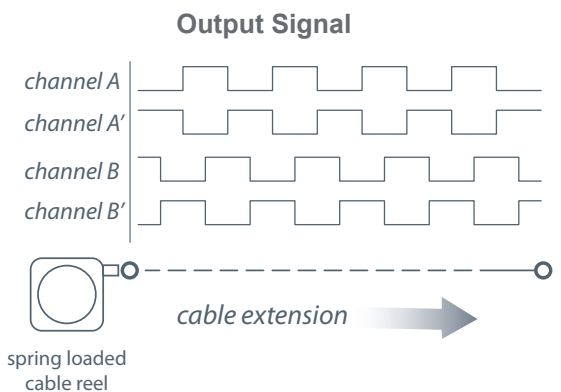


The PT5E encoder-based cable-extension transducer offers a unique thermoplastic cable that has virtually an infinite fatigue life. This cable, known as V62, has properties that are superior for high cycle and rugged applications.

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

see ordering information

see ordering information

ENVIRONMENTAL

Enclosure

Operating Temperature

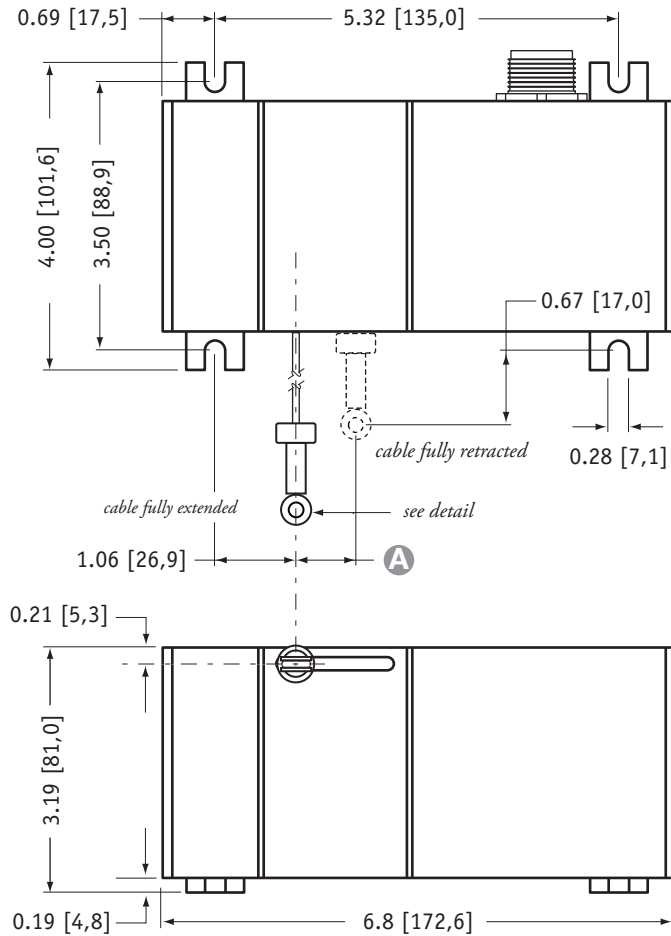
Vibration

NEMA 4/6, IP 65/67

0° to 160°F (-17° to 71°C)

up to 10 g to 2000 Hz maximum

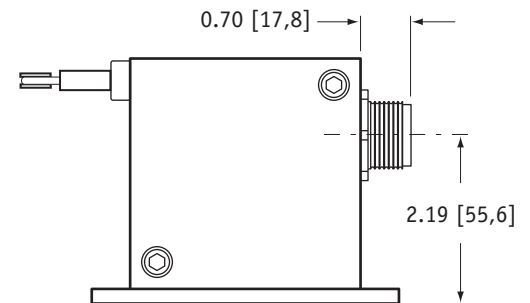
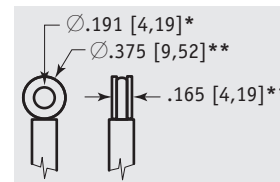
Outline Drawing:



A 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



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

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

Ordering Information:

Model Number:

PT5E - _____
order code: R A B C D E

Sample Model Number:

PT5E - 100 - N34 - FR - 100 - AB-TTL - M6

R range:	100 inches
A measuring cable:	.034 nylon-coated stainless
B cable exit:	front
C resolution:	100±2 pulses per inch
D output signal:	TTL/CMOS compatible driver
E electrical connection:	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
△ 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 ounces			11,4 N		5,8 N	
cable velocity • acceleration:	300 in./sec • 5 g			120 in./sec • 2 g			8 M/sec • 5 g		3 M/sec • 2 g	

Ordering Information (cont.):

Measuring Cable:

A order code:	N34	S47	V62
	.034 nylon-coated stainless steel <i>available in all ranges</i>	.047 stainless steel <i>all ranges up to 150 inches</i>	.062 thermoplastic <i>all ranges up to 150 inches</i>

Cable Exit:

B order code:	UP up	DN down	FR front	BK back
	inches [mm]			

Resolution:

C 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-OC	ABC-LD	ABC-UD	ABZCUD
output driver:	TTL/CMOS compatible	open collector	5-volt line driver	universal line driver (no index)	universal line driver (with index)
input voltage:	4.5...13.2 VDC	10.8...26.4 VDC	5 VDC	5...30 VDC	5...30 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

