

### Technical Support

☎ 01273 811011



[support@paxton.co.uk](mailto:support@paxton.co.uk)

Technical help is available: Monday - Friday from 07:00 - 19:00 (GMT)  
Saturday from 09:00 - 13:00 (GMT)

Documentation on all Paxton products can be found on our website - <http://www.paxton.co.uk/>

### Suitability

Security-sensitive doors ✓

Mounted on metal surface ✗

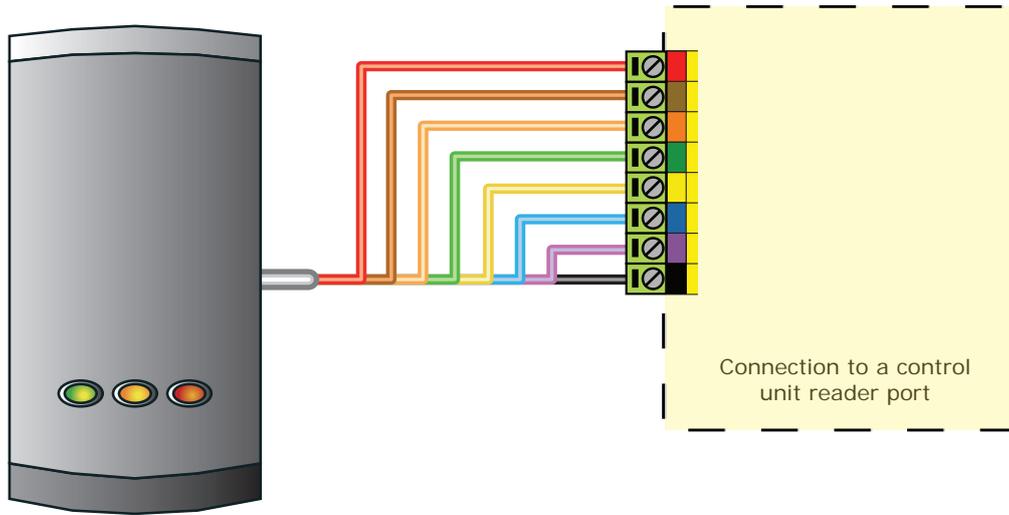
Wet environments ✓

Readers mounted together **300 mm**  
between readers

### Fitting



## Wiring



WHITE labelled control units provide 5V at the Red terminal. The Red power wire for the reader should therefore be directly connected to the 12V supply terminal.

## Cable extensions

Readers can be extended using Belden CR9540 10-core overall screened cable to a maximum of 100 metres.

## Technical Help

Here is the list of topics about this product that receive the most technical support enquiries. We list them here to help you speed up the installation and trouble shooting process.

### 1 - Readers/Keypads not working.

- Software settings - Confirm that the settings of the reader or keypad are correct.
- Connections - Check the wiring and integrity of the connectors. If possible, test this reader on the other port.
- Extended cable - Belden 9540 should be used up to a maximum of 100 m. Twisted pair alarm cable should not be used. To confirm that an extended reader cable is not at fault, wire the reader directly to the port.
- Supply voltage - Confirm that the voltage is within specification. (see table)
- User token - Confirm that the user token used for testing is OK by presenting it to a known working reader.
- Interference - Confirm whether the reader works when tested 'in hand' and not mounted on the wall. PROXIMITY readers should not be mounted back to back or close to other RF devices.

### 2 - Readers / Keypads - Extending cable.

Only Belden CR9538 / 9540 can be used for cable extensions. CR9538 8 core up to 25 m, CR9540 10 core for 25-100 m (maximum). With CR9540, the two additional cores should be used to double up the power.

### 3 - Net2 - Using a door reader as a desktop reader.

When there is no desktop reader on site it is possible to configure a door reader to operate as a desktop reader:

- 1 - Select the doors menu in the left hand Net2 pane.
  - 2 - Click on the door you wish to change the reader to act as a desktop reader.
  - 3 - Under the relevant reader tab, change the reader operating mode to 'Desktop Reader'.
  - 4 - The PC displays 'Would you like to accept desktop reader events from this reader at the PC?' ; click 'Yes'
- Now when you present a blank or existing token to that reader it will act in the same way as a USB desktop reader, enabling you to add new tokens or edit existing ones.

**NOTE:** Remember to return the operating mode to the original setting once the cards have been read or users will not be able to gain access through the reader.

KP Reader - Ensure that Keypad type is set to 'None', otherwise the Desktop reader option will not be available.

### 4 - Net2. Two readers into one reader port.

Two readers can be wired in parallel. - Colour for Colour. This can be useful in situations such as a barrier where dual height readers are required; one for cars, one for lorries.

### 5 - Net2. What to do if a user has no access - Check the reader LED's when a card is shown.

- No LED's - the reader has no power.
- No change in display - try the card on a known working reader. If there is still no response, replace the card.
- Green LED flashing when a card is presented; check relay 1 LED to check for activity and also the lock wiring.
- Red LED is flashing when a card is presented; check the validity of the user at the PC.
  - Check user's access level and ensure they should have access by clicking on Current Validity.
  - Check the 'Valid Until' date and confirm this has not expired.
- Reinstate the ACU from the doors screen. Select the ACU's you wish to reinstate and then click OK.

## Specifications

Specifications			
Environment	Min	Max	
Operating temperatures - all items	-35 °C	+66 °C	
Waterproof			IPX7
Cable length			3 metres
Electrical	Min	Max	
Voltage	10V DC	14V DC	
Current		130 mA	
Carrier frequency			125 kHz
Clock and data bit period			600 µs
Dimensions	Width	Height	Depth
	45 mm	100 mm	20 mm
Read Range	Token	Keyfob	Hands Free Token
	60 mm	40 mm	850 mm