



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

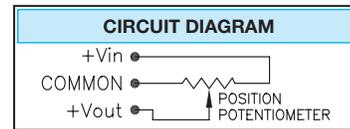
Measurement Range..... 1.5 inch (38 mm)
 Sensing Device..... Precision Co-Molded Potentiometer
 Resolution..... Essentially Infinite
 Linearity ±1.0% Full Scale
 Repeatability ±0.03% Full Scale
 Construction Anodized Aluminum Housing
 Wire Rope Ø0.018" (0.46 mm) Nylon Jacketed Stainless Steel
 Wire Rope 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^[1]
 24.8 mV/mm@ 1VDC Input Voltage^[1]
 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-

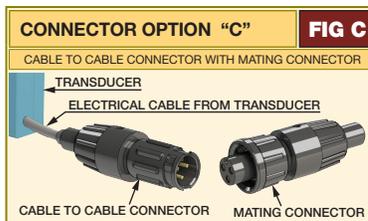
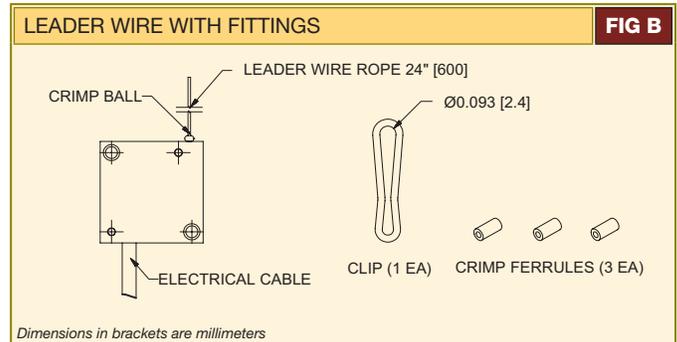
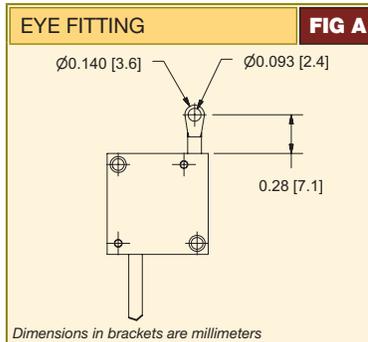


BASIC CONFIGURATION

ZX-PA-1.5-AQN

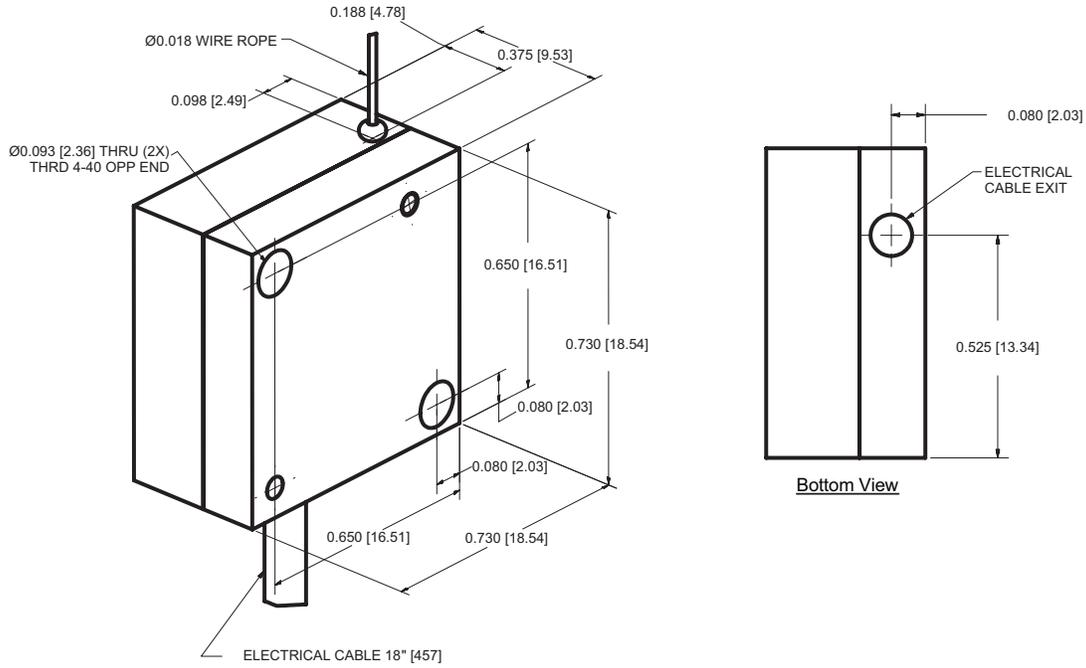
- 1 WIRE ROPE CONFIGURATION**
A..... Eye Fitting. See **FIG A**
B..... 24" (600 mm) Leader Wire Rope with Fittings. See **FIG B**
- 2 ELECTRICAL CABLE**
P..... 0.15m (6")
Q..... 0.5m (20")
- 3 CONNECTOR**
N.....No connector
C.....Cable to cable connector with mating connector. See **FIG C**
K.....Cable to cable connector with **NO** mating connector. See **FIG D**

For Option "K", mating connector with electrical cable is available as P/N 10248-xM where "x" is required length in meters



DIMENSIONAL INFORMATION

ZX-PA Series



Dimensions in brackets are millimeters