

S-Type Load Cell

FEATURES

- Capacities:
 - Aluminum construction—5, 10, 20 kg; Alloy Steel construction—25 to 5000 kg, 250 to 40k lbs
- Bi-directional (tension/compression)
- Rationalized output
- NTEP Class III 5000S, IIIL10000 approval from 250 lbs to 20k lbs
- Optional
 - o Stainless steel available
 - o FM approval available
 - EDOC option available; product appearance will differ from the photograph due to coating

APPLICATIONS

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



The Model STC is made of Aluminum, Alloy Steel or Stainless Steel, sealed to IP67 providing excellent protection against moisture and humidity.

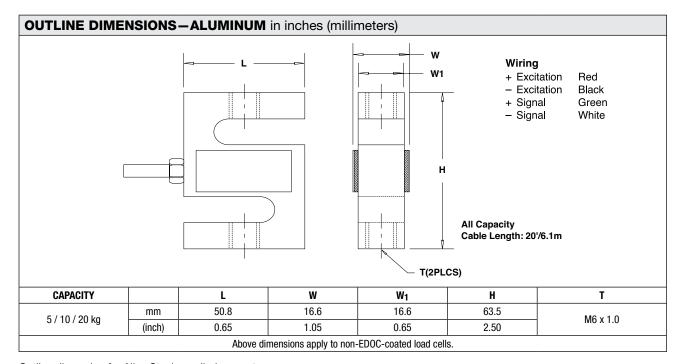




The S-type load cell, as the name indicates, can be easily identified by its S-shaped body. They can be loaded either in tension or compression, and used for single or multiple-cell application if the output is rationalized.

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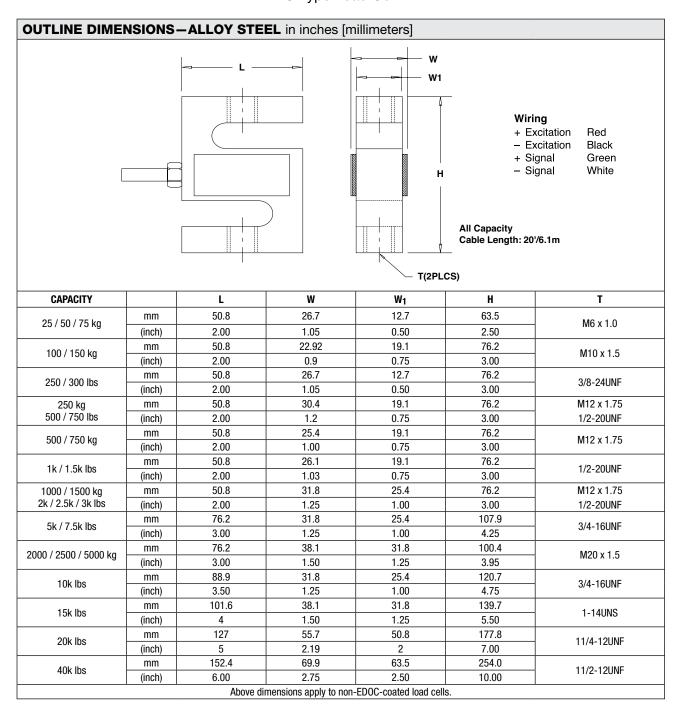
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Outline dimension for Alloy Steel supplied on next page



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SPECIFICATIONS			
PARAMETER	VALUE		UNIT
NTEP/OIML accuracy class	NTEP III & IIIL	Non-Approved	
Maximum no. of intervals (n)	III 5000 single* IIIL10000 single*	2000	
Y = E _{max} /V _{min}	10000	5000	Maximum available
Standard capacities (E _{max}) (Aluminum)	5, 10, 20		kg
Standard capacities (E _{max}) (Steel)	25, 50, 75, 100, 250, 500, 750, 1000, 1500, 2000, 2500, 5000		kg
	250, 300, 500, 750, 1k, 1.5k, 2k, 2.5k, 3k, 5k, 7.5k, 10k, 15k, 20k, 40k		lbs
Rated output – R.O. (Aluminum)	2.0		mV/V
Rated output—R.O. (Steel)	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	200 (Aluminum) / 300 (Steel)		% of R.C.
Excitation, recommended	10		VDC or VAC RMS
Excitation, maximum	15		VDC or VAC RMS
Input impedance	410±5 (Aluminum) / 385±5 (Steel)		Ω
Output impedance	350±3		Ω
Insulation resistance	>5000		ΜΩ
Construction	Aluminium or Nickel-plated alloy steel **		
Environmental protection	IP67		

^{*} Capacities 250-20k lbs

All specifications 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

^{**} Stainless steel available



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