

# DS940P and DS940PT Series PIR Detectors

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ First Step processing (FSP)
- ▶ Easy to install with flexible mounting options
- ▶ Small unobtrusive design
- ▶ Pet and animal immunity
- ▶ Broad coverage

The DS940P Series includes the DS940P and DS940PT. Each detector uses 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.

### Pet and Animal Immunity

The detector is able to distinguish between signals caused by humans and signals caused by one or two animals with a combined total weight of 13.6 kg (30 lb). This provides immunity to false alarms while maintaining proper catch performance of human targets.

### 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.

### Temperature Compensation

Automatically monitors the ambient temperature and adjusts the signal processing to maintain proper catch performance at critical temperature ranges.

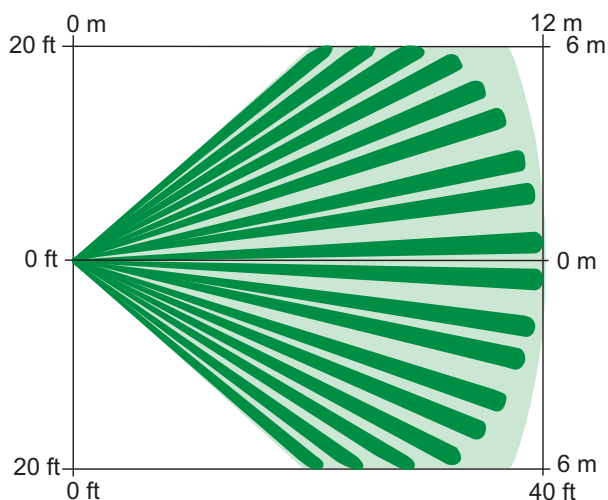
## Certifications and approvals

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

France	AFNOR	DS940PT: NF, A2P
Europe	DS940PT complies with EN50131-1 grade 2	

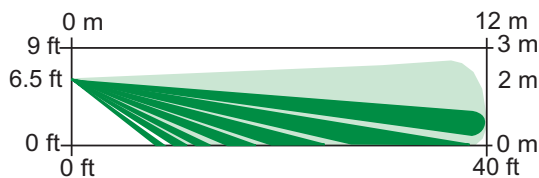
Region	Certification	
Europe	CE	89/336/EEC, EN55022: 1998 +A1: 2000 +A2: 2003, EN50130-4: 1996 +A1: 1998 +A2: 2003, EN61000-4-2: 1995 +A1: 1998 +A2: 2001, EN61000-4-3: 2002 +A1: 2003, EN61000-4-4: 1995 +A1: 2000 +A2: 2001, EN61000-4-5: 1995 +A1: 2001, EN61000-4-6: 1996 +A1: 2001 +A2: 2001, EN61000-4-11: 1994 +A1: 2001, EN60950-1: 2001 +A11: 2004
	CE	2004/108/EC; EN 50130-4:1996 +A1:1998 +A2:2003; EN60950-1:2006
Belgium	INCERT	B-509-0009/a
USA	UL	ANSR: Intrusion Detection Units (UL639)

### Installation/configuration notes



#### Top View

Broad Coverage 12 m x 12 m (40 ft x 40 ft)



#### Side View

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.
DS940PT:	Complies with Environmental Class II (EN50130-5)

### Mounting

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

### 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:	DS940PT: 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

#### DS940P Detector

Provides first step processing, pet and animal immunity, broad coverage, bracket mounting option, draft and insect immunity, and temperature compensation.

Order number **DS940P**

#### DS940PT Detector

Includes a tamper switch. Provides first step processing, pet and animal immunity, broad coverage, bracket mounting option, draft and insect immunity, and temperature compensation.

Order number **DS940PT**

### 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**

**Represented by:**

**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  
5617 BA 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  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

**China:**

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

**America Latina:**

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
latam.boschsecurity@bosch.com  
www.boschsecurity.com