Relay & powered outputs driver

24V tolerant inputs
Max drop across resistor is 20.7V, 20k resistor limits current to around 1mA

Screw terminals and I2C connector

Scale the input on ADC channels to bring the maximum of 24V to below the ADC's non-amplified range of 0V to 3.3V:
10k and 820k scale 25.85V to 3.3V.

V_{Vin} = \frac{V_{Vadc}}{\frac{120}{120+820}}

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