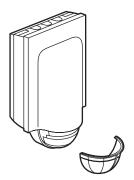


### **Corridor lighting management sensor - PIR**

Cat.No(s): 0 489 17



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2. Technical characteristics	1
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### 1. USE

This device allows a light source to be controlled automatically through the detection of movement in the surveillance zone.

It can be installed in places of passage such as corridors. It has an auxiliary output and can be used to control ventilation (switch to comfort ECO mode) when motion is detected.

Motion sensor with 180° detection angle.

Detection type: infrared (PIR) Mounting type: wall

### 2. TECHNICAL CHARACTERISTICS

Voltage: 100 - 240 V~ Frequency: 50/60 Hz

No-load power consumption: 0.6 W

Output via normally open contact connected to the phase

Wiring: 2 x 2.5 mm<sup>2</sup> Number of terminals: 6 Terminal type: screw Stripped length: 8 mm

Drilling diameter: 67 mm with flush-mounting box

Weight: 120 g Impact resistance: IK04

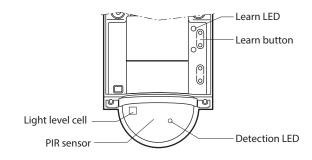
Penetration by solid and liquid matter: IP42 Operating temperature: -5 °C to +45 °C Storage temperature: -20 °C to +70 °C

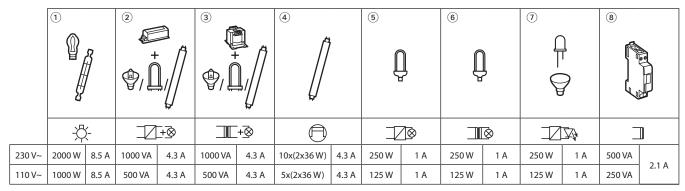
### 2. TECHNICAL CHARACTERISTICS (continued)

Products qualified for 40,000 operations

Zero current breaking: in order to limit the effect of the current draw on the cut-off relay by the fluorescent loads in particular, this sensor cuts out at zero current. Switching occurs when the voltage reaches 0 which helps to prolong the life of the power supplies and the sensor.

Cover removed

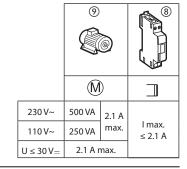




- 1 Halogen bulbs
- 2 ELV halogen, compact fluorescent and fluorescent bulbs with separate electronic ballast
- 3 ELV halogen, compact fluorescent and fluorescent bulbs with separate ferromagnetic ballast
- 4 Fluorescent tubes
- ${\bf 5}$  Compact fluorescent bulbs with built-in electronic ballast
- 6 Compact fluorescent bulbs with built-in ferromagnetic ballast
- 7 LED bulbs

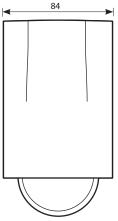
8 - Contactor

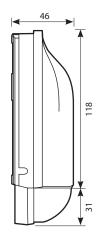
9 - Motor



### 3. DIMENSIONS

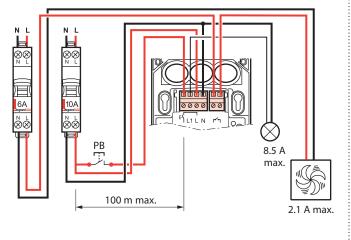




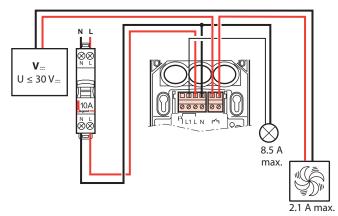


### 4. CONNECTION

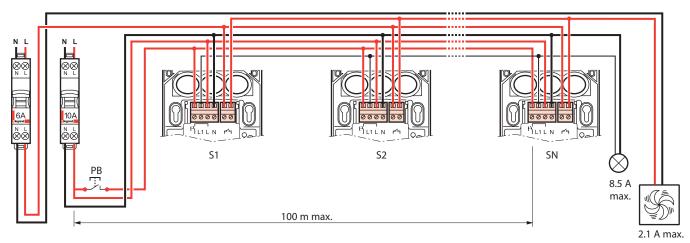
### ■ 4.1 Wiring with auxiliary control:



### ■ 4.2 Wiring without auxiliary control:



### ■ 4.3 Wiring for a single load connected in parallel

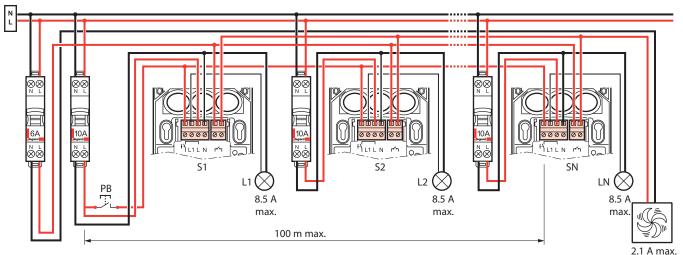


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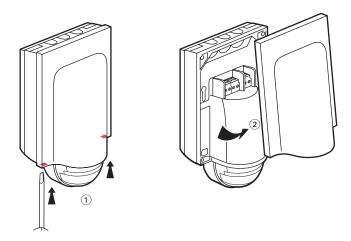
**CONTENTS** 2/8

### 4. CONNECTION (continued)

### ■ 4.4 Wiring for several loads connected in parallel



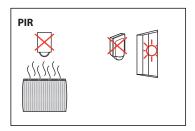
### 5. DISMANTLING



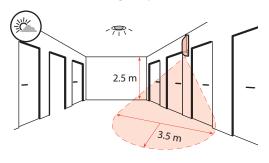
### 6. INSTALLATION

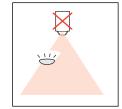
## ■ 6.1 Installation recommendations





### ■ 6.2 Recommended light exposure



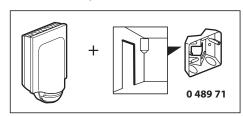


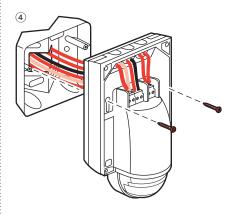
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## 6. INSTALLATION (continued) ■ 6.3 Positioning 1 60 mm 2 60 mm

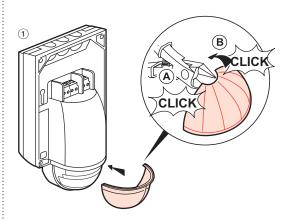
### 6. INSTALLATION (continued)

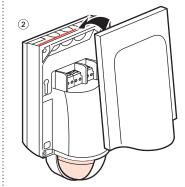
### ■ 6.3 Positioning (continued)

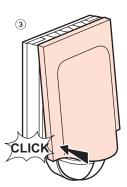




■ 6.4 Choice of detection zone







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### 7. OPERATION

### ■ 7.1 Outputs

- The load (lighting output) switches on when motion is detected (auto mode) or if the control is pressed (manual ON/auto OFF mode) and there is insufficient natural light.
- The load (lighting output) switches off at the end of the time delay or when the level of natural light is adequate.
- The load (auxiliary output) switches on when motion is detected (auto mode and manual ON/auto OFF mode).
- The load (auxiliary output) switches off at the end of the time delay only.

### Manual ON/Automatic OFF mode:

Pressing the auxiliary control allows the load to be switched on or off manually. If the control is not pressed, the sensor will cut off the load at the end of the time delay or when the light level threshold has been reached.

### **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 20/31.

### ■ 7.2 More than one sensor and more than one load

Synchronising the products is done in two stages:

- one long press (>1s) all the sensors (S) change to ON
- one short press all the sensors (S) invert their state from OFF to ON or ON to OFF

⊗L1 OFF ⊗L2 OFF ⊗Ln OFF	S1 OFF  S2 OFF  Sn OFF	PB <1s	L1 ON	S1 ON  S2 ON  Sn ON
L1 ON	S1 ON  S2 ON  Sn ON	PB <1s	⊗L1 OFF ⊗L2 OFF ⊗Ln OFF	S1 OFF  S2 OFF  Sn OFF
L1 ON  L2 OFF  Ln OFF	S1 ON  S2 OFF  Sn OFF	PB <1s	⊗L1 OFF	S1 OFF  S2 ON  Sn ON

### 7. OPERATION (continued)

### ■ 7.2 More than one sensor and more than one load (continued)

L1 ON  L2 OFF  Ln OFF	S1 ON  S2 OFF  Sn OFF	PB >1s + <1s	⊗L1 OFF ⊗L2 OFF ⊗Ln OFF	S1 OFF  S2 OFF  Sn OFF
L1 ON  L2 OFF  Ln OFF	S1 ON  S2 OFF  Sn OFF	PB >1s	L1 ON	S1 ON  S2 ON  S52 ON

### ■ 7.3 Several sensors connected to a single load

⊗L OFF	S1 OFF  S2 OFF  Sn OFF	PB <1s	`⊗́ L ON	S1 ON  S2 ON  Sn ON
` <b>⊗</b> ⊂LON	S1 ON  S2 ON  Sn ON	PB <1s	⊗ L OFF	S1 OFF  S2 OFF  Sn OFF
LON	S1 ON  S2 OFF  Sn OFF	PB <1s	≥⊠ L ON	S1 OFF  S2 ON  Sn ON
LON	S1 ON  S2 OFF  Sn OFF	PB >1s + <1s	⊗L OFF	S1 OFF  S2 OFF  Sn OFF
` <b></b> ≪⊂LON	S1 ON  S2 OFF  Sn OFF	PB >1s	LON	Ssi ON  Ssi ON  Ssi ON

### 8. SETTINGS

### ■ 8.1 Detection parameters

Sensor parameter		Sensor parameter		Default value	Modifiable parameters		uration ols
				0 882 30	0 882 35		
T:	dala	15 mn	3,5,10,15,20 min	_	✓		
Time o	aeiay	15 mn	5 sec - 59 min 59s	✓	-		
Sensit	ivity	PIR (very high)	Low, medium, high, very high	✓	✓		
Auto on/Auto off		Inactive	Activate/ Deactivate	✓	<b>✓</b>		
Modes	Walk-through mode Active		Activate/ Deactivate	✓	✓		
Manual on/Auto		Inactive	Activate/ Deactivate	✓	<b>✓</b>		
Ξ_	Initial	PIR	Non-modifiable	✓	_		
Maintain Restart		PIR	Non-modifiable	✓	_		
		PIR	PIR and/or US, PIR, US, Deactivate	<b>✓</b>	-		
Alarm		Inactive	Activate/ Deactivate	<b>✓</b>	_		

- Time delay: Length of time the load is on after detection occurs
- Sensitivity: Detection range setting

### Modes:

### Auto on/Auto off mode:

The lighting switches on automatically:

- When movement is detected and there is insufficient natural light. The lighting switches off automatically:
- If no movement is detected at the end of the set time delay.
- Or if there is an adequate level of natural light (regulation function activated).

The lighting will switch on again automatically if another movement is detected and there is insufficient light.

### ( Walk-through mode:

- If no movement is detected in the 20 seconds following an initial detection, the device will cut off the load after 3 minutes.
- If another movement 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:

The lighting is switched on manually and switched off automatically:

- If no movement is detected at the end of the set time delay.

After switch-off, if any movement is detected within a 30-second period, the lighting switches on automatically (provided the Restart function has been activated).

For any period of inactivity longer than 30 seconds, the lighting is switched on manually.

### **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 movement is detected.

**Restart:** In manual mode. After switch-off, if any movement is detected within a 30-second period, the lighting switches on automatically. For any period of inactivity longer than 30 seconds, the lighting must be switched on manually.

Possible in Manual on/Auto off mode only.

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

### 8. SETTINGS (continued)

### ■ 8.2 Light parameters

Sensor parameter		sor parameter Default Modifiable value parameters		Configuration tools	
				0 882 30	0 882 35
Light level threshold		evel threshold 300 lux 20,		-	✓
			5 - 1275 lux	<b>√</b>	_
Calibration		_	0 - 99995 lux	✓	-
Advanced mode	Regulation	Active	Activate/ Deactivate	<b>✓</b>	-
Ad _	Light contribution	Auto - 1275 lux		✓	-

- Light level threshold: Value at which the load switches on if the natural light level is less than the setting.
- **Eye function:** Value 0 (eye on configuration tool 0 882 30) is used to save the ambient light level in the room as the light level threshold.

### Advanced mode:

- Calibration: The ambient light level measured with a luxmeter must then be transmitted to the sensor.
- 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 brought in by the load being switched on.

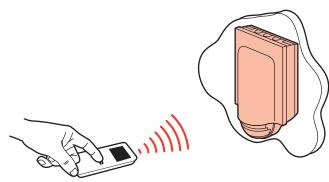
When the light contribution parameter is set to "Auto" (value 0) on configuration tool Cat. No. 0 882 30, the sensor automatically calculates the light contribution.

### 8.3 Modifying the parameters using the configuration tools

### Warning:

Make sure blanking plate is removed before modifying parameters with a configuration tool.





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

When the sensor receives an IR command via the configuration tool it emits a beep to confirm the modification.

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

### - Restore factory settings:

1st press: Short press on LEARN; the LED flashes slowly. 2nd press: Press LEARN for 10 seconds until the LED flashes quickly.

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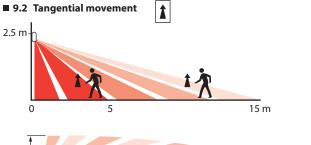
Updated: 03/07/2014

# 9. PERFORMANCE 9.1 Radial movement 2.5 m b c d a 5 m

Height 2	2.5 m						
Sensitivity Low (25%)			itivity n (50%)		tivity (75%)		tivity h (100%)
a (m)	b (m)	a (m)	b (m)	a (m)	b (m)	a (m)	b (m)
2	4	3	6	4	6	5	6

Maximum installation height: 3 m

### 9. PERFORMANCE (continued)



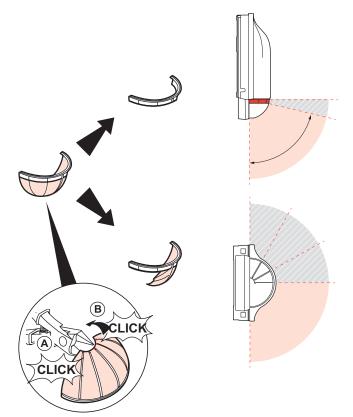


Height 2.5 m

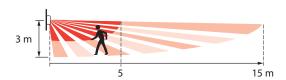
Sensitivity Low (25%)		Sensitivity Medium (50%)		Sensitivity High (75%)		Sensi Very hig	•
a (m)	b (m)	a (m)	b (m)	a (m)	b (m)	a (m)	b (m)
8	4	10	6	12	6	15	6

Maximum installation height: 3 m

### ■ 9.3 Performance with blanking plate







**CONTENTS** 

### 10. CARE

Keep the lens clean.

Clean the surface with a cloth.

Do not use acetone, tar-removing cleaning agents or trichloroethylene. Resistant to the following products: - Hexane (EN 60669-1)

- Methylated spirit
- Soapy water
- Diluted ammonia
- Bleach diluted to 10%
- Window-cleaning products

### Warning:

Always test before using other special cleaning products.

### 11. STANDARDS

Directive: CE

Installation standards: NFC 15-100 Product standard: IEC 60669-2-1

Environmental standards:

- European Directive 2002/96/EC: WEEE (Waste Electrical and Electronic Equipment)
- European Directive 2002/95/EC: RoHS (Restriction of Hazardous Substances)
- Regulations: Public buildings Workplace buildings High-rise buildings

All technical information is available online at



### 12. TROUBLESHOOTING

PROBLEM	CAUSES	SOLUTIONS
Lighting stays on when there is no-one present	Sources of interference such as draughts,	1- Reduce the sensitivity level
	vibration or radiators may cause nuisance tripping	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	Regulation function not active	Activate the regulation function
when there is an adequate level of natural light	Light level threshold set too high	Reduce the light level threshold
	Light source too bright	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	Time delay too short	Increase the time delay
present and the natural light level is not adequate (too dark)	Detection sensitivity too low Light level threshold too low	10 to 1 minutes is advised for work areas (10 minutes is recommended)
		Increase the sensitivity
		Move the sensor closer to the work area
		Increase the threshold

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