

FUTEK MODEL LSB200 & USB220

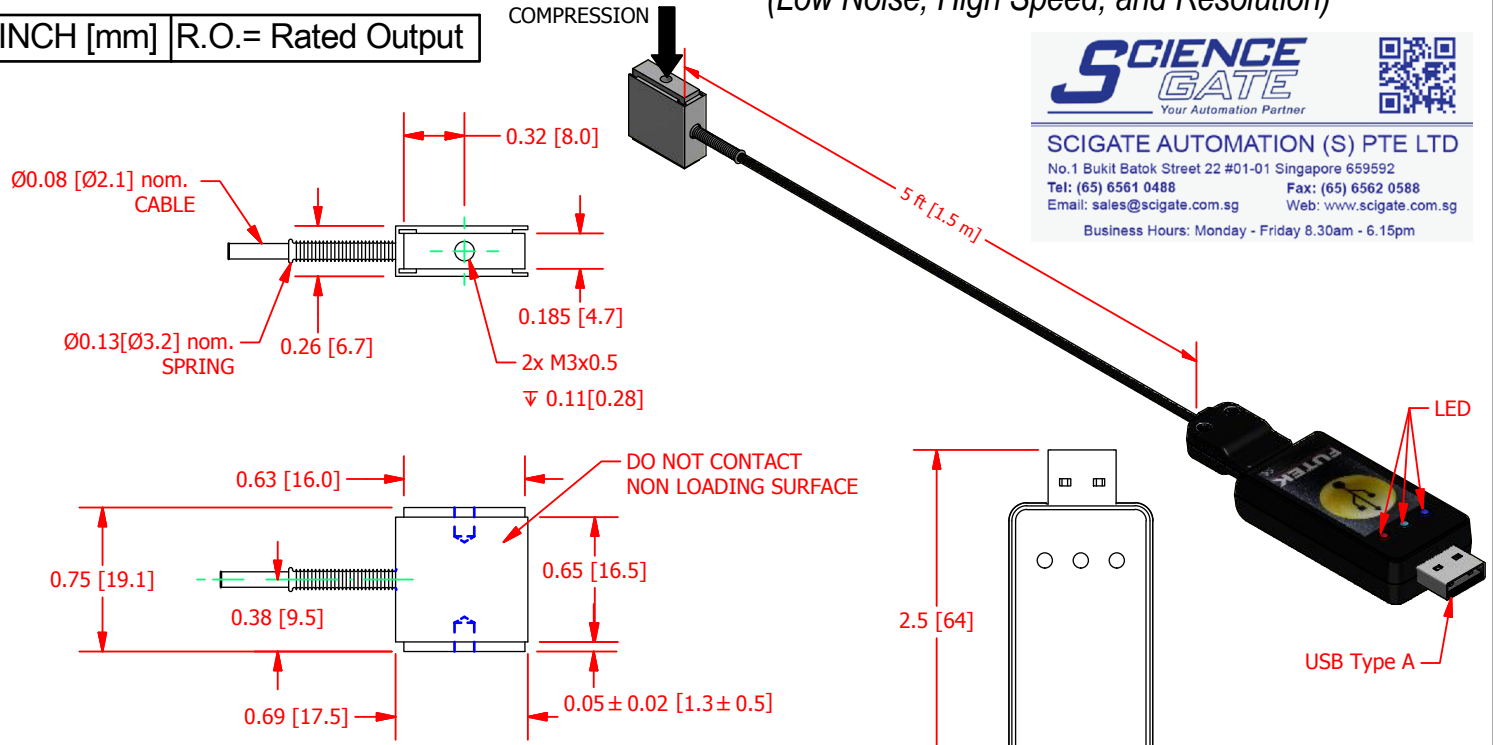
Robust S-Beam Junior Load Cell w/ USB Output
(Low Noise, High Speed, and Resolution)

ITEM NUMBER: See Table

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



SCIGATE AUTOMATION (S) PTE LTD
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ITEM #	Description
QSH01737	LSB200 , 1000 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 , 5 ft Long w/ 12 Pin Male Hirose for USB220
FSH03456	USB220 , External USB Output Kit , 24 Bit Resolution , Up To 19 Bit Noise Free , Standard , For mV/V Inputs , Up to 4800 SPS

SPECIFICATIONS

CAPACITY	1000 g [10 N]	Output Link	USB 2.0
SAFE OVERLOAD	1000% of R.O.	Output	ASCII
EXCITATION (VDC OR VAC)	USB Bus	Sampling Rate	Up to 4800 SPS
RESISTANCE	350 Ω nom	Internal Resolution	24 bits
NONLINEARITY	±0.1% of R.O.	Resolution	See Chart
HYSTERESIS	±0.1% of R.O.	Nonlinearity (USB220)	0.001% of FSR
NONREPEATABILITY	±0.05% of R.O.	Accuracy (USB220)	0.001% of FSR
TEMP. SHIFT ZERO	±0.02% of R.O./°F (±0.036 of R.O./°C)	Integrated Digital Filter	50/60 Hz Filter
TEMP. SHIFT SPAN	±0.02% of LOAD/°F (±0.036 of LOAD/°C)	Weight	10 g
COMPENSATED TEMP.	13 to 114 °F (-11 to 46 °C)		
OPERATING TEMP	13 to 160 °F (0 to 71 °C)		
MATERIAL (SENSOR)	17-4PH S.S.		

CABLE	Calibration (STD)	Sampling Rate (SPS)	Resolution Noise Free bits
#29 Awg, 4 Conductor Spiral Shield	5 pt COMPRESSION	10	19
Silicone Cable, 5 ft Long w/ 12 Pin Male Hirose (LX40-12 P)		100	17
		300	16.5
		1200	15.5
		2400	14.5
		4800	13.5

CUSTOMER APPROVAL- COMPANY:	<h1>OUTLINE DRAWING</h1> <p>STANDARD NOTES: (Unless Otherwise Specified)</p> <p>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</p> <p>3rd ANGLE PROJ.</p> <p>ANGLE: ± 1/2° CHAMFER: ± 5° TOLERANCE: .X ± 0.1" .XX ± 0.01" .XXX ± 0.005"</p>	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: FUTEK ADVANCED SENSOR TECHNOLOGY, INC. 10 THOMAS, IRVINE, CA 92618 USA Phone: (949) 465-0900 Fax: (949) 465-0905
CUSTOMER APPROVAL- NAME / DATE:		MODEL: LSB200 & USB220 DWG No.: FO1364 DRAWN BY: <i>E. Pano</i> CREATED DATE: 3/21/2014 APPROVED BY: <i>J. Varqas</i> APPROVED DATE: 3/28/2014 CHECKED BY: CAGE: 1X8M6 SHEET: 1 OF 1
REVISIONS: (Refer to dwg # revision sheet)		