AST131 Process I/V Trip Amplifier with single set point

- 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 ±10%
  48Vdc ±10%
- 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 as standard (passive port)
Voltage ranges up to 150Vdc max (impedance ≥1MΩ)
Typical Input: 4-20mA (impedance 20Ω) or 0-10Vdc (impedance 1MΩ)

(Other/Higher Current input ranges available on request – 'DCI' option)

Relay Outputs
Trip output is two sets of changeover contacts (D.P.C.O), rated at 250VAC, 2A, 100VA resistive.
Fail Safe Relays, De-energise on Trip & on Loss of Power as standard.
High (rising) or Low (falling) Trip action may be specified.
Red LED indication of relay status; LED ON when Energised/ healthy, Extinguished in Trip/ De-energised state as standard.

Isolation
1000V RMS Input/Contacts-Contacts/Supply

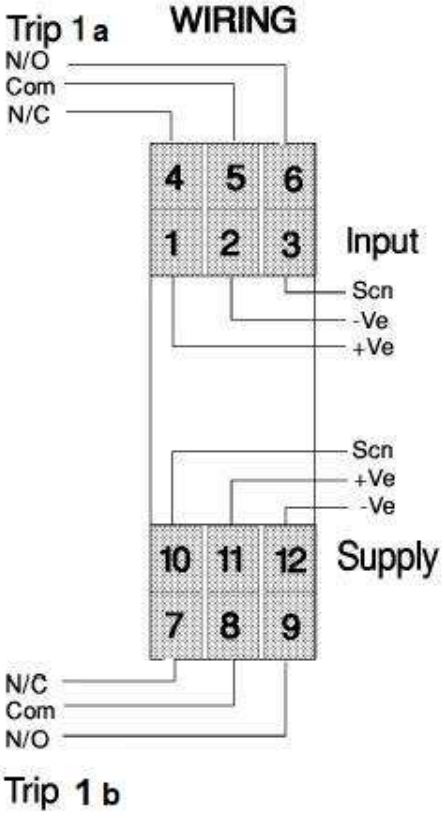
Performance
Trip settability: ±1%
Trip repeatability: ±0.1%
Response time: <100mS (0-100% input step change)
Deadband: Fixed 1% Span as std (other Fixed Hysteresis ranges available)
Input Open Circuit response: Downscale drive as standard
(O/C Upscale drive available on request – 'X' option)
Consumption: <3VA

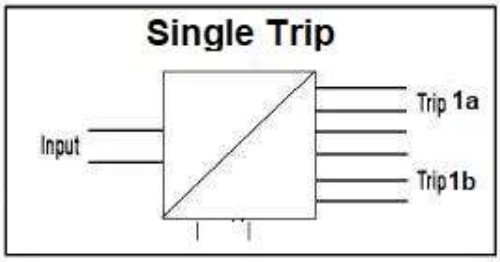
Environmental Conditions
Storage Temperature: -40 to +70°C
Operating Ambient: -15 to +55°C
Relative Humidity: 5 – 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)

Dimensions
22.5w x 75h x 110d mm

Mounting
Din Rail (TS35)

Customer Termination
Fixed screw terminals





Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ

Issue 5b: 2020