Schneider Electric

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Iso-Gard® Recessed Wall Box for LIOM
MLHG6B-AU

Recessed Wall Box

230mm

Studs for attaching the
Backplate Assembly
(3 places)

260mm

Bendable tabs for
setting the depth in
the wall (8 places)

71mm
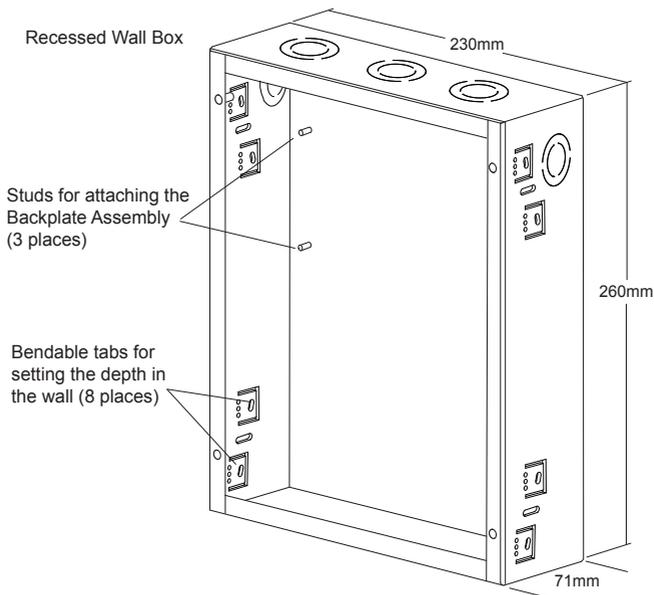
ISO·GARD®
Line Isolation Monitor

Instructions

Suitability

Recessed Wall Box, catalogue number **MLHG6B-AU**, is suitable for stud framed or metal framed construction. The wall box has bendable flanges that provide the correct mounting depth in the cavity when single-thickness or double-thickness gyprock is used. Install the wall box so that it is slightly recessed (approx. 4mm) behind the finished wall surface. This will ensure that there are no gaps when the front panel and LIM are installed.

Some hardware items required for the wall box are not included with the product. The installer is responsible for obtaining the electrical fittings and fasteners locally.

Important!

Only qualified installers shall place the line voltage conductors inside the wall box. This document should not be viewed as sufficient for those who are not otherwise qualified to operate or service an LIOM system.

Safety

The line voltage wiring must be disconnected from the power source during installation and during periods when the LIOM and the front panel are not in place.

If you have any questions regarding safe practices during installation or operation of the LIOM, please contact Technical Support, or your site safety officer.

Related Information

The ***Iso-Gard Line Isolation & Overload Monitor Installation and Reference Guide*** is essential for the proper configuration and testing of the LIOM.

The document can be freely downloaded as a PDF file from the Internet at the following location: **http://www.clipsal.com/cis**

Select Technical and Product Groups and Medilec. You can view and print the PDF file using the Acrobat Reader available at **adobe.com**

Selecting a Location

Make sure that the LIOM is installed at a convenient height for viewing the display and using the front panel buttons to make menu selections.

Do NOT install the LIOM in a location where it can be damaged by any of the following:

* Doors opening or closing or heavy foot traffic, such as in passageways where equipment carts are used.
* Direct sunlight or direct sources of heat or steam.
* Exposure to harsh chemicals, either liquid or airborne.
* Unauthorised persons tampering with the unit.

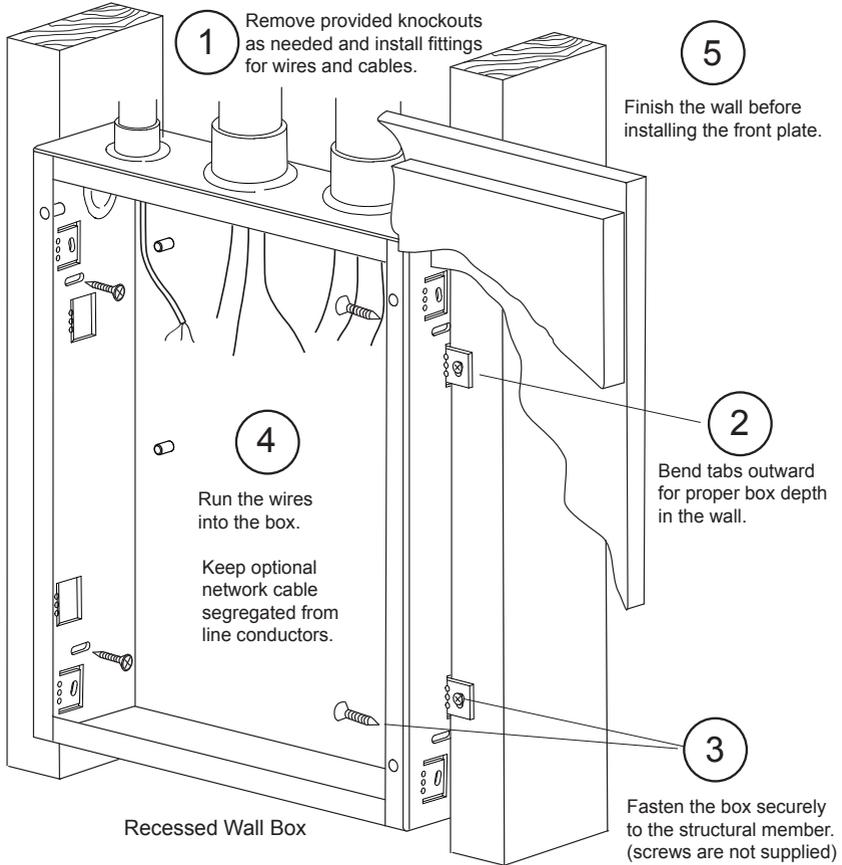## Wiring Connections to the Wall Box

Where the wired connections enter the wall box, you must provide protection for the insulation. Fittings are not provided by Schneider Electric.

If the optional Remote Display Panel feature is used, keep the display network cables segregated from the line conductors. The table below shows the typical wiring connections to the LIOM.

Conductor Designator	Source or Destination	Function
L1 In	From customer's isolated power supply	Line Input 1 to the LIOM
L1 Out	To customer's load centre	Line Output 1 from the LIOM
L2 In	From customer's isolated power supply	Line Input 2 to the LIOM
L2 Out	To customer's load centre	Line Output 2 from the LIOM
(E) Earth (Gnd)	Earthing wires	Safety Ground
+12Vd.c.	Remote Display Unit(s)	Optional item
DC comm	Remote Display Unit(s)	Optional item
A	Remote Display Unit(s)	Optional RS-485 network
B	Remote Display Unit(s)	Optional RS-485 network

Installation

Step 1: Remove provided knockouts as needed for the wire fittings. If you are installing the RS-485 network, provide a separate entry for the cable.

① Remove provided knockouts as needed and install fittings for wires and cables.

⑤ Finish the wall before installing the front plate.

② Bend tabs outward for proper box depth in the wall.

④ Run the wires into the box.

Keep optional network cable segregated from line conductors.

③ Fasten the box securely to the structural member. (screws are not supplied)

Recessed Wall Box

Use a punch or screwdriver and a hammer to remove a knockout

Punch from the outside of the box to remove a large (outer) knockout ⟶

Punch from the inside of the box to remove a small (inner) ⟵ knockout

Step 2:   Bend tabs outward as required to obtain the proper depth in the wall. the tabs nearest the front for single-thickness wall board and the tabs farthest from the front for double-thickness wall board. Fasten the box securely to the framing members. When the box is installed, the front surface of the box should be recessed behind the finished wall's surface by approximately 4mm.

Step 3:   Fasten the Recessed Wall Box to timber or metal frame members. If possible, use framing on both sides of the wall box. The screw slots on the box are elongated to allow for some adjustment. Use screws at each of the bent-over tabs when possible. Also, use screws to attach the side of the wall box to the frame member to ensure a solid installation.

Step 4:   Run the electrical wires into the wall box before sealing up the wall. If you are installing the RS-485 network, keep the network cable segregated from the line voltage conductors. Make sure that no live wires are protruding into the open area. Refer to the LIOM Setup Guide.

Step 5:   After all mechanical fitting is done and the wires are accessible inside the wall box, the wall can be finished.

Technical and Sales Support

For assistance with technical problems or warranty enquiries, contact your nearest Schneider Electric sales representative.

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