

ADC311X-7 Seven Way Signal Isolator / Splitter

- Suitable for use as element in SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications as 1oo1 architecture (HFT:0)
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- AMELEC Standard 10 year warranty
- Non-Smart / Non-uProcessor based, Type A instrument: ✓

Technical Specifications

Input

Any Uni- or Bi-directional DC voltage or current drive that can be terminated in a PI network to produce a 400mV span.
E.g: -10 to +10mA (impedance 40 Ω), -5 to +5Vdc (impedance 40 Ω)

Output

Any std Uni- or Bi-directional process voltage or current range;
Current source up to ± 40 mA, drive voltage ± 11 V
Voltage source up to ± 10 V, max current 40mA
E.g: 4-20mA (max load 500 Ω), -10 to +10mA (max load 1000 Ω),
-5 to +5Vdc (min load 125 Ω), -10V to +10Vdc (min load 250 Ω)

Isolation

1000V RMS Input/Outputs/Supply/Earth

Performance

Accuracy / Linearity: $\leq \pm 0.1\%$ span
Response time: < 100 mS (0-100% input step change)
Supply consumption: < 4 VA
Input over range: up to 300%
Output limit: up to approx 120%

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, EN61326-1:2013 (Controlled EM)

Mounting / Dimensions

Enclosure: 50w x 75h x 110d mm
Mounting: DIN Rail (TS35)
Weight: < 500 g

