

MX794i Long-Range Multiplex PIR Intrusion Detector

Prod. ID

MX794i



The MX794i is a PIR intrusion detector that provides a variety of coverage patterns through the use of interchangeable mirror modules. 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 Detection Systems' DS7400, DS7400X, or DS7400Xi Series Control/Communicators with a DS7430 or DS7436 Multiplex Expansion Module or with the 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 mirror modules
- Mounting bracket supplied
- 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, just pull it out from its resting grooves. The mirrors are adjustable from $+1^\circ$ to -18° vertically by sliding the mirror forward or back and $\pm 10^\circ$ horizontally by rocking the mirror side to side.

Mounting Considerations

The detector may be surface or corner mounted, but use of the B334 Mounting Bracket (included) is strongly recommended. Because variations exist in the surfaces of most mounting walls, most units are not mounted at perfect angles to the floor or walls. This may cause the pattern to point away from the "ideal" direction. To ensure proper catch performance, mounting the detector on a bracket permits the flexibility needed to adjust the direction of the coverage pattern.

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

Selectable sensitivity

Selectable for Standard, Intermediate or High:

- **Standard:** Tolerates environment extremes on this setting. Not recommended for OA200 coverage.
- **Intermediate:** The recommended setting for OA200 coverage or for locations where an intruder is expected to cover only a small portion of the protected area. Tolerates normal environments on this setting.
- **High:** The setting for 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 no smaller than #22 AWG (0.8 mm) to connect the detector to the control panel.

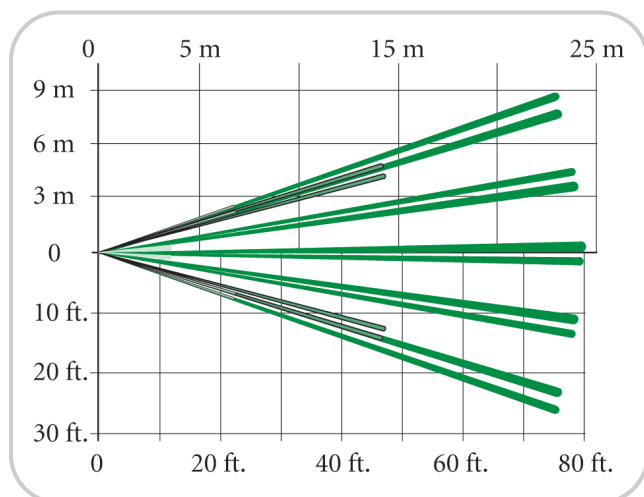
Coverage

The recommended mounting height is:

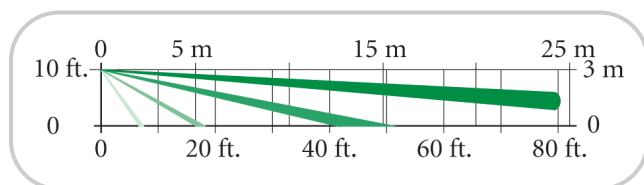
- 10 ft. (3.1 m) for the A200 mirror
- 7.5 ft. (2.3 m) for the A80 and A120 mirrors

A80 mirror module (supplied): 80 ft. x 50 ft. (24 m x 15 m)

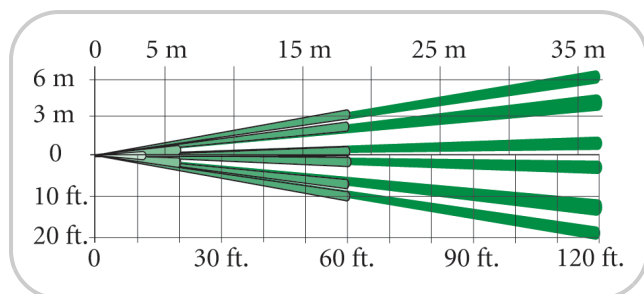
Top View



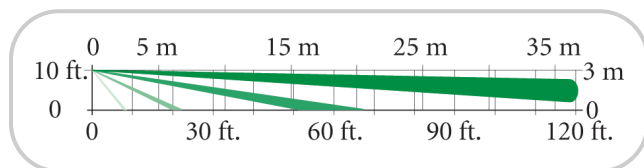
Side View

**A120 mirror module (optional): 120 ft. x 25 ft. (37 m x 8 m)**

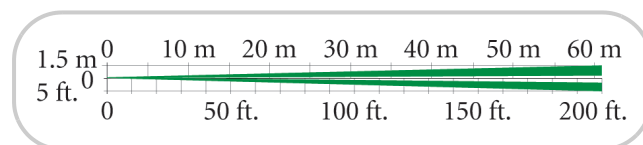
Top View



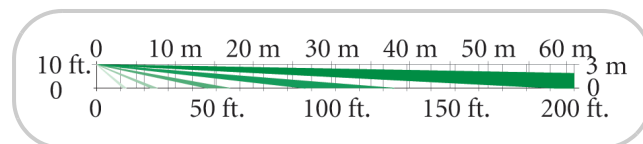
Side View

**A200 mirror module (supplied): 200 ft. x 10 ft. (61 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).
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Power Requirements**Current Draw (2-wire):**

LED Off:	< 350 μ A draw on Mux Bus
In Alarm; LED On:	2 mA draw on Mux Bus

Current Draw (4-wire):

LED Off:	< 350 μ A draw on Mux Bus, 0 mA draw on Aux. power
In Alarm; LED On:	< 350 μ A 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 μ Ah are required. For UL Listed Requirements, 4 hrs. (1400 μ Ah) minimum is required.
Voltage (Input):	12 VDC from panel's MUX Bus and optionally from an auxiliary power supply.

Hardware Options**OA120 Mirror**

120 ft. optical array module.
Shipped in packages of two.

