DS778 Long Range PIR Detector

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Invented for life

▶ 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

Europe	Complies with EN50131-1, Grade 2

Region	Certification	
Europe	CE	EMC, LVD, RoHS [DS778]
USA	UL	[DS778]
	UL	UL 639 - Standard for Intrusion Detection Units

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)

Parts included

Quantity	Component
1	Detector
1	Hardware pack
1	Installation manual

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 3.0 W, 125 mA at 28 VDC 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
Provides PIR 60 m x 4.5 m (200 ft x 15 ft) coverage.
Order number **DS778**

Accessories

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

B335-3 Swiveling low-profile mount
Swiveling, low-profile, universal bracket for wall mounting. The vertical swivel range is +10° to -20°, while the horizontal swivel range is ±25°.
Order number **B335-3**

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

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