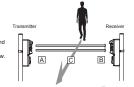
After installation is complete, be sure to check the operation

- Make sure that the Alarm/Level indicator LED is OFF If it is illuminated even when the beams are not blocked, make optical alignment again
- Check that the Power/Low battery indicator LEDs on both transmitter and receiver are ON. Replace with new batteries.
- 3 Conduct a walk test to check that Alarm/Level indicator LED on the



Be sure to conduct a walk test at the following three points: A. In front of the transmitte

B. In front of the receiver

C. At the mid point between the transmitter and receiver

The detector is installed properly when Alarm/Level indicator LED turns

6 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION		
Power/Low battery indicator LEDs are not illuminated. (transmitter/receiver)	Reversed battery polarity.	Check the battery polarity.		
Alarm is not output.	Reflection from the floor or wall.	Align beams away from the floor or wall.		
Main is not output.	Beam has not been blocked.	Block all two beams.		
When the beam is blocked, the "ALARM" indicator LED is illuminated but the alarm is not activated.	Signal line short-circuited	Check the wiring.		
	Interruption time is too short.	See "4-1 BEAM INTERRUPTION ADJUSTMENT" on page 3, set an appropriate interruption time.		
Alarm is activated even if the light is not blocked.	Surface of Transmitter/Receiver cover soiled.	Clean the cover (wipe the cover with a soft cloth dampened with water or diluted neutral detergent).		
	Optical alignment was not performed properly.	See "4-2 OPTICAL ALIGNMENT" on page 3 and make realignment.		
Batteries are running out too quickly.	Problem with tamper output.	Set the cover properly.		
Frost, snow or heavy rain causes false alarm.	Optical alignment not optimized.	See "4-2 OPTICAL ALIGNMENT" on page 3 and make realignment.		
Improper output	Problem with wiring.	Install the correct wiring.		
Even if new batteries are used, Low battery indicator LED is ON.	Batteries are inactive condition.	Open and close the battery cover 20 times with two seconds intervals. After this, open the battery plate and then close it.		

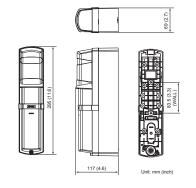
8 SPECIFICATIONS

Model			SL-100TNR	SL-200TNR			
Maximum detection range			range	30 m/100 ft.	60 m/200 ft.		
Maximum arrival distance			tance	265 m/800 ft.	530 m/1740 ft.		
	Detection	metho	d	Twin infrared beam interruption detection			
	Interrupt	ion time		Variable between 50/100/250/500 ms (4 steps)			
Power source			3.9 VDC D size lithium batteries Each Transmitter and Receiver: 2 units (SB-D02HP manufactured by VITZROCELL) 3.0 VDC CR123A lithium batteries Each Transmitter and Receiver: 8 units (OPTION CRH-5: 2 unit)				
Current draw (stand by /at 25°C) 3.0 VDC		IC .	Total: Approx. 500 μA Transmitter: Approx. 200 μA Receiver: Approx. 300 μA	Total: Approx. 600 μA Transmitter: Approx. 300 μA Receiver: Approx. 300 μA			
				Total: Approx. 600 µA Transmitter: Approx. 200 µA Receiver: Approx. 400 µA	Total: Approx. 700 μA Transmitter: Approx. 300 μA Receiver: Approx. 400 μA		
	SB-D02H	Р	Transmitter	Approx. 6 years	Approx. 5 years		
Battery	by VITZR	OCELL	Receiver	Approx. 5 years	Approx. 5 years		
life *	CRH-5 (CF	R123A	Transmitter	Approx. 1.5 years	Approx. 1 year		
	by Panasonic)		Receiver	Approx. 1 year	Approx. 1 year		
	Alarm output			Form C-Solid State Switch: 3.9 VDC, 0.01 A			
	Alarm period			2 s (±1)			
Output	Low battery output		out	N.C. (Solid State Switch): 3.9 VDC, 0.01 A			
	Cover tamper output (Receiver)		tput	N.C. (Solid State Switch): 3.9 VDC, 0.01 A Opens when the battery cover removed.			
Indicator LED	Alarm/ Level indicator (Receiver)		cator	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		ure	-20°C to +60°C (-4°F to 140°F)				
Operating humidity		у	95 % (max.)				
Alignment angle			±90° Horizontal, ±5° Vertical				
Dimension			H × W × D mm (inch): 295 (11.6) × 69 (2.7) × 117 (4.6)				
Weight			1200 g (Total weight of Transmitter + Receiver, excluding accessories)				
International protection		tion	IP65				

Specifications and design are subject to change without prior notice.

* The value is based on the condition that it is used within the ambient temperature range of 20 to 25°C. ** Using batteries other than those recommended may shorten the battery life

DIMENSIONS



9 OPTIONS

BCU-5 Battery Common use Unit (1 unit/set)

Share power source and low battery signals between the main unit and the wireless





CRH-5 CR123A Battery Holder (2 units/set)

Battery holder when using CR123A as a power source







PCU-5 Power Convertor Unit (1 unit/set, battery is sold separately.)

Voltage convertor unit used to enable wired operation of the detector







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These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion

These products conform to the EMC Directive 2004/108/EC.





No. 59-2032-3

INSTALLATION INSTRUCTIONS



MODEL	DETECTION RANGE				
SL-100 TNR	30m/100ft.				
SL-200 TNR	60m/200ft.				

FEATURES

- Battery operated detector
- D size lithium battery or CR123A lithium battery (OPTION CRH-5)
- · Simplified optical adjustment
- Sniper View Finder with ×2 magnification
- Avoids having to install a wireless transmitter in the photoelectric transmitter.
- IR signal transmission technology transfers the low battery signal to the receiver
- · Possible to connect the power and alarm cables to both the receiver and the transmitter or either of them - OPTION PCU-5
- · Long battery life

· Slim body design

- · Battery saving function
- Intermittent output function
- · Easy to see vivid interior color for optical alignment
- · IP65 waterproof structure
- · Tamper function
- · Indicator LED for an easy alignment
- Various options (Refer to page 4.)

(BCU-5, CRH-5, PCU-5)

1 INTRODUCTION

1-1 BEFORE YOUR OPERATION

- · Read this instruction manual carefully prior to installation
- After reading, store this manual carefully in an easily accessible place for reference.
- This manual uses the following warning indications for correct use of the product, harm to you or other people and damage to your assets, which are described below. Be sure to understand

in minor or moderate injury or in property damage.

the description before reading the rest of this manual.

:\ Warning	Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.

△Caution

This symbol indicates prohibition. The specific prohibited action is provided in and/or around the figure.

Indicates a potentially hazardous situation which, if not avoided, may result



This symbol requires an action or gives an instruction.



✓ This symbol indicates recommendation.

Do not use the product for purposes other than the detection of moving objects such as people and vehicles. Do not use the product to activate a shutter, etc., which may cause an accident.





when the product is wet with rain, etc.). It may cause electric shock.

Never attempt to disassemble or repair the product. It may cause fire or damage to the devices.

Do not use batteries that have different levels of power remaining (i.e., new and used batteries)

Not observing the above may result in an explosion, leakage of electrolyte, emission of toxic gases or other outcomes that may be harmful to people and property.

[Handling of Batteries] Do not recharge, short circuit, crush, disassemble, exceed heat above 100°C (212°F), incinerate, or expose contents to water. Do not solder directly to the cell

∆ Caution

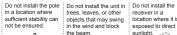
Do not pour water over the product with a bucket, hose, etc. The water may enter, which may cause damage to the devices.

Clean and check the product periodically for safe use. If any problem is found, do not attempt to

1-2 PRECAUTIONS

. Do not install the surface.





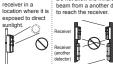




trees, leaves, or other



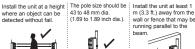




Do not allow the infrared



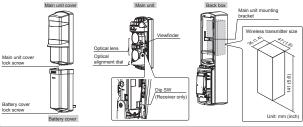


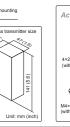


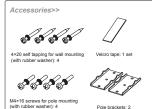


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1-3 PARTS IDENTIFICATION









2 PREPARATIONS

Detector power source		Battery type	Wireless transmitter power source	BALLERY			OPTION*		
				D-size	CR123A	For Wireless transmitter	CRH-5	BCU-5	PCU-5
Wireless		D size	From detector battery	4 pcs.	-	No	-	1 set	-
			From independence battery	4 pcs.	-	Need	-	-	-
		CR123A	From detector battery	-	16 pcs.	No	2 sets	1 set	-
			From independence battery	-	16 pcs.	Need	2 sets	-	-
Wired	Either Transmitter or Receiver	D size	From detector battery	2 pcs.	-	No	-	1 set	1 set
			From independence battery	2 pcs.	-	Need	-	-	1 set
		CR123A	From detector battery	-	8 pcs.	No	1 set	1 set	1 set
			From independence battery	-	8 pcs.	Need	1 set	-	1 set
	Both Transmitter and Receiver	-	From detector battery	-	-	No	-	1 set	2 sets
			From independence battery	-	-	Need	-	-	2 sets

^{*} Refer to "9 OPTIONS" on page 4

