

Proximity Reader

User Manual

1. Introduction

It is a slim Wiegand output proximity reader compatible with any Wiegand input controller.

The reader is fully potted, and can function at extreme temperatures (-40°C~60°C), which allows it is capable to be mounted either indoor or outdoor.

EM Version: Read 125KHz EM card

EM+HID Version: Read 125KHz EM + HID cards

Mifare Version: Read 13.56MHz Mifare card

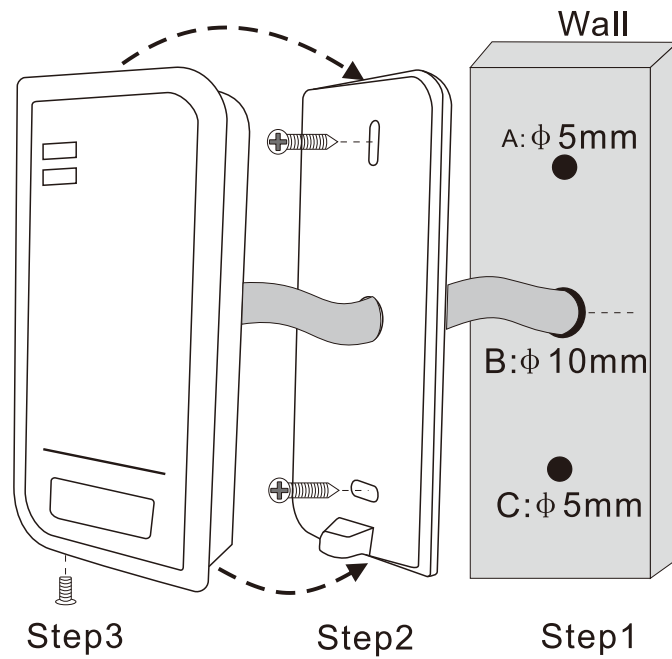
(Please use the appropriate card according to your device version)

2. Specifications

Version	EM	EM+HID	Mifare
Frequency	125KHz	125KHz	13.56MHz
Card Type	EM	EM+HID	Mifare
Operation Voltage	9~18V DC		
Standby Current	≤25mA		
Read Range	0~6cm		
Wiegand Output	EM:26bits / MF:34bits(default) 26~44, 56, 58bits available upon request		
Operating Temperature	-40°C~60°C (-40°F~140°F)		
Operating Humidity	10% to 95% RH		
Color	Black (White optional)		
Index of Protection	IP66		
Dimension(H x W x T)	103 x 48 x 20 mm		
Net Weight	100g		
Shipment Weight	150g		

3. Installation

- Drill 2 holes (A, C) on the wall for the screws and one hole for the cable
- Knock the rubber bungs to the holes (A, C)
- Fix the back cover on the wall with 2 screws
- Thread the cable though the cable hole (B)
- Attach the unit to the back cover

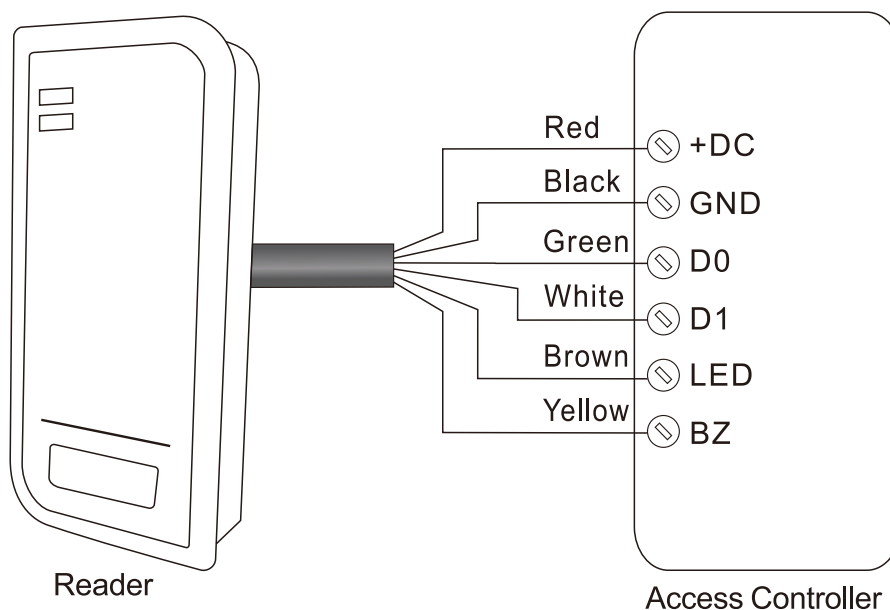


Wiring

Color	Function	Notes
Red	Power	+DC (9-18 V DC)
Black	GND	Ground
Green	D0	Data 0
White	D1	Data 1
Brown	LED	Green LED Light Control
Yellow	Buzzer	Buzzer Control

(Remarks: Brown and Yellow wires are optional connections)

Connection Diagram



4. Functions Table Sheet

Read Card	The LED light will turn into Green, and the buzzer sounds a beep, at the meantime, the reader outputs the Wiegand signal
External LED Control	When the input voltage for LED is low, the LED will turn into Green
External Buzzer Control	When the input voltage for Buzzer is low, the Buzzer will sounds
Wiegand Data Output	Wiegand 26~44, 56, 58bits available upon request, factory default setting is Wiegand 26bits for EM version, 34bits for Mifare version.

Packing List

Name	Quantity
Reader	1
Manual	1
Screw Driver	1
Wall Fixing Plugs	2
Self Tapping Screws	2

FCC warning:

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

Note: 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.

The device has been evaluated to meet **general RF exposure requirement**. The device **can** be used exposure condition **without restriction**.

IC warning

- English:

This device complies with Industry Canada licence-exempt RSS standard(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.

- French:

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;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with **IC RSS-102 radiation exposure limits** set forth for **an uncontrolled environment**. The device has been evaluated to meet **general RF exposure requirement**. The device **can** be used exposure condition **without restriction**.

Cet équipement respecte les limites d'exposition aux **rayonnements IC RSS-102** établies pour un **environnement non contrôlé**. L'appareil a été évalué pour répondre aux exigences **générales en matière d'exposition RF**. Il peut être utilisé **dans des conditions d'exposition sans restriction**.