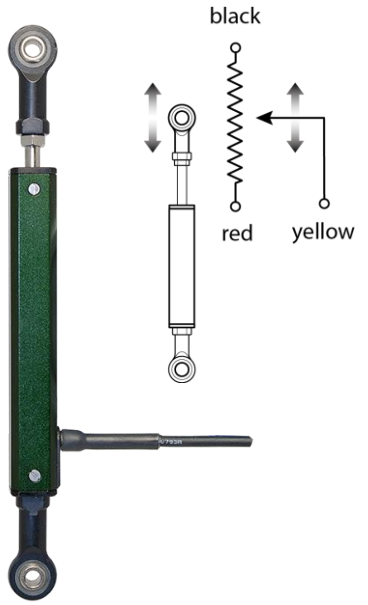


CLP

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

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.

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

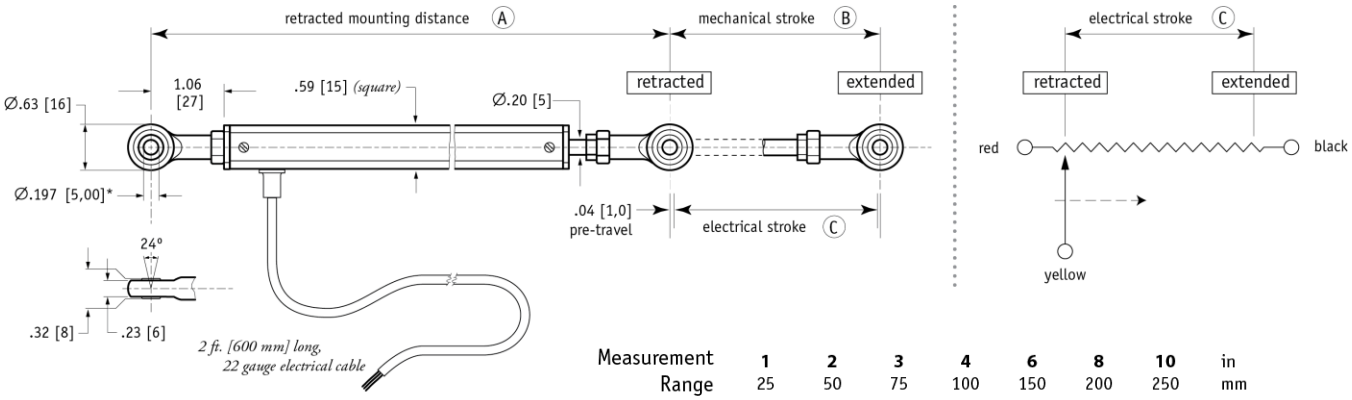
Electrical

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	
	25	50	75	100	150	200	250	in
								mm
A	6.81	7.80	8.75	9.76	11.73	13.82	15.79	(± 0.1) in
	173	198	222	248	298	351	401	(± 2) mm
B	1.12	2.11	3.09	4.08	6.04	8.13	10.10	(± 0.02) in
	28.5	53.5	78.5	103.5	153.5	206.5	256.5	(± 0.5) mm
C	1.06	2.05	3.03	4.02	5.98	8.07	10.04	in
	27.0	52.0	77.0	102.0	152.0	205.0	255.0	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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CLP 12/01/2015

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