

*Roger Access Control System*

**Installation guide for RM-2DR/RM-2DR-BRD  
relay module**

*Document version: Rev. B*



# 1. DESCRIPTION AND SPECIFICATION

The relay module is available in two versions: in enclosure dedicated to installation on DIN 35mm rail (RM-2DR) and as electronic module (RM-2DR-BRD). Both versions are functionally identical. The RM-2DR includes two relays with transistor type triggering circuit. The module is usually used to enable switching of greater power by means of 12VDC output line and/or for electrical separation between output line and load point (e.g. door lock, siren etc.). Practical example of RM-2DR application in RACS 4 system consists in on connection of RM-2DR input (e.g. IN1) with transistor output (e.g. IO1) of the controller. As a result, the controller can switch 230VAC/5A relay at RM-2DR by means of its transistor output (15VDC/1A). RM-2DR module can be used with all Roger controllers and the module is so universal that it can be also used with third party systems and devices.

Table 1.Specification		
Rated supply voltage	Nominal 12VDC, min./max. range 10-15VDC	
Current consumption	max 65mA	
Relay max load	230VAC/5A and also 30VDC/5A	
High trigger threshold	>5V	
Low trigger threshold	<4V	
Environmental conditions	-25C..+60C, humidity 10-95% (without condensation)	
Dimensions (H x W x D)	RM-2DR	85 x 62 x 73 mm
	RM-2DR-BRD	80 x 54 mm
Weight	RM-2DR	115g
	RM-2DR-BRD	50g
Certificates	CE	

## 2. INSTALLATION

### 2.1 Terminals and connection diagram

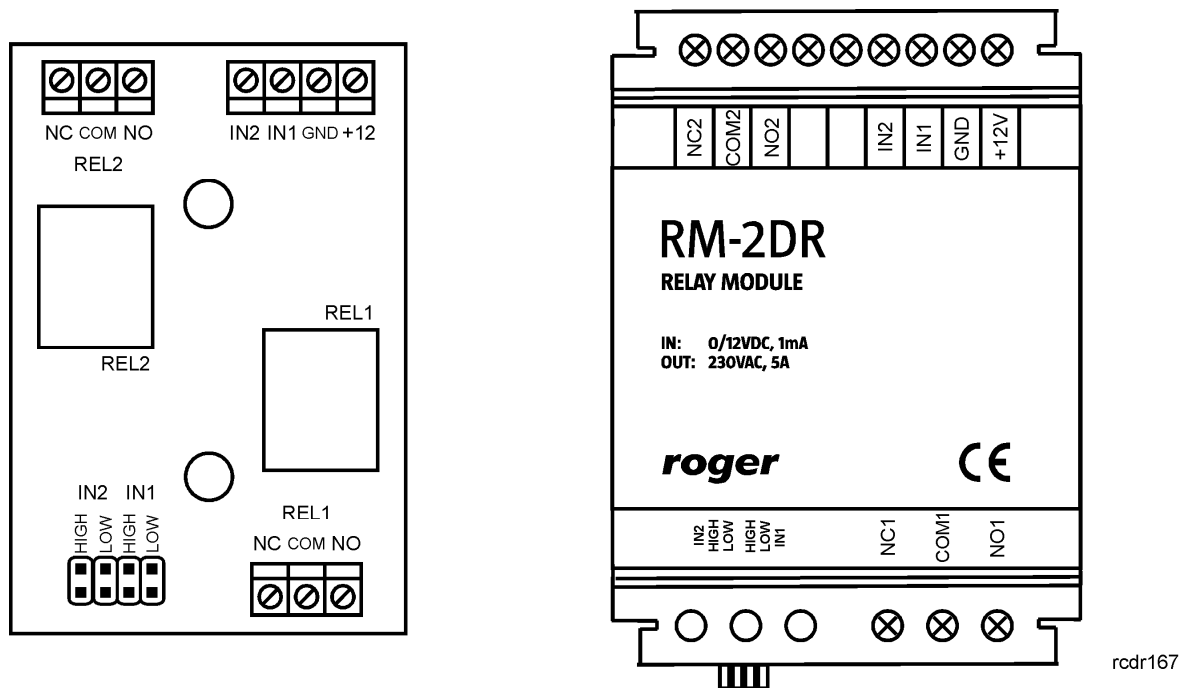


Fig. 1 RM-2DR-BRD (electronic module) and RM-2DR (DIN 35 mm rail enclosure)



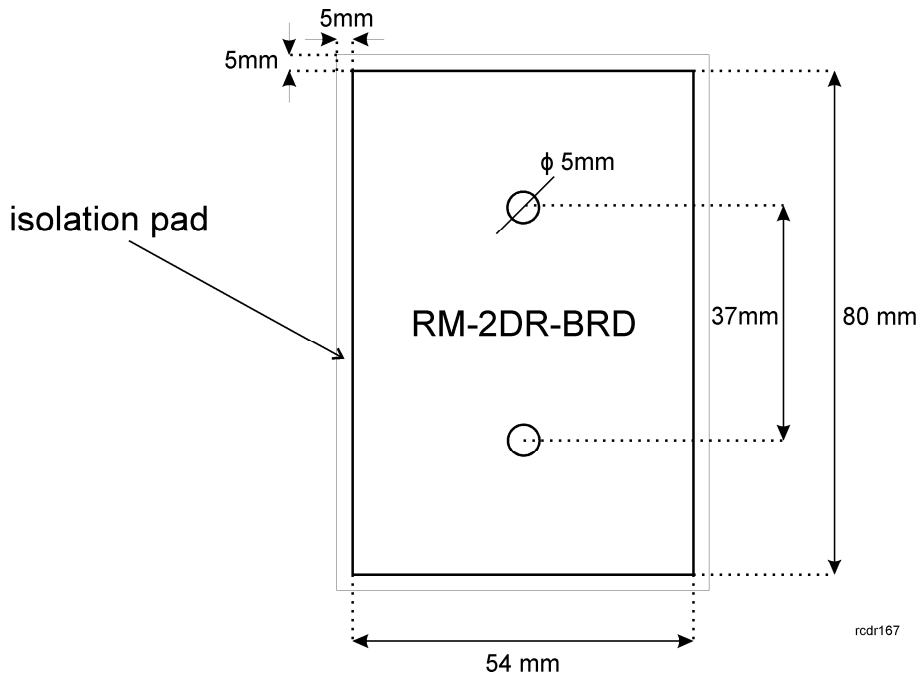


Fig. 3 The arrangement of installation holes in RM-2DR-BRD module

### 3. CONFIGURATION

Both versions of RM-2DR module are equipped with contacts and jumpers. They can be used to select triggering method for input lines of the module. The inputs can be triggered by high or low voltage. The arrangement of contacts is shown in fig. 4

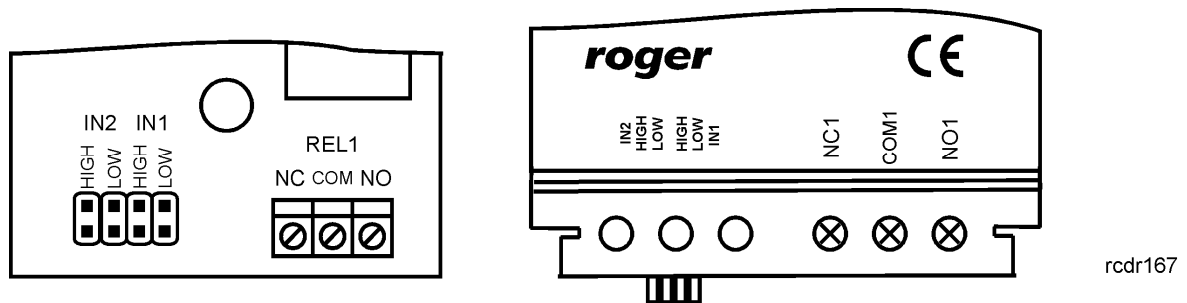
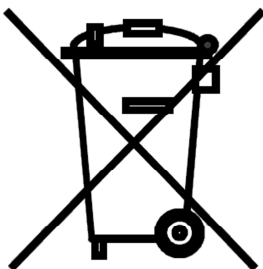



Fig. 4 The arrangement of contacts and jumpers

### 4. ORDERING INFORMATION

Table 3. Ordering information	
Product	Description
RM-2DR	Relay module in enclosure adapted to installation on DIN 35mm rail
RM-2DR-BRD	Electronic module of RM-2DR without any enclosure

 	<p>This symbol placed on a product or packaging indicates that the product should not be disposed of with other wastes as this may have a negative impact on the environment and health. The user is obliged to deliver equipment to the designated collection points of electric and electronic waste. For detailed information on recycling, contact your local authorities, waste disposal company or point of purchase. Separate collection and recycling of this type of waste contributes to the protection of the natural resources and is safe to health and the environment. Weight of the equipment is specified in the document.</p>
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