

Introduction

The AC-1200 proximity reader from Controlsoft® reads Controlsoft 125KHz cards and tags, and connects to any Access Control Unit (ACU) via a Wiegand interface. The reader is available in black and has an internal piezo buzzer and tri-colour LED to indicate status. The circuitry is encased in a durable, waterproof resin, making it suitable for indoor and outdoor use.



Step 1 — Mount the Reader

Use the template provided to mark and drill the 3 required holes. Plug the mounting holes (if required), feed the pigtail through the cable entry hole and mount the reader.

Step 2 — Connect the Reader to the ACU

The reader is supplied with a 50cm 'pigtail' lead with the following connections:

Colour	Signal Description
Red	Power Supply (+12Vdc)
Black	Ground (0V)
Green	Data 0
White	Data 1
Purple	Green LED Control
Yellow	Buzzer Control
Brown	Red LED Control

Connect the reader as described in the Installation Instructions for the ACU. Information on wiring to a Controlsoft iNet™, Reader Expander Board, Edge or Solo 2 is provided overleaf.

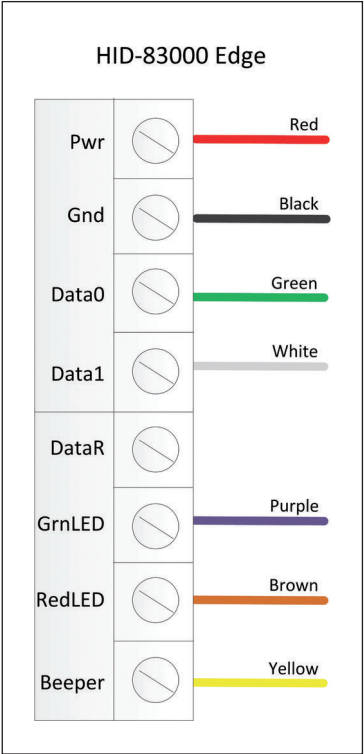
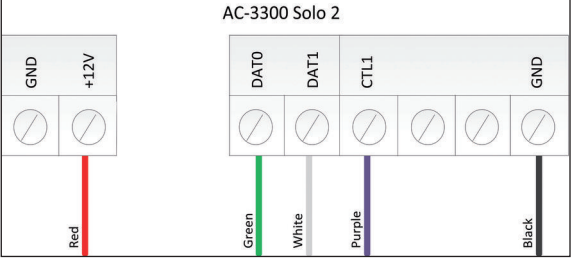
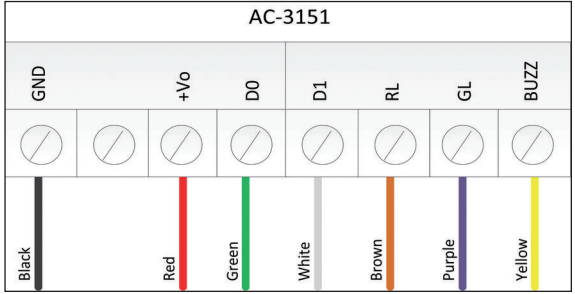
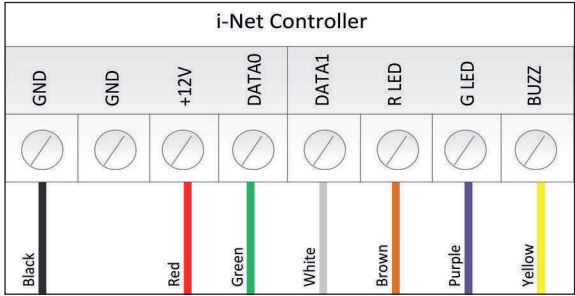
If the length of the pigtail needs to be extended, it is important to use screened, non twisted cable such as Belden 9538 which must not exceed 100 metres. If the distance between the ACU and reader is more than 25 metres, power must be supplied to the reader by a power supply mounted close to the reader.

Step 3 — Test the Reader

To ensure correct operation of the reader, test the connections to the ACU by referring to the following checklist:

- 1 The LED is flashing green (normal wait state).
- 2 An allowed card swiped at the reader generates a beep and the LED turns green (normal allow state).
- 3 A denied card swiped at the reader generates a long beep and the LED turns red (normal deny state)
- 4 If the reader does not respond when a card is presented, the card is not enrolled at the ACU (normal deny state) or some form of interference may be present.
- 5 A yellow LED, or the buzzer remains permanently on indicates that the reader is experiencing operational problems. Check that the connections are correct, and that the reader has adequate power.

# AC-1200 - Wiring Diagram



## Caution:

The “crossed out wheeled bin” logo on Controlsoft products indicates that this product should not be disposed of via the normal household waste stream.

To prevent possible harm to the environment or human health, please separate this product from other waste streams. For further information, contact your local government office or the retailer where you purchased product.

This information only applies to customers in European Union.

For other countries, please contact your local government to investigate the possibility of recycling your product.



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Information on all our products can be found on our website [www.controlsoft.com](http://www.controlsoft.com)