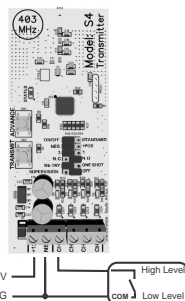


Programming a receiver with ON / OFF functionality

1. Select the ON OFF function jumper on both the receiver you are programming and the S4.
Note: **Make sure the receiver is defaulted & remove any wires from the S4 channel inputs.**
2. Press the ADVANCE button on the S4. Channel 1 LED will switch on.
3. Press the LEARN button on the receiver. The receiver beeps once.
4. Press the TRANSMIT button on the S4. This activates the ON signal. The LED will flash 5 times.
The receiver will beep a few times acknowledging that it is learning the signal.
5. Press the LEARN button on the Receiver again. The receiver beeps twice.
6. Press the ADVANCE Button on the S4. The LED will flash continuously.
7. Press the TRANSMIT button to learn in the OFF signal on to the receiver. The receiver will beep a few times acknowledging that it is learning the signal.
9. Follow steps 2 to 7 for each Channel following or just keep pressing the ADVANCE button until the unit steps past Channel 4 and the LED's start to running to indicate the unit is in standby.
10. Test that the ON /OFF function is working correctly by triggering the channel inputs with a wire connected to either POSITIVE or NEGATIVE

Model: S4



ON / OFF functionality explained

Once the ON/OFF jumper is connected, the transmitter will transmit a signal encoded to switch a receivers relay contact either ON or OFF depending on the transmitters trigger input condition. The function will only work on **ON / OFF** (enabled receiver units). This functionality ensures the unit does not get out of sequence with the receiver as with normal latching/unlatching functions. If you are using a different 12V power-source to that of the transmitter, then it is recommended to common up on the Ground / Negative so that all the devices have a common negative reference.

NEG & POS jumper setting explained

By enabling the **NEG** jumper the unit will trigger when a Negative input or ground reference. The **+POS** jumper enables the unit to trigger from a Positive voltage reference input.

1 & 3 jumper setting explained

By enabling the **1** jumper the unit will trigger one RF signal when its input is triggered.
Jumper **3** will enable the unit to trigger 3 x RF signals every time the input is triggered. We recommend setting the unit to **3** for all alarm applications.

N.C & N.O jumper setting explained

By enabling the **N.C** jumper the unit will trigger from Normally Closed inputs. All un-used inputs must be bridged out when using the **N.C** setting. **N.O** will enable the unit to trigger from Normally Open inputs.

RE-TRY jumper setting explained

By enabling the **RE-TRY** jumper the unit will re-transmit out a signal every 10 minutes. This ensures the system works reliably and does not miss any ON or OFF signals. This function will only work when the ON/OFF function jumper is enabled.

Supervision functionality explained

The SUPERVISION Jumper enables the unit to transmit out a system alive signal every 60 minutes. This function will only be compatible to receivers that have SUPERVISION enabled firmware. Please refer to the relevant receivers installation manual for a more info.

Compatible receivers

Please follow the relevant Receivers Installation instructions to programming the unit to a receiver.
The S4 is compatible to the following Receiver models:
Model: RX1-150; Model: RX2-150; Model: RX3-150; Model: RX1-500; Model: RX4-500; Model: MB4000

Warranty

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

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

English

Installation Instructions - For Service Persons Only

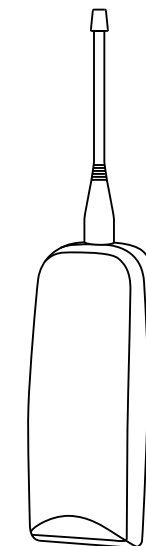
Model No: S4

4 Channel Stand-alone Transmitter

Technical Specifications:

Model:	S4
Encryption type:	Code hopping
Transmission frequency:	403MHz (Local) 433MHz (Export)
Transmission method:	OOK
Modulation	AM
Transmission range:	1500m "Line of sight"
Voltage range:	10V to 16VDC
Standby current consumption:	< 20mA
Current consumption on TX:	< 110mA
Operating Temperature:	-3°C to 49°C
Dimension (lxbxh)	145 x 66 x 40mm
Gross weight:	135g

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Features:

Code-Hopping Encryption
4 Independent Inputs
Positive or Negative triggering
Normally Open / Closed
Weather-proof ABS housing
Frequency stability controlled +/- 75KHz

Approvals:

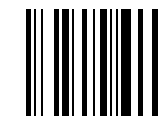
This product is approved for use in Residential, commercial and Light Industrial Environment and Complies with the essential protection requirements of the R&TTE Directive 1999/EC on the approximation of the laws of the Member states relating to electromagnetic compatibility and radio spectrum.

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



Order Codes:

4 Channel Stand-alone Transmitter S4

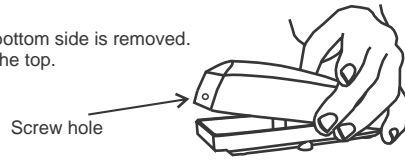


S4

For more info visit our web site: www.sherlotronics.com

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.

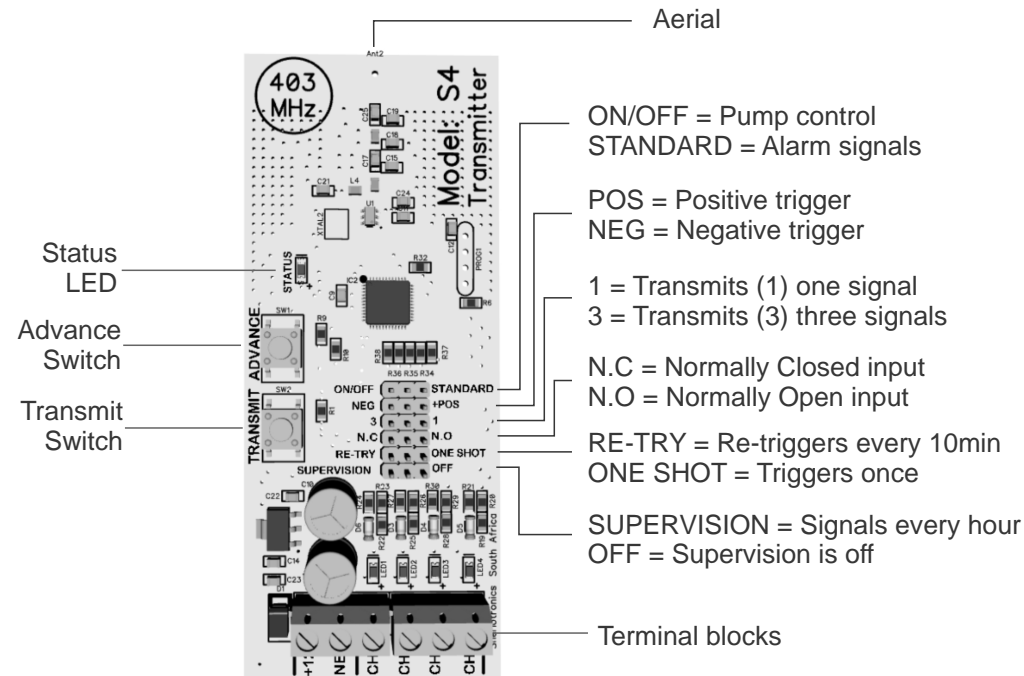
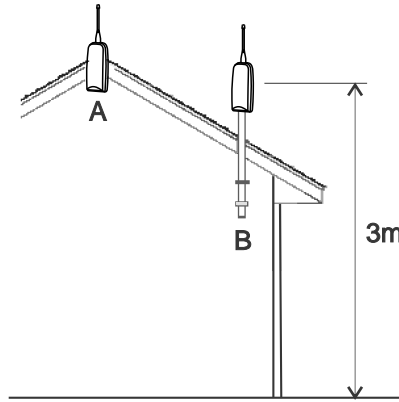


Mounting advice

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 receiver. If mounting indoors try and centralise the unit in the middle of the building, and keep it at least 3 metres away from armed response company's alarm radio transmitters.

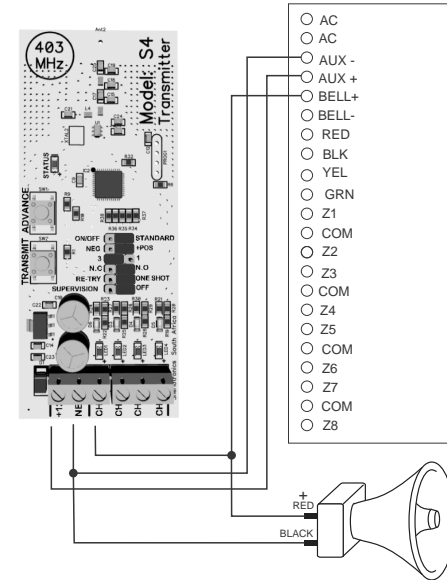
We recommend you mount the unit more than 3 metres above the floor height or just above the trap door. For large properties that require exceptional range, mount the unit externally.

Always conduct a signal range test before you hand over the product to the client, ensuring that the systems 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.



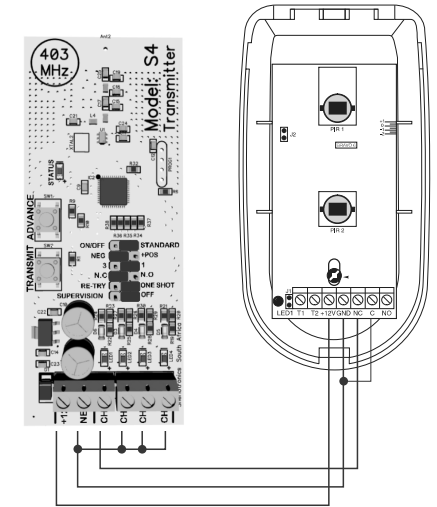
Wiring diagram

Connecting a siren alarm panel output



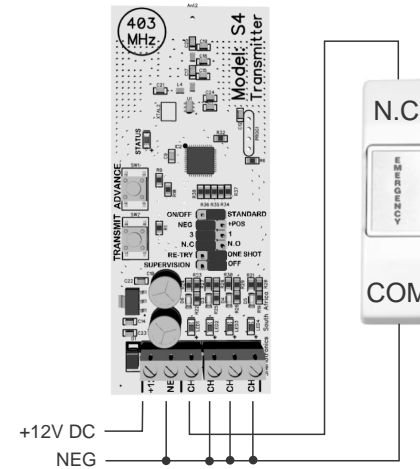
Note: If Alarm panel is programmed to squawk when armed/dissarmed, do not use the Siren output and rather use a PGM output

Connecting a motion beam



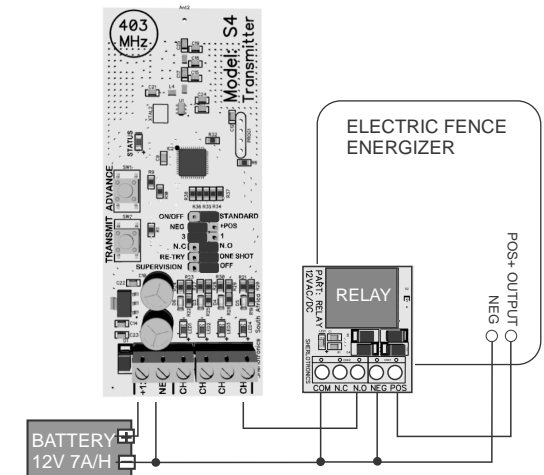
Note: Link all un-used channels to NEGATIVE(-) if the unit is set to Normally Closed (NC)

Connecting a static panic switch



Note: Link all un-used channels to NEG(-) if the emergency switches are wired to Normally Closed (NC)

Connecting a electric fence energizer



Note: Channel 4 has a 2 second de-bounce delay. This prevents spikes generated from the electric fence system from false triggering the unit. All other channels have a 0,5 second de-bounce delay. Install a separate relay board to isolate any spikes.