Speed Sensor

GS82 series

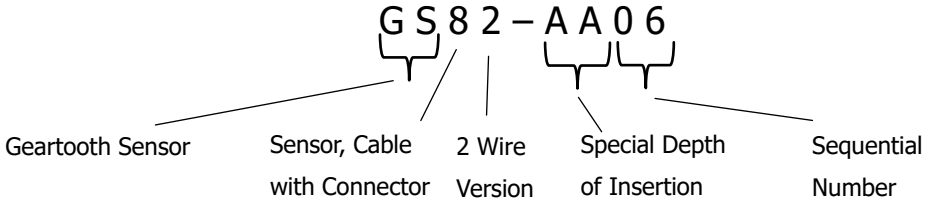
Features

- Hall based non-contact and solid-state sensor
- Virtually unlimited life, no wear and tear from friction
- Immune to vibration, shock, dirt or water for an improved functional safety especially for pedelecs, s-pedelecs and e-scooter
- Available standard product with Higo connector
- Flexibility in terms of cable length and connector assemblies
- High resolution in combination with speed and brake disk especially for slow speeds (e.g. hill starts) and improved manipulation resistance / robustness.
- Best suitable also for ABS systems
- Customized versions on request

Standard parts

Part Number	Shaft Length	Connection Type	Mounting Flange Design
GS82-AA06	13 mm	Wire harness 2 x 0.14 mm²	Round hole

Order code



Electrical characteristics

Supply voltage	6.5 – 20 V DC
Signal output I_{low}	$7_{+1,4/-1,1}$ mA
Signal output I_{high}	$14_{+2,8/-2,2}$ mA
Operating frequency	1 – 2.5 kHz

Mechanical characteristics

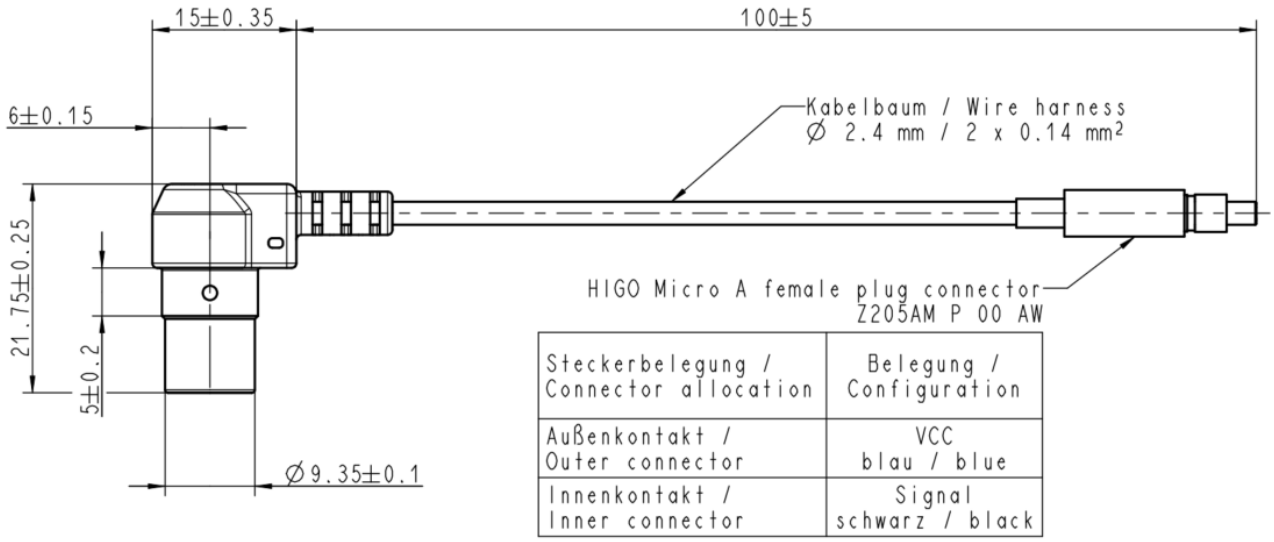
Air gap	0.4 – 1.8 mm (dependent on target wheel and orientation angle) (Air gap tested with ZF target wheel)

Operating conditions

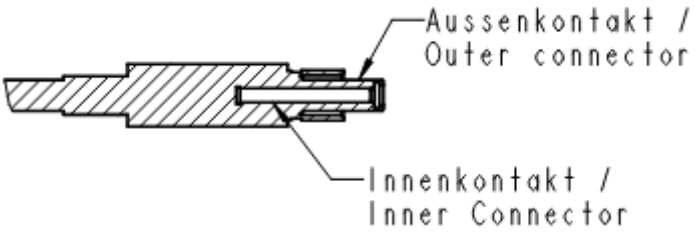
Operating temperature	-25 °C – 85 °C
Immersion protection	IP67

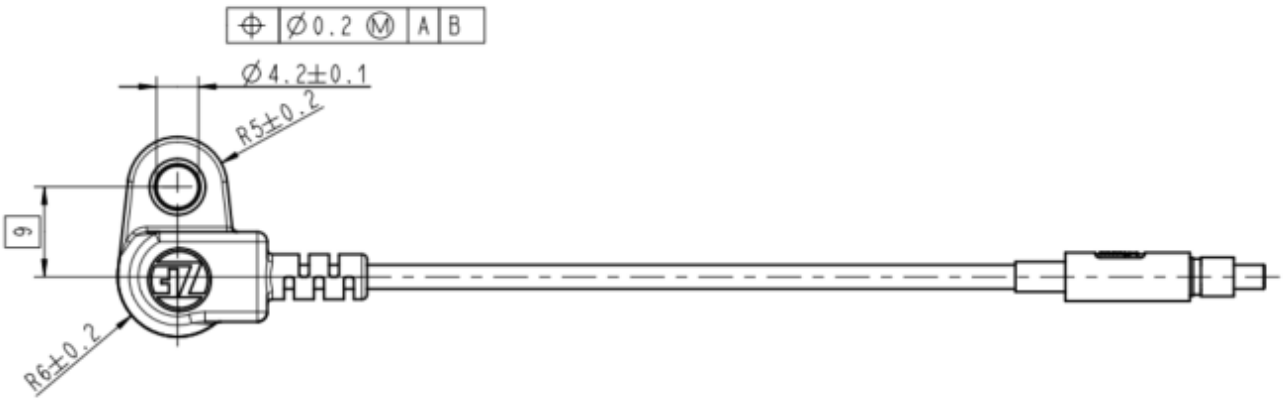
Dimensions in mm

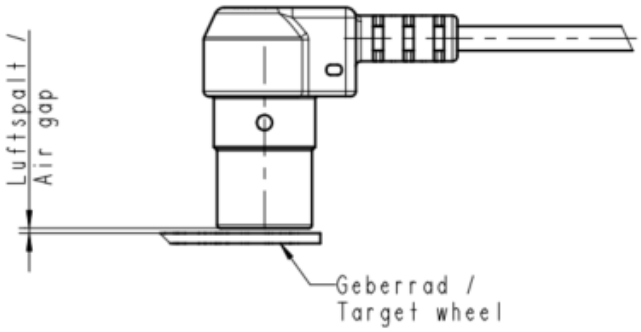
GS82-AA06

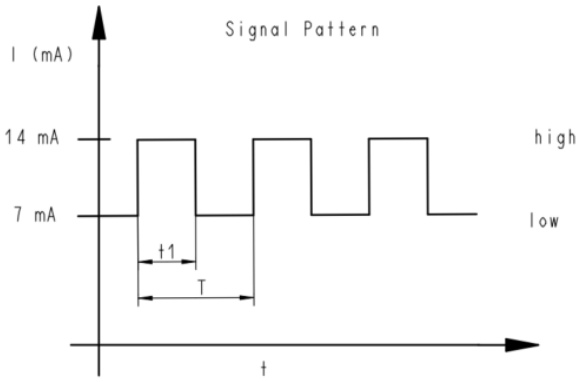
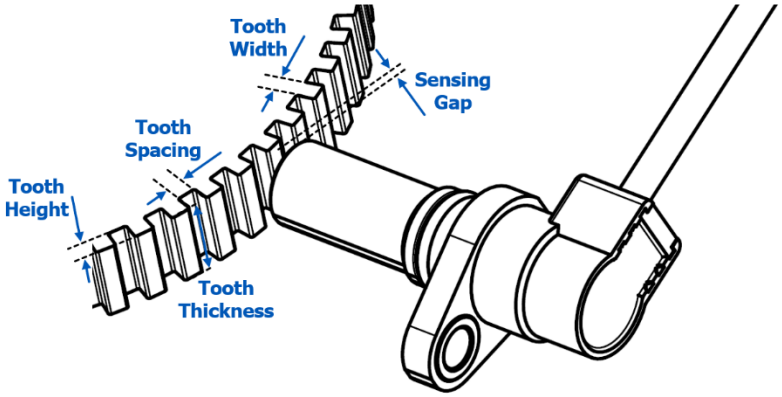


Steckerbelegung / Connector allocation	Belegung / Configuration
Außenkontakt / Outer connector	VCC blau / blue
Innenkontakt / Inner connector	Signal schwarz / black









Installation