

SMF705-S

NON CONTACT SHAFT ROTARY TORQUE SENSOR WITH INTEGRATED ENCODER

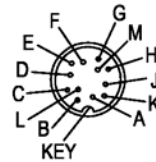
Drawing Number: FI1248

INCH [mm] R.O.= Rated Output

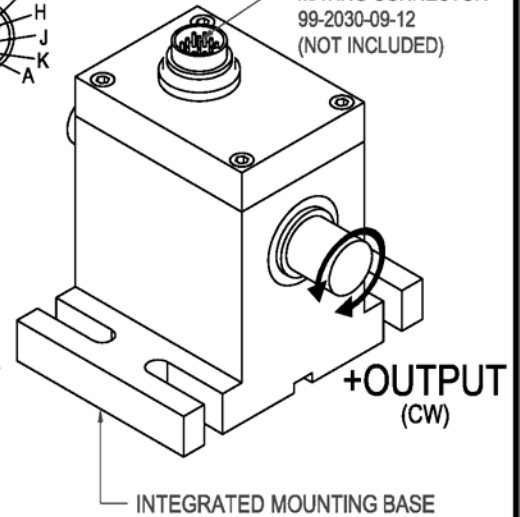
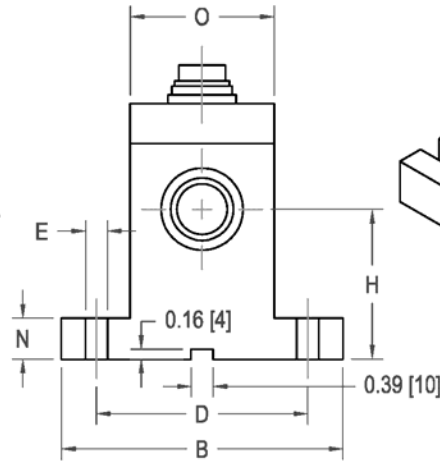
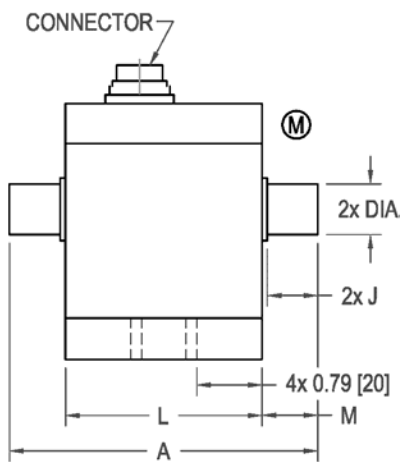
CONNECTOR CODE (CABLE PACKAGE WIRING CODE)			
GND (Shunt Cal)	Signal (Angle 1)	Signal (Torque)	GND (Torque)
PIN 'A' (YELLOW)	PIN 'B' (BLUE)	PIN 'C' (GREEN)	PIN 'D' (WHITE)
GND (Sensor Angle)	Power (Sensor)	Signal (Angle 2)	Power (Angle)
PIN 'E' (BLACK)	PIN 'F' (RED)	PIN 'G' (BROWN)	PIN 'H' (ORANGE)
N/C	Power (Shunt Cal)	N/C	Shield (Floating)
PIN 'J'	PIN 'K' (PURPLE)	PIN 'L'	PIN 'M'

CE COMPLIANT

NON CONTACT SHAFT TO SHAFT ROTARY TORQUE SENSOR W/ ENCODER FOR 100-1000 Nm SEE FI1249



BINDER RECEPTACLE
09-0331-90-12
MATING CONNECTOR
99-2030-09-12
(NOT INCLUDED)



Ⓜ=MEASURING SIDE

STOCK #	CAPACITY in-lb N m	DIA	A	B	C	D	E	H	J	L	M	N	O	MAX AXIAL FORCE lb N	MAX RADIAL FORCE lb N
FSH02562	8.9 1													4 20	3 15
FSH02563	17.7 2	0.394	3.54	2.28	3.27	1.77	0.28	1.77	0.59	2.28	0.63	0.47	1.10	11 50	5 25
FSH02564	44.3 5	[10] g6	[90]	[58]	[83]	[45]	[7]	[45]	[15]	[58]	[16]	[12]	[28]	22 100	11 50
FSH02565	88.5 10													33 150	11 50
FSH02566	177 20	0.669	4.17	3.35	4.02	2.36	0.35	2.48	0.87	2.32	0.91	0.59	1.50	33 150	33 150
FSH02567	443 50	[17] g6	[106]	[85]	[102]	[60]	[9]	[63]	[22]	[59]	[23]	[15]	[38]	44 200	33 150

TORQUE SPECIFICATIONS:

RATED OUTPUT	±5VDC
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±1% of R.O.
EXCITATION (VDC)	11-26 VDC
NONLINEARITY	±0.2% of R.O.
HYSTERESIS	±0.1% of R.O.
NONREPEATABILITY	±0.2% R.O.
TEMP. SHIFT ZERO	±0.01% of R.O. / °F [±0.02% of R.O. / °C]
TEMP. SHIFT SPAN	±0.01% of R.O. / °F [±0.02% of Load / °C]
OPERATING TEMP.	-13 to 176°F [-25 to +80°C]
ROTATIONAL SPEED	7000 RPM MAX
CONNECTOR:	12 pin Binder Series #581 (09-0331-90-12)
ACCESSORIES AND RELATED INSTRUMENTS AVAILABLE	
CALIBRATION (STD)	Certificate of Conformance
CALIBRATION (AVAILABLE)	5pt CW and CCW
CALIBRATION TEST EXCITATION	12 VDC
SHUNT CALIBRATION	With sensor fully connected apply 11-26 VDC to Pins A & K to generate 5VDC nom output.

ENCODER SPECIFICATIONS:

OUTPUT	IMPULSE (TTL)
PULSES / REV	2 x 360
EXCITATION	5 VDC
ANGLE 1- LEADING PULSE	
ANGLE 2- TRAILING PULSE (90°)	