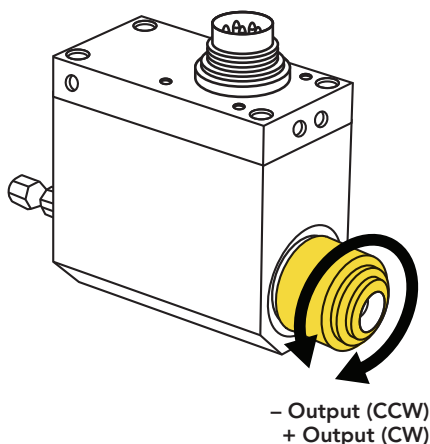




### FEATURES

- 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

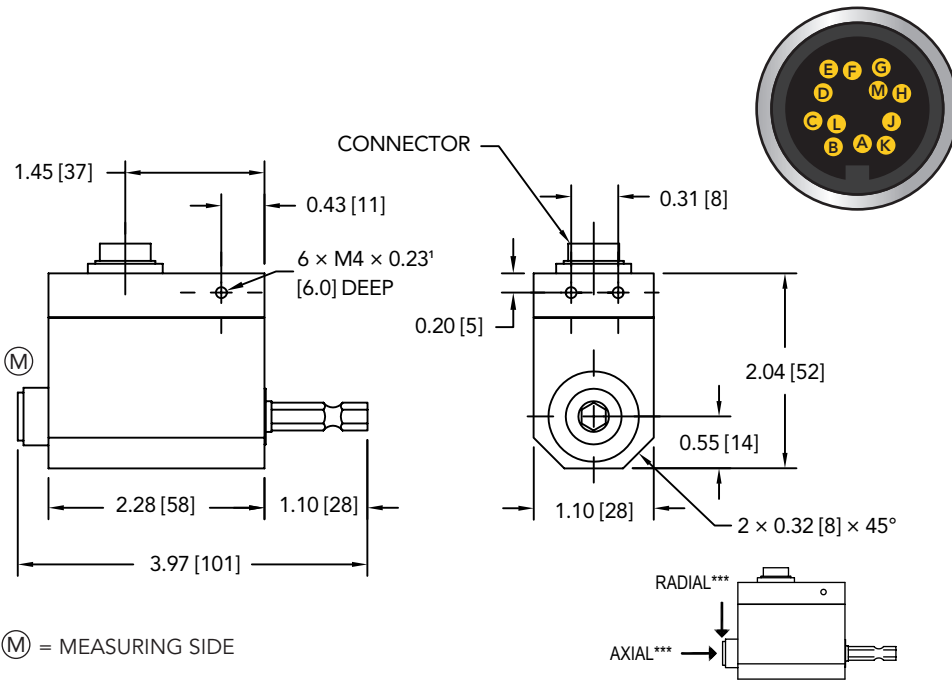
#### ENCODER

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	<a href="#">Declaration of Conformity</a>

## 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]

Drawing Number: FI1404

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