
Safe measurement, indication and control of rotational speed



Rotational speed measurement in high pressure applications





Perfect sensors for innovative drives in construction and agricultural machinery

Features

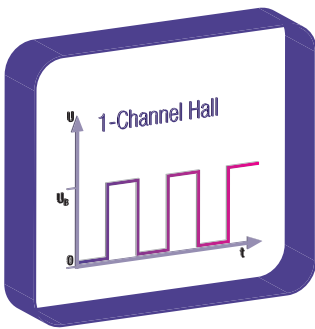
- ◆ Degree of protection: IP67 / IP6K9K
- ◆ Wide temperature range
- ◆ Wide frequency range
- ◆ Alignment required

For applications where the sensor is exposed to very high pressures, RHEINTACHO has developed two new high pressure sensors: FEhp 2-Channel for the detection of speed and direction of rotation and the FEvhp speed sensor, which withstands particularly high pressures. With both models, users have the advantage of a compact speed sensor with a mounting depth of only 14.7 millimeters and a proven heavy-duty design.

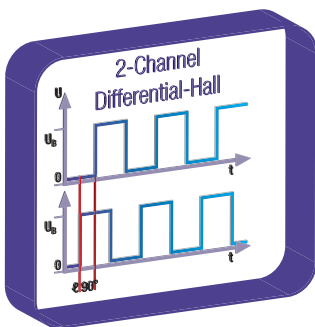
These high-pressure sensors are an extension of the FE sensor family. An intelligent flange design in combination with a perfect O-ring provides a unique long-term sealing - even at high to very high pressures. The sensors are specifically designed for use in hydraulic drives with high pressures up to 420 bar (tested according to ISO 6605:2002). The sensors meet protection classes IP6K9K and IP67.

Technical data

1-Channel Differential-Hall FE _{vhp} series	
Power supply	4.5 VDC ... 24 VDC / 7 VDC ... 32 VDC
Frequency range	0 Hz ... 20 kHz
Output	NPN
Operation temperature, max.	-30 °C ... +100 °C / -22 °F ... +212 °F Max. temperature is given by the specifications of the O-ring
Degree of protection	IP67 / IP6K9K
Max. pressure on sensing surface	Dynamic: 420 bar (6092 psi) according to ISO 6605:2002 (test pressure: 558 bar (8093 psi) / 1,000,000 cycles / 1 Hz) / Static: 558 bar (8093 psi) according to ISO 19879:2010
Insertion depth	14.7 mm
Connection	1,000 mm cable without plug (open leads)



2-Channel Differential-Hall FE _{hp} series	
Power supply	8 VDC ... 32 VDC
Frequency range	0 Hz ... 20 kHz
Output	Push-Pull
Operation temperature, max.	-30 °C ... +100 °C / -22 °F ... +212 °F max. temperature is given by the specifications of the O-ring
Degree of protection	IP67 / IP6K9K
Max. pressure on sensing surface	Dynamic: 210 bar (3046 psi) according to ISO 6605:2002 (test pressure: 280 bar (4061 psi) / 1,000,000 cycles / 1 Hz) / Static: 280 bar (4061 psi) according to ISO 19879:2010
Insertion depth	14.7 mm
Connection	1,000 mm cable without plug (open leads)



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