

ADM230X 3 Wire input Signal Converter

- Suitable for SIL 1, SIL 2 & SIL 3 rated (IEC61508) safety system loop applications
- Supply voltages: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 2.5V$
48Vdc $\pm 5V$
110Vdc $\pm 20\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010 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.
Input Exc 12Vdc @ 30mA max

Output

Any standard process current or voltage
Current source up to 20mA. Drive voltage 24Vdc
(Current Sink option 30Vdc max external)
Voltage source up to 10V. Max current 20mA

Typical Output

Current: 4-20mA (Source port, max load 1200 Ω)
Voltage: 0-10Vdc (min load 500 Ω)

Isolation

1000V RMS Input/Output/Supply/Earth.

Accuracy/Linearity

Linearity: $< \pm 0.1\%$ Span
Accuracy: $< \pm 0.1\%$ Span

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH

Options

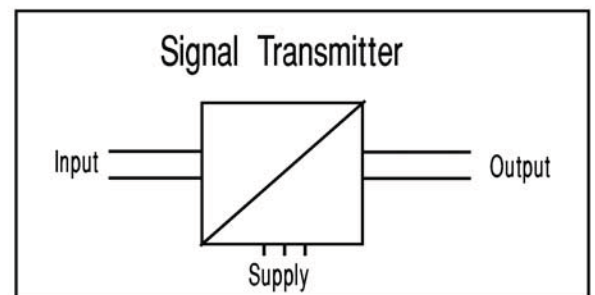
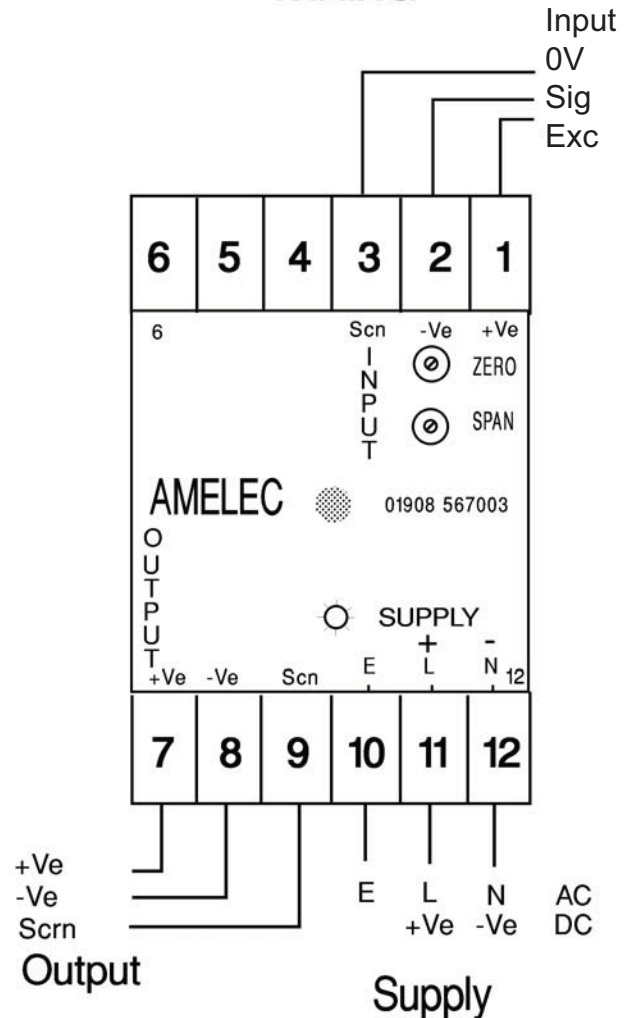
J = An input jack for injecting an external signal into the input without disturbing the original process loop.

DI = A 3½ digit display of the input or output in units to suit

K = RF Immunity: 20MHz-3GHz/5.25GHz 10V/m,
80MHz-1GHz/5.6GHz 30V/m (889MHz-1.75GHz 40V/m)

HV =High Voltage I/P ranges, up to 1000Vdc

WIRING



Mounting

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

Dimensions

50w x 75h x 110d (mm)

Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ