SPEED SENSORS

The speed sensors developed by ROTEC are designed for non-contact measurements of the rotational speed of a gear wheel. A ferromagnetic encoder wheel can thus be scanned. The sensors deliver high-quality signals across a broad range of requirements.

### TECHNICAL SPECIFICATIONS

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Maximum gearwheel frequency</td>
<td>20 kHz (with DSA)</td>
</tr>
<tr>
<td>Gearing</td>
<td>Ferromagnetic target wheel</td>
</tr>
<tr>
<td></td>
<td>Module 0.6 to 2.4</td>
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<tr>
<td></td>
<td>Pitch 1.9 mm to 7.7 mm</td>
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<tr>
<td>Sensing gap</td>
<td>0.5 – 2x modul [mm]</td>
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<tr>
<td>Sensor type</td>
<td>Passive, requirement of accompanying electronic unit (DSA)</td>
</tr>
<tr>
<td>Impedance/band width (with DSA)</td>
<td>Typ 4.5 kΩ / ~3dB at 6 kHz</td>
</tr>
<tr>
<td>Temperature range speed sensors</td>
<td>-15 °C to +100 °C</td>
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<tr>
<td>Temperature range high temperature sensors</td>
<td>-40 °C to +125 °C</td>
</tr>
<tr>
<td>Housing</td>
<td>Stainless steel M10x1 outer thread</td>
</tr>
<tr>
<td>Pins</td>
<td>Integrated cable with Lemo 4-pin connector (Type A)</td>
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<td></td>
<td>Separate Lemo 4-pol connector to Lemo 3-pol connector (Type B and C)</td>
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</table>

**4-FOLD SPEED SENSOR TYPE A SE4FP**

SE4FP, with integrated cable length 2 m, Thread length 60 mm
SPEED SENSOR TYPE A
SEFP001-003

SEFP001: Thread length 30mm, with integrated cable, length 1 m
SEFP002: Thread length 60 mm, with integrated cable, length 1 m
SEFP003: Thread length 90 mm, with integrated cable, length 1 m

SENSOR HEAD TYPE A

Adjustable sensor head (stainless steel) with marking for optimal orientation

Cinkle locking (stainless steel), DIN 433

Anti-vibration washer M6

Tension spring kink protection (stainless steel) D=7

Transparent heat shrink with corresponding marking for optimal orientation

Hex nut M6 (stainless steel) similar to DIN 439 B, interchangeable with ISO 8675, ISO 4035

Hex nut M6 (stainless steel) DIN 934 B, interchangeable with ISO 8673, ISO 4033

Sensor sleeve (stainless steel) outer thread M10X1 6-g

Hex nut M10X1 (stainless steel) similar to DIN 439 B, interchangeable with ISO 8675, ISO 4035

Hex nut M10X1 (stainless steel) similar to DIN 439 B, interchangeable with ISO 8675, ISO 4035

L: length | D: diameter
SPEED SENSOR TYPE B
SEFP004-009

SEFP004: Thread length 30 mm, cable incl. KAB005a (0°)
SEFP005: Thread length 30 mm, cable incl. KAB005b (90°)
SEFP006: Thread length 60 mm, cable incl. KAB005a (0°)
SEFP007: Thread length 60 mm, cable incl. KAB005b (90°)
SEFP008: Thread length 90 mm, cable incl. KAB005a (0°)
SEFP009: Thread length 90 mm, cable incl. KAB005b (90°)

HIGH TEMPERATURE SENSOR TYPE B
SEHFP001-003

SEHFP001: Thread length 30 mm with integrated cable length 2 m
SEHFP002: Thread length 60 mm with integrated cable length 2 m
SEHFP003: Thread length 90 mm with integrated cable length 2 m
SENSOR HEAD TYPE B

Hex nut M10X1 (stainless steel) similar to DIN 439 B interchangeable with ISO 8675, ISO 4035

Hex nut M10X1 (stainless steel) similar to DIN 439 B interchangeable with ISO 8675, ISO 4035

Sensor sleeve (stainless steel) outer thread M10X1 6-g

LEMO connector, female, 3-pin EGG.00.303.CL.

L: length | D: diameter
SPEED SENSOR TYPE C
SEFP010-015

SEFP010: Thread length 30 mm, cable incl. KAB005a (0°)
SEFP011: Thread length 30 mm, cable incl. KAB005b (90°)
SEFP012: Thread length 60 mm, cable incl. KAB005a (0°)
SEFP013: Thread length 60 mm, cable incl. KAB005b (90°)
SEFP014: Thread length 90 mm, cable incl. KAB005a (0°)
SEFP015: Thread length 90 mm, cable incl. KAB005b (90°)

HIGH TEMPERATURE SENSOR TYPE C
SEHFP004-006

SEHFP004: Thread length 60 mm
SEHFP005: Thread length 90 mm
SEHFP006: Thread length 30 mm
SENSOR HEAD TYPE C

- Tension spring link protection (stainless steel) Ø=7
- Hexagonal bar width across flat Ø
- Sensor sleeve (stainless steel) outer thread M10X1 f=0.5
- Hex nut M10X1 (stainless steel) similar to DIN 439 B
  interchangeable with ISO 8675, ISO 4035
- Hex nut M10X1 (stainless steel) similar to DIN 439 B
  interchangeable with ISO 8675, ISO 4035

L: length  |  D: diameter