

FX-HM

ELECTRICAL

BASIC CONFIGURATION

FX-HM-15-N1S-1PN

Subminiature - 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



(FOR ALL RANGES)

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**UniMeasure** 

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.

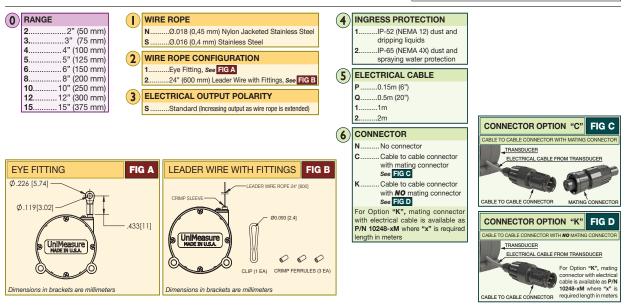
## **SPECIFICATIONS**

## GENERAL

GENERAL	ELECTRICAL
Measurement Range See Range Table below	Output0 to 10VDC +0.0 -0.2 VDC
Sensing Device Precision Hall Effect Device	Excitation Voltage4.9 to 30 VDC
Resolution 0.024% of Measurement Range	Excitation Current
Linearity±1.0% Full Scale	Output Impedance10Ω max
Repeatability ±0.03% of Full Scale	Output Load100KΩ min
Construction Thermoplastic Body	ProtectionReversed Polarity
Wire RopeØ.018 (0.46 mm) Nylon Jacketed Stainless Steel	
Nominal Wire Rope Tension 5 oz (1.5 N)	CONNECTION DIAGRAM
Weight 1.2 oz (35gm)	
Connections Electrical cable with or without plastic connector	ELECTRICAL CABLE
Life 100,000,000 inches of travel	
ENVIRONMENTAL	
Operating Temperature25°C to 75°C	
Storage Temperature50°C to 80°C	
Operating Humidity	
Vibration 15 G's 0.1 ms max.	+Vin (RED)
Shock 50 G's 0.1 ms max	COM (BLK)
INGRESS PROTECTION	+Vout (WHT)
Standard IP-52 (NEMA 12)	
OptionalIP-65 (NEMA 4X)	

## MODEL NUMBER CONFIGURATION

FX-HM- $\overline{1}\overline{2}\overline{3}$ 4 5 6  $\overline{\mathbf{0}}$ 

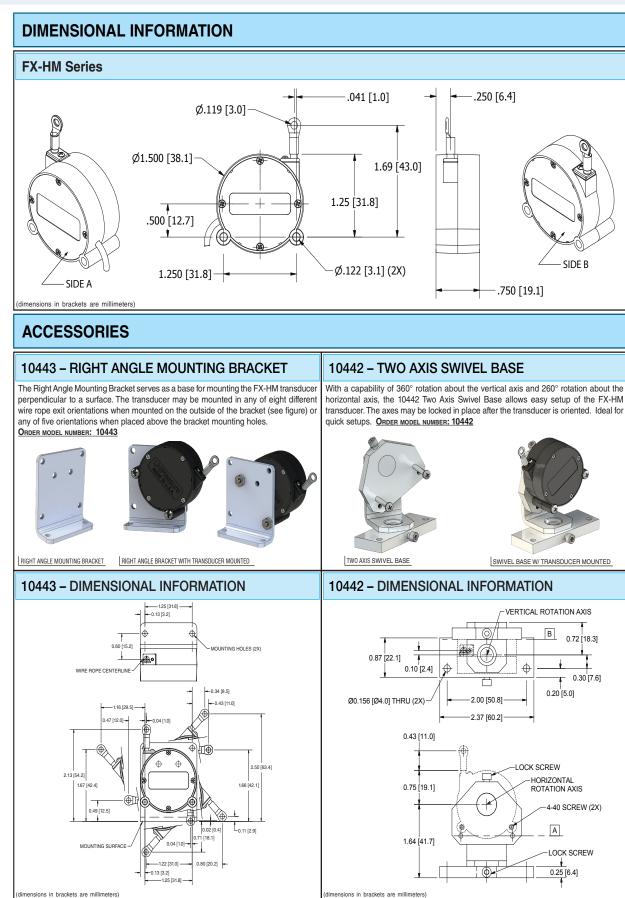


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