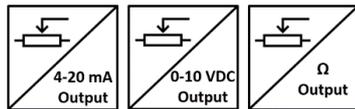


LINEAR POSITION TRANSDUCERS

“Push-Back Spring System For Short Distance Measurement”

LTR



GENERAL FEATURES

- Push-back spring system
- Potentiometric measurement
- Potentiometric, 4-20 mA or 0-10V analog output options
- Optionally cable or DIN43650-C socket connection
- Measurement lengths between 10 mm and 150 mm
- Long life up to 100 million movements
- High accuracy
- High operating speed up to 5 m/s

The most important feature of the LTR Series position sensors is the push-back spring. 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.

TECHNICAL SPECIFICATIONS

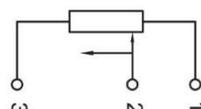
Model	LTR 010	LTR 025	LTR 050	LTR 075	LTR 100	LTR 125	LTR 150
Electrical Stroke (mm)	10	25	50	75	100	125	150
Mechanical Stroke (mm)	12	27	52	77	102	127	152
Independent Linearity	±%1	±%0,5	±%0,4	±%0,25	±%0,2	±%0,2	±%0,2
Repeatability	0.01 mm						
Max Operating Speed	5 m/s						
Resistance Element	Conductive Plastic						
Output Signal	Potentiometric		4-20 mA (opt. 0...20 mA) or 0-10V				
Supply Voltage	42V max.		12...30 VDC				
Resistance	5K, 10K (optional other)		-				
Resistance Tolerance (±%)	20		-				
Resolution	Infinite						
Electrical Connection	DIN 43650-C connector, M16 connector or 3 x 0,14 mm ² shielded PVC cable						
Operating Temperature	-30°C...+100°C						
IP Protection Class	IP40						
Life	100 million movements						
Rod Material	Stainless Steel						
Body Material	Aluminum						

ELECTRICAL CONNECTION

SIGNAL	CABLE	DIN 43650-C CONN.	M16/5 PIN MALE CONN.
+VDC	Red	Pin 1	Pin 1
Out Signal*	Yellow	Pin 2	Pin 2
-VDC	Black	Pin 3	Pin 3

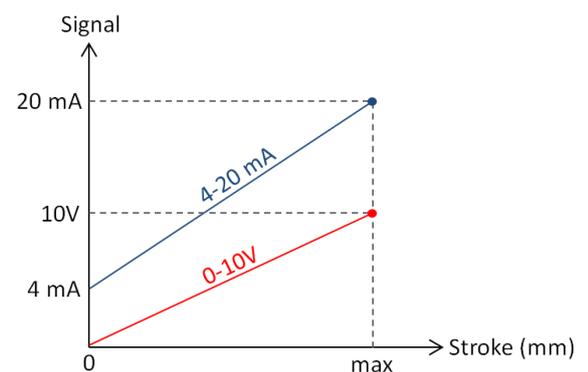
* Output Signal may be potentiometric, 0-10 VDC or 4-20 mA depending on the model (See Product code table).

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



Potentiometer Connection (Voltage Divider)

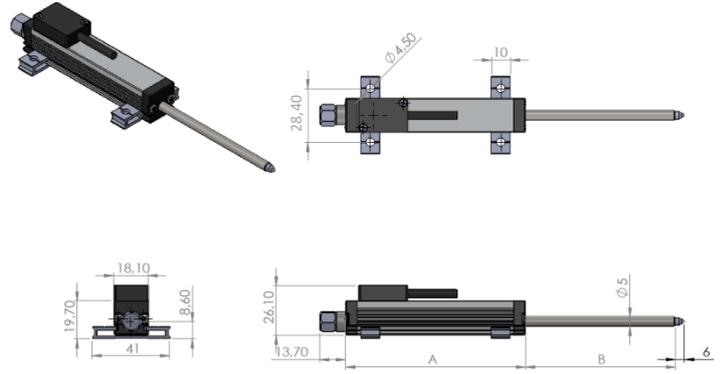
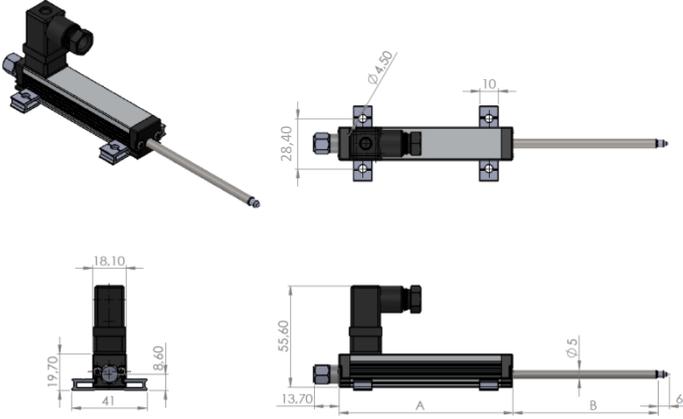
Analog Output Signal Graphic



MECHANICAL DIMENSIONS (mm)

MODEL WITH DIN 43650-C SOCKET

MODEL WITH 3 x 0,14 mm² CABLE



	Stroke (mm)	10	25	50	75	100	125	150
Potentiometric Output (with cable or socket)	A	48	64	95	128	167	193	226
	B	40	55	80	105	130	155	180
0-10 V or 4-20 mA Output (with cable)	A	48	64	95	128	167	193	226
	B	40	55	80	105	130	155	180
0-10 V or 4-20 mA Output (with socket)	A	82	97	122	147	172	197	222
	B	40	55	80	105	130	155	180

SAMPLE APPLICATION FIELDS

- Measuring /control technology
- Manufacturing engineering like woodwork machines, riveting machines, packaging machines and welding machines etc.
- Assembly / test devices
- Medical applications
- Building technology

ORDER CODE

Order Code For Analog Output

Model No

Output Signal

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

LTR	-	XXX	-	X	-	XX
-----	---	-----	---	---	---	----

Measuring Lengths (stroke)

Different measuring lengths between 10 mm and 150 mm

Electrical Connection

No Code: DIN43650-C connector
S80: M16 5 pin male connector
2M: 2 meters PVC cable (standard)
*Optional different cable lengths

Order Code For Potentiometric Output

Model No

Resistance Value

5K: 5KΩ
10K: 10KΩ

LTR	-	XXX	-	XXX	-	XX
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Measuring Lengths (stroke)

Different measuring lengths between 10 mm and 150 mm

Electrical Connection

No Code: DIN43650-C connector
S80: M16 5 pin male connector
2M: 2 meters PVC cable (standard)
*Optional different cable lengths

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