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Safe measurement, indication and control of rotational speed



# Rotational speed sensor for ..... hottest environments

Insertion depth  
**15 mm**





## Features

- ◆ High-tech plastic sensor with 90° phase shift
- ◆ Insertion depth: 15 mm\*
- ◆ Protection class: IP65
- ◆ Standstill detection (from 0 Hz)
- ◆ High temperature resistance

\* Other insertion depths: 35 mm, 45 mm

## General informations

The completely newly developed FP sensor series for the rotational speed and direction detection is especially suitable for use in environments with extreme temperature loads, e.g. encapsulated motors or installation situations with limited heat exchange.

The extraordinary short design of the housing, with only 15 mm insertion depth, combines intelligent and modern electronics with reliable mechanics and is therefore very well suited to withstand extreme temperature loads.

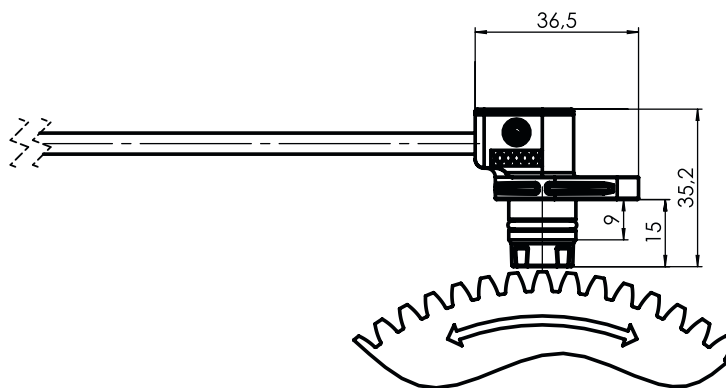
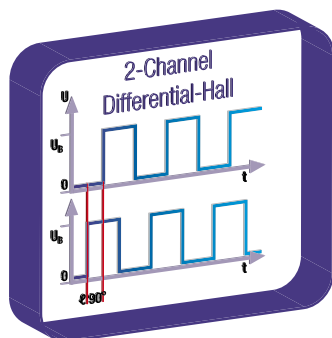
With the sensor electronics used here, the FP series offer reliable signal detection already from zero speed.

The electronics are based on the 2-Channel Differential-Hall principle and are suitable, for example, for applications in the fields of electric drives and forklift trucks.

## Technical data

### 2-Channel Differential-Hall FP series

Power supply	4.5 VDC ... 24 VDC
Frequency range	0 Hz ... 20 kHz
Output	NPN
Operation temperature, sensor (typical)	-40 °C ... +140 °C / -40 °F ... +284 °F
Operation temperature, sensor (max.)	-40 °C ... +160 °C / -40 °F ... + 320 °F (Duration: max. 1000 hours) Limitation: supply voltage 4.5 VDC ... 12 VDC
Operation temperature range (cable)	-40 °C ... +125 °C / -40 °F ... + 257 °F (Duration: max. 3000 hours)
Temperature test	1000 h @ +160 °C @ 12 VDC
Degree of protection	IP65
Insertion depth	15 mm
Connection	520 mm cable without plug (open leads)



## Contact

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