

Technical Support



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Technical help is available: Monday - Friday from 07:00 - 01:00 (GMT)
Saturday from 09:00 - 13:00 (GMT)

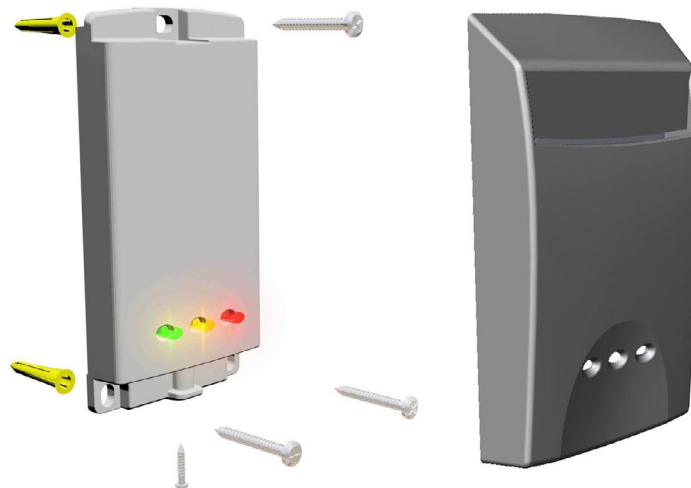
Documentation on all Paxton Access products can be found on our web site - <http://www.paxton.co.uk/>

How is it used ?

This proximity reader has a special cover that is designed to retain a user card. The presence of a card in the reader can then be used to turn on/off other equipment when a user is present.

The reader can be used with Net2 or Switch2 controllers to provide a volt free relay toggled output that can either directly switch low voltage (less the 40V DC) or in conjunction with a mains contact relay, to switch power to equipment or lighting.

Fitting



Operation

When a valid user card is introduced to the reader, its card number is sent to the controller. The reader constantly monitors for the presence of that card and once it is no longer in range of the reader (removed from the holder) the card number is sent a second time. Paxton control units have a toggle function that will change the state of the relay each time it receives a card number.

NOTE: The system only monitors one card at a time and so a short 'off' period will occur if the user card in the holder is exchanged for another.

Switch2 must be configured by means of a Toggle function card - This will need to be purchased if no function pack already exists for this site.

Net2 has a toggle function assigned to Relay 2 and so either Reader port 1 or 2 can be used for this function. You will need to select the Relay 2 toggle mode on the relevant reader screen.

NOTE: If the Access level of a card becomes invalid (e.g. the time period or date expires) while it is in the reader, removing the card will NOT turn off the equipment. You will need to introduce and remove a valid card to correct this condition. (Net2 V4.12 or later)

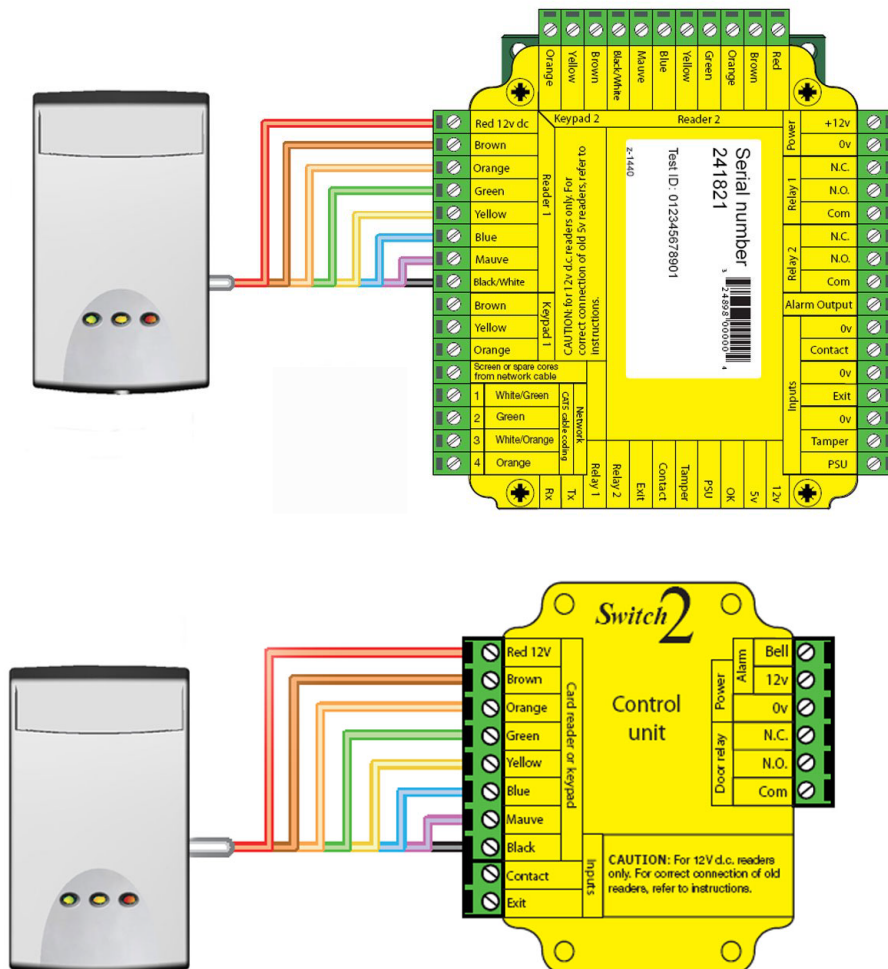
Reader action - This is what will happen when a valid access is granted.

☐ Relay 1 opens for door open time

☒ Relay 2 toggles

NOTE: Paxton controller relays have a rating of 40V DC / 4A and must NOT be connected directly to the mains supply. See AN1088 - Using the energy saving reader to switch mains power.

Wiring



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

Connection modules



Reader junction box (325-020)

This module (included with the product) 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.

Reader Port Module (325-030)

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

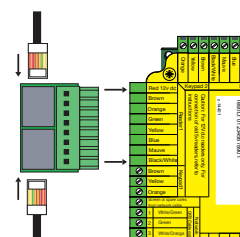
During the manufacture of all Paxton products, units are checked on automated test equipment to ensure that they operate correctly. An RJ45 plug is fitted to speed up this process and this is now left attached to the cable after testing is completed.

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.



Positioning readers

There must be 300 mm between readers

This reader is designed to read Paxton Tokens (Hitag2) and EM4100 tokens.

Specifications			
Environment	Min	Max	
Operating temperatures - all items	-20 °C	+55 °C	
Waterproof			IPX7
Cable length			5 metres
Electrical	Min	Max	
Voltage	8V DC	14V DC	
Current		80 mA	
Carrier frequency			125 kHz
Clock and data bit period			600 µs
Dimensions	Width	Height	Depth
	60 mm	102 mm	18 mm

CE0168

The declaration of conformity may be consulted at: <http://paxton.info/596>