

LXDS – SURFACE EMERGENCY DOWNLIGHT



The LXDS is a surface mounted self-contained emergency luminaire. Incorporating LiFePO₄ batteries and consisting of dual power-LEDs and status indicator powered by an emergency lighting driver. Available to operate in maintained or non-maintained modes. Each unit is compliant with BS EN 60598-1 and BS EN 60598-2-22.

Available with either corridor or open area lenses.

The automatic self-testing system incorporated in our Self-test, DALI and Wireless products are fully compliant to the requirements of BS EN 50172.

KEY FEATURES AND BENEFITS

- > Basic, Self-test, DALI and Wireless communication options
- > Suitable for emergency escape lighting and open area lighting
- > 3-hour emergency operating time (variant upon request)
- > Constant power output in emergency mode
- > Specific charging regime for LiFePO₄ battery technology
- > Deep discharge protection
- > 5-year warranty on Self-Test, DALI and Wireless products
- > Specific testing regime for Self-Test, DALI and Wireless products

TECHNICAL SPECIFICATIONS

| | |
|--|---|
| Input | 220V-240V _{AC} |
| Mains input frequency | 50-60Hz |
| Power consumption / power input standby | Max. 5W / 7VA |
| Power output in emergency mode | 3W |
| Changeover time mains – emergency | <0.5s |
| Ambient temperature range <i>ta</i> | 5°C to +50°C |
| Unit max. case temperature <i>tc</i> | 60°C |
| Safety class | II |
| Ingress protection class | IP20 |
| Battery recharge period for rated duration | 24 Hours |
| Emergency duration | 3 Hours |
| Functionality test | Weekly (See '10-93-0100 SELF-TESTING OF CONTROL GEAR & LUMINAIRES') |
| Duration test | Annually |
| LED colour | 6000K |
| CRI (Ra) | 80 |
| Weight | 0.25Kg |
| Hole cut-out diameter | 50mm |
| Enclosure material | Self-Extinguishing Polycarbonate |

LXDS PRODUCTS

| Luminaire Type | Part No. | Description | Emergency Duration | P emergency (W) | Lumen output in emergency mode | Max. Supply Wattage (W) | Compatible Batteries |
|----------------|-------------------|--|--------------------|-----------------|--------------------------------|-------------------------|----------------------|
| BASIC | LXDS-2-3-C-NM | LXD SURFACE 2 CELL 3 HOUR CORRIDOR NON-MAINTAINED | 3Hr | 3.0W | 194Lm | 5.0W | 14-12-0003 |
| | LXDS-2-3-O-NM | LXD SURFACE 2 CELL 3HOUR OPEN AREA NON-MAINTAINED | 3Hr | 3.0W | 196Lm | 5.0W | 14-12-0003 |
| DALI | LXDS-DALI-2-3-C-M | LXD SURFACE 2 CELL 3 HOUR CORRIDOR MAINTAINED DALI | 3Hr | 3.0W | 194Lm | 8.0W | 14-12-0003 |
| | LXDS-DALI-2-3-O-M | LXD SURFACE 2 CELL 3 HOUR OPEN AREA MAINTAINED DALI | 3Hr | 3.0W | 196Lm | 8.0W | 14-12-0003 |
| SELF-TEST | LXDS-ST-2-3-C-NM | LXD SURFACE 2 CELL 3 HOUR CORRIDOR NON-MAINTAINED SELF-TEST | 3Hr | 3.0W | 194Lm | 5.0W | 14-12-0003 |
| | LXDS-ST-2-3-O-NM | LXD SURFACE 2 CELL 3 HOUR OPEN AREA NON-MAINTAINED SELF-TEST | 3Hr | 3.0W | 196Lm | 5.0W | 14-12-0003 |
| WIRELESS | LXDS-WM-2-3-C-NM | LXD SURFACE 2 CELL 3 HOUR CORRIDOR MAINTAINED WIRELESS MESH | 3Hr | 3.0W | 194Lm | 8.0W | 14-12-0003 |
| | LXDS-WM-2-3-O-NM | LXD SURFACE 2 CELL 3 HOUR OPEN AREA MAINTAINED WIRELESS MESH | 3Hr | 3.0W | 196Lm | 8.0W | 14-12-0003 |

BATTERIES TECHNICAL DATA

| Part No. | Chemistry | No. of Cells and Format | Cell Type | Nominal Voltage | Capacity |
|------------|-----------|-------------------------|-----------|-----------------|----------|
| 14-12-0003 | LiFePO4 | 2-Cell Stick | 18650 | 3.2V | 3.0Ah |

ACCESSORIES

| Part No. | Description |
|-----------|----------------------|
| LXDS-IP54 | LXDS GASKET KIT IP54 |

STANDARDS AND APPROVALS

- > BS EN 55015
- > BS EN 61000-3-2
- > BS EN 61000-3-3
- > BS EN 61347-1
- > BS EN 61347-2-7
- > BS EN 61347-2-1
- > BS EN 61547
- > BS EN 62034
- > BS EN 62384
- > BS EN 60598-2-22

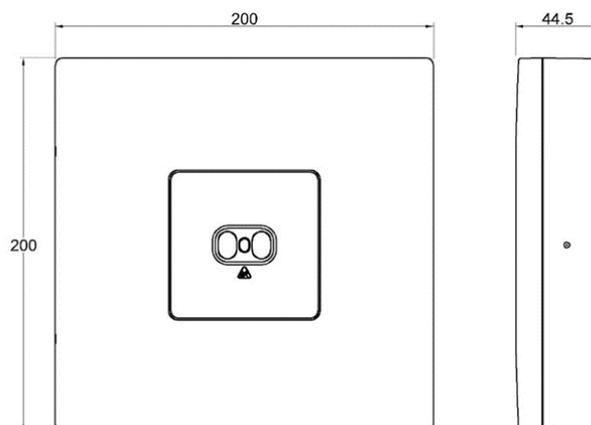


850°C



End of Life— At the end of service life there is an obligation upon the user to ensure our products are professionally collected, stored, transported, and recycled in accordance with the UK Waste Electrical and Electronic Equipment (WEEE) regulations 2018 amendments (open scope) and EU Directive 2012/19/EU on waste of electric and electronic equipment (WEEE). We fulfil our obligations and responsibilities to facilitate recycling of its products in accordance with current legislation through membership of LUMICOM, a producer compliance scheme.

DIMENSIONS



STATUS INDICATOR

Visual status indicator for Basic models

-  **LED Green:** No fault / normal state.
-  **LED Extinguished:** Emergency operation in progress / battery fully discharged.

Visual status indicator for Self Test models

-  **LED Intermittently Flashing Green:** commissioning/battery regeneration after initial connection (7s on, 1s off).
-  **LED Green:** No fault / normal state.
-  **LED Continuous Flashing Red:** battery fault—either insufficient battery capacity or interrupted connection. The fault indication is reset once the fault is cleared.
-  **LED Intermittently Flashing Red:** Luminaire fault
-  **LED Flashing Green / Momentary Red:** Duration test interrupted, postponed or self- testing failure.
-  **LED Extinguished:** If the LED is still off after more than 5 minutes of switching on the mains, then the mains or the unit is faulty

Visual status indicator for DALI models

-  **LED Intermittently Flashing Green:** commissioning/battery regeneration after initial connection. Function test (fast flash 100ms on/off) or duration test (slow flash 1s on/off) (7s on, 1s off).
-  **LED Regularly Flashing Green:** inhibit
-  **LED Green:** No fault / normal state.
-  **LED Continuous Flashing Red:** battery fault (fast flash 100ms on/off) or test failed (slow flash 1s on/off). The fault indication is reset once the fault is cleared.
-  **LED Red:** Luminaire fault
-  **LED Flashing Green / Momentary Red:** Duration test interrupted, postponed or self- testing failure.
-  **LED Alternating Flashing Red/Green :** Identification switched on to locate individual unit address
-  **LED Extinguished:** If the LED is still off after more than 5 minutes of switching on the mains, then the mains or the unit is faulty

Visual status indicator for Wireless models

-  **Intermittently Flashing Green** – Commissioning/battery regeneration after initial connection. Function test (fast flash; 100ms on/off) or duration test (slow flash; 1s on/off) (7s on, 1s off).
-  **Continuous Flashing Green** – Battery charging after discharging or after powering up.
-  **Solid Green** – No fault / normal state.
-  **Continuous Flashing Red** – Battery fault. Insufficient battery capacity or interrupted connection. The fault indication is reset once the fault is cleared.
-  **Intermittently Flashing Red** – Lamp fault. Please note that the fault is not indicated (or reset) immediately when it occurs (or is cleared), but after the next self-test.
-  **Flashing Green / Momentary Red** – Duration test interrupted, postponed.
-  **Alternating Flashing Red/Green** – Identification switched on to locate individual unit address.
-  **LED Extinguished** - If the LED is still off after more than 5 minutes of switching on the mains, then the mains or the unit is faulty.

CONTACT US

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