

POTENTIOMETRIC CONDUCTIVE PLASTIC LINEAR POSITION SENSOR WPL



As an absolute linear position sensor with robust design and a 3 or 4 mm push rod, the Metallux linear position sensor features conductive plastic technology, a long lifetime and easy installation. The mechanical coupling is by threaded connectors. The measuring range is from 25 mm to 300 mm. Customised versions according to customer specific requirements can be offered.

FEATURES

- Long lifetime
- Easy mounting

APPLICATIONS

- Displacement probes
- Cylinder stroke measurement
- Foot pedal position
- Valve control



ELECTRICAL SPECIFICATIONS

Resistance range (Rn)	1k Ω per 10 mm *
Resistance tolerance	\pm 20 %
Electrical stroke	25 ... 300 mm *
Independent linearity	\pm 2 %
Resolution	Analogue, almost infinite
Maximum wiper current	5 mA in case of malfunction
Typical supply voltage	3 – 30 VDC
Wiper load	> 100 x Rn
Insulation resistance	10 G Ω at 500 VDC
Dielectric strength	700 VAC

Mechanical and electrical characteristics are customizable. Specifications are subject to change without notice. * Others on request.

MECHANICAL SPECIFICATIONS

Lifetime	5 million cycles
Protection class	IP 63 according to DIN EN 60529
Adjustable force	2 – 8 N spring force < 0.5 N without spring

AMBIENT CONDITIONS

Operating temperature	– 25°C ... +65°C
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MATERIALS

Housing	Aluminium
Push rod	Stainless steel
1 m connectors	Flexible cable 3x 0.14 mm ²

CUSTOMIZED ORDER

See table on page WPL [2]

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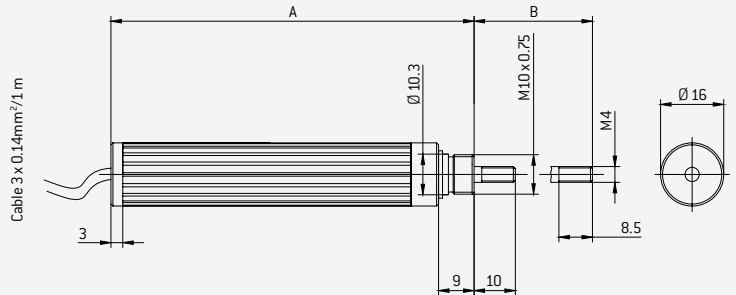
WPL (2)



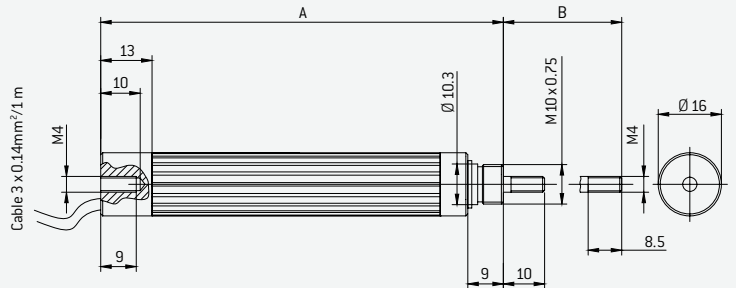
The potentiometric conductive plastic position sensor WPL is available in different designs. Customized modifications can be realized at any time.

On request available with return spring for all versions.

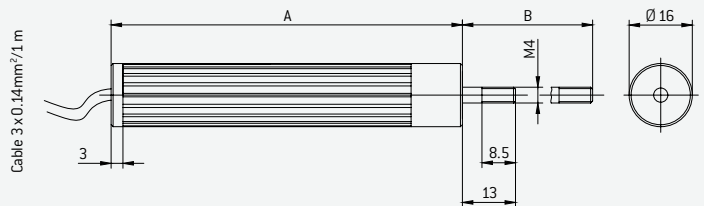
WPL-LH-SEZ-XXX							
	25	50	75	100	150	250	300
El. stroke [mm]	25	50	75	100	150	250	300
Mech. stroke [mm]	26	51	76	101	151	251	301
Dim. A [mm]	67	92	117	142	192	292	342
Dim. B [mm]	36	61	86	111	161	261	311
Resistance ± 20 % [kOhm]	10	10	10	10	10	17	21



WPL-LH-SGZ-XXX							
	25	50	75	100	150	250	300
El. stroke [mm]	25	50	75	100	150	250	300
Mech. stroke [mm]	26	51	76	101	151	251	301
Dim. A [mm]	77	102	127	152	202	302	352
Dim. B [mm]	36	61	86	111	161	261	311
Resistance ± 20 % [kOhm]	10	10	10	10	10	17	21



WPL-LH-SG-XXX							
	25	50	75	100	150	250	300
El. stroke [mm]	25	50	75	100	150	250	300
Mech. stroke [mm]	26	51	76	101	151	251	301
Dim. A [mm]	64	89	114	139	189	289	339
Dim. B [mm]	39	64	89	114	164	264	314
Resistance ± 20 % [kOhm]	10	10	10	10	10	17	21



WPL-LH-SE-XXX							
	25	50	75	100	150	250	300
El. stroke [mm]	25	50	75	100	150	250	300
Mech. stroke [mm]	26	51	76	101	151	251	301
Dim. A [mm]	74	99	124	149	199	299	349
Dim. B [mm]	39	64	89	114	164	264	314
Resistance ± 20 % [kOhm]	10	10	10	10	10	17	21

