

LSC Series - Linear Motion Potentiometer

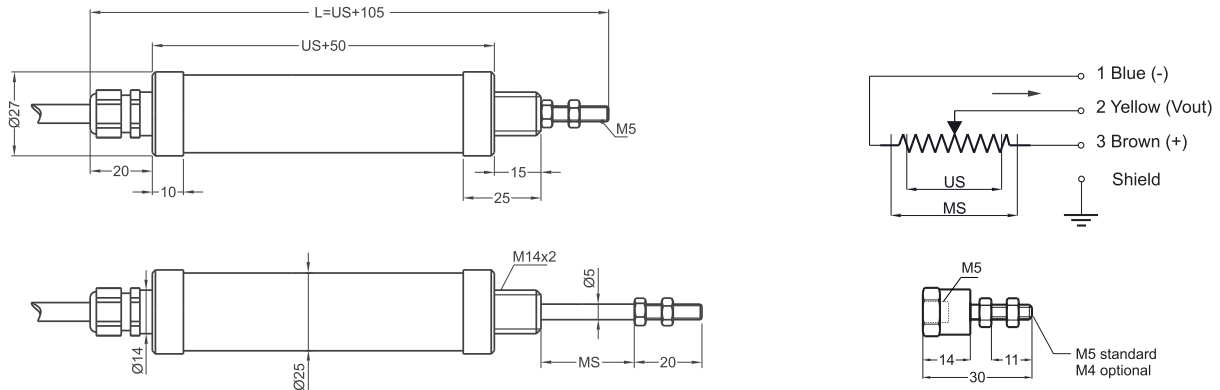
- Measuring range 25 - 400 mm
- Long mechanical life 100 million movements
- Excellent repeatability <0.01 mm



Technical specifications

Measurement stroke	25 to 400 mm
Linearity	±0.5% (≤75mm), ±0.2% (100 to 125mm), ±0.1% (130 to 225mm), ±0.05% (≥250mm)
Repeatability	< 0,01 mm
Resolution	Infinite
Resistance	2 kOhm : 25 ... 50 mm 5 kOhm : 75 ... 400 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	1 m cable (standard)
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	Ø25 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Dimensions (mm) / Wiring



LSC (mm)	25	50	75	100	125	150	175	200	250	300	350	400
US (Useful stroke)	25	50	75	100	125	150	175	200	250	300	350	400
MS (Mechanical stroke)	28	53	78	103	128	153	178	203	253	303	353	403
L (Total length)	130	155	180	205	230	255	280	305	355	405	455	505

Ordering Code

Example: **LSC 175 C 5K 1M** (175mm stroke length, 0.1% linearity, 5K ohms, 1 meter output cable)

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Cable
LSC	175	C	5K	1M
LSC	25 - 400 mm	A : ±%0.5 (≤75 mm) B : ±%0.2 (100-125 mm) C : ±%0.1 (130-225 mm) D : ±%0.05 (≥200 mm)	2 kOhm : 25 - 50 mm 5 kOhm : 75 - 400 mm	1M : 1 meter cable (standard) 1M5 : 1,5 meter cable 2M5 : 2,5 meter cable