

3. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.
2. MODEL E4114B1 REQUIRES 220 VAC POWER.
1. WEIGHT- 2.25 LBS

EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES

TOLERANCE: .XXX = ± .XX = ±

SURFACE FINISH EXCEPT AS NOTED ✓

BREAK EDGES TO DEBURR RADIUS OR CHAMFER


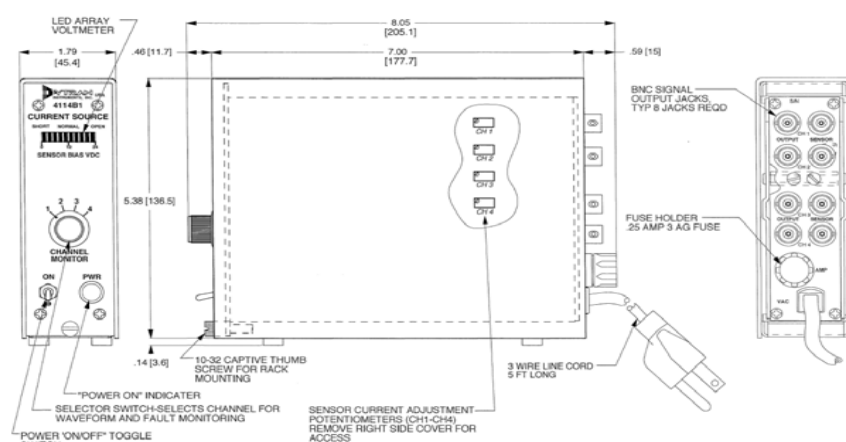
△ THESE DIAS TO T.I.R.


FILLET: MAX. RAD.

**MASTER ONLY IF IN RED**

DIYTRAN INSTRUMENTS, INC. CHAS. SWORTH, CA.

SCALE	1X	REV	A	DATE	3-8-11	ECN	7405
DATE	1/5/2000	PART NO.	4114B1				
DRAWN	R.A.	CHECKED	N.C.	MATL	REV A		
APPROVED	NEXT ASSEMBLY		USED ON		4114B1		
TITLE							DWG NO.
OUTLINE INSTALLATION DRAWING, MODEL 4114B1							127-4114B1
SHEET							1 OF 1

Model Number 4114B1		PERFORMANCE SPECIFICATIONS				DOC NO PS4114B1																																					
		Current Source Power Unit				REV B, ECN 13446, 05/03/17																																					
		<ul style="list-style-type: none"><li>• POWERS IEPE SENSORS</li><li>• SUPPLIES 2 TO 20mA OF CONSTANT CURRENT</li></ul>				<b>This family also includes:</b> <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Frequency Response (Hz)</th><th>Time Constant (Sec)</th><th>Operating Temp (°F)</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>		Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)																															
Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)																																							
		Refer to the performance specifications of the products in this family for detailed description				<b>Supplied Accessories:</b> 1) Accredited calibration certificate (ISO 17025)																																					
		<b>Notes:</b> [1] Measured at 1000Hz, 1.00 Volt RMS output amplitude. [2] Determined by sensor, cable length, and sensor drive current. [3] 115 VAC, 50-60 Hz for standard models. Export "E" versions require 230 VAC, 50-60Hz. [4] Factory adjusted to 5 mA ±1mA.																																									
<b>PHYSICAL</b> Weight, Max Size (Height x Width x Depth) Housing Material Sensor Connector Output Connector De-coupling Capacitor Pull-Down Resistor Power Cord, 3-Wire, with Ground		<table><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr><tr><td>36</td><td>oz</td><td>1021</td><td>grams</td></tr><tr><td>5.4 x 1.8 x 7.0</td><td>in</td><td>137 x 46 x 178</td><td>mm</td></tr><tr><td>Aluminum Alloy</td><td></td><td>Aluminum Alloy</td><td></td></tr><tr><td>BNC Jack</td><td></td><td>BNC Jack</td><td></td></tr><tr><td>BNC Jack</td><td></td><td>BNC Jack</td><td></td></tr><tr><td>10</td><td>μF</td><td>10</td><td>μF</td></tr><tr><td>1</td><td>MΩ</td><td>1</td><td>MΩ</td></tr><tr><td>6</td><td>FT</td><td>1.8</td><td>m</td></tr></table>		ENGLISH		SI		36	oz	1021	grams	5.4 x 1.8 x 7.0	in	137 x 46 x 178	mm	Aluminum Alloy		Aluminum Alloy		BNC Jack		BNC Jack		BNC Jack		BNC Jack		10	μF	10	μF	1	MΩ	1	MΩ	6	FT	1.8	m				
ENGLISH		SI																																									
36	oz	1021	grams																																								
5.4 x 1.8 x 7.0	in	137 x 46 x 178	mm																																								
Aluminum Alloy		Aluminum Alloy																																									
BNC Jack		BNC Jack																																									
BNC Jack		BNC Jack																																									
10	μF	10	μF																																								
1	MΩ	1	MΩ																																								
6	FT	1.8	m																																								
<b>PERFORMANCE</b> Voltage Gain, ± 1% [1] Coupling Time Constant Lower -3db Frequency High Frequency Response Background Electrical Noise Temperature Range		<table><tr><td>1</td><td></td><td>1</td><td></td></tr><tr><td>10</td><td>Sec</td><td>10</td><td>Sec</td></tr><tr><td>1</td><td>Sec</td><td>1</td><td>Sec</td></tr><tr><td>0.016</td><td>Hz</td><td>0.016</td><td>Hz</td></tr><tr><td>0.03</td><td>Hz</td><td>0.03</td><td>Hz</td></tr><tr><td>[2]</td><td></td><td>[2]</td><td></td></tr><tr><td>150</td><td>μV, RMS</td><td>150</td><td>μV, RMS</td></tr><tr><td>0 to +185</td><td>°F</td><td>-18 to +85</td><td>°C</td></tr></table>		1		1		10	Sec	10	Sec	1	Sec	1	Sec	0.016	Hz	0.016	Hz	0.03	Hz	0.03	Hz	[2]		[2]		150	μV, RMS	150	μV, RMS	0 to +185	°F	-18 to +85	°C								
1		1																																									
10	Sec	10	Sec																																								
1	Sec	1	Sec																																								
0.016	Hz	0.016	Hz																																								
0.03	Hz	0.03	Hz																																								
[2]		[2]																																									
150	μV, RMS	150	μV, RMS																																								
0 to +185	°F	-18 to +85	°C																																								
<b>ELECTRICAL</b> Power Required Sensor Drive Current Adjustment Range [4] Compliance (Supply) Voltage (±1VDC)		<table><tr><td>[3]</td><td>VAC</td><td>[3]</td><td>VAC</td></tr><tr><td>2 to 20</td><td>mA</td><td>2 to 20</td><td>mA</td></tr><tr><td>+24</td><td>VDC</td><td>+24</td><td>VDC</td></tr></table>		[3]	VAC	[3]	VAC	2 to 20	mA	2 to 20	mA	+24	VDC	+24	VDC																												
[3]	VAC	[3]	VAC																																								
2 to 20	mA	2 to 20	mA																																								
+24	VDC	+24	VDC																																								
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4114B1 for more information.																																									



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com  
For permission to reprint this content, please contact info@dytran.com



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 [www.dytran.com](http://www.dytran.com)  
 For permission to reprint this content, please contact [info@dytran.com](mailto:info@dytran.com)