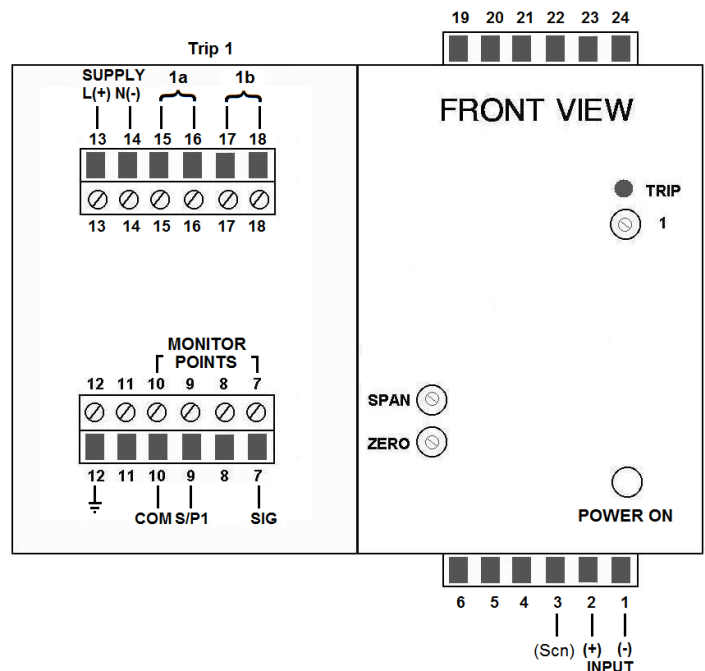


## ADT111K-RIS-ET7204 Thermocouple Trip Amplifier

- Suitable for SIL 1, SIL 2 or SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- 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
- Digital Display option available ('DI' option)
- Non-Smart/Non-uProcessor based, Type 'A' instrument
- AMELEC Standard 10 year warranty

### Wiring



### Technical Specifications

#### Input

Any mV signal range up to 400mV, or mV signal developed from any thermocouple type; J, K, N, R, S, T, with a minimum 4mV span.

Automatic cold junction compensation fitted as standard.

#### Output Relay Contacts

A pair of either N.O or N.C contacts, rated 3A 240Vac resistive load as standard.  
Set point adjustments via 15-turn blindset potentiometers.

#### Performance

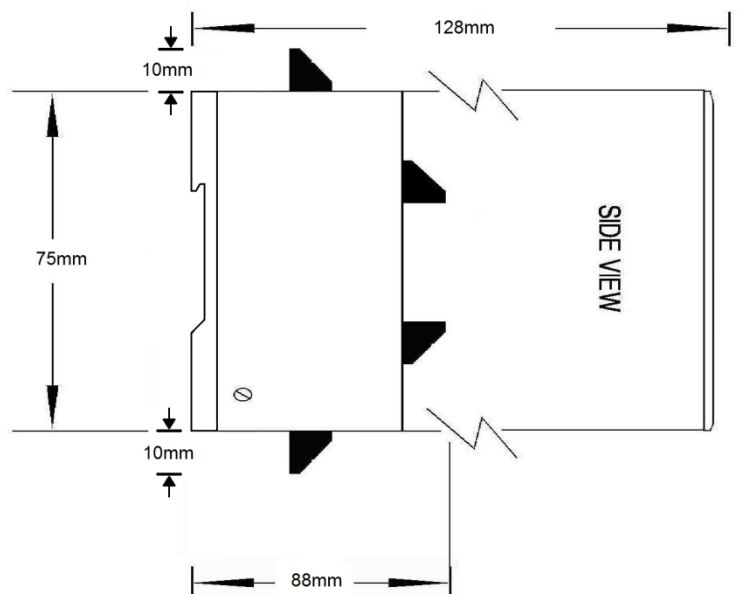
Trip settability:  $\pm 0.1\%$   
Trip repeatability:  $\pm 0.1\%$   
Response time: <200mS (0-100% input step change)  
Deadband: 1% span Hysteresis as standard  
(Wider fixed bands or 0.5-20% Variable hysteresis optional)  
Isolation: 500Vdc Input/Contacts/Contacts/Supply/Earth  
Monitor Points: 0-5Vdc representing 0-100% of input Span  
Input Open circuit response: Upscale drive as standard  
(O/C response Downscale drive option available)

#### Environmental Conditions

Storage Temperature: -40 to 70°C  
Operating Ambient: -15 to 55°C  
Relative Humidity: 5 – 95% RH  
EMC: 2014/30/EU, EN 61326-1:2013  
(Generic Industrial levels)

#### Customer Termination

Fixed screw terminals as standard  
(Plug-in screw terminal blocks option available)



#### Mounting / Dimensions:

Heavy duty Din Rail (TS35) as standard,  
Enclosure overall Dims: 100w x 75h x 182d mm.  
(Surface by Seismic keyhole plate option available,  
Rear Mounting Plate Dims: 100w x 130h mm).

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