


## Technical Support

 1.800.672.7298

 [supportUS@paxton-access.com](mailto:supportUS@paxton-access.com)

Technical help is available: Monday - Friday from 02:00 AM - 8:00 PM (EST)

Documentation on all Paxton products can be found on our web site - <http://www.paxton-access.com/>

For instructions in alternative languages - <http://paxton.info/1000>

## Mounting



## Reader covers

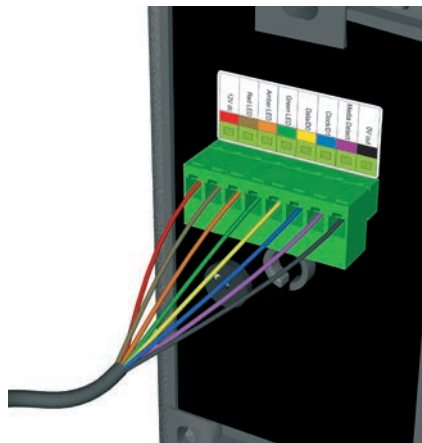
Additional covers are available in black, white, grey, blue and silver. Registered installers can order these free of charge by logging onto the secure installer extranet: <http://paxton.info/1035>. If you are not a registered installer please call us on: **877.438.7298** for more information.

## P75 Screw connector option

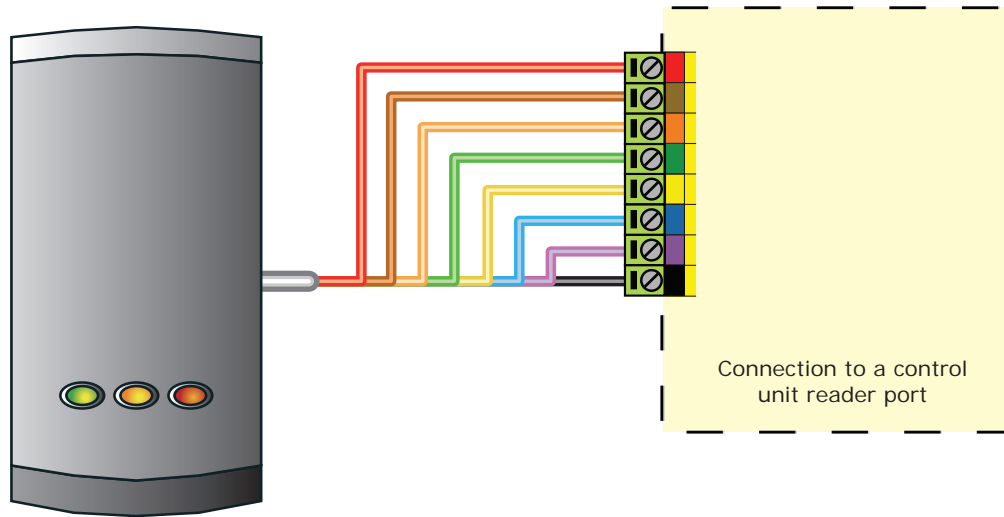
The unit should be mounted in conjunction with an electrical backbox to achieve the required clearance for the connector.

If an adaptor plate (310-750-US) is fitted, the mountings on the backbox can also be used.

**Indoor use only**



## Wiring



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

## Cable extensions

Readers can be extended using Belden 9538 8 core or General Cable C0744A overall screened cable to a maximum of 500 feet.

## Connection modules



### Reader junction box (325-020-US)

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

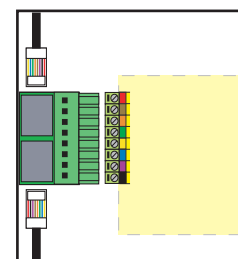
Alternatively, the reader can be wired directly into the screw terminals of the control unit by first cutting off the RJ45 plug and stripping back the wires in the cable.

### Reader Port Module (325-030-US)

This module may be purchased separately to speed up the installing 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>



## Technical Help

Here is the list of topics about this product that receive the most technical support inquiries. 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 9538/9540 or General Cable C0745A/C0744A should be used up to a maximum of 500 feet. 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 or a UL equivalent can be used for cable extensions. The maximum run is 500 feet.

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

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 allow you to add this new token or edit the existing one.

**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. 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 'Expires end' date and confirm this has not been past.
- Reinstate the ACU from the doors screen. Select the ACU's you wish to reinstate and then click OK.

## Suitability

Security sensitive doors



Mounted on metal surface



Wet environments



Readers mounted together

**12 inches**  
between  
readers

## Specifications

Environment			
	Min	Max	
Operating temperatures - all items	-35 °C ( -31 °F )	+66 °C ( + 151 °F )	
Waterproof - Fixed cable	IPX7		Outdoor use
Waterproof - P75 - Screw connection			Indoor use
Cable length			15 feet
Electrical			
	Min	Max	
Voltage			12V DC
Current		130 mA	
Carrier frequency			125 kHz
Clock and data bit period			600 μs
Dimensions			
	Width	Height	Depth
P38	1 1/2 inch	3 inch	1/2 inch
P50	2 inch	4 inch	5/8 inch
P75	3 inch	5 1/2 inch	5/8 inch
Read Range			
	Token	Keyfob	Hands Free Token
P38	2 1/2 inch	1 1/2 inch	3 feet
P50	3 inch	2 inch	4 feet
P75	4 inch	2 1/2 inch	5 feet

### Product compliance and limitations

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.