

Honeywell

SiXREPEATER Wireless Repeater

INSTALLATION INSTRUCTIONS

The Honeywell SiXREPEATER is an RF receiver/transmitter intended to extend the range of Honeywell's SiX series devices by 200 feet (nominal range). The SiXREPEATER receives alarm, status, and control messages from SiX series devices. Once received, it forwards these messages to controller. The controller then responds accordingly (arm/disarm the system, initiate an alarm, etc.).

FEATURES

- Transmits its own status, including tamper, AC loss, and RF Jam.
- Status sent when any change occurs or during the one hour supervisory check in.
- Provides a 24-hour backup rechargeable battery.
- Features a Spatial Diversity system that virtually eliminates the possibility of "Nulls" and "Dead Spots" within the coverage area.
- Front and wall tampers

GENERAL GUIDELINES

- The SiXREPEATER module uses a 5VDC power supply to charge the battery (Max wire length is 9.8 ft. (3m)).
- If the voltage drops to 3.6VDC a low battery occurs.
NOTE: It is incapable of charging the battery if the voltage is lower than 2.6VDC (it must be replaced.)
- Before mounting permanently, conduct the Go/No Go test (see controller's instructions) to verify adequate signal strength, relocate if necessary.

- Can be installed in a residential environment and is designed to operate 200 feet through three walls of wood, aluminum and dry wall construction.
- Designed for a single repeat, meaning the correct path is transmitter > repeater > receiver. **NOT** transmitter > repeater > repeater > receiver.

PLACEMENT

Find the "Null" or "Dead Spot"

1. Enter the Go-No-Go test mode: **For Lyric control: Security > Tools > Installer Code > Test > Go-No-Go Test.**
2. Activate any enrolled SiX transmitter in your hand. Listen for the panel to beep and acknowledge the fault.
3. With the enrolled transmitter in your hand continue to fault/restore it as you walk further from the controller until the panel stops acknowledging it. This is the ideal mounting location.
4. Mount the SiXREPEATER in this location following the guidelines below.

MOUNTING

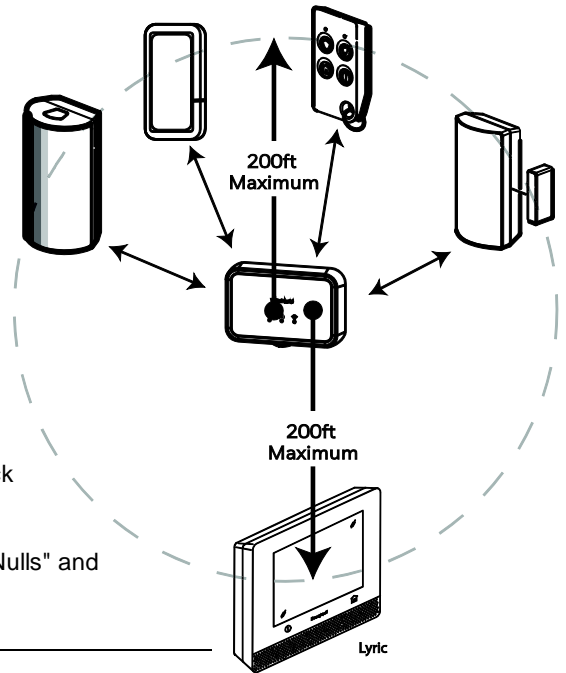
NOTE: for best results mount the SiXREPEATER as high as possible, keeping it away from metal objects.

1. Select a mounting position for the module.

IMPORTANT!
DO NOT mount on or inside a metal enclosure/object.

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

MOUNTING DIAGRAM PLACEHOLDER, NEED NEW PLASTICS DESING BEFORE I CAN MOVE FORWARD WITH THIS ILLUSTRATION.



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. View via Lyric "Program Zones" or SiX Programming display, or AlarmNet 360.

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

ENROLLING

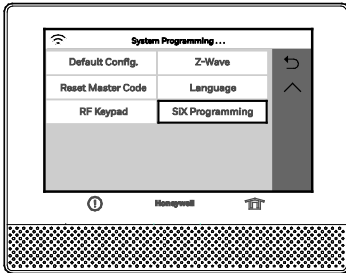
For Lyric Controller

- Set the *Controller* in Programming Mode and select SiX Programming.
 - For Lyric: Security > Tools > Installer Code > Program > SiX Programming**
- On the SiXREPEATER, power up:
 - Power LED flashes for approximately 20 seconds
 - Power LED turns on
 - Power LED turns on for 3-seconds
 - SiXREPEATER sends the information to the control and the MAC ID displays
- Press **Save** to complete the enrollment.

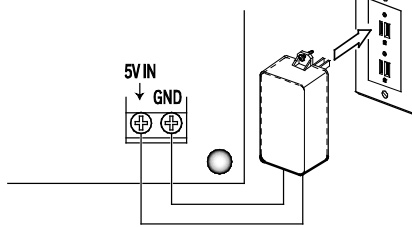
FOR LYRIC GATEWAY

Use AlarmNet 360™ to enroll and program this sensor.

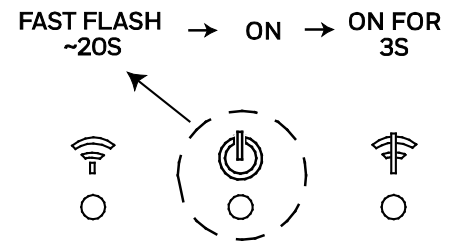
① PROGRAM > SIX PROGRAMMING



② POWER UP PLUG IN TO AN UNSWITCHED RECEPTACLE.



③ LED OPERATION



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 setting:

- Open the cover and verify device is powered on.
- Press and hold the tamper switch for 20 seconds.
- The Green enrollment LED rapidly flashes and the SiXREPEATER 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 SiXREPEATER reports this condition to the control. If a low battery or tamper condition exists, the enrolled zone used for the SiXREPEATER shows a trouble on the control.

IMPORTANT!

The first battery test occurs one 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 one minute.

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 PCB) lights (can take up to 30 seconds).

NOTE: This LED is not seen with the cover on. To view, the tamper switch must be pressed down on the SiXREPEATER. Select it again to turn the LED off or select the next device to locate.

SUPERVISION

If module supervision is desired, assign the SiXREPEATER's enrolled zone to a supervisory zone type. This sends check-in, low battery, AC loss, and RF jam messages. See "Enrolling" section.

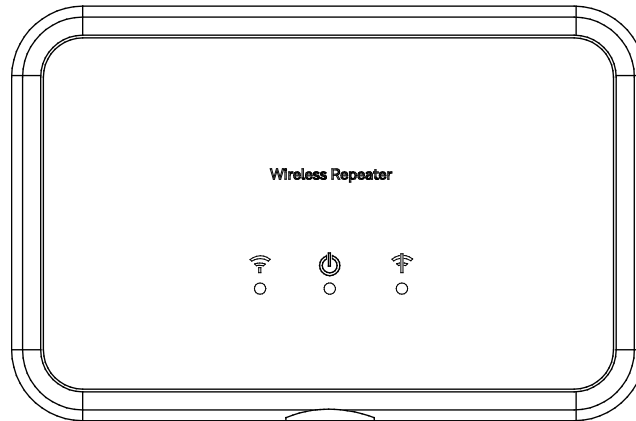
Program the zone configuration as follows:




Zone Type	Input Type	Loop
8 (24-hour aux)	3 (supervised RF)	1

NOTES:

- The SiXREPEATER reports AC loss and RF jam conditions as "low battery" status, which is also displayed on the control's keypads. This prevents either condition from causing an alarm when the control is armed.
- The SiXREPEATER does not repeat a message that has already been repeated.
- If an actual low battery condition is reported, it takes up to 12 hours after AC power is restored for the low battery restore message to be sent (requires 12 hours for fully recharged battery).

LED STATUS TABLE

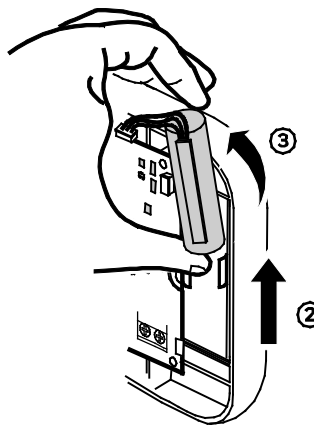
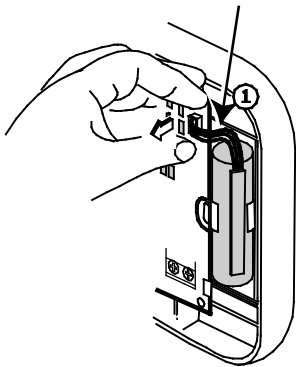


	 RSSI	 Power	 RF Jamming
Green	Reliable Signal	AC Powered	OK, No Jamming
Yellow	Marginal Signal, relocated	Operating on Battery	Jam Detected
Red	No Signal	Low Battery	Can't avoid Jamming

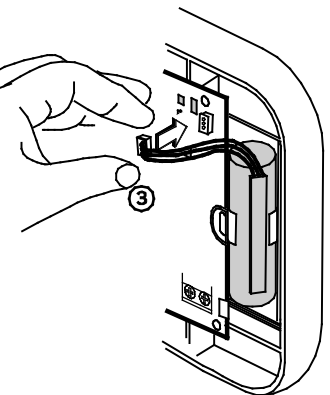
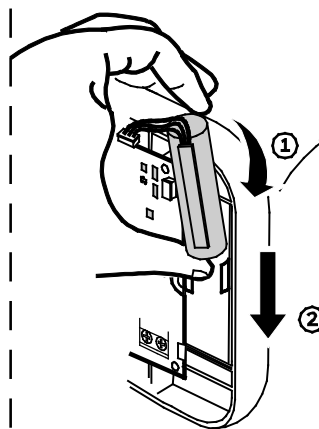
REPLACING THE BATTERY

REMOVAL

CAUTION!
PULLING THE WIRES MAY
CAUSE DAMAGE TO THE
BATTERY AND/OR SiXC2W.



INSTALLATION



SPECIFICATIONS

Voltage

Transformer Part Number..... 300-10259
 Input Voltage..... 100 ~ 240VAC, 50 ~60 Hz
 Operating Voltage..... 5VDC (1A)
 Maximum Transformer Distance 9.8ft. (3m)
 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** 6.9 in
 (175 mm) x **Width** 4.4
 in (113 mm) x
Depth 1.2 in (31 mm)
 Conduit Insert 1/2 in (12.7mm)
 Acceptable Cable Size 14 – 22AWG

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) & ISED

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 / 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, 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'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.

Responsible Party / Issuer of Supplier's Declaration of Conformity: Honeywell International, 2 Corporate Center Drive., Melville, NY 11747, Ph: 516-577-2000

Partie responsable / Émetteur de la déclaration de conformité du fournisseur : Honeywell International, 2 Corporate Center Drive., Melville, NY 11747, Tél. 516 577-2000

SUPPORT, WARRANTY, & PATENT INFORMATION

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



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Warranty



Patents

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