

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

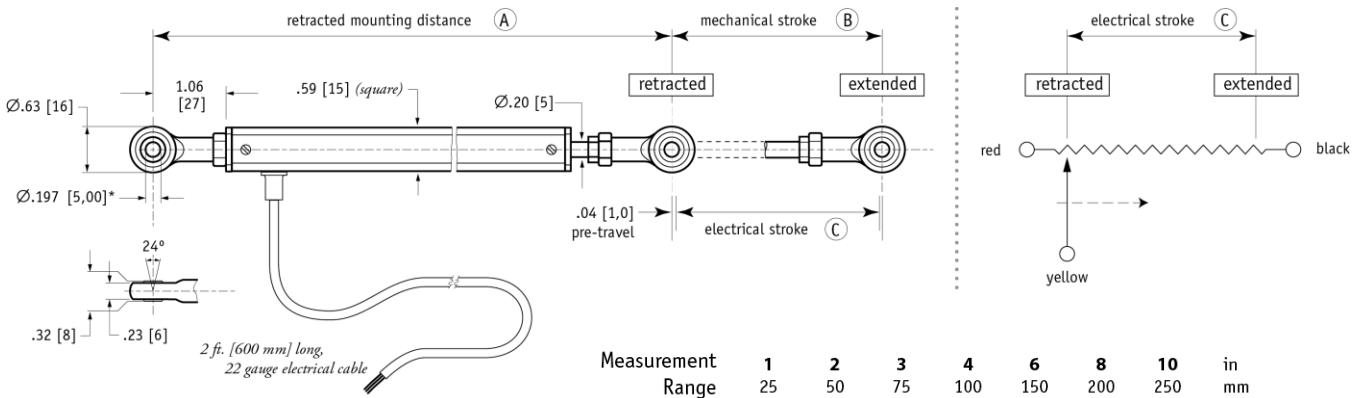
**Enclosure Design** IP65

**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
<b>A</b>	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>B</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
<b>C</b>	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]

**NORTH AMERICA**

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