

DS9360 Ceiling Mount Panoramic TriTech PIR/Mircowave Detector

Prod. ID

DS9360



The ceiling mount panoramic DS9360 TriTech PIR/Microwave Detector uses several patented processing techniques to provide excellent catch performance with freedom from false alarm. Supervised microwave and PIR sections ensure that the detector is working properly. Field replaceable mirrored optics allows it to be mounted on ceilings from 8 ft. to 18 ft. (2.5 m to 6 m) in height.

■ Features

- Motion Analyzer II processing
- Microwave adaptive processing
- Self-test supervision systems
- Changeable Mirrors (Two Mirrors Provided)
- 360° x 60 ft. (18 m) diameter pattern
- 8 to 18 ft. (2.5 m to 6 m) mounting height

■ Basic Functions

Signal processing

Uses passive infrared and microwave technologies to provide an alarm condition when both fields of protection are simultaneously activated. Alarm signals must meet the signaling requirements of both technologies to activate an alarm. Adjustable PIR and microwave sensitivity.

PIR signal processing

Motion Analyzer II uses multiple thresholds and timing windows to analyze timing, amplitude, duration and polarity of signals to make an alarm decision. Will not alarm on extreme levels of thermal and illumination disturbances caused by heaters and air conditioners, hot and cold drafts, sunlight, lightning, and moving headlights. Two sensitivity settings are provided.

Microwave signal processing

Adaptive processing adjusts to background disturbances. This helps to reduce false alarms while maintaining catch performance.

Test features

Two high output tri-color alarm LEDs visible from any angle, and flash to indicate a trouble condition.

■ Certifications and Approvals

UL Standard

UL639, Intrusion Detection Units

Approvals

CE

FCC Compliant

■ Patents and Trademarks

4,660,024

4,764,755

5,077,548

5,208,567

5,262,783

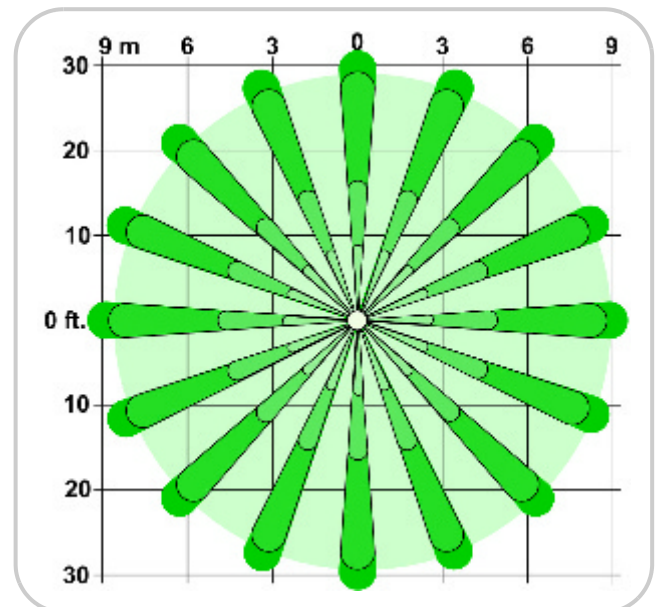
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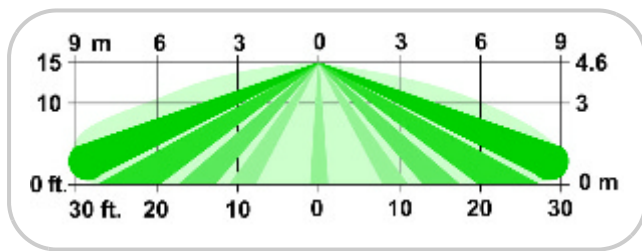
■ Planning

Note: One of each type of mirror is shipped with the product.

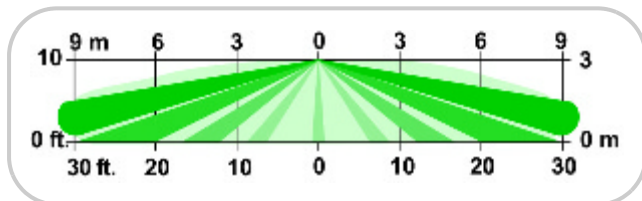
360° x 60 ft. (18 m) diameter

Top View





AR8-13 Side View



■ Hardware Options

AR8-13 Mirror



8 ft. (2.5 m) to 13 ft. (4 m) mounting height.
Is shipped in packages of 3.

AR13-18 Mirror



13 ft. (4 m) to 18 ft. (6 m) mounting height.
Is shipped in packages of 3.

■ Technical Specifications

Alarm Output	Form "C" reed relay rated at 3.0 watts, 125 mA @ 28 VDC for resistive loads.
Enclosure Design	
Design:	Modular high impact ABS electronic head and mounting/wiring base design with rugged polyethylene dome provides easy access to field setup switches.
Dimensions (HxD):	3.5 in. x 5.25 in. (8.5 cm x 13.3 cm)
Material:	High impact ABS plastic enclosure
Environmental Considerations	
Operating Temperature:	-40°F to +120°F (-40°C to +49°C) <i>For UL Certificated installations, +32°F to +120°F (0°C to +49°C)</i>
Mounting	
Height Range:	8 ft. to 18 ft. (2.5 m to 6 m) recommended
Location:	Mounts directly to ceiling or to standard 4 in. (10.2 cm) octagonal electrical box.
Power Requirements	6 to 15 VDC, 18 mA standby. 75 mA in alarm.
Radio Frequency Interference (RFI) immunity	No alarm or setup on critical frequencies in the range from 26 to 950 Megahertz at 50 v/m.
Tamper Output	Normally Closed (with cover in place) tamper switch. Contacts rated at 28 VDC, 125 mA maximum.