

Read all instructions before installation. This instruction manual is to be left at the installation site. This movement detector must only be connected to a 230-240Vac 50Hz supply by a licensed electrician.

### 1 Specifications

Supply Voltage: 230-240V a.c. 50Hz	
	3 Wire
Min. Load	0VA
Max. Load	2400W Incandescent 2400VA Fluorescent 1200VA LED

Operating Temp.	0° to 40°C
Mounting height	1.8 to 2.4m
Weatherproof rating	IP66
Standby	0.5W
PIR Detection Angle	120°
Contact Status	Normally Open
Range Sensitivity Adjustment	1m to 18 m
Light Sensitivity Adjustment	10 Lux to Full Sun
Timer Adjustment	8 secs to 15 min
Active Detection	PIR, Microwave and Photoelectric
Head Swivel	120°

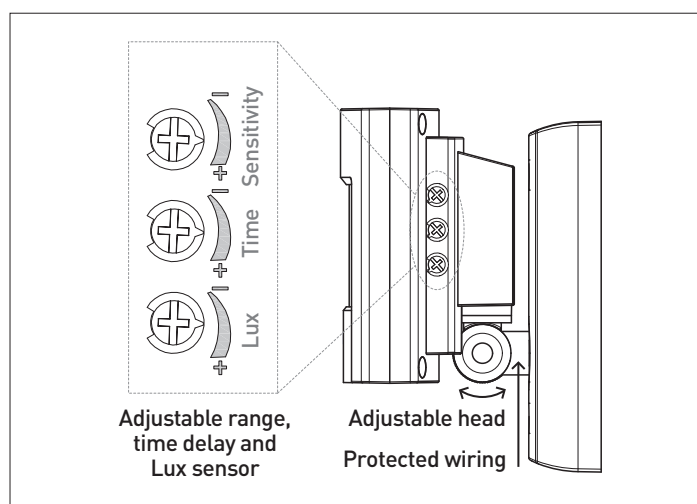
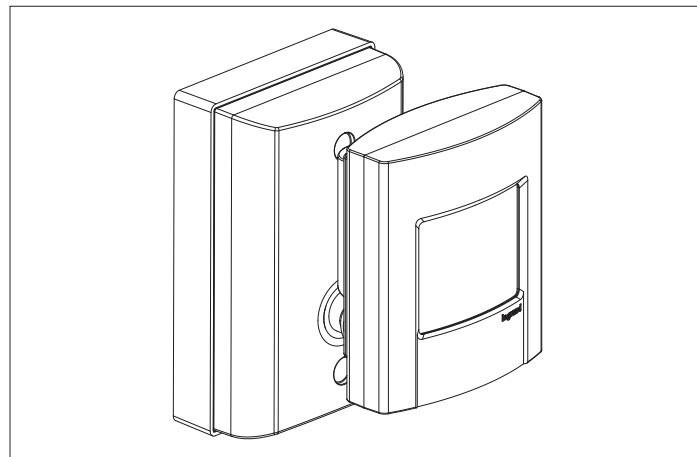


Figure 1

### 2 Installation

The movement detector has been designed for a harsh climate, complying with the strict IP66 rating and is intended to be used in outdoor installations, however the detector can be installed indoors.

The detector can be installed on the ceiling surface or on the wall. It must be installed onto the (included) surface mounting block to maintain IP66 rating. The recommended mounting height of the detector is 2.4m.

The head should be oriented in such a way that the expected traffic is moving across the field of view of the detector and not directly towards it. Refer to Figure 2.

To change the head orientation, adjust the head position by hand to the desired position. Refer to Figure 3 to see different mounting options.

Add silicon flush caps (provided) to mounting holes to maintain IP66 rating.

If you intend to use multiple sensors on the same circuit ensure sensing range/area does not overlap.

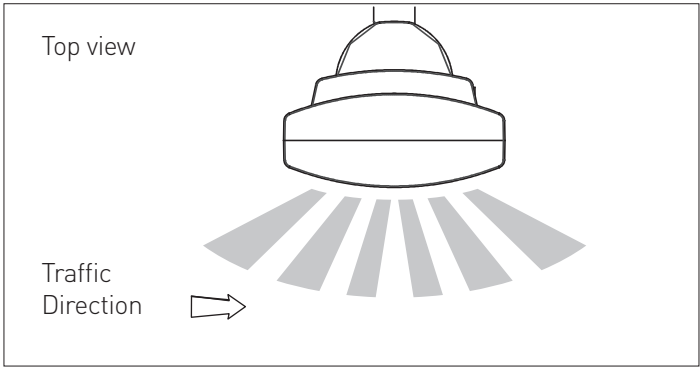


Figure 2

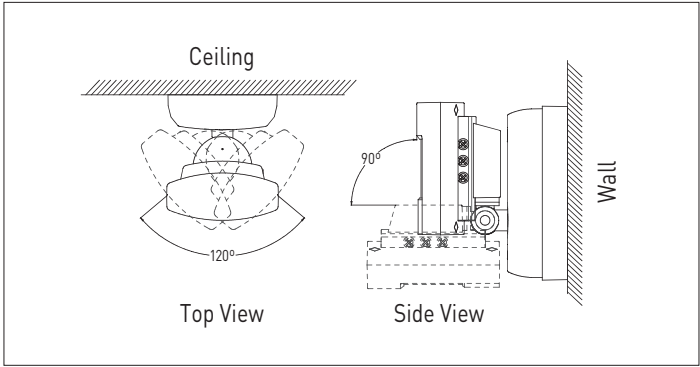


Figure 3

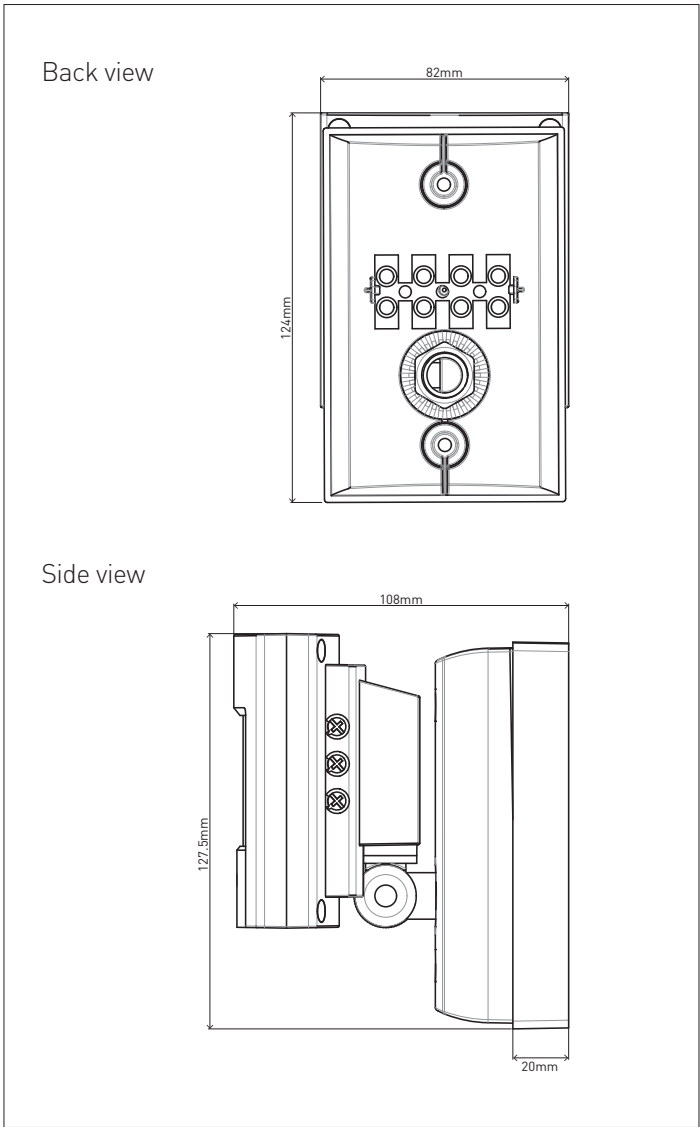


Figure 4

	3 wire
Auto	
Auto & ON override	<p>Switch: CAT EM770</p>
Auto & OFF override	<p>Switch: CAT EM770</p>
Auto & ON & OFF switch	<p>Switch: CAT 770RS180M CAT EMRS</p>

Figure 5

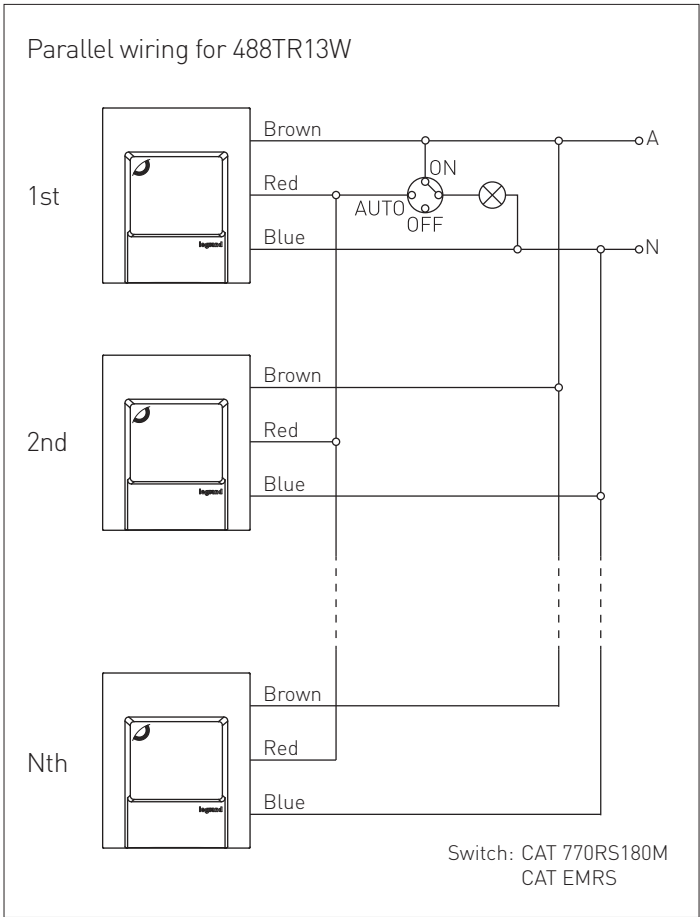


Figure 6

Remote loads can be connected up to the maximum rating. Refer to Figure 5 for electrical connection options.

Note: Different connection and configuration options are possible, e.g. for remote control of detector's operation. All wiring for such circuits must be done by a licensed electrician.

### 3 Setting Up

Before the detector is commissioned for operation it should be tested by a "Walk test":

1. Set Sensitivity and Lux adjustment knobs, see figure 1, to fully clockwise position and Time knob to fully anti-clockwise position.
2. Turn the power on and allow 1 minute for the sensor to warm up before proceeding.
3. Adjust the head position as required. See figure 3.
4. Walk across the detector's view range to ensure the light turns on and off.

To setup the detector for day-to-day operation adjust the knobs so that their settings reflect the desired mode of operation.

Note: Adjusting for the correct light level is dependent on the ambient light and it could take several days until the right light level setting is found.

### 4 Operation

The detector will turn the load on if a warm body moves in its viewing range. The Range Sensitivity adjustment knob determines the range.

The movement detector can be setup so that it only turns the load on when it is dark. The setting of the Lux adjustment knob determines the light level at which the Detector starts operating the load.

The load stays turned on for a predetermined amount of time. The time that the load stays turned on depends on the setting of the Timer adjustment knob.

### 5 Range Sensitivity

The detector can be adjusted to react to different levels of movement and at different distances.

At its most sensitive setting it may detect a small child or animal at a full distance. At the least sensitive setting it may require a large person at a close distance to detect movement.

The detector may detect movement under certain conditions that could be interpreted as false operation. Ensure you place the detector carefully, taking into consideration surrounding objects that may be detected by the sensor, such as passing cars, waves in the swimming pool, tree branches moving in the wind or any other movement of warm objects or warm air.

These conditions may cause unwanted operation of the detector, while the detector itself is still working correctly. The user has to be aware of these conditions and should take measures to minimize the possibility of their occurrence.

**Note: The range of movement detection depends on external conditions such as the ambient temperature, body temperature, clothing, speed of movement, etc.**

### 6 Light Sensitivity

The movement detector can be setup to operate during different light conditions, such as night only or day and night. At the minimum 'Lux' control setting the sensor will detect movement only when it is dark. At the maximum setting the sensor will operate during day and night. In that way users can adjust the operating conditions to suit their needs and save energy.

**Note: Use a screwdriver as tool.**

### 7 Timer

The time that the load stays turned on can be varied from 8 secs to 15 mins. Rotating the 'Time' knob anti-clockwise reduces load 'ON' duration. This feature allows the user to balance energy savings and convenience.

## 8 Troubleshooting

PROBLEM	POSSIBLE CAUSE	SUGGESTED SOLUTION
Light does not switch ON when there is movement in the detection area.	1. No mains voltage.	Check all connections, circuit breakers and switches.
	2. Bulb faulty or missing.	Check and replace if required.
	3. Nearby lighting is too bright.	Redirect the sensor or relocate the unit.
	4. Controls set incorrectly.	Readjust the sensor angle or control knob.
	5. Sensor positioned in wrong direction.	Redirect the sensor and/or adjust.
Light switches ON for no apparent reason (false trigger).	1. Heat from lamp body activating sensor.	Adjust PIR sensor or lamp body to allow a minimum gap of 40mm between lamp body and sensor head.
	2. Heat sources such as air-con, vents, heater flues, barbecues, other outside lighting or moving cars are activating sensor.	Adjust direction of sensor head away from these sources.
	3. Animals/birds e.g. possums or domestic animals.	Redirecting sensor head may help.
	4. Interference from switching off electric fans or lights on the same circuit as your sensor.	Should the false triggering become troublesome, consider: (a) have the other switches checked for arcing faults; (b) replacing noisy fluorescent tubes and/or starters and (c) connecting the sensor to a separate circuit. (In most cases where one or more of the above suggestions have been carried out, false triggering has been reduced).
	5. Reflection from swimming pool or reflective surfaces.	Redirect sensor
Light remains on.	1. Continuously false triggered.	Redirecting sensor head may help.
	2. Time adjustment is set too long.	Reduce time.
Light switches on during daylight.	Lux control knob is set to daylight position.	Turn the Lux control knob to desired light level setting.
When setting Lux controls in daylight the detection distance becomes shorter.	Interference by sunlight.	Re-test at night.

### Disclaimers:

This product must be installed and used as per these instructions and installed by a licensed electrician. An IP rating of IP66 is generally considered suitable for fully exposed external installations and for areas subject to hose down. The IP rating of this product is only valid when installed on a flat and non-porous surfaces. Additional sealing may be required for irregular surfaces. The fixing screws on this product should be tightened to a maximum torque of 0.8Nm. Over tightening may damage the product. This product contains no serviceable parts and no attempt should be made to repair it. If the product is faulty it should be discarded. This product has been designed to operate in ambient temperatures 0°C to 40°C. Extended exposure to UV rays (such as exposure to direct sunlight) may cause discolouration of this product. This product is not suitable

for installation in hazardous and/or corrosive areas. The material in this product may vary in colour from batch to batch. Colour matching from one batch to another cannot be guaranteed. Electrical installations periodically receive transient over voltages. This product has been designed to minimise the effect of such voltages on connected equipment. It may not give full protection for extreme overvoltage transients such as those resulting from a close lighting strike. This product has been designed to operate on a nominal supply voltage of 230V -6% to 240Va.c. +6%. This product utilises Intellectual property in the form of registered designs, trademarks, and/or patents. Such intellectual property remains the property of HPM Legrand in all cases. HPM Legrand reserves the right to modify the specification of this product at any time.

### Warranty

HPM Legrand warrants this product for a period of five years from the date of purchase.

These goods come with guarantees that cannot be excluded under the Australian and New Zealand Consumer Laws. You are entitled to a replacement or a refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired if the goods fail to be acceptable quality and the failure does not amount to a major failure.

See the Warranty card enclosed with this product for further details.

### Customer Service

For all Customer Service and Technical Support please call Monday to Friday during business hours.

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