

**Technical Support**

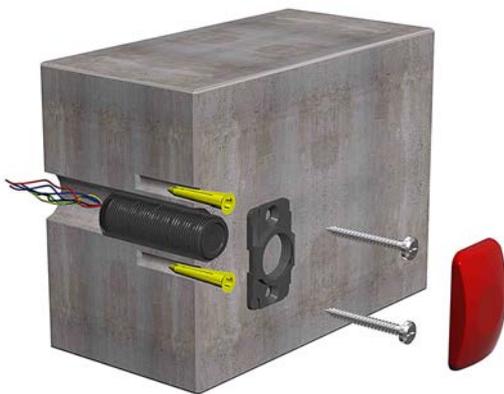
 01273 811011

 [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/>

**Fitting**



Open hole - medium vandal resistance

Cement plug - high vandal resistance

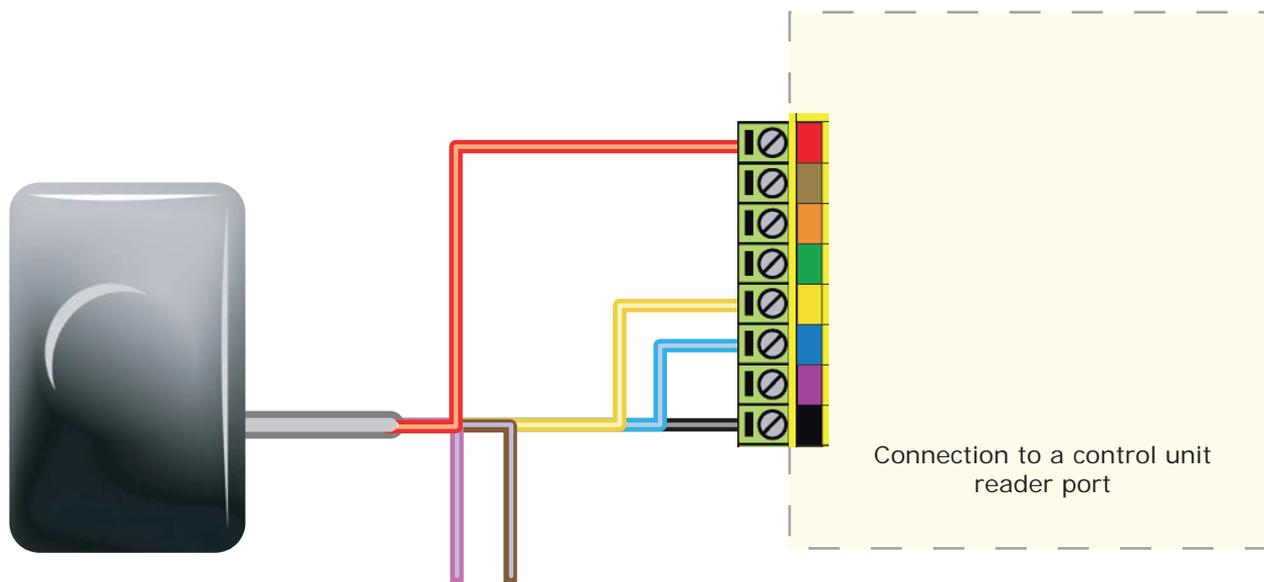


Blind hole - very high vandal resistance

**Reader covers**

Additional covers are available in black, white, grey, solid blue, clear blue, green and yellow. Registered installers can order these free of charge by logging onto the secure installer extranet: <http://paxton.info/1035> or if you are not a registered installer please call us on: **01273 811011** for more information.

## 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.

## Connection modules



### Reader junction box (325-020)

This module can be used to provide a connection point for the reader RJ45 plug. The terminals on the module are then wired colour for colour to the controller.

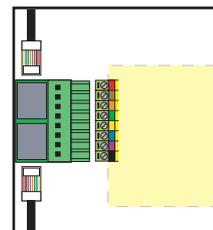
Alternatively, the reader can be wired directly into the screw terminals of the control unit by first cutting off the RJ45 plug and stripping back the wires in the cable.

### Reader port module (325-030)

This module may be purchased separately to speed up the installation and replacement of readers.

The reader port module is designed to convert the standard reader ports on Switch2 and Net2 controllers to accept one or two RJ45 connections. Pull off the screw terminal block from the reader port and simply replace it with this module.

Further information on how to purchase Installer Tools is available at: <http://paxton.info/841>



## 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.
- Cable - Belden 9540 should be used to extend the reader cable (100 m maximum). 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. Ensure PROXIMITY readers are not mounted back to back or that there is no interference from 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 extension). With CR9540, the two additional cores should be used to double up the power.

### 3 - Net2. What to do if a user card does not release the lock.

- No beep from reader when token presented - try the card on a known working reader. If there is still no response, replace the card.
- Check the Events screen - Access permitted; check lock relay LED to check for activity and also the lock wiring.
- Check the Events screen - Access denied; 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.

### 4 - Switch2 - Adding an additional card pack.

You need to be in possession of the original enrolment card.

- Present the original enrolment card to the reader.
- Present the enrolment card from the new card pack.  
The reader will beep and the additional cards will now be valid.
- Repeat this with each reader and with any additional card packs.  
Any valid enrolment card can be used to add further packs. This is the same for enrolling function card packs onto a system.

### 5 - Switch2 - How to reset the controller.

1. Disconnect the power and remove the wires from the Green and Mauve terminals.
2. Insert a wire link between the Green and Mauve terminals.
3. Reconnect the power (the unit will beep 4 times).
4. Disconnect the power and remove the link wire, reconnect the Green and Mauve wires.
5. Reconnect the power (the unit will beep 3 times per second). The unit is ready to be enrolled.

## Suitability

Security-sensitive doors



Mounted on metal surface



Wet environments



Readers mounted together

300 mm  
between  
readers

## Specifications

Specifications			
Electrical	Min		Max
Voltage	10V DC		14V DC
Current			110 mA
Carrier frequency			125 kHz
Clock and data bit period			600 µs
Environment	Min		Max
Operating temperatures - all items	-20 °C		+55 °C
Waterproof	IPX7		Outdoor Use
Cable length			5 metres
Dimensions	Diameter		Depth
	20 mm		60 mm
Read Range	Token		Keyfob
	80 mm		40 mm
			Hands Free Token
			Not Compatible

## Contents in box

PROXIMITY vandal proof reader			
Documentation			
Option		Qty	Description
Fitting Kit VP Covers	fk1-043	1	M20 Proximity cover, Black
		1	M20 Proximity cover, White
Fitting Kit VP Reader	fk1-044	2	No 6 x 3/4in countersunk BZP self tapping screw
		2	22 mm Wall Plugs
		5	Cable clips
		1	M20 Proximity mounting plate, Black

This product is not suitable for retail sale. All warranties are invalid if this product is not installed by a competent person.

# CE0168

The declaration of conformity is available on request. Contact details are provided at: <http://paxton.info/596>