



# Cucumber Lighting Controls



## Product range

# As cool as a Cucumber

**Why Cucumber Lighting Controls? Simply, our in-house R&D, manufacturing, and dedicated team redefine lighting control with a fresh, green, and straightforward approach. Essential for energy efficiency and user comfort, our creative solutions simplify control, promote sustainability, and elevate user experiences.**

With our investment in a new 10,000 ft<sup>2</sup> manufacturing facility in Milton Keynes, and our R&D facility in Welwyn Garden City, we are not just creating products; we are building a future of quality and reliability for our customers.

Every product is crafted with precision, backed by our dedicated in-house R&D team who ensure cutting-edge design, functionality, and durability. Our commitment to quality is more than a promise – it is guaranteed for seven years, so you can trust that our products are here to stay.

Our UK-based customer sales and support team is always ready to help, providing personalised service and solutions when you need them. When you choose Cucumber, you are choosing a brand that invests in the UK, stands by its products, and values your trust. As a team we have over 300 years of experience in lighting and lighting controls.

Visit our website [www.cucumberlc.co.uk](http://www.cucumberlc.co.uk), where you can register for updates on new product launches or contact us to schedule a hands-on demo.



**7-year warranty**  
Market-leading warranty for added peace of mind.



**Made in Britain**  
UK manufacturing using premium components with high specifications.



**DALI Alliance**  
Industry standard lighting control protocol.



**Independently tested**  
Products are independently tested by a UK Test House to relevant standards.

# Our products

## Cucumber app

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# Cucumber app

Our free, user-friendly app provides easy programming without specialist knowledge or equipment.



## Quick setup

Quick setup menu with easy to use predefined selections and favourites to reduce time for on-site programming.



## Full commissioning

Full commissioning menu for system mesh operation and end client ownership.



## Bluetooth®

Long range, reliable Bluetooth is used for networking and communication with the Cucumber app.



## Easy to update

Over the air updates (OTA) to the latest software versions.



## Secure user data

Client data is stored in the Cloud using Microsoft Azure servers based in the UK. Access is protected by two-factor authentication.



## Industry leading security

A unique 128-bit network and app key is established within the Cucumber network. This ensures secure communication between devices.



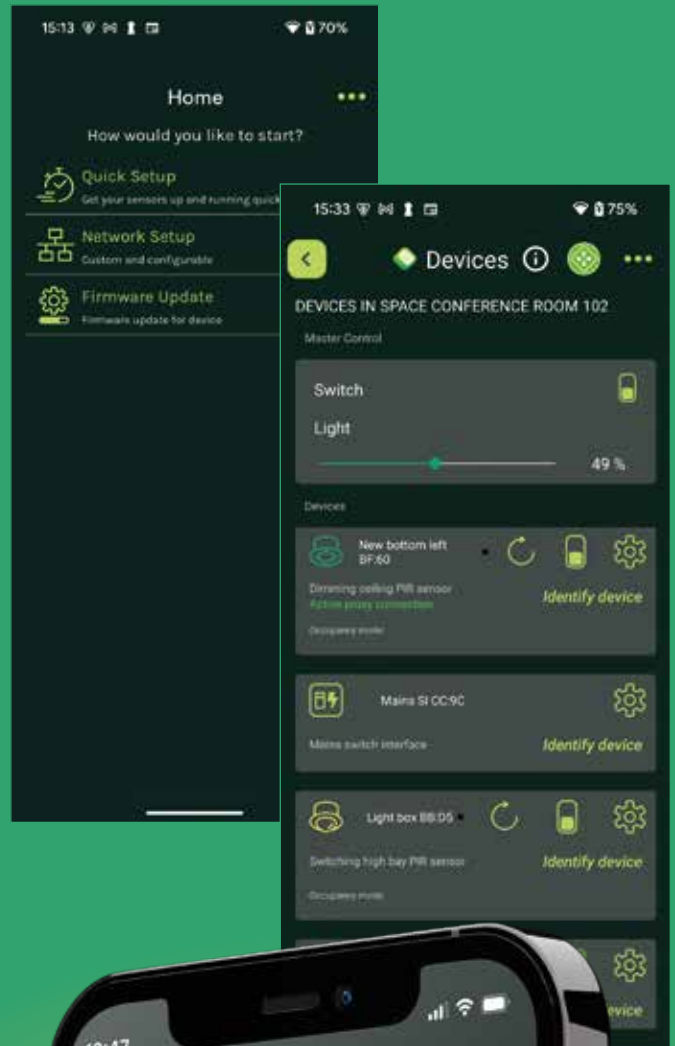
## UK developed and manufactured

Cucumber is a member of the Lighting Industry Association (LIA), is ISO Certified, and has proudly developed its app and all products in the UK.



## Free download

The Cucumber app is available for iOS and Android devices.



# Our sensors

Our unique product design and software mean our sensors cover a wide range of applications and are easy to select and specify.

## Bluetooth® as standard

- Sensors can be configured as standalone or they can be networked with other Cucumber devices using mesh communication.
- Enables programming through our free to use app.



## Switching sensors

- Absence or presence detection based on occupancy and ambient daylight levels.

## DALI Dimming sensors

- Absence or presence detection based on occupancy and ambient daylight levels.
- Allows manual and automatic control of luminaire light levels.
- Provides full dimming capability, including maintained illuminance (daylight linking), fade levels, and switch on/off light levels.

## Colour coded

- For easy identification: yellow for switching; green for dimming; blue for DALI powered.



## Modular construction

- 2-part modular construction assists a first and second fix installation if required.
- Quick interchange of sensor heads as environments change with limited disruption and waste.



## Large wiring compartment

- Our PIR sensors are simple to install with large wiring compartments and individual push fit terminal connections. Our DALI powered sensors have pluggable connectors.
- Dedicated earth terminals provide continuity to the luminaires.
- Universal voltage from 100VAC to 230VAC.



## Flexible mounting options

- One product design is suitable for both surface or flush mounting offering flexibility during installation (patented).
- BESA and Euro box fixings provide a universal fit.



# Ceiling sensors

Our Ceiling PIR sensors feature an innovative flat square lens, ultra-slim bezel, and IP65 options for optimal detection, aesthetics, and versatility in offices, education, and residential applications.

## Sensor functionality

- Light sensor mounted away from the detector lens for improved measurement of ambient light levels.
- Operates in presence or absence detection modes.
- Lux-switching.
- Master override function with run-down timer.
- Adjustable sensitivity options.

## Additional DALI dimming functionality

- DALI dimming sensor provides maintained illuminance (daylight linking).
- Fade and hold levels.

## SWITCHING

PIRSCR Range

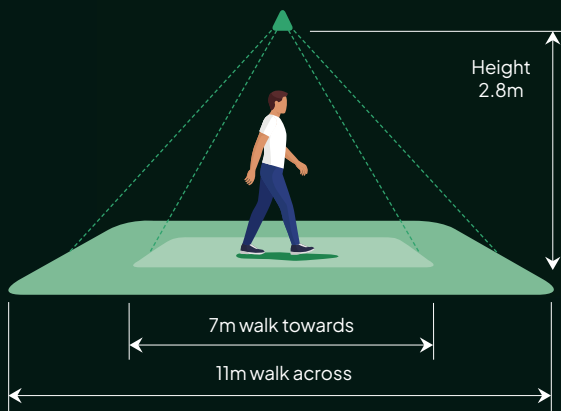
## DALI DIMMING

PIRDMCR Range

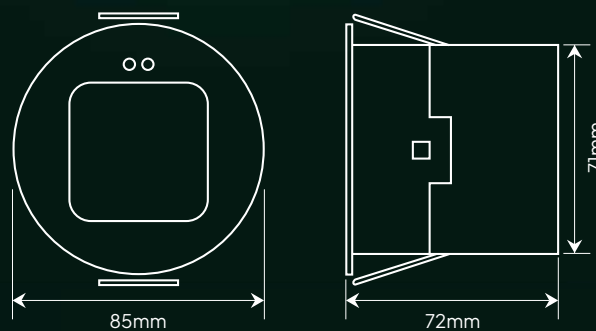


Weatherproof options available  
 ↑ IP 20  
 ↓ IP 65

## Detection range



## Dimensions



Ø 73mm cut-out for flush mounting

## Specifications

Please visit our website for full product specification

<b>Supply Voltage*</b>	100VAC to 230VAC	<b>IP Rating (flush mounted)</b>	Standard versions: IP20 IP versions: IP65
<b>Supply Frequency</b>	50/60Hz	<b>Compliance</b> 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive 2014/53/EU Radio Equipment Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive	
<b>Relay Max. Output Current</b>	6 Amps @ 230VAC		
<b>Terminal Capacity</b>	0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>		
<b>Time Out Period</b>	1 second to 240 minutes		
<b>Working Temperature</b>	-10 to +35°C		
<b>No of DALI Drivers**</b>	Maximum 20. Please refer to main datasheet		

Sensors also available in black



\* DALI powered versions also available (see page 13) \*\* DALI dimming sensor only.

# High Bay sensors

Our High Bay PIR sensors utilise a multi-pyro design for exceptional sensitivity and accuracy at various heights. Ideal for industrial units, warehousing, sports halls, and more. IP65 versions also available.

## Sensor functionality

- Light sensor mounted away from the detector lens for improved measurement of ambient light levels.
- Operates in presence or absence detection modes.
- Lux-switching.
- Master override function with run-down timer.
- Adjustable sensitivity options.
- Optional directional shields available (see page 21 for accessories).

## Additional DALI dimming functionality

- DALI dimming sensor provides maintained illuminance (daylight linking).
- Fade and hold levels.

## SWITCHING

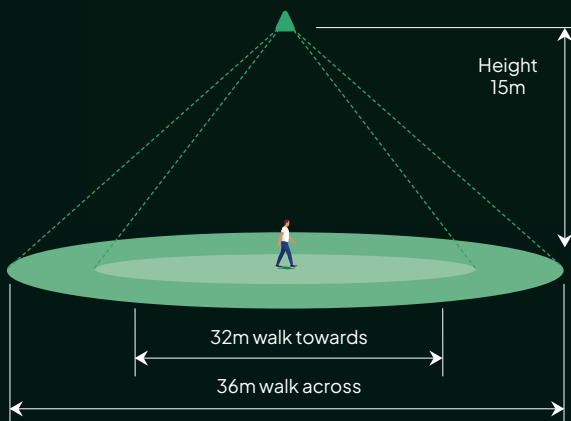
PIRSHBR Range

## DALI DIMMING

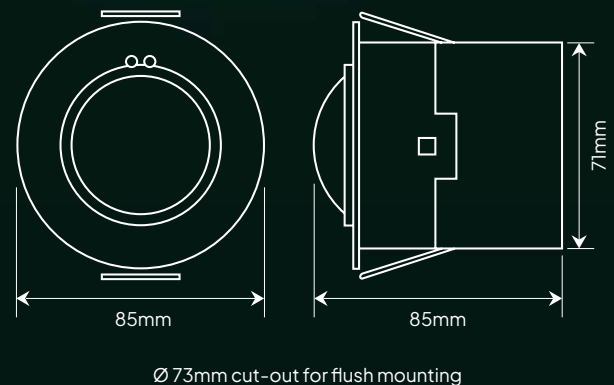
PIRDMHBR Range



## Detection range



## Dimensions



### Ceiling Product Codes

<b>PIRSCRW</b>	PIR Switching Ceiling Sensor Recessed White RAL9010
<b>PIRSCRB</b>	PIR Switching Ceiling Sensor Recessed Black RAL9005
<b>PIRSCRWIP</b>	PIR Switching Ceiling Sensor Recessed White RAL9010 IP65
<b>PIRSCRBIP</b>	PIR Switching Ceiling Sensor Recessed Black RAL9005 IP65
<b>PIRDMCRW</b>	PIR DALI Dimming Ceiling Sensor Recessed White RAL9010
<b>PIRDMCRB</b>	PIR DALI Dimming Ceiling Sensor Recessed Black RAL9005
<b>PIRDMCRWIP</b>	PIR DALI Dimming Ceiling Sensor Recessed White RAL9010 IP65
<b>PIRDMCRBIP</b>	PIR DALI Dimming Ceiling Sensor Recessed Black RAL9005 IP65

### High Bay Product Codes

<b>PIRSHBRW</b>	PIR Switching High Bay Sensor Recessed White RAL9010
<b>PIRSHBRB</b>	PIR Switching High Bay Sensor Recessed Black RAL9005
<b>PIRSHBRWIP</b>	PIR Switching High Bay Sensor Recessed White RAL9010 IP65
<b>PIRSHBRBIP</b>	PIR Switching High Bay Sensor Recessed Black RAL9005 IP65
<b>PIRDMHBRW</b>	PIR DALI Dimming High Bay Sensor Recessed White RAL9010
<b>PIRDMHBRB</b>	PIR DALI Dimming High Bay Sensor Recessed Black RAL9005
<b>PIRDMHBRWIP</b>	PIR DALI Dimming High Bay Sensor Recessed White RAL9010 IP65
<b>PIRDMHBRBIP</b>	PIR DALI Dimming High Bay Sensor Recessed Black RAL9005 IP65

See page 21 for accessories.

# Microwave sensors

Cucumber Microwave (or radar/HF) sensors work on the reliable 24GHz (K frequency band) and feature a learning capability to reduce false triggers. They are ideal for large open spaces, such as corridors and halls.

## Reliable performance

- Choosing the right frequency is essential to avoid interference. C and X bands overlap with Wi-Fi frequencies, leading to potential instability. In contrast, our Microwave sensors use the 24 GHz (K-band frequency) which offers superior reliability and market-leading performance.



## Tamperproof

- A fixed head ensures the sensor cannot be vandalised or have its detection pattern detrimentally altered.



## Sensor learning

- Groundbreaking learning mode allows the sensor to adapt to its environment, optimising detection, enhancing energy saving and reducing false triggers.



## Industry leading detection

- Intelligent signal analysis detects movement effectively. Combined with high-quality components, it offers a detection range of up to 34 by 6 metres in corridor applications.
- This capability reduces the number of sensors needed and makes it easier to install sensors in optimal locations, even when conditions are challenging.

**34 metres**

## Surface mount kit

- Our surface mount kit (sold separately, see page 21) allows rotational adjustment of the sensor head position.



## Specifications

Please visit our website for full product specification

<b>Supply Voltage*</b>	100VAC to 230VAC	<b>IP Rating (flush mounted)</b>	Standard versions: IP20	<b>Compliance</b> 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive 2014/53/EU Radio Equipment Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive
<b>Supply Frequency</b>	50/60Hz		IP versions: IP65	
<b>Relay Max. Output Current</b>	6 Amps @ 230VAC	<b>Microwave Frequency</b>	24GHz	
<b>Terminal Capacity</b>	0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>	<b>Microwave Safety</b>		
<b>Time Out Period</b>	1second to 240 minutes	The microwave radiation emitted by this product is extremely low power and complies with International Standard "IEEE C95.1-2019 Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic and Electromagnetic Fields, 0Hz to 300GHz."		
<b>Working Temperature</b>	-10 to +35°C			
<b>No of DALI Drivers**</b>	Maximum 20. Please refer to main datasheet			

\* DALI powered versions also available (see page 13) \*\* DALI dimming sensor only.

## Sensor functionality

- Light sensor mounted away from the detector lens for improved measurement of ambient light levels.
- Operates in presence or absence detection modes.
- Lux-switching.
- Master override function with run-down timer.
- Adjustable sensitivity options.

## Additional DALI dimming functionality

- DALI dimming sensor provides maintained illuminance (daylight linking).
- Fade and hold levels.

## SWITCHING

MWSCLR Range

## DALI DIMMING

MWDMCLR Range

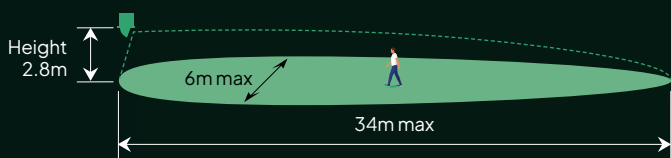


Weatherproof options available

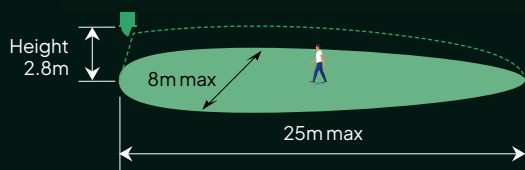
↑	IP 20
↓	IP 65

## Detection range

### Corridor application

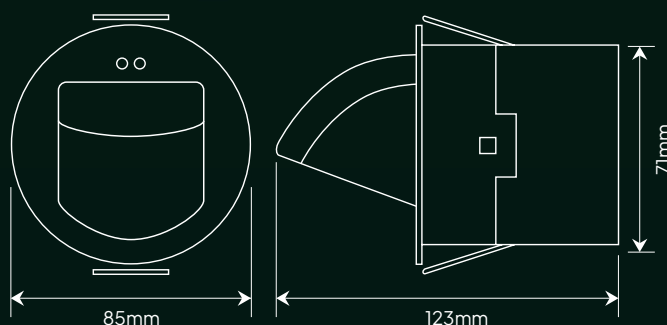


### Open area application



Distances shown with sensor set to optimum sensitivity

## Dimensions



Ø 73mm cut-out for flush mounting

For more information on our product range, or to download datasheets and installation guides visit [cucumberlc.co.uk](http://cucumberlc.co.uk)



### Microwave Product Codes

<b>MWSCLRW</b>	Microwave Switching Ceiling Sensor Recessed White RAL9010
<b>MWSCLRB</b>	Microwave Switching Ceiling Sensor Recessed Black RAL9005
<b>MWSCLRWIP</b>	Microwave Switching Ceiling Sensor Recessed White RAL9010 IP65
<b>MWSCLRBIP</b>	Microwave Switching Ceiling Sensor Recessed Black RAL9005 IP65
<b>MWDMCLRW</b>	Microwave DALI Dimming Ceiling Sensor Recessed White RAL9010
<b>MWDMCLRB</b>	Microwave DALI Dimming Ceiling Sensor Recessed Black RAL9005
<b>MWDMCLRWIP</b>	Microwave DALI Dimming Ceiling Sensor Recessed White RAL9010 IP65
<b>MWDMCLRBIP</b>	Microwave DALI Dimming Ceiling Sensor Recessed Black RAL9005 IP65

See page 21 for accessories.

# Lighting Control Modules

Cu-Connect lighting control modules (LCM) cover every lighting control application – from basic marshalling boxes to fully addressable, connected ecosystems. Available with 4, 8, or 12 outputs.

## Bluetooth® backbone

- Cu-Connect is built on the Bluetooth protocol, ensuring reliability, security, and easy system upgrades. This allows for new features to be added over time without major rewiring.



## Innovative connectivity

- Luminaires connect through our patent pending plug-and-socket system, providing a clear visual confirmation of proper engagement – reducing fault-finding time and decreasing arcing risk.
- Pre-wired plug-in detectors utilise a simple 2-core cable, reducing core counts and costs compared to traditional systems.
- Additional sensors can be integrated into the wider network without a direct physical connection to the LCM giving extended flexibility to suit any building or space layout.

## Flexible switching

- Manual switching is achieved using our wireless Switch Interface Unit (see page 18) giving the flexibility of connecting multiple and different styles of switches.



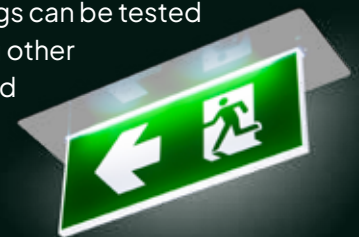
## Simple app setup

- Our free app makes commissioning intuitive. Automatic DALI addressing eliminates the need for manual input, while flexible grouping accommodates all common configurations.
- Pre-configured settings can be uploaded for a smooth site rollout.



## Built-In Emergency Testing

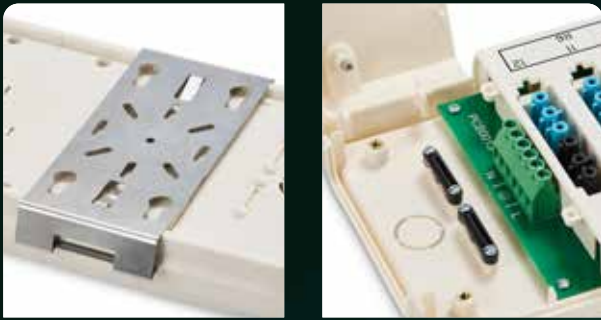
- A standard built-in emergency test relay means no extra permanent live connection is needed.
- Emergency fittings can be tested without affecting other outputs, triggered via the app or a wireless switch.



### Specifications

Please visit our website for full product specification

<b>Supply Voltage</b>	100VAC to 230VAC	<b>Compliance</b> 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive 2014/53/EU Radio Equipment Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive
<b>Max Load (Total for LCM)</b>	10 amps @ 230VAC	
<b>Max Load per Connector</b>	6 amps @ 230VAC	
<b>Max No of Sensors</b>	6	
<b>Max DALI Supply</b>	217 mA @ 13.8V	
<b>Working Temperature</b>	-10 to +35°C	

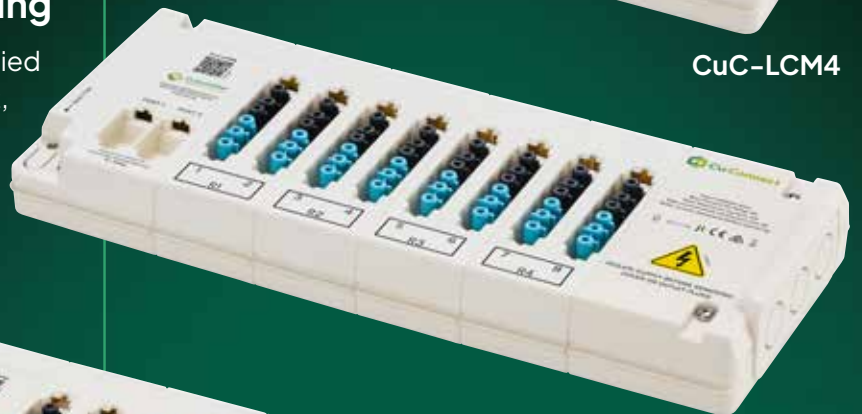


## Effortless installation and wiring

- Installation is straightforward. The supplied Metal fixing bracket(s) are mounted first, and the LCM securely clips into place.
- Only live, neutral, and earth connections are required.
- The terminals support up to 4mm<sup>2</sup> cable.
- No network cabling, permanent live feeds, or switch drops are necessary – reducing labour, material consumption, and complexity.
- Built-in smart button enables quick testing during installation and pre-commissioning, confirming luminaire connections and allowing for temporary lighting at a fixed dim level.



CuC-LCM4

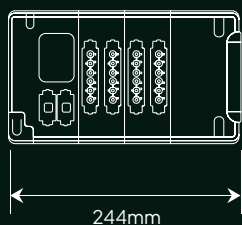


CuC-LCM8



CuC-LCM12

## Dimensions



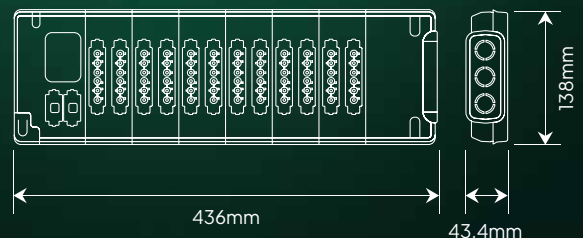
244mm

CuC-LCM4



340mm

CuC-LCM8



436mm

43.4mm

138mm

CuC-LCM12

For more information on our product range, or to download datasheets and installation guides visit [cucumberlc.co.uk](http://cucumberlc.co.uk)



### LCM Product Codes

**CuC-LCM4** Cu-Connect Lighting Control Module 4-way

**CuC-LCM8** Cu-Connect Lighting Control Module 8-way

**CuC-LCM12** Cu-Connect Lighting Control Module 12-way

# LCM sensors and leads

Our DALI-powered sensors offer simplified installation and wiring, along with the features of our mains-powered sensors.



**DALI DIMMING  
DALI POWERED  
PIRDALICR Range**

## Ceiling Product Codes

For sensor functionality see page 6

<b>PIRDALICRW</b>	PIR DALI Dimming Ceiling Sensor Recessed White RAL9010 - DALI Powered
<b>PIRDALICRWIP</b>	PIR DALI Dimming Ceiling Sensor Recessed White RAL9010 IP65 - DALI Powered
<b>PIRDALICRB</b>	PIR DALI Dimming Ceiling Sensor Recessed Black RAL9005 - DALI Powered
<b>PIRDALICRBIP</b>	PIR DALI Dimming Ceiling Sensor Recessed Black RAL9005 IP65 - DALI Powered



**DALI DIMMING  
DALI POWERED  
PIRDALIHBR Range**

## High Bay Product Codes

For sensor functionality see page 7

<b>PIRDALIHBRW</b>	PIR DALI Dimming High Bay Sensor Recessed White RAL9010 - DALI Powered
<b>PIRDALIHBRWIP</b>	PIR DALI Dimming High Bay Sensor Recessed White RAL9010 IP65 - DALI Powered
<b>PIRDALIHBRB</b>	PIR DALI Dimming High Bay Sensor Recessed Black RAL9005 - DALI Powered
<b>PIRDALIHBRBIP</b>	PIR DALI Dimming High Bay Sensor Recessed Black RAL9005 IP65 - DALI Powered



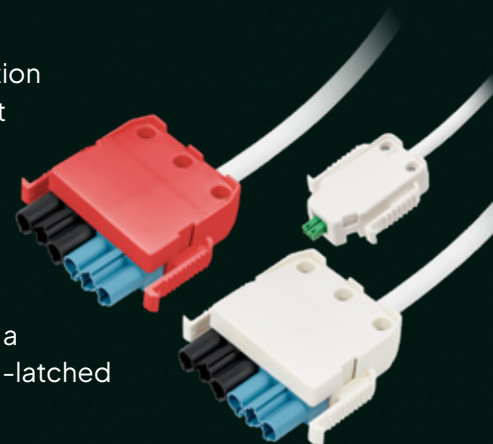
**DALI DIMMING  
DALI POWERED  
MWDALICLR Range**

## Microwave Product Codes

For sensor functionality see page 8

<b>MWDALICLRW</b>	Microwave DALI Dimming Ceiling Sensor Recessed White RAL9010 - DALI Powered
<b>MWDALICLRWIP</b>	Microwave DALI Dimming Ceiling Sensor Recessed White RAL9010 IP65 - DALI Powered
<b>MWDALICLRB</b>	Microwave DALI Dimming Ceiling Sensor Recessed Black RAL9005 - DALI Powered
<b>MWDALICLRBIP</b>	Microwave DALI Dimming Ceiling Sensor Recessed Black RAL9005 IP65 - DALI Powered

Designed in conjunction with the Cu-Connect LCMs, our pre-wired, Cca-rated, Low Smoke Zero Halogen (LSZH) luminaire and sensor leads provide a positive, reliable dual-latched connection.



## Leads Codes

### Pre-wired Luminaire Leads

<b>LL3C3MWW</b>	Luminaire lead 3-core 3m, white Cca LSZH 1mm <sup>2</sup> cable with white plug
<b>LL3C5MWW</b>	Luminaire lead 3-core 5m, white Cca LSZH 1mm <sup>2</sup> cable with white plug
<b>LL3C8MWW</b>	Luminaire lead 3-core 8m, white Cca LSZH 1mm <sup>2</sup> cable with white plug
<b>LL4C3MWR</b>	Luminaire lead 4-core 3m, white Cca LSZH 1mm <sup>2</sup> cable with red plug
<b>LL4C5MWR</b>	Luminaire lead 4-core 5m, white Cca LSZH 1mm <sup>2</sup> cable with red plug
<b>LL4C8MWR</b>	Luminaire lead 4-core 8m, white Cca LSZH 1mm <sup>2</sup> cable with red plug
<b>LL5C3MWW</b>	Luminaire lead 5-core 3m, white Cca LSZH 1mm <sup>2</sup> cable with white plug
<b>LL5C5MWW</b>	Luminaire lead 5-core 5m, white Cca LSZH 1mm <sup>2</sup> cable with white plug
<b>LL5C8MWW</b>	Luminaire lead 5-core 8m, white Cca LSZH 1mm <sup>2</sup> cable with white plug
<b>LL6C3MWR</b>	Luminaire lead 6-core 3m, white Cca LSZH 1mm <sup>2</sup> cable with red plug
<b>LL6C5MWR</b>	Luminaire lead 6-core 5m, white Cca LSZH 1mm <sup>2</sup> cable with red plug
<b>LL6C8MWR</b>	Luminaire lead 6-core 8m, white Cca LSZH 1mm <sup>2</sup> cable with red plug
<b>LL3C3MWR-PL</b>	Luminaire lead 3-core 3m, white Cca LSZH 1mm <sup>2</sup> cable with red plug
<b>LL3C5MWR-PL</b>	Luminaire lead 3-core 5m, white Cca LSZH 1mm <sup>2</sup> cable with red plug
<b>LL3C8MWR-PL</b>	Luminaire lead 3-core 8m, white Cca LSZH 1mm <sup>2</sup> cable with red plug

### Luminaire Plug Only (Supplied in kit form)

<b>KIT-LLPW</b>	Luminaire lead plug - White
<b>KIT-LLPR</b>	Luminaire lead plug - Red

### Pre-wired Sensor leads

<b>SL2C3MWW</b>	Sensor lead 2-core 3m, white Cca LSZH 0.75mm <sup>2</sup> cable with white plug
<b>SL2C5MWW</b>	Sensor lead 2-core 5m, white Cca LSZH 0.75mm <sup>2</sup> cable with white plug
<b>SL2C8MWW</b>	Sensor lead 2-core 8m, white Cca LSZH 0.75mm <sup>2</sup> cable with white plug

### Sensor Plug Only (Supplied in kit form)

<b>KIT-SLPW</b>	Sensor lead plug - White
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## Classroom Example: Algorithmic Graduated Dimming

Allows switching and graduated dimming across the three rows of luminaires. The luminaires nearest the teaching wall can also be controlled separately via the teaching wall switch. PIR's can be set in either absence or presence mode.

Utilising Bluetooth communication saves on significant wiring materials and associated costs between devices such as no cabling to and from wall switches.

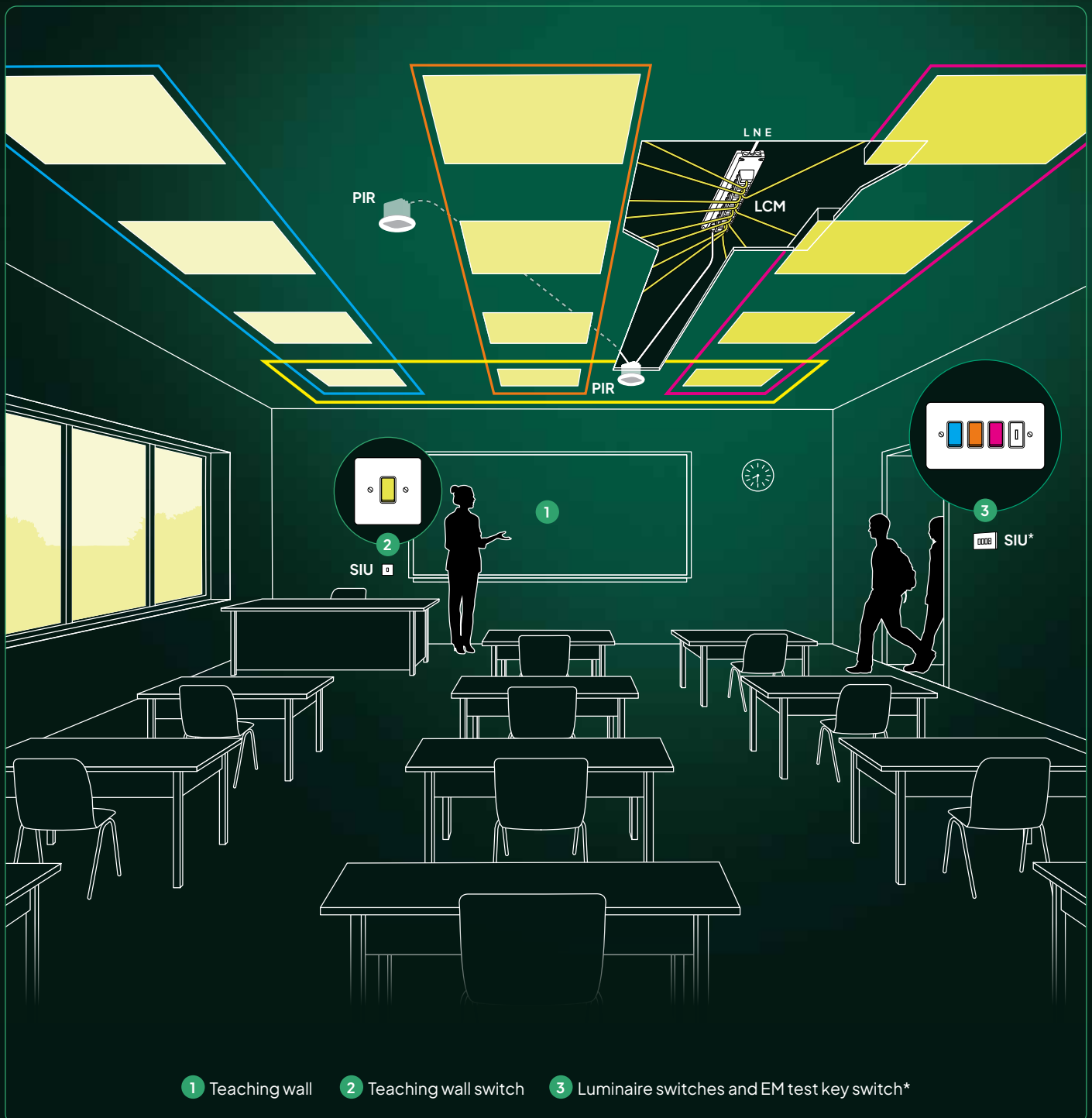
PIRDALI Dimming Ceiling sensors - DALI Powered (PIR)



Cu-Connect Lighting Control Module 12-way (LCM)

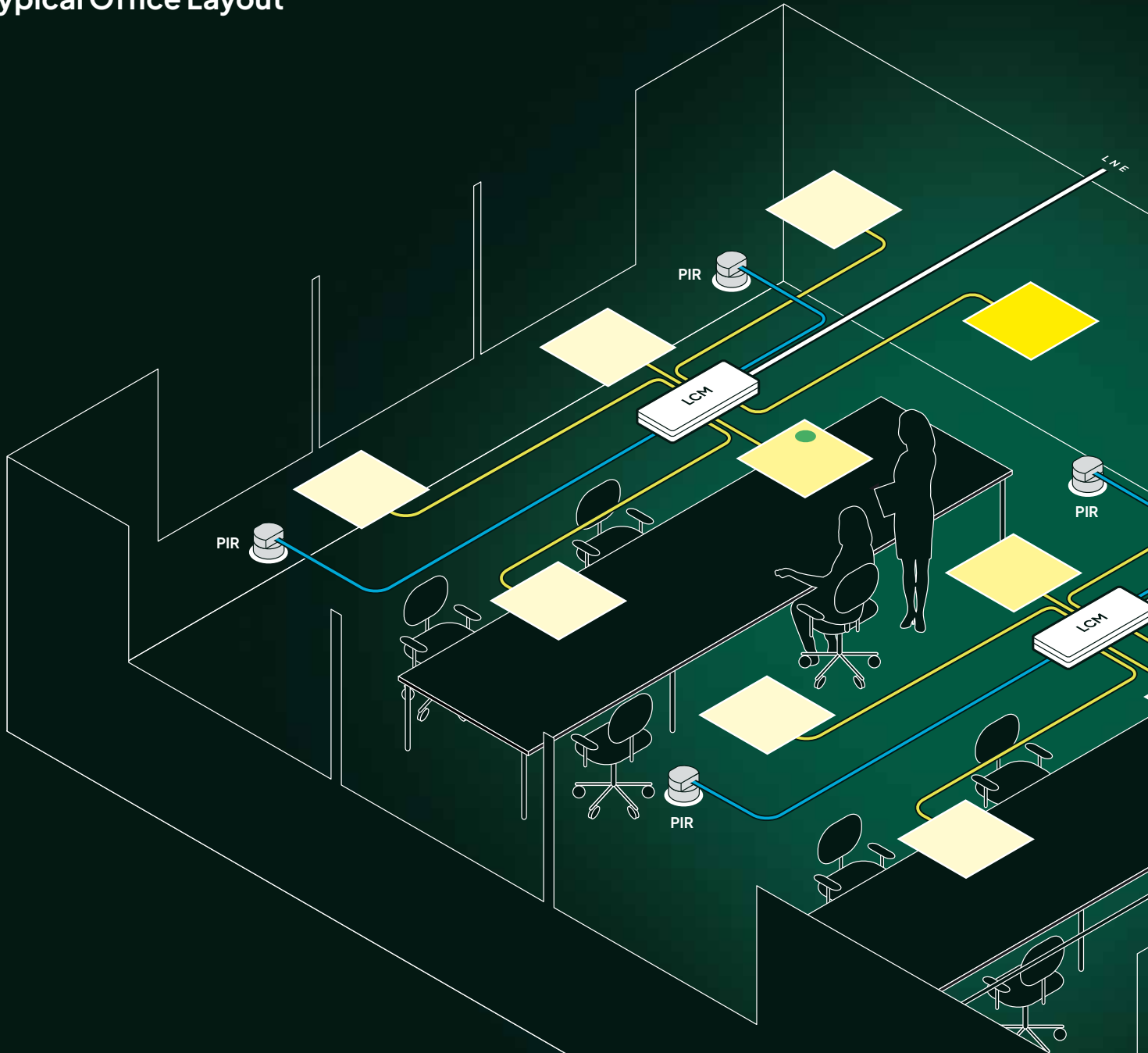


Switch Interface Units (SIU)



\* If using an EM test key switch please use Mains powered SIU not Battery powered SIU.

# Typical Office Layout



PIR DALI Dimming Ceiling sensors - DALI Powered (PIR)





Cu-Connect Lighting Control Module 8-way (LCM)




Switch Interface Units (SIU)




Cu-Card for user app remote control (Cu-Remote)

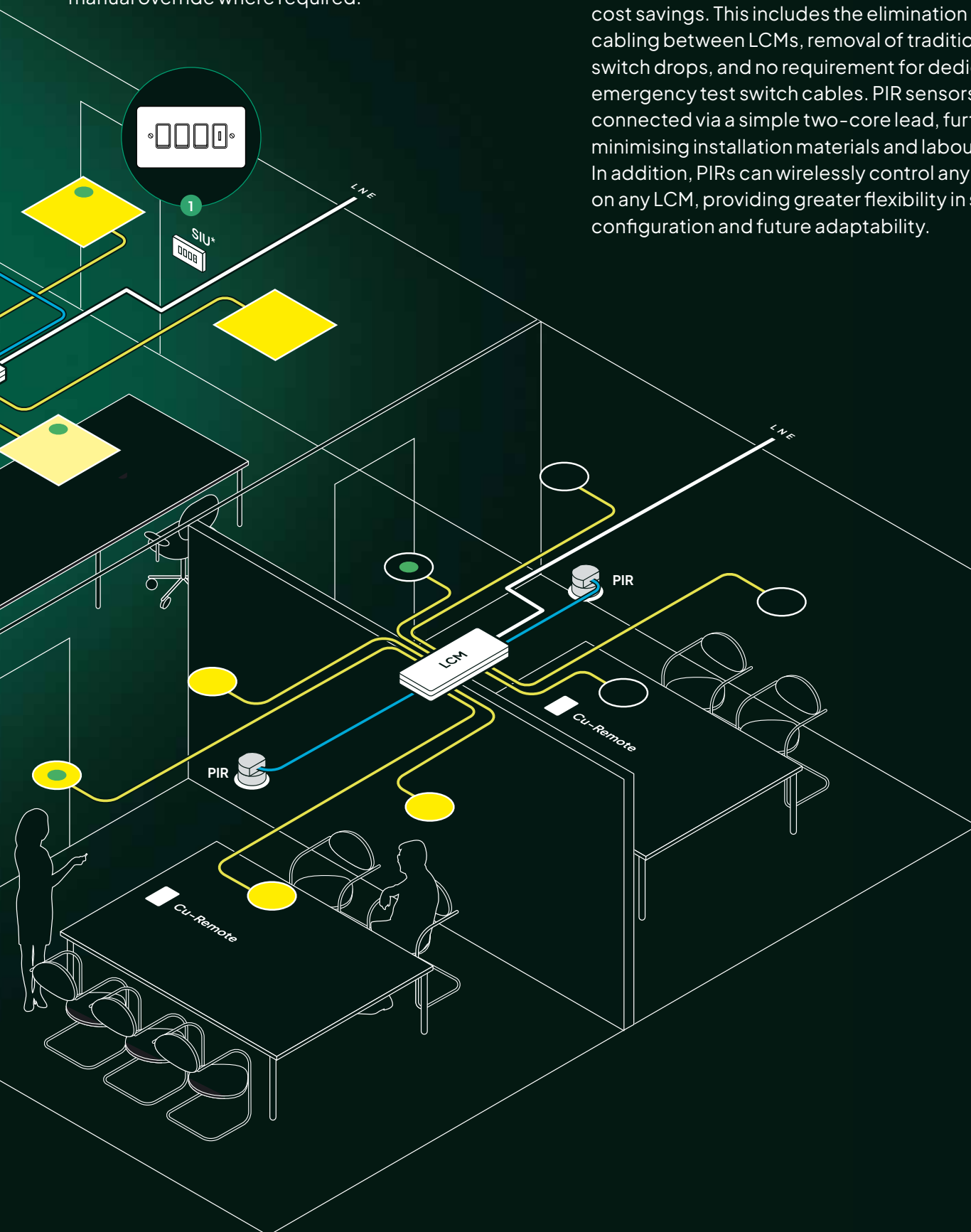


1 Luminaire switches and EM test key switch\*

Graduated dimming is provided throughout the floor plan, responding to natural daylight entering through the dual-aspect windows to maintain consistent light levels and optimise energy use. PIR sensors ensure that lighting operates only when spaces are occupied, reducing unnecessary consumption. Wall-mounted switches allow for manual override where required.

Meeting rooms also incorporate PIR sensors and are equipped with CU-Remote cards, enabling occupants to adjust lighting levels to suit their preferences and support a range of tasks and meeting formats.

Bluetooth communication significantly reduces wiring requirements, delivering both material and cost savings. This includes the elimination of data cabling between LCMs, removal of traditional switch drops, and no requirement for dedicated emergency test switch cables. PIR sensors are connected via a simple two-core lead, further minimising installation materials and labour. In addition, PIRs can wirelessly control any output on any LCM, providing greater flexibility in system configuration and future adaptability.



\* If using an EM test key switch please use Mains powered SIU not Battery powered SIU.

# Control nodes

Control nodes seamlessly integrate with any lighting fixture, transforming it into a wirelessly connected device.

## Available in 3 versions

- DALI dimming - DALI powered or mains powered, and DALI switching - mains powered.
- Enables programming through our free to use app.

## Long-range Bluetooth® communication

- Cutting-edge Bluetooth technology and robust software, delivers reliable performance, extended range, and enhanced security.
- Up to 30m wireless network range between devices.

## Time saving

- Saves on the wiring between devices, reducing installation time and associated costs.

## DALI Dimming nodes

- Allows manual and automatic control of luminaire light levels.
- Provides full dimming capability, including maintained illuminance (daylight linking), fade levels, and switch on/off light levels.

## Additional specifications

DALI Dimming - DALI powered

- Nodes are individually configurable, supporting switching, dimming and scene recall functions.

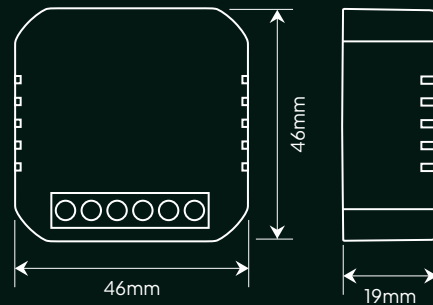
DALI Dimming - Mains powered

- Five inputs for use with mains powered DALI dimming drivers.

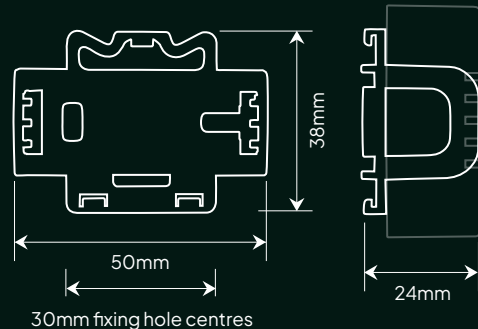
Switching - Mains powered

- 2 amp relay @ 230VAC capability suitable for switching lighting and non lighting loads.

## Dimensions



Bracket can be clipped on to 35mm DIN rail



Specifications		Please visit our website for full product specification	
	CN-DM-DALI	CN-DM-230V	CN-SW-230V
Supply Voltage	Via DALI PSU (9.5VDC to 22.5VDC)	100VAC to 230VAC	100VAC to 230VAC
Supply Frequency	-	50/60Hz	50/60Hz
Node to Sensor Range	30m	30m	30m
Terminal Capacity	0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>	0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>	0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>
Working Temperature	-10 to +35°C	-10 to +35°C	-10 to +35°C
Circuit Protection	N/A	≤10A MCB Type C	≤10A MCB Type C
Compliance	2014/35/EU Low Voltage Directive, 2014/30/EU Electromagnetic Compatibility Directive, 2014/53/EU Radio Equipment Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive		



**DALI Dimming  
DALI Powered**  
CN-DM-DALI



**DALI Dimming  
Mains Powered**  
CN-DM-230V



**Switching  
Mains Powered**  
CN-SW-230V



# Switch interface units

Seamlessly connect switches to our range of sensors.

## Mains or battery

- The battery option is particularly useful for challenging wiring locations such as glass partitions or listed buildings.

## Bluetooth® as standard

- Bluetooth wireless communication between devices allows groups of sensors and switches\* to work together in a network. This increases flexibility to meet any building requirement.
- Utilising Bluetooth technology the switch(es) can be programmed via our free to use app to different configurations depending on the application, providing a futureproof solution.

## Long range

- The Switch Interface Unit can be positioned up to 30m away (line of sight) from the nearest sensor.
- The unit can also help 'relay' Bluetooth messages between other products.

## Flexibility

- Customers have the flexibility to connect different switch types depending on the style and design requirements of their installation (Latching switches to be used in conjunction with SW-IU-230V only).

## Alarm integration

- Lights can be activated to full output if the fire alarm is triggered using a volt-free contact between the fire alarm system and Switch Interface Unit (SW-IU-230V only).

## Compact design

- Compact housing ensures the unit can be fitted into a wide number of applications.

## Mains powered

SW-IU-230V



## Battery powered

SW-IU-BATT  
Shown with bracket



\* when connected to Switch Interface Unit.

## Specifications

Please visit our website for full product specification

	SW-IU-230V	SW-IU-BATT
Supply Voltage	100VAC to 230VAC	3VDC (CR2450 Battery)
Supply Frequency	50/60Hz	-
Input current	400uA (i.e. 400 microamps / 0.4 milliamps)	-
Switch to Sensor Range	30m	30m
Max Switch Cabling Length	50m	15m
Terminal Capacity	0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>	0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>
Working Temperature	-10 to +35°C	-10 to +35°C
Circuit Protection	≤10A MCB Type C	-
Compliance	2014/35/EU Low Voltage Directive, 2014/30/EU Electromagnetic Compatibility Directive, 2014/53/EU Radio Equipment Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive	

## Additional specifications

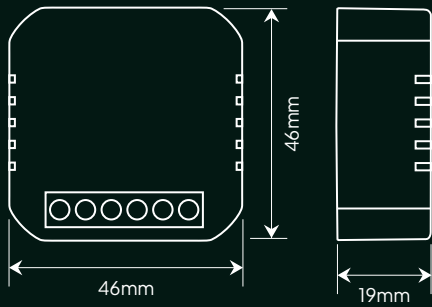
### Mains version

- 5 Inputs for momentary push to make switches.
- Non isolated Mains Power Supply Unit, 230V.

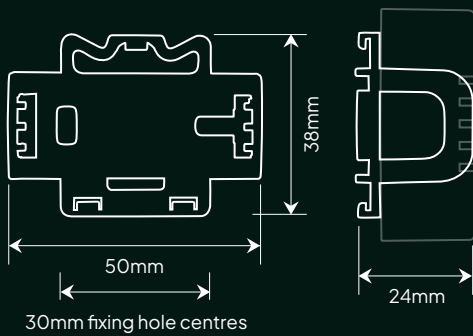
### Battery version

- 5 Inputs for momentary push to make switches (SELV).
- 1 Coin cell CR2450.
- Battery life is limited by its lifespan (typically 10 years).
- Battery life shown in the app.

## Dimensions



Bracket can be clipped on to 35mm DIN rail



# Cu-Remote

**Our new sustainable bamboo NFC card launches a dedicated lighting control app, instantly turning any smartphone into a temporary lighting remote control with manual switching and dimming functionality.**

## No need for dedicated handsets

- Control your lights instantly using end users smart device.
- Save time and frustration – lighting control is always available when you need it.

## Quick, seamless and intuitive

- Simply tap the NFC card to launch a dedicated lighting control app – anyone can adjust the lighting in seconds without setup or login hassles.

## Controlled and secure access

- Access is temporary, controlled and secure.
- Ensures only authorised users can adjust lighting keeping your environment safe and managed.

## Cutting-edge NFC technology

- NFC (Near Field Communication) is a short-range wireless technology that allows two electronic devices to communicate when they are within a few centimetres of each other.
- Does not require an internet connection.



### Cu-Card Product Code

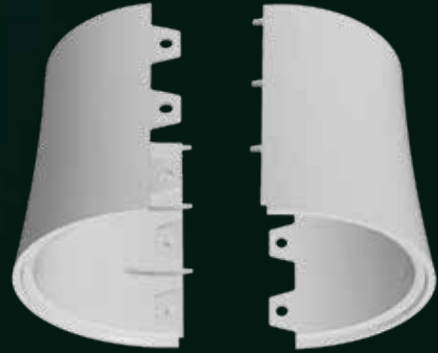
Cu-Card-RM    Cu-Card for user app remote control



# Sensor accessories

## Surface mount sleeves

Improve the aesthetics of the sensors when surface mounted.



### Product Codes

<b>SMSLW</b>	Surface Mount Sleeves - White
<b>SMSLB</b>	Surface Mount Sleeves - Black

## High Bay directional shield

Our High Bay shields allow you to control the detection pattern in areas such as aisle and racking applications (patented).



### Product Codes

<b>HBSW</b>	Directional Shield - White
<b>HBSB</b>	Directional Shield - Black

## Microwave surface mount kit

Provides rotational adjustment for the Microwave sensor head position.



### Product Codes

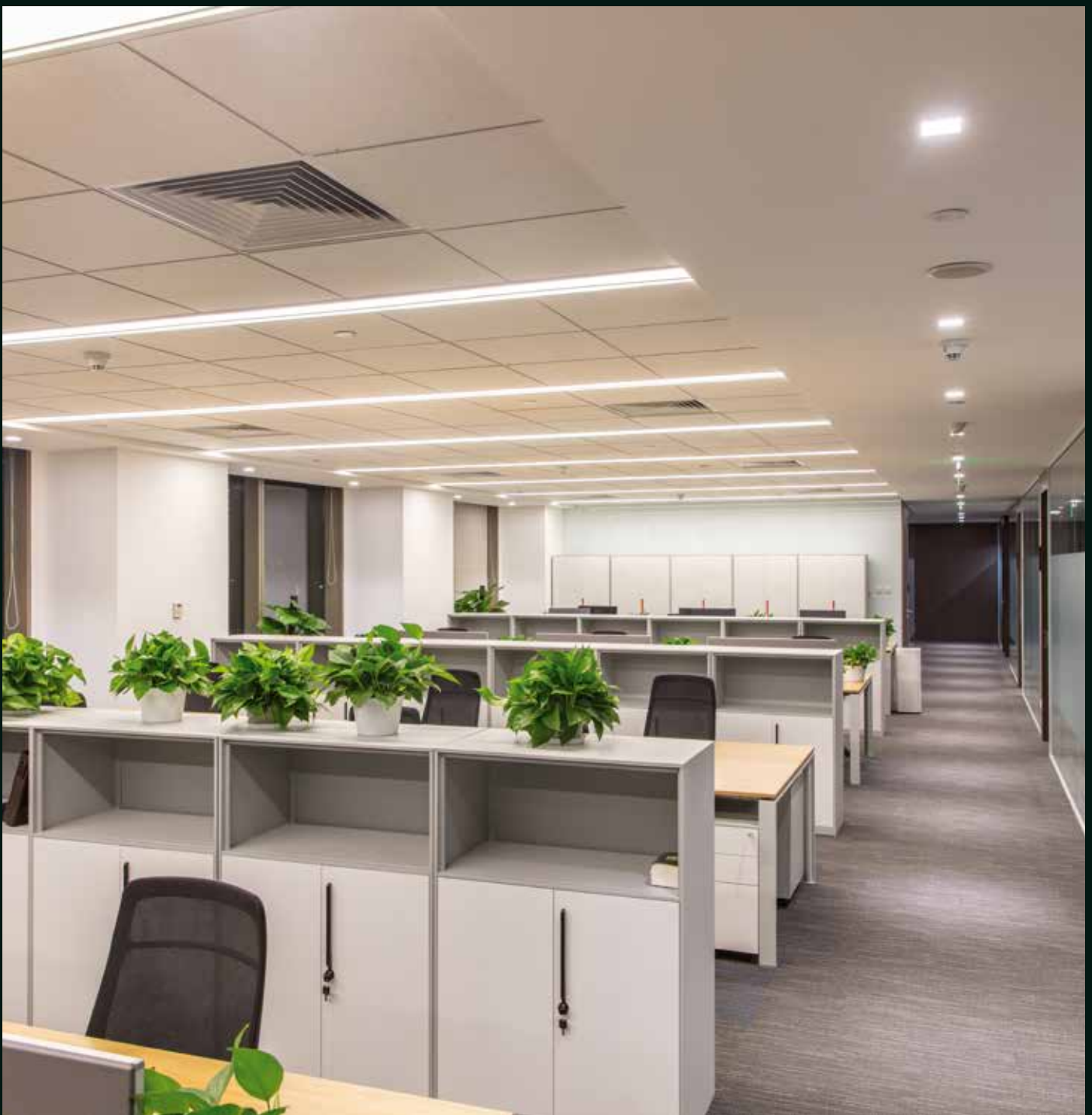
<b>SMKW</b>	Surface Mount Kit - White
<b>SMKB</b>	Surface Mount Kit - Black

# Why Use Us?

**At Cucumber, our goal is to offer simple, innovative, and scalable products that empower our customers. We sell lighting control solutions that give customers full control.**

## **Simple design process**

Unlike many systems burdened with excessive SKUs and redundant components, the Cucumber Lighting Controls range is deliberately lean. A single, universal LCM works across all applications, and many products share interchangeable parts, making specification and stocking straightforward. This simplifies the design process and reduces unnecessary complexity from the outset. We offer a free design service using the Bluebeam platform.





## Easy-to-install products

Installation has been rethought from the ground up. By removing the need for data cabling between devices and incorporating push-fit terminals, modular design, and large, installer-friendly connectors, Cucumber Lighting Controls drastically reduces on-site wiring time and material costs.

Every design detail is focused on simplicity, speed, and reliability – making installation easier, more efficient, and less error-prone.

Every product in our range comes Bluetooth Mesh-enabled as standard, making wireless networking simple and accessible. For installers and building managers, this unlocks seamless communication between devices without the need for additional gateways or infrastructure.

## Intuitive app programming

With an intuitive, feature-rich app, systems can be configured directly by the installer or end user – without external intervention. Quick setup tools make setup fast and straightforward, creating a smarter, more efficient commissioning process that reduces costs and gives users genuine ownership over their installations.

## Commissioning

We have worked to turn the traditional commissioning model on its head. Systems can be configured directly by the installer or end user, without the need for specialist engineers, scheduled site visits, or costly support.

While remote support is available and our team will always be on hand to help if needed, the system is designed to be self-sufficient, giving users the confidence and capability to manage their own installations.

## Market-leading warranty and compliances

We offer a 7-year warranty on all our products, which are Made in Britain certified and independently tested in the UK. As members of the Lighting Industry Association (LIA) and the DALI Alliance, we meet the highest compliance standards. We are also Bluetooth SIG listed, and hold ISO 9001 and ISO 14001 certifications, with our QMS verified through LIA membership.





Scan here  
for more  
details on  
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