
Safe measurement, indication and control of rotational speed



Rotational speed sensors with integrated temperature sensor





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Features

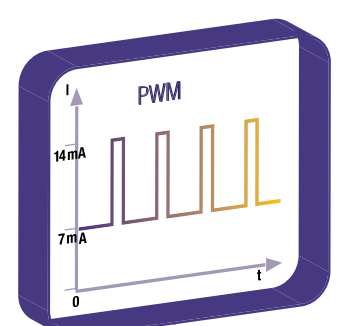
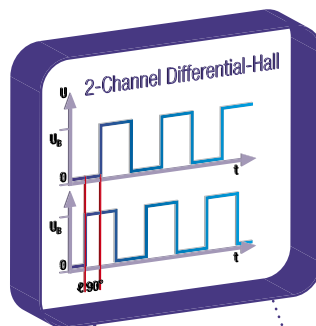
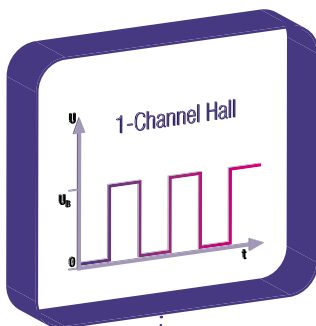
- ◆ Speed detection
- ◆ Direction detection (depending on type)
- ◆ Temperature detection
- ◆ Wide temperature range
- ◆ Wide frequency range

General informations

The latest generation of RHEINTACHO speed sensors now also offers temperature detection as a further measuring value in addition to rotational speed and direction detection, united in one sensor.

The advantages are obvious:

- ◆ Material costs: one complete sensor with its own electronics, own housing and connection interface are saved.
- ◆ Installation effort: complete elimination of one installation process.
- ◆ Design simplification: Saving an additional sensor access including all possible side effects like improving design freedom and reducing leakage opportunity.





Technical data

	1-Channel Hall M8 series	2-Channel Hall FEpwm series (on request)
Power supply	8 VDC ... 30 VDC	4.5 VDC ... 20 VDC
Frequency range	0 Hz ... 15 kHz	1 Hz ... 5 kHz
Output	Push-Pull	PWM
Operation temperature, max.	-25 °C ... +125 °C / -13 °F ... +257 °F	-40 °C ... +150 °C / -40 °F ... +302 °F
Degree of protection	IP67 (at connected plug)	IP67 / IP6K9K
Housing	M8 x 50 mm	Flange, brass
Cable length / Plug	- / 4-pin plug integrated in sensor housing, M8	1000 mm / Deutsch DT04-4P
Temperature signal	± 1.5 °C / ± 34.7 °F over the entire operating range NTC 4.7 kOhm, ±1 % @ R_{25} ; $B_{25/85}$ -Value / $B_{25/85}$ -Value: 3830 K Resistance value can be read out via Pin 2 and Pin 3.	NTC 4.7 kOhm, ±1 % @ R_{25} ; $B_{25/85}$ -Value / $B_{25/85}$ -Value: 3434 K Resistance value can be read out via Pin 3 and Pin 5.

	2-Channel Differential-Hall M12 series	2-Channel Differential-Hall FK series (on request)
Power supply	7 VDC ... 32 VDC	4.5 VDC ... 24 VDC
Frequency range	0 Hz ... 20 kHz	0.1 Hz ... 20 kHz
Output	Push-Pull	NPN
Operation temperature, max.	-40 °C ... +125 °C / -40 °F ... +257 °F	-40 °C ... +140 °C / -40 °F ... +284 °F
Degree of protection	IP67 (at connected plug)	IP65
Housing	M12 x 69,35 mm	Flange, plastic
Cable length / Plug	- / 5-pin plug integrated in sensor housing, M12	1000 mm / open leads
Temperature signal	NTC 4.7 kOhm, ±1 % @ R_{25} ; $B_{25/85}$ -Value / $B_{25/85}$ -Value: 3434 K Resistance value can be read out via Pin 3 and Pin 5.	PTC Ni1000 - R_0 : 1000 Ohm; R_{25} : 1141 Ohm; R_{100} : 1618 Ohm



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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