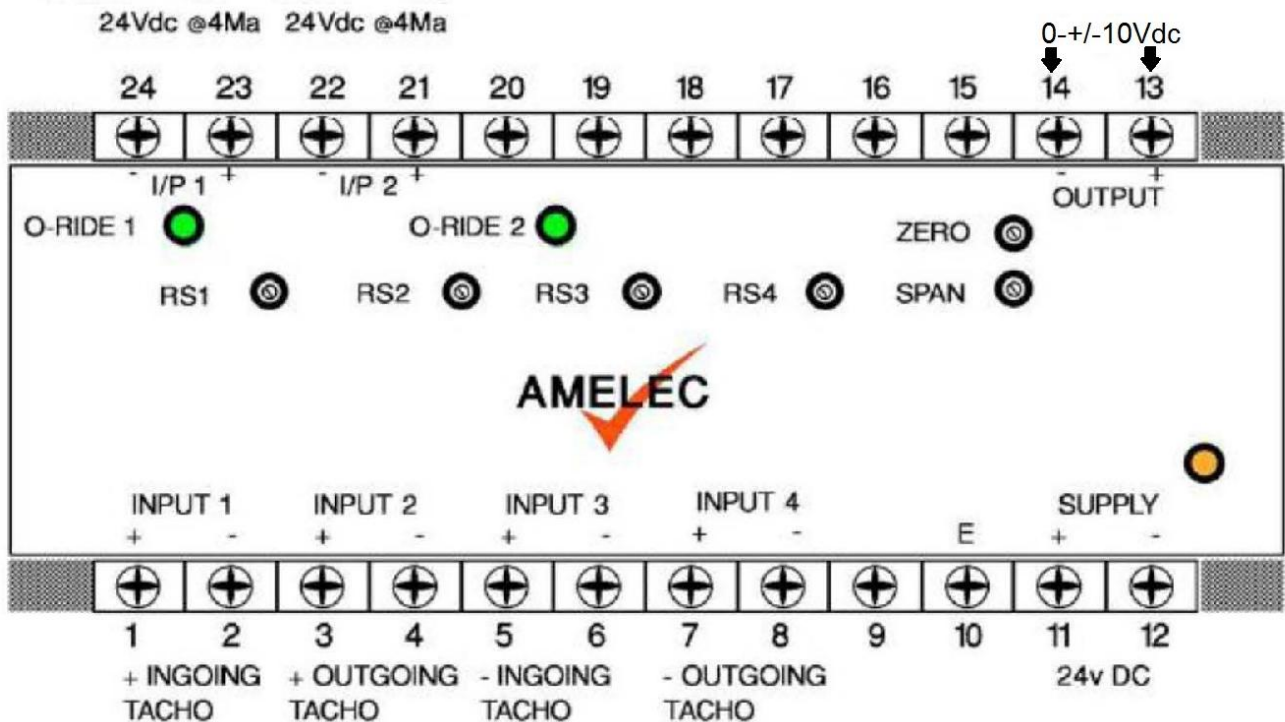


ADC313X Highest Magnitude Signal Selector with Over-ride



I/P Terminal Wiring;

TB1 = Positive signal Ingoing TACHO
TB3 = Positive Outgoing TACHO
TB5 = NEGATIVE signal Ingoing TACHO
TB7 = NEGATIVE signal Outgoing TACHO

TB2 = 0V Ingoing TACHO
TB4 = 0V Outgoing TACHO
TB6 = 0V Ingoing TACHO
TB8 = 0V Outgoing TACHO

Operation / Function:

Input: 1 = Ingoing Tacho: 0 to +65Vdc (impedance 2Mohms, common input 0V)
2 = Outgoing Tacho: 0 to +65Vdc (impedance 2Mohms, common input 0V)
3 = Ingoing Tacho: 0 to -65Vdc (impedance 2Mohms, common input 0V)
4 = Outgoing Tacho: 0 to -65Vdc (impedance 2Mohms, common input 0V)

Output: 0 to ± 10 Vdc (min load 500ohms)

Proportional to the magnitude of the highest of the inputs, polarity to match that of the inputs.

Over-ride Inputs: 1 = 24Vdc @4mA reduces I/P1 by 50%, I/P2 is selected to produce O/P if I/P2 > I/P1
2 = 24Vdc @4mA reduces I/P2 by 50%, I/P1 is selected to produce O/P if I/P1 > I/P2

Front fascia green LED's show when output is forced from an input

Accuracy: $\pm 0.1\%$ span

Isolation: 1000V RMS Input(s)/Output/Supply/Earth

Input open circuit response: Downscale

Supply: 24Vdc ± 2.5 Vdc

Mounting: DIN Rail or stand-alone surface mounted.

Dimensions: 152w x 81h x 137d (mm)

Each input has its own span potentiometer to enable the outputs of the tacho in both the positive and negative directions to be matched. The output (the 0 to ± 10 V signal) has its own set of zero and span controls.