

# ZX-PA SERIES - Analog Position Transducer

## RATIOMETRIC VOLTAGE OUTPUT



With dimensions of .73 x .73 x .375, the **UniMeasure ZX-PA Series** is the world's smallest stringpot. With a total measurement range of 1.5" (38 mm), a wide operating temperature range and long cycle life, the ZX-PA-1.5 is perfect for applications where space is at an absolute premium and maximum performance is required.

A co-molded maximum life potentiometer is mounted into the anodized aluminum housing of the unit. The mounting holes in the housing allow mounting with two #2 or two 2 mm screws. Alternatively the unit may be mounted with two 4-40 screws that thread directly into the housing. The wire rope of the unit may be ordered with an eye fitting termination or with a length of leader wire rope, a clip, and several crimp fittings to hold the clip in place.



### SPECIFICATIONS

#### GENERAL

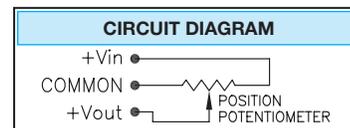
Measurement Range..... 1.5 inch (38 mm)  
 Sensing Device..... Precision Co-Molded Potentiometer  
 Resolution..... Essentially Infinite  
 Linearity..... ±1.0% Full Scale  
 Repeatability..... ±0.03% Full Scale  
 Construction..... Anodized Aluminum Housing  
 Wire Rope..... Ø0.018" (0.46 mm) Nylon Jacketed Stainless Steel  
 Wire Rope Tension..... 4 oz (1.1 N)  
 Weight..... 0.42 oz (12 gm)  
 Electrical Connection..... 3 conductor cable, 18" (457mm) length  
 Dynamic Response..... 25 Hz over full range extension  
 Life..... 10,000,000 full stroke cycles

#### ENVIRONMENTAL

Operating Temperature..... -55° C to 100° C  
 Storage Temperature..... -65° C to 100° C  
 Vibration..... 15 G's 0.1 ms max.  
 Shock..... 50 G's 0.1 ms max.  
 Ingress Protection..... IP-40 (NEMA 1)

#### ELECTRICAL

Nominal Output..... 630 mV/in@ 1VDC Input Voltage<sup>[1]</sup>  
 24.8 mV/mm@ 1VDC Input Voltage<sup>[1]</sup>  
 Input Impedance..... 5000 Ω ±10%  
 Output Impedance..... 0 to 5000 Ω  
 Excitation Voltage..... 30 VDC Max.



#### FOOTNOTES TO SPECIFICATIONS

1. For nominal output in application, multiply value shown by actual excitation voltage.

### MODEL NUMBER CONFIGURATION

## ZX-PA-1.5-

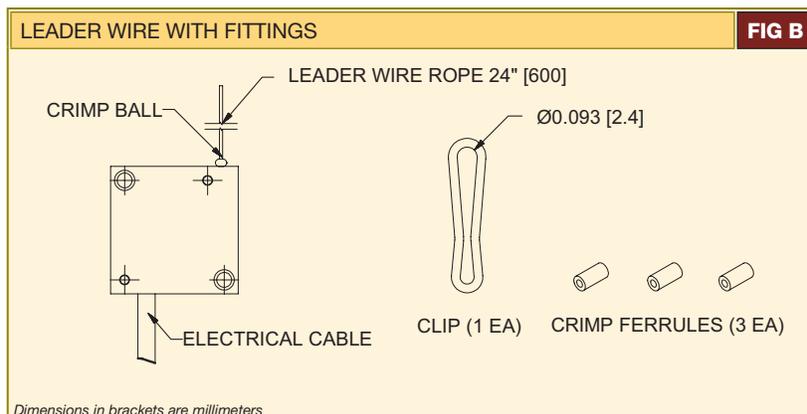
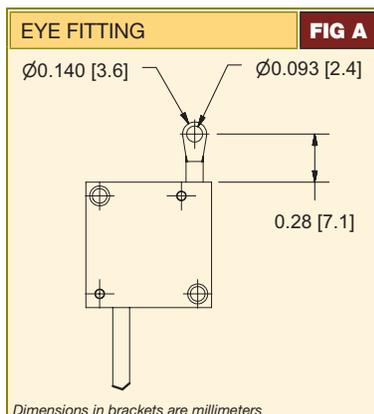


#### BASIC CONFIGURATION

### ZX-PA-1.5-A

#### WIRE ROPE CONFIGURATION

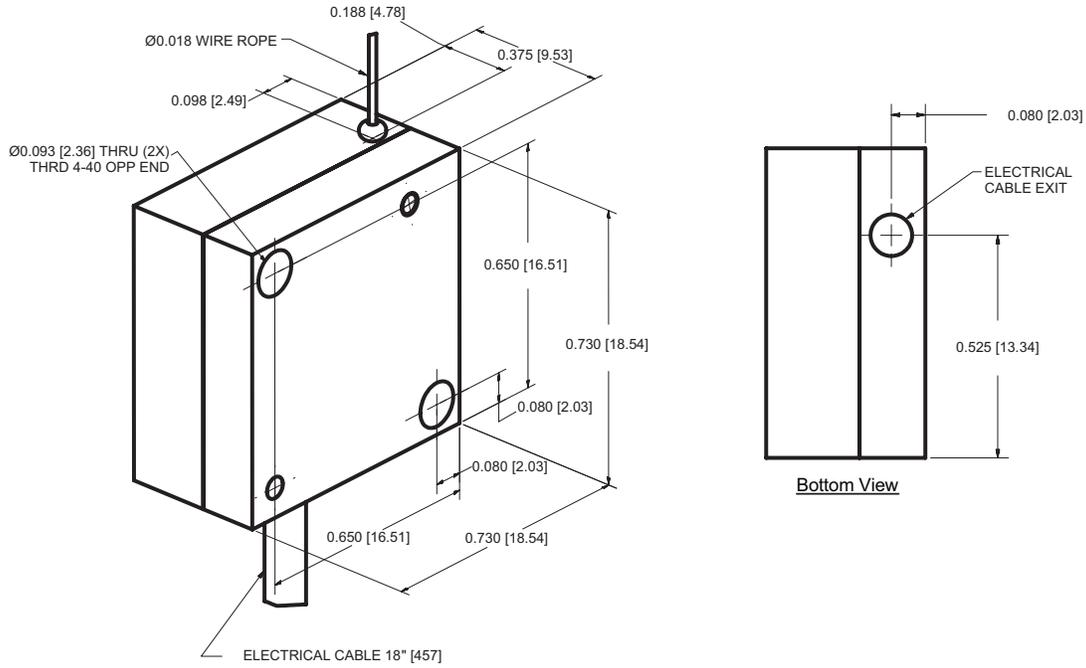
- A..... Eye Fitting, See **FIG A**
- B..... 24" (600 mm) Leader Wire Rope with Fittings, See **FIG B**



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**DIMENSIONAL INFORMATION**

**ZX-PA Series**



Dimensions in brackets are millimeters

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