

**BOSCH**

Invented for life

DS9370 Series Panoramic TriTech Detector



- ▶ Up to 7.6 m (25 ft) mounting height
- ▶ 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 (FSP)
- ▶ Microwave adaptive processing
- ▶ 360° x 21 m (70 ft) diameter pattern

Each DS9370 Series TriTech® PIR/Microwave 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.

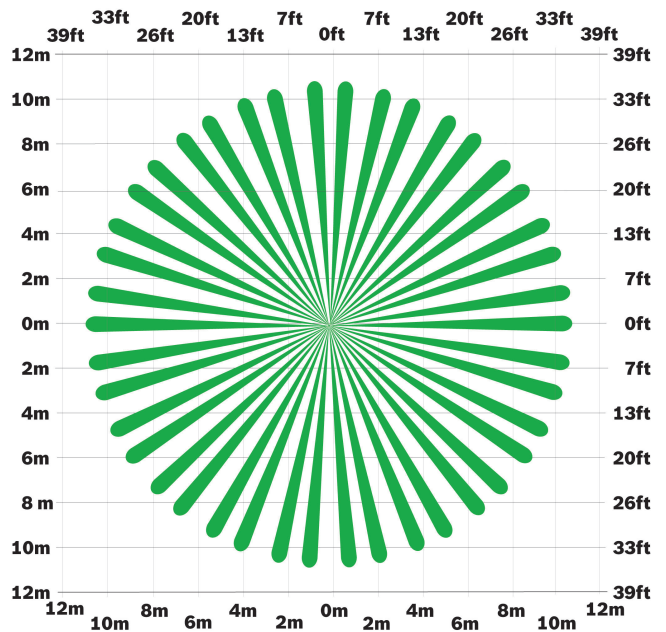
Test Features

- 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.

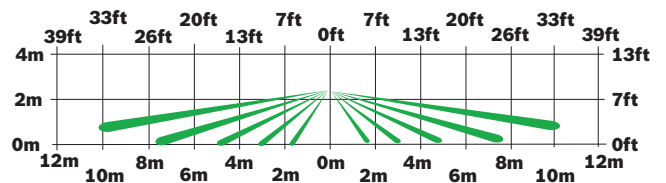
Certifications and Approvals

Region	Certification	
Europe	CE	DS9370 and DS9370-C: 89/336/EEC, EN55022: 1998 +A1: 2000 +A2: 2003, EN50130-4: 1996 +A1: 1998 +A2: 2003, EN61000-4-2: 1995 +A1: 1998 +A2: 2001, EN61000-4-3: 2002 +A1: 2003, EN61000-4-4: 1995 +A1: 2000 +A2: 2001, EN61000-4-5: 1995 +A1: 2001, EN61000-4-6: 1996 +A1: 2001 +A2: 2001, EN61000-4-11: 1994 +A1: 2001, EN60950-1: 2001 +A11: 2004, EN 300 440-2 V1.1.1: 2001-09, EN 300 489 Parts-1 and -3 V1.2.1: 2000-08
Belgium	INCERT	B-509-0013 (DS9370 only) B-509-0013/b (DS9370-BEL only)
USA	UL	DS9370: ANSR: Intrusion Detection Units (UL639), ANSR7: Intrusion Detection Units Certified for Canada (cULus)
	FCC	ESV9370
Canada	IC	1249A-12073
China	CCC	DS9370-CHI: 2009031901000550
Brazil	ANATEL	0871-03-1855
Singapore	iDA	LPREQ-S0154-2004
Australia		DS9370: AUS C-tick
China	CCC	2004031901000038
Europe		Complies with EN50131-1, Grade 2

Installation/Configuration Notes



Top View



Side View

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.

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.
DS9370-C:	Complies with Environmental Class II (EN50130-5)

Microwave Frequency

DS9370 and DS9370-BEL	10.525 GHz
DS9370-C	10.588 GHz

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

Trademarks

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

Ordering Information

DS9370 Ceiling Mount Panoramic Detector (10.525 GHz)	DS9370
Operates at 10.525 GHz. Provides first step processing, 360° x 21 m (70 ft) diameter coverage, and up to 7.6 m (25 ft) mounting height.	
DS9370-C Ceiling Mount Panoramic Detector (10.588 GHz)	DS9370-C
Operates at 10.588 GHz. Provides first step processing, 360° x 21 m (70 ft) diameter coverage, and up to 7.6 m (25 ft) mounting height.	
DS9370-BEL Ceiling Mount Panoramic Detector (10.525 GHz)	DS9370-BEL
Operates at 10.525 GHz. For use in Belgium. Provides first step processing, 360° x 21 m (70 ft) diameter coverage, and up to 7.6 m (25 ft) mounting height.	
DS9370-CHI Ceiling Mount Panoramic Detector	DS9370-CHI
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.	

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