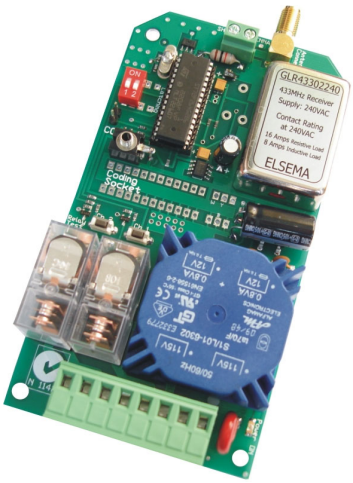
GLR43302240

2-Channel 433MHz Gigalink Receiver with Mains AC supply



Features

- Supply voltage 240VAC (also available in 110-120VAC supply for international markets)
- High efficiency toroidal transformer
- High capacity output relay
- Pluggable type terminal blocks for easy installation
- Test push buttons for the relay
- Momentary, Latching and Security latching modes are all user selectable
- Optional QM150 bracket available for easy mounting to cases or walls
- Also available in an IP66 rated case for outdoor installations.

Applications

- Pump Control
- Long distance light control
- On/Off applications in agricultural devices
- Basic Telemetry eg. Water level indication
- Security alarm

Description

The GIGALINK™, GLR43302240 is the most advanced Remote Control technology available in the world today. GIGALINK™ is an invention that has revolutionised the entire Remote Control technology including Elsema's earlier version of FMT- … and FMR- … series. The GLR43302240 state-of-the-art invention brings a new dimension in the world of Remote Control technology in domestic, commercial and industrial applications.

The toroidal transformer on this receiver is 25-30% more efficient than the conventional types. It has a low operating temperature, low hum and low stray magnetic field.

Connecting wires to the receiver has been made easier by the pluggable type terminal block. An on board LED indicates when power is connected and an extra LED on the board to indicate when the relay is activated. There is a test button for the relay output to test your connections.

There are test buttons for each relay output and a high quality SMA RF connector is added to the antenna connection on the 433MHz for optimum performance.

The receiver's high capacity output relay is capable of switching up to 16 Amps of resistive load and up to 8 Amps of inductive load. A world first for a standalone receiver.

The receiver can be mounted to a Quick Mount or in a weatherproof case with an IP66 rating.

Four billion codes
The user can easily change the code on all the channels. Momentary joining the two CC pins on the receiver board sets all channels to one random code. One of 4,294,967,296 possibilities is selected.

Code Programming
For code programming, please refer to the separate programming instructions.

When programming is completed and the GIGALINK cable is removed from the receiver-coding socket, the 2-way dip switch is used to select different output modes. This is described below.

Output Modes
Relay output on the receiver can function in either momentary or latching mode. By default the mode is set to momentary. Modes selectable from the 2-way dipswitch. Dipswitch 1 corresponds to relay channel 1 and dipswitch 2 corresponds to relay channel 2.

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.

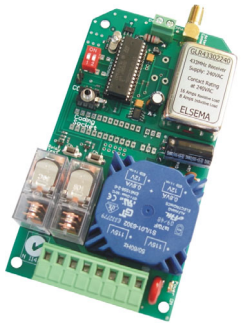
Customised Software
Custom output modes can be programmed to do special functions. Call Elsema for more details.

240 AC Supply, Antenna and Relay Connections
AC power supply and relay connections are via the pluggable type terminal block. Antenna is via a two-way pluggable type terminal block. Do not connect the supply to the 2.5-mm coding socket since connection will damage the microcontroller.

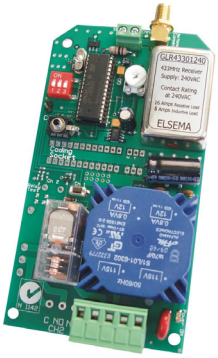
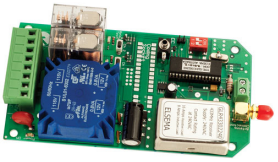
Applications
The receiver output can be set to different modes which allows it to be used in many diverse applications such as automatic gates, security, timer controlled outputs and simple on/off functions etc.

Unique Code System
The microcontroller EEPROM allows large volume users to have a unique code. This enables Elsema to offer everyone "your own" radio control.

Available with Options

		
GLR43302240 2- Channel 240VAC Supply	**GLR43302240Q** 2- Channel 240VAC Supply in Quick Mount	**GLR43302240E** 2- Channel 240VAC Supply in an IP66 rated Case and with 1.7metre AC cord for plug and play.

Products in the Range

				
GLR43301 1-Channel	**GLR43301240** 1-Channel, 240V	**GLR43302** 2-Channel	**GLR43302240** 2-Channel, 240V	**GLR4330312,** 3-Channel, 12 - 24V
				
GLR4330412 4-Channel, 12 - 24V	**GLR43304240** 4-Channel, 240V	**GLR43308** 8-Channel	**GLR4330812** 8-Channel, 12-24V Relay Output	**GLR43302SS** Receiver with 6-way female connector **GLR43302SST** Receiver with terminal block

Technical Data

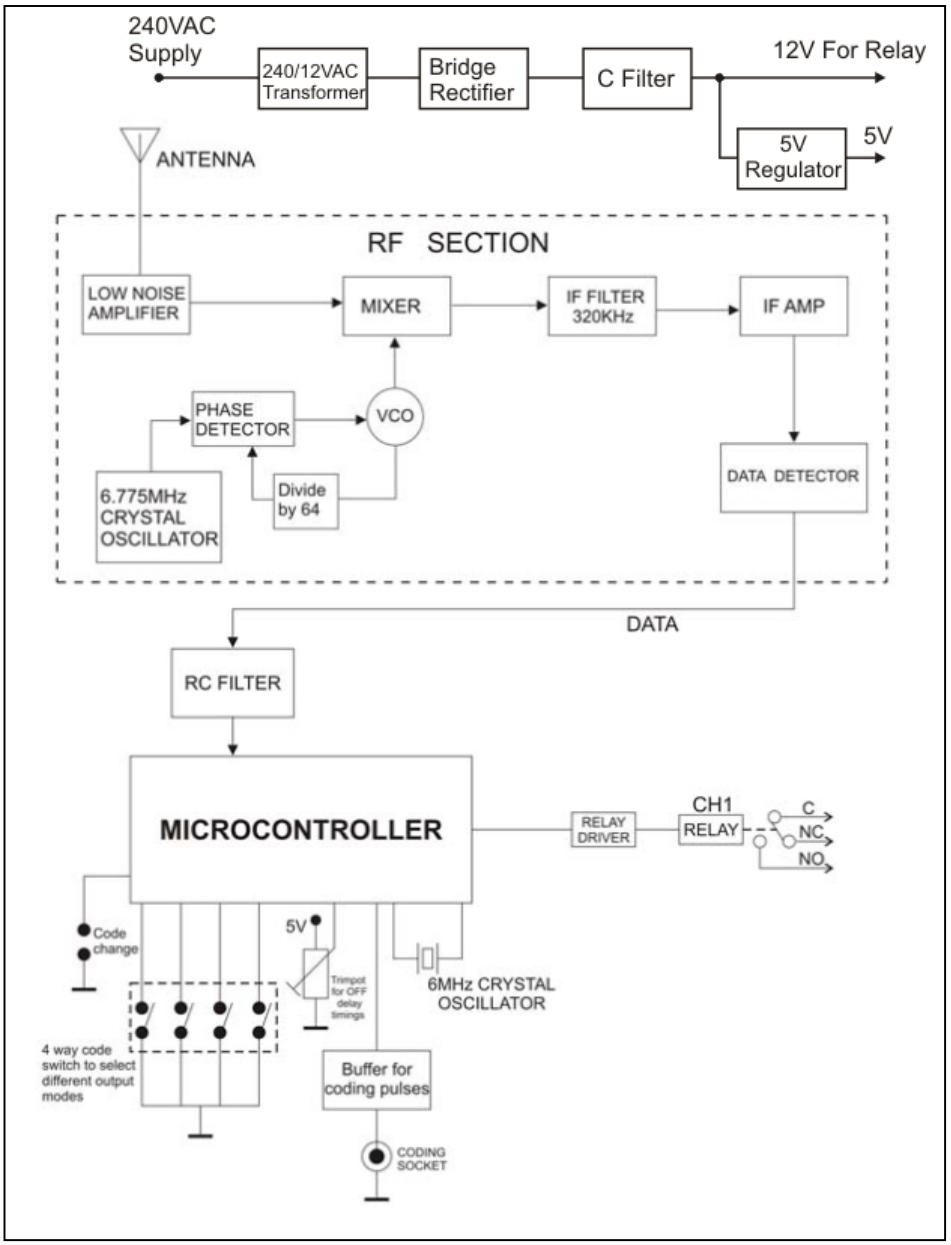
Supply Voltage	240Volts AC Mains (110-120VAC available on request)
Current Consumption	18mA, on 240V AC
Receiver Type	Single Conversion Superheterodyne
Receiving Freq	433.920MHz (Other frequencies available on request. Refer to the table below)
Type of Crystal	6.775MHz, Fundamental, 20pF, 30ppm
Operating Temperature Range	-5 to 50°C
IF Freq	320kHz
Selectivity	3dB at ±20kHz
Sensitivity	Better than 1.0uV (For output to switch on)
Type of Demodulation	Amplitude Shift Keying (ASK)
Decoding System	Microcontroller (32-bit word 4.29 x 10^9 codes)
Code Combinations	4,294,967,296
Outputs	Change over relay output, rated at 16 Amps of resistive load and up to 8 Amps of inductive load.
Connections	Supply, Antenna & Outputs - pluggable type terminal blocks
Antenna	Elsema's ANT433MHz series antennas or piece of approximately 690 mm long wire for short range applications.
Dimensions	130 x 70 x 37mm
Mounting hole size	3.97 mm or 5/32"
Weight	190g
Useable Transmitters	All Elsema Type 433MHz GLT-... series

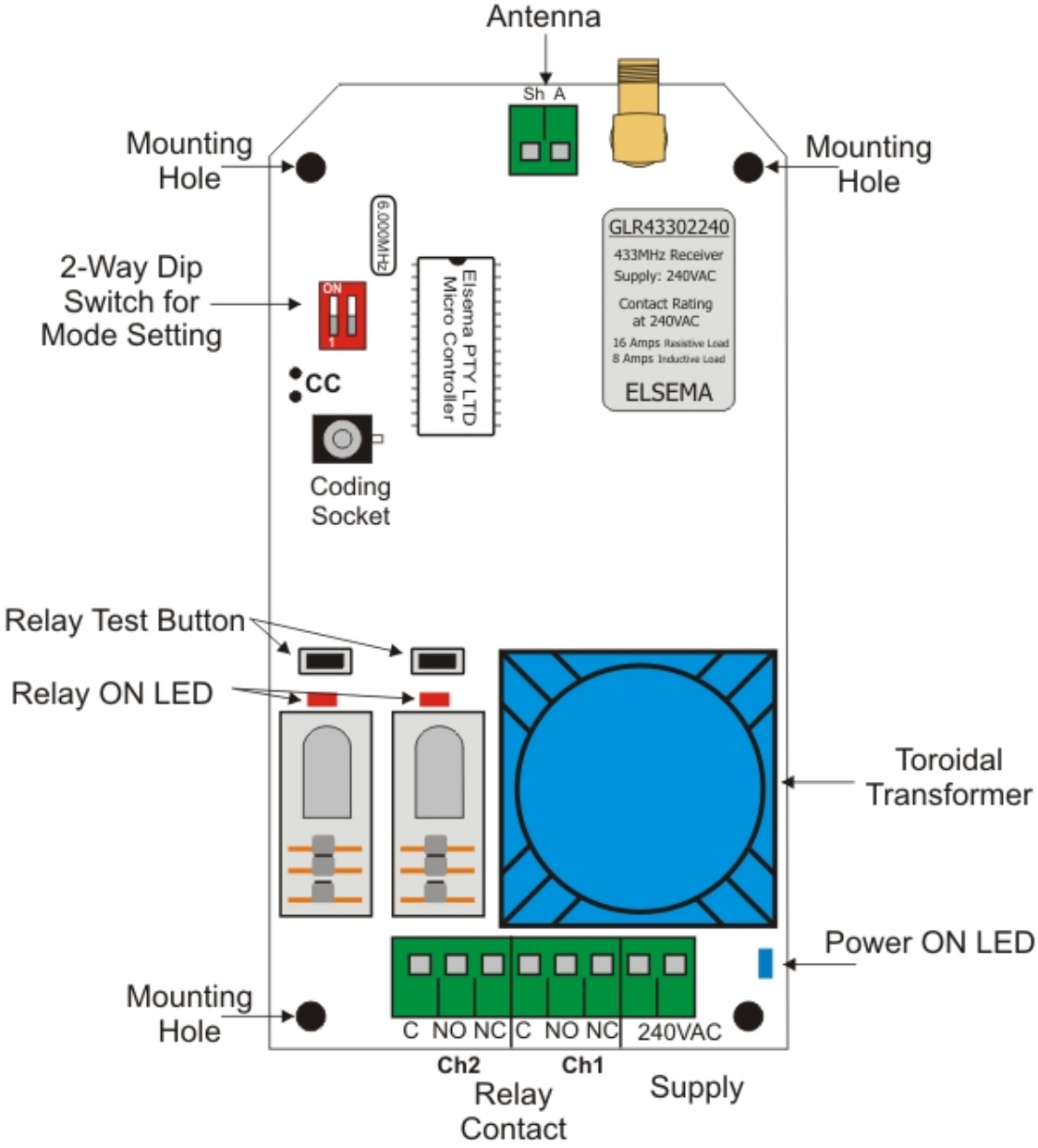
Available Frequencies

SF2	433.664 MHz
SF3	433.408 MHz
SF4	433.152 MHz
SF5	434.688MHz
SF6	434.432 MHz

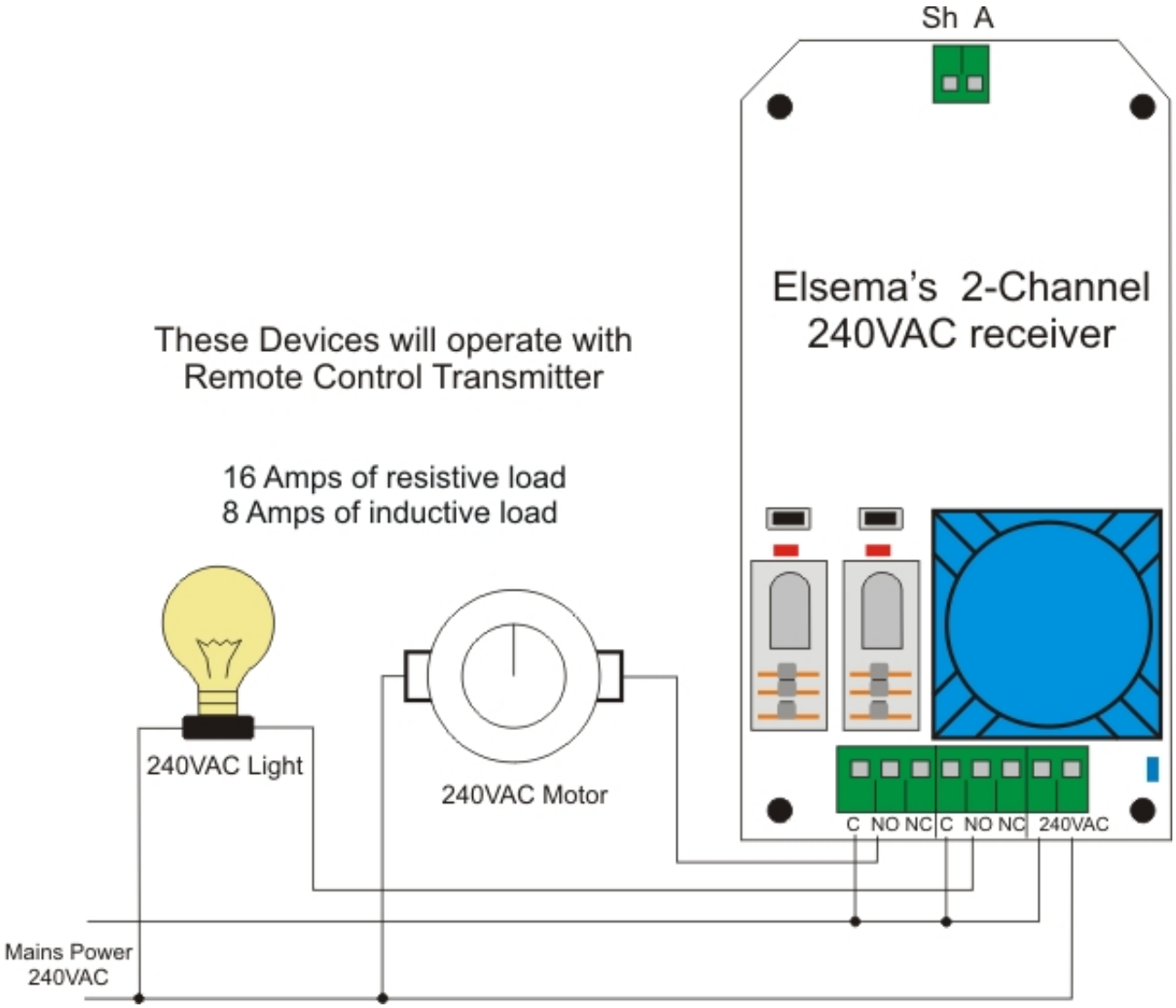
Special Frequency products can be made upon request. There is a minimum quantity order of 10. Please quote Correct SF number when ordering transmitters on special frequencies.

Block Diagram




Antenna
Sh A
Mounting Hole
Mounting Hole
6.000MHz
GLR43302240
433MHz Receiver
Supply: 240VAC
Contact Rating at 240VAC
16 Amps Resistive Load
8 Amps Inductive Load
ELSEMA
2-Way Dip Switch for Mode Setting
ON
Elsema PTY LTD Micro Controller
CC
Coding Socket
Relay Test Button
Relay ON LED
Toroidal Transformer
Power ON LED
Mounting Hole
C NO NC C NO NC 240VAC
Ch2
Ch1
Relay Contact
Supply

GLR4330240 Application



Manufactured by

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