

ADT132DIKX (Bi-Polar Input) Process Trip Amplifier with Display

- Suitable for any Bi-Polar process input
- Supply voltage: 24V or 48Vdc $\pm 10\%$
- Amelec standard 10 year warranty
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2) rated loops
- RFI Protection to IEC61000-4-3:2006/ A2:2010

APPLICATION

Any application where a process input current or voltage (DC) signal is required to be monitored, and raise alarms if the input rises or falls more than the set points.

TECHNICAL SPECIFICATION

FUNCTION

Trip = Input < Set point (Low trip)

Trip = Input > Set point (High Trip)

Any combination of High/Low trip action can be specified.

INPUT

DC current / voltage can be specified in the range of:

Current up to 100mA max (Passive port)

Voltage up to $\pm 100\text{Vdc}$ max

Typical input: -11.5V to $+11.5\text{Vdc}$

OUTPUT

1 x SPCO contacts per trip point, rated at 250VAC, 2A, 100VA resistive.

CONTROLS

Zero / Span: Fifteen-turn potentiometers to set internal input reference (Factory set).

Trip 1 & 2: Fifteen-turn blindset potentiometers to set trip points in the range of 0 to 110% calibrated span.

INDICATOR

Power ON: LED, Amber.

Relay status: LED, Red.

Display of Input signal on a 3.5 up to 4.5 digit LED Display.

Front fascia toggle switch shows the trip set points. Any scale of engineering units can be specified in the range -19999 to +19999

PERFORMANCE

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

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

Restricted Trip Set Point adjustments available on request

Response time: Typically < 200mS

Dead band: Typically 1% (Other Bands available on request)

Supply consumption: <2VA

PROTECTION

Isolation: 500Vdc Input/Contacts/Contacts/Supply/Earth

Internal Fuse.

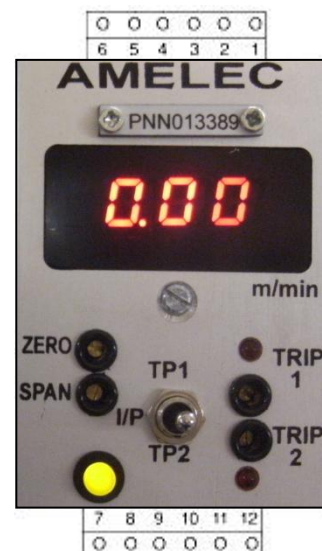
Failsafe: Relays De-energise on Trip & Loss of Power

Input over range up to typically 300%.

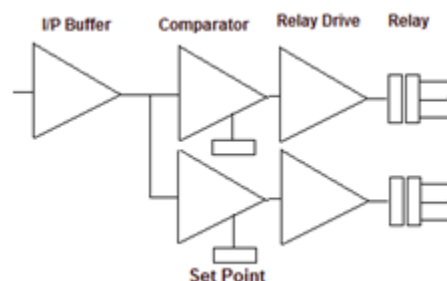
TERMINATION

| | |
|-------------|----|
| I/P + | 1 |
| I/P - | 2 |
| Scn | 3 |
| RL1-NC | 4 |
| RL1-COM | 5 |
| RL1-NO | 6 |
| RL2-NC | 7 |
| RL2-COM | 8 |
| RL2-NO | 9 |
| Earth | 10 |
| Live / + | 11 |
| Neutral / - | 12 |

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

Storage temperature: -40 to $+70^\circ\text{C}$

Operating Ambient: -15 to $+55^\circ\text{C}$

Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 182d mm

Mounting options: Din rail (TS35) / Surface by seismic

Keyhole (50w x 130h mm) plate / Front Panel (57w x 96h bezel)

Weight < 300g

ADD ON / OPTIONS

J : Input injection jack socket

P: Test point (Trip set point monitoring)