

ERELAY



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Producer: Engo Controls S.C. 43-262 Kobielice Rolna 4 St. Poland

Distributor: QL CONTROLS Sp z o. o. Sp. k. 43-262 Kobielice Rolna 4 St. Poland

www.engocontrols.com

Technical specifications

Power supply	230V AC 50Hz		
Max load	12A		
Communication	ZigBee 3.0 2,4GHz		
Output	COM / NO (Volt-free)		
Input	S1 (Volt free)		
Dimension [mm]	48 x 48 x 20		

Introduction

The product is designed for intelligent control devices that need to be controlled over voltage-free signal. The voltagefree output makes also possible to control devices which require 230V voltage. The size of the module allows to place it in a flushmounted installation box. It can be used as a boiler control relay for heating system ("normally open" output logic). It works according to programmed schedules or scenarios (e.g. work dependent on the actions of others system elements, such as a window/door opening sensor or temperature controller). EREL1ZB12A can be controlled remotely (via smartphone and Engo Smart/Tuya app) or locally using a bistable/monostable switch.

The relay is equipped with the ENGO binding function, to connect it wirelessly witch selected thermostats (e.g. EONE) in Online or Offline modes.

WARNING:

This product must be used together with a EGATEZB ZigBee gateway (purchased separately).

Product Compliance

This product complies with the following EU Directives: 2014/30/EU, 2014/35/EU, 2014/53/EU i 2011/65/EU.

Safety Information:

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Installation must be carried out by a qualified person in accordance with national and EU regulations.

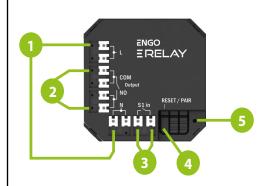
Installation:

Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for non-compliance with the instructions.

MARNING:

For the entire installation, there may be additional protection requirements, which the installer is responsible for.

Input/Output EREL1ZB12A



- 1. Power supply 230V AC
- 2. Volt free output
- 3. Volt free input
- 4. Function button
- 5. LED diode indicating the status of the module

LED diode indications

	EXPLANATION			
LED diode flashes quickly on red	The device is in pairing mode with the ZigBee network (when the device does not has been previously added to the ZigBee network, or after restoring factory settings)			
LED diode	The device is in binding mode			
flashes slowly	(when the device has been			
on red	previously added to			
• • • •	ZigBee network)			
LED diode lights	Relay of the module			
up green	has been turned ON			

Button functions

	EXPLANATION		
Press 1 time	Control of the modules relay (ON/OFF)		
Press quickly 5 times	Enables binding process (to link EMODZB with thermostat)		
Press and hold approx. 8 seconds until the LED will start flashing red	Relay reset (module will be removed from the ZigBee i network and automatically will go into pairing mode)		

Connection	descrip	tion		
a) Connection dia	gram for g	as boiler		
AC 230V L		CutzB12A	ZigE	
b) Connection dia	gram for li	ghting		
AC 230V L	ERE L COM- NO - NO 12A	Coutput Slin		bistable / monostable
c) Connection diag	jram for pu	mp/actuator		_
AC 230V L		L COM NO] ou	
Legend:			cts for	ON/OFF thermos
Boiler co				
Boiler co (according		er's instructions		Pump
Boiler co (according	to the boile ower supply	er's instructions		Pump Valve actuator

Installation thermostat in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

STEP 1 - DOWNLOAD **ENGO SMART** APP

Download the ENGO Smart app from Google Play or Apple App Store and install it on your smartphone.

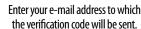


STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:









Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!!



the verification code will be sent.



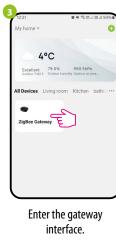
Then set the login password.

STEP 3 - CONNECT THE RELAY TO ZigBee network

After installing the application and creating an account, follow these steps:



Make sure ZigBee gateway has been added to the Engo Smart app.





Wait until the application finds the device and click "Done".



Make sure the relav is connected to the power supply. The LED should flash guickly on red. If not, hold down the button for about 8 seconds. The relay will enter pairing mode.



In "Zigbee devices list" go "Add devices".



The relay has been installed and displays the main interface.

BINDING thermostat with the module/relay

Make sure that the relay and thermostat are in the same ZigBee network (they are added to the same gateway EGATEZB).



To properly bind thermostat with the relay first click quickly the button on the device 5 times. The LED diode will start flashing slowly on red, which means the device will enable binding mode.



On the EONE thermostat, hold \blacktriangle and \bigtriangledown buttons until the "bind" message appears.



Release the keys, binding function (process of linking thermostat with control box) is active.



After successfull binding operation "End" message will be displayed. LED on the module will stop flashing.

12:00 **i**5

The "binding" process takes up

to 300 seconds.

Both devices have been successfully linked. Thermostat displays the main screen, icon " $((\mathbf{P}))$ " appeared on the screen indicating connection with the receiver.

ATTENTION:

If the binding process fails, it must be repeated taking into account the distances between devices, obstacles and local radio signal interferences.



Radio range can be increased by Engo ZigBee repeaters.

Factory reset

To reset the device, press and hold the function button for approx. 8 seconds until the LED flashes red. The relay will be removed from the ZigBee network and gateway, then goes into pairing mode. Now it's possible to add the relay again (see STEP 3 - CONNECT THE RELAY TO ZiaBee network).

