

Product features

- Monitoring of light and presence detection
- Doppler radar principle and self-developed high-performance algorithm
- Compact sensor that can be integrated into luminaries
- High-performance optimized planar microstrip antenna with high gain, low sidelobes, and reduced backward radiation.
- Compatible with infrared remote-control and flexible parameter configuration
- 0-10 V Control Output
- Conforms to Zhaga Book 18 standards
- Mounting height up to 13 meters



0/1-10V



Product specifications

111189 IC-S621-ML-0-10V-PW

Input voltage	Standby current	Radar Beam Angle	RF transmit power	Dimensions (Ø x H)
12 VDC	Typ. 40 mA	105° x 105°	+8 dBm	Ø 1.87 x 1.34 in (Ø 47.5 x 33.99 mm)

Technical specifications

Electrical parameter

Operating voltage	12 VDC ± 10 %
Standby Power	Typ. 0.46 W @ 12 V
Max 0-10 V sinking current	10 mA
Power supply type	Drive separated supply
RF transmit power	+8 dBm

Sensor specifications

Radar axial distance (mounting height)	Max 13 m
Horizontal -3 dB beamwidth/E-Plane	105°
Vertical -3 dB beamwidth/H-Plane	105°
Sensing radius	3 ... 8 m, adjustable (default 8 m at 5 m mounting height, default 5 m at 13 m mounting height)
Sensing distance	Up to 30 m (wall-mounted at 1.5 m mounting height)
Delay time	5 ... 600 s (Stage 1) / 0 ... ∞ (Stage 2)
Daylight threshold:	Disable-200 Lux (default 200 Lux)
Operating Frequency	5.725 ... 5.875 GHz (ISM band)

Control

Control output	0-10 V
Dimmable	Yes
Type of installation	Luminaire integration

Environmental specifications

Housing Material	PC
Color	White
Operating temperature	-25 ... +70 °C
Storage temperature	-40 ... +85 °C
Working humidity	10 ... 90 %
Storage humidity	5 ... 95 %

Certificates & standards

Warranty	5 years
Certification	/
Type of protection	IP65

Dimensions

Housing dimensions

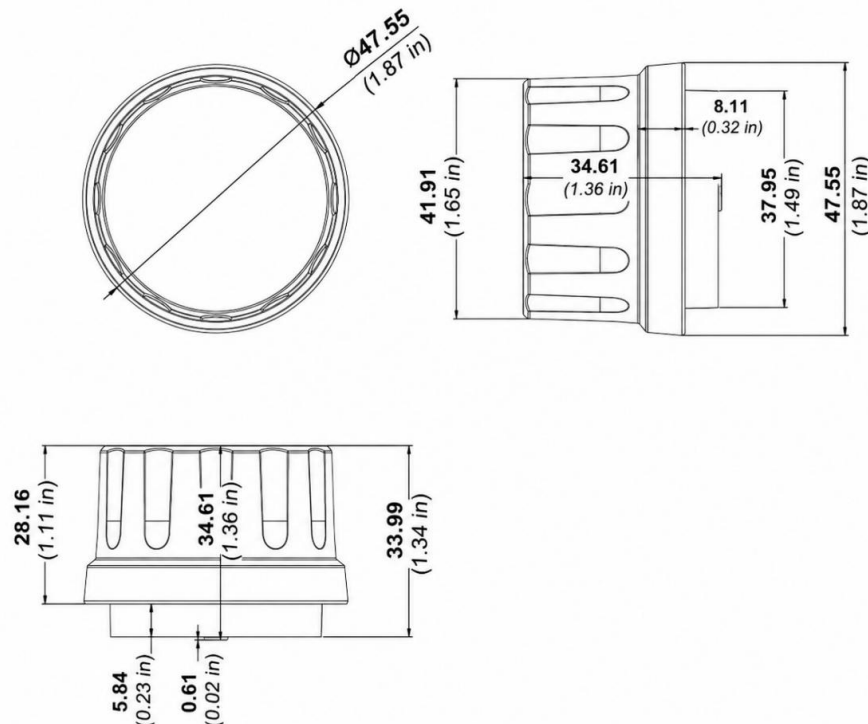
Diameter (Ø)	1.87 in (47.5mm)
Height (H)	1.34 in (33.99 mm)

All dimensions are in inches (mm).
Tolerance: ± 0.012 in (± 0.3 mm).

Packaging details

Packing units	260 pcs
Carton size	440 x 370 x 200 mm
Carton weight	0.550 kg
Product weight	0.028 kg

The final quantity per carton shall be subject to the actual packing arrangement.

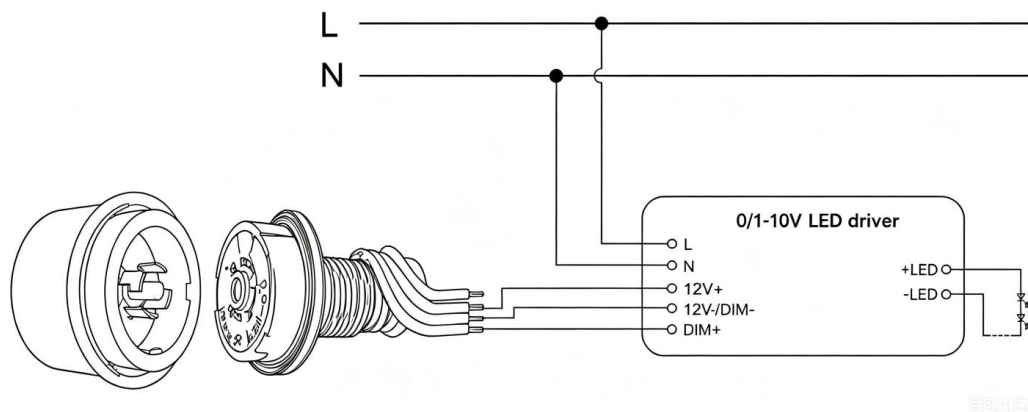


Applicable Wiring Diagram

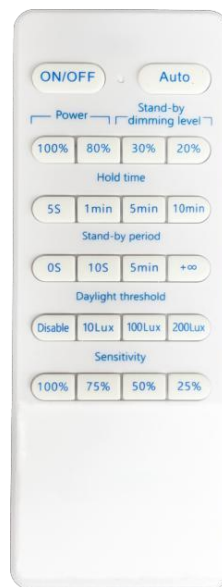
Wiring Diagram for 0-10 V Mode-Sensor Powered by Driver AUX Output



No.	Meaning	Wire Color	Description
1	AUX+	Brown	+12 VDC/AUX+
2	DIM-	Grey	Common Ground 0-10 V DIM-/AUX Power Negative
3	NC	Blue	Reserved output signal
4	DIM+	Black	0-10 V Output



Remote Controller Function Description



Remote Controller: Optional

Remote Controller Remote Functions:

No.	Button Symbol	Description	Function Description
Top center		Indicator Light	Button indicator light.
Top left button		Power On/Off	Press once to turn on the device (if the lamp is off, the lamp turns on and stays at full brightness). Press again to turn off the device (the lamp turns off and the sensor stops output).
Top right button		Restore Factory Settings	Restore the sensor to factory settings (default mounting height, daylight threshold, and other parameters).
2nd row, left 2 buttons		Set Level 1 Brightness	When a person is detected, the lamp enters Level 1 brightness. Level 1 brightness can be set as a percentage of the current brightness: 100 % or 80 %.
2nd row, right 2 buttons		Set Level 2 Brightness	When no person is detected, the lamp enters Level 2 brightness. Level 2 brightness can be set as a percentage of the current brightness: 30 % or 20 %.
3rd row		Set Hold Time for Level 1 Brightness	After a person is detected, this sets how long the lamp stays at the bright level. Options: 5 s / 1 min / 5 min / 10 min.
4th row		Set Hold Time for Level 2 Brightness	When no person is detected, this sets how long the lamp stays at the dimmed level. Options: 0 s / 10 s / 5 min / continuously on at this brightness.
5th row		Set Daylight Threshold	Set the daylight sensing threshold. When ambient light is below the selected threshold and motion is detected, the sensor outputs a high level and the lamp turns on. Options: Disable / 10 Lux / 100 Lux / 200 Lux.
6th row		Detection Range (Sensitivity)	Detection range parameter. Within the selected range, when motion is detected, the sensor outputs a high level and the lamp turns on. 100 % is the maximum range; the other options are 75 %, 50 %, and 25 % of the maximum range.

Coverage

