

VITECTOR

FRABA

RAY-RT REFLECTIVE PHOTO EYE



Reflective Photo Eye

RAY-RT is a versatile, reflective photo eye, specifically designed to address the challenges of the door industry. It is practically impact resistant due to its heavy duty housing while it requires much less wiring because of its single sided photo eye design. Red Light technology makes the sensor resilient to ambient light and infrared sensors that can often be found around today's doors. The sensor's patent pending technology, as well as the use of a polarized beam makes the RAY-RT extremely reliable for almost any application.

Interface Options

RAY-RT is available with dynamic 2-wire signal output, one of the most common interfaces for monitored entrapment protection sensors in the door and gate industry.

Easy Installation

Several characteristics of RAY-RT make it one of the most easy to install entrapment protection sensors. It requires cabling only from one side of the door, making installation a lot faster than for traditional sensor solutions. An LED indicates the alignment of the sensor and the visible red light technology of the photo eye indicates power and proper operation.

Advantages

- UL325:2010 Recognized
- Polarized Beam for Maximum Reliability
- Retro-Reflective Technology
- No Batteries Needed
- Significantly Reduces Installation Time
- NEMA 4X Rated for Harsh Environments
- High Range
- Patent Pending Technology

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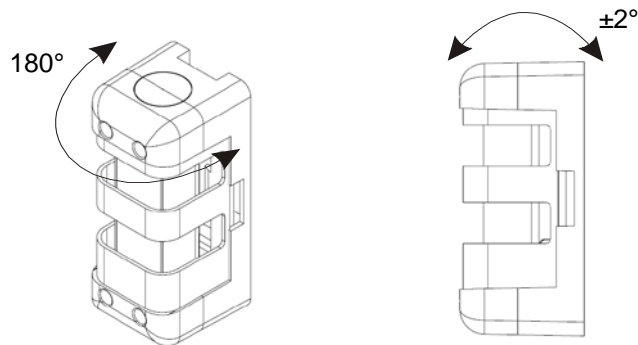
RAY-RT REFLECTIVE PHOTO EYE

Alignment and LED Pattern

LED Off	Aligned
LED On	Misaligned or interrupted
LED Blinking Fast	Not properly aligned, Sensor or reflector dirty
LED Blinking Slowly ¹⁾	Not 100% aligned

1) to assist alignment within 2 minutes after power-up

Sensor Alignment



Technical Data

Range	1.6 – 15 m, 5 ft. to 50 ft.
Environmental Protection	IP65, NEMA 4X
Temperature Range	-30 – 60 °C, -22 – 140 °F
Photo Eye Dimensions	43 x 100 x 45 mm [1.75 in x 4 in x 1.75 in]
Reflector Dimensions	50 x 87 x 15 mm [2 in x 3.5 in x 0.5 in]
Power Consumption	Max 40 mA
Response time	30 ms
Wake Up Delay	500 ms
Connection	2 m, 6.5 ft Cable, Fine Stranded, Wire Size 0.25 mm ² , AWG 24

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Photo Eyes

Art. Number	Art. Name	Output Specification	Test Input
10019020-2	RAY-RT 2004 HD	Dynamic 2-Wire Signal Output	n.a.

RAY-RT 2xxx – 2-Wire Output

The RAY-RT 2xxx supplies the door operator with a dynamic 2-wire signal. The sensor is compatible with most operators on the market, offering a 2-wire input for entrapment protection devices. Electrically non-polarized connection means that the sensor can be connected to the 2-wire interface without paying attention to the supply voltages polarity.

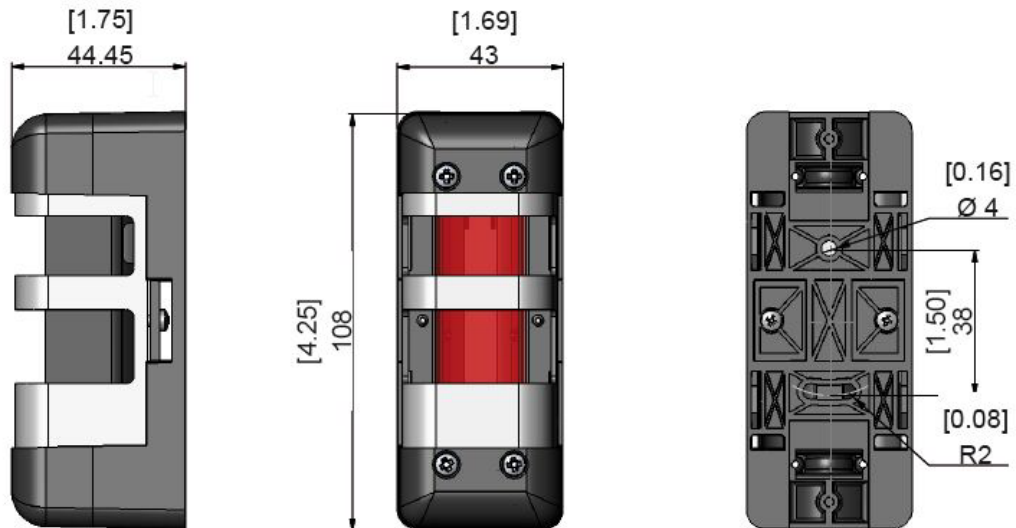
Wire Color	Description
BN	2-Wire Signal ¹⁾
BU	Electrically Unpolarized Connection

1) Interface Description available upon request

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Technical Drawings

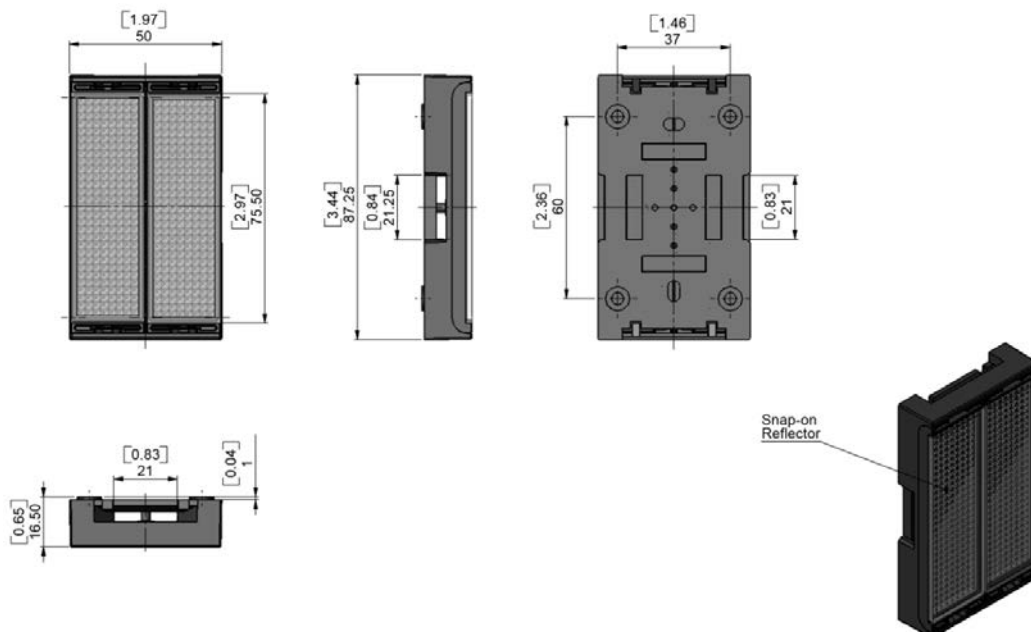
Sensor



Screw Holes for Flush Mounting

Dimensions in mm
[Dimensions in inch]

Reflector



Dimensions in mm
[Dimensions in inch]

RAY-RT REFLECTIVE PHOTO EYE

Accessories

Art. Number	Art. Name	Description	Remark
10019026-2	CS 4001	Conduit Connection Set	Junction Box, Cable Gland and 76" of Flexible Conduit

Disclaimer

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