

## ADT138(K)TXL Contact Repeater Module with Time Delay/Remote Reset

- 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.

Typically, the timer is to count up to the time period set before the output relay either de-energises or energises & Latches, then waits for the next input contact state change to initiate the next timer count event after being Remotely Reset. (Any further input contact changes occurring within the timing period set can either be ignored or immediately Reset the timer, to suit different applications)

#### Input

Volt free contact or 24V/48Vdc applied contacts 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 pot can be hidden behind front fascia if preferred)

#### Output

The output relays are two sets of C.O contacts; Trip1 1xN/O + Trip2 2xN/O contacts rated at 250VAC, 2A, 100VA (resistive), with Red LED indication of each sets status. (Either both or just a single set of the Trip contacts may be specified to Latch)

#### Controls

Unit Calibration Factory set.  
(Bench Calibration potentiometers available, hidden behind 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  
ADT138TXL: 50w x 75h x 145d mm, ADT138KTXL: 50w x 75h x 182d mm

