

ADT131TX-DC-DNB Time Elapsed Trip module

- Non-smart / Non-uProcessor based design.
- Supply options: 24Vdc or 48Vdc (+/-10%)
- Amelec standard 10 year warranty
- Suitable for SIL 1 & SIL 2 rated safety instrumented system (SIS) loop applications, as 1oo1 architecture, HFT:0 (EN 61508-2:2010)

Timer cycle can be activated with contact closure or opening 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 input 1 contacts again shall resume the timer.

TECHNICAL SPECIFICATION

INPUT

50Vdc applied input1 Contact to Initiate/Resume, Volt- free input2 contact to Run/Reset, Input1 Closed/Input2 Open = Run/ Energise output relay for the Time period set
Input2 Closed to Reset once time period has elapsed.

TRIP / RELAY

DPCO contacts, rated at 250VAC, 2A, 100VA resistive as std.
(Relay De-energised when Time Elapsed)

CONTROLS

TIME: 15-turn blindset potentiometer to set the time period in the range of 1 to 10 Seconds.
Other ranges may be specified, up to 300 minutes.

INDICATOR

Power ON: LED, Amber (ON Healthy / OFF Loss of Supply)
Relay status: LED, Red (ON Energised / OFF Trip)

PERFORMANCE

Trip settability: better than $\pm 1\%$
Trip repeatability: better than $\pm 0.1\%$
Response time: Typically < 200ms
Power consumption: <3VA
EMC: 2014/30/EU, EN 61326-1: 2013 (controlled EM)

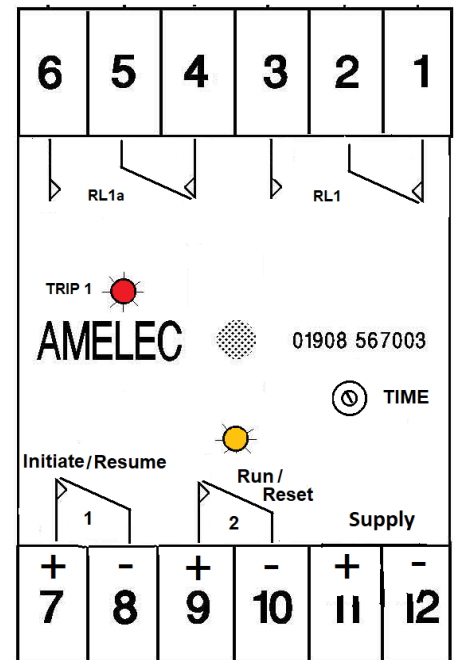
PROTECTION

Isolation 1000V RMS. Output/Contacts/Supply/Earth
Internal Fuse.
Failsafe Relay: De-energise on loss of power

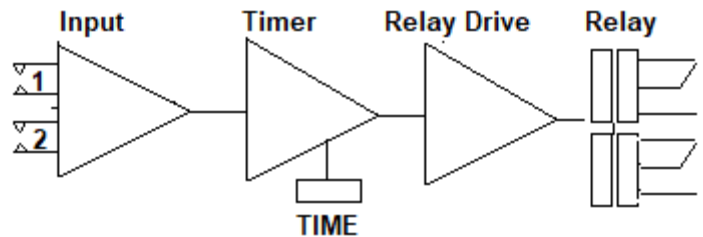
TERMINATION

RL1-NC	1
RL1-COM	2
RL1-NO	3
RL1a-NC	4
RL1a-COM	5
RL1a-NO	6
Volt free contacts	7
Volt free contacts	8
Volt free contacts	9
Volt free contacts	10
Supply/ +Ve	11
Supply/ -Ve	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

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

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d mm
Mounting: Din rail (TS35) or Surface by corner fixing holes
Weight < 300g

ADD ON / OPTIONS

K: RFI protection to EN 61000-4-3 (20-1000MHz, $\leq 10V/m$)
Non standard Power supply ranges available