



Developed specifically for a wide range of demanding applications, our CL series position transducers offer unrivalled performance in terms of accuracy, repeatability, life expectancy and ease of mounting. Such applications include industrial automation, automotive and robotics.

The CLWG uses a twin-bearing actuating rod, backlash-free pivot heads and a superior wiper system to provide outstanding linearity and performance.

CLWG

Linear Potentiometer

Absolute Linear Position to 30 inches (750 mm)

3K - 10K ohms • High Cycle Applications
Industrial Automation, Test and Robotics Applications
IP65 Protection • M12 Connector

General

Full Stroke Ranges 0-3 to 0-30 in. (0-75 to 0-750 mm)

Output Signal voltage divider (potentiometer)

Linearity .04% to .1%, see ordering information

Repeatability < 0.01 mm

Resolution essentially infinite

Life Expectancy 50 million cycles

Enclosure Material aluminum

Sensor conductive plastic linear potentiometer

Operating Speed 200 inches (5 M) per second, max.

Electrical

Input Resistance 5K to 10K ohms (±20%), see order code

Recommended Maximum 25-30 V(AC or DC)

Input Voltage

Recommended Operating ≤ 1 µA

Wiper Current

Environmental

Enclosure Design IP65

Operating Temperature -22° to 212°F

Vibration up to 10 g to 2000 Hz maximum

Ordering Information

Model Number:



Sample Model Number:

CLWG - 75 - NC4

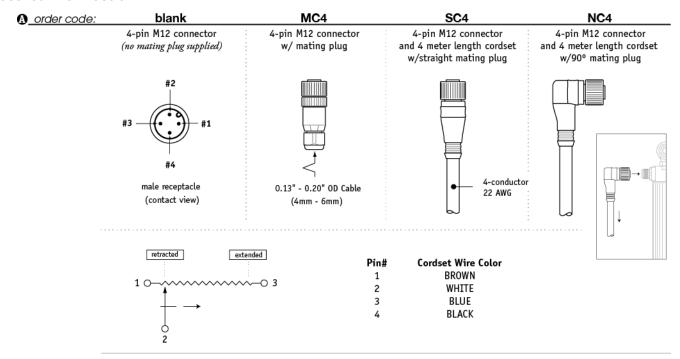
range: 3 inches [75 mm]

electrical connection: 4-pin, 90° M12 cordset

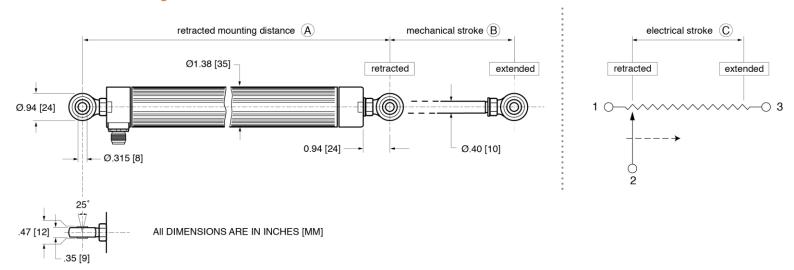
Full Stroke Range:

Order code:	75	100	150	225	300	360	450	500	600	750
measurement range, in. [mm]:	3[75]	4[100]	6[150]	9[225]	12[300]	14[360]	18[450]	20[500]	24[600]	30[750]
resistance, (±20%):	3K	3K	5K	5K	5K	5K	5K	5K	5K	10K
linearity, %:	0.1%	0.1%	0.08%	0.07%	0.06%	0.05%	0.05%	0.05%	0.05%	0.04%

Electrical Connection:



Outline Drawing



Measurement	3	4	6	9	12	14	18	20	24	30 in 750 mm
Range	75	100	150	225	300	360	450	500	600	
A	9.72	10.75	12.72	15.75	18.74	21.69	26.18	28.74	33.70	40.94 in
	247	273	323	400	476	551	665	730	856	1040 mm
B	3.11	4.13	6.10	9.09	12.09	14.49	18.11	20.08	24.09	30.07 ± 0.02 in
	79	105	155	231	307	368	460	510	612	764 ± 2 mm
©	2.99	4.01	5.98	8.98	11.97	14.41	17.99	20.00	24.02	30.00 in
	76	102	152	228	304	366	457	508	610	762 mm

NORTH AMERICA

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

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CLWG 12/01/2015

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