



- Twin bearing actuating rod
- Mountable over backlash free pivots heads with a large angle of free movement
- Maximum angular movement up to  $\pm 30^\circ$
- Potentiometric measuring stroke up to 750 mm
- Absolute measurement of displacement
- Resolution 0,01 mm
- Very long life up to 100 million movements
- High operating speed 5 m/s
- The grooves provide an excellent alternative to the usual system
- Excellent Linearity %0,2

LTP is built easy mounting by double pivot heads. It's a high precision potentiometric industrial linear motion transducer with a long lasting conductive track suitable for absolute position measuring in control and Measurement applications. Designed for the direct, absolute measurement of displacement or angle in control regulation and measuring applications.

Mechanical fixing and self-aligning linkage using 2 ball joints. Maximum angular movement angle is up to  $\pm 30^\circ$

High resolution (0.01 mm) combined with a stroke length of up to 750 mm permits the accurate measurement of linear displacement.

### Technical Specifications

<b>Defined Electrical Ranges</b>	50 - 75 - 100 - 125 - 150 - 200 - 175 - 200 - 225 - 250 - 275 - 300 - 360 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750
<b>Resistance Element</b>	Conductive Plastic
<b>Output Signals</b>	Potentiometric ( Voltage Divider )
<b>Independent Linearity</b>	$\pm 0,2$
<b>Electrical Connection</b>	4 pin female socket
<b>Power Supply</b>	Max. 42 VDC
<b>Resistance</b>	5K or 10Kohm and other ( $\pm 20$ tolerance )
<b>Protection Class</b>	IP65
<b>Temperature Range</b>	-30°C +100°C
<b>Life</b>	100 million movements
<b>Mechanical Fixing</b>	With 2 ball-joints
<b>Rod Material</b>	Stainless steel
<b>Housing Material</b>	Anodized aluminium

### LTP Series Potentiometric Linear Transducers are mainly used in :

- Press Brake Machines
- Marble Machines
- Tension Control
- Horizontal Band Saw Machines
- Transfer Machines
- Hydraulic Machines
- Sheet Metal Working Machines
- Bending Presses
- Textile Machines

Representante no Brasil:  
Alliance Systems Com. e Representações Ltda.;  
Tel. 11 3895 5051 | Cel. 11 99122 9810  
www.alliancesystems.com.br



### Order Code

#### Model No

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L	T	P	-	3	0	0
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#### Defined Stroke Range

Several standard lengths from 50 mm to 750 mm

#### Output

NC : Potentiometric

#### Included in Delivery

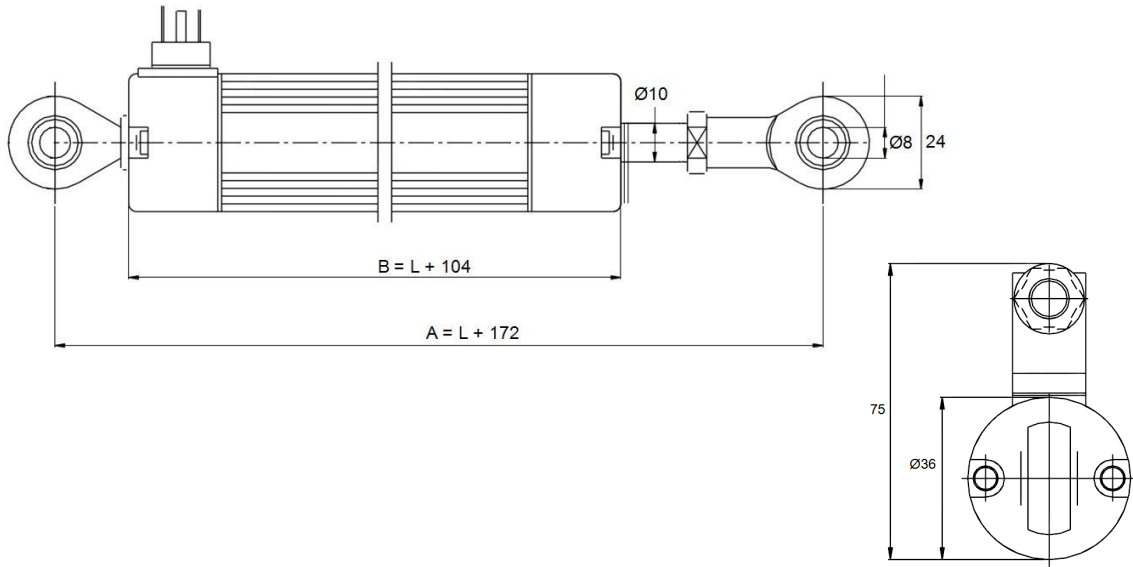
1 Connector / 4 pin female socket ( DIN43650 )

#### Recommended Accessories

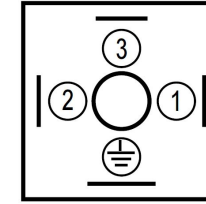
Pivot head  
Process-controlled indicators "ALP Series"



## Dimension

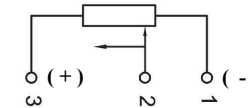


## Connections



### 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 360	LTP 400	LTP 450	LTP 500	LTP 550	LTP 600	LTP 650	LTP 700	LTP 750
<b>STROKE</b>	50	75	100	125	150	175	200	225	250	275	300	360	400	450	500	550	600	650	700	750
<b>RESISTANCE ( Kohm)</b>	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	5K	10K	10K	10K
<b>MECHANICAL STROKE ( mm)</b>	54	79	104	129	154	179	204	229	254	279	304	364	404	454	504	554	604	654	704	754
<b>ELECTRICAL STROKE ( mm)</b>	50	75	100	125	150	175	200	225	250	275	300	360	400	450	500	550	600	650	700	750
<b>MECHANICAL DIMENSIONS</b>																				
<b>BETWEEN PIVOT HEADS (A) (mm) ±2 mm</b>	222	247	272	297	322	347	372	397	422	447	472	532	572	622	672	722	772	822	872	922
<b>BODY LENGTH (B) (mm) ±2 mm</b>	155	179	204	229	254	279	304	329	354	379	404	464	504	554	604	654	704	754	804	854