

IRB-X50

RETRO-REFLECTIVE PHOTOELECTRIC SENSOR



The IRB-X50 Retroreflective Infrared Photoeye offers hassle-free installation and reliable performance.

- **Effortless Installation:** No need for wiring across the detection zone. The reflector sends the beam back to the photoeye, simplifying setup.
- **Versatile:** Functions up to 50 feet with a wide voltage range (12-240 VDC and 24-240 VAC)
- **Easy Alignment LED**



IRB-X50

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

- Small housing for fitting into tight locations.
- Short Range operation (0.5ft min distance to reflector)
- Alignment LED Indicators
- Retroreflective style for easy wiring to only one side
- Form C Relay Output

Ordering Information



IRB-X50 KIT

Retroreflective photoeye kit, includes photoeye with hood, reflector with hood, and mounting bracket with hardware.



Specifications

SPECIFICATION	DETAILS
Operating Range	0.5 ft (0.1 m) to 50 ft (15.2 m)
Power	12-240 VDC, 24-240 VAC
Current Draw	28 mA standby / 15 mA detected @ 12 VDC
Relay Output Configuration	Form C contacts (NO, COM, NC) 24 VDC, 2 A / 220 VAC, 0.6A
Response Time	10 mS
Operating Temperature	-4° to 140°F (-20° to 60°C)
Dimensions (L x W x H)	1.6" (41 mm) x 0.8" (21 mm) x 2.6" (66 mm)
Environmental Rating	IP 66

Indicators

LED INDICATION	STATUS
Yellow and Red On	Relay is energized and signal is aligned and stable
Yellow Off and Red On	Relay is energized, reflector is on the edge of the signal path
Yellow and Red Off	Beam is obstructed or photoeye is not aligned with the reflector

Wiring Connections

TERMINALS	DESCRIPTION
Brown	Power (12-240 VDC or 24-240 VAC)
Blue	Power (12-240 VDC or 24-240 VAC)
Gray	Relay – NO (normally open contact)
White	Relay – COM (common contact)
Black	Relay – NC (normally closed contact)

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.

