FX-HM SERIES - Analog Position Transducer 0 to 10 VDC ANALOG OUTPUT

The FX-HM series linear position transducer provides up to 15" (381mm) of measurement range in a subcompact plastic package. With a two point mounting system and a diameter of 1.5 inches, it is ideal for use in areas where space is a premium. The device employs a non-contacting hall effect internal sensor which permits use in applications where a very high cycle life is required. With an excitation voltage requirement anywhere in the range of 4.9 to 30 volts and a very low current requirement, the unit may be battery powered or operated from most standard instrumentation power supplies. The analog voltage output of nominally 0 to 10 VDC may be easily interfaced to most popular data acquisition, PLC and display devices. The FX-HM with a dynamic response capability



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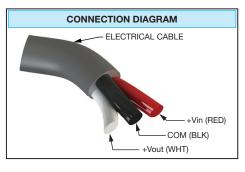
up to 25 Hz over a 1.5" range is acceptable for use in measuring suspension travel, throttle position, machine mechanism monitoring and many other applications where space restrictions exist.

SPECIFICATIONS

GENERAL

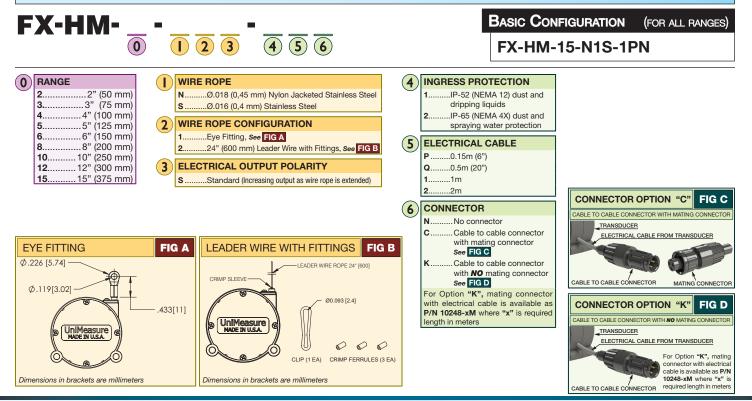
QEITER AL		
Me	asurement Range	. See Range Table below
Ser	nsing Device	. Precision Hall Effect Device
		. 0.024% of Measurement Range
Lin	earity	. ±1.0% Full Scale
Re	peatability	. ±0.03% of Full Scale
	nstruction	
Wir	e Rope	. Ø.018 (0.46 mm) Nylon Jacketed Stainless Steel
	minal Wire Rope Tension	
We	ight	. 1.2 oz (35gm)
Co	nnections	. Electrical cable with or without plastic connector
Life	9	. 100,000,000 inches of travel
ENVIRONMENTAL		
Ор	erating Temperature	25°C to 75°C
	prage Temperature	
	erating Humidity	
Vib	ration	. 15 G's 0.1 ms max.
Sho	ock	. 50 G's 0.1 ms max
INGRESS PROTECTION		
Sta	ndard	. IP-52 (NEMA 12)

ELECTRICAL



MODEL NUMBER CONFIGURATION

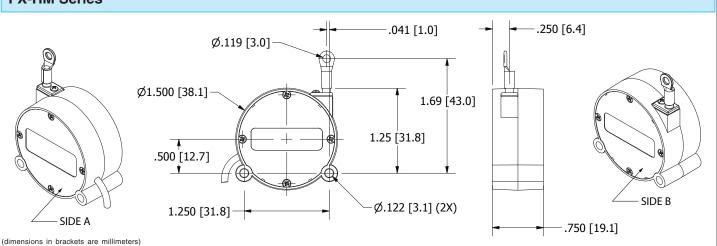
Optional IP-65 (NEMA 4X)



Uni Measure, Inc. 4175 SW Research Way, Corvallis, Oregon 97333 U.S.A. | Tel: 541-757-3158 | Fax: 541-757-0858 | Email: sales@unimeasure.com

DIMENSIONAL INFORMATION

FX-HM Series



ACCESSORIES

10443 – RIGHT ANGLE MOUNTING BRACKET

The Right Angle Mounting Bracket serves as a base for mounting the FX-HM transducer perpendicular to a surface. The transducer may be mounted in any of eight different wire rope exit orientations when mounted on the outside of the bracket (see figure) or any of five orientations when placed above the bracket mounting holes. ORDER MODEL NUMBER: 10443

10442 - TWO AXIS SWIVEL BASE

With a capability of 360° rotation about the vertical axis and 260° rotation about the horizontal axis, the 10442 Two Axis Swivel Base allows easy setup of the FX-HM transducer. The axes may be locked in place after the transducer is oriented. Ideal for quick setups. ORDER MODEL NUMBER: 10442



RIGHT ANGLE MOUNTING BRACKET

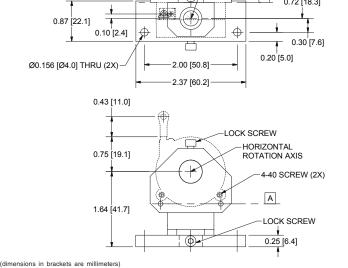






SWIVEL BASE W/ TRANSDUCER MOUNTED





- 1.25 [31.8] -0.13 [3.2] \$ 0.60 [15.2] MOUNTING HOLES (2X) WIRE ROPE CENTERLINE -0.34 [8.5] -0.43 [11.0] 1.16 [29.5 0 47 [12.0] 0.04 [1.0] П¢ -2.50 [63.4] 2.13 [54.2 1.67 [42.4] 1.66 [42.1] 0.49 [12.5] L_{0.11 [2.9]} 0.02 [0.4] [18.1] 0.04 [1.0] MOUNTING SURFACE -1.22 [31.0] 0.80 [20.2] -0.13 [3.2] ------ 1.25 [31.8] dimensions in brackets are millimeters)

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