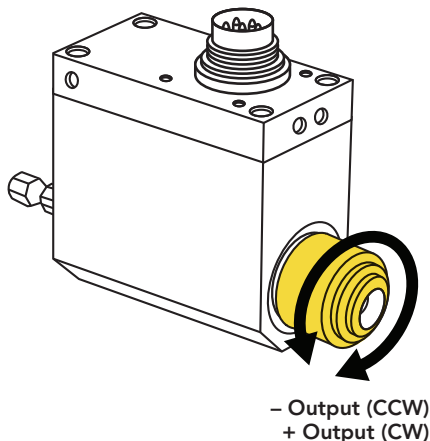




FEATURES

- Utilizes strain gauge technology
- Angle speed feedback included
- Compact size
- Can operate up to 7000 RPM

Active end



SPECIFICATIONS

PERFORMANCE

| | |
|------------------|--------------|
| Nonlinearity | ±0.2% of RO |
| Hysteresis | ±0.1% of RO |
| Nonrepeatability | ±0.2% of RO |
| Rotational Speed | 7000 RPM Max |

ELECTRICAL

| | |
|-------------------------|---|
| Rated Output (RO) | ±5 VDC |
| Excitation (VDC or VAC) | 11 to 26 VDC, 1 Watt |
| Connection | 12 pin Binder Series #581 (09-0331-90-12) |

MECHANICAL

| | |
|----------------------|---|
| Weight (approximate) | 0.8 lb [0.35 kg] |
| Safe Overload | 150% of RO |
| Material | Aluminum (Housing) Steel Alloy (Shaft) |

| | |
|-----------|------|
| IP Rating | IP40 |
|-----------|------|

TEMPERATURE

| | |
|-------------------------|---------------------------------------|
| Operating Temperature | -13 to 176°F (-25 to 80°C) |
| Compensated Temperature | 42 to 122°F (5 to 50°C) |
| Temperature Shift Zero | ±0.01% of RO/°F (±0.02% of RO/°C) |
| Temperature Shift Span | ±0.01% of Load/°F (±0.02% of Load/°C) |

CALIBRATION

| | |
|-----------------------------|--|
| Calibration Test Excitation | 12 VDC |
| Calibration (standard) | Certificate of Conformance |
| Calibration (available) | 5-pt CW & CCW |
| Shunt Calibration | With sensor fully connected apply 11–26 VDC to Pins A & K to generate 5 VDC nom output |

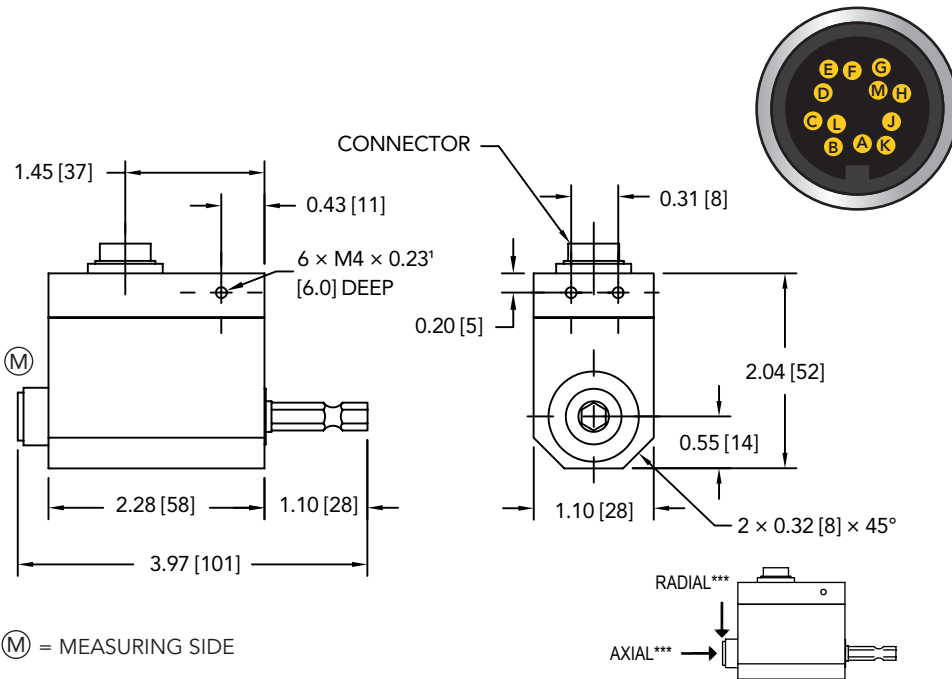
ENCODER

| | |
|-----------------------|----------------------|
| Output | Impulse (TTL) |
| Pulses per Revolution | 360 |
| Excitation | 5 VDC |
| Angle 1 | Leading Pulse |
| Angle 2 | Trailing Pulse (90°) |

CONFORMITY

| | |
|------|---|
| RoHS | 2014/30/EU |
| CE | Declaration of Conformity |

DIMENSIONS inches [mm]



(M) = MEASURING SIDE

TORQUE SENSOR WITH STANDARD 1/4" HEX PER DIN 3126 E & F
 * ANTI-ROTATION HOLES, NOT TO BE USED TO SUPPORT LOAD
 ** MAXIMUM LOAD ALLOWED, NOT FOR MEASUREMENT

TORQUE CONNECTOR CODES

| PIN | COLOR | DESCRIPTION |
|-----|-------|---------------|
| C | Green | Signal Output |
| D | White | Ground |
| E | Black | Ground |
| F | Red | Power |

ANGLE CONNECTOR CODES

| PIN | COLOR | DESCRIPTION |
|-----|--------|------------------|
| B | Blue | Signal (Angle 1) |
| E | Black | Ground |
| G | Brown | Signal (Angle 2) |
| H | Orange | Power |

SHUNT CAL CONNECTOR CODES

| PIN | COLOR | DESCRIPTION |
|-----|--------|-------------|
| A | Yellow | Ground |
| K | Purple | Power |

SHIELD CONNECTOR CODES

| PIN | COLOR | DESCRIPTION |
|-----|----------|-------------|
| M | Floating | Shield |

CAPACITIES

| ITEM # | in-lb | Nm | *** Max Axial Force lb [N] | *** Max Radial Force lb [N] |
|----------|-------|-----|----------------------------|-----------------------------|
| FSH02037 | 4.5 | 0.5 | 4.5 [20] | 1.1 [5] |
| FSH02038 | 9 | 1 | 11.3 [50] | 2.2 [10] |
| FSH02039 | 18 | 2 | 11.3 [50] | 4.5 [20] |
| FSH02040 | 53 | 6 | 33.7 [150] | 9.0 [40] |
| FSH02041 | 106 | 12 | 33.7 [150] | 9.0 [40] |
| FSH02042 | 159 | 18 | 45 [200] | 9.0 [40] |

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Drawing Number: FI1404

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ROHS



U.S. Manufacturer