ADM212K Thermocouple Trip Transmitter / Isolator

- Suitable for SIL 1 & SIL 2 (EN 61508) safety instrumented system (SIS) safety loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options: 115Vac ±20%
  240Vac ±20%
  24Vdc ±10%
  48Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010
- Digital Display available ('DI' option)
- Non-Smart / Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input
mV signal developed from any thermocouple type; J, K, N, R, S, T, with minimum 4mV span
(Automatic cold junction compensation)

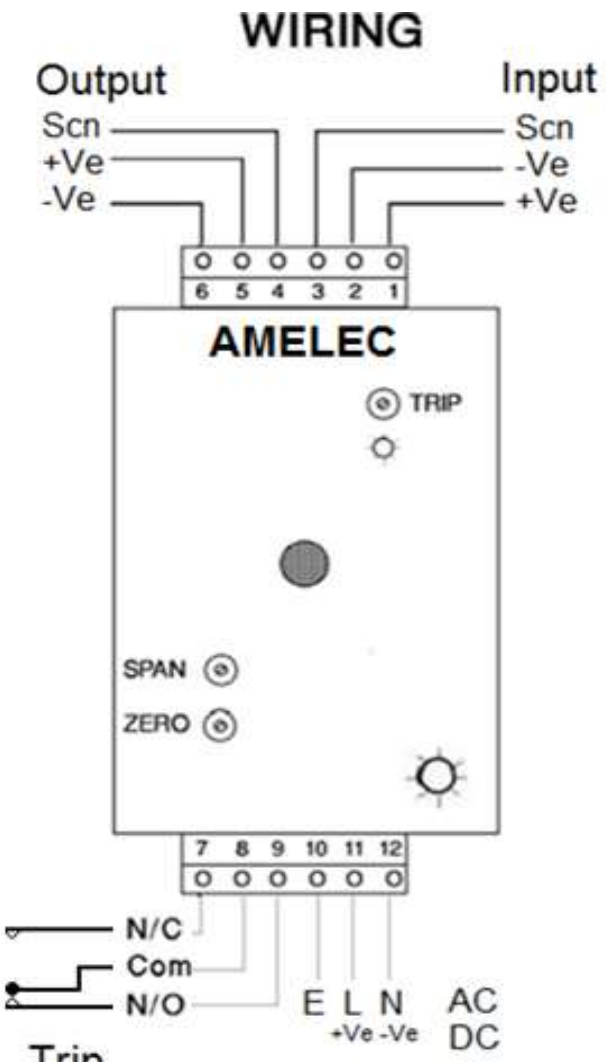
Analogue Output
Any standard process current or voltage range may be specified
Current source up to 20mA. Drive voltage 11Vdc
Voltage source up to 10V. Max current 20mA

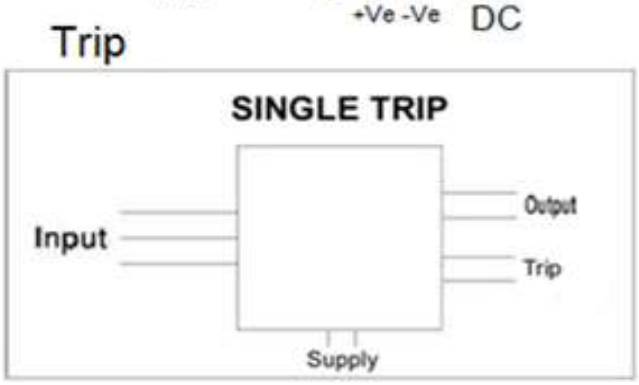
Trip Output
Changeover relay contacts, rated at 250VAC, 2A, 100VA (resistive)
High Temp Trip option, relay De-energises above set point
Low Temp Trip option, relay De-energises below set point.
Relay status indicator: Red LED, ON Energised/healthy/
Extinguished in De-energised/Trip state as std

Performance
Isolation: 500Vdc Input/Output/Contacts/Supply/Earth
Accuracy/Linearity: <±0.1% mV span as std
(Linearisation to temperature option 'G' available)
Input O/C response: Up or Downscale drive may be specified
(O/C response to be advised at time of orders)
Relay: De-energise on Trip, Fail Safe on loss of power as standard
Trip settability: ±1%
Trip repeatability: ±0.1%
Deadband: 1% span as std (adjustable 1-20% span optional 'V')
Response time: <400mS as std (0-100% input step change)
Supply consumption: <3VA
Fail Safe Relays: De-energise on Trip & Loss of Power as std

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)
RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m,
(80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m

Dimensions
50w x 75h x 182d (mm)





Mounting
DIN Rail (TS35) as std, Surface by Seismic Keyhole plate & Front of Panel mounting options also available.
(Surface mounting plate Dims: 50w x 130h mm)

Customer Termination
Fixed screw terminals as standard
(Plug-in terminals optional)

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