Johnson Controls User manual	**PG9350SL** Wireless photoelectric beam detector

Detector features

- PowerG wireless photoelectric beam detector
- Battery life for transmitter is approximately four years, battery life for receiver is approximately five years when using LSH20 (3.6V, 13Ah) batteries manufactured by SAFT
- Battery saving function
- Intermittent output function
- Quad high-power beams
- Smart design with slim body
- Vivid interior colour for optical alignment
- IP65 waterproof structure
- 4-channel beam frequency selector
- Viewfinder with 2X magnification
- Beam interruption adjustment function
- D.Q. circuit (environmental disqualification)
- Tamper function
- LED indicator for an easy alignment
- Outdoor detection range of 350 ft

Introduction

The PG9350SL is a PowerG wireless photoelectric beam detector that provides protection for outdoor perimeters.

Warning: Failure to follow the instructions provided with this device or improper handling may cause death or serious injury.

Caution: Failure to follow the instructions provided with this device or improper handling may cause injury and/or property damage.

Safety information

Warnings

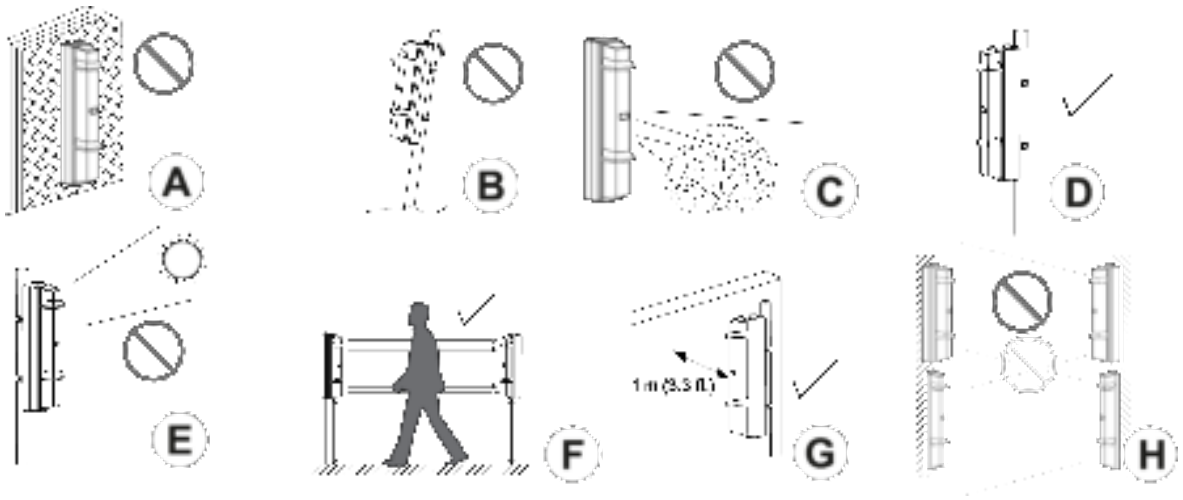
- Do not use the product for purposes other than the detection of moving objects such as people and vehicles.
- Do not use the product to activate a shutter, etc., which may cause an accident.
- Do not touch the unit base or power terminals of the product with wet hands. It may cause electric shock.
- Do not touch when the product is wet. 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, that is, new and used batteries. Not observing these guidelines may result in an explosion, leakage of electrolyte, emission of toxic gases, or other outcomes that may be harmful to people and property.
- When handling 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. Not observing these guidelines may result in fire, explosion, or severe burn hazard.

Cautions

- Do not solder directly to the cell.
- Do not pour water over the product with a bucket, hose, or similar. 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 use the product as it is and have the product repaired by a professional engineer or electrician.

Installation advice



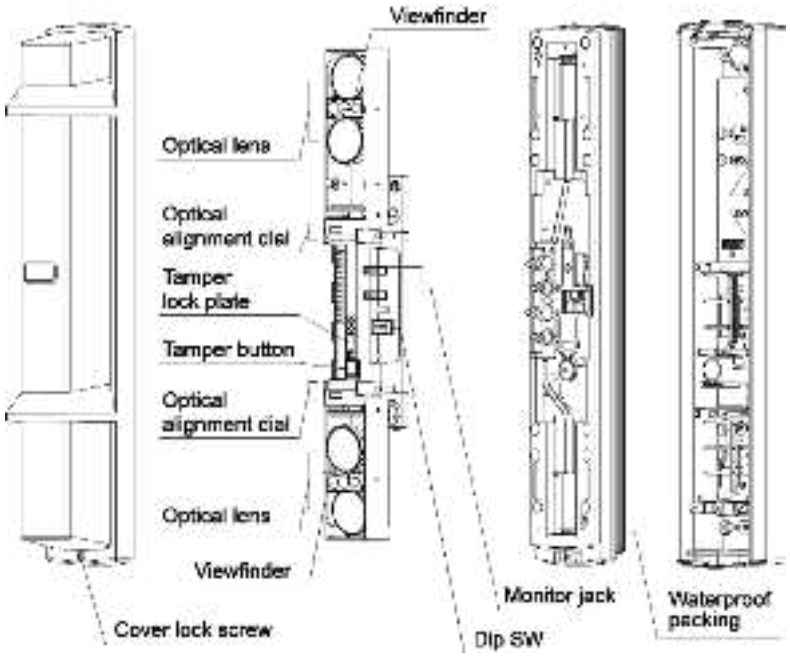
A	Do not install the unit on an unstable surface
B	Do not install the pole in location where it is not stable.
C	Do not install the unit near trees or other objects that may block the beam.
D	The pole size should be 34 - 48 mm (1.34" - 1.89").
E	Do not install the receiver in a location that is exposed to direct sunlight.
F	Install the unit at a height where an object can be detected without fail
G	Install the unit at least 1 m (3.3 ft.) away from a wall or fence that is parallel to the beam.
H	Do not install the unit where the infrared beam from a different model can reach the receiver

Caution Install the chassis, waterproof packing, and back box together. Not doing this may compromise IP rate of this product.

Box contents

Transmitter and receiver modules
Installation Manual
Hardware Pack

Parts identification



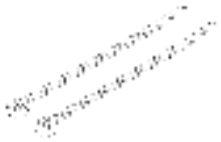
Accessories

4×20 self tapping for wall mounting
(with rubber washer): 12

Pole brackets
(with double sided tape): 4

M4×30 screws for pole mounting
(with rubber washer): 8

U brackets: 4



Binding bands: 2

Seam blocking plate: 2
(attached on the back of the cover)

Ordering detector batteries

Specified batteries: Four LSH20 batteries manufactured by SAFT, two for the transmitter and two for the transceiver.
For information about batteries, visit the following website and contact your local SAFT sales representative. See http://www.saftbatteries.com/battery-search/ls-lsh/.

Enrolment

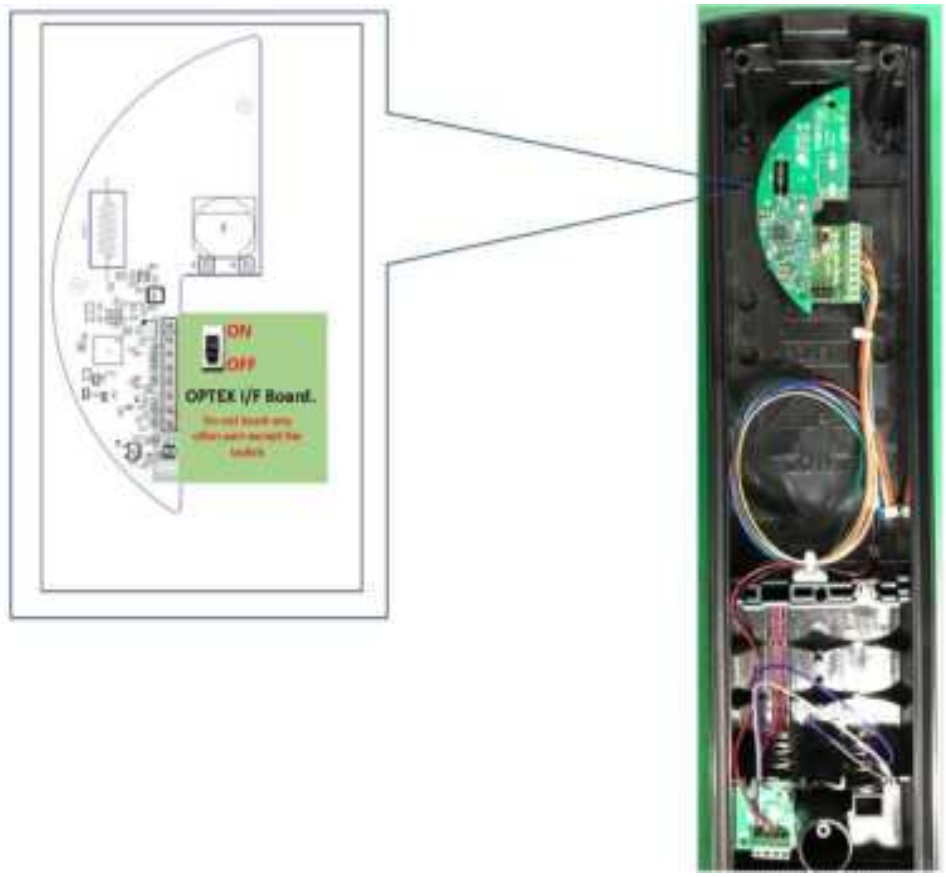
The device is compatible with the following panels:

- PowerSeries NEO (v1.37 and higher)
- PowerSeries Pro (v1.31 and higher)
- IQ2 (v2.6 and higher)
- IQ3 (v3.0 and higher)
- IQ4 (v4.0 and higher)
- PowerSeries NEO2 / Lucy Hybrid v1.0

The device transmitter and receiver enrol separately onto the control panel. The modules can enrol onto the panel in any order.

Enrolling the device

The device begins the enrolment process when the OPTEX RF module is powered on. The OPTEX RF module is a card in the detector.



1. Install batteries in the detector.
2. Turn the RF module power switch located on the interface board to the ON position.

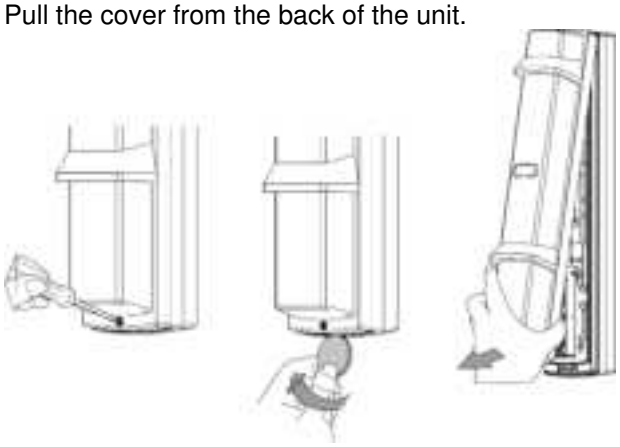
Refer to the control panel installation manual for the complete set of enrolment instructions and testing procedures. The enrolment procedure should begin automatically if the panel is already in enrolment mode. If the automatic enrolment procedure fails, refer to the control panel instructions and attempt manual enrolment of the device.

Installation

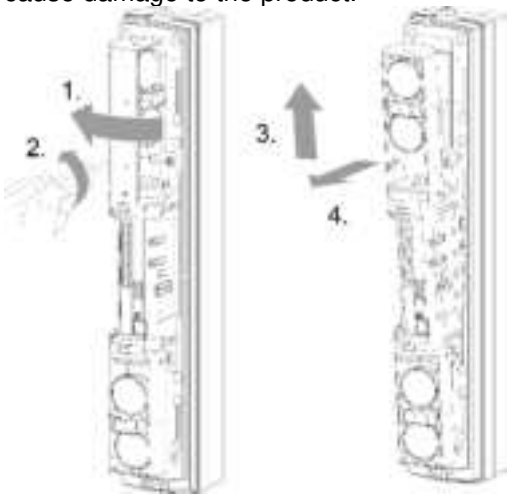
Separating the unit

1. Loosen the cover lock screw with a screwdriver.
2. Place a coin in the recess and twist slightly to remove the cover.

3. Pull the cover from the back of the unit.



4. To remove the main unit from the chassis, turn the optical unit 90° and remove the screws from both sides.
5. Pull the upper part of the main unit forward and up to remove it.
   Caution: Do not place the main unit where it is exposed to direct sunlight. Doing so may cause damage to the product.

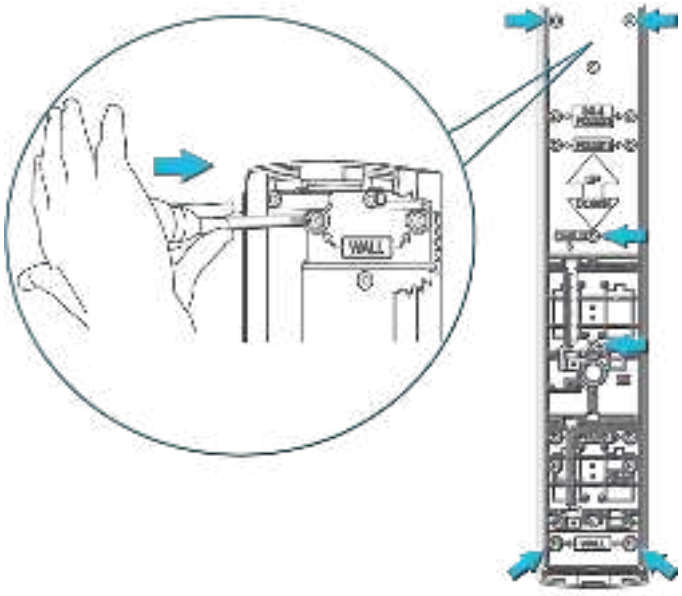


6. Remove the chassis from the back box.
   Note: The screws to secure the back box cannot be removed from the chassis.
   Caution: When the waterproof packing is detached, attach it to the back of the chassis before mounting. Not doing so may compromise the IP rate of this product.

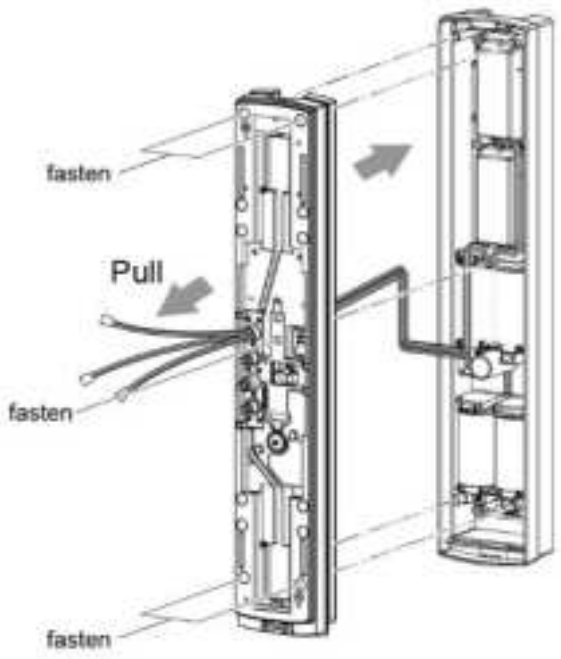
Notes:
Avoid installing the transmitter and receiver facing each other through the corner of the cover. While doing this installation, the maximum detection range must be half of the original detection range to compensate the attenuation of beam by the corner of the cover.

Mounting on a wall

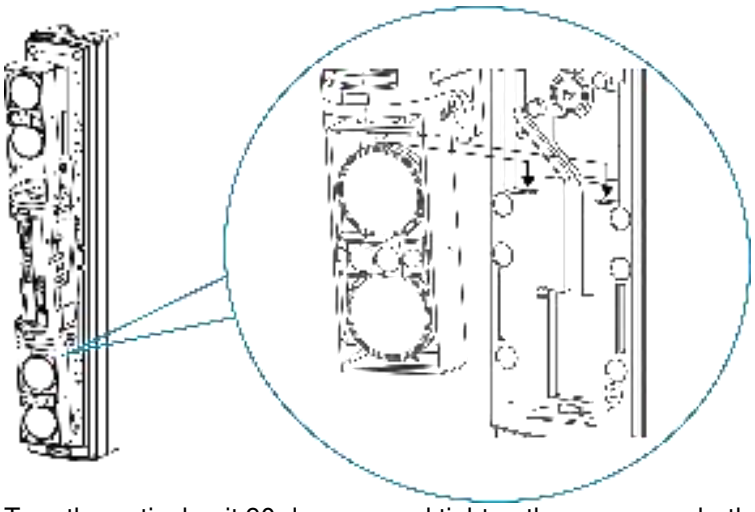
1. Using a screwdriver or similar tool, break the six knockouts in the back box.
   Note: The knockout positions are marked **WALL**.



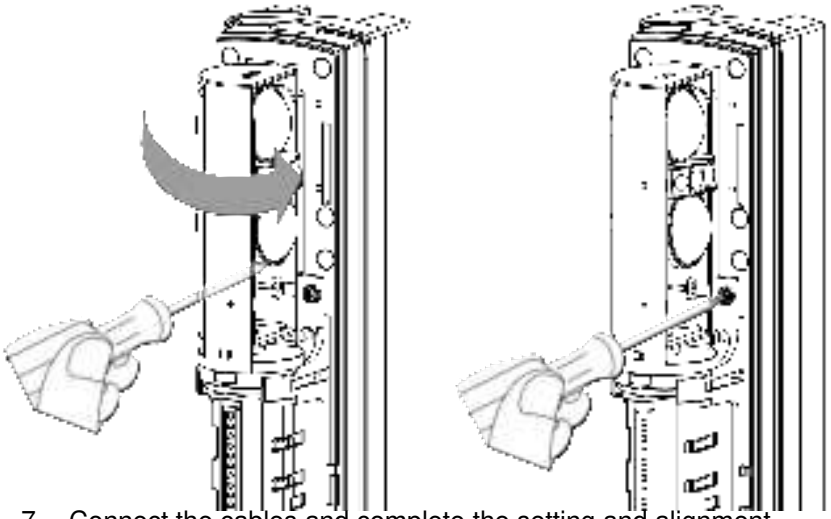
2. Mount the back box to the wall. If two detectors are installed, the distance between the upper and lower detector should be at least 20 mm. If mounting in a corner location, ensure the distance from the side wall is at least 1 m. Use a pitch of 83.5 mm when connecting to a gang electric box.
3. Insert the batteries into the back box.
   Note: Use of batteries other than recommended may shorten the battery life.
   Caution: Remove all batteries prior to replacing with new ones. If this is not followed, the low battery indicator LED will not reset and continue to blink.
4. Pull the cable through the chassis and tighten the screws.
   Caution: Tighten the screws completely by torque of 1.0 - 1.5 N·m. Not doing so may cause malfunction of the wall tamper.
   Avoid cables from being caught between chassis. When the waterproof packing is detached, be sure to attach it on the back of the chassis before mounting. Not doing so may compromise IP rate of this product.



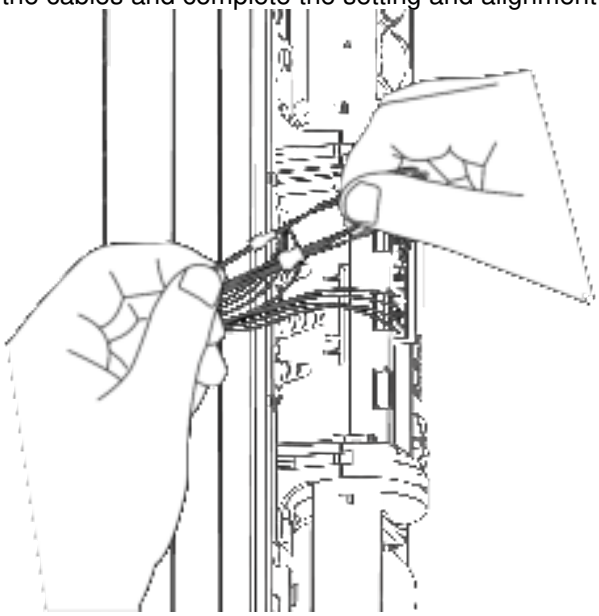
5. To fix the main unit onto the chassis, insert the lower part, and then push the upper part onto the chassis.



6. Turn the optical unit 90 degrees and tighten the screws on both sides.



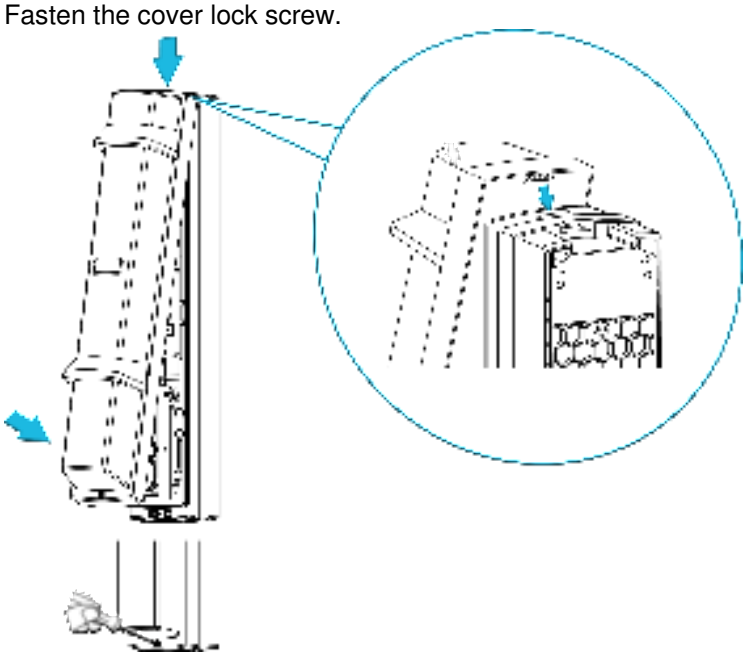
7. Connect the cables and complete the setting and alignment



8. To close the cover, hook on the upper part of the chassis and push the lower part of the cover until it clicks into position. **Caution**: Do not contact with the optical unit when mounting the

cover. Otherwise malfunction may occur due to the shift of the optical axis, resulting in the need of readjustment.

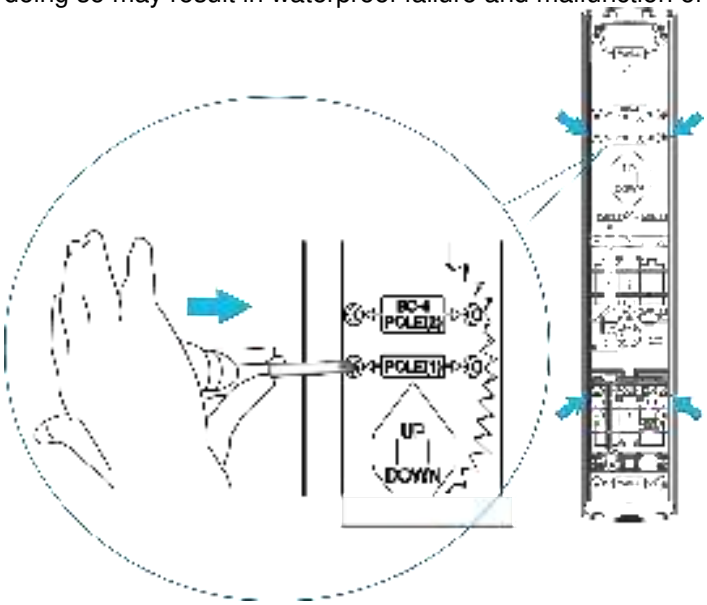
9. Fasten the cover lock screw.



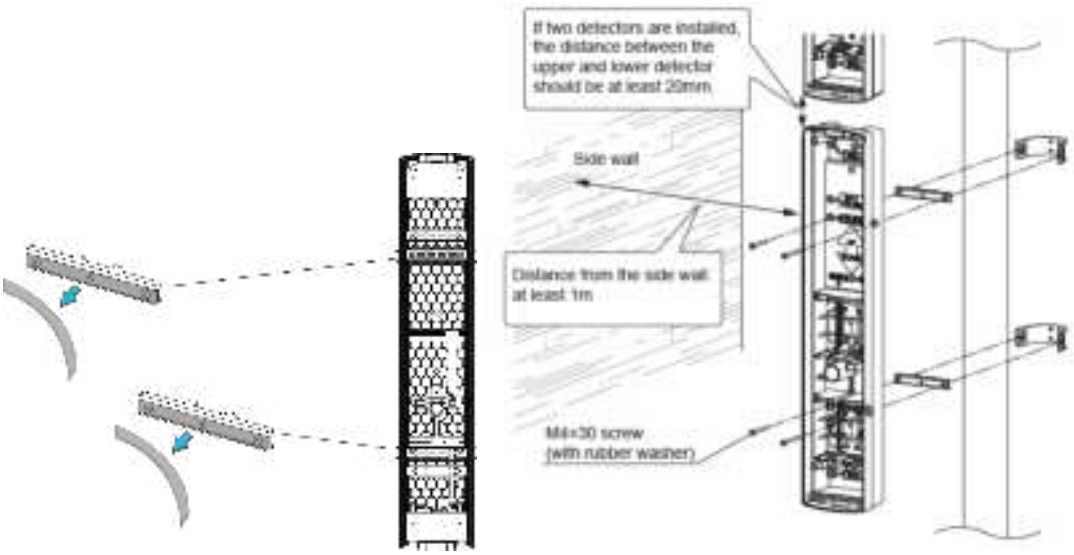
Notes: Ensure the cables do not get caught between the main unit and the cover.
Push the middle part of the cover to hide the orange label completely when in operation.

Mounting on a pole

1. Using a screwdriver or similar tool, break the four knockouts marked **POLE** on the back box.
   Note: When mounting the single set of detectors to the pole, use a pair of the inside knockouts. The knockout positions are marked **POLE(1)**.
   Caution: If you accidentally open an unnecessary knockout, be sure to fill the knockout. Not doing so may result in waterproof failure and malfunction of the product.



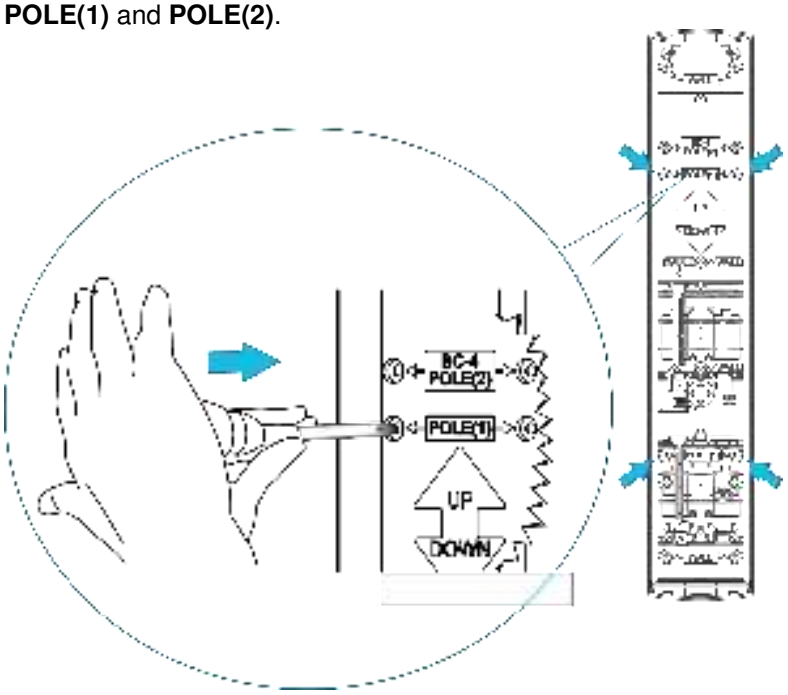
2. Fix the back box on the pole. If two detectors are installed, the distance between the upper and lower detector should be at least 20 mm. If mounting in a corner location, ensure the distance from the side wall is at least 1m.
3. Temporarily attach the pole mounting bracket to the back of the back box with double-sided tape. This makes it easier to mount the unit with the combinations of the brackets.



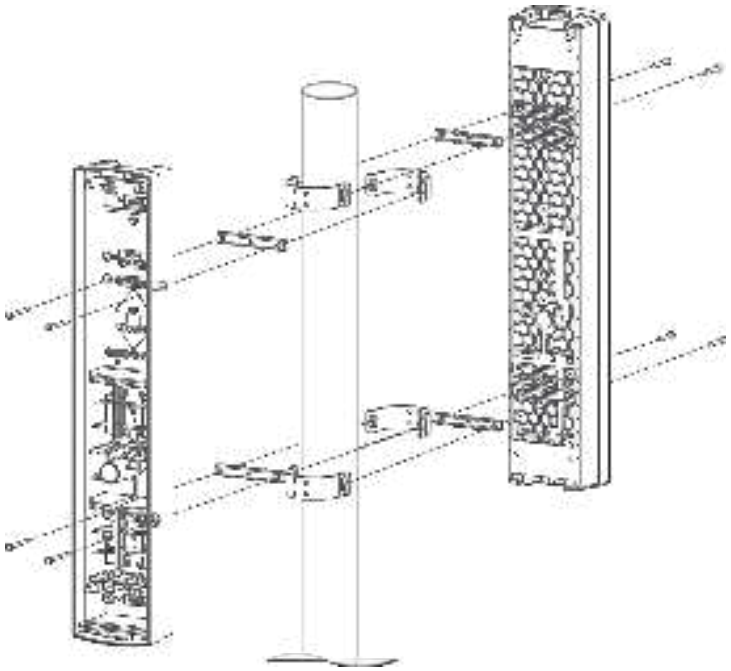
4. Insert the batteries into the back box.
   Note: Use of batteries other than recommended may shorten the battery life.
   Caution: Remove all batteries prior to replacing with new ones. If this is not followed, the low battery indicator LED will not reset and continue to blink.
5. Run the cables so that they are not pinched between the chassis and back box.
6. Pass the cables through the wiring hole of the chassis and mount the chassis to the back box.
7. Tighten the screws.
   Caution: Tighten the screws completely by torque of 1.0 - 1.5 N·m. Not doing so may cause malfunction of the wall tamper.
   Avoid cables from being caught between chassis. When the waterproof packing is detached, be sure to attach it on the back of the chassis before mounting. Not doing so may compromise IP rate of this product.
8. To fix the main unit onto the chassis, insert the lower part, and then push the upper part onto the chassis.
9. Turn the optical unit 90 degrees and tighten the screws on both sides.
10. Connect the cables and complete setting and alignment (see Wiring).
11. To close the cover, hook on the upper part of the chassis and push the lower part of the cover until it clicks into position. **Caution**: Do not contact with the optical unit when mounting the cover. Otherwise malfunction may occur due to the shift of the optical axis, resulting in the need of readjustment.
12. Fasten the cover lock screw.
    Notes: Ensure the cables do not get caught between the main unit and the cover.
    Push the middle part of the cover to hide the orange label completely when in operation.

Installing two detectors in opposing directions

1. Using a screwdriver or similar tool, break the four knockouts on the back box.
   Note: Choose a different pair of knockouts. Pairs of the knockout positions are marked **POLE(1)** and **POLE(2)**.



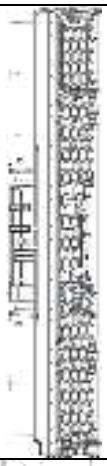
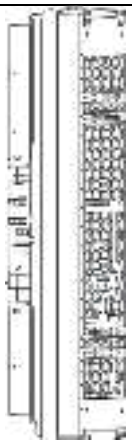
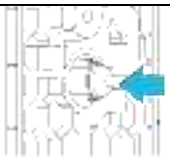
2. Fix the back box on the pole. Double-sided tapes attached to the pole mounting brackets make it easier to mount the unit with the combinations of the brackets.



3. Perform the wall mounting procedure steps 4 to 9.

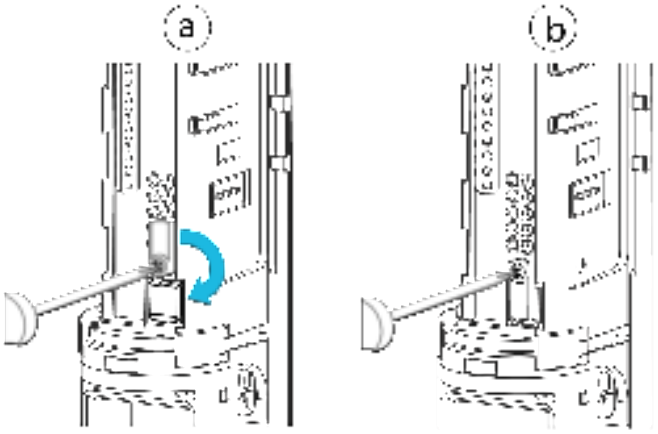
Mounting the detector in the beam tower

1. Select a mounting pattern from the following options:

	Main unit	Main unit plus chassis	Main unit plus chassis plus back box
Mounting pattern			
Tamper position			

Caution: When using the tamper output, install the detector with the tamper shown above being pressed. Not doing so may cause malfunction of wall tamper.

2. When installing the detector without the cover, lock the tamper button with the tamper lock plate on both the transmitter and receiver.
    a. Loosen the screw and rotate the tamper lock plate.
    b. Fasten the screw to lock the tamper button.

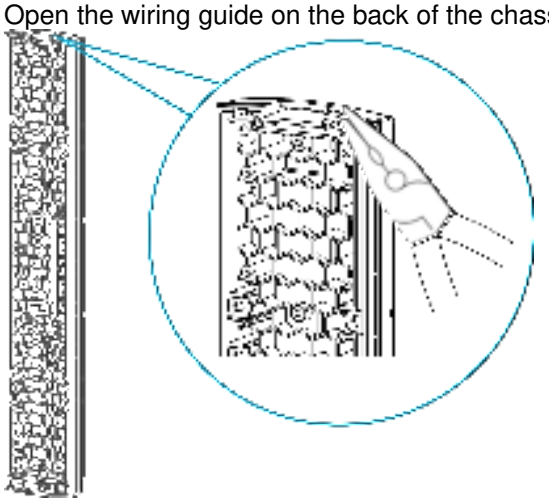


Caution:

- The switch selection is not recognized when locking the tamper button. Release the tamper button before selecting a function using the switch.
- After completing the settings, be sure to lock the tamper button to check that all LEDs are OFF. If the tamper button is not locked, the LEDs are kept ON, which consumes more battery power.
- The monitor jack output is disabled when the tamper button is locked.
- When locking the tamper button, the beam alignment test point will be disabled. Complete the alignment procedure before locking the tamper button.

Mounting the detector separate from the back box in the beam tower

1. To remove the waterproof packing, remove the two screws fixing the waterproof packing.
2. Open the wiring guide on the back of the chassis using pliers.

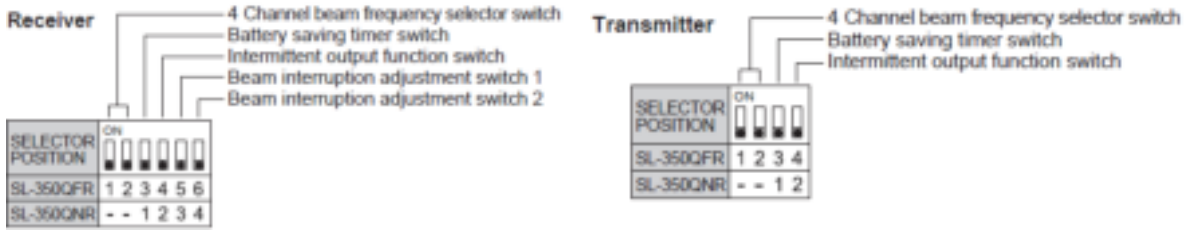


3. Fix the back box and main unit.

Wiring

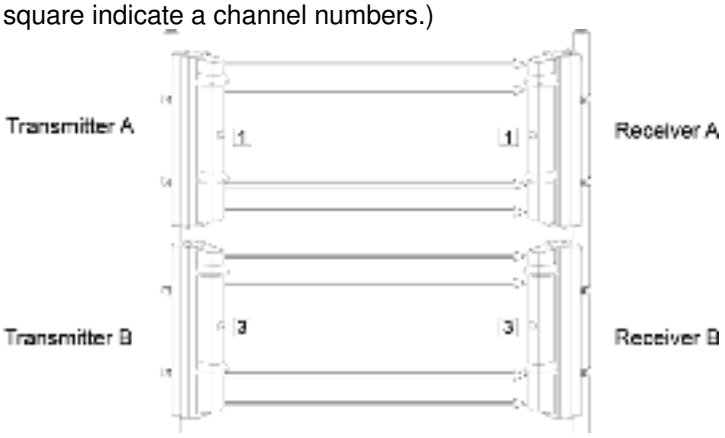
This product is provided with wiring based on the assumption that N.C. wireless transmitters are used. Connect the cables from the back box (Yellow/Yellow-white, Green/Green-white, and Black/Black white) to the respective terminals on the wireless transmitters.

Functional settings

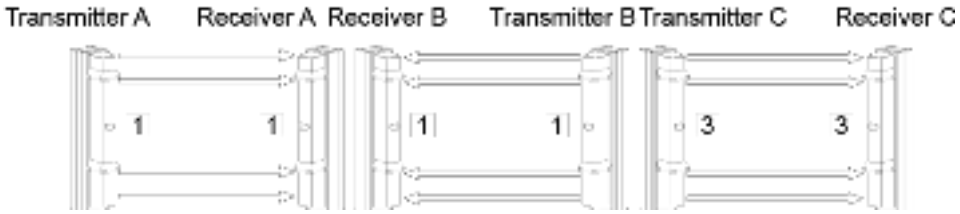


Receiver DIP switch
4 Channel beam frequency selector switch
Battery saving timer switch
Intermittent output function switch
Beam interruption adjustment switch 1
Beam interruption adjustment switch 2
Transmitter DIP switch
4 Channel beam frequency selector switch
Battery saving timer switch
Intermittent output function switch
4 channel beam frequency selector
The 4 channel beam frequency selector can be used to avoid unwanted crosstalk that can occur when using multiple photoelectric detectors for long distance or beam stacking applications.
• To select between 4 separate beam frequencies, use the switch provided.
• Make sure the receiver and transmitter that are facing each other are set to the same channel.
• More than double stacked application is not possible
Always switch the frequencies two channels apart when stacking units on top of one another. The upper unit is set on channel 1 while the lower is on channel 3, channels 2 and 4 could have also been used.
Examples:

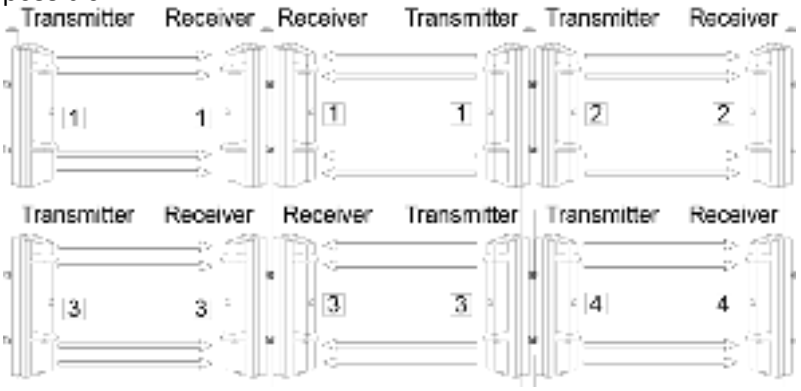
a. Double stacked protection. Since Receiver B may receive the infrared beam from Transmitter A, select the frequencies as shown in the figure above. (In the figure, each number in the square indicate a channel numbers.)



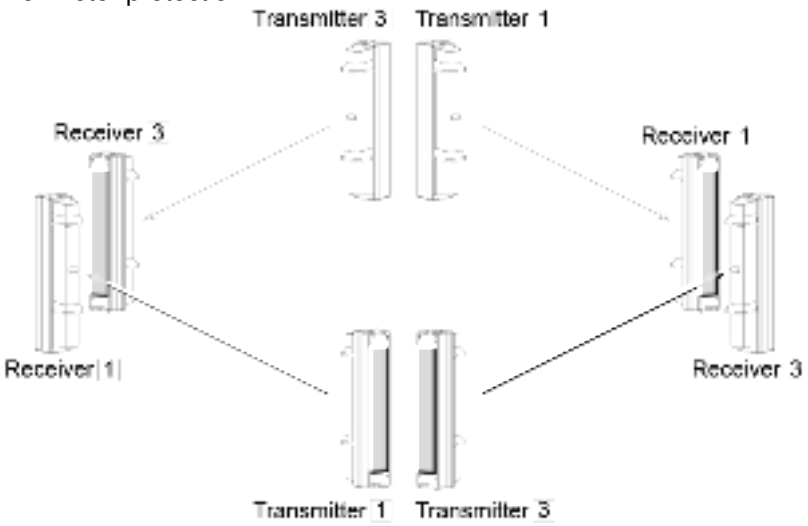
b. Long distance protection. Since Receiver C may receive the infrared beam from Transmitter A, select their frequencies as shown in the figure below.



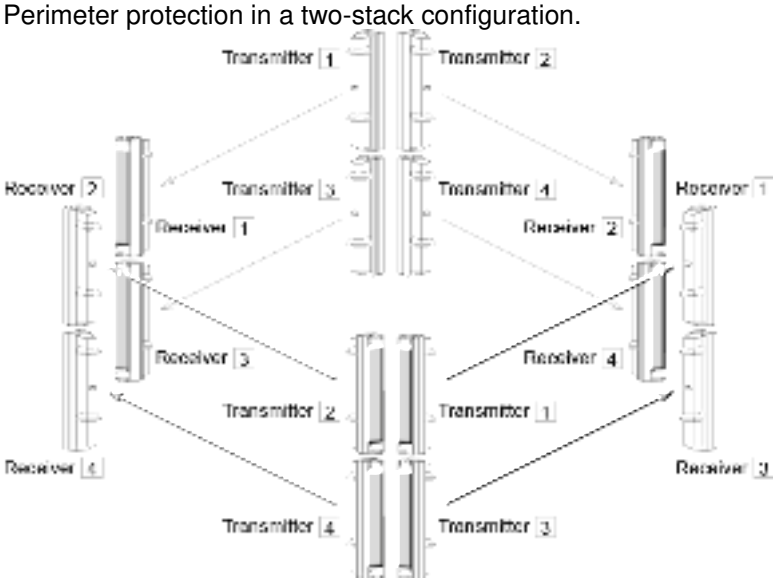
c. Double stacked long distance protection. More than double stacked application is not possible.



d. Perimeter protection.



e. Perimeter protection in a two-stack configuration.

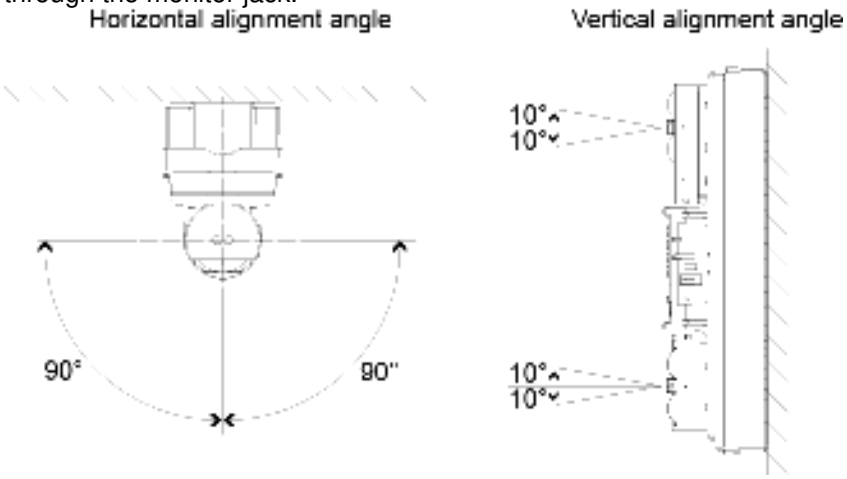


Warning:

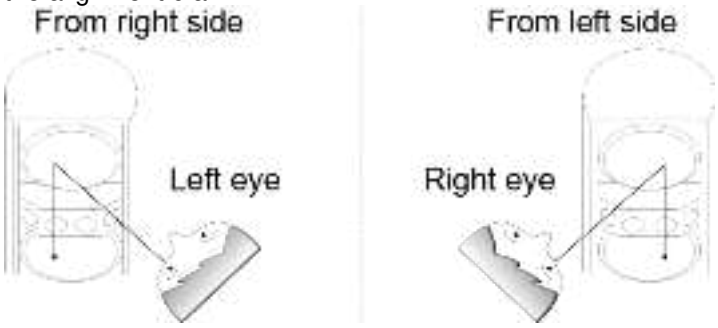
- Do not attempt to install this product with any other photoelectric detector. It may cause the detector to
  fail or not respond to movements. If the receiver of this product receives the beam from the wired photoelectric detector, it may cause false alarms.
- If you install the battery-operated photoelectric detector with Optex hard-wired photoelectric detector at the same site, ensure that the hard-wired transmitter cannot affect any other battery-operated receivers for avoiding cross talk between photoelectric detector.

Optical alignment

Optical alignment is an important procedure to increase reliability.
Be sure to take alignment step 1 through 5 described below to attain the maximum level of the output through the monitor jack.

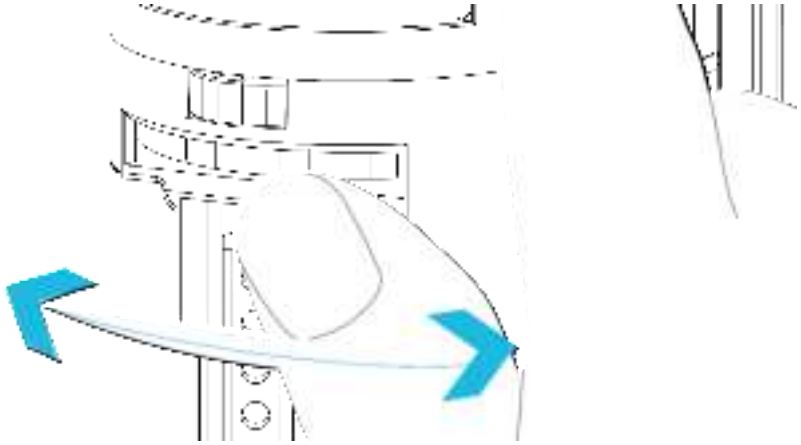


1. Perform rough alignment of the horizontal angle.
   Notes:
   - Mount a beam blocking plate to the lower unit and then start optical alignment from the upper unit.
   - Beam blocking plate is attached on the back of the cover.
   - Return the beam blocking plate to the cover after use.
2. Look into the viewfinder and perform fine alignment of the horizontal and vertical angles using the alignment dial.



Note: Check the diagram below and perform fine alignment for both horizontal alignment and vertical alignment. Turn the small dial for horizontal alignment. Turn the large dial for vertical alignment.

- Clockwise: Upward
- Counterclockwise: Downward



Warning: Do not look at strong light sources such as sunlight through the viewfinder.
Caution: Do not touch the lens during optical adjustment.

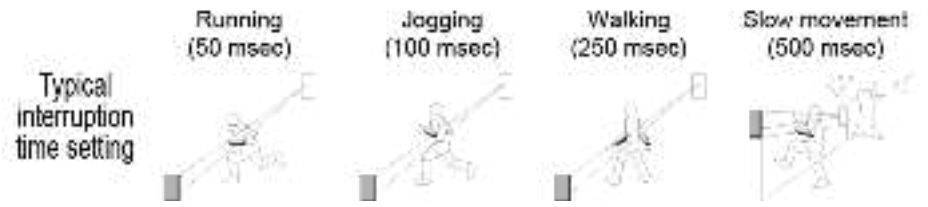
3. After the alignment using the viewfinder, make adjustment with the voltmeter for more accurate optical alignment.
   Set the voltmeter range to 5 to 10 VDC.
   After checking the receiving level of optical axis by using the Level indicator LED, make sure to make fine alignment for both transmitter and receiver with voltmeter to achieve a monitor output level of "Excellent". Insert the voltmeter's positive pin into the positive terminal of the monitor jack, and the negative pin into the negative terminal.
4. Adjust the horizontal and vertical angles while checking the light receiving status by Alarm indicator LED on the pairing receiver.

Level indicator LED	**Light interrupted**	**Light received**				
	ON (red)	Fast blink	Slow blink	OFF		
Adjustment level	Re-adjust angle			Fair	Good	Excellent
Monitor jack output	0 V			> 1.0 V	> 2.4 V	> 2.8 V

Caution: The Alarm indicator LED is a supporting tool for easy alignment. Be sure to perform fine alignment to ensure the maximum output level through the monitor jack.
The Level indicator LED should only be used for rough alignment, for fine alignment always use the monitor jack output level.

5. Complete steps 1 to 4 for the lower transmitter.

Optional: Adjusting the beam interruption
Initial setting is at 50 ms for normal work. According to the speed of a supposed target you select one specific setting out of 4 steps. Set the beam interruption adjustment switches of the Receiver according to the speed of the human object to detect.



Optional: Setting the battery saving timer

Alarm output activation is limited to 2 minutes by a timer. Even if there are continuous alarm events, the alarm output operates only once in the timer period.

Caution: Remove **all** batteries prior to replacing with new ones. If this is not followed, the low battery indicator LED will not reset and continue to blink.

Optional: Setting the intermittent output function
When wireless configuration is being used, which is unable to determine whether the alarm output continues, setting the intermittent output function to the “ON” position, turns on the intermittent alarm output. This configures the wireless transmitter to send alarms at a specific time intervals.

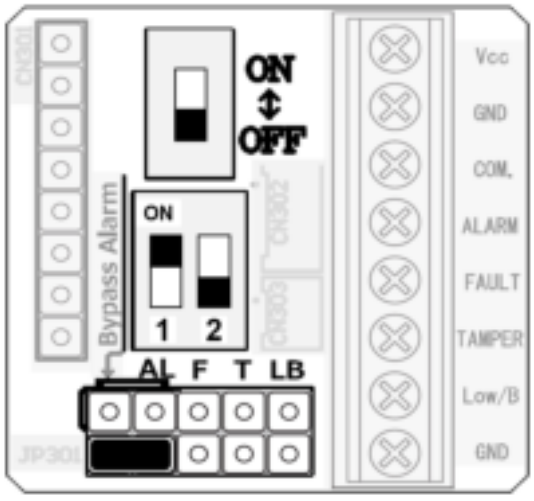
- Alarm output: 1 output/ 1 minute
- D.Q. output: 1 output/ 1 minute
- Low battery output: 1 output/ 5 minutes

Optional: D.Q. output (environmental disqualification)
The D.Q. output features detects when the beam strength is below acceptable levels due to environmental factors such as heavy rain, snow, or fog. If the beam strength is low for more than 20 seconds due to these conditions, a D.C. output signal sends from the receiver. The signal will return to normal when the beam strength is at acceptable levels for more than 2 seconds.

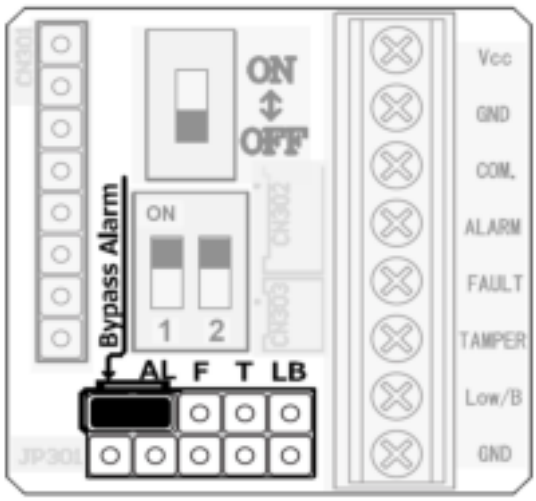
The D.C. output signal can be configured for one of the following uses:

- **Separate Output**: Alerts the user that the detector is not working effectively due to weather conditions
- **Bypass**: This bypasses the alarm when the D.Q. output is triggered by adverse weather conditions.

You can configure either option with the following jumper pin settings on interface board of the Receiver:



D.Q. and Alarm Separate Output



Bypass Alarm Setting

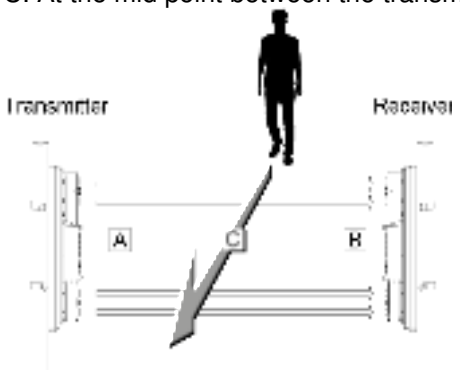
Checking the LED operation

	Detection (beam interruption)	Normal	Low battery power
Alarm (receiver)	ON	OFF	—
Power (transmitter)	ON	ON	—
Low battery (receiver and transmitter)	—	—	Blink

Checking the transmitter operation

After installation is complete to check the operation.

1. Turn off the battery saving mode.
2. Make sure that the alarm indicator is off. If it is illuminated even when the beams are not blocked, make optical alignment again.
3. Check that the low battery indicator LEDs on both transmitter and receiver are OFF. If the indicator LED is blinking, the battery power is low. Replace with the new batteries.
4. Conduct a walk test to check that Alarm indicator LED on the receiver turns ON as the walker interrupts the beams. Be sure to conduct a walk test at the following three points:
   A. In front of the transmitter
   B. In front of the receiver
   C. At the mid point between the transmitter and receiver



The detector is installed properly when Alarm indicator LED turns ON in the tests at all the three points.

Caution:

For battery power savings, perform the operation check before checking the following items.

(1) When installing on a wall or pole, make sure the cover is properly attached to main unit.

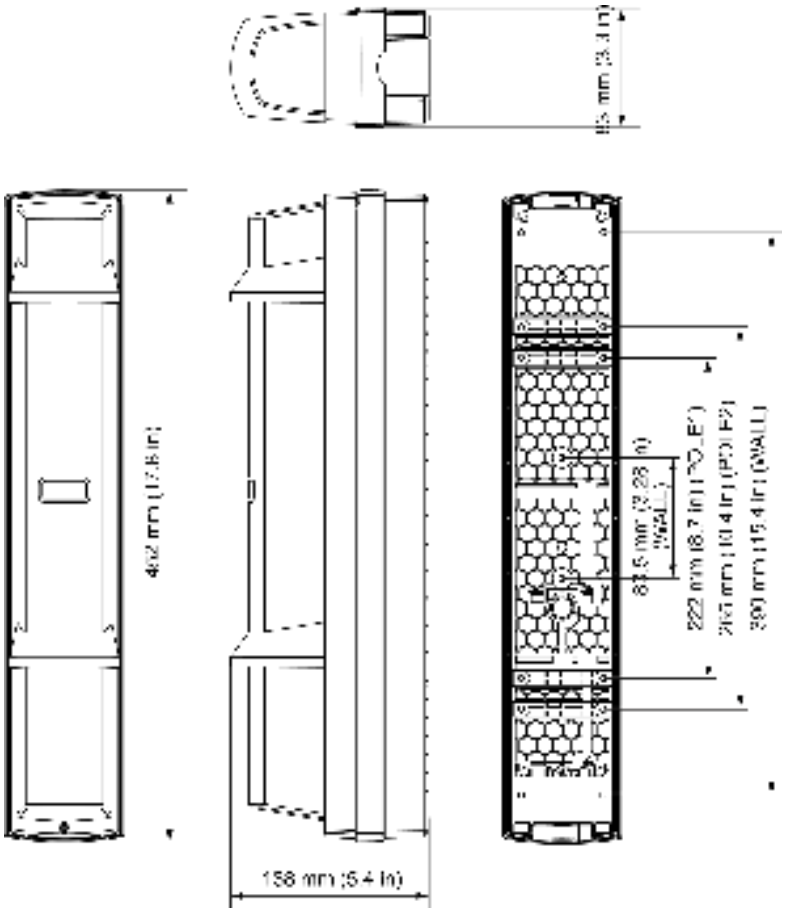
(2) When installing in a beam tower, make sure the tamper bushing is properly attached to main unit.

Troubleshooting

Problem	Possible cause	Corrective action
LEDs are not Illuminated (transmitter or receiver)	Reversed battery polarity	Check battery polarity
Low battery indicator blinks even though the battery has been inserted (transmitter or receiver)	Reversed battery polarity	Check battery polarity
Alarm is not output	Reflection from the floor or wall.	Align beams away from thefloor or wall.
	Beam has not been blocked.	Block all four beams.
Alarm is kept output	Channels of transmitter and receiver are different.	Set the same channel to both transmitter and receiver
	Multiple photoelectric detector for long distance or beam stacking applications.	Set channels 1-3 or 2-4 or 1-4.
	Optical alignment was not performed properly.	See Optical alignment.
Batteries are going flat too quickly	Tamper button has not performed properly.	Set the cover of the tamper lock plate properly.
Frost, snow or heavy rain causes false alarm.	Optical alignment not optimized.	See Optical alignment and make realignment.
Improper output	The wiring is incorrect.	Correct the wiring.
Wall tamper does	Screws between the	Tighten screws completely.

not activate.	chassis and the back box are loose.	
	The waterproof packing on back box is misplaced.	Remove chassis from the back box and align the waterproof packing onto the chassis.

Dimensions



Specifications

GENERAL

Maximum detection range 100 m/350 ft.
Maximum arrival distance 1000 m/3500 ft.
Detection method Quad infrared beam interruption detection
Selectable beam frequency 4 channels
Interruption time Variable between 50/100/250/500 ms (4 steps)
Power source Recommend: 3.6 V, 13.0 Ah LSH20 lithium batteries manufactured by SAFT.
Current draw 745 µA Transmitter: 420 µA + Receiver: 325 µA (at 25°C, 3.6 VDC)
Battery life Transmitter: Approximately 4 years. Receiver: Approximately 5 years
Operating temperature -20°C - +60°C (-4°F - 140°F)
Operating humidity 95 % (max.)
Alignment angle ±90° Horizontal, ±10° Vertical
Dimension H x W x D mm (inch): 452 (17.9) x 83 (3.3) x 138 (5.4)
Weight 3300 g (Total weight of Transmitter + Receiver, excluding accessories)
International protection IP65
Frequency 915 MHz
Supervisory transmission frequency: 433 MHz / 868 MHz/915 MHz 128/256 second intervals
Maximum Tx power: 433.22 MHz - 434.64 MHz: 10 mW/10 dBm, 868.0 MHz - 868.6 MHz: 25mW/14dBm, 868.7 MHz - 869.2 MHz: 25mW/14dBm

OUTPUT
Alarm output Form C-Solid State Switch: 3.6 VDC, 0.01 A
Alarm period 2 sec (±1) (Nominal)
D.Q output Form C-Solid State Switch: 3.6 VDC, 0.01 A (Receiver only)
Low battery output N.C. (Solid State Switch): 3.6 VDC, 0.01 A
Tamper output (cover, back box, main unit) N.C. (Mechanical Switch): 3.6 VDC, 0.01 A. Opens when cover, main unit
or back box is removed.
INDICATOR
Alarm indicator (Receiver) Alarm: ON Light receiving: OFF
Level indicator (Receiver) Not Light receiving: OFF Light receiving: Blinking or OFF
Power indicator (Transmitter) Power ON: ON Power OFF: OFF
Low battery indicator Voltage reduction: Blinking

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. (LSH-20 x2 pcs)
** Using batteries other than those recommended may shorten the battery life.

Note: These units are designed to detect an intruder and activate an alarm control panel; they are part of a complete system, therefore the manufacturer cannot accept responsibility for any damages or other consequences resulting from an intrusion.

Compliance with standards

USA: FCC- CFR 47 Part 15
UL639, UL1023

Canada: IC RSS – 247
ULC-S306, ULC-S304
ISED Canada RSS247 Certification
CISPR32 Class B

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes :(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

To comply with FCC Section 1.1310 for human exposure to radio frequency electromagnetic fields and IC requirements, implement the following instruction:A distance of at least 20cm. between the equipment and all persons should be maintained during the operation of the equipment.Le dispositif doit être placé à une distance d'au moins 20 cm à partir de toutes les personnes au cours de son fonctionnement normal. Les antennes utilisées pour ce produit ne doivent pas être situés ou exploités conjointement avec une autre antenne ou transmetteur.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:Reorient or relocate the receiving antenna.Increase the separation between the equipment and receiver.Connect the equipment into an outlet on a circuit different

from that to which the receiver is connected.Consult the dealer or an experienced radio/TV technician for help.
- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

UL/ULC Notes
Only model PG9350SL operating in the frequency band 912-919MHz is UL/ULC listed. The PG9350SL has been listed by UL for commercial and residential burglary applications and by ULC for residential burglary applications
in accordance with the requirements in the Standards UL 639 and ULC-S306 for Intrusion Detection Units.
For UL/ULC installations use these devices only in conjunction with compatible DSC wireless receivers: HSM2HOST9, HS2LCDRF(P)9, HS2ICNRF(P) 9, PG9920, WS900-19, WS900-29, PowerSeries NEO (v1.37 and higher), PowerSeries Pro (v1.31 and higher), IQ2 (v2.6 and higher), IQ3 (v3.0 and higher), IQ4 (v4.0 and higher), IQ NEO and IQ PRO. After installation verify the product functionality in conjunction with the compatible receiver used.

FCC COMPLIANCE STATEMENT
WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:
– Re-orient or re-locate the receiving antenna.
– Increase the distance between the device and the receiver.
– Connect the device to an outlet on a circuit different from the one that supplies
power to the receiver.
– Consult the dealer or an experienced radio/TV technician.
FCC ID: F5321PG9350SL
Innovation Science and Economic Development Canada (ISED) Statement
This equipment complies with FCC and ISED Canada RF radiation exposure limits set forth for an uncontrolled environment.
This device complies with FCC Rules Part 15 and with ISED Canada license exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.
Le present appareil est conforme aux CNR d'ISED Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes :(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

To comply with FCC Section 1.1310 for human exposure to radio frequency electromagnetic fields
and IC requirements, implement the following instruction: A distance of at least 20cm. between the
equipment and all persons should be maintained during the operation of the equipment.
Le dispositif doit être placé à une distance d'au moins 20 cm à partir de toutes les personnes au cours de son fonctionnement normal. Les antennes utilisées pour ce produit ne doivent pas être situés ou exploités conjointement avec une autre antenne ou transmetteur.
IC: 160A-PG9350SL

The term IC before the radio certification number signifies that the Industry Canada technical specifications were met. This Class B digital apparatus complies with Canadian ICES-003. This device complies with RSS-247 of
Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the
device. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Ce dispositive satisfait aux exigences d'Industrie Canada, prescrites dans le document CNR-247. son utilisation est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Limited Warranty

Digital Security Controls warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfilment of any breach of such warranty, Digital Security Controls shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

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In no event shall Digital Security Controls be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

Warning: *Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.*

Important Information: *Changes or modifications not expressly approved by Digital Security Controls could void the user's authority to operate this equipment.*

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Always ensure you obtain the latest version of the User Guide. Updated versions of this User Guide are available by contacting your distributor.

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