

## DIMMING MICROWAVE MOTION SENSOR

**MODEL: FXS03**

Tri-level Dimming and DUAL PHOTOCELL



5-year warranty<sup>[1]</sup>

When used in conjunction with 1-10V dimmable driver, FXS03 can achieve tri-level dimming control.

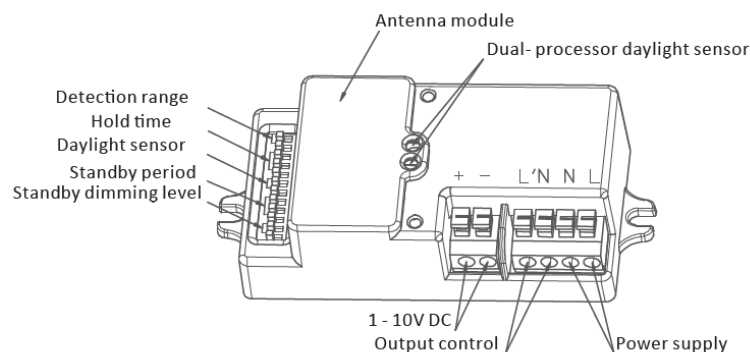
When motion is detected, the luminaire be at 100%.

After the desired hold-time during which no motion is detected, the luminaire will dim to the pre-set dim level. After a further of no movement the luminaire will switch off.

### Features

5.8GHz C-band microwave motion sensor for tri-level dimming control.

- Operating voltage: 120-277V AC 50-60Hz
- Rated load: 200W @ 120V AC (capacitive)  
400W @ 200-277V AC (resistive)
- Stand-by power: < 1W
- Dual sensor: real lux off function for built-in application.
- Zero-cross circuit: protects relay against in-rush current
- Detection range: up to 12m
- Mounting height: 3 - 6m
- Operational temp.: -20°C to +70°C




## Settings

### Detection range

Detection range can be adjusted by selecting the combination on the DIP switches to suit each application.


	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	25%



### Hold-time

Use the DIP switches to adjust the 'on' time after motion detected.

	3	4	5	
I	●	●	●	T3s*
II	●	●	○	30s
III	●	○	○	90s
IV	○	●	○	5min
V	○	○	●	10min
VI	○	○	○	30min



### Test mode


When hold-time set at 3s, the sensor enters test mode in order to select the desired detection range/sensitivity. In this mode the daylight sensors are disabled so when there is no motion the luminaire stays off. When there is motion detected the sensor cycles 3s on and 2s off.

### Daylight sensor

Adjust the DIP switches to set the threshold at which the dual photocell sensor activates:

- Disable: motion sensor operational in darkness
- 25 - 50lux: motion sensor operational in twilight
- 2 - 10lux: motion sensor operational in daylight

	6	7	8	
I	●	●	●	Disable
II	●	○	○	50lux
III	○	●	○	25lux
IV	○	○	●	10lux
V	○	○	○	2lux




### Standby period

Adjust the DIP switches to set the length of time for which the luminaire will hold at the pre-set dimmed level:

- If '+∞' is selected, the luminaire will not switch off

	8	9	10	
I	●	●	●	10s
II	●	●	○	5min
III	●	○	○	10min
IV	○	●	○	30min
V	○	○	●	1h
VI	○	○	○	+∞




### Standby dim level

Adjust the DIP switches to set the dim level during the standby period:

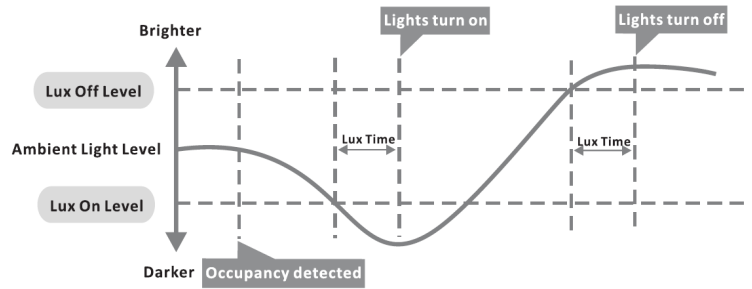
- If '0%' is selected, the luminaire will not dim
- 10% = Vdim 1.5V, 30% = 3.0Vdim, 50% = 5.0Vdim

	11	12	
I	●	●	0%*
II	●	○	10%
III	○	●	30%
IV	○	○	50%



### Dual Photocell

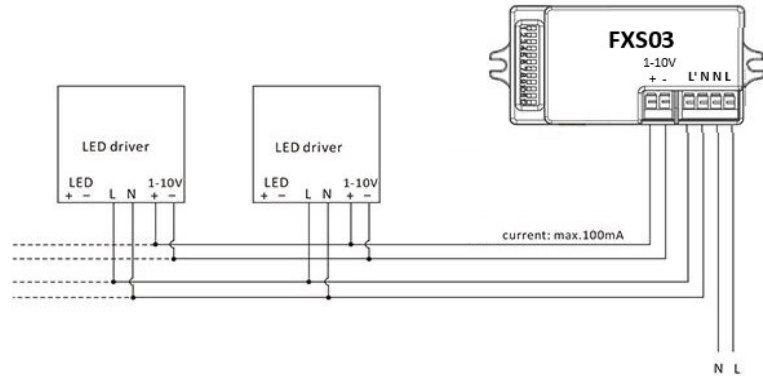
Using dual photocell technology, FXS03 can differentiate between natural light and artificial light from behind the diffuser. It can switch the luminaire off automatically whenever ambient light is sufficient.



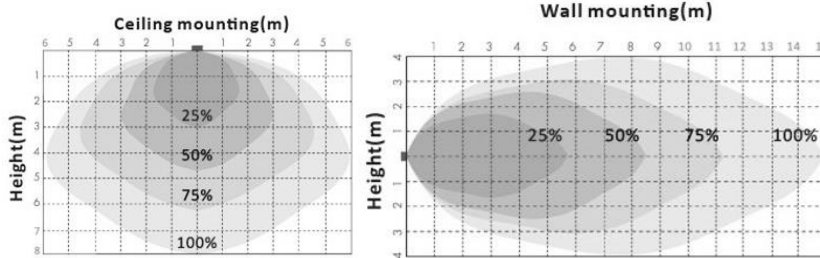
### Typical Connection Diagram

⊙ Double insulated

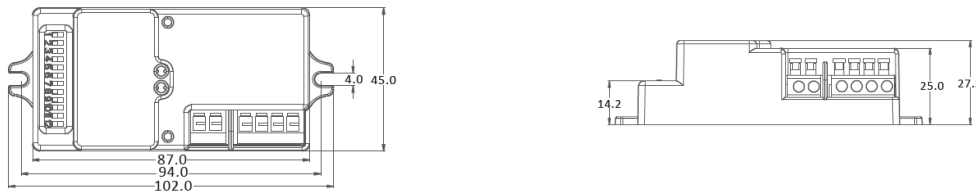
NB. Double insulation shall be maintained between LV mains supply and control conductors.



### Detection Pattern



### Dimensions



### COMPLIANCE

- ✦ EN 55015:2013 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- ✦ EN 61547:2009 Equipment for general lighting purposes — EMC immunity requirements
- ✦ IEC 61000-3-2 Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions
- ✦ BS EN 61000-3-3:2008 Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
- ✦ EN 61058-1:2002/A2:2008 Switches for appliances - Part 1: General requirements
- ✦ LVD 2014/35/EU
- ✦ RoHS

[1] Terms and conditions apply. See website for details.