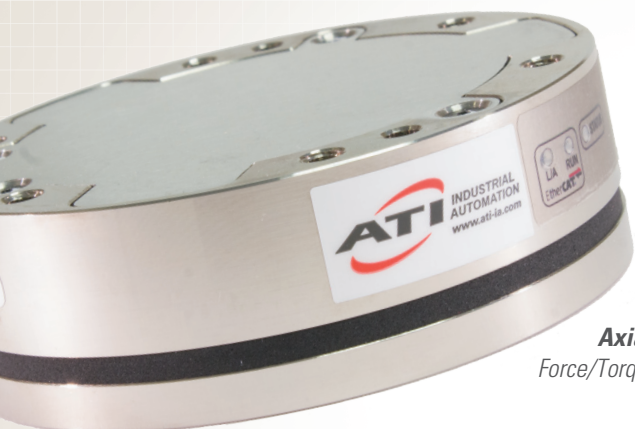


Axia80

Low-Cost Force/Torque Sensor



Axia80
Force/Torque Sensor

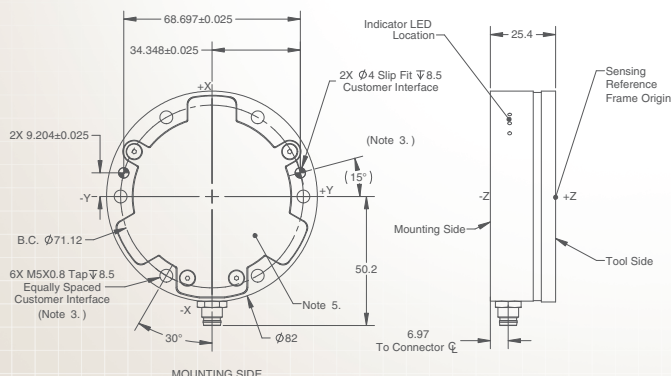
Product Description

The Axia80 Force/Torque (F/T) Sensor is a high-performance, low-cost six-axis sensor that offers the highest resolution, accuracy, and stiffness available to provide a sense of touch to your application. All the electronics are built into the transducer body which keeps the cost down and footprint smaller, while excelling in accuracy, resolution, and robustness. The Axia80 is available with Ethernet or EtherCAT communication and features a high signal-to-noise ratio and high overload protection.

Loading Characteristics	F _{xy}	F _z	T _{xy}	T _z
Rated Range 0	500 N	900 N	20 Nm	20 Nm
Rated Range 1	200 N	360 N	8 Nm	8 Nm
Overload Rating	2500 N	4500 N	100 Nm	100 Nm
Effective Resolution	0.1 N	0.1 N	0.005 Nm	0.005 Nm

Axia80 F/T Sensor

Drawing # 9230-05-1507



Product Features

Outstanding Reliability: The Axia80 provides precise and repeatable measurements in demanding applications.

Overload Protection: The Axia80 transducer is extremely rugged and durable. All transducer models can withstand high overload.

High Signal-to-Noise Ratio: The Axia80 provides high resolution with low noise.

Dual Calibrations: The Axia80 comes with two programmed calibration ranges with the ability to switch dynamically.

High Accuracy: Better than 2% full scale across all axes and calibrations.

Output Options

Communication: Ethernet or EtherCAT, up to 8 kHz frame rate

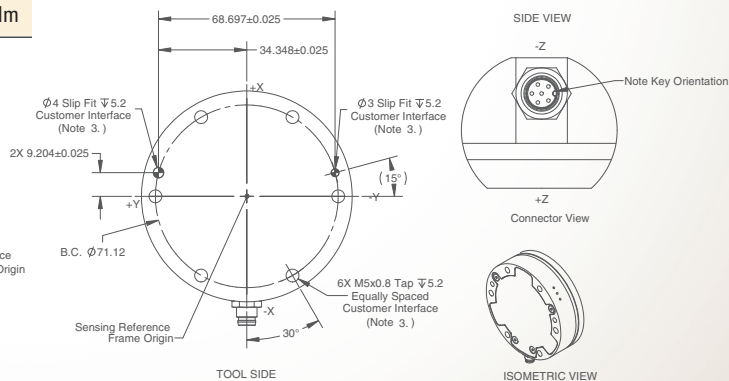
Supply Voltage: 12-30V DC

System Resolution: 16 bit

Sample Rate: 4 kHz

Operating Temperature: 0-65° C

Ingress Rating: IP64 Protection from dust and splashing water.



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