

ENFORCER®

E-961-S50TB Miniature Single Photobeam **Manual**



- Small size for a less conspicuous installation
- Simple to install
- Built-in AGC control to filter out lighting disturbances
- Signal strength indicator for easier alignment
- LED indicators for power, signal strength, and alarm
- Weatherproof for outdoor as well as indoor use (IP65)
- Mounting hardware included

ENFORCER Miniature Single Photobeam

Introduction:

The E-961-S50TB is a simple, easy-to-use, and easy-to-install single-beam infrared motion sensor. The device easily installs almost anywhere to provide an invisible beam that, when broken, sends a signal to activate a light, beeper, or other device. This makes the device perfect for use as part of an access control system, a door or window monitor, a retail store customer alert, or many other places where the user needs to know that someone has entered a specific room or building or other protected area. The E-961-S50TB is weather-proof, and comes with a built-in AGC control circuit that helps to filter out possible disturbance caused by local lighting conditions.

Parts List:

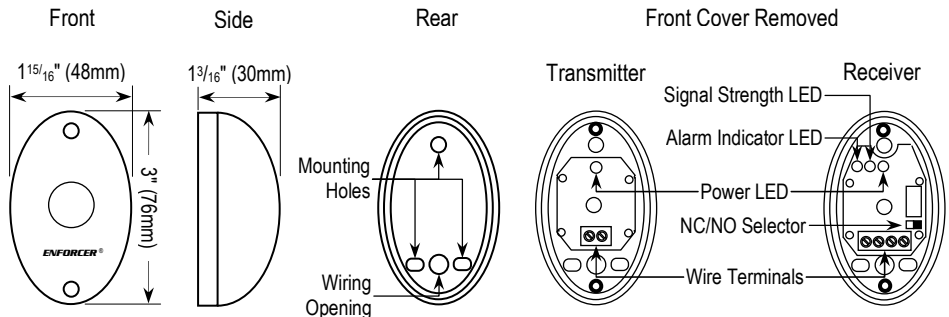
1x Transmitter	6x Screws	1x Manual
1x Receiver	6x Plastic wall anchors	

Specifications:

Number of beam channels	Single infrared beam	
Number of beam frequencies	1	
Sensor range	3-50ft (1-15m)	
Infrared LED wavelength	940nm	
LED beam spread angle	Approximately $\pm 10^\circ$	
Interrupt speed*	50ms	
Input power	10-24VDC	
Current draw (max)	Transmitter	30mA@12VDC
	Receiver	30mA@12VDC
Relay output	NO/NC relay (set by jumper, default is N.C.) 0.5A@30VAC/VDC	
LED (Transmitter)	Green - Indicates connected to power	
LEDs (Receiver)	Power (Green)	Indicates connected to power
	Signal (Yellow)	Dims/off when receiver's signal is weak / off when beam is broken
	Alarm (Red)	Indicates transmitter and receiver are not aligned or beam is broken
IP rating	IP65	
Operating Temperature	-13~131°F (-25~55°C) maximum humidity 95%	
Dimensions	3"x1 ¹⁵ / ₁₆ "x1 ³ / ₁₆ " (76x48x30 mm)	
Weight	1.2-oz (34g)	

*This is the minimum time interval for breaking the beam which will trigger the output.

Overview:

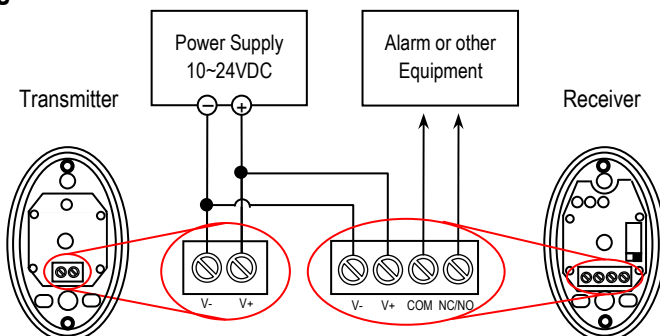


Sample Installation:

NOTE: Do not mount the E-961-S50TB where it is exposed to direct sunlight to prevent damage to the sensor.

NOTE: For best operation, there should be a minimum of 40 inches (1 meter) between the transmitter and receiver.

1. Find a location where the transmitter and receiver can be installed facing each other.
2. Ideally, mount the E-961-S50TB at least 8" (20 cm) above the floor. However, the actual mounting height will depend on the application.
3. Test the E-961-S50TB before mounting. Connect power to the transmitter and receiver, and hold them in the desired location by hand. Break the beam between them by walking through or slowly waving a hand through the beam. Adjust the location until the device operates properly.
4. Disconnect power.
5. With a pencil, lightly trace around the transmitter and receiver on the wall to show where they will be mounted.
6. Take the covers off the transmitter and receiver. Hold the bases against the wall in the areas traced, then use a pencil to mark the three holes in each base for mounting screws.
 - a. Wood or metal wall: Use a drill bit to drill a starter hole for each of the three mounting screw holes in each base. Then screw the mounting screws into the three holes.
 - b. Dry wall: Use a drill bit to drill a hole just barely large enough to insert the plastic wall anchors. Then screw the mounting screws through the base into the plastic wall anchors.
7. Ensure that the NO/NC jumper switch is correct for the device to be activated (default is N.C.).
8. Reconnect power, and connect the appropriate wires for the device to be activated to the receiver wire terminals.
9. Replace the covers and then re-test the E-961-S50TB.

Wiring Diagram:

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Troubleshooting:

Sensor does not detect the object	• Object may have a reflective surface which confuses the sensor. Try changing the angle of the sensor
Green power LED does not turn on	• Ensure that the power is connected
Yellow LED or Red LED does not turn off	• Clean the transmitter and receiver sensors with a damp (not wet) cloth • Readjust the alignment of the transmitter and receiver
Red LED lights when object is detected, but the output device is not activated	• Check the wiring between the receiver and the output device for continuity

Also Available from SECO-LARM®:

Quad Photobeam Detectors



- 4 Models available – up to 660ft (200m) range
- 12~24 VAC/VDC
- Weatherproof

Twin Photobeam Detectors



- 4 Models available – up to 390ft (120m) range
- 12~30 VAC/VDC
- Weatherproof

Long-Range Barrier Sensors



- 2, 4, 6, or 8 Beams available – up to 393ft (120m) range
- Multi-frequency
- Weatherproof

Reflective Photobeam Sensor



- Available with 45ft (14m) or 35ft (11m) range
- Weatherproof

Hooded Reflective Photobeam Sensor



- Available with 50ft (15m) or 33ft (10m) range
- Polarized version available
- Weatherproof

Flush-Mount Photobeam Sensors



- Available with reflective beam 16ft (5m) or through beam and 33ft (10m) range
- Adjustable alignment angle

IMPORTANT: Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or statutes.

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for one (1) year from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.

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