



SYCRASENSOR SRD3

Modular Multifunction 60GHz Radar Sensor

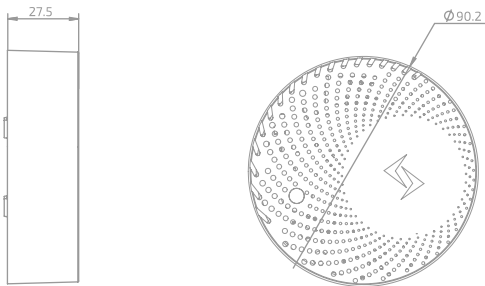
SycraSensor SRD3 is a modular RADAR sensor that can be fully customized based on the needs of the building. Its wireless capability facilitates installation and requires very low to no maintenance while in operation.

It allows collection of complex information such as people motion, ambient light, temperature, pressure, humidity and indoor air quality (IAQ), odors and noise.

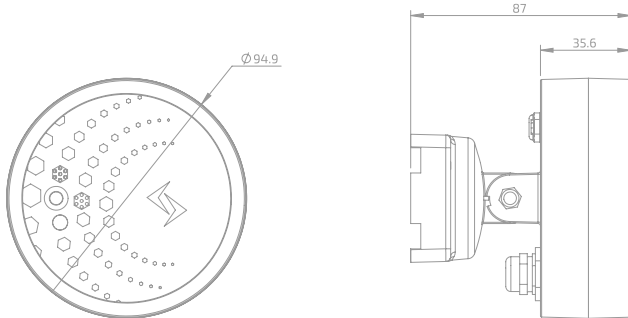
All those information are analyzed and implemented by Sycra CC to optimize building automation and maximize Energy savings and operations.

SycraSensor SRD3 also supports Over-The-Air (OTA) and Device Management (DM) protocols to perform monitoring, maintenance and Firmware updates.

H1 Indoor casing



H2 Outdoor/waterproof casing



Features

- Long Range 100m motion sensing (in PL/WL mounting options)
- Standard range 6m motion sensing
- Over the Head motion sensing with a coverage of 360 degrees and 6 meters diameter (in CL mounting option)
- People movement tracking
- People-counting and locating
- Works in any weather and Environments
- Compact dimensions
- Modular Design
- Fast and easy installation
- Wireless Mesh OTA system setup and firmware update
- Wireless Mesh system setup and data transmission: people count, lux, temperature, humidity, pressure and Odor detection
- Radar can sense through thin dry walls and glass walls

Applications

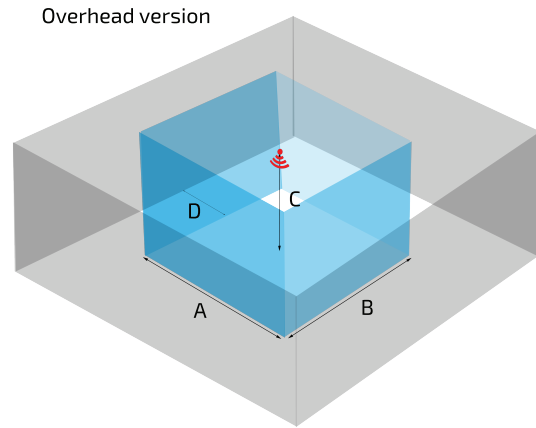
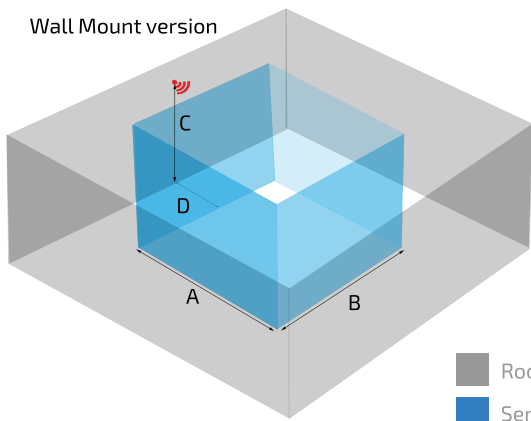
- Building Automation
- Greenhouse
- Smart Garden
- Traffic and Street Lights
- Industrial Facilities

Technical data

Colors	Gray, Black or White	
Operating Temperature	-20°C ~ 85°C / -4°F ~185 °F	
Size (mm)	H1: 121x123x60	H2: Ø90X25
Ingress Protection	H1: IP20	H2: IP66
Material	Body: ABS / Cover: ABS	
Weight	up to 500g / up to 1.1 Lbs.	
Input voltage	12~48VDC / 100~240VAC	
Max Current	2000mA	
Wireless Mesh (free air)	H1: 400m	H2 (using MCI): 400m
Radar Sensor	60Ghz FMCW 100m /FV: 90° (LRC only PL/WL) 6m/FV: 110° (SRC only PL/WL) 3m Radius 360° (SRC only CL)	
People-counting	10 people simultaneously Accuracy: 98%	
Ambient Light Sensor	100 lux to 20,000 lux ±5%FS, Spectral range 380-780nm	
Temperature Sensor	-20°C to 80°C ±1.25°C	
Humidity Sensor	0-100%RH ±3%RH	
Pressure Sensor	300~1100hPa ±1.7hPa	
Gas and CO2	TVOC gas detection of CO2 % ammonia / sulfur based odors (odor detection)	
Accessories	- Voltage supply 24V AC/DC converter - Internal Battery (only H2) - Mounting brackets - Exchangeable MCI module (only H2)	



Sensor range



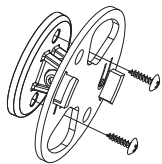
Room area
 Sensor range
 Sensor

Room area
 Sensor range
 Sensor

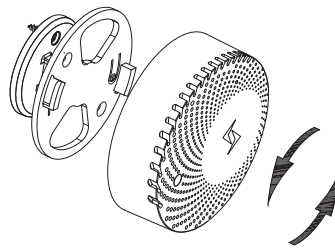
	Standard Version (Wall mount)	Long Range Version (Wall mount)	Overhead Version
A	6m	68m	6m
B	10m	78m	6m
C (Recommended height)	1.5m - 2.5m	2m-2.5m	2.8m-3m
D (Blind spot section)	2m	2m	N/A

Installation diagrams

H1 Wall mount installation

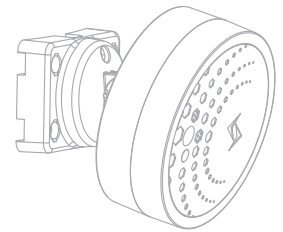


STEP 1: Fix the body to the wall with the 2 provided screws



STEP 2: Clip the body onto the main base plate.

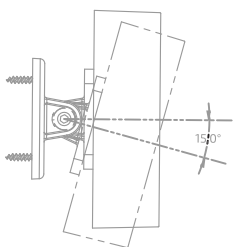
H2 Wall mount installation



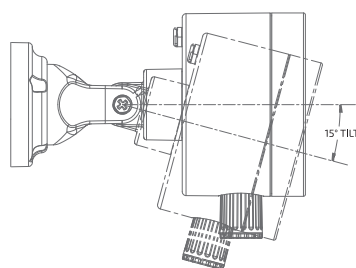
Fix the body with the 4 provided screws

Tilt Adjustment

H1 Version Tilt



H2 Version Tilt



Wall mount Version (Standard)	Overhead Version	Long Range (Wall mount) Version
10°-15°	0°	2°

Configuration Tables

1- Power

D10	24-48VDC, 10W, Max 420mA @ 24V
A10	10W, 110-240VAC

2- Range

LRC	Long Range Counting
SRC	Standard Range Counting

3- Environmental Sensors Options (ESO)

R000	Radar
RL00	Radar and Light
RLTC	Radar, Temperature, Humidity, Light, pressure and CO2
PLHP	Radar, Temperature, Humidity, Light and pressure

4- Mounting

WL	Wall
PL	Pole
CL	Ceiling

5- Control

4	Wireless Mesh
5	Wireless/LoRa

6- Cable

1D0	1m DC Open End
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7- Finish

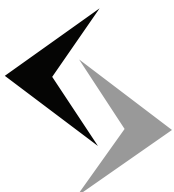
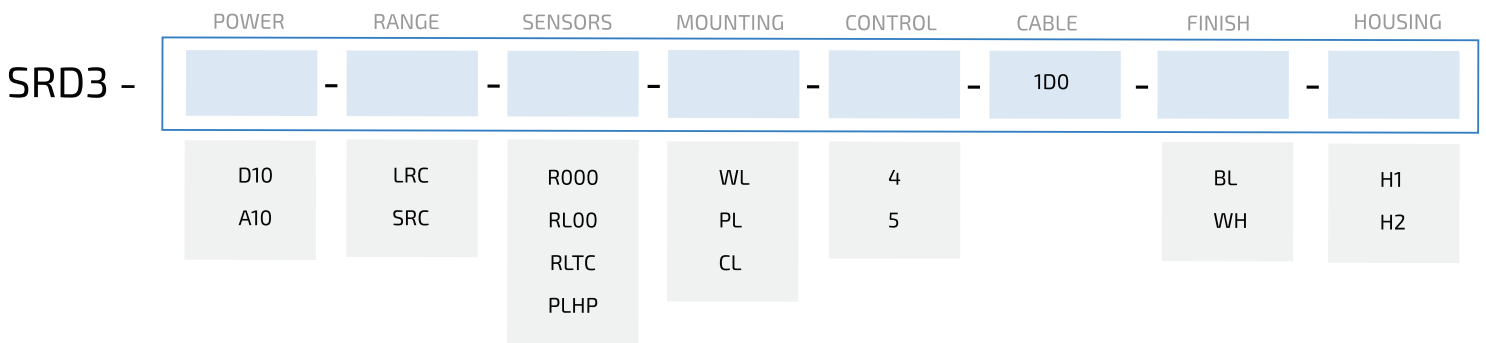
BL	Black
WH	White

8- Housing

H1	Indoor Housing
H2	IP66 Housing

Note: D420MA is replaced by D10, all technical characteristics and features remain the same.

Configuration options



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Disclaimer:

Sycra reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately. For more information and details, visit www.sycratech.com or contact info@sycratech.com.

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