

ADW132 Loop Powered Trip Amplifier

- Suitable for 4-20mA Loops
- Loop Voltage: 10 to 30Vdc
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

Any application where 4-20mA is required to be monitored and auxiliary supply is not available.

TECHNICAL SPECIFICATION

FUNCTION

Trip High = Input > Set point 1

Trip Low = Input < Set point 2

Any combination of High/Low can be specified.

INPUT

Minimum loop currents: 2.5mA ... 3.5mA

Maximum loop currents: 22mA ... 26mA

Minimum loop voltage: 12V

Maximum loop voltage: 30V

OUTPUT

DPCO contacts, rated at 250VAC, 2A, 60VA resistive.

CONTROLS

Trip 1 & 2: 2 x 15 turn blindset potentiometers to set the setpoints.

INDICATOR

Power ON: LED, Amber.

Relay status: LED, Red.

PERFORMANCE

Trip settability: better than $\pm 1\%$

Trip repeatability: better than $\pm 0.1\%$

Response time: Typically < 400mS

Dead band: Typically < 1%

PROTECTION

Isolation 1000V RMS. Inputs/Contacts/Earth

Internal Fuse.

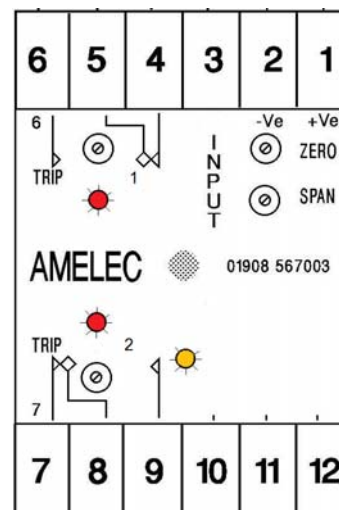
Failsafe Relay on loss of Input

Input over range up to typically 120%.

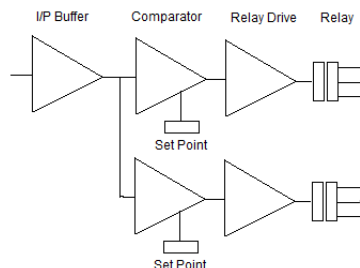
TERMINATION

INPUT 1 +	1
COMM 0V	2
Scn	3
RL1a-NC	4
RL1a-COM	5
RL1a-NO	6
RL1b-NC	7
RL1b-COM	8
RL1b-NO	9
Earth	10
	11
	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 < 300g

ADD ON / OPTIONS

J : Input injection jack socket

P: Test point (Trip set point monitoring)

K: RFI protection to IEC801-3

Non standard Loop V & I ranges available