

PRODUCT DATASHEET

ES-SN-C30-S001-V001

Industrial Sensing Component

Six Axis Force Sensors | Six Axis Force Sensor Series

Product Overview

Industrial Sensing Component with torque Range (Mz) 4 N·m, torque Range (Mxy) 4 N·m and force Range (Fxy) 150 N.

Key Specifications

PARAMETER	VALUE	UNIT
Torque Range (Mz)	4	N·m
Torque Range (Mxy)	4	N·m
Force Range (Fxy)	150	N
Measurement Axes	6	axes
Communication Interface	Ethernet; EtherCAT; RS-485; analog output	
Operating Temperature	-10 to +55	°C
Power Consumption	0.5	W
Force Range (Fz)	200	N
Mass	28	g

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Nonlinearity	1	%FS
Resolution (Mxy)	0.025	%FS
Resolution (Fz)	0.02	%FS
Resolution (Fxy)	0.02	%FS
Resolution (Mz)	0.025	%FS
Axis Crosstalk	2	%FS
Overload Capacity	350	%
ELECTRICAL		
Communication Interface	Ethernet	
	EtherCAT	
	RS-485	
	Analog output	
Power Consumption	0.5	W
Maximum Output Data Rate	2000	Hz

Technical Specifications

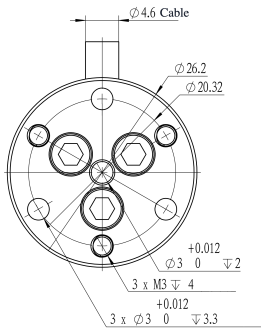
PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
External Connector Type	Cold-pressed terminal	
MECHANICAL		
Mass	28	g
Housing Material	Alloy Steel and Aerospace Aluminum	
ENVIRONMENTAL		
Operating Temperature	-10 to +55	°C
Ingress Protection	IP65; IP67 customization available	
CONFIGURATION		
System Architecture	Digital output with adapter	
Dimensions	23 × 26.2 mm (diameter)	
ADDITIONAL SPECIFICATIONS		
Torque Range (Mz)	4	N·m
Torque Range (Mxy)	4	N·m
Force Range (Fxy)	150	N
Measurement Axes	6	axes
Force Range (Fz)	200	N
Supply Voltage	12-24	VDC

Dimensional & Integration Overview

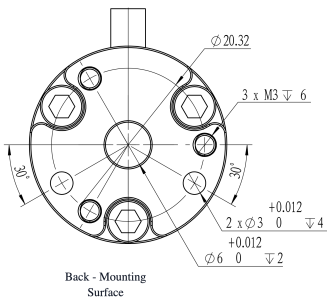
Mechanical Overview

PARAMETER	VALUE	UNIT
Mass	28	g
Housing Material	Alloy Steel and Aerospace Aluminum	
Dimensions	23 × 26.2 mm (diameter)	

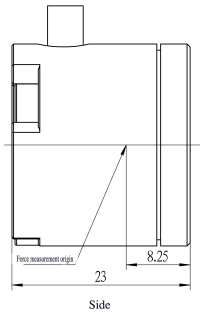
Dimensional Drawings



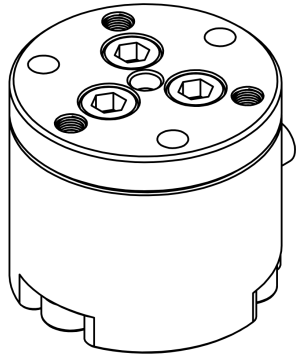
Mechanical View 1



Mechanical View 2



Mechanical View 3



Mechanical View 4

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Outer diameter	Outer diameter $\Phi 26.2$
	Mounting hole pitch circle diameter	Pitch circle diameter $\Phi 20.32$
	Central hole diameter and depth	$\Phi 3$ tolerance $+0.012/0$, depth 2
	Equally spaced threaded holes	3 x M3 threaded holes, depth 4, equally spaced
	Equally spaced diameter holes	3 x $\Phi 3$ holes, tolerance $+0.012/0$, depth 3.3, equally spaced
Mechanical View 2	Back mounting face circular diameter	Diameter 20.32
	M3 threaded mounting holes	3 x M3 threaded holes, depth 6
	Right side angular spacing	30 degrees
	Left side angular spacing	
	Two diameter 3 holes	2 x diameter 3 holes with tolerance $+0.012/0$, depth 4
	Diameter 6 center hole	Diameter 6 hole with tolerance $+0.012/0$, depth 2
	View title	Back mounting surface view
Mechanical View 3	Overall axial length in side view	23 mm
	View label	Side view

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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.