

ADW132-3W 3 Wire Loop Powered Trip Amplifier

- Suitable for 4-20mA Loops
- Loop Voltage supply: 21 to 30Vdc
- Amelec standard 10 year warranty
- Suitable for SIL1 & SIL2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0).

APPLICATION

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

TECHNICAL SPECIFICATION

FUNCTION

Trip1 High = Input > Set point 1
Relay De-Energises (Fail safe), LED Extinguished

Trip2 Low = Input < Set point 2
Relay De-Energise (Fail safe), LED Extinguished

INPUT

Minimum loop currents: 15mA
Maximum loop currents: 35mA
Minimum loop voltage: 21V
Maximum loop voltage: 30V

OUTPUT RELAYS

SPCO contacts, rated at 250VAC, 2A, 30VA resistive.

CONTROLS

Trip 1 & 2: 15-turn blindset Set Point potentiometers

INDICATORS

Power **ON**: LED, Amber.
Relay status: LED, Red. (**ON** Energised)

PERFORMANCE

Trip settability: < ±1%
Trip repeatability: < ±0.1%
Response time: Typically ≤100mS (0-100% step)
Dead band: Typically 1% span hysteresis as std

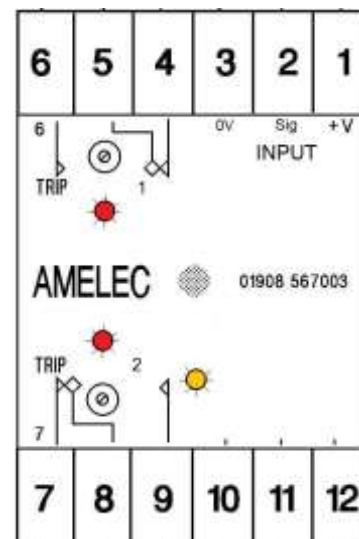
PROTECTION

Isolation 1000V RMS. Input/Contacts
Internal Fuse.
Fail-safe Relay on loss of Input loop supply
Input over range up to typically 120%.

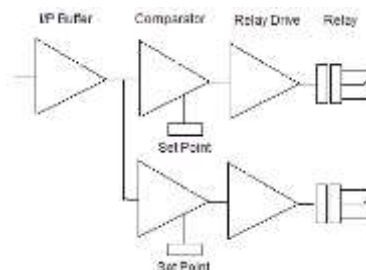
TERMINATION

| | |
|----------------|----|
| 24Vdc + | 1 |
| Sig (4 - 20mA) | 2 |
| COMM 0V | 3 |
| RL1-NC | 4 |
| RL1-COM | 5 |
| RL1-NO | 6 |
| RL2-NC | 7 |
| RL2-COM | 8 |
| RL2-NO | 9 |
| | 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 (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d mm
(145d with 'DI' Option, 182d with 'K' option)
Mounting: Din rail / Surface (optional Front of Panel mounting)
Weight < 300g

ADD ON / OPTIONS

DI: 3.5 Digit LCD display (Input only).
P: Test point (Trip set point monitoring)
K: RFI protection to EN 61000-4-3:2006/A2:2010