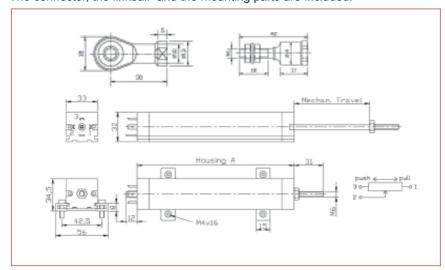
LCS, LCSB, LCSM

Potentiometric Linear Motion Sensor

The LCS is a potentiometric sensor linear motion in conductive plastic technology. A multifinger precision metal wiper and special conductive plastic resistance elements the life time is 20 Mio operations according IEC60393. A robust aluminium profile case, a stainless steel rod with sleeve bearings make the LCS most suitable for all industrial measurings and control applications where space is a premium. A vailable also with code B and code M intellegint interface electronics. The connector, the linkball and the mounting parts are included.





- Strokes from 50 to 900 mm
- Linearity tol. up to ±0,05 %
- High resolution typ. ±0,01 mm
- Operating temperature: -30° C to +100° C
- LCS without electronic
- LCSB with AnaFace B
- LCSB with SensoCont M
- Informations about integrated electronics, check link
 AnaFace B or SensoCont M

Dimensions mm

LCS - Serie																			
protection class IP60/65	50	75	100	130	150	175	200	225	275	300	350	375	400	450	500	600	650	750	900
Electrical stroke +1	50	75	100	130	150	175	200	225	275	300	350	375	400	450	500	600	650	750	900
Mechanical stroke ±1	59	84	109	139	159	184	210	235	285	310	361	386	412	463	518	619	670	772	924
Housing length	113	138	163	193	213	238	264	289	339	364	415	440	466	517	572	673	725	826	978

Electrical Features		
Resistance values ±20%	KOhm	50-650mm:5kOhm// 750-900mm: 10KOHM
Independent Linearity	%	±0,05
Resolution	mm	<0,01
Max. power rating at 40°C	W	3
Max.Operating Voltage	V	60
Temperature coefficient	ppm/K	400
Insulation resistancs	MOhm	>100 bei 500V DC
Dielectric strength		<500 Veff. (50 Hz)
Max. wiper current	mA	1
Recommended wiper curre	ent µA	<1
Mechanical Features		
Max. Operating Speed	m/s	2
Operating Force	N	2
Material of Housing		anodized Aluminium
Material of rod		stainless steel
Life Time		>25 x 10 ⁶ movements
		723 X 10 Movements
Enviorement conditions		23 x 10 movements
Enviorement conditions Operating Temperature	°C	-30+100
	°C °C	
Operating Temperature		-30+100

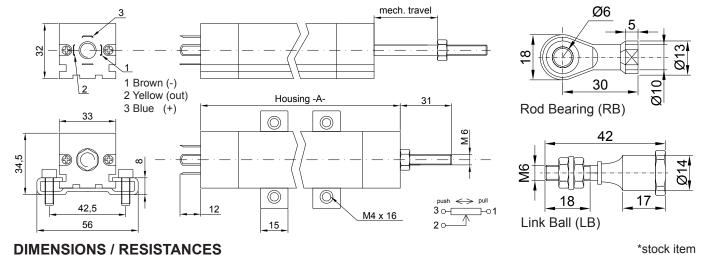
Order Code: Type	Stroke	Res.Value	Mechn.	Cable (K) or	Туре	Interface 0.5VDC,
			Connection	Connect.(St)	Electronics	RS232 ect.

_CS(/B/M

LCSB Analog Output / LCSM Digital Output Potentiometric Linear Motion Sensor. Full Stroke Ranges 50 - 900mm

- Linearity Tolerances up to ±0.1%
- Enclosure Design
- High Life Expectancy
- Excellent Repeatability ±50µm





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) 114 139 215 241 266 291 316 341 367 417 444 469 520 570 672 726 776 825 879 900 184 210 235 260 285 310 360 386 412 463 518 619 669 720 Mech. travel (mm) 59 84 109 139 159 772 822 924 176 202 227 252 277 302 352 378 404 455 506 607 657 708 708 810 910 Electr. travel (mm) 51 76 101 131 151 Resist. ±20% (kΩ) 5* 5* 5* 5* 5* 5* 5* 5* 10* 10 10 10

ELECTRICAL CHARACTERISTICS

Resistance element	conduktive plastic
Standard resistance values	5kOhms ±20%
Independent linearity tolerance	(typ. IEC60393) ± 0,1%
Resolution	quasi ininite
Repeatability	(typ. IEC60393) ± 50μm
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 LCS 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

10G
40G
>10N
4m/s (max.)
(typ. IEC60393) 25 x 10 ⁶
-30°C to +85°C

OPTIONS

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

LCSB (see datasheet "B-electronic")

with integrated or separate (box) electronics for analog signal generating, supply Voltage: 24VDC ±50%, sensor supply: 5VDC (fix), sensor supply: (adjustable) 1-5VDC Current Supply: 1-10mA (adj), output: 0-5VDC, 0-10VDC, 4-20mA factory adjustable

LCSM (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

