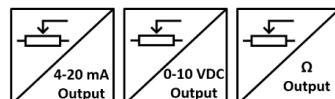


LINEAR POSITION TRANSDUCERS

“Small Structure For Short Range Measurements”

LT



GENERAL FEATURES

- Short distance measuring scale
- Potentiometric measurement
- Potentiometric, 4-20 mA or 0-10V analog output options
- Optionally cable or DIN 43650-C socket connection
- Measurement lengths between 10 mm and 300 mm
- Long life up to 100 million movements
- High accuracy
- High operating speed up to 5 m/s
- Compact design

The most important feature of LT Series position sensors is that they are used in confined spaces due to their small size. 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

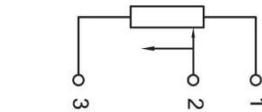
Model	LT 010	LT 025	LT 050	LT 075	LT 100	LT 125	LT 150	LT 200	LT 250	LT 300
Electrical Stroke (mm)	10	25	50	75	100	125	150	200	250	300
Mechanical Stroke (mm)	11	26	51	76	101	126	151	201	251	301
Independent Linearity	±%1	±%0,5	±%0,4	±%0,25	±%0,2	±%0,2	±%0,2	±%0,1	±%0,1	±%0,1
Repeatability	0.01 mm									
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.		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

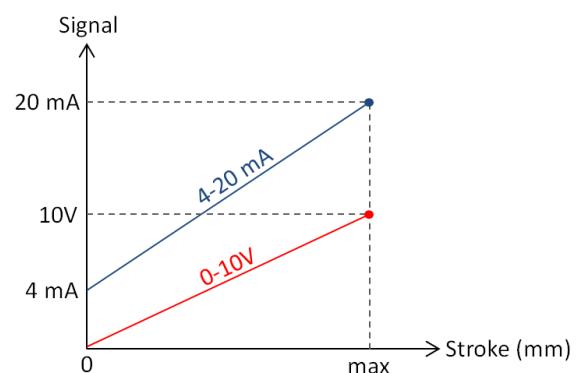
* Output Signal may be potentiometric, 0-10 VDC or 4-20 mA depending on the model (See Product code table).

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



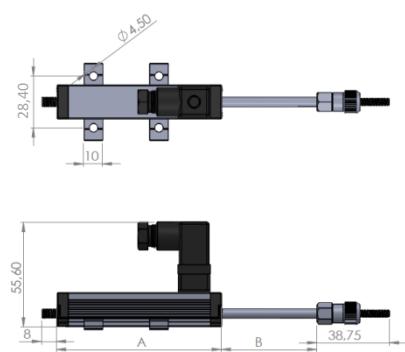
Potentiometer Connection (Voltage Divider)

Analog Output Signal Graphic

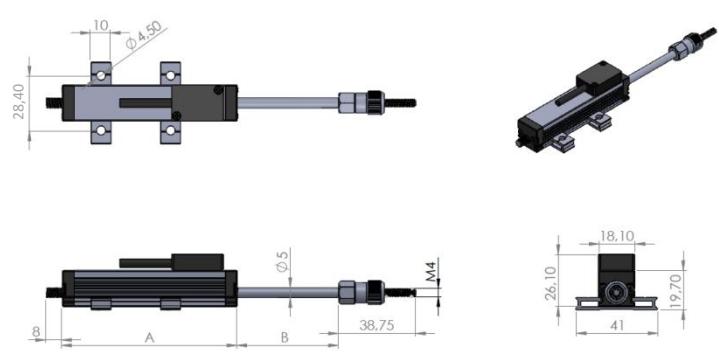


MECHANICAL DIMENSIONS (mm)

MODEL WITH DIN 43650-C SOCKET



MODEL WITH 3 x 0,14 mm² CABLE



	Stroke (mm)	10	25	50	75	100	125	150	200	250	300
Potentiometric Output (with cable or socket)	A	48	63	88	113	138	163	188	238	288	338
	B	12	27	52	77	102	127	152	202	252	302
0-10 V or 4-20 mA Output (with cable)	A	48	63	88	113	138	163	188	238	288	338
	B	12	27	52	77	102	127	152	202	252	302
0-10 V or 4-20 mA Output (with socket)	A	82	97	122	147	172	197	222	272	322	372
	B	12	27	52	77	102	127	152	202	252	302

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

Output Signal

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

Model No

LT - XXX - X - XX

Measuring Lengths (stroke)

Different measuring lengths between 10 mm and 300 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

Resistance Value

5K: 5KΩ
10K: 10KΩ

Model No

LT - XXX - XXX - XX

Measuring Lengths (stroke)

Different measuring lengths between 10 mm and 300 mm

Electrical Connection

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