



BOSCH
Invented for life

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

UL Standard	UL639, Intrusion Detection Units
Approval	CE
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 $\pm 10^\circ$ horizontally, $+2^\circ$ 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	DS778
Provides Motion Analyzer II processing, movable mirrors, Q-map signal processing, long range coverage, and four mounting options.	

Hardware Accessories

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

B335-3 Low-profile Swivel-mount Bracket	B335-3
Plastic, swivel, low profile bracket for walls. The vertical pivot range is $+10^\circ$ to -20° ; the horizontal pivot range is $\pm 25^\circ$. Shipped in packages of three.	

B338 Universal Ceiling Bracket	B338
Plastic swivel bracket for ceilings. The vertical pivot range is $+7^\circ$ to -16° ; the horizontal pivot range is $\pm 45^\circ$.	

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.	

Americas:
 Bosch Security Systems
 130 Perinton Parkway
 Fairport, New York, 14450, USA
 Phone: +1 585 223 4060
 Fax: +1 800 289 0096
 security.sales@us.bosch.com
 www.boschsecurity.us

Europe, Middle East, Africa:
 Bosch Security Systems B.V.
 P.O. Box 80002
 5600 JB Eindhoven, The Netherlands
 Phone: +31 40 27 83955
 Fax: +31 40 27 86668
 emea.securitysystems@bosch.com
 www.boschsecurity.com

Asia-Pacific:
 Bosch Security Systems Pte Ltd
 38C Jalan Pemimpin
 Singapore 577180
 Phone: +65 6319 3450
 Fax: +65 6319 3499
 apr.securitysystems@bosch.com
 www.boschsecurity.com

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