

Assembly of Mi distribution boards according to assembly draft

Pre-assembled and tested enclosures with electrical functions



Knock out of box walls for electrical connection and cable entry

Box walls are knocked out for the electrical connection within the distribution board.

For the assembly of the enclosures, the appropriate openings of the wedge joints are knocked out as well.



Assembly of boxes

For sealing the boxes in position, a self-adhesive wall gasket is stuck to the box wall (applies to closed box walls, too.)

The box assembly is carried out by a wedge connection.

To increase stability, press wall clamps onto the box fins.

Use a wall separator for subdividing 300 mm box walls into two 150 mm walls for flange or box mounting.



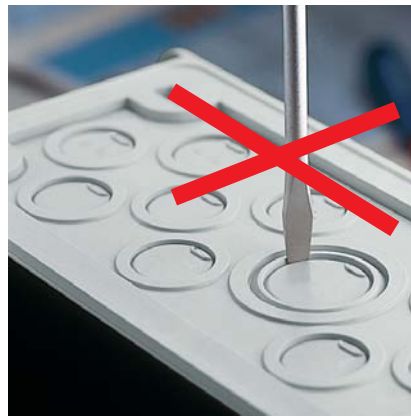
Flanges

Attach flanges by means of 4 wedge links and 1 clamp to the box wall.



Cable entry

Knock out the appropriate cable entries within flanges or box walls with screwdriver.



Cable glands

Insert cable gland into the appropriate knockout and fasten with lock nut.



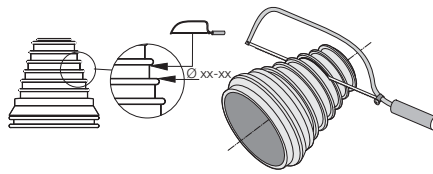
Assembly of cable insertion

Knock out the respective box wall and saw out the upper box fin next to the wedge fastening.

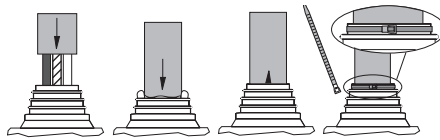
Screw mount the cable insertion and insert the rubber entries.



Adjust stepped grommet on the cable diameter.



Insert cable and fix it with cable ties.



Insert the cable into the box from the front.

Installation of extension frame

Fix attachments for extension frame in base of enclosure.

Right:
Place extension frame on base of enclosure.



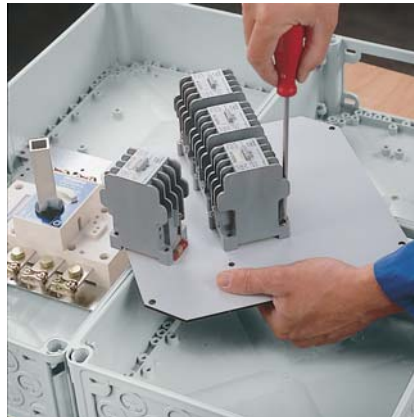
Fix extension frame with screws onto base of enclosure.



Device installation on mounting plates or DIN rails

Fasten installation devices on mounting plates with self-threading screws.

Screw mounting plate onto base of box.



Mount DIN rails directly onto base of boxes or on spacers Mi DS .. in heights of 25 or 50 mm.



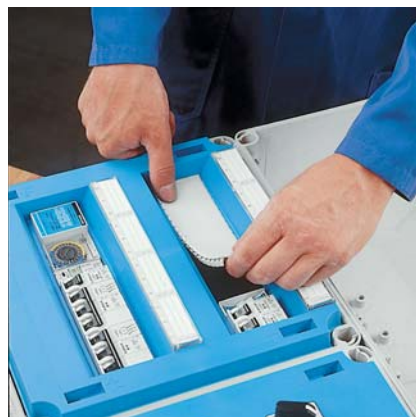
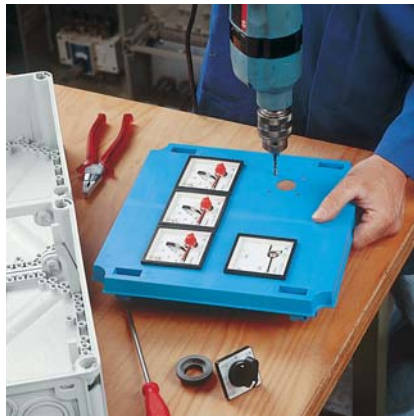
Installation of equipment in cover plates

Pre-drill the sections at the corners and saw out with piercing saw. Use saw blades with rough teeth for plastics.

Screw support for the protection cover Mi EP .. onto base of box.

Attach protection cover.

Close unused equipment openings in protection covers with attached blanking strips.



Mi Distribution Boards

**Technical details
Device installation, covers**

Device installation in circuit breaker boxes

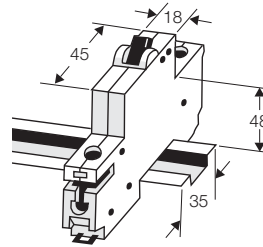
Circuit breaker boxes can be fitted with any DIN rail equipment, if per row (12 modules 12x18 mm) the assigned backup fuse won't exceed 80 A.



PE and N terminals for copper conductors (installed)

Note to Mi Circuit breaker boxes:
Spare equipment openings in protection covers are to be covered with blanking strips to prevent accidental contact (blanking strips are enclosed for 50 % of equipment openings)

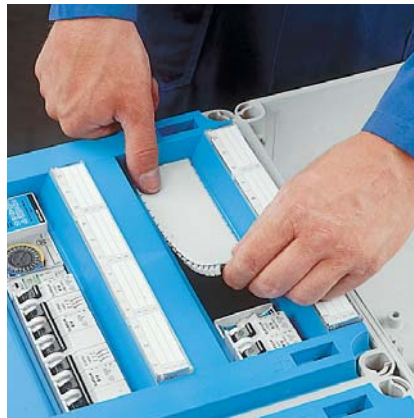
Dimension of 1 module:
1 Module = 18 mm




Dimensions according to DIN 43880 for DIN rail mounted device

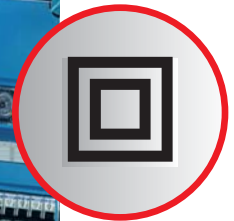
Protection covers

Cover unused equipment openings with blanking strips to prevent accidental contact.



Provide for total protection against access to hazardous parts for accessible devices and busbar-mounted equipment.

Protection class II, 
(Total insulation)



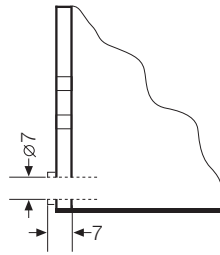
Mi Distribution Boards

Technical details

Wall mounting, floor standing

Wall mounting

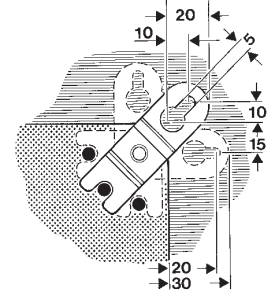
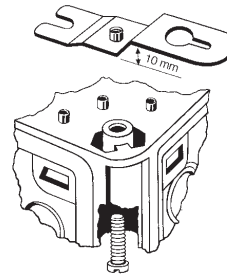
directly through the base of the box



External brackets

for external box fixing

Mi AL 40 (4 brackets)



Mounting profile

for wall-mounted installation of Mi-Distribution boards, steel profile, 1950 mm long, dividable in the grid of 150 mm.

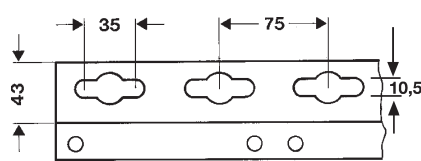
Mi MS 2



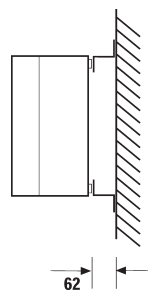
Note:

Please fix mounting profile in vertical position to enable a cable routing behind the assembly.

For cutting the required profile length fix mounting profile eg with a clamp to a desk.



Fixing matrix of mounting profile



Transport

Regarding transportation its recommendable to protect the assembly against deflection. For that please screw the assembly to a solid timber.