Operating Instructions - BulkLED

Gerneral Description

BulkLED fittings are fully automatic self testing emergency lighting luminaires and do not require key switch testing facility.

1. Luminaires should only be installed by suitably qualified personnel.

2. Installation should be carried out in accordance with the requirements of BS7671 and BS5266 Pts 1, 7 and 8.

3. Before installing, connecting or servicing these luminaires, isolate the mains supply to which they are to be connected.

Technical Specification	
Supply Voltage	230V +10% -10%, 50/60Hz
Mode of Operation	Non Maintained or Maintained
Weight	1.9Kg
Emergency Duration	3 hours
Recharge period	24 hours for full duration (14 hours for 1 hour)
Light sources	3 x 1w LEDs High Efficiency white
Battery	2.4V 1500mAh High Temperature NiCad
Ambient temperature	+0°C to +25°C
Degree of Protection	IP65
Conformity	BSEN 60.598-2-22

Testing regime

Luminaires incorporate fully automatic selt testing and will regularly test for correct lamp (LEDs) functioning and for battery functioning in accordance with a predefined test programme that exceeds the requirements of BSEN50172 / BS5266 Pt.8: 2004.

See separate FASTEL test regime description.

Remote control and monitoring (SRM units only)

All SRM version luminaires incorporate remote control and monitoring capability. Luminaires may be connected via collector boxes and interface boxes either to a local computer or to a LAN or Internet connection and remotely controlled and monitored. All SRM luminaires are assigned individual addresses before leaving the factory and should be installed in accordance with the installation plans. Details of the remote control and monitoring operation may be found in separate sheet.

P4 Limited
1 Wymans Way, Fakenham, Norfolk NR21 8NT
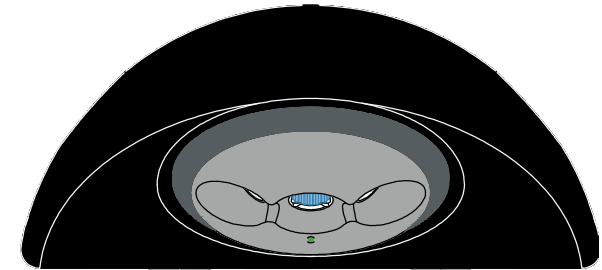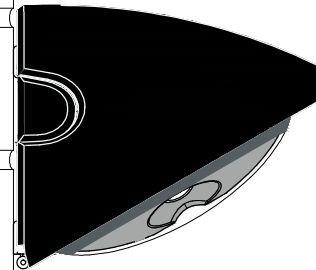**T:** 01328-850555
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Leading the way in self testing emergency lighting

Installation and Operating Instructions for BulkLED

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1   Removal of Mounting Plate

1. Remove the BulkLED from the protective packaging. (**fig 1**) Unscrew the security screw on top of the fitting with the key provided and remove, keeping the screw in a safe place for re-fitting later on.
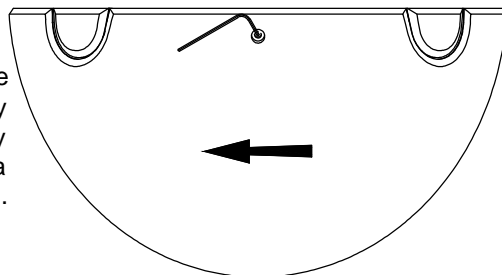
fig 1.

(**fig 2**) With the screw removed rotate the mounting plate on its hinges and disconnect the power & comms cables (if fitted). When the cables have been disconnected slide the mounting plate to the left and off the hinges. Put the front casting back into the protective box to prevent damage during installation.
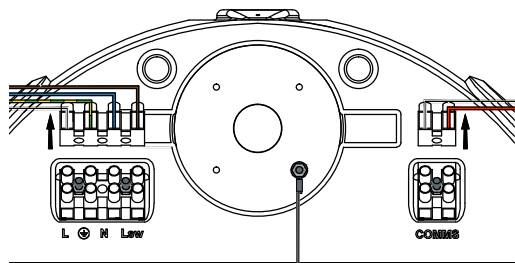
NOTE: Comms Cable only fitted to Computer Addressable or DALI Fittings.

fig 2.

2   Removing Conduit Hole Blanking Plates

Pick option **a.** or **b.** to suit your fixing requirements.

a   Conduit Box Mounted
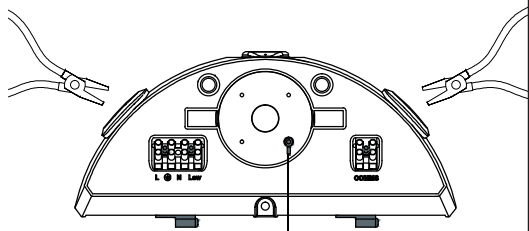
2a. Snap off the Conduit Hole Blanking Plates using a pair of Pliers. When the Blanking Plates have been removed use a Half Round File around the edge to remove any sharp edges.
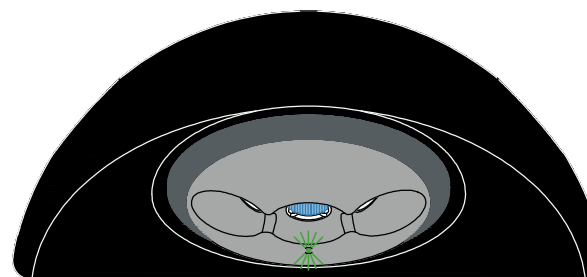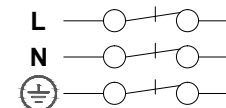
Move onto **Step 3a**.

b   Wall Mounted

2b. Conduit Hole Blanking Plates do not need to be removed for wall mounted units.
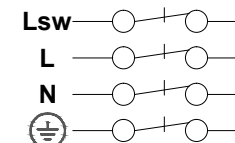
Move onto **Step 3b**.
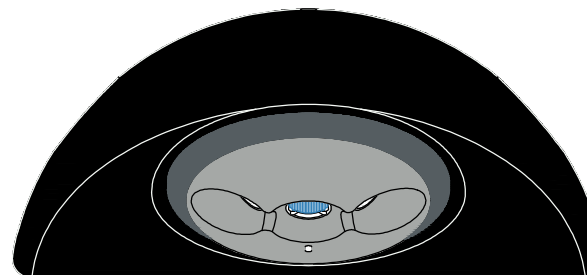
10   Applying Mains Supply

Non Maintained
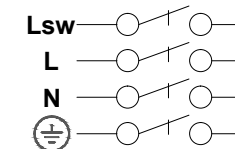
L
N

Maintained

Lsw
L
N

If fitted see product specification

10. Apply mains supply to test the luminaire. The indicator LED will show flashing green and the LEDs will illuminate if the Switched Live supply is connected and switched on.

11   Test Emergency Supply

Maintained

Lsw
L
N

11. To test, briefly fail the supply to illuminate the LEDs from the internal battery. The indicator LED will be extinguished.

12   Reconnect Mains Supply

12. Reconnect the unswitched supply to restart battery charging, indicated by the flashing green indicator LED. Reconnection of the Switched Live will re-illuminate the LEDs from the mains supply if connected for maintained operation.
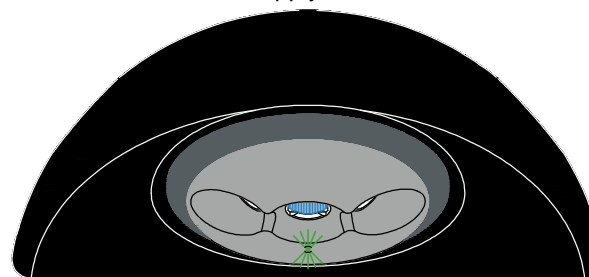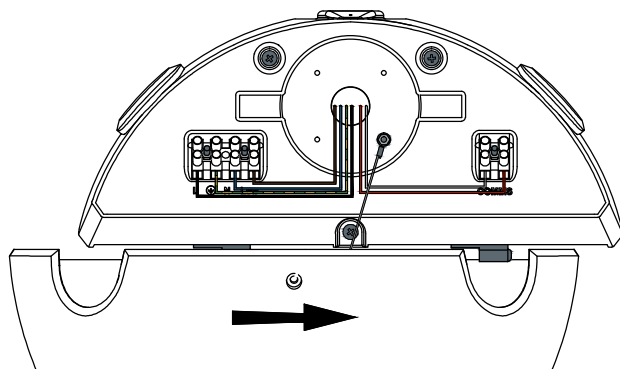
8) Re-Fitting of Front Casting

fig 1.

8. Take the front casting from the protective packaging and slide the male/female hinges together. See **fig 1**.

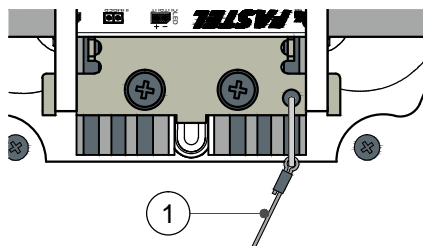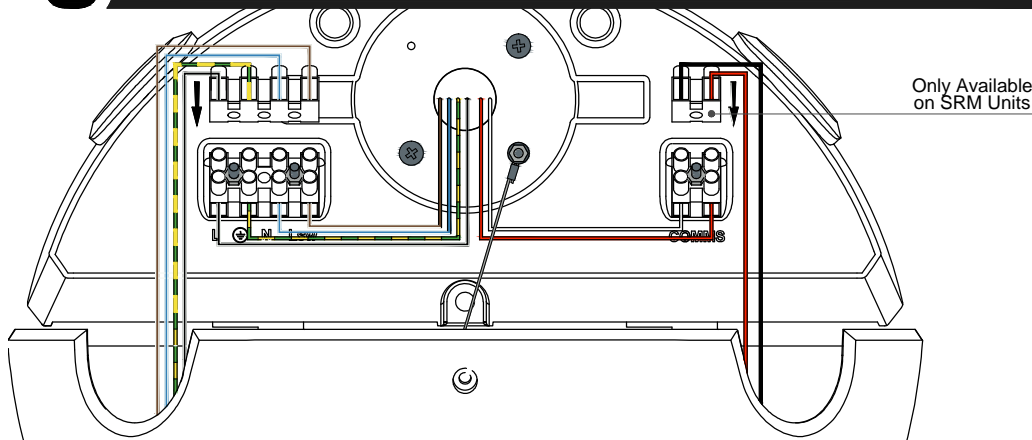With the front casting back on the hinges clip the check strap (**#1**) onto the gear tray as shown in **fig 2**.

Move onto **Step 9**.

1

fig 2.

9) Reconnect Power Cables

Only Available on SRM Units

9. With the front casting now on the hinges and secured using the check strap, reconnect the power cables from the front casting by plugging the connector blocks back into the mounting plate.
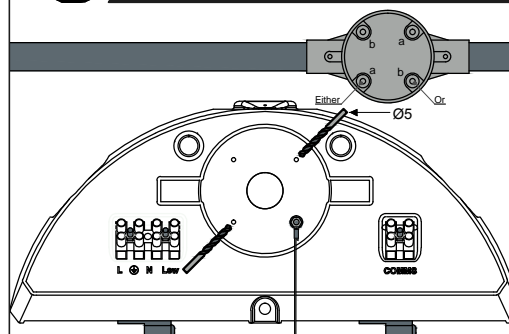Comms Cable only available on SRM or DALI Units only. See **Step 7** for more information.

Move onto S**tep 10**.

3) Mounting Plate Fixing Holes

Pick option **a.** or **b.** to suit your fixing requirements.

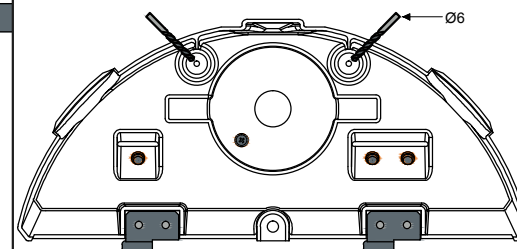### a) Conduit Box Mounted

Either   Ø5   Or

3a. Check the mounting holes on the conduit box and drill out the appropriate holes on the castings using a Ø5mm Drill Bit with the aid of the dimples provided.

NOTE: Double check before drilling the holes. Drilling out the wrong holes could severely affect the IP65 rating of the fitting.

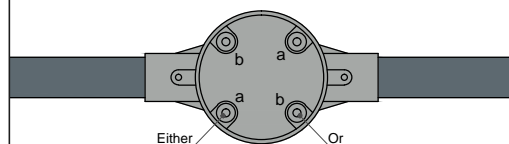More onto **Step 4a**.

b) Wall Mounted

Ø6

3b. Look at the back of the Mounting Plate and drill out the wall fixing holes with a Ø6mm Drill bit using the aid of the dimples provided.

More onto **Step 4b**.

4) Drill Fixing Holes for Mounting Plate

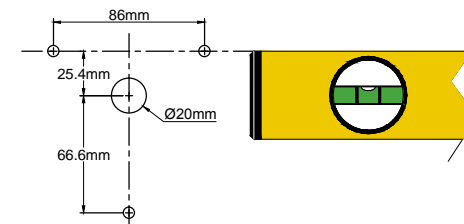Pick option **a.** or **b.** to suit your fixing requirements.

a) Conduit Box Mounted

b   a
a   b
Either   Or

4a. For Conduit Box Mounting use the existing threaded holes as shown above. Choose either **a** or **b**.

Move to **Step 5a**.

b) Wall Mounted

86mm
25.4mm
Ø20mm
66.6mm

4b. Using the template printed on the rear of the fitting kit check list ensuring that the 2 Holes at the top are horizontal using a spirit level.
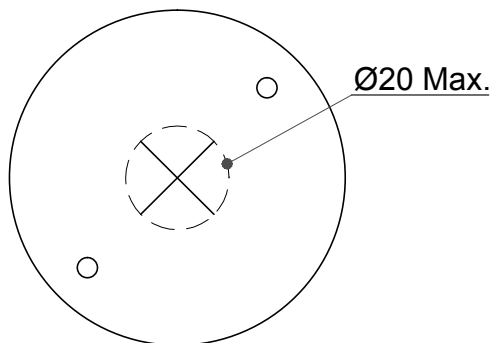Drill Appropriate holes for fixings and cables. Remember to pass cables through Ø20 holes before fixing plate to wall.

Move onto **Step 5b**.
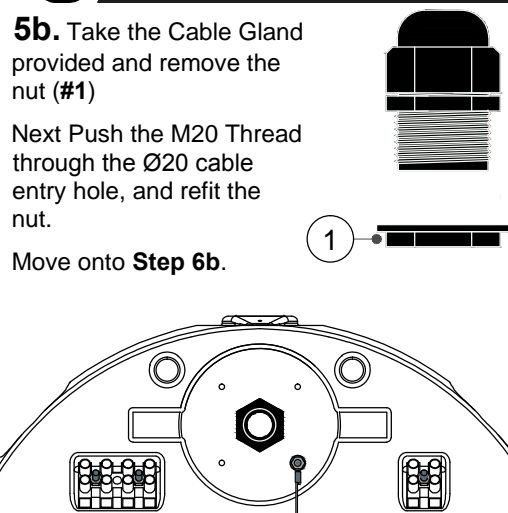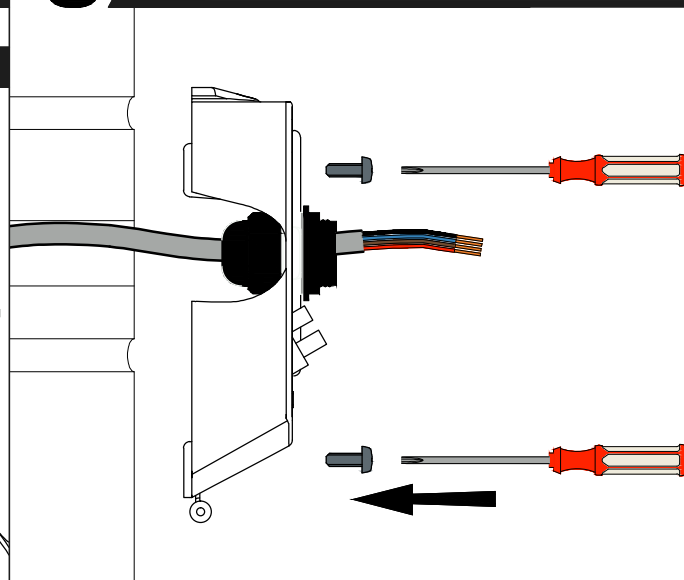
6b. With the fixing holes now drilled into the wall begin fixing the mounting plate. Take the power cables thread through the Ø20mm cable gland on the casting.
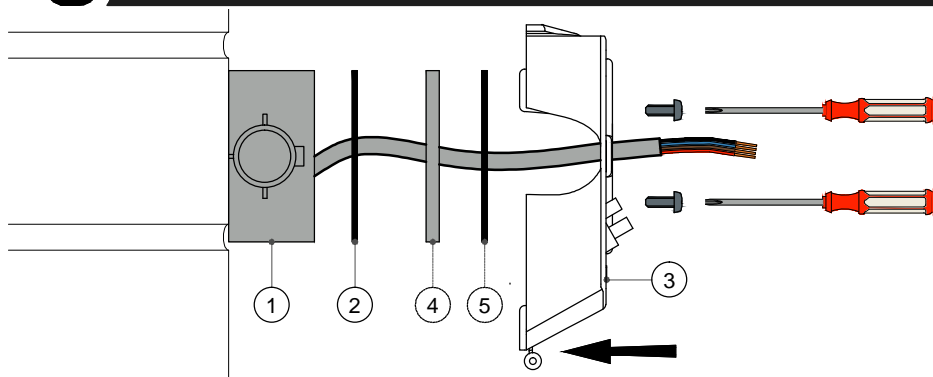
Once the cables are through use appropriate wall fixings to ensure a secure fixing to the wall.

Move onto **Step 7**.

7   Wiring Detail for Mounting Plate

Wire Key

▬	= Black
▬	= Brown
▬	= Blue
▬	= Green/Yellow
▭	= Coms 1 **(where Fitted)**
▬	= Coms 2

L   ⏚   N   Lsw

15 Max.

COMMS

Optional Communications Bus for SRM & DALI Units
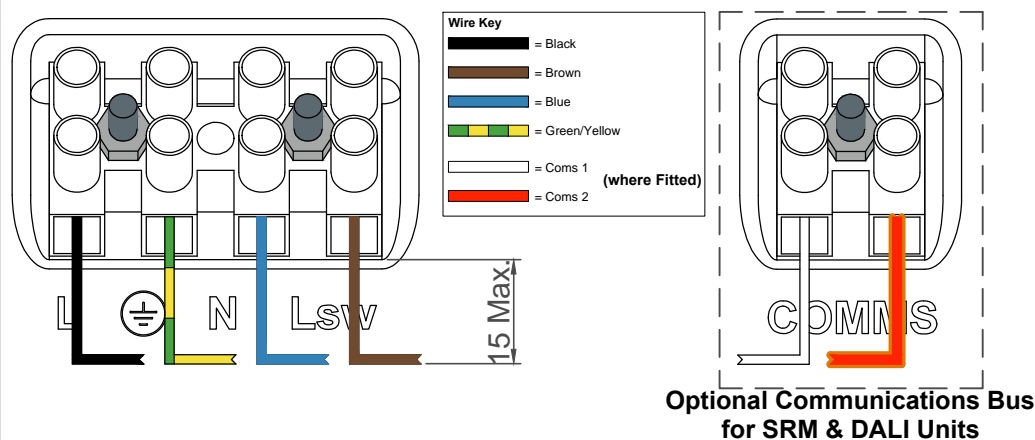
7. Wire the connector block as per the guides on the casting. In case of maintained operation the switched live must be connected to Lsw terminal. Note the switched live and the unswitched live must originate from the same phase.

NOTE: Ensure that the cables are no more than 15mm away from the bottom edge of the connector block. This is to prevent the cables interfering with the foam seal. Comms connector only applicable to SRM or DALI units, see back of instructions for information.

Move onto **Step 8**.