JX-HM SERIES HALL EFFECT, ANALOG OUTPUT

The UniMeasure JX-HM series linear position measuring transducer is a relatively low cost device for use in moderate duty applications in hostile wet or dry environments. The chemical resistant thermoplastic case provides IP-67 (NEMA 6) ingress protection for applications where exposure to wash down, rain, oil and other liquids may occur. An integral dust wiper insures that the wire rope stays clear of debris as it is extracted and retracted.

The sensing device is a non-contacting multi-turn absolute magnetic encoder which is not susceptible to wear in a vibrating or dithering environment. The unit is available with either a current output (4 to 20mA or 0 to 20mA) or a voltage output (0 to 5V, 0 to 10V, ±5V and ±10V). Removal of a sealed access hatch on the rear of the unit (See FIG 1 below) reveals DIP switches that may be used for selecting the desired voltage or current outputs, and also push buttons that may be used for programming the zero and span settings. Zero and span may be set anywhere within the range of the transducer.

The standard electrical connection includes a M12 sealed 4 position connector. For applications not requiring a connector, a bulkhead fitting with a length of multi-conductor electrical cable is available. One of four possible electrical connection locations on the transducer body may be specified when ordering. The wire rope exit direction may also be specified at time of order or may be user adjusted at time of installation.

SPECIFICATIONS

GENERAL	
Measurement Range	See Range Table below
Sensing Device	Non-Contact Hall Effect Device
Linearity	±0.10% Full Scale
Repeatability	±0.03% Full Scale
Construction	Thermoplastic Body
Wire Rope	Ø.034 (0.86 mm)
	Nylon Jacketed Stainless Steel
Wire Rope Tension	28 oz. (7.8N)
Weight	2 lb. (.9 Kg)
Life	
150" Range	500,000 full stroke cycles
300" Range	250,000 full stroke cycles
CVR System	Protection from accidental free
	release of wire rope (optional)
ENVIDONMENTAL	

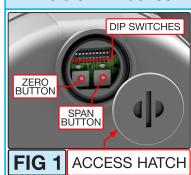
NVIRONMENTAL	
Operating Temperature	-25°C to 75°C
Storage Temperature	-50°C to 80°C
Operating Humidity	100% R.H.
Vibration	15 G's 0.1 ms max.
Shock	50 G's 0.1 ms max.
Ingress Protection	IP-67 (NEMA 6)

ELECTRICAL

Excitation Voltage	4.9 to 30 VDC
Power Consumption	
JX-HM4	840 mW max
JX-HM5	500 mW max
Protection	Reversed Polarity
Zero Set Adjustment Rang	eAnywhere in Range
Span Set Adjustment Rang	geAnywhere in Range
OUTPUT	
JX-HM4 Model	4 to 20 mA, 0 to 20mA
Output Load	550 Ohm Max.
JX-HM5 Model	0 to 5, 0 to 10, ±5, ±10 VDC
Output Load	10K Ohm Min.
ELECTRICAL CONNECTIO	N
Standard	M12 Sealed plastic connector 4 position
Option	Bulkhead Fitting w/ electrical cable
ELECTRICAL CONNE	CTIONS

ELECTRICAL CONNECTIONS	
+Vin——	
COMMON—	SIGNAL
соммон	CONDITIONER
±Vout or lout——	

ZERO & SPAN ACCESS



MODEL NUMBER CONFIGURATION

JX-HM















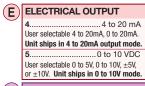




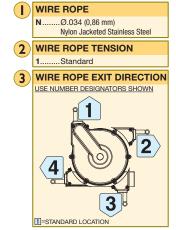


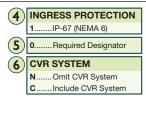
BASIC CONFIGURATION (FOR ALL RANGES)

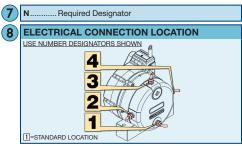
JX-HM4-150-N11-10N-N1M

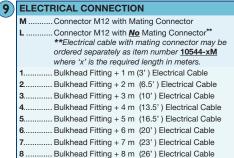


(0) RANGE **150**......150"(3.8m) **300**......300"(7.5m)













ADDITIONAL OPTIONS

Controlled Velocity Retraction (CVR) System

The CVR system offers protection from accidental free release of the wire rope. The system slows wire rope retraction to a safe speed that avoids damage that can occur during a free release. It is highly recommended for applications where the wire rope may be manually extended and retracted or in applications where the wire rope may be disconnected and reconnected often in the measuring system.

DIMENSIONAL INFORMATION

