

Installation Safety Precautions

WARNING: Nice MK00649 NEMA-1 infrared photo system is for use only with Nice logic board operators or relay logic operators equipped with the Nice failsafe interface module. Use of this device on other than recommended operators can lead to severe or fatal injury. Follow these instructions carefully.

IMPORTANT: For momentary activation on close, the Nice photobeams (or a Nice 2-wire monitored edge), must be installed as part of the operator system. If a Nice 2-wire monitored edge or the MiCANAN infrared photobeam system is not installed (or not operating correctly), the operator will only operate in fault mode (constant pressure to close).

READ and FOLLOW all installation instructions.

1. Before installing the photo beam, read the door or gate operator's instruction manual fully, so you are aware of all of the unit's functions and features.
2. Wear protective gloves and eye protection when using tools.
3. Before installing photo beam, disconnect all power to door operator to prevent unintended operation and have the door full open or close.
4. Do not reconnect power to the door or gate operator until instructed to do so.
5. Only install photobeams on a properly functioning door or gate operator.
6. Installation and wiring must comply with local building and electrical codes. This device is not intended and must not be installed in an explosive environment.

Package Contents:

1. Nice photo beam transmitter (TX) with red L.E.D. and 5' wire leads
2. Nice photo beam receiver (RX) with green L.E.D. and 5' wire leads
3. 2 mounting brackets
4. 2 screws
5. 2 nails
6. 2 wing nuts
7. 2 wire caps

Installation

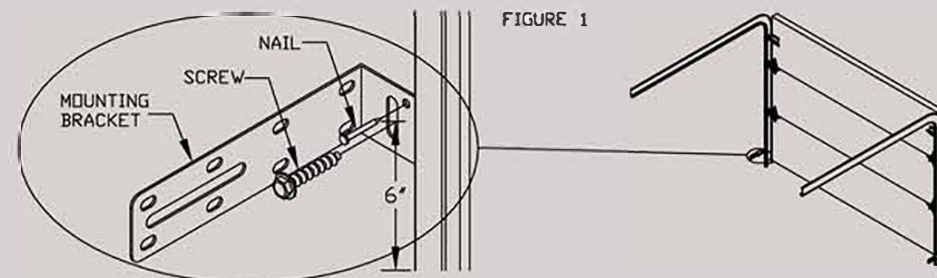
WARNING: Keep fingers and other body parts away from all moving parts of the door or gate operator system while the system is being operated.

WARNING: To prevent unintended operation, disconnect power to the door or gate operator prior to installing the photobeam system.

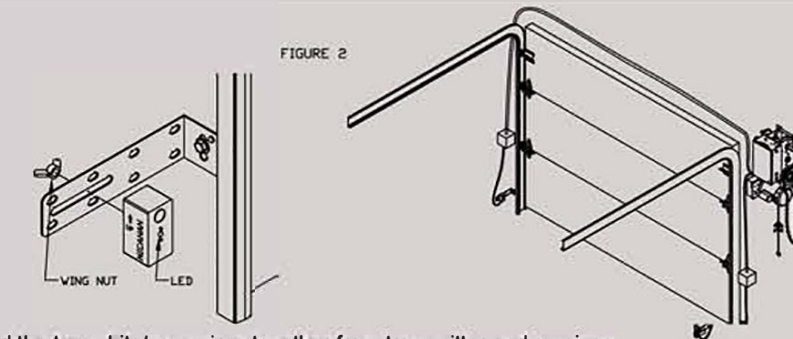
Note: Photo beams should be mounted as close to the door track inside the door to offer maximum entrapment protection.

Wall installation:

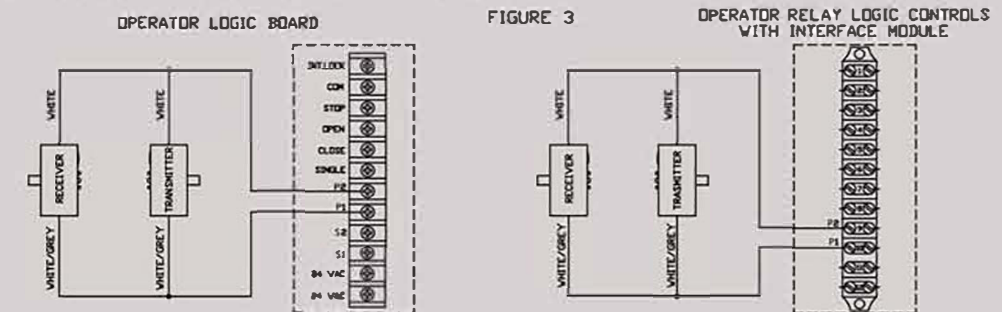
1. Select a location on the wall no more than 6 inches from the floor to install wall mounting brackets on the left and right side of the door. Both brackets must be mounted at the same height for proper alignment.
2. Drill holes in the wall and attach brackets to the wall using screws and nails provided as shown in Fig. 1.



3. Using the wing nuts, attach the receiver and transmitter of the photo system to the mounting brackets (with arrow pointing up). Note that the receiver and transmitter can be installed on the left side or right side of the door.
4. Adjust the position of the transmitter and receiver on the slot of the brackets. Secure the receiver and transmitter to the mounting brackets as shown in figure 2.



5. Pair the two white wires and the two white/grey wires together from transmitter and receiver.
6. Connect these paired wires to the P1 and P2 terminals on the logic board (or interface module if applicable) as shown in Figure 3. Use minimum 18 gauge wires and secure the wires to wall or ceiling.



Aligning the photo beams

1. Turn the power on to the operator. If the transmitter and receiver are installed properly, the lights on both the transmitter (red L.E.D.) and receiver (green L.E.D.) will be ON.
2. If the photo beams are not aligned properly, the receiver light (green) is OFF. Adjust the position of the transmitter and/or the receiver on the slot of the mounting bracket until the light on the receiver is ON and then secure to the bracket.

Photo system operation:

Nice photo beams must be connected for the door to close in momentary mode (unless a Nice monitored 2-wire edge is connected). When the photo system is properly installed and aligned, the infrared beam will detect any obstruction in the path of the beam. Upon detecting an obstruction, closing door will stop and reverse to full open. The Nice operator control circuit continuously monitors the correct operation of the photo system. If the photo beams are not connected or not functioning properly, the operator will go into fail-safe mode and closing door will reverse to full open. In fail-safe mode door can only be closed by constant pressure on close.

To test the photo system:

1. Open the door to full open position.
2. Close the door.
3. When door is closing, obstruct the beam. The door should stop and reverse.

Troubleshooting:

1. Lights are OFF on both transmitter and receiver
 - Verify the power to the logic board.
 - Verify a short in white and white/grey wires.
 - Verify wiring to correct terminals on the operator.
 - Verify any cut in the wires from the photo system to the operator.
2. Receiver light (green) is OFF
 - Verify the alignment of transmitter and receiver
 - Verify any cut wires from the receiver
 - Verify any obstruction in the path of photo beam
3. Photo system is connected properly but closing door does not reverse upon obstruction of beam.

For Logic board operators:

 - Verify if FAULT LED and SAFETY/PHOTO LED is ON upon obstructing the beam. If so, jump P1 and P2 terminals on the logic board while the door is closing. If the door does not reverse, call technician for further assistance.
 - If the FAULT LED and SAFETY/PHOTO LED are OFF upon detecting an obstruction, call technician for further assistance.

For relay logic operators with interface modules:

 - While door is closing, jump terminals P1 and P2 on the main terminal strip.
 - If the closing door reverses then call Nice technician for further assistance.
 - If the closing door does not reverse call Nice technician for further assistance.

VITECTOR

FRABA

IMPORTANT SAFETY INSTRUCTION

WARNING

To reduce risk of injury or death to persons

1. READ AND FOLLOW ALL INSTRUCTIONS
2. Disconnect power before attempting installation
3. For use with a class 2 supply +6V DC to +40V DC
4. For use as entrapment protection device on doors or gates
5. Refer to door or gate operator manual for details of accurate connection to the operator
6. OPTOEYE photo eyes are to be placed at the bottom of the opening no more than 6 inches (doors)/ 27.5 inches (gates) from the ground
7. OPTOEDGE safety edges are to be placed where risk entrapment or obstruction exists, such as the bottom edge of a vertically closing edge
8. SAVE THESE INSTRUCTIONS

Description

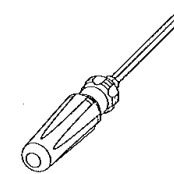
The OPTOEDGE and OPTOEYE are entrapment protection devices to safeguard doors or gates acc. to the requirements of UL325. The same optical sensors are used for both systems: for the photo eye OPTOEYE and the sensing edge OPTOEDGE.

Technical Data

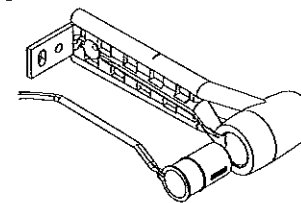
Power Consumption	max. 50mA
Supply Voltage	6 to 40V DC
Operation Temp.	-13°F to 165°F
Range:	
Safety Edge	30ft
Photo Eye	45ft

INSTALLATION OPTOEYE

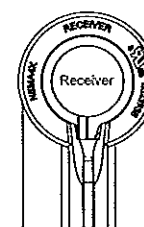
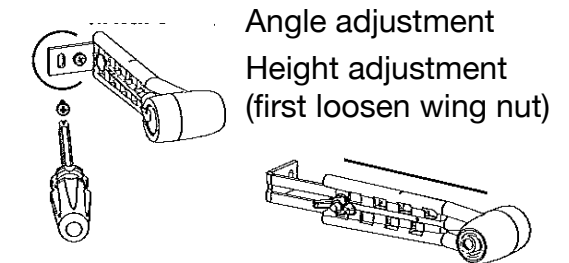
Required Tools:



1. Mount photo eye at the door/gate opening
2. Plug sensors into flexible adapters

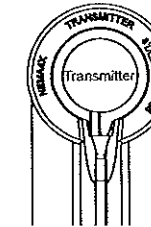


3. Wire photo eyes to the operator and connect to the monitored interface
4. Align transmitter and receiver by adjusting angle and height of the fixture



ATTENTION!

Coded Sensors



Utilize LED's for alignment and troubleshooting.

Red ON	Not aligned
Red OFF	Aligned
Green ON	Power connected
Green OFF	No power

