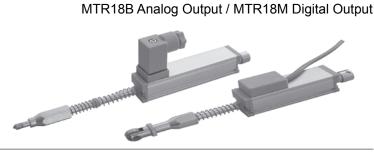
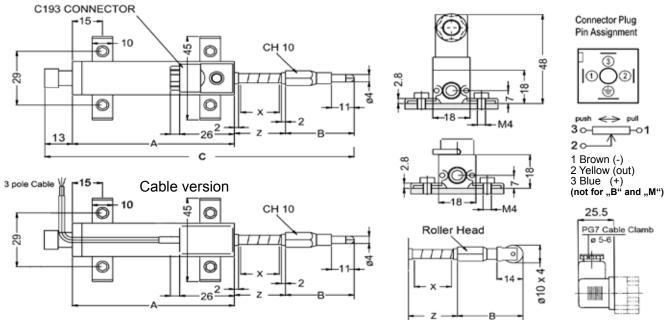
Potentiometric Linear Motion Sensor, Various Stroke Ranges 10 - 50mm

- Compact Design for Limited Space
- Double Slide and Bearing
- Excellent Repeatability ±50µm
- Spring loaded, no mechanical coupling





ELECTRICAL CHARACTERISTICS

Resistance Element	Conduktive Plastic
Standard Resistance Values	1k/5kOhms ±20%
Independent Linearity Tolerance	(typ. IEC60393) ± 0,1%
Resolution	quasi infinite
Repeatability	(typ. IEC60393) ±50µm
Input Voltage	60VDC (max.)
Recommended Wiper Current	1µA (max. 10mA)
Sealing	IP45
Power Dissipation	3W - 10W
Dielectric Strength	500 VAC

MECHANICAL CHARACTERISTICS

Operating force	>5N
Operating speed	5m/s (max.)
Life (movements)	(typ. IEC60393) 20 x 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
Dimension -B-	43	43	51	32	32	40		
Dimension -C-	114	149	207	108	138	196		
Electr. Travel -X-	11	28	51	11	26	51	76	101
Mech. Travel -Z-	15	30	55	15	30	55	96	120
Resist. ±20% (kΩ)	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)

MTRB (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

MTRM (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 INFORMATIONS

Detailed information for all electronics: www.megauto.de/linosense MTR18 RL 25 1k RS232 Typ Head Model Ω electr. connector output

MEGAUTO KG - 01156 Dresden - Am Tummelsgrund 48 - www.megauto.de Tel.: +49.351.43888811 • Fax: +49.351.43888812 • mail: info@megauto.de

