

## -LTP series

*Double Articulated System for short distance measurement*

Ref : 4230

Rev : A



### DESCRIPTION

The most important feature of the LTP series position sensors is that they are articulated on both sides. Thanks to the joints, they are capable of angular movement up to 30° max. during mounting and operation.

They measure based on the potentiometric principle, therefore, they do not lose their position in case of power cut. 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 50 million. They are stable by being linear and they measure evenly between 50 mm and 1000 mm.

The LTP series are the perfect measuring device for various industrial applications, such as sheet manufacturing, wood industry, textile or packing machinery, conveyor bands, hydraulic machines, medical applications, building technology...

## TECHNICAL DATA

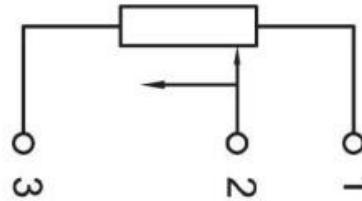
<b>ELECTRICAL DATA</b>																											
Model	LTP 50	LTP 75	LTP 100	LTP 125	LTP 150	LTP 175	LTP 200	LTP 225	LTP 250	LTP 275	LTP 300	LTP 325	LTP 350	LTP 360	LTP 375	LTP 400	LTP 450	LTP 500	LTP 550	LTP 600	LTP 650	LTP 700	LTP 750	LTP 800	LTP 900	LTP 1000	
Electrical Stroke (mm)	50	75	100	125	150	175	200	225	250	275	300	325	350	360	375	400	450	500	550	600	650	700	750	800	900	1000	
Independent Linearity (±%)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Repeatability	0.01 mm																										
Max Operating Speed	≤ 5 m/s																										
Resistance Element	Conductive Plastic																										
Output signal	Potentiometric						4-20 mA (opt. 0...20 mA) or 0-10V																				
Supply voltage	42V max.						20...30 VDC																				
Resistance	5KΩ, 10KΩ (optional other)						-																				
Resistance Tolerance (±%)	20						-																				
Resolution	Infinite																										
Electrical Connection	3 x 0,14 mm <sup>2</sup> shielded PVC cable, DIN43650-C socket, M12/4 pin socket																										
Mechanical Fixing	With double-sided articulations																										
Operating Temperature	-30°C...+100°C																										
IP Protection Class	IP62																										
Life	50 x 10 <sup>6</sup> mouvements																										
Material	Body: Aluminium Rod: Stainless Steel																										

## ELECTRICAL CONNECTIONS

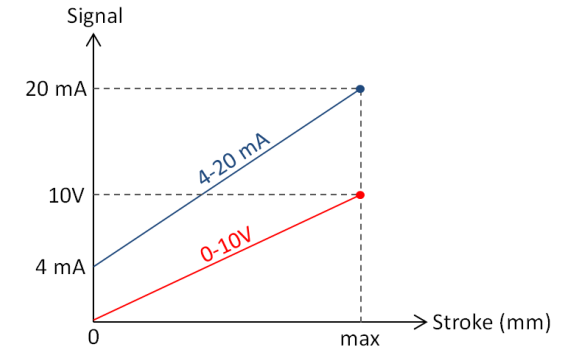
Signal	Cable	DIN 43650-C Conn.	M12-4 Pin Male Conn.
+VDC	Red	Pin 1	Pin 1
Out Signal*	Yellow	Pin 2	Pin 2
-VDC	Black	Pin 3	Pin 3

\*Output Signal may be potentiometric, 0-10 VDC or 4-20 mA depending on the model (See Product code table).

Potentiometer Connection (Voltage Divider)

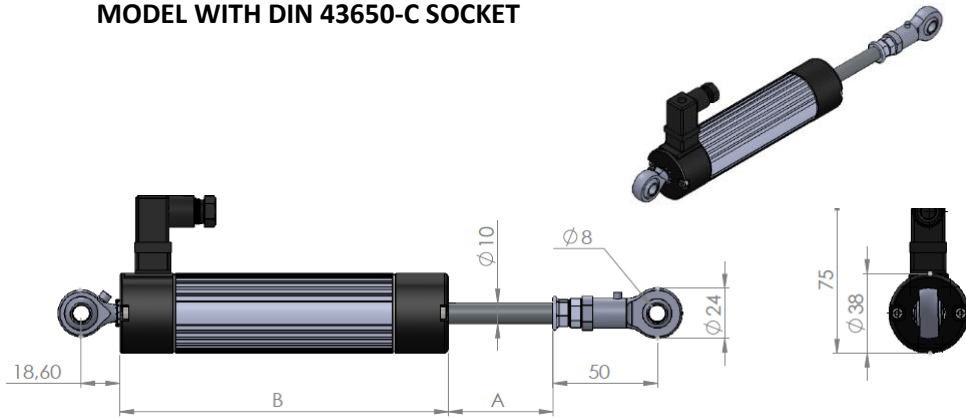


**Note:** The GND line of the feed and signal output is common. Therefore, it can be connected with 3-wire cable.

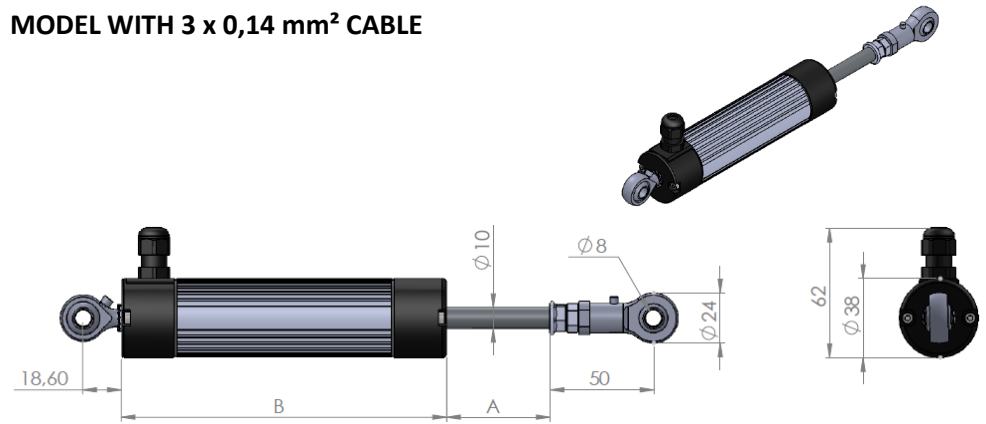


## MECHANICAL DIMENSIONS (mm)

MODEL WITH DIN 43650-C SOCKET



MODEL WITH 3 x 0,14 mm<sup>2</sup> CABLE



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
Body Length (A)	156	181	206	231	256	281	306	331	356	381	406	431	456	466	481	506	547	606	656	706	756	806	856	1001	1101	1201
Mechanical Stroke (B)	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

## ORDERING INFORMATION

### For Analog Output

#### -LTP

##### Measuring Lengths (stroke)

Different measuring lengths between 50 mm and 1000 mm

##### Output signal

**A:** 4-20 mA (\*Optional 0-20 mA)  
**V:** 0-10 VDC

##### Electrical Connection

**No Code:** DIN43650-C connector  
**S15:** M12/4 pin male socket  
**2M:** 2 meters PVC cable  
*\*Other options upon request*

### For Potentiometric Output

#### -LTP

##### Measuring Lengths (stroke)

Different measuring lengths between 50 mm and 1000 mm

##### Output signal

**5K:** 5K $\Omega$   
**10K:** 10K $\Omega$   
*\*Other options upon request*

##### Electrical Connection

**No Code:** DIN43650-C connector  
**S15:** M12/4 pin male socket  
**2M:** 2 meters PVC cable  
*\*Other options upon request*

## REVISIONS HISTORY

REVISION	DATE	DESCRIPTION
A	18/07/2025	Creation of the document

## CONTACT

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