



D-307315

tyco PG9307 PowerG recessed door/window contact

The PG9307 is a discreet, supervised, 2- way wireless PowerG magnetic contact device. The PG9307 uses a replaceable lithium battery and should last up to 10 years under normal usage.

Legend

- A. Door/window contact housing
- B. Breakable screw ears
- C. Contact cover and circuit board
- D. Magnet cover
- E. Magnet with double-sided tape

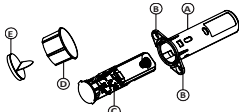


Figure 1. Recessed door/window contact

Inserting or replacing the battery

CAUTION! This product uses lithium batteries. Improper handling of lithium batteries may result in HEAT GENERATION, EXPLOSION or FIRE, which may lead to personal injuries.

WARNING! Danger of explosion if batteries are installed incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and according to local rules and regulations.

Keep away from small children: if swallowed promptly see a doctor. Do not try to recharge these batteries.

NOTE: Battery replacement should be done by an installer.

1. Insert a small, flat-head screwdriver into the slots on the side of the contact housing and release the contact cover.
2. Pull out the cover from the door/window contact housing.
3. Observe the polarity and insert or replace the battery.
4. Reinsert the contact cover (with circuit board attached).

Enrollment

Refer to the panel installation manual for the enrollment procedure.

A general description of the procedure is provided in the following flow chart:

Step Procedure

1. See the Installation Manual for the alarm system that the device is being enrolled on to ensure that the proper steps are used.
2. Enter the device enrollment option through the specified method and select the appropriate option to add the new device.
3. Insert the battery and wait for the panel to detect the device automatically or enter the device ID: 108-xxxx.
4. Select the desired zone number.
5. Configure any device parameters that are required.
6. Mount and test the device. See Placement Testing 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.

Performing a placement test

Before you permanently mount any wireless device, temporarily mount the device and perform a placement test on the door frame, as close as possible to the planned installation area. This is for checking the radio link.

1. To tamper the device, pull the cover attached to the device.
2. Reinsert the cover to restore the tamper. The device now enters placement test mode for 15 minutes.
3. Trip the device by opening the door or window and verify that the red LED blinks, indicating detection.

After 2 seconds the LED blinks 3 times. The following table indicates the received signal strength.

LED Response	Signal Strength
Green LED blinks	STRONG
Orange LED blinks	GOOD
Red LED blinks	POOR
No blinks	No communication

IMPORTANT! Only GOOD or STRONG signal strengths are acceptable. If you receive a POOR signal from the device, re-locate it and re-test until a GOOD or STRONG signal is received.

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.

NOTE: For detailed Placement instructions refer to the control panel reference manual.

NOTE: When enrolling PG9307 to a wireless panel with a version that is not supporting the device ID, it will be detected as W/D contact with ID: 100-xxxx

NOTE: Restoring the tamper when the panel is on registration/ listening mode for a new device - will generate a new request to enroll the device. Do not restore the tamper/close the housing in this panel mode, unless when adding a new device through this method.

Installation tips

WARNING! To comply with FCC and ISED Canada RF exposure compliance requirements, the contact should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter.

NOTE:The PG9307 PowerG recessed door/window contact shall be installed and used within an environment that provides the pollution degree max 2 and overvoltages category II in NON HAZARDOUS LOCATIONS. The equipment is designed to be installed only by qualified service persons. It is recommended to install the contact in the door frame and the magnet in the door.

NOTE:Before drilling holes, test the location. Temporarily mount the contact and magnet and perform a placement test. Once drilled, the signal quality may be impacted.

Gap separation

The following table outlines the gap separation information.

	Axis	Magnet Approaching Contact mm (in)	Magnet leaving Contact mm (in)
	Steel	X 16.0 (0.63)	20.0 (0.79)
	Steel	Y 19.0 (0.75)	24.0 (0.94)
	Steel	Z 20.0 (0.79)	24.0 (0.94)
	Wood	X 18.0 (0.71)	23.0 (0.90)
	Wood	Y 24.0 (0.94)	36.0 (1.42)
	Wood	Z 21.0 (0.83)	26.0 (1.02)

The recommended maximum gap separation for installation (on specified materials and Axis Z) is 6 mm (0.24 in.).

NOTE: Installation on metal door/window frame might decrease the RF range and battery life.

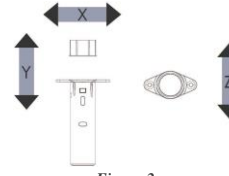
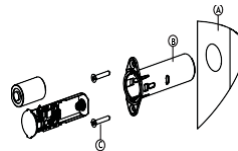


Figure 2.

Mounting the device

NOTE: There are various ways to mount the device. This procedure outlines one option for installation. Allow 3mm minimum between the door and frame.



- A. Door frame
- B. Recessed door/window contact
- C. Screws

Figure 3: Mounting the recessed door/window contact

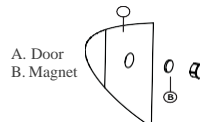


Figure 4: Mounting the magnet

Install the device in the door frame, and install the magnet on the door. Install the device and magnet on either the side or the top of the door and the door frame.

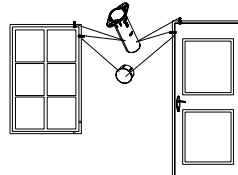


Figure 5.

Mark the locations for the door/window contact and the magnet. Ensure that the locations for the contact and the magnet are correctly aligned.

Sensor installation

Install the sensor by the following steps:

1. Use a 3/4 drill bit to slowly drill a 3/4 inch hole for the door/window contact in the door frame.

2. Fasten the contact housing to the mounting surface with the two screws and insert the cover. If there is no 3mm gap available between the door and the frame, two step drilling is necessary. Using a 22mm tool, drill a 2mm shallow, followed by a 70mm deep hole with a 19mm tool. Break the slot ears, clean the sharp edges and insert the device. The device is recessed inside the frame, not interfering with the door.

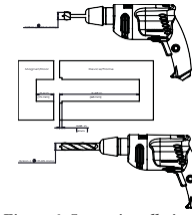


Figure 6: Sensor installation

Magnet installation.

Install the magnet by either of the following options:

1. By drilling:
 - a. Use a 3/4 inch drill bit to create a 15mm deep hole.
 - b. Peel off the double-sided tape on the magnet and stick it inside the magnet cover (part D).
2. By using the double-sided tape without the magnet housing:
 - a. Peel off the double-sided tape on the magnet and stick it on the door/window.

NOTE: Option 2 is possible only when there is a minimum gap of 2 mm between the door and the door frame.

Optional: Use a sticker on both the contact cover and the magnet cover to match the color of the door or the door frame.

Specifications

Frequency	912 MHz to 919 MHz
Communication protocol	PowerG
Maximum power	+14 dBm
Battery type	Panasonic or GP, 3V CR-2 or equivalent lithium battery
Battery life expectancy	Up to 10 years (with typical use)
Battery supervision	Signaling at 256 s intervals
Low battery trouble level	2.5 V
Temperature range	-10 °C to +50 °C
Relative humidity	5% to 93% non condensing
Magnet type	Rare earth
Contact size (HxD)	67.5 mm x 19.05 mm / 2.66 inches x 0.75 inches
Magnet cover size (HxD)	12.6 mm x 19.05 mm / 0.51 inches x 0.75 inches
Magnet size (HxD)	17.01 mm x 2.03 mm / 0.67 inches x 0.08 inches
Weight (with battery and magnet)	0.83 oz (25 g)
Color	White or clear
Housing material	Polycarbonate



Figure 7.

Compatible receivers

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

UL/ULC Notes

Only model PG9307 operating in the frequency band 912-919MHz is UL/ULC listed. The PG9307 has been listed by UL for commercial and residential burglary applications and by ULC for residential burglary applications in accordance with the requirements in the Standards UL 634 and ULC ORD-C634for Connectors and Switches. For UL/ULC installations use this device 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 product functionality in conjunction with the compatible receiver used.

FCC COMPLIANCE STATEMENT

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

FCC ID: F5318PG9307

Innovation Science and Economic Development Canada (ISED) Statement

This equipment complies with FCC and ISED Canada RF radiation exposure limits set forth for an uncontrolled environment. This device complies with FCC Rules Part 15 and with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation. Le présent appareil est conforme aux CNR d'ISED Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. IC: 160A-PG9307

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Digital Security Controls (DSC) warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, DSC shall, at its option, repair or replace the defective equipment upon return of the equipment to its factory. 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 DSC such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment. The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of DSC. This warranty



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Contact encastré pour porte/fenêtre PowerG PG9307

Le PG9307 est un émetteur à contact magnétique bidirectionnel PowerG sans fil, discret et géré. Le PG9307 utilise une pile lithium remplaçable offrant jusqu'à 10 ans en conditions d'utilisation normales

Légende

- Boîtier du contact pour porte/fenêtre
- Ailettes de vis cassables

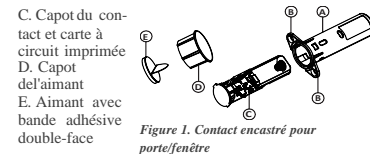


Figure 1. Contact encastré pour porte/fenêtre

Insertion ou remplacement de la pile

ATTENTION: Ce produit utilise des piles au lithium. Toute manipulation incorrecte des piles au lithium peut entraîner une ÉMISSION DE CHALEUR, une EXPLOSION ou un INCENDIE pouvant entraîner des blessures.

ATTENTION: Mal positionnées, les piles pourraient exploser. Remplacez les piles uniquement avec des piles du modèle conseillé par le fabricant, ou par un modèle équivalent. Mettez les piles usagées au rebut en suivant les instructions du fabricant et conformément aux règles et réglementations locales. Tenez-les hors de portée des enfants : en cas d'ingestion, consultez immédiatement un médecin. N'essayez pas de recharger ces piles. **REMARQUE:** Le remplacement de la pile doit être effectué par un installateur.

- Insérez un petit tournevis plat dans les fentes latérales du boîtier du contact et libérez le capot.
- Retirez le capot du boîtier du contact pour fenêtre/porte.
- Respectez la polarité et insérez ou remplacez la pile.
- Remettez en place le capot du contact (avec carte à circuit imprimée fixée).

Enregistrement

Pour des informations détaillées sur la procédure d'enregistrement, consultez le manuel d'installation de la centrale. Une description générale de la procédure est indiquée dans le tableau suivant :

Étape Procédure

- Consultez le manuel d'installation du système d'alarme dans lequel l'appareil est enregistré afin de suivre la procédure adéquate.
- Utilisez la méthode préconisée pour accéder à l'option d'enregistrement de l'appareil et sélectionnez l'option correspondante pour ajouter un nouvel appareil.
- Insérez la pile et attendez que la centrale détecte automatiquement l'appareil, ou saisissez manuellement l'identifiant de l'appareil: 108-xxxx.
- Sélectionnez le Numéro de zone voulu.
- Configurez les paramètres nécessaires de l'appareil.
- Montez et testez l'appareil. Pour savoir comment tester l'appareil, consultez la section Test d'emplacement. Consultez également le Manuel d'installation des systèmes d'alarme dans lesquels l'appareil est enregistré pour connaître la procédure à suivre.

Test de l'emplacement

Avant d'installer un appareil sans fil de manière définitive, montez l'appareil provisoirement et testez sa position sur le dormant, le plus près possible de l'emplacement prévu. Ceci permet de tester la liaison radio.

- Pour déclencher l'auto-protection de l'appareil, retirez le capot fixé à l'appareil.
- Réinsérez ensuite le capot pour rétablir l'auto-protection. L'appareil passe en mode de test d'emplacement pendant 15 minutes.
- Déclenchez l'appareil en ouvrant momentanément la porte ou la fenêtre et vérifiez que le voyant rouge clignote pour signaler la détection.

Au bout de 2 secondes, le voyant clignote 3 fois. Le tableau ci-dessous indique la puissance du signal reçu.

Voyant	Puissance du signal
Voyant vert clignotant	FORT
Voyant orange clignotant	BON
Voyant rouge clignotant	FAIBLE
Aucun clignotement	Pas de comm.

fonctionnement normales. Les antennes utilisées pour ce produit ne doivent pas être positionnées dans un même espace, ni utilisées avec une autre antenne ou émetteur.

NOTE: Le PowerG recessed door/window contact PG9307 sera installé et utilisé dans un environnement non dangereux où le niveau de pollution est inférieur à 2 et où il est exposé à des tensions de catégorie II. L'équipement est conçu pour être installé par du personnel de maintenance qualifié uniquement. Il est conseillé d'installer le contact sur le dormant de la porte et l'aimant sur la porte.

NOTE: Avant de percer les trous, testez la position du contact. Fixez le contact et l'aimant de manière provisoire, et testez leur position.

Le perçage des trous pourrait avoir un impact sur la qualité du signal.

Espacement

Le tableau ci-dessous apporte des informations sur l'espacement à respecter.

	Axe	Aimant approchant Contact mm (in)	Aimant quittant Contact mm (in)
Acier	X	16.0 (0.63)	20.0 (0.79)
Acier	Y	19.0 (0.75)	24.0 (0.94)
Acier	Z	20.0 (0.79)	24.0 (0.94)
Bois	X	18.0 (0.71)	23.0 (0.90)
Bois	Y	24.0 (0.94)	36.0 (1.42)
Bois	Z	21.0 (0.83)	26.0 (1.02)

L'espacement maximal conseillé pour l'installation (sur les matériaux indiqués et l'axe Z) est de 6 mm.

REMARQUE: La pose sur un cadre de porte/fenêtre en métal peut diminuer la portée radio et l'autonomie de la pile

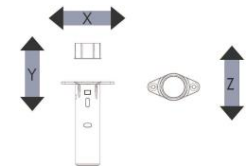
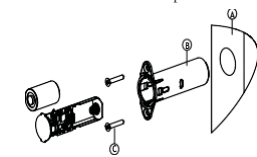


Figure 2.

Montage de l'appareil

REMARQUE: Il existe différentes façons de monter l'appareil. Cette procédure décrit une possibilité d'installation.

Laissez au moins 3 mm entre la porte et le dormant.



- Dormant
- Contact encastré pour porte/fenêtre
- Vis

Figure 3 : montage du contact encastré pour porte/fenêtre

Conseils d'installation

ATTENTION! Pour des raisons de conformité aux normes d'exposition aux fréquences radio FCC et ISED Canada, le contact doit être distant d'au moins 20 cm de toute personne, en conditions de

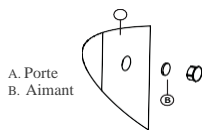


Figure 4 : montage de l'aimant
Installez l'appareil sur le dormant et l'aimant sur la porte. Installez l'appareil et l'aimant sur le côté ou sur le haut de la porte et du dormant.

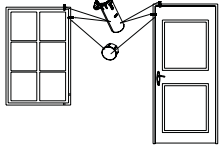


Figure 5.

Marquez les emplacements du contact pour porte/fenêtre et de l'aimant. Vérifiez que les emplacements du contact et de l'aimant sont correctement alignés.

Installation de capteur.

Installez le capteur en procédant comme suit :

1. Utilisez une mèche 3/4 pour percer lentement un trou de 3/4 de pouce pour fixer le contact pour porte/fenêtre sur le dormant.
2. Fixez le boîtier du contact à la surface de montage avec deux vis et insérez le capot. S'il n'y a pas 3 mm entre la porte et le dormant, procédez au perçage en deux étapes. À l'aide d'une mèche 22 mm, percez un trou de 2 mm de profondeur puis, avec une mèche de 19 mm, percez un trou de 70 mm. Cassez les ailettes, nettoyez les arêtes et insérez l'appareil. L'appareil est encastré dans le dormant et ne gêne pas la porte.

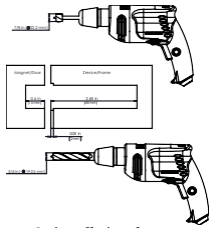


Figure 6 : installation du capteur

Installation de l'aimant.

Posez l'aimant en utilisant une des méthodes suivantes :

1. En perçant :
 - a. Utilisez une mèche de 3/4 de pouces pour percer un trou de 15 mm.
 - b. Retirez les pellicules protectrices de la bande adhésive de l'aimant et collez-le à l'intérieur du capot pour aimant (partie D).
2. En utilisant la bande adhésive double-face, sans le boîtier pour aimant :
 - a. Retirez les pellicules protectrices de la bande adhésive de l'aimant et collez-le sur la fenêtre/porte.

REMARQUE : la méthode 2 n'est possible que s'il y a au moins 2 mm entre la porte et le dormant. Facultatif : apposez sur le capot du contact et le capot de l'aimant un autocollant de la même couleur que celle de la porte ou du dormant.

Caractéristiques techniques

Fréquence	912 à 919 MHz
Protocole de communication	PowerG
Puissance maximale	+14 dBm
Type de pile	Pile au lithium 3V CR-2 de type Panasonic ou GP, ou équivalent
Autonomie	Jusqu'à 10 ans (utilisation normale)
Supervision de la pile	Signal toutes les 256 s
Niveau de pile faible	2,5 V
Plage de températures	-10 °C à +50 °C REMARQUE : seule la plage comprise entre 0 °C et 49 °C est certifiée UL.
Humidité relative	5 % à 93 % sans condensation
Type d'aimant	Terre rare
Taille du contact (HxP)	67,5 mm x 19,05 mm / 2,66 pouces x 0,75 pouces
Taille du capot de l'aimant (HxP)	12,6 mm x 19,05 mm / 0,51 pouces x 0,75 pouces
Taille de l'aimant (HxP)	17,01 mm x 2,03 mm / 0,67 pouces x 0,08 pouces
	25 g

Poids (avec pile et aimant)

Couleur	Blanc ou transparent
Matériau du boîtier	Polycarbonate

Récepteurs compatibles

Cet appareil peut être utilisé avec les centrales et récepteurs DSC qui utilisent la technologie PowerG.

PG9307 Contacto PowerG para ventana/puerta empotrada

PG9307 es un dispositivo de contacto magnético PowerG inalámbrico doble, supervisado y discreto. PG9307 utiliza una batería de litio sustituable y debería durar hasta 10 años en uso normal.

Leyenda

- A. Carcasa de contacto para ventana/puerta
- B. Tornillos desarmables
- C. Cubierta de contacto y panel del circuito
- D. Cubierta del imán
- E. Imán con adhesivo de ambos lados

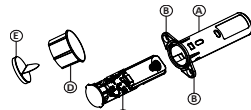


Figure 1. Contacto para ventana/puerta empotrada

Introducción o cambio de la batería

PRECAUCIÓN: Este producto usa batería de litio. La manipulación inapropiada de las baterías de litio podría ocasionar GENERACIÓN DE CALOR, EXPLOSIÓN o INCENDIO, lo que podría llevar a lesiones personales.

ADVERTENCIA: Si las baterías no son colocadas correctamente, podría haber peligro de explosión. Reemplácelas únicamente por una igual o una equivalente recomendada por el fabricante. La eliminación de baterías usadas se debe efectuar acorde con las instrucciones del fabricante y de conformidad con las reglas y reglamentaciones locales. Mantenga alejado del alcance de los niños: en caso de tragarlas, consulte inmediatamente a un médico. No intente recargar estas baterías.

- NOTA:** El cambio de baterías debe estar a cargo de un instalador.
1. Coloque un destornillador pequeño de cabeza plana en las ranuras que se encuentran en la parte lateral de la carcasa de contacto y retire la

cubierta de contacto.

2. Libere la cubierta de la carcasa de contacto de la puerta/ventana.
3. Preste atención a la polaridad y coloque o reemplace la batería.
4. Coloque nuevamente la cubierta de contacto (con el panel de circuito sujetado).

Registro

Para información sobre el procedimiento de registro, consulte el manual de instalación del panel. En el siguiente diagrama de flujo se provee una descripción general del procedimiento:

Etapa	Procedimiento
1	Para garantizar la aplicación de las etapas apropiadas, consulte el manual de instalación del sistema de alarma en el que el dispositivo está registrado.
2	Entre en la opción Registro de dispositivo por medio del método especificado y elija la opción apropiada para agregar el nuevo dispositivo.
3	Inserte la batería y espere a que el panel detecte el dispositivo automáticamente o introduzca el ID de dispositivo: 108-xxxx
4	Elija el número de la zona deseada.
5	Configure todos los parámetros del dispositivo que sean necesarios.
6	Coloque y pruebe el dispositivo. Para obtener información acerca de cómo probar el dispositivo, consulte Prueba de colocación. Consulte también el manual de instalación de sistemas de alarma, para comprobar si el dispositivo está registrado o para ver otros procedimientos de prueba que sean necesarios.

Cómo realizar una prueba de ubicación

Antes de colocar cualquier dispositivo inalámbrico de manera permanente, coloque temporalmente el dispositivo y pruebe su ubicación en el marco de la puerta, lo más cerca posible del área de instalación planificada. Esto es para comprobar el link de radio.

1. Para manipular el dispositivo, retire la cubierta.
2. Coloque nuevamente la cubierta para reestablecer la manipulación. El dispositivo entra ahora en modo de prueba de ubicación por 15 minutos.
3. Para disparar el dispositivo, abra la puerta o ventana y verifique que el indicador LED rojo parpadee, lo que indica detección.

Al cabo de dos segundos, el indicador LED parpadea tres veces. En la siguiente tabla se indica la potencia de la señal recibida.

Respuesta del indicador LED	Potencia de señal
El indicador LED verde parpadea	ALTA
El indicador LED naranja parpadea	BUENA
El indicador LED rojo parpadea	BAJA
Sin parpadeo	Sin comunicación

¡IMPORTANTE! Las únicas potencias de señal aceptables son BUENA o ALTA. Si recibe una señal BAJA del dispositivo, reubíquelo y vuelva a probar hasta que reciba una potencia de señal BUENA o ALTA.

NOTA: En instalaciones de UL/ULC, solo se admite una potencia de señal ALTA. Después de la instalación, verifique la funcionalidad del producto junto con los paneles de control compatibles HSM2HOST9, HS2LCDRF(P)9, HS2ICNRF(P)9, PG9920, WS900-19, and WS900-29.

NOTA: Para ver instrucciones de colocación, consulte el manual de referencia del panel de control. **NOTA:** Al registrar PG9307 en un panel inalámbrico con una versión incompatible con el ID de dispositivo,

se detectará como un contacto W/D con ID: 100-xxxx.

NOTA: Al restaurar la manipulación cuando el panel está en modo de grabación o de escucha de un nuevo dispositivo, se generará una nueva solicitud para registrar el dispositivo. No restaure la manipulación ni cierre la carcasa al estar en este modo de panel, excepto al agregar un nuevo dispositivo por medio de este método.

Consejos para la instalación

PRECAUCIÓN! Para cumplir con los requisitos de cumplimiento de normas de exposición a RF de FCC e ISED de Canadá, el contacto se debe ubicar a una distancia de al menos 20 cm de todas las personas durante el funcionamiento normal. Las antenas que se utilizan para este producto no se deben instalar ni utilizar junto con otra antena u otro transmisor. **NOTA:** El PG9307 PowerG recessed door/window contact se debe instalar y utilizar en un entorno que provea el nivel de contaminación máximo de 2 y la categoría de sobretensión II en LUGARES NO PELIGROSOS. El equipo está diseñado para ser instalado solo por personal de servicio capacitado. Se recomienda colocar el contacto en el marco de la puerta y el imán en la puerta. **NOTA:** Antes de hacer los orificios, compruebe la ubicación. Coloque temporalmente el contacto y el imán para probar su ubicación. Una vez hecho el orificio, podría impactar la calidad de la señal.

Separación de espacio

La siguiente tabla describe la información acerca de la separación de espacio.

	Eje	Imán de proximidad Contacto mm (in)	Imán saliendo Contacto mm (in)
Acero	X	16.0 (0.63)	20.0 (0.79)
Acero	Y	19.0 (0.75)	24.0 (0.94)
Acero	Z	20.0 (0.79)	24.0 (0.94)
Madera	X	18.0 (0.71)	23.0 (0.90)
Madera	Y	24.0 (0.94)	36.0 (1.42)
Madera	Z	21.0 (0.83)	26.0 (1.02)

La separación de espacio máxima recomendada para la instalación (en materiales específicos y ejes Z) es de 6 mm (0,24 pulgadas).

NOTA: La instalación en el marco metálico de la puerta o ventana podría reducir el rango de RF y la duración de la batería.

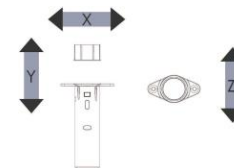
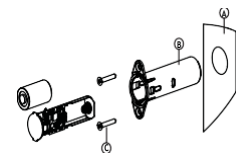


Figure 2.

Montaje del dispositivo

NOTA: Existen diversas maneras de colocar el dispositivo. Este procedimiento describe una opción para la instalación. Deje una distancia mínima de 3 mm entre la puerta y el marco.



- A Marco de la puerta
- B Contacto para ventana/puerta empotrada
- C Tornillos

Figure 3: Montaje del contacto para ventana/puerta empotrada

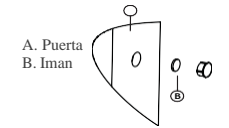


Figure 4: Montaje del imán

Coloque el dispositivo en el marco de la puerta e instale el imán en la puerta. Coloque el dispositivo y el imán ya sea en el costado o en la parte superior de la puerta, y en el marco de la puerta.

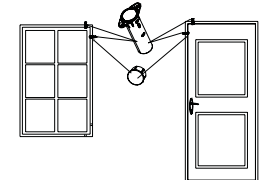


Figure 5.

Marque la ubicación del contacto para ventana/puerta y del imán. Asegúrese de que las ubicaciones del contacto y del imán estén alineadas correctamente.

Instalación del sensor.

Instale el sensor según los siguientes pasos:

1. Use una broca de 3/4 para agujerear un orificio de 3/4 pulgadas en el marco de la puerta para el contacto para ventana/puerta.
2. Fije la carcasa del contacto en la superficie de montaje con los dos tornillos y coloque la cubierta. Si no hay un espacio de 3 mm entre la puerta y el marco, es necesario hacer la perforación de dos pasos. Con una herramienta de 22 mm, haga un orificio poco profundo de 2 mm, seguido por un orificio profundo de 70 mm con una herramienta de 19 mm. Rompa los tornillos desarmables, limpie los bordes puntiagudos y coloque el dispositivo. El dispositivo se empotra dentro del marco, sin interferir con la puerta.

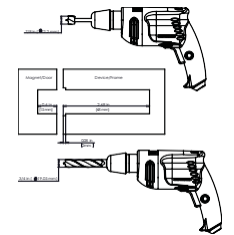


Figure 5.

Instalación del imán.

Instale el imán según una de las siguientes opciones:

1. Por perforación:
 - a. Use una broca de 3/4 pulgadas para hacer un orificio profundo de 15 mm.
 - b. Quite el adhesivo de ambos lados del imán y péguelo dentro de la cubierta del imán (parte D).
2. Mediante el uso del adhesivo de ambos lados sin la carcasa del imán:



- a. Quite o adesivo de ambos lados del imán y péguelo en la ventana/puerta.

NOTA: La opción 2 es posible únicamente cuando existe un espacio mínimo de 2 mm entre la puerta y el marco de la puerta.
Opcional: Use un adhesivo tanto en el contacto como en la cubierta del contacto y la cubierta del imán para que coincida con el color de la puerta o del marco de la puerta.

Especificaciones

Frecuencia	912 MHz a 919 MHz
Protocolo de comunicaciones	PowerG
Potencia máxima	+14 dBm
Tipo de batería	Batería Panasonic o GP, 3V CR-2 o batería de litio equivalente
Vida útil de la batería	Hasta 10 años (con uso típico)
Supervisión de la batería	Senalización a intervalos de 256 s.
Nivel del problema de batería baja	2,5 V
Margen de temperatura	-10 °C a +50 °C NOTA: margen de operación verificado por UL, 0 °C a 49 °C únicamente.

Humedad relativa	5 % a 93 % sin condensación
Tipo de imán	Tierras raras
Tamaño del contacto (AlturaxProfundidad)	67,5 mm x 19,05 mm / 2,66 pulgadas x 0,75 pulgadas
Tamaño de la cubierta del imán (AlturaxProfundidad)	12,6 mm x 19,05 mm / 0,67 pulgadas x 0,08 pulgadas
Tamaño del imán (altura x profundidad)	17,01 mm x 2,03 mm / 0,67 pulgadas x 0,08 pulgadas
Peso (incluida la batería y el imán)	0,83 oz (25 g)
Color	Blanco o transparente
Material de la carcasa	Policarbonato

Receptores compatibles

Este dispositivo se puede utilizar con paneles y receptores DSC que utilizan la tecnología PowerG.

PG9307 Contato embutido da porta/janela do PowerG

O PG9307 é um dispositivo de contato magnético PowerG sem fio, bidirecional, discreto e supervisionado.
O PG9307 usa uma bateria de lítio substituível e deve durar até 10 anos sob uso normal.

Legenda

- A. Alojamento de contato da porta/janela
B. Orelhas de parafuso quebráveis
C. Tampa de contato e placa de circuito
D. Tampa do ímã
E. Ímã com fita dupla face

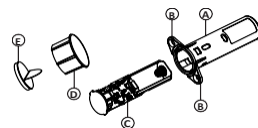


Figura 1. Contato embutido da porta/janela

Inserir ou trocar a pilha

CUIDADO: Este produto usa baterias de lítio. O manuseio inadequado de baterias de lítio pode resultar em AQUECIMENTO, EXPLOSÃO ou INCÊNDIO, que podem levar a ferimentos.

AVISO: Perigo de explosão se as baterias forem instaladas incorretamente. Troque somente pelo mesmo tipo recomendado pelo fabricante ou equivalente. Descarte as baterias usadas de acordo com as instruções do fabricante e com as regras e normas locais.
Mantenha longe de crianças pequenas: se ingerido, consulte imediatamente um médico. Não tente recarregar essas baterias.
NOTA: A substituição da bateria deve ser concluída por um instalador.

1. Insira uma pequena chave de fenda nos encaixes na lateral do alojamento de contato e solte a tampa de contato.
2. Puxe a tampa do alojamento de contato da porta/janela.
3. Observe a polaridade e insira ou substitua a bateria.
4. Reinsira a tampa de contato (com a placa de circuito conectada).

Registro

Consulte o manual de instalação do painel para aprender o procedimento de registro.
Uma descrição geral do procedimento é fornecida no fluxograma a seguir:

Etapa	Procedimento
1	Consulte o Manual de Instalação do sistema de alarme ao qual o dispositivo está sendo registrado para garantir que as etapas adequadas sejam feitas.
2	Entre na opção de registro de dispositivo pelo método especificado e selecione a opção apropriada para adicionar o novo dispositivo.
3	Insira a bateria e aguarde o painel detectar o dispositivo automaticamente, ou insira a ID do dispositivo:108-xxxx.
4	Selecione o número da zona desejada.
5	Configure os parâmetros necessários do dispositivo.
6	Instale e teste o dispositivo. Consulte Teste de colocação 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.

Execução de um teste de colocação

Antes de montar permanentemente qualquer dispositivo sem fio, monte temporariamente o dispositivo e faça um teste de colocação no quadro da porta, o mais próximo possível da área de instalação planejada. Isso serve para verificar o link de rádio.

1. Para adulterar o dispositivo, puxe a tampa presa ao dispositivo.
2. Reinsira a tampa para restaurar a adulteração. O dispositivo agora entra no modo de teste de colocação por 15 minutos.
3. Acione o dispositivo, abrindo a porta ou janela, e verifique se o LED vermelho pisca, indicando a detecção.

Após 2 segundos, o LED piscará 3 vezes. A tabela a seguir indica a força do sinal recebido.

Reposta do LED	Intensidade do sinal
LED verde pisca	FORTE
LED laranja pisca	BOM
LED vermelho pisca	RUIM
Nada pisca	Sem comunicação

IMPORTANTE! Somente são aceitos intensidades de sinal BOA ou FORTE. Se você receber um sinal

RUIM do dispositivo, reposicione-o e teste novamente até receber um sinal BOM ou FORTE.

NOTA: Para instalações UL/ULC, apenas o nível de sinal FORTE é aceitável. Após a instalação, verifique a funcionalidade do produto em conjunto com os painéis de controle compatíveis HSM2HOST9, HS2LCDRF(P)9, HS2ICNRF(P)9, PG9920, WS900-19, and WS900-29.

NOTA: Para obter instruções detalhadas de colocação, consulte o Guia de referência do painel de controle.

NOTA: Ao registrar o PG9307 em um painel de rede sem fio de versão não compatível com a ID do dispositivo, ele será detectado como contato W/D com a ID: 100:xxxx.

NOTA: A restauração de violação quando o painel estiver no modo de registro/escuta de um novo dispositivo gerará uma nova solicitação de registro do dispositivo. Não restaure a violação/feche o invólucro durante este modo do painel, a menos que você esteja adicionando um dispositivo por este método.

Dicas de Instalação

AVISO! A fim de obedecer os requisitos de conformidade de exposição do FCC e ISED Canada RF, o contato deve estar localizado a uma distância de pelo menos 20 cm de todas as pessoas durante a operação normal. As antenas usadas para este produto não podem estar colocadas ou ser operadas em conjunto com qualquer outra antena ou transmissor.
NOTA: O PG9307 PowerG recessed door/window contact deve ser instalado e usado dentro de um ambiente que forneça o grau máximo de poluição 2 e sobre-tensão de categoria II, LOCAIS NÃO PERIGOSOS. O equipamento foi projetado para ser instalado apenas pelo pessoal qualificado de serviço. É recomendável instalar o contato no quadro da porta e o ímã na porta.

NOTA: Antes de fazer furos, teste o local. Instale temporariamente o contato e o ímã e realize um teste de colocação. Uma vez perfurado, a qualidade do sinal pode ser afetada.

Separação de espaços

A tabela a seguir mostra as informações de separação de espaços.

	Eixo	Ímã aproximação Contato mm (in)	Ímã abandonar Contato mm (in)
	Aço	X 16,0 (0.63)	20,0 (0.79)
	Aço	Y 19,0 (0.75)	24,0 (0.94)
	Aço	Z 20,0 (0.79)	24,0 (0.94)
	Madeira	X 18,0 (0.71)	23,0 (0.90)
	Madeira	Y 24,0 (0.94)	36,0 (1.42)
	Madeira	Z 21,0 (0.83)	26,0 (1.02)

A separação de espaço máxima recomendada para instalação (nos materiais especificados e no eixo Z) é de 6 mm (0,24 pol.).

NOTA: instalação em porta de metal/quadro de janela pode reduzir o alcance de RF e a vida útil da bateria

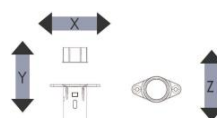


Figura 2.

Montagem do dispositivo

NOTA: Existem várias maneiras de instalar o dispositivo. Este procedimento descreve uma opção para instalação. Deixe 3 mm no mínimo entre a porta e o quadro.

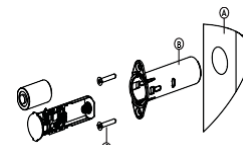


Figura 3: Instalação do contato embutido da porta/janela

- A Quadro da porta
B Contato embutido da porta/janela
C Parafusos

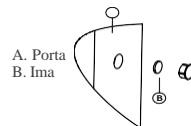


Figura 4: Instalação do ímã

Instale o dispositivo no quadro da porta e instale o ímã na porta. Instale o dispositivo e o ímã no lado ou no topo da porta e no quadro da porta.

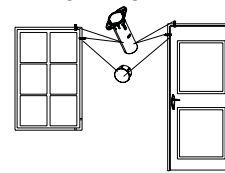


Figura 5.

Marque os locais para o contato da porta/janela e o ímã. Certifique-se de que os locais para o contato e o ímã estejam alinhados corretamente.

Instalação do sensor.

Para instalar o sensor, siga estes passos:

1. Use uma broca de 3/4 para perfurar lentamente um orifício de 3/4 de polegada para o contato da porta/janela no quadro da porta.
2. Fixe o alojamento de contato à superfície de montagem usando os dois parafusos e insira a tampa. Se não houver um espaço de 3 mm entre a porta e o quadro, será necessária perfuração em duas etapas. Utilizando uma ferramenta de 22 mm, faça um furo raso de 2 mm, seguido de um furo de 70 mm com uma ferramenta de 19 mm. Quebre as orelhas do encaixe, limpe as bordas afiadas e insira o dispositivo. O dispositivo está embutido dentro do quadro, não interferindo na porta.

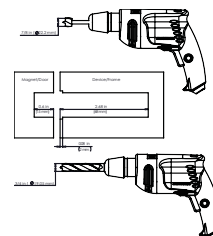


Figura 6: Instalação do sensor

Instalação do ímã.

Instale o ímã com uma das seguintes opções:

1. Ao perfurar:
 - a. Use uma broca de 3/4 de polegada para criar um furo com 15 mm de profundidade.

- b. Retire a fita dupla face do ímã e cole-a dentro da tampa do ímã (parte D).

2. Usando a fita dupla face sem o alojamento do ímã:
 - a. Retire a fita dupla face do ímã e cole-a dentro na porta/janela.

NOTA: a opção 2 só é possível quando existe um espaço mínimo de 2 mm entre a porta e o quadro da porta.
Opcional: use um adesivo na tampa de contato e na tampa do ímã para combinar com a cor da porta ou do quadro da porta.

Especificações

Frequência	912 MHz a 919 MHz
Protocolo de comunicação	PowerG
Potência máxima	+14 dBm
Tipo de bateria	Bateria de lítio de 3 V, Panasonic ou GPCR-2 ou equivalente
Expectativa de vida da bateria	Até 10 anos (com uso normal)
Supervisão da bateria	Senalização em intervalos de 256 s
Nível de problema: bateria fraca	2,5 V
Faixa de temperatura	-10 °C a +50 °C NOTA: a UL verificou a operação somente na faixa de 0°C a 49°C.
Umidade relativa	5 % a 93 % sem condensação
Tipo de ímã	Terra rara
Tamanho do contato (AxP)	67,5 mm x 19,05 mm / 2,66 polegadas x 0,75 polegadas
Tamanho da tampa do ímã (AxP)	12,6 mm x 19,05 mm / 0,67 polegadas x 0,08 polegadas
Tamanho do ímã (AxP)	17,01 mm x 2,03 mm / 0,67 polegadas x 0,08 polegadas
Peso (com bateria e ímã)	0,83 oz (25 g)
Cor	Branco ou transparente
Material da caixa	Policarbonato

Receptores compatíveis

Este dispositivo pode ser usado com painéis e receptores DSC que usem a tecnologia PowerG.

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D-307315 Rev 03 (12/21)



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