

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

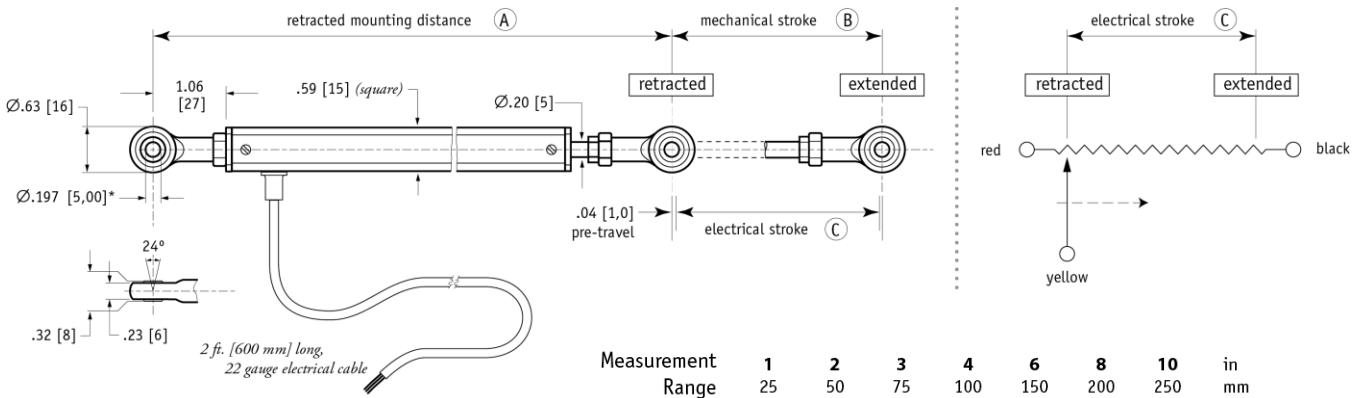
Enclosure Design IP65

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]

NORTH AMERICA

Measurement Specialties, Inc.,
 a TE Connectivity company
 Tel: 800-522-6752
 Email: customer-care.chtw@te.com

TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.
 Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.
 The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.
 © 2015 TE Connectivity Ltd. family of companies All Rights Reserved.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[CLP-150](#)