

IP65 125KHz Vandal Resistant Networkable Keypad and Proximity Reader

NKP-VRS2



User Manual

Please read these instructions carefully before operating the unit
and keep for further reference.

1.0 Introduction.....	3
1.1 Product Features.....	3
1.2 Product Dimensions	3
1.3 Specification.....	3
2.0 Wiring	4
3.0 Access Control System.....	6
4.0 Attention	7

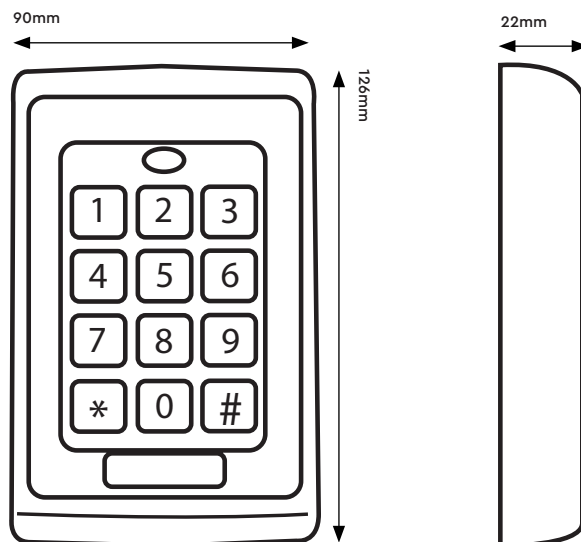
1.0 Introduction

The Genie NKP-VRS2 is a vandal resistant 125KHz keypad reader. The keypad comes with blue backlit buttons and a status LED as well as being compatible with Genie Sphinx access control system.

1.1 Product Features

- Supports pin and card formats
- Vandal resistant
- Blue backlit design
- Optical tamper detection technology
- 6 wire shielded interface cable
- 8 programmable pin transmission modes
- Supports wiegand 26 bit transmission formats

1.2 Product Dimensions



1.3 Specification

Maximum Read Range	50mm
Modulation	125KHz
Compatible Cards	26-bit wiegand compatible
IP Rating	IP65
Operating Voltage	DC7-12V
Operating Current	≤100mA
Standby Current	≤50mA
Working Temperature	-20°C to 75°C
Operating Humidity	5 to 95%
LED Control Input	Dry contact, normally open
Dimensions	126 × 90 × 22 mm
Weight	490 g

2.0 Wiring

No.	Colour	Function	Description
1	Red	VCC	Power Supply: +7V~+15VDC
2	Blue	LED	The LED indicator flashes when swiping the card. Short to GND, LED will always on
3	Yellow	Buzzer	When swiping a card, the buzzer beeps once. When shorted to GND, the buzzer will always beep
4	Green	Data0	Data 0
5	White	Data1	Data 1
6	Black	GND	GND
7	Grey	W26/34 SEL	Disconnected: WG26 Output Shorted to GND is WG34 format
8	Purple	OUT	Tamper output, available in low level
9	Brown	NC	N/A
10	Orange	NC	N/A

Notes:

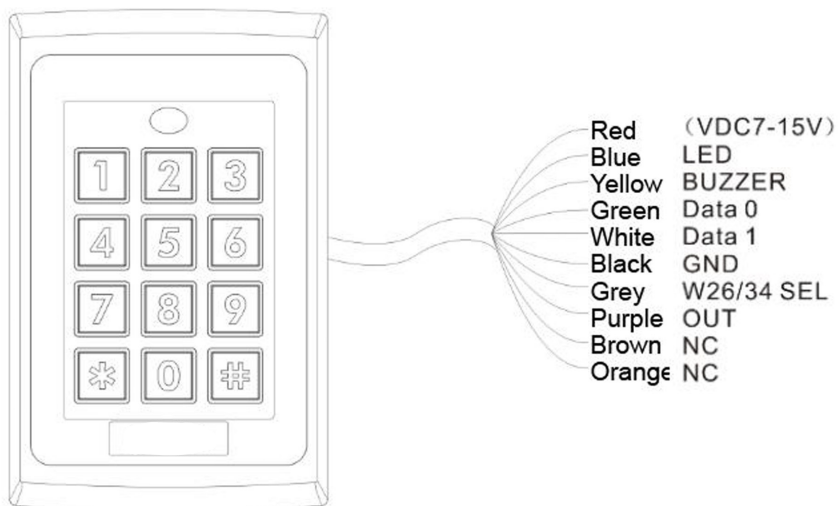
- The connection between the reader and controller should use 8 wires STP cable. The diameter should be over 24 AWG (0.206mm²). The distance should be less than 100M.
- To transmit the data successfully, the Data 0 and Data 1 should use the same pair, e.g. Green and Green/white (pair of wires in the cable).
- When the transmitting distance is over 60M, the Data 0 and Data 1 wires should be paralleled up with unused pairs to reduce the resistance. For example, if we have 4 free wires, then 2 should be shortened to Data0 and 2 should be shortened to Data1.
- Do not use the same power supply source for the door lock and the reader to avoid EMF (electromotive force) interference.

Wiegand 26

No.	Colour	Function	Description
1	Black	GND	GND
3	Blue	LED	The LED indicator flashes when swiping the card. Short to GND, LED will always on.
4	Yellow	Buzzer	When swiping a card, the buzzer beeps once. When shorted to GND, the buzzer will always beep.
5	Green	Data0 (Data)	Data 0
6	White	Data1 (Clock)	Data 1
8	Red	VCC	Power supply: +7V~+15VDC

Wiegand 34

No.	Colour	Function	Description
1	Black	GND	GND
2	Grey		Shorted to GND is WG34 format
3	Blue	LED	The LED indicator flashes when swiping the card. Short to GND, LED will always on.
4	Yellow	Buzzer	When swiping a card, the buzzer beeps once. When shorted to GND, the buzzer will always beep.
5	Green	Data0 (Data)	Data 0
6	White	Data1 (Clock)	Data 1
8	Red	VCC	Power supply: +7V~+15VDC



Attention: Only one output format can be selected.

3.0 Access Control System

Access control system provides basic password opening methods, card + user password, serial number + user password, duress password, administrator password. (Before debugging, please refer to the relevant software instructions to set the relevant parameters in the software, and then do the password opening debugging)

1. Card + User Password

1. Swipe user card
2. Input the four-digit password on keyboard to open the door
3. The system will detect the access permission to open the door, otherwise it will not be processed

2. Serial number + User Password

1. Press*
2. Input the four-digit serial number on the keyboard
3. Input the four-digit password on keyboard to open the door
4. Press #
5. The system will detect the access permission to open the door, otherwise it will not be processed.

3. Duress Password

When the user is duressed, the swiping the card and input the four-digit duress password will open the door.

1. Swipe user card
2. Input the four-digit duress password on keyboard to open the door
3. The system will detect the access permission to open the door, otherwise it will not be processed.

4. Administrator Password

After setting the administrator Password, in any state, press * + 8 digit password + # can open the door.

1. Press*
2. Input the eight-digit password on keyboard to open the door
3. Press #
4. The system will detect the access permission to open the door, otherwise it will not be
5. processed.

4.0 Attention

1. Read and understand all instructions carefully.
2. Follow the warnings and instructions marked on the product.
3. The tamper adopts photoelectric switch, and the back side cannot transmit light during installation.
4. The power supply of the product must be carried out in accordance with the instructions on the product label. If you are not sure about the type of power supply in your area, please consult your local distributor or power company.
5. Do not embed any objects in the gaps of the product, so as not to touch the power point or short-circuit some parts, which may cause fire and electric shock. Do not spill any liquid on the product.
6. To avoid the risk of electric shock, do not disassemble the product without authorisation. If service or repair is required, please send the product to authorized maintenance personnel. Opening the panel may cause you to get an electric shock or cause other injuries. Incorrect disassembly or assembly may cause electric shock in future applications.
7. If you need to remove the product from the wall in the following situations, you must ask professional maintenance personnel to do it;
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the product.
 - c. If the product cannot be operated normally according to the operation manual.
 - d. If the product performance shows a significant change.

Sales +44(0)1707 330541

Enquiries sales@genieproducts.co.uk

Website www.genieproducts.co.uk

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