

FUTEK MODEL MBA500

TORQUE AND THRUST BI-AXIAL SENSOR (Previously T5105)

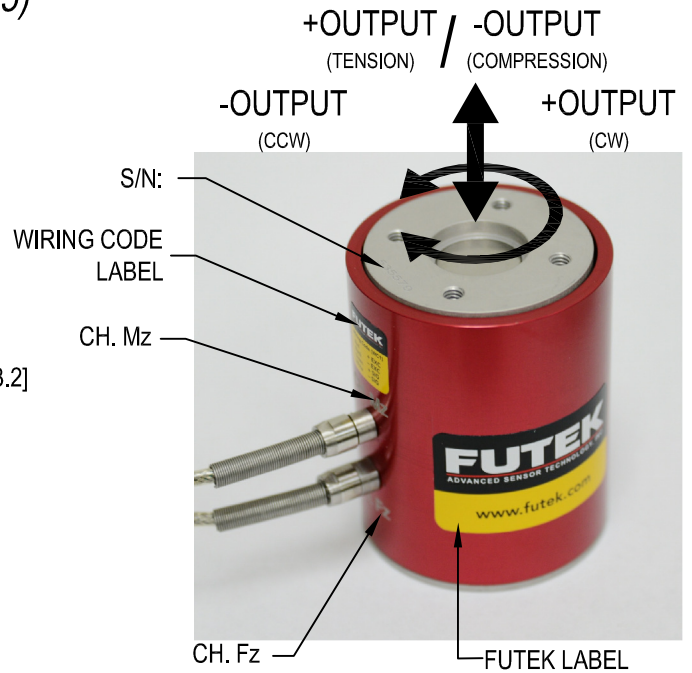
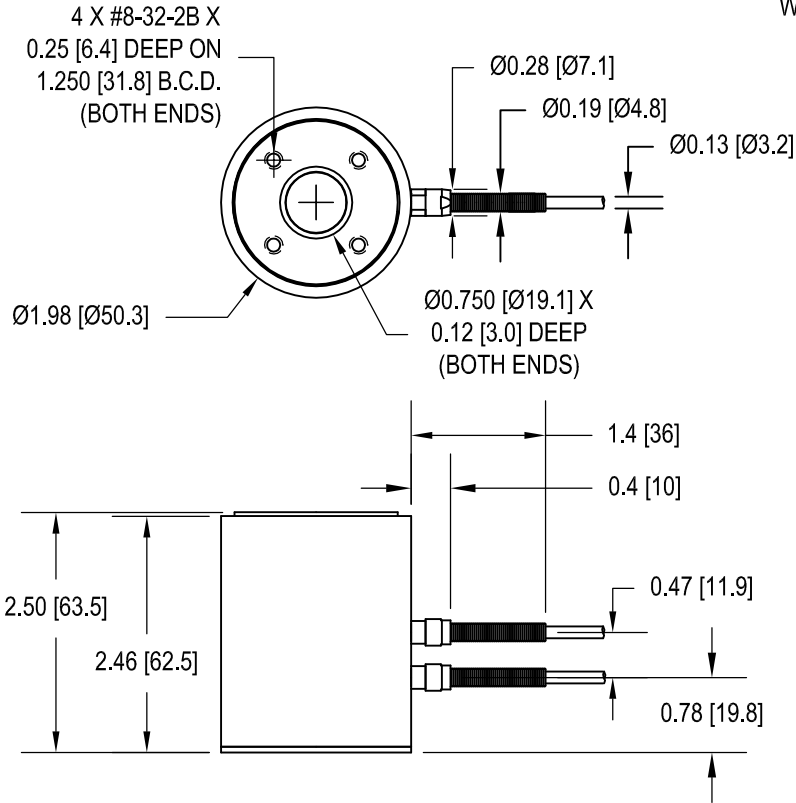
Drawing Number: FI1193-E

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

WIRING CODE (WC1)

+Excitation	-Excitation	+Signal	-Signal
RED	BLACK	GREEN	WHITE

Shield
FLOATING



ITEM #	LOAD CAPACITY		TORQUE CAPACITY	
	lb	N	in-lb	Nm
FSH00743	50	222	50	5.65
FSH00747	100	444	100	11.3
FSH00751	150	667	150	17
FSH00752	200	890	200	23

OTHER CAPACITIES AVAILABLE

SPECIFICATIONS:

THRUST

RATED OUTPUT 2 mV/V nom. (50-150 lb) 3 mV/V nom. (200 lb)

SAFE OVERLOAD 150% of R.O. (50-150 lb) 125% (200 lb)

ZERO BALANCE ±3% of R.O.

EXCITATION (VDC OR VAC) 18 MAX

BRIDGE RESISTANCE 350 Ω nom.

NONLINEARITY ±0.25% of R.O.

HYSTERESIS ±0.25% of R.O.

NONREPEATABILITY ±0.05% of R.O.

CALIBRATION (STD) 5 pt. COMPRESSION;
60.4KΩ (2mV/V), 43.575KΩ (3mV/V)
SHUNT CAL. VALUE

CALIBRATION (OPT) 5 pt. TENSION;
10 VDC

TEMP. SHIFT ZERO
TEMP. SHIFT SPAN
COMPENSATED TEMP.
OPERATING TEMP.
WEIGHT
MATERIAL
MATERIAL(COVER)

CABLE: #28 AWG, 4 Conductor, Braided Shielded PVC Cable, 10 ft [3 m] Long
ACCESSORIES AND RELATED INSTRUMENTS AVAILABLE

SPECIFICATIONS:

TORQUE

RATED OUTPUT 2 mV/V nom. (50-150 in-lb) 3 mV/V nom. (200 in-lb)

SAFE OVERLOAD 150% of R.O. (50-150 in-lb) 125% (200 in-lb)

ZERO BALANCE ±3% of R.O.

EXCITATION (VDC OR VAC) 18 MAX

BRIDGE RESISTANCE 350 Ω nom.

NONLINEARITY ±0.25% of R.O.

HYSTERESIS ±0.25% of R.O.

NONREPEATABILITY ±0.05% of R.O.

CALIBRATION (STD) 5 pt. CW;
60.4KΩ (2mV/V), 43.575KΩ (3mV/V)
SHUNT CAL. VALUE

CALIBRATION (OPT) 5 pt. CCW;
10 VDC

±0.005% of R.O./°F [0.01% of R.O./°C]
±0.005% of LOAD/°F [0.01% of LOAD/°C]
60 to 160°F [15 to 72°C]
-45 to 200°F [-42 to 93°C]
6.5 oz [184 g]
ALUMINUM
ALUMINUM, RED ANODIZE AFTER S/N: 345687

FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

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