Honeywell Home

PROSiXC2W
Hardwired to Wireless Converter Module

Installation and Setup Guide

The Honeywell Home PROSiXC2W is an eight zone hardwire to wireless converter used with controllers that support Honeywell Home's PROSiX series devices. It is useful in retrofitting 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 PROSiXC2W.
- Provides 24-hour battery backup if there are **no** external devices (≤100mA), other wise 4-hours if there are two devices attached.
- Supports one button calibration
- Automatic zone configuration
- Easy three step setup process
- Cover tamper protection

NOTES:
- The device immediately sends a power loss signal to the control panel in the event the power is lost.
- When no battery is connected, a low battery message is sent to the control panel.
- When battery is connected, and if battery voltage drops below 3.6VDC, a low battery message is sent to the control panel.
- When only the battery is connected, and if the battery voltage drops to 3.4VDC, system shuts down.

IMPORTANT!
Not to be used for panic, medical, fire, heat, or carbon monoxide detectors.

GENERAL GUIDELINES

- The PROSiXC2W module uses a 5VDC power supply to charge the battery.
- If the voltage drops to 3.6VDC, a low battery will occur.
  NOTE: If the voltage is lower than 2.6VDC, the PROSiXC2W is incapable of charging the battery; it must be replaced
- Up to eight [8] hardwired zones can be handled by each PROSiXC2W module.
- Before mounting permanently, conduct the Go/No Go test (see controller's instructions) to verify adequate signal strength, relocate if necessary.
- Zone wiring and connections must be completed before calibrations.

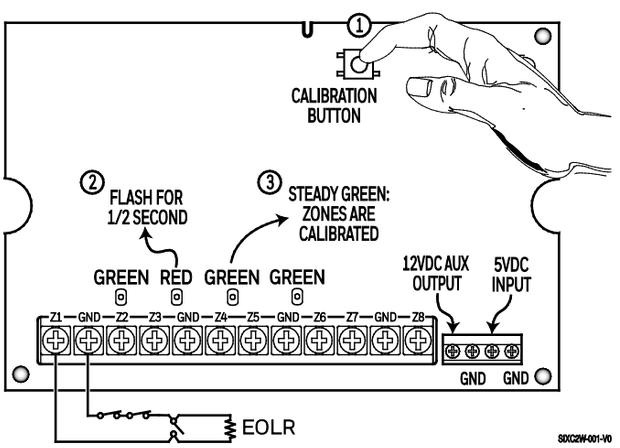
CALIBRATING

The calibration process enables the PROSiXC2W to learn what zones are to be active and what value end-of-line (EOL) resistors are used. This is performed after device has been mounted in its final location.

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

1. Ensure all zones are connected and not faulted.
2. On the PROSiXC2W, press the calibration button.
3. Indicator LED #2 will flash Red for 1/2 second; then LED #3 turns steady Green.
4. Calibration is in process.
5. DONE. The PROSiXC2W is calibrated and ready to enroll in the control panel.

NOTES:
- If the PROSiXC2W 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 PROSiXC2W is calibrated, any change in the zone resistance the module must be re-calibrated

ENROLLING

The device must be enrolled in the control panel. Refer to the control's programming instruction for the detailed procedure. Each PROSiXC2W has a unique mac number which enables the control panel to recognize and differentiate each zone. Each of the devices eight zones is automatically assigned the next sequential loop number; all zones are assigned loop 1-8 respectively.

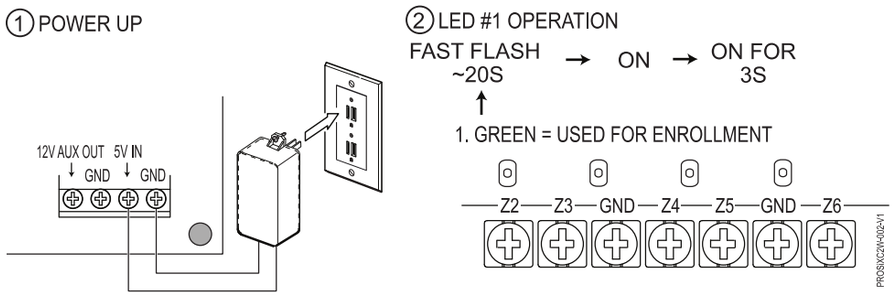
1. On the PROSiXC2W, power up:
   - LED #1 flashes for approximately 20 seconds
   - LED #1 turns on
   - LED #1 turns on for 3-seconds
   - PROSiXC2W sends the information to the control panel and the MAC ID displays for loop 1
2. Enable and edit each loop's settings.

NOTE: Enrollment time varies depending on the signal strength between the device and the control panel. When done, LED #1 is ON for 3 seconds and the control panel beeps to confirm enrollment. Once enrolled in a system, the PROSiXC2W cannot be used with another control panel until it is removed from the current controller. See the Controller's instructions for details.

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

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

Example:



Zones 1-8 can be used for other SiX series devices. For example, if using only first six zones on the PROSiXC2W, then zones seven and eight can be assigned to another SiX series device. However, zones on the PROSiXC2W must align with the assigned loops on the control (see table above).

Testing

After enrolling, verify adequate signal strength by conducting a sensor test (see the controller's instructions) with the device in its intended mounting location. Adjust the device location and orientation as necessary.

24-HOUR ENROLLMENT DELETION AND DEFAULT

If the device is enrolled in a controller different than the intended controller, and you are unable to delete it from the unintended controller, default the device to factory default settings:

1. Open the cover and verify device is powered on.
2. Simultaneously press and release the calibrate and tamper switches.
3. The Green enrollment LED rapidly flashes and the PROSiXC2W defaults.

This procedure is available for 24 hours after enrollment with a panel and the device remains powered (battery installed).

TAMPER/LOW BATTERY REPORTING

The PROSiXC2W 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 PROSiXC2W.
2. Select a mounting position for the module. In most installations, the best mounting location is close to the existing control panel.

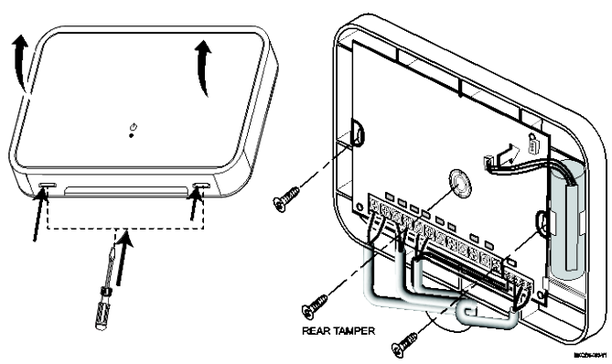
NOTES:

- If needed, the PROSiXC2W can be located remotely by extending the existing zone wires.
- DO NOT mount inside the control panel or other metal enclosure.

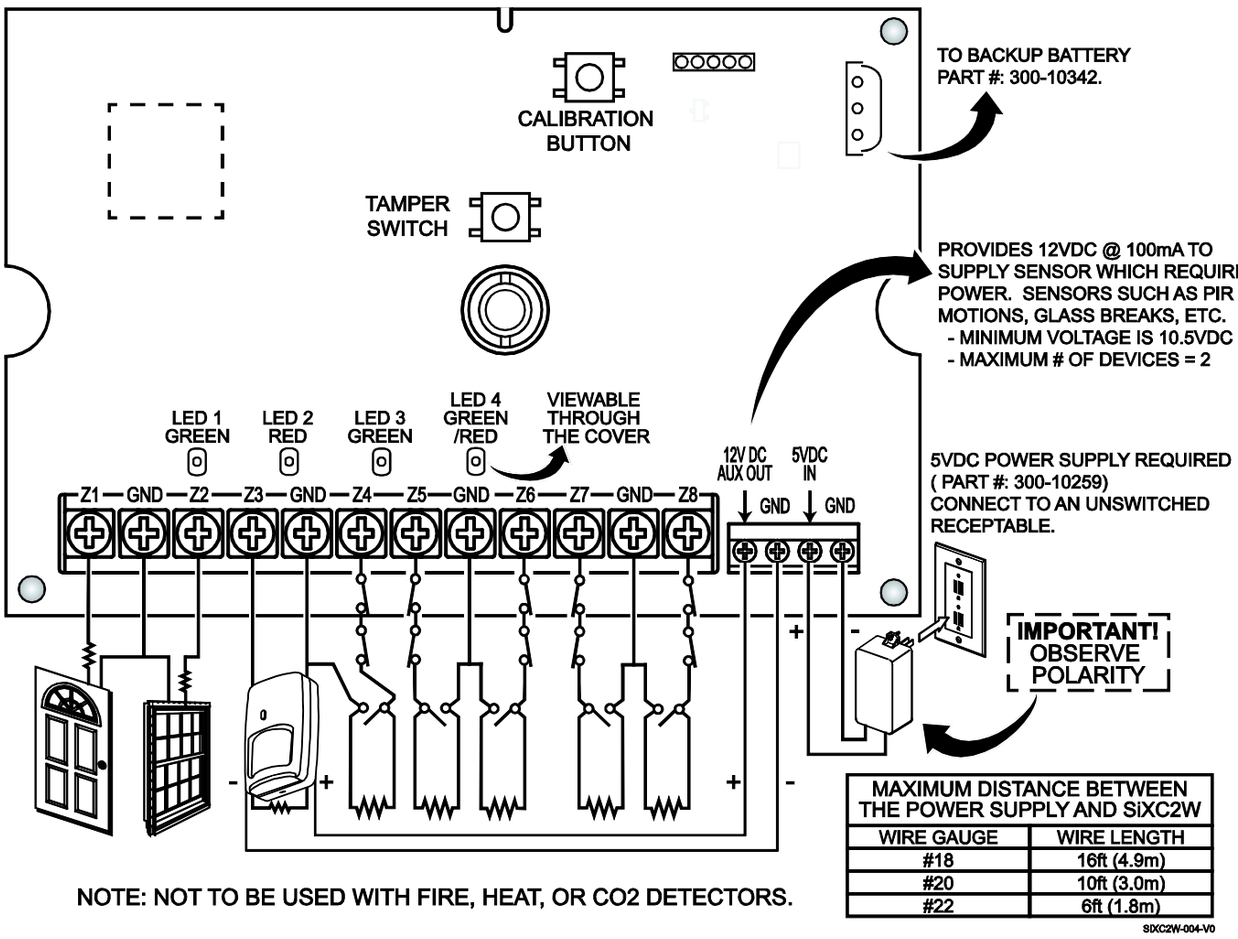
3. Attach using the supplied screws.
4. Install the center screw to secure the back tamper to the wall.
5. Ensure the wiring is complete. Use cable ties as necessary to secure wiring.
6. Plug the power supply into an un-switched outlet and secure with screw.
7. Attach the backup battery wires.

ZONE LOOP WIRING 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.
- If a zone is not being used, the PROSiXC2W 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.



SUMMARY OF CONNECTIONS



NOTE: NOT TO BE USED WITH FIRE, HEAT, OR CO2 DETECTORS.

MAXIMUM DISTANCE BETWEEN THE POWER SUPPLY AND SiXC2W	
WIRE GAUGE	WIRE LENGTH
#18	16ft (4.9m)
#20	10ft (3.0m)
#22	6ft (1.8m)

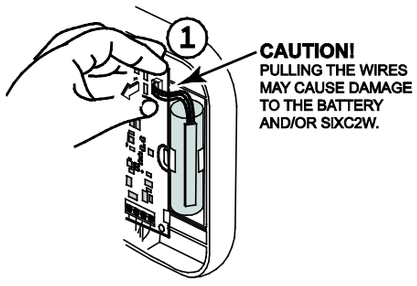
SIXC2W-004-V0

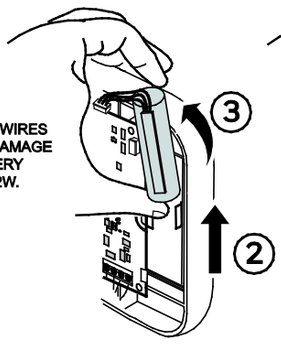
LED STATUS TABLE

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 power supply is present. Red (blinking 1sec On / 1 sec Off @ 1hz each): Running on battery, DC power not present.

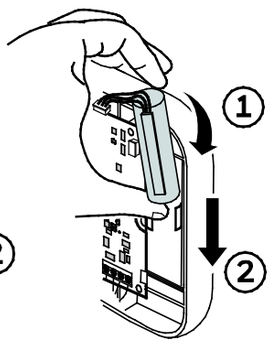
BATTERY REPLACEMENT

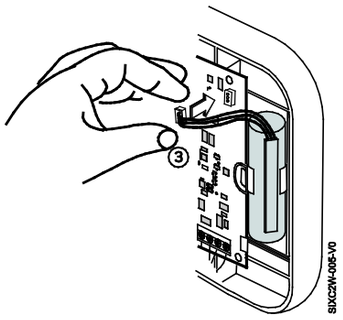
REMOVAL





INSTALLATION





SPECIFICATIONS

Voltage

Power supply Part Number 300-10259
Input Voltage ..... 100 ~ 240VAC, 50 ~60 Hz
Operating Voltage 5VDC
Maximum Power supply Distance ..... See Summary of Connections
Voltage Output ..... 12VDC @ 100mA (Up to three sets of 20–24-gauge wiring)
Battery ..... Requires one battery, P/N 300-10342
Battery Voltage 3.6VDC

Environmental

Operating Temp ..... 14 °F (-10°C) to 140°F (60°C)
NOTE: Lithium battery charging 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.

Approval Listings / Approbations homologations
FCC / IC - ETL Listed Conforms to UL268 & 521
cETL Listed Certified to ULC S530 & S531
Other Standards
RoHS

FEDERAL COMMUNICATIONS COMMISSION ISED 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 Class B Statement

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:
This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, replace it with a quality outdoor antenna.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

ISED CLASS B STATEMENT

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC / ISED STATEMENT

This device complies with Part 15 of the FCC Rules, and ISED's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference (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'ISED. 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.

RF Exposure Warning

The antenna(s) used for this transmitter 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.

Mise en Garde

Exposition aux Frequences 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 ISEDs.

Responsible Party / Issuer of Supplier's Declaration of Conformity: Ademco Inc., a subsidiary of Resideo Technologies, Inc., 2 Corporate Center Drive., Melville, NY 11747, Ph: 516-577-2000

The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.
Any attempt to reverse-engineer this device by decoding proprietary protocols, de-compiling firmware, or any similar actions is strictly prohibited.

SUPPORT & WARRANTY INFORMATION

For the latest documentation and support, please go to:
www.resideo.com

For the latest warranty information, please go to:
www.security.honeywellhome.com/warranty

resideo

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