

ADC313X-R Auto Signal Selector

- Supply voltage options: 24Vdc / 115Vac / 230Vac
- RFI protection to IEC61000-4-3:2006/A2:2010 available
- Amelec standard 10 year warranty
- Suitable for SIL 1, 2, & 3 (IEC 61508-2) applications

FUNCTION

Primarily output to represent input 1 and switch to input 2 in case of loss of input 1. Once input 1 recovers the output will switch back to input 1. Relay output to indicate fault on loss of input 1.

TECHNICAL SPECIFICATION

INPUT 1 & 2

DC current / voltage can be specified in the range of:
Current up to 100mA max (Passive)
Voltage 0.4 to 150V dc max
Typical input: 2 x 4 - 20mA (Passive, impedance 20Ω)
Note: Inputs will have a Common internal 0V.

OPTION R - VOLT FREE CONTACTS

Volt free contacts. (Wetted by 24Vdc @ 10mA Max)
Open contact = Loss of Input 1 (<3.5mA)
Closed contact = Input 1 Healthy

OUTPUT

DC current or voltage specified in the range of:
Current up to 100mA max in Sink configuration (externally powered)
Current up 22mA max Source configuration (Internally powered)
Voltage any from 0.4 to 20V max @ up to 20mA.
Typical output range: 4-20mA (Source, max 1200Ω load)

CONTROLS

Zero / Span (+/- 20%): 15 turn potentiometers for output loop calibration.

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

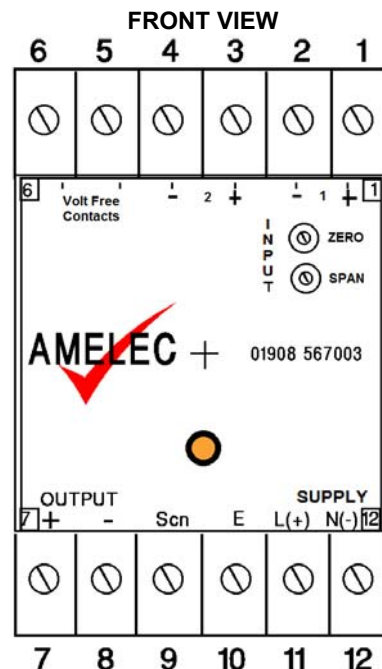
Linearity: < ±0.1%
Response time: Typically <100mS
Accuracy: < ±0.1%

PROTECTION

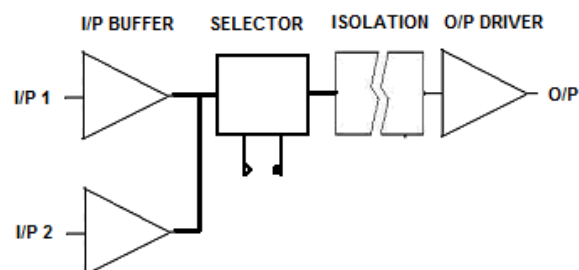
Input O/C response: Downscale drive
Isolation 1000V RMS* Input(s)/Output/Supply/Earth
*(500Vdc if 'K' option specified)
Internal Fuse.
Input over range up to typically 300%.

TERMINATION

I/P 1 +	1
I/P 1 -	2
I/P 2 +	3
I/P 2 -	4
V Free Contact	5
V Free Contact	6
OUTPUT +	7
OUTPUT -	8
Scn	9
Earth	10
Live / +	11
Neutral / -	12



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

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

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d mm
Mounting: Din rail (TS35) or Surface by corner fixing holes
Weight < 200g
(*K' option enclosure Dims = 50w x 75h x 182d mm)

ADD ON / OPTIONS

DI: LCD display for local monitoring
P: Test point
Non standard Power supply ranges available