

ADC313 Two Input High / Low Signal Selector

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Non-Smart / Non-uProcessor based Type A instrument
- Supply voltage options: 115Vac ±20%
240Vac ±20%
24Vdc ±10%
48Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- HART compatible option available ('H' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Function

Retransmit the Highest or Lowest of two process input signals

Input Signals

Any current or voltage (DC) signal that can be fed into a PI network to produce a 400mV span. Current ranges up to 100mA (Passive port), Voltage ranges up to 150Vdc. The two inputs share a common internal 0V.

Typical Inputs:

Current 2x 4-20mA (impedance 20 ohms)
Voltage 2x 0-10Vdc (impedance 1M ohms)

Output

Any standard process current or voltage signal in range of;
Current source up to 22mA, Drive voltage 24Vdc.
Voltage source up to 10V. Max current 20mA.

Typical Output:

Current 4-20mA (max load 1200 ohms)
Voltage 0-10Vdc (min load 500 ohms)

Performance

Accuracy/Linearity: <±0.1% Span
Response Time: typically <100mS (0-100% step change)
Supply consumption: <3VA
Isolation: 1000V RMS* Input(s)/Output/Supply/Earth
*(500Vdc when RFI 'K' option is specified)

Environmental Conditions

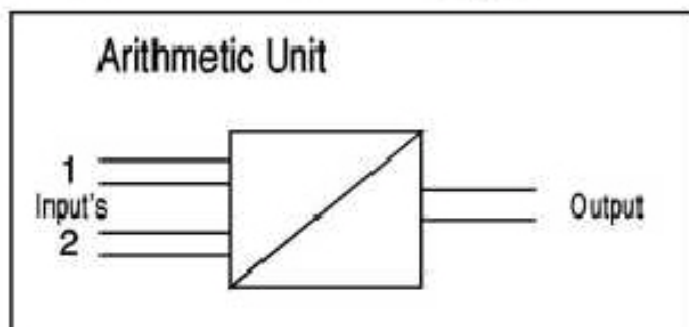
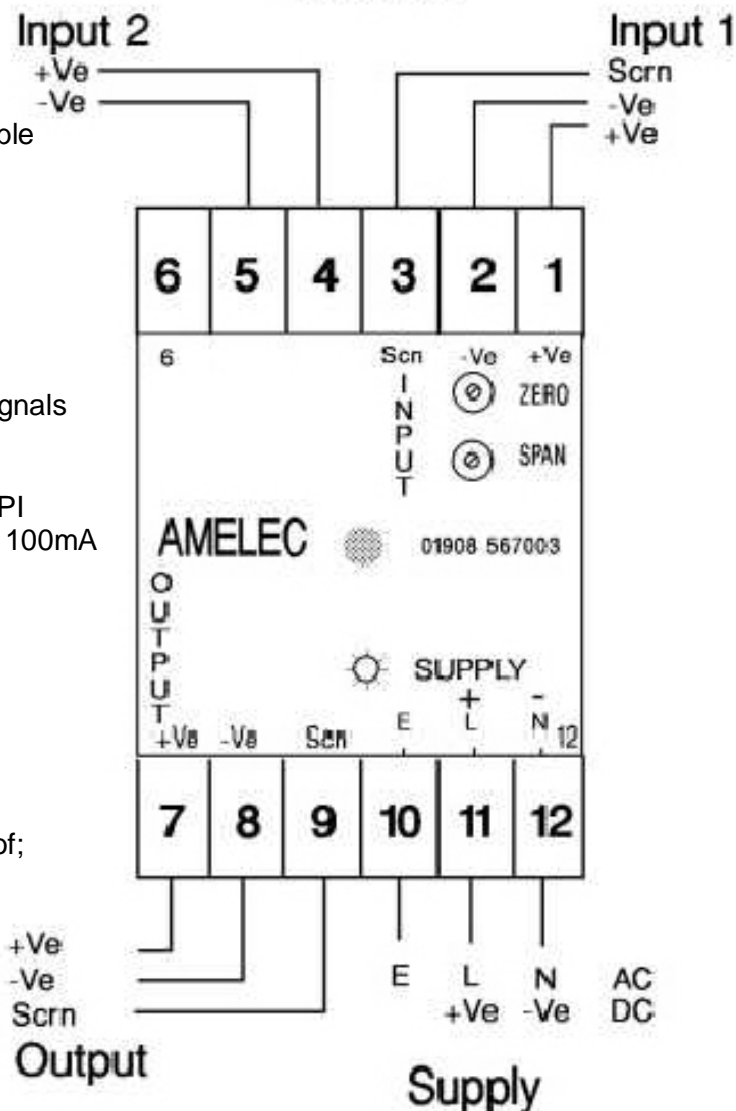
Storage Temperature: -40 to +70°C
Operating Ambient: -15 to +55°C
Relative Humidity: 5 – 95 RH (Non-Condensing)
EMC: 2014/30/EU , EN 61326-1:2013 (controlled EM)

Dimensions: 50w x 75h x 110d mm
(RFI 'K' option enclosure Dims: 50w x 75h x 182d mm)

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WIRING



Mounting: Either Din Rail (TS35) or Surface by corner fixing holes as standard