The UniMeasure JX-EP series linear position transducer with digital output is oriented for use in moderate duty applications in hostile wet or dry environments. The chemical resistant thermoplastic case of the transducer with integral dust wiper is factory configurable to IP-52 (NEMA 12) for dust protection or to IP-65 (NEMA 4X) for applications where exposure to washdown, rain, oil and other liquids may occur. The sealed case is achieved through the use of o-rings and a low friction shaft seal. The wire rope exit direction may be specified at time of order or may be user adjusted at time of installation. The standard electrical connection includes a sealed bulkhead fitting and multi-conductor electrical cable. An optional cable to cable connector with mating connector may be added to the electrical cable. Alternatively, the cable to cable connector may be ordered without the mating connector. The mating connector with a length of electrical

cable attached may be ordered as a separate item. As a convenience, optional connector locations on the transducer body are offered. The standard electrical output of the unit is a TTL level two channel square wave in quadrature. Optional outputs include line driver and push-pull circuits.

SPECIFICATIONS

GENERAL	
Measurement Range	.See Range Table below
Sensing Device	.Digital Encoder
Nominal Resolution[2]	-
10" range	.445 counts/inch, 17.5 counts/mm
15", 30" range	.327 counts/inch, 12.9 counts/mm
20", 40" range	.246 counts/inch, 9.7 counts/mm
25", 50" range	. 198 counts/inch, 7.8 counts/mm
60" range	. 166 counts/inch, 6.5 counts/mm
	. 126 counts/inch, 5.0 counts/mm
Linearity	.±0.10% Full Scale
Repeatability	
(in times 1 counting mode)	.±1 Count, ranges to 25"
	±2 Counts, ranges 30" to 80"
Construction	.Thermoplastic Body
	.Ø.018 (0.46 mm) Jacketed Stainless Steel
Wire Rope Tension	.See Supplemental Data[1]
Weight	
Connection	.24 AWG Shielded Electrical Cable

LIFE (to wire rope replacement)
Ranges 10" to 25"	. 1,000,000 full stroke cycles
Ranges 30" to 80"	. 500,000 full stroke cycles
ENVIRONMENTAL	
Operating Temperature	40°C to 70°C
Storage Temperature	40°C to 80°C
Operating Humidity	. 95% R.H. non-condensing IP-52
	case 100% R.H. IP-65 case
Vibration	. 20 G's maximum
Ingress Protection	. IP-65 (NEMA 4X) or IP-52 (NEMA 12)
ELECTRICAL	
Excitation Voltage	. +5 VDC ±5% or 5-28 VDC
Excitation Current	. 85mA MAX
Output	. 2 channel square wave in
	Quadrature TTL Level Current
	Sinking with 65 KΩ Pullups

FOOTNOTES TO SPECIFICATIONS

- 1. Supplemental Data section located at end of JX Series pages.
- Resolution shown is for times one counting mode. Resolution may be increased by a factor of four with interface electronics capable of quadrature times 4 counting mode.

MODEL NUMBER CONFIGURATION

JX-EP-





WIRE ROPE









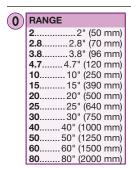


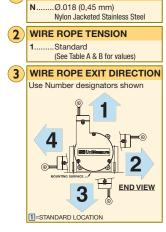


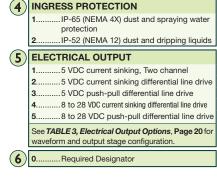
Basic Configuration

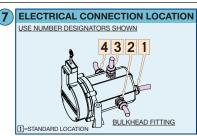
(FOR ALL RANGES)

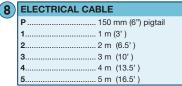
JX-EP-50-N11-210-1PN

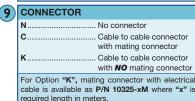










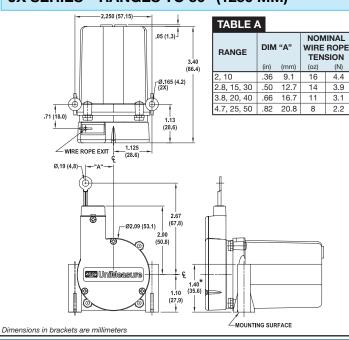






DIMENSIONAL INFORMATION

JX SERIES - RANGES TO 50" (1250 MM)



JX SERIES - RANGES 60" (1.5 M) AND 80" (2 M)

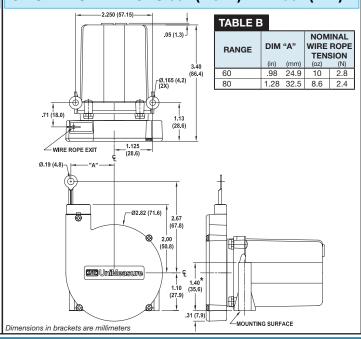
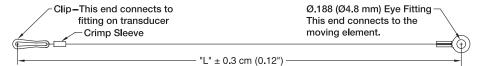


TABLE 3 – JX-EP SERIES ELECTRICAL OUTPUT OPTIONS

OPTION	OUTPUT TYPE	OUTPUT STAGE	WAVEFORM
1	5 VDC TTL Two Channel Current Sinking Two channels in quadrature with $65 \mathrm{K}\Omega$ internal pullup resistors. Input Voltage: 5 VDC.	+5 VDC 65KQ Vout COMMON	A PTALATALATI
2	5 VDC TTL Current Sinking Differential Line Drive Current sinking line drive output. $2K\Omega$ internal pullup resistors. Input Voltage: 5 VDC.	+5 VDC 2KΩ 	
3	5 VDC Push-Pull Differential Line Drive Push-Pull, current sourcing and current sinking output.Output is compliant with requirements of TIA/EIA-422-B. <i>Input Voltage: 5 VDC.</i>	+5 VDC AM26C31 Vout COMMON	
4	8 to 28 VDC Current Sinking Differential Line Drive Current sinking line drive output with $10K\Omega$ internal pullup resistors. Input Voltage: 8 to 28 VDC.	+8 to +28 VDC 10ΚΩ} 	B B B B B B B B B B B B B B B B B B B
5	8 to 28 VDC Push-Pull Differential Line Drive Push-Pull, current sourcing and current sinking output. Input Voltage: 8 to 28 VDC.	+8 to +28 VDC 7272 Vout COMMON	

10067 - AUXILIARY WIRE ROPE EXTENSION KIT

The auxiliary wire rope extension may be used to facilitate mounting the transducer remotely from 10067the measurement point. The clip on the extension attaches to the eye fitting on the transducer. The eye fitting on the opposite end, which is identical to the fitting on the transducer, mounts to the moving element. The extension kit is also available with the clip end unterminated for situations where it is more convenient to size the wire rope length during installation. Clip and crimp fitting are included with the unterminated version.



-CM-

1 DIMENSION "L" Specify Dimension "L" in centimeters to the nearest whole centimeter

NOTES: 1. 1 cm = 0.394", 1 inch = 2.54 cm 2. Shortest length "L" is 5 cm (approximately 2") **UNTERMINATED CLIP END** Leave Blank.... Completed kit (No designator required)

> Unterminated Clip End (clip and crimp sleeve included in kit)