LINEAR POSITION TRANSDUCERS

"Rodless, Sliding System for Long Distance Measurements"





GENERAL FEATURES

The most important feature of LTK series position sensors is that they have a rodless and sliding system. They take measurement by movement of the sled along the profile. This provides the body to be shorter and allows up to 1500 mm stroke length.

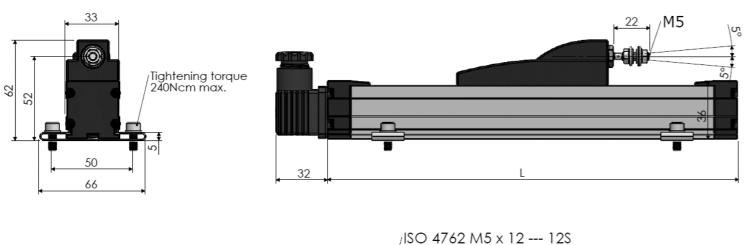
They work as ABSOLUTE because they are measuring with the potentiometric principle, that is, they do not lose their position in case of power off. Potentiometric, 4-20 mA (optional 0-20 mA) or 0-10V analog output options are available.

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.

- Rodless, sliding system
- Measuring lengths between 50 mm and 1500 mm
- Potentiometric measurement
- Potentiometric, 4-20 mA or 0-10V analog output options
- Long life up to 100 million movements
- High accuracy
- Compact design
- DIN43650-A socket connection
- IP 40 protection class (if slider is mounted upside down, it becomes IP54)

TECHNICAL SPECIFICATIONS																												
Model	LTK 50	LTK 75	LTK 100	LTK 125	LTK 150	LTK 175	LTK 200	LTK 225	LTK 250	LTK 275	LTK 300	LTK 325	LTK 350	LTK 375	LTK 400	LTK 450	LTK 500	LTK 550	LTK 600	LTK 650	LTK 700	LTK 750	LTK 800	LTK 900	LTK 1000	LTK 1100	LTK 1250	LTK 1500
Electrical Stroke (mm)	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	900	1000	1100	1250	1500
Independent Linearity (±%)	0,1																											
Repeatability	peatability 0.01 mm																											
Operating Speed	≤ 5 m/s																											
Resistance Element	nt Conductive Plastic																											
Output Signal	I Potentiometric						4-20 mA (opt. 020 mA) or 0-10V																					
Supply Voltage	42V max.						1530 VDC																					
Resistance (KΩ)	Models from 50 to 1100mm: 5K, 10K (optional others)						-																					
	Models with 1250 or 1500mm: 20K (standard)																											
Resistance Tolerance (±%)	20						-																					
Resolution	Infinite																											
		DIN 43650-A 4 pin socket																										
Mechanical Fixing	Adjus	Adjustable (sliding) mounting feet																										
Operating Temperature	-30°C+100°C																											
IP Protection Class	IP40 (if slider is mounted upside down, it becomes IP54)																											
Life	100 x	100 x 10 ⁶ movements																										
Material	Sliding parts: Plastic																											
Material	Body: Aluminum																											

MECHANICAL DIMENSIONS (mm)



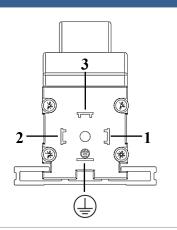
Stroke	Body Length (L)						
50	204						
75	229						
100	254						
125	279						
150	304						
175	329						
200	354						
225	379						
250	404						
275	429						
300	454						
325	479						
350	504						
375	529						
400	554						
450	604						
500	654						
550	704						
600	754						
650	804						
700	854						
750	904						
800	954						
900	1054						
1000	1154						
1100	1254						
1250	1404						
1500	1654						

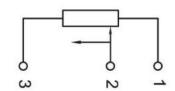
	ISO 4762 M5 x 12 12S	\oightarrow \oight
-	20	♦ 5.50

ELECTRICAL CONNECTION

SIGNAL	DIN 43650-A SOCKET						
+ V	Pin 1						
Output Signal*	Pin 2						
- V	Pin 3						

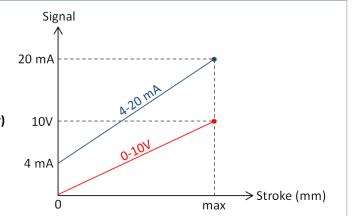
* Output Signal may be potentiometric, 0-10 VDC or 4-20 mA depending on the model (See Product code table).





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.



DS-LTK.002 Rev No:5

SAMPLE APPLICATION FIELDS

- Measuring /control technology
- Manufacturing engineering like woodwork machines, riveting machines, packaging machines etc.
- Hydraulic machines

- Press brakes
- Metal working machines
- Bending machines
- Assembly and test equipment
- Medical applications
- **Building technology**
- Textile machinery
- Plastic and metal injection machines

ORDER CODE

Order Code For Analog Output



Model No

A: 4-20 mA (*Optional 0-20 mA)

V: 0-10 VDC

LTK

Measuring length (Stroke)

XXX

XX **Electrical Connection**

Different measuring lenghts between 50 mm and 1500 mm

No code: DIN43650-A Socket (standard)

Order Code For Potenitometric Output

Resistance Value⁽¹⁾

5K: 5KΩ **10K**: 10KΩ

20K: 20KΩ

Model No

*Optional others XXX

XXX

XX

Measuring length (Stroke)

Electrical Connection

Different measuring lenghts between

50 mm and 1500 mm

No code: DIN43650-A Socket (standard)

(1) Resistance value can be selected;

5K or 10K (optional others) in models from 50 to 1100mm

20K in models 1250 and 1500mm

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