

PRODUCT DATASHEET

ES-EN-C13-S023-B50

Industrial Sensing Component

Hollow Magnetic Encoders | 67 mm Compact-Profile Hollow Magnetic Encoder Series

Product Overview

Industrial Sensing Component with accuracy 0.05°, axis count 1 and battery Mode Current 35 µA.

Key Specifications

PARAMETER	VALUE	UNIT
Accuracy	0.05	°
Axis count	1	
Battery Mode Current	35	µA
Battery Supply	2.7 to +3.6	V
Bore diameter	50	mm
Current Consumption	60	mA
Installation Method	Axial hollow	
Encoder Type	Absolute Magnetic Encoder	
FPC Connection Available	Yes / 1	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Accuracy	0.05	°
Documented speed threshold	20000	rpm
Maximum Rotation Speed	20000	rpm
Temperature Drift	0.01	° per 3 °C
Update Frequency	27	kHz
Angle Resolution Options	16 or 17	bit
Repeatable Accuracy	0 to ±1	bit
ELECTRICAL		
Battery Mode Current	35	µA
Current Consumption	60	mA
FPC Connection Available	Yes / 1	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Wire-to-Board Connection Available	No / false	
Battery Supply	2.7 to +3.6	V
Startup Time	15	ms
Supported Output Interfaces	SSI; BiSS-C; RS485; RS422; T485; BUS; PERIOD	
Power Supply	4.5 to +5.5	V
MECHANICAL		
Bore diameter	50	mm
Mechanical profile	Compact Profile	
Stator outside diameter	67	mm
Series Size	50	mm class
Rotor Inner Diameter	50	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Stator Mounting Pitch Diameter	63	mm
Overall Thickness	7	mm
Stator Shield Outer Diameter	60	mm
Mechanical Configuration	Compact	
Stator Outer Diameter	67	mm
ENVIRONMENTAL		
Operating Temperature Options	-40 to 85; -40 to 105; -40 to 125	°C
CONFIGURATION		
Installation Method	Axial hollow	
Encoder Type	Absolute Magnetic Encoder	
ADDITIONAL SPECIFICATIONS		
Axis count	1	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Bore diameter	50	mm
Mechanical profile	Compact Profile	
Stator outside diameter	67	mm
Series Size	50	mm class
Rotor Inner Diameter	50	mm
Stator Mounting Pitch Diameter	63	mm

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.