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INTRODUCTION

These installation instructions explain how to use OVR WBX enclosures for ABB OVR products. The protector(s), or Combined Mounting & Earthing (CME) kit(s), are simply mounted on the enclosure's metal base plate or DIN rail, which is in turn mounted in the enclosure.

To simplify installation we have written a different procedure for each similar group of enclosures, including:

OVR WBX 4, OVR WBX 4/GS, OVR WBX 8, OVR WBX 8/GS, OVR WBX 16/2/G, OVR WBX SLQ, OVR WBX SLQ/G

1. Safety note:

Warning! Installation by person with electrotechnical expertise only.

Warnung! Installation nur durch elektrotechnische Fachkraft.

Avvertenza! Fare installare solo da un elettricista qualificato.

Avertissement! Installation uniquement par des personnes qualifiées en électrotechnique.

Advertencia! La instalación deberá ser realizada únicamente por electricistas especializados.
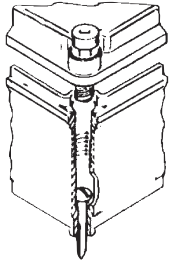

Figure 1:
OVR WBX enclosure bases are constructed with fixing holes at each corner.

2. Before installation

2.1 Ensure that the OVR WBX enclosure selected is appropriate for the OVR protector(s) to be enclosed:

	Appropriate Protector
OVR WBX 4, OVR WBX 4/GS	1 OVR CME 4 & associated protectors
OVR WBX 8, OVR WBX 8/GS	1 OVR CME 8 & associated protectors
OVR WBX 16/2/G	1 or 2 OVR CME 16 & associated protectors
OVR WBX SLQ, OVR WBX SLQ/G	15 x OVR**SL-series or 6 x OVR**Q-series protectors

2.2 Ensure the pack contents include the relevant screws and fixings for mounting the OVR protector to the enclosure.

Where stated, plastic screws fix the lid to the base, self tapping screws fix the base plate to the base and pan head slotted screws fix the protector to the base.

	Contents
OVR WBX 4, OVR WBX 4/GS	Enclosure base, enclosure lid (OVR WBX 4 - clear; OVR WBX 4/GS - grey), 4 grey plastic screws, 4 secure head grey plastic screws & tool (OVR WBX 4/GS only), metal base plate, 4 No 8 x ⅝" self tapping screws, 4 M5 pan head slotted screws (4 x 8 mm), 4 M5 flat washers
OVR WBX 8, OVR WBX 8/GS	Enclosure base, enclosure lid (OVR WBX 8 - clear; OVR WBX 8/GS - grey), 4 grey plastic screws, 4 secure head grey plastic screws & tool (OVR WBX 8/GS only), metal base plate, 4 No 8 x ½" self tapping screws, 4 M4 6 mm long plastic spacers
OVR WBX 16/2/G	Enclosure base & grey lid, 4 grey plastic screws, 2 metal base plates, 8 No 4 x ½" self tapping screws
OVR WBX SLQ	Enclosure base and clear lid, fitted DIN rail
OVR WBX SLQ/G	Enclosure base and grey lid, fitted DIN rail

Not included: Screws and fixings for mounting the enclosure. Suitable fixings should be used dependent on the mounting surface (eg solid wall, cavity etc). For ease of reference, the following sections on installation of OVR WBX enclosures have been separated according to the process through which the enclosures are installed. The relevant groupings are as follows:

	Reference Page
OVR WBX 4, OVR WBX 4/GS	See section 3
OVR WBX 8, OVR WBX 8/GS, OVR WBX 16/2/G	See section 4
OVR WBX SLQ, OVR WBX SLQ/G	See section 5

Note: When installing OVR WBX enclosures and making connections to OVR protectors, do NOT use power driven screwdrivers.

3. Installation - OVR WBX 4, OVR WBX 4/GS

3.1 Make a conduit entry
Conduit entries can be drilled or cut at any point along the sides of the enclosure base. To retain the enclosure's IP rating, appropriate glands must be used on all cable entries.

3.2 Fix the protector(s) to the base plate OVR WBX 4, OVR WBX 4/G
The enclosure base plate is predrilled and prepared for the installation of an OVR CME 4 and associated protectors.
Note how the base plate is formed, and fit with the captive nuts sitting on the enclosure base. Fix the protector (using the most appropriate M5 pan head slotted screws and M5 flat washers provided) or the OVR CME kit (which contains the necessary screws) to the base plate.

3.3 Fix the base plate to the base
Screw the enclosure base plate to the base using the self tapping screws provided.

	Self Tapping Screws
OVR WBX 4, OVR WBX 4/GS	4 x No 8 x ⅝"

3.4 Mount the enclosure base to a flat surface
The enclosure has preprepared mounting holes at each corner, with the following fixing centres:

	Fixing Centres
OVR WBX 4, OVR WBX 4/GS	215 x 140 mm

Taking care to position the enclosure so that it fulfils the location requirements of the protector(s), mark the fixing centres on the host surface, drill holes and screw the enclosure to the flat surface (see Figure 1).

Different surfaces require different types of screw. Ensure an appropriate type of screw and fixing is selected for mounting the enclosure onto the flat surface.

3.5 Connect the protector(s)
Make all necessary electrical connections to the protector(s). Hand tighten - do not use power driven screwdrivers.

3.6 Push the grey plastic screws into the lid
Line up the flat portions on the grey plastic lid screws with the corresponding flat portions in the corner lid fixing holes.

Then press on the screw heads to force the two small captivation tags past the flat portions in the lid fixing holes.

3.7 Secure the lid to the enclosure base
Place the lid over the base, ensuring that it seats correctly and then tighten the lid screws. Only moderate tightening of the screws is necessary for an effective seal - do not use power driven screwdrivers.

4. Installation - OVR WBX 8, OVR WBX 8/GS, OVR WBX 16/2/G

4.1 Make a conduit entry
Conduit entries can be drilled or cut at any point along the sides of the enclosure base. To retain the enclosure's IP rating, appropriate glands must be used on all cable entries.

4.2 Fix the OVR CME to the base plate (a) OVR WBX 8, OVR WBX 8/GS
The enclosure base plate is predrilled for the installation of a OVR CME 8 and associated protectors.
Fix the OVR CME kit (which contains the necessary screws) to the base plate.

(b) OVR WBX 16/2/G
This enclosure is supplied with two base plates - you will need to use one to install one OVR CME 16 and both to install two OVR CME 16s.

Each base plate is predrilled for the installation of a OVR CME 16 (and associated protectors).

Fix the OVR CME kit (which contains the necessary screws) to the base plate.

When installing one OVR CME 16 in the enclosure, fix it to the centre of the base plate. When installing two OVR CME 16s in the same enclosure, fix each to the off-centred holes on the base plate.

4.3 Fix the base plate to the base (a) OVR WBX 8, OVR WBX 8/GS
Using the four No 8 self tapping screws and spacers, fix the enclosure base plate to the base.

(b) OVR WBX 16/2/G
Using four self tapping screws for each, screw the enclosure base plate(s) to the base. When installing one OVR CME 16 in the enclosure, screw it to the centre of the base. When installing two OVR CME 16s in the same enclosure, position them off-centre with the OVR CME 16s away from each other, and screw them to the base.

4.4 Mount the protectors onto the OVR CME
For the OVR WBX 8 or OVR WBX 8/GS, mount the protectors onto the OVR CME 8.

For the OVR WBX 16/2/G, mount the protectors onto one or both of the OVR CME 16s as installed.

4.5 Mount the enclosure base to a flat surface
The enclosure has preprepared mounting holes at each corner, with the following fixing centres:

	Self Tapping Screws
OVR WBX 8, OVR WBX 8/GS	215 x 215 mm
OVR WBX 16/2/G	380 x 310 mm

Taking care to position the enclosure so that it fulfils the location requirements of the protector(s), mark the fixing centres on the host surface, drill holes and screw the enclosure to the flat surface (see Figure 1).

Different surfaces require different types of screw. Ensure an appropriate type of screw and fixing is selected for mounting the enclosure onto the flat surface.

4.6 Connect the protector(s)

Make all necessary electrical connections to the protector(s). Hand tighten - do not use power driven screwdrivers.

4.7 Push the grey plastic screws into the lid

Line up the flat portions on the grey plastic lid screws with the corresponding flat portions in the corner lid fixing holes. Then press on the screw heads to force the two small captivation tags past the flat portions in the lid fixing holes.

4.8 Secure the lid to the enclosure base

Place the lid over the base, ensuring that it seats correctly and then tighten the lid screws. Only moderate tightening of the screws is necessary for an effective seal - do not use power driven screwdrivers.

5. Installation

OVR WBX SLQ, OVR WBX SLQ/G

5.1 Make a conduit entry

Conduit entries can be drilled or cut at any point along the side of the enclosure base. To retain the enclosure's IP rating, appropriate glands must be used on all cable entries.

5.2 Fix the protector(s) to the DIN rail.

You can fit up to 6 x OVR**Q or 15 x OVR**SL (or a combination), simply by clipping the products onto the DIN rail.

5.3 Mount the enclosure base to a flat surface.

The enclosure has mounting holes at each corner, with 235 x 110 mm fixing centres. Mark, drill and screw the enclosure to the flat surface.

5.4 Connect the protector

Make all necessary electrical connections to the protector.

Hand tighten - do not use power driven screwdrivers.

5.5 Push the grey plastic screws into the lid

Line up the flat portions on the grey plastic lid screws with the corresponding flat portions in the corner lid fixing holes.

Then press on the screw heads to force the two small captivation tags past the flat portions in the lid fixing holes.

5.6 Secure the lid to the enclosure base

Place the lid over the base, ensuring that it seats correctly and then tighten the lid screws. Only moderate tightening of the screws is necessary for an effective seal - do not use power driven screwdrivers.

Environment

Consider the protection of the environment! Used electrical and electronic equipment must NOT be disposed of with domestic waste. The device contains valuable raw materials which can be recycled. Therefore, contact ABB for disposal of this equipment.

Notes

INSTALLATION INSTRUCTIONS

for weatherproof boxes

OVR WBX

ABB

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