

Notes:

Powered by 12vdc

Using following parts:

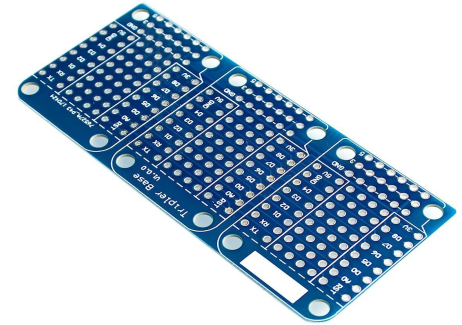
Three slot D1 Mini board

<https://www.amazon.com/dp/B088TRSFJH>

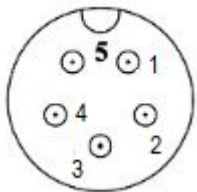
2 D1 Mini relay

<https://www.amazon.com/gp/product/B0BC1CTDKD>

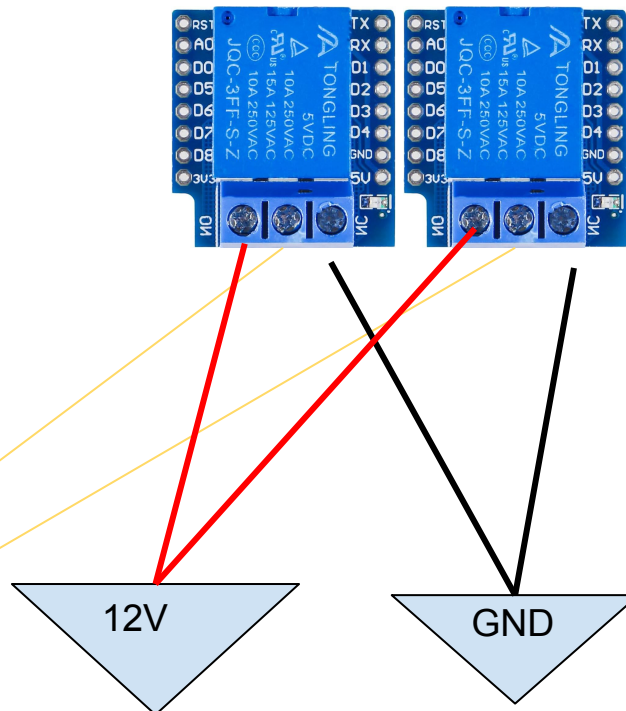
ESP32 S2 D1 microcontroller



Aircraft style
connector
Solder cup side



- 1 - full open
- 2 - full closed
- 3 - ground
- 4 - nc relay
- 5 - nc relay



Using a three slot D1 board
and in order to standardize
relay boards

We alter the base board in the
slot furthest from the
Processor to allow a D1 relay
to be activated on D2.

So cut trace to D1 and jump
D2 to the D1

I have found most relays are
hard wired for D1

Also add jumpers from D3 and
D4 for the limit detection