

ELPH Series

Linear Motion Potentiometer

- Internal electronic circuit
- Measuring range 100 - 1750mm
- Output 4-20mA, 0-20mA or 0-10V
- Very low temperature drift
- Very stable output signal
- Excellent repeatability <0.01mm



Electrical Specifications*

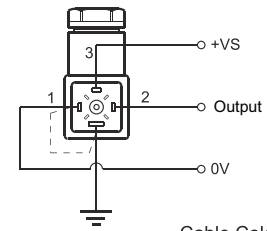
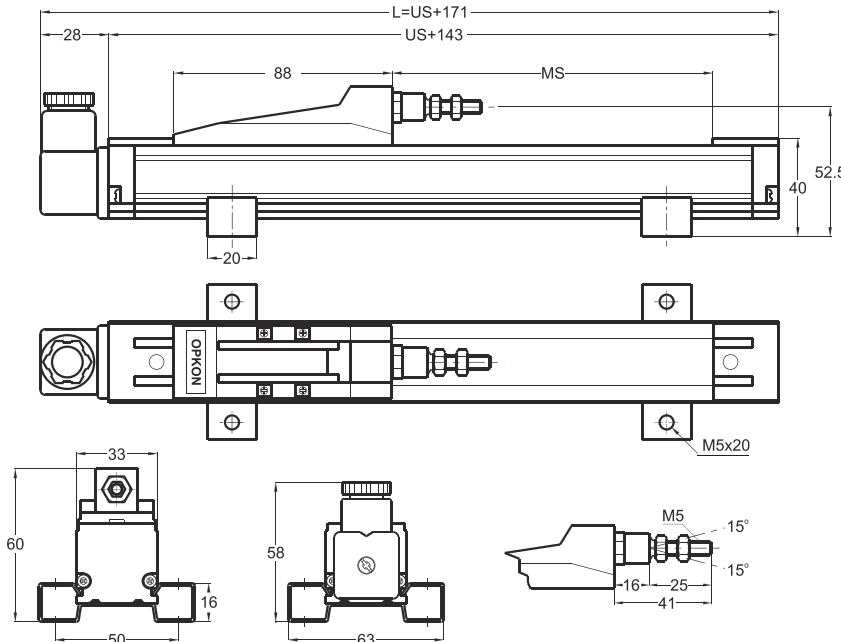
Linearity	$\pm 0.2\%$ (100-130mm), $\pm 0.1\%$ (130-200mm) $\pm 0.05\%$ (>200mm)
Resolution	Infinite
Output	4-20mA or 0-20mA (current output) 0-10VDC (voltage output)
Load resistance	100-500 Ω (current output) 10K Ω (voltage output)
Update rate	<1ms
Supply voltage	15-30VDC
Power consumption	27.5mA (current output) 7.5mA (voltage output)
Temperature coefficient	15 ppm/ $^{\circ}$ C
Insulation resistance	>100M Ω @ 500VDC

Mechanical Specifications*

Measurement stroke	100 - 1750mm (see table below)
Repeatability	<0.01mm
Electrical connections	4 pin connector
Displacement speed	<1.5 m/s
Mechanical life	75 million cycles
Case dimensions	33mm x 33mm
Case material	Anodized aluminum
Rod material	Shaftless - sliding cursor
Pivot Linkage	Link ball
Mechanical fixing	Variable brackets
IP degree	IP40 / if mounted upside down IP53
Operating temperature	-20 $^{\circ}$ C to +80 $^{\circ}$ C
Storage temperature	-30 $^{\circ}$ C to +90 $^{\circ}$ C
Vibration	5~2000Hz, Amax = 0.75mm, amax = 20G
Shock	50 G, 6ms

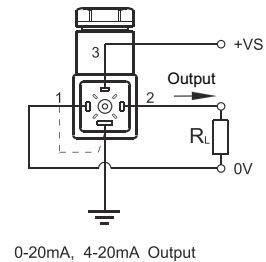
* Customers should test and verify part performance in any given application. Specifications subject to change without notice.

Dimensions (mm)



Cable Colors

- [1] Blue : 0V
- [2] Yellow : Output
- [3] Brown : +VS
- [4] Black : GND



LPH (mm)	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	1250	1500	1750
US (Usefull Stroke)	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	1250	1500	1750
MS (Mechanical Stroke)	104	129	134	154	179	204	229	254	279	304	329	354	379	404	454	504	554	604	654	704	754	804	854	904	1004	1254	1504	1754
L (Total Length)	271	296	301	321	346	371	396	421	446	471	496	521	546	571	621	671	721	771	821	871	921	971	1021	1071	1171	1421	1671	1921

Special Specifications Available

Improved linearity, special stroke lengths, shaft modifications.