The Quantum 360™ uses the latest in advanced TMR position sensor technology from Reventec. Capable of measuring through large sections of non-ferrous materials and operating in off-axis target magnet installations, this product provides advantages unavailable from alternative rotary sensing technologies.

- Solid-state, continuous rotational sensing
- Off axis measurement, with exceptional gap tolerance
- 12bit resolution (<0.1° resolution)
- Fully configurable without resolution loss
- Rotary measurement through non-ferrous materials up to 25mm away.
- Dual redundant option
- Multiple magnet (target) options.
- Submersible (IP67)
Quantum 360 TMR Rotary Position Sensor

### Order Number Configurator

<table>
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<tr>
<th>Product Code</th>
<th>Single or Dual Channel Variant</th>
<th>Power Supply</th>
<th>Output Options</th>
<th>Magnet</th>
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<tr>
<td>Q360</td>
<td>-01 (Single Channel)</td>
<td>-005 (+5VDC +/−0.2VDC supply)</td>
<td>-A1 (0-5VDC Analogue Output)</td>
<td>-M (Magnet Only)</td>
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<td></td>
<td>-02 (Dual Channel)</td>
<td>-631 (+6VDC to +31VDC supply)</td>
<td>-A2 (0-10VDC Analogue Output)</td>
<td>-H (Housed Magnet Assembly)</td>
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</table>

Sample Code: Q360-01-631-A1-M (Single Channel, 6-31VDC supply, 0-5VDC output signal, Supplied with Magnet Only)

### Position Measurement
- **Sensing Range**: 0-359° measurement capability.
- **Accuracy**: ±0.4% of full scale.
- **Permissible Airgap**: Up to 25mm dependant on application/target magnet.
- **Measurement Rate**: 5kHz
- **Calibration**: Custom calibrations available, please contact Reventec for assistance.

### Electrical
- **Supply Voltage**: +6VDC to +31VDC or +5 VDC+/−0.25VDC
- **Typical Operating Current**: <25mA
- **Overvoltage Protection**: +45 VDC continuous
- **Reverse Polarity Protection**: -45 VDC continuous

### Signal Output 1
- **Type**: Analogue Voltage
- **Output range**: 0-5VDC or 0-10VDC
- **Resolution**: 12 bit

### Dual Redundant Signal Output 2
- **Type**: Analogue Voltage
- **Output Levels**: 0-5VDC or 0-10VDC
- **Resolution**: 12 bit

### Environmental
- **Environmental protection**: IP67
- **Operating Temperature**: -40°C to 125°C

### Mechanicals/Cable Spec
- **Flying Leads**: 1 Meter supplied as standard
- **Jacket Elastomer**: FEP Black
- **Wire Type**: -5 core, FEP Insulated, 24 AWG
- **Housing Material**: Anodised Aluminium

### Configuration Interface
- **Type**: RS-232 via FTDI USB cable. See accessories
- **GUI**: Available on request

### Accessories
- **USB calibration cable**: P/N: 07-003-01

Specifications may be subject to change without prior notice.