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DWG NO 127-4758A SH 1 REV A

PROPRIETARY AND CONFIDENTIAL

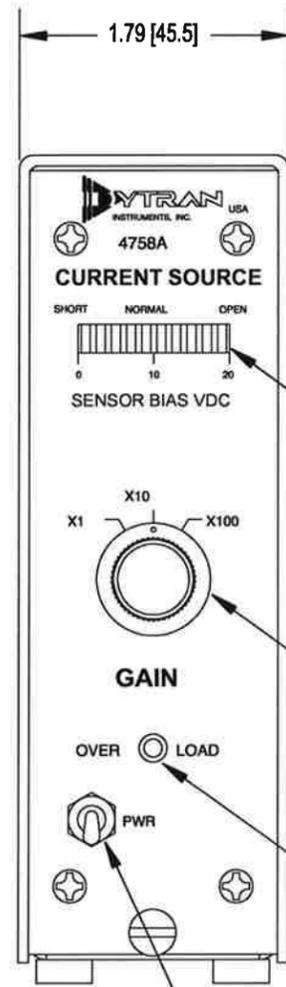
REVISIONS

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REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11435	INITIAL RELEASE	JS 01/05/15	LA	R

D

D



LED VOLTMETER

3 POSITION GAIN SWITCH

OVER LOAD INDICATOR

POWER ON/OFF TOGGLE SWITCH

10-32 CAPTIVE THUMB SCREW FOR RACK MOUNTING

C

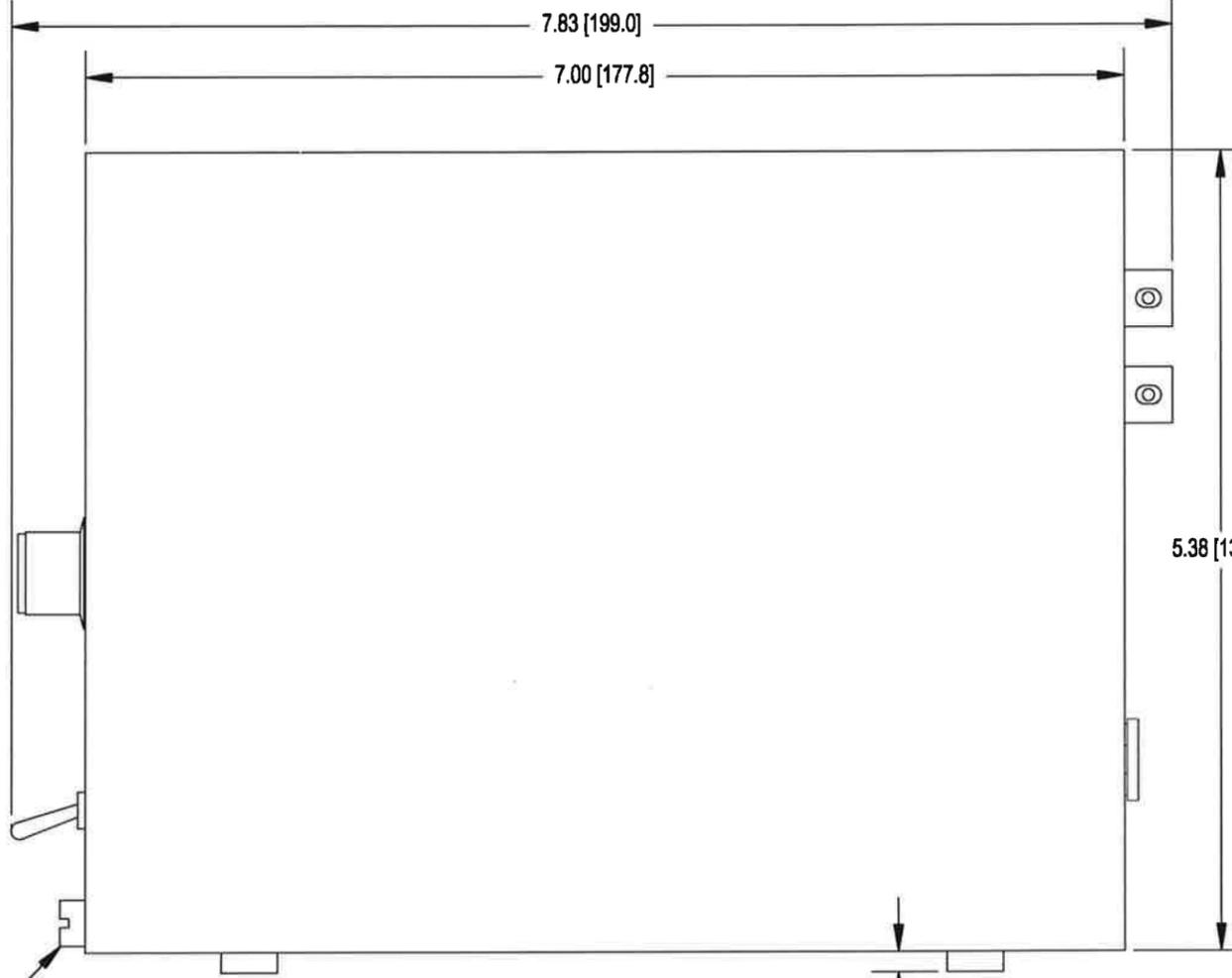
C

B

B

A

A



BNC SIGNAL OUTPUT JACK

BNC SENSOR JACK

24 VDC POWER CONNECTOR

UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS .00; TO MAJOR DIA. CHAM EXT THDS .46; TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. DIMENSIONS APPLY AFTER FINISHING.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] INCHES. TOLERANCES ARE: DECIMALS METRIC ANGLES .XX ± .03 .XX ± 0.8 ± 1° .XXX ± .010 .XXX ± 0.25

ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADI .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.

DYTRAN INSTRUMENTS, INC. MASTER ONLY IF IN RED

TITLE: OUTLINE/ INSTALLATION DRAWING, MODEL 4758A

APPROVALS	DATE	SIZE	CAGE CODE	DWG NO	REV
ORG JS	12/16/14	B	2W033	127-4758A	A
CHK LA	1/6/15	SCALE: NONE		SHEET 1 OF 1	
APP R	1/6/15				

DO NOT SCALE DRAWING

1. AC TO 24 VDC POWER SUPPLY (NOT SHOWN) SUPPLIED. NOTES: UNLESS OTHERWISE SPECIFIED

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Model Number 4758A	PERFORMANCE SPECIFICATIONS	DOC NO PS4758A
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	Current Source Power Unit		REV A, ECN 11435, 01/05/15
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- POWERS IEPE SENSORS
- SUPPLIES 4mA OF CONSTANT CURRENT
- SELECTABLE GAIN FACTORS OF x1, x10, x100

This family also includes:

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

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) AC to DC power supply

Notes:

- [1] Measured at 1000Hz, 1.00 Volt RMS output amplitude
- [2] Measured with ten feet of input (sensor) cable. Longer cables will degrade high frequency in accordance with length and capacitance per foot.
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] The LED array monitor meter reads the voltage bias of the sensor. Normal operation will illuminate one of the central bars. No sensor connected or an open sensor or cable will light the right hand bar. A shorted sensor or cable will light the left hand bar.
- [5] Connectors are case ground isolated.

PHYSICAL

Weight, Max
Size (Height x Width x Depth)
Housing Material

ENGLISH		SI	
26	oz	750	grams
5.4 x 1.8 x 7.0	in	13.7 x 4.6 x 17.8	cm
Aluminum Alloy		Aluminum Alloy	

PERFORMANCE

Voltage Gain, ± 1% [1]

x1
x10
x100

1	1
10	10
100	100

Frequency Response, ±3db [2]

x1
x10
x100

.16 to 200k	Hz	.16 to 200k	Hz
.16 to 60k	Hz	.16 to 60k	Hz
.16 to 6k	Hz	.16 to 6k	Hz

Output Noise, Broadband

x1
x10
x100

0.045	mV, RMS	0.045	mV, RMS
0.3	mV, RMS	0.3	mV, RMS
0.8	mV, RMS	0.8	mV, RMS

DC Voltage Offset

x1
x10
x100

<5	mVDC	<5	mVDC
<100	mVDC	<100	mVDC
<500	mVDC	<500	mVDC

Linearity [3]

±1	% F.S.	±1	% F.S.
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Full Scale Output Voltage Swing, Min.

±5	Volts	±5	Volts
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Maximum Output Voltage Swing

±10	Volts	±10	Volts
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Sensor Drive Current, Fixed

4	mA	4	mA
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Sensor Excitation (Compliance Voltage)

+20	VDC	+20	VDC
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Discharge Time Constant

0.5 to 2.0	Sec	0.5 to 2.0	Sec
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Line Voltage

110-230	VAC	110-230	VAC
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Polarity

Non-Inverting		Non-Inverting	
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Bias Monitor Meter, Front Panel [4]

10 Segment LED Bar Graph		10 Segment LED Bar Graph	
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Overload Indicator, Red LED, Front Panel

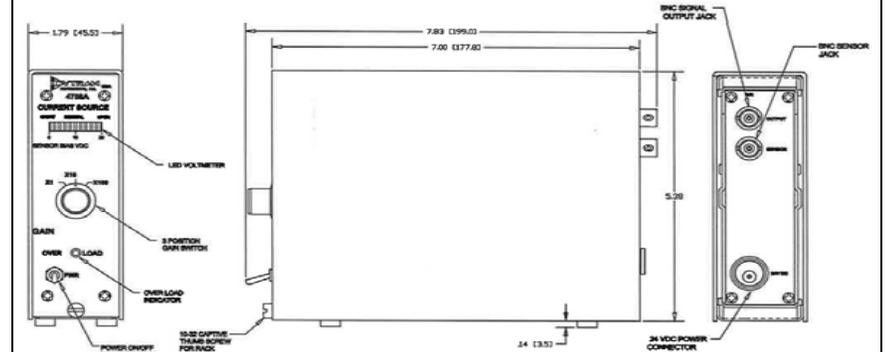
Glows when voltage swings to within .5 volt of rail		Glows when voltage swings to within .5 volt of rail	
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Sensor Connector, Rear Panel [5]

BNC Jack		BNC Jack	
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Output Connector, Rear Panel [5]

BNC Jack		BNC Jack	
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Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4758A for more information.



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