



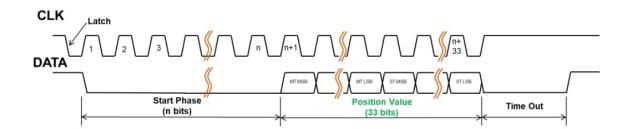
# **Kit Encoder**

# KCD-S1X3B-1617-JP4F-GRQ



#### Interface

Interface	SSI
Manual Functions	Preset via cable or connector
Interface Cycle Time	≥ 50 µs
SSI Format	0000000MMMMMMMMMMMMMMMSSSSSSSSSSSSSSSS
Diagnostics	Error and Warning Bits, Register Values
Programming Functions	Via config pin: calibration, WIEGAND sensor test, filter selection, preset value, temperature
Remarks	Version 33 or 43: µC STM32G4 or STM32F3



RS422
BM08B-NSHSS-TBT (JST)

Data Sheet Printed at 18-01-2023 20:01





### **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. Permissable 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
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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	Preassembled
Mechanical Data Housing	Preassembled Steel
Mechanical Data Housing Housing Material	
<b>Mechanical Data</b> Housing Housing Material Housing Coating	Steel Cathodic corrosion protection (>720 h salt spay
Mechanical Data Housing Housing Material Housing Coating Shaft Type	Steel Cathodic corrosion protection (>720 h salt spay resistance)
Mechanical Data Housing Housing Material Housing Coating Shaft Type Kit Shaft Dimension Shaft Material	Steel Cathodic corrosion protection (>720 h salt spay resistance) Hub

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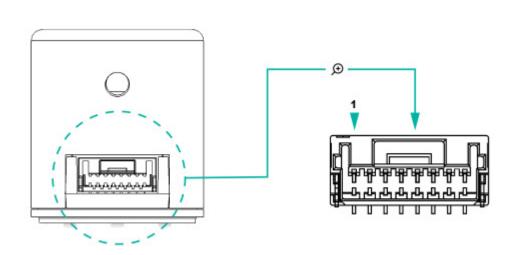


Weight	0 (0.00 lb)
Rotor Inertia	$\leq 2 \text{ gcm}^2 [\leq 0.01 \text{ oz-in}^2]$
Shock Resistance	≤ 200 g (half sine 6 ms, EN 60068-2-27)
Permanent Shock Resistance	≤ 20 g (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	≤ 30 g (10 Hz - 1000 Hz, EN 60068-2-6)

## Certification

Approval

No CE



## **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.