

# BLE CONNECT

## Fully Automated Emergency Lighting System

No Wires. No Restrictions. No Limits.



[www.blelighting.co.uk](http://www.blelighting.co.uk)

No Wires.  
No Restrictions.  
No Limits.

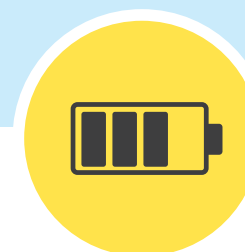


## What is BLE Connect?

Simplify the **maintenance** of your emergency lighting.



MEET  
LEGISLATIVE  
REQUIREMENTS



MONITOR  
BATTERY  
HEALTH



FULL  
REPORTING IN  
REAL TIME



INDEPENDENT  
WIRELESS  
NETWORK



NO MONTHLY  
FEES FOR  
EMERGENCY  
LIGHTING

All industrial, commercial and public buildings require emergency lighting, which needs to be regularly inspected and tested. Meeting legislative requirements is very labour intensive, especially if you **maintain multiple facilities**.

Simplify the process with BLE Connect, our new **Fully Automated Emergency Lighting System**.

BLE Connect operates using a self healing wireless mesh. Each luminaire automatically detects its neighbour to build the network. If a device is added, removed, or fails, the network will automatically re-organise and find the most efficient route.

## What are the benefits of BLE Connect?



## What are the benefits of BLE Connect?

### **SELF HEALING WIRELESS MESH**

Each luminaire automatically detects its neighbour to build the network. If a device is removed or fails, the network will automatically re-organise and find the most efficient route.

### **EASY INSTALLATION**

With no additional wiring, the system facilitates a straightforward installation.

### **NO MONTHLY FEES**

BLE Connect has no ongoing monthly or subscription fees.

### **MONITOR BATTERY HEALTH**

A battery reaching the end of its life can be replaced prior to failure.

### **HIGHLY SECURE**

In the wireless mesh all messages are encrypted and authenticated. The nodes are only discoverable by our router.

### **NO SINGLE POINT OF FAILURE**

There are numerous connection possibilities across the network, meaning no single device is relied upon. If one fails, another device will maintain the connection.

### **PREDICTIVE MAINTENANCE**

Knowing about any fault prior to arriving on site offers a time saving advantage.

### **ADAPTIVE FREQUENCIES**

BLE Connect avoids interference by dynamically switching channels when needed.

### **MANAGE MULTIPLE FACILITIES**

The user friendly portal allows for the easy maintenance of multiple facilities, with the ability to view each location and drill down to individual luminaires.

### **UNLIMITED CONNECTIONS**

There is literally no limit on the number of devices that can be used in a network.

### **REAL TIME REPORTING**

BLE Connect reports faults in real time and sends alerts to the designated responsible person by email or via the user portal.

### **INDEPENDENT WIREPAS NETWORK**

BLE Connect uses a secure Wirepas self-healing network, independent from internal networks.

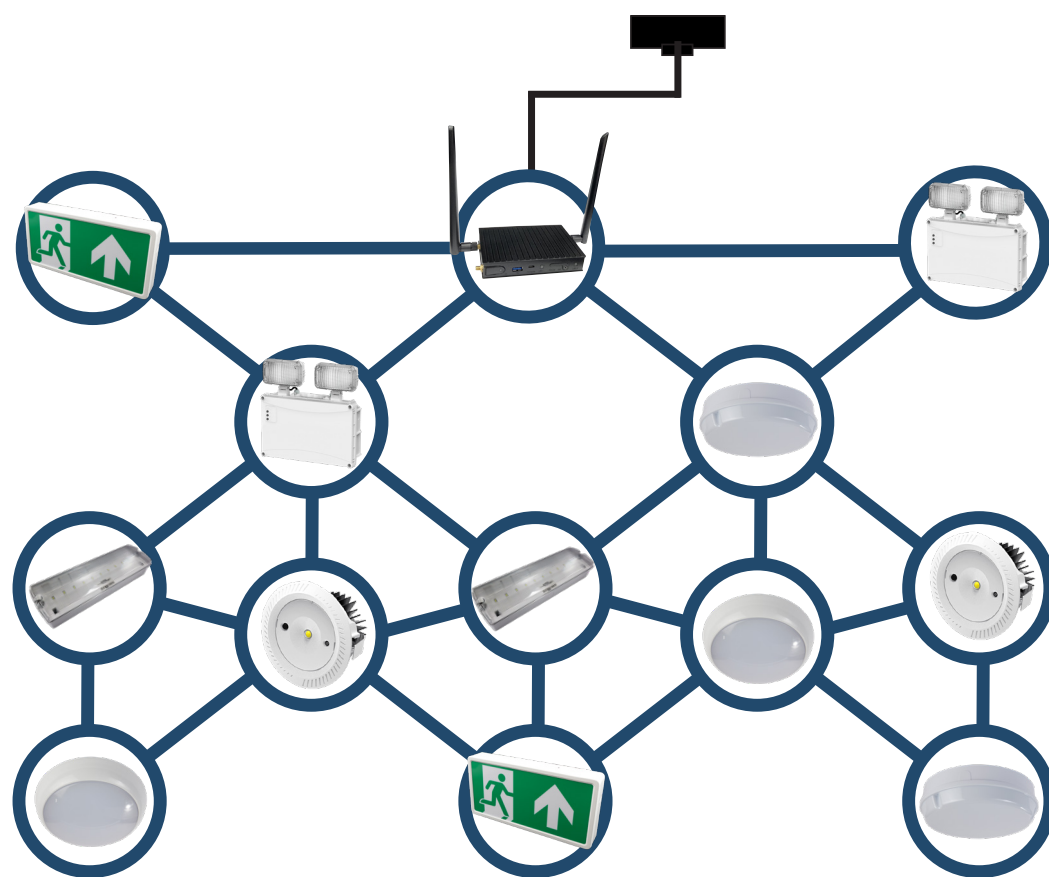
### **...LEADING TO FULL PEACE OF MIND**

## How does BLE Connect work?



### DECENTRALISED OPERATION

The core of the technology is 'decentralised' operation. We distribute all network management tasks to each device in the network. Devices are smart enough to make all decisions locally. Based on the local measurements, they decide how to form, maintain and operate the network. Every device can be a router at any time and can send and receive data within the network.



### SELF HEALING WIRELESS MESH

Each luminaire automatically detects its neighbour to build the network. If a device is added, removed, or fails, the network will automatically re-organise to find the most efficient route.

There are numerous connection possibilities across the network, meaning no single device is relied upon. If one fails, another device will maintain the connection.

## How does BLE Connect work?

### WHAT MAKES BLE CONNECT VERSATILE?

#### Range and density

BLE Connect utilises the Wirepas protocol.

The mesh uses the most modern radio technology. The 2.4GHz profile has a maximum range of 100 metres (approx) between fittings, ideal for large sites and institutions.

#### Communication

BLE Connect supports all communication directions – uplink, downlink, node to node – and addressing modes – unicast, multicast, broadcast.

#### Security

Every transmitted message can be encrypted with a unique AES-128 key.

### WHAT MAKES BLE CONNECT RELIABLE?

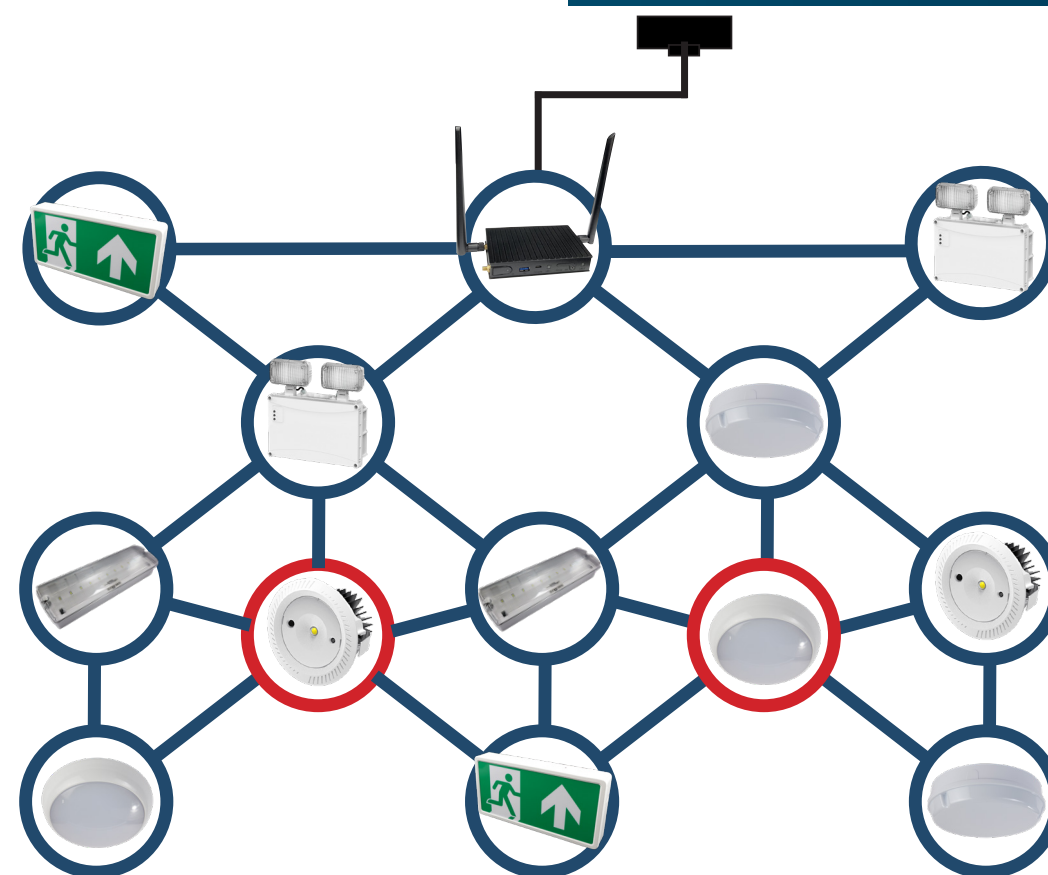
#### No single point of failure

Any device can be a router leading to multiple possible connections. Gateways are fully mutualised - in case one drops, another maintains the connection.

#### Adaptive Frequency Agility

BLE Connect avoids interference by dynamically switching channels when needed. It offers frequency agility on several channels and short time on-air (i.e 40 channels at 1mbps in BLE Connect Mesh 2.4Ghz).

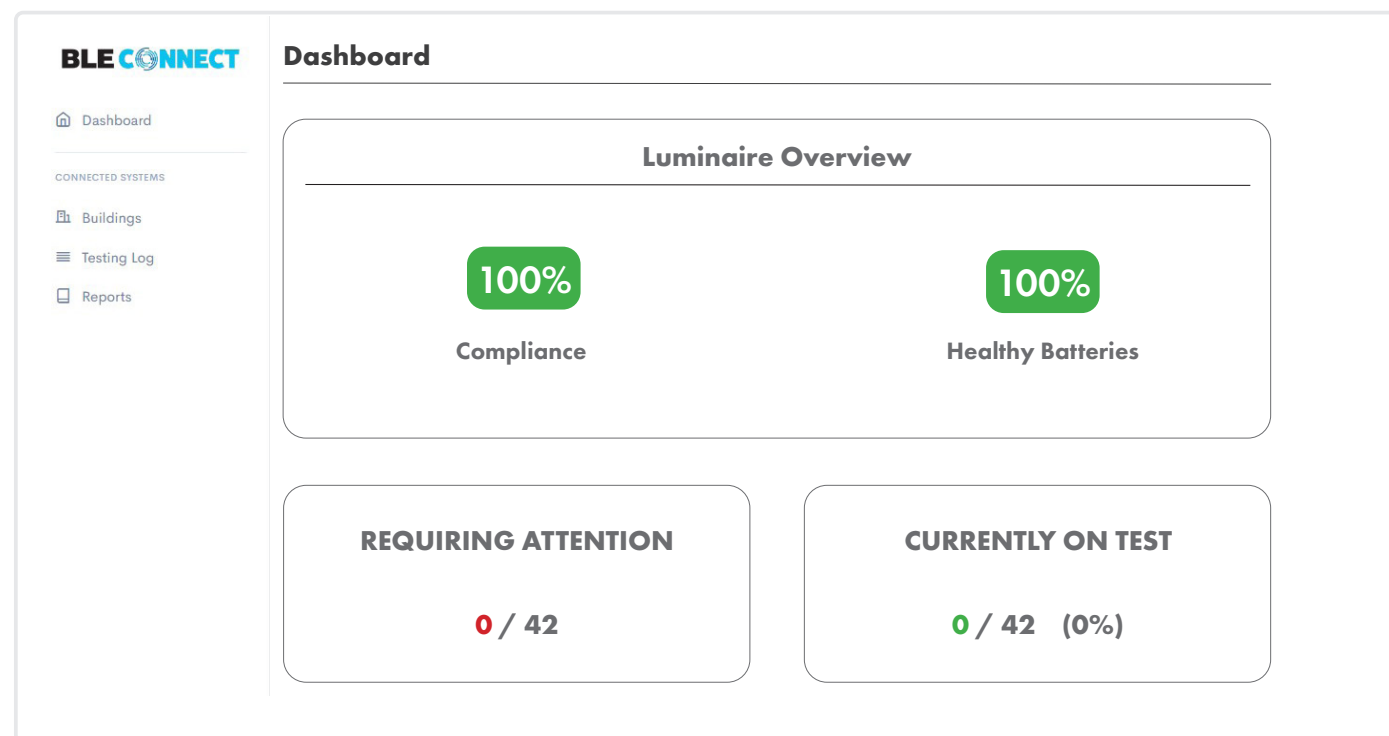
- Listen Before Talk (LBT)
- Adaptive transmit power
- Local multi-channel interference avoidance



The system automatically re-organises if a luminaire fails.



## How do I use the BLE Connect portal?



### View all building and luminaires

Designed with simplicity in mind, the BLE Connect Portal can be easily accessed online from any device.

Every building being maintained by a customer can be viewed, with details of each individual luminaire within.

Each luminaire has a unique identifier with the ability to then see if it has passed the latest monthly or annual test, along with other key information (detailed on pages 10 - 11).

### A dashboard view

A simple dashboard view is available for each building, showing the percentage of healthy and failed fittings along with the battery health, allowing for planned maintenance.

## How do I use the BLE Connect portal?

### What can I do within the BLE Connect portal?

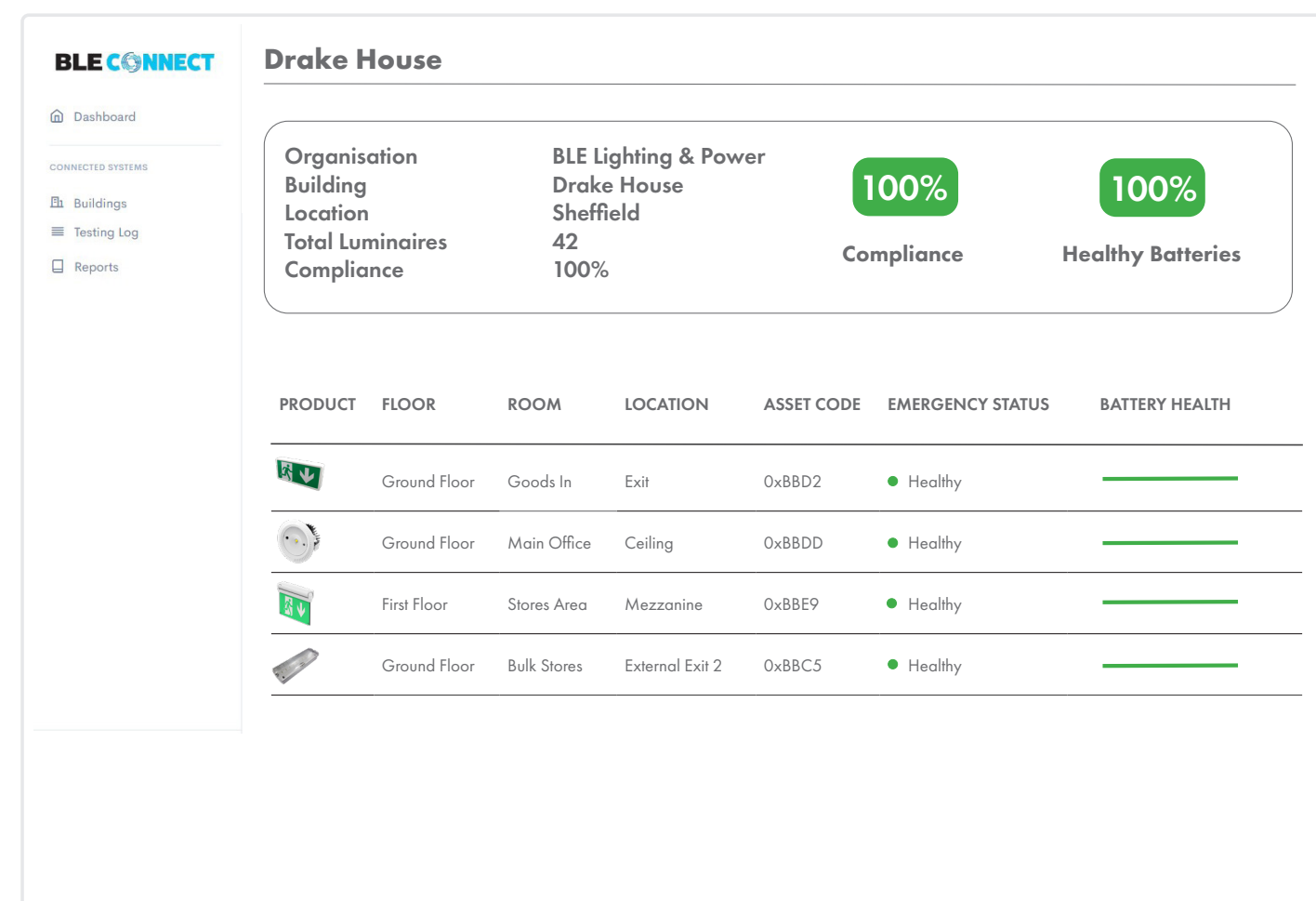
Users within the BLE Connect portal are given access to all the areas required to manage and maintain their emergency lighting. This includes adding new fittings to a building and viewing the status of every luminaire.

The BLE Connect team are on-hand to assist with additional requirements and settings.



### Reports

All information can be viewed within the portal in real time. Users can also set up individual reports that can be emailed, at a time defined by the user, with the results following each monthly or annual test.



## What does BLE Connect report on?

# Everything you need to know about the status of your emergency lighting



### LUMINAIRE STATUS

A simple indicator system advises if each luminaire is operational and has passed the latest functional test.



### LIGHT SENSOR

BLE Connect can sense if the light is present from the LEDs as well as checking the mains supply is present.



### BATTERY HEALTH

BLE Connect uniquely reports on battery health, providing advanced warning when battery health is low.



### LUMINAIRE LOCATION

The location of each luminaire across all sites can be viewed from the portal.



### PERFORM A TEST

A simple click will instruct a luminaire or site to perform an unscheduled test.



### TESTING SCHEDULE

The schedule can be seen at a glance showing the last performed test for each luminaire and when the next is due.

## What does BLE Connect report on?

# Plan maintenance of your emergency lighting with realtime information



### LINK TO REPLACEMENT ITEM

In the event of a failed luminaire, a link to a replacement item is available.



### HISTORIC TEST RECORDS

Historic test records are held for each luminaire and can be viewed or downloaded.

For full details on how to manage the BLE Connect portal please refer to our Portal Guide.

Speak to the sales team for your copy.

01246 432325

BLECONNECT

Dashboard

CONNECTED SYSTEMS

Buildings

Testing Log

Reports

Buildings

NAME	LOCATION	TOTAL LUMINAIRES	COMPLIANCE	HEALTHY BATTERIES
Drake House	Sheffield	42	100%	100%
BLE HQ	Sheffield	50	100%	100%
Trial Clinic	Scarborough	34	100%	89%

## Why choose BLE Connect?



Made in Sheffield with over 56 years of experience, you can be sure of a reliable system that meets your legislative requirements and provides compliant reporting.

With no ongoing monthly or subscription fees you can be sure of a cost effective solution.



### Our Package



#### No Monthly Fees for Emergency Lighting

We'll get everything set up initially and then you're free to use the BLE Connect portal for Emergency Lighting along with any future updates.

**£0**



#### No Subscription Fees for Emergency Lighting

Access to the BLE Connect server to monitor Emergency Lighting is included for the first 10 years.

**£0**



#### Service Package

Our service packages are tailored to meet the individual needs of our customers. Contact our team to discuss what BLE can do for you.

**POA**

Use of the BLE Connect system to monitor our range of "Works With" Connect products is based on low monthly subscription rates dependant on data usage and the requirement for geolocation.

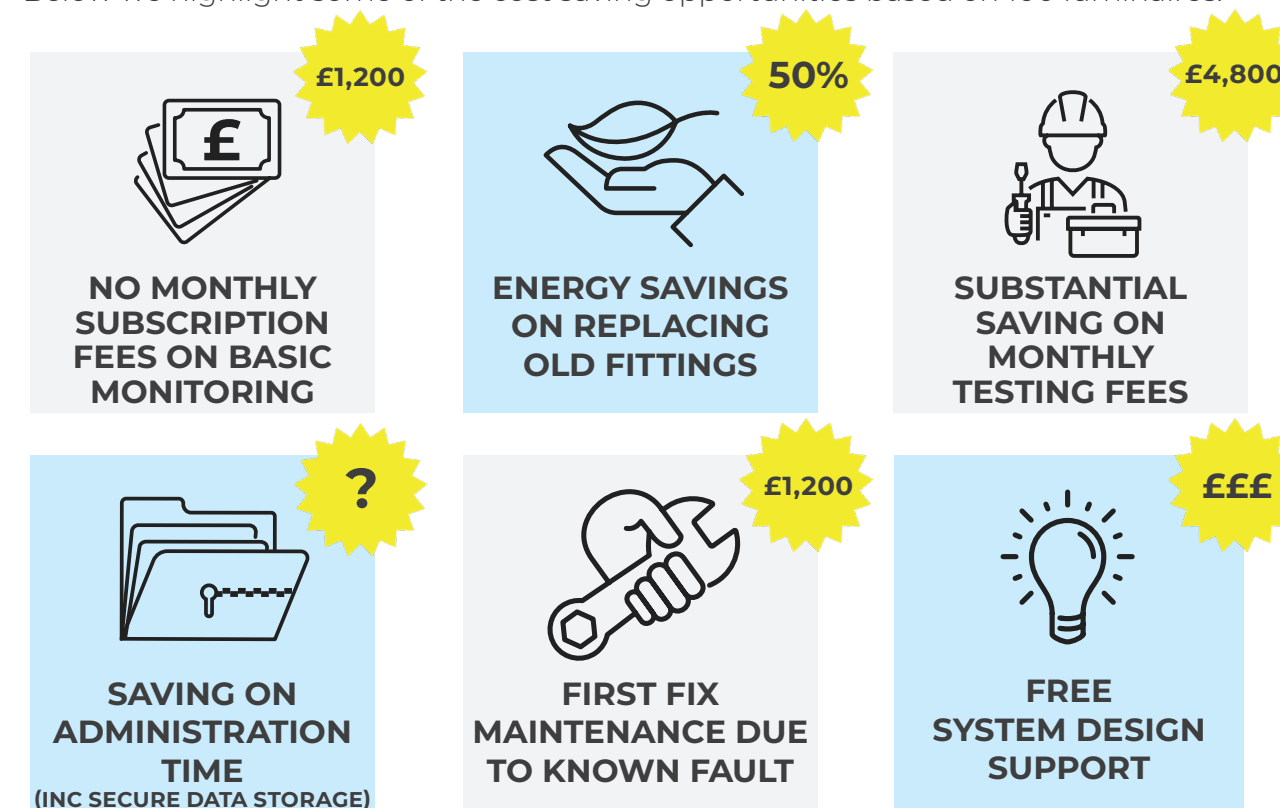
## What is the ROI on BLE Connect?

BLE Connect doesn't just offer a compliant and straightforward solution for the maintenance of emergency lighting, it also offers an opportunity for making substantial cost savings.

From having no monthly or annual subscription fees, through to saving on expensive professional electrician fees for monthly and annual testing, BLE Connect has an incredible return on investment.



Below we highlight some of the cost saving opportunities based on 100 luminaires.



### COST SAVING OVER FIVE YEARS BASED ON 100 EMERGENCY LUMINAIRES



**£7,200**

Annual Cost Saving



**£36,000**

5 Year Cost Saving



**24 Months**

Return on Investment



# The Best Mesh for IoT



Wirepas is the ultimate wireless connectivity software designed for industrial and commercial IoT deployments. With infinite scalability and ultra-reliable performance, Wirepas is built to never fail, ensuring seamless operation across your network.

Engineered for the lowest total cost of ownership, Wirepas creates its own independent infrastructure - no wires needed. Fully battery-operated, it allows you to mix low-latency, low-energy, mains, or battery-powered nodes, giving you complete control over your set-up.

Proven in millions of devices worldwide, Wirepas is the leading solution for building the most reliable IoT mesh network.

**Rather than create our own standalone or closed protocol, BLE Connect has partnered with Wirepas to leverage the most secure, self-healing mesh technology available. This collaboration ensures robust, reliable connectivity across our system, providing the highest level of security and performance.**



**SECURE, RELIABLE  
& SCALEABLE  
CONNECTIVITY**



**LOWEST  
TOTAL  
COST**



**THE BEST  
MESH  
FOR IOT**



## Which products are BLE Connect enabled?

So that we can ensure the security of our centrally monitored products, we only put BLE Connect into our Made in Britain range of products



Our range of BLE Connect products are detailed on the following pages.

**If your requirement is of a bespoke nature, speak to our team of experts to discuss where we can support requirements for BLE Connect compatibility.**

**CALL 01246 432325**





MILLHOUSES  
EMERGENCY  
BULKHEAD



CODE	DESCRIPTION
EL-115001-CT	MILLHOUSES Emergency Bulkhead - IP65 - Maintained/Non-maintained - LiFePO4 - BLE Connect Enabled

HOLLINSEND  
RECESSED EMERGENCY  
BULKHEAD



CODE	DESCRIPTION
EL-110404-BR-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - Brass - Prismatic Diffuser - MIB - BLE Connect Enabled
EL-110404-CH-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - Chrome - Prismatic Diffuser - MIB - BLE Connect Enabled
EL-110404-WH-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - White - Prismatic Diffuser - MIB - BLE Connect Enabled
EL-110408-BR-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - Brass - Opal Diffuser - MIB - BLE Connect Enabled
EL-110408-CH-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - Chrome - Opal Diffuser - MIB - BLE Connect Enabled
EL-110408-WH-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - White - Opal Diffuser - MIB - BLE Connect Enabled

STANNINGTON  
EMERGENCY TWIN SPOT



CODE	DESCRIPTION
EL-142250-CT	STANNINGTON LED Emergency Twin Spot - 4W - IP65 - LiFePO4 - BLE Connect Enabled

RICHMOND  
EMERGENCY DOWNLIGHT



CODE	DESCRIPTION
EL-152450-WH-CT	RICHMOND Emergency Downlight - IP20 - Non-Maintained - LiFePO4 - White - Dia 70mm - BLE Connect Enabled
EL-152450-BL-CT	RICHMOND Emergency Downlight - IP20 - Non-Maintained - LiFePO4 - Black - Dia 70mm - BLE Connect Enabled

BOWMAN  
EMERGENCY CONVERSION PACK



CODE	DESCRIPTION
EL-193651-CT	BOWMAN Emergency Conversion Pack for WESTWOOD Panel and RICHMOND Downlight - BLE Connect Enabled

THORNCLIFFE  
EMERGENCY  
EXIT BOX



CODE	DESCRIPTION
EL-131351-CT	THORNCLIFFE LED Emergency Exit Box - LiFePO4 - BLE Connect Enabled

Brass, Chrome and Brushed Chrome Bezels available

BINGHAM  
EMERGENCY HANGING  
EXIT SIGN



CODE	DESCRIPTION
EL-132001-BL-CT	BINGHAM Hanging Exit Sign - Including Arrow Legend - Black - LiFePO4 - MIB - BLE Connect Enabled
EL-132001-BR-CT	BINGHAM Hanging Exit Sign - Including Arrow Legend - Brass - LiFePO4 - MIB - BLE Connect Enabled
EL-132001-CH-CT	BINGHAM Hanging Exit Sign - Including Arrow Legend - Chrome - LiFePO4 - MIB - BLE Connect Enabled
EL-132001-WH-CT	BINGHAM Hanging Exit Sign - Including Arrow Legend - White - LiFePO4 - MIB - BLE Connect Enabled

PARKWOOD  
EMERGENCY  
EXIT SIGN



CODE	DESCRIPTION
EL-133804-BR-CT	PARKWOOD Recessed Exit Sign - Including Arrow Legend - Brass - LiFePO4 - MIB - BLE Connect Enabled
EL-133804-CH-CT	PARKWOOD Recessed Exit Sign - Including Arrow Legend - Chrome - LiFePO4 - MIB - BLE Connect Enabled
EL-133804-WH-CT	PARKWOOD Recessed Exit Sign - Including Arrow Legend - White - LiFePO4 - MIB - BLE Connect Enabled
EL-133804-BL-CT	PARKWOOD Recessed Exit Sign - Including Arrow Legend - Black - LiFePO4 - MIB - BLE Connect Enabled

ELLESMERE  
NON-CORROSIVE FITTING



CODE	DESCRIPTION
EL-172704-M3-CT	ELLESMERE Non-Corrosive Fitting - IP65 - LiFePO4 - 4 ft - Wattage Selectable - BLE Connect Enabled
EL-172705-M3-CT	ELLESMERE Non-Corrosive Fitting - IP65 - LiFePO4 - 5 ft - Wattage Selectable - BLE Connect Enabled
EL-172706-M3-CT	ELLESMERE Non-Corrosive Fitting - IP65 - LiFePO4 - 6 ft - Wattage Selectable - BLE Connect Enabled

BLE Connect Enabled Products

CHELSEA  
LOW PROFILE AMENITY LIGHT



CODE	DESCRIPTION
EL-121004-BR-M3-CT	CHELSEA Low Profile Amenity Light - IP20 - Opal Diffuser - Brass - LiFePO4 - BLE Connect Enabled
EL-121004-BR-M3-MW-CT	CHELSEA Low Profile Amenity Light - IP20 - Opal Diffuser - Brass - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-121004-CH-M3-CT	CHELSEA Low Profile Amenity Light - IP20 - Opal Diffuser - Chrome - LiFePO4 - BLE Connect Enabled
EL-121004-CH-M3-MW-CT	CHELSEA Low Profile Amenity Light - IP20 - Opal Diffuser - Chrome - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-121004-WH-M3-CT	CHELSEA Low Profile Amenity Light - IP20 - Opal Diffuser - White - LiFePO4 - BLE Connect Enabled
EL-121004-WH-M3-MW-CT	CHELSEA Low Profile Amenity Light - IP20 - Opal Diffuser - White - LiFePO4 - Microwave Sensor - BLE Connect Enabled

OXLEY  
CIRCULAR AMENITY LIGHT



CODE	DESCRIPTION
EL-120651-M3-CT	OXLEY Circular Bulkhead - IP54 - White - Opal Diffuser - LiFePO4 - BLE Connect Enabled
EL-120651-M3-MW-CT	OXLEY Circular Bulkhead - IP54 - White - Opal Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120651-M3-SD-CT	OXLEY Circular Bulkhead - IP54 - White - Opal Diffuser - LiFePO4 - Step Dim Microwave Sensor - BLE Connect Enabled

DORE  
DIECAST AMENITY LIGHT



CODE	DESCRIPTION
EL-120801-M3-CT	DORE Diecast Circular Eyelid Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - BLE Connect Enabled
EL-120801-M3-MW-CT	DORE Diecast Circular Eyelid Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120801-M3-DD-CT	DORE Diecast Circular Eyelid Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - Photocell - BLE Connect Enabled

FORGE  
GEAR TRAYS



CODE	DESCRIPTION
EL-193450-M3-CT	FORGE Gear Tray - 3 CCT - LiFePO4 - BLE Connect Enabled
EL-193450-M3-MW-CT	FORGE Gear Tray - 3 CCT - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-193450-M3-SD-CT	FORGE Gear Tray - 3 CCT - LiFePO4 - Step Dim Microwave Sensor - BLE Connect Enabled

ENDCLIFFE  
CIRCULAR AMENITY LIGHT



CODE	DESCRIPTION
EL-120701-WH-M3-CT	ENDCLIFFE Circular Amenity Light - IP65 - White - Opal Diffuser - LiFePO4 - BLE Connect Enabled
EL-120701-WH-M3-MW-CT	ENDCLIFFE Circular Amenity Light - IP65 - White - Opal Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120701-WH-M3-DD-CT	ENDCLIFFE Circular Amenity Light - IP65 - White - Opal Diffuser - LiFePO4 - Photocell - BLE Connect Enabled
EL-120701-BL-M3-CT	ENDCLIFFE Circular Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - BLE Connect Enabled
EL-120701-BL-M3-MW-CT	ENDCLIFFE Circular Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120701-BL-M3-DD-CT	ENDCLIFFE Circular Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - Photocell - BLE Connect Enabled
EL-120702-WH-M3-CT	ENDCLIFFE Circular Amenity Light - IP65 - White - Prismatic Diffuser - LiFePO4 - BLE Connect Enabled
EL-120702-WH-M3-MW-CT	ENDCLIFFE Circular Amenity Light - IP65 - White - Prismatic Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120702-WH-M3-DD-CT	ENDCLIFFE Circular Amenity Light - IP65 - White - Prismatic Diffuser - LiFePO4 - Photocell - BLE Connect Enabled
EL-120702-BL-M3-CT	ENDCLIFFE Circular Amenity Light - IP65 - Black - Prismatic Diffuser - LiFePO4 - BLE Connect Enabled
EL-120702-BL-M3-MW-CT	ENDCLIFFE Circular Amenity Light - IP65 - Black - Prismatic Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120702-BL-M3-DD-CT	ENDCLIFFE Circular Amenity Light - IP65 - Black - Prismatic Diffuser - LiFePO4 - Photocell - BLE Connect Enabled

WHIRLOW  
SQUARE AMENITY LIGHT

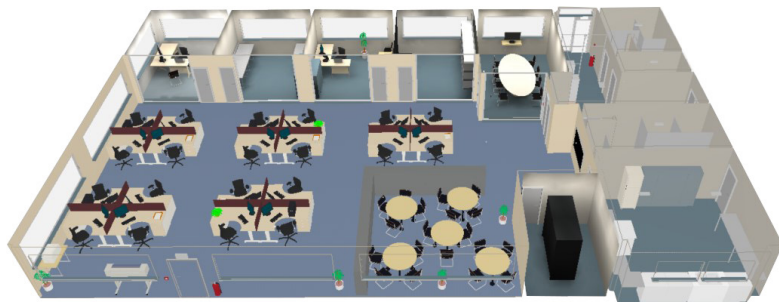


CODE	DESCRIPTION
EL-120901-WH-M3-CT	WHIRLOW Square Amenity Light - IP65 - White - Opal Diffuser - LiFePO4 - BLE Connect Enabled
EL-120901-WH-M3-MW-CT	WHIRLOW Square Amenity Light - IP65 - White - Opal Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120901-WH-M3-DD-CT	WHIRLOW Square Amenity Light - IP65 - White - Opal Diffuser - LiFePO4 - Photocell - BLE Connect Enabled
EL-120901-BL-M3-CT	WHIRLOW Square Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - BLE Connect Enabled
EL-120901-BL-M3-MW-CT	WHIRLOW Square Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120901-BL-M3-DD-CT	WHIRLOW Square Amenity Light - IP65 - Black - Opal Diffuser - LiFePO4 - Photocell - BLE Connect Enabled
EL-120902-WH-M3-CT	WHIRLOW Square Amenity Light - IP65 - White - Prismatic Diffuser - LiFePO4 - BLE Connect Enabled
EL-120902-WH-M3-MW-CT	WHIRLOW Square Amenity Light - IP65 - White - Prismatic Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120902-WH-M3-DD-CT	WHIRLOW Square Amenity Light - IP65 - White - Prismatic Diffuser - LiFePO4 - Photocell - BLE Connect Enabled
EL-120902-BL-M3-CT	WHIRLOW Square Amenity Light - IP65 - Black - Prismatic Diffuser - LiFePO4 - BLE Connect Enabled
EL-120902-BL-M3-MW-CT	WHIRLOW Square Amenity Light - IP65 - Black - Prismatic Diffuser - LiFePO4 - Microwave Sensor - BLE Connect Enabled
EL-120902-BL-M3-DD-CT	WHIRLOW Square Amenity Light - IP65 - Black - Prismatic Diffuser - LiFePO4 - Photocell - BLE Connect Enabled

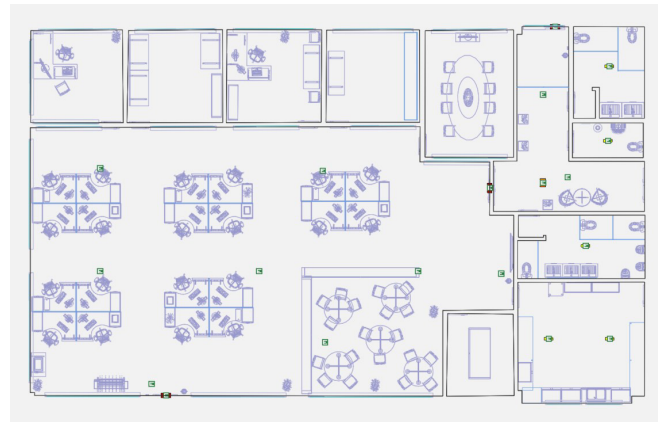


## See BLE Connect in operation at our Sheffield premises

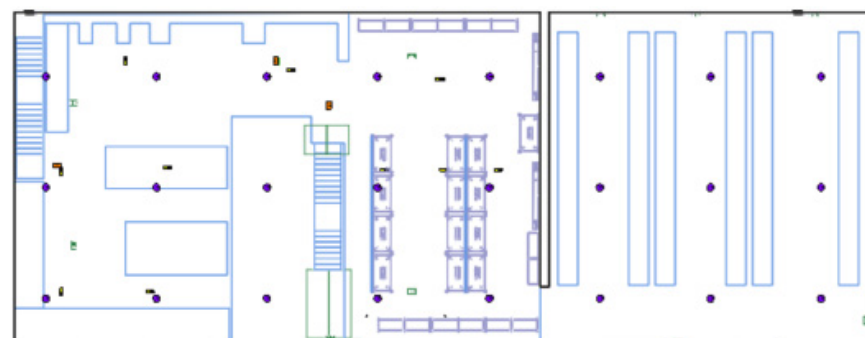
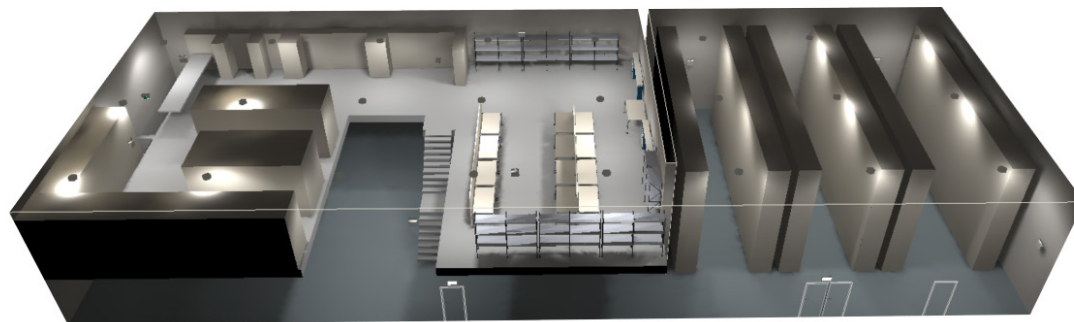
BLE Lighting & Power Ltd is a typical small/medium sized business with offices, warehousing and production areas. There are approximately 50 emergency luminaires across the site.



Offices



### BLE Lighting & Power Ltd, Sheffield



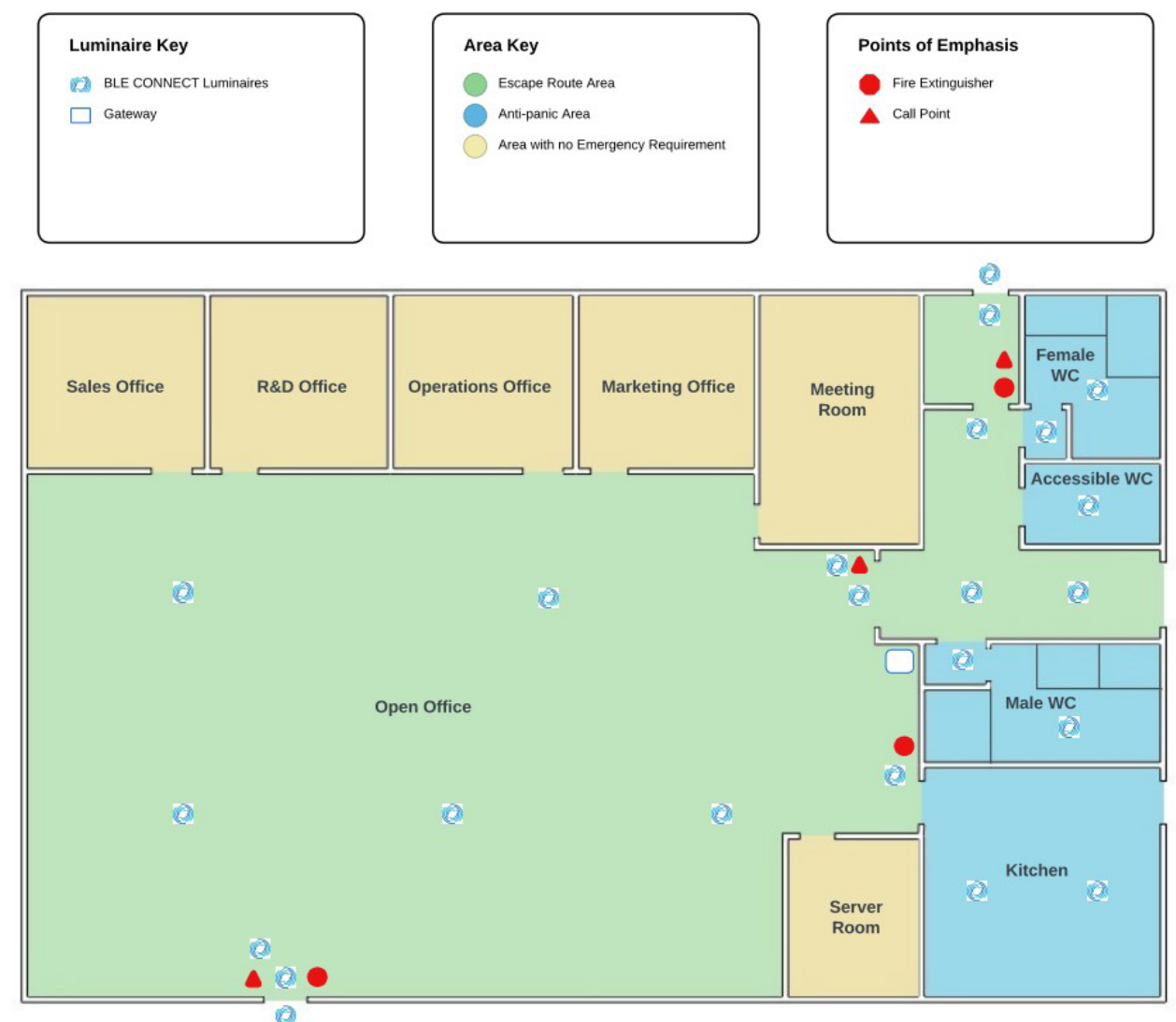
Warehousing and Production

### OUR FIRST LIVE SITE

Each emergency luminaire at BLE has been installed with BLE Connect and can be viewed on the BLE Connect online portal.

We now have the ability to instruct each luminaire or the full site to perform a test and can view the results instantly after the test is completed.

We have easy access to the status of each luminaire, the battery health and can easily see test logs and historic records.



Perform a test



Check luminaire status



Check battery health



View test log



Historic records



## Providing a digital backbone

WORKS WITH  CONNECT



## Monitor all aspects of your building or facility



ENVIRONMENTAL  
SENSOR

Detect things such as carbon monoxide, humidity and temperature changes.



ASSET  
TRACKING

Track expensive or life safety equipment such as fire extinguishers.



LEAK  
DETECTOR

For use near plumbing and HVAC systems across industry and social housing.

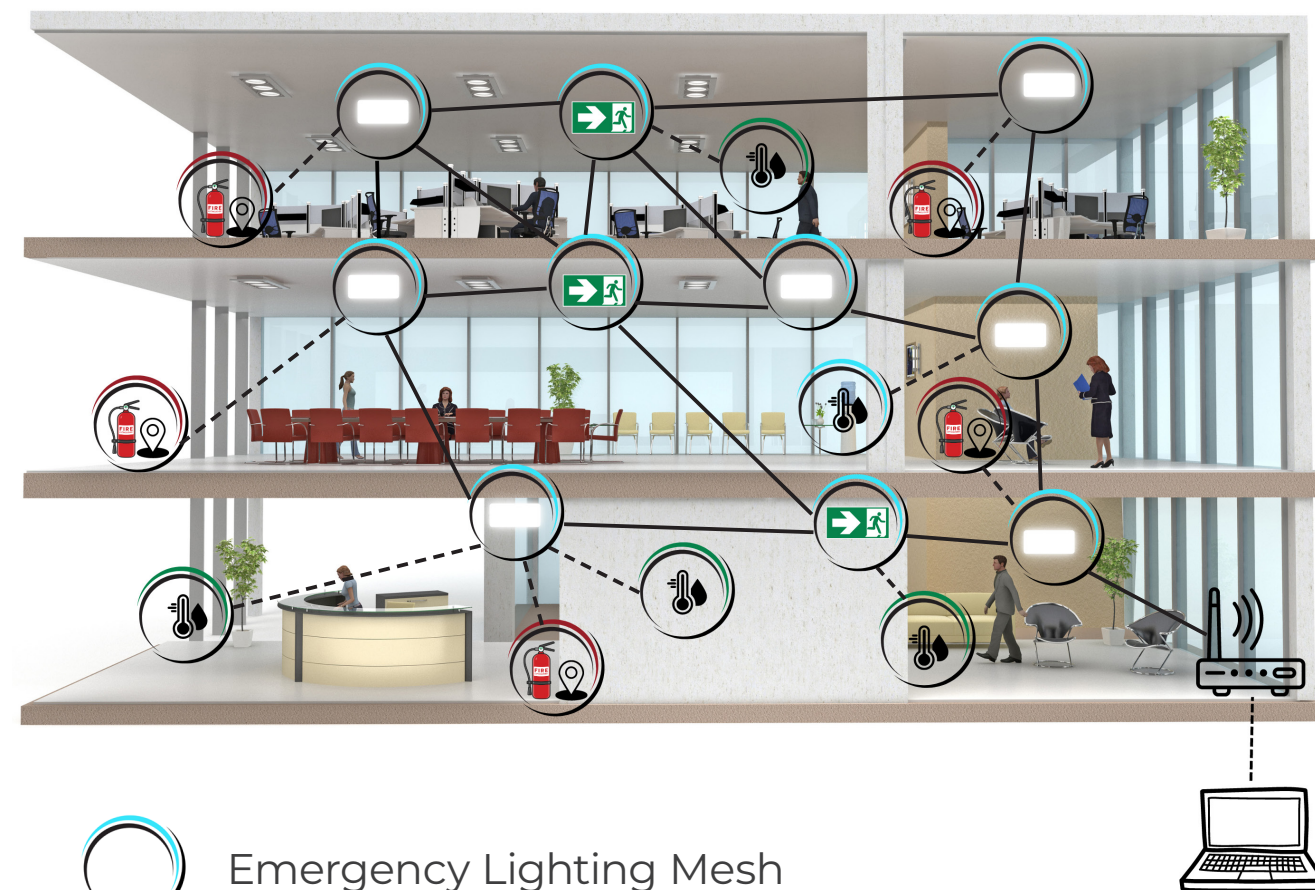


OCCUPANCY  
LEVEL  
SENSOR

A PIR sensor and optional Infrared sensor suitable for monitoring premises occupancy.

## Seamless mesh network coverage

A BLE Connect emergency lighting system provides the perfect backbone for integrating additional asset tags, sensors, and detectors, using the same Wirepas protocol for seamless mesh network coverage.



Emergency Lighting Mesh



Asset Tags



Environmental Sensors

The "Works With" BLE Connect range of IoT products come pre-configured to work on your existing safe, secure network accessed through the familiar BLE Connect portal.

**Expand your IoT system and enhance functionality without complex infrastructure changes.**



## What products are available?

### WORKS WITH CONNECT



#### SUITABLE LOCATIONS

- Sleeping accommodation
- Boiler / furnace rooms
- Plant rooms / lofts and cellars
- Server rooms / data centres
- Healthcare settings
- Warehouse / storage areas.

#### PRODUCT DATA

**Features:** temperature, humidity, illuminance, 3-axis acceleration, sound level, CO<sup>2</sup> (optional), barometric pressure (optional)  
**Power Source:** 4AA batteries or USB-C  
**Dimensions:** 74.2 x 74.2 x 28mm



#### SUITABLE LOCATIONS

- Expensive equipment
- Critical medical equipment
- Inventory
- Machinery / fork lift trucks
- Life safety equipment / fire extinguishers.

#### PRODUCT DATA

**Features:** 3-axis acceleration, geolocation  
**Power Source:** CR1025 battery (Nano), 2 x CR2032 batteries (Standard)  
**Dimensions:** 25.4 x 12.7 x 7.2mm (Nano), 67 x 33 x 9mm (Standard)



#### SUITABLE LOCATIONS

- Cellars and plant rooms
- Near plumbing
- Near HVAC systems
- Server rooms / data centres
- Kitchens and laundries.

#### PRODUCT DATA

**Features:** water leakage cable, contact sensor, accelerometer (optional)  
**Power Source:** 2.4Ah 3.6VDC Lithium AA battery  
**Dimensions:** 69.5 x 32.5 x 29mm



#### SUITABLE LOCATIONS

- Offices and Commercial
- Toilets
- Corridors and Hallways
- Warehouses / Car Parks
- Healthcare and Educational Buildings

#### PRODUCT DATA

**Features:** PIR sensor, Grid-eye 8x8 thermal camera (optional), 3D accelerometer (optional), 3D magnetometer (optional)  
**Power Source:** CR17505 battery  
**Dimensions:** 89.5 x 83.5 x 26mm

By integrating this range of tags and sensors into the BLE Connect system, users gain real-time monitoring and alerts for critical conditions across a facility. The centralised portal provides up-to-date data, ensuring rapid detection and response to safety concerns like carbon monoxide leaks, equipment misplacement, temperature/humidity fluctuations, or potential water damage. This comprehensive system enhances efficiency, minimises risks, and supports pro-active maintenance and management.

## Integration with central battery systems

The BLE Connect protocol is also capable of monitoring and reporting on central battery systems

### BATTERY MONITORING

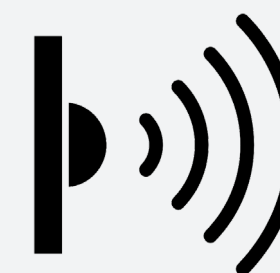


With BLE Connect, our specialised wireless sensors can be seamlessly integrated with various battery types to continuously monitor essential metrics such as voltage, current, and temperature. The data is transmitted to the BLE Connect portal.

Early identification of potential issues that could shorten battery life or lead to operational disruptions can be viewed in real time.

**Properly monitored and managed batteries are essential for providing clean, quality uninterrupted power.**

### INFRARED THERMAL SENSOR



Our thermal infrared sensor can detect and measure surface temperature without direct contact, which is crucial for identifying overheating and could indicate internal faults, excessive charge/discharge cycles, or environmental factors.

The sensor can also identify thermal hotspots or uneven temperature distribution which could indicate issues such as internal short circuits or imbalances.

**Non-contact temperature measurement allows for non-invasive monitoring of the system**



## Where can I use BLE Connect?

BLE Connect is a versatile and flexible system that can be used in any application, from a small office building to a large airport or multi-building application.

The luminaires on a BLE Connect system do not need wiring between them, as the wireless mesh allows them to make the connection. This makes BLE Connect particularly suitable for listed buildings where restrictions can make it difficult to add additional wiring. Luminaires in separate buildings, that are in close proximity to each other, form part of the same network giving whole site visibility.

For more information on how to configure your system, speak to our experienced team of sales engineers who can guide you through this process.



## About BLE Lighting & Power Ltd

### We offer a full turnkey solution



BLE Lighting & Power Ltd is a specialist in supplying and manufacturing emergency lighting and back-up power equipment. We are committed to delivering high quality products and services, and with over 56 years experience, we have the technical expertise and knowledge on industry and legislative standards to ensure that we are supplying you with a fully compliant product.

BLE Lighting & Power Ltd is able to utilise our 56 years industry experience and vast in-depth knowledge of the emergency lighting industry standards to advise and support you, ensuring you have high quality systems and products in place in case of an emergency situation. With the increased focus on safety equipment functionality and the importance of being able to evacuate buildings safely, here at BLE we aim to make your life easier and assist you in meeting all current legislation for emergency lighting. It is this attention to the finer details coupled with such a wide offering of emergency lighting and back-up power solutions which helps differentiate us from other suppliers.

At our production facility in Sheffield, we manufacture and assemble a range of Made in Britain lighting products and Inverters.



#### BLE Lighting & Power Ltd specialises in:

- Emergency Lighting
- Exit Signs
- Amenity Lighting
- Static Inverters
- Central Battery Units
- SLA Batteries



**BLE Lighting & Power Ltd**

Unit 3 Drake Business Park, Drake House Crescent,  
Sheffield, S20 7HT

Tel: 01246 432325 Email: [sales@blelighting.co.uk](mailto:sales@blelighting.co.uk)  
Web: [www.blelighting.co.uk](http://www.blelighting.co.uk)



**WATCH THE  
BLE CONNECT VIDEO**