



MD
MARDAG

INNOVATIVE SOLUTIONS FOR THE
NEW ZEALAND ELECTRICAL INDUSTRY

PRODUCT GUIDE 2023

ABOUT US

MARDAG Holdings Limited is 100% New Zealand owned and operated and provides innovative solutions for the electrical industry.

The company was established in 1988 when Anton van Rijssel and Marcus van Rijssel merged their electrical contracting companies to form MARDAG Holdings Limited and commenced trading as MDH Control Systems.

A few years later, Anton met with Hensel, a German manufacturer, to negotiate an exclusive agreement for the New Zealand market. The technical advantages of the Hensel product range were clearly evident and as a result, an exclusive trading agreement was signed in 1992. This contract proved to be the first of many agreements with leading global manufacturers.

Today, MARDAG exclusively represents over 35 European manufacturers in New Zealand and is focused on those that specialise in their respective fields. MARDAG is confident in the quality of its product range and ability to provide the industry with cost effective and innovative electrical solutions.

"Our greatest advantage is the direct knowledge and experience of our people. We understand the technical needs of kiwi electricians and we use this to help select and import only the best products. Knowing the day-to-day challenges and requirements of installation and maintenance, we're able to help our customers find solutions they won't find elsewhere."

LEADING EUROPEAN MANUFACTURERS

By partnering with leaders in electrical manufacturing, we've searched the market to bring you exclusive electrical products you can trust.



ACI

Automation Components, Inc. (ACI) began as a small company in 1991, but has grown by leaps and bounds over the years, establishing itself as an industry leader of quality automation sensors. ACI creates, manufactures, and distributes building automation sensors for the heating, ventilation, and air conditioning (HVAC) Industry. ACI's product lines include Temperature Sensors, Relative Humidity Sensors, Current Sensors, Pressure Sensors, Gas Sensors and Wireless Sensors.



BLOCK

Block Transformatoren-Elektronik company is the largest manufacturer of line filters, power supplies and transformers in Germany with customers such as Siemens, Schneider, Sew Eurodrive and ABB. Block is the market leader in the area of Harmonic Reduction Filters and DC Power Supplies.



COMATEC SNC

Comatec produce Energy Conversion Systems and is the world's leading manufacturer of DIN format DC Power Supplies. Comatec was founded in 1988 and produces transformers and power supplies for Din-rail mounting as well as the international patented miniature power supplies "OTTO" and "ORBIT" for mounting in trunking and flush boxes. Comatec also has a unique range of power supplies for DIN rail mounting with integrated battery and uninterruptible DC power supplies named MODUSV. All their products are manufactured in Italy.



CONTA-CLIP

Conta-Clip is a German manufacturer of Terminals, Relays, Electronic Components and Marking Systems. Their terminals are of superior quality and have an excellent price structure. We carry a huge range of 1,500 different terminal parts in stock here in New Zealand. We supply custom printed terminal, device and cable markers at the most competitive rates in New Zealand.



FLEXA

FLEXA claim to be the world's largest manufacturer of flexible conduit and accessories and with a quality standard second to none. With their product range they have secured some of the largest projects in the world. FLEXA has products that are suitable for temperatures between -60°C up to +230°C, classified up to IP 69K, resistant to solvents, liquid-tight, or with a silicone cover. No matter which protective conduit system you require, FLEXA will certainly have a solution.



FTG

FTG are part of an international group combining tradition and a down-to-earth attitude with high standards of innovation and quality. FTG has been part of the Amphenol Group, which was founded in 1932, since July 2016. The company is one of the world's largest manufacturers of connectors and has a diversified presence in rapidly growing markets which include automotive industry, broadband communication, aviation industry, industrial electrical and the switchboard building sector. FTG produce a range of pan assemblies, distribution terminal blocks and bus-bar connections and accessories. In 2019 FTG purchased the electrical installation material division from WERIT. With this acquisition, FTG in Triberg consolidates the product range of electrotechnical terminals.



GLW

GLW products are produced in Kisslegg in Germany and sold exclusively through their distribution partners. Through their in-house toolmaking and injection moulding department they are able to offer high quality products. With a number of tools and machines to complement their range of Bootlace Ferrules, GLW are a great addition to the products we are able to offer our customers.



GROTHE

Grothe was established in 1892 and manufactures signalling products for domestic, commercial and industrial installations. Their wide-ranging assortment of products include chimes, push buttons, safety transformers, bell transformers and signalization products for industry, public buildings, schools and much more.



HENSEL

Founded in 1931, Hensel represents a company group which is active worldwide and specialises in the manufacture of innovative electrical installation and power distribution systems for facility equipment of buildings. They have an extensive range of leading products, including waterproof and fire rated cable junction boxes, enclosures, distribution boards and switchboards.



ISKRA

Iskra is a globally recognized provider of intelligent Industrial solutions and cutting-edge electromechanical products. Designed and manufactured in Slovenia, Iskra Installation contactors are particularly suitable for switching, lighting, heat pumps, air-conditioning, and similar electrical equipment, and are also suitable for switching single-phase and three-phase electric motors. They excel in silent operation and are suitable for a variety of applications.



MURRPLASTIK

Murrplastik is an international company with a global network of distributors who provide innovative solutions for your cable management and labelling needs. Their high-tech plastic products can be found in just about every industrial sector, ranging from the rail and automotive industry through toolmaking and mechanical engineering to electrical and medical engineering.



OBO BETTERMANN

Sporting more than 30,000 products, OBO Bettermann is one of the largest privately owned manufacturers in Europe and has the largest global product range in overvoltage protection systems. They manufacture to the latest international standards and have their own in-house lightning generator. Check out their extensive range of connection and fastening products and well as cable duct and trunking systems.



RAYLEIGH

Established in 1964 Rayleigh have become one of the leading manufacturers and suppliers of process control instrumentation equipment in the UK. They are manufacturers and stockists of an extensive range of energy monitoring products including current transformers, kilowatt hour (kWh) meters, multifunction power monitors, measuring transducers, data loggers, communication interfaces and software. Their instrumentation products include analogue and digital square Din switchboard instruments.



SENECA

Seneca is the leading Italian manufacturer of Signal Conditioning and Modbus I/O products. Their innovative approach gives elegant solutions to all process interfacing and data acquisition challenges. Seneca has built a reputation of offering accurate and easy to use products, including Signal Converters, Barriers & Displays



SHENLER

Shenler Electric (Zhejiang) Co. Ltd. was founded in 1985. Shenler is a leading industrial relay manufacturer and is one of the Top10 Relay brands. Shenler's focus on R & D, manufacturing and sales in the industrial relay sector, provide more than 50 series, with more than 1000 specifications of industry leading relay and socket products. From product development, parts production, mould development and injection moulding through to the final assembly steps, Shenler maintains a keen focus on quality production and continuous improvement.



SPS

Flexible and Rigid Busbar Systems for switchgear construction. Their main product groups are the Isoflexx laminated busbars and the very popular Ultraflexx braided flex type busbars with patented press-welded solid ends.



TELE

With over 40 years' experience, TELE is a leading European producer of timers and sensing and monitoring relays. Having completely automated its manufacturing plants, TELE has created a competitive edge in product quality and lower costs and now supplies many leading companies such as Phoenix, ABB, Rockwell and Schrack.



VEMER

Italy's largest producer of innovative Temperature, Measurement & Control Products. Vemer also has a very large range of Energy Meters, Network Analysers, Voltage/Current/Frequency Digital Display Meters, Time Switches, Current Transformers, Thermostats, Pressure, Temperature & Refrigeration Controllers and a range of Insulators.



WALTHER

Plugs, Sockets and Accessories - Walther-Werke is Germany's largest manufacturer of both Heavy-Duty Multipole Connectors called PROCON and the IEC type Plug and Socket System called CEEtyp. Special stage and entertainment versions of the Procon Heavy Duty Multipole Connectors including steel levers are available from stock. Also available are container plugs and sockets. We carry one of New Zealand's largest range of Multipole Connectors in stock. Walther are the only plug and socket manufacturer that still manufactures all their products in Germany.



WERIT

WERIT's electrical installation material division is now owned and operated by FTG. Please refer to FTG for all WERIT products



WISKA

Wiska is another German manufacturer we represent with an interesting product range in Glands, EX Glands and Enclosures as well as a range of Marine Lighting, Electrical and CCTV Systems. Innovative new products include such items as their submersible cable junction boxes (15 metres for 170 hours) and a nickel plated brass spiral gland.



ZOLLER + FRÖHLICH

Bootlace Ferrules – the company Zoller & Fröhlich (Z+F) is the world's largest manufacturer of Bootlace Ferrules. Even though our bootlace ferrules are manufactured in Germany they are still more cost effective than the other lower quality products sold here in New Zealand. This is partially due to the worldwide patent held by Z+F on the double ferrule for which they still charge royalties. The quality is superior which you can see at a glance.

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ACI

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AUTOMATION SENSORS

ACI's product lines include Temperature Sensors, Relative Humidity Sensors, Current Sensors, Pressure Sensors, Gas Sensors and Wireless Sensors.

CURRENT SWITCHES



A/CSX

Current Switch - DIN Rail Mount or Direct Mount 250Amp Input - Fixed Trip Point of 1 Amps & 1 Output Switch rated at 0.15A/300VAC&DC

A/MCS

Current Switch - Direct Mount 150Amp Input with Fixed Trip Point of 0.2 Amps & 1 Output Switch rated at 0.5A/36VAC&DC

A/MCS-A

Current Switch - Direct Mount 150Amp Input with ADJUSTABLE Trip Point and N/O Contact - 1 Amp 36VAC/DC

A/CS2

Current Switch - DIN Rail Mount or Direct Mount 250Amp Input with Fixed Trip Point of 0.5 Amps & 1 Output Switch rated at 0.35A/200VAC&DC

TRANSDUCERS



A/CTE-50

Current Transducer - Direct & DIN Rail Mounting 50 Amp Input with 0-5VDC Output

A/CTV-250

Current Transducer - Direct & DIN Rail Mounting 250 Amp Input - 0-10VDC Output

A/SCTV2-250

Current Transducer - Direct & DIN Rail Mounting 250 Amp Input - 0-10VDC Output

A/WPR2-300-10

Wet/Wet Pressure Transducer 0-300 psi with 20 inch wiring harness

SENSORS



A/CP-D-4"-PB

Duct Temperature Sensor

A/RH5-CP-O

Outdoor Temp/Humidity Sensor

A/TT100-D-8"-4-PB

DUCT Mounted PT100 Sensor with 4-20mA Output - temperature range -20C to +50C

A/TT100-(-20 /+50C)-R-4

Wall Mounted PT100 Sensor with 4-20mA Output - temperature range -20C to +50C

A/CP-R2

Room Temperature Sensor

A/CO2-R2

Room CO2 Sensor

A/CO2-R2-CP

Room Temperature and CO2 Sensor - Outputs are 0-5V & NTC10kOhm



Order Code in Bold:
Order Code in light:

Stocked Item
Subject to availability

BLOCK

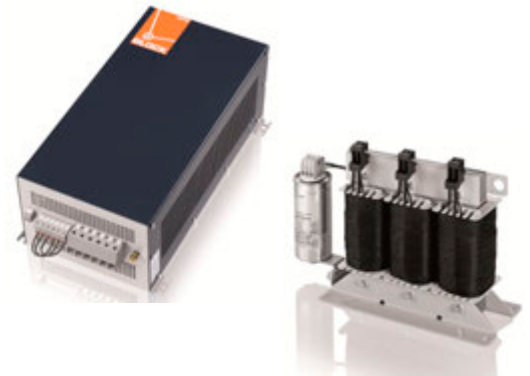
Block Transformatoren-Elektronik company is the largest manufacturer of line filters, power supplies and transformers in Germany with customers such as Siemens, Schneider, Sew Eurodrive and ABB. Block is the market leader in the area of Harmonic Reduction Filters and DC Power Supplies.

PASSIVE HARMONIC FILTERS

PASSIVE HARMONIC FILTERS

Block manufacture a large range of Passive Harmonic Filters. The open frame HF1K range offers 8% THD-I and the HFM-FB series has a typical 7% THD-I at rated load. They have the following advantages:

1. They are a proven technology developed and perfected many years ago so are extremely reliable
2. They are very stable when overloaded or subjected to short circuit fault currents & surge voltages
3. They eliminate all harmonics over a specific frequency rather than shifting lower order harmonics to higher order harmonics
4. They are very cost effective



HF1K HARMONIC FILTERS



HF1K7-400	Passive Harmonic Filter - 5.5kw - 3x10A
HF1K13-400	Passive Harmonic Filter - 11kW - 3x19A
HF1K18-400	Passive Harmonic Filter - 15kw - 3x26A
HF1K24-400	Passive Harmonic Filter - 20kW - 3x35A
HF1K30-400	Passive Harmonic Filter - 26kW - 3x43A
HF1K50-400	Passive Harmonic Filter - 45kW - 3x73A
HF1K70-400	Passive Harmonic Filter - 63kw - 3x101A
HF1K100-400	Passive Harmonic Filter - 90kw - 3x144A

HFM-FB SERIES HARMONIC FILTERS



HFM-FB-7-400	Passive Harmonic Filter, 380-440VAC, 5kW, 3x10A
HFM-FB-13-400	Passive Harmonic Filter, 380-440VAC, 7.5kW, 3x19A
HFM-FB-18-400	Passive Harmonic Filter, 380-440VAC, 11kW, 3x26A
HFM-FB-24-400	Passive Harmonic Filter, 380-440VAC, 15kW & 18.5kW, 3x35A
HFM-FB-30-400	Passive Harmonic Filter, 380-440VAC, 22kW, 3x43A
HFM-FB-50-400	Passive Harmonic Filter, 380-440VAC, 30kW & 37kW, 3x72A
HFM-FB-70-400	Passive Harmonic Filter, 380-440VAC, 55kW, 3x101A
HFM-FB-100-400	Passive Harmonic Filter, 380-440VAC, 75kW, 3x144A
HFM-FB-125-400	Passive Harmonic Filter, 380-440VAC, 90kW, 3x180A
HFM-FB-150-400	Passive Harmonic Filter, 380-440VAC, 110kW, 3x217A
HFM-FB-200-400	Passive Harmonic Filter, 380-440VAC, 160kW, 3x289A
HFM-FB-225-400	Passive Harmonic Filter, 380-440VAC, 180kW, 3x325A
HFM-FB-255-400	Passive Harmonic Filter, 380-420VAC, 200kW, 3x370A
HFM-FB-300-400	Passive Harmonic Filter, 380-420VAC, 250kW, 3x433A

LINE REACTORS

NKE SERIES SINGLE PHASE LINE REACTORS



NKE4/7,33	Line Reactor - 230VAC, 4 Amps, 7.330mH Inductivity
NKE6/4,88	Line Reactor - 230VAC, 6 Amps, 4.880mH Inductivity
NKE10/2,93	Line Reactor - 230VAC, 10 Amps, 2.930mH Inductivity
NKE16/1,83	Line Reactor - 230VAC, 16 Amps, 1.830mH Inductivity
NKE20/1,47	Line Reactor - 230VAC, 20 Amps, 1.470mH Inductivity
NKE25/1,17	Line Reactor - 230VAC, 25 Amps, 1.170mH Inductivity

LR3-40 SERIES 3 PHASE LINE REACTORS



LR3-40-5/8	Line Reactor - 3x690VAC, 8 Amps, 5mH Inductivity
LR3-40-4/16	Line Reactor - 3x690VAC, 16 Amps, 1.84mH Inductivity
LR3-40-4/20	Line Reactor - 3x690VAC, 20 Amps, 1.5mH Inductivity
LR3-40-4/25	Line Reactor - 3x690VAC, 25 Amps, 1.2mH Inductivity
LR3-40-4/30	Line Reactor - 3x690VAC, 30 Amps, 0.98mH Inductivity
LR3-40-4/40	Line Reactor - 3x690VAC, 40 Amps, 0.74mH Inductivity
LR3-40-4/45	Line Reactor - 3x690VAC, 45 Amps, 0.490mH Inductivity
LR3-40-4/50	Line Reactor - 3x690VAC, 50 Amps, 0.590mH Inductivity
LR3-40-4/63	Line Reactor - 3x690VAC, 63 Amps, 0.470mH Inductivity
LR3-40-4/70	Line Reactor - 3x690VAC, 70 Amps, 0.420mH Inductivity
LR3-40-4/80	Line Reactor - 3x690VAC, 80 Amps, 0.370mH Inductivity

LR3A-40 SERIES 3 PHASE LINE REACTORS - ALUMINIUM WINDINGS



LR3A-40-4/90	Line Reactor - 3x690VAC, 90 Amps, 0.330mH Inductivity
LR3A-40-4/100	Line Reactor - 3x690VAC, 100 Amps, 0.290mH Inductivity
LR3A-40-4/115	Line Reactor - 3x690VAC, 115 Amps, 0.250mH Inductivity
LR3A-40-4/125	Line Reactor - 3x690VAC, 125 Amps, 0.230mH Inductivity
LR3A-40-4/160	Line Reactor - 3x690VAC, 160 Amps, 0.180mH Inductivity
LR3A-40-4/180	Line Reactor - 3x690VAC, 180 Amps, 0.123mH Inductivity
LR3A-40-4/200	Line Reactor - 3x690VAC, 200 Amps, 0.150mH Inductivity
LR3A-40-4/250	Line Reactor - 3x690VAC, 250 Amps, 0.120mH Inductivity
LR3A-40-4/300	Line Reactor - 3x690VAC, 300 Amps, 0.089mH Inductivity
LR3A-40-4/400	Line Reactor - 3x690VAC, 400 Amps, 0.074mH Inductivity
LR3A-40-4/500	Line Reactor - 3x690VAC, 500 Amps, 0.059mH Inductivity
LR3A-40-4/630	Line Reactor - 3x690VAC, 630 Amps, 0.047mH Inductivity
LR3A-40-4/710	Line Reactor - 3x690VAC, 710 Amps, 0.042mH Inductivity
LR3A-40-4/800	Line Reactor - 3x690VAC, 800 Amps, 0.037mH Inductivity
LR3A-40-4/1000	Line Reactor - 3x690VAC, 1000 Amps, 0.030mH Inductivity
LR3A-40-4/1200	Line Reactor - 3x690VAC, 1200 Amps, 0.025mH Inductivity
LR3A-40-4/1400	Line Reactor - 3x690VAC, 1400 Amps, 0.021mH Inductivity
LR3A-40-4/1600	Line Reactor - 3x690VAC, 1600 Amps, 0.019mH Inductivity

LINE FILTERS

HFE 104 SERIES LINE FILTERS



- HFE 104-230/3** Single Phase Line Filter with Low Leakage Current, 3 Amp
- HFE 104-230/10** Single Phase Line Filter with Low Leakage Current, 10 Amp
- HFE 104-230/20** Single Phase Line Filter with Low Leakage Current, 20 Amp
- HFE 104-230/65** Single Phase Line Filter with Low Leakage Current, 65 Amp

HFE 165 SERIES LINE FILTERS



- HFE 156-230/10** Single Phase Line Filter with Low Leakage Current, DIN Mount, 10 Amp
- HFE 156-230/16** Single Phase Line Filter with Low Leakage Current, DIN Mount, 16 Amp

HLE 110 SERIES LINE FILTERS



- HLE 110-230/20** Single Phase Line Filter for Enhanced Requirements, 20 Amp
- HLE 110-230/25** Single Phase Line Filter for Enhanced Requirements, 25 Amp
- HLE 110-230/30** Single Phase Line Filter for Enhanced Requirements, 30 Amp
- HLE 110-230/42** Single Phase Line Filter for Enhanced Requirements, 42 Amp
- HLE 110-230/55** Single Phase Line Filter for Enhanced Requirements, 55 Amp

HLD 110 THREE PHASE LINE FILTERS



- HLD110-500/42** Line Filter for Enhanced Requirements, 0-520VAC, 3x42 Amp
- HLD110-500/55** Line Filter for Enhanced Requirements, 0-520VAC, 3x55 Amp
- HLD110-500/75** Line Filter for Enhanced Requirements, 0-520VAC, 3x75 Amp
- HLD110-500/100** Line Filter for Enhanced Requirements, 0-520VAC, 3x100 Amp
- HLD110-500/130** Line Filter for Enhanced Requirements, 0-520VAC, 3x130 Amp
- HLD110-500/180** Line Filter for Enhanced Requirements, 0-520VAC, 3x180 Amp
- HLD110-500/250** Line Filter for Enhanced Requirements, 0-520VAC, 3x250 Amp

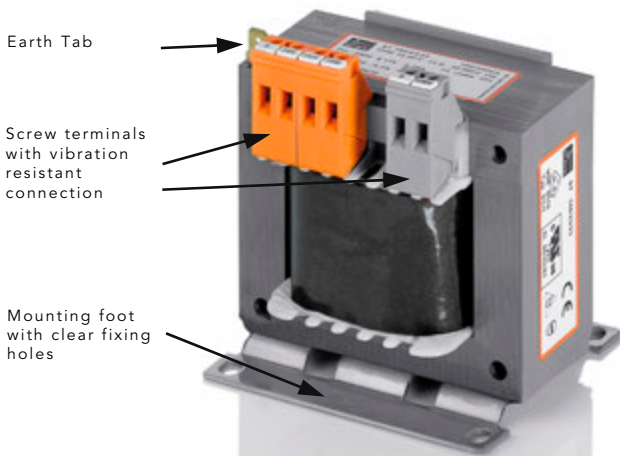
HLD 103 THREE PHASE LINE FILTERS



- HLD103-500/270** Line Filter for Enhanced Requirements, 0-520VAC, 3x270 Amp
- HLD103-500/400** Line Filter for Enhanced Requirements, 0-520VAC, 3x400 Amp
- HLD103-500/750** Line Filter for Enhanced Requirements, 0-520VAC, 3x750 Amp
- HLD103-500/1000** Line Filter for Enhanced Requirements, 0-520VAC, 3x1000 Amp
- HLD103-500/1800** Line Filter for Enhanced Requirements, 0-520VAC, 3x1800 Amp

TRANSFORMERS

TECHNICAL INFORMATION



ST SERIES TRANSFORMERS

Control & Safety Isolating Transformer Series benefits:

Transformer with low inrush current. Primary Side +5% tappings for voltage adjustment. Very good corrosion protection and low noise thanks to BLOCKIMPEX vacuum impregnation.

Applications:

1. Control transformer for electrical isolation of the input and output connections.
2. Safety Isolating Transformer for the safe electrical isolation of the input and output connections.

ST TRANSFORMERS - 230VAC/24VAC



ST20/23/24	Control/Isolating Transformer	230VAC Input	24VAC Output	20VA
ST63/23/24	Control/Isolating Transformer	230VAC Input	24VAC Output	63VA
ST100/23/24	Control/Isolating Transformer	230VAC Input	24VAC Output	100VA
ST160/23/24	Control/Isolating Transformer	230VAC Input	24VAC Output	160VA
ST250/23/24	Control/Isolating Transformer	230VAC Input	24VAC Output	250VA
ST320/23/24	Control/Isolating Transformer	230VAC Input	24VAC Output	320VA
ST400/23/24	Control/Isolating Transformer	230VAC Input	24VAC Output	400VA
ST500/23/24	Control/Isolating Transformer	230VAC Input	24VAC Output	500VA

ST TRANSFORMERS - 230VAC/12VAC

ST20/23/12	Control/Isolating Transformer	230VAC Input	12VAC Output	20VA
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ST TRANSFORMERS - 400VAC/24VAC

ST20/4/24	Control/Isolating Transformer	400VAC Input	24VAC Output	20VA
ST63/4/24	Control/Isolating Transformer	400VAC Input	24VAC Output	63VA

TRANSFORMERS

ST TRANSFORMERS - 400VAC/230VAC



ST63/4/23	Control/Isolating Transformer	400VAC Input	230VAC Output	63VA
ST100/4/23	Control/Isolating Transformer	400VAC Input	230VAC Output	100VA
ST160/4/23	Control/Isolating Transformer	400VAC Input	230VAC Output	160VA
ST160/44/23	Control/Isolating Transformer	440VAC Input	230VAC Output	160VA
ST250/4/23	Control/Isolating Transformer	400VAC Input	230VAC Output	250VA
ST320/4/23	Control/Isolating Transformer	400VAC Input	230VAC Output	320VA

ST TRANSFORMERS - 110VAC/24VAC

ST63/11/24	Control/Isolating Transformer	110VAC Input	24VAC Output	63VA
ST100/11/24	Control/Isolating Transformer	110VAC Input	24VAC Output	100VA

DIN RAIL MOUNTING BASE FOR ST TRANSFORMERS



UB66/23	DIN Rail Mounting Base for Block ST20/23/24
UB78/27.5	DIN Rail Mounting Base for Block ST63/23/24
UB84/43.5	DIN Rail Mounting Base for Block ST100/23/24
UB96/45.7	DIN Rail Mounting Base for Block ST160/23/25
UB96/59.7	DIN Rail Mounting Base for Block ST250/23/24

Rigid Aluminium Profile with Integrated Steel Spring for easy mounting of ST Transformers

STE TRANSFORMERS - 230VAC/24VAC & 400VAC/230VAC



STE100/23/24	Transformer, Input 230VAC, Output 24VAC, DIN Mounting, 100VA
STE630/4/23	Transformer, Input 400VAC, Output 230VAC, 630VA
STE1000/4/23	Transformer, Input 400VAC, Output 230VAC, 1000VA

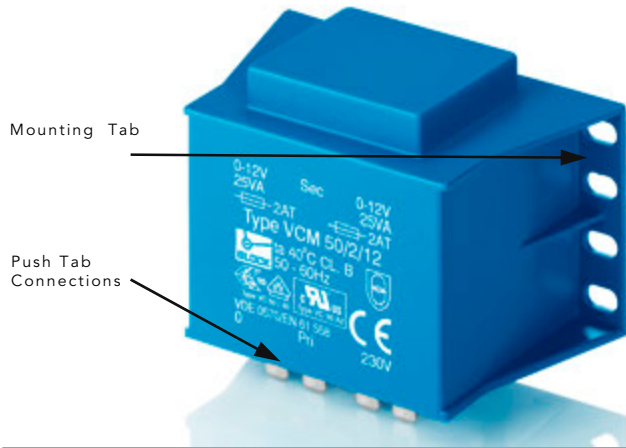
STEUX TRANSFORMERS - 400/230VAC - 230VAC & 24VAC

STEUX100/23/24 Input 400&230VAC, Output 230VAC and 24VAC, DIN Mounting, 100VA



VCM TRANSFORMERS

TECHNICAL INFORMATION



VCM SERIES TRANSFORMERS

Control & Safety Isolating Transformer Series benefits:

Permanent corrosion protection, high insulation value and maximum electrical reliability due to XtraDensiFill resin encapsulation with self-extinguishing potting material. Mounting with tabs on the housing. Push on tab type connections with double output voltage for series or parallel connection. Very Compact Design.

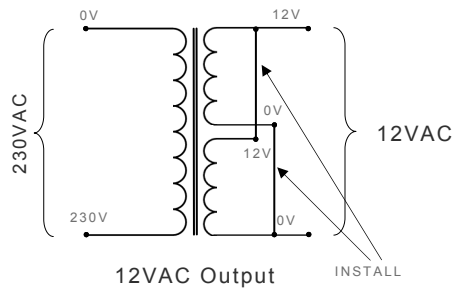
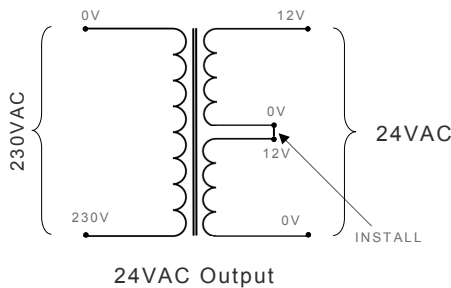
Applications:

Control Transformer for electrical isolation of the input and output connections. Safety Isolating Transformer for the safe electrical isolation of the input and output connections.

VCM TRANSFORMERS - 230VAC-2X12/24VAC

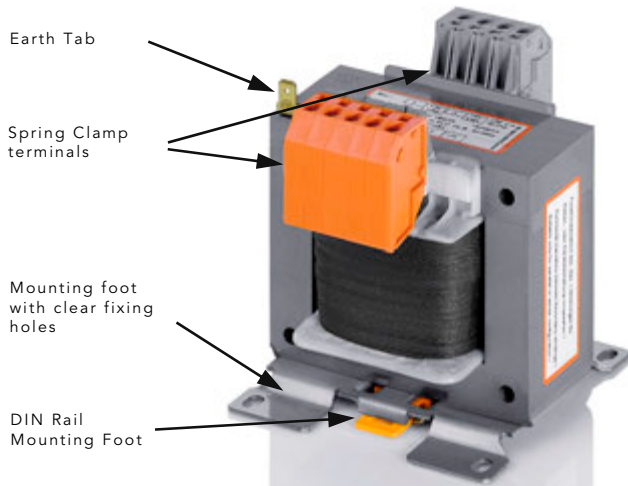
VCM25/2/12	Control/Isolating Transformer	230VAC Input	2x12/24VAC	25VA
VCM50/2/12	Control/Isolating Transformer	230VAC Input	2x12/24VAC	50VA

VCM TRANSFORMER CONNECTION GUIDE



STEU TRANSFORMERS

TECHNICAL INFORMATION



STEU SERIES TRANSFORMERS

Control & Safety Isolating Transformer Series benefits:

Dual Input Voltages of 230 or 400VAC. Transformer with low inrush current. Primary Side +15V tappings for voltage adjustment. Very good corrosion protection and low noise thanks to BLOCKIMPEX vacuum impregnation. Spring Clamp Terminals and integrated Din Rail Mounting Foot for sizes up to 250VA.

Applications:

Control Transformer & Safety Isolating Transformers for the safe electrical isolation of the input and output connections.

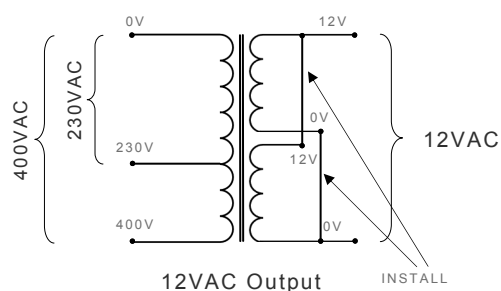
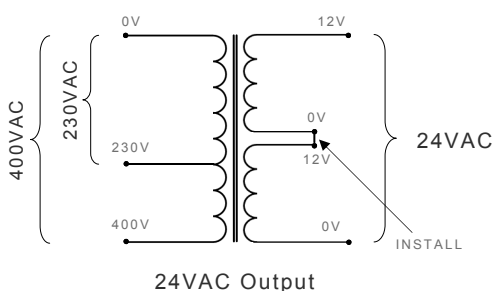
STEU TRANSFORMERS - 400/230VAC-2X12/24VAC



STEU20/24*	Control/Isolating Transformer	400/230VAC	2x12/24VAC	20VA
STEU63/24*	Control/Isolating Transformer	400/230VAC	2x12/24VAC	63VA
STEU100/24*	Control/Isolating Transformer	400/230VAC	2x12/24VAC	100VA
STEU160/24*	Control/Isolating Transformer	400/230VAC	2x12/24VAC	160VA
STEU250/24*	Control/Isolating Transformer	400/230VAC	2x12/24VAC	250VA
STEU320/24	Control/Isolating Transformer	400/230VAC	2x12/24VAC	320VA
STEU400/24	Control/Isolating Transformer	400/230VAC	2x12/24VAC	400VA
STEU500/24	Control/Isolating Transformer	400/230VAC	2x12/24VAC	500VA
STEU630/24	Control/Isolating Transformer	400/230VAC	2x12/24VAC	630VA
STEU800/24	Control/Isolating Transformer	400/230VAC	2x12/24VAC	800VA
STEU1000/24	Control/Isolating Transformer	400/230VAC	2x12/24VAC	1000VA

*Transformer supplied with integrated DIN Rail Mounting Foot

STEU TRANSFORMER CONNECTION GUIDE



Voltage adjustment possible:

To lower output voltage connect the supply to +15V and 230V (or 400V) and to raise the output voltage connect the supply to -15V and 230V (or 400V).

STEU TRANSFORMERS

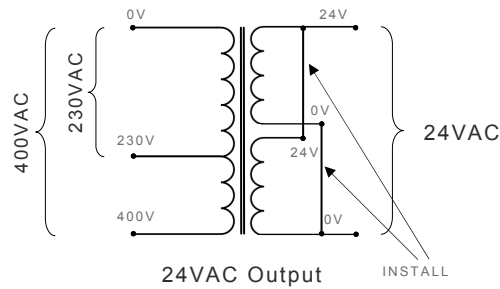
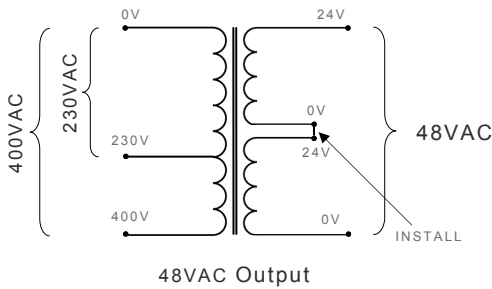
STEU TRANSFORMERS - 400/230VAC-2X24/48VAC



STEU100/48*	Control/Isolating Transformer	400/230VAC	2x24/48VAC	100VA
STEU160/48*	Control/Isolating Transformer	400/230VAC	2x24/48VAC	160VA
STEU250/48*	Control/Isolating Transformer	400/230VAC	2x24/48VAC	250VA
STEU320/48	Control/Isolating Transformer	400/230VAC	2x24/48VAC	320VA
STEU800/48	Control/Isolating Transformer	400/230VAC	2x24/48VAC	800VA
STEU1000/48	Control/Isolating Transformer	400/230VAC	2x24/48VAC	1000VA
STEU1600/48	Control/Isolating Transformer	400/230VAC	2x24/48VAC	1600VA

*Transformer supplied with integrated DIN Rail Mounting Foot

STEU TRANSFORMER CONNECTION GUIDE



Voltage adjustment possible:

To lower output voltage connect the supply to +15V and 230V (or 400V) and to raise the output voltage connect the supply to -15V and 230V (or 400V).

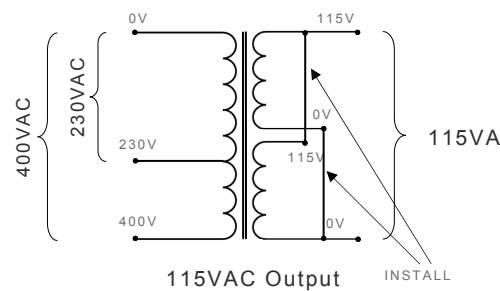
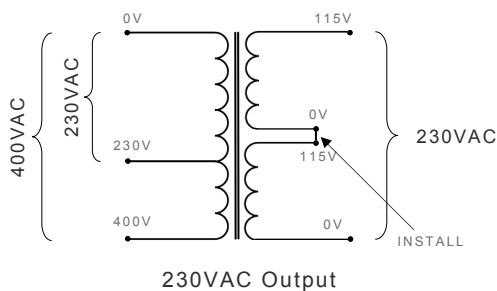
STEU TRANSFORMERS - 400/230VAC-2X115/230VAC



STEU20/23*	Control/Isolating Transformer	400/230VAC	2x115/230VAC	20VA
STEU63/23*	Control/Isolating Transformer	400/230VAC	2x115/230VAC	63VA
STEU100/23*	Control/Isolating Transformer	400/230VAC	2x115/230VAC	100VA
STEU160/23*	Control/Isolating Transformer	400/230VAC	2x115/230VAC	160VA
STEU250/23*	Control/Isolating Transformer	400/230VAC	2x115/230VAC	250VA
STEU320/23	Control/Isolating Transformer	400/230VAC	2x115/230VAC	320VA
STEU400/23	Control/Isolating Transformer	400/230VAC	2x115/230VAC	400VA
STEU500/23	Control/Isolating Transformer	400/230VAC	2x115/230VAC	500VA
STEU630/23	Control/Isolating Transformer	400/230VAC	2x115/230VAC	630VA
STEU800/23	Control/Isolating Transformer	400/230VAC	2x115/230VAC	800VA
STEU1000/23	Control/Isolating Transformer	400/230VAC	2x115/230VAC	1000VA
STEU1600/23	Control/Isolating Transformer	400/230VAC	2x115/230VAC	1600VA

*Transformer supplied with integrated DIN Rail Mounting Foot

STEU TRANSFORMER CONNECTION GUIDE

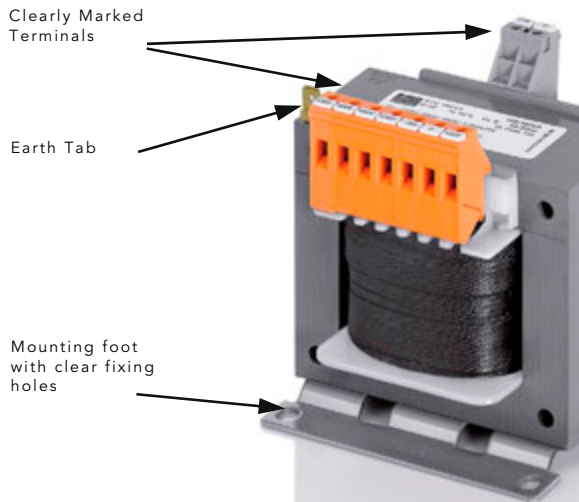


Voltage adjustment possible:

To lower output voltage connect the supply to +15V and 230V (or 400V) and to raise the output voltage connect the supply to -15V and 230V (or 400V).

STU & USTE TRANSFORMERS

TECHNICAL INFORMATION



STU & USTE SERIES TRANSFORMERS

Control & Safety Isolating Transformer Series benefits:

Multi Tap Input Voltages of 210 to 540VAC for STU and 208 to 600VAC for USTE range. Transformers with low inrush current. Very good corrosion protection and low noise thanks to BLOCKIMPEX vacuum impregnation. STU Transformers have clearly Marked Screw Terminals. USTE Transformers have Spring Clamp Terminals and Connection Guide on the side of the Transformer. Easy to access oval Mounting Holes for quick and simple fixing.

Control & Safety Isolating Transformer for the safe electrical isolation of the input and output connections.

STU TRANSFORMERS - 210-540VAC INPUT



STU63/2X115	Transformer	210-540VAC	2x115/230VAC Output	63VA
STU100/24	Transformer	210-540VAC	24VAC Output	100VA
STU100/2X115	Transformer	210-540VAC	2x115/230VAC Output	100VA
STU160/24	Transformer	210-540VAC	24VAC Output	160VA
STU250/24	Transformer	210-540VAC	24VAC Output	250VA
STU250/2X115	Transformer	210-540VAC	2x115/230VAC Output	250VA
STU400/2X115	Transformer	210-540VAC	2x115/230VAC Output	400VA
STU500/2X115	Transformer	210-540VAC	2x115/230VAC Output	500VA
STU2000/2X115	Transformer	210-540VAC	2x115/230VAC Output	2000VA

USTE TRANSFORMERS - 208-600VAC INPUT



USTE100/2x12	Transformer	208-600VAC	2x12/24VAC Output	100VA
USTE100/2x115	Transformer	208-600VAC	2x115/230VAC Output	100VA
USTE250/2x12	Transformer	208-600VAC	2x12/24VAC Output	250VA
USTE250/2x115	Transformer	208-600VAC	2x115/230VAC Output	250VA
USTE400/2x115	Transformer	208-600VAC	2x115/230VAC Output	400VA
USTE1000/2x115	Transformer	208-600VAC	2x115/230VAC Output	1000VA
USTE2500/2x115	Transformer	208-600VAC	2x115/230VAC Output	2500VA
USTE3200/2x115	Transformer	208-600VAC	2x115/230VAC Output	3200VA

TT & AT3 TRANSFORMERS

TT1 TRANSFORMERS - SINGLE PHASE



TT1 1-23-24	Control/Isolating Transformer	Input 230VAC	Out 24VAC	1kVA
TT1 1-4-23	Control/Isolating Transformer	Input 400VAC	Out 2x115VAC	1kVA
TT1 2,5-23-24	Control/Isolating Transformer	Input 230VAC	Out 24VAC	2.5kVA
TT1 2,5-4-23	Control/Isolating Transformer	Input 400VAC	Out 2x115VAC	2.5kVA
TT1 5-4-23	Control/Isolating Transformer	Input 400VAC	Out 2x115VAC	5kVA
TT1 10-4-23	Control/Isolating Transformer	Input 400VAC	Out 2x115VAC	10kVA
TT1 20-4-23	Control/Isolating Transformer	Input 400VAC	Out 2x115VAC	20kVA
TT1 25-4-23	Control/Isolating Transformer	Input 400VAC	Out 2x115VAC	25kVA

TT3 TRANSFORMERS - THREE PHASE



TT3-A010-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	10kVA
TT3-A020-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	20kVA
TT3-A025-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	25kVA
TT3-A030-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	30kVA
TT3-A040-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	40kVA
TT3-A050-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	50kVA
TT3-A063-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	63kVA
TT3-A080-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	80kVA
TT3-A100-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	100kVA
TT3-A125-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	125kVA
TT3-A160-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	160kVA
TT3-A200-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	200kVA
TT3-A250-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	250kVA
TT3-A315-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	315kVA
TT3-A400-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	400kVA
TT3-A500-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	500kVA
TT3-A630-4040-0	Control/Isolating Transformer	Input 400VAC	Output 400VAC	630kVA

AT3 AUTOTRANSFORMERS - THREE PHASE



AT3-10-38/42-4	Autotransformer	Input 3x380/400VAC	Output 3x400VAC	10kVA
AT3-25-38/42-4	Autotransformer	Input 3x380/400VAC	Output 3x400VAC	25kVA
AT3-45-38/42-4	Autotransformer	Input 3x380/400VAC	Output 3x400VAC	45kVA
AT3-70-38/42-4	Autotransformer	Input 3x380/400VAC	Output 3x400VAC	70kVA
AT3-110-38/42-4	Autotransformer	Input 3x380/400VAC	Output 3x400VAC	110kVA
AT3-160-38/42-4	Autotransformer	Input 3x380/400VAC	Output 3x400VAC	160kVA
AT3-250-38/42-4	Autotransformer	Input 3x380/400VAC	Output 3x400VAC	250kVA



DC POWER SUPPLIES

TECHNICAL INFORMATION



POWERSVISION POWER SUPPLIES

The Power Vision product line is the leading power supply system in the world in terms of its technical advantages.

All modules are slim, feature communication ports and boast the highest maximum power reserves for optimum system availability.

PVSE 230 SERIES DC POWER SUPPLIES



PVSE 230/12-6	PowerVision DC Power Supply	230VAC Input	12VDC/6Amp Output
PVSE 230/12-10	PowerVision DC Power Supply	230VAC Input	12VDC/10Amp Output
PVSE 230/24-5	PowerVision DC Power Supply	230VAC Input	24VDC/5Amp Output
PVSE 230/24-10	PowerVision DC Power Supply	230VAC Input	24VDC/10Amp Output
PVSE 230/24-20	PowerVision DC Power Supply	230VAC Input	24VDC/20Amp Output
PVSE 230/48-5	PowerVision DC Power Supply	230VAC Input	48VDC/5Amp Output

PVSE 400 SERIES DC POWER SUPPLIES



PVSE 400/24-10	PowerVision DC	400VAC Input	24VDC/10Amp Output
PVSE 400/24-20	PowerVision DC	400VAC Input	24VDC/20Amp Output
PVSE 400/24-40	PowerVision DC	400VAC Input	24VDC/40Amp Output

PVSB 400 SERIES DC POWER SUPPLIES



PVSB 400/24-10	PowerVision DC P/S with Display	400VAC Input	24VDC/10Amp Output
PVSB 400/24-20	PowerVision DC P/S with Display	400VAC Input	24VDC/20Amp Output
PVSB 400/24-40	PowerVision DC P/S with Display	400VAC Input	24VDC/40Amp Output

PVSL 400 SERIES DC POWER SUPPLIES



PVSL 400/24-20	PowerVision DC Power Supply with 400VAC Input	24VDC/10Amp Output
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Display & Monitoring

DC POWER SUPPLIES

24VDC UPS TECHNICAL INFORMATION



24VDC UPS

The PowerVision DC Power Supply range offers dedicated 24VDC UPS modules.

Also on offer are Battery modules for Panasonic or Yuasa Batteries. Reliable battery management is achieved through permanent data exchange between UPS & Battery module.

In this way battery life is extended and a reliable signal is given as soon as the batteries need replacing.

24VDC UPS



PVUA 24/24-10	PowerVision 24Vdc UPS with Battery Management System 10 Amps
PVUA 24/24-20	PowerVision 24Vdc UPS with Battery Management System 20 Amps
PVAF 24/7AH-01	PowerVision Battery Cabinet suitable for 2 x Batteries (not supplied) - 7Ah
PVAF 24/12AH-01	PowerVision Battery Cabinet suitable for 2 x Batteries (not supplied) - 12Ah

ELECTRONIC CIRCUIT BREAKER



Circuit Breakers with thermomagnetic characteristics from the economy smart series present an economical alternative to conventional miniature circuit breakers. They guarantee safe tripping, even under high line resistance and are optimal for device and series machine manufacturing.

PM-0724-X	PowerVision 4 Channel Electronic Circuit Breaker, 24VDC, 4x10Amp Out-
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POWER VISION ACCESSORIES



PV-CON	PowerVision DC Power Supplies Plug in Connector
PV-KOK 2	PowerVision DC Power Supplies Programming Lead
PV-TS35M	PowerVision DC Power Supply DIN Rail Mounting Adaptor
PV-USB/Serial	DC Power Supply USB Programming Lead
PV-WB2	DC Power Supply Panel Mounting Bracket

DC POWER SUPPLIES

POWERMINI SERIES DC POWER SUPPLIES



- PM-0112-040-O Input 85-264VAC/44-66Hz or 120-372VDC - 12VDC 4A Output (11.5-14.5VDC)
- PM-0112-070-O Input 85-264VAC/44-66Hz or 120-372VDC - 12VDC 7A Output (11.5-14.5VDC)
- PM-0124-010-O Input 85-264VAC/44-66Hz or 120-372VDC - 24VDC 1A Output (23-28.5VDC)**
- PM-0124-020-O Input 85-264VAC/44-66Hz or 120-372VDC - 24VDC 2A Output (23-28.5VDC)**
- PM-0224-038-O 2-Phase Input 180-575VAC/44-66Hz, 254-800VDC - 24VDC 3.8A (23-28.5VDC)
- PM-0124-040-O Input 85-264VAC/44-66Hz or 120-372VDC - 24VDC 4A Output (23-28.5VDC)**
- PM-0130-030-O Input 85-264VAC/44-66Hz or 120-372VDC - 30VDC 3A Output (29-32VDC)
- PM-0148-020-O Input 85-264VAC/44-66Hz or 120-372VDC - 48VDC 2A Output (40-56VDC)

POWERCOMPACT SERIES DC POWER SUPPLIES



- PC-0112-150-O Input 85-264VAC/44-66Hz or 120-372VDC - 12VDC 5A Output (11.5-15VDC)
- PC-0124-050-O Input 85-264VAC/44-66Hz or 120-372VDC - 24VDC 5A Output (23-28.5VDC)**
- PC-0124-100-O Input 85-264VAC/44-66Hz or 120-372VDC - 24VDC 10A Output (23-28.5VDC)**
- PC-0124-200-O Input 85-264VAC/44-66Hz or 120-372VDC - 24VDC 20A Output (23-28.5VDC)**
- PC-0148-050-O Input 85-264VAC/44-66Hz or 120-372VDC - 48VDC 5A Output (40-56VDC)
- PC-0148-100-O Input 85-264VAC/44-66Hz or 120-372VDC - 24VDC 10A Output (40-56VDC)
- PC-0224-050-O 2-Phase Input 180-550VAC/44-66Hz or 254-780VDC - 24VDC 5A (23-28.5VDC)
- PC-0224-100-O 2-Phase Input 180-550VAC/44-66Hz or 254-780VDC - 24VDC 10A (23-28.5VDC)
- PC-0324-200-O 3-Phase Input 320-575VAC/44-66Hz - 24VDC 20A Output (23-28.5VDC)**
- PC-0324-400-O 3-Phase Input 320-575VAC/44-66Hz - 24VDC 40A Output (23-28.5VDC)**

POWERCOMPACT SERIES UPS



- PC-1024-050-O 24VDC Power Supply with Integrated 24VDC UPS - 5 Amp**
- PC-0424-017-O 24VDC CAPACITIVE UPS with built-in Capacity Storage - 20 Amp (expandable)
- PC-0424-115-O 24VDC Capacity Module to expand support time of PC-0424-017-0
- PC-0524-400-O 24VDC UPS - Input Voltage Range 18-30VDC - 40 Amp**

POWERCOMPACT SERIES ACCESSORIES



- PC-CON1 PowerCompact DC Power Supply Connector
- PC-KOK1 PowerCompact DC Power Supply Programming Cable
- PC-TS35Z PowerCompact DC Power Supply DIN Rail Mounting Adaptor

POWERECO SERIES DC POWER SUPPLIES



- PEL230/5-5.5 Input 85-264VAC/44-66Hz or 120-373VDC - 5VDC 5.5A Output (4.5 - 8.5VDC)
- PEL230/12-2 Input 85-264VAC/44-66Hz or 120-373VDC - 12VDC 2A Output (10.5 - 15.5VDC)
- PEL230/12-4 Input 85-264VAC/44-66Hz or 120-373VDC - 12VDC 4A Output (10.5 - 15.5VDC)
- PEL230/12-6.5 Input 85-264VAC/44-66Hz or 120-373VDC - 12VDC 6.5A Output (10.5 - 15.5VDC)
- PEL230/18-1.1 Input 85-264VAC/44-66Hz or 120-373VDC - 18VDC 1.1A Output (15.5 - 19VDC)
- PEL0124-013-0 Input 100-230VAC/44-66Hz or 120-373VDC - 24VDC 1.3A Output (22.8-26.4VDC)
- PEL0124-025-0 Input 100-230VAC/44-66Hz or 120-373VDC - 24VDC 2.5A Output (22.8-26.4VDC)
- PEL0124-040-0 Input 100-230VAC/44-66Hz or 120-373VDC - 24VDC 4A Output (22.8-26.4VDC)

COMATEC SNC

Comatec produce Energy Conversion Systems and is the world's leading manufacturer of DIN format DC Power Supplies. Comatec is founded in 1988 and produces transformers and power supplies for Din-rail mounting as well as the international patented miniature power supplies "OTTO" and "ORBIT" for mounting in trunking and flush boxes. Comatec also has a unique range of power supplies for DIN rail mounting with integrated battery and uninterruptible DC power supplies named MODUSV. All their products are manufactured in Italy.

DC POWER SUPPLIES



The PSM range of DC Power Supplies incorporates one of the newest switchmode technologies. This gives the PSM range a very high efficiency and a much reduced no-load or stand-by power consumption. Perfect for applications in modern DIN Style switchboards due to their compact dimensions. Built by the specialist and expert in this field they offer long term reliability.

DC POWER SUPPLIES - 1 MODULE WIDE



PSM11012	230VAC +/- 15%	12VDC	10W	0.8A
PSM11024	230VAC +/- 15%	24VDC	10W	0.4A
PSM11212	100-240VAC	12VDC	12W	1A
PSM11224	100-240VAC	24VDC	12W	0.5A
PSM11512	100-240VAC	12VDC	15W	1.25A
PSM11524	100-240VAC	24VDC	15W	0.63A

DC POWER SUPPLIES - 2 MODULES WIDE



PSM21812	100-240VAC	12-14VDC	18W	1.5A
PSM21824	100-240VAC	24-28VDC	18W	0.75A
PSM22412	100-240VAC	12-14VDC	24W	2A
PSM22424	100-240VAC	24-28VDC	24W	1A

DC POWER SUPPLIES - 3/4/6 MODULES WIDE



PSM33012	100-240VAC	12-14VDC	30W	2.5A
PSM33024	100-240VAC	24-28VDC	30W	1.25A
PSM43612	100-240VAC	12VDC	36W	3A
PSM43624	100-240VAC	24VDC	36W	1.5A
PSM44812M	230VAC +/-15%	12VDC	48W	4A
PSM44824M	230VAC +/-10%	24VDC	48W	2A
PSM46012M	230VAC +/-10%	12VDC	60W	5A
PSM46024M	230VAC +/-15%	24VDC	60W	2.5A
PSM47224M	230VAC +/-15%	24VDC	72W	3A
PSM49624M	230VAC +/-15%	24VDC	96W	4A
PSM612024M	230VAC +/-15%	24VDC	120W	5A

DC POWER SUPPLIES - IN FLUSH BOX DESIGN

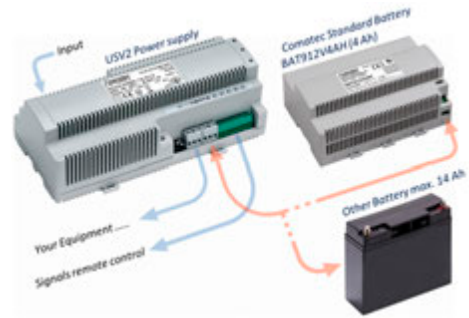


OTF.05.05	230VAC +/- 10%	5VDC/1Amp	5W	50 x 26mm
OTS.09.09	230VAC +/- 10%	9VDC/1Amp	9W	51 x 32mm
OTF.06.12	230VAC +/- 10%	12VDC/0.5Amp	6W	50 x 26mm
OTF.06.24	230VAC +/- 10%	24VDC/0.25Amp	6W	50 x 26mm
OTS.12.12	230VAC +/- 10%	12VDC/1Amp	12W	51 x 32mm
OTS.12.24	230VAC +/- 10%	24VDC/0.5Amp	12W	51 x 32mm

AC/DC UPS



The USV2 range includes the AC/DC UPS and the "Lite" power supply with battery charger. USV2 have been particularly developed for the Home Automation Sector perfect for access control and security systems. These power supplies are also used in industries where there is a need for a secure and reliable power supply.



The USV2 range is supplied in modular DIN housings which makes for easy integration into electrical control panels. The entire range is suited for use with a lead-acid battery. The external battery is connected to the USV2 through

USV2 POWER SUPPLY WITH BATTERY CHARGER - AC/DC UPS "LITE"



Power Supply with Battery Charger supplying a constant 13.8VDC output. Input supply is 230VAC and output is 13.8VDC/5Amp. The maximum capacity is 14Ah. This "Lite" Model is 8 Modules wide and can be used with the BAT9/12V4AH Battery Module.

USV2L050012E8

USV2 AC/DC UPS WITH BATTERY MANAGEMENT



AC/DC UPS with built in Battery Management has an input of 230VAC and an output of either 12VDC/2Amp or 24VDC/1Amp. The maximum capacity is 14Ah. Both units are 8 Modules wide and can be used with the BAT9/12V4AH Battery Module.

USV2020012E8 (12.4VDC/2Amp)

USV2010024E8 (24.8VDC/1Amp)

USV2 AC/DC UPS WITH BATTERY MANAGEMENT & MONITORING



AC/DC UPS with built in Intelligent Battery Management has an input of 230VAC and an output of either 12VDC/5Amp or 24VDC/3Amp. The maximum capacity is 14Ahr. Both models have remote monitoring contacts available. Both units are 12 Modules wide and can be used with the BAT9/12V4AH Battery Module.

USV2050012E12 (12.4VDC/5Amp)

BATTERY MODULE



The BAT9/12V4AH Battery Module has been specifically developed for the USV2 range. The unit is 9 Modules wide and contains a 12V-4Ah lead acid battery.

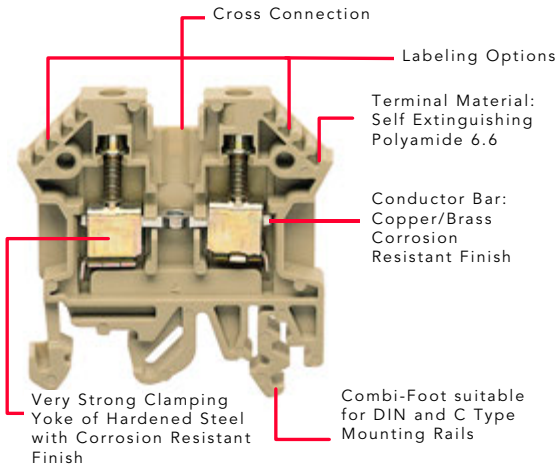
BAT9/12V4AH

CONTA-CLIP

Conta-Clip is a German manufacturer of Terminals, Relays, Electronic Components and Marking Systems. Their terminals are of superior quality and have an excellent price structure. We carry a huge range of 1,500 different terminal parts in stock here in New Zealand. We supply custom printed terminal, device and cable markers at the most competitive rates in New Zealand.

SCREW TERMINALS

TECHNICAL INFORMATION



SCREW CONNECTION SYSTEM (RK)

Using the strain relief clamp method, the wire is pressed against the contact rail indirectly by the screw and the clamp. This system produces a gastight connection between the wire and the contact rail.

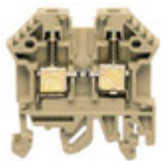
Due to its construction, the strain relief clamp offers the highest contact force and the lowest drop in voltage.

The strain relief clamp is made of galvanized case-hardened, corrosion treated steel giving a higher security than other materials.

Arguments for the Conta-Clip RK screw terminals are:
Highest contact force/contact security, lowest drop in voltage.
Connection range 0.08 to 240 mm².



2.5 MM² SCREW TERMINALS



RK2.5



RK2.5BL



ES35



Q10(2.5)

RK2.5	Single Level 2.5mm² Terminal Block
RK2.5/35 N/2Q	Single Level 2.5mm² Terminal Block for Z Type (ZQI2.5/..) Bars - TS35 Rail
RK2.5B	Single Level 2.5mm² Terminal Block (Blue)
RK2.5R	Single Level 2.5mm² Terminal Block (Red)
RK2.5Y	Single Level 2.5mm² Terminal Block (Yellow)
RK2.5W	Single Level 2.5mm² Terminal Block (White)
RK2.5O	Single Level 2.5mm² Terminal Block (Orange)
RK2.5BL	Single Level 2.5mm² Terminal Block (Black)
RK2.5G	Single Level 2.5mm² Terminal Block (Green)
AP2.5-10	End Cover for RK2.5, RK2.5-4 & RK6-10
TW2.5-10	Partition Plate for RK2.5, RK2.5-4 & RK6-10
TRS3	Terminal Insulation Plate for RK1.5-4/15, RK2.5, RKD2.5 & RKD4
ES35	Small DIN Rail End Clamp
AD1/5	Terminal Cover for RK2.5
Q2(2.5)	2 Pole Cross Connection Bridge (2567.0)
Q3(2.5)	3 Pole Cross Connection Bridge (2568.0)
Q10(2.5)	10 Pole Cross Connection Bridge (2570.0)
Q0.5M(2.5)	100 (approximately) Pole Cross Connection Bridge (2152.0)

For more terminal options please check Accessories Pages

SCREW TERMINALS - 4 / 10 MM²

4 MM² SCREW TERMINALS



RK2.5-4/35



RK2.5-4Y



Q4(4)



QI10(4)



RK2.5-4	Single Level 4mm ² Terminal Block
RK2.5-4/35	Single Level 4mm ² Terminal Block - TS35 DIN Rail only
RK2.5-4B	Single Level 4mm ² Terminal Block (Blue)
RK2.5-4/35B	Single Level 4mm ² Terminal Block (Blue) - TS35 DIN Rail only
RK2.5-4R	Single Level 4mm ² Terminal Block (Red)
RK2.5-4Y	Single Level 4mm ² Terminal Block (Yellow)
RK2.5-4W	Single Level 4mm ² Terminal Block (White)
RK2.5-4O	Single Level 4mm ² Terminal Block (Orange)
RK2.5-4BL	Single Level 4mm ² Terminal Block (Black)
RK2.5-4G	Single Level 4mm ² Terminal Block (Green)
AP2.5-10	End Cover for RK2.5, RK2.5-4 & RK6-10
TW2.5-10	Partition Plate for RK2.5, RK2.5-4 & RK6-10
ES35	Small DIN Rail End Clamp
AD1/6	Terminal Cover for RK2.5
QI2(4)	2 Pole Insulated Cross Connection Bridge (2740.2)
QI3(4)	3 Pole Insulated Cross Connection Bridge (2741.2)
QI4(4)	4 Pole Insulated Cross Connection Bridge (2742.2)
QI10(4)	10 Pole Insulated Cross Connection Bridge (2743.2)
Q2(4)	2 Pole Cross Connection Bridge (2019.0)
Q3(4)	3 Pole Cross Connection Bridge (2020.0)
Q10(4)	10 Pole Cross Connection Bridge (2022.0)
Q0.5M(4)	83 (approximately) Pole Cross Connection Bridge (2153.0)

For more terminal options please check Accessories Pages

6 - 10 MM² SCREW TERMINALS



RK6-10



RK6-10/35

RK6-10	Single Level 10mm ² Terminal Block
RK6-10/35	Single Level 10mm ² Terminal Block - TS35 DIN Rail only
RK6-10B	Single Level 10mm ² Terminal Block (Blue)
RK6-10/35B	Single Level 10mm ² Terminal Block (Blue) - TS35 DIN Rail only
RK6-10R	Single Level 10mm ² Terminal Block (Red)
RK6-10Y	Single Level 10mm ² Terminal Block (Yellow)
RK6-10W	Single Level 10mm ² Terminal Block (White)
RK6-10O	Single Level 10mm ² Terminal Block (Orange)
RK6-10BL	Single Level 10mm ² Terminal Block (Black)
RK6-10G	Single Level 10mm ² Terminal Block (Green)
AP2.5-10	End Cover for RK2.5, RK2.5-4 & RK6-10
TW2.5-10	Partition Plate for RK2.5, RK2.5-4 & RK6-10

RK 6-10 Series Terminals continue on next page

SCREW TERMINALS

- 6 / 16 MM²

6-10 MM² SCREW TERMINALS - CONTINUED



Q13(10)

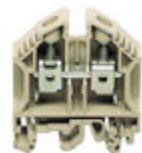
TRS1	Terminal Insulation Plate for RK2.5-4, RK6-10, RK16 & PTK
ES35	Small DIN Rail End Clamp
AD1/8	Terminal Cover for RK6-10
Q12(10)	2 Pole Insulated Cross Connection Bridge (2750.2)
Q13(10)	3 Pole Insulated Cross Connection Bridge (2751.1)
Q14(10)	4 Pole Insulated Cross Connection Bridge (2752.2)
Q110(10)	10 Pole Insulated Cross Connection Bridge (2753.2)
Q2(10)	2 Pole Cross Connection Bridge (2060.0)
Q3(10)	3 Pole Cross Connection Bridge (2061.0)
Q4(10)	4 Pole Cross Connection Bridge (2062.0)
Q10(10)	10 Pole Cross Connection Bridge (2063.0)



Bridges installed

For more terminal options please check Accessories Pages

16 MM² SCREW TERMINALS



RK16

RK16	Single Level 16mm ² Terminal Block
RK16/35N	Single Level 16mm ² Terminal Block - TS35 DIN Rail only
RK16B	Single Level 16mm ² Terminal Block (Blue)
RK16/35NB	Single Level 16mm ² Terminal Block (Blue) - TS35 DIN Rail only
RK16G	Single Level 16mm ² Terminal Block (Green)
AP16	End Cover for RK16PA
TW16	Partition Plate for RK16
TRS1	Terminal Insulation Plate for RK2.5-4, RK6-10, RK16 & PTK



R16/35N



Q2(16)

ES35	Small DIN Rail End Clamp
AD1/12B	Terminal Cover for RK16 - Arrow Marking
Q2(16)	2 Pole Cross Connection Bridge (2112.0)
Q3(16)	3 Pole Cross Connection Bridge (2113.0)
Q4(16)	4 Pole Cross Connection Bridge (2114.0)
Q10(16)	10 Pole Cross Connection Bridge (2115.0)
Q2(16/35N)	2 Pole Cross Connection Bridge (2257.0)
Q3(16/35N)	3 Pole Cross Connection Bridge (2258.0)
Q4(16/35N)	4 Pole Cross Connection Bridge (2265.0)
Q10(16/35N)	10 Pole Cross Connection Bridge (2266.0)



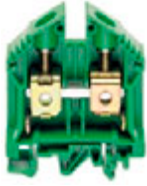
AD1/12B

For more terminal options please check Accessories Pages

SCREW TERMINALS

- 35 MM² / 240 MM²

35 MM² SCREW TERMINALS



RK35G



RK35/35N

RK35	Single Level 35mm ² Terminal Block
RK35/35N	Single Level 35mm ² Terminal Block - TS35 DIN Rail only
RK35B	Single Level 35mm ² Terminal Block (Blue)
RK35/35NB	Single Level 35mm ² Terminal Block (Blue) - TS35 DIN Rail only
RK35G	Single Level 35mm ² Terminal Block (Green)
AP35	End Cover for RK35
TW35	Partition Plate for RK35
ES35	Small DIN Rail End Clamp
AD1/16B	Terminal Cover for RK35 - Arrow Marking
AD1/16BN	Terminal Cover for RK35/35N - Arrow Marking
Q2(35)	2 Pole Cross Connection Bridge (2164.0)
Q3(35)	3 Pole Cross Connection Bridge (2165.0)
Q4(35)	4 Pole Cross Connection Bridge (2166.0)
Q10(35)	10 Pole Cross Connection Bridge (2167.0)

For more terminal options please check Accessories Pages

50 MM² / 240 MM² SCREW TERMINALS



RK50



HES35ST



MAG 95

RK50	Single Level 50mm ² Terminal Block - TS35 DIN Rail only
RK50B	Single Level 50mm ² Terminal Block (Blue) - TS35 DIN Rail only
RK95	Single Level 95mm ² Terminal Block - TS35 DIN Rail only
RK95B	Single Level 95mm ² Terminal Block (Blue) - TS35 DIN Rail only
RK150	Single Level 150mm ² Terminal Block - TS35 DIN Rail only
RK150B	Single Level 150mm ² Terminal Block (Blue) - TS35 DIN Rail only
RK240	Single Level 240mm ² Terminal Block - TS35 DIN Rail only
RK240B	Single Level 240mm ² Terminal Block (Blue) - TS35 DIN Rail only
HES35ST	Heavy Duty Metal DIN Rail End Clamp
AQ12/50	2 Pole Jumper Bar for RK50
AQ13/50	3 Pole Jumper Bar for RK50
AQ12/95	2 Pole Jumper Bar for RK95
AQ13/95	3 Pole Jumper Bar for RK95
AQ12/150	2 Pole Jumper Bar for RK150
AQ13/150	3 Pole Jumper Bar for RK150
AQ12/240	2 Pole Jumper Bar for RK240
AQ13/240	3 Pole Jumper Bar for RK240
MAG50	RK50 Measurement Pick-off Terminal - 10mm ² , 57Amp
MAG95	RK95 Measurement Pick-off Terminal - 10mm ² , 57Amp
MAG150/240	RK150 & RK240 Measurement Pick-off Terminal - 10mm ² , 57Amp

For more terminal options please check Accessories Pages

SCREW TERMINALS - DOUBLE LEVEL

2.5 MM² DOUBLE LEVEL SCREW TERMINALS



RKD2.5



RKD2.5SV

RKD2.5	Dual Level 2.5mm ² Terminal Block
RKD2.5SV	Dual Level 2.5mm ² Terminal Block- Link between top and bottom
Q2(2.5)	2 Pole Cross Connection Bridge (2567.0)
Q3(2.5)	3 Pole Cross Connection Bridge (2568.0)
Q4(2.5)	4 Pole Cross Connection Bridge (2569.0)
Q10(2.5)	10 Pole Cross Connection Bridge (2570.0)
Q0.5M(2.5)	100 (approximately) Pole Cross Connection Bridge (2152.0)
AP4	End Cover for RKD2.5 & RKD4 Terminals

For more terminal options please check Accessories Pages

4 MM² DOUBLE LEVEL SCREW TERMINALS



RKD4/35



RKD4/D(1047.2)



RKD4/UV60



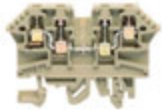
RKD4/RC

RKD4	Dual Level 4mm ² Terminal Block
RKD4/35	Dual Level 4mm ² Terminal Block - TS35 DIN Rail only
RKD4B	Dual Level 4mm ² Terminal Block - blue
RKD4R	Dual Level 4mm ² Terminal Block - red
RKD4SV	Dual Level 4mm ² Terminal Block - Link between top and bottom
RKD4/D(1046.2)	Dual Level 4mm ² Terminal Block with single Diode
RKD4/D(1047.2)	Dual Level 4mm ² Terminal Block with single Diode
RKD4/D(2319.2)	Dual Level 4mm ² Terminal Block with single Diode
RKD4/D(2323.2)	Dual Level 4mm ² Terminal Block with two Diodes
RKD4/D(1042.2)	Dual Level 4mm ² Terminal Block for 24Vac Indication - Red LED
RKD4/D(2436.2)	Dual Level 4mm ² Terminal Block for 24Vdc Indication - Red LED
RKD4/RC(1189.2)	Quenching Terminal for Contactor and Solenoid Valves
RKD4/UG/90	Dual Level 4mm ² Terminal - Overvoltage protection/gas arrester - 90V
RKD4/UG/230	Dual Level 4mm ² Terminal - Overvoltage protection/gas arrester - 230V
RKD4/UV30	Dual Level 4mm ² Terminal Block - Overvoltage protection/varistor
RKD4/UV60	Dual Level 4mm ² Terminal Block - Overvoltage protection/varistor
Q2(RKD4)	2 Pole Cross Connection Bridge for RKD4 (2087.0)
Q10(RKD4)	10 Pole Cross Connection Bridge for RKD4 (2090.0)
Q0.5M(RKD4)	83 (approximately) Pole Cross Connection Bridge for RKD4 (2150.0)
AP4	End Cover for RKD2.5 & RKD4 Terminals
AP4B	End Cover for RKD2.5 & RKD4 Terminals - blue

For more terminal options please check Accessories Pages

SCREW TERMINALS - DUAL / THREE LEVEL

4 MM² DUAL LEVEL SCREW TERMINALS

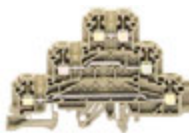


RK2.5-4ZRL

RK2.5-4ZR	Dual Connection 4mm ² Terminal Block - 1/2 configuration
AP2.5/R	End Cover for RK2.5-4ZR
RK2.5-4ZRL	Dual Connection 4mm ² Terminal Block - 2/2 configuration
AP2.5/RL	End Cover for RK2.5-4ZRL

For more terminal options please check Accessories Pages

2.5 MM² THREE LEVEL SCREW TERMINALS



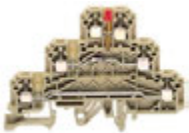
IKD2.5



IK2.5

IKD2.5	3 Level 2.5mm ² Terminal Block
IKD2.5/Q	3 Level 2.5mm ² Terminal Block for Cross Connection
AP2.5/ID	End Cover for IKD2.5 & IKD2.5/Q (2699.2)
AP-IKD2.5/S	Short End Cover for matching IKD2.5 & IK2.5 terminals (2714.2)
IK2.5	3 Level 2.5mm ² Terminal Block for Cross Connection with colour coding
AP2.5/I	End Cover for IK2.5PA (2698.2)
Q2(IKD2.5)	2 Pole Cross Connection Bridge (2422.0)
Q10(IKD2.5)	10 Pole Cross Connection Bridge (2425.0)
Q0.5M(IKD2.5)	100 (approximately) Pole Cross Connection Bridge (2151.0)

2.5 MM² THREE LEVEL PNP LED TERMINALS



IKD2.5PNP/DC
(1287.2)

IKD2.5PNP/DC(1283.2)	3 Level 2.5mm ² Terminal Block - 24Vdc, Red LED, PNP Type
IKD2.5PNP/DC(1285.2)	3 Level 2.5mm ² Terminal Block - 48Vdc, Red LED, PNP Type
IKD2.5PNP/DC(1287.2)	3 Level 2.5mm ² Terminal Block - 60Vdc, Red LED, PNP Type
IKD2.5PNP/DC(1284.2)	3 Level 2.5mm ² Terminal Block - 24Vdc, Green LED, PNP Type
IKD2.5PNP/DC(1286.2)	3 Level 2.5mm ² Terminal Block - 48Vdc, Green LED, PNP Type
IKD2.5PNP/DC(1288.2)	3 Level 2.5mm ² Terminal Block - 60Vdc, Green LED, PNP Type
IKD2.5PNP/AC(1266.2)	3 Level 2.5mm ² Terminal Block - 220Vac, Red LED, PNP Type
IKD2.5PNP/AC(1299.2)	3 Level 2.5mm ² Terminal Block - 220Vac, Green LED, PNP Type

2.5 MM² THREE LEVEL NPN LED TERMINALS



IKD2.5NPN/DC
(1289.2)

IKD2.5NPN/DC(1289.2)	3 Level 2.5mm ² Terminal Block - 24Vdc, Red LED, NPN Type
IKD2.5NPN/DC(1291.2)	3 Level 2.5mm ² Terminal Block - 48Vdc, Red LED, NPN Type
IKD2.5NPN/DC(1293.2)	3 Level 2.5mm ² Terminal Block - 60Vdc, Red LED, NPN Type
IKD2.5NPN/DC(1290.2)	3 Level 2.5mm ² Terminal Block - 24Vdc, Green LED, NPN Type
IKD2.5NPN/DC(1292.2)	3 Level 2.5mm ² Terminal Block - 48Vdc, Green LED, NPN Type
IKD2.5NPN/DC(1294.2)	3 Level 2.5mm ² Terminal Block - 60Vdc, Green LED, NPN Type
IKD2.5NPN/AC(1267.2)	3 Level 2.5mm ² Terminal Block - 220Vac, Red LED, NPN Type
IKD2.5NPN/AC(1366.2)	3 Level 2.5mm ² Terminal Block - 220Vac, Green LED, NPN Type

SCREW TERMINALS - THREE / FOUR LEVEL

2.5 MM² TWO LEVEL PLUS EARTH SCREW TERMINALS



DLI2.5PE/L/L



Q10(DLI2.5)

DLI2.5PE/L/L	2 Level Plus Earth 2.5mm² Terminals Blocks
AP2.5D	End Cover for DLI2.5PE/L/L
Q2(DLI2.5)	2 Pole Cross Connection Bridge (2832.0)
Q3(DLI2.5)	3 Pole Cross Connection Bridge (2833.0)
Q4(DLI2.5)	4 Pole Cross Connection Bridge (2834.0)
Q10(DLI2.5)	10 Pole Cross Connection Bridge (2835.0)
Q0.5M(DLI2.5)	100 (approximately) Pole Cross Connection Bridge (2154.0)

For more terminal options please check Accessories Pages

2.5 MM² THREE LEVEL PLUS EARTH SCREW TERMINALS



VMAK2.5



AQI2/6/11

VMAK2.5	3 Level Plus Earth 2.5mm² Terminal Block
AP/VMAK2.5	End Cover for VMAK2.5 Terminal
AQI2/6/11	2 Pole External Comb Jumper Bar
AQI3/6/11	3 Pole External Comb Jumper Bar
AQI4/6/11	4 Pole External Comb Jumper Bar
AQI10/6/11	10 Pole External Comb Jumper Bar
AQI75/6/11	75 Pole External Comb Jumper Bar

For more terminal options please check Accessories Pages

SCREW TERMINALS - EARTH & TS15

SCREW TERMINALS - EARTH



SL2.5/35

SL2.5/35 Earth 2.5mm² Terminal Block - TS35 DIN Rail only

SL4/35 Earth 4mm² Terminal Block - TS35 DIN Rail only

SL10/35 Earth 10mm² Terminal Block - TS35 DIN Rail only

SL16/35 Earth 16mm² Terminal Block - TS35 DIN Rail only



SL16/35N

SL16/35N Earth 16mm² Terminal Block - TS35 DIN Rail only

SL35/35 Earth 35mm² Terminal Block - TS35 DIN Rail only

SL35/35N Earth 35mm² Terminal Block - TS35 DIN Rail only



SL35/32

SL2.5/32 Earth 2.5mm² Terminal Block - TS32 (C Type) DIN Rail only

SL4/32 Earth 4mm² Terminal Block - TS32 (C Type) DIN Rail only

SL10/32 Earth 10mm² Terminal Block - TS32 (C Type) DIN Rail only

SL16/32 Earth 16mm² Terminal Block - TS32 (C Type) DIN Rail only

SL35/32 Earth 35mm² Terminal Block - TS32 (C Type) DIN Rail only

SL4/15 Earth 4mm² Terminal Block



SL2.5/35ZRL

SL2.5/35ZR Dual Connection 4mm² Earth Terminal Block - 1/2 configuration - TS35 Rail

AP2.5RG End Cover for SL2.5/35ZR - Green - TS35 DIN Rail only

SL2.5/35ZRL Dual Connection 4mm² Earth Terminal Block - 2/2 configuration - TS35 Rail

AP2.5RLG End Cover for RK2.5/35ZRL - Green - TS35 DIN Rail only

TS15 SCREW TERMINALS



RK1.5-4/15

RK1.5-4/15 Single Level 4mm² Terminal Block

RK1.5-4/15B Single Level 4mm² Terminal Block (Blue)

RK1.5-4/15W Single Level 4mm² Terminal Block (White)

RK1.5-4/15O Single Level 4mm² Terminal Block (Orange)



RK1.5-4/15B

AP1.5-4 End Cover for RK1.5-4/15PA

AP1.5-4B End Cover for RK1.5-4/15PA (Blue)

TW1.5-4 Partition Plate for RK1.5-4/15



STK2/15

SL4/15 Earth 4mm² Terminal Block

STK2/15 Small Length 6.3 Amp 4mm² Fuse Terminal Block for TS15 Rail

APSI-2 End Cover for STK2/15

ES15 End Clamp for 15mm Rail

Q2(RKD4) 2 Pole Cross Connection Bridge for RKD4 (2087.0)

Q10(RKD4) 10 Pole Cross Connection Bridge for RKD4 (2090.0)

Q0.5M(RKD4) 83 (approximately) Pole Cross Connection Bridge for RKD4 (2150.0)








ES15

For more terminal options please check Accessories Pages









SCREW TERMINALS - DISCONNECT TYPE

DISCONNECT TERMINALS



	TRK1.5	4mm ² Disconnect Terminal Block
	TRK1.5B	4mm ² Disconnect Terminal Block - Blue
	TRK1.5/STB	4mm ² Disconnect Terminal Block - plug sockets instead of clamping screws
	TRK1.5/DS	4mm ² Disconnect Terminal Block with removable link
TRK1.5	TRK1.5(1398.2)	4mm ² Disconnect Terminal Block - base only
	DS1-TRK1.5(1400.2)	4mm ² Disconnect Terminal Block - upper part - link
	DS1-TRK1.5(1401.2)	4mm ² Disconnect Terminal Block - upper part - Diode
	DS1-TRK1.5(1402.2)	4mm ² Disconnect Terminal Block - upper part - Diode
	DS1-TRK1.5(1403.2)	4mm ² Disconnect Terminal Block - upper part - no link
TRK1.5/DS	STK2/15/K	4mm ² Disconnect Terminal Block
	STK2/K	4mm ² Disconnect Terminal Block
	APSI-2	End Cover for Disconnect Terminals STK2/15/K & STK2/K
DS-TRK1.5	STKD1/K	4mm ² Disconnect Terminal Block & Extra Lower Terminal
	APSID-1	End Cover for Disconnect Terminals STKD1
	TK2/K	4mm ² Disconnect Terminal Block
	APSI-1	End Cover for Disconnect Terminals STK1
	KH5	Contact Sleeve - Solid Link
		<i>For more terminal options please check Accessories Pages</i>
STK1/K		

TEST DISCONNECT TERMINALS

TEST DISCONNECT TERMINALS - PTK SERIES





	PTK/LT	10mm ² Test Disconnect Terminal Block
	PTK/LT/STB	10mm ² Test Disconnect Terminal Block with Test Sockets
	PTK/QT	10mm ² Test Disconnect Terminal Block
	PTK/QT/STB	10mm ² Test Disconnect Terminal Block with Test Sockets
PTK/LT	PTK/DU	10mm ² Test Disconnect Terminal Block - Straight Through Terminal
	APL/Q/D	End Cover for PTK Terminals
	TRS1	Separator Plate
	QSB2	Switchable Link - 2 Pole
	QSB3	Switchable Link - 3 Pole
PTK/DU	QI2(10)	Insulated Cross Connection Bridge - 2 Pole (2750.2)
	QI3(10)	Insulated Cross Connection Bridge - 3 Pole (2751.2)
	QI4(10)	Insulated Cross Connection Bridge - 4 Pole (2752.2)
STB35Y	QI10(10)	Insulated Cross Connection Bridge - 10 Pole (2753.2)
	QVS2	Cross Connection Jumper - 2 Pole
B5 25 Range	VH19(2238.0)	Connection Sleeve
	STB35Y	Test Fixing Screw - Yellow
	STB35GN	Test Fixing Screw - Green
	STB35VT	Test Fixing Screw - Violet
	BS25GN	PTK System Screw - Green
KSS2-8	BS25VT	PTK System Screw - Violet
	BS25Y	PTK System Screw - Yellow
	STB14/4	Test Plug Socket
	PS4	Test Plug
PS4	KSS2-8	Short Circuit Test Plug

RK SAFE BOX / ASSEMBLED TEST DISCONNECT CT TERMINAL BLOCK SETS



	RK SAFE-BOX	Terminal Housing System - Empty
	PTK10CTVTSB	Test Disconnect Terminal Block Set - 3 Phase CT & VT with Safe Box
	PTK10CTSB	Test Disconnect Terminal Block Set - 3 Phase CT only with Safe Box
	PTK10CTVT	Test Disconnect Terminal Block Set - 3 Phase CT & VT
	PTK10CT	Test Disconnect Terminal Block Set - 3 Phase CT only
	PTK10CTNI	Test Disconnect Terminal Block Set - 3 Phase CT only - Non Isolating

SCREW TERMINALS - FUSE TERMINALS

FUSE TERMINALS

	STK1	6.3 Amp 4mm ² Fuse Terminal Block
	STK1LED(2449.2)	6.3 Amp 4mm ² Fuse Terminal Block - LED Indication - 24V DC
	STK1LED(2454.2)	6.3 Amp 4mm ² Fuse Terminal Block - LED Indication - 24V AC
	STK1LED(2458.2)	6.3 Amp 4mm ² Fuse Terminal Block - LED Indication - 230V AC
STK1	APSI-1	End Cover for STK 1
	STK2	Small Length 6.3 Amp 4mm ² Fuse Terminal Block
	STK2/15	Small Length 6.3 Amp 4mm ² Fuse Terminal Block - 15mm DIN Rail
	APSI-2	End Cover for STK2
STK2	STKD1	Dual Level 6.3 Amp Fuse Holder & Terminal Block
	APSID-1	End Cover for STKD1
	SIK10	10 Amp 10mm ² Fuse Terminal Block
	SIK10/Z	10 Amp 10mm ² Fuse Terminal Block - for Imperial Fuse Links
	AP10	End Plate for SIK10PA
SIK10	SST/SIK/LED(1113.2)	SIK10PA Fuse Status Indication 12VDC & 24VAC
	SST/SIK/LED(1114.2)	SIK10PA Fuse Status Indication 20-30VDC & 40-60VDC
	SST/SIK/LED(1115.2)	SIK10PA Fuse Status Indication 40-60VDC & 80-120VDC
	SST/SIK/LED(1116.2)	SIK10PA Fuse Status Indication 115VDC & 230VAC
	VBS2/10	Link for two Fuse Terminal Levers - for STK2, STKD1, SIK10
	VBS3/10	Link for three Fuse Terminal Levers - for STK2, STKD1, SIK10
STKD1	AQI60/8/11	60 Pole Insulated Comb Bar 8mm Pitch for STK1, STK2 & STKD1
	AQI60/8/18	60 Pole Insulated Comb Bar 8mm Pitch for SIK10 Fuse Terminals

SK1 FUSE TERMINALS

	SK1/35	High Temperature Screw Cap Fuse Terminal for 5x20 Fuse Links - Black
	SK1/35WK	High Temperature Screw Cap Fuse Terminal with Window for 5x25 Fuses
	SK1/35LED24VDC	High Temperature Screw Cap Fuse Terminal, 24VDC LED Indication
	SK1/35LED24VAC	High Temperature Screw Cap Fuse Terminal, 24VAC LED Indication
SK1/35	SK1/35G230V	High Temperature Screw Cap Fuse Terminal, 230VAC Neon Indication
	SK1/35G24VDC	High Temperature Screw Cap Fuse Terminal, 24VAC/DC Neon Indication
	APSIBK	End Cover for SK1/35 Fuse Terminal - Black
	SKA5x20	Spare Screw Cap for SK1/35 Fuse Terminal - Black
	SKA5x25	Spare Screw Cap for SK1/35WK Fuse Terminal - Black
SK1/35 LED24VDC	QS2(2366.0)	2 Pole Cross Connection for SK1/35 Fuse Terminal

FUSE LINKS

20 X 5 MM FUSE LINKS - 250V



Glass Fuse Links



SI1.OA

SI0.05A	Fuse Link 50 mA, 20x5mm, Glass Type
SI0.1A	Fuse Link 100 mA, 20x5mm, Glass Type
SI0.125A	Fuse Link 125 mA, 20x5mm, Glass Type
SI0.16A	Fuse Link 160 mA, 20x5mm, Glass Type
SI0.2A	Fuse Link 200 mA, 20x5mm, Glass Type
SI0.25A	Fuse Link 250 mA, 20x5mm, Glass Type
SI0.315A	Fuse Link 315 mA, 20x5mm, Glass Type
SI0.4A	Fuse Link 400 mA, 20x5mm, Glass Type
SI0.5A	Fuse Link 500 mA, 20x5mm, Glass Type
SI0.630A	Fuse Link 630 mA, 20x5mm, Glass Type
SI0.800A	Fuse Link 800 mA, 20x5mm, Glass Type
SI1A	Fuse Link 1 Amp, 20x5mm, Glass Type
SI1.125A	Fuse Link 1.25 Amp, 20x5mm, Glass Type
SI1.6A	Fuse Link 1.6 Amp, 20x5mm, Glass Type
SI2A	Fuse Link 2 Amp, 20x5mm, Glass Type
SI2.5A	Fuse Link 2.5 Amp, 20x5mm, Glass Type
SI3.15A	Fuse Link 3.15 Amp, 20x5mm, Glass Type
SI4A	Fuse Link 4 Amp, 20x5mm, Glass Type
SI5A	Fuse Link 5 Amp, 20x5mm, Glass Type
SI6.3A	Fuse Link 6.3 Amp, 20x5mm, Glass Type
SI8A	Fuse Link 8 Amp, 20x5mm, Glass Type
SI10A	Fuse Link 10 Amp, 20x5mm, Glass Type

5 X 25 MM FUSE LINKS - 250V WITH INDICATION



SI6.3A/I

SI1A/I	Fuse Link 1 Amp, 25x5mm with Indicator
SI2A/I	Fuse Link 2 Amp, 25x5mm with Indicator
SI4A/I	Fuse Link 4 Amp, 25x5mm with Indicator
SI6.3A/I	Fuse Link 6.3 Amp, 25x5mm with Indicator

32 X 6.3MM IMPERIAL FUSE LINKS - 500V



SI 2.0A/32F

SI1.0A/32F	Fuse Link 1 Amp, 32x6.3mm Ceramic type
SI2.0A/32F	Fuse Link 2 Amp, 32x6.3mm Ceramic type
SI4.0A/32F	Fuse Link 4 Amp, 32x6.3mm Ceramic type
SI6.3A/32F	Fuse Link 6.3 Amp, 32x6.3mm Ceramic type
SI8.0A/32F	Fuse Link 8 Amp, 32x6.3mm Ceramic type
SI10.0A/32F	Fuse Link 10 Amp, 32x6.3mm Ceramic type



SCREW TERMINALS - DIRECT MOUNTING / BLOCK

DIRECT MOUNTING TERMINALS



BKA4 assembled



EH2-Z



RK50-D

BKA2.5	2.5mm² Direct Mounting Terminal
BKA2.5B	2.5mm² Direct Mounting Terminal - Blue
BKA4	4mm² Direct Mounting Terminal
EH15BKA	End Clamp for 2.5mm² & 4mm² BKA Terminals for TS15 Rail
EH2	Direct Mounting End Clamp for 2.5mm² & 4mm² BKA Terminals
EH2-Z	Direct Mounting End Clamp for 2.5mm² & 4mm² BKA Terminals Push Fit
BKA10	10mm² Direct Mounting Terminal
EH3	Direct Mounting End Clamp for BKA10 Terminals
EH35BKA	End Clamp for BKA10 Terminals TS35 Rail
RK50-D	50mm² Direct Mounting Terminal
RK95-D	95mm² Direct Mounting Terminal
RK150-D	150mm² Direct Mounting Terminal
RK240-D	240mm² Direct Mounting Terminal

For more terminal options please check Accessories Pages

BLOCK TYPE TERMINALS



KBL2.5-4/10

KBL2.5/3	3 Pole 2.5mm² Terminal Block, assembled
KBL2.5/4	4 Pole 2.5mm² Terminal Block, assembled
KBL2.5/5	5 Pole 2.5mm² Terminal Block, assembled
KBL2.5/6	6 Pole 2.5mm² Terminal Block, assembled
KBL2.5/7	7 Pole 2.5mm² Terminal Block, assembled
KBL2.5/10	10 Pole 2.5mm² Terminal Block, assembled
KBL2.5/12	12 Pole 2.5mm² Terminal Block, assembled
KBL2.5/14	14 Pole 2.5mm² Terminal Block, assembled
KBL2.5/16	16 Pole 2.5mm² Terminal Block, assembled
KBL2.5/18	18 Pole 2.5mm² Terminal Block, assembled
KBL2.5-4/3	3 Pole 4mm² Terminal Block, assembled
KBL2.5-4/4	4 Pole 4mm² Terminal Block, assembled
KBL2.5-4/10	10 Pole 4mm² Terminal Block
KBL6-10/3	3 Pole 10mm² Terminal Block, assembled
KBL6-10/10	10 Pole 10mm² Terminal Block, assembled

For more terminal block options and combination - please contact us



STUD TERMINALS

HSK SERIES



HSK16/M5B



HSK120/M10B

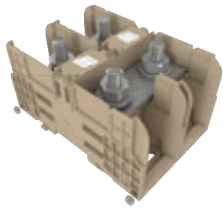


HSK120/M10B/B

HSK16/M5B	Single Stud - 16mm² Terminal Block - M5 Stud
HSK35/M6B	Single Stud - 35mm² Terminal Block - M6 Stud
HSK35/M6B/B	2 Stud - 35mm² Terminal Block - M6 Stud
HSK50/M8B	Single Stud - 50mm² Terminal Block - M8 Stud
HSK50/M8B/B	2 Stud - 50mm² Terminal Block - M8 Stud
HSK120/M10B	Single Stud - 120mm² Terminal Block - M10 Stud
HSK120/M12B	Single Stud - 120mm² Terminal Block - M12 Stud
HSK120/M10B/B	2 Stud - 120mm² Terminal Block - M10 Stud
TW16-120	Separator Plate
TW35-120B/B	Separator Plate
AD16(17019.0)	Cover Profile
AD35(17020.0)	Cover Profile
AD50(17021.0)	Cover Profile
AD120(17026.0)	Cover Profile

STUD TERMINALS / STUD TERMINAL SETS

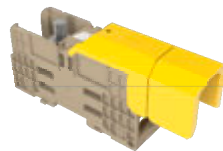
STUD TERMINALS



HSKG Terminals



ADH Covers - Yellow



HSKG with ADH cover



QS2 Bar

HSKG35/M6/B/B	2 Stud - 35mm ² Terminal Block - M6 Stud - 125 Amps
HSKG70/M8/B/B	2 Stud - 70mm ² Terminal Block - M8 Stud - 192 Amps
HSKG120/M10/B/B	2 Stud - 120mm ² Terminal Block - M10 Stud - 269 Amps
HSKG185/M12/B/B	2 Stud - 185mm ² Terminal Block - M12 Stud - 353 Amps
HSKG300/M16/B/B	2 Stud - 300mm ² Terminal Block - M16 Stud - 520 Amps
ADH35Y	Cover Profile for HSKG 35/M6/B/B - yellow
ADH70Y	Cover Profile for HSKG 70/M8/B/B - yellow
ADH120Y	Cover Profile for HSKG 120/M10/B/B - yellow
ADH185/300Y	Cover Profile for HSKG185 & HSKG300 Terminals - yellow
ADH35	Cover Profile for HSKG 35/M6/B/B - beige
ADH70	Cover Profile for HSKG 70/M8/B/B - beige
ADH120	Cover Profile for HSKG 120/M10/B/B - beige
ADH185/300	Cover Profile for HSKG185 & HSKG300 Terminals - beige
QS2/35/6	2 Pole Cross Connection Bar for HSKG35/M6/B/B
QS3/35/6	3 Pole Cross Connection Bar for HSKG35/M6/B/B
QS2/70/8	2 Pole Cross Connection Bar for HSKG70/M8/B/B
QS3/70/8	3 Pole Cross Connection Bar for HSKG70/M8/B/B
QS2/120/10	2 Pole Cross Connection Bar for HSKG120/M10/B/B
QS3/120/10	3 Pole Cross Connection Bar for HSKG120/M10/B/B
QS2/185/12	2 Pole Cross Connection Bar for HSKG185/M12/B/B
QS3/185/12	3 Pole Cross Connection Bar for HSKG185/M12/B/B
QS2/300/16	2 Pole Cross Connection Bar for HSKG300/M16/B/B
QS3/300/16	3 Pole Cross Connection Bar for HSKG300/M16/B/B

STUD TERMINAL SETS - INCLUDING COVERS / END STOPS / DIN RAIL



Stud Terminal Set

HSKG/190A/3P	3 Pole - 190A - 3 x HSKG70M8/B/B with Beige Covers
HSKG/190A/4P	4 Pole - 190A - 4 x HSKG70M8/B/B with Beige Covers
HSKG/190A/3PY	3 Pole - 190A - 3 x HSKG70M8/B/B with YELLOW Covers
HSKG/190A/4PY	4 Pole - 190A - 4 x HSKG70M8/B/B with YELLOW Covers
HSKG/260A/3P	3 Pole - 260A - 3 x HSKG120M10/B/B with Beige Covers
HSKG/260A/4P	4 Pole - 260A - 4 x HSKG120M10/B/B with Beige Covers
HSKG/260A/3PY	3 Pole - 260A - 3 x HSKG120M10/B/B with YELLOW Covers
HSKG/260A/4PY	4 Pole - 260A - 4 x HSKG120M10/B/B with YELLOW Covers
HSKG/350A/3PY	3 Pole - 350A - 3 x HSKG185M12/B/B with YELLOW Covers
HSKG/350A/4PY	4 Pole - 350A - 4 x HSKG185M12/B/B with YELLOW Covers
HSKG/520A/3PY	3 Pole - 520A - 3 x HSKG300M16/B/B with YELLOW Covers
HSKG/520A/4PY	4 Pole - 520A - 4 x HSKG300M16/B/B with YELLOW Covers

Please contact us for more Customised Solutions



PLUG-IN CONNECTION SYSTEM - PK-TS

PK-TS PLUG-IN CONNECTION SYSTEM



PK-TS/10/5,08



PKB 1100/6/5,08



PK-TS Complete Solution



PK-TS Complete Solution

PK-TS/2/5,08	2 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/3/5,08	3 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/4/5,08	4 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/5/5,08	5 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/6/5,08	6 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/8/5,08	8 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/12/5,08	12 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/13/5,08	13 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/14/5,08	14 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/15/5,08	15 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PK-TS/16/5,08	16 Pole PK-TS Base Terminal for TS35 DIN Rail Mounting
PKB 1100/2/5,08	2 Pole PK-TS Plug Terminal
PKB 1100/3/5,08	3 Pole PK-TS Plug Terminal
PKB 1100/4/5,08	4 Pole PK-TS Plug Terminal
PKB 1100/5/5,08	5 Pole PK-TS Plug Terminal
PKB 1100/6/5,08	6 Pole PK-TS Plug Terminal
PKB 1100/8/5,08	8 Pole PK-TS Plug Terminal
PKB 1100/10/5,08	10 Pole PK-TS Plug Terminal
PKB 1100/12/5,08	12 Pole PK-TS Plug Terminal
PKB 1100/16/5,08	16 Pole PK-TS Plug Terminal

For more PK-TS terminal solutions - contact us

SCREW TERMINALS - ACCESSORIES

END COVERS



End Covers

AP2.5-10	End Cover for RK2.5, RK2.5-4 & RK6-10
AP16	End Cover for RK16PA
AP35	End Cover for RK35PA
AP2.5-10B	End Cover for RK2.5, RK2.5-4 & RK6-10 (Blue)
AP2.5-10R	End Cover for RK2.5, RK2.5-4 & RK6-10 (Red)
AP2.5-10Y	End Cover for RK2.5, RK2.5-4 & RK6-10 (Yellow)
AP2.5-10W	End Cover for RK2.5, RK2.5-4 & RK6-10 (White)
AP2.5-10O	End Cover for RK2.5, RK2.5-4 & RK6-10 (Orange)
AP2.5-10BL	End Cover for RK2.5, RK2.5-4 & RK6-10 (Black)
AP16B	End Cover for RK16PA (Blue)
AP35B	End Cover for RK35PA (Blue)
AP35G	End Cover for RK35PA (Green)

INSULATION PLATES



TRS1	Insulation Plate for 4, 6, 10mm Terminals
TRS3	Insulation Plate for 2.5mm Terminals

PARTITION PLATES



TWMF(O)

TW2.5-10	Partition Plate for RK2.5, RK2.5-4 & RK6-10
TW16	Partition Plate for RK16
TW35	Partition Plate for RK35
TWMF	Terminal Separator Plate
TWMF(O)	Terminal Separator Plate (Orange)
AD3	Clear Cover Profile - 1000mm

SCREW TERMINALS - ACCESSORIES

TERMINAL COVERS



ADQ



EA Type
Terminal Covers



AD1 Type
Terminal Covers



AD4 Type
Terminal Covers

ADQ	Connection Bridge Cover - Clear
ADQW	Connection Bridge Cover - White
EA1	Universal Terminal Cover
EA1W	Universal Terminal Cover - White
EA1Y	Universal Terminal Cover - Yellow
AD1/5	Terminal Cover for RK2.5
AD1/5N	Terminal Cover for RK2.5N2Q
AD1/5B	Terminal Cover for RK2.5 - Arrow Marking
AD1/6	Terminal Cover for RK2.5-4
AD1/6B	Terminal Cover for RK2.5-4 - Arrow Marking
AD1/8	Terminal Cover for RK6-10
AD1/8B	Terminal Cover for RK6-10 - Arrow Marking
AD1/12B	Terminal Cover for RK16 - Arrow Marking
AD1/16B	Terminal Cover for RK35 - Arrow Marking
AD1/50B	Terminal Cover for RK50 - Arrow Marking
AD1/95B	Terminal Cover for RK95 - Arrow Marking
AD1/150B	Terminal Cover for RK150 - Arrow Marking
AD1/240B	Terminal Cover for RK240 - Arrow Marking
AD4/24B/E	Warning Cover for RK2.54 - Arrow Marking
AD4/32B/E	Warning Cover for RK6-10 - Arrow Marking
BSKM3x22	Fastening Screw for AD4...B/E

SCREW TERMINALS - ACCESSORIES

CROSS CONNECTION BARS - INSULATED



QI3(4)

QI2(4)	2 Pole Insulated Cross Connection (2740.2) - RK2.5-4, RK2.5-4ZR(L) - 32A
QI3(4)	3 Pole Insulated Cross Connection (2741.2) - RK2.5-4, RK2.5-4ZR(L) - 32A
QI4(4)	4 Pole Insulated Cross Connection (2742.2) - RK2.5-4, RK2.5-4ZR(L) - 32A
QI10(4)	10 Pole Insulated Cross Connection (2743.2) - RK2.5-4, RK2.5-4ZR(L) - 32A
QI2(10)	2 Pole Insulated Cross Connection (2750.2) - RK6-10, PTK Series - 57A
QI3(10)	3 Pole Insulated Cross Connection (2751.1) - RK6-10, PTK Series - 57A
QI4(10)	4 Pole Insulated Cross Connection (2752.2) - RK6-10, PTK Series - 57A
QI10(10)	10 Pole Insulated Cross Connection (2753.2) - RK6-10, PTK Series - 57A

CROSS CONNECTION BARS - UNINSULATED



Cross-connection Bars



Q2(10)



Q10(4)



Q2(16)

Q2(RKD4)	2 Pole Cross Connection (2087.0) - RK1.5-4/15, RKD4 - 20A
Q10(RKD4)	10 Pole Cross Connection (2090.0) - RK1.5-4/15, RKD4 - 20A
Q0.5M(RKD4)	83 (approximately) Pole Cross Connection (2150.0) - RK1.5-4/15, RKD4 - 20A
Q2(IKD2.5)	2 Pole Cross Connection (2422.0) - IK2.5, IKD2.5(Q) - 20A
Q10(IKD2.5)	10 Pole Cross Connection (2425.0) - IK2.5, IKD2.5(Q) - 20A
Q0.5M(IKD2.5)	100 (approximately) Pole Cross Connection (2151.0) - IK2.5, IKD2.5(Q) - 20A
Q2(2.5)	2 Pole Cross Connection (2567.0) - RK2.5, RKD2.5 - 20A
Q3(2.5)	3 Pole Cross Connection (2568.0) - RK2.5, RKD2.5 - 20A
Q4(2.5)	4 Pole Cross Connection (2569.0) - RK2.5, RKD2.5 - 20A
Q10(2.5)	10 Pole Cross Connection (2570.0) - RK2.5, RKD2.5 - 20A
Q0.5M(2.5)	100 (approximately) Pole Cross Connection (2152.0) - RK2.5, RKD2.5 - 20A
Q2(4)	2 Pole Cross Connection (2019.0) - RK2.5-4, RK2.5-4ZR(L) - 27A
Q3(4)	3 Pole Cross Connection (2020.0) - RK2.5-4, RK2.5-4ZR(L) - 27A
Q4(4)	4 Pole Cross Connection (2021.0) - RK2.5-4, RK2.5-4ZR(L) - 27A
Q10(4)	10 Pole Cross Connection (2022.0) - RK2.5-4, RK2.5-4ZR(L) - 27A
Q0.5M(4)	83 Pole Cross Connection (2153.0) - RK2.5-4, RK2.5-4ZR(L) - 27A
Q2(10)	2 Pole Cross Connection (2060.0) - RK6-10 - 47A
Q3(10)	3 Pole Cross Connection (2061.0) - RK6-10 - 47A
Q4(10)	4 Pole Cross Connection (2062.0) - RK6-10 - 47A
Q10(10)	10 Pole Cross Connection (2063.0) - RK6-10 - 47A
Q2(16)	2 Pole Cross Connection Bridge (2112.0) - RK16 - 47A
Q2(16/35N)	2 Pole Cross Connection Bridge (2257.0) - RK16/35N - 47A
Q3(16)	3 Pole Cross Connection Bridge (2113.0) - RK16 - 47A
Q4(16)	4 Pole Cross Connection Bridge (2114.0) - RK16 - 47A
Q10(16)	10 Pole Cross Connection Bridge (2115.0) - RK16 - 47A
Q2(35)	2 Pole Cross Connection Bridge (2164.0) - RK35 - 65A
Q3(35)	3 Pole Cross Connection Bridge (2165.0) - RK35 - 65A
Q4(35)	4 Pole Cross Connection Bridge (2166.0) - RK35 - 65A
Q10(35)	10 Pole Cross Connection Bridge (2167.0) - RK35 - 65A

SCREW TERMINALS - ACCESSORIES

EXTERNAL COMB JUMPER BARS



AQI3/5/11



AQI installed



AQV2/PEN

AQI2/5/11	2 Pole External Comb Jumper Bar - RKD2.5, IK2.5, IKD2.5(Q), BKA2.5 - 27A
AQI3/5/11	3 Pole External Comb Jumper Bar - RKD2.5, IK2.5, IKD2.5(Q), BKA2.5 - 27A
AQI4/5/11	4 Pole External Comb Jumper Bar - RKD2.5, IK2.5, IKD2.5(Q), BKA2.5 - 27A
AQI10/5/11	10 Pole External Comb Jumper Bar - RKD2.5, IK2.5, IKD2.5(Q), BKA2.5 - 27A
AQI95/5/11	95 Pole External Comb Jumper Bar - RKD2.5, IK2.5, IKD2.5(Q), BKA2.5 - 27A
AQI2/5/15	2 Pole External Comb Jumper Bar - RK2.5, RK2.5N/2Q - 27A
AQI3/5/15	3 Pole External Comb Jumper Bar - RK2.5, RK2.5N/2Q - 27A
AQI4/5/15	4 Pole External Comb Jumper Bar - RK2.5, RK2.5N/2Q - 27A
AQI10/5/15	10 Pole External Comb Jumper Bar - RK2.5, RK2.5N/2Q - 27A
AQI95/5/15	95 Pole External Comb Jumper Bar - RK2.5, RK2.5N/2Q - 27A
AQI2/6/11	2 Pole External Comb Jumper Bar - RK1.5-4/15, RKD4, BKA4 - 27A
AQI3/6/11	3 Pole External Comb Jumper Bar - RK1.5-4/15, RKD4, BKA4 - 27A
AQI4/6/11	4 Pole External Comb Jumper Bar - RK1.5-4/15, RKD4, BKA4 - 27A
AQI10/6/11	10 Pole External Comb Jumper Bar - RK1.5-4/15, RKD4, BKA4 - 27A
AQI75/6/11	75 Pole External Comb Jumper Bar - RK1.5-4/15, RKD4, BKA4 - 27A
AQI2/6/17	2 Pole External Comb Jumper Bar - RK2.5, RK2.5ZR(L), TRK1.5 - 27A
AQI3/6/17	3 Pole External Comb Jumper Bar - RK2.5, RK2.5ZR(L), TRK1.5 - 27A
AQI4/6/17	4 Pole External Comb Jumper Bar - RK2.5, RK2.5ZR(L), TRK1.5 - 27A
AQI10/6/17	10 Pole External Comb Jumper Bar - RK2.5, RK2.5ZR(L), TRK1.5 - 27A
AQI75/6/17	75 Pole External Comb Jumper Bar - RK2.5, RK2.5ZR(L), TRK1.5 - 27A
AQV2/PEN	Earth & Neutral Comb Jumper Bars for SL10/35 & RK6-10
AQI60/8/11	60 Pole Jumper Bar in Comb Style with Yellow Insulation - 8mm Pitch
AQI60/8/18	60 Pole Jumper Bar in Comb Style with Yellow Insulation - 8mm Pitch

LARGE COMB JUMPER BARS



AQI2/50

AQI2/50	2 Pole Jumper Bar for RK50
AQI3/50	3 Pole Jumper Bar for RK50
AQI2/95	2 Pole Jumper Bar for RK95
AQI3/95	3 Pole Jumper Bar for RK95
AQI2/150	2 Pole Jumper Bar for RK150
AQI3/150	3 Pole Jumper Bar for RK150
AQI2/240	2 Pole Jumper Bar for RK240
AQI3/240	3 Pole Jumper Bar for RK240

SWITCHABLE LINKS



QL2 & VH19 & BSM3x25



QL2 installed

QL2 (2076.0)	Switchable Link for RK1.5-4/15 & RKD4
VH16 (2077.0)	Connecting Sleeve for QL2(2076.0)
BSM2.5x20	Fastening Screw for QL2(2076.0)
QL2(2008.0)	Switchable Link for RK2.5-4
QL2(2053.0)	Switchable Link for RK6-10
QL2(2106.0)	Switchable Link for RK16
VH19 (2009.0)	Connecting Sleeve for QL2(2008.0), QL2(2053.0) & QL2(2106.0)
BSM3x25	Fastening Screw for QL2(2008.0), QL2(2053.0) & QL2(2106.0)

SCREW TERMINALS - ACCESSORIES

TEST PLUGS



TA5/1-ST



TA5/1-ST installed



STB products



PS4

TA5/1-ST	Modular Test Plug for RK2.5
TA5/1-Q	Modular Test Plug for RK2.5 - for Cross Connection Bars
TA6/1-ST	Modular Test Plug for RK2.5-4, RK2.5-4ZR & RK2.5-4ZRL
TA6/1-Q	Modular Test Plug for RK2.5-4, RK2.5-4ZR & ZRL - for Connection Bars
TA8/1-ST	Modular Test Plug for RK6-10
TA8/1-Q	Modular Test Plug for RK6-10 - for Cross Connection Bars
TAD5/1-S	Modular Test Plug for RKD2.5
TAD6/1-S	Modular Test Plug for RKD4
PS2.3	Test Plug
PS4	Test Plug
ZS2.3/4	Test Plug Adaptor
STB8.5/2.3	Test Socket for PS2.3
STB14/2.3	Test Socket for PS2.3
STB14/4	Test Socket for PS4
STB30.5B	Test Socket for PS4 - Blue
STB30.5BL	Test Socket for PS4 - Black
STB30.5G	Test Socket for PS4 - Green
STB30.5GR	Test Socket for PS4 - Grey
STB30.5R	Test Socket for PS4 - Red
STB30.5V	Test Socket for PS4 - Violet
STB30.5Y	Test Socket for PS4 - Yellow

END STOPS



ES35/K/ST



SES35

ES35	Small DIN Rail End Clamp
ES35/2/K	Medium two screw End Clamp
SES35	Screwless End Stop for TS35 Rail
ES35/K/ST	Medium centre screw End Clamp
ES32/35	Medium "Combi" Universal End Clamp
HES35ST	Heavy Duty Metal DIN Rail End Clamp
ES32	Small TS32 Rail End Clamp
HES32ST	Heavy Duty Metal TS32 End Clamp

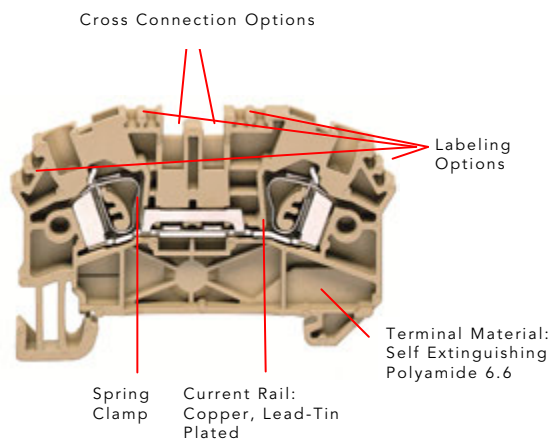
MOUNTING RAIL SUPPORT BRACKETS



TSTW/M5	48mm Mounting Rail Support Bracket
TSTW/F/M5	32mm Mounting Rail Support Bracket
TST/M5	20mm Mounting Rail Support Bracket
BS M5X8	M5 Fastening Screw for TSTW, TSTW/F, TST

SPRING CLAMP TERMINALS

TECHNICAL INFORMATION



SPRING CLAMP CONNECTION SYSTEM (ZRK)

The spring clamp principle operates similarly to the strain relief clamp principle. The high quality rust and acid resistant tension spring makes contact with the wire against the current rail.

The spring is a connection element which is maintenance free, shock-proof and has a high resistance to vibration.

Arguments for the use of Conta-Clip ZRK series spring clamp connection terminals are:

Vibration and shock-proof, shorter connection time and maintenance free.



2.5 MM² MINI SPRING CLAMP TERMINALS



- ZSRK2.5/2A Single Level 2.5mm² Spring Clamp Terminal Block - Small Profile
- ZSRK2.5/3A Single Level 2.5mm² Spring Clamp Terminal Block - Small Profile - 3 way
- ZSRK2.5/2AB Single Level 2.5mm² Spring Clamp Terminal Block - Small Profile - blue
- ZSRK2.5/3AB Single Level 2.5mm² Spring Clamp Terminal Block - Small Profile - 3 way blue



- ZSLN2.5/2A Earth Single Level 2.5mm² Spring Clamp Terminal Block - Small Profile
- ZSLN2.5/3A Earth Single Level 2.5mm² Spring Clamp Terminal Block - Small Profile - 3 way



- ZAP-SR End Cover for ZSRK2.5/2A
- ZAP-SR3A/35 End Cover for ZSRK2.5/3A
- ZAP-SRB End Cover for ZSRK2.5/2A - blue
- ZAP-SRG End Cover for ZSRK2.5/2A - green
- ZAP-SR3A/35G End Cover for ZSRK2.5/3A - green



- ZES35/2 End Stop for Small Profile Spring Clamp Terminal Range
- ZQI2.5/2 2 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/3 3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/4 3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/5 5 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/6 6 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/7 7 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/8 8 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/9 9 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/10 10 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/99 99 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals - cuttable

For more terminal options please check Accessories Pages

SPRING CLAMP TERMINALS

2.5 MM² SPRING CLAMP TERMINALS



ZRK2.5/2A Single Level 2.5mm² Spring Clamp Terminal Block

ZRK2.5/3A Single Level 2.5mm² 3 Connection Spring Clamp Terminal Block

ZRK2.5/4A Single Level 2.5mm² 4 Connection Spring Clamp Terminal Block

ZRK2.5/2x2A Single Level 2.5mm² 4 Connection Spring Clamp Terminal Block - Split



ZRK2.5/2x2A/D1 Single Level 2.5mm² 4 Connection Spring Clamp Terminal Block - Diode

ZRK2.5/2AB Single Level 2.5mm² Spring Clamp Terminal Block (Blue)

ZRK2.5/3AB Single Level 2.5mm² 3 Connection Spring Clamp Terminal Block (Blue)

ZRK2.5/4AB Single Level 2.5mm² 4 Connection Spring Clamp Terminal Block (Blue)



ZRK2.5/2AO Single Level 2.5mm² Spring Clamp Terminal Block (Orange)

ZRK2.5/3AO Single Level 2.5mm² 3 Connection Spring Clamp Terminal Block (Orange)

ZSL2.5/2A Earth 2.5mm² Spring Clamp Terminal Block

ZSL2.5/3A Earth 2.5mm² 3 Connection Spring Clamp Terminal Block



ZSL2.5/4A Earth 2.5mm² 4 Connection Spring Clamp Terminal Block

ZAP2.5/2A End Cover for ZRK2.5/2A

ZAP2.5/3A End Cover for ZRK2.5/3A

ZAP2.5/4A End Cover for ZRK2.5/4A



ZAP2.5/2AB End Cover for ZRK2.5/2A (Blue)

ZAP2.5/3AB End Cover for ZRK2.5/3A (Blue)

ZAP2.5/4AB End Cover for ZRK2.5/4A (Blue)

ZAP2.5/2AO End Cover for ZRK2.5/2A (Orange)



ZAP2.5/2AG End Cover for ZSL2.5/2A (Green)

ZAP2.5/3AG End Cover for ZSL2.5/3A (Green)

ZAP2.5/4AG End Cover for ZSL2.5/4A (Green)

ZES35 End Stop for Small Profile Spring Clamp Terminal Range



ZQI2.5/2 2 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/3 3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/4 3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/5 5 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/6 6 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/7 7 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/8 8 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/9 9 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/10 10 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/99 99 Pole Push-in Cross Connection Bar for Z Series 2.5mm² Terminals - cuttable

For more terminal options please check Accessories Pages

SPRING CLAMP TERMINALS

4 MM² SPRING CLAMP TERMINALS



ZRK4/2A Single Level 4 mm² Spring Clamp Terminal Block

ZRK4/3A Single Level 4 mm² 3 Connection Spring Clamp Terminal Block

ZRK4/4A Single Level 4 mm² 4 Connection Spring Clamp Terminal Block

ZRK4/2x2A Single Level 4 mm² 4 Connection Spring Clamp Terminal Block - Split



ZRK4/2AB Single Level 4 mm² Spring Clamp Terminal Block (Blue)

ZRK4/3AB Single Level 4 mm² 3 Connection Spring Clamp Terminal Block (Blue)

ZRK4/4AB Single Level 4 mm² 4 Connection Spring Clamp Terminal Block (Blue)

ZSL4/2A Earth 4 mm² Spring Clamp Terminal Block



ZSL4/3A Earth 4 mm² 3 Connection Spring Clamp Terminal Block

ZSL4/4A Earth 4 mm² 4 Connection Spring Clamp Terminal Block

ZAP4/2A End Cover for ZRK4/2A

ZAP4/3A End Cover for ZRK4/3A



ZAP4/4A End Cover for ZRK4/4A

ZAP4/2AB End Cover for ZRK4/2A (Blue)

ZAP4/3AB End Cover for ZRK4/3A (Blue)



ZAP4/4AB End Cover for ZRK4/4A (Blue)

ZAP4/2AO End Cover for ZRK4/2A (Orange)

ZAP4/2AG End Cover for ZSL4/2A (Green)

ZAP4/3AG End Cover for ZSL4/3A (Green)

ZAP4/4AG End Cover for ZSL4/4A (Green)



ZES35 End Stop for Small Profile Spring Clamp Terminal Range

ZQ14/2 2 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQ14/3 3 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQ14/4 4 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQ14/5 5 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQ14/6 6 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQ14/7 7 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQ14/8 8 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQ14/9 9 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQ14/10 10 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

For more terminal options please check Accessories Pages

SPRING CLAMP TERMINALS

6 MM² SPRING CLAMP TERMINALS



- ZRK6/2A Single Level 6 mm² Spring Clamp Terminal Block
- ZRK6/2AB Single Level 6 mm² Spring Clamp Terminal Block (Blue)
- ZSL6/2A Earth 6 mm² Spring Clamp Terminal Block
- ZAP6/2A End Cover for ZRK6/2A
- ZAP6/2AB End Cover for ZRK6/2A (Blue)
- ZAP6/2AG End Cover for ZSL6/2A (Green)



- ZES35 End Stop for Small Profile Spring Clamp Terminal Range
- ZQI6/2 2 Pole Push-in Cross Connection Bar for all Z Series 6mm² Terminals
- ZQI6/3 3 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals
- ZQI6/4 4 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals
- ZQI6/5 5 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals
- ZQI6/6 6 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals
- ZQI6/7 7 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals
- ZQI6/8 8 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals
- ZQI6/9 9 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals
- ZQI6/10 10 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals



For more terminal options please check Accessories Pages

10 MM² SPRING CLAMP TERMINALS



- ZRK10/2A Single Level 10 mm² Spring Clamp Terminal Block
- ZRK10/2AB Single Level 10 mm² Spring Clamp Terminal Block (Blue)
- ZSL10/2A Earth 10 mm² Spring Clamp Terminal Block
- ZAP10/2A End Cover for ZRK10/2A
- ZAP10/2AB End Cover for ZRK10/2A (Blue)
- ZAP10/2AG End Cover for ZRK10/2A (Green)
- ZES35 End Stop for Small Profile Spring Clamp Terminal Range
- ZQI10/2 2 Pole Push-in Cross Connection Bar for all Z Series 10mm² Terminals



For more terminal options please check Accessories Pages

16 MM² SPRING CLAMP TERMINALS



- ZRK16/2A Single Level 16 mm² Spring Clamp Terminal Block
- ZRK16/2AB Single Level 16 mm² Spring Clamp Terminal Block (Blue)
- ZSL16/2A Earth 16 mm² Spring Clamp Terminal Block
- ZAP16/2A End Cover for ZRK16/2A
- ZAP16/2AB End Cover for ZRK16/2A (Blue)
- ZAP16/2AG End Cover for ZRK16/2A (Green)
- ZES35 End Stop for Small Profile Spring Clamp Terminal Range
- ZQI16/2 2 Pole Push-in Cross Connection Bar for all Z Series 16mm² Terminals



For more terminal options please check Accessories Pages

SPRING CLAMP TERMINALS

2.5 MM² DUAL LEVEL SPRING CLAMP TERMINALS



- ZRKD2.5 Dual Level 2.5mm² Spring Clamp Terminal Block
- ZRKD2.5SV Dual Level 2.5mm² Terminal Block - Link between Upper & Lower Level
- ZRKD2.5N-DU Dual Level 2.5mm² Spring Clamp Terminal Block - Neutral Identification
- ZRKD2.5DU-PE Dual Level 2.5mm² Spring Clamp Terminal Block - Lower Terminal Earth
- ZRKD2.5N-PE Dual Level 2.5mm² Spring Clamp Terminal Block - Neutral & Earth



- ZRKD2.5/D1 Dual Level 2.5mm² Spring Clamp Terminal with Diode
- ZRKD2.5/D5 Dual Level 2.5mm² Spring Clamp Terminal with Diode
- ZRKD2.5LED2 Dual Level 2.5mm² Spring Clamp Terminal with LED indication



- ZAPD2.5 End Cover for ZRDK2.5
- ZAPD2.5B End Cover for ZRDK2.5 (Blue)
- ZAPD2.5O End Cover for ZRDK2.5 (Orange)



- ZBA1 ZRKD Series Marking Adaptor
- ZES35 End Stop for Small Profile Spring Clamp Terminal Range



- ZQI2.5/2 2 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/3 3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/4 3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/5 5 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/6 6 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/7 7 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/8 8 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/9 9 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/10 10 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZVQI2.5 Z Series Vertical Link
- ZQI2.5/99 99 Pole Push-in Cross Connection Bar for Z Series 2.5mm² Terminals - cutable

2.5 MM² MULTIPLE LEVEL SPRING CLAMP TERMINALS



- ZIKD2.5 Three Level 2.5mm² Spring Clamp Terminal
- ZIKD2.5B Three Level 2.5mm² Spring Clamp Terminal (Blue)
- ZIKD2.5/SV Three Level 2.5mm² Spring Clamp Terminal - Link between Terminals
- ZIKD2.5PE/L/L Three Level 2.5mm² Spring Terminal - Lower Terminal Earth, others identified
- ZIKD2.5/PE/L/N Three Level 2.5mm² Spring Terminal - Lower Terminal Earth, others identified
- ZIKD2.5/SV/PE Three Level 2.5mm² Spring Clamp Terminal - Earth Terminal



- ZAP/ID2.5 End Cover for ZIDK 2.5
- ZVMAK2.5 Three Level plus Earth 2.5mm² Spring Clamp Terminal
- ZAP/VMAK2.5 End Cover for ZVMAK2.5



- ZES35 End Stop for Small Profile Spring Clamp Terminal Range
- ZQI2.5/2 2 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZQI2.5/10 10 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
- ZVQI2.5 Z Series Vertical Link
- ZQI2.5/99 99 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals - cutable

For more terminal options please check Accessories Pages

SPRING CLAMP TERMINALS

KNIFE BLADE DISCONNECT 2.5 MM² SPRING CLAMP TERMINALS



ZTRK2.5/2A/MT	2.5 mm ² Knife Blade Disconnect Spring Clamp Terminal
ZTRK2.5/3A/MT	2.5 mm ² Knife Blade Disconnect Spring Clamp Terminal - 3 connection
ZTRK2.5/4A/MT	2.5 mm ² Knife Blade Disconnect Spring Clamp Terminal - 4 connection
ZAPT2.5/2A	End Cover for ZTRK2.5 Series Terminal
ZAPT2.5/3A	End Cover for ZTRK2.5 Series Terminal - 3 connection
ZAPT2.5/4A	End Cover for ZTRK2.5 Series Terminal - 4 connection

For more terminal options please check Accessories Pages

INSERT TYPE DISCONNECT 2.5 MM² SPRING CLAMP TERMINALS



ZTRK2.5/2A/ST	2.5 mm ² Insert Type Disconnect Spring Clamp Terminal
ZTRK2.5/3A/ST	2.5 mm ² Insert Type Disconnect Spring Clamp Terminal - 3 connection
ZTRK2.5/4A/ST	2.5 mm ² Insert Type Disconnect Spring Clamp Terminal - 4 connection
ZAPT2.5/2A	End Cover for ZTRK2.5 Series Terminal
ZAPT2.5/3A	End Cover for ZTRK2.5 Series Terminal - 3 connection
ZAPT2.5/4A	End Cover for ZTRK2.5 Series Terminal - 4 connection

For more terminal options please check Accessories Pages

AUTO FUSE / DIODE INSERT 2.5 MM² SPRING CLAMP TERMINALS



ZTRK2.5/2A/OT	2.5 mm ² Insert Base Only Spring Clamp Terminal
ZTRK2.5/3A/OT	2.5 mm ² Insert Base Only Spring Clamp Terminal - 3 connection
ZTRK2.5/4A/OT	2.5 mm ² Insert Base Only Spring Clamp Terminal - 4 connection
ZDS1/ZTR	Insert for ZTRK2.5/XA/OT - Solid Link
ZDS2/ZTR	Insert for ZTRK2.5/XA/OT - Diode Link (Diode 1N4007)
ZDS3/ZTR	Insert for ZTRK2.5/XA/OT - Diode Link (Diode 1N4007)
ZDS4/ZTR	Insert for ZTRK2.5/XA/OT - Open Link
SI-C0.5A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 0.5A/32V
SI-C1A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 1A/32V
SI-C2A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 2A/32V
SI-C3A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 3A/32V
SI-C4A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 4A/32V
SI-C5A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 5A/32V
SI-C7.5A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 7.5A/32V
SI-C10A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 10A/32V
SI-C15A	Auto Type Fuse suitable for ZTRK2.5/XA/OT - 15A/32V
ZAPT2.5/2A	End Cover for ZTRK2.5 Series Terminal
ZAPT2.5/3A	End Cover for ZTRK2.5 Series Terminal - 3 connection
ZAPT2.5/4A	End Cover for ZTRK2.5 Series Terminal - 4 connection

For more terminal options please check Accessories Pages

SPRING CLAMP TERMINALS

FUSE 2.5 MM² SPRING CLAMP TERMINALS



ZTRK2.5/2A/ZS 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse Link
ZTRK2.5/2A/ZS36 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 10V-36V Indication
ZTRK2.5/2A/ZS70 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 35V-70V Indication
ZTRK2.5/2A/ZS150 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 60V-150V Indication
ZTRK2.5/2A/ZS250 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 140V-250V Indication



ZTRK2.5/3A/ZS 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse Links - 2/1
ZTRK2.5/3A/ZS36 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 10V-36V Indic.- 2/1
ZTRK2.5/3A/ZS70 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 35V-70V Indic.- 2/1
ZTRK2.5/3A/ZS150 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 60V-150V Indic.- 2/1
ZTRK2.5/3A/ZS250 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 140V-250V Indic.- 2/1



ZTRK2.5/4A/ZS 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse Links - 2/2
ZTRK2.5/4A/ZS36 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 10V-36V Indication - 2/2
ZTRK2.5/4A/ZS70 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 35V-70V Indication - 2/2
ZTRK2.5/4A/ZS150 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 60V-150V Indic.- 2/2
ZTRK2.5/4A/ZS250 2.5 mm² Fuse Terminal - 6.3 Amp - 5x20 Fuse - 140V-250V Indic.- 2/2

ZTRK2.5/2A/OT 2.5 mm² Insert Base Spring Clamp Terminal
ZTRK2.5/3A/OT 2.5 mm² Insert Base Spring Clamp Terminal - 3 connection
ZTRK2.5/4A/OT 2.5 mm² Insert Base Spring Clamp Terminal - 4 connection
ZS/HO/ZTR Insert for ZTRK2.5/XA/OT - 6.3 Amp - 5x20 Fuse Link
ZS/H1/ZTR/36 Insert for ZTRK2.5/XA/OT - 6.3 Amp - 5x20 Fuse Link - 10V-36V Indication
ZS/H2/ZTR/70 Insert for ZTRK2.5/XA/OT - 6.3 Amp - 5x20 Fuse Link - 35V-70V Indication
ZS/H3/ZTR/150 Insert for ZTRK2.5/XA/OT - 6.3 Amp - 5x20 Fuse Link - 60V-150V Indication
ZS/H4/ZTR/250 Insert for ZTRK2.5/XA/OT - 6.3 Amp - 5x20 Fuse Link - 140V-250V Indication
ZAPT2.5/2A End Cover for ZTRK2.5 Series Terminal
ZAPT2.5/3A End Cover for ZTRK2.5 Series Terminal - 3 connection
ZAPT2.5/4A End Cover for ZTRK2.5 Series Terminal - 4 connection

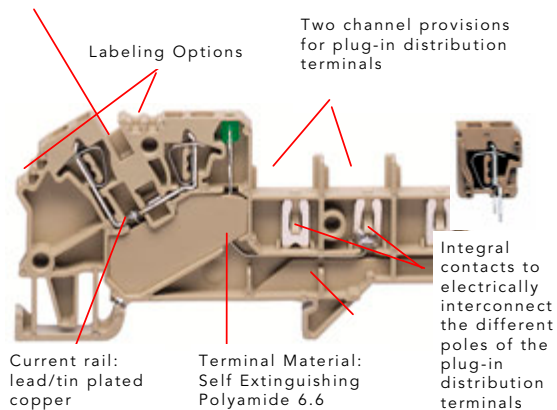
For more terminal options please check Accessories Pages



SPRING CLAMP TERMINALS - ZINI ZAKTO

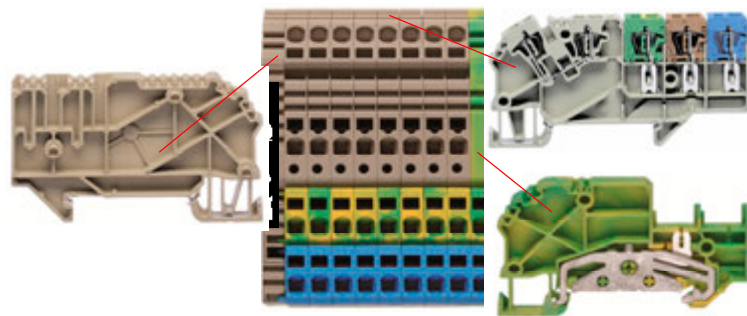
TECHNICAL INFORMATION

Signal terminal cross connection option



ZINI ZAKTO TERMINAL ASSEMBLY

Consisting of: 8x ZIZA1.5/4, 1x ZIZA1.5/4/PE, 1x ZAP/TW, ZIZA 1.5/4 and 9 x ZPL1.5B, 9 x ZPL1.5BR, 9 x ZPL1.5PE



1.5 MM² SENSOR / ACTUATOR CONTROL SPRING CLAMP TERMINAL SYSTEM - ZINI ZAKTO

	ZIZA1.5/3	3 Pole 1.5mm² Zini Zakto Spring Clamp Terminal Base Block
	ZIZA1.5/3/PE	3 Pole 1.5mm² Zini Zakto Spring Clamp Terminal Base Block (including Earth)
	ZIZA1.5/4	4 Pole 1.5mm² Zini Zakto Spring Clamp Terminal Base Block
	ZIZA1.5/4/PE	4 Pole 1.5mm² Zini Zakto Spring Clamp Terminal Base Block (including Earth)
	ZPL1.5	Zini Zakto 1.5mm² Spring Clamp Terminal Potential Distributor Block
	ZPL1.5B	Zini Zakto 1.5mm² Spring Clamp Terminal Potential Distributor Block (Blue)
	ZPL1.5BR	Zini Zakto 1.5mm² Spring Clamp Terminal Potential Distributor Block (Brown)
	ZPL1.5PE	Zini Zakto 1.5mm² Spring Clamp Terminal Potential Distributor Block (Green)
	ZAP/ZIZA1.5/3	Zini Zakto 3 Pole Zini Zakto Spring Clamp Terminal End Cover
	ZAP/ZIZA1.5/4	Zini Zakto 4 Pole Zini Zakto Spring Clamp Terminal End Cover
	ZES35/2	End Stop for Small Profile Spring Clamp Terminal Range
	ZQI2.5/2	2 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/3	3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/4	3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/5	5 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/6	6 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/7	7 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/8	8 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/9	9 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/10	10 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals
	ZQI2.5/99	99 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals - cutable

For more terminal options please check Accessories Pages

SPRING CLAMP TERMINALS

PUSH-IN CROSS CONNECTION BARS



ZQI2.5/2 2 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/3 3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/4 3 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/5 5 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/6 6 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/7 7 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/8 8 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/9 9 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/10 10 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals

ZQI2.5/99 99 Pole Push-in Cross Connection Bar for all Z Series 2.5mm² Terminals - cutable



ZQI4/2 2 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQI4/3 3 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQI4/4 4 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQI4/5 5 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQI4/6 6 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQI4/7 7 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQI4/8 8 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQI4/9 9 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals

ZQI4/10 10 Pole Push-in Cross Connection Bar for all Z Series 4 mm² Terminals



ZQI6/2 2 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals

ZQI6/3 3 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals

ZQI6/4 4 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals

ZQI6/5 5 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals

ZQI6/6 6 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals

ZQI6/7 7 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals

ZQI6/8 8 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals

ZQI6/9 9 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals

ZQI6/10 10 Pole Push-in Cross Connection Bar for all Z Series 6 mm² Terminals



ZQI10/2 2 Pole Push-in Cross Connection Bar for all Z Series 10mm² Terminals

ZQI16/2 2 Pole Push-in Cross Connection Bar for all Z Series 16mm² Terminals

SPRING CLAMP TERMINALS

TERMINAL ACCESSORIES



ZES35
ZES35/2
ZAD2.5/4B
ZAD4/4B
ZAD6/4B
ZTA2.5
ZTA4

Z Series Push-in End Clamp
End Stop for Small Profile Spring Clamp Terminal Range
Warning Cover for ZRK2.5 Terminals - 4 way
Warning Cover for ZRK4 Terminals - 4 way
Warning Cover for ZRK6 Terminals - 4 way
Test Plug for ZRK2.5 Terminals
Test Plug for ZRK4 Terminals



ZVQ12.5
ZSchT1
ZSchT2
ZSchT3
ZSchT4
ZSchT5
ZSchT6
ZSchT6P

Z Series Vertical Link
Marking Carrier for ZES35
Marking Carrier for ZES35
Marking Carrier for ZES35
Marking Carrier for ZES35
Marking Carrier for ZES35
Marking Carrier for ZES35
Marking Carrier for ZES35 - printed

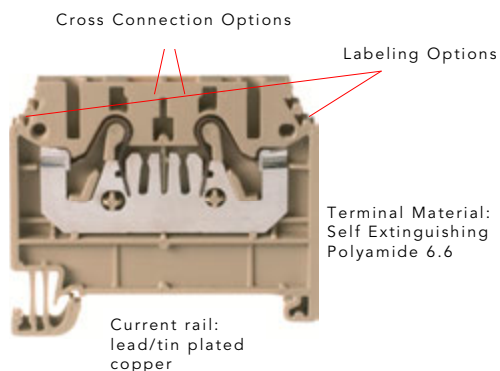


ESO1
ESO3
STR
STR3
BW1-ZRK
BW5-ZRK
BW10-ZRK
BWMA1(0,5x2,5mm)
BWMA1(0,5x3,5mm)

Blank Tag Insert for ZSchT1, ZSchT2, ZSchT3, ZSchT4 - 10 Tags
Blank Tag Insert for ZSchT5 - 10 Tags
Protective Cover for ESO
Protective Cover for ESO3
2.5mm² Spring Clamp Terminal Insertion Tool - 1 Pole
2.5mm² Spring Clamp Terminal Insertion Tool - 5 Pole
2.5mm² Spring Clamp Terminal Insertion Tool - 10 Pole
Spring Clamp Terminal Metal Insertion Tool - (FRK 2.5, FRK 2.5-4)
Spring Clamp Terminal Metal Insertion Tool - (Z Series)

PRESSURE SPRING (PUSH-IN) TERMINALS

TECHNICAL INFORMATION



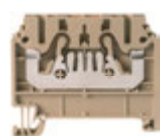
PRESSURE SPRING CONNECTION SYSTEM (FRK)

CONTA-CLIP was the first company in the world to release their pressure spring connection terminal range. The FRK system offers the easiest installation with maximum contact security! This connection element unites the advantages of the spring clamp terminal with the possibility to connect wires without tools!

Solid conductors or stranded conductors with ferrules can be inserted directly into the terminal. Connection with the contact rail is established automatically when the wire is inserted. Arguments for the pressure spring terminals are: direct connection without the need of tools, easy-to-use, compact construction and can save up to 80% wiring time.



1.5 MM² PRESSURE SPRING (PUSH-IN) TERMINALS



FRK1.5/2A



FSL1.5/3A



FRK1.5/4A

- | | |
|---------------------|---|
| FRK1.5/2A | Single Level 1.5mm ² Push-in Spring Clamp Terminal Block |
| FRK1.5/2AB | Single Level 1.5mm ² Push-in Spring Clamp Terminal Block (Blue) |
| FRK1.5/3A | Single Level 1.5mm ² 3 Connection Push-in Spring Clamp Terminal Block |
| FRK1.5/3AB | Single Level 1.5mm ² 3 Connection Push-in Spring Clamp Terminal Block (Blue) |
| FRK1.5/4A | Single Level 1.5mm ² 4 Connection Push-in Spring Clamp Terminal Block |
| FRK1.5/4AB | Single Level 1.5mm ² 4 Connection Push-in Spring Clamp Terminal Block (Blue) |
| FSL1.5/2A | Earth 1.5mm ² Push-in Spring Clamp Terminal Block |
| FSL1.5/3A | Earth 1.5mm ² 3 Connection Push-in Spring Clamp Terminal Block |
| FSL1.5/4A | Earth 1.5mm ² 4 Connection Push-in Spring Clamp Terminal Block |
| FAP1.5-4/2A | End Cover for FRK1.5/2A |
| FAP1.5/3A | End Cover for FRK1.5/3A |
| FAP1.5/4A | End Cover for FRK1.5/2A |
| FAP1.5-4/2AB | End Cover for FRK1.5/2A (Blue) |
| FAP1.5/3AB | End Cover for FRK1.5/3A (Blue) |
| FAP1.5/4AB | End Cover for FRK1.5/4A (Blue) |
| FAP1.5-4/2AG | End Cover for FSL1.5/2A (Green) |
| FAP1.5/3AG | End Cover for FL1.5/3A (Green) |
| FAP1.5/4AG | End Cover for FSL1.5/4A (Green) |

FRK1.5 Pressure Spring Terminals continue on next page

PUSH-IN TERMINALS - 1.5 / 2.5 MM²

1.5 MM² PRESSURE SPRING (PUSH-IN) TERMINALS - CONTINUED

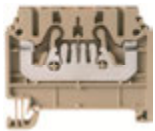


FQI1.5/3 installed

FQI 1.5/2	2 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals
FQI 1.5/3	3 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals
FQI 1.5/4	3 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals
FQI 1.5/5	5 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals
FQI 1.5/6	6 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals
FQI 1.5/7	7 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals
FQI 1.5/8	8 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals
FQI 1.5/9	9 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals
FQI 1.5/10	10 Pole Push-in Cross Connection Bar for all FRK 1.5mm² Terminals

For more terminal options please check Accessories Pages

2.5 MM² PRESSURE SPRING (PUSH-IN) TERMINALS



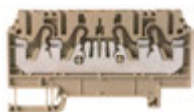
FRK2.5/2A

FRK2.5/2A	Single Level 2.5mm² Push-in Spring Clamp Terminal Block
FRK2.5/2AB	Single Level 2.5mm² Push-in Spring Clamp Terminal Block (Blue)
FRK2.5/3A	Single Level 2.5mm² 3 Connection Push-in Spring Clamp Terminal Block
FRK2.5/3AB	Single Level 2.5mm² 3 Connection Push-in Spring Clamp Terminal Block (Blue)
FRK2.5/4A	Single Level 2.5mm² 4 Connection Push-in Spring Clamp Terminal Block
FRK2.5/4AB	Single Level 2.5mm² 4 Connection Push-in Spring Clamp Terminal Block (Blue)



FSL2.5/3A

FSL2.5/2A	Earth 2.5mm² Push-in Spring Clamp Terminal Block
FSL2.5/3A	Earth 2.5mm² 3 Connection Push-in Spring Clamp Terminal Block
FSL2.5/4A	Earth 2.5mm² 4 Connection Push-in Spring Clamp Terminal Block



FRK2.5/4A

FAP1.5-4/2A	End Cover for FRK2.5/2A
FAP2.5/3A	End Cover for FRK2.5/3A
FAP2.5/4A	End Cover for FRK2.5/2A
FAP1.5-4/2AB	End Cover for FRK2.5/2A (Blue)
FAP2.5/3AB	End Cover for FRK2.5/3A (Blue)
FAP2.5/4AB	End Cover for FRK2.5/4A (Blue)
FAP1.5-4/2AG	End Cover for FSL2.5/2A (Green)
FAP2.5/3AG	End Cover for FSL2.5/3A (Green)
FAP2.5/4AG	End Cover for FSL2.5/4A (Green)



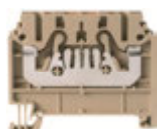
FQI2.5 installed

FQI 2.5/2	2 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals
FQI 2.5/3	3 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals
FQI 2.5/4	3 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals
FQI 2.5/5	5 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals
FQI 2.5/6	6 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals
FQI 2.5/7	7 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals
FQI 2.5/8	8 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals
FQI 2.5/9	9 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals
FQI 2.5/10	10 Pole Push-in Cross Connection Bar for all FRK 2.5mm² Terminals

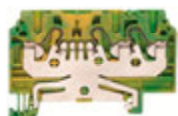
For more terminal options please check Accessories Pages

PUSH-IN TERMINALS - 4MM²

4MM² PRESSURE SPRING (PUSH-IN) TERMINALS



FRK4/2A



FSL4/3A



FRK4/4A



FQI4 installed

FRK4/2A	Single Level 4mm ² Push-in Spring Clamp Terminal Block
FRK4/2AB	Single Level 4mm ² Push-in Spring Clamp Terminal Block (Blue)
FRK4/3A	Single Level 4mm ² 3 Connection Push-in Spring Clamp Terminal Block
FRK4/3AB	Single Level 4mm ² 3 Connection Push-in Spring Clamp Terminal Block (Blue)
FRK4/4A	Single Level 4mm ² 4 Connection Push-in Spring Clamp Terminal Block
FRK4/4AB	Single Level 4mm ² 4 Connection Push-in Spring Clamp Terminal Block (Blue)
FSL4/2A	Earth 4mm ² Push-in Spring Clamp Terminal Block
FSL4/3A	Earth 4mm ² 3 Connection Push-in Spring Clamp Terminal Block
FSL4/4A	Earth 4mm ² 4 Connection Push-in Spring Clamp Terminal Block
FAP1.5-4/2A	End Cover for FRK4/2A
FAP4/3A	End Cover for FRK4/3A
FAP4/4A	End Cover for FRK4/4A
FAP1.5-4/2AB	End Cover for FRK4/2A (Blue)
FAP4/3AB	End Cover for FRK4/3A (Blue)
FAP4/4AB	End Cover for FRK4/4A (Blue)
FAP1.5-4/2AG	End Cover for FSL4/2A (Green)
FAP4/3AG	End Cover for FSL2.5/3A (Green)
FAP4/4AG	End Cover for FSL4/4A (Green)
FQI 4/2	2 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/3	3 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/4	3 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/5	5 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/6	6 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/7	7 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/8	8 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/9	9 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/10	10 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals

For more terminal options please check Accessories Pages

PUSH-IN TERMINALS - DUAL / THREE LEVEL

DUAL LEVEL 2.5 MM² PRESSURE SPRING (PUSH-IN) TERMINALS



FRKD2.5

FRKD2.5	Dual Level 2.5mm ² Push-in Terminal
FRKD2.5SV	Dual Level 2.5mm ² Push-in Terminal - Link between Upper & Lower Terminal
FSLD2.5	Earth Dual Level 2.5mm ² Push-in Terminal
FAPD2.5	End Cover for FRKD2.5
FAPD2.5G	End Cover for FSLD2.5 (Green)
ZES35	End Stop for Small Profile Spring Clamp Terminal Range
FQI 2.5/2	2 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
FQI 2.5/3	3 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
FQI 2.5/4	3 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
FQI 2.5/5	5 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
FQI 2.5/6	6 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
FQI 2.5/7	7 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
FQI 2.5/8	8 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
FQI 2.5/9	9 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
FQI 2.5/10	10 Pole Push-in Cross Connection Bar for all FRK 2.5mm ² Terminals
ZVQI2.5	Z Series Vertical Link



FQI2.5/3 installed

For more terminal options please check Accessories Pages

THREE LEVEL 4 MM² PRESSURE SPRING (PUSH-IN) TERMINALS



FDLIS2.5-4N/L/PE

FDLIS2.5-4N/L/PE	Three Level 4mm ² Push-in Terminal - L, N & Earth
FDLIS2.5-4L/L/PE	Three Level 4mm ² Push-in Terminal - L, L & Earth
FDLIS2.5-4L/L	Three Level 4mm ² Push-in Terminal - L & L
FAP4/S	End Cover for FLDIS Series
ZES35	End Stop for Small Profile Spring Clamp Terminal Range
FQI 2.5-4/2	2 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals
FQI 2.5-4/3	3 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals
FQI 2.5-4/4	4 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals
FQI 2.5-4/5	5 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals
FQI 2.5-4/6	6 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals
FQI 2.5-4/7	7 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals
FQI 2.5-4/8	8 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals
FQI 2.5-4/9	9 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals
FQI 2.5-4/10	10 Pole Push-in Cross Connection Bar for FDLIS Series 4mm ² Terminals



FQI2.5/2

For more terminal options please check Accessories Pages

PUSH-IN TERMINALS - FUSE TERMINALS

PRESSURE SPRING (PUSH-IN) FUSE TERMINALS



FSIK4/2

FSIK4/2	4mm ² Push-in spring clamp Fuse Terminal for 5x20 fuse link
FSIK4/2/LED/12-30	4mm ² Push-in spring clamp Fuse Terminal with indication - 12-30VAC/DC
FSIK4/2/LED/30-60	4mm ² Push-in spring clamp Fuse Terminal with indication - 30-60VAC/DC
FSIK4/2/LED/110-250	4mm ² Push-in Fuse Terminal with indication - 110-250VAC/DC



FQI4/2

FAPSI	End cover for FSIK4/2 Fuse Terminals
FQI 4/2	2 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/3	3 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/4	3 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/5	5 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/6	6 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/7	7 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/8	8 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/9	9 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals
FQI 4/10	10 Pole Push-in Cross Connection Bar for all FRK 4mm ² Terminals

PRESSURE SPRING (PUSH-IN) TERMINAL ACCESSORIES



ZES35



ZES35/2

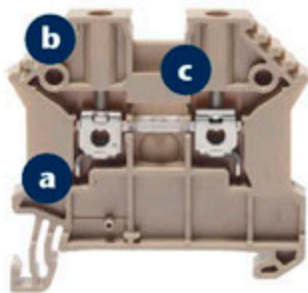
ZES35	Z Series Push-in End Clamp
ZES35/2	End Stop for Small Profile Spring Clamp Terminal Range
ZSchT1	Marking Carrier for ZES35
ZSchT2	Marking Carrier for ZES35
ZSchT3	Marking Carrier for ZES35
ZSchT4	Marking Carrier for ZES35
ZSchT5	Marking Carrier for ZES35
ESO	Blank Tag Insert for ZSchT1, ZSchT2, ZSchT3, ZSchT4 - 10 Tags
ESO3	Blank Tag Insert for ZSchT5 - 10 Tags
STR	Protective Cover for ESO
STR3	Protective Cover for ESO3

SRK SCREW TERMINALS

a Contact Security

The SRK Screw Terminal system uses a rising clamp design which gives this terminal the following advantages:

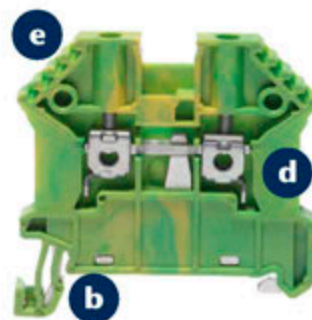
- Highest contact force and contact security
- Lowest Contact Resistance & Volt Drop
- Connection range of 0.08 to 240mm²
- Large product spectrum
- Compact design
- Connection of Multiple Conductors possible



b Easy - Proven - Safe - Reliable

The SRK Screw Terminals are easy to use and provide a quick, safe and reliable connection for both solid and flexible conductors with or without bootlace ferrules.

- Simple and easy to use
- Can be used around the world
- A connection system that has proven itself
- Larger screw heads
- Captive terminal components
- Generous wire entry
- PE foot contact on both sides of the terminal



c Pluggable Cross Connection

The Pluggable Cross Connection system SQI has many advantages in the SRK Terminal System:

- For terminals 2.5 to 35mm² there are 2 connection channels
- Simple to insert and quicker to install
- Can carry full terminal rated current and voltage
- 2 to 10 and 30 Pole options for up to 10mm² terminals
- Patented End Cap SQIK with touch safe design
- Skip-over bridging possible



d Terminal Material

- Polyamide PA6.6 UL 94 V0 material
- Self extinguishing
- Robust and secure design
- Temperature from -40°C to +120°C

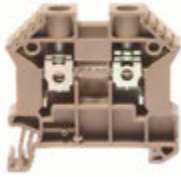
e Marking options

The standard terminals feature four labeling channels. They can be fitted with four SB labeling tags or two BSTR marking tags.



SRK SCREW TERMINALS

2.5MM² SCREW TERMINALS



SRK2.5/2A
 SRK2.5/2AB
 SRK2.5/24R
 SRK2.5/24BL
 SRK2.5/2AG
 SRK2.5/2AO
 SRK2.5/2AW
 SRK2.5/2AY
 SSL2.5/2A
 AP2.5-10
 AP2.5-10B
 AP2.5-10BL
 AP2.5-10R
 AP2.5-10G
 AP2.5-10O
 AP2.5-10W
 AP2.5-10Y
 SAD1.5/B
 SQI2.5/2Y
 SQI2.5/3Y
 SQI2.5/4Y
 SQI2.5/5Y
 SQI2.5/6Y
 SQI2.5/7Y
 SQI2.5/8Y
 SQI2.5/9Y
 SQI2.5/10Y
 SQI2.5/30Y
 SQIK2.5-10Y

Single Level 2.5mm² Terminal Block
 Single Level 2.5mm² Terminal Block - Blue
 Single Level 2.5mm² Terminal Block - Red
 Single Level 2.5mm² Terminal Block - Black
 Single Level 2.5mm² Terminal Block - Green
 Single Level 2.5mm² Terminal Block - Orange
 Single Level 2.5mm² Terminal Block - White
 Single Level 2.5mm² Terminal Block - Yellow
 Earth 2.5mm² Terminal Block - TS35 DIN Rail only
 End Cover SRK2.5
 End Cover SRK2.5 - Blue
 End Cover SRK2.5 - Black
 End Cover SRK2.5 - Red
 End Cover SRK2.5 & SSL2.5 - Green
 End Cover SRK2.5 - Orange
 End Cover SRK2.5 - White
 End Cover SRK2.5 - Yellow
 Terminal Cover for SRK2.5 - Arrow Marking
 2 Pole Cross Connection Bar for SRK2.5 Terminals
 3 Pole Cross Connection Bar for SRK2.5 Terminals
 4 Pole Cross Connection Bar for SRK2.5 Terminals
 5 Pole Cross Connection Bar for SRK2.5 Terminals
 6 Pole Cross Connection Bar for SRK2.5 Terminals
 7 Pole Cross Connection Bar for SRK2.5 Terminals
 8 Pole Cross Connection Bar for SRK2.5 Terminals
 9 Pole Cross Connection Bar for SRK2.5 Terminals
 10 Pole Cross Connection Bar for SRK2.5 Terminals
 30 Pole Cross Connection Bar for SRK2.5 Terminals
 SQI End Cap

4MM² SCREW TERMINALS



SRK4/2A
 SRK4/2AB
 SRK4/2ABL
 SRK4/2AG
 SRK4/2AO
 SRK4/2AR
 SRK4/2AW
 SRK4/2AY
 SSL4/2A
 AP2.5-10
 AP2.5-10B
 AP2.5-10BL
 AP2.5-10G
 AP2.5-10O
 AP2.5-10W
 AP2.5-10Y

Single Level 4mm² Terminal Block
 Single Level 4mm² Terminal Block - Blue
 Single Level 4mm² Terminal Block - Black
 Single Level 4mm² Terminal Block - Green
 Single Level 4mm² Terminal Block - Orange
 Single Level 4mm² Terminal Block - Red
 Single Level 4mm² Terminal Block - White
 Single Level 4mm² Terminal Block - Yellow
 Earth 4mm² Terminal Block - TS35 DIN Rail only
 End Cover SRK4
 End Cover SRK4 - Blue
 End Cover SRK4 - Black
 End Cover SRK4 & SSL4 - Green
 End Cover SRK4 - Orange
 End Cover SRK4 - White
 End Cover SRK4 - Yellow

SRK SCREW TERMINALS

4MM² SCREW TERMINALS - CONTINUED



SAD1/6/B	Terminal Cover for SRK4 - Arrow Marking
SMAG4/2.5	2.5mm ² Pick Off Terminal for SRK4/2 Terminals
SQI4/2Y	2 Pole Cross Connection Bar for SRK4 Terminals
SQI4/3Y	3 Pole Cross Connection Bar for SRK4 Terminals
SQI4/4Y	4 Pole Cross Connection Bar for SRK4 Terminals
SQI4/5Y	5 Pole Cross Connection Bar for SRK4 Terminals
SQI4/6Y	6 Pole Cross Connection Bar for SRK4 Terminals
SQI4/7Y	7 Pole Cross Connection Bar for SRK4 Terminals
SQI4/8Y	8 Pole Cross Connection Bar for SRK4 Terminals
SQI4/9Y	9 Pole Cross Connection Bar for SRK4 Terminals
SQI4/10Y	10 Pole Cross Connection Bar for SRK4 Terminals
SQI4/30Y	30 Pole Cross Connection Bar for SRK4 Terminals
SQIK2.5-10Y	SQI End Cap

6MM² SCREW TERMINALS



SRK6/2A	Single Level 6mm ² Terminal Block
SRK6/2AB	Single Level 6mm ² Terminal Block - Blue
SRK6/2ABL	Single Level 6mm ² Terminal Block - Black
SRK6/2AG	Single Level 6mm ² Terminal Block - Green
SRK6/2AR	Single Level 6mm ² Terminal Block - Red
SRK6/2AW	Single Level 6mm ² Terminal Block - White
SSL6/2A	Earth 6mm ² Terminal Block - TS35 DIN Rail only
AP2.5-10	End Cover SRK6
AP2.5-10B	End Cover SRK6 - Blue
AP2.5-10BL	End Cover SRK4 - Black
AP2.5-10G	End Cover SRK4 & SSL4 - Green
AP2.5-10R	End Cover SRK4 - Red
AP2.5-10W	End Cover SRK4 - White
SAD1/8/B	Terminal Cover for SRK6/2A - Arrow Marking
SQI6/2Y	2 Pole Cross Connection Bar for SRK6 Terminals
SQI6/3Y	3 Pole Cross Connection Bar for SRK6 Terminals
SQI6/4Y	4 Pole Cross Connection Bar for SRK6 Terminals
SQI6/5Y	5 Pole Cross Connection Bar for SRK6 Terminals
SQI6/6Y	6 Pole Cross Connection Bar for SRK6 Terminals
SQI6/7Y	7 Pole Cross Connection Bar for SRK6 Terminals
SQI6/8Y	8 Pole Cross Connection Bar for SRK6 Terminals
SQI6/9Y	9 Pole Cross Connection Bar for SRK6 Terminals
SQI6/10Y	10 Pole Cross Connection Bar for SRK6 Terminals
SQI6/30Y	30 Pole Cross Connection Bar for SRK6 Terminals
SQIK2.5-10Y	SQI End Cap

SRK SCREW TERMINALS

10MM² SCREW TERMINALS



SRK10/2A	Single Level 10mm ² Terminal Block
SRK10/2AB	Single Level 10mm ² Terminal Block - Blue
SRK10/2ABL	Single Level 10mm ² Terminal Block - Black
SRK10/2AG	Single Level 10mm ² Terminal Block - Green
SRK10/2AR	Single Level 10mm ² Terminal Block - Red
SRK10/2AW	Single Level 10mm ² Terminal Block - White
SSL10/2A	Earth 10mm ² Terminal Block - TS35 DIN Rail only
AP2.5-10	End Cover SRK4
AP2.5-10B	End Cover SRK4 - Blue
AP2.5-10BL	End Cover SRK4 - Black
AP2.5-10G	End Cover SRK4 & SSL4 - Green
AP2.5-10O	End Cover SRK4 - Orange
AP2.5-10W	End Cover SRK4 - White
AP2.5-10Y	End Cover SRK4 - Yellow
SAD1/10/B	Terminal Cover for SRK10 - Arrow Marking
SQI10/2Y	2 Pole Cross Connection Bar for SRK10 Terminals
SQI10/3Y	3 Pole Cross Connection Bar for SRK10 Terminals
SQI10/10	10 Pole Cross Connection Bar for SRK10 Terminals
SQI10/30	30 Pole Cross Connection Bar for SRK10 Terminals
SQIK2.5-10Y	SQI End Cap

16MM² SCREW TERMINALS



SRK16/2A	Single Level 16mm ² Terminal Block
SRK16/2AB	Single Level 16mm ² Terminal Block - Blue
SRK16/2AG	Single Level 16mm ² Terminal Block - Green
SSL16/2A	Earth 16mm ² Terminal Block - TS35 DIN Rail only
SAP16/2A	End Cover For SRK16
SAP16/2AB	End Cover For SRK16 - Blue
SAP16/2AG	End Cover For SRK16 & SSL16 Earth Terminal - Green
SAD1/12/B	Terminal Cover for SRK16 - Arrow Marking
SQI16/2	2 Pole Cross Connection Bar for SRK16 Terminals

35MM² SCREW TERMINALS



SRK35/2A	Single Level 35mm ² Terminal Block
SRK35/2AB	Single Level 35mm ² Terminal Block - Blue
SRK35/2AG	Single Level 35mm ² Terminal Block - Green
SSL35/2A	Earth 35mm ² Terminal Block - TS35 DIN Rail only
SQI35/2	2 Pole Cross Connection Bar for SRK35 Terminals

SRK SCREW TERMINALS

DOUBLE LEVEL TERMINALS



SRKD2.5

Dual Level 2.5mm² Terminal Block

SRKD4

Dual Level 4mm² Terminal Block

SAPD2.5-4

End Cover for SRKD2.5 & SRKD4 Terminals

FUSE TERMINALS



SSIK4/2A

4mm² Fuse Terminal 500V/10 Amp - 5x20, 5x25 and 5x30mm Fuses

SSIK6/2A

4mm² Fuse Terminal 500V/10 Amp - for 6.3x25 and 6.3x32mm Fuses

SAPSSIK4/6

End Plate for SSIK4/2 & SSIK6/2 Fuse Terminals

SST/SSIK/LED/12-30V

SSIK4/2A & SSIK6/2A Fuse Status Indicator - 12-30VAC/DC

SST/SSIK/LED/30-60V

SSIK4/2A & SSIK6/2A Fuse Status Indicator - 30-60VAC/DC

SST/SSIK/LED/110-250V

SSIK4/2A & SSIK6/2A Fuse Status Indicator - 110-250VAC/DC



SST/SSIK/LED/500V

SSIK4/2A & SSIK6/2A Fuse Status Indicator - 500VAC/DC

SMAG4/2.5

2.5mm² Pick Off Terminal SSIK4/2 & SSIK6/2 Terminals

SQI4/2Y

2 Pole Cross Connection Bar for SRK4 Terminals

SQI4/3Y

3 Pole Cross Connection Bar for SRK4 Terminals

SQI4/4Y

4 Pole Cross Connection Bar for SRK4 Terminals

SQI4/5Y

5 Pole Cross Connection Bar for SRK4 Terminals

SQI4/6Y

6 Pole Cross Connection Bar for SRK4 Terminals

SQI4/7Y

7 Pole Cross Connection Bar for SRK4 Terminals

SQI4/8Y

8 Pole Cross Connection Bar for SRK4 Terminals

SQI4/9Y

9 Pole Cross Connection Bar for SRK4 Terminals

SQI4/10Y

10 Pole Cross Connection Bar for SRK4 Terminals

SQI4/30Y

30 Pole Cross Connection Bar for SRK4 Terminals

SQIK2.5-10Y

SQI End Cap

ACCESSORIES



SES35

Screwless End Stop TS35 Rail

SHES35

Heavy Duty Plastic Coated Metal DIN Rail End Clamp

TERMINAL MARKING SOLUTIONS - PRINTED TO ORDER

TERMINAL MARKING SOLUTIONS



MCBSTR6/120P installed



AS3/10G (.....) installed

MCSB4/200P	Terminal Marker - 4 mm wide - Maxicard of 200 Markers (4946.7)
MCSB5/200P	Terminal Marker - 5 mm wide - Maxicard of 200 Markers (3300.7)
MCSB6/200P	Terminal Marker - 6 mm wide - Maxicard of 200 Markers (3301.7)
MCSB8/160P	Terminal Marker - 8 x 8 mm - Maxicard of 160 Markers (3328.7)
MCBSTR5/144P	Terminal Marker - 5 x 10 mm - Maxicard of 144 Markers (3309.7)
MCBSTR5/144MIP	Terminal Marker - 5 x 10 mm - Maxicard of 144 Markers (3310.7)
MCBSTR5x12/144P	Terminal Marker - 5 x 12 mm - Maxicard of 144 Markers (3380.7)
MCBSTR6/120P	Terminal Marker - 6 x 12 mm - Maxicard of 120 Markers (3314.7)
MCBSTR8x12P	Terminal Marker - 8 x 12 mm - Maxicard of 84 Markers (9406.7)
MCBSTR10x12/40P	Terminal Marker - 10 x 12 mm - Maxicard of 40 Markers (9408.7)
AS3/10G (.....)	Marking Letter, Numbers (in Strips of 10) - Numbers, Letters & Symbols

MARKER HOLDERS FOR TERMINALS & END STOPS - PRINTED TO ORDER



SchT4 fitted with Markers



SchT7 installed



SchT9 installed



GT2 with Accessories

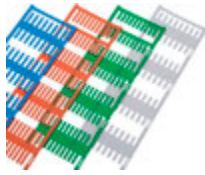
SchT3/AS3/10	AS3/10 Terminal Marker Carrier - 3 Numbers
SchT4/AS3/10	AS3/10 Terminal Marker Carrier - 3 Numbers
SchT5/AS3/10	AS3/10 Terminal Marker Carrier - 3 Numbers
SchT6/AS3/10	AS3/10 Terminal Marker Carrier - 3 Numbers
SchT7	Terminal Marker Carrier with Short Joint
SchT7L	Terminal Marker Carrier with Long Joint
ESO1	Blank Tag Insert for SchT7 & SchT7L - Strip of 10
STR	Protective Strip for ESO
SchT2	Terminal Marker Carrier to be used with ES../K/ST
ESO2	Blank Tag Insert for SchT2 - Strip of 10
STR2	Protective Strip for ESO2
SchT9P	Group Marker for ES35/2/K & ES35/K/ST end stop - 8mm wide - Printed
SchT10P	Group Marker for ES35/K/ST - Printed
ZSchT1	Marking Carrier for ZES35
ZSchT3	Marking Carrier for ZES35
ZSchT4	Marking Carrier for ZES35
ZSchT5	Marking Carrier for ZES35
ESO1	Blank Tag Insert for ZSchT1, ZSchT2, ZSchT3, ZSchT4 - 10 Tags
ESO3	Blank Tag Insert for ZSchT5 - 10 Tags
STR	Protective Cover for ESO
STR3	Protective Cover for ESO3
ZSchT6P	Group Marker for ZES35 end stop - Printed
GT1	Group Marker Holder - 9.5mm wide
ESO-GT1	Complete sheet of 140 blank insert for GT1 Holder
STR-GT1	Protective cover for E50-GT1
GT2	Group Marker Holder 19.5mm wide
ESO-GT2	Complete sheet of 60 blank insert for GT2 Holder
STR-GT2	Protective cover for E50-GT2

SchT9P & SchT10P & ZschT6P are printed to order - please submit with Excel Spreadsheet

CABLE MARKING

- PRINTED TO ORDER

PRINTED CABLE MARKING SOLUTIONS - SLEEVE INSERT TYPE



MCESS15/80 range



MCESS range installed



MCESS range installed



MCESS range with sleeve

MCESS12/64WP	Insertable Tags - 12mm long - Maxicard of 64 Tags - white (3316.7)
MCESS12/64BP	Insertable Tags - 12mm long - Maxicard of 64 Tags - blue (3316.5)
MCESS12/64RP	Insertable Tags - 12mm long - Maxicard of 64 Tags - red (3316.9)
MCESS12/64YP	Insertable Tags - 12mm long - Maxicard of 64 Tags - yellow (3316.8)
MCESS12/64GP	Insertable Tags - 12mm long - Maxicard of 64 Tags - green (3316.1)
MCESS12/64OP	Insertable Tags - 12mm long - Maxicard of 64 Tags - orange (3316.3)
MCESS15/80WP	Insertable Tags - 15mm long - Maxicard of 80 Tags - white (3317.7)
MCESS15/80BP	Insertable Tags - 15mm long - Maxicard of 80 Tags - blue (3317.5)
MCESS15/80RP	Insertable Tags - 15mm long - Maxicard of 80 Tags - red (3317.9)
MCESS15/80YP	Insertable Tags - 15mm long - Maxicard of 80 Tags - yellow (3317.8)
MCESS15/80GP	Insertable Tags - 15mm long - Maxicard of 80 Tags - green (3317.1)
MCESS15/80OP	Insertable Tags - 15mm long - Maxicard of 80 Tags - orange (3317.3)
MCESS18/64WP	Insertable Tags - 18mm long - Maxicard of 64 Tags - white (3318.7)
MCESS18/64BP	Insertable Tags - 18mm long - Maxicard of 64 Tags - blue (3318.5)
MCESS18/64RP	Insertable Tags - 18mm long - Maxicard of 64 Tags - red (3318.9)
MCESS18/64YP	Insertable Tags - 18mm long - Maxicard of 64 Tags - yellow (3318.8)
MCESS18/64GP	Insertable Tags - 18mm long - Maxicard of 64 Tags - green (3318.1)
MCESS18/64OP	Insertable Tags - 18mm long - Maxicard of 64 Tags - orange (3318.3)
MCESS20/80WP	Insertable Tags - 20mm long - Maxicard of 80 Tags - white (3319.7)
MCESS20/80BP	Insertable Tags - 20mm long - Maxicard of 80 Tags - blue (3319.5)
MCESS20/80RP	Insertable Tags - 20mm long - Maxicard of 80 Tags - red (3319.9)
MCESS20/80YP	Insertable Tags - 20mm long - Maxicard of 80 Tags - yellow (3319.8)
MCESS20/80GP	Insertable Tags - 20mm long - Maxicard of 80 Tags - green (3319.1)
MCESS20/80OP	Insertable Tags - 20mm long - Maxicard of 80 Tags - orange (3319.3)
MCESS30/60WP	Insertable Tags - 30mm long - Maxicard of 60 Tags - white (3354.7)
MCESS30/60BP	Insertable Tags - 30mm long - Maxicard of 60 Tags - blue (3354.5)
MCESS30/60RP	Insertable Tags - 30mm long - Maxicard of 60 Tags - red (3354.9)
MCESS30/60YP	Insertable Tags - 30mm long - Maxicard of 60 Tags - yellow (3354.8)
MCESS30/60GP	Insertable Tags - 30mm long - Maxicard of 60 Tags - green (3354.1)
MCESS30/60OP	Insertable Tags - 30mm long - Maxicard of 60 Tags - orange (3354.3)

All Maxicard products are printed to order - please submit with Excel Spreadsheet

PRINTED CLIP-ON CABLE MARKING



MCKMC0/4x12WP	12mm long – for Cable O/D of 0.9 - 2.6mm - Maxicard 40 tags - white
MCKMC0/4x21WP	21mm long – for Cable O/D of 0.9 - 2.6mm - Maxicard 40 tags - white
MCKMC0/4x30WP	30mm long – for Cable O/D of 0.9 - 2.6mm - Maxicard 30 tags - white
MCKMC1/4x12WP	12mm long – for Cable O/D of 2.0 - 3.0mm - Maxicard 40 tags - white

All Maxicard products are printed to order - please submit with Excel Spreadsheet

CABLE MARKING SLEEVES

CABLE MARKING SOLUTIONS - SLEEVES



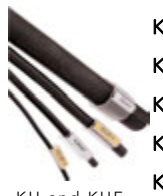
KH and KHE installed



MCESS range with sleeve

KH02/12	Cable Marker Sleeve - 12mm long - for cable O/D 1.3-3.0mm - pkt of 200 (4900.0)
KH02/15	Cable Marker Sleeve - 15mm long - for cable O/D 1.3-3.0mm - pkt of 200 (4901.0)
KH02/18	Cable Marker Sleeve - 18mm long - for cable O/D 1.3-3.0mm - pkt of 200 (4902.0)
KH02/21	Cable Marker Sleeve - 21mm long - for cable O/D 1.3-3.0mm - pkt of 200 (4903.0)
KH02/30	Cable Marker Sleeve - 30mm long - for cable O/D 1.3-3.0mm - pkt of 200 (9390.0)
KH10/12	Cable Marker Sleeve - 12mm long - for cable O/D 2.5-5.0mm - pkt of 200 (4904.0)
KH10/15	Cable Marker Sleeve - 15mm long - for cable O/D 2.5-5.0mm - pkt of 200 (4905.0)
KH10/18	Cable Marker Sleeve - 18mm long - for cable O/D 2.5-5.0mm - pkt of 200 (4906.0)
KH10/21	Cable Marker Sleeve - 21mm long - for cable O/D 2.5-5.0mm - pkt of 200 (4907.0)
KH10/30	Cable Marker Sleeve - 30mm long - for cable O/D 2.5-5.0mm - pkt of 200 (9391.0)
KH20/12	Cable Marker Sleeve - 12mm long - for cable O/D 4.0-10.0mm - pkt of 100 (4908.0)
KH20/15	Cable Marker Sleeve - 15mm long - for cable O/D 4.0-10.0mm - pkt of 100 (4909.0)
KH20/18	Cable Marker Sleeve - 18mm long - for cable O/D 4.0-10.0mm - pkt of 100 (4910.0)
KH20/21	Cable Marker Sleeve - 21mm long - for cable O/D 4.0-10.0mm - pkt of 100 (4911.0)
KH20/30	Cable Marker Sleeve - 30mm long - for cable O/D 4.0-10.0mm - pkt of 100 (9392.0)
KH30/12	Cable Marker Sleeve - 12mm long - for cable O/D 8.0-16.0mm - pkt of 50 (4912.0)
KH30/15	Cable Marker Sleeve - 15mm long - for cable O/D 8.0-16.0mm - pkt of 50 (4913.0)
KH30/18	Cable Marker Sleeve - 18mm long - for cable O/D 8.0-16.0mm - pkt of 50 (4914.0)
KH30/21	Cable Marker Sleeve - 21mm long - for cable O/D 8.0-16.0mm - pkt of 50 (4915.0)
KH30/30	Cable Marker Sleeve - 30mm long - for cable O/D 8.0-16.0mm - pkt of 50 (9393.0)

CABLE MARKING SOLUTIONS - BULK PACK SLEEVES



KH and KHE installed

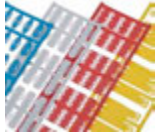


MCESS range with sleeve

KHE0.5/12	Cable Marker Sleeve - 12mm long - for cable O/D 0.3-2.2 mm - pkt of 2000 (9360.0)
KHE0.5/15	Cable Marker Sleeve - 15mm long - for cable O/D 0.3-2.2 mm - pkt of 2000 (9361.0)
KHE0.5/18	Cable Marker Sleeve - 18mm long - for cable O/D 0.3-2.2 mm - pkt of 1000 (9362.0)
KHE0.5/21	Cable Marker Sleeve - 21mm long - for cable O/D 0.3-2.2 mm - pkt of 1000 (9363.0)
KHE0.5/30	Cable Marker Sleeve - 30mm long - for cable O/D 0.3-2.2 mm - pkt of 500 (9364.0)
KHE2.5/12	Cable Marker Sleeve - 12mm long - for cable O/D 2.0-3.7mm - pkt of 1000 (9365.0)
KHE2.5/15	Cable Marker Sleeve - 15mm long - for cable O/D 2.0-3.7mm - pkt of 1000 (9366.0)
KHE2.5/18	Cable Marker Sleeve - 18mm long - for cable O/D 2.0-3.7mm - pkt of 1000 (9367.0)
KHE2.5/21	Cable Marker Sleeve - 21mm long - for cable O/D 2.0-3.7mm - pkt of 3000 (9368.0)
KHE2.5/30	Cable Marker Sleeve - 30mm long - for cable O/D 2.0-3.7mm - pkt of 1000 (9369.0)
KHE4.0/12	Cable Marker Sleeve - 12mm long - for cable O/D 3.5-4.3mm - pkt of 1000 (9370.0)
KHE4.0/15	Cable Marker Sleeve - 15mm long - for cable O/D 3.5-4.3mm - pkt of 1000 (9371.0)
KHE4.0/18	Cable Marker Sleeve - 18mm long - for cable O/D 3.5-4.3mm - pkt of 2000 (9372.0)
KHE4.0/21	Cable Marker Sleeve - 21mm long - for cable O/D 3.5-4.3mm - pkt of 2000 (9373.0)
KHE4.0/30	Cable Marker Sleeve - 30mm long - for cable O/D 3.5-4.3mm - pkt of 1000 (9374.0)
KHE10.0/15	Cable Marker Sleeve - 15mm long - for cable O/D 4.3-6.3mm - pkt of 500 (9376.0)
KHE25.0/15	Cable Marker Sleeve - 15mm long - for cable O/D 6.0-10.0mm - pkt of 500 (9381.0)
KHE70.0/15	Cable Marker Sleeve - 15mm long - for cable O/D 9.0-15.0mm - pkt of 250 (9386.0)

CABLE TIE MARKERS - PRINTED TO ORDER

PRINTED CABLE TIE MARKERS



MCKMS...
range

MCKM10/23WP	Cable Tie Marker - 23mm x 10mm wide - Maxicard of 32 Tags - white (3303.7)
MCKMS10/23YP	Cable Tie Marker - 23mm x 10mm wide - Maxicard of 32 Tags - yellow (3303.8)
MCKMS10/23RP	Cable Tie Marker - 23mm x 10mm wide - Maxicard of 32 Tags - red (3303.9)
MCKMS10/23BP	Cable Tie Marker - 23mm x 10mm wide - Maxicard of 32 Tags - blue (3303.5)
MCKMS14/23WP	Cable Tie Marker - 23mm x 14mm wide - Maxicard of 32 Tags - white (3304.7)
MCKMS14/23YP	Cable Tie Marker - 23mm x 14mm wide - Maxicard of 32 Tags - yellow (3304.8)
MCKMS14/23RP	Cable Tie Marker - 23mm x 14mm wide - Maxicard of 32 Tags - red (3304.9)
MCKMS14/23BP	Cable Tie Marker - 23mm x 14mm wide - Maxicard of 32 Tags - blue (3304.5)
MCKMS15/24WP	Cable Tie Marker - 24mm x 15mm wide - Maxicard of 32 Tags - white (3302.7)
MCKMS15/24YP	Cable Tie Marker - 24mm x 15mm wide - Maxicard - 32 Tags - yellow (3302.8)
MCKMS15/24RP	Cable Tie Marker - 24mm x 15mm wide - Maxicard of 32 Tags - red (3302.9)
MCKMS15/24BP	Cable Tie Marker - 24mm x 15mm wide - Maxicard of 32 Tags - blue (3302.5)
MCKMS11/60WP	Cable Tie Marker - 60mm x 11mm wide - Maxicard of 12 Tags - white (3305.7)
MCKMS11/60YP	Cable Tie Marker - 60mm x 11mm wide - Maxicard - 12 Tags - yellow (3305.8)
MCKMS11/60RP	Cable Tie Marker - 60mm x 11mm wide - Maxicard of 12 Tags - red (3305.9)
MCKMS11/60BP	Cable Tie Marker - 60mm x 11mm wide - Maxicard of 12 Tags - blue (3305.5)

MCKMS...
range in-
stalled

All Maxicard products are printed to order - please submit with Excel Spreadsheet

CABLE TIE MARKING SLEEVES



KSH Sleeves
installed

KSH6/33	Cable Marker Sleeve fixed with Cable Ties - for MCESS18/64 - packet of 100 (2383.0)
KSH11/33	Cable Marker Sleeve fixed with Cable Ties - for MCGS7/20 - packet of 100 (2384.0)
KSH4/30	Cable Marker Sleeve fixed with Cable Tie - for MCESS30/60 - packet of 500 (3896.0)

PRINTED KBH CABLE TIE MARKERS & HOLDERS



KBH-S range

KBH-S21YP	Cable Marker Sleeve - 21mm long - Strip of 9 Markers - yellow (2624.0) PRINTED
KBH-S36YP	Cable Marker Sleeve - 36mm long - Strip of 5 Markers - yellow (2532.0) PRINTED
KBH-S57YP	Cable Marker Sleeve - 57mm long - Strip of 3 Markers - yellow (2625.0) PRINTED
KBH-S84YP	Cable Marker Sleeve - 84mm long - Strip of 2 Markers - yellow (2562.0) PRINTED
KBH-SY	Individual Number/Letter - 4mm long - yellow - packet of 100 (2690.0 & 2691.0)
KH70	Cable Marker Sleeve Holder - 70mm long - black - packet of 100 (2654.0)
KH110	Cable Marker Sleeve Holder - 110mm long - black - packet of 100 (2655.0)

All KBH-S21 - 84 products are printed to order - please submit with Excel Spreadsheet

ADHESIVE MARKERS - PRINTED TO ORDER

PRINTED ADHESIVE MARKERS



MCGS... Adhesive Markers



Preparing Adhesive Marker

MCGS6x12/120KP	Device Marker Adhesive Fixing - 6x12mm - Maxicard of 120 Tags - white
MCGS9/17KP	Device Marker Adhesive Fixing - Maxicard of 40 Tags - white (3323.7)
MCGS7/20KWP	Device Marker Adhesive Fixing - 20x7mm - Maxicard of 40 Tags - white (3381.7)
MCGST22/22KWP	Marker Adhesive Fixing - 22x22mm - Maxicard - 16 Tags - white (3344.7)
MCGST27/12,5KWP	Marker Adhesive Fixing - 27x12.5mm - Maxicard - 16 Tags - white (3341.7)
MCGST27/18KWP	Marker Adhesive Fixing - 27x18mm - Maxicard - 16 Tags - white (3342.7)
MCGST27/27KWP	Marker Adhesive Fixing - 27x27mm - Maxicard - 12 Tags - white (3343.7)
MCGST27/8KWP	Marker Adhesive Fixing - 27x8mm - Maxicard of 16 Tags - white (3344.7)
MCGSU17x15KP	Device Marker with Adhesive Fixing - 17mm x 15mm - Maxicard of 16 Tags - white
MCGSU27x15KP	Device Marker with Adhesive Fixing - 27mm x 15mm - Maxicard of 16 Tags - white
MCGSU49x15KP	Device Marker with Adhesive Fixing - 49mm x 15mm - Maxicard of 8 Tags - white
MCGSU60x15KP	Device Marker with Adhesive Fixing - 60mm x 15mm - Maxicard of 8 Tags - white
MCGSU60x30KP	Device Marker with Adhesive Fixing - 60mm x 30mm - Maxicard of 6 Tags - white
MCGSU85.4x54KP	Device Marker with Adhesive Fixing - 85.4mm x 54mm - Maxicard of 2 Tags - white

All MCGSU products are printed to order - please submit with Excel Spreadsheet

DEVICE MARKING SOLUTIONS

PRINTED DEVICE MARKING



MCGS...
Device
Markers

MCGS6x12/120RP	Device Marker - 6mm x 12mm - Maxicard of 120 Tags - white (3884.7)
MCGS8/17RP	ABB Device Marker - Maxicard of 40 Tags - white (3320.7)
MCGS8/17RtP	Schneider Device Marker - Maxicard of 40 Tags - white (3321.7)
MCGS7/20RP	Siemens Device Marker - Maxicard of 40 Tags - white (3329.7)

All MCGS products are printed to order - please submit with Excel Spreadsheet

PRINTED 22MM MARKERS & HOLDERS



MCGST...
Device
Markers

MCGST27/12,5RSP	Label Holder Device Marker - 27x12.5mm - Maxicard -16 Tags - silver (3336.0)
MCGST27/12,5RWP	Label Holder Device Marker - 27x12.5mm - Maxicard -16 Tags - white (3336.7)
MCGST27/18RSP	Label Holder Device Marker - 27x18mm - Maxicard of 16 Tags - silver (3337.0)
MCGST27/18RWP	Label Holder Device Marker - 27x18mm - Maxicard of 16 Tags - white (3337.7)
MCGST27/27RSP	Label Holder Device Marker - 27x27mm - Maxicard of 12 Tags - silver (3338.0)
MCGST27/27RWP	Label Holder Device Marker - 27x27mm - Maxicard of 12 Tags - white (3338.7)
MCGST27/8RSP	Label Holder Device Marker - 27x8mm - Maxicard of 16 Tags - silver (3340.0)
MCGST27/8RWP	Label Holder Device Marker - 27x8mm - Maxicard of 16 Tags - white (3340.7)
GST-H27x8	Label Holder for 22 Diameter Device for MCGST 27/8
GST-H27x12.5	Label Holder for 22 Diameter Device for MCGST 27/12.5
GST-H27x18	Label Holder for 22 Diameter Device for MCGST 27/18
GST-H27x27	Label Holder for 22 Diameter Device for MCGST 27/27

All Maxicard products are printed to order - please submit with Excel Spreadsheet

PRINTED DEVICE MARKERS FOR GSU HOLDERS



MCGSU17x15RP	Device Marker - 17mm x 15mm - Maxicard of 16 Tags - white
MCGSU27x15RP	Device Marker - 27mm x 15mm - Maxicard of 16 Tags - white
MCGSU49x15RP	Device Marker - 49mm x 15mm - Maxicard of 8 Tags - white
MCGSU60x15RP	Device Marker - 60mm x 15mm - Maxicard of 8 Tags - white
MCGSU60x30RP	Device Marker - 60mm x 30mm - Maxicard of 6 Tags - white
MCGSU85.5x54RP	Device Marker - 85.4mm x 54mm - Maxicard of 2 Tags - white

All MCGSU products are printed to order - please submit with Excel Spreadsheet

GSU DEVICE MARKER HOLDERS



STRMCGSU
strips
installed

GSU-H17x15	Device Marker Holder for MC GSU 17x15R
GSU-H27x15	Device Marker Holder for MC GSU 27x15R
GSU-H49x15	Device Marker Holder for MC GSU 49x15R
GSU-H60x15	Device Marker Holder for MC GSU 60x15R
GSU-H60x30	Device Marker Holder for MC GSU 60x30R
GSU-H85.4x54	Device Marker Holder for MC GSU 85.4x54R

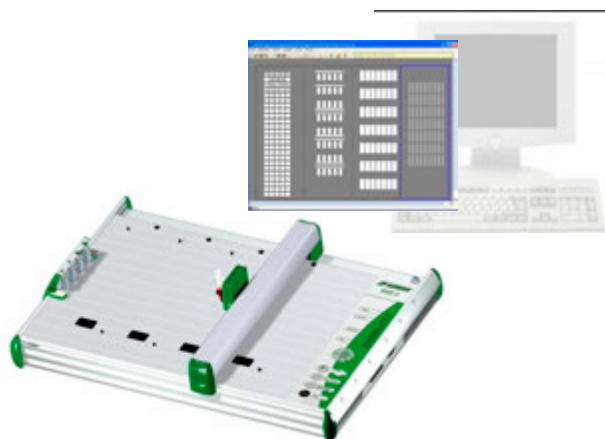


MCGSU...
range
installed

STRMCGSU17x15	Device Marker Holder Protective Strip for MC GSU 17x15R
STRMCGSU27x15	Device Marker Holder Protective Strip for MC GSU 27x15R
STRMCGSU49x15	Device Marker Holder Protective Strip for MC GSU 49x15R
STRMCGSU60x15	Device Marker Holder Protective Strip for MC GSU 60x15R
STRMCGSU60x30	Device Marker Holder Protective Strip for MC GSU 60x30R
STRMCGSU85.4x54	Device Marker Holder Protective Strip for MC GSU 85.4x54R

EMS-3 MARKING SYSTEM

TECHNICAL INFORMATION



CONTA-CLIP MARKING SYSTEM

Marking cables, connectors and devices to provide unmistakable, clearly arranged and permanently legible identification protects against mix-ups, increases safety and reduces work levels, which in turn reduces manufacturing and maintenance costs including those caused by production down-times.

CONTA-CLIP offer a wide variety of options for marking terminal blocks, cables, wires and devices.

CONTA-CLIP uses the EMS-3 Plotter manufactured in Germany and still the most cost effective way to mark products reliably.

CONTA-CLIP EMS-3 MARKING SYSTEM



EMS-3 Plotter



PPE plotter pen

EMS-3 set	Plotter set includes Plotter, 1 x CCI-10 Maxicard Inlay, 1 x PPE0.35 pen
CCI-10	Maxicard Inlay suitable for all Maxicard products
EMS-3 Service Kit	Kit includes primer plates & ink well inserts
PPE0.18ED*	Plotter pen - black disposable - suitable for PA Markers - Slowdrying - 0.18mm
PPE0.25ED*	Plotter pen - black disposable - suitable for PA Markers - Slowdrying - 0.25mm
PPE0.35ED*	Plotter pen - black disposable - suitable for PA Markers - Slowdrying - 0.35mm
PPE0.5ED*	Plotter pen - black disposable - suitable for PA Markers - Slowdrying - 0.5mm
PPE1.0ED*	Plotter pen - black disposable - suitable for PA Markers - Slowdrying - 1.0mm
PPE0.25EDR	Plotter pen - RED disposable - suitable for PA Markers - Slowdrying - 0.25mm
PPE0.25EDB	Plotter pen - BLUE disposable - suitable for PA Markers - Slowdrying - 0.25mm
PPE0.25EDG	Plotter pen - GREEN disposable - suitable for PA Markers - Slowdrying - 0.25mm

** Recommended for normal use*

EMS-3 SYSTEM - TERMINAL & MARKING

UNPRINTED TERMINAL MARKING



MCBSTR6/120



MCBSTR6/120P
installed

MCSB4/200	Terminal Marker - 4 mm wide - Maxicard of 200 Markers (4946.7)
MCSB5/200	Terminal Marker - 5 mm wide - Maxicard of 200 Markers (3300.7)
MCSB6/200	Terminal Marker - 6 mm wide - Maxicard of 200 Markers (3301.7)
MCSB8/160	Terminal Marker - 5x8mm - Maxicard of 160 Markers (3328.7)
MCBSTR5/144	Terminal Marker - 5 x 10mm wide - Maxicard of 144 Markers (3309.7)
MCBSTR5/144MI	Terminal Marker - 5 x 10mm wide - Maxicard of 144 Markers (3310.7)
MCBSTR5x12/144	Terminal Marker - 5x12mm - Maxicard of 144 Markers (3380.7)
MCBSTR6/120	Terminal Marker - 6 x 12 mm wide - Maxicard of 120 Markers (3314.7)
MCBSTR8x12/84	Terminal Marker - 8x12mm - Maxicard of 84 Markers (9406.7)
MCBSTR10x12/40	Terminal Marker - 10x12mm - Maxicard of 40 Markers (9408.7)

UNPRINTED GROUP MARKERS

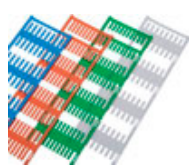


SchT9 installed

ZSchT6	Group Markers for ZES35 end stop
SchT9	Group Marker for ES35/2/K & ES35/K/ST end stop - 8mm wide
SchT10	Group Marker for ES35/K/ST end stop - 9.5mm wide
SchT12	Group Marker Carrier for AS3/10G (...)

EMS-3 SYSTEM - CABLE MARKING

UNPRINTED CABLE MARKING SOLUTIONS - SLEEVE INSERT TYPE



MCESS15/80 range



MCESS range installed



MCESS range with sleeve

MCESS12/64	Insertable Tags - 12mm long - Maxicard of 64 Tags - white (3316.7)
MCESS12/64B	Insertable Tags - 12mm long - Maxicard of 64 Tags - blue (3316.5)
MCESS12/64R	Insertable Tags - 12mm long - Maxicard of 64 Tags - red (3316.9)
MCESS12/64Y	Insertable Tags - 12mm long - Maxicard of 64 Tags - yellow (3316.8)
MCESS12/64G	Insertable Tags - 12mm long - Maxicard of 64 Tags - green (3316.1)
MCESS12/64O	Insertable Tags - 12mm long - Maxicard of 64 Tags - orange (3316.3)
MCESS15/80	Insertable Tags - 15mm long - Maxicard of 80 Tags - white (3317.7)
MCESS15/80B	Insertable Tags - 15mm long - Maxicard of 80 Tags - blue (3317.5)
MCESS15/80R	Insertable Tags - 15mm long - Maxicard of 80 Tags - red (3317.9)
MCESS15/80Y	Insertable Tags - 15mm long - Maxicard of 80 Tags - yellow (3317.8)
MCESS15/80G	Insertable Tags - 15mm long - Maxicard of 80 Tags - green (3317.1)
MCESS15/80O	Insertable Tags - 15mm long - Maxicard of 80 Tags - orange (3317.3)
MCESS18/64	Insertable Tags - 18mm long - Maxicard of 64 Tags - white (3318.7)
MCESS18/64B	Insertable Tags - 18mm long - Maxicard of 64 Tags - blue (3318.5)
MCESS18/64R	Insertable Tags - 18mm long - Maxicard of 64 Tags - red (3318.9)
MCESS18/64Y	Insertable Tags - 18mm long - Maxicard of 64 Tags - yellow (3318.8)
MCESS18/64G	Insertable Tags - 18mm long - Maxicard of 64 Tags - green (3318.1)
MCESS18/64O	Insertable Tags - 18mm long - Maxicard of 64 Tags - orange (3318.3)
MCESS20/80	Insertable Tags - 20mm long - Maxicard of 80 Tags - white (3319.7)
MCESS20/80B	Insertable Tags - 20mm long - Maxicard of 80 Tags - blue (3319.5)
MCESS20/80R	Insertable Tags - 20mm long - Maxicard of 80 Tags - red (3319.9)
MCESS20/80Y	Insertable Tags - 20mm long - Maxicard of 80 Tags - yellow (3319.8)
MCESS20/80G	Insertable Tags - 20mm long - Maxicard of 80 Tags - green (3319.1)
MCESS20/80O	Insertable Tags - 20mm long - Maxicard of 80 Tags - orange (3319.3)
MCESS30/60W	Insertable Tags - 30mm long - Maxicard of 60 Tags - white (3354.7)
MCESS30/60B	Insertable Tags - 30mm long - Maxicard of 60 Tags - blue (3354.5)
MCESS30/60R	Insertable Tags - 30mm long - Maxicard of 60 Tags - red (3354.9)
MCESS30/60Y	Insertable Tags - 30mm long - Maxicard of 60 Tags - yellow (3354.8)
MCESS30/60G	Insertable Tags - 30mm long - Maxicard of 60 Tags - green (3354.1)
MCESS30/60O	Insertable Tags - 30mm long - Maxicard of 60 Tags - orange (3354.3)

Sleeves for the above inserts are located on pages 73 & 150

UNPRINTED CABLE MARKING SOLUTIONS - CLIP-ON TYPE

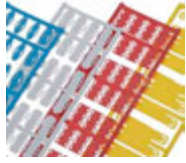


MCKMC0/4x12W	Clip-on - 12mm long - Cable O/D of 0.9-2.6mm - Maxicard of 40 tags - white
MCKMC0/4x21W	Clip-on - 21mm long - Cable O/D of 0.9-2.6mm - Maxicard of 40 tags - white
MCKMC0/4x30W	Clip-on - 30mm long - Cable O/D of 0.9-2.6mm - Maxicard of 30 tags - white
MCKMC1/4x12W	Clip-on - 12mm long - Cable O/D of 2.0-3.0mm - Maxicard of 40 tags - white

EMS-3 SYSTEM

- CABLE TIE & ADHESIVE MARKERS

UNPRINTED CABLE MARKING SOLUTIONS - CABLE TIE TYPE



MCKMS... range

MCKMS10/23W	Cable Tie Marker - 23mm x 10mm wide - Maxicard of 32 Tags - white (3303.7)
MCKMS10/23Y	Cable Tie Marker - 23mm x 10mm wide - Maxicard of 32 Tags - yellow (3303.8)
MCKMS10/23R	Cable Tie Marker - 23mm x 10mm wide - Maxicard of 32 Tags - red (3303.9)
MCKMS10/23B	Cable Tie Marker - 23mm x 10mm wide - Maxicard of 32 Tags - blue (3303.5)
MCKMS14/23W	Cable Tie Marker - 23mm x 14mm wide - Maxicard of 32 Tags - white (3304.7)
MCKMS14/23Y	Cable Tie Marker - 23mm x 14mm wide - Maxicard of 32 Tags - yellow (3304.8)
MCKMS14/23R	Cable Tie Marker - 23mm x 14mm wide - Maxicard of 32 Tags - red (3304.9)
MCKMS14/23B	Cable Tie Marker - 23mm x 14mm wide - Maxicard of 32 Tags - blue (3304.5)
MCKMS15/24W	Cable Tie Marker - 24mm x 15mm wide - Maxicard of 32 Tags - white (3302.7)
MCKMS15/24Y	Cable Tie Marker - 24mm x 15mm wide - Maxicard - 32 Tags - yellow (3302.8)
MCKMS15/24R	Cable Tie Marker - 24mm x 15mm wide - Maxicard of 32 Tags - red (3302.9)
MCKMS15/24B	Cable Tie Marker - 24mm x 15mm wide - Maxicard of 32 Tags - blue (3302.5)
MCKMS11/60W	Cable Tie Marker - 60mm x 11mm wide - Maxicard of 12 Tags - white (3305.7)
MCKMS11/60Y	Cable Tie Marker - 60mm x 11mm wide - Maxicard - 12 Tags - yellow (3305.8)
MCKMS11/60R	Cable Tie Marker - 60mm x 11mm wide - Maxicard of 12 Tags - red (3305.9)
MCKMS11/60B	Cable Tie Marker - 60mm x 11mm wide - Maxicard of 12 Tags - blue (3305.5)



MCKMS... range installed

UNPRINTED ADHESIVE MARKERS



MCGS... Adhesive Markers

MCGS6x12/120K	Device Marker Adhesive Fixing - 6x12mm - Maxicard of 120 Tags - white
MCGS9/17K	Device Marker with Adhesive Fixing - Maxicard of 40 Tags - white (3323.7)
MCGS7/20KW	Device Marker with Adhesive Fixing - Maxicard of 40 Tags - white (3381.7)
MCGST22/22KW	Marker Adhesive Fixing - 22x22mm - Maxicard - 16 Tags - white (3344.7)
MCGST27/12,5KW	Marker Adhesive Fixing - 27x12.5mm - Maxicard - 16 Tags - white (3341.7)
MCGST27/18KW	Marker Adhesive Fixing - 27x18mm - Maxicard - 16 Tags - white (3342.7)
MCGST27/27KW	Marker Adhesive Fixing - 27x27mm - Maxicard - 12 Tags - white (3343.7)
MCGST27/8KW	Marker Adhesive Fixing - 27x8mm - Maxicard of 16 Tags - white (3339.7)
MCGSU17x15K	Device Marker with Adhesive Fixing - 17x15mm - Maxicard of 16 Tags - white
MCGSU27x15K	Device Marker with Adhesive Fixing - 27x15mm - Maxicard of 16 Tags - white
MCGSU49x15K	Device Marker with Adhesive Fixing - 49x15mm - Maxicard of 8 Tags - white
MCGSU60x15K	Device Marker with Adhesive Fixing - 60x15mm - Maxicard of 8 Tags - white
MCGSU60x30K	Device Marker with Adhesive Fixing - 60x30mm - Maxicard of 6 Tags - white
MCGSU85.4x54K	Device Marker with Adhesive Fixing - 85.4x54mm - Maxicard of 2 Tags - white
MCGSU85.4x54KY	Device Marker with Adhesive Fixing - 85.4x54mm - Maxicard of 2 Tags - yellow



Preparing Adhesive Marker

EMS-3 SYSTEM - DEVICE MARKING

UNPRINTED DEVICE MARKING



MCGS6x12/120R	Device Marker - 6mm x 12mm - Maxicard of 120 Tags - white (3884.7)
MCGS8/17R	ABB Device Marker - Maxicard of 40 Tags - white (3320.7)
MCGS8/17Rt	Schneider/Siemens Device Marker - Maxicard of 40 Tags - white (3321.7)
MCGS7/20R	Siemens Device Marker - Maxicard of 40 Tags - white (3329.7)

UNPRINTED 22MM MARKERS



MCGST... Device Markers

MCGST27/12,5RS	Label Holder Device Marker - 27x12.5mm - Maxicard -16 Tags - silver (3336.0)
MCGST27/12,5RW	Label Holder Device Marker - 27x12.5mm - Maxicard -16 Tags - white (3336.7)
MCGST27/18RS	Label Holder Device Marker - 27x18mm - Maxicard of 16 Tags - silver (3337.0)
MCGST27/18RW	Label Holder Device Marker - 27x18mm - Maxicard of 16 Tags - white (3337.7)
MCGST27/27RSP	Label Holder Device Marker - 27x27mm - Maxicard of 12 Tags - silver (3338.0)
MCGST27/27RW	Label Holder Device Marker - 27x27mm - Maxicard of 12 Tags - white (3338.7)
MCGST27/8RS	Label Holder Device Marker - 27x8mm - Maxicard of 16 Tags - silver (3340.0)
MCGST27/8RW	Label Holder Device Marker - 27x8mm - Maxicard of 16 Tags - white (3340.7)
GST-H27x8	Label Holder for 22 Diameter Device for MCGST 27/8
GST-H27x12.5	Label Holder for 22 Diameter Device for MCGST 27/12.5
GST-H27x18	Label Holder for 22 Diameter Device for MCGST 27/18
GST-H27x27	Label Holder for 22 Diameter Device for MCGST 27/27

UNPRINTED DEVICE MARKERS FOR GSU HOLDERS



MCGSU49x15R

MCGSU17x15R	Device Marker - 17mm x 15mm - Maxicard of 16 Tags - white
MCGSU27x15R	Device Marker - 27mm x 15mm - Maxicard of 16 Tags - white
MCGSU49x15R	Device Marker - 49mm x 15mm - Maxicard of 8 Tags - white
MCGSU60x15R	Device Marker - 60mm x 15mm - Maxicard of 8 Tags - white
MCGSU60x30R	Device Marker - 60mm x 30mm - Maxicard of 6 Tags - white
MCGSU85.4x54R	Device Marker - 85.4mm x 54mm - Maxicard of 2 Tags - white

GSU DEVICE MARKER HOLDERS



STRMCGSU strips installed

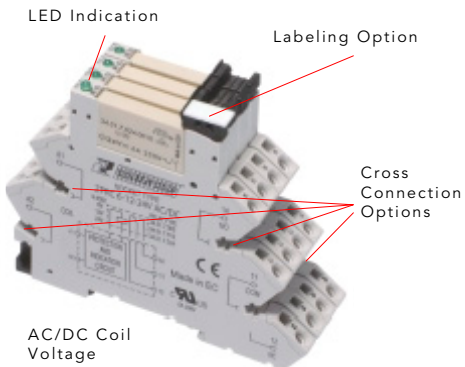


MCGSU... range installed

GSU-H17x15	Device Marker Holder for MC GSU 17x15R - packet of 80
GSU-H27x15	Device Marker Holder for MC GSU 27x15R - packet of 80
GSU-H49x15	Device Marker Holder for MC GSU 49x15R - packet of 40
GSU-H60x15	Device Marker Holder for MC GSU 60x15R - packet of 40
GSU-H60x30	Device Marker Holder for MC GSU 60x30R - packet of 30
GSU-H85.4x54	Device Marker Holder for MC GSU 85.4x54R - packet of 10
STRMCGSU17x15	Device Marker Holder Protective Strip for MC GSU 17x15R - pkt of 80
STRMCGSU27x15	Device Marker Holder Protective Strip for MC GSU 27x15R - pkt of 80
STRMCGSU49x15	Device Marker Holder Protective Strip for MC GSU 49x15R - pkt of 40
STRMCGSU60x15	Device Marker Holder Protective Strip for MC GSU 60x15R - pkt of 40
STRMCGSU60x30	Device Marker Holder Protective Strip for MC GSU 60x30R - pkt of 30
STRMCGSU85.4x54	Device Marker Holder Protective Strip for MC GSU 85.4x54R - pkt of 10

RELAYS

TECHNICAL INFORMATION



SLIMLINE RELAYS

Slimline relays have a compact design (6.2 & 14mm) which means these relay modules can be integrated in areas where only a narrow space is available. Giving safe galvanic separation of electrical circuits, these relays are perfect for automation equipment.

Relay labeling is available for both single and double pole models. The MCBSTR6-120P marker is suitable for the single pole relays.

SINGLE POLE SLIMLINE RELAYS



ZPRCU1/240VAC/DC

- ZPRCU1/24VAC/DC** Single Pole Relay & Base - Spring Terminal - 24VAC/DC Coil - 6 Amp
- ZPRCU1/240VAC/DC** Single Pole Relay & Base - Spring Terminal - 240VAC/DC Coil - 6 Amp
- PRCU1/24VAC/DC** Single Pole Relay & Base - Spring Terminal - 24VAC/DC Coil - 6 Amp
- PRCU1/240VAC/DC** Single Pole Relay & Base - Spring Terminal - 240VAC/DC Coil - 6 Amp

FILTERS, CONVERTERS & GSM-PRO CONTROLLERS

LINE FILTERS



IF-OF/0.5A	Single Phase 230V Line Filter for general use - 0.5 Amp
IF-OF/1A	Single Phase 230V Line Filter for general use - 1 Amp
IF-OF/3A	Single Phase 230V Line Filter for general use - 3 Amp
IF-OF/6A	Single Phase 230V Line Filter for general use - 6 Amp

SIGNAL CONVERTERS



CML-PT100-UI (-50/+50°C)	Signal Converter PT100 to 0/10V or 4-20mA Output
CML-PT100-UI (0/+100°C)	Signal Converter PT100 to 0/10V or 4-20mA Output
CML-PT100-UI (0/+200°C)	Signal Converter PT100 to 0/10V or 4-20mA Output
CML-PT100-UI (0/+300°C)	Signal Converter PT100 to 0/10V or 4-20mA Output
CML-PT100-UI (0/+400°C)	Signal Converter PT100 to 0/10V or 4-20mA Output
CML-UI-UI	Signal Converter 0/10V or 4-20mA to 0/10V or 4-20mA Output
CML-POT-UI	Signal Converter 1 to 20kΩ to 0/10V or 4-20mA Output

GSM-PRO CONTROLLER

Conta-Clip's GSM PRO module provides a solution for remotely monitoring and controlling processes by means of SMS signals, emails & GPRS.

Status messages are able to be sent over the GSM network if a process has reached a specified level. The digital and analog input values can also be transmitted via SMS text message. If the values indicate a critical status, the GSM-PRO device gives the service technician the option to control the analogue and digital outputs by SMS. This enables him to take action immediately without being constantly on-site. The module can be used stand alone, but can also be used as a remote module in your control system. The accompanying software can be used to easily set the parameters for the inputs and outputs.

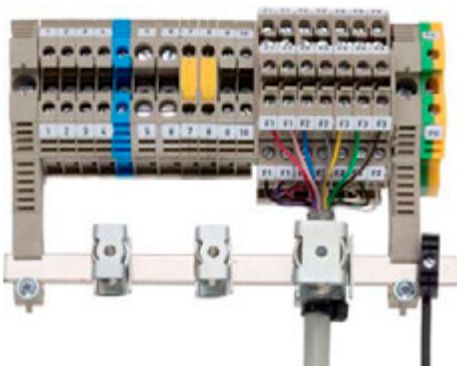
The GSM-PRO Controller can be used whenever the status of process parameters must be monitored. Several application possibilities include: Wind Power Sites, Pump and Irrigation, Poultry Farms, monitoring of remote unmanned sites and level monitoring.



GSM-PRO2	GSM Controller with 2 Multifunction Inputs and 1 Relay Output
GSM-PRO2E	GSM Controller with 10 Multifunction Inputs and 4 Relay Outputs
GSM-PRO2DO	Digital Output Module - 4 Digital Outputs
GSM-PRO2AI	Analogue Input Module - 8 Multifunction Analogue Inputs
GSM-Antenna	Standard internal antenna
GSM-Antenna-90	GSM-Pro2 External Antenna-90 Degree
GSM-Antenna-SMA	GSM-Pro2 External Antenna-3m Lead
GSM-Antenna-SMA-EC	GSM-Pro2 External Antenna-3m Lead
GSM-USB Cable	USB programming cable

CABLE SHIELD CONNECTION SYSTEM

TECHNICAL INFORMATION

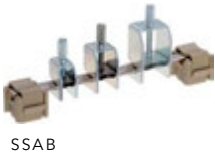


CABLE SHIELD CONNECTION

A high degree of interference immunity is required in the field of industrial process engineering. Cable shielding is an important factor in reducing interference - the point where the cable shielding connects being critical.

The connection should be low-ohm, and should also feature minimal inductive resistance. This must be established in a practical, simple and quick manner which Conta-Clip's SAB/SSAB cable shield connection system accomplishes.

SHIELD CLAMPS - BUSBAR MOUNTING



SSAB

SSAB 5	Shield Connector Clip 2-5mm suitable for 10x3mm Busbar
SSAB 8	Shield Connector Clip 3-8mm suitable for 10x3mm Busbar
SSAB 14	Shield Connector Clip 3-14mm suitable for 10x3mm Busbar
SSAB 20	Shield Connector Clip 3-20mm suitable for 10x3mm Busbar

SHIELD CLAMPS - DIRECT MOUNTING & DIN BASE



SAB Series with SH1

SAB8	Shield Connector 3-8mm with Direct Mounting Base
SAB13.5	Shield Connector 4-13.5mm with Direct Mounting Base
SAB20	Shield Connector 10-20mm with Direct Mounting Base
SAB32	Shield Connector 15-32mm with Direct Mounting Base
SAB8/D	Shield Connector 3-8mm with Direct Mounting Base with Fixing Screw
SAB13.5/D	Shield Connector 4-13.5mm with Direct Mounting Base with Fixing Screw
SAB20/D	Shield Connector 10-20mm with Direct Mounting Base with Fixing Screw
SAB32/D	Shield Connector 15-32mm with Direct Mounting Base & Fixing Screw
SAB8/F	Shield Connector 3-8mm with DIN Rail Mounting Base
SAB13.5/F	Shield Connector 4-13.5mm with DIN Rail Mounting Base
SAB20/F	Shield Connector 10-20mm with DIN Rail Mounting Base
SAB8/MF/35	Shield Connector 3-8mm with Clip-on DIN Rail Mounting Base
SAB13.5/MF/35	Shield Connector 4-13.5mm with Clip-on DIN Rail Mounting Base
SAB20/MF/35	Shield Connector 10-20mm with Clip-on DIN Rail Mounting Base
SAB32/MF/35	Shield Connector 15-32mm with Clip-on DIN Rail Mounting Base
MF/35	Shield Connector TS35 DIN Mounting Foot
BSM4x8	Fixing Screw

SAB.../D Series

SAB.../MF/35 Series

CABLE SHIELD CONNECTION / ACCESSORIES

CLAMPING YOKES



ZB4 range



ZB35 range

ZB4	Clamping yoke suitable for 10x3mm Busbar - 0.5-4mm ² conductor
ZB4/K-GNYE	Clamping yoke for 10x3mm Busbar - 0.5-4mm ² conductor - green/yellow
ZB4/K-B	Clamping yoke suitable for 10x3mm Busbar - 0.5-4mm ² conductor - blue
ZB4/K-BL	Clamping yoke suitable for 10x3mm Busbar - 0.5-4mm ² conductor - black
ZB16	Clamping yoke suitable for 10x3mm Busbar - 0.5-16mm ² conductor
ZB16/K-GNYE	Clamping yoke for 10x3mm Busbar - 0.5-16mm ² conductor - green/yellow
ZB35	Clamping yoke suitable for 10x3mm Busbar - 0.5-35mm ² conductor
ZB35/K-GNYE	Clamping yoke for 10x3mm Busbar - 0.5-35mm ² conductor - green/yellow

BUSBAR & BUSBAR SUPPORTS



SH1	SAB System Busbar Support suitable for 10x3mm Busbar, Direct
SHSAB	SAB System Busbar Support suitable for 10x3mm Busbar, DIN Rail
SSCH10x3CU	10x3mm Busbar, 1 meter, 100 Amp, Tinned Copper for SAB Shielding

ALUMINIUM ENCLOSURES - PAINT FINISH



CA 75/57	Aluminium enclosure 75 x 80 x 57 high mm - RAL 7001 paint finish
CA 122/80	Aluminium enclosure 122 x 120 x 80 high mm - RAL 7001 paint finish
CA 160/90	Aluminium enclosure 160 x 160 x 90 high mm - RAL 7001 paint finish
CA 330/110	Aluminium enclosure 330 x 230 x 110 high mm - RAL 7001 paint finish
CA 360/90	Aluminium enclosure 360 x 160 x 90 high mm - RAL 7001 paint finish

SCREWDRIVERS



SDB 0.4x2.0	Uninsulated Screwdriver 2.0mm blade, 75mm long shaft
SDB 0.5x3.0	Uninsulated Screwdriver 3.0mm blade, 75mm long shaft
SDB 0.6x3.5	Uninsulated Screwdriver 3.5mm blade, 100mm long shaft
SDI 0.4x2.5	Insulated Screwdriver 2.5mm blade 75mm long shaft
SDI 0.6x3.5	Insulated Screwdriver 3.5mm blade, 100mm long shaft

KDS CLICK CABLE ENTRY SYSTEMS

KDS - FRAMES



KDS-SR1-4BK	KDS-Click System Frame,IP66, Black
KDS-SR6/10BK	KDS-Click System Frame, IP66, Black
KDS-SR8/16BK	KDS-Click System Frame, IP66, Black
KDS-SR10/24BK	KDS-Click System Frame, IP66, Black
KDS-IVR1-4BK	KDS-Click Inner Locking Frame for KDS-SR1-4BK
KDS-IVR6/10BK	KDS-Click Inner Locking Frame for KDS-SR6/10BK
KDS-IVR8/16BK	KDS-Click Inner Locking frame for KDS-SR8/16BK
KDS-IVR10/24BK	KDS-Click Inner Locking Frame for KDS-SR10/24BK

KDS - FP FLANGE PLATES



KDS-FP-2x10/24BK	KDS FP Flange Plate - 2 x 10/24 - IP66, Black
KDS-FP-3x10/24BK	KDS-FP Flange Plate - 3 x 10/24 - IP66, Black
KDS-FP-IVR-OG	KDS-FP Flange Inner Lock

KDS - FB FRAMES FOR FLAT CABLES



KDS-SR-FB2/A	KDS-FB System Frame,IP66, Black
KDS-SR-FB2/B	KDS-FB System Frame,IP66, Black
KDS-SR-FB4/F	KDS-FB System Frame,IP66, Black

INLAYS



KDS-INLAY-1BK	KDS-Click Internal inlay - 1 way
KDS-INLAY-2BK	KDS-Click Internal Inlay - 2 way
KDS-INLAY-4BK	KDS Click Internal Inlay - 4 way
KDS-INLAY-6BK	KDS-Click Internal Inlay - 6 way

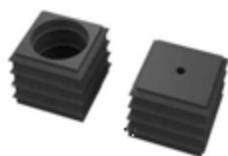
EMC SHIELD CONNECTION



KDS-EMV-SAB-1-4	KDS-Click Shield Connection Rail for KDS-SRI-4 Frame
KDS-EMV-SAB-6/10	KDS-Click Shield Connection Rail for KDS-SRG/10 Frame
KDS-EMV-SAB-8/16	KDS-Click Shield Connection Rail for KDS-SR8/16 Frame
KDS-EMV-SAB-10/24	KDS-Click Shield Connection Rail for KDS -SR10/24 Frame

KDS CABLE ENTRY SYSTEMS

SEAL - SMALL BLACK



KDS-DE-1.5-2BK	KDS System Seal, TPE, 1.5 - 2mm cable diameter
KDS-DE-2-3BK	KDS System Seal, TPE, 2 - 3mm cable diameter
KDS-DE-3-4BK	KDS System Seal, TPE, 3 - 4mm cable diameter
KDS-DE-4-5BK	KDS System Seal, TPE, 4 - 5mm cable diameter
KDS-DE-5-6BK	KDS System Seal, TPE, 5 - 6mm cable diameter
KDS-DE-6-7BK	KDS System Seal, TPE, 6 - 7mm cable diameter
KDS-DE-7-8BK	KDS System Seal, TPE, 7 - 8mm cable diameter
KDS-DE-8-9BK	KDS System Seal, TPE, 8 - 9mm cable diameter
KDS-DE-9-10BK	KDS System Seal, TPE, 9 - 10mm cable diameter
KDS-DE-10-11BK	KDS System Seal, TPE, 10-11mm cable diameter
KDS-DE-11-12BK	KDS System Seal, TPE, 11-12mm cable diameter
KDS-DE-12-13BK	KDS System Seal, TPE, 12-13mm cable diameter
KDS-DE-13-14BK	KDS System Seal, TPE, 13-14mm cable diameter
KDS-DE-14-15BK	KDS System Seal, TPE, 14-15mm cable diameter
KDS-DE-15-16BK	KDS System Seal, TPE, 15-16mm cable diameter
KDS-DE/B	KDS System Seal, TPE, Blind

SEAL - SMALL 2 & 4 HOLE



KDS-DE-2x4-5BK	KDS System Seal, TPE, Double 4-5mm cable diameter
KDS-DE-2x5-6BK	KDS System Seal, TPE, Double 5-6mm cable diameter
KDS-DE-2x6.5BK	KDS System Seal, TPE, Double 6.5mm cable diameter
KDS-DE-2x7BK	KDS System Seal, TPE, Double 7mm cable diameter
KDS-DE-2x8BK	KDS System Seal, TPE, Double 8mm cable diameter
KDS-DE-4x2-3BK	KDS System Seal, TPE, 4 x 2-3mm cable diameter
KDS-DE-4x3-4BK	KDS System Seal, TPE, 4 x 3-4mm cable diameter
KDS-DE-4x4.5BK	KDS System Seal, TPE, 4 x 4.5mm cable diameter
KDS-DE-4x5BK	KDS System Seal, TPE, 4 x 5mm cable diameter
KDS-DE-4x6BK	KDS System Seal, TPE, 4 x 6mm cable diameter

SEAL - SMALL OTHER



KDS-DE/K2-11BK	KDS Cone Style Seal, TPE, 2 to 11mm cable diameter
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SEAL - FLAT CABLE



KDS-DE-FB2/B	KDS FB Flat Cable Seal, TPE, 32.5 to 38mm x 5 to 5.5mm cable, Grey
KDS-DE-FB2/C	KDS FB Flat Cable Seal, TPE, 45 to 50.5mm x 6 to 6.5mm cable, Grey

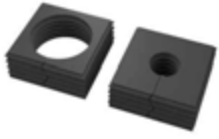
SEAL - SMALL GREY



KDS-DE-4-5GR	KDS System Seal, TPE, 4-5mm cable diameter
KDS-DE-6-7GR	KDS System Seal, TPE, 6-7mm cable diameter
KDS-DE/B GR	KDS System Seal, TPE, Blind

KDS CABLE ENTRY SYSTEMS

SEAL - LARGE BLACK



KDS-DEG-14-15BK	KDS System Seal, TPE, 14-15mm cable diameter
KDS-DEG-15-16BK	KDS System Seal, TPE, 15-16mm cable diameter
KDS-DEG-16-17BK	KDS System Seal, TPE, 16-17mm cable diameter
KDS-DEG-17-18BK	KDS System Seal, TPE, 17-18mm cable diameter
KDS-DEG-18-19BK	KDS System Seal, TPE, 18-19mm cable diameter
KDS-DEG-19-20BK	KDS System Seal, TPE, 19-20mm cable diameter
KDS-DEG-20-21BK	KDS System Seal, TPE, 20-21mm cable diameter
KDS-DEG-21-22BK	KDS System Seal, TPE, 21-22mm cable diameter
KDS-DEG-22-23BK	KDS System Seal, TPE, 22-23mm cable diameter
KDS-DEG-23-24BK	KDS System Seal, TPE, 23-24mm cable diameter
KDS-DEG-25-26BK	KDS System Seal, TPE, 25-26mm cable diameter
KDS-DEG-27-28BK	KDS System Seal, TPE, 27-28mm cable diameter
KDS-DEG-28-29BK	KDS System Seal, TPE, 28-29mm cable diameter
KDS-DEG-29-30BK	KDS System Seal, TPE, 29-30mm cable diameter
KDS-DEG-30-31BK	KDS System Seal, TPE, 30-31mm cable diameter
KDS-DEG-32-33BK	KDS System Seal, TPE, 32-33mm cable diameter
KDS-DEG-33-34BK	KDS System Seal, TPE, 33-34mm cable diameter
KDS-DEG-34-35BK	KDS System Seal, TPE, 34-35mm cable diameter
KDS-DEG/B	KDS System Seal, Large Format TPE, Blind

SEAL - LARGE OTHER



KDS-DEG/1xASIBK	KDS System Seal, TPE, suitable for ASI Cable
KDS-DEG/K7-24BK	KDS System Cone Seal, TPE, 7 to 24mm cable diameter

INSERTION TOOL



KDS-BW1	KDS System Actuating Tool
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SEPARABLE CABLE GLANDS





KDS-KV-M20BK	KDS Gland & Locknut M20 (small inserts)
KDS-KV-M50BK	KDS Gland & Locknut M50 (large inserts)

CABLE ENTRY SYSTEMS

KES CABLE ENTRIES - IP66

	KES14/24GR	14 Way Cable Entry - 5x3.2-6.3, 2x4-7.5, 3x5.5-10.5, 1x8-12.5, 3x12-16.2
	KES16-1/24GR	16 Way Cable Entry - 2x3.2-6.3, 9x4-7.5, 1x5.5-10.5, 1x8-12.5, 3x12-16.2
	KES14/24BK	14 Way Cable Entry - 5x3.2-6.3, 2x4-7.5, 3x5.5-10.5, 1x8-12.5, 3x12-16.2
	KES16-1/24BK	16 Way Cable Entry - 2x3.2-6.3, 9x4-7.5, 1x5.5-10.5, 1x8-12.5, 3x12-16.2
	KES20/24BK	20 Way Cable Entry - 12x3.2-6.3mm & 8x5.5-10.5mm - Black
	KES32/24BK	32 Way Cable Entry - 32x3.2-6.3mm - Black
	KES-R32/24GR	32 Way Cable Entry - 32x3.2-6.3mm - Grey - Snap On Mounting
	KES-R32/24BK	32 Way Cable Entry - 32x3.2-6.3mm - Black - Snap On Mounting

HYGIENIC (FOOD INDUSTRY) KES CABLE ENTRIES - IP66

	KES-GB14/24GR	14 Way Cable Entry - 5x3.2-6.3, 2x4-7.5, 3x5.5-10.5, 1x8-12.5, 3x12-16.2
	KES-GB16-1/24GR	16 Way Cable Entry - 2x3.2-6.3, 9x4-7.5, 1x5.5-10.5, 1x8-12.5, 3x12-16.2
	KES-GB20/24GR	20 Way Cable Entry - 12x3.2-6.3mm & 8x5.5-10.5mm
	KES-GB32/24GR	32 Way Cable Entry - 32x3.2-6.3mm
	KES-R16-1/24GR	16 Way Cable Entry - 2x3.2-6.3, 9x4-7.5, 1x5.5-10.5, 1x8-12.5, 3x12-16.2
	KES-R32/24GR	32 Way Cable Entry - 32x3.2-6.3mm

FLEXA

FLEXA claim to be the world largest manufacturer of flexible conduit and accessories and with a quality standard second to none. With their product range they have secured some of the largest projects in the world. FLEXA has products that are suitable for temperatures between -60°C up to + 230°C, classified up to IP 69K, resistant to solvents, liquid-tight, or with a silicone cover. No matter which protective conduit system you require, FLEXA will certainly have a solution

FLEXIBLE CONDUIT

FLEXIBLE CONDUIT - PA6-LL (IP68)



Flexible corrugated conduit made from high quality polyamide material. Temperature range of -25°C to +120°C. Air and liquid tight, resistant against acids and alkalis, highly resistant to solvents. UL & CSA Certified. Flame retardant - UV resistant - Halogen free.



Product Code	Size	O/D	Colour	Flexa code	Supply lengths
PA6-LL-M10	M10	10.0mm	black	0267.202.006	25 / 50m
PA6-LL-M12	M12	13.0 mm	black	0267.202.010	25 / 50m
PA6-LL-M16	M16	15.8 mm	black	0267.202.012	25 / 50m
PA6-LL-M20	M20	21.2 mm	black	0267.202.016	25 / 50m
PA6-LL-M25	M25	28.5 mm	black	0267.232.023	25 / 50m
PA6-LL-M32	M32	34.5 mm	black	0267.232.029	25m
PA6-LL-M40	M40	42.5 mm	black	0267.232.036	25m
PA6-LL-M50	M50	54.5 mm	black	0267.232.048	25m

FLEXIBLE CONDUIT - PA6-L (IP68) - HIGH IMPACT / HEAVY DUTY



Flexible corrugated conduit made from high impact polyamide material. Temperature range of -25°C to +120°C. Air & liquid tight, resistant against acids & alkalis, highly resistant to solvents. UL & CSA certified. Flame retardant - UV resistant - Halogen free.



Product Code	Size	O/D	Colour	Flexa code	Supply lengths
PA6-L-M12	M12	13.0mm	black	0261.202.010	25 / 50m
PA6-L-M16	M16	15.8 mm	black	0261.202.012	25 / 50m
PA6-L-M20	M20	21.2 mm	black	0261.202.016	25 / 50m
PA6-L-M25	M25	28.5 mm	black	0261.232.023	25 / 50m
PA6-L-M32	M32	34.5 mm	black	0261.232.029	25 m
PA6-L-M40	M40	42.5 mm	black	0261.232.036	25 m
PA6-L-M50	M50	54.5 mm	black	0261.232.048	25 m

FLEXIBLE CONDUIT - PA6 & PA6-S (IP68/IP69K) - HIGH IMPACT / HEAVY DUTY / HIGH TEMP



Flexible corrugated conduit made from high impact polyamide material. Temperature range of -40°C to +120°C (^+150°C). Air & liquid tight, resistant against acids & alkalis, highly resistant to solvents. UL & CSA certified. Flame retardant - UV resistant - Halogen free.



Product Code	Size	O/D	Colour	Flexa code	Supply lengths
PA6-M20	M20	21.2 mm	black	0233.202.016	25 / 50m
PA6-M25	M25	28.5 mm	black	0233.202.013	25 / 50m
PA6-M32	M32	34.5 mm	black	0233.202.029	25 m
PA6-M40	M40	42.5 mm	black	0233.202.036	25 m
PA6-M50	M50	54.5 mm	black	0233.202.048	25 m
PA6-S-M20	M20	21.2 mm	black	0261.202.016	25 / 50m
PA6-S-M25	M25	28.5 mm	black	0261.232.023	25 / 50m



Order Code in Bold: Stocked Item
Order Code in light: Subject to availability

FLEXIBLE CONDUIT

FLEXIBLE CONDUIT - PA6-D (IP68/IP69K) - HIGH IMPACT / EXTRA THICK WALL



Flexible corrugated conduit made from high quality polyamide material. Temperature range of -40°C to +120°C (^+150°C). Air and liquid tight, resistant against acids and alkalis, highly resistant to solvents. UL & CSA Certified. Flame retardant - UV resistant - Halogen free.



Product Code	Size	O/D	Colour	Flexa code	Supply lengths
PA6-D-M20	M20	21.2 mm	black	0237.202.016	25 / 50m
PA6-D-M25	M25	28.5 mm	black	0237.202.023	25 / 50m

FLEXIBLE CONDUIT - PA6-HT (IP68/IP69K) - HIGH IMPACT / HIGH TEMP



Flexible corrugated conduit made from high quality polyamide material. Temperature range of -25°C to +150°C (^+170°C). Air and liquid tight, resistant against acids and alkalis, highly resistant to solvents. UL & CSA Certified. Flame retarding - UV resistant - Halogen free.



Product Code	Size	O/D	Colour	Flexa code	Supply lengths
PA6-HT-M20	M20	21.2 mm	black	0254.202.016	25 / 50m
PA6-HT-M25	M25	28.5 mm	black	0254.202.023	25 / 50m

FLEXIBLE CONDUIT - PA6-MULTI (IP68/IP69K) - HIGH IMPACT / LARGE SIZE



Flexible corrugated conduit made from high quality polyamide material. Temperature range of -40°C to +120°C (^+150°C). Air and liquid tight, resistant against acids and alkalis, highly resistant to solvents. UL & CSA Certified. Flame retardant - UV resistant - Halogen free.



Product Code	Size	O/D	Colour	Flexa code	Supply lengths
PA6-MULTI-80	M80	79.2 mm	black	0206.202.070	10m

STRAIGHT ADAPTORS (IP66)



Straight high quality polyamide adaptor with screw connection and patented quick-fit conduit connection. Temperature range of -30°C to +100°C. Air & liquid tight, highly resistant against acids & solvents, resistant to oil and benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa Code	Packet Size
RQG1-M10	M10	black	5020.055.210	50
RQG1-M12	M12	black	5020.055.212	50
RQG1-M16	M16	black	5020.055.216	50
RQG1-M20	M20	black	5020.055.220	50
RQG1-M25	M25	black	5020.055.225	25
RQG1-M32	M32	black	5020.055.232	25
RQG1-M40	M40	black	5020.055.240	25
RQG1-M50	M50	black	5020.055.250	10
RQG1-M50/63	M50/M63 Thread	black	5020.055.263	10

FLEXIBLE CONDUIT

STRAIGHT ADAPTORS (IP68/IP69K)



Straight high quality polyamide adaptor with screw connection and patented quick-fit conduit connection. Temperature range of -40°C to +120°C. Air & liquid tight, highly resistant against acids & solvents, resistant to oil and benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa Code	Packet Size
RQG-M20	M20	black	5020.037.220	50
RQG-M25	M25	black	5020.037.225	25

STRAIGHT ADAPTORS WITH SPECIAL THREADS (IP66)



Straight high quality polyamide adaptor with screw connection and patented quick-fit conduit connection. Temperature range of -30°C to +100°C. Air & liquid tight, highly resistant against acids & solvents, resistant to oil and benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa Code	Packet Size
RQG1-M12/PG9	M12/PG9 Thread	black	5020.049.209	50
RQG1-M12/M16	M12/M16 Thread	black	5020.055.214	50
RQG1-M16/M20	M16/M20 Thread	black	5020.055.218	50
RQG1-M16/PG11	M20/PG11 Thread	black	5020.049.211	50
RQG1-M20/PG16	M20/PG16 Thread	black	5020.049.216	50
RQG1-M20/M25	M20/M25 Thread	black	5020.055.222	50
RQG1-M32/M40	M32/M40 Thread	black	5020.055.236	32

STRAIGHT ADAPTORS METRIC WITH LOCK NUT (IP66)



Straight high quality polyamide adaptor with screw connection and patented quick-fit conduit connection. Temperature range of -30°C to +100°C. Air & liquid tight, highly resistant against acids & solvents, resistant to oil and benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa code	Packet Size
RQG1-M16/LN	M16	black	with Lock Nut	50
RQG1-M20/LN	M20	black	with Lock Nut	50
RQG1-M25/LN	M25	black	with Lock Nut	25
RQG1-M32/LN	M32	black	with Lock Nut	25

PRESS-IN STRAIGHT ADAPTORS (IP66)



Straight high quality polyamide adaptor and patented quick-fit connection. Supplied with O-ring for installation without locknut with wall thickness of 1 to 2.5 mm. Temperature range of -30°C to +100°C. Resistant against impact, acids, solvents, oil and UV. Halogen free.

Product Code	Size	Colour	Flexa code	Bore hole Ø	Packet Size
RQG1-S-M12	M12	black	5020.082.209	14.9 mm	50
RQG1-S-M16	M16	black	5020.082.211	18.1 mm	50
RQG1-S-M20	M20	black	5020.082.216	22.0 mm	50
RQG1-S-M25	M25	black	5020.082.221	28.1 mm	25
RQG1-S-M32	M32	black	5020.082.229	36.5 mm	25



FLEXIBLE CONDUIT

STRAIGHT ADAPTORS WITH METAL THREAD (IP68/IP69K)



Straight high quality polyamide adaptor with nickel plated brass screw thread and patented quick-fit conduit connection. Temperature range of -30°C to $+100^{\circ}\text{C}$. Air & liquid tight, resistant against acids, solvents, oil and benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa code	Packet Size
RQ GK-M16/M20	M16 Conduit - M20 Thread	black	5107.015.220	50
RQ GK-M20	M20	black	5107.021.220	50
RQ GK-M25	M25	black	5107.028.225	25
RQ GK-M32	M32	black	5107.034.232	25
RQ GK-M32/M25	M32 Conduit - M25 Thread	black	5107.028.232	25
RQ GK-M32/PG29	M32 Conduit - PG29 Thread	black	5020.074.229	50
RQ GK-M40	M40	black	5107.042.240	10
RQ GK-M50	M50	black	5107.054.250	10
RQ GK-M63/M50	M50 Conduit - M63 Thread	black	5107.054.263	10

STRAIGHT ADAPTORS - INTERNAL THREAD (IP68/IP69K)



Straight high quality polyamide adaptor with internal screw connection and patented quick-fit conduit connection. Temperature range of -40°C to $+120^{\circ}\text{C}$. Air & liquid tight, highly resistant against acids & solvents, resistant to oil/benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa Code	Packet Size
RQ G2-M20	M20	black	5020.078.220	50
RQ G2-PG16	PG16	black	5020.081.216	50

STRAIGHT ADAPTORS - INTERNAL METAL THREAD (IP68/IP69K)



Straight high quality polyamide adaptor with internal metal screw connection and patented quick fit conduit connection. Temperature range of -40°C to $+120^{\circ}\text{C}$. Air & liquid tight, highly resistant against acids & solvents, resistant to oil/benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa Code	Packet Size
RQ GK2-M10/M12	M10/M12 Thread	black	5108.010.212	50

STRAIGHT ADAPTORS - PIPE FIXING WITH CLAMP (IP68/IP69K) - CLAMP INCLUDED



Straight high quality polyamide adaptor for pipe fixing with clamp and patented quick fit conduit connection. Temperature range of -40°C to $+120^{\circ}\text{C}$. Air & liquid tight, highly resistant against acids & solvents, resistant to oil/benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa Code	Packet Size
RQ GST-M20	M20	black	5604.021.220	50
RQ GST-M25	M25	black	5604.028.225	25

FLEXIBLE CONDUIT

ANGLE ADAPTORS - STANDARD (IP66)



Angle high quality polyamide adaptor with screw connection and patented quick-fit conduit connection. Temperature range of -30°C to $+100^{\circ}\text{C}$. Air & liquid tight, highly resistant against acids & solvents, resistant to oil and benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour	Flexa code	Packet size
RQW1-M10	M10	black	5020.051.210	50
RQW1-M12	M12	black	5020.051.212	50
RQW1-M16	M16	black	5020.051.218	50
RQW1-M20	M20	black	5020.051.222	50
RQW1-M25	M25	black	5020.051.228	25
RQW1-M32	M32	black	5020.051.234	10
RQW1-M40	M40	black	5020.051.242	10
RQW1-M50	M50	black	5020.051.254	10

ANGLE ADAPTORS - 45° & 90° (IP66)



Angle high quality polyamide adaptor with screw connection and patented quick-fit conduit connection. Temperature range of -30°C to $+100^{\circ}\text{C}$. Air & liquid tight, highly resistant against acids & solvents, resistant to oil and benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour/Angle	Flexa code	Packet size
RQB1-45-M20	M20	black/45°	5101.021.220	50
RQB1-45-M25	M25	black/45°	5101.028.225	25
RQB1-45-M32	M32	black/45°	5101.034.232	10
RQB1-90-M20	M20	black/90°	5104.021.220	50
RQB1-90-M25	M25	black/90°	5104.028.225	25
RQB1-90-M32	M32	black/90°	5104.034.232	10

ANGLE ADAPTORS - 45° & 90° WITH METAL THREAD (IP68)



Angle high quality polyamide adaptor with nickel plated brass and patented quick-fit conduit connection. Temperature range of -30°C to $+100^{\circ}\text{C}$. Air & liquid tight, highly resistant against acids & solvents, resistant to oil and benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Colour/Angle	Flexa code	Packet size
RQBK-45-M20	M20	black/45°	5102.021.220	50
RQBK-45-M25	M25	black/45°	5102.028.225	25
RQBK-90-M20	M20	black/90°	5105.021.220	50
RQBK-90-M25	M25	black/90°	5105.028.225	25
RQBK90-M32/M25	M32 Thread - M25 Conduit	black/90°	5105.028.232	25



FLEXIBLE CONDUIT

CONDUIT CLAMPS WITH COVER



One piece conduit clamp with centre fixing hole and ribbed fixing for strain relief of conduit. Made from high quality polyamide material. Temperature range of -30°C to 100°C. Different sizes can be joined alongside each other. UV resistant - Halogen free.

Product Code	Conduit size	Conduit O/D	Colour	Flexa code	Packet Size
RQS-M10	M10	10.0 mm	black	5030.020.207	50
RQS-M12	M12	13.0 mm	black	5030.020.209	50
RQS-M16	M16	15.8 mm	black	5030.020.211	50
RQS-M20	M20	21.2 mm	black	5030.020.216	50
RQS-M25	M25	28.5 mm	black	5030.020.221	25
RQS-M32	M32	34.5 mm	black	5030.020.229	25
RQS-M40	M40	42.5 mm	black	5030.020.236	25
RQS-M50	M50	54.5 mm	black	5030.020.248	10

CONDUIT CLAMPS - PLAIN AND COVERS



Low cost one piece polyamide conduit clamp with centre fixing hole and ribbed fixing for strain relief of conduit. Temperature -30°C to 100°C. UV resistant - Halogen free. RQHD is the cover for RQH - supplied separately. RQHV product joins two RQH conduit clamps together.

Product Code	Conduit size	Conduit O/D	Colour	Flexa code	Packet Size
RQH-M12	M12	13.0 mm	black	5030.025.209	50
RQH-M16	M16	15.8 mm	black	5030.025.211	50
RQH-M20	M20	21.2 mm	black	5030.025.216	50
RQH-M25	M25	28.5 mm	black	5030.025.221	25
RQH-M32	M32	34.5 mm	black	5030.025.229	25
RQH-M40	M40	42.5 mm	black	5030.025.236	25
RQHD-M12	M12	Cover	black	5030.026.209	50
RQHD-M16	M16	Cover	black	5030.026.211	50
RQHD-M20	M20	Cover	black	5030.026.216	50
RQHD-M25	M25	Cover	black	5030.026.221	25
RQHD-M32	M32	Cover	black	5030.026.229	25
RQHD-M40	M40	Cover	black	5030.026.236	25
RQHV	Joiner	—	black	5030.027.201	100



FLEXA CATALOGUE

Ask for your copy of the complete Flexa Flexible Conduit catalogue

FLEXIBLE CONDUIT

LOCKNUT - METRIC HIGH QUALITY PA



Locknut for screw connections made from high quality polyamide material. Temperature range of polyamide is -30°C to $+100^{\circ}\text{C}$. UV resistant - Halogen free.

Product Code	Size	Material	Colour	Flexa code	Packet size
GMK-M10	M10	polyamide	black	0309.000.210	100
GMK-M12	M12	polyamide	black	0309.000.212	100
GMK-M16	M16	polyamide	black	0309.000.216	100
GMK-M20	M20	polyamide	black	0309.000.220	100
GMK-M25	M25	polyamide	black	0309.000.225	100
GMK-M32	M32	polyamide	black	0309.000.232	100
GMK-M40	M40	polyamide	black	0309.000.240	50
GMK-M50	M50	polyamide	black	0309.000.250	25
GMK-M63	M63	polyamide	black	0309.000.263	10

LOCKNUT - METRIC NICKEL PLATED BRASS



Locknut for screw connections made from nickel plated brass material.

Product Code	Size	Material	Flexa code	Packet size
GM-M12	M12	Nickel plated brass	0531.000.012	100
GM-M16	M16	Nickel plated brass	0531.000.016	100
GM-M20	M20	Nickel plated brass	0531.000.020	100
GM-M25	M25	Nickel plated brass	0531.000.025	100
GM-M32	M32	Nickel plated brass	0531.000.032	100
GM-M40	M40	Nickel plated brass	0531.000.040	100
GM-M50	M50	Nickel plated brass	0531.000.050	100

Y CONNECTOR (IP69K)



Y type connector made from thermoplastic elastomer (TPE) or polyamide (PA). TPE connectors have internal circular ribs which hold the conduit in place and provide excellent compensation for vibration. TPE connector temperature range is -40°C to $+150^{\circ}\text{C}$. PA versions have the patented quick-fit conduit connection. Temperature range of -30°C to 100°C . UV resistant - Halogen free.

Product Code	Size	Conduit O/D	Material	Colour	Flexa code	Packet size
RQY-3xM12	M12	13.0 mm	PA	black	5020.033.202	10
RQY-2xM12/M16	M12/M16	13.0/15.8 mm	PA	black	5020.033.203	10
RQY-3xM16	M16	15.8 mm	PA	black	5020.033.204	10
RQY-2xM16/M20	M16/M20	15.8/21.2 mm	TPE	black	5020.033.206	10
RQY-2xM16/M25	M16/M25	15.8/28.5 mm	TPE	black	5020.033.213	10
RQY-3xM20	M20	21.2 mm	TPE	black	5020.033.207	10
RQY-2xM20/M25	M20/M25	21.2/28.5 mm	TPE	black	5020.033.208	10
RQY-2xM25/M32	M25/M32	28.5/34.5 mm	TPE	black	5020.033.209	10
RQY-2xM32/M40	M32/M40	34.5/42.5 mm	TPE	black	5020.033.210	10
RQY-2xM40/M50	M40/M50	42.5/54.5 mm	TPE	black	5020.033.211	5



FLEXIBLE CONDUIT

T CONNECTOR (IP69K)



T type connector made from thermoplastic elastomer (TPE). TPE connectors have internal circular ribs which holds the conduit in place and provides excellent compensation for vibration. Temperature range of -40°C to $+150^{\circ}\text{C}$. Includes one fixing hole and is available in a combination of sizes. UV resistant - Halogen free.

Product Code	Size	Conduit O/D	Colour	Flexa code	Packet size
RQT-3xM10	M10	10.0 mm	black	5020.067.203	10
RQT-3xM12	M12	13.0 mm	black	5020.067.207	10
RQT-3xM16	M16	15.8 mm	black	5020.067.208	10
RQT-3xM20	M20	21.2 mm	black	5020.067.201	10
RQT-2xM20/M25	M20/M25	21.2/28.5 mm	black	5020.067.209	10
RQT-2xM25/M16	M16/M25	15.8/28.5 mm	black	5020.067.213	10
RQT-3xM25	M25	28.5 mm	black	5020.067.202	10
RQT-2xM25/M32	M25/M32	28.5/34.5 mm	black	5020.067.210	10
RQT-3xM32	M32	34.5 mm	black	5020.067.211	10
RQT-3xM40	M40	42.5 mm	black	5020.067.212	10

CONDUIT END CAP (IP67)



Conduit end cap made from thermoplastic elastomer (TPE). TPE connectors have internal circular ribs which holds the conduit in place. Temperature range of -40°C to $+150^{\circ}\text{C}$. Provides excellent transition from conduit to cable. UV resistant - Halogen free.

Product Code	Size	Conduit O/D	Colour	Flexa code	Packet size
RQE-M12	M12	13.0 mm	black	5030.012.207	50
RQE-M16	M16	15.8 mm	black	5030.012.211	50
RQE-M20	M20	21.2 mm	black	5030.012.216	50
RQE-M25	M25	28.5 mm	black	5030.012.221	25
RQE-M32	M32	34.5 mm	black	5030.012.229	25
RQE-M40	M40	42.5 mm	black	5030.012.236	25
RQE-M50	M50	54.5 mm	black	5030.012.248	10

CONDUIT JOINER (IP69K)



One piece conduit joiner made from thermoplastic elastomer (TPE). TPE connectors have internal circular ribs which holds the conduit in place and provides excellent compensation for vibration. Temperature range of -40°C to $+150^{\circ}\text{C}$. UV resistant - Halogen free.

Product Code	Size	Conduit O/D	Colour	Flexa code	Packet size
RQK-M10	M10	10.0 mm	black	5020.066.210	10
RQK-M12	M12	13.0 mm	black	5020.066.207	10
RQK-M16	M16	15.8 mm	black	5020.066.208	10
RQK-M20	M20	21.2 mm	black	5020.066.201	10
RQK-M25	M25	28.5 mm	black	5020.066.202	10
RQK-M32	M32	34.5 mm	black	5020.066.203	10
RQK-M40	M40	42.5 mm	black	5020.066.204	10
RQK-M50	M50	54.5 mm	black	5020.066.205	10

FLEXIBLE CONDUIT

CONDUIT REDUCERS (IP68/IP69K)



Straight high quality polyamide reducer with internal screw connection and patented quick-fit conduit connection. Temperature range of -40°C to +120°C. Air & liquid tight, highly resistant against acids & solvents, resistant to oil/benzene. Impact resistant - UV resistant - Halogen free.

Product Code	Size	Conduit O/D	Colour	Flexa code	Packet size
RQGR-M20/M10	M20/M10	21.2/10.0 mm	black	5601.010.221	10
RQGR-M16/M12	M16/M12	15.8/13.0 mm	black	5601.013.215	10
RQGR-M20/M16	M20/M16	21.2/15.8 mm	black	5601.015.221	10
RQGR-M25/M20	M25/M20	28.5/21.2 mm	black	5601.021.228	10
RQGR-M32/M25	M32/M25	34.5/28.5 mm	black	5601.028.234	10
RQGR-M40/M32	M40/M32	42.5/34.5 mm	black	5601.034.242	10

CONNECTOR FIXING ANGLE



Passivated steel fixing angle for Metric type screw connections. Angle steel with through hole and two fastening holes.

Product Code	Size	Material	Flexa code	Packet size
BW-M16	M16	Passivated steel	5010.031.016	25
BW-M20	M20	Passivated steel	5010.031.020	25
BW-M25	M25	Passivated steel	5010.031.025	25
BW-M32	M32	Passivated steel	5010.031.032	25
BW-M40	M40	Passivated steel	5010.031.040	25
BW-M50	M50	Passivated steel	5010.031.050	25

TUBE CLAMP



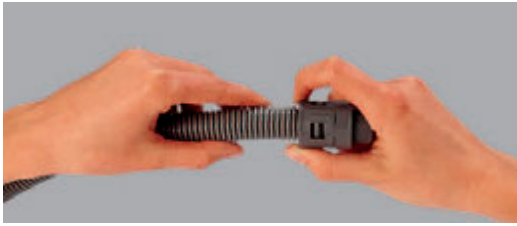
Galvanized steel with rubber profile tube clamp for securely holding a pipe with single fastening screw hole. Temperature range -20°C up to + 120°C.

Product Code	Tube Ø	Product Marking	Flexa code	Packet size
SKM-M10	9-10mm	10	0308.000.007	50
SKM-M12	13-14mm	15	0308.000.009	50
SKM-M16	15-17mm	18	0308.000.011	50
SKM-M18	18-20mm	20	0308.000.013	50
SKM-M20	20-22mm	22	0308.000.016	50
SKM-M25	27-29mm	28	0308.000.021	50
SKM-M32	34-37mm	35	0308.000.029	50
SKM-M40	40-45mm	42	0308.000.036	25
SKM-M50	54-57mm	54	0308.000.048	25
SKM-MULTI	80mm	N/A	0308.000.070	10



FLEXIBLE CONDUIT

ASSEMBLY INSTRUCTIONS



Cutting of conduit:

Cut the conduit between two ribs. More than one rib should not be passed while cutting the conduit. Flexa recommends the use of a cutting tool such as a knife or conduit cutter.

Assembly:

Push the conduit onto the connector until it cannot snap in any more and the connector can only be turned by force. The corrugated conduit pushes the claws of the adaptor between the ribs and this ensures a precise connection.

Disconnection:

This is achieved by pressing the ring toward the housing of the adaptor and then simply pulling the conduit out of the adaptor.

Conduit ratings:

In order to attain the IP ratings the above must be followed.



FURTHER INFORMATION



Ask for your copy of the complete FlexaRailway Technology catalogue



Ask for your copy of the Flexa Testing Methods technical catalogue



Ask for your copy of the Flexa High Temperature Solutions catalogue

FTG

FTG are part of an international group combining tradition and a down-to-earth attitude with high standards of innovation and quality. FTG has been part of the Amphenol Group, which was founded in 1932, since July 2016. The company is one of the world's largest manufacturers of connectors and has a diversified presence in rapidly growing markets which include automotive industry, broadband communication, aviation industry, industrial electrical and the switchboard building sector. FTG produce a range of pan assemblies, distribution terminal blocks and bus-bar connections and accessories. In 2019 FTG purchased the electrical installation material division from WERIT. With this acquisition, FTG in Triberg consolidates the product range of electrotechnical terminals.

POWER DISTRIBUTION BLOCKS

DISTRIBUTION BLOCKS - COPPER CONDUCTORS



- 38049 Input 25mm² - Output 2x2.5-25mm² & 4x2.5-6mm² - 80 Amp
- 38041 Input 35mm² & 25mm² - Output 6x2.5-16mm² - 125 Amp
- 38032 Input 70mm² - Output 6x2.5-25mm² - 160 Amp
- 38074 Input 70mm² - Output 10x2.5-16mm² - 175 Amp
- 38020 Input 120mm² - Output 2x2.5-35mm², 5x2.5-16mm², 4x2.5-10mm² - 250 Amp
- 38038 Connection Lug for 38020 - 250 Amp
- 38019 Input 185mm² - Output 2x2.5-35mm², 5x2.5-16mm², 4x2.5-10mm² - 400 Amp
- 38026 Connection Lug for 38019 - 400 Amp
- 38403 Input 240mm² - Output 6x10-50mm² - 400 Amp

PDB+ DISTRIBUTION BLOCKS - COPPER & ALUMINIUM CONDUCTORS



- 38680 Input 25mm² - Output 6x10mm² - 85/65 Amp
- 38682 Input 50mm² - Output 6x25mm² - 125/100 Amp
- 38684 Input 70mm² - Output 4x25mm² - 175/135 Amp
- 38686 Input 120mm² - Output 6x35mm² - 250/200 Amp
- 38688 Input 240mm² - Output 6x35mm² - 415/360 Amp
- C38BL PDB+ Series Marking Clip - Blue
- C38GN PDB+ Series Marking Clip - Green

LARGE DISTRIBUTION BLOCKS - COPPER & ALUMINIUM CONDUCTORS



- 38501 Input Busbar 4x20 to 10x25mm - Output 6 x 10-50mm² - 400/350 Amp
- 38503 Input 240mm² - Output 6x10-50mm² - 400/350 Amp
- 38059 Input 2x240mm² - Output 2x25-240mm² - 800/630 Amp
- 38063 Input 2x300mm² or Isoflexx 24x1x10 Busbar - Output 2x25-300mm² - 800/630 Amp
- 38650 Input 1x500mm² - Output 2x50-300mm² - 1100/900 Amp

KVIAC & BOW TERMINALS

KVIAC TERMINALS - COPPER & ALUMINIUM CONDUCTORS



KVIAC11016G Single Pole Distribution Block - 16mm² - 80 Amps

KVIAC11050G Single Pole Distribution Block - 50mm² - 160 Amps

KVIAC11095G Single Pole Distribution Block - 95mm² - 250 Amps

KVIAC11150G Single Pole Distribution Block - 150mm² - 315 Amps



KVIAC11240G Single Pole Distribution Block - 240mm² - 400 Amps

KVIAC13150G Single Pole Distribution Block - 150mm² - 320 Amps

KVIAC12050G Double Pole Distribution Block - 50mm² - 160 Amps

KVIAC12095G Double Pole Distribution Block - 95mm² - 250 Amps

KVIAC12150G Double Pole Distribution Block - 150mm² - 315 Amps

KVIAC12240G Double Pole Distribution Block - 240mm² - 400 Amps



KVIAC31035G Three Pole Distribution Block - 35mm² - 135 Amps

KVIAC31050G Three Pole Distribution Block - 50mm² - 160 Amps

KVIAC050 KVIAC 50mm² Distribution Block Cover - Grey

KVIAC095 KVIAC 95mm² Distribution Block Cover - Grey

KVIAC150 KVIAC 150mm² Distribution Block Cover - Grey

KVIAC240 KVIAC 240mm² Distribution Block Cover - Grey

BOW TERMINALS - COPPER CONDUCTORS



BKN1605 Bow Terminal for 5mm Busbar - 1.5-16mm² Conductor

BKN1610 Bow Terminal for 10mm Busbar - 1.5-16mm² Conductor

BKN3505 Bow Terminal for 5mm Busbar - 4-35mm² Conductor

BKN3510 Bow Terminal for 10mm Busbar - 4-35mm² Conductor

BKN7005 Bow Terminal for 5mm Busbar - 16-70mm² Conductor

BKN7010 Bow Terminal for 10mm Busbar - 16-70mm² Conductor

BKN12010 Bow Terminal for 10mm Busbar - 16-120mm² Conductor

BKN18510 Bow Terminal for 10mm Busbar - 16-185mm² Conductor

BOW TERMINALS - COPPER & ALUMINIUM CONDUCTORS



BKNA3510 Bow Terminal for 10mm Busbar - 4-35mm² Copper/Aluminium Conductor

BKNA7010 Bow Terminal for 10mm Busbar - 16-70mm² Copper/Aluminium Conductor

BKNA12010 Bow Terminal for 10mm Busbar - 16-120mm² Copper/Aluminium Conductor

BKNA18510 Bow Terminal for 10mm Busbar - 16-185mm² Copper/Aluminium Conductor

COMPACT POWER DISTRIBUTION

COMPACT POWER DISTRIBUTION BLOCKS - COPPER & ALUMINIUM



KA42 Spring Clamp Connection Terminal 690V/25A - IP33

KA42SP Spring Clamp Connection Terminal 690V/25A - IP44



KA352 125/100 Amp Distribution Block - 2x2.5-35mm², 1x1.5-10mm², Grey

KA352N 125/100 Amp Distribution Block - 2x2.5-35mm², 1x1.5-10mm², Blue

KA352PE 125/100 Amp Distribution Block - 2x2.5-35mm², 1x1.5-10mm², Green



KA502 160/125 Amp Distribution Block - 2x6-50mm², 1x1.5-10mm², Grey

KA502N 160/125 Amp Distribution Block - 2x6-50mm², 1x1.5-10mm², Blue

KA502PE 160/125 Amp Distribution Block - 2x6-50mm², 1x1.5-10mm², Green



KA503 160/125 Amp Distribution Block - 3x6-50mm², 2x1.5-10mm², Grey

KA503N 160/125 Amp Distribution Block - 3x6-50mm², 2x1.5-10mm², Blue

KA503PE 160/125 Amp Distribution Block - 3x6-50mm², 2x1.5-10mm², Green

KA504 160/125 Amp Distribution Block - 4x6-50mm², 3x1.5-10mm², Grey

KA504N 160/125 Amp Distribution Block - 4x6-50mm², 3x1.5-10mm², Blue

KA504PE 160/125 Amp Distribution Block - 4x6-50mm², 3x1.5-6mm², Green

KAH KA5 Series DIN Rail Holder

BLANKING STRIP

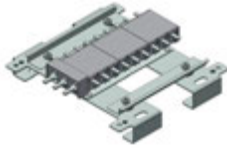


BA1000W Switchboard Blanking Strip - White - 1000mm long cuttable

BAV1 Interlocking Part for BA1000W Blanking Strip

PAN ASSEMBLIES & ACCESSORIES

PAN ASSEMBLIES - 125 AMP

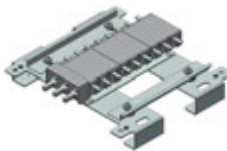


- P104O3P18P01-01 Pan Assembly suitable for all MCB Types, 125 Amp, 4 Way 12 Pole
- P106O3P18P01-01 Pan Assembly suitable for all MCB Types, 125 Amp, 6 Way 18 Pole
- P108O3P18P01-01 Pan Assembly suitable for all MCB Types, 125 Amp, 8 Way, 24 Pole
- P112O3P18P01-01 Pan Assembly suitable for all MCB Types, 125 Amp, 12 Way, 36 Pole
- P116O3P18P01-01 Pan Assembly suitable for all MCB Types, 125 Amp, 16 Way, 48 Pole
- P120O3P18P01-01 Pan Assembly suitable for all MCB Types, 125 Amp, 20 Way, 60 Pole



- ACCI125-18-42-18 Pan Assembly Spreader Kit - 125 Amp, Pin Type
- ACCI250-30-60M6 Pan Assembly Spreader Kit - 250 Amp, M6
- ACCI250-35-60M8 Pan Assembly Spreader Kit - 250 Amp, M8
- 802-ESB50 Pan Assembly Connection Terminal, 160 Amp, 50mm²
- BRL5 Contact Protection - Yellow with Lightning Bolt Warning - set of 5
- BRL5-WP Contact Protection - Yellow Plain - set of 5

PAN ASSEMBLIES - 250 AMP






- P204O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 4 Way 12 Pole
- P206O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 6 Way 18 Pole
- P208O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 8 Way 24 Pole
- P210O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 10 Way 30 Pole
- P212O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 12 Way 36 Pole
- P214O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 14 Way 42 Pole
- P216O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 16 Way 48 Pole
- P218O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 18 Way 54 Pole
- P220O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 20 Way 60 Pole
- P224O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 24 Way 72 Pole
- P228O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 28 Way 84 Pole
- P230O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 30 Way 90 Pole
- P232O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 32 Way 96 Pole
- P234O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 34 Way 102 Pole
- P236O3P18P01-01 FTG PAN Assembly suitable for all MCB Types, 250 Amp, 36 Way 108 Pole



- ACCI250-30-60M6 Pan Assembly Spreader Kit - 250 Amp, M6
- ACCI250-35-60M8 Pan Assembly Spreader Kit - 250 Amp, M8
- BRL5 Contact Protection - Yellow with Lightning Bolt Warning - set of 5
- BRL5-WP Contact Protection - Yellow Plain - set of 5

CONNECTION SOLUTIONS


STRIP CONNECTORS

 <p>1102, 1122 & 1142</p>	1102	Size 2.5mm ² , 24 Amp
	1122	Size 4-6mm ² , 32 Amp
	1142	Size 10mm ² , 57 Amp
	1152	Size 16mm ² , 76 Amp
 <p>12230</p>	1162	Size 25mm ² , 101 Amp
	1606	Size 2.5mm ² , 12 Amp - with Wire Protector
	1626	Size 4mm ² , 20 Amp - with Wire Protector
	1636	Size 6mm ² , 20 Amp - with Wire Protector
 <p>1629</p>	1646	Size 10mm ² , 25 Amp - with Wire Protector
	122300	DIN Rail Mounted Strip connector - 7 Pole - 6mm ² , 25 Amp
	1609	12 Pole Plug-in Strip connector with Screw Connection, 1.5mm ² , 10 Amps
	1629	12 Pole Plug-in Strip connector with Screw Connection, 2.5mm ² , 16 Amps
	16292	Strip connector 1629 - Socket only
1682	12 Pole Strip connector with Screw Connection, 4mm ² , 20 Amps	

DIN RAIL MOUNTED MULTIPOLE TERMINALS

 <p>12548</p>	12538	3 Pole, 4 Connections Per Pole, 25mm ² Connections, 100 Amps
	12548	4 Pole, 4 Connections Per Pole, 25mm ² Connections, 100 Amps
	12358	3 Pole, 4 and One of 8 Connections Per Pole, 25mm ² Connections, 100 Amps

SCREWLESS CONNECTORS WITH LEVERS

	15402000	2 Pole Connector - 0.2 to 2.5mm ² / 450V / 24 Amps - Box of 100
	15403000	3 Pole Connector - 0.2 to 2.5mm ² / 450V / 24 Amps - Box of 100
	15405000	5 Pole Connector - 0.2 to 2.5mm ² / 450V / 24 Amps - Box of 50

GLW

GLW products are produced in Kisslegg in Germany and sold exclusively through their distribution partners. Through their in-house toolmaking and injection moulding department they are able to offer high quality products. With a number of tools and machines to complement their range of Bootlace Ferrules, GLW are a great addition to the products we are able to offer our customers.

FERRULES

GLW wire ferrules are available from 0.25mm² to 185mm² sizing with varying connection lengths. The insulated ferrules meet DIN, German and KDS colour standards and with ferrules available in single, and twin format, uninsulated and boxed reels there will be a solution for your requirement.


DIN STANDARD FERRULES

H0.25/8Y - GLW	Ferrule - 0.25mm - Length of uninsulated component 8mm - YELLOW	500
H0.5/8W - GLW	Ferrule 0.5mm - Length of uninsulated component 8mm - WHITE	100
H0.5/10W - GLW	Ferrule 0.5mm - Length of uninsulated component 10mm - WHITE	500
H0.75/10GR - GLW	Insulated Ferrule 0.75mm - Length of uninsulated component 10mm - GREY	100
H0.75/12GR - GLW	Ferrule - 0.75mm - Length of insulated component 12mm - GREY	100
H0.75/6GR - GLW	Ferrule 0.75mm - Length of uninsulated component 6mm - GREY	500
H0.75/8GR - GLW	Ferrule 0.75mm - Length of uninsulated component 8mm - GREY	100
H1.0/8R - GLW	Ferrule 1.0mm - Length of insulated component 8mm - RED	100
H1.0/10R - GLW	Ferrule 1.0mm - Length of uninsulated component 10mm - RED	100
H1.0/12R - GLW	Ferrule 1.0mm - Length of uninsulated component 12mm - RED	100
H1.5/8BL - GLW	Ferrule 1.5mm - Length of uninsulated component 8mm - BLACK	100
H2.5/8B - GLW	Ferrule 2.5mm - Length of insulated component 8mm - BLUE	100
H2.5/12B - GLW	Ferrule - 2.5mm - Length of uninsulated component 12mm - BLUE	100
H2.5/18B - GLW	Ferrule 2.5mm - Length of uninsulated component 18mm - BLUE	500
H4.0/10GR - GLW	Ferrule 4.0mm - Length of insulated component 10mm - GREY	100
H6.0/12Y - GLW	Ferrule 6.0mm - Length of uninsulated component 12mm - YELLOW	100
H10.0/12R - GLW	Ferrule - 10.0mm - Length of uninsulated component 12mm - RED	100
H10.0/18R - GLW	Ferrule 10.0mm - Length of uninsulated component 18mm - RED	100
H16.0/12B - GLW	Ferrule - 16.0mm - Length of insulated component 12mm - BLUE	100
H16.0/18B - GLW	Ferrule 16.0mm - Length of insulated component 18mm - BLUE	100
H25.0/16Y - GLW	Ferrule - 25.0mm - Length of insulated component 16mm - YELLOW	50
H35.0/16R - GLW	Ferrule 35.0mm - Length of insulated component 16mm - RED	50
H50.0/20B - GLW	Ferrule 50.0mm - Length of insulated component 20mm - BLUE	50
H95.0/25R - GLW	Ferrule 95.0mm - Length of uninsulated component 25mm - RED	25
H16.0/18B - GLW	Ferrule 16.0mm - Length of insulated component 18mm - BLUE	100
H25.0/16Y - GLW	Ferrule - 25.0mm - Length of insulated component 16mm - YELLOW	50
H35.0/16R - GLW	Ferrule 35.0mm - Length of insulated component 16mm - RED	50
H50.0/20B - GLW	Ferrule 50.0mm - Length of insulated component 20mm - BLUE	50
H95.0/25R - GLW	Ferrule 95.0mm - Length of uninsulated component 25mm - RED	25




FERRULES


GERMAN STANDARD FERRULES

	H0.25/6LB - GLW	Ferrule - 0.25mm - Length of uninsulated component 6mm - LIGHT BLUE	100
	H0.25/12LB - GLW	Ferrule 0.25mm - Length of uninsulated component 12mm - LIGHT BLUE	100
	H0.34/12T - GLW	Insulated Ferrule 0.34mm - Length of uninsulated component 12mm - TURQUOISE	100
	H0.5/8O - GLW	Ferrule - 0.50mm - Length of uninsulated component 8mm - ORANGE	100
	H0.5/10O - GLW	Ferrule 0.5mm - Length of uninsulated component 10mm - ORANGE	500
	H0.75/8W - GLW	Ferrule 0.75mm - Length of uninsulated component 8mm - WHITE	100
	H0.75/12W - GLW	Ferrule 0.75mm - Length of insulated component 12mm - WHITE	100
	H1.0/8Y - GLW	Ferrule - 1.0mm - Length of uninsulated component 8mm - YELLOW	100
	H1.0/10Y - GLW	Ferrule 1.0mm - Length of uninsulated component 10mm - YELLOW	100
	H1.0/12Y - GLW	Ferrule 1.0mm - Length of uninsulated component 12mm - YELLOW	100
	H1.5/8R - GLW	Ferrule - 1.5mm - Length of uninsulated component 8mm - RED	100
	H4.0/12GR - GLW	Ferrule 4.0mm - Length of insulated component 12mm - GREY	100
	H6.0/12BL - GLW	Ferrule 6.0mm - Length of insulated component 12mm - BLACK	100
	H10.0/12I - GLW	Ferrule - 10.0mm - Length of insulated component 12mm - IVORY	100
	H10.0/18I - GLW	Ferrule - 10.0mm - Length of uninsulated component 18mm - IVORY	100
	H16.0/12G - GLW	Ferrule - 16.0mm - Length of insulated component 12mm - GREEN	100
	H25.0/16BR - GLW	Ferrule - 25.0mm - Length of insulated component 16mm - BROWN	50
	H25.0/22BR - GLW	Ferrule - 25.0mm - Length of insulated component 22mm - BROWN	50
	H35.0/16BE - GLW	Ferrule 35.0mm - Length of insulated component 16mm - BEIGE	50
H50.0/20OL - GLW	Ferrule 50.0mm - Length of uninsulated component 20mm - OLIVE	50	
H120.0/30B - GLW	Ferrule 120.0mm - Length of uninsulated component 30mm - BLUE	25	
H150.0/32Y - GLW	Ferrule 150.0mm - Length of uninsulated component 32mm - YELLOW	25	

KDS STANDARD FERRULES












	H0.75/8LB - GLW	Ferrule - 0.75mm - Length of uninsulated component 8mm - LIGHT BLUE	100
	H0.75/12LB - GLW	Ferrule 0.75mm - Length of uninsulated component 12mm - LIGHT BLUE	100
	H2.5/8GR - GLW	Ferrule 2.5mm - Length of insulated component 8mm - GREY	100
	H4.0/10O - GLW	Ferrule 4.0mm - Length of insulated component 10mm - ORANGE	100
	H6.0/12G - GLW	Ferrule 6.0mm - Length of insulated component 12mm - GREEN	100

DIN STANDARD DOUBLE BOOTLACE FERRULES

	H2x0.5/8W - GLW	Ferrule 2x 0.5mm - Length of uninsulated component 8mm - WHITE	100
	H2x0.75/8GR - GLW	Ferrule 2x 0.75mm - Length of uninsulated component 8mm - GREY	100
	H2x0.75/12GR - GLW	Ferrule 2x 0.75mm - Length of uninsulated component 12mm - GREY	100
	H2x1.0/8R - GLW	Ferrule 2x 1.0mm - Length of uninsulated component 8mm - RED	100
	H2x1.0/12R - GLW	Ferrule 2x 1.0mm - Length of insulated component 12mm - RED	100
	H2x1.5/8BL - GLW	Ferrule 2x 1.5mm - Length of uninsulated component 8mm - BLACK	100
	H2x1.5/12BL - GLW	Ferrule 2x 1.5mm - Length of uninsulated component 12mm - BLACK	100
	H2x2.5/10B - GLW	Ferrule 2x 2.5mm - Length of uninsulated component 10mm - BLUE	100
	H2x2.5/12B - GLW	Ferrule 2x 2.5mm - Length of uninsulated component 12mm - BLUE	100
	H2x4.0/12GR - GLW	Ferrule 2x 4.0mm - Length of uninsulated component 12mm - GREY	100
	H2x16.0/16B - GLW	Ferrule 2x 16.0mm - Length of uninsulated component 16mm - BLUE	50

FERRULES
















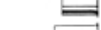









GERMAN STANDARD DOUBLE BOOTLACE FERRULES

	H2x0.5/8O - GLW	Ferrule 2x 0.5mm - Length of uninsulated component 8mm - ORANGE	100
	H2x0.75/8W - GLW	Ferrule 2x 0.75mm - Length of uninsulated component 8mm - WHITE	100
	H2x0.75/10W - GLW	Ferrule 2x 0.75mm - Length of uninsulated component 10mm - WHITE	100
	H2x1.0/8Y - GLW	Ferrule 2x 1.0mm - Length of uninsulated component 8mm - YELLOW	100
	H2x1.0/12Y - GLW	Ferrule 2x 1.0mm - Length of uninsulated component 12mm - YELLOW	100
	H2x1.5/8R - GLW	Ferrule 2x 1.5mm - Length of uninsulated component 8mm - RED	100
	H2x1.5/12R - GLW	Ferrule 2x 1.5mm - Length of uninsulated component 12mm - RED	100
	H2x2.5/10B - GLW	Ferrule 2x 2.5mm - Length of uninsulated component 10mm - BLUE	100
	H2x2.5/12B - GLW	Ferrule 2x 2.5mm - Length of uninsulated component 12mm - BLUE	100
	H2x4.0/12GR - GLW	Ferrule 2x 4.0mm - Length of uninsulated component 12mm - GREY	100
	H2x16.0/16G - GLW	Ferrule 2x 16.0mm - Length of uninsulated component 16mm - GREEN	50

KDS STANDARD DOUBLE BOOTLACE FERRULES

	H2x0.5/8W - GLW	Ferrule 2x 0.5mm - Length of uninsulated component 8mm - WHITE	100
	H2x0.75/12LB - GLW	Ferrule 2x 0.75mm - Length of uninsulated component 12mm - LIGHT BLUE	500
	H2x1.0/8R - GLW	Ferrule 2x 1.0mm - Length of uninsulated component 8mm - RED	100
	H2x1.0/12R - GLW	Ferrule 2x 1.0mm - Length of insulated component 12mm - RED	100
	H2x1.5/8BL - GLW	Ferrule 2x 1.5mm - Length of uninsulated component 8mm - BLACK	100
	H2x1.5/12BL - GLW	Ferrule 2x 1.5mm - Length of uninsulated component 12mm - BLACK	100

UNINSULATED BOOTLACE FERRULES

	H0.5/6 - GLW	Uninsulated Ferrule 0.5mm - Length 6mm	1000
	H0.75/6 - GLW	Uninsulated Ferrule 0.75mm - Length 6mm	1000
	H1.0/10 - GLW	Uninsulated Ferrule 1.0mm - Length 10mm	1000
	H1.0/6 - GLW	Uninsulated Ferrule 1.0mm - Length 6mm	1000
	H1.5/10 - GLW	Uninsulated Ferrule 1.5mm - Length 10mm	1000
	H1.5/7 - GLW	Uninsulated Ferrule 1.5mm - Length 7mm	1000
	H2.5/12 - GLW	Uninsulated Ferrule 2.5mm - Length 12mm	1000
	H2.5/7 - GLW	Uninsulated Ferrule 2.5mm - Length 7mm	1000
	H4.0/9 - GLW	Uninsulated Ferrule 4.0mm - length 9mm	1000
	H6.0/12 - GLW	Uninsulated Ferrule 6.0mm - Length 12mm	1000
	H10.0/15 - GLW	Uninsulated Ferrule 10.0mm - Length 15mm	500
	H10.0/12 - GLW	Uninsulated Ferrule 10.0mm - Length 12mm	500
	H10.0/18 - GLW	Uninsulated Ferrule 10.0mm - Length 18mm	500
	H16.0/12 - GLW	Uninsulated Ferrule 16.0mm - Length 12mm	250
	H16.0/15 - GLW	Uninsulated Ferrule 16.0mm - Length 15mm	250
	H16.0/18 - GLW	Uninsulated Ferrule 16.0mm - Length 18mm	250
	H16.0/25 - GLW	Uninsulated Ferrule 16.0mm - Length 25mm	250
	H16.0/32 - GLW	Uninsulated Ferrule 16.0mm - Length 32mm	250
	H25.0/18 - GLW	Uninsulated Ferrule 25.0mm - Length 18mm	100
	H25.0/25 - GLW	Uninsulated Ferrule 25.0mm - Length 25mm	100
	H25.0/32 - GLW	Uninsulated Ferrule 25.0mm - Length 32mm	100
	H35.0/18 - GLW	Uninsulated Ferrule 35.0mm - Length 18mm	100
	H35.0/32 - GLW	Uninsulated Ferrule 35.0mm - Length 32mm	100
	H50.0/32 - GLW	Uninsulated Ferrule 50.0mm - Length 32mm	100
	H70.0/25 - GLW	Uninsulated Ferrule 70.0mm - Length 25mm	100
	H95.0/32 - GLW	Uninsulated Ferrule 95.0mm - Length 32mm	50
	H120.0/32 - GLW	Uninsulated Ferrule 120.0mm - Length 32mm	50
	H150.0/32 - GLW	Uninsulated Ferrule 150.0mm - Length 32mm	50
	H185.0/32 - GLW	Uninsulated Ferrule 185.0mm - Length 32mm	25

FERRULES

TC MACHINE FERRULES - ROLLS



TC-H0.5/8O	TC Machine Ferrule 0.5mm ² - Length of insulated component 8mm - ORANGE	1000
TC-H0.5/8W	TC Machine Ferrule 0.5mm ² - Length of insulated component 8mm - WHITE	1000
TC-H0.75/8GR	TC Machine Ferrule 0.75mm ² - Length of insulated component 8mm - GREY	1000
TC-H0.75/8W	TC Machine Ferrule 0.75mm ² - Length of insulated component 8mm - WHITE	1000
TC-H1.0/8R	TC Machine Ferrule 1.0mm ² - Length of insulated component 8mm - RED	1000
TC-H1.0/8Y	TC Machine Ferrule 1.0mm ² - Length of insulated component 8mm - YELLOW	1000
TC-H1.5/8BL	TC Machine Ferrule 1.5mm ² - Length of insulated component 8mm - BLACK	1000
TC-H1.5/8R	TC Machine Ferrule 1.5mm ² - Length of insulated component 8mm - RED	1000

BOOTLACE FERRULE STRIPPING AND CRIMPING MACHINES



TC05	TC Automated Stripping and Crimping Machine- Hand Held Battery Operated Tool - suitable for 0.5mm ² GLW Ferrule Strips
TC07	TC Automated Stripping and Crimping Machine- Hand Held Battery Operated Tool - suitable for 0.75mm ² GLW Ferrule Strips
TC10	TC Automated Stripping and Crimping Machine- Hand Held Battery Operated Tool - suitable for 1.0mm ² GLW Ferrule Strips
TC15	TC Automated Stripping and Crimping Machine- Hand Held Battery Operated Tool - suitable for 1.5mm ² GLW Ferrule Strips

GROTHE

Grothe was established in 1892 and manufactures signalling products for domestic, commercial and industrial installations. Their wide-ranging assortment of products include chimes, push buttons, safety transformers, bell transformers and signalization products for industry, public buildings, schools and much more.

DOOR CHIMES

ECHO-230-SW



HiFi Chime with brilliant sound quality where you can play your own sounds. Complete with optical signalisation and software. Sounds can be loaded with Micro-SD Card (not supplied). Supply 8/12VAC/DC or 230VAC.

Colour: Black/White - 43540

ECHO-230-SW

ECHO-230-WS



HiFi Chime with brilliant sound quality where you can play your own sounds. Complete with optical signalisation and software. Sounds can be loaded with Micro-SD Card (not supplied). Supply 8/12VAC/DC or 230VAC.

Colour: White - 43541

ECHO-230-WS

ECHO-120-SW



HiFi Chime with brilliant sound quality where you can play your own sounds. Complete with optical signalisation and software. Sounds can be loaded with Micro-SD Card (not supplied). Supply 8/12VAC/DC.

Colour: Black/White - 43530

ECHO-120-SW

ECHO-120-WS



HiFi Chime with brilliant sound quality where you can play your own sounds. Complete with optical signalisation and software. Sounds can be loaded with Micro-SD Card (not supplied). Supply 8/12VAC/DC.

Colour: White - 43531

ECHO-120-WS

CROMA 230A



Electronic Chime with 17 brilliant polyphone tones which includes special tone sequence for people with hearing difficulties. Supply 8/12VAC/DC or 230VAC. Can be paralleled to other chimes and features an adjustable volume control.

Colour: White/Grey - 43175

CROMA 230A

CROMA 230A-A/W



Electronic Chime with 17 brilliant polyphone tones which includes special tone sequence for people with hearing difficulties. Supply 8/12VAC/DC or 230VAC. Can be paralleled to other chimes and features an adjustable volume control.

Colour: White with Aluminium finish - 43190

CROMA 230-ALU

DOOR CHIMES

CROMA 231A



Electronic Chime with 17 brilliant polyphone tones which includes special tone sequence for people with hearing difficulties. Supply 8/12VAC/DC or 230VAC. Can be paralleled to other chimes and features an adjustable volume control.

Colour: Silver/Grey - 43177

CROMA 231A

CROMA 231A-WS/SI



Electronic Chime with 17 brilliant polyphone tones which includes special tone sequence for people with hearing difficulties. Supply 8/12VAC/DC or 230VAC. Can be paralleled to other chimes and features an adjustable volume control.

Colour: Silver/White - 43196

CROMA 231A-ws/si

CROMA 231A-WS/SW



Electronic Chime with 17 brilliant polyphone tones which includes special tone sequence for people with hearing difficulties. Supply 8/12VAC/DC or 230VAC. Can be paralleled to other chimes and features an adjustable volume control.

Colour: Black/White - 43197

CROMA 231A-ws/sw

CROMA 231A-WS/SW



Electronic Chime with 17 brilliant polyphone tones which includes special tone sequence for people with hearing difficulties. Supply 8/12VAC/DC or 230VAC. Can be paralleled to other chimes and features an adjustable volume control.

Colour: White - 43195

CROMA 231A-ws/ws

CROMA 100A



Electronic Chime with 17 brilliant polyphone tones which includes special tone sequence for people with hearing difficulties. Supply 8/12VAC/DC or battery operation available. Can be paralleled to other chimes and features an adjustable volume control.

Colour: White with Aluminium finish - 43170

CROMA 100A

CROMA 50



Electronic Chime with 3 tones. Battery Operated (4x1.5 C type not included). Can be paralleled to other Chimes and features an adjustable volume control.

Colour: White/Grey - 43150

CROMA 50

DOOR CHIMES

CHIME 225A



Electronic Chime with 3 tones. Battery Operated (4x1.5 C type not included). Can be paralleled to other Chimes and features an adjustable volume control. Timeless design.

Colour: White - 43225

Chime 225A

CHIME 169ATRW



Electromechanical 2 Tone Chime with integrated 230VAC transformer.

Colour: White - 44172

Chime 169TRw

CHIME 169BW



Electromechanical 2 Tone Chime. Battery Operated (4x1.5 C type not included) also suitable for 8-12VAC supply transformer.

Colour: White - 44169

Chime 169Bw

CHIME 065



Electromechanical 2 Tone Chime for operation with an external transformer or a 9V D type battery (not included).

Colour: Silver triangle/White - 44065

Chime 065

CHIME 665



Electromechanical 2 Tone Chime for operation with an external transformer or a 9V D type battery (not included).

Colour: Blue square/White - 44665

Chime 665

CHIME 565



Electromechanical 2 Tone Chime for operation with an external transformer or a 9V D type battery (not included).

Colour: Silver square/White - 44565

Chime 565

CHIME 569W



Electromechanical 2 Tone Chime for operation with an external transformer or 4x1.5V C type batteries (not included).

Colour: White - 44569

Chime 569W

DOOR CHIMES & BELL

CHIME 265BW



Electromechanical 2 Tone Chime. Battery Operated (9V type not included) also suitable for 8-12VAC supply transformer.

Colour: White - 44265

Chime 265Bw

BELL LTW 1101A



Electromechanical Bell with white plastic housing. 8VAC supply 84dB output - 24075

LTW 1101A

DOOR CHIME ACCESSORIES

ETA-S-100 SERIES



Stainless steel circular door chime push button in solid design

ETA-S-100 - 55540

ETA-S-100LEDws with white LED - 55542

ETA-S-200 SERIES



Stainless steel square door chime push button in solid design

ETA-S-200 - 55541

ETA-S-200LEDws with white LED - 55544

ETA-S-102



Door Chime push button made of stainless steel material - circular design

ETA-S-102 - 55912

ETA-S-202



Door Chime push button made of stainless steel material - square design

ETA-S-202 - 55922

DOOR CHIME ACCESSORIES

ETA-S-302 SERIES



Door Chime push button made of stainless steel material - oval design
ETA-S-302 - 55932

ETA-S-402



Door Chime push button made of stainless steel material rectangular design
ETA-S-402 - 55942

ETA-2310



Surface mounted cast brass door chime push button - brushed brass finish
ETA-2310 - 55595

ETA-2312



Surface mounted cast brass door chime push button - textured and burnished brass finish
ETA-2312 - 55597

KKO-2002-SW



Door Chime push button with illuminated Name Strip - Colour Black
KKO-2002-SW - 64086

KKO-2002-WS



Door Chime push button with illuminated Name Strip - Colour White
KKO-2002-WS - 64085

KKO-2018



Door Chime push button with stainless steel colour finish
KKO-2018 - 64033

DOOR CHIME ACCESSORIES

KKO-2019



Door Chime push button including Name Plate with stainless steel colour finish.
KKO-2019 - 64034

MONTILUX



Surface mounted plastic weatherproof door chime push button with illuminated name strip.
Montilux - 51011

ETA-2132 & ETA-2122



Surface mounted plastic weatherproof door chime push button with name strip.
ETA-2132 illuminated - 51015
ETA-2122 non-illuminated - 51014

KKO SERIES



Surface mounted plastic weatherproof door chime push button - non-illuminated.
Colours: White / Silver / Gold with Black push button
KKO-2001 (White) - 64090
KKO-2001-S (Silver/Black) - 64094
KKO-2001-G (Gold/Black) - 64091

KKO-L SERIES



Surface mounted plastic weatherproof door chime push button - with LED illumination.
Colour: White / Silver / Gold
KKO-L-2001 (White) - 64070
KKO-L-2001-S (Silver) - 64074
KKO-L-2001-G (Gold) - 64071

KKO-2005 SERIES



Low cost surface mounted door chime push button .
Colours: White and Black with White Button
KKO-2005 (Black) - 64035
KKO-2005W (White) - 64036

GT50810



Bell Transformer with Fail-safe. 230VAC input with 8VAC (1.0A) output. 2 Modules wide.
GT50810 - 14207

DOOR CHIME ACCESSORIES

GT1965



Bell transformer with fail safe. 230VAC input with 8VAC (2.0A) output. 2 Modules wide
GT1965 - 14102

GT36AP



Surface mounted installation kit for GT50810 and GT1965 safety transformers
GT36AP - 14936

WIRELESS DOOR CHIMES

ECHO-M-SW



Wireless HiFi Chime with brilliant sound quality where you can play your own sounds. Transmitter range is 500 meters. Complete with optical signalisation and software. Sounds can be loaded with Micro-SD Card (not supplied). Supply 8/12VAC/DC or Battery.

Colour: Black/White - 43501
ECHO-M-SW

ECHO-M-WS



Wireless HiFi Chime with brilliant sound quality where you can play your own sounds. Transmitter range is 500 meters. Complete with optical signalisation and software. Sounds can be loaded with Micro-SD Card (not supplied). Supply 8/12VAC/DC or Battery.

Colour: White - 43502
ECHO-M-WS

MISTRAL TRANSMITTER PUSH BUTTON - IP54



Transmitter push button for all Mistral Chimes with a 500m range (IP54).

Colour: white and anthracite/silver

Mistral-SE-03 (white) - 43441

Mistral-SE-03.1s (anthracite/silver) - 43440

WIRELESS DOOR CHIMES

MISTRAL MOVEMENT DETECTOR TRANSMITTER



Movement detector transmitter suitable for Mistral Chimes with a 500m transmission range. Maximum monitoring range is 108° at 15m. For indoor use only.

Mistral-BM03.1 - 43445

MISTRAL-300M



Wireless door chime set with a range of 500m or expandable with distance booster option. Includes 17 melodies and LED flash indicator. Transmitter push button is waterproof (IP54) - 43300

MISTRAL-300M

MISTRAL-200M



Wireless door chime set with a range of 500m (not expandable, without distance booster option). Includes 17 melodies without indicator. Transmitter push button is waterproof (IP54) - 43305

MISTRAL-200M

MISTRAL-300E



Wireless door chime without transmitter push button. Includes 17 melodies and LED flash indicator - 43301

MISTRAL-300E

MISTRAL-300M-BM



Wireless chime set with a range of 500m or expandable with distance booster option. Includes 17 melodies and LED flash indicator. Push button not included - instead a movement detector with a maximum monitoring range of 108° at 15m is supplied to trigger the chime. Indoor use only - 43315

MISTRAL 300M-BM

WIRELESS DOOR CHIMES

TECHNICAL INFORMATION

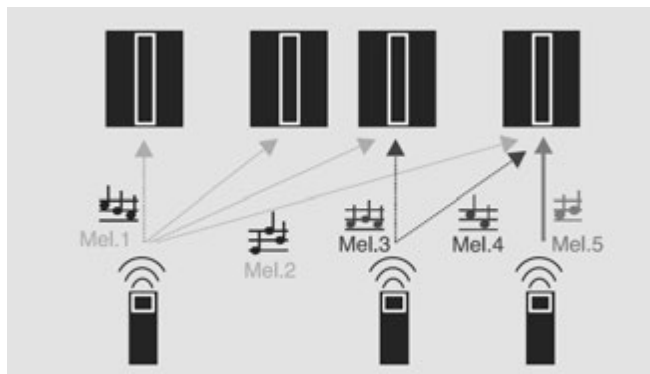
1. CENTRAL PAGING



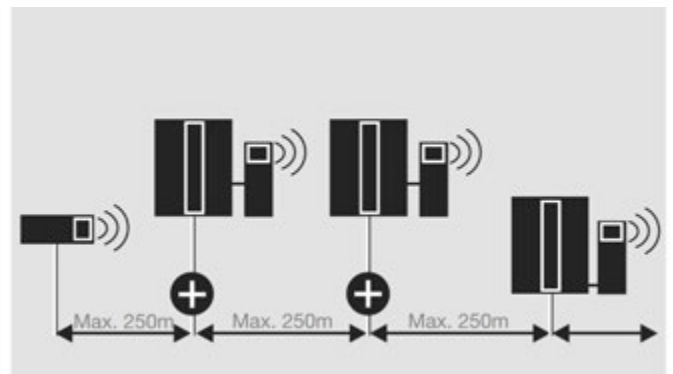
2. INDIVIDUAL PAGING



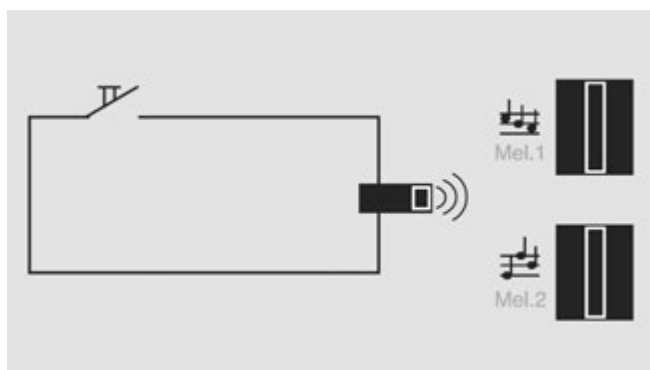
3. MATRIX PAGING



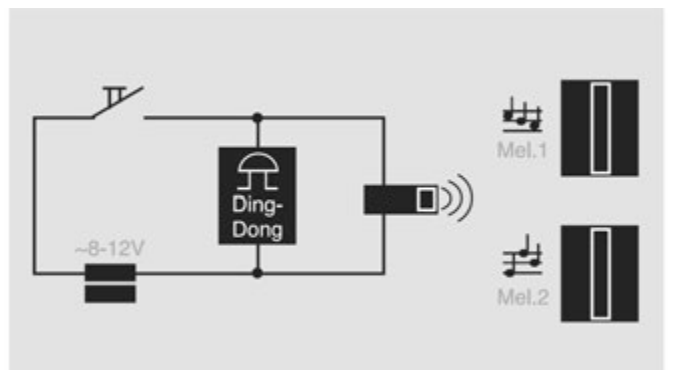
4. CALL FORWARD DRY CONTACT



5. DISTANCE BOOSTER



6. CALL FORWARDING



HENSEL

Founded in 1931, Hensel represents a company group which is active worldwide and specialises in the manufacture of innovative electrical installation and power distribution systems for facility equipment of buildings. They have an extensive range of leading products, including waterproof and fire rated cable junction boxes, enclosures, distribution boards and switchboards.

ENCLOSURES WITH HINGED LID

TECHNICAL INFORMATION

KG WATERPROOF ENCLOSURE RANGE

This very versatile and cost effective enclosure range has many advantages. The KG range has a high impact base and cover, pre-moulded knockouts and can be used with a separately supplied gear plate. The cover is removable and along with the low side walls access to equipment and wiring is easy.

The KG product range can also be supplied as a complete distribution board with protection cover, mounting rail, earth/neutral bars and legend kit.



IP65 WATERPROOF ENCLOSURE WITH HINGED LID

	KG9001	Waterproof Empty Enclosure with Hinged Lid (253x136x115mm) - IP65
	KG9002	Waterproof Empty Enclosure with Hinged Lid (253x168x115mm) - IP65
	KG9003	Waterproof Empty Enclosure with Hinged Lid (253x217x115mm) - IP65
	KG9001IN	Waterproof Empty Enclosure with Grey Hinged Lid (253x136x115mm) - IP65
	KG9002IN	Waterproof Empty Enclosure with Grey Hinged Lid (253x168x115mm) - IP65
	KG9003IN	Waterproof Empty Enclosure with Grey Hinged Lid (253x217x115mm) - IP65
	KG901C	4.5 Way Distribution Board including Earth & Neutral Bars - IP65
	KG902C	6 Way Distribution Board including Earth & Neutral Bars - IP65
	KG903C	9 Way Distribution Board including Earth & Neutral Bars - IP65
	KGMP01	Mounting Plate for KG9001
	KGMP02	Mounting Plate for KG9002
	KGMP03	Mounting Plate for KG9003
	KGTS01	Din Rail for KG9001
	KGTS02	Din Rail for KG9002
	KGTS03	Din Rail for KG9003
	KGPC01	Protection Cover for KG9001
	KGPC02	Protection Cover for KG9002
	KGPC03	Protection Cover for KG9003
	KGPN01	Earth and Neutral Bar for KG9001
	KGPN02	Earth and Neutral Bar for KG9002
	KGPN03	Earth and Neutral Bar for KG9003
	3310167	KG901C Distribution Board MCB Identification Set
	3310168	KG902C Distribution Board MCB Identification Set
	3310169	KG903C Distribution Board MCB Identification Set
	AVS-16	Connection Gland - IP65
	EVS-16	Connection Gland - IP54

WATERPROOF DISTRIBUTION BOARDS

TECHNICAL INFORMATION



KV9354



Multiple enclosure fixing points - can be fixed to pillars



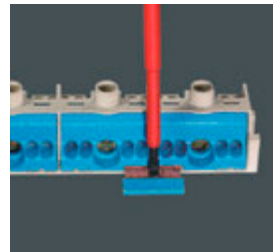
More space for wiring, convenient access to the wiring due to low walls



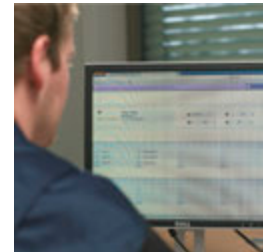
Perfect installation solution for cable trunking



IP65 Cable entry with elastic membrane glands



Neutral separable for various potentials via plug-in jumper



Editable circuit identification template at www.hensel-electric.de

IP65 DISTRIBUTION BOARDS WITH ELASTIC MEMBRANE GLANDS & E/N BARS



KV9103 3 Way Distribution Board including Earth & Neutral Bars



KV9104 4.5 Way Distribution Board including Earth & Neutral Bars



KV9106 6 Way Distribution Board including Earth & Neutral Bars

KV9109 9 Way Distribution Board including Earth & Neutral Bars

KV9112 12 Way, 1 Row Distribution Board including Earth & Neutral Bars

KV9118 18 Way, 1 Row Distribution Board including Earth & Neutral Bars

KV9224 24 Way, 2 Row Distribution Board including Earth & Neutral Bars

KV9236 36 Way, 2 Row Distribution Board including Earth & Neutral Bars




KV9336 36 Way, 3 Row Distribution Board including Earth & Neutral Bars

KV9448 48 Way, 4 Row Distribution Board including Earth & Neutral Bars



KV9354 54 Way, 3 Row Distribution Board including Earth & Neutral Bars

WATERPROOF DISTRIBUTION BOARDS



IP65 DISTRIBUTION BOARDS WITH ELASTIC MEMBRANE GLANDS WITHOUT E/N BARS

	KV8103	3 Way MCB Enclosure without Earth & Neutral Bars
	KV8104	4.5 Way MCB Enclosures without Earth & Neutral Bars
	KV8106	6 Way MCB Enclosures without Earth & Neutral Bars
	KV8109	9 Way MCB Enclosures without Earth & Neutral Bars
	KV8112	12 Way, 1 Row MCB Enclosure without Earth & Neutral Bars
	KV8118	18 Way, 1 Row MCB Enclosure without Earth & Neutral Bars
	KV8224	24 Way, 2 Row MCB Enclosure without Earth & Neutral Bars
	KV8236	36 Way, 2 Row MCB Enclosure without Earth & Neutral Bars
	KV8336	36 Way, 2 Row MCB Enclosure without Earth & Neutral Bars
	KV8448	48 Way, 4 Row MCB Enclosure without Earth & Neutral Bars
	KV8354	54 Way, 3 Row MCB Enclosure without Earth & Neutral Bars

IP65 DISTRIBUTION BOARDS WITH METRIC PRE-MOULDED KNOCK-OUTS WITH E/N BARS

	KV7103	3 Way Distribution Board including Earth & Neutral Bars
	KV7104	4.5 Way Distribution Board including Earth & Neutral Bars
	KV7106	6 Way Distribution Board including Earth & Neutral Bars
	KV7109	9 Way Distribution Board including Earth & Neutral Bars
	KV9112M	12 Way, 1 Row Distribution Board including Earth & Neutral Bars
	KV9118M	18 Way, 1 Row Distribution Board including Earth & Neutral Bars
	KV9224M	24 Way, 2 Row Distribution Board including Earth & Neutral Bars
	KV9236M	36 Way, 2 Row Distribution Board including Earth & Neutral Bars
	KV9336M	36 Way, 3 Row Distribution Board including Earth & Neutral Bars
	KV9448M	48 Way, 4 Row Distribution Board including Earth & Neutral Bars
	KV9354M	54 Way, 3 Row Distribution Board including Earth & Neutral Bars

IP65 DISTRIBUTION BOARDS WITH METRIC PRE-MOULDED KNOCK-OUTS WITHOUT E/N BARS

	KV6103	3 Way MCB Enclosure without Earth & Neutral Bars
	KV6104	4.5 Way MCB Enclosures without Earth & Neutral Bars
	KV6106	6 Way MCB Enclosures without Earth & Neutral Bars
	KV6109	9 Way MCB Enclosures without Earth & Neutral Bars
	KV8112M	12 Way, 1 Row MCB Enclosure without Earth & Neutral Bars
	KV8118M	18 Way, 1 Row MCB Enclosure without Earth & Neutral Bars
	KV8224M	24 Way, 2 Row MCB Enclosure without Earth & Neutral Bars
	KV8236M	36 Way, 2 Row MCB Enclosure without Earth & Neutral Bars
	KV8336M	36 Way, 3 Row MCB Enclosure without Earth & Neutral Bars
	KV8448M	48 Way, 4 Row MCB Enclosure without Earth & Neutral Bars
	KV8354M	54 Way, 3 Row MCB Enclosure without Earth & Neutral Bars



Order Code in Bold: Stocked Item
Order Code in light: Subject to availability

WATERPROOF DISTRIBUTION BOARDS



COMPLETE SWITCHBOARD SOLUTION

Simply join your KV Distribution Board to the KV9331 Enclosure for a complete Switchboard solution.

The KV9331 comes complete with gear tray and can be joined using the AVS-16 Connection Gland for IP65 protection.

IP65 WATERPROOF ENCLOSURE



- KV9331** Waterproof Empty Enclosure (583x295x182mm) with Elastic Membrane Glands
- KV9331M** Waterproof Empty Enclosure (583x295x182mm) with Metric Knock-out Entries

KV DISTRIBUTION BOARD EARTH AND NEUTRAL BARS



- KVFC03** Fixconnect Earth and Neutral Bar set suitable for KV9103 to KV6103

- KVFC04** Fixconnect Earth and Neutral Bar set suitable for KV9104 to KV6104

- KVFC06** Fixconnect Earth and Neutral Bar set suitable for KV9106 to KV6106



- KVFC09** Fixconnect Earth and Neutral Bar set suitable for KV9109 to KV6109

- KVFC12** Fixconnect Earth and Neutral Bars for KV9112/M, KV8112M, KV9220/M

- KVFC18** Fixconnect Earth and Neutral Bars for KV9118/M, KV8118/M, KV9230/M



- KVFC24** Fixconnect for KV9224/M, KV9330/M, KV9440/M, KV9336/M, KV9448/M

- KVFC36** Fixconnect for KV9236/M, KV9354/M, KV9350/M

KV DISTRIBUTION BOARD ACCESSORIES



- AVS-16** Connection Gland IP65

- EVS-16** Connection Gland IP54

- KVES1** Lock set for KV Boards 12 - 54 Way

- KVES3** Lock set for KV Boards 3 - 9 Way

- KVES2** Spare keys for KVES1 & KVES3

- AS-12** Cover Strip - 12 Way

- AS-18** Cover Strip - 18 Way



- KVEB12** Cable Entry Cover for 12 Way KV Switchboards

- KVEB18** Cable Entry Cover for 18 Way KV Switchboards

- KVEB03** Cable Entry Cover for 3 Way KV Switchboards

- KVEB04** Cable Entry Cover for 4 Way KV Switchboards



- KVEB06** Cable Entry Cover for 6 Way KV Switchboards

- KVEB09** Cable Entry Cover for 9 Way KV Switchboards

- KV-PM** Metric flange plate for KV switchboards

- KVPL 2** KV Switchboard Sealing Device - 12 to 54 way

- KVPL 3** KV Switchboard Sealing Device - 3 to 9 way

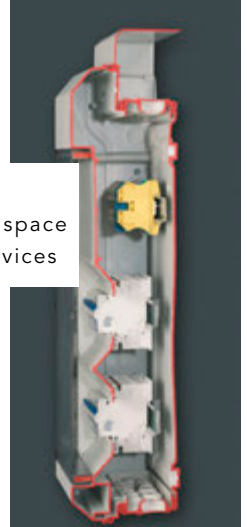
WATERPROOF "EXTRA" BOARDS

TECHNICAL INFORMATION



KV EXTRA

With additional space for electrical devices



WATERPROOF "EXTRA" DISTRIBUTION BOARDS



KV9220 12 Way, 2 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV9230 18 Way, 2 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV9330 24 Way, 3 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV9440 36 Way, 4 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV9350 36 Way, 3 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space



KV9220M 12 Way, 2 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV9230M 18 Way, 2 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV9330M 24 Way, 3 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV9440M 36 Way, 4 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV9350M 36 Way, 3 Row MCB Enclosure without Earth & Neutral Bars - with EXTRA space

KV Distribution Boards have IP65 Integrated Cable Glands - Boards with "...M" have Metric Knock-Outs



WATERPROOF DISTRIBUTION BOARDS

IP65 ENYSUN WEATHERPROOF BOARDS - NO E/N BARS - PLAIN SIDES



- KVPC8104** Ensun Polycarbonate 4.5 Way Distribution Board
- KVPC8109** Ensun Polycarbonate 9 Way Distribution Board

IP65 ENYSUN WEATHERPROOF BOARDS - WITH E/N BARS - METRIC KNOCKOUTS



- KVPC9103** Ensun Polycarbonate 3 Way Distribution Board
- KVPC9104** Ensun Polycarbonate 4.5 Way Distribution Board
- KVPC9106** Ensun Polycarbonate 6 Way Distribution Board
- KVPC9109** Ensun Polycarbonate 9 Way Distribution Board
- KVPC9112** Ensun Polycarbonate 12 Way Distribution Board

SAFETY CIRCUITS - IP66 CABLE JUNCTION BOXES & ENCLOSURES



- KVBP04** Ensun Outdoor Mounting Plate for KVPC8104 - Stainless Steel
- KVBP09** Ensun Outdoor Mounting Plate for KVPC8109 - Stainless Steel





ENYSUN - SOLAR POWER SOLUTIONS

TECHNICAL INFORMATION



SOLAR SOLUTIONS FROM HENSEL

Hensel's Enysun product solutions provide a number of advantages when installing photo voltaic systems. The distributors are prefabricated making them quick and easy to connect. The PV generator junction boxes and PV Solar inverter collectors are equipped with busbars, surge protection devices and terminal, so that all you have to do is connect them on site. This saves you both time and costs in your installation. The total solution is highly UV Stable.



ENYSUN PRODUCT RANGE

Junction Boxes



KF PV 0100

KF PV 0700

Isolator Enclosure



KV PV 2411

Solar inverter Collector solutions



Mi PV 6544

Battery Distributors



Mi PV 3302



Ask for a copy of our complete ENYSUN catalogue



Order Code in Bold: Stocked Item
Order Code in light: Subject to availability

MI SWITCHBOARD SYSTEM

TECHNICAL INFORMATION



WATERPROOF INDUSTRIAL SWITCHBOARDS

The Mi Industrial Switchboard System is an easy to construct, versatile complete Control and Distribution Board product. Individual Mi enclosures can be joined like building blocks using the MiWD2 Joining Kit. This can be achieved very quickly and easily. When joining Mi enclosures the IP65 waterproof and dust-tight rating is completely maintained. Many different accessories and specialised parts mean that many different applications can be well catered for. The entire system is highly **UV stable**.

JOINING MI COMPONENTS

Individual Mi Components can be joined quickly using the MiWD2 Joining Kit. This can be achieved very quickly and easily.

The Mi Series IP65 Waterproof and Dust-tight rating is completely maintained.



IP65 ENCLOSURES WITH UV TINTED LID



Mi0100 Enclosure with tinted lid - 150 x 300 x 170 mm

Mi0200 Enclosure with tinted lid - 300 x 300 x 170 mm

Mi0210 Enclosure with tinted lid - 300 x 300 x 214 mm

Mi0300 Enclosure with tinted lid - 300 x 300 x 170 mm

Mi0310 Enclosure with tinted lid - 450 x 300 x 214 mm

Mi0400 Enclosure with tinted lid - 600 x 300 x 170 mm

Mi0410 Enclosure with tinted lid - 600 x 300 x 214 mm

Mi0600 Enclosure with tinted lid - 600 x 450 x 170 mm

Mi0800 Enclosure with tinted lid - 600 x 600 x 170 mm



Please allow for assembly time for some Hensel Mi Solutions

MI SWITCHBOARD SYSTEM

IP65 ENCLOSURES WITH TRANSPARENT LID



Mi0260	Enclosure with transparent lid - 300 x 300 x 214 mm
Mi0350	Enclosure with transparent lid - 300 x 300 x 170 mm
Mi0360	Enclosure with transparent lid - 450 x 300 x 214 mm
Mi0450	Enclosure with transparent lid - 600 x 300 x 170 mm
Mi0460	Enclosure with transparent lid - 600 x 300 x 214 mm
Mi0650	Enclosure with transparent lid - 600 x 450 x 170 mm

IP65 ENCLOSURES WITH GREY LID



Mi0101	Enclosure with grey lid - 150 x 300 x 170 mm
Mi0201	Enclosure with grey lid - 300 x 300 x 170 mm
Mi0211	Enclosure with grey lid - 300 x 300 x 214 mm
Mi0301	Enclosure with grey lid - 450 x 300 x 170 mm
Mi0311	Enclosure with grey lid - 450 x 300 x 214 mm
Mi0401	Enclosure with grey lid - 600 x 300 x 170 mm
Mi0411	Enclosure with grey lid - 600 x 300 x 214 mm
Mi0601	Enclosure with grey lid - 600 x 450 x 170 mm
Mi0801	Enclosure with grey lid - 600 x 600 x 170 mm

IP65 ENCLOSURES WITH INTEGRATED HINGED LID



Mi0220	Enclosure with transparent hinged lid - 300 x 300 x 182 mm
Mi0221	Enclosure with grey hinged lid - 300 x 300 x 182 mm

IP65 ENCLOSURES WITH FITTED EXTERNAL HINGE - UV TINTED LID



Mi9100	Enclosure with transparent lid - 150 x 300 x 170 mm with external hinge
Mi9200	Enclosure with transparent lid - 300 x 300 x 170 mm with external hinge
Mi9210	Enclosure with transparent lid - 300 x 300 x 214 mm with external hinge
Mi9300	Enclosure with transparent lid - 450 x 300 x 170 mm with external hinge
Mi9310	Enclosure with transparent lid - 450 x 300 x 214 mm with external hinge
Mi9400	Enclosure with transparent lid - 600 x 300 x 170 mm with external hinge
Mi9410	Enclosure with transparent lid - 600 x 300 x 214 mm with external hinge

IP65 ENCLOSURES WITH FITTED EXTERNAL HINGE - GREY LID



Mi9101	Enclosure with grey lid - 150 x 300 x 170 mm with external hinge
Mi9201	Enclosure with grey lid - 300 x 300 x 170 mm with external hinge
Mi9211	Enclosure with grey lid - 300 x 300 x 214 mm with external hinge
Mi0301	Enclosure with grey lid - 450 x 300 x 170 mm with external hinge
Mi9311	Enclosure with grey lid - 450 x 300 x 214 mm with external hinge
Mi9401	Enclosure with grey lid - 600 x 300 x 170 mm with external hinge
Mi9411	Enclosure with grey lid - 600 x 300 x 214 mm with external hinge

MI SWITCHBOARD SYSTEM

IP65 FIXED LID CIRCUIT BREAKER ENCLOSURES WITHOUT E/N BARS



- Mi1115 12 Module MCB Box with fixed lid - E&N bars not supplied - 150x300x170mm
- Mi1225 24 Module MCB Box with fixed lid - E&N bars not supplied - 300x300x170mm
- Mi1335 36 Module MCB Box with fixed lid - E&N bars not supplied - 450x300x170mm
- Mi1447 48 Module MCB Box with fixed lid - E&N bars not supplied - 600x300x170mm
- Mi1440 36 Module MCB Box, fixed lid, additional DIN Rail, no E&N bars - 600x300x170mm
- Mi1885 84 Module MCB BOX with fixed lid - E&N bars not supplied - 600x600x170mm

Earth/Neutral Bar options below

IP65 HINGED FLAP CIRCUIT BREAKER ENCLOSURES WITHOUT E/N BARS



- Mi1117 12 Module MCB Box with 1 hinged flap - E&N bars not supplied - 150x300x185mm
- Mi1227 24 Module MCB Box with 2 hinged flaps - E&N bars not supplied - 300x300x185mm
- Mi1337 36 Module MCB Box with 3 hinged flaps - E&N bars not supplied - 450x300x184mm
- Mi1445 48 Module MCB Box with 4 hinged flaps - E&N bars not supplied - 600x300x185mm
- Mi1443 36 Module MCB Box, 3 hinged flaps, additional DIN Rail, no E&N - 600x300x185mm

Earth/Neutral Bar options below

IP65 HINGED LID CIRCUIT BREAKER ENCLOSURE WITHOUT E/N BARS



- Mi1226 24 Module MCB Box with hinged lid - E&N bars not supplied - 300x300x170mm

Earth/Neutral Bar options below

FIXCONNECT EARTH AND NEUTRAL BARS



- FCPN10 Earth & Neutral Bar for 6 way Mi Circuit Breaker Enclosure - DIN Rail Mounted

- FCPN30 Earth & Neutral Bar for 12 and 24 way Mi Circuit Breaker Enclosures



- FCPN60 Earth & Neutral Bar for 36 and 48 way Mi Circuit Breaker Enclosures

- FCN10 Neutral Bar for 12 way Mi Circuit Breaker Enclosures - DIN Rail Mounted

- FCN30 Neutral Bar for 36 and 48 way Mi Circuit Breaker Enclosures



- FCPE10 Earth Bar for 12 way Mi Circuit Breaker Enclosures - DIN Rail Mounted

- FCPE30 Earth Bar for 36 and 48 way Mi Circuit Breaker Enclosures

- FCBS5 Fixconnect labelling system for FCN10, FCPE10 & FCPN10 (set of 5)

MI SWITCHBOARD SYSTEM

IP65 KWHR METER BOXES



Mi2300	KWHR Meter Box with meter support and fixing screws - 450x300x170mm
Mi2310	KWHR Meter Box with meter support and fixing screws - 450x300x214mm
Mi2400	KWHR Meter Box with additional DIN rail - 600x300x170mm
Mi2410	KWHR Meter Box with additional DIN rail - 600x300x214mm
Mi2800	KWHR Meter Box suitable for 3 meters with additional DIN rail - 600x600x170mm

EXTENSION FRAMES



MiZR4	Extension Frame for Mi 0400, Mi 0401, Mi 0410 & Mi 04011 - 85mm extension
MiZR8	Extension Frame for Mi 0800 & Mi 0801 - 85 mm extension

JOINING KITS AND ACCESSORIES



MiWD2 Wall Gasket Joining Kit

MiWT1 Wall Separator Joining Kit

MiZS20 Hinge Kit - light duty



MiZS30 Hinge Kit - special fitting required

MiZS40 Heavy Duty Hinge Kit for all enclosure sizes *



MiZS60 Heavy Duty Hinge Kit for enclosures with extension frames Mi ZR4 or Mi ZR8 *

AS-12 MCB Cover Strip - 12 way



MiAL40 External Mounting Brackets



MiSN4 Hand Operator Set of 4

MiPL2 Sealing Cap Part Set

MiZS11 Lid lock set type 1

MiZS12 Lid lock set type 2

MiBZ11 Flat headed screw 11mm long

MiBZ13 Flat headed screw 13mm long

**Note: Wall Connectors or Flange Plates are necessary for assembly*

HINGED FLAPS



MiKL6 Mi Hinged Flap Kit - 6 modules wide

MiKL12 Mi Hinged Flap Kit - 12 modules wide

MiBS6 Protection Cover for the MiKL6

MiBS12 Protection Cover for the MiKL12



MiSK01 Hinged Flap Lock - suitable for both MiKL12 & MiKL6 Products

NZKL54 Mi Hinged Flap Kit - large version

MI SWITCHBOARD SYSTEM

TECHNICAL INFORMATION



MI PROTECTION COVERS

The Mi System Protection Covers are fixed behind enclosures with clear lids.

They are ideal for display product and control product that needs to have the additional IP65 protection that the clear lid provides.

COVER PLATES



MiEP91	Protection Cover for mounting of equipment in Mi0100 enclosures
MiEP92	Protection Cover for mounting of equipment in Mi0200 enclosures
MiEP93	Protection Cover for mounting of equipment in Mi0300 enclosures
MiEP94	Protection Cover for mounting of equipment in Mi0400 enclosures

PVC MOUNTING PLATES



MiMP1	Mounting Plates - 259 x 115 mm
MiMP2	Mounting Plates - 265 x 265 mm
MiMP3	Mounting Plates - 265 x 415 mm
MiMP4	Mounting Plates - 265 x 565 mm
MiMP6	Mounting Plates - 415 x 565 mm
MiMP8	Mounting Plates - 565 x 565 mm

FLANGE PLATES



MiFP15	Flange Plate - Plain - 150 x 25 mm
MiFM15	Flange Plate - with knockouts - 150 x 25 mm
MiFP20	Flange Plate - Plain - 300 x 25 mm
MiFM25	Flange Plate - with knockouts - 300 x 25 mm
MiFM32	Flange Plate - with knockouts - 300 x 25 mm
MiFM50	Flange Plate - with knockouts - 300 x 25 mm
MiFM63	Flange Plate - with knockouts - 300 x 25 mm
MiFP38	Flange Plate - IP65 Integrated Glands - 300 x 25 mm
MiFP82	Flange Plate - 70mm O/D cables - 300 x 25 mm
MiBF44	IP44 Ventilation Flange for vertical installation on Mi Boxes
MiZE62	Cable Strain Relief

MI SWITCHBOARD SYSTEM

BUSBAR SUPPORTS



MiST25 250 Amp 5 Pole Busbar support set

MiST41 400 Amp 5 Pole Busbar support set

MiST63 630 Amp 5 Pole Busbar support set



MiSS22 Hensel Mi Busbar - 12x5mm - 2400mm length

MiSS25 Hensel Mi Busbar - 12x10mm - 2400mm length

MiSS40 Hensel Mi Busbar - 20x10mm - 2400mm length

MiSS45 Hensel Mi Busbar - 25x10mm - 2400mm length

MiSS63 Hensel Mi Busbar - 30x10mm - 2400mm length

MiS0603 Locking part used only in Mi ST 63 system with 10 mm busbars

DIN RAILS



MiTS30 Din Rail - 284mm long

MiTS45 Din Rail - 434mm long

MiTS60 Din Rail - 584mm long



MiDS25 Din Rail Spacers - 25mm high

MiDS50 Din Rail Spacers - 50mm high

MI CONNECTION BOX



MiCB10 Connection Box - for installation of devices such as plugs and switches

MI CANOPY - POWDER COATED STEEL



MiDB15 Canopy for Box size 150mm with fixing wedges & seal

MiDB30 Canopy for Box size 300mm with fixing wedges & seal

MiDB01 Canopy End Plates for MiDB15 & MiDB30



ENYGUIDE:

The Enyguide configurator supports project engineering for the Mi switchboard system. This easy to use 3D design tool assists Electricians, Engineers and Electrical Wholesalers with the design of Mi Switchboards.

PRODUCT MOVIES:

On the Hensel website there are many product movies including a very informative Mi Switchboard assembly video.



CABLE JUNCTION BOXES & ENCLOSURES

IP66 CABLE JUNCTION BOXES - GREY



- DK0202G Cable Junction Box with 5 pole 4x2.5mm² Terminal Block (93x93x62mm)
- DK0402G Cable Junction Box with 5 pole 4x2.5mm² Terminal Block (104x104x70mm)
- DK0404G Cable Junction Box with 5 pole 4x4mm² Terminal Block (104x104x70mm)
- DK0604G Cable Junction Box with 5 pole 4x4mm² Terminal Block (130x130x77mm)
- DK0606G Cable Junction Box with 5 pole 4x6mm² Terminal Block (130x130x77mm)
- DK1006G Cable Junction Box with 5 pole 4x6mm² Terminal Block (180x130x77mm)
- DK1010G Cable Junction Box with 5 pole 4x10mm² Terminal Block (180x130x77mm)
- DK1610G Cable Junction Box with 5 pole 4x10mm² Terminal Block (210x155x92mm)
- DK1616G Cable Junction Box with 5 pole 4x16mm² Terminal Block (210x155x92mm)
- DK2525G Cable Junction Box with 5 pole 4x25mm² Terminal Block
- DK3535G Cable Junction Box with 5 pole 4x35mm² Terminal Block
- DK5054G Cable Junction Box with 4 pole 4x50mm² Terminal Block(355x255x112mm)
- DK5055G Cable Junction Box with 5 pole 4x50mm² Terminal Block(355x255x112mm)

IP66 ENCLOSURES - GREY



- DK0200G Cable Junction Box, Empty (93x93x62mm)
- DK0400G Cable Junction Box, Empty (104x104x70mm)
- DK0600G Cable Junction Box, Empty (130x130x77mm)
- DK1000G Cable Junction Box, Empty (180x130x77mm)
- DK1600G Cable Junction Box, Empty (210x155x92mm)
- DK2500G Cable Junction Box, Empty (255x205x112mm)
- DK3500G Cable Junction Box, Empty (295x225x122mm)
- DK5000G Cable Junction Box, Empty (355x255x112mm)

SAFETY CIRCUITS - IP66 CABLE JUNCTION BOXES & ENCLOSURES - RED LID



- DK0202R Cable Junction Box with 5 pole 4x2.5mm² Terminal Block for safety circuits
- DK0402R Cable Junction Box with 5 pole 4x2.5mm² Terminal Block for safety circuits
- DK0404R Cable Junction Box with 5 pole 4x4mm² Terminal Block for safety circuits
- DK0200R Cable Junction Box, Empty for safety circuits (93x93x62mm)
- DK0400R Cable Junction Box, Empty for safety circuits (104x104x70mm)



CABLE JUNCTION BOXES & ENCLOSURES

IP66 CABLE JUNCTION BOXES WITH CONTA-CLIP TERMINALS - GREY



RK0203T	Cable Junction Box with 3 Conta-Clip BKA2.5 Terminals fitted
RK0205T	Cable Junction Box with 5 Conta-Clip BKA2.5 Terminals fitted
RK0207T	Cable Junction Box with 7 Conta-Clip BKA2.5 Terminals fitted
RK0405T	Cable Junction Box with 5 Conta-Clip BKA4 Terminals fitted
RK0610T	Cable Junction Box with 10 Conta-Clip SRK4/2A Terminals fitted
RK0612T	Cable Junction Box with 12 Conta-Clip SRK4/2A Terminals fitted
RK0614T	Cable Junction Box with 14 Conta-Clip SRK4/2A Terminals fitted
RK1019T	Cable Junction Box with 19 Conta-Clip SRK4/2A Terminals fitted
RK1024T	Cable Junction Box with 24 Conta-Clip SRK4/2A Terminals fitted

IP54 CABLE JUNCTION BOXES & ENCLOSURES - GREY



DE9325	Cable Junction Box with 5 Pole 4x2.5mm Terminals (88x88x47mm)
DE9345	Cable Junction Box with 5 Pole 4x4mm Terminals (98x98x52mm)
DE9320	Cable Junction Box, Empty (88x88x47mm)
DE9340	Cable Junction Box, Empty (98x98x52mm)

IP65 ENCLOSURES - BLANK SIDES



K0100	Polycarbonate Enclosure, Clear Lid, Empty (300x150x170mm)
K0101	Polycarbonate Enclosure, Grey Lid, Empty (300x150x170mm)
K0200	Polycarbonate Enclosure, Clear Lid, Empty (300x300x170mm)
K0201	Polycarbonate Enclosure, Grey Lid, Empty (300x300x170mm)
K0300	Polycarbonate Enclosure, Clear Lid, Empty (450x300x170mm)
K0301	Polycarbonate Enclosure, Grey Lid, Empty (450x300x170mm)
K0400	Polycarbonate Enclosure, Clear Lid, Empty (600x300x170mm)
K0401	Polycarbonate Enclosure, Grey Lid, Empty (600x300x170mm)

CABLE JUNCTION BOXES & ENCLOSURES

CABLE JUNCTION BOX DIN RAIL KITS



DKTS02	Cable Junction Box DIN Rail set for Enclosures DK02... and KF02...
DKTS04	Cable Junction Box DIN Rail set for Enclosures DK04... and KF04...
DKTS06	Cable Junction Box DIN Rail set for Enclosures DK06... and KF06...
DKTS10	Cable Junction Box DIN Rail set for Enclosures DK10... and KF10...
DKTS16	Cable Junction Box DIN Rail set for Enclosures DK16... and KF16...
DKTS25	Cable Junction Box DIN Rail set for Enclosures DK25... and KF25...
DKTS35	Cable Junction Box DIN Rail set for Enclosures DK35... and KF35...
DKTS50	Cable Junction Box DIN Rail set for Enclosures DK50... and KF50...

CABLE JUNCTION BOX TERMINAL PARTS



DKKL02	Cable Junction Box Terminal - 1.5-4mm ²
DKKH02	Cable Junction Box Support for Terminal DKKL02



DKKL04	Cable Junction Box Terminal - 1.5-6mm ²
DKKH04	Cable Junction Box Support for Terminal DKKL04



DKKL06	Cable Junction Box Terminal - 1.5-10mm ²
DKKH06	Cable Junction Box Support for Terminal DKKL06
DKKS10	Cable Junction Box Terminal Set - 5 Pole - 2.5-16mm ² Twin Terminals
DKKS16	Cable Junction Box Terminal Set - 5 Pole - 6-25mm ² Twin Terminals
DKKS25	Cable Junction Box Terminal Set - 5 Pole - 6-35mm ² Twin Terminals
DKKS35	Cable Junction Box Terminal Set - 5 Pole - 16-35mm ² Twin Terminals
DKKS50	Cable Junction Box Terminal Set- 5 Pole - 16-50mm ² Twin Terminals
DKL-04	Cable Junction Box Terminal 34 Amp 5 Pole Terminal

CABLE JUNCTION BOX REAR WALL SEALS



LDM25B	Cable Junction Box Cable Seal for rear wall - M25 - Black
LDM25G	Cable Junction Box Cable Seal for rear wall - M25 - Grey
LDM32B	Cable Junction Box Cable Seal for rear wall - M32 - Grey
LDM32G	Cable Junction Box Cable Seal for rear wall - M32 - Black

CABLE JUNCTION BOX LABELLING



DKBZ5	Cable Junction Box Labelling Set - 5 pieces
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WEATHERPROOF UV STABLE ENCLOSURES

IP67 CABLE JUNCTION BOXES - GREY & WITH KNOCKOUTS



KF0202G	Cable Junction Box with 5 pole 4x2.5mm ² Terminal Block (93x93x62mm)
KF0402G	Cable Junction Box with 5 pole 4x2.5mm ² Terminal Block (104x104x70mm)
KF0404G	Cable Junction Box with 5 pole 4x4mm ² Terminal Block (104x104x70mm)
KF0604G	Cable Junction Box with 5 pole 4x4mm ² Terminal Block (130x130x77mm)
KF0606G	Cable Junction Box with 5 pole 4x6mm ² Terminal Block (130x130x77mm)
KF1006G	Cable Junction Box with 5 pole 4x6mm ² Terminal Block (180x130x77mm)
KF1010G	Cable Junction Box with 5 pole 4x10mm ² Terminal Block (180x130x77mm)
KF1610G	Cable Junction Box with 5 pole 4x10mm ² Terminal Block (210x155x92mm)
KF1616G	Cable Junction Box with 5 pole 4x16mm ² Terminal Block (210x155x92mm)
KF2525G	Cable Junction Box with 5 pole 4x25mm ² Terminal Block (255x205x112mm)
KF3535G	Cable Junction Box with 5 pole 4x35mm ² Terminal Block (295x225x122mm)
KF5055G	Cable Junction Box with 5 pole 4x50mm ² Terminal Block (355x255x122mm)

IP67 ENCLOSURES - GREY & WITH KNOCKOUTS



KF0200G	Cable Junction Box Empty (93x93x62mm)
KF0400G	Cable Junction Box Empty (104x104x70mm)
KF0600G	Cable Junction Box Empty (130x130x77mm)
KF1000G	Cable Junction Box Empty (130x130x77mm)
KF1600G	Cable Junction Box Empty (210x155x92mm)
KF2500G	Cable Junction Box Empty (255x205x112mm)
KF3500G	Cable Junction Box Empty (295x225x122mm)
KF5000G	Cable Junction Box Empty (355x255x122mm)

IP67 CABLE JUNCTION BOXES - BLACK & WITH KNOCKOUTS



KF0202B	Cable Junction Box with 5 pole 4x2.5mm ² Terminal Block (93x93x62mm)
KF0402B	Cable Junction Box with 5 pole 4x2.5mm ² Terminal Block (104x104x70mm)
KF0404B	Cable Junction Box with 5 pole 4x4mm ² Terminal Block (104x104x70mm)
KF0604B	Cable Junction Box with 5 pole 4x4mm ² Terminal Block (130x130x77mm)
KF0606B	Cable Junction Box with 5 pole 4x6mm ² Terminal Block (130x130x77mm)
KF1006B	Cable Junction Box with 5 pole 4x6mm ² Terminal Block (180x130x77mm)
KF1010B	Cable Junction Box with 5 pole 4x10mm ² Terminal Block (180x130x77mm)
KF1610B	Cable Junction Box with 5 pole 4x10mm ² Terminal Block (210x155x92mm)
KF1616B	Cable Junction Box with 5 pole 4x16mm ² Terminal Block (210x155x92mm)
KF2525B	Cable Junction Box with 5 pole 4x25mm ² Terminal Block
KF3535B	Cable Junction Box with 5 pole 4x35mm ² Terminal Block
KF5055B	Cable Junction Box with 5 pole 4x50mm ² Terminal Block

WEATHERPROOF UV STABLE ENCLOSURES

IP67 ENCLOSURES - BLACK & WITH KNOCKOUTS



KF0200B	Cable Junction Box Empty (93x93x62mm)
KF0400B	Cable Junction Box Empty (104x104x70mm)
KF0600B	Cable Junction Box Empty (130x130x77mm)
KF1000B	Cable Junction Box Empty (130x130x77mm)
KF1600B	Cable Junction Box Empty (210x155x92mm)
KF2500B	Cable Junction Box Empty (255x205x112mm)
KF3500B	Cable Junction Box Empty (295x225x122mm)
KF5000B	Cable Junction Box Empty (355x255x122mm)

IP67 ENCLOSURES - GREY & WITH PLAIN SIDES



KF0200H	Cable Junction Box Empty (93x93x62mm)
KF0400H	Cable Junction Box Empty (104x104x70mm)
KF0600H	Cable Junction Box Empty (130x130x77mm)
KF1000H	Cable Junction Box Empty (130x130x77mm)
KF1600H	Cable Junction Box Empty (210x155x92mm)
KF2500H	Cable Junction Box Empty (255x205x112mm)
KF3500H	Cable Junction Box Empty (295x225x122mm)
KF5000H	Cable Junction Box Empty (355x255x122mm)

IP67 ENCLOSURES - BLACK & WITH PLAIN SIDES



KF0200C	Cable Junction Box Empty (93x93x62mm)
KF0400C	Cable Junction Box Empty (104x104x70mm)
KF0600C	Cable Junction Box Empty (130x130x77mm)
KF1000C	Cable Junction Box Empty (130x130x77mm)
KF1600C	Cable Junction Box Empty (210x155x92mm)
KF2500C	Cable Junction Box Empty (255x205x112mm)
KF3500C	Cable Junction Box Empty (295x225x122mm)
KF5000C	Cable Junction Box Empty (355x255x122mm)

CABLE ENTRY

IP55 CABLE ENTRY



ESM16 Hensel Press-in Gland IP55-M16

ESM20 Hensel Press-in Gland IP55-M20

ESM25 Hensel Press-in Gland IP55-M25

ESM32 Hensel Press-in Gland IP55-M32

ESM40 Hensel Press-in Gland IP55-M40



STM16 Hensel Press-in Stepped Gland, IP55-M16

STM20 Hensel Press-in Stepped Gland, IP55-M20

STM25 Hensel Press-in Stepped Gland, IP55-M25

STM32 Hensel Press-in Stepped Gland, IP55-M32

STM40 Hensel Press-in Stepped Gland, IP55-M40

EVS-16 Connection Gland IP54 - Suitable for Joining two Enclosures together

IP65 CABLE ENTRY



EDK16 Hensel Press-in Gland, IP65-M16

EDK20 Hensel Press-in Gland, IP65-M20

EDK25 Hensel Press-in Gland, IP65-M25

EDK32 Hensel Press-in Gland, IP65-M32

EDK40 Hensel Press-in Gland, IP65-M40



EDR16 Hensel Press-in Conduit Adaptor, IP65-M16

EDR20 Hensel Press-in Conduit Adaptor, IP65-M20

EDR25 Hensel Press-in Conduit Adaptor, IP65-M25

EDR32 Hensel Press-in Conduit Adaptor, IP65-M32

EDR40 Hensel Press-in Conduit Adaptor, IP65-M40

AVS-16 Connection Gland IP65 - Suitable for Joining two Enclosures together

FIRE RATED GLANDS



AKMF20 Hensel Fire Rated Gland Set - Orange - M20 - IP66

AKMF25 Hensel Fire Rated Gland Set - Orange - M25 - IP66

AKMF32 Hensel Fire Rated Gland Set - Orange - M32 - IP66

AKMF40 Hensel Fire Rated Gland Set - Orange - M40 - IP66



EDKF20 Hensel Fire Rated Cable Entry Grommet - Orange - M20 - IP66

EDKF25 Hensel Fire Rated Cable Entry Grommet - Orange - M25 - IP66

EDKF32 Hensel Fire Rated Cable Entry Grommet - Orange - M32 - IP66

EDKF40 Hensel Fire Rated Cable Entry Grommet - Orange - M40 - IP66





FIRE RATED CABLE JUNCTION BOXES

TECHNICAL INFORMATION



TESTED FOR FUNCTION IN THE EVENT OF A FIRE

For essential circuits, which must remain operational for a sufficient time during exposure to fire in accordance with the international regulations and standards governing fire protection requirements for cable installations

- Degree of protection: IP66/IP65
- Material: high-grade duroplastic or powder-coated sheet steel, colour : orange, RAL 2003, halogen free
- Connecting terminal made of ceramic with resistance to high temperatures



Ask for our new Hensel Fire Resistance in Electrical Installations Guidelines for Design brochure

IP66/IP65 FIRE RATED CABLE JUNCTION BOXES



FK0402 Fire Rated Cable Junction Box & 5 pole 2.5mm² Terminal Block (104x104x70mm)

FK0404 Fire Rated Cable Junction Box & 5 pole 4mm² Terminal Block (104x104x70mm)

FK0604 Fire Rated Cable Junction Box & 5 pole 6mm² Terminal Block (130x130x77mm)

FK0606 Fire Rated Cable Junction Box & 5 pole 6mm² Terminal Block (130x130x77mm)

FK1606 Fire Rated Cable Junction Box & 5 pole 6mm² Terminal Block (210x155x92mm)



FK1608 Fire Rated Cable Junction Box & 10 pole 2.5mm² Terminal Block (210x155x92mm)

FK1610 Fire Rated Cable Junction Box & 5 pole 10mm² Terminal Block (210x155x92mm)

FK1616 Fire Rated Cable Junction Box & 5 pole 16mm² Terminal Block (210x155x92mm)

FK9025 Fire Rated Cable Junction Box & 5 pole 4mm² Terminal Block - Orange Steel

FK9105 Fire Rated Cable Junction Box & 5 pole 10mm² Terminal Block - Orange Steel

FK9255 Fire Rated Cable Junction Box & 5 pole 16mm² Terminal Block - Orange Steel

FK6505 Fire Rated Cable Junction Box & 5 pole 50mm² Terminal Block - Orange Steel - IP65

FK9259 Fire Rated Cable Junction Box & 5 pole 10mm² Terminal Block plus Fuse



FK5000 Fire Rated Communications Box without Terminals - Orange Steel - IP55

FK5110 Fire Rated Communications Box Terminal Set - LSA Technology - 10 Pairs

FK5120 Fire Rated Communications Box Terminal Set - LSA Technology - 20 Pairs

FK5210 Fire Rated Communications Box Terminal Set - Screw Connection - 10 Pairs

FK5220 Fire Rated Communications Box Terminal Set - Screw Connection - 20 Pairs

ENYSTAR MODULAR SWITCHBOARD SYSTEM

IP66 ENCLOSURES - CLEAR DOOR



- FP0101 Enclosure Size 1 - Transparent Hinged Door for Tool Operation with Side Closing Plates - 276mm W x 186mm H x 163mm D
- FP0211 Enclosure Size 2 - Transparent Hinged Door for Tool Operation with Side Closing Plates 276mm W x 366mm H x 163mm D
- FP0311 Enclosure Size 3 - Transparent Hinged Door for Tool Operation with Side Closing Plates 276mm W x 546mm H x 163mm D
- FP0401 Enclosure Size 4 - Transparent Hinged Door for Tool Operation with Side Closing Plates - 546mm W x 366 mm H x 163 mm D
- FP0411 Enclosure Size 4 - Transparent Hinged Door for Tool Operation with Side Closing Plates - 366mm W x 546 mm H x 163 mm D

IP66 ENCLOSURES - GREY DOOR



- FP0121 Enclosure Size 1 - Grey Hinged Door for Tool operation with Side Closing Plates - 276mm W x 186mm H x 163mm D
- FP0231 Enclosure Size 2 - Grey Hinged Door for Tool Operation with Side Closing Plates - 276mm W x 366mm H x 163mm D
- FP0331 Enclosure Size 3 - Grey Hinged door for Tool Operation with Side Closing Plates - 276mm W x 546mm H x 163mm D
- FP0421 Enclosure Size 4 - Grey Hinged Door for Tool Operation with Side Closing Plates - 546mm W x 366 mm H x 163 mm D
- FP0431 Enclosure Size 4 - Grey Hinged Door for Tool Operation with Side Closing Plates - 366mm W x 546 mm H x 163 mm D

IP66 ENCLOSURES - OTHER

- FP1101 12 Way 100A Switchboard without Earth & Neutral Bars without Side Closing Plates - Size 1 Enclosure
- FPCB210 Connection Box with Hinged Mounting Area for wall size 270mm - 180mm x 270mm x 158mm

IP66 CIRCUIT BREAKER ENCLOSURES WITHOUT E/N BARS



- FP1105 12 Way 63A Switchboard without Earth & Neutral Bars with Side Closing Plates - Size 1 Enclosure
- FP1215 24 Way 63A Switchboard without Earth & Neutral Bars with Side Closing Plates - Size 2 Enclosure
- FP1315 36 Way 63A Switchboard without Earth & Neutral Bars with Side Closing Plates - Size 3 Enclosure
- FP1415 51 Way 63A Switchboard without Earth & Neutral Bars with Side Closing Plates - Size 4 Enclosure

ENYSTAR E/N BARS



- FPFC24 Earth & Neutral Bar for 24 Way Enclosure
- FPFC36 Earth & Neutral Bar for 36 Way Enclosure

IP66 ISOLATORS - COMPLETE WITH ENCLOSURES



- FP5101 63 Amp 3 Pole Isolator Enclosure - Size 1 Enclosure with Transparent Hinged Door for Hand Operation
- FP5201 125 Amp 3 Pole Isolator Enclosure - Size 2 Enclosure with Transparent Hinged Door for Hand Operation
- FP5211 160 Amp 3 Pole Isolator Enclosure - Size 2 Enclosure with Transparent Hinged Door for Hand Operation
- FP5312 250 Amp 3 Pole Isolator Enclosure - Size 3 Enclosure with Transparent Hinged Door for Hand Operation



Order Code in Bold: Stocked Item
Order Code in light: Subject to availability

ENYSTAR MODULAR SWITCHBOARD SYSTEM

IP66 ENCLOSURE ACCESSORIES



- FPZR20** Extension Frame for Enclosure Size 2 - increased installation depth by 50mm
- FPZR30** Extension Frame for Enclosure Size 3 - increased installation depth of 50mm
- FPZR40** Extension Frame for Enclosure Size 4 - increased installation depth by 50mm
- FPTS27** DIN Rail for Enclosure Sizes 1,2 and 3 - 216mm
- FPTS36** DIN Rail for Enclosure Sizes 2 and 4 - 306mm
- FPTS54** DIN Rail for Enclosure Sizes 3 and 4 - 486mm
- FPDS02** DIN Rail Spacer - set of 2 Spacers, height of 29.5mm or 53.5mm

MOUNTING PLATES & PROTECTION COVERS



- FPMP10** Mounting Plate for Enclosure Size 1,2,3- 216mm W x 126mm H
- FPMP20** Mounting Plate for Enclosure Size 2,3,4 - 216mm W x 306mm H
- FPMP30** Mounting Plate for Enclosure size 3,4 - 216mm W x 486mm H
- FPMP40** Mounting Plate for Enclosure Size 3 - 486mm W x 306mm H
- FPBZ13** Fixing Screw - self tapping, 13mm
- FPAP10** Protection Cover for Enclosure Size 1 - 220mm W x 130mm H
- FPAP20** Protection Cover for Enclosure Size 2 - 220mm W x 310mm H
- FPAP30** Protection Cover for Enclosure Size 3 - 220mm W x 490mm H
- FPAP40** Protection Cover for Enclosure Size 4 - 490mm W x 310mm H

ENYSTAR CONSTRUCTION ACCESSORIES



- FPTW18** Partition Plate to segregate Enclosures - 180mm
- FPTW27** Partition Plate to segregate Enclosures - 270mm
- FPTW36** Partition Plate to segregate Enclosures - 360mm
- FPWT1** Wall Separator for connecting enclosures of different sizes
- FPVP18** Side Closing Plate with Fixing Elements - 180mm
- FPVP27** Side Closing Plate with Fixing Elements - 270mm
- FPVP36** Side Closing Plate with Fixing Elements - 360mm
- FPVM27** Metal Insert for 270mm Closing Plate for Earthing of Metal Glands
- FPVM36** Metal Insert for 360mm Closing Plate for Earthing of Metal Glands

FLANGE PLATES



- PPFG200** Flange Plate - Blank - 270mm
- PPFG222** Flange Plate - Sealing Range of 6 to 30mm O/D Cables - 270mm
- PPFM225** Flange Plate with knockouts M16 to M25 - 270mm
- PPFG273** Flange Plate - 2 x 30 to 72mm O/D Cable - 270mm
- PPFG300** Flange Plate - Blank - 360mm
- PPFG331** Flange Plate - Sealing Range of 6 to 30mm O/D Cables - 360mm

ISKRA

Iskra is a globally recognized provider of intelligent Industrial solutions and cutting-edge electromechanical products. Designed and manufactured in Slovenia, Iskra Installation contactors are particularly suitable for switching, lighting, heat pumps, air-conditioning, and similar electrical equipment, and are also suitable for switching single-phase and three-phase electric motors. They excel in silent operation and are suitable for a variety of applications.



CONTACTORS

Installation contactors are electromagnetic switching devices for switching of all kinds of electric Loads. They have one position of rest, capable of making, carrying and breaking currents under normal circuit conditions including operating overload conditions.

Latching Contactors (Bistable) switches are switching devices without power consumption in operating coil switch-on position with no hold coil consumption.

INSTALLATION CONTACTORS WITH MANUAL MOMENTARY CONTROL



IKA216-20-R(24VAC)	2 Pole 16 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts with AUTO/OFF/MANUAL Control, 24VAC Coil
IKD216-20-R(24VAC/DC)	2 Pole 16 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts with AUTO/OFF/MANUAL Control, 24VAC/DC Coil
IKA216-20-R(230VAC)	2 Pole 16 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts with AUTO/OFF/MANUAL Control, 230VAC Coil
IKA416-30-R(230VAC)	3 Pole 16 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts with AUTO/OFF/MANUAL Control, 230VAC Coil
IKA20-10-R(230VAC)	1 Pole 20 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts with AUTO/OFF/MANUAL Control, 230VAC Coil
IKA232-10-R(230VAC)	1 Pole 32 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts with AUTO/OFF/MANUAL Control, 230VAC Coil
IKA432-30-R(230VAC)	3 Pole 32 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts with AUTO/OFF/MANUAL Control, 230VAC Coil

LATCHING CONTACTORS



BI216-20(24VAC)	2 Pole 16 Amp NORMALLY OPEN Latching Relay 400VAC Contacts, 24VAC Coil
BI216-20(24VDC)	2 Pole 16 Amp NORMALLY OPEN Latching Relay 400VAC Contacts, 24VDC Coil
BI216-20(230VAC)	2 Pole 16 Amp NORMALLY OPEN Latching Relay 400VAC Contacts, 230VAC Coil

CONTACTORS

20A CONTACTORS - 2 POLE



IKA20-20(24VAC)	2 Pole 20 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC Coil
IKA20-20(230VAC)	2 Pole 20 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 230VAC Coil
IKA20-02(230VAC)	2 Pole 20 Amp NORMALLY CLOSED Modular Contactor 400VAC Contacts, 230VAC Coil
IKD20-20(24VAC/DC)	2 Pole 20 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC/DC Coil
IKD20-02(24VAC/DC)	2 Pole 20 Amp NORMALLY CLOSED Modular Contactor 400VAC Contacts, 24VAC/DC Coil

25A CONTACTORS



IKA225-11(24VAC)	2 Pole 25 Amp 1 x NORMALLY OPEN and 1 x NORMALLY CLOSED Modular Contactor 400VAC Contacts, 24VAC Coil
IKA225-11(230VAC)	2 Pole 25 Amp 1 x NORMALLY OPEN and 1 x NORMALLY CLOSED Modular Contactor 400VAC Contacts, 230VAC Coil
IKA225-20(24VAC)	2 Pole 25 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC Coil
IKA225-20(230VAC)	2 Pole 25 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 230VAC Coil
IKA225-02(230VAC)	2 Pole 25 Amp NORMALLY CLOSED Modular Contactor 400VAC Contacts, 230VAC Coil



IKA25-40(24VAC)	4 Pole 25 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC Coil
IKA25-40(230VAC)	4 Pole 25 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 230VAC Coil
IKA25-04(230VAC)	4 Pole 25 Amp NORMALLY CLOSED Modular Contactor 400VAC Contacts, 230VAC Coil
IKD225-20(24VAC/DC)	2 Pole 25 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC/DC Coil
IKD225-11(24VAC/DC)	2 Pole 25 Amp 1 x NORMALLY OPEN and 1 x NORMALLY CLOSED Modular Contactor 400VAC Contacts, 24VAC/DC Coil
IKD225-02(24VAC/DC)	2 Pole 25 Amp NORMALLY CLOSED Modular Contactor 400VAC Contacts, 24VAC/DC Coil
IKD25-40(24VAC/DC)	4 Pole 25 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC/DC Coil
IKD25-04(24VAC/DC)	4 Pole 25 Amp NORMALLY CLOSED Modular Contactor 400VAC Contacts, 24VAC/DC Coil

40A CONTACTORS



IKA240-20(230VAC)	2 Pole 40 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 230VAC Coil
IKA40-40(24VAC)	4 Pole 40 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC Coil
IKA40-40(230VAC)	4 Pole 40 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 230VAC Coil
IK40-40(24VAC/DC)	4 Pole 40 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC/DC Coil

CONTACTORS

63A CONTACTORS



IKA263-20(230VAC)	2 Pole 63 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 230VAC Coil
IKA63-40(230VAC)	4 Pole 63 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 230VAC Coil
IK63-40(24VAC/DC)	4 Pole 63 Amp NORMALLY OPEN Modular Contactor 400VAC Contacts, 24VAC/DC Coil

CONTACTOR ACCESSORIES

IKN02	2 Pole 6 Amp NORMALLY CLOSED Auxiliary Contact, 400VAC Contacts
IKN11	2 Pole 6 Amp 1xNORMALLY OPEN, 1xNORMALLY CLOSED Auxiliary Contact, 400VAC Contacts
IKN20	2 Pole 6 Amp NORMALLY OPEN Auxiliary Contact, 400VAC Contacts
IKV	Contactor Spacer Module, 9mm wide

MURRPLASTIK

Murrplastik is an international company with a global network of distributors who provide innovative solutions for your cable management and labelling needs. Their high-tech plastic products can be found in just about every industrial sector, ranging from the rail and automotive industry through toolmaking and mechanical engineering to electrical and medical engineering.

CABLE MARKER SLEEVES

High-quality, fully transparent label sleeves for labelling wires, cables and conduits. The KT sleeves are compatible with a variety of different markers. Sleeve sizes are available for cables with outer diameters of 1.3 – 23 mm² in a variety of lengths.

The sleeves are made from polyvinyl chloride and rated for temperatures from -40°C to 60 °C

CABLE MARKER SLEEVES 12MM - 18MM



KT0/12	Cable Marker Sleeves - 12mm long for cable with outer diameter of between 1.3 - 2.0mm - pkt of 2000
KT1/12	Cable Marker Sleeves - 12mm long for cable with outer diameter of between 1.8 - 2.5mm - pkt of 2000
KT2/12	Cable Marker Sleeves - 12mm long for cable with outer diameter of between 2.5 - 4.0mm - pkt of 2000
KT0/15	Cable Marker Sleeves - 15mm long for cable with outer diameter of between 1.3 - 2.0mm - pkt of 2000
KT1/15	Cable Marker Sleeves - 15mm long for cable with outer diameter of between 1.8 - 2.5mm - pkt of 2000
KT3/15	Cable Marker Sleeves - 15mm long for cable with outer diameter of between 4.0 - 6.5mm - pkt of 1000
KT2/15	Cable Marker Sleeves - 15mm long for cable with outer diameter of between 2.5 - 4.0mm - pkt of 2000
KT4/15	Cable Marker Sleeves - 15mm long for cable with outer diameter of between 6.0 - 10.0mm - pkt of 1000
KT5/15	Cable Marker Sleeves - 15mm long for cable with outer diameter of between 9.0 - 15.0mm - pkt of 1000
KT6/15	Cable Marker Sleeves - 15mm long for cable with outer diameter of between 15.0 - 23.0mm - pkt of 500
KT0/18	Cable Marker Sleeves - 18mm long for cable with outer diameter of between 1.3 - 2.0mm - pkt of 2000
KT1/18	Cable Marker Sleeves - 18mm long for cable with outer diameter of between 1.8 - 2.5mm - pkt of 2000
KT2/18	Cable Marker Sleeves - 18mm long for cable with outer diameter of between 2.5 - 4.0mm - pkt of 2000

CABLE MARKER SLEEVES 23MM - 30MM



KT0/23	Cable Marker Sleeves - 23mm long for cable with outer diameter of between 1.3 - 2.0mm - pkt of 2000
KT1/23	Cable Marker Sleeves - 23mm long for cable with outer diameter of between 1.8 - 2.5mm - pkt of 2000
KT2/23	Cable Marker Sleeves - 23mm long for cable with outer diameter of between 2.5 - 4.0mm - pkt of 1000
KT3/23	Cable Marker Sleeves - 23mm long for cable with outer diameter of between 4.0 - 6.5mm - pkt of 1000
KT4/23	Cable Marker Sleeves - 23mm long for cable with outer diameter of between 6.0 - 10.0mm - pkt of 1000
KT0/30	Cable Marker Sleeves - 30mm long for cable with outer diameter of between 1.3 - 2.0mm - pkt of 1000
KT1/30	Cable Marker Sleeves - 30mm long for cable with outer diameter of between 1.8 - 2.5mm - pkt of 1500
KT2/30	Cable Marker Sleeves - 30mm long for cable with outer diameter of between 2.5 - 4.0mm - pkt of 1000

OBO BETTERMANN

Sporting more than 30,000 products, OBO Bettermann is one of the largest privately owned manufacturers in Europe and has the largest global product range in overvoltage protection systems. They manufacture to the latest international standards and have their own in-house lightning generator. Check out their extensive range of connection and fastening products and well as cable duct and trunking systems.

LIGHTNING & SURGE PROTECTION

MC SERIES - COARSE OR TYPE 1 ARRESTORS



MC50-B	Multi-Carbon Spark Gap Lightning Controller - Single Pole - 50kA (10/350)
MC50-B/3	Multi-Carbon Spark Gap Lightning Controller - Three Pole - 150kA (10/350)
MC50-B/3+1	Multi-Carbon Spark Gap Lightning Controller - Four Pole - 125kA (10/350)
MC125-B/NPE	NPE Lightning Controller - 125kA (10/350)
MC-V3	Copper Bridge 16mm ² for MC Arrestors - Three Pole
MC-V4	Copper Bridge 16mm ² for MC Arrestors - Four Pole
LC63	Lightning Co-ordinator - 63 Amp

MCD SERIES - COMBINED COARSE & MEDIUM - TYPE 1 & 2 ARRESTORS



MCD50-B	Multi-Carbon Type 1 & 2 Arrestor - Single Pole - 50kA (10/350)
MCD50-B-OS	Multi-Carbon Type 1 & 2 Arrestor - Single Pole with Indication - 50kA (10/350)
MCD50-B/3	Multi-Carbon Type 1 & 2 Arrestor - Three Pole - 150kA (10/350)
MCD50-B/3+1	Multi-Carbon Type 1 & 2 Arrestor - Four Pole - 125kA (10/350)
MCD125-B/NPE	NPE Lightning Controller - 125kA (10/350)
PS3-B+C/TNC	3 Pole Protection Set - 100kA (10/350)
PS3-B+C/TNC+FS	3 Pole Protection Set with Remote Signalling - 100kA (10/350)
PS4-B+C/TT+TNS	4 Pole Protection Set - 100kA (10/350)
PS4-B+C/TNS+FS	4 Pole Protection Set with Remote Signalling - 100kA (10/350)
PS2-B+C/TT+TNS	2 Pole Protection Set - 100kA (10/350)
MC-V3	Copper Bridge 16mm ² for MC Arrestors - Three Pole
MC-V4	Copper Bridge 16mm ² for MC Arrestors - Four Pole

MCF SERIES - COMBINED COARSE & MEDIUM - TYPE 1 & 2 ARRESTORS



MCF75-3+FS	3 Pole Combination Arrestor with Remote Signalling - 75kA (10/350)
MCF100-3+NPE+FS	4 Pole Combination Arrestor with Remote Signalling - 100kA (10/350)

LIGHTNING & SURGE PROTECTION

V50 SERIES - COMBINED COARSE & MEDIUM - TYPE 1 & 2 ARRESTORS



V50-1-280	Single Pole Surge & Lightning Arrestor - 50kA (8/20)
V50-1+FS-280	Single Pole Arrestor with Remote Signalling - 50kA (8/20)
V50-1+NPE-280	Single Pole Arrestor with NPE Protection - 80kA (8/20)
V50-1+NPE+FS-280	Single Pole Arrestor with NPE & Remote Signalling - 80kA (8/20)
V50-2+NPE-280	Double Pole Arrestor with NPE Protection - 80kA (8/20)
V50-3-280	3 Pole Surge & Lightning Arrestor - 120kA (8/20)
V50-3+FS-280	3 Pole Arrestor with Remote Signalling - 120kA (8/20)
V50-3+NPE-280	3 Pole Arrestor with NPE Protection - 80kA (8/20)
V50-3+NPE+FS-280	3 Pole Arrestor with NPE & Remote Signalling - 80kA (8/20)
V50-4-280	4 Pole Surge & Lightning Arrestor - 160kA (8/20)
V50-4+FS-280	4 Pole Arrestor with Remote Signalling - 160kA (8/20)
V50-0-280	V50 Replacement Module
C50-0-255	V50 Type NPE Replacement Module



V20 SERIES - MEDIUM - TYPE 2 ARRESTORS



V20-1-280	Single Pole Surge Arrestor - 40kA (8/20)
V20-1+FS-280	Single Pole Arrestor with Remote Signalling - 40kA (8/20)
V20-1+NPE-280	Single Pole Arrestor with NPE Protection - 60kA (8/20)
V20-1+NPE+FS-280	Single Pole Arrestor with NPE & Remote Signalling - 60kA (8/20)
V20-2-280	Double Pole Arrestor - 80kA (8/20)
V20-2+FS-280	Double Pole Arrestor with Remote Signalling - 80kA (8/20)
V20-2+NPE-280	Double Pole Arrestor with NPE Protection - 60kA (8/20)
V20-2+NPE+FS-280	Double Pole Arrestor with NPE & Remote Signalling - 60kA (8/20)
V20-3-280	3 Pole Surge Arrestor - 120kA (8/20)
V20-3+FS-280	3 Pole Arrestor with Remote Signalling - 120kA (8/20)
V20-3+NPE-280	3 Pole Arrestor with NPE Protection - 60kA (8/20)
V20-3+NPE+FS-280	3 Pole Arrestor with NPE & Remote Signalling - 60kA (8/20)
V20-4-280	4 Pole Surge & Lightning Arrestor - 160kA (8/20)
V20-4+FS-280	4 Pole Arrestor with Remote Signalling - 160kA (8/20)
V20-0-280	V20 Replacement Module
C20-0-255	V20 Type NPE Replacement Module



V20-C SERIES - MEDIUM - TYPE 2 ARRESTORS WITH SPECIAL REMOTE SIGNALLING



V20-C/2+AS	Double Pole Arrestor with Audible Signal - 40kA (8/20)
V20-C/3+AS	Triple Pole Arrestor with Audible Signal - 60kA (8/20)
V20-C/4+AS	Four Pole Arrestor with Audible Signal - 80kA (8/20)
V20-C/3+NPE-AS	Triple Pole Arrestor & NPE with Audible Signal - 80kA (8/20)
V20-C/3+FS-SU	Triple Pole Arrestor with Function Monitoring - 60kA (8/20)
V20-C/4+FS-SU	Four Pole Arrestor with Function Monitoring - 80kA (8/20)

SURGE PROTECTION

V10-C SERIES - MEDIUM & FINE - TYPE 2 & 3 ARRESTORS



V10-C/1	Single Pole Arrestor - 20kA (8/20)
V10-C/2	Double Pole Arrestor - 20kA (8/20)
V10-C/3	Triple Pole Arrestor - 40kA (8/20)
V10-C/4	Four Pole Arrestor - 40kA (8/20)
V10-C/1+NPE	Single Pole Arrestor & NPE Spark Discharge - 20kA (8/20)
V10-C/2+NPE	Double Pole Arrestor & NPE Spark Discharge - 20kA (8/20)
V10-C/3+NPE	Triple Pole Arrestor & NPE Spark Discharge - 40kA (8/20)
V10-C/1+FS	Single Pole Arrestor with Remote Signalling - 20kA
V10-C/2+FS	Double Pole Arrestor with Remote Signalling - 20kA
V10-C/3+FS	Triple Pole Arrestor with Remote Signalling - 40kA
V10-C/1+NPE+FS	Single Pole Arrestor & NPE with Remote Signalling - 20kA
V10-C/2+NPE+FS	Double Pole Arrestor & NPE with Remote Signalling - 20kA
V10-C/3+NPE+FS	Triple Pole Arrestor & NPE with Remote Signalling - 40kA (8/20)
V10-C/0-280	Replacement Module Single Pole - 280V

V10 COMPACT SERIES - MEDIUM & FINE - TYPE 2 & 3 ARRESTORS



V10 Compact	V10 Arrestor Set - 3 Phase Neutral & Earth - 255V - 60kA (8/20)
V10 Compact-FS	V10 Arrestor Set with Remote Signalling - 3~/N/E - 255V - 60kA (8/20)
V10 Compact-AS	V10 Arrestor Set with Audible Signal - 3~/N/E - 255V - 60kA (8/20)
VB-V10 Compact 200	Connection Bridge 200mm for V10 Compact Products
VB-V10 Compact 400	Connection Bridge 400mm for V10 Compact Products

VF SERIES - FINE - TYPE 3 ARRESTORS



VF12-AC/DC	Single Pole Surge Arrestor - 12VAC/DC - 20 Amp
VF24-AC/DC	Single Pole Surge Arrestor - 24VAC/DC - 20 Amp
VF48-AC/DC	Single Pole Surge Arrestor - 48VAC/DC - 20 Amp
VF60-AC/DC	Single Pole Surge Arrestor - 60VAC/DC - 20 Amp
VF110-AC/DC	Single Pole Surge Arrestor - 110VAC/DC - 20 Amp
VF230-AC/DC	Single Pole Surge Arrestor - 230VAC/DC - 20 Amp
VF24-AC/DC-FS	Single Pole Arrestor with Remote Signalling - 24VAC/DC - 20 Amp
VF110-AC/DC-FS	Single Pole Arrestor with Remote Signalling - 110VAC/DC - 20 Amp
VF230-AC-FS	Single Pole Arrestor with Remote Signalling - 230VAC - 20 Amp

BUILT IN SERIES - FINE - TYPE 3 ARRESTORS & LED STREET LIGHT PROTECTION



KNS-D	Flush Box Installed Fine Protection
ÜSM-A	Surge Protection for Socket Outlets with Audible Signal
ÜSM-A-2	Surge Protection for Socket Outlets with Audible Signal - V Connection
ÜSM-LED-230	LED Light Fitting Protection
ÜSM-20-230I1P+PE	LED Street Light Protection - 20kA
ÜSM-10-230I1P+PE	LED Street Light Protection - 10kA

OBO - A COMPLETE SYSTEM

TESTING SURGE & LIGHTNING PROTECTION COMPONENTS



The BET Test Centre was founded in 1995 and possesses a lightning current generator for lightning current tests of up to 200 kA and a hybrid generator for surge current tests of up to 20 kV. The lightning current generator is used to test products from the lightning and surge protection systems product range. This generator can release 250kJ of electrical energy which is the energy you would need to fire a 10kg ball 2.55km vertically into the sky. The same energy would also raise the temperature of a litre of water by almost 60 °C in just one millisecond - much faster than you can read this sentence. The hybrid generator is used to test data cable protection devices as well as all kinds of cable routing and cable support systems up to lengths of eight metres.

COMPLETE PROTECTION SYSTEM FROM OBO





SOLAR PROTECTION SYSTEMS

PV TYPE 1 & 2 ARRESTORS



- V-PV-T1+2-1000 **Lightning and Surge Protection to 1000VDC**
- V-PV-T1+2-1000FS **Lightning and Surge Protection to 1000VDC with Remote Signalling**
- V-PV-T1+2-1500 **Lightning and Surge Protection to 1500VDC**
- V-PV-T1+2-1500FS **Lightning and Surge Protection to 1500VDC with Remote Signalling**
- V25-B+C/3-PH900 **Lightning and Surge Protection to 900VDC**
- V25-B+C/3PHFS900 **Lightning and Surge Protection to 900VDC with Remote Signalling**
- V25-B+C/0-450PV **Replacement Module for 900VDC Arrestor - 450VDC**
- V20-C/U-3PH-Y **PV 3 Pole Surge Arrestor Base**
- V20-C/U-3PH-Y-FS **PV 3 Pole Surge Arrestor Base with Remote Signalling**

PV TYPE 2 ARRESTORS



- V-PV-T2-1500 **Surge Protection to 1500VDC**
- V-PV-T2-1500FS **Surge Protection to 1500VDC with Remote Signalling**
- V20-C/3-PH-600 **Photovoltaic Surge Arrestor, 3 Pole, 600VDC**
- V20-C/3PHFS-600 **Photovoltaic Surge Arrestor with Remote Signalling, 3 Pole, 600VDC**
- V20-C/3-PH-1000 **Photovoltaic Surge Arrestor, 3 Pole, 1000VDC**
- V20-C/3PHFS-1000 **Photovoltaic Surge Arrestor with Remote Signalling, 3 Pole, 1000VDC**
- V20-C/0-300PV **Replacement Module for 600VDC Arrestor, 300VDC**
- V20-C/0-500PV **Replacement Module for 1000VDC Arrestor, 500VDC**
- V20-C/U-3PH-Y **PV 3 Pole Surge Arrestor Base**
- V20-C/U-3PH-Y-FS **PV 3 Pole Surge Arrestor Base with Remote Signalling**



DATA & COMMUNICATION PROTECTION

DATA COMBINATION ARRESTORS



TD-2D-V	Combination Protection Device - VDSL, DSL, IP, ISDN or Analogue
TD-4/I	Combination Protection Device - DSL, IP, ISDN or Analogue
TD-2/D-HS	Combination Protection Device - DSL, IP, ISDN or Analogue
SC-Tele/4-C-G	Combination Protection Device for Point of Entry - IP54
RJ11-Tele/4-C	Combined Protection Device with RJ11 Connections
RJ11-Tele/4-F	Precision Protection Device with RJ11 Connections
RJ45-Tele/4-C	Combined Protection Device with RJ45 Connections
RJ45-Tele/4-F	Precision Protection Device with RJ45 Connections

LSA PLUS SYSTEM



LSA-M	LSA Plus Base
LSA-A-LEI	LSA Plus Connection Block suitable for LSA-B-MAG Arrester
LSA-T-LEI	LSA Plus Connection Block suitable for both LSA-B-MAG & LSA-BF Arresters
LSA-B-MAG	LSA Basic Protection Arrester Block 10 Channel
LSA-E	LSA Earthing Strip for LSA-BF Arresters
LSA-BF-24	LSA 24 V Combined Protection Device Single Channel
LSA-BF-180	LSA 180 V Combined Protection Device Single Channel
LSA-G	Protective housing for a LSA 10

COAX PROTECTION



DS-Nm/w	Basic Coaxial Protection Device for HF Technology, 0 - 5.3 GHz
DS-BNCm/w	BNC Coaxial Protection Device, 0 - 2.2 GHz
S-UHFm/w	Coaxial Protection Device for UHF Technology, 0 - 1.3 GHz

DATA & CONTROL PROTECTION

NETWORK ARRESTORS



- ND-CAT6A/EA** High Speed Network Protection Class EA/CAT6A with POE (up to 1 Amp)
- RJ45S-ATM/8-F** Universal Fine Data Line Protection Device with RJ45 Connections
- ND-CAT6A/E-B** Network Protection Type 1 with POE (up to 1 Amp)
- ND-CAT6A/E-F** Network Protection Type 2 & 3 with POE (up to 1 Amp)

SERIAL INTERFACE PROTECTION

- SD09-V24-9** Serial Cable Protection - D-SUB 9 Pole Connection RS232
- SD09-V11-9** Serial Cable Protection - D-SUB 9 Pole Connection RS485

MCR PROTECTION



- TKS-B** Basic Protection Device for MCR and Telecommunication Systems
- FLD 5** Lightning Barrier for Measurement & Control Connections - 5V
- FLD 24** Lightning Barrier for Measurement & Control Connections - 24V
- FLD 60** Lightning Barrier for Measurement & Control Connections - 60V
- FLD 110** Lightning Barrier for Measurement & Control Connections - 110V
- FRD 24** Lightning Barrier for Measurement & Control Connections - 24V
- FRD 48** Lightning Barrier for Measurement & Control Connections - 48V
- FRD 110** Lightning Barrier for Measurement & Control Connections - 110V
- FRD 5 HF** Lightning Barrier for High Frequency Measurement Connections - 5V
- FRD 24 HF** Lightning Barrier for High Frequency Measurement Connections - 24V

MDP SERIES MULTI-CABLE PROTECTION



- MDP-2/D-5-T** Terminal Lightning Barrier, 5V, 2 Pole
- MDP-3/D-5-T** Terminal Lightning Barrier, 5V, 3 Pole
- MDP-4/D-5-T** Terminal Lightning Barrier, 5V, 4 Pole
- MDP-2/D-24-T** Terminal Lightning Barrier, 24V, 2 Pole
- MDP-3/D-24-T** Terminal Lightning Barrier, 24V, 3 Pole
- MDP-4/D-24-T** Terminal Lightning Barrier, 24V, 4 Pole
- MDP-2/D-48-T** Terminal Lightning Barrier, 48V, 2 Pole
- MDP-3/D-48-T** Terminal Lightning Barrier, 48V, 3 Pole
- MDP-4/D-48-T** Terminal Lightning Barrier, 48V, 4 Pole
- VB-MDP/10-MD** MDP Series Connection Bridge, 10 Pole
- LFC** Life Control Tester for the MDP Lightning Barriers

DATA & CONTROL PROTECTION

MDP SERIES MULTI-CABLE PROTECTION (EX)



MDP-4-D-5-EX	Terminal Lightning Barrier for EX MCR Circuits - 5V, 4 Pole
MDP-4-D-24-EX	Terminal Lightning Barrier for EX MCR Circuits - 24V, 4 Pole
MDP-4-D48-EX	Terminal Lightning Barrier for EX MCR Circuits - 48V, 4 Pole

EARTH SYSTEM SPARK GAP ARRESTORS (EX)



480-180	Spark Gap Arrestor (EX)- closed type with 180mm leads
480-250	Spark Gap Arrestor (EX)- closed type with 250mm leads
480-350	Spark Gap Arrestor (EX)- closed type with 350mm leads
481	Spark Gap Arrestor

PETROL FIELD PROTECTOR (EX)



FDB-2-24-M	Petrol Field Protector - 24V, 2 Pole, M20 Thread
FDB-2-24-N	Petrol Field Protector - 24V, 2 Pole, 1/2" NPT Thread
FDB-3-24-M	Petrol Field Protector - 24V, 3 Pole, M20 Thread
FDB-3-24-N	Petrol Field Protector - 24V, 3 Pole, 1/2" NPT Thread



Please ask for a copy of the OBO Bettermann lighting and surge voltage protection catalogue.

STRIPCONNECTORS - ENCLOSURES - DIN RAIL

STRIPCONNECTORS



OBO-72/CE	12 Way Stripconnector, Size 1.5-4mm ² 24 Amp
OBO-74/CE	12 Way Stripconnector, Size 1.5-6mm ² 32 Amp
OBO-76/CE	12 Way Stripconnector, Size 2.5-10mm ² 41 Amp
OBO-78/CE	12 Way Stripconnector, Size 4-16mm ² 76 Amp
OBO-79/CE	12 Way Stripconnector, Size 6-25mm ² 101 Amp
OBO-80/CE	12 Way Stripconnector, Size 10-35mm ² 125 Amp

ENCLOSURES



OBO-A6	Junction Box Empty, 80x43x34mm deep, IP55
OBO-A8	Junction Box Empty, 75x75x36mm deep, IP55
OBO-A11	Junction Box Empty, 85x85x40mm deep, IP55
OBO-A14	Junction Box Empty, 100x100x40mm deep, IP55
OBO-A18	Junction Box Empty, 125x100x40mm deep, IP55
OBO-A84	Junction Box including Terminals, 4 Pole 32 Amp, IP55
OBO-A184	Junction Box including Terminals, 4 Pole 32 Amp, IP55

AQUASIT - COLD CASTING COMPOUND IP68



OBO AQUASIT cold casting compound is the safe solution for electrical installations in wet and damp environments. Aquasit is inserted into an installed enclosure using a standard cartridge pistol. The transparent, amber-coloured resin based compound sets to a soft elastic finish. Aquasit is "self-healing and can be easily removed."

Type	OBO-A6	OBO-A8	OBO-A11	OBO-A14	OBO-A18
Cartridges per Enclosure	0.4	0.5	0.8	1.1	1.4



KVM	Aquasit compound cartridge 250ml (includes mixer pipe)
KVM-M	Aquasit compound cartridge mixer pipe
KVM-P	Aquasit cartridge pistol (Aquasit cartridges will fit any standard pistol)

RAIL SYSTEMS - ELECTROGALVANISED TRANSPARENTLY PASSIVATED STEEL



2069GTP/2M	DIN Rail - 35x7.5mm - 2m
2069GTPL/2M	Slotted DIN Rail - 35x7.5mm - 2m
2069GTPL/1M	Slotted DIN Rail - 35x7.5mm - 1m
2069GTP/15/1.5/2M	DIN Rail - 35x15x1.5mm - 2m
2069GTPL/15/1.5/2M	Slotted DIN Rail - 35x15x1.5mm - 2m
2069GTP/15/2.2/2M	DIN Rail - 35x15x2.2mm - 2m
2069GTPL/15/2.2/2M	Slotted DIN Rail - 35x15x2.2mm - 2m
2064GTP/2M	C Type Rail - 32x15mm - 2m
2064GTPL/2M	Slotted C Type Rail - 32x15mm - 2m
46277GTP/2M	"Mini" DIN Rail - 15x5mm - 2m
46277GTPL/2M	Slotted "Mini" DIN Rail - 15x5mm - 2m

CATALOGUES & SOLUTION GUIDES

OBO Bettermann are able to help you select the right product for your project. Their professionally laid out catalogues include a planners section which assists with important basic information. Their solution guides give the project designer important information concerning specific applications.

Below are a selection of the guides available - see our website www.mardag.co.nz



Solutions for
Data Centres



Solutions for the
Food Industry



Solutions for
Health Care Sector



Solutions for
Power Stations



Solutions for
Ship Construction



Solutions for
Solar Systems



Solutions for Airports
and Railway Stations



Solutions for the
Manufacturing Industry



Solutions for
Commercial Buildings



Solutions for
Wind Power

SWITCHBOARD SLOTTED TRUNKING

TECHNICAL INFORMATION



Superb quality ensures soft burr-free slots preventing cable damage even in high vibration situations.



True to size manufacturing means easy mounting and removal of cover despite a tight shake resistant fit.



Choosing the lobe version ensures the installed wires do not fall out.



The fingers have predetermined breaking points that are much more defined to allow easy break-out.



Additional breaking point in the floor of the trunking can be used even when the duct is already fixed in place.



This avoids loss of volume and speeds up installation. All sizes are Internal Dimensions.




OPEN SLOTTED SWITCHBOARD TRUNKING







Code	Description	Lgths/Box
LK4 15015	Duct Height 15mm x Width 15mm - Length 2 Meters	36
LK4 30015	Duct Height 30mm x Width 15mm - Length 2 Meters	20
LK4 30025	Duct Height 30mm x Width 25mm - Length 2 Meters	24
LK4 40025	Duct Height 40mm x Width 25mm - Length 2 Meters	24
LK4 40040	Duct Height 40mm x Width 40mm - Length 2 Meters	18
LK4 40060	Duct Height 40mm x Width 60mm - Length 2 Meters	12
LK4 60025	Duct Height 60mm x Width 25mm - Length 2 Meters	16
LK4 60040	Duct Height 60mm x Width 40mm - Length 2 Meters	12
LK4 60060	Duct Height 60mm x Width 60mm - Length 2 Meters	16
LK4 60080	Duct Height 60mm x Width 80mm - Length 2 Meters	12
LK4 60100	Duct Height 60mm x Width 100mm - Length 2 Meters	8
LK4 60120	Duct Height 60mm x Width 120mm - Length 2 Meters	4
LK4 80025	Duct Height 80mm x Width 25mm - Length 2 Meters	16
LK4 80040	Duct Height 80mm x Width 40mm - Length 2 Meters	12
LK4 80060	Duct Height 80mm x Width 60mm - Length 2 Meters	12
LK4 80080	Duct Height 80mm x Width 80mm - Length 2 Meters	8
LK4 80100	Duct Height 80mm x Width 100mm - Length 2 Meters	8
LK4 80120	Duct Height 80mm x Width 120mm - Length 2 Meters	4
LKV 10037	Duct Height 100mm x Width 37.5mm - Length 2 Meters	16
LKV 10050	Duct Height 100mm x Width 50mm - Length 2 Meters	12
LKV 10075	Duct Height 100mm x Width 75mm - Length 2 Meters	8
LKV 100100	Duct Height 100mm x Width 100mm - Length 2 Meters	4

SWITCHBOARD SLOTTED TRUNKING

OPEN SLOTTED SWITCHBOARD TRUNKING WITH LOBES

	Code	Description	Lgths/Box
	LK4/N 60025	Duct Height 60mm x Width 25mm - Length 2 Meters - with Lobes	16
	LK4/N 60040	Duct Height 60mm x Width 40mm - Length 2 Meters - with Lobes	12
	LK4/N 60060	Duct Height 60mm x Width 60mm - Length 2 Meters - with Lobes	16
	LK4/N 60080	Duct Height 60mm x Width 80mm - Length 2 Meters - with Lobes	12
	LK4/N 60100	Duct Height 60mm x Width 100mm - Length 2 Meters - with Lobes	8
	LK4/N 60120	Duct Height 60mm x Width 120mm - Length 2 Meters - with Lobes	4
	LK4/N 80025	Duct Height 80mm x Width 25mm - Length 2 Meters - with Lobes	16
	LK4/N 80040	Duct Height 80mm x Width 40mm - Length 2 Meters - with Lobes	12
	LK4/N 80060	Duct Height 80mm x Width 60mm - Length 2 Meters - with Lobes	12
	LK4/N 80080	Duct Height 80mm x Width 80mm - Length 2 Meters - with Lobes	8
	LK4/N 80100	Duct Height 80mm x Width 100mm - Length 2 Meters - with Lobes	8
	LK4/N 80120	Duct Height 80mm x Width 120mm - Length 2 Meters - with Lobes	4
	LKV/N 10037	Duct Height 100mm x Width 37.5mm - Length 2 Meters - with Lobes	16
	LKV/N 10050	Duct Height 100mm x Width 50mm - Length 2 Meters - with Lobes	12
	LKV/N 10075	Duct Height 100mm x Width 75mm - Length 2 Meters - with Lobes	8
	LKV/N 100100	Duct Height 100mm x Width 100mm - Length 2 Meters - with Lobes	4

ACCESSORIES

	LK4/H	Cable Retaining Clamp for LK4 Type Trunking
	LKV/H	Cable Retaining Clamp for LKV Type Trunking
	KSN 2	Fixing Plastic Rivet - 6mm - packet of 100
	LK4/D 15	Spare Duct Cover or Trunking Lid - 15mm wide
	LK4/D 25	Spare Duct Cover or Trunking Lid - 25mm wide
	LK4/D 40	Spare Duct Cover or Trunking Lid - 40mm wide
	LK4/D 60	Spare Duct Cover or Trunking Lid - 60mm wide
	LK4/D 80	Spare Duct Cover or Trunking Lid - 80mm wide
	LK4/D 100	Spare Duct Cover or Trunking Lid - 100mm wide - only for LK4 Models
	LK4/D 120	Spare Duct Cover or Trunking Lid - 120mm wide
	LKV/D 37	Spare Duct Cover or Trunking Li - 37mm wide
	LKV/D 50	Spare Duct Cover or Trunking Lid - 50mm wide
	LKV/D 75	Spare Duct Cover or Trunking Lid - 75mm wide
	LKV/D 100	Spare Duct Cover or Trunking Lid - 100mm wide - only for LKV Models
	SG 2545	Cutting Tool with 80mm Blade - Quick & Easy Trunking Cutter
	DC125	Trunking Cutter

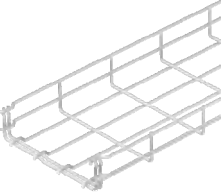
MESH CABLE TRAY

CABLE TRAY - SIDE HEIGHT 35MM - GALVANIZED



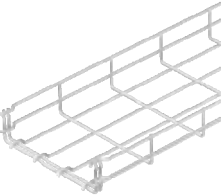
GRM35-50G	Tray Width 50mm - Approved Load of 0.25kN/m - 3m
GRM35-100G	Tray Width 100mm - Approved Load of 0.25kN/m - 3m

CABLE TRAY - SIDE HEIGHT 55MM - GALVANIZED



GRM55-50G	Tray Width 50mm - Approved Load of 0.35kN/m - 3m
GRM55-100G	Tray Width 100mm - Approved Load of 0.35kN/m - 3m
GRM55-150G	Tray Width 150mm - Approved Load of 0.35kN/m - 3m
GRM55-200G	Tray Width 200mm - Approved Load of 0.35kN/m - 3m
GRM55-300G	Tray Width 300mm - Approved Load of 0.7kN/m - 3m
GRM55-400G	Tray Width 400mm - Approved Load of 0.9kN/m - 3m
GRM55-500G	Tray Width 500mm - Approved Load of 0.9kN/m - 3m
GRM55-600G	Tray Width 600mm - Approved Load of 0.9kN/m - 3m

CABLE TRAY - SIDE HEIGHT 105MM - GALVANIZED



GRM105-100G	Tray Width 100mm - Approved Load of 0.8kN/m - 3m
GRM105-200G	Tray Width 200mm - Approved Load of 1.0kN/m - 3m
GRM105-300G	Tray Width 300mm - Approved Load of 1.6kN/m - 3m
GRM105-400G	Tray Width 400mm - Approved Load of 1.6kN/m - 3m
GRM105-500G	Tray Width 500mm - Approved Load of 1.6kN/m - 3m
GRM105-600G	Tray Width 600mm - Approved Load of 1.6kN/m - 3m

90° BENDS - SIDE HEIGHT 55MM - GALVANIZED



GRB90-510G	90° Bend for Tray Width 100mm
GRB90-515G	90° Bend for Tray Width 150mm
GRB90-520G	90° Bend for Tray Width 200mm
GRB90-530G	90° Bend for Tray Width 300mm
GRB90-540G	90° Bend for Tray Width 400mm
GRB90-550G	90° Bend for Tray Width 500mm
GRB90-560G	90° Bend for Tray Width 600mm

BARRIER STRIP



TSG45FS	Clip-In Galvanised Separation Barrier Strip - Side Height of 55 - 3m
TSGVA2	Barrier Strip Connector - Stainless Steel
KSGRA2	Barrier Strip Hold-Down Clamp - Stainless Steel

MESH CABLE TRAY

WALL & CEILING BRACKETS - SIDE HEIGHT 35MM & 55MM - GALVANIZED



TPDG145FS	Wall and Ceiling Brackets with Magic Connection System - 100mm wide
TPDG195FS	Wall and Ceiling Brackets with Magic Connection System - 150mm wide
TPDG245FS	Wall and Ceiling Brackets with Magic Connection System - 200mm wide
TPDG345FS	Wall and Ceiling Brackets with Magic Connection System - 300mm wide
TPD445FS	Wall and Ceiling Brackets - 400mm wide
TPD545FS	Wall and Ceiling Brackets - 500mm wide

WALL BRACKETS - GALVANIZED



TPSA145FS	Wall Brackets - 100mm wide
TPSAG145FS	Wall Brackets with Magic Connection System - 100mm wide
TPSAG195FS	Wall Brackets with Magic Connection System - 150mm wide
TPSAG245FS	Wall Brackets with Magic Connection System - 200mm wide
TPSAG345FS	Wall Brackets with Magic Connection System - 300mm wide

STAND-OFF BRACKETS - GALVANIZED



DBLG20-050FS	Stand-Off Bracket with Magic Connection System - 50mm wide
DBLG20-100FS	Stand-Off Bracket with Magic Connection System - 100mm wide
DBLG20-150FS	Stand-Off Bracket with Magic Connection System - 150mm wide
DBLG20-200FS	Stand-Off Bracket with Magic Connection System - 200mm wide
DBLG20-300FS	Stand-Off Bracket with Magic Connection System - 300mm wide
DBLG20-400FS	Stand-Off Bracket with Magic Connection System - 400mm wide
DBLG20-500FS	Stand-Off Bracket with Magic Connection System - 500mm wide
DBLG20-600FS	Stand-Off Bracket with Magic Connection System - 600mm wide

CENTRE SUSPENSION UNIT - GALVANIZED



GMA-M8FS	Two Part Centre Suspension Unit - M8
GMA-M10FS	Two Part Centre Suspension Unit - M10

CLAMPS & HANGERS - GALVANIZED



K12-1818FS	Wall Clamp / Central Hanger to 200mm or trapeze suspension from 300mm
WH-GRM35FT	GRM35-50 Wall Bracket with Magic Connection - Hot Dip Galvanised
GKS34G	Hold Down Clamp - M6
GKS50-07FS	Hold Down Clamp - M6
BC-GR-4,8-A2	Hold Down Clamp for Screwless Fixing to MS Profile Rails - Stainless Steel
SH-M10FS	Side Holder for Mesh Tray Suspension - M10 Threaded Rod
DBV-FS	Variable Ceiling Bracket - M10 Threaded Rod
BFK132-58FT	Vertical Beam Clamp
BFK153-33FT	Horizontal Beam Clamp

MESH CABLE TRAY

CONNECTORS - GALVANIZED



GSV34G	Joint Connector including Flange Nut
GEV36G	Corner Connector including Flange Nut
K11-262FT	Joint Connector including Clamping System
GRS3.9DD	Quick Connector for Straight Connections - 3.9mm Tray
GRS4.8DD	Quick Connector for Straight Connections - 4.8mm Tray

CABLE TRAY COVER - GALVANIZED



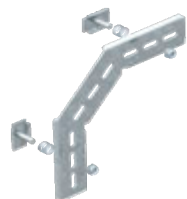
DRLU050FS	Cable Tray Cover 50mm - 3m
DRLU100FS	Cable Tray Cover 100mm - 3m
DRLU150FS	Cable Tray Cover 150mm - 3m
DRLU200FS	Cable Tray Cover 200mm - 3m
DRLU300FS	Cable Tray Cover 300mm - 3m
DRLU400FS	Cable Tray Cover 400mm - 3m
DRLU500FS	Cable Tray Cover 500mm - 3m
DKUVA4310	Cable Tray Cover Clamp - 55mm and 105mm Height - Stainless Steel

CABLE JUNCTION BOX



T60OE	Enclosure Light Grey Plain Sides - 114x114x57mm Deep - IP66
T100OE	Enclosure Light Grey Plain Sides - 150x116x67mm Deep - IP66
T160OE	Enclosure Light Grey Plain Sides - 190x150x77mm Deep - IP66
BE-TS-GR	Mounting Base for T60OE and T100OE - Screwless
MPG65FT	Wall Bracket and Mounting Plate - Small
MPG90FT	Wall Bracket and Mounting Plate - Large





ACCESSORIES



EKL25M6	Mesh Tray Earthing Terminal - Brass - 25mm - M6
VEK-GRM3.9FS	Grounding Clamp - NEMA and CSA - 3.9mm
VEK-GRM4.8FS	Grounding Clamp - NEMA and CSA - 4.8mm
MW90-SL17FT	90 Degree Mounting Angle for GRM55 - Galvanised 170x170mm
KAB-GR-FS	Wire Mesh Tray Drop Out Plate - Screwless
KSGRLBL	Mesh Tray Identification Clip - Blue
KSGROR	Mesh Tray Identification Clip - Orange
KSGRSGN	Mesh Tray Identification Clip - Green
KSGRZGB	Mesh Tray Identification Clip - Yellow
GRKS3.9OR	Mesh Tray Protective Cap - 3.9mm / 50mm to 200mm wide - Orange
GRKS4.8OR	Mesh Tray Protective Cap - 4.8mm / 300mm to 600mm wide Orange
DS4FS	TP Bracket Spacer for increased Structural Mounting Strength

MESH CABLE TRAY - STAINLESS

MESH CABLE TRAY - FOOD GRADE STAINLESS STEEL - SS304

	GRM55-100VA4301	Tray Width 100mm - 72.4kg/100m - 3m
	GRM55-150VA4301	Tray Width 150mm - 88.0kg/100m - 3m
	GRM55-200VA4301	Tray Width 200mm - 97.0kg/100m - 3m
	GRM55-300VA4301	Tray Width 300mm - 191.1kg/100m - 3m
	GRM55-400VA4301	Tray Width 400mm - 243.0kg/100m - 3m
	GRM55-600VA4301	Tray Width 600mm - 331.0kg/100m - 3m
	GMA-M10-VA4401	Two Part Centre Suspension Unit - M10
	GSV34VA4301	Joint Connector including Flange Nut
	GEV36VA4301	Corner Connector including Flange Nut
	GKS34VA4301	Hold Down Clamp
	BC-GR-4,8-A2	Hold Down Clamp for Screwless Fixing to MS Profile Rails - Stainless Steel
	K12-1818-VA4301	Wall Clamp / Central Hanger to 200mm or trapeze suspension from 300mm
	TPDG145VA4301	Wall and Ceiling Brackets with Magic Connection System - 100mm wide
	TPDG195VA4301	Wall and Ceiling Brackets with Magic Connection System - 150mm wide
	TPDG245VA4301	Wall and Ceiling Brackets with Magic Connection System - 200mm wide
	TPDG345VA4301	Wall and Ceiling Brackets with Magic Connection System - 100mm wide

MESH CABLE TRAY - MARINE GRADE STAINLESS STEEL - SS316

PLEASE CONTACT US FOR MORE INFORMATION

RAYLEIGH

Established in 1964 Rayleigh have become one of the leading manufacturers and suppliers of process control instrumentation equipment in the UK. They are manufacturers and stockists of an extensive range of energy monitoring products including current transformers, kilowatt hour (kWh) meters, multifunction power monitors, measuring transducers, data loggers, communication interfaces and software. Their instrumentation products include analogue and digital square Din switchboard instruments.



CURRENT TRANSFORMERS

Rayleigh Instruments provide an extensive range of energy monitoring products including current transformers, kilowatt hour (kWh) meters, multifunction power monitors, measuring transducers, data loggers, communication interfaces and software. Their instrumentation products include analogue and digital square DIN switchboard instruments.

CURRENT TRANSFORMER BLOCKS - SINGLE PHASE



Typical Image

RI-CT060-125A	Single Phase Molded Case Current Transformer - 24mm Cable or 30x10mm busbar - 125 Amps
RI-CT060-200A	Single Phase Molded Case Current Transformer - 24mm Cable or 30x10mm busbar - 200 Amps
RI-CT060-250A	Single Phase Molded Case Current Transformer - 24mm Cable or 30x10mm busbar - 250 Amps
RI-CT060-400A	Single Phase Molded Case Current Transformer - 24mm Cable or 30x10mm busbar - 400 Amps
RI-CT060-500A	Single Phase Molded Case Current Transformer - 24mm Cable or 30x10mm busbar - 500 Amps
RI-CT080-500A	Single Phase Molded Case Current Transformer - 40mm Cable or 50x10mm busbar - 500 Amps
RI-CT080-800A	Single Phase Molded Case Current Transformer - 40mm Cable or 50x10mm busbar - 800 Amps
RI-CT080-1000A	Single Phase Molded Case Current Transformer - 40mm Cable or 50x10mm busbar - 1000 Amps
RI-CT080-1250A	Single Phase Molded Case Current Transformer - 40mm Cable or 50x10mm busbar - 1250 Amps
RI-CT110-1000A	Single Phase Molded Case Current Transformer - 60mm Cable or 60x30mm busbar - 1000 Amps
RI-CT110-1250A	Single Phase Molded Case Current Transformer - 60mm Cable or 60x30mm busbar - 1250 Amps
RI-CT110-1600A	Single Phase Molded Case Current Transformer - 60mm Cable or 60x30mm busbar - 1600 Amps
RI-CT110-2000A	Single Phase Molded Case Current Transformer - 60mm Cable or 60x30mm busbar - 2000 Amps
RI-CT120-1600	Single Phase Moulded Case Current Transformer - 65 x 32mm - 1600 Amps

CURRENT TRANSFORMERS

CURRENT TRANSFORMER BLOCKS - 3 PHASE



Typical Image

RI-CT240-60	3 Phase Current Transformer Block - 25mm Hole Centres - 60:5 Amp
RI-CT240-100	3 Phase Current Transformer Block - 25mm Hole Centres - 100:5 Amp
RI-CT240-125	3 Phase Current Transformer Block - 25mm Hole Centres - 125:5 Amp
RI-CT240-160	3 Phase Current Transformer Block - 25mm Hole Centres - 160:5 Amp
RI-CT242-100	3 Phase Current Transformer Block - 35mm Hole Centres - 100:5 Amp
RI-CT242-160	3 Phase Current Transformer Block - 35mm Hole Centres - 160:5 Amp
RI-CT242-200	3 Phase Current Transformer Block - 35mm Hole Centres - 200:5 Amp
RI-CT242-250	3 Phase Current Transformer Block - 35mm Hole Centres - 250:5 Amp
RI-CT248-250	3 Phase Current Transformer Block - 45mm Hole Centres - 250:5 Amp
RI-CT248-300	3 Phase Current Transformer Block - 45mm Hole Centres - 300:5 Amp
RI-CT248-400	3 Phase Current Transformer Block - 45mm Hole Centres - 400:5 Amp
RI-CT248-630	3 Phase Current Transformer Block - 45mm Hole Centres - 630:5 Amp
RI-CT250-630	3 Phase Current Transformer Block - 70mm Hole Centres - 630:5 Amp
RI-CT250-800	3 Phase Current Transformer Block - 70mm Hole Centres - 800:5 Amp
RI-CT250-1000	3 Phase Current Transformer Block - 70mm Hole Centres - 1000:5 Amp
RI-CT250-1250	3 Phase Current Transformer Block - 70mm Hole Centres - 1250:5 Amp
RI-CT250-1600	3 Phase Current Transformer Block - 70mm Hole Centres - 1600:5 Amp

CURRENT TRANSFORMER BLOCKS - SPLIT CORE



Typical Image

RI-CTS024-G-100/5	Split Core Current Transformer - 24mm Hole - 100:5 Amp
RI-CTS024-G-160/5	Split Core Current Transformer - 24mm Hole - 160:5 Amp
RI-CTS024-G-250/5	Split Core Current Transformer - 24mm Hole - 250:5 Amp
RI-CTS036-G-400/5	Split Core Current Transformer - 36mm Hole - 400:5 Amp
RI-CTS036-G-600/5	Split Core Current Transformer - 36mm Hole - 600:5 Amp



EASYWIRE® SYSTEM

The Rayleigh Easywire® system is a unique concept that dramatically reduces the wiring/installation time of multifunction power meters and current transformers. These savings are made possible due to the innovative design of both the current transformers and the meters, which allow plug-in connectors to be used for both current and voltage input/output. An RJ45 lead is used for connecting between the three phase current transformer and meter, and 'readymade' plug-in leads are used for the voltage input. The meters are provided with both input and output voltage connections which allow up to 32 meters to be daisy-chained to a common supply voltage via the first meter.

EASYWIRE CURRENT TRANSFORMERS - 3 PHASE



Typical Image

- RI-CT240-EW-100** Easywire 3 Phase Current Transformer - 25mm Hole Centers - 100 Amp
- RI-CT240-EW-60** Easywire 3 Phase Current Transformer - 25mm Hole Centers - 60 Amp
- RI-CT242-EW-125** Easywire 3 Phase Current Transformer - 35mm Hole Centers - 125 Amp
- RI-CT242-EW-250** Easywire 3 Phase Current Transformer - 35mm Hole Centers - 250 Amp
- RI-CT242-EW-60** Easywire 3 Phase Current Transformer - 35mm Hole Centers - 60 Amp
- RI-CT248-EW-400** Easywire 3 Phase Current Transformer - 45mm Hole Centers - 400 Amp
- RI-CT248-EW-630** Easywire 3 Phase Current Transformer - 45mm Hole Centers - 630 Amp
- RI-CT250-EW-1600** Easywire 3 Phase Current Transformer - 70mm Hole Centers - 1600 Amp
- RI-CT250-EW-800** Easywire 3 Phase Current Transformer - 70mm Hole Centers - 800 Amp

EASYWIRE ENERGY METERS



Typical Image

- RI-D440-G-C** Easywire Multifunction DIN Rail Energy Meter suitable for Single Load
- RI-D460-G-C** Easywire Multifunction DIN Rail Energy Meter suitable for Double Loads
- RI-D480-G-C** Easywire Multifunction DIN Rail Energy Meter suitable for Quad Loads

EASYWIRE® SYSTEM

EASYWIRE SYSTEM ACCESSORIES

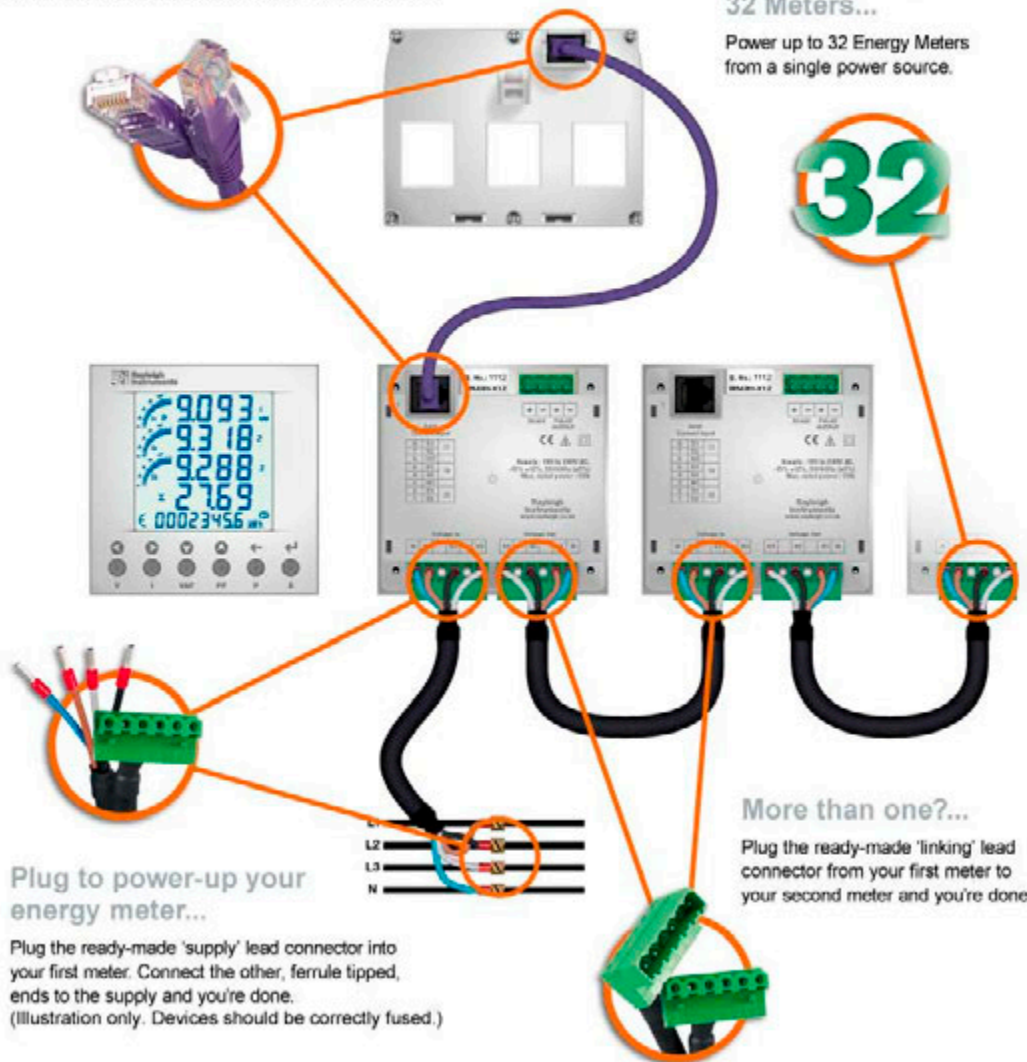
BV9522	Easywire Female Meter Plug
BV9523	Easywire Male Meter Plug
TAS-F-MTMSC0.15	Easywire Meter to Meter Supply Cable - 0.15 meter
TAS-F-MTMSC0.30	Easywire Meter to Meter Supply Cable - 0.3 meter
TAS-F-MTMSC0.5	Easywire Meter to Meter Supply Cable - 0.5 meter
TAS-F-MTMSC1.0	Easywire Meter to Meter Supply Cable - 1.0 meter
TAS-F-MVSC1.50	Easywire Meter Voltage Connection Cable - 1.5 meters
TAS-F-MVSC3.0	Easywire Meter Voltage Connection Cable - 3.0 meters
TAS-RJ45CC1.0	Easywire RJ45 Connection Cable - 1 meter
TAS-RJ45CC3.0	Easywire RJ45 Connection Cable - 3 meter

Connect your current transformer...

Plug one end of the RJ45 lead into the multifunction power meter and the other end into the three-phase current transformer and you're done - it's that simple.

Daisy-chain up to 32 Meters...

Power up to 32 Energy Meters from a single power source.



Plug to power-up your energy meter...

Plug the ready-made 'supply' lead connector into your first meter. Connect the other, ferrule tipped, ends to the supply and you're done. (Illustration only. Devices should be correctly fused.)

More than one?...

Plug the ready-made 'linking' lead connector from your first meter to your second meter and you're done.

ENERGY METERS & POWER ANALYSERS

Multifunction Energy Meters for single phase and three phase MID and non MID energy monitoring applications - direct connection or current transformer operated with a range of communication protocols including pulse, Modbus and Mbus. DIN rail mounting, panel mounting models available.

kWh Energy Meters for single phase and three phase MID and non MID energy monitoring applications - direct connection or current transformer operated with a range of communication protocols including pulse, Modbus RS485 RTU and Mbus.

ENERGY METERS & POWER ANALYSERS



Typical Image

RI-70-100P 3 Phase Multifunction Energy Meter with High Definition LCD Display - 100 Amp Direct Connection - with Pulse Output

RI-D18-100-C Single Phase Multifunction Energy Meter with High Definition LCD Scrolling Display - 100 Amp Direct Connection with RS485 Modbus Communication - 1 module wide

RI-D70-C 3 Phase Multifunction Energy Meter with High Definition LCD Display - 100 Amp Direct Connection - with Pulse Output and RJ485 Modbus Communication

RI-D240-G-C 3 Phase Multifunction Energy Meter with High Definition LCD Display - 5 Amp CT Connection with Modbus Output



Typical Image

RI-F220-G-C Multifunction Energy Meter with LCD Display - 5 Amp Input - with RS485 Modbus & Pulse Output - Displays Energy, Voltage, Current, Power, Power Factor, Frequency & Harmonic Distortion

RI-F500 Multifunction Power Analyser with High Definition LCD Display - 5 Amp Input - Mono Screen - with RS485 Modbus, Pulse Output, 2 Digital Inputs, 2 x Relay Outputs - Expandable with up to 4 Plug in Modules

RI-F550 Multifunction Power Analyser with High Definition LCD Display - 5 Amp Input - Colour Screen - with RS485 Modbus, Pulse Output, 2 Digital Inputs, 2 x Relay Outputs - Expandable with up to 4 Plug in Modules

MODULES



RI-A5IPBAC **RI-F500 Series Power Analyser BACnet TCP/IP Module**



ANRB1 **Sequence Meter for Symmetric 3 Phase Network**

SENECA

Signal Converters, Barriers & Displays - Seneca is the leading Italian manufacturer of Signal Conditioning and Modbus I/O products. Their innovative approach gives elegant solutions to all process interfacing and data acquisition challenges. Seneca has built a reputation of offering accurate and easy to use products.

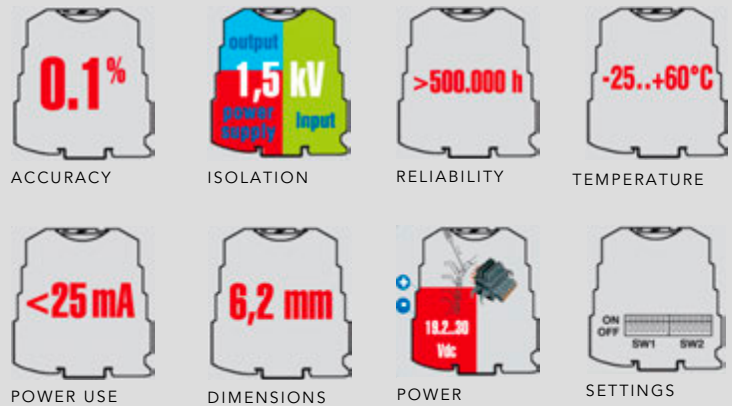


CONVERTERS & INTERFACES

TECHNICAL INFORMATION



K-LINE CHARACTERISTICS



K LINE SIGNAL ISOLATORS / CONVERTERS



K109PT



K109UI

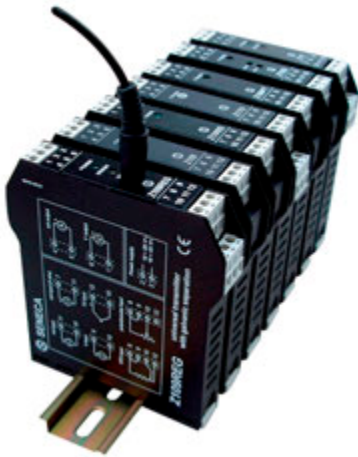


K-BUS

K109PT	Pt100 to DC Current Isolator/Converter
K120RTD	Pt100/Ni100 to DC Current Converter (loop powered)
K109TC	Thermocouple to DC Current Isolator/Converter (with trip alarm control)
K109UI	DC Current / Voltage Isolator/Converter
K109S	DC Current / Voltage Isolator/Converter (with power transducers)
K109LV	DC Low Voltage (Shunt) to DC Current/Voltage Isolator/Converter
K107USB	Serial Isolator/Converter - USB/RS485 Converter
K121	Universal Isolator/Converter - RTD,TC,Ohm,mA,V to 4/20mA (loop powered)
S107USB	Portable USB/RS485 Converter
K-BUS	Backplane Connector
K-SUPPLY	Power Supply and Electronic protection system
Easy-USB	Configuration communication converter for USB to K devices

CONVERTERS & INTERFACES

TECHNICAL INFORMATION



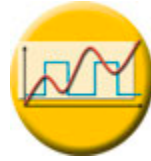
Z-LINE CHARACTERISTICS



CONNECTIONS



ISOLATION



WIDE RANGE



TRANSDUCERS

Z Line series offers a full range of signal conditioners including Signal Converters, Transmitters, Galvanic Isolators, Splitters, Trip Amplifiers and Math's Modules. They are easy to use, simple to install and have a universal (AC/DC) voltage supply. Other features are Din rail mounting, 3 way galvanic isolation, compact housing (17.5 mm wide), plug in terminals, easy dipswitch and/or PC setup.

Z LINE SIGNAL ISOLATORS / CONVERTERS



Z109REG2

- Z109REG2** Universal Isolator / Converter with special functions
- Z109UI2** Isolator / Converter - voltage/current to current/voltage
- Z110S** Loop Powered Current Isolator for 4..20 mA loop - 1 Channel
- Z110D** Loop Powered Current Isolator for 4..20 mA loop - 2 Channel
- Z102** Potentiometer Isolator / Converter
- Z201** Current Isolator / Converter - 5/10 Amps AC to voltage/current
- Z201-1A** Current Isolator / Converter - 1 Amp AC to voltage/current



Z170

- Z109PT** RTD Isolator / Converter
- Z109TC** Thermocouple Isolator / Converter
- Z104** Isolator / Converter - voltage/current to frequency
- Z111** Isolator / Converter - frequency to voltage/current
- Z170REG** Signal Duplicator
- Z113S** Alarm Threshold Relay - 1 Relay
- Z113D** Alarm Threshold Relay - 2 Relays
- Z113T** Alarm Threshold Relay - 3 Relays

CURRENT TRANSDUCER



T201

- T201** Loop Powered AC Current Transducer 5-40 Amps - 4/20 mA (with DIN Rail Clip)
- T201DC** Loop Powered DC Current Transducer 5-40 Amps - 4/20 mA (with DIN Rail Clip)
- T201DCH** AC/DC Current Transducer 50 Amps - 0-10V (with DIN Rail Clip)
- T201DC100** Loop Powered DC Current Transducer 100 Amps - 4/20 mA (with DIN Rail Clip)

TEMPERATURE TRANSMITTER/TRANSDUCER



- T120** 2 Wire Pt100/Ni100 Temperature Transmitter - Loop Powered
- T121** 2 Wire Universal Isolated Temperature Transducer - Loop Powered

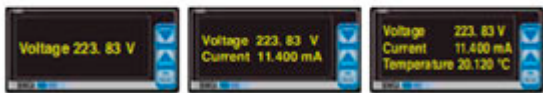
DISPLAYS

TECHNICAL INFORMATION



OPERATING VIEW MODE

In view mode the indicator displays the values of the quantities defined on the display list; it may view 1, 2 or 3 data for screen.



S401 OLED DISPLAY

The S401 is the new standard for indication with OLED display. Why use an expensive HMI when the S401 will perform many of the same functions for a lower cost.

The S401 has a very bright display of 70 cd/m² with a very high 128 x 64 pixel definition. The display also has a space saving design with dimensions of 96x48mm. It displays up to 30 measurements (float, integer, Boolean) and programming is possible via software or front key menu. Another advantage is reduced cabling with two RS485 MODBUS interfaces.

S401 DISPLAY



S401-L MODBUS RTU Display with 2.7" OLED Display, 10-40VDC, 19-28VAC, Master/Slave

Includes: 27 math functions, 20 readings from slave devices, 10 writings to slaved evices, alarm control on threshold

ENTRY LEVEL DISPLAYS



S315 Display

S315 4 Digit Loop-powered Display, 4-20mA Input, IP65

S311AK-4-L 4 Digit Display, voltage/current Input, IP65

COMPLETE DISPLAY SOLUTIONS



S311A-4-H

S311A-4-H Indicator/Totalizer with Universal Analog Input, 80-265 VAC, 4 Digit

S311A-4-H-O Indicator/Totalizer with Universal Analog Input, 80-265 VAC, 4 Digit, Optional Card



S311A-6-H-O

S311A-6-H Indicator/Totalizer with Universal Analog Input, 80-265 VAC, 6 Digit

S311A-11-H Indicator/Totalizer with Universal Analog Input, 80-265 VAC, 11 Digit

S311A-4-L Indicator/Totalizer with Universal Analog Input, 10-40VDC / 19-28VAC, 4 Digit

S311A-4-L-O Indicator/Totalizer with Universal Analog Input, 10-40VDC / 19-28VAC, 4 Digit, Opt. Card



S311D-4-H

S311A-6-L Indicator/Totalizer with Universal Analog Input, 10-40VDC / 19-28VAC, 6 Digit

S311A-11-L Indicator/Totalizer with Universal Analog Input, 10-40VDC / 19-28VAC, 11 Digit

S311D-4-H Indicator/Totalizer with Universal Digital Input, 80-265 VAC, 4 Digit

S311D-4-H-O Indicator/Totalizer with Universal Digital Input, 80-265 VAC, 4 Digit, Optional Card

S311D-4-L Indicator/Totalizer with Universal Digital Input, 10-40VDC / 19-28VAC, 4 Digit

S311D-4-L-O Indicator/Totalizer with Universal Digital Input, 10-40VDC / 19-28VAC, 4 Digit, Opt. Card

More Solutions Available - please contact us for further options

SHENLER

Shenler Electric (Zhejiang) Co. Ltd. was founded in 1985. Shenler is a leading industrial relay manufacturer and is one of the Top10 Relay brands. Shenler's focus on R & D, manufacturing and sales in the industrial relay sector, provide more than 50 series, with more than 1000 specifications of industry leading relay and socket products. From product development, parts production, mould development and injection moulding through to the final assembly steps, Shenler maintains a keen focus on quality production and continuous improvement.

CONTROL RELAYS

RNC SLIMLINE RELAYS



RNC1CO006
RNC1CO012
RNC1CO024
RNC1CO060
SNC05-E-A
SNC05-E-DR
SNC05-S-A
SNC05-S-DR
SN20B
SN20S

RNC Relay Module - 6VDC Coil - 6 Amp
RNC Relay Module - 12VDC Coil - 6 Amp
RNC Relay Module - 24VDC Coil - 6 Amp
RNC Relay Module - 60VDC Coil - 6 Amp
RNC Series Base for 6, 12, 24 VAC/DC Slimline Relays
RNC Series Base for 230VAC/DC Slimline Relays - Relay 60VDC
RNC Series Spring Clamp Base for 6,12, 24 VAC/DC Slimline Relays
RNC Series Spring Clamp Base for 230VAC/DC (60VDC) Relays
RNC Slimline Relay Series Cross Connection Bar - 20 Way - Orange
Shenler RNC Slimline Relay Partition Plate



RNC SINGLE POLE SLIMLINE RELAYS COMPLETE



RNC1CO012+SNC05-E-A
RNC1CO024+SNC05-E-A
RNC1CO060+SNC05-E-D
SN20B
SN20S

RNC Series Slimline Relay Complete - 12VAC/DC Coil - 6 Amp
RNC Series Slimline Relay Complete - 24VAC/DC Coil - 6 Amp
RNC Series Slimline Relay Complete - 230VAC/DC Coil - 6 Amp
RNC Slimline Relay Series Cross Connection Bar - 20 Way - Orange
Shenler RNC Slimline Relay Partition Plate

RFT SINGLE POLE RELAYS



RFT1CO012LT
RFT1CO024LT
RFT1CO524LT
RFT1CO730LT
SRU05-E+SR20T+SR2P
SRU05-ST+SR20T+SR2P
SR2P
SR2PP
SR08B

Single Pole Relay with Lockable Test Button & LED - 12VDC/12A
Single Pole Relay with Lockable Test Button & LED - 24VDC/12A
Single Pole Relay with Lockable Test Button & LED - 24VAC/12A
Single Pole Relay with Lockable Test Button & LED - 230VAC/12A
Single Pole RFT Relay Base with Lever
Push-In Type Single Pole RFT Relay Base with Lever
RFT Relay Series Marking Tag - White
RFT Relay Series Marking Tag - White - PRINTED
RFT Relay Series Linking Bar - 8 Way - Orange

RFT DOUBLE POLE RELAYS



RFT2CO012LT
RFT2CO024LT
RFT2CO048LT
RFT2CO524LT
RFT2CO615LT
RFT2CO730LT
SRU08-E+SR20T+SR2P
SRU08-ST+SR20T+SR2P
SR2P
SR2PP
SR08B

Double Pole Relay with Lockable Test Button & LED - 12VDC/8A
Double Pole Relay with Lockable Test Button & LED - 24VDC/8A
Double Pole Relay with Lockable Test Button & LED - 48VDC/8A
Double Pole Relay with Lockable Test Button & LED - 24VAC/8A
Double Pole Relay with Lockable Test Button & LED - 115VAC/8A
Double Pole Relay with Lockable Test Button & LED - 230VAC/8A
Double Pole RFT Relay Base with Lever
Push-in Type Double Pole RFT Relay Base with Lever
RFT Relay Series Marking Tag - White
RFT Relay Series Marking Tag - White - PRINTED
RFT Relay Series Linking Bar - 8 Way - Orange

CONTROL & POWER RELAYS

RKE DOUBLE POLE RELAYS



RKE2CO012LT	Double Pole Relay with Lockable Test Button & LED - 12VDC/7A
RKE2CO024LT	Double Pole Relay with Lockable Test Button & LED - 24VDC/7A
RKE2CO524LT	Double Pole Relay with Lockable Test Button & LED - 24VAC/7A
RKE2CO730LT	Double Pole Relay with Lockable Test Button & LED - 230VAC/7A
SKC08-E+SK36F+SK4P	RKE Series Double Pole Relay Base with Lever
SYF08A-E	RKE Series Double Pole Relay Base - Basic Series
SY36S	SYF Base Retaining Clip
SK4P	SKC Base Type Marking Tag - White
SK4PP	SKC Base Type Marking Tag - White - PRINTED

RKE FOUR POLE RELAYS



RKE4CO012LT	Four Pole Relay with Lockable Test Button & LED - 12VDC/5A
RKE4CO024LT	Four Pole Relay with Lockable Test Button & LED - 24VDC/5A
RKE4CO024LTA	Four Pole GOLD CONTACT Relay with Test Button & LED 24VDC/5A
RKE4CO524LT	Four Pole Relay with Lockable Test Button & LED - 24VAC/5A
RKE4CO524LTA	Four Pole GOLD CONTACT Relay with Test Button & LED 24VAC/5A
RKE4CO730LT	Four Pole Relay with Lockable Test Button & LED - 230VAC/5A
SKC14-E+SK36F+SK4P	RKE Series Four Pole Relay Base with Lever
SKC14-ST+SK36F+SK4P	RKE Series Push-In Type Four Pole Relay Base with Lever
SYF14A-E	RKE Series Four Pole Relay Base - Basic Series
SY36S	SYF Base Retaining Clip
SK4P	SKC Base Type Marking Tag - White
SK4PP	SKC Base Type Marking Tag - White - PRINTED

RKL SINGLE & DOUBLE POLE RELAYS



RKL1CO730LT	Single Pole Relay with LED Indication - 230VAC/16A
RKL2CO012LT	Double Pole Relay with LED Indication - 12VDC/10A
RKL2CO024LT	Double Pole Relay with LED Indication - 24VDC/10A
RKL2CO048LT	Double Pole Relay with LED Indication - 48VDC/10A
RKL2CO512LT	Double Pole Relay with LED Indication - 12VAC/10A
RKL2CO524LT	Double Pole Relay with LED Indication - 24VAC/10A
RKL2CO615LT	Double Pole Relay with LED Indication - 110VAC/10A
RKL2CO730LT	Double Pole Relay with LED Indication - 230VAC/10A
STB08-E	RKL Series Single and Double Pole Relay Base

RKL FOUR POLE RELAYS



RKL4CO012L	Four Pole Relay with LED Indication - 12VDC/10A
RKL4CO024L	Four Pole Relay with LED Indication - 24VDC/10A
RKL4CO524L	Four Pole Relay with LED Indication - 24VAC/10A
RKL4CO730L	Four Pole Relay with LED Indication - 230VAC/10A
STB14-E	RKL Series Four Pole Relay Base

POWER RELAYS & ACCESORIES

RGF POWER RELAYS



RGF1BU740L
RGF2BU740L

RGF Single Pole Power Relay with LED Indication - 230VAC/30A
RGF Double Pole Power Relay with LED Indication - 230VAC/25A

RELAY BASE ACCESORIES



AMD-D1(6-250VDC) **RFT & RKE Relay Series Protection Diode Module - A1+ - 6 to 250VDC**
AMD-RC(110/240V) **RFT & RKE Relay Series RC Module - 110VAC & 240VAC**
AMD-RC(6-24VAC) **RFT & RKE Relay Series RC Module - 6VAC to 24VAC**

SPS

Flexible and Rigid Busbar Systems for switchgear construction. Their main product groups are the Isoflexx laminated busbars and the very popular Ultraflexx braided flex type busbars with patented press-welded solid ends.

FLEXIBLE BUSBARS

ISOFLEXX BUSBARS

Isoflexx® is an insulated and laminated busbar system made to the highest technical standards. Isoflexx is made of several layered copper lamellas protected by a special high grade PVC insulation. The loose lamellas give the Isoflexx product the maximum available flexibility. This means that Isoflexx saves space and is fast and easy to install. The operating voltages are 1000Vac and 1500Vdc and the dielectric strength is 20kV/mm. Operating temperatures are -30°C to +105°C. UL certified.



Operating Current					
Values according to DIN 43671 for busbars in switchgear					
Heating* of busbar at an ambient temperature of 35 °C					
Product Code	Dimensions N x W x T	Cross Section mm ²	65 °C Δ=T 30K	85 °C Δ=T 50K Recommended value	105 °C Δ=T 70K
11311000	3x9x0.8	21.6	98	130	152
11311020	6x9x0.8	43.2	147	196	228
11311420	9x9x0.8	64.8	179	238	277
11311060	4x15.5x0.8	49.6	201	267	312
11311070	6x15.5x0.8	74.4	252	335	391
11311550	2x20x1	40	188	250	291
11311560	3x20x1	60	237	315	367
11311570	4x20x1	80	278	370	431
11311530	2x24x1	48	201	267	312
11311440	3x24x1	72	276	367	428
11311080	10x15.5x0.8	124	330	439	512
11311580	5x20x1	100	319	424	494
11311590	6x20x1	120	355	472	550
11311450	4x24x1	96	322	428	499
11311460	5x24x1	120	369	491	572
11311470	6x24x1	144	407	541	631
11311500	4x32x1	128	418	556	648
11311480	8x24x1	192	483	642	749
11311490	10x24x1	240	559	743	866
11311430	5x32x1	160	477	634	739
11311510	6x32x1	192	526	700	815
11311130	5x40x1	200	573	763	888
11311690	6x40x1	240	628	835	1112
11311520	8x32x1	256	623	829	966
11311390	10x32x1	320	721	959	1118
11311160	5x50x1	250	697	927	1080
11311680	6x50x1	300	762	1013	1349
11311150	10x40x1	400	850	1131	1318
11311180	10x50x1	500	1020	1357	1581
11311210	10x63x1	630	1180	1569	2089
11311240	10x80x1	800	1500	1995	2655
11311270	10x100x1	1000	1810	2407	3204

Notes: Isoflexx® dimensions: N is the number of lamella in each bar, W the bar width and T is the thickness of each lamella. When using 2 bars in parallel multiply by 1.72, 3 bars by 2.25.

*The heating of the busbar is dependant on current load, ambient temperature, method of installation and field of application. The above current ratings are to be used as guidelines only.

FLEXIBLE BUSBAR ACCESSORIES

ISOFLEXX FLAT CLAMPS

Isoflexx® Flat Clamps are suitable to connect flexible busbars without drilling. Can be fixed lengthways or on a 90° angle.



Product Code	Inner Dimensions A x B (mm)	Outer Dimensions C x D (mm)	Clamp Width E (mm)	Product Number
FAK 25x25	25 x 25	45 x 45	20	90010220
FAK 25x50	25 x 50	45 x 70	20	90010330
FAK 32x32	32 x 32	52 x 50	20	90010230
FAK 32x63	32 x 63	52 x 82	20	90010340
FAK 40x40	40 x 40	60 x 60	20	90010240
FAK 40x63	40 x 63	60 x 82	32	90010350
FAK 40x80	40 x 80	70 x 110	35	90010360
FAK 50x50	50 x 50	70 x 70	20	90010250

ISOFLEXX PLASTIC FIXING DEVICES

For the installation of Isoflexx® to DIN Rails of 35mm, The plastic fixing devices are halogen free, self-extinguishing, glass fibre reinforced polyamide. Type KSH51 is suitable for use with cable ties.



Product Code	Description	Product Number
KSH 50	Complete set	90080400
KSH 51	Only lower part - suitable for use with cable tie	90080410

ISOFLEXX DRILLING JIG

To drill Isoflexx® without any problems - different drilling jig models according to lamella width. Supplied with different drilling units.



Product Code	Width	Drill Hole (mm)	Product Number
BL 16	16 mm	6 / 8	90080100
BL 20	20 mm	8/10/12	90080110
BL 24	24 mm	8 / 10 / 12	90080120
BL 32	32 mm	10 / 12	90080130
BL 40	40 mm	10/12	90080140
BL 50	50 mm	10/12	90080150
BL 63	63 mm	10/12	90080160

ISOFLEXX TOOLS



To bend Isoflexx® by hand without any problems you can use the Twisting Tool model number 90090110 pictured on the left. To bend Isoflexx® you can also use the bench mounted tool 90090100 pictured on the right. Price on application.

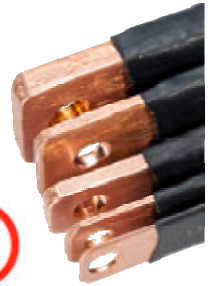


FLEXIBLE BUSBAR

ULTRAFLEXX FLEXIBLE BUSBARS



Ultraflexx® Flexible busbars are highly flexible connectors manufactured from flat copper braid. Unlike similar products Ultraflexx is press-welded with a special patented process that makes the ends a solid piece of copper. These solid ends can even be machined without any problems at all. This has the advantage of the lowest possible contact resistance. It also means that there is no chance of corrosion increasing the contact resistance over time. The operating voltages are 1000Vac and 1500Vdc and the dielectric strength is 20kV/mm. Operating temperatures are -55°C to +125°C. Ultraflexx is UL certified.



ULTRAFLEXX 25MM²

25mm² Ultraflexx has a recommended current rating of 160 Amps for single conductors or 260 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. One side has an 8.5mm hole and the other a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 25-150-8/10	20	1.4	150	163	62150523
ULFX 25-200-8/10	20	1.4	200	223	62151023
ULFX 25-250-8/10	20	1.4	250	272	62151523
ULFX 25-300-8/10	20	1.4	300	322	62151923
ULFX 25-350-8/10	20	1.4	350	372	62152323
ULFX 25-400-8/10	20	1.4	400	422	62152823
ULFX 25-450-8/10	20	1.4	450	472	62153323
ULFX 25-500-8/10	20	1.4	500	522	62153523
ULFX 25-550-8/10	20	1.4	550	572	62153823
ULFX 25-600-8/10	20	1.4	600	622	62154023
ULFX 25-650-8/10	20	1.4	650	672	62154523
ULFX 25-700-8/10	20	1.4	700	722	62155023
ULFX 25-800-8/10	20	1.4	800	822	62156023
ULFX 25-750-8/10	20	1.4	750	772	62155523
ULFX 25-850-8/10	20	1.4	850	872	62156523
ULFX 25-900-8/10	20	1.4	900	922	62156823
ULFX 25-950-8/10	20	1.4	950	972	62157523
ULFX 25-1000-8/10	20	1.4	1000	1022	62158023

FLEXIBLE BUSBAR

ULTRAFLEXX 50MM²

50mm² Ultraflexx has a recommended current rating of 250 Amps for single conductors or 430 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. One side has an 8.5mm hole and the other a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 50-200-8/10	20	2.9	200	225	62251023
ULFX 50-250-8/10	20	2.9	250	275	62251523
ULFX 50-300-8/10	20	2.9	300	325	62251923
ULFX 50-350-8/10	20	2.9	350	375	62252323
ULFX 50-400-8/10	20	2.9	400	425	62252823
ULFX 50-450-8/10	20	2.9	450	475	62253323
ULFX 50-500-8/10	20	2.9	500	525	62253523
ULFX 50-550-8/10	20	2.9	550	575	62253823
ULFX 50-600-8/10	20	2.9	600	625	62254023
ULFX 50-650-8/10	20	2.9	650	675	62254523
ULFX 50-700-8/10	20	2.9	700	725	62255023
ULFX 50-800-8/10	20	2.9	800	825	62256023
ULFX 50-1000-8/10	20	2.9	1000	1025	62258023

Further options available on request

ULTRAFLEXX 100MM²

100mm² Ultraflexx has a recommended current rating of 390 Amps for single conductors or 680 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. Both sides have a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 100-200-10	20	5.9	200	225	62551033
ULFX 100-250-10	20	5.9	250	275	62551533
ULFX 100-300-10	20	5.9	300	325	62551933
ULFX 100-350-10	20	5.9	350	375	62552333
ULFX 100-400-10	20	5.9	400	425	62552833
ULFX 100-450-10	20	5.9	450	475	62553333
ULFX 100-500-10	20	5.9	500	525	62553533
ULFX 100-550-10	20	5.9	550	575	62553833
ULFX 100-600-10	20	5.9	600	625	62554033
ULFX 100-650-10	20	5.9	650	675	62554533
ULFX 100-700-10	20	5.9	700	725	62555033
ULFX 100-800-10	20	5.9	800	825	62556033
ULFX 100-1000-10	20	5.9	1000	1025	62558033

Further options available on request

ULTRAFLEXX 120MM²

120mm² Ultraflexx has a recommended current rating of 450 Amps for single conductors or 780 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. Both sides have a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 120-200-10	32	4.4	200	230	62651033
ULFX 120-300-10	32	4.4	300	330	62651933
ULFX 120-350-10	32	4.4	350	375	62552333
ULFX 120-400-10	32	4.4	400	430	62652833
ULFX 120-450-10	32	4.4	450	475	62553333
ULFX 120-500-10	32	4.4	500	530	62653533
ULFX 120-550-10	32	4.4	550	580	62653833
ULFX 120-600-10	32	4.4	600	630	62654033
ULFX 120-650-10	32	4.4	650	680	62654533
ULFX 120-700-10	32	4.4	700	730	62655033
ULFX 120-800-10	32	4.4	800	830	62656033
ULFX 120-1000-10	32	4.4	1000	1030	62658033

Further options available on request

ULTRAFLEXX 240MM²

240mm² Ultraflexx has a recommended current rating of 700 Amps for single conductors or 1150 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. Both sides have a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 240-200-10	32	8.9	200	230	62851033
ULFX 240-300-10	32	8.9	300	330	62851933
ULFX 240-350-10	32	8.9	350	380	62852333
ULFX 240-400-10	32	8.9	400	430	62852833
ULFX 240-450-10	32	8.9	450	475	62853333
ULFX 240-500-10	32	8.9	500	530	62853533
ULFX 240-550-10	32	8.9	550	580	62853833
ULFX 240-600-10	32	8.9	600	630	62854033
ULFX 240-650-10	32	8.9	650	680	62854533
ULFX 240-700-10	32	8.9	700	730	62855033
ULFX 240-750-10	32	8.9	750	780	62855533
ULFX 240-800-10	32	8.9	800	830	62856033
ULFX 240-1000-10	32	8.9	1000	1030	62858033

Further options available on request



EARTH BRAIDS

MBS EARTH BRAIDS - TINNED



The MBS range of earth braids from SPS are one-of-a-kind as the ends are press-welded in a special process. This press-welding process has a world-wide patent and the braids themselves are made of highly flexible flat tinned copper material.

In switchgear with electronic devices high frequency grounding is of high importance. The main factors for earthing braids are low DC resistance and low impedance. Flat braided materials have an impedance many times lower than similar sized round cables and so are much more suitable for high frequency EMC grounding. The SPS MBS Earthing Braids also have a low transition resistance due to the special press-welding process that only SPS has available.

Product Code	Length (mm)	Hole Size	Cross Section (mm ²)	Current Amps	Part Number
MBS 6-150-6	150	M6	6	50	33015011
MBS 6-200-6	200	M6	6	50	33020011
MBS 10-200-6	200	M6	10	80	33120011
MBS 10-300-6	300	M6	10	80	33130011
MBS 16-100-6	100	M6	16	120	33210011
MBS 16-150-6	150	M6	16	120	33215011
MBS 16-200-6	200	M6	16	120	33220011
MBS 16-300-6	300	M6	16	120	33230011
MBS 16-100-8	100	M8	16	120	33210022
MBS 16-150-8	150	M8	16	120	33215022
MBS 16-200-8	200	M8	16	120	33220022
MBS 16-250-8	250	M8	16	120	33225022
MBS 16-300-8	300	M8	16	120	33230022
MBS 16-500-8	500	M8	16	120	33250022
MBS 25-200-10	200	M10	25	150	33320033
MBS 25-250-10	250	M10	25	150	33325033
MBS 25-300-10	300	M10	25	150	33330033
MBS 50-200-10	200	M10	50	250	33620033
MBS 50-250-10	250	M10	50	250	33625033
MBS 50-300-10	300	M10	50	250	33630033
MBS 50-250-12	250	M12	50	250	33625044

Further options available on request

TELE

With over 40 years' experience, TELE is a leading European producer of timers and sensing and monitoring relays. Having completely automated its manufacturing plants, TELE has created a competitive edge in product quality and lower costs and now supplies many leading companies such as Phoenix, ABB, Rockwell and Schrack.

TIME RELAYS - GAMMA SERIES

FUNCTIONS



TIMER MODELS

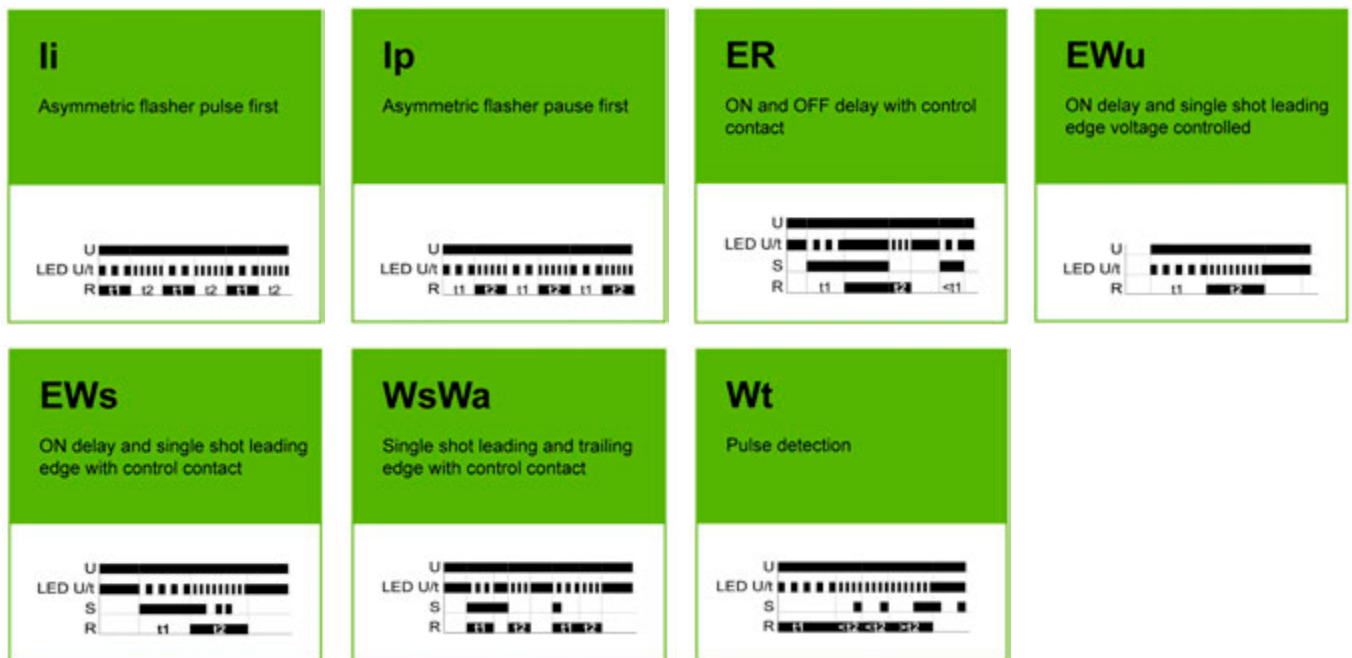


Model	G2ZMF11 24-240VAC/DC	G2ZMF11 **	G2ZM20
Functions	E, R, Es, Bi, Bp, Wa, Ws, Wu	E, R, Es, Bi, Bp, Wa, Ws, Wu	E, R, Es, Bi, Bp, Wa, Ws, Wu
Contacts	2 C/O Timed & Instantaneous	2 C/O Timed & Instantaneous	2 C/O Timed
Voltage	24 - 240VAC/DC	12 - 440VAC Select TR2 Voltage Module	12 - 240VAC/DC
Time Range	50 msec - 30 days 16 ranges	50 msec - 30 days 16 ranges	50 msec - 100 hours 7 ranges
Remote Pot (Model R2) Connection	Yes	Yes	No
Suitable for Frequency Converters	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide

** Please Note: TR2 Voltage Module needs to be selected for model with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

TIME RELAYS - GAMMA SERIES

FUNCTIONS



TIMER MODELS

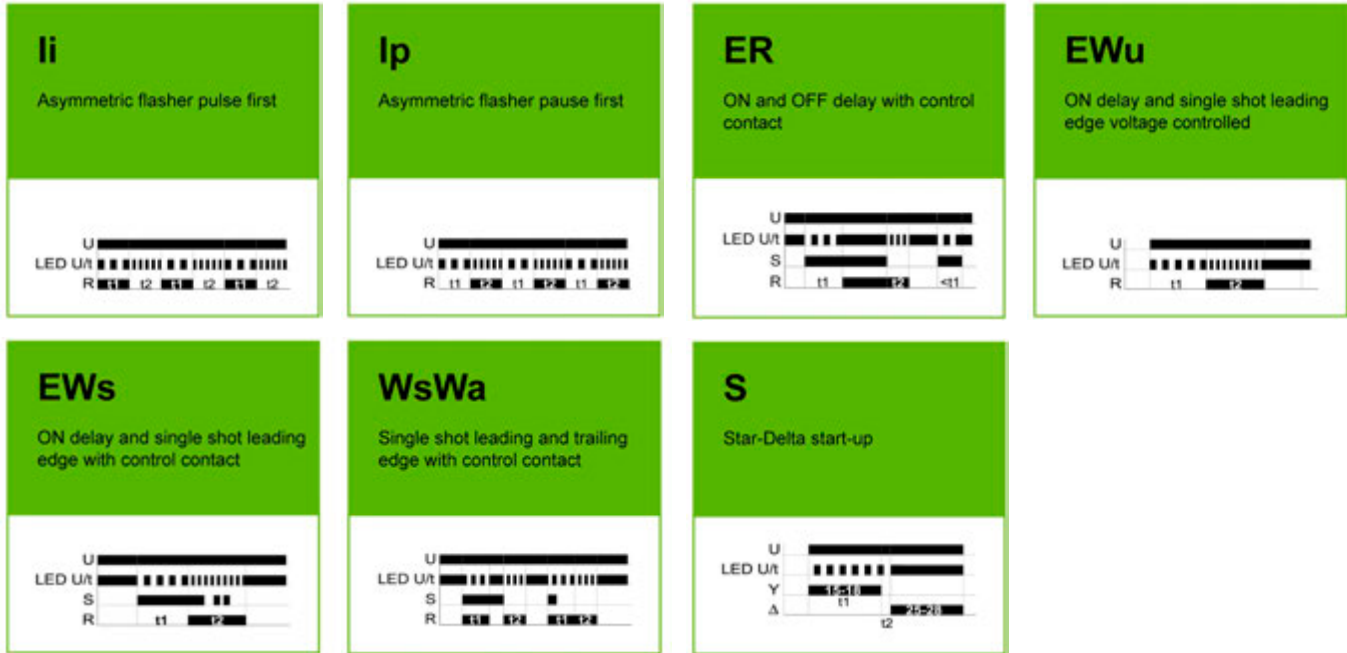


Model	G2ZIF20 24-240VAC/DC	G2ZIF20 **	R2
Function(s)	li, lp, ER, EWu, EWs, WsWa, Wt	li, lp, ER, EWu, EWs, WsWa, Wt	
Type	Cycling Timer	Cycling Timer	Panel Mounted Potentiometer
Contacts/Ohms	2 C/O Timed	2 C/O Timed	1M Ω
Voltage/IP Rating	24 - 240VAC/DC	12 - 440VAC	IP64
	Select TR2 Voltage Module		
Time Range	50 msec - 10 hours 10 ranges	50 msec - 10 hours 10 ranges	
Remote Pot (Model R2)	Yes	Yes	
Use with Frequency Converters	Yes	Yes	
Size	22.5mm wide	22.5mm wide	22.5mm \varnothing

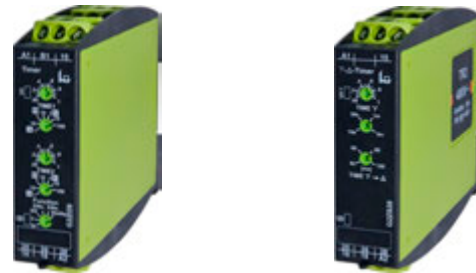
** Please Note: TR2 Voltage Module needs to be selected for model with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

TIME RELAYS - GAMMA SERIES

FUNCTIONS



TIMER MODELS

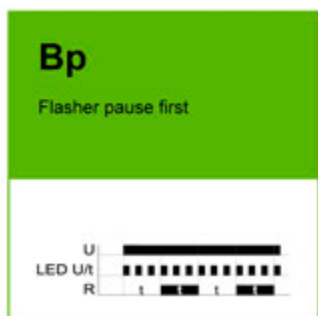
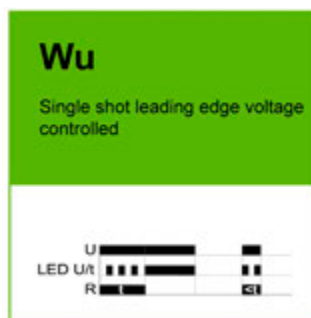
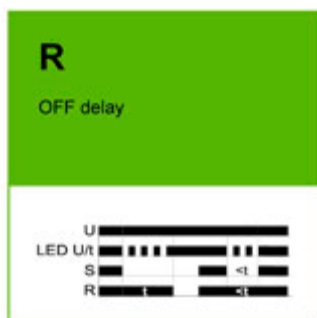
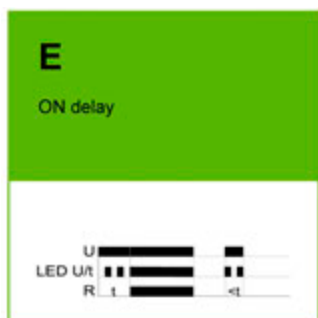


Model	G2Z120	G2ZS20
Functions	li, lp, ER, EWu, EWs, WsWa	Star/Delta Timer
Type	Cycling Timer	
Contacts	2 C/O Timed	2 C/O Timed
Voltage	12 - 240VAC/DC	12 - 400VAC Select TR2 Voltage Module
Time Range	50 msec - 100 hours 7 ranges	Time Y - 500ms to 3min Time Yör - 40ms to 100ms
Suitable for Frequency Converters	Yes	Yes
Size	22.5mm wide	22.5mm wide

** Please Note: TR2 Voltage Module needs to be selected for model with ** and is fitted before dispatch.
The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

TIME RELAYS - VEO SERIES

FUNCTIONS



TIMER MODELS

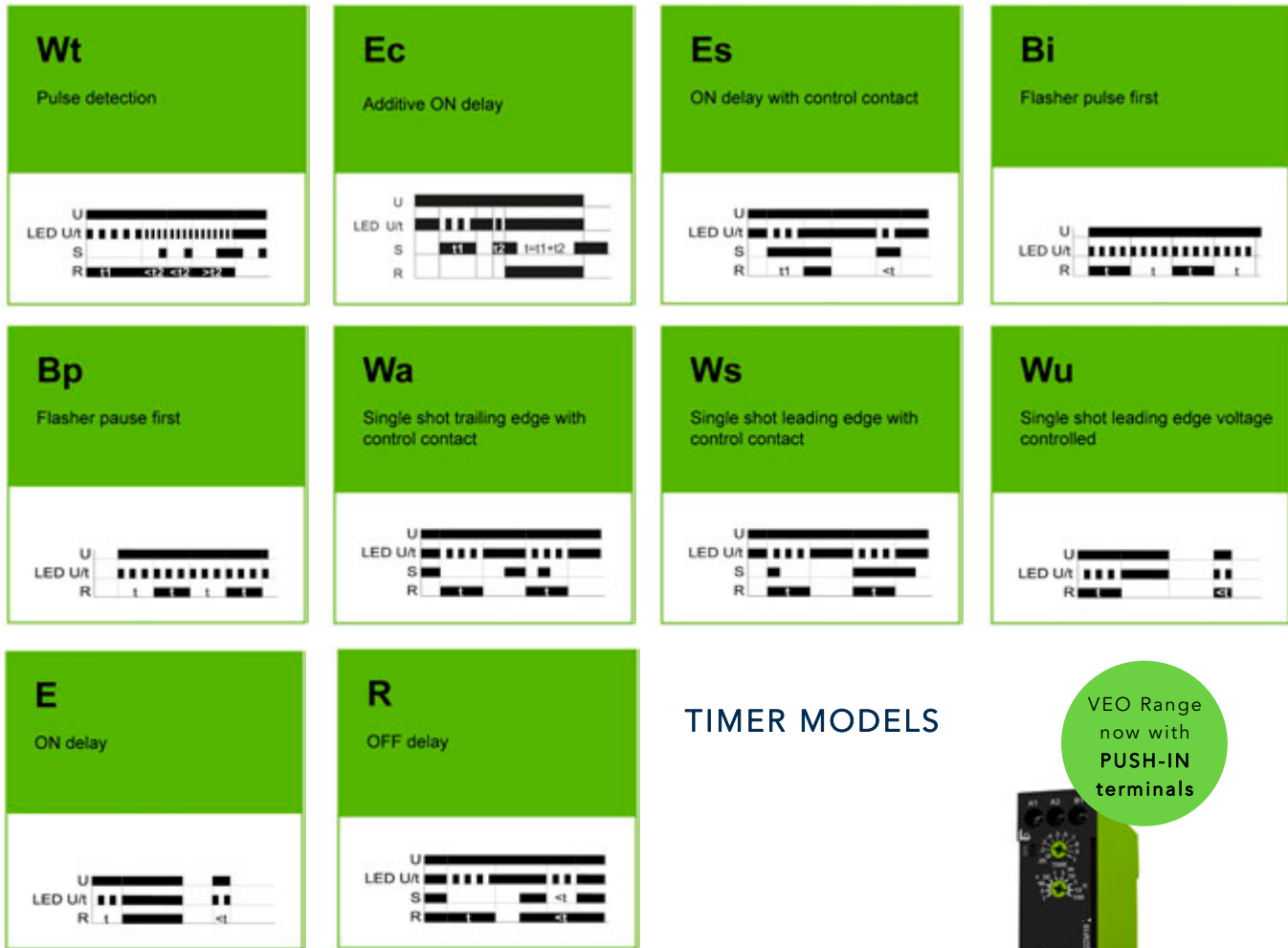


VEO Range
now with
PUSH-IN
terminals

Model	V2ZE10	V2ZR10	V2ZQ10
Model PUSH-IN Type			V2ZQ10P
Functions	ON Delay Timer (E)	OFF Delay Timer (R)	E, R, Wu, Bp
Contacts	1 C/O Timed	1 C/O Timed	1 C/O Timed
Voltage	24 - 240VAC/DC	24 - 240VAC/DC	24 - 240VAC/DC
Time Range	50 msec - 100 hours	50 msec - 100 hours	50 msec - 100 hours
	10 ranges	10 ranges	10 ranges
Response Time	150ms	150ms	150ms
Operating Temperature	-25 - +60 °C	-25 - +60 °C	-25 - +60 °C
Suitable for Frequency Converters	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide

TIME RELAYS - VEO SERIES

FUNCTIONS



TIMER MODELS

VEO Range
now with
PUSH-IN
terminals



Model	V2ZM10	V2ZM10-A
Model PUSH-IN Type	V2ZM10P	
Functions	Wt, Ec, Es, Bi, Bp, Wa, Ws, Wu, E, R	Wt, Ec, Es, Bi, Bp, Ws, Wa, E, R, EWu (not shown)
Contacts	1 C/O Timed	1 C/O Timed
Voltage	12 - 240VAC/DC	12 - 240VAC/DC
Time Range	50 msec - 100 hours - 10 ranges	50 msec - 100 hours - 10 ranges
Response Time	150ms	150ms
Operating Temperature	-25 - +60 °C	-25 - +60 °C
Suitable for Frequency Converters	Yes	Yes
Size	22.5mm wide	22.5mm wide

TIME RELAYS - VEO SERIES

FUNCTIONS



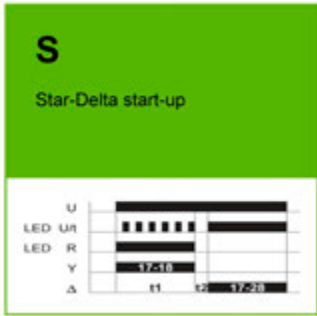
TIMER MODELS



Model	V2Z110	V2ZA10	V2ZS20
Model PUSH-IN Type	V2ZI10P		
Functions	li, lp	E, A, nWa, nWu, nWuWa	Star/Delta Timer (S)
Contacts	1 C/O Timed	1 C/O Timed	2 N/O Contacts
Voltage	12 - 240VAC/DC	24 - 240VAC/DC	12 - 240VAC/DC
Time Range	50 msec - 100 hours	100 msec - 3 min	Time Y - 50 msec to 3min
Features	10 ranges	4 ranges (no Aux)	Time Y→Δ - 40ms to 100ms
Response Time	150ms	150ms	150ms
Operating Temperature	-25 - +60 °C	-25 - +60 °C	-25 - +60 °C
Suitable for Frequency Converters	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide

TIME RELAYS - VEO SERIES

FUNCTIONS



TIMER MODELS



Model	V2ZS20-E
Functions	Star/Delta Timer (S)
Contacts	2 N/O Contacts
Voltage	12 - 240VAC/DC
Time Range	Time Y - 3sec to 1min
Response Time	150ms
Operating Temperature	-25 - +60 °C
Suitable for Frequency Converters	Yes
Size	22.5mm wide

TIME RELAYS - ENYA SERIES

FUNCTIONS



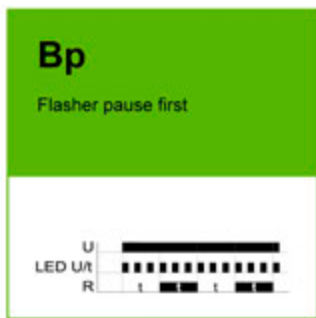
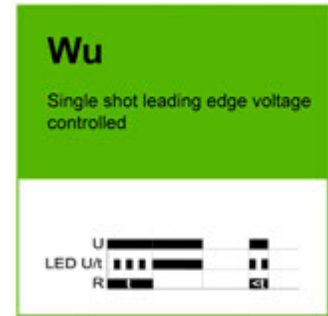
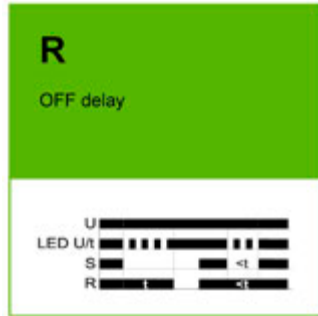
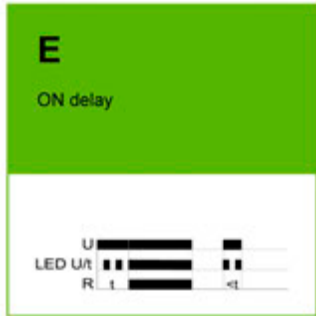
TIMER MODELS



Model	E1ZM10 12-240V	E1ZM10 24-240V	E3ZM20
Functions	E, R, Es, Wu, Bp, Wa, Ws	E, R, Es, Wu, Bp, Wa, Ws	E, R, Es, Wu, Bp, Wa, Ws
Voltage	12 - 240VAC/DC	24 - 240VAC/DC	12 - 240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed	2 C/O Timed
Contact Rating	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)
Time Range	50 msec - 100 hours	50 msec - 100 hours	50 msec - 100 hours
	7 ranges	7 ranges	7 ranges
Overvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)	III (IEC 60664-1)
Rated Surge Voltage	4kV	4kV	4kV
Suitable for Frequency Converters	No	No	No
Size	17.5mm wide	17.5mm wide	35mm wide

TIME RELAYS - ENYA SERIES

FUNCTIONS



TIMER MODELS



Model	E1ZMQ10	E1Z1E10	E1Z1ER10
Functions	E, R, Wu, Bp	ON Delay Timer - E	ON & OFF Delay with Control - ER
Voltage	24 - 240VAC/DC	24 - 240VAC/DC	24 - 240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed	1 C/O Timed
Contact Rating	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)
Time Range	50 msec - 100 hours	50 msec - 100 hours	50 msec - 100 hours
	7 ranges	7 ranges	7 ranges
Oversvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)	III (IEC 60664-1)
Rated Surge Voltage	4kV	4kV	4kV
Suitable for Frequency Converters	No	No	No
Size	17.5mm wide	17.5mm wide	17.5mm wide

TIME RELAYS - ENYA SERIES

FUNCTIONS



TIMER MODELS



Model	E1ZMW10	E1ZMWt10
Functions	E, R, WsWa, Wu, Wa, Ws, Wt	E, R, Ws, Wa, Wtf, Wto, Wt
Voltage	24 - 240VAC/DC	24 - 240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed
Contact Rating	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)
Time Range	50 msec - 100 hours	50 msec - 100 hours
	7 ranges	7 ranges
Overvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)
Rated Surge Voltage	4kV	4kV
Suitable for Frequency Converters	No	No
Size	17.5mm wide	17.5mm wide

TIME RELAYS - ENYA SERIES

FUNCTIONS



TIMER MODELS



Model	E1Z1R10	E1Z110	E3Z120
Functions	OFF Delay Timer - R	li, lp	li, lp, ER, Ewu, Ews, WsWa, Wt
Voltage	24 - 240VAC/DC	12 - 240VAC/DC	12 - 240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed	2 C/O Timed
Contact Rating	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)	2000V (8A - 250VAC)
Time Range	50 msec - 100 hours 7 ranges	50 msec - 100 hours 7 ranges	50 msec - 100 hours 7 ranges
Oversoltage Category	III (IEC 60664-1)	III (IEC 60664-1)	III (IEC 60664-1)
Rated Surge Voltage	4kV	4kV	4kV
Suitable for Frequency Converters	No	No	No
Size	17.5mm wide	17.5mm wide	35mm wide

TIME RELAYS - KAPPA SERIES

FUNCTIONS



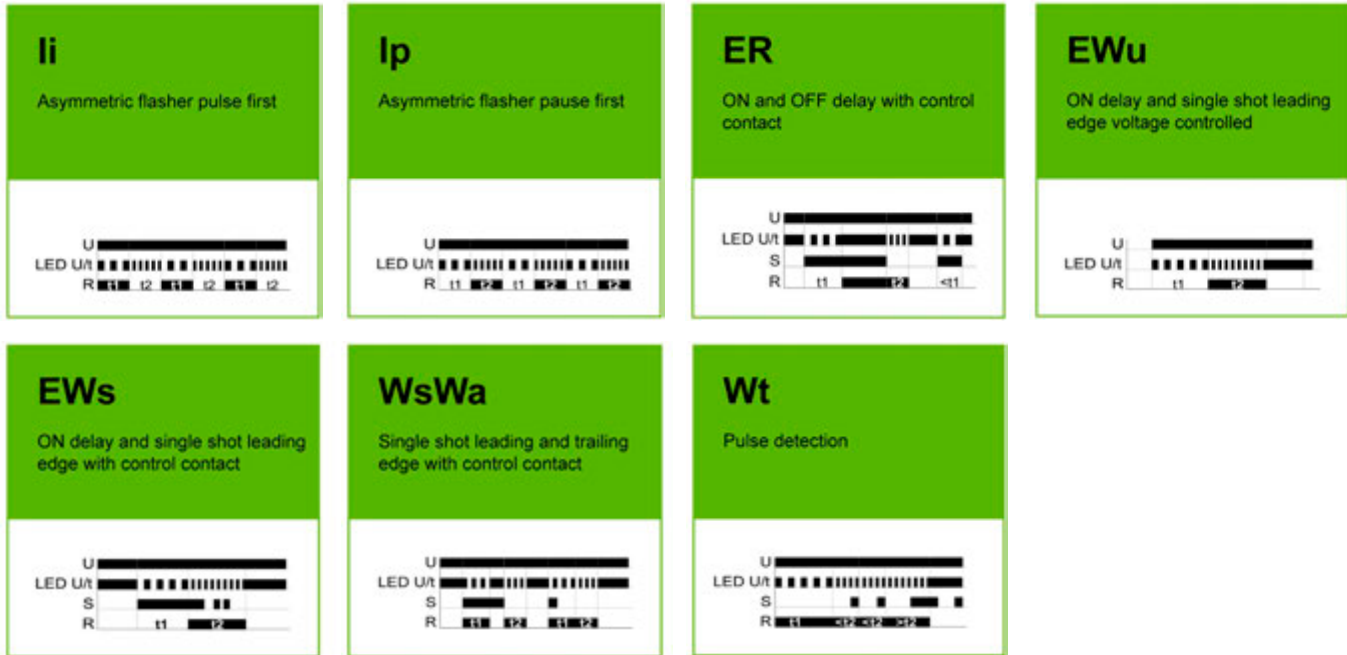
TIMER MODELS



Model	R11X	K3ZM20
Functions	11 Pin Base	E, R, Es, Wu, Bp, Wa, Ws
Voltage	300VAC	12 - 240VAC/DC
Contacts / Application	Panel / DIN Mount	2 C/O Timed
Contact Rating		2000VA (8A - 250VAC)
Time Range		50 msec - 100 hours 7 ranges
Overvoltage Category		III (IEC 60664-1)
Rated Surge Voltage		4kV
Suitable for Frequency Converters		No
Size	38mm wide	38mm wide

TIME RELAYS - KAPPA SERIES

FUNCTIONS



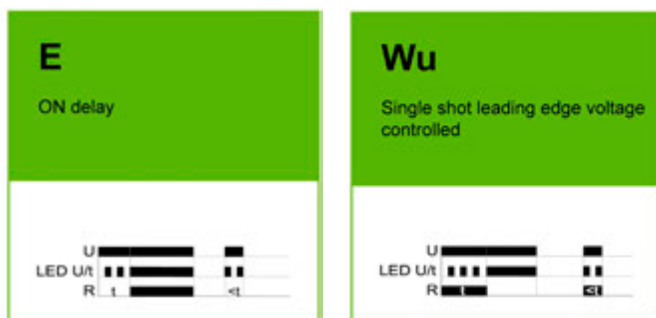
TIMER MODELS



Model	R11X	K3ZI20
Functions	11 Pin Base	li, lp, ER, Ewu, Ews, WsWa, Wt
Voltage	300VAC	12 - 240VAC/DC
Contacts / Application	Panel / DIN Mount	2 C/O Timed
Contact Rating		2000V (8A - 250VAC)
Time Range		50 msec - 100 hours 7 ranges
Overvoltage Category		III (IEC 60664-1)
Rated Surge Voltage		4kV
Suitable for Frequency Converters		No
Size	38mm wide	38mm wide

TIME RELAYS - RONDO SERIES

FUNCTIONS



TIMER MODELS



Model	SRE2-10S	SRE2-1M	SRW2-10S
Functions	ON Delay Timer - E	ON Delay Timer - E	Wu
Voltage	24VDC	24VDC	24VDC
Contacts	Transistor Switching	Transistor Switching	Transistor Switching
Contact Rating	6W (200mA/30V)	6W (200mA/30V)	6W (200mA/30V)
Time Range	1s - 10s	6s - 1min	1s - 10s
Overvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)	III (IEC 60664-1)
IP Rating	IP64	IP64	IP64
Rated Surge Voltage	4kV	4kV	4kV
Suitable for Frequency Converters	No	No	No
Size	22.5mm Hole	22.5mm Hole	22.5mm Hole

TIME RELAYS - COMBI SERIES

FUNCTIONS



TIMER MODELS



Model	ES9	ES12	Com3T
Functions	8 Pin Octal Base	11 Pin Octal Base	E, R, Es, Bi, Bp, Wa, Ws, Wu
Voltage	300VAC	300VAC	24 - 240VAC/DC
Contacts	2 C/O Timed	3 C/O Timed	
Contact Rating	Up to 10A with suitable Relay	Up to 10A with suitable Relay	Up to 10A with suitable Relay
Time Range			50 msec - 10 days 8 ranges
Suitable for Frequency Converters			No
Size	38mm wide	38mm wide	38mm wide

Please Note: The ES9 Base is suitable with any 8 Pin Octal Relay and the ES12 is suitable for any 11 Pin Octal Relay. Please contact us for options available.

TIME RELAYS - FRONT SERIES

FUNCTIONS



TIMER MODELS

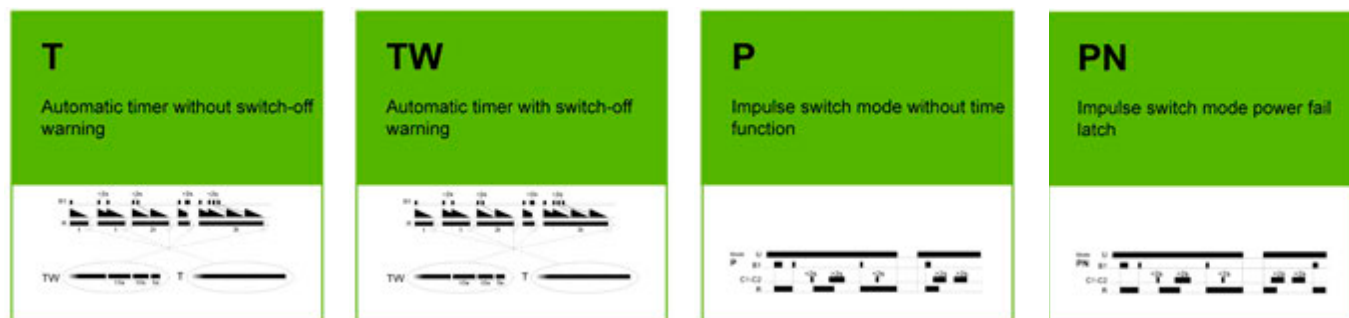


Model	TVC11	FSM10/24VAC/DC	FSM10/110-240VAC
Functions	11 Pin Octal Base	E, R, Es, Bi, Wu, Bp, Wa, Ws	E, R, Es, Bi, Wu, Bp, Wa, Ws
Voltage	300VAC	24VAC/DC	110 - 240VAC
Contacts/Application	Panel Mounting	1 C/O Timed	1 C/O Timed
Contact Rating		1250VA (5A - 250VAC)	1250VA (5A - 250VAC)
Time Range		1 msec - 1000 hours 8 ranges	1 msec - 1000 hours 8 ranges
Display		LCD	LCD
Indicators		Relay Status, Reset, Lock	Relay Status, Reset, Lock
Suitable for Frequency Converters		No	No
Size	45mm wide	45mm wide	45mm wide

Please Note: For DIN Rail Mounting of the FSM product range we recommend the R11X 11 Pin Octal Base.

LIGHT CONTROL - STAIRCASE LIGHTING

FUNCTIONS



MODELS

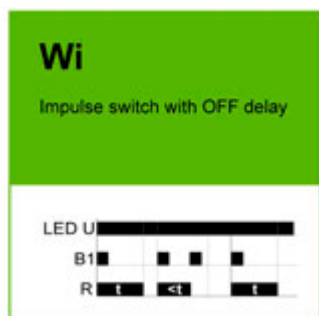


Model	E1ZTP	E1ZTPO	E1ZTPNC
Functions	TW, P, 1, 0	T, P, 1, 0	T, TW, P, PN, 1, 0
Voltage	230VAC	230VAC	230VAC
Contacts	1 C/O	1 C/O	1 C/O
Contact Rating	16A (80A Inrush - 20ms)	16A (80A Inrush - 20ms)	16A (80A Inrush - 20ms)
Time Ranges	0.5 - 12 min	0.5 - 12 min	0.5, 2, 4, 6, 8, 10, 12 min
Pushbutton Glowlamp Load	100mA	100mA	100mA
Low Switching Noise	Yes	Yes	Yes
Additional Control Input	No	No	Yes
Size	17.5mm wide	17.5mm wide	17.5mm wide

Please Note: Function 1 is permanently ON and Function 0 is permanently OFF

LIGHT CONTROL - STAIRCASE LIGHTING

FUNCTIONS



MODELS



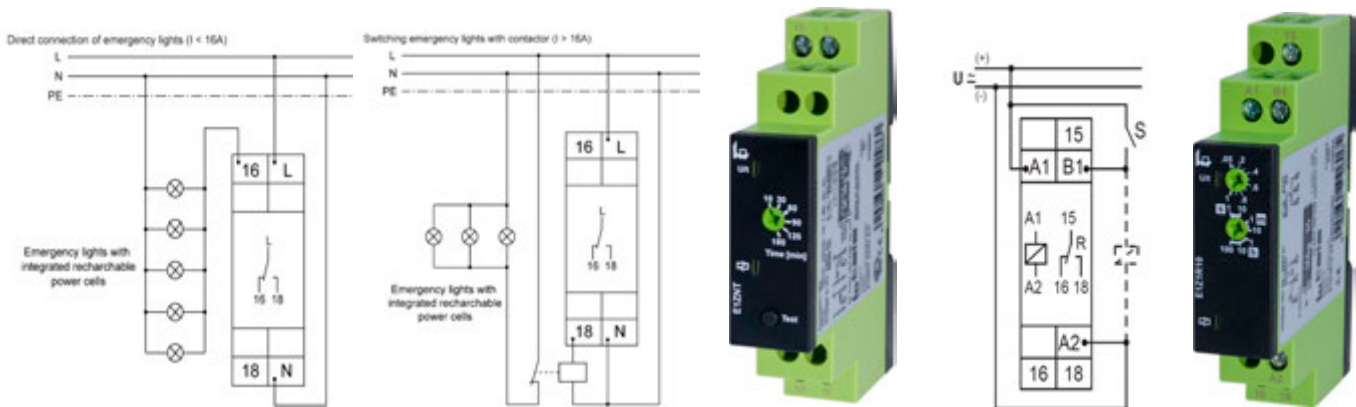
Model	E1ZWI	E1K	E3K
Functions	Impulse switch with OFF Delay	Coupling Relay	Coupling Relay
Voltage	230VAC	24-230VAC/DC	24-230VAC/DC
Contacts	1 C/O	1 C/O	2 C/O
Contact Rating	16A (80A Inrush - 20ms)	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)
Time Ranges	6,10,20,30,40,50,60min	N/A	N/A
Pushbutton Glowlamp Load	N/A	N/A	N/A
Low Switching Noise	Yes	Yes	Yes
Additional Control Input	N/A	No	Yes
Size	17.5mm wide	17.5mm wide	17.5mm wide

LIGHT CONTROL - EMERGENCY LIGHTING

FUNCTIONS



E1ZNT CONNECTION DIAGRAMS



Model	E1ZNT	E1Z1R10
Functions	Emergency Light Testing (Ws)	External Input Emergency Light Testing - OFF Delay (R)
Features	Integrated Test Push Button	External Input
Start Test / Activate	Press Push Button < 2 sec	External Input
Stop Test / Deactivate	Press Push Button > 2 sec	External Input
Voltage	230VAC	24-240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed
Contact Rating (Direct - L&16)	16A (80A Inrush - 20ms)	
Contact Rating (Contactor - L&18)	1250VA (5A - 250VAC)	2000VA (8A - 250VAC)
Indication	Green/Yellow LED	Green/Yellow LED
Time Settings	10, 30, 60, 90, 120, 180 min	50 msec - 100 hours
Size	17.5mm wide	17.5mm wide

VOLTAGE MONITORING - GAMMA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

VOLTAGE MONITORING MODELS



Model	G4PM690VSYL20**	G4PM500VSYL20**
Functions	Under, Under+Sequence, Window, Window+Sequence	Under, Under+Sequence, Window, Window+Sequence
Contacts	2 C/O	2 C/O
Measuring Voltage	3 Phase - 400/690VAC	3 Phase - 500VAC
Control Voltage	12 - 500VAC**	12 - 500VAC**
Tripping Delay / Fault Latch	0.1 - 10 sec / Yes	0.1 - 10 sec / Yes
Asymmetry Monitoring	5 - 25% or OFF	5 - 25% or OFF
Suitable for Frequency Converters	Yes	Yes
Suitable for Motor Applications	Yes	Yes
Size	45mm wide	45mm wide

** Please Note that a TR3 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR3 Module. All TR3 Voltage Modules are listed in the Accessories Section.

VOLTAGE MONITORING - GAMMA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

VOLTAGE MONITORING MODELS



Model	G2PM400VSY20 24-240V	G2PM400VSY20**	G2PM400VSY10**
Functions	Under, Under+Sequence, Window, Window+Sequence	Under, Under+Sequence, Window, Window+Sequence	Under, Under+Sequence, Window, Window+Sequence
Contacts	2 C/O	2 C/O	1 C/O
Measuring Voltage	3 Phase - 400VAC	3 Phase - 400/VAC	3 Phase - 400VAC
Control Voltage	24 - 240VAC/DC	12 - 440VAC**	12 - 440VAC**
Tripping Delay	0.1 - 10 sec	0.1 - 10 sec	0.1 - 10 sec
Asymmetry Monitoring	5 - 25% or OFF	5 - 25% or OFF	5 - 25% or OFF
Suitable for Frequency Converters	Yes	Yes	Yes
Suitable for Motor Applications	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

VOLTAGE MONITORING - GAMMA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

VOLTAGE MONITORING MODELS



Model	G2PM230VSY20 24-240V	G2PM230VSY10**	G2YM400VL20**
Functions	Under, Under+Sequence, Window, Window+Sequence	Under, Under+Sequence, Window, Window+Sequence	Under, Under+Sequence, Window, Window+Sequence
Contacts	2 C/O	1 C/O	2 C/O
Measuring Voltage	3 Phase - 230VAC	3 Phase - 230VAC	3 Phase - 400VAC
Control Voltage	24 - 240VAC/DC	12 - 440VAC**	12 - 440VAC**
Tripping Delay / Fault Latch	0.1 - 10 sec / No	0.1 - 10 sec / No	0.1 - 10 sec / Yes
Asymmetry Monitoring	5 - 25% or OFF	5 - 25% or OFF	No
Suitable for Frequency Converters	Yes	Yes	Yes
Suitable for Motor Applications	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

VOLTAGE & FREQUENCY MONITORING - GAMMA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

VOLTAGE MONITORING MODELS



Model	G2PF400VS02	G2FW50HzYFA02**	G2FW400VL20 24-240V
Functions	Phase Failure & Sequence Monitoring	Voltage & Frequency Monitoring - 50Hz	Frequency Monitoring 50Hz or 60Hz Systems
Contacts	2 C/O	2 C/O	2 C/O
Measuring Voltage	3 Phase - 400VAC	400VAC	110VAC - 400VAC
Control Voltage	400VAC	12 - 440VAC**	24 - 240VAC/DC
Tripping Delay / Fault Latch / Start-up Delay	No	Fixed <200msec / No / 30 sec	0.1 - 10 sec / Yes / 0 - 10 sec
Asymmetry Monitoring	Fixed - 30%	No	No
Suitable for Frequency Converters	Yes	Yes	Yes
Suitable for Motor Applications	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

VOLTAGE MONITORING - GAMMA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

OVER

The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

VOLTAGE MONITORING MODELS



Model	G2UM300VL10**	G2UM300VL20 24-240V	G2UM10VL20 24-240V
Functions	Under, Over, Window	Under, Over, Window	Under, Over, Window
Contacts	2 C/O	2 C/O	2 C/O
Measuring Voltage	Single Phase - 30V/60V/300V AC/DC	Single Phase - 30V/60V/300V AC/DC	Single Phase - 60mV/150mV/10V AC/DC
Control Voltage	24 - 240VAC/DC	24 - 240VAC/DC	24 - 240VAC/DC
Tripping Delay / Fault Latch / Start-up Delay	0.1 - 10 sec / Yes / 0 - 10 sec	0.1 - 10 sec / Yes / 0 - 10 sec	0.1 - 10 sec / Yes / 0 - 10 sec
Asymmetry Monitoring	No	No	No
Suitable for Frequency Converters	Yes	Yes	Yes
Suitable for Motor Applications	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

VOLTAGE & FREQUENCY MONITORING - GAMMA SERIES

FUNCTIONS

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

VOLTAGE MONITORING MODELS

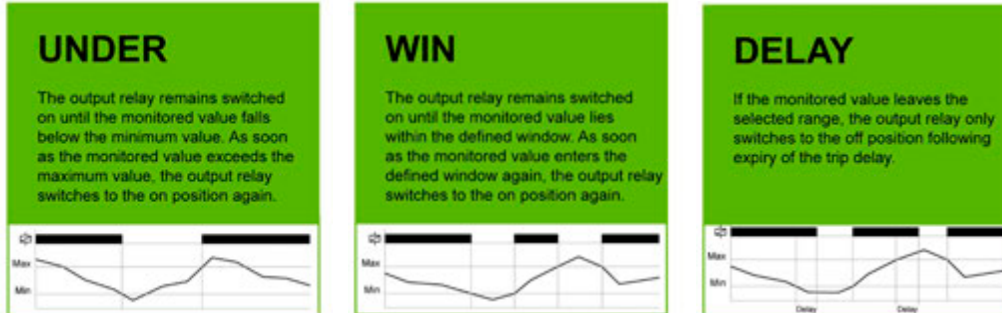


Model	G2UW300V10**
Functions	Window
Contacts	2 C/O
Measuring Voltage	Single Phase - 30V/60V/300V AC/DC
Control Voltage	24 - 240VAC/DC
Tripping Delay/Fault Latch/Start-up Delay	0.1 - 10 sec / Yes / 0 - 10 sec
Asymmetry Monitoring	No
Suitable for Frequency Converters	Yes
Suitable for Motor Applications	Yes
Size	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

VOLTAGE MONITORING - VEO SERIES

FUNCTIONS



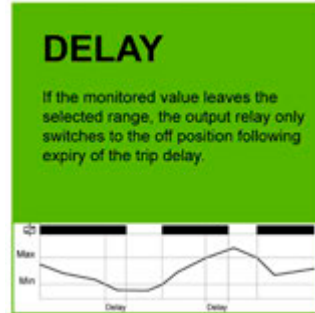
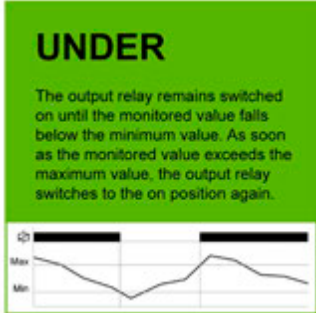
VOLTAGE MONITORING MODELS



Model	V2PM400Y/230VS10	V2PF480Y/277VSY01	V4PF480Y/277VSYTK02
Model PUSH-IN Type	V2PM400Y/230VS10P	V2PF480Y/277VSY01P	V4PF480Y/277VSYTK02P
Functions	Under, Under+Sequence, Window, Window+Sequence	Under, Under+Sequence	Under, Under+Sequence, Motor Temperature (PTC)
Contacts	1 C/O	1 C/O	1 C/O
Measuring Voltage	3 Phase - 400VAC	3 Phase - 400/VAC	3 Phase - 400VAC
Control Voltage	400VAC	400VAC	400VAC
Tripping Delay	0.1 - 10 sec	Fixed < 250m sec	Fixed < 250m sec
Asymmetry Monitoring	No	5 - 25% or OFF	5 - 25% or OFF
Suitable for Frequency Converters	Yes	Yes	Yes
Suitable for Motor Applications	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	45mm wide

VOLTAGE MONITORING - VEO SERIES

FUNCTIONS



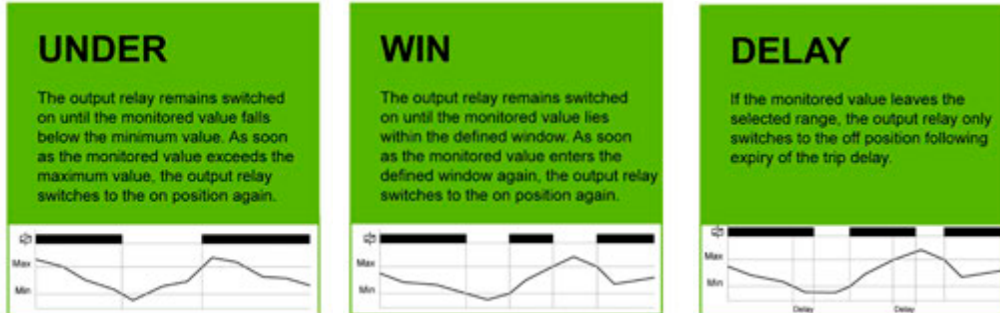
VOLTAGE MONITORING MODELS



Model	V2UM230V10	V2UF230V10
Functions	Under, Window	Voltage Drop Detector 10 to 40msec
Contacts	1 C/O	1 C/O
Measuring Voltage	1 Phase - 24VDC or 230VAC/DC	1 Phase
Control Voltage	24VDC or 230VAC/DC	230VAC
Tripping Delay	0.1 - 10 sec	0.1 - 10 sec
Asymmetry Monitoring	No	No
Suitable for Frequency Converters	Yes	Yes
Suitable for Motor Applications	Yes	Yes
Size	22.5mm wide	22.5mm wide

VOLTAGE MONITORING - ENYA SERIES

FUNCTIONS



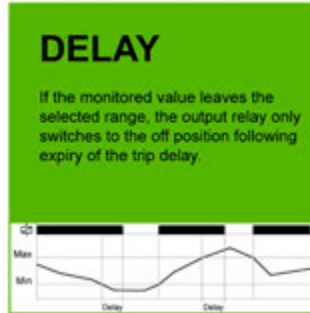
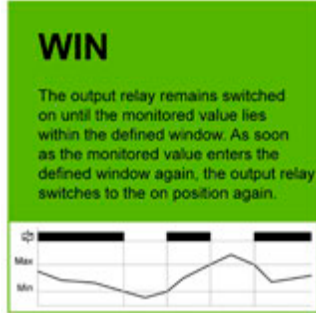
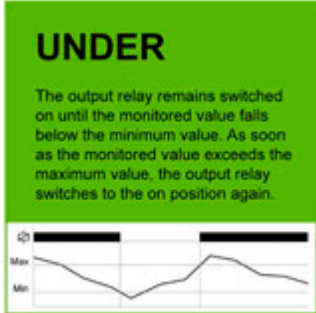
VOLTAGE MONITORING MODELS



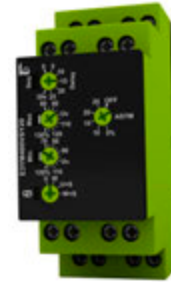
Model	E1YM400VS10	E1PF400VSY01	E3PF400VSY02
Functions	Under, Under+Sequence, Window, Window+Sequence	Under, Under+Sequence	Under, Under+Sequence
Contacts	1 C/O	1 C/O	2 C/O
Measuring Voltage	3 & 1 Phase - 400/230VAC	3 Phase - 400/VAC	3 Phase - 400/VAC
Control Voltage	400/230VAC	400VAC	400VAC
Tripping Delay	0.1 - 10 sec	Fixed - 100m sec	Fixed - 100m sec
Asymmetry Monitoring	No	5 - 25% or OFF	5 - 25% or OFF
Suitable for Frequency Converters	No	No	No
Suitable for Motor Applications	Yes	Yes	Yes
Size	17.5mm wide	17.5mm wide	55mm wide

VOLTAGE MONITORING - ENYA SERIES

FUNCTIONS



VOLTAGE MONITORING MODELS



Model	E3YM400VSY20
Functions	Under, Under+Sequence, Window, Window+Sequence, Asymmetry
Contacts	2 C/O
Measuring Voltage	3 & 1 Phase - 400/230VAC
Control Voltage	400/230VAC
Tripping Delay	0 - 30 sec
Asymmetry Monitoring	5 - 25% or OFF
Suitable for Frequency Converters	No
Suitable for Motor Applications	Yes
Size	35mm wide

VOLTAGE MONITORING - ENYA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

VOLTAGE MONITORING MODELS



Model	E1PF480Y/277VSY01	E1YU400V01	E3YU400V02
Functions	Under + Sequence	Under (adjustable)	Under (adjustable)
Contacts	1 C/O	1 C/O	2 C/O
Measuring Voltage	3 Phase - 480/277VAC	3 & 1 Phase - 400/230VAC	3 & 1 Phase - 400/230VAC
Control Voltage	480/277VAC	400/230VAC	400/230VAC
Tripping Delay	Fixed - 100m sec	Fixed - 200m sec	Fixed - 200m sec
Asymmetry Monitoring	5 - 25% or OFF	No	No
Suitable for Frequency Converters	No	No	No
Suitable for Motor Applications	Yes	No	No
Size	17.5mm wide	17.5mm wide	35mm wide

VOLTAGE MONITORING - ENYA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

VOLTAGE MONITORING MODELS




Model	E1YF400VT01	E3YF400VT02	E3YF400VFA02
Functions	Under, Test	Under, Test	Window, Latch
Contacts	1 C/O	2 C/O	2 C/O
Measuring Voltage	3 & 1 Phase - 400/230VAC	3 & 1 Phase - 400/230VAC	3 & 1 Phase - 400/230VAC
Control Voltage	400/230VAC	400/230VAC	400/230VAC
Tripping Delay / Failure Delay	Fixed - 200m sec	Fixed - 200m sec	Fixed - 200m sec / 20m sec
Asymmetry Monitoring	No	No	No
Suitable for Frequency Converters	No	No	No
Suitable for Motor Applications	No	No	No
Size	17.5mm wide	35mm wide	35mm wide

VOLTAGE MONITORING - ENYA SERIES

FUNCTIONS

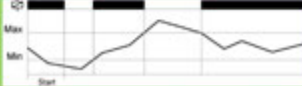
UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.



START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.



VOLTAGE MONITORING MODELS



Model	E1YF400V01	E3YF400V02	E3YF400VE20
Functions	Under (85%)	Under (85%)	Under (85%), On-Delay
Contacts	1 C/O	2 C/O	2 C/O
Measuring Voltage	3 & 1 Phase - 400/230VAC	3 & 1 Phase - 400/230VAC	3 & 1 Phase - 400/230VAC
Control Voltage	400/230VAC	400/230VAC	400/230VAC
Tripping Delay	Fixed - 200m sec	Fixed - 200m sec	Reset Time 0.5 sec
Asymmetry Monitoring	No	No	No
Suitable for Frequency Converters	No	No	No
Suitable for Motor Applications	No	No	No
Size	17.5mm wide	35mm wide	35mm wide

VOLTAGE MONITORING - ENYA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.



WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.



VOLTAGE MONITORING MODELS



Model	E1UM230V01
Functions	1 Phase AC/DC Monitoring Win, Under
Contacts	1 C/O
Measuring Voltage	24AC/24VDC/230VAC
Tripping Delay	N/A
Asymmetry Monitoring	No
Suitable for Frequency Converters	No
Suitable for Motor Applications	No
Size	17.5mm wide

VOLTAGE MONITORING - KAPPA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

VOLTAGE MONITORING MODELS



Model	R11X	K3YM400VSY20	K3PF400VSY02
Functions	11 Pin Base	Under, Under+Sequence, Window, Window+Sequence	Under + Sequence
Contacts	300VAC	2 C/O	2 C/O
Measuring Voltage		3 & 1 Phase - 400/230VAC	3 Phase - 400VAC
Control Voltage		400/230VAC	400VAC
Tripping Delay		0.1 - 10 sec	Fixed - 100m sec
Asymmetry Monitoring		5 - 30% or OFF	5 - 30% or OFF
Suitable for Frequency Converters		No	No
Suitable for Motor Applications		Yes	Yes
Size	38mm wide	38mm wide	38mm wide

VOLTAGE MONITORING - KAPPA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.



WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.



VOLTAGE MONITORING MODELS



Model	R11X	K3UM230VAC02	K3UM24VDC02
Functions	11 Pin Base	Under & Window	Under & Window
Contacts	300VAC	2 C/O	2 C/O
Measuring Voltage		Single Phase - 230VAC	Single Phase - 24VDC
Control Voltage		230VAC	24VDC
Tripping Delay		None	None
Asymmetry Monitoring		No	No
Suitable for Frequency Converters		No	No
Suitable for Motor Applications		Yes	Yes
Size	38mm wide	38mm wide	38mm wide

CURRENT MONITORING - GAMMA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

OVER

The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

THREE PHASE CURRENT MONITORING MODELS









Model	G2JM5AL20 24-240V	G2JM5AL20**
Functions	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch
Contacts	2 C/O	2 C/O
Measuring	Three Phase Current - 5 Amps	Three Phase Current - 5 Amps
Control Voltage	24 - 240VAC/DC	12 - 400VAC**
Tripping Delay/Fault Latch/Start-up Delay	0.1 - 10 sec / Yes / 0 - 10 sec	0.1 - 10 sec / Yes / 0 - 10 sec
Suitable for Frequency Converters	Yes	Yes
Size	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

CURRENT MONITORING - GAMMA SERIES

FUNCTIONS

<p>UNDER</p> <p>The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.</p> 	<p>WIN</p> <p>The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.</p> 	<p>OVER</p> <p>The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.</p> 	<p>START-UP</p> <p>The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.</p> 
<p>LATCH (Fault latch)</p> <p>If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.</p> 	<p>DELAY</p> <p>If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.</p> 		

SINGLE PHASE AC/DC CURRENT MONITORING MODELS



Model	G2IM10AL20 24-240V	G2IM10AL20**
Functions	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch
Contacts	2 C/O	2 C/O
Measuring	Single Phase AC/DC Current 100mA, 1A, 10A	Single Phase AC/DC Current 100mA, 1A, 10A
Control Voltage	24 - 240VAC/DC	12 - 400VAC**
Tripping Delay / Fault Latch	0.1 - 10 sec / Yes	0.1 - 10 sec / Yes
Start-up Delay	0 - 10 sec	0 - 10 sec
Suitable for Frequency Converters	Yes	Yes
Size	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

CURRENT MONITORING - GAMMA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

OVER

The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

SINGLE PHASE AC/DC CURRENT MONITORING MODELS



Model	G2IM5AL20 24-240V	G2IM5AL20**
Functions	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch
Contacts	2 C/O	2 C/O
Measuring	Single Phase AC/DC Current 20mA, 1A, 5A	Single Phase AC/DC Current 20mA, 1A, 5A
Control Voltage	24 - 240VAC/DC	12 - 400VAC**
Tripping Delay / Fault Latch	0.1 - 10 sec / Yes	0.1 - 10 sec / Yes
Start-up Delay	0 - 10 sec	0 - 10 sec
Suitable for Frequency Converters	Yes	Yes
Size	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

CURRENT MONITORING - GAMMA SERIES

FUNCTIONS

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

OVER

The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

SINGLE PHASE AC/DC CURRENT MONITORING MODELS



Model	G2IW5A10**	G2IO5A10**
Functions	Window	Over
Contacts	1 C/O	1 C/O
Measuring	Single Phase AC/DC Current 20mA, 1A, 5A	Single Phase AC/DC Current 20mA, 1A, 5A
Control Voltage	12 - 400VAC**	12 - 400VAC**
Tripping Delay	0.1 - 10 sec	0.1 - 10 sec
Start-up Delay	No	No
Suitable for Frequency Converters	Yes	Yes
Size	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

CURRENT MONITORING - VEO SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

OVER

The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

SINGLE PHASE AC/DC CURRENT MONITORING MODELS



Model	V2IM10AL10	V4IM35AL20	V4IM100AL20
Functions	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch, Maximum/Minimum, Maximum/Minimum + Latch	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch, Maximum/Minimum, Maximum/Minimum + Latch	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch, Maximum/Minimum, Maximum/Minimum + Latch
Contacts	1 C/O	2 C/O	2 C/O
Measuring	1 Phase AC/DC	1 Phase AC/DC	1 Phase AC/DC
Control Voltage	24 - 240VDC or 110 - 240VAC	24 - 240VAC/DC	24 - 240VAC/DC
Measured Current	10 Amps	35 Amps	100 Amps
Tripping Delay	0.1 - 10 sec	0.1 - 10 sec	0.1 - 10 sec
Start-up Delay	N/A	0 - 10 sec	0 - 10 sec
Suitable for Frequency Converters	Yes	Yes	Yes
Size	22.5mm wide	45mm wide	45mm wide

CURRENT MONITORING - ENYA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

OVER

The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

SINGLE PHASE AC CURRENT MONITORING MODELS




Model	E11M10AACL10	E11M1AACL10
Functions	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch
Contacts	1 C/O - 8 Amp	1 C/O - 8 Amp
Measuring	Single Phase AC/DC Current 10A	Single Phase AC/DC Current 1A
Control Voltage	240VAC	240VAC
Tripping Delay / Fault Latch	0.1 - 10 sec / Yes	0.1 - 10 sec / Yes
Start-up Delay	No	No
Suitable for Frequency Converters	No	No
Size	17.5mm wide	17.5mm wide

CURRENT MONITORING - ENYA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.



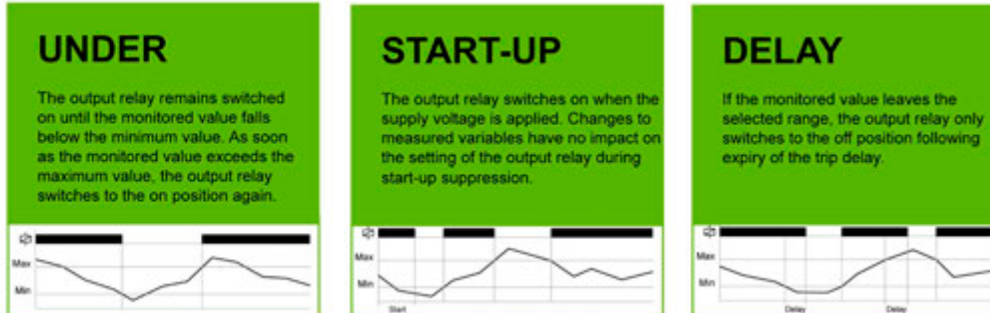
SINGLE PHASE AC CURRENT MONITORING MODELS



Model	E11U5AAC01	E11U500mAAC
Functions	Under	Under
Contacts	1 C/O - 8 Amp	1 C/O - 8 Amp
Measuring	Single Phase AC/DC Current 5A	Single Phase AC/DC Current 500mA
Control Voltage	240VAC	240VAC
Tripping Delay / Fault Latch	No	No
Start-up Delay	No	No
Suitable for Frequency Converters	No	No
Size	17.5mm wide	17.5mm wide

CURRENT MONITORING - ENYA SERIES

FUNCTIONS



SINGLE PHASE AC CURRENT MONITORING WITH OFF DELAY



Model	E31F500mAAC20
Functions	Under
Measuring	Single Phase 16 Amp AC Current
Control Voltage	240VAC
Tripping Current	50mA - 0.5A
Tripping Delay	0 - 20min
Start-up Delay	0 - 20min
Contacts	1 C/O - 8 Amp
Suitable for Frequency Converters	No
Size	35mm wide

CURRENT MONITORING - ENYA SERIES

FUNCTIONS

UNDER

The output relay remains switched on until the monitored value falls below the minimum value. As soon as the monitored value exceeds the maximum value, the output relay switches to the on position again.

WIN

The output relay remains switched on until the monitored value lies within the defined window. As soon as the monitored value enters the defined window again, the output relay switches to the on position again.

OVER

The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

DELAY

If the monitored value leaves the selected range, the output relay only switches to the off position following expiry of the trip delay.

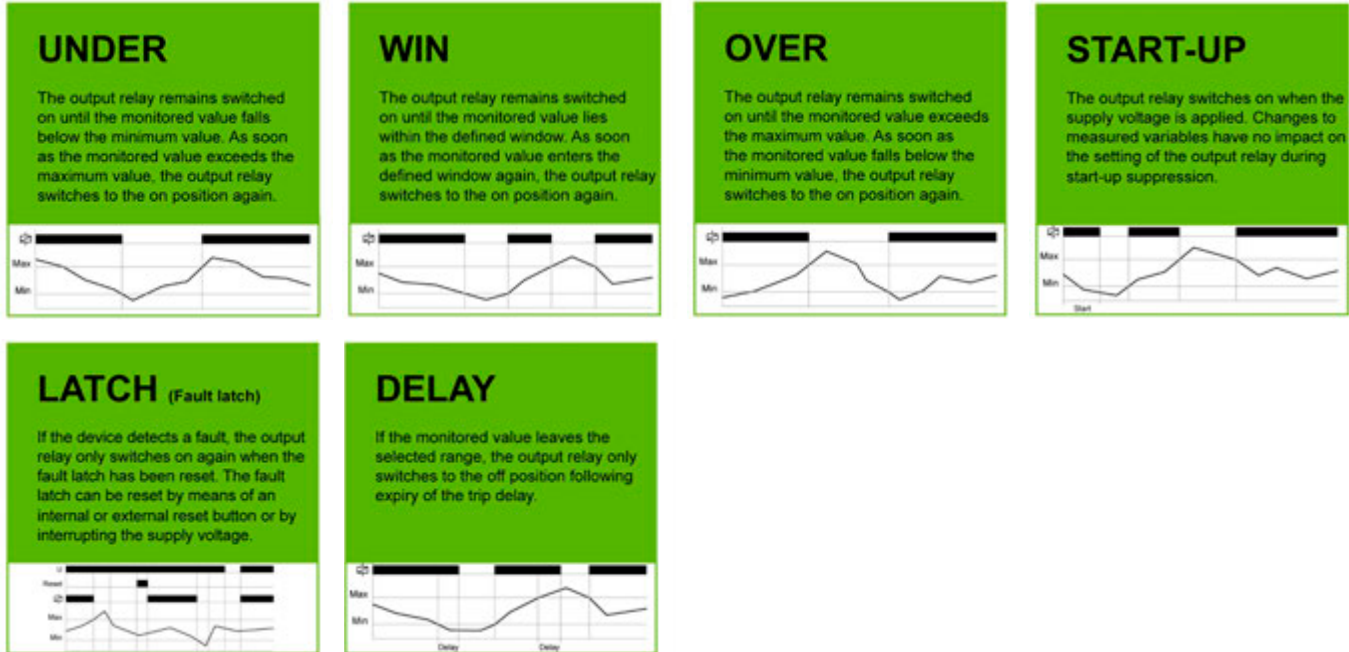
SINGLE PHASE AC CURRENT MONITORING MODELS



Model	R11X	K3IM5AACL20
Functions	11 Pin Base	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch
Contacts		2 C/O
Measuring		Single Phase AC Current - 5A
Control Voltage	300VAC	240VAC
Tripping Delay / Fault Latch		0.1 - 10 sec / Yes
Start-up Delay		0 - 10 sec
Suitable for Frequency Converters		No
Size	38mm wide	38mm wide

TEMPERATURE MONITORING - GAMMA SERIES

FUNCTIONS



TEMPERATURE MONITORING MODELS



Model	G2TMPT100L20 24-240V	G2TF02 24-240V	G2TF02**
Functions	Under, Under + Latch, Over, Over + Latch, Window, Window + Latch	Over, Over + Latch, Reset Button	Over, Over + Latch, Reset Button
Contacts	2 C/O	2 C/O	2 C/O
Measuring Range	PT100 (-50, 0, +50, +100)	Motor Winding PTC Monitoring	Motor Winding PTC Monitoring
Sensor Monitoring / Sensor Number	Yes / 1	No / up to 6	No / up to 6
Control Voltage	24 - 240VAC/DC	24 - 240VAC/DC	12 - 400VAC**
Start-up Delay / Fault Latch	1 - 30 min / Yes	No / Yes	No / Yes
Suitable for Frequency Converters	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

TEMPERATURE MONITORING - GAMMA, VEO & ENYA SERIES

FUNCTIONS

OVER

The output relay remains switched on until the monitored value exceeds the maximum value. As soon as the monitored value falls below the minimum value, the output relay switches to the on position again.

LATCH (Fault latch)

If the device detects a fault, the output relay only switches on again when the fault latch has been reset. The fault latch can be reset by means of an internal or external reset button or by interrupting the supply voltage.

START-UP

The output relay switches on when the supply voltage is applied. Changes to measured variables have no impact on the setting of the output relay during start-up suppression.

TEMPERATURE MONITORING MODELS



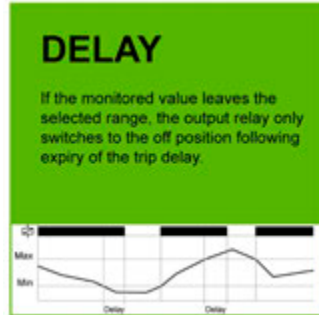
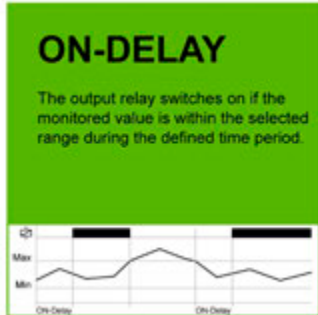
VEO Range now with PUSH-IN terminals



Model	G2TFKN02**	V2TF01	E3TF01
Model PUSH-IN Type		V2TF01P	
Functions	Over, Over + Latch, Reset Button, Zero Volt Latch, Thermistor Line Monitoring	Over	Over, Over + Latch, Reset Button
Contacts	2 C/O	1 C/O	1 C/O
Measuring Range	Motor Winding PTC Monitoring	Motor Winding PTC Monitoring	Motor Winding PTC Monitoring
Sensor Monitoring / Sensor Number	No / up to 6	No / up to 6	No / up to 6
Control Voltage	12 - 400VAC**	24 - 240VAC/DC	230VAC
Start-up Delay / Fault Latch	No / Yes	50m sec / No	No / Yes
Suitable for Frequency Converters	Yes	Yes	No
Size	22.5mm wide	22.5mm wide	35mm wide

LIQUID LEVEL MONITORING - GAMMA & ENYA SERIES

FUNCTIONS



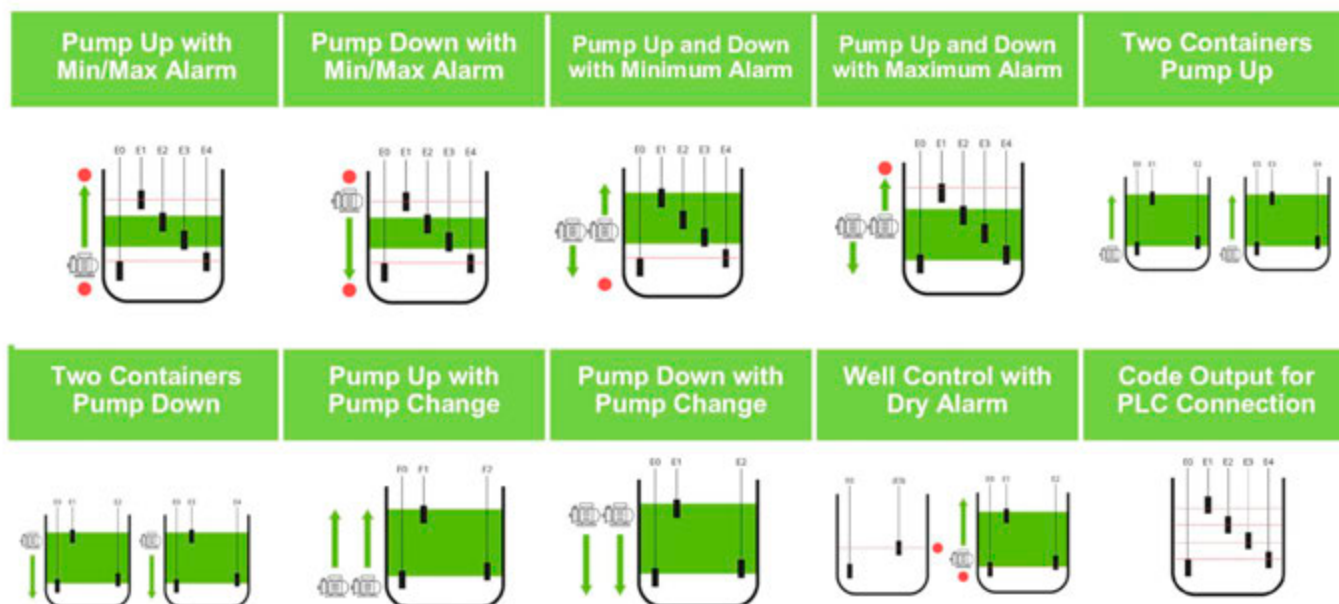
LIQUID LEVEL MONITORING MODELS



Model	G2LM20 230VAC	G2LM20 24VAC	E3LM10
Functions	Pump Up, Pump Down	Pump Up, Pump Down	Pump Up, Pump Down
Contacts	2 C/O	2 C/O	1 C/O
Control Voltage	230VAC	24VAC	230VAC
Tripping Delay (Delay On)	0.5 - 10 sec	0.5 - 10 sec	0.5 - 10 sec
Turn Off Delay (Delay Off)	0.5 - 10 sec	0.5 - 10 sec	0.5 - 10 sec
Sensitivity Control Adjustable	Yes - 0.5 to 100kΩ	Yes - 0.5 to 100kΩ	Yes - 0.5 to 100kΩ
Suitable for Frequency Converters	Yes	Yes	No
Size	22.5mm wide	22.5mm wide	35mm wide

LIQUID LEVEL MONITORING - VEO ENYA SERIES

FUNCTIONS



LIQUID LEVEL MONITORING MODELS



Model	V4LM4S30
Functions	4 Probe Plus Reference 10 Function - Multi Function
Contacts	3 C/O
Control Voltage	24 - 240VAC/DC
Delay	0.5 - 10 sec
Sensitivity Control Adjustable	Low - 0.25 to 12.5kΩ High - 10 to 500kΩ
Sensor Voltage Adjustable	AC, 18.33Hz, 100% = 2.3Vrms open-circuit voltage
Suitable for Frequency Converters	Yes
Size	45mm wide

PUMP CONTROL - GAMMA SERIES

FUNCTIONS

Mode A (parallel operation triggered by input Y2)

In this mode both outputs are activated in parallel, if the input for parallel operation (Y2-Y3 is closed in addition to the contact for operation request (Y1-Y3). If both inputs are closed or opened simultaneously, the output relays will be activated or deactivated with a fixed timing offset of 2 seconds to avoid water hammer and electrical load peaks. Without activating the input for parallel operation the two outputs are activated one at a time but never in parallel.



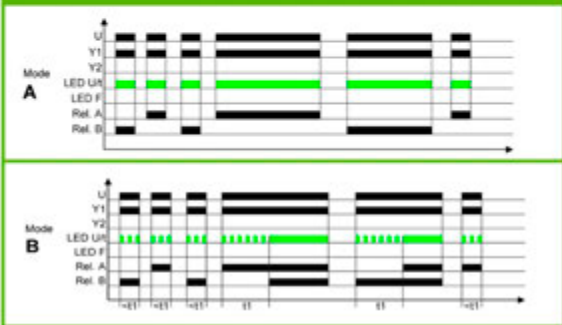
Mode B (parallel operation triggered by timing)

In this mode the timing dial is set to the selected position unlike the Mode A setting. An interrupted operation request that is longer than the adjusted delay t1 will activate the second output relay for parallel operation. At the end of a period of parallel operation the output added after the delay t1 will drop immediately. The other relay, active from the beginning of the request, will drop with offset of the fixed delay t2.



Function control by supplied power

With a link wired at the input for operation request (Y1-Y3) alternate operation is activated by supplying the auxiliary voltage to the unit. Using the Mode B setting by adjusting the dial to any time setting the second relay will operate after the set time delay for parallel operation (t1). When supply is disconnected both relays drop immediately. There is no parallel operation in Mode A as it is not recommended to use the contact Y2 in case of control by supplied power.

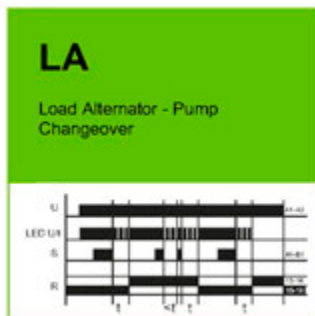
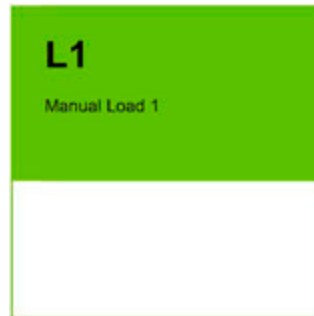
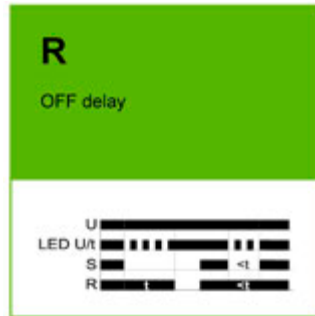
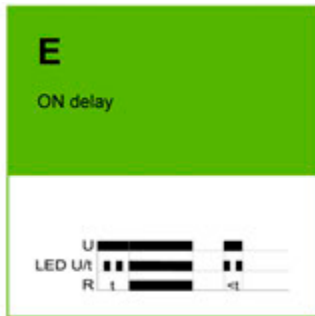


Model	G2ASMA20**
Functions	Pump Alternator
Contacts	2 C/O
Control Voltage	12 - 400VAC**
Mode A	Parallel Operation via Separate Input
Mode B	Parallel Operation via Time Delay / 2 - 300 sec
Duty Cycle Control	Even Distribution of Duty
Parallel Duty On High Demand	Yes
Suitable for Frequency Converters	Yes
Size	22.5mm wide

** Please Note that a TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

PUMP CONTROL - ENYA SERIES

FUNCTIONS



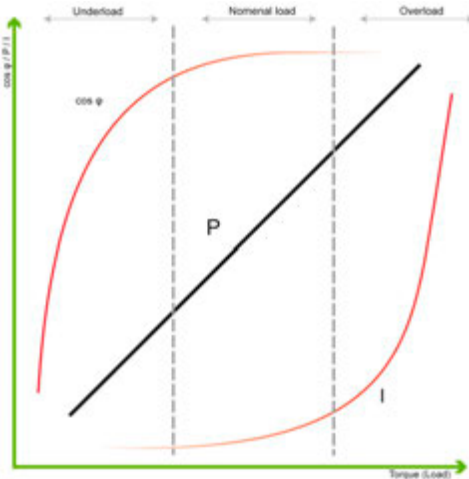
LOAD ALTERNATOR WITH TIMER



Model	E1ZMLA10
Functions	E, R, L1, LA, L2
Voltage	24 - 240VAC/DC
Contacts	1 C/O Timed/Control
Contact Rating	2000VA (8A - 250VAC)
Time Range	50 msec - 100 hours 7 ranges
Overvoltage Category	III (IEC 60664-1)
Rated Surge Voltage	4kV
Suitable for Frequency Converters	No
Size	17.5mm wide

LOAD MONITORING RELAYS - GAMMA SERIES

TECHNICAL INFORMATION



Monitoring of motors: Tele power monitoring systems offer significant advantages, particularly in situations in which monitoring tasks are carried out sensors:

- No recalibration or sensor failure due to recalibration of sensors
- No maintenance or cleaning costs
- Easy to use, even in charged air
- Saving of cabling costs
- No use of explosion-proof barriers necessary
- Simple retrofitting

Using Current Monitoring can be difficult due to the non-linear current draw in fault conditions. Using $\cos \phi$ Monitoring Relays is perfect for Underload protection but True Power Monitoring Relays can protect Pumps and Motors accurately and safely for both Over & Underload situations.

Examples: Agitators, Crushers, Grinders, Shredders, Compactors, Conveyor Systems, Bridge and Portal Cranes, Centrifugal and Piston Pumps.

LOAD MONITORING RELAYS



G4BM480V12ADTL20

G4BM480V12ADTL20** Digital True Power Monitoring Relay, 1 & 3 Phase, 0.15 - 12A
Functions: Digital Setting, Multifunction, Temperature Monitoring of Motor Winding, Fault Latch, Detection of Disconnected Load, Suitable for VFI
 TR3 Power Module (12-500VAC), 2 C/O, 45mm

G2BM400V12AL10** True Power Monitoring Relay, 1 & 3 Phase, 0.5 - 12A -
Functions: Multifunction, Fault Latch, Detection of Disconnected Load, Suitable for VFI, TR2 Power Module (12-440VAC), 1 C/O, 22.5mm wide



G2BA400V12A

G2BM400V12AFL10** True Power Monitoring Relay, 1 & 3 Phase, 0.5 - 12A -
Functions: Multifunction, Fault Latch, Detection of Disconnected Load, Suitable for VFI, TR2 Power Module (12-440VAC), 1 C/O, 22.5mm wide

G4CM690V16ATL20** Power Factor Monitoring Relay ($\cos \phi$), 1 & 3 Phase, 1 - 16A
Functions: Multifunction, Fault Latch, Detection of Disconnected Load, Suitable for VFI, TR3 Power Module (12-500VAC), 2 C/O, 45mm wide

G2CM400V10AL20** Power Factor Monitoring Relay ($\cos \phi$), 1 & 3 Phase, 0.5 - 10A
Functions: Multifunction, Fault Latch, Detection of Disconnected Load, Suitable for VFI, TR2 Power Module (12-440VAC), 2 C/O, 22.5mm wide

G2CU400V10AL10** Power Factor Monitoring Relay ($\cos \phi$), 1 & 3 Phase, 0.5 - 10A
Functions: Underload Monitoring, Fault Latch, Detection of No-Load, Suitable for VFI, TR2 Power Module (12-440VAC), 2 C/O, 22.5mm wide

** Please Note that a TR3 or TR2 Voltage Module needs to be selected for models with ** and is fitted before dispatch. The List Price above includes the TR3 or TR2 Module. All TR3 and TR2 Voltage Modules are listed in the Accessories Section.

RUN HOUR METERS & ACCESSORIES

RUN HOUR METERS



- TBG70.18(12-48VDC) Run Hour Meter with Operation Indicator, 12-48VDC, 17.5mm wide
- TBW70.18 (230VAC) Run Hour Meter with Operation Indicator, 240VAC, 17.5mm wide
- TBG30.18(12-48VDC) Run Hour Meter with Operation Indicator, 12-48VDC, Panel Mount

ACCESSORIES



TR2-230VAC



TR3-400VAC



R2 & R20



R11X



OVP1

- | | |
|-------------|--|
| TR2-12VAC | GAMMA Series Power Supply Module - 12VAC |
| TR2-24VAC | GAMMA Series Power Supply Module - 24VAC |
| TR2-110VAC | GAMMA Series Power Supply Module - 110VAC |
| TR2-230VAC | GAMMA Series Power Supply Module - 230VAC |
| TR2-400VAC | GAMMA Series Power Supply Module - 400VAC |
| TR2-440VAC | GAMMA Series Power Supply Module - 440VAC |
| TR3-24VAC | GAMMA Series Power Supply Module - 24VAC |
| TR3-230VAC | GAMMA Series Power Supply Module - 230VAC |
| TR3 400VAC | GAMMA Series Power Supply Module - 400VAC |
| TR3-500V AC | GAMMA Series Power Supply Module - 500VAC |
| IPS22.5 | GAMMA Series Clear Protection Cover (for tamper-proofing) |
| R2 | Remote Potentiometer - 1M Ω - Panel Mounted, 22.5mm - IP64 |
| R20 | Remote Potentiometer - 10k Ω - Panel Mounted, 22.5mm - IP64 |
| R11X | 11 Pin Relay Base suitable for Octal Relays |
| OVP1 | Auto/OFF/Manual Control for 24VAC/DC, 0 - 10V Control |
| OCP1 | Auto/OFF/Manual Control for 24VAC/DC, 0 - 20mA Control |
| SK2-500 | SK Series Probe - 2 Electrodes, 500mm long |
| SK3-500 | SK Series Probe - 3 Electrodes, 500mm long |

GRID AND SYSTEM PROTECTION



Autonomously working disconnecting point for private small power plants

Why? Small power plants must be disconnected from the grid immediately in the event of a network shutdown or network disruption to avoid any danger to people and equipment.

Function: An automatic disconnection device monitors the feed-in of energy to the 230/400V grid. In case of a power failure or disruptions by the energy supplier it is vital for small power plants to be disconnected within a few milliseconds. Monitoring the voltage and frequency and recognizing isolated (off-grid) operation are essential requirements for any automatic disconnection device.

Requirement: Converting renewable energy into electricity is a key element of stabilising the global climate. In the context of small and micro power plants we mainly see photovoltaic installations, small wind power generators, cogeneration plants or small hydropower plants being used. The energy produced in this way is used to cover own consumption needs, or fed into the public grid to generate a profit. To ensure network safety, an automatic interface monitors the transfer between small power plants and the grid of the energy supplier (ES). Large power plants are managed and monitored directly by the ES using telecontrol engineering. This is too expensive and therefore uneconomical for the many private producers of electricity.

In the event of a power cut or a disruption in the grid of the energy supplier, small private power plants immediately have to be disconnected from the public grid to prevent unwanted feed-in.

Failure to disconnect from the grid without delay puts maintenance personnel at risk, while consumers can also be exposed to improper voltages and frequencies. The monitoring and the automatic disconnection are carried out by an automated interface. Small power plants have to be equipped with an automatic isolation unit that is checked and permitted by an accredited body. Country-specific norms define how the interface should be realised and checked in detail.

To meet the requirements of the standards and of the energy supply companies, the market offers solutions as individual components, multinational components as well as integrated solutions. The thresholds can even be adjusted outside the standard values if required by the network operator. Functionally safe devices also fulfil the monitoring function in the event of faults, recognise these faults and ensure a safe operating condition.

TELE's NA003 offers an optimal solution for any country and any requirement.



Wind power plant



Hydropower station



Combined heat and power plant



Biomass power plant



Photovoltaic



Battery storage

GRID AND SYSTEM PROTECTION



NA003 \$940.51

- ✓ Multifunctional device
- ✓ Open setup, fully configurable without any limitations
- ✓ One device for low and medium voltage grid

TYPE DESIGNATION	NA003
ORDER INFORMATION	
Art. No.	2700000
FUNCTIONALITY	
Implemented standards	CEI 0-21 (Italy) VDE V 0126-1-1 (Turkey, Belgium, France, Greece, ...) VDE-AR-N 4105 - tested in accordance with VDE V 0124-100 (Germany, ...) G59/3 (Great Britain - low voltage) G59/3 (Great Britain - medium voltage) G83/2 (Great Britain) C10-11 (Belgium - low voltage) C10-11 (Belgium - medium voltage) TR3, TR8 - certified in accordance with BDEW 2008 (Germany - medium voltage) OENorm E 8001-4-712 (Austria) EN50438 (Europe) EN50438 Denmark NRS 097-2-1 (South Africa) Open setup
Measuring variable	phase to phase voltage, phase to neutral voltage, 10 minute voltage average, frequency, frequency change (RoCoF), Phase shift (PShift)
Measuring range	phase to phase voltage: 0 ... 560VAC, phase to neutral voltage: 0 ... 325VAC frequency: 40 ... 60Hz, RoCoF 100mHz/s ... 2.000mHz/s, Pshift 1 ... 15°
Monitoring functions	2 x phase to neutral overvoltage, 2 x phase to neutral undervoltage 2 x phase to phase overvoltage, 2 x phase to phase undervoltage 1 x 10 minutes voltage average (over) 4 x overfrequency, 4 x underfrequency, 1 x random overfrequency 1 x RoCoF (over), 1 x PShift (over)
Features	Each turn-off threshold is associated with its own turn-off time Fixed turn-on time, random turn-on time Configurable evaluation of the feedback contact Enable / Disable functions via digital inputs Enable / Disable functions via selectable operational mode 4 different connection and measuring modes: 2 wire (single phase L1, N), 3 wire (3 phase without N), 4 wire (3 phase LL only), 4 wire (3 phase LL + LN) Configurable nominal voltage Functional safety Password protection and ability to seal Error memory with time stamp (entries)
Supply voltage	24V DC ± 10%, 110 ... 240V AC ± 30%,
Rated frequency	50/60Hz or DC
Tolerance of rated frequency	48...63Hz
Output circuit	3 CO contacts 5A, 250V AC (1250VA)
Digital inputs	5 inputs for potential free contacts (24V / 5mA)
DESIGN	
Dimensions (w x h x d)	106.3 x 90.5 x 62mm
Certificates	CE, EAC

MOTOR STARTER

MOTOR STARTER P4.0

22,5 compact motor starter

Functionality

Today's drive solutions require powerful and flexible instruments. The compact motor starter P-4.0 from TELE can be used for motors up to 4.0kW @ 400V and includes 5 functions in one compact unit, requiring only 22,5mm width. This intelligent instrument offers soft start, soft stop, forward/reverse, current protection and an electronic motor protection.

Offering the integrated motor protection plus isolation relays the use of an MCB is no longer necessary. A simple circuit breaker protects the installation against short circuit and faulty wiring. The soft start and stop function is performed by semiconductors (thyristors) and the reversing function by internal relays, operated in the standstill phase. After performing the start/stop function the semiconductors are bypassed by integrated relays to minimize power dissipation. The intelligent combination of semiconductors and relays increases lifetime and efficiency of the product. The integrated current limit protects motors, shafts and plants from mechanical stress and reduces maintenance and standstill times.

Technical features

- Forward/Reverse of 3-ph ac motors 3 AC 480 V / 9 A, equals 4.0kW @ 400VAC
- integrated reversing unit
- 2-ph control for softstart and stop
- Integrated bypass relays
- 3 pots for adjustment of torque, time and max. current
- 4 LEDs indicate status and error
- Reset button on front and external reset available
- Dimension in mm (W x H x D): 22,5 x 105 x 120,3
- Article number: 490800 (F/R + blocking protection)
490801 (F/R + motor protection + isolation contactor)



Christian P4.0/RL/OL

Christian P4.0/RL/TP/IC

Your advantages

- Up to 5 functions in one instrument:
- Forward/Reverse, soft start, current limit, motor protection, soft stop.
- Minimized space consumption, only 22.5mm width
- Simple commissioning and easy operation
- Robust semiconductors with 1500V max. isolation voltage
- Increased system availability by motor protection function
- Increased lifetime by hybrid design compared to relay solution
- Energy saving by bumpless soft start/stop function and bypass relay

Applications

- Reversing of drive for door, lifting and transport application with blocking protection.
- Transport systems (belts and rollers) with blocking protection
- Motorized valves in process applications (chemical and petrochemical, power generation plants)
- Pumps and fans
- Switching of 3 ph transformers
- ... and a lot of other applications with sophisticated drive requirements

Advantage of power control with semiconductors

- Switching without any wear
- Extended lifetime
- Frequent start / stop events
- Little space occupation
- Fast switching
- Usable in industrial environment

Functions

- Reversing direction (forward / return)
- Softstart / Softstop
- Overcurrent protection
- Motorprotection (option)
- Isolation relays (option)

VEMER

Italy's largest producer of innovative Temperature, Measurement & Control Products. Vemer also has a very large range of Energy Meters, Network Analysers, Voltage/Current/Frequency Digital Display Meters, Time Switches, Current Transformers, Thermostats, Pressure, Temperature & Refrigeration Controllers and a range of Insulators.

DIGITAL TIME SWITCHES

SIMPLY SERIES DIGITAL TIME SWITCHES



As simple to set as a mechanical time switch. As accurate and versatile as a digital time switch. The best of both worlds in a very compact package.

- SIMPLY-D** Daily Time Switch, 5yr Reserve, 230VAC, 16A 1C/O, 2 modules wide
SIMPLY-W Weekly Time Switch, 5yr Reserve, 230VAC, 16A 1C/O, 2 modules wide

MEMO TIME SWITCHES



The MEMO range have a larger screen for easier programming and a rear cover for battery replacement. The features include: selectable date format, automatic daylight saving changeover, lockable with a security PIN, manual ON/OFF override and Battery status display.

Functions include: ON/OFF, ON Pulse of 1-59 sec, OFF Pulse of 1-59 sec, cycle timing (on-off sequence) and holiday block-out.



The Memo BT Series can be programmed on a smartphone using Bluetooth via the Vemer Memo Android or Apple App.



The standard Memo range can be programmed using NFC via Android phones and the same Memo App.

Please note that the Memo-DW-E products can only be manually programmed.

MEMO DIGITAL TIME SWITCHES



- MEMO-DW-E12*** 12VAC/DC Daily/Weekly Time Switch, 3yr Reserve, 16A 1C/O
MEMO-DW-E24* 24VAC/DC Daily/Weekly Time Switch, 3yr Reserve, 16A 1C/O
MEMO-DW-E* Daily/Weekly Time Switch, 3yr Reserve, 230VAC, 16A 1C/O
MEMO-DW Daily/Weekly Time Switch, 3yr Reserve, 230VAC, 16A 1C/O with NFC 
MEMO-DW2 Daily/Weekly Time Switch, 3yr Reserve, 230VAC, 16A 2C/O with NFC 
MEMO-Y Daily/Weekly/Yearly Time Switch, 3yr Reserve, 230VAC, 16A 1C/O, NFC 
MEMO-Y2 Daily/Weekly/Yearly Time Switch, 3yr Reserve, 230VAC, 16A 2C/O, NFC 
MEMO-BT1 Daily/Weekly/Yearly/Astro Time Switch, 3yr Reserve, 230VAC, 16A 1C/O 
MEMO-BT2 Daily/Weekly/Yearly/Astro Time Switch, 3yr Reserve, 230VAC, 16A 2C/O 

ASTRONOMICAL & TWILIGHT SWITCHES



- MEMO-AST1** Astronomical Time Switch, 230VAC, 16A 1C/O, 2 modules wide
MICRO-AST Astronomical Time Switch, 230VAC, 16A 1C/O, 1 modules wide
MEMO-LUX Programmable Digital Twilight Switch, 16A 1C/O, 2 modules wide

TIME SWITCHES - DIGITAL & MECHANICAL

MEMO BUS



- MEMO-BUS Daily/Weekly/Monthly/Yearly Time Switch Controller - 1C/O expandable to 9C/O
- RX4-8A** MEMO-BUS Expansion Unit, 4 x 8A Outputs, 4 modules wide
- GEO-1** MEMO-BUS GPS Receiver Module, IP54

MICRO DIGITAL TIME SWITCHES



- Micro-D** Daily Time Switch with 4yr Reserve, 230VAC, 16A 1C/O, 1 module wide
- Micro-W** Weekly Time Switch with 4yr Reserve, 230VAC, 16 Amp Single Pole, 1 module wide

NAPA MECHANICAL TIME SWITCHES



- NAPA-ED** Daily Time Switch, no Reserve, 230VAC, 16A 1C/O, Rear-Panel/DIN Mounting
- NAPA-D** Daily Time Switch, 200hr Reserve, 230VAC, 16A 1C/O, Rear-Panel/DIN Mounting
- NAPA-W** Weekly Time Switch, 200hr Reserve, 230VAC, 16A 1C/O, Rear-Panel/DIN Mounting

ELO MECHANICAL TIME SWITCHES



- ELO-D** Daily Time Switch, 200hr Reserve, 230VAC, 16A 1C/O, one module wide
- ELO-W** Weekly Time Switch with 200hr Reserve, 230VAC, 16A 1C/O, one module wide

DUET/ARVO MECHANICAL TIME SWITCHES



- DUET-D** Weekly Time Switch, 70hr Reserve, 230VAC, 16A 1C/O, two modules wide
- ARVO-D** Daily Time Switch, 72hr Reserve, 230VAC, 16A 1C/O, 2.5 modules wide
- ARVO-W** Weekly Time Switch, 72hr Reserve, 230VAC, 16 Amp Single Pole, 2.5 modules wide

TWILIGHT SWITCHES



- VELUX** Wall Mounted Twilight Switch, 230VAC, 10A 1C/O, IP54
- VEREG** Wall Mounted adjustable Twilight Switch, 230VAC, 10A 1C/O, IP54

POWER ANALYSERS

EV3M SERIES POWER ANALYSERS



EV3M POWER ANALYSERS

The EV3M range are TRMS Electronic Digital Measurement instruments with ultra bright LED displays. The EV3M series Power Analyzers display the main electric measurements of 3 or 4 wire three-phase systems, shown on three LED displays with three digits.

The electric measurements are voltage, current, power, power factor, frequency and neutral current. Available in Panel Mounted or Din Rail Mounted versions.



EV3M-R
EV3M-D

1~ & 3~ Phase LED Panel Mounted Power Analyser for 5A CT
1~ & 3~ Phase LED DIN Rail Mounted Power Analyser for 5A CT

ADR SERIES POWER ANALYSERS



ADR POWER ANALYSERS

The ADR Series measure TRMS (true root-mean-square) values, select AT and VT values, provides current, voltage, phase-shift, active/reactive energy, and frequency values. A total of 57 parameters on 33 pages of a wide backlit display that is self-explanatory and easily scrolled by the use of just 4 keys.

The RS485 MODBUS output makes it possible to store data in chart form and display the quantities measured in graphic form via the ADR-View software.



ADR-D POWER ANALYSERS - DIN RAIL MOUNTED



ADR-	1~ Phase LCD Power Analyzer for 5A CT with RS-485 output
ADR-D 230 D63	1~ Phase LCD Power Analyzer 63 A direct connection
ADR-D-E*	1~ Phase & 3~ Phase LCD Power Analyzer for 5A CT with RS-485 output
ADR-D	1~ & 3~ Phase LCD Power Analyser for 5A CT with RS-485 output
ADR-D OUT	1~ & 3~ Phase LCD Power Analyser for 5A CT with 2 programmable C/O
ADR-D 400 D90	3~ Phase LCD Power Analyzer 90A direct connection with RS-485 output
ADR-VIEW	Software and RS485/RS232 interface suitable for ADR Power Analysers

* C.T. Secondary's must not be earthed

ADR-R POWER ANALYSERS - PANEL MOUNTED



ADR-R-E*	1 ~ Phase & 3 ~ Phase LCD Power Analyser for 5A CT with RS-485 output
ADR-R	1~ & 3~ Phase LCD Power Analyser for 5A CT with RS-485 output
ADR-R OUT	1~ & 3~ Phase LCD Power Analyser for 5A CT with 2 programmable C/O
ADR-VIEW	Software and RS485 interface suitable for ADR Power Analyser
EVAD	ADR Adaptor Plate from 96x96mm to 72x72mm

* C.T. Secondary's must not be earthed

ENERGY METER SYSTEM

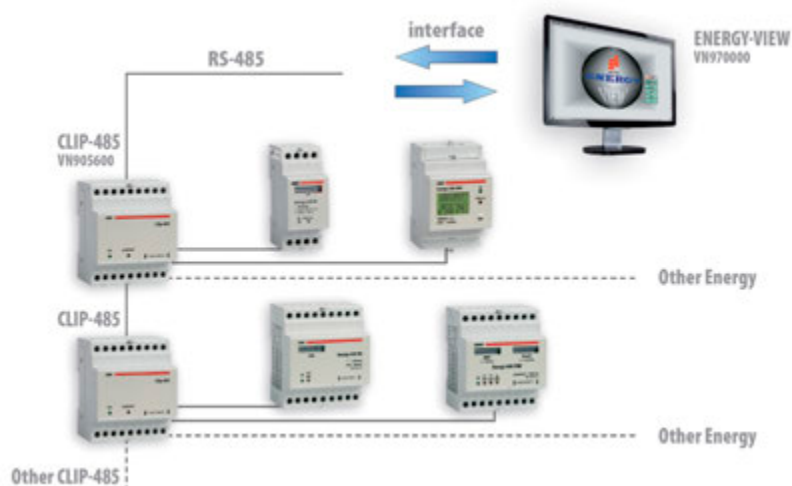
TECHNICAL INFORMATION



VEMER ENERGY METERS

Vemer have a complete range of both Analogue and Digital Energy Meters and all the necessary components to measure power consumption in complex and large 1~3~ phase systems.

The CLIP-485 pulse receiver makes it possible to remotely monitor energy consumption. Each CLIP-485 can accept up to 8 Energy Meter output signals and further CLIP-485 devices can be connected together via MODBUS. Energy data can be displayed with the ENERGY-VIEW software from Vemer.



SINGLE PHASE ENERGY METERS



- Energy-230-Micro Single Phase Meter, 22.5 Amp input, with pulse output, 1 module wide
- Energy-230-LC Single Phase Meter, 22.5 Amp input, 2 modules wide
- Energy-230-M Single Phase Meter, 25 Amp input, with pulse output, 2 modules wide
- Energy-230-TAi Single Phase Meter, CT input, with pulse output, 4 modules wide
- Energy-230-D40 LCD Single Phase Direct Meter, 40 Amp, with pulse output, 2 modules wide
- Energy-230-D63A LCD Single Phase Direct Meter, 63 Amp, with pulse output, 3 modules wide

THREE PHASE ENERGY METERS



- Energy-400 PWR* Three Phase Meter, CT input, with pulse output, 4 modules wide
- Energy-400 PWRi Three Phase Meter, CT input, with pulse output, 4 modules wide
- Energy-400D PWR* LCD Three Phase Meter, CT input, with pulse output, 4 modules wide
- Energy-400D PWRi LCD Three Phase Meter, CT input, with pulse output, 4 modules wide
- Energy-400R PWRi Three Phase Meter, CT input, with pulse output, panel mounted
- Energy-400 D90A LCD Three Phase Direct Meter, 100 Amp, with pulse output, 7 modules wide
- CLIP-485 Remote Pulse Receiver for up to 8 Energy Series Meters with RS485 output
- ENERGY-VIEW Software and RS485/RS232 interface suitable for Energy Series Meters

* C.T. Secondary's must not be earthed

LAN INTERFACE



LAN-RS485
GWI-2120B

LAN/RS485 Interface
GSM Remote Communication Interface

VOLTMETERS / AMMETERS / RUN HOUR METERS

EV SERIES METERS



EV SERIES METERS

Digital Meters in a modular 2 module DIN rail mounted or panel mounted format to measure AC (or DC) Voltage or Current. The EVM series can be direct connected as a voltmeter or as an Ammeter via a CT xx/5A connection. Display is configurable and the ratio is adjusted via dip switches. CT ratios are: 5, 10, 15, 20, 25, 40, 50, 60, 100, 150, 200, 250, 400, 500, 600, 800, 1000, 1500, 2000, 2500, 4000.



EVM-2DIN	Multifunction AC Volt/Ammeter, 600VAC, 5 to 4000A, DIN Rail
EVM-R	Multifunction AC Volt/Ammeter, 600VAC, 5 to 4000A, Panel
EVA-R(10A-AC)	Digital 10 Amp AC Ammeter, Panel Mounted
EVV-R-600VDC	Digital Voltmeter, 600VDC, Panel Mounted
EVV2DIN100VAC	Digital Voltmeter, 100VAC, DIN rail mounted

MULTIFUNCTION AC VOLT / AMMETER WITH RELAY TECHNICAL INFORMATION



EVR-D MULTIFUNCTION METER WITH RELAY

Digital Multimeter in a modular 4 module DIN rail mounted or panel mounted format to measure AC Voltage or Current with Relay Output. The EVR-D device can be direct connected as a Voltmeter up to 600 V AC or Ammeter via a xx/5A CT with a configurable display. Display ratio adjusted via dip switches. Ratios are from 5 to 4000 Amps. The output may be activated when the measurement is higher/lower than a threshold which can be set.

EVR-D	Multifunction AC Volt/Ammeter, 600VAC, 5 to 4000A with Relay
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HMS SERIES RUN HOUR METERS



HMS-024	Panel mounting Run Hour Meter, 24VAC, 55x55 mm
HMS-230	Panel mounting Run Hour Meter, 230VAC, 55x55 mm
HMS-400	Panel mounting Run Hour Meter, 400VAC, 55x55 mm
HMS-1080	Panel mounting Run Hour Meter, 10-80VDC, 55x55 mm

HMC SERIES RUN HOUR METERS - IP65



HMC-024	Panel mounting Run Hour Meter, 24VAC, 58 mm Diameter (51mm hole)
HMC-230	Panel mounting Run Hour Meter, 230VAC, 58 mm Diameter (51mm hole)
HMC-1080	Panel mounting Run Hour Meter, 10-80VDC, 58 mm Diameter (51mm hole)
KAS	Anti-vibration Kit for HMC Series

HMD SERIES RUN HOUR METERS



HMD-024	DIN Rail Mounted Run Hour Meter, 24 VAC, 2 Modules Wide
HMD-230	DIN Rail Mounted Run Hour Meter, 230 VAC, 2 Modules Wide
HMD-1236	DIN Rail Mounted Run Hour Meter, 12-36 VAC, 2 Modules Wide

CURRENT TRANSFORMERS & COUNTERS

CURRENT TRANSFORMERS WITH DIN RAIL CLIP



TU20 50:5 Current Transformer 50:5 Amp - 20x5mm Bar - 16mm Diameter Size
 TU20 75:5 Current Transformer 75:5 Amp - 20x5mm Bar - 16mm Diameter Size
 TU20 100:5 Current Transformer 100:5 Amp - 20x5mm Bar - 16mm Diameter Size
 TU20 125:5 Current Transformer 125:5 Amp - 20x5mm Bar - 16mm Diameter Size



TU30 150:5 Current Transformer 150:5 Amp - 30x10mm Bar - 22mm Diameter Size
 TU30 200:5 Current Transformer 200:5 Amp - 30x10mm Bar - 22mm Diameter Size
 TU30 250:5 Current Transformer 250:5 Amp - 30x10mm Bar - 22mm Diameter Size
 TU40 100:5 Current Transformer 100:5 Amp - 30x10mm Bar - 22mm Diameter Size
 TU40 125:5 Current Transformer 125:5 Amp - 40x10mm Bar - 30mm Diameter Size
 TU40 150:5 Current Transformer 150:5 Amp - 40x10mm Bar - 30mm Diameter Size
 TU40 200:5 Current Transformer 200:5 Amp - 40x10mm Bar - 30mm Diameter Size
 TU40 250:5 Current Transformer 250:5 Amp - 40x10mm Bar - 30mm Diameter Size



TU40 300:5 Current Transformer 300:5 Amp - 40x10mm Bar - 30mm Diameter Size
 TU40 400:5 Current Transformer 400:5 Amp - 40x10mm Bar - 30mm Diameter Size
 TU40 500:5 Current Transformer 500:5 Amp - 40x10mm Bar - 30mm Diameter Size
 TU40 600:5 Current Transformer 600:5 Amp - 40x10mm Bar - 30mm Diameter Size
 TUC 60 600:5 Current Transformer 600:5 Amp - 60x10mm Bar - 51mm Diameter Size
 TUC 60 800:5 Current Transformer 800:5 Amp - 60x10mm Bar - 51mm Diameter Size
 TUC 60 1000:5 Current Transformer 1000:5 Amp - 60x10mm Bar - 51mm Diameter Size



TUC 60 1200:5 Current Transformer 1200:5 Amp - 60x10mm Bar - 51mm Diameter Size
 TUC 60 1500:5 Current Transformer 1500:5 Amp - 60x10mm Bar - 51mm Diameter Size
 TUC 60 2000:5 Current Transformer 2000:5 Amp - 60x10mm Bar - 51mm Diameter Size
 TUC 80 800:5 Current Transformer 800:5 Amp - 80x30mm Bar - 65mm Diameter Size
 TUC 80 1000:5 Current Transformer 1000:5 Amp - 80x30mm Bar - 65mm Diameter Size
 TUC 80 1200:5 Current Transformer 1200:5 Amp - 80x30mm Bar - 65mm Diameter Size
 TUC 80 1500:5 Current Transformer 1500:5 Amp - 80x30mm Bar - 65mm Diameter Size
 TUC 80 2000:5 Current Transformer 2000:5 Amp - 80x30mm Bar - 65mm Diameter Size
 TUC 80 2500:5 Current Transformer 2500:5 Amp - 80x30mm Bar - 65mm Diameter Size

CURRENT SHUNTS - 60MV



VJ 3674 2222 Current Shunt 20 Amp
 VJ 3674 2322 Current Shunt 25 Amp
 VJ 3674 2622 Current Shunt 50 Amp
VJ 3674 2722 Current Shunt 60 Amp
VJ 3674 2822 Current Shunt 80 Amp
VJ 3674 2922 Current Shunt 100 Amp
 VJ 3674 3122 Current Shunt 150 Amp

PULSE COUNTERS



EC5-024 Panel mounting 5 digit zeroing Pulse Counter 24 VAC, 48x24 mm
 EC5-230 Panel mounting 5 digit zeroing Pulse Counter 230 VAC, 48x24 mm

ENERGY MANAGEMENT & TRANSFORMERS

LOAD SHEDDING



- PC-RF8** Load Shedding Controller suitable for up to 8 Wireless Connected Actuators
- RX.16A** Load Shedding Wireless Actuators - 16 Amp
- SET-PC-RF8** Load Shedding Set including the PC-RF8 controller & 2 RX.16A Actuators
- Solar3** Load Shedding Controller suitable for up to 3 Connected Loads

TRANSFORMERS



- TM3-230/12** Surface Mounted Transformer, Input 230VAC, Output 12VAC, 3VA
- TM3-230/24** Surface Mounted Transformer, Input 230VAC, Output 24VAC, 3VA
- TMC10/12** DIN Rail Mounting Transformer, 230VAC-4/8/12VAC, 10VA, 2 modules wide
- TMC10/24** DIN Rail Mounting Transformer, 230VAC-12/24VAC, 10VA, 2 modules wide
- TMC15/24** DIN Rail Mounting Transformer, 230VAC-12/24VAC, 15VA, 2 modules wide
- TMC24/24** DIN Rail Mounting Transformer, 230VAC-12/24VAC, 24VA, 3 modules wide
- TMC30/24** DIN Rail Mounting Transformer, 230VAC-12/24VAC, 30VA, 3 modules wide
- TMC40/24** DIN Rail Mounting Transformer, 230VAC-12/24VAC, 40VA, 3 modules wide
- TMC63/24** DIN Rail Mounting Transformer, 230VAC-12/24VAC, 63VA, 4 modules wide
- TMC400-63/24** DIN Rail Mounting Transformer, 400VAC-12/24VAC, 63VA, 4 modules wide

PULSE COUNTERS



- EC5-024** Panel mounting 5 digit zeroing Pulse Counter 24 VAC, 48x24 mm
- EC5-230** Panel mounting 5 digit zeroing Pulse Counter 230 VAC, 48x24 mm

INSULATORS

TECHNICAL INFORMATION



VERMER INSULATORS

Insulators designed to be used as supports or spacers of electrical busbars in switchboard construction.

Made of glass fibre reinforced polyester resin they guarantee a high mechanical and electrical resistance. Both the top and bottom of the insulators have a brass or white iron zincate threaded female insert. Material is self-extinguishing V0(1.6 mm) according to UL-94 Standard, Arc resistance is >180 s - ASTM D-495, Operating temperature is -40°C to +130 °

HEX STYLE INSULATORS



SA515400	Insulated Stud - 20mm high - M5 - Hex
SA519600	Insulated Stud - 25.5mm high - M5 - Hex
SA520400	Insulated Stud - 25.5mm high - M6 - Hex
SA525300	Insulated Stud - 35mm high - M6 - Hex
SA522000	Insulated Stud - 30mm high - M8 - Hex
SA527900	Insulated Stud - 35mm high - M8 - Hex
SA544400	Insulated Stud - 50mm high - M8 - Hex
SA528700	Insulated Stud - 35mm high - M10 - Hex
SA545100	Insulated Stud - 50mm high - M10 - Hex
SA553500	Insulated Stud - 60mm high - M10 - Hex
SA565900	Insulated Stud - 75mm high - M10 - Hex
SA535200	Insulated Stud - 40mm high - M12 - Hex
SA548500	Insulated Stud - 30mm high - M12 - Hex
SA560000	Insulated Stud - 65mm high - M12 - Hex

TEMPERATURE CONTROLLERS & PROBES

TEMPERATURE CONTROLLERS - PANEL MOUNTED (75X33MM)



- TM-NiPt-P3D LED Temperature Display for PT100/Ni100 probes, 12-24VAC/DC
- HT-NiPt-1P3D LED Temperature Controller for PT100/Ni100 probes, 12-24VAC/DC, 1C/O
- HT-NiPt-1P3A LED Temperature Controller for PT100/Ni100 probes, 230VAC, 1C/O
- HT-NTC-1P3D LED Temperature Controller for NTC probes, 12-24VAC/DC, 1C/O
- HT-NTC-1P3A LED Temperature Controller for NTC probes, 230VAC, 1C/O
- HT-JK-1P3D LED Temperature Controller for Thermocouple probes, 12-24VAC/DC, 1C/O

TEMPERATURE CONTROLLERS - DIN MOUNTED - 4 MODULES WIDE



- HT-NiPt-1DA LED Temperature Controller for Pt100 & Ni100 probes, 24&240VAC, 1C/O
- HT-NTC-1DA LED Temperature Controller for NTC probes, 24&240VAC, 1C/O
- HT-JK-1DA LED Temperature Controller for Thermocouple probes, 24&240VAC, 1C/O

TEMPERATURE CONTROLLERS WITH ANALOG/RS485 OUTPUT



- FHT-1P3D LED Temperature Controller, PT100, Ni100, Thermocouple probes, 12-24VAC/DC, Outputs: RS485, 0-10V, 4-20mA, 1C/O
- FHT-2P3D LED Temperature Controller, PT100, Ni100, Thermocouple probes, 12-24VAC/DC, Outputs: RS485, 0-10V, 4-20mA, 2C/O
- FHT-1DA LED Temperature Controller, PT100, Ni100 & Thermocouple probes, 24VAC & 240VAC, Outputs: RS485, 0-10V, 4-20mA, 1C/O

REFRIGERATION CONTROLLERS



- FR-NTC-1P3D LED Refrigeration Controller for NTC probes, 12-24VAC/DC, 1C/O
- FR-NTC-4P3D LED Refrigeration Controller for FCU Regulation, 12-24VAC/DC, 4C/O

TEMPERATURE PROBES



- PT100/EC PT100 Temperature Probe - 50°C to 110°C - IP68 - 1.5 meter
- PT100/3MT PT100 Temperature Probe 0°C to 400°C - 3m tinned copper braided sleeve
- PT100/10MT PT100 Temperature Probe 0°C to 400°C - 10m tinned copper braided sleeve
- PT1000 PT1000 Temperature Probe - 40°C - 200°C - 3m
- Ni100 Ni100 Temperature Probe - 50°C to 105°C - 3m
- NTC/C NTC Temperature Probe - 50°C to 120°C - 1.5m - IP67
- NTC-BC NTC Temperature Probe (Pipe Clamp Type) - 50°C to 120°C - 1.5m - IP67
- NTC/3MT NTC Temperature Probe - 40°C to 110°C - 3m - IP67

PRESSURE CONTROLLERS & PROBES



- PR-1P7A LED Pressure Regulator, 24 & 240VAC, 1C/O
- SPK-10 Pressure Probe - 0.5 to 7 bar, IP65, Output 4-20mA, 1/4" SAE (male) fitting
- SPK-30 Pressure Probe - 0 to 30 bar, IP65, Output 4-20mA, 1/4" SAE (male) fitting

MOVEMENT DETECTORS / THERMOSTATS

WALL MOUNTED MOVEMENT DETECTORS



Sensor-140 140°/8 meter PIR Movement Detector, 1C/O 230VAC
 Sensor-200 200°/8 meter PIR Movement Detector, 1 C/O 230VAC

ELECTROMAGNETIC MOVEMENT DETECTOR



Sensor-HF 270°/6 meter Flush Box type High Frequency Movement Detector, 1C/O

CEILING MOUNTED MOVEMENT DETECTORS



Sensor-360 360°/7 meter PIR Movement Detector, 1 C/O 230VAC
 Sensor-T 360°/6 meter PIR Movement Detector, 1C/O 230VAC
 Sensor-2T 360°/6 meter PIR Movement Detector, 2C/O 230VAC

THALOS THERMOSTATS



Thalos-Bianco Wall/Flush Box mounted White Thermostat with LCD Touch Screen, battery supply
 Thalos-230-Bianco Wall/Flush Box mounted White Thermostat with LCD Touch Screen and colour changing feature, 230V supply

MITHOS THERMOSTATS



Mithos-Bianco Wall Mounted White Thermostat, Fully Programmable, Battery Supply
 X.Temp NTC External Probe - 2 meters long, IP66

LIQUID LEVEL PROBES



ES Stainless Steel Electrode including Nylon holder and Ballast

WALTHER

Plugs, Sockets and Accessories - Walther-Werke is Germany's largest manufacturer of both Heavy-Duty Multipole Connectors called PROCON and the IEC type Plug and Socket System called CEEtyp. Special stage and entertainment versions of the Procon Heavy Duty Multipole Connectors including steel levers are available from stock. Also available are container plugs and sockets. We carry one of New Zealand's largest range of Multipole Connectors in stock. Walther are the only plug and socket manufacturer that still manufactures all their products in Germany.

CEETYP IP44 PLUGS & SOCKETS

CEETyp is the trademark for Walther's range of plugs and sockets made to the International IEC 60309 standard. Walther CEETyp products carry more than 6000 test certificates worldwide and have a large variety of models.

■ Made
■ in
■ Germany



They are a very safe and reliable power connection with very simple handling and operation.

The Housings are all made of high quality P6 Polyamide which has the best resistance to chemicals and the highest resistance to tracking. The Housings are colour coded according to Operating Voltage.

All CEETyp contacts are machined from solid high quality copper alloy. Each contact has 2 screws for a secure connection. For increased safety the earth contact sleeve is longer than the others so therefore contact between earth contact pin and earth contact sleeve is established first and breaks last.

IP44 PLUGS



210306	Plug - 16 Amp, 3 Pole, 240VAC, Blue
211306	Plug - 16 Amp, 3 Pole, 240VAC, Blue
210406	Plug - 16 Amp, 4 Pole, 415VAC, Red
210	Plug - 16 Amp, 5 Pole, 415VAC, Red
230306	Plug - 32 Amp, 3 Pole, 240VAC, Blue
230406	Plug - 32 Amp, 4 Pole, 415VAC, Red
230	Plug - 32 Amp, 5 Pole, 415VAC, Red
230706	Plug - 32 Amp, 7 Pole, 415VAC, Red
260	Plug - 63 Amp, 5 Pole, 415VAC, Red
261	Plug - 63 Amp, 5 Pole, 415VAC, Red

IP44 PLUGS - SCREWLESS



210SL	Plug - 16 Amp, Screwless Terminals, 5 Pole, 415VAC, Red
230SL	Plug - 32 Amp, Screwless Terminals, 5 Pole, 415VAC, Red

IP44 COUPLERS/CONNECTORS



310306	Coupler - 16 Amp, 3 Pole, 240VAC, Blue
311306	Coupler - 16 Amp, 3 Pole, 240VAC, Blue
310406	Coupler - 16 Amp, 4 Pole, 415VAC, Red
310	Coupler - 16 Amp, 5 Pole, 415VAC, Red
330306	Coupler - 32 Amp, 3 Pole, 240VAC, Blue
330406	Coupler - 32 Amp, 4 Pole, 415VAC, Red
330	Coupler - 32 Amp, 5 Pole, 415VAC, Red
360	Coupler - 63 Amp, 5 Pole, 415VAC, Red
361	Coupler - 63 Amp, 5 Pole, 415VAC, Red

CEETYP IP44 PLUGS & SOCKETS

IP44 COUPLER/CONNECTORS - SCREWLESS



- 310SL** Coupler - 16 Amp, Screwless Terminals, 3P, 240VAC, Blue
330SL Coupler - 32 Amp, Screwless Terminals, 5P, 415VAC, Red

IP44 PHASE INVERTER/SEQUENCE TEST PLUGS



- 211PH** Phase Inverter Plug - 16 Amp, 5 Pole, 415VAC, Red
231PH Phase Inverter Plug - 32 Amp, 5 Pole, 415VAC, Red
210406DF Phase Sequence Test Plug - 16 Amp, 4 Pole, 415VAC
210DF Phase Sequence Test Plug - 16 Amp, 5 Pole, 415VAC
230406DF Phase Sequence Test Plug - 32 Amp, 4 Pole, 415VAC
230DF Phase Sequence Test Plug - 32 Amp, 5 Pole, 415VAC

IP44 SURFACE SOCKET OUTLETS



- 110306** Surface Mounted Socket Outlet - 16A, 3 Pole, 240VAC, Blue
110406 Surface Mounted Socket Outlet - 16A, 4 Pole, 415VAC, Red
110 Surface Mounted Socket Outlet - 16A, 5 Pole, 415VAC, Red
130306 Surface Mounted Socket Outlet - 32A, 3 Pole, 240VAC, Blue
130406 Surface Mounted Socket Outlet - 32A, 4 Pole, 415VAC, Red
130 Surface Mounted Socket Outlet - 32A, 5 Pole, 415VAC, Red
130706 Surface Mounted Socket Outlet - 32A, 7 Pole, 415VAC, Red

IP44 PANEL MOUNTED SOCKET OUTLETS - ANGLED



- 510306** Angled Panel Mounted Socket - 16 Amp, 3P, 240VAC, Blue
510406 Angled Panel Mounted Socket - 16 Amp, 4P, 415VAC, Red
510 Angled Panel Mounted Socket - 16 Amp, 5P, 415VAC, Red
530306 Angled Panel Mounted Socket - 32 Amp, 3P, 240VAC, Blue
530406 Angled Panel Mounted Socket - 32 Amp, 4P, 415VAC, Red
530 Angled Panel Mounted Socket - 32 Amp, 5P, 415VAC, Red

IP44 PANEL MOUNTED SOCKET OUTLETS - STRAIGHT



- 410306** Straight Panel Mounted Socket Outlet - 16A, 3 Pole, 240VAC, Blue
410406 Straight Panel Mounted Socket Outlet - 16A, 4 Pole, 415VAC, Red
410 Straight Panel Mounted Socket Outlet - 16A, 5 Pole, 415VAC, Red
430306 Straight Panel Mounted Socket Outlet - 32A, 3 Pole, 240VAC, Blue
430406 Straight Panel Mounted Socket Outlet - 32A, 4 Pole, 415VAC, Red
430 Straight Panel Mounted Socket Outlet - 32A, 5 Pole, 415VAC, Red
460306 Straight Panel Mounted Socket Outlet - 63A, 3 Pole, 415VAC, Red
460406 Straight Panel Mounted Socket Outlet - 63A, 4 Pole, 415VAC, Red
460 Straight Panel Mounted Socket Outlet - 63A, 5 Pole, 415VAC, Red

CEETYP IP44 PLUGS & SOCKETS

IP44 INTERLOCKED SWITCHED SOCKET OUTLETS



AT110306	Interlocked Switched Socket Outlet - 16 Amp, 3 Pole, 240VAC, Blue
AT110406	Interlocked Switched Socket Outlet - 16 Amp, 4 Pole, 415VAC, Red
AT110	Interlocked Switched Socket Outlet - 16 Amp, 5 Pole, 415VAC, Red
AT130306	Interlocked Switched Socket Outlet - 32 Amp, 3 Pole, 415VAC, Blue
AT130406	Interlocked Switched Socket Outlet - 32 Amp, 4 Pole, 415VAC, Red
AT130	Interlocked Switched Socket Outlet - 32 Amp, 5 Pole, 415VAC, Red

IP44 SURFACE MOUNTED APPLIANCE INLETS



610306	Surface Mounted Appliance Inlet - 16 Amp, 3 Pole, 240VAC, Blue
610406	Surface Mounted Appliance Inlet - 16 Amp, 4 Pole, 415VAC, Red
610	Surface Mounted Appliance Inlet - 16 Amp, 5 Pole, 415VAC, Red
630306	Surface Mounted Appliance Inlet - 32 Amp, 3 Pole, 240VAC, Blue
630406	Surface Mounted Appliance Inlet - 32 Amp, 4 Pole, 415VAC, Red
630	Surface Mounted Appliance Inlet - 32 Amp, 5 Pole, 415VAC, Red

IP44 PANEL MOUNTED APPLIANCE INLETS



615306	Panel Mounted Appliance Inlet - 16A, 3 Pole, 240VAC, Blue
615406	Panel Mounted Appliance Inlet - 16A, 4 Pole, 415VAC, Red
615	Panel Mounted Appliance Inlet - 16A, 5 Pole, 415VAC, Red
615PH	Panel Mounted Inlet with Phase Inverter - 16A 5P 415VAC, Red
635306	Panel Mounted Appliance Inlet - 32A, 3 Pole, 240VAC, Blue
635406	Panel Mounted Appliance Inlet - 32A, 4 Pole, 415VAC, Red
635	Panel Mounted Appliance Inlet - 32A, 5 Pole, 415VAC, Red
635PH	Panel Mounted Inlet with Phase Inverter - 32A 5P 415VAC, Red
667	Panel Mounted Appliance Inlet - 63A, 5 Pole, 415VAC, Red

IP44 MONDO COUPLERS



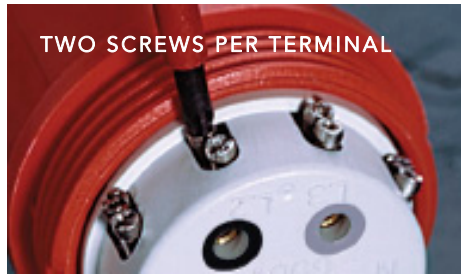
316306	Mondo Angled Coupler - 16 Amp, 3 Pole, 240VAC, Blue
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CEETYP IP67 PLUGS & SOCKETS

FAST. SAFE. SECURE. WATERTIGHT.

Walther CEETyp offers the quickest assembly and the most secure operational reliability. Walther has incorporated a patented cage type gasket inside the body of the plug. This seals in both directions both towards the cable entry and towards the front. Connection security is increased with screw terminals having 2 screws per contact. The cable gland has great strain relief and water tightness. The screwless version has unlimited strain relief. Water tightness is increased with a double sealing groove. Opened hinged lid snaps automatically into closed position when let loose. The CEETyp system is padlockable as a protection against unauthorized disconnection. Walther is made in Germany.



IP67 PLUGS



219306	Plug - 16 Amp, 3 Pole, 240VAC, Blue
219406	Plug - 16 Amp, 4 Pole, 415VAC, Red
219	Plug - 16 Amp, 5 Pole, 415VAC, Red
239306	Plug - 32 Amp, 3 Pole, 240VAC, Blue
239406	Plug - 32 Amp, 4 Pole, 415VAC, Red
239	Plug - 32 Amp, 5 Pole, 415VAC, Red
269306	Plug - 63 Amp, 3 Pole, 240VAC, Blue
269406	Plug - 63 Amp, 4 Pole, 415VAC, Red
269	Plug - 63 Amp, 5 Pole, 415VAC, Red
279306	Plug - 125 Amp, 3 Pole, 240VAC, Blue
279406	Plug - 125 Amp, 4 Pole, 415VAC, Red
279	Plug - 125 Amp, 5 Pole, 415VAC, Red

CEETYP IP67 PLUGS & SOCKETS

IP67 COUPLERS/CONNECTORS



319306	Coupler - 16 Amp, 3 Pole, 240VAC, Blue
319406	Coupler - 16 Amp, 4 Pole, 415VAC, Red
319	Coupler - 16 Amp, 5 Pole, 415VAC, Red
339306	Coupler - 32 Amp, 3 Pole, 240VAC, Blue
339406	Coupler - 32 Amp, 4 Pole, 415VAC, Red
339	Coupler - 32 Amp, 5 Pole, 415VAC, Red
369306	Coupler - 63 Amp, 3 Pole, 240VAC, Blue
369406	Coupler - 63 Amp, 4 Pole, 415VAC, Red
369	Coupler - 63 Amp, 5 Pole, 415VAC, Red
379306	Coupler - 125 Amp, 3 Pole, 240VAC, Blue
379406	Coupler - 125 Amp, 4 Pole, 415VAC, Red
379	Coupler - 125 Amp, 5 Pole, 415VAC, Red
379P	Coupler - 125 Amp, 5 Pole, 415VAC, Red - with Pilot



IP67 SURFACE MOUNTED SOCKET OUTLETS



119306	Surface Mounted Socket Outlet - 16A, 3 Pole, 240VAC, Blue
119406	Surface Mounted Socket Outlet - 16A, 4 Pole, 415VAC, Red
119	Surface Mounted Socket Outlet - 16A, 5 Pole, 415VAC, Red
139306	Surface Mounted Socket Outlet - 32A, 3 Pole, 240VAC, Blue
139406	Surface Mounted Socket Outlet - 32A, 4 Pole, 415VAC, Red
139	Surface Mounted Socket Outlet - 32A, 5 Pole, 415VAC, Red
169406	Surface Mounted Socket Outlet - 63A, 4 Pole, 415VAC, Red
169	Surface Mounted Socket Outlet - 63A, 5 Pole, 415VAC, Red
179406OK	Surface Mounted Socket Outlet - 125A, 4 Pole, 415VAC, Red
179OK	Surface Mounted Socket Outlet - 125A, 5 Pole, 415VAC, Red



IP67 PANEL MOUNTED SOCKET OUTLETS - ANGLED



519306	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 16A 3P
519406	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 16A 4P
519	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 16A 5P
539306	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 32A 3P
539406	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 32A 4P
539	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 32A 5P
569306	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 63A 3P
569406	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 63A 4P
569	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 63A 5P
579406	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 125A 4P
579	Walther CeeTyp IP67 Angled Panel Mounted Socket Outlet - 125A 5P



CEETYP IP67 PLUGS & SOCKETS

IP67 PANEL MOUNTED SOCKET OUTLETS - STRAIGHT



419306	Straight Panel Mounted Socket Outlet - 16A 3P 240VAC, Blue
419406	Straight Panel Mounted Socket Outlet - 16A 4P 415VAC, Red
419	Straight Panel Mounted Socket Outlet - 16A 5P 415VAC, Red
439306	Straight Panel Mounted Socket Outlet - 32A 3P 240VAC, Blue
439406	Straight Panel Mounted Socket Outlet - 32A 4P 415VAC, Red
439	Straight Panel Mounted Socket Outlet - 32A 5P 415VAC, Red
469306	Straight Panel Mounted Socket Outlet - 63A 3P 240VAC, Blue
469406	Straight Panel Mounted Socket Outlet - 63A 4P 415VAC, Red
469	Straight Panel Mounted Socket Outlet - 63A 5P 415VAC, Red
479306	Straight Panel Mounted Socket Outlet - 125A 3P 240VAC, Blue
479	Straight Panel Mounted Socket Outlet - 125A 5P 415VAC, Red



IP67 INTERLOCKED SWITCHED SOCKET OUTLETS



AT119306	Interlocked Switched Socket Outlet - 16 Amp, 3 Pole, 240VAC, Blue
AT119406	Interlocked Switched Socket Outlet - 16 Amp, 4 Pole, 415VAC, Red
AT119	Interlocked Switched Socket Outlet - 16 Amp, 5 Pole, 415VAC, Red
AT139406	Interlocked Switched Socket Outlet - 32 Amp, 4 Pole, 415VAC, Red
AT139	Interlocked Switched Socket Outlet - 32 Amp, 5 Pole, 415VAC, Red
AE169406	Interlocked Switched Socket Outlet - 63 Amp, 4 Pole, 415VAC, Red
AE169	Interlocked Switched Socket Outlet - 63 Amp, 5 Pole, 415VAC, Red

IP67 PANEL MOUNTED APPLIANCE INLETS - ANGLED



619306	Panel Mounted Appliance Inlet - 16 Amp, 3 Pole, 240VAC, Blue
619406	Panel Mounted Appliance Inlet - 16 Amp, 4 Pole, 415VAC, Red
619	Panel Mounted Appliance Inlet - 16 Amp, 5 Pole, 415VAC, Red
639306	Panel Mounted Appliance Inlet - 32 Amp, 3 Pole, 240VAC, Blue
639406	Panel Mounted Appliance Inlet - 32 Amp, 4 Pole, 415VAC, Red
639	Panel Mounted Appliance Inlet - 32 Amp, 5 Pole, 415VAC, Red
669306	Panel Mounted Appliance Inlet - 63 Amp, 3 Pole, 240VAC, Blue
669	Panel Mounted Appliance Inlet - 63 Amp, 5 Pole, 415VAC, Red

IP67 PANEL MOUNTED APPLIANCE INLET - STRAIGHT



679406	Panel Mounted Appliance Inlet - 125 Amp, 4 Pole, 415VAC, Red
679	Panel Mounted Appliance Inlet - 125 Amp, 5 Pole, 415VAC, Red

CEETYP IP67 PLUGS & SOCKETS

IP67 SURFACE MOUNTED APPLIANCE INLETS



618306	Surface Mounted Appliance Inlet - 16 Amp, 3 Pole, 240VAC, Blue
638	Surface Mounted Appliance Inlet - 32 Amp, 5 Pole, 415VAC, Red
668306	Surface Mounted Appliance Inlet - 63 Amp, 3 Pole, 240VAC, Blue
668406	Surface Mounted Appliance Inlet - 63 Amp, 4 Pole, 415VAC, Red
668	Surface Mounted Appliance Inlet - 63 Amp, 5 Pole, 415VAC, Red
678OK	Surface Mounted Appliance Inlet - 125 Amp, 5 Pole, 415VAC, Red

IP67 ACCESSORIES



613300	Protective Cap - 16 Amp, 3 Pole
613400	Protective Cap - 16 Amp, 4 Pole
613500	Protective Cap - 16 Amp, 5 Pole
633400	Protective Cap - 32 Amp, 3 & 4 Pole
633500	Protective Cap - 32 Amp, 5 Pole
663500	Protective Cap - 63 Amp, 3 & 4 & 5 Pole
673500	Protective Cap - 125 Amp, 3 & 4 & 5 Pole
314500	Suspension Plate for 16 Amp Plugs and Couplers IP67 & IP44
334500	Suspension Plate for 32 Amp Plugs and Couplers IP67 & IP44





CEETYP IP67 CONTAINER PLUGS & SOCKETS

IP67 CONTAINER PLUGS & SOCKETS - 4 POLE 415VAC



- | | |
|----------|---|
| 239403 | Container Plug - 32 Amp, Red, 3H |
| 339403 | Container Coupler - 32 Amp, Red, 3H |
| 139403 | Container Surface Mounted Socket Outlet - 32Amp, Red, 3H |
| AT139403 | Container Surface Mounted Switched Socket Outlet - 32Amp, Red, 3H |
| 439403 | Container Panel Mounted Socket Outlet - 32Amp, Red, 3H |
| 639403 | Container Surface Mounted Appliance Inlet - 32Amp, Red, 3H |



PROCON HEAVY DUTY CONNECTORS - A3/A4/A5

PRODUCT SELECTION GUIDE

Inserts: 3 Pole & Earth, 4 Pole & Earth
- Male & Female



Housing Options in Plastic or Aluminium



Cable Clamping Options



Please note: Housings shown here have the Cable Clamping options fitted

PRODUCT ASSEMBLY PROCEDURE

STEP 1:

Select the type of Inserts required from the following options:

- Screw Terminal with Wire Guard
- Screw Terminal without Wire Guard
- Screwless Terminal
- Crimp Contact Carriers

All Inserts include an Earth Connection.

When selecting Crimp Solutions you need to also include the Crimp Pin (Male) and Crimp Sleeve (Female) items.

STEP 2:

Select Housings from the following options:

- Single or Double Lever Format
- Wall Mounted Housings
- Panel Mounted Housings
- Housings with Covers
- Coupler Hoods
- Hoods with Side Cable Entry
- Hoods with Top Cable Entry

Double Lever solution is not available in all formats.

STEP 3:

Select the Cable Clamping solution from the following options:

- Bush set which comes complete with nickel coated brass bush, washers and "onion ring" type seal
- Metal Gland which is supplied complete with nickel coated brass collar, brass bush, washers and "onion ring" type seal

Cable clamping solutions are available from Wiska such as compression glands in both nickel plated brass and nylon, spiral glands and trumpet glands.

Please refer to the Wiska section of the catalogue for further product solutions.

PROCON HEAVY DUTY CONNECTORS - A3/A4/A5

A3/A4 SERIES - 3 POLE & EARTH / 4 POLE & EARTH INSERTS - 400V/10A



700103

- 700103 Female - 3 Pole & Earth Screw Connection Insert, 0.5 to 1.5 mm²
- 700203 Male - 3 Pole & Earth Screw Connection Insert, 0.5 to 1.5 mm²
- 700104 Female - 4 Pole & Earth Screw Connection Insert, 0.5 to 1.5 mm²
- 700204 Male - 4 Pole & Earth Screw Connection Insert, 0.5 to 1.5 mm²

A5 SERIES - 5 POLE & EARTH CRIMP INSERTS - 400V/16A



700105

- 700105 Crimp Contact Carrier for Sleeve Contacts (female) - 5 Pole & Earth - 0.14-2.5mm²
- 700205 Crimp Contact Carrier for Sleeve Contact Pin (male) - 5 Pole & Earth - 0.14-2.5mm²
- 710508 Crimp Sleeve Contact B Series - 0.14-0.37mm²
- 710504 Crimp Sleeve Contact B Series - 0.5 mm²
- 710509 Crimp Sleeve Contact B Series - 0.75mm²
- 710500 Crimp Sleeve Contact B Series - 1 mm²
- 710501 Crimp Sleeve Contact B Series - 1.5 mm²
- 710502 Crimp Sleeve Contact B Series - 2.5 mm²
- 710518 Crimp Pin Contact B Series - 0.14-0.37mm²
- 710514 Crimp Pin Contact B Series - 0.5 mm²
- 710519 Crimp Pin Contact B Series - 0.75mm²
- 710510 Crimp Pin Contact B Series - 1 mm²
- 710511 Crimp Pin Contact B Series - 1.5 mm²
- 710512 Crimp Pin Contact B Series - 2.5 mm²
- 700734 Coding Pin suitable for Crimp Contact Carriers



710501



710511

HOODS & HOUSINGS ALUMINIUM - IP65 GREY



704303

- T701403 Wall Housing - Single Lever System - with M20 Threaded Hole - Height 25.5mm
- 704303 Panel Housing - Single Lever - Height 24mm
- 704403 Panel Housing with Spring Cover - Single Lever - Height 24mm
- 7044030D Panel Housing with Spring Cover - Single Lever - Height 24mm for male insert
- 704503 Angle Panel Housing - Single Lever - Height 25.5mm
- T702803MS Hood - Top Entry Single Lever - with M20 Collar - Height 57mm
- T702603MS Angle Hood - Top Entry Single Lever System - with M20 Collar - Height 48mm
- T703803MS Coupler Hood - Top Entry Single Lever System - with M20 Collar - Height 60.5mm



T702803MS & 717637

PROCON HEAVY DUTY CONNECTORS - A3/A4/A5

HOODS & HOUSINGS PLASTIC - IP65 GREY



700621

- | | |
|---------------|--|
| 700621 | Panel Housing - Single Lever - Height 24mm |
| 700622 | Angle Panel Housing - Single Lever - Height 25.5mm |
| T700620 | Wall Housing - Single Lever - M25 Entry - Height 24mm |
| T700624MS | Angle Hood - Top Entry Single Lever System - with M20 Collar - Height 48mm |
| T700625MS | Hood -Top Entry Single Lever System - with M20 Collar - Height 57mm |
| T700623MS | Coupler Hood - Top Entry Single Lever System - with M20 Collar - Height 60.5mm |



PROCON HEAVY DUTY CONNECTORS - A10

A10 SERIES - 10 POLE & EARTH INSERTS - 250V/16AMP



- 700110** Female - 10 Pole & Earth Insert - Screw Connection, 0.5 to 2.5 mm²
- 700210** Male - 10 Pole & Earth Insert - Screw Connection, 0.5 to 2.5 mm²

HOODS & HOUSINGS - SINGLE LEVER - IP65



T702610MS &
717637

- T702610MS** Hood - Side Entry Single Lever - with M20 Collar - Height 53mm - IP65
- T708710** Hood - Side Entry Single Lever - with M25 Threaded Hole - Height 66mm - IP65
- 704310** Panel Housing - Single Lever - Height 26mm - IP65
- 704410** Panel Housing with Spring Cover - Single Lever - Height 26mm - IP65

PROCON HEAVY DUTY CONNECTORS - A16

A16 SERIES - 16 POLE & EARTH INSERTS - 250V/16AMP



- | | |
|---------------|---|
| 700116 | Female 16 Pole & Earth Screw Connection Insert, 0.5 to 2.5mm ² |
| 700216 | Male 16 Pole & Earth Screw Connection Insert, 0.5 to 2.5mm ² |

A16 SERIES - 16 POLE & EARTH CRIMP INSERTS - 250V/16AMP



700416



710501



710511

- | | |
|---------------|--|
| 700316 | Crimp Contact Carrier for Sleeve (Female) - 6 Pole & Earth - 0.5 to 4mm ² |
| 700416 | Crimp Contact Carrier for Pin Contacts (Male) - 6 Pole & Earth - 0.5 to 4mm ² |
| 710508 | Crimp Sleeve Contact B Series - 0.14-0.37mm ² |
| 710504 | Crimp Sleeve Contact B Series - 0.5 mm ² |
| 710509 | Crimp Sleeve Contact B Series - 0.75mm ² |
| 710500 | Crimp Sleeve Contact B Series - 1 mm ² |
| 710501 | Crimp Sleeve Contact B Series - 1.5 mm ² |
| 710502 | Crimp Sleeve Contact B Series - 2.5 mm ² |
| 710503 | Crimp Sleeve Contacts B Series - 4.0 mm ² |
| 710518 | Crimp Pin Contact B Series - 0.14-0.37mm ² |
| 710514 | Crimp Pin Contact B Series - 0.5 mm ² |
| 710519 | Crimp Pin Contact B Series - 0.75mm ² |
| 710510 | Crimp Pin Contact B Series - 1 mm ² |
| 710511 | Crimp Pin Contact B Series - 1.5 mm ² |
| 710512 | Crimp Pin Contact B Series - 2.5 mm ² |
| 710513 | Crimp Pin Contacts B Series - 4.0 mm ² |
| 700734 | Coding Pin suitable for Crimp Contact Carriers |

HOODS & HOUSINGS - SINGLE LEVER - IP65



T702616MS & 717637

- | | |
|------------------|---|
| T702616MS | Hood - Side Entry Single Lever System - with M20 Collar - Height 58mm |
| T702816MS | Hood - Top Entry Single Lever System - with M20 Collar - Height 58mm |
| 704316 | Panel Housing - Single Lever System - Height 26mm - IP65 |

PROCON HEAVY DUTY CONNECTORS - A32

A32 SERIES - 32 POLE & EARTH INSERTS - 250V/16AMP



700116 & 700132

700116	Female 16 Pole & Earth Screw Connection Insert, 0.5 to 2.5 mm ²
700132	Female 16 Pole & Earth Screw Connection Insert, 0.5 to 2.5 mm ² (17-32)
700216	Male 16 Pole & Earth Screw Connection Insert, 0.5 to 2.5 mm ²
700232	Male 16 Pole & Earth Screw Connection Insert, 0.5 to 2.5 mm ² (17-32)

A32 SERIES - 32 POLE & EARTH CRIMP INSERTS - 250V/16AMP



700316



710500



710510

700316	Crimp Contact Carrier for Sleeve Contacts - 16 Pole & Earth, 0.5 to 4 mm ²
700416	Crimp Contact Carrier for Pin Contacts - 16 Pole & Earth, 0.5 to 4 mm ²
700332	Crimp Contact Carrier for Sleeve Contacts - 16 Pole & Earth, (17/32)
700432	Crimp Contact Carrier for Pin Contacts - 16 Pole & Earth, (17-32)
710508	Crimp Sleeve Contact B Series - 0.14-0.37mm ²
710504	Crimp Sleeve Contact B Series - 0.5 mm ²
710509	Crimp Sleeve Contact B Series - 0.75mm ²
710500	Crimp Sleeve Contact B Series - 1 mm ²
710501	Crimp Sleeve Contact B Series - 1.5 mm ²
710502	Crimp Sleeve Contact B Series - 2.5 mm ²
710503	Crimp Sleeve Contacts B Series - 4.0 mm ²
710518	Crimp Pin Contact B Series - 0.14-0.37mm ²
710514	Crimp Pin Contact B Series - 0.5 mm ²
710519	Crimp Pin Contact B Series - 0.75mm ²
710510	Crimp Pin Contact B Series - 1 mm ²
710511	Crimp Pin Contact B Series - 1.5 mm ²
710512	Crimp Pin Contact B Series - 2.5 mm ²
710513	Crimp Pin Contacts B Series - 4.0 mm ²
700734	Coding Pin suitable for Crimp Contact Carriers

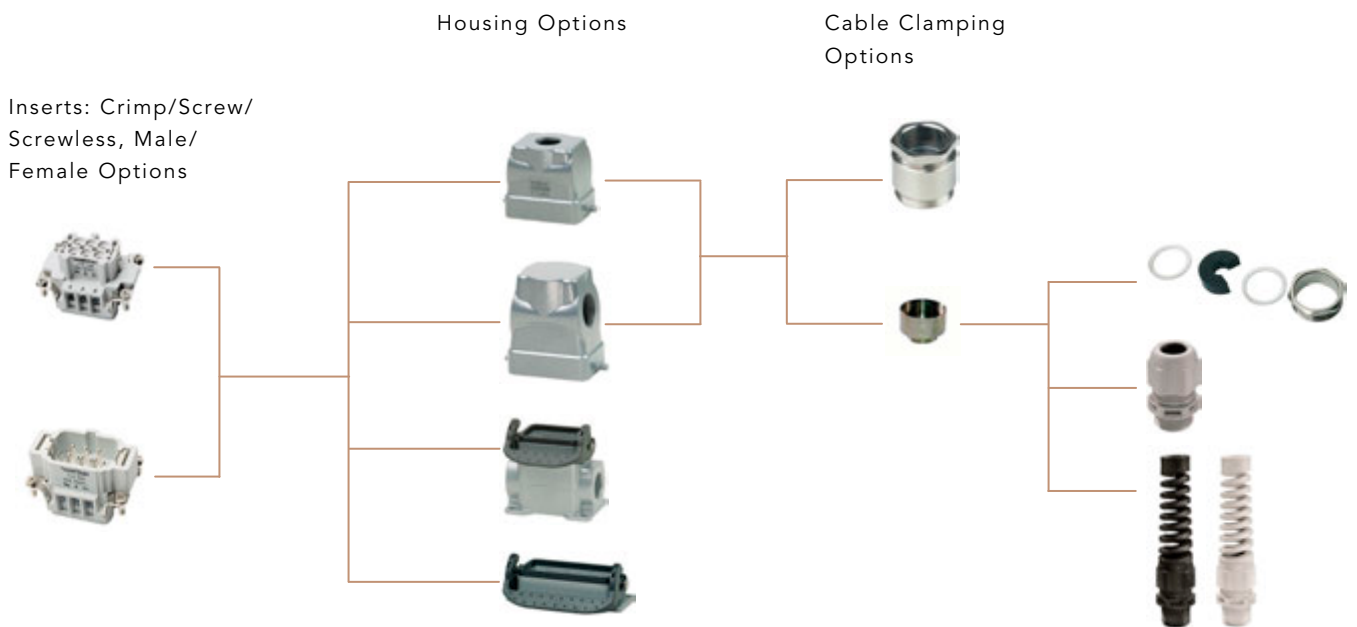
HOODS & HOUSING - DOUBLE LEVER - IP65



T708132	Hood - Side Entry Double Lever System - with M32 Threaded Hole - Height 76mm
704132	Panel Housing - Double Lever System - Height 28mm - IP65

PROCON HEAVY DUTY CONNECTORS - B SERIES

PRODUCT SELECTION GUIDE



PRODUCT ASSEMBLY PROCEDURE

STEP 1:

Select the type of Inserts required from the following options:

- Screw Terminal with Wire Guard
- Screw Terminal without Wire Guard
- Screwless Terminal
- Crimp Contact Carriers

All Inserts include an Earth Connection.

When selecting Crimp Solutions you need to also include the Crimp Pin (Male) and Crimp Sleeve (Female) items.

STEP 2:

Select Housings from the following options:

- Single or Double Lever Format
- Wall Mounted Housings
- Panel Mounted Housings
- Housings with Covers
- Coupler Hoods
- Hoods with Side Cable Entry
- Hoods with Top Cable Entry

Double Lever solution is not available in all formats.

STEP 3:

Select the Cable Clamping solution from the following options:

- Bush set which comes complete with nickel coated brass bush, washers and "onion ring" type seal
- Metal Gland which is supplied complete with nickel coated brass collar, brass bush, washers and "onion ring" type seal

Other cable clamping solutions are available from Wiska such as compression glands in both nickel plated brass and nylon, spiral glands and trumpet glands.

Please refer to the Wiska section of the catalogue for further product solutions.

PROCON HEAVY DUTY CONNECTORS - B6

B6 SERIES - 6 POLE & EARTH INSERTS - 500V/16AMP



- 710106 Female 6 Pole & Earth Screw Connection Insert with Wire Guard - 0.5 to 2.5mm²
- 710206 Male 6 Pole & Earth Screw Connection Insert with Wire Guard - 0.5 to 2.5mm²
- 710769 Female 6 Pole & Earth Screw Connection Insert without Wire Guard - 0.5 to 4mm²
- 710773 Male 6 Pole & Earth Screw Connection Insert without Wire Guard - 0.5 to 4mm²

710106

- 71010604 Female 6 Pole & Earth Insert with Push-In Terminals - 0.5 to 2.5mm²



- 71020604 Male 6 Pole & Earth Insert with Push-In Terminals - 0.5 to 2.5mm²

710607

- 710607 Coding Pin

B6 SERIES - 6 POLE & EARTH CRIMP INSERTS - 500V/16AMP



- 710306 Crimp Contact Carrier for Sleeve Contacts (Female) - 6 Pole & Earth - 0.5 to 4mm²

- 710406 Crimp Contact Carrier for Pin Contacts (Male) - 6 Pole & Earth - 0.5 to 4mm²

- 710508 Crimp Sleeve Contact B Series - 0.14-0.37mm²

- 710504 Crimp Sleeve Contact B Series - 0.5 mm²

710406

- 710509 Crimp Sleeve Contact B Series - 0.75mm²

- 710500 Crimp Sleeve Contact B Series - 1 mm²

- 710501 Crimp Sleeve Contact B Series - 1.5 mm²



710501

- 710502 Crimp Sleeve Contact B Series - 2.5 mm²

- 710503 Crimp Sleeve Contacts B Series - 4.0 mm²

- 710518 Crimp Pin Contact B Series - 0.14-0.37mm²



710511

- 710514 Crimp Pin Contact B Series - 0.5 mm²

- 710519 Crimp Pin Contact B Series - 0.75mm²

- 710510 Crimp Pin Contact B Series - 1 mm²

- 710511 Crimp Pin Contact B Series - 1.5 mm²

- 710512 Crimp Pin Contact B Series - 2.5 mm²

- 710513 Crimp Pin Contacts B Series - 4.0 mm²

- 700734 Coding Pin suitable for Crimp Contact Carriers

HOODS - SINGLE LEVER - IP65



P712806

- P712606 Hood - Side Entry Single Lever System - with M20 Threaded Hole - Height 56mm

- P758624 Hood - Side Entry Single Lever System - with M25 Threaded Hole - Height 72mm

- P712806 Hood - Top Entry Single Lever System - with M20 Threaded Hole - Height 56mm

- P758824 Hood - Top Entry Single Lever System - with M25 Threaded Hole - Height 72mm

- P713806 Coupler Hood - Top Entry Single Lever System - with M20 Threaded Hole - 61.5mm

- P753824 Coupler Hood - Top Entry Single Lever System - with M25 Threaded Hole - 77.5mm

- P753824AQ Coupler Hood - Top Entry Single Lever (Steel) - with M25 Threaded Hole - 77.5mm

WALL & PANEL HOUSINGS - SINGLE LEVER - IP65



714306

- 714306 Panel Housing - Single Lever System - Height 28mm

- 714306AQ Panel Housing - Single Lever System (Steel) - Height 28mm

- P711406MS Wall Housing - Single Lever - with M20 Collar - Height 53mm

- 714406 Panel Housing with Hinged Cover - Single Lever - Height 28mm

- 714406SK Panel Housing with Self Closing Spring Cover - Single Lever - Height 28mm

ACCESSORIES



710630

- 710630 Protective Cap - Single Lever - Plastic - Height 18mm

- 710630AL Protective Cap - Single Lever - Aluminium - Height 18mm

PROCON HEAVY DUTY CONNECTORS - B6

B10 SERIES - 10 POLE & EARTH INSERTS - 500V/16AMP



710110



710607

710110	Female 10 Pole & Earth Screw Connection Insert with Wire Guard, 0.5 - 2.5 mm ²
710210	Male 10 Pole & Earth Screw Connection Insert with Wire Guard, 0.5 - 2.5 mm ²
710770	Female 10 Pole & Earth Screw Connection Insert without Wire Guard, 0.5 - 4 mm ²
710774	Male 10 Pole & Earth Screw Connection Insert without Wire Guard, 0.5 - 4 mm ²
71011004	Female 10 Pole & Earth Insert with Push in Terminals 0.5 - 2.5mm ²
71021004	Male 10 Pole & Earth Insert with Push in Terminals 0.5 - 2.5mm ²
710607	Coding Pin

B10 SERIES - 10 POLE & EARTH CRIMP INSERTS - 500V/16AMP



710410



710511



710500

710310	Crimp Contact Carrier for Sleeve Contacts - 0.5 to 4 mm ²
710410	Crimp Contact Carrier for Pin Contacts - 0.5 to 4 mm ²
710508	Crimp Sleeve Contact B Series - 0.14-0.37mm ²
710504	Crimp Sleeve Contact B Series - 0.5 mm ²
710509	Crimp Sleeve Contact B Series - 0.75mm ²
710500	Crimp Sleeve Contact B Series - 1 mm ²
710501	Crimp Sleeve Contact B Series - 1.5 mm ²
710502	Crimp Sleeve Contact B Series - 2.5 mm ²
710503	Crimp Sleeve Contacts B Series - 4.0 mm ²
710518	Crimp Pin Contact B Series - 0.14-0.37mm ²
710514	Crimp Pin Contact B Series - 0.5 mm ²
710519	Crimp Pin Contact B Series - 0.75mm ²
710510	Crimp Pin Contact B Series - 1 mm ²
710511	Crimp Pin Contact B Series - 1.5 mm ²
710512	Crimp Pin Contact B Series - 2.5 mm ²
710513	Crimp Pin Contacts B Series - 4.0 mm ²
700734	Coding Pin suitable for Crimp Contact Carriers

HOODS - DOUBLE LEVER - IP65



P712210

P712110	Hood - Side Entry Double Lever System - with M20 Threaded Hole - Height 56mm
P758042	Hood - Side Entry Double Lever System - with M25 Threaded Hole - Height 56mm
P758142	Hood - Side Entry Double Lever System - with M32 Threaded Hole - Height 72mm
P712210	Hood - Top Entry Double Lever System - with M20 Threaded Hole - Height 56mm
P712310	Hood - Top Entry Double Lever System - with M25 Threaded Hole - Height 56mm
P758342	Hood - Top Entry Double Lever System - with M32 Threaded Hole - Height 72mm
P713610	Coupler Hood - Top Entry Double Lever System - with M20 Threaded Hole - 61.5mm
P753742	Coupler Hood - Top Entry Double Lever System - with M32 Threaded Hole - 77.5mm

WALL & PANEL HOUSINGS - DOUBLE LEVER - IP65



714110

714110	Panel Housing - Double Lever System - Height 28mm
P711010MS	Wall Housing with Single M20 Collar - Double Lever System - Height 53mm
P757042MS	Wall Housing with Single M32 Collar - Double Lever System - Height 74mm

PROCON HEAVY DUTY CONNECTORS - B10

ACCESSORIES - DOUBLE LEVER



- 710624** Protective Cap with retaining cord - Double Lever System - Plastic - Height 18mm
710624AL Protective Cap with retaining cord - Double Lever System - Aluminium - Height 18mm

710624

HOODS - SINGLE LEVER - IP65



- P712610** Hood - Side Entry Single Lever System - with M20 Threaded Hole - Height 56mm
P758642 Hood - Side Entry Single Lever System - with M25 Threaded Hole - Height 72mm
P712810 Hood - Side Entry Single Lever System - with M20 Threaded Hole - Height 56mm
P758842 Hood - Top Entry Single Lever System - with M25 Threaded Hole - Height 72mm
P713810 Coupler Hood - Top Entry Single Lever System - with M20 Threaded Hole - 61.5mm
P753842 Coupler Hood - Top Entry Single Lever System - with M25 Threaded Hole - 77.5mm
P753842AQ Coupler Hood - Top Entry Single Lever (Steel) - with M25 Threaded Hole - 77.5mm

P758642

WALL & PANEL HOUSINGS - SINGLE LEVER - IP65



- 714310** Panel Housing - Single Lever System - Height 28mm
714310AQ Panel Housing - Single Lever System (Steel Lever) - Height 28mm
714410 Panel Housing with Spring Cover - Single Lever System - Height 27mm plus cover
P711410MS Wall Housing with Single M20 Collar - Single Lever System - Height 74mm

714310

ACCESSORIES - SINGLE LEVER



- 710632** Protective Cap - Single Lever System - Plastic - Height 18mm
710632AL Protective Cap - Single Lever System - Aluminium - Height 18mm

HOODS & HOUSINGS - REVERSE DOUBLE LEVER - IP65



- P753242** Hood with clips - Top Entry Double Locking System - with M25 Threaded Hole - 72mm
P753342 Hood with clips - Top Entry Double Locking System - with M32 Threaded Hole - 72mm
714210 Panel Housing with Spring Cover without clips - Double Locking - 27mm plus Cover

PROCON HEAVY DUTY CONNECTORS - B16

B16 SERIES - 16 POLE & EARTH INSERT - 500V/16AMP



710116 Female Insert - 16 Pole - Screw Term. plus Wire Guard - 500V, / 16A, 0.5 to 2.5 mm²

710216 Male Insert - 16 Pole - Screw Term. plus Wire Guard - 500V / 16A, 0.5 to 2.5 mm²

710116

710771 Female Insert - 16 Pole - Screw Term. no Wire Guard - 500V / 16A, 0.5 to 4 mm²

710775 Male Insert - 16 Pole - Screw Term. no Wire Guard - 500V / 16A, 0.5 to 4 mm²



710607

71011604 Female 16 Pole & Earth Insert with Push-in Terminals - 0.5 to 2.5mm²

71021604 Male 16 Pole & Earth Insert with Push-in Terminals - 0.5 to 2.5mm²

710607 Coding Pin

B16 SERIES - 16 POLE & EARTH INSERT - 500V/16AMP



710316 Crimp Contact Carrier for Sleeve Contacts - 16 Pole 500V, 16 Amps, 0.5 to 4 mm²

710416 Crimp Contact Carrier for Pin Contacts - 16 Pole 500V, 16 Amps, 0.5 to 4 mm²

710316

710504 Crimp Sleeve Contact B Series - 0.5 mm²

710509 Crimp Sleeve Contact B Series - 0.75mm²



710500 Crimp Sleeve Contact B Series - 1 mm²

710501

710501 Crimp Sleeve Contact B Series - 1.5 mm²

710502 Crimp Sleeve Contact B Series - 2.5 mm²



710511

710503 Crimp Sleeve Contacts B Series - 4.0 mm²

710518 Crimp Pin Contact B Series - 0.14-0.37mm²

710514 Crimp Pin Contact B Series - 0.5 mm²

710519 Crimp Pin Contact B Series - 0.75mm²

710510 Crimp Pin Contact B Series - 1 mm²

710511 Crimp Pin Contact B Series - 1.5 mm²

710512 Crimp Pin Contact B Series - 2.5 mm²

710513 Crimp Pin Contacts B Series - 4.0 mm²

700734 Coding Pin suitable for Crimp Contact Carriers

HOODS - DOUBLE LEVER - IP65



P728140

P718016 Hood - Side Entry Double Lever - with M25 Threaded Hole - Height 65mm

P728140 Hood - Side Entry Double Lever - with M32 Threaded Hole - Height 76mm

P72814040 Hood - Side Entry Double Lever - with M40 Threaded Hole - Height 76mm

P718216 Hood - Top Entry Double Lever - with M25 Threaded Hole - Height 65mm

P718316 Hood - Top Entry Double Lever - with M32 Threaded Hole - Height 65mm

P713616 Coupler Hood - Top Entry Double Lever - with M25 Threaded Hole - Height 70.5mm

P753772 Coupler Hood - Top Entry Double Lever - with M32 Threaded Hole - Height 81.5mm

P75377240 Coupler Hood - Top Entry Double Lever - with M40 Threaded Hole - Height 81.5mm

WALL & PANEL HOUSINGS - DOUBLE LEVER - IP65



714116

714116 Panel Housing - Double Lever - Height 28mm

P711016MS Wall Housing with Single M25 Collar - Double Lever - Height 68mm

P75707240MS Wall Housing with Single M40 Collar - Double Lever - Height 84mm

PROCON HEAVY DUTY CONNECTORS - B16

ACCESSORIES - DOUBLE LEVER



- 710626** Protective Cap - Single Lever - Plastic - Height 18mm
710626AL Protective Cap - Double Locking System - Aluminium - Height 18mm

HOODS - SINGLE LEVER - IP65



718916

- P718616** Hood - Side Entry Single Lever - with M25 Threaded Hole - Height 65mm
P718716 Hood - Side Entry Single Lever - with M32 Threaded Hole - Height 65mm
P72874040 Hood - Side Entry Single Lever - with M40 Threaded Hole - Height 76mm
P718816 Hood - Top Entry Single Lever - with M25 Threaded Hole - Height 65mm
P718916 Hood - Top Entry Single Lever - with M32 Threaded Hole - Height 65mm
P713816 Coupler Hood - Top Entry Single Lever - with M25 Threaded Hole - Height 70.5mm
P713916 Coupler Hood - Top Entry Single Lever - with M32 Threaded Hole - Height 70.5mm

WALL & PANEL HOUSINGS - SINGLE LEVER - IP65



714316

- 714316** Panel Housing - Single Lever System - Height 27mm
714416 Panel Housing with Spring Cover - Single Lever System - Height 27mm plus Cover
P711416MS Wall Housing with Single M25 Collar - Single Lever System - Height 68mm
P711616MS Wall Housing with Spring Cover & Single M25 Collar - Single Locking - 68mm plus Cover



ACCESSORIES - SINGLE LEVER






- 710634** Protective Cap - Single Lever - Plastic - Height 18mm
710634AL Protective Cap - Single Lever - Aluminium - Height 18mm

PROCON HEAVY DUTY CONNECTORS - B24


B24 SERIES - 24 POLE & EARTH INSERTS - 500V/16AMP

	710124	Female Insert - 24 Pole - Screw Term. plus Wire Guard - 500V / 16A, 0.5 to 2.5mm ²
	710224	Male Insert - 24 Pole - Screw Term. plus Wire Guard - 500V / 16A, 0.5 to 2.5 mm ²
710124	710772	Female Insert - 24 Pole - Screw Term. no Wire Guard - 500V / 16A, 0.5 to 4 mm ²
	710776	Male Insert - 24 Pole - Screw Term. no Wire Guard - 500V / 16A, 0.5 to 4 mm ²
	71012404	Female 24 Pole & Earth Insert Push-in Terminals, 0.5 to 25mm ²
	71022404	Male 24 Pole & Earth Insert Push-in Terminals, 0.5 to 25mm ²
710224	710 607	Coding Pin


B24 SERIES - 24 POLE CRIMP INSERTS - 500V/16AMP

	710324	Crimp Contact Carrier for Sleeve Contacts - 24 Pole 500V, 16 Amps, 0.5 to 4 mm ²
	710424	Crimp Contact Carrier for Pin Contacts - 24 Pole 500V, 16 Amps, 0.5 to 4 mm ²
710324	710508	Crimp Sleeve Contact B Series - 0.14-0.37mm ²
	710504	Crimp Sleeve Contact B Series - 0.5 mm ²
	710509	Crimp Sleeve Contact B Series - 0.75mm ²
	710500	Crimp Sleeve Contact B Series - 1 mm ²
710501	710501	Crimp Sleeve Contact B Series - 1.5 mm ²
	710502	Crimp Sleeve Contact B Series - 2.5 mm ²
	710503	Crimp Sleeve Contacts B Series - 4.0 mm ²
710511	710518	Crimp Pin Contact B Series - 0.14-0.37mm ²
	710514	Crimp Pin Contact B Series - 0.5 mm ²
	710519	Crimp Pin Contact B Series - 0.75mm ²
	710510	Crimp Pin Contact B Series - 1 mm ²
	710511	Crimp Pin Contact B Series - 1.5 mm ²
	710512	Crimp Pin Contact B Series - 2.5 mm ²
	710513	Crimp Pin Contacts B Series - 4.0 mm ²
	700734	Coding Pin suitable for Crimp Contact Carriers

HOODS - DOUBLE LEVER - IP65

	P712024	Hood - Side Entry Double Lever - with M25 Threaded Hole - Height 65mm
	P712124	Hood - Side Entry Double Lever - with M32 Threaded Hole - Height 65mm
	P71812440	Hood - Side Entry Double Lever - with M40 Threaded Hole - Height 76mm
	P712224	Hood - Top Entry Double Lever - with M25 Threaded Hole - Height 65mm
P712124	P718324	Hood - Top Entry Double Lever - with M32 Threaded Hole - Height 65mm
	P71832440	Hood - Top Entry Double Lever - with M40 Threaded Hole - Height 76mm

WALL & PANEL HOUSINGS - DOUBLE LEVER - IP65

	714124	Panel Housing - Double Lever - Height 28mm
	P711024MS	Wall Housing with Single M25 Collar - Double Lever - Height 68mm
	P757008MS	Wall Housing with Single M32 Collar - Double Lever - Height 84mm
P711024MS	P75700840MS	Wall Housing with Single M40 Collar - Double Lever - Height 84mm

PROCON HEAVY DUTY CONNECTORS - B24

HOOD - SINGLE LEVER - IP65



P712724

- P712624** Hood - Side Entry Single Lever - with M25 Threaded Hole - Height 65mm
- P712724** Hood - Side Entry Single Lever - with M32 Threaded Hole - Height 65mm
- P71872440 Hood - Side Entry Single Lever - with M40 Threaded Hole - Height 76mm
- P712824** Hood - Top Entry Single Lever - with M25 Threaded Hole - Height 65mm
- P718924** Hood - Top Entry Single Lever - with M32 Threaded Hole - Height 76mm
- P71892440 Hood - Top Entry Single Lever - with M40 Threaded Hole - Height 76mm
- P753808 Coupler Hood - Top Entry Single Lever - with M25 Threaded Hole - Height 70.5mm
- P71392440 Coupler Hood - Top Entry Single Lever - with M40 Threaded Hole - Height 81.5mm

WALL & PANEL HOUSINGS - SINGLE LEVER - IP65



- 714324** Panel Housing - Single Lever - Height 28mm
- P711424MS** Wall Housing with Single M25 Collar - Single Lever - Height 68mm

PROCON HEAVY DUTY CONNECTORS - B32

B32 SERIES - 32 POLE & EARTH INSERTS - 500V/16AMP



710116 & 710132

- 710116** Female - 16 Pole & Earth Screw Insert with Wire Guard, 0.5 to 2.5 mm²
- 710216** Male - 16 Pole & Earth Screw Insert with Wire Guard, 0.5 to 2.5 mm²
- 710132** Female - 16 Pole & Earth Screw Insert with Wire Guard, 0.5-2.5 mm² (17-32)
- 710232** Male - 16 Pole & Earth Screw Insert with Wire Guard, 0.5 to 2.5 mm² (17-32)
- 710607** Coding Pin

B32 SERIES - 32 POLE & EARTH CRIMP - 500V/16AMP



710316 & 710332



710511



710500

- 710316** Crimp Contact Carrier for Sleeve Contacts - 16 Pole 500V, 16 Amps, 0.5 to 4 mm²
- 710416** Crimp Contact Carrier for Pin Contacts - 16 Pole 500V, 16 Amps, 0.5 to 4 mm²
- 710332** Crimp Contact Carrier for Sleeve Contacts - 16 Pole 500V/16A, 0.5 to 4 mm² (17-32)
- 710432** Crimp Contact Carrier for Pin Contacts - 16 Pole 500V/16A, 0.5 to 4 mm² (17-32)
- 710508** **Crimp Sleeve Contact B Series - 0.14-0.37mm²**
- 710504** **Crimp Sleeve Contact B Series - 0.5 mm²**
- 710509** **Crimp Sleeve Contact B Series - 0.75mm²**
- 710500** **Crimp Sleeve Contact B Series - 1 mm²**
- 710501** **Crimp Sleeve Contact B Series - 1.5 mm²**
- 710502** **Crimp Sleeve Contact B Series - 2.5 mm²**
- 710503** **Crimp Sleeve Contacts B Series - 4.0 mm²**
- 710518** **Crimp Pin Contact B Series - 0.14-0.37mm²**
- 710514** **Crimp Pin Contact B Series - 0.5 mm²**
- 710519** **Crimp Pin Contact B Series - 0.75mm²**
- 710510** **Crimp Pin Contact B Series - 1 mm²**
- 710511** **Crimp Pin Contact B Series - 1.5 mm²**
- 710512** **Crimp Pin Contact B Series - 2.5 mm²**
- 710513** **Crimp Pin Contacts B Series - 4.0 mm²**
- 700734** Coding Pin suitable for Crimp Contact Carriers

HOODS & HOUSINGS - DOUBLE LEVER - IP65



- T718132** Hood - Side Entry Double Lever - with M32 Threaded Hole - Height 80mm - IP65
- T718332** Hood - Top Entry Double Lever - with M32 Threaded Hole - Height 80mm - IP65
- T714132** Panel Housing - Double Lever - Height 30mm - IP65

PROCON HEAVY DUTY CONNECTORS - BA6/BB

BA6 SERIES - 6 POLE & EARTH - 690V/35AMP



710621

710620 Female 6 Pole & Earth Screw Terminal Insert plus Wire Guard, 0.5 to 6 mm²

710621 Male 6 Pole & Earth Screw Terminal Insert plus Wire Guard, 0.5 to 6 mm²

Please select Housings from B16 Range

BB10 SERIES - 10 POLE & EARTH CRIMP INSERTS 500V/16AMP



710311 Crimp Contact Carrier for Sleeve Contacts - 10 Pole & Earth

710411 Crimp Contact Carrier for Pin Contacts - 10 Pole & Earth

Please select Housings from B6 Range & Crimp Inserts below

BB18 SERIES - 18 POLE & EARTH CRIMP INSERTS 500V/16AMP



710318 Crimp Contact Carrier for Sleeve Contacts - 18 Pole & Earth

710418 Crimp Contact Carrier for Pin Contacts - 18 Pole & Earth

Please select Housings from B10 Range & Crimp Inserts below

BB32 SERIES - 32 POLE & EARTH CRIMP INSERTS 500V/16AMP



710333 Crimp Contact Carrier for Sleeve Contacts - 32 Pole & Earth

710433 Crimp Contact Carrier for Pin Contacts - 32 Pole & Earth

Please select Housings from B16 Range & Crimp Inserts below

BB46 SERIES - 46 POLE & EARTH CRIMP INSERTS 500V/16AMP



710346 Crimp Contact Carrier for Sleeve Contacts - 46 Pole & Earth

710446 Crimp Contact Carrier for Pin Contacts - 46 Pole & Earth

Please select Housings from B24 Range & Crimp Inserts below

CRIMP SLEEVES & PINS



710511

710508 Crimp Sleeve Contact B Series - 0.14-0.37mm²

710504 Crimp Sleeve Contact B Series - 0.5 mm²

710509 Crimp Sleeve Contact B Series - 0.75mm²



710500

710500 Crimp Sleeve Contact B Series - 1 mm²

710501 Crimp Sleeve Contact B Series - 1.5 mm²

710502 Crimp Sleeve Contact B Series - 2.5 mm²

710518 Crimp Pin Contact B Series - 0.14-0.37mm²

710514 Crimp Pin Contact B Series - 0.5 mm²

710519 Crimp Pin Contact B Series - 0.75mm²

710510 Crimp Pin Contact B Series - 1 mm²

710511 Crimp Pin Contact B Series - 1.5 mm²

710512 Crimp Pin Contact B Series - 2.5 mm²

HEAVY DUTY CONNECTORS - D7/D8/D25

D7/D8 SERIES - 7 POLE & EARTH/8 POLE & EARTH CRIMP INSERTS - 250V/10AMP



720307

720307 Female 7 Pole Insert for Sleeve Contacts, 0.5 to 2.5 mm²



720407

720407 Male 7 Pole Insert for Sleeve Contacts, 0.5 to 1.5 mm²



720308

720308 Female 8 Pole Insert for Sleeve Contacts, 0.5 to 2.5 mm²

720408 Male 8 Pole Insert for Sleeve Contacts, 0.5 to 1.5 mm²

720506 Sleeve Contacts D Series - 0.14 - 0.37 mm²

720507 Sleeve Contacts D Series - 0.5 mm²

720508 Sleeve Contacts D Series - 0.75 - 1 mm²

720509 Sleeve Contacts D Series - 1.5 mm²

720502 Sleeve Contacts D Series - 2.5 mm²

720516 Pin Contacts D Series - 0.14 - 0.37 mm²

720517 Pin Contacts D Series - 0.5 mm²

720518 Pin Contacts D Series - 0.75 - 1 mm²

720519 Pin Contacts D Series - 1.5 mm²

720512 Pin Contacts D Series - 2.5 mm²



720506

Please select Housings from A3 Range

D25 SERIES - 25 POLE & EARTH CRIMP INSERTS - 250V/10AMP



720325

720325 Crimp Contact Carrier for Sleeve Contacts (female) - 25 Pole & Earth 0.14-2.5 mm²

720425 Crimp Contact Carrier for Pin Contacts (male) - 25 Pole & Earth, 0.14 to 2.5 mm²

720506 Sleeve Contacts D Series - 0.14 - 0.37 mm²

720507 Sleeve Contacts D Series - 0.5 mm²

720508 Sleeve Contacts D Series - 0.75 - 1 mm²

720509 Sleeve Contacts D Series - 1.5 mm²

720502 Sleeve Contacts D Series - 2.5 mm²

720516 Pin Contacts D Series - 0.14 - 0.37 mm²

720517 Pin Contacts D Series - 0.5 mm²

720518 Pin Contacts D Series - 0.75 - 1 mm²

720519 Pin Contacts D Series - 1.5 mm²

720512 Pin Contacts D Series - 2.5 mm²



72050900



720519

Please select Housings from A16 Range

PROCON HEAVY DUTY CONNECTORS - D40/D64/DD42

D40 SERIES - 40 POLE & EARTH CRIMP INSERTS - 250V/10AMP



720340

720340 40 Pole - Crimp Carrier Sleeve Contacts, 0.14 to 2.5 mm²

720440 40 Pole - Crimp Carrier Pin Contacts, 0.14 to 2.5 mm²

720506 Sleeve Contacts D Series - 0.14 - 0.37 mm²

720507 Sleeve Contacts D Series - 0.5 mm²

720508 Sleeve Contacts D Series - 0.75 - 1 mm²

720509 Sleeve Contacts D Series - 1.5 mm²

720502 Sleeve Contacts D Series - 2.5 mm²

720516 Pin Contacts D Series - 0.14 - 0.37 mm²

720517 Pin Contacts D Series - 0.5 mm²

720518 Pin Contacts D Series - 0.75 - 1 mm²

720519 Pin Contacts D Series - 1.5 mm²

720512 Pin Contacts D Series - 2.5 mm²

Please select Housings from B16 Range



720440



720519

D64 SERIES - 64 POLE & EARTH CRIMP INSERTS - 250V/10AMP



720364

720364 64 Pole - Crimp Carrier Sleeve Contacts, 0.14 to 2.5 mm²

720464 64 Pole - Crimp Carrier Pin Contacts, 0.14 to 2.5 mm²

720506 Sleeve Contacts D Series - 0.14 - 0.37 mm²

720507 Sleeve Contacts D Series - 0.5 mm²

720508 Sleeve Contacts D Series - 0.75 - 1 mm²

720509 Sleeve Contacts D Series - 1.5 mm²

720502 Sleeve Contacts D Series - 2.5 mm²

720516 Pin Contacts D Series - 0.14 - 0.37 mm²

720517 Pin Contacts D Series - 0.5 mm²

720518 Pin Contacts D Series - 0.75 - 1 mm²

720519 Pin Contacts D Series - 1.5 mm²

720512 Pin Contacts D Series - 2.5 mm²

Please select Housings from B24 Range



720464



720519

DD42 SERIES - 42 POLE & EARTH CRIMP INSERTS - 250V/10AMP



750142

750142 42 Pole - Crimp Carrier Sleeve Contacts, 0.14 to 2.5 mm²

750242 42 Pole - Crimp Carrier Pin Contacts, 0.14 to 2.5 mm²

720506 Sleeve Contacts D Series - 0.14 - 0.37 mm²

720507 Sleeve Contacts D Series - 0.5 mm²

720508 Sleeve Contacts D Series - 0.75 - 1 mm²

720509 Sleeve Contacts D Series - 1.5 mm²

720516 Pin Contacts D Series - 0.14 - 0.37 mm²

720517 Pin Contacts D Series - 0.5 mm²

720518 Pin Contacts D Series - 0.75 - 1 mm²

720519 Pin Contacts D Series - 1.5 mm²

Please select Housings from B10 Range



750242



PROCON HEAVY DUTY CONNECTORS - TOOLS

TOOLS & ACCESSORIES



710613

71058220

Trumpet Glands with Strain Relief and Bending Protection - M20

71058525

Trumpet Glands with Strain Relief and Bending Protection - M25

71058632

Trumpet Glands with Strain Relief and Bending Protection - M32

710613

Insertion Tool for DD Style Contacts

710614

Removal Tool for D & DD Style Contacts

719619

Removal Tool for B & BB Style Contacts



710601 & 710602

710601

Guiding Pin

710602

Guiding Sleeve

WISKA

Wiska is another German manufacturer we represent with an interesting product range in Glands, EX Glands and Enclosures as well as a range of Marine Lighting, Electrical and CCTV Systems. Innovative new products include such items as their submersible cable junction boxes (15 metres for 170 hours) and a nickel plated brass spiral gland.

CABLE GLANDS

IP68 GLAND SETS - BLACK - LONG



Product code	Description	Size	Colour	Cable Ø	Thread Length
ESKV-L-12set	Polyamide Gland with Locknut M12	M12	Black (RAL 9005)	3 - 7mm	15mm
ESKV-L-16set	Polyamide Gland with Locknut M16	M16	Black (RAL 9005)	4.5 - 10mm	15mm
ESKV-L-20set	Polyamide Gland with Locknut M20	M20	Black (RAL 9005)	6 - 13mm	15mm
ESKV-L-25set	Polyamide Gland with Locknut M25	M25	Black (RAL 9005)	9 - 17mm	15mm
ESKV-L-32set	Polyamide Gland with Locknut M32	M32	Black (RAL 9005)	13 - 21mm	15mm
ESKV-L-40set	Polyamide Gland with Locknut M40	M40	Black (RAL 9005)	16 - 28mm	18mm
ESKV-L-50set	Polyamide Gland with Locknut M50	M50	Black (RAL 9005)	21 - 35mm	18mm
ESKV-L-63set	Polyamide Gland with Locknut M63	M63	Black (RAL 9005)	34 - 48mm	18mm

IP68 GLAND SETS - BLACK



Product code	Description	Size	Colour	Cable Ø	Thread Length
ESKV12set	Polyamide Gland with Locknut M12	M12	Black (RAL 9005)	3 - 7mm	9mm
ESKV16set	Polyamide Gland with Locknut M16	M16	Black (RAL 9005)	4.5 - 10mm	9mm
ESKV20set	Polyamide Gland with Locknut M20	M20	Black (RAL 9005)	6 - 13mm	10mm
ESKV25set	Polyamide Gland with Locknut M25	M25	Black (RAL 9005)	9 - 17mm	10mm
ESKV32set	Polyamide Gland with Locknut M32	M32	Black (RAL 9005)	13 - 21mm	12mm
ESKV40set	Polyamide Gland with Locknut M40	M40	Black (RAL 9005)	16 - 28mm	12mm
ESKV50set	Polyamide Gland with Locknut M50	M50	Black (RAL 9005)	21 - 35mm	14mm
ESKV63set	Polyamide Gland with Locknut M63	M63	Black (RAL 9005)	34 - 48mm	15mm

IP68 GLAND SETS - GREY



Product code	Description	Size	Colour	Cable Ø	Thread Length
ESKV12setGR	Polyamide Gland with Locknut M12	M12	Grey (RAL 7001)	3 - 7mm	9mm
ESKV16setGR	Polyamide Gland with Locknut M16	M16	Grey (RAL 7001)	4.5 - 10mm	9mm
ESKV20setGR	Polyamide Gland with Locknut M20	M20	Grey (RAL 7001)	6 - 13mm	10mm
ESKV25setGR	Polyamide Gland with Locknut M25	M25	Grey (RAL 7001)	9 - 17mm	10mm
ESKV32setGR	Polyamide Gland with Locknut M32	M32	Grey (RAL 7001)	13 - 21mm	12mm

CABLE GLANDS

IP68 GLANDS - BLACK - LONG



Product Code	Description	Size	Colour	Cable Ø	Thread Length
ESKV-L-12	Polyamide Gland	M12	Black (RAL 9005)	3 - 7mm	15mm
ESKV-L-16	Polyamide Gland	M16	Black (RAL 9005)	4.5 - 10mm	15mm
ESKV-L-20	Polyamide Gland	M20	Black (RAL 9005)	6 - 13mm	15mm
ESKV-L-25	Polyamide Gland	M25	Black (RAL 9005)	9 - 17mm	15mm
ESKV-L-32	Polyamide Gland	M32	Black (RAL 9005)	13 - 21mm	15mm
ESKV-L-40	Polyamide Gland	M40	Black (RAL 9005)	16 - 28mm	18mm
ESKV-L-50	Polyamide Gland	M50	Black (RAL 9005)	21 - 35mm	18mm
ESKV-L-63	Polyamide Gland	M63	Black (RAL 9005)	34 - 48mm	18mm

IP68 GLANDS - BLACK



Product Code	Description	Size	Colour	Cable Ø	Thread Length
ESKV12	Polyamide Gland	M12	Black (RAL 9005)	3 - 7mm	9mm
ESKV16	Polyamide Gland	M16	Black (RAL 9005)	4.5 - 10mm	9mm
ESKV20	Polyamide Gland	M20	Black (RAL 9005)	6 - 13mm	10mm
ESKV25	Polyamide Gland	M25	Black (RAL 9005)	9 - 17mm	10mm
ESKV32	Polyamide Gland	M32	Black (RAL 9005)	13 - 21mm	12mm
ESKV40	Polyamide Gland	M40	Black (RAL 9005)	16 - 28mm	12mm
ESKV50	Polyamide Gland	M50	Black (RAL 9005)	21 - 35mm	14mm
ESKV63	Polyamide Gland	M63	Black (RAL 9005)	34 - 48mm	15mm

LOCKNUTS - BLACK



Product Code	Description	Size	Colour	Width
EMUG-M12	Polyamide Locknut	M12	Black (RAL 9005)	5mm
EMUG-M16	Polyamide Locknut	M16	Black (RAL 9005)	5mm
EMUG-M20	Polyamide Locknut	M20	Black (RAL 9005)	5mm
EMUG-M25	Polyamide Locknut	M25	Black (RAL 9005)	6mm
EMUG-M32	Polyamide Locknut	M32	Black (RAL 9005)	6mm
EMUG-M40	Polyamide Locknut	M40	Black (RAL 9005)	7mm
EMUG-M50	Polyamide Locknut	M50	Black (RAL 9005)	7mm
EMUG-M63	Polyamide Locknut	M63	Black (RAL 9005)	7mm

IP68 GLANDS - GREY



Product Code	Description	Size	Colour	Cable Ø	Thread Length
ESKV12 GR	Polyamide Gland	M12	Grey (RAL 7001)	3 - 7mm	9mm
ESKV16 GR	Polyamide Gland	M16	Grey (RAL 7001)	4.5 - 10mm	9mm
ESKV20 GR	Polyamide Gland	M20	Grey (RAL 7001)	6 - 13mm	10mm
ESKV25 GR	Polyamide Gland	M25	Grey (RAL 7001)	9 - 17mm	10mm
ESKV32 GR	Polyamide Gland	M32	Grey (RAL 7001)	13 - 21mm	12mm

CABLE GLANDS

LOCKNUTS - GREY



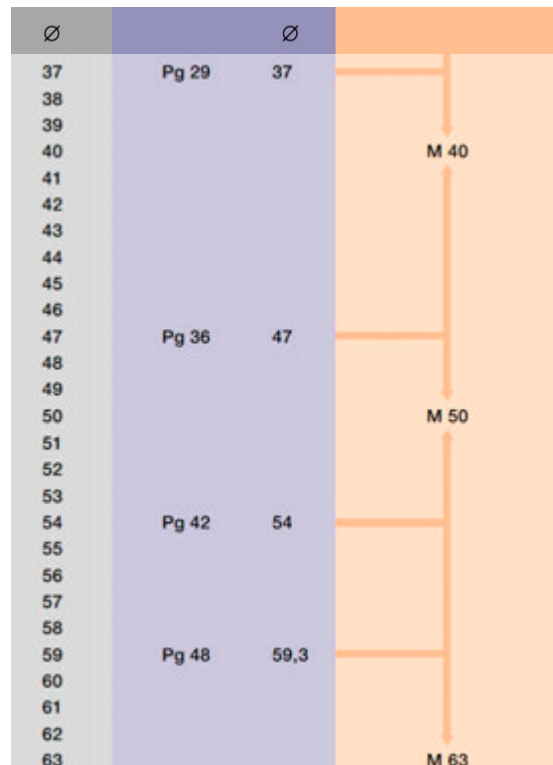
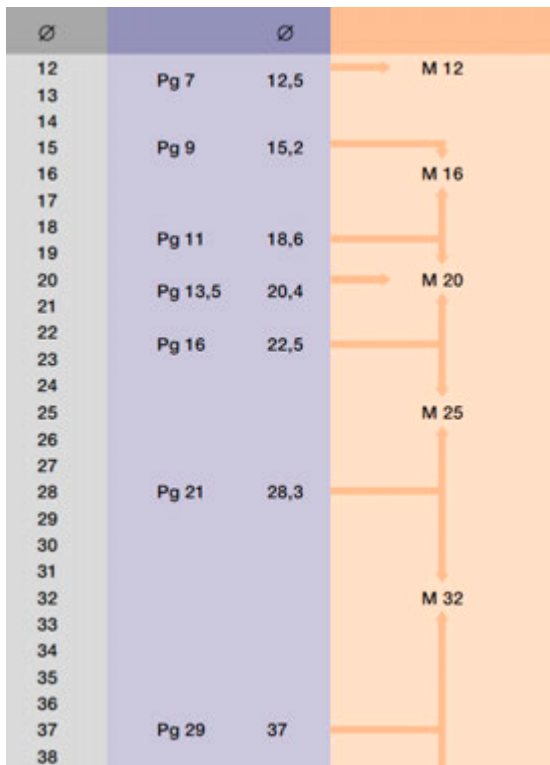
Product Code	Description	Size	Colour	Width
EMUG-M12GR	Polyamide Locknut	M12	Grey (RAL 7001)	5mm
EMUG-M16GR	Polyamide Locknut	M16	Grey (RAL 7001)	5mm
EMUG-M20GR	Polyamide Locknut	M20	Grey (RAL 7001)	5mm
EMUG-M25GR	Polyamide Locknut	M25	Grey (RAL 7001)	6mm
EMUG-M32GR	Polyamide Locknut	M32	Grey (RAL 7001)	6mm

PG IP68 GLANDS - LIGHT GREY



Product Code	Description	Size	Colour	Cable Ø	Thread Length
SKV7setLGR	Gland & Locknut	PG7	Light Grey (RAL 7035)	3 - 6mm	9mm
SKV9setLGR	Gland & Locknut	PG9	Light Grey (RAL 7035)	4 - 8mm	9mm
SKV11setLGR	Gland & Locknut	PG11	Light Grey (RAL 7035)	5 - 10mm	9mm
SKV13.5setLGR	Gland & Locknut	PG13.5	Light Grey (RAL 7035)	6 - 12mm	10mm
SKV16setLGR	Gland & Locknut	PG16	Light Grey (RAL 7035)	8 - 14mm	11mm
SKV21setLGR	Gland & Locknut	PG21	Light Grey (RAL 7035)	10 - 18mm	11mm
SKV29setLGR	Gland & Locknut	PG29	Light Grey (RAL 7035)	16 - 25mm	12mm
SKV36setLGR	Gland & Locknut	PG36	Light Grey (RAL 7035)	22 - 32mm	14mm
SKV42setLGR	Gland & Locknut	PG42	Light Grey (RAL 7035)	28 - 38mm	14mm
SKV48setLGR	Gland & Locknut	PG48	Light Grey (RAL 7035)	36 - 44mm	15mm

PG/METRIC CONVERSION GUIDE



CABLE GLANDS

IP68 GLAND SETS - NICKEL PLATED BRASS - LONG



Product Code	Description	Size	Material	Cable Ø	Thread Length
EMSKV-L12set	Gland with Locknut	M12	Nickel Plated Brass	3 - 7mm	12mm
EMSKV-L16set	Gland with Locknut	M16	Nickel Plated Brass	4.5 - 10mm	12mm
EMSKV-L20set	Gland with Locknut	M20	Nickel Plated Brass	6 - 13mm	12mm
EMSKV-L25set	Gland with Locknut	M25	Nickel Plated Brass	9 - 17mm	12mm
EMSKV-L32set	Gland with Locknut	M32	Nickel Plated Brass	13 - 21mm	15mm
EMSKV-L40set	Gland with Locknut	M40	Nickel Plated Brass	16 - 28mm	15mm
EMSKV-L50set	Gland with Locknut	M50	Nickel Plated Brass	21 - 35mm	15mm
EMSKV-L63set	Gland with Locknut	M63	Nickel Plated Brass	34 - 48mm	15mm

IP68 GLANDS - NICKEL PLATED BRASS - LONG



Product Code	Description	Size	Material	Cable Ø	Thread Length
EMSKV-L12	Gland	M12	Nickel Plated Brass	3 - 7mm	12mm
EMSKV-L16	Gland	M16	Nickel Plated Brass	4.5 - 10mm	12mm
EMSKV-L20	Gland	M20	Nickel Plated Brass	6 - 13mm	12mm
EMSKV-L25	Gland	M25	Nickel Plated Brass	9 - 17mm	12mm
EMSKV-L32	Gland	M32	Nickel Plated Brass	13 - 21mm	15mm
EMSKV-L40	Gland	M40	Nickel Plated Brass	16 - 28mm	15mm
EMSKV-L50	Gland	M50	Nickel Plated Brass	21 - 35mm	15mm
EMSKV-L63	Gland	M63	Nickel Plated Brass	34 - 48mm	15mm

IP68 GLANDS - NICKEL PLATED BRASS



Product Code	Description	Size	Material	Cable Ø	Thread Length
EMSKV 12	Gland	M12	Nickel Plated Brass	3 - 7mm	5mm
EMSKV 16	Gland	M16	Nickel Plated Brass	4.5 - 10mm	5mm
EMSKV 20	Gland	M20	Nickel Plated Brass	6 - 13mm	6mm
EMSKV 25	Gland	M25	Nickel Plated Brass	9 - 17mm	7mm
EMSKV 32	Gland	M32	Nickel Plated Brass	13 - 21mm	8mm
EMSKV 40	Gland	M40	Nickel Plated Brass	16 - 28mm	8mm
EMSKV 50	Gland	M50	Nickel Plated Brass	21 - 35mm	9mm
EMSKV 63	Gland	M63	Nickel Plated Brass	34 - 48mm	10mm

LOCKNUTS NICKEL PLATED BRASS



Product Code	Description	Size	Material	Width
EMMU12	Locknut	M12	Nickel Plated Brass	2.8mm
EMMU16	Locknut	M16	Nickel Plated Brass	2.8mm
EMMU20	Locknut	M20	Nickel Plated Brass	3mm
EMMU25	Locknut	M25	Nickel Plated Brass	3.5mm
EMMU32	Locknut	M32	Nickel Plated Brass	4mm
EMMU40	Locknut	M40	Nickel Plated Brass	5mm
EMMU50	Locknut	M50	Nickel Plated Brass	5mm
EMMU63	Locknut	M63	Nickel Plated Brass	6mm

CABLE GLANDS

IP66/68 EEXE CABLE GLANDS - POLYAMIDE BLACK



Product Code	Description	Size	Material	Cable Ø	Thread Length
ESKE/1-e-16	EX Gland	M16	Polyamide Black	4.5mm - 9mm	9mm
ESKE/1-e-20	EX Gland	M20	Polyamide Black	7mm - 13mm	10mm
ESKE/1-e-25	EX Gland	M25	Polyamide Black	10mm - 17mm	10mm
ESKE/1-e-32	EX Gland	M32	Polyamide Black	13mm - 21mm	12mm
ESKE/1-e-40	EX Gland	M40	Polyamide Black	17mm - 28mm	12mm
ESKE/1-e-50	EX Gland	M50	Polyamide Black	23mm - 35mm	14mm
ESKE/1-e-63	EX Gland	M63	Polyamide Black	34mm - 46mm	15mm

IP68/69 GLANDS - STAINLESS STEEL - 304SS



Product Code	Description	Size	Material	Cable Ø	Thread Length
ESSKV12	Gland	M12	Stainless Steel	3 - 7mm	5mm
ESSKV16	Gland	M16	Stainless Steel	4.5 - 10mm	5mm
ESSKV20	Gland	M20	Stainless Steel	6 - 13mm	6mm
ESSKV25	Gland	M25	Stainless Steel	9 - 17mm	7mm
ESSKV32	Gland	M32	Stainless Steel	13 - 21mm	8mm
ESSKV40	Gland	M40	Stainless Steel	16 - 28mm	8mm
ESSKV50	Gland	M50	Stainless Steel	21 - 35mm	9mm
ESSKV63	Gland	M63	Stainless Steel	34 - 48mm	10mm

IP68/69 GLANDS - STAINLESS STEEL - 316SS



Product Code	Description	Size	Material	Cable Ø	Thread Length
ESSKV-4-20	Gland	M20	Stainless Steel	6 - 13mm	6mm
ESSKV-4-25	Gland	M25	Stainless Steel	9 - 17mm	7mm
ESSKV-4-32	Gland	M32	Stainless Steel	13 - 21mm	8mm
ESSKV-4-40	Gland	M40	Stainless Steel	16 - 28mm	8mm
ESSKV-4-50	Gland	M50	Stainless Steel	21 - 35mm	9mm
ESSKV-4-63	Gland	M63	Stainless Steel	34 - 48mm	10mm




LOCKNUTS - STAINLESS STEEL ALLOY 303 (1.4305-A1)



Product Code	Description	Size	Material	Width
ESMU12	Locknut	M12	Stainless Steel	2.8mm
ESMU16	Locknut	M16	Stainless Steel	2.8mm
ESMU20	Locknut	M20	Stainless Steel	3mm
ESMU25	Locknut	M25	Stainless Steel	3.5mm
ESMU32	Locknut	M32	Stainless Steel	4mm
ESMU40	Locknut	M40	Stainless Steel	5mm
ESMU50	Locknut	M50	Stainless Steel	5mm
ESMU63	Locknut	M63	Stainless Steel	6mm

GLAND ACCESSORIES


MULTIPLE CABLE GLAND INSERTS - IP66

	Product Code	Description	Gland Size	Cable No	Cable Ø
	MFD12/04/020	Thermoplastic Elastomer Insert	M12	2	0 - 2.0mm
	MFD16/02/040	Thermoplastic Elastomer Insert	M16	2	2.0 - 4.0mm
	MFD20/02/060	Thermoplastic Elastomer Insert	M20	2	4.0 - 6.0mm
	MFD20/03/040	Thermoplastic Elastomer Insert	M20	3	2.5 - 4.0mm
	MFD25/01/065	Thermoplastic Elastomer Insert	M25	1	4.0 - 6.5mm
	MFD25/01/090	Thermoplastic Elastomer Insert	M25	1	7.0 - 9.0mm
	MFD25/02/080	Thermoplastic Elastomer Insert	M25	2	6.0 - 8.0mm
	MFD25/03/070	Thermoplastic Elastomer Insert	M25	3	5.0 - 7.0mm
	MFD25/04/060	Thermoplastic Elastomer Insert	M25	4	4.0 - 6.0mm
	MFD32/04/070	Thermoplastic Elastomer Insert	M32	4	5.0 - 7.0mm
	MFD32/04/080	Thermoplastic Elastomer Insert	M32	4	6.0 - 8.0mm
	MFD32/06/060	Thermoplastic Elastomer Insert	M32	6	5.0 - 6.0mm
	MFD40/04/100	Thermoplastic Elastomer Insert	M40	4	8.0 - 10mm
	MFD40/07/070	Thermoplastic Elastomer Insert	M40	7	5.0 - 7.0mm
	MFD40/07/080	Thermoplastic Elastomer Insert	M40	7	6.0 - 8.0mm
	MFD40/08/060	Thermoplastic Elastomer Insert	M40	8	5.0 - 6.0mm
	MFD50/09/080	Thermoplastic Elastomer Insert	M50	9	6.0 - 8.0mm
	MFD50/25/050	Thermoplastic Elastomer Insert	M50	25	4.0 - 5.0mm
	MFD63/01/131-01	Thermoplastic Elastomer Insert	M63	7 (various sizes)	6.0 - 13mm
	MFD63/02/065-01	Thermoplastic Elastomer Insert	M63	3 (various sizes)	5.0 - 9.0mm
	MFD63/03/065	Thermoplastic Elastomer Insert	M63	3	5.0 - 6.5mm

MULTIPLE CABLE SPLIT GLAND INSERTS - IP66

	Product Code	Description	Gland Size	Cable No	Cable Ø
	GFD20/01/015	Thermoplastic Elastomer Split Insert	M20	1	0 - 1.5mm
	GFD25/01/060	Thermoplastic Elastomer Split Insert	M25	1	4.0 - 6.0mm
	GFD32/01/045-01	Thermoplastic Elastomer Split Insert	M32	2	4.5 & 8.5mm
	GFD50/01/080	Thermoplastic Elastomer Split Insert	M50	1	6.0 - 8.0mm
	GFD63/01/090	Thermoplastic Elastomer Split Insert	M63	1	7.0 - 9.0mm
	GFD63/02/065-01	Thermoplastic Elastomer Split Insert	M63	3 (various sizes)	6.5 & 9.0mm
	GFD63/03/065	Thermoplastic Elastomer Split Insert	M63	3	4.0 - 6.5mm

SPECIAL CABLE GLAND INSERTS - IP66

	Product Code	Description	Gland Size	Cable No	Type
	FFD20/01/510	Flat Cable INsert	M20	1	TPS
	FFD20/1/713	Flat Cable INsert	M20	1	TPS
	SFD 20/01/ASI	ASi BUS Cable Insert	M20	1	ASi Cable

GLAND ACCESSORIES

MFD BLIND SEALING PLUGS



Product Code	Description	Colour	Size Ø	Length
BS2	Polyamide Blind Plug for MFD Seals	Red	2mm	12mm
BS3	Polyamide Blind Plug for MFD Seals	Red	3mm	12mm
BS4	Polyamide Blind Plug for MFD Seals	Red	4mm	12mm
BS5	Polyamide Blind Plug for MFD Seals	Red	5mm	12mm
BS6	Polyamide Blind Plug for MFD Seals	Red	6mm	16mm
BS7	Polyamide Blind Plug for MFD Seals & M12 Glands	Red	7mm	16mm
BS8	Polyamide Blind Plug for MFD Seals	Red	8mm	16mm
BS9	Polyamide Blind Plug for MFD Seals	Red	9mm	16mm
BS10	Polyamide Blind Plug for MFD Seals & M16 Glands	Red	10mm	16mm
BS12	Polyamide Blind Plug for MFD Seals	Red	12mm	22mm
BS13	Polyamide Blind Plug for M20 Glands	Red	13mm	22mm
BS17	Polyamide Blind Plug for M25 Glands	Red	17mm	17mm
BS21	Polyamide Blind Plug for M32 Glands	Red	21mm	30mm
BS28	Polyamide Blind Plug for M40 Glands	Red	28mm	30mm
BS38	Polyamide Blind Plug for M50 Glands	Red	38mm	35mm
BS48	Polyamide Blind Plug for M63 Glands	Red	48mm	35mm

REDUCING INSERTS - IP68



Product Code	Description	Gland Size	Colour	Cable Ø
RDE12	Reducing Insert - EPDM material	M12	Black	1.0 - 3.0mm
RDE16	Reducing Insert - EPDM material	M16	Black	2.0 - 6.0mm
RDE20	Reducing Insert - EPDM material	M20	Black	4.0 - 8.0mm
RDE25	Reducing Insert - EPDM material	M25	Black	7.0-12mm
RDE32	Reducing Insert - EPDM material	M32	Black	9.0 - 14mm
RDE40	Reducing Insert - EPDM material	M40	Black	12 - 20mm
RDE50	Reducing Insert - EPDM material	M50	Black	16 - 25mm
RDE63	Reducing Insert - EPDM material	M63	Black	28 - 38mm


GLAND THREAD GASKETS



Product Code	Description	Gland Size	Colour	Thickness
EADR12	Gland Thread Gasket	M12	Black	2mm
EADR16	Gland Thread Gasket	M16	Black	2mm
EADR20	Gland Thread Gasket	M20	Black	2mm
EADR25	Gland Thread Gasket	M25	Black	2mm
EADR32	Gland Thread Gasket	M32	Black	2mm
EADR40	Gland Thread Gasket	M40	Black	2mm
EADR50	Gland Thread Gasket	M50	Black	2mm
EADR63	Gland Thread Gasket	M63	Black	2mm


REDUCERS & ADAPTORS

POLYAMIDE REDUCERS - LIGHT GREY - METRIC




Product code	Description	Outer	Inner	Colour	Thread Length
KRM 16/12	Polyamide Reducer	M16	M12	Light Grey (RAL 7035)	9mm
KRM 20/12	Polyamide Reducer	M20	M12	Light Grey (RAL 7035)	9mm
KRM 20/16	Polyamide Reducer	M20	M16	Light Grey (RAL 7035)	9mm
KRM 25/12	Polyamide Reducer	M25	M12	Light Grey (RAL 7035)	10mm
KRM 25/16	Polyamide Reducer	M25	M16	Light Grey (RAL 7035)	10mm
KRM 25/20	Polyamide Reducer	M25	M20	Light Grey (RAL 7035)	10mm
KRM 32/16	Polyamide Reducer	M32	M16	Light Grey (RAL 7035)	12mm
KRM 32/20	Polyamide Reducer	M32	M20	Light Grey (RAL 7035)	12mm
KRM 32/25	Polyamide Reducer	M32	M25	Light Grey (RAL 7035)	12mm
KRM 40/20	Polyamide Reducer	M40	M20	Light Grey (RAL 7035)	12mm
KRM 40/25	Polyamide Reducer	M40	M25	Light Grey (RAL 7035)	12mm
KRM 40/32	Polyamide Reducer	M40	M32	Light Grey (RAL 7035)	12mm
KRM 50/25	Polyamide Reducer	M50	M25	Light Grey (RAL 7035)	14mm
KRM 50/32	Polyamide Reducer	M50	M32	Light Grey (RAL 7035)	14mm
KRM 50/40	Polyamide Reducer	M50	M40	Light Grey (RAL 7035)	14mm
KRM 63/32	Polyamide Reducer	M63	M32	Light Grey (RAL 7035)	15mm
KRM 63/40	Polyamide Reducer	M63	M40	Light Grey (RAL 7035)	15mm
KRM 63/50	Polyamide Reducer	M63	M50	Light Grey (RAL 7035)	15mm

PG TYPE POLYAMIDE REDUCERS - LIGHT GREY



Product code	Description	Outer	Inner	Colour	Thread Length
KRP9/7	PG Type Polyamide Reducer	PG9	PG7	Light Grey (RAL 7035)	9mm
KRP11/9	PG Type Polyamide Reducer	PG11	PG9	Light Grey (RAL 7035)	9mm
KRP13.5/9	PG Type Polyamide Reducer	PG13.5	PG9	Light Grey (RAL 7035)	10mm
KRP13.5/11	PG Type Polyamide Reducer	PG13.5	PG11	Light Grey (RAL 7035)	10mm
KRP16/11	PG Type Polyamide Reducer	PG16	PG11	Light Grey (RAL 7035)	10mm
KRP16/13.5	PG Type Polyamide Reducer	PG16	PG13.5	Light Grey (RAL 7035)	10mm
KRP21/16	PG Type Polyamide Reducer	PG21	PG16	Light Grey (RAL 7035)	12mm
KRP29/21	PG Type Polyamide Reducer	PG29	PG21	Light Grey (RAL 7035)	12mm

POLYAMIDE ADAPTORS - PG TO METRIC



Product code	Description	Outer	Inner	Colour	Thread Length
APM16/20	Polyamide Adaptor	PG16	M20	Light Grey (RAL 7035)	10mm
APM36/40	Polyamide Adaptor	PG36	M40	Light Grey (RAL 7035)	14mm

REDUCERS/ADAPTORS & EARTH TAGS

NICKEL PLATED BRASS REDUCERS - METRIC



Product Code	Description	Outer	Inner	Thread Length
MRM16/12	Nickel Plated Brass Reducer	M16	M12	5mm
MRM20/12	Nickel Plated Brass Reducer	M20	M12	6mm
MRM20/16	Nickel Plated Brass Reducer	M20	M16	6mm
MRM25/16	Nickel Plated Brass Reducer	M25	M16	7mm
MRM25/20	Nickel Plated Brass Reducer	M25	M20	7mm
MRM32/20	Nickel Plated Brass Reducer	M32	M20	8mm
MRM32/25	Nickel Plated Brass Reducer	M32	M25	8mm
MRM40/25	Nickel Plated Brass Reducer	M40	M25	8mm
MRM40/32	Nickel Plated Brass Reducer	M40	M32	8mm
MRM50/32	Nickel Plated Brass Reducer	M50	M32	9mm
MRM50/40	Nickel Plated Brass Reducer	M50	M40	9mm
MRM63/40	Nickel Plated Brass Reducer	M63	M40	10mm
MRM63/50	Nickel Plated Brass Reducer	M63	M50	10mm

NICKEL PLATED BRASS ADAPTORS - PG TO METRIC



Product Code	Description	Outer	Inner	Thread Length
AMPM-13.5/20	Nickel Plated Brass Adaptor	PG13.5	M20	6.5mm
AMPM-16/20	Nickel Plated Brass Adaptor	PG16	M20	6.5mm
AMPM-16/25	Nickel Plated Brass Adaptor	PG16	M25	6.5mm
AMPM-21/25	Nickel Plated Brass Adaptor	PG21	M25	7mm
AMPM-21/32	Nickel Plated Brass Adaptor	PG21	M32	7mm
AMPM-29/40	Nickel Plated Brass Adaptor	PG29	M40	8mm

BRASS EARTH TAGS - METRIC



Product code	Description	Size
OSET16	Brass Earth Tag	M16
OSET20	Brass Earth Tag	M20
OSET25	Brass Earth Tag	M25
OSET32	Brass Earth Tag	M32
OSET40	Brass Earth Tag	M40
OSET50	Brass Earth Tag	M50
OSET63	Brass Earth Tag	M63

VENTGLAND SERIES

IP69K VENTGLAND SERIES - BREATHES & SEALS



VENTGLAND SYSTEM

The cable gland has a micro-porous, liquid-tight PTFE membrane that literally lets the casing breathe, which then compensates different pressures inside and outside the casing. Hence, condensation is reduced to a minimum while the high-tech membrane seals the VentGLAND in such a way that dirt and water can not penetrate into the inside of the casing. VentGLAND meets the high requirements of IP69K.

Your benefits from VentGLAND are that the cable gland and pressure compensation are in one device and that it reduces condensation to a minimum. There are great cost savings due to the following reasons: no extra components, no extra installation, no extra drilling.

IP69K VENTGLAND SETS



Product Code	Description	Size	Colour	Cable Ø	Thread Length
ESVG20set	Ventgland with Locknut	M20	Black (RAL 9005)	6 - 13mm	10mm
ESVG25set	Ventgland with Locknut	M25	Black (RAL 9005)	9 - 17mm	10mm
ESVG32set	Ventgland with Locknut	M32	Black (RAL 9005)	13 - 21mm	12mm

IP69K VENTGLANDS



Product Code	Description	Size	Colour	Cable Ø	Thread Length
ESVG20	Ventgland	M20	Black (RAL 9005)	6 - 13mm	10mm
ESVG25	Ventgland	M25	Black (RAL 9005)	9 - 17mm	10mm
ESVG32	Ventgland	M32	Black (RAL 9005)	13 - 21mm	12mm

IP69K VENTPLUG SERIES



Product Code	Description	Size	Colour	Cable Ø	Thread Length
EVPS12set	Ventplug with Locknut	M12	Black (RAL 9005)	N/A	9mm
EVPS12	Ventgland	M12	Black (RAL 9005)	N/A	9mm

SPRIAL GLAND & QUIXX

IP68 SPIRAL GLAND SETS - BLACK



Product Code	Description	Size	Colour	Cable Ø	Thread Length
ESKVS-L-12set	Spiral Gland with Lock Nut	M12	Black (RAL 9005)	3 - 7mm	15mm
ESKVS-L-16set	Spiral Gland with Lock Nut	M16	Black (RAL 9005)	4.5 - 10mm	15mm
ESKVS-L-20set	Spiral Gland with Lock Nut	M20	Black (RAL 9005)	6 - 13mm	15mm
ESKVS-L-25set	Spiral Gland with Lock Nut	M25	Black (RAL 9005)	9 - 17mm	15mm
ESKVS-L-32set	Spiral Gland with Lock Nut	M32	Black (RAL 9005)	13 - 21mm	15mm

IP68 SPIRAL GLAND SETS - LIGHT GREY



Product Code	Description	Size	Colour	Cable Ø	Thread Length
ESKVS-L-12setGr	Spiral Gland with Lock Nut	M12	Light Grey (RAL 7035)	3 - 7mm	15mm
ESKVS-L-16setGr	Spiral Gland with Lock Nut	M16	Light Grey (RAL 7035)	4.5 - 10mm	15mm
ESKVS-L-20setGr	Spiral Gland with Lock Nut	M20	Light Grey (RAL 7035)	6 - 13mm	15mm
ESKVS-L-25setGr	Spiral Gland with Lock Nut	M25	Light Grey (RAL 7035)	9 - 17mm	15mm
ESKVS-L-32setGr	Spiral Gland with Lock Nut	M32	Light Grey (RAL 7035)	13 - 21mm	15mm

IP66 QUIXX GLANDS - STANDARD - GREY/WHITE



Product Code	Description	Size	Colour	Cable Ø	Thread Length
EMT16	Membrane Gland	M16	Light Grey / White	1 - 9mm	11mm
EMT20	Membrane Gland	M20	Light Grey / White	1 - 13mm	11mm
EMT25	Membrane Gland	M25	Light Grey / White	1 - 18mm	11mm
EMT32	Membrane Gland	M32	Light Grey / White	1 - 25mm	11mm

IP66 QUIXX GLANDS - FLAME RETARDANT - WHITE



Product Code	Description	Size	Colour	Cable Ø	Thread Length
EMT-F16	Membrane Gland	M16	White	1 - 9mm	11mm
EMT-F20	Membrane Gland	M20	White	1 - 13mm	11mm
EMT-F25	Membrane Gland	M25	White	1 - 18mm	11mm
EMT-F32	Membrane Gland	M32	White	1 - 25mm	11mm

STOP ENDS

IP68 METRIC STOP ENDS - LIGHT GREY



Product Code	Description	Size	Colour	Thread Length
EVSG12	Stop End - Polyamide	M12	Light Grey (RAL 7035)	6mm
EVSG16	Stop End - Polyamide	M16	Light Grey (RAL 7035)	6mm
EVSG20	Stop End - Polyamide	M20	Light Grey (RAL 7035)	6mm
EVSG25	Stop End - Polyamide	M25	Light Grey (RAL 7035)	8mm
EVSG32	Stop End - Polyamide	M32	Light Grey (RAL 7035)	8mm

IP68 PG STOP ENDS - LIGHT GREY



Product Code	Description	Size	Colour	Thread Length
VSG-11	Stop End - Polyamide	PG11	Light Grey (RAL 7035)	6mm
VSG-13.5	Stop End - Polyamide	PG13.5	Light Grey (RAL 7035)	6mm
VSG-16	Stop End - Polyamide	PG16	Light Grey (RAL 7035)	6mm
VSG-21	Stop End - Polyamide	PG21	Light Grey (RAL 7035)	8mm
VSG-29	Stop End - Polyamide	PG29	Light Grey (RAL 7035)	8mm

IP68 METRIC NICKEL PLATED BRASS STOP ENDS



Product Code	Description	Size	Colour	Thread Length
EMVS12	Stop End	M12	Nickel Plated Brass	5mm
EMVS16	Stop End	M16	Nickel Plated Brass	5mm
EMVS20	Stop End	M20	Nickel Plated Brass	6.5mm
EMVS25	Stop End	M25	Nickel Plated Brass	7mm
EMVS32	Stop End	M32	Nickel Plated Brass	8mm

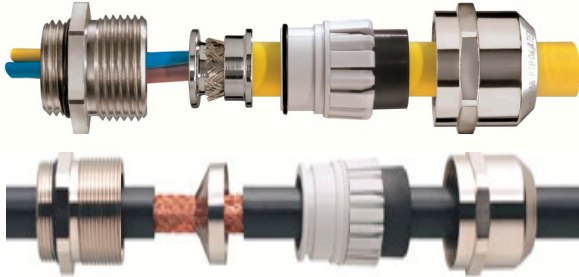


WISKA INDUSTRY CATALOGUE

Ask for your copy of the complete Wiska Cable Gland Catalogue.

EMC CABLE GLANDS

TECHNICAL INFORMATION



For Electromagnetic protection there is no better solution than what Wiska can offer. They have complete 360° connection of the cable shield with the lowest ohmic and inductive resistance of any gland system.

The EMC glands from Wiska are a high performance and safe solution that can be relied on in the harshest of environments.

IP68 EMC GLANDS WITH EARTHING CONE - NICKEL PLATED BRASS



Product Code	Description	Size	Cable Ø	Shield Ø	Thread Length
EMSKV-L-12-EMV-Z	EMC Gland	M12	3 - 7mm	5mm	12mm
EMSKV-L-16-EMV-Z	EMC Gland	M16	4.5 - 10mm	7.5mm	12mm
EMSKV-L-20-EMV-Z	EMC Gland	M20	6 - 13mm	9.5mm	12mm
EMSKV-L-25-EMV-Z	EMC Gland	M25	9 - 17mm	14.5mm	12mm
EMSKV-L-32-EMV-Z	EMC Gland	M32	13 - 21mm	20mm	15mm
EMSKV-L-40-EMV-Z	EMC Gland	M40	16 - 28mm	26mm	15mm
EMSKV-L-50-EMV-Z	EMC Gland	M50	21 - 35mm	33mm	15mm
EMSKV-L-63-EMV-Z	EMC Gland	M63	34 - 48mm	45mm	15mm

IP68 EMC GLANDS WITH STAINLESS STEEL SPRING INSERT - NICKEL PLATED BRASS



Product Code	Description	Size	Cable Ø	Shield Ø	Thread Length
EMSKV-L-12-EMV-S	EMC Gland	M12	3 - 7mm	5mm	12mm
EMSKV-L-16-EMV-S	EMC Gland	M16	4.5 - 10mm	7.5mm	12mm
EMSKV-L-20-EMV-S	EMC Gland	M20	6 - 13mm	9.5mm	12mm
EMSKV-L-25-EMV-S	EMC Gland	M25	9 - 17mm	14.5mm	12mm
EMSKV-L-32-EMV-S	EMC Gland	M32	13 - 21mm	20mm	15mm
EMSKV-L-40-EMV-S	EMC Gland	M40	16 - 28mm	26mm	15mm
EMSKV-L-50-EMV-S	EMC Gland	M50	21 - 35mm	33mm	15mm
EMSKV-L-63-EMV-S	EMC Gland	M63	34 - 48mm	45mm	15mm

EMC LOCKNUTS WITH EARTHING CLAWS - NICKEL PLATED BRASS



Product Code	Description	Size	Width
EMMU-EMV-12	EMC Lock Nut	M12	4.7mm
EMMU-EMV-16	EMC Lock Nut	M16	4.7mm
EMMU-EMV-20	EMC Lock Nut	M20	4.7mm
EMMU-EMV-25	EMC Lock Nut	M25	5.2mm
EMMU-EMV-32	EMC Lock Nut	M32	5.7mm
EMMU-EMV-40	EMC Lock Nut	M40	6.5mm
EMMU-EMV-50	EMC Lock Nut	M50	7mm
EMMU-EMV-63	EMC Lock Nut	M63	7mm

FURTHER PRODUCTS AVAILABLE



MARINE INDUSTRY

Wiska is your expert for Marine lighting, electrical search lights and CCTV products for seagoing vessels.

Wiska products meet the highest quality and safety standards.



VARITAIN

Varitain Reefer sockets stand out in their quality, long service life and cost efficiency.

With high quality manufacturing and numerous product innovation the Wiska Varitain system is synonymous for reefer sockets worldwide.



WISKA EX

Wiska have a very comprehensive range of Ex lighting and electrical products.

The Wiska Ex programme includes Cable Junction Boxes, switches and sockets, along with a large range of light fitting and cable gland solutions.

ZOLLER + FRÖHLICH

Bootlace Ferrules – the company Zoller & Froehlich (Z+F) is the world's largest manufacturer of Bootlace Ferrules. Even though our bootlace ferrules are manufactured in Germany they are still more cost effective than the other lower quality products sold here in New Zealand. This is partially due to the worldwide patent held by Z+F on the double ferrule for which they still charge royalties. The quality is superior which you can see at a glance.

BOOTLACE FERRULES - SINGLES

DIN STANDARD FERRULES - SMALL PACKET



H0.5/8W	Ferrule 0.5mm ² - length 8/14mm - White	100
H0.75/8GR	Ferrule 0.75mm ² - length 8/14mm - Grey	100
H1.0/8R	Ferrule 1.0mm ² - length 8/14mm - Red	100
H1.5/8BL	Ferrule 1.5mm ² - length 8/14mm - Black	100
H2.5/18B	Ferrule 2.5mm ² - length 18/25mm - Blue	500
H2.5/8B	Ferrule 2.5mm ² - length 8/15mm - Blue	100
H2.5/12B	Ferrule 2.5mm ² - length 12/19mm - Blue	100
H4.0/10GR	Ferrule 4.0mm ² - length 10/18mm - Grey	50
H6.0/12Y	Ferrule 6.0mm ² - length 12/20mm - Yellow	100
H10.0/12R	Ferrule 10.0mm ² - length 12/22mm - Red	100
H10.0/18R	Ferrule 10.0mm ² - length 18/28mm - Red	100
H16.0/12B	Ferrule 16.0mm ² - length 12/22mm - Blue	100
H16.0/18B	Ferrule 16.0mm ² - length 18/28mm - Blue	100
H25.0/16Y	Ferrule 25.0mm ² - length 16/30mm - Yellow	50
H35.0/16R	Ferrule 35.0mm ² - length 16/30mm - Red	50
H50.0/20B	Ferrule 50.0mm ² - length 20/36mm - Blue	50

DIN STANDARD FERRULES - OTHER PACKET SIZES



H0.25/8Y	Ferrule 0.25mm ² - length 8/12mm - Yellow	500
H0.34/8Y	Ferrule 0.34mm ² - length 8/12mm - Yellow	500
H0.5/10W	Ferrule 0.5mm ² - length 10/16mm - White	500
H0.5/12W	Ferrule 0.5mm ² - length 12/18mm - White	500
H0.75/10GR	Ferrule 0.75mm ² - length 10/16mm - Grey	500
H0.75/12GR	Ferrule 0.75mm ² - length 12/18mm - Grey	500
H1.0/10R	Ferrule 1.0mm ² - length 10/16mm - Red	500
H1.0/12R	Ferrule 1.0mm ² - length 12/18mm - Red	500
H1.5/12BL	Ferrule 1.5mm ² - length 12/18mm - Black	500

GERMAN (Z+F) STANDARD FERRULES - SMALL PACKET



H0.25/6LB	Ferrule 0.25mm ² - length 6/10mm - Light Blue	100
H0.25/12LB	Ferrule 0.37mm ² - length 12/16mm - Light Blue	100
H0.34/6T	Ferrule 0.37mm ² - length 6/11mm - Turquoise	100
H0.34/8T	Ferrule 0.34mm ² - length 6/11mm - Turquoise	100
H0.34/12T	Ferrule 0.37mm ² - length 12/16mm - Turquoise	100
H0.5/8O	Ferrule 0.5mm ² - length 8/14mm - Orange	100
H0.75/8W	Ferrule 0.75mm ² - length 8/14mm - White	100
H1.0/8Y	Ferrule 1.0mm ² - length 8/14mm - Yellow	100
H1.5/8R	Ferrule 1.5mm ² - length 8/14mm - Red	100
H2.5/8B	Ferrule 2.5mm ² - length 8/15mm - Blue	100
H2.5/12B	Ferrule 2.5mm ² - length 12/19mm - Blue	100
H4.0/10GR	Ferrule 4.0mm ² - length 10/18mm - Grey	50
H6.0/12BL	Ferrule 6.0mm ² - length 12/20mm - Black	100

BOOTLACE FERRULES - SINGLES

GERMAN (Z+F) STANDARD FERRULES - SMALL PACKET - CONTINUED



H10.0/12I	Ferrule 10.0mm ² - length 12/22mm - Ivory	100
H10.0/18I	Ferrule 10.0mm ² - length 18/28mm - Ivory	100
H16.0/12G	Ferrule 16.0mm ² - length 12/22mm - Green	100
H25.0/16BR	Ferrule 25.0mm ² - length 16/30mm - Brown	50
H35.0/16BE	Ferrule 35.0mm ² - length 16/30mm - Beige	50
H50.0/20OL	Ferrule 50.0mm ² - length 20/36mm - Olive	50
H70.0/21Y	Ferrule 70.0mm ² - length 21/37mm - Yellow	25
H95.0/25R	Ferrule 95.0mm ² - length 25/44mm - Red	25
H120.0/30B	Ferrule 120.0mm ² - length 30/50mm - Blue	25
H150.0/32Y	Ferrule 150.0mm ² - length 32/54mm - Yellow	25

GERMAN (Z+F) STANDARD FERRULES - OTHER PACKET SIZES



H0.5/10O	Ferrule 0.5mm ² - length 10/16mm - Orange	500
H0.5/12O	Ferrule 0.5mm ² - length 12/18mm - Orange	500
H0.75/10W	Ferrule 0.75mm ² - length 10/16mm - White	500
H0.75/12W	Ferrule 0.75mm ² - length 12/18mm - White	500
H1.0/10Y	Ferrule 1.0mm ² - length 10/16mm - Yellow	500
H1.0/12Y	Ferrule 1.0mm ² - length 12/18mm - Yellow	500
H1.5/12R	Ferrule 1.5mm ² - length 12/18mm - Red	500
H2.5/18B	Ferrule 2.5mm ² - length 18/25mm - Blue	500

KDS STANDARD FERRULES - SMALL PACKET



H0.5/8W	Ferrule 0.5mm ² - length 8/14mm - White	100
H0.75/8LB	Ferrule 0.75mm ² - length 8/14mm - Light Blue	100
H1.0/8R	Ferrule 1.0mm ² - length 8/14mm - Red	100
H1.5/8BL	Ferrule 1.5mm ² - length 8/14mm - Black	100
H2.5/8GR	Ferrule 2.5mm ² - length 8/15mm - Grey	100
H4.0/10O	Ferrule 4.0mm ² - length 10/18mm - Orange	50
H6.0/12G	Ferrule 6.0mm ² - length 12/20mm - Green	100
H35.0/16BE	Ferrule 35.0mm ² - length 16/30mm - Beige	50
H50.0/20OL	Ferrule 50.0mm ² - length 20/36mm - Olive	50

















KDS STANDARD FERRULES - OTHER PACKET SIZES

















H0.5/10W	Ferrule 0.5mm ² - length 10/16mm - White	500
H0.5/12W	Ferrule 0.5mm ² - length 12/18mm - White	500
H1.0/10R	Ferrule 1.0mm ² - length 10/16mm - Red	500
H1.0/12R	Ferrule 1.0mm ² - length 12/18mm - Red	500
H1.5/12BL	Ferrule 1.5mm ² - length 12/18mm - Black	500

BOOTLACE FERRULES - DOUBLE

DIN STANDARD DOUBLE BOOTLACE FERRULES

	H2x0.5/8W	Ferrule 2 x 0.5mm ² - length 8/14 - White	100
	H2x0.5/12W	Ferrule 2 x 0.5mm ² - length 12/18 - White	100
	H2x0.75/8GR	Ferrule 2 x 0.75mm ² - length 8/14 - Grey	100
	H2x0.75/12GR	Ferrule 2 x 0.75mm ² - length 12/18 - Grey	100
	H2x1.0/8R	Ferrule 2 x 1.0mm ² - length 8/15 - Red	100
	H2x1.0/12R	Ferrule 2 x 1.0mm ² - length 12/19 - Red	100
	H2x1.5/8BL	Ferrule 2 x 1.5mm ² - length 8/16 - Black	100
	H2x1.5/12BL	Ferrule 2 x 1.5mm ² - length 12/20 - Black	100
	H2x1.5/18BL	Ferrule 2 x 1.5mm ² - length 18/26 - Black	100
	H2x2.5/10B	Ferrule 2 x 2.5mm ² - length 10/19 - Blue	50
	H2x2.5/12B	Ferrule 2 x 2.5mm ² - length 12/21 - Blue	50
	H2x2.5/18B	Ferrule 2 x 2.5mm ² - length 18/27 - Blue	100
	H2x4.0/12GR	Ferrule 2 x 4.0mm ² - length 12/22 - Grey	100
	H2x6.0/12Y	Ferrule 2 x 6.0mm ² - length 12/23 - Yellow	100
	H2x10.0/12R	Ferrule 2 x 10.0mm ² - length 12/24 - Red	100
	H2x16.0/16B	Ferrule 2 x 16.0mm ² - length 16/29 - Blue	50

GERMAN (Z+F) STANDARD DOUBLE BOOTLACE FERRULES

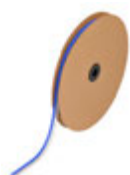
	H2x0.5/8O	Ferrule 2 x 0.5mm ² - length 8/12 - Orange	100
	H2x0.75/8W	Ferrule 2 x 0.75mm ² - length 8/14 - White	100
	H2x0.75/10W	Ferrule 2 x 0.75mm ² - length 10/16 - White	100
	H2x1.0/8Y	Ferrule 2 x 1.0mm ² - length 8/15 - Yellow	100
	H2x1.0/12Y	Ferrule 2 x 1.0mm ² - length 12/19 - Yellow	100
	H2x1.5/8R	Ferrule 2 x 1.5mm ² - length 8/16 - Red	100
	H2x1.5/12R	Ferrule 2 x 1.5mm ² - length 12/20 - Red	100
	H2x2.5/10B	Ferrule 2 x 2.5mm ² - length 10/19 - Blue	50
	H2x2.5/12B	Ferrule 2 x 2.5mm ² - length 12/21 - Blue	50
	H2x2.5/18B	Ferrule 2 x 2.5mm ² - length 18/27 - Blue	100
	H2x4.0/12GR	Ferrule 2 x 4.0mm ² - length 12/22 - Grey	100
	H2x6.0/12BL	Ferrule 2 x 6.0mm ² - length 12/23 - Black	100
	H2x10.0/12I	Ferrule 2 x 10.0mm ² - length 12/24 - Ivory	100
	H2x16.0/16G	Ferrule 2 x 16.0mm ² - length 16/29 - Green	50

KDS STANDARD DOUBLE BOOTLACE FERRULES

	H2x0.5/8W	Ferrule 2 x 0.5mm ² - length 8/14 - White	100
	H2x0.5/12W	Ferrule 2 x 0.5mm ² - length 12/18 - White	100
	H2x1.0/8R	Ferrule 2 x 1.0mm ² - length 8/15 - Red	100
	H2x1.0/12R	Ferrule 2 x 1.0mm ² - length 12/19 - Red	100
	H2x1.5/8BL	Ferrule 2 x 1.5mm ² - length 8/16 - Black	100
	H2x1.5/12BL	Ferrule 2 x 1.5mm ² - length 12/20 - Black	100
	H2x1.5/18BL	Ferrule 2 x 1.5mm ² - length 18/26 - Black	100

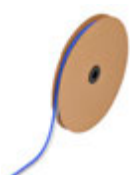
BOOTLACE FERRULES - ROLLS/STRIPS

DIN STANDARD BOOTLACE FERRULES IN ROLLS



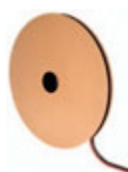
H0.5/8/5000W	Ferrule 0.5mm ² - length of uninsulated comp. 8mm - White	5000
H0.75/8/5000GR	Ferrule 0.75mm ² - length of uninsulated comp. 8mm - Grey	5000
H1.0/8/5000R	Ferrule 1.0mm ² - length of uninsulated comp. 8mm - Red	5000
H1.5/8/5000BL	Ferrule 1.5mm ² - length of uninsulated comp. 8mm - Black	5000
H2.5/8/3000B	Ferrule 2.5mm ² - length of uninsulated comp. 8mm - Blue	3000

GERMAN (Z+F) STANDARD BOOTLACE FERRULES IN ROLLS



H0.34/8/5000T	Ferrule 0.34mm ² - length of uninsulated comp. 8mm - Turquoise	5000
H0.5/8/5000O	Ferrule 0.5mm ² - length of uninsulated comp. 8mm - Orange	5000
H0.75/8/5000W	Ferrule 0.75mm ² - length of uninsulated comp. 8mm - White	5000
H1.0/8/5000Y	Ferrule 1.0mm ² - length of uninsulated comp. 8mm - Yellow	5000
H1.5/8/5000R	Ferrule 1.5mm ² - length of uninsulated comp. 8mm - Red	5000
H2.5/8/3000B	Ferrule 2.5mm ² - length of uninsulated comp. 8mm - Blue	3000

KDS STANDARD BOOTLACE FERRULES IN ROLLS



H0.5/8/5000W	Ferrule 0.5mm ² - length of uninsulated comp. 8mm - White	5000
H1.0/8/5000R	Ferrule 1.0mm ² - length of uninsulated comp. 8mm - Red	5000
H1.5/8/5000BL	Ferrule 1.5mm ² - length of uninsulated comp. 8mm - Black	5000

DIN STANDARD BOOTLACE FERRULES IN STRIPS (10 X 50)



H0.5/8/500W	Ferrule 0.5mm ² - length of uninsulated comp. 8mm - White	10x50
H0.75/8/500GR	Ferrule 0.75mm ² - length of uninsulated comp. 8mm - Grey	10x50
H1.0/8/500R	Ferrule 1.0mm ² - length of uninsulated comp. 8mm - Red	10x50
H1.5/8/500BL	Ferrule 1.5mm ² - length of uninsulated comp. 8mm - Black	10x50
H2.5/8/500B	Ferrule 2.5mm ² - length of uninsulated comp. 8mm - Blue	10x50

























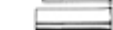
GERMAN (Z+F) STANDARD BOOTLACE FERRULES IN STRIPS (10 X 50)



H0.5/8/500O	Ferrule 0.5mm ² - length of uninsulated comp. 8mm - Orange	10x50
H0.75/8/500W	Ferrule 0.75mm ² - length of uninsulated comp. 8mm - White	10x50
H1.0/8/500Y	Ferrule 1.0mm ² - length of uninsulated comp. 8mm - Yellow	10x50
H1.5/8/500R	Ferrule 1.5mm ² - length of uninsulated comp. 8mm - Red	10x50
H2.5/8/500B	Ferrule 2.5mm ² - length of uninsulated comp. 8mm - Blue	10x50

UNINSULATED FERRULES & TOOLS

UNINSULATED BOOTLACE FERRULES

	H0.5/6	Uninsulated Ferrule 0.5mm ² - length 6mm	1000
	H0.75/6	Uninsulated Ferrule 0.75mm ² - length 6mm	1000
	H1.0/6	Uninsulated Ferrule 1.0mm ² - length 6mm	1000
	H1.0/10	Uninsulated Ferrule 1.0mm ² - length 10mm	1000
	H1.5/7	Uninsulated Ferrule 1.5mm ² - length 7mm	1000
	H1.5/10	Uninsulated Ferrule 1.5mm ² - length 10mm	1000
	H2.5/7	Uninsulated Ferrule 2.5mm ² - length 7mm	1000
	H2.5/12	Uninsulated Ferrule 2.5mm ² - length 12mm	1000
	H4.0/9	Uninsulated Ferrule 4.0mm ² - length 9mm	500
	H6.0/12	Uninsulated Ferrule 6.0mm ² - length 12mm	500
	H10.0/12	Uninsulated Ferrule 10.0mm ² - length 12mm	500
	H10.0/15	Uninsulated Ferrule 10.0mm ² - length 15mm	500
	H10.0/18	Uninsulated Ferrule 10.0mm ² - length 18mm	500
	H16.0/12	Uninsulated Ferrule 16.0mm ² - length 12mm	500
	H16.0/15	Uninsulated Ferrule 16.0mm ² - length 15mm	500
	H16.0/18	Uninsulated Ferrule 16.0mm ² - length 18mm	100
	H25.0/18	Uninsulated Ferrule 25.0mm ² - length 18mm	100
	H35.0/18	Uninsulated Ferrule 35.0mm ² - length 18mm	100
	H35.0/32	Uninsulated Ferrule 35.0mm ² - length 32mm	100
	H50.0/32	Uninsulated Ferrule 50.0mm ² - length 32mm	100
	H70.0/25	Uninsulated Ferrule 70.0mm ² - length 25mm	50
	H95.0/32	Uninsulated Ferrule 95.0mm ² - length 32mm	50
	H120.0/32	Uninsulated Ferrule 120.0mm ² - length 32mm	25
	H150.0/32	Uninsulated Ferrule 150.0mm ² - length 32mm	25
	H185.0/32	Uninsulated Ferrule 185.0mm ² - length 32mm	25

BOOTLACE FERRULE COLLECTION BOXES



V30SO000018	Empty Bootlace Ferrule Collection Box - 5 divisions
V30SO000015	Empty Bootlace Ferrule Collection Box - 5 coloured divisions
V30SO000041	DIN Std Ferrule Collection Box with 50x0.5, 100x0.75, 100x1.0, 100x1.5 & 50x2.5
V30SO000070	DIN Std Ferrule Collection Box with 50x0.5, 50x0.75, 50x1.0, 50x1.5 & 25x2.5 Twin
V30SO000001	German (Z+F) Std Ferrule Box with 50x0.5, 100x0.75, 100x1.0, 100x1.5 & 50x2.5
V30SO000069	German (Z+F) Std Ferrule Box with 50x0.5, 50x0.75, 50x1.0, 50x1.5 & 25x2.5 Twin

BOOTLACE FERRULE CRIMP TOOLS



Crimpit F6L

CrimpitFMulti	Ferrule Multifunction Crimp Tool - Cut, Strip & Crimp 0.5 to 2.5mm ² - Medium Use
CrimpitF6L	Crimp Tool - 0.5 to 6mm ² - Heavy Use
CrimpitF16L	Crimp Tool - 6 to 16mm ² - Heavy Use
CrimpitF25L	Crimp Tool - 6 to 25mm ² as well as Double Ferrules 4, 6 & 10mm ² - Heavy Use
CrimpitF50L	Crimp Tool - 35 to 50mm ² as well as Double Ferrules 16mm ² - Heavy Use

TERMS & CONDITIONS OF TRADE
- MARDAG HOLDINGS LIMITED

MARDAG HOLDINGS LIMITED - TERMS & CONDITIONS OF TRADE

1. Definitions

- 1.1 "Seller" means MARDAG Holdings Limited, its successors and assigns or any person acting on behalf of and with the authority of MARDAG Holdings Limited.
- 1.2 "Customer" means the person/s buying the Goods as specified in any invoice, document or order, and if there is more than one Customer is a reference to each Customer jointly and severally.
- 1.3 "Goods" means all Goods or Services supplied by the Seller to the Customer at the Customer's request from time to time (where the context so permits the terms 'Goods' or 'Services' shall be interchangeable for the other).
- 1.4 "Price" means the Price payable for the Goods as agreed between the Seller and the Customer in accordance with clause 4 below.

2. Acceptance

- 2.1 The Customer is taken to have exclusively accepted and is immediately bound, jointly and severally, by these terms and conditions if the Customer places an order for or accepts delivery of the Goods.
- 2.2 These terms and conditions may only be amended with the Seller's consent in writing and shall prevail to the extent of any inconsistency with any other document or agreement between the Customer and the Seller.

3. Change in Control

- 3.1 The Customer shall give the Seller not less than fourteen (14) days prior written notice of any proposed change of ownership of the Customer and/or any other change in the Customer's details (including but not limited to, changes in the Customer's name, address, email, contact phone or fax number/s, or business practice). The Customer shall be liable for any loss incurred by the Seller as a result of the Customer's failure to comply with this clause.

4. Price and Payment

- 4.1 At the Seller's sole discretion, the Price shall be either:
 - a) as indicated on any invoice provided by the Seller to the Customer; or
 - b) the Price as at the date of delivery of the Goods according to the Seller's current price list; or
 - c) the Seller's quoted price (subject to clause 4.2) which will be valid for the period stated in the quotation or otherwise for a period of thirty (30) days.
- 4.2 The Seller reserves the right to change the Price if a variation to the Seller's quotation is requested.
- 4.3 At the Seller's sole discretion a deposit may be required.

- 4.4 Time for payment for the Goods being of the essence, the Price will be payable by the Customer on the date/s determined by the Seller, which may be:

- a) on delivery of the Goods;
- b) for certain approved Customer's, due twenty (20) days following the end of the month for any invoice date;
- c) failing any notice to the contrary, the date which is seven (7) days following the date of any invoice given to the Customer by the Seller.

- 4.5 Payment may be made by cheque, electronic/on-line banking, or by any other method as agreed to between the Customer and the Seller.

- 4.6 Unless otherwise stated the Price does not include GST. In addition to the Price the Customer must pay to the Seller an amount equal to any GST the Seller must pay for any supply by the Seller under this or any other agreement for the sale of the Goods. The Customer must pay GST, without deduction or set off any other amounts, at the same time and on the same basis as the Customer pays the Price. In addition, the Customer must pay any other taxes and duties that may be applicable in addition to the Price except where they are expressly included in the Price.

5. Delivery of Goods

- 5.1 Delivery ("Delivery") of the Goods is taken to occur at the time that the Seller (or the Seller's nominated carrier) delivers the Goods to the Customer's nominated address even if the Customer is not present at the address.
- 5.2 At the Seller's sole discretion, the cost of delivery is not included in the price of the Goods and will be quoted for separately or charged at the Seller's nominated carrier's standard rates.
- 5.3 The Seller may deliver the Goods in separate instalments. Each separate instalment shall be invoiced and paid in accordance with the provisions in these terms and conditions.

6. Risk

- 6.1 Risk of damage to or loss of the Goods passes to the Customer on Delivery and the Customer must insure the Goods on or before Delivery.
- 6.2 If any of the Goods are damaged or destroyed following delivery but prior to ownership passing to the Customer, the Seller is entitled to receive all insurance proceeds payable for the Goods. The production of these terms and conditions by the Seller is sufficient evidence of the Seller's rights to receive the insurance proceeds without the need for any person dealing with the Seller to make further enquiries.

MARDAG HOLDINGS LIMITED - TERMS & CONDITIONS OF TRADE

- 6.3 If the Customer requests the Seller to leave Goods outside the Seller's premises for collection or to deliver the Goods to an unattended location, then such Goods shall be left at the Customer's sole risk.

7. Title

- 7.1 The Seller and the Customer agree that ownership of the Goods shall not pass until:

- a) the Customer has paid the Seller all amounts owing to the Seller; and
- b) the Customer has met all of its other obligations to the Seller.

- 7.2 Receipt by the Seller of any form of payment other than cash shall not be deemed to be payment until that form of payment has been honoured, cleared or recognised.

- 7.3 It is further agreed that:

- a) until ownership of the Goods passes to the Customer in accordance with clause 7.1 that the Customer is only a bailee of the Goods and must return the Goods to the Seller on request.
- b) the Customer holds the benefit of the Customer's insurance of the Goods on trust for the Seller and must pay to the Seller the proceeds of any insurance in the event of the Goods being lost, damaged, or destroyed.
- c) the Customer must not sell, dispose, or otherwise part with possession of the Goods other than in the ordinary course of business and for market value. If the Customer sells, disposes or parts with possession of the Goods then the Customer must hold the proceeds of any such act on trust for the Seller and must pay or deliver the proceeds to the Seller on demand.
- d) the Customer should not convert or process the Goods or intermix them with other goods but if the Customer does so then the Customer holds the resulting product on trust for the benefit of the Seller and must sell, dispose of or return the resulting product to the Seller as it so directs.
- e) the Customer irrevocably authorises the Seller to enter any premises where the Seller believes the Goods are kept and recover possession of the Goods.
- f) the Seller may recover possession of any Goods in transit whether or not delivery has occurred.
- g) the Customer shall not charge or grant an encumbrance over the Goods nor grant nor otherwise give away any interest in the Goods while they remain the property of the Seller.
- h) the Seller may commence proceedings to recover the Price of the Goods sold notwithstanding that ownership of the Goods has not passed to the Customer.

8. Personal Property Securities Act 1999 ("PPSA")

- 8.1 Upon assenting to these terms and conditions in writing the Customer acknowledges and agrees that:

- a) these terms and conditions constitute a security agreement for the purposes of the PPSA; and
- b) a security interest is taken in all Goods previously supplied by the Seller to the Customer (if any) and all Goods that will be supplied in the future by the Seller to the Customer.

- 8.2 The Customer undertakes to:

- a) sign any further documents and/or provide any further information (such information to be complete, accurate and up-to-date in all respects) which the Seller may reasonably require to register a financing statement or financing change statement on the Personal Property Securities Register;
- b) indemnify, and upon demand reimburse, the Seller for all expenses incurred in registering a financing statement or financing change statement on the Personal Property Securities Register or releasing any Goods charged thereby;
- c) not register a financing change statement or a change demand without the prior written consent of the Seller; and
- d) immediately advise the Seller of any material change in its business practices of selling the Goods which would result in a change in the nature of proceeds derived from such sales.

- 8.3 The Seller and the Customer agree that nothing in sections 114(1)(a), 133 and 134 of the PPSA shall apply to these terms and conditions.

- 8.4 The Customer waives its rights as a debtor under sections 116, 120(2), 121, 125, 126, 127, 129, 131 and 132 of the PPSA.

- 8.5 Unless otherwise agreed to in writing by the Seller, the Customer waives its right to receive a verification statement in accordance with section 148 of the PPSA.

- 8.6 The Customer shall unconditionally ratify any actions taken by the Seller under clauses 8.1 to 8.5.

9. Security and Charge

- 9.1 In consideration of the Seller agreeing to supply the Goods, the Customer charges all its rights, title and interest (whether joint or several) in any land, realty or other assets capable of being charged, owned by the Customer either now or in the future, to secure the performance by the Customer of its obligations under these terms and conditions (including, but not limited to, the payment of any money).

- 9.2 The Customer indemnifies the Seller from and against all the Seller's costs and disbursements including legal costs on a solicitor and own client basis incurred in exercising the Seller's rights under this clause.

MARDAG HOLDINGS LIMITED - TERMS & CONDITIONS OF TRADE

9.3 The Customer irrevocably appoints the Seller and each director of the Seller as the Customer's true and lawful attorney/s to perform all necessary acts to give effect to the provisions of this clause 9 including, but not limited to, signing any document on the Customer's behalf.

10. Customer's Disclaimer

10.1 The Customer hereby disclaims any right to rescind, or cancel any contract with the Seller or to sue for damages or to claim restitution arising out of any inadvertent misrepresentation made to the Customer by the Seller and the Customer acknowledges that the Goods are bought relying solely upon the Customer's skill and judgment.

11. Defects

11.1 The Customer shall inspect the Goods on delivery and shall within five (5) days of delivery (time being of the essence) notify the Seller of any alleged defect, shortage in quantity, damage or failure to comply with the description or quote. The Customer shall afford the Seller an opportunity to inspect the Goods within a reasonable time following delivery if the Customer believes the Goods are defective in any way. If the Customer shall fail to comply with these provisions the Goods shall be presumed to be free from any defect or damage. For defective Goods, which the Seller has agreed in writing that the Customer is entitled to reject, the Seller's liability is limited to either (at the Seller's discretion) replacing the Goods or repairing the Goods.

12. Returns

12.1 Returns will only be accepted provided that:

- a) the Customer has complied with the provisions of clause 11.1; and
- b) the Seller has agreed in writing to accept the return of the Goods; and issued a Goods Return Authority (GRA) number;
- c) the Goods are returned at the Customer's cost within 14 days of the delivery date; and
- d) the Seller will not be liable for Goods which have not been stored or used in a proper manner; and
- e) the Goods are returned in the condition in which they were delivered and with all packaging material, brochures, and instruction material in as new condition as is reasonably possible in the circumstances.

12.2 The Seller may (in its discretion) accept the return of Goods for credit but this may incur a handling fee of fifteen percent (15%) of the value of the returned Goods plus any freight.

12.3 Non-stocklist items or Goods made to the Customer's specifications are under no circumstances acceptable for credit or return.

13. Warranty

13.1 For Goods not manufactured by the Seller, the warranty shall be the current warranty provided by the manufacturer of the Goods. The Seller shall not be bound by nor be responsible for any term, condition, representation or warranty other than that which is given by the manufacturer of the Goods.

14. Consumer Guarantees Act 1993

14.1 If the Customer is acquiring Goods for the purposes of a trade or business, the Customer acknowledges that the provisions of the Consumer Guarantees Act 1993 do not apply to the supply of Goods by the Seller to the Customer.

15. Default and Consequences of Default

15.1 Interest on overdue invoices shall accrue daily from the date when payment becomes due, until the date of payment, at a rate of five percent (5%) per calendar month (and at the Seller's sole discretion such interest shall compound monthly at such a rate) after as well as before any judgment.

15.2 If the Customer owes the Seller any money the Customer shall indemnify the Seller from and against all costs and disbursements incurred by the Seller in recovering the debt (including but not limited to internal administration fees, legal costs on a solicitor and own client basis, the Seller's collection agency costs, and bank dishonour fees).

15.3 Without prejudice to any other remedies the Seller may have, if at any time the Customer is in breach of any obligation (including those relating to payment) under these terms and conditions the Seller may suspend or terminate the supply of Goods to the Customer. The Seller will not be liable to the Customer for any loss or damage the Customer suffers because the Seller has exercised its rights under this clause.

15.4 Without prejudice to the Seller's other remedies at law the Seller shall be entitled to cancel all or any part of any order of the Customer which remains unfulfilled and all amounts owing to the Seller shall, whether or not due for payment, become immediately payable if:

- a) any money payable to the Seller becomes overdue, or in the Seller's opinion the Customer will be unable to make a payment when it falls due;
- b) the Customer becomes insolvent, convenes a meeting with its creditors or proposes or enters into an arrangement with creditors, or makes an assignment for the benefit of its creditors; or
- c) a receiver, manager, liquidator (provisional or otherwise) or similar person is appointed in respect of the Customer or any asset of the Customer.

MARDAG HOLDINGS LIMITED - TERMS & CONDITIONS OF TRADE

16. Cancellation

- 16.1 The Seller may cancel any contract to which these terms and conditions apply or cancel delivery of Goods at any time before the Goods are delivered by giving written notice to the Customer. On giving such notice the Seller shall repay to the Customer any money paid by the Customer for the Goods. The Seller shall not be liable for any loss or damage whatsoever arising from such cancellation.
- 16.2 In the event that the Customer cancels delivery of Goods the Customer shall be liable for any and all loss incurred (whether direct or indirect) by the Seller as a direct result of the cancellation (including, but not limited to, any loss of profits).
- 16.3 Cancellation of orders for Goods made to the Customer's specifications, or for non-stocklist items, will definitely not be accepted once production has commenced, or an order has been placed.

17. Privacy Act 2020

- 17.1 The Customer authorises the Seller or the Seller's agent to:
- a) access, collect, retain and use any information about the Customer;
 - i) (including any overdue fines balance information held by the Ministry of Justice) for the purpose of assessing the Customer's creditworthiness; or
 - ii) for the purpose of marketing products and services to the Customer.
 - b) disclose information about the Customer, whether collected by the Seller from the Customer directly or obtained by the Seller from any other source, to any other credit provider or any credit reporting agency for the purposes of providing or obtaining a credit reference, debt collection or notifying a default by the Customer.
- 17.2 Where the Customer is an individual the authorities under clause 17.1 are authorities or consents for the purposes of the Privacy Act 1993.
- 17.3 The Customer shall have the right to request the Seller for a copy of the information about the Customer retained by the Seller and the right to request the Seller to correct any incorrect information about the Customer held by the Seller.

18. General

- 18.1 The failure by the Seller to enforce any provision of these terms and conditions shall not be treated as a waiver of that provision, nor shall it affect the Seller's right to subsequently enforce that provision. If any provision of these terms and conditions shall be invalid, void, illegal or unenforceable the validity, existence, legality and enforceability of the remaining provisions shall not be affected, prejudiced or impaired.
- 18.2 These terms and conditions and any contract to which they apply shall be governed by the laws of New Zealand and are subject to the jurisdiction of the courts of New Zealand.
- 18.3 The Seller shall be under no liability whatsoever to the Customer for any indirect and/or consequential loss and/or expense (including loss of profit) suffered by the Customer arising out of a breach by the Seller of these terms and conditions (alternatively the Seller's liability shall be limited to damages which under no circumstances shall exceed the Price of the Goods).
- 18.4 The Customer shall not be entitled to set off against, or deduct from the Price, any sums owed or claimed to be owed to the Customer by the Seller nor to withhold payment of any invoice because part of that invoice is in dispute.
- 18.5 The Seller may license or sub-contract all or any part of its rights and obligations without the Customer's consent.
- 18.6 The Customer agrees that the Seller may amend these terms and conditions at any time. If the Seller makes a change to these terms and conditions, then that change will take effect from the date on which the Seller notifies the Customer of such change. The Customer will be taken to have accepted such changes if the Customer makes a further request for the Seller to provide Goods to the Customer.
- 18.7 Neither party shall be liable for any default due to any act of God, war, terrorism, strike, lock-out, industrial action, fire, flood, storm or other event beyond the reasonable control of either party.
- 18.8 The Customer warrants that it has the power to enter into this agreement and has obtained all necessary authorisations to allow it to do so, it is not insolvent and that this agreement creates binding and valid legal obligations on it.



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