CBU-CEFLDALI

Ceiling Flush Mount Passive Infra Red (PIR) Occupancy Detector & Photocell

Input: 100-240 Vac 50/60Hz

CASAMBI

PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLING THE PRODUCT
NOTE: CBU-CEFLDALI is only compatible to work with Casambi enabled equipment.

This flush mounted CBU-CEFLDALI is suitable for easy mounting through a 73/75mm diameter hole into a ceiling void which is at least 78mm deep. Configurable for any room occupancy style, via the free to download Casambi APP on Google Play or Apple APP Store.

INSTALLATION

To be installed by a competent person with reference to BS 7671 or equivalent local standards. If in doubt consult a qualified electrician.

- Plan where the CBU-CEFLDALI is to be located (see diagram 1). Switch off supply and check for hidden cables and pipes. Make a 73/75mm diameter hole through a standard ceiling board.

- The CBU-CEFLDALI should be connected as shown in diagram 2:

  L - Live in.   N - Neutral in. +/- - DALI control lines (polarity independent)

- Ensure both springs are fitted to the moulding in the correct orientation (see diagram 3).

- Push the CBU-CEFLDALI into the ceiling void, making reference to diagram 4.

OPERATION

To check the operation of the CBU-CEFLDALI subject to software version:

- Turn on the supply then after 20 seconds if the sensor has recognised movement of a person within its zone of detection the integral red LED on CBU-CEFLDALI will stay illuminated for 4 seconds before the red LED turns off.

- Thereafter, every time movement is detected by CBU-CEFLDALI the integral red LED will stay illuminated for 4 seconds.

The control also features adjustable time out (time lag) control and daylight threshold control which are configured by the Casambi APP.

PRECAUTIONS

- Do not place the CBU-CEFLDALI near heat sources, fans or in ventilated ceiling voids.

- CBU-CEFLDALI can be wired in parallel (sharing the same Live and Neutral).

- Do not place close to, or positioned such that, any light source points directly into the CBU-CEFLDALI.

- Ensure wires and cables are securely held within the connection terminals.

- The CBU-CEFLDALI should be protected by a 5 or 6 Ampere mcb or fuse.

- **Disconnect the CBU-CEFLDALI from the circuit before performing insulation testing of the wiring circuit.**
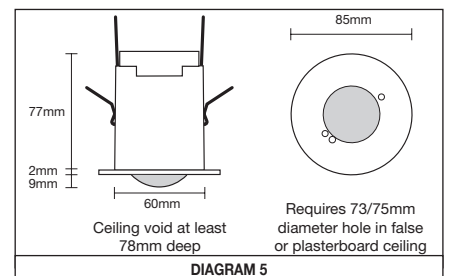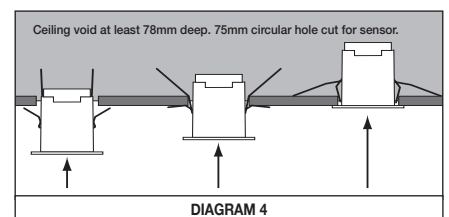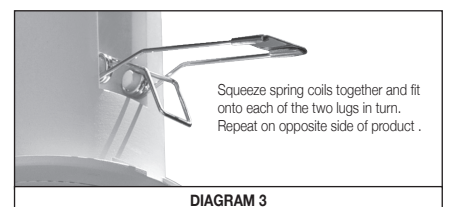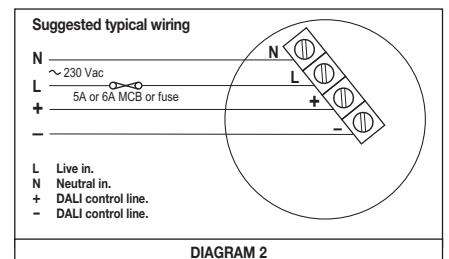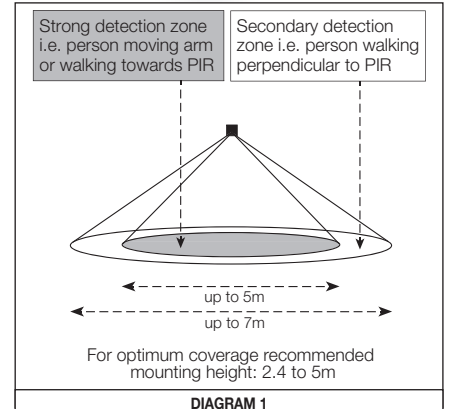
5 YEAR WARRANTY

CBU-CEFLDALI comes with a 5 year warranty from the date of manufacture and is CE marked.

TECHNICAL DETAILS

INPUT	
Voltage:	100 - 240Vac
Frequency:	50/60Hz
Max. mains current:	20mA
Standby current:	18mA

OUTPUT	
Output:	DALI 15VDC
Output Current:	16mA (maximum 8 ballasts)

RADIO TRANSCEIVER	
Operating frequencies:	2.4... 2,480 GHz
Max. output power:	+4 dBm

LUX PARAMETERS	
Range:	5 - 2000 lux

OPERATING CONDITIONS
Note: The temperature difference between the detection target and the background must be at least 4 °C.

Ambient temperature:	-20... +40 °C (Iout 20mA)
Storage temperature:	-25... +75 °C
Max. relative humidity:	0... 80%, non cond.

CONNECTORS	
Terminal block Wire size:	0.5mm² - 2.5mm² solid or stranded
Wire strip length:	6-7mm
Tightening torque:	0,4 Nm/4 Kgf.cm

MECHANICAL DATA	
Dimensions:	79mm x 85mm x 85mm
Weight:	97g (unpacked)
Degree of protection:	IP40
Protection class:	Built-in Class 2
Material (casing)	Flame-retardant polycarbonate
Finish / Colour	Matt /White (RAL 9003)
Protection class:	Built-in Class 2

CONFORMITY AND STANDARDS

EMC emission:
EN 301 489-1 V2.2.0, EN 301 489-17 V3.1.1, EN 55032: 2015, EN61000-3-2: 2014, EN61000-3-3: 2013

EMC immunity:
EN 301 489-1 V2.2.0, EN 301 489-17 V3.1.1

Environment:
Complies with WEEE and RoHS directives

Strong detection zone i.e. person moving arm or walking towards PIR | Secondary detection zone i.e. person walking perpendicular to PIR

up to 5m
up to 7m

For optimum coverage recommended mounting height: 2.4 to 5m

DIAGRAM 1

Suggested typical wiring

N ~ 230 Vac
L   5A or 6A MCB or fuse
+
–

L   Live in.
N   Neutral in.
+   DALI control line.
–   DALI control line.

DIAGRAM 2

Squeeze spring coils together and fit onto each of the two lugs in turn. Repeat on opposite side of product .

DIAGRAM 3

Ceiling void at least 78mm deep. 75mm circular hole cut for sensor.

DIAGRAM 4

85mm
77mm
2mm
9mm
60mm

Ceiling void at least 78mm deep

Requires 73/75mm diameter hole in false or plasterboard ceiling

DIAGRAM 5

CE UKCA