

## ADT132V Process Trip Amplifier – Aughton Automation

- Suitable for SIL 1 & **SIL 2** rated (EN 61508-2) Safety Instrumented System (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options: 115Vac  $\pm 20\%$   
240Vac  $\pm 20\%$   
24Vdc  $\pm 10\%$   
48Vdc  $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- Digital Indication of Input & Trip Set Points available ('DI' option)
- 24Vdc @22mA two-wire Input loop Excitation available ('M' option)
- Fixed or Variable Time Delay into Trip available ('T' option)
- Latching Relay(s) with local Reset facility available ('L' option)
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

Any current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span. Current up to 100mA max input (passive port), Voltage up to 150Vdc max (impedance 1M $\Omega$ )

#### Relay Outputs

Each trip output is a set of changeover contacts, rated at 250VAC, 2A, 100VA resistive. Trip1 & Trip2 Set points adjustable by 15-Turn blindset potentiometers through Front fascia, turning Clockwise for 0-100% of input range. Relays De-energise on Trip & Fail Safe on loss of power as std. Red LED indication of each Relay Status; ON Energised, Extinguished in Trip/De-energised state)

#### Deadbands

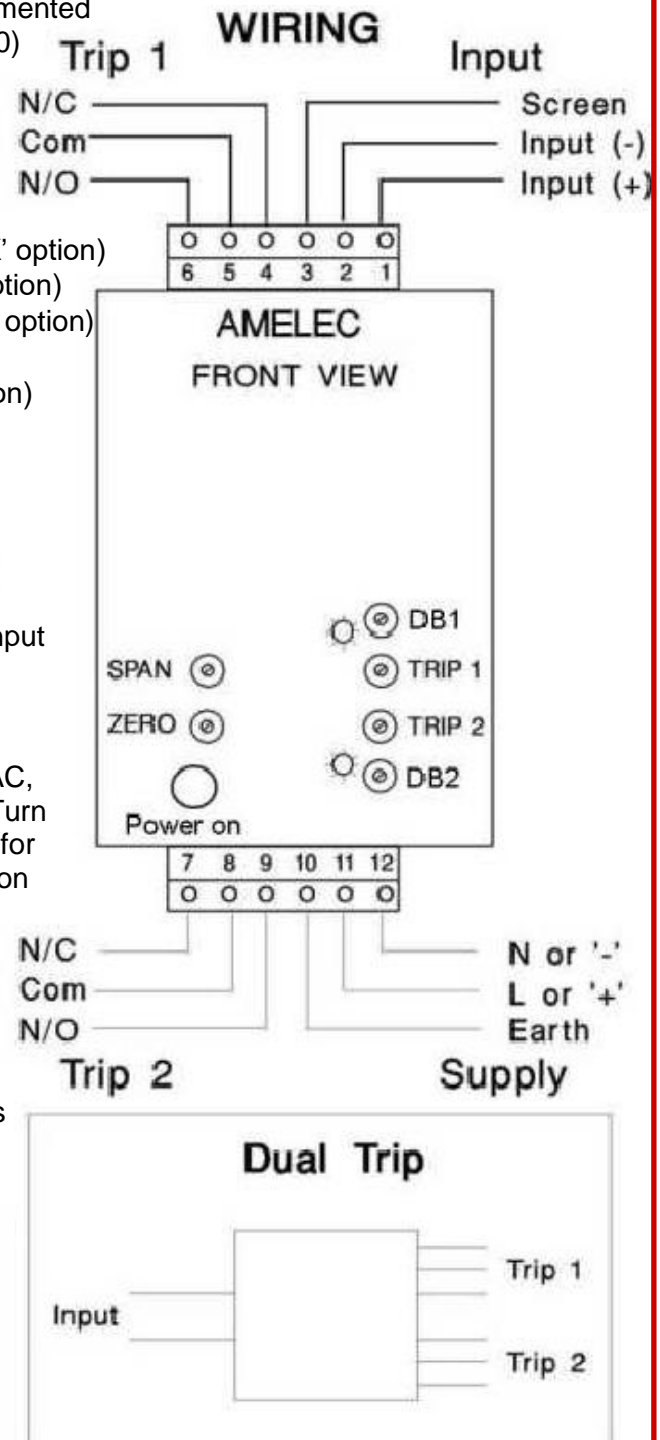
Adjustable Hysteresis 0.5 to 20% of span as std, although 0.5 to 10% or 30% of span options may be specified. DB1 & DB2 Reset points adjustable by 15-Turn blindset potentiometers through Front fascia, turning Anti-clockwise from min to max.

#### Performance

Trip settability:  $\pm 1\%$  span  
 Trip repeatability:  $\pm 0.1\%$  span  
 Response time: <100mS (0-100% input step change)  
 Isolation: 1000V RMS\* Input/Contacts/Contacts/Supply/Earth  
 \*(500Vdc if 'K' option RFI protection specified)  
 Input Open Circuit response Downscale drive as std  
 (Input O/C response Upscale drive option 'X' available)

#### 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 (Controlled EM)\*\*  
 \*\*('K' option to the highest EMC/EMI/RFI Generic Industrial levels)



#### Enclosure Dimensions & Mounting

50w x 75h x 145d mm ('K' option =182d mm)

TS35 Din Rail mounting as std, Surface by seismic Keyhole plate option available on request. Customer connections via screw terminals towards rear of top & bottom surfaces.

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