

# Linear Conductive-Plastic Potentiometer

# CLP

- 1" to 10" [25 to 250 mm]
- IP65



## Specification Summary

### GENERAL

Full Stroke Ranges ..... 0-1 to 0-10 in. (0-25 to 0-250 mm)  
 Output Signal ..... voltage divider (potentiometer)  
 Linearity .....  $\pm 0.1$  to  $0.2\%$  full stroke, *see ordercode*  
 Repeatability ..... 0.01 mm  
 Resolution ..... essentially infinite  
 Life Expectancy ..... 10 million cycles (measured at 30 inches per second)  
 Enclosure Material ..... aluminum  
 Sensor ..... conductive plastic linear potentiometer  
 Weight ..... 3 - 6 oz. (87 - 177 g.), *see ordercode*

### ELECTRICAL

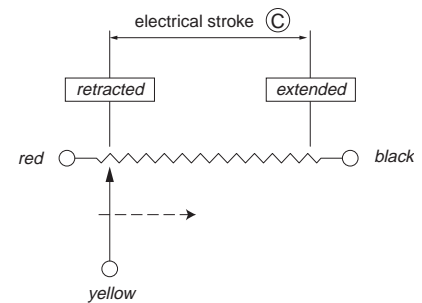
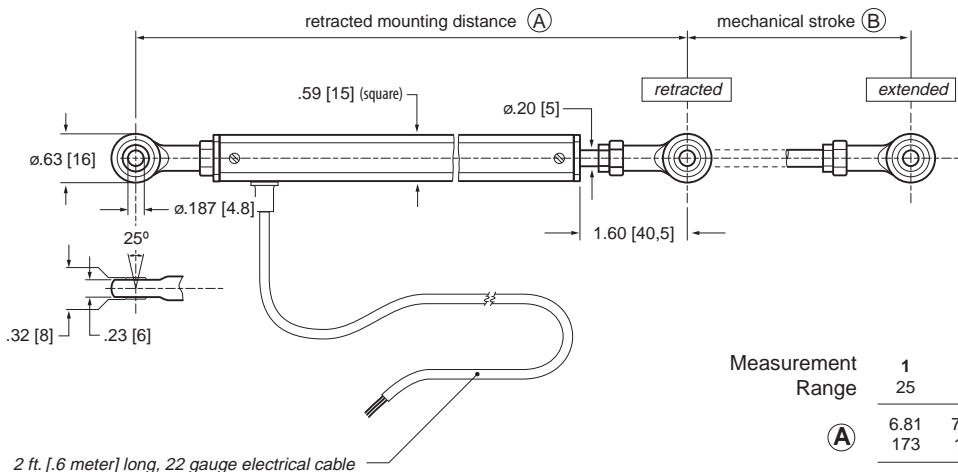
Input Resistance ..... 2.5K to 10K ohms ( $\pm 20\%$ ), *see ordercode*  
 Recommended Maximum Input Voltage ..... 25-30 V(AC or DC), *see ordercode*

### ENVIRONMENTAL

Enclosure Design ..... IP65  
 Operating Temperature .....  $-40^{\circ}$  to  $212^{\circ}$ F  
 Vibration ..... up to 10 G's to 2000 Hz maximum

Developed specifically to meet the needs of the auto racing industry and proven in industrial applications, Celesco's 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.



Measurement Range	1 25	2 50	3 75	4 100	6 150	8 200	10 250	in mm
<b>(A)</b>	6.81 173	7.80 198	8.75 223	9.76 248	11.73 296	13.82 351	15.79 401	$\pm 0.1$ in $\pm 2$ 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	$\pm 0.02$ in $\pm 0.5$ 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

All DIMENSIONS ARE IN INCHES (MM)

Latin Tech, Inc.  
[www.lt-automation.com](http://www.lt-automation.com) • [info@lt-automation.com](mailto:info@lt-automation.com)

Ordering Information

**Model Number:**

**CLP -** \_\_\_\_\_  
*order code:* \_\_\_\_\_ <sup>®</sup>

Sample Model Number:

**CLP - 50**

<sup>®</sup> range: 2 inches [50 mm]

**Full Stroke Range:**

<sup>®</sup> <i>order code:</i>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>150</b>	<b>200</b>	<b>250</b>
measurement range, in. (mm):	1 [25]	2 [50]	3 [75]	4 [100]	6 [150]	8 [200]	10 [250]
resistance, $\Omega$ ( $\pm 20\%$ ):	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]	5.49 [157]	6.19 [177]