

# IRB-EXP

EXPLOSIVE ENVIRONMENT PHOTOSWITCH

## Applications

The IRB-EXP photocell is used as a safety, reversing, or opening device in conjunction with automatic operators. The IRB-EXP will work with any control board that accepts dry contact on the input. The easy to install IRB-EXP is used with garage doors, rolling doors, parking barriers and other equipment located in explosive environments.

# IRB-EXP



**EMX**

INDUSTRIES

**EMX Industries, Inc.**

4564 Johnston Parkway, Cleveland, Ohio 44128

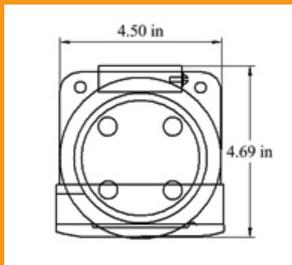
P. 800 426 9912 F. 216 518 9884

**Sales Inquiries:** [salesupport@emxinc.com](mailto:salesupport@emxinc.com) **Technical Support:** [technical@emxinc.com](mailto:technical@emxinc.com)

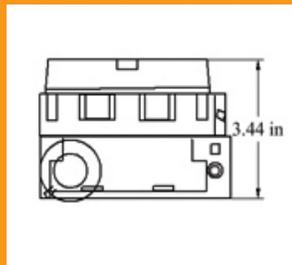
[www.emxinc.com](http://www.emxinc.com)

## IRB-EXP

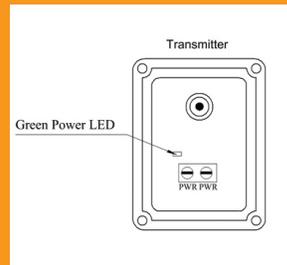
- Designed to operate in areas with explosive environments
- NEMA 4 and 7 housing
- NEC Class I, Groups B, C & D, Class II, Groups E, F & G CSA certified, CENELEC certified, EExd IIC
- Copper free aluminum with epoxy finish
- Potentiometer range adjustment to allow more precise tuning to site
- Easy alignment and increased reliability
- Through beam design is not affected by shiny surfaces
- Modulated infrared to reduce the effect of sunlight, fog, rain, dust and dirt
- No focusing lens



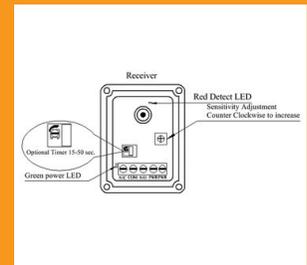
Length / Width



Depth



Transmitter Board



Receiver Board

## Technical Data

<b>Power</b>	12- 24volts AC or DC
<b>Current</b>	TX = < 21mA, RX = 23mA standby 17mA detect
<b>Range</b>	3 - 115 feet
<b>Operating Temp</b>	-40° F to +170° F
<b>Relay Contact Rating</b>	1A @ 24VDC or 120VAC
<b>Housing Material</b>	NEMA 4 & 7 Cast Aluminum
<b>Dimensions</b>	W – 4.69” x H – 4.5” x D – 3.44”
<b>Detection Angle</b>	18°
<b>Gain Adjustment</b>	Potentiometer
<b>Certifications</b>	CLASS I Groups B, C & D, CLASS II Groups E, F & G, CSA, CENELEC, EExd IIC

## Ordering Information

- IRB-EXP Infrared transmitter and receiver units

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 2.3 07/28/14