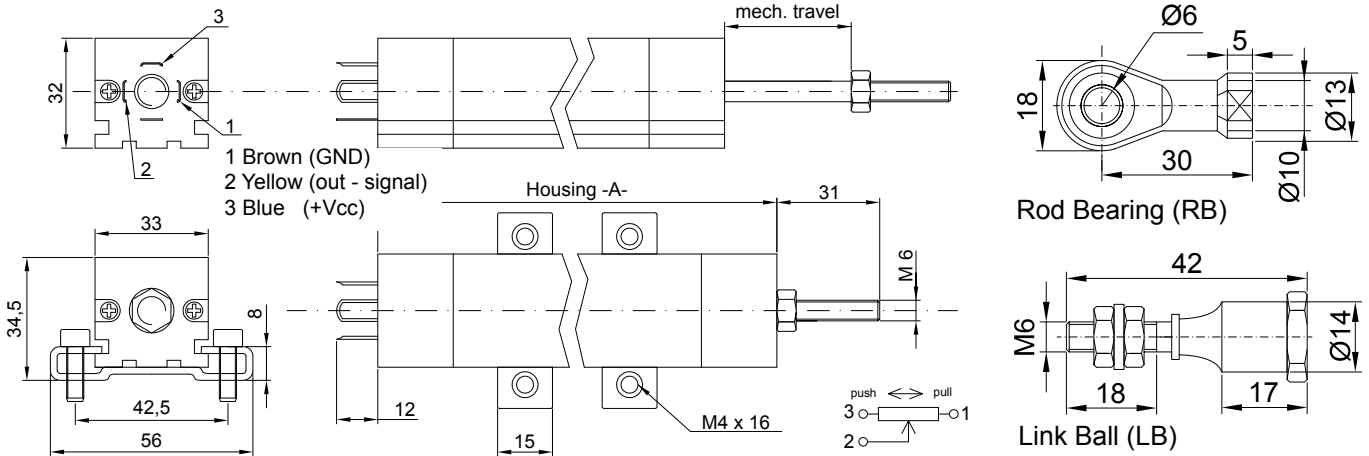


Potentiometric Linear Motion Sensor,  
Full Stroke Ranges 50 - 900mm

- Linearity Tolerance  $\pm 0,1\%$
- w/o built in analog electronic
- Long 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**

\*stock item without electronic

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 $\Omega$ )	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	10*	10	10	10	10	10

**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	IP54
Power dissipation at 40°C	3W
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 conductive plastic resistance element the life time crosses 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 <sup>6</sup>
Operating temperature (°C)	-30°C to +85°C

Rod bearing(RB) or Link ball (LB)

Connector version (ST) C193 or cable version (K)

**LSCB (signalconditioner)**

version B (in built signalconditioner) with integrated electronic to generate an analog output signal:  
 supply voltage: 10 - 32 VDC (current output CM - 2442)  
 supply voltage: 15 - 32 VDC (voltage output VM - 2410)  
 linearity error: 0,025%  
 output: 0 -10 VDC, 4-20 mA  
**Attention:** built in signalconditioner enlarges the housing by 80 mm (dimension A)

**LSCBe (external signalconditioner)** like above except an extra profile for signalconditioner

**ORDERING INFORMATION**

LSC (B)	150	5k	RB	ST	2410;2442
Typ	Model	$\Omega$	mech. joint	connector	output