


BOSCH

Invented for life

DS939 Panoramic 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)
- ▶ 360° x 21 m (70 ft) diameter pattern

The ceiling mount DS939 PIR Detector provides a 21 m (70 ft) panoramic coverage pattern and can be used on ceilings as high as 7.6 m (25 ft). With three separate PIR sections that are fully adjustable, the DS939 provides coverage integrity at all mounting heights, plus the ability to customize the coverage for specific areas. The DS939 uses several patented processing techniques to provide excellent catch performance with freedom from false alarms.

Functions

Signal Processing

Uses passive infrared technologies to provide an alarm condition when the field of protection is activated. Alarm signals must meet the signaling requirements to activate an alarm.

First Step Processing

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.

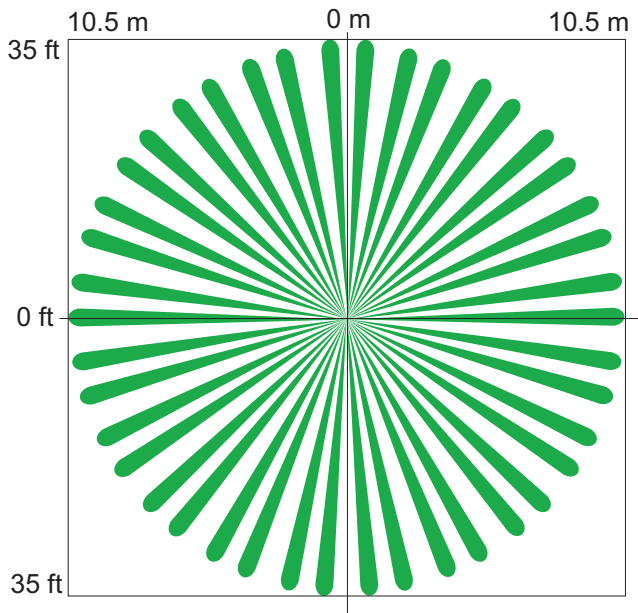
Test Features

- 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.

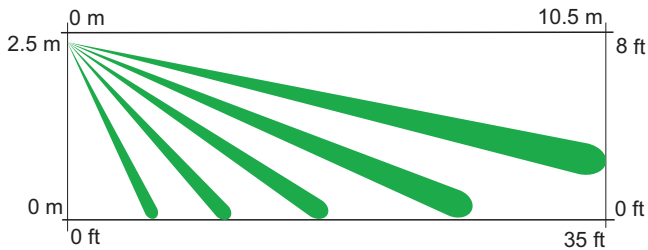
Certifications and Approvals

Region	Certification	
Europe	CE	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
USA	UL	ANSR: Intrusion Detection Units (UL639), ANSR7: Intrusion Detection Units Certified for Canada (cULus)
Europe		Complies with EN50131-1, Grade 2

Installation/Configuration Notes



Top View



Side View

Coverage Information

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

Coverage is 15 m (50 ft) diameter when the detector is mounted at 3 m (10 ft).

Coverage is 12 m (40 ft) when the detector is 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

Properties: 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.)

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)

Sensitivity: Low/High gain settings

Complies with Environmental Class II (EN50130-5)

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 (4 in.) octagonal electrical box.

Internal Pointability: Coverage is adjustable $\pm 10^\circ$ horizontally, $+2^\circ$ to -18° vertically.

Outputs

Alarm Relay: Silent-operating form C relay. Contacts rated 125 mA, 28 VDC, 3 W maximum for DC resistive loads.

Tamper: Normally-closed (with cover in place) tamper switch. A wall (base) tamper is included. Contacts rated at 28 VDC, 125 mA, 3 W maximum.

Power Requirements

Current: 12 mA standby; 39 mA in alarm with LEDs enabled

Voltage: 9 VDC to 15 VDC

Ordering Information

DS939 Panoramic Detector

Provides a 21 m (70 ft) panoramic coverage pattern and can be used on ceilings as high as 7.6 m (25 ft).

DS939

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: +31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3453
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com

Represented by