

Mymesh Product Sheet

Connect any light, anywhere.



MYMESH-HBSP

Ceiling High Bay (Spot) Passive Infra Red (PIR) Occupancy Detector & Photocell

(Input: 100-240 Vac 50/60Hz)

This MYMESH-HBSP High Bay (Spot Detection) 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 Mymesh App.

Installation:

Please read these instructions before installing the product.

NOTE: MYMESH-HBSP is compatible with Mymesh commissioning tools.

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 NOTE: MYMESH-HBSP is to be located (see diagram 1). Switch off supply and check for hidden cables and pipes.
- The MYMESH-HBSP should be connected as shown in diagram 2:
L - Live in. N - Neutral in.
- 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 MYMESH-HBSP:

- 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 MYMESH-HBSP will stay illuminated for 4 seconds before the red LED turns off.
- Thereafter, every time movement is detected by MYMESH-HBSP 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 via the Mymesh App.

Precautions:

- Do not place the MYMESH-HBSP near heat sources, fans or in ventilated ceiling voids.
- MYMESH-HBSP 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 MYMESH-HBSP.
- Ensure wires and cables are securely held within the connection terminals.
- The MYMESH-HBSP should be protected by a 5 or 6 Ampere mcb or fuse.
- Disconnect the MYMESH-HBSP from the circuit before performing insulation testing of the wiring circuit.

Status LED blinking sequence:

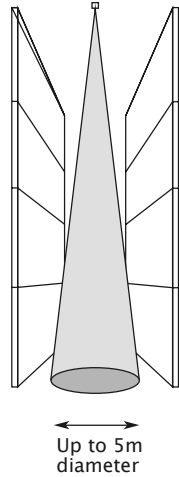
See diagram 6 overleaf.

Normal:	Both LED's off.
Identification of device:	Red LED blinks.

MYMESH-HBSP: Technical Specifications

DIAGRAM 1:
Detection

**SPOT
DETECTION (SP)**
Mounting height
up to 20m
Perspective view -
ceiling mounted



Up to 5m
diameter

DIAGRAM 2:
Wiring:

Suggested typical wiring

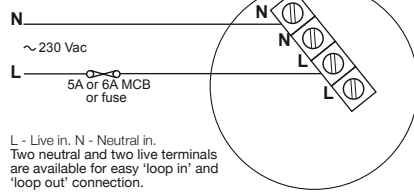


DIAGRAM 3:
Dimensions:

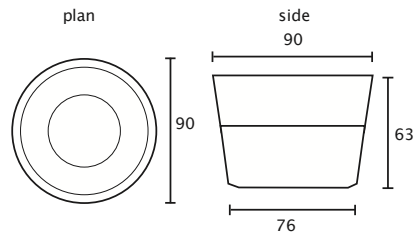
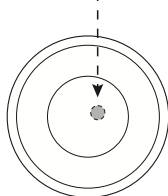


DIAGRAM 4:
Status LED:

STATUS LED.
Normal: Both LEDs off.
Identification of device:
Red LED blinks.



Technical details:

INPUT	
Voltage:	100 - 240Vac
Frequency:	50/60Hz
Max. mains current:	20mA
Standby current:	14mA
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 (lout 20mA)
Storage temperature:	-25... +75 °C
Max. relative humidity:	0... 80%, non cond.
CONNECTORS	
Terminal block Wire size:	0.5mm ² - 2.5mm ² solid or stranded
Wire strip length:	6-7mm
Tightening torque:	0.4 Nm/4 Kgf.cm
MECHANICAL DATA	
Dimensions:	63mm x 91mm x 91mm
Weight:	110g (unpacked)
Degree of protection:	IP20
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 301 484-3, EN 55032: 2015, EN61000-3-2: 2014, EN61000-3-3: 2013	
EMC immunity: EN 301 489-1 V2.2.0, EN 301 484-3	
Environment: Complies with WEEE and RoHS directives	
CB scheme: IEC60669-1:1998, IEC60669-1:1998/AMD1:1999, IEC60669-1:1998/AMD2:2006, IEC60669-2:2002, IEC60669-2-1:2002/AMD1:2008	
Radio: EN 300 440	

5 YEAR WARRANTY

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

