ELS1155 (FMR-212T)

1-Channel 27MHz FM, Timer Controlled Receiver with Relay Output

Features

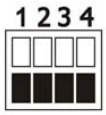
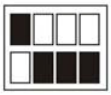
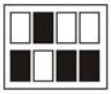
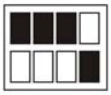
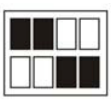
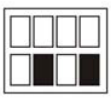
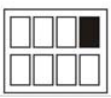
- Wide supply connection – 10.0 to 28.0 Volts AC or DC
- Crystal Controlled
- Digitally Encoded
- Delayed-off Output

Description

The FMR-212T is a single channel receiver with 9 different relay output modes. Each mode is user selectable by changing the setting on the 4-way DIP switch. Modes include momentary, latching, 1-10 second delayed off, 10-300 second delayed off, pulsing, security latching, on-off, custom and test.

9 Different Relay Output Modes of FMR-212T

A 4-way dip switch allows the user to select between 9 different output modes. This is shown below:

4-Way Dip Switch Mode Settings The output relay will respond in the following manner when receiving the correct signal from a transmitter.	
	Momentary Relay on, only while correct signal is received.
	Latching 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.
	Security latching 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.

Factory Default = Momentary

Momentary - Output is active for as long as the transmitter button is pressed.
This is a standard mode on most automatic gates or garage door openers.

Latching - Output remains active until next press of the transmitter button.
Similar to switching "on" and "off" a light.

Security Latching - Output remains active until power to the receiver is removed. Similar to security alarms and fire alarms. To activate the security latching mode, a link needs to be soldered into the hole marked as latching.

Compatibility

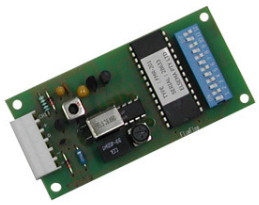
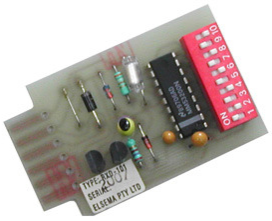
All Elsema type FMT-… series

KEY-301, KEY-302, KEY-304
FMT-301, FMT-302, FMT-304
FMT-401, FMT-402, FMT-404
FMT-312E, FMT-31202E, FMT-31204E

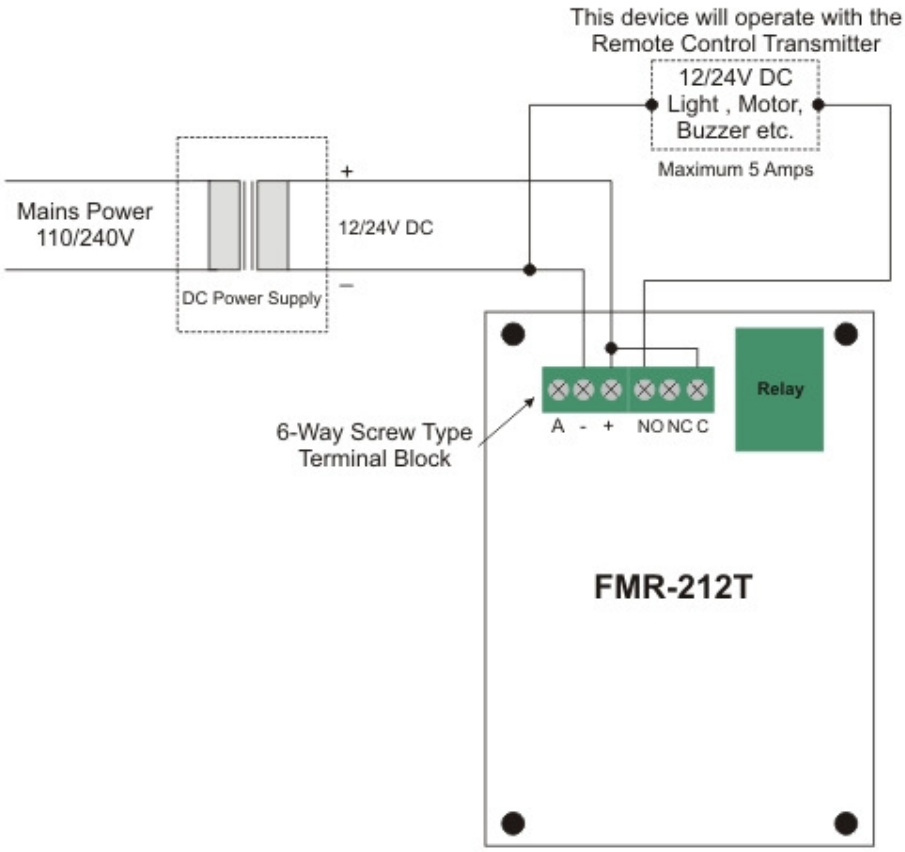
Technical Data

Power Supply	10 - 28 Volts AC or DC Can use Elsema AC power supply PP12 or PP24
Current Consumption	15mA stand by at 12 Volts DC; 40mA if relay is "ON" at 12Volts DC
Receiving Frequency	27.145MHz (Other frequencies available: 27.045, 27.195 & 27.455MHz. NB. 27.455MHz is available for Europe Only)
Sensitivity	Better than 1uV (for relay to switch on)
Type of demodulation	Narrow-bandwidth Frequency Modulation (FM)
Decoding System	Onboard 12-way coding switch (4096 digital channels)
Output	Change over relay output, rated at 5A / 240V
Relay Contacts	Common (C) Normally Close (NC) & Normally Open (NO)
Connections	6-way screw type terminal block
Antenna	Elsema's ANT27MHz series antennas or piece of approximately 300 mm long wire for short range applications.
Dimensions	96 x 70 x 20mm
Mounting	Clip into a QM100 Quick Mount or UBB plastic case
Weight	58g
Compatible Transmitters	All Elsema type FMT-... 27MHz series and KEY-3.. series

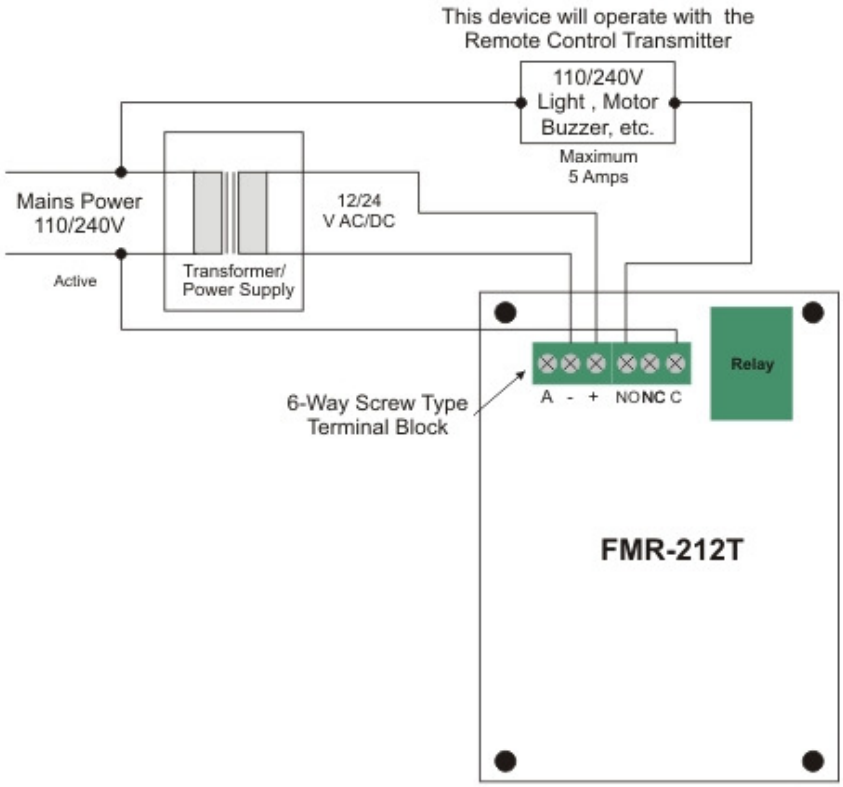
Products in the Range

				
FMR-201 Single Channel Receiver with Open Collector Output	**FMR-203** 2-Channel PCB Strip Receiver	**FMR-212** Single Channel Receiver with Relay Output	**FMR-212T** Single Channel Receiver with Timer Controlled Relay Output	**FMR-24001** Single Channel 240VAC Receiver with Relay Output
				
FMR-24002 2-Channel 240VAC Receiver with 2 Relay Outputs	**FMR-202** 2-Channel Receiver with 2 Relay Outputs	**FMR204-12** 4-Channel 12V Receiver with 4 Relay Outputs	**FMR204-24** 4-Channel 24V Receiver with 4 Relay Outputs	**FMR-204/16** 4/16 Channel Receiver with Open Collector Outputs
				
FMR-232R Computer Receiver with 2 Relay Outputs & Database Software	**FMR-100** Receiver for Multi-Channel System	**RXD-101** Decoder for Multi-Channel System		

FMR-212T, 12/24 V Application



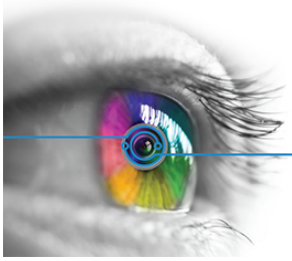
FMR-212T, 240/110 VAC Application



REGULATORY COMPLIANCE STATEMENTS

Australian and New Zealand Users

This device has been tested and found to comply with the limits for a Class [B] digital device, pursuant to the Australian/New Zealand Electromagnetic compatibility (EMC) standard AS/NZS 61000.6.3 set out by the Spectrum Management Agency.



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VIC Unit 7, 170 Forster Road, Mt Waverley VIC 3149
NSW Unit 5, 142 James Ruse Drive, Parramatta NSW 2150
QLD 15-19 Hudson Road, Albion QLD 4010
WA Unit 4, 200 Balcatta Road, Balcatta WA 6021
ACT Unit 2, 157-161 Gladstone Street, Fyshwick ACT 2609

1300 366 851 | seadan@seadan.com.au