

## Introduction

The AC-1800 RF reader from Controlsoft® reads Controlsoft 868MHz RF Transmitters, and connects to any Access Control Unit (ACU) via a Wiegand interface.

The unit has an internal piezo buzzer and green LED. 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 1 metre 'pigtail' lead with the following connections:

Colour	Signal Description
Red	+12Vdc
Black	Ground 0V
Yellow	Data 0
Green	Data 1

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

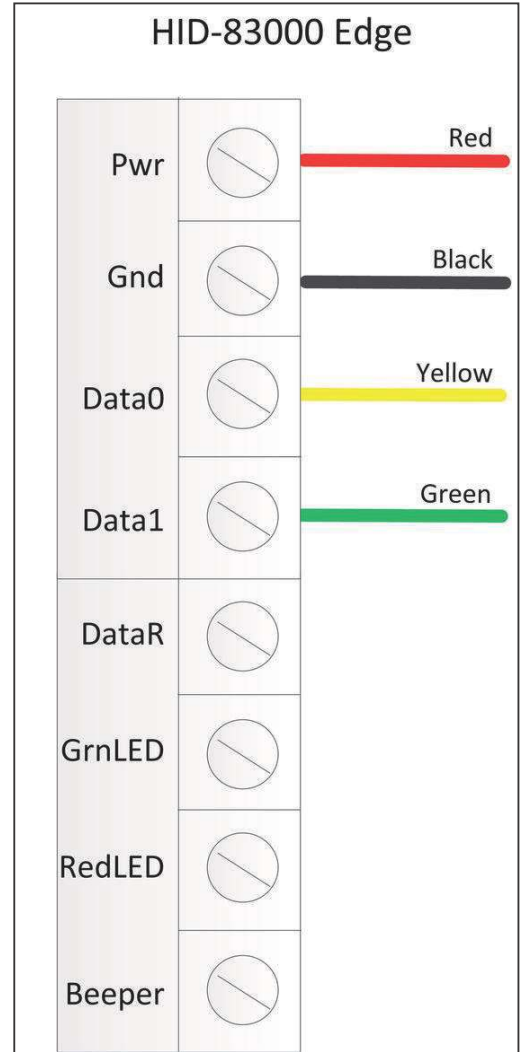
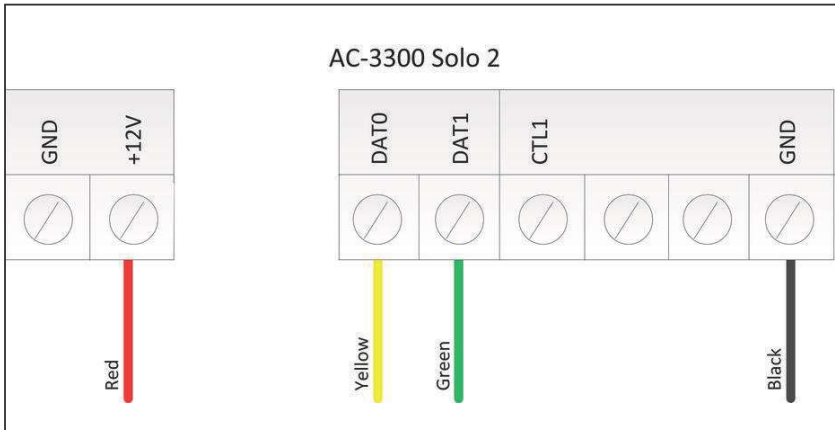
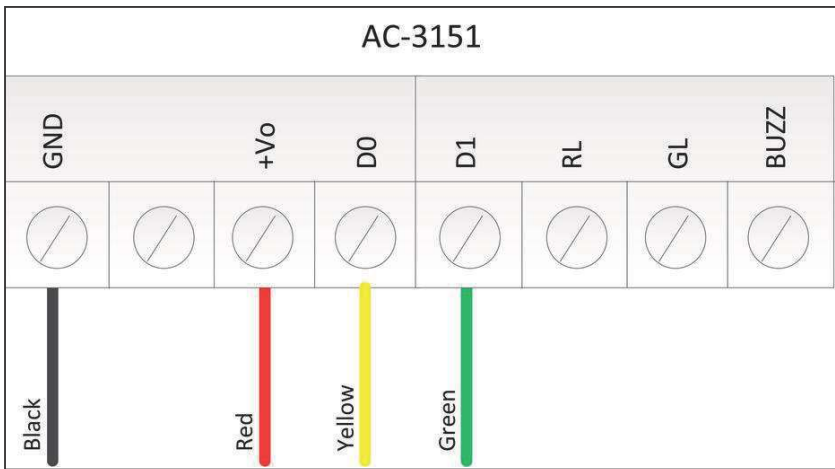
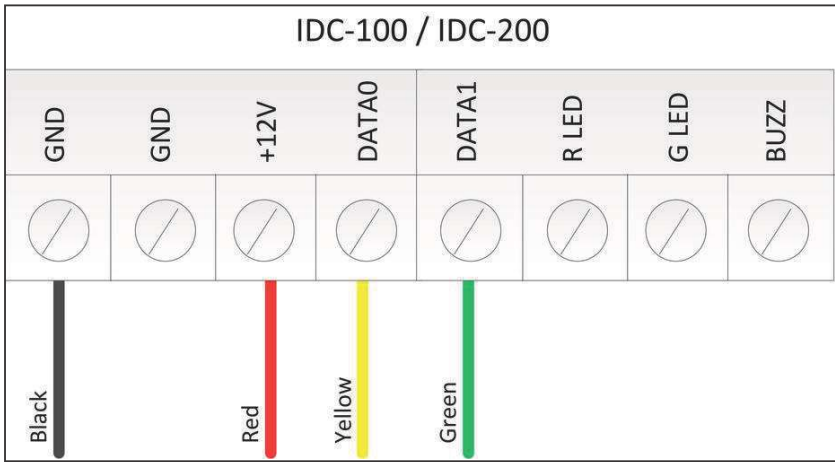
If the distance between the ACU and reader is more than 25 metres, power must be supplied to the reader by a power supply mounted close to the reader.

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.

## Step 3 – Test the Reader

When powered up, the green LED will be permanently on. Test the reader operates correctly in conjunction with the controller and a transmitter.

# AC-1800 - Wiring Diagram



## Controlsoft



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