



# LINEAR MOTION 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

## Linear Motion Transducers

Model	Measurement Ranges (mm)	High Accuracy (Linearity)	Repeatability	Ohmic Values	Resistance Tolerance @ 20 °C	Operating Force	Operating Life	Temperature Range	Dimensions (mm)	Options
 38L	12.5 to 150 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.1\%$	$\leq \pm 0.01\%$	400 $\Omega$ /cm to 2 k $\Omega$ /cm	$\pm 20\%$	0.35 N typical	50 million cycles	- 55 °C to + 125 °C	Cylindrical ext. diam.: 9.52	On request
 50L	25 to 300 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 $\Omega$ /cm to 2 k $\Omega$ /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
 34L	25 to 450 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 $\Omega$ /cm to 2 k $\Omega$ /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
 110L	25 to 450 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 $\Omega$ /cm to 2 k $\Omega$ /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
 115L	25 to 1000 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 $\Omega$ /cm to 2 k $\Omega$ /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
 139L	25 to 3000 (increments of 25 mm)	$\leq \pm 1\%$ to $\leq \pm 0.025\%$	$\leq \pm 0.01\%$	400 $\Omega$ /cm to 2 k $\Omega$ /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 $\Omega$ /cm to 2 k $\Omega$ /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 $\Omega$ /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 $\Omega$ /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 $\Omega$ /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 $\Omega$ /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

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