

# **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 1001 architecture (HFT:0)

• Supply voltages: 115Vac ±20%

240Vac ±20% 24Vdc ±10% 48Vdc ±10%

- RFI Protection to EN 61000-4-3:2006/A2:2010 option 'K'
- AMELEC Standard 10 year warranty

## **Technical Specifications**

#### <u>Function</u>

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) Trip 2a

#### <u>Indicator</u>

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: ±1%
Response time: <200mS

Isolation: 1000V RMS (500Vdc 'K 'option) Input/Contacts/Contacts/Supply/Earth

Option 'K': RF Immunity 20MHz-3GHz/5.25GHz <10V/m,

 $(80MHz-1GHz/5.6GHz \le 30V/m, 889MHz/1.75GHz \le 40V/m)$ 

# **Environmental Conditions**

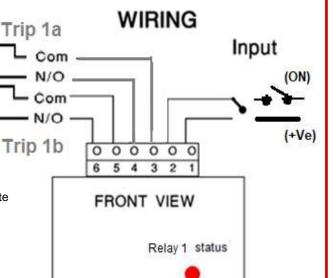
Storage Temperature: -40 to +70°C Operating Ambient: -15 to +55°C

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**

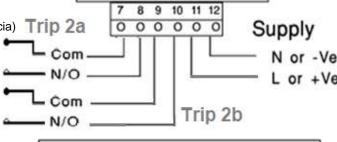
Din Rail (TS35) or Surface by Seismic Keyhole plate options available ADT138TX: 50w x 75h x 145d mm, ADT138KTX: 50w x 75h x 182d mm

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Relay 2 status

Power ON



TRIP AMPLIFIER

