

Microwave Movement Sensor

This product is fitted with a microwave movement sensor. Please see below detailed operating instructions.

Technical Specifications:

Operating voltage	220 ~ 240V AC 50/60Hz	
Rated load	400W (Capacitive load) 800W (Resistive load)	
Stand-by power	≤ 0.5W	
Sensitivity	Ceiling mounted height: 3m	100% / 75% / 50% / 25% / 10%
	Ceiling mounted height: 6m*	100% / 75% / 50%
	Wall mounted height: 2m	100% / 75% / 50% / 25% / 10%
Hold-time	5s / 30s / 90s / 3min / 20min / 30min	
Daylight sensor	2Lux / 10Lux / 25Lux / 50Lux / Disable	
Microwave frequency	5.8 GHz ±75MHz	
Transmitting power	1mW Max.	
Detection range	Ceiling mounted height: 3m	3- 6m (radius )
	Wall mounted height: 1.5-2m	12-15m
Detection angle	360° (Ceiling) / 120° (Wall)	
Working temperature	-20°C ~ 60°C	


\*50%, 75%, 100% detection sensitivity is workable when installed at 6m mounting height. Only 10%, 25% sensitivity is not able to detect motion signal.

Settings:

1. Sensitivity

Sensitivity can be adjusted by selecting the combination on the DIP switches for different applications.

I – 100%  
II – 75%  
III – 50%  
IV – 25%  
V – 10%




	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	●	○	●	50%
IV	○	○	●	25%
V	○	○	○	10%

2. Hold-time

Hold-time refers to the time period that the light remains 100% on if no more movement is detected.

I – 5s  
II – 30s  
III – 90s  
IV – 3min  
V – 20min  
VI – 30min




	4	5	6	
I	●	●	●	5s
II	○	●	●	30s
III	●	○	●	90s
IV	○	○	●	3min
V	●	●	○	20min
VI	○	○	○	30min

3. Daylight sensor

Different daylight threshold can be preset on DIP switches. Light will always turn on upon movement if daylight sensor is disabled.

I – 2Lux  
II – 10Lux  
III – 25Lux  
IV – 50Lux  
V – Disable



	7	8	9	
I	●	●	●	2Lux
II	●	○	○	10Lux
III	○	●	●	25Lux
IV	○	○	○	50Lux
V	○	○	○	Disable*

\*Disable means the daylight sensor does not work. The sensor will turn on light once motion is detected regardless of ambient light level.

Trouble shooting:

Malfunction	Cause	Remedy
The light will not come on	Incorrect light-control setting selected	Adjust daylight threshold setting
	Faulty lamp	Replace lamp
	No power supply	Check power to sensor
The lamp is always on	Continuous movement in the detection zone	Check detection area setting
The lamp is on without any identifiable movement	The sensor is not mounted for reliably detecting movement	Securely mount enclosure
	Movement occurred, but not identified by the sensor (Movement behind wall, movement of small object in immediate lamp vicinity etc.)	1. Reduce sensitivity. 2. Check the movement behind walls to avoid facilities such as water pipe, fan, which may mis-trigger the sensor.
The lamp will not work despite movement	Rapid movements are being suppressed to minimize malfunctioning or the detection radius is too small.	Check detection area setting

Care and Safety

- We recommend cleaning with a soft dry cloth. Do not use solvents or abrasive cleaners as these could damage the finish.
- For your safety, always switch off the power supply before cleaning.

Instruction leaflet

Vigor EM LED MV Bulkhead

50952







Thank you for purchasing this light fitting. Please read the instructions carefully before use to ensure safe and satisfactory operation of this product. Please retain these instructions for future reference.

## Warning

<p><b>This is a Class 1 product and must be earthed.</b></p> <p>Please read these instructions carefully before commencing any work.</p> <p>This unit must be fitted by a competent and qualified electrician.</p> <p>Install in accordance with IEE Wiring regulations and current Building Regulations.</p> <p>To prevent electrocution switch off at mains supply before installing or maintaining this fitting. Ensure other persons cannot restore the electrical supply without your knowledge. If you are in any doubt, please consult a qualified electrician.</p>	<p>This light fitting should be connected to a circuit with a 30mA RCD fitted.</p> <p>If replacing an existing fitting, make a careful note of the connections.</p> <p>This system contains non-replaceable parts and cannot be serviced. If damage occurs the part should be scrapped.</p> <p>Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.</p>
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## Technical data

Supply Voltage:	240V~, 50 Hz	Lumens : 120Lm in EM mode Duration : 3 hours (180 minutes) Operating Temperature : 0°C to 50°C Maximum Operating Humidity : 90%	Change over Time : Approximately 1s Battery Specification : LifeP04 3.2V 1500mA Battery Charge Time : 24 hours Battery Warranty : 2 years
Bulb Type:	16W LED module (SMD) & 2W LED module (SMD), 4000K		
	Conformity with all relevant EC Directive requirements.		
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.		
	This is a Class 1 product and must be earthed.		
	This product is not suitable for dimming.		
IP65	This product is rated at IP65.		

## Layout

- Plan the desired layout of these fittings carefully, ensuring the cables will reach the distance between the junction box and the light fitting.
- Avoid locating any cables in positions that would cause a hazard. Position cables and junction boxes (not supplied) away from areas where they may be at risk from being cut, trapped or damaged.
- The mains supply cable must have a minimum cross section area of 1.0mm².
- Cables must be protected using suitable conduit or plastic trunking.
- The products can be wall or ceiling mounted. If wall mounting ensure that the power supply is at the bottom.

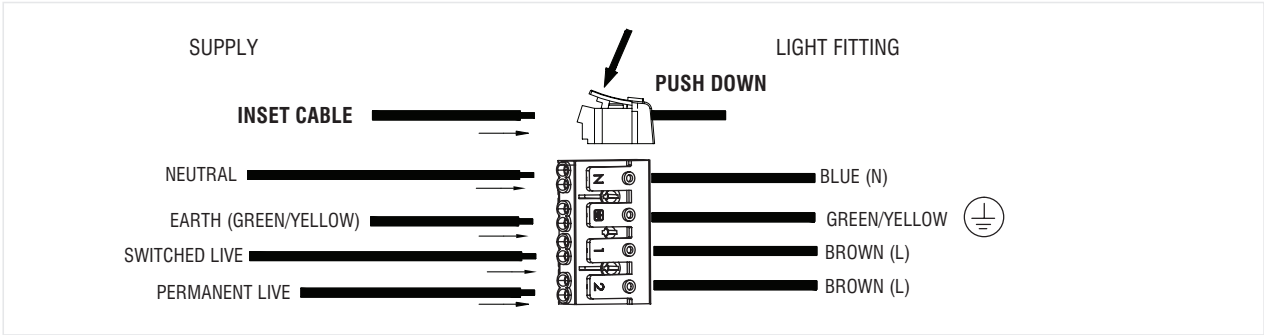
## Installation

Existing fittings must be completely removed before installation of a new product. Before removing the existing fitting, **carefully note the position of each set of wires.**

- Note that the switch is turned off before installation.
- Open the shade and set aside.
- Hold the product in place and mark the position of the holes.
- Ensure the wall is capable of holding the weight of the product, or if fitting to a ceiling, ensure there is a joist at the point of fixing to support the weight of the product. Take care to avoid damaging any concealed wiring and pipes. The correct fixings should be used for brick, cavity walls or plasterboard.
- Fix into position.
- Pierce the hole in the grommet, and pull the cable through.
- Wire as detailed below.

## Wiring

- Having correctly identified the wiring from your existing light fitting, pull the mains wire through the hole and connect to the quick fit connection block in the following way. No tools are necessary.



## Check that...

- You have correctly identified the wires.
- The connections are tight.
- No loose strands have been left out of the connection block.

## Commissioning

- Ensure that the screws and cable entry points are sealed to maintain the IP rating of the product.
- Refit the shade, ensuring that the seals are correctly located.
- Replace fuse or circuit breaker and switch on. Your light is now ready for use.

## Operation

- This unit works in maintained mode. The fitting can be switched separately on or off. The unit will charge automatically (LED is green). A single LED remains on when the supply is interrupted.
- Locate the fly lead on the inverter and plug into the connector.
- Replace fuse or circuit breaker and switch on. Ensure that the source is mains (240V~ 50Hz).
- Verify that the Green LED is illuminated; this confirms that the batteries are charging.
- Charge the battery for at least 16 hours before first use.
- If the LED is not illuminated then there may be no a.c. supply, the battery has not been connected properly or the internal circuit may have failed.
- The battery should be re-charged and checked every three months.
- The battery should be discharged and the duration of the lamp in emergency mode checked every six months.

## Battery Replacement

- If after routine operation check, the lamp does not remain lit for the set period, a new battery may be required.
- Switch off the electricity at the mains, allow batteries to fully discharge then reconnect to supply and allow to charge for 24 hours.
- Test again for two hours, if light does not remain lit change the inverter / battery unit as follows:  
Obtain a replacement battery / inverter unit. Make a note of the wiring, and remove unit from plate and refit the new one. Undo the screws under the battery to release it from the gear tray and unplug if from the driver. Plug the new battery into the driver and refit the screws to secure the new battery to the gear tray.
- Perform full operation check and update test record.
- Refit the shade. Ensure that the seal is correctly located.
- Restore power and allow to charge for at least 16 hours.

## Fitting/replacing bulbs

- This system contains non-replaceable parts and cannot be serviced. If damage occurs the part should be scrapped.