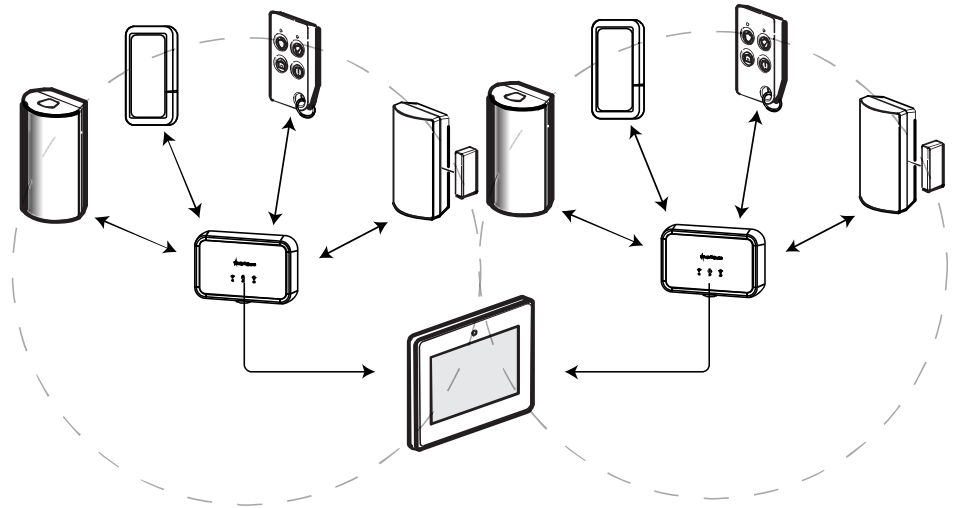


Installation and Setup Guide

The PROSiXRPTTR is an RF receiver and a transmitter and is intended to extend the indoor range of PROSiX series devices. The PROSiXRPTTR receives alarm, status, and control messages from PROSiX series devices, and forwards these messages to control panel. The control then responds accordingly (arm/disarm the system, initiate an alarm, etc.).

FEATURES

- Transmits its own status, including wall and case tamper, AC loss, low battery and RF Jam.
 - Indicates RF Jam, AC/Battery Status, and RSSI (Received Signal Strength Indicator) using LED's.
 - RSSI indicates the signal condition between the repeater and the control.
 - Provides a 24-hour backup rechargeable battery
 - ETL listed to meet UL standards.
 - Up to 2 repeaters per system.
- NOTE:** Repeater 1 does not communicate with repeater 2.



GENERAL GUIDELINES

- The PROSiXRPTTR module uses a 5VDC power supply to power the module and charge the battery.
- The PROSiXRPTTR uses a 4.2VDC rechargeable backup battery. If the voltage drops to 3.6VDC a low battery occurs.

NOTES:

- If the battery voltage falls below 2.6VDC, it is incapable of charging the battery; it must be replaced.
- New batteries may indicate they are low on initial startup; however, they should reach sufficient charge in 1 hour.
- Before mounting permanently, enroll the PROSiXRPTTR (see control's instructions) to verify adequate signal strength, relocate if necessary.
- PROSiXRPTTR is designed to operate 200 feet through three walls of wood, aluminum and dry wall construction.

When a single repeater installation is required.

- Range of the control and sensor is more than 200 ft. line of sight.
- Signal strength of sensors is less than 2 bars for one or more sensors.
- Walk Test Failure of any PROSiX Sensor / PROSiX Keypad.
- If installation requires more than two floor communication.
- If more obstacles are interfering (more than three walls, high density metal doors, wood doors, multiple concrete walls, etc.) with communication between sensor and control.

When a second repeater installation is required.

Same as Single Repeater installation except:

- Range of the panel and sensor is more than 500 ft line of site, then install the control in the middle with repeaters on either direction of the panel.
- If Installation requires more than 3 floor Communication. Install Controller on the middle Floor; then install Repeater based on the steady Amber RSSI (Signal Strength) LED indication as described in LED table below.

NOTE: Maximum number of the repeater allowed in a system is two. The path of transmission is as follows: transmitter → repeater → control. NOT transmitter → repeater → repeater → control.

COMPATIBILITY (REPEATER READY SYSTEM)

- All sensors (including keyfobs) connected to the control require a firmware version of 5.0.1 or higher.
- The PROA7/PROA7PLUS control panel firmware version must be at revision 03.591.88 or higher.

NOTES:

- If control's firmware is less than that described above, then the control will have to be updated. Either by firmware update or full control replacement.
- If the revision of the sensors is less than 5.0.1 (i.e. pre-existing sensors), the control panel firmware must be updated in order to update the sensor firmware.
- When updating the control and sensors, allow 24-hours for all the sensors to update.

MOUNTING

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

1. Select a mounting position for the module.

IMPORTANT!

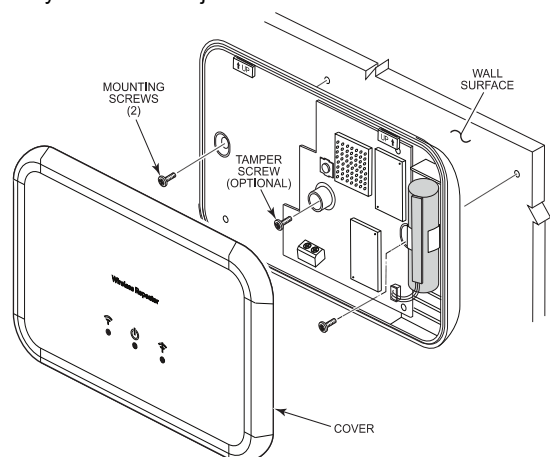
- **DO NOT** mount on or inside a metal enclosure/object.
- **Don't** install near to **WIFI Routers, Microwave Oven and other interfering devices. Maintain at least 10 feet distance.**

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 or staples 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.

AC POWER

The repeater is powered by a 5VDC, 1 Amp Plug-in Power Supply (Part #: 300-10342). Refer to the wiring table below for wire gauge and length:

Wire Gauge	Wire Length
#22	Up to 20 feet (6m)
#20	Up to 33 feet (10m)
#18	Up to 50 feet (15m)



Use only the 300-10259 Power Supply. Plug the battery prior to providing power from AC Outlet.

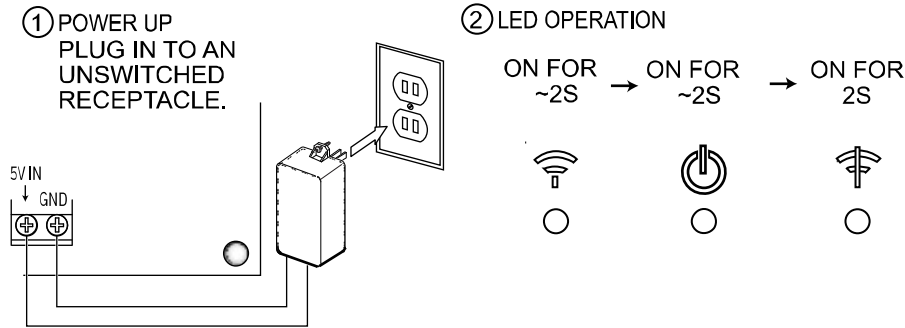
NOTE: For Indoor Use Only.

ENROLLING

You must enroll the device in the control. The repeater enrolls as a sensor but, does not require a "Device" or "Response" type. To enroll: Put the control in Sensor Learn Mode and plug the PROSiXRPTR in, it automatically attempts to enroll upon power up. If it times out, press and release the tamper to reinitiate the enrollment process or remove and reconnect AC power.

NOTES:




- Refer to the LED Status Table for the operation of the LED's during enrollment.
- Once enrolled in a system, the PROSiXRPTR cannot be used with another controller until it is removed from the current controller. See the Controller's instructions for details.
- Enrollment time varies depending on the signal strength between the device and the controller. When done, Power LED is ON for 3 seconds and the controller beeps to confirm enrollment. Keep near the control until all three LED's are solid green.
- The PROSiXRPTR should be installed before any other sensors.



NOTE: Must be installed in accordance with the National Electrical Code, ANSI/NFPA 70

LED STATUS TABLE



	 RSSI	 Power	 RF Jamming
Green	Reliable Signal	AC/Battery OK	OK, No Jamming
Amber	Marginal Signal, relocate	No Battery or Low Battery	N/A
Red	No Signal (Slow Blinking)	No AC, Running on Battery (See note 3,4)	RF Jam Detected
Enrolling (Green LED's Only) (Note 1)	Scrolling	Scrolling	Scrolling
Enrollment Successful (Amber LED's Only)	Scrolling	Scrolling	Scrolling
Enrollment Time Out (Red LED's Only) (Note 2)	Rapid Blink	Rapid Blink	Rapid Blink
Normal Delete (Green LED's Only)	Rapid Blink	Rapid Blink	Rapid Blink
Self-Delete (Green LED's Only)	Rapid Blink	Rapid Blink	Rapid Blink
Programming	LED OFF	X (Green, Red, or Amber)	LED OFF

NOTES:

1. Cycle for scrolling Enrollment LED is 2 sec ON / 4 sec Off.
2. Blinking will continue for 5 seconds and then ALL LED's will go BLANK.
3. RED LED should be slow blinking (ON for 0.5seconds; OFF for 3 seconds)
4. The RSSI and RF Jamming LED's will be off.

INSTALLING THE PROSiXRPTR

1. Using the "Compatibility Section" above confirm the controller and sensors are at the correct revision level to support the PROSiXRPTR.
2. Enroll the PROSiXRPTR by keeping near the controller until all three LED's are solid Green. The PROSiXRPTR should be enrolled as a sensor from AN360 or the control.
3. With battery power applied and the Repeater cover removed, move the PROSiXRPTR away from the control in the direction in which the sensor(s) are not communicating with the control.
4. The PROSiXRPTR verifies the signal strength between the control and PROSiXRPTR every five seconds. The RSSI LED will change from Green to Amber (Green means you are within range) after 30 seconds. Amber LED tells you this is the furthest from the control you can mount the PROSiXRPTR. Red LED indicates the repeater is out of range with the control panel.
5. Perform an "Add Sensor" command from AN360 (a sensor does not have to be added at this time, just cancel the command). Doing this forces the Control to request signal strength from all sensors. Once a sensor has joined the PROSiXRPTR the signal strength should be at least 2 bars.
6. AN360 or the Control can indicate which the sensor is connected (Either the control, repeater 1 or repeater 2). On the control, go to sensors to determine which it is connected to. If sensor signal strength is too weak (less than two bars) then the control can send a "Rescan Repeater" command. This is done through AN360 (Diagnostics Page) or the control's Installer/Master Tools screen.
7. Perform a Sensor Walk Test to verify sensors are communicating through the PROSiXRPTR or directly to the controller.
NOTE: Make sure all doors/windows are closed before entering Walk Test.

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:

1. Open the cover and verify device is powered on.
2. Press the tamper for 1/2 second, release for 1/2 second and repeat four more times. (for a total of five).
3. All three LED's rapidly flash and the PROSiXRPTR defaults, leaving only the Power LED on.

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

NOTE: if all LED's light solid red for 5-seconds, then you are passed the 24-hour window.

TAMPER/LOW BATTERY REPORTING

The PROSiXRPTR reports this condition to the Control. If a low battery or tamper condition exists, a Zone XX Repeater Trouble or Low Battery displays on the Control.

NOTE: 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).

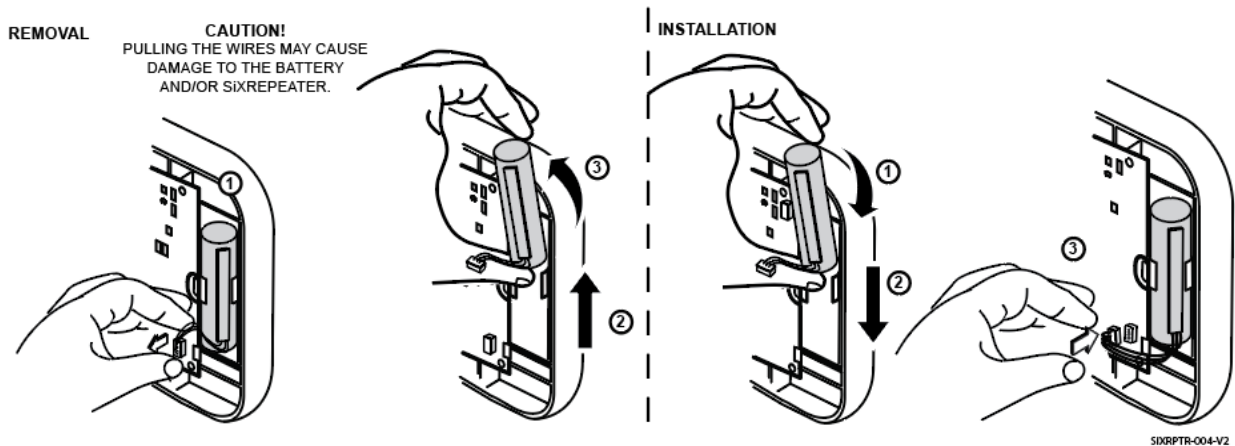
IMPORTANT!
 For the first hour after power up the battery is tested every minute. After the first hour of power up the battery is tested every 12 hours. To quickly verify a good backup battery, unplug and then plug back in the power supply; the system will perform a battery test within one minute.

SUPERVISION

The PROSiXRPTR reports AC loss and RF jam conditions, which displays a trouble on the Control's keypad(s). This prevents either condition from causing an alarm when the Control is armed.

NOTE: RF Jam is an optional feature and is enabled by default. It must remain enabled in programming for an RF Jam condition to be indicated.

REPLACING THE BATTERY



SPECIFICATIONS

Voltage

Transformer Part Number	300-10259
Input Voltage.....	100 ~ 240VAC, 50 ~60 Hz
Operating Voltage.....	5VDC (1A)
Maximum Transformer Distance	See Power Supply Table
Battery	300-10342

Environmental

Operating Temp.....	32 °F (0°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 (175mm) / Width 4.4 in (113 mm) / Depth 1.2 in (31 mm)
Acceptable Cable Size.....	18 – 22AWG

TEST SYSTEM WEEKLY

NOTE: System must also be tested with AC power removed.

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

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.

APPROVAL LISTINGS / APPROBATIONS HOMOLOGATIONS

UL 985:2015 Ed.6+R:12Jul2018
UL 1023:2017 Ed.7
UL 1610:2016 Ed.4
UL 1637:2017 Ed.5
UL 2017:2008 Ed.2 +R:17Jan2016

ULC S304:2016 Ed.3 +R:10Oct2018
ULC S545:2002 Ed.2
ULC SUBJECT C1023:1974 Ed.1
CSA C22.2#205:2017 Ed.3

OTHER STANDARDS

RoHS



System shall be installed in accordance with CAN/ULC-S540, Residential Fire Warning Systems.
System shall be installed in accordance with Chapter 29 of the National Fire Alarm and Signalling Code, ANSI/NFPA 72.

System shall be installed in accordance with CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations ; CAN/ULC S302, Standard for the Installation, Inspection and Testing of Intrusion Alarm Systems; and CAN/ULC S301, Standard for Signal Receiving Centre Intrusion Alarm Systems and Operations.

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.

CLASS B DIGITAL DEVICE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, as defined by FCC Rules Part 15.105. The Class B Digital Device statement can be viewed at: <https://customer.resideo.com/en-US/support/residential/codes-and-standards/FCC15105/Pages/default.aspx>

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.

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
www.resideo.com

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

