

# CLS0951

## Linear Potentiometer

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

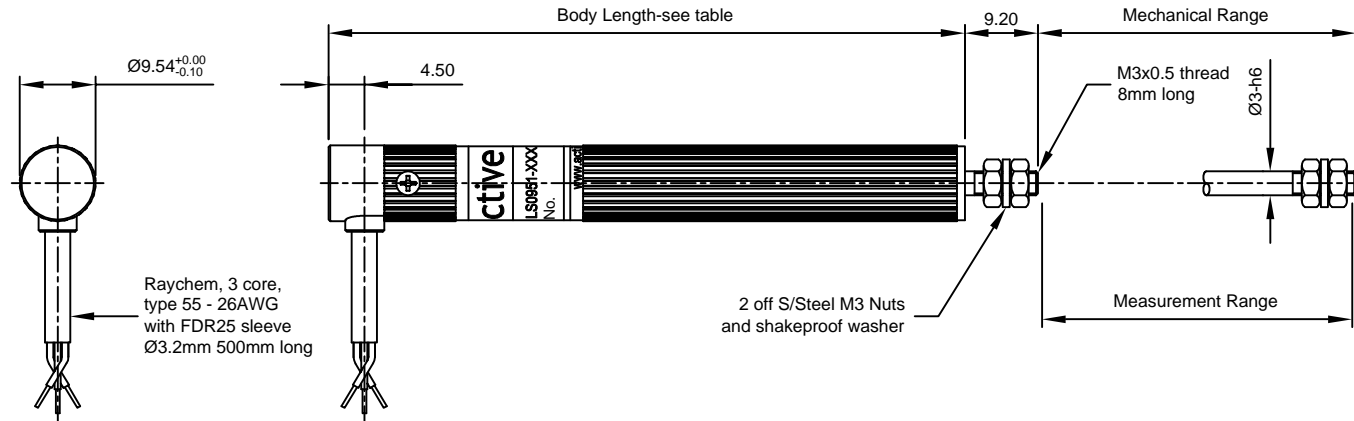
They are constructed from aluminum alloy and stainless steel for high strength and durability, yet are lightweight in design, making them ideal for motor racing, automotive and general industrial applications.

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

- CLS0952 - Rod end mounting
- CLS0953 - Body Clamp mounting/sprung shaft
- CLS0956 - M3 threaded mounting
- CLS0957 - Body clamp mounting/rear cable exit
- CLS1312 - Rod end mounting
- CLS1313 - Spring loaded shaft
- CLS1322 - Rod end mounting
- CLS1323 - Spring loaded shaft
- CLS1922 - Rod end mounting
- CLS1924 - Extended shaft model (+25mm)
- CLS1925 - Extended shaft model (+50mm)
- CLS3220 - Industrial long stroke

**Higher temperature models also available**  
(Please contact technical sales)



### Electrical & Mechanical Information

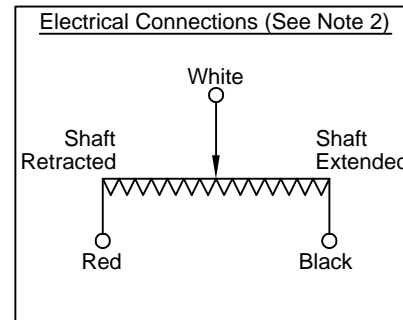
Measurement Range	( $\pm 0.5\text{mm}$ )	10	20	30	40	50	75	100	125	150	mm
Body Length		55	60	70	80	90	115	140	165	190	mm
Resistance	(Typical)	0.4	0.8	1.2	1.6	2	3	4	5	6	Kohms
Non-Linearity		< $\pm 0.25$	< $\pm 0.25$	< $\pm 0.25$	< $\pm 0.25$	< $\pm 0.25$	< $\pm 0.15$	< $\pm 0.15$	< $\pm 0.15$	< $\pm 0.15$	%
Applied Voltage		<15	<22	<30	<37	<45	<65	<90	<112	<135	Volts
Wiper Load		>500	>500	>500	>500	>500	>500	>500	>500	>500	Kohms
Mechanical Range		Measurement Range +1									mm
Shaft Velocity		<10									m/sec
Insulation Resistance (at 500V dc.)		>100									Mohms
Operating Temperature Range		-30° to +125°									°C
Sealing		IP66									
Shaft Operating Force		200 (typical)									grams
Weight. (approx.)		60	66	72	78	85	90	96	102	108	grams

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.

### Accessory Part Numbers

Body Clamps - PT0950-0109

See products page for data sheet



### Ordering Information

CLS0951-XXX

Measurement range in mm