

ADT131DITXK-X (20-18258/3-6 Functional spec.) Cycle Timer Trip with 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 count Up to 1500 Seconds (25 mins), with the trip N.O contacts set to open at 1200 Secs.

An input volt-free contact closure into the timer initiates the timing event & closes contact across TB5-6, whilst Reset input contact is also closed. Output Relay remains Energised/N.O output contacts Closed, whilst the remote reset contact remains made. If 1200 Secs time elapses then the output relay De-energises/NO contacts Open. Opening the remote Reset input contact at any time will immediately reset the relay &/or timer. The output relays will naturally De-energise on loss of power supply, contacts open.

INPUT

Volt free contacts
Input 1 Close = Run,
Input 2 Open = Reset & Hold

OUTPUTS

3 x C.O relay contacts, rated at 250VAC, 2A, 100VA resistive.

CONTROLS

Unit Calibration is Factory set, as specified at time of orders.
(Calibration pots & Set Point Read button available on front fascia)

INDICATOR

Power **ON**: LED, Amber.
Relay status: LED, Red. **ON** Energised.
Display: 3.5 digit LCD, scaled in seconds (≤ 1500) run.

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/Contacts/Supply/Earth
Internal Fuse.
Failsafe Relay on loss of power

ENVIRONMENTAL CONDITION

Storage temperature: -40 to $+70^\circ\text{C}$
Operating Ambient: -15 to $+55^\circ\text{C}$
Relative Humidity: 5 to 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial)

MOUNTING / DIMENSION

Mounting: Din Rail (TS35) as std, Front of Panel optional.
Enclosure: 50w x 75h x 182d mm
Front of Panel option Cut out: 51w x 76h mm
(Front of panel bezel: 57w x 96h mm)
Weight $< 300\text{g}$

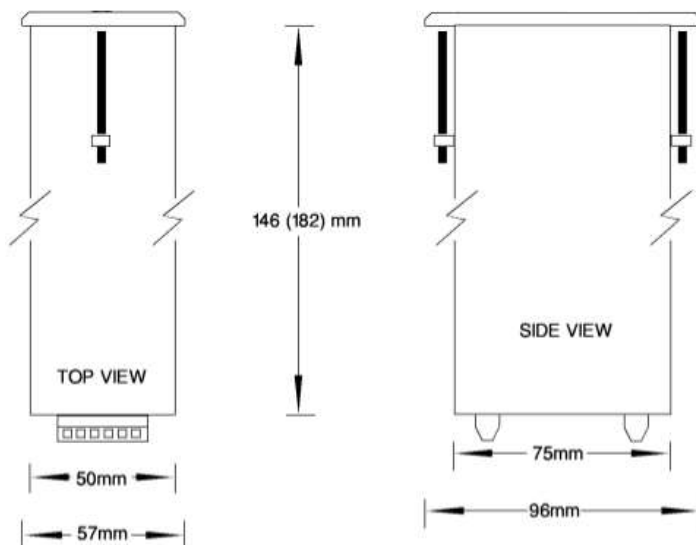
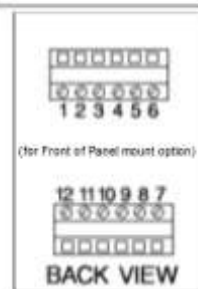
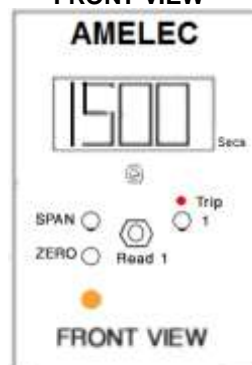
Note: Please ensure panel mounting brackets are fixed securely and safely. Use Loctite glue to fixing screws in applications subject to vibration.

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

TERMINATION

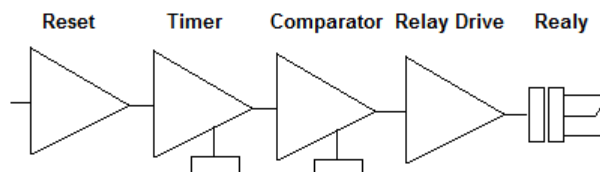
Volt free contact	1
Volt free contact	2
Remote Reset	3
Remote Reset	4
Initiated-NO	5
Initiated-COM	6
RL1a-NO	7
RL1a-COM	8
RL1b-NO	9
RL1b-COM	10
Supply +	11
Supply -	12

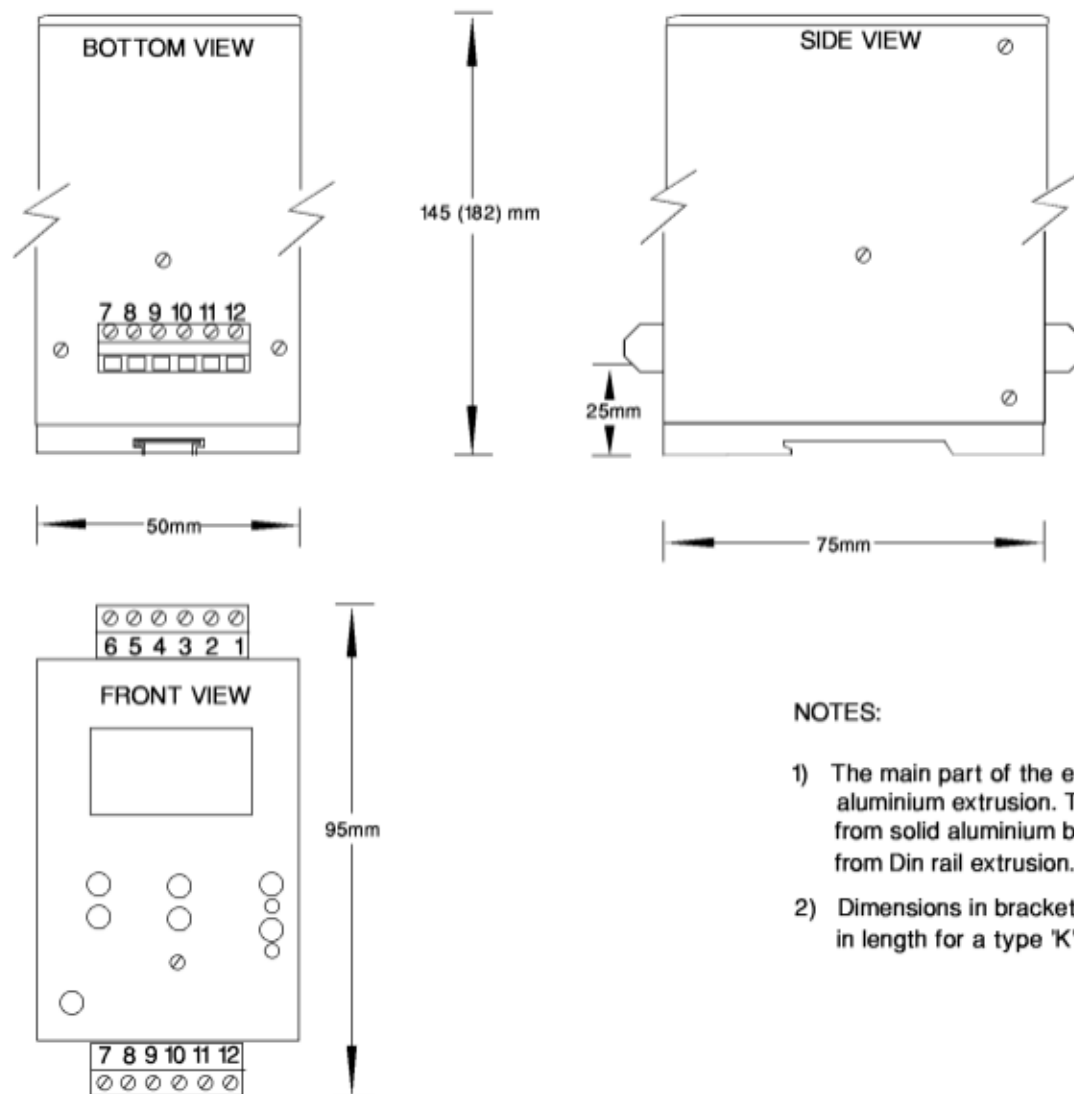
FRONT VIEW



(G.A. shown for front of panel mounting)

FUNCTION BLOCK DIAGRAM





NOTES:

- 1) The main part of the enclosure is a one-piece aluminium extrusion. The front panel is machined from solid aluminium block. The rear is machined from Din rail extrusion.
- 2) Dimensions in brackets refer to the increase in length for a type 'K' enclosure.

DIMENSIONS in mm TOLERANCES ± Nominal 0.4 mm Decimal 0.15 mm Unless shown otherwise	Drawn: SLK	REVISION Redrawn 7/2000	TITLE: Din Rail enclosure Views of enclosure showing major dimensions.		AMELEC INSTRUMENTS Cochran Close, Presley Way Crownhill, Milton Keynes, MK8 0AJ	
	Checked:					
	Approved:		Used on Assembly AD series products	SCALE N.T.S.	DRAWING NO. AD Din Enclosure	Sht 1 of 1
	Date: 11/7/00					