

ADT182WK Dual Channel Input Frequency 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: 115Vac $\pm 20\%$
230Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty
- Digital Indication of input Frequency & Trip Set Points available ('DI' option, LCD or LED)
- Non-Smart / Non-uProcessor based, Type A instrument

Technical Specifications

Inputs

Typically regular pulses from either an encoder or proximity sensors, with a nominal 90° phase shift between the input signals.
Minimum 25Hz calibrated span (maximum 12KHz span) as standard.
Green LED indication ON for each direction of travel/rotation.

Outputs

Each trip Relay output is a set of SPCO contacts, rated at 250VAC, 2A, 100VA resistive. Red LED indication of each Relay status;
ON Energised, Extinguished in Trip/De-energised state as standard. Each trip Set Point is independently adjustable over the full input frequency range.

Deadband

Fixed nominal 1% Span Trip Hysteresis as standard.
(Variable 0.5-20% span deadband also available: 'V' option)

Performance

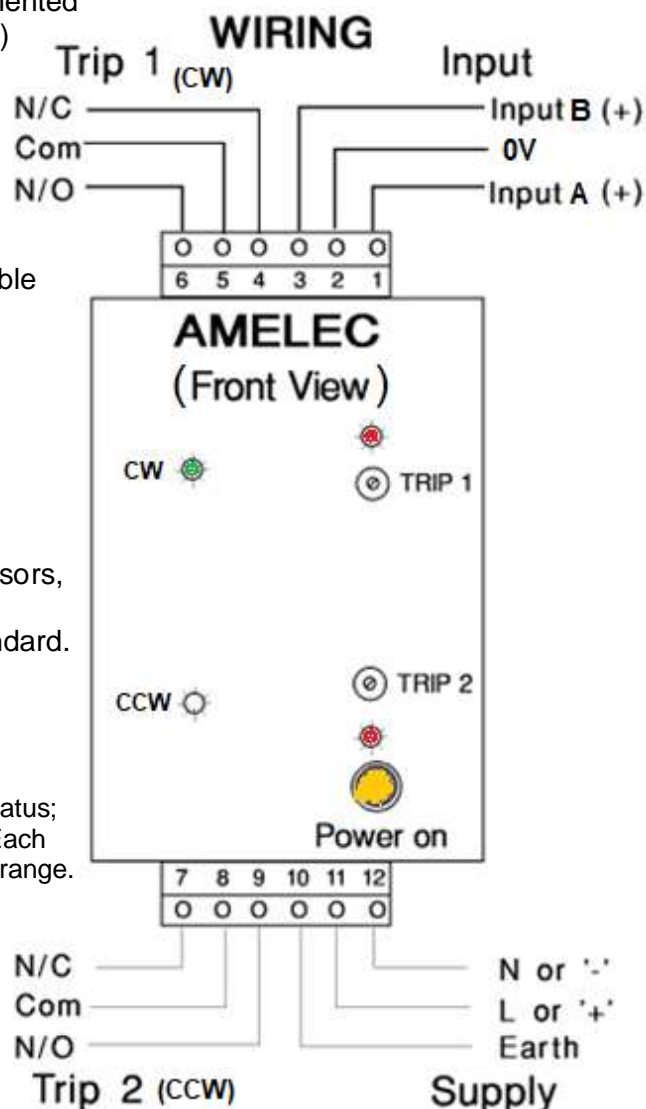
Isolation: 500Vdc Inputs/Contacts/Contacts/Supply/Earth
Trip settability: $\pm 0.1\%$
Trip repeatability: $\pm 0.1\%$
Deadband: 1% standard
Response time: <200mS (0-100% input step change)
(Fixed or Variable Time delay into Trip also available: 'T' option)
Input O/C response: Downscale drive
(other special requirements also available on request: 'X' options)

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 $\leq 10V/m$,
(80MHz-1GHz/5.6GHz $\leq 30V/m$, 889MHz/1.75GHz $\leq 40V/m$)

Customer Termination

Fixed screw terminals as towards rear of enclosure standard.



Mounting/Dimensions

Enclosure: 50w x 75h x 182d mm
Heavy duty DIN Rail (TS35) mounting as standard.

Surface by Seismic Keyhole mounting plate (50w x 130h mm) and Front Panel mounting options also available on request.

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