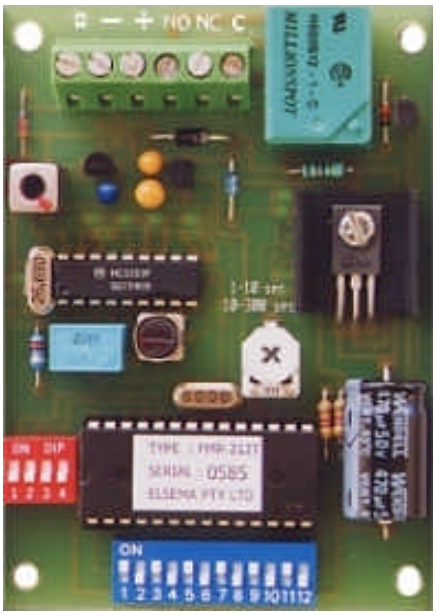
FMR-212T
10-28VAC/DC RECEIVER WITH TIMER CONTROLLED RELAY OUTPUT

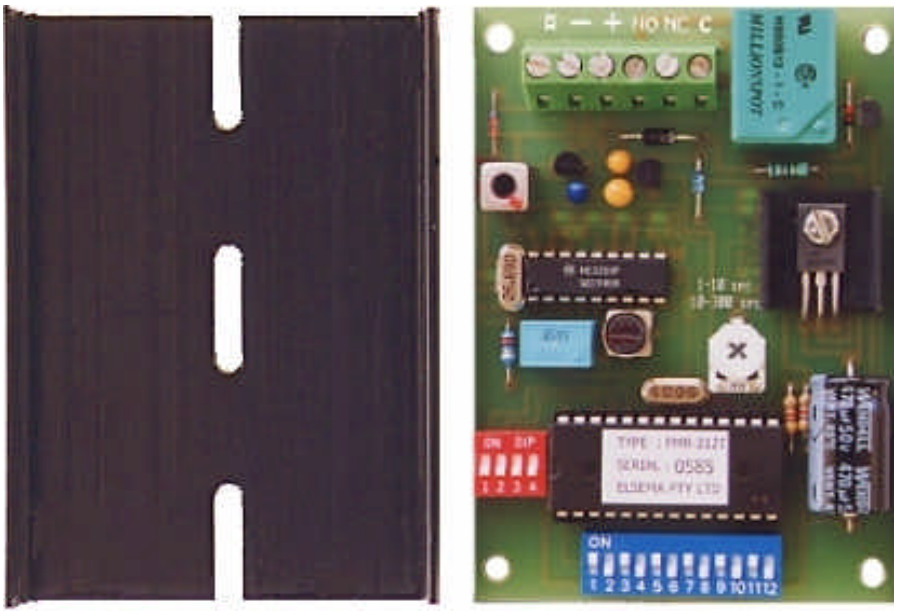
The FMR-212T is a 10 to 28 volt single channel receiver with nine different relay output modes. Each mode is user selectable by changing the setting on the 4-way dip switch. Modes include momentary, flip-flop, 1-10 second delayed off, 10 - 300 second delayed off, pulsing, latching, On-Off, custom and test.

FMR-212T



The FMR-212T can be clipped into the QM100 quick mount. The quick mount has slots to enable easy mounting of the receiver on walls, roofs etc.

FMR-212TQ



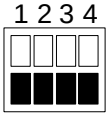
The FMR-212T is available with an UBB plastic case. With an UBB case the receiver is called a FMR-212TE.

NINE DIFFERENT RELAY OUTPUT MODES

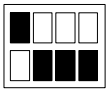
4-Way Dip Switch Mode Settings

The output relay will respond in the following manner when receiving the correct signal from a transmitter

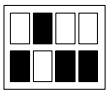
1 2 3 4



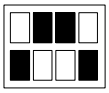
"Momentary": Relay on, only while correct signal is received.



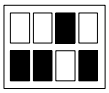
"Flip- Flop": Relay alternates at every correct incoming signal.



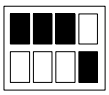
"Delayed Off 1": Relay on, but delayed off for 1-10 seconds, adjustable by trimpot.



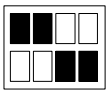
"Delayed Off 2": Relay on, but delayed off for 10-300 seconds, adjustable by trimpot.



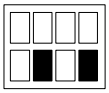
"Pulsing": Relay will pulse at 1 Hz for 10 - 300 seconds, adjustable by trimpot.



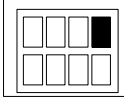
"Latching on": Relay will energize until supply to receiver is momentarily interrupted.



"On-Off": This mode requires a 2-channel Tx. Channel 1 will always energize the relay. Channel 2 will always de-energize the relay.



"Custom": This mode is reserved for specific customers requirements.



"Test": Relay is energized, for test purpose only.

The "Delayed Off" feature is when the relay stays activated, after receiving the correct transmitter code, for the specified time. The time can be specified using the trimpot.

When setting to "On-Off" mode the user should set the receiver's 12th code switch bit to "On" if the link is connected in the two-channel transmitter. If the link is removed the 12th bit is set to "Off".

Custom mode is reserved for customer's requirements. The FMR-212T has a built-in micro-controller, which can be easily programmed to suit unique applications. Contact our micro-controller programmer at support@elsema.com to specify your application. Normally a programming fee applies for specified applications.

Test mode is used when installing the receiver.

TECHNICAL DATA ON THE FMR-212T

SUPPLY VOLTAGE	11.0 to 28 VDC. 10.0 to 28 VAC Can use Elsema AC power supply (PP12 or PP24).
CURRENT CONSUMPTION	15.0 mA stand-by at 12 VDC Supply 44.0 mA if relay is “ON” at 12VDC.
RECEIVING FREQUENCY :	27.145 MHz (Other frequencies available on 27.045, 27.195 and 27.455 MHz. The 27.455 frequency is not available for Australia).
TYPE OF CRYSTAL USED :	26.690 MHz, 3rd overtone, 20 pf, 30ppm at 0 to 50°C.
IF FREQUENCY :	455 KHz
SELECTIVITY :	At least -40 dB at + - 10 KHz.
SENSITIVITY :	Better than 1µV (For relay to switch on).
TYPE OF DEMODULATION :	Narrow-band-width Frequency Modulation (FM).
BAND WIDTH :	+ - 2.5 KHz
DECODING SYSTEM :	On board 12-way coding switch (4096 Combinations).
OUTPUT :	Change over relays, rated at 5 Amps/240V.
RELAY CONTACTS :	Common (C) Normally Close (NC) and Normally Open (NO)
<u>CONNECTIONS</u> SUPPLY, ANTENNA AND CONTACTS :	6-way screw type terminal block.
TIMER :	Adjustable from 1 to 300 seconds. Refer to table for selecting different output modes.
ANTENNA :	50 ohms, 27 MHz CB-Antenna or piece of approximately 1 metre of wire.
DIMENSIONS :	96 X 70 X 20 mm
WEIGHT :	67 grams
USEABLE TRANSMITTERS :	All Elsema type FMT-... series.