

# **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**

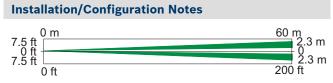
The high efficiency alarm LED can be seen throughout the walk test area. Internal noise voltage test pins provide precise pattern location and background disturbance evaluation using a standard analog meter.

#### **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	



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 Tempera- -40°C to +49°C (-40°F to +120°F)

For UL Listed Applications, 0°C to + 49°C (+32°F to ture:

Radio Frequency In- No alarm or setup on critical frequencies in the range

terference (RFI) Im- from 26 MHz to 950 MHz at 50 V/m.

munity:

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**

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

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

mum.

### **Power Requirements**

**Current Draw:** 18 mA at 12 VDC Voltage: 6 VDC to 15 VDC

## **Ordering Information**

**DS778 Long Range PIR Detector** 

**DS778** 

**B328** 

**B338** 

Provides Motion Analyzer II processing, movable mirrors, Q-map signal processing, long range coverage, and four mounting options.

#### Accessories

**B328 Gimbal-mount Bracket** 

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** 

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.

Bosch Security Systems, Inc. 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096 Fax: +1 585 223 9180 security.sales@us.bosch.com www.boschsecurity.us

Europe, Middle East, Africa:

Bosch Security Systems B.V. P.O. Box 80002 F.O. BOX 80002 5600 JB Eindhoven, The Netherlands Phone: + 31 40 2577 284 Fax: +31 40 2577 330 emea.securitysystems@bosch.com www.boschsecurity.com

Represented by

Asia-Pacific: Re Robert Bosch (SEA) Pte Ltd, Security Systems 11 Bishan Street 21 Singapore 573943 Phone: +65 6258 5511 Fax: +65 6571 2698 apr.securitysystems@bosch.com www.boschsecurity.com