

## ADT171K Strain Gauge Trip Amplifier with single set point

- Suitable for SIL 1 & 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- 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
- Front fascia Digital Display 'DI' option available
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

Any mV input range, up to 400mV, with a minimum 4mV span.  
Excitation: 10Vdc @30mA standard (5V / 24V options available)

#### Output

The TRIP Output is a set of S.P.C.O. relay contacts, rated at 250VAC, 2A, 100VA (resistive).  
Relay Status indicator: Red LED ON = Energised / healthy

#### Isolation

500Vdc Input/Excitation/Contacts/Supply/Earth

#### Performance

Trip settability:  $\pm 1\%$   
Trip repeatability:  $\pm 0.1\%$   
Deadband: Fixed nom. 1% span as standard  
(0.5-20% Variable hysteresis 'V' option available if required)  
Fail Safe as std: Relay De-energises on Trip & Loss of Power

#### Response time (Trip set at 50%)

<200mS for a 10 to 90% step for the breaking of the normally closed contact

#### Environmental Conditions

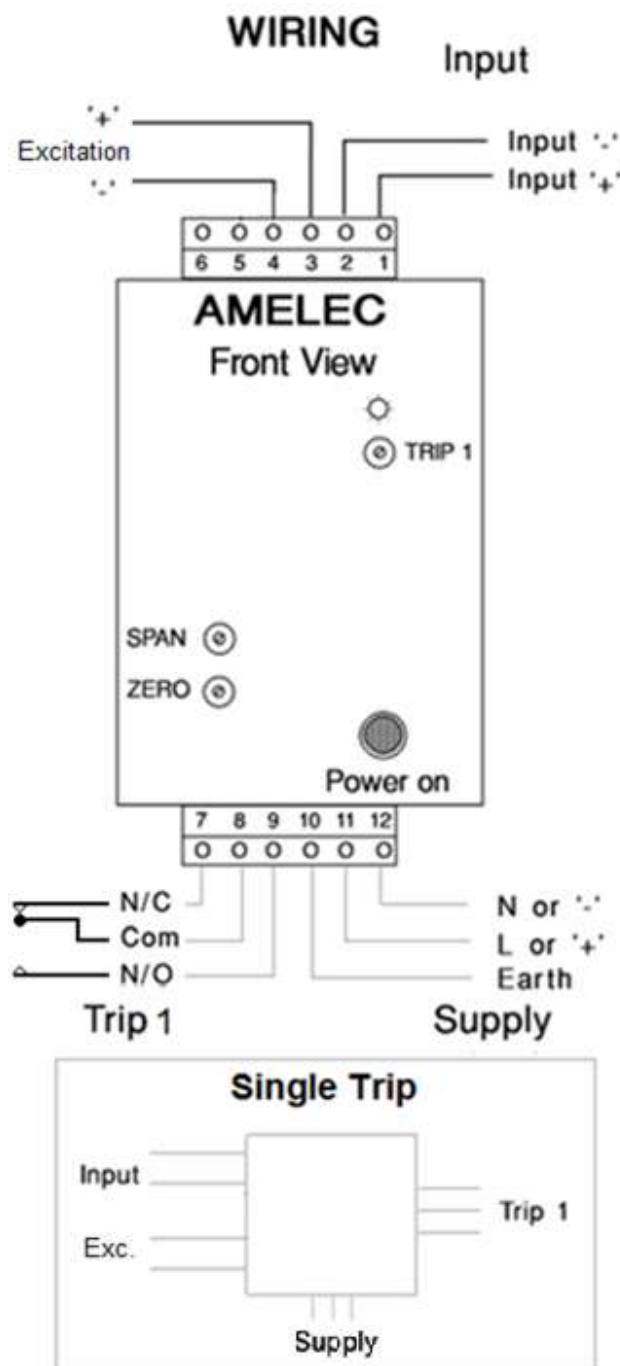
Storage Temperature: -40 to +70°C  
Operating Ambient: -15 to +55°C  
Relative Humidity: 5 – 95% RH (Non-Condensing)  
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)  
RF immunity: 20MHz-3GHz/5.25GHz  $\leq 10\text{V/m}$ ,  
80MHz-1GHz/5.6GHz  $\leq 30\text{V/m}$ , 889MHz/1.75GHz  $\leq 40\text{V/m}$ .

#### Enclosure Dimensions

50w x 75h x 182d (mm)

#### Mounting

Heavy duty Din Rail (TS35) as standard.  
Surface by Seismic keyhole plate option available,  
(Rear Surface mounting plate Dims: 50w x 130h mm).



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