



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Highly Secure FM Keeloq

### Features

- FM Remote Control System
- Keeloq™- High Security 
- Range up to 150metres
- 1 -4 button versions
- Transmitter Waterproof to IP68
- 12 or 24Vdc Supply
- 'Easy Learn' up to 7 Transmitters
- Easy Installation via Screw Terminals
- Relay Changeover Outputs 5A @ 230Vac
- Momentary or Latching Outputs



### Description

A highly secure general purpose remote control, which can be used for controlling many different applications.

The system utilises Keeloq code hopping protocol to ensure reliable operation.

Easy to install, the receiver is connected using standard 'screw terminals' provided. Power to the receiver is 12 or 24Vdc and the output(s) can switch up to 5A at 230Vac.

The receiver outputs operate when the transmitter switch is pressed. The outputs can be set to 'momentary' or 'latching' operation.

The system is supplied ready to 'plug and play', in addition a further 6 transmitters can be 'learnt' to the receiver.

Part Number	Description	Freq (MHz)
FOBLOQF-4S1	1 channel FOBLOQ system	433.92
FOBLOQF-4S2	2 channel FOBLOQ system	433.92
FOBLOQF-4S3	3 channel FOBLOQ system	433.92
FOBLOQF-4S4	4 channel FOBLOQ system	433.92



# FOBLOQF Remote Control



## Additional Transmitter Key fobs



Part No	Additional	FM Transmitters	Range
FOBLOQF-4T1	Transmitter Key fob 1 switch	433.92	150
FOBLOQF-4T2	Transmitter Key fob 2 switch	433.92	150
FOBLOQF-4T3	Transmitter Key fob 3 switch	433.92	150
FOBLOQF-4T4	Transmitter Key fob 4 switch	433.92	150

\*\* Range stated is optimal, in some conditions this may be dramatically reduced.

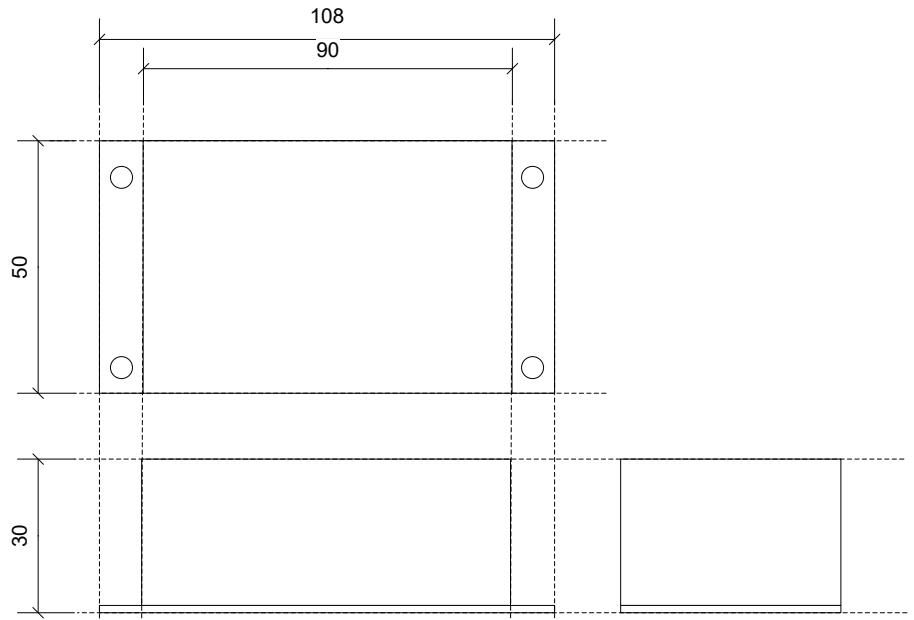
### Key fob dimensions:

(All dimensions in mm)



### Enclosure dimensions:

(All dimensions in mm)

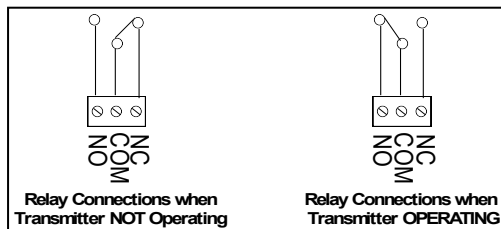


# FOBLOQF Remote Control



## Data Outputs

Each output relay provides an isolated switch. Outputs 2 to 4 Connections are Common (COM) and Normally Open (NO) which close together when activated. Output 1 has an additional Normally Closed (NC) changeover contact.



The action of the relay outputs is set by the Option link setting Jumper. A link is made / removed by the small shorting link 'cap' placed over the pin header.

**Option Link 1 Fitted = Momentary Operation**

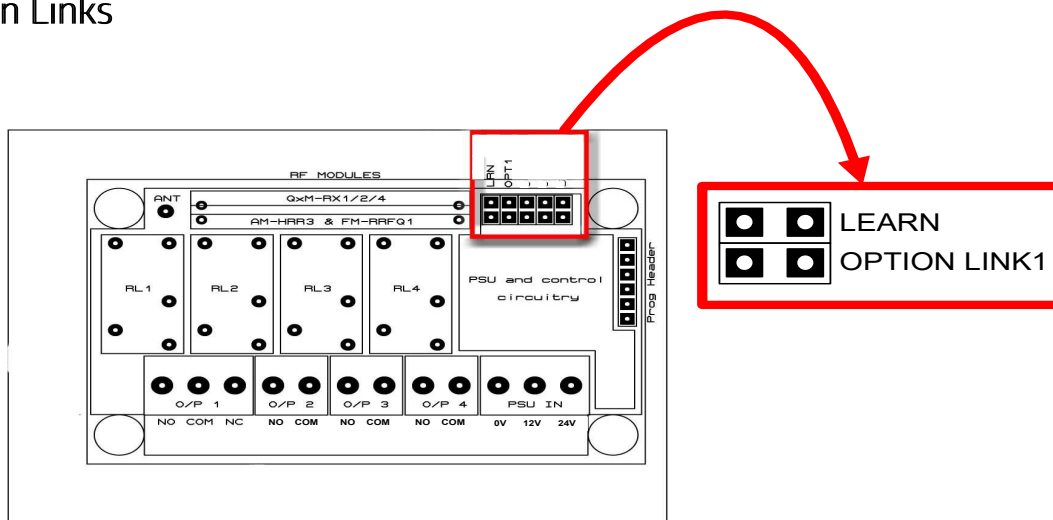
**Option Link 1 Not Fitted = Latching Operation**

### Please Note:

The relay contacts in this unit are for functional use only and must not be used for isolation purposes

**WARNING** When used to switching mains voltage this product must be installed by a competent electrician.

## Option Links



## Learning a New Transmitter Keyfob

Briefly short the two 'learn' pins on the receiver PCB, the receiver relays will click continuously.

Press any transmitter button once, the receiver relays will stop.

Press the same transmitter button again, the receiver relays will 'buzz' briefly.

After a short time delay for reset, this transmitter will operate the Receiver.

## Erasing Existing Transmitters

Short the two learn pins on the receiver for 10 seconds then remove the short.

The receiver relays will 'buzz' briefly after the 10 seconds to indicate the Tx encoder(s) have been erased

NOTE: You can not erase individual Transmitters



# FOBLOQF Remote Control



## Technical Specifications

Fobloq Transmitter Key fob

Battery Type CR2032 (supplied)

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage	2.3	3	3.3	V
Supply Current : Quiescent		<1		uA
Supply Current : Transmitting		17		mA
Operating frequency		433.92		MHz
Output Power			10	dBm
Frequency Tolerance		60		KHz

## Changing the battery

Remove the screw holding the back panel in place. Open the case and change the battery. Ensure you check the orientation.

### Receiver Decoder

Dimensions 90mm (108mm incl Flange) x 53mm x 30mm

ELECTRICAL CHARACTERISTICS	Min	Typical	Max	Units
Supply Voltage for +12Vdc	11	12	13	Vdc
for +24Vdc	23	24	25	Vdc
Supply Current: Quiescent		14		mA
All relays operating		140		mA

## RF Solutions Ltd. Recycling Notice

Meets the following EC Directives:

### DO NOT

Discard with normal waste, please recycle.



### ROHS Directive 2002/95/EC

Specifies certain limits for hazardous substances.



### WEEE Directive 2002/96/EC

Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfills its WEEE obligations by membership of an approved compliance scheme.

### Waste Batteries and Accumulators Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

Environment Agency producer registration number: WEE/JB0104WV.

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