

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 ($\pm 20\%$), see order code
Recommended Maximum Input Voltage	25-30 V(AC or DC)
Recommended Operating Wiper Current	$\leq 1 \mu A$

Environmental

Enclosure Design	IP65
Operating Temperature	-22° to 212°F
Vibration	up to 10 g to 2000 Hz maximum

Ordering Information

Model Number:

CLWG - _____ - _____
 order code: **R** **A**

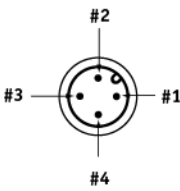



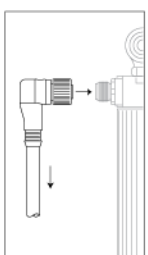
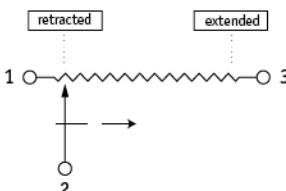
Sample Model Number:

CLWG - 75 - NC4**R** range: 3 inches [75 mm]**A** electrical connection: 4-pin, 90° M12 cordset

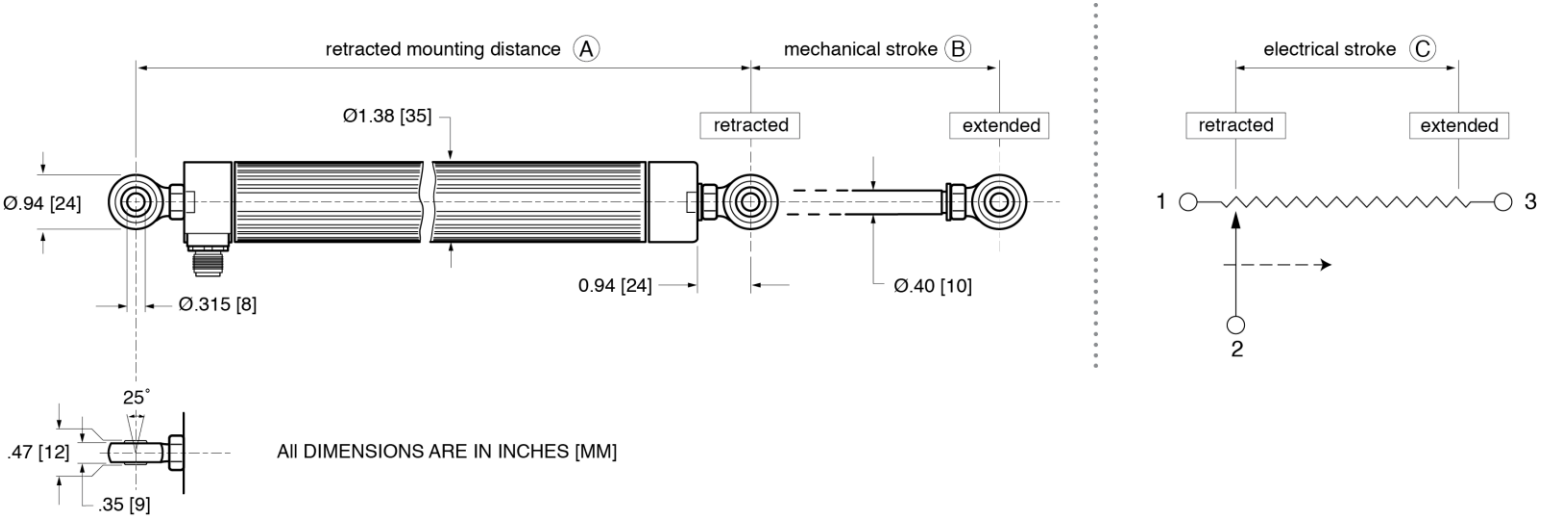
Full Stroke Range:

R 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, ($\pm 20\%$):	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:

A order code:	blank	MC4	SC4	NC4
	4-pin M12 connector (no mating plug supplied)	4-pin M12 connector w/ mating plug	4-pin M12 connector and 4 meter length cordset w/straight mating plug	4-pin M12 connector and 4 meter length cordset w/90° mating plug
	 <p>male receptacle (contact view)</p>	 <p>0.13" - 0.20" OD Cable (4mm - 6mm)</p>	 <p>4-conductor 22 AWG</p>	 
				
			Pin# 1 2 3 4	Cordset Wire Color BROWN WHITE BLUE BLACK

Outline Drawing



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

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