

IRB-X60



RETRO-REFLECTIVE PHOTOELECTRIC SENSOR

The IRB-X60 Retroreflective Infrared Photoeye simplifies installation while offering versatile performance across various applications.

- **Simplified Installation:** No need for complex wiring between two separate pieces of equipment. The IR beam is reflected back to the sensor for streamlined setup.
- **Wide Compatibility:** Equipped with dry NO/NC relay contacts, making it compatible with most control systems.
- **Long-Range Performance:** Operates up to 60 feet with support for a wide range of voltages (6-40 VDC and 12-24 VAC).
- **Easy Alignment LED**



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scan here for more
information



EMX Industries, Inc.

5660 Transportation Blvd, Garfield Heights, Ohio 44125

Phone: 800 426 9912

Fax: 216 518 9884

Sales Inquiries: salesupport@emxinc.com

Technical Support: technical@emxinc.com

www.emxinc.com



Applications

- Process Automation
- Process Triggering
- Inventory Management
- Counting

Design & Features

- Ball Socket Joint for easy alignment
- Removable wiring block for easy access
- Sensitivity adjustment
- Alignment LED Indicators
- Retroreflective style for easy wiring to only one side
- Form C Relay Output

Ordering Information



IRB-X60 KIT

Retro-reflective photoelectric sensor kit, includes photo eye, reflector with hood and mounting bracket.



Specifications

SPECIFICATION	DETAILS
Operating Range	5 ft (1.5 m) to 60 ft (18.3 m)
Power	6-40 VDC, 12-24 VAC
Current (NC and 10K Monitoring Methods)	50 mA DC (Aligned State, Relay Activated)
Relay Contacts	Dry Contacts
Surge Protection	Thermal fuse, MOV
Relay Output Operation	Light ON Only
Response Time (Aligned to Unaligned)	10ms
Response Time (Unaligned to Aligned)	250ms
Operating Temperature	-30° to 140°F (-34° to 60°C)
Dimensions (L x W x H)	5.1" (130 mm) x 3.15" (80 mm) x 5.5" (140 mm)
Ball Joint Mount Conduit Thread	½ Inch NPT

Indicators

INDICATION	STATE	RELAY STATE
Green LED & Red LED On	Aligned with reflector, no obstruction	Aligned
Green LED On & Red LED Flashing	Partial Alignment	Aligned
Green LED On & Red LED Off	Beam obstructed or not aligned	Un-aligned
Green LED Off	No power	Un-aligned

Wiring Connections

TERMINALS	DESCRIPTION
V-	Transmitter power input
V+	Receiver power input
Energized NO	Normally open contact, relay output shown in energized state (power on, and no obstruction) when properly aligned to the reflector
Energized COM	Relay common
Energized NC	Normally closed contact, relay output shown in energized state (power on, and no obstruction) when properly aligned to the reflector

WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of manufacture. 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.

