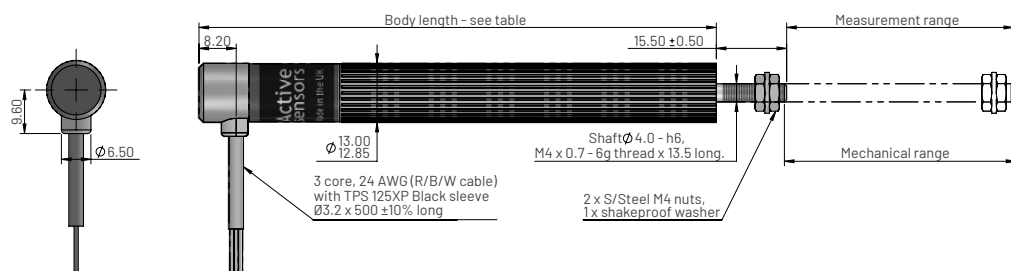


MLS1321-1 High Performance Linear Potentiometers

Body clamp mounting, Robust 13mm body diameter, 25mm to 350mm measurement range

Active
sensors



Ordering information

MLS1321-1-XXX

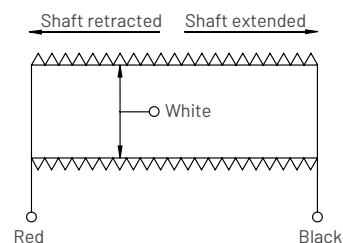
Measurement range in mm

Parameters	Values												Units
Measurement range ($\pm 0.5\text{mm}$)	025	050	075	100	125	150	175	200	225	250	300	350	mm
Body length	89	114	139	164	189	214	239	264	289	314	364	414	mm
Resistance (typical)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	Kohms
Non-linearity	$< \pm 0.25$			$< \pm 0.15$									%FS
Applied voltage	< 22	< 45	< 65	< 90	< 110	< 130							Vdc
Wiper load	> 500										> 600	> 700	Kohms
Mechanical range ($\pm 0.5\text{mm}$)	Measurement Range $+2$												mm
Shaft velocity	< 10												m/s
Insulation resistance (at 500V DC.)	> 100												Mohms
Operating temperature range	-30 to $+125$												$^{\circ}\text{C}$
Sealing	IP66												
Shaft operation force (typical)	200												grams
Weight (approx.)	50	56	63	68	75	80	86	92	98	104	110	116	grams
Materials	Case: Anodised aluminium 6063 T5, Shaft: Stainless steel 303												

Notes

1. MLS sensors should be used as voltage dividers only.
2. Incorrect wiring may cause internal damage to the sensor.
3. General dimension tolerance is $\pm 0.25\text{mm}$.

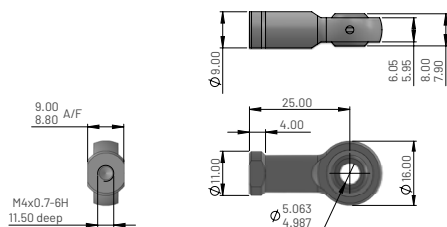
Electrical connections (see note 1, 2)



■ Accessories

■ 5mm rod end

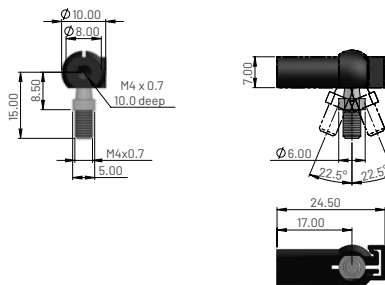
PT1322-0104-19



Material	
Housing	Aluminium alloy, anodised black
Ball	Steel BS970 230M07, electroless nickel plated
Race	Gr nylon
Temperature rating: -35°C to +170°C	

- **Quick release ball joints**

JN029-003



Material	
Body	PA66, black
Ball stud	Hardened carbon
Steel	Zinc plated, clear passivate
Temperature rating: -40°C to +80°C	