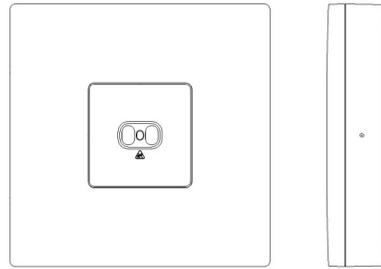


# Installation and Operating Instructions for LXD Surface Emergency Downlight



## MOUNTING & CABLE ENTRY

Determine the required position of the luminaire from the photometric design. The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.35m is not expected.

Take unit out of the packaging and remove the two shroud retainer screws (Fig.1) and put in a safe place for reassembly. Remove the shroud by rotating on its hinge and sliding off.

Drill out the required fixing points and use suitable fixing screws (Fig.2).

This unit has two M20 conduit entry points on opposite ends and a single entry on the back. Drill out the required cable entry points (Fig.3) using a suitable cutter and seal the cable entry using suitable cable glands.

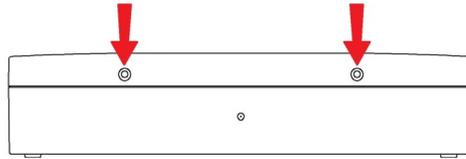


Fig.1

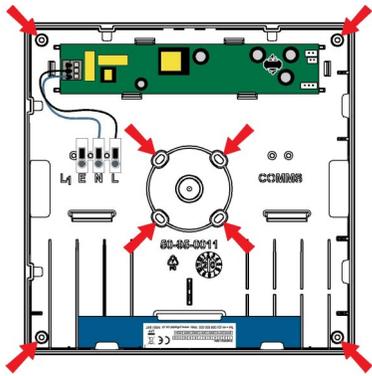


Fig.2

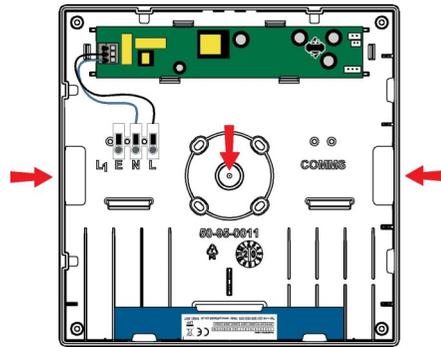


Fig.3

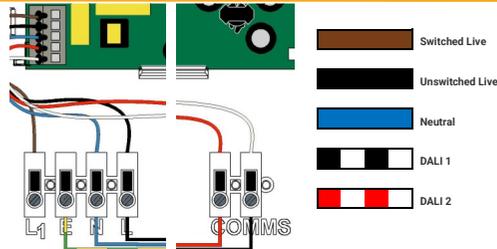
## WIRING CONNECTION DETAIL

This luminaire provides reinforced insulation between mains terminals and control terminals, and can operate in Non-Maintained mode if the Switch Live is not connected on DALI & Wireless models.

**Note:** Basic & Self-Testing versions are Non-Maintained product and Switch Live connection will become an Earth termination point. This product is double insulated and does not need to be Earthed

Connect a supply using 1.0mm<sup>2</sup> min. PVC Insulated Cable or PVC Sheathed cables in accordance with BS EN 6004 and BS EN 50525-2-31 or similar as per the label guides. Unswitched Live feed should be permanent, originating from the same supply as mains lighting in the same area.

**Note:** DALI Versions Only. DALI Communications bus must be wired in 300/500 Volt rated or better, double insulated cable such as single core or multi core cables in accordance with BS EN 6004 to provide reinforced insulation. Min. conductor cross sectional area shall be 1.0mm<sup>2</sup> and the max. cable length between the central supervision unit must be no greater than 300 metres.



## LENS DIRECTION

The luminaire has two lens variants, Open Area and Corridor, identified from the label on the side of the unit (Fig 4.) An Open Area Lens evenly distributes the light. The Corridor Lens distributes the light in only two directions (Fig 5.) The shroud can be removed and rotated 90° so the output direction of a corridor fitting suits the cable entry point if required. (Fig 6.)

X	0	180
INPUT VOLTAGE	220 - 240V 50 - 60 Hz	LAMP TYPE LED
MAX. INPUT POWER	2W	IP RATING IP20

**LXDS-2-3-C-NM**  
LXD SURFACE EMERGENCY DOWNLIGHT 2 CELL  
3 HOUR CORRIDOR NON-MAINTAINED BASIC

UK CA  
EL CE  
850 LFP  
IP20  
10-30°C  
0.5-1.5m  
4-8mm  
Add: NR21 8NT Tel: +44 (0)3300 539 339 Web: www.luxbox.co.uk

Fig.4

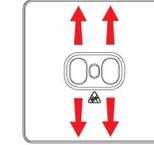


Fig.5

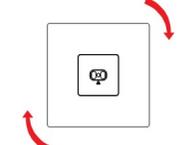
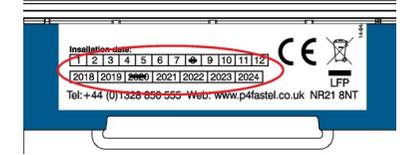


Fig.6

## WIRING DETAIL – BATTERY

The date of commissioning must be recorded onto the battery label. This is the responsibility of the installer and may invalidate your warranty if not completed correctly.

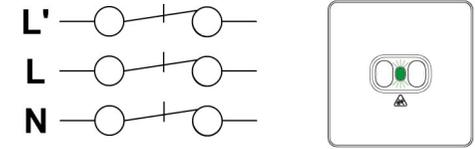
The battery must be replaced when then the luminaire fails to meet its rated duration during testing. The battery in this unit shall only be replaced by the manufacturer or their service agent or a similar qualified person.



## APPLY MAINS SUPPLY

Apply mains supply to the luminaire. For Basic versions the indicator will show continuous green. For Self-Testing, DALI & Wireless versions the indicator will show a flashing green. The LED will illuminate if the Switch Live supply is connected and switched on.

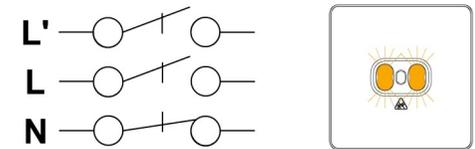
**Note:** Basic & Self-Testing versions are Non-Maintained product and the LED will only illuminate in Emergency Operation.



## TEST EMERGENCY SUPPLY

Briefly fail the supply to illuminate the LED array from the internal battery. The indicator LED will be extinguished.

**Note:** If the battery has not been charged for an extended period the luminaire may only briefly or fail to operate until the battery is charged.



## RECONNECT MAINS SUPPLY

Reconnect the unswitched supply to restart battery charging, indicated by the green indicator LED.

## OPERATING INSTRUCTIONS – RECESSED EMERGENCY DOWNLIGHT

- Luminaires should only be installed by suitably qualified personnel.
- Installation should be carried out in accordance with the requirements of BS 7671, BS 5266 Pt1, BS EN 1838 and BS EN 50172.
- Before installing, connecting or servicing these luminaires, isolate the mains supply to which they are to be connected.
- To comply with the requirements of BS EN 50172, it is necessary to record the indicator LED status.

**Note:** Self-Testing and DALI versions are fully self-testing emergency luminaires and do not require a key switch testing facility.

## TECHNICAL SPECIFICATION

Mains Input Voltage	220V – 240Vac – 50/60Hz
Max. Supply Wattage (W)	5W
Mode of Operation	Non-Maintained / Maintained
Light Sources	LED ONLY
Changeover Time Mains – Emergency	<0.5s
Functionality Test (Self-Test)	Weekly
Duration Test (Self-Test)	Annually
Emergency Duration	3 Hours
Battery Recharge Time	24 Hours for Full Duration
Electrical Protection Class	II
Ingress Protection Rating	IP20
Housing Material	Self-Extinguishing Polycarbonate
Fire Rating	BS EN 60695-2-11 – 850°C Glow Wire Tested
Weight	250 grams
Ambient Temperature Range ta	+5°C to +50°C (Suitable for indoor use only)

Lux Box Lighting Technology Limited  
1 Wymans Way, Fakenham, Norfolk, NR21 8NT  
T: 03300 539 339 E: sales@luxbox.co.uk W: luxbox.co.uk