

Developed specifically to meet the needs of the auto racing industry and proven in industrial applications, our CLP series position transducers offer unrivalled performance in terms of accuracy, repeatability, life expectancy and ease of mounting.

The combination of individually corrected conductive plastic elements and precious metal wipers provide a cost effective measuring system which can operate effectively without being unduly influenced by external environmental conditions.

CLP Linear Potentiometer

Absolute Linear Position to 10 inches (250 mm)

2.5K - 10K ohms • High Cycle Applications

Factory Automation or Auto Sport Instrumentation

IP65 Protection

General

Full Stroke Ranges 0-1 to 0-10 in. (0-25 to 0-250 mm)

Output Signal voltage divider (potentiometer)

Linearity .1% to .2%, see ordering information

Repeatability 0.01 mm

Resolution essentially infinite

Life Expectancy > 25 million cycles

Operating Speed 400 inches (10 M) per second max.

Enclosure Material Aluminum

Sensor conductive plastic linear potentiometer

Weight see ordering information

Electrical

Input Resistance see order code

Recommended Maximum Input Voltage 42 VDC

Recommended Operating Wiper Current < 1μA

Environmental

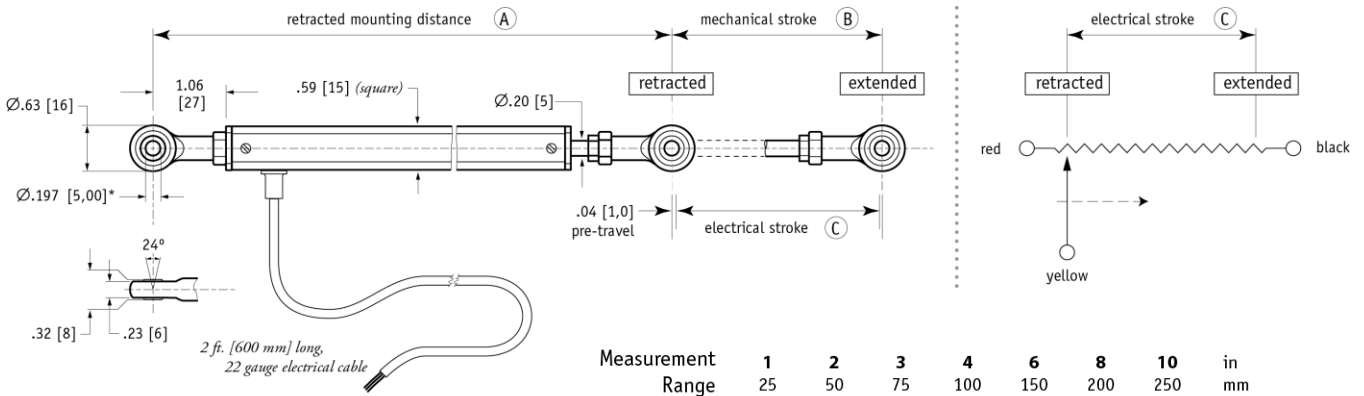
Enclosure Design IP65

Environmental Sealing O-ring and felt shaft seal

Operating Temperature -40° to 212°F

Vibration up to 10 g to 2000 Hz maximum

Outline Drawing



ALL DIMENSIONS ARE IN INCHES [MM]
 tolerances are 0.03 IN. [0.5 MM] unless otherwise noted
 *tolerance = +.002 -.000 [+0.05 -0.00]

Measurement Range	1	2	3	4	6	8	10	in mm
A	6.81 173	7.80 198	8.75 222	9.76 248	11.73 298	13.82 351	15.79 401	(± 0.1) in (± 2) mm
B	1.12 28.5	2.11 53.5	3.09 78.5	4.08 103.5	6.04 153.5	8.13 206.5	10.10 256.5	(± 0.02) in (± 0.5) mm
C	1.06 27.0	2.05 52.0	3.03 77.0	4.02 102.0	5.98 152.0	8.07 205.0	10.04 255.0	in mm

Ordering Information

Item Number	CLP-25	CLP-50	CLP-75	CLP-100	CLP-150	CLP-200	CLP-250
measurement range, in. [mm]:	1[25]	2[50]	3[75]	4[100]	6[150]	8[200]	10[250]
resistance, (±20%):	2.5K	5.0K	5.0K	5.0K	10K	10K	10K
linearity, %:	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%
weight, oz. [grams]:	3.0[87]	3.4[97]	3.8[108]	4.1[117]	4.8[138]	5.5[157]	6.2[177]

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