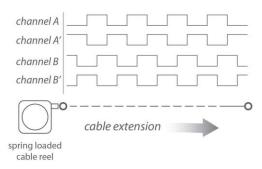




The heart of the PT1E is an incremental optical encoder which delivers a quadrature formatted digital pulse train. This compact transducer is available with several resolution options for a wide variety of applications from high accuracy position feedback to slow velocity feedback requirements.

The PT1E has many options available including full stroke measurement ranges from 0-2 inches up to 0-50 inches, different output drivers and alternate measuring cable exits.

Output Signal



-- see ordering information for available channels

PT1E

Cable Actuated Sensor Industrial Grade • Incremental Encoder

Linear Position to 50 inches (1270 mm)

Aluminum and Polycarbonate Enclosure

Compact Design • Incremental Encoder Output Signal

IP65 • NEMA 4 Protection

General

Full Stroke Range 0-2 to 0-50 inches

Output Signal incremental encoder (quadrature)

Accuracy ± 0.04% full stroke

Repeatability ± 0.02% full stroke

Resolution Options 25 to 1250 pulses per inch

Measuring Cable .019-in. dia. nylon-coated stainless steel

Enclosure glass-filled polycarbonate and black anodized aluminum

Sensor optical encoder

Maximum Retraction

Acceleration

see ordering information

Weight 1 lb. max.

Electrical

Input Voltage see ordering information

Input Current see ordering information

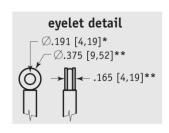
Environmental

Enclosure NEMA 4, IP 65

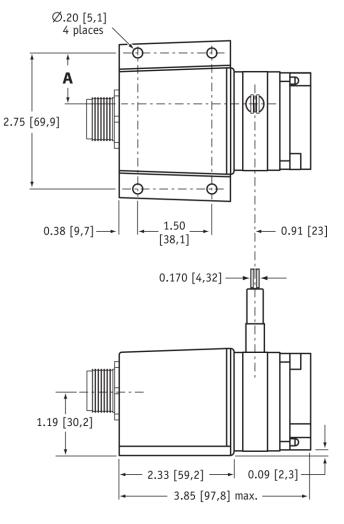
Operating Temperature 0° to 160°F (-17° to 71°C)

Vibration up to 10 g to 2000 Hz maximum

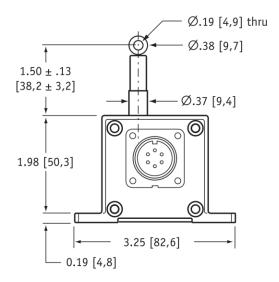
Outline Drawing



Range	Α		
25, 625	1.04 [26,4]		
50, 1250	0.74 [18,8]		
inches [mm]			



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



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

Ordering Information

Model Number:

order code:

Sample Model Number:

PT1E - 25 - UP - 50 - AB-TTL - MC4 - SG

25 inches R range: neasuring cable exit: resolution:

• electrical connection:

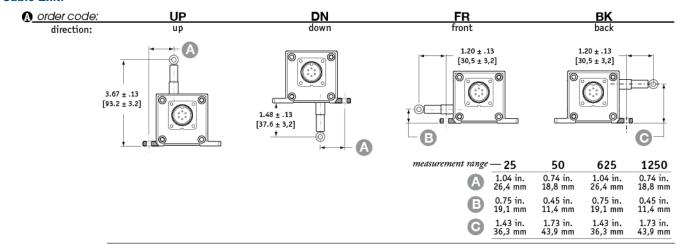
O output signal:
C cable guide:

50 pulses per inch 4-pin micro connector TTL/CMOS driver, Channels A,B spring-loaded guide

Full Stroke Range:

•				
order code:	25	50	625	1250
full stroke range, min:	25 in.	50 in.	625 mm	1250 mm
cable tension (±20%):	12 oz.	6 oz.	3,3 N	1,6 N
cable acceleration, max.:	11 g	4 g	11 g	4 g
resolution options:	50, 500, 1000, 1250 pulses per inch	25, 250, 500, 625 pulses per inch	2, 20, 40, 50 pulses per mm	1, 10, 20, 25 pulses per mm

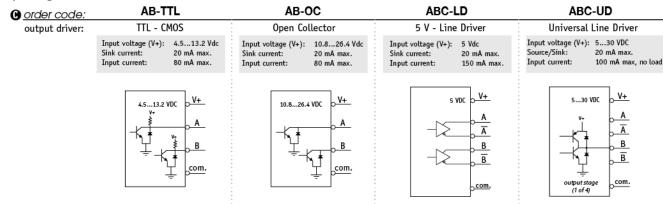
Cable Exit:



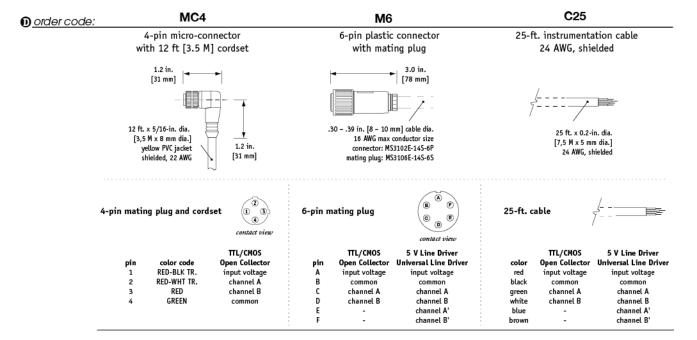
Resolution

B _order code:	50	500	1000	1250
25-inch full stroke range:	50 ±1 pulses per inch	500 ±10 pulses per inch	1000 ±20 pulses per inch	1250 ±24 pulses per inch
	05	050	500	COF
<u>order code:</u>	25	250	500	625
50-inch full stroke range:	25 ±0.5 pulses per inch	250 ±5 pulses per inch	500 ±10 pulses per inch	625 ±12 pulses per inch
Order code:	2	20	40	50
625 mm full stroke range:	2 ±0,04 pulses per mm	20 ±0,4 pulses per mm	40 ±0,8 pulses per mm	50 ±1 pulses per mm
6		40	••	
<u>Order code:</u>	1	10	20	25
1250 mm full stroke range:	1 ±0,02 pulses per mm	10 ±0,2 pulses per mm	20 ±0,4 pulses per mm	25 ±0,5 pulses per mm

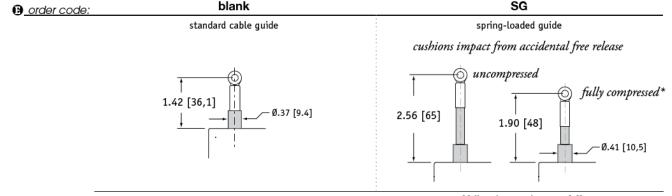
Output Signal



Electrical Connection:



Cable Guide:



*note: start of full stroke range begins at full compression point

NORTH AMERICA

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PT1E 12/01/2015

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