

ADT116KTL mV input Dual Trip Amplifier with Latching Relays

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

Technical Specifications

Input

Any mV range may be specified (up to 400mV as std), with a minimum 4mV span. Typical Input range: 0-5mV, 0-10mV, 0-20mV, 0-30mV, 0-50mV, 0-75mV, 0-100mV, 0-125mV, 0-150mV or 0-200mV dc.

Outputs

Each trip output is a set of Latching Relay contacts (T1=N.O, T2=S.P.C.O), with a common Remote Contact Reset facility. Changeover contacts, rated at 250VAC, 2A, 100VA resistive. Red LED indication of each relay status; **ON** Energised/healthy, Extinguished in Trip/De-energised state.

(Red/Green 'BI'-colour LED status indicators optional)

Digital Display ('DI' option) of the Input range on 3½ digit Front LCD or up to 4½ Digit Red LED Display also available on request, with front fascia Toggle switch or Read buttons show the trip set points within the scale.

Performance

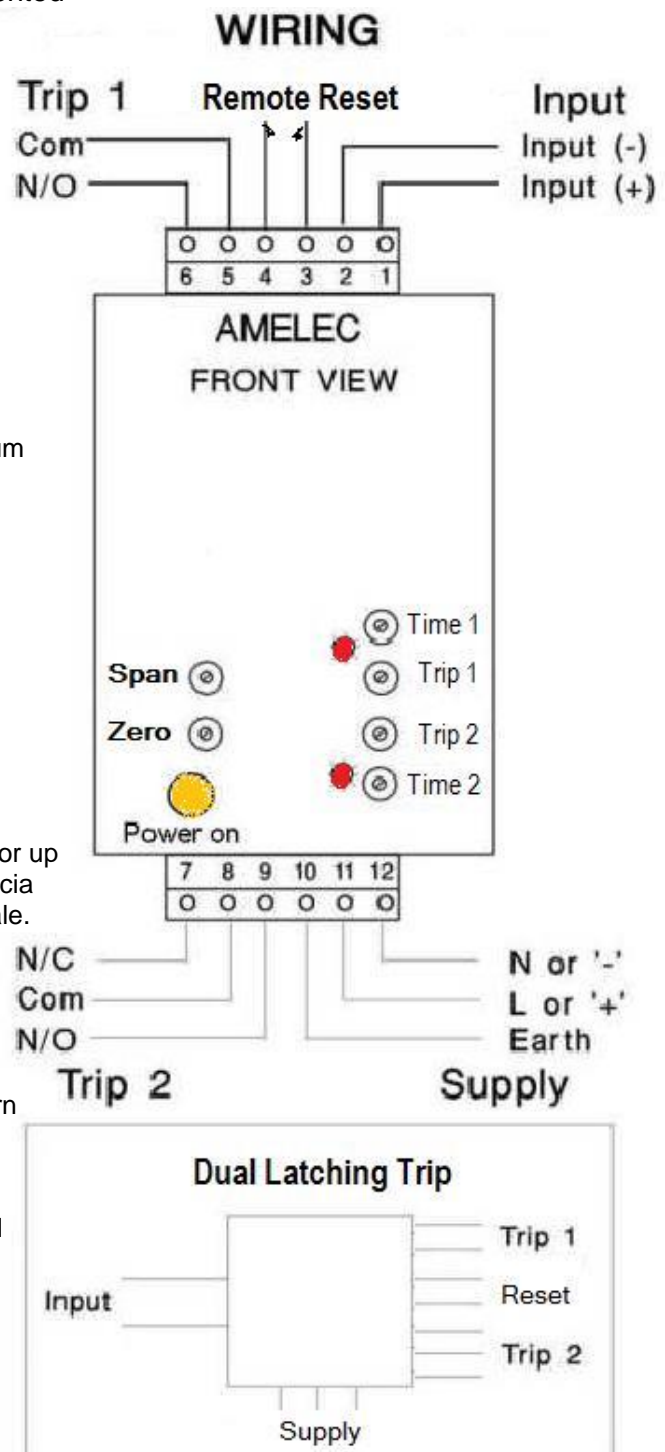
Trip settability: $\pm 1\%$ span (front 15-turn blindset potentiometers)
Trip repeatability: $\pm 0.1\%$ span
Deadband: nom 1% span std (Variable 0.5-20% option 'V' available)
Time Delays into Trip: TBA on orders, adjustable by additional 15-turn blindset potentiometers through unit front fascia.
Isolation: 500Vdc Input/Contacts/Contacts/Supply/Earth
Input O/C response: Upscale drive std, Downscale may be specified
Fail Safe Relays: De-energise on Trip & Loss of Power supply 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 $\leq 10\text{V/m}$,
80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$.

Mounting/Dimensions

Enclosure: 50w x 75h x 182d mm
DIN Rail (TS35) or Surface by seismic Keyhole plate (50w x 130h mm) and Front of Panel mounting options all available as standard.
(Front of Panel Bezel Dims: 57w x 96h, Cut out Dims: 51w x 76h mm)



Customer Termination

Fixed screw terminals towards rear of enclosure as standard.
(Plug-in terminals optional)

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