

Smart Line™ Series

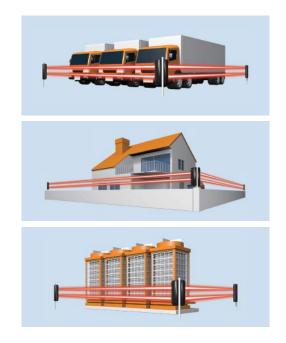
SL-100 TNR

SL-200 TNR

HYBRID PHOTOELECTRIC BEAM SERIES

Active Infrared Protection with Flexible Power





The SL-TNR series offers a cost-effective and versatile solution for protecting a perimeter line up to 200ft long, where cabling is an issue or inconvenient.

Ideal for small perimeters, flat roofs, and open areas, the active infrared dual beam set offers a lot of flexibility with its hybrid power options, where the transmitter is powered by Saft LSH-20 batteries, and the receiver can be hardwired.

The SL-TNR series utilizes high-grade aspherical lenses and also has an anti-frost design with IP65 weather protection to improve its durability during harsh weather conditions.

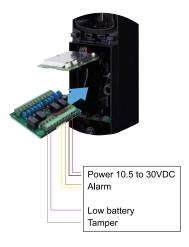
GREAT FLEXIBILITY WITH POWER OPTIONS

HYBRID — Hardwired Receiver

For site configurations where one beam is close to a main power source but the other beam needs to be wireless. The SL-TNR offers the option to hardwire the infrared beam receiver with the included PCU-5 power converter.







WIRELESS — With High Density Lithium Batteries

The SL-TNR series has been designed to work with D-size lithium batteries, and OPTEX recommends the Saft LSH-20 battery. Battery life expectancy is approximately 5 years when using LSH-20 batteries in both the transmitter and the receiver (4 batteries in total). LSH-20 batteries could also power the wireless transmitter when using the battery common unit BCU-5.



Battery-powered iSeries option available with



OTHER KEY FEATURES

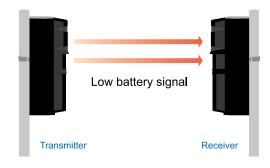
Simplified Battery Replacement

Batteries can be accessed easily without touching the main unit, eliminating the need to re-align the beams.



IR Communication for Low Battery Signal

The SL-TNR features an infrared communication between the transmitter and the receiver which signals the low battery status. It means that no wireless transmitter is necessary in the transmitter beam for this functionality. The system would only need one wireless transmitter on the receiver beam. If the customer would like to monitor the status of wireless transmitter's battery separately, a second wireless transmitter will be necessary on the transmitting beam.



WIRELESS-READY

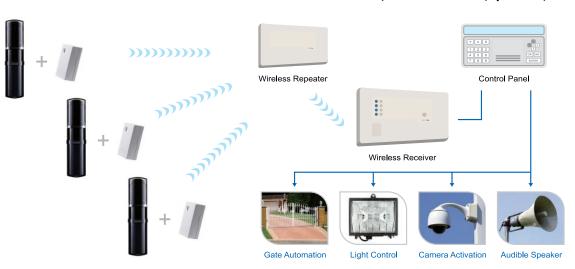
How to Add the SL-TNR to Your Wireless Enabled Alarm Panel

To easily connect a battery-powered SL-TNR to your wireless panel, please follow the steps below:

Use a two-input wireless door contact or universal wireless transmitter

- 1. Take one of your panel manufacturer's wireless transmitter
- 2. Register the wireless transmitter on the wireless alarm panel
- 3. Place the wireless transmitter in the SL-TNR's rear compartment (back box) and connect the alarm and tamper pair to the wireless transmitter
- 4. When the battery power of the SL-TNR is shared with the wireless transmitter, use the BCU-5 (optional)

A Whole Range of Applications Can be Triggered by the SL-TNR



INNOVATIVE MECHANICAL DESIGN



ACCESSORIES

BCU-5 Battery Common Unit Included For iSeries

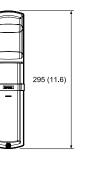
The BCU-5 allows sharing of power source and lowbattery signals between the beam and the wireless transmitter.

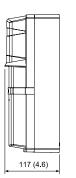
Input voltage	3.2 - 4.0 VDC		
Current draw	Approx. 5 µA at 3.6 VDC (no load)		
Output voltage	Normal	Approx. 2.3 - 3.6 VDC	
	Low battery	Approx. 2.0 - 2.6 VDC	
Output current	100 mA (max.)		
Operating temperature	-20°C - +60°C (-40°F - +140°F)		
Operating humidity	95% (may)		

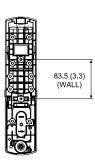


DIMENSIONS





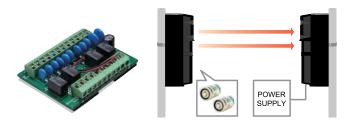




Unit:mm(inch)

PCU-5 Power Convert Unit Included for Hybrid

The PCU-5 is a voltage converter needed to hardwire the receiver and transmitter



Power input	10.5 - 30 VDC	
Current draw	80mA (max.)	
Output voltage	Approx. 3.9 VDC	
Output current	10mA (max.)	
Alarm output	Form C relay ; 30VDC, 0,2A	
Low battery output	N.C. relay ; 30VDC. 0.2A	
Tamper output	N.C. relay ; 30VDC. 0.2A	
Operating temperature	-20°C to 60°C (-4°F to 140°F)	
Operating humidity	perating humidity 95% (max.)	
Dimension	H×W×D mm (inch): 71 (2.8) × 53 (2.1) × 20 (0.8)	

LSH-20 Saft D Size Lithium Battery

For iSeries: 2 Included per Side For Hybrid: 2 Included for the Transmitter Unit

D cell 3.6V lithium battery



SPECIFICATIONS

	Madal		CL 400THD (OL 400THD)	OL COSTAID / OL COSTAIDI	
Model			SL-100TNR / SL-100TNRI	SL-200TNR / SL-200TNRI	
Maxi	mum detectio	n range	30 m/100 ft.	60 m/200 ft.	
Maxi	mum arrival d	istance	265 m/870 ft. 530 m/1740 ft.		
[Detection met	nod	Twin infrared beam interruption detection		
Interruption time		ne	Selectable from 50/100/250/500 ms (4 selections)		
Power source		е	3.6 to 3.9VDC D size lithium batteries Each Transmitter and Receiver: 2 units		
Current draw (stand by /at 25°C)			Total: Approx. 500 μA Transmitter: Approx. 200 μA Receiver: Approx. 300 μA	Total: Approx. 600 μA Transmitter: Approx. 300 μA Receiver: Approx. 300 μA	
Battery	D size	Transmitter	Approx. 6 years	Approx. 5 years	
life **	Lithium battery	Receiver	Approx. 5 years	Approx. 5 years	
	Alarm output		Form C-Solid State Switch: 3.9 VDC, 0.01 A		
	Alarm period		2 s (±1)		
Output	Low battery output		N.C. (Solid State Switch): 3.9 VDC, 0.01 A		
	Cover tamper output (Receiver)		N.C. (Solid State Switch): 3.9 VDC, 0.01 A Opens when the battery cover removed.		
Indicator LED	Alarm/ Level indicator (Receiver)		ON: Beam not received Blinking: Beam not received sufficiently OFF: Beam received		
	Power/ Low battery indicator (Transmitter and Receiver)		ON: Power ON Blinking: Voltage reduction OFF: Power OFF		
Operating temperature		rature	-20°C to +60°C (-4°F to 140°F)		
Operating humidity		idity	95 % (max.)		
Alignment angle		gle	±90° Horizontal, ±5° Vertical		
Dimension			H x W x D mm (inch): 295 (11.6) x 69 (2.7) x 117 (4.6)		
Weight			1200 g (42.4 oz.) (Total weight of Transmitter + Receiver, excluding accessories)		
International protection		ection	IP65		

iSeries (SL-100TNRi & SL-200TNRi) Only:

RF Module	Description	One-way binary RF Module	
	Model	EN1941	
	Manufacturer	INOVONICS	
	Frequency option	902-928 MHz for North America 915-925 MHz for Australia 921-928 MHz for New Zealand	







