OPS242 Short-Range Radar

OmniPreSense's OPS242 is complete short-range radar (SRR) solution providing motion detection, speed, and direction reporting. All radar signal processing is done on board and a simple API reports the processed data. Flexible control over the reporting format, sample rate, and module power levels are provided. The OPS242 carries FCC modular approval, simplifying development and regulatory certifications for production release.

The OPS242 module can be connected to any Smart USB host (Raspberry Pi, Android device supporting OTG, PC or Mac). Additional processing and/or communication to the cloud can be performed for further data analysis or networked action.

Features

- 1-25m (3-80') detection range
- Speed reporting up to 348mph
- Direction reporting (Inbound/Outbound)
- Wide 76° beam width (-3 dB)
- Simple API control over USB interface
- FCC modular approval
- Industrial temp operation (-40 to +85°C)
- 1.4W Active power, 0.6W Idle power
- Smaller form factor 40 x 54 x 8 mm, 10g
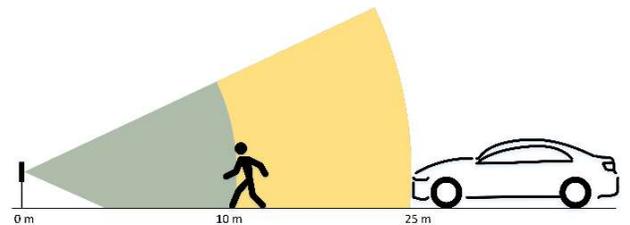
Applications

- IoT Sensor
- Robotics
- Drones

Functionality

- Traffic Monitoring
- Presence Detection
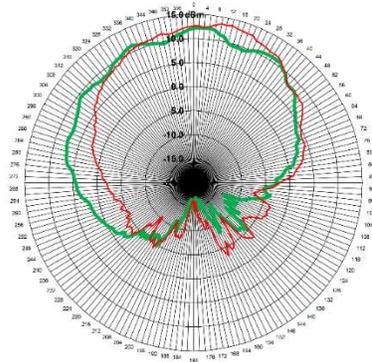- Speed/Direction Reporting
- Collision Avoidance

OPS242 Sensor

OPS242 Detection Range

Antenna Pattern

Order Part Number

OPS242-A-CW-RP radar sensor module

OPS242-A-CW-ENC enclosure

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