



DS778 Long Range PIR Detector



- ▶ **Motion Analyzer II processing**
- ▶ **Pointable mirrored optics**
- ▶ **Q-map signal processing**
- ▶ **Long range coverage**
- ▶ **Four mounting options**

The wall mount, long range DS778 PIR Detector uses Motion Analyzer II signal processing to reduce false alarms. To aid in walk testing, the DS778 features a high efficiency alarm LED that is visible throughout the coverage pattern. This allows one installer to install and test the detector. The detector's internally pointable optics and mounting options provide installation flexibility.

Functions

Signal Processing

Motion Analyzer II uses multiple thresholds and timing windows to analyze timing, amplitude, duration, and polarity of signals to make an alarm decision. Will not alarm on extreme levels of thermal and illumination disturbances caused by heaters and air conditioners, hot and cold drafts, sunlight, lightning, and moving headlights. Two sensitivity settings are provided.

Test Features

The high efficiency alarm LED can be seen throughout the walk test area. Internal noise voltage test pins provide precise pattern location and background disturbance evaluation using a standard analog meter.

Insect and Draft 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 2004/108/EC; EN 50130-4:1996 +A1:1998 +A2:2003; EN 60950-1:2006
Poland	CNBOP
USA	UL ANSR: Intrusion Detection Units (UL639)
Europe	Complies with EN50131-1, Grade 2

Installation/Configuration Notes



Top View

Long Range Coverage 60 m x 4.5 m (200 ft x 15 ft)



Side View

Long Range Coverage 60 m x 4.5 m (200 ft x 15 ft)

Technical Specifications

Enclosure Design

Dimensions: 14.6 cm x 9.5 cm x 6.35 cm (5.75 in. x 3.75 in. x 2.5 in.)

Material: High impact ABS plastic enclosure

Environmental Considerations

Operating Temperature: -40°C to +49°C (-40°F to +120°F)
 For UL Listed Applications, 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.

Complies with Environmental Class II (EN50130-5)

Mounting

Height Range: Recommended 2 m to 2.6 m (6.5 ft to 8.5 ft)

Internal Pointability: Coverage is adjustable ±10° horizontally, +2° to -18° vertically.

Outputs

Alarm: Form C contacts rated at 3.0W, 125 mA at 28VDC for resistive loads.

Tamper: Normally-closed. Contacts rated at 28 VDC, 125 mA maximum.

Power Requirements

Current Draw: 18 mA at 12 VDC

Voltage: 6 VDC to 15 VDC

Ordering Information

DS778 Long Range PIR Detector **DS778**
 Provides Motion Analyzer II processing, movable mirrors, Q-map signal processing, long range coverage, and four mounting options.

Accessories

B328 Gimbal-mount Bracket **B328**
 Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.

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.

B338 Universal Ceiling-mount Bracket **B338**
 Swiveling plastic mount for ceiling mounting. The vertical swivel range is +7° to -16°, while the horizontal swivel range is ±45°.

TC6000 Test Cord **TC6000**
 Test cord for connecting a compatible detector's test pins to a voltmeter. It is 4.6 m (15 ft) long.

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