

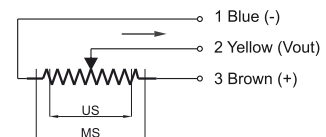
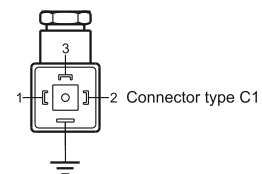
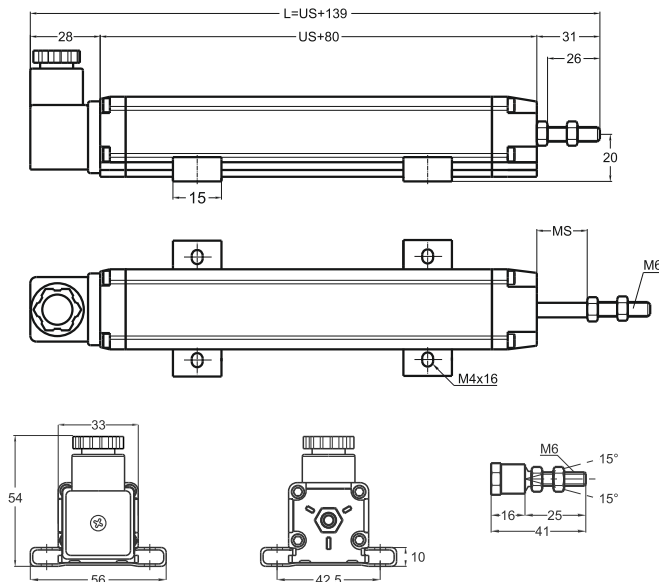
Linear Potentiometer

- Measuring range 30 - 1000 mm
- Long mechanical life 100 million movements
- Excellent repeatability <0.01 mm
- Infinite resolution
- 5 kOhm : 30 ... 600 mm
- 10 kOhm : 650 ... 1000 mm



Technical specifications

Measurement stroke	30 to 1000 mm
Linearity	$\pm 0,05$ (>200 mm), $\pm 0,1$ (130 - 200 mm), $\pm 0,2$ (75 - 130 mm), $\pm 0,5$ (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	5 kOhm : 30 ... 600 mm 10 kOhm : 650 ... 1000 mm
Resistance tolerance	± 20
Load resistance	100 kOhm min.
Recommended cursor current	<1 μ A
Permissible applied voltage	28 VDC max.
Electrical connections	4 pin connector
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	$\varnothing 6$ mm
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



RTL (mm)	30	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000
US (Usefull Stroke)	30	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000
MS $\pm 0,5$ (Mechanical Stroke)	33	53	73	103	128	133	153	178	203	228	253	278	303	328	353	373	403	453	503	553	603	653	703	753	803	853	903	1003
L (Total Length)	169	189	214	239	264	269	289	314	339	364	389	414	439	464	489	514	539	589	639	689	739	789	839	889	939	989	1039	1139

Model	Measurement stroke (mm)	Linearity (%)	Resistance (KOhm)	Connector / Cable
(example) RTL	500	D	5K	C1
RTL	30 ... 1000 mm	D: $\pm 0,05$ (>200 mm), $\pm 0,1$ (130 - 200 mm), $\pm 0,2$ (75 - 130 mm), $\pm 0,5$ (<75 mm)	5K: 5 kOhm 10K: 10 kOhm	C1: 4 pin connector