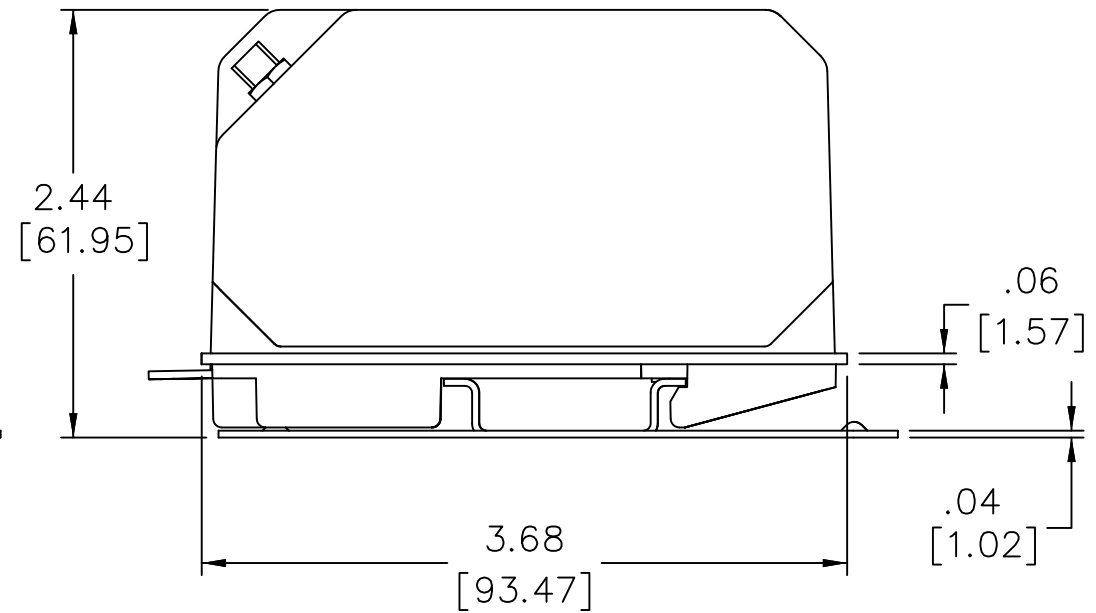
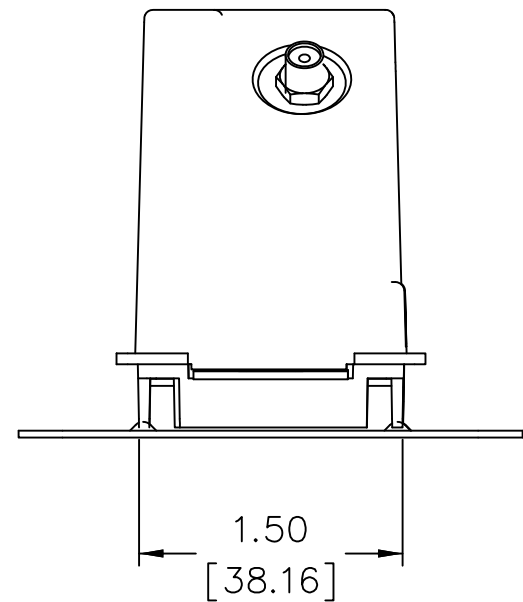
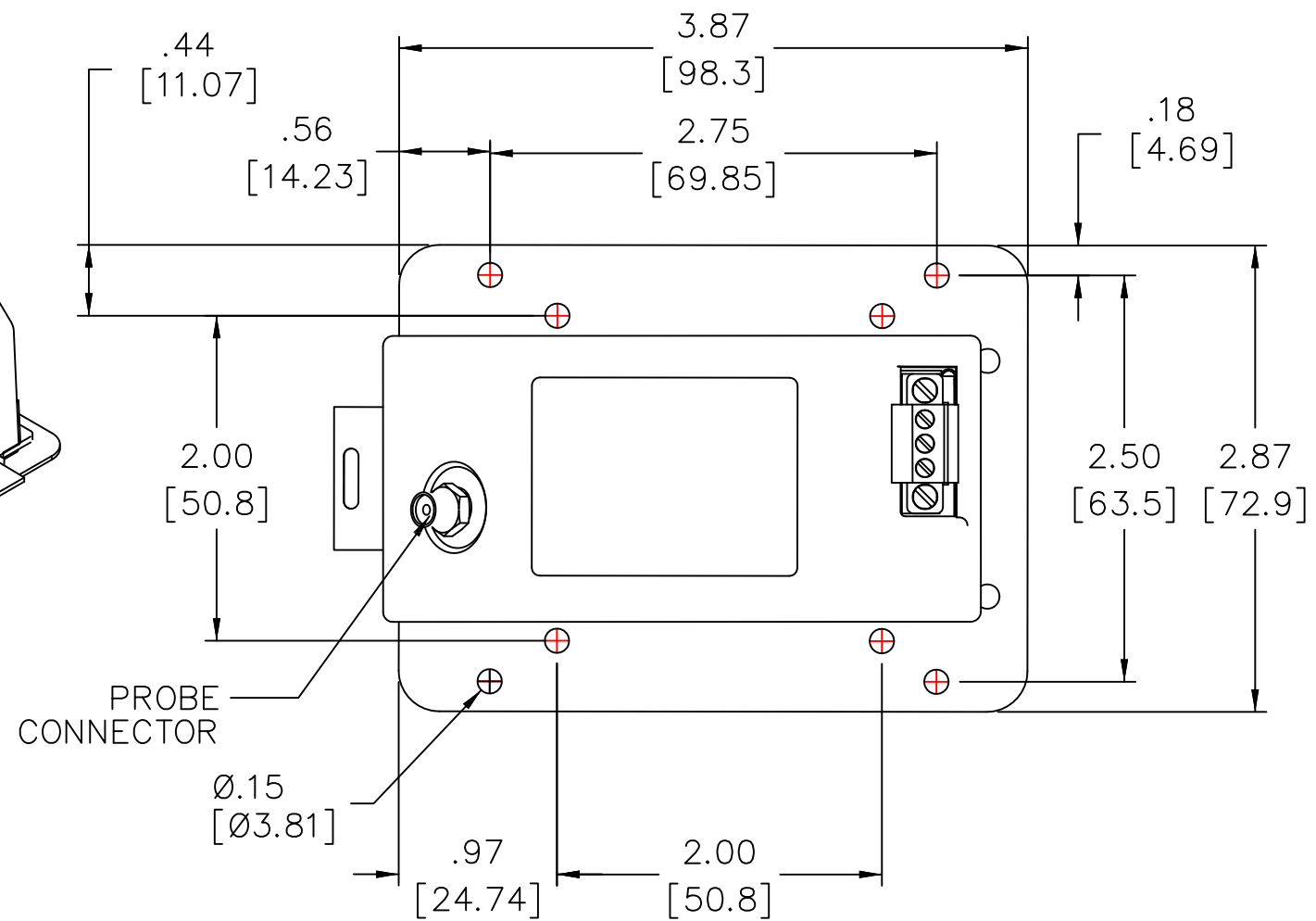
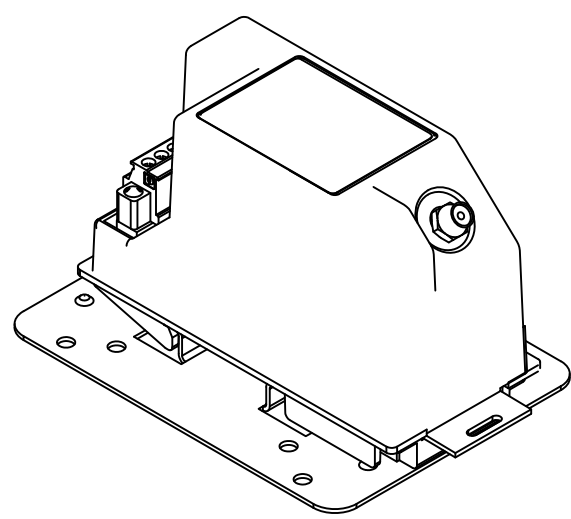




RoHS ALL MATERIALS AND COMPONENTS
MUST BE RoHS COMPLIANT

REVISIONS	
REV	CR/CHANGE
A	RELEASE
B	CONVERTED TO ACAD; CR1299/BREXIT UPDATE

SPECIFICATIONS:

FUNCTION: DC POWERED DRIVER OPERATES WITH A NON-CONTACT PROXIMITY PROBE AND CONVERTS VIBRATION TO A VOLTAGE SIGNAL.

STANDARD TARGET MATERIAL: 4140 STEEL

RESPONSE: TRUE PEAK TO PEAK, PER API STANDARD 670

PROBE CAP RANGE: 5 & 8 mm probes, 10 TO 90 MILS (250 TO 2250 um) LINEARITY: ± 0.8 MIL OF BEST FIT STRAIGHT LINE @ 22°C

FREQUENCY RANGE: BUFFERED OUTPUT: DC to 10KHz, -3dB CURRENT OUTPUT: 4-20mA DC

BUFFERED DYNAMIC OUTPUT AT TERMINAL BLOCK: 5 & 8 mm PROBES: 200 mV/mil (7.8 mV/micron)

SUPPLY VOLTAGE (Vs): 17 TO 30 VDC

PROBE FAILURE: OPEN OR MIS-GAPPED PROBE CAUSES OUTPUT TO FALL BELOW 2 VDC CASE TO

CIRCUIT ISOLATION: 500 VDC; 300 VRMS @ 60 Hz

PROBE CONNECTOR ISOLATION: 100 VDC; 20 VRMS TO 4 KHz TEMPERATURE LIMITS: -40° C TO +85°C

HUMIDITY RANGE: 95% NON-CONDENSINDING, EXTERNAL ENVIRONMENTAL PROTECTION IS REQUIRED.

APPROVALS: CSA CERTIFIED AS NON-INCENDIVE FOR CLASS I, DIVISION 2, GROUPS A, B, C, D WHEN OPERATED WITH Vs = 26 VDC MAXIMUM, AND USED WITH THE METRIX 10,000 SERIES PROBE AND 7402 SERIES CABLE. THE MX2033 IS CERTIFIED AS A COMPONENT ONLY AND MUST BE INSTALLED IN A SUITABLE ENCLOSURE. REFER TO METRIX MANUAL 100545 FOR COMPLETE DETAILS.

CSA CERTIFIED EXPLOSION-PROOF, INTRINSICALLY SAFE FOR CLASS 1, DIV 1, GROUPS A, B, C & D, TEMP CODE T4

BASEEFA 05ATEX0195X
BASEEFA CERTIFIED INTRINSICALLY SAFE Exia IIC T4 (-40°C TO +85°C) WHEN INSTALLED PER DWG B9678
BASEEFA 06ATEX0113X
BASEEFA CERTIFIED NON-INCENDIVE ExnA IIC T4 WHEN INSTALLED PER DWG B9689.

TESTED FOR COMPLIANCE WITH THE APPLICABLE CE ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS.

MOUNTING: (FLAT BASE) INSTALLED. (35mm DIN RA IL) MOUNTING ADAPTOR AVAILABLE. FOR DIN RAIL MOUNTING INSTALLED, ADD 100 TO DASH NUMBER, -001 BECOMES -101.

HOUSING MATERIAL: BLACK GEVALOX® (PBT) POLYMER OR EQUIVALENT.

SPECIAL CONDITIONS OF SAFE USE:

ZONE 2 AREA:

WHEN THE APPARATUS IS BEING USED IN ACCORDANCE WITH THE TYPE OF PROTECTION:
Ex nA IIC T4 (-40°C $\leq$ Ta $\leq$ +85°C), THE APPARATUS MUST BE MOUNTED IN AN ENCLOSURE CAPABLE OF WITHSTANDING A 7 JOULE IMPACT (AT -40°C IF NON-METALLIC) AND PROVIDE A DEGREE OF INGRESS PROTECTION OF AT LEAST IP54.

INTRINSICALLY SAFE: TRANSMITTER MUST BE INSTALLED IN AN ENCLOSURE COMPLYING WITHIN IP 20.



MATERIAL:	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. ALL CORNERS BROKEN TO .010 MIN RADIUS AND TOLERANCES ARE:	APPROVALS	DATE	METRIX HOUSTON, TEXAS USA
FINISH:		DRAWN BY:		
		A. Wilson	05-23-11	
		CHECKED BY:		
THIS DOCUMENT AND ALL INFORMATION HEREON IS THE PROPERTY OF METRIX INSTRUMENT CO. APPROVAL MUST BE OBTAINED BEFORE IT IS REPRODUCED OR INFORMATION HEREON IS ISSUED TO A THIRD PARTY. THIS DOCUMENT MUST BE RETURNED UPON REQUEST.	FRACTIONS: DECIMALS:			SPECIFICATIONS, MX2033 NON-CONTACT PROX DRIVER
	$\pm 1/64$.XX $\pm .01$			
	ANGLES: $\pm 1^\circ$			
	SURFACE FINISH			
	64			
		MX2033		SIZE B
		USED ON		DRAWING NO. 1082697
		APPLICATION	DO NOT SCALE DRAWING	SCALE: 1:1
				SHEET: 1 of 1