

# 4-CHANNEL RADIO MODULAR TRANSMITTER RNM-10

MANUAL INSTRUCTION



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**zameL**

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## DESCRIPTION

4-channel radio modular transmitter RNM-10 cooperates with wireless EXTA FREE system receivers. It is mounted on a TH-35 rail. The device has 4 independent inputs released by power supply voltage 230V~. Installation connectors, wired EXTA home automation devices or other relay devices (time programmers, motion sensors, programmable relays, etc.) can be connected to RNM-10 release terminals. RNM-10 application allows to integrate the above mentioned devices with EXTA FREE system receivers and allows for wireless control of these devices.

## FEATURES

- possibility of independent control of four receivers,
- easy installation and service,
- integration with wired home automation systems,
- cooperation with an unlimited number of EXTA FREE system receivers,
- energy-saving device, used to constant operation,
- connection possibility of antenna ANT-01 not mounted in a distribution board.



The device is designed for single-phase installation and must be installed in accordance with standards valid in a particular country. The device should be connected according to the details included in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions. In case of casing dismantling an electric shock may occur, and the guarantee is lost then. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to instal the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.

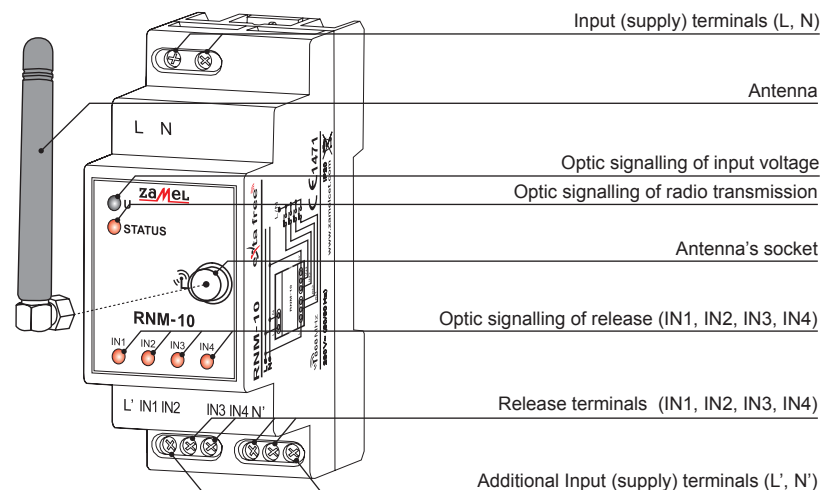


The symbol means selective collecting of electrical and electronic equipment. It is forbidden to put the used equipment together with other waste.

## TECHNICAL DATA

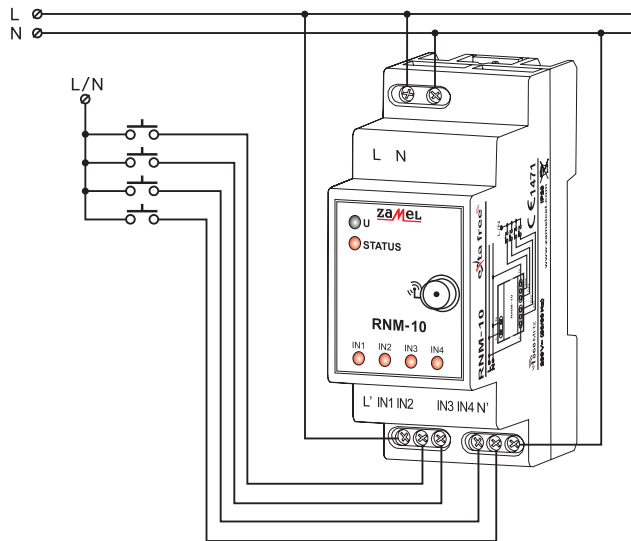
RNM-10	
Input (supply) terminals:	L, N, L', N'
Input rated voltage:	230 V AC
Input voltage tolerance:	-15 ÷ +10 %
Nominal frequency:	50 / 60 Hz
Nominal power consumption:	0,35 W
Optic signalling of power supply:	LED green diode
Release terminals:	IN1, IN2, IN3, IN4
Number of channels:	4
Transmission:	radio 868,32 MHz
Coding way:	unidirectional
Coding:	addressing transmission
Range:	up to 300 m in the open area
Optic signalling of transmission:	LED red diode
Optic signalling of input status:	4 x LED red diode
Ambient temperature range:	-10 ÷ +55 °C
Section of connecting cables:	up to 2,5 mm <sup>2</sup>
Operating position:	free
Casing mounting:	TH-35 rail (according to EN 60715)
Casing protection degree:	IP20 (EN 60529)
Protection level:	II
Overvoltage category:	II
Pollution degree:	2
Surge voltage:	1 kV (EN 61000-4-5)
Dimensions:	doublemodular casing (35 mm) 90 x 35 x 66 mm
Weight:	0,087 kg
Reference standard:	ETSI EN 300 220-1, ETSI EN 300 220-2, EN 60950, EN 61000

## APPEARANCE



CE 1471

## CONNECTION



**CAUTION: power supply must be connected to L i N' terminals**

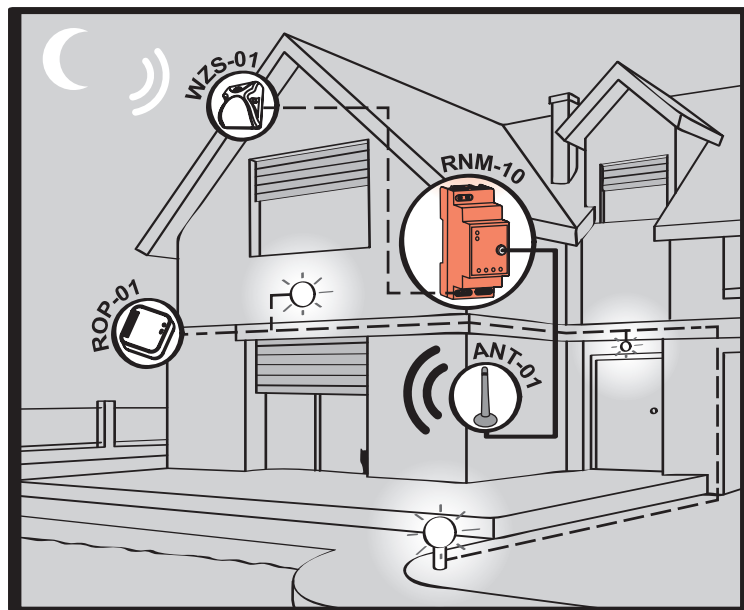
## FUNCTIONING, MOUNTING

1. Disconnect power supply by the phase fuse, the circuit-breaker or the switch-disconnector combined to the proper circuit.
2. Check if there is no voltage on connection cables by means of a special measure equipment.
3. Connect the cables with the terminals in accordance with the installing diagram.
4. Mount RNM-10 device on a TH-35 rail.
5. Switch on the power supply from the mains.

The device is ready to operate after proper mounting and installation. Device release by a unipolar push-button connected to one out of four release push-buttons (IN1-IN4) causes the RNM-10 device to send a control signal which refers to this output (channel). LED red diodes IN1 - IN4 inform which channel was released and the STATUS diode informs about transmission in progress.

**Device programming procedure (adding a transmitter to a receiver's memory) is described in particular receivers' manual instruction of EXTA FREE system.**

## APPLICATION



4-channel radio modular transmitter RNM-10 can control any EXTA FREE receiver. In this application RNM-10 is released by a signal from WZS-01 twilight switch, it sends a control signal to ROP-01 receiver, which switches on external lighting.



The ZAMEL company devices which are characterised with this sign can cooperate with each other.

## OPERATING RANGE

Receiver	RNM-10
ROP-01	230 m
ROP-02	250 m
ROB-01	250 m
SRP-02	250 m
SRP-03	250 m
RWG-01	300 m
RWL-01	200 m
ROM-01	300 m
ROM-10	300 m
RDP-01	230 m
RTN-01	300 m

**CAUTION: The given range concerns open area - an ideal condition without any natural or artificial obstacles. If there are some obstacles between a transmitter and a receiver, it is advisable to decrease the range according to:**

wood and plaster:	from 5 to 20 %
bricks:	from 10 to 40 %
reinforced concrete:	from 40 to 80 %
metal:	from 90 to 100%
glass:	from 10 to 20 %

**Over- and underground medium and high electrical power lines, radio and television transmitters, GSM transmitters set close to a device system have also a negative influence on the range.**

## WARRANTY CARD

There is 24 months guarantee on the product

1. ZAMEL provides a two-year warranty for its products.
2. The ZAMEL warranty does not cover: a) mechanical defects resulting from transport, loading / unloading or other circumstances b) defects resulting from incorrect installation or operation of ZAMEL products; c) defects resulting from any changes made by CUSTOMERS or third parties, to products sold or equipment necessary for the correct operation of products sold; d) defects resulting from force majeure or other aleatory events for which ZAMEL is not liable; e) power supply (batteries) to be equipped with a device in the moment of sale (if they appear);
3. All complaints in relation to the warranty must be provided by the CUSTOMER in writing to the retailer after discovering a defect.;
4. ZAMEL will review complaints in accordance with existing regulations.;
5. The way a complaint is settled, e.g. replacement of the product, repair or refund, is left to the discretion of ZAMEL.
6. Guarantee does not exclude, does not limit, nor does it suspend the rights of the PURCHASER resulting from the discrepancy between the goods and the contract.

Salesman stamp and signature, date of sale