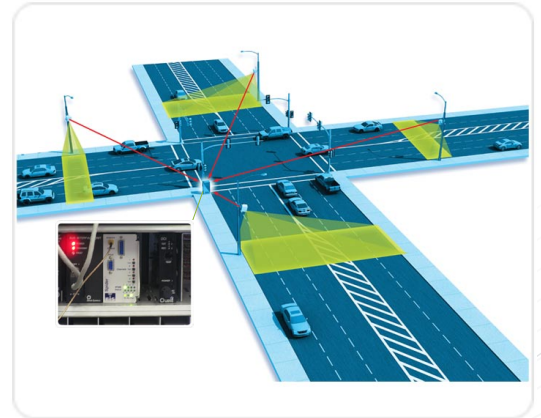


SPIDER™

The RTMS® SPIDER™ (Simple Presence In-Lane Detection Event Reporting) system detects, collects and transmits traffic data using wireless communications. The simple solution for advance detection.

SPIDER builds upon the advantages of the RTMS radar sensor and radio frequency modems, integrating them into a seamless solution. A single remote SPIDER Hub (typically located in a controller cabinet) concentrates data from several remote RTMS radar sensors, using point-to-multipoint digital spread spectrum wireless technology, eliminating the need for fixed communication lines, trenching and digging.



APPLICATIONS

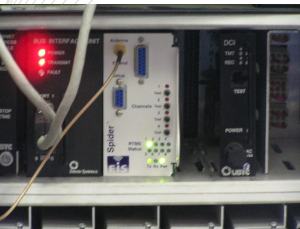
- > Mid-block detection
- > System and Advanced Detectors
- > Corridor/Arterial Signal Light Coordination
- > Adaptive Urban Traffic Control
- > Interchange/Toll plaza traffic monitoring

FEATURES

- > Provides wireless presence indication (or traffic measurement parameters) directly into the Controller Cabinet
- > Up to 8 Side-fired RTMS sensors per SPIDER Hub
- > Up to 8 lanes per RTMS radar sensor
- > Up to 32 contact pairs per SPIDER Hub
- > Dual-loop speed-trap emulation
- > Real-time secure wireless communication
- > Reliable all-weather performance

BENEFITS

- > Low-cost, completely wireless solution that replaces advance loop detectors and lead-in wires
- > No road works, lane closures, digging or trenching
- > Flexible installation (number of lanes and location)
- > No scheduled maintenance required
- > Compatible with NEMA TS-1, TS-2, 170 and 2070 Controllers
- > Unparalleled local support



SPECIFICATIONS

System

- > Point-to-multipoint frequency hopping spread spectrum radio modems
- > 902-928 or 2400-2483 MHz ISM band
- > Highest interference immunity by 64 pseudo-random hopping patterns
- > Up to 30 km range - depending on power, line-of-sight and antenna type
- > CRC-16 error protection
- > Multiple SPIDER™ networks can operate in overlapping areas with no interference
- > Secure communication by network addressing and encryption
- > FCC rules Part 15 approval and CE approval for license-free operation

RTMS

- > Model K4 or X3 with integral DSS RF modem and whip antenna
- > All-weather accurate measurement of presence, volume, occupancy and average speed in up to 8 lanes

SPIDER Hub

- > Includes integral DSS RF modem
- > Shelf mounted in controller cabinet
- > SPIDER-RM, Plugs in directly into

controller

- > Output: up to 32 contact closures or data concentrated from up to 8 RTMS sensors
- > Remote programming, monitoring and data by serial port

Power Requirements

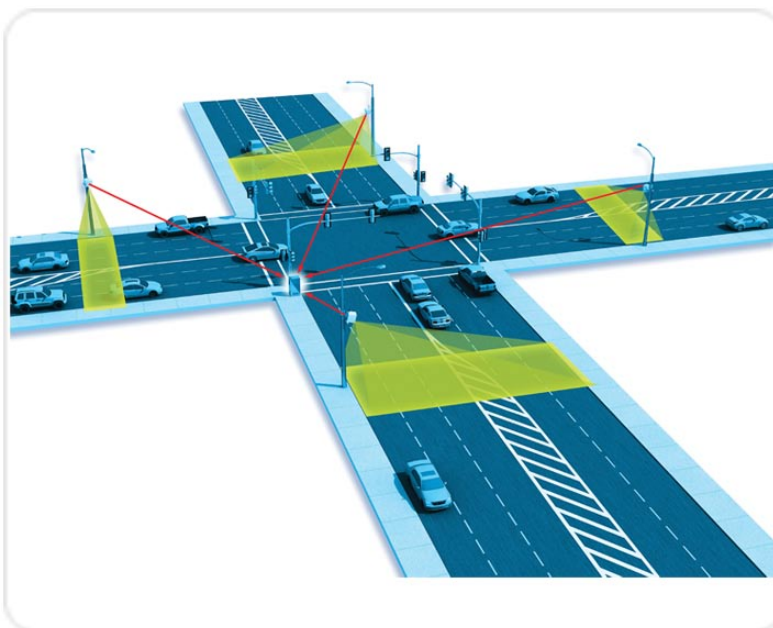
- > 9-30 VDC/AC at 1.5 Watt - SPIDER
- > 12-24 VDC at 1.5 Watt - SPIDER RM

Environmental Conditions

- > Temperature range -37°C to +74°C
- > Humidity to 95%
- > Lightning and surge protected

Mechanical

- > Rack- Mount
 - Length x Width x Height
 - 165 mm x 60 mm x 115 mm
 - (6.5 in x 2.4 in x 4.5 in)
 - Weight 220g (0.5 lb)
- > Shelf Mount
 - Length x Height x Width
 - 127 mm x 51 mm x 127 mm
 - (5 in x 2 in x 5 in)
 - Weight 450 g (1 lb)



ISO 9001 certified

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Due to ISS' continuous efforts to develop the products that are most responsive to our customers needs, the above specifications are subject to change.



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