


ERPH

Linear Potentiometer / Internal Voltage / Current Conditioner Circuit

FEATURES

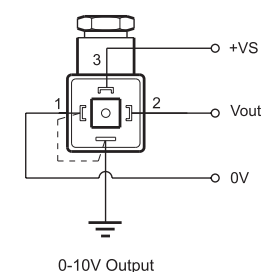
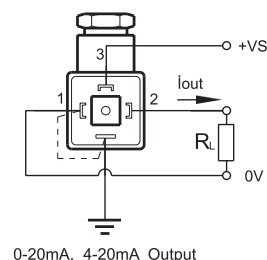
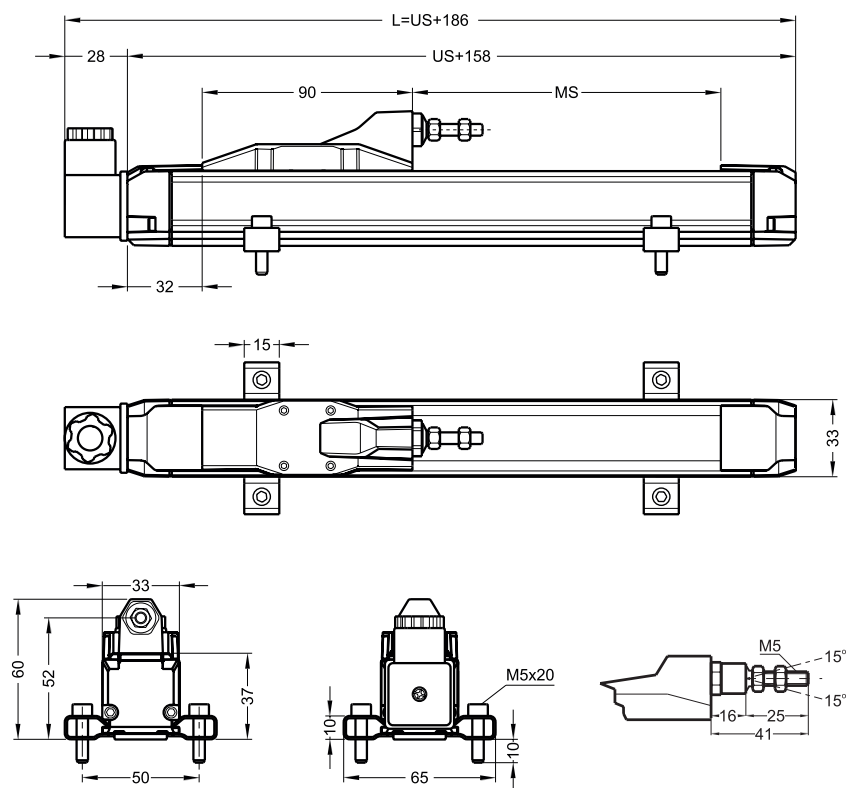
- Internal electronic circuit
- Measuring range 100 - 1950 mm
- Output 4-20 mA, 0-20 mA, 0-10 V
20-4 mA, 20-0 mA, 10-0 V
- Very low temperature drift
- Very stable output signal
- Excellent repeatability



TECHNICAL SPECIFICATIONS

Measurement stroke	100 to 1950 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
Output	4 - 20 mA, 0 - 20 mA or 0 - 10 V
Permissible applied voltage	15 - 30 VDC
Electrical connections	4 pin connector
Displacement speed	< 1,5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod diameter	Ø6 mm
Rod material	Stainless steel
Mechanical fixing	Variable brackets
IP degree	IP 40 / IP 53 if mounted upside down
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

DIMENSIONS



ELPH (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	1950
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	1950
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	1954
L (Total Length)	321	346	351	371	396	421	446	471	496	521	546	571	596	621	671	721	771	821	871	921	971	1021	1071	1121	1221	1471	1721	1921	2121

Model	Measurement stroke (mm)	Linearity (%)	Output	Connector / Cable
(example) ERPH	500	D	V10	C1
ERPH	100 ... 1950 mm	D: $\pm 0,05$ (>200 mm) $\pm 0,1$ (130 - 200 mm) $\pm 0,2$ (75 - 130 mm) $\pm 0,5$ (<75 mm)	I4 : 4 - 20 mA I04: 20-4 mA I20: 0 - 20 mA I02: 20-0 mA V10: 0 - 10 V V01: 10-0 V	C1: 4 pin connector