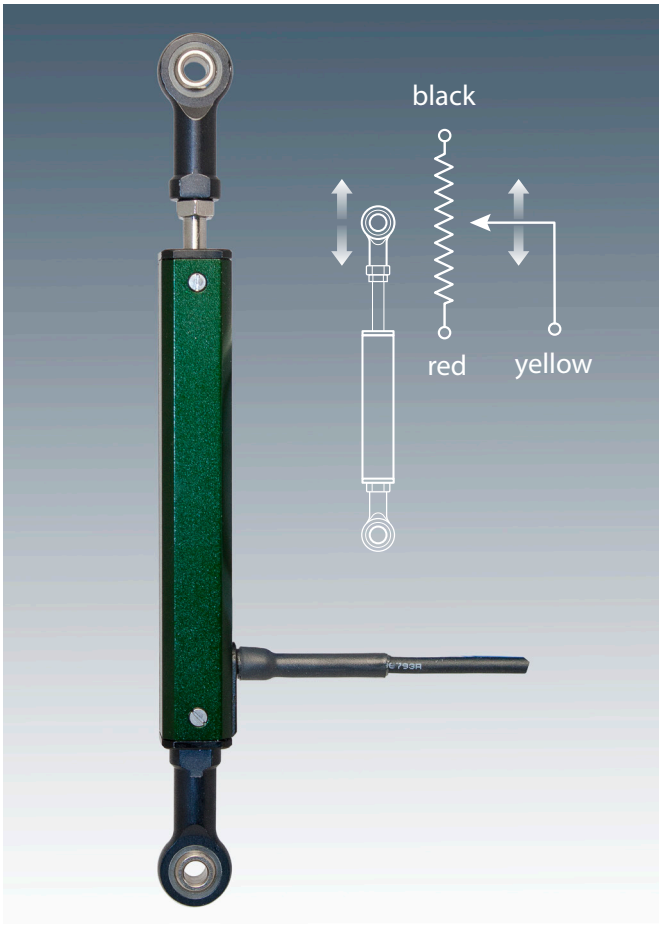
CLP

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	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 ordercode
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

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.

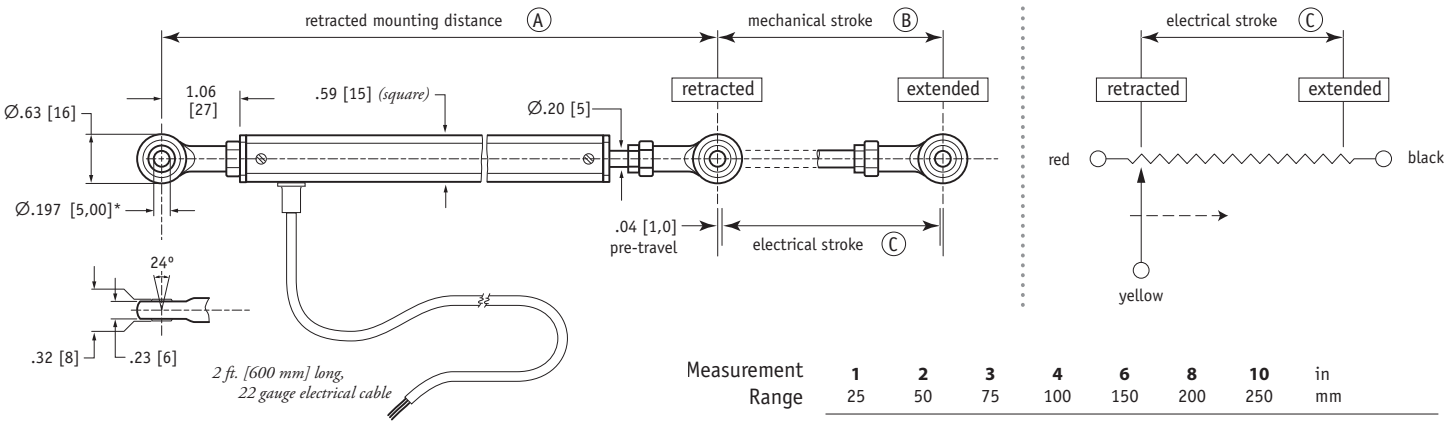
Ordering Information:

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]

20630 Plummer Street • Chatsworth, CA 91311 • Meas-Spec.com
tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

formally Celesco Transducer Products, Inc.

Outline Drawing:



Measurement Range	**1** 25	**2** 50	**3** 75	**4** 100	**6** 150	**8** 200	**10** 250	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

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

*tolerance = +.002 –.000 [+0,05 -0,00]

version: **6.0** last updated: **April 22, 2014**