



PT5DC

Description

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



The PT5DC cable-extension transducer uses 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 other transducers, the PT5DC installs in minutes, functions properly without perfectly parallel alignment, and fits easily into small areas. The PT5DC offers additional installation flexibility since its cable exit can be rotated relative to the mounting surface, providing four different cable exit orientations.

5 lbs. max.

Vibration

GENERAL ENVIRONMENTAL

Full Stroke Rang	e Options	0-10 to 0-250 inches						
Output Signal O	ptions	05, 010, -5+5, -10+10 VDC						
Accuracy	± 0.75% to ±0.18% fu	II stroke (see ordering information)						
Repeatability		see ordering information						
Resolution		essentially infinite						
Measuring Cable	e Options	stainless steel or thermoplastic						
Enclosure Mater	ial	hard anodized aluminum						
Sensor	plas	plastic-hybrid precision potentiometer						
Potentiometer C	ycle Life	see ordering information						
Maximum Meas	uring Cable Velocity	see ordering information						
Maximum Retra	ction Acceleration	see ordering information						

ELECTRICAL

Weight

Input	14.5-40 VDC (10.5-40 VDC for 0	O5 and -5+5 volt output)
Input Current		10 mA maximum
Output Imped	ance	1000 ohms
Maximum Loa	od	5000 ohms
Zero and Spar	n Adiustment	see ordering information

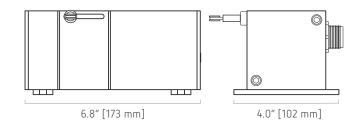
Enclosure NEMA 4/6, IP 65/67

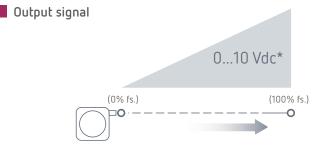
Operating Temperature -40° to 200°F (-40° to 90°C)

up to 10 q to 2000 Hz maximum

EMC COMPLIENCE PER DIRECTIVE 89/336/EEC

Emission/Immunity EN50081-2 / EN50082-2

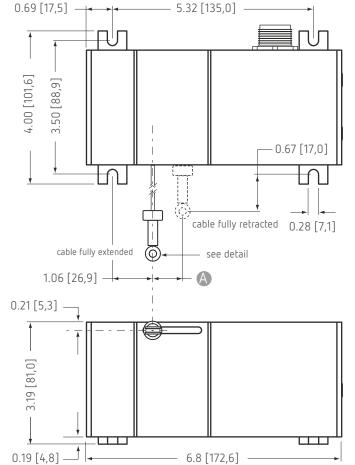




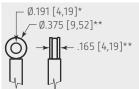
*Additional Output Options: 0...5, -5...+5, -10...+10 Vdc



Outline drawing

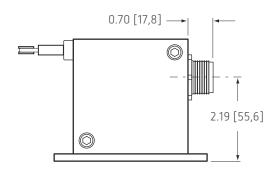


eyelet detail



DIMENSION (inches[mm])

RANGE	N34	S47 & V62					
KANGE	measuring cable	measuring cable					
10	0.05 [1,2]	0.08 [2,0]					
15	0.07 [1,8]	0.12 [3,0]					
20	0.09 [2,4]	0.16 [3,9]					
30	0.14 [3,5]	0.23 [5,9]					
40	0.19 [4,7]	0.31 [7,9]					
50	0.23 [5,9]	0.39 [9,9]					
60	0.28 [7,0]	0.47 [11,8]					
80	0.37 [9,4]	0.62 [15,8]					
100	0.46 [11,7]	0.78 [19,7]					
125	0.58 [14,7]	0.97 [24,7]					
150	0.69 [17,6]	1.16 [29,6]					
200	0.92 [23,5]	n/a					
250	1.16 [29,3]	n/a					



DIMENSIONS ARE IN INCHES [MM]

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

100 inches

Ordering Information

Model Number:

Sample Model Number:

PT5DC - 100 - N34 - FR - Z10 - M6

A measuring cable:

.034 nylon-coated stainless

B cable exit: front output signal: 0...10 vdc

 electrical connection: 6-pin plastic connector

Full Stroke Range:

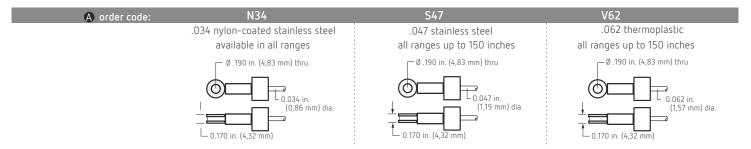
R order code:	10	15	20	25	30	40	50	60	80	100	125	150	200	250
full stroke range, min:	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.	80 in.	100 in	. 125 in	. 150 in	. 200 in.	250 in.
accuracy (± % of f.s.):	.75%	.6%	.5%	.5%	.5%	.3%	.3%	.25%	.25%	.25%	.25%	.18%	.18%	.18%
repeatability (\pm % of f.s.):	.1%	.1%	.05%	.05%	.05%	.05%	.05%	.02%	.02%	.02%	.02%	.02%	.02%	.02%
potentiometer cycle life:		2,50	10,000 c	ycles				500,0	00 cycle	?S		2	250,000	cycles
cable tension (20%):					41 o	unces								21 ounces
max. cable velocity/acceleration:					300 in./	sec · 5	g						120	in./sec · 2 g

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

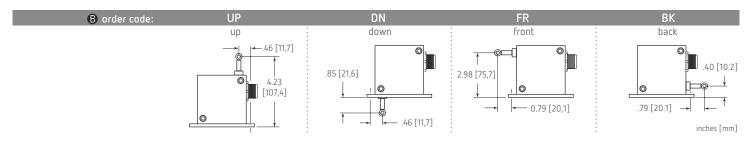


Ordering Information (cont.)

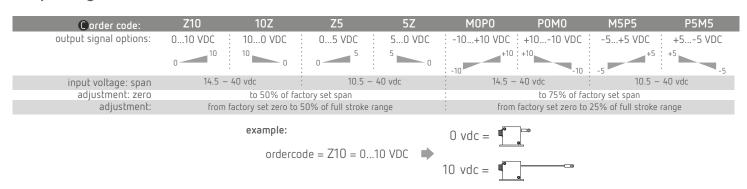
Measuring Cable Exit:



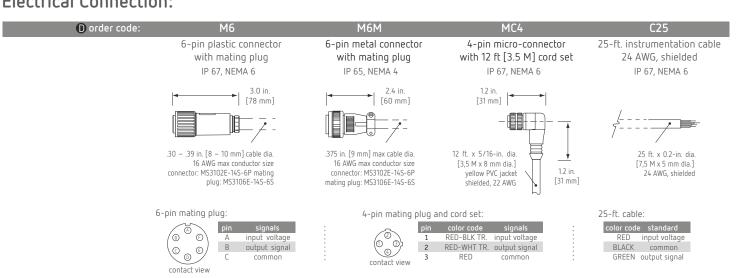
Cable Exit:



Output Signals:

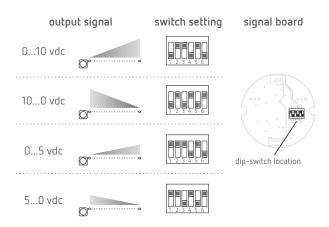


Electrical Connection:





Output Signal Selection (does not apply to -5...+5 & -10...+10 vdc options)



The output signal direction can be reversed at any time by simply changing the dip-switch settings found on the internal signal board. After the settings have been changed, adjustment of the Zero and Span trimpots will be required to precisely match signal values to the beginning and end points of the stroke.

To gain access to the signal board, remove four Allen-Head Screws and remove end cover bracket.

