

ADC313TLX Cyclic Select Trip Amplifier

- Supply voltage: 24Vdc / 115Vac / 230Vac
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

TECHNICAL SPECIFICATION

INPUT 1 & 2

DC current / voltage can be specified in the range of:
Current up to 100mA max (Passive)
Voltage 0.4 to 100V max
Typical input: 4 - 20mA (Passive)
Note: Inputs will have Common 0V.

AUTO INPUT SWITCH CYCLE

Input switched automatically, timing can be set in the range of 30 to 60 minutes.

RESET CONTACTS

Latched trips reset remotely via volt free contacts.
Contacts normally open, close to reset.

ANALOGUE OUTPUT

Output representing selected input.
Typical output range: 4 - 20mA (Source) other mA and Voltage ranges available as standard option.

RELAY OUTPUT

Latching 2 X SPCO, Fault 1 x SPCO rated at 250VAC, 2A, 100VA resistive.

CONTROLS

Zero / Span (+/- 20%): 15 turn potentiometers for output calibration.
Trip 1 / Trip 2 settable range 0 -110% of output span via 15 turn potentiometers.
Time: 15 turn potentiometers for setting input switch time cycle.

INDICATOR

LED, Amber: Power ON:
LED, Red: 2 x Trip status (Distinguished = Healthy)
LED, Red: Fault if selected input <3.8mA - 29.5mA>
LED, Green: Input selected. (Energised = Selected)

PERFORMANCE

Linearity: < ±0.1%
Response time: Typically < 400mS
Accuracy: < ±0.1%
Trip settability: better than ±1%
Trip repeatability: better than ±0.1%

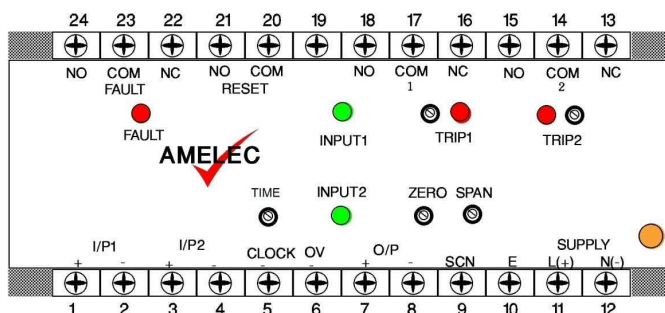
PROTECTION

Input O/C drive downscale
Isolation 1000V RMS.
Inputs/Output/Contacts/Supply/Earth
Internal Fuse. 2 x 250mA / F 1 x 200mA / T
Input over range up to typically 300%.

FRONT VIEW



TERMINATION & WIRING



TIME SETTING

Monitor terminal 5 & 6 on a time counter or low frequency meter and adjust time potentiometer to set.
2.278Hz = 30 minutes
1.519Hz = 45 minutes
1.139Hz = 60 minutes

ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 152w x 81h x 137d
Mounting: Din rail / Surface (optional Panel Mount)
Weight < 300g

ADD ON / OPTIONS

DI: LCD display for local monitoring
J : Input injection jack socket
P: Test point
Non standard Power supply ranges available