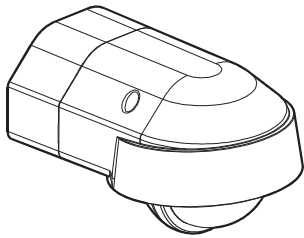


WALL IP55 ON-OFF LIGHTING CONTROL SENSOR



GEWIP-W (White)
GEWIP-G (Graphite)

CONTENTS

1. USE	1
2. TECHNICAL CHARACTERISTICS	1
3. DIMENSIONS	2
4. CONNECTION	2
5. INSTALLATION	4
6. SETTINGS	6
7. COVERAGE PERFORMANCE	8
8. FONCTIONNEMENT	8
9. MAINTENANCE	9
10. STANDARDS	9

1. USE

This device is used to control a light source automatically by detecting movement, using infrared (IR) technology. This IP55 motion sensor has a 140° detection angle, and when positioned 2.5m above the ground an 8m×6m detection area. It is surface-mounted on walls. It is quick and easy to set, using potentiometers or an IR remote control (GE-HS)

Detection type: Infrared (PIR)
Mounting type: Wall
Time Delay: 10sec to 30min
Light Level Setpoint: 5... 2000lux

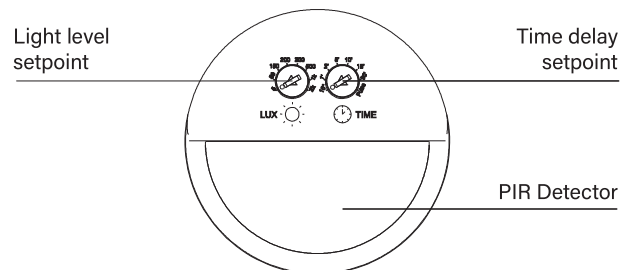
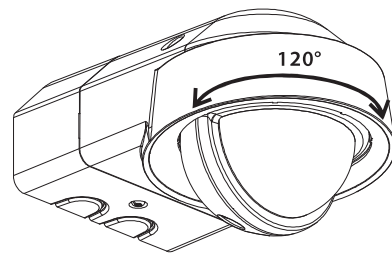
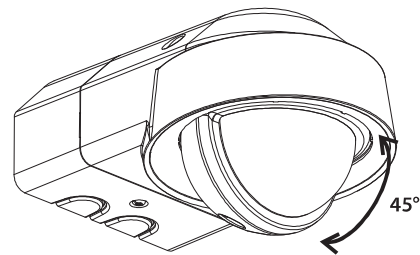
2. TECHNICAL CHARACTERISTICS

2.1 Technical data

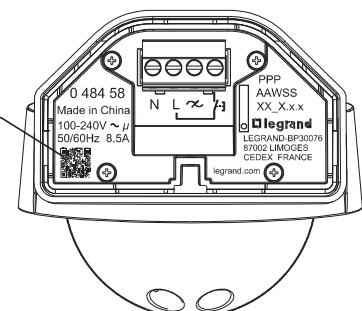
Voltage: 100-240V AC
Frequency: 50 / 60 Hz
No-load power consumption: 0,1W
Output by normally open contact connected to phase
Cabling: 1x2,5mm²
Flush-mounting diameter: 67 mm
Weight: 188,05g
Impact resistance: IK04
Penetration by solid bodies and liquids: IP55
Operating temperature: -5°C to +30°C
Storage temperature: -20°C to +70°C

2.2 Features

- Operates in standalone.
- 1 auxiliary input for overriding lightings using a push button connected to the line.
- 1 sensor (pyroelectric technology) with its lens for sensing movement.
- A daylight sensor measuring the natural and artificial light for driving lightings according to the daylight setpoint.
- 1 relay output dedicated to lightings, switching loads at the zero crossing.
- An Infrared protocol to configure.
 - Time delay
 - Light level setpoint
 - Launch test mode
 - PIR Sensitivity



Scan the QR Code and access the technical documentation



WALL IP55 ON-OFF LIGHTING CONTROL SENSOR

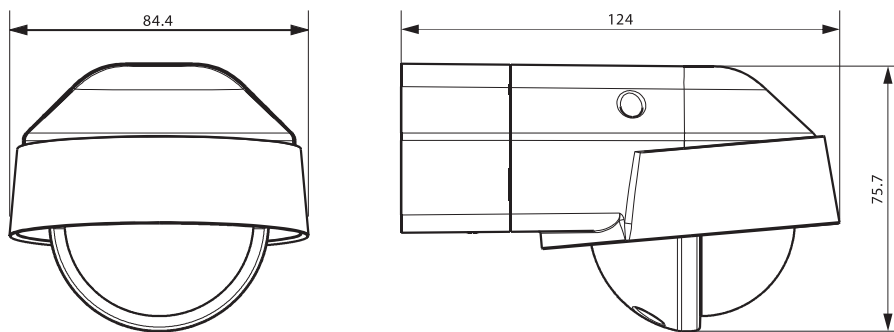
2. TECHNICAL CHARACTERISTICS (Continued)

2.3 Load

	①		②		③		④		⑤		⑥		⑦	
	LED													
240 V~	350 VA	3 A	2000 W	8,5 A	1000 VA	4,3 A	10x(2x36W)	4,3 A	1 MAX ≤ 2 A	500 VA	2,1 A	1000 VA	4,3 A	
100 V~	175 VA		1000 W		500 VA		5x(2x36W)			250 VA		500 VA		

- 1- LED lamp
- 2- Incandescent and Halogen lamps
- 3- Halogen lamp with separate ferromagnetic or electronic transformer
- 4- Fluorescent tubes
- 5- Contactor
- 6- Compact fluorescent lamp with integrated ballast
- 7- Compact fluorescent lamp with transformer ferromagnetic or separate electronic

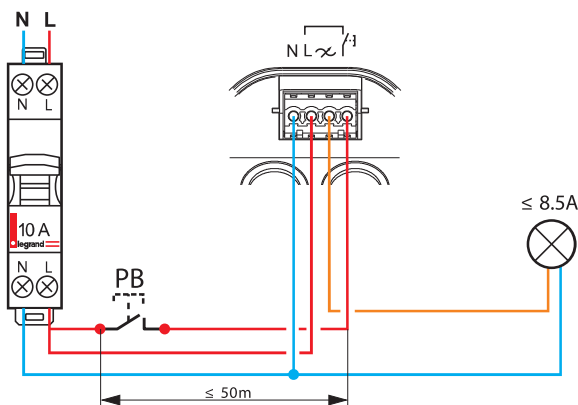
3. DIMENSIONS



4. CONNECTION

Number of terminals: 4
 Terminal type: pluggable terminal
 Terminal capacity: 1×2,5mm²
 Stripping length: 8 mm

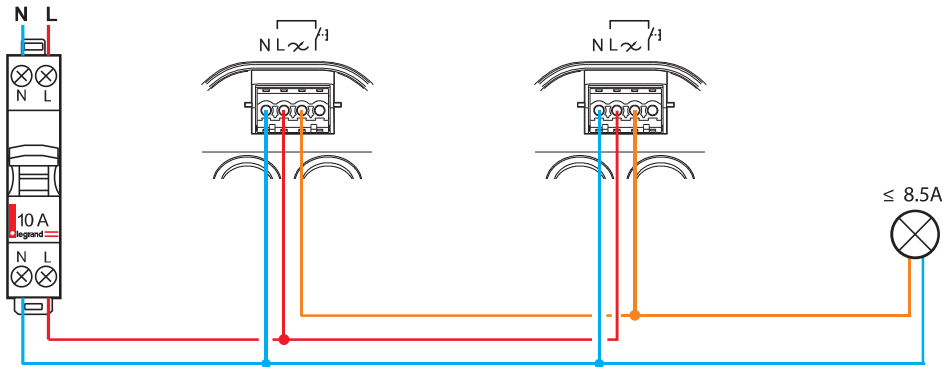
4.1 Wiring with auxiliary control



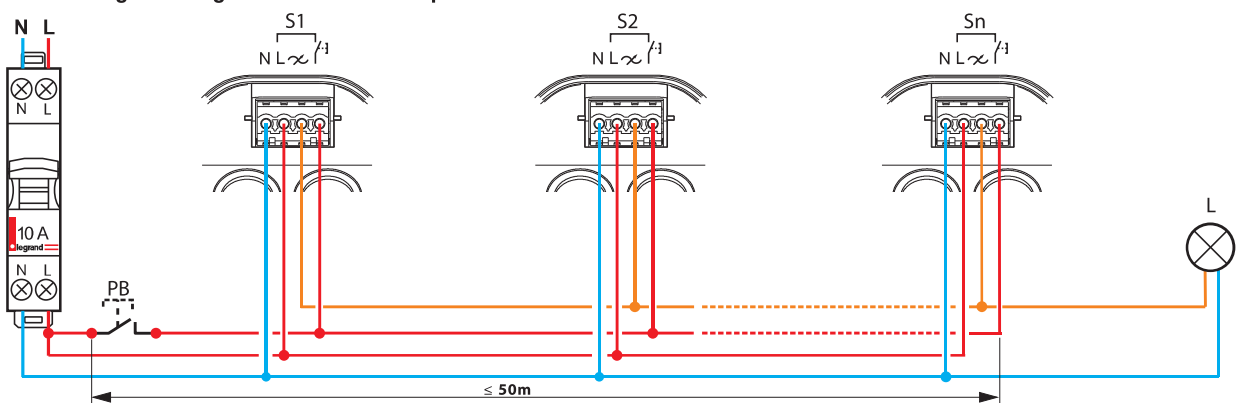
WALL IP55 ON-OFF LIGHTING CONTROL SENSOR

4. CONNECTION (Continued)

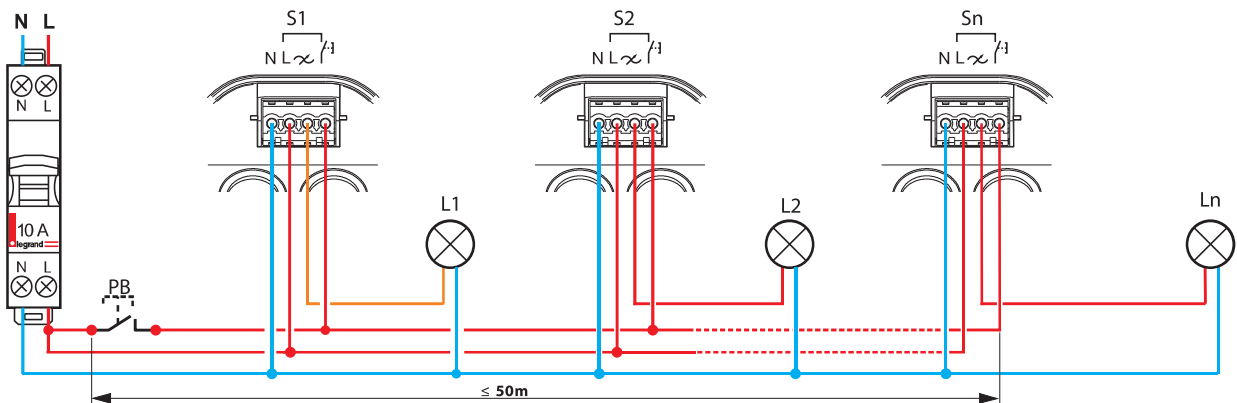
4.2 Wiring without auxiliary control: Auto on/Auto off



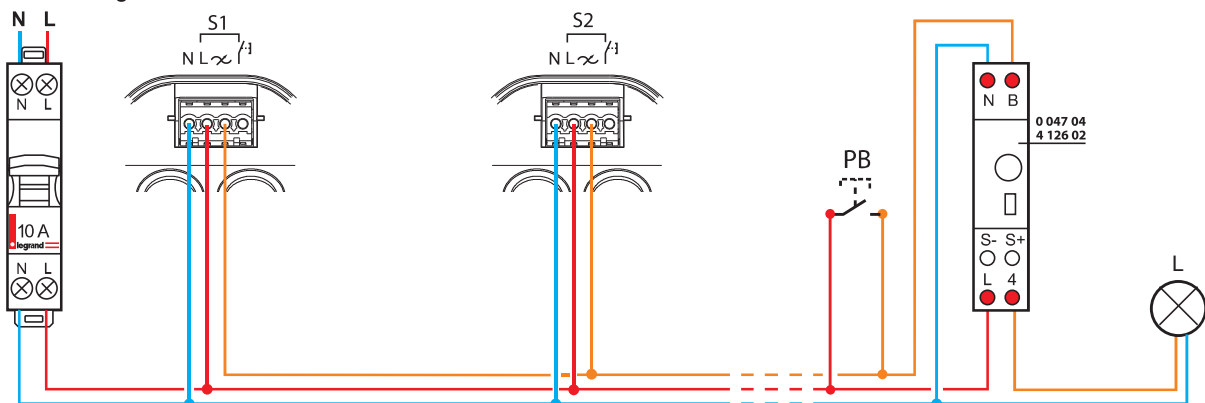
4.3 Wiring for a single load connected in parallel



4.4 Wiring for several loads connected in parallel



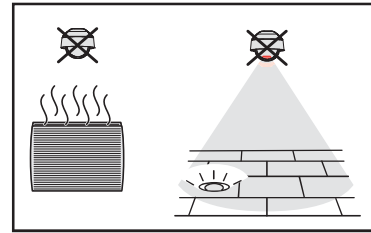
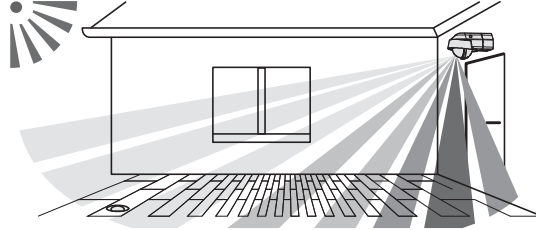
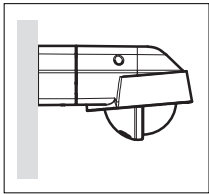
4.5 Wiring with timer



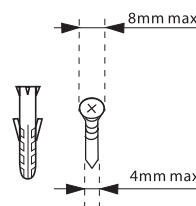
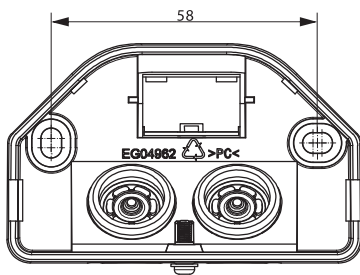
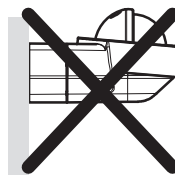
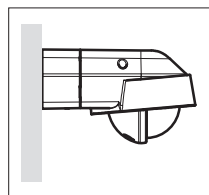
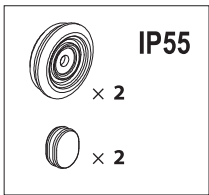
WALL IP55 ON-OFF LIGHTING CONTROL SENSOR

5. INSTALLATION

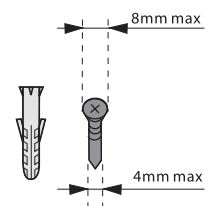
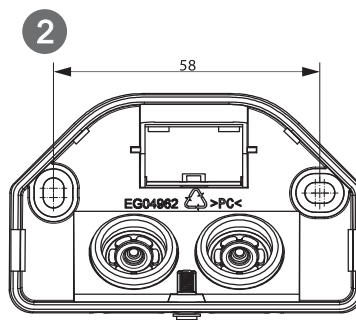
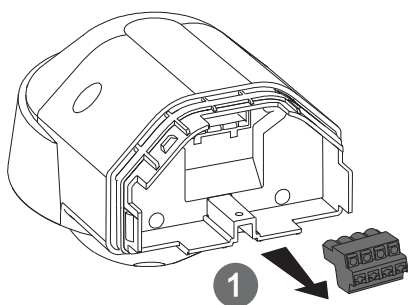
5.1 Positioning the sensor



5.2 Positioning



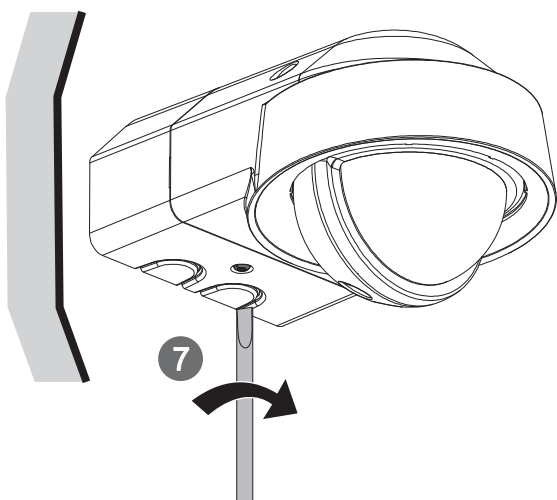
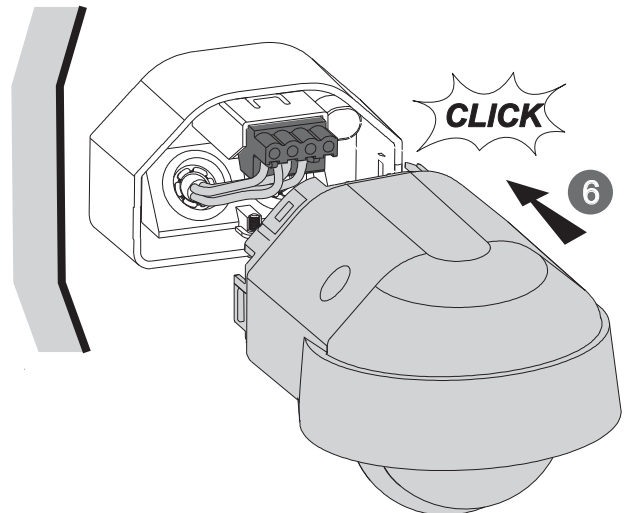
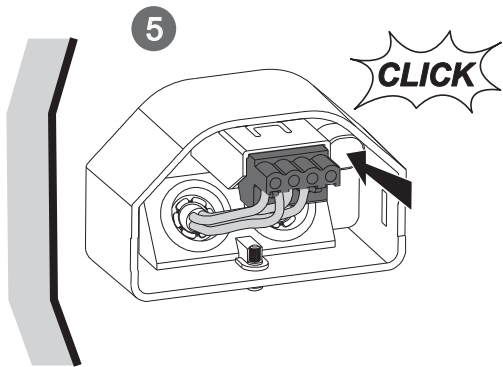
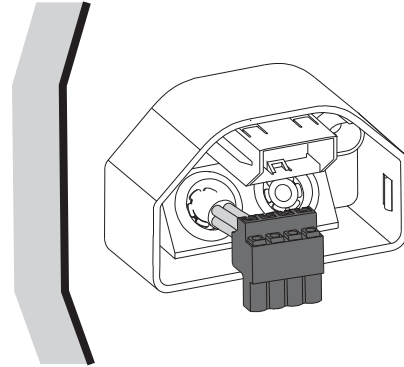
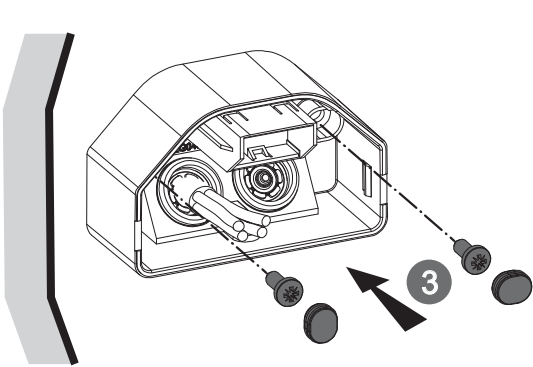
5.3 Installation



WALL IP55 ON-OFF LIGHTING CONTROL SENSOR

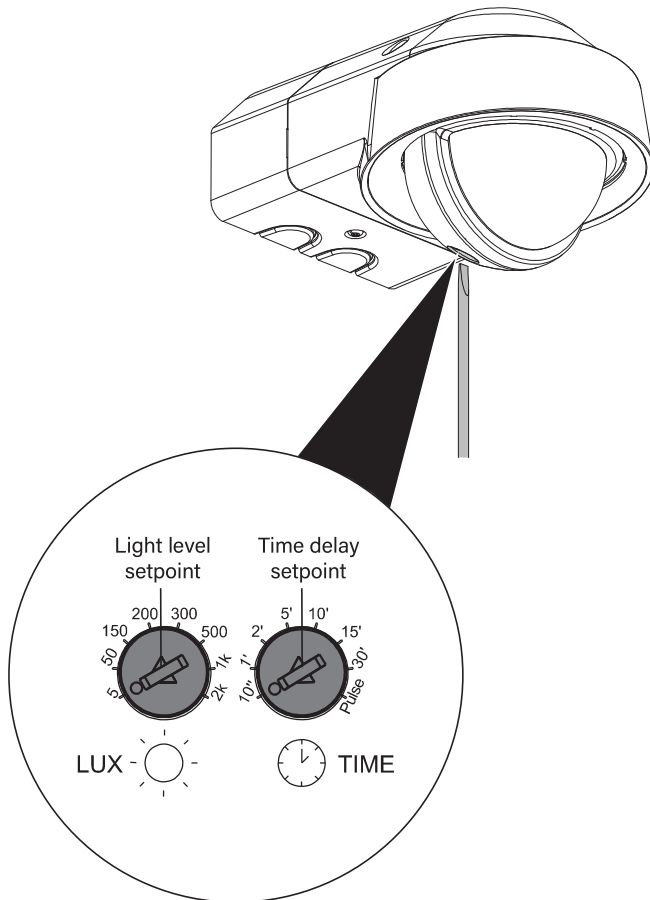
5. INSTALLATION (Continued)

■ 5.3 Installation (continued)



WALL IP55 ON-OFF LIGHTING CONTROL SENSOR

6. SETTINGS





6.1 Setting by Trimmer

The product is set with this trimmer's positions.

Time delay setpoint: Time for which light is switched on following detection.

Light level setpoint: Light level setpoint value below which the light is switched on and above which the light is switched off.

Position	Trimmer daylight 	Trimmer time delay 
1	5 lux (Min)	10 sec
2	50 lux	1 min
3	150 lux	2 min
4	200 lux	5 min
5	300 lux	10 min
6	500 lux	15min
7	1000 lux	30 min
8	2000 lux (Max)	Pulse

Light level Max: Light will always be turn on/off no matter light level.

Pulse: The relay output is driven with short pulse (1s) spaced to 10s for driving a timer lag switch. Combined with a remote time-switch, the detector is ideal for stairwells and corridors.

The time set on the time switch determines how long the load is switched on following a signal detection.

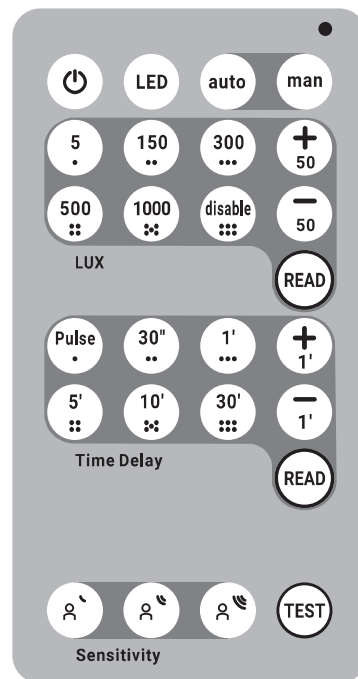
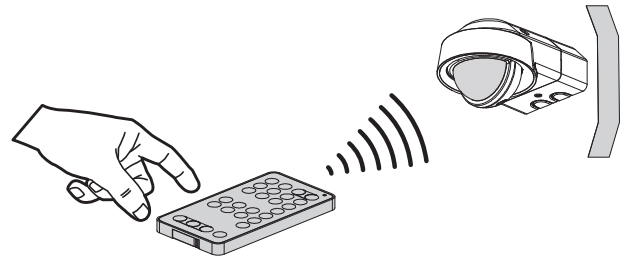
Factory Settings:

Trimmer daylight: position 8 (max)

Trimmer time delay: position 1 (10sec)

6. SETTINGS (Continued)

6.2 Setting by Infrared remote control (Cat. No GE-HS)



Notes 1: Auto on/Auto off mode:

Automatic switch-on:

- On detection of presence if the natural light level is insufficient.

Automatic switch-off:

- If no presence is detected and at the end of the set time delay

- Or if the natural light level is sufficient

Another detection causes automatic switch-on if there is insufficient light.

Notes 2: Manual on/Auto off mode:

Manual switch-on, automatic switch-off:

- When no presence is detected and at the end of the set time delay. After switch-off, any new detection within a 30 second period triggers an automatic switch-on.

After 30 seconds the device is switched on via a manual switch.

Note 3: Test Mode:

This mode bypass parameters for 10 minutes.

Every detection switch ON the motion LED (in purple) for 1sec and drives the lightings for 5 seconds.

After these 5 seconds, if no motion is sensed, the lightings turn OFF, else the 5 seconds delay is refreshed (test mode restarts).

The 10 minutes test timer is reset only if remote control test button is pushed again.

WALL IP55 ON-OFF LIGHTING CONTROL SENSOR

6. SETTINGS (Continued)

6.2 Setting by Infrared remote control (continued)

TYPE	KEY	NAME	DESCRIPTION	Comment
Parameter		Load ON/OFF	Turn ON/OFF the connected loads	After the setting is successful, the purple LED on the product blinks quickly three times.
		Motion LED ON/OFF	Enables or Disables the motion detection LED (green)	
		Auto ON Auto OFF	The load will be switched on and off automatically	
		Manuel ON Auto OFF	Only pressing the auxiliary control allows the load to be switched on or off manually	
Light level Setpoint		5 LUX	Set light level to 5 LUX	Exemple : the sensor's LED blinks yellow 3 times = light level is set to 300 LUX or the closest value (250 or 350 LUX).
		150 LUX	Set light level to 150 LUX	
		300 LUX	Set light level to 300 LUX	
		500 LUX	Set light level to 500 LUX	
		1000 LUX	Set light level to 1000 LUX	
		Disable light level Regulation	Light will always be turn on/off no matter light level	
		Read light level	Upon activation the sensor yellow LED will blink «x» times to indicate the set values for LUX	
		Increase 50 lux	Increase by 50 LUX the set LUX level	
		Decrease 50 lux	Decrease by 50 LUX the set LUX level	
	Time delay		Pulse	
		30 seconds	Set time delay to 30s	
		1 minute	Set time delay to 1min	
		5 minute	Set time delay to 5min	
		10 minute	Set time delay to 10min	
		30 minute	Set time delay to 30min	
		Read time delay	Upon activation the sensor blue LED will blink «x» times to indicate the set values for time delay	
		Increase 1 minute	Increase by 1min the set the time delay	
		Decrease 1 minute	Decrease by 1min the set the time delay	
Sensitivity			PIR sensitivity	1.Low 2.Medium 3.High
Test Mode		Test Mode	Test mode is activated during 10min and the time delay is 5s.	Temporary sets values to : LUX disabled Delay 5s After test period, values return to their original settings and the test can be interrupted by pushing the button once more.

WALL IP55 ON-OFF LIGHTING CONTROL SENSOR

6. SETTINGS (Continued)

6.3 Pilot lamp feedback

Motion LED feedback:

STATE	DESCRIPTION
● For 45s	Warmup state (state after power ON)
● For 1s	Motion sensed
● For 1s	Motion sensed during test mode

Read mechanism feedback

STATE	DESCRIPTION
● Blink	Blinks X times to indicate the set values for TIME DELAY triggered by READ function.
● Blink	Blinks X times to indicate the set values for LUX triggered by READ function.

IR frame ACK feedback:

STATE	DESCRIPTION
● 3 blinks	Blinks quickly 3 times anytime a message is received from remote
● 3 blinks	Blinks quickly 3 times when the message coming from the remote cannot be taken into account

6.4 WARM UP

When powered on the motion sensor is in warmup state for 45s:

Load is ON

Green Motion LED is ON

AUX functions is active

Infrared remote control/trimmer settings are active

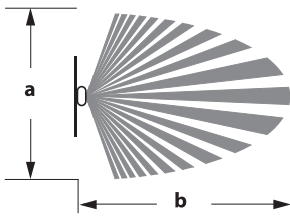
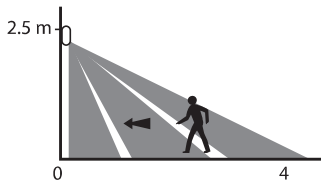
PIR Sensor is inactive

LUX level sensing is inactive

7. COVERAGE PERFORMANCE

7.1 Radial movement

Factory setting: "Medium Sensitivity" for a height of 2.5m and a temperature of 20°C.

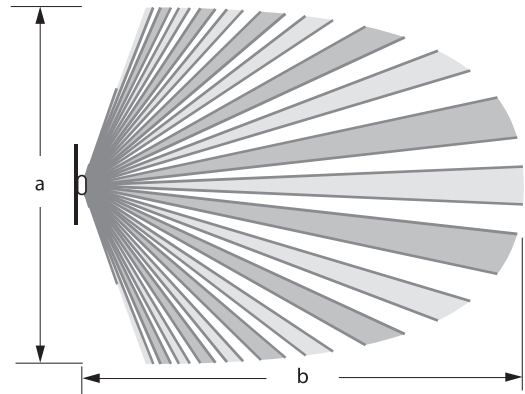
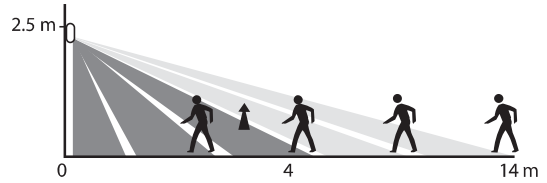


Height (m)	Sensitivity Low		Sensitivity Medium		Sensitivity High	
	a (m)	b (m)	a (m)	b (m)	a (m)	b (m)
2.5	2	3	3	4	4	8.5
3.5	3	2.5	5	3	7	4
4	4	3	4	4	5	4.5

7. COVERAGE PERFORMANCE (Continued)

7.2 Tangential movement

Factory setting: "Medium Sensitivity" for a height of 2.5m and a temperature of 20°C.



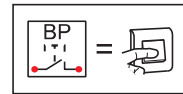
Height (m)	Sensitivity Low		Sensitivity Medium		Sensitivity High	
	a (m)	b (m)	a (m)	b (m)	a (m)	b (m)
2.5	6	13	10	14	11	14.5
3.5	6	14.5	7	14.5	8	14.5
4	7	9	10	14.5	16	14.5

Remark:

For an optimal trigger, the movement must be done perpendicular to the detector. In case direct and frontal approach, the detection of a movement will be harder, and scope will be therefore much lower.

8. FONCTIONNEMENT

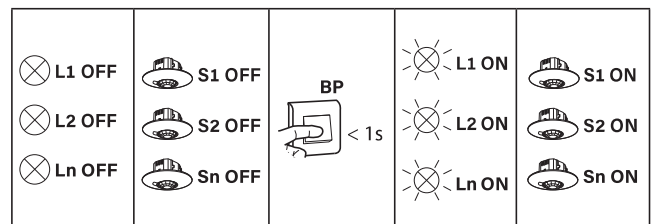
8.1 More than one sensor and more than one load



inversion of the state of the loads: < 1s

synchronisation of all loads to ON: > 1s

synchronisation of all loads to OFF: > 1s + < 1s



WALL IP55 ON-OFF LIGHTING CONTROL SENSOR

8. FONCTIONNEMENT (Continued)

■ 8.1 More than one sensor and more than one load (continued)

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

■ 8.2 Several sensors connected to a single load

L OFF	S1 OFF S2 OFF Sn OFF	< 1s	L ON	S1 ON S2 ON Sn ON
L ON	S1 ON S2 ON Sn ON		< 1s	L OFF
L ON	S1 ON S2 OFF Sn OFF	< 1s		L ON
L ON	S1 ON S2 OFF Sn OFF		> 1s + < 1s	L OFF

8. FONCTIONNEMENT (Continued)

■ 8.2 Several sensors connected to a single load (continued)

L ON	S1 ON S2 OFF Sn OFF	> 1s	L ON	S1 ON S2 ON Sn ON
------	---------------------------	------	------	-------------------------

9. MAINTENANCE

Ensure the lens remains clean.
Surface cleaning using a cloth.
Do not use: acetone, tar remover, trichloroethylene.
Resistant to the following products:

- Hexane (EN 60669-1),
- Methylated spirit,
- Soapy water,
- Diluted ammonia
- Bleach diluted to 10%,
- Window cleaning products.

WARNING: Conduct preliminary tests before using any other specific cleaning products.

10. STANDARDS

LVD: Low Voltage Directive
Directive: 2014/35/EU
Standard: IEC 60669-2-1

EMC: Electromagnetic Compatibility
Directive: 2014/30/EU
Product standards: IEC 60669-2-1
IEC 61000-3-2

ROHS: Restriction of Hazardous substances,
Directive: 2011/65/EU of 08 June 2011 amended by 2015/862 of
31 March 2015 (ROHS 2)
Standard: EN IEC63000