

# CLS1311

## Linear Potentiometer

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

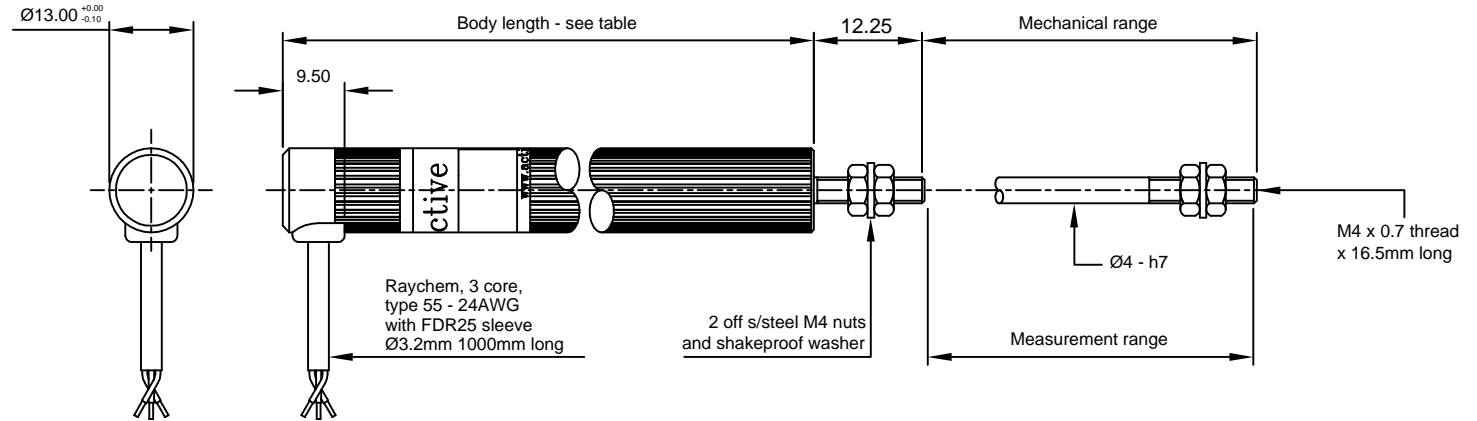
They are constructed from aluminum alloy and stainless steel for high strength and durability, yet are lightweight in design, making them ideal for motor racing, automotive and general industrial applications.

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
- CLS1312 - Rod end mounting
- CLS1313 - Spring loaded shaft
- CLS1321 - Body clamp mounting
- CLS1322 - Rod end mounting
- CLS1323 - Spring loaded shaft
- 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)



Not to Scale  
Dims: mm

### Electrical & Mechanical Information

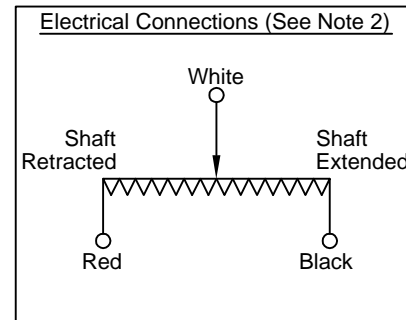
Measurement range ( $\pm 0.5\text{mm}$ )	25	30	50	75	mm
Body length	68	73	93	118	mm
Resistance (Typical)	1	1.2	2	3	kohms
Non-linearity	$< \pm 0.25$				%
Applied voltage	$< 22$	$< 27$	$< 45$	$< 67$	Volts
Wiper load	$> 500$				kohms
Mechanical range	Measurement range +1				mm
Shaft velocity	$< 10$				m/sec
Insulation resistance (at 500V dc.)	$> 100$				Mohms
Operating temp. range	$-30^{\circ}$ to $+125^{\circ}$				$^{\circ}\text{C}$
Sealing	IP66				
Shaft operating force	200 (typical)				grams
Weight. (approx.)	60	61	66	72	grams

Note 1: Incorrect wiring may cause intrenal 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

- Mounting flange - PT1300-0109
- Body Clamps - PT1300-0110
- Quick release ball joints - JN029-001

See products page for data sheets.



### Ordering Information

CLS1311-XXX

Measurement range in mm