

# DS9360 Panoramic TriTech Detector

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**BOSCH**  
Invented for life



- ▶ Motion Analyzer II processing
- ▶ Microwave adaptive processing
- ▶ Self-test supervision systems
- ▶ Changeable mirrors (two mirrors provided)
- ▶ 360° x 18 m (60 ft) diameter pattern

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.

## 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

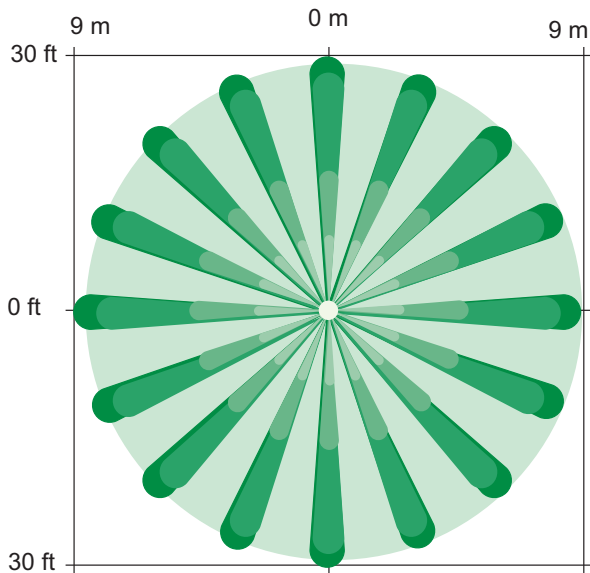
This detector has been designed to also comply with the requirements of:

Europe Complies with EN50131-1, Grade 2

Region	Certification	
Europe	CE	2004/108/EC: EMC Directive and 2006/95/EC: Low-Voltage Directive; 1999/5/EC Radio equipment and Telecommunications Terminal Equipment (R&TTE); 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment [DS9360]
	EN50131	EN50131-2-4, Grade 2
USA	UL	ANSR: Intrusion Detection Units (UL639)

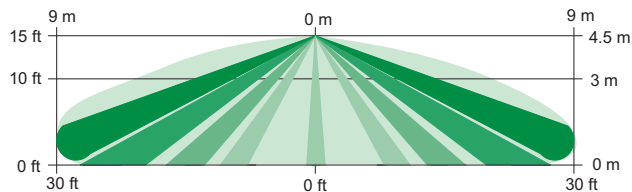
Region	Certification	
	FCC	ESV9360
France	AFNOR	2820200006A0
Brazil	ANATEL	0868-03-1855
Singapore	iDA	LPREQ-S0153-2004

**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 Certified 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 3.0 W, 125 mA at 28 VDC 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**

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.

Order number **DS9360**

**Accessories**

**AR13-18-3 Optical Module**

Designed for 4 m (13 ft) to 6 m (18 ft) mounting height. Shipped in packages of three.

Order number **AR13-18-3**

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