

Connection Overview

Please see individual pages for more details

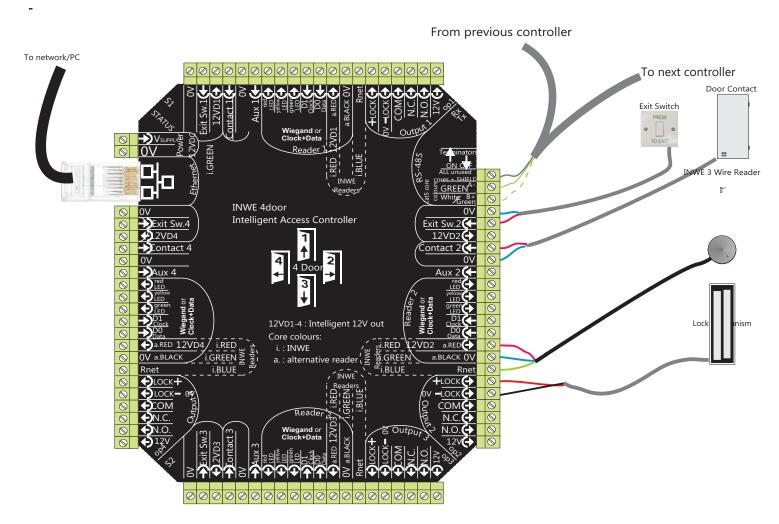
Diagram shows connections for door 2

Doors 1,3 & 4 are connected in the same manner to the top, bottom and right of the boards indicated

Web site www.inwe.co.uk Email info@inwe.co.uk

Telephone 01909 561470/07876748456

These drawings are for the Inwe 4 door controller, the 1 door and 2 door controllers are installed using the same convention



Note - Reader outputs & Lock output

- Protected from over current
- Protected from external high voltages
- Feature dynamic current management

LED indicators

Status - Network Connection

S1 - Indicates which memory sector active

op1- Lock output 1 Active

Rx&Tx - Receive and ttransmint network activity

op2 - Lock output 2 Active

op3 - Lock output 3 Active

S2 - Indicates which memory sector active

op4 - Lock output 4 Active



Power connections

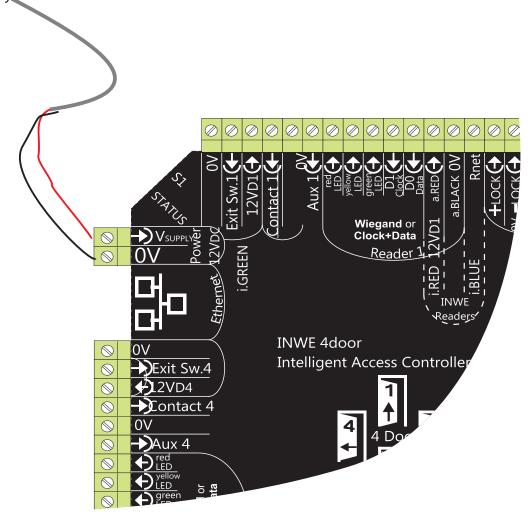
A 12V (13.8V) DC power supply must be utilised

Ensure the power supply has a high enough rating to cater for all connected locks.

Allow 120mA for the controller and 60mA for each reader

If supplied in a Inwe 5A power supply, max current out is 4.5A (0.5 A reserved for back up battery For operation polarity must be observed, however the board is protected from

reversed polarity

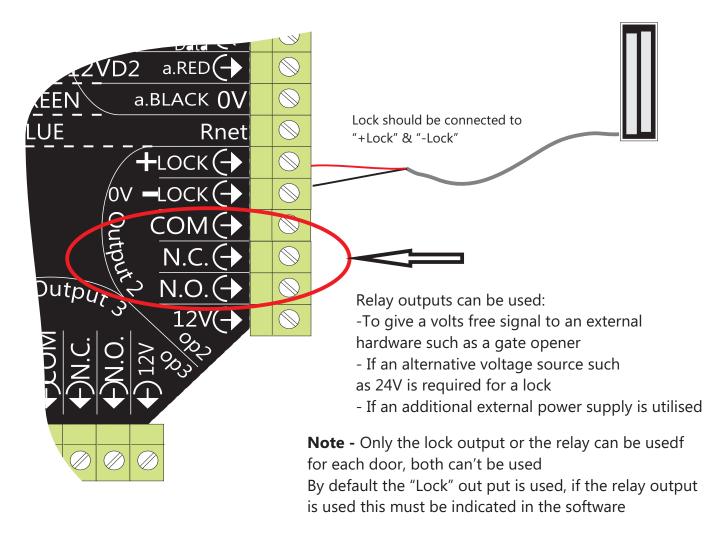


If the output required is higher than the connected power supply, a relay output can be utilised, using a secod, extrenal power supply (see Lock connections)



Lock connections

By default the lock output is fail safe The lock output is nominally 12V DC



Any fail safe or fail secure lock can be installed Fail safe/fail secure is configured in software by default the configuration is fail safe

Total output for locks controllers and readers should not exceed the input power supply rating

No diodes required when using the "lock" output, the controller is protected from back emf's

If the relay output is used to supply a loc, a diode should be utilised

The "Lock" output is protected from over current, reversed connections and shorts. If over current is detected output will close, it will be restored in under 1 second when fault is removed



Reader connections

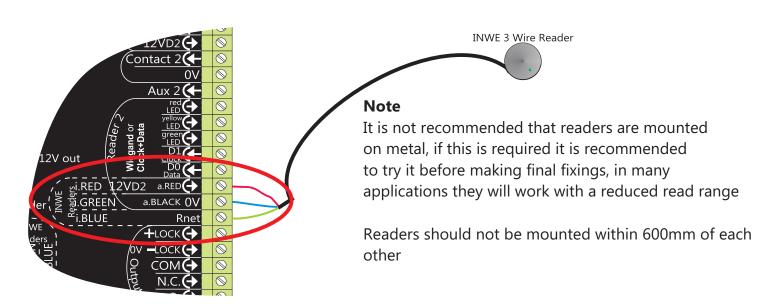
Inwe 3 wire reader

The Inwe 3 wire reader should be connected as indicated below

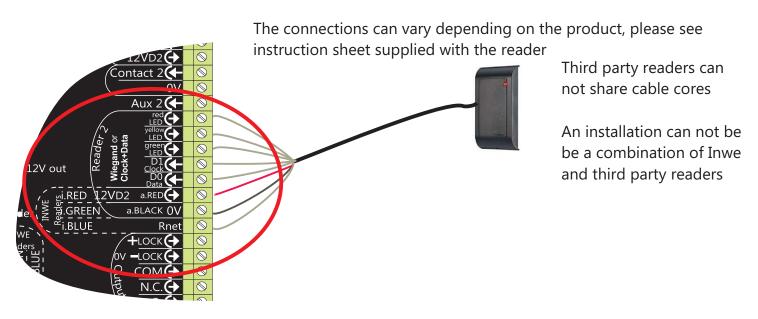
If readers for each door are connected separately, to their appropriate input, they will autommatically be assigned to the associated lock output

If readers wires are shared, they can be assigned as required via the software

Readers can be assigned as In or Out via the software



Clock and Data & Wiegand readers can be utilised

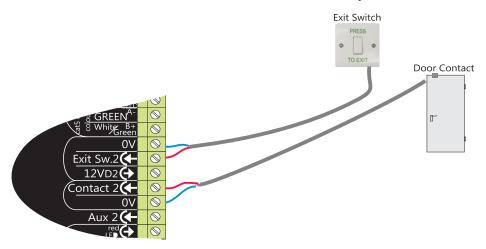




Exit switch & door contacts connections

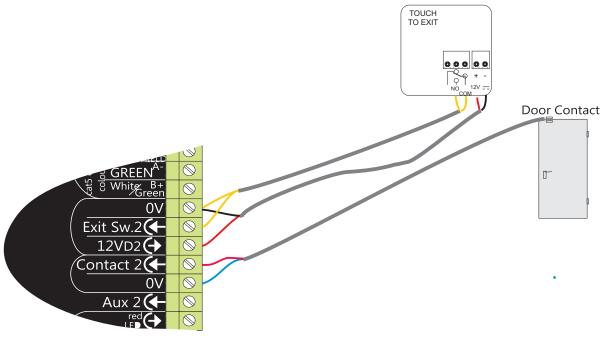
Simple 2 wire exit switches and door contacts are connected as below

If connections are made to the door with which the lock is connected, the association will be made automatically



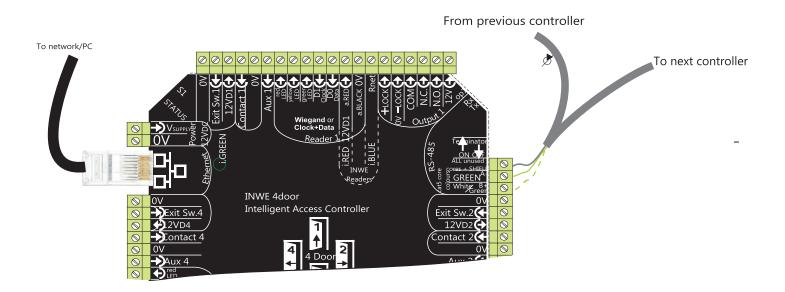
If required associations can be changed from within the software

Exit switches requiring a 12V supply, such as the Inwe, touch sensitive, switch are connected as below





Network connections



Individual controllers can be connected to a sites LAN using RJ45 connectors

Alternatively, controllers can be daisy chained utilising 2cores of CAT5/6 cable, as above, all cores excepting the green and white & green should be connected together as indicated above

A patch cable can be utilised to make direct connection from the controller to PC

The termination for first and last controller in any daisy chained connection should be turned on

In a daisy chain, any of the controllers can be used to make a connection to a LAN or PC

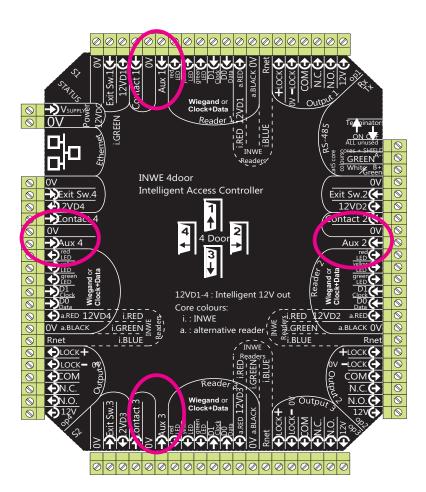


Additional input connectons

There are 4 inputs on the board as shown below, Aux 1 to 4 These can be utilised as required and named within the software Possible uses are, but not limited to

- Tamper
- Fire relay input
- Additional exit switch e.g reception desk

Note: Whilst the aux inputs are nominally assigned to the door shown by default, if required, associations can be changed utilising the software





Installing & setting up Inwe

Hardware and controllers

Install controller and hardware as indicated in preceding pages

If contacts, readers, exit switches and locks from a door are connected to the same door conections on the controller they will automatically be associated with the same door

By default, the system is set up for fail safe lock **Note** if a fail secure lock is fitted, it will lock whena Tag is presented to the reader

Three ging lock status from fail safe to fail secure can be simply undertaken in the software

Assignment of all items can be changed in software if required

Inwe Reader wiring can share cabling and be assigned via the software, this can be particularly useful if there is an entry and exit reader but can be utilised for up to 16 readers

Software

Download software from Inwe.co.uk
Run Install