



Nedap Way

Reader

Installation Guide

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1 Introduction

The Nedap Way reader is an advanced access control reader, designed for both indoor and outdoor environments. It can identify and authenticate users with the following methods:

- RFID cards (HF + LF)
- Mobile Wallet credential (NFC)
- Bluetooth low energy (BLE)
- Barcode (QR)
- PIN code (Keypad)

This flexibility ensures seamless and secure access to facilities in a wide range of applications.

1.1 Models

The Nedap Way reader line consists of three models, each tailored to different needs:

Part number:	Name:	Functionality:
9229201	Way Base model NVR2401B	Supports RFID (HF+LF), NFC and BLE
9229207	Way QR model NVR2401Q	Same as Base model + integrated barcode (QR-code) scanner
9229215	Way Keypad model NVR2401K	Same as Base model + integrated keypad

2 Getting started

To get the Way reader connected to the system, 4 basic steps need to be taken:

1. Mount the reader and the accessories.
For detailed mounting instructions, see chapter 3.4 Mounting instructions.
2. Configure the Way reader to match your system by setting the DIP switches in the correct position.
For more detailed information, multi-drop communication or other supported protocol configuration, see chapter 6 Reader configuration.
When using Nedap Transparent protocol go to step 4.
3. Configure the reader over USB-C with the SR reader configuration tool. *
4. Connect the Way reader to the communication interface, see chapter 5 Connections.
5. Configure the Way reader remotely via (Aeos, Aemon), see chapter 6.2 Software configuration.

*Only possible when protocol DIP switch is set to OSDP

For detailed information please continue to read this document.

3 Installation

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 Maintenance

Warning

Do not clean the reader with aggressive liquids, only with a damp microfiber cloths with castile soap.

3.4 Mounting instructions

3.4.1 Reader

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.

See the picture below for details about the dimensions.

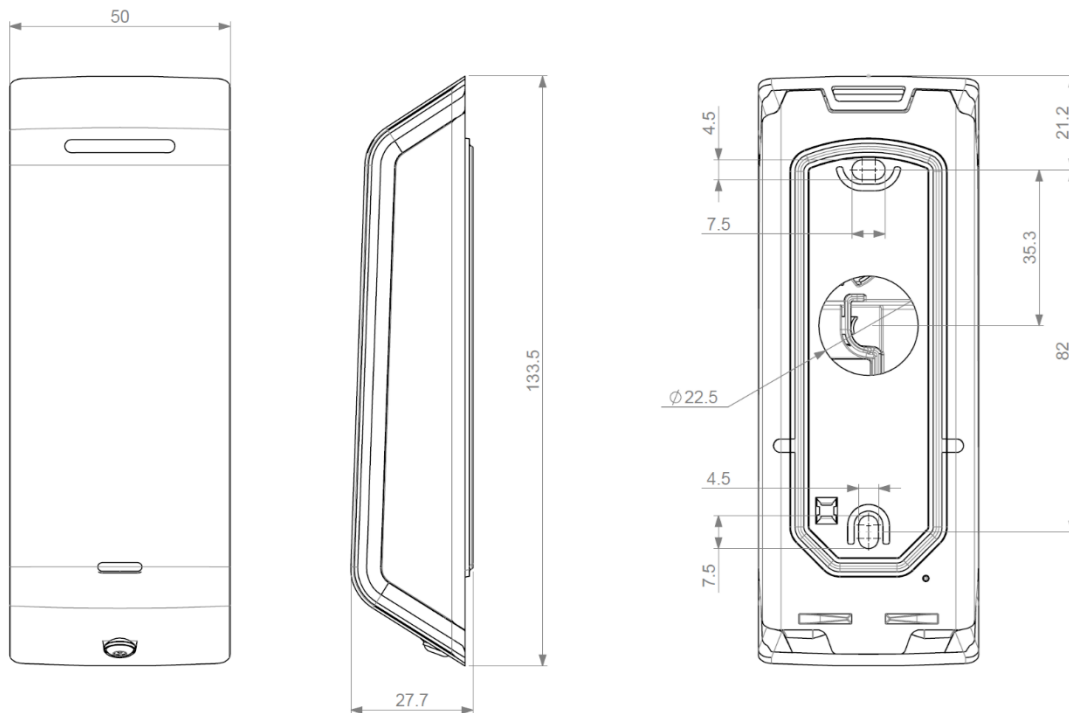


Figure 1: Way reader dimensions (mm)

NOTE: The keypad model is 1 mm thicker: 28.7 mm.

3.4.2 Mount the wall bracket

Install the wall bracket at the required location as follows.

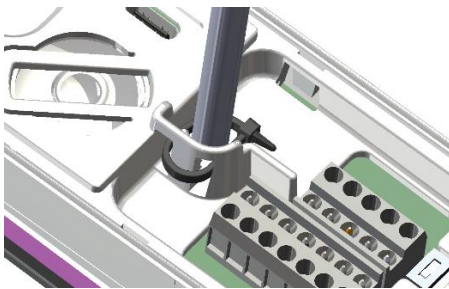
1. Make sure that the "UP"-marking on the wall bracket points upward.
2. Place the wall bracket correctly over the cable entry hole.
3. When mounting on a stone or concrete wall, drill 2 holes for the bracket fixing screws and use plugs.

NOTE: screws and plugs are not included.

4. Fix the Wall Bracket into its position using 2 screws.

Install the Way reader on the wall bracket:

1. Feed the cable through the cable entry hole.
2. Attach the individual cable wires to the correct terminals on the connectors (see chapter 4).
If necessary, remove the connectors for ease of assembly and reinsert the connectors after connecting the wires.
3. Install the cable tie to provide strain relief to the cable.



4. Push back cable overlength into the cable entry hole.
5. Attach the hook at the top of the reader onto the notch at the Wall Bracket.
6. Close the reader and fix the assembly using the torx screw (T10, with security pin) at the bottom.

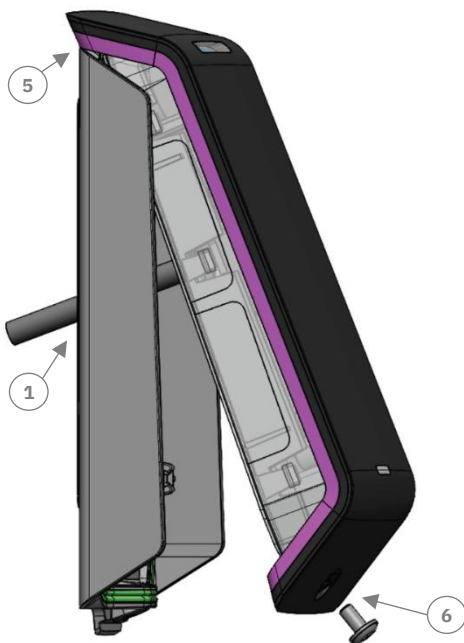


Figure 2: Way reader installation

3.4.3 Spacer

The Spacer is recommended to ensure IP65 ingress protection rating, particularly when the reader is mounted on uneven or textured surfaces. It is also recommended for surface-mounted installations where the cable is routed externally along the wall rather than through it, providing the required space for cable routing.

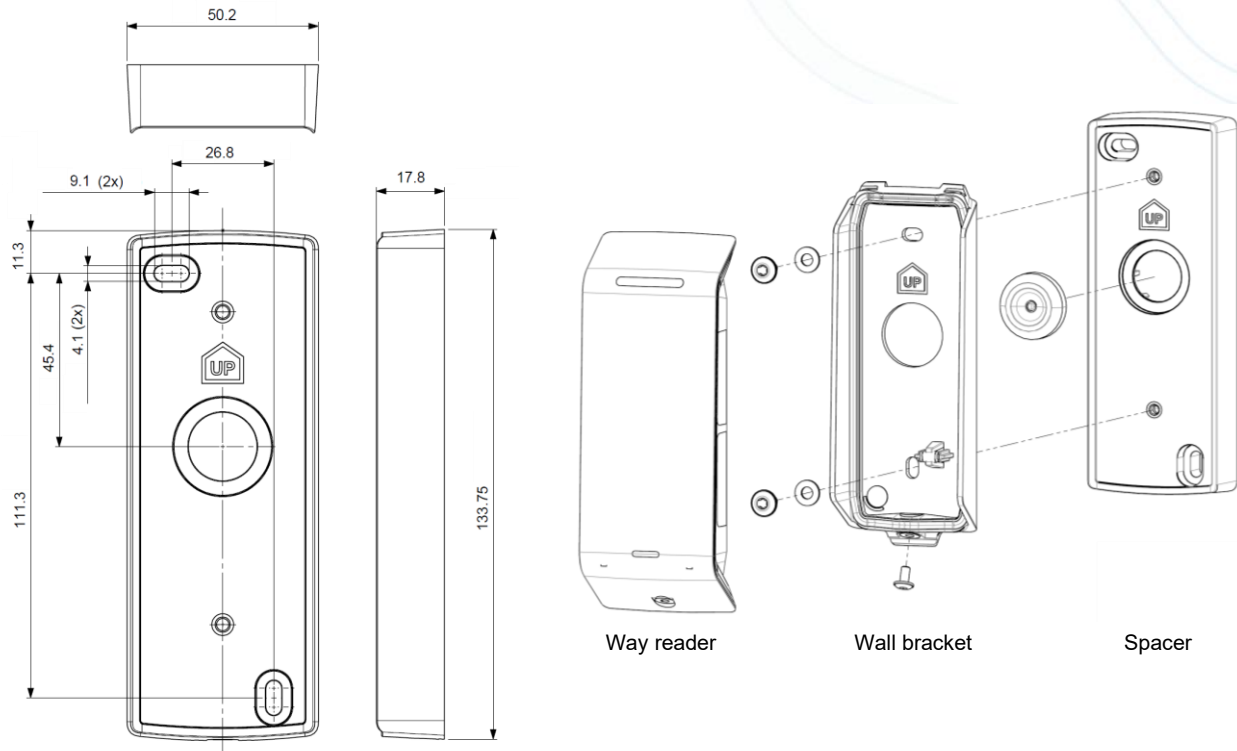


Figure 3: Spacer dimensions (in mm) and assembly overview.

Cable entry breakout (optional)

For surface mount installations there is a cable entry breakout. Use pliers to carefully break out the plastic on the bottom (or top) side of the spacer.

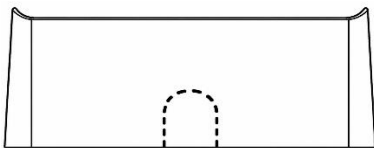


Figure 4 Spacer bottom side cable entry breakout

The Spacer must be ordered separately (art. no. 9229212).

3.4.4 Protection hood

The Protection Hood is recommended when the reader is installed in direct sunlight or when additional privacy is required to prevent unwanted observation of keypad entries. It also provides mechanical protection for the reader, achieving an IK10 impact protection rating.

Note that the Protection hood also includes the Spacer (see previous chapter).

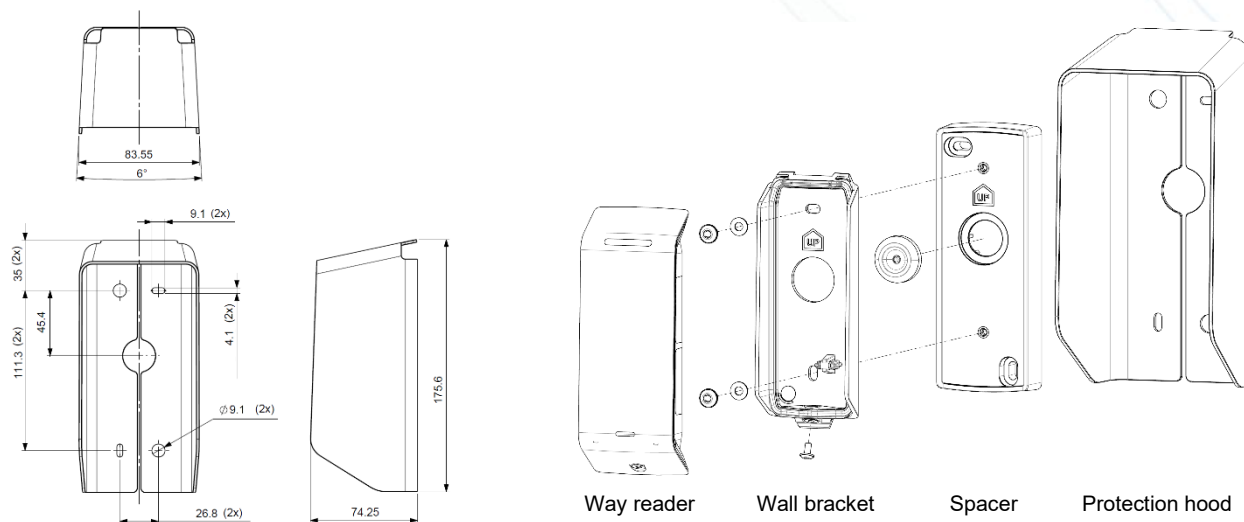


Figure 5: Protection hood dimensions (in mm) and assembly overview.

The Protection hood must be ordered separately (art. no. 9229218).

3.4.5 Cover plate

The Cover Plate is recommended when the Way reader is replaced for another reader or need to be mounted on wall boxes. The Cover Plate has predrilled holes in the backplate that matches mounting holes of other Nedap readers and several types of wall boxes. The Cover Plate reduces mounting time and covers unpainted areas on the wall when other readers are replaced by the Way reader.

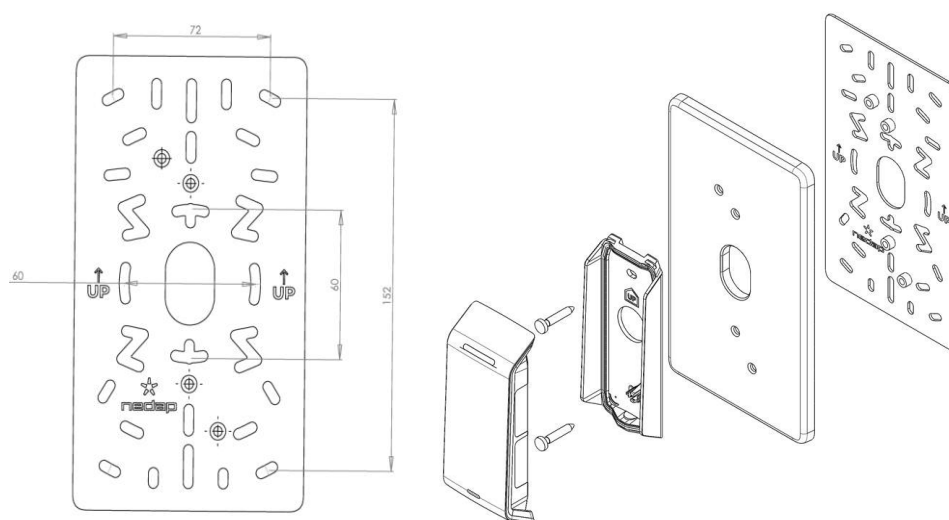


Figure 6: Cover plate dimensions (in mm) and assembly overview

4 Reader overview

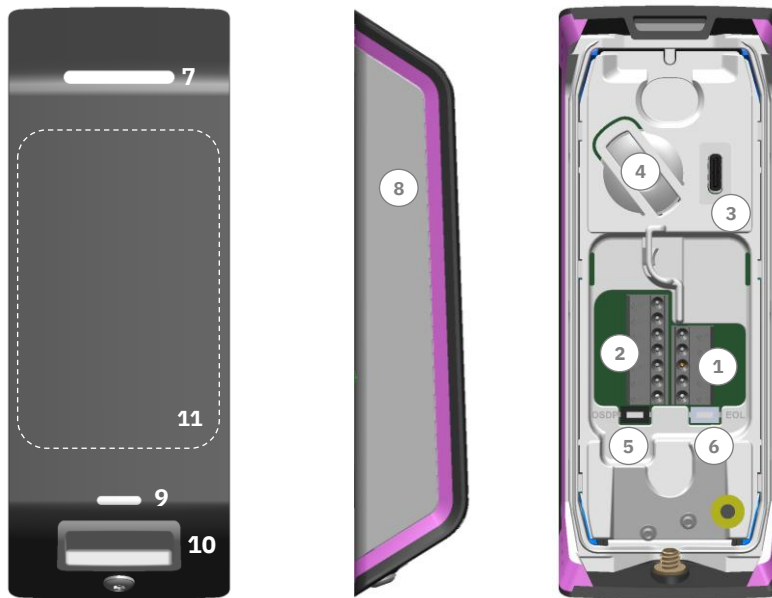


Figure 7: Way reader overview (front, side and back)

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)

5 Connections

Below connector pinning overview.

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	$\equiv$	SHIELD
K1-4	B	RS485-B
K1-3	A	RS485-A
K1-2	-	GND Power supply 0V
K1-1	+	VIN+ Power supply 10-27V

Wiring recommendations

Only use shielded cables.

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

5.1 Power supply

Connections

K1-1	+	VIN+ Power supply 10-27V (measured at reader)
K1-2	-	GND Power supply 0V
K1-5	$\equiv$	SHIELD

Power supply wiring

Maximum cable length:

- 12VDC: 50 meters (150 ft), min AWG23/0.25mm².
- 24VDC: 150 meters (500 ft), min AWG24/0.22mm².

Maximum current consumption:

	12VDC	24VDC
Base	180 mA	100 mA
Keypad	210 mA	110 mA
QR	240 mA	130 mA

Typical current consumption *:

	12VDC	24VDC
Base	28 mA	16 mA
Keypad	28 mA	16 mA
QR	57 mA	31 mA

*Depending on reader firmware and configuration.

Typical current measured running idle with Feedback LED and Side feedback LEDs on, waiting for HF card and QR code (optional). LF, BLE, audio, Status LED and Keypad LEDs (optional), QR LEDs (optional) are off.

Power-on LED

The feedback LED lights up red when power is applied to the reader.

After the reader has started up, the feedback LED goes off and operates as it has been programmed (see chapter 7). If the reader cannot start, the feedback LED remains red.

5.2 Communication

5.2.1 RS485

The Way reader has a RS485 interface for communication with a host system or to configure the reader settings. RS485 is a 2-wire half-duplex serial communication interface using balanced lines.

The following protocols are available:

- NEDAP-TR (transparent 3.x.x)
- OSDP v2
- ASCII-CRLF

Connections

K1-3	A	RS485-A
K1-4	B	RS485-B

Notes

- Use shielded twisted pair cable, Characteristic impedance 100-120 Ohm, min AWG24/0.22mm².
- Maximum RS485 cable length:
 - For NEDAP-Transparent: 300 meters / 1000 ft.
 - For other protocols: 1200 meters / 4000 ft, depending on used baudrate.

Communication protocol

See protocol select switch in chapter 6.1.

RS485 point-to-point communication

Point-to-point communication means that there is only 1 reader connected to the host. See picture below.

Enable the termination resistors at both ends of the communication line (host-side and reader-side).

- ❖ Only reader → enable the termination resistor (switch RS485-EOL = ON). See chapter 6.1.

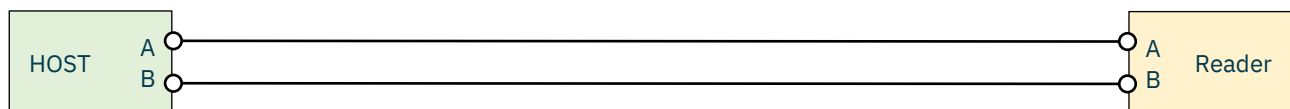


Figure 8: RS485 point-to-point communication

RS485 multi-drop communication

Multi-drop communication means that there is more than one reader connected to the host. (>1).

For example, with an addressable communication protocol such as OSDP.

Enable termination resistors at both ends of the communication line, but not in between.

- ❖ Last reader → enable the termination resistor (switch RS485-EOL = ON). See chapter 6.1.
- ❖ Other readers → disable the termination resistor (switch RS485-EOL = OFF). See chapter 6.1.

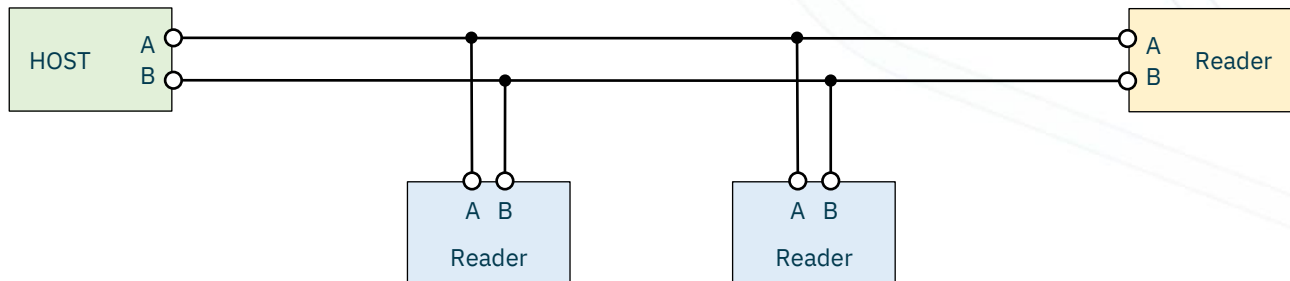


Figure 9: RS485 multi-drop communication

5.2.2 USB

The Way reader has a USB interface that you can use for service, installation and firmware upgrades.

The USB-C connector is located on the rear of the device.

To reach it, unscrew the bottom screw and lift the reader away from the Wall Bracket. This procedure ensures that the tamper switch always detects attempts to access the USB port, so you can easily monitor any unauthorized modifications to the reader settings.

The USB port can fully power the reader, which is especially convenient during installation and configuration.

Notes

- Max. USB cable length: 2 m.
- Use shielded USB cable only.

5.2.3 Wiegand

The Wiegand and Magstripe ISO7811/2 (clock & data) interface share the same connections. This means that only Wiegand or Magstripe can be used and not both simultaneously.

Wiegand connections

K2-1	D1	DATA-1
K2-2	D0	DATA-0

Notes

- Use shielded cable, min AWG22/0.34mm².
- Maximum cable length 150 meters (500 ft).

Message format

The Wiegand format is configurable.

Wiegand timing

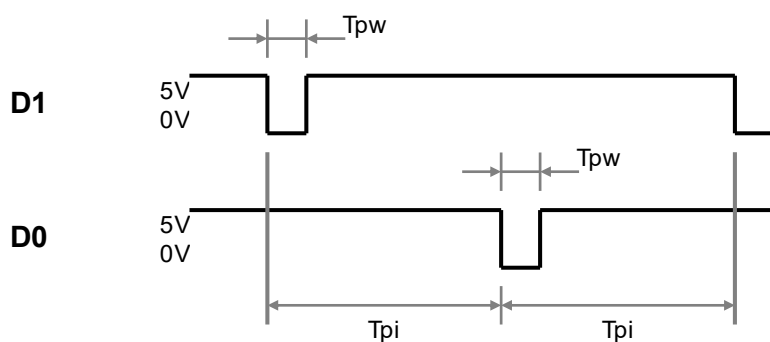


Figure 10: Wiegand protocol timing

Timing constants

Tpi	Pulse interval time	1ms
Tpw	Pulse width time	50μs

5.2.4 Magstripe ISO7811/2

The Magstripe ISO7811/2 (clock & data) and Wiegand interface share the same connections. This means that only Wiegand or Magstripe can be used and not both simultaneously.

Magstripe connections

K2-1	D1	DATA
K2-2	D0	CLOCK

Message format

The Magstripe output format is configurable.

Magstripe timing

The figure below shows the timing for one magstripe numeric character.

Each character contains 5 bits: 4 data bits (lsb first) and 1 parity bit (odd).

See ISO7811/2 documentation for more details about encoding and character set.

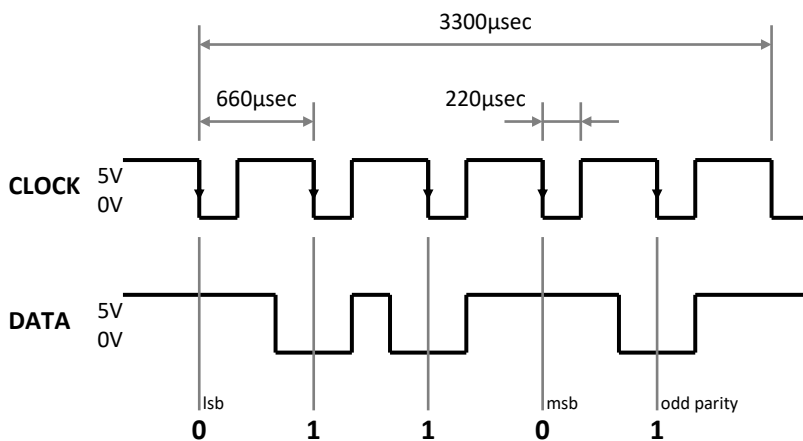


Figure 11: Magstripe (clock and data) character timing

Timing constants

Clock period 660µs

Clock high 440µs

Clock low 220µs

Data pre-amble 16 clock periods

Data post-amble 16 clock periods

5.3 Inputs

The Way reader has 3 digital inputs (active low).

Connect to ground to activate the input. Leave unconnected otherwise.

Connections

K2-3	G	GREEN-IN
K2-4	R	RED-IN
K2-5	BZ	BUZZER-IN

Input function

The input function is dependent upon the selected communication protocol.

1. NEDAP-TR

The digital inputs are not used.

2. OSDP

The digital inputs are general purpose inputs.

Upon status change, the reader sends an input status report message OSDP_ISTATR.

You can request the current input status with the OSDP_ISTAT message.

3. Wiegand / ASCII-CRLF

The digital inputs can be used to control the LED and buzzer.

See details about LED/buzzer control in chapter 7.

5.4 Tamper switch

Tamper detection works with both an accelerometer and a magnet and reed-contact.

The magnet and reed-contact provide tamper indication even when the reader is not powered. This contact may be connected to an external alarm system. The contacts are normally closed when the reader is in place. Tamper switches of multiple readers can be connected in series.

Connections

K2-6	TI	TAMPER-IN
K2-7	TO	TAMPER-OUT

Contact ratings

Maximum current 50 mA (0.5 Volt voltage drop)

Maximum switching voltage +24 VDC

Notes

- OSDP: The tamper detection status is reported through OSDP_LSTATR event messages.

6 Reader configuration

6.1 Hardware configuration

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

Figure 12 shows the DIP switch locations.

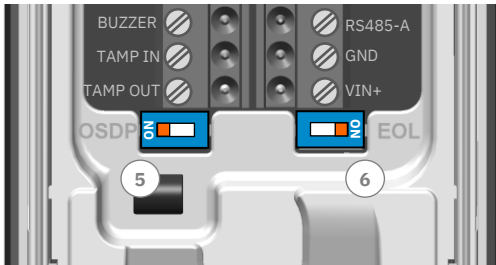


Figure 12: DIP switch locations

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.

See for more details about RS485 wiring chapter 5.2.1.

6.2 Software configuration

NEDAP-Transparent

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

Firmware updates are done by AEOS and AEmon.

OSDP / ASCII-CRLF / Wiegand

The Way reader can be configured easily with the configuration 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:

- General settings. (such as??)
- Reader settings; what to read and how.
- Communication output settings.

Some settings can be complicated. Only change settings if you know what they do.

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

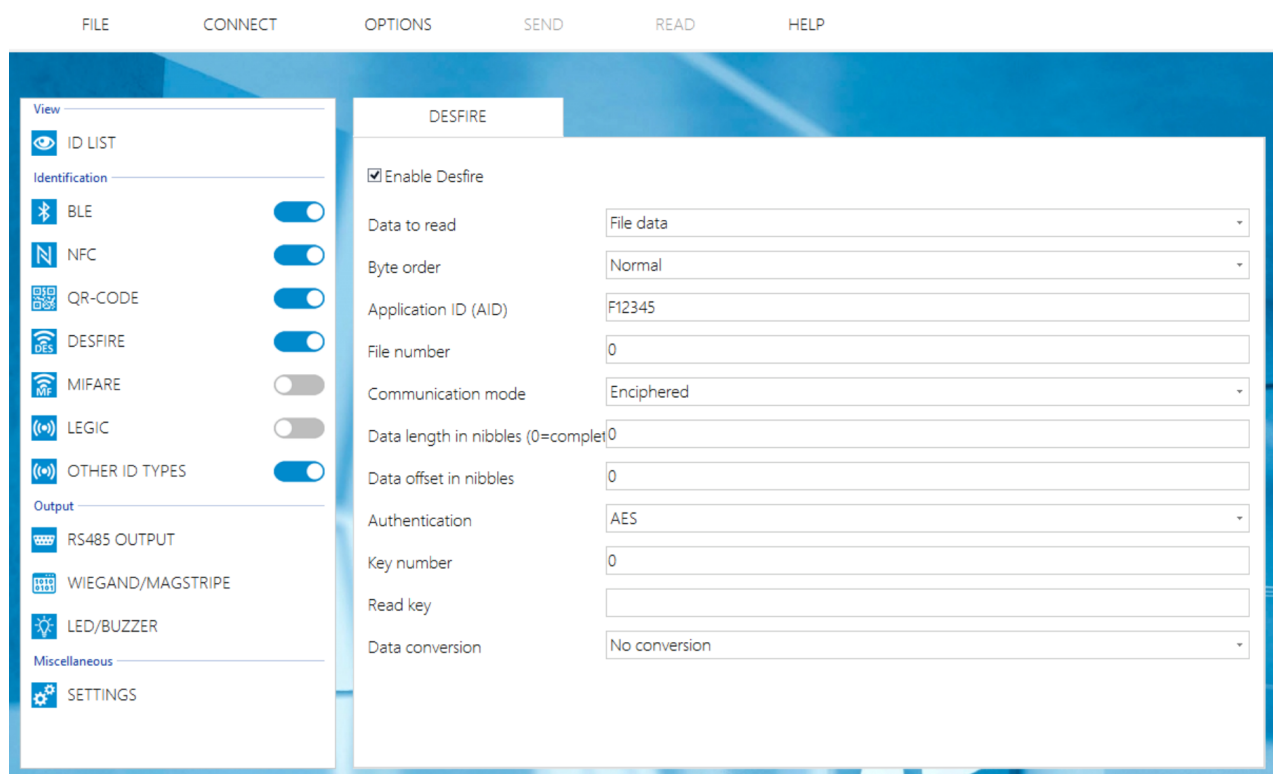


Figure 13: configuration software

6.2.1 Configuration reset via DIP switch

In case the reader configuration default, clearing all previous set configurations like TLS certificates a configuration reset can be performed. To perform a configuration reset, the following steps need to be followed to clear Nedap-TR configurations:

- Set the protocol switch to OSDP
- Wait for 3 seconds while the reader is powered
- The Nedap-TR settings are cleared
- Set the protocol switch back to Nedap-TR

6.3 Firmware update

When the reader configuration software is connected to a reader, it automatically checks the firmware version of the reader. If necessary, the software recommends to do a firmware update.

The software includes the newest reader firmware at the time of downloading. For that reason, download the configuration software again/check if there is a new version of the software available before you configure a reader with it.

Firmware update procedure

1. Start the reader configuration software.
2. Connect with the Way reader.
3. Go to FIRMWARE UPDATE.
4. Select the firmware (for example, Way reader firmware v1.1.1).
5. Click Update and wait until the update has completed.

When the firmware update is completed, the software reconnects to the reader again.

7 LED/Buzzer

7.1 User feedback

The Way reader has the following audio/visual feedback indicators:

- Feedback RGB LED (top) + Side feedback RGB LEDs
- Status RGB LED (bottom)
- Buzzer

NEDAP-Transparent

The LEDs and buzzer are controlled by the access control system.

The feedback behavior and colors can be configured with Aemon.

OSDP / ASCII-CRLF / Wiegand

In OSDP operating mode, the LED/buzzer control can be either automatic by the reader upon identification or remotely by access control system using the digital inputs or (OSDP) serial communication.

Automatic mode

The Way reader automatically sets the LED color and optionally beeps upon identification.

During stand-by, the Feedback LED is BLUE and upon identification it switches to GREEN.

These colors can be changed with the NVITE configuration software.

Remote (inputs)

The LED and buzzer can be controlled remotely by activating digital inputs (active low).

- Inputs GREEN-IN and RED-IN set the LED color. The combination of these 2 inputs allows 4 different colors (selected by the configuration software): GREEN, RED, BLUE, YELLOW, CYAN, PINK, WHITE, or OFF.
- Input BUZZER-IN controls the buzzer.

Serial communication

The access control panel controls the LED and buzzer using serial communication (for example OSDP_LED command).

7.2 QR LEDs

The QR model has 2 additional LEDs.

- Aiming beam Helps the user to place the barcode in the correct position.
- Illumination LED For reading barcodes in the dark.

The aiming beam and illumination LEDs can be set to these modes:

- Always on.
- Automatically on upon movement.
- Always-off.

7.3 Keypad LEDs

The Keypad model has LEDs that illuminate the keys. They assist the user to find the keys and inform which keys can be pressed.

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
Outdoor rating	IP65 (approx. NEMA4x) protected against water and dust
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)
Power supply	12-24 VDC
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 AWG23/0.25mm ² 24 VDC: 150 meters (500 ft), min AWG24/0.22mm ²
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, UL294 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

FCC and ISED Compliance statement

This device complies with part 15 of the FCC Rules and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les changements ou modifications n'ayant pas été expressément approuvés par la partie responsable de la conformité peuvent faire perdre à l'utilisateur l'autorisation de faire fonctionner le matériel.

FCC and ISED Radiation Exposure Statement

This equipment complies with FCC (OET Bulletin 65) and Canadian radiation exposure limits set forth in RSS-102 for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 3 mm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme à CNR-102 limites énoncées pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 3 mm entre le radiateur et votre corps.

ISED EMC Declaration

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de Classe B est conforme à la norme Canadienne ICES-003.

FCC Information to the user

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: To ensure compliance with FCC regulations, use only the shielded interface cables provided with the product, or additional specified components or accessories that can be used with the installation of the product.

E Document revision

Version	Date	Comment
0.03	2026-08-03	Complete rewrite
0.02	2026-07-13	Initial preliminary version