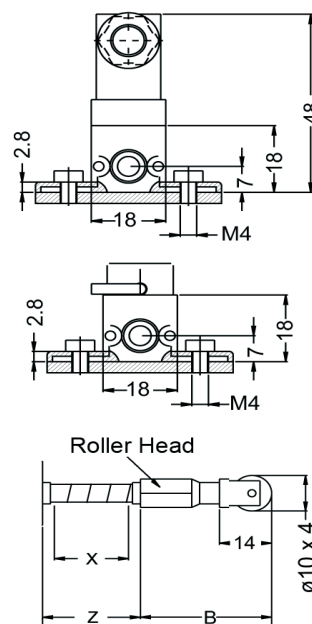
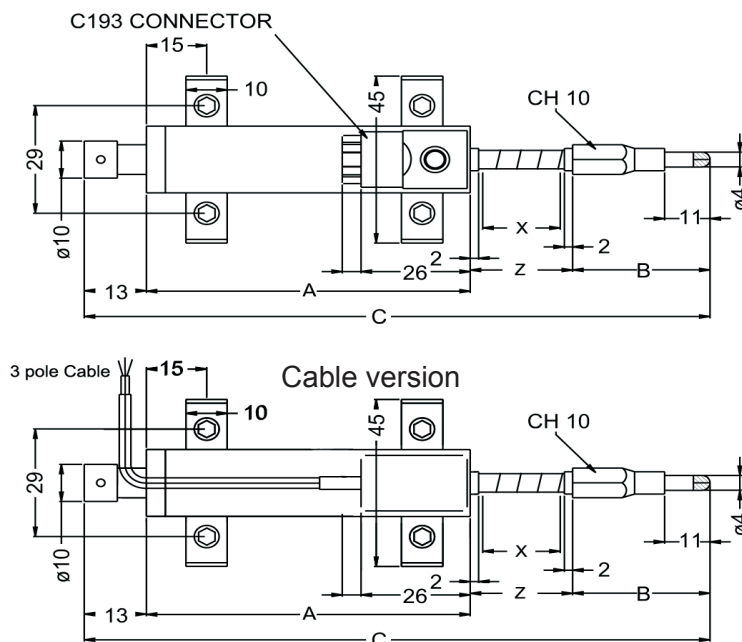
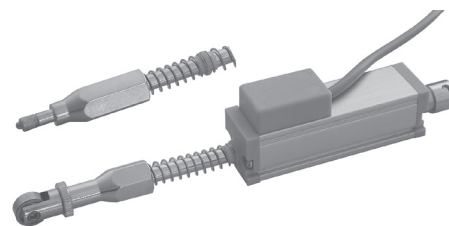
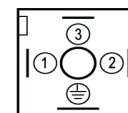


Potentiometric Linear Motion Sensor, Various Stroke Ranges 10 - 50mm

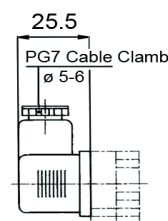
- Compact Design for Limited Space
- Double Slide and Bearing
- Excellent Repeatability $\pm 50\mu\text{m}$
- Spring loaded, no mechanical coupling



Connector Plug
Pin Assignment



push pull
3 2 1
2 1
1 Brown (-)
2 Yellow (out)
3 Blue (+)



ELECTRICAL CHARACTERISTICS

Resistance Element	Conductive Plastic
Standard Resistance Values	1k/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 μA (max. 10mA)
Power Dissipation	3W - 10W
Dielectric Strength	500 VAC

MECHANICAL CHARACTERISTICS

Operating force	>5N
Operating speed	5m/s (max.)
Life (movements)	(typ. IEC60393) 20×10^6
Operating temperature (°C)	-30°C to +85°C

MATERIAL

Housing	Anodized aluminium
Link ball/roller head	stainless steel

Application: Spring return linear motion sensors are widely used in quality control systems. Code B or Code M electronics are fixed outside in metal case on the standard aluminium profile. Favourite applications are for instance camera following devices.

DIMENSIONS / RESISTANCES

(Dimensions in mm)	Roller Head			Ball Head				
Model*	10	25	50	10	25	50	75	100
Housing -A-	48	63	88	48	63	88	115	140
Length -C-	119	149	207	108	138	196	260	318
Electr. Travel -X-	11	28	51	11	26	51	76	101
Mech. Travel -Z-	15	30	55	15	30	55	96	120
Resist. $\pm 20\%$ (k Ω)	1	1	5	1	1	5	5	5

* All mounting parts are included (clamps).

OPTIONS

Roller head (RL), ball head (BA)
Connector version (ST) or cable version (K)
Fuse protected (F)
Anti rotation shaft (AS)

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, 5VTTTL

ORDERING INFORMATION

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

MTR18	RL	25	1k	K	RS232
Typ	Head	Model	Ω	electr. connector	output