

## Safety Warning



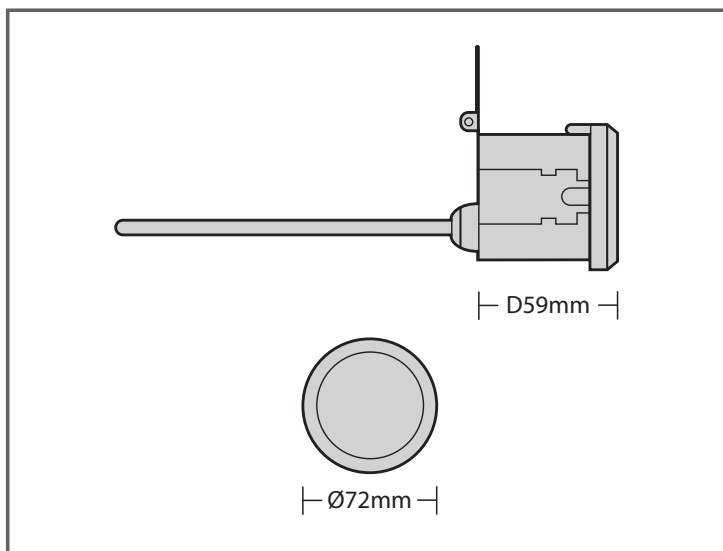
- The installation should be carried out by a qualified electrician in compliance with the current edition of the IEE Wiring Regulations.
- Prior to installation, carry out the necessary risk assessment considering the people who could be at risk, the level of risk and the precautions required to control the risk
- Ensure that the circuit supply is isolated either by the circuit supply fuse being removed or the applicable circuit breaker being turned off before installation or any maintenance.
- Check the total load on the circuit ensuring the luminaire does not exceed the rating of the circuit cable, fuse or circuit breaker.
- Long-term use and voltage fluctuations can reduce the life span of the fitting.
- If the fitting incorporates control gear, ensure careful sizing to avoid instances of nuisance tripping of the protective device used in the installation.
- Follow the provided installation instructions, using the fixings supplied or recommended.
- Keep out of reach of children.



## Specification

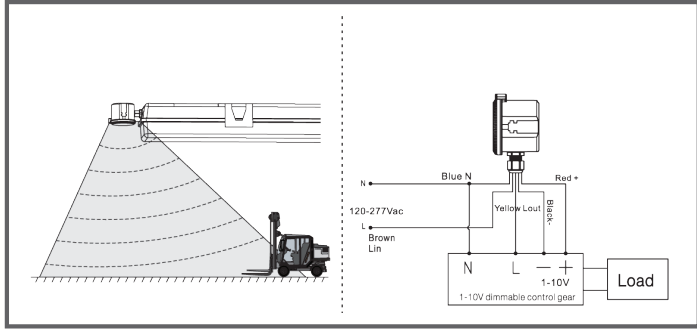
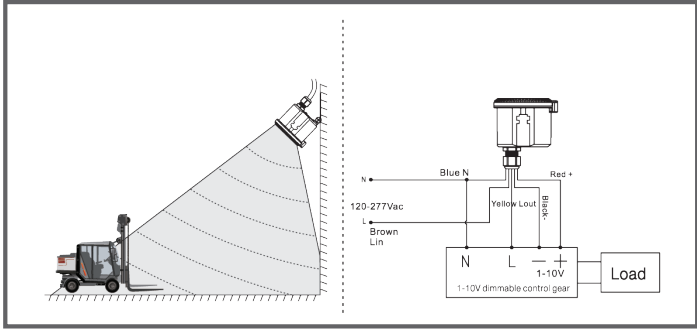
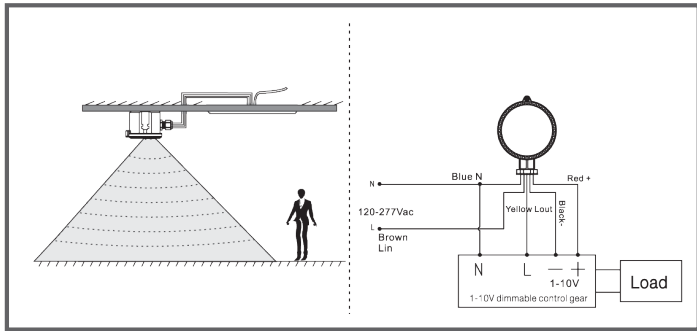
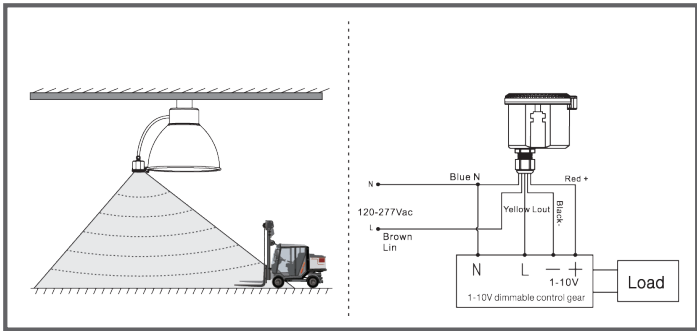
**Box Contents -**  
1 x Microwave Sensor

<b>Dimensions:</b>	HLBMS: Ø: 72 x D:59mm
<b>Material:</b>	Polycarbonate
<b>IP Rating:</b>	IP65
<b>Working Temperature:</b>	-25°C - 55°C
<b>Guarantee:</b>	5 Years



## Installation Instructions

1. Remove the sensor from the box.
2. On the sensor there are five separate wires inside the cable, these are;  
Live in (incoming) = Brown  
Neutral (incoming) = Blue  
Live out (to driver) = Yellow  
Positive (to driver) = Red  
Negative (to driver) = Black  
Attach each cable to the correct position on your led fitting / driver, making sure to get the polarity of the dimming cables the correct way around (please see wiring diagrams on the next page)
3. Once the cables have all been connected correctly, then attach the microwave sensor to the led fitting/ceiling. (If you are using our LED compact dimmable high bay range, then you will need to purchase the corresponding bracket adaptor for the sensor to fit correctly).
4. Once fitted, angle the microwave sensor to point the way of the movement you want detecting and tighten the thumb turn screws to lock into place.
5. To set the microwave sensor to your desired parameters with the dip switches, please see following pages (if you have purchased the remote control, then you can use this to override the settings programmed into the sensor with the dip switches).
6. Turn on the power to the circuit and test to make sure everything works correctly.



### Detection Area

		1	
ON	I	ON	100%
	II	-	50%

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

### Hold Time

		2	3	4	
ON	I	ON	ON	ON	5S
	II	-	ON	ON	30S
	III	ON	-	ON	1min
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	30min

Refers to the time period the lamp remains at 100% illumination after no motion is detected.

### Stand-By Period

		1	2	3	
ON	I	ON	ON	ON	0S
	II	-	ON	ON	1min
	III	ON	-	ON	3min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	-	-	+∞


Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people. When set to  $+\infty$  mode, the low light is maintained until motion is detected.

### Stand By Dimming

		4	5	
ON	I	ON	ON	10%
	II	ON	-	20%
	III	-	ON	30%
	IV	-	-	50%

The low light level you would like to have after the hold time in the long absence of people.

## Daylight Sensor

		6	7	8	9	
	I	ON	ON	ON	ON	5Lux
	II	-	ON	ON	ON	15Lux
	III	ON	-	ON	ON	30Lux
	IV	-	-	ON	ON	50Lux
	V	ON	ON	-	ON	100Lux
	VI	ON	ON	ON	-	150Lux
	VII	-	-	-	-	Disable

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of the ambient light level.

Note that the daylight sensor is active only when the lamp totally switches off.

## Additional Information

- Microwave sensor and remote control are only available to order separately.
- Remote control is only suitable for microwave sensor (HLBMS) purchased from 2017.

## Guarantee

This product is guaranteed for a period of 5 years from the date of purchase. The guarantee is invalid in the case of improper use, tampering, removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations (BS7671). The guarantee is also invalidated if the luminaire has been insulation tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.

## Maintenance

- This fitting will require routine cleaning if used in adverse (dust, paint, welding, oils etc) environments. Do not use solvents, aggressive detergents or abrasives.
- When this fitting comes to the end of its life or you choose to replace it, please do not dispose of it with your normal waste. Please recycle where the facilities exist, check with your local authority for suitable options.

INS/ACCESSORIES/0004/HLBMS/V3