



- Easy installation with double-sided articulated body structure
- Potentiometric measurement
- Measuring distances from 50 mm to 750 mm
- 0.01 mm resolution
- Long life with 100 million moves
- High operating speed 5 m / s
- 5 K 10 K resistor options (other resistor values optional)
- Maximum angular Motion $\pm 30^\circ$
- High independent linearity 0,3 %

The LTP Series works with a potentiometric principle. Thanks to its high resolution of 0.01 mm, precise measurements can be made.

Since they are potentiometric, 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. Because they make the resistance change linear by special methods, they make stable and equal measurements every time. They have angular motion capability during operation and mounting up to max. 30° due to articulation.

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

Length Options / Measuring Distance	50 - 75 - 100 - 125 - 150 - 175 - 200 - 225 - 250 - 275 - 300 - 325 - 350 - 360 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750
Resistance Element	Conductive Plastic
Output Signals	Potentiometric (Voltage Divider)
Independent Linearity	$\pm 0,3\%$
Socket Connection	4 pin female socket
Power Supply	Max. 42 VDC
Resistance	5K or 10Kohm and other ($\pm 20\%$ tolerance)
Operating Temperature	-30°C $+100^\circ\text{C}$
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 P - 3 0 0

Length Options / Measuring Length

Choice of measuring sizes from 50 mm to 750 mm

Output Signal

Products with potentiometric output do not contain codes.



Package Included

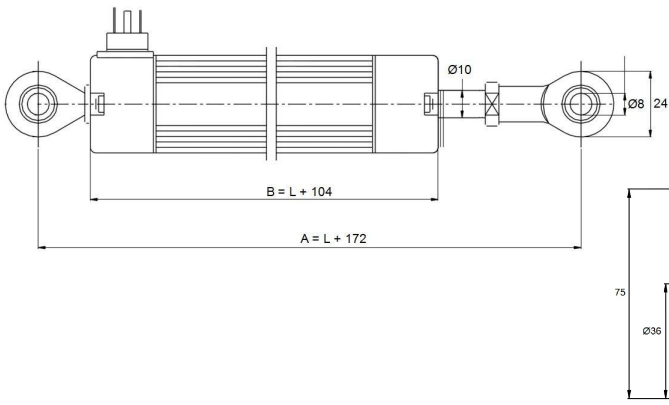
1 Connector / 4 pin female socket (DIN43650)

Recommended Accessories

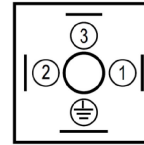
Process-controlled indicators "ALP Series"



Mechanical Measurements

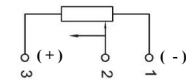


Connections



POTENTIOMETRIC OUTPUT

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



Potentiometric connection
(Voltage Divider)

TYPE Series	LTP 50	LTP 75	LTP 100	LTP 125	LTP 150	LTP 175	LTP 200	LTP 225	LTP 250	LTP 275	LTP 300	LTP 325	LTP 350	LTP 360	LTP 375	LTP 400	LTP 450	LTP 500	LTP 550	LTP 600	LTP 650	LTP 700	LTP 750
STROKE (L)	50	75	100	125	150	175	200	225	250	275	300	325	350	360	375	400	450	500	550	600	650	700	750
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
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
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
MECHANICAL DIMENSIONS																							
DISTANCE BETWEEN ARTICULATED (A) (mm) ±2 mm	222	247	272	297	322	347	372	397	422	447	472	497	522	532	547	572	622	672	722	772	822	872	922
BODY LENGTH (B) (mm) ±2 mm	154	179	204	229	254	279	304	329	354	379	404	429	454	464	479	504	554	604	654	704	754	804	854

ATEK SENSOR TECHNOLOGY AS



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