

LINEAR POT 9.5mm diameter



The output of a linear potentiometer is a voltage which changes in direct proportion to the shaft extension. A constant voltage is required across the supply and ground wires of the sensor. The sensing elements are made from conductive plastic with a precious metal wiper. The units are sealed to keep out dirt and dust.

Electrical	Mechanical
 Electrical stroke range as specified in the table below Nominal resistance temp. coeff. 10ppm/°C Wiper current <10µA (recommended) Independent non-linearity ±0.5%FS 	 Aluminium alloy body, anodised and dyed black Stainless steel shaft Life expectancy >25 million cycles (wiper speed 10m/s max) Mechanical stroke = electrical stroke
Cable and Connection Definition	
	Environmental
 24AWG 55M spec un-screened cable 	
Connection	IP67 sealed
Red wire Supply	 Resistant to standard motorsport fluids
Black wire Ground	Maximum humidity 100%
White wire Signal	• Operating temperature -30 to +150°C continuous,
• Various automotive and military standard connectors	175°C short term
are available	Viton jacketed cable
 Cable length is shown on the order details but any length is available upon request 	• Vibration 50 to 2500Hz @ 40g 8hrs per axis

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Electrical stroke (mm)	12.5	25.0	50.0	75.0	100.0	125.0	150.0
Body length (mm)	62.5	75	100	125	153	178	203
Resistance (kΩ±20%)	1.25	2.5	5.0	7.5	6.5	8.0	10.0
Retracted mounting distance (mm)	82.5	95	120	145	178	203	228
Weight (grams)	24	26	29	33	37	43	46

Cable Length	Electrical Stroke	Order Code
500mm	12.5mm	O 030 320 013 000
500mm	25mm	O 030 320 013 001
500mm	50mm	O 030 320 013 002
500mm	75mm	O 030 320 013 003
500mm	100mm	O 030 320 013 004
500mm	125mm	O 030 320 013 005
500mm	150mm	O 030 320 013 006

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