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)	Ad				
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		$5.8 \text{ GHz} \pm 75 \text{MHz}$					
Transmitting power		1mW Max.					
Detection range	Ceiling mounted height: 3m	3-6m (radius)					
g-	Wall mounted height: 1.5-2m	12-15m					
Detection angle		360° (Ceiling) / 120° (Wall)					
Working temperature		$-20^{\circ}C \sim 60^{\circ}C$					
*E00/ 7E0/ 1000/ dat	action constituit	, is warkable when installed at Cm mounting beight. Only 100/ 050/	_				

220~240V output control ble detection are Hold-time 50~2 220~240V input \mathcal{N} Control Gear

Different daylight threshold can be preset on DIP

switches. Light will always turn on upon movement if

II •

IVO

V O

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

7 8 9

I I 2Lux

00

III O • • 25Lux

 \cap

○ ○ Disable*

10Lux

50Lux

Daylight senso

3. Daylight sensor

I – 2Lux II- 10Lux 🛱

III – 25Lux

IV – 50Lux

V - Disable

daylight sensor is disabled.

*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:

 Sensitivity Sensitivity can be adjusted by selecting the combination on the DIP switches for different applications. 							2. Hold-time Hold-time refers to the time period that the light remains 100% on if no more movement is detected.						
I-100%		1	2	3			I – 5s		4	5	6		
II – 75% 💾	Ι				100%	% II – 30s 🛉	Ι				5s		
III — 50% 📮	II	0			75%		III – 90s 📮	II	0			30s	
IV $-$ 25% $^{\circ}$	III		0		50%		IV – 3min $^{\circ}$	III		0		90s	
V- 10%	IV	0	0		25%		V – 20min	IV	0	0		3min	
	V	0	0	0	10%		VI – 30min	V			0	20min	
					·			VI	0	0	0	30min	

Trouble shooting: Malfunction Cause Remedy Cause Remedy Adjust daylight threshold setting Incorrect light-control setting selected The light will not come on 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 sensor is not mounted for reliably Securely mount enclosure detecting movement The lamp is on without any 1. Reduce sensitivity. identifiable movement Movement occurred, but not identified by the 2. Check the movement behind walls to avoid facilities such as sensor (Movement behind wall, movement of water pipe, fan, which may small object in immediate lamp vicinity etc.) mis-trigger the sensor. Rapid movements are being suppressed to The lamp will not work Check detection area setting minimize malfunctioning or the detection despite movement radius is too small.

Care and Safety

• We recommend cleaning with a soft dry cloth. Do not use solvents or abrasive cleaners as these could damage the finish.

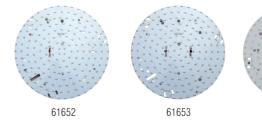
· For your safety, always switch off the power supply before cleaning.



Luik LED Bulkhead & Gear Tray

61646, 61647, 61648, 61649, 61650, 61651, 69231, 69232, 69233





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

Please read these instructions carefully before commencing any work

This unit must be fitted by a competent and gualified electrician.

Install in accordance with the IEE Wiring regulations and current Building Regulations.

Check the pack and make sure you have all the parts listed.

To prevent electrocution switch off at the mains supply before installing or maintaining this fitting. Ensure other persons cannot restore the electrical supply without your knowledge.

This light fitting should be connected to a circuit with a 30mA RCD fitted.

If replacing an existing fitting, make a careful note of the connections.

The mains supply cable must have a minimum cross section area of 1.0mm².

The products can be wall or ceiling mounted. If wall mounting ensure that the power supply is at the bottom

69231 : White plain

69232 : White Evelid

69233 : White Grill

Please note that the entire unit gets hot whilst on for a period of time.

Technical data

Supply Voltage:	240 V~, 50 Hz
Bulb Type:	18W LED module, 4000K
	The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire or the gear tray shall be replaced
CE	Conformity wilt all relevant EC Directive requirements.
	Class I product, must be connected to earth
X	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.
(P65)	This product is rated at IP65.

Emergency

Duration: 3 hours (180 Minutes) Operating Temperature: 0 °C-50 °C Maximum Operating Humdity: 90%

Available combinations

Casing:

61646 : Black plain 61648 : Black eyelid 61650 : Black grill

Gear tray:

61652: standard (non-dimmable) 72180: Microwave

Battery Specification: LiFePO4 3.2V 1500mAh Battery Charge Time: 24 Hours Battery Warranty: 2 years

Change Over Time: Approximately 1s

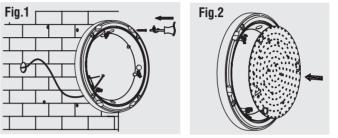
61647 : Grey plain 61649 : Grey evelid 61651 : Grey grill

61653: Emergency 72181: Emergency + Microwave

Installation

Existing fitting 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 closed before installation.
- The surface must be flat and smooth to ensure a good fit.
- 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.
- . The help of an assistant is recommended when installing this fitting.
- · Remove the shade from the fitting by loosening the screws with the supplied hex key.



Emergency Operation

- This unit works in maintained mode. The fitting can be switched separately on or off. The unit will charge automatically (LED is green). Several LEDs will remain on when the supply is interrupted.
- Locate the flying lead on the inverter and plug into the connector.
- Replace fuse or circuit breaker and switch on. Ensure that the source is mains (240V \sim 50Hz).
- · Verify that the Green LED is illuminated; this confirms that the batteries are charging.

Battery Replacement

- 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:

Wiring (For 61653 and 72181 gear tray)

NOTE: The Earth cable connected to the casing must be connected to the output side of the terminal block. This product can be configured in the following formats:

- Non-maintained- connect a Permanent live feed to terminal marked "2" - Maintained- connect a Live feed to terminal marked "1" add a jumper between terminals "1" and "2"
- Switch maintained- connect a switched live feed to terminal marked "1" and permanent live feed to Terminal marked "2"

Wiring (For 61652 and 72180 gear tray)

Having correctly identified the supply wiring, connect to the connection block mounted to the rear of the gear tray as shown below. NOTE: The Earth cable connected to the casing must be connected to the output side of the terminal block.

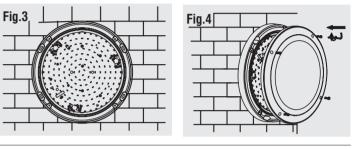
Check that...

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

• Using the casing as a template, mark the position of the fixing holes. The casing has 4 "knock outs" for cable or conduit entry. It is necessary to knock out the appropriate panel to allow the supply cable to enter the casing. If using conduit, a hole will also need to be drilled through the outer rim to fit the conduit. The knock out must be fitted with a rubber grommet to protect the cable.

• Fix the wall back in place using the supplied screws and wall plugs (Fig. 1).

- Locate the gear tray onto the retaining clips (Fig. 2).
- Rotate the clips to secure the trav into the casing (Fig. 3).
- Refit the polycarbonate diffuser and outer bezel (Fig. 4).
- · Connect the wiring. Your light is now ready for use.



- Charge the battery for at least 24 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.

• Obtain a replacement battery / inverter unit. make a note of the wiring, and remove from plate and refit the new one. Undo the screws under the battery. to release it from the gear tray and unplug it 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 24 hours.

