

SMART DRIVE / WG ABSOLUTE ENCODER

FEATURES

- The WG encoder (Worm and Gear encoder) can be used to accurately and reliably determine both worm and gear position of the slew drive
- Absolute encoder provides exact positional data of the drive with or without power applied.
- Up to 15-bit single-turn accuracy and 20,000 turns absolute position
- RS485 and CAN data output available
- Low cost compared to existing market options

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

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The Smart Drive / WG encoder (Worm and Gear Encoder) is available as absolute, multi-turn and single-turn encoders installed to the Kinematics slew drive as the newest addition to the Kinematics Smart Drive ecosystem. These encoders are capable of absolute accuracy of greater than 0.1° per turn and output unique positional data for up to 20,000 turns. Being an absolute encoder, the WG series encoder is able to provide accurate and reliable positional data of your drive even if power is lost.

The benefit of choosing the WG series encoder is getting the performance that Kinematics is known for at a competitive price in comparison to existing options on the market. Seamless integration within the Kinematics Smart Drive ecosystem also means that the WG series will soon be available with the rest of Kinematics latest innovations in slew drive sensing technologies.

APPLICATIONS

- Solar Inclinometer
- Cranes
- Positioners
- Aerial Lifts
- Satellite
- Robotics

TECHNICAL SPECIFICATIONS

Resolution/turn:
Multi-turn: 10 or 12-bit
Single-turn: up to 15-bit

Turn Count:
Up to 19,872

Encoder Type:
Absolute

Communication:
RS485 or CAN

Operating Voltage:
9-30VDC or 5VDC

Working Current:
50mA

Electrical Life:
>100,000 hrs

Protection:
IP54 or IP67

Operating temperature:
-40 to +85C