

## ADT138(K)TX Contact Repeater Module with Timer Delay

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltages: 115Vac  $\pm 20\%$   
240Vac  $\pm 20\%$   
24Vdc  $\pm 10\%$   
48Vdc  $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 option 'K'
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Function

Open or Closure of the input contact shall initiate the timer count, the output relays can either energise/relay contacts Close or De-energise/ relay contacts open for the time period set, or after the time has elapsed.

The timer is to count up to the time period set before the output relay either de-energises or energises again, and then waits for the next input contact state change to initiate the next timer count event.

(any further input contact changes within the timing period can either be ignored or immediately Reset in the meantime to suit applications)

#### 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.

#### Time Delay

Fixed or variable Time delay from 2secs up to 30mins can be specified.  
(Variable Time delay adjustment potentiometer is hidden behind fascia)

#### Output

The output relays each have two sets of C.O contacts, rated at 250VAC, 2A, 100VA (resistive), with Red LED indication of each relay status.  
(Can be configured for just a momentary change of state if required)

#### Controls

Unit Calibration Factory set.  
(Bench Calibration potentiometers available, hidden behind unit front fascia)

#### Indicator

Power ON: LED, Amber.  
Relay contact status: Red LED ON either during timing period or when output contacts open/close, to suit applications.

#### Performance

Trip repeatability:  $\pm 1\%$   
Response time:  $< 200\text{ms}$   
Isolation: 1000V RMS (500Vdc 'K' option) Input/Contacts/Contacts/Supply/Earth  
Option 'K': RF Immunity 20MHz-3GHz/5.25GHz  $\leq 10\text{V/m}$ ,  
(80MHz-1GHz/5.6GHz  $\leq 30\text{V/m}$ , 889MHz/1.75GHz  $\leq 40\text{V/m}$ )

#### Environmental Conditions

Storage Temperature:  $-40$  to  $+70^\circ\text{C}$   
Operating Ambient:  $-15$  to  $+55^\circ\text{C}$   
Relative Humidity: 5 – 95% RH (Non Condensing)  
EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)  
(‘K’ option is to the highest Generic Industrial levels)

#### Mounting/Dimensions

Din Rail (TS35) or Surface by Seismic Keyhole plate options available  
ADT138TX: 50w x 75h x 145d mm, ADT138KTX: 50w x 75h x 182d mm

