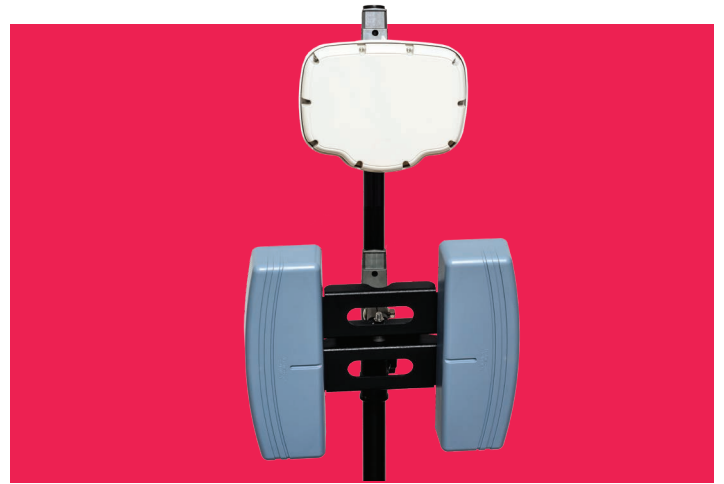


RTMS®

Sx-300 BT



The RTMS Sx-300 with integrated dual channel Bluetooth® sensor is a powerful solution. The combination of the RTMS radar with the state of the art Bluetooth sensor is the ideal sensor for incident detection and providing the most accurate travel time and origin/destination information. This integrated Bluetooth sensor detects the Bluetooth signals from vehicles, hands-free sets, mobile phones and navigation systems. Best of all, Sx-300 is renowned for long-term worry-free reliability.

The RTMS Sx-300 BT 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 12 user-defined detection zones. Output information is available to computer systems by serial communication and TCP/IP simultaneously, while Bluetooth information is available via TCP/IP. A single radar can replace multiple inductive loop detectors.

The Sx-300's all-in-one concept combines a high resolution radar and Bluetooth sensor all in a single enclosure. This sleek cabinet free detection station is simple to integrate into any system whether urban signal control or highway traffic management.

BENEFITS

- Fast, safe installation, on existing road-side poles, with no traffic disruptions
- Field proven technology
- Zero Setback™ feature means any pole is suitable
- Accurate journey times from spatial sensor data
- Single sensor providing both point and spatial data
- Low power requirement allows low cost solar power operation
- Cost-effective solution for traffic management

FEATURES

- Provides presence indication and accurate measurements of volume, occupancy, speed and classification in up to 12 separate zones (lanes) up to 76 meters (250 feet) away
- Fully programmable to support multiple applications using simple intuitive software on a Notebook PC
- True-presence: detects stationary and fast moving vehicles; single or dual loop emulation
- Reliable all-weather performance
- Low life-cycle cost with no routine maintenance procedures and high reliability. Typical MTBF – 10 years or 90,000 hours
- Easy to calibrate by fast, automatic set-up wizard
- Vehicle detection and tracking
- Fast, reliable and secure data transmission
- NTCIP compliant

APPLICATIONS

- Freeway traffic management and incident detection
- Traveler information
- Journey time and origin/destination systems
- Queue detection
- Work zone safety systems



RTMS Sx-300 BT

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 12 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 EN 300-328, EN 300 440-1, EN 300 440-2, EN 301 489-1, EN 301 489-3, EN 60950-1
- Canadian CSA C108.8 - M1983
- RoHs

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 RTMS data storage
- Expanded storage for Bluetooth and RTMS data storage
- Isolated configurable RS232/RS-485 port provides vehicle presence, per vehicle and statistical data
- TCP/IP communication port for RTMS and Bluetooth configuration and data

Power

- Operates on 12 - 24 VDC
6W max standard

Bluetooth

- Dual channel operation
- Two antennas
- 110 degree horizontal angle; 30 degree vertical angle
- Detects all standard Bluetooth versions
- More than 100 meter range
- -104dB receive sensitivity
- GPS

Mechanical

- Radar and Bluetooth detection units are encased in a rugged, water-tight NEMA 4X & IP67 polycarbonate enclosure
- Universal mounting bracket mountable on any structure. Tilts on three axes and is lockable.
- Dimensions
23 x 18 x 17 cm (9 x 7.25 x 6.75 in) - detector
41 x 34 x 21 cm (16 x 13.5 x 8.25 in) - antenna
- Weight
1.18 kg (4 lbs) - detector
3.17 kg (7 lbs) - antenna assembly

Maintainability

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

Environmental Conditions

- Temperature range
-40° to +74°C (-40° to 165°F)
- NEMA TS2: 2003
- Wind
Up to 190 km/hr (120 mph)
- IP67 compliant (detector)
- IP65 compliant (antenna assembly)

Warranty

- Five-year warranty

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