



# PG9200AX

Battery-operated photoelectric detector

## Detector features

- PowerG wireless photoelectric beam detector
- Battery life for transmitter is approximately three years, battery life for receiver is approximately five years when using LSH20 (3.6V, 13Ah) batteries manufactured by SAFT
- Battery saving function for wireless transmitter
- Intermittent output function
- 4-channel beam frequency selector
- International protection IP55
- LED indicator for an easy alignment
- D.Q. circuit (environmental disqualification)
- Tamper
- Beam interruption adjustment function
- Outdoor detection range of 200 ft

## Introduction

The PG9200AX is a PowerG wireless photoelectric beam detector that provides protection for outdoor perimeters.

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

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

## Safety information

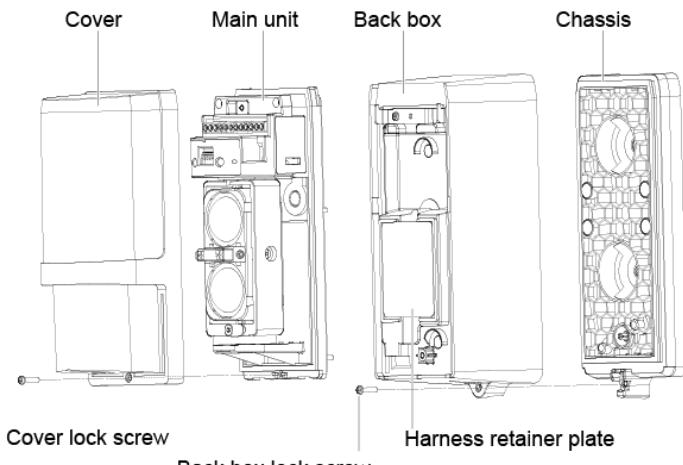
### Warnings

- 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 212°F (100°C), 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.

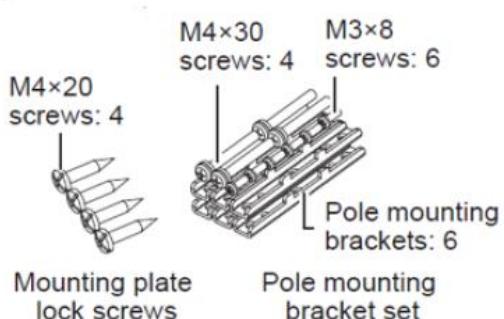
### Cautions

- 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.

## Parts identification



## Accessories



U-brackets: 2

## 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

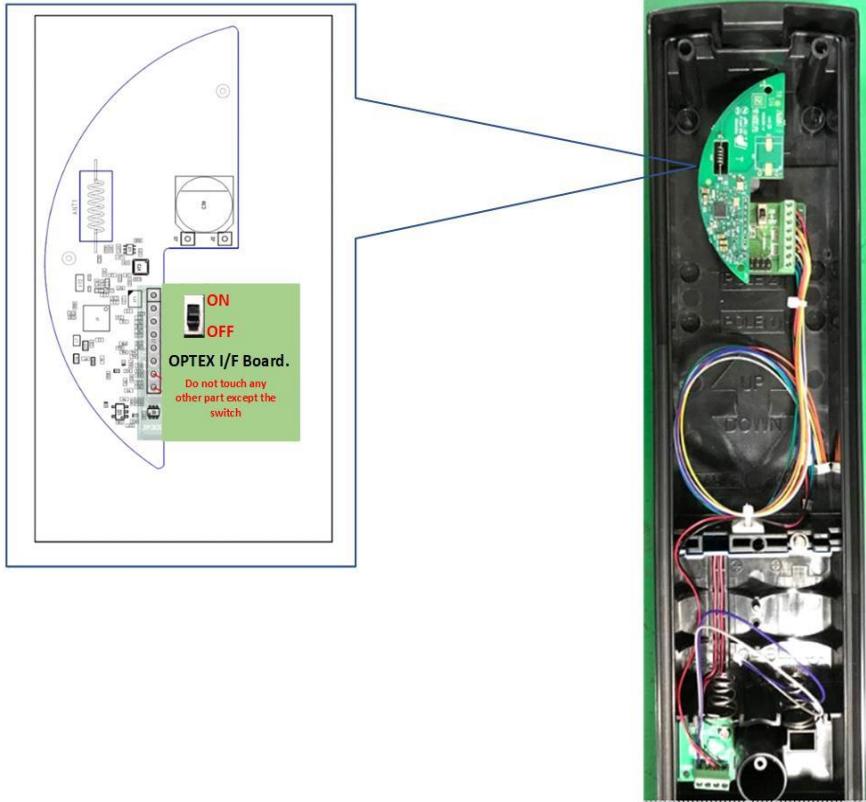
The device is compatible with the following panels:

- 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 are enrolled separately onto the control panel. The modules can be enrolled onto panel in any order. The device sends the PowerG enroll request on power up of the device.

## 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.

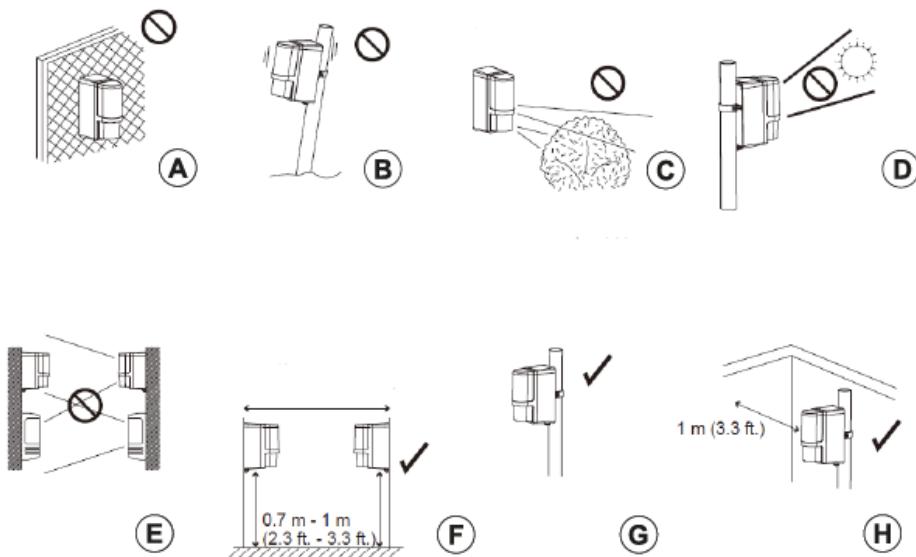


1. Install batteries in the detector.
2. Turn the RF module power switch to the ON position.

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

## Installation advice

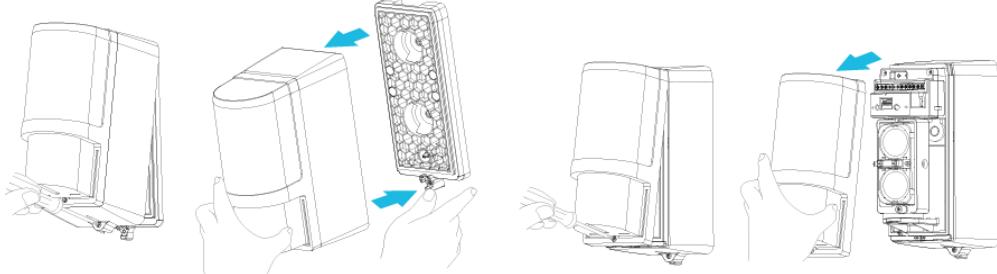


Callout	Description
A	Do not install the unit on an unstable surface
B	Do not install the pole in location where it is not stable.
C	Do not install the unit near trees or other objects that may block the beam.
D	Do not install the receiver in a location that is exposed to direct sunlight.
E	Do not install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

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

## Separating the unit

1. Loosen the back-box lock screw.
2. Press the tab on the bottom of the back unit.
3. Pull the cover from the back 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.

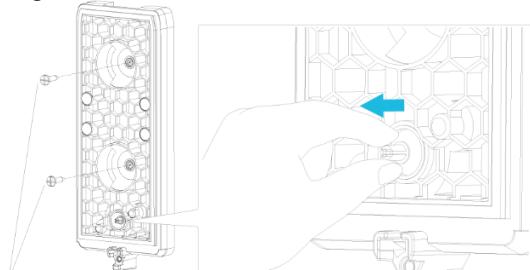
## Notes:

Avoid installing the transmitter and receiver facing each other through the corner of the cover.

In doing this installation, the maximum detection range shall be half of the original detection range. (This is to compensate the attenuation of beam by the corner of the cover.)

## Mounting on a wall

1. Loosen the back box lock screw.
2. Remove the chassis from the back box.
3. Use the supplied M4x20 wall mounting screws to fix the chassis to the wall.
4. Put two batteries in the battery enclosure within the back box.
5. Secure the back box to the chassis on the wall.
6. Tighten the back box lock screw.



**Caution:** After mounting the chassis, test the tamper bushing with your thumb and forefinger to ensure the tamper works properly.

## Settings

### Functional settings

All the following switch settings are factory default.

Receiver 1, 2: Beam interruption adjustment switch

Receiver 3: Battery saving timer switch

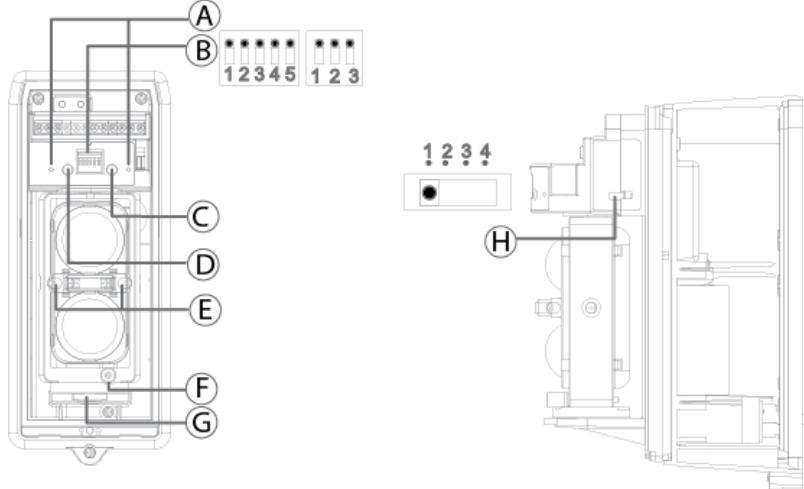
Receiver 4: Intermittent output function switch 5: N.C./N.O. selection switch

Transmitter 1: Battery saving timer switch

Transmitter 2: Intermittent output function switch

Transmitter 3: N.C./N.O. selection switch

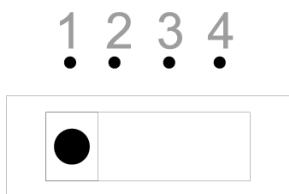
Transmitter 4 channel beam frequency selector



Callout	Component
A	Monitor jack (receiver only)
B	Switches
C	Receiver: Alarm indicator LED. Transmitter: Power LED
D	Low battery LED
E	View finder
F	Vertical alignment dial
G	Horizontal alignment dial
H	4-channel beam frequency selector

### 4-channel beam frequency selector

The 4-channel beam frequency selector is be used to avoid unwanted crosstalk that may occur when using multiple photo beams for long distance or beam stacking applications.



To select between 4 separate beam frequencies, use the switch provided.

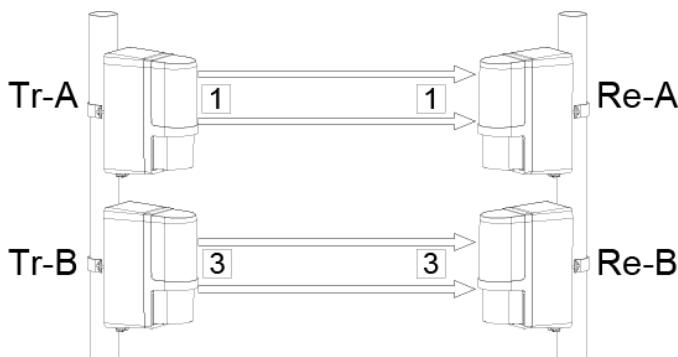
- Make sure the receiver and transmitter that are facing each other are set to the same channel.
- More than double stacked application is not possible.

**Note:** Always switch the frequencies two channels apart when stacking units on top of one another. See the following example. The upper unit is set on channel 1 while the lower is on channel 3, channels 2 and 4 could have also been used.

a) Double stacked protection

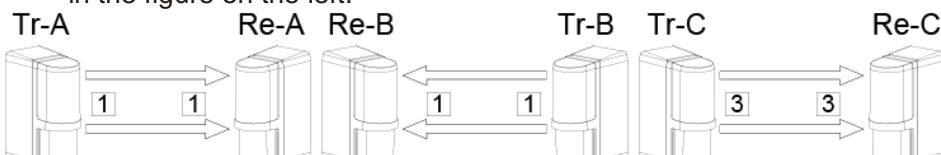
Because receiver B may receive the infrared beam from transmitter A, select the frequencies as shown in the figure. In the figure, each number in the square indicates a channel number.

Key	Component
Tr-A	Transmitter A
Re-A	Receiver A



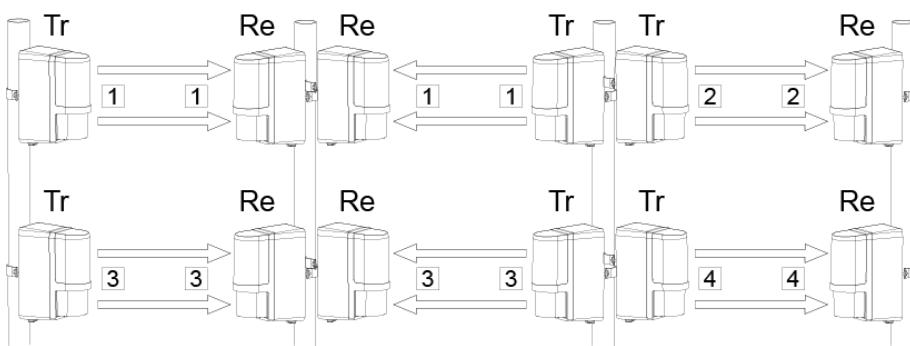
b) Long distance protection

Since Receiver C may receive the infrared beam from Transmitter A, select their frequencies as shown in the figure on the left.

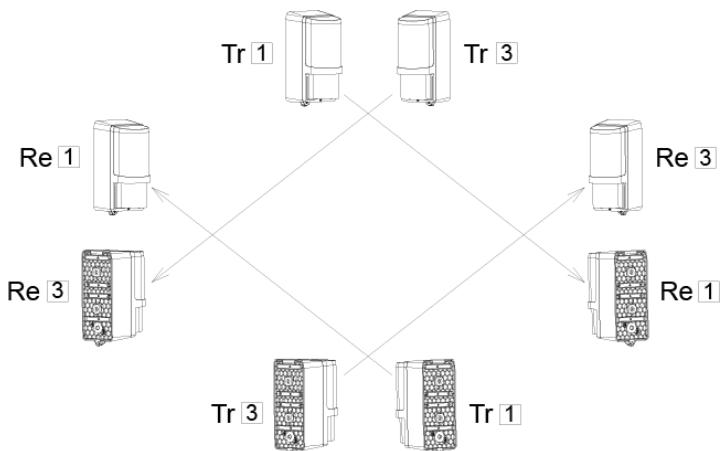


c) Double stacked long distance protection

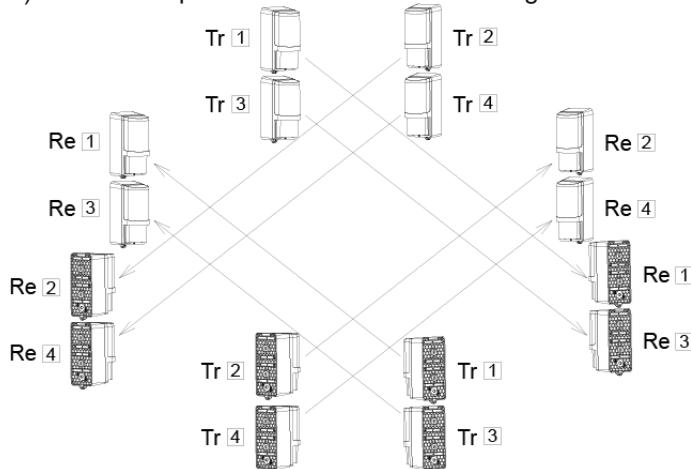
**Note:** More than double stacked application is not possible.



d) Perimeter protection



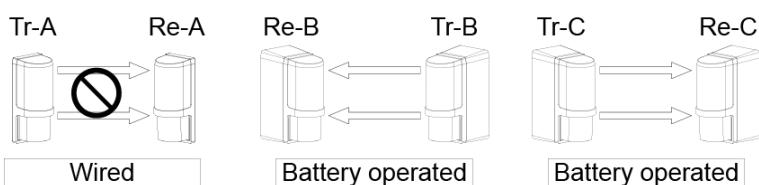
e) Perimeter protection in a two-stack configuration



#### Warning:

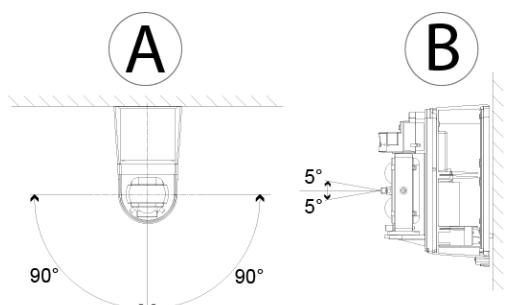
- Do not attempt to install this product with any other photoelectric detector. It may cause the detector to fail or not respond to movements.
- If the receiver of this product receives the beam from the wired photoelectric detector, it could be a factor of false alarm.
- If you install the battery-operated photoelectric detector with a 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.

This symbol indicates prohibition



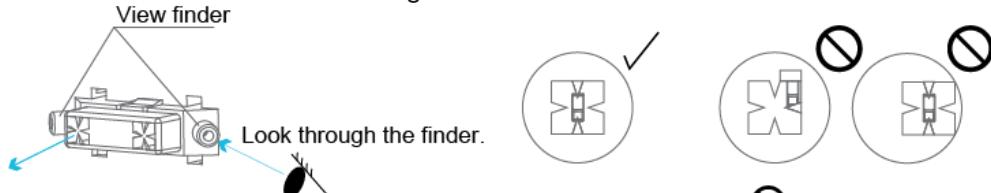
#### Optical Alignment

**Note:** Optical alignment is an important adjustment to increase reliability. Be sure to take adjustment steps 1 to 5 described below to attain the maximum level of the output through the monitor jack.

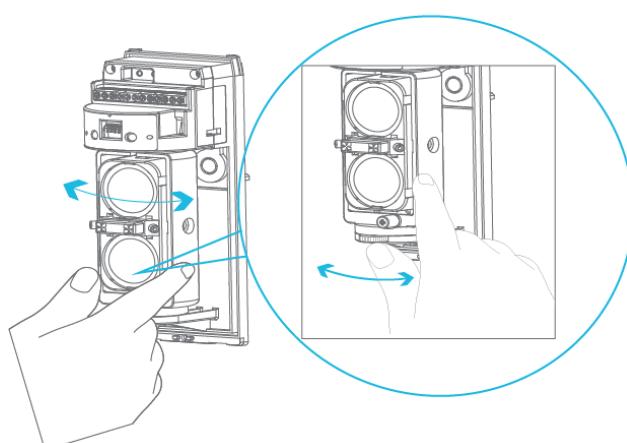


Callout	Component
A	Horizontal alignment angle
B	Vertical alignment angle

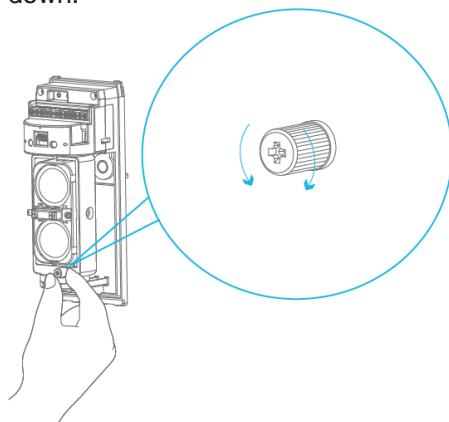
1. See **4-channel beam frequency selector** and set the 4-channel beam frequency selector.
2. While looking through the view finder, adjust the horizontal and vertical angles so that the pairing detector is at the center of the sight.



For fine alignment of the horizontal angle, turn the horizontal alignment dial. For rough alignment of the horizontal angle, hold and move the lens to the left or right.



For fine alignment of the vertical angle, turn the vertical alignment dial with a finger or Phillips screwdriver. Turn the dial clockwise to turn the lens up. Turn the dial counterclockwise to turn the lens down.

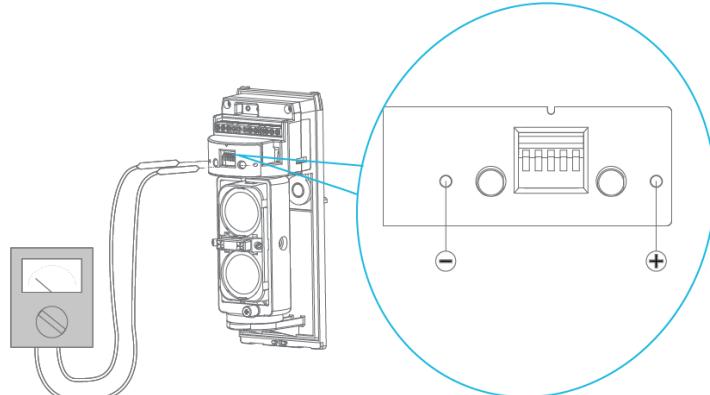


3. Adjust the horizontal and vertical angles while checking the light receiving status by Alarm indicator LED on the pairing receiver.

Level indicator LED	Light received			
	ON (red)	Fast blink	Slow blink	OFF
Adjustment level	Re-adjust angle		Fair	Good
Monitor jack output	0 V > 1.0 V > 2.0 V > 2.5 V			

**Caution:** The 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.

4. After checking by the alarm indicator, make finer alignment with the voltmeter for both the transmitter and the receiver. Insert each probe of the voltmeter. Set the voltmeter range to 5 to 10 VDC.



5. Continue the fine alignment until it reaches maximum monitor output over "good" level.

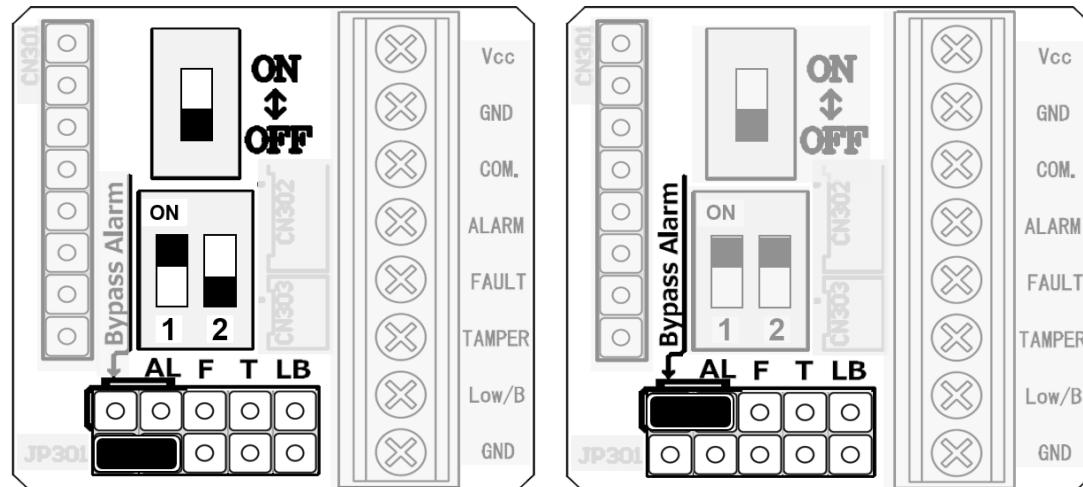
#### Optional: D.Q. output (environmental disqualification)

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:

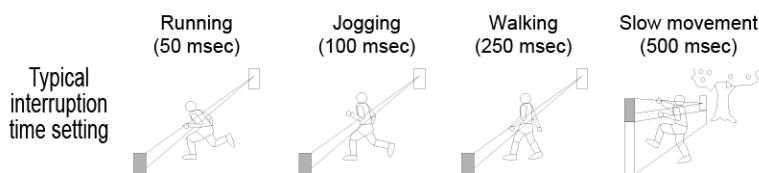


D.Q. and Alarm Separate Output

Bypass Alarm Setting

#### Beam interruption adjustment

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.

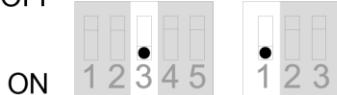


## Adjusting the output

### Setting the battery saving timer

Even if the following events are occurred frequently, each output is generated with the intervals as below to save the battery drain.

OFF    Receiver    Transmitter



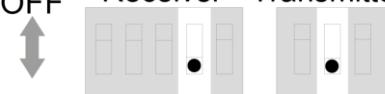
Function	Setting
Alarm output	1 output 2 minutes
DQ output	1 output 2 minutes
Low battery output	1 output 15 minutes

**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 flicker.

### Setting the intermittent output function

Set the intermittent output function to the on position to turn on the intermittent alarm output. This configures the wireless transmitter to send alarms at a specific time interval.

OFF    Receiver    Transmitter

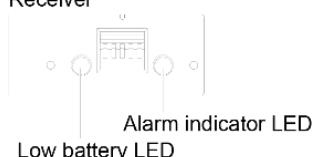


Function	Setting
Alarm output	1 output 1 minutes
DQ output	1 output 1 minutes
Low battery output	1 output 5 minutes

## Operation Check

### LED Indication

Receiver



DETECTOR STATUS	LED Indications
Power ON	The power LED turns ON.
Detection (beam interruption)	The alarm LED turns ON.
Low battery power	The low battery LED blinks.

### Operation Check

After installation is complete, check the operation.

1. See **Setting the battery saving timer** to turn OFF the battery saving mode.
2. Make sure that the alarm indicator is off. If it is illuminated when the beams are not blocked, set optical alignment again.
3. Check that the low battery indicators on both transmitter and receiver are off. If the LED is blinking, the battery power is low. Replace with the new batteries.
4. Conduct a walk test to check that the 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 midpoint between the transmitter and receiver

The detector is installed correctly when the 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.

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

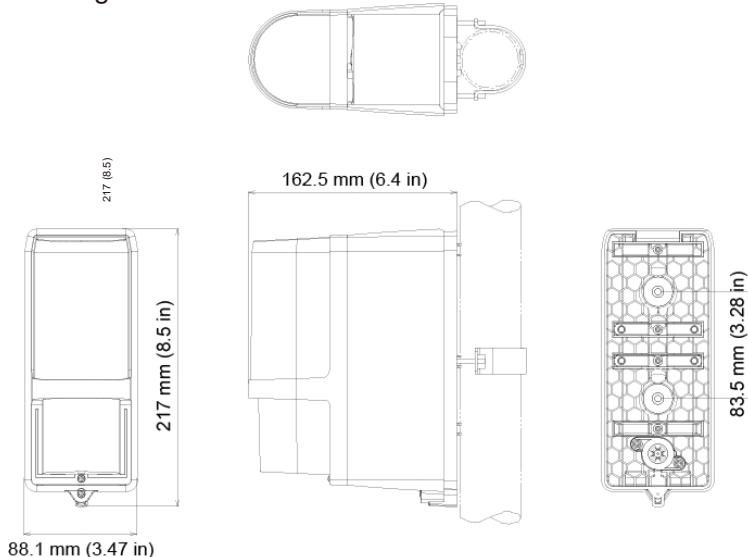
## Troubleshooting

If the alarm indicator LED is off or blinking when the beam is interrupted, complete the following steps:

- Align the optical axis again.
- In a multi-detector configuration, the receiver may be receiving the infrared beam from an unrelated transmitter. See **4-channel beam frequency selector** and check the 4-channel beam frequency selector setting.
- The beam from the transmitter may reach the receiver by reflecting off the floor or wall of a building. Good reflectors of visible light are also good reflectors of infrared beams. Remove the reflective objects around the detector or install the detector in a different place and then align the optical axis again.

## Dimensions

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



## Specifications

### GENERAL

**Range** 200 ft (60 m)

**Maximum arrival distance** 1740 ft (530 m)

**Detection method** Infrared beam interruption detection

**Beam frequency selection** 4 channels

**Interruption period** Variable between 50, 100, 250, 500 msec (4 steps)

**Power Source** 3.6 V 13.0 Ah: LSH20 lithium batteries manufactured by SAFT (not included) Transmitter: 2 units  
Receiver: 2 units

**Current draw** 810  $\mu$ A T: 490  $\mu$ A + R: 320  $\mu$ A (at 77 °F (25 °C), 3.6 VDC)

**Battery life** Transmitter: Approximately 4 years. Receiver: Approximately 5 years

### OUTPUT

**Alarm output** Form C-Solid State Switch: 3.6 VDC, 0.01 A

**Alarm period** 2 sec ( $\pm 1$ ) nominal

**D.Q. output** Form A/B-Solid State Switch: 3.6 VDC, 0.01 A

**Low battery output** Form A/B-Solid State Switch: 3.6 VDC, 0.01 A (Transmitter & Receiver)

**Tamper output for Front cover** Form C: 3.6 VDC, 0.01 A activates when cover removed. (Receiver only)

**Tamper output for Back box** Form C: 3.6 VDC, 0.01 A activates when either back box or chassis is removed from the installment.

**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

### INDICATORS

**Alarm Indicator (Receiver)** Light on - IR Beam not received. Flickering Light - IR Beams not received sufficiently. Light off - IR Beams received.

**Power (Transmitter)** Power ON: ON, Power OFF: OFF

**Low battery** Voltage Reduction: blink

**Operating temperature** -4°F to +140°F (-20°C to +60°C)

**Operating ambient humidity** 95% (Max.)

**Alignment angle**  $\pm 90^\circ$  Horizontal,  $\pm 5^\circ$  Vertical

**Weight** 56.4 oz (1600 g) (total weight of transmitter and receiver, excluding accessories)

**International protection** IP55

**Frequency** 915 MHz

Specifications and design are subject to change without prior notice.

## Compliance with standards

**USA:** FCC- CFR 47 Part 15

UL639, UL1023



**Canada:** IC RSS – 247

ULC-S306-03, ULC-S304:2016r1

ISED Canada RSS247 Certification

CISPR32 Class B

MTBF (915MHz)

MDVT (915MHz)

HALT (915MHz)

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 présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même 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 situées 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 numérique de la classe B est conforme à 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 PG9200AX operating in the frequency band 912-919MHz is UL/ULC listed. The PG9200AX 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: F5318PG9200AX

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 présent appareil est conforme aux CNR d'ISED Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même 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-PG9200AX

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 dispositif 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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