



ImageSensing
systems



RTMS Sx-300E

The non-intrusive, radar-based RTMS Sx-300E is an advanced sensor that empowers smart decisions by accurately detecting and measuring of traffic on roadways. It is all-weather accurate and virtually maintenance-free. Best of all, Sx-300E is renowned for long-term worry-free reliability.

The RTMS Sx-300E is a small roadside pole-mounted radar, operating in the microwave band. Simultaneously, the sensor provides per-lane presence as well as volume, occupancy, speed and classification information in up to 4 user-defined detection zones. Output information is provided to existing controllers via contact closure and to other computing systems by serial or TCP/IP communication port. A single radar can replace multiple inductive loop detectors.

The RTMS technology provides meaningful and reliable data that maximizes the full potential of existing infrastructure and optimizes the safety and efficiency of every city.

KEY BENEFITS

- Fast, safe installation, on existing road-side poles, with no traffic disruptions
- Compatible with all RTMS integrated solutions including detection station, counting, urban traffic control, event reporting, data collection
- Highly flexible: suitable for any road and pole type, with various built-in communication options, including contact pairs and TCP/IP
- Zero Setback™ feature means any pole is suitable
- Low power requirement allows low cost solar power operation

RTMS Sx-300E

SPECIFICATION

Average Coverage (Radar)

The Sx-300 detection field of view covers the area defined by:

- Elevation angle
50 degrees
- Azimuth
12 degrees
- Range
0 to 76 m (0 to 250 ft)

Measurement Resolution

- Detection zones
up to 4 zones
- Detection range (increment)
0.4 m (1.3 ft)
- Zone width
2 to 7 m (7 - 20 ft)
- Time events
1.3 msec

Frequency Bands

- K band, model Sx-300 operates at high resolution in the 24 GHz band

Regulatory

- FCC
- CE ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 301 489-17
- Canadian CSA C108.8 - M1983

Interface

- Single MS type connector provides communications and output signals
- Data: volume, occupancy, speed, gap or headway, six vehicle classes, 85th percentile
- 8MB built-in memory for data storage
- Isolated configurable RS232/RS-485 port provides vehicle presence, per vehicle and statistical data
- Bluetooth communication for setup, calibration and data access

Mechanical

- Unit is encased in a rugged, water-tight NEMA 4X & IP-67 polycarbonate enclosure
- Universal mounting bracket mountable on any structure. Tilts on three axes and is lockable.
- Size
23 x 18 x 17 cm (9 x 7.25 x 6.75 in)
- Weight
1.02 kg (2.24 lbs) without mount

Power

- Operates on 12 - 24 VAC or VDC
3.6W max standard
- EN 61000-4-5

Maintainability

- Ultra-reliable: MTBF (mean time between failures) designed for 90,000 hours (10 years)
- Self-test diagnostic software
- Quick replacement
- Firmware field upgradable

Environmental Conditions

- Temperature range
-40° to +74°C (-40° to 165°F)
- NEMA TS2: 2003
- Wind
Up to 190 km/hr (120 mph)
- IP 67 compliant

Warranty

- Three-year warranty



CONTACTS

World Headquarters

400 Spruce Tree Centre
1600 University Avenue West
St. Paul, MN 55104 USA
Phone: +1.651.603.7700
Fax: +1.651.305.6402
info@imagesensing.com
imagesensing.com

Image Sensing Systems Spain

C/ Consell de Cent 357-359, 5-1
08007 Barcelona
Spain
sales@imagesensing.com



imagesensing.com

Due to ISS' continuous efforts to develop the products that are most responsive to our customers needs, the above specifications are subject to change. To verify the current information, please visit the Image Sensing Systems website.

©2020 Image Sensing Systems, Inc. Part Number: 3095 Rev 200728