RAPTORTRON · USER MANUAL · INTEGRATED CONTROLLER

DC REC

Installation, connection, NO/NC setup and safety instructions for the DC REC smart dry-contact controller for roller doors, curtains and automatic gates.



User manual · English edition

01 Product overview



DC REC integration controller.

Smart dry-contact controller that controls roller shutter motors, motorised curtains and automatic gates.

ITEM	DETAIL
Model	DC REC
Category	Integrated controller

02 Features

1. Designed to control automatic shutter motors, roller doors, motorised curtains or automatic security gates.
2. Connects through dry contacts to low-voltage control inputs, ensuring compatibility with popular brands of automation equipment.
3. Built-in Raptortron Mesh technology, supporting automated management of the door and gate systems in the building.
4. Allows remote control, position status checks and activity monitoring through the Raptortron app.
5. Supports automation by schedule, dusk-to-dawn operating cycles and security trigger conditions.
6. Can be wired to work independently or fully in parallel with an existing motor control switch box or external remote.

03 Technical specifications

01 Design & installation

SPECIFICATION	VALUE
Housing colour	White
Housing material	Flame-retardant PC + ABS plastic
Dimensions	82mm x 50mm x 32mm

02 Interface & control modes

SPECIFICATION	VALUE
Control modes	Open / Close / Stop via normally open contact (NO) / Stop via normally closed contact (NC)
Output mode configuration	Momentary / Pulse (default) or Maintained / Latching (optional)
Control interface	01 setup/reset button

03 Outputs & controlled load

SPECIFICATION	VALUE
Output terminals	COM, CL (Close), OP (Open), STOP (NO), STOP (NC)
Rated output current	5A/channel

04 Power & current

SPECIFICATION	VALUE
Input voltage	80–240 VAC, 50–60Hz
Standby power consumption	< 1W

05 Connectivity & compatibility

SPECIFICATION	VALUE
Wireless communication	Raptortron Mesh
Wireless range	100m open air / 30m indoor

04 Installation guide

In the box

- Smart switch body
- Touch glass panel with bezel
- 2 wall screws
- Quick guide & warranty card

Installation steps

1. **Switch off the power.** Turn off the main circuit breaker for the area where the switch is installed. Use a voltage tester to confirm that there is no power at the switch location.
2. **Connect the wires.** Connect the L (Live) and N (Neutral) wires to the matching terminals on the switch body. For a switch that controls loads: connect the load wire (L-out) to the device. For a curtain switch: connect the 2 dry contacts (NO) to the Open/Close motor.
3. **Mount in the flush box.** Place the switch body in the 75×75mm flush box and tighten the 2 screws evenly; make sure the face sits flat against the wall.
4. **Fit the glass panel.** Align the touch glass panel with the body and press all 4 corners evenly until it clicks into place; fit the decorative bezel on the outside.
5. **Restore power.** Switch the circuit breaker back on. The indicator LED lights up and the device enters standby, waiting to be connected.

05 Connection guide

Preparation

- Raptortron smart switch
- 1 central hub with an Internet connection
- Raptortron app already connected to the central controller (make sure the phone and the central controller are on the same Internet network)

Download the Raptortron app for Android or iOS.

In the Raptortron app: auto learn

1. **Tap.** Open the Raptortron app, tap the "Menu" icon at the top of the screen, then select "Devices".
2. **Tap.** Tap the "Auto learn" icon.
3. **Tap.** When the "Auto learn" dialog appears, tick the "I have understood and agree" box, then tap **"OK"** to confirm.
4. The system starts a 60-second countdown to scan automatically and complete the device connection.

In the Raptortron app: manual learn

1. Open the "Menu" in the app, then go to "Devices".
2. **Press and hold.** Press and hold the icon of the device that you want to re-learn or replace.
3. In the list of options that appears, select "Manual learn".
4. **Tap.** When the "Manual learn" dialog appears, tap the "Learn" button. The dialog shows the Device code and the Serial number of the device.
5. The app counts down 60 seconds to finish synchronising and remembering the new device.

Teaching the device ID to the central controller

Do this on the device while the app is counting down.

1. **Press and hold.** Press and hold the device button to enter the MENU.
2. **Press.** Press the device button to teach the ID.

Result

- **If successful:** the device automatically returns to normal operation.
- **If it fails:** the LED blinks quickly 12 times in a row. Press the control button again to reconfigure the device.

Important

- Auto learn fails if the number of devices exceeds the capacity limit of the central controller.
- In that case, see the Technical specifications of the central controller for the number of devices allowed, or switch to the manual learn method.

Switching the STOP channel between NO and NC

1. Switch to NC mode (normally closed)

1. **Press and hold.** Using a small screwdriver (or a thin pin), press and hold the button on the bottom of the device until the light flashes 4 times to enter setup mode.
2. **Press.** Press the button once more to select NC mode.
3. **Press and hold.** Press and hold the button to save and exit.

The light comes on for 1 second and then goes off: the device is in NC mode.

2. Switch to NO mode (normally open)

1. **Press and hold.** Press and hold the button until the light flashes 4 times to enter setup mode.
2. **Press.** Press the button once more to switch to NO mode.
3. **Press and hold.** Press and hold the button to save and exit.

The light flashes 2 times: the device is in NO mode.

LED flashes when entering a mode

When you press and hold the button to enter a mode:

LED FLASHES	MODE
2 times	Learn mode
3 times	Manual channel control mode
4 times	NO/NC switching mode for the STOP channel
5 times	Factory reset

06 Safety notes

! Use only a power supply that matches the technical specifications in this document. Using the wrong power supply can damage the device and be dangerous.

! Do not open or repair the device while it is powered. All electrical wiring must be done by a qualified electrician.

! Keep the device in a dry place, away from direct water splashes (except models explicitly rated as water-resistant, IP xx).

! The product is covered by the official Raptortron warranty policy. Please keep your purchase invoice for the best support.

English edition translated in full from the manufacturer's original manual. Specifications are subject to change; current data: https://raptortron.com/product-dc-rec.html. Online version: https://raptortron.com/manuals/dc-rec/