

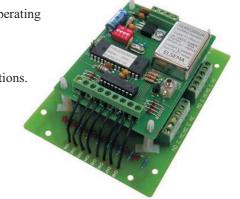
GLR4330812R, GLR4330824R 8-Channel 433MHz GigalinkTM Receiver with Relay Outputs

Features

- Wide supply connection 11.0 14.0 Volts AC/DC for GLR4330812R or 21.0 28.0 Volts AC/DC for GLR4330824R
- Highly sensitive receiver input stage. When used with GLT433...transmitt ers an operating range of 350 metres (980 ft) is possible.
- Eight relay outputs. All outputs can be operated simultaneously.
- Crystal controlled for high stability and performance.
- Uses micro-controller technology that can be re-programmed to suit unique applications.
- Momentary, flip-flop and latching output modes is user selectable.



- · Security systems.
- Timer controlled outputs.
- Simple on/off functions.



Description

The GIGALINKTM, GLR4330812R, GLR4330824R is the most advanced Remote Control technology available in the world today. GIGALINKTM is an invention that has revolutionised the entire Remote Control technology including Elsema's earlier version of FMT- ... and FMR- ... series.

The GLR43308 state-of-the-art invention brings a new dimension in the world of Remote Control technology in domestic, commercial and industrial applications.

The innovative microcontroller technology replaces the traditional dip switch coding which eliminates any possible code grabbing. Special features such as over four billion code combinations and ability to program any number of transmitters to a receiver adds up to the most advanced and secure Remote Control available.

Different Modes for each Output

Modes are user selectable from the 4-way dip switch, shown below. (Dipswitch 4 is reserved for specific customer mode. Normally not used.)

DIP Switch Mode Settings The output relay will respond in the following manner when receiving the correct signal from a transmitter				
1 2 3 on	"All Momentary": Relay on, only while correct signal is received			
	"All Flip-Flop": Outputs alternate at every correct incoming signal			
	"Momentary & Flip-Flop": Outputs 1-4 are momentary & 5-8 are flip-flop			
	"Latching on": Outputs will be on until supply to receiver is momentarily interrupted			



"Momentary & Flip-Flop": Outputs 1-6 are momentary & 7-8 are flip-flop
"Momentary & Flip-Flop": Outputs 1-2 are momentary & 3-8 are flip-flop
"Momentary & Flip-Flop": Outputs 1-3 are momentary & 4-8 are flip-flop
"Latching on": Output 1 is latching & 2-8 are momentary

AC/DC Supply and Antenna

AC/DC power supply and antenna is connected to the 3-way terminal block. The shield of the antenna coaxial cable should be connected to the minus (-) terminal block.

Do not connect the AC/DC supply to the 2.5-mm coding socket since connection may damage the microcontroller.

Channels

The eight channels are relay outputs using the ULN2803 Integrated Circuit. This IC is inserted to a socket that enables the user to easily change the output stage in case of a damaged output. The ULN2803 IC is available from Elsema. Simultaneous channel operation is possible with the same transmitter.

Code Programming

The microcontroller built-in code programming system automatically selects the programming mode that provides flexibility in programming each receiver channel to different transmitter channels. In programming mode the receiver sends a random code to program the transmitter channel(s). This is known as reverse programming.

Momentary joining the two CC pins on the receiver board sets all eight channels to a random code. To program the receiver to the transmitter channel(s) follow the steps outlined in the receiver instructions.

Applications

The GLR4330812R, GLR4330824R receiver's eight relay outputs can be set to eight different modes which allows it to be used in many diverse applications such as security, industrial machine monitoring, crane control, level monitoring, multiple 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.

Case

The GLR4330812R, GLR4330824R can be supplied without a case, this allows the receiver to be integrated according to your needs. The C160 case (weather proof) can be used to enclose the GLR4330812R, GLR4330824R receiver. The receiver with a case is known as a GLR4330812RE, GLR4330824RE.



Products in the Range

GLR43301 1-Channel	GLR43301240 1-Channel, 240V	GLR43302 2-Channel	GLR4330312 GLR4330324 3-Channel, 12 / 24V	GLR4330412 GLR4330424 4-Channel, 12 / 24V
GLR43308 8-Channel	GLR4330812 GLR4330824 8-Channel, 12 / 24V Relay Output	GLR43301SS 1-Channel, Solid State Output	GLR43302SS 2-Channel, Solid State Output	GLR433CS 1-Channel, Code Switch

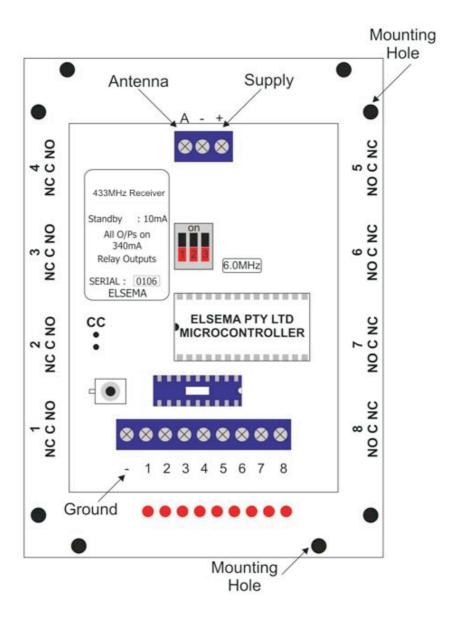


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GLR4330812R: 11.0 to 14 V AC/DC Absolute maximum DC 18 Volts GLR4330824R: 21.0 to 28 V AC/DC Absolute maximum DC 35 Volts Can use Elsema AC power pack (12PP or 24PP) Supply lines should be less than 3 metres long to comply with radio frequency authorities		
10mA standby, 340mA if all outputs "On"		
Single Conversion Superheterodyne		
Freq 433.920MHz (Other freq available on request)		
6.775MHz, Fundamental, 20pF, 30ppm		
-5 to 50°C		
320kHz		
3dB at ±20kHz		
Better than 1.0uV (For output to switch on)		
Amplitude Shift Keying (ASK)		
Microcontroller (32-bit word 4.29 x 10^9 codes)		
4,294,967,296		
Common (C) Normally Close (NC) and Normally Open (NO)		
Supply & Antenna: 3-way screw type terminal block. Screw type terminal block. (8 Relay Outputs)		
50 ohms, 433.920 MHz Antenna or piece of approximately 690 mm of wire. If coaxial cable is used connect the shield to the minus on the terminal (Gnd).		
130 x 94 x 42mm		
3.97 mm or 5/32"		
Length 120 mm Width 60 mm		
240g		
Can be re-programmed to suit your customised needs		
All Elsema Type 433MHz GLT series		
Up to 350 metres with proper 50 ohms, 433 MHz Antenna . Up to 200 metres with 690 mm long antenna wire. Antenna wire should be extended and away from metal. Ranges assume line-of-sight operation		



Block Diagram



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