

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-50 fail-safe reflective sensor 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

12 - 240 VDC 24 - 240 VAC Power Supply

Power Supply Tolerance + / -10%

Current Draw 28mA standby 15mA detected @ 12 VDC

Housing Material ABS and Acrylate on lenses

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

Temperature Range -20 - +60C

Connector Cable 2 Meter (6 feet)

Environmental Protection IP 66 IEC

1.6" x 2.6" x 0.8" Size Response time 10ms maximum Range 0.3 - 50 feet

Certifications CE

Controls, Indicators and Connections Top

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

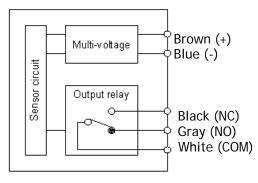
	Yellow LED
LED is on when unit is en	nergized and signal is
stabile	

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

Connections
Power Positive (+)
Power Negative (-)
Internal Relay Contact Normally Closed (NC)
Internal Relay Contact Normally Open (NO)
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-50 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-50 Reflector-O NIR-HD Reflector-O-HD

Accessories









Reflector-O



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