

S型称重传感器



- 特点
- 量程
铝制结构—5, 10, 20 kg;
合金钢材质结构— 25 to 5000 kg, 250 to 40k lbs
 - 双向（拉力 / 压力）
 - 输出合理
 - NTEP Class III 5000S, IIIL10000 认证，量程从 250 lbs到 20k lbs
- 可选特性
- 可提供不锈钢材质
 - 可 提 供 FM认证

描述

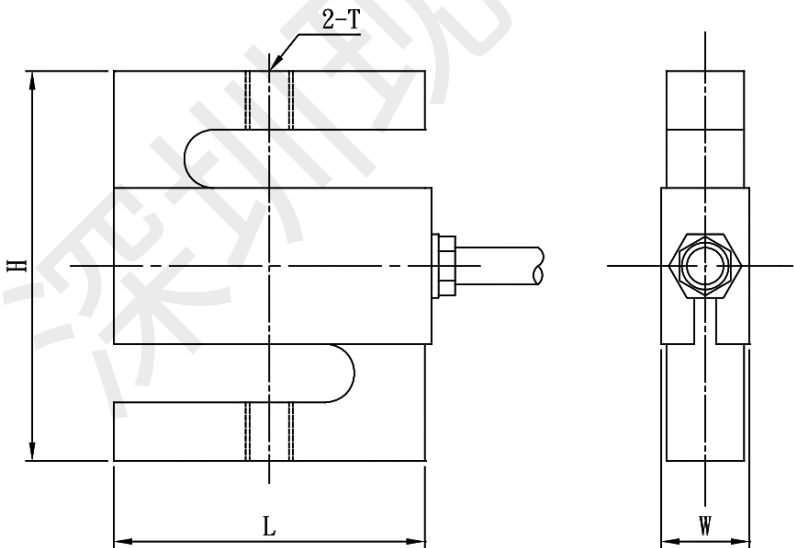
S型称重传感器，顾名思义，其S形的主
体使其很容易被识别出来。它们既可以承
受拉力，也可以承受压力。并且，如果输
出经过合理化处理，它们可用于单传感器
或多传感器的应用场景中。

STC由铝、合金钢或不锈钢制成，防护等
级达到 IP67，能提供出色的防潮和防湿保
护。

应用

- 机电转换秤
- 料仓/料斗/储罐称重
- 吊秤
- 叉车秤
- 配料 / 灌装
- 万能材料试验机
- 拉伸 / 拉力测量

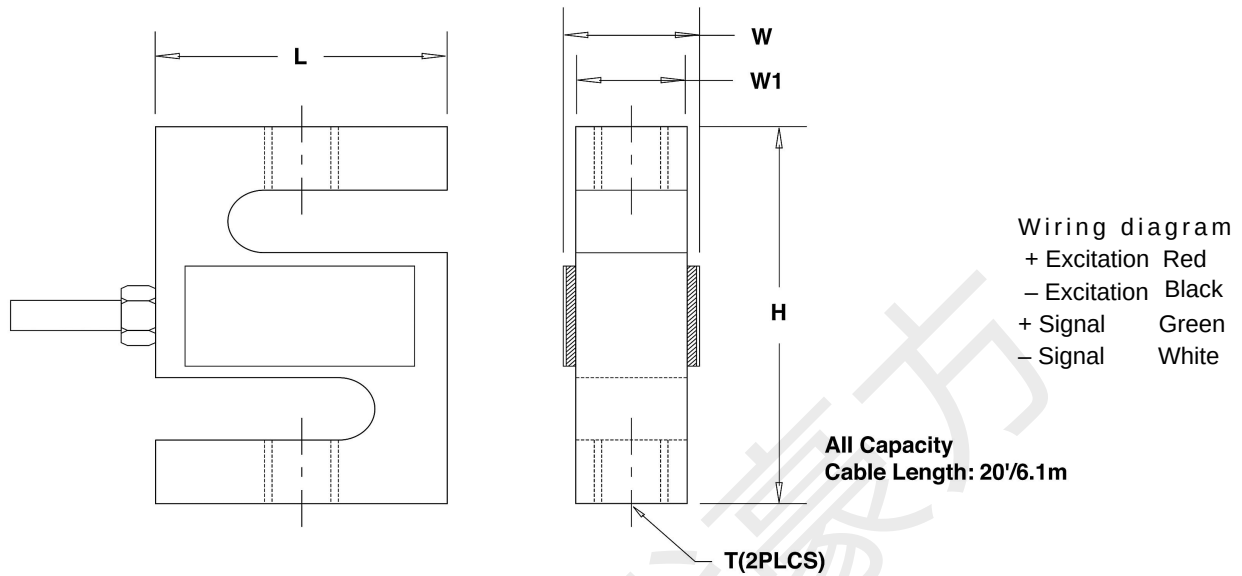
外型尺寸 in mm



CAPACITY		L	W	W ₁	H	T
5 / 10 / 20 kg	mm	50.8	16.6	16.6	63.5	M6 x 1.0
	(inch)	0.65	1.05	0.65	2.50	

All dimensions in mm

外形尺寸 in mm



CAPACITY		L	W	W ₁	H	T
25 / 50 / 75 kg	mm	50.8	26.7	12.7	63.5	M6 x 1.0
	(inch)	2.00	1.05	0.50	2.50	
100 / 150 kg	mm	50.8	22.92	19.1	76.2	M10 x 1.5
	(inch)	2.00	0.9	0.75	3.00	
250 / 300 lbs	mm	50.8	26.7	12.7	76.2	3/8-24UNF
	(inch)	2.00	1.05	0.50	3.00	
250 kg 500 / 750 lbs	mm	50.8	30.4	19.1	76.2	M12 x 1.75 1/2-20UNF
	(inch)	2.00	1.2	0.75	3.00	
500 / 750 kg	mm	50.8	25.4	19.1	76.2	M12 x 1.75
	(inch)	2.00	1.00	0.75	3.00	
1k / 1.5k lbs	mm	50.8	26.1	19.1	76.2	1/2-20UNF
	(inch)	2.00	1.03	0.75	3.00	
1000 / 1500 kg 2k / 2.5k / 3k lbs	mm	50.8	31.8	25.4	76.2	M12 x 1.75 1/2-20UNF
	(inch)	2.00	1.25	1.00	3.00	
5k / 7.5k lbs	mm	76.2	31.8	25.4	107.9	3/4-16UNF
	(inch)	3.00	1.25	1.00	4.25	
2000 / 2500 / 5000 kg	mm	76.2	38.1	31.8	100.4	M20 x 1.5
	(inch)	3.00	1.50	1.25	3.95	
10k lbs	mm	88.9	31.8	25.4	120.7	3/4-16UNF
	(inch)	3.50	1.25	1.00	4.75	
15k lbs	mm	101.6	38.1	31.8	139.7	1-14UNS
	(inch)	4	1.50	1.25	5.50	
20k lbs	mm	127	55.7	50.8	177.8	11/4-12UNF
	(inch)	5	2.19	2	7.00	
40k lbs	mm	152.4	69.9	63.5	254.0	11/2-12UNF
	(inch)	6.00	2.75	2.50	10.00	



5, 7, 10, 15, 20, 30, 50, 60, 75, 100, 150, 250, 300, 500, 635, 800, 1000

kg

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 = Emax/Vmin	10000	5000	Maximum available
Standard capacities (Emax) (Aluminum)	1, 2, 5, 10, 20		kg
Standard capacities (Emax) (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 /3.0		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
Temperature effect on min. dead load output	0.0015	0.0026	±% of rated output/°C
Temperature effect on sensitivity	0.0010	0.0015	±% of rated output/°C
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
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)		Ohms
Output impedance	350±3		Ohms
Insulation resistance	>5000		Mega-Ohms
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

Note: STC 5-20kg output is 2.0mv/v (Material is aluminum alloy)