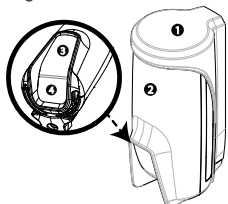




PG9902/PG8902/PG4902 Overview

Wireless outdoor curtain pet immune PIR detector with anti-masking

Figure 1. PGx902



1. Bracket
2. Device
3. Indication LED
4. PIR optical window

The PGx902 is a smart, wireless outdoor curtain PIR detector with anti-masking. It is supported by the DSC alarm system and uses PowerG two-way communication protocol.

The detector has the following features:

- Two channel Pyro (patented) thermal sensor output
- Microprocessor-controlled temperature compensation
- White light protection
- Adjustable pet immunity selector
- Adjustable detection sensitivity
- Parabolic and elliptical optics (patented)
- Target Specific Imaging™ (TSI) technology distinguishes between humans and pets weighing up to 18 kg or 40 lbs
- True Motion Recognition™ algorithm (patented)
- Cross-direction detection: both directions, left to right, and right to left.
- Active smart anti-masking ability recognizes spray and dust (patented)
- No vertical adjustment is needed.
- Long-life battery which is due to the ultralow current consumption
- Front and back tamper protection (patented)
- Supports temperature and light level reports according to the PowerG panel version

Note: For UL installations, use the detector with UL listed control units only.

Installation advice

Only qualified service persons can install the PGx902. Before you install the device, consider the following points:

Do:

- Install the PGx902 according to the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681.
- Consider weather conditions that can trigger false alarms, such as moving tree branches or leaves, and other related environmental conditions.
- Locate the device at least 20 cm from all persons during normal operation to comply with FCC and ICSED Canada RF exposure compliance requirements.

Do not:

- Obscure the field of view of the detector or install the device over sloped ground.
- Install the device in hazardous locations, in areas with a pollution degree higher than pollution degree 2, or in circuits above overvoltages category II.
- Co-locate or operate the antennas used for this product in conjunction with any other antenna or transmitter.

Note:

- To calibrate the detector sensitivity to identify people more accurately, set the detector detection range. See Table 1.
- To protect a window, mount the detector on an upper corner of the window frame so that the PIR beams are parallel with the glass pane.
- In rare cases, an extreme change in environmental light can cause a false anti-masking alert. If the anti-masking feature does not automatically reset after ten minutes, disable and then enable the anti-masking setting. See Outdoor anti-mask in Modifying the device.

Mounting the device

1. Use the uppermost and middle holes in the device bracket to mark two holes on the mounting surface. See hole number 1 and hole number 2 in Figure 2.
2. **Optional:** To avail of tamper protection, use the bottommost hole in the break-away segment of the bracket to mark a third hole on the mounting surface. See hole number 3 in Figure 2.
3. Drill the required holes in the mounting surface according to the markings and insert the wall plugs. See Figure 3.
4. Fasten the bracket to the mounting surface with screws. See Figure 4.
5. Insert the batteries into the detector and close the battery cover. For more information, see Inserting or replacing the batteries.
6. Insert the top of the detector into the bracket. As you insert the detector, choose a slot in the bracket that positions the detector to cover the area that requires protection. See Figure 5 and Figure 6.
 - Note:**
 - When you complete step 6, the LED blinks to indicate the start of the tamper self-calibrating procedure.
 - When the detector is resting on the unscrewed bracket, you can rotate it to a more exact final position. See Callout 1 in Figure 7.
7. While the LED blinks, tighten the bottom screw to close the bracket. See Callout 2 in Figure 7.
 - Note:** If the yellow LED stops blinking before the screw is tightened adequately, remove the detector from the bracket and wait three seconds. Repeat step 6 to start the self-calibrating procedure.

Figure 2. Marking screw holes

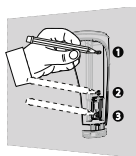


Figure 3. Drilling screw holes

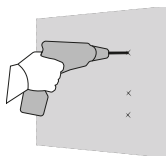


Figure 4. Fastening the bracket

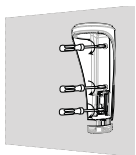


Figure 5. Rotation slot



Figure 6. Slotting into device

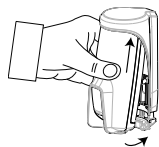
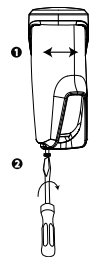


Figure 7. Closing the bracket



Enrolling the PGx902

To enroll the PGx902, from the **INSTALLER** menu, select **02:ZONES/DEVICES**, and complete the steps in the following procedure:

Note:

- For UL/ULC listed installations, only use the device in conjunction with UL/ULC listed control panels.
 - If you enroll the PGx902 in DSC panels with version 19.4 or lower, the detector enrolls as an outdoor PIR motion detector. The device enrolls in the panel with the device ID, **130-xxxx**, and the name, **Motion Out.**
1. To ensure that the proper steps are used, refer to the installation manual for the alarm system that the device is being enrolled on.
 2. From the installation menu, enter the device enrollment option through the specified method and select the appropriate option to add the new device.
 3. Pull the enrollment tab or insert the batteries to power on the device and begin the auto-enrollment process.
 - Note:** You can also enter **ID:xxx-xxxx** (the number of the device that is printed on the label), or press the enroll button on the detector to begin the enrollment process if the device does not automatically enroll.
 4. Select the desired zone number.
 5. Configure any device parameters that are required.
 6. Mount and test the detector. See Performing a walk test/local diagnostic test for information on testing the device. In addition, see the alarm systems installation manual that the device is enrolled on for other test procedures that are required.

Notes:

- After you enroll the detector, you can configure the detector parameters and assign partitions. See Configuring the detector parameters for more information.
- The **PARTITIONS** option appears only if the panel supports partitioning and the feature was enabled prior to this procedure. For more information, refer to *Partitioning* in the DSC installation guide.

Configuring the detector parameters

Modifying the device

To modify the PGx902, enter the **DEVICE SETTINGS** menu and follow the configuration instructions as described below.

- **Alarm LED:** Activate or deactivate the alarm LED indication.
 - Optional settings: **LED ON** (default) and **LED OFF**.
- **PIR range:** Select one of the three ranges, according to your installation preference. See Setting the detector range.
- **Outdoor anti-mask:** Enable or disable the outdoor anti-masking feature.
 - Optional settings: **Disabled** (default) and **Enabled**.
- **Alarm hours:** Set the motion detector to alarm always or only when it is dark.
 - **Note:** For UL/ULC installation, only use the alarm hours feature for night protection as a supplement to the protection already covering the area.

- Optional settings: **Day and night** (default) and **Night only**.

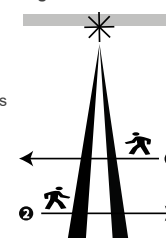
- **Alarm direction:** Define the detection direction. The alarm direction function can reduce the probability of false alarms by more than half when the detector is protecting a door or a gate. With this function, the device can differentiate between property inhabitants exiting, and potential intruders entering the premises.
 - **Note:** This feature is only available in DSC panels version 20.2 and higher.
 - Optional settings: **Both** (default), **Left to right**, **Right to left**.
 - See Figure 8 for the alarm direction diagram. In , Callout 1 shows a **Right to left** detection pattern and Callout 2 shows a **Left to right** detection pattern. The right and left directions refer to the point of view of the installer while observing the detector in its fixed position.
- **VERY HOT:** Define whether or not the control panel reports a **VERY HOT** alert when the temperature rises above the **threshold** value for at least the duration of time specified in the **alert delay** value. The alert restore occurs when the temperature drops 1°C or 1.8°F below **threshold** for at least the duration of the **restore delay** value.
 - **Note:** The default **threshold** value for **VERY HOT** is 35°C or 95°F. The default **alert delay** value and the default **restore delay** value is 10 minutes.
 - Optional settings: See Configuring the temperature alerts.
- **COLD:** Define whether or not the control panel reports a **COLD** alert when the temperature drops below the **threshold** value for at least the duration specified in the **alert delay** value. The alert restore occurs when the temperature rises 1°C or 1.8°F above the **threshold** value for at least the duration of the **restore delay** value.
 - **Note:** The default **threshold** value for **COLD** is 19°C or 66°F. The default **alert delay** value and default **restore delay** value is 10 minutes.
 - Optional settings: See Configuring the temperature alerts.
- **FREEZING:** Define whether or not the control panel reports a **FREEZING** alert when the temperature drops below the **threshold** value for at least the duration specified in the **alert delay** value. The alert restore occurs when the temperature rises 1°C or 1.8°F above the **threshold** value for at least the duration of the **restore delay** value.
 - **Note:** The default **threshold** value for **FREEZING** is 7°C or 45°F. The default **alert delay** value and default **restore delay** value is 10 minutes.
 - Optional settings: See Configuring the temperature alerts.
- **FREEZER:** Define whether or not the control panel reports a **FREEZER** alert when the temperature rises above the **threshold** value for at least the duration specified in the **alert delay** value. The alert restore occurs when the temperature drops 1°C or 1.8°F below the **threshold** value for at least the duration of the **restore delay** value.
 - **Note:** The default value for **threshold** is -10°C or 14°F. The default value for **alert delay** is 30 minutes. The default value for **restore delay** is 30 minutes.
 - Optional settings: See Configuring the temperature alerts.
- **Disarm activity:** Define the length of time that the sensor continues to detect motion during the disarm process.
 - Optional settings: **NOT Active** (default), **YES – no delay**, **YES + 5 s delay**, **YES + 15 s delay**, **YES + 30 s delay**, **YES + 1 min**, **YES + 2 min**, **YES + 5 min**, **YES + 10 min**, **YES + 20 min**, **YES + 60 min**

Notes:

- To generate an alarm or restore transmission, the temperature must pass beyond the **threshold** value for the required duration.

- The user can give access to the installer to remotely enable or disable the indication LED.

Figure 8. Detection direction



Configuring the temperature alerts

You can configure each of the four temperature alerts:

- VERY HOT, COLD, FREEZING, and FREEZER.**
- **Threshold:** Displays the last saved **threshold** value. To change the default value, click the back or next button to decrease or increase the value and click **OK**.
 - **Disable/Enable:** Defines whether or not the panel will report an alert or not.
 - **Alert delay:** Define the amount of time to pass before an alert is reported when the temperature exceeds the defined default duration. The **alert delay** time values are: **Immediately**, **1 min**, **2 min**, **10 min**, **15 min**, **20 min**, **30 min**
 - **Restore delay:** Defines the amount of time to pass before a restoration alert is reported when the temperature returns below the **threshold** value. The **restore delay** time values are: **Immediately**, **1 min**, **2 min**, **10 min**, **15 min**, **20 min**, **30 min**

Setting the detector range

From the DSC panel installer menu, select **02:ZONES/DEVICES** and follow the menu path displayed in Table 1 to configure the device detection range.

Note: If you enroll the PGx902 in DSC panels with version 19.4 or lower, the detector enrolls as an outdoor PIR motion detector. The device enrolls in the panel with the device ID, **130-xxxx**, and the name, **Motion Out.**

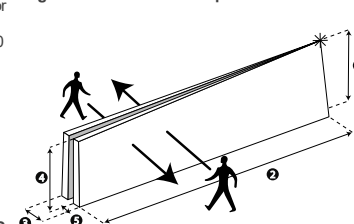
Table 1. Setting the detector range

Panel	>= V20.2	<= V19.4
Device ID	PGx902: ID: 129-xxxx S.OutCurtain	TOWER-20AM: ID: 130-xxxx Motion Out.
Menu path	1. 02:ZONES/ DEVICES 2. DEVICE SETTINGS 3. PIR RANGE	1. 02:ZONES/ DEVICES 2. DEVICE SETTINGS 3. PIR SENSITIVITY
Range options	Maximum: 8 m Medium: 5 m Minimum: 3 m	High: 8 m Low: 3 m One region: 8 m

Notes:

Range refers to Callout 2 in Figure 9. The asterisks symbol represents the detector point of view and the start of the PIR curtain.

Figure 9. Detection beam pattern



Callout	Distance
1	2 m or 6.56 ft
2	8 m or 26.25 ft
3	0.75 m or 2.46 ft

4	1.9 m or 6.23 ft
5	0.25 m or 0.82 ft

Inserting or replacing the batteries

Warning: If you replace the batteries with an incorrect type, there is a risk of explosion.
Note: When you replace the batteries, wait one minute after the batteries are removed before you insert the new batteries.

1. Unscrew the bottom screw of the bracket and remove the detector. See Figure 10 and Figure 11.
2. Press on the snap located at the top of the battery cover with your thumb to open the battery cover. See Figure 12.
3. **Optional:** To replace the batteries, remove the old batteries and insert the new batteries with the (+) and (-) symbols matching the illustration found in the battery compartment. See Number 2 in Figure 13.
4. **Optional:** To activate the batteries of a new device, pull the battery tab while holding the batteries in place with your thumb. See Figure 14.
5. To close the battery compartment, insert the bottom section of the battery cover first and then press and hold the snap while closing the top part of the cover. See number 1 and number 2 in Figure 15.
6. Insert the device into the bracket and tighten the bottom screw of the bracket. For more information, see Step 6 and Step 7 in Modifying the device.

Note: Dispose of used batteries according to the manufacturer instructions and according to local rules and regulations.

Figure 10. Unscrewing the bracket screw



Figure 11. Removing the detector from bracket

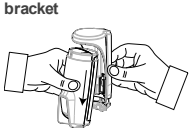


Figure 12. Opening the battery cover



Figure 13. Enrollment button and battery polarity

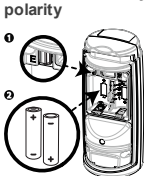


Figure 14. Pulling the battery tab



Figure 15. Closing the battery cover



Setting the pet immunity

The pet immunity feature allows pets to pass through the PIR curtain without triggering a false alarm. The pet immunity selector is in the battery compartment. See Figure 16. Remove the battery cover and then remove the right-hand side battery to configure the pet selector. See Inserting or replacing the batteries for more information. Choose the device mounting height and configure the pet immunity selector according to the following guidelines:

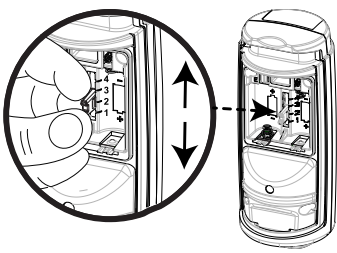
Table 2. Pet immunity selector and mounting height

Pet immunity	Setting	Mounting height
Pet < 18 kg or 40 lbs	1 (default)	2 m or 6.56 ft
Small pet < 3 kg or 6.6 lb; or rodents	2	1.8 m or 5.9 ft to 2 m or 6.56 ft
No pet	4	1.6 m or 5.25 ft to 2 m or 6.56 ft

Note:

- Setting 3 in the pet mask selector has no function.
- The best mounting height for setting 4 is 2 m or 6.56 ft.

Figure 16. Pet immunity selector



Performing a walk test/local diagnostic test

Before you permanently mount the device, temporarily mount the device and perform a walk test.

1. Insert the batteries or close the battery cover to start the 90 second stability period. The LED flashes red during this period.
2. Walk through the far end of the detector's PIR curtain. The LED lights red each time it detects motion and then blinks three times.
3. Compare the LED blink response to the reception value in Table 3.
4. Repeat the test until you receive a good or strong signal. If you receive a poor signal, relocate the device until you receive a good or strong signal strength.
5. When you receive a good or strong signal, repeat the process from the other direction. See .

The device automatically enters normal mode 15 minutes after you complete the walk test procedure.

Notes:

- Perform a walk test of the coverage area at least once a week to ensure that the detector is working correctly.
- For detailed diagnostics test instructions, refer to the control panel installation guide.
- The PGx902 can be configured to detect movement with the following settings: **Left to right, Right to left, and Both.** For more information, see the alarm direction setting in Modifying the device.

Note: For UL/ULC installations, only strong signal levels are acceptable. After installation verify the product functionality in conjunction with the compatible control panels: HSM2HOST9, HS2LCDRF(P) 9, HS2ICNRF(P) 9, PG9920, WS900-19, and WS900-29.

Table 3. Walk test signal strength indication

LED response	Reception
3 Green blinks	Strong
3 Orange blinks	Good
3 Red blinks	Poor
No blinks	No communication

LED operation

Table 4 provides the types of LED indications and their corresponding events.

Table 4. LED indication significance

LED Indication	Event
Red LED blinks	Stabilization (Warm-up 90 s)
Red LED on 0,2 s	Tamper open/close
Red LED on 2 s	Intruder alarm
Yellow LED on	Anti-masking detection, diagnostic mode

Yellow LED blinks slowly (0.2 s on, 30 s off)

Yellow LED blinks

Temperature Display

To ensure that the zone temperature and light data display are on the correct panel, refer to **6.2 Conducting a Periodic Test** in the relevant wireless panel installation guide.

Compatible receivers

This device can be used with DSC panels that use PowerG technology.

- For UL installations, the detector is for use with UL listed control units only.
- Only devices operating in band 912-919 MHz are UL/ULC listed.

Specifications

GENERAL

Special two-channel PIR outputs

OPTICAL

Lens data: Mirror type, common parabolic-elliptic surface

Detector mirror max. coverage: Up to 8 m / 6'

Detection ranges: Select 3 m, 5 m or 8 m. See Callout 2, Table 1.

ELECTRICAL

Power supply: Type C

Internal battery: Two 3 V lithium battery, type CR-123A.

For UL installations, use Panasonic and GP only

Nominal battery capacity: 1450 mAh

Battery life (typical use): Minimum 1 year. Typical use, 3 years (not verified by UL)

Low battery threshold: 4 V

Battery power test: Performed immediately upon battery insertion and periodically every several hours. The power supply is type C in accordance with EN50131-6

Documentation - Clause 6

Current consumption: 30 µA average quiescent, maximum 150 mA (during transmission)

FUNCTIONAL

Alarm period: 2 seconds

Pet immunity: Up to 18 kg (40 lb)

Pet configurations: Pet < 18 kg/40 lbs (default); pet < 3 kg/6.6 lb; No pet

WIRELESS

Frequency: Europe and rest of world: 433 - 434 MHz, 868 - 869 MHz USA: 912-919 MHz. Only devices in frequency band 915 MHz are UL/ULC listed.

Communication protocol: PowerG

Supervision: Signaling at 256 second intervals

Tamper alert: Reported when a tamper event occurs and in any subsequent message, until the tamper switch is restored.

MOUNTING

Mounting type: Wall mounting

Mounting Height: 1.6 - 2 m (5.25 - 6.56 ft)

Horizontal Adjustment: -90° to +90°, in 10° steps

ENVIRONMENTAL

RF immunity: 0 V/m up to 1000 MHz, 10 V/m up to 2700 MHz

Operating temperature: -35°C to 60°C (-31°F to 140°F)

For UL/ULC installation, evaluated to 66°C

Humidity: Average relative humidity of up to approximately 75% non-condensing. For 30 days per year the relative humidity may vary between 85% and 95% non-condensing. For UL installations: 5% to 93% with no condensation

Storage temperatures: -35°C to 60°C (-31°F to 140°F)

PHYSICAL

Size (diameter): 145 mm x 71 mm x 62 mm

Weight (with battery): 283 g (10 oz)

Color: White

Note

The PG902 detector was designed to adhere to applicable privacy regulations and only processes data needed for the primary functionality of the device. Before using the detector you will be asked to provide consent with processing of the personal data that the detector may capture. Note that the detector records video to secure the best functionality of the device. The recordings are processed server-side and not locally stored on the device. Based on the location of the model you may have the obligation to issue a notice about using it. The data recorded through the PG902 detector are processed and managed primarily by the data controller. Data controller is the entity that provides most services to you. You have the right to contact your data controller. For more information on our privacy practices please contact the data controller.

For more information about Tyco privacy practices please visit our website <http://www.tyco.com/privacy>.

UL/ULC Notes

Only model PG9902 operating in the frequency band 912-919 MHz is UL/ULC listed. The PG9902 has been listed by UL for commercial and residential burglar applications only by UL for residential burglar applications in accordance with the requirements of the Standard UL 438 and UL 588 for Intrusion Detection Units. For UL/ULC listed units, use these devices only in conjunction with compatible DSC wireless receivers: HSM2HOST9, HS2LCDRF(P) 9, HS2ICNRF(P) 9, PG9920, WS900-19, and WS900-29. After installation verify the device functionality in conjunction with the compatible receiver used.

FCC COMPLIANCE STATEMENT

WARNING: Changes or modifications to this unit may void the warranty provided by the party responsible for compliance and void the user's authority to operate the equipment. This device has been tested and found to comply with the limits for 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 a 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 may be verified by turning the device off, and the user is encouraged to attempt to eliminate the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

Industry Canada Statement

This equipment complies with FCC and ICSED Canada RF radiation exposure limits set forth in an unconditioned environment. This device complies with FCC Rules Part 15 and with ICSED Canada license exempt RSS standard 4. 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 that may cause undesired operation. The present approval is not valid for use in countries of the ICSED Canada applicable rules, except as indicated in the license. It is exempt from the requirements of the ICSED Canada rules for the following: (1) Approval for use in the 433-434 MHz and 868-869 MHz bands, (2) for use in the 912-919 MHz band, (3) for use in the 433-434 MHz band, (4) for use in the 868-869 MHz band, (5) for use in the 912-919 MHz band, (6) for use in the 433-434 MHz band, (7) for use in the 868-869 MHz band, (8) for use in the 912-919 MHz band, (9) for use in the 433-434 MHz band, (10) for use in the 868-869 MHz band, (11) for use in the 912-919 MHz band, (12) for use in the 433-434 MHz band, (13) for use in the 868-869 MHz band, (14) for use in the 912-919 MHz band, (15) for use in the 433-434 MHz band, (16) for use in the 868-869 MHz band, (17) for use in the 912-919 MHz band, (18) for use in the 433-434 MHz band, (19) for use in the 868-869 MHz band, (20) for use in the 912-919 MHz band, (21) for use in the 433-434 MHz band, (22) for use in the 868-869 MHz band, (23) for use in the 912-919 MHz band, (24) for use in the 433-434 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- Sélecteur de non déclenchement par les animaux à trois options : aucun animal, petit animal de moins de 3 kg ou animal de moins de 18 kg.
- Sensibilité de détection réglable
- Système optique parabolique et elliptique (breveté)
- La technologie Target Specific Imaging™ (TSI) fait la distinction entre les individus et les animaux pesant jusqu'à 18 kg.
- L'algorithme True Motion Recognition™ (breveté) fait la distinction entre les mouvements réels d'un intrus et toute autre perturbation susceptible de déclencher de fausses alertes.
- Détection transversale : dans les deux directions, de gauche à droite, de droite à gauche.
- La capacité active intelligente d'anti-masque (breveté) reconnaît les sprays et la poussière
- Aucun réglage vertical n'est nécessaire.
- Pile longue autonomie grâce à une consommation électrique extrêmement faible
- Autoprotection avant et arrière (breveté)
- Compatible avec la fonction de signalement du niveau de température et de lumière, selon la version de la centrale PowerG

Remarque : pour les installations certifiées UL, utilisez le détecteur uniquement avec des unités de contrôle certifiées UL.

Conseils d'installation

Seuls des techniciens qualifiés sont habilités à installer le PGx902. Avant d'installer l'appareil, prenez en compte les points suivants :

À faire :

- Installer le PGx902 conformément à la norme UL 681, Standard for Installations and Classifications of burglar and Holdup Alarm Systems.
- Tenir compte des conditions météorologiques qui pourraient déclencher des fausses alarmes, telles que branches d'arbre ou feuilles agitées par le vent, et autres conditions environnementales associées.
- Positionner l'appareil à au moins 20 cm de toute personne en conditions de fonctionnement normal, conformément aux normes d'exposition aux fréquences radio FCC et ISED Canada.

À ne pas faire :

- Installer l'appareil dans un endroit dangereux, dans un endroit présentant un degré de pollution supérieur à 2, ou dans des circuits présentant des surtensions supérieures à la Catégorie II.
- Obstruer le champ de vision du détecteur ou installer l'appareil sur un sol incliné.
- Positionner ou utiliser les antennes de ce produit dans un espace où se trouve une autre antenne ou émetteur.

Remarques :

- Si vous orientez le détecteur vers un espace ouvert, les rayons PIR pourraient sortir de la zone de couverture souhaitée.
- Pour protéger une fenêtre, placez le détecteur dans un des angles supérieurs de son châssis afin que les rayons PIR soient parallèles à la partie vitrée.
- Afin de calibrer la sensibilité du détecteur de manière à identifier la présence de personnes avec une meilleure précision, définissez la portée de détection de l'appareil. Pour plus d'informations, voir Table 5.
- Dans de rares cas, un changement extrême de la lumière ambiante peut provoquer une fausse alarme anti-masquage. Si la fonction anti-masquage ne se réinitialise pas automatiquement après dix minutes, désactivez puis activez le paramètre anti-masquage. Pour plus d'informations, voir Anti-masque extérieur dans Modification de l'appareil.

Montage du PGx902

1. Installez les trous situés le plus en haut et au milieu du support pour marquer deux trous sur la surface de montage. Voir les trous Numéros 1 et 2 de la Figure 18.
2. Facultatif : pour utiliser l'autoprotection, utilisez le trou situé le plus en bas du segment détachable du support pour marquer un troisième trou sur la surface de montage. Voir trou Numéro 1 de la Figure 18.

3. Percez les trous souhaités sur la surface de montage en fonction des repères et insérez les chevilles. Voir Figure 19.
4. Fixez le support à la surface de montage avec les vis. Voir Figure 20.
5. Insérez les piles dans le détecteur et refermez le capot des piles. Pour plus d'informations, voir Insertion ou remplacement des piles.
6. Insérez le haut du détecteur dans le support. Lorsque vous insérez le détecteur, choisissez une encoche du support qui vous permette de positionner le détecteur de manière à couvrir la zone à protéger. Voir Figure 21 et Figure 22.
7. Pendant que le voyant clignote, resserez le vis inférieure pour fermer le support. Voir Numéro 2 de la Figure 23.

Remarque : lorsque vous effectuez l'Étape 6, un voyant clignotant indique le début de la procédure d'auto-étalonnage de l'autoprotection.
Remarque : une fois le détecteur placé dans le support non vissé, vous pouvez le faire tourner jusqu'à la position exacte souhaitée. Voir trou Numéro 1 de la Figure 23.
Remarque : si le voyant jaune arrête de clignoter avant que vous n'ayez eu le temps de serrer la vis, retirez le détecteur du support et attendez trois secondes. Répétez l'étape 6 pour commencer la procédure d'auto-étalonnage.

Figure 18: Marquage des trous des vis



Figure 20: Fixation du support

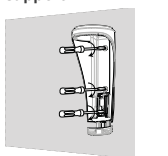


Figure 22: Enclenchement dans l'appareil



Figure 19: Perçage des trous des vis

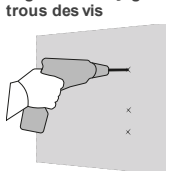


Figure 21: Encoche de rotation

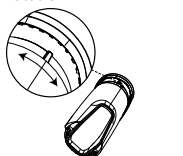
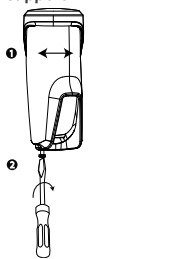


Figure 23: Fermeture du support



Enregistrement du PGx902

Pour enregistrer le PGx902, dans le menu **Installeur**, sélectionnez **02: ZONES/APPAREILS**, et suivez les étapes de la procédure suivante :

Remarques :

- Dans le cas d'installations conformes UL/ULC, utilisez uniquement le détecteur avec des centrales certifiées UL/ULC.
- Si vous enregistrez le PGx902 dans les centrales DSC de version 19.4 ou inférieure, le détecteur s'enregistre en tant que détecteur de mouvements PIR pour l'extérieur. L'appareil s'enregistre dans la

centrale avec l'ID d'appareil **130-xxxx**, sous le nom de **IR extérieur**.

1. Pour être sûr de suivre la procédure adéquate, consultez le manuel d'installation du système d'alarme dans lequel l'appareil est enregistré.
2. Depuis le menu d'installation, utilisez la méthode préconisée pour accéder à l'option d'enregistrement de l'appareil et sélectionnez l'option correspondante pour ajouter un nouvel appareil.
3. Tirez sur la languette d'enregistrement ou insérez les piles pour mettre l'appareil sous tension et lancer la procédure d'auto-enregistrement.
Note : Vous pouvez aussi entrer l'ID : **xxx-xxxx** (numéro de l'appareil imprimé sur l'étiquette), ou appuyer sur le bouton d'enregistrement du détecteur pour démarrer la procédure d'enregistrement, si l'appareil ne s'enregistre pas automatiquement.
4. Sélectionnez le Numéro de zone voulu.
5. Configurez les paramètres nécessaires de l'appareil.
6. Montez et testez le détecteur. Pour savoir comment tester l'appareil, consultez la section Réalisation d'un test de déplacement. Consultez également le manuel d'installation des systèmes d'alarme dans lesquels l'appareil est enregistré pour connaître la procédure à suivre.

Remarques :

- Une fois le détecteur enregistré, vous pouvez configurer les paramètres du détecteur et affecter des partitions. Pour plus d'informations, voir Configuration des paramètres du détecteur .
- **PARTITIONS** n'apparaît que si la centrale autorise le partitionnement et que si la fonctionnalité est activée avant cette procédure. Pour plus d'informations, voir *Partitionnement* dans le manuel d'installation DSC.

Configuration des paramètres du détecteur

Modification de l'appareil

Pour modifier le PGx902, allez dans le menu **PARAM.D.L'APPAR.** et suivez les instructions de configuration ci-dessous.

- **LED ALRM :** Activez ou désactivez le voyant d'alarme.
 - Options : **LED ON** (par défaut) et **LED OFF**.
- **Couverture IR :** Sélectionnez une des trois portées, en fonction de vos préférences d'installation. Voir Définition de la portée du détecteur .
- **Anti-masque extérieur :** Activez ou désactivez la fonctionnalité d'anti-masque extérieur.
 - Options : **Désactivé** (par défaut) et **Activé**.
- **Période :** Paramétrez le détecteur de mouvements de façon que des alarmes soient émises en permanence ou uniquement lorsqu'il fait noir.
 - **Remarque :** pour les installations certifiées UL/ULC, la fonctionnalité Période doit seulement être utilisée pour assurer une protection nocturne, en complément de la protection déjà prévue pour la zone.
 - Options : **Jour et Nuit** (par défaut) et **Nuit**.
- **Direction de l'alarme :** Définissez la direction de la détection. La fonction de direction de l'alarme peut diviser par deux, voire plus, le risque de fausses alarmes lorsque le détecteur protège une porte ou un portail. Avec cette fonction, l'appareil fait la différence entre les résidents qui sortent du bâtiment et les intrus qui pénètrent dans les locaux.
 - **Remarque :** cette fonctionnalité n'est disponible que sur les centrales DSC version 20.2 et supérieure.
 - Options : **Les deux** (par défaut), **De gauche à droite**, **De droite à gauche**.
 - Voir Figure 24 pour un schéma du sens de l'alarme. Dans la , le Numéro 1 illustre un schéma de détection **De droite à gauche**, et le Numéro 2, un schéma de détection **De gauche à droite**. Les directions depuis la gauche et depuis la droite s'entendent par rapport à la position de l'installateur lorsqu'il observe le détecteur une fois fixé

- **TRS CHAUD :** Indiquez si la centrale doit envoyer une alerte **TRS CHAUD** lorsque la température dépasse la valeur **seuil** pendant au moins la durée indiquée par le **délai d'alerte**. L'alerte est rétablie lorsque la température repasse en dessous du **seuil** pendant au moins la durée du **délai de rétablissement**.
 - **Remarque :** pour **TRS CHAUD**, la valeur par défaut du **seuil** est 35°C. La valeur par défaut du **délai d'alerte** et du **délai de rétablissement** est de 10 minutes.
 - Options : Voir Configuration des alertes du détecteur.
- **FROID :** Indiquez si la centrale doit envoyer une alerte **FROID** lorsque la température descend sous la valeur **seuil** pendant au moins la durée du **délai d'alerte**. L'alerte est rétablie lorsque la température repasse au-dessus du **seuil** pendant au moins la durée du **délai de rétablissement**.
 - **Remarque :** pour **FROID**, la valeur par défaut du **seuil** est 19°C. La valeur par défaut du **délai d'alerte** et du **délai de rétablissement** est de 10 minutes.
 - Options : Voir Configuration des alertes du détecteur.

- **TRÈS FROID :** Indiquez si la centrale doit envoyer une alerte **TRÈS FROID** lorsque la température descend sous la valeur **seuil** pendant au moins la durée du **délai d'alerte**. L'alerte est rétablie lorsque la température repasse au-dessus du **seuil** pendant au moins la durée du **délai de rétablissement**.
 - **Remarque :** pour **TRÈS FROID**, la valeur par défaut du **seuil** est 7°C. La valeur par défaut du **délai d'alerte** et du **délai de rétablissement** est de 10 minutes.
 - Options : Voir Configuration des alertes du détecteur.

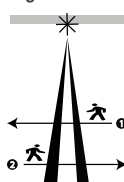
- **CONGELATR :** Indiquez si la centrale doit envoyer une alerte **CONGELATR** lorsque la température dépasse la valeur **seuil** pendant au moins la durée indiquée par le **délai d'alerte**. L'alerte est rétablie lorsque la température repasse en dessous du **seuil** pendant au moins la durée du **délai de rétablissement**.
 - **Remarque :** pour **CONGELATR**, la valeur par défaut du **seuil** est -10°C ou 14°F. La valeur par défaut du **délai d'alerte** et du **délai de rétablissement** est de 30 minutes.
 - Options : Voir Configuration des alertes du détecteur.

- **Désarmer l'activ :** Définissez la durée pendant laquelle le détecteur continue de détecter les mouvements au cours de la procédure de désarmement.
 - Options : **Non actif** (par défaut), **OUI – aucun délai**, **OUI + délai de 5 s**, **OUI + délai de 15 s**, **OUI + délai de 30 s**, **OUI + 1 min**, **OUI + 2 min**, **OUI + 5 min**, **OUI + 10 min**, **OUI + 20 min**, **OUI + 60 min**

Remarques :

- Pour déclencher une alarme ou un signal de rétablissement, la température doit dépasser le **seuil** pendant la durée requise.
- L'utilisateur peut accorder un accès à l'installateur afin qu'il puisse activer ou désactiver à distance le voyant d'indication.

Figure 24: Direction de détection



Configuration des alertes du détecteur

Configuration des alertes de température

Configurez chacune des quatre alertes de température : **TRÈS CHAUD**, **FROID**, **TRÈS FROID**, et

CONGELATR.

- **Seuil :** Affiche la dernière valeur **seuil** enregistrée. Pour modifier la valeur par défaut, cliquez sur le bouton Précédent ou Suivant pour **OK** ou augmenter la valeur et cliquez sur **OK**.
- **Désactiver/Activer :** Définit si la centrale signalera ou non une alerte.
- **Délai d'alerte :** Définit le temps écoulé avant qu'une alerte ne soit signalée lorsque la température est atteinte pendant la durée par défaut indiquée. Les valeurs de **délai d'alerte** sont : **Immédiatement**, **1 min**, **2 min**, **10 min**, **15 min**, **20 min**, **30 min**
- **Délai de rétablissement :** Définit le temps écoulé avant qu'une alerte de rétablissement soit signalée lorsque la température repasse sous la valeur **seuil**. Les valeurs de **délai de rétablissement** sont : **Immédiatement**, **1 min**, **2 min**, **10 min**, **15 min**, **20 min**, **30 min**

Définition de la portée du détecteur

Dans le menu **Installeur** de la centrale DSC, sélectionnez **02: ZONES/APPAREILS** et déplacez-vous dans le menu en suivant les indications Table 5 pour configurer la portée de détection de l'appareil.
Remarque : si vous enregistrez le PGx902 dans les centrales DSC de version 19.4 ou inférieure, le détecteur s'enregistre en tant que détecteur de mouvements PIR pour l'extérieur. L'appareil s'enregistre dans la centrale avec l'ID d'appareil **130-xxxx**, sous le nom de **IR extérieur**.

Table 5. Définition de la portée du détecteur

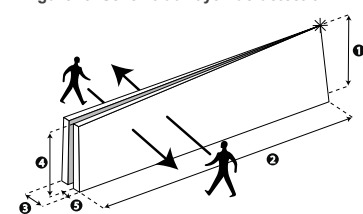
Centrale	>= V20.2	<= V19.4
Type d'appareil	PGx902: ID : 129-xxxx Rideau extérieur	TOWER-20AM: ID : 130-xxxx IR extérieur
Navigati-on dans le menu	1. 02:ZONES APPAREILS 2. PARAM.D.L' APPAR. 3. COUVERTURE IR	1. 02:ZONES APPAREILS 2. PARAM.D.L' APPAR. 3. SENSIBILITE PIR
Options/-Plage	MAXIMUM : 8 m MEDIUM : 5 m MINIMUM : 3 m	Haut: 8 m Bas: 3 m Un secteur: 8 m

Remarques :

La portée fait référence au Numéro 2 de la Figure 25.

Le symbole * indique le point de vue du détecteur et le début du rideau PIR.

Figure 25. Schéma du rayon de détection



Référence	Distance
1	2 m ou 6,56 ft
2	8 m ou 26,25 ft
3	0,75 m ou 2,46 ft
4	1,9 m ou 6,23 ft
5	0,25 m ou 0,82 ft

Insertion ou remplacement des piles

Avertissement : si vous remplacez les piles par des piles de type incorrect, une explosion peut se produire.
Remarque : lors du remplacement des piles, patientez une minute entre le moment où vous retirez les piles et celui où vous insérez des neuves.

1. Desserrez le vis inférieure du support et retirez le détecteur. Voir Figure 26 et Figure 27.
2. Avec le pouce, appuyez sur l'onglet situé sur le dessus du capot des piles pour l'ouvrir. Voir Figure 28.
3. Facultatif : pour remplacer les piles, retirez les piles usagées et insérez-en des neuves en orientant les

- Óptica parabólica y elíptica (patentada)
- La tecnología Target Specific Imaging™ (TSI) distingue entre humanos y mascotas que pesan hasta 18 kg o 40 lbs.
- El algoritmo True Motion Recognition™ (patentado) distingue entre el movimiento real de un intruso y cualquier otra perturbación que pueda causar falsas alarmas.
- Detección de dirección transversal: ambas direcciones, de izquierda a derecha y de derecha a izquierda.
- La capacidad antiemascaramiento inteligente activa reconoce el rocío y el polvo (patentado)
- No es necesario el ajuste horizontal.
- Larga duración de la batería debido al consumo ultrabajo de corriente.
- Protección contra manipulaciones en la parte delantera y trasera (patentado)
- Es compatible con informes de temperatura y nivel de luz según la versión del panel PowerG

Nota: Para instalaciones UL, use el detector solo con unidades de control listadas por UL.

Consejos para la instalación

Solo las personas de servicio calificadas pueden instalar PGx902. Antes de instalar el dispositivo, considere los siguientes puntos:

- Haga:**
- Instale PGx902 de acuerdo con la norma de Instalación y Clasificación de sistemas de alarma contra robo y atraco, UL 681.
 - Considere condiciones climáticas que pueden activar falsas alarmas, como las ramas de árboles u hojas en movimiento, y otras condiciones ambientales relacionadas.
 - Ubique el dispositivo a una distancia mínima de 20 cm de todas las personas durante el funcionamiento normal para cumplir con los requisitos de cumplimiento de exposición a RF de FCC e ISED Canadá.

No debe:

- Instalar el dispositivo en lugares peligrosos, en circuitos por encima de las sobretensiones de categoría II, o en áreas con un grado de contaminación mayor que el grado de contaminación 2.
- Obstruir el campo de visión del detector o instalar el dispositivo sobre terreno inclinado.
- Coubicar u operar las antenas utilizadas para este producto junto con cualquier otra antena o transmisor.

Notas:

- Los haces PIR pueden extenderse más allá de la distancia de cobertura del rango establecido si dirige el detector a un espacio abierto.
- Para proteger una ventana, monte el detector en una esquina superior del marco de la ventana para que las vigas PIR estén paralelas al panel de vidrio.
- Para calibrar la sensibilidad del detector a fin de identificar a las personas con mayor precisión, establezca el rango de detección del detector. Para obtener más información, consulte Tabla 9.
- En casos raros, un cambio extremo en la luz ambiental puede desencadenar una alerta falsa de antiemascaramiento. Si después de diez minutos la función de antiemascaramiento no se restablece automáticamente, desactive y active la configuración de antiemascaramiento. Para obtener más información, consultar Antimáscara exterior en Modificación del dispositivo.

Montaje de PGx902

1. Use el orificio superior y medio del soporte del dispositivo para marcar dos orificios en la superficie de montaje. Consulte el orificio número 1 y el orificio número 2 en la Figura 34.
2. Opcativo: Para aprovechar la protección contra manipulación indebida, utilice el orificio inferior en el segmento desprendible del soporte para marcar un tercer orificio en la superficie de montaje. Consulte el orificio número 3 en la Figura 34.
3. Perfore los orificios requeridos en la superficie de montaje de acuerdo con las marcas e inserte los enchufes de pared. Consulte la Figura 35.

4. Fije el soporte a la superficie de montaje con los tornillos. Consulte la Figura 36.
 5. Inserte las baterías en el detector y cierre la tapa de la batería. Para obtener más información, consulte Inserción o reemplazo de las baterías.
 6. Inserte la parte superior del detector en el soporte. Cuando inserte el detector, elija una ranura en el soporte que coloca el detector para cubrir el área que requiere protección. Consulte las Figuras 37 y Figura 38.
- Nota:** Cuando complete el Paso 6, una luz LED parpadeante le indicará el inicio del procedimiento de autocalibración de manipulación.
- Nota:** Cuando el detector descansa sobre el soporte desatornillado, se puede girar libremente hasta una posición final más exacta. Consulte el orificio número 1 en la Figura 39.
7. Mientras la luz LED parpadea, ajuste el tornillo inferior para cerrar el soporte. Consulte número 2 en la Figura 39.
- Nota:** Si la luz LED amarilla deja de destellar antes de apretar adecuadamente el tornillo, retire el detector del soporte y espere tres segundos. Repita el paso 6 para iniciar el procedimiento de autocalibración.

Figura 34: Marcado de orificios para tornillos

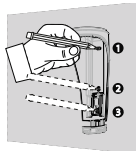


Figura 36: Sujeción del soporte

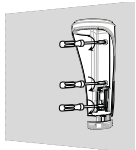


Figura 38: Ranurado al dispositivo



Figura 35: Perforación de orificios para tornillos

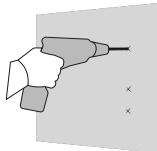


Figura 37: Ranura de rotación

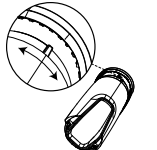
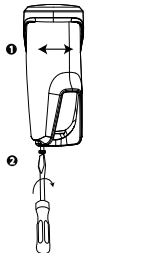


Figura 39: Cierre del soporte



Registro del PGx902

Para inscribir PGx902, desde el menú del Instalador, seleccione **02: ZONAS/DISPOSITIVOS** y complete los pasos en el siguiente procedimiento:

Nota:

- Úsese solo en combinación con los paneles de control listados por UL/ULC para las instalaciones listadas por UL/ULC.
- Si inscribe PGx902 en los paneles de DSC con una versión 19.4 o inferior, el detector se inscribe como un detector de movimiento PIR al aire libre. El dispositivo se inscribe en el panel con el ID de dispositivo, **130-xxxx**, y el nombre, **Motion Outd.**

1. Para asegurarse de que se utilizan los pasos adecuados, consulte el manual de instalación del

sistema de alarma en el que se está inscribiendo el dispositivo.

2. Desde el menú de instalación, ingrese la opción de inscripción del dispositivo a través del método especificado y seleccione la opción apropiada para agregar el nuevo dispositivo.
 3. Tire de la lengüeta de registro o inserte las pilas para encender el dispositivo e iniciar el proceso de inscripción automática.
- Nota:** También puede introducir el ID: **XXX-XXXX** (el número del dispositivo que figura en la etiqueta), o presionar el botón de registro en el detector para iniciar el proceso de registro si el dispositivo no se registra automáticamente.
4. Elija el número de la zona deseada.
 5. Configure todo parámetro del dispositivo que sea necesario.
 6. Instalar y probar el detector. Consulte Realización de un test de zonas para obtener información sobre cómo probar el dispositivo. Además, puede consultar el Manual de instalación de los sistemas de alarma en el que está inscrito el dispositivo para otros procedimientos de prueba necesarios.

Nota:

- Después de registrar el detector, puede configurar los parámetros del detector y asignar particiones. Consulte Configuración de parámetros del detector para obtener más información.
- La opción **PARTICIONES** aparece solo si el panel admite la partición y la función se habilitó antes de este procedimiento. Para obtener más información, consulte *Particionamiento* en la DSC guía de instalación.

Configuración de parámetros del detector

Modificación del dispositivo

Para modificar PGx902, ingrese al menú **CONFIGURACIONES DEL DISPOSITIVO** y siga las instrucciones de configuración abajo.

- **LED Alarma:** Activo o desactive la indicación de alarma LED.
 - Configuración opcional: indicador **LED ON** (encendido) (predeterminado) e indicador **LED OFF** (apagado).
- **Rango PIR:** Seleccione uno de los tres rangos, de acuerdo con su preferencia de instalación. Consulte Configuración del rango del detector.
- **Antimáscara exterior:** Habilite o deshabilite la función de antiemascaramiento exterior.
 - Configuraciones opcionales: **Deshabilitado** (predeterminado) y **Habilitado**.
- **Horas de alarma:** Ponga el detector de movimiento en alarma siempre o solo cuando esté oscuro.
 - **Nota:** Para la instalación de UL/ULC, solo use la función de horas de alarma para la protección nocturna como complemento de la protección que ya cubre el área.
 - Configuraciones opcionales: **Día y noche** (predeterminado) y **Solo noche**.
- **Dirección de alarma:** Defina la dirección de detección. La función de dirección de alarma puede reducir la probabilidad de falsas alarmas en más de la mitad cuando el detector protege una puerta o una compuerta. Con esta función, el dispositivo puede diferenciar entre los habitantes de propiedades que salen y los posibles intrusos que ingresan a las instalaciones.
 - **Nota:** Esta función solo está disponible en DSC paneles de la versión 20.2 y superior.
 - Configuraciones opcionales: **Ambos** (predeterminado), **Izquierda a derecha**, **Derecha a izquierda**.
 - Consulte la para ver el diagrama de dirección de la alarma. En la , el número 1 muestra un patrón de detección de **Derecha a izquierda** y el número 2 muestra un patrón de detección de **Izquierda a derecha**. Las direcciones derecha e izquierda se refieren al punto de vista del instalador mientras observa el detector en su posición fija.
- **MUY CALIENTE:** Defina si el panel de control informa o no una alerta **MUY CALIENTE** cuando la

temperatura sube por encima del valor de **umbral**, al menos, durante el tiempo especificado en el valor de **retardo de alerta**. La restauración de alerta se produce cuando la temperatura cae 1° C o 1,8° F por debajo del **umbral**, al menos, durante el valor de **retraso de restauración**.

- **Nota:** El valor de **umbral** predeterminado para **MUY CALIENTE** es 35 °C o 95 °F. El valor de **retraso de alerta** predeterminado y el **valor de retraso de restauración** predeterminado son 10 minutos.
- Configuraciones opcionales: Consulte Configuración de alertas de temperatura.
- **FRÍO:** Defina si el panel de control informa una alerta de **FRÍO** cuando la temperatura cae por debajo del valor de **umbral**, al menos, durante el tiempo especificado en el valor de **retardo de alerta**. La restauración de alerta se produce cuando la temperatura aumenta 1° C o 1,8° F por encima del valor de **umbral**, al menos, durante el valor de **retraso de restauración**.
 - **Nota:** El valor de **umbral** predeterminado para **FRÍO** es 19 °C o 66 °F. El valor de **retraso de alerta** predeterminado y el **valor de retraso de restauración** predeterminado son 10 minutos.
 - Configuraciones opcionales: Consulte Configuración de alertas de temperatura.
- **CONGELACIÓN:** Defina si el panel de control informa o no de una alerta de **CONGELACIÓN** cuando la temperatura desciende por debajo del valor de **umbral**, al menos, por la duración especificada en el valor de **retardo de alerta**. La restauración de alerta se produce cuando la temperatura aumenta 1° C o 1,8° F por encima del valor de **umbral**, al menos, durante el **valor de retraso de restauración**.
 - **Nota:** El valor de **umbral** predeterminado para la **CONGELACIÓN** es de 7° C o 45° F. El valor de **retraso de alerta** predeterminado y el **valor de retraso de restauración** predeterminado son 10 minutos.
 - Configuraciones opcionales: Consulte Configuración de alertas de temperatura.

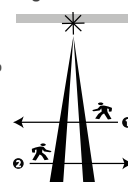
• **CONGELADOR:** Defina si el panel de control informa o no de una alerta de **CONGELADOR** cuando la temperatura sube por encima del valor de **umbral** por lo menos durante el tiempo especificado en el valor de **retardo de alerta**. La restauración de alerta se produce cuando la temperatura cae 1° C o 1,8° F por debajo del valor de **umbral** por lo menos durante la duración del valor de **valor de retraso**.

- **Nota:** El valor de **umbral** predeterminado para la **CONGELADOR** es -10° C o 14° F. El valor de **retraso de alerta** predeterminado y el **valor de retraso de restauración** predeterminado son 30 minutos.
- Configuraciones opcionales: Consulte Configuración de alertas de temperatura.
- **Desarmar Actividad:** Defina el tiempo durante el cual el sensor continúa detectando movimiento durante el proceso de desarmado.
- Configuraciones opcionales: **NO activo** (predeterminado), **Sí - sin demora**, **Sí + 5 s demora**, **Sí + 15 s demora**, **Sí + 30 s demora**, **Sí + 1 min**, **Sí + 2 min**, **Sí + 5 min**, **Sí + 10 min**, **Sí + 20 min**, **Sí + 60 min**

Nota:

- Para generar una alarma o restaurar la transmisión, la temperatura debe superar el valor de **umbral** durante el tiempo requerido.
- El usuario puede dar acceso al instalador para habilitar o deshabilitar remotamente el indicador LED.

Figura 40: Dirección de detección



Configuración de alertas de temperatura

Configure cada una de las cuatro alertas de temperatura: **MUY CALIENTE**, **FRÍO**, **CONGELADO** y **CONGELADOR**.

- **Umbral:** Muestra el último valor de **umbral** guardado. Para cambiar el valor predeterminado, haga clic en el botón **Atrás** o **Siguiente** para disminuir o aumentar el valor y haga clic en **ACEPTAR**.
- **Desactivado/Activado:** Define si el panel informará una alerta o no.
- **Retardo de alerta:** Define la cantidad de tiempo que debe transcurrir antes de que se notifique una alerta cuando la temperatura excede la duración predeterminada definida. Los valores de tiempo de **retardo de alerta** son: **Inmediato**, **1 minuto**, **2 minutos**, **10 minutos**, **15 minutos**, **20 minutos**, **30 minutos**
- **Retardo de restauración:** Define la cantidad de tiempo que debe transcurrir antes de que se notifique una alerta de restauración cuando la temperatura regresa por debajo del valor de **umbral**. Los valores de tiempo de **retardo de restauración** son: **Inmediato**, **1 minuto**, **2 minutos**, **10 minutos**, **15 minutos**, **20 minutos**, **30 minutos**

Configuración del rango del detector

Desde el DSC menú del instalador del panel, seleccione **02: ZONAS/ DISPOSITIVOS** y siga la ruta del menú que se muestra en la para configurar el rango de detección del dispositivo.

Nota: Si inscribe los PGx902 en DSC en los paneles en la versión 19.4 o inferior, el detector se inscribe como un detector de movimiento PIR al aire libre. El dispositivo se inscribe en el panel con el ID de dispositivo, **130-xxxx**, y el nombre, **Motion Outd.**

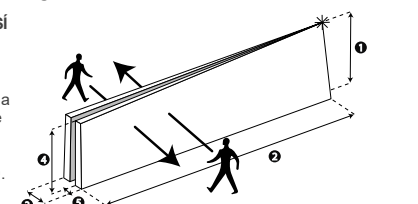
Tabla 9. Configuración del rango del detector

Panel	>= V20.2	<= V19.4
Tipo de dispositivo	PGx902: ID: 129-xxxx S.OutCurtain	TOWER-20AM: ID: 130-xxxx Movimiento externo.
Menú de ruta	1. 02: ZONAS/ DISPOSITIVOS 2. CONFIGURACIÓN DE DISPOSITIVO 3. RANGO PIR	1. 02: ZONAS/ DISPOSITIVOS 2. CONFIGURACIÓN DE DISPOSITIVO 3. SENSIBILIDAD PIR
Opciones/Margen	Maximum: 8 m Medium: 5 m Minimum: 3 m	Alta: 8 m Baja: 3 m Una región: 8 m

Nota:

- El rango se refiere al número 2 en la Figura 41.
- El símbolo * significa el punto de vista del detector y el comienzo de la cortina PIR.

Figura 41: Patrón de detección de haz



Referencia	Distancia
1	2 m o 6,56 ft
2	8 m o 26,25 ft
3	0,75 m o 2,46 ft
4	1,9 m o 6,23 ft
5	0,25 m o 0,82 ft

- estimação pequeno/animal de estimação com peso inferior a 18 kg (40 lb)]
- Sensibilidade de detecção ajustável de até 8 metros (26,2 pés)
- Lentes Advanced Obsidian Black Mirror™ parabólicas e elípticas (patenteadas)
- Tecnologia Target Specific Imaging™ (TSI) (usada para distinguir entre seres humanos e animais de estimação pesando até 18 kg / 40 lb)
- Algoritmo True Motion Recognition™ (patenteado) que diferencia os verdadeiros movimentos de um invasor e quaisquer outros distúrbios que possam causar alarmes falsos
- Deteção de direção cruzada (esquerda para a direita e direita para a esquerda)
- O antimascaramento inteligente diferencia entre spray de mascaramento e chuva
- Nenhum ajuste vertical necessário
- Bateria de longa duração devido ao consumo de corrente ultrabaixo
- Proteção contra violação frontal e traseira
- Suporta avisos de temperatura e nível de luz de acordo com o painel do PowerG

Observação: para instalações UL, use o detector com unidades de controle listadas pela UL apenas.

Conselho de instalação

Somente pessoas qualificadas podem instalar o PGx902. Antes de instalar o dispositivo, considere os seguintes pontos:

- Faça:**
- Instale o PGx902 de acordo com as normas de instalação e classificação de sistemas de alarme contra ladrões e assaltos, UL 681.
 - Monte o detector de forma que o movimento esperado do intruso cruze o feixe PIR.
 - Localize o dispositivo a uma distância de pelo menos 20 cm de todas as pessoas durante a operação normal, de acordo com os requisitos de conformidade de exposição à RF da FCC e ISED Canadá.
 - Instale o dispositivo em locais perigosos, em áreas com um grau de poluição superior ao grau de poluição 2, em circuitos acima das sobretensões da categoria II.
 - Obscureça o campo de visão do detector ou instale o dispositivo em um terreno inclinado.
 - Coloque ou opere as antenas usadas para este produto em conjunto com qualquer outra antena ou transmissor.

Observações:

- Os feixes PIR podem se estender além da distância de cobertura definida, se você direcionar o detector em um espaço aberto.
- Para calibrar a sensibilidade do detector para identificar pessoas com mais precisão, defina a faixa de detecção do detector. Para obter mais informações, consulte Configuração dos parâmetros do detector.
- Em raros casos, uma mudança brusca na iluminação ambiente pode causar um alerta falso de antimascaramento. Se a funcionalidade antimascaramento não for redefinida automaticamente após dez minutos, desative e reative a configuração do antimascaramento. Para mais informações, consulte Antimascaramento exterior em Modificando do dispositivo.
- Para proteger uma janela, monte o detector em um canto superior da moldura da janela, de forma que os feixes PIR fiquem paralelos ao vidro.

Montagem do PGx902

- Use os orifícios superiores e médios no suporte do dispositivo para marcar dois orifícios na superfície de montagem. Veja o Número inteiro 1 e o Número inteiro 2 na Figura 50.
- Opcional: Para aproveitar a proteção contra violação, use o orifício mais inferior no segmento destacável do suporte para marcar um terceiro orifício na superfície de montagem. Veja o Número inteiro 3 na Figura 50.
- Faça os furos necessários na superfície de montagem de acordo com as marcações e insira as buchas. Veja a Figura 51.

- Fixe o suporte à superfície de montagem com parafusos. Veja a Figura 52.
- Insira as baterias no detector e feche a tampa das baterias. Para obter mais informações, consulte Inserir ou trocar as baterias.
- Insira a parte superior do detector no suporte. Ao inserir o detector, escolha um slot no suporte que posicione o detector para cobrir a área que requer proteção. Veja a Figura 53 e a Figura 54.
- Observação:** ao concluir a Etapa 6, um LED piscando indica o início do procedimento de autocalibração de violação.
- Observação:** quando o detector está apoiado no suporte desrosqueado, ele pode ser girado livremente para uma posição final mais exata. Veja o Número inteiro 1 na Figura 55.
- Enquanto o LED estiver piscando, aperte o parafuso inferior para fechar o suporte. Veja o número 2 na Figura 55.
- Observação:** se o LED amarelo parar de piscar antes de o parafuso ter sido apertado corretamente, remova o sensor do suporte e aguarde três segundos. Repita a etapa 6 para iniciar o procedimento de autocalibração.

Figura 50: Marcação de furos para parafuso

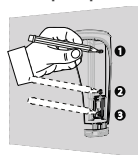


Figura 52: Fixação do suporte

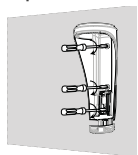


Figura 54: Como encaixar no dispositivo

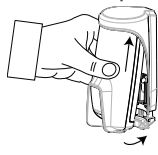


Figura 51: Perfuração de furos para parafuso

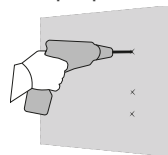


Figura 53: Encaixe de rotação

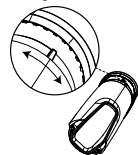
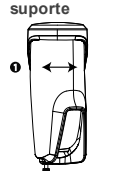


Figura 55: Fechando o suporte



Registrando o PGx902

Para registrar o PGx902, no menu **Instalador**, selecione **02: ZONAS/DISPOSITIVOS** e conclua as etapas no procedimento a seguir:

Observações:

- Utilize apenas em conjunto com os painéis de controle listados pela UL/ULC para instalações listadas pela UL/ULC.
- Se você registrar o PGx902 em painéis DSC com a versão 19.4 ou anteriores, o detector será registrado como um detector de movimento PIR para ambientes externos. O dispositivo registra-se no painel com o ID do dispositivo **130-xxxx** e o nome **Motion Outd.**

- Para garantir que as etapas apropriadas sejam usadas, consulte o manual de instalação do sistema

- de alarme no qual o dispositivo está sendo registrado.
- No menu de instalação, entre a opção de registro de dispositivo pelo método especificado e selecione a opção apropriada para adicionar o novo dispositivo.
- Empurre a guia de registro ou insira as baterias para ligar o dispositivo e comece o processo de registro automático.
- Note:** Também é possível inserir ID: xxx-xxxx (o número do dispositivo impresso na etiqueta), ou pressionar o botão Registrar no detector para iniciar o processo de registro se o dispositivo não for registrado automaticamente.
- Selecione o número da zona desejada.
- Configure os parâmetros necessários do dispositivo.
- Monte e teste o detector. Consulte Executando um teste de caminhada para obter informações sobre como testar o dispositivo. Além disso, consulte o manual de instalação dos sistemas de alarme nos quais o dispositivo foi registrado para ver outros procedimentos de teste que são necessários.

Observações:

- Depois de registrar o detector, você pode configurar os parâmetros do detector e atribuir partições. Consulte Configuração dos parâmetros do detector para obter mais informações.
- PARTIÇÕES** aparece apenas se o painel suportar o particionamento e o recurso tiver sido ativado antes desse procedimento. Para obter mais informações, consulte *Particionamento* no DSC guia de instalação.

Configuração dos parâmetros do detector

Modificando o dispositivo

Para modificar o PGx902, entre no menu **CONFIGURAÇÕES DO DISPOSITIVO** e siga as instruções de configuração abaixo.

- LED de alarme:** Ativar ou desativar a indicação do LED de alarme.
 - Configurações opcionais: **LED LIG** (padrão) e **LED DESL.**
- Intervalo PIR:** Selecione um dos três intervalos, de acordo com sua preferência de instalação. Consulte Definir o intervalo do detector.
- Antimascaramento exterior:** Ativa ou desativa o recurso de anticobertura para ambientes externos.
 - Configurações opcionais: **Desativado** (padrão) e **Ativado**.
- Horas alarme:** Configure o detector de movimento para o alarme sempre ou somente quando estiver escuro.
 - Observação:** para a instalação da UL/ULC, use somente o recurso horas alarme para proteção noturna com o complemento à proteção que já abrange a área.
 - Configurações opcionais: **Dia e noite** (padrão) e **Somente noite**.
- Direção do alarme:** Defina a direção da detecção. A função de direção do alarme pode reduzir a probabilidade de alarmes falsos em mais da metade quando o detector está protegendo uma porta ou portão. Com essa função, o dispositivo pode diferenciar entre os residentes da propriedade que saem e os potenciais invasores que entram nas instalações.
 - Observação:** este recurso está disponível apenas em painéis DSC versão 20.2 e superior.
 - Configurações opcionais: **Ambos** (padrão), **Esquerda para a direita**, **Direita para esquerda**.
 - Veja a para o diagrama de direção do alarme. Na Número 1 mostra um padrão de detecção da **Direita para a esquerda** e Número 2 mostra um padrão de detecção da **Esquerda para a direita**. As direções direita e esquerda referem-se ao ponto de vista do instalador enquanto observa o detector em sua posição fixa.
- MUITO QUENTE:** Defina se o painel de controle informará ou não um alerta **MUITO QUENTE** quando a temperatura subir acima do valor **limite** por pelo menos a duração especificada no valor do **atraso do alerta**. A restauração do alerta ocorrerá quando a temperatura cair 1°C ou 1,8°F abaixo do **limite** por

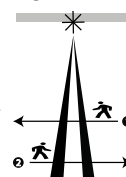
pelo menos a duração do valor do **atraso de restauração**.

- Observação:** o valor de **limite** padrão para **MUITO QUENTE** é 35°C ou 95°F. O valor do **atraso do alerta** padrão e o valor do **atraso de restauração** padrão é 10 minutos.
- Configurações opcionais: Consultar Configuração dos alertas de temperatura
- FRIO:** Defina se o painel de controle informará ou não um alerta **FRIO** quando a temperatura cair abaixo do valor **limite** por pelo menos a duração especificada no valor do **atraso do alerta**. A restauração do alerta ocorrerá quando a temperatura subir 1°C ou 1,8°F acima do valor de **limite** por pelo menos a duração do **atraso de restauração**.
 - Observação:** o valor de **limite** padrão para **FRIO** é 19°C ou 66°F. O valor do **atraso do alerta** padrão e o valor do **atraso de restauração** padrão é 10 minutos.
 - Configurações opcionais: Consultar Configuração dos alertas de temperatura
- CONG.:** Defina se o painel de controle informará ou não um alerta **CONG.** quando a temperatura cair abaixo do valor **limite** por pelo menos a duração especificada no valor do **atraso do alerta**. A restauração do alerta ocorrerá quando a temperatura subir 1°C ou 1,8°F acima do valor de **limite** por pelo menos a duração do valor do **atraso de restauração**.
 - Observação:** o valor de **limite** padrão para **CONG.** é 7°C ou 45°F. O valor do **atraso do alerta** padrão e o valor do **atraso de restauração** padrão é 10 minutos.
 - Configurações opcionais: Consultar Configuração dos alertas de temperatura
- FREEZER:** Defina se o painel de controle informará ou não um alerta **FREEZER** quando a temperatura subir acima do valor **limite** por pelo menos a duração especificada no valor do **atraso do alerta**. A restauração do alerta ocorrerá quando a temperatura cair 1°C ou 1,8°F abaixo do valor de **limite** por pelo menos a duração do valor do **atraso de restauração**.
 - Observação:** o valor de **limite** padrão para **FREEZER** é -10°C ou 14°F. O valor do **atraso do alerta** padrão e o valor do **atraso de restauração** padrão é 30 minutos.
 - Configurações opcionais: Consultar Configuração dos alertas de temperatura
- Atividade de desarme:** Defina o período que o sensor continua a detectar o movimento durante o processo de desarmamento.
 - Configurações opcionais: **NÃO Ativo** (padrão), **SIM - sem atraso**, **SIM + 5 s atraso**, **SIM + 15 s atraso**, **SIM + 30 s atraso**, **SIM + 1 min**, **SIM + 2 min**, **SIM + 5 min**, **SIM + 10 min**, **SIM + 20 min**, **SIM + 60 min**

Observações:

- Para gerar um alarme ou restaurar a transmissão, a temperatura deve ultrapassar o valor do **limite** durante o tempo necessário.
- O usuário pode dar acesso ao instalador para ativar ou desativar remotamente o LED de indicação.

Figura 56: Direção de detecção



Configuração dos alertas de temperatura

Cada um dos quatro alertas de temperatura: **MUITO QUENTE**, **FRIO**, **CONGELADO** e **FREEZER**.

- Limite:** Exibe o último valor de **limite** salvo. Para alterar o valor padrão, clique no botão voltar ou próximo para diminuir ou aumentar o valor e clique em **OK**.
- Desabilitar/Habilitar:** Defina se o painel exibirá ou não um alerta.

- Atraso do alerta:** Defina o tempo a ser passado antes que um alerta seja relatado quando a temperatura exceder a duração padrão definida. Os valores do tempo de **atraso do alerta** são: **Imediatamente**, **1 min**, **2 min**, **10 min**, **15 min**, **20 min**, **30 min**
- Atraso de restauração:** Defina o tempo a ser passado antes que um alerta de restauração seja informado quando a temperatura retornar abaixo do valor de **limite**. Os valores do tempo de **atraso de restauração** são: **Imediatamente**, **1 min**, **2 min**, **10 min**, **15 min**, **20 min**, **30 min**

Definir o intervalo do detector

No menu do instalador do painel do DSC, selecione **02: ZONAS/DISPOSITIVOS** e siga o caminho do menu exibido na para configurar o intervalo de detecção do dispositivo.

Observação: se você registrar o PGx902 em painéis DSC com a versão 19.4 ou anteriores, o detector será registrado como um detector de movimento PIR para ambientes externos. O dispositivo registra-se no painel com o ID do dispositivo **130-xxxx** e o nome **Motion Outd.**

Tabela 13. Definir o intervalo do detector

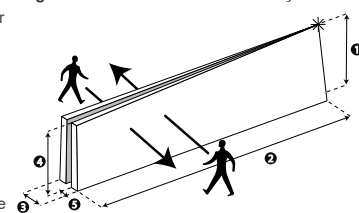
Painel	>= V20.2	<= V19.4
Tipo de dispositivo	PGx902: ID: 129-xxxx S.OutCurtain	TOWER-20AM: ID: 130-xxxx Movim. ext.
Caminho do menu	1. 02: ZONAS/DISPOSITIVOS 2. CONFIG DISPOSITIVO 3. INTERVALO PIR	1. 02: ZONAS/DISP 2. CONFIG DISPOSITIVO 3. SENSIBILIDADE PIR
Opções/Intervalo	ALCANÇE MÁXIMO: 8 m ALCANÇE MÉDIO: 5 m ALCANÇE MÍNIMO: 3 m	Alto: 8 m Baixo: 3 m Uma região: 8 m

Observações:

O intervalo refere-se a Número 2 na .

O símbolo ✱ significa o ponto de vista do detector e o início da cortina PIR.

Figura 57: Padrão de feixe de detecção



Referência	Distância
1	2 m ou 6,56 ft
2	8 m ou 26,25 ft
3	0,75 m ou 2,46 ft
4	1,9 m ou 6,23 ft
5	0,25 m ou 0,82 ft

Inserir ou trocar as baterias

Aviso: se você trocar as baterias por um tipo incorreto, haverá risco de explosão. **Observação:** quando você trocar as baterias, espere um minuto depois que as baterias forem removidas antes de inserir as novas baterias.

- Desparafuse o parafuso inferior do suporte e remova o detector. Veja a Figura 58 e Figura 59.
- Pressione o encaixe localizado na parte superior da tampa da bateria com o polegar para abrir a tampa da bateria. Veja a Figura 60.
- Opcional: para substituir as baterias, remova as baterias usadas e insira as baterias com os símbolos (+) e (-) correspondentes à ilustração encontrada no

