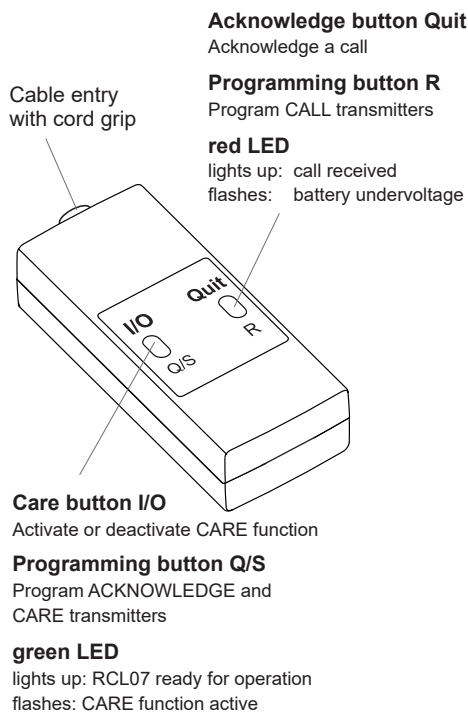


## Model



<b>RCL07E5002B30</b>	868.30 MHz
<b>RCL07E6002B30</b>	916.50 MHz

## Technical details

Frequency:	868.30 MHz
Modulation:	FSK
Coding:	Easywave
Power supply:	12-24 VAC 12-32 VDC
Max. current consumption:	10 mA / 45 mA Load*)
Output:	2 potential-free relay contacts (1 CO and 1 NO)
Max. contact rating <b>AC</b> (Ω)	
max. switching voltage:	120 VAC
max. switching current:	1 A
max. switching power:	62 W
Max. contact rating <b>DC</b>	
max. switching voltage:	50 VDC
max. switching current:	1 A
max. switching power:	30 W
Operating temperature:	-20 °C to +60 °C
Degree of protection:	IP54
Dimensions (w/l/h):	35/80/20 mm
Weight:	38.0 g
Connecting cable:	Ø5 mm

\*) Both relays are switched.

## Scope of delivery

Call receiver RCL07, operating instructions

## Intended use

The device may only be operated with safety extra low voltage (SELV) and may only be used as a radio control for switching devices with safety extra low voltage (SELV). All information on the maximum contact load refers to resistive loads. If an inductive load (e.g. motor) is connected, the maximum contact load is reduced depending on  $\cos \phi$ . The manufacturer shall not be liable for any damage caused by improper or non-intended use.

## Safety advice



Before using the device, carefully read through the operating instructions!

- Observe the permissible supply voltage and the maximum contact load of the switching outputs! The specified maximum values for switching voltage, switching current and switching power must not be exceeded!
- Have faulty radio controls checked by the manufacturer!
- Do not make any unauthorized alterations or modifications to the receiver!

## Functions

The RCL07 call receiver has two channels. Channel 1 (CH1) is used for signalling incoming calls. If the RCL07 receives an undervoltage telegram, channel 2 (CH2) switches for one second.

The following applications can be realized with this:

## CALL Function

When the RCL07 receives the telegram from a CALL transmitter, channel 1 (CH1) switches according to the operating mode selected.

A maximum of 32 transmission codes for CALL transmitters can be programmed. Programming is carried out using the programming button **R** (see page 2).

During programming, the operating mode currently set on jumper **J2** is assigned to a transmitter:

**PULSE** J2 Pos. 4   
(1-button operation)

If a transmitter button **A/B/C/D** is pressed, the relay **CH1** switches for one second.

**ON** J2 Pos. 3+4   
(1-button operation)

If a transmitter button **A/B/C/D** is pressed, the relay **CH1** switches permanently **ON**.

The relay CH1 can only be switched off, by acknowledging the call.

If an already programmed transmitter is programmed again, the previous operating mode will be overwritten with the currently selected one.

The operating mode **PULSE** is set by default.

## ACKNOWLEDGE Function

While the **ACKNOWLEDGE** function is activated, incoming calls are additionally signalled by the red **QUIT** LED.

Acknowledgement is done using the **QUIT** button or an **ACKNOWLEDGE** transmitter. This resets the **QUIT** LED and the **CH1** relay.

A maximum of eight **ACKNOWLEDGE** transmitters can be programmed. The programming is done using the programming button **Q/S** (see page 2).

The function can be set with jumper **J1**:

**activated:** J1 Pos. 1+2

**deactivated:** J1 Pos. 1

If the **ACKNOWLEDGE** function is deactivated, no **CALL** display is shown and the button has no function.

The relay **CH1** can only be reset by **ACKNOWLEDGE** transmitters.

The **ACKNOWLEDGE** function is deactivated by default.

## CARE Function

If the **CARE** function is active, **all** calls will be ignored for 15 minutes.

After these 15 minutes, the **CARE** function is deactivated automatically, but can also be deactivated manually at any time.

The **CARE** function is activated or deactivated with a separate **CARE** transmitter or on the device using the button **I/O**.

**activate** (green LED flashes):

Button code **B** or **D** of a **CARE** transmitter or  
CARE button **I/O** (<5 s)

**deactivate** (green LED lights up):

Button code **A** or **C** of a **CARE** transmitter or  
CARE button **I/O** <5 s

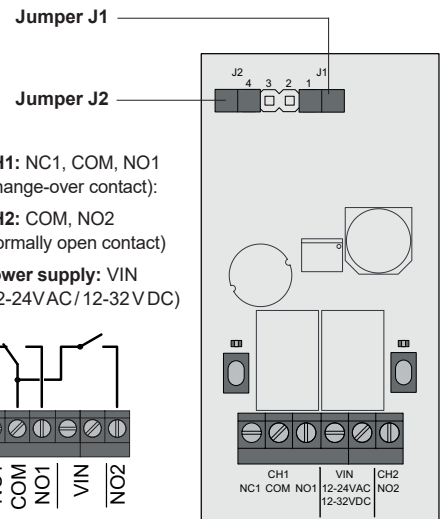
While the **CARE** function is active, the green LED flashes.

A maximum of eight **CARE** transmitters can be programmed. Programming is done using the programming button **Q/S** (see page 2).

## Setting up the receiver

Ensure that the radio connection is unobstructed. Avoid installation in a distribution box, in enclosures made of metal, in the immediate vicinity of large metal objects, on or close to the floor.

1. Loosen the two screws on the back and open the enclosure.
2. Activate or deactivate the desired functions with the jumpers **J1** and **J2**.
3. Connect the supply voltage and the safety extra-low voltage consumers to be switched. The polarity of the supply voltage  $V_{IN}$  does not need to be observed.
4. Screw the enclosure back together.
5. Transfer the coding of the transmitters to the receiver (page 2 'Programming').



## PROGRAMMING

### PROGRAM TRANSMITTERS

The RCL07 only responds to previously programmed Easywave transmitters.

To programme a transmitter, put the RCL07 into programming mode for the desired function and press the transmitter button to be programmed within 30 seconds.

For the CALL function, the operating mode currently set on jumper J2 is programmed along with the transmitter.

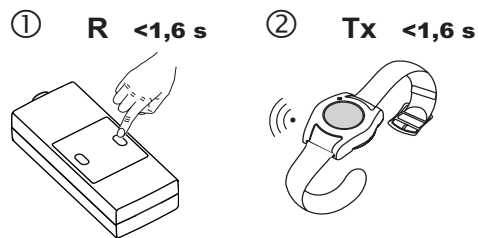
If the LED flickers for 4 seconds during the programming process, the memory for the selected function is full.


If a transmitter that has already been programmed is programmed again, the previous operating mode is overwritten with the newly selected one. It is not possible to overwrite a programmed CARE or ACKNOWLEDGE transmitter with a CALL function and vice versa.


To do this, the respective transmitter button must first be deleted and then programmed again.

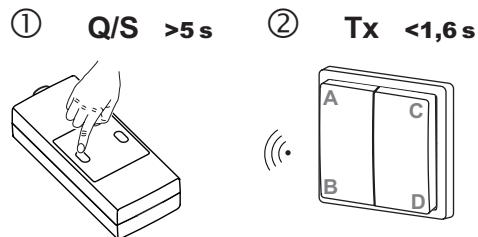
For transmitters with multiple buttons, the individual buttons can be divided between CALL, ACKNOWLEDGE and CARE functions as desired. When the programming or delete mode is started, any pending calls are automatically acknowledged and the CH1 relay is reset.


Operation [Press button]	RCL07 LED display	Note
<b>Programming CALL transmitters</b>		
① <b>R</b> <1,6 s	LED <b>R</b> flashes slowly (1x pause 1x  ...)	 Programming mode <b>CALL</b> transmitter
② <b>Tx</b> <1,6 s	LED <b>R</b> lights up for 2 s	




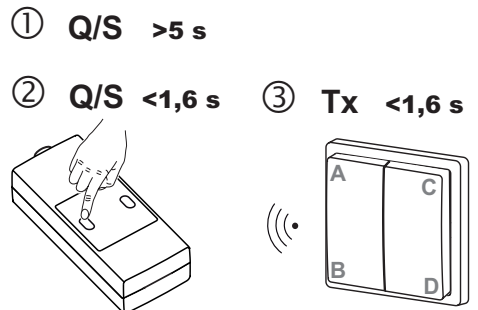
 If the LED **R** flickers for 2 seconds during the programming process, the transmitter has already been programmed as an ACKNOWLEDGE or CARE transmitter.  
If the LED **R** flickers for 4 seconds, the memory for **CALL** transmitters is full.


<b>Programming ACKNOWLEDGE transmitters</b>		
① <b>Q/S</b> >5 s	LED <b>Q/S</b> flashes slowly (1x pause 1x  ...)	 Programming mode <b>ACKNOWLEDGE</b> transmitter
② <b>Tx</b> <1,6 s	LED <b>Q/S</b> lights up permanently	



 If the **Q/S** LED flickers for 2 seconds during the programming process, the transmitter has already been programmed as a CALL transmitter.  
If the **Q/S** LED flickers for 4 seconds, the memory for **ACKNOWLEDGE** transmitters is full.

<b>Programming CARE transmitters</b>		
① <b>Q/S</b> >5 s	LED <b>Q/S</b> flashes slowly (1x pause 1x  ...)	 Programming mode <b>ACKNOWLEDGE</b> transmitter
② <b>Q/S</b> <1,6 s	LED <b>Q/S</b> flashes in cycles of 2 (2x pause 2x  ...)	
③ <b>Tx</b> <1,6 s	LED <b>Q/S</b> lights up permanently	Transmission code programmed as <b>CARE</b> transmitter



 If the **Q/S** LED flickers for 2 seconds during the programming process, the transmitter has already been programmed as a CALL transmitter.  
If the **Q/S** LED flickers for 4 seconds, the memory for the **CARE** transmitter is full.

**Q/S** Programming button **Q/S**  
**R** Programming button **R**  
**Tx** Transmitter button

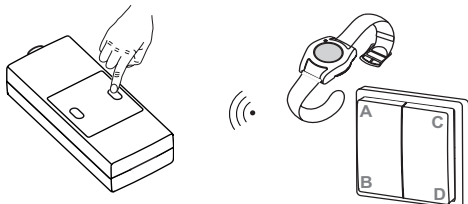

## PROGRAMMING

### DELETING TRANSMITTERS

To prevent the RCL07 from responding to previously programmed transmitters, they must be deleted from the receiver.

Deletion can be done for each transmitter individually or **all** programmed transmitters can be deleted at the same time.

In the delete mode for individual transmitters, no distinction is made between **CALL**, **CARE** and **ACKNOWLEDGE** transmitters.

	Operation [Press button]	RCL07 LED display	Note
Delete individual transmitters			
	① <b>R</b> >1,6 s	① <b>R</b> >1,6 s LED <b>R</b> flashes quickly	The receiver is ready for deleting transmitters for 30 seconds. To cancel, briefly press the <b>R</b> button 1x (<1.6 s).
	② <b>Tx</b> <1,6 s	② <b>Tx</b> <1,6 s LED <b>R</b> lights up for 2 s	
		 When attempting to delete a transmitter that has not been programmed, the LED <b>R</b> flickers for 2 seconds.	

### Delete all transmitters

	① <b>R</b> >1,6 s	LED <b>R</b> flashes quickly	The receiver is ready for deleting transmitters for 30 seconds. To cancel, briefly press the <b>R</b> button 1x (<1.6 s).
	② <b>R</b> >1,6 s	LED <b>R</b> lights up for 4 s	

**R** Programming button **R**  
**Tx** Transmitter button

## TRANSMITTER TYPES

All functions of the RCL07 (page 1 'Functions') can be switched using the buttons on the device as well as by radio. To be able to switch the various functions on and off by radio, an Easywave transmitter must be programmed into the RCL07 in the corresponding operating mode (page 2 'Programming').

The following transmitter types are available for programming:

### CALL transmitters

- Trigger the **CALL** function on the RCL07. Relay CH1 is switched according to the selected operating mode and the red LED **Quit** lights up if the **ACKNOWLEDGE** function is activated.
- Do not trigger a **CALL** if the **CARE** function is active!
- Battery undervoltage is monitored if supported by the transmitter.
- A maximum of 32 **CALL** transmitters can be programmed in total.

### ACKNOWLEDGE transmitters

- Acknowledge pending calls on the RCL07.
- Switch off the red LED **Quit** when a **CALL** is pending and the **ACKNOWLEDGE** function is active.
- Resets the relay CH1 when a **CALL** is pending (even when the **ACKNOWLEDGE** function is deactivated).
- No monitoring of battery undervoltage.
- A maximum of 8 **ACKNOWLEDGE** transmitters can be programmed.

### CARE transmitters

- Switch on the **CARE** function by briefly pressing transmitter button **B** or **D** for a maximum of 15 minutes.
- Can switch off the **CARE** function manually before the 15 minutes have elapsed by briefly pressing transmitter button **A** or **C**.
- The green LED flashes when the **CARE** function is active.
- No monitoring of battery undervoltage.
- A maximum of 8 **CARE** transmitters can be programmed.

## BATTERY UNDERVOLTAGE

If the battery capacity of a programmed **CALL** transmitter with battery control function is low, the transmitter sends an undervoltage data telegram. The relay channel 2 (CH2) is switched for approx. one second and the red **Q/S** LED flashes to signal the undervoltage.

If the RCL07 receives an undervoltage data telegram while the **ACKNOWLEDGE** function is active, the undervoltage is only displayed on the device after a possible call has been acknowledged. Now change the battery of the last call transmitter used. If the RCL07 receives two telegrams in succession from this transmitter without an undervoltage data message, the receiver resets the undervoltage display automatically.

The undervoltage display can also be reset by briefly pressing the **Quit** button (even if the **ACKNOWLEDGE** function is deactivated).

## GENERAL INFORMATION

### Waste electrical products are not to 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 unauthorized tampering with or modifications to the product shall render this warranty null and void.

## Conformity



ELDAT EaS GmbH hereby declares that the radio equipment type RCL07 is in compliance with Directives 2014/53/EU and 2017/745/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.eldat.de](http://www.eldat.de)

## Customer Service

If the device does not work properly despite proper handling or in case of damage, please contact the manufacturer or your retailer.

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