



# EBMPIR-MB-DNET1

## Luminaire mount PIR DALI network

### Overview



The EBMPIR-MB-DNET1 is a combined passive infrared (PIR) motion sensor and photocell designed to be part of a DALI network. It is specifically designed for mounting onto a batten style luminaire.

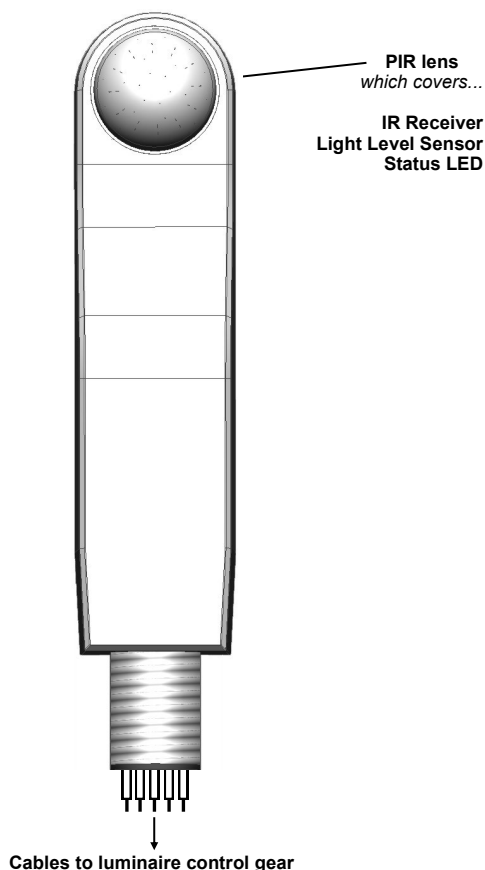
Functioning as a presence detector, the unit returns occupancy data to the DALI network. The photocell provides a lux level measurement value to the DALI network.

The units are IP65 rated as standard and are therefore suitable for outdoor use as well as wet and wash-down areas. A selection of fixing washers are supplied to aid fixing to a variety of luminaires.

*For a copy of the DALI 'Command set', contact CP Electronics' technical support.*

### Features

Front view



#### PIR Sensor

Detects movement within the unit's detection range, allowing load control in response to changes in occupancy.

#### IR Receiver

Receives control and programming commands from an IR (infrared) handset.

#### Light Level Sensor

Measures the overall light level in the detection area



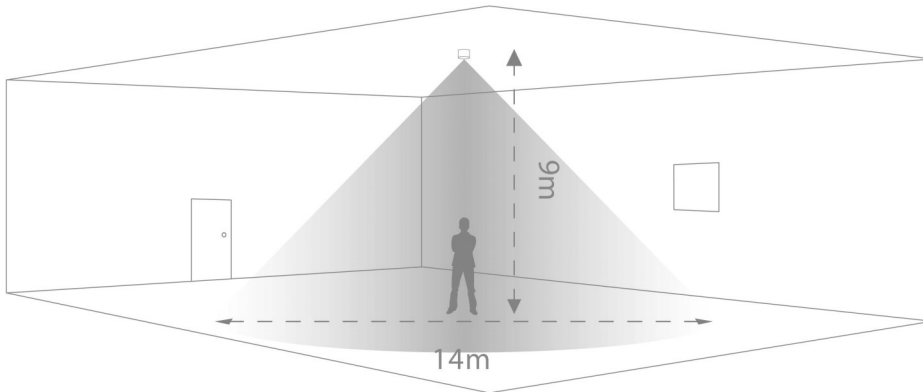
**EBMPIR-MB-DNET1-LT30**

Special order version that can be used down to -30°C

# Detection diagram

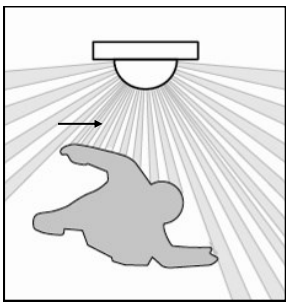
## Range

high < sensitivity > low



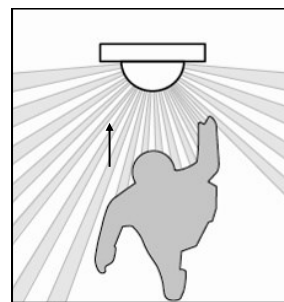
Note: illustration shows an average of the walk across and walk towards figures below.

### Walk across



Height	Range Diameter
9m	14m
7m	13m
5m	11m
3m	8m

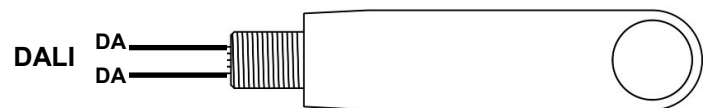
### Walk towards



Height	Range Diameter
9m	7m
7m	7m
5m	7m
3m	5m

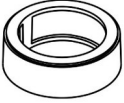
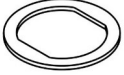
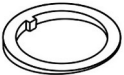


## Wiring

The EBMHS-MB-DNET1 supplied with two 1m wires to connect to the DALI network. The device is designed to operate correctly with reversed polarity.

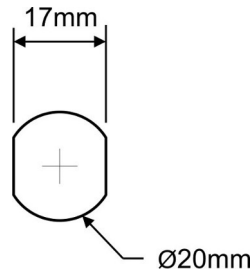


**Do not grip unit at the lens end. Hold the square body near the threaded end when installing and tightening the nut. Care must be taken to prevent damage to the lens and surrounding IP seal.**

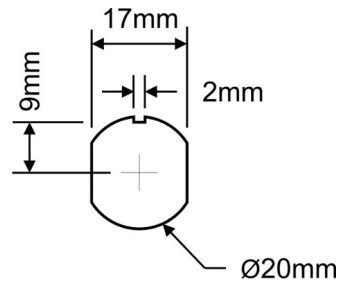
## Components

Part	Quantity Supplied
 IP Spacer with silicone coating	1
 Silicone washer	1
 5° washer	1
 5° spacer	1
 M20 nut	1

## Mounting hole without key

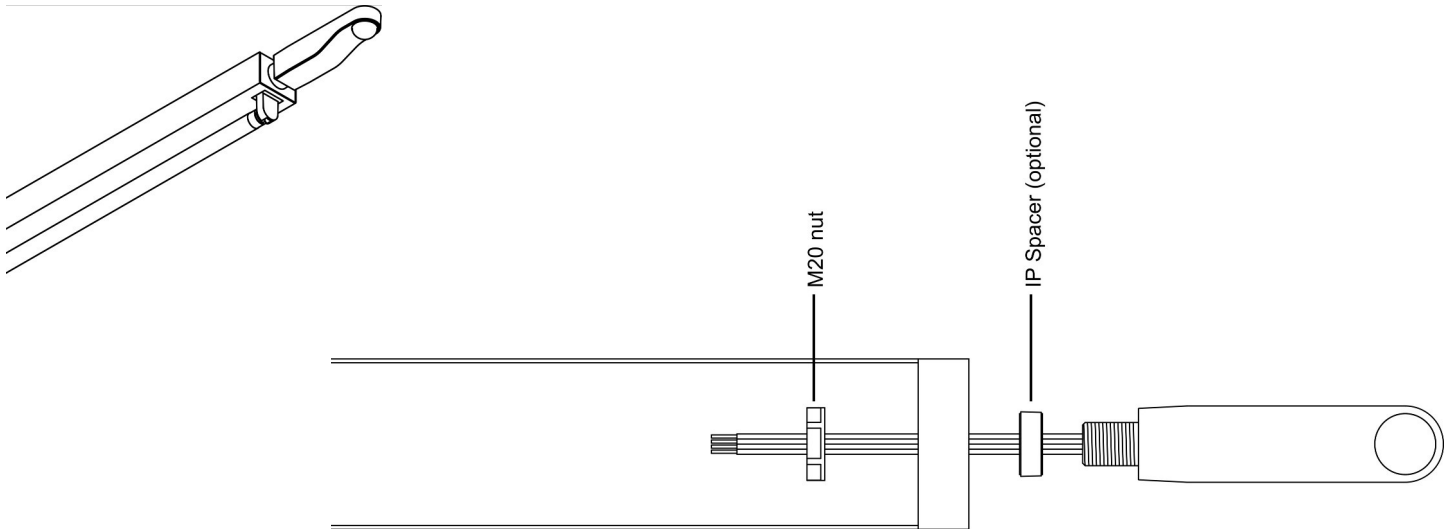


## Mounting hole with key

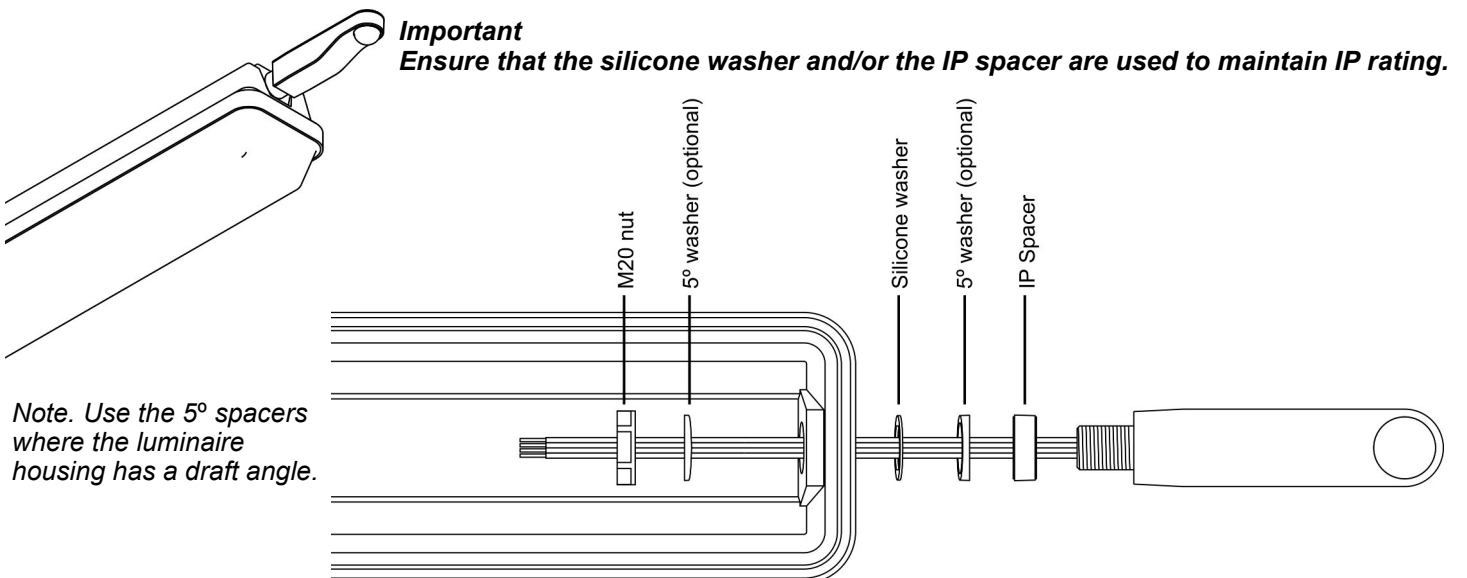


*Note. Key to be at top of sensor.*

## Standard luminaire fitting



## IP luminaire fitting

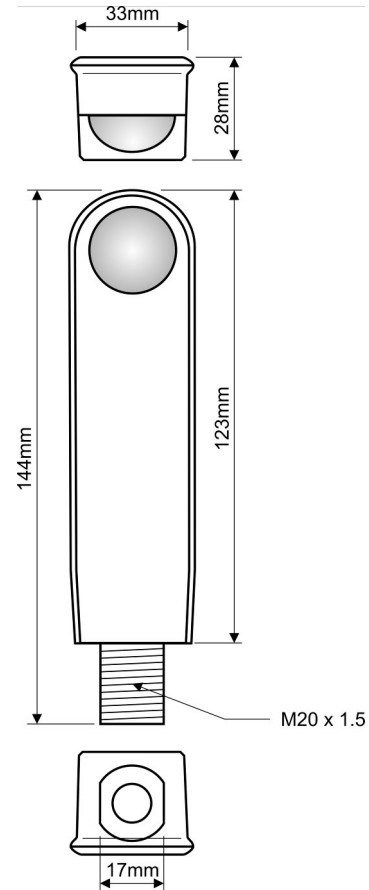


# Technical data

Dimensions	See diagrams on page 1
Weight	0.10kg
Supply Voltage	9.5VDC—22.5VDC via DALI
Supply Current	8mA
Terminal Capacity	2.5mm <sup>2</sup> (solid or stranded)
Material (casing)	Flame retardant ABS and PC/ABS
Temperature	EBMPIR-MB-DNET1 -10°C to 35°C EBMPIR-MB-DNET1-LT30 -30°C to 35°C
Humidity	5 to 95% non-condensing
Material	Flame retardant ABS/PC Type Class 2
IP rating	IP65
Compliance	EMC-2014/30/EU LVD-2014/35/EU



For further compliance information visit  
[www.cpelectronics.co.uk/compliance](http://www.cpelectronics.co.uk/compliance)



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