

■ **Magneto-resistive Speed Sensor**



Versorgung	12 ... 36 V DC
Frequenzbereich	0 ... 25.000 Hz
Betriebstemperatur	-40 ... 125°C
	-40 ... 257°F
Schutzart (IEC 529), je nach Ausführung	IP67, IP68

**Data summary**

Power supply	12 ... 36 V DC
Frequency range	0 ... 25.000 Hz
Operating temperature	-40 ... 125°C
	-40 ... 257°F
Degree of protection, depending on type	IP67, IP68

- Drehzahl- und Stillstandserfassung an Maschinen und Anlagen
- Erfasst hohe Frequenzen und feinere Strukturen

**Applications**

- *Rotational speed and zero detecting*
- *Detecting high frequencies and finer structures*

- Erkennt 0 Hz
- Stillstandserfassung (Zero Speed)
- Hohe Temperaturbeständigkeit
- Heavy Duty Typen
- Richtungsabhängiger Einbau

**Features**

- *Detects 0 Hz*
- *Standstill detection*
- *high temperature resistance*
- *Heavy duty types*
- *alignment required*

■ **Type Overview**

<b>Type</b>	<b>Housing</b>	<b>Connection</b>	<b>Drawing</b>	<b>Output</b>
SMN5.GI00.SB	M12x1x50	Stecker SB <i>Plug type SB</i>	10445	NPN
SMP5.GI00.SB	M12x1x50	Stecker SB <i>Plug type SB</i>	10445	PNP
SMN5.GP00.SB	M18x1x50	Stecker SB <i>Plug type SB</i>	10566	NPN
SMP5.GP00.SB	M18x1x50	Stecker SB <i>Plug type SB</i>	10566	PNP
SMP4.GR07.01	M18x1,5x50	Stecker S <i>Plug type S</i>	10449	PNP
SMN4.GK07.T1	M14x1x90	Kabel T, 1m <i>Cable type T, 1m</i>	10458	NPN

**Cable types**

Kabel Typ T: 3x0,61mm<sup>2</sup>, geschirmt; PTFE, ≈1m, beständig gegenüber Motoren- und Dieselöl

*Cable type T: 3x0,61mm<sup>2</sup>, shielded; PTFE, ≈1m, resistant against motoroil and gazoil*

**Plug types**

Steckeradapter SB: M12-Serie

*Plug connector SB: M12-series*

Steckeradapter S: Cannon ITT Sure Seal<sup>TM</sup>

*Plug connector S: Cannon ITT Sure Seal<sup>TM</sup>*

**Scope of supply**

Sensor, 2 Kontermuttern  
*Sensor, 2 fixing nuts*

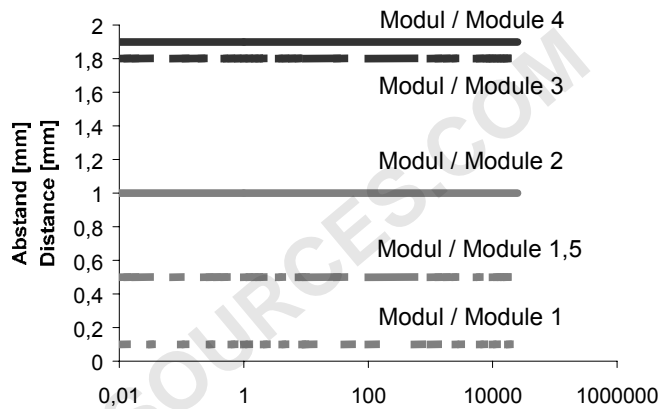


■ **Mounting**

**Air gap**

1,9mm @ 1kHz; @ Modul 4  
1.9mm @ 1kHz; @ Modul 4

**Maximum air gap related to pitch and working frequency**



**Mounting principle**

Einschraubgewinde, richtungsabhängig  
*DIN type thread, alignment required*

**Tightening torque**

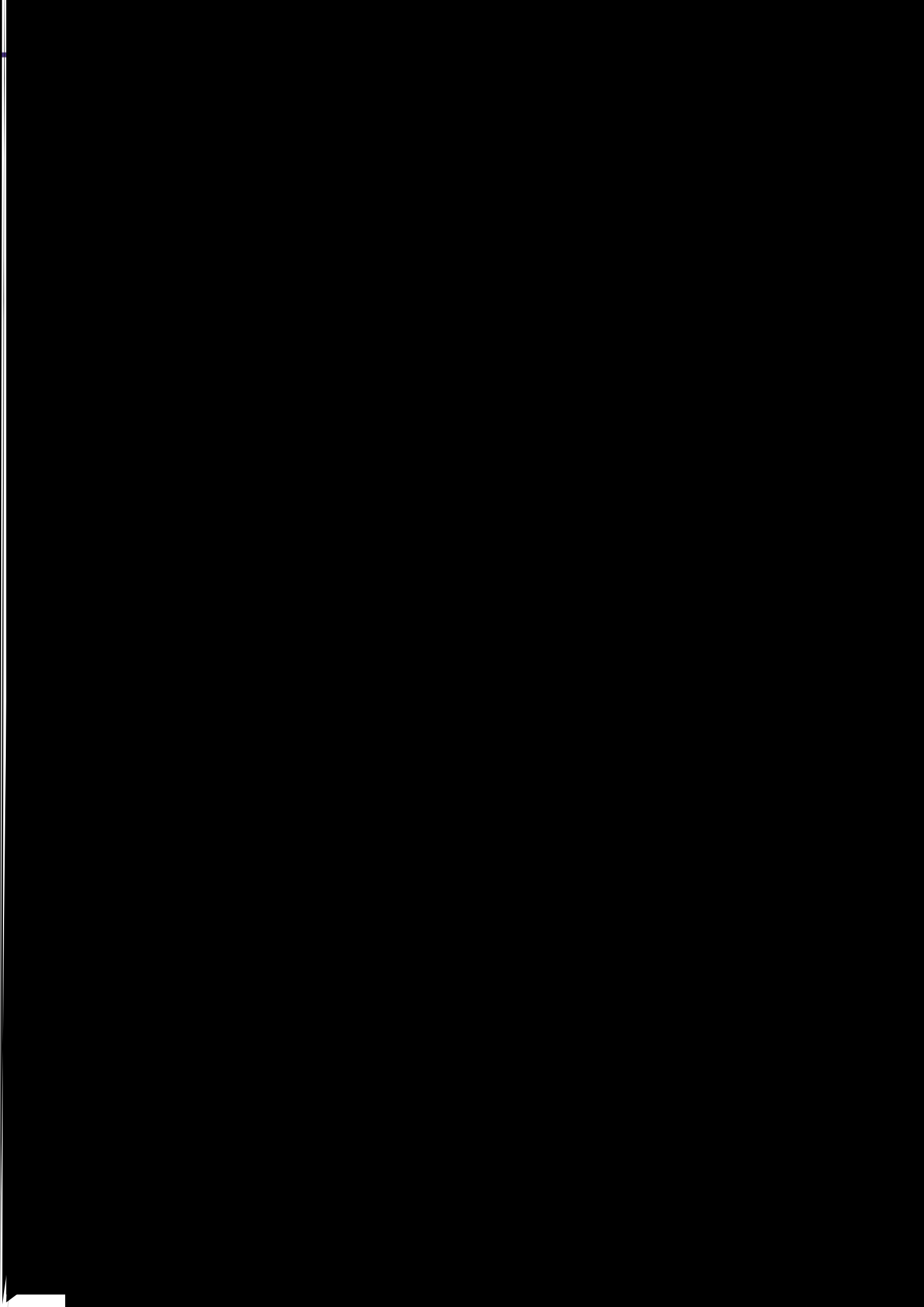
20 Nm

**Housing material**

Messing, vernickelt  
Brass, nickel plated

**Installation drawings**

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*See page 6*





■ **Environmental conditions**

<b>Operating temperature range</b>	-40° ... 125°C -40° ... 257°F
<b>Storage temperature</b>	-40° ... 125°C -40° ... 257°F
<b>Max. pressure on sensing surface</b>	5 bar (80psi) 5 bar (80psi)
<b>Degree of protection (IEC 529)</b>	IP67 IP67  Ausführung IP68 Gekapselte Gehäuseausführung und Spezialisierung der Kabelverbindung für Motoröl bis max. 90°C.  <i>Version SMN4.GK07.T1:</i> IP68 Encapsulated housing with improved insulation to resist motoroil of diesel engines with temperature up to 90°C (°F)
<b>Vibration resistance (IEC 68-2-6, IEC 68-2-26)</b>	15g @ 1...2.000Hz 15g @ 1...2,000Hz
<b>Shock resistance ( IEC 68-2-27)</b>	30g @ 11ms 30g @ 11ms
<b>EMC Standards</b>	EN 50082-2: 1995 (1.1; 1.2; 1.4; 2.1; 2.2) EN V 50140: 1993 VDE 0847 Part3 EN V 50204: 1995 VDE0847 Part5 EN 61000-4-2: 1995 VDE 0847 Part 4-2 EN 61000-4-4: 1995 VDE 0847 Part 4-4 EN 50141: 1993 VDE 0847 Part 6  EN 50581-1 : 1992 (1.1; 1.2) EN 55011 : 1992 VDE 0875 Part 11

**Approvals / Classifications**

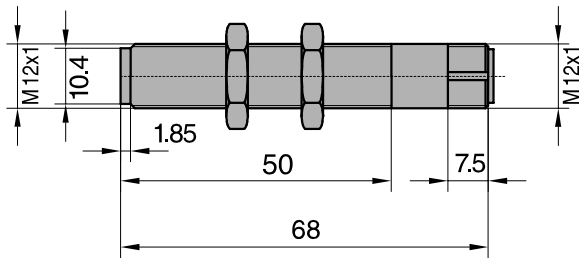


Konformitätserklärung auf Anforderung verfügbar.  
*Declaration of Conformity available on request.*

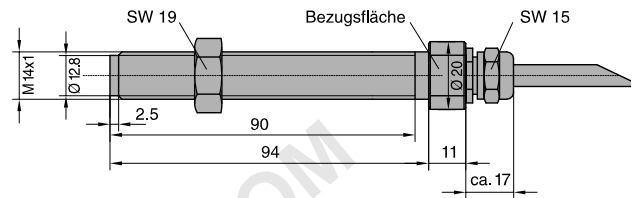


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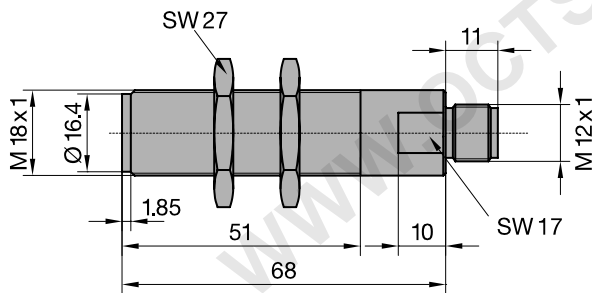
■ **Drawings**



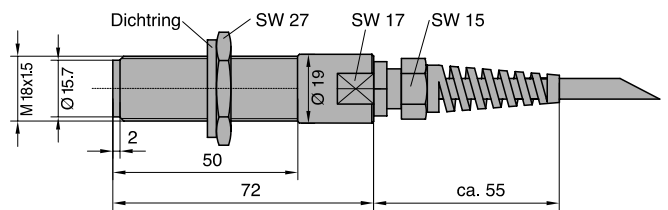
10445



10458



10566



10449

Technische Änderungen, auch ohne vorherige Ankündigung, vorbehalten. Trotz größter Sorgfalt können wir bei Fehlern keine Haftung übernehmen.

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