

LINEAR POSITION TRANSDUCERS

“One-sided Actuating Rod, With Cable or Socket”



GENERAL FEATURES

The LTM Series, which is easy to use and install, is the most used model of the industry. It is used to measure linear movements with one-sided actuating rod.

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.

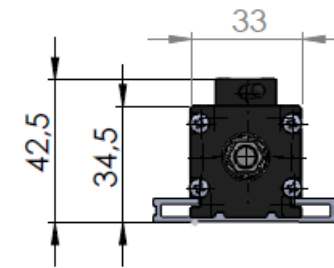
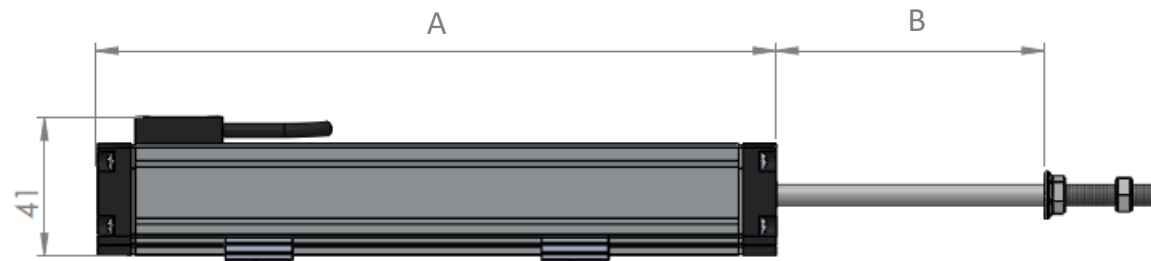
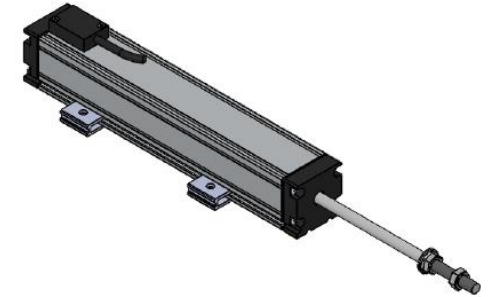
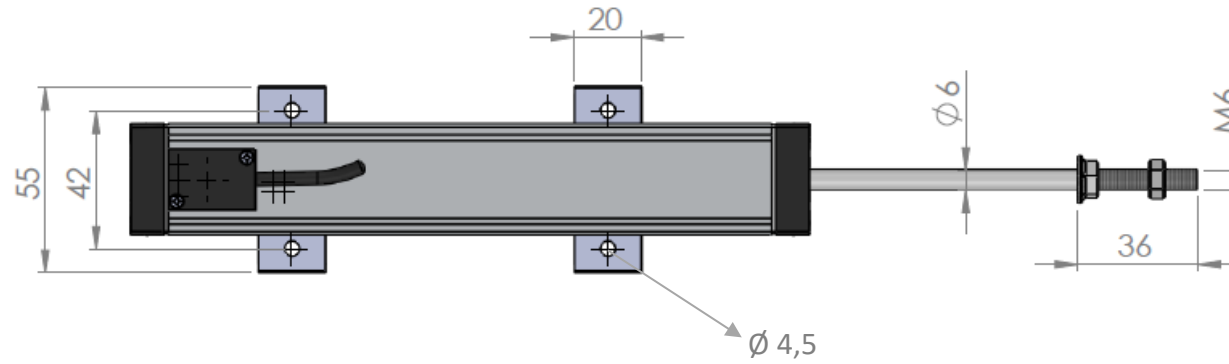
Because of their linearized conductive plastic resistance alloy and special contacts, they are not affected by wear and operate for a long time with a life cycle of up to 100 million. They are stable by being linear and they measure evenly.

- One-sided Actuating Rod
- Measurement lengths between 50 mm and 1000 mm
- Potentiometric measurement
- Potentiometric, 4-20 mA or 0-10V analog output options
- Long life up to 100 million movements
- High accuracy
- Compact design
- 5 m/s operating speed
- PVC cable or DIN43650-A socket connection
- IP62 protection class

TECHNICAL SPECIFICATIONS

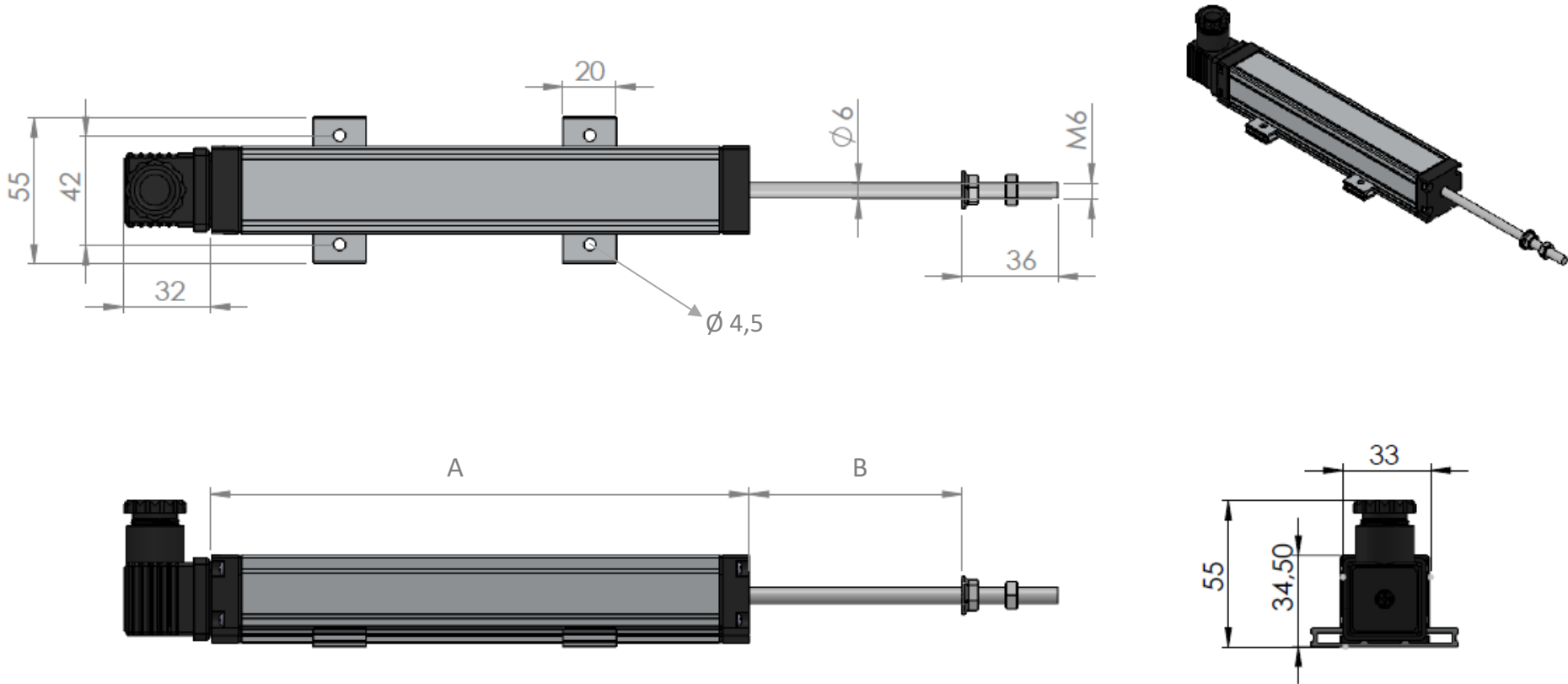
Model	LTM 50	LTM 75	LTM 100	LTM 125	LTM 150	LTM 175	LTM 200	LTM 225	LTM 250	LTM 275	LTM 300	LTM 325	LTM 350	LTM 360	LTM 375	LTM 400	LTM 450	LTM 500	LTM 550	LTM 600	LTM 650	LTM 700	LTM 750	LTM 800	LTM 900	LTM 1000		
Electrical Stroke (mm)	50	75	100	125	150	175	200	225	250	275	300	325	350	360	375	400	450	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.				15...30 VDC																							
Resistance (KΩ)	5, 10 (Optional others)				-																							
Resistance Tolerance (±%)	20				-																							
Electrical Connection	3 x 0,14 mm² shielded PVC cable or DIN43650-A socket																											
Mechanical Fixing	Adjustable (sliding) mounting feet																											
Operating Temperature	-30°C...+100°C																											
IP Protection Class	IP62																											
Life	100 x 10 ⁶ movements																											
Material	Body: Aluminium																											
	Rod: Stainless Steel																											

MECHANICAL DIMENSIONS (model with cable) (mm)



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)	125	150	175	200	225	250	275	300	325	350	375	400	425	435	450	475	525	575	625	675	725	775	825	875	975	1095
Mechanical Stroke (B)	52	77	102	127	152	177	202	227	252	277	302	327	352	362	377	402	452	502	552	602	652	702	752	802	902	1002

MECHANICAL DIMENSIONS (model with socket) (mm)

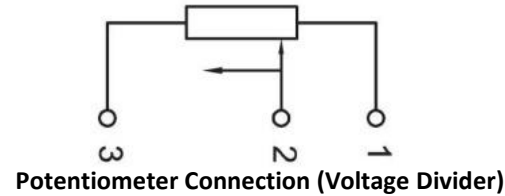
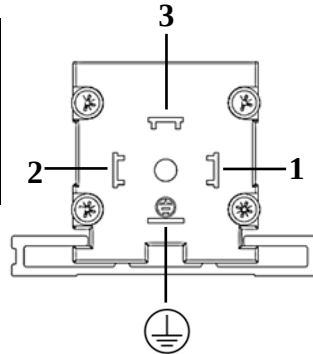


Stroke (mm)	50	75	100	125	150	175	200	225	250	275	300	325	350	360	375	400	450	500	550	600	650	700	750	800	900	1000
Body Length (A)	125	150	175	200	225	250	275	300	325	350	375	400	425	435	450	475	525	575	625	675	725	775	825	875	975	1095
Mechanical Stroke (B)	52	77	102	127	152	177	202	227	252	277	302	327	352	362	377	402	452	502	552	602	652	702	752	802	902	1002

ELECTRICAL CONNECTIONS

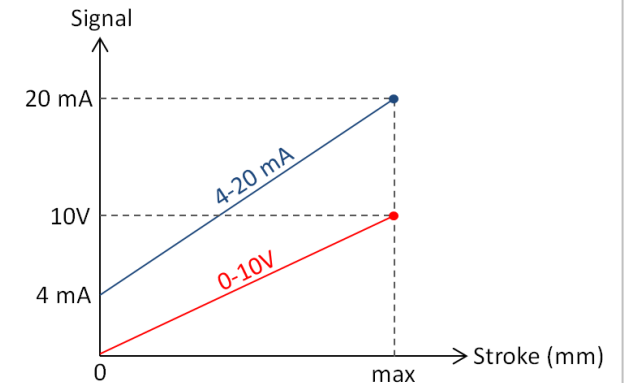
SIGNAL	CABLE COLOR	DIN 43650 –A SOCKET
+ V	Red	Pin 1
Output Signal*	Yellow	Pin 2
- V	Black	Pin 3

*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.



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
- Other automation applications

ORDER CODE

Order Code For Analog Output

Model No						Output Signal
LTM	-	XXX	-	X	-	XX
						A: 4-20 mA (Standard) V: 0-10 VDC (On request)
						Electrical Connection
						No code: DIN 43650-A socket
						On request: 2M: 2 meters PVC cable

Measuring Length (Stroke)

Different measuring lengths between 50 mm and 1000 mm

Resistance Value

5K: 5K Ω (Standard)
10K: 10K Ω (On request)

Order Code For Potentiometric Output

Model No						Resistance Value
LTM	-	XXX	-	XX	-	XX
						5K: 5K Ω (Standard) 10K: 10K Ω (On request)
						Electrical Connection
						No code: DIN 43650-A socket
						On request: 2M: 2 meters PVC cable

Measuring Length (Stroke)

Different measuring lengths between 50 mm and 1000 mm