



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>



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.

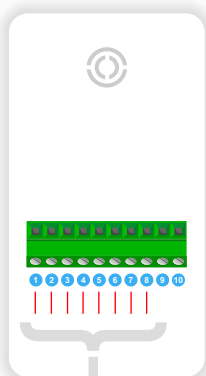
Mounting readers on (or near) metal may impair the read range of the unit.



RX5M

CONNECTIONS / PIN OUT

WIEGAND readers



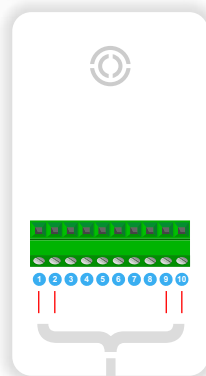
- | | | |
|----|-----------|-------------------------------------|
| 1 | 0V | - supply voltage ground |
| 2 | +Vdc | - supply voltage (+10Vdc to +16Vdc) |
| 3 | DATA1/CLK | - Wiegand or Clock & Data output |
| 4 | DATA0/DAT | - Wiegand or Clock & Data output |
| 5 | GREEN | - Green LED control input |
| 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



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



BELDEN 9502 cable
(or equivalent minimum 24 AWG)
is recommended for use with
OSDP readers

OSDP® reader DEFAULT SETTINGS



boud rate



9600

address



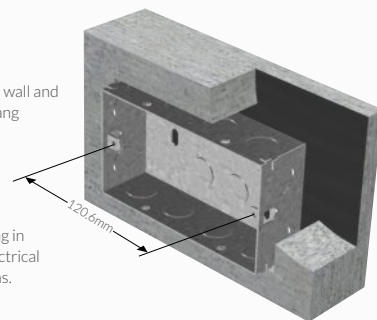
0

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

INSTALLATION

1

- Cut and form suitable recess in the wall and securely fix standard UK double-gang electrical back box.
- The back box must have panel fixings at 120.6mm crs.
- Run and position connection cabling in accordance with good practice, electrical guidelines and statutory regulations.



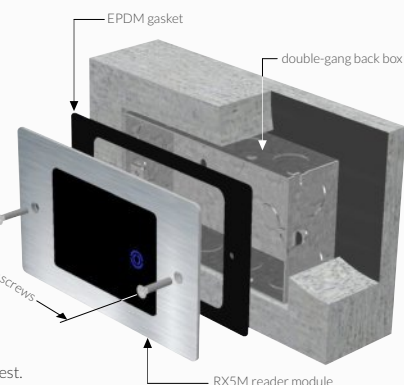
2

- When the back box is secured, make wire connections to the reader module, as shown in the 'CONNECTION' panels to the left.
- Ensure your reader is of the correct technology.
- Make all relevant connections to your control panel.
- **NOTE:**
If using the EPDM gasket (as supplied) be sure to feed the cabling through the gasket, before making wire connections to the reader.
- Ensure you position and arrange the cable such not to impair or prevent the reader module being properly secured to the back box.



3

- As a final check, before fixing the RX5M reader module, confirm you have wired the PIN-OUT connections correctly.
- Offer up the reader module and securely fix the panel using the M3.5x20mm security screws, as supplied.
- Run activation / performance test.



4

- Standard installation of RX5M reader module.
- As an option, the reader module may be installed as a vertical unit using the guidelines above.

