

ADT131TX Time Elapsed Trip module

- Suitable for coil integrity monitoring & alarm applications
- Non-smart / Non-uProcessor based design.
- Supply options: 24Vdc / 48Vdc / 115Vac / 230Vac
- Amelec standard 10 year warranty
- Suitable for SIL 1 & SIL 2 rated safety applications, as 1oo1 architecture HFT:0 (IEC 61508-2:2010)

Timer cycle can be activated with contact closure to both input s. Trip Relay shall be energised during timing period, de-energising when the run time has elapsed. Timer can be put on hold during the timing cycle by opening input 1 contacts. Closing the contacts again shall resume the timer.

TECHNICAL SPECIFICATION

INPUT

Volt free contact or 24V/48Vdc applied contact can be specified

Open or Close = Run/ Energise or De-energise output relay, either for the time period set or once the time period set has elapsed.

TRIP / RELAY

1 x SPCO contacts, rated at 250VAC, 2A, 100VA resistive.

(Relay De-energised on Time Elapsed)

CONTROLS

TIME: 15-turn blindset potentiometer to set the time period in the range of 2 to 10min. Other ranges can be specified.

INDICATOR

Power ON: LED, Amber (ON Healthy / OFF Lost Supply)

Relay status: LED, Red (ON Healthy / OFF Trip)

PERFORMANCE

Trip settability: better than $\pm 1\%$
 Trip repeatability: better than $\pm 0.1\%$
 Response time: Typically < 200mS
 Dead band: Typically < 1%
 Power consumption: <3VA

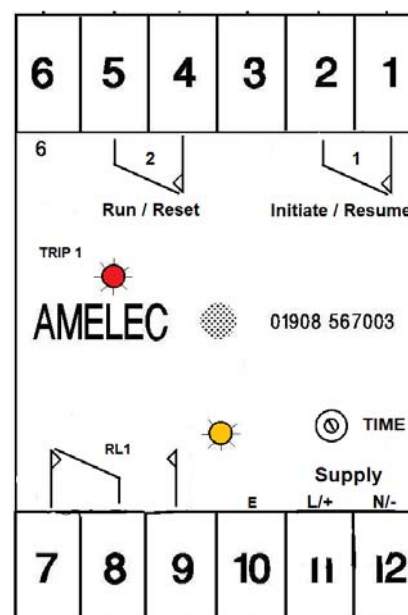
PROTECTION

Isolation 1000V RMS. Output/Contacts/Supply/Earth
 Internal Fuse.
 Failsafe Relay loss of power

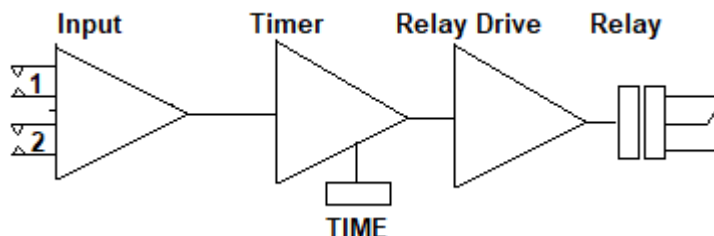
TERMINATION

Volt free contacts	1
Volt free contacts	2
Scn	3
Volt free contacts	4
Volt free contacts	5
	6
RL1-NC	7
RL1-COM	8
RL1-NO	9
Earth	10
Live / +	11
Neutral / -	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 °C

Operating Ambient: -15 to +55 °C

Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d

Mounting: Din rail / Surface by corner fixing holes

Weight < 300g

ADD ON / OPTIONS

DI: LCD display for local monitoring

P: Test point (Output or Trip set point monitoring)

K: RFI protection to IEC61000-4-3 (20-1000MHz, $\leq 10V/m$)

Non standard Power supply ranges available