ENGO CONTROLS

ERELAY

ERM-12A | Relay Module 12A

Quick Guide

Ver. 5.1
Release date: VII 2024

Producer:
Engo Controls sp. z o.o. sp. k.
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Poland

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Technical specification

Power supply	230V AC 50Hz
Max. load	12A
Input	COM / NO volt free SL 230V AC
Output	NO/COM/NC
Dimensions [mm]	48x48x20

Introduction

ERM-12A is used for switching on/off electrical devices. Thanks to its small dimensions, it can be installed in an installation box or where there is a need to control a receiver with a maximum load of 12A.

Description of operation

The relay must be powered by 230 V AC. Relay control is done by applying voltage 230 V AC to the input contact SL or by shorting the COM / NO input contacts (VOLTAGE FREE INPUT). This will switch the contacts in the NO / COM / NC output circuit. The relay operation status is indicated by a blue LED. After 230 V AC voltage decay from the SL input or after opening the COM / NO volt free input, relay module will return to its original position.

Product features

- LED indicating operation status
- minimalistic design
- voltage-free output

Product Compliance

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

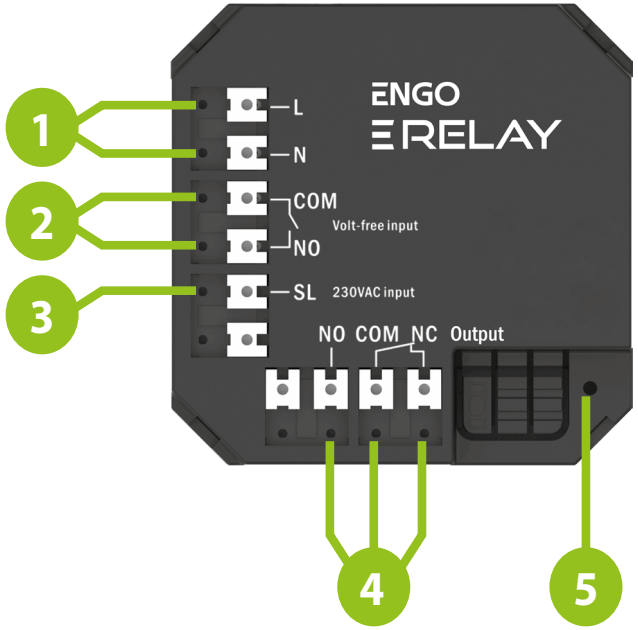
Installation

Installation must be carried out by a qualified person with the appropriate electrical authorization, in accordance with the standards and regulations of the country and the EU. The manufacturer will not be held responsible for any conduct not in accordance with the instructions.

WARNING:

There may be additional protection requirements for the entire installation, which the installer is responsible for maintaining.

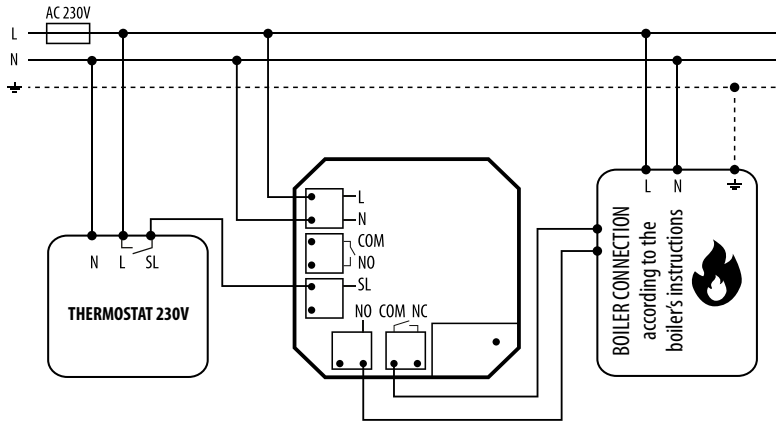
ERM-12A connection



1. ERM12A 230V AC power supply
2. Volt free input
3. 230V AC input
4. NO/COM/NC volt free output
5. Blue LED indication of the relay status

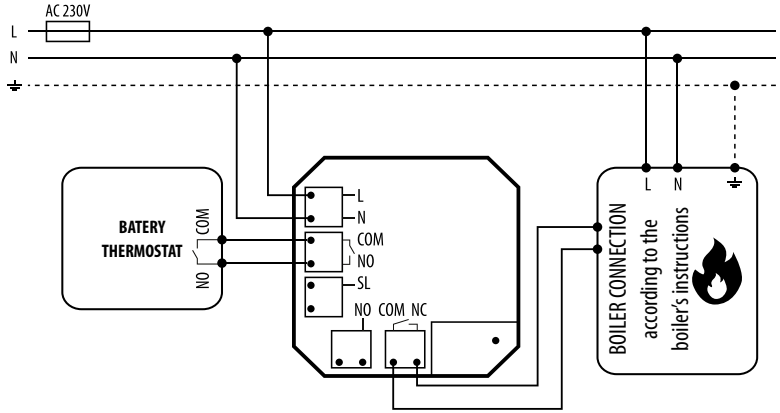
WIRING DIAGRAM No1

Connection of a 230 V AC voltage thermostat, to a boiler equipped with an ON / OFF voltage free input.



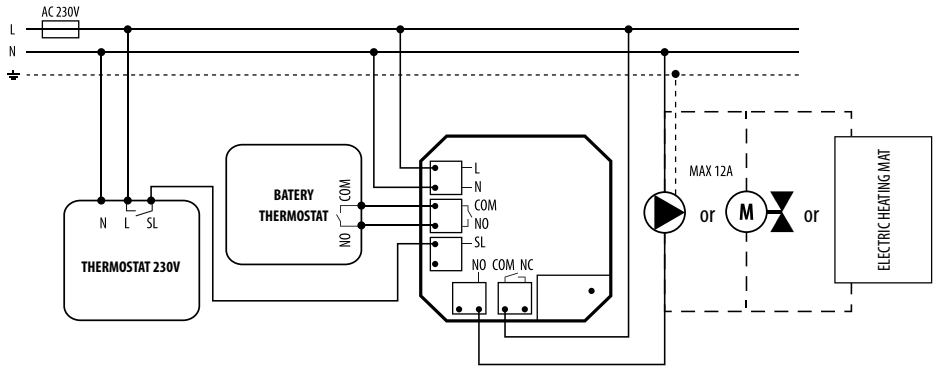
WIRING DIAGRAM No2

Connecting a battery thermostat with a COM / NO output (normally open contacts) to solid fuel boiler controller that requires a COM / NC (normally closed) contact.



WIRING DIAGRAM No3

Connecting a 230 V AC voltage thermostat or a battery thermostat with a COM / NO output to an electrical device which requires greater power than is allowed by the thermostat's built-in relay.
ATTENTION! The maximum power consumption of the electrical device must not exceed 12A.



WIRING DIAGRAMS No4

Connection of the wiring cetre's zone with more than 6 thermoelectric actuators or other devices than actuators (e.g. pumps, electric heating mats). Controlled device power load is focused on the relay rather than wiring centre's zone relay.
ATTENTION! The maximum power consumption of the electrical device must not exceed 12A.