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.

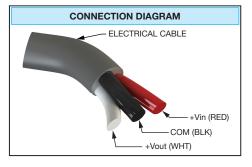
SPECIFICATIONS

GENERAL

GLITERAL
Measurement Range See Range Table below
Sensing DevicePrecision Hall Effect Device
Resolution 0.024% of Measurement Range
Linearity±1.0% Full Scale
Repeatability±0.03% of Full Scale
ConstructionThermoplastic Body
Wire Rope
Nominal Wire Rope Tension 5 oz (1.5 N)
Weight1.2 oz (35gm)
Connections Electrical cable with or without plastic connector
Life100,000,000 inches of travel
ENVIRONMENTAL
Operating Temperature25°C to 75°C
Storage Temperature50°C to 80°C
Operating Humidity95% R.H. non-condensing
Vibration 15 G's 0.1 ms max.
Shock 50 G's 0.1 ms max
INGRESS PROTECTION

ELECTRICAL

Output	0 to 10VDC +0.0 -0.2 VDC
Excitation Voltage	4.9 to 30 VDC
Excitation Current	30 mA max
Output Impedance	10Ω max
Output Load	100KΩ min
Protection	Reversed Polarity



MODEL NUMBER CONFIGURATION

Standard...... IP-52 (NEMA 12) Optional IP-65 (NEMA 4X)

FX-HM-





WIRE ROPE







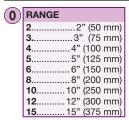
N......Ø.018 (0,45 mm) Nylon Jacketed Stainless Steel

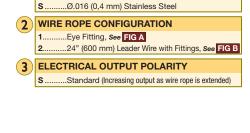


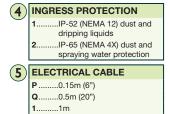
Basic Configuration

(FOR ALL RANGES)

FX-HM-15-N1S-1PN



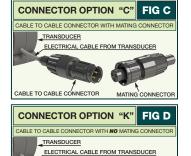




2.....2m

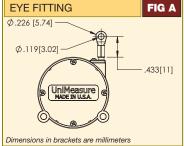
6 CONNECTOR N......No connector C...... Cable to cable connector with mating connector See FIG C Cable to cable connector with NO mating connector See FIG D

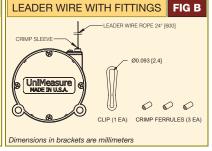
For Option "K", mating connector with electrical cable is available as P/N 10248-xM where "x" is required length in meters



For Option "K", mating

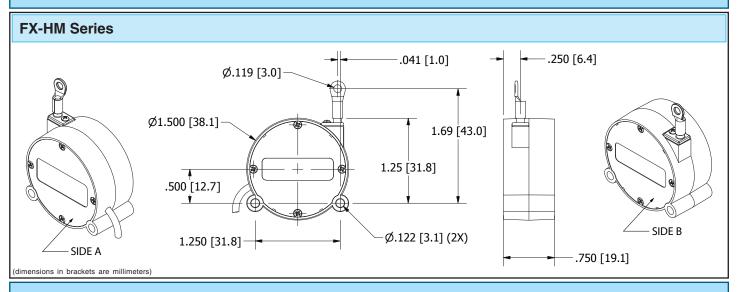
cable is available as P/N 10248-xM where "x"







DIMENSIONAL INFORMATION



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.







RIGHT ANGLE MOUNTING BRACKET

RIGHT ANGLE BRACKET WITH TRANSDUCER MOUNTED

10442 - TWO AXIS SWIVEL BASE

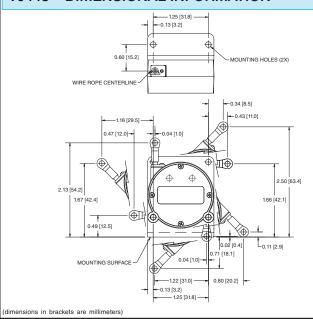
With a capability of 360° rotation about the vertical axis and 260° rotation about the horizontal axis, the 10442 Two Axis Swivel Base allows easy setup of the FX-HM transducer. The axes may be locked in place after the transducer is oriented. Ideal for quick setups. Order Model Number: 10442





SWIVEL BASE W/ TRANSDUCER MOUNTED

10443 - DIMENSIONAL INFORMATION



10442 - DIMENSIONAL INFORMATION

