PRODUCT DATASHEET

TECHNICAL DOCUMENTATION

HUMAN-PRESENCE RADAR MODULE

PS-24C-02

Ceiling Presence Sensor — 24 GHz, NearLink (XingShan)

Document No.	PS-TDS-24C-02	**Version**	V1.0
Model	PS-24C-02	**Issue Date**	2026-11-08

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Document Information

Document title	presencesensor.com Product Datasheet	**Model**	PS-24C-02
Series	Human Presence Detection (presence)	**Document No.**	PS-TDS-24C-02
Version	V1.0	**Issue date**	2026-11-08
Prepared by	PresenceSensor Engineering Team	**Reviewed by**	Product Department
Classification	Public		

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1 Product Overview

Ceiling-mounted 24 GHz radar sensor for human presence with NearLink (XingShan) wireless. It detects breathing, micro-motion and movement, switches the lighting load directly, and exposes its settings through the paired gateway or app.

- Model: PS-24C-02
- Product: Ceiling Presence Sensor — 24 GHz, NearLink (XingShan)
- Series: Human Presence Detection (presence)
- Frequency band: 24 GHz

2 Key Features

- 24 GHz radar detects breathing, micro-motion and movement
- NearLink (XingShan) wireless link
- Motion and micro-motion detection Ø4–7 m (reference)
- 120° field of view; recommended ceiling height 2.7–3 m
- Switched output up to 300 W, DIP switches for local configuration

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

3 Applications

Lighting control in corridors, bathrooms and utility rooms that need stationary-occupant detection.

4 Technical Specifications

Frequency band	24 GHz	**Modulation**	—
Supply voltage	110–260 V AC	**Operating current**	—
Average power	≤300 W	**Detection range**	—
Field of view	120°	**Range resolution**	—
Interface	NearLink (XingShan)	**Output**	VOUT / VIN / GND / GND (P1)
Operating temp.	—	**Storage temp.**	—
Dimensions	Ceiling, Ø50 mm cut-out	**Antenna**	—

Certification	—	**Remarks**	Requires a NearLink (XingShan) gateway; it does not join Zigbee, Thread or WiFi networks.

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:

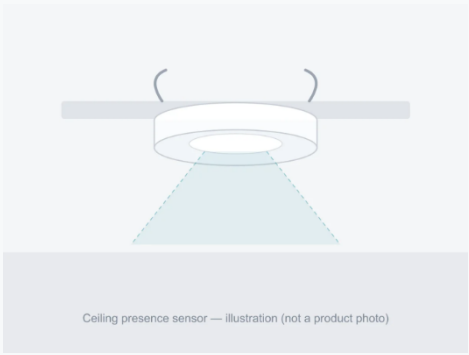
Pin	Name	Type	Description
1	VOUT	Output	Switched output, lighting load ≤300 W
2	VIN	Power	Mains input 110–260 V
3	GND	Power	Ground
4	GND	Power	Ground
5	—	—	—

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

6 Dimensions and Installation

6.1 Dimensions

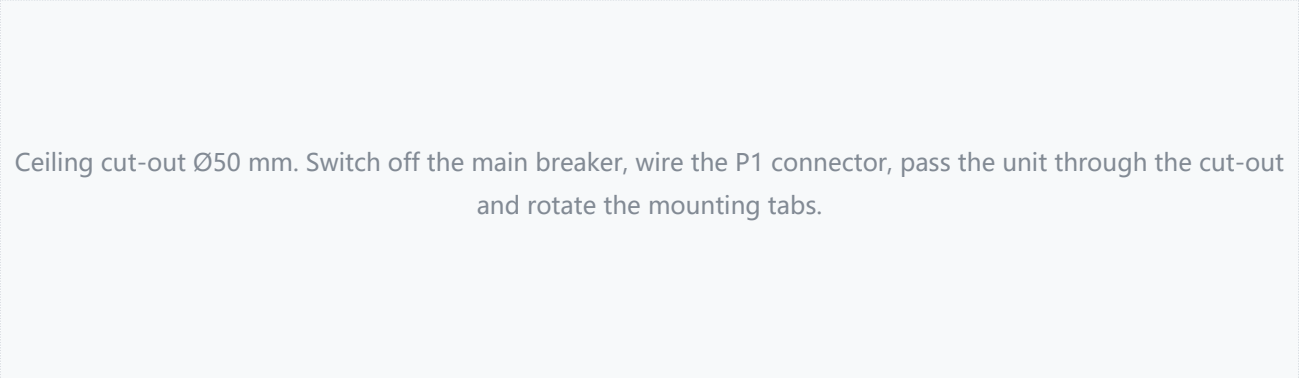
Outline dimensions per the manufacturer drawing (unit: mm).



Product illustration

6.2 Installation

Ceiling cut-out Ø50 mm. Switch off the main breaker, wire the P1 connector, pass the unit through the cut-out and rotate the mounting tabs.



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

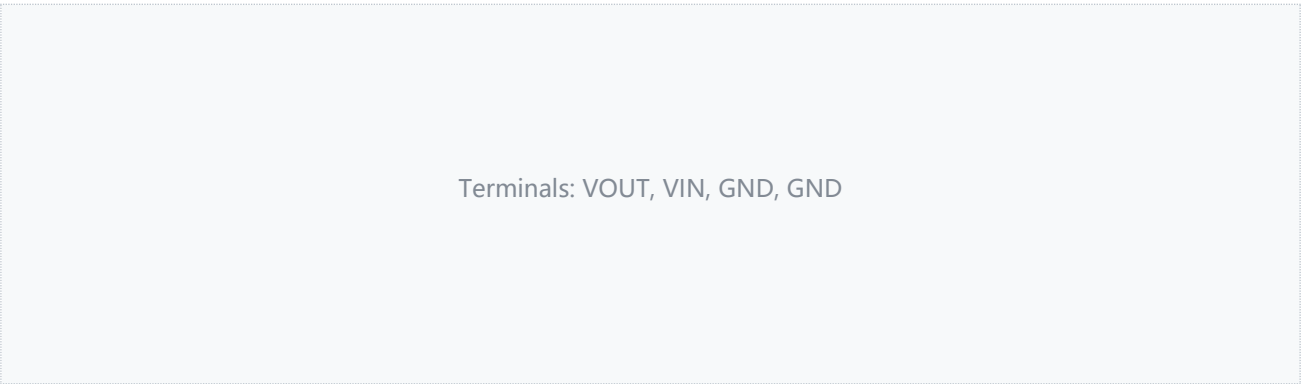
7.1 Communication Protocol

Presence data is carried over NearLink (XingShan) to the paired gateway; some parameters are also set by DIP switch.

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-24C-02	24G	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-03	24G	Human Presence Detection	Indoor presence detection, smart lighting, building energy saving, security automation, elderly care
PS-24C-04	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	2026-11-08	Initial release	PresenceSensor Engineering Team
—	—	—	PresenceSensor Engineering Team
—	—	—	PresenceSensor Engineering Team

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