

NOTE: Cable glands not supplied. The unit is supplied with plugs.

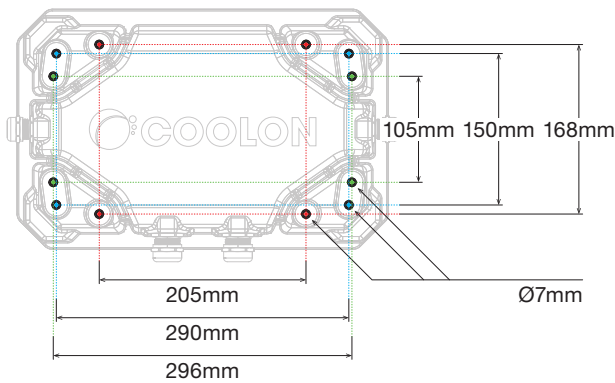


ATTENTION: Isolate unit externally before opening.

INSTALLATION INSTRUCTIONS

Step 1

The mounting holes are designed to fit most common industrial bulkhead footprints making replacement easy. If the holes don't match or if this is a new installation pick the set of holes which are most convenient.



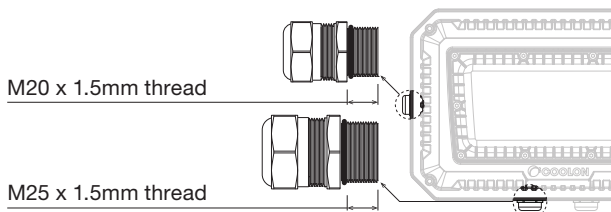
The Coolon Bulkhead unique mounting footprint is compatible with the footprint of the following products:

- THORN Lighting - DB Bulkhead
- EYE Lighting - Passlight
- Pierlite - NXS Bulkhead
- We-Ef Lighting - BUC134
- Pierlite - NEXUS LED Bulkhead

An adaptor plate is available to match the footprint of the Versalux EBH.

Step 2

Mount cable glands (not supplied). The base allows for in and out mains connection. The horizontal entry points allow for M20x1.5 cable gland mounting. The vertical entry points allow for M25x1.5 cable gland mounting.

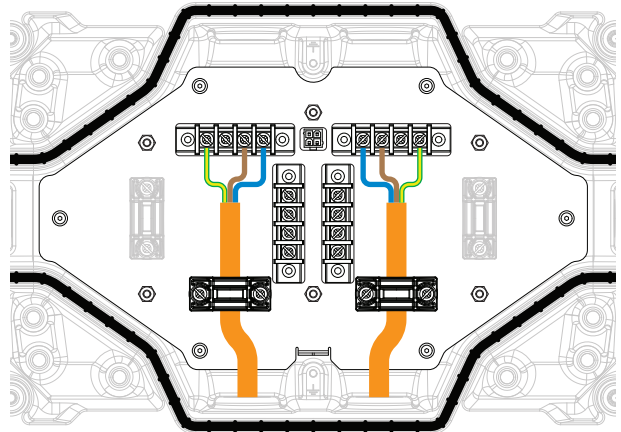


For high vibration areas we recommend the use of Loctite® 222 on the thread.

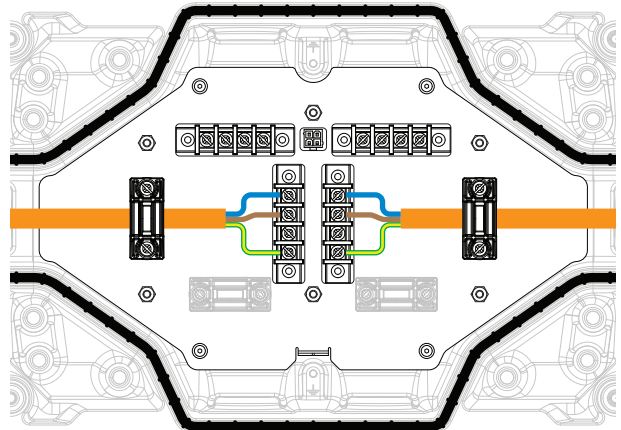
Step 3

Feed mains connection. Once suitable connections are made the incoming cable and optional outgoing cable are to be clamped. (See operating modes for wiring / operation options)

VERTICAL FEED



HORIZONTAL FEED



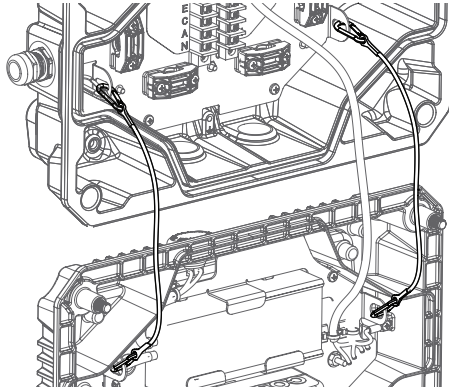
Depending on the diameter of the power cable select the most appropriate cable gland / entry:

- M20 cable gland for 10 – 13mm cable
- M25 cable gland for 13 – 15.5mm cable

INSTALLATION INSTRUCTIONS (CONTINUED)

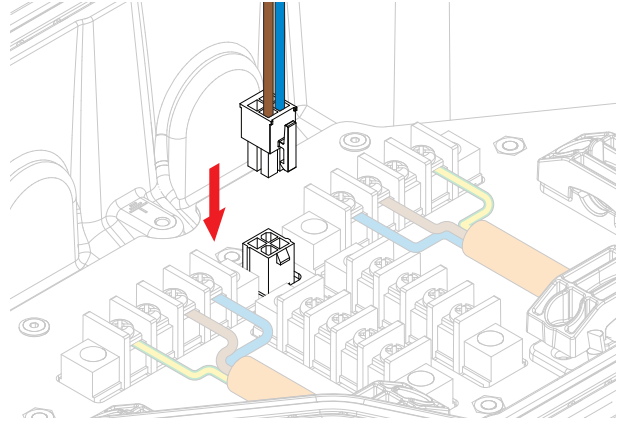
Step 4

Attach the lanyards from the light engine to the tabs located on base plate using the carabiner.



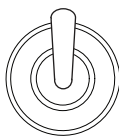
Step 5

Connect the light engine to the base by connecting the power connection plug to the base power connection socket.



Step 6

Put the battery isolation switch into the 'ON' position and reattach the connection cover.

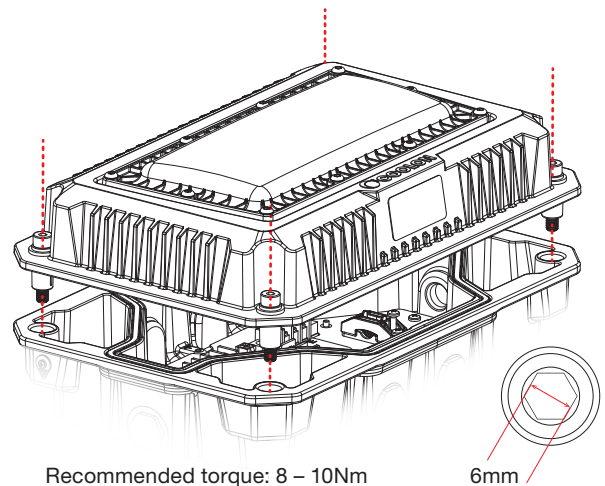


Battery isolation switch
Must be in 'ON' position
for in-service operation

NOTE: Switching the Battery Isolation switch to the ON position without having mains connected will result in the unit operating in EM mode for 2 minutes. This prevents accidental discharge of batteries during maintenance. Once mains is connected the unit will change states to in-service operation and will operate for the full expected EM time once mains fails or is disconnected.

Step 7

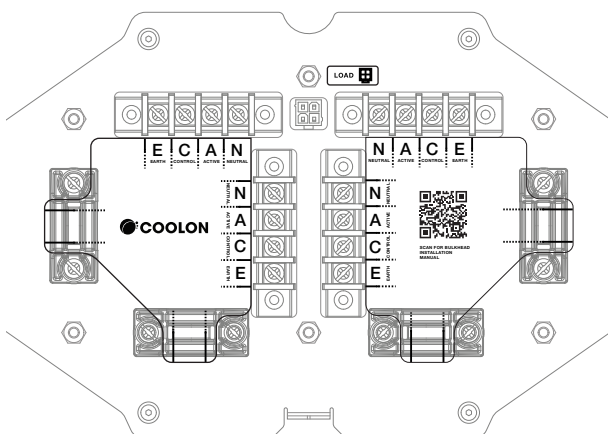
Secure the lid to the base using 4 captive screws. Ensure the base gasket is intact and free of any debris.



Recommended torque: 8 – 10Nm

6mm

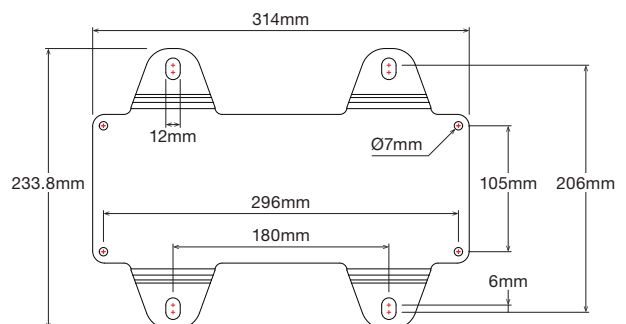
TERMINAL CONNECTION



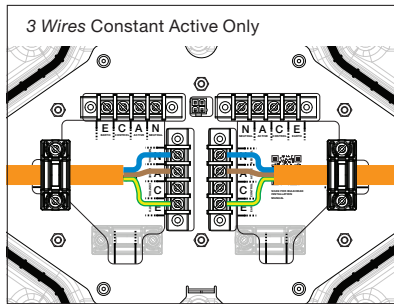
ADAPTER PLATE

ACC-AP-VEBH-BH-SS

Adapter Plate, to match Versalux EBH and Coolon Bulkhead, 3mm Stainless Steel 304 #4

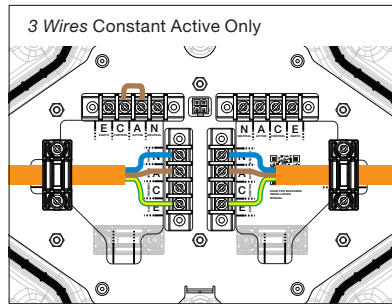


EMBH Operating Modes



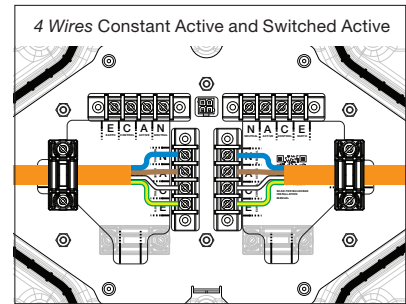
NON-MAINTAINED

Emergency use only



MAINTAINED

Always ON



SWITCHED

Conventional luminaire use with emergency backup

PLEASE NOTE: The red LED indicator is located on the LED PCB top-center, under the optical cover.
Under MAINTAINED or ON-state SWITCHED operation the LED may be difficult to see.

| OPERATION STATE | ACTIVE | CONTROL | LUMINAIRE STATE | DESCRIPTION |
|-----------------|--------|------------|-----------------|---|
| Non-Maintained | ON | N/A | OFF | Luminaire light OFF. Red LED indicator will indicate mains presence with Red Indicator LED ON. |
| Non-Maintained | OFF | N/A | ON-EM | Luminaire light ON in EM mode (power supplied from battery). Red LED indicator will not be visible. |
| Maintained | ON | ON (Link) | ON | Luminaire light ON. Red LED indicator will indicate mains presence with Red Indicator LED ON. |
| Maintained | OFF | OFF (Link) | ON-EM | Luminaire light ON in EM mode (power supplied from battery). Red LED indicator will not be visible. |
| Switched | ON | ON | ON | Luminaire light ON. Red LED indicator will indicate mains presence with Red Indicator LED ON. |
| Switched | ON | OFF | OFF | Luminaire light OFF. Red LED indicator will indicate mains presence with Red Indicator LED ON. |
| Switched | OFF | ON or OFF | ON-EM | Luminaire light ON in EM mode (power supplied from battery). Red LED indicator will not be visible. |

Emergency Pack Operation

- Initial installation is performed with mains line de-energized. Active, Neutral, Earth and Control (optional) wires are to be wired and secured in their respective terminals. If no Control wire is present and a Maintained Mode is required, "C" (Control) and "A" (Active) terminals should be bridged by a link (not included). For a non-maintained mode leave "C" terminal unconnected.
- Once mains wires connected, the battery switch must be set to "ON" position. This forces EMBH to enter a "TEST" mode, where it would enable Battery Module to supply power to LEDs for a duration of 2 minutes. This indicates that the battery is functional and is in working order. After 2 minutes the light switches itself OFF. Installer completes the installation by closing the lid and securing it using provided captive screws.
- Once mains power is applied, the RED indicator light is switched ON, indicating a presence of mains power. The unit must be energized for more than 2 minutes before the final commissioning power cycle test.
NOTE: that even if the unit is in maintained mode, it still requires power cycle test to be complete before its intended operation.
- Power Cycle Test is done by removing mains power after more than 2 minutes being energized and having a battery switch in a correct "ON" position. Once mains power is removed, EMBH will enter Emergency Mode, and the light will turn ON. Apply the mains power again, and the unit will enter its intended operational mode:
 - If it is wired as "maintained", the light will stay ON and become brighter. Red Indicator Light will come ON, indicating the presence of mains voltage.
 - If EMBH is in non-maintained mode, Red indicator light will come ON and the light will turn OFF.
 - If the battery isolation switch is left in "OFF" position when mains power is applied, the Red Indicator LED will flash.
- Pressing the "TEST BUTTON" on the lid will disconnect the mains simulating a power outage. The Red Indicator LED will stop illuminating and the EMP will operate in emergency mode if the battery isolation switch is in the "ON" position.
- If a Battery Switch is in ON position and mains power is present, the Red Indicator LED will stay ON. Flashing Red light in this case would indicate a problem with emergency luminaire. Contact Coolon if this situation occurs.

Commissioning Test

Once energized allow up to 10 seconds for the EM controller to go through the self-test procedure. After 16 hours of uninterrupted mains power Coolon Emergency Luminaire is ready for commissioning test. In the absence of mains power the EMBH emergency LED luminaire will operate for a minimum of 2 hours during the commissioning test and 1.5 hours during its service life.

Battery Replacement Procedure

The EMBH emergency LED luminaire is designed to operate providing specified emergency operating time using the in-built battery for the life of the product. As a result there is no field battery replacement capability.

Coolon App

Coming soon Bluetooth/Coolon App allows to significantly shorten inspection and testing time by providing the information on the battery state of charge and its health. It would also provide an estimated operation time of EMBH in the event of power failure and keep track of such events.