ADC313X Process Signal Selector / Isolator – Via Remote Contact selection

- Supply voltage options: 24Vdc / 115Vac / 230Vac
- RFI protection to EN 61000-4-3:2006/A2:2010 available
- Amelec standard 10 year warranty
- Suitable for SIL 1, 2, & 3 (EN 61508-2) loop applications
- Non-Smart / Non-uProcessor based, Type A instrument

APPLICATION

- In case of line fault or maintenance requirements, the output can be switched remotely from one input to the other, to continue operations/ reduce downtime.

TECHNICAL SPECIFICATION

INPUT 1 & 2

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

VOLT FREE CONTACTS

Volt free contacts. (Wetted by 24Vdc @ 10mA Max)
Open contact = Input 1 routed through to the output
Closed contact = Input 2 routed through to the output

OUTPUT

DC current or voltage may be specified in the range of:
Current up to 100mA max in Sink configuration (externally powered)
Current up to 22mA max in Source configuration (Internally powered)
Voltage up to 20Vdc max @ up to 20mA.
Typical output range: 4-20mA (Source, max 550Ω load)

CONTROLS

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

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Accuracy/Linearity: < ±0.1% span
Response time: Typically <100mS (0-100% input step change)

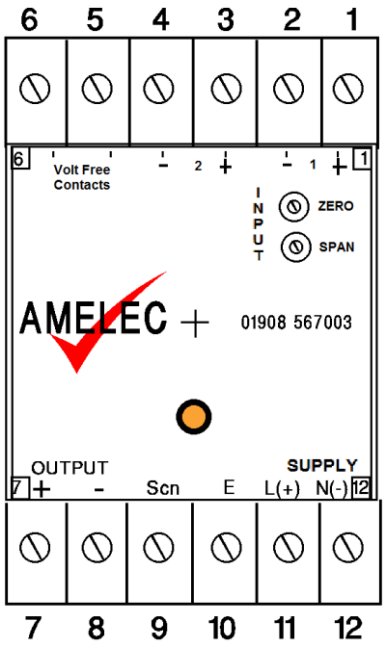
PROTECTION

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%.

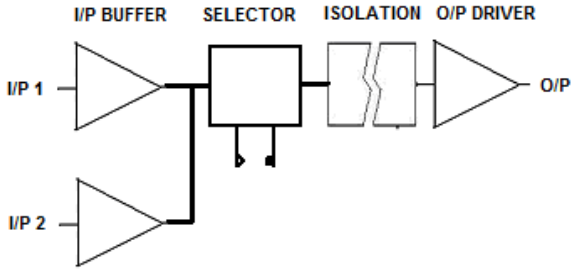
TERMINATION

I/P 1 +	1
I/P 1 -	2
I/P 2 +	3
I/P 2 -	4
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 CONDITIONS

Storage temperature: - 40 to +70℃
Operating Ambient: -15 to +55℃
Relative Humidity: 5 to 95% RH (Non-Condensing)
EMC: 2014/30/EU , EN 61326-1:2013 (Controlled EM)

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 of selected channel
P: Output Test Point
K: Full RFI Protection to EN61000-4-3:2006/A2:2010

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