

# DS9370/DS9371 Series Panoramic TriTech Ceiling Mount Detectors

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**BOSCH**  
Invented for life



- ▶ Fully adjustable optics for coverage integrity and customization
- ▶ Hinged chassis and base plate for easy installation
- ▶ High efficiency LED and light pipe system for easy walk testing
- ▶ First Step processing, or FSP

Each DS9370 Series TriTech PIR/Microwave Motion Detector model is panoramic and uses several patented processing techniques to provide excellent catch performance with freedom from false alarms. Each model can be mounted on ceilings as high as 7.6 m (25 ft). With three separate PIR sections that are fully adjustable, the DS9370 Series provides coverage integrity at all mounting heights, plus the ability to customize the coverage for specific areas.

## 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.

### First Step Processing

FSP allows virtually instant response to human targets without sacrificing false alarm immunity to other sources. By adjusting its sensitivity based upon signal amplitude, polarity, slope and timing, FSP eliminates the need for the installer to select the sensitivity level

for the application. Each sensor is processed individually and both must agree there is an alarm before the alarm relay is activated.

### Microwave Signal Processing

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

### Microwave Supervision

Patented fully supervised microwave provides single technology coverage in the event the microwave subsystem fails.

### Test Features

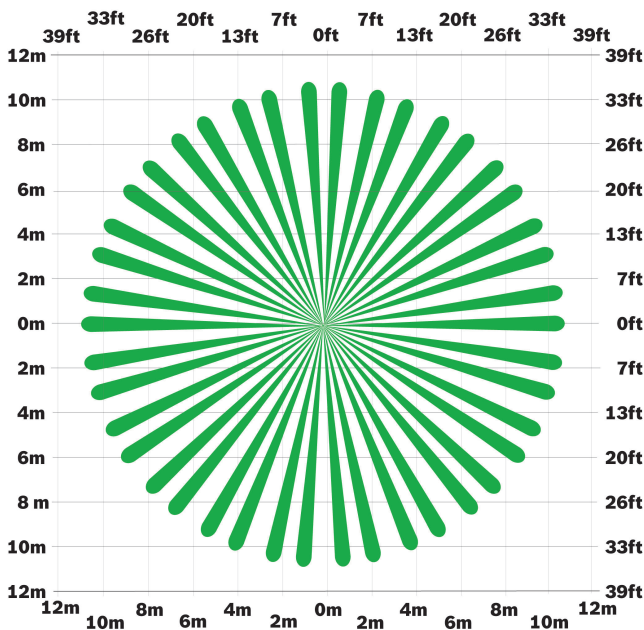
- High efficiency LED and light-pipe system provide walk test indication that is easily viewable from any angle and at any mounting height.
- Alarm memory feature allows detector to latch the alarm LED to aid in response.
- Remote LED walk-test control allows the LED to be enabled or disabled using a switched input without accessing the detector.

**Certifications and approvals**

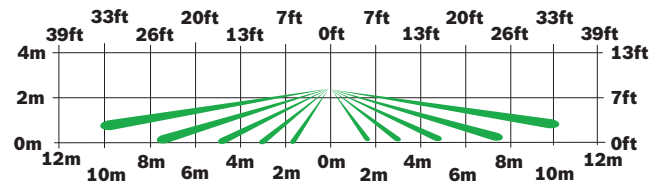
Australia		DS9370: AUS C-tick
China	CCC	2004031901000038
Europe		Complies with EN50131-1, Grade 2

Region	Certification	
Australia	RCM	DS9370
Europe	CE	EMC, LVD, R&TTE, RoHS [DS9370, DS9371, DS9370-C]
	EN50131	
Belgium	INCERT	B-509-0013 (DS9370 only)
	INCERT	B-509-0013/b (DS9370-BEL only)
USA	UL	DS9370: ANSR: Intrusion Detection Units (UL639), ANSR7: Intrusion Detection Units Certified for Canada (cULus) DS9370
	FCC	ESV9370
Canada	IC	1249A-12073
France	AFNOR	28002000101A0
China	CCC	2015031901000325
Sweden	INTYG	15-473 Alarm Class 1/2, Environmental Class II (Larmklass 1/2 miljöklass II)
Brazil	ANATEL	Certificado Anatel 0871-03-1855 [DS9370 & DS9371]
Singapore	iDA	LPREQ-S0154-2004

**Installation/configuration notes**



Top View



Side View

**Mounting Considerations**

The mounting height range is from 2.4 m to 7.6 m (8 ft to 25 ft). The recommended mounting height range is from 3.7 m to 7.6 m (12 ft to 25 ft). The coverage area can be set between 9.1 m and 21.3 m (30 ft and 70 ft). If mounted at 2.4 m (8 ft) high, the coverage area can be set between 6.1 m and 12.2 m (20 ft and 40 ft). If mounted at 3 m (10 ft) high, the coverage area can be set between 6.1 m and 15.2 m (20 ft and 50 ft).

These detectors can be mounted directly on the ceiling or on a standard 9 cm (3.5 in.) rectangular electrical box.

The maximum range of the detector depends on the mounting height and the vertical adjustment of the PIR coverage pattern. In areas where part of the area needs a targeted coverage, the optical modules can be adjusted for the correct coverage.

A masking kit containing two 120° and two 90° masks is included to allow masking unwanted areas. Apply the masks to the outside of the detector. With the supplied masks, you can mask 90°, 120°, 180°, 210°, 240°, or 330°.

**Coverage Information**

Provides 360° x 21 m (70 ft) diameter coverage when the detector is mounted at 3.7 m to 7.6 m (12 ft to 25 ft).

Provides 360° x 15 m (50 ft) diameter coverage when the detector is mounted at 3 m (10 ft). 12 m (40 ft) when mounted at 2.4 m (8 ft).

Pattern consists of 69 zones in 21 barriers. Each barrier is 11 m (35 ft) long and 1.5 m (5 ft) wide at 11 m (35 ft). The barriers are grouped into three groups of seven barriers each. Each group has vertical adjustment for customized coverage.

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**Technical specifications**

**Enclosure Design**

Design	Modular chassis and hinged mounting base design provide easy access to field setup switches and wiring.
Dimensions	8.9 cm x 17.8 cm (3.5 in. X 7 in.)
Material	High impact ABS plastic enclosure

## Environmental Considerations

Operating Temperature	-40°C to +49°C (-40°F to +120°F) <i>For UL Certificated installations, 0°C to +49°C (+32°F to +120°F)</i>
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.

## Mounting

Height Range	3 m to 7.6 m (8 ft to 25 ft) recommended
Location	Mounts directly to ceiling or to standard 10.2 cm (3.5 in.) octagonal electrical box.

## Outputs

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

## Power Requirements

Current	19 mA standby, 39 mA in alarm.
Voltage	9 VDC to 15 VDC

## Ordering information

### DS9370 Panoramic TriTech Ceiling Mount Detector

Provides PIR and microwave, 360° x 21 m (70 ft) diameter coverage and 2.4 m to 7.6 m (8 ft to 25 ft) mounting height. 10.525 GHz. White.

Order number **DS9370**

### DS9370-C Panoramic TriTech Ceiling Mount Detector

Provides PIR and microwave, 360° x 21 m (70 ft) diameter coverage and 2.4 m to 7.6 m (8 ft to 25 ft) mounting height. 10.588 GHz. White.

Order number **DS9370-C**

### DS9370-BEL Panoramic TriTech Ceiling Mount Detector

Provides PIR and microwave, 360° x 21 m (70 ft) diameter coverage and 2.4 m to 7.6 m (8 ft to 25 ft) mounting height. For use in Belgium. 10.525 GHz. White.

Order number **DS9370-BEL**

### DS9370-CHI Panoramic TriTech Ceiling Mount Detector

For use in China. Provides first step processing, 360° x 21 m (70 ft) diameter coverage, and up to 7.6 m (25 ft) mounting height. 10.525 GHz. White.

Order number **DS9370-CHI**

### DS9371 Panoramic TriTech Ceiling Mount Detector

Provides PIR and microwave, 360° x 21 m (70 ft) diameter coverage and 2.4 m to 7.6 m (8 ft to 25 ft) mounting height. 10.525 GHz. Black enclosure and lenses.

Order number **DS9371**

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