# Axia80 Low-Cost Force/Torque Sensor





#### **Product Description**

The Axia80 is a high-performance, low-cost, six-axis sensor. It offers the highest resolution, accuracy, and stiffness available to provide a sense of touch to your application. With electronics packaged on-board, the sensor is extremely robust and has a minimal footprint. The Axia80 is available with Ethernet, EtherCAT, or Serial communication and features a high signal-to-noise ratio and high overload protection.

#### **Product Features**

**Outstanding Reliability:** Provides precise and repeatable measurements in demanding applications.

**Overload Protection:** Extremely rugged and durable, all transducer models can withstand high overload.

**High Signal-to-Noise Ratio:** Provides high resolution with low noise.

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

**Dual Calibrations:** Comes with two programmed calibration ranges with the ability to switch dynamically.

### **Output Options**

**Communication:** Ethernet, EtherCAT, or Serial RS-485

Supply Voltage: 12-30V DC

System Resolution: 16 bit

Sample Rate: Up to 8 kHz

**Operating Temperature:** 0-65° C

**Ingress Rating:** IP64 Protection from dust and splashing water.



connector assembly

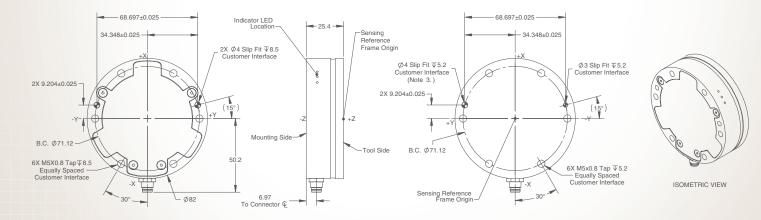
For detailed specifications on our entire line of Force/Torque Sensors, visit our website at www.ati-ia.com.

	Axia80-M8			Axia80-M20			Axia80-M50		
Loading Characteristics	Fxy	Fz	Txyz	Fxy	Fz	Txyz	Fxy	Fz	Txyz
Rated Range 0	150 N	470 N	8 Nm	500 N	900 N	20 Nm	1200 N	2000 N	50 Nm
Rated Range 1	75 N	235 N	4 Nm	200 N	360 N	8 Nm	480 N	800 N	20 Nm
Overload Rating	750 N	2350 N	40 Nm	2500 N	4500 N	100 Nm	6000 N	10000 N	250 Nm
Effective Resolution	0.04 N	0.04 N	0.002 Nm	0.1 N	0.1 N	0.005 Nm	0.8 N	0.8 N	0.016 Nm



## Axia80 F/T Sensor

Drawing # 9230-05-1543-01





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