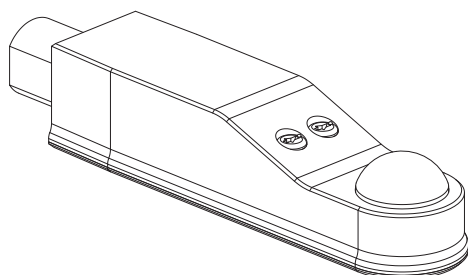


GI-BOW BATTEN MOUNT ON-OFF LIGHTING CONTROL SENSOR



0 484 70

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1. USE

This device is used to control a light source automatically by detecting movement, using infrared (IR) technology. 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.

It is quick and easy to set, using potentiometers or an IR remote control (0 484 75)

Time Delay: 10 sec 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: 4x1mm² x1m

Flush-mounting diameter: 20 mm

Weight: 120g

Impact resistance: IK04

Penetration by solid bodies and liquids: IP65 (applicable to IP65 luminaire only)





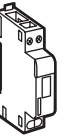








Operating temperature: -5°C to +30°C

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.

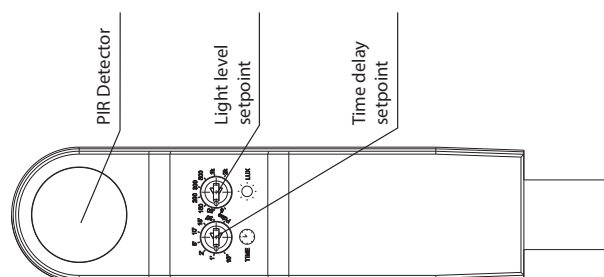
2.3 Load

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	I ≤ 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	

2. TECHNICAL CHARACTERISTICS (Continued)

2.2 Features (continued)

- 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
 - Daylight setpoint
 - Launch test mode
 - PIR Sensitivity



Scan the QR Code and access the technical documentation

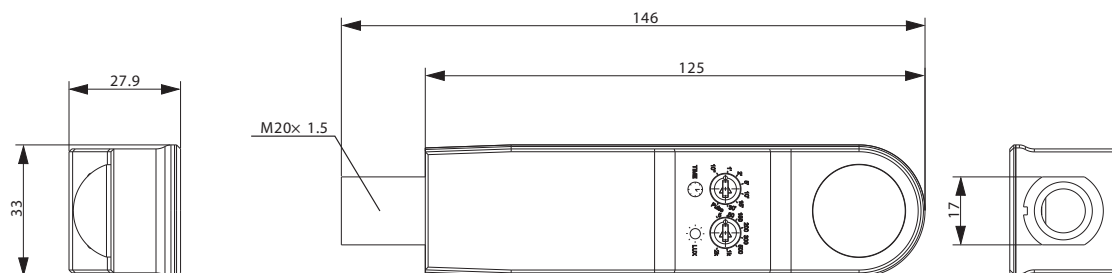
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2. TECHNICAL CHARACTERISTICS (Continued)

■ 2.3 Loads (continued)

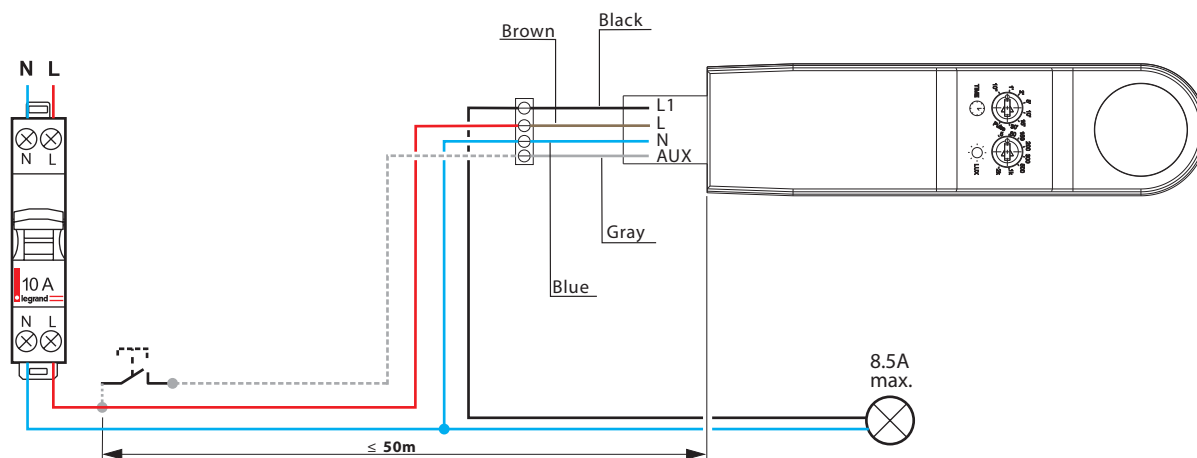
- 1- LED lamp
- 2- Incandescent and Halogen lamps
- 3- Halogen lamp with separate ferromagnetic or electronic transformer
- 4- Fluorescent tubes
- 5- Contactor
- 6- Compact fluorescent lamp with integrated ballast
- 7- Compact fluorescent lamp with transformer ferromagnetic or separate electronic

3. DIMENSIONS



4. CONNECTION

Number of terminals: 4 Black, Blue, Brown, Gray
 Terminal type: pluggable terminal
 Terminal capacity: 4 x 1 mm²
 Stripping length: 7 mm



5. 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.

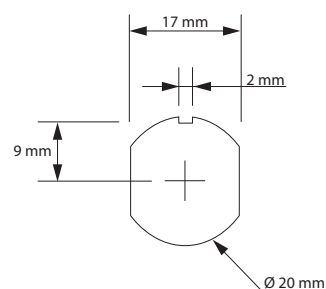
Do not site within 1 m of forced air heating or ventilation.

Do not fix to a vibrating surface.

5. INSTALLATION (Continued)

■ 5.1 Mounting

Mounting hole with key:

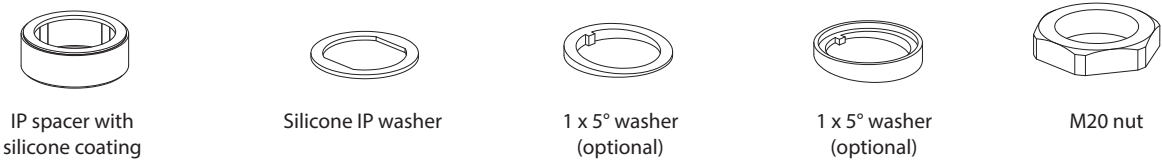


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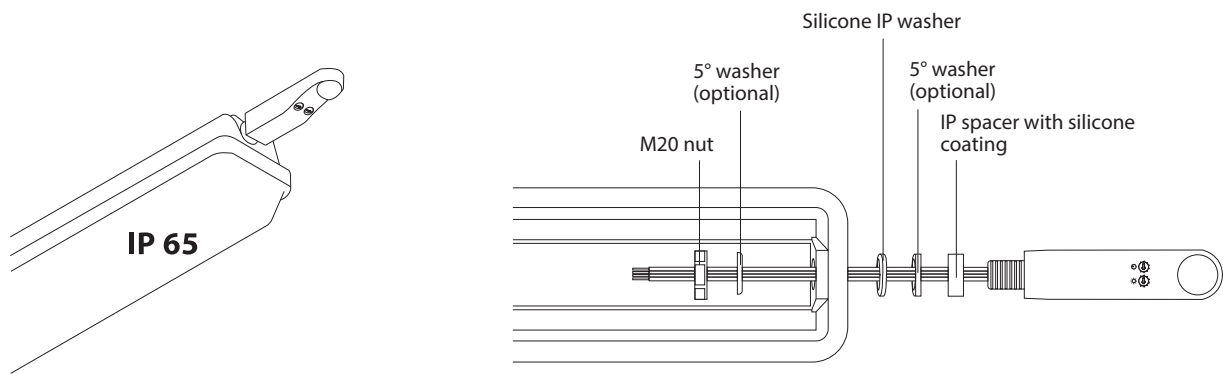
5. INSTALLATION (Continued)

■ 5.1 Mounting (continued)

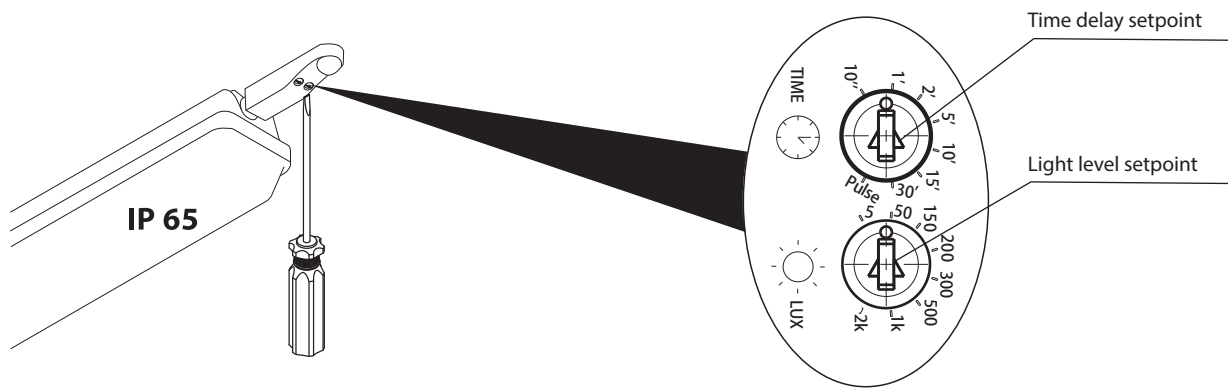
Accessories supplied:



■ 5.2 Mounting on IP65 luminaire



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

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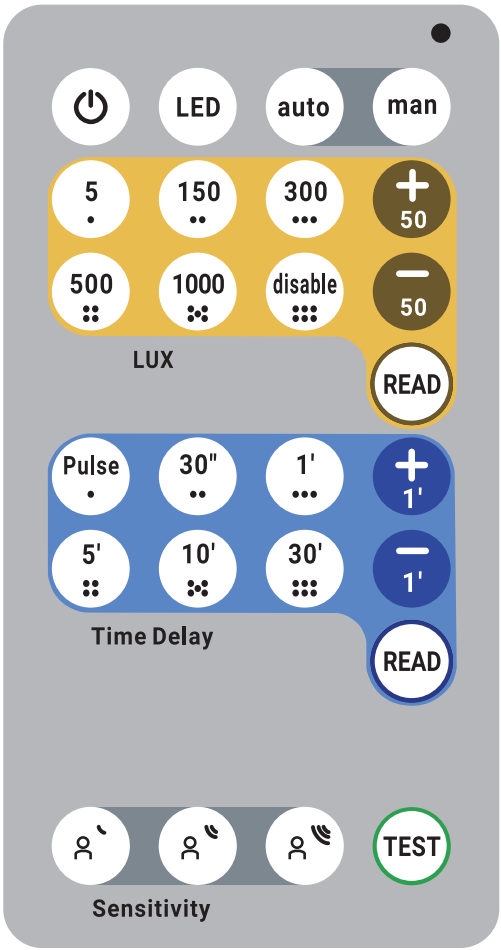
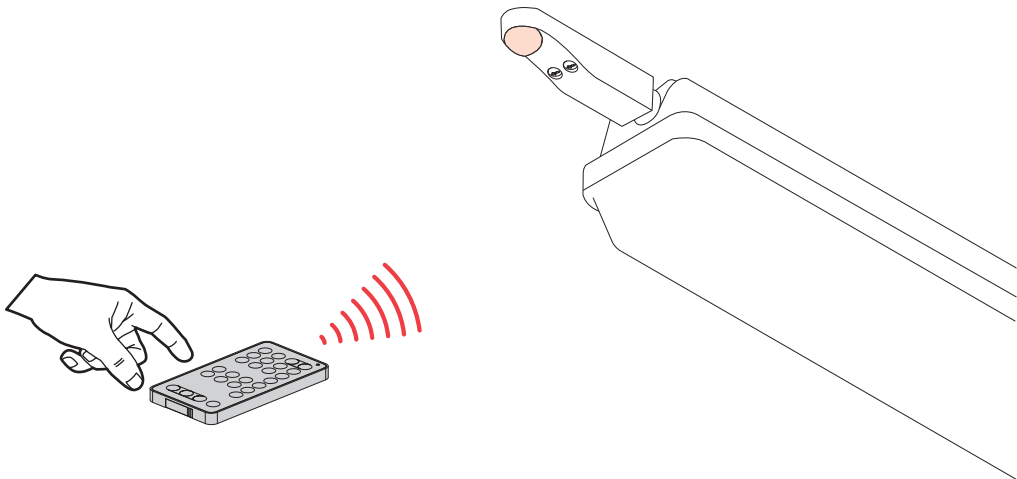
6. SETTINGS (Continued)

■ 6.1 Setting by Trimmer (continued)

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)

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



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.

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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	
		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	Exemple : the sensor's LED blinks yellow 3 times = light level is set to 300 LUX or the closest value (250 or 350 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	Activate the pulse function on the sensor	
		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	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	
		Decrease 1 minute	Decrease by 1min the set the time delay	
Sensitivity		PIR sensitivity	1.Low 2.Medium 3.High	Factory settings: medium
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.

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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

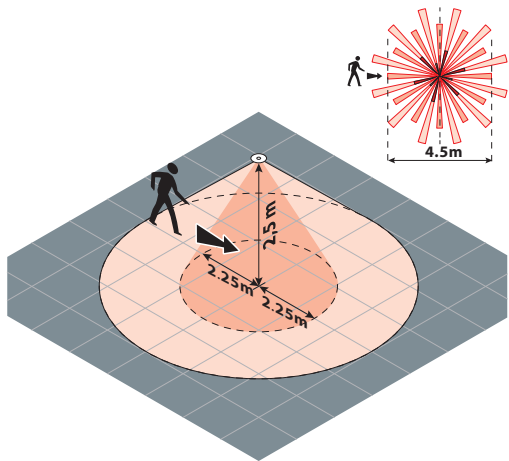
PIR Sensor is inactive

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.

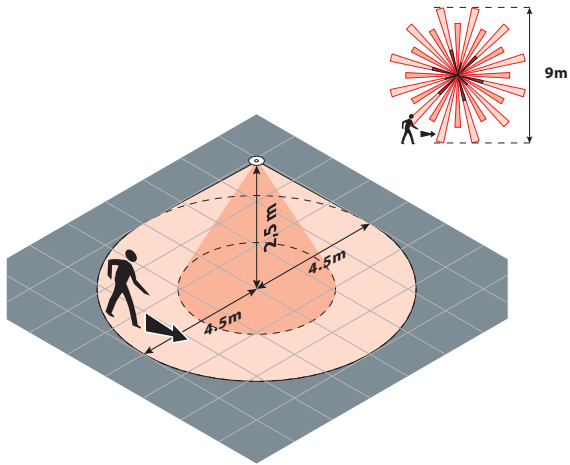


Height (m)	Sensitivity Low	Sensitivity Medium	Sensitivity High
	Ø (m)	Ø (m)	Ø (m)
2.5	4	4,5	5
3.5	4.5	6	7
4	5	6	7.5

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
	Ø (m)	Ø (m)	Ø (m)
2.5	7	9	10
3.5	7	10	12
4	7	10	12.5

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. 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.

9. 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