

## 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

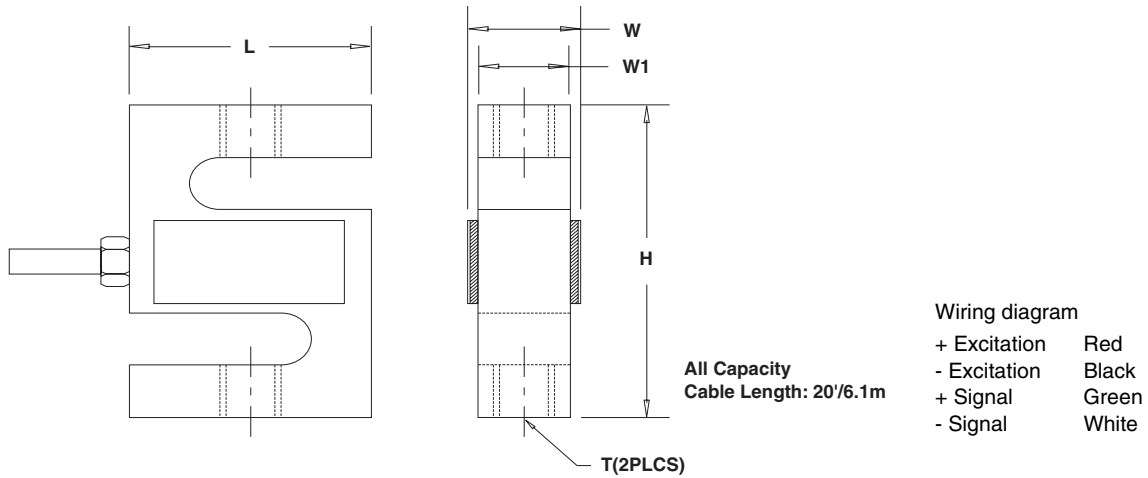
S Type load cell as the name indicated can be easily identified by S-shaped body. They can be loaded either in tension or compression, and used for single or multiple-cell application if the output is rationalized.

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	19.1	12.7	63.5	M6 x 1.0
	(inch)	2.00	0.75	0.50	2.50	1/4-28UNF
100kg	mm	50.8	25.4	19.1	76.2	M10 x 1.5
	(inch)	2.00	1.00	0.75	3.00	
250/ 300lb	mm	50.8	19.1	12.7	76.2	3/8-24UNF
	(inch)	2.00	0.75	0.50	3.00	
250/ 500/ 750kg 500/ 750/ 1K/ 1.5Klb	mm	50.8	25.4	19.1	76.2	M12 x 1.75
	(inch)	2.00	1.00	0.75	3.00	1/2-20UNF
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	100.3	38.1	31.8	139.7	1-14UNS
	(inch)	3.95	1.50	1.25	5.50	
20Klb	mm	125.5	55.7	49.3	177.8	11/4-12UNF
	(inch)	4.94	2.19	1.94	7.00	
40Klb	mm	152.4	69.9	63.5	254.0	11/2-12UNF
	(inch)	6.00	2.75	2.50	10.00	



## SPECIFICATIONS

PARAMETER	VALUE		UNIT
	NTEP III & IIL	Non-Approved	
NTEP/OIML Accuracy class	III 5000 single*	2000	
Maximum no. of intervals (n)	IIL 10000 single*	2000	
$Y = E_{max}/V_{min}$	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

## VISHAY TRANSDUCERS (VT) SALES OFFICES

**VT Americas**  
 City of Industry, CA  
 PH: +1-626-858-8899  
 FAX: +1-626-332-3418  
 vt.us@vishaymg.com

**VT Netherlands**  
 Breda  
 PH: +31-76-548-0700  
 FAX: +31-76-541-2854  
 vt.nl@vishaymg.com

**VMG UK**  
 Basingstoke  
 PH: +44-125-646-2131  
 FAX: +44-125-647-1441  
 vt.uk@vishaymg.com

**VMG Israel**  
 Netanya  
 PH: +972-9-863-8888  
 FAX: +972-9-863-8800  
 vt.il@vishaymg.com

**VMG Germany**  
 Heilbronn  
 PH: +49-7131-3901-260  
 FAX: +49-7131-3901-2666  
 vt.de@vishaymg.com

**VMG France**  
 Chartres  
 PH: +33-2-37-33-31-20  
 FAX: +33-2-37-33-31-29  
 vt.fr@vishaymg.com

**VT Taiwan\***  
 Taipei  
 PH: +886-2-2696-0168  
 FAX: +886-2-2696-4965  
 vt.roc@vishaymg.com  
 \*Asia except China



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