OmniPreSense   OPS241-B Short-Range Radar

OmniPreSense's OPS241-B is complete short-range FMCW (frequency modulated constant wave) radar solution providing range reporting for multiple objects in its field of view. All radar signal processing is done on board and a simple API reports the processed data. Flexible control over the reporting format and transmit power levels is provided.

The OPS241-B module can be connected to any Smart USB host (Raspberry Pi, Android device supporting OTG, PC or Mac) or Arduino using its UART interface to enable a simple IoT sensor.

OPS241-B Sensor

Features

- 1-20m (3-66') detection range
- Range Resolution of 0.075m
- Reporting accuracy ≤10%
- Wide 78° beam width (-3 dB)
- UART and USB interface
- Simple API control, 14Hz report rate
- Industrial temp operation (-40 to +85°C)
- 1.4W Active power, 0.6W Idle power
- Small form factor 53 x 59 x 12 mm, 11g (sensor only)
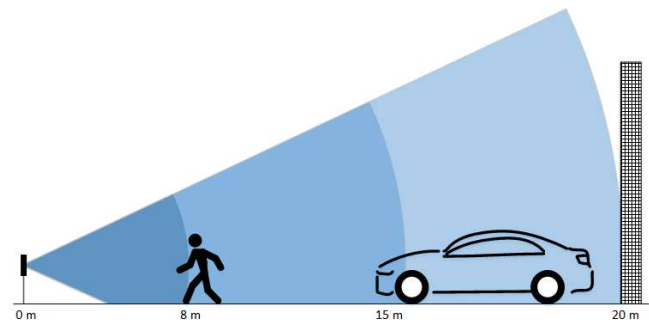
Applications

- Traffic Monitoring
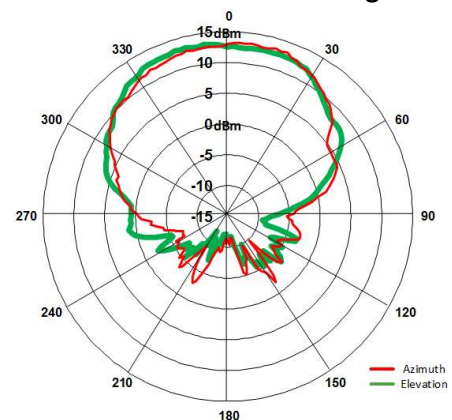- IoT Sensor
- Drone/Robotics

Functionality

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

OPS241-B Detection Range

Antenna Pattern

Order Part Number

OPS241-B-FM-RP   Radar Sensor

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