

SiXC2W

Convert to Wireless Module

INSTALLATION INSTRUCTIONS

The Honeywell SiXC2W is an eight zone hardwire to wireless converter used with controllers that support Honeywell's SiX™ series devices. It is useful in retrofit 12-volt security system applications where existing contact wiring was used. It uses those existing wired contacts and converts them to wireless.

FEATURES

- Provides 12-volts for devices such as motion detectors, glass breaks, etc.
NOTE: Only two devices may be powered using the auxiliary output on the SiXC2W.

- Provides 24-hour battery backup if there are **no** external devices ($\leq 100\text{mA}$), other wise 12-hours if there are two devices attached.

NOTES:

- It immediately sends a power loss signal to the controller in the event the power is lost.
- When no battery is connected, low battery message will send to control panel.

- When battery is connected, and if battery voltage drops below 3.6VDC, a low battery message will send to control panel.
- When only the battery is connected, and if the battery voltage 3.4 V, system will shut down.

- Support one button calibration
- Automatic zone configuration
- Easy setup in three steps
- Cover tamper protection

IMPORTANT!

Not to be used for fire, heat, or carbon monoxide detectors.

GENERAL GUIDELINES

- The SiXC2W module uses a 5VDC power supply to charge the battery (Max wire length is 9.8 ft. (3m)).
- If the voltage drops to 9.5VDC a low battery will occur.

NOTE: Anything lower than 4.5VDC, the SiXC2W is incapable of charging the battery; it must be replaced

- Up to eight [8] hardwired zones can be handled by each SiXC2W module.
- Before mounting permanently, conduct the Go/No Go test (see control's instructions) to verify adequate signal strength, relocate if necessary.

CALIBRATING

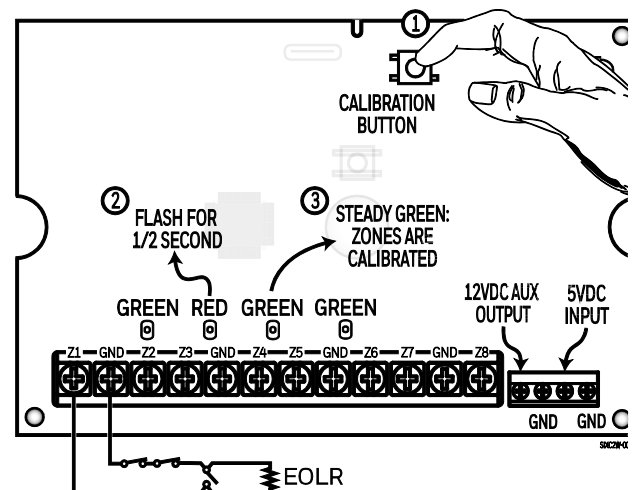
The calibration process enables the SiXC2W to learn what zones are to be active and what value EOL resistors are used.

NOTE: Unused zones that are open ARE NOT recognized and reported

- Ensure all zones are connected and not faulted.
- On the SiXC2W, click the top middle button.
- Indicator LED #2 will flash Red for 1/2 second; then LED #3 turns steady Green.
- Calibration is in process
- DONE. The SiXC2W is calibrated and ready to enroll in the control panel.

NOTES:

- If the SiXC2W loses both AC and battery backup power, the zone calibration data is retained.
- If a resistor does exist, it **MUST** have a value between 1K and 10K. The unit comes with eight (8) 2.2K resistors for zones with no resistors.



IMPORTANT!

ONCE THE SIXC2W IS CALIBRATED, ANY CHANGE IN THE ZONE RESISTANCE THE MODULE MUST BE RE-CALIBRATED.

ENROLLING

For Lyric Controller

1. Set the *Controller* in Programming Mode and select Zone Programming.

For Lyric: Program > Zones > Add New > Series Number

2. On the SiXC2W, power up:
 - LED #1 flashes for approximately 20 seconds
 - LED #1 turns on
 - LED #1 turns on for 3-seconds
 - SiXC2W sends the information to the control and the serial number displays for loop 1
3. Edit the zone and response types for the zone and press **Save**.
4. To enroll additional zones, activate each loop (one per zone) when prompted for the serial number.

Zone	MAC #	Loop #
Zone 1	00D02D123456	1
Zone 2	00D02D123456	2
Zone 3	00D02D123456	3
Zone 4	00D02D123456	4

Example:

Zones 1-8 can be used for other SiX series devices. However, zones on the SiXC2W must align with the assigned loops on the control.

5. The controller registers the device and displays the sensor data on screen.

LYRIC CONTROLLER ENROLLMENT PROCESS, SEE CONTROLLER'S INSTALLATION INSTRUCTIONS FOR IT'S PROPER PROGRAMMING OPROCESS.

NOTES:

Each SiXC2W has a unique mac number which enables the control panel to recognize and differentiate each zone. Further, since the SiXC2W has eight zones each zone is automatically assigned the next sequential mac number; all zones are assigned loop 1-8 respectively.

FOR LYRIC GATEWAY

Use AlarmNet 360™ to enroll and program this sensor.

FOR OTHER CONTROLS

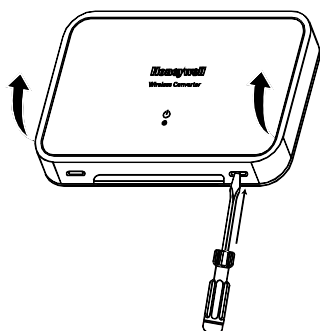
For other controls that support SiX series devices, see the controller's installation app for details

NOTE: Once enrolled in a system, the SiXC2W cannot be used with another controller until it is removed from the current controller. See the Controller's instructions for details.

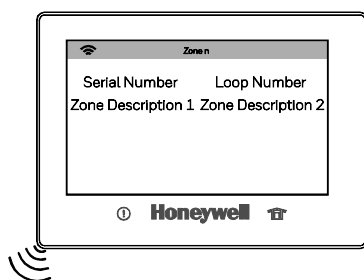
Zone	MAC #	Loop #
Zone 5	00D02D123456	5
Zone 6	00D02D123456	6
Zone 7	00D02D123456	7
Zone 8	00D02D123456	8

NOTE: Enrollment time varies depending on the signal strength between the device and the controller. When done, LED #1 is ON for 3 seconds and the control beeps to confirm enrollment.

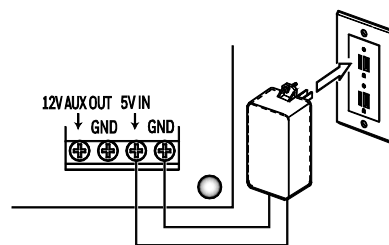
① REMOVE COVER



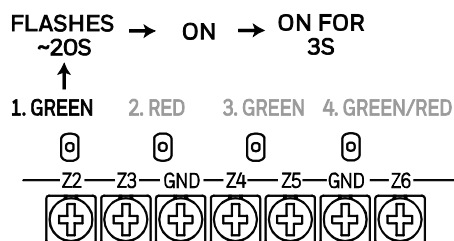
② PROGRAM > ZONES > SERIAL NUMBER



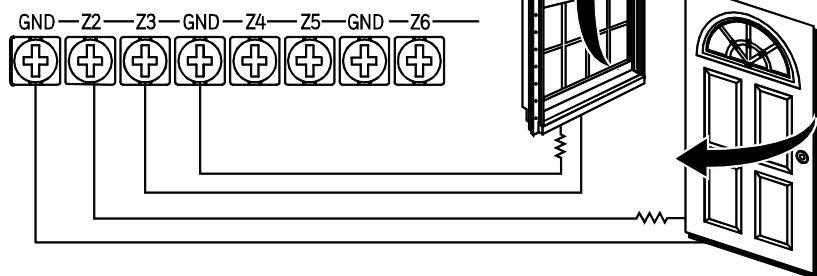
③ POWER UP



④ LED SEQUENCE



⑤ PROGRAMMING ADDITIONAL LOOPS



TAMPER/LOW BATTERY REPORTING

The SiXC2W reports this condition to the control. If a low battery or tamper condition exists all zones used on the module shows a trouble on the control.

IMPORTANT:

The first battery test occurs 1 hour after power up. To quickly verify a good backup battery, unplug and then plug back in the power supply; the system will perform a battery test within 1 minute.

MOUNTING

NOTE: This product must be installed in accordance with ANSI/NFPA 70, National Electrical Code.

1. At the existing control panel, label and remove the zone wires to be transferred to the SiXC2W.
2. Select a mounting position for the module. In most installations, the best mounting location is close to the existing control panel.

NOTE: If needed, the SiXC2W can be located remotely by extending the existing zone wires.

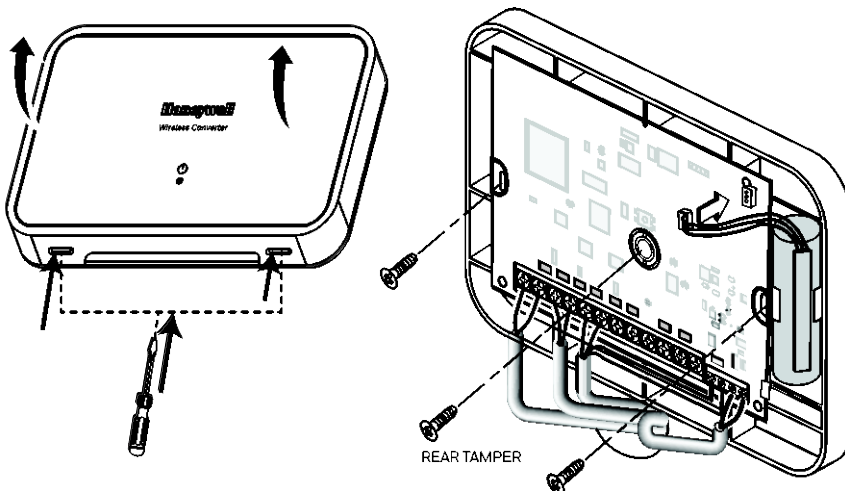
If needed, you may cut and splice (observing good workmanship) the battery wires and extend their length up to 3 ft. (0.9 meters) using 22 AWG wire, minimum.

NOTE: DO NOT mount inside the control panel or other metal enclosure.

3. Install the center screw to secure the back tamper to the wall.
4. Attach using the supplied screws.
5. Ensure the wiring is complete. Use cable ties as necessary to secure wiring. Plug the power transformer into an un-switched outlet and secure with screw. Then attach the backup battery wires.

NOTES:

- All zones used **MUST** have an EOL resistor.
- EOL resistor values must be from 1k to 10k ohms. (Eight 2.2k ohm resistors are included for those panels not using any resistors.)
- If the existing installation zones have EOL resistors (from 1k to 10k ohms) they may remain.
- When the end of line resistor value is disabled, the SiXC2W will not look for any end of line resistor value, however if there are still end of line resistors in place (up to 10K ohms) they will not need to be removed unless the installer decides to do so.
- For a NC loop without an EOL resistor, you must add one in **series** with the loop. Preferably it should be located at the end of the loop furthest away from the control panel for proper supervision.
- For a NO loop without an EOL resistor, you must add one in **parallel** (across) the loop. Preferably at the end of the line (EOL) for proper supervision.



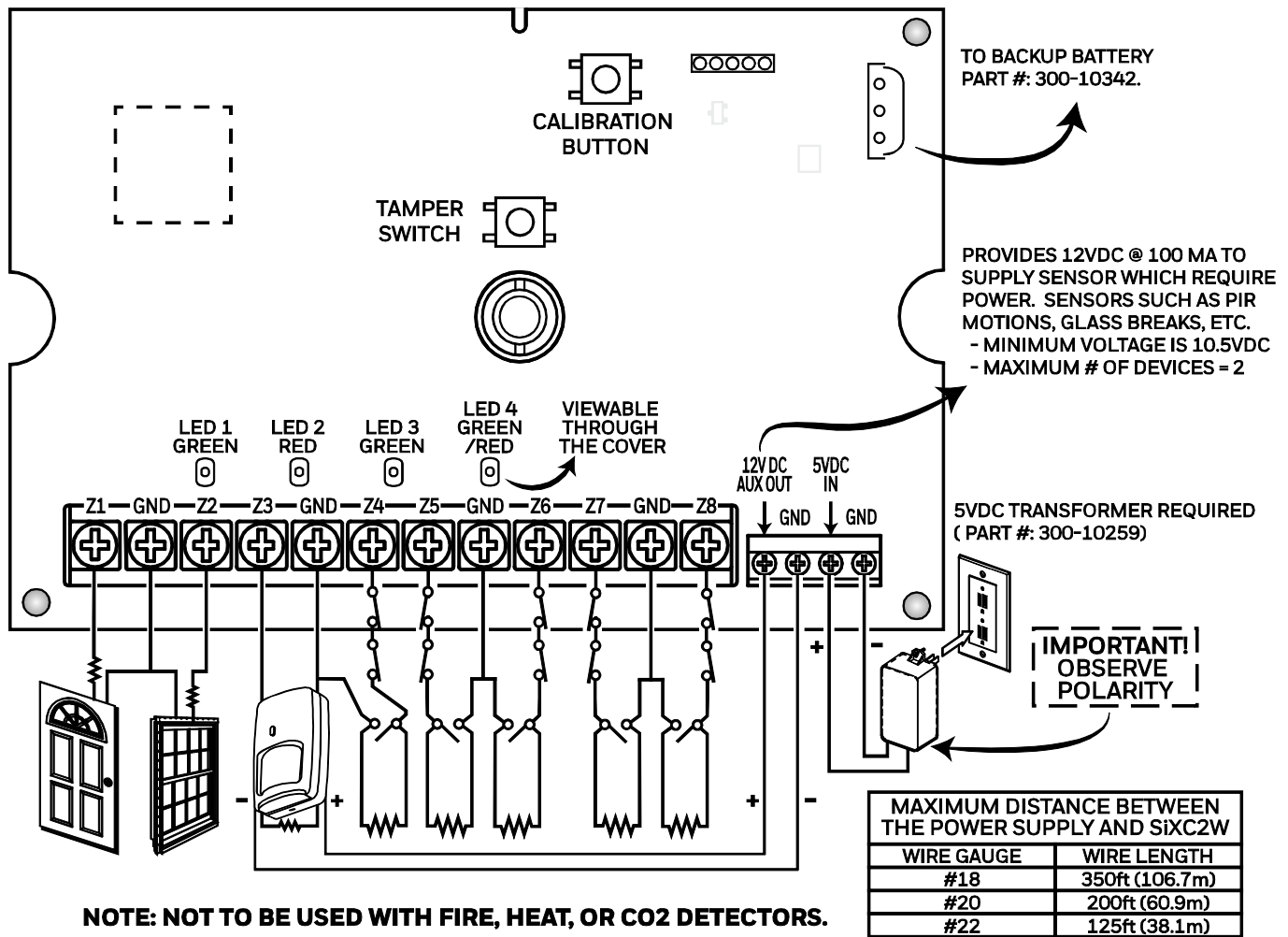
Signal strength: Rang of 1-4 bars (green), should be a minimum 1 green bar for the zone being programmed. Four Red Bars indicate poor signal strength; the device should be relocated. See the controller's instruction for bar indication signal strength values.

Icon	Description	Signal Strength
	4 Green Bars	Good
	3 Green Bars	
	2 Green Bars	
	1 Green Bar	
	4 Red Bars	Relocate

SENSOR LOCATION FEATURE

To verify the location of each SiX device in an installation, enter programming mode and select a SiX device zone. The device LED (located on the back) lights (can take up to 30 seconds). Select it again to turn the LED off or select the next device to locate.

SUMMARY OF CONNECTIONS



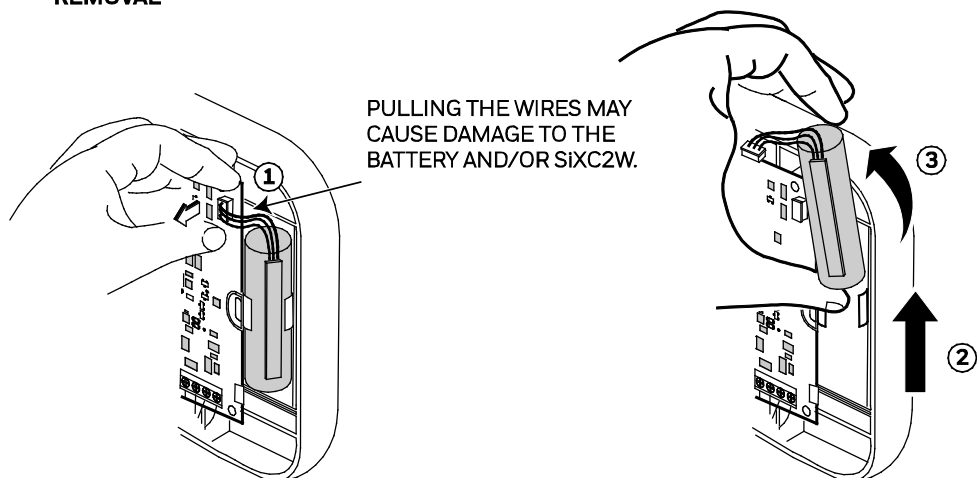
SIXC2W_S0C

LED STATUS TABLE

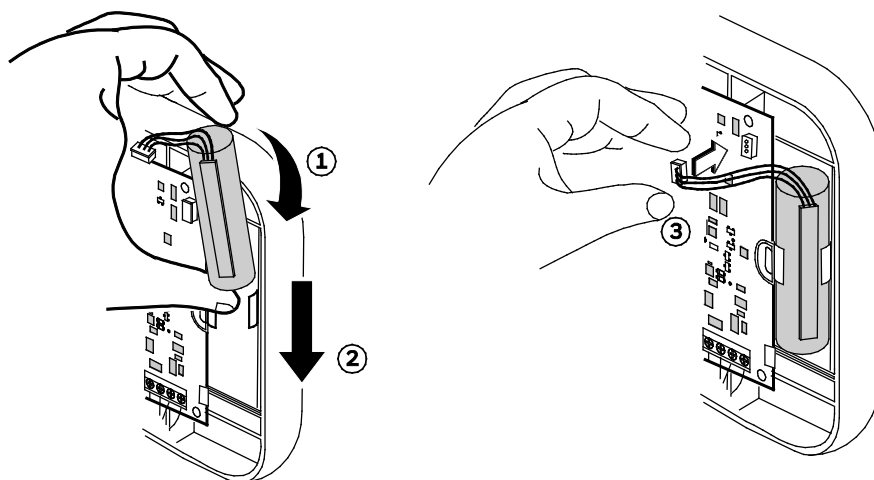
LED #	Functions
1 (Green)	Blinks once upon RF signal transmission (HW zone trigger/tamper and/or a fault message) and a slow blink for a cover tamper
	Quickly blinks during the enrollment/deletion process
2 (Red)	Blinks 1s / 1s off when module needs calibrating
3 (Green)	Steady on when the module has been calibrated.
4 (Green and Red)	Green: 5VDC Power from the plug-in transformer is present Red (blinking 1sec on / 1 sec off @ 1hz each): Running on battery, DC power not present.

REPLACING THE BATTERY

REMOVAL



INSTALLATION



SPECIFICATIONS

Voltage

Transformer Part Number	300-10259
Input Voltage.....	100 ~ 240VAC, 50 ~60 Hz
Operating Voltage.....	5VDC
Maximum Transformer Distance.....	9.8ft. (3m)
Voltage Output.....	12VDC @ 100mA (Up to three sets of 20–24 gauge wiring)
Battery/ Pile.....	P/N 300-10342

Environmental

Operating Temp.....	14 °F (-10°C) to 140°F (60°C)
NOTE: Charging the lithium battery stops when temperature is below 32°F (0°C)	
Relative Humidity.....	95%, Non-condensing / 95% max. sans condensation

Physical

Dimensions	Length 7.0 in (178 mm) x Width 4.5 in (114 mm) x Depth 1.5 in (38mm)
Mounting Hardware	Double stick tape and screws
Zone Resistance	1K to 10K Ohm EOL Resistors
Zone Wiring	1,000ft (Each Zone)

Radio Frequency

Transmission Range.....	300ft (91.5m)
-------------------------	---------------

REFER TO THE INSTALLATION INSTRUCTIONS FOR THE CONTROL WITH WHICH THIS DEVICE IS USED, FOR DETAILS REGARDING LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

POUR LES LIMITES DU SYSTÈME D'ALARME AU COMPLET, REPORTEZ-VOUS AU GUIDE D'INSTALLATION DU PANNEAU DE COMMANDE.

RF EXPOSURE

Warning – The antenna(s) used for this device must be installed to provide a separation distance of at least 7.8 inches (20 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC and ISED multi-transmitter product procedures.

RF EXPOSURE

Mise en Garde Exposition aux Fréquences Radio: La/les antenne(s) utilisée(s) pour cet émetteur doit/doivent être installée(s) à une distance de séparation d'au moins 20 cm (7,8 pouces) de toute personne et ne pas être située(s) ni fonctionner parallèlement à tout autre transmetteur ou antenne, excepté en conformité avec les procédures de produit multi transmetteur FCC et ISED.

Approval Listings / Approbations homologations

FCC / IC - ETL Listed to UL268 & 521
cETL Listed to ULC S530 & S531

Other Standards

RoHS



FEDERAL COMMUNICATIONS COMMISSION (FCC) & INDUSTRY CANADA (IC) STATEMENTS

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

FCC / IC STATEMENT

This device complies with Part 15 of the FCC Rules, and Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la partie 15 des règles de la FCC et exempt de licence RSS d'Industrie Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.

SUPPORT, WARRANTY, & PATENT INFORMATION

For online support information, please go to Pour de l'assistance en ligne, visitez : <https://mywebtech.honeywell.com/>

For the latest warranty information, go to / Pour les dernières informations de garantie, s'il vous plaît aller à : www.honeywell.com/security/hsc/resources/wa

For patent information, see / Pour des informations sur les brevets, voir www.honeywell.com/patents



MyWebTech



Warranty



Patents

Honeywell

2 Corporate Center Drive, Suite 100
P.O. Box 9040, Melville, NY 11747

© 2018 Honeywell International Inc.
www.honeywell.com/security



800-23795 2/18 Rev A

© 2017 Honeywell International Inc. Honeywell and is a registered trademark of Honeywell International Inc. All other trademarks are the properties of their respective owners. All rights reserved.

Honeywell est une marque déposée de Honeywell International Inc. Toutes les autres marques de commerce appartiennent à leurs propriétaires respectifs. Tous droits réservés.