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.

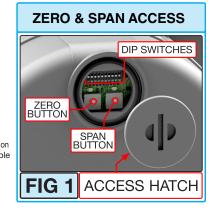
The sensing device is a non-contacting multi-turn absolute magnetic encoder which is not susceptible to wear in a vibrating or dithering environment. The unit is available with either a current output (4 to 20mA or 0 to 20mA) or a voltage output (0 to 5V, 0 to 10V, ±5V and ±10V). Removal of a sealed 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				
ENVIRONMENTAL					
Operating Temperature	-25°C to 75°C				
Storage Temperature	-50°C to 80°C				
Operating Humidity					
Vibration	15 G's 0.1 ms max.				
Shock	50 G's 0.1 ms max.				

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



MODEL NUMBER CONFIGURATION

JX-HM



Ingress Protection IP-67 (NEMA 6)





WIRE ROPE







+Vin

COMMON

COMMON ±Vout or lout





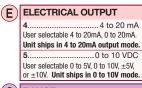
SIGNAL CONDITIONER



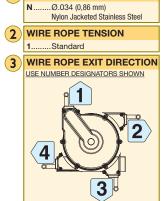


BASIC CONFIGURATION (FOR ALL RANGES)

JX-HM4-150-N11-100-N1M

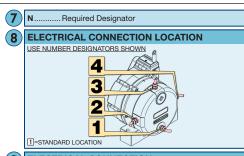


0 RANGE 150......150"(3.8m) **300**......300"(7.5m)



11=STANDARD LOCATION







DIMENSIONAL INFORMATION

