The ID/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 ther-moplastic 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 DeviceDigital 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			
Wire Rope	.Ø.018 (0.46 mm) Jacketed Stainless Steel			
Wire Rope Tension	.See Supplemental Data[1]			
Weight				
o a	.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 Temperature40°C to 70°C				
Storage Temperature40°C to 80°C				
Operating Humidity95% R.H. non-condensing IP-52				
case 100% R.H. IP-65 case				
Vibration20 G's maximum				
Ingress Protection IP-65 (NEMA 4X) or IP-52 (NEMA 1	12)			
ELECTRICAL				
Excitation Voltage+5 VDC ±5% or 5-28 VDC				
Excitation Current85mA MAX				
Output2 channel square wave in				
Quadrature TTL Level Current				
Sinking with 65 KΩ Pullups				

FOOTNOTES TO SPECIFICATIONS

- 1. Supplemental Data section located at end of ID/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-











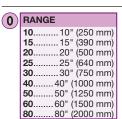


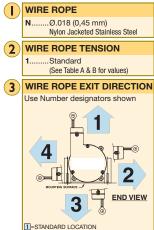


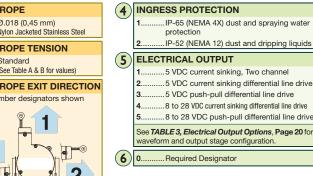


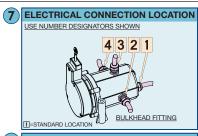


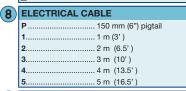
BASIC CONFIGURATION (FOR ALL RANGES) ID/JX-EP-50-N11-210-1PN











	5 5 m (16.5')
9	CONNECTOR
	NNo connector
	C Cable to cable connector with mating connector
	K Cable to cable connector with NO mating connector
	For Option "K", mating connector with electrical cable is available as P/N 10325-xM where "x" is required length in meters.





DIMENSIONAL INFORMATION

ID/JX SERIES - RANGES TO 50" (1250 MM) ID/JX SERIES - RANGES 60" (1.5 M) AND 80" (2 M) TABLE A TABLE B .05 (1.3) .05 (1.3) NOMINAL NOMINAL DIM "A" WIRE ROPE WIRE ROPE RANGE RANGE TENSION TENSION (in) (mm) -Ø.165 (4.2) (2X) .36 9.1 16 4.4 Ø.165 (4.2) (2X) 2.8, 15, 30 .50 12.7 3.9 80 1.28 32.5 8.6 2.4 3.8, 20, 40 .66 16.7 4.7, 25, 50 .82 20.8 8 2.2 71 (18.0) .71 (18.0) 1.13 (28.6) Ø.19 (4.8)-Ø.19 (4.8)-__Ø2.82 (71.6) -Ø2.09 (53.1) 2.00 (50.8)

TABLE 3 – ID/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 65KΩ internal pullup resistors. Input Voltage: 5 VDC.	+5 VDC 65ΚΩ Vout COMMON	A B
2	5 VDC TTL Current Sinking Differential Line Drive Current sinking line drive output. 2KΩ internal pullup resistors. <i>Input Voltage:</i> 5 VDC.	$+5 \text{ VDC}$ $2\text{K}\Omega$ $-\begin{array}{ c c c }\hline & +5 \text{ VDC}\\\hline & & \\\hline & \\\hline & \\\hline & &$	
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. Input Voltage: 5 VDC.	+5 VDC AM26C31 Vout COMMON	
4	8 to 28 VDC Current Sinking Differential Line Drive Current sinking line drive output with $10 \text{K}\Omega$ internal pullup resistors. Input Voltage: 8 to 28 VDC.	+8 to +28 VDC 10ΚΩ 	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	

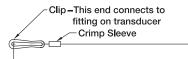
10067 - AUXILIARY WIRE ROPE EXTENSION KIT

(27.9)

ions in brackets are millim

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.

"L" ± 0.3 cm (0.12") -



Ø.188 (Ø4.8 mm) Eye Fitting This end connects to the moving element.



