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Press release

Keeping an eye on rotational speed and direction with 2 channels: Differential-hall sensors from RHEINTACHO inside a high-tech plastic housing

RHEINTACHO especially caters to the electrical drive systems market with these rotational speed sensors. All models of the sensor family are equipped with the proven differential-hall technology for secure determination of rotation speed even in critical electrical and magnetic environmental conditions. The 2-channel design allows not only detection of rotational speed but also the direction of rotation.

The market for electrical drive systems in widely varying applications (e.g. industrial trucks) has been developing very dynamically in the last few years and the forecasts are also very promising. Especially in this price-sensitive market, users can have this RHEINTACHO sensor modified to suit their needs regarding both the required signals and the necessary protection class for their specific applications. A wide variety of cable lengths and connector types round off the customization options.

The sensors can be used in an extremely wide range of temperatures (up to +140 °C) due to the housings made of high-quality plastic as well as other constructive measures. The housing material used has exceptional mechanical properties. For example, compression strength and material durability reach values that already allow for substitution of metal housings depending on the respective application. Among other features, the electrical structure provides a very wide range of possible supply voltages and a high level of EMC stability. The Hall element used covers a wide frequency range and also allows for determining quasi-zero-movement.

The geometric design as a flange sensor automatically ensures the proper installation position required for good signal determination.

Within the RHEINTACHO sensor range, the user has the unique option of both upward and downward compatibility. If necessitated by environmental conditions, a RHEINTACHO sensor with higher specifications can be installed without modifying the adapter. This guarantees technical and commercial security without additional costs for new design.

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The most important features at a glance:

- 2-channel differential-hall sensor
- Housing made of high-performance plastic
- Large detection distance possible
- Wide frequency range
- Wide temperature range
- Quasi-zero-movement detection



Rotational speed sensors of the FK series from RHEINTACHO

RHEINTACHO Messtechnik GmbH is a company with longstanding tradition and has been engaged for over 114 years in the field of rotational speed, a crucial control quantity for mechanical processes. Just over 70 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. The production range incorporates a wide range of solutions of a high technical quality, principally in the field of rotational speed: sensors, hand-held measuring devices, rotary encoders and switching devices. RHEINTACHO UK Ltd, a subsidiary of the German company RHEINTACHO Messtechnik GmbH, is specialized in the production of non-electronic measurement and indication instruments as well as tacho generators, and acts as a sales and service center for the UK and Ireland.

www.rheintacho.com

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