



EMDCB

Self-powered smart panel



Product Overview

EMDCB is a self-powered device that monitors the environment for person movement using a passive infrared (PIR) sensor.

EMDCB operates self-powered in most applications based on available light in the environment (electric or natural light). It therefore can be flexibly mounted on the ceiling without the need for any wiring.

The Lumos Controls ecosystem comprises controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards. The ecosystem is listed by the **Design Lights Consortium (DLC)**, qualifying it for energy conservation incentive programs and rebates by utility companies.

Specifications

Electrical

Specifications	Value
Power supply	<ul style="list-style-type: none"> Integrated solar cell Backup battery option (CR 2032)

Bluetooth

Specifications	Value	Remark
Frequency range	2.4 GHz	Bluetooth Low Energy (Advertising Mode)
RF transmit power	+4dBm	
Transmission range	LoS: 75m(outdoor) LoS: 10m(indoor)	Can vary with installation environment

Features

- PIR motion sensing
- Harvests ambient solar energy to power the sensors and enable wireless communication
- Configuration via simple user interface or via NFC
- Mounts easily on ceiling
- CR2032 coin cell battery can also be used for powering

Environmental

Specifications	Value
Operating temperature	0 to 50°C (32 to 140°F) Indoor use only
Humidity	20–85% RH

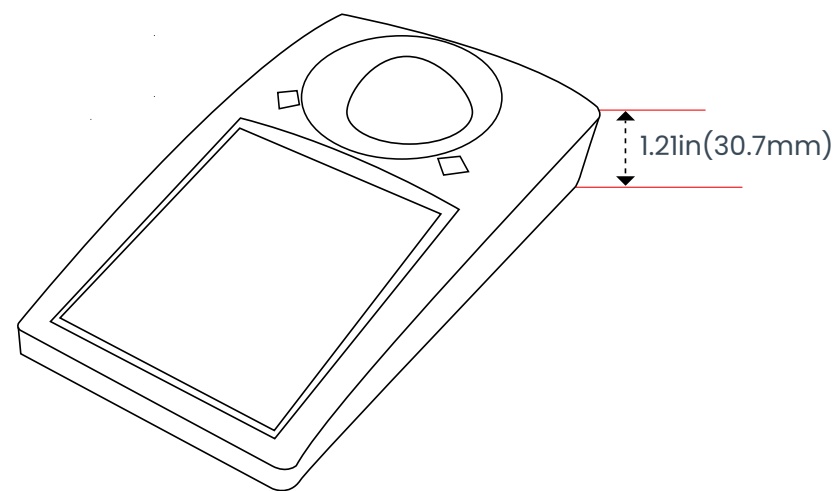
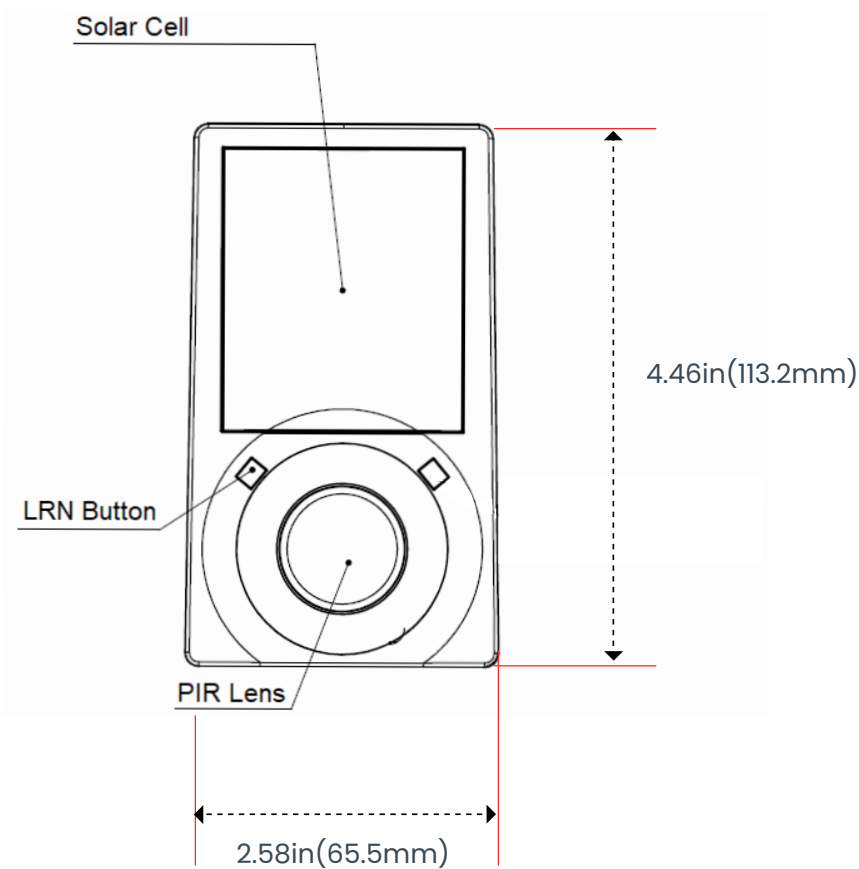
Mechanical

Specifications	Value	Remarks
Dimension	113.2 x 65.5 x 30.7mm 4.46 x 2.58 x 1.21in	L x W x H
Net weight	85g (3oz)	

PIR Sensor

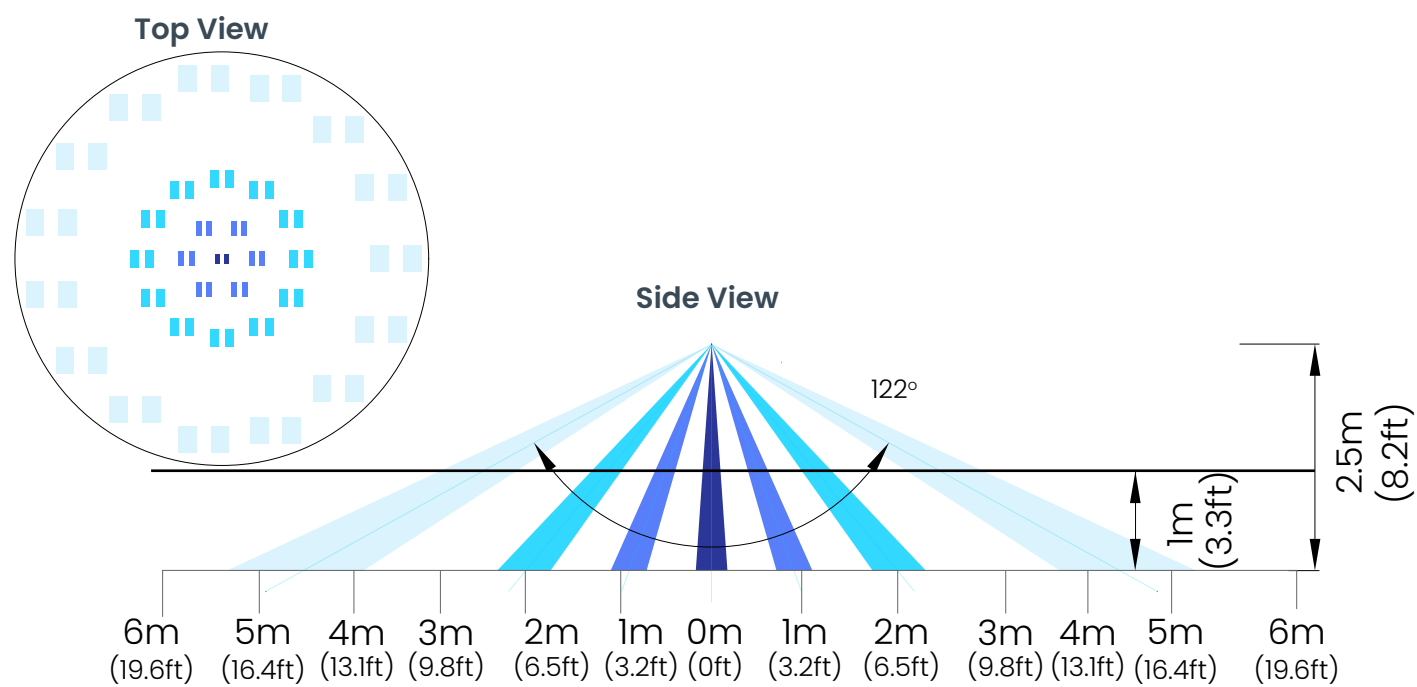
Specifications	Value
Mounting height	2.5m(8.5ft)
Motion sensing range	5m(16.5ft) radius

Product Dimensions

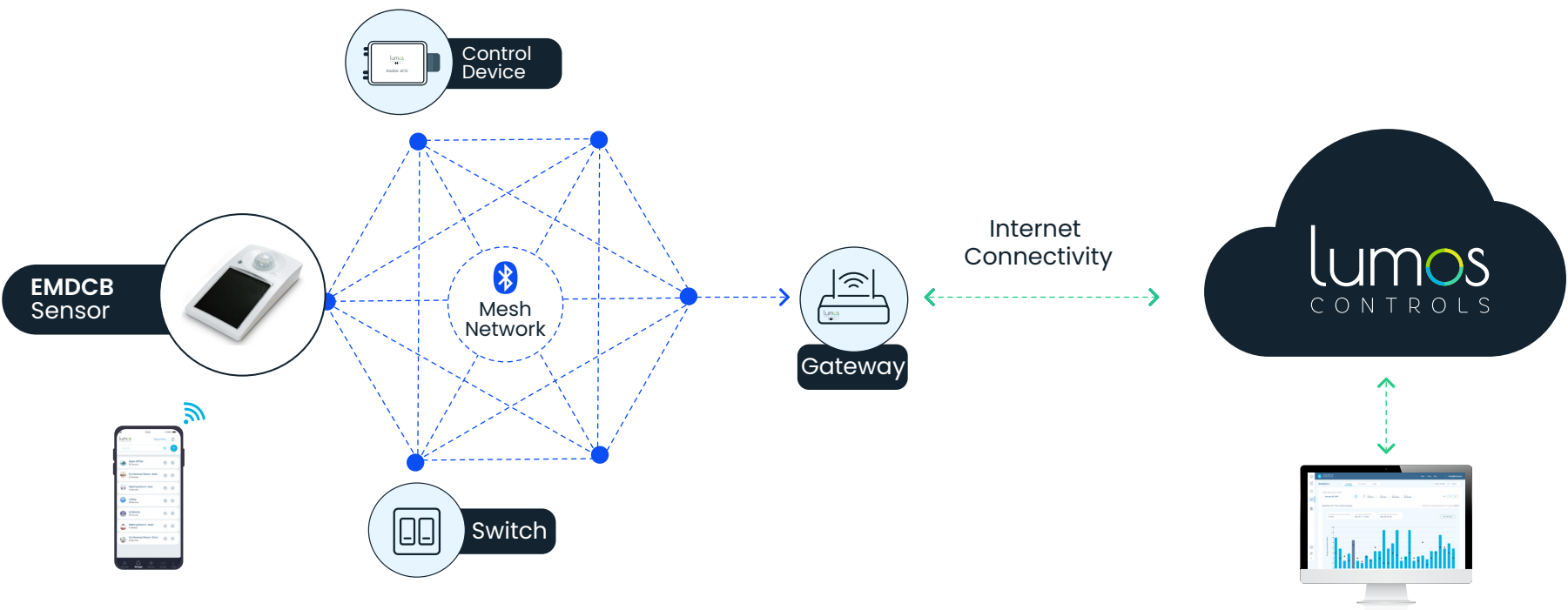


PIR sensor characteristics

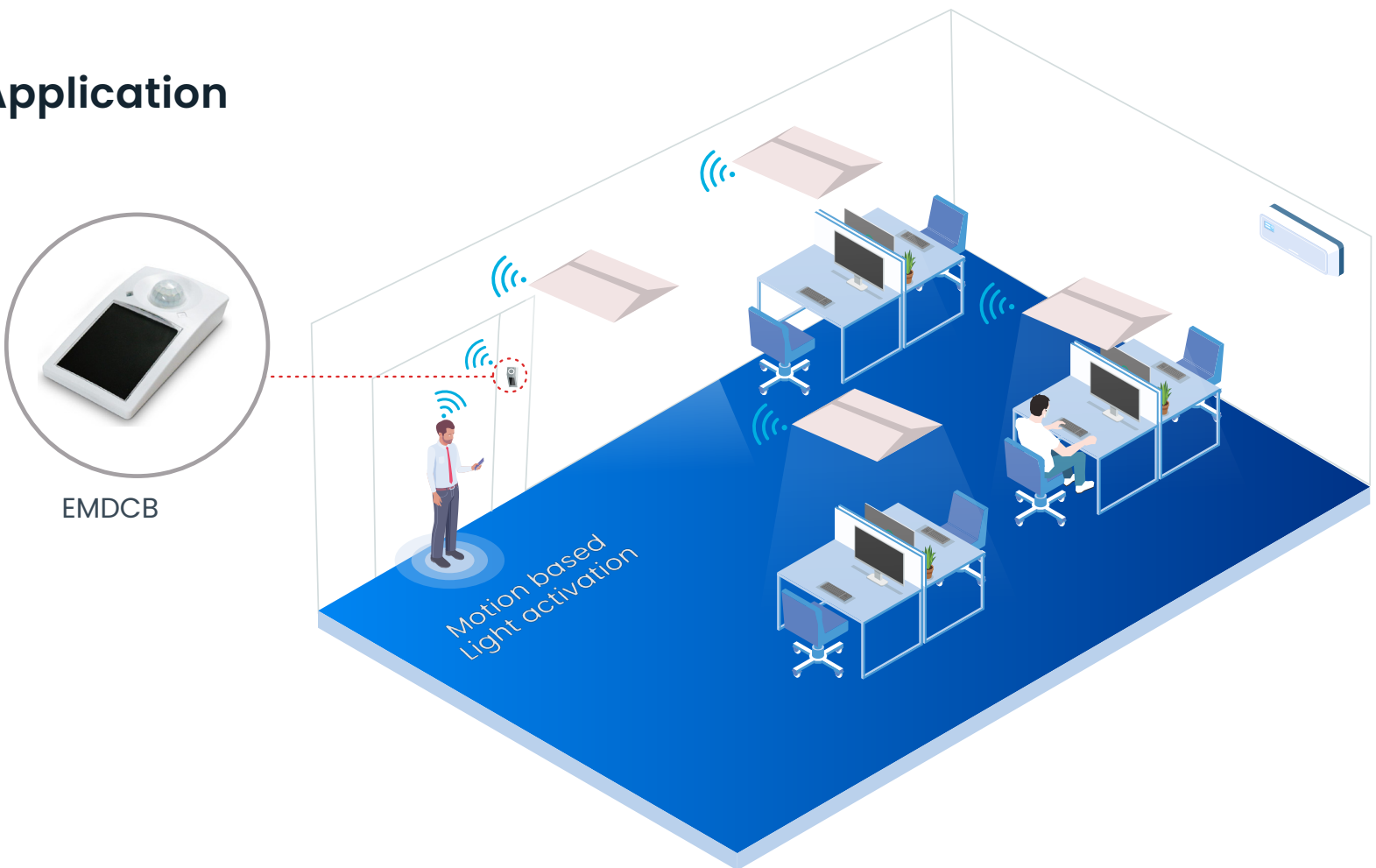
PIR sensor characteristics



Smart Ecosystem



Application



Certifications	Details
CE	<p>Article 3, RED 2014/53/EU</p> <p>EMC test standards: EN 301 489-1 V2.2.0 EN 301 489-17 V3.2.0 EN 55032:2012 EN 55035:2017</p> <p>Radio Test standard: EN 300 328 V2.1.1</p> <p>Health Test standard: EN 62479:2010</p> <p>Safety Test Standard: EN 62368-1:2014</p>
RoHS 2.0	RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU
WEEE	Under the WEEE Directive: 2012/19/EU
Bluetooth	Declaration ID: D042783
ISED	ID: 5713A-TCM515B
FCC	ID: SZV-TCM515B

Items included in the package box

- EMDCB
- User guide
- 2 screws, 2 wall anchors



Ordering Information

Product Code	Product Description	Communication	Voltage Rating
EMDCB	PIR motion sensor	BLE	CR-2032 coin cell battery

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