Emergency Lighting from Advanced
A Visibly Better Testing System

LuxIntelligent is the latest version of Advanced’s legendary emergency lighting test system.

It makes emergency light testing and compliance easier and more cost effective on sites large and small, and comes with optional cloud-driven, mobile and desktop monitoring and management.

LuxIntelligent makes life easy

Easy installation, management, testing and monitoring of emergency lighting to BS 5266-1, EN 50172 and beyond.

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One Panel – Many Options

For any type of installation, all you need is our one panel. A single panel can support up to 996 devices and be locally networked with up to 200 panels or an unlimited number via our LuxCloud service.

Our system can also interchangeably work as a hybrid in any of these scenarios and offers a huge amount of flexibility and scalability that will suit almost any requirement.

Retrofit
Do you have pre-existing emergency luminaires? No problem – our intelligent PLUs can be retrofitted to almost any existing luminaire. Just by adding our PLUs to your devices and a simple data cable, your system can become a centralised, automatic testing system without having to replace your existing devices.

Conversion
If you don’t want the hassle of converting devices yourself, simply send them to us and we can convert your lights for you. Not only will we ensure your devices are returned to you ready to plug into your new system, we will also take over the warranty of the device for your peace of mind.

Ultra-Low Voltage
EasySafe is our next generation of emergency luminaries that require no mains power connection. They are fast to install and maintain, using a first-fix base and a ‘twist & click’ install method. EasySafe devices draw their power directly from the data cable and are perfect for anyone who needs minimal disruption during installation and maintenance, whilst also providing an energy-saving solution.

Standalone Devices
We have a range of high-quality standalone LED luminaires and exit signs that come pre-installed with our PLU devices. These reliable devices are made to order in our world-class UK manufacturing site and are ready to be installed straight out of the box.

Central Battery/Static Inverters
Our system works well alongside existing or new central battery or static inverter systems. Our PLUs and panel can monitor luminaires connected to either system type and provide centralised testing for all your devices as well as interlinking with central batteries via our addressable input/output unit or our 230V hold-off relays.

System Advantages

LuxIntelligent makes emergency light testing, management and compliance easy and cost effective.

Complete trust, easy management
LuxIntelligent is an analogue addressable system that ensures all your emergency lights work and are regularly tested to standards.
It does all this automatically with no intervention or engineer time required. Panels and systems can be monitored and maintenance managed on mobile phone, tablet or remote computer.

Unlimited scaleable system
LuxIntelligent can be networked in two ways. A cabled network can support 200 panels, or with our ‘cable free’ cloud networking, an unlimited number of panels, located anywhere in the world, can be linked and managed remotely.
You can cover one corridor or multiple sites quickly and easily. The system can use your existing cabling and luminaires, keeping costs low while adding our unbeatable performance, monitoring and ease of use.
Worldwide monitoring in your pocket

The LuxIntelligent cloud stores your test data securely and gives you live status, advisories, reports and monitoring on your smartphone, tablet or computer. You can monitor all your sites, anywhere in the world down to device level, from one account and share the system elements and reports you want with engineers or maintenance staff.

More monitored lights

Each LuxIntelligent panel has up to four easily-wired lighting loops supporting up to 249 luminaires.

That's an unbeatable 996 per panel and 199,200 per standard network or an unlimited number with our cloud networking. It’s easy to add panels and lights to your system as your site or requirement grows.

Convert your existing luminaires

LuxIntelligent allows you to keep your existing wiring and luminaires and convert them to LuxIntelligent’s addressable protocol by adding our modules.

LuxIntelligent is suitable for most third-party lights, and Advanced is ICIEL 1004 approved to carry out conversions.

Direct light level and voltage monitoring

LuxIntelligent modules ensure your lights are functioning correctly using fibre optics for direct light measurement and high-performance electronics to monitor appropriate voltage levels.

Live compliance and monitoring – 3 ways

- On-board keypad and LCD screen for easy navigation, programming and maintenance
- Comprehensive PC management tool can be connected to panel directly via RS232. Also modem or GSM connections and LAN via serial to ethernet connectors
- Cloud service and LuxIntelligent mobile, tablet and desktop apps giving live status and current and historical reports, complete system data, faults and advisories

Making the Switch from Fluorescent to LED Emergency Lighting

Many emergency lighting installations have been in place for ten years or more and include old technology that can add thousands of pounds of unnecessary expense to a building’s overall running costs.

Traditional fluorescent lighting consumes significantly more electricity than LED technology, while the typical lifespan of fluorescent lights is between 15-30% shorter than that of identical LED solutions, resulting in a greater number of bulb failures and replacements leading to higher overall maintenance costs.

Switching to LuxIntelligent’s low-energy LED emergency lighting is quick, simple, and will on average deliver 20% energy efficiency savings compared with fluorescent alternatives. The versatile range of LuxIntelligent luminaires and exit signs can be integrated onto existing cabling and/or used alongside the LuxIntelligent emergency light testing panel to form an intelligent emergency lighting system.

LED lights

- High life expectancy: LED-based products have a predicted life expectancy of 50,000 to 70,000 hours at which point the luminaire may need to be replaced
- Cost effective: Lower power consumption than fluorescent lights
- Battery backup: Require smaller batteries to operate in an emergency

Fluorescent lights

- Lower life expectancy: Life expectancy of 7,000 hours and even fewer if used in combined emergency fittings
- Higher power consumption: Typically require more power and are less efficient
- Battery backup: Require larger batteries to operate in emergency

A greener solution: A 100 luminaire system

This graph shows the typical energy consumption and CO₂ emissions of an emergency lighting system with an installation of 100 luminaires. It compares traditional mains-powered fluorescent technology against a mains-powered LED equivalent on an annual basis.
The High-Performance Lighting Test Panel

LuxIntelligent is the emergency lighting test system that built a global business. You can’t choose a better performing or more reliable panel.

Technical features:

- Analogue addressable
- Up to four loops per panel
- Up to 249 luminaires per loop
- Panel easily networked into 200 node networks (standard networking). Cloud networking uses existing LAN, wired and wireless networks and allows an unlimited number of panels to be networked with no dedicated cabling between panels
- Easily installed often on existing wiring
- Compatible with most third-party luminaires, including most modern LED lights
- Easy conversion of existing lights with our addressable modules
- Available with complete range of addressable lights
- 5 Amp power supply
- Can work with and monitor central battery and static inverter systems
- LCD interface for on-board programming and management
- Optional on-board printer
- Autolearn and loop detection for trouble-free installation and configuration
- PC management software
- 5 Amp power supply
- Can work with and monitor central battery and static inverter systems
- LCD interface for on-board programming and management
- Optional on-board printer
- Autolearn and loop detection for trouble-free installation and configuration
- PC management software
- Available with complete range of addressable lights
- Easily installed often on existing wiring
- Compatible with most third-party luminaires, including most modern LED lights
- Easy conversion of existing lights with our addressable modules
- 5 Amp power supply

Commissioning made simple

Our updated commissioning tool is easy to use and enables you to build both simple and complex emergency lighting systems. However complex your system requirements, you can pre-plan the entire system in advance from the comfort of your home, saving valuable time when you get on site.

Pick and choose exactly what devices go into test and when by easily amending their automatic test regimes — perfect for ensuring testing is done at a time suitable to your site.

Loop/Network Wiring Specification

LuxIntelligent requires data cabling to be suitable for the nature and size of the installation. The lower quantity of lights and shorter loops results in a narrower (and less expensive) gauge of cable being required.

Radial vs loop (ring) circuit wiring

Regarding the wiring circuit used to connect devices to the LuxIntelligent panel, it is possible but not recommended to use a radial circuit. Radial circuits severely hinder identification of earth faults, continuity or short circuit issues. It is highly recommended that loop (ring) circuits are always used.

Signalling circuits

All cables are Belden twisted pair (or equivalent). Please note:

- 8762, 8760 & 8719 types are screened, twisted pair and are recommended where a high level of high frequency electrical noise is prevalent in the installation.
- 8205, 8461, 8471 types are unscreened, twisted pair and are suitable for use in environments where there is no risk of contamination by high frequency asymmetrical electrical noise.
- Where the installation requires cables with low smoke and fume emissions, please use Belden LSF cables, types 8762NH, 8760NH, 8719NH, 8205NH, 8461NH & 8471NH.

The table below quotes the recommended maximum runs for the specified load conditions. All distances are quoted in metres and the maximum circuit length should be no greater than 1500m unless stated.

<table>
<thead>
<tr>
<th>Cable</th>
<th>Cable size</th>
<th>Voltage rating</th>
<th>Conductor Ø (per Pr)</th>
<th>Maximum Cable Run (in metres per installed number of PLU modules)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AWG</td>
<td>mm²</td>
<td></td>
<td>≤ 50</td>
</tr>
<tr>
<td>PLU (LXP) Radial / Loop</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8762 / 8205</td>
<td>20</td>
<td>0.5</td>
<td>300</td>
<td>71.6Ω/km</td>
</tr>
<tr>
<td>8760 / 8461</td>
<td>18</td>
<td>0.8</td>
<td>300</td>
<td>45.4Ω/km</td>
</tr>
<tr>
<td>8719 / 8471</td>
<td>16</td>
<td>1.3</td>
<td>600/300</td>
<td>28.6Ω/km</td>
</tr>
<tr>
<td>8720 / 8473</td>
<td>14</td>
<td>2.0</td>
<td>600/300</td>
<td>19.0Ω/km</td>
</tr>
<tr>
<td>I/O (LXP-I10) Radial / Loop</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8762 / 8205</td>
<td>20</td>
<td>0.5</td>
<td>300</td>
<td>71.6Ω/km</td>
</tr>
<tr>
<td>8760 / 8461</td>
<td>18</td>
<td>0.8</td>
<td>300</td>
<td>45.4Ω/km</td>
</tr>
<tr>
<td>8719 / 8471</td>
<td>16</td>
<td>1.3</td>
<td>600/300</td>
<td>28.6Ω/km</td>
</tr>
<tr>
<td>8720 / 8473</td>
<td>14</td>
<td>2.0</td>
<td>600/300</td>
<td>19.0Ω/km</td>
</tr>
</tbody>
</table>

TOP TIP

In some instances where a radial circuit is suitable, such as running a radial down a stairwell, it is important to ensure that any drawings as fitted are clearly marked as to where the radial originates.
Complete 24/7 Monitoring and Testing

LuxIntelligent gives users complete confidence that systems are tested with no intervention or engineer time required.

LuxIntelligent’s optional cloud storage, mobile and desktop apps give you unprecedented oversight and confidence in system monitoring and compliance. They make it easier and more cost effective to manage a single panel or an entire portfolio of buildings and sites.

All this is done automatically, with no intervention or engineer time required. Panels and systems can be monitored and maintenance managed on mobile phone, tablet or remote computer.

PC & LuxIntelligent cloud and mobile app:
- Monitoring of all sites in portfolio, anywhere in the world
- Easily add/remove sites, networks or panels to your portfolio
- Share specific sites, networks or panels with colleagues or maintenance partners
- Live system status from site to device, showing faults, advisories, test and maintenance reports
- Easily interrogate entire system from site to device
- ‘Any level’ test and maintenance report generation from site to device level
- Data safely stored in the cloud allowing historical reports to be instantly generated based on actual test data
- LuxIntelligent cloud and apps require serial-ip converter supplied separately and LuxIntelligent cloud subscription

Example Cloud-Monitored Portfolio

LuxIntelligent allows you to network your panels via cable (200 panels) or your local LAN or wireless network and the cloud (unlimited) completely securely.

All panels can be monitored with your phone, tablet or desktop app allowing you to manage panels and sites all over the world from one remote location. This offers huge savings on maintenance and management times.

To interface with the cloud, LuxIntelligent uses a serial to LAN converter and PC software (not shown).
Cloud Naming Structure

Example one

When you have a large complex site, Lux Cloud makes structuring and organisation easy.

From separating areas by different geographical locations, to organising areas by departments or specific buildings, no matter how you choose to structure your site, you will always be able to drill down to the smallest of details and check the status of individual devices.

Example two

Lux Cloud is perfect for remotely monitoring multiple sites.

You can easily keep tabs on separate sites whilst maintaining the level of detail needed to ensure the site is compliant. Maintenance reports can be generated that are site specific, so forwarding on required rectification works to the right people has never been easier.
The LuxIntelligent addressable emergency lighting control system is designed to provide a simple yet powerful, reliable and cost-effective maintenance solution for testing your emergency lights and maintaining results data for inspection and audit purposes.

Emergency lighting is a requirement for non-domestic buildings and is embodied in British and European legislation. Employers, building owners and occupiers have a legal responsibility to test and maintain their emergency systems to the standards required by the Code of Practice for Emergency Lighting of Premises BS 5266-1 and also ENS0172, Emergency Escape Lighting Systems.

It supports both maintained, non-maintained and slave luminaires in either self-contained, central battery or static inverter systems. It supports all of the Advanced LuxIntelligent range of fittings. On top of this, LuxIntelligent modules can be added to almost any luminaires to allow them to fully function on the LuxIntelligent system.

The control panel has a dynamic event log of 1000 events as well as a separate log for recording test results. Records of all automatic (and manual) tests are generated and can be downloaded by connecting to a computer and using the appropriate LuxIntelligent logger tool. The data is then transferred to a database on a PC for subsequent analysis listing and printing. Once the data is there, there is also the opportunity of transferring this information up to the LuxIntelligent cloud using the LuxIntelligent sync tool. Through the LuxIntelligent app it becomes very easy to share and use this information.

The LuxIntelligent addressable emergency lighting control system can work with a huge range of luminaires, from pre-installed retrofit options and ICEL 1004 conversions to self-contained standalone LED luminaires and Dynamic Safety Sign Systems.

Key Features

- Each panel can support 996 luminaires
- Advanced graphical LCD user interface
- Loop-powered communications
- Dedicated RS232 port supporting various modes of access
- 5 Amp power supply and charger to EN54-4
- Fit and forget panel, using your My LuxIntelligent account to manage your emergency lighting
- 32 characters for zone text and 26 for each luminaire
- Networks can contain up to 200 panels
- 400 individual tests can be spread across up to 50 test groups
- Up to 200 zones available across each panel
- 1000 event and diagnostic log
- 24/7 monitoring, including cloud service and mobile app

Specification

**Lx-9400**

<table>
<thead>
<tr>
<th>Display</th>
<th>Backlit 260 by 64 graphical LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls</td>
<td>Alpha-numeric keypad, navigation keys, mute and reset</td>
</tr>
<tr>
<td>Enclosure/colour</td>
<td>Steel IP30/RAL 7035</td>
</tr>
<tr>
<td>Dimensions (H<em>W</em>D) mm</td>
<td>385 * 450 * 125</td>
</tr>
<tr>
<td>Weight</td>
<td>8.6kg</td>
</tr>
<tr>
<td>Temperature</td>
<td>-5°C to 40°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>95% Max</td>
</tr>
<tr>
<td>Cable entries (20mm knockouts)</td>
<td>18 top, 9 top rear, 2 bottom</td>
</tr>
<tr>
<td>Mains supply</td>
<td>220-240V, +10%, -15%, 47-63 Hz AC, 1A (Max)</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>24V 4Ah (Min), 24V 12Ah (Max) internal</td>
</tr>
<tr>
<td>Charging current</td>
<td>2.4A, temperature compensated</td>
</tr>
<tr>
<td>Power supply</td>
<td>Separate 24Vdc, 5A universal input, switched mode</td>
</tr>
<tr>
<td>Number of loops</td>
<td>1 to 4</td>
</tr>
<tr>
<td>Devices per loop (total)</td>
<td>249</td>
</tr>
<tr>
<td>Protocols</td>
<td>PuLsE</td>
</tr>
<tr>
<td>Auxiliary supply output</td>
<td>24V dc , 500mA</td>
</tr>
<tr>
<td>Loop current</td>
<td>500mA</td>
</tr>
<tr>
<td>Event log</td>
<td>1000 event and diagnostic</td>
</tr>
<tr>
<td>Number of zones</td>
<td>200 maximum, across 4 loops (1000 when networked)</td>
</tr>
<tr>
<td>Number of test groups</td>
<td>50</td>
</tr>
<tr>
<td>Number of scheduled tests</td>
<td>400</td>
</tr>
<tr>
<td>On-board relays</td>
<td>2 * 1A 30V AC/DC (fault)</td>
</tr>
<tr>
<td>Serial port</td>
<td>1 * RS232 on board for PC/modem/printer</td>
</tr>
<tr>
<td>Integral modem (optional)</td>
<td>For connection to logging PC</td>
</tr>
</tbody>
</table>

For part numbers and order options, please contact us directly.
The LuxIntelligent Ethernet, WiFi or 4G Router permits remote interaction and monitoring of the LuxIntelligent emergency lighting test panel. It is an economical and easy way to monitor your emergency lighting system from anywhere across the installation, using its local area network via an ethernet port or WiFi connection, or anywhere in the world via the 4G connectivity option. There is no need to physically network panels across an installation. Simply tag each panel onto the site’s internal network or connect externally via a mobile SIM card. Any number of computers on the network can download test data and access the full LuxIntelligent Cloud. The Router can be installed next to or near any panel, with various antennas and accessories included to ensure connectivity. It is supplied with the serial interface lead for connecting to the panel. All that is required is a data connection to the closest local network hub or fixed IP mobile SIM card. The device is easily configured using a standard Windows® tools - simply allocate it an IP address and associated gateway information. The serial communications are then set up to match those of the panel and full access to the panel is available on the network. Controls can be configured so that only known IP addresses can access the device and password protection can be set. Full technical support is available to help guide users in the setup and connection of your router via our technical support team.

Key Features
- Allows full use of all LuxIntelligent monitoring features
- Dual Ethernet and choice of RS232 or RS485 port
- Modbus RTU to Modbus TCP Gateway built-in
- Ethernet, WiFi and 4G internet connection options with auto-failover
- Secure, lockable metal enclosure to keep your data connections secure

Specification

**Cellular Interface**
- **Number of antennas**: 1 external antenna (MAIN + AUX)
- **Connector**: SMA-K
- **SIM**: 1 x (3 V & 1.8 V) Standard SIM or eSIM
- **Encryption**: 64/128 AES, TKIP
- **Security**: WEP, WPA, WPA2
- **Frequency bands**: 802.11b/g/n, supports AP & Client modes
- **Data speed**: 2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN
- **Magnet isolation**: 1.5 KV

**Ethernet Interface**
- **Number of ports**: 2 external antennas (MAIN + AUX)
- **Connector**: RP-SMA-K (external antenna)
- **Standards**: 802.11g/h, supports AP & Client modes
- **Frequency bands**: 2.4 GHz
- **Security**: WEP, WPA, WPA2
- **Encryption**: 64/128 AES, TKIP
- **Data speed**: 2 2.5 Mbit, 300 Mbps
- **RF output power (+/-1 dBm)**: 802.11b (19 dBm)
- **802.11g (19 dBm)**
- **802.11n (20 MHz / -88 dBm)**
- **802.11n (40 MHz / -85 dBm)**

**WiFi Interface**
- **Number of antennas**: 1 external antenna
- **Connector**: RP-SMA-K (external antenna)
- **Standards**: 802.11b/g/n/h, supports AP & Client modes
- **Frequency bands**: 2.4 GHz
- **Security**: WEP, WPA, WPA2
- **Encryption**: 64/128 AES, TKIP
- **Data speed**: 2.5 Mbit, 300 Mbps
- **RF output power (+/-1 dBm)**: 802.11b (19 dBm)
- **802.11g (19 dBm)**
- **802.11n (20 MHz / -88 dBm)**
- **802.11n (40 MHz / -85 dBm)**

**Serial Interface**
- **Type**: 1 x RS-232 or 1 x RS-485 (hardware configuration)
- **Connector**: 3-pin 3.5mm female socket
- **Baud rate**: 300bps to 115200bps

**SDK**
- **Supported programming languages**: C, C++, Linux Shell Scripts
- **Flash available for SDK**: 4MB
- **RAM available for SDK**: 64MB

For part numbers and order options, please contact us directly.

1. **Option 1**
   - **Manual view data at the panel**
   - **Connectivity Options**
     - PC software that extracts all test results and current status of lights
     - Presents data in a clear format that demonstrates BS EN 5266 compliance
     - Add comments to any failures/rectification works
     - Generate full summaries for distribution to maintenance teams
     - Virtually connect to a control panel as if stood in front of the panel

2. **Option 2**
   - **PC connection via RS232 to USB cable (Advanced drivers & cable required)**
   - **Connectivity Options**
     - PC software that extracts all test results and current status of lights
     - Presents data in a clear format that demonstrates BS EN 5266 compliance
     - Add comments to any failures/rectification works
     - Generate full summaries for distribution to maintenance teams
     - Virtually connect to a control panel as if stood in front of the panel

3. **Option 3**
   - **LuxIntelligent Ethernet, WiFi or 4G Router**
   - **Connectivity Options**
     - Register with my.luxintelligent.com
     - Download Lux Sync Tool
     - Pulls all data into your cloud account
Pulse light units are a range of addressable modules designed for use with the LuxIntelligent emergency lighting test panel. The modules provide the ability to make a standard emergency luminaire into an addressable luminaire that can be automatically tested and monitored by the LuxIntelligent panel 24 hours a day and 365 days a year.

All the modules are loop powered, which means that even if the local power fails where the luminaires or devices are installed, the panel will still be able to monitor their condition. They do not use any power from any batteries installed with the luminaires.

The LXP-302 modules provide control and monitoring of the luminaire AC mains power, battery condition and lamp status, giving actual battery voltage and light level measurements at the control panel. This device may be used for central battery and static inverter installations. The LXP-302 module can be configured to monitor a luminaire operating as either a maintained or non-maintained luminaire.

The LXP-110 module provides control of a central battery unit, whilst also being able to monitor fault conditions via a dry contact input. It can also be used as an addressable relay to trigger specific groups of lights. The LXP-110 can be configured to monitor a luminaire operating as either a maintained or non-maintained luminaire.

**Retrofit**
Our intelligent PLUs can be retrofitted to almost any existing luminaire.

Just by adding our PLUs to your devices and a simple data cable, your system can become a centralised, automatic testing system without having to replace your existing devices.

**Conversion**
If you don’t want the hassle of converting devices yourself, simply send them to us and we can convert your lights for you. Not only will we ensure your devices are returned to you ready to plug into your new system, we will also take over the warranty of the device for your peace of mind.

### Key Features
- Allows standard emergency luminaire to be used as an addressable luminaire
- Allows the monitoring of critical parameters
- Enables the automatic testing of emergency luminaires
- Fully supports all the features of the Lux Intelligent panels

### Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>LXP-302</th>
<th>LXP-110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H<em>W</em>D)</td>
<td>130<em>42</em>20</td>
<td>130<em>42</em>20</td>
</tr>
<tr>
<td>Fixing centres</td>
<td>118mm</td>
<td>118mm</td>
</tr>
<tr>
<td>Temperature</td>
<td>65°C</td>
<td>65°C</td>
</tr>
<tr>
<td>Terminal size</td>
<td>0.35-2.5mm²</td>
<td>0.35-2.5mm²</td>
</tr>
<tr>
<td>Addresses</td>
<td>1-249</td>
<td>1-249</td>
</tr>
<tr>
<td>Battery range</td>
<td>1.2-12.0V ±2%</td>
<td>N/A</td>
</tr>
<tr>
<td>Relay output</td>
<td>250Vac(125VA)</td>
<td>N/A</td>
</tr>
<tr>
<td>Loop voltage</td>
<td>15-32Vdc</td>
<td>15-32Vdc</td>
</tr>
<tr>
<td>Current (energised)</td>
<td>1.7mA</td>
<td>1.7mA</td>
</tr>
<tr>
<td>Current (on)</td>
<td>4.0mA</td>
<td>2.7mA</td>
</tr>
</tbody>
</table>

### More Information
All pulse light modules communicate over a two-wire communication link. They all have two pairs of terminal chambers to allow loop in and loop out cabling. The LXP-302 module is supplied with the necessary grommets for mounting of the fibre optics.

#### Typical LXP-110 Wiring Diagram

1. Drill a 3.2mm diameter hole through the base plate so the fibre optic will be directly looking at the light source.
2. Insert the grommet so the split body of the grommet is on the side adjacent to the light source.
3. Push the fibre optic cable through the grommet, leaving a minimum of 2mm of fibre protruding through the body of the grommet.

#### Typical LXP-302 Wiring Diagram

For part numbers and order options, please contact us directly.
Light and Luminaire Range

LuxIntelligent can sit on your existing lighting system cabling and use your existing luminaires.

It is one of the few systems that can meet all your emergency lighting needs in one system and will work with standard and specialist lights.

LuxIntelligent modules convert most third-party standard and LED lights into addressable lights that work with the LuxIntelligent panel. Advanced is ICEL 1004 approved and can carry out conversions to the highest of standards.

More info at www.luxintelligent.com

Central Battery and Static Inverter

Our system is compatible with and works well alongside existing or new central battery or static inverter systems.

- For retrofit, our Intelligent PLUs and panel can easily be added to your existing luminaires for either system type. They provide centralised monitoring for all your devices and proof of compliance.
- For new systems or light fittings, we have a range of LuxIntelligent compatible ‘slave’ fittings that do not come with a localised battery back-up but are ready to be connected to the central battery system.
- We can easily integrate the central battery with our intelligent input/output interface to drive a range of different events.
- For static inverter systems, we also have 230V hold-off relays available that ensure any automatic switchover of power is timed correctly to reduce any risk of arcing between out-of-sync phases.

Please note that whilst LuxIntelligent can work alongside and is compatible with these systems, we do not supply any central battery or static inverter system.
The LED-Lite range of recessed luminaires offers a simple method of providing discrete emergency lighting in areas that require a self-contained solution. Available with a symmetrical wide-angle lens or an asymmetrical 'corridor' lens for escape routes or a narrow 20 degree high level beam for highlighting points of emphasis, the luminaire simply requires a permanent 230 Volt supply (and addressable wiring) to provide effective non-maintained emergency lighting with a three-hour duration. This version is available in a maintained version for such applications as 'night lighting' in hospital wards. This version comes complete with a robust remote enclosure which houses all the control components.

An alternative LED head is available that uses three 1W LEDs in a dichroic housing, complete with a 'through hole flame-retardant pack' to allow installation into solid ceilings such as plaster. The LED-Lite fully supports all features of the LuxIntelligent test system. IP65 weatherproof versions available for outside usage.

**Operation**
The LED-Lite is supplied with integral non-maintained emergency lighting control gear. The self-contained unit offers three-hour emergency lighting duration from integral nickel-metal hydride batteries. The LED-Lite incorporates a green LED to provide battery charge indication. The luminaires will automatically provide emergency lighting in the event of a loss of local mains supply. The benefits of modern LEDs are well documented.

**Installation**
The LED-Lite recessed units can be discreetly mounted in a 45mm cut-out. When the ‘corridor’ lens is specified, the LED can easily be rotated to align the distribution along the escape route.

**Specification**
- **Supply voltage**: 230 Volt (220-240V) @50Hz
- **Supply power**: 1.5W
- **Light source**: 3W white LED
- **Colour temperature**: 4500K
- **Body**: Steel remote box
- **IP ratings**: IP42 (IP65 available on request)
- **Ambient temperature**: 0 to 40 °C
- **Cut-out diameter/minimum void depth**: 45mm / 175mm
- **Dimensions (H*W*D)**: 285 * 95 * 40 (mm) (remote box)
- **Weight**: 1.0kg (3W LED)
- **Battery**: 2.4V 1/8Ah NiCd
- **Lumens (emergency)**: 160lm

**Spacing Data**

<table>
<thead>
<tr>
<th>Mounting height (m)</th>
<th>Open area lens</th>
<th>Corridor area lens</th>
<th>High-level lens</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Spacing (m)</td>
<td>min 1 lux</td>
<td>Spacing (m)</td>
</tr>
<tr>
<td>2</td>
<td>9.8</td>
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<td>n/a</td>
<td>11.1</td>
</tr>
<tr>
<td>10</td>
<td>n/a</td>
<td>n/a</td>
<td>9.8</td>
</tr>
<tr>
<td>12</td>
<td>n/a</td>
<td>n/a</td>
<td>7.8</td>
</tr>
</tbody>
</table>

**Light curve output**

For part numbers and order options, please contact us directly.
The LED-Lite range of surface mount luminaires offers a simple method of providing discrete emergency lighting in areas that require a robust surface-mounted, self-contained solution.

Available with a symmetrical wide-angle lens or an asymmetrical ‘corridor’ lens for escape routes, or as a 20 degree high-level beam version for highlighting key areas; the luminaire simply requires a permanent 230 Volt supply (and addressable wiring) to provide effective non-maintained emergency lighting with a three-hour duration. The LED-Lite fully supports all features of the LuxIntelligent test system. IP65 weatherproof versions also available for outside usage.

### Operation
The LED-Lite is supplied with integral non-maintained emergency lighting control gear. The self-contained unit offers three-hour emergency lighting duration from integral nickel-metal hydride batteries. The LED-Lite incorporates a high brightness green LED into the white polycarbonate bezel to provide battery charge indication. The luminaires will automatically provide emergency lighting in the event of a loss of local mains supply. The benefits of modern LEDs are well documented.

### Installation
The LED-Lite units have a BESA rear entry and 20mm knock-outs for surface conduit entry. When the ‘corridor’ lens is specified, the LED can easily be rotated to align the distribution along the escape route.

### Key Features
- Fully compatible with LuxIntelligent test system
- Available as open area ‘corridor’ or ‘high-level’ lens options
- IP42 as standard with IP65 weatherproof versions available
- Low power consumption
- Excellent spacing values
- Discrete surface-mounted LED luminaire
- Robust construction

### Specification
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>230 Volt (220-240V) @50Hz</td>
</tr>
<tr>
<td>Supply power</td>
<td>1.5W</td>
</tr>
<tr>
<td>Light source</td>
<td>3W white LED</td>
</tr>
<tr>
<td>Cable entry</td>
<td>2<em>20mm entries, 1</em>BESA (rear)</td>
</tr>
<tr>
<td>Body</td>
<td>Steel back box with steel fascia plate</td>
</tr>
<tr>
<td>IP ratings</td>
<td>IP42 (IP65 available on request)</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>0 to 40 °C</td>
</tr>
<tr>
<td>Dimensions (H<em>W</em>D)</td>
<td>195 * 195 * 40 (mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.5kg</td>
</tr>
<tr>
<td>Battery</td>
<td>2.4V 1/8Ah NiCd</td>
</tr>
<tr>
<td>Lumens</td>
<td>160lm</td>
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</table>

### Spacing Data

<table>
<thead>
<tr>
<th>Mounting height (m)</th>
<th>Open area lens</th>
<th>Corridor area lens</th>
<th>High-level lens</th>
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<tbody>
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<td></td>
<td>Spacing (m)</td>
<td>Spacing (m)</td>
<td>Spacing (m)</td>
</tr>
<tr>
<td></td>
<td>min 0.5 lux</td>
<td>min 1 lux</td>
<td>min 0.5 lux</td>
</tr>
<tr>
<td>2</td>
<td>9.8</td>
<td>8.9</td>
<td>n/a</td>
</tr>
<tr>
<td>2.5</td>
<td>9.4</td>
<td>8.2</td>
<td>n/a</td>
</tr>
<tr>
<td>3</td>
<td>8.7</td>
<td>7.5</td>
<td>n/a</td>
</tr>
<tr>
<td>3.5</td>
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<td>5.9</td>
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<td>6.4</td>
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</tr>
<tr>
<td>10</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>12</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

### Light curve output
For part numbers and order options, please contact us directly.
The LED-Lite High Output 270 lumen range of recessed and surface mount luminaires offers a simple method of providing discrete emergency lighting in areas that require a self-contained solution.

Available with a symmetrical wide-angle lens or an asymmetrical ‘corridor’ lens for escape routes, or a narrow 20 degree high level beam for highlighting points of emphasis, the luminaire is designed to provide effective non-maintained emergency lighting with a 3-hour duration. It is available in a maintained version for applications such as ‘night lighting’ in hospital wards. This version comes complete with a robust remote enclosure which houses all the control components. The LED-Lite High Output range fully supports all features of the LuxIntelligent test system.

Operation
The LED-Lite High Output range is supplied with integral non-maintained emergency lighting control gear.

Installation
The LED-Lite recessed units can be discretely mounted in a 45mm cut-out or we also offer a surface mountable unit that contains all the necessary control gear within a wall or ceiling mountable box. Additionally when the ‘corridor’ lens is specified, the LED can easily be rotated to align the distribution along the escape route.

### Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>230 Volt (220-240V) @50Hz</td>
</tr>
<tr>
<td>Supply power</td>
<td>3.0W</td>
</tr>
<tr>
<td>Light source</td>
<td>3W white LED</td>
</tr>
<tr>
<td>Colour temperature</td>
<td>4500K</td>
</tr>
<tr>
<td>Body</td>
<td>Steel remote box</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP42 (IP65 available on request)</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>0 to 40°C</td>
</tr>
<tr>
<td>Cut-out diameter (minimum void depth)</td>
<td>40mm / 115mm</td>
</tr>
<tr>
<td>Dimensions (H<em>W</em>D)</td>
<td>285 x 95 x 40 (mm) (remote box)</td>
</tr>
<tr>
<td>(L<em>W</em>H)</td>
<td>195 x 195 x 40 (mm) (surface mount)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.2kg (recessed)</td>
</tr>
<tr>
<td>(Surface mount)</td>
<td>1.7kg (surface mount)</td>
</tr>
<tr>
<td>Battery</td>
<td>6V 4Ah NiCd (1 x 2 cell stick &amp; 1 x 3 cell stick)</td>
</tr>
<tr>
<td>Lumens (emergency)</td>
<td>270lm</td>
</tr>
</tbody>
</table>

**Downlighter in white**

**Surface mount version**

**Key Features**
- High output 270lm variant of our standard LED-Lite range
- 700mA driver for greater spacing and height requirements
- Available as open area, corridor or high-level lens versions
- Available as recessed and surface mount options
- IP65 variants available
- Reliable LED technology with low power consumption
- Excellent spacing values
- Discrete recessed LED luminaire
- Fully compatible with LuxIntelligent test system
- Suitable for a mixture of ceiling types

**Light curve output**

### Spacing Data – LED-Lite High Output with Open Area Lens

<table>
<thead>
<tr>
<th>Mounting height (m)</th>
<th>Luminaire to Wall (m)</th>
<th>Luminaire to Luminaire (m)</th>
<th>Open area (0.5 lux)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4.1</td>
<td>12.5</td>
<td>4.7</td>
</tr>
<tr>
<td>2.5</td>
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<td>12.2</td>
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<td>3</td>
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<td>11.6</td>
<td>4.2</td>
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<tr>
<td>4</td>
<td>2.5</td>
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<td>3.6</td>
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<td>n/a</td>
</tr>
<tr>
<td>12</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

### Spacing Data – LED-Lite High Output with High Level Lens

<table>
<thead>
<tr>
<th>Mounting height (m)</th>
<th>Luminaire to Wall (m)</th>
<th>Luminaire to Luminaire (m)</th>
<th>Open area (0.5 lux)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5.7</td>
<td>14.2</td>
<td>5.2</td>
</tr>
<tr>
<td>2.5</td>
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<td>15.5</td>
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<td>3</td>
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<td>6.7</td>
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<td>7.2</td>
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<tr>
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<td>5.7</td>
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<td>8.2</td>
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<tr>
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<td>3.8</td>
<td>16.6</td>
<td>10.3</td>
</tr>
<tr>
<td>10</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>12</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

**Surface mount version**

---

*Also available in black. For part numbers and order options, please contact us directly.*
The Mor-LED bulkhead is a robust IP65 rated polycarbonate base combined with a clear fresnel lens housing 16 high-output white LEDs and constant current maintained drive circuit. The luminaire provides 150 lumens and the lens generates a wide intensity distribution ideal for providing good luminance on an escape route. We are also able to offer a high output variant that produces 800 lumens, suitable for areas such as treatment rooms. A deep (150mm) opal diffuser is available to provide double-sided signage if required. The Mor-LED fully supports all features of the LuxIntelligent test system and complies fully with all the relevant requirements of EN60598.2.22.

**Operation**

The Mor-LED is supplied with integral maintained emergency lighting control gear. The non-maintained operation is achieved by excluding the switched live supply. The self-contained variants offer three-hour emergency lighting duration from integral nickel cadmium batteries. The luminaires can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a loss of local mains supply. The benefits of modern LEDs are well documented. They are very energy efficient and offer very long life (typically over 50,000 hours). They also operate at low temperatures (no cold starting problems) and do not create higher internal temperatures, therefore improving the life of the internal batteries as well as making them more suitable for use in cold store environments. They are ideal for low-maintenance applications offering four to five years of maintenance-free operation.

**Installation**

20mm drilling points are available at either end of the base as well as one on the rear.

**Key Features**
- Fully compatible with LuxIntelligent test system
- Long life LEDs (50,000 hours)
- IP65-rated bulkhead
- Low power consumption (less than 10W)
- Suitable for use in cold stores (down to -20°C)
- Fully compliant with all aspects of EN60598.2.22
- Lens can be fitted with 100mm high self-adhesive signs
- 90 Lumens output as standard
- High output 800 Lumens variant available

**Light curve output**

**Specification**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>230 Volt (220-240V) @50Hz</td>
</tr>
<tr>
<td>Supply power</td>
<td>3.0W</td>
</tr>
<tr>
<td>Charge power (typical)</td>
<td>1.2W</td>
</tr>
<tr>
<td>Light source</td>
<td>16 white LEDs</td>
</tr>
<tr>
<td>Colour temperature</td>
<td>4600K</td>
</tr>
<tr>
<td>Cable entry</td>
<td>20mm drilling points (polycarbonate)</td>
</tr>
<tr>
<td>Construction</td>
<td>White polycarbonate base and optical grade, UV stabilised lens</td>
</tr>
<tr>
<td>Geartray</td>
<td>Hinged white plastic</td>
</tr>
<tr>
<td>IP ratings</td>
<td>IP65 (at 25°C)</td>
</tr>
<tr>
<td>Dimensions (H<em>W</em>D)</td>
<td>350 * 120 * 65 (mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.1kg (1.2kg with deep diffuser)</td>
</tr>
<tr>
<td>Luminaire lumens (mains and emergency)</td>
<td>150lm</td>
</tr>
<tr>
<td>Luminaire lumens (high output version emergency)</td>
<td>800lm</td>
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<tr>
<td>Battery</td>
<td>1 x 3.6V 1.5Ah NiCd</td>
</tr>
</tbody>
</table>

**Spacing Data**

<table>
<thead>
<tr>
<th>Mounting height Hm (m)</th>
<th>Trans. to wall</th>
<th>Trans. to trans</th>
<th>Axial to trans</th>
<th>Axial to axial</th>
<th>Axial to wall</th>
</tr>
</thead>
<tbody>
<tr>
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<td>5.9</td>
<td>4.3</td>
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<td>4.7</td>
<td>3.6</td>
<td>2.6</td>
<td>0.4</td>
</tr>
</tbody>
</table>

**Dimensions**

| Deep Double-sided Diffuser |  |

For part numbers and order options, please contact us directly.
The Mor-LED High Output bulkhead is a robust IP65-rated polycarbonate base and polycarbonate fresnel lens.

Mor-LED High Output luminaires provide 800 lumen output as standard, with the fresnel lens creating cost-effective opportunities to minimise the number of luminaires required within an installation.

Mor-LED luminaires can be surface mounted or semi-recessed and are ideal for exterior and industrial applications where higher illuminance levels are required. The luminaire provides 800 lumen and the lens generates a wide intensity distribution ideal for providing good luminance on an escape route. The Mor-LED fully supports all features of the LuxIntelligent test system and complies fully with all the relevant requirements of EN60598.2.22.

**Operation**

The Mor-LED is supplied with integral maintained emergency lighting control gear. The non-maintained operation is achieved by excluding the switched live supply. The self-contained variants offer 3-hour emergency lighting duration from integral nickel cadmium batteries. The luminaires can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a loss of local mains supply.

They are ideal for low-maintenance applications offering 4 to 5 years of maintenance-free operation and provide an excellent solution to anywhere with a high lux requirement such as 50 lux in an emergency in a treatment room.

**Specification**

<table>
<thead>
<tr>
<th></th>
<th>Maintained</th>
<th>Mains only</th>
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<tr>
<td>Light source</td>
<td>2 x LED strip PCBs</td>
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<td>Colour temperature</td>
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<td>Luminaire lumens (maint)</td>
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<td>Luminaire lumens (emerg)</td>
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<td>IP rating</td>
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<td>Ambient temperature (Ta)</td>
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<td>40mA</td>
</tr>
<tr>
<td>Supply current</td>
<td>25mA</td>
<td>40mA</td>
</tr>
<tr>
<td>Supply power (mains)</td>
<td>5W</td>
<td>8W</td>
</tr>
<tr>
<td>Charge power (typical)</td>
<td>4W</td>
<td>–</td>
</tr>
<tr>
<td>Battery</td>
<td>7.2V 3.0Ah NiCd</td>
<td>–</td>
</tr>
<tr>
<td>Weight</td>
<td>1.4kg</td>
<td>1.0kg</td>
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**Spacing Data**

<table>
<thead>
<tr>
<th>Mounting height Hm (m)</th>
<th>Trans. to wall</th>
<th>Trans. to trans</th>
<th>Axial to trans</th>
<th>Axial to axial</th>
<th>Axial to wall</th>
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<td>7.3</td>
<td>15.8</td>
<td>14.6</td>
<td>14.7</td>
<td>5.4</td>
</tr>
</tbody>
</table>

**Key Features**

- Fully compatible with LuxIntelligent test system
- High output 800 lumens
- Long-life LEDs (50,000 hours)
- IP65-rated bulkhead
- Low power consumption
- Suitable for use in cold stores (down to -20°C)
- Fully complies with all aspects of EN60598.2.22
- Lens can be fitted with 100mm high self-adhesive signs
- Suitable for 50 lux minimum requirements like treatment rooms

**Light curve output**

**Dimensions**

For part numbers and order options, please contact us directly.
The Circu-LED offers a decorative, surface-mounted circular luminaire, incorporating high-output white LEDs providing ultra-long life and low power consumption.

The LED luminaires use an aluminium base (white as standard) and a twist on fire-retardant PMMA diffuser. The luminaire has a huge 1550 lumens output and is not prone to the issues often prevalent in the 28W T5 counterpart fittings. This makes it an ideal replacement for such areas as stairwells, where building owners may wish to use motion detectors to cut down on unnecessary lighting for areas not permanently occupied.

The Circu-LED luminaire range supports all the features of the LuxIntelligent range of emergency lighting test panels and also fully complies with the requirements of EN60598.2.22. It also meets with the current Part L energy targets offering over 60 lumens per watt.

**Operation**

The range can be supplied as mains only or maintained emergency versions. Both versions are available with 1-10V dimming control as an option. All emergency versions provide three-hour duration from integral high-temperature nickel cadmium batteries. Maintained versions can be used for standard switched mains lighting but will automatically provide emergency power in the event of loss of the local mains supply.

**Installation**

The luminaire has a 20mm entry at the centre of the back plate of the aluminium base.

---

**Key Features**

- Decorative circular LED luminaire
- Fully LuxIntelligent compatible
- Long life LEDs (50,000 hours)
- Low power consumption
- Standard and dimmable versions available
- Fully complies with all aspects of EN60598.2.22

**Specification**

<table>
<thead>
<tr>
<th>Supply voltage</th>
<th>230 Volt (220-240V) @ 50Hz (PF 0.92)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply power</td>
<td>Mains: 24W  Maintained: 27.5W</td>
</tr>
<tr>
<td>Charge current</td>
<td>200mA (24 hour recharge period)</td>
</tr>
<tr>
<td>Light source</td>
<td>White LEDs (2800lm)</td>
</tr>
<tr>
<td>Colour temperature</td>
<td>4500K</td>
</tr>
<tr>
<td>Light output</td>
<td>1920 lumens (mains) 410 lumens (emergency)</td>
</tr>
<tr>
<td>Construction</td>
<td>White aluminium base with twist-on PMMA diffuser</td>
</tr>
<tr>
<td>Geartray</td>
<td>Integral to base</td>
</tr>
<tr>
<td>Cable entry</td>
<td>20mm hole (centre of back plate)</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP 20</td>
</tr>
<tr>
<td>Insulation class</td>
<td>Class 1</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>230V squiggly horizontal line 50Hz</td>
</tr>
<tr>
<td>Supply power</td>
<td>22.7W (mains) 26.1W (emergency)</td>
</tr>
<tr>
<td>Charge power (typical)</td>
<td>3.5W (emergency)</td>
</tr>
<tr>
<td>Battery</td>
<td>1 x 6.0V 2.0Ah NiCd</td>
</tr>
<tr>
<td>Dimensions</td>
<td>395mm (dia) x 113mm (H)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.3kg (mains) 3.4kg (emergency)</td>
</tr>
</tbody>
</table>

**Finishes**

The Circu-LED is also available with a brushed silver body (see image right).

**Datasheet**

For part numbers and order options, please contact us directly.

---

**Light curve output**

**Spacing Data**

<table>
<thead>
<tr>
<th>Mounting height (m)</th>
<th>Fitting to wall</th>
<th>Fitting to fitting</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td>4.2</td>
<td>10.7</td>
</tr>
<tr>
<td>4.0</td>
<td>4.8</td>
<td>12.5</td>
</tr>
<tr>
<td>2.5</td>
<td>5.2</td>
<td>11.6</td>
</tr>
<tr>
<td>4.0</td>
<td>5.4</td>
<td>13.0</td>
</tr>
</tbody>
</table>

For part numbers and order options, please contact us directly.
The Round-LED range provides both mains and emergency lighting from a well designed luminaire with a white polycarbonate base and opal polycarbonate diffuser, sealed to IP65, making it suitable for both interior and external applications.

The luminaire has a unique lever to release the diffuser which can be secured with the supplied locking screw to increase tamper/vandal resistance. Internally, the removable steel geartray has 54 white high output long life LEDs mounted upon it reveals access to the control gear and terminal blocks.

The Round-LED range supports all the features of the LuxIntelligent range of emergency lighting test panels and also fully complies with the requirements of EN60598.2.22. It also meets with the current Part L energy targets offering over 60 lumens per Watt.

**Operation**

The luminaire can be supplied in both mains only or maintained emergency versions (non-maintained can be achieved by excluding the normal switched mains live supply). Both versions can be supplied with dimming control as well microwave presence detectors. All emergency versions provide 3 hour duration from the integral high temperature (NiMH) batteries.

**Installation**

The luminaire has 20mm drilling points on the base for cable entry.

**Key Features**

- Versatile circular LED luminaire
- Long life LEDs (50,000 hours)
- Fully LuxIntelligent compatible
- Low power consumption
- Standard and emergency versions available
- IP65 luminaire
- Fully complies with all aspects of EN60598.2.22

**Specification**

- **Light Source**: 54 x white LEDs (2200lm)
- **Colour temperature**: 4500K
- **Construction**: White polycarbonate base and opal polycarbonate diffuser
- **Geartray**: Hinged white painted steel fixed via 3 screws
- **Dimensions**: 330mm (Dia) x 126mm (H)
- **Cable entry**: 20mm drilling points
- **Light output**: 1410 Lumens (mains) 350 Lumens (emergency)
- **IP rating**: IP65
- **Ambient temperature**: 25°C
- **Insulation class**: Class II
- **Supply voltage**: 230V – 50Hz
- **Supply power**: 13w (mains) 17w (emergency)
- **Battery**: 1 x 6.0V 2.0Ah (NiCd)
- **Weight**: 2.8kg (mains) 3.4kg (emergency)

**Spacing Data**

<table>
<thead>
<tr>
<th>Mounting height (m)</th>
<th>Spacing (M) Min. 0.5 Lux Open Area</th>
<th>Spacing (M) Min. 1 Lux Escape</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>10.7</td>
<td>7.7</td>
</tr>
<tr>
<td>2.5</td>
<td>11.6</td>
<td>7.9</td>
</tr>
<tr>
<td>3.0</td>
<td>12.5</td>
<td>8.1</td>
</tr>
<tr>
<td>4.0</td>
<td>12.9</td>
<td>8.4</td>
</tr>
</tbody>
</table>

**Light curve output**

For part numbers and order options, please contact us directly.
The Refined-LED range offers decorative surface-mounted circular luminaires incorporating high output white LEDs within a ‘sealed’ polycarbonate light source enclosure, minimising loss of efficacy due to dirt.

The mains driver and emergency lighting gear is installed in the back of the housing away from internal heat sources. The main luminaire housing is installed by twisting onto the first fix ring.

The Refined-LED range offers an exceptional opportunity to design contemporary lighting installations with aesthetic luminaires specifically designed to offer mains-only or maintained emergency lighting with integral microwave presence detectors for switching the mains operation where required. Refined-LED luminaires comply with EN60598.

Standard Refined-LED luminaires provide 2100 Luminaire Lumens at 25 Watts (84lm/W). The luminaires are available with standard mains drivers or with integral 3 hour duration maintained emergency gear that is fully compatible with any LuxIntelligent system. Mains and emergency versions may be specified with an integral microwave presence detector to switch the mains lighting. Sensitivity, ‘on’ time and ambient light levels can be selected during installation. The LuxIntelligent emergency lighting version uses integral high temperature nickel cadmium batteries.

Maintained versions can be used for standard switched mains lighting, but will automatically provide emergency lighting in the event of a complete loss of normal mains supply.

Key Features
- Decorative circular LED luminaire
- Fully LuxIntelligent compatible
- Long-life LEDs (50,000 hours)
- Low power consumption
- Standard mains versions available
- Fully complies with all aspects of EN60598.2.22
- Microwave detector options available

Specification
- Dimensions: 360mm diameter x 65mm deep
- Supply voltage: 230V (220-240V) @ 50Hz
- Supply power: Mains: 25W  Maintained: 27W
- Light output: 2100 lumens (mains) / 230 lumens (emergency)
- Charge power (typical): 1.9W
- Light source: 4000K surface mount white LEDs (3480 lumens)
- Construction: Polycarbonate housing & steel first fix ring
- Insulation class: Class II
- Cable entry: Through first fix steel ring
- IP rating: IP 20 (at 25°C)
- Dimensions: 400mm diameter
- Weight: 2.6kg (mains) / 3.5kg (emergency)
- Battery (maintained): 1 x 6.0V 2.0Ah NiCd

Dimensions

Light curve output

Spacing Data

<table>
<thead>
<tr>
<th>Mounting height (m)</th>
<th>Fitting to wall</th>
<th>Fitting to fitting</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td>4.7</td>
<td>11.2</td>
</tr>
<tr>
<td>4.0</td>
<td>5.0</td>
<td>12.9</td>
</tr>
<tr>
<td>2.5</td>
<td>5.7</td>
<td>12.2</td>
</tr>
<tr>
<td>4.0</td>
<td>6.0</td>
<td>13.6</td>
</tr>
</tbody>
</table>

In Use Example

For part numbers and order options, please contact us directly.
Weather-LED luminaires provide attractive and robust solutions for providing lighting to areas such as walkways, tunnels, storage areas and car parks and are fully compatible with both existing and new LuxIntelligent systems.

Weather-LED is available in a choice of three covers: standard, eyelid and crossblade. The eyelid and crossblade covers are cast aluminium for additional robustness - see photos for examples.

The enclosure is sealed to IP65 and houses a gear tray, electronic driver and multi-circuit LED board. The polycarbonate lens provides excellent photometric performance (1750 luminaire lumens).

The robust cast aluminium and polycarbonate enclosure is vandal resistant and provides protection to IP65/IK10. Suitable for ambient temperatures of up to 35°C (25°C for emergency versions), the units are ideal for both interior and exterior environments.

Operation

Weather-LED luminaires are available as a maintained emergency operation. All versions provide a 3-hour duration from integral high temperature nickel cadmium (NiCd) batteries. By being maintained luminaires, they can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a complete loss of normal mains supply.

The benefits of the modern white low power LEDs include long life (typically 50,000 hours+), excellent energy efficiency, and low operating temperatures which improves the life of the internal batteries. Weather-LED luminaires are fully comply to the requirements of EN60598.2.22.

Key Features

- Decorative circular LED luminaire
- Fully addressable and compatible with LuxIntelligent systems
- IP65 rating
- Multiple covers available
- Long life LEDs (50,000 hours)
- Low power consumption
- Standard and microwave sensor versions available
- Fully complies with all aspects of EN60598.2.22
- 1750lm under mains operation
- 280lm under emergency operation

Light curve output

<table>
<thead>
<tr>
<th>Specification</th>
<th>Weather-LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>Weather-LED</td>
</tr>
<tr>
<td>Light source</td>
<td>Multi-circuit LEDs</td>
</tr>
<tr>
<td>Construction</td>
<td>Cast aluminium body (incl. EYE or CDB covers) with polycarbonate opal lens</td>
</tr>
<tr>
<td>Geartray</td>
<td>White PCB fixed keyhole slots</td>
</tr>
<tr>
<td>Cable entry</td>
<td>20mm conduit in back</td>
</tr>
<tr>
<td>Light source</td>
<td>Surface-mounted white LEDs (2500lm max.)</td>
</tr>
<tr>
<td>Colour temperature</td>
<td>4500K</td>
</tr>
<tr>
<td>Luminaire lumens (mains)</td>
<td>1750lm (1400lm EYE version)</td>
</tr>
<tr>
<td>Luminaire lumens (emergency)</td>
<td>280lm (224lm EYE version)</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP65</td>
</tr>
<tr>
<td>Ambient temperature (Ta)</td>
<td>35°C (25°C emergency)</td>
</tr>
<tr>
<td>Insulation class</td>
<td>Class I</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>230V 50Hz</td>
</tr>
<tr>
<td>Supply power</td>
<td>22.0W (21.4W EYE version)</td>
</tr>
<tr>
<td>Charge power (typical)</td>
<td>3W</td>
</tr>
<tr>
<td>Battery</td>
<td>5 x 2Ah NiCd sub-C cells</td>
</tr>
<tr>
<td>Weight</td>
<td>3.9kg</td>
</tr>
</tbody>
</table>

Eyelid Cover

Crossblade Cover

For part numbers and order options, please contact us directly.
**Twin-LED**

The Twin-LED projector luminaire provides a simple and efficient means of creating a high level of emergency illumination across a given area. The luminaire uses a unique lens system offering a high degree of optical control, resulting in high-intensity beam patterns across a working plane.

**Operation**
The standard luminaire mode of operation is as a non-maintained emergency unit. In the event of a power failure, the units will switch to emergency operation immediately, making them ideal for high-risk areas. They will operate the projectors for three hours, or until the return of power. The two 3 watt LED projector heads are powered by integral nickel cadmium (NiCd) rechargeable batteries that fully comply with the requirements of BS EN 60598-2-22. The emergency function fully supports all the features of the LuxIntelligent test system.

**Installation**
The projector heads can be remotely mounted away from the control box. The construction of the control box also allows for the mounting of the unit with the projectors on the underside. The luminaire has 20mm knock-outs in one end at the back for ease of cable entry.

**Key Features**
- Ideal for high risk processes
- Energy-efficient LED solution
- Complies with BS EN 60598-2-22
- Full photometry available
- Wall-mounted at 2.5m, can be spaced at 25m achieving 1 Lux centre line
- Fully compatible with the LuxIntelligent test system

**Specification**
- Supply voltage: 230V (220-240V) @ 50Hz
- Supply power: 2.9W
- Light source: Two 3W LED heads (9 white LEDs each)
- Light output: 2 x 380lm
- Recharge period: 24 hours (14 hours to one hour duration)
- Charging power (typical): 2.9W
- IP rating: IP20
- Ambient temperature: 25°C
- Insulation class: Class II
- Colour temperature: 5000K
- Dimensions (mm): 275 x 155 x 55 (W x H x D)
- Total height (including heads, mm): 300
- Weight: 3.6kg
- Battery: 3.6V 4.0Ah NiCd

**Light curve output**

For part numbers and order options, please contact us directly.
Twin LED IP65 Weatherproof

The Twin-LED IP65 weatherproof projector luminaire provides a simple and efficient means of creating a high level of emergency illumination across a given area. The luminaire uses a unique lens system which offers high degree of optical control, resulting in high-intensity beam patterns across a working plane.

Operation

The standard luminaire mode of operation is as a non-maintained emergency unit. In the event of a power failure, the units will switch to emergency operation immediately, making them ideal for high-risk areas. They will operate the projectors for three hours, or until the return of power. The two 3 Watt LED projector heads are powered by integral nickel cadmium (NiCd) rechargeable batteries that fully comply with the requirements of BS EN 60598-2-22. The emergency function fully supports all the features of the LuxIntelligent test system.

Installation

The projector heads can be remotely mounted away from the control box. The construction of the control box also allows for the mounting of the unit with the projectors on the underside. The luminaire has 20mm knock-outs in one end at the back for ease of cable entry.

Spacing

When wall mounted at 2.5m high, the Twin-LED can be spaced 25 metres apart to achieve 1 Lux on a corridor centre line. Full photometric files available on request.

Key Features

- IP65 Weatherproof
- Ideal for high risk processes
- Energy efficient LED solution
- Complies with BS EN 60598-2-22
- Full photometry available
- Wall mounted at 2.5m, can be spaced at 25 metres achieving 1 Lux centre line
- Fully compatible with LuxIntelligent test system
- IP20 variant available

Specification

- Supply voltage: 230V (220-240V) @ 50Hz
- Supply power: 6W
- Light source: Two 3W LED heads (5 white LEDs each)
- Light output: 2 x 520lm
- Recharge period: 24 hours (14 hours to one hour duration)
- Charging power: 2.5W (typical)
- IP rating: IP65
- Ambient temperature: 25°C
- Insulation class: Class II
- Colour temperature: 5000K
- Dimensions (mm): 280 x 190 x 140 (W x H x D)
- Total height (including heads, mm): 310
- Weight: 3.6kg
- Battery: 7.2V 4.5Ah NiCd

Twin LED IP65 Weatherproof Dimensions

For part numbers and order options, please contact us directly.
The Blade LED range of LED exit sign luminaires meets all the expectations of LED luminaires — long life, lower energy and a choice of attractive design solutions.

All variations are supplied with legend ‘screens’ mounted onto the face of an acrylic panel. The luminaires can be surface mounted, suspended or recessed. The recessed units look more conventional but still use the latest LED technology. The surface-mounted and suspended versions feature extruded aluminium housings for the LEDs and associated control gear, with separate kits available to convert a standard ceiling mounting luminaire into a suspended or wall-mounted variation.

Suspended and surface-mounted Blade LEDs are much smaller and more attractive than their conventional fluorescent counterparts, but still meet all the requirements, including achieving the 28-metre viewing distance. 15 high-brightness white LEDs clearly and evenly illuminate the safety sign legends.

**Operation**

All units are supplied with integral maintained emergency lighting control gear, which can be configured to run in a non-maintained condition too. In the event of a supply failure, the exit signs will be illuminated for three hours. The luminaires support all the features of the LuxIntelligent range of emergency lighting test panels.

**Installation**

A range of mounting brackets are available to allow direct fixing to walls and ceilings for both surface and suspended versions, while the recessed version comes complete with adjustable arms to simplify installation into different thicknesses of supporting surfaces. The recessed unit is supplied with a visible ceiling plate.

**Key Features**

- Long life and low energy performance
- Recessed, suspension and surface mount versions available
- Fully compatible with LuxIntelligent test system
- Complies with EN60598.2.22
- 28m viewing distance
- Available in white, chrome and black

**Specification**

- **Supply voltage**: 230 Volt (205-255V) @ 50Hz
- **Supply power**: 4.5W
- **Charge supply (typical)**: 1.7W
- **Light source**: 15 long life white LEDs
- **Colour temperature**: 4500K
- **Battery**: 4.8V 0.9Ah NiCd
- **Charge current**: 200mA nominal
- **Recharge period**: 24 hours (14 hours for 1 hour)
- **IP rating**: IP20
- **Weight**: Less than 3kg

**Dimensions**

For part numbers and order options, please contact us directly.
The Exi-LED exit sign is a reliable, attractive product that offers excellent performance with long life and low energy benefits. Its slim but robust welded steel housing, available in a selection of finishes, provides a ‘picture frame’ appearance around the brightly lit exit legend.

These legends are available with a choice of directions and formats (European or ISO). Although smaller than conventional fluorescent exit signs, the Exi-LED still provides a useful 25-metre viewing distance, in both mains and emergency modes with 15 high brightness white LEDs and state-of-the-art reflector. These legends are available with a choice of directions and formats (European or ISO).

The Exi-LED panel features matrix dot coating to ensure the LEDs evenly illuminate the safety sign legend. Standard luminaires are supplied with integral maintained emergency control gear, which in the event of a power failure, will ensure the exit sign continues to operate with the same sign luminance for three hours from the internal NiMH battery.

Key Features
- Fully compatible with LuxIntelligent test system
- Long life and low energy performance
- Sleek stylish design
- Fully complies with all aspects of EN60598.2.22

Operation
The Exi-LED panel features matrix dot coating to ensure the LEDs evenly illuminate the safety sign legend. Standard luminaires are supplied with integral maintained emergency control gear, which in the event of a power failure, will ensure the exit sign continues to operate with the same sign luminance for three hours from the internal NiMH battery.

Installation
The Exi-LED mounts on the wall using simple keyhole slots or via the central BESA entry. The front cover simply hooks onto the back plate and is retained with a single fixture located centrally on the base.

Specifications
- Operation: Maintained 3 hour
- Light source: 15 long-life white LEDs
- Battery: 2.4V 2.0Ah NiMH
- Input voltage: 230V +/-10% 50Hz
- Charge current: 100mA nominal
- Recharge period: 24 hours (14 hours for one-hour duration)
- Power: 10VA
- IP rating: IP20
- Weight: 1.7kg
- Cable entry: Central rear BESA entry

Legends
The standard Exi-LED is supplied with ISO format exit legends. Unless stated, the luminaire will be supplied with the arrow down direction.

The legends are also available in the EC Signs Directive.

Dimensions

For part numbers and order options, please contact us directly.
The Escape-LED range provides excellent viewing distances of 36 metres using long life, low energy LEDs as a light source.

The benefits of the modern white low-power LEDs include long life (typically 50,000 hours+), excellent energy efficiency (>100lm/W) and low operating temperatures which improves the life of the internal batteries.

Escape-LED exit sign luminaires feature epoxy-coated steel enclosures with screen printed opal polycarbonate legend panels, enclosing integral rechargeable batteries and a PCB fitted with advanced wide-angle white LEDs and an efficient driver circuit.

**Operation**

The Escape-LED range is supplied with Maintained operation as standard, providing 3-hour duration from integral high temperature Nickel Cadmium (NiCd) batteries, and is fully compatible with new and existing LuxIntelligent addressable systems. (Non-maintained operation is available by excluding a switched live supply).

Pictogram legend panels complying with the Safety Signs Regulations are supplied as standard but ISO sign formats are also available. The luminaire offers bright and even luminance across the legend panel, ensuring maximum visibility in the event of an emergency. It fully complies with BS EN 60598.2.22.

**Key Features**

- Excellent 36-metre viewing distances
- Robust design with an epoxy coated steel body
- Fully complies with EN60598.2.22
- Supports all the features of the LuxIntelligent range of testing panels
- Long lasting (50,000+ hours) and low power LEDs
- 385mm (L) x 185mm (W) x 71mm (H)

**Specification**

- **Product:** LED Bulkhead and Exit Sign
- **Light source:** 16 x white LEDs
- **Luminaire lumens:** N/A
- **Sign viewing distance:** 36m
- **Construction:** Epoxy-coated steel body with screen printed Polycarbonate legend panel
- **Geartray:** Integral to base
- **Dimensions:** 385mm (L) x 185mm (W) x 71mm (H)
- **Cable entry:** 200mm knock-outs
- **Colour temperature:** 4500K
- **Lumens (emergency):** N/A
- **IP rating:** IP20
- **Ambient temperature (Ta):** 25°C
- **Insulation class:** Class I
- **Supply voltage:** 230V ~ 50Hz
- **Supply power:** 3.0W
- **Charge power (typical):** 1.7W
- **Battery:** 1 x 3.6V / 1.5Ah NiCd
- **Weight:** 1.6kg

**Dimensions**

For part numbers and order options, please contact us directly.
Cine-LED escape luminaires provide a simple solution to discrete escape signage.

They are available as both maintained and non-maintained variations and come with an opal downlight panel to illuminate directly below the luminaire. In an emergency, the escape sign is illuminated with high quality LEDs.

The Cine-LED escape luminaires are constructed in black epoxy coated galvanised steel and are designed to reduce unwanted light emission. This makes them suitable for many applications such as theatres, cinemas, school halls and photography rooms.

The black opaque exit legend is hidden unless illuminated, making it ideal not just for exit directions, but also for customised warnings only applicable under certain conditions, for example ‘Do Not Enter’ (get in touch for specific requirements).

Ultimately, the premises where these escape signs are fitted need to meet the requirements of the Regulatory Reform (Fire Safety) Order 2005 which is done by carrying out a fire-risk assessment. If the responsible person or persons conducting this risk assessment decide that a green on black sign is acceptable because of the reduced light levels in a particular area, then provided this is documented and regularly reviewed, this would mean that the premises are deemed to meet the requirements of the Regulatory Reform Order.

The luminaire fully supports all the features of the LuxIntelligent range of emergency lighting test panels when ordered as an addressable unit.

**Key Features**
- Low light emissions when not required
- Uses LEDs to illuminate escape sign
- Complies with EN60598.2.22
- Fully supports LuxIntelligent testing panels
- Available in mains only and 3 hour maintained or non-maintained

**Specification**
- Light source: 16 x white LEDs (4500K)
- Sign viewing distance (when lit): 36M
- Construction: Epoxy coated steel body with screen printed polycarbonate legend panel
- Geartray: Integral to base
- Dimensions: 385mm (L) x 185mm (W) x 71mm (H)
- Cable entry: 25mm knock-outs
- IP rating: IP20
- Ambient temperature (Ta): 0° to 25°C
- Insulation class: Class I
- Supply voltage: 230V ~ 50Hz
- Supply power: 3.0W (2.4W mains only)
- Charge power (typical): 1.7W
- Battery back-up: 1 x 3.6V 1.5Ah NiCd
- Weight: 1.6kg (1.4kg mains only)

**Dimensions**

For part numbers and order options, please contact us directly.
Dynamic Safety Signage

Solve exit issues and improve safety with dynamic signage.

Lack of adequate information about exit routes and natural human behaviour means people often make poor decisions in an emergency.

1. People don’t always notice escape route signs.
2. People are unlikely to follow a new/unfamiliar exit route.
3. People choose familiar, rather than nearest, exits – even when smoke is present.
4. In many fatal fires, the most familiar exit is also the most dangerous.

Dynamic signage enables better decision-making and quicker escape.

Dynamic safety signage helps people evacuate safely in an emergency. It fully complies with visibility standards, is self-testing and fully monitored for complete peace of mind.

- Clearly indicates the safest escape route at all times.
- Uses pulsing arrows that capture attention and compel action.
- Reduces the risk of dangerous bottlenecks.
- Instantly adapts exit signage as emergency situations change.

Integrating dynamic safety signage with the fire system

You can use dynamic signage as part of your LuxIntelligent light testing system, which in turn integrates with almost any fire system.

- Dynamic signage can be automatically triggered in an emergency via the fire panel. Using pulsing green LED arrows, it offers clear, directional signage for occupants to follow to find their nearest escape route.
- Using cause and effect, it also highlights escape routes that are no longer viable using a red cross and guides occupants towards an alternative route.

Compatible with LuxIntelligent – the Advanced emergency lighting test system

Dynamic safety signage is easy to monitor and test when used as part of a LuxIntelligent analogue addressable lighting test system.

- The system features a unique panel which automatically monitors and tests your emergency lighting for easy, cost-effective compliance with BS 5266 – the Code of Practice for the emergency lighting of premises.

Maximising compliance

LuxIntelligent ensures that all your emergency lights work and are regularly tested to the relevant standards and records the results for maximum compliance. The digital test results are suitable to replace a manual log book in accordance with BS 5266 guidance.

Easy management

You can choose exactly what time and dates your emergency lighting is automatically tested. What’s more, the panels and emergency lighting systems can be monitored and managed on a laptop, local PC or even connected to the Cloud and monitored by a mobile phone or remote computer.

Time saving

LuxIntelligent is quick to install. All testing is done automatically, with no intervention or engineer time required. Any maintenance needed is flagged for easy visibility.

Flexibility

A single LuxIntelligent panel can support up to 996 emergency lights and is highly flexible. Suitable for both retrofits and new builds, its huge capacity means that you can grow your system at your own pace.

Cost effective

A LuxIntelligent system minimises the labour and effort needed to test and maintain your system. It keeps costs low and offers unbeatable performance, monitoring and ease of use. The average payback period for our addressable system is 1.5 to 2 years.

An example building layout

This example shows the fire and lighting system actively moving occupants away from the main entrance which is blocked by a fire. The dynamic signage is triggered by cause and effect software in the fire panel and shows:

- Where the viable escape routes are
- The routes that are no longer viable
When a fire alarm sounds, it is crucial that occupants leave the building quickly by the nearest exit, but around 70% of occupants miss conventional passive/static emergency escape signs.

Occupants unaware of standard escape signage tend to leave via their known, proven route – often the main entrance – which causes slower evacuation times and potentially dangerous bottlenecking; this can be especially dangerous if the main entrance is blocked in an incident.

LuxIntelligent’s Dynamic Escape Sign, with a pulsing array of green LEDs, presents a clear and universally-understood directional arrow in the event of an incident and is proven to catch the attention of occupants. It enables them to make the right choices when escaping, improves evacuation time and lowers the risk of dangerous bottlenecking.

When passive, the Dynamic Escape Sign meets the requirements of EN 60598-2-22 and is suitable to be used as a fully compliant passive/static escape sign. It can be used in new builds or retrofitted in place of existing escape signage.

When active, the Dynamic Escape Sign is fully fault-monitored and automatically tested by our LuxIntelligent panel in accordance with BS 5266-1.

The dynamic pulsing green arrow can be triggered either manually (e.g. a key switch) or automatically by integrating our LuxIntelligent automatic testing panel with the existing fire alarm system via simple input/output modules. The green arrows can be triggered either as individual devices, in zones or all at once, providing proof of compliance to BS 5266-1 and improving the life safety and evacuation speed of occupants.

The luminaire fully supports all the features of the LuxIntelligent range of emergency lighting test panels when ordered as an addressable unit.

Key Features
- Fully compatible with LuxIntelligent system
- Centrally reports and tests to BS 5266-1 requirements
- When passive, fully complies to visibility standards and EN 60598-2-22
- Manually or automatically triggered dynamic pulsing green arrow
- Compatible with any fire alarm system
- Occupants twice as fast at recognising dynamic escape signage
- Occupants 3 times faster at making correct escape route decision
- 24 metre viewing distance
- Available as single and double sided
- Surface mount and IP65 variants available
- ‘Red cross’ option available – contact for more details

Specification
- Supply voltage: 230V AC @ 50Hz
- Supply power:
  - ‘Static/Passive’ mode: 6.0W
  - ‘Dynamic’ mode: 13.5W
- Light source: LED strip & dynamic led arrays (36,000+ hours)
- Materials - body: Zintec galvanised steel
- Materials - trim: Zintec powder-coated steel
- Materials - legend: Cast-acrylic with pre-applied legend/built-in dynamics
- Battery: 4 cell 4.8V 1500-2100mAh NiMH
- Recharge period: Less than 24 hours
- IP rating: IP20
- Weight Approx.: 3kg

Recessed dimensions (mm)

Dynamic and adaptive range

See our adaptive range of escape signs for more information on our ‘red cross’ fully-adaptive system. Both dynamic and adaptive escape signs available in recessed, surface/wall mount and a wall mount IP65 variant.
When a fire alarm sounds, it is crucial that occupants leave the building quickly by the nearest exit, but around 70% of occupants miss conventional passive/static emergency escape signs.

Occupants unaware of standard escape signage tend to leave via their known, proven route – often the main entrance – which causes slower evacuation times and potentially dangerous bottlenecking; this can be especially dangerous if the main entrance is blocked in an incident.

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When passive, the Dynamic Escape Sign meets the requirements of EN 60598-2-22 and is suitable to be used as a fully compliant passive/static escape sign. It can be used in new builds or retrofitted in place of existing escape signage.

LuxIntelligent’s Dynamic Escape Sign is fully fault-monitored and automatically tested by our LuxIntelligent panel in accordance with BS 5266-1.

When the dynamic pulsing green arrow is activated, the signage meets BS 7273-6:2019 (the code of practice for the operation of fire protection measures) in relation to dynamic safety signage systems and intelligent signage - for example, how the signage should fail safe.

The dynamic pulsing green arrow can be triggered either manually (e.g. a key switch) or automatically by integrating our LuxIntelligent automatic testing panel with any existing fire alarm system via simple input/output modules. The dynamic pulsing green arrows can be triggered either as individual devices, in zones or all at once, providing proof of compliance to BS 5266-1 and improving the life safety and evacuation speed of occupants.

Key Features
- Fully compatible with LuxIntelligent system
- Centrally reports and tests to BS 5266-1 requirements
- When passive, fully complies to visibility standards and EN 60598-2-22
- Manually or automatically triggered dynamic pulsing green arrow
- Compatible with any fire alarm system
- Occupants twice as fast at recognising dynamic escape signage
- Occupants 3 times faster at making correct escape route decision
- 24 metre viewing distance
- Available as single and double sided
- Recessed version and IP65 variants available
- ‘Red Cross’ option available - contact for more details

Specification

Supply voltage: 230V AC @ 50Hz
Supply power ‘static/passive’ mode: 6.0W
Supply power ‘dynamic’ mode: 13.5W
Light source: LED strip & dynamic led arrays (36,000+ hours)
Materials - body: Zintec galvanised steel
Materials - trim: Zintec powder coated steel
Materials - legend: Cast acrylic with pre-applied legend/built in dynamics
Battery: 4 Cell 4.8V 1500-2100mAh NiMH
Recharge period: Less than 24 hours
IP rating: IP20
Weight: Approx. 3.3KG

Recessed dimensions (mm)

Dynamic and adaptive range

See our adaptive range of escape signs for more information on our ‘red cross’ fully-adaptive system. Both dynamic and adaptive escape signs available in recessed, surface/wall mount and a wall mount IP65 variant.
Datasheet

Dynamic Escape Sign IP65 Weatherproof

When a fire alarm sounds, it is crucial that occupants leave the building quickly by the nearest exit, but around 70% of occupants miss conventional passive/static emergency escape signs.

Occupants unaware of standard escape signage tend to leave via their known, proven route - often the main entrance - which causes slower evacuation times and potentially dangerous bottlenecking; this can be especially dangerous if the main entrance is blocked in an incident.

LuxIntelligent’s Dynamic Escape Sign, with a pulsing array of green LEDs, presents a clear and universally-understood directional arrow in the event of an incident and is proven to catch the attention of occupants. It enables them to make the right choices when escaping, improves evacuation time and lowers the risk of dangerous bottlenecking.

When passive, the Dynamic Escape Sign meets the requirements of EN 60598-2-22 and is suitable to be used as a fully compliant passive/static escape sign. It can be used in new builds or retrofitted in place of existing escape signage.

LuxIntelligent’s Dynamic Escape Sign is fully fault-monitored and automatically tested by our LuxIntelligent panel in accordance with BS 5266-1.

When the dynamic pulsing green arrow is activated, the signage meets BS 7273-6:2019 (the code of practice for the operation of fire protection measures) in relation to dynamic safety signage systems and intelligent signage - for example, how the signage should fail safe.

The dynamic pulsing green arrow can be triggered either manually (e.g. a key switch) or automatically by integrating our LuxIntelligent automatic testing panel with any existing fire alarm system via simple input/output modules. The dynamic pulsing green arrows can be triggered either as individual devices, in zones or all at once, providing proof of compliance to BS 5266-1 and improving the life safety and evacuation speed of occupants.

Key Features
- IP65 weatherproof version suitable for exterior use
- Fully compatible with LuxIntelligent system
- Centrally reports and tests to BS 5266-1 requirements
- When passive, fully complies to visibility standards and EN 60598-2-22
- Manually or automatically triggered dynamic pulsing green arrow
- Compatible with any fire alarm system
- Occupants twice as fast at recognising dynamic escape signage
- Occupants 3 times faster at making correct escape route decision
- 25 metre viewing distance
- Available as single-sided only
- Surface mount and recessed variants available
- ‘Red cross’ option available - contact for more details

Specification
- Supply voltage: 230V AC @ 50Hz
- Supply power ‘static/passive’ mode: 6.0W
- Supply power ‘dynamic’ mode: 13.5W
- Light source: LED strip & dynamic led arrays (36,000+ hours)
- Materials - body: Steel powder-coated white
- Materials - legend: BS 476-7 Class 3 perspex with pre-applied legend/built in dynamics
- Battery: 4 cell 4.8V 2100mAh NiMH
- Recharge period: Less than 24 hours
- IP rating: IP65
- Weight: Approx. 3KG

Recessed dimensions (mm)

Dynamic and adaptive range

See our adaptive range of escape signs for more information on our ‘red cross’ fully-adaptive system. Both dynamic and adaptive escape signs available in recessed, surface/wall mount and a wall mount IP65 variant.
When a fire alarm sounds, it is crucial that occupants leave the building quickly by the nearest exit, but around 70% of occupants miss conventional passive/static emergency escape signs. Occupants unaware of standard escape signage tend to leave via their known, proven route – often the main entrance – which causes slower evacuation times and potentially dangerous bottlenecks; this can be especially dangerous if the main entrance is blocked in an incident. In addition, static/passive escape signage may be routing occupants towards hazardous areas that are potentially filled with smoke and fire.

LuxIntelligent’s Adaptive Escape Sign can illuminate a pulsing array of green LEDs providing a clear and universally understood directional arrow for occupants to follow to the nearest escape route but is also able to display an active Red Cross to highlight unviable escape routes.

When passive, the Adaptive Escape Sign meets the requirements of EN 60598-2-22 and is suitable to be used as a fully compliant passive/static escape sign in either a new build or is fully suitable to be retrofitted in place of existing escape signage. LuxIntelligent’s Adaptive Escape Sign is fully compatible with the LuxIntelligent Automatic Emergency Lighting Test System meaning the Adaptive Escape Sign is fully fault monitored and automatically tested by our LuxIntelligent Panel in accordance with BS 5266-1.

Controlling the Adaptive Escape Signage is achieved by integrating a 3rd party addressable Fire Input/Output Unit so the signage can be fully controlled via an Addressable Fire System’s built in ‘Cause and Effect’ software – this allows the Fire System to have complete control of on-going escape route viability in accordance with BS 7273-6:2019 (Code of practice for the operation of fire protection measures).

The ‘Cause and Effect’ programming is usually the responsibility of the Fire Engineer and forms just one part of the overall Fire Evacuation Plan. If the pre-planned escape scenarios becomes exhausted, the Adaptive Escape Signs can simply revert back to all Pulsing Green Arrows or to a Static/Compliant static/passive mode enabling the system to fail safe.

The LuxIntelligent System provides a fully automatic emergency lighting test system that replaces the need for manual checks and testing on all emergency lighting on site and when integrated with any Fire Alarm System, our system can provide peace of mind by providing proof of compliance to BS 5266-1 but also allow the Fire System to actively route occupants away from hazardous areas in the event of an incident providing improved life safety and safer evacuations.

### Datasheet

**Adaptive Escape Sign**

*Recessed*

#### Key Features
- Fully compatible with LuxIntelligent System
- Centrally reports and tests to BS 5266-1 requirements
- When passive, fully complies to visibility standards and EN 60598-2-22
- Triggerable adaptive pulsing green arrow and red cross
- Compatible with most fire alarm systems
- Occupants twice as fast at recognising dynamic escape signage
- Occupants 3 times faster at making correct escape route decision
- Actively routes occupants away from hazardous areas
- 24 metre viewing distance
- Available as single and double sided
- Surface mount and IP65 variants available
- For a more simplistic green arrow only version, see our dynamic signage range

#### Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>230V AC @ 50Hz</td>
</tr>
<tr>
<td>Supply power ‘static/passive’ mode</td>
<td>6.0W</td>
</tr>
<tr>
<td>Supply power ‘dynamic’ mode</td>
<td>13.5W</td>
</tr>
<tr>
<td>Light source</td>
<td>LED strip &amp; dynamic led arrays (36,000+ hours)</td>
</tr>
<tr>
<td>Materials - body</td>
<td>Zintec galvanised steel</td>
</tr>
<tr>
<td>Materials - trim</td>
<td>Zintec powder coated steel</td>
</tr>
<tr>
<td>Materials - legend</td>
<td>Cast acrylic with pre-applied legend/built in dynamics</td>
</tr>
<tr>
<td>Battery</td>
<td>4 cell 4.8V 1500-2100mAh NiMH</td>
</tr>
<tr>
<td>Recharge period</td>
<td>Less than 24 hours</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP20</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 3kg</td>
</tr>
</tbody>
</table>

#### Recessed dimensions (mm)

<table>
<thead>
<tr>
<th>Dimension (mm)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>120</td>
</tr>
<tr>
<td>Height</td>
<td>300</td>
</tr>
</tbody>
</table>

#### Dynamic and adaptive range

See our adaptive range of escape signs for more information on our ‘red cross’ fully-adaptive system. Both dynamic and adaptive escape signs available in recessed, surface/wall mount and a wall mount IP65 variant.

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*Datasheet*
When a fire alarm sounds, it is crucial that occupants leave the building quickly by the nearest exit, but around 70% of occupants miss conventional passive/static emergency escape signs.

Occupants unaware of standard escape signage tend to leave via their known, proven route — often the main entrance which causes slower evacuation times and potentially dangerous bottlenecks; this can be especially dangerous if the main entrance is blocked in an incident. In addition, static/passive escape signage may be routing occupants towards hazardous areas that are potentially filled with smoke and fire.

LuxIntelligent's Adaptive Escape Sign can illuminate a pulsing array of green LEDs providing a clear and universally understood directional arrow for occupants to follow to the nearest escape route but is also able to display an active Red Cross to highlight unviable escape routes.

When passive, the Adaptive Escape Sign meets the requirements of EN 60598-2-22 and is suitable to be used as a fully compliant passive/static escape sign in either a new build or is fully suitable to be retrofitted in place of existing escape signage.

LuxIntelligent's Adaptive Escape Sign is fully compatible with the LuxIntelligent Automatic Emergency Lighting Test System meaning the Adaptive Escape Sign is fully fault monitored and automatically tested by our LuxIntelligent Panel in accordance with BS 5266-1.

Controlling the Adaptive Escape Signage is achieved by integrating a 3rd party addressable Fire Input/Output Unit so the signage can be fully controlled via an Addressable Fire System's built in ‘Cause and Effect’ software — this allows the Fire System to have complete control of on-going escape route viability in accordance with BS 7273-6:2019 (Code of practice for the operation of fire protection measures).

The ‘Cause and Effect’ programming is usually the responsibility of the Fire Engineer and forms just one part of the overall Fire Evacuation Plan. If the pre-planned escape scenarios becomes exhausted, the Adaptive Escape Signs can simply revert back to all Pulsing Green Arrows or to a Static/Passive (and therefore compliant) escape sign enabling the system to fail safe.

**Key Features**
- Fully compatible with LuxIntelligent System
- Centrally reports and tests to BS 5266-1 requirements
- When passive, fully complies to visibility standards and EN 60598-2-22
- Triggerable Adaptive Pulsing Green Arrow and Red Cross
- Compatible with most Fire Alarm Systems
- Occupants twice as fast at recognising dynamic escape signage
- Occupants 3 times faster at making correct escape route decision
- Actively routes occupants away from hazardous areas
- 24 metre viewing distance
- Available as single and double sided
- Recessed and IP65 variants available
- For a more simplistic Green Arrow only version, see our Dynamic range

**Specification**
- Supply voltage: 230V AC @ 50Hz
- Supply power 'Static/Passive' mode: 6.0W
- Supply power 'Dynamic' mode: 13.5W
- Light source: LED strip & dynamic led arrays (36,000+ hours)
- Materials - Body: Zintec galvanised steel
- Materials - Trim: Zintec powder coated steel
- Materials - Legend: Cast acrylic with pre-applied legend/built in dynamics
- Battery: 4 Cell 4.8V 1500-2100mAh NiMH
- Recharge period: Less than 24 hours
- IP rating: IP20
- Weight Approx.: 3.3KG

**Recessed dimensions (mm)**

**Dynamic and adaptive range**

See our adaptive range of escape signs for more information on our ‘red cross’ fully-adaptive system. Both dynamic and adaptive escape signs available in recessed, surface/wall mount and a wall mount IP65 variant.
When a fire alarm sounds, it is crucial that occupants leave the building quickly by the nearest exit, but around 70% of occupants miss conventional passive/static emergency escape signs.

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LuxIntelligent's Adaptive Escape Sign is fully compatible with the LuxIntelligent Automatic Emergency Lighting Test System meaning the Adaptive Escape Sign is fully fault monitored and automatically tested by our LuxIntelligent Panel in accordance with BS 5266-1. Controlling the Adaptive Escape Signage is achieved by integrating a 3rd party Addressable Fire Input/Output Unit so the signage can be fully controlled via an

Addressable Fire System’s built in ‘Cause and Effect’ software – this allows the Fire System to have complete control of on-going escape route viability in accordance with BS 7273-6:2019 (Code of practice for the operation of fire protection measures).

The ‘Cause and Effect’ programming is usually the responsibility of the Fire Engineer and forms just one part of the overall Fire Evacuation Plan. If the pre-planned escape scenarios becomes exhausted, the Adaptive Escape Signs can simply revert back to all Pulsing Green Arrows or to a Static / Passive (and therefore compliant) escape sign - enabling the system to fail safe.

The LuxIntelligent System provides a fully automatic emergency lighting test system that replaces the need for manual checks and testing on all emergency lighting on site and when integrated with any Fire Alarm System, our system can provide peace of mind by providing proof of compliance to BS 5266-1 but also allow the Fire System to actively route occupants away from hazardous areas in the event of an incident providing improved life safety and safer evacuations.

Datasheet
Adaptive Escape Sign
IP65 Weatherproof

Key Features
- IP65 Weatherproof version suitable for exterior use
- Fully compatible with LuxIntelligent System
- Centrally reports and tests to BS 5266-1 requirements
- When passive, fully complies to visibility standards and EN 60598-2-22
- Triggerable Adaptive Pulsing Green Arrow and Red Cross
- Compatible with most Fire Alarm Systems
- Occupants twice as fast at recognising dynamic escape signage
- Occupants 3 times faster at making correct escape route decision
- Actively routes occupants away from hazardous areas
- 25 metre viewing distance
- Available as single sided only
- Surface mount and recessed variants available
- For a more simplistic Green Arrow only version, see our Dynamic range

Specification
- Supply voltage: 230V AC @ 50Hz
- Supply power ‘Static/Passive’ mode: 6.0W
- Supply power ‘Dynamic’ mode: 13.5W
- Light source: LED strip & dynamic led arrays (36,000+ hours)
- Materials - Body: Steel powder coated white
- Materials - Legend: BS 476-7 Class 3 Perspex with pre-applied legend/built in dynamics
- Battery: 4 Cell 4.8V 2100mAh NiMH
- Recharge period: Less than 24 hours
- IP rating: IP65
- Weight: Approx. 3KG

Recessed dimensions (mm)

Dynamic and adaptive range
See our adaptive range of escape signs for more information on our ‘red cross’ fully-adaptive system. Both dynamic and adaptive escape signs available in recessed, surface/wall mount and a wall mount IP65 variant.
EasySAFE

Intelligent Low-Voltage Emergency Lights

EasySafe is a new range of addressable, low-voltage emergency luminaires and exit signs that work with our proven, high-performing LuxIntelligent control panel.

Easy installation
EasySafe lights are quick and easy to fit and service with a simple ‘twist and click’ installation onto a first-fix base.
There is no need for a fully-qualified electrician, and devices can be swapped in and out safely and easily.

Add to your existing lights
Our low-voltage EasySafe devices are powered directly from the LuxIntelligent control panel, so a local power supply is not required.
They can sit alongside LuxIntelligent luminaires and exit signs using existing wiring to form one intelligent emergency lighting system.

Reliable and versatile
EasySafe lights are a low-voltage option within our existing emergency lighting system which is renowned for its quality and reliability.
The system offers true scalability. One LuxIntelligent panel can support up to 200 EasySafe devices alongside additional locally powered devices.

Compliance made easy
It’s never been easier to manage maintenance and compliance.
Test results and maintenance data are reported in our LuxIntelligent cloud platform and are available at the touch of a button via our cloud-connected LuxIntelligent control panel, PC or mobile app – wherever you are in the world.

www.luxintelligent.com

- Up to 4 loop cards per panel
- Network panels via LAN or LuxIntelligent cloud
- 50 EasySafe devices per loop card
- Maximum of 200 EasySafe devices per panel
- EasySafe devices can sit alongside LuxIntelligent devices
- Easily add mains powered and high output devices for tough requirements
The EasySafe range of surface-mount luminaires offers a simple method of providing discrete emergency lighting in areas that require a robust surface-mounted, self-contained solution.

Available with a symmetrical wide angle lens or an asymmetrical ‘corridor’ lens for escape routes. The luminaire simply requires an addressable wiring connection to the LuxIntelligent panel to provide effective non-maintained emergency lighting with a three-hour duration. The LED-Lite fully supports all features of the LuxIntelligent test system.

**Operation**

The EasySafe downlighter is supplied with integral non-maintained emergency lighting addressable control gear. The self-contained unit offers three-hour emergency lighting duration from integral nickel-metal hydride batteries. The EasySafe downlighter incorporates a high-brightness green LED into the white polycarbonate bezel to provide battery charge and luminaire healthy indication. The luminaires will automatically provide emergency lighting in the event of a loss of local mains supply (monitored by the LuxIntelligent panel at source). The benefits of modern LEDs are well documented.

**Installation**

The EasySafe downlighter units are easily installed, base first, just like standard fire detectors. There is no local mains feed required, reducing costs from both labour and materials requirements. When the ‘corridor’ lens is specified and installed, the LED component can easily be rotated in situ, to align the distribution along the escape route.

---

**Key Features**

- Fully compatible with LuxIntelligent test system
- Available as open area or ‘corridor’ options
- Reliable LED technology
- Powered from the LuxIntelligent data loop at 32V DC
- No 230V connection required
- Excellent spacing values
- Discrete surface-mounted LED luminaire
- Robust construction
- Simple ‘first fix’ bases

**Specification**

- **Supply voltage**: Low voltage (32V)
- **Operating voltage**: 18-32V
- **Quantity**: Up to 50 EasySafe type luminaires per loop
- **Light source**: 3W white LED
- **Cable termination**: 14/16 AWG, 1.3/2.0mm²
- **Body**: PC/ABS 2950
- **Colour**: White body (RAL9003) & grey base (Pantone 429)
- **Dimensions (H*W*D)**: 120 (diameter) * 43 (height) (mm)
- **Weight**: 0.229Kg (including batteries)
- **Lumens**: 50lm

**Spacing Data**

- **Open area downlighter, 0.5Lux**
  - Mounting Height (m) | Spacing to wall (m) | Spacing between (m)
  - 2.0 | 2.3 | 7.4
  - 2.5 | 2.4 | 8.1

- **Corridor downlighter, 1.0Lux, 2m wide corridor**
  - Mounting Height (m) | Spacing axial to wall (m) | Spacing between (m)
  - 2.0 | 4.5 | 13.0
  - 2.5 | 3.35 | 12.7

**Local Lighting Circuit Monitoring (uses LXP-110)**

The LuxIntelligent Input/Output Module (LXP-110) is a loop powered device that can be programmed to trigger specific groups of luminaries on the same loop. To trigger EasySafe luminaries when there is a loss of power to regular lighting, it is possible to connect the local lighting circuit via a 240V relay (sold separately) and connecting the LXP-110 to the COMMON and NORMALLY OPEN terminals of the 240V Relay via the switch inputs as shown.

**Dimensions and Rotating Lens**

The rotating lens is applicable to the Corridor Lens version only. The lens can be rotated after final fitment to the first fix base to ensure correct alignment of the LED lens in the direction of travel in a given escape route.

For part numbers and order options, please contact us directly.
The EasySafe escape sign is a reliable, attractive product that offers excellent performance with long life and low energy benefits.

Its versatile design allows it to be both wall and ceiling mounted. The legends are available with a choice of directions and formats (European or ISO). Although smaller than conventional fluorescent escape signs, the EasySafe exit luminaire still provides a useful 25-metre viewing distance, in both mains and emergency modes. The EasySafe luminaire fully supports the self-testing features of the LuxIntelligent test system and complies with all the relevant requirements of EN60598.2.22. Since it is totally powered via the LuxIntelligent panel, it uses the LuxIntelligent I/O peripheral to monitor local power distribution boards to allow the lights to react in the event of power outages.

**Operation**

The luminaire is available only as a maintained fitting with low illumination under normal conditions making it useful in such applications as cinemas and theatres. In the event of a power outage, the illumination switches to maximum output, providing clear direction towards exits. The EasySafe luminaire uses state-of-the-art reflective screens to ensure the LEDs evenly illuminate the safety sign legend. Luminaires are supplied with integral maintained emergency control gear, which ensure that in the event of a power failure, the escape sign continues to operate with the same level of luminance for three hours from the internal NiMH battery.

**Installation**

The EasySafe luminaires are easily installed, base first, just like fire detection devices. The luminaire body simply clicks in place when required. A small screw can be used to fix the hanging angle, depending on wall or ceiling fixing. There is no local mains feed required, reducing both labour and material costs.

**Key Features**

- Fully compatible with LuxIntelligent test system
- Powered from the LuxIntelligent data loop at 32 V DC
- No 230V connection required
- Long life and low energy performance LED technology
- Fully complies with all aspects of EN60598.2.22
- Viewing distance 25m
- Low maintained luminance level ideal for use in cinemas and theatres

**Specification**

- **Supply voltage**: Low voltage (32V)
- **Operating voltage**: 18-32V
- **Quantity**: Up to 50 EasySafe type luminaires per loop
- **Light source**: High output white LEDs
- **Cable termination**: 15/16 AWG, 1.3/2.0mm²
- **Body**: PC/ABS 2950
- **Colour**: White body (RAL9003), grey base & bracket (Pantone 429)
- **Dimensions (H*W*D)**: 301 (L) * 212 (H) * 80 (D) (mm)
- **Weight**: 0.738Kg (including battery pack)
- **Batteries**: 4 AAA NiMH 4.8V 600mAH pack
- **Viewing distance**: 25m
System Summary

The table below highlights the key features of LuxIntelligent

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum loops per standard size panel</td>
<td>4</td>
</tr>
<tr>
<td>No. of mains-powered lights per loop</td>
<td>249</td>
</tr>
<tr>
<td>No. of mains-powered lights per panel</td>
<td>996</td>
</tr>
<tr>
<td>No. of low-voltage lights per loop</td>
<td>50</td>
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<tr>
<td>No. of low-voltage lights per panel</td>
<td>200</td>
</tr>
<tr>
<td>Total no. of supportable devices</td>
<td>996</td>
</tr>
<tr>
<td>Hybrid of low-voltage and mains-powered emergency lighting?</td>
<td>Yes</td>
</tr>
<tr>
<td>Compatible with central battery systems / static invertors?</td>
<td>Yes</td>
</tr>
<tr>
<td>Data cable voltage</td>
<td>32V DC</td>
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<tr>
<td>Remote cloud service</td>
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<tr>
<td>Secondary interface panel required?</td>
<td>No</td>
</tr>
<tr>
<td>Separate stepdown transformer required?</td>
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<tr>
<td>Event memory</td>
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<tr>
<td>Maximum networkable panels</td>
<td>200</td>
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<tr>
<td>Able to convert non-emergency lights to emergency lights?</td>
<td>Yes</td>
</tr>
<tr>
<td>Able to work with pre-existing emergency lights?</td>
<td>Yes</td>
</tr>
<tr>
<td>Light spacing between low voltage open-area devices – 2m height</td>
<td>7.40m</td>
</tr>
<tr>
<td>Light spacing between low voltage corridor lens devices – 2m height</td>
<td>13.00m</td>
</tr>
<tr>
<td>No. of low voltage corridor devices needed for 2m high, 500m long corridor?</td>
<td>39</td>
</tr>
<tr>
<td>Adjustable corridor lens alignment after installation?</td>
<td>Yes</td>
</tr>
<tr>
<td>Battery type</td>
<td>NiMH</td>
</tr>
<tr>
<td>Power consumption of luminaires whilst charging</td>
<td>0.4W</td>
</tr>
<tr>
<td>Battery supplied or sold separately?</td>
<td>Supplied with devices</td>
</tr>
<tr>
<td>Designed to comply with BS EN 60598-2-22 (4 year battery life)?</td>
<td>Yes</td>
</tr>
<tr>
<td>First fix, common base?</td>
<td>Yes</td>
</tr>
<tr>
<td>Adjustable emergency exit sign angle?</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Learn about Emergency Lighting and Dynamic Safety Sign Systems

Our flexible training module on emergency light testing includes:

- An overview of BS 5266-1 – the code of practice for the emergency lighting of premises
- How to comply with the legislative requirements
- How to be proactive in maintaining and upgrading your emergency lighting
- Emerging technologies such as dynamic safety sign systems

We can deliver the CPD in a variety of ways to suit you. We offer sessions remotely via Zoom, Teams, in-person at our Newcastle upon Tyne training centre, or at your premises – over a working lunch or in more extended form with in-depth explanations and time for questions and answers. Please get in touch to find out more/discuss your needs.

To book your online CPD:
The best route to compliance for your emergency lighting, email sales@luxintelligent.com