

UNIVERSAL RECEIVER (uRx)



General Operation

- The uRx is used as the receiver for the Keypad and uTx (Repeater Station).
- The Universal Receiver (uRx) is also used to remotely trigger the operation of electronic devices using Roboguard signals.
- The uRx can be “taught” to respond to any particular roboguard radio signal – Tamper, Intruder, Auto-test and Remote Tx. (Intruder and Remote are the most

common).

- Once the uRx has learned a roboguard code, every time it receives that radio signal, it will respond by triggering a connected device.
- This connected device may be an alarm system, a camera system, a siren, an SMS module, a timer relay - in fact any device capable of being triggered by an electronic signal.
- For example, the uRx can be programmed to respond to a radio signal from a Roboguard handheld remote. This handheld remote can then be used as a panic button and the uRx can be used to trigger an SMS module to send an sms call for help in response to the panic signal.
- Other popular uses include operating garage doors, switching on external lights and triggering a strike-lock.
- The installer must connect the uRx to a 12V-power source and to the device that you wish to trigger.
- The installer must also configure the options on the uRx to correctly trigger the connected device and must program the transmitter into the uRx through a learning process.

Installation

- When used as a data receiver for the uTx (repeater) or Keypad, connect 12 volts and 0 volt to the terminals.
- Connect the data output (RXO) terminal to the Data/RXD input terminals on the Keypad/uTx. (see Repeater Station in this manual)

- The uRx will learn ANY roboguard signal - Tamper, Intruder, Auto-test and Remote Tx, unlike the HQ and Keypad modules, which only learn tamper signals.
- Note that the uRx does NOT supervise the radio link.
- +12V, 0V, Rx Data (RXO) and Trigger (N/C) terminals are clearly indicated on the unit.
- **The I/O1 and I/O2 terminals are not used in this device.**
- The 2-way DIPswitch is used to configure the polarity (SW1) and the Switch timing (SW2).
- The uRx will deliver a 2-second pulse or a 5-minute pulse, depending on timing configuration. (A latched version, the uRxL is also available, for latching requirements)
- The unit has 3 LEDs, one displaying Status of the unit (it will vary its flash rate for different option settings), one displaying RF data and one displaying output.

Position the uRx in a position suitable for the reception of radio signals from the intended source.

Obviously the device to be triggered will need to be located nearby. (Check for radio interference by observing the flashing of the RF LED. If the RF led is flashing brightly and continuously then you may have a problem with radio reception. Confirm this by transmitting from a roboguard product to see how the RF-led flashes for data reception).

Wiring

See wiring Diagram Below.

Wire the uRx to +12V and 0V, ensuring the 0V is common with the 0V of the device to be switched.

Wire the data line or the trigger (NC) outputs as needed.

The NC output is an open-collector low-side driver capable of sinking 500mA continuously. It can therefore be used to drive sirens, relays etc.

Should it be used as a data output, use a (type 1k) pull-up resistor at the connected device.

Coding

The device will learn any Roboguard code transmitted while in learn mode.

Activate learn mode by using a conductor (like a screwdriver) to short out the program pads on the PCB.

The program pads are located between the letter B and the 2-way DIPswitch on the PCB. (See below)

The status LED will now remain on (solid) until the device learns a valid roboguard code.

Transmit the desired code (Intruder, tamper or remote).

Remove the conductor.

To confirm the coding, activate the programmed device and check the output LED

Note: To send an intruder code, trigger the top and bottom PIR on the Roboguard while the uRx is in learn mode.

When the code is learned, the status LED will reset back to flashing.

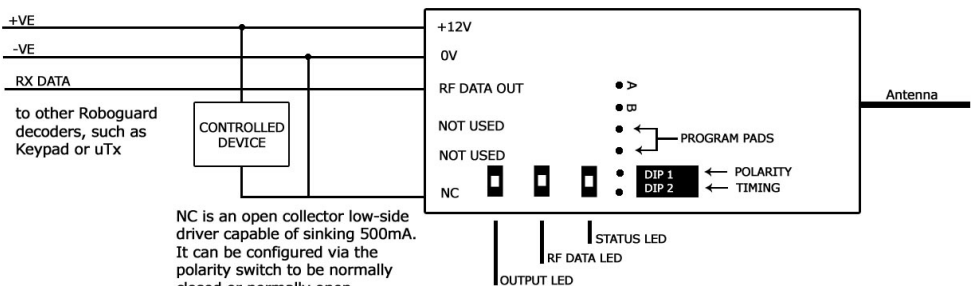
Note: If the unit is powered up with the programming input shorted, the unit will erase any learned code.

Configuration

Place the DIP switches in the required positions as per the information in the connected device's installer manual and the table below.

Function	Switch 1 - Polarity	Switch 2 - Trigger Time
ON	N/O	5 minute pulse
OFF	N/C	2 second pulse

uRx and uRxL



NC is an open collector low-side driver capable of sinking 500mA. It can be configured via the polarity switch to be normally closed or normally open.

PLEASE NOTE: Do not connect any +VE voltages directly to NC