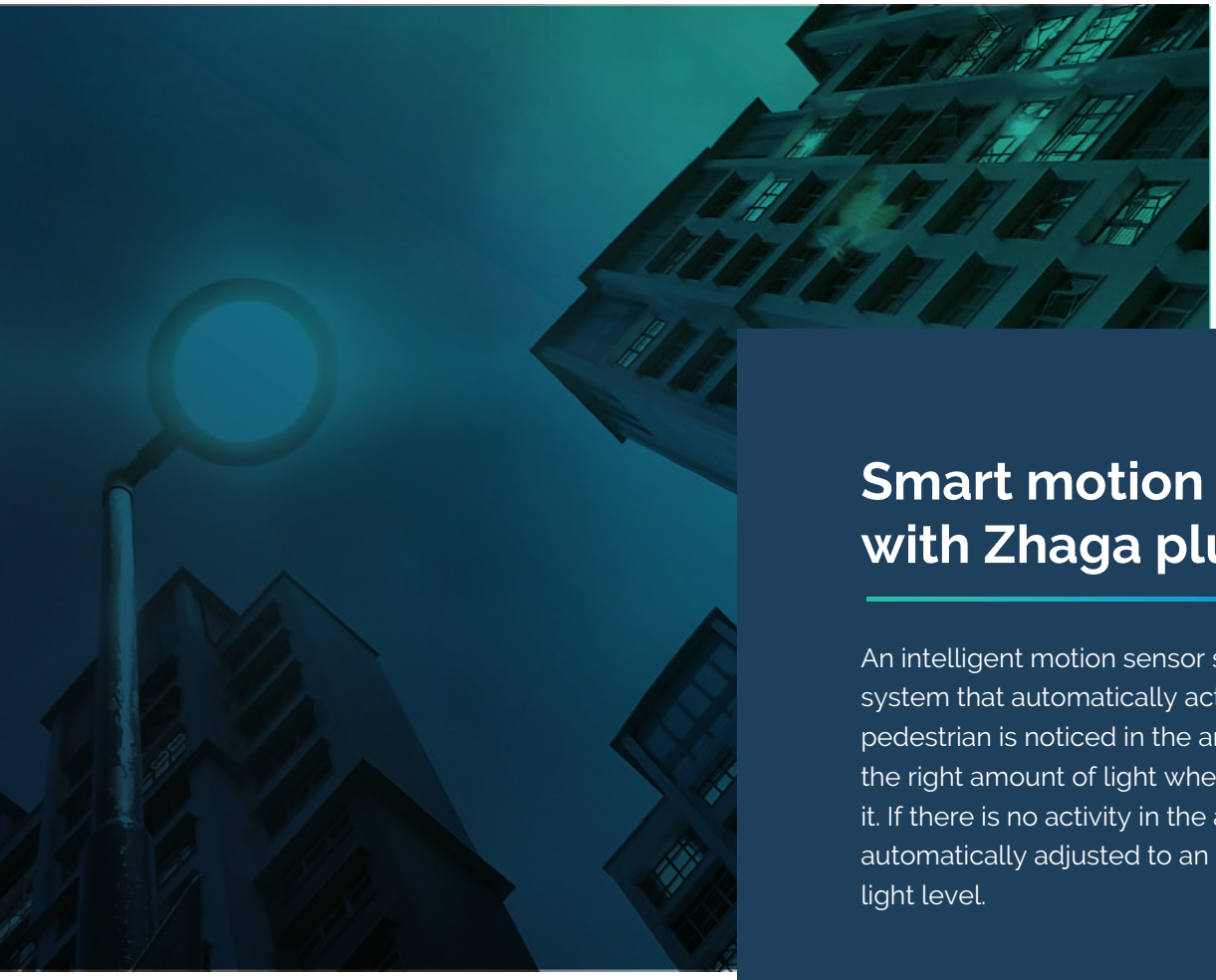
MOTION SENSOR ZHAGA



Smart motion detector with Zhaga plug

An intelligent motion sensor street lighting control system that automatically activates when a pedestrian is noticed in the area. Allows you to have the right amount of light where and when you need it. If there is no activity in the area, the light is automatically adjusted to an optimized minimum light level.

Main applications

Indoor Lighting
Industrial Buildings, circulation spaces

Outdoor Lighting
Street lighting, pedestrian zones, public squares

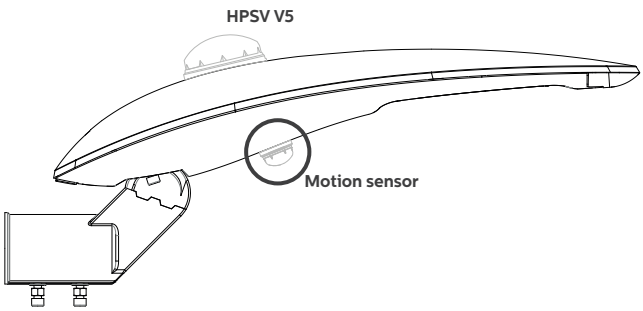
Benefits

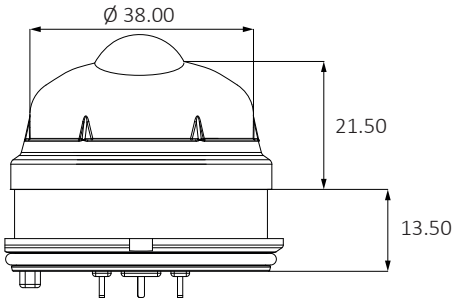
Energy savings
light is provided only where and when it is needed

Even longer lifetime of LED lights

Less light pollution and darker sky

by Globaltronic
spreading technology





• Units: mm

Characteristics

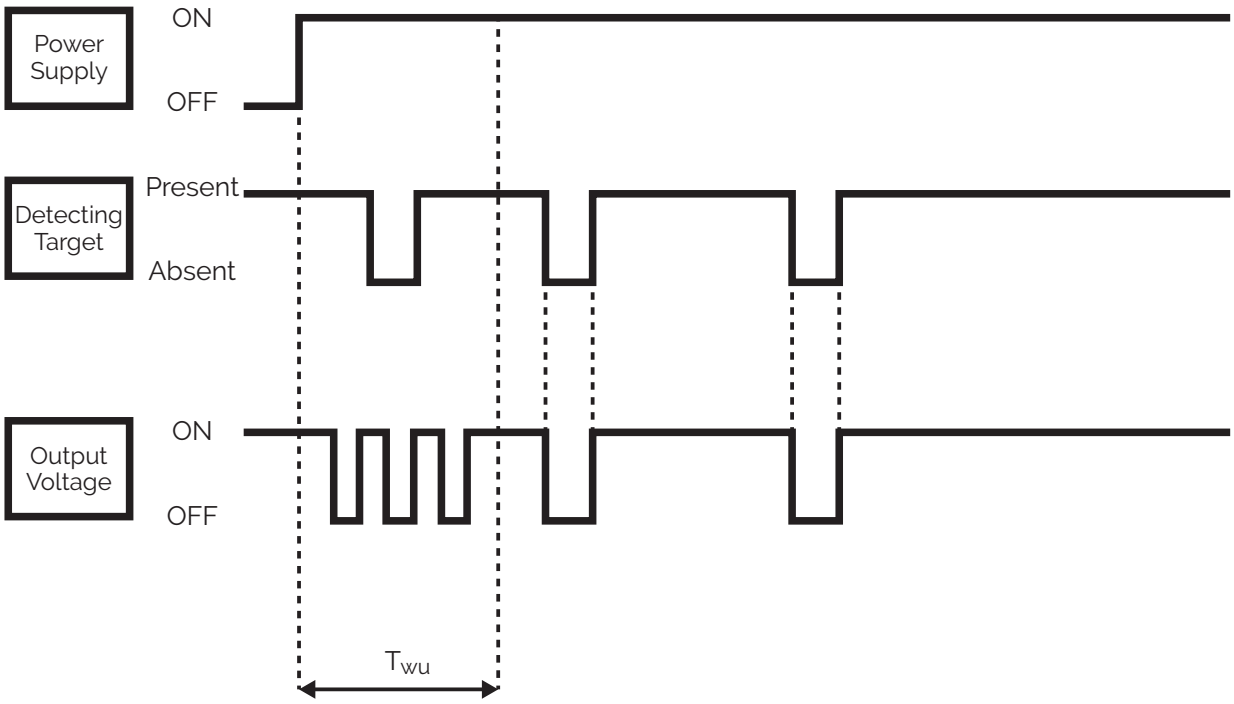
Detection Performance	Values	Operating conditions
Detection distance	Max 12m	Ambient temperature = 25 °C 1. Detectable difference in temperature between the target and background is more than 4˚C. 2. Movement speed: 1.0m/s 3. Detection object: human body (Size: 700mm x 250mm)

Note: Depending on the temperature difference between the target and the surroundings, detection range will change.

Maximum Rated Values	Values	Operating conditions
Usable Ambient Temperature	-20 to +60 °C	Do not use in a freezing or condensation environment.

Electrical Characteristics	Values	Operating conditions
Operating Voltage	20 to 36 VDC	
Standby Current Consumption	350 mA (max)	
Output Current (Iout)	100 µA	
Output Voltage (Vout)	3.3V – 0.5 VCD	
Circuit Stability Time (when voltage is applied) (Twu)	30s (max)	

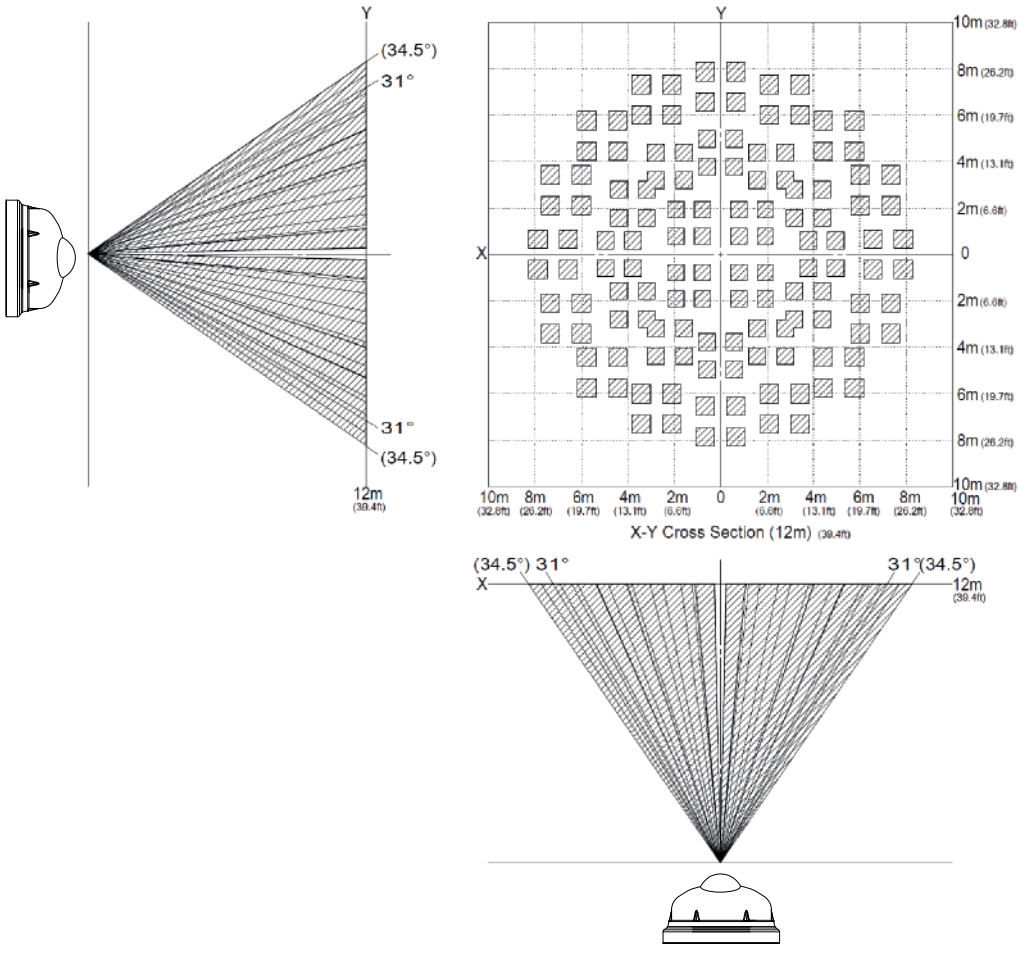
Timing Chart



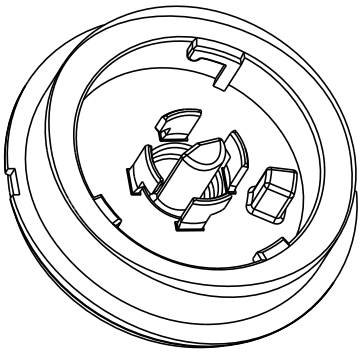
Twu: Circuit Stability Time (About 30s max.)

During this stage, the output's status is undefined (ON/OFF) and detection is therefore not guaranteed.

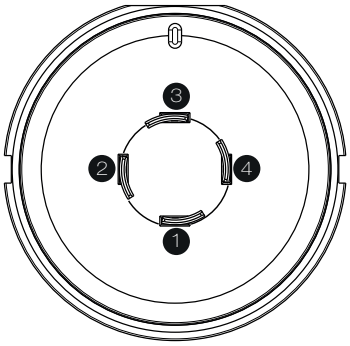
Detection Area



Technical Drawing



Exterior



1. 24V DC Input
2. GND
3. Not Connected
4. PIR Out

Other Information

Detection Area

The sensor detects the object if moving back and forth towards the sensor. Vertical movement, may not be detected.

The pyroelectric infrared sensor it may not detect in the following cases: lack of movement or no temperature change in the heat source. Besides, it could also detect the presence of heat sources other than a human body.

Difficulty in sensing the heat source

Glass, acrylic or similar materials standing between the target and the sensor may not allow a correct transmission of infrared rays.

Non-movement or quick movements of the heat source inside the detection area.

Advice

Do not use liquids to wash the sensor. If washing fluid gets through the lens, it can reduce performance.

Cofinanciado por:

COMPETE 2020 PORTUGAL 2020 UNIÃO EUROPEIA Fundos Europeus Estruturais e de Investimento

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