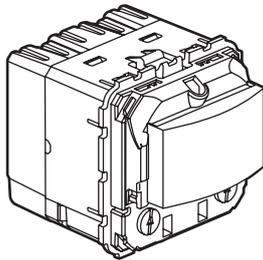
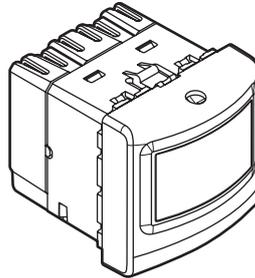


Switch sensor 3-wire - 2000 W

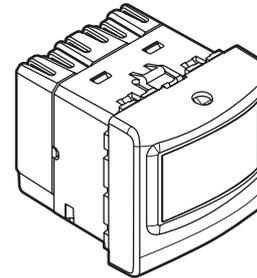
Cat. No(s): 0 670 99 - 0 784 54 - 0 791 58L - 0 792 58
 5 740 47/97 - 5 741 40/41



0 670 99



0 784 54 - 0 791 58L - 0 792 58



5 740 47/97 - 5 741 40/41

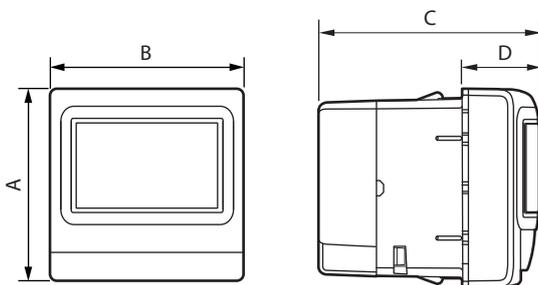
1. USE

Switch sensor with neutral, infrared detection (PIR).
 Allows a light source to be controlled automatically through the detection of any presence in the surveillance zone.
 Presence sensor with 120° detection angle.
 For flush-mounting, back box to be min. 40 mm deep.
 To be equipped with plate.

2. RANGE

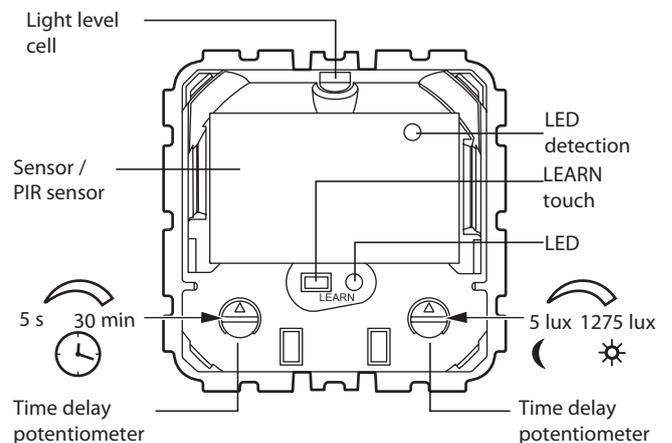
| Description | Colour | Cat. Nos |
|---|------------|-----------|
| Switch sensor 2000 W Céliane 3-wire with neutral | - | 0 670 99 |
| Switch sensor 2000 W Mosaic 3-wire with neutral | White | 0 784 54 |
| | Alu | 0 792 58 |
| | Matt Black | 0 791 58L |
| Switch sensor 2000 W Arteor 3-wire with neutral | White | 5 740 47 |
| | Magnesium | 5 740 97 |
| | Soft alu | 5 741 40 |
| | Champagne | 5 741 41 |

3. DIMENSIONS (mm)



| A | B | C | D |
|----|----|----|----|
| 45 | 45 | 51 | 16 |

4. PRESENTATION



5. CONNECTION

Number of terminals: 3
 Type of terminals: automatic
 Terminal capacity: 2 x 2.5 mm²
 Stripping length: 8 mm
 Compatible with flexible or rigid cables

6. TECHNICAL CHARACTERISTICS

■ 6.1 Mechanical characteristics

Protection against impact: IK 04

Protection against solid bodies and liquids:

- IP 20 mechanism alone
- IP 40 mounted product with rocker and plate

■ 6.2 Material characteristics

Colour: - White RAL 9003

- Aluminium
- Magnesium
- Soft alu
- Champagne
- Matt Black satin RAL 9017

Material: - Plate: ABS

- Halogen-free
- UV-resistant

Self-extinguishing:

850°C/30 s for insulating components holding live parts in place.

650°C/30 s for other insulating components.

■ 6.3 Electrical characteristics

Voltage: 100-240 V~

Frequency: 50/60 Hz

Standby consumption: 0.2 W

Output via normally open contact connected to the phase

Power:

| | | | | | | | | | | | | | | | | |
|---------------|--------|-------|---------|-------|---------|-------|---------------|-------|---------------|-------|--------|-------|--------|-------|--------------|--|
| | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 230 V~ | 2000 W | 8.5 A | 1000 VA | 4.3 A | 1000 VA | 4.3 A | 10 x (2x36 W) | 4.3 A | 10 x (2x36 W) | 4.3 A | 500 VA | 2.1 A | 500 VA | 2.1 A | I max. ≤ 2 A | |
| 110 V~ | 1000 W | | 500 VA | | 500 VA | | 5 x (2x36 W) | | 5 x (2x36 W) | | 250 VA | | 250 VA | | | |

1 - Halogen bulb

2 - ELV halogen bulb with separate ferromagnetic ballast

3 - ELV halogen bulb with separate electronic ballast

4 - Fluorescent tube with separate ferromagnetic ballast

5 - ELV fluorescent tube with separate electronic ballast

6 - Compact fluorescent bulb with built-in electronic ballast

7 - LED bulb with built-in electronic ballast

8 - Contactor

Important: Take account of transformer losses when calculating power. Transformers must be loaded at more than 60 % of their power.

Note: Possibility to mix any type of load on the same circuit.

■ 6.4 Climate characteristics

Usage temperature: -5°C to +35°C

Storage temperature: -10°C to +70°C

7. OPERATION

■ **7.1 More than one sensor and more than one load**

Auto ON/OFF mode:

The load will be switched on and off automatically.

Option:

It is possible to control the sensor by infrared remote control using:
Cat. Nos. 0 882 00/01/20/31/32/33.

Synchronising the products is done in two stage:

- one long press (>1s) all the sensors (S) switch to the ON state
- one short press all the sensors (S) switch to the OFF state

| | | | | |
|----------------------------|----------------------------|---------------------------------|----------------------------|----------------------------|
| L1 ON L2 OFF Ln OFF | D1 ON D2 OFF Dn OFF | BP $> 1 s$ $+$ $< 1 s$ | L1 OFF L2 OFF Ln OFF | D1 OFF D2 OFF Dn OFF |
| L1 ON L2 OFF Ln OFF | D1 ON D2 OFF Dn OFF | BP $< 1 s$ | L1 ON L2 ON Ln ON | D1 ON D2 ON Dn ON |
| L1 OFF L2 OFF Ln OFF | D1 OFF D2 OFF Dn OFF | BP $< 1 s$ | L1 ON L2 ON Ln ON | D1 ON D2 ON Dn ON |
| L1 ON L2 ON Ln ON | D1 ON D2 ON Dn ON | BP $< 1 s$ | L1 OFF L2 OFF Ln OFF | D1 OFF D2 OFF Dn OFF |
| L1 ON L2 OFF Ln OFF | D1 ON D2 OFF Dn OFF | BP $< 1 s$ | L1 OFF L2 ON Ln ON | D1 OFF D2 ON Dn ON |

7. OPERATION (continued)

■ **7.2 Several sensors connected to a single load**

| | | | | |
|-------|----------------------------|---------------------------------|-------|----------------------------|
| L OFF | D1 OFF D2 OFF Dn OFF | BP $< 1 s$ | L ON | D1 ON D2 ON Dn ON |
| L ON | D1 ON D2 ON Dn ON | BP $< 1 s$ | L OFF | D1 OFF D2 OFF Dn OFF |
| L ON | D1 ON D2 OFF Dn OFF | BP $< 1 s$ | L ON | D1 OFF D2 ON Dn ON |
| L ON | D1 ON D2 OFF Dn OFF | BP $< 1 s$ $+$ $> 1 s$ | L OFF | D1 OFF D2 OFF Dn OFF |
| L ON | D1 ON D2 OFF Dn OFF | BP $> 1 s$ | L ON | D1 ON D2 ON Dn ON |

7. OPERATION (continued)**7.3 Detection parameters**

| Sensor parameters | | Default value | Modifiable parameters | Configuration tools | |
|-------------------|---------------------|-----------------|------------------------------|----------------------|----------|
| | | | | 0 882 30 | 0 882 35 |
| Time delay | | 15 mn | 3,5,10,15,20 min | – | ✓ |
| | | | 5s - 59 min 59s | ✓ | – |
| Sensitivity | | PIR (very high) | Low, medium, high, very high | ✓ | ✓ |
| | | | Active | Activate/Deactivator | ✓ |
| Modes | Auto on/ Auto off | Inactivr | Activate/Deactivate | ✓ | ✓ |
| | Walk-through mode | | Activate/Deactivate | ✓ | ✓ |
| | Manual on/ Auto off | | Activate/Deactivate | ✓ | ✓ |
| Detection system | Initial | PIR | Not modifiable | ✓ | – |
| | Maintain | PIR | Not modifiable | ✓ | – |
| | Restart | PIR | PIR, Deactivator | ✓ | – |
| Alarm | | Inactive | Activate/Deactivate | ✓ | – |

 **Time delay:** Length of time the load is on after detection.

 **Sensitivity:** Detection range setting.

Modes: **Auto on/Auto off mode:****Comes on automatically:**

- At the detection of a presence if there is an insufficient natural level of light.

Turns off automatically:

- If no presence is detected and at the end of the time delay set.
- Or if the natural light level is sufficient (regulation activated)
Another detection causes automatic switch-on if there is insufficient light.

 **Walk-through mode:**

- If no presence is detected in the 20 seconds following an initial detection, the product will cut off the load after 3 minutes.
- If another presence is detected in the 3 minutes following initial detection, the device will cut off the load at the end of the set time delay.

 **Manual on/Auto off mode:****Comes on via a manual switch, automatic switch off:**

- Where no presence is detected and at the end of the time delay set. After switch-off, any new detection within a 30 second period triggers an automatic switch-on. The Restart function must be activated. After 30 seconds the device is switched on via a manual switch.

Detection system:

Initial detection: The load is switched on as soon as the first detection occurs if the natural light level is below the light level threshold.

Maintain: The load remains active if another presence is detected.

Restart: In manual mode. After switch-off, any new detection within a 30 second period triggers an automatic switch-on. After 30 seconds the device must be switched on manually.

Alarm: an audible signal is emitted before switch-off. (1 minute before, then 30 seconds, then 10 seconds).

7. OPERATION (continued)**7.4 Light parameters**

| Sensor parameters | | Default value | Modifiable parameters | Configuration tools | |
|-----------------------|--------------------|---------------|-----------------------------|---------------------|----------|
| | | | | 0 882 30 | 0 882 35 |
| Light level threshold | | 300 lux | 20, 100, 300, 500, 1000 lux | – | ✓ |
| | | | 5 - 1275 lux | ✓ | – |
| | | | 0 - 99995 lux | ✓ | – |
| Advanced mode | Calibration | – | 0 - 99995 lux | ✓ | – |
| | Regulation | Actif | Activer/Désactiver | ✓ | – |
| | Light contribution | Auto | Auto - 1275 lux | ✓ | – |

 **Light level threshold:** Value at which the load comes on if the natural light level is less than the setting.

Caution: At 1275 lux, the device becomes a motion sensor.

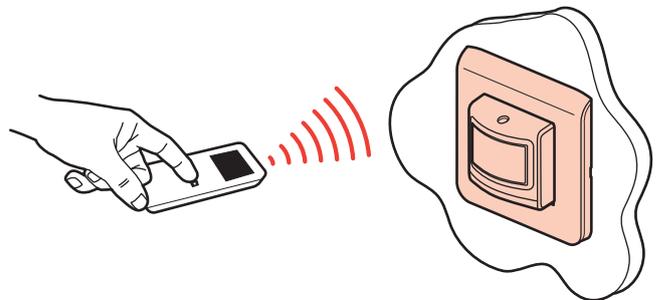
Advanced mode:

 **Calibration:** The ambient light level measured with a luxmeter must then be transmitted to the sensor (see data sheet Cat. No. 0 882 30).

 **Regulation :** Automatic switch-off of the load 10 minutes after the light level threshold is exceeded with an additional safety threshold (to avoid lights switching off at the wrong moment).

Light contribution: Quantity of additional lux provided by the load being switched on.

When the light contribution parameter is set to "Auto" (value 0) on the configuration tool Cat. No. 0 882 30 the sensor automatically calculates the light contribution.

7.5 Modifying the parameters using the configuration tools

- 0 882 35: Simplified configuration tool
- 0 882 30: Advanced configuration tool

When the sensor receives an IR command using the configuration tool, it emits a beep acknowledging the modification.

For more information about setting parameters, refer to the data sheet for the configuration tool Cat. No. 0 882 30.

Range: 1 m.

The potentiometers are active by default. Using a configuration tool deactivates all the potentiometers.

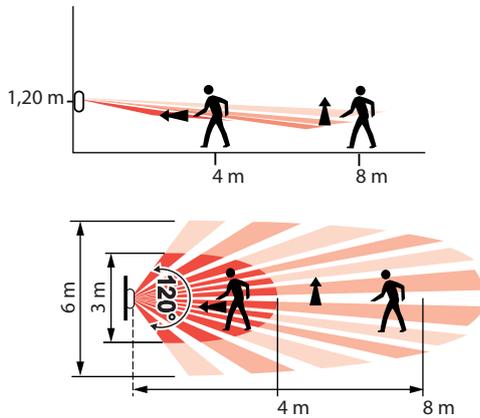
Reset the product to reactivate them.

- Restore to factory settings:

1st press: Short press on LEARN: the LED flashes slowly.

2nd press: Press and hold down LEARN for 10 seconds until the LED flashes quickly.

8. PERFORMANCE



■ 8.1 PIR detection (walk-through)

| Sensitivity | Ø (m) |
|------------------|-------|
| Low (25%) | 7 |
| Medium (50%) | 8 |
| High (75%) | 10 |
| Very high (100%) | 12 |

┘ 8.2 PIR detection (presence)

| Sensitivity | Ø (m) |
|------------------|-------|
| Low (25%) | 1 |
| Medium (50%) | 2 |
| High (75%) | 4 |
| Very high (100%) | 5 |

9. CLEANING

Clean the surface with a cloth.
Do not use acetone, tar-removing cleaning agents or trichloroethylene.
Resistance to the following cleaning substances:
Hexane (EN 60669-1), Methylated spirit, Soapy water, Diluted ammonia, Pure bleach diluted to 10%, Window-cleaning products, Pre-impregnated wipes.

Caution: Always test before using other special cleaning products.

10. STANDARDS AND APPROVALS

Compliant with installation and manufacturing standards.
See e.catalogue.

11. TROUBLESHOOTING

| PROBLEM | CAUSES | SOLUTIONS |
|--|--|--|
| Lighting stays on when there is no-one present | Sources of interference can cause false tripping, such as: air current, vibrations, radiators | 1- Reduce the sensitivity level 2- If the interference continues: using the configuration tool, go into the Detection system parameters, select Maintain and then choose PIR 3- If the interference still continues, move the sensor away from sources of interference |
| Lighting does not switch off during the day when there is an adequate level of natural light | Regulation function not active Light level threshold set too high Light contribution is too high | Activate the regulation function Reduce the light level threshold Check that the sensor is positioned correctly in relation to the window Decrease the power of the luminaires |
| Lighting switches off when there are people present and the natural light level is not adequate (darkness) | Time delay too short Detection sensitivity too low Light level threshold too low | Increase the time delay 10 to 1 minutes is recommended for work areas Increase the sensitivity Move the sensor closer to the work area Increase the threshold |