

ERTL Series Linear Motion Potentiometer



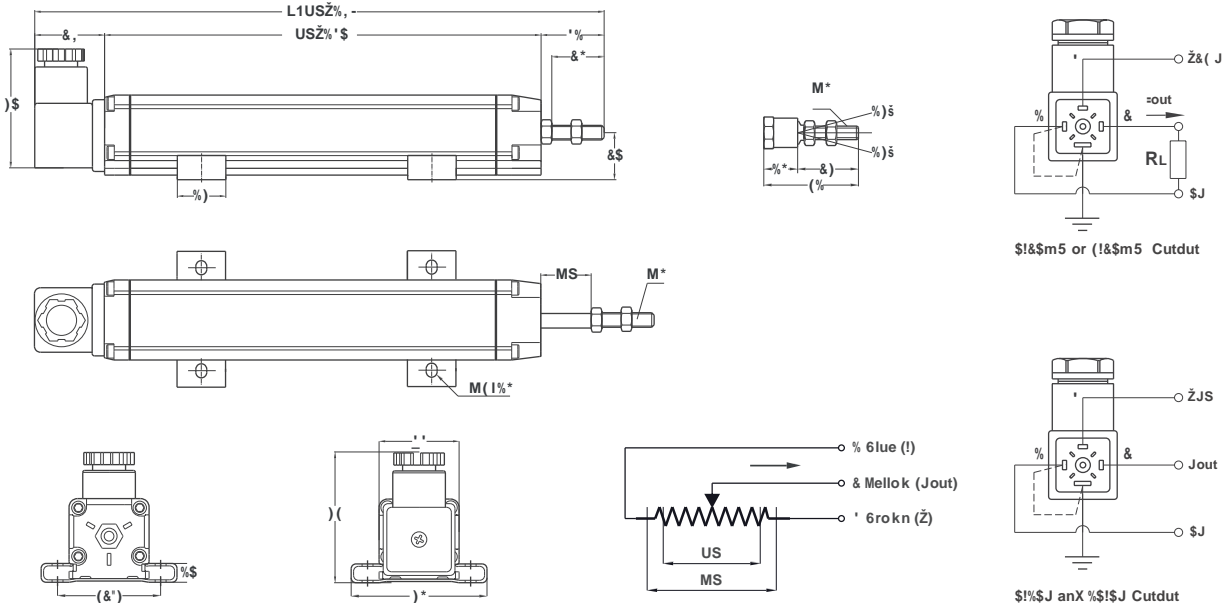
- Internal 9RO□D□H□RU□□□UUH□□□□R□GL□LR□HU
- Measuring range: 30 - 1000mm
- Outputs: 0-10V, 10-0V, 4-20mA, 20-4mA, 0-20mA, □□□0mA
- (□□HOOH□□□UHSHD□DELO□□□□□□□□□□PP
- IP65



Electrical Specifications*		Mechanical Specifications*	
Linearity	±0.5% (<75mm), ±0.2% (75-130mm) ±0.1% (130-200mm), ±0.05% (>200mm)	Measurement stroke	30 - 1000mm (see table below)
Resolution	Infinite	Repeatability	<0.01mm
Output	4-20mA or 0-20mA (current output) 0-10VDC (voltage output)	Electrical connections	4 pin connector
Load resistance	100-500Ω (current output) 10KΩ (voltage output)	Displacement speed	<5 m/s
Update rate	<1ms	Mechanical life	100 million cycles
Supply voltage	15-30VDC	Case dimensions	33mm x 33mm
Power consumption	27.5mA (current output) 7.5mA (voltage output)	Case material	Anodized aluminum
Temperature coefficient	15 ppm/°C	Rod material	Stainless Steel
Insulation resistance	>100MΩ @ 500VDC	Rod diameter	Ø6mm
		Mechanical fixing	Variable brackets
		IP degree	IP65
		Operating temperature	-20°C to +80°C
		Storage temperature	-30°C to +90°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) / Wiring



ERTL (mm)	US	MS	L	Stroke	Output	Resolution	Linearity	Temperature	IP	Material	Case	Stroke	Resolution	Linearity	Temperature	IP	Material	Case	Stroke	Resolution	Linearity	Temperature	IP	Material	Case
30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

ERTL Series Linear Motion Potentiometer



Ordering Code

Model	Measurement stroke (mm)	Linearity (%)	Output	Connector
ERTL	500	D	V10	C1
ERTL	30 - 1000 mm	A: ± 0.5 (<75mm) B: ± 0.2 (75 - 125mm) C: ± 0.1 (130 - 200mm) D: ± 0.05 (>200mm)	I40 : 4-20mA V10 : 0-10V I04 : 20-4mA V01 : 10-0V° I20 : 0-20mA I02 : 20-0mA°	C1 : 4 pin connector

Examples:

- ERTL 50 A V10 C1 (positive gradient)
- ERTL 50 A V01 C1 (negative gradient)
- ERTL 150 C I4 C1 (positive gradient)
- ERTL 150 C I04 C1 (negative gradient)
- ERTL 500 D I20 C1 (positive gradient)
- ERTL 500 D I02 C1 (negative gradient)