RAPTORTRON · USER MANUAL · SMART SENSOR

DSE

Installation, connection and safety instructions for the DSE wireless magnetic door sensor with a battery life of up to 2 years.



User manual · English edition

01 Product overview



DSE door sensor.

Wireless magnetic door sensor that instantly detects whether a door is open or closed, with a battery life of up to 2 years.

ITEM	DETAIL
Model	DSE
Category	Smart sensor

02 Features

1. Smart magnetic sensor, designed to instantly detect the open/closed state of doors and windows.
2. Ultra-compact, attractive design that is easy to install; energy-saving technology gives a battery life of up to 02 years.
3. Built-in Raptortron Mesh technology, supporting real-time security linking and automation.
4. Sends instant open/closed status notifications to the app, according to a schedule set by the user.
5. Works as an automation trigger condition, allowing smart scenes to run flexibly when the door state changes.

03 Technical specifications

01 Design & dimensions

SPECIFICATION	VALUE
Housing colour	White
Housing material	Flame-retardant PC + ABS plastic
Dimensions	35mm x 25mm x 10mm

02 Sensing & measurement

SPECIFICATION	VALUE
Sensor type	Reed switch magnetic contact sensor
Magnetic sensitivity	20 - 25 AT

03 Control interface

SPECIFICATION	VALUE
Control interface	01 setup/reset button

04 Power & load

SPECIFICATION	VALUE
Power supply	01 CR2032 lithium battery
Battery life	Up to 02 years
Operating current	20mA
Standby current	2.5uA

05 Connectivity

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

06 Indicators & alerts

SPECIFICATION	VALUE
Status indicator LED	Status indicator light
Audible alert	Buzzer

04 Installation guide

In the box

- Raptortron sensor
- Battery as per the product configuration
- 3M adhesive pad
- Wall screws (if needed)
- Quick guide & warranty card

Installation steps

1. **Insert the battery.** Open the sensor cover and insert the battery with the correct polarity (+/-). The LED flashes once to confirm that power is supplied.
2. **Choose the location.** Place the sensor in a position that suits the detection range of the product (see Technical specifications for details).
3. **Clean the surface.** Wipe the mounting spot clean and dry with alcohol or a damp cloth; let it dry completely before sticking the sensor on.
4. **Fix the sensor.** Peel off the protective film of the 3M tape and press the sensor firmly into place for 30 seconds. If a more secure fixing is needed, use the supplied wall screws.
5. **Test operation.** Trigger an event (opening/closing the door, movement, etc.) to confirm that the sensor responds with its LED.

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 button to enter the MENU.
2. **Press.** Press the button once more to teach the ID. Make sure the MCE is in ID-teaching mode.

Result

- **If successful:** the device exits automatically once the ID is taught.
- **To try again:** press the button once more, or press and hold the button until you hear a long beep to exit.

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.

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-dse.html. Online version: https://raptortron.com/manuals/dse/