

# **AST132 Process I/V Trip Amplifier with two set points**

- 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: 24Vdc ±2.5V

48Vdc ±5V

AMELEC Standard 10 year warranty

## **Technical Specifications**

#### Input

Any DC voltage or current process signals, which can be routed into a pi network to develop a 400mV span.

Current ranges up to 100mA max input (passive port) Voltage ranges up to 150Vdc max (impedance  $\geq$ 1M $\Omega$ ) Typical Input: 4-20mA (impedance 20 $\Omega$ ) or 0-10Vdc (impedance 1M $\Omega$ )

#### Relay Outputs

Each Trip output is a set of changeover contacts (S.P.C.O) rated at 250VAC. 2A. 100VA resistive.

Fail Safe Relays, De-energise on Trip & on Loss of Power as standard. Any combination Hi-Lo, Hi-Hi, Lo-Hi or Lo-Lo Trip action may be specified. Red LED indication of each relay status; LED ON Energised/healthy, Extinguished in Trip/De-energised state as standard.

#### Isolation

1000V RMS Input/Contacts/Contacts/Supply

#### Performance

Trip settability: ±1%
Trip repeatability: ±0.1%

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

Deadband: Fixed 1% Span as std (other Hysteresis ranges available)

Input Open Circuit response: Downscale drive as standard

(O/C Upscale drive available on request – 'X' option)

Consumption: <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 (Controlled EM)

#### Dimensions

22.5w x 75h x 110d mm

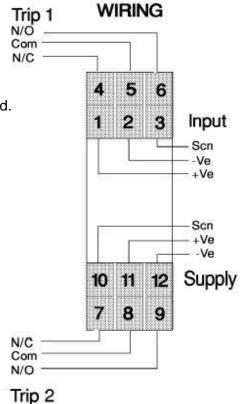
#### Mounting

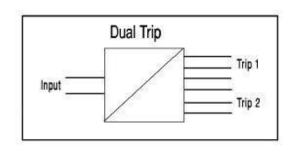
Din Rail (TS35)

#### <u>Customer Termination</u>

Fixed screw terminals







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