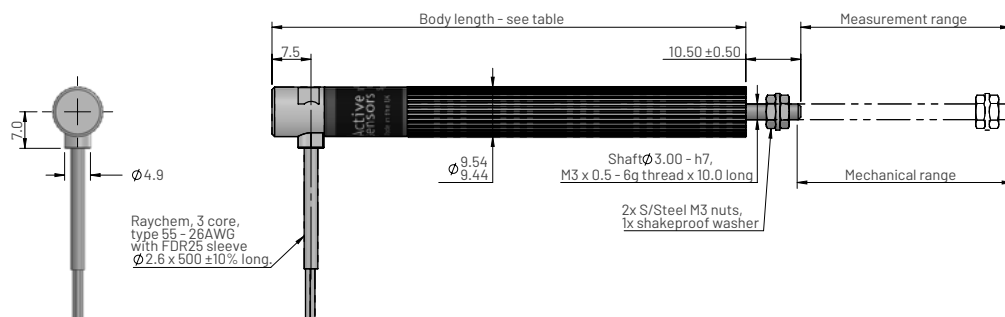


MLS0951-1 High Performance Linear Potentiometers

Body clamp mounting, Slim 9.5mm body diameter, 10mm to 150mm measurement range

Active
sensors



Ordering information

MLS0951-1-XXX

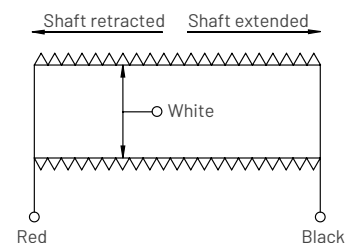
Measurement range in mm

Parameters	Values										Units
Measurement range ($\pm 0.5\text{mm}$)	10	20	30	40	50	75	100	125	150		mm
Body length	60.5	70.5	80.5	90.5	100.5	125.5	150.5	175.5	200.5		mm
Resistance (typical)	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0		Kohms
Non-linearity	$\leq \pm 0.25$					$\leq \pm 0.15$					% FS
Applied voltage	<9	<18	<27	<36	<44	<66	<88	<110	<132		VDC
Wiper load	>500										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										°C
Sealing	IP66										
Shaft operation force (typical)	200										grams
Weight (approx.)	19.0	20.0	22.0	24.0	26.0	30.0	34.0	38.0	42.0		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 $\pm 0.25\text{mm}$.

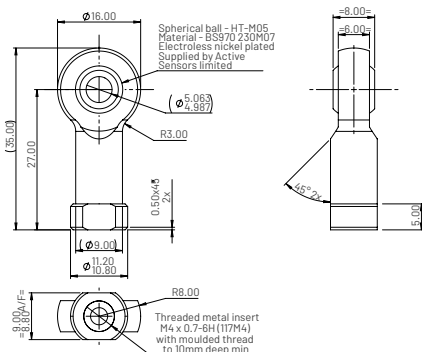
Electrical connections (see note 2)



Accessories

3mm rod end

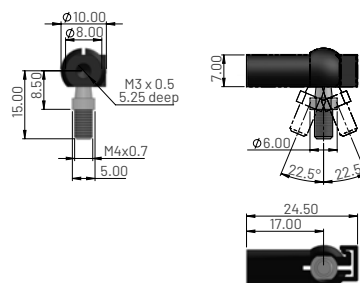
PT0952-0104-19



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	