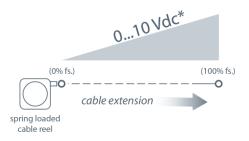




The PT1DC can operate from an unregulated 14.5 to 40 VDC power supply while providing an output signal that is proportional to the linear movement of its measuring cable. The PT1DC has a maximum measurement range up to 50" and has 4 output signal options to choose from: 0...10, 0...5, -10...+10 and -5...+5 Vdc.

Just like the rest of the PT1 series, the PT1DC also offers several options including forward and reverse output signals, zero and span adjustments and alternate measuring cable exits.



*Also Available: 0...5, -5...+5, -10...+10 Vdc

PT1DC

Cable Actuated Sensor Instrument Grade • 0..10, 0..5 Vdc

Absolute Linear Position to 50 inches (1270 mm)

Aluminum and Polycarbonate Enclosure

Compact Design

IP65 • NEMA 4 Protection

General

Full Stroke Range

0-2 to 0-50 inches

Options

Output Signal Options

0...5, 0...10, -5...+5, -10...+10 VDC

Accuracy

 \pm 0.28% to \pm 0.15% full stroke (see ordering information)

Repeatability ± 0.05% full stroke Resolution essentially infinite

Measuring Cable

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

Enclosure

glass-filled polycarbonate and black anodized aluminum

Sensor

plastic-hybrid precision potentiometer

Potentiometer Cycle

Life

see ordering information

Maximum Retraction

see ordering information

Acceleration

Weight 1 lb. max.

Electrical

Input 14.5-40 VDC (10.5-40 VDC for 0...5

and -5...+5 volt output)

Input Current

10 mA maximum

Output Impedance

1000 ohms

Maximum Load

5000 ohms

Zero and Span

see ordering information

Adjustment

Environmental

Enclosure NEMA 4, IP 65

Operating Temperature 0° to 200°F (-17° to 90°C)

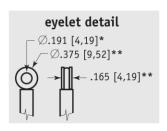
Vibration up to 10 g to 2000 Hz maximum

EMC Compliance Per Directive 89/336/EEC

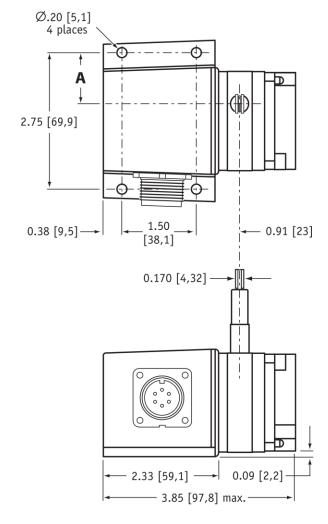
EN50081-2 / EN50082-2 **Emission/Immunity**

SENSOR SOLUTIONS /// PT1DC 12//2015 Page 1

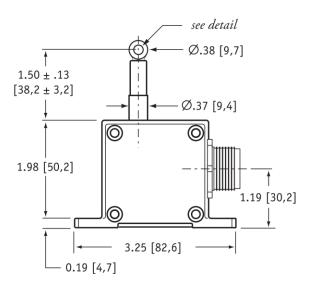
Outline Drawing



Range	Α				
2, 10	1.04 [26,4]				
5, 25, 50	0.58 [14,7]				
15, 30	0.82 [20,8]				
20, 40	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:



Sample Model Number:

PT1DC - 30 - UP - Z10 - MC4 - SG

R range:
A measuring cable exit:

30 inches up 0...10 VDC

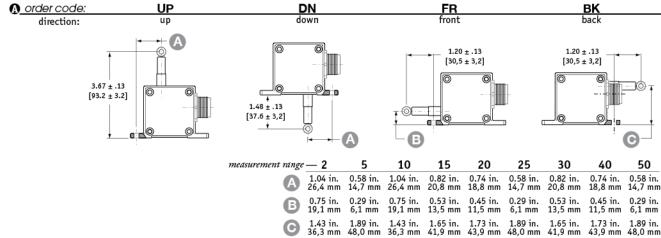
output signal:
electrical connection:
cable guide:

4-pin micro connector spring-loaded guide

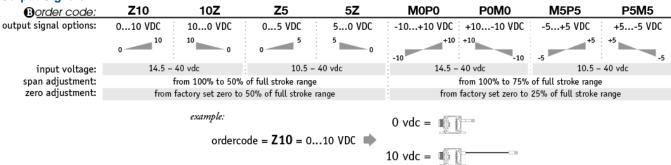
Full Stroke Range:

<u>Order code:</u>	2	5	10	15	20	25	30	40	50
full stroke range, min:	2 in.	5 in.	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.
accuracy (% of f.s.):	0.28%		0.18%				0.15%		
potentiometer cycle life:	2,500,00	0 cycles	500,000 cycles				250,000 cycles		
cable tension (20%):	12 oz.	5 oz.	12 oz.	9 oz.	6 oz.	5 oz.	9 oz.	6 oz.	5 oz.
max. cable acceleration:	11 g	3 g	11 g	5 g	4 g	3 g	5 g	4 g	3 g





Output Signals:



Electrical Connection:

