Ins-40159-US PROXIMITY panel mount HID™ reader - UL

Technical Support

1.800.672.7298 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/

Suitability

Security sensitive doors	✓	Wet environments	✓
Compatible with hands free tokens	✗	Readers mounted together	**12 inches** between readers

Mounting

Token type and configuration

The reader will recognize 125 kHz HID™ proximity tokens in format to produce a Wiegand output (26 to 50 bit) or EM4100 tokens to produce an ABA Track2 Clock and Data output.

The reader scans the first token presented after power up and will match the reader mode to the format discovered.

If no token is read within 3 minutes of powering up, the reader will default to HID™. If you require EM4100 operation, power cycle the reader and present an EM4100 token within 3 minutes.

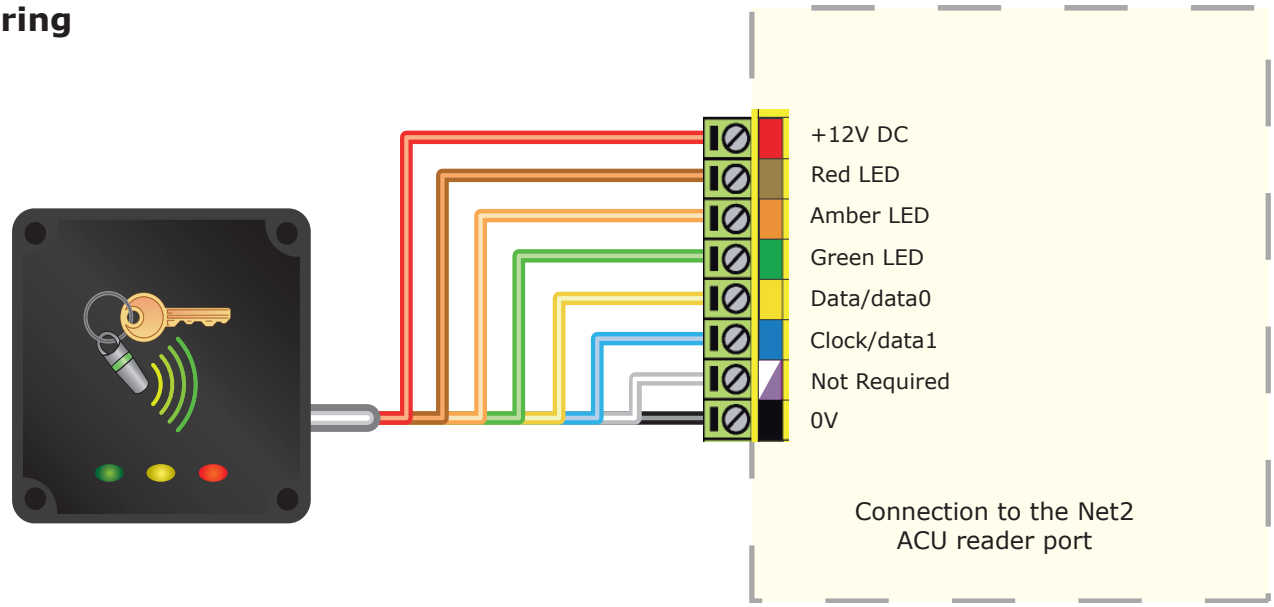
Once in HID™ or EM4100 mode, the reader will remain in that format.

If used with Net2, the ACU reader port must be configured to read the correct data format.

Where Wiegand cards are used, you must set the correct data format (e.g. Wiegand 26 bits) in the ACU reader port configuration or create a custom wiegand filter in the Net2 Server Configuration Utility. For further information see*: AN1010 - Configuring custom Wiegand formats* < http://paxton.info/990 >

Options	
Part number	**Description**
390-530-US	PROXIMITY panel mount HID™ reader

Wiring



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

Cable extensions

Cable Specification		
Use	**Max length**	**Type**
Reader / Keypad	500 feet	8 core, shielded - Beldon 9538, Alpha 1298C (22AWG) or equivalent

Parts Kit	
Part number	**Description**
Not required	Fits to studs on customer facia

Reader installation and test

The panel mount reader is designed to fit into a door entry panel. It fits behind a reader aperture of industry standard size (40 mm x 40 mm) and is supplied with a polycarbonate window to match. See front page for fitting detail.

Holes are provided in each corner to fit over 4 posts set in a 49 mm square formation. Fixings are not provided as they will normally be supplied with the panel.

When powered up, the reader will beep and all the LED's should display. Presenting a user card to the reader will cause the LED's to briefly change to a single Green or Red LED.

Check the following FAQs section for assistance if any problems are encountered.

Maintenance

Following the completed installation of this equipment, no further maintenance or testing is required.

It is advisable to ensure that any third party backup power supplies or recovery procedures are checked regularly to ensure that the operation of the Paxton system is not compromised.

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.

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 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 '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			
Electrical	Min	Max	
Voltage			12V DC
Current		140 mA	
Carrier frequency	115 kHz	135 kHz	
Environment	Min	Max	
Operating temperatures - all items	-35 °C (-31 °F)	+66 °C (+ 151 °F)	
Waterproof	IPX7		Outdoor Use
Cable length			3 metres
Read Range	Token	Keyfob	Hands Free Token
	2"	1 1/2"	Not Compatible
Dimensions	Width	Height	Depth
Panel mount reader	2 1/4 "	2 1/4 "	11/16 "
Window size	40 mm (1 19/32")	40 mm (1 19/32")	-
Mounting studs - Square formation	49 mm (1 30/32")	49 mm (1 30/32")	See front page for position

Reader fixings are in metric to match industry standard access panel readers