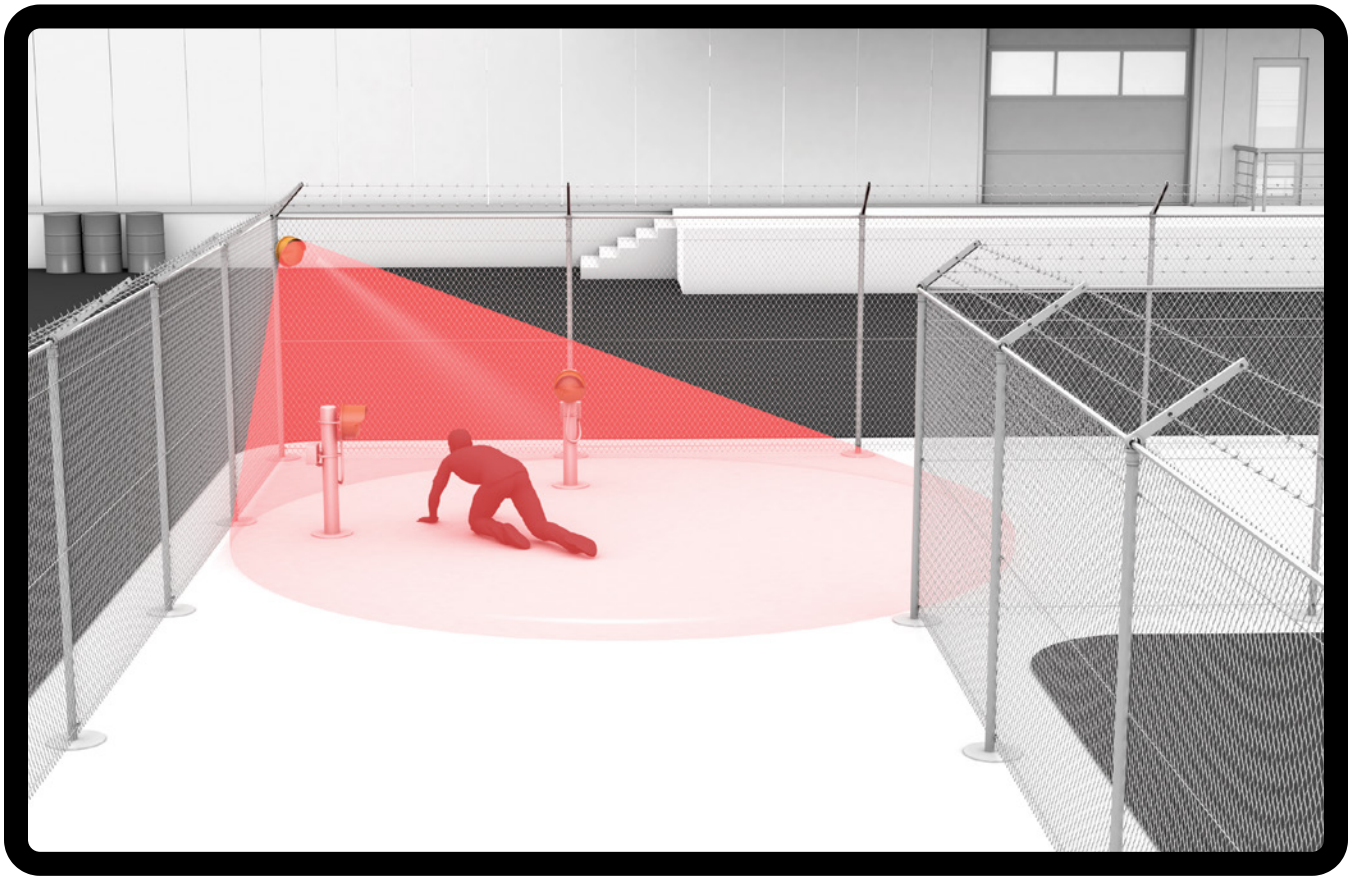
INTREPID™ Model MS30-POE-S

SHORT RANGE DIGITAL MICROWAVE TRANSCEIVER

SOUTHWEST MICROWAVE



INTREPID™ Model MS30-POE-S K-Band Short Range Digital Microwave Transceiver provides reliable three-dimensional protection in outdoor environments. Advanced Digital Signal Processing (DSP) algorithms successfully discriminate between intrusion attempts and environmental disturbances, mitigating risk of site compromise while preventing nuisance alarms.

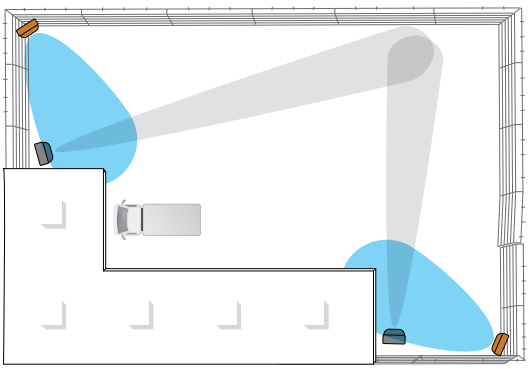
Model MS30-POE-S can seamlessly integrate with TCP/IP networks via a single Ethernet connection for power and communications. The transceiver features a secure embedded browser-based Installation Service Tool (IST) for convenient local control of sensor parameters from an authorized PC.

Operating at K-band frequency, Model MS30-POE-S is inherently less susceptible to outside interference from airport landing systems, aircraft or marine radar and other microwave intrusion systems. The motion sensor is outfitted with EMI/RFI shielding for maximum protection against physical tampering and harsh environmental conditions.

For optimum performance, it is best to use the MS30-POE-S Transceiver to protect specific assets or strategic areas, or as dead-zone coverage in conjunction with an outdoor perimeter detection system, such as Southwest Microwave's INTREPID™ MicroPoint™ Cable system, microwave links or transceivers.

KEY FEATURES

- UP TO 10M (32.8 FT) DETECTION RANGE
- WEB BROWSER-BASED SETUP
- ETHERNET-BASED STATUS REPORTING
- ADVANCED DIGITAL SIGNAL PROCESSING FOR HIGH PD / LOW NAR
- RESISTANT TO RADAR INTERFERENCE
- ADJUSTABLE DETECTION ANGLE FROM 30° TO 120°
- SUPPORTS INTEGRATION WITH IP / POE-ENABLED SECURITY DEVICES AND CAMERAS



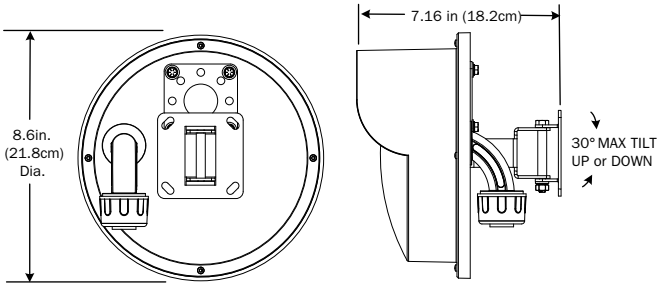
INTREPID™ Model MS30-POE-S

SPECIFICATIONS

OPERATION

Model MS30-POE-S Transceiver integrates both the transmitter and receiver within a single enclosure. A controlled pattern of microwave energy is emitted into the protected area establishing a reference level based on signals reflected within the detection zone. When an object in motion causes a shift in the frequency of the reflected signal, the Digital Signal Processor (DSP) analyzes the disruption, validates the intrusion and generates an alarm.

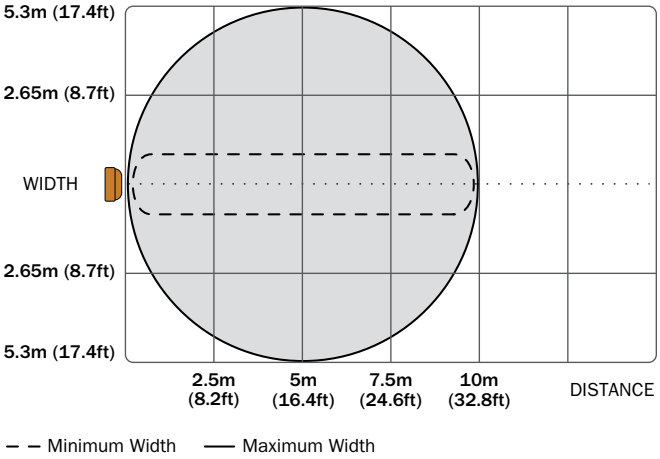
DIMENSIONS



PATTERN

Model MS30-POE-S provides a detection pattern with a maximum range of 10 m (32.8 ft) and a maximum width of 10.6 m (35 ft). Antenna beamwidth is 80°/34°, H/E. These distances are for a mounting height of .91 to 1.2 m (3-4 ft); other mounting heights will reduce the maximum range. Detection pattern is shown below.

HORIZONTAL FIELD OF VIEW



SPECIFICATIONS

Equipment Supplied: Model MS30-POE-S K-Band Motion Sensor, (1) mounting bracket, browser-based Installation Service Tool (IST).

Detection Range: 10 m (32.8 ft). Varies based on site reflectivity and settings.

Frequency: 24.125 GHz (USA).

Detection Width: 1.5 to 10.6 m (5 to 35 ft). Varies based on range and site reflectivity.

Target Size: 35 kg (77 lbs) human walking, running, hands and knees crawling or jumping. Prone crawling or rolling 35 kg (77 lbs) human or 30 cm metal sphere may be detected at shorter ranges with special site preparation.

Target Velocity: 0.06 m/sec to 8.0 m/sec (0.2 ft/sec to 26 ft/sec).

Probability of Detection: 0.99 minimum.

Adjustable Detection Angle: 30° to 120°

Output Power: +10dBm

Modulation: FSK

Input Power: POE: IEEE 802.3af, Class 1.

Ethernet: RJ-45 connector, 10/100 Base-T.

Security Protocol: TLS 1.2, supports X.509v3 Public Key Infrastructure Certificates.

Supported Browsers: Edge 40, Firefox 54, Chrome 59 or higher.

Alarm Monitoring: INTREPID™ POE system controller or third party HLI.

Tamper Switch: SPDT-Form C, 2 amps at 28 VDC. Switch reports in software.

Operating Environment: -40° F to +185° F (-40° C to +85° C). 0 to 100% relative humidity.

Weight / Shipping Weight: 2.04 kg (4.5 lbs) per unit / 4.5 kg (10 lbs) total.

Performance Monitoring: Status bar monitoring via ethernet and Wi-Fi. Wi-Fi disablement option.

Ordering Info: Model MS30-POE-S

INTREPID™ is a trademark of Southwest Microwave, Inc. Specifications subject to change without notice.

SOUTHWEST MICROWAVE

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