

# 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**.

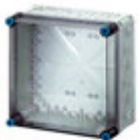
### JOINING MI COMPONENTS

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*

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## 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

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## 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)

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## 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



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### 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.