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

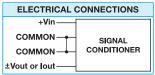
GENERAL	
Measurement Range	See Range Table below
Sensing Device	Non-Contact Hall Effect Device
Linearity	±0.10% Full Scale
Repeatability	±0.03% Full Scale
Construction	
Wire Rope	Ø.034 (0.86 mm)
	Nylon Jacketed Stainless Steel
Wire Rope Tension	28 oz. (7.8N)
Weight	
Life	, ,,
150" Range	500,000 full stroke cycles
300" Range	250,000 full stroke cycles
400" Range	40x106 lineal inches
	Protection from accidental free
,	release of wire rope (optional)

ENVIRONMENTAL

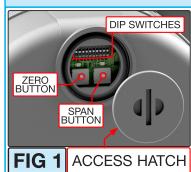
Operating Temperature	25°C to 75°C
Storage Temperature	50°C to 80°C
Operating Humidity	100% R.H.
Vibration	15 G's 0.1 ms max.
Shock	50 G's 0.1 ms max.
Ingress Protection	IP-67 (NEMA 6)

ELECTRICAL

	ELECTRICAL CONNECTION	NS		
	Option	. Bulkhe	ad Fitting w/ electrical cable	
	Standard	. M12 Se	aled plastic connector 4 position	
ELECTRICAL CONNECTION				
	Output Load	.10K OI	nm Min.	
	JX-HM5 Model	.0 to 5,	0 to 10, ±5, ±10 VDC	
	Output Load	.550 Oł	nm Max.	
	JX-HM4 Model	.4 to 20	mA, 0 to 20mA	
C	OUTPUT			
	Span Set Adjustment Range	. Anywh	ere in Range	
	Zero Set Adjustment Range	. Anywh	ere in Range	
	Protection	. Revers	ed Polarity	
	JX-HM5	.500 m\	W max	
	JX-HM4	.840 m\	W max	
	Power Consumption			
	Excitation Voltage	. 4.9 to 3	30 VDC	



ZERO & SPAN ACCESS



MODEL NUMBER CONFIGURATION

JX-HM



















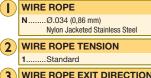


BASIC CONFIGURATION (FOR ALL RANGES)

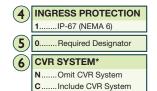
JX-HM4-150-N11-10N-N1M

ELECTRICAL OUTPUT User selectable 4-20mA, 0-20mA Unit ships in 4 to 20mA output mode0 to 10 VDC User selectable 0-5V, 0-10V, ±5V, ±10V. Unit ships in 0 to 10V mode

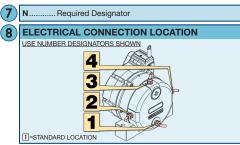
(0) RANGE **150**......150"(3.8m) 300.....300"(7.5m)400"(10.1m) 400.

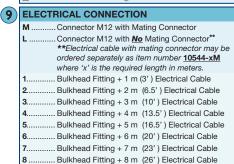






* CVR system offers protection from accidental free release of wire rope. Since system response is negatively impacted by CVR system, it is only suggested for slow moving applications or where wire rope may be attached and unattached ofter







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

