

NOVOHALL Rotary Sensor Non-contacting

RSC-2800 SPI

Industrial









Special Features

- Non-contacting, magnetic technology
- Measuring range 360°
- Available with push-on coupling or marked shaft
- Simple mounting
- Protection class IP54, IP65, IP67
- Long life
- Very small hysteresis
- High resolution 14 bits
- Linearity < ±0.5 %
- Other configurations see separate data sheets

Applications

- Manufacturing Engineering (textile machinery, packaging machinery, sheet metal and wire machinery)
- Automation technology
- Medical engineering

The RSC-2800 sensor utilizes a contactless magnetic measurement technology to determine the measured angle. Unlike conventional Hall sensors, the orientation of the magnetic field is measured. The position information corresponding to the angular position is transmitted via a variety of analog and digital interfaces (see separate data sheets).

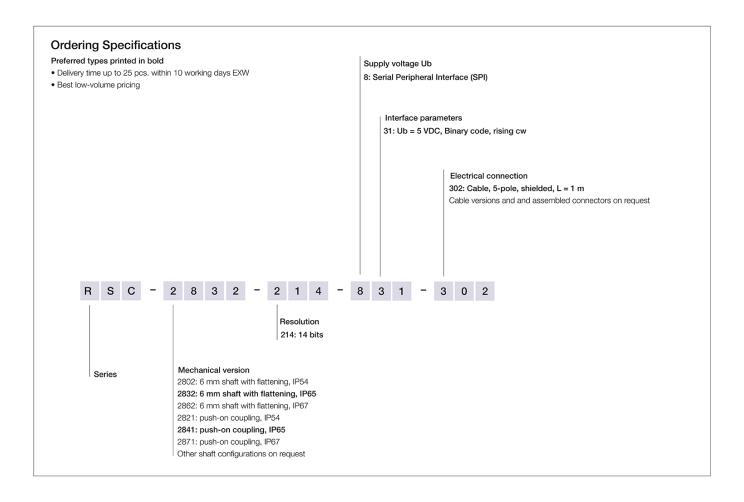
The housing is made of a special high grade temperature-resistant plastic material. Elongated slots allow simplicity in mounting together with ease of mechanical adjustment.

Three shaft options are available, including a push-on coupling option that ensures fast and simple installation.

Description	
Material	Housing: high grade, temperature resistant plastic PPS-GF40/SF50
	Shaft: stainless steel, X8CrNiS18-9 1.4305
Mounting	With 2 screws M4 and washers
Max. fastening torque	max. 180 Ncm
of mounting screws	
Bearing	Sintered bronze bushing
Electrical connection	Cable 5x 0.14 mm² (AWG 26), PUR, shielded
Mechanical Data	
Dimensions	See dimension drawing
Mechanical travel	360° continuous
Permitted shaft load	20 N (axial / radial)
static or dynamic	
Torque	0.15 Ncm (IP54), 0.5 Ncm (IP65), 1.0 Ncm (IP67)
Weight (w/o connection)	approx. 50 g

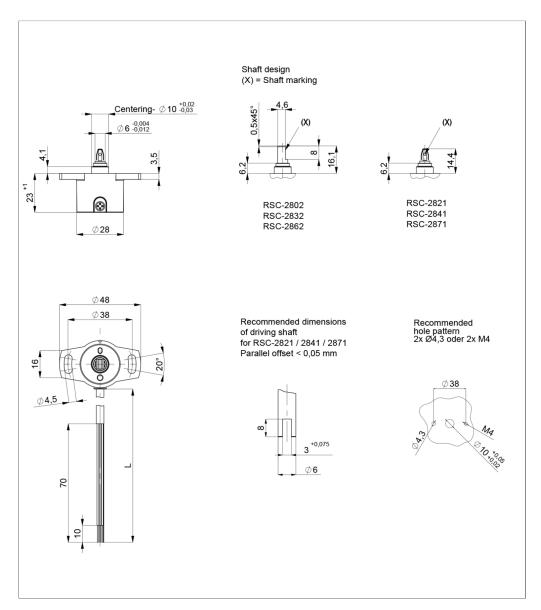


Ordering Specifications





Drawing



CAD data see www.novotechnik.de/en/download/caddata/



When the marking of the shaft is pointing towards the electrical outlet, the sensor output is near the electrical center position.



Technical Data

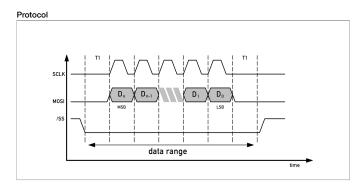
Level SCLK, MOSI, /SS TTL level (see application note SPI protocol) Update rate (internal) 5 kHz Resolution (scross 360°) 14 bits Measuring range 360° Independent linearity ≤ ±0.5 %FS Repeatability ≤ ±0.1° Hysteresis ≤ ±0.1° Temperature error ±0.625 %FS Supply voltage Ub 5 VOC (4.5 5 VDC) Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (supply lines) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MΩ Environmental Data Max. operational speed 800 rpm Max. operational speed 800 rpm Shock IEC 60068-2-27 50 g, 6 ms Protection class DIN EN 60529 IP54 / IP65 / IP67 Operating temperature 40 +85°C If you need assistance in using our products in safety-related systems, please contact us Image: Protection of the products of schemans of the protect	Туре	RSC-28214-8
Update rate (internal) 5 kHz Resolution (across 360°) 14 bits Measuring range 360° Independent linearity ≤ ±0.5 %FS Repeatability ≤ ±0.1° Hysteresis ≤ ±0.1° Temperature error ±0.625 %FS Supply voltage Ub 5 VDC (4.5 5.5 VDC) Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (supply lines) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MΩ Environmental Data x 2000 Hz, Armax = 0.75 mm Max. operational speed 800 rpm Vibration IEC 60068-2-6 20 g, 5 2000 Hz, Armax = 0.75 mm Shock IEC 60068-2-7 50 g, 6 ms Protection class DIN EN 60529 IP54 / IP65 / IP67 Operating temperature -40 +85°C Life > 50 Mio. movements (mechanic	Protocol	SPI
Resolution (across 360°) 14 bits Measuring range 360° Independent linearity ≤ ±0.5 %FS Repeatability ≤ ±0.1° Hysteresis ≤ ±0.1° Temperature error ±0.625 %FS Supply voltage Ub 5 VDC (4.5 5,5 VDC) Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (supply voltage Ub) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MΩ Environmental Data Max. Max. operational speed 800 rpm Vibration IEC 60068-2-6 20 g, 5 2000 Hz, Amax = 0.75 mm Shock IEC 60068-2-7 50 g, 6 ms Protection class DIN EN 60529 IP54 / IP65 / IP67 Operating temperature 40 +85°C Life > 500 Mio. movements (mechanically) Functional safety if you need assistance in using our products in safety-related systems, please contact us MTTF (EC 60050) 316 years EMC Compatibility 1 EN 61000-4-2 EISD (contact/air discharg	Level SCLK, MOSI, /SS	TTL level (see application note SPI protocol)
Measuring range 360° Independent linearity ≤ ±0.5 %FS Repeatability ≤ ±0.1° Hysteresis ≤ ±0.1° Temperature error ±0.625 %FS Supply voltage Ub 5 VDC (4.55.5 VDC) Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (vs. GND and supply voltage Ub) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MΩ Environmental Data Strong (500 MSc-2-6) Max. operational speed 800 rpm Vibration IEC 60088-2-6 20 g, 5 2000 Hz, Amax = 0.75 mm Shock IEC 60088-2-7 50 g, 6 ms Protection class DIN EN 60529 PS4 / IP65 / IP67 Operating temperature -40 +85°C Life > 50 Mio. movements (mechanically) Functional safety If you need assistance in using our products in safety-related systems, please contact us MTTF (IEC 60050) 316 years EMC Compatibility If No. 8 k1000-4-4 ESD (contact/air discharge) 4 kV, 8 kV EN 61000-4-4 Fast transien	Update rate (internal)	5 kHz
Independent linearity	Resolution (across 360°)	14 bits
Repeatability ≤ ±0.1° Hysteresis ≤ ±0.1° Temperature error ±0.625 %FS Supply wortage Ub 5 VDC (4 5 5.5 VDC) Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (supply lines) Short circuit protection yes (vs. GND and supply voltage Ub) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MΩ Environmental Data *** Max. operational speed 800 rpm Vibration IEC 60068-2-6 20 g, 5 2000 Hz, Amax = 0.75 mm Shock IEC 60068-2-7 50 g, 6 ms Protection class DIN EN 60529 IP54 / IP65 / IP67 Operating temperature -40 +85°C Life > 50 Mio. movements (mechanically) Functional safety If you need assistance in using our products in safety-related systems, please contact us MTTF (IEC 60050) 316 years EMC Compatibility ** EN 61000-4-2 ESD (contact/air discharge) 4 kV, 8 kV EN 61000-4-8 Expert related transients (burst) 1 kV <td>Measuring range</td> <td>360°</td>	Measuring range	360°
Hysteresis ≤ ±0.1° Temperature error ±0.625 %FS Supply voltage Ub 5 VDC (4.5 5.5 VDC) Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (supply lines) Short circuit protection yes (supply lines) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MΩ Environmental Data Max. operational speed 800 rpm Voltration IEC 60068-2-6 20 g, 5 2000 Hz, Amax = 0.75 mm Shock IEC 60068-2-27 50 g, 6 ms Protection class DIN EN 60529 IPS4 / IPS6 / IPS7 Operating temperature -40 +85°C Life > 50 Mio. movements (mechanically) Functional safety If you need assistance in using our products in safety-related systems, please contact us MTTF (IEC 60050) 316 years EMC Compatibility EN 61000-4-2 ESD (contact/air discharge) 4 kV, 8 kV EN 61000-4-3 Electromagnetic fields (IFFI) 10 V/m EN 61000-4-8 Magnetic fields 3 A/m	Independent linearity	≤ ±0.5 %FS
Temperature error ±0.625 %FS Supply voltage Ub 5 VDC (4.5 5.5 VDC) Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (supply lines) Short circuit protection yes (supply lines) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MΩ Environmental Data Max. operational speed 800 rpm Vibration IEC 60068-2-6 20 g, 5 2000 Hz, Amax = 0.75 mm Shock IEC 60068-2-27 50 g, 6 ms Protection class DIN EN 60529 IP54 / IP65 / IP67 Operating temperature -40 +85°C Life > 50 Mio. movements (mechanically) Functional safety If you need assistance in using our products in safety-related systems, please contact us MTTF (IEC 60050) 3 levers ENC Compatibility EN 61000-4-2 ESD (contact/air discharge) 4 kV, 8 kV EN 61000-4-3 Electromagnetic fields (IPT) 10 V/m EN 61000-4-5 Cond. disturbances (IHF fields) 10 V /eff. EN 61000-4-6 Cond. disturbances (IHF fields) 10 V eff. EN 61000-4-8 Magnetic fields 3 A/m	Repeatability	≤ ±0.1°
Supply voltage Ub 5 VDC (4.5 5.5 VDC) Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (w. GND and supply voltage Ub) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MQ Environmental Data Max. operational speed 800 rpm Vibration IEC 60068-2-6 20 g, 5 2000 Hz, Amax = 0.75 mm Shock IEC 60068-2-7 50 g, 6 ms Protection class DIR N 60529 IP54 / IP65 / IP67 Operating temperature 40 +85°C Life > 50 Mio. movements (mechanically) Functional safety If you need assistance in using our products in safety-related systems, please contact us MITTF (IEC 60050) 316 years EMC Compatibility EMC Compatibility EN 61000-4-2 ESD (contact/air discharge) 4 kV, 8 kV EN 61000-4-3 Electromagnetic fields (FF) 10 V/m EN 61000-4-6 Ond. disturbances (HF fields) 10 V eff. EN 61000-4-6 Magnetic fields 3 A/m	Hysteresis	≤±0.1°
Current consumption w/o load typ. 15 mA Polarity protection yes (supply lines) Short circuit protection yes (w. GND and supply voltage Ub) Max. clock rate 400 kHz Insulation resistance (500 VDC) ≥ 10 MΩ Environmental Data Max. operational speed 800 rpm Max. operational speed 800 rpm Vibration IEC 60068-2-6 20 g, 5 2000 Hz, Amax = 0.75 mm Shock IEC 60088-2-27 50 g, 6 ms Protection class DIN EN 60529 IP54 / IP65 / IP67 Operating temperature -40 +85°C Life > 50 Mio. movements (mechanically) Functional safety If you need assistance in using our products in safety-related systems, please contact us MTTF (IEC 60050) 316 years EMC Compatibility EN 61000-4-2 ESD (contact/air discharge) 4 kV, 8 kV EN 61000-4-2 ESD (contact/air discharge) 4 kV, 8 kV EN 61000-4-3 Electromagnetic fields (RFI) 10 V/m EN 61000-4-6 Cond. disturbances (HF fields) 10 V eff. EN 61000-4-8 Magnetic fields 3 A/m	Temperature error	±0.625 %FS
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Max. operational speed 800 rpm Vibration IEC 60068-2-6 20 g, 5 2000 Hz, Amax = 0.75 mm Shock IEC 60068-2-27 50 g, 6 ms Protection class DIN EN 60529 IP54 / IP65 / IP67 Operating temperature -40 +85°C Life > 50 Mio. movements (mechanically) Functional safety If you need assistance in using our products in safety-related systems, please contact us MTTF (IEC 60050) 316 years EMC Compatibility EN 61000-4-2 ESD (contact/air discharge) 4 kV, 8 kV EN 61000-4-3 Electromagnetic fields (RFI) 10 V/m EN 61000-4-6 Cond. disturbances (HF fields) 10 V eff. EN 61000-4-8 Magnetic fields 3 A/m	Insulation resistance (500 VDC)	≥ 10 MΩ
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EN 61000-4-4 Fast transients (burst) 1 kV EN 61000-4-6 Cond. disturbances (HF fields) 10 V eff. EN 61000-4-8 Magnetic fields 3 A/m		
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EN 61000-4-8 Magnetic fields 3 A/m	EN 61000-4-4 Fast transients (burst)	
	EN 61000-4-6 Cond. disturbances (HF fields	s) 10 V eff.
EN 55011 Noise radiation Class B	EN 61000-4-8 Magnetic fields	
	EN 55011 Noise radiation	Class B

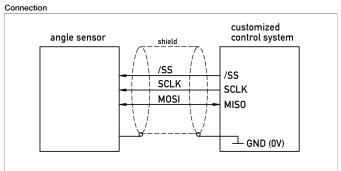
Connection Assignment

Signal	Cable
	code 3
Supply voltage Ub	GN
GND	BN
MOSI / MISO	YE
SCLK	GY
/SS (slave select)	WH
	Connect cable shielding to GND



Technical Data

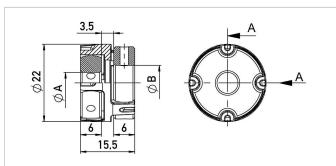






Sensor Mounting





7-106-G-

Backlash-free, double cardanic shaft coupling for \emptyset 6 mm to \emptyset 6 mm, \emptyset 6.35 mm or \emptyset 10 mm, mounting via 2 threaded pins with internal

hexagon

 $\begin{array}{ll} \mbox{Material} & \mbox{Aluminium, PEEK} \\ \mbox{Operating temp.} & -40 \dots +160 ^{\circ} \mbox{C} \\ \mbox{Transferable} & \leq 1 \mbox{ Nm} \end{array}$

torque

 Displacement
 rad. ≤ 0.1 mm, angl. ≤ 0.45°

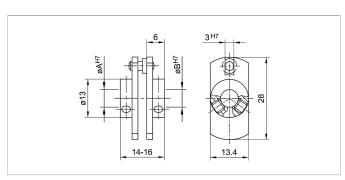
 P/N
 Type
 ØA / ØB [mm]

 400103910
 Z-106-G-6
 6 / 6

 400103912
 Z-106-G-6,35
 6 / 6.35

 400103913
 Z-106-G-10
 6 / 10





Z-104-G-6

Fork coupling with low backlash for Ø6 mm. Mounting with 2 cylinder head screws M3 with internal hexagon.

Angle screwdriver DIN 911 AF 1.5 included in

delivery.

Material Stainless Steel, driving pin

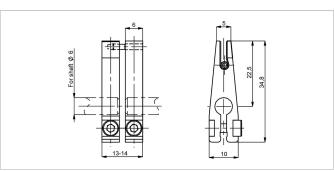
polished

Displacement ≤ 1 mm

 P/N
 Type
 ØA / ØB [mm]

 400005690
 Z-104-G-6
 6 / 6





Z-105-G-6

Backlash-free fork coupling for Ø6 mm. Mounting with 1 cylinder head screw M3 with internal hexagon.

Angle screwdriver DIN 911 AF 2.5 included in

delivery. Material

Aluminium, anodized (black)

Driving pin and spring

hardened ≤ 5 Ncm

Transferable torque

Displacement ≤ 1 mm

P/N Type 400005691 Z-105-G-6



Connecting Options on request



M12 connector

- Customized lengths
- 3-, 4-, 6- and 8-pole versions
- Protection class IP68
- Ordering codes of standard versions see ordering specifications



Molex Mini Fit jr.

- Customized length and lead wires
- 3-, 4- and 6-pole versions
 On request



Tyco AMP Super Seal

- Pin- and bushing housing
- Customized lengths
- 3-, 4- and 6-pole versions
- Protection class IP67
- On request



- Molex Mini Fit jr.

 Customized length and lead wires

 3-, 4- and 6-pole versions



Deutsch DTM 04

- Pin- and bushing housing
 Customized lengths
 3-, 4- and 6-pole versions

- Protection class IP67
- On request



ITT Cannon Sure Seal connector

- Customized lengths
- 3-, 4- and 6-pole versions



- Protection class IP67



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