

Reflective Photo eye

UL 325 Non-compliant



Operating Instructions

This product is an accessory or part of a system. Always read and follow the manufacturer's instructions for the equipment you are connecting this product to. Comply with all applicable codes and safety regulations. Failure to do so may result in damage, injury or death!

Product Overview

Product may be used for activation of gates or doors when the beam is interrupted. The NIR uses an Infrared signal that is returned from a reflector mounted on the opposite side of the opening to be monitored.

WARNING ... Not to be used for Personnel Protection

Never use product as sensing devices for personnel protection. Doing so could cause serious injury or death. These sensors do NOT include the self-checking redundant circuitry

necessary to allow their use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition. UL 325 Non-compliant

Technical Specifications

Power Supply 12 - 240 VDC 24 - 240 VAC

Power Supply Tolerance + / -10%

Current Draw 28mA standby 15mA detected @ 12 VDC

Housing Material ABS and Acrylate on lenses

Relay Type SPDT 2A @ 24 VDC 0.6A @ 220VAC

Temperature Range -20 - +60C

Connector Cable 2 Meter (6 feet)

Environmental Protection IP 66 IEC

 Size
 1.6" x 2.6" x 0.8"

 Response time
 10ms maximum

 Range
 0.3 - 30 feet

Certifications CE

Controls, Indicators and Connections

Top

	Sensitivity	
Clockwise increases sensitivity		
Normally set to maximum (single turn)		

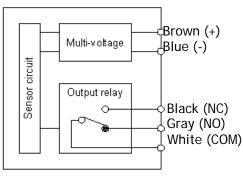
	Yellow LED
LED is on when unit is en	nergized and signal is
stabile	

	Red LED	
Is on when is energized and alignment is correct		
LED is off when unit is energized and object is		
detected or not aligned		

Wiring

Wire Color	Connections
Brown	Power Positive (+)
Blue	Power Negative (-)
Black	Internal Relay Contact Normally Closed (NC)
Gray	Internal Relay Contact Normally Open (NO)
White	Internal Relay Contact Common (COM)

Comments: The Blue wire and Brown wire are not polarity sensitive. Unit is designed to operate on AC power



Shown energized and aligned

Installation

Recommended alignment technique is to mount the NIR at the desired location and hold reflector about 2 or 3 feet in front of the unit and while watching the lights to assure that both remain lit, move backward to the desired mounting location for the reflector. You may have to move the reflector up, down, left or right to keep the reflector in the middle of the signal path. This assures the least troublesome set up by keeping the reflector off the edges of the signal where any movement may take it out of alignment. Note: the signal pattern is only 2 feet diameter.

Installer notes:

TROUBLE SHOOTING GUIDE

Symptoms	Possible cause	Possible Solution
Unit stays in detect	Unit out of alignment	Verify alignment
	Reflector covered with dirt, dust, snow or	Clean reflector surface of
	water	contaminants
	Water inside reflector	Replace reflector
		Add Reflector O-HD
No Output	No power	Check Wiring as per chart on
	Bad Connection, wires broken	page 2
	Mis-wired	Check connections
		Verify wired to correct inputs
		on operator
No Detection	Unit not powered	Check Power
	Other reflective surface causing signal return	Check surrounding area for
		reflective surface

Ordering Information

NIR Reflector-O NIR-HD Reflector-O-HD

Accessories







NIR-HD Reflector-O-HD

Reflector-O



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