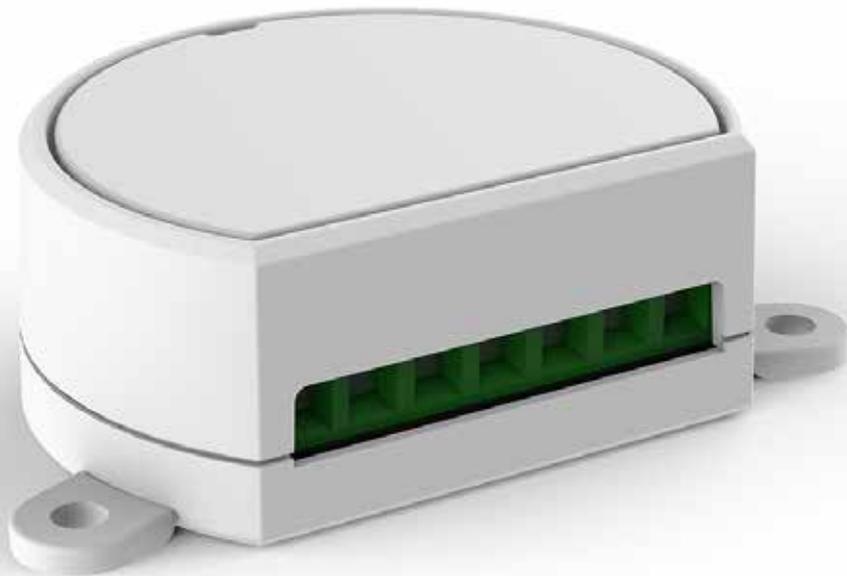


# MCU-RR

*Radio repeater to increase the signal range. Integrated radio transceiver 433.92 MHz.  
Switching power supply 110-240 VAC.*

NEXTA  
T E C H



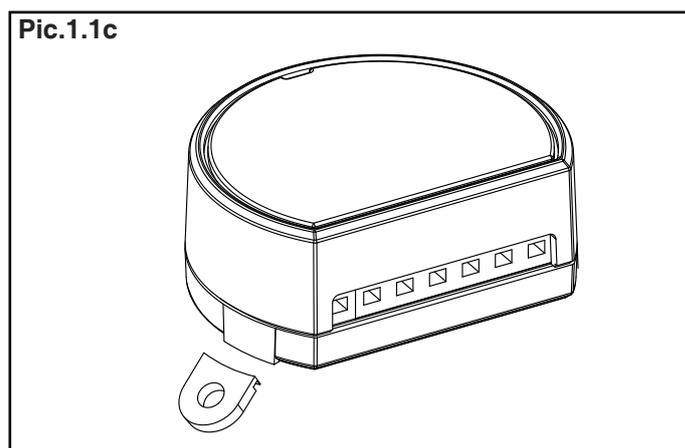
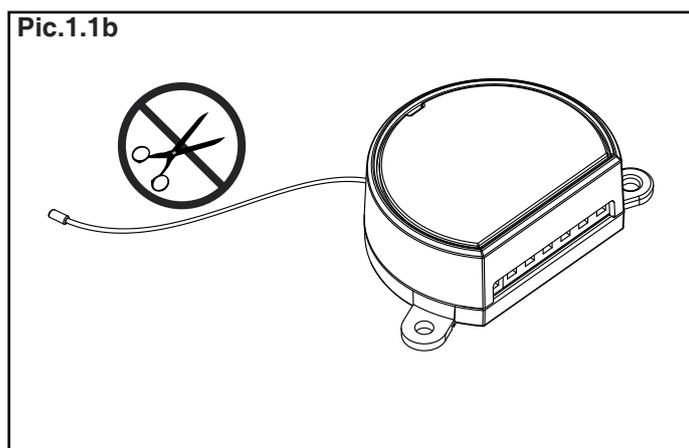
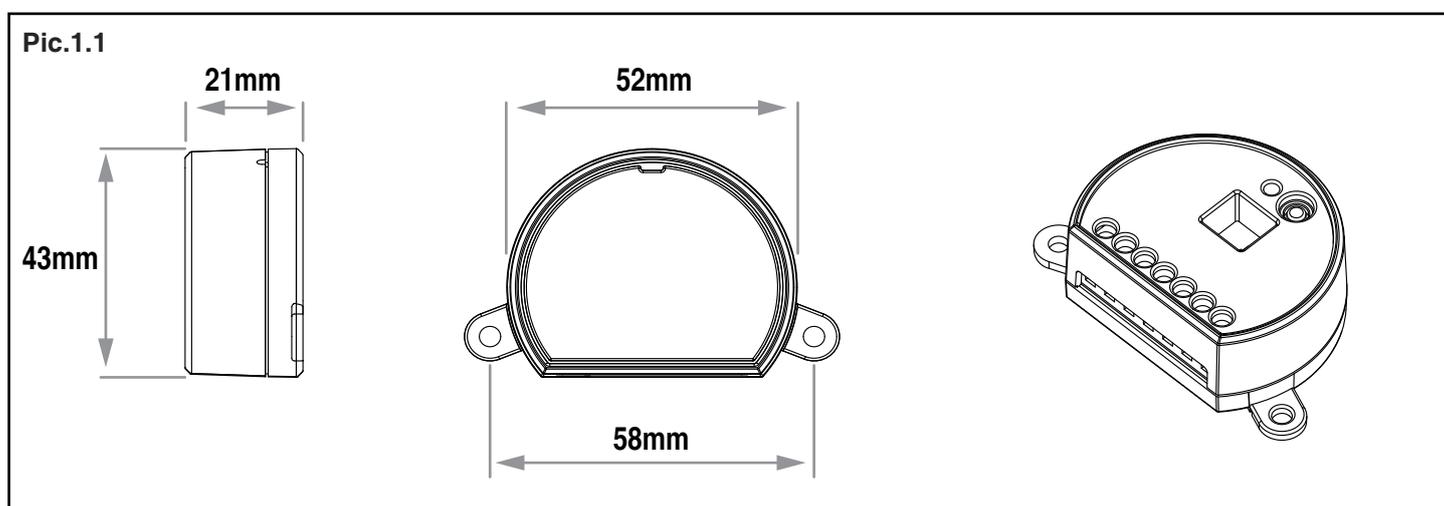
# WARNINGS

- Installation must be carried out only by qualified technicians in compliance with the electrical and safety standards in force.
- All connections must be made with the power turned off.
- Use suitable cables.
- Do not cut through the aerial (see picture 1.1b)
- A suitably sized disconnection device must be set up on the electric power line that supplies the product.
- Disposal of waste materials must fully respect local standards.

## 1 PRODUCT FEATURES

### 1.1 TECHNICAL DATA

Power supply	From the grid 120-240 Vac
Radio frequency	433,92MHz
Range	120 m in free field
Protection rating	IP20
Operating temperature	-20 +55 °C
Dimensions	52X43X21



### 1.2 DESCRIPTION

Radio repeater to increase the signal range, ideal for controlling far-off devices or those positioned on a different floor from the control unit.

The innovative software avoids the undesirable reception of “double commands” when the device receives commands both from the remote control and the repeater.

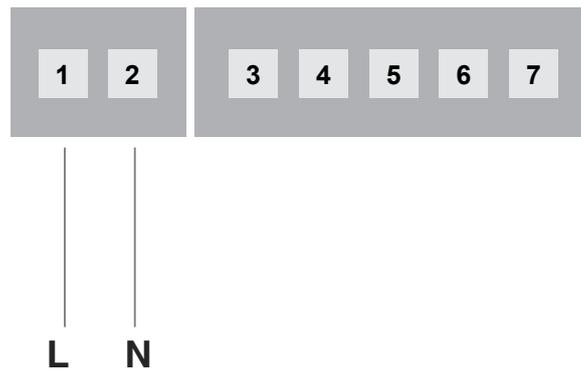
The ISM (industrial, scientific and medical) radio frequency band guarantees a long range, even through walls and ceilings.

Simple programming with dip-switches, reduced dimensions with breakable tabs (pic. 1.1c) for fixing with screws (pic. 1.2a) or for insertion into connection boxes up to 55 mm in diameter.

## 2 ELECTRICAL CONNECTIONS

### 2.1 CONNECTION DIAGRAM

Pic.2.1



## 3 USE OF THE CONTROL UNIT

This control unit is conceived to be used in combination with a wireless system composed of a transmitter and a receiver (already connected to each other).

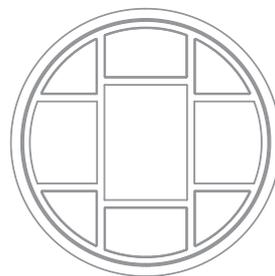
Its aim is to receive the "original" signal of the transmitter and to amplify it towards the receiver, in order to intensify the default range of the transmitter.

To obtain a good quality of the signal, see an example of installation in Pic.3, showing a receiver and a transmitter. The repeater needs to be placed within the limit of the wireless range of the receiver.

BEFORE

Pic.3

Original range →



TRANSMITTER



RECEIVER

AFTER

Original range → Repeated signal →



TRANSMITTER



REPEATER



RECEIVER

Place the repeater within the limit of the wireless range of the receiver

# 4 CONTROL UNIT SETTING

## 4.1 SETTING THE SERIAL NUMBER OF THE REPEATER

In a system there are more repeater (max 7), is necessary to set a different serial number. This serial number creat a delay in the repetition of the signal. This guarantee more efficacy.

ATTENTION: The higher the serial number, more is the delay from “the main command”, and the action. Reccomended to use the first free serial number (first repeater= serial 1, second repeater= serial 2 eccetera)

Tab. 4.1a

SETTING THE SERIAL NUMBER		
DIP POSITION	REPEATER SERIAL NUMBER	DELAY OF THE SIGNAL
 ON OFF OFF OFF	REPEATER N°1	Delay 1
 OFF ON OFF OFF	REPEATER N°2	Delay 2
 OFF OFF ON OFF	REPEATER N°3	Delay 3
 OFF OFF OFF ON	REPEATER N°4	Delay 4
 ON OFF OFF ON	REPEATER N°5	Delay 5
 OFF ON OFF ON	REPEATER N°6	Delay 6
 OFF OFF ON ON	REPEATER N°7	Delay 7



MNLMCU-RENV1.1

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