# **CBU-HB17MSW**

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

Input: 100-240 Vac 50/60Hz

**CAS** MBI



This CBU-HB17MSW Lighting Control can be mounted directly onto solid ceilings or onto a range of different mounting boxes. Configurable for any room occupancy style, via the 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-HB17MSW is to be located (see diagram 1). Switch off supply and check for hidden cables and pipes.
- The CBU-HB17MSW should be connected as shown in diagrams 2 and 3:
  - Live in.
  - Neutral in.
  - SL Switch Live.
- Knockout or drill the appropriate holes on the mounting plate for attaching the plate to the ceiling or back box (if applicable). Feed cables through the appropriate (side or rear) entry hole. Screw the back mounting plate to the ceiling or back box via the mounting holes. Wire the cables into the sensor head block terminal. Push the sensor head onto the mounting plate and align the side clips with the slots on the sensor heads.

# **OPERATION**

To check the operation of the CBU-HB17MSW:

- 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-HB17MSW will stay illuminated for 4 seconds before the red LED turns off.
- · Thereafter, every time movement is detected by CBU-HB17MSW the integral red LED will flash.

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-HB17MSW near heat sources, fans or in ventilated ceiling voids.
- Do not place close to, or positioned such that, any light source points directly into the CBU-HB17MSW.
- Ensure wires and cables are securely held within the connection terminals.
- The CBU-HB17MSW should be protected by a 10 Ampere mcb or fuse.
- Disconnect the CBU-HB17MSW from the circuit before performing insulation testing of the wiring circuit.

### **TECHNICAL DETAILS**

INPUT		
Voltage:	100 - 240Vac	
Frequency:	50/60Hz	
Max. mains current:	20mA	
Standby current:	18mA	
LOADING		
Fluorescent lamps, either high frequency or switch start	10 amps (2300W)	
Incandescent or mains halogen lamps	10 amps (2300W)	
Electronic or wire wound transformers.	6 amps (1500W)	
LED lamps and drivers (PF $\geq$ 0.95).	6 amps (1500W)	
Compact fluorescent	6 amps (1500W)	
Fans	1 amp (250W)	
Inrush current	120A, 20mS	
RADIO TRANSCEIVER		
Operating frequencies:	2.4 2,483 GHz	
Max. output power:	+4 dBm	
LUX PARAMETERS		
Range:	5 - 2000 lux	
OPERATING CONDITIONS		

Ambient temperature:

detection target and the background must be at least 4 °C.

20mA)

-20... +40 °C (lout

Storage temperature:	-25 +75 °C
Max. relative humidity:	0 80%, non cond.
CONNECTORS	
Terminal block Wire size:	0.5mm <sup>2</sup> - 2.5mm <sup>2</sup> solid or stranded
Wire strip length:	6-7mm
Tightening torque:	0,4 Nm/4 Kgf.cm
MECHANICAL DATA	
Dimensions:	49mm x 91mm x 91mm
Weight:	98g (unpacked)
Degree of protection:	IP20
Protection class:	Built-in Class 2
Material (casing)	Flame-retardant polycarbonate
Finish / Colour	Matt /White (RAL 9003)

# CONFORMITY AND STANDARDS

# EMC emission:

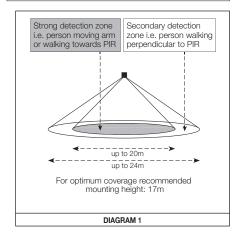
EN 301 489-1 V2.2.0, EN 301 489-17 V3.1.1, EN 55032: 2015. EN61000-3-2: 2014, EN61000-3-3: 2013

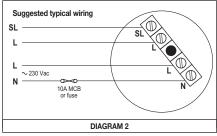
# EMC immunity:

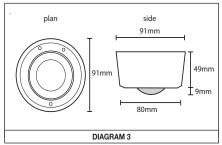
EN 301 489-1 V2.2.0, EN 301 489-17 V3.1.1

### **Environment:**

Complies with WEEE and RoHS directives







# **5 YEAR WARRANTY**

CBU-HB17MSW comes with a 5 year warranty from the date of manufacture and is CE marked.



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