PRODUCT DATASHEET

ES-EN-C13-S025-B53

Industrial Sensing Component

Hollow Magnetic Encoders | 72 mm Compact-Profile Hollow Magnetic Encoder Series

Product Overview

Industrial Sensing Component with angular Accuracy ±0.05 °, battery Mode Current approximately35 / 35 µA and battery Supply 2.7 to 3.6 V.

Key Specifications

PARAMETER	VALUE	UNIT
Angular Accuracy	±0.05	°
Battery Mode Current	approximately35 / 35	µA
Battery Supply	2.7 to 3.6	V
Current Consumption	approximately60 / 60	mA
Installation Method	Axial hollow	
Encoder Type	Absolute Magnetic Encoder	
Operating Temperature Options	-40 to 85; -40 to 105; -40 to 125	°C
Overall Thickness	7	mm
Power Supply	4.5 to 5.5	V

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Maximum Rotation Speed	>20000 / 20000	rpm
Update Frequency	27	kHz
Angle Resolution Options	16 or 17	bit
Repeatable Accuracy	0 to ±1	bit
Temperature Drift	±0.01 / 0.01	° per 3 °C
Angular Accuracy	±0.05	°
ELECTRICAL		
Battery Mode Current	approximately35 / 35	µA
Battery Supply	2.7 to 3.6	V
Current Consumption	approximately60 / 60	mA
Startup Time	15	ms
Supported Output Interfaces	SSI; BiSS-C; RS485; RS422; T485; BUS; PERIOD	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Power Supply	4.5 to 5.5	V
MECHANICAL		
Series Size	55	mm class
Rotor Inner Diameter	53	mm
Stator Mounting Pitch Diameter	68	mm
Overall Thickness	7	mm
Stator Shield Outer Diameter	65	mm
Mechanical Configuration	Compact	
Stator Outer Diameter	72	mm
INTERFACES		
Encoder Type	Absolute Magnetic Encoder	
ENVIRONMENTAL		
Operating Temperature Options	-40 to 85; -40 to 105; -40 to 125	°C
CONFIGURATION		
Installation Method	Axial hollow	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Series Size	55	mm class
Rotor Inner Diameter	53	mm
Stator Mounting Pitch Diameter	68	mm
Overall Thickness	7	mm
Stator Shield Outer Diameter	65	mm
Mechanical Configuration	Compact	

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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.