

-LTR series

*Push-Back Spring System
for short distance measurement*

Ref : 4229

Rev : A



DESCRIPTION

The push-back spring is an absolute advantage of the LTR position sensor.

They are measuring with the potentiometric principle, meaning 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.

Thanks to 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 measure evenly between 10 mm and 150 mm.

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

TECHNICAL DATA

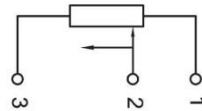
ELECTRICAL DATA							
Model	LTR 010	LTR 025	LTR 050	LTR 075	LTR 100	LTR 125	LTR 150
Electrical Stroke (mm)	10	25	50	75	100	125	150
Mechanical Stroke (mm)	12	27	52	77	102	127	152
Independent Linearity	±%1	±%0,5	±%0,4	±%0,25	±%0,2	±%0,2	±%0,2
Repeatability	0.01 mm						
Max Operating Speed	5 m/s						
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 Temp.	-30°...+100 °C						
Life span	100 million movements						
Rod material	Stainless steel						
Protection Class	IP40						

ELECTRICAL CONNECTIONS

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

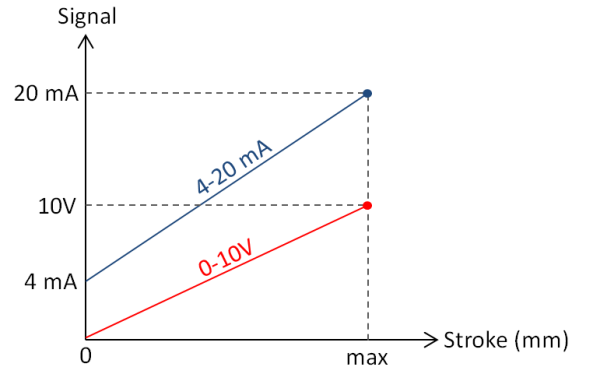
* Output Signal may be potentiometric, 0-10 VDC or 4-20 mA depending on the model (See Product code table).

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



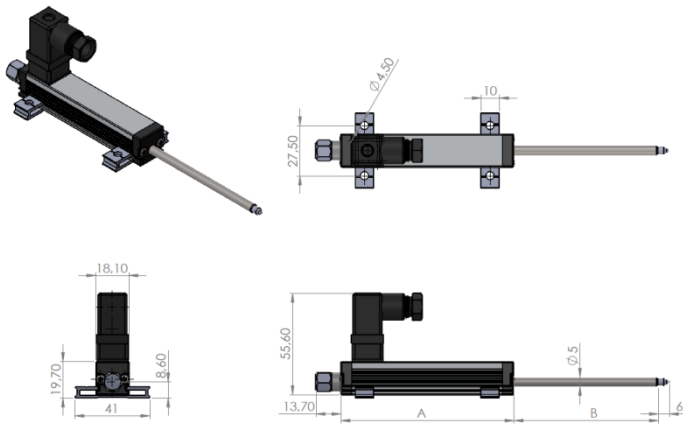
Potentiometer Connection (Voltage Divider)

Analog Oupt Signal

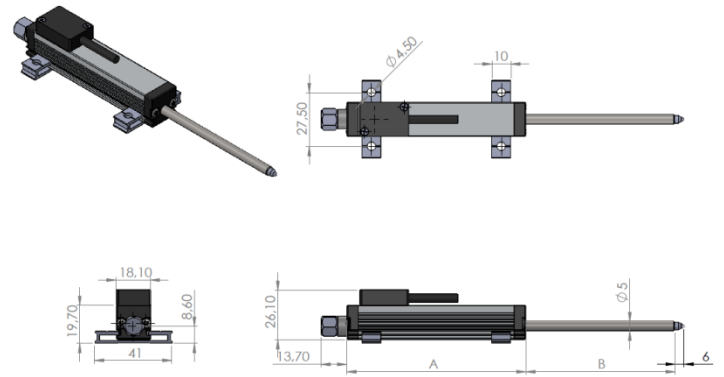


MECHANICAL DIMENSIONS (mm)

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	48	64	95	128	167	193	226
	B	40	55	80	105	130	155	180

ORDERING INFORMATION

For Analog Output

-LTR

Measuring Lengths (stroke)

Different measuring lengths between 10 mm and 150 mm

Output signal

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

Electrical Connection

No Code: DIN43650-C connector
S80: M16 5 pin male connector
2M: 2 meters PVC cable (standard)
**Other options upon request*

For Potentiometric Output

-LTR

Measuring Lengths (stroke)

Different measuring lengths between 10 mm and 150 mm

Resistance value

5K: 5K Ω
10K: 10K Ω

Electrical Connection

No Code: DIN43650-C connector
S80: M16 5 pin male connector
2M: 2 meters PVC cable (standard)
**Other options upon request*

REVISIONS HISTORY

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

CONTACT

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