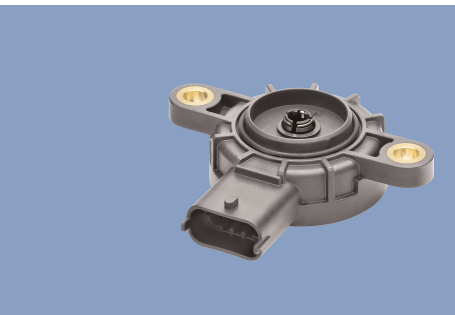


**Angle Sensor  
non-contacting**

Series RSC6600



**Special features**

- non-contacting, magnetic
- measuring range up to 360°
- high temperature range
- easy mounting
- protection class up to IP 67 (mounted with o-ring)
- long life
- good price/performance ratio

The contactless sensor utilizes the orientation of a magnetic field for the determination of the measurement angle. The magnetic field orientation is captured with an integrated circuit. An analog output signal represents the calculated angle.

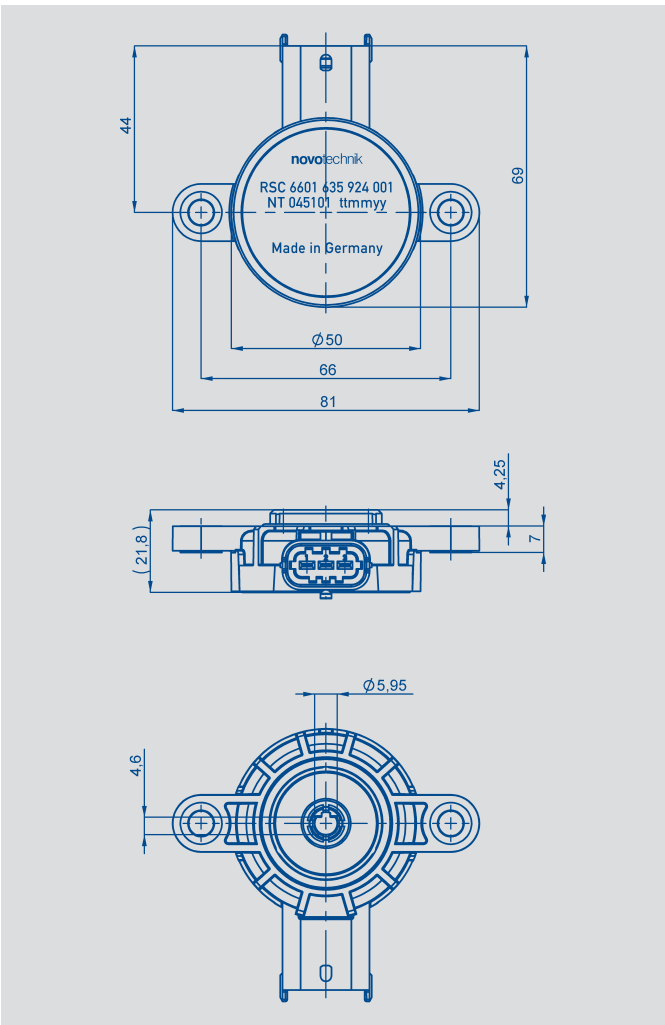
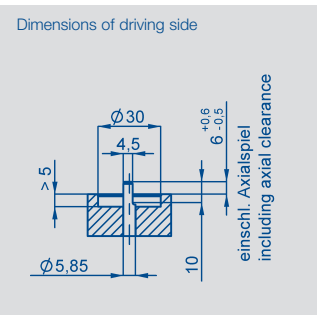
The housing is made of a special high grade temperature-resistant plastic material. Fixings with brass bushings allow simplicity of mounting.

Effective design making use of the customer-sided bearing of the insert shaft. Due to the insert shaft a fast and easy mounting is permitted.

Despite of its compact and wear-free design the sensors are very robust against environmental influences like vibrations, temperature variations, dirt and humidity. These sensors are suitable for use in all kinds of rough environment for example close to engines in automotive applications.

The 3-pin Bosch connector offers a popular and reliable plug connection.

Special models with different electrical angles and contact versions are available upon request.



Description	
Housing	high-grade, temperature-resistant plastic
Integrated shaft coupling	high-grade plastic
Electrical connections	connector (male) with 3 pins, Bosch connector 1 928 S00
Sealing	O-ring

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Mechanical Data		
Dimensions	see dimension drawing	
Mounting	2 cylinder screws M6	
Mechanical angle	360 continuous	°
Mounting torque of clamps at housing flange	8 - 10	Nm
Permitted shaft loading (axial and radial) static or dynamic force	100	N
Maximum operational speed	24	min <sup>-1</sup>
Weight	ca. 37	g
Electrical Data		
Supply voltage Ub	5 ±0.5	VDC
Ripple	Ub = 5 V -> no ripple definable in case of ratiometric output	
No-load supply current	typical 16	mA
Reverse voltage	yes, only feeder	
Short circuit protection	Signal to GND und Ub	
Measuring range	350	°
Repeatability	±0,5 (±0,15) at 350	%
Absolute linearity	±3	% FS
Output signal	ratiometric (supply voltage 5 V ±0.5 V) load ≥ 10 kΩ	
TC	typ. 70 (0...360°)	ppm/K
Environmental Data		
Temperature range	-40...+140	°C
Vibration	sinus 20...2000 Hz, 1 octave / minus 3 axes, d max. 30, 43 h per axis (= 129 h)	
		g
Protection class ISO 20653 / IEC 60529	up to IP67 (mounted with O-ring)	
Ordering specifications		
Type	Art.No.	Electr. angle
RSC6601 635 924 001	045101	350°
Other versions on request.		

### Necessary accessories

Connector (female)  
Bosch compact connector  
3-pin (p/n 1 928 403 870),  
Contacts AMP Junior Power  
Timer (p/n 9290939-3 for  
0.5 - 1 mm<sup>2</sup>),  
Mating single wire seal  
(p/n 828904),  
Cavity plug (p/n 828922).

### Recommended accessories

Process-controlled indicators  
MAP300/400/4000 with  
display.