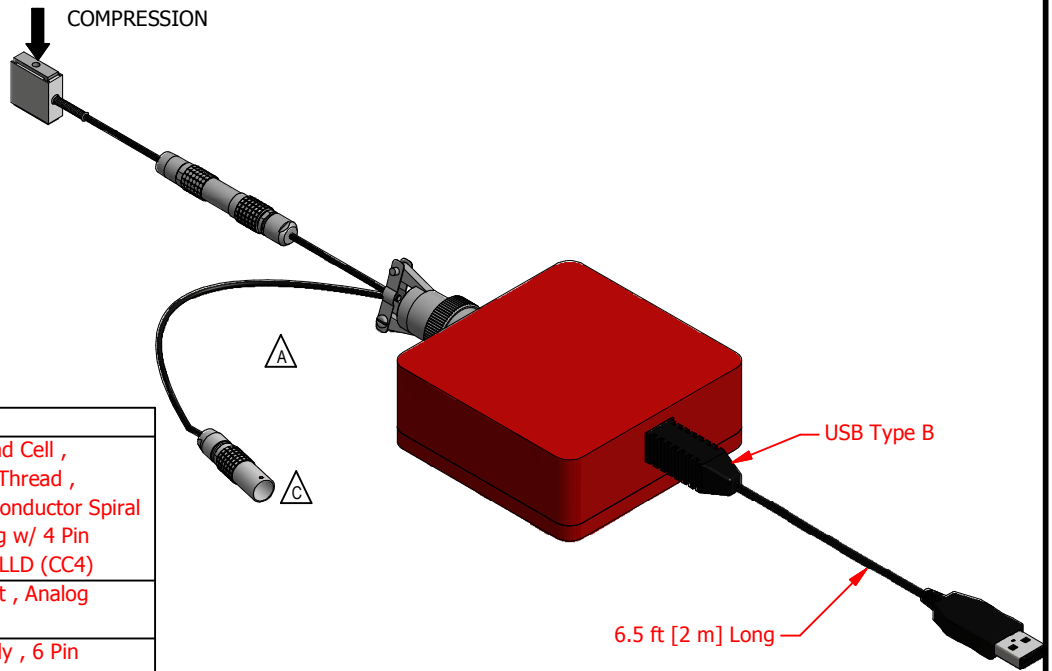


FUTEK MODEL LSB200 & QIA121

Robust S-Beam Junior Load Cell with Low Noise, High Speed, and High Resolution USB, and Voltage Output

ITEM NUMBER: See Table on Page 1

INCH [mm] | R.O.= Rated Output



Item #	Description
QSH01738	LSB200 , 2500 g , JR S-Beam Load Cell , Material - 17-4 PH S.S. , M3x0.5-Thread , Overload Protection , 29 Awg 4 Conductor Spiral Shielded Silicone Cable , 1 ft Long w/ 4 Pin Lemo Receptacle - PHG.0B.304.CLLD (CC4)
QSH01707	QIA121 , USB and Voltage Output , Analog Output , Red Powder Coated
FSH03813	QIA121 Cable Connector Assembly , 6 Pin Bendix (PT06A-10-6S-SR) to 4 Pin Lemo (FGG.0B.304.CLAD35) and 2 Pin Lemo (PHG.0B.302.CLLD42), 2x 29 Awg 4 Conductor Spiral Shielded , 6.5 ft Long and 1.64 ft long

SPECIFICATIONS

OUTPUTS	ASCII and 0-10 VDC	△	Bandwidth	1 kHz
CAPACITY	2500 g [24.5 N]	△ A △ B	Bridge Excitation	10 VDC △ A △ B
SAFE OVERLOAD	1000% of R.O. (Compression)		Gain Adjustment	Field Programmable
POWER SUPPLY (VDC)	USB Bus		Offset Adjustment	Field Programmable
NONLINEARITY	±0.1% of R.O.		Integrated Shunt	Field Programmable
HYSTERESIS	±0.1% of R.O.		CMRR	120 db
NONREPEATABILITY	±0.05% of R.O.		Analog Noise Output	< 8 mVp-p △ A △ B
TEMP. SHIFT ZERO	±0.02% of R.O./°F (±0.036 of R.O./°C)		Internal Resolution	24 bit
TEMP. SHIFT SPAN	±0.02% of LOAD/°F (±0.036 of LOAD/°C)		Noise Free Bits	up to 19 bits
COMPENSATED TEMP (Sensor Only)	13 to 113 °F (-11 to 45 °C)	△ A △ B	ASCII Output Format	8 Character Hex Format (24 bit)
OPERATING TEMP	32 to 158 °F (0 to 70 °C)		Integrated Pigtail Filter	50/60 Hz Rejection
MATERIAL (Sensor)	17-4 PH S.S.	△ A △ B		
IP RATING (Sensor)	IP40			
CALIBRATION:	5 pt Compression			
SENSOR CABLE:	29 AWG, 4 Conductor, Spiral Shielded Silicone Cable w/ 4 Pin Lemo Plug PHG.0B.304.CLLD	△ B		
QIA121 CABLE:	USB Cable A-B Mate Double Shielded			
QIA121 CONNECTOR:	6 Pin Bendix PT02E-10-6P	△ B		

Sampling Rate	Resolution (Noise Free Bits)
5	19
50	18
100	17
300	16.5
1200	15.5

CUSTOMER APPROVAL- COMPANY:

OUTLINE DRAWING

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FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.
10 THOMAS, IRVINE, CA 92618 USA
Phone: (949) 465-0900
Fax: (949) 465-0905

CUSTOMER APPROVAL- NAME / DATE:

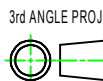
STANDARD NOTES: (Unless Otherwise Specified)

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

ANGLE:
± 1/2°

CHAMFER:
± 5°

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



MODEL: **LSB200 & QIA121**

DWG No.: **FO1355-C**

DRAWN BY: *E. Pano*

CREATED DATE: *9/20/2013*

APPROVED BY: *R. Walker*

APPROVED DATE: *3/27/2014*

CHECKED BY:

CAGE: 1X8M6 SHEET: 1 OF 3

REVISIONS: (Refer to dwg # revision sheet)

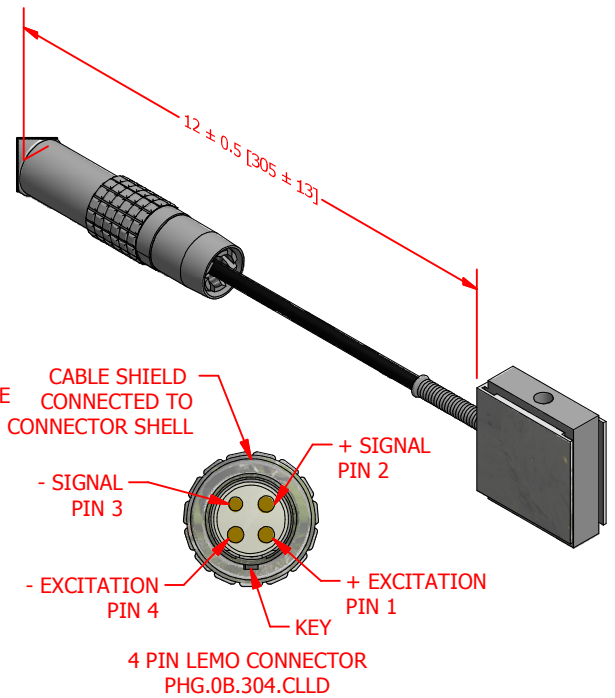
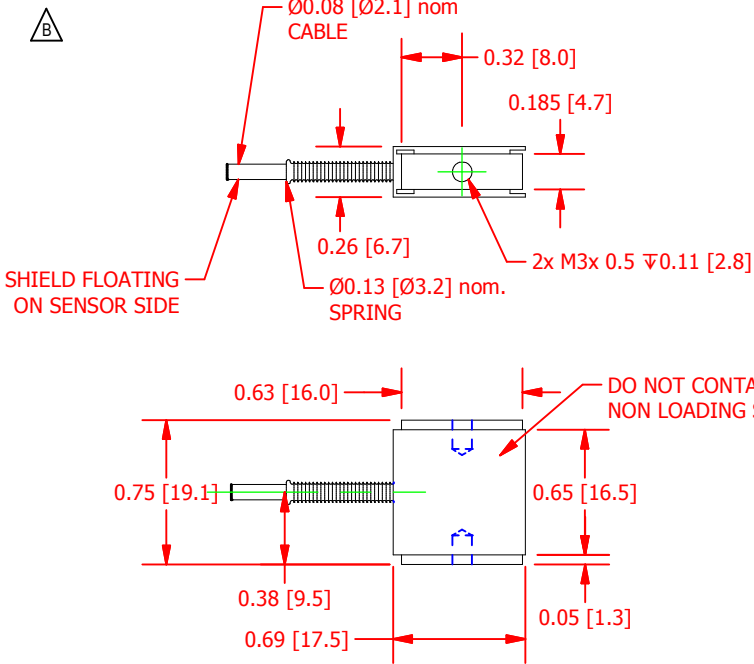
A	12/17/13
B	3/27/2014
C	5/7/2014

FUTEK MODEL LSB200 & QIA121

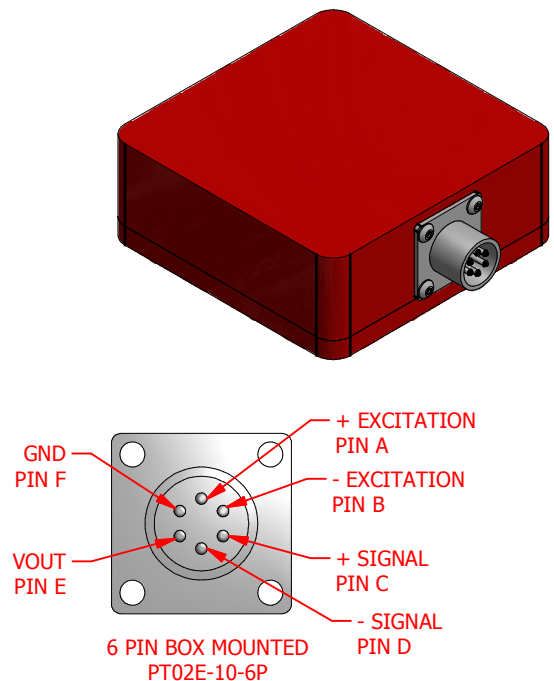
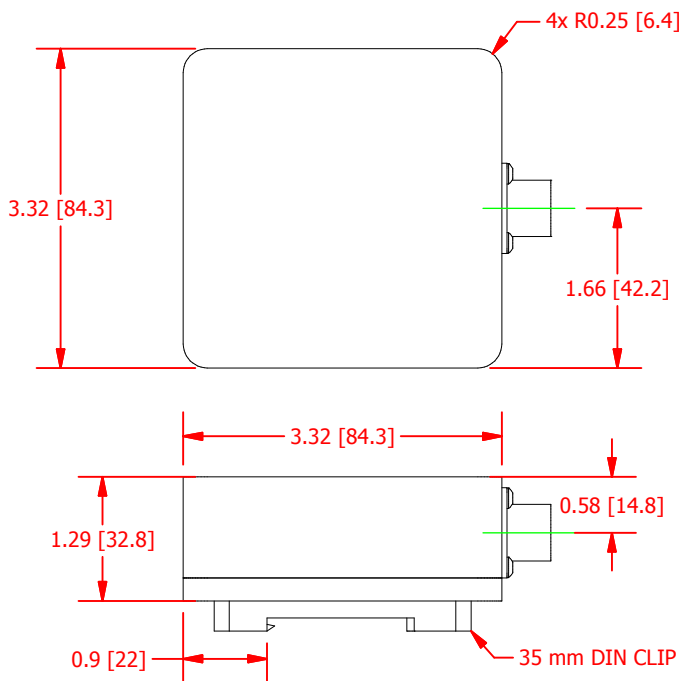
Robust S-Beam Junior Load Cell with Low Noise, High Speed, and High Resolution USB, and Voltage Output

ITEM NUMBER: See Table on Page 1

INCH [mm] | R.O. = Rated Output



ITEM#: QSH01738



ITEM#: QSH01707

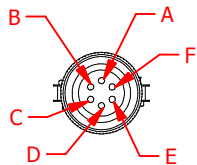
CUSTOMER APPROVAL- COMPANY:	<h2 style="color: green;">OUTLINE DRAWING</h2>	<p><i>This drawing is submitted solely for the information and exclusive use of the original addressee. It is not to be divulged in whole or in part, by any firm or individual without written permission from:</i></p>	<p>ADVANCED SENSOR TECHNOLOGY, INC. 10 THOMAS, IRVINE, CA 92618 USA Phone: (949) 465-0900 Fax: (949) 465-0905</p>
CUSTOMER APPROVAL- NAME / DATE:			
REVISIONS: (Refer to dwg # revision sheet)	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.	DRAWN BY: <i>E. Pano</i>	CREATED DATE: <i>9/20/2013</i>
		APPROVED BY: <i>R. Walker</i>	APPROVED DATE: <i>3/27/2014</i>
		CHECKED BY:	CAGE: 1X8M6 SHEET: 2 OF 3

FUTEK MODEL LSB200 & QIA121

Robust S-Beam Junior Load Cell with Low Noise, High Speed, and High Resolution USB, and Voltage Output

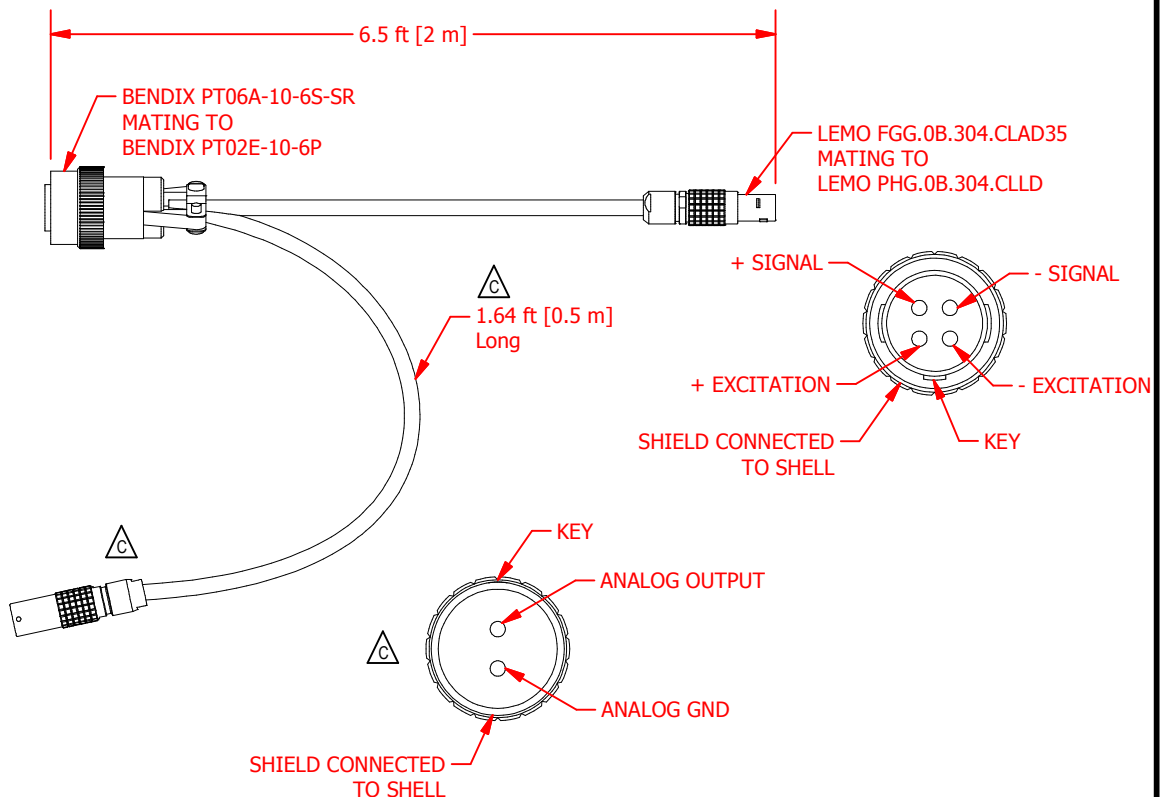
ITEM NUMBER: See Table on Page 1

INCH [mm] | R.O.= Rated Output



BENDIX WIRING CODE	
Pin	Wire
A	+ Excitation
B	- Excitation
C	- Signal*
D	+ Signal*
E	Vout
F	GND/ Shield

* Pins C and D are switched in order to provide positive polarity in Compression



ITEM#: FSH03813

CUSTOMER APPROVAL- COMPANY:	<h2 style="color: green;">OUTLINE DRAWING</h2>	This drawing is submitted solely for the information and exclusive use of the original addressee. It is not to be divulged in whole or in part, by any firm or individual without written permission from:	<p>ADVANCED SENSOR TECHNOLOGY, INC. 10 THOMAS, IRVINE, CA 92618 USA Phone: (949) 465-0900 Fax: (949) 465-0905</p>
CUSTOMER APPROVAL- NAME / DATE:		MODEL: LSB200 & QIA121 DWG No.: FO1355-C	
REVISIONS: (Refer to dwg # revision sheet)	<p>STANDARD NOTES: (Unless Otherwise Specified)</p> <p>ALL DIMENSIONS ARE IN INCHES</p> <p>DRAWING INTERPRETATION DIMS. PER ASME-Y14.5M</p> <p>REMOVE BURRS AND BREAK SHARP EDGES .005 - .015</p> <p>THREADS PER HANDBOOK H-28</p> <p>DIMENSIONS ARE SHOWN AFTER PLATING</p> <p>3rd ANGLE PROJ.</p> <p>ANGLE: ± 1/2°</p> <p>CHAMFER: ± 5°</p> <p>TOLERANCE: .X ± 0.1" .XX ± 0.01" .XXX ± 0.005"</p>	APPROVED BY: <i>R. Walker</i>	APPROVED DATE: <i>3/27/2014</i>
		CHECKED BY:	CAGE: 1X8M6 SHEET: 3 OF 3