HYUNDAI
SECURITY DEVICE

Programmable Wiegand Reader

User Manual

1. Introduction

It is a programmable 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.

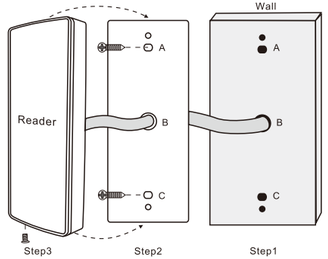
Version:	Card Typa
EM Version	Read 125KHz EM Cards
EM+HID Version	Read 125KHz EM+HID Cards
Mifare Version	Read 13.56MHz Mifare Cards (NXP Mifare, Mifare Plus, DesFire, Mifare Pro, Mifare UltraLight, Mifare Class 4K, NFC and CPU cards)
EM+HID+Mifare Version	Read 125KHz EM+HID Cards, 13.56MHz Mifare Cards (NXP Mifare, Mifare Plus, DesFire, Mifare Pro, Mifare UltraLight, Mifare Class 4K, NFC and CPU cards)

2. Specifications

Operation Voltage	9~18V DC
Standby Current	≤25mA
Frequency	125KHz / 13.56MHz
Card Type	EM / HID / Mifare
Read Range	0~6cm
Wiegand Output	EM: 26 (default), 34, 44bits Mifare: 26, 32, 34 (default), 58bits HID: Recognize card format automatically
Operating Temperature	-40°C~60°C (-40°F~140°F)
Operating Humidity	10% to 95% RH
Index of Protection	IP66

3.Installation

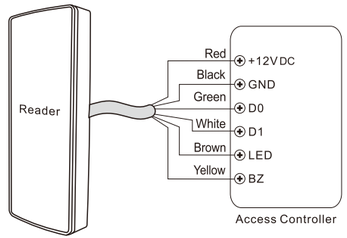
- Drill 2 holes (A,C) on the wall for the screws and one hole for the cable
- Knock the rubber bungs to the holes (A,C)
- Fix the back cover on the wall with 2 screws
- Thread the cable though the cable hole (B)
- Attach the unit to the back cover



4. Wiring

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

5.Connection Diagram



6.Programming

6.1 Set Wiegand Format for EM Cards

Power off, connect the Yellow Wire to GND and power on.
Hear 1 beep, disconnect the yellow wire, Wiegand output will be 26bits.
Hear 2 beeps, disconnect the yellow wire, Wiegand output will be 34bits
Hear 3 beeps, disconnect the yellow wire, Wiegand output will be 44bits.

Note: After disconnecting the yellow wire, there will be one more beep, means program successfully.

6.2 Set Wiegand Format for Mifare Cards

Power off, connect the Brown Wire to GND and power on.
Hear 1 beep, disconnect the brown wire, Wiegand output will be 26bits.
Hear 2 beeps, disconnect the brown wire, Wiegand output will be 32bits
Hear 3 beeps, disconnect the brown wire, Wiegand output will be 34bits.
Hear 4 beeps, disconnect the brown wire, Wiegand output will be 58bits.
Hear 5 beeps, disconnect the brown wire, Wiegand output 34bits/58bits
(Read 4byte card output WG34, 7byte card output WG58)

Note: After disconnecting the brown wire, there will be one more beep, means program successfully.

7.Function 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 sound
Wiegand Data Output	The Wiegand output is 26~58 bits

8.Packing List

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

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