ZX776Z PIR Intrusion Detector

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BOSCH
Invented for life

▶ Internal POPIT

▶ Motion Analyzer II processing

▶ Motion Monitor supervision

▶ Insect and draft immunity

▶ PIR supervision

The ZX776Z PIR Intrusion Detector uses Motion Analyzer II signal processing to reduce false alarms. The detector's internally pointable mirrors and three coverage patterns provide installation flexibility. The ZX776Z includes an internal POPIT for addressable alarm and trouble signaling while communicating on the Zonex bus.

Functions

Motion Analyzer II Processing

Motion Analyzer II uses multiple thresholds and timing windows to analyze timing, amplitude, duration, and polarity of signals to make an alarm decision. It tolerates extreme levels of heat and light disturbances caused by heaters, air conditioners, hot and cold drafts, sunlight, lightning, and moving headlights.

Motion Monitor Supervision

Confirms the detector has a clear view of the detection area. The Zonex Bus indicates a trouble condition and the LED pulses if the detector has not alarmed at least once during a selected time period.

Insect and Draft Immunity

The sealed optical chamber provides immunity to drafts and insects.

PIR Supervision

PIR operation is checked electronically approximately every 12 hours. If the circuit fails, the LED pulses four times and the trouble output is indicated through the Zonex bus.

Test Pins

Internal noise voltage test pins provide precise pattern location and background disturbance evaluation using a standard analog meter.

Three Sensitivity Settings

- **Standard Sensitivity:** Recommended setting for maximum false alarm immunity. Tolerates environment extremes on this setting. Not recommended for barrier or long range coverage patterns.
- **Intermediate Sensitivity:** Recommended setting for any location where an intruder is expected to cover only a small portion of the protected area. Tolerates normal environments on this setting.
- **High Sensitivity:** Fast response to intruder signals. For use in quiet environments where fluctuations in heat or light are not anticipated.

Certifications and approvals

Region	Certification	
USA	UL	ANSR: Intrusion Detection Units (UL639)

Installation/configuration notes

Compatibility Considerations

Model	Compatible Control Panels
ZX776Z	• GV2 and G Series • 9000 Series • D9112B1 • D7212B1

> **ℹ Notice**
> The ZX776Z connects to control panels on a Zonex bus.

Mounting Considerations

Select a location that is most likely to intercept an intruder moving across the coverage pattern. Ensure the mounting surface is solid and vibration free. Avoid hot and cold drafts, direct sunlight, heat sources, windows, air conditioning, and small animals. The ZX776Z does not detect through glass.

> **ℹ Notice**
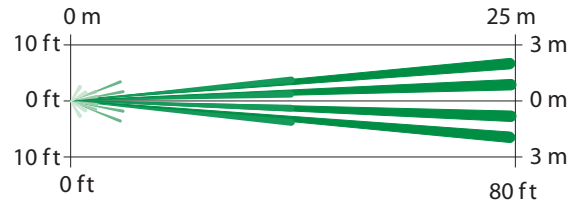> Misaligning the detector in an optional mounting bracket can reduce its range.
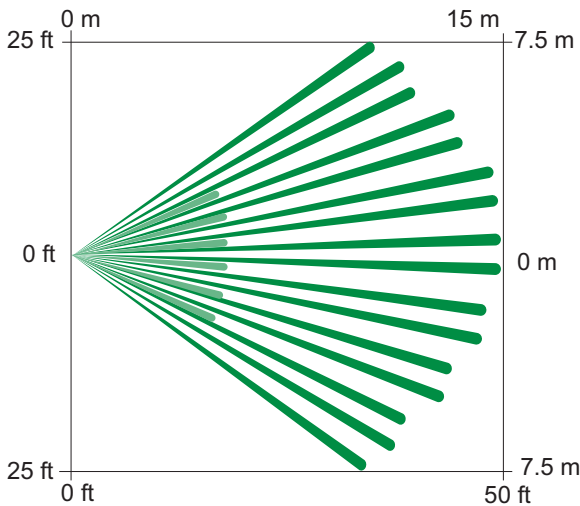
Top View
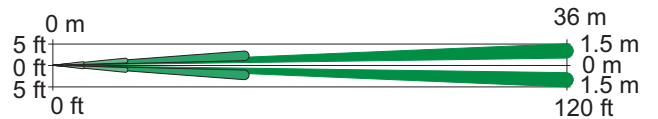Broad: 15 m x 15 m (50 ft x 50 ft)
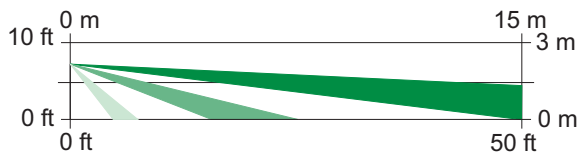
Side View
Broad: 15 m x 15 m (50 ft x 50 ft)

Top View
Barrier (OMB77): 25 m x 5 m (80 ft x 16 ft)

Side View
Barrier (OMB77): 25 m x 5 m (80 ft x 16 ft)

Top View
Long Range (OMLR77): 36 m x 3 m (120 ft x 10 ft)

Side View
Long Range (OMLR77): 36 m x 3 m (120 ft x 10 ft)

Technical specifications

Enclosure Design

Dimensions:	14.6 cm x 9.5 cm x 6.4 cm (5.75 in. x 3.75 in. x 2.5 in.)

Environmental Considerations

Temperature (Operating):	-29°C to +49°C (-20°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.

Mounting

Height (recommended):	2 m to 2.6 m (6.5 ft to 8.5 ft)
Location:	Surface or corner mount.
Internal Pointability:	Coverage is adjustable ±10° horizontally, +2° to -18° vertically.

Power Requirements

Alarm Supervision:	Signals through Zonex bus.
Current Draw:	Less than 1.7 mA during alarm condition
Input (Voltage):	Power comes from the control panel's two-wire Zonex bus
Standby Power:	There is no internal standby battery.

Ordering information

ZX776Z PIR Intrusion Detector
Provides PIR, 15 m x 15 m (50 ft x 50 ft) coverage, configurable with three coverage patterns, and an internal POPIT.
Order number **ZX776Z**

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, plastic mount for wall mounting. The vertical swivel range is +10° to -20°, while the horizontal swivel range is ±25°. Available in triple packs.
Order number **B335-3**

OMB77-3 Barrier Mirror
Provides barrier coverage with a 25 m x 5 m (80 ft x 16 ft) pattern. Shipped in packages of three.
Order number **OMB77-3**

OMLR77-3 Long-range Mirror
Provides long-range coverage with a 40 m x 3 m (120 ft x 10 ft) pattern. Shipped in packages of three.
Order number **OMLR77-3**

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**