

CLS1323

Linear Potentiometer

These high performance, high temperature linear potentiometers are designed for the most demanding control and measurement applications.

They are constructed from aluminum alloy and stainless steel for high strength and durability, yet are lightweight in design, making them ideal for motor racing, automotive, and general industrial applications.

The sensors are sealed to IP66 as standard and feature fire and chemical resistant high temperature Raychem FDR-type55-24 signal cabling ensuring total system reliability. The physical design of these slim body linear potentiometers enables their survival in the severest of environmental conditions.

Other models in this range

- CLS0950 - Ultra slim and compact
- CLS1310 - Robust ultra compact
- CLS1321 - Body clamp mounting
- CLS1322 - Rod end mounting
- CLS1324 - Extended shaft model (+25mm)
- CLS1325 - Extended shaft model (+50mm)
- CLS1326 - Threaded both ends of shaft
- CLS1328 - Extended shaft model (+41.5mm)
- CLS1920 - Robust medium stroke
- CLS3220 - Industrial long stroke

Higher temperature models also available
(Please contact technical sales)



Accessory Part Numbers

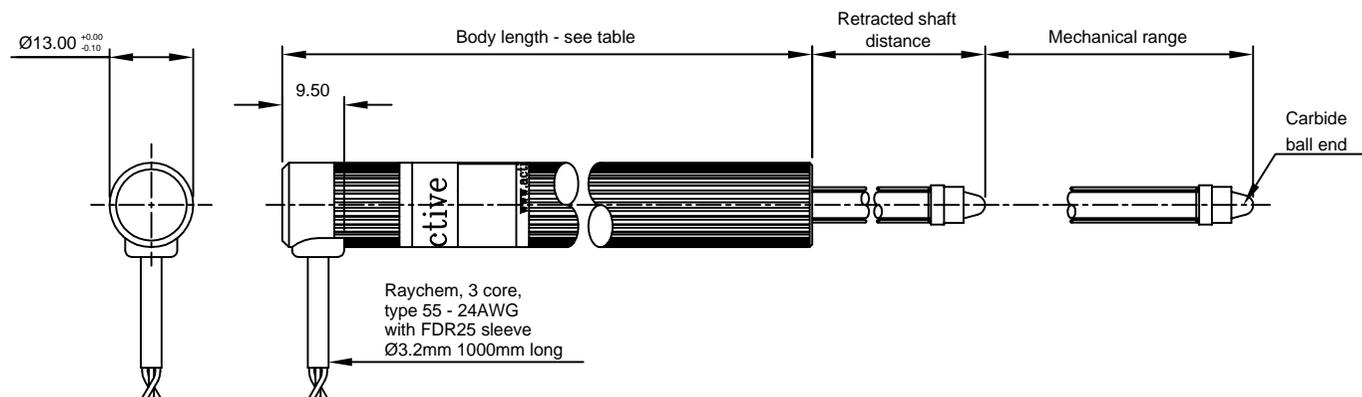
Mounting flange - PT1300-0109

Body Clamps - PT1300-0110

See products page for data sheets.

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Not to Scale
Dims: mm



Measurement range ($\pm 0.5\text{mm}$)	75	100	150	mm
Body Length	131	156	206	mm
Retracted shaft distance	53.5	58.5	88.5	mm
Resistance (Typical)	3	4	6	kohms
Non-linearity	$\leq \pm 0.15$			%
Applied voltage	<math>< 65</math>	<math>< 90</math>	<math>< 130</math>	Volts
Wiper load	>500	>500	>600	kohms
Mechanical range	Measurement range +1			mm
Shaft velocity	<math>< 10</math>			m/sec
Insulation resistance (at 500V dc.)	>100			Mohms
Operating temp. range	-30° to $+125^\circ$			$^\circ\text{C}$
Sealing	IP50			
Shaft operating force	150 - 350 (typical)			grams
Weight. (approx.)	73	78	90	grams
Case material	Aluminum 6063 - T5			
Shaft material	Stainless Steel 303 h7 12cla			

Note 1: Incorrect wiring may cause internal damage to the sensor. Note 2: Circuit recommendation; Due to the presence of a high contact resistance, these potentiometers should be used as voltage dividers only. Operation with wiper circuits of low impedance will degrade the output signal.

