LINEAR POSITION TRANSDUCERS

" Potentiometric output, articulated from double side "

LTC

- Easy installation with double-sided articulated body structure
- Square body (shaft diameter 6 mm)
- Potentiometric measurement
- Measuring distances from 50 mm to 1000 mm
- 0.01 mm Resolution
- High life with 100 million moves
- High operating speed 5 m / s
- 5 K 10 K resistor options (other resistor values optional)
- Maximum Angular Motion ± 30°
- High linearity 0.3%

The LTC Series operates on the principle of potentiometric (Resistive Resistance). The LTC series is the twin-articulated version of the LTM series. In these models, the socket comes out at 90 degrees to the body. Models that 0-10 VDC (LTC-V) or 4-20mA (LTC-A) can also be produced.

Thanks to its high resolution of 0.01 mm, precise measurements can be made. Since they are analogue outputs, they operate as ABSOLUTE, they do not lose their position during power cuts and continue to measure from where they left off.

The linearized conductive plastic (Carbon + Plastic alloy) resistive alloy and special contacts are not affected by abrasion and operate for long periods with motion lives of up to 100 million. Due to make the resistance change linear by special methods, they make stable and equal measurements every time. Thanks to the articulations, they are mounted up to max. 30° and have angular motion capability during operation.

LTP Series Potentiometric Linear Transducer Usage Areas:

- Bending Presses
- Marble Machines
- Blood Pressure Control Systems
- Saw Machines
- Transfer Machines
- Hydraulic Machines
- Metal Working Benches
- Pipe Bending Machines
- Textile Machinery
- Other automation applications

Technical Specifications	
Defined Electrical Ranges	50 - 75 - 100 - 125 - 150 - 175 - 200 - 225 - 250 - 275 - 300 - 325 - 350 - 360 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 900 - 1000
Resistance Element	Conductive Plastic
Output Signals	Potentiometric (Voltage Divider)
Independent Linearity	± %0,3
Socket Connection	4 pin female socket
Power Supply	Max. 42 VDC
Resistance	5K or 10Kohm and other (±%20 tolerance)
Operating Temperature	-30°C +100°C
Life	100 million movements
Mechanical Connection	With double sided articulated or handcuffs
Spindle Material	Stainless steel
Body Material	Anodized aluminium

Order Code

Model No

L	T	C	-	5	0	0

Defined Stroke Range

Several standard lengths from 50 mm to 1000 mm

Output

No code in potentiometric products

CE

Included in Delivery

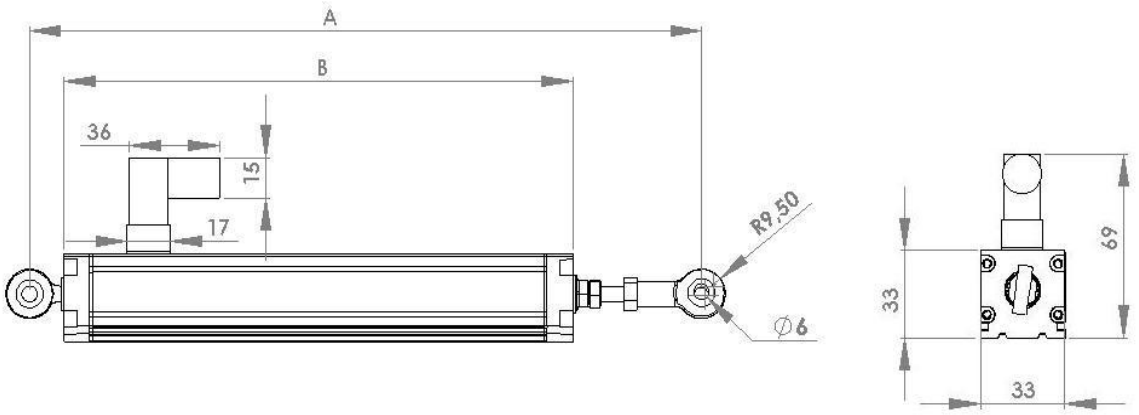
1 Connector / 4 pin female socket

**Optional fixing clamps

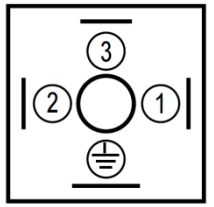
Recommended Accessories

Process-controlled indicators “ALP Series”

Mechanical Measurements

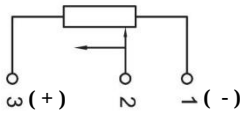


Connections



POTENTOMETRIC OUTPUT

1. Resistance / + Supply
2. COMMON
3. Resistance / - Supply
4. SHEILD



Potentiometric connection
(Voltage Divider)

Note: In voltage divider products, we can take the voltage applied to the resistor ends linearly from the common terminal.

MODEL	LTC 50	LTC 75	LTC 100	LTC 125	LTC 150	LTC 175	LTC 200	LTC 225	LTC 250	LTC 275	LTC 300	LTC 325	LTC 350	LTC 360	LTC 375	LTC 400	LTC 450	LTC 500	LTC 550	LTC 600	LTC 650	LTC 700	LTC 750	LTC 800	LTC 900	LTC 1000
STROKE	50	75	100	125	150	175	200	225	250	275	300	325	350	360	375	400	450	500	550	600	650	700	750	800	900	1000
RESISTANCE (Kohm)	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	10K	10K	10K	10K	10K	10K
MECHANICAL STROKE (mm)	54	79	104	129	154	179	204	229	254	279	304	329	354	364	379	404	454	504	554	604	654	704	754	804	904	1004
ELECTRICAL STROKE (mm)	50	75	100	125	150	175	200	225	250	275	300	325	350	360	375	400	450	500	550	600	650	700	750	800	900	1000
MECHANICAL DIMENSIONS																										
DISTANCE BETWEEN ARTICULATED (A) (mm) ±2 mm	220	245	270	295	320	345	370	395	420	445	470	495	520	530	545	570	620	670	720	770	820	870	920	970	1070	1170
BODY LENGTH (B) (mm) ±2 mm	150	175	200	225	250	275	300	325	350	375	400	425	450	460	475	500	550	600	650	700	750	800	850	900	1000	1100

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