

Casambi Wireless Network Detectors



A Smart World Needs a Smart Sensor

CP Electronics Wireless Mesh Network Philosophy.

In a world of advanced technology and smart connectivity, there is a growing demand for equally advanced lighting control solutions. With an investment of twice the industry average into R&D, uncompromising quality and excellent service, CP Electronics is best placed to deliver world-class innovative products that can meet the most demanding application need.

CP Electronics have been offering wireless mesh lighting control since 2010 in large scale installations across a wide range of sectors. As a leading manufacturer in lighting controls, we offer a fully featured solution above and beyond the lighting control systems currently available.

We not only understand the benefits and application of wireless systems but also the needs of installers and end users of general lighting controls.

We are ideally placed to help designers and end users plan their projects and take advantage of the growing need for connectivity with smart technology.

**Controlling any light source,
any building, any space.**



CP Electronics Wireless Projects



Office: Aurora Office Building



Education: National College of High Speed Rail



Hospitality: Bluebell Park



Healthcare: Liverpool Heart and Chest Hospital

Effortless Connectivity

CP Electronics sensing capability meets Casambi's smart wireless technology.

Casambi Technology

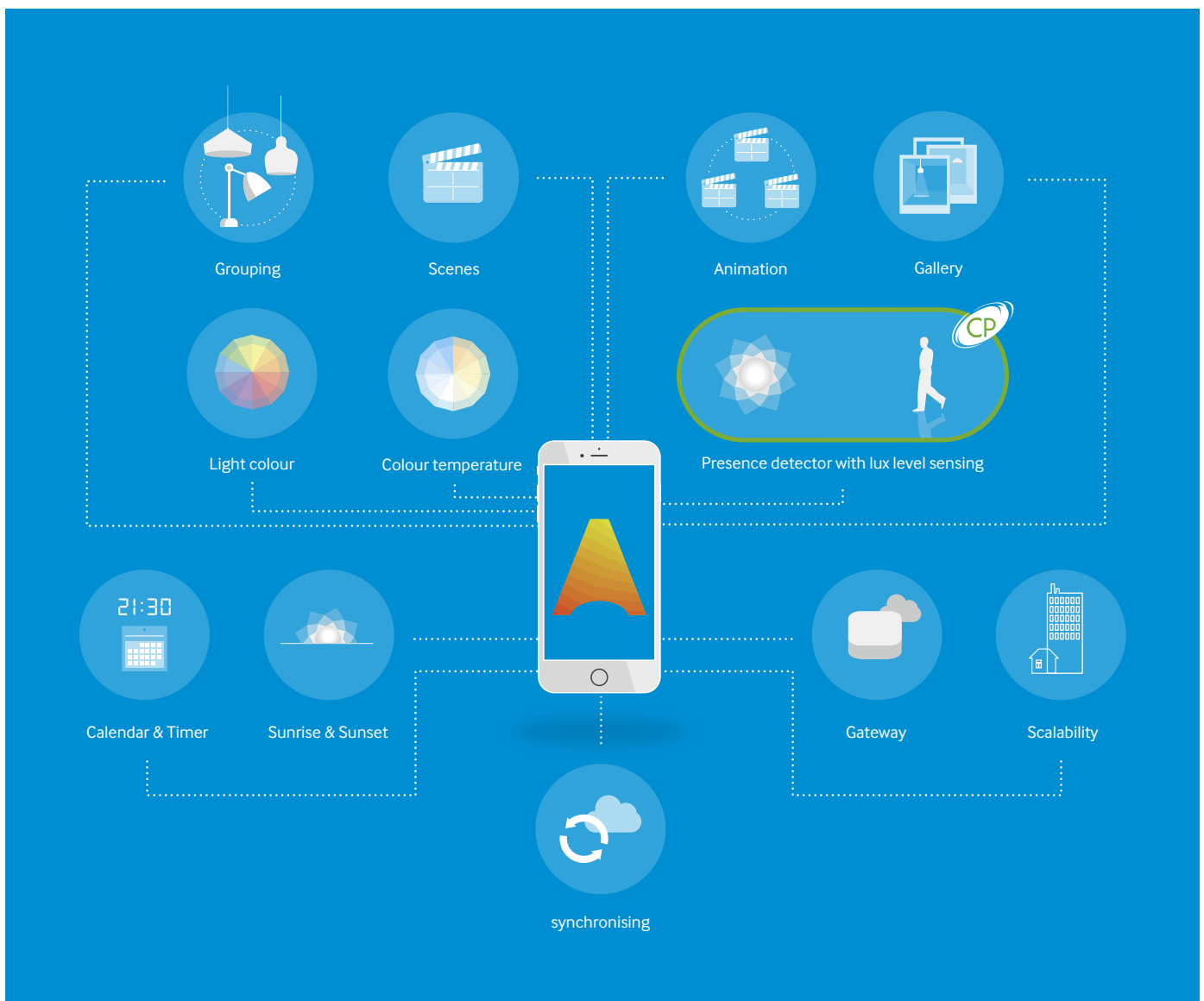
This state-of-the-art wireless technology enables modern smartphones, tablets and even smart watches to be a lighting controller. Their lighting control technology can be integrated into luminaires and LED drivers to create a highly functional solution with minimal cost and installation effort.

CP Electronics Casambi Wireless Detectors

Many Casambi detectors only offer sensing ability without any form of output control. CP Electronics Casambi range on the other hand offers comprehensive control using its built in DALI dimming output for professional style luminaires and its relay switching for architectural or residential style lighting fixtures. Effectively, it gives the ability to convert any light into a smart one, thus removing the need for any conversion unit to integrate into the luminaire. This results in space and cost savings for the user.

Key Benefits

- Smart automatic joining to mesh network on power up, thus one for one self-healing replacement is possible
- Single point of network failure is removed
- Rugged de-centralised control that continues to function even during loss of network
- Full flexibility to group or re-group and configure advance daylight, occupancy and time control regimes
- A variety of user interfaces means to override or control the scene on demand to match the users' high expectations whilst delivering good energy saving benefits
- Commissioning tools with wireless signal diagnostic aids



Our Casambi Enabled Products

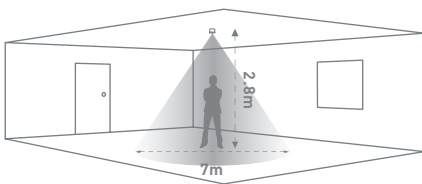


EBDSPIR Compact detectors

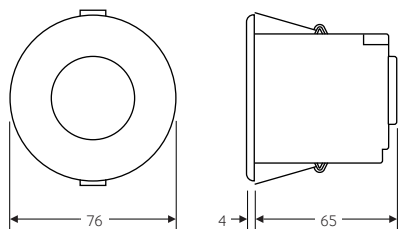
Key Features:

- Low profile design
- Self contained unit
- Programmable time delay and lux settings with mobile app
- Provides automatic control for lighting and ventilation loads
- Relay and DALI output channels
- 5 year warranty

Detection pattern high < sensitivity > low



Dimensions (mm)



Order Code	Description
EBDSPIR-CB-DD	Casambi wireless mesh PIR detector with DALI & relay output

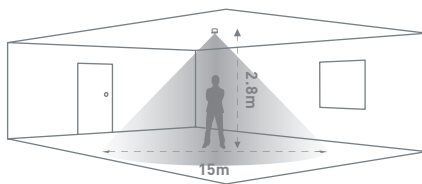


EBDMR Mid range detectors

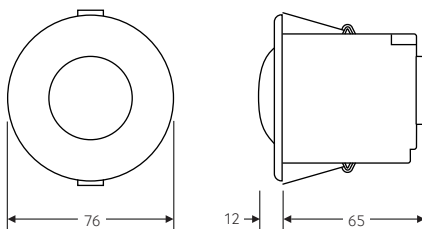
Key Features:

- New mid range lens with concentric lens facets for improved detection
- 360° presence and absence detection
- Ideal for open plan offices
- Relay and DALI output channels
- 5 year warranty

Detection pattern high < sensitivity > low



Dimensions (mm)



Order Code	Description
EBDMR-CB-DD	Casambi wireless mesh, mid range, PIR presence detector with DALI & relay output

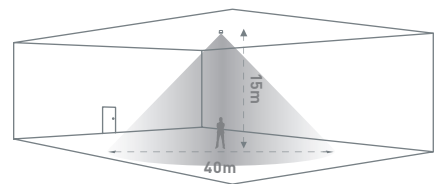


EBDHS-B High level detectors

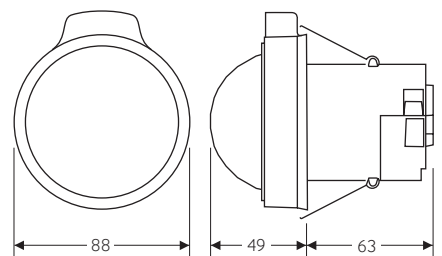
Key Features:

- Ground breaking detection range
- Unique lens technology – high sensitivity
- Ideal for high level/high bay applications
- Supplied with adjustable masking shields to tailor detection zones
- Relay and DALI output channels
- 5 year warranty

Detection pattern high < sensitivity > low



Dimensions (mm)



Order Code	Description
EBDHS-B-CB-DD	Casambi wireless mesh, high bay/high level, PIR detector with DALI & relay output

Example Applications

Below are two examples of CP Electronics wireless mesh presence detectors being used in conjunction with a Casambi wireless mesh network. CP Electronics products are suitable for a wide variety of applications, please contact us for more information.

Office application

In an office application, triggering a detector sends a Bluetooth signal to all associated devices within the wireless mesh. The end user benefits from this decentralised set up with app based control via a smart device.

Accurate daylight harvesting balances luminaire output with the natural lighting available. The compact EBDSPiR and the EBDMR mid-range detectors will then send a signal to adjust the light output of the luminaires within a specified area (green dashed line), ensuring the efficient use of energy and maintaining a comfortable, safe working environment.

Warehouse application

The patented fresnel lens design along with a multi-pyro feature gives the EBDHS high bay detector its impressive detection performance. By having a dedicated external light sensor, the detector is better able to offer precise readings of light level in a controlled space, an issue that is particularly demanding when mounted at high levels.

Its excellent wireless mesh range ability and wide detection capability makes it ideal for large space installations. The smart device programmability enables these detectors to offer the flexibility of adapting any group of lights to suit the needs of developing warehouse layouts including walk aisles and rackings.

Key

- Sensor
- Luminaire
- Bluetooth Wireless Mesh
- Zones
- Maintained Illuminance

Lighting Controls by CP Electronics

As pioneers in energy-saving lighting controls since 1970, CP Electronics has effortlessly integrated into its products the functionality and benefits of some of the world's leading control technologies. Furthermore, you can rely on CP Electronics to deliver the highest quality and support, time after time.



KNX Presence Detectors

CP Electronics brings its extensive functionality to KNX, the worldwide standard for unifying all communication between intelligent devices that light, heat and ventilate homes and buildings.



SR Presence Detectors

As one of the earliest members of the Philips Sensor Ready Certified Partner Program, CP Electronics can offer a suite of SR compatible detectors, providing easy communication compatibility between the sensor and the luminaire driver.



DALI Network Detectors

An established network-based, addressable lighting control system, our products are powered, commissioned and polled over a DALI two-wire bus and can be queried for presence and lux level.



An-10 Wireless Lighting Control

Specifically designed by CP Electronics to embrace the advantages of wiring technology, but fully featuring the functionality demanded by modern lighting control systems.

Energy Efficiency in Buildings

These products form a wide range of devices to enable Energy Efficiency in Buildings – A structured and holistic approach to reducing the carbon footprint and increasing sustainability of businesses.

cpelectronics.co.uk/energy-savings-calculator



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Designs and specifications are subject to change without notice.