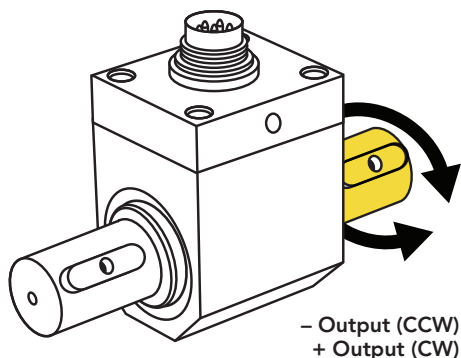




#### FEATURES

- Configures with external mating electronics
- Slip ring-based torque sensor
- Compact size
- Designed for lower duty cycles
- Can operate up to 3000 RPM

 Active end



#### SPECIFICATIONS

##### PERFORMANCE

Nonlinearity	±0.2% of RO
Hysteresis	±0.1% of RO
Nonrepeatability	±0.2% of RO
Rotational Speed	3000 Max

##### ELECTRICAL

Rated Output (RO)	2 mV/V nom
Excitation (VDC or VAC)	5 to 11
Bridge Resistance	350 Ohm nom
Connection	6 pin Binder Series #581 (09-0323-99-06)

##### MECHANICAL

Weight (approximate)	1.1 lb [0.5 kg] (89–885 in-lb) 5.2 lb [2.35 kg] (1770–8851 in-lb)
Safe Overload	150% of RO
Material	Aluminum 6061 (Housing) 17-4 PH stainless-steel (Shaft)
IP Rating	IP40

##### TEMPERATURE

Operating Temperature	14 to 194°F (–10 to 90°C)
Compensated Temperature	41 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 RO/°F (±0.02% of RO/°C)

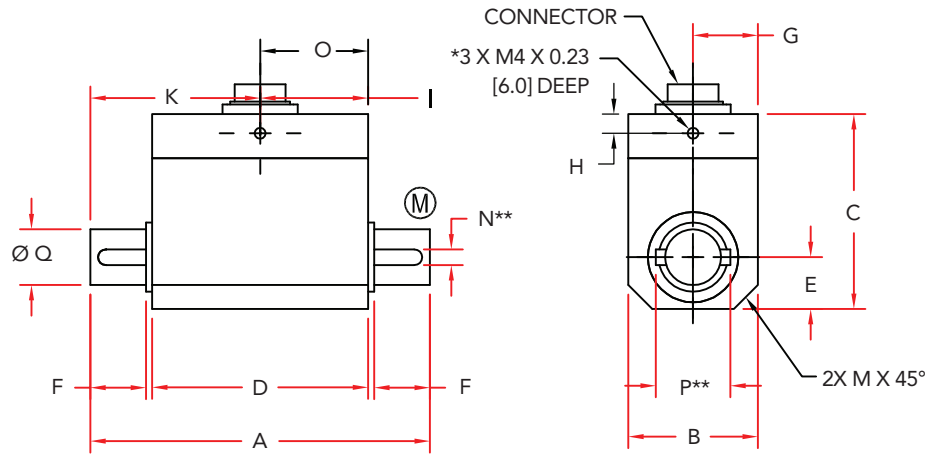
##### CALIBRATION

Calibration Test Excitation	10 VDC
Calibration (standard)	Certificate of Conformance
Calibration (available)	5-pt CW & CCW
Shunt Calibration Value	With sensor fully connected jump pins 1 & 6 to generate 2 mV/V nom output

##### CONFORMITY

RoHS	2014/30/EU
CE	EN 61000-6-4:2011-09; EN 55011:2011-04 Criteria A Certification for Equipment, EMC Emission EN 61000-6-2:2006-03; EN 61000-4-2:2009-12; EN 61000-4-3:2011-04; EN 61000-4-4:2013-04; EN 61000-4-5:2015-03; EN 61000-4-6:2014-08 Criteria A Certification for Equipment, EMC Immunity

**DIMENSIONS** inches [mm]



**CONNECTOR CODE**

PIN	WIRING CODE
1	- EXCITATION/BLACK
2	+ EXCITATION/RED
3	SHIELD/FLOATING
4	+ SIGNAL/GREEN
5	- SIGNAL/WHITE
6	SHUNT CAL/ORANGE

(M) = MEASURING SIDE

\* ANTI-ROTATION HOLES, NOT TO BE USED TO SUPPORT LOAD

\*\* FEATHER KEYWAYS PER DIN 6885, KEYWAYS COME PRE-INSTALLED

**CAPACITIES**

ITEM #	in-lb	Nm	Ø Q	A	B	C	D	E	F	G	H	I	K	M	N**	P**	O	***	***
																		Max Axial Force lb [N]	Max Radial Force lb [N]
FSH01987	89	10	0.748 [19] g6	4.25 [108]	1.49 [38]	2.28 [58]	1.73 [44]	0.74 [19]	1.18 [30]	0.74 [19]	0.23 [6]	0.86 [22]	2.08 [53]	0.40 [10]	0.236 [6]	0.945 [24]	0.87 [22]	34 [150]	4.5 [20]
FSH01988	177	20																124 [550]	6.8 [30]
FSH01989	443	50																225 [1000]	11 [50]
FSH01990	885	100																405 [1800]	56 [250]
FSH01991	1770	200	1.496 [38] g6	7.16 [182]	2.87 [73]	3.54 [90]	2.24 [57]	1.43 [36.5]	2.36 [60]	1.43 [36.5]	0.19 [5]	1.12 [28.5]	3.56 [90.5]	0.71 [18]	0.394 [10]	1.732 [44]	1.14 [29]	900 [4000]	67 [300]
FSH01992	4425	500																1350 [6000]	90 [400]
FSH01993	8851	1000																1350 [6000]	90 [400]

Drawing Number: FI1025-G

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RoHS



U.S. Manufacturer