

FUTEK MODEL QIA117 IN-LINE AMPLIFIER WITH ALUMINUM ENCLOSURE

ITEM NUMBER: SEE CHART Δ

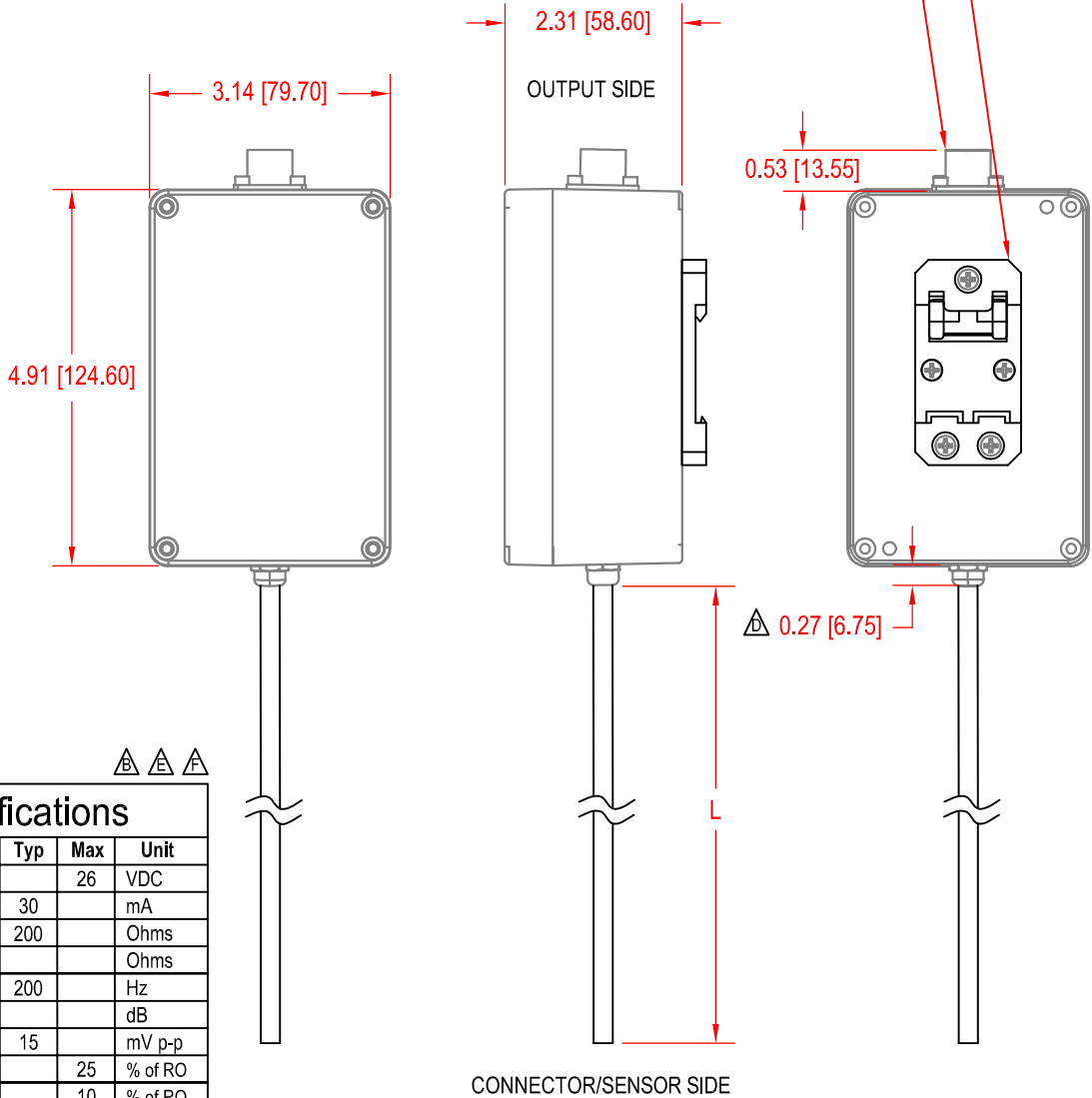
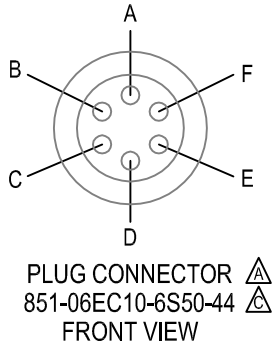
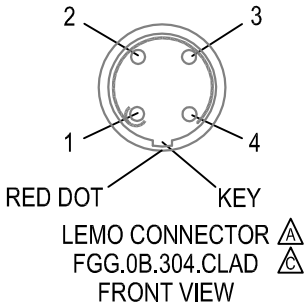


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INCH [mm]		R.O.= Rated Output	
WIRING CODE (SENSOR)			
+ EXC	- EXC	+ SIG	- SIG
Pin 1 / A / Red	Pin 4 / B / Black	Pin 2 / C / Green	Pin 3 / D / White

WIRING CODE (OUTPUT)			
POWER	GND	VRET	VOUT
Pin A / Red	Pin B / Black	Pin C / White	Pin D / Green



Electrical Specifications				
Parameter	Min	Typ	Max	Unit
Power Supply	14		26	VDC
Current Dissipation*		30		mA
Output Impedance (voltage)		200		Ohms
Sensor Impedance	100			Ohms
Frequency Response -3dB BW		200		Hz
Common Mode Rejection Ratio	120			dB
Noise		15		mV p-p
Output Span Range	-25		25	% of RO
Output Zero Range	-10		10	% of RO
	Gain			
	1	±0.0003	±0.0020	% of FSR
	10	±0.0005	±0.0040	% of FSR
Nonlinearity	100	±0.0005	±0.0040	% of FSR
	500	±0.0044	±0.0088	% of FSR
	1000	±0.0020	±0.0200	% of FSR

Item #	Sensor Side	L	Termination
QSH01356	6 Pin Bendix 851-06EC10-6S50-44	48" [1.2 m]	Connector
QSH01366	4 Pin Lemo FGG.0B.304.CLAD	48" [1.2 m]	Connector
QSH01367	LSB200	N/A	Strain Relief Δ

*No Load Applied (Input or Output)

CUSTOMER APPROVAL-COMPANY
CUSTOMER APPROVAL-NAME /DATE
REVISIONS: (Refer to dwg # revision sheet)
Δ 06-29-2010 Δ 09-13-2016
Δ 03-08-2011
Δ 10-03-2011
Δ 04-05-2013
Δ 05-08-2013

OUTLINE DRAWING

STANDARD NOTES: (Unless Otherwise Specified)

- ALL DIMENSIONS ARE IN INCHES
- DRAWING INTERPRETATION DIMS. PER ASME-Y14.5M
- REMOVE BURRS AND BREAK SHARP EDGES .005 - .015
- THREADS PER HANDBOOK H-28
- DIMENSIONS ARE SHOWN AFTER PLATING

3rd ANGLE PROJ.



ANGLE: ±1/2°

CHAMFER: ±5°

TOLERANCE:
 .X ±0.1
 .XX ±0.01
 .XXX ±0.005

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CAGE: 1X8M6

MODEL: **QIA117**

DWG No.: **FO1264-F**

DRAWN BY: *G. Sabet*

CHECKED BY: -

APPROVED BY: *B.F. MOGHADDAM*

DATE: **May. 08, 2013**