MRD-1P

EMX INDUSTRIES, INC.

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).

MRD-1P

scan here for more information

EMX Industries, Inc.

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Part Number:
- EMX-1200-1

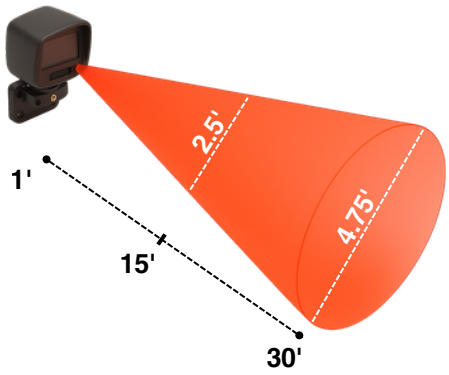
Email or Call to Order

MADE IN USA

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)
Operating Frequency	61 GHz
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

WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of sale to our customer. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser’s exclusive remedy shall be limited to the repair or replacement at EMX’s option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but, not limited to any damages resulting from non-conformity defect in material or workmanship. Rev 3 12/06/2022

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