third millennium
advanced access control readers

RXseries® of Wiegand and OSDP® readers

Scan the QR code or link to the address below to find a list of datasheets to all products and other support information.

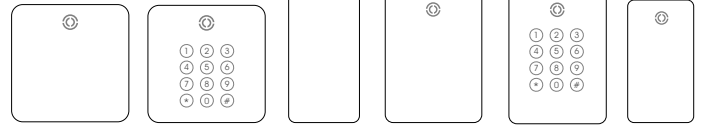https://www.tm-readers.com/downloads.htm

i These notes provide a general guidance for connecting and mounting the RXseries® of reader model(s) shown to the right.

Readers should only be installed by a qualified installer.

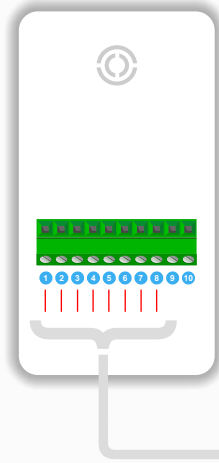Mounting readers on (or near) metal may impair the read range of the unit.
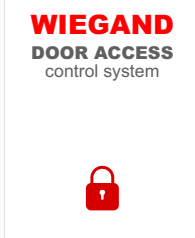
Reader Models

RX1   RX1K   RX2   RX3   RX3K   RX4

CONNECTIONS / PIN OUT — WIEGAND readers

1	0V	- supply voltage ground
2	+Vdc	- supply voltage (+10Vdc to +16Vdc)
3	DATA1/CLK	- Wiegand or Clock & Data output
4	DATA0/DAT	- Wiegand or Clock & Data output
5	GREEN	- Green LED control input
6	RED	- Red LED control input
7	BUZZER	- Buzzer control input
8	TMPR/CP	- Tamper or Card Present output
9	not used	-
10	not used	-

WIEGAND
DOOR ACCESS
control system

BELDEN 6306 FE
cable (or equivalent)
is recommended for use with
WIEGAND readers

CONNECTIONS / PIN OUT — OSDP® readers

1	0V	supply voltage ground
2	+Vdc	supply voltage (+10Vdc to +16Vdc)
3	not used	-
4	not used	-
5	not used	-
6	not used	-
7	not used	-
8	not used	-
9	RS485 -	RS-485 Bus
10	RS485+	RS-485 Bus

OSDP®
DOOR ACCESS
control system

OSDP™ Secure

BELDEN 6381 MD
cable (or equivalent)
is recommended for use with
OSDP readers

VERIFIED OSDP™ VERIFIED

OSDP® reader **DEFAULT SETTINGS**

i

baud rate
9600

address
0

It is recommended that a 120 Ω resistor should be fitted between the data lines at each end of the RX485 Bus

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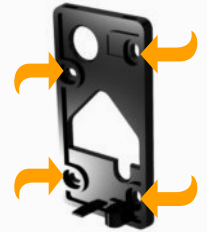
INSTALLATION

1
- Pull the bottom edge of reader module away from the backplate, and lift up.
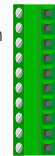
2
- Fix reader backplate to a flat surface using fixings with a diameter no greater than 4mm (015 inch).

3
- When the backplate is secured, make wire connections to the reader module, as shown in the 'CONNECTION' panels to the left.
- Ensure your readers is of the correct technology.
- Make all relevant connections to your control panel.

Ensure you position and arrange the cable such not to impair or prevent the reader module being properly secured to the back box.

4
- To secure the reader module, ensure the top edge fixing lugs engage correctly with the recesses located at the top of the backplate.

5
- When the top edge of the reader is engaged, swing the bottom edge down and forward until you feel the unit click shut.
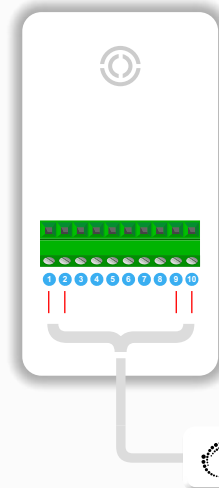
6
- Secure the reader module to the backplate using the M3x10mm screw, as supplied.
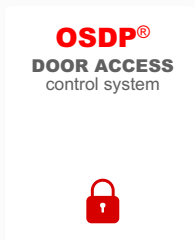- Run activation / performance test.