



CONTENTS	Page
1. Use.....	1
2. Technical characteristics .....	1
3. Dimensions.....	2
4. Connection.....	2
5. Installation .....	2
6. Operation .....	3
7. Parameter setting.....	3
8. Performance.....	5
9. Care.....	5
10. Standards .....	5

**1. USE**

This PIR (passive infrared) presence detector provides automatic control of lighting loads with optional manual control.

It is specially designed to be mounted on a batten-style luminaire.

The unit detects movement using a PIR sensor and turns the load on. When an area is no longer occupied, the load will switch off after an adjustable timeout period.

The output channel includes a mains voltage switching relay for ON/OFF control of lighting.

The units are IP65 rated as standard and are suitable for outdoor use as well as wet and wash-down areas.

A selection of fixing washers and spacers is supplied to aid fixing to a variety of luminaires.

All functionality is fully programmable using an infrared configurator.



**2. TECHNICAL CHARACTERISTICS**

**PIR sensor**  
 Detects movement within the unit's detection range, allowing load control in response to changes in occupancy.

**IR receiver**  
 Receives control and programming commands from the infrared configurator.

**Light level sensor**  
 Measures the overall Lux level in the detection area.

**LED status**  
 The LED flashes red to indicate the following:

<b>Walk test LED active</b>		<i>When movement is detected</i>
<b>Valid setting received</b>		

**TECHNICAL CHARACTERISTICS (CONTINUED)**

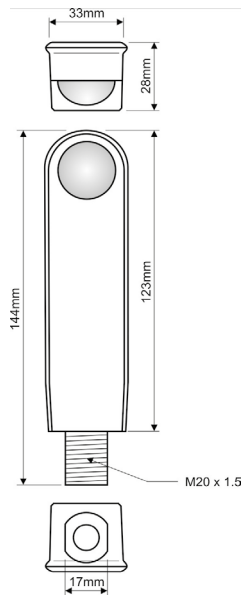
Dimensions	See dimensions section
Weight	0.1 kg
Power supply	230 VAC +/-10%
Frequency	50 Hz
Power consumption	ON 799 mW, OFF 807 mW
Operating temperature	-30°C to +35°C
Operating humidity	5 to 95% non-condensing
Material	Flame-retardant ABS/PC
Type	Class 2
Protection class	IP65

**2. TECHNICAL CHARACTERISTICS (CONTINUED)**

	①	②	③	④	⑤
230 V~	2 A	2 A	2 A	2 A	2 A
	⑥	⑦	⑧	⑨	⑩
230 V~	2 A	2 A	2 A	2 A	2 A

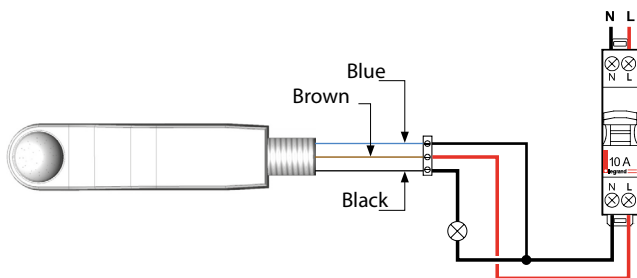
- 1 - Halogen lamps
- 2 - ELV halogen lamps with separate ferromagnetic ballast
- 3 - Fluorescent tubes with separate ferromagnetic ballast
- 4 - Compact fluorescent lamps with separate ferromagnetic ballast
- 5 - ELV halogen lamps with separate electronic ballast
- 6 - Fluorescent tubes with separate electronic ballast
- 7 - Compact fluorescent lamps with built-in electronic ballast
- 8 - Compact fluorescent lamps with separate electronic ballast
- 9 - LED lamps with separate electronic ballast
- 10 - LED lamps with built-in electronic ballast

**5. DIMENSIONS**



**3. CONNECTION**

Wire the products as shown in the diagram.



**4. INSTALLATION**

The unit is designed to be mounted directly on a batten-style luminaire.

The detector should be sited so that the occupants of the room are inside the detection area, at a recommended ceiling height of 2.8 m. The lower the sensor is installed, the smaller the detection range will be, subject to the parameters shown on the detection diagram.

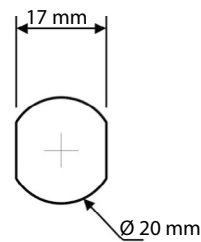
For optimum operation of the lux sensor, the lens must be shielded as much as possible from the light source.

Avoid direct sunlight being aimed at the sensor.

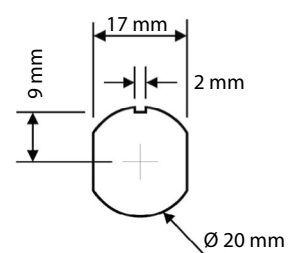
Do not site within 1 m of forced air heating or ventilation.

Do not fix to a vibrating surface.

**Mounting hole without key**



**Mounting hole with key**

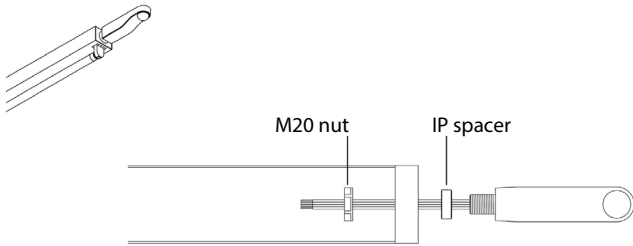


**Accessories supplied**

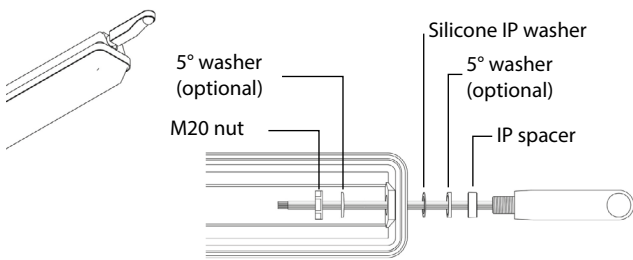
- IP spacer with silicone coating
- Silicone IP washer
- 1 x 5° washer
- 1 x 5° spacer
- M20 nut

**INSTALLATION (CONTINUED)**

**Mounting on standard luminaire**



**Mounting on sealed luminaire**



**Note:**

Use 5° spacers where the luminaire housing has a draft angle. Ensure that the silicone washer and/or IP spacer are used to maintain the IP rating.

**Power-up test procedure**

When power is applied to the unit, the load will turn on immediately. Set the timeout to 10 seconds, vacate the room or remain very still and wait for the load to switch off. Check that the load switches on when movement is detected. The unit is now ready for programming.

**6. OPERATION**

**Detection mode**

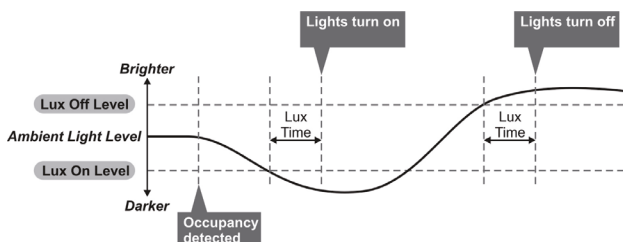
- Presence: When movement is detected, the load will automatically switch on. When an area is no longer occupied, the load will switch off automatically after an adjustable time period.

Sensitivity to movement of the PIR sensor can be adjusted using the Sensitivity parameter.

**HINT:** To assist in setting the sensitivity, turn on the Walk test LED which will flash red when movement is detected.

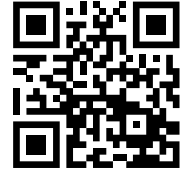
**Switching according to Lux level**

Occupancy detection can be made dependent on the ambient light level using the Lux On Level and Lux Off Level parameters.

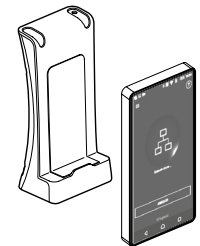


**7. SETTINGS**

• 0 882 40: Configuration gateway and Legrand Close Up application. The Close Up application is available on the Apple Store and the Play Store



The detector functions are controlled by a number of parameters which can be changed or programmed by an infrared configurator. In combination with configuration tool 0 882 40, the Legrand Close Up smartphone app can be used to view and modify all the detector parameters with online help. Point the infrared configuration tool at the detector and send the necessary programming commands to the unit as indicated in the table below. For more information about setting parameters, refer to the data sheet for the configuration gateway Cat. No. 0 882 40.



Valid commands will be indicated by a red flashing LED on the product, and the lighting switches off automatically for all read/write operations. Before changing the settings, an initialisation operation must be performed as suggested in the Legrand Close Up configuration app:

- 1 - Click on "Scan product settings"
- 2 - Click on "Settings details/copy"
- 3 - In the menu at the top right (...) select "Initialise"
- 4 - Click on "Write product settings"

This operation allows predefined setting of certain parameters.

**SETTINGS (CONTINUED)**

Parameter	Default value	Value after initialisation	Range/option	Description
<b>General parameters</b>				
LED operation test	Off	-	ON or Off	When this option is activated, a red LED on the sensor flashes when it detects movement. Use this function to check that the sensitivity levels are suitable.
Inhibit detection	No	-	Yes/No	Disables presence/absence detection so that the detector does not control switching, only dimming. Use this mode for light regulation without automatic control according to occupancy.
Timeout	20 minutes	-	0 to 99 minutes	Once the detector is turned on, this value sets how long the lights will stay on once movement has ceased. Select 0 for a 10-second period (for commissioning only).
Manual timeout period	10 minutes	-	0 to 99 minutes	<p>When a manual operation occurs, either via the switch input or the infrared, it invokes the timeout period.</p> <p>Example 1: a detector in presence mode has a detector timeout of 15 minutes and a manual timeout of 3 minutes. When the user leaves the room, they press the Off button. The sensor will revert to automatic mode after 3 minutes. Walking back into the room will turn the lights on.</p> <p>Example 2: using the settings above, the user turns the lights off (say for a presentation) but stays in the room. Every time a movement is detected, the manual timeout period is re-triggered, but if it doesn't pick up anything over a short period, the detector will revert to automatic mode. This means that the lights may come on inadvertently during the presentation, even if the occupants are still present during the manual timeout period, so adjust the timing carefully.</p>
On sensitivity	8	9	1 (min) to 9 (max)	Sensitivity level for detecting movement when the detector is already on.
Off sensitivity	8	9	1 (min) to 9 (max)	Sensitivity level for detecting movement when the detector is off.
On delay	0 minutes	-	0 to 99 minutes	The On delay allows the first channel to switch on after the second channel. A typical application for this would be when a detector is controlling lighting and air conditioning in an area. When the occupant is detected, the lighting will be turned on immediately, whereas the air conditioning may be turned on after 15 minutes. If the area is vacated before the detector times out, then the air conditioning will not have come on. The delay can be set for channel 1 only using this parameter.
Detection mode	Presence	-	Presence or absence	Presence mode allows the output to turn on when movement is detected and off when movement ceases. Absence mode allows the output to turn off when movement ceases, but must be manually turned on first.
Lux On level	999	200	1-950, 999: OFF dimming regulation	Sets a minimum light level below which the PIR sensor is enabled, allowing the lights to be turned on by movement. Note: The "Lux Off level" value must always be greater than the "Lux On level" value.
Lux Off level	999	400	1-950, 999: disabled	Sets a maximum light level above which the PIR sensor is disabled, preventing the lights from being turned on by movement.
Lux On time	0	-	0 to 99 minutes	When the ambient light drops below the Lux On Level, this is the delay before the lights come on. If at any time during the timed delay the Lux level position is reversed, the process is cancelled. A minimum time of 15 seconds is defined for a value of 0. If you try to turn on the lights using a manual control, the lights will come on regardless of the ambient light level. However, if there is sufficient ambient light, they will turn off again after the Lux Off time.
Lux Off time	0	1	0 to 99 minutes	When the ambient light exceeds the Lux Off Level, this is the delay before the lights go out. If at any time during the timed delay the LUX level position is reversed, the process is cancelled. A minimum time of approximately 15 seconds is defined for a value of 0.

**SETTINGS (CONTINUED)**

Parameter	Default value	Value after initialisation	Range/option	Description
<b>Manual control modes</b>				
Manual control mode	-	-	Shared 2-position push-button	A single centre-biased retractive switch will be used to control both channels at the same time.
	-	-	Separate 2-position push-button	-
	✓	-	Synchronised 1-position push-button	A single push-button controls both channels at the same time.
	-	-	Separate 1-position push-button	-

**8. TROUBLESHOOTING****1. If the load does not switch on**

- Check that the live supply to the circuit is correct.
- Check that the load is functioning by bypassing the detector (link terminals L and L/Out).
- If the detection range is smaller than expected, see the Performance section. Rotating the sensor slightly may improve the detection range.

**2. If the load does not switch off**

- Ensure that the area is left unoccupied for longer than the timeout period.
- Ensure that the detector is not affected by circulating air, heaters or lamps.

**3. In the event of "false tripping", reduce the sensitivity settings.****4. If the lighting loads never switch off**

- Reduce and adjust the value of the "Lux Off level" parameter and the "Lux On level" parameter in steps of 5 to 40.

Example:

- Lux On level = 190
- Lux Off level = 380

**5. If the lighting loads never switch on**

- Increase and adjust the value of the "Lux Off level" parameter and the "Lux On level" parameter in steps of 5 to 40.

Example:

- Lux On level = 220
- Lux Off level = 420

**6. If the lighting loads switch on and off permanently**

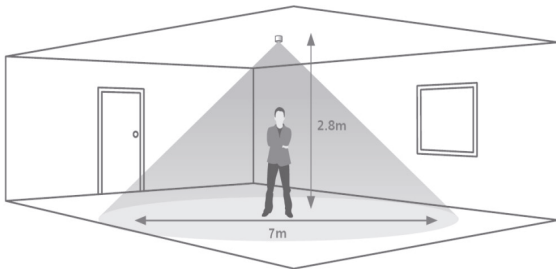
- Increase the difference between the value of the "Lux Off level" parameter and the "Lux On level" parameter.

Example:

- Lux On level = 190
- Lux Off level = 410

**9. PERFORMANCE**

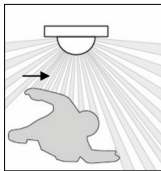
**Detection area**



High sensitivity area Low sensitivity area

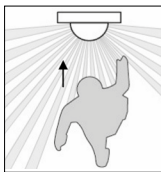
NOTE: The illustration shows an average of the walk across and walk towards figures below.

**Walk across**



Height	Diameter
7 m	16 m
2.8 m	9 m

**Walk towards**



Height	Diameter
7 m	10 m
2.8 m	5 m

**10. CARE**

Keep the lens clean, use a cloth to clean the surface.  
Do not use acetone, tar-removing cleaning agents or trichloroethylene.

**CAUTION: Always test before using other special cleaning products.**

**11. STANDARDS**

Directive: CE

Installation standards: NFC 15-100

Product standards: NF EN 60730-1

Environmental standards:

- WEEE (Waste Electrical and Electronic Equipment)
- European Directive 2002/95/EC: <a>RoHS (Restriction of Hazardous Substances)
- Decrees and/or regulations: Public buildings, workplace buildings, high-rise buildings

Conformity

- EMC-2014/30/EU
- LVD-2014/35/EU