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Access Control Proximity Reader

PN10

User Manual

Please read the manual carefully before installing this unit

1. Packing list

Name	Quantity	Remarks
Proximity reader	1	PN10
Infrared remote	1	
Admin add card	1	
Admin delete card	1	
User manual	1	
Self-tapping screws	2	Φ3.5mm×27mm, used for fixing
Screw driver	1	Star

Please ensure that all the above contents are correct. If any are missing please notify us immediately

2. Description

The PN10 is a waterproof standalone or Wiegand access control proximity reader. It uses an advanced microprocessor with a high capacity flash memory for up to 10,000 users. Users can be added and deleted via admin cards making it very simple to operate. The infrared remote control allows settings to be quickly changed, including altering the relay time. It has low power consumption and door release button connection, all these make it convenient, safe and reliable.

3. Features

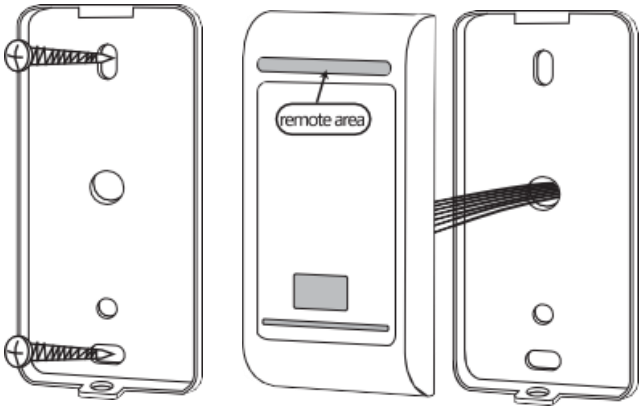
- Zinc alloy, anti-vandal shell
- Waterproof, conforms to IP68
- Supplied with a 1 metre cable
- High capacity memory, 10,000 users
- Wiegand 26 output and Wiegand 26 input
- Besides standalone, it can connect to a controller as a slave reader
- Infrared remote control and manager cards for programming
- Red, yellow and green LEDs display the working status
- Adjustable door unlocking time
- Fast operating speed

4. Specification

Operating voltage	12-24Vdc
User capacity	10,000
Static consumption	<35mA
Operating consumption	<100mA
Card reading distance	3-5cm
Frequency	125KHz
Operating temperature	-35 to 60^{o}C
Operating humidity	0% to 95%
Lock output load	1A
Waterproof	IP68
Dimensions	115 x 56 x 22 mm

5. Installation

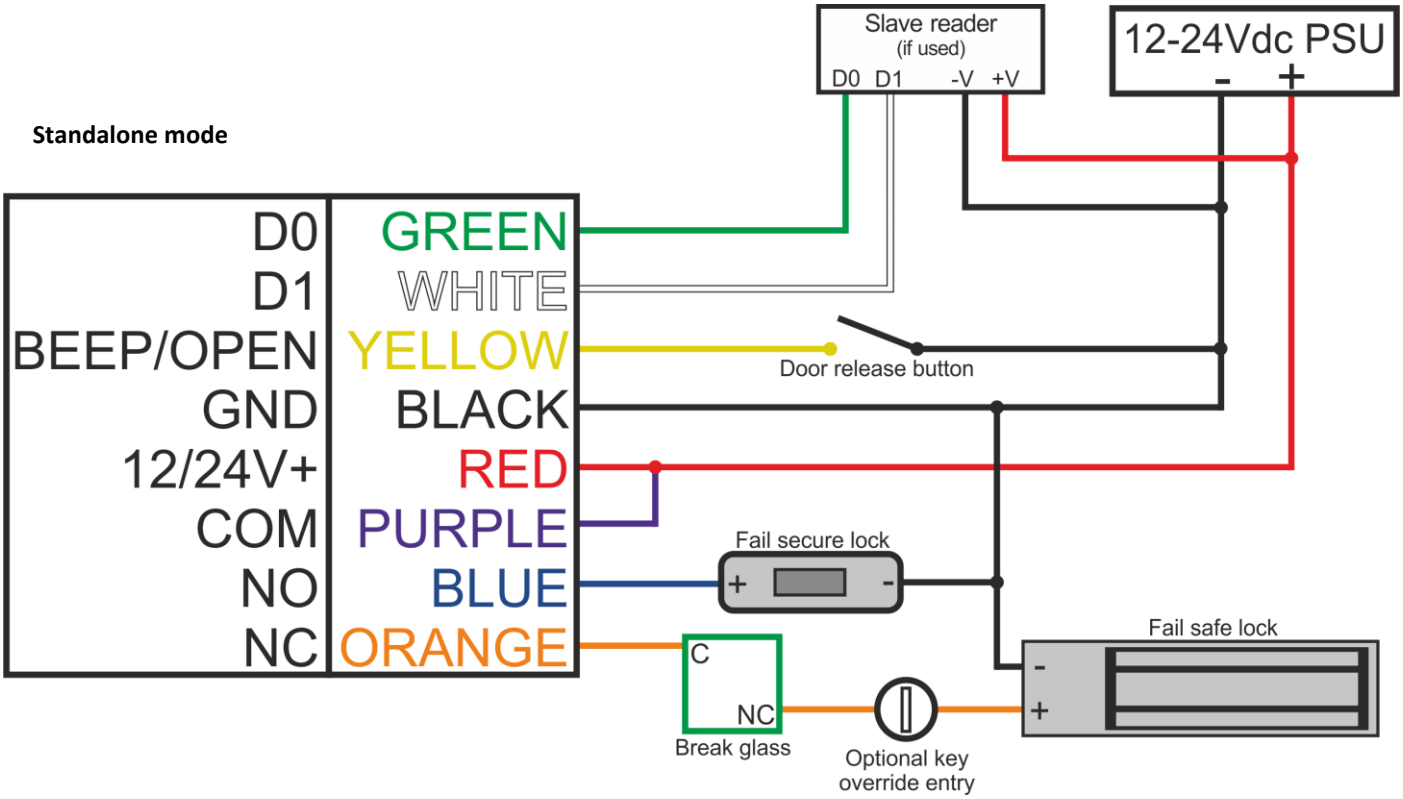
- Remove back plate from the reader using security driver supplied, and use it (or the template) to mark the two fixing holes and one cable hole.
- Drill the cable and fixing holes.
- Secure back plate to the wall using fixing screws provided.
- Thread cable through the hole and connect wires needed, wrap unused wires with insulating tape to prevent short circuit.
- Fit the reader into the back plate and replace retaining screw.



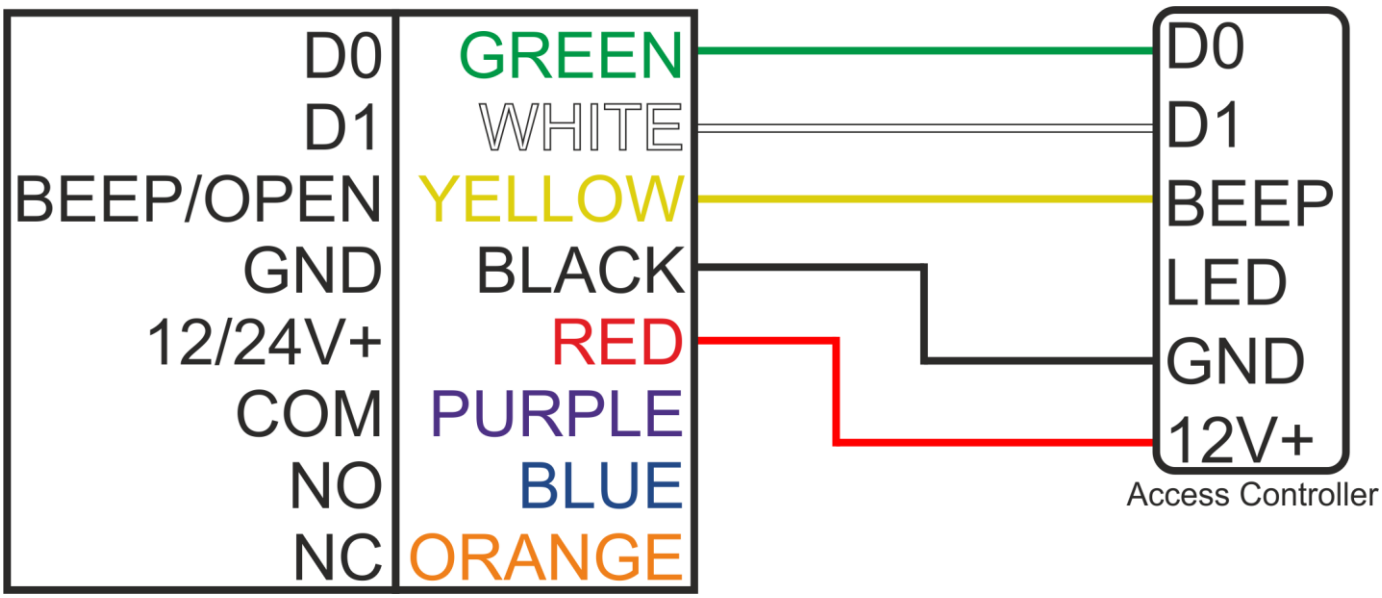
6. Wiring

Colour	Function	Description
Green	D0	Wiegand input D0 (Wiegand output in reader mode)
White	D1	Wiegand input D1 (Wiegand output in reader mode)
Yellow	OPEN/BEEP	Exit button one end (Beeper input reader mode)
Red	12/24V +	12/24V + DC regulated power input
Black	GND	12/24V – DC regulated power input
Blue	NO	Relay normally open
Purple	COM	Relay common
Orange	NC	Relay normally closed

Standalone mode



Reader mode



7. Factory reset

Turn off power to the unit. Press and hold the exit button whilst powering the unit up. After hearing 2 beeps release the exit button. The admin code has now been reset to 999999, and factory default settings are restored.

Note: User data will not be deleted when performing a factory reset.

8. Sound & light indication

Operation	LED indicator	Buzzer
Standby	Red	
Operation successful	Green	One Long beep
Operation failed		Three short beeps
Admin card enter programming		Two short beeps
Admin card exit programming		One long beep
Press IR remote key		One short beep
Press * key		One long beep
On process of reading multi user cards	Red flashing slowly	
Enter programming mode	Red flashing slowly	
Enter setting status	Yellow	
Door unlocked	Green	
Buzzer alarm	Red flashing quickly	Alarming

9. Programming

9.1 Add and delete users by admin cards

It is highly advised to make a note of the User ID number and card number to allow for individual deletion of cards in the future, see the last page.

Add users

Read admin add card Read 1st user card Read 2nd user card … Read admin add card

Note: The admin add card is used to add cards continuously and quickly. When you read the admin add card for the first time you will hear 2 short beeps and the indicator light will turn yellow, this means you have entered programming mode. When you read the admin add card the second time, you will hear one long beep and the indicator light will turn red, meaning you have exited programming mode.

Delete users

Read admin delete card Read 1st user card Read 2nd user card … Read admin delete card

Note: The admin delete card is used to delete cards continuously and quickly. When you read the admin delete card for the first time you will hear 2 short beeps and the indicator light will turn yellow, this means you have entered programming mode. When you read the admin delete card the second time, you will hear one long beep and the indicator light will turn red, meaning you have exited programming mode.

9.2 Add and delete users by remote control

To enter programming mode	*** Admin code #** 999999 is default admin code
To exit programming mode	***** Must be pressed after completing programming
Note that to undertake the following programming the administrator must be logged in	
To add a card user (Method 1) User ID number is automatically generated.	**1 Read card #** Cards can be added continuously without exiting programming mode
To add a card user (Method 2) In this method a user ID number is allocated to a card. User ID number is any number between 1 & 10,000. Only one user ID number per card.	**1 User ID number # Read card #** Cards can be added continuously without exiting programming mode
To add a card user (Method 3) In this method the card is added by the 8 or 10 digit card number printed on the card. User ID number is auto generated.	**1 Card number #** Cards can be added continuously without exiting programming mode
To add a card user (Method 4) In this method a user ID number is allocated to a card number. Only one user ID number per card.	**1 User ID number # Card number #** Cards can be added continuously without exiting programming mode
To add sequential card numbers	**7 User ID number # First Card number # Card quantity #**
To delete a card user by card	**2 Read card #** Cards can be deleted continuously without exiting programming mode
To delete a card user by user ID number This option can be used when someone has lost their card	**2 User ID number #** Cards can be deleted continuously without exiting programming mode
To delete a card user by card number This option can be used when someone has lost their card	**2 Card number #** Cards can be deleted continuously without exiting programming mode
To delete ALL users	**2 0000 #**

9.3 Admin settings

To enter programming mode	*** Admin code #** 999999 is default admin code
To exit programming mode	***** Must be pressed after completing programming
Note that to undertake the following programming the administrator must be logged in	
To change the admin code	**0 New code # New code #** The admin code is any 6 digits
To set admin add card	**1 10001 # Read card**
To set admin delete card	**1 10002 # Read card**
To delete admin add card	**2 10001 #**
To delete admin delete card	**2 10002 #**
To set the working mode Standalone access control mode (default) Reader mode Set Wiegand bits output	 **3 11 #** When a valid card is read, relay pulses for the time set in section 9.4 **3 13 #** If connecting to an access controller **3 (26-58) #** (Default 26 bits)

9.4 Advanced settings

To enter programming mode	*** Admin code #** 999999 is default master code
To exit programming mode	***** Must be pressed after completing programming
Note that to undertake the following programming the administrator must be logged in	
To set multi card access Entry by single card (default) Entry by multiple cards	 **3 0 #** (default) **3 2-10 #** 2-10 is the number of cards that must be read one after another to gain access. Cards must be read within 5 seconds.
To set the relay pulse time	**4 0-300 #** 0-300 is the time in seconds the relay switches for when a valid card(s) is read. 0 equals 50mS
To set the relay to latching mode	**3 12 #** Read valid card, relay switches. Read valid card again, relay switches back
Device lockout and alarm settings Normal mode (default) Alarm mode Locked out mode	 **8 0 #** No alarm or lockout (default mode) **8 1 #** The built-in buzzer will alarm if 5 consecutive invalid cards are read **8 2 #** The device will be locked out for 10 minutes if 5 consecutive invalid cards are read
To set alarm time	**5 0-99 #** 0-99 is the alarm time in minutes (default = 0)
Light indicator setting Disable red light indicator Enable red light indicator (default)	 **8 3 #** Red LED indicator off in standby mode **8 4 #** Red LED indicator on in standby mode (default)
Buzzer setting Disable buzzer Enable buzzer (default)	 **8 5 #** No buzzer when card read **8 6 #** Buzzer sounds when card read (default)

10. User operation

To open the door:
Read valid card

To turn off alarm:
Read valid card or Enter admin code#

11. Issue record

It is highly advised to make a note of the User ID number and card number to allow for individual deletion in the future. It is always best to keep a digital copy of the issue record, especially on installations with over 10 users.

Site		Door location	

Card/fob number	User ID number	User name	Issue date