

ADT171 Strain Gauge Single Trip Amplifier

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply Voltage options: 20Vac $\pm 20\%$
115Vac $\pm 20\%$
230Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- Front fascia Digital Display available ('DI' Option)
- Non-Smart/Non-uProcessor based Type A instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any mV signal range from a Strain, Load or Pressure sensor, with Minimum Span 4mV.
Excitation 10Vdc at up to 30mA as std.
(Other excitation voltages available on request)

Output

TRIP Relay Output is a C.O + S.P.C.O contact set, rated at 250VAC, 2A, 100VA resistive.
Red LED indication of relay contacts status; **ON** Energised/healthy, Extinguished in Trip / De-energised state as std.

Isolation

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

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: $< 100\text{ms}$
Deadband: 1% Span as std.
(Variable 0.5%-20% hysteresis available - 'V' option)
Input Open Circuit response: Upscale drive as std
(O/C Downscale drive may be requested)

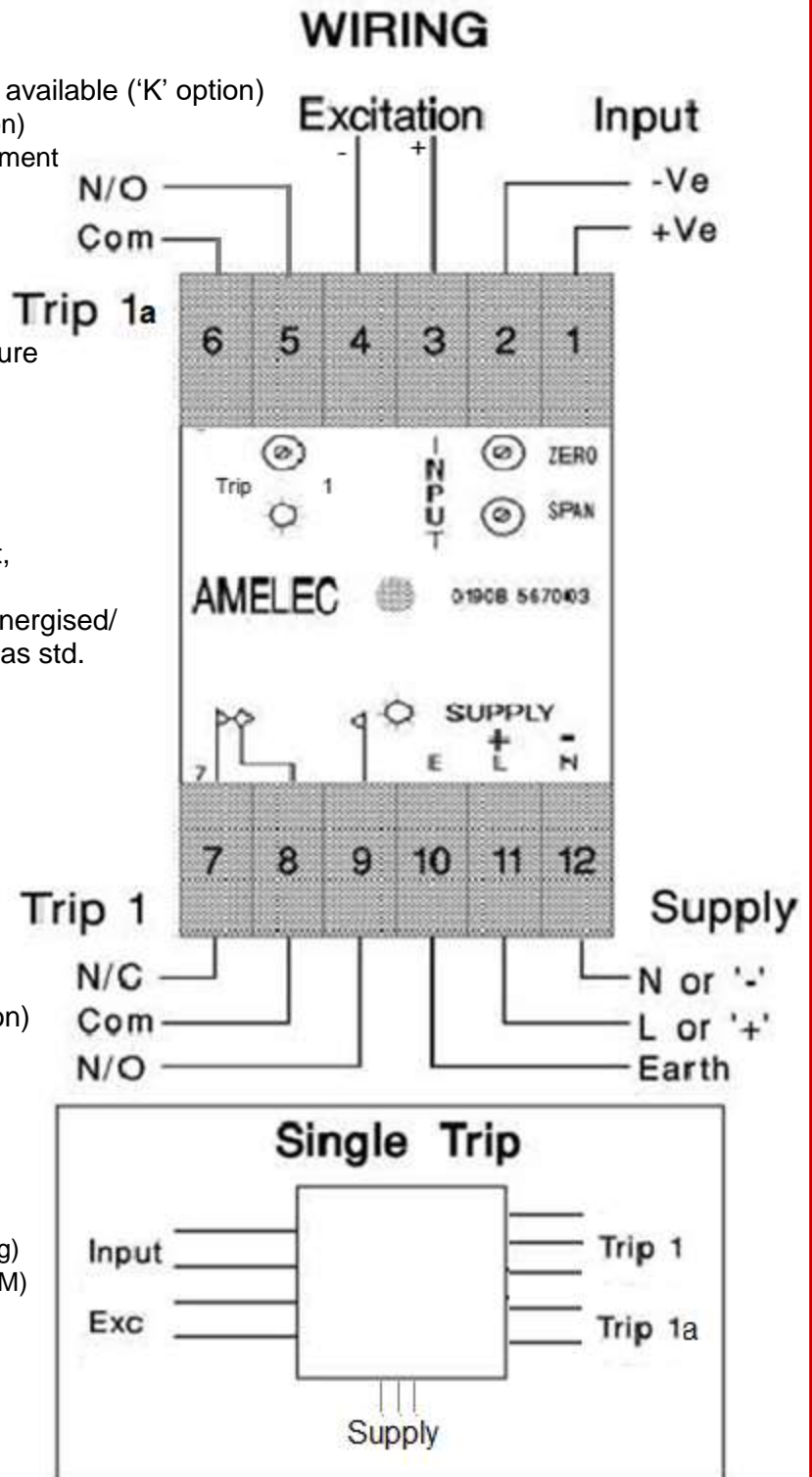
Environmental Conditions

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 Generic Industrial levels)

Enclosure Dimensions / Mounting

50w x 75h x 110d mm ('K' option = 182d mm)

Din Rail (TS35) or Surface by corner fixing holes.
(‘K’ option: Din Rail or Surface by Keyhole plate)



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