

HEX DRIVE ROTARY TORQUE SENSOR

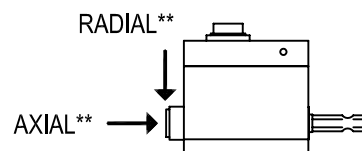
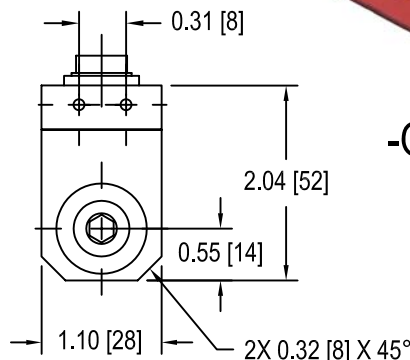
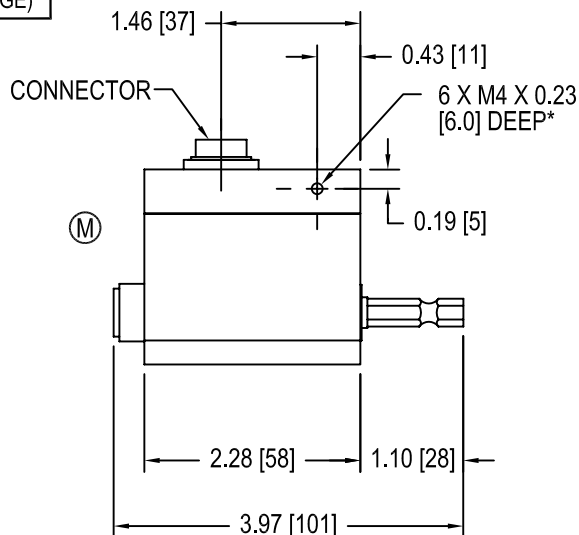
MODEL TRH300

CE COMPLIANT

Drawing Number: FI1024-C

INCH [mm] | R.O.= Rated Output

CONNECTOR CODE (CABLE PACKAGE WIRING CODE)			
-Excitation	+Excitation	Shield	+Signal
PIN '1' (BLACK)	PIN '2' (RED)	PIN '3' (FLOATING)	PIN '4' (GREEN)
-Signal	Shunt Cal		
PIN '5' (WHITE)	PIN '6' (ORANGE)		



(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.

SPECIFICATIONS:

RATED OUTPUT	1 mV/V nom (2 Nm); 2 mV/V nom (6-20 Nm)
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±1% of R.O.
EXCITATION (VDC OR VAC)	5 to 11
BRIDGE RESISTANCE	350 Ω nom.
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 Load / °F [±0.02% of Load / °C]
OPERATING TEMP.	14 to 194°F [-10 to +90°C]
COMPENSATED TEMP.	41 to 122°F [+5 to +50°C]
ROTATIONAL SPEED	3000 RPM MAX
CONNECTOR:	6 pin Binder Series #581 (09-0323-99-06)
ACCESSORIES AND RELATED INSTRUMENTS AVAILABLE	
CALIBRATION (STD)	Certificate of Conformance
CALIBRATION (AVAILABLE)	5pt CW and CCW
SHUNT CAL VALUE (INTERNAL)	87K ohm (2 Nm), 43K ohm (6-20 Nm)
SHUNT CALIBRATION	With sensor fully connected jump Pins 1 & 6 to generate 2 mV/V nom output.
CALIBRATION TEST EXCITATION	10VDC

ITEM #	Capacity in-lb N-m	**MAX.AXIAL FORCE lb[N]	**MAX.RADIAL FORCE lb[N]	WEIGHT lb[kg]
FSH01979	18 2	4.5 [20]	4.5 [20]	0.7 [0.30]
FSH01980	53 6	11.3 [50]	9 [40]	
FSH01981	106 12	11.3 [50]	9 [40]	
FSH01982	177 20	33.7 [150]	9 [40]	

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