

SMART DRIVE / TORQUE SENSOR

FEATURES

- The Smart Drive torque sensor accurately and reliably outputs real time torque data of the slew drive.
- Absolute sensor tracks torque with or without power applied.
- Each torque sensor is calibrated to the drive prior to shipment for ultimate precision.
- Custom integration within the drive means the torque sensor is shipped to you ready to go – no setup or calibration required, EVER.

For more information, please contact one of our Smart Drive product experts:

USA

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Developed in-house by Kinematics' slew drive and smart sensor experts, the Smart Drive torque sensor is the first market solution for fully integrated torque sensing within a slew drive. With each torque sensor calibrated to the drive in one of KMI's Smart Drive labs, the torque sensor outputs reliable and accurate data – all you need to do is provide power and start reading data from your drive.

The benefit of choosing the Smart Drive torque sensor is getting the expertise of Kinematics slew drive experts within each sensor. By developing this sensor in house, Kinematics is able to provide the same performance and reliability that our drives are known for in each torque sensor, all while keeping your cost as low as possible. Seamless integration within the Kinematics Smart Drive ecosystem also means that the Smart Drive torque sensor will soon be available with the rest of Kinematics latest innovations in slew drive sensing technologies.

APPLICATIONS

Solar trackers
Cranes
Positioners
Aerial Lifts
Satellite
Robotics

TECHNICAL SPECIFICATIONS

Resolution:
≈ 0.0025* (BHT of drive)

Frequency
Up to 20Hz

Torque range:
+/- 80% BHT of drive

Communication:
RS485 or CAN (via COTS converter)

Operating Voltage:
9-40VDC

Working Current:
@24VDC: 2-7 mA
Varies with frequency

Electrical Life:
100,000 hrs

Protection:
IP67

Operating temperature:
-40C to +85C