# About PGP-IOx

The PGP-IOx is a two-way wireless transceiver and magnetic contact device which comprises two general purpose inputs, two general purpose outputs (PGM), and an on-board reed switch (magnetic sensor). The built-in reed switch opens when the magnet is removed from the contact. The outputs can be converted into two additional inputs.

Each of the two general purpose inputs can be remotely configured as 'Normally-Closed', 'Normally-Open', 'End-of-Line' or 'Double-End-of-Line' input.

The general purpose outputs are designed for controlling apparatuses having dry-contact control inputs. These general purpose outputs can withstand up to 15VDC (OFF state, open loop) and are capable of sinking up to 1A (ON state, close loop).

The device is tamper protected, both front cover tamper and back mounting tamper.

Operating power is obtained from an on-board 3V Lithium battery. The battery voltage is monitored and reported when low battery conditions are detected.

The device has the following features:

- Dealer lock down
- Out of band enrollment
- Two-way PowerG communication with the control panel
- Front cover and back cover tamper detection
- Periodic supervision message is transmitted automatically to the control panel at regular interval
- Signal strength LED indication during installation
- Discreet transmission of supervision message
- PowerG two-way frequency hopping spread spectrum time-division multiple access (FHSS-TDMA) technology
- Battery reporting
- Low battery indication
- User-selectable operation of auxiliary input as Normally open, Normally closed, End of Line (EOL), or Double EOL
- Temperature sensing and reporting

# Installation guidelines

The reference to PGP-IOx throughout this manual includes the models PGP-IO8, PGP-IO9, and PGP-IO9MC.

⚠ **CAUTION:** Risk of explosion if battery is replaced by an incorrect type. Dispose used battery according to manufacturer's instructions

➤ **Important:** Check the device and the entire alarm system weekly to ensure optimal performance. Have a qualified technician check the entire system at least every three years.

**Figure 1: PGP-IOx**
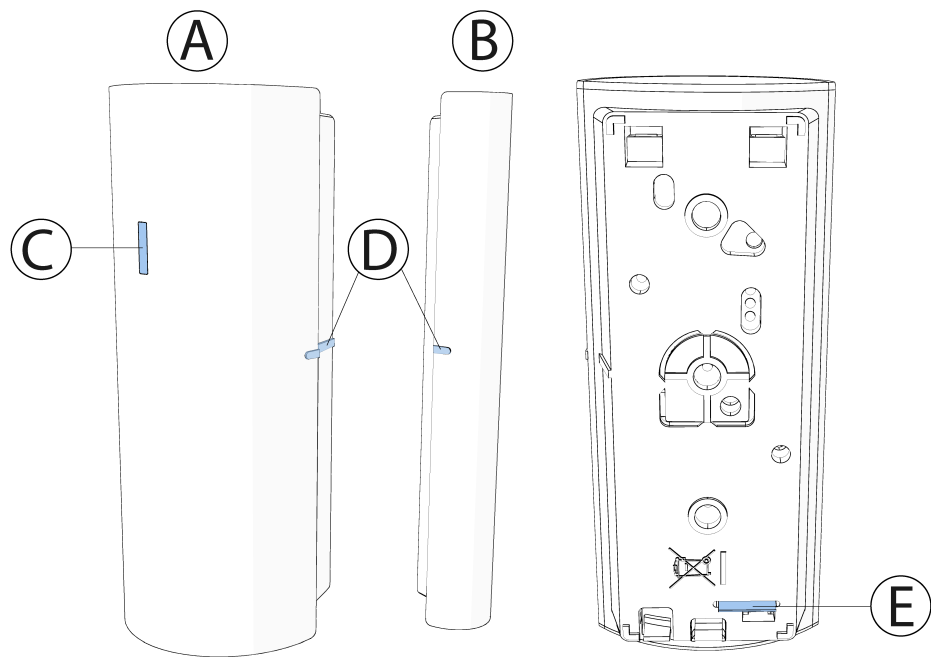


| Callout | Description | Callout | Description |
|---------|-------------|---------|-------------|
| A | Device | D | Positioning marks |
| B | Optional magnet (model PGP-IOMC only) | E | Pull-tab |
| C | Transmission LED | | |

For more information refer to section About PGP-IOx .

## Recommended installation locations

Installation locations must be in accordance to: CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations; CAN/ULC S302, Standard for the Installation, Inspection and Testing of Intrusion Alarm Systems; and CAN/ULC S301, Standard for Signal Receiving Center Intrusion Alarm Systems and Operations, the National Electrical Code, ANSI/NFPA 70. the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681, and the Standard for Central-Station Alarm Services, UL 827, as applicable.

Install the device on a flat window, wall, or door frame.

Do not install the device in dirty or dusty rooms, near water (for example, kitchen or laundry sinks, bath tubs, wets, basements, or similar), heaters, air conditioning, wall vents, refrigerators, in very high or awkward areas (for example, over a stairwell where it is difficult to reach the device for testing or battery replacement).

## Enrolling the device

The following steps are relevant for IQ panels. For other panels, refer to the control panel installation manual for the complete set of enrollment instructions and testing procedures. For enrolling instructions for Neo and PSP panels, see Enrolling instructions for Neo and PSP panels.
Verify that the IQ panel software version supports the device. The minimum IQ Panel 4 software version required is 4.6.0.

1. From the **panel** menu, enter the **Settings** menu.

2. Select **Advanced Settings >Enter Code>Installation >Devices>Security Sensors > Auto Learn Sensor** .

3. Remove the battery pull-tab to power on the device and begin the auto-enrollment process. If the battery pull-tab is not available or if the device does not automatically enroll, open and close the device cover to trigger the enrollment. Alternatively, press the enroll button until the orange LED turns on.

4. **Optional:** Select **Add Sensor** to manually enroll device.

   a. Scan the QR Code on the device box, using the IQ4 camera if available, or see step b.

   b. Manually enter the device ID, printed on the product label. Use the ID 530-XXXX for two input and two output wires. Use ID 106-XXXX for four input wires. In fallback mode (PG2 products), use ID 105-XXXX for two input and two output wires.

   ⓘ **Note:** If the device has been powered up for more than 48 hours it will be identified by the system only after the device has been reset. The PGP-IOx is enrolled with device ID 530-XXXX or 106-XXXX. In fall back mode it enrolls as WL-IOG PG2 with device ID 105-XXXX.

5. Select the desired zone.

6. Configure any device parameters that are required.

7. Mount and test the device. See Local diagnostics test for information on testing the device.

# Configuring the device parameters

1. On the IQ panel, enter the **Installation** > **Devices** > **Security Sensors** > **Edit Sensor**. Select the required configuration as described in the following table:

   **Table 1: Configuration options**

   | Option | Action |
   |---|---|
   | Sensor input | Define the auxiliary hard-wired input.<br>Optional settings: **Disabled**, **End Of Line (EOL)**, **Double end of line (DEOL)**, **Auxiliary Normally Open (NO)**, **Auxiliary Normally Closed (NC)**, or **Global**. |
   | Activation LED | Define whether the alarm LED indication will be activated.<br>Optional settings: LED **Enabled** (default) and LED **Disabled**. |

# Adding the reed switch functionality for PGP-IO9MC

1. From the panel menu, select **Advanced Settings** > **Enter Code** > **Installation** > **Devices** > **Security Sensors** > **Add Sensor**. Manually add the ID. Use the ID 530-XXXX for two inputs or the ID 106-XXXX for four inputs.

In the list of enrolled devices, the panel receives an additional line with the same device ID and different type.

# Mounting the device using tape (model PGP-IO9MC only)

1. Peel the release liners off the two strips of double-sided adhesive tape and attach the tape to the back of the device and the optional magnet. See the following figure.

**Figure 2: Double-sided adhesive tape placement on the device and optional magnet**
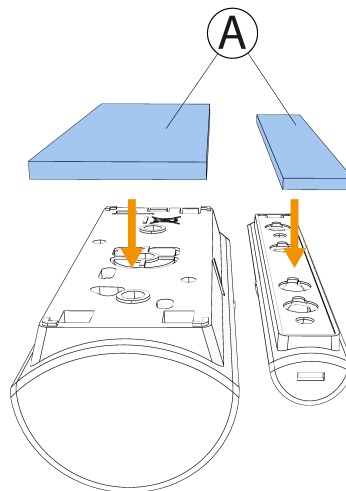


| Callout | Description |
|---------|-------------|
| A | Double-sided adhesive tape |

2. Place the device on the frame of a window or door and place the magnet, if required, on the moving surface of the window or door itself, directed according to the positioning marks. See the following figure.

**Figure 3: Optional: Device and magnet position on door and door frame (model PGP-IO9MC only)**
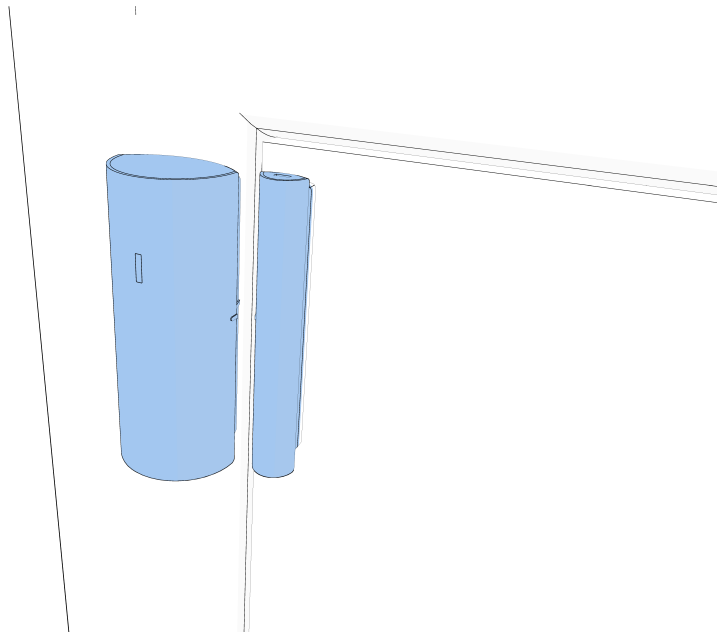


ⓘ **Note:** Mounting using adhesive tape is permitted only for UL/ULC residential installations. Use only the adhesive tape that was provided with the device.

# Mounting the device using screws

ⓘ   **Note:** Mounting using screws is required for UL/ULC commercial burglary and residential fire type installations. Wall tamper (break-away segment) shall also be enabled.

**Figure 4: Internal view**
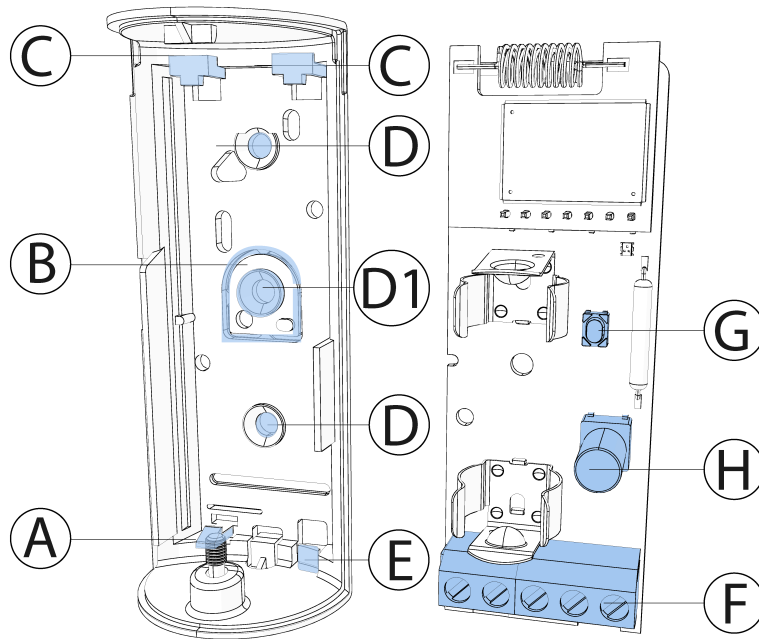


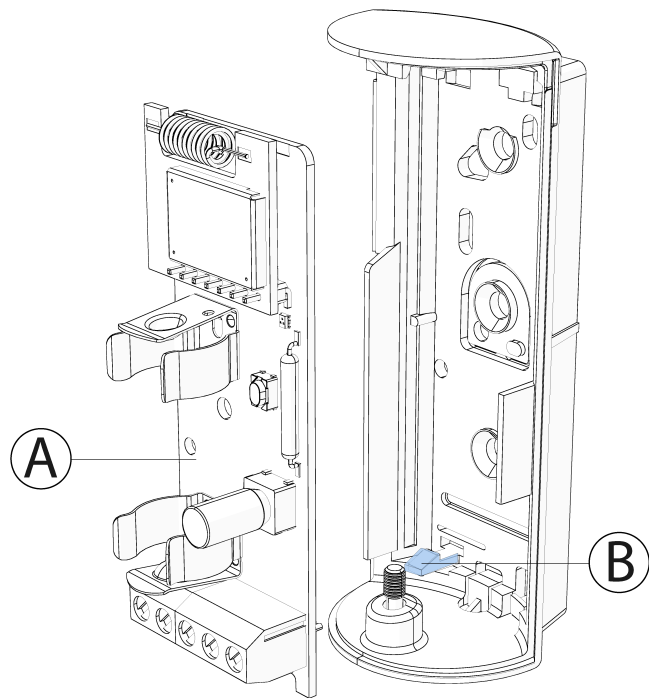| Callout | Description |
|---------|-------------|
| A | Flexible electronic board retainer |
| B | Break-away segment |
| C | Electronic board edge supports |
| D | Mounting holes |
| D1 | Tamper protection |
| E | Wiring inlet |
| F | Terminal block |
| G | Enroll button |
| H | Tamper switch |

1. To open the device cover, use a screwdriver to loosen the cover screw and separate the base from the cover.

**Figure 5: Device cover removal**
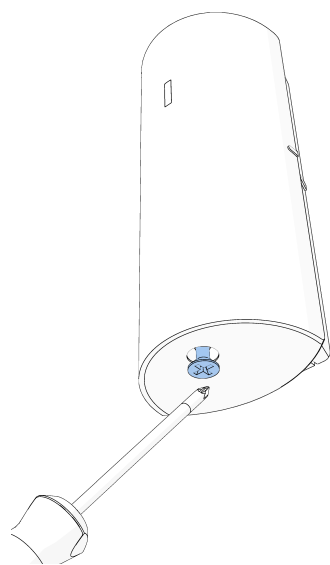


2. Remove the battery.
3. Flex the retainer and remove the electronic board. See B in the following figure.

**Figure 6: Removing the electronic board**



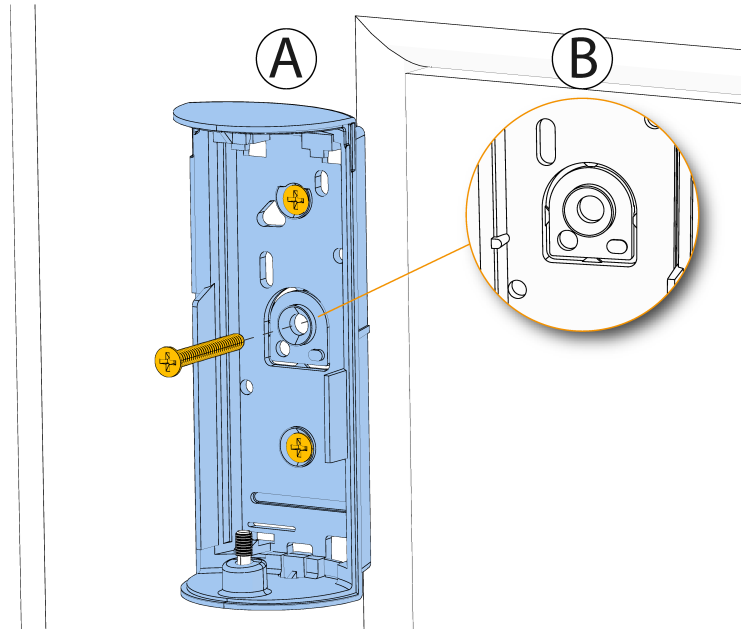| Callout | Description |
|---------|-------------|
| A | Electronic board |
| B | Retainer |

4. Screw the device base on to the chosen surface. See the following figure.

ⓘ **Note:**

Make sure to fasten the break-away segment to the frame. If the device is forcibly removed from the wall, this segment will break away from the base, causing the tamper switch to open. See Figure 7 A.

Wall tamper is required for UL/ULC commercial burglary and residential fire installations and EN Grade 2 installations.

**Figure 7: Device screw installation**



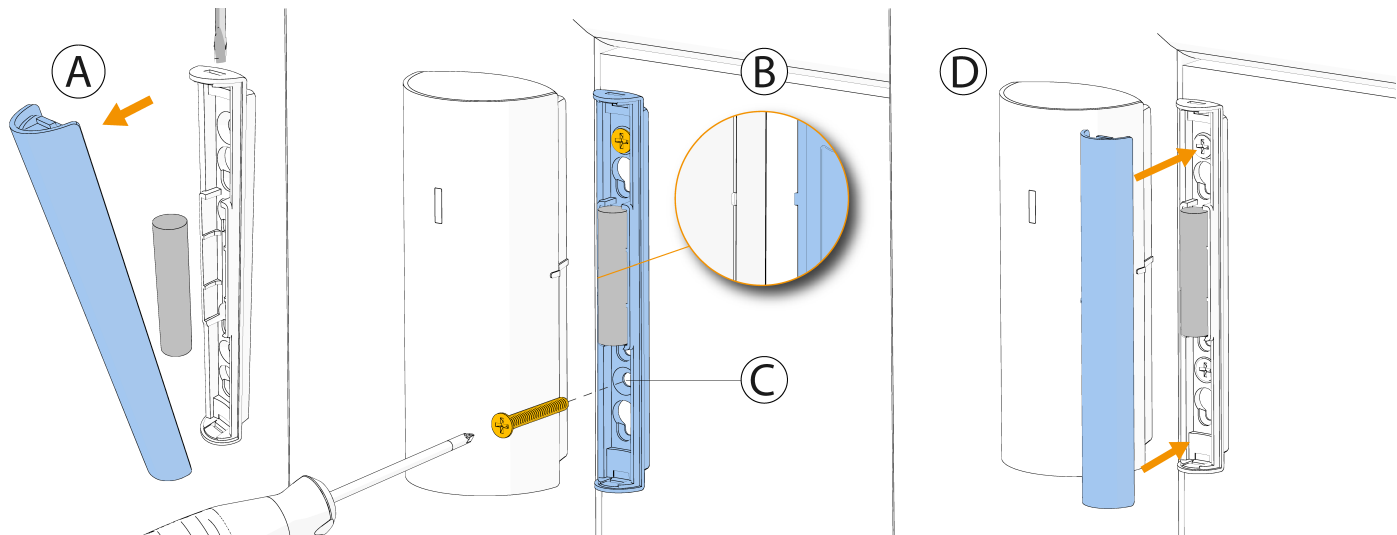| Callout | Description |
|---------|-------------|
| A | Screwing device base |
| B | Break-away Segment |

5. Complete the wiring tasks and the local diagnostics test.

# Mounting the magnet base using screws (model PGP-IO9MC only)

ⓘ **Note:** Only for PGP-IO9MC.

1. To open the magnet cover, use a screwdriver to depress the plastic ledge at both sides of the magnet. See Figure 8 A.
2. Align the magnet base to the device according to the positioning marks. See Figure 8 B.
3. Screw the magnet base onto the door or window frame. See Figure 8 C.

**Figure 8: Magnet screw installation**



4.  **Optional:**  You can add a 2 mm spacer to the magnet.
    Clip the spacer onto the bracket in the required combination.

**Figure 9: Spacer mounting combinations**
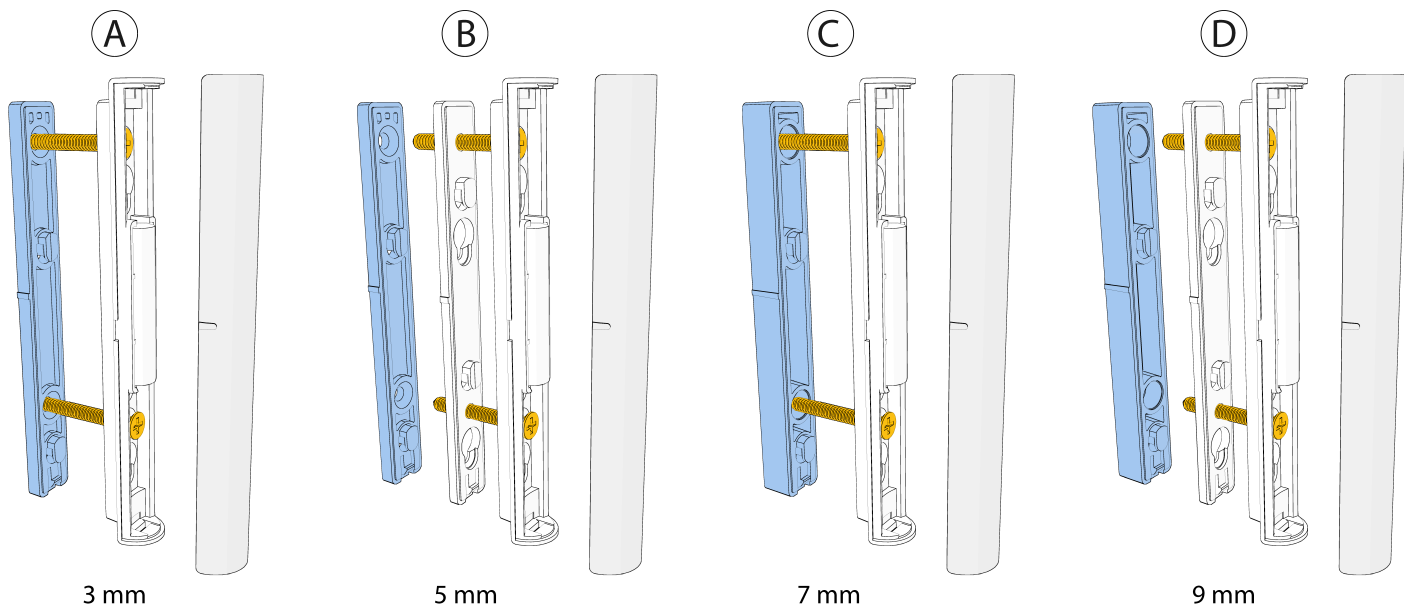


| Callout | Description |
|---------|-------------|
| A | 3 mm bracket |
| B | 3 mm bracket and 2 mm spacer |
| C | 7 mm bracket |
| D | 7 mm bracket and 2 mm spacer |

5.  Close the magnet cover. See Figure 8 D.

# Wiring the input

ⓘ    **Note:** Depending on panel either two or four inputs are added.

The auxiliary input is programmable as either Auxiliary Disabled, End Of Line (EOL), Double end of line (DEOL), Auxiliary Normally Open (NO), Auxiliary Normally Closed (NC), or Global. The Circuits are Power Limited/Class 2.
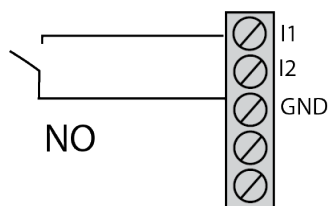
If an input is configured as NC type, series connected NC sensor contacts must be used exclusively. An alarm message is transmitted once the loop is opened.

**Figure 10: Normally closed**
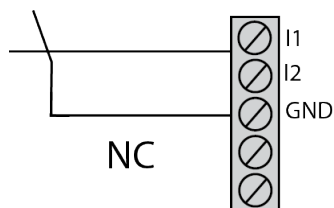


If an input is configured as NO type, parallel connected NO sensor contacts must be used exclusively. An alarm message is transmitted once the loop is closed.

**Figure 11: Normally open**



If an input is configured as EOL type, NC or NO, sensor contacts can be used, as shown in the figure below. 5.6kΩ* resistor must be wired at the far end of the zone loop. An alarm message is transmitted once the loop is opened or short circuited.
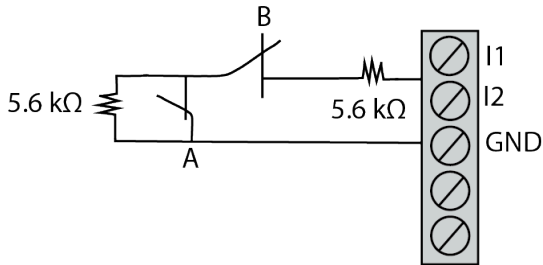
**Figure 12: End of line**
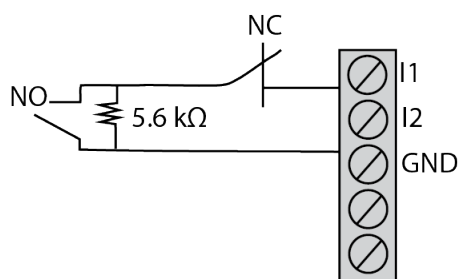
ⓘ **Note:** Note: Note: For UL/ULC listed installations use Model EOLR-2. For UL/ULC fire installation, use only EOL configuration.

If an input is configured as DEOL type, two NC sensor contacts can be used as shown in the figure below. Two 5.6kΩ* resistors must be wired at the far end of the zone loop. An alarm message is transmitted once the Alarm switch is opened. A Tamper message is transmitted once the loop is opened or short circuit.

**Figure 13: Double end of line**



ⓘ **Note:** The inputs can be calibrated to work with end-of-line resistors different from 5.6kΩ. Acceptable resistor values range from 2.5kΩ to 12kΩ.

1. Make sure the device is enrolled and configured with the enabled inputs.
2. Check that all inputs are properly wired and set to their requested normal secured state.
3. Press the enroll button until the green LED turns on, then release the button.
4. If the inputs are calibrated successfully, the green LED flashes three times. If the red LED flashes at this point, return to step one.

   ⓘ **Note:** During calibration, all enabled inputs must be set or wired to a normal secure state; otherwise, the calibration will fail. When the inputs are reconfigured, the calibration value goes back to its factory settings.

The PGP-IOx has by default two inputs and two outputs. The two outputs can be converted to two additional inputs. After the conversion, the PGP-IO x functions as described in the figure below. To convert a PGP-IOx device from 2 inputs and 2 outputs to a 4-input device, complete the following steps.

**Figure 14: Wiring four inputs**
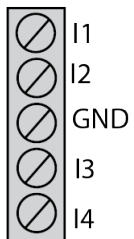


5. Press the enroll button until red LED turns on, then release the button. If the device has been converted successfully to a 4-input device, the red LED flashes three times. The device is now ready to be enrolled as 4-input device. The converted device is shown in the panel as Contact+4in . Use the ID 530-XXXX for two input and two output wires. Use ID 106-XXXX for four input wires. In fallback mode (PG2 products), use ID 105-XXXX for two input and two output wires.
6. To convert the device back to 2 inputs and 2 outputs device, press the enroll button until red LED turns on. When red LED is on, release the button. If the device has been converted back successfully to 2 inputs and 2 outputs device, the green LED flashes three times.

   ⓘ **Note:** To comply with UL 985 Residential fire applications connect only one UL listed Heat detector.

   ⓘ **Note:** Note: Inputs 3 and 4 do not support EOL . Only NO and NC are supported for Burg.

> ⓘ **Note:** For UL/ULC installations, the burglary initiating device connected to the initiating circuit must be located within 3 ft, in the same room, as the transmitter if the AUX input is not configured as EOL. For UL/ULC installations, connect only UL/ULC listed devices to the auxiliary wiring input. An alarm message is transmitted once the loop is opened or short circuited.

**UL985 and ULC-S545 short range RF transmitter application**
The device is also UL/ULC listed as a short range RF transmitter for use in Residential fire applications in conjunction with UL/ULC listed fire alarm initiating devices (for example mechanical heat detectors, manual pull stations, sprinkler system flow sensors, etc.). The transmitter shall be installed using provided screws and the back tamper shall be enabled. The heat detector shall be connected to the wired input of the RF transmitter device and the maximum wire length shall not exceed 30 ft (10m). The Reed switch operation shall be disabled. When enrolling the device in the compatible receiver/control panel combination set the AUX input as Smoke/Heat device with EOL supervision in order to transmit a fire alarm when the external input in activated. When the input circuit is open a trouble condition is generated. An example of compatible initiating devices that could be used in this type of application is the System Sensor UL listed 5600 Series Mechanical Heat Detectors (only models that have self restoring rate of rise sensors 5601P, 5602, 5621, 5622). Refer to the compatible devices installation, testing, and maintenance instructions. Test the self-restoring rate of rise models using a hair dryer or heat gun. Detectors shall be installed as per NFPA72 and/or the local authority having jurisdiction. When testing the ROR element, to prevent the activation of the fixed temperature element, the heat source must not exceed the fixed temperature rating of the detector.

> ⓘ **Note:** For UL/ULC applications when the external contact is used it is to serve one initiating device only.

# Wiring the output

The general purpose outputs are designed for controlling apparatuses having dry-contact control inputs. These general purpose outputs can withstand up to 15 VDC (off state, open loop) and are capable of sinking up to 1 A (on state, closed loop).

**Figure 15: Outputs wiring**
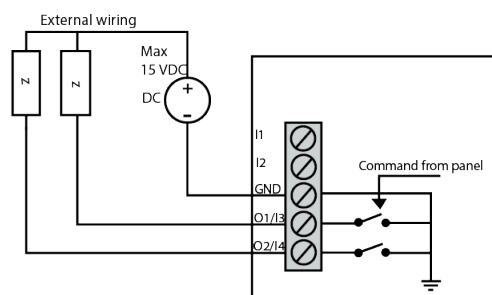


1. Check apparatuses specifications for maximum port voltage and maximum load current.
2. Disconnect the battery.
3. Connect the apparatus to the device.
4. Tighten the connector screws.
5. Insert the battery.

# Wiring the terminal block

1. To open the device cover, use a screwdriver to loosen the cover screw and separate the base from the cover. See Figure 5.

2.  Use long nose pliers to remove the wiring inlet. See Figure 16.

**Figure 16: Removing the knock-out**
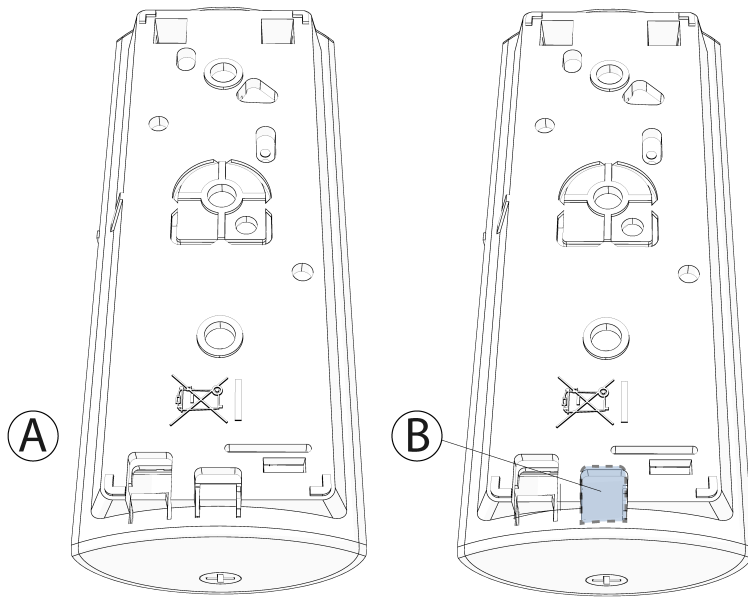


3.  Remove the electronic board from the plastic case. See the following figure.

**Figure 17: Removing the electronic board**
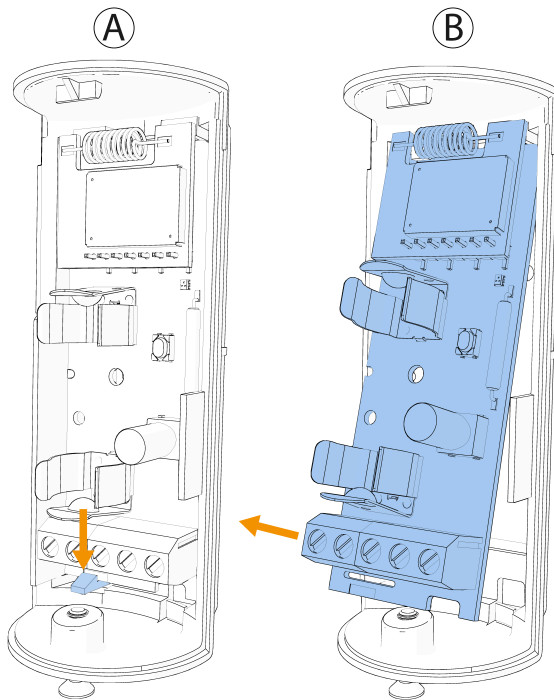


4.  Insert the cable into the space where the knock-out was removed from. See the following figure part A.
5.  Connect the wires to the terminal block. See the following figure part B.
6.  Connect the cable with a screw. See the following figure part C.
7.  Verify that the cable is placed in the correct position and adjust if necessary.
8.  To reattach the electronic board to the base, flex the retainer and place the electronic board under the electronic board edge supports. See the following figure part D.

**Figure 18: Connecting the cable**
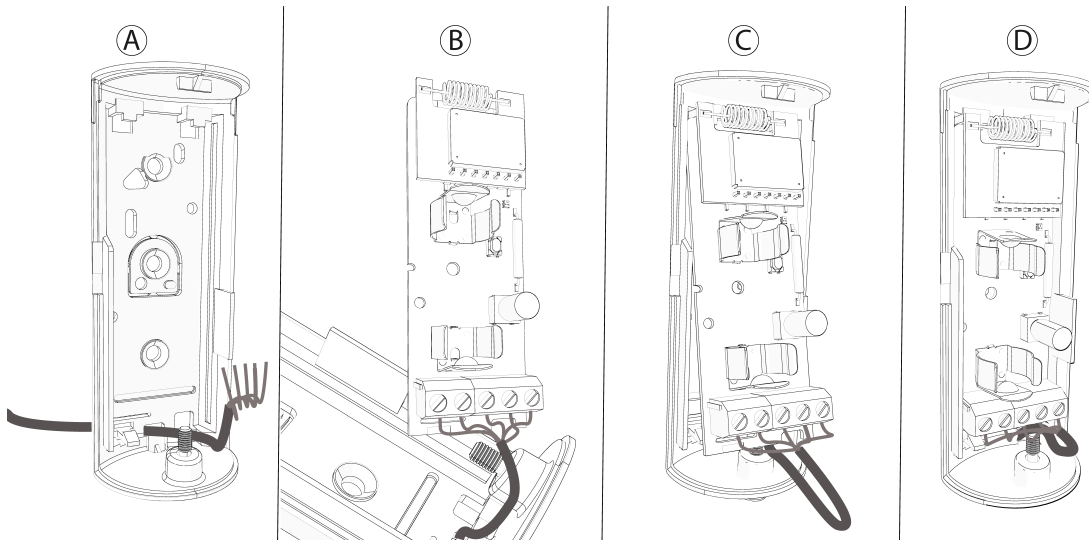


# Replacing the battery

⚠ **CAUTION:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the manufacturer's instructions and according to local rules and regulations.

Replace the battery yearly to ensure optimal performance.

1. Remove the device cover. See Figure 5.
2. Remove the battery. See the following figure.
3. Insert the new battery while observing battery polarity. See the following figure.

**Figure 19: Battery removal and insertion**
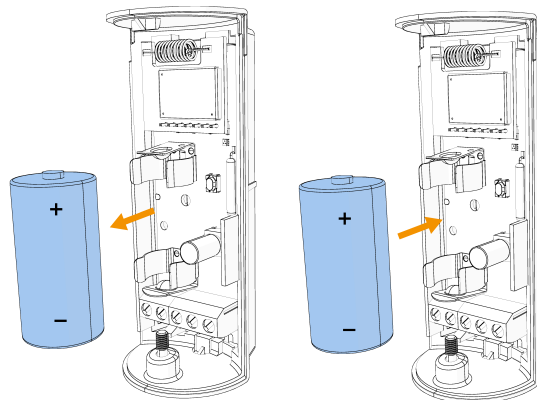


4. Press down on the battery until it fits into place.
5. Close the device cover and fasten the cover screw.

   ⓘ **Note:** After restoring a low battery, the system may take up to 5 minutes to clear the trouble.

# Associating an output with a PGM number

The following steps are relevant for IQ panels. For other panels, refer to the control panel installation manual.

1. In the panel menu, select **Settings**.
2. Select **Advanced Settings > Installation > Devices>Security Sensor**.
3. Select **PGM Output Rules**.
4. Find and select the desired device: 530-XXXX or 106-XXXX. Fallback: 105-XXXX or 106-XXXX.
5. Edit rule PGM1 or PGM2.
6. Select **ADD** and modify all parameters as required.
7. Define location.

# Local diagnostics test

After power-up or closing the cover, the device automatically enters Test Mode for 15 minutes. To manually enter the devices into Test Mode refer to the Control Panel Installer Guide.

ⓘ  **Note:** When closing the cover, the device enters local diagnostics mode for about 15 minutes During this state event detection (reed switch) generates LQT LED indication.

1. Before you start the test, remove the device cover from the base. See Figure 5.
2. Clip the cover onto the device base, return the tamper switch to its normal position, and tighten the cover screw. See the following figure.

**Figure 20: Closing the device cover**
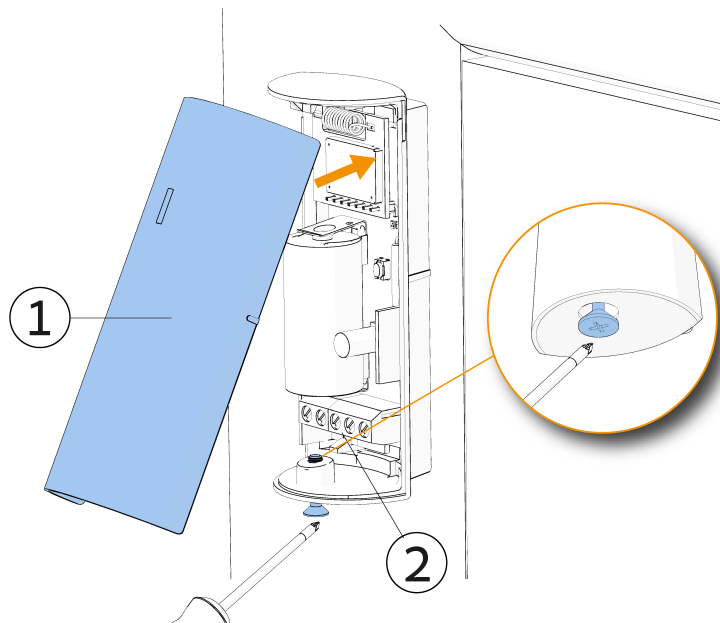


For model, PGP-IO9MC, momentarily open the door or window.
3. After 2 seconds the LED blinks in one of the colors described in the following table.
The following table indicates received signal strength indication.

**Table 2: Signal strength indication**

| LED response | Reception |
|---|---|
| Green LED blinks | Strong |
| Yellow LED blinks | Good |

**Table 2: Signal strength indication**

| LED response | Reception |
|---|---|
| Red LED blinks | Poor |
| No blinks | No communication |

> ➤ **Important:** Reliable reception must be assured. Therefore, poor signal strength is not acceptable. If you receive a poor signal from the device, relocate it and re-test until strong signal strength is received.

> ⓘ **Note:** It is recommended to have a strong signal strength and you must verify the signal strength using the control panel's diagnostic test. For detailed Diagnostics Test instructions, refer to the control panel installer guide.

> ⓘ **Note:** For UL/ULC installations, only strong signal levels are acceptable.

> ⓘ **Note:** After installation, verify the product functionality in conjunction with the compatible receivers.

# Directional magnet distances for event triggers

The following figure and table display the directional magnet distances that trigger open or close events.

**Figure 21: Range coverage directions**
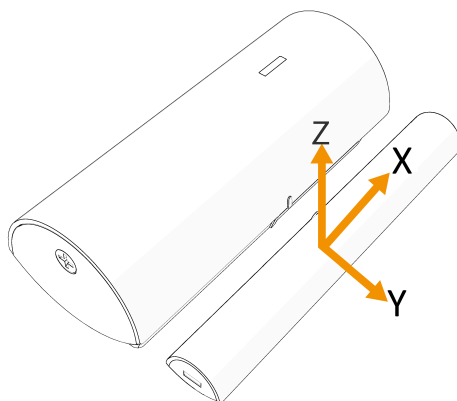


**Table 3: Directional magnet distances for event triggers**

| Non-metallic surface | | Supports | Metallic surface | |
|---|---|---|---|---|
| Opening | Closing | Direction | Opening | Closing |
| 13 mm ±5 mm (0.5 in. ±0.2 in.) | 12 mm ±5 mm (0.5 in. ±0.2 in.) | X | 11 mm ±5 mm (0.4 in. ±0.2 in.) | 10 mm ±5 mm (0.4 in. ±0.2 in.) |
| 22 mm ±5 mm (0.9 in. ±0.2 in.) | 19 mm ±5 mm (0.7 in. ±0.2 in.) | Y | 11 mm ±5 mm (0.4 in. ±0.2 in.) | 10 mm ±5 mm (0.4 in. ±0.2 in.) |
| 26 mm ±5 mm (1.0 in. ±0.2 in.) | 25 mm ±5 mm (0.9 in. ±0.2 in.) | Z | 12 mm ±5 mm (0.5 in. ±0.2 in.) | 11 mm ±5 mm (0.4 in. ±0.2 in.) |

# Troubleshooting

For guidance around investigating problems with the device, see below to restore the device to normal operation for details.

Ensure that the input wiring and programming of the zone(s) is correct. See Wiring the input for details.

Check the signal strength of the device. If signal strength is poor, relocate the device and recheck the signal strength again. See Local diagnostics test for details.

If necessary, replace the battery with a new CR123A type battery, manufactured by GP or Duracell. See Replacing the battery for details.

ⓘ    **Note:** For model PGP-IO9MC only: ensure that the magnet is placed at the appropriate distance so that it triggers open and closed events. See Directional magnet distances for event triggers for details.

# Specifications

**Table 4: Specifications**

| | |
|---|---|
| Frequency Band | 868 to 869 MHz, 912 to 919 MHz |
| Maximum Tx power | +14 dBm @ 868 MHz, +14 dBm @ 915 MHz |
| Modulation | GFSK |
| Communication protocol | PowerG |
| Battery type | 3 V Lithium CR123A manufactured by GP or Duracell only |
| Battery life | 3 years (typical use) for two inputs and two outputs configuration. 5 years (typical use) for four inputs configuration |
| Low battery threshold | 2.4 V at room temperature 25°C (77°F) |
| Nominal operating voltage | 3 V |
| Minimum current | 2 uA |
| Maximum current | 70 mA |
| Operating temperature | 0°C (32°F) to 49°C (120°F) UL/ULC evaluated |
| Storage temperature | -20°C (-4°F) to 70°C (158°F) Not UL/ULC evaluated |
| Relative humidity | Up to 93% non-condensing |
| Inputs | Wire Resistance: Up to 100 Ω. Wire Capacitance: Up to 1nF (maximum distance of 10 meters from the unit for 20 to 22 AWG cable). EOL supervision resistors (optional): 5.6 KΩ, can be field calibrated within the range of 2.5 KΩ to 12 KΩ. |
| Outputs | Up to 15VDC (OFF state, open loop, ~20uA leakage current). Up to 1A (ON state, close loop, ~0.25V terminals dropout). |
| Dimensions (LxWxD) | 89 mm x 37 mm x 30 mm (3.5 in. x 1.5 in. x 1.2 in.) |
| Weight (including battery) | 53 g (1.9 oz) |
| Color | White |
| Auxiliary Input EOL Resistor | 5.6 KΩ |

# Compliance with standards

PGP-IOx complies with the following standards:

| PGP-IO9 PGP-IO9MC | FCC (912 to 919 MHz): 47CFR part 15.427<br>ISED (912 to 919 MHz): RSS-247<br>UL/ULC: UL 634, ULC/ORD-C634, UL 985, ULC-S545, UL 1023, ULC S304, UL 2610 |
|---|---|
| PGP-IO8 | EN 300220, EN 301489, EN 50130-4, EN 50130-5, EN 61000-6-3, EN 62368-1, EN 50131-1, EN 50131-3, EN 50131-5-3 Grade2, Class II and EN 50131-6 Type C |
| | UK: is suitable for use in systems installed to conform to PD6662 at Grade 2 and environmental class II, DD243 and BS8243 |

PGP-IO8 is certified by KIWA in accordance with EN 50131-1, EN 50131-3, EN 50131-5-3, EN 50131-6, EN 50130-4, EN 50130-5. Security Grade 2 and Environmental Class II.

**Simplified EU declaration of conformity**

Hereby, Tyco Safety Products Canada Ltd. Declares that the radio equipment type PGP-IO8 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://dsc.com/pdf/2503001

ⓘ **Note:** Do not co-locate the antennas used for this product, or operate them in conjunction with any other antenna or transmitter. To comply with FCC and ISED Canada RF exposure compliance requirements, locate the device at a distance of at least 20 cm from all persons during normal operation.

Install the UL/ULC listed models PGP-IO9 and PGP-IO9MC in accordance with the Standard for Installation and Classification of Residential Burglar Alarm Systems, UL 1641 and ULC-S302.

This product is to be installed in accordance with Chapter 29 of the National Fire Alarm Code, ANSI/NFPA 72, and ULC-S540.

**FCC and ISED Canada Compliance Statement**

This device complies with FCC Rules Part 15 and with ISED Canada license-exempt RSS standard(s).

Operation is subject to 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 ISED Canada 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 equipment not expressly approved by the party responsible for compliance (DSC.) could void the user's authority to operate the equipment.



### UL/ULC notes

Only models PGP-IO9 and PGP-IO9MC operating in the frequency band 912-919MHz are UL/cUL listed. The PGP-IOx has been listed by UL/ULC for commercial and residential burglary applications in accordance with the requirements in the Standards UL 634 and ULC/ORD-C634 for contacts and switches, and in accordance with UL985 and ULC-S545 as a residential fire RF transmitter (short range). For UL/ULC installations use these device only in conjunction with compatible DSC wireless receivers: HSM2HOST9, HS2LCDRF(P)9, HS2ICNRF(P) 9, HS2LCDRFPRO9, PGP9920, and Qolsys IQPanel2, IQHub, IQPanel4, IQ4 Hub, IQ4 NS and Tyco IQ Pro, and IQ Pro P. After installation verify the product functionality in conjunction with the compatible receiver used.

### Safety Instructions

Read the safety information before you install the equipment.

The detector shall be installed and used within an environment that provides the pollution degree max 2 and over voltages category II in non-hazardous locations, indoor only. The equipment is designed to be installed by SERVICE PERSONS only; (SERVICE PERSON is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons). The detector is to be installed in an indoor dry location. Exposure to weather or corrosive conditions may damage the unit.

### WEEE Product recycling declaration

|  | For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.<br>Directive 2012/19/EU Waste Electrical and Electronic Equipment. |
|---|---|

# Appendix

See the following for the enrolling instructions for the Neo and PSP panels.

## Enrolling instructions for Neo and PSP panels

Wireless devices are enrolled via the wireless transceiver module and Installer Programming section [804][000]. Compatible Devices for a list of supported wireless devices. Wireless devices are enrolled using one of the following methods.

### Auto enrollment

To enroll a wireless device using this method, press and hold the Enroll button on the device for 2-5 seconds until the LED lights then release the button. The alarm panel automatically recognizes the device and the keypad displays a confirmation message. The device ID and next available zone number are displayed. Press [*] to accept or scroll to another available zone number. Batteries must be installed in the wireless device in order to enroll. Various zone features are programmable depending on the type of device. Zone Setup for details.

### Pre-enrollment

Pre-enrollment is a two-step process. The first step requires entering each device ID ([804][001]- [716]). Every wireless device has an ID printed on the sticker attached to the device. The format is XXX-YYYY where XXX identifies the type or model of the device and YYYY is a short encrypted ID used by the system to identify the specific device. Pre-enrollment can be done at a remote location and using DLS/SA. The second step is to press the enrollment button on the device, usually done on location. Installer Programming does not have to be entered at this step. Both steps must be performed in order to complete the enrollment.

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Digital Security Controls ("DSC"), a division of Tyco Safety Products Canada Ltd, a part of the Johnson Controls group of companies ("JCI"), 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, JCI 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 JCI 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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