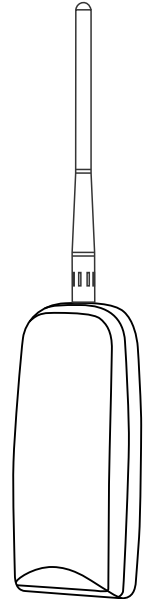


Model No: RX1-500

1 Channel Receiver with low battery detect : 500m Code Hopping

Technical Specifications:

Model:	RX1-500
Encryption type:	Code hopping
Transmission frequency:	403MHz (local) 433MHz (export)
Transmission method:	OOK
Modulation	AM
Transmission range:	500m "Line of sight"
Memory capacity:	80 remotes
Voltage range:	10VAC/DC to 26VAC/DC
Standby current consumption:	+/-22mA 10%
Current consumption triggered	+/-60mA 10%
Operating Temperature:	-3°C to 49°C
Dimension (lxbxh)	145 x 66 x 40mm
Gross weight:	170g



Features:

- Code-Hopping Encryption
- Low battery open collector output
- 1 x 1A Relay output
- Normally Open / Closed
- 16 dip-switch setable functions
- False alarm immunity function
- Weather-proof ABS housing
- Frequency stability controlled +/- 75KHz

Approvals:

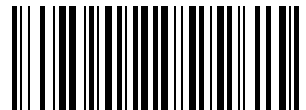
This product is approved for use in residential, commercial and light Industrial environment and complies with the essential protection requirements of the R&TTE Directive 1999/EC on the approximation of the laws of the Member states relating to electromagnetic compatibility and radio spectrum.

Certifications:
 ETSI EN300 220-V2.4.1
 ETSI EN301-489-3 V1.4.1
 ETSI EN301-489-1 V1.9.2
 IEC 60950-1:2005 + A1:2009
 ICASA TA-2017/2237



Order Codes:

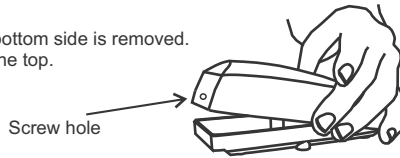
1 Channel Receiver : 500m Code-hopping	RX1-500
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RX1 - 500

Opening the unit

Remove the Aerial and make sure the screw on the bottom side is removed. Carefully lift the lid up from the back end and unclip the top.

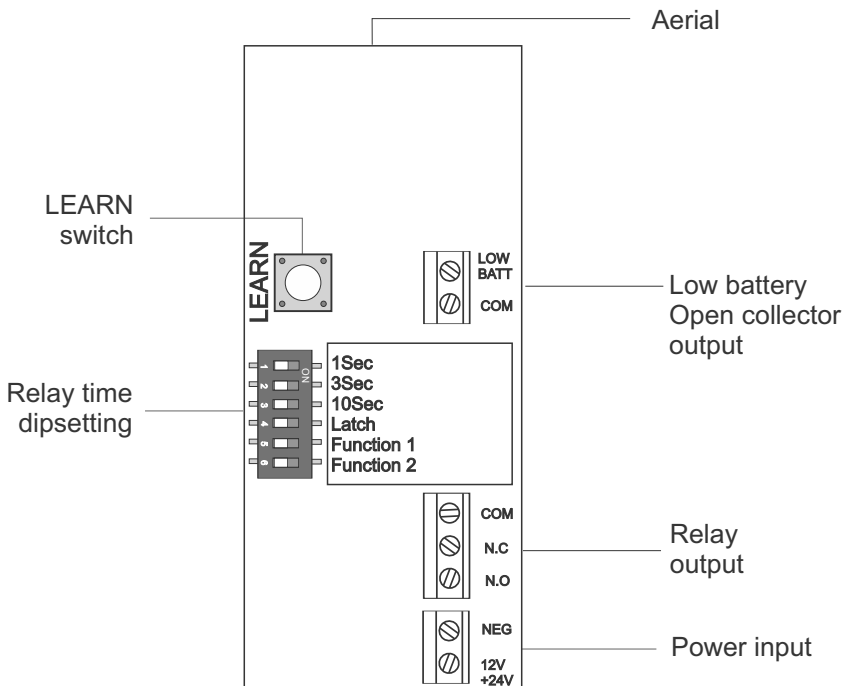
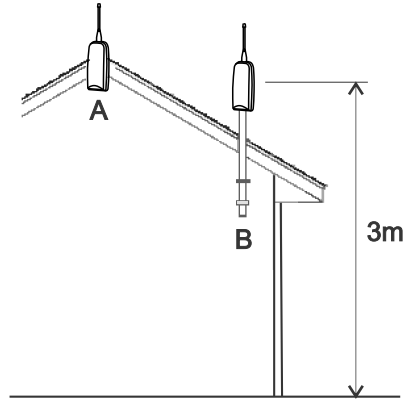


Mounting advice

The plastic housing is splash proof, and may be mounted externally if required. The unit should be mounted vertically for best performance. Ensure that you do not mount the unit close to electric fence cables or energizers, as these products produce extreme levels of interference and may reduce the performance of the product. If mounting indoors try and centralise the unit, and keep it at least 3 metres away from armed response company's alarm radio transmitters.

We recommend the unit to be mounted more than 3 metres above the floor height just above the trap door. For large properties that require exceptional range, mount the unit externally.

Always conduct a signal range test before you hand over the product to the client, ensuring that the system works reliably. You may need to move the unit if you encounter dead spots. In rare cases you may need to install a booster repeater unit for coverage around large multi levelled sites.



Defaulting the RX1-500

Note: Please default the unit first before installation. This will erase any previously programmed factory test remotes from the memory.



Press and hold for more than 10 Seconds. When the beeping stops the unit is defaulted. Wait a few seconds until the unit boots up.

Programming remotes in

1. Default the unit before you begin a new installation. This erases all previously programmed remotes.
2. Press the LEARN switch once to step to relay 1. > 1 x beep sounds
3. Press the button on the remote control a few times to learn in to the RX1-500. > 2x beeps sound
4. Continue to learn in any additional remote controls until all the remotes are programmed in.
5. Press the LEARN switch again to exit from learn mode. > 1 x long beep sounds

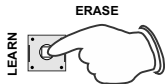
Note: The unit can be programmed with up to 80 remotes. When the memory limit has reached its limit the RX1-500 will auto exit out of program mode. The unit auto exits out of program mode if nothing is received after 30 seconds.

Programming the ON/OFF function

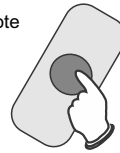
1. Default the unit before you begin a new installation. This erases all previously programmed remotes.
2. Select the Dip-switch 4&5 on.
3. Press the LEARN switch once. (This is for the ON command). > 1 x beep sounds
4. Press the button on the remote control to be learnt in. > 2 x short beeps sound
5. Press the LEARN switch again to advance to the OFF command. > 2 x beeps sound
6. Press the button on the remote control to be learnt in. > 2 x short beeps sound
7. Press the LEARN switch for the last time to exit out of learn mode. > 1 x long beep sounds

Erasing individual remotes

1. Set dip-switch 4;5;6 On
2. Press the LEARN switch
3. Press the remote to be erased
4. Repeat step 2 & 3 for each remote to be erased.
5. Un set the dip-switch setting



Repeat for each remote to be erased.



Press the button to be erased



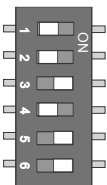
20 beeps

You must erase one remote at a time.

False Alarm immunity ideal for remote Panic

When setting the Dip-switch setting 3;5 & 6 On, the receiver unit will only activate from a valid remote control if the remote control is pressed more than three(3) times within a 10 second window period. This feature is ideal for preventing false alarm panic activations with clients who carry a panic on them all the time.

The user will need to be taught how to use the panic button in an emergency by pressing the button in and out a number of times in order for the receiver to activate. The user must make them selves familiar with the feature by regular testing the remote control with the alarm system.



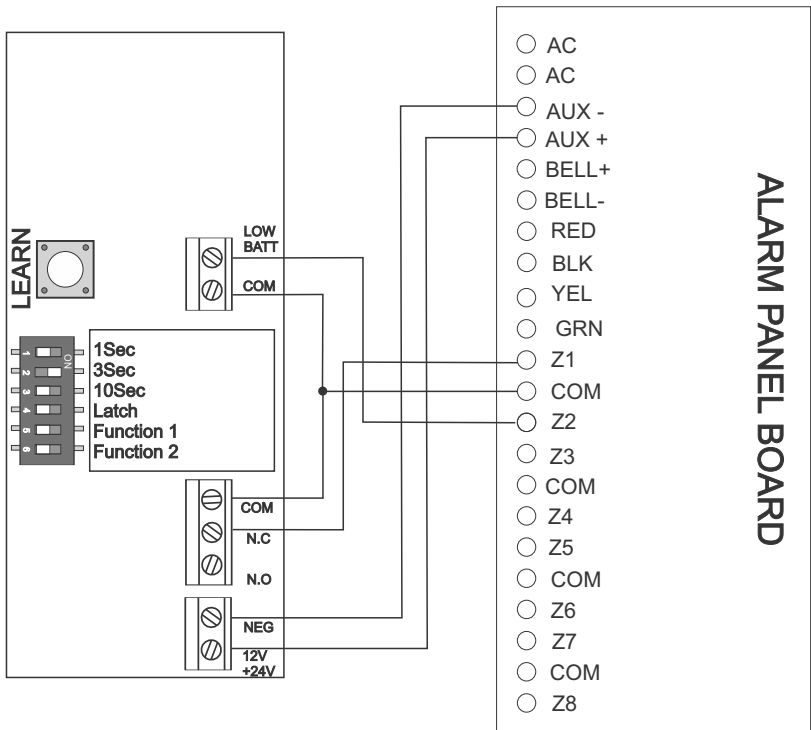
1 Second High traffic buzzer on
3 Second high traffic buzzer on
False Alarm immunity
Erase individual remotes
Function 1 On
Function 2 On

Wiring diagram

Panic with a Low battery detect on an alarm panel:-

The example below depicts the wiring from the receiver to an alarm panel where:-
Zone 1 is configured as a 24 hour Panic input (N. Closed) & Zone 2 is configured as a 24 hour Faulty condition Low battery for the Panic (N.Open)
Set the Dip-switch for 3Sec.

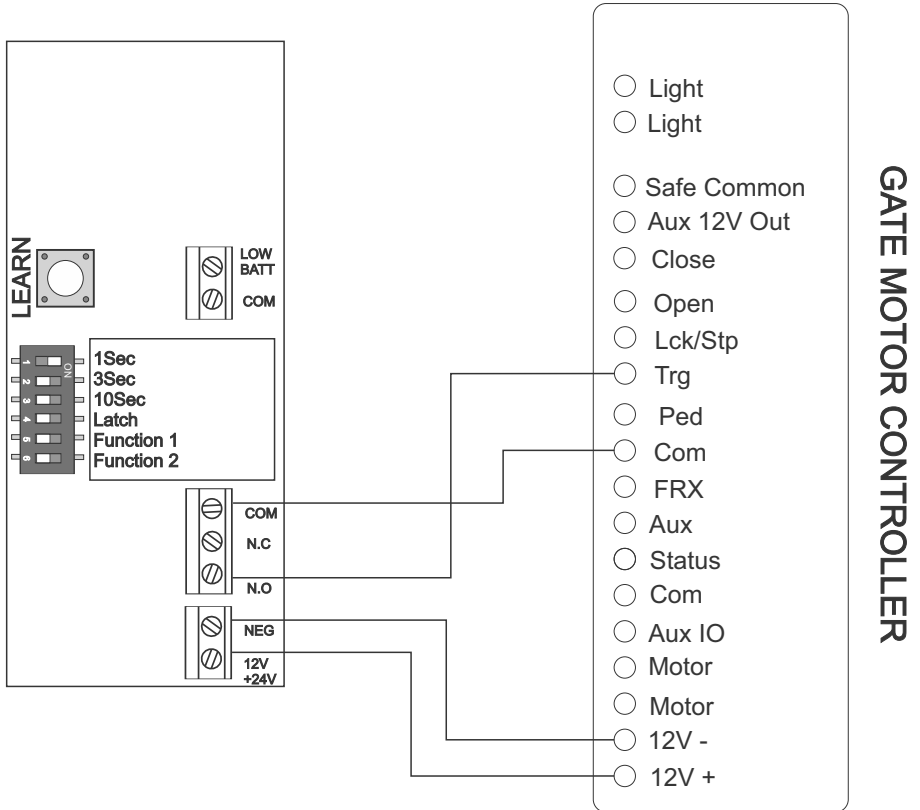
The **Low battery** output is a Open collector (max100mA) type output.
The output will switch to Negative for 3 seconds when the receiver receives a signal from a remote control that has a flat or low battery level.
10V or lower is considered a low battery level in 12V batteries &
2.6V is considered a low battery level in 3V Batteries.



Wiring diagram

Gate motor:-

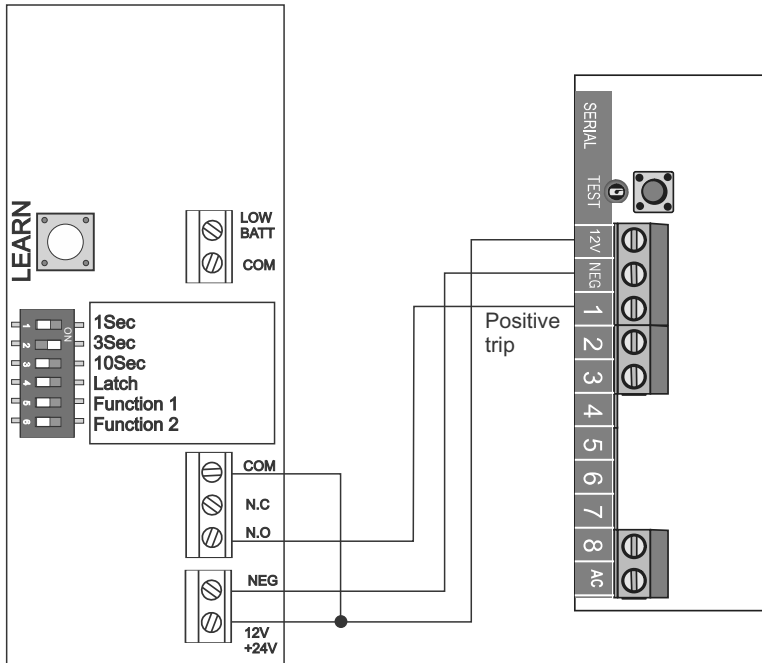
The example below depicts the wiring from the receiver to a gate motor:-
The Commons on both receiver and gate motor must be connected together.
The N.O is wired to the Trg (Trigger),
Set the Dip-switch to 1Sec



Wiring diagram

Typical panic to radio transmitter:-

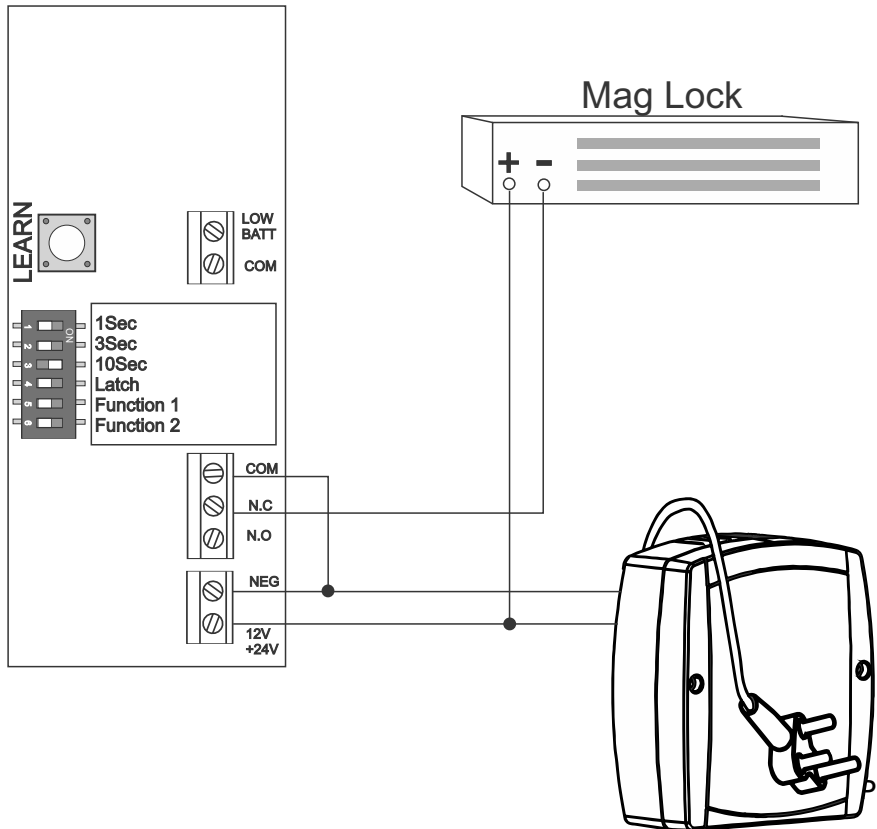
The example below shows the wiring from the receiver to a alarm radio:-
Wire COM to +12V POSITIVE. The N.O is wired to the Panic input on the radio usually input 1, Set the Dip-switch for 3Sec



Wiring diagram

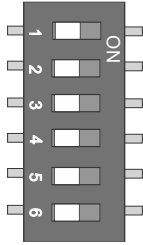
Typical mag lock:-

The example below shows the wiring from the receiver to a mag lock:-
Wire COM to NEG (Negative). The N.C is wired to the Negative of the magnetic lock. +12V Positive from the power supply wires up to + on the magnetic lock, Set the Dip-switch for either 10Sec or 30Sec



Relay time jumper settings

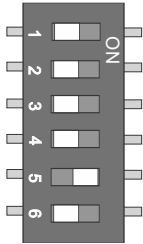
Function 1&2 Off



1 Second
3 Second
10 Second
Latch

Function 1 Off
Function 2 Off

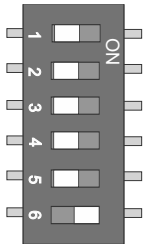
Function 1 On



Hold on
30 Sec
1 Minute
On/Off

Function 1 On
Function 2 Off

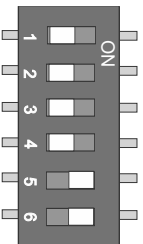
Function 2 On



1 Second High traffic buzzer is OFF
3 Second High traffic buzzer is OFF
2 Minutes
3 Minutes

Function 1 Off
Function 2 On

Function 1&2 On



1 Second High traffic buzzer is ON
3 Second high traffic buzzer is ON
False Alarm immunity
Erase individual remotes

Function 1 On
Function 2 On

Warranty

This product is sold subject to our standard warranty conditions and is warranted against defects in workmanship for a period of two years.

Customer Support line: +2711 462 5101 E-mail: technical@sherlotronics.co.za