

S LOAD CELL

本 S 型荷重元為系統常用的荷重元，由於固定點與施力點在同一軸線上，安裝容易且體積小，成本較低；本型荷重元本體採用高強度合金鋼（1kN 以下為鋁合金），並以完全密封方式保護感應元件，因此非常精確耐用，特別適合於吊秤、精確重量、力量量測及自動控制上。

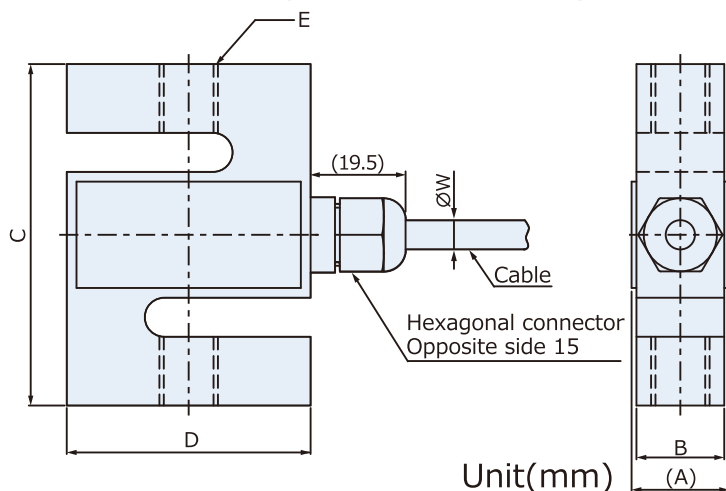
S-type load cell is the most common one, and its fixed and force point are on the same axis. Consisted of high strength alloy steel and completely sealed. It is durable, small and low-cost. Ideal for use in truck scales, exact weight measurement and automatic weight control units.



■ 特點 Features

- 高精準度 High accuracy
- 溫度補償 Thermally compensated
- 密封保護 Moisture or Hermetically sealed
- 低 價格 Low cost
- S - 10, 20, 50, 100, 200, 350, 500 N
1, 2, 3.5, 5, 7.5, 10, 15, 20, 30, 50, 75, 100 kN

■ Installation Dimensions



TYPE	A	B	C	D	W	E
S-10 N (1.020 kgf)	17	15	70	50	4	M8 × 1.25
S-20 N (2.039 kgf)						
S-50 N (5.099 kgf)						
S-100 N (10.20 kgf)						
S-200 N (20.39 kgf)						
S-350 N (35.69 kgf)						
S-500 N (50.99 kgf)						
S-1 kN (102.0 kgf)	17	15	70	50	6	M12 × 1.75
S-2 kN (203.9 kgf)	20	18	70	50	6	M12 × 1.75
S-3.5 kN (356.9 kgf)						
S-5 kN (509.9 kgf)						
S-7.5 kN (764.8 kgf)	23	21	75	50	6	M12 × 1.75
S-10 kN (1.020 tf)						
S-15 kN (1.530 tf)						
S-20 kN (2.039 tf)	26	24	84	64	6	M16 × 2.0
S-30 kN (3.060 tf)						
S-50 kN (5.099 tf)	33	31	100	64	6	M20 × 2.5
S-75 kN (7.648 tf)	46	44	130	90	6	M30 × 3.5
S-100 kN (10.20 tf)						

■ Specification

額定輸出 Rated Output	2.0mV/V(S-10~50 N:1.0mV/V)
總和誤差 Total Error	±0.05%R.O.
重現性 Repeatability	±0.03%R.O.
潛變 Creep	0.05%/20min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度補償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%Load/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Over Load Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Exci : Black(-)Exci Output:Green(+)Sign White(-)Sign