

ADM230X-3 Triple Channel Process I/V Transmitter / Isolator

- Suitable for use as element in SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) Safety Instrumented System (SIS) Loop applications
- Non-Smart / Non-uProcessor, Type A instrument
- Supply Voltage options **12Vdc, 24Vdc** or **48Vdc** ($\pm 10\%$)
- RFI Protection to EN 61000-4-3:2006/A2:2010 **option 'K'** available
- AMELEC Standard 10 year warranty

Technical Specifications (per channel)

Input

Any current or voltage (DC) drive that can be terminated in a PI Network, to produce a 400mV span.
 Current from 1mA span, up to 100mA max input (passive port)
 Voltage from 0.4V span, up to 150Vdc max (impedance $\geq 1M\Omega$)
 Typical Input: 4-20mA (impedance 20 Ω) or 0-10Vdc (impedance 1M Ω)

Output

Any standard process current or voltage
 Current source up to 22mA. Drive voltage 11Vdc
 Voltage source up to 10V. Max current 20mA
 Typical Output: 4-20mA (max load 500 Ω) or 0-10Vdc (min load 500 Ω)

Performance

Isolation: 1000V RMS* Input-Input/Output-Output/Supply/Earth
 (*500Vdc if 'K' option RFI Protection is specified)
 Accuracy/Linearity: $< \pm 0.1\%$ Span
 Response time: $< 100ms$
 Input Over range: $\leq 300\%$
 Input O/C response: Downscale drive
 Controls: Zero/Span potentiometers ($\pm 20\%$ span)
 Indicator: Power ON (Amber LED)
 DC Supply variation: $\pm 10\%$ as std

Environmental Conditions

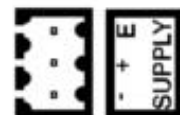
Storage Temperature: -40 to 70°C
 Operating Ambient: -15 to 55°C
 Relative Humidity: 5 – 95% RH
 EMC: 2014/30/EU , EN 61326-1:2013 (controlled)
 ('K' option: EMC/EMI/RFI protection to highest Generic Industrial Standards Test levels)

Mounting/Dimensions:

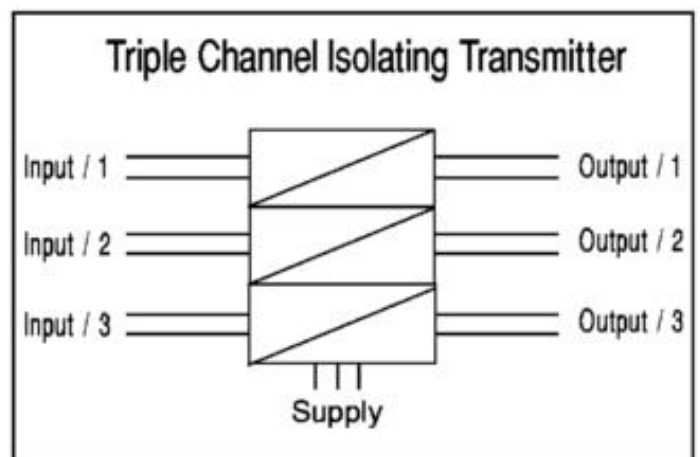
Din Rail (TS35) or Surface by corner fixing holes
 Enclosure: 50w x 75h x 110d mm

'K' option: 50w x 75h x 182d mm enclosure (with optional Surface/Seismic mounting Keyhole plate) & RF immunity to: 20MHz-3GHz/5.25GHz $\leq 10V/m$, 80MHz-1GHz/5.6GHz $\leq 30V/m$, 889MHz/1.75GHz $\leq 40V/m$

WIRING



Supply wiring under side of housing via BL 3.5/3 way WEIDMULLER connector. Which is free issued.



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