

ENFORCER®

Mini Photobeam Sensor

E-964-S65TB

Installation Manual



ENFORCER Mini Photobeam Sensors offer 4 selectable frequencies to avoid interference in installations with multiple pairs, IR signal secondary processing to make them highly adaptable to adverse environmental conditions, wide-voltage range to reduce voltage drop issues with longer wiring distances, all in a small, less-conspicuous size. Their switchable NO/NC output adapts to various alarm control systems, and they are IP55 weatherproof for installation indoors and out.

- Sensing range up to 65 feet (20m)
- 4 selectable frequencies to reduce interference
- Flexible power supply, 12~24 VDC, 12~20 VAC
- Small size for a less conspicuous installation
- Simple installation
- Signal strength indicator for easier alignment
- Built-in IR signal secondary processing technology to filter out lighting disturbances
- LED indicators for power, signal strength, and alarm trigger
- Mounting hardware included
- IP55 Weatherproof

Parts List

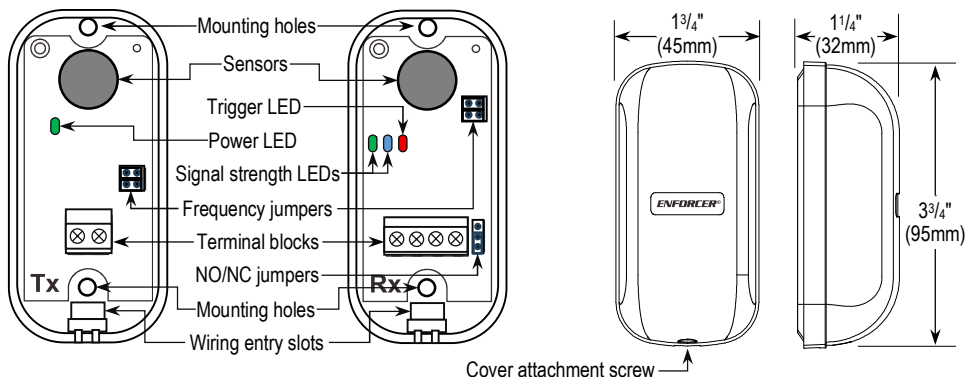
1x Transmitter	4x Mounting screws	4x Plastic wall anchors	6x Plastic screw washers
1x Receiver	2x Foam wiring slot plugs	1x Manual	

Specifications

Type	Photobeam	
No. of beams	1	
No. of beam frequencies	4	
Detection method	Beam completely blocked	
Sensing range	65' (20m)	
Response time	50ms	
Operating voltage	12~24 VDC, 12~20 VAC	
Current draw (max.)	Transmitter	15mA@12VDC
	Receiver	65mA@12VDC
Outputs	Number	1
	Type	Selectable NO/NC (default, N.C.)
	Rating	3A@24VDC
Alarm time range	≥ 2s	
Light source	Infrared LED, 940nm	
LED Indicators	Power	Green (transmitter only)
	Alarm	Red (receiver only)
Beam strength indicators	Weak	Blue – slow flashing = signal, faster flashing = stronger, then off (Receiver)
	Good	Green – slow flashing = good, faster = better, steady ON = optimal (Receiver)
Connectors	Screw terminals	
IP Rating	IP55 Weatherproof	
Operating humidity	Up to 95%, non-condensing	
Operating temperature	-22°~158° F (-30°~70° C)	
Dimensions (both units)	1 3/4" x 3 3/4" x 1 1/4" (45x95x32 mm)	

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

Overview



Sample Installation

- Find a location where the transmitter and receiver can be installed facing each other, ideally, at least 8" (20cm) above the floor. However, actual height may vary depending on the application.

IMPORTANT NOTES

- Do not mount where exposed to direct sunlight to prevent sensor damage.
 - For best operation, allow a minimum of 40 inches (1m) between the transmitter and receiver.
 - For installation of multiple pairs in close proximity, see *Sample Applications*, pg. 4.
- Remove the cover screw at the lower end of each unit to remove the cover to setup and test the sensors before mounting.
 - Set the frequency using the jumpers on the transmitter and receiver (see Fig. 1 and *Overview*, pg. 2). Both transmitter and receiver must be set to the same frequency.
 - Ensure that the NO/NC jumper is set correctly for the device to be activated (default, N.C., see Fig. 2 and *Overview*, pg. 2).
 - Connect only the power to the transmitter and receiver and hold them in the desired location by hand. Break the beam by walking between them or slowly waving a hand through the beam and look for the red alarm LED on the receiver to light up. Adjust the location until the device operates properly.
 - Disconnect power to both units.
 - While holding the bases in place, mark the mounting holes.
 - For wood or metal mounting, drill a starter hole for each mounting screw and wiring if concealed. Mount the base using the supplied screws.
 - For dry wall, drill holes barely large enough to tightly insert the plastic wall anchors and for wiring if concealed. Mount the base using the supplied screws in the plastic wall anchors.
 - Connect the wires for power and the triggered device (see *Wiring Diagram*, pg. 4). Apply power and note the status of the receiver LEDs (see Table 1, right).
 - Gradually adjust the receiver or transmitter horizontally or vertically, until you get the best signal (steady green LED, see Table 1).
 - If red LED is lit, no signal is being received.
 - As a signal is detected, the blue LED begins flashing slowly, then faster until it becomes steady ON.
 - Continue to adjust until the green LED begins to flash and the blue LED turns off.
 - The green LED steady ON indicates the optimal signal. Tighten the mount at that point.
 - Insert the foam inserts in the slot on the bottom end of the cover for increased weatherproofing.

Fig. 1

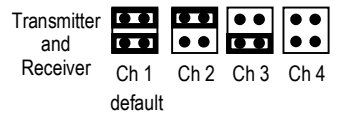


Fig. 2

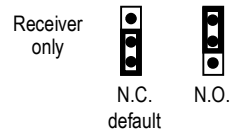
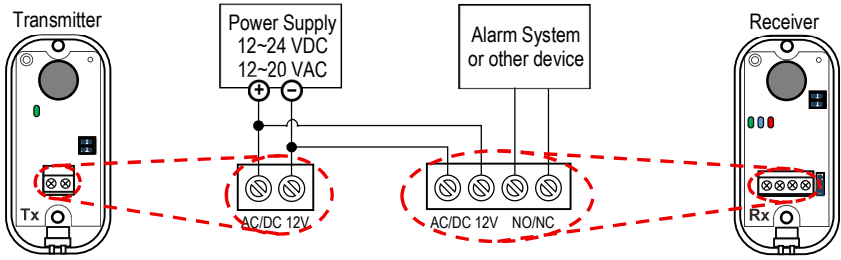


Table 1 – Receiver LED Indicators

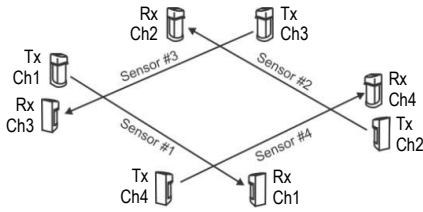
Signal Strength	Red (ALARM)	Blue (Minimal)	Green (Optimal)
Best	OFF	OFF	ON
Better	OFF	OFF	Flash
Good	OFF	ON	OFF
Fair	OFF	Flash	OFF
Re-adjust	ON	OFF	OFF

Wiring Diagram

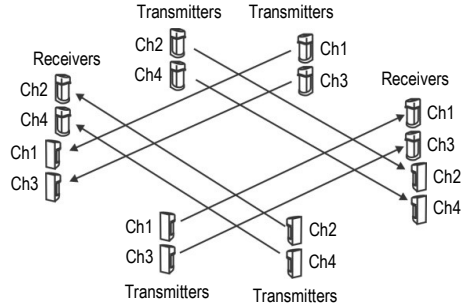


Sample Applications

Perimeter Security



Perimeter Security (Double-Stacked)



Troubleshooting

Sensor does not detect the object

Green power LED (transmitter) does not turn on

Blue LED or Red LED (receiver) do not turn off

Red LED (receiver) lights when object is detected, but the output device is not activated

- Object may have a reflective surface which confuses the sensor. Try changing the angle of the sensor
- Ensure the correct voltage power is connected and on
- 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
- Check the wiring between the receiver and the output device for continuity

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