

# MRD-1P



## RADAR PRESENCE SENSOR

Primarily intended for use with barrier arm operators, the MRD-1P is a single-sided safety sensor used to detect people and vehicles in the path of the arm. Upon detection the sensor activates a Presence relay, used to prevent the arm from lowering and/or reverse the arm.

### Single-Sided and Dependable

The MRD-1P uses RADAR technology to sense the target with no need for additional equipment on the other side of the lane. The microwave beam is unaffected by rain, snow, ice, fog and sunlight.

### Easy Configuration

A 3-digit display provides a simple user interface to set the detection distance and configure a variety of other features, including Pulse On Exit, Fail Safe/Secure and more.

### Ball and Socket Bracket

The ball and socket bracket offers versatile positioning options for a seamless and secure setup.

### User-Programmable Range

The detection distance is programmable up to a maximum of 30ft (9.1m). The sensor will ignore any objects outside of the programmed detection distance.

### ½ Inch Conduit Connection

The ½ inch conduit connection ensures a reliable and sturdy link for a safe and dependable installation.

### Form C Presence Relay

A dry contact relay featuring Normally Closed, Normally Open, and Common Terminals provides the Presence output signal. Additional Pulse On Entry/Exit outputs are also provided (Normally Closed and Normally Open).

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scan here for more  
information



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Part Number:

• EMX-1200-1

Email or Call to Order

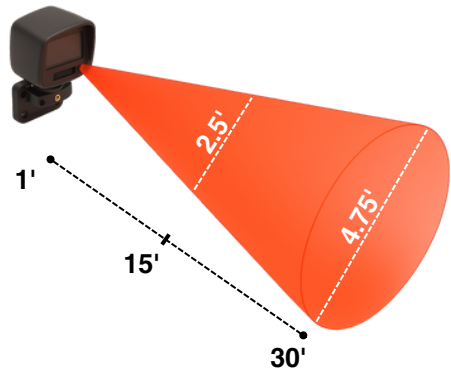


MORE DETAILS

The MRD-1P has a detachable screw terminal block for easier wiring.



The MRD-1P provides a maximum detection distance of 30 feet, with a beam spread measuring approximately 2.5 feet wide at 15 feet and 4.75 feet wide at 30 feet. The detection field projects forward in a conical pattern from the sensor face, expanding proportionally with distance.



Ball & Socket  
Mounting Bracket



Optional: HRD-288-1  
Universal Mounting Bracket

TECHNICAL DATA

Operating Range	1 ft (0.3m) to 30 ft (9.1m)
Power	6-40 VDC, 12-24 VAC
Current	40mA max (24VDC input)
Surge Protection	Thermal fuse, MOV
Relay 1 Operation	Close on Presence, Open on Presence
Relay 2 Operation	Pulse On Entry, Pulse On Exit
Response Time	30ms (250ms on Power-up)
Operating Temperature	-40 to 140 °F (-40 to 60 °C)
Environmental	NEMA 4X
Dimensions (L x W x H)	5.1" (130 mm) x 3.15" (80 mm) x 5.5" (140 mm)
Weight	1.75 lbs.
Ball Joint Mount Conduit Thread	½ Inch NPT

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