




**Electrical Data**

Supply Voltage	4.5 - 5.5 VDC
Power Consumption	≤ 0.7 W
Clock Input	RS422
Clock Frequency	300 kHz - 1 MHz
Reverse Polarity Protection	No
Short Circuit Protection	No
EMC: Emitted Interference	The kit encoder is a sub-assembly and not to be considered an independent system. Therefore, compliance with CE requirements has to be ensured by the integrator for the overall set-up.
Max. Permissible Electric Speed	12000 1/min
EMC: Noise Immunity	The kit encoder is a sub-assembly and not to be considered an independent system. Therefore, compliance with CE requirements has to be ensured by the integrator for the overall set-up.
MTTF	20 years @ 40 °C

**Sensor**

Technology	Magnetic
Resolution Singleturn	17 bit
Resolution Multiturn	16 bit
Accuracy (INL)	±0.0878° (≤12 bit)
Code	Binary

**Environmental Specifications**

Protection Class (Housing)	IP10
Min Temperature	-40 °C (-40 °F)
Max Temperature	+105 °C (221 °F)

**Mechanical Data**

Housing	Preassembled
Housing Material	Steel
Housing Coating	Cathodic corrosion protection (>720 h salt spray resistance)
Shaft Type	Hub
Kit Shaft Dimension	4 mm
Shaft Material	Brass
Shaft Fastening Options	Shaft Pressed

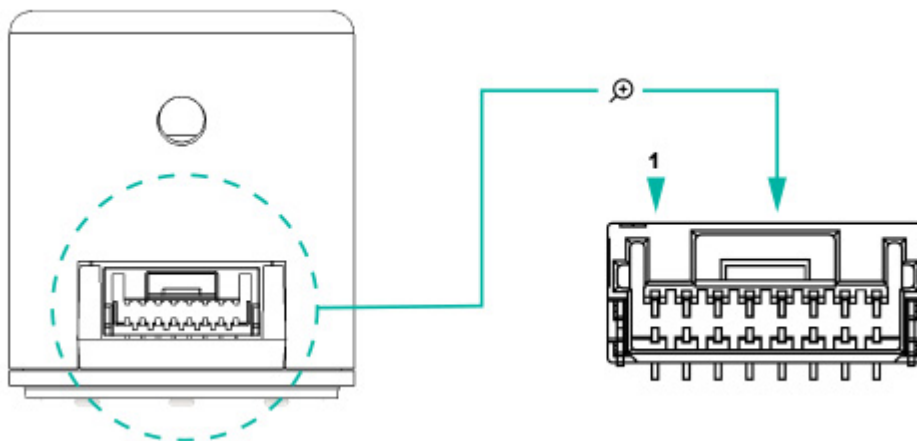
Data Sheet

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Weight	0 (0.00 lb)
Rotor Inertia	$\leq 2 \text{ gcm}^2$ [ $\leq 0.01 \text{ oz-in}^2$ ]
Shock Resistance	$\leq 200 \text{ g}$ (half sine 6 ms, EN 60068-2-27)
Permanent Shock Resistance	$\leq 20 \text{ g}$ (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	$\leq 30 \text{ g}$ (10 Hz - 1000 Hz, EN 60068-2-6)

### Certification

Approval	No CE
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### Connection Plan

SIGNAL	PIN NUMBER
GND	1
Preset	2
Config	3
Data+	4
Data-	5
Clock-	6
Clock+	7
Power Supply	8

Connector-View on Encoder

### Dimensional Drawing

[2D Drawing](#)



**Got questions? Need an individual solution? We are here to help!**



Contact Us

The picture and drawing are for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. All dimension in [inch] mm. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.