JX-EP SERIES DIGITAL OUTPUT

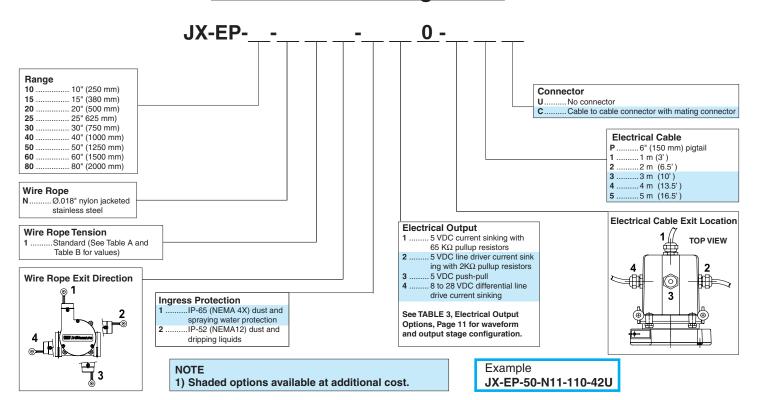
The UniMeasure JX-EP series linear position transducer with digital output is oriented for use in moderate duty applications in hostile wet or dry environments. The chemical resistant thermoplastic case of the transducer with integral dust wiper is factory configurable to NEMA 12 (IP-52) for dust protection or to NEMA 4X (IP-65) 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 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. As a convenience, optional connector locations on the transducer body are offered. The wire rope exit direction may be specified at time of order or may be user adjusted at time of installation.

The standard output of the unit is a TTL level two channel square wave in quadrature. Optional outputs include line driver and push-pull circuits.

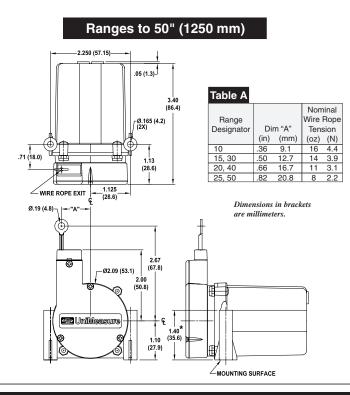


General	
Measurement Range	. See Range Table below
Sensing Device	. Digital Encoder
Nominal Resolution	
10" range	. 445 counts/inch, 17.5 counts/mm
15", 30" range	.327 counts/inch, 12.9 counts/mm
20", 40" range	
25", 50" range	. 198 counts/inch, 7.8 counts/mm
60" range	
80" range	. 126 counts/inch, 5.0 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
Wire Rope	. Ø.018 (0.46 mm) Jacketed Stainless Steel
Wire Rope Tension	. See Tables A & B, Page 11
Weight	. 6.3 oz. (180 gm)
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
Electrical	
Excitation Voltage	.5.00 ±0.25 VDC
Output	.2 channel square wave in quadrature,
	TTL level current sinking with 65 K Ω pullups
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	. NEMA 12 or 4X, IP-52 or 65

Model Number Configuration



JX SERIES DIMENSIONAL INFORMATION



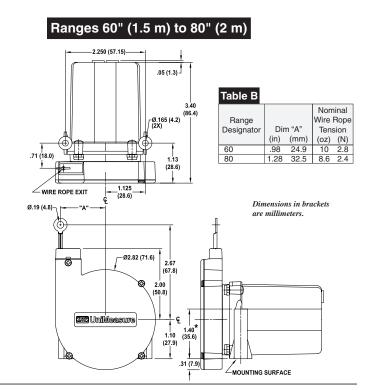


TABLE 3—Electrical Output Options—JX-EP Series

Option	Output Type	Output Stage	Waveform
"1"	5 VDC TTL Two Channel Current Sinking Two channels in quadrature with $65 \text{K}\Omega$ internal pullup resistors. 5 VDC input voltage	+5 VDC 65KQ Vout COMMON	A B A B A B A B A B A B A B A B A B A B
"2"	5 VDC TTL Differential Line Drive Current Sinking Line driver output. 35 mA current sinking capability with $2K\Omega$ internal pullup resistors. 5 VDC input voltage	$+5 \text{ VDC}$ $2 \text{K}\Omega$ $+ 5 \text{ VDC}$ $- \text{Vout}$	
"3"	5 VDC Push-Pull Push-Pull circuit with 20 mA current sourcing and 20 mA current sinking capability. +5 VDC input voltage	+5 VDC 2KΩ 7404 Vout 7404 COMMON	A DE LEGIS
"4"	8 to 28 VDC Differential Line Drive Current Sinking Line driver output. 35 mA current sinking with 10KΩ internal pullup resistors. 8 to 28 VDC input voltage	+8 to +28 VDC	

Accessory—10067 Auxiliary Wire Rope Extension Kit



The auxiliary wire rope extension may be used to facilitate mounting the transducer remotely from the 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. The clip and crimp sleeve are included as loose parts for user termination.

