



LINEAR POTENTIOMETRIC TRANSDUCERS

Linear Potentiometric Transducers Selection Table

		Max. Electrical Stroke (mm)	Resistance (Kohm)	Linearity ($\pm\%$)	Repeatability (mm)	Operating Speed	Output Signal	Supply Voltage	Electrical Connection	Operating Temperature ($^{\circ}\text{C}$)	Protection Class
	LTK Series Linear Position Transducer (sliding system)	1000	5, 10	0,1	0.01	≤ 5	Potentiometric	42V max.	DIN 43650	$-30...+100$	IP 40 IP 54
							0-10V 4-20 mA	12...30 VDC			
	LTM Series Linear Position Transducer (One-side Actuating Rod)	1000	5, 10	0,1...0,2	0.01	≤ 5	Potentiometric	42V max.	DIN 43650 or cable	$-30...+100$	IP 62
							0-10V 4-20 mA	12...30 VDC			
	LTP Series Linear Position Transducer (Double-side Articulated System)	1000	5, 10	0,1...0,2	0.01	≤ 5	Potentiometric	42V max.	DIN 43650 or cable	$-30...+100$	IP 62
							0-10V 4-20 mA	12...30 VDC			
	LTC Series Linear Position Transducer (Double-side Articulated System)	1000	5, 10	0,1...0,2	0.01	≤ 5	Potentiometric	42V max.	DIN 43650 or cable	$-30...+100$	IP 62
							0-10V 4-20 mA	12...30 VDC			
	LT Series Linear Position Transducer (Small Size)	300	5, 10	0,1...1	0.01	≤ 5	Potentiometric	42V max.	DIN 43650 or cable	$-30...+100$	IP 40
							0-10V 4-20 mA	12...30 VDC			
	LTR Series Linear Position Transducer (Push-back Spring System)	300	5, 10	0,1...1	0.01	≤ 5	Potentiometric	42V max.	DIN 43650 or cable	$-30...+100$	IP 40
							0-10V 4-20 mA	12...30 VDC			
	LF Series Linear Position Transducer (One-side Actuating Rod)	300	5, 10	0,1...1	0.01	≤ 5	Potentiometric	42V max.	DIN 43650 or cable	$-30...+100$	IP 40 IP 65
							0-10V 4-20 mA	12...30 VDC			
	LFM Series Linear Position Transducer (Double-side Articulated System)	300	5, 10	0,1...1	0.01	≤ 5	Potentiometric	42V max.	DIN 43650 or cable	$-30...+100$	IP 40 IP 65
							0-10V 4-20 mA	12...30 VDC			
	LFR Series Linear Position Transducer (Push-back Spring System)	150	5, 10	0,2...1	0.01	≤ 5	Potentiometric	42V max.	DIN 43650 or cable	$-30...+100$	IP 40 IP 65
							0-10V 4-20 mA	12...30 VDC			

LINEAR POTENTIOMETRIC TRANSDUCERS

Absolute Potentiometric Measurement, High Accuracy, Analog Output

Atek series linear transducers work as ABSOLUTE because they are measuring with the potentiometric principle, that is, they do not lose their position in case of power off. Potentiometric, 4-20 mA (optional 0-20 mA) or 0-10V analog output options are available.

Because of their linearized conductive plastic resistance alloy and special contacts, they are not affected by wear and operate for a long time with a life cycle of up to 100 million. They are stable by being linear and they measure evenly.

They are used in many fields such as plastic and metal injection machines, press brakes, transfer machines, hydraulic machines, sheet metal processing machines, bending machines, textile machines and profile cutting machines.



- Measuring ranges from 50 mm to 1000 mm
- Absolute potentiometric measurement
- Potentiometric, 4-20 mA or 0-10V analog output options
- Long life up to 100 million movements
- 5 m/s operating speed
- High accuracy
- Compact design
- DIN43650 connector or cable connection

LTK

- One-sided Actuating Rod
- Measurement lengths between 50 mm and 1000 mm
- DIN43650-A connector
- IP40 protection class
(if slider is mounted upside down, it becomes IP54)



LTM

- One-sided Actuating Rod
- Measurement lengths between 50 mm and 1000 mm
- Cable or DIN 43650-A connector
- IP62 protection class



LTP

- Double articulated body structure
- $\pm 30^\circ$ maximum angular motion with joints
- Measurement lengths between 50 mm and 1000 mm
- Cable or DIN 43650-C connector
- IP62 protection class



LTC

- Double articulated square body structure
- $\pm 30^\circ$ maximum angular motion
- Measurement lengths between 50 mm and 1000 mm
- Cable or DIN 43650-C connector
- IP62 protection class



LT

- Small size, short distance measurement with push-back spring
- Measurement lengths between 10 mm and 300 mm
- Cable or DIN 43650-C connector
- IP40 protection class



LTR

- Push-back spring system
- Measurement lengths between 10 mm and 300 mm
- Cable or DIN 43650-C connector
- IP40 protection class



LF

- One-side actuating rod
- Measurement lengths between 10 mm and 300 mm
- Cable or DIN 43650-C connector
- IP40 (optional IP65) protection class



LFM

- Double-side articulated body
- Measurement lengths between 10 mm and 300 mm
- Cable or DIN 43650-C connector
- IP40 (optional IP65) protection class



LFR

- Push-back spring system
- Measurement lengths between 10 mm and 150 mm
- Cable or DIN 43650-C connector
- IP40 (optional IP65) protection class



Model	Max. Stroke	Linearity	Resistance	Supply	Electrical Connection	Operating Temp.	Protection Class
LTK	1000 mm	±0,1%	5KΩ or 10KΩ (±20% tolerance)	For current or voltage output: 12...30 VDC For potentiometric output: 42V max.	DIN 43650 -A 4 pin connector	-30...+100 °C	IP40 or IP54
LTM		±0,1% ... ±0,2%			DIN 43650 -A 4 pin connector or cable		IP62
LTP					DIN 43650 -C 4 pin connector or cable		
LTC					DIN 43650 -A 4 pin connector or cable		
LT	300 mm	±0,1% ... ±1%			DIN 43650 -C 4 pin connector or cable		IP40
LTR	300 mm						
LF	300 mm						
LFM	300 mm						
LFR	150 mm						