# **IRB-MON**

UNIVERSAL UL325-2016 PHOTOEYE

### **Applications**

The IRB-MON provides a universal solution for entrapment protection. One photo eye 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 compliant and suitable for use with both operators that require monitored entrapment protection and those that do not require monitored operation. It is designed to meet the upcoming 2016 UL325 regulation.

Monitored output is achieved using the "heartbeat" mode accomplished by pulsing the power supply lines, a method preferred by several operator manufacturers.

Monitored output may also be achieved using the relay contacts, cycling power of the transmitter and verifying the contact closure at the receiver before the actuation of the operator.

Non-monitored output is provided by a set of form C relay contacts.

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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## **Competitive Advantage**

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

- · Monitored application per UL325-2010 as applied to overhead doors operators
- Non-monitored UL325 as it stands now for the gate operators
   (new requirements for monitored devices are scheduled to go into effect in January 2016)
- · Non-UL installation

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

#### **Accessories**





up to 115 ft. (35m)





IRB-HD

**IRB-SP** 

**IRB-BR** 

#### **Technical Data**

Operating range **Detection angle** Sensitivity adjustment Power indicator **Detect indicator** Mode selection switch Relay output operation Relay output Power protection Transmitter power cycle Power supply Current (config. 1 and 2) Current (config. 0) Operating temperature Environmental Dimensions (L x W x H)

potentiometer
Green LED
Green LED
3 modes, relay output, pulsed (3 frequency), pulsed (2 frequency)
Light on/dark on selection
Form C contacts (NO, COM, NC)
Thermal fuse
>300mS (for use in configuration 0 Monitored)
6...35 VDC, 12...24VAC (configuration 0-relay only)
15mA (12VDC, includes TX and RX wired in parallel)
60mA (relay activated)

-40°F...170°F (-40°C...77°C) NEMA 4X

2.3" (57mm) x 2.6" (65mm) x 3.7" (94mm) TX - 0.35 lbs (159 g), RX 0.35 lbs (159 g) TX-2 terminal, RX-5 terminal

# **Ordering Information**

- IRB-MON Safety Photo Beam
- IRB-HD-SET Gold anodized aluminum protective hood

Weight

Connections

- 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 1.3 02/24/15

