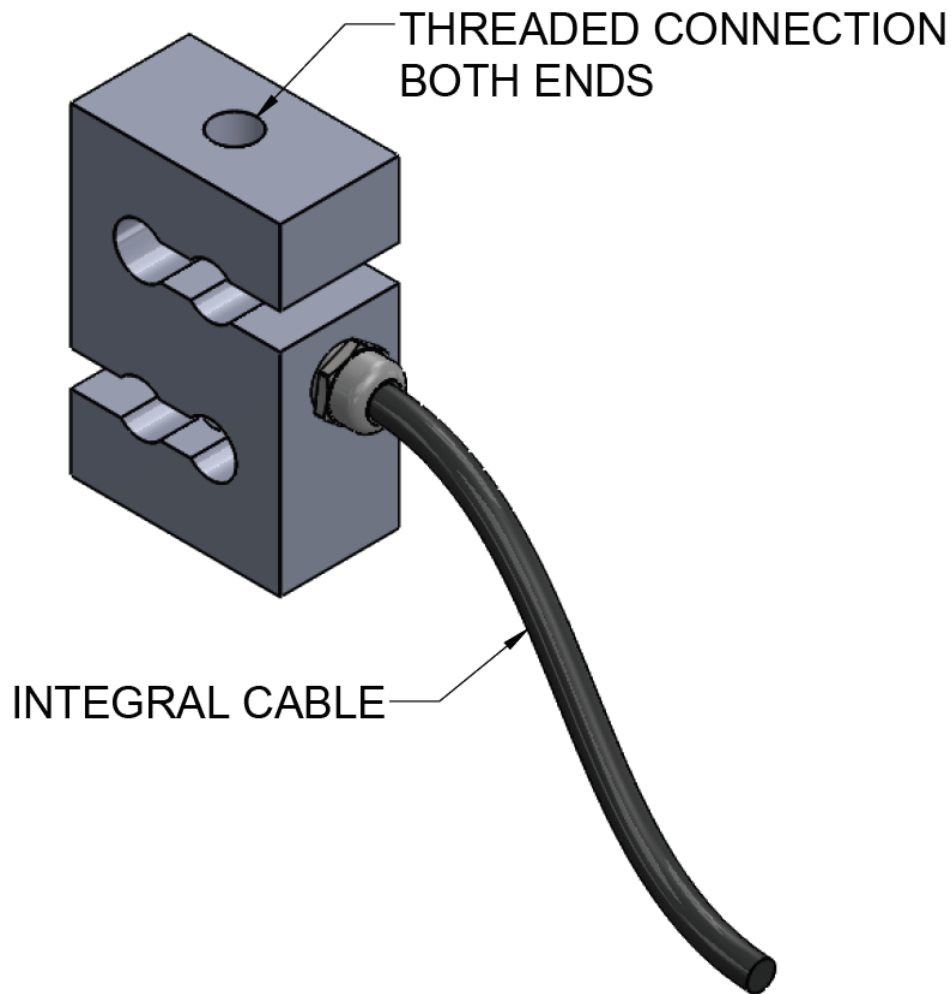




SUBMERSIBLE S BEAM LOAD CELLS

Sensing Systems manufactures submersible S beam style load cells designed to measure compression/tension forces less than 20,000 lbf for shallow depth applications. Standard designs exist for 100 lbf up to 20,000 lbf. For capacities beyond 20,000 lbf, please contact Sensing Systems directly with your request and general requirements. An applications engineer will provide a design specific to your application. Sensing Systems has the capacity to design, manufacture, and test submersible load cells up to 5,000,000 lbf capacity.



APPLICATIONS

- Shallow water in-line anchor or mooring tension forces
- Monitor submersible test attachment forces

**SUBMERSIBLE S BEAM LOAD CELLS**
Standard Product Specifications

Full Scale Capacity (FS)	100 to 20,000 lbf
Material ¹	17-4 PH Stainless Steel
Nominal Output Signal at Capacity (FS)	2.0 mV/V
Optional Amplified Output ²	0 to 5 VDC, 0 to 10 VDC, 4 to 20 mA
Combined Error	≤ 0.35% of FS
Zero Balance Signal	≤ 1.00% of FS
Input & Output Resistance ³	350 Ω Nominal
Excitation Voltage	2 to 24 V
Insulation to Ground	> 5 GΩ
Safe Overload	150% of FS
Ultimate Overload	300% of FS
Operating Depth	Customer Specified - Shallow Water Applications
Sensor Material	17-4 Stainless Steel
Electrical Connection ⁴	Integral 4 Conductor, 15' Long
Calibration	NIST Traceable per ASTM E4, Certificate Provided

¹ Titanium, Aluminum, and others available

² Requires additional internal or external signal conditioning amplifier

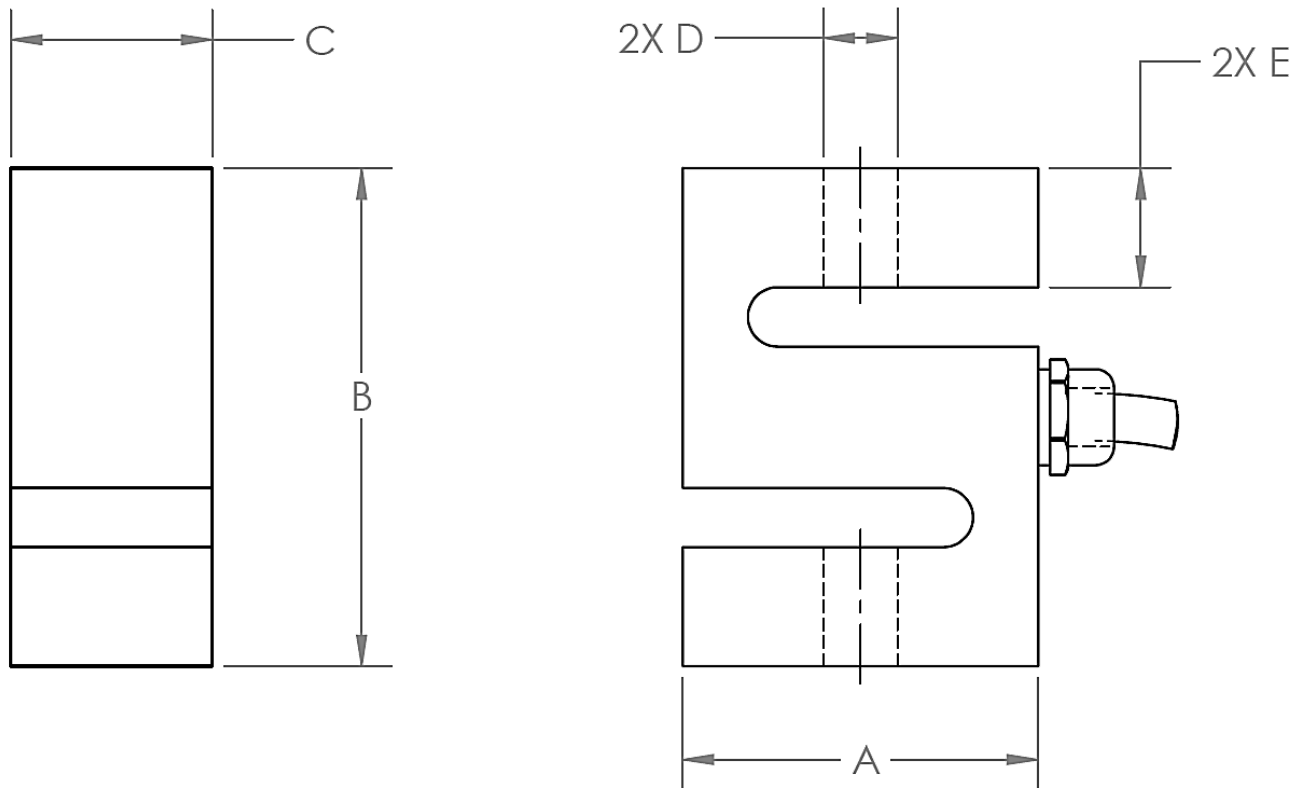
³ Options ranging from 120 Ω to 10,000 Ω available

⁴ Optional custom connector or integral cable types & lengths available

Sensing Systems manufactures all submersible load cells to order and can customize almost all aspects of the product to meet the exact requirements of a specific application. If you are interested in discussing your application with an applications engineer, please contact us directly at info@sensing-systems.com or (508) 992-0872.



SUBMERSIBLE S BEAM LOAD CELLS
Standard Product Outline Geometry - 100 to 20,000 lbf



Dimensions (inch)	Full Scale Capacity (lbf)					
	100 to 300	500	1,000	5,000	10,000	20,000
A - Overall Width	1.50	1.50	1.75	3.00	3.25	4.25
B - Overall Height	2.30	2.30	2.50	3.95	5.00	6.90
C - Overall Depth	0.85	0.85	1.00	1.00	1.25	1.50
D - Axial Thread	¼" - 28	½" - 20	½" - 20	¾" - 16	¾" - 16	1-¼" - 12
E - Thread Engagement	0.50	0.50	0.50	0.75	1.00	1.25