ENFORCER®

E-964-S50TB
Multi-Frequency Single Photobeam
Manual

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

SECO-LARM® SLI

Specifications:

Number of beam channels		Single infrared beam
Number of beam frequencies		4
Sensor range		3~50ft (1~15m)
Infrared LED wavelength		940nm
LED beam spread angle		Approximately ±10°
Interrupt speed*		50ms
Input power		10~24VDC
Current draw (max)	Transmitter	15mA@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)	Indicates receiver's signal is weak or beam is broken
	Alarm (Red)	Indicates transmitter & receiver are not aligned or beam is broken
IP rating		IP65
Operating temperature		-13~131°F (-25~55°C) maximum humidity 95%
Dimensions		$3^{11}/_{16}$"x$2^3/_8$"x$1^{13}/_{16}$" (94x60x46 mm)
Weight		2.6-oz (74g)

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

Parts List:
1x Transmitter   4x Screws   1x Manual
1x Receiver   4x Plastic wall anchors

Overview:
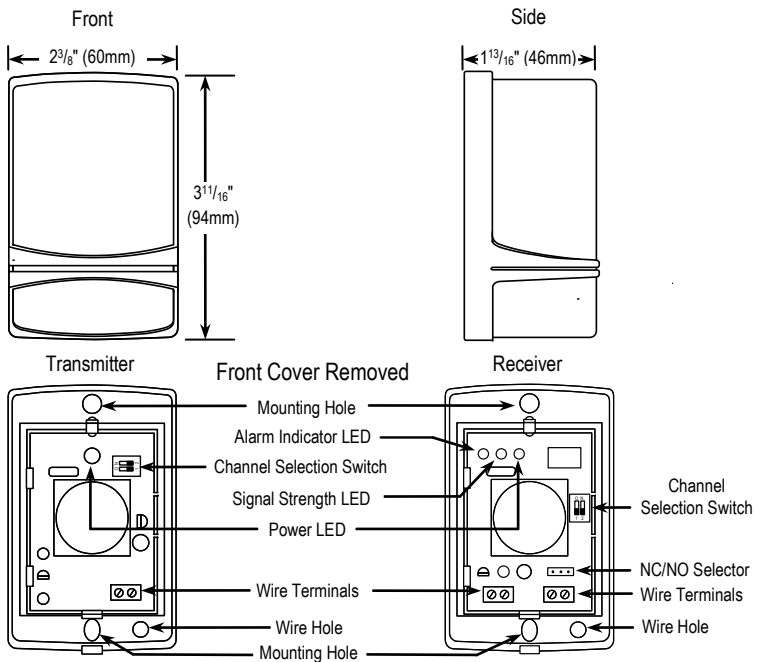
Sample Installation:

NOTE: Do not mount the E-964-S50TB where it is exposed to direct sunlight to prevent sensor damage.

NOTE: For best operation, allow a minimum of 40 inches (1 meter) between the transmitter and receiver.
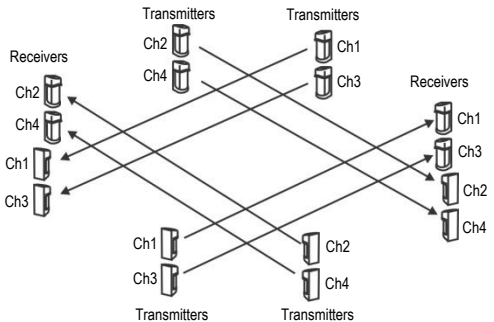
1. Find a location where the transmitter and receiver can be installed facing each other. Ideally, mount the E-964-S50TB at least 8" (20cm) above the floor. However, actual height depends on the application.

2. Test the E-964-S50TB before mounting.

   a. Choose from one of 4 frequencies by setting the dip switches on both the transmitter and receiver (see the Frequency Selection Chart on pg. 4). Both the transmitter and receiver must be set to the same frequency.

   b. Connect power to the transmitter and receiver and hold them in the desired location by hand. Break the beam by walking through or slowly waving a hand through the beam. Adjust the location until the device operates properly. Note that the circuit boards are hinged to allow for finer horizontal adjustment.

3. Disconnect power.

4. With a pencil, lightly trace around the transmitter and receiver to show where they will be mounted.

5. 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 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.

6. Ensure that the NO/NC jumper switch is correct for the device to be activated (default is N.C.).

7. Connect the appropriate wires for the device to be activated to the receiver terminals and reconnect power.
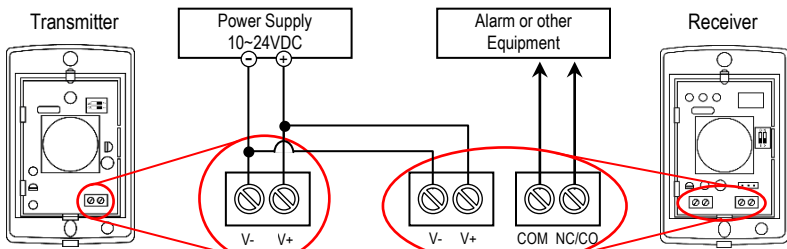
Sample Applications:

Perimeter Security:
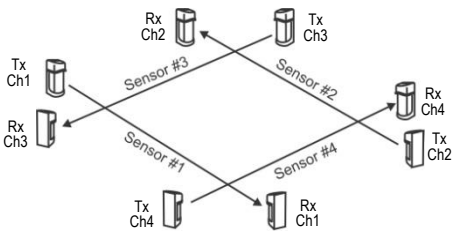
Perimeter Security (Double-stacked):

Wiring Diagram:

Frequency Selection Chart:

Frequency channel	CH1	CH2	CH3	CH4
Switch position	ON 1 2	ON 1 2	ON 1 2	ON 1 2

Important: Transmitter and receiver must be set to the same frequency.

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 • Ensure that both the receiver and transmitter are set to the same frequency
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:

Twin Photobeam Detectors	Reflective Photobeam Sensor	Hooded Reflective Photobeam Sensor	Flush-Mount Photobeam Sensors
• 4 Models available – up to 390ft (120m) range • 12~30 VAC/VDC	• Available with 45ft (14m) or 35ft (11m) range • Weatherproof	• Available with 50ft (15m) or 33ft (10m) range • Polarized version available	• Available with reflective beam 16ft (5m) or through beam and 33ft (10m) range

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.

SECO-LARM® U.S.A., Inc.
16842 Millikan Avenue, Irvine, CA 92606
Phone: (949) 261-2999 | (800) 662-0800

Website: www.seco-larm.com
Email: sales@seco-larm.com

® PICAN1

MI_E-964-S50TB-151105.docx