

User's Manual

(Ethernet relay EREL114 v5.x)

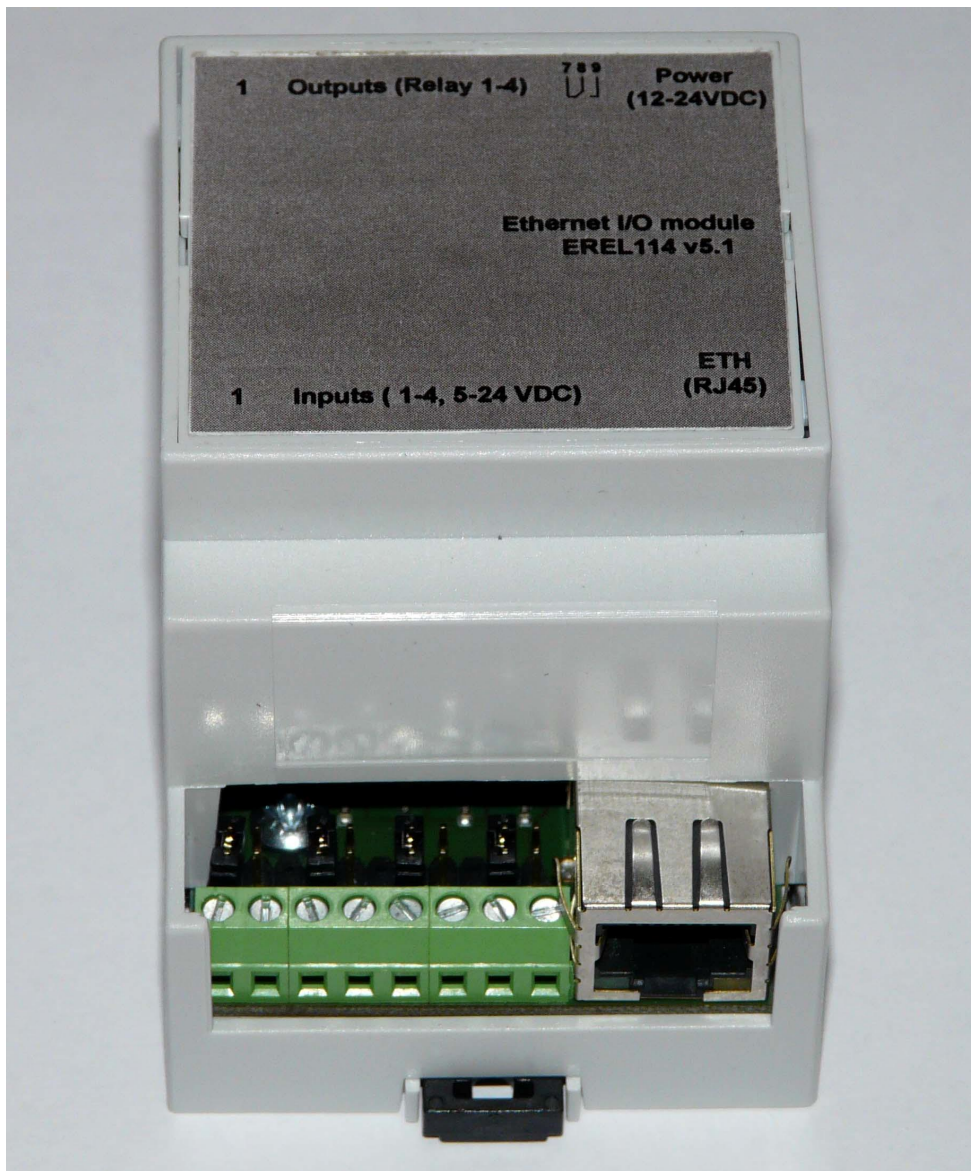


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1. Product Specifications

The EREL114 Ethernet I/O board is a low-cost solution for professional control and monitoring tasks. It is designed for easy integration in industrial machinery, office- or household devices, monitoring devices and etc.

EREL114 has

- 4 optically isolated AC inputs
- 4 cut-in contact relay outputs
- real-time clock (RTC)/calendar (option)
- 10/100 Mbps Ethernet interface
- default IP address switch (default IP address: 192.168.100.2 port 5000)

1.1 External Dimensions (with box)

Length: 90 mm

Width: 54 mm

Height: 60 mm

1.2 Interface

10/100 Mbps Ethernet interface

1.3 Power supply

The range of supply voltage: VDC 9-24V

1.4 Other

Four inputs:

Voltage levels of 5-24 VDC.

An input current of approx. 10mA

Four outputs:

Rating (resistive) 3A 120VAC or 3A 24VDC

Maximum Switching Power 360VA/90W

Maximum Switching Voltage 240VAC, 60VDC

Maximum Switching Current 5 A

Operating temperature: -30 °C to +70 °C

1.5 Software

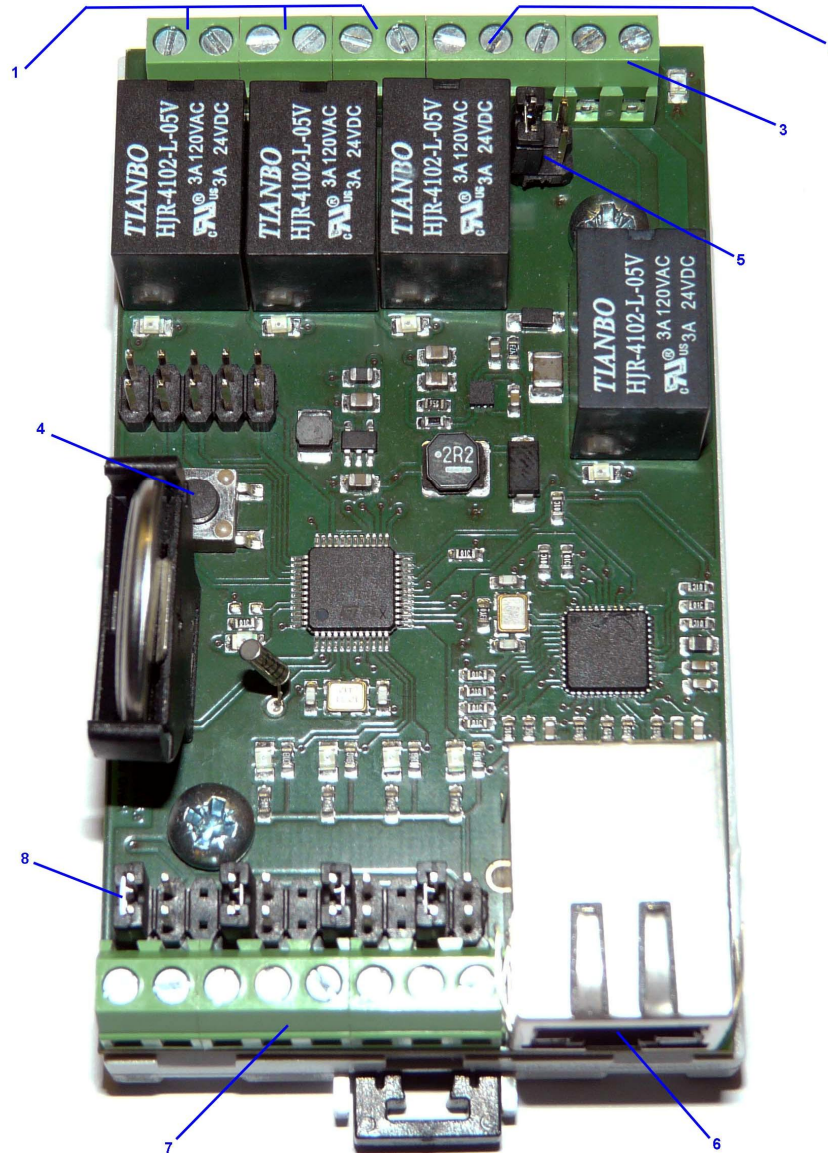
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EREL11XC SDK - Software Development Kit

EREL11xDemo – I/O board demo application

2. Hardware Installation

2.1 Connectors description



- 1 is output connectors for relays 1,2 and 3.
- 2 is output connectors for relay 4.
- 3 is power supply connector.
- 4 is default IP address button.
- 5 is jumper for 4th relay output.
- 6 is ethernet RJ45 connector.
- 7 is input connectors.
- 8 is jumpers for inputs.

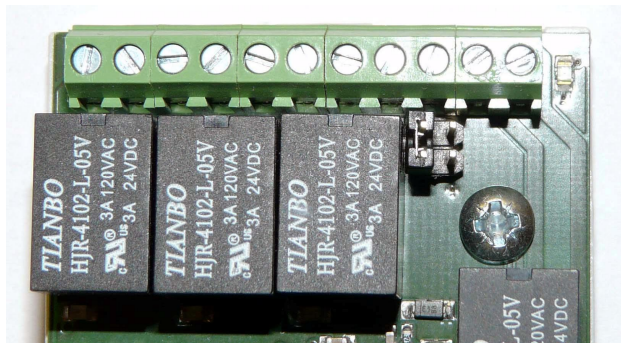
2.2 Internal jumper for 4th relay

The output of relay will be configured as

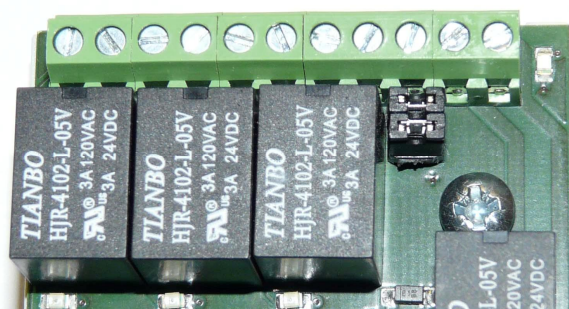
- cut-in relay (mode 1)
- commutation power supply contacts 3 to 2 (mode 2)

Black jumper is used to change the mode.

Mode 1



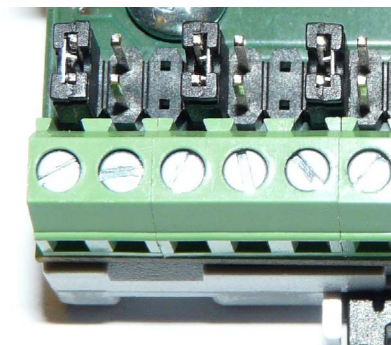
Mode 2



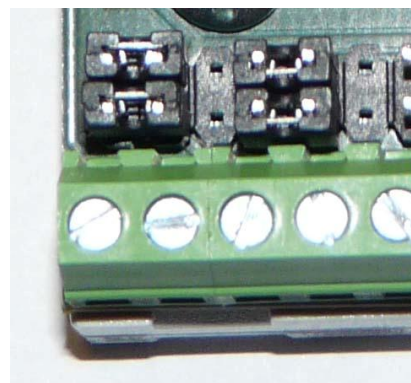
2.3 Internal jumper for inputs

The inputs are optically coupled type inputs, which assure a galvanic separation to connected devices. This separation represents an effective protection against damages by the use of over-voltage. According to model selection, inputs are designed for voltage levels of 5-24VDC.

In this configuration the input signal must have a voltage in the range of 5 up to 24VDC in order to detect this signal by device. The polarity of line is not important.



In this configuration the input signal has a voltage of power supply. In order to detect the signal by device will enough to close the circuit of input line.



2.4 Default IP address button

The Ethernet relay has a capability to change the IP address. The winconerel11x.exe utility allows change the specific parameters. If the IP address of EREL114 is forgotten, it's possible to use the default IP address by button. The default IP address is 192.168.100.2 port 5000

In order to get device with default IP address it's necessary to press button for 2-3 seconds.

