



MX775i Multiplex PIR Intrusion Detector



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

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. 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 the DS7400Xi Series Control Panels with a DS7430 or DS7436 Multiplex Expansion Module or with G Series Control Panels with a D8125MUX Module installed.

Note The DS7400 and DS7400Xi require ROM version 1.07 or greater.

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.

Three Sensitivity Settings

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.

Internal Tamper Switch

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

Certifications and Approvals

Listings and Approvals: UL639, Intrusion-Detection Units
 ovals:

Installation/Configuration Notes

Wiring

Do not use shielded cable. Use wire that is no smaller than 0.8 mm (22 AWG) to connect the detector to the control panel.

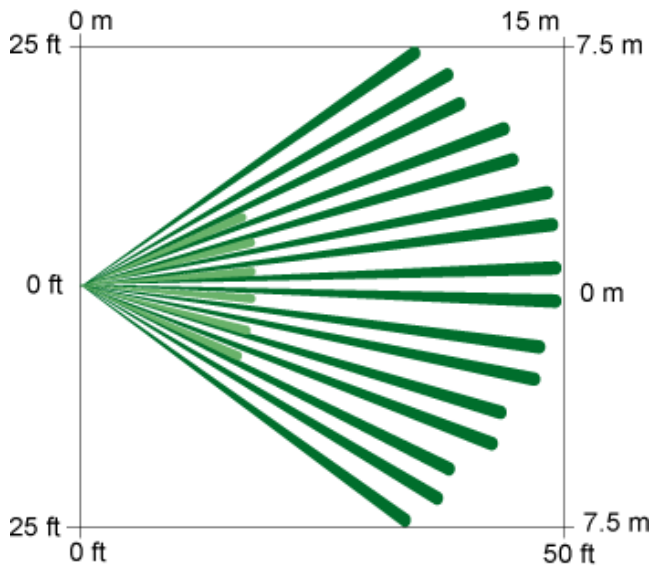
Coverage

The recommended mounting height range is 2 m to 2.6 m (6.5 ft to 8.5 ft). Misalignment of the detector when using an optional mounting bracket may reduce 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°

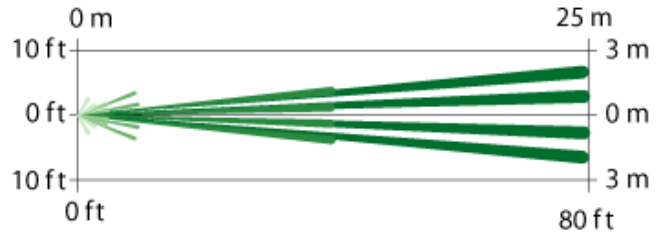
The range is variable depending on the vertical angle setting of the mirror. The chart indicates vertical angle settings for the desired mounting height, mirror type, and range.



Top View
Standard Broad Coverage: 9 m to 15 m x 15 m
(30 ft to 50 ft x 50 ft)



Side View
Standard Broad Coverage: 9 m to 15 m x 15 m
(30 ft to 50 ft x 50 ft)



Top View
Optional Barrier Coverage: 15 m to 25 m x 5 m
(50 ft to 80 ft x 16 ft)



Side View
Optional Barrier Coverage: 15 m to 25 m x 5 m
(50 ft to 80 ft x 16 ft)



Top View
Optional Long Range Coverage: 25 m to 36 m x 3 m
(80 ft to 120 ft x 10 ft)



Side View
Optional Long Range Coverage: 25 m to 36 m x 3 m
(80 ft to 120 ft x 10 ft)

Technical Specifications

Environmental Considerations

Temperature (Operating): -29°C to +49°C (-20°F to +120°F). *For UL Listed Requirements, the temperature range is 0°C to +49°C (+32°F to +120°F).*

Power Requirements

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.

Current Draw (two-wire):

LED Off: < 350 µA draw on MUX bus

In Alarm; LED On: 2 mA draw on MUX bus

Current Draw (four-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

Ordering Information

MX775i Multiplex PIR Intrusion Detector	MX775i
Provides a tamper switch, movable mirrors, and selectable sensitivity.	

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° to -20°; the horizontal pivot range is ±25°. Shipped in packages of three.	

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

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

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

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