

# FUTEK MODEL MBA500

Drawing Number: FI1193-D

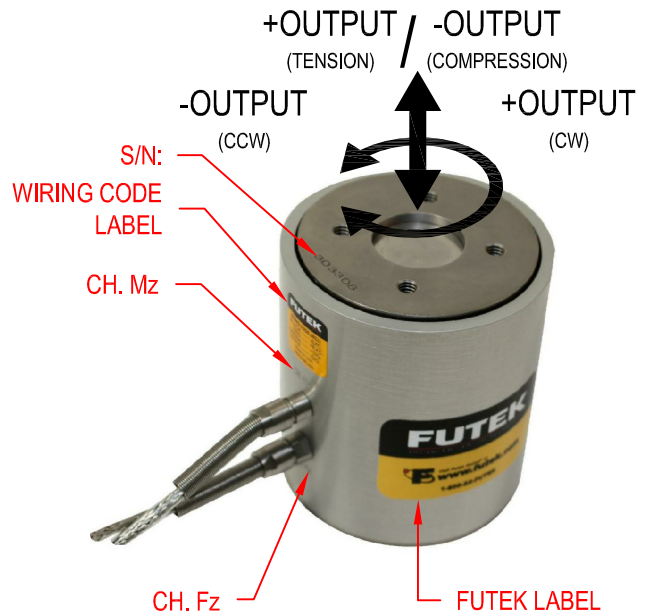
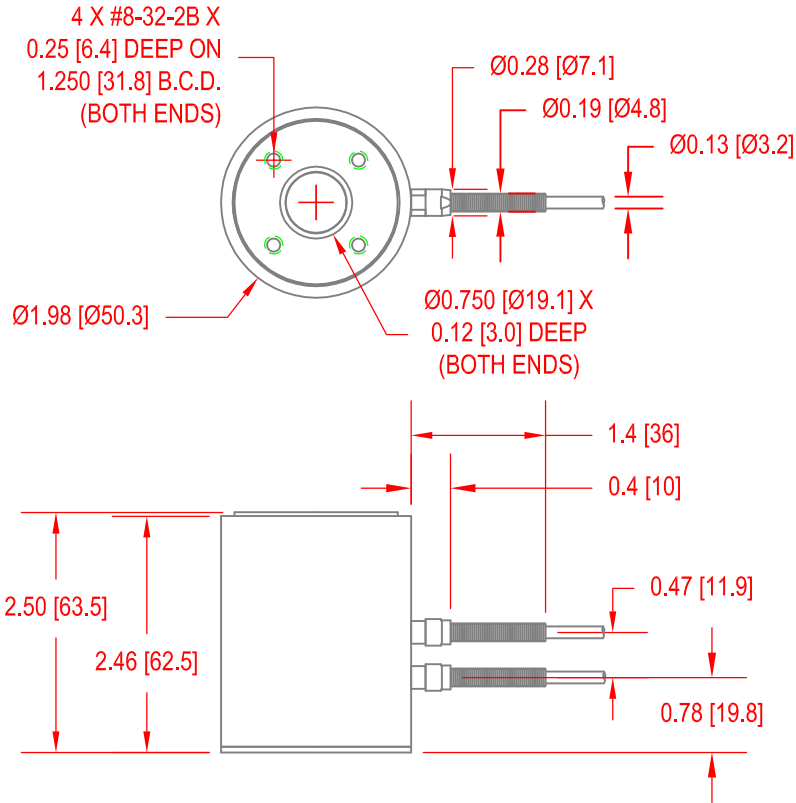
INCH [mm] | R.O.= Rated Output

WIRING CODE (WC1)

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

Shield
FLOATING

# TORQUE AND THRUST BI-AXIAL SENSOR (Previously T5105)



ITEM #	LOAD CAPACITY		TORQUE CAPACITY	
	lb	N	in-lb	Nm
FSH00743	50	222	50	5.65
FSH00744	50	222	100	11.3
FSH00745	50	222	150	17
FSH00746	100	444	50	5.65
FSH00747	100	444	100	11.3
FSH00748	100	444	150	17
FSH00749	150	667	50	5.65
FSH00750	150	667	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 to 150 lb) 3 mV/V nom. (200 lb)

SAFE OVERLOAD 150% of R.O. (50 to 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 5 pt. TENSION;  
10 VDC

CALIBRATION (OPT)  
CALIBRATION TEST EXCITATION

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 to 150 in-lb) 3 mV/V nom. (200 in-lb)

SAFE OVERLOAD 150% of R.O. (50 to 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 5 pt. CCW;  
10 VDC

CALIBRATION (OPT)  
CALIBRATION TEST EXCITATION

±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



This drawing is submitted solely for the information and exclusive use of the original addressee. It is not to be divulged in whole or in part, by any firm or individual without written permission from FUTEK

10 THOMAS  
IRVINE, CA 92618 USA  
1-800-23-FUTEK (38835)

INTERNET:  
<http://www.futek.com>