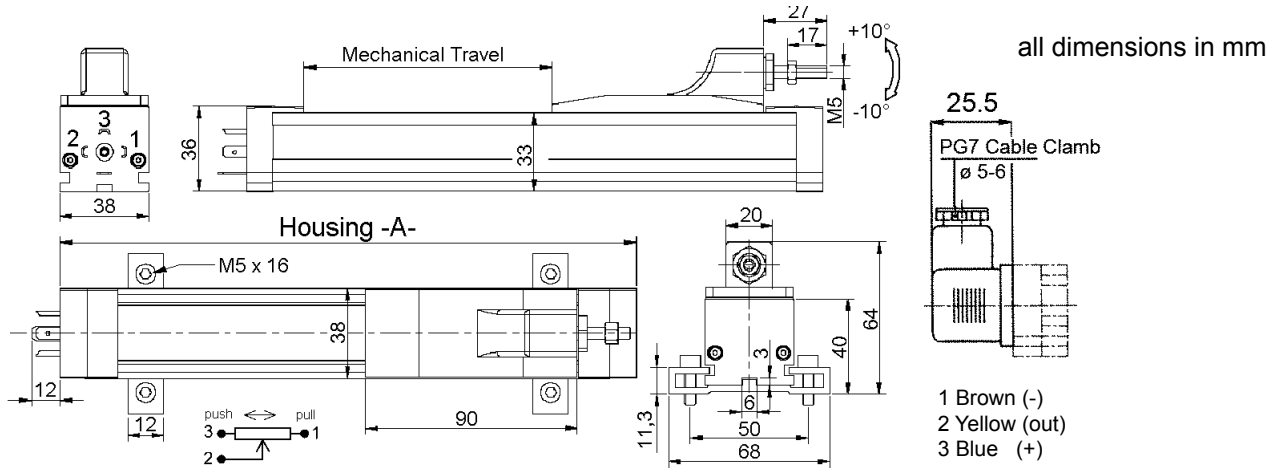


## Potentiometric Linear Motion Sensor, Full Stroke Ranges 50 - 900mm

- Linearity Tolerances  $\pm 0,1\%$
- Durable Bearing and Slider
- High Life Expectancy
- Excellent Repeatability  $\pm 50\mu\text{m}$



### DIMENSIONS / RESISTANCES (signalconditioner enlarges the body by appr. 80 mm)

\*stock item

Model	50	75	100	130	150	175	200	225	250	275	300	350	375	400	425	450	500	550	600	650	700	750	800	900
Housing -A- (mm)	198	223	248	278	298	323	349	374	399	424	449	499	525	551	577	602	653	703	754	804	855	907	957	1059
Mech. Travel (mm)	63	88	113	143	163	188	214	239	264	289	314	364	390	416	442	467	518	568	619	669	720	772	822	924
Electr. Travel (mm)	51	76	101	131	151	176	202	227	252	277	302	352	378	404	430	455	506	556	607	657	708	760	810	912
Resist. $\pm 20\%$ (k $\Omega$ )	5*	5	5*	5	5*	5	5*	5	5*	5	5*	5*	5	5*	5	5*	5*	10	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	1 $\mu\text{A}$ (max. 10mA)
Sealing	IP50
Power dissipation at 40°C	3W - 10W
Dielectric strength	500 VAC

### MATERIAL

Housing	Anodized aluminium
Link Ball	Stainless steel

**Application:** The rodless LSO transducer is a potentiometric sensor in conductive plastic technology. Side guided slider and IP40 protection make them very suitable for heavy duty application. Together with precious metal wiper and special conductive plastic resistance elements the life time is 30 mil. operations according IEC60393. A link ball avoids misalignment of the connection. The electrical connector DIN 43650 with protection class IP65 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 friction	>10N
Operating speed	4m/s (max.)
Life (movements)	30 x 10 <sup>6</sup>
Operating temperature (°C)	-30°C to +85°C
Mechanical connection	Link Ball (LB)

Connector version (ST) C193 or cable version for „B“

### LSCB (signalconditioner)

version B (in built signalconditioner) with integrated electronic to generate an analog output signal:  
 supply voltage: 7 - 32 VDC (current output CM - 2442)  
 supply voltage: 13 - 32 VDC (voltage output VM - 2410)  
 linearity error: 0,025%  
 output: 0 -10 VDC, 4-20 mA

### ORDERING INFORMATIONS

Detailed information for all electronics: [www.megauto.de/linosense](http://www.megauto.de/linosense)

LSOB	75	5k	ST	2442
Type	Model	$\Omega$	electr. connector	additional