

RDR 2

Automatic Door Radar



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Before operating the device, be sure to read this user manual carefully. Follow the steps described in the installation, electrical connection, and initial startup sections with attention. After completing these steps, the product owner/user must keep this manual in a known and easily accessible location for the entire service life of the product.



- Store the product in a dry environment. Otherwise, malfunctions may occur.
- In battery- or accumulator-powered products, batteries and accumulators are not covered under warranty. Similarly, failures caused by battery discharge or leakage in products that have exceeded their shelf life are not covered under warranty.
- All service and repair operations must be carried out exclusively by Kontal Elektronik technical service. The product must not be tampered with by unauthorized personnel.
- The operating voltage of each product is indicated on the label. Do not supply the device with a voltage different from the specified value.



- ✓ Failure to comply with the above-mentioned conditions may result in fire, serious personal injury, or damage to the product or the structure in which it is installed. In such cases caused by user negligence or misuse, **Kontal Elektronik San. ve Tic. Ltd. Şti.** assumes no responsibility.
- ✓ This symbol will be used to highlight important notes in the following sections.



- ✓ Do not touch the power supply terminals of the device with bare hands.
- ✓ This symbol will be used to indicate warnings related to voltage in the following sections.



- ✓ This symbol on the label indicates that the device operates with a DC supply voltage.



- ✓ This symbol on the label indicates that the device is equipped with reinforced insulation.



- ✓ This symbol on the product or its packaging indicates that the product must not be disposed of as household waste. Instead, it should be delivered to designated collection points for the recycling of electrical and electronic equipment. Improper disposal or destruction of the product may have adverse effects on the environment and human health.



- ✓ This document and its revisions are the legal property and responsibility of **KONTAL ELEKTRONİK SAN. VE TİC. LTD. ŞTİ.** Any unauthorized modification or alteration is strictly prohibited.



- ✓ Ensure that the system is properly grounded for the device to operate reliably.

1. DEFINITION

RDR2 is a high-precision radar detection sensor developed for automatic door systems.

It detects human or object movement from its front-facing surface and sends a trigger signal to the connected door system, enabling automatic door operation. Thanks to its user-friendly interface, the detection range can be manually adjusted via an integrated control component on the device. This range can be set up to a maximum of 4 meters.

With its high accuracy and durable structure against environmental conditions, RDR2 is an ideal solution for high-traffic areas such as store entrances, offices, hospitals, and similar access points.

1.1 BOX CONTENT

The contents of the **RDR2 – Automatic Door Radar** package are listed below:

1x RDR2 – Automatic Door Radar	1x RDR2 Socketed Connection Cable 1x RDR2 User Manual
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**For special orders, the box contents may vary depending on the project or customer requirements.*

2. TECHNICAL SPECIFICATION

Model	RDR2
Product Code	K162-01
Working Volatage	24V DC
Working Current	14mA @ 24V DC
Contact Type	Dry Contact (NO / NC)
Contact Capacity	30V DC 1A / 125V AC 0.3A(Max.)
Relay Activation Duration	1sn
Working Distance	4m (Max.)
Weight	150 gr
Dimensions	140 x 78 x 90 mm

3. ADJUSTMENT COMPONENT

POT1: This component allows you to adjust the detection range of your device.
(See also Section 4.1)

JMP1: This component allows you to configure the relay output contact of your device.(See also Section 4.1)

RED LED: This component indicates the detection status of your device.

BLUE LED: This component indicates that the device has successfully detected a valid target.

4. RDR2 CONTROL BOARD

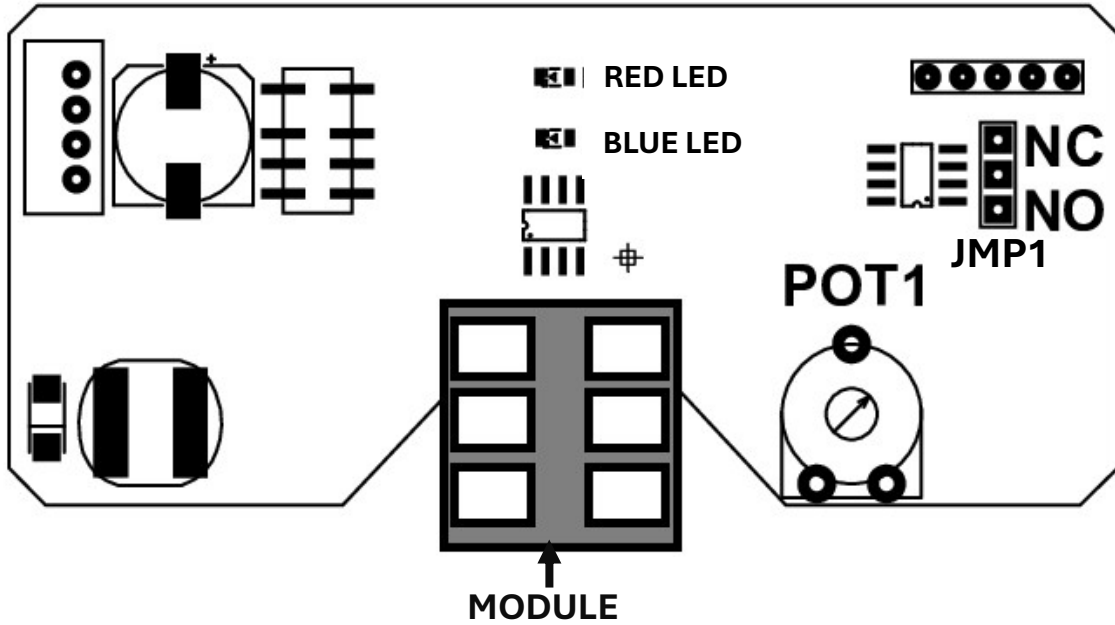


Figure 4.1 - RDR2 Control Board

4.1 RDR2 CONTROL BOARD INSTALLATION AND INITIAL START-UP

- Remove the top cover of your device.
- Adjust the detection range of your device using **POT1**, located on the control board.

Turning **POT1** **clockwise** will increase the detection range, while turning it **counterclockwise** will decrease it. The maximum detection range of the device is **4 meters**.

- Adjust the relay contact selection of your device using **JMP1**.

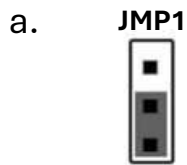


Figure 4.1.1 – RDR2
NO Contact Selection



Figure 4.1.2 – RDR2 NC
Contact Selection

- Make the cable connections of your device as shown below;

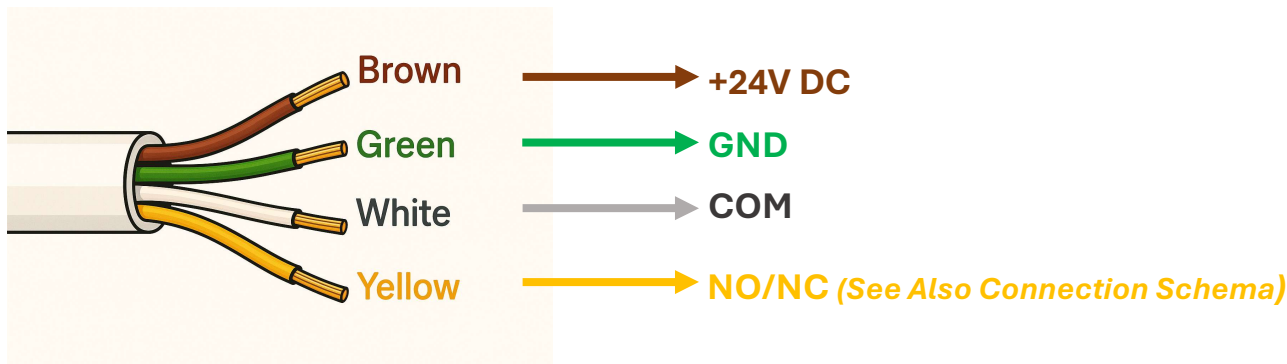


Figure 4.1.3 – RDR2 Socketed Cable Connection Diagram

5. CONNETION SCHEMA

The wiring diagram for **RDR2 NO (Normally Open Contact)** is provided below:

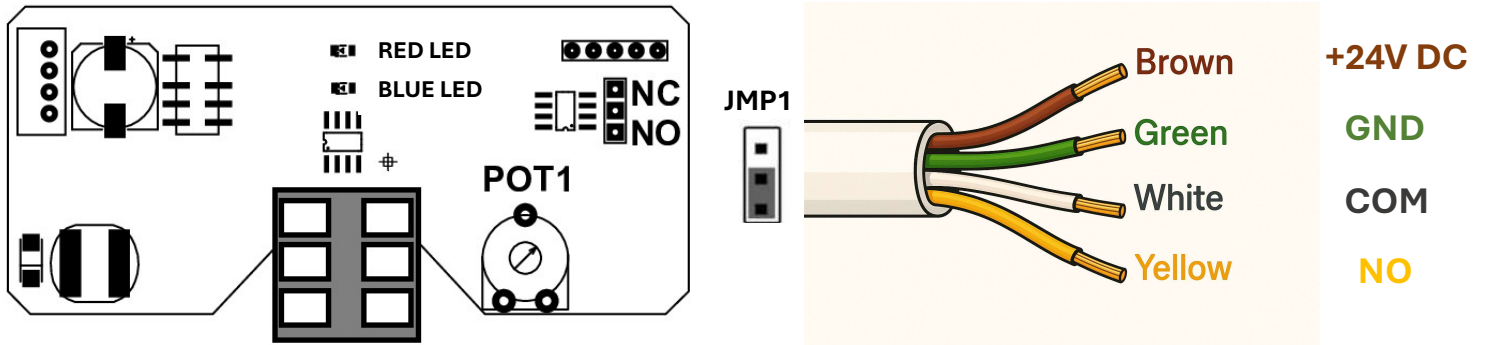


Figure 5.1 – RDR2 NO Connection Schema

The wiring diagram for **RDR2 NC (Normally Closed Contact)** is provided below:

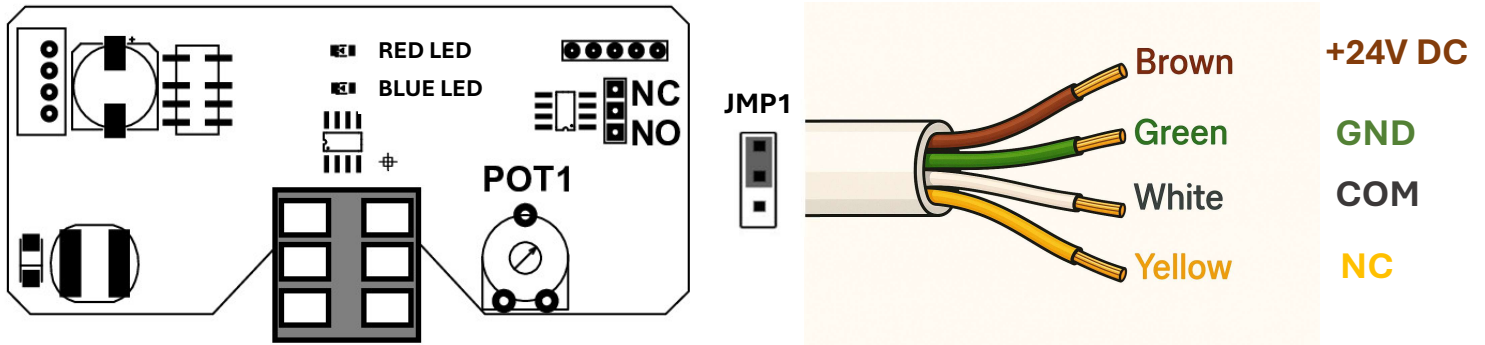


Figure 5.2 – RDR2 NC Connection Schema



When making the power connections of the device, please pay attention to the “+” and “–” polarities!



Do not supply power to the device outside the specified operating voltage. Otherwise, the device may be damaged!



For proper and stable operation of the device, it is recommended to use a power supply with a minimum output power of 1.2 W.



Do not physically touch the module while making connections and adjusting the device settings. Otherwise, deviations in the detection sensitivity may occur.

6. INSTALLATION

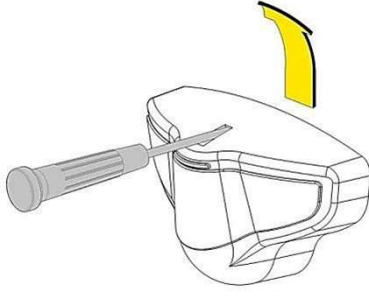


Figure 6.1 – Removal of the RDR2 Top Cover

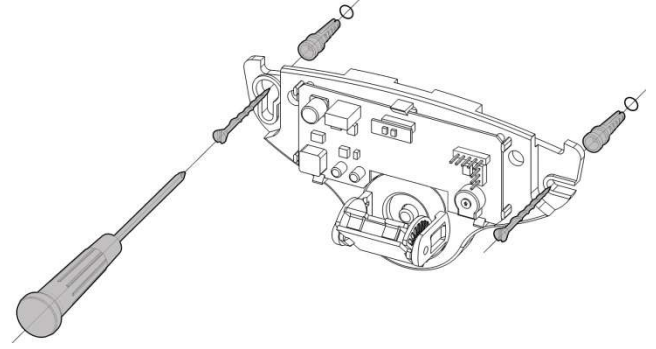


Figure 6.2 – Mounting the RDR2 on the Wall

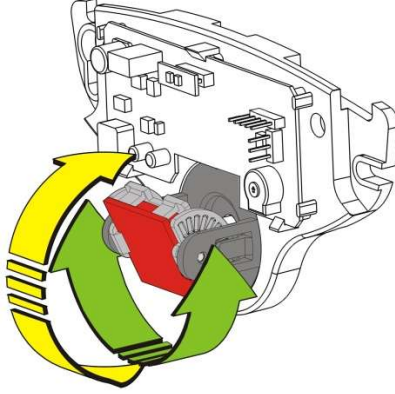


Figure 6.3 – Adjusting the Detection Angle of the RDR2

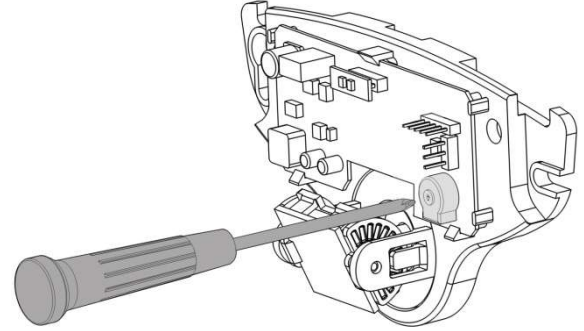


Figure 6.4 – Performing the Operating Settings of the RDR2

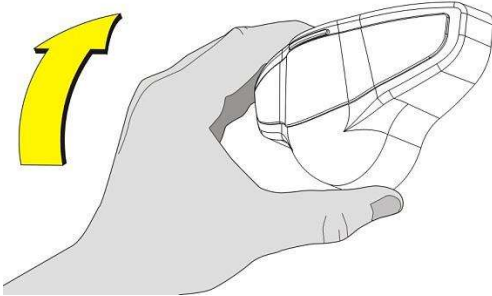


Figure 6.5 – Installing the Top Cover

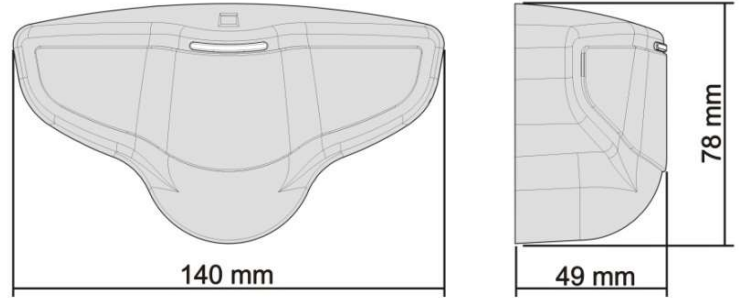


Figure 6.6 – RDR2 Dimensions (in mm)

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Manufacturer / Authorized Service
Kontal Elektronik San. Ve Tic. Ltd. Şti.
Çorapçılar Sanayi Sitesi A Blok NO: 1-2 İkitelli OSB
İSTANBUL / TÜRKİYE
+90 212 485 61 11
info@kontal.com.tr
www.kontal.com