

S-Type Load Cell



FEATURES

- Capacities: 25 to 5000kg, 250 to 40Klb
- Alloy steel construction
- Stainless steel available
- Bi-direction(tension/compression)
- Rationalized output
- NTEP Class III 5000S, III L10000 approval from 250lb to 20Klb

OPTIONAL FEATURE

- FM approval available

DESCRIPTION

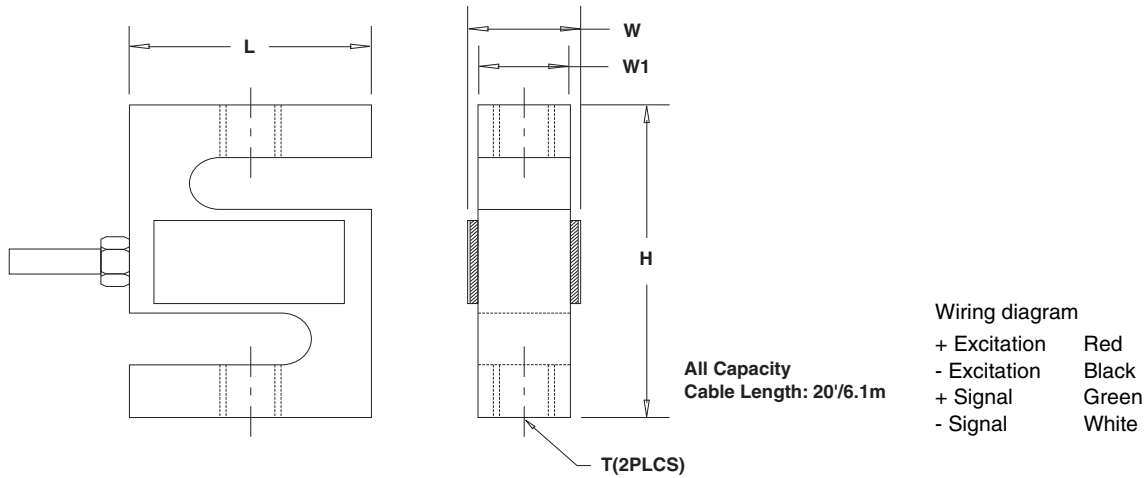
S Type load cell as the name indicated can be easily identified by S-shaped body. They can be loaded either in tension or compression, and used for single or multiple-cell application if the output is rationalized.

STC is made of alloy or stainless steel, sealed to IP67 providing excellent protection against moisture and humidity.

APPLICATIONS

- Electro-mechanical conversion scales
- Silo/hopper/tank weighing
- Crane scales
- Fork-lift scales
- Dosing/filling
- Universal material tester
- Tensile/pulling force measurement

OUTLINE DIMENSIONS



CAPACITY		L	W	W1	H	T
25/50/75kg	mm	50.8	26.7	12.7	63.5	M6 x 1.0
	(inch)	2.00	1.05	0.50	2.50	
100/150kg	mm	50.8	22.92	19.1	76.2	M10 x 1.5
	(inch)	2.00	0.9	0.75	3.00	
250/300lb	mm	50.8	26.7	12.7	76.2	3/8-24UNF
	(inch)	2.00	1.05	0.50	3.00	
250kg 500/750lb	mm	50.8	30.4	19.1	76.2	M12 x 1.75
	(inch)	2.00	1.2	0.75	3.00	1/2-20UNF
500/750kg	mm	50.8	25.4	19.1	76.2	M12 x 1.75
	(inch)	2.00	1.00	0.75	3.00	
1K/1.5Klb	mm	50.8	26.1	19.1	76.2	1/2-20UNF
	(inch)	2.00	1.03	0.75	3.00	
1000/1500kg 2K/2.5K/3Klb	mm	50.8	31.8	25.4	76.2	M12 x 1.75
	(inch)	2.00	1.25	1.00	3.00	1/2-20UNF
5K/7.5Klb	mm	76.2	31.8	25.4	107.9	3/4-16UNF
	(inch)	3.00	1.25	1.00	4.25	
2000/2500/5000kg	mm	76.2	38.1	31.8	100.4	M20 x 1.5
	(inch)	3.00	1.50	1.25	3.95	
10Klb	mm	88.9	31.8	25.4	120.7	3/4-16UNF
	(inch)	3.50	1.25	1.00	4.75	
15Klb	mm	101.6	38.1	31.8	139.7	1-14UNS
	(inch)	4	1.50	1.25	5.50	
20Klb	mm	127	55.7	50.8	177.8	1 1/4-12UNF
	(inch)	5	2.19	2	7.00	
40Klb	mm	152.4	69.9	63.5	254.0	1 1/2-12UNF
	(inch)	6.00	2.75	2.50	10.00	

SPECIFICATIONS

PARAMETER	VALUE		UNIT
	NTEP III & IIIL	Non-Approved	
NTEP/OIML Accuracy class	III 5000 single* IIIL 10000 single*	2000	
Maximum no. of intervals (n)	10000	5000	Maximum available
Standard capacities (E _{max})	25, 50, 75, 100, 250, 500, 750, 1000, 1500, 2000, 2500, 5000		kg
Standard capacities (E _{max})	250, 300, 500, 750, 1K, 1.5K, 2K, 2.5K, 3K, 5K, 7.5K, 10K, 15K, 20K, 40K		lbs
Rated output-R.O.	3.0		mV/V
Rated output tolerance	0.25		±% of rated output
Zero balance	1		±% of rated output
Non linearity	0.020	0.020 (SS: 0.05)	±% of rated output
Hysteresis	0.020	0.020 (SS: 0.05)	±% of rated output
Non-repeatability	0.020		±% of rated output
Creep error (20 minutes)	0.030		±% of rated output
Zero return (20 minutes)	0.030		±% of rated output
Temperature effect on min. dead load output	0.0015	0.0026	±% of rated output/°C
Temperature effect on sensitivity	0.0010	0.0015	±% of applied load/°C
Compensated temperature range	-10 to +40		°C
Operating temperature range	-20 to +60		°C
Safe overload	150		% of R.C.
Ultimate overload	300		% of R.C.
Excitation, recommended	10		Vdc or Vac rms
Excitation, maximum	15		Vdc or Vac rms
Input impedance	385±5		Ohms
Output impedance	350±3		Ohms
Insulation resistance	>5000		Mega-Ohms
Construction	Nickel plated alloy steel**		
Environmental protection	IP67		

* Capacities 250-20Klbs

** Stainless steel available

All specifications listed subject to change without notice.

FM Approval

Intrinsically Safe: Class I, II, III; Div. 1 Groups A-G

Non-Incendive: Class I; Div. 2 Groups A-D

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay Precision Group"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify Vishay Precision Group's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

Vishay Precision Group makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, Vishay Precision Group disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on Vishay Precision Group's knowledge of typical requirements that are often placed on Vishay Precision Group products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of Vishay Precision Group.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay Precision Group products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay Precision Group for any damages arising or resulting from such use or sale. Please contact authorized Vishay Precision Group personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.
