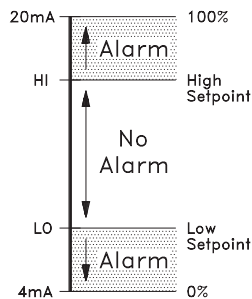


**Standard features:**

- High Input-Output-Power Isolation (1500VAC Test)
- Small Size - Fits on Terminal Block Rail
- 1 Form "C" Contact Output with ON delay or ON and OFF delay
- Individual Hi-Alarm and Lo-Alarm Setpoints and Delay Adjustment
- Easy Field Calibration (Typ. calibration time < 2 min. using handheld meter only)
- Microprocessor Controlled for High Accuracy
- Two Wire Supply Option for Two Wire Transmitters
- Power: 24 VDC, 60 mA
- High Noise Rejection
- CSA and NRTL Approved (LR 51078)

**Function:**

The TUA-XHL Hi-Lo Alarm Trip is a microprocessor based instrument. It operates as a combined high trip and low trip to detect conditions that fall outside a specified operating window. The relay can be configured as a normally-energized or normally de-energized. A built in two wire supply can be used to connect two wire sensors to the TUA-XHL.



The output is a SPDT (form "C") contact rated at 10 Amps, 1/8 Hp at 125 VAC. The High and Low setpoints can be adjusted individually to allow for monitoring virtually any operating window. The delay is adjustable from 0-1 minute and can be configured as ON delay only or as ON and OFF delay. This feature helps prevent nuisance alarms.

**Calibration:**

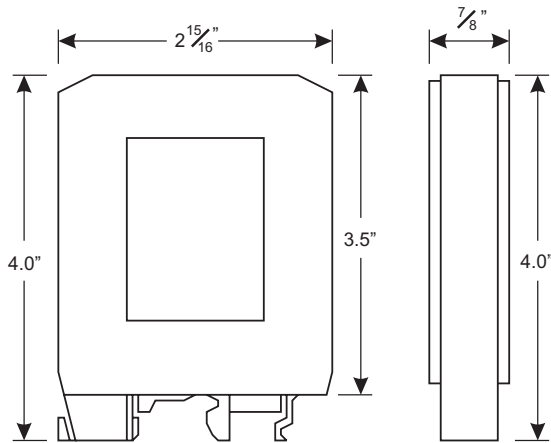
The TPz (Test Points) are used to calibrate the setpoint and delay functions of the TUA-XHL. A voltage of 0-5 VDC on TPz represents a setting of 0-100% of the parameter z. Any parameter can be changed while the TUA-XHL is in operation thus making it easy to perform field adjustments.

**Input Selection:**

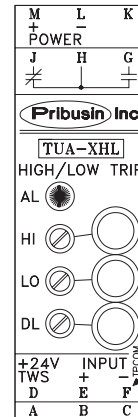
- X=1: 1 to 5 mA (Zin=1K Ohm)
- X=2: 4 to 20 mA (Zin=250 Ohm)
- X=3: 0 to 1 mA (Zin=5K Ohm)
- X=4: 10 to 50 mA (Zin=100 Ohm)
- X=5: 1 to 5 VDC (Zin=1Meg Ohm)
- X=6: 0 to 10 VDC (Zin=1Meg Ohm)
- X=7: Special Input

# TUA-XHL

## Dimensions:

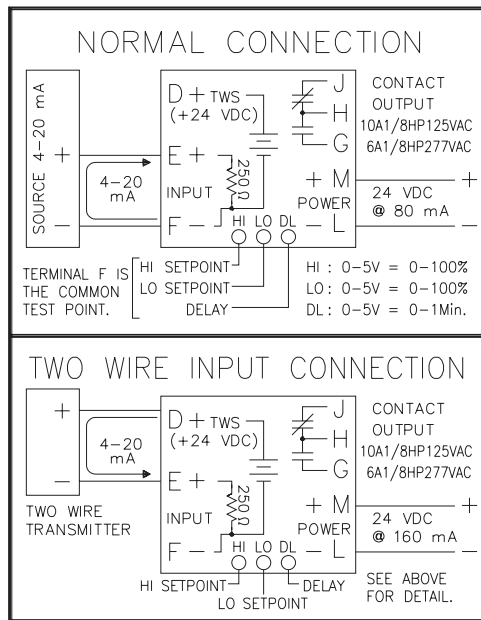


## Connection:



Calibration is made easy by multi-turn potentiometers with test points for meter connection

## Connection:



## Configuration:

Jumper	Out	In
H1-1	N/A	N/A
H1-2	Relay Energized	Relay De-Eng.
H1-3	4-20mA Input	0-20mA Input
H1-4	ON Delay Only	ON and OFF Delay

The above table shows H3 for a 4-20 mA or 0-20 mA device. The same offset/zero-based input configuration holds true for all other input types.

## Specifications:

Accuracy/Linearity: +/-0.3% max., +/-0.1% typ.  
 Response Time: approx. 100msec  
 Operating Temperature: -40 Deg.C to +50 Deg.C  
 Contact Rating: 10A 1/8 Hp @ 125 VAC  
 6A 1/8 Hp @ 277 VAC

Manufactured By:



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