

PRODUCT DATASHEET

ES-SN-C18-S002-V004

105 mm Industrial Sensing Component

Joint Torque Sensors | Joint Torque Sensor Series

Product Overview

105 mm Industrial Sensing Component with accuracy 0.2 %FS, resolution 0.04 %FS and weight 200 g.

Key Specifications

PARAMETER	VALUE	UNIT
Accuracy	0.2	%FS
Resolution	0.04	%FS
Weight	200	g
Nonlinearity	0.15 %FS	
Body Outer Diameter	105	mm
Axial Load Capacity	≤600 / 600	N
Bending Moment Capacity	≤15 / 15	N·m
Input Impedance	700 Ω	
Material	Aluminum alloy	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Nonlinearity	0.15 %FS		
Axial Load Capacity	≤600 / 600	N	
Bending Moment Capacity	≤15 / 15	Nm	
Radial Load Capacity	≤600 / 600	N	
Overload Capacity	150 %FS		
Measurement Resolution	0.04 %FS		
Orthogonality Error	1	%FS	
Measurement Repeatability	0.2 %FS		
Measurement Accuracy	0.2 %FS		
Zero Drift	0.002 %FS		Interval: 30min; Test Condition: constant temperature
ELECTRICAL			
Sensitivity	1.48±0.1mV/V		
Output Impedance	700 Ω		
Recommended Supply Voltage	6	V DC	

Technical Specifications

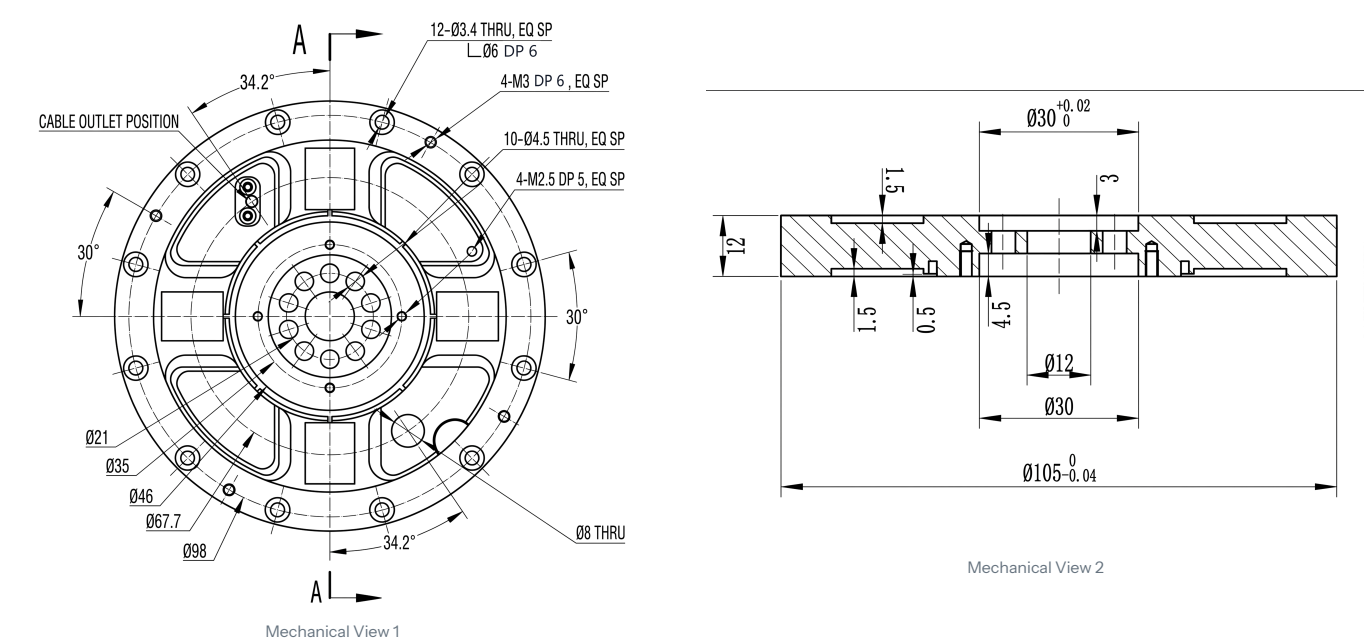
PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Input Impedance	700 Ω	
MECHANICAL		
Weight	200	g
Body Outer Diameter	105	mm
Torsional Stiffness	382500 Nm/rad	
Material	Aluminum alloy	
ENVIRONMENTAL		
Temperature Zero Drift	0.05 %FS/10°C	
ADDITIONAL SPECIFICATIONS		
Accuracy	0.2	%FS
Resolution	0.04	%FS
Nonlinearity	0.15	%FS
Protection Rating	IP65	
Repeatability	0.2	%FS
Measuring Range	300	Nm

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	200	g
Body Outer Diameter	105	mm
Torsional Stiffness	382500 Nm/rad	
Material	Aluminum alloy	

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.