

ADT131DITXP Cycle Timer Trip with Hours Run Display

- Supply voltage: 24Vdc (Other ranges available on request)
- Amelec standard 10 year warranty
- Suitable for SIL1 and SIL2 rated safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)

TECHNICAL SPECIFICATION

FUNCTION

The timer can be specified/ set to count up to 300 minutes (5 hours) and then the trip contacts will open.

An input contact closure into the timer will reset the timer to zero and as long as that input remains the timer shall not count. Opening of the contact input shall initiate the timer count (fail safe operation). The run time elapsed can be shown in Seconds for up to 30mins applications, otherwise shown in minutes on the display.

INPUT

Volt free contacts
Open = Run
Close = Reset & Hold

OUTPUT

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

CONTROLS

Unit Calibration is Factory set as specified at time of orders. (Bench Calibration potentiometers are available, but hidden behind unit front fascia)

INDICATOR

Power ON: LED, Amber.
Relay status: LED, Red. Normally Energised.
Display: 3.5 digit LCD, scaled in seconds (≤ 1800) or minutes run. (Optional front fascia pushbutton available to show the trip set point within the same range - TBA at time of order)

PERFORMANCE

Trip settability: better than $\pm 1\%$
Trip repeatability: better than $\pm 1\%$
Supply consumption: $< 80\text{mA}$ ($< 2\text{Watts}$)
Response time: $< 25\text{mS}$

PROTECTION

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

ENVIRONMENTAL CONDITION

Storage temperature: -40 to $+70$ °C
Operating Ambient: -15 to $+55$ °C
Relative Humidity: 5 to 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 146d mm
Cut out: 51w x 76h mm
Front panel bezel: 57w x 96h mm
Mounting: Front of Panel
Weight $< 300\text{g}$

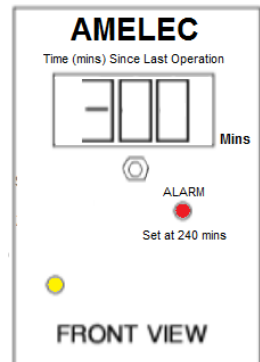
Note: Please ensure panel mounting brackets are fixed securely and safely. Use Loctite glue to fixing screws in applications subject to vibration.

IP Rating: Standard IP40 (optional IP65 Front cover available)

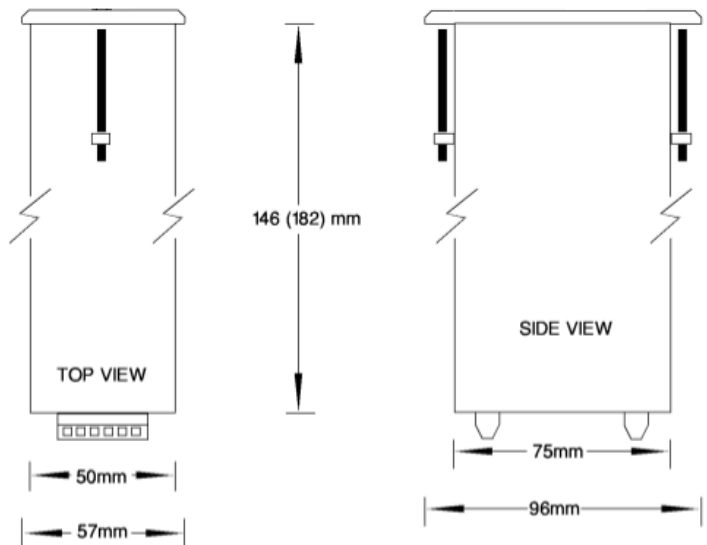
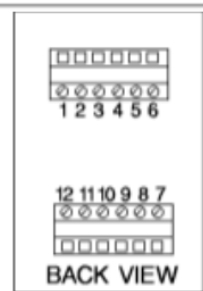
TERMINATION

Volt free contact	1
Volt free contact	2
	3
	4
	5
	6
RL1-NC	7
RL1-COM	8
RL1-NO	9
Earth	10
Supply +	11
Supply -	12

FRONT VIEW



FRONT VIEW



FUNCTION BLOCK DIAGRAM

