

ADT132DI (BI)(M)(V)(X)(K)(T)(J)(L) Process Trip Amplifier with Display

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) Safety Instrumented System (SIS) loop applications
- Non Smart/Non-uProcessor based, Type A instrument
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - 240Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- Other Special Supply options available on request ('X' option)
- RFI Protection to EN 61000-4-3:2006/A2:2010 ('K' option) available
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage drive that can be terminated in a PI network to produce a 400mV span.

(24Vdc @22mA two-wire Input loop Excitation, 'M' option available)

Input injection Jack 'J' option available to enable the input loop to be overridden and an external current source to be injected.

Note: the original process loop integrity is maintained.

Outputs

Each Trip output has a set of changeover contacts, rated at 250VAC, 3A, 100VA resistive. (Latching relay options also available, 'L' option)

Red LED indication of each Relay status

(Red/Green 'BI'-colour LED status indicators optional)

Relays De-energise on Trip & Fail Safe on loss of power as standard

Display of the Input range on a 3½ digit Front LCD as standard

Front fascia toggle switch or Read buttons show the trip set points within the scale on the display, Calibration Range: -1999 to +1999

(up to 4½ Digit Red LED Display option available on request)

Performance

Isolation: 1000V RMS* Input/Contacts/Contacts/Supply/Earth
 *(500Vdc when 'K' option is specified)

Deadband: Fixed 1% std (variable 1-20% span, 'V' option available)

Trip Settability/Repeatability: $\pm 0.1\%$ span

Response time: <100mS (0-100% input step change)

(Fixed or Adjustable Time Delay into Trip: 'T' option available)

Input O/C response: Downscale drive as standard

(O/C response Upscale drive, 'X' option available)

Consumption: $\leq 3VA$

Environmental Conditions

Storage Temperature: -40 to +70°C

Operating Ambient: -15 to +55°C

Relative Humidity: 5 – 95% RH (Non-Condensing)

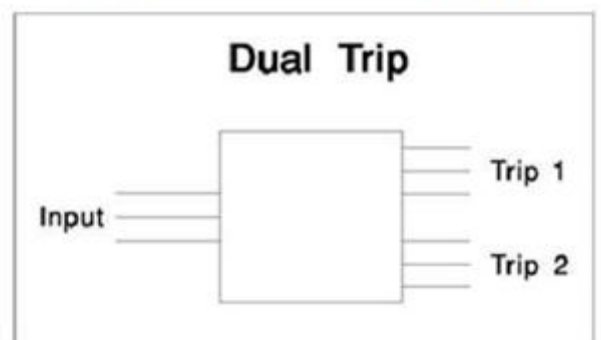
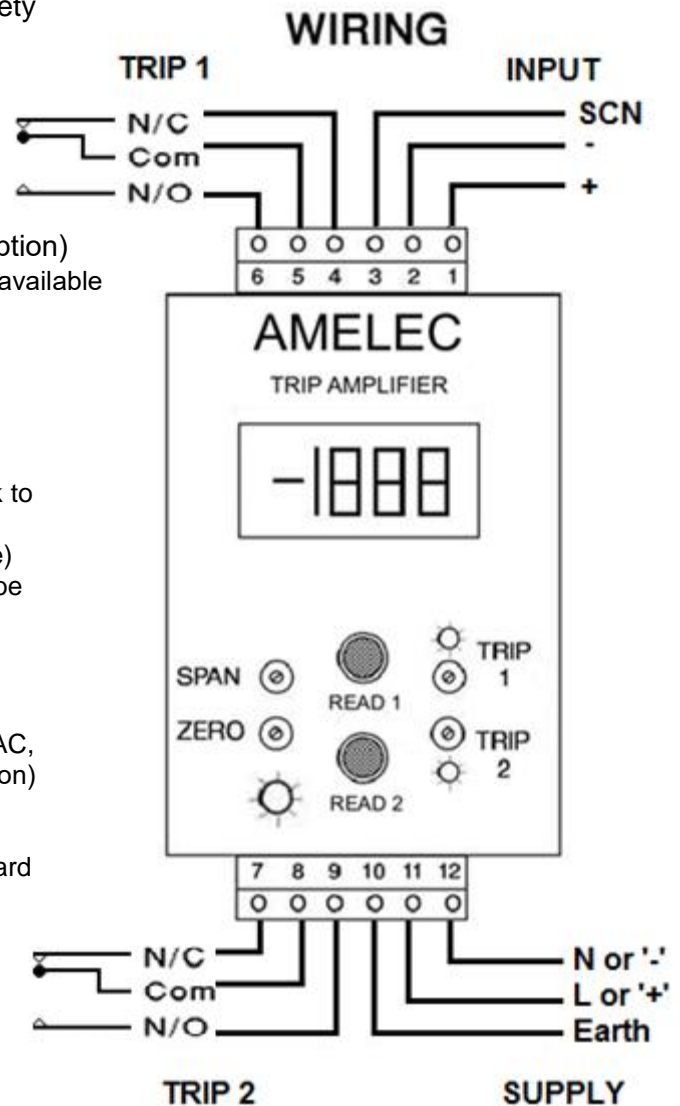
EMC: 2014/30/EU, EN 61326-1:2013 ('K' option to Generic Industrial levels)

'K' option RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10V/m$,
 80MHz-1GHz/5.6GHz $\leq 30V/m$, 889MHz/1.75GHz $\leq 40V/m$.

Customer Termination

Fixed screw terminals towards rear of enclosure as standard

(Plug-in terminals available on request)



Mounting/Dimensions

'DI' Enclosure Dims: 50w x 75h x 145d mm

(RFI 'K' option enclosure = 182d mm)

Din Rail (TS35) mounting as Standard.

Seismic/Surface Keyhole plate (50w x 130h mm) & Front of Panel options also available on request.

(Bezel Dims: 57w x 96h, Cut out Dims: 51w x 76h mm)

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