

IRB-MON

UNIVERSAL UL325-2016 PHOTOEYE

Applications

The IRB-MON provides a universal solution for entrapment protection. One photoeye covers the entire spectrum of possible requirements for monitored and non-monitored photo eyes, simplifying inventory management and product training.

The IRB-MON is an external entrapment protection device type B1, non-contact sensor for use with automatic gates and doors. The device is UL325-2016 compliant and suitable for use with both operators that require monitored entrapment protection and those that do not require monitored operation.

There are four monitoring interfaces:

1. Normally closed: Cycle power to the transmitter while monitoring the receiver contacts for proper operation
2. Two-wire pulsed (2 freq): Provides 300Hz "heartbeat" unobstructed, 0Hz obstructed over power supply lines
3. Two-wire pulsed (3 freq): Provides 300Hz "heartbeat" unobstructed, 2Hz obstructed and 0Hz failure over power supply lines
4. Resistive termination: Provides a 10k Ohm resistance when unobstructed

The long range and thru-beam features combined with the installer mode switch settings provide a flexible solution to all external entrapment protection needs. A robust, NEMA 4X enclosure provides the durability required for high-reliability entrapment protection applications. Lens-less design minimizes fogging and false triggering caused by small objects and provides for easy alignment.

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For more information, please visit www.devancocanada.com
or call toll free at 855-931-3334

Competitive Advantage

The major advantage of the IRB-MON is its flexibility; this photoeye covers the whole spectrum of UL situations.

- Monitored application per UL325-2016 as applied to overhead door and gate operators
- Non-monitored UL325 for gate operators prior to new 2016 requirements
- Non-UL installation

Distributors and dealers need only one photoeye to cover all these applications.

Accessories



IRB-HD



IRB-SH



IRB-SP



IRB-BR

Technical Data

Operating range	up to 115 ft. (35m)
Detection angle	24°
Sensitivity adjustment	potentiometer
Power indicator	Green LED
Detect indicator	Green LED
Mode selection switch	3 modes, relay output, pulsed (3 frequency), pulsed (2 frequency)
Relay output operation	Light on/dark on selection
Relay output	Form C contacts (NO, COM, NC)
Resistive termination	10k Ohm across NO contact
Power protection	Thermal fuse
Transmitter power cycle	>300mS (for use in configuration 0 Monitored)
Power supply	6...35 VDC, 12...24VAC (configuration 0-relay only)
Current (config. 1 and 2)	15mA (12VDC, includes TX and RX wired in parallel)
Current (config. 0)	60mA (relay activated)
Operating temperature	-40°F...170°F (-40°C...77°C)
Environmental	NEMA 4X
Dimensions (L x W x H)	2.3" (57mm) x 2.6" (65mm) x 3.7" (94mm)
Weight	TX - 0.35 lbs (159 g), RX 0.35 lbs (159 g)
Connections	TX-2 terminal, RX-5 terminal

Ordering Information

- IRB-MON Safety Photo Beam
- IRB-HD-SET Gold anodized aluminum protective hood
- IRB-SH-SET Gray powder coat steel hood
- IRB-BR "L" shaped mounting bracket
- IRB-SP Liquid tight strain relief connector
- IRB-S Set of nylon mounting screws with nuts

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 1.6 01/07/16



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