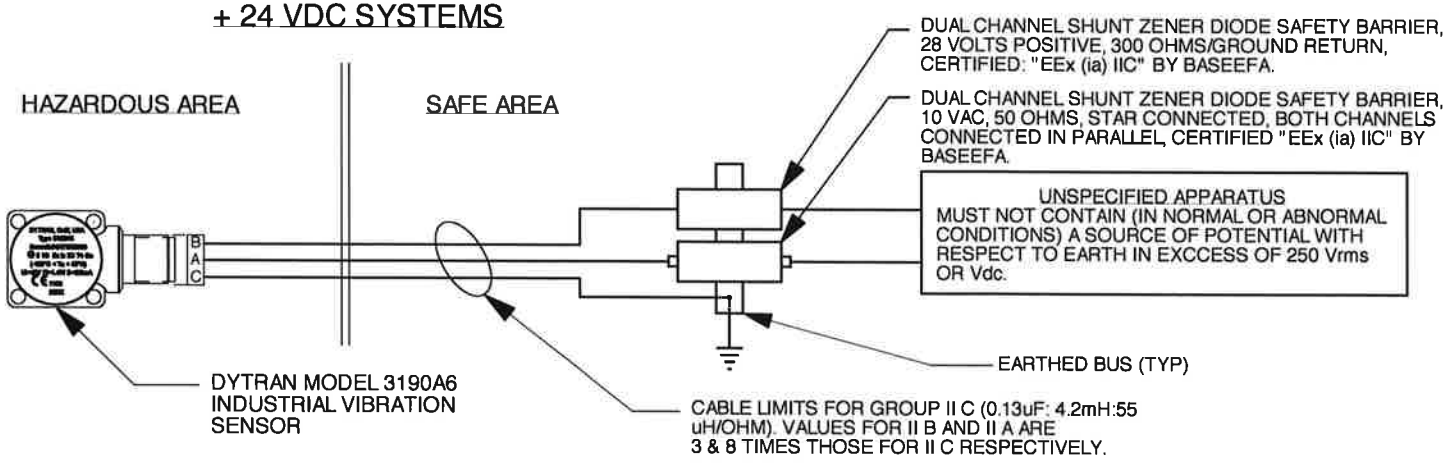
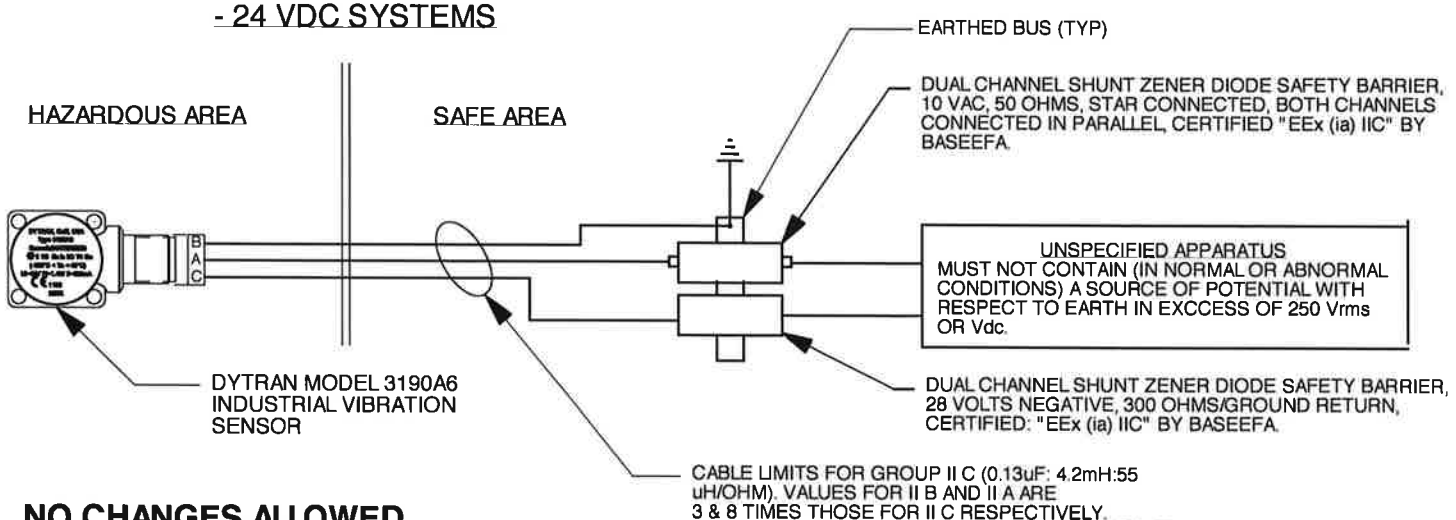
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	12585	SEE ECN	EM 03/30/16		

+ 24 VDC SYSTEMS



- 24 VDC SYSTEMS



NO CHANGES ALLOWED
WITHOUT CONSENT OF
CONFIGURATION CONTROL BOARD
DYTRAN INSTRUMENTS, INC.

ENG _____ QA _____

1. THE INSTALLATION MUST CONFORM TO THE APPROPRIATE NATIONAL STANDARD, e.g., IN THE UK: THE LATEST ISSUE OF BS 5345: PART 4: DATED 1977.

NOTES: UNLESS OTHERWISE SPECIFIED

MASTER
ONLY IF IN RED

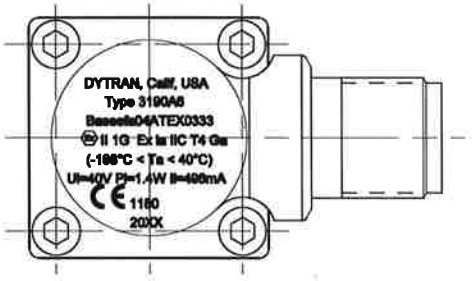
DYTRAN INSTRUMENTS, INC. CHATSWORTH, CA.

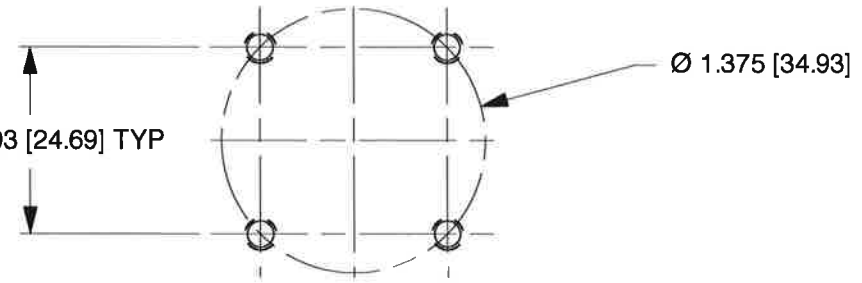
SCALE 1X	REV -	DATE -	ECN SEE REV BLOCK		
DATE 12/20/04	PART NO. 3190A6				
DRAWN N.C.	CHECKED R.A.	MAT'L -			
APPROVED PML 12/21/04	NEXT ASSEMBLY -		USED ON 3190A6		

TITLE
INSTALLATION DRAWING, MODELS 3190A6 (POSITIVE POWER) & (NEGATIVE POWER)

DWG NO. **127-3190A6**

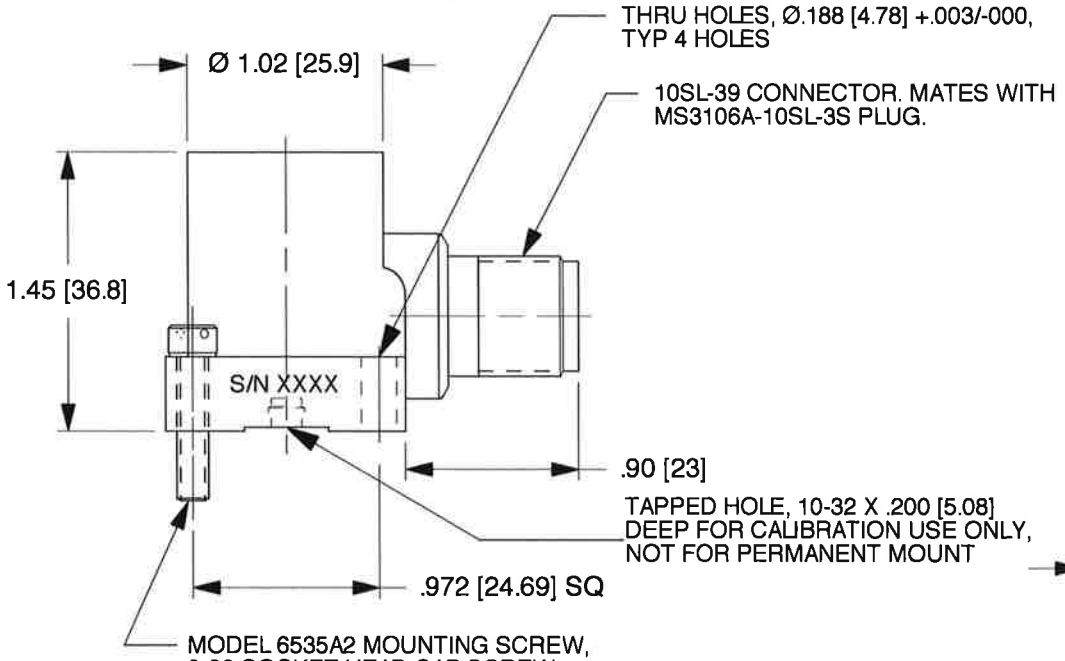
SHEET 1 OF 2

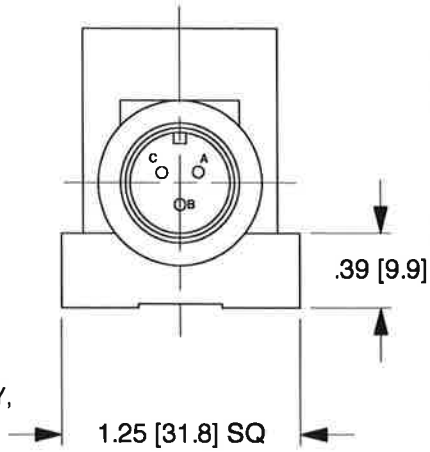




DETAIL 'A'

MOUNTING HOLE PATTERN: ON Ø1.375 [34.93] B.C.
DRILL Ø.136 [3.45] X .50 [12.7] DEEP, MIN.
TAP 8-32 UNC-2B X .38 [9.7] MIN. DEPTH
4-HOLES EQUALLY SPACED





CONNECTOR PINOUT: +24 VDC SYSTEM
PIN A: OUTPUT SIGNAL
PIN B: **+24 VDC POWER**
PIN C: POWER/SIG RETURN

CONNECTOR PINOUT: -24 VDC SYSTEM
PIN A: OUTPUT SIGNAL
PIN B: POWER/SIG RETURN
PIN C: **-24 VDC POWER**

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CONFIGURATION CONTROL BOARD
DYTRAN INSTRUMENTS, INC.

ENG _____ QA _____

4. GROUND ISOLATION: ALL CONNECTOR PINS ELECTRICALLY ISOLATED FROM OUTER CASE.
3. SEAL: HERMETIC.
2. CASE MATERIAL: 304L STAINLESS STEEL. CONNECTOR MATERIAL: 316L STAINLESS STEEL.
1. WEIGHT: 180 GRAMS, MAX.

DYTRAN INSTRUMENTS, INC. MASTER ONLY IF IN RED CHATSWORTH, CA.

SCALE 1X	REV -	DATE -	ECN -			
DATE 7/7/04	PART NO. MODEL 3190A6					
DRAWN N.C.	CHECKED R.A.	MAT'L				
APPROVED	NEXT ASSEMBLY		USED ON 3190A6			

TITLE
OUTLINE/INSTALLATION DRAWING, MODEL 3190A6, 100 mV/g, NEGATIVE POWER

DWG NO.
127-3190A6

SHEET 2 OF 2

Model Number 3190A6	PERFORMANCE SPECIFICATION	DOC NO PS3190A6
	SINGLE AXIS ACCELEROMETER	REV B, ECN 15838, 07/13/20

- **ATEX CERTIFIED**
- **CRYOGENIC USE**
- **HERMETICALLY SEALED**

		ENGLISH		SI	
PHYSICAL					
Weight, Max		6.35	oz	180	grams
Mounting Provision		[4]		[4]	
Connector		3PIN, MS3106A-10SL-3P		3PIN, MS3106A-10SL-3P	
Material : Case and Connector		300 Series Stainless Steel		300 Series Stainless Steel	
PERFORMANCE					
Sensitivity, ±5% [1]		100	mV/g	10.19	$mV/m/s^2$
Range F.S for ± 5 Volts Output		±50	g	±490	m/s^2
Frequency Range [2]	±10%	2 to 5000	Hz	2 to 5000	Hz
	±3 db	0.5 to 8000	Hz	0.5 to 8000	Hz
Resonant Frequency		> 20	kHz	> 20	kHz
Equivalent Electrical Noise Floor		0.007	Grms	0.07	m/s^2 rms
Linearity, Max (Zero based best fit straight line method)		± 2%	% F.S.	± 2%	% F.S.
Maximum Transverse sensitivity		5	%	5	%
Strain Sensitivity, Max		0.001	g/με	0.01	$m/s^2/με$
ENVIRONMENTAL					
Maximum Vibration		±200	G's,peak	±1962	m/s^2 peak
Maximum Shock		±2000	G's,peak	±19620	m/s^2 peak
Maximum Ambient Pressure		300	psi	2.07	MPa
Temperature Range		-320 to +250	°F	-196 to +121	°C
Seal, Accelerometer		Hermetic		Hermetic	
ELECTRICAL					
Excitation Voltage		-24 (-26 Maximum for Intrinsically safe circuits)	VDC	-24 (-26 Maximum for Intrinsically safe circuits)	VDC
Excitation Current Range [5]		5	mA	5	mA
Output Impedance,Typ		50	Ω	50	Ω
Output DC Bias (with -24 VDC Supply Voltage) [3]		-15	-VDC	-15	-VDC
Full Scale Output		±5	Volts	±5	Volts
Discharge Time Constant		0.35 to 1.0	Sec	0.35 to 1.0	Sec
Output Signal Polarity for Acceleration Towards Top		Positive		Positive	

This family also includes:

Model	Sensitivity	Range F.S ± 5 Volts	Max Vibration/Shock	Resonant Frequency

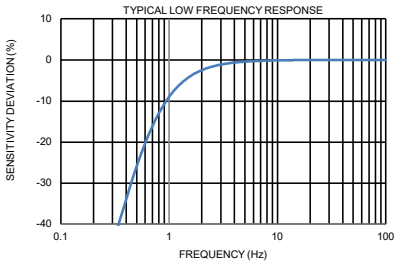
Refer to the performance specifications of the products in this family for detailed description

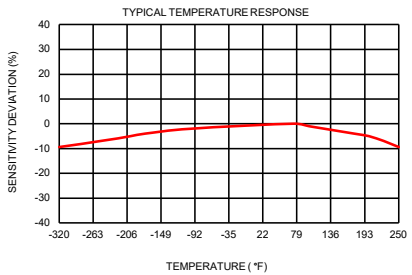
Supplied Accessories:

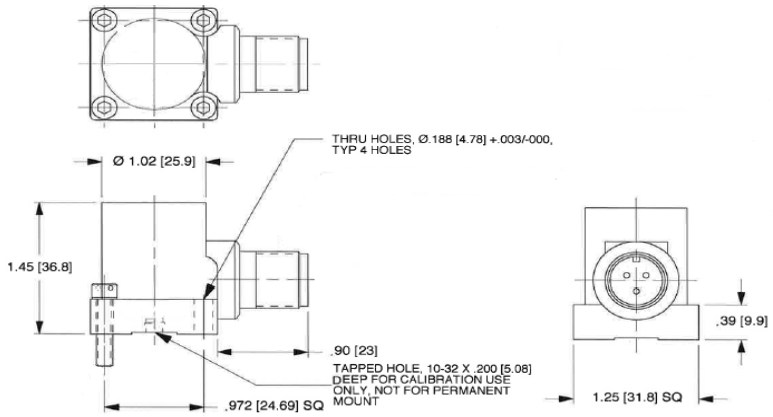
1) Accredited calibration certificate (ISO 17025)
2) Model 6535A2 mounting screw, qty 4

Notes:

[1] A calibration certificate traceable to NIST is supplied with each instrument.
[2] Measured at 1G, RMS vibration level, back to back comparison method per ISA RP 37.2 with equivalent capacitive load of 2 Kilometers of cable at 8.8 pF/M (.0176 µF).
[3] This voltage varies directly with supply voltage.
[4] Clearance holes on 1.375 inch dia B.C. in 1.25 square flange.
[5] Current increases 1.0 mA per .003 µF (3000 pF) cable capacitance.







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3190A6 for more information.

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com