AST133X Dual Channel Process Trip with single 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 ±10%
  48Vdc ±10%
- AMELEC Standard 10 year warranty

Technical Specifications

Input
Any continuous or Switching DC voltage or current process signals may be specified, which can be routed into a pi network to develop a 400mV span. Inputs share a common internal 0V reference, so should be isolated from each other at source as std.

Current ranges or levels up to 100mA max input (passive port)
Voltage ranges or levels up to 150Vdc max (impedance ≥1MΩ)
Typical Input: 4-20mA (impedance 20Ω) or 0 / 24Vdc switching (impedance 1MΩ)

Relay Outputs
Each channel 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 of High or Low level Trip action may be specified.
Red LED indication of each relay status; LED ON Energised/healthy, Extinguished in Trip/De-energised state as standard.

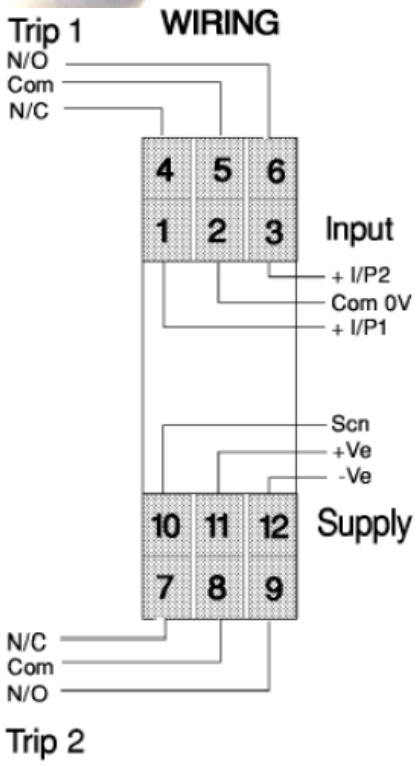
Isolation
1000V RMS Input(s)/Contacts/Contacts/Supply

Performance
Trip settability: ±1%
Trip repeatability: ±0.1%
Response time: <100mS (0-100% input step change)
Deadband: Fixed 1% Span 0r 50% switching Voltage threshold as std
(other Hysteresis ranges or settings available on request)
Input Open Circuit response: Downscale drive as standard
(O/C Upscale drive available on request – 'X' option)
Consumption: <3VA

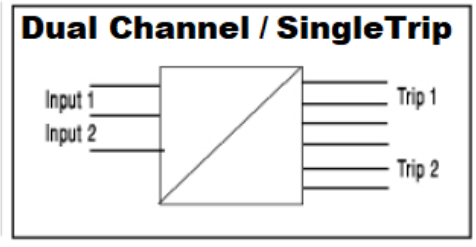
Environmental Conditions
Storage Temperature: -40 to +70°C
Operating Ambient: -15 to +55°C
Relative Humidity: 5 – 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)

Enclosure Dimensions / Termination
22.5w x 75h x 110d mm, with front Fixed screw terminals

Mounting
Din Rail (TS35)



Trip mode jumper position
SW1
Energise on Input high.
De-energise on input high.



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