

# ML-CEFLSW

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

Input: 100-240 Vac 50/60Hz



PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLING THE PRODUCT

NOTE: ML-CEFLSW is only compatible to work with MESHLE enabled app.

This flush mounted ML-CEFLSW 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 MESHLE 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 ML-CEFLSW 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 ML-CEFLSW should be connected as shown in diagram 2:  
L - Live in. N - Neutral in. SW - Switched line.
- Ensure both springs are fitted to the moulding in the correct orientation (see diagram 3).
- Push the ML-CEFLSW into the ceiling void, making reference to diagram 4.

### OPERATION

To check the operation of the ML-CEFLSW:

- 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 ML-CEFLSW will stay illuminated for 4 seconds before the red LED turns off.
- Thereafter, every time movement is detected by ML-CEFLSW 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 MESHLE APP.

### PRECAUTIONS

- Do not place the ML-CEFLSW 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 ML-CEFLSW.
- Ensure wires and cables are securely held within the connection terminals.
- The ML-CEFLSW should be protected by a 10 Ampere mcb or fuse.
- Disconnect the ML-CEFLSW 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:	14mA
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... 2,480 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:	0,5mm <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:	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)

### 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

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



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