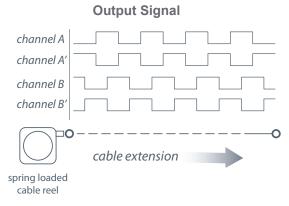




The PT5E encoder-based cable-extension transducer offers a unique thermoplastic cable that has virtually an infinite fatigue life. This cable, known as V62, has properties that are superior for high cycle and rugged applications.

Like our other transducers, the PT5E installs in minutes, functions properly without perfectly parallel alignment, and fits easily into small areas. The PT5E offers additional installation flexibility since its cable exit can be rotated relative to the mounting surface, providing four different cable exit orientations.



-- see ordering information for available channels

PT5E Cable Actuated Sensor Industrial Grade • Incremental Encoder

Absolute Linear Position to 250 inches (6350 mm) Hard Anodized Aluminum Enclosure High Cycle Applications IP67 • NEMA 6 Protection

GENERAL

Full Stroke Range Options Output Signal Options Accuracy Repeatability Resolution Measuring Cable Options Enclosure Material Sensor Max Measuring Cable Velocity Max Retraction Acceleration Weight

0-50 to 0-250 inches incremental encoder (quadrature) .04% to .1% f.s. – see ordering info .01% to .02% f.s. – see ordering info 10 to 250 pulses per inch stainless steel or thermoplastic hard anodized aluminum optical encoder see ordering information see ordering information 5 lbs. max.

ELECTRICAL

Input Voltage Input Current

ENVIRONMENTAL

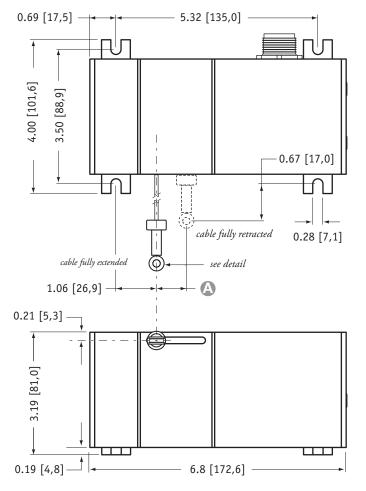
Enclosure Operating Temperature Vibration

NEMA 4/6, IP 65/67 0° to 160°F (-17° to 71°C) up to 10 g to 2000 Hz maximum

see ordering information

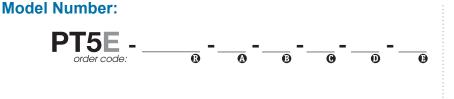
see ordering information

Outline Drawing:



DIMENSIONS ARE IN INCHES [MM] tolerances are 0.03 IN. [0.5 MM] unless otherwise noted.

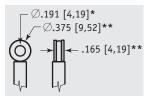
Ordering Information:

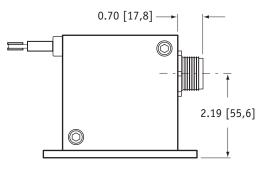


DIMENSION (inches[mm])

RANGE	N34 measuring cable	S47 & V62 measuring cable		
50	0.23 [5,9]	0.39 [9,9]		
100	0.46 [11,7]	0.78 [19,7]		
150	0.69 [17,6]	1.16 [29,6]		
200	0.92 [23,5]	n/a		
250	1.16 [29,3]	n/a		

eyelet detail





* tolerance = +.005 -.001 [+.13 -.03] ** tolerance = +.005 -.005 [+.13 -.13]

Sample Model Number:

P	Г5Е - 100 - N34 - FF	R - 100 - AB-TTL - M6
	range: measuring cable:	100 inches .034 nylon-coated stainless

measuring cable:
cable exit:
resolution:
output signal:
electrical connection:

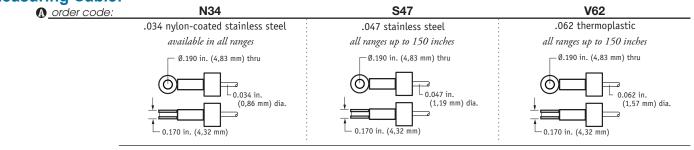
front 100±2 pulses per inch TTL/CMOS compatible driver 6-pin plastic connector

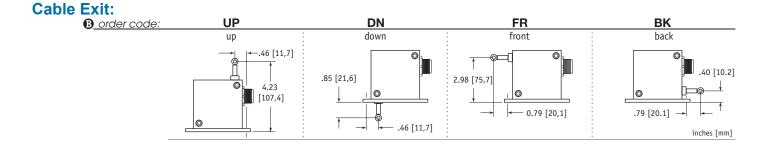
Full Stroke Range:

R order code:	50	100	150	200	250	1250	2500	3750	5000	6250
full stroke range, min:	50 in.	100 in.	150 in.	200 in.	250 in.	1250 mm	2500 mm	3750 mm	5000 mm	6250 mm
\triangle accuracy (± % of f.s.):	.1	.07	.06	.05	.04	.1	.07	.06	.05	.04
repeatability (± % of f.s.):	.02	.01	.01	.01	.01	.02	.01	.01	.01	.01
cable tension (±20%):		41 ounces		21 o	unces	8 8 8 8	11,4 N		5,8	Ν
. cable velocity • acceleration:	300 in./sec • 5 g		120 in./s	sec • 2 g	8 M/sec • 5 g		g	3 M/sec • 2 g		

Ordering Information (cont.):

Measuring Cable:





Resolution:

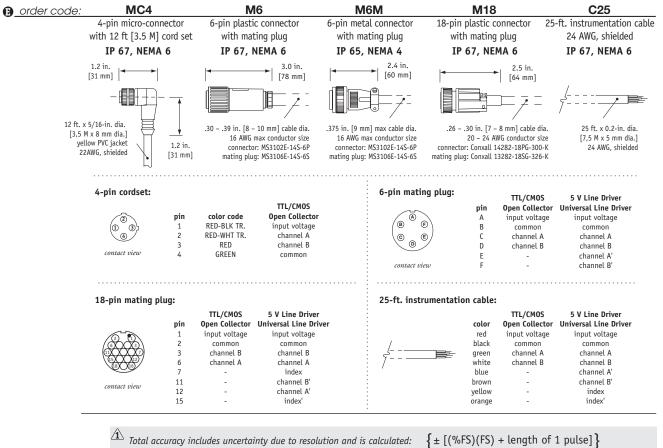
G _order code:	10	100	200	250
resolution for english ranges:	10 ±0.2 pulses per inch	100 ±2 pulses per inch	200 ±4 pulses per inch	250 ±5 pulses per inch
C order code:	.5	5	10	12.5
resolution for metric ranges:	0.5 ±0.01 pulses per mm	5 ±0.1 pulses per mm	10 ±0.2 pulses per mm	12.5 ±0.3 pulses per mm

Output Signals:

D order code:	AB-TTL	AB-TTL AB-OC ABC-LD		ABC-UD	ABZCUD	
output driver:	TTL/CMOS compatible	open collector	5-volt line driver	universal line driver	universal line driver	
	*			(no index)	(with index)	
input voltage:	4.513.2 VDC	10.826.4 VDC	5 VDC	530 VDC	530 VDC	
max. source/sink current:	20 mA sink	20 mA sink	20 mA sink	20 mA source/sink	20 mA source/sink	
max. input current:	80 mA	80 mA	150 mA	100 mA, no load	100 mA, no load	
	4.5-13.2 VDC V+ A A A B Com.	10.8-26.4 VDC A A A B C Com.	5 VDC A A A A A A A A A A A A A	5-30 VDC V A A A A B B B Output stage (1 of 4)	530 VDC Vi A A A A B B B output stage (1 of 6) index	

Ordering Information (cont.):

Electrical Connection:



Example:



19 Waterman Ave.Toronto,Ont. M4B1Y2 Tel:416-445-5500 Fax: 416-445-1170 Toll Free: 1-800-465-1600 Email: sales@intertechnology.com Website: www.intertechnology.com

Model Number: PT5E-100-N34-FR100-AB-TTL-M6

Accuracy: [.07% (100 in.) + 1/100 in.] = ± .08 inches

Full Stroke: 100 inches

