




Invisi-GUARD™

Thru-Beam Photo Eye

US Patent Pending

ANSI/UL325 Recognized Component 

Model # PH-T-2 Installation Instructions

Invisi-Guard photo optic system consists of one infrared emitter and one infrared receiver housed in separate units. The units are intended to be positioned in such a way that an obstruction in a hazardous area will interrupt the infrared light beam. An interruption of the beam will signal controls to stop and/or stop and reverse motion.

IMPORTANT:

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

1- Parts List

Check to make sure all parts are included.

- Emitter (1) (Em)
- Receiver (1) (Rx)
- Mounting Brackets (2)
- Mounting Screws (4)



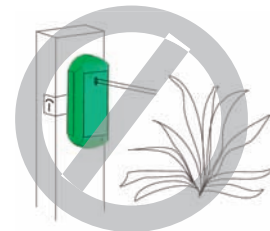
Assembled Emitter & Mounting Bracket



Assembled Receiver & Mounting Bracket

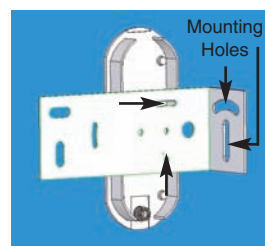
2- Mounting

2a) Select a stable mounting location with a clear line of site to detect obstructions, where the light beam could not be obstructed by plants, leaves, etc.

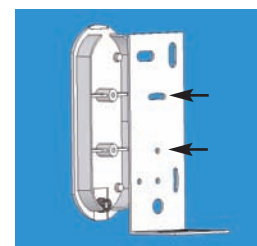


2b) Determine horizontal OR vertical bracket mounting direction. For ease of alignment, both emitter and receiver should be attached in the same direction.

2c) Attach Mounting brackets to EMITTER and RECEIVER using horizontal or vertical mounting holes, using the screws provided.

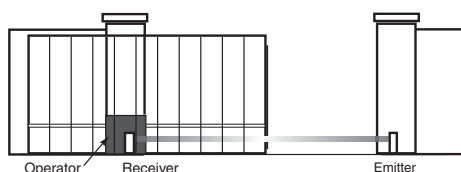


Horizontal Mounting Bracket

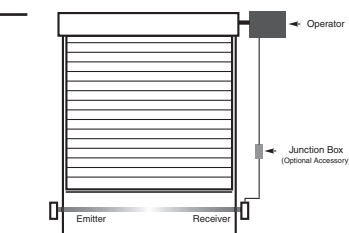


Vertical Mounting Bracket

3- Typical Installations



Sliding Gate Installation



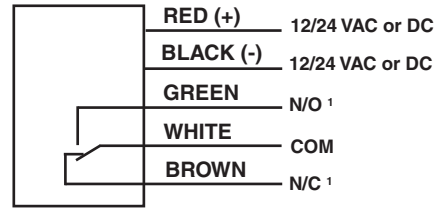
Door Installation

4- Wiring Connections

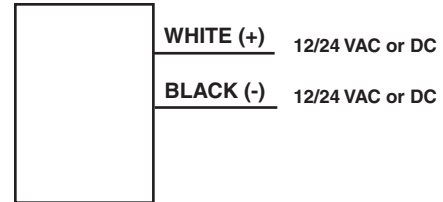
TO AVOID THE RISK OF ELECTROCUTION, TURN OFF AND DISCONNECT ELECTRICAL POWER TO THE MOTOR BEFORE WIRING.

Follow the simple wiring connections for the emitter and receiver to connect it to the operator.

1- Under normal operating conditions - Power supply is OK and eyes are aligned properly.



Receiver (Rx) Diagram



Emitter (Em) Diagram

5- Technical Specifications

Detection Technology	Infrared Thru-Beam
Infrared Beam Range	30 feet
Operating Temperature	-22°F to 140°F (-30°C to 60°C)
Power Supply (Em) & (Rx)	8-30VAC, 200mA 50/60Hz - 10-42VDC 100mA
Enclosure	NEMA 4
Warranty	We will replace or repair within 2 years of shipment from our factory. Warranty is void where evidence of misuse or abuse is present as determined solely by our authorized factory representative. Batteries are not covered under this warranty.

6- Trouble Shooting Tips

Under normal operating conditions, the Green and Yellow LED indicator lights will remain lit. This product includes self-monitoring circuitry. A loss of power (green light off) will cause the relay to close to the "safe" mode.

LED	Status	Diagnosis	Cause/Solution
GREEN	ON	Power supply is OK	Check for loose or broken wire connections.
	OFF	No Power	
RED	ON	Fault = Relay Closed	Obstruction of the light beam.
	OFF	Normal Operation	OK
YELLOW	ON	Eyes are aligned correctly	OK
	OFF	Eyes are not aligned	Reposition eyes until YELLOW light is ON.

Care and Maintenance:

-Use only a clean lint free cloth to clean emitter and receiving units.