

ADC313X Signal Selector

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

APPLICATION

- In case of line fault / maintenance the output can be switched remotely to second input to reduce downtime and for speed.

TECHNICAL SPECIFICATION

INPUT 1

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

INPUT 2

Any potentiometer in the range of 1k to 10K can be specified.
Typical Input: 5k potentiometer.

VOLT FREE CONTACTS

Volt free contacts. (Wetted by 24Vdc @ 10mA Max)
Other voltage or current available on request.
Open = Input 1 Closed = Input 2

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)

CONTROLS

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

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: < $\pm 0.1\%$
Response time: Typically < 400ms
Accuracy: < $\pm 0.1\%$

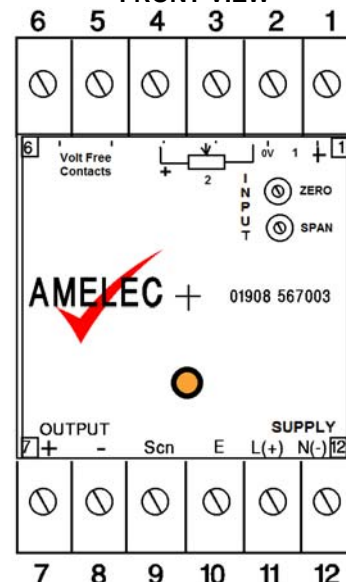
PROTECTION

Input O/C drive downscale
Isolation 1000V RMS. Input/Output/Supply/Earth
Internal Fuse.
Input over range up to typically 300%.

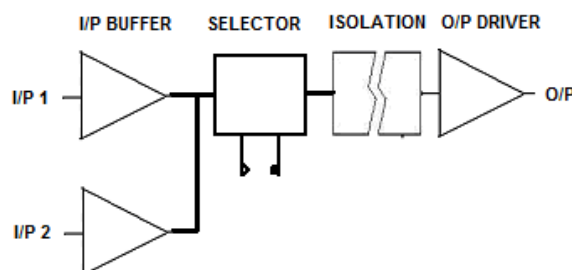
TERMINATION

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

FRONT VIEW



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
Mounting: Din rail / Surface (optional Panel Mount)
Weight < 200g

ADD ON / OPTIONS

DI: LCD display for local monitoring
J : Input injection jack socket
P: Test point
Non standard Power supply ranges available