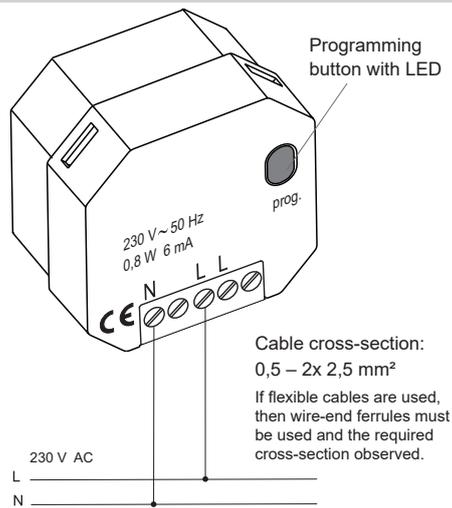


Model



RXJ03E5001B01

Technical data

| | |
|------------------------|--|
| Frequency: | 868.3 MHz |
| Radiated power: | 1.26 mW |
| Modulation: | FSK |
| Coding: | Easywave ABCD EasywavePlus EasywaveDaten |
| Power supply: | 230 V AC |
| Power consumption: | 0.5 W standby |
| Current consumption: | |
| Receive | 3.2 mA |
| Transmit | 4.7 mA |
| Transmission delay: | 270 ms |
| Range: | open field: approx. 150 m buildings: approx. 30 m |
| Operating temperature: | -20 °C to +60 °C |
| Dimensions (w/l/h): | 48/48/25 mm |
| Weight: | 40 g |

Scope of delivery

Junction box repeater RXJ03, operating instructions

Intended use

The unit may only be used as a radio repeater for Easywave radio telegrams.

The manufacturer shall not be liable for any damage caused by improper or non-intended use!

Safety advice



Carefully read through these instructions before connecting and operating the radio repeater!

Electrical installation must only be performed by a qualified electrician; otherwise there is a risk of fire or electric shock.

The electrical connection cable must be made voltage-free prior to installation or maintenance. A suitable, easily accessible isolation device (such as an automatic circuit breaker) must be present in the power supply circuit to the flush-mounted receiver.

The device may only be operated in a flush-mounted box that has a cover.

Observe the applicable laws, standards and regulations, as well as the operating instructions of the radio transmitters that the repeater will receive from!

Have faulty radio repeaters checked by the manufacturer!

Do not make any unauthorised alterations or modifications to the radio repeater!

Function

The RXJ03 flush-mounted repeater receives all Easywave telegram types, and repeats them in transparent mode or cascade mode. This effectively increases the radio range of Easywave transmitters.

32 transmission codes can be programmed into the repeater.

Up to 10 consecutive telegrams can be received, and then forwarded in the same sequence.

TRANSPARENT MODE

If there is no Easywave transmission code programmed into the repeater, each received Easywave telegram is repeated with a delay of 270 ms. When a telegram is received, the LED will flash briefly. When a telegram is sent, the LED will be illuminated for the duration of the transmission process.

Once a transmission code has been programmed into the repeater, transparent mode will no longer be available. In order to re-enable use of this mode, each transmission code must be manually deleted, or a RESET must be performed.

Telegrams from other repeaters (transparent or cascade mode) are NOT forwarded in transparent mode!

CASCADE MODE (Figure 1)

If several repeaters are required to build a transmission path, they must be operated in multiple levels in cascade mode, to prevent "build-up" in the system. For this purpose, the transmission codes of the Easywave transmitters used must be programmed into the repeaters at different levels. (see "Programming transmitters", page 2)

Level structure: Transmission codes emitted by repeaters are only forwarded (repeated) to repeaters that are in the next level up. This prevents transmission codes being constantly sent back and forth between repeaters, and the transmission path being blocked.

Transmitters should therefore be programmed in such a way that the transmitter is programmed at level 1 in the repeater furthest away from the receiver.

This repeater's repeated telegrams are then only accepted by repeaters at level 2, with the result that telegrams in the "middle" repeater must always be programmed at level 2.

The last repeater is then fitted within the reception range of the receiver, and the transmission code is programmed into level 3 here. This repeater only accepts telegrams from repeaters in level 2.

Transmitter behaviour: "Normal" transmitters' transmission codes are accepted by repeaters in each level, and forwarded based on the programmed level. This ensures that receivers can be switched from any position as required, using programmed transmitters.

Receiver behaviour: Repeater telegrams, regardless of which level they are programmed into, are always accepted by Easywave receivers. This means that it is not always necessary to use all three available repeater levels.

However, depending on the use in each case, it must be ensured that only a repeater at the last level in use is within range of the receiver.

Repeater in transparent mode: Telegrams from repeaters in transparent mode are accepted by repeaters in cascade mode at level 1, as would be expected with a conventional Easywave transmitter.

Therefore, one (!) repeater can alternatively be used as "level 0" if the 3 regular levels are insufficient in cascade mode.

Repeaters in which the relevant telegram is programmed at level 2 or 3 reject all telegrams from a repeater in transparent mode.

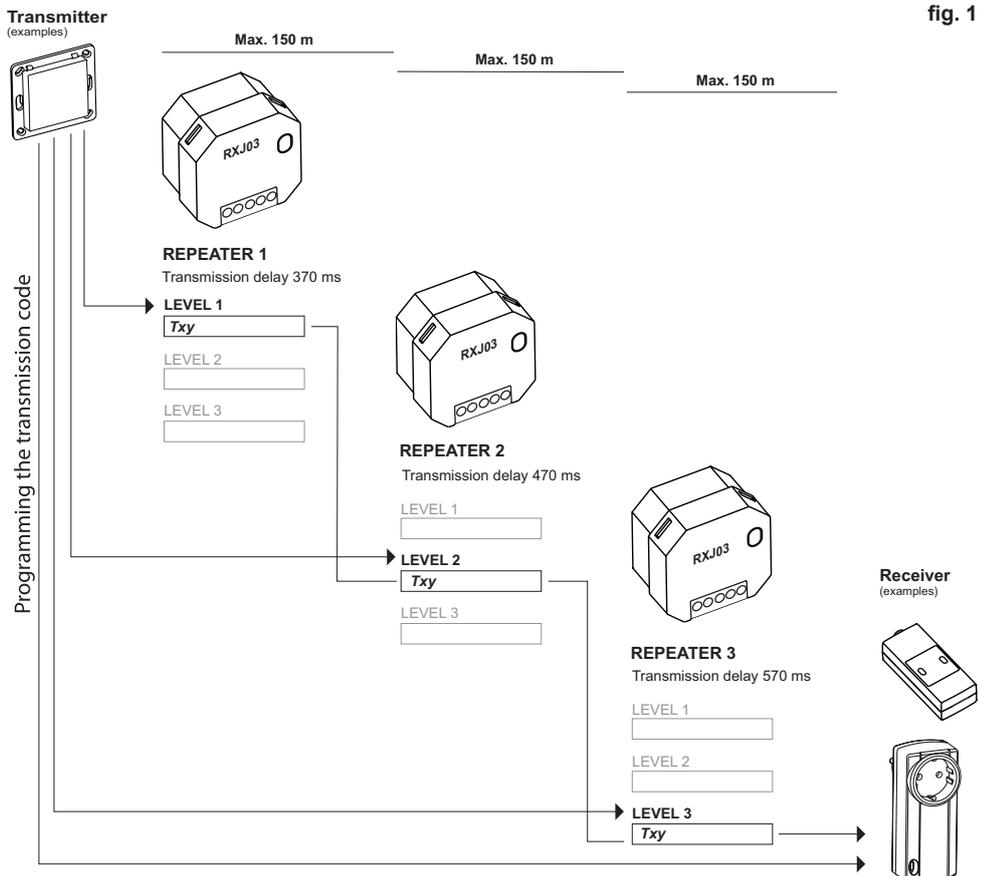


fig. 1

Start-up

1. The repeater must only be installed in commercially available flush-mounted boxes with covers.
2. Disconnect the power circuit and connect the power supply.
3. Switch on the supply voltage again.

Caution! Observe the applicable electrical regulations!

After start-up, the radio repeater is ready for operation.



Caution! Make sure there is no interference with the wireless connection. Do not mount the device in a distribution box, in metal casings, or in direct proximity to close metal objects on the floor or nearby.

Programming the transmission code

If transmitters with 2- or 3-button operation are used, generally only the code for one button needs be transmitted. The code for the associated buttons is assigned automatically.

Program transmitter in level 1

1. Press the programming button **once** (< 1.6 seconds).

The LED blinks on and off.

2. Press a button on your transmitter.
3. The transmitter has been successfully programmed. The LED goes out.

Program transmitter in level 2

1. Press the programming button **twice briefly** (< 1.6 seconds).

The LED flashes in a 2-blink pattern.

2. Press a button on your transmitter.
3. The transmitter has been successfully programmed. The LED goes out.

Program transmitter in level 3

1. Press the programming button **three times briefly** (< 1.6 seconds).

The LED flashes in a 3-blink pattern.

2. Press a button on your transmitter.
3. The transmitter has been successfully programmed. The LED goes out.

If the transmission code has been saved, the LED lights up for around 2 seconds and the repeater switches to ready mode.

A transmitter can only be programmed at one level. If a programmed transmission code is programmed at another level, the transmitter will be assigned to the new level.

Deleting specific transmitter codes

1. Press and hold the programming button (>1.6 seconds) until the LED flashes quickly.
2. Press one button on your transmitter. If the transmission code has been deleted, the LED will light up for around 2 seconds and the repeater switches to ready mode.

Deleting all transmission codes (Reset)

1. Press and hold the programming button (>1.6 seconds) until the LED flashes quickly.
2. Press and hold the programming button (>1.6 seconds) until the LED has been illuminated for 4 seconds. This will delete all transmission codes programmed in the levels. The repeater switches to ready mode. Transparent mode is active again.

Note: All programming and deletion processes can be cancelled by briefly pressing the programming button or by waiting for around 30 seconds until the receiver switches to ready mode.

Troubleshooting

- 1-button operating modes switch twice, or, after switching on, switch OFF again immediately: there is an overreach, and 2 or more telegrams are reaching the receiver. This could be 2 repeaters or 1 transmitter and 1 repeater. Ensure that only 1 transmitter or repeater is within range of the receiver, or use a 2-button operating mode.
- Individual telegrams are not repeated: check whether the repeater is in transparent mode. Activate transparent mode by performing a RESET, or program the telegram into the repeater. Check that the telegram has been programmed at the right levels of the repeaters in use.
- There is just one short pulse on the receiver when in deadman operating mode: the duration of the telegrams is not being evaluated by the repeaters. "Deadman" operating mode can only be used as a "pulse" to a limited extent.

General information

Disposal

Waste electrical products not be disposed of with household waste!

Dispose of the waste product via a collection point for electronic scrap or via your specialist dealer.



Put the packaging material into the recycling bins for cardboard, paper and plastics.



Warranty

Within the statutory warranty period we undertake to rectify, free of charge, by repair or replacement, any product defects arising from material or production faults.

Any unauthorised tampering or modifications shall render this warranty null and void.

Conformity



ELDAT GmbH hereby declares that the radio equipment type RXJ03 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.eldat.de

Service

If, despite correct handling, faults or malfunctions occur or if the product has been damaged, please contact your retailer or the manufacturer.

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