

ADM230X-SW Process I/V Signal Selector / Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (IEC61508-2) safety system loop applications
- Non-Smart/Non-uProcessor based, Type A instrument
- Supply voltage options: 24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Either 4-20mA (impedance 20 Ω) or 0-10Vdc (impedance 1M Ω) input may be specified, each channel selected by Toggle switch on front face

Output

Isolated repeat of the selected input signal;
Either 4-20mA (max load 1000 Ω) or 0-10Vdc (min load 500 Ω) may be specified.

Performance

Accuracy/Linearity: $\leq \pm 0.1\%$ Span
Response Time: typically $< 100\text{ms}$
Supply Regulation: DC $\pm 10\%$
Supply consumption: $< 3\text{VA}$

Protection

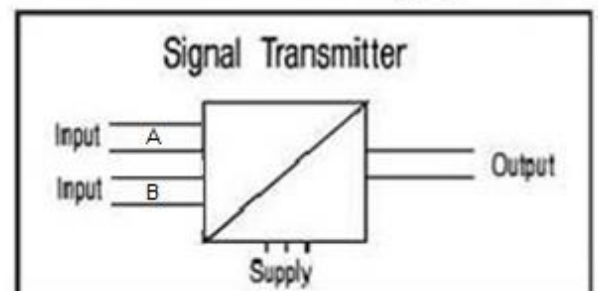
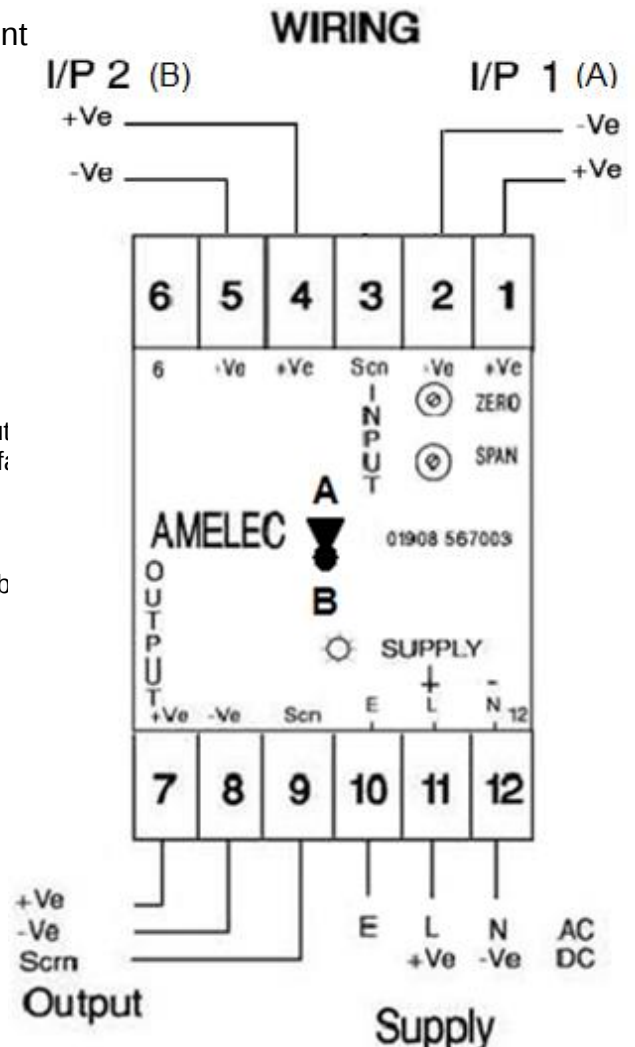
Isolation: 1000V RMS* Input(s)/Output/Supply/Earth.
*(500Vdc when 'K' option RFI protection is specified)
Internal Fuse
Input over range: up to typically 300%
Input Open Circuit response: Downscale drive as standard
(Input Open Circuit response Upscale drive option available)

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)

Option

K = EMC/EMI/RFI protection to the higher Generic Industrial levels, incl. RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$ (889MHz/1.75GHz $\leq 40\text{V/m}$)



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

Dimensions: 50w x 75h x 110d mm

(K option enclosure = 182d mm)

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