

PRODUCT DATASHEET

ES-SN-C18-S002-V001

63 mm Industrial Sensing Component

Joint Torque Sensors | Joint Torque Sensor Series

Product Overview

63 mm Industrial Sensing Component with weight 138 g, nonlinearity Better than 0.7 %FS and body Outer Diameter 63 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Weight	138	g
Nonlinearity	Better than 0.7	%FS
Body Outer Diameter	63	mm
Axial Load Capacity	650	N
Bending Moment Capacity	80	N·m
Hysteresis	Better than 0.5	%FS
Input Impedance	700±3	Ω
Material	Alloy steel	
Measurement Accuracy	Better than 0.8	%FS

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Nonlinearity	Better than 0.7	%FS	
Overload Capacity	500	%FS	
Measurement Resolution	0.1	%FS	
Orthogonality Error	1	%FS	
Measurement Repeatability	Better than 0.6	%FS	
Hysteresis	Better than 0.5	%FS	
Measurement Accuracy	Better than 0.8	%FS	
Axial Load Capacity	650	N	
Zero Drift	Better than 0.05	%FS	Test Condition: constant temperature
Radial Load Capacity	1900	N	
Bending Moment Capacity	80	Nm	
ELECTRICAL			
Sensitivity	0.9937±0.02	mV/V	

Technical Specifications

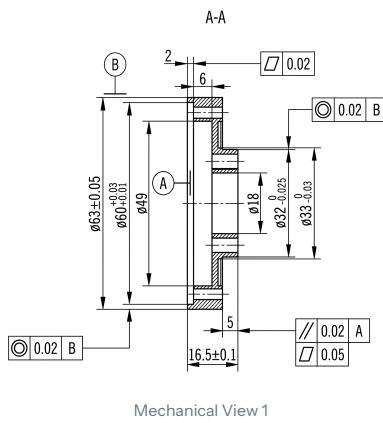
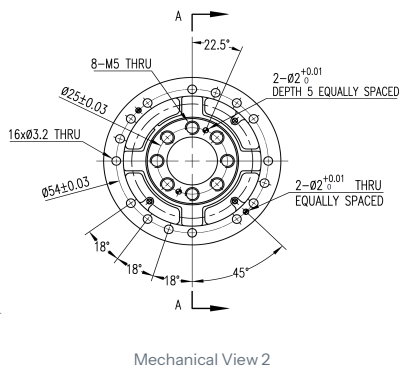
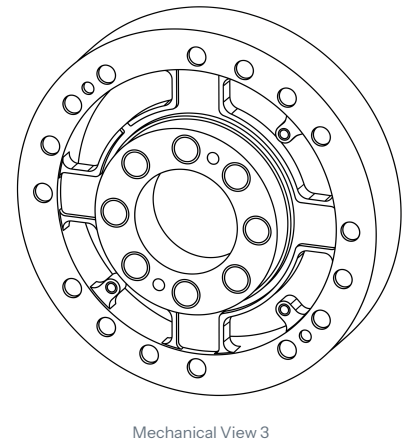
PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Output Impedance	700±3	Ω
Recommended Supply Voltage	6	VDC
Input Impedance	700±3	Ω
Output Type	Analog	
MECHANICAL		
Weight	138	g
Body Outer Diameter	63	mm
Torsional Stiffness	205734	Nm/rad
Material	Alloy steel	
Overall Thickness	16.5	mm
ENVIRONMENTAL		
Temperature Zero Drift	0.05	%FS/10°C
ADDITIONAL SPECIFICATIONS		
Measuring Range	100	Nm

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	138	g
Body Outer Diameter	63	mm
Torsional Stiffness	205734	Nm/rad
Material	Alloy steel	
Overall Thickness	16.5	mm

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.