

MX775i Multiplex PIR Intrusion Detector

Prod. ID

MX775i



The MX775i is a PIR intrusion detector that provides a variety of coverage patterns through the use of interchangeable mirrors and the choice of mirror angle settings. It is designed to be surface or corner mounted, but can be mounted with any of three optional brackets. This provides further flexibility in aiming the detector.

Note: Misalignment of the detector when using an optional mounting bracket may reduce range.

It is designed to connect to the Multiplex Bus of a control panel and optionally to an auxiliary 12 VDC power source. It is compatible with Detection Systems' DS7400, DS7400X, or DS7400Xi Series Control/Communicators with a DS7430 or DS7436 Multiplex Expansion Module or with Bosch Security Systems' 9000 Series Control/Communicators with a D8125MUX Module installed.

Note: The DS7400 and DS7400X require ROM version 1.07 or greater.

■ Features

- Interchangeable, pointable mirrors
- Selectable sensitivity
- Built-in tamper switch

■ Basic Functions

Interchangeable, pointable mirrors

The detector comes with a standard broad pattern mirror and two optional mirrors are available: a long-range pattern mirror and a barrier pattern mirror. To change the mirror, pull it out from its resting grooves. To adjust the mirror vertically (from +1° to -18°) slide the mirror forward or back. To adjust the mirror horizontally (±10°) rock the mirror from side to side.

Selectable sensitivity

Selectable for Standard, Intermediate or High:

- **Standard:** Recommended setting for maximum false alarm immunity. Tolerates environment extremes on this setting. Not recommended for Long Range or Barrier type patterns. The detector is shipped in Standard Sensitivity mode.
- **Intermediate:** 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. This setting will improve your intruder catch performance.
- **High:** Fast response to intruder signals. For use in quiet environments where thermal and illumination transients are not anticipated.

Built-in Tamper Switch

The built-in tamper switch sends a signal to the panel's Multiplex Bus for display at the keypads when the detector's cover is removed.

■ Approvals

UL Standards

UL639, Intrusion-Detection Units

Approvals



■ Planning

Wiring

Note: Do not use shielded cable.

Use wire that is no smaller than #22 AWG (0.8 mm) to connect the detector to the control panel.

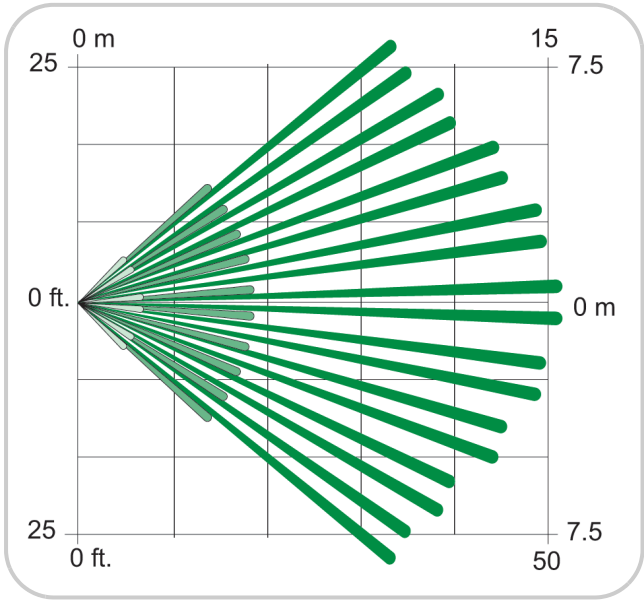
Coverage

The recommended mounting height range is 6.5 ft. to 8.5 ft. (2 m to 2.6 m). The range is variable depending on the vertical angle setting of the mirror. The following chart indicates vertical angle settings for the desired mounting height, mirror type, and range:

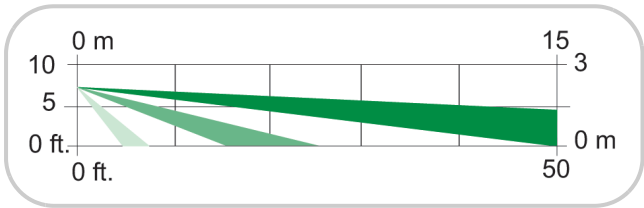
Height and Range listed in feet (meters)						
Mounting Height	Broad		Barrier		Long-Range	
	30 (9)	50 (15)	50 (15)	80 (25)	80 (25)	120 (36)
6.5 (2.0)	-6°	-5°	-3°	-2°	-2°	-1°
7.5 (2.3)	-8°	-6°	-5°	-3°	-3°	-2°
8.5 (2.6)	-9°	-7°	-6°	-4°	-4°	-2°

Broad (standard): 30 ft. to 50 ft. x 50 ft. (9 m to 15 m x 15 m)

Top View

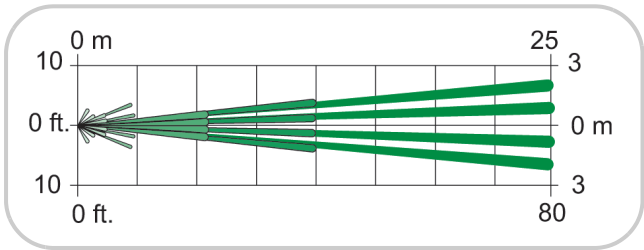


Side View

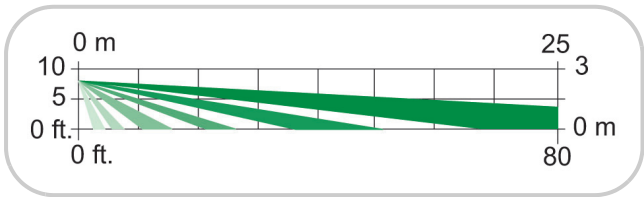


Barrier (optional): 50 ft. to 80 ft. x 16 ft. (15 m to 25 m x 5 m)

Top View

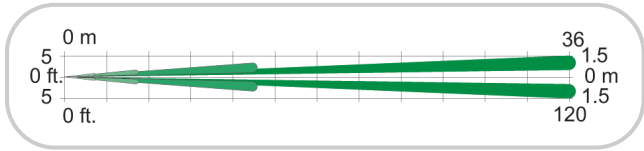


Side View

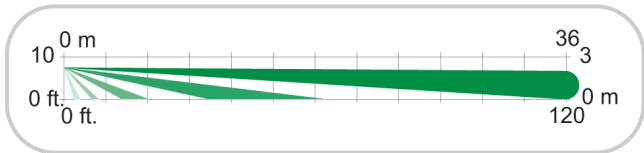


Long Range (optional): 80 ft. to 120 ft. x 10 ft. (25 m to 36 m x 3 m)

Top View



Side View



■ **Technical Specifications**

Environmental Considerations	
Temperature (Operating):	-20°F to +120°F (-29°C to +49°C). For UL Listed Requirements, the temperature range is +32°F to +120°F (0°C to +49°C).
Power Requirements	
Current Draw (2-wire):	
LED Off:	< 350 µA draw on Mux Bus
In Alarm; LED On:	2 mA draw on Mux Bus
Current Draw (4-wire):	
LED Off:	< 350 µA draw on Mux Bus, 0 mA draw on Aux. power
In Alarm; LED On:	< 350 µA draw on Mux Bus, 3 mA draw on Aux. power
Standby Power:	There is no internal standby battery. Connect to DC power sources capable of supplying standby power if primary power fails. For each hour of standby time needed, 350 µAh are required. For UL Listed Requirements, 4 hrs. (1400 µAh) minimum is required.
Voltage (Input):	12 VDC from panel's MUX Bus and optionally from an auxiliary power supply.
US Patents:	#4,764,755; #5,268,668; #5,302,941

■ Hardware Options

B328 Gimbal Mount Bracket

Mounts to single gang box. Wires are hidden inside.



B335 Low Profile Mount Bracket

Shipped in packages of three.



B338 Ceiling Mount Bracket

Shipped in packages of three.



OMB77 Barrier Mirror

Shipped in packages of three.



OMLR77 Long Range Mirror

Shipped in packages of three.



