

Nedap Way

Reader

Quick reference guide

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nedap

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1 Reader overview

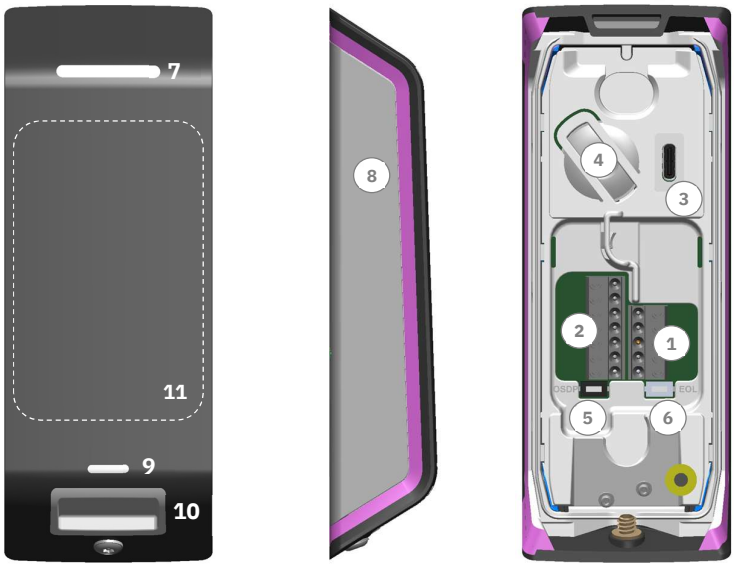


Figure 1: Way reader overview (front, side and back)

1. Power and RS485 connector (K1, 5-pin)
2. Wiegand connector (K2, 7-pin)
3. USB Type C connector
4. Speaker/buzzer
5. Protocol select switch (OSDP)
6. RS485 termination resistor select switch (EOL)
7. Feedback LED
8. Side feedback LEDs
9. Status LED
10. QR/Barcode scanner (optional)
11. RFID antenna read area + keypad (optional)

Connections:

Wiegand connector (K2, 7-pin)

K2-1	D1	DATA-1 (DATA)
K2-2	D0	DATA-0 (CLOCK)
K2-3	G	GREEN-IN
K2-4	R	RED-IN
K2-5	BZ	BUZZER-IN
K2-6	TI	TAMPER-IN
K2-7	TO	TAMPER-OUT

K1-5	⏚	SHIELD
K1-4	B	RS485-B
K1-3	A	RS485-A
K1-2	-	GND Power supply 0V
K1-1	+	VIN+ Power supply 12-27V

Wiring recommendations

Only use shielded cables.

Connect the cable shield to the metal case of the external devices.

2 Configuration

2.1 Hardware configuration

The Way reader has 2 DIP switches to select hardware configuration settings.

Error! Reference source not found. shows the DIP switch locations.

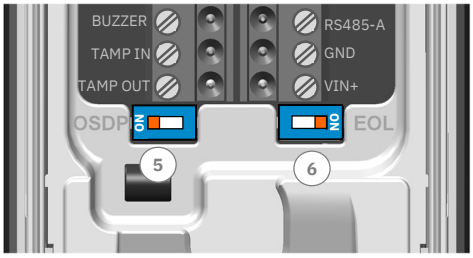


Figure 2: DIP switch locations

Protocol select switch (5)

ON = OSDP / ASCII-CRLF / Wiegand

OFF = NEDAP-Transparent

RS485 termination resistor (6)

ON = RS485 termination resistor enabled

OFF = RS485 termination resistor disabled.

2.2 Software configuration

NEDAP-Transparent

No software configuration is needed for the NEDAP-Transparent protocol.

Firmware updates are done by AEOS and AEmon.

OSDP / ASCII-CRLF / Wiegand

The Way reader can be configured easily with the reader configuration tool software.

The configuration software communicates with the reader through an RS485 or USB connection.

The software can be downloaded from our knowledge center https://www.nedapsecurity.com/.

With the configuration tool, you can change the following settings:

- Reader settings; what to read and how.
- Communication output settings.
- General settings; like buzzer and led control

Note: Save the configuration into a file for future reference or for diagnostics if you need technical assistance from Nedap or its business partners.

3 Installation

The Way reader can be mounted to any surface, including directly to metal.
For IP65 compliance, make sure that the surface is flat and water-resistant or use the Way spacer (art. no. 9229212).
Mount the reader at a height of 1 to 1.5 meter so that users can easily present their credentials.

3.1 Safety instructions

The following safety precautions should be observed during normal use, service and repair:

- The Way reader may only be installed and serviced by qualified service personnel.
- Disconnect the power supply before (dis)connecting any wires, the reader is NOT hot-swappable, so when making or changing connections, power must be switched OFF.
- The cable shield shall be connected with safety ground and the metal case of the external device(s).
- To be sure of safety, do not modify or add anything to the reader other than mentioned in this installation guide or indicated by Nedap.

3.2 Included materials

The following materials are included in the delivery:

- The Way reader incl. wall mounting bracket.
- Connectors.
- Cable tie for cable stress relief.

These materials are NOT included and should be ordered separately:

- Screws and plugs for the wall-mounting bracket.
- Cables.
- Additional accessories such as Way protection hood, Way spacer or Way cover plate.

3.3 Reader dimensions

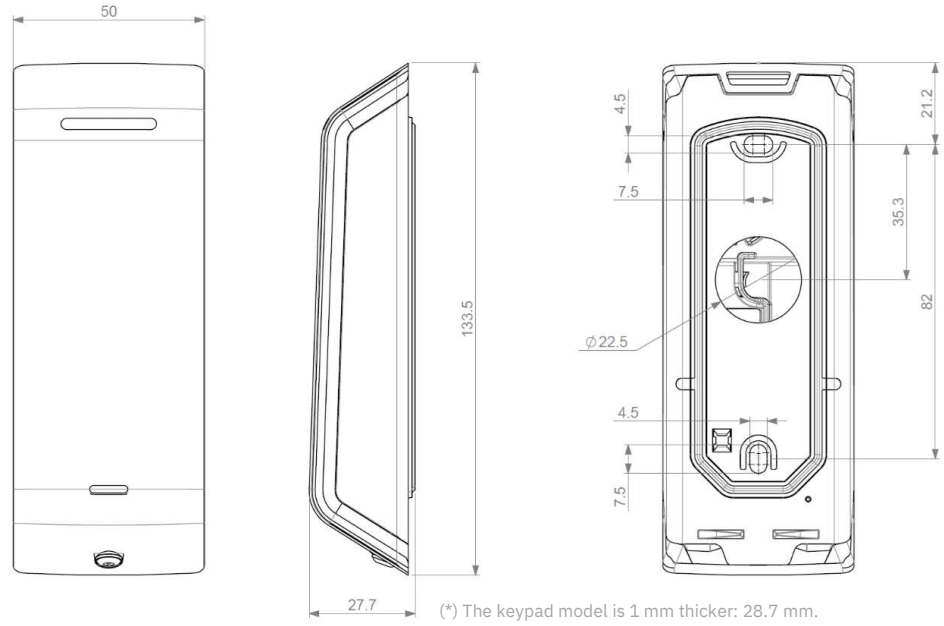


Figure 3: Way reader dimensions (mm)

3.4 Installation instructions

To install the Way reader, follow the procedure below:

1. Install the wall bracket at the required location.
2. Fix the Wall Bracket into its position using 2 screws.
3. Feed the cable through the cable entry hole.
4. Attach the individual cable wires to the connector terminals.
   For ease of assembly temporarily remove the connectors.
5. Install the cable tie to provide strain relief to the cable.



6. Push back cable overlength into the cable entry hole.
7. Hook the reader onto the top-notch of the wall bracket.
8. Close the reader and fix the assembly using the screw at the bottom.
   Use Torx T10 security screwdriver.

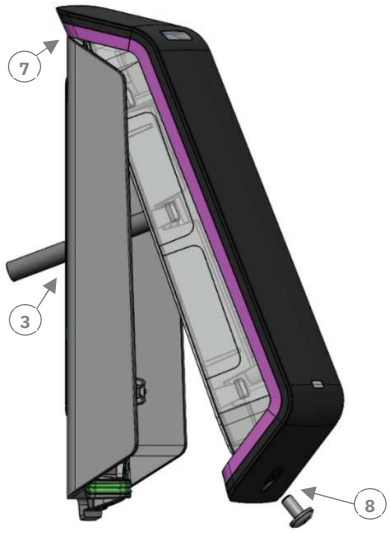


Figure 4: Way reader installation

3.5 Additional information

For more information about the Way reader and the configuration options, see portal.nedapsecurity.com where document: *Nedap Way Installation Guide* can be found.

A Technical specification

Item	Specification
Part number	9229201 Way Base | Model NVR2401B 9229215 Way Keypad | Model NVR2401K 9229207 Way QR | Model NVR2401Q
Dimensions	135 x 53 x 28 mm (5.3 x 2 x 1.1 inch)
Color	RAL7016 cover / RAL9006 bracket
Material	UL PC+ASA combining strength with superior weatherability and UV resistance
Weight	Way Base: 185gr (0.41lbs); Way Keypad: 192gr (0.42lbs); Way QR: 187gr (0.41lbs)
Outdoor rating	IP65 (approx. NEMA4x) protected against water and dust - for installation on uneven or porous surfaces combine with item 9229212 Way Spacer
Impact resistance	IK08 impact resistance, IK10 with protection hood
Operating temperature	-35°C to +66°C (-31°F to 150°F)
Storage temperature	-35°C to +66°C (-31°F to 150°F)
Relative humidity	10% ... 93% relative humidity, non-condensing
Power supply	12-27 VDC SELV The power supply or power adapter must comply with local regulations for a SELV (ES1), limited power (NEC class2, ps2) output
Power consumption	Way Base: Typical 28mA - Peak 180mA @12VDC / 16mA - 100mA @24VDC Way Keypad: Typical 28mA - Peak 210mA @12VDC / 16mA - 110mA @24VDC Way QR: Typical 57mA - Peak 240mA @12VDC / 31mA - 130mA @24VDC
Max cable length	12 VDC: 50 meters (150 ft), min AWG23/0.25mm2 24 VDC: 150 meters (500 ft), min AWG24/0.22mm2 NEDAP-Transparent: max 300m (1000ft) @960Kb/s, min AWG24/0.22mm2 OSDP: 1200m (4000 ft), depending on used baud rate, min AWG24/0.22mm2
LED indicators	Access LED + Status LED + Ambient lighting controlled separately (RGB & dimming)
Audio feedback	Audio speaker (100hz - 8kHz) with volume control
Mounting & installation	Surface mounting bracket (2 screws) - reader fixing with torx security bit (1 screw) Removable block connectors for wiring
Supported cards	Low frequency & high frequency cards Including Prox, Mifare Classic, Mifare Desfire (EV1, EV2, EV3) with proximity check
Mobile credentials	NFC; supports Nedap Mobile Credentials in Apple Wallet & Google Wallet BLE; Nedap Mobile ID Protocol available on request
Communication protocols	NEDAP-Transparent mode OSDP v2, including secure channel communication and file transfer CR/LF Wiegand
Communication interfaces	RS485, Wiegand and USB-C service interface
Tamper sensor	Contact sensor + accelerometer to signal tamper situations
Way Keypad only	Keypad to insert a PIN code (0-9), decline and approve Tactile buttons with bump on the 5 and backlight for orientation
Way QR only	Reads QR-code (QR1, QR2, QR micro) and barcodes Integrated aiming- and illumination LED (sensor triggered)
Standards	CE, FCC Consult your Nedap representative for country specific standards
Optional accessories	9229212 Way Spacer 9234918 Way Protection hood 9234896 Way Cover plate

B Disposal of equipment

The products will be disposed of by the end-user and discharge Nedap for any liability or responsibility thereof.



The WEEE symbol in Europe indicates that the relevant electrical product or battery should not be disposed of as general household waste in Europe. To ensure the correct waste treatment of the product and battery, please dispose them in accordance to any applicable local laws of requirement for disposal of electrical equipment or batteries. In so doing, you will help to conserve natural resources and improve standards of environmental protection in treatment and disposal of electrical waste (Waste Electrical and Electronic Equipment Directive WEEE 2012/19/EU).

C CE and UKCA declaration

Hereby NEDAP N.V. declares that the subject equipment is in compliance with:
For CE: Directives 2014/53/EU (Radio Equipment Directive) and 2011/65/EU (Restriction of the use of certain hazardous substances).
For UKCA: SI2017/1206 (UK Radio Equipment Regulations 2017) and SI2012/3032 (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (RoHS)).
The full text of the declaration of conformity is available at portal.nedapsecurity.com where, if applicable, also REACH information can be found.

D FCC and ISED statement

FCC ID: CGDNVR2401 and IC: 1444A-NVR2401
Contains Transmitter Module:
FCC ID: HSW2832 and IC: 4492A-2832

The full FCC and ISED Compliance statements are available in the *Nedap Way Installation Guide* at portal.nedapsecurity.com.

E Document revision

Version	Date	Comment
0.02	2026-11-05	Updated input voltage
0.01	2026-10-21	Initial version