PUA-310V1-0M0W
Mifare card reader

Ver.24.1

Introduction

● PUA-310V1-0M0W is one of most compact indoor/outdoor Mifare Proximity Reader, which is an advanced RFID contactless reader and designed smart for connection to Wiegand input control panel in access control systems as well as identification systems. It offers top reliability and performance. LED's normal state is in Red when it's power on, but LED will be changed to Green when the legal card is read.

● Supplies buzzer & LED responding signal.

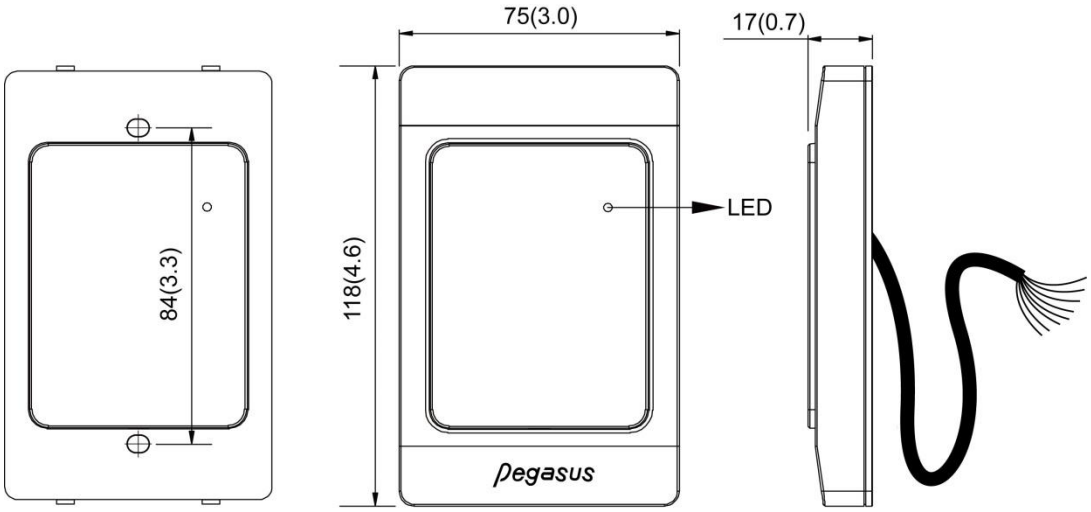
Specification

RFID frequency	13.56MHz
Applicable cards	Mifare, Mifare Ultralight, Mifare DESFire, NFC(card simulation)
Reading range	Max.6 cm
Output format	Wiegand 26 & 34 bit
Power input	12V DC
Standby current Operating current	70mA±10% @ 12 DC 90mA±10% @ 12 DC
Material	PC
Dimensions(L×W×H) mm/inch	118x75x17 / 4.6x3.0x0.7
Operating temperature	-10℃~75℃
Storage temperature	-20℃~85℃

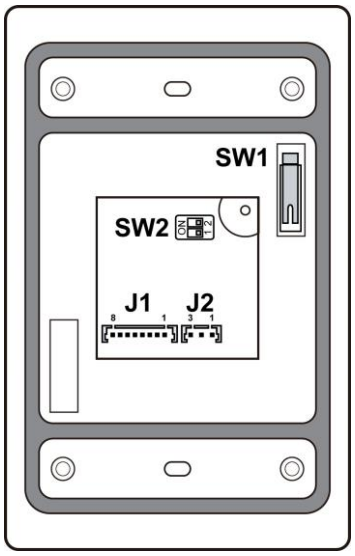
Installation guide

1. Please select an appropriate place to install the reader and mark the location of mounting holes the screw holes of the template.
2. Drill a 8 mm hole on the wall for threading the reader's cable.
3. Drill two 5 mm holes to fix the reader to the wall by using the provided screws.
4. LED's normal state is in Red when it's power on, but LED will be changed to Green when the legal card is read.
5. Once you use a separate power supply for the reader, a common ground should be connected between the reader and control system.
6. Normally, please make sure to connect wires of pin on. 1 to 8 for operation of the reader.
7. The reader shield wire should be connected to the metal box of the controller, it's for avoiding the reader to be interfered by external environment.
8. Maximum transmission distance: 150M(24 AWG wire)

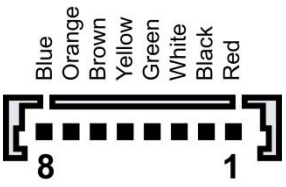
Dimension: Unit(mm / inch)



● Wire configuration



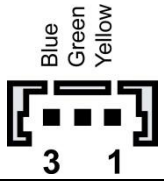
J1-Wiegand



Wire No	Color	Function	
1	Red		+12VDC
2	Black		Ground
3	White		Data 0
4	Green		Data 1
5	Yellow		---
6	Brown		LED
7	Orange		BUZZER
8	Blue		---

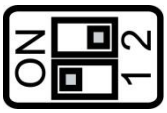
SW1 – Tamper switch

J2-For Tamper switch output



Wire No	Color	Function	
1	Yellow		COM.
2	Green		N.C.
3	Blue		N.O.

SW2 – Switch



1	ON	Wiegand 34 bit **(Default)**
	OFF	Wiegand 26 bit
2	ON	Single Reading
	OFF	Continuous Reading **(Default)**

● Data formats

Wiegand 26 bits output format (Pair with Pegasus access controller function code F4=9803)

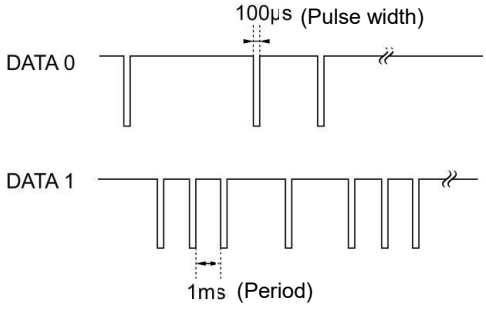
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
P	E	E	E	E	E	E	E	E	E	E	E	E	O	O	O	O	O	O	O	O	O	O	O	O	P
Summed for even parity(E)													**Summed for Odd parity(O)**												

P=Start Even parity bit and stop Odd parity bit.
Even parity “EP” is generated by summing from bit2 to bit13 (Indicated by “E”)
Odd parity “OP” is generated by summing from bit14 to bit25 (Indicated by “O”)

Wiegand 34 bits output format (Pair with Pegasus access controller function code F4=9808)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
P	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	P
P	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E																	
																	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	P
Summed for even parity(E)																	**Summed for Odd parity(O)**															

P=Start Even parity bit and stop Odd parity bit.
Even parity “EP” is generated by summing from bit2 to bit17 (Indicated by “E”)
Odd parity “OP” is generated by summing from bit18 to bit33 (Indicated by “O”)



Mifare is a registered trademark of NXP B.V.
Specifications subject to change without notice for further modification.