



DS9360 Panoramic TriTech Detector



- ▶ **Motion Analyzer II processing**
- ▶ **Microwave adaptive processing**
- ▶ **Self-test supervision systems**
- ▶ **Changeable mirrors (two mirrors provided)**
- ▶ **360° x 18 m (60 ft) diameter pattern**
- ▶ **2.5 m to 6 m (8 ft to 18 ft) mounting height**

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 2.5 m to 6 m (8 ft to 18 ft) in height.

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.

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

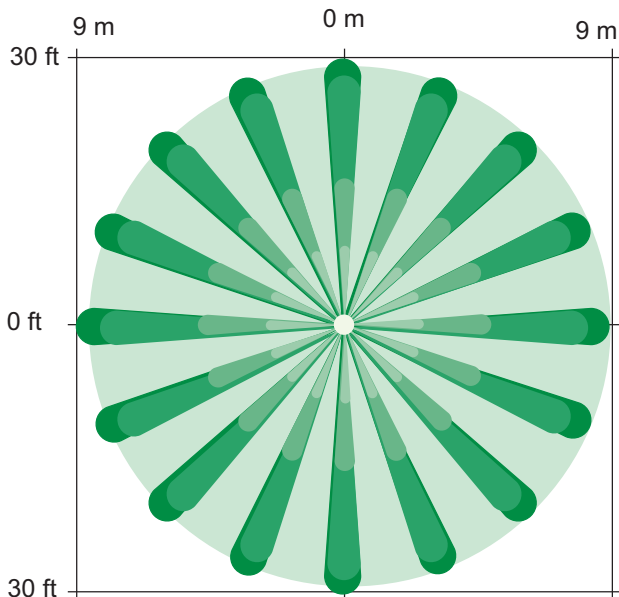
Motion Analyzer II uses multiple thresholds and timing windows to analyze timing, amplitude, duration and polarity of signals to make an alarm decision. Will not alarm on extreme levels of thermal and illumination disturbances caused by heaters and air conditioners, hot and cold drafts, sunlight, lightning,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

Certifications and Approvals

Region	Certification	
Europe	CE	1999/5/EC, EN50130-4: 1995 +A1: 1998 +A2: 2003, EN61000-4-2: 1995 +A1: 1998 +A2: 2001, EN61000-4-3: 2002 +A1: 2002, EN61000-4-4: 1995 +A1: 2001 +A2: 2001, EN61000-4-5: 1995 +A1: 2001, EN61000-4-6: 1996 +A1: 2001, EN61000-4-11: 1994 +A1: 2001, ETS 300 440: April 1996, ETS 300 683: April 1997, EN60950: Dec 1992
Poland	TECHOM	96/07 Klasy "C"
USA	UL	ANSR: Intrusion Detection Units (UL639)
	FCC	ESV9360
Brazil	ANATEL	0868-03-1855
Singapore	iDA	LPREQ-S0153-2004

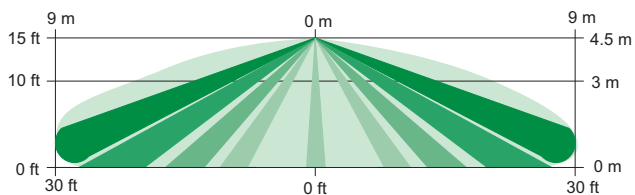
This detector has been designed to also comply with the requirements of:
 Europe Complies with EN50131-1, Grade 2

Installation/Configuration Notes



Top View

One of each type of mirror is shipped with the product.
 360° x 18 m (60 ft) diameter



AR13-18 Side View

One of each type of mirror is shipped with the product.
 360° x 18 m (60 ft) diameter

Technical Specifications

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:	8.5 cm x 13.3 cm (3.5 in. x 5.25 in.)
Material:	High impact ABS plastic enclosure

Environmental Considerations

Operating Temperature: -40°C to +49°C (-40°F to +120°F)
 For UL Certificated installations, 0°C to +49°C
 (+32°F to +120°F)

Radio Frequency Interference (RFI) Immunity: No alarm or setup on critical frequencies in the range from 26 MHz to 950 MHz at 50 V/m.

Complies with Environmental Class II (EN50130-5)

Mounting

Height Range: 2.5 m to 6 m (8 ft to 18 ft) recommended
 Location: Mounts directly to ceiling or to standard 10.2 cm (4 in.) octagonal electrical box.

Outputs

Alarm: Form C reed relay rated at 3.0W, 125 mA at 28VDC for resistive loads.
 Tamper: Normally-closed (with cover in place) tamper switch. Contacts rated at 28 VDC, 125 mA maximum.

Power Requirements

Current: 18 mA standby; 75 mA in alarm
 Voltage: 6 VDC to 15 VDC

Trademarks

TriTech® is a registered trademark of Bosch Security Systems, Inc. in the United States.

Ordering Information

DS9360 Panoramic TriTech Detector	DS9360
Provides two movable mirrors, 360° x 18 m (60 ft) diameter coverage, and 2.5 m to 6 m (8 ft to 18 ft) mounting height.	

Accessories

AR13-18-3 Optical Module	AR13-18-3
Designed for 4 m (13 ft) to 6 m (18 ft) mounting height. Shipped in packages of three.	



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