

Integrated LED Bulkhead with Emergency Module Option

Please read these instructions thoroughly before use and retain for future reference.

Safety Information

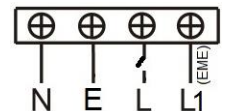
- Installation must be carried out in accordance with national building and wiring regulations. If you are in any doubt about installing this product, please consult a qualified electrician.
- Before commencing installation or any maintenance, turn off and isolate the circuit to be worked on by removing the fuse or switching the circuit breaker off at the distribution board.
- This product is suitable for connection to a 220-240Vac 50/60Hz supply.
- This is an **IP65** rated **Class II** product not requiring an Earth connection.
- If connecting the luminaire to independent sensors or time switches, ensure that the control device does not leak a voltage through the luminaire in the off state. Leaked voltages may accumulate and cause intermittent flashes in the off state.
- When drilling holes take care not to damage existing wiring or pipework.

Products Covered:

MEO25-SCT	MEO25-SCT/S
MEO25-SCT/E	MEO25-SCT/ES
MEO40-SCT	MEO40-SCT/S
MEO40-SCT/E	MEO40-SCT/ES

Basic Installation Information

- Remove the outer ring (A) by twisting anti-clockwise, then undo the screws securing the LED module (B) into the luminaire.
- Disconnect the LED module from the luminaire by separating the flat black 3-pin plug and socket connector.
- The bulkhead has cable entries with rubber grommets on the rear (C). Cut a small hole in the rubber and feed the supply cable through, ensuring that a seal is maintained around the cable to prevent water ingress.
- Decide on the location of the bulkhead and fix the body to the mounting surface using suitable fixings and the supplied spacers, if necessary, ensuring a rubber washer is placed between the screw head and the fitting to form a seal on the inside.
- Feed the supply cable through the grommet and connect to the terminals (D) as follows:



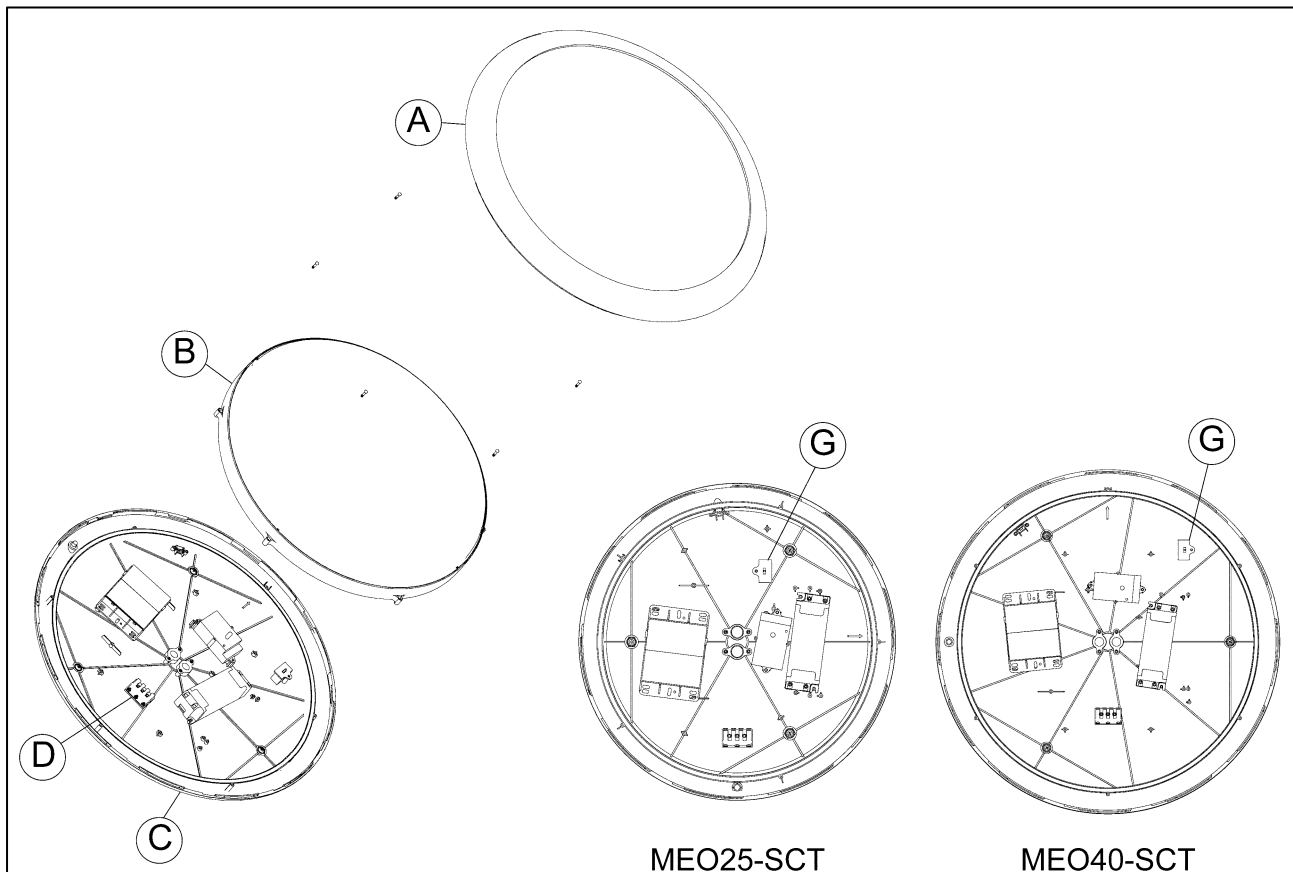
Brown – Switched Live (L) for Normal Switching Operation

Brown – Un-switched Live (L1) for Permanent Emergency Module Supply

Blue – Neutral (N)

Green/Yellow – Earth (E) for Optional Earth Continuity

- If the luminaire has the emergency module (E) option or microwave sensor (F) follow the additional instructions below before continuing
- Set the colour temperature of the light as detailed below using the CCT switch (G)
- Ensure that all electrical connections are secure with no loose strands.
- Reconnect the LED module (B) to the luminaire by joining the flat black 3-pin plug and socket connector.
- Secure the LED module into the luminaire with the screws, **ensuring the probe on the sensor, if fitted, aligns with the hole in the LED module**, and then secure the outer ring by twisting clockwise.
- Reconnect the power supply.



Setting the Colour Temperature (CCT)

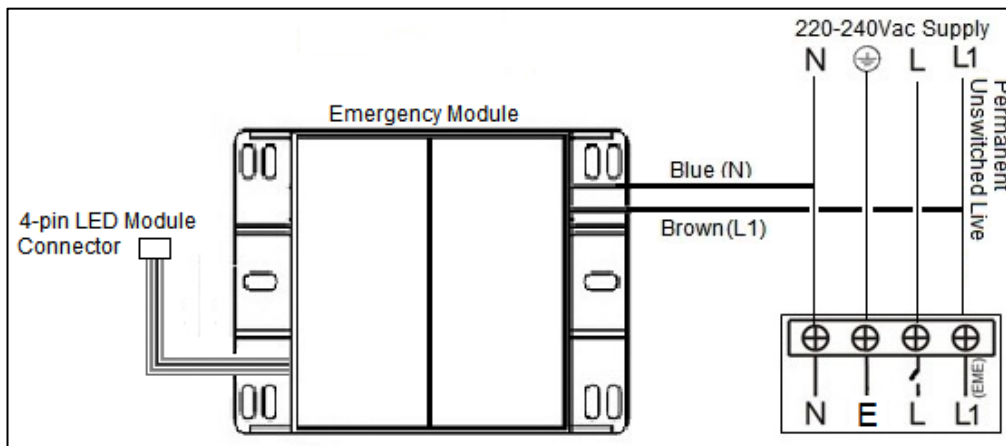
The colour temperature can be selected by setting the CCT switch (G) according to this table:

Setting	CCT
WW	3000 K
NW	4000 K
CW	5000 K

Optional Emergency Module

- The optional emergency module (E) provides power in the event of a cut in the supply and must be wired to the un-switched supply through the un-switched live terminal (L1).
- Referring to the diagram above, install the emergency module (E) where shown.
- The brown and blue wires from the emergency module connect to the terminals as follows and shown below:
 - Brown – Un-switched Live (L1) for Permanent Emergency Module Supply**
 - Blue – Neutral (N)**
- The emergency module battery is installed within the emergency module, which should be delivered with the battery disconnected.
- Open the battery compartment cover on the emergency module and connect the battery.**
- Write the commissioning date on the battery label and replace the cover.
- Connect the flat four pin output plug from the emergency module (E) to the socket on the cable from the LED module (B).**
- Stick the Maintained or Non-Maintained emergency luminaire label on the luminaire.
- The battery leaves the factory in a charged state but may take up to 12 hours to fully charge for a 3-hour test. Charge for 5 minutes before performing a functional test to ensure there is some charge in the battery.
- To test the standard emergency module function, both the switched and un-switched supply will need to be turned off.
- Replace the battery when the luminaire fails to meet the 3-hour duration requirement in testing.

Emergency Module Wiring



Setting the Optional Microwave Sensor

- The microwave sensor detects any movement, not just people and animals, so be careful not to install the luminaire where the movement of trees or curtains and such may lead to nuisance switching.
- The microwave sensor will detect in a 140° angle within a range of a 2-10m radius.
- The optimum mounting height for the best detection is 3m.
- Set the microwave sensor DIP switches as follows:

Detection Range

DIP switches S1 and S2 control the microwave detection sensitivity. On the highest setting the sensor will detect movement within a 10m radius when mounted at 3m high and switch the luminaire on if other settings allow. Setting the detection range too high for the conditions may lead to unwanted switching.

S1	S2	Range
0	0	2m
0	1	5m
1	0	8m
1	1	10m

Hold Time

DIP switches S3, S4 and S5 control the time the luminaire can be set to stay on after motion is no longer detected. Once switched off there is a delay of 4 seconds before detection begins again. It is recommended that the shortest time setting be applied for adjusting the other settings.

S3	S4	S5	Hold Time
0	0	0	10s
0	0	1	1min
0	1	0	5min
0	1	1	10min
1	0	0	15min
1	0	1	20min
1	1	0	25min
1	1	1	30min

Daylight Sensor

DIP switches S6, S7 and S8 control the daylight threshold. If the ambient light level is above this level the sensor will not switch the luminaire on.

S6	S7	S8	Lux
0	0	0	Disable
0	0	1	10Lux
0	1	0	20Lux
0	1	1	50Lux
1	0	0	100Lux
1	0	1	200Lux
1	1	0	300Lux
1	1	1	500Lux

We hereby declare that this product meets the requirements of the **EU Radio Equipment Directive 2014/53/EU**. Declaration is issued under the sole responsibility of the manufacturer. Conforms to:

- EN 300 440 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods
- EN 301 489-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- EN 301 489-3 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz



The Waste Electrical & Electronic Equipment Regulations (WEEE) require that products bearing this symbol must not be disposed of with household waste as they may contain substances harmful to the environment. The Local Authority can provide advice on recycling.