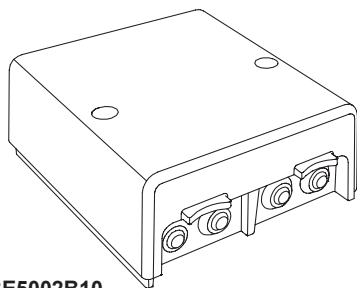


Models



RCL03E5002B10

Technical Details

Frequency:	868.30 MHz
Modulation:	FSK
Coding:	Easywave
Power supply:	12-24 VAC 12-32 VDC
Current consumption:	0.18 W standby 0.6 W relay switched (w/o load)
Input:	2 external buttons
Output:	2 potential-free relay contacts (changeover)
Max. contact rating AC (Ω)	
max. switching voltage:	120 V
max. switching current:	1 A
max. switching power:	62 VA
Max. contact rating DC	
max. switching voltage:	50 V
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):	80,4/65,5/29,5 mm
Weight:	76 g
*) Only with screwed housing and correctly inserted-cable from below	

Scope of Delivery

Mini receiver, adhesive pad, mounting material (screws and anchors), housing screws, 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



Carefully read through these instructions before connecting and operating the receiver!

Caution! Observe the permissible supply voltage and the max. contact rating!
Have faulty radio controls checked by the manufacturer!
Do not make any unauthorized alterations or modifications to the receiver!

Function

The RCL03 Easywave mini receiver can be operated in a voltage range of 12-24 VAC or 12-32 VDC.

Two potential-free relay outputs may be switched. A total of 32 different Easywave radio transmission codes can be programmed.

The memory slots can be divided between the two outputs as required.

If a transmitter is programmed into both outputs, it still only occupies one memory slot.

It is also possible to connect one external button for each channel which can then be used to switch the corresponding relay according to the selected operating mode.

To do this, the button inputs T1 and T2 must be wired to the supply voltage VIN+.

Operating Modes

The radio control can be operated in five different operating modes with Easywave transmitters for 1-button-, 2-button- or 3-button operation. The operating mode can be selected with jumper J1.

PULSE

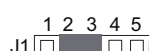
(1-button operation)



If a transmitter button or an external button is pressed, the corresponding relay is triggered for 1 second.

ON/OFF

(2-button operation)



Each relay can be switched separately ON and OFF.

The external buttons toggle between ON and OFF in this operation mode.

transmitter button	function
A or C	ON
B or D	OFF

MOTOR CONTROL (UP/DOWN)

(2-button operation)



The relays are controlled in combination and are interlocked.

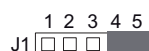
STOP with opposite direction

transmitter button	function
A or C	UP
External button T1	STOP for DOWN direction
B or D	DOWN
External button T2	STOP for UP direction

The maximum runtime is 90 seconds.

DEAD MAN

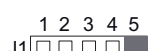
(1-button operation)



Each relay can be switched separately. The relay is triggered as long as the corresponding transmitter button or the corresponding external button is pressed (transmitter button operation max. 36 secs).

MOTOR CONTROL (UP/STOP/DOWN)

(3-button resp. 4-button operation)



The relays are controlled in combination and are interlocked.

transmitter button	function
A	UP
B	DOWN
C	STOP
D	STOP



The external buttons T1 and T2 behave as if they are in 2-button motor operation mode!

The maximum runtime is 90 seconds.

Mounting and Connecting

1. Open the case by pushing the case cover upwards using the tabs (see figure 1).
2. Mount the receiver on a suitable location, using the mounting accessories supplied.



Make sure there is no interference with the wireless connection. Do not mount the device in a distribution box, in metal casings, in direct proximity to large metal objects, on the floor or close to it. The maximum length of all connecting cables may not exceed 3 m!

3. Select the desired operating mode with the jumper J1.
4. Connect the supply voltage and the safety extra-low voltage devices according to the connection diagram.



In the MOTOR operating mode, the receiver may only be operated with 12-32 VDC.

5. If necessary, connect the external buttons to the terminals T1 and T2.



The external buttons always use the operation mode, currently set with the jumper J1.

6. Program the codes of the transmitters to the receiver (see section "Program transmitters").
7. Put the housing cover back on.
To achieve IP54 protection, the housing cover must be screwed to the base. Use the supplied screws.

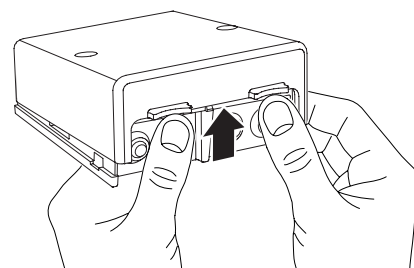
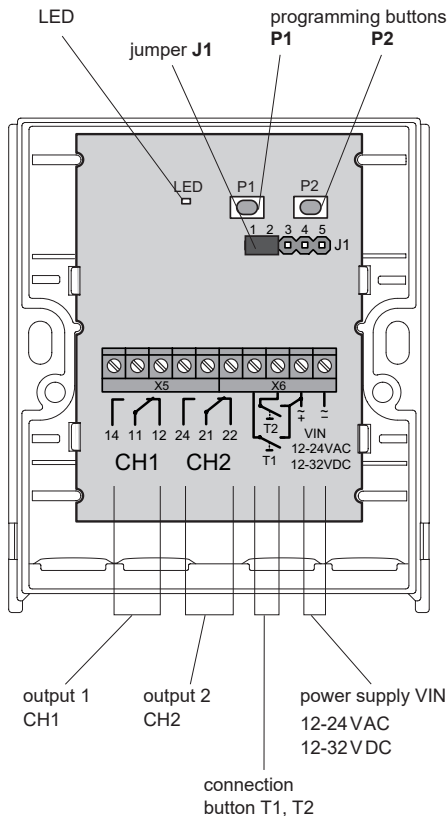
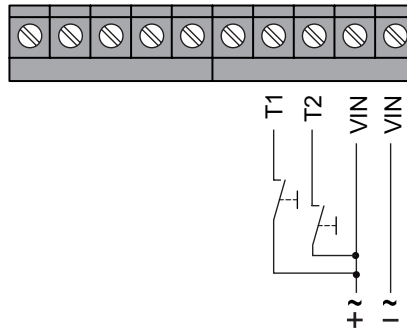


figure 1

Electrical connection



EXTERNAL BUTTONS



External button 1 (for output 1/CH1)

- terminals VIN+ and T1

External button 2 (for output 2/CH2)

- terminals VIN+ and T2

Program transmitters

In the programming mode you can transfer the codes of your transmitter buttons to the receiver. The operating mode set with the jumper J1 at this point is used for the transmission code currently programmed. A total of 32 transmission codes can be programmed.

1. Briefly (<1.6 sec.) press the programming button P1 (for output 1) or P2 (for output 2). The programming mode is activated. The LED flashes briefly.
2. Press and hold one of the transmitter buttons to be programmed. When the code has been saved, the LED lights up for 4 seconds and then flashes again. Release the transmitter button.
3. Repeat step 2 with other transmitters, if needed.
4. Exit the programming mode, by briefly pressing P1 or P2 again. The LED turns off.

In operating modes with 2-button or 3-button operation, only one transmitter button has to be programmed. The code of the associated button is assigned automatically!

The programming of the receiver remains, even in case of extended power failures.

If the LED flickers for 4 seconds during the programming process, the memory is full. A transmitter can only be programmed again if another one has been deleted before.

Deleting transmitters

In the delete mode you can delete specific transmission codes programmed into the receiver.

1. Keep the programming button P1 (for output CH1) or P2 (for output CH2) pressed for longer than 1.6 sec. The delete mode is activated. The LED flashes rapidly.
2. Press the selected transmitter button you want to delete. As soon as the code has been deleted, the LED lights up for 4 sec. and then flashes again rapidly.
3. Repeat step 2 with another transmitter or briefly (< 1.6 sec.) press the programming button P1 or P2 in order to return to the operating mode. The LED turns off.



In the operating modes „motor control“ and „ON/OFF“, the code of the corresponding transmitter button will also be deleted.

Reset

In the Reset mode you can delete all codes programmed into the receiver.

1. Keep the programming button P1 or P2 pressed for more than 1.6 sec. The delete mode is activated. The LED flashes rapidly.
2. Press the programming button P1 or P2 again and keep it pressed for more than 1.6 sec. As soon as the memory has been deleted completely, the LED lights up for 4 sec. and then flashes again.
3. Briefly (<1.6 sec.) press the programming button P1 or P2 in order to return to the operating mode.

Disposal

Waste electrical products must 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 unauthorized tampering with, or modifications to, the product shall render this warranty null and void.

Conformity



Hereby, ELDAT Eas GmbH declares that the radio equipment type RCL03 is in compliance with directive 2014/53/EU and 2017/1206/UK. The full text of the EU and UK declaration of conformity is available at the following internet address: 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.

ELDAT Eas GmbH

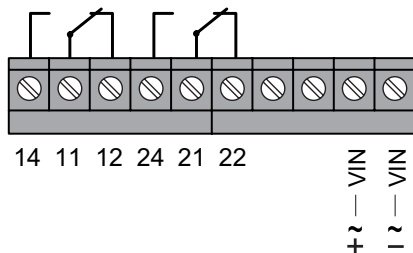
Schmiedestraße 2
15745 Wildau
Germany

Phone: +49 3375 9037-310

Internet: www.eldat.de

E-mail: info@eldat.de

DEAD MAN, ON/OFF and PULSE



Supply voltage (12-24 V AC/12-32 V DC)
VIN+, VIN-

Output 1 (CH1)

- normally open contact: terminals 11 and 14
- normally closed contact: terminals 11 and 12

Output 2 (CH2)

- normally open contact: terminals 21 and 24
- normally closed contact: terminals 21 and 22

MOTOR CONTROL

