

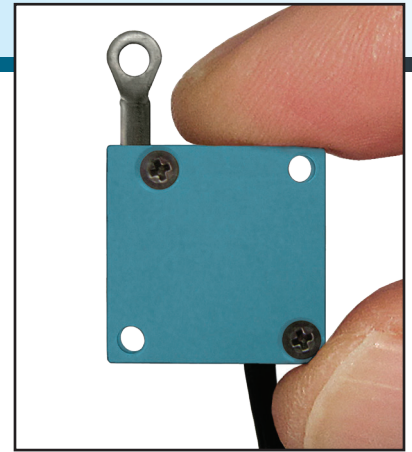
ZX-HM SERIES - Analog Position Transducer

HALL EFFECT VOLTAGE OUTPUT



UniMeasure ZX-HM Series employs a non-contact hall effect internal sensing element. With an overall measurement range of 1.5" (38mm), model ZX-HM-1.5 is ideal for applications where space is at a premium or where dithering motion or continuous oscillation may be encountered. With a wide operating temperature range, the non-contact internal hall effect sensing element allows for an extremely long service life without output signal degradation.

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	Non Contact Hall Effect Device
Resolution	0.0016 in (0.04 mm)
Linearity	±1.0% Full Scale
Repeatability	±0.0032 in (0.08 mm)
Construction	Anodized Aluminum Housing
Wire Rope	Ø0.018" (0.46 mm) Nylon Jacketed Stainless Steel
Wire Rope Tension	4 oz (1.1 N)
Weight	0.52 oz (15 gm)
Electrical Connection	3 conductor cable, 18" (457mm) length
Dynamic Response	25 Hz over full range extension
Life	30,000,000 full stroke cycles

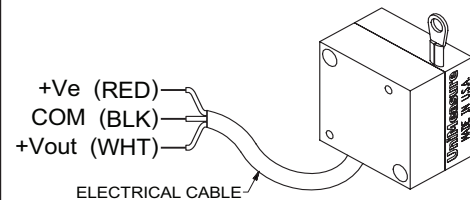
ENVIRONMENTAL

Operating Temperature	-40° C to 100° C
Storage Temperature	-55° 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

Excitation Voltage	5.00 ± 0.25 VDC
Excitation Current	21 mA Max.
Output Voltage	89% ± 3% of Excitation Voltage
Minimum Load Impedance	30K Ohms

CONNECTION DIAGRAM



MODEL NUMBER CONFIGURATION

ZX-HM-1.5-



BASIC CONFIGURATION

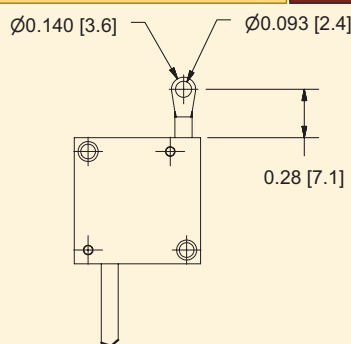
ZX-HM-1.5-A

WIRE ROPE CONFIGURATION

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

EYE FITTING

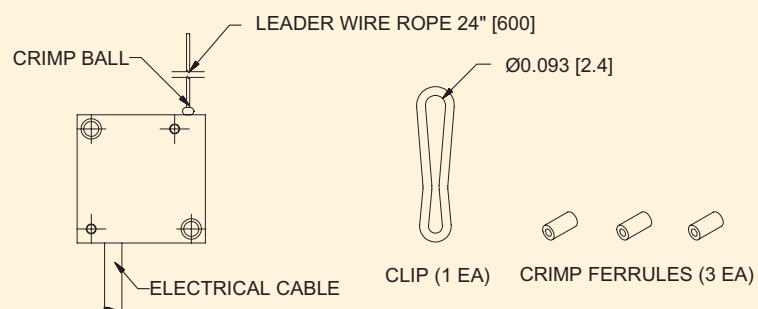
FIG A



Dimensions in brackets are millimeters

LEADER WIRE WITH FITTINGS

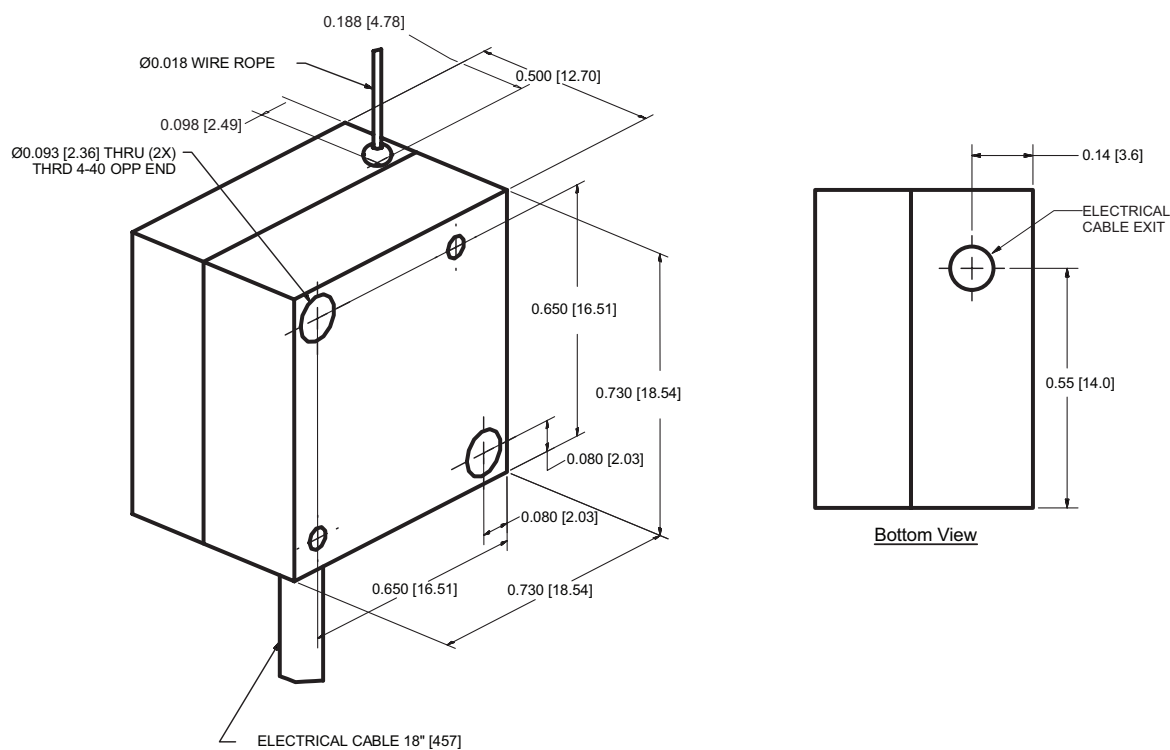
FIG B



Dimensions in brackets are millimeters

DIMENSIONAL INFORMATION

ZX-HM Series



Dimensions in brackets are millimeters