

# S-Type Load Cell

#### FEATURES

- Capacities: Aluminum construction – 5, 10, 20 kg; Alloy Steel construction – 25 to 5000 kg, 250 to 40k lbs
- Bi-direction (tension/compression)
- Rationalized output
- NTEP Class III 5000S, IIIL10000 approval from 250 lbs to 20k lbs
- Optional
  - Stainless steel available
  - FM approval available
  - EDOC option available

#### APPLICATIONS

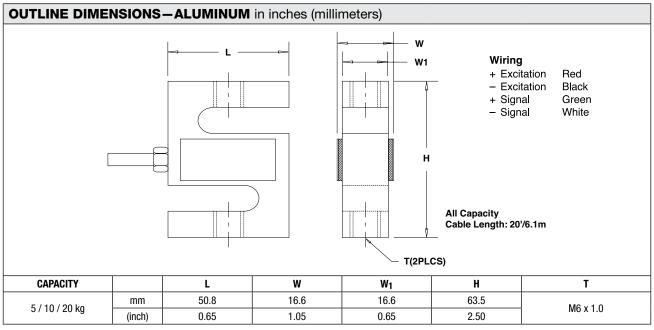
- Electro-mechanical conversion scales
- Silo/hopper/tank weighing
- Crane scales
- · Fork-lift scales
- Dosing/filling
- Universal material tester
- Tensile/pulling force measurement

#### DESCRIPTION

The S-type load cell, as the name indicates, 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.



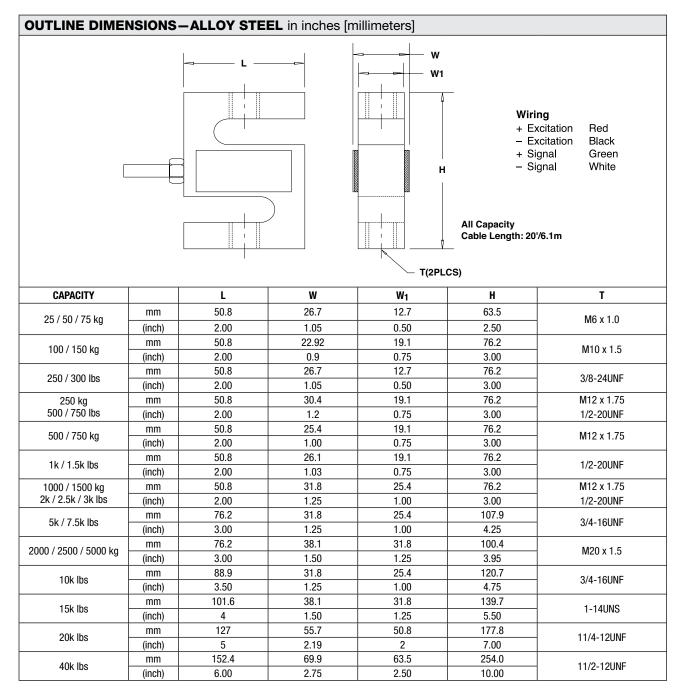
STC is made of Aluminum, Alloy Steel or Stainless Steel, sealed to IP67 providing excellent protection against moisture and humidity.



Outline dimension for Alloy Steel supplied on next page

Celtron

## S-Type Load Cell



**T**ransducers

Celtron • Revere • Sensortronics • Tedea-Huntleigh



### S-Type Load Cell

PARAMETERVALUEUNITNTEP/OIML accuracy classNTEP III & IIILNon-ApprovedMaximum no. of intervals (n)III 5000 single* IIIL 10000 single*2000Y = Emax/Vmin100005000Maximum availaStandard capacities (Emax) (Aluminum)5, 10, 20kgStandard capacities (Emax) (Steel)25, 50, 75, 100, 250, 500, 750, 1000, 1500, 2000, 2500, 5000kgStandard capacities (Emax) (Steel)250, 300, 500, 750, 1k, 1.5k, 2k, 2.5k, 3k, 5k, 7.5k, 10bsIbsRated output-R.O. (Aluminum)2.0mV/VRated output-R.O. (Steel)3.0mV/VRated output tolerance0.25±% of rated outZero balance1±% of rated outNon-linearity0.0200.020 (SS: 0.05)±% of rated outNon-repeatability0.0200.020 (SS: 0.05)±% of rated outNon-repeatability0.030±% of rated outZero return (20 minutes)0.030±% of rated out	
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Temperature effect on min dead	put
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load output 0.0015 0.0026 ±% of rated outp	ut∕°C
Temperature effect on sensitivity      0.0010      0.0015      ±% of applied load	d/°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 R	/IS
Excitation, maximum 15 VDC or VAC R	/IS
Input impedance      410±5 (Aluminum) / 385±5 (Steel)      Ω	
Output impedance 350±3 Ω	
Insulation resistance >5000 MΩ	
Construction Aluminium or Nickel-plated alloy steel **	
Environmental protection IP67	

\* Capacities 250–20k lbs

\*\* Stainless steel available

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



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