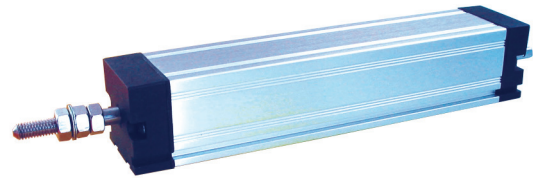
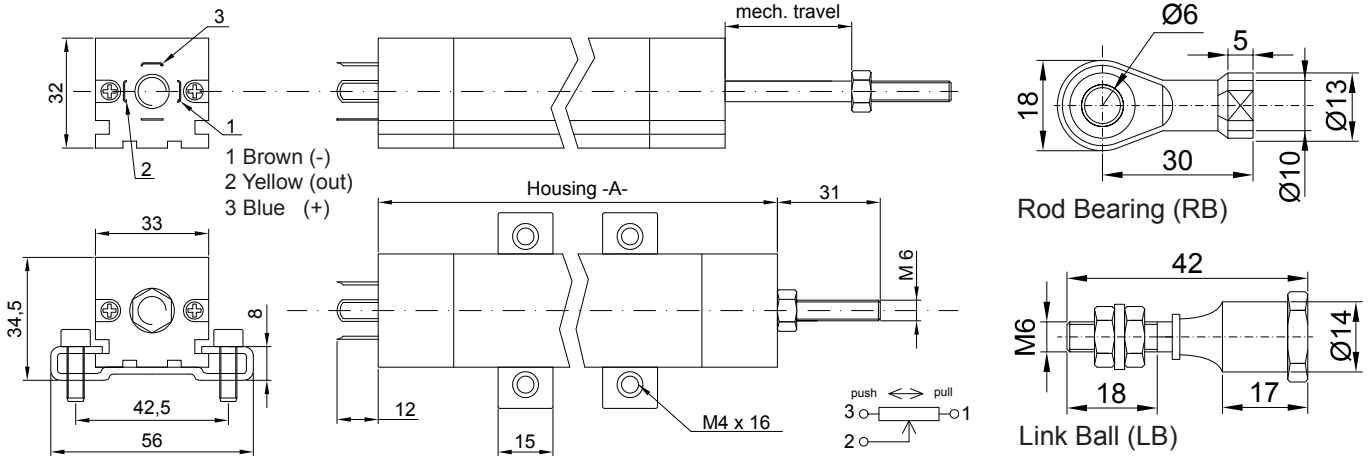


Potentiometric Linear Motion Sensor, Full Stroke Ranges 50 - 900mm

- Linearity Tolerances up to $\pm 0,1\%$
- Enclosure Design
- High Life Expectancy
- Excellent Repeatability $\pm 50\mu\text{m}$



Please note: The specification and information in this datasheet cannot consider all special demands that are caused by the application. Because of this, they are no general description of the properties of the product. Megauto does not assume any responsibility for damages due to improper application of our products. The user has to ensure by its own, that the products used are suitable for his application. Megauto does not warrant the reproducibility of published applications.



DIMENSIONS / RESISTANCES

Model	50	75	100	130	150	175	200	225	250	275	300	350	375	400	450	500	600	650	700	750	800	900
Housing -A- (mm)	114	139	164	195	215	241	266	291	316	341	367	417	444	469	520	570	672	726	776	825	879	900
Mech. travel (mm)	59	84	109	139	159	184	210	235	260	285	310	360	386	412	463	518	619	669	720	772	822	924
Electr. travel (mm)	51	76	101	131	151	176	202	227	252	277	302	352	378	404	455	506	607	657	708	708	810	910
Resist. $\pm 20\%$ (k Ω)	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	10*	10	10	10	10	10

*stock item

ELECTRICAL CHARACTERISTICS

Resistance element	conductive plastic
Standard resistance values	5kOhms $\pm 20\%$
Independent linearity tolerance	(typ. IEC60393) $\pm 0,1\%$
Resolution	quasi infinite
Repeatability	(typ. IEC60393) $\pm 50\mu\text{m}$
Input voltage	60VDC (max.)
Recommended wiper current	>1mA
Sealing	IP50
Power dissipation at 40°C	3W - 10W
Dielectric strength	500 VAC

MATERIAL

Housing	Anodized aluminium
Rod bearing/Link ball	Stainless steel

Application: The LSC transducer has an extruded aluminium housing with a stainless steel shaft. Together with precious metal wiper and special conductive plastic resistance elements the life time is 25 mil. operations according IEC60393. Long bearings in the housing ensure a smooth operation. Screwable rod end bearing or link ball allows simple mechanical coupling. The connector DIN 43650 and the mounting parts are included in the price.

MECHANICAL CHARACTERISTICS

Vibration (IEC 68-2-6:1982)	10G
Shock (IEC 68-2-29:1968)	40G
Operating force	>10N
Operating speed	4m/s (max.)
Life (movements)	(typ. IEC60393) 25 x 10 ⁶
Operating temperature (°C)	-30°C to +85°C

OPTIONS

Rod bearing(RB) or Link ball (LB)
Connector version (ST) or cable version (K)

LSCB (see datasheet „B-electronic“)
with integrated or separate (box) electronics for analog signal generating, supply Voltage: 24VDC $\pm 50\%$, sensor supply: 5VDC (fix), sensor supply: (adjustable) 1-5VDC
Current Supply: 1-10mA (adj), output: 0-5VDC, 0-10VDC, 4-20mA factory adjustable

LSCM (see datasheet „M-electronic“)
with integrated or separate (box) electronics for analog and digital signal generating and programming of functions
Voltage supply: 6VDC-36VDC,
Sensor supply: 5VDC or 10VDC
Analog output: (processed) 0-5VDC, 0-10VDC, 4-20mA (2 channels)
Digital output: RS232, 5VTTL

ORDERING INFORMATION

Detailed information for all electronics: www.megauto.de/linosense

LSCB	150	5k	RB	K	RS232
Typ	Model	Ω	mech. connector	electr. connector	output