

ADT131TX Contact Repeater/Trip Module with Time Delay (Ref: 17T2445 , Amec Foster Wheeler)

- Suitable for SIL 1 & SIL 2 rated (IEC61508) safety system loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage: 24Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010 option 'K' available
- AMELEC Standard 10 year warranty

Technical Specifications

Function

Closure of the input contact initiates the timer count, the latching relay output contacts close & Red LED output relay status indicator illuminates

The timer is to count up to the time period set and then the output relay De-energises/contacts Open again. The Red LED indicator extinguishes and the unit waits for the next input contact closure.

(Once the timer sequence has been initiated, if the input contact opens again any time within the time period set, the output relay contacts will ignore this & remain closed until the time period set has elapsed)

Input

24Vdc applied contact

Output

The output relay has a set of D.P.C.O contacts, rated at 250VAC, 2A, 100VA (resistive)

Controls & Time Delay

Unit Calibration is Factory set.

Timing period of up to 240 seconds available.

Bench Calibration potentiometers are available, but hidden behind the front fascia

Isolation

1000V RMS Input/Output relay Contacts/Supply/Earth

Indicator

Power ON: Amber LED.

Contact status: Red LED. ON when timer period started/ Output relay Energised/ Contacts Closed.

Performance

Trip repeatability: $\pm 1\%$
Response time: $< 200\text{ms}$

Environmental Conditions

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

Dimensions/Mounting

Enclosure: 50w x 75h x 145d mm (182d mm if 'K' option specified)
Din Rail (TS35) or optional Surface by seismic Keyhole plate
(optional rear/Surface mounting plate Dims: 50w x 130h mm)

WIRING

