

Magnetic gear wheel encoder RGM2G-A with analog sin/cos 1Vpp output signals



Contactless incremental encoder for measuring rotary motion

- High-resolution measurement of rotational speed and rotational angle up to 100,000 RPM
- Robust, not sensitive to dirt
- Temperature stability up to 110°C
- High EMC and ESD stability (up to 30kV)
- Use in drive spindles of machine tools
- "safety integrated" certified

Data logger, PuV interface, condition monitoring

- PuV interface for communication with the encoder over the connection cable
- Electronic type label and operating hours counter
- Monitoring (data logger) of revolution speed, encoder temperature etc.
- Storage of user information
- Automatic self-calibration of signal parameters
- Automatic stabilisation of signal amplitudes

Output signals

- Analog, SIN and COS signals with 1Vpp
- Reference signal

Principle of measurement

- Magnetic, contactless gauging of the steel gear wheels with module $M = 0.3, 0.32, 0.4$ or 0.5
- Use of magneto-resistive (GMR) sensor elements

Design

- Robust metal sensor housing
- Front cover of the sensor elements using metal foil for additional mechanical and ESD protection
- Shielded connection cable with AWG28
- Optional connecting kit

RGM2G-A...-...3

... for gear wheel module $M = 0.3$

RGM2G-A...-...4

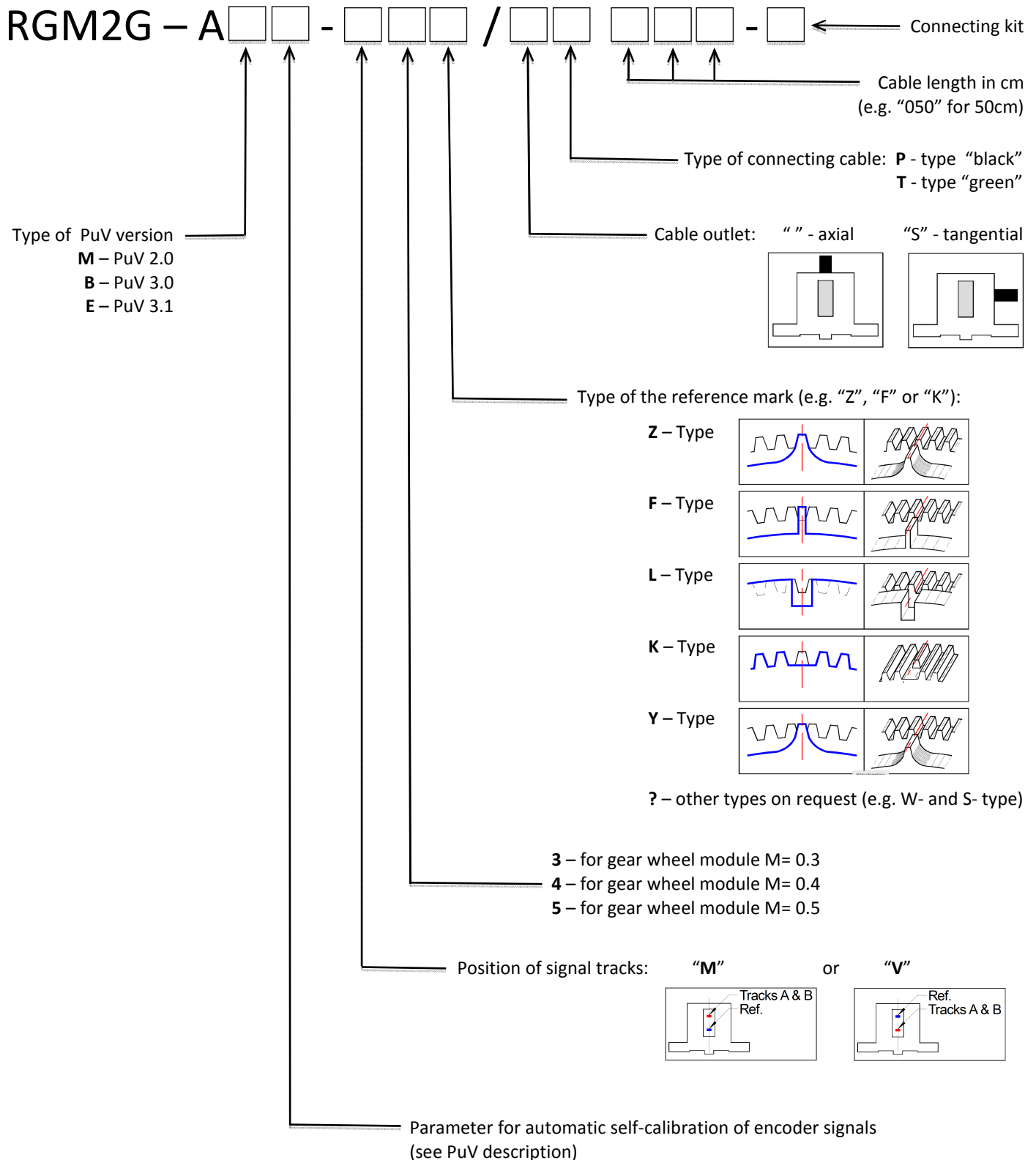
... for gear wheel module $M = 0.4$

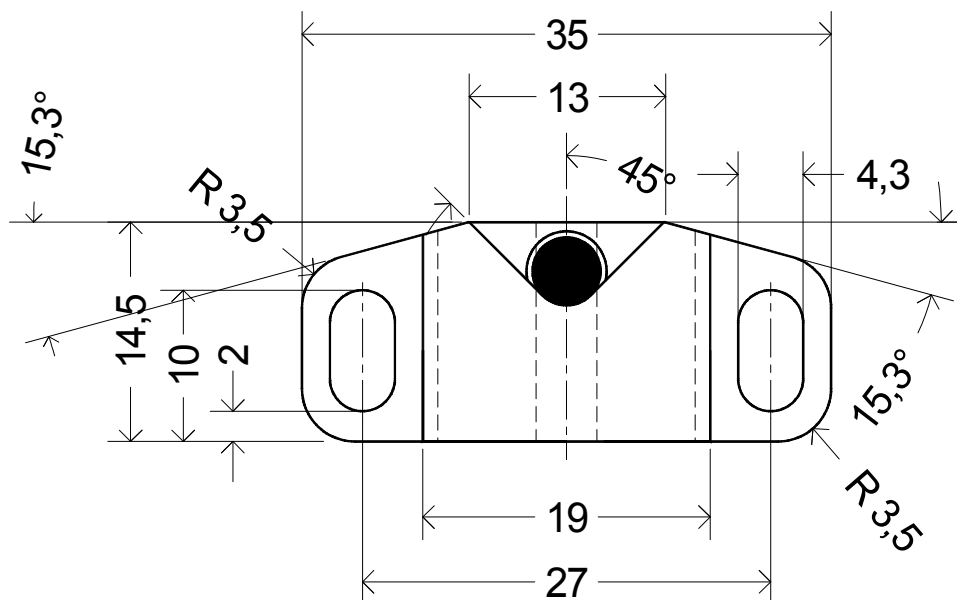
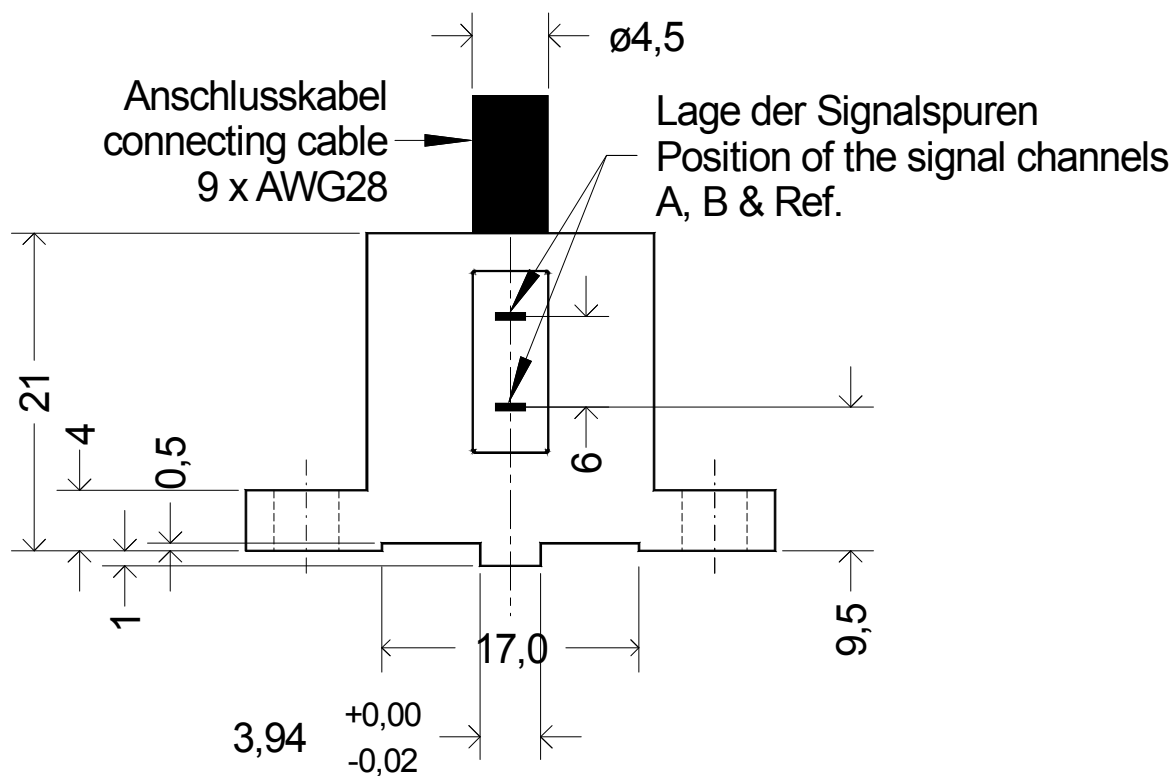
RGM2G-A...-...5

... for gear wheel module $M = 0.5$

Magnetic gear wheel encoder RGM2G-A

Ordering code





Material	Allgemeintoleranzen	Dateiname RGM_ax	Datum 27.10.09	Maßstab 2:1
VS Sensorik GmbH		RGM2G-A ... /...		
		09VS042701	Version 2	Blatt 1

