

RD10X2ELL CONTROL BOX QUICK START GUIDE

Installation & Commissioning



A quick guide for qualified installers. For full installation and safety information refer to the RD10X2ELL Control Box Installation Guide, Edition 2024/1.

ROLLERDOR ADVICE

- Read the full RD10X2ELL Installation Guide before installation and commissioning.
- Mount out of easy reach of children, between 1500mm up from the floor and 300mm down from the roof or ceiling.
- The control box is supplied in Hold to Run operation. Limits must be set and Hold to Run exited before handover.

1 MOUNT THE RECEIVER BOX

2 WIRE THE MOTOR

3 CONNECT THE MAINS SUPPLY

4 CONNECT THE SAFETY EDGE

5 EMERGENCY STOP / SAFETY BRAKE (21 & 22)

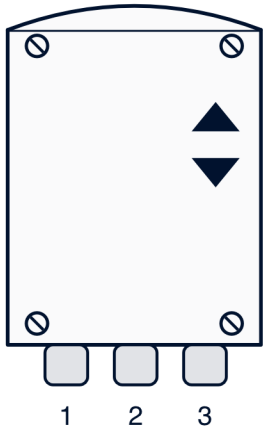
6 SET LIMITS & EXIT HOLD TO RUN

7 PROGRAM A TRANSMITTER (2 CHANNEL)

Remove all 4 screws from the cover to reveal the control board inside.

Fit the box with the cable glands pointing downwards, at a comfortable height to operate the push buttons but out of easy reach of children.

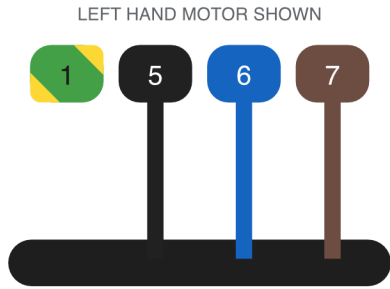
Mark the 4 fixings, drill and secure the unit to the wall.



- 1 Motor wire
- 2 Power wire
- 3 Safety brake (if supplied)

Motor wiring is handed. Use the column that matches your motor hand.

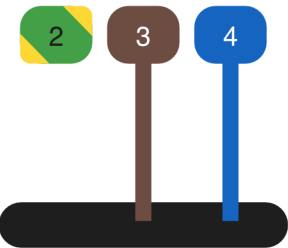
TERM	LEFT HAND	RIGHT HAND	
1	Green/Yellow	Green/Yellow	Earth
5	Black	Brown	Open
6	Blue	Blue	Common
7	Brown	Black	Close



MOTOR DIRECTION
If the door runs the wrong way, swap the brown and black motor wires over on terminals 5 and 7.

Connect the mains supply as shown.

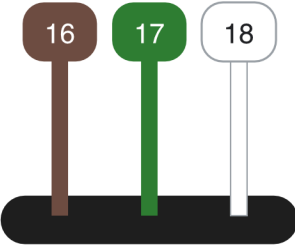
TERMINAL	COLOUR	FUNCTION
2	Green/Yellow	Earth
3	Brown	Live (L)
4	Blue	Neutral (N)



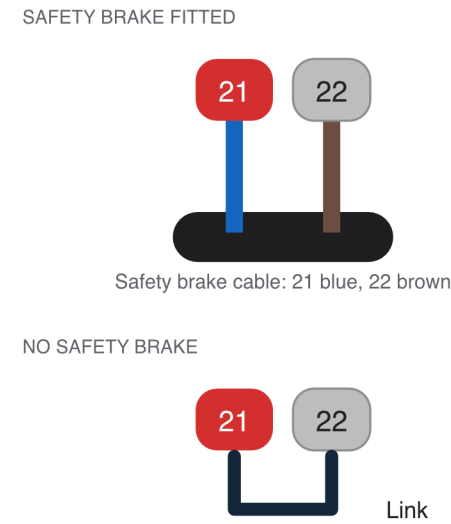
COURTESY LIGHT (8 & 9)
Terminals 8 and 9 are a 240V courtesy light output, 300W max lamp.

Wired infrared / 8K2 safety edge input.

TERMINAL	COLOUR	FUNCTION
16	Brown	Edge input
17	Green	Edge input
18	White	Edge input



Normally-closed input. The circuit must be closed for the unit to operate.



Run the safety brake two-core cable to the same end as the receiver box and fix it clear of the working mechanism.

If the wireless optical edge kit is fitted, check the dip switches first (page 2).

The control box is supplied in Hold to Run for open and close. This is signified by the flashing LED.

- If the motor limits have not been set, set them now using the P1 (UP) and P2 (DOWN) buttons.
- To take the unit out of Hold to Run, press both P1 and P2 three times. On the third press, hold until you hear a single beep and the LED stops flashing.



- Press and hold P1 and P2 for 5 seconds. You will hear one beep and the LED will light up.
- Press P2 twice. On the last press hold, so the buzzer emits a continuous sound.
- While P2 is still pressed, press the top button on the transmitter. You will hear a faster beeping sound.

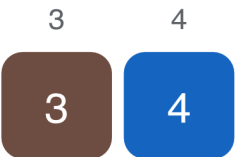


DELETING ALL TRANSMITTERS
Enter programming mode first. Press P1 five times and on the last press hold for at least 10 seconds. The buzzer emits a rapid beeping sound. Once the sound becomes continuous, release P1.

CONTROL UNIT OVERVIEW



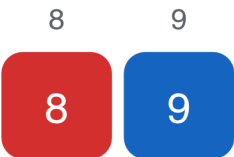
Earth
Motor / supply



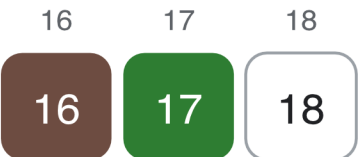
Mains 240V
Live / Neutral



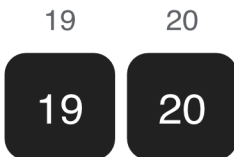
Motor
Open / Common / Close



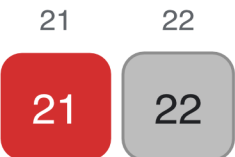
Courtesy light
240V, 300W max lamp



Safety edge
Infrared / 8K2 input



Push-button
Com / step-by-step (N.O.)



Emergency stop
N.C. / Common

FINAL COMMISSIONING CHECKS

- ✓ Limits set, Hold to Run exited, LED no longer flashing
- ✓ Door opens and closes fully and smoothly
- ✓ Safety edge stops and reverses the door
- ✓ Emergency stop / safety brake input made, or 21 linked to 22
- ✓ All transmitters programmed and tested
- ✓ Cover refitted and all 4 screws replaced
- ✓ Operation demonstrated to the end user

INSTALLER NOTES

- Connector blocks are not provided and further fittings may be required.
- The glands at the bottom take (1) the motor wire, (2) the power wire and (3) the safety brake if supplied.
- Terminals 8 and 9 are a 240V courtesy light output, 300W max lamp.
- Wireless optical edge, keypad, safety edge exclusion and troubleshooting are on page 2.

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Accessories, Safety Edge Exclusion & Troubleshooting



A quick guide for qualified installers. For full installation and safety information refer to the RD10X2ELL Control Box Installation Guide, Edition 2024/1.

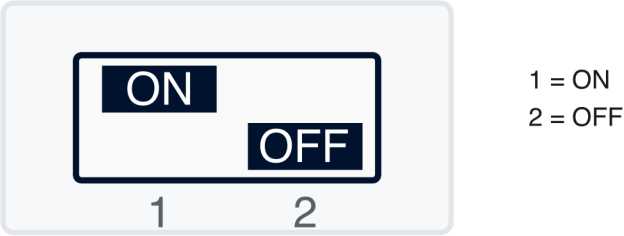
WIRELESS SAFETY EDGE KIT (OPTICAL EDGE)

CHECKING THE BASE RAIL UNIT

- 1. The base rail unit is already installed on the last slat of the curtain, on the same side as the power. It is a small black unit. Undo all 3 screws and remove the lid.
- 2. Check the GREEN LED is on and the wires are secure. Both banks of terminals, from outside to in, are Brown - White - Green.

CHECKING THE CONTROL BOX

- 1. Check the dip switches on the main board. Dip switch 1 should be ON and dip switch 2 should be OFF.



WIRELESS KEY PAD

INSTALLATION

Remove the small screw at the bottom and lift off the front cover. Use the back-plate as a template, mark two fixing holes and secure it with the plugs and screws provided. Fit the 9V alkaline battery supplied. Once programming is complete, push the keypad onto the back-plate and secure with the screw.

PAIRING USING THE ACCESS CODE

The keypad is supplied with a factory access code of 12345. Press and hold P1 and P2 for approximately 5 seconds until you hear a beep. Press and release P2, then press and hold P2 so the box emits a continuous beep. While holding P2, enter 12345 on the keypad, then firmly press and release number 1. The continuous beep changes to a faster beep, which means the keypad is programmed.

CHANGING THE ACCESS CODE

Enter 12345 and press the M1 button (the white button on the back of the keypad). A beep is emitted. Enter your new 5 digit code, then within 1 second enter the same code again. A continuous beep of approximately 2 seconds confirms the change. Codes can be any combination of 0-9, excluding A and B.

OPERATION

Enter the 5 digit code. Each number gives a short beep and the final number gives a longer beep. Press 1 to open or 3 to close.

SAFETY EDGE EXCLUSION ZONE

The curtain is supplied with stops at each end to stop an uneven floor having an effect. If the curtain reopens having hit the floor, the safety edge exclusion should be set to turn the edge off 50mm before it hits the floor.

The safety edge will have to return to the top limit before closing, and the alarm will be disabled.

ACTIVATION

Within 30 seconds from power-on, press P1 ten times and keep it pressed for 5 seconds on the last press. Open the door then close it in Hold to Run to set the exclusion point. The edge is excluded for a maximum of 50mm of travel.

DEACTIVATION

Within 30 seconds from power-on, press P1 eleven times and keep it pressed for 5 seconds on the last press.



TROUBLESHOOTING

ACOUSTIC SIGNALS FROM THE CONTROL UNIT

SEQUENCE	MEANING	SOLUTION
1 constant beep (continuous or intermittent)	Faulty control unit	Replace the control unit
2 beeps	Motor problem	Set the limit switches. The thermal protection could be activated, wait while the motor cools down. Check the motor connection. Test the motor separately by means of a proper tool.
3 beeps at startup	Radio receiver is empty	Program at least one transmitter
4 beeps	Radio receiver is full	Max. number of transmitters exceeded
5 beeps (L1 = ON)	Safety test failure: wireless safety edge system	Check the rubber profile general condition. Check photocells alignment and the connections.
6 beeps (L2 = ON)	Safety test failure: emergency STOP (TB)	Check the safety device connected and the connections
8 beeps	Limit switch error: the manoeuvre exceeded the working time	Check the limit switches and, in case, set them again
9 / 10 beeps	One of the relays is defective	Replace the control unit

OTHER POSSIBLE ISSUES

PROBLEM	SOLUTION
None of the previous signals, but the door doesn't move downward	Command an opening manoeuvre until the top limit is reached.
In the closure, the door hits the floor and opens again	The bottom limit could be too low, adjust it upwards. In case of uneven floor, deactivate the safety edge in the last part of the closure. It is necessary to command the closure starting from the upper limit switch in order to be effective.
The door can be operated but the safety systems don't activate	Check the motor direction. If wrong, swap brown and black motor wires over (terminals 5 & 7).
The control unit responds to the commands sent by transmitters, but the front cover is not functioning	If L5 led flashes, the "holiday mode" is activated.
The fuse blows while operating the door	Check the wiring again.

⚠ WARNING: If the safety devices (except for the TB input) are defective or have been activated, it is possible to operate the door anyway by keeping the command button pressed for more than 5 seconds. The control unit will automatically switch to Hold to Run mode.

ROLLERDOR TECHNICAL SUPPORT

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ROLLERDOR ADVANTAGE

- ✓ Ready for quick and easy commissioning
- ✓ UK technical support you can rely on

⚠ This guide is intended as a quick reference only. Installation must be carried out by a competent person. Always refer to the RD10X2ELL Control Box Installation Guide, Edition 2024/1, before commissioning.

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