REVISIONS	
REV	CR/CHANGE
H	HAZARDOUS AREA RATING UPDATED

SPECIFICATIONS

SENSITIVITY, 25°C:	100 ±5 mV/g
ACCELERATION RANGE:	±50 g peak
AMPLITUDE LINEARITY:	±1%
EQUIVALENT NOISE:	75ug (1–10 KHz)
FREQUENCY RESPONSE	2.0 to 5,000 Hz, ±5% 1.5 to 7,500 Hz, ±10% 0.7 to 10,000 Hz, (±3dB)
MOUNTED RESONANT FREQUENCY:	13 KHz
CROSS AXIS SENSITIVITY:	≤5%
TEMPERATURE RANGE:	–54 to +121 °C
SENSITIVITY vs TEMPERATURE:	+.07 %/°C
CASE INSULATION, MIN.:	$>10^8$ ohms
MATING CONNECTOR:	MS3106A–10SL–4S
CASE SEAL:	hermetic
CASE MATERIAL:	stainless steel
POWER:	18 to 28 VDC (POLARITY INDIFFERENT)
CURRENT REGULATING DIODE REQUIRED:	2 to 10 mA
BIAS OUTPUT VOLTAGE:	8 to 12VDC
WEIGHT:	49 grams (1.7 oz)
MOUNTING STUD:	EACH UNIT SUPPLIED WITH ONE MOUNTING STUD. SA6200A–001 1/4–28 UNF–2B (BOTH ENDS) SA6200A–011 1/4–28 UNF–2B TO M6 X 1
MOUNTING TORQUE:	2 to 5 lb–ft

SA6200A – A ☐ B ☐ C ☐

Standard Part Number: SA6200A – X 0 1

A ☐ Hazardous Area Rating

0 = Non–Agency Approved

1 = CSA, Class 1, Div 1, Groups A–D, T3 Intrinsically safe* when connected per dwg 9352

2 = ATEX, EEx ia IIC, T3, Intrinsically safe* when connected per dwg 9352

3 = CSA Class 1, Div 2, Groups A–D, T3 non incendive per dwg 9031

4 = ATEX, Ex nA IIC T3 Gc non incendive when connected per dwg 9031

5 = CSA US/CA, Class 1, Div 2, Groups A–D, T3 (non incendive)
CSA US/CA, Class 1, Div 1, Groups A–D, T3 (I.S. w/barrier)
ATEX/IECEx EX nA IIC T3 Gc (non incendive)
ATEX/IECEx Ex ia IIC T3 Ga (I.S. w/barrier)

6 = IECEx, Ex ia IIC, T3 Ga Intrinsically safe when connected per dwg 9352

7 = IECEx, Ex ia IIC, T3 Gc non incendive when connected per dwg 9031

8 = EAC Ex nA IIC T3 Gc (non indendive)
EAC Ex ia IIC T3 Ga (I.S.w/barrier)

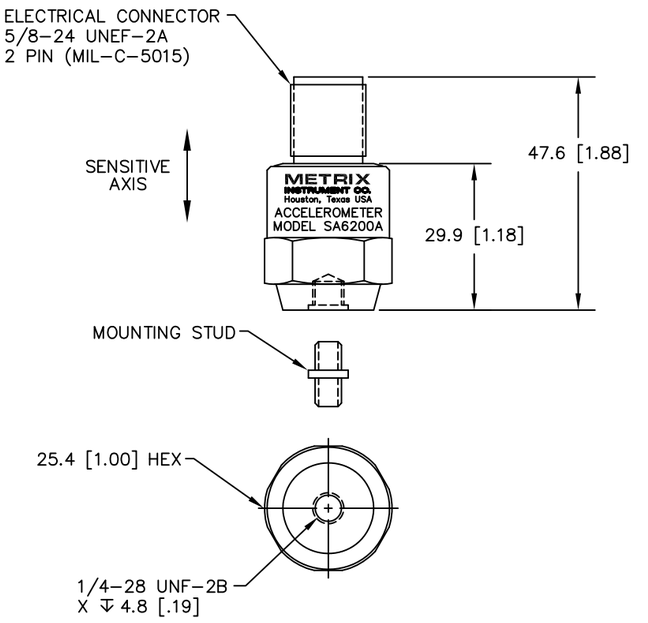
*When wired using approved barrier (not included).

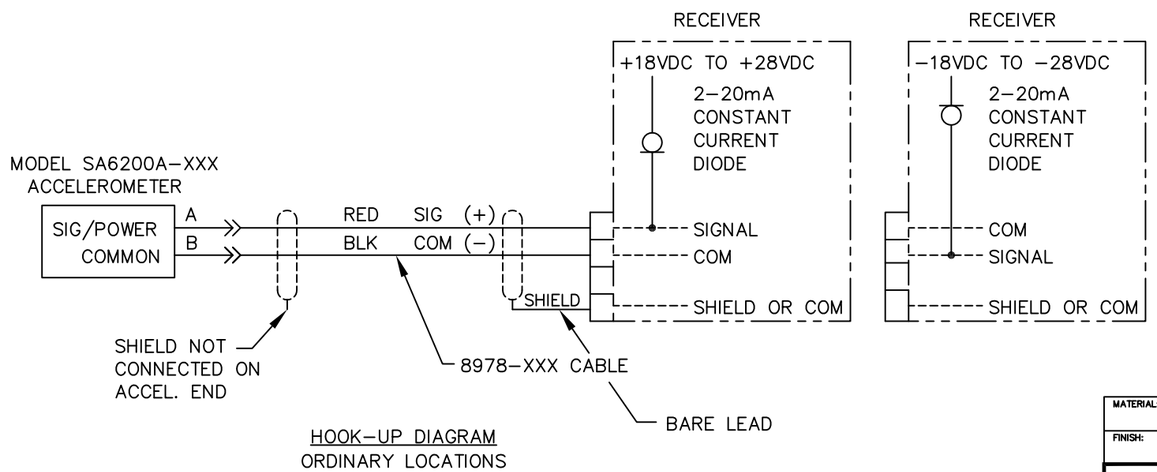
B ☐ Mounting Stud

0 = 1/4–28 UNF
1 = M6 x 1.0
2 = 1/4–20 UNC
3 = NONE
4 = 1/4–28 UNF & M6 x 1.0

C ☐ Connector Type

1 = 2 Pin Hermetic Connector





HOOK–UP DIAGRAM
ORDINARY LOCATIONS

DIMENSIONS IN mm [inches]

MATERIAL:

FINISH:

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. ALL CORNERS BROKEN TO .010 MIN RADIUS AND TOLERANCES ARE:

FRACTIONS: ±1/64 DECIMALS: .XX ±.01 .XXX ±.005

ANGLES: ±1°

SURFACE FINISH 64

	SA6200A
NEXT ASSY	USED ON
APPLICATION	

DO NOT SCALE DRAWING

APPROVALS	DATE
DRAWN BY:	
A. Wilson	01–10–02
CHECKED BY:	
N. Lyons	08–14–02
APPROVED BY:	
D. Dobsky	08–14–02

METRIX HOUSTON, TEXAS USA

SPECIFICATIONS,
SA6200A–XXX ACCELEROMETER

SIZE	DRAWING NO.	REV.
B	9308	H
SCALE: 1:1	SHEET: 1 of 1	