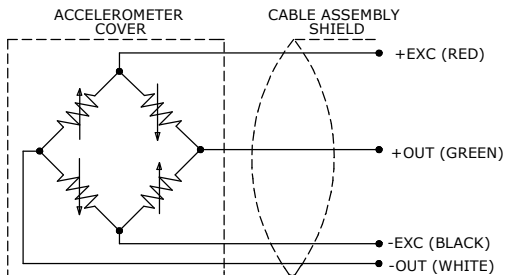


## SPECIFICATIONS:

All values are typical at +24°C (+75°F), 80Hz, and 10Vdc excitation unless otherwise stated.

PARAMETERS	VALUE							UNITS
DASH NO.	-0050	-0100	-0200	-0500	-1000	-2000	-6000	
DYNAMIC RANGE	±50	±100	±200	±500	±1000	±2000	±6000	g
SENSITIVITY $\Delta$	2	0.9	0.9	0.4	0.15	0.15	0.1	mV/g
FREQUENCY RESPONSE ±2% (±3% for 2000g&6000g)	0-400	0-500	0-600	0-800	0-2000	0-3000	0-3000	Hz
FREQUENCY RESPONSE ±5% (±7% for 2000g&6000g)	0-1000	0-1200	0-1400	0-2000	0-4000	0-5000	0-5000	Hz
FREQUENCY RESPONSE ±1dB (±13% for 2000g&6000g)	0-1400	0-1500	0-1900	0-2800	0-6000	0-7000	0-7000	Hz
PHASE RESPONSE ±5°	0-300	0-400	0-500	0-1000	0-2000	0-2000	0-2000	Hz
RESONANT FREQUENCY	4000	6000	8000	15000	26000	26000	26000	Hz
DAMPING RATIO	0.5	0.5	0.5	0.3	0.05	0.05	0.05	
SHOCK LIMIT	10000	10000	10000	10000	10000	10000	10000	g

PARAMETERS	VALUE	UNITS
ZERO ACCELERATION OUTPUT	<±25	mV
TRANSVERSE SENSITIVITY $\Delta$	<3	%
NON-LINEARITY	±1	%Reading
THERMAL ZERO SHIFT, 0-50°C (32-122°F)	-.11±.11(-.06±.06)	mV/°C (mV /°F)
THERMAL SENSITIVITY SHIFT, 0-50°C (32-122°F)	-.25±.25 (-.14±.14)	%/°C (%/°F)
EXCITATION VOLTAGE $\Delta$	2 to 10	Vdc
INSULATION RESISTANCE (@100Vdc)	>100	MΩ
INPUT IMPEDANCE	2400 to 6000	Ω
OUTPUT IMPEDANCE $\Delta$	2400 to 6000	Ω
OPERATING TEMPERATURE	-40 to +121 (-40 to +250)	°C (°F)
HUMIDITY	Epoxy Sealed	
WEIGHT (CABLE NOT INCLUDED)	1	Grams
MOUNTING TORQUE	3 (0.3)	lb-in (Nm)



TABULATION $\Delta$	
ZZZ	TOLERANCE
≤ 4 [102]	+0.5 [13] -0 [0]
> 4 [102] & ≤ 12 [305]	+1 [25] -0 [0]
> 12 [305] & ≤ 60 [1524]	+2 [51] -0 [0]
> 60 [1524] & ≤ 120 [3048]	+4 [102] -0 [0]
> 120 [3048] & ≤ 360 [9144]	+6 [152] -0 [0]
> 360 [9144]	+12 [305] -0 [0]

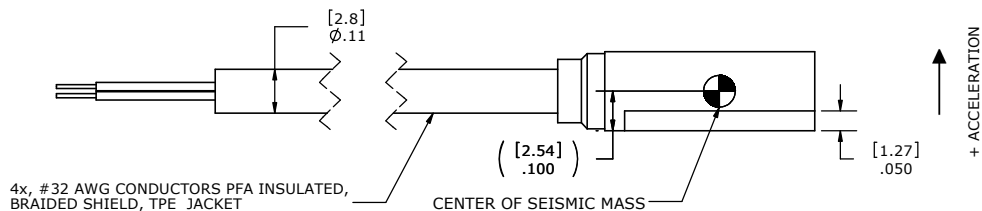
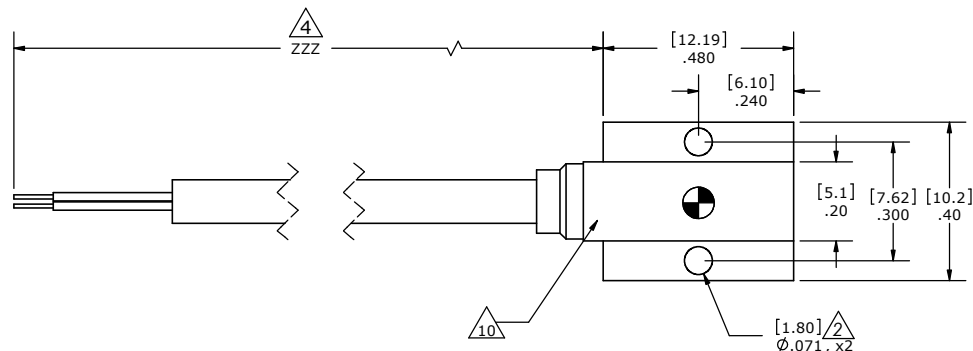
- NOTES:
- ELECTRICAL ISOLATION IS PROVIDED BY ANODIZED ALUMINUM BASE.
  - FOR #0-80 (UNIFIED SCREW THREAD) SOCKET HEAD CAP SCREW.
  - MODEL NUMBER:  
64B-ZZZZ-ZZZT-XXX

STANDARD SPECIAL REQUIREMENTS, OTHERWISE LEAVE BLANK  
"T" OPTION REQUIRING ≤1% TRANSVERSE SENSITIVITY; OTHERWISE, LEAVE BLANK.  
CABLE LENGTH (INCHES) [e.g. 360 IS 360 INCHES OF CABLE]  
RANGE (g) [e.g. 0200 IS 200g RANGE]

- SEE TABULATION FOR CABLE LENGTH TOLERANCE. CABLE LENGTH INCLUDES CONNECTOR IF CONNECTOR IS REQUIRED. EXPOSURE TO UPPER TEMPERATURE LIMIT MAY RESULT IN CABLE JACKET DISCOLORATION; HOWEVER NO REDUCTION TO PERFORMANCE PARAMETERS.
- IMPEDANCE MEASURED ACROSS +OUT (GREEN) AND -OUT (WHITE) VARIES WITH CURRENT (MEASUREMENT MADE AT 250μA).
- CUSTOM CONNECTOR OPTIONS AND EXCITATIONS ARE AVAILABLE. CONTACT MEASUREMENT SPECIALTIES, INC. FOR APPLICABLE MODEL NUMBER.
- SENSITIVITY IS RATIOMETRIC TO THE EXCITATION VOLTAGE.
- ≤1% TRANSVERSE SENSITIVITY AVAILABLE.
- DO NOT REVERSE EXCITATION VOLTAGE POLARITY TO +EXC/-EXC. CASE IS HARD ANODIZED BLACK.

## REVISIONS

REV	DESCRIPTION	DRAWN/DATE	CHECKED/DATE	APPR./DATE
W	-022 OPTION CHANGED.	JZ/1-13-16	AR/1-13-16	RP/1-13-16
Y	-023 OPTION CHANGED.	JZ/3-25-16	AR/3-25-16	RP/3-25-16
AA	-024 OPTION ADDED.	JZ/11-4-16	AR/11-4-16	RP/11-4-16



UNLESS OTHERWISE SPECIFIED:		NAME		DATE	
DIMENSIONS ARE IN INCHES [MM]		DRAWN		D. Wisniewski 12-20-06	
TOLERANCES:		CHECKED		C. Heath 12-20-06	
ANGULAR TWO PLACE DECIMAL $\pm 5^\circ$ $\pm .03$ [.8] THREE PLACE DECIMAL $\pm .010$ [.25]		ENG APPR.		D. Wisniewski 12-20-06	
MATERIAL		MFG APPR.		- -	
FINISH		Q.A. APPR.		- -	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MEASUREMENT SPECIALTIES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MEASUREMENT SPECIALTIES, INC. IS PROHIBITED.		COMMENTS:		TITLE:  Aliso Viejo, CA 92656  <b>MODEL 64B, ACCELEROMETER</b>  SIZE DWG. NO. REV <b>B OD-64B AA</b>  SCALE: WEIGHT: SHEET 1 OF 2	
		DO NOT SCALE DRAWING			
		INTERPRET GEOMETRIC TOLERANCING PER ANSI Y14.5M-1994			

The following table defines standard optional features available on 64B series accelerometers and their part number designations for ordering.  
Part number will be 64B-ZZZZ-ZZZT-XXX

Option Designation -XXX	Standard Optional Feature Description: Product is same as standard product except as noted below.	Customer
-001	Calibrated with 5 VDC excitation	General
-002	Add Lemo FGG.1B.307.CYCD42 connector and wire as drawing AC-S-CONN, Wiring Code A1	General
-003	Add Lemo FGG.1B.307.CYCD42 connector and Dallas chip DS2401 and wire as drawing AC-S-CONN, Wiring Code B1	General
-004	Select units with ZMO < 10 mV	General
-005	Calibrated with 2 VDC excitation	General
-006	Substitute Ø.083 black polyurethane jacketed cable per AC-F02773	Denton
-007	Standard dash no. -2000 product except $\pm 5\%$ to 4000 Hz & $\pm 2$ dB at 7000 Hz	General
-008	Add Lemo FGG.1B.307.CLAD42Z connector and Dallas chip DS2401 and wire as drawing AC-S-CONN, Wiring Code C1, special connector strain relief.	Renault-Sumsung
-009	Add Lemo FGG.1B.307.CYCD42 connector and Dallas chip DS2401 and wire as drawing AC-S-CONN, Wiring Code B2	GM-Shanghai
-014	12 pin Omnetics A22005-001 connector and Dallas chip DS2401 and wire as drawing AC-S-CONN, Wiring Code E1	Insurance institute
-015	Add Lemo FGG.1B.307.CYCD42 connector and Dallas chip DS2401 and wire as drawing AC-S-CONN, Wiring Code B4.	General
-017	Add Omnetics connector and wire as AC-S-CONN, Wiring Code D1.	NUWC
-018	Calibrated with 6 VDC excitation	General
-019	Add Lemo FGG.1B.307.CLAD52Z connector and wire as drawing AC-S-CONN, Wiring Code M1, and add 50 mm transparent shrink tube on cable, not shrunk	Continental Safety Engineering
-020	Add Lemo FGG.1B.307.CLAD52Z connector and wire as drawing AC-S-CONN, Wiring Code A5.	General
-021	Add Lemo FGG.1B.307.CLAD52Z connector and Dallas chip DS2401and wire as drawing AC-S-CONN, Wiring Code M2, and add 50 mm transparent shrink tube on cable, not shrunk	Disynet/LCSB
-022	Add Lemo FGG.1B.307.CLAD52Z connector and wire as drawing AC-S-CONN, Wiring Code A2.	General
-023	Calibrated with 5 VDC excitation. Add Omnetics MCP07-SSR-LT connector and Dallas chip DS2401and wire as drawing AC-S-CONN, Wiring Code R1.	Strain Sense
-024	Standard unit with cable P/N 41TPU4AXON.	General
-00	Unit with dummy resistor bridge of $3000\Omega$ - $4000\Omega$ . Sens < .005mV/g. Available as -2000 only. TZS< $\pm 5$ mV. Cal data supplied: ZMO, sensitivity, Z <sub>in</sub> , Z <sub>out</sub> only.	General

SIZE	DWG. NO.	REV
<b>B</b>	<b>OD-64B</b>	<b>AA</b>
		SHEET 2 OF 2