

TECHNICAL DATA SHEET



TRIGGO

(Proximity Presence Sensor)

IP20

← 3 M →

15°

Detection
Angle



Triggo distance measurement primarily relies on calculating the time it takes for a signal to travel to a target and back between two asynchronous transceivers or reflective surfaces. Traditional ultrasonic distance measurement systems often struggle to accurately detect small or irregularly shaped objects, such as wires or cones, due to their heavy reliance on the target's reflective properties. Triggo overcomes these limitations completely. In addition, it offers high accuracy, a long measurement range, and fast response times.

TECHNICAL SPECIFICATION

Voltage	110-240V/AC
Power Frequency	50/60Hz
Ambient Light	<3-2000LUX (adjustable)
Time Delay	Min.5sec±3sec , Max.15min±2min
Detection Angle	15°
Detection Distance	0.1-3m
Working Temperature	-20~+50C
Working Humidity	<93%RH
Installation Height	0.2-1.5m
Power Consumption	approx 0.6W
Rated Load	Max.2000W(220-240V/AC)
	1000W(110-130V/AC)
	1000W(220-240V/AC)
	500W(110-130V/AC)

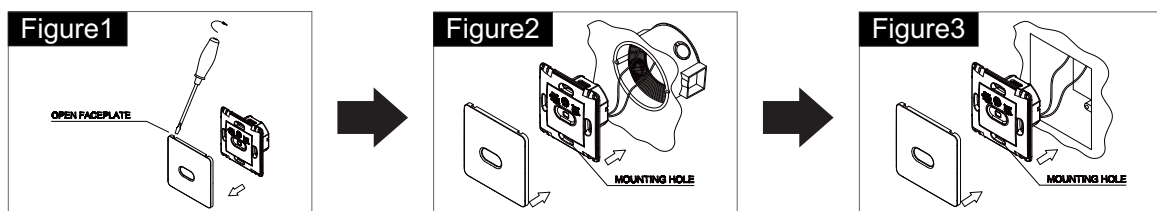
FUNCTION

- **Day/Night Detection:** Triggo can distinguish between day and night based on ambient light levels. Users can adjust its working state accordingly. When the LUX setting is at maximum, the sensor operates both during the day and at night. When set to the minimum, it functions only in very low light conditions—below 3 LUX. For detailed adjustment instructions, refer to the testing pattern.
- **Sensor Detection Range:** The sensor detects motion within a 0.1–3 meter range. When a person or object enters this range and the ambient light is below the set LUX threshold, the external light turns on. Once the person or object exits the detection area, the LED indicator turns off immediately, and the external light switches off after the preset delay time.

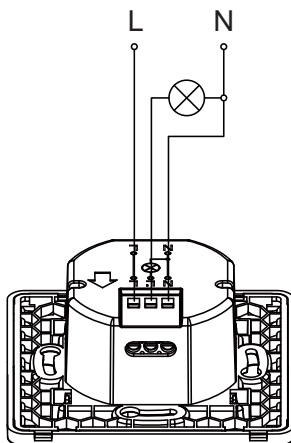
- **Adjustable Sensitivity (SENS):** The detection range can be customized from 0.1 to 3 meters based on the installation environment. Lower sensitivity (e.g., 0.1–1 meter) enables precise control for smaller areas, while higher sensitivity (up to 3 meters) is ideal for wider coverage.
- **Automatic Time Delay Reset:** If a second motion signal is detected while the sensor is still within its initial detection period, the delay timer resets and starts counting again from that moment—ensuring uninterrupted lighting while motion continues.

INSTALLATION

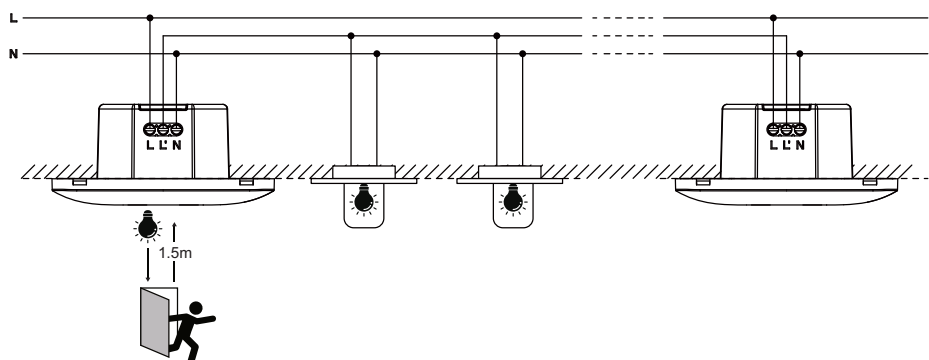
- **Remove the Faceplate:**
Detach the sensor's faceplate to access the Time and LUX adjustment knobs. (Refer to Figure 1 for visual guidance.)
- **Connect the Wires:** Loosen the screws on the connection terminal. Connect the power supply to the sensor's terminal following the wiring diagram.
- **Mount the Sensor:**
For Circular Cutouts: Insert the sensor into the round hole and secure it by tightening the splay bolts on both sides. (See Figure 2.)
For Square Cutouts: Place the sensor into the square hole and fix it in place by driving screws through the designated mounting holes. (See Figure 3.)
- **Reattach and Test:**
Reinstall the faceplate, switch on the power, and conduct a test to ensure proper functionality.



CONNECTION-WIRE DIAGRAM

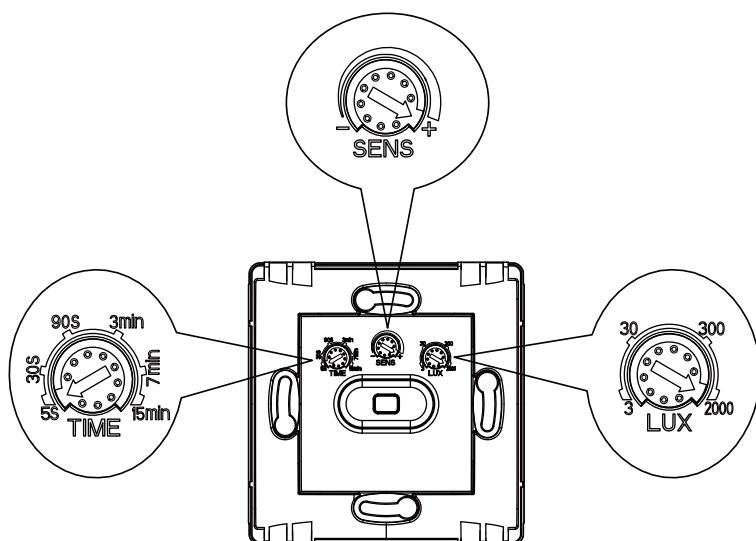


Directly connected staircase lighting:



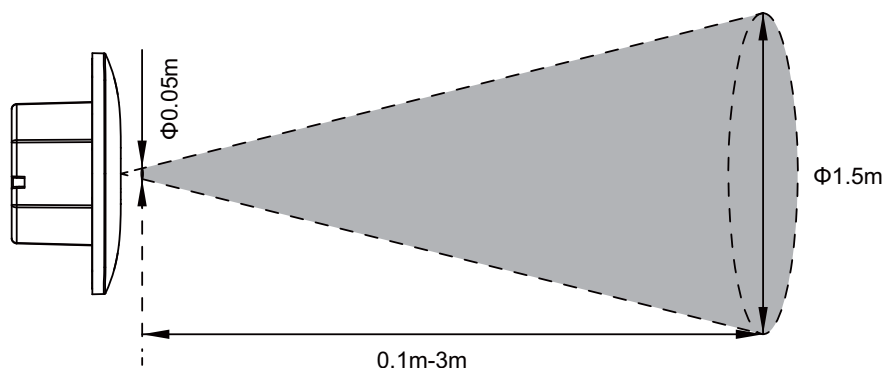
TEST

- Turn the TIME knob anti-clockwise to the minimum setting (5 seconds). Set the SENS knob clockwise to the maximum (+), and turn the LUX knob clockwise to the maximum as well.
- When a person or object enters the adjustable detection range, the LED indicator will illuminate. If the ambient light is below the preset LUX threshold, the externally connected lamp will also turn on. Once the person or object exits the detection range, the LED indicator will turn off.
- Switch on the power. Initially, the sensor and the connected lamp will remain inactive. After a 30-second warm-up period, the sensor will become operational. If motion is detected during this time, the lamp will turn on. If no further motion is detected, the connected load will turn off automatically within 5 ± 3 seconds.
- To test operation in dark conditions, turn the LUX knob anti-clockwise to the minimum setting (3 LUX). In this mode, if the ambient light is above 3 LUX, the sensor will remain inactive and the lamp will stay off. If the ambient light is below 3 LUX (darkness), the sensor will function normally. In the absence of motion, it will switch off within 5 ± 3 seconds.
- The Triggo sensor uses infrared laser technology, and its detection range may slightly reduce under strong sunlight or bright ambient conditions. This is a normal behavior of the sensor.



Note: when testing in daylight, please turn LUX knob to 2000LUX position, otherwise the sensor lamp could not work!

SENSOR INFORMATION



Detection Distance: 0.1-3m

SENSOR INFORMATION

- The sensor should be installed by an electrician or a qualified and experienced person.
- Avoid installing it on uneven surfaces.
- Ensure there are no obstructions or moving objects in front of the detection window that could interfere with detection.
- For your safety, do not open the cover if you encounter any issues after installation.

SOME PROBLEM AND SOLVED WAY

- The load do not work:
 - a. Please check if the connection-wiring of power and load is correct.
 - b. Please check if the load is good.
 - c. Please check if the working light sets correspond to ambient light.
- The sensitivity is poor:
 - a. Please check if there has any hindrance in front of the detection window to affect to receive the signal.
 - b. Please check if the ambient temperature is too high.
 - c. Please check if the induction signal source is in the detection fields
- The sensor can not shut off the load automatically:
 - a. Please check if there is continual signal in the detection field.
 - b. Please check if the time delay is the longest.
 - c. Please check if the power corresponds to the instruction.

Considering your safety, please do not open the cover when you find the hitch after installation.



C K Patel Estate, Survey Number 372, Opp
Tata Motors Service Centre, Near Rama Kaka
Deri, Chhani, Vadodara – 391740



+91 9586884885



+91 9979764665



info@sensinova.in



www.sensinova.in