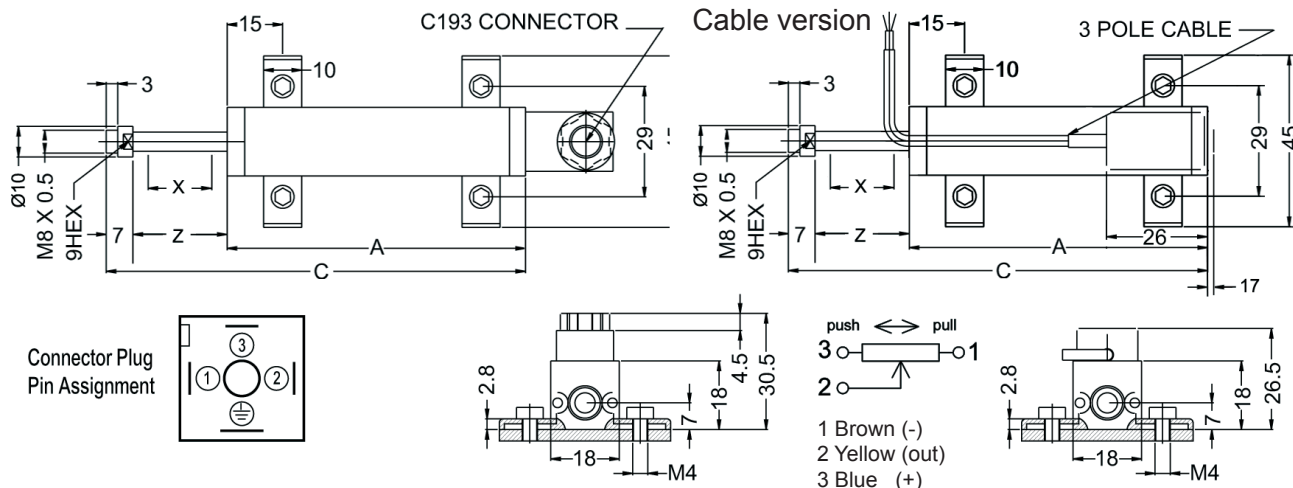
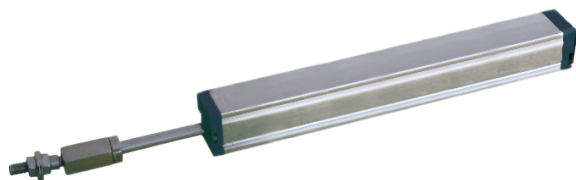


## Potentiometric Linear Motion Sensor, Full Stroke Ranges 50 - 450mm

- Compact Design for Limited Space
- Standard Coupling Connector
- Linearity Tolerances up to  $\pm 0,1\%$
- Excellent Repeatability  $\pm 50\mu\text{m}$



### DIMENSIONS / RESISTANCES

Model	10	25	50	75	100	125	150	175	200	225	250	275	300	350	375	400	425	450
Housing -A- (mm)	60	75	100	125	150	175	200	225	250	275	300	325	350	400	425	450	475	500
Min. Dist. -B- (mm)	83	113	163	213	263	313	363	413	463	513	563	613	663	763	813	863	913	963
Mech. Travel (mm)	11	26	51	76	101	126	151	177	202	227	252	277	302	353	378	403	428	453
Electr. Travel (mm)	15	30	55	80	105	130	155	180	205	230	255	280	305	355	380	405	430	455
Resist. $\pm 20\%$ (k $\Omega$ )	1	1	5	5	5*	5	5*	5	5*	5	5*	5	5	5*	5	5*	5	5*

\*stock item

### ELECTRICAL CHARACTERISTICS

Resistance element	Conductive Plastic
Standard resistance values	1k/5kOhms $\pm 20\%$
Independent linearity tolerance	(typ. IEC60393) $\pm 0,07\%$
Resolution	quasi infinite
Repeatability	(typ. IEC60393) $\pm 50\mu\text{m}$
Input voltage	60VDC (max.)
Recommended wiper current	<1mA
Sealing	IP45
Power dissipation	3W - 10W
Dielectric strength	500 VAC

### MATERIAL

Housing	Anodized Aluminium
Link ball	Stainless steel

**Application:** The MTI18 transducer is a potentiometric sensor in conductive plastic technology. Multifinger wipers guarantee a smooth output signal. This mini design, combined with a robust extruded alumina profile, makes the sensor suitable for applications with limited space. The housing for the optional electronics is directly mounted on the sensor body.

### MECHANICAL CHARACTERISTICS

Vibration (IEC 68-2-6:1982)	10G
Shock (IEC 68-2-29:1968)	40G
Operating force	>5N
Operating speed	5m/s (max.)
Life (movements)	(typ. IEC60393) $20 \times 10^6$
Operating temperature (°C)	-30°C to +85°C
Mechanical connection	Link ball

### OPTIONS

Connector version (ST) or cable version (K)

#### 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, 5V TTL

### ORDERING INFORMATION

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

MTI18	100	5k	K	RS232
Typ	Model	$\Omega$	electr. connector	additional

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