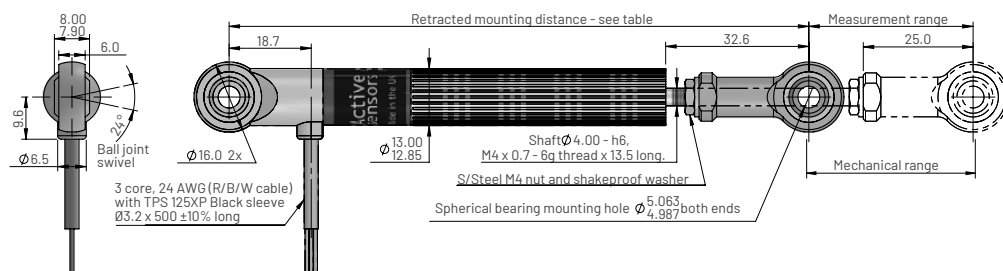


MLS1322-1 High Performance Linear Potentiometers

5mm rod-end mounting, Robust 13mm body diameter, 25mm to 350mm measurement range

Active
sensors



Ordering information

MLS1322-1-XXX

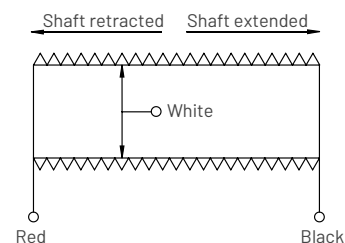
Measurement range in mm

Parameters	Values												Units
Measurement range (± 0.5 mm)	025	050	075	100	125	150	175	200	225	250	300	350	mm
Retracted mounting distance	132	157	182	207	232	257	282	307	332	357	407	457	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 (± 0.5 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.)	60	66	73	78	85	90	96	102	108	114	120	126	grams
Materials	Case: Anodised aluminium 6063 T5, Shaft: Stainless steel 303												

Notes

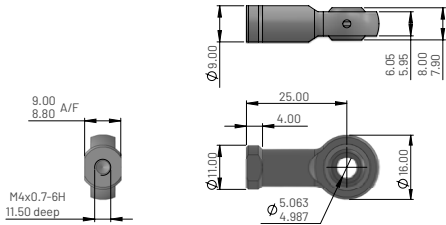
1. MLS sensors should be used as voltage dividers only.
2. Incorrect wiring may cause internal damage to the sensor.
3. General dimension tolerance is ± 0.25 mm.

Electrical connections (see note 1, 2)



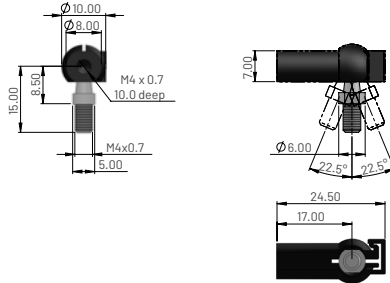
■ Accessories

■ 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	