

ADC312 Square Root Extractor

- Suitable for use in SIL 1, 2 & 3 rated (IEC61508) safety system loop applications
- Supply voltages: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 2.5V$
48Vdc $\pm 5V$
- RFI Protection to IEC61000-4-3 available (K option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage drive that can be terminated in a PI network to produce a 400mV span

Output

Any standard process current or voltage
Current source up to 20mA. Drive voltage 24Vdc.
Voltage source up to 10V. Max current 20mA.

Equation

Square Rooter

Isolation

1000 RMS. Input/Output/Supply/Earth

Accuracy:

4% > Input < 100%; $\pm 0.1\%$ span.

0.2% > Input < 4% ; $\pm 0.5\%$ span.

Low flow cut off at 0.1% of input span.

Environmental Conditions

Storage Temperature: -40 to 70°C

Operating Ambient: -15 to 55°C

Relative Humidity: 5 – 95 RH

Typical Input load:

1. Current 4-20mA 20 ohms
2. Voltage 0-10Vdc 1M ohm

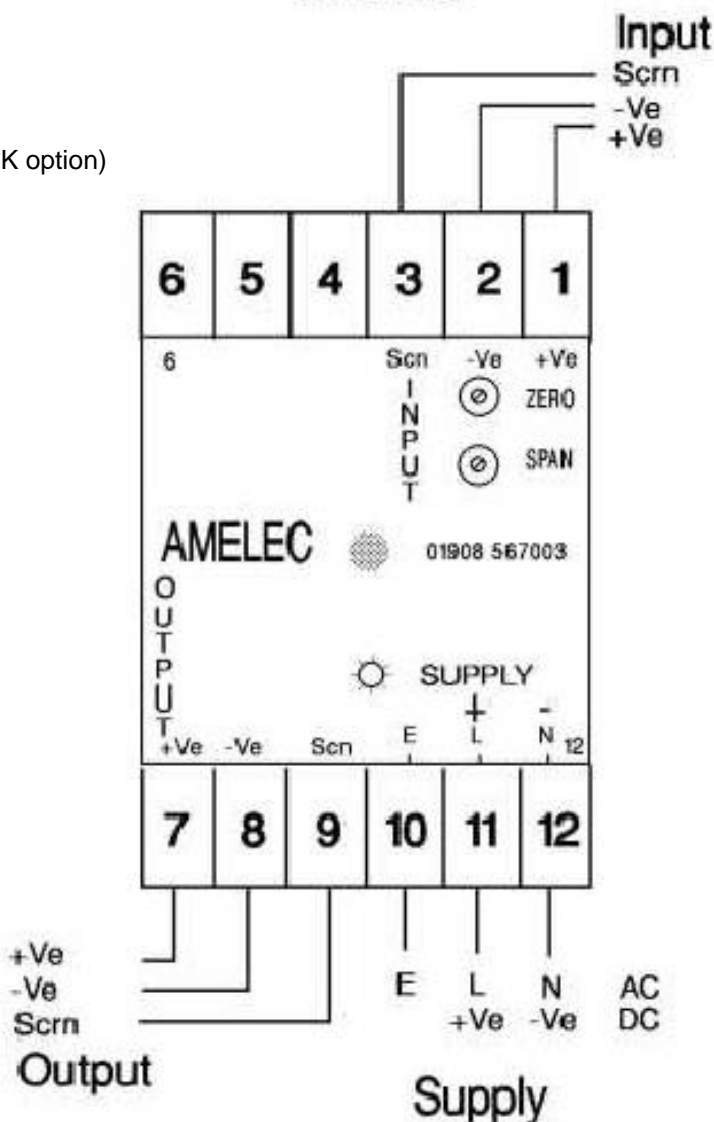
Typical Output drive:

1. Current 4-20mA max load 1200 ohms
2. Voltage 0-10Vdc min load 500 ohms

Dimensions:

50w x 75h x 110d mm

WIRING



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