



# NORTH SHORE COMMERCIAL DOOR.COM

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support@northshorecommercialdoor.com

## IMPORTANT SAFETY INSTRUCTIONS

### WARNING

To reduce the risk of injury or death to persons

- 1) **READ AND FOLLOW ALL INSTRUCTIONS**
- 2) Disconnect power supply before attempting installation
- 3) Be sure to have the gate/door fully open or fully closed before installing the RAY-RT photo eye.
- 4) For use with a Class 2 supply +6V DC to +40V DC
- 5) For use as entrapment protection device on doors or gates
- 6) Refer to door or gate operator manual for details of accurate connection to the operator
- 7) RAY-RT 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

### 8) **SAVE THESE INSTRUCTIONS**

#### **Description**

The RAY-RT is an entrapment protection device to safeguard doors or gates acc. to the requirements of UL325. The RAY-RT is designed for both outdoor and indoor use.

#### **Technical Data**

Power Consumption max. 50 mA

Supply Voltage 6 to 40V DC

Operation Temp. -22°F to 140°F

Range: 5 to 50 ft.

#### **Product Contains**

One (1) RAY-RT Reflective Sensor

Two (2) L-Brackets for Mounting

One (1) Reflector

One (1) Protective Shield

Four (4) Self-Tapping Screws



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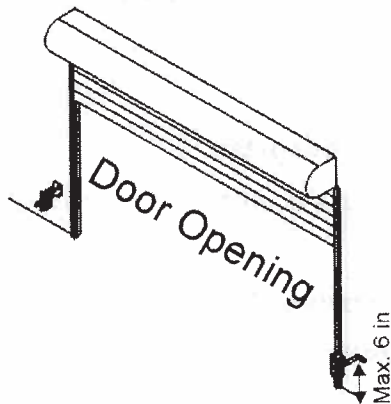
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## INSTALLATION RAY-RT HD

Doors and Gates must be equipped with entrapment protection devices to avoid danger of injury to persons. Before installation of such devices, the installer has to identify all danger zones of the door or gate.

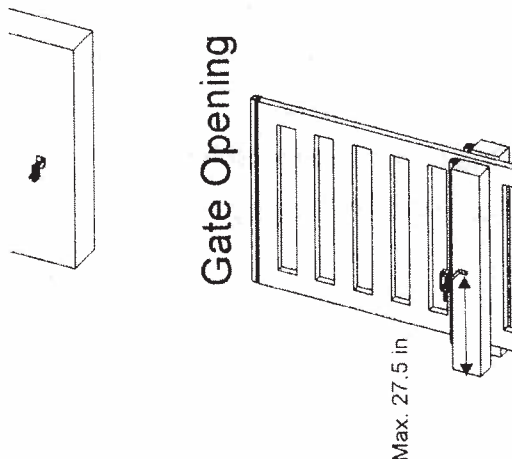
### Doors

Install the RAY-RT in the door opening not higher than 6 in. from the ground.



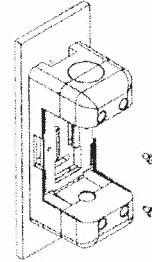
### Gates

Install the RAY-RT in the gate opening no higher than 27.5" from the ground.

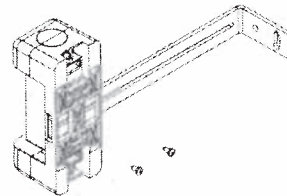


1. Mount RAY-RT at the door/ gate opening in one of the following ways by using brackets or fastening screws as shown:

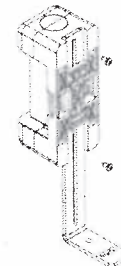
Wall Mount:



Bracket Mounting:



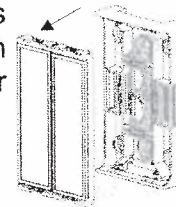
Horizontal



Vertical

2. Mount reflector in the same fashion as the RAY-RT sensor between 5 and 50 ft away, aligning it to the sensor. The area between the reflector and sensor defines the entrapment protection area.

Remove reflectors from holder to gain access to holes for screws.



3. Wire the reflective photo eye to the operator and connect to the monitored entrapment protection device interface. Consult operator manual for detailed installation instructions.



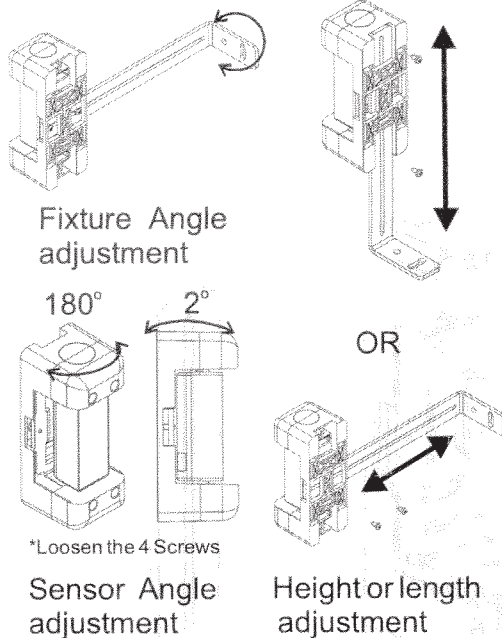
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## INSTALLATION RAY-RT HD

4. Align the RAY-RT with the reflector by adjusting angle and height of the fixture in conjunction with adjusting the sensor within the holder as shown below:

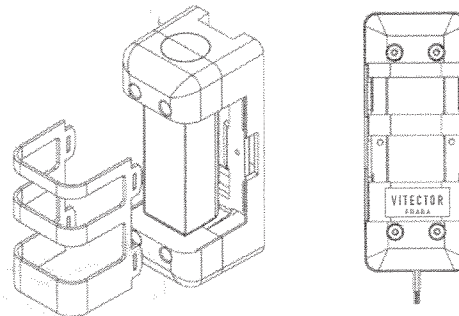


5. Use LED Indicators for Alignment

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

<sup>1)</sup> To assist alignment within 2 minutes after power-up.

6. Once photo-eye is properly aligned, snap shield into the front of the sensor as shown. Label should be readable when looking at the sensor with the wiring side down.



### IMPORTANT:

If the shield is not installed, the sensor does NOT comply to UL325 standards.

### NOTE:

If properly connected to a commercial door, the door should not close if there is an object obstructing the photo eye beam. See operator manual for more information.

If properly connected to a gate, the photo eye could prevent either closing or opening of the gate depending on entrapment zone and wiring. See gate manual for more information.



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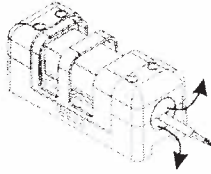
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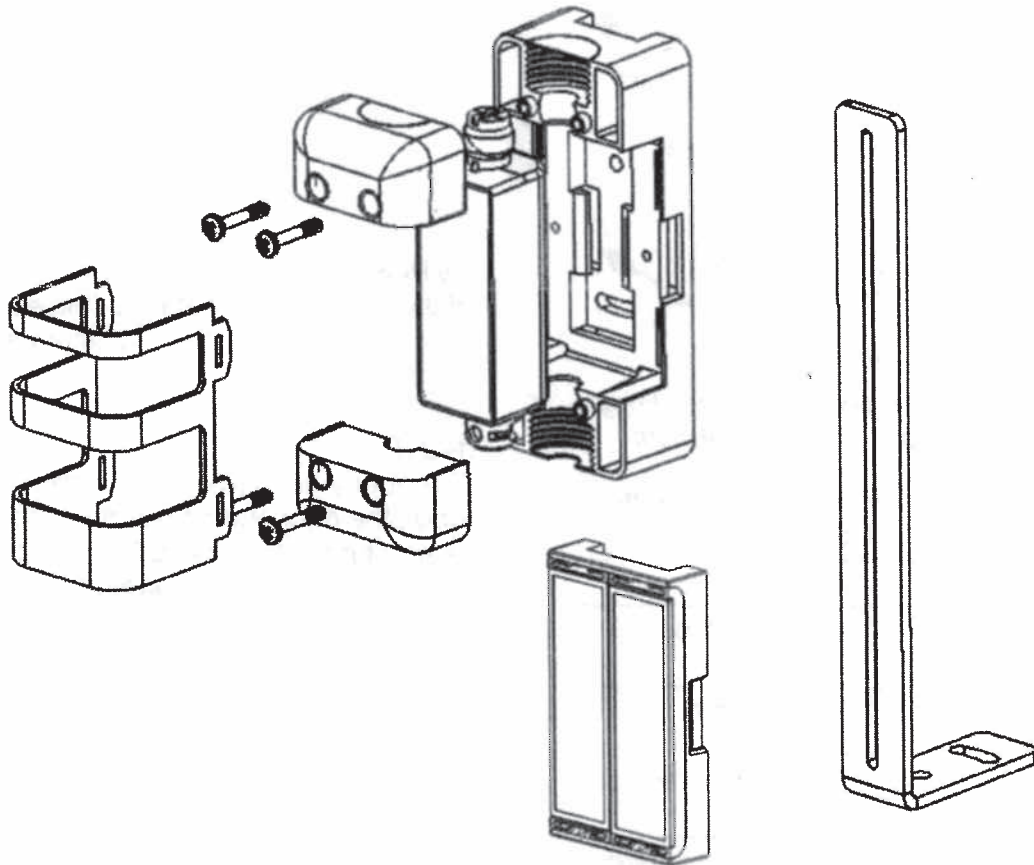
## INSTALLATION RAY-RT HD

### For Conduit Installation:

Break out punch-out on cable side of the RAY-RT with pliers to gain access to the threading. Use a connector with a 1/2"-14 NPSM Thread.



Conduit Connection Set with required hardware is available from the manufacturer.



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Issue Date: 06-June-2013