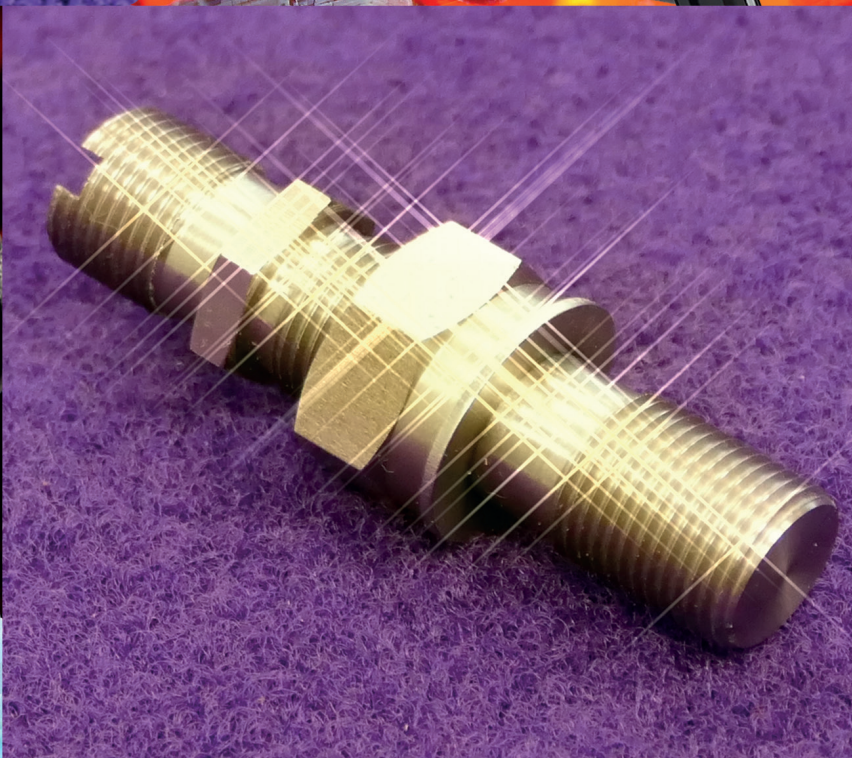
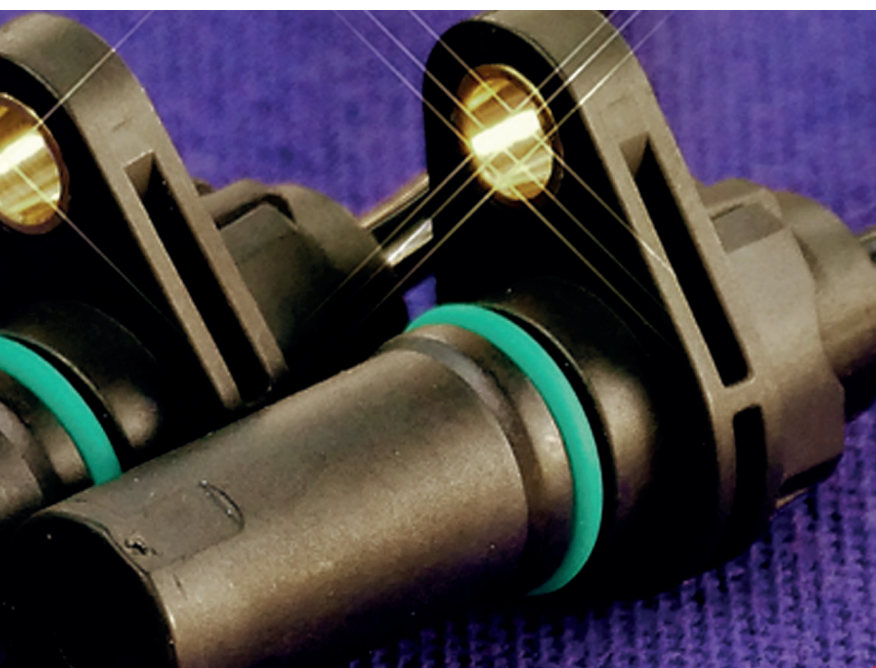


Safe measurement, indication and control of rotational speed



Position sensors

Sensors for position detection





Position sensors

Basic features

Basic mechanical features

Parameters	FP	FQ	FC	M12 high pressure
Temperature	-40 °C ... +140 °C	-40 °C ... +140 °C	-40 °C ... +125 °C	-40 °C ... +125 °C
Pressure	1,25 bar No sealing function against liquid or gaseous media	1,25 bar No sealing function against liquid or gaseous media	10 bar	> 150 bar
Degree of protection	IP65	IP67 / IP69K	IP67 / IP69K	IP67 (depending on mating plug)
Typ. length below flange	35 mm / 45 mm	30 mm / 35 mm / 45 mm	30 mm / 35 mm / 45 mm / 52 mm	-
Typ. housing length	-	-	-	58 mm
Direction of cable outlet	90°	90° ... 105° / 180°	90° / 180°	depending on mating plug
Cable length	approx. 500 mm	approx. 500 mm	approx. 500 mm	-
Connecting interface	Flying leads	Flying leads	Flying leads	M12 plug
	3 or 4 wire / pin – depending on signal requirements			
Magnetic flux density	B = 30 mT (typ.)			

Deviations from above values are possible on request.

Basic electric features

Supply voltage	5 V regulated ($\pm 0.5\%$)
Current consumption	≤ 20 mA

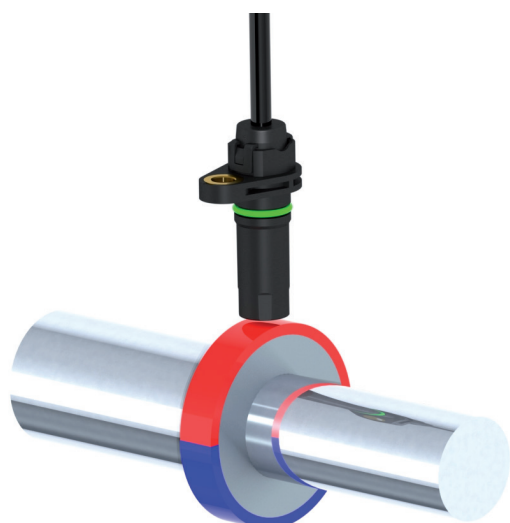
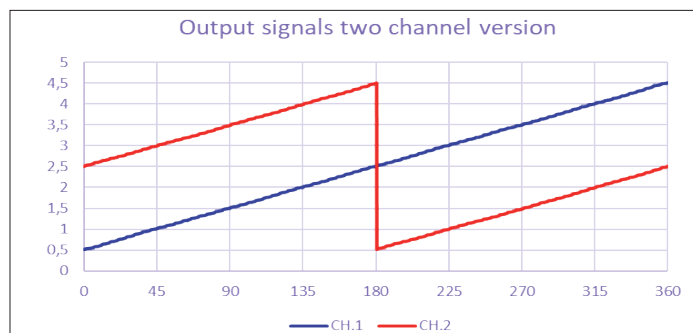
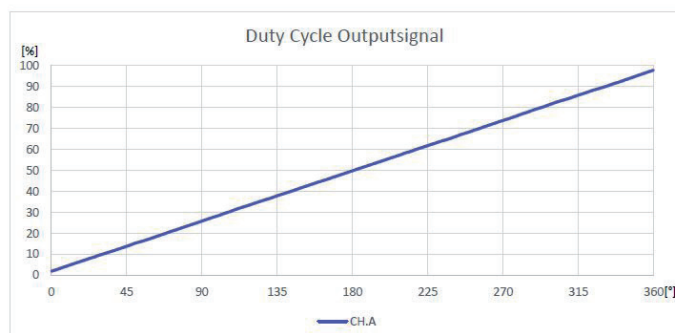


Position sensors

Detections & signals

Output signals

Output signals	Ratiometric analog signal (0.5 V ... 4.5 V) or PWM signal Dual channel option available for redundancy
Type of output signal	Absolut value – after power off/on correct absolut position immediately available
Detection	Side shaft or end of shaft / Angular position / linear position
Typ. measurement range / angle error	360° / $\pm 2^\circ$; short stroke movements possible on request



Typical application



About us

RHEINTACHO Messtechnik GmbH has been engaged since 1901 in the field of rotational speed, a crucial control quantity for mechanical processes.

The production range incorporates sensors, hand-held measuring devices, rotary encoders and switching devices.

Just over 100 employees are employed at the company's headquarters in Freiburg. In-house product development, production and assembly departments guarantee quick and innovative solutions to customers' individual requirements.

Our products are available worldwide through our subsidiaries and sales partners. With a committed and competent customer service, we ensure first-class application advice around the globe.

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