

PRODUCT DATASHEET

ES-SN-C18-S002-V003

66 mm Industrial Sensing Component

Joint Torque Sensors | Joint Torque Sensor Series

Product Overview

66 mm Industrial Sensing Component with accuracy 0.4 %FS, resolution 0.06 %FS and weight 126 g.

Key Specifications

PARAMETER	VALUE	UNIT
Accuracy	0.4	%FS
Resolution	0.06	%FS
Weight	126	g
Nonlinearity	0.15 %FS	
Body Outer Diameter	66	mm
Axial Load Capacity	≤ 250 / 250	N
Bending Moment Capacity	≤ 25 / 25	N·m
Input Impedance	700 Ω	
Material	Alloy steel	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Nonlinearity	0.15 %FS		
Axial Load Capacity	≤ 250 / 250	N	
Bending Moment Capacity	≤ 25 / 25	N·m	
Radial Load Capacity	≤ 250 / 250	N	
Overload Capacity	350 %FS		
Measurement Resolution	0.06 %FS		
Orthogonality Error	1	%FS	
Measurement Repeatability	0.15 %FS		
Measurement Accuracy	0.4 %FS		
Zero Drift	0.008 %FS		Interval: 10min; Test Condition: constant temperature
ELECTRICAL			
Sensitivity	$0.95 \pm 0.02 \text{ mV/V}$		
Output Impedance	700 Ω		
Recommended Supply Voltage	6	V DC	

Technical Specifications

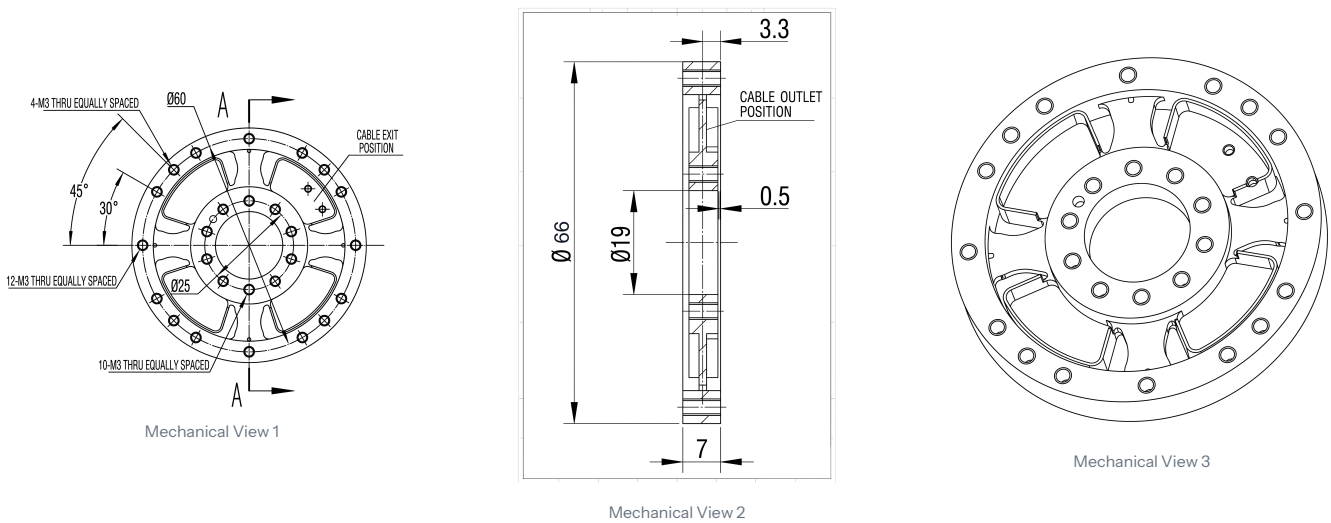
PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Input Impedance	700 Ω	
MECHANICAL		
Weight	126	g
Body Outer Diameter	66	mm
Torsional Stiffness	52600 N·m/rad	
Material	Alloy steel	
ENVIRONMENTAL		
Temperature Zero Drift	0.05 %FS/10°C	
ADDITIONAL SPECIFICATIONS		
Accuracy	0.4	%FS
Resolution	0.06	%FS
Nonlinearity	0.15	%FS
Protection Rating	IP65	
Repeatability	0.15	%FS
Measuring Range	50	N·m

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	126	g
Body Outer Diameter	66	mm
Torsional Stiffness	52600 Nm/rad	
Material	Alloy steel	

Dimensional Drawings



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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.