

# DS940P and DS940PT Series PIR Detectors



## Security Systems



- 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 1 or 2 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

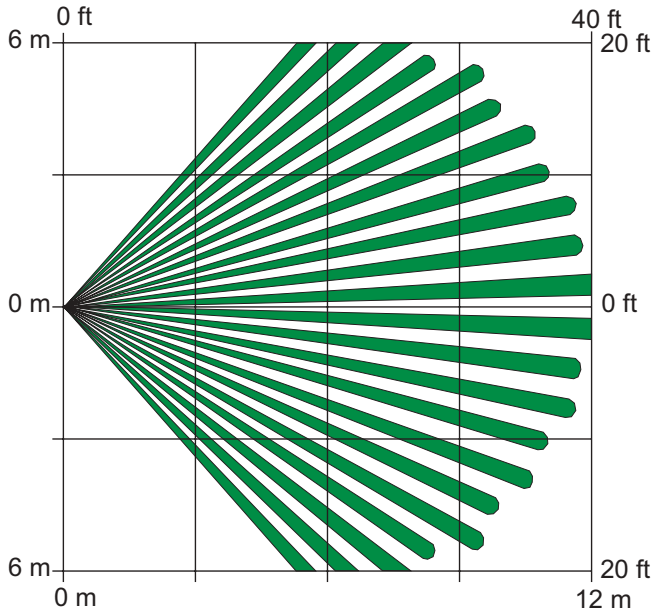
Automatically monitors the ambient temperature and adjusts the signal processing to maintain proper catch performance at critical temperature ranges.

### Certifications and Approvals

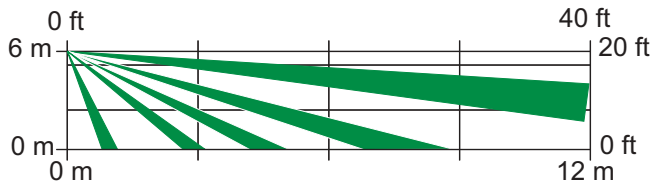
Listings and Approvals: UL639, Intrusion Detection Units  
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**Installation/Configuration Notes**

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



*Side View*



**Technical Specifications**

**Radio Frequency Interference (RFI)** No alarm or setup on critical frequencies in the range from 26 MHz to 950 MHz at 50 V/m.

**Immunity:**

**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.) (HxWxD):

**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)*

**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	DS940P
DS940PT Detector with Tamper Switch	DS940PT

**Hardware Accessories**

B335-3 Low Profile Mount Bracket	B335-3
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