



DS940 Series PIR Intrusion Detectors



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

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.

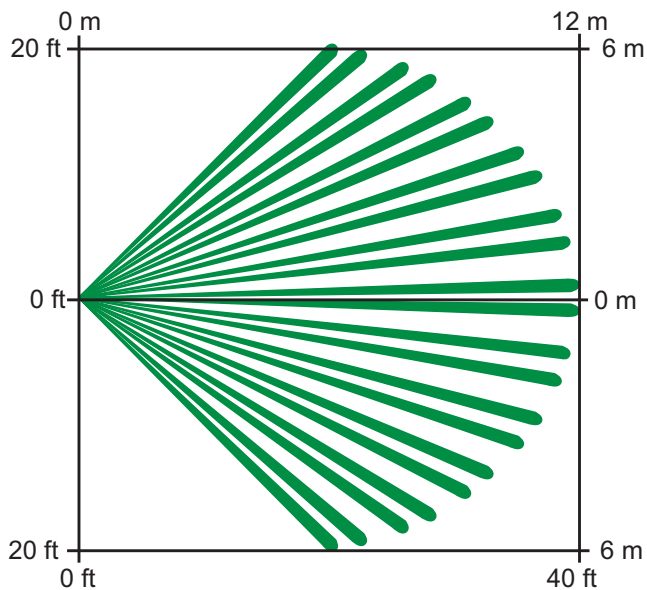
Certifications and Approvals

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
Belgium	INCERT	DS940T: B-509-0009/a
China	CCC	DS940T-CHI: 2004031901000035

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

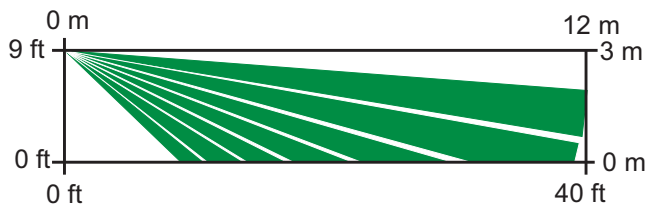
France	AFNOR	DS940T: NF, A2P
Europe		DS940T complies with EN50131-1 grade 2

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)
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 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

DS940

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

DS940T Wall Mount PIR Detector

DS940T

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

DS940T-CHI Wall Mount PIR Detector

DS940T-CHI

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

Accessories

Swiveling B335-3 low-profile mount

B335-3

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.

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