People Counting Occupancy Sensor

Sensor Model: S-PC-C02-DRWH

Specifications

- Input Voltage - 12 VDC
- Operating Conditions - The temperature difference between the detection target and the background must be at least 0.5 °C.
- Ambient temperature - 32-104 F, 0 - +40 °C
- Storage temperature - 14 - 122 F, -10 - +50 °C
- Resolution - 28 x 15 IR pixels
- Spectral detection range - 8 -12 µm (LWIR)
- Field of view - X: 140˚, Y: 100˚
- Framerate - 4 Hz
- Dimensions - 3.1" height x 3.3 diameter (79mm x 85mm)
- Cutout size - 2.95"(75mm) diameter / 3.07" (78mm) depth
- Warranty - 5 Years

Description

The flush-mounted S-PC-C represents the next evolution in advanced sensing technology. Leveraging cutting-edge thermal sensing and embedded Artificial Intelligence (AI), it delivers the world's first 100% privacy-protective human counting and location detection for real-time occupancy data capture. Additionally, it features a programmable radio transceiver designed for low-power, low-data bandwidth IoT mesh networks.

Features

- Actual human presence, count and location with 100% privacy.
- People count through/at set line/zone (door counting).
- Hot object count, location and temperature data.
- Thermal mapping of scenery with up to ±0.5 ˚C accuracy.

Certifications

CE UL

Applications

Reduce energy consumption by utilizing highly accurate human occupancy data and thermal mapping for HVAC and lighting optimization. Optimize space through granular utilization data and door counting capabilities. Enhance evacuation support with human presence tracking and hazardous hotspot location data. Improve security with tailgate detection for access control and intruder detection in non-visible conditions. Increase safety by detecting hazardous hotspots and fire locations.

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

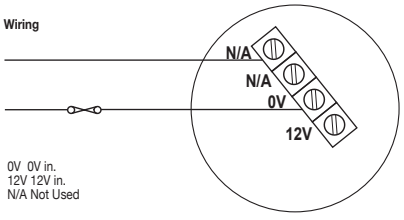
Typical maximum distance:

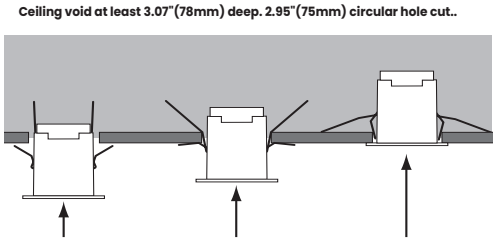
Outdoor (line of sight):	200ft
Indoor (through building material):	
Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar:	0ft

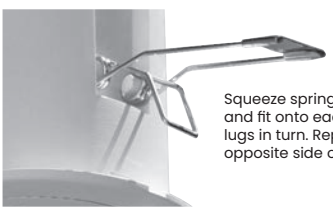
Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

For design purposes a 60ft. maximum distance is appropriate for most installations.

Installation Instructions



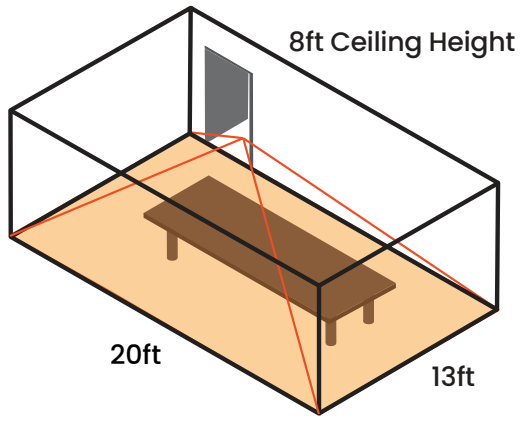




Squeeze spring coils together and fit onto each of the two lugs in turn. Repeat on opposite side of product .

Optimal location of the Sensor - Occupancy

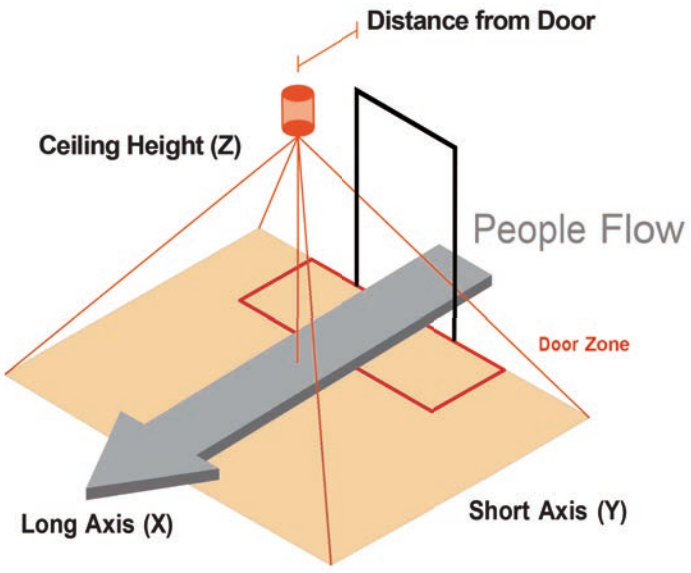
For occupancy applications, ensure that the sensor is installed with the long axis directly parallel with the long axis of the room, and the long axis of any furniture.



Ceiling Height (Z) [FT]	Distance from Door [FT]	Long Axis (X) [FT]	Short Axis (Y) [FT]
8	3	20	13
9	3.5	21	14
10	4	23	16
12	5	29	20

Optimal location of the Sensor - Door Counting

For door counting applications, ensure that the sensor is installed directly inline with the centre of the door, and at the correct distance from the threshold.



Ceiling Height (Z) [FT]	Distance from Door [FT]	Long Axis (X) [FT]	Short Axis (Y) [FT]
8	3	20	13
9	3.5	21	14
10	4	23	16
12	5	29	20