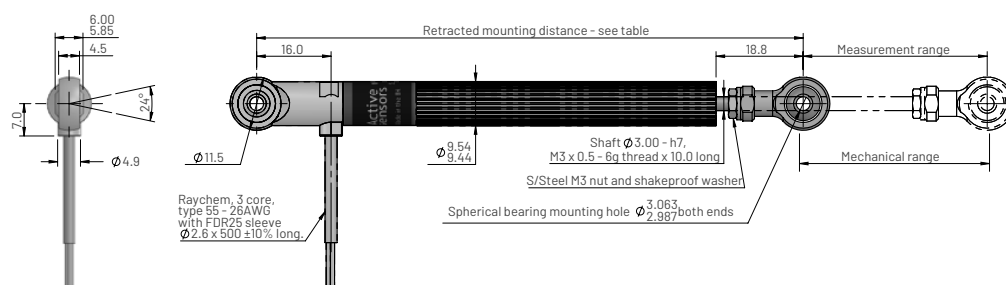


MLS0952-1 High Performance Linear Potentiometers

3mm rod-end mounting, Slim 9.5mm body diameter, 10mm to 150mm measurement range

Active
sensors



Ordering information

MLS0952-1-XXX

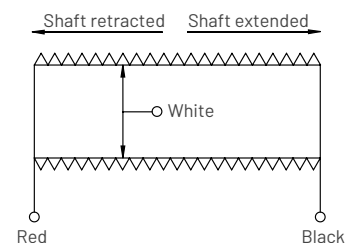
Measurement range in mm

Parameters	Values										Units
Measurement range (± 0.5 mm)	10	20	30	40	50	75	100	125	150		mm
Retracted mounting distance	88	98	108	118	128	153	178	203	228		mm
Resistance (typical)	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0		Kohms
Non-linearity	$< \pm 0.25$					$< \pm 0.15$					% FS
Applied voltage	< 9	< 18	< 27	< 36	< 44	< 66	< 88	< 110	< 132		VDC
Wiper load	> 500										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.)	23.5	25.0	26.5	28.0	30.0	34.0	38.0	42.0	46.0		grams
Materials	Case - Anodised aluminium 6060 T6, 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.

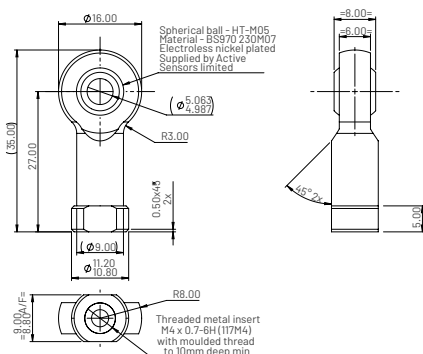
Electrical connections (see note 2)



Accessories

3mm rod end

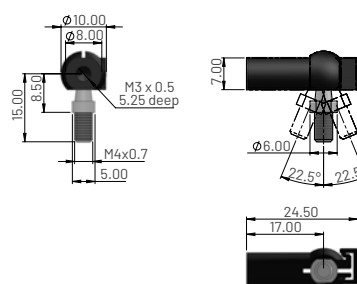
PT0952-0104-19



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

SA0950-4104



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