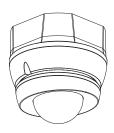


GREEN-I

Catalogue Number(s): 0 484 60/61

GI-IMW/GI-IMG IP55 ON-OFF LIGHTING CONTROL SENSOR



0 484 60 (White) 0 484 61 (Graphite)

1. Use 1
2. Technical characteristics
3. DIMENSIONS
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5. Installation
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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 360° detection angle, and when positioned 2.5m above the ground an 12m detection area. It is surface-mounted on ceiling. It is quick and easy to set, using potentiometers or an IR remote control (0 484 75)

Detection type: Infrared (PIR) Mounting type: Ceiling 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

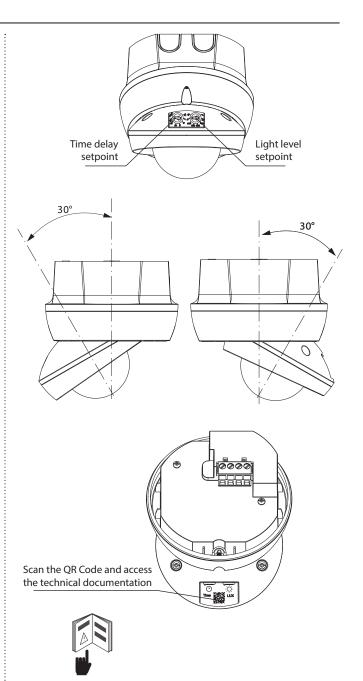
Cabling: 2x1,5mm² or 1x2,5mm² Flush-mounting diameter: 60 mm

Weight: 203.5g Impact resistance: IK04

Penetration by solid bodies and liquids: IP55 Operating temperature: -5°C to +30°C Storage temperature: -20°C to +70°C

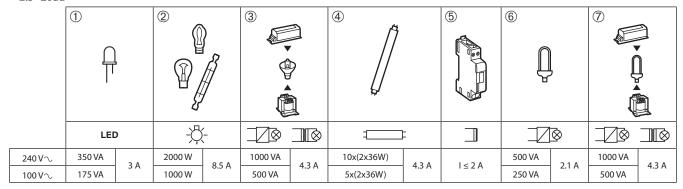
■ 2.2 Features

- Operates in standalone.
- 1 auxiliary input for overriding lightings using a push button connected to the line.
- 2 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



2. TECHNICAL CHARACTERISTICS (Continued)

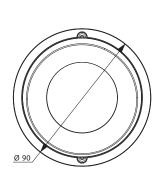
■ 2.3 Load

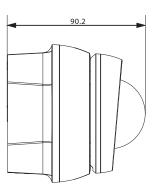


- 1- LED lamp
- 2- Incandescent and Halogen lamps
- 3- Halogen lamp with separate ferromagnetic or electronic transformer
- 4- Fluorescent tubes
- 5- Contactor
- 6- Compact fluorescent lamp with integrated ballast
- 7- Compact fluorescent lamp with transformer ferromagnetic or separate electronic

3. DIMENSIONS

■ 3.1 without surface mount accessory

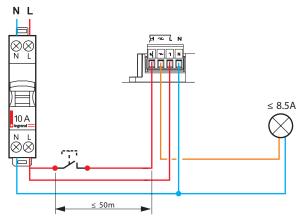


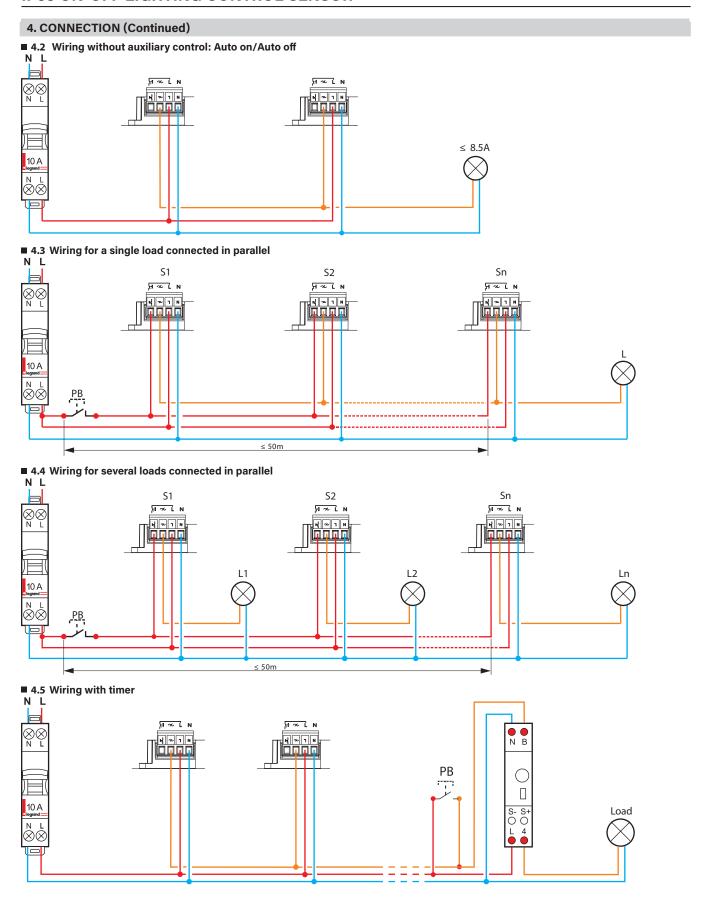


4. CONNECTION

Number of terminals: 4 Terminal type: pluggable terminal Terminal capacity: $2 \times 1.5 \text{mm}^2$ or $1 \times 2.5 \text{mm}^2$ Stripping length: 7 mm

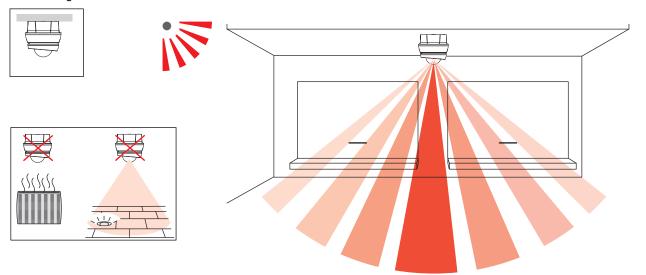
■ 4.1 Wiring with auxiliary control



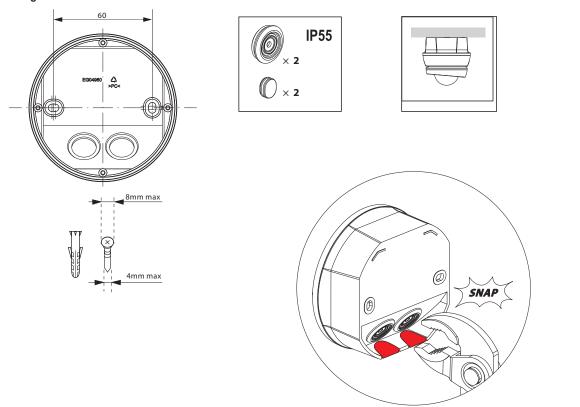


5. INSTALLATION

■ 5.1 Positioning the sensor

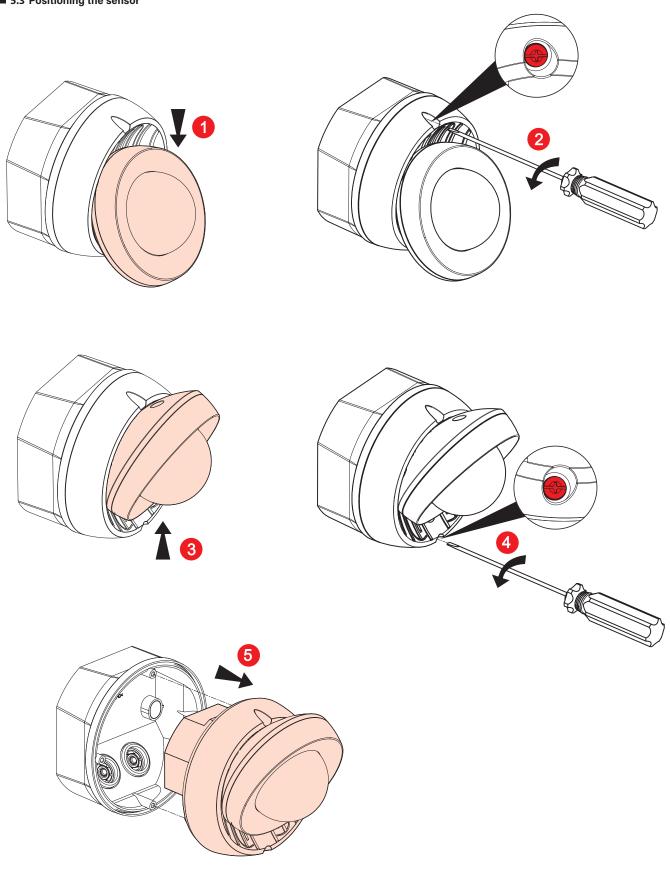


■ 5.2 Positioning the sensor

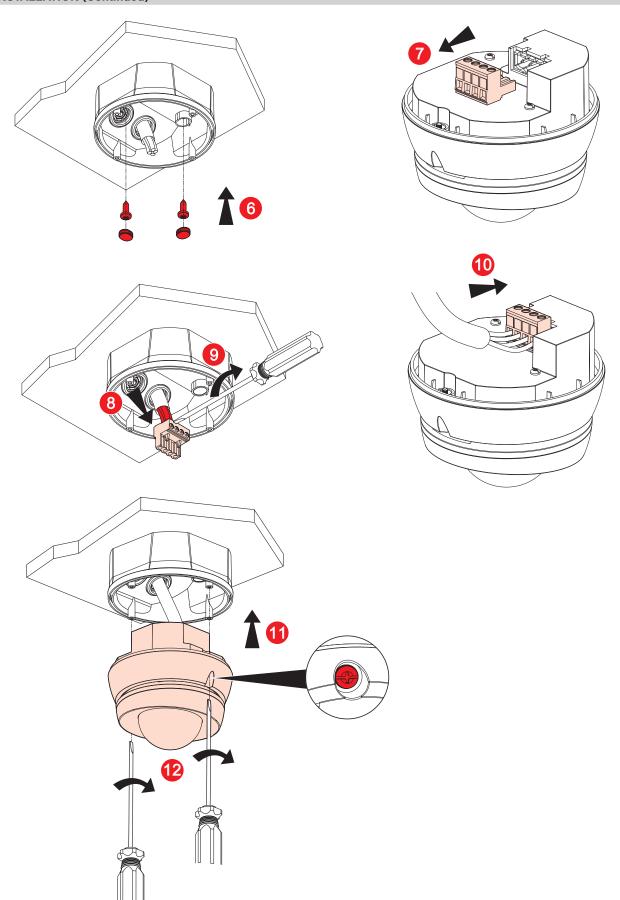


5. INSTALLATION (Continued)

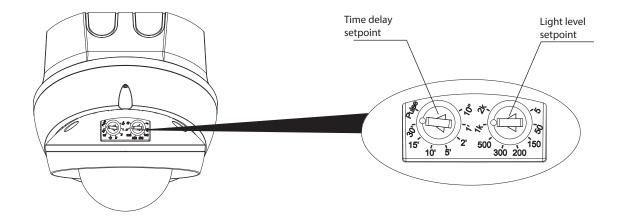
■ 5.3 Positioning the sensor



5. INSTALLATION (Continued)



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	

<u>Light level Max</u>: Light will always be turn on/off no matter light level. <u>Pulse</u>: 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.

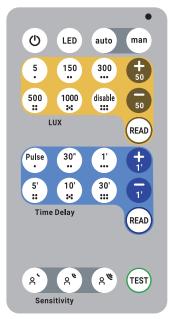
Factory Settings:

Trimmer daylight: position 8 (max)
Trimmer time delay: position 1 (10sec)

■ 6.2 Setting by Infrared remote control (Cat. N° 0 484 75)



■ 6.2 Setting by Infrared remote control (continued)



Notes:

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.

6. SETTINGS (Continued)

■ 6.2 Setting by Infrared remote control (continued)

TYPE	KEY	NAME	DESCRIPTION	Comment
	0	Load ON/OFF	Turn ON/OFF the connected loads	
Parameter	LED	Motion LED ON/OFF	Enables or Disables the motion detection LED (green)	After the setting is successful, the purple LED on the
rarameter	auto	Auto ON Auto OFF	The load will be switched on and off automatically	product blinks quickly three times.
	man	Manuel ON Auto OFF	Only pressing the auxiliary control allows the load to be switched on or off manually	
	5.	5 LUX	Set light level to 5 LUX	
	150	150 LUX	Set light level to 150 LUX	
	300	300 LUX	Set light level to 300 LUX	
	500	500 LUX	Set light level to 500 LUX	
Light level Setpoint	1000	1000 LUX	Set light level to 1000 LUX	
	disable	Disable light level Regulation	Light will always be turn on/off no matter light level	
	READ	Read light level	Upon activation the sensor yellow LED will blink «x» times to indicate the set values for 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).
	+ 50	Increase 50 lux	Increase by 50 LUX the set LUX level	
	50	Decrease 50 lux	Decrease by 50 LUX the set LUX level	
	Pulse	Pulse	Activate the pulse function on the sensor	
	30"	30 seconds	Set time delay to 30s	
	1	1 minute	Set time delay to 1min	
	5'	5 minute	Set time delay to 5min	
Time delay	10'	10 minute	Set time delay to 10min	
	30'	30 minute	Set time delay to 30min	
	READ	Read time delay	Upon activation the sensor blue LED will blink «x» times to indicate the set values for time delay	Exemple: the sensor's LED blinks blue 4 times = time delay is set to 5minutes or closest value (4 min or 6 min).
	+	Increase 1 minute	Increase by 1min the set the time delay	
	1	Decrease 1 minute	Decrease by 1min the set the time delay	
Senstivity	8, 8, 8,	PIR sensitivity	1.Low 2.Medium 3.High	Factory settings: high
Test Mode	TEST	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.

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.	
O 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 $\ensuremath{\mathsf{ON}}$

Green Motion LED is ON

AUX functions is active

Infrared remote control/trimmer settings are active

PIR Sensor is inactive

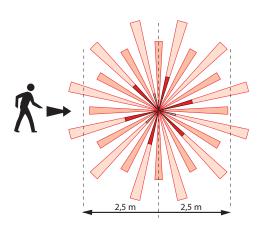
LUX level sensing is inactive

7. COVERAGE PERFORMANCE

■ 7.1 Radial movement

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



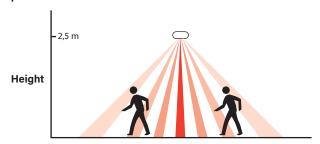


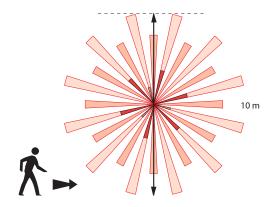
7. COVERAGE PERFORMANCE (Continued)

Height	Sensitivity Low	Sensitivity Medium	Sensitivity High
(m)	Øm	Øm	Øm
2.5	3	4	5
3.5	3.5	5	6
4	4	5	8

■ 7.2 Tangential movement

Factory setting: "High Sensitivity" for a height of 2.5m and a temperature of 20 $^{\circ}\text{C}.$





Height	Sensitivity Low	Sensitivity Medium	Sensitivity High
(m)	Øm	Øm	Øm
2.5	4	6	10
3.5	7	8	12
4	4	8	14

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



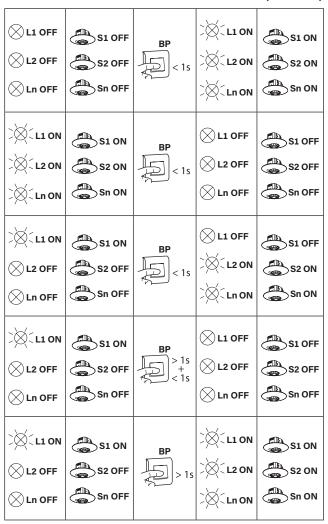
inversion of the state of the loads: < 1

synchronisation of all loads to ON: > 1

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

8. FONCTIONNEMENT (Continued)

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

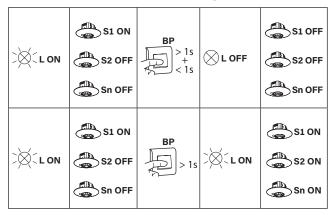


■8.2 Several sensors connected to a single load

	S1 OFF	BP < 1s	` ⊗ (LON	S1 ON
⊗ L OFF	S2 OFF			S2 ON
	Sn OFF			Sn ON
	S1 ON	BP < 1s	⊗L OFF	S1 OFF
≥⊠ (LON	S2 ON			S2 OFF
	Sn ON			Sn OFF
	S1 ON	BP < 1s	≿ (LON	S1 OFF
≥ CLON	S2 OFF			S2 ON
	Sn OFF			Sn ON

8. FONCTIONNEMENT (Continued)

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



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