

# DS940 Series PIR Intrusion Detectors

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**BOSCH**  
Invented for life



- ▶ First Step Processing (FSP)
- ▶ Easy to install with flexible mounting options
- ▶ Small unobtrusive design
- ▶ Broad coverage
- ▶ Bracket mounting option

The DS940 series detectors use grooves-in Fresnel lenses to provide superior catch performance. The ease of installation and flexible mounting options provide state-of-the-art detection every time.

## Functions

### Signal 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

Externally visible alarm LED may be disabled after installation.

### Draft and Insect Immunity

The sealed optical chamber provides immunity to drafts and insects.

## Certifications and approvals

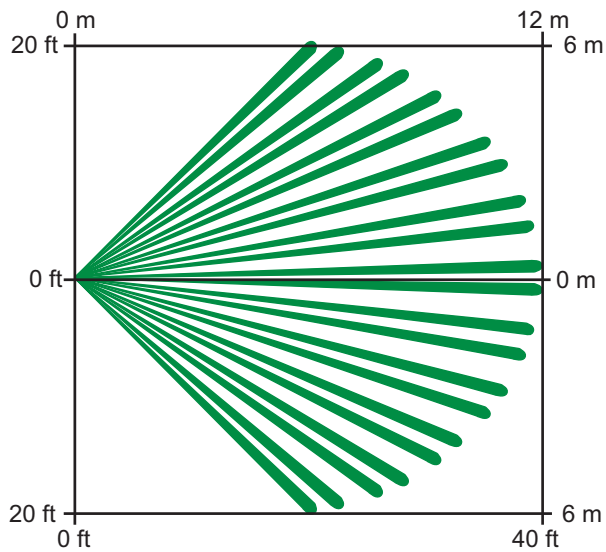
These detectors have also been designed to meet the requirements of:

France AFNOR DS940T: NF, A2P

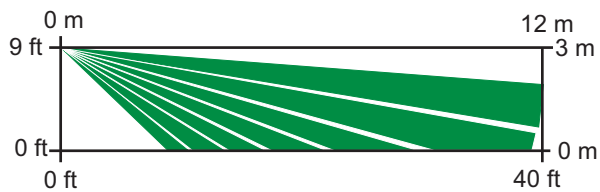
Europe DS940T complies with EN50131-1 grade 2

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
	CE 2004/108/EC; EN 50130-4:1996 +A1:1998 +A2:2003; EN60950-1:2006
USA	UL DS940, DS940T: ANSR: Intrusion Detection Units (UL639)
China	CCC DS940T-CHI: 2009031901000547

## Installation/configuration notes



**Top View**  
Standard Broad Coverage: 12 m x 12 m (40 ft x 40 ft)



**Side View**  
Standard Broad Coverage: 12 m x 12 m (40 ft x 40 ft)

## Technical specifications

### Enclosure Design

Dimensions:	8.5 cm x 6.9 cm x 4.8 cm (3.35 in. X 2.75 in. X 1.9 in.)
Material:	High impact ABS plastic enclosure

### Environmental Considerations

Operating Temperature:	-29°C to +49°C (-20°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.
DS940T:	Complies with Environmental Class II (EN50130-5)

### Mounting

Height Range:	2.25 m to 2.7 m (7.5 ft to 9 ft) recommended
Location:	Surface or corner

## Outputs

Alarm	Normally-closed reed relay with contacts rated at 125 mA at 28 VDC, maximum; 18 VAC, maximum resistive load only. The relay opens on an alarm condition.
Tamper:	DS940T: Cover activated normally-closed tamper switch with contacts rated 125 mA at 28 VDC, maximum.

## Power Requirements

Current Draw:	17 mA at 12 VDC
Voltage:	9 VDC to 15 VDC,

## Ordering information

### DS940 Wall Mount PIR Detector

Provides first step processing, broad coverage, and draft and insect immunity.

Order number **DS940**

### DS940T Wall Mount PIR Detector

Includes a tamper switch. Provides first step processing, broad coverage, and draft and insect immunity.

Order number **DS940T**

### DS940T-CHI Wall Mount PIR Detector

For use in China. Includes a tamper switch. Provides first step processing, broad coverage, and draft and insect immunity.

Order number **DS940T-CHI**

## Accessories

### Swiveling B335-3 low-profile mount

Swiveling, low-profile, plastic mount for wall mounting. The vertical swivel range is +10° to -20°, while the horizontal swivel range is ±25°. Available in triple packs.

Order number **B335-3**

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