PRODUCT DATASHEET

TECHNICAL DOCUMENTATION

HUMAN-PRESENCE RADAR MODULE

PS-60C-01

People Counting Radar — Ceiling Mount, 60 GHz

Document No.	PS-TDS-60C-01	**Version**	V1.0
Model	PS-60C-01	**Issue Date**	2026-11-10

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Document Information

Document title	presencesensor.com Product Datasheet	**Model**	PS-60C-01
Series	Human Presence Detection (presence)	**Document No.**	PS-TDS-60C-01
Version	V1.0	**Issue date**	2026-11-10
Prepared by	PresenceSensor Engineering Team	**Reviewed by**	Product Department
Classification	Public		

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1 Product Overview

60 GHz ceiling radar for people counting with mains supply. The detection area can be configured to an irregular boundary, so it follows the room shape rather than a fixed circle.

- Model: PS-60C-01
- Product: People Counting Radar — Ceiling Mount, 60 GHz
- Series: Human Presence Detection (presence)
- Frequency band: 60 GHz

2 Key Features

- 60 GHz radar with ≤8 dBm transmit power
- Detection area configurable to an irregular boundary
- Wide angle 90–100°, narrow angle about 70°, elliptical coverage from above
- AC 110–220 V supply, two-wire connection
- Unaffected by light, temperature or haze

Features are typical for this series. Refer to the latest datasheet for model-specific values.

3 Applications

Ceiling counting for retail aisles, lobbies and meeting spaces where the room shape is not a square.

4 Technical Specifications

Frequency band	60 GHz	**Modulation**	FMCW
Supply voltage	AC 110–220 V, two-wire	**Operating current**	—
Average power	—	**Detection range**	—
Field of view	Wide 90–100°, narrow ~70°, elliptical	**Range resolution**	—
Interface	WiFi	**Output**	—
Operating temp.	−10 to +55 °C	**Storage temp.**	—
Dimensions	Φ80 × 45.5 mm	**Antenna**	—
Certification	—	**Remarks**	Requires permanent supply —

			do not wire it behind the lighting switch.

Table 1 Technical specifications. Subject to the latest datasheet without prior notice.

5 Wiring Terminals

The module uses a 5-pin header/socket interface defined as follows:

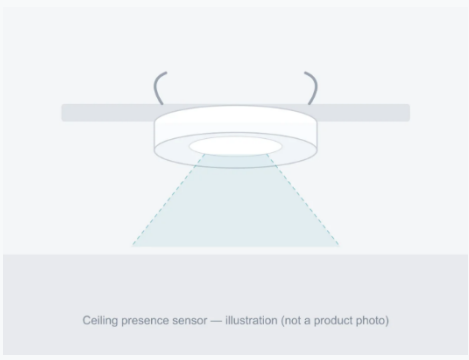
Pin	Name	Type	Description
1	L	Power	AC 110–220 V line input
2	N	Power	AC neutral; two-wire, polarity not marked
3	—	—	—
4	—	—	—
5	—	—	—

Table 2 Pin definition. Refer to the datasheet of the specific model.

6 Dimensions and Installation

6.1 Dimensions

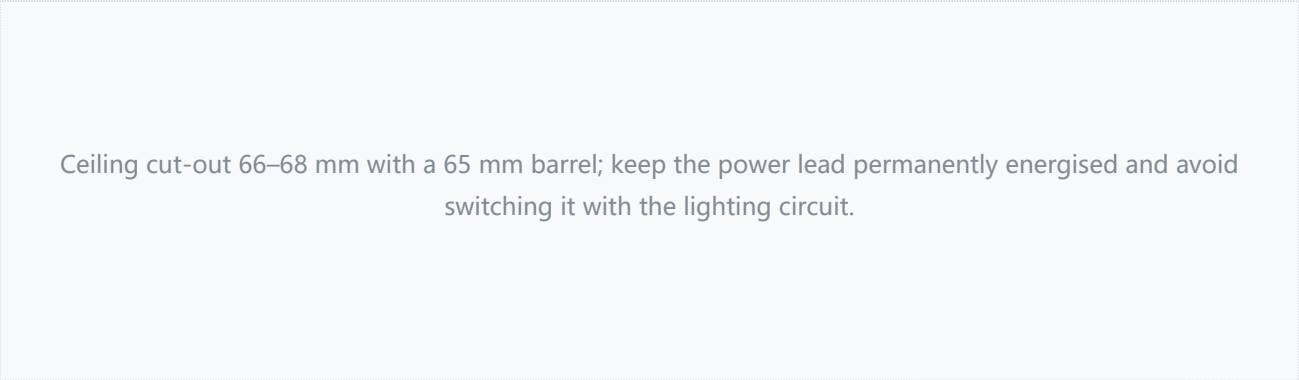
Outline dimensions per the manufacturer drawing (unit: mm).



Product illustration

6.2 Installation

Ceiling cut-out 66–68 mm with a 65 mm barrel; keep the power lead permanently energised and avoid switching it with the lighting circuit.



Installation

Refer to the Installation Guide of the specific model for the relationship between mounting height, tilt angle and detection coverage.

7 Communication and Configuration

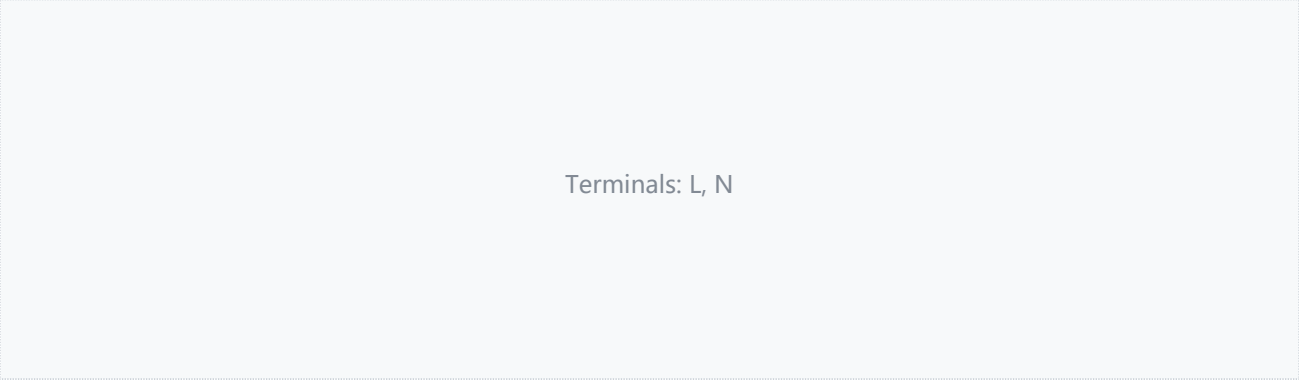
7.1 Communication Protocol

Counting data is reported over WiFi to the building platform.

7.2 Configuration Tool

Configuration is done through the platform the device is paired with.

7.3 Typical Application Circuit



Wiring terminals

8 Model Selection

The series is organized by frequency band and sensing function. Select a model based on detection range, mounting method and interface.

Model	Band	Series	Typical Application
PS-60C-01	60G	Human Presence Detection	Indoor presence detection, smart lighting, building energy saving,

			security automation, elderly care
PS-24C-01	24G	Human Presence Detection	Indoor presence detection, smart lighting, building energy saving, security automation, elderly care
PS-24C-02	24G	Human Presence Detection	Indoor presence detection, smart lighting, building energy saving, security automation, elderly care
PS-24C-03	24G	Human Presence Detection	Indoor presence detection, smart lighting, building energy saving, security automation, elderly care

Table 3 Model selection. See the product center on the website for the complete model list.

9 Document Downloads

The following documents are available for this model on its product page at {SITE_BRAND}.

Category	File	Version	Description
Development	—	—	Datasheet / user manual / protocol
Development	—	—	Schematics / footprint / 3D model
Application	—	—	Configuration tool
Utility	—	—	Serial driver / terminal

Table 4 Document list. File names and versions follow the download page.

10 Ordering Information and Support

Please specify the model, quantity and interface when ordering. For samples, quotations or technical support:

- Website: presencesensor.com
- Products: presencesensor.com/products
- Support: sales@presencesensor.com
- Sales: sales@presencesensor.com

Appendix A Revision History

Version	Date	Description	Prepared / Reviewed
V1.0	2026-11-10	Initial release	PresenceSensor Engineering Team
—	—	—	PresenceSensor Engineering Team
—	—	—	PresenceSensor Engineering Team

Table 5 Revision history. Update the version and date for every revision.