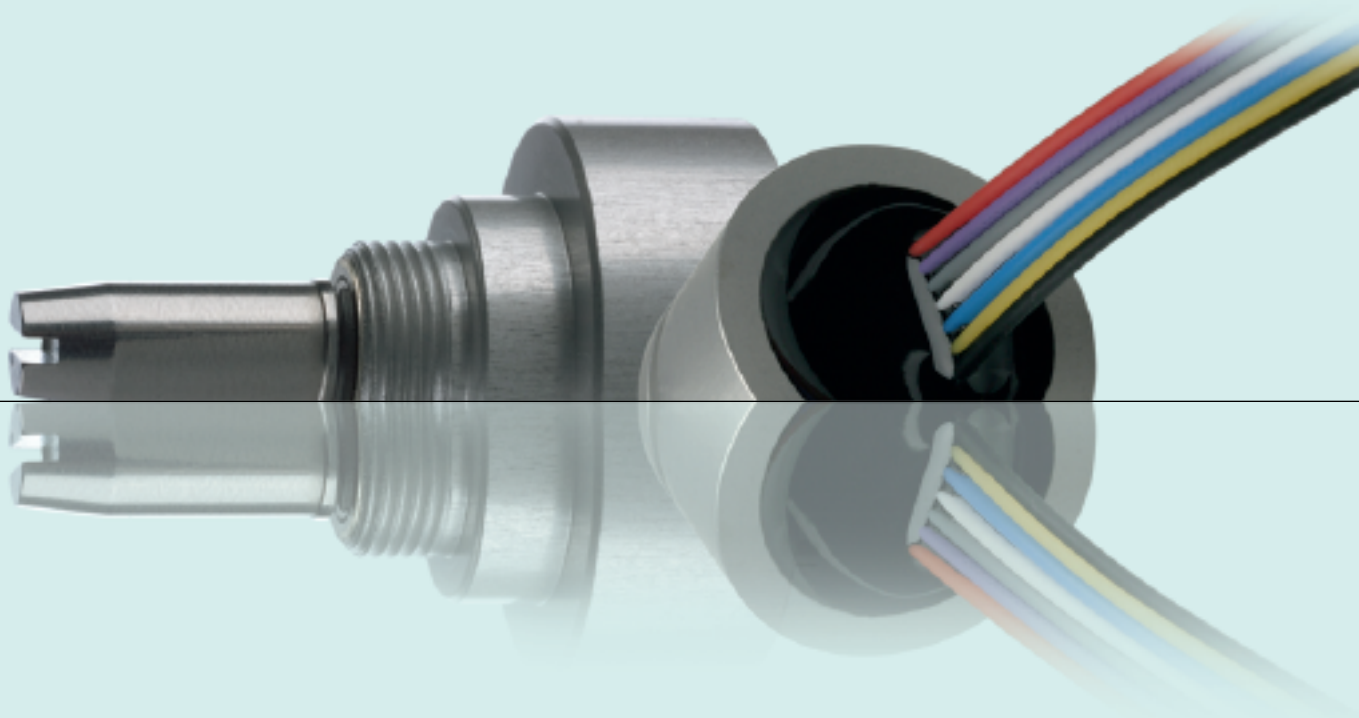


Linear- and Rotary Sensors Product Overview



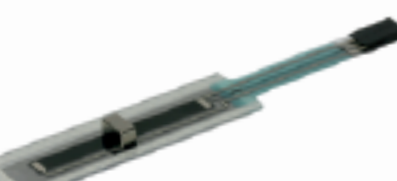
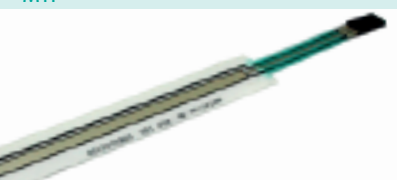
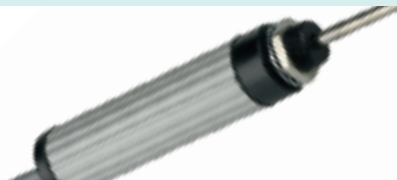


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Linear- and Rotary Sensors Product Overview


Type	Dimensions	Lifetime Cycles	Operating Temperature	Electrical Distance/Angle	Resistance Range	Temperature Dependency	Independent Linearity	Technology
Linear Sensor - contactless MMP	 length: electrical stroke + 26 mm, width: 22 mm	> 20 Mio	- 20° – + 65°C - 25° – + 85°C - 20° – + 125°C (optional)	50 – 500 mm	2,5 kΩ per 100 mm stroke	TC ratio < 50ppm/°C	± 2% – ± 5%	magnetic foil potentiometer
Special features: contactless - absolut sensor - IP65 - easy to install - flat - custom specific design								
Linear Sensor - foil technology MTP	 length: electrical stroke + 18 mm width: 22 mm	> 5 Mio	- 20° – + 65°C - 40° – + 85°C - 25° – + 125°C (optional)	50 – 500 mm	2,5 kΩ per 100 mm	TC ratio < 50 ppm/°C	± 2% – ± 5%	-
Special features: IP65 - flat - sealed - easy mounting by selfadhesive foil - high life cycle								
Linear Position Sensor Conductive Plastic WPL-LH	 length: electrical stroke + 39 mm diameter: 16 mm	> 10 Mio	- 25° – + 85°C	up to 300 mm	5 kΩ, (other values on request)	TC ratio < 20 ppm/°C	± 2% – ± 0,25%	3 mm/4 mm
Special features: aluminium housing - IP65 - ball coupling - double bearing - cable-/plug connection								
Linear Position Sensor Conductive Plastic without Plunger WPL-OS	 length: electrical stroke + 40 mm width: 20 mm	> 10 Mio	- 25° – + 85°C	105 mm (other on request)	5 kΩ	TC ratio < 20 ppm/°C	± 2% – ± 0,5%	-
Special features: space saving (without plunger) - technically precise - low installation height - flexible								
Linear Sensor Elements PE	 length: electrical stroke + 15 mm width: min. 22 mm	> 10 Mio	- 40° – + 125°C	5 – 500 mm	1/5/10 kΩ	TC ratio < 20 ppm/°C	< 2% – < 0,5%	-
Special features: optional linearity ± 0,25 % - custom specific design as from 500 parts								


Type	Dimensions	Lifetime Cycles	Operating Temperature	Electrical Angle/Distance	Output Signal	Accuracy	Independent Linearity	Axle Diameter
Rotary Hall Sensor HMS								
	diameter: 22,2 mm	> 10 Mio	- 25° – + 85°C	0° – 360°	0,5 – 4,5 Volt at 5V supply voltage	< 2,0%	calibratable	6 mm
Special features: contactless - output programmable - IP65 - solution 12 bit - custom specific designs								NEW


Type	Dimensions	Lifetime Cycles	Operating Temperature	Electrical Distance/Angle	Resistance Range	Temperature Dependency	Independent Linearity	Axle Diameter
Rotary Sensor MTP rotative								
	diameter: 40 mm	> 5 Mio	- 20° – + 65°C - 40° – + 85°C - 25° – + 125°C	90°, 180°, 270°, 345° (mech. angle, continous rotation)	2,5 kΩ per 90°	TC ratio < 50 ppm/°C	± 2% – ± 5 %	hollow shaft Ø 8 mm
Special features: IP65 -flat - sealed - easy mounting by selfadhesive foil - high life cycle								


Type	Dimensions	Lifetime Cycles	Operating Temperature	Electrical Angle/Distance	Resistance Range	Temperature Dependency	Independent Linearity	Axle Diameter
Rotary Sensor Conductive Plastic HWL 60 hollow shaft								
	32 x 30 mm	> 5 Mio	- 25° – + 85°C	270° (other values on request)	1/5/10 kΩ	TC ratio < 20 ppm/°C	± 2% – ± 0,5%	hollow shaft Ø 6 mm
Special features: plastic housing - high temperature resistant - D-drive - floating mounting - numerous application								


Type	Dimensions	Lifetime Cycles	Operating Temperature	Electrical Angle/Distance	Resistance Range	Temperature Dependency	Independent Linearity	Axle Diameter
Rotary Sensor Conductive Plastic POL 120								
	diameter: 13 mm	> 3 Mio	- 25° – + 85°C	308°	10 kΩ	TC ratio < 20 ppm/°C	± 2,5%	3 mm
Special features: precise - cost efficient								


Type	Dimensions	Lifetime Cycles	Operating Temperature	Electrical Angle/Distance	Resistance Range	Temperature Dependency	Independent Linearity	Axle Diameter
Rotary Sensor Conductive Plastic POL 220								
	diameter: 22,2 mm	> 10 Mio	- 40° – + 85°C	320°	5 kΩ	TC ratio < 20 ppm/°C	± 1,5% – ± 0,25%	6 mm
Special features: metal housing - high life cycle - with switching fonction - custom specific design - mechanically rotatable - highest precision								

Type	Dimensions	Lifetime Cycles	Operating Temperature	Electrical Distance/Angle	Resistance Tolerance	Temperature Dependency	Independent Linearity	Axle Diameter
Rotary Sensor Conductive Plastic - ball bearing POL 230								
	diameter: 22,2 mm	> 20 Mio	- 40° – + 85°C	340°	5 kΩ	TC ratio < 20 ppm/°C	± 1,0% – ± 0,25%	3 mm/6 mm/ 6,35 mm
Special features: metal housing - 2x ball bearing - switching function - highest precision								

Rotary Sensor Conductive Plastic POL 200								
	diameter: 20 mm	3 Mio	- 25° – + 85°C	320°	1/5/10 kΩ	TC ratio < 20 ppm/°C	± 2,0%	6 mm
Special features: precise - cost efficient								

Potentiometer Wirewound POD 200								
	diameter: 20 mm	200.000	- 25° – + 85°C	320°	1 - 10 kΩ	TC ratio < 40 ppm/°C	± 1%	6 mm
Special features: precise - cost efficient								

Multi-turn Potentiometer Wirewound POD 2210								
	diameter: 22 mm	1 Mio	- 25° – + 85°C	360°	1 - 10 kΩ	TC ratio < 40 ppm/°C	± 0,15% – ± 0,25%	6 mm/6,35 mm
Special features: precise - cost efficient								

Rotary Sensor Elements PE								
	diameter: 12 mm min.	> 10 Mio	- 40° – + 125°C	20° - 355°	1/3/5 kΩ	TC ratio < 20 ppm/°C	< 2% - < 0,5%	-
Special features: optional linearity ± 0,25 % - custom specific design as from 500 parts								

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