BOSCH
Invented for life

DS940P and DS940PT Series PIR Detectors

- ▶ **First Step processing (FSP)**
- ▶ **Easy to install with flexible mounting options**
- ▶ **Small unobtrusive design**
- ▶ **Pet and animal immunity**
- ▶ **Broad coverage**
- ▶ **Bracket mounting option**
- ▶ **Draft and insect immunity**
- ▶ **Temperature compensation**

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.
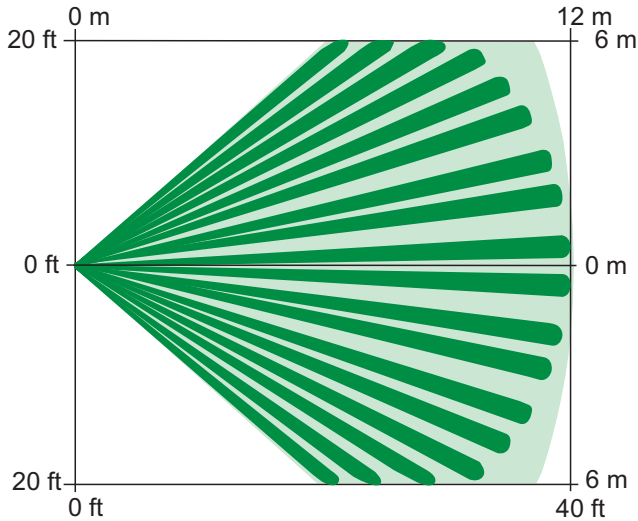
Certifications and Approvals

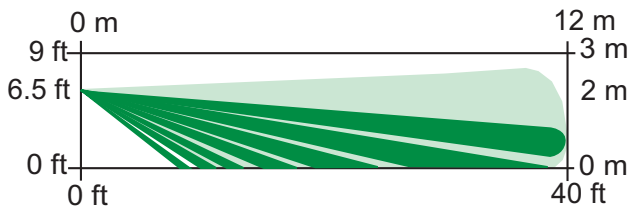| Region	Certification	
Europe	CE	89/336/EEC, EN55022: 1998 +A1: 2000 +A2: 2003, EN50130-4: 1996 +A1: 1998 +A2: 2003, EN61000-4-2: 1995 +A1: 1998 +A2: 2001, EN61000-4-3: 2002 +A1: 2003, EN61000-4-4: 1995 +A1: 2000 +A2: 2001, EN61000-4-5: 1995 +A1: 2001, EN61000-4-6: 1996 +A1: 2001 +A2: 2001, EN61000-4-11:1994 +A1: 2001, EN60950-1: 2001 +A11: 2004
		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)

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

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

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) *For UL Certificated installations, 0°C to +49°C (+32°F to +120°F)*
Radio Frequency Interference (RFI) Immunity:	No alarm or setup on critical requencies 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.	**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.	**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.	**B335-3**