SHERLO TRONICS

Installation Instructions - For Service Persons Only

Model No: RX1-150 Revision 2022

Product Description

1 Channel Receiver: 150m Code Hopping

Features

• Code-Hopping Encryption; 1 x Relay output
• Normally Open / Closed; ABS housing
• Frequency stability controlled +/- 75KHz
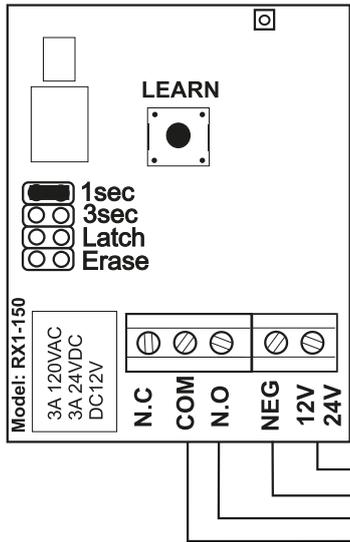
Technical Specifications:

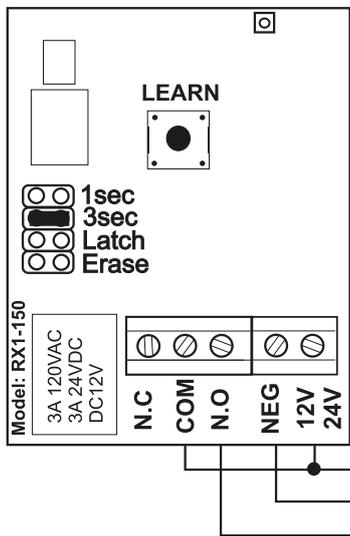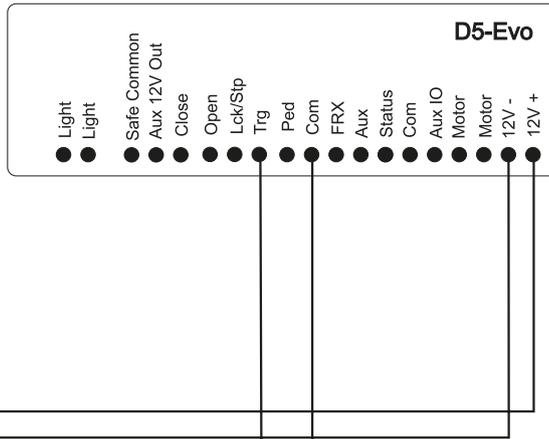| Model:	RX1-150
Encryption type:	Code hopping
Transmission frequency:	403MHz (Local) 433MHz (Export)
Transmission method:	OOK
Modulation:	AM
Transmission range:	150m "Line of sight" 60m"Indoors"
Memory capacity:	80 remotes
Voltage range:	10VDC to 24VDC
Standby current consumption:	+/-14mA 10%
Current consumption all on:	+/-50mA 10%
Operating Temperature:	-7°C to 49°C
Dimension (lxbxh)	100 x 60 x 25mm
Gross weight:	78g Packed

Warranty

This product is sold subject to our standard warranty conditions and is warrantied against defects in workmanship for a period of 2 years.

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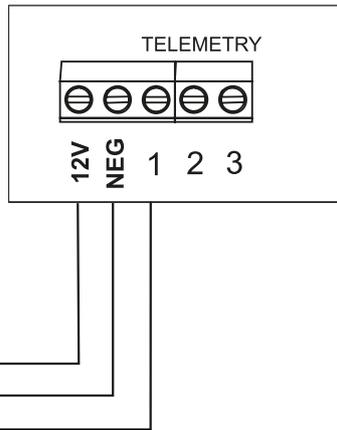
Wiring

Typical Gate Motor

LEARN

- 1sec
- 3sec
- Latch
- Erase

Model: RX1-150

3A 120VAC
3A 24VDC
DC12V

N.C COM N.O NEG 12V 24V

D5-Evo

Light | Light | Safe Common | Aux 12V Out | Close | Open | Lck/Stp | Trg | Ped | Com | FRX | Aux | Status | Com | Aux IO | Motor | Motor | 12V - | 12V +

Typical Alarm Radio

LEARN

- 1sec
- 3sec
- Latch
- Erase

Model: RX1-150

3A 120VAC
3A 24VDC
DC12V

N.C COM N.O NEG 12V 24V

TELEMETRY

12V NEG 1 2 3

Relay time jumper settings

0.5 Second
- ○○ 1sec
- ○○ 3sec
- ○○ Latch
- ○○ Erase

Gate & garage
door automation

1 Second
- ■ 1sec
- ○○ 3sec
- ○○ Latch
- ○○ Erase

Gate & garage
door automation

3 Seconds
- ○○ 1sec
- ■ 3sec
- ○○ Latch
- ○○ Erase

Panic on
alarm panel

30 Seconds
- ■ 1sec
- ○○ 3sec
- ■ Latch
- ○○ Erase

Maglock
release

1 Minute
- ■ 1sec
- ■ 3sec
- ■ Latch
- ○○ Erase

Beam /
Zone bypass

3 Minutes
- ○○ 1sec
- ■ 3sec
- ■ Latch
- ○○ Erase

Siren output or
beam bypass

On / Off
- ■ 1sec
- ○○ 3sec
- ○○ Latch
- ○○ Erase

Code 1 = ON
Code 2 = OFF

Latch & Unlatch
- ○○ 1sec
- ○○ 3sec
- ■ Latch
- ○○ Erase

Arming & Disarming
alarm panels

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. (1 x beep sounds)
3. Press the button on the remote control 2 times to learn the code to the receiver. (2x short beeps & 1 x Long beep)

   The unit exits from program mode when a new remote is learnt. This helps prevent the unit from learning in stray signals

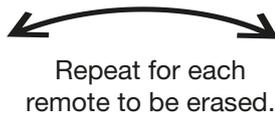4. Continue with step 2 to 3 to learn additional new remotes

NOTE:

Note: The unit can be programmed with up to 80 remotes. When the memory limit has reached its limit the RX1-150 will auto exit out of program mode. The unit auto exits out of program mode if Nothing is received after 30 seconds.

Erasing individual remotes

1. Link the ERASE jumper
2. Press the LEARN switch
3. Press the remote to be erased
4. Repeat step 2 & 3 for each remote to be erased.
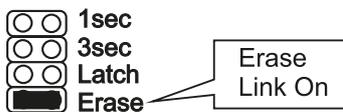5. Remove ERASE jumper when done

LEARN

Repeat for each remote to be erased.

1sec
3sec
Latch
Erase

Erase Link On

Press the button to be erased

20 beeps

Note: Erase one remote at a time.

Programming the ON/OFF function

1. Default the unit before you begin a new installation. This erases all previously programmed remotes.
2. Select the 1 sec & 3 sec relay time jumpers respectively.
3. Press the LEARN switch once. (ON = 1 x beep)
4. Press the button on the remote control for the ON command. (2 x short beeps sound when the remote is learnt in)

5. Press the LEARN switch again to advance to the OFF command (2 x short beeps sounds)
6. Press the button on the remote control for the OFF command. (2 x short beeps sound when the remote is learnt in)
7. Press the LEARN switch again to exit out of learn mode (1 x long beep sounds)

Defaulting the UNIT

Note: Please default the unit first before doing a brand new 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 it re-boots.

LEARN

ℹ️ What to do if you suspect your remote is false triggering

If you have experienced the strange phenomena of finding your gate or garage door been open sometime in the middle of the night and suspect that it may be the remote control false triggering, please follow the below steps to identify what the cause may be. This will help solve the mystery and prevent any further disruptions.

Step1: Open up all the remote controls, as in unscrew the housings and remove the board completely out the housing. Once you have done this, carefully inspect each remote board making sure that you do not have any moisture / water / corrosion / loose parts, broken / sticky or collapsed buttons. Also check for heavy wear and tear on the casing as the remote may have been stood on or dropped from a height and could be cracked.

Step 2: Open the housing of the remote control's receiver device. This is the device that is connected to the gate or garage door motor. This device receives the signals from the remote control and is usually a small black box with a wire antennae or a larger white box with a screw-on whip antennae. Once you have opened the receiver device, check for any moisture on the board, ants nesting, damaged components or loose wires. Also please check if the board has a QC date code label. If your receiver is more than 7 years old, please look at upgrading the device as it may have components that are not working correctly anymore.

Step 3: Open the Gate or Garage door motor housing and inspect the electronic board making sure that no insects are nesting on the board, moisture or water is present and that the board is clean dust free and looks undamaged.

Step 4: Default the Receiver. Please follow the applicable Defaulting instructions according to the model receiver you have installed. In most instances you need to remove all the jumpers off the board and press and hold the LEARN button down for 20 seconds. For models older than 5 years, revert to the manual.

Step 5: Relearn in the Remote controls making sure that they were inspected first on Step 1. Also do this part carefully making sure that no stray signals from other remotes are accidentally learnt in. Once you have followed all the steps above, monitor your system. If you experience further problems, please contact us for advice.

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-2017/1846

Order Codes:

1 Channel Receiver:
150m Code-hopping
RX1-150