

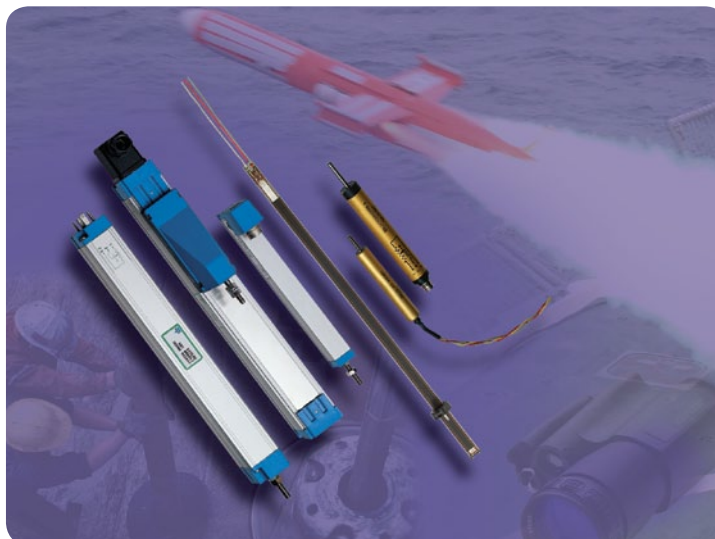


LINEAR MOTION TRANSDUCERS

Vishay Sfernice



Precision Linear Transducers



FEATURES

- Large range of strokes: 12.5 mm to 3000 mm
- Custom designs available
- Independent linearity down to $\pm 0.025\%$
- Long life: up to 50 million cycles

APPLICATIONS

- Plastic molding machines
- Positioning of missile fins
- Internal or external control of hydraulic cylinders
- Geodata applications
- Night vision cameras












RESOURCES

- For technical questions contact sferprecisionpot@vishay.com
- Sales Contacts: <http://www.vishay.com/doc?99914>

Resistors - High Accuracy Transducers

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



Model	Measurement Ranges (mm)	High Accuracy (Linearity)	Repeatability	Ohmic Values	Resistance Tolerance at 20 °C	Operating Force	Operating Life	Temperature Range	Dimensions (mm)	Options
38 L 	12.5 to 150 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.1\%$	$\leq \pm 0.01\%$	400 Ω /cm to 2 k Ω /cm	$\pm 20\%$	0.35 N typical	50 million cycles	-55 °C to +125 °C	Cylindrical ext. diam.: 9.52	On request
50 L 	25 to 300 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 Ω /cm to 2 k Ω /cm	$\pm 20\%$	0.35 N/ * 2.50 N typical	50 million cycles	-55 °C to +125 °C	Cylindrical ext. diam.: 12.7	IP65 sealing, movable clamps, spring loaded shaft, double ball joint
34 L 	25 to 450 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 Ω /cm to 2 k Ω /cm	$\pm 20\%$	0.35 N/ * 2.50 N typical	50 million cycles	-55 °C to +125 °C	Cylindrical ext. diam.: 19.05	IP65 sealing, movable clamps, spring loaded shaft, double ball joint
110 L 	25 to 450 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 Ω /cm to 2 k Ω /cm	$\pm 20\%$	5 N typical	40 million cycles	-55 °C to +125 °C	Rectangular body: 23 x 41	Output by connector or by cable, spring loaded shaft
115 L 	25 to 1000 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 Ω /cm to 2 k Ω /cm	$\pm 20\%$	7.5 N typical	40 million cycles	-55 °C to +125 °C	Rectangular body: 31.7 x 34.75	Special ball joint on shaft, female connector
139 L 	25 to 3000 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 Ω /cm to 2 k Ω /cm	$\pm 20\%$	2.5 N typical	40 million cycles	-55 °C to +125 °C	Rectangular body: 36 x 61	Female connector
LMF 	25 to 1000 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 Ω /cm to 2 k Ω /cm	$\pm 20\%$	N/A	50 million cycles	-55 °C to +125 °C	Rectangular substrate: 15 x 1.6	Output by wires
10 LA 	25 to 500 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	150 Ω /cm	$\pm 20\%$	1 N typical	40 million cycles	-20 °C to +80 °C	Cylindrical ext. diam.: 12	Sealed model
10 LH 	25 to 500 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	150 Ω /cm	$\pm 20\%$	1 N typical	40 million cycles	-20 °C to +80 °C	Cylindrical ext. diam.: 12	Unsealed to pressure
16 LA 	25 to 2000 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	150 Ω /cm	$\pm 20\%$	1 N typical	40 million cycles	-20 °C to +80 °C	Cylindrical ext. diam.: 18	Sealed model
16 LH 	25 to 2000 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	150 Ω /cm	$\pm 20\%$	1 N typical	40 million cycles	-20 °C to +80 °C	Cylindrical ext. diam.: 18	Unsealed to pressure

* If sealed to water