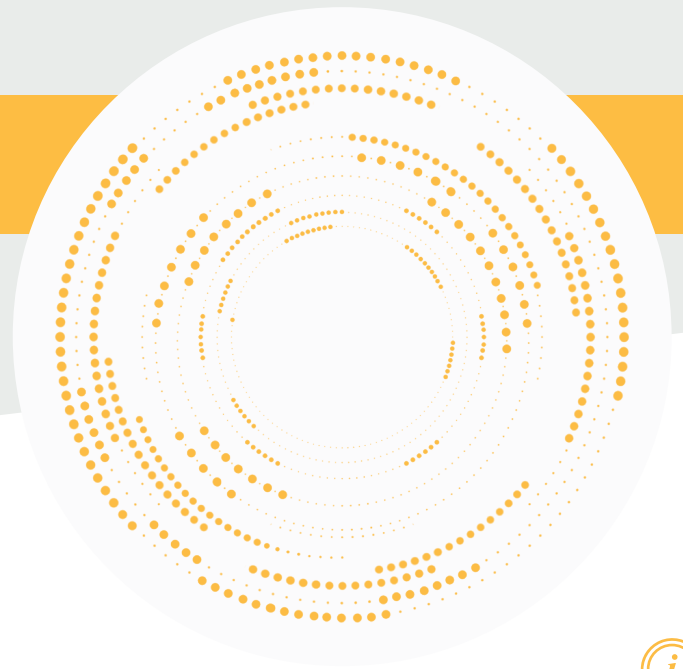


STW

Tension Type Load Cell



Product Description



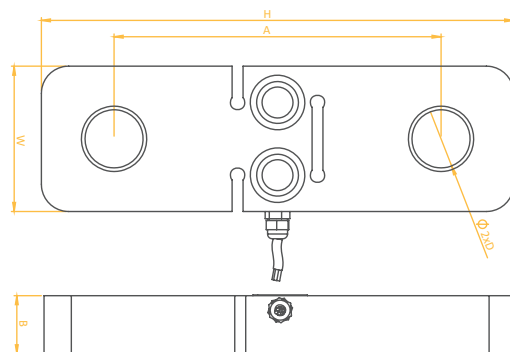
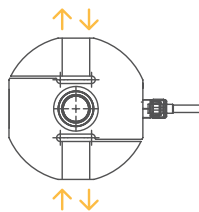
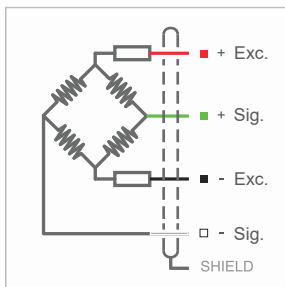
The STW Tension Type Load Cell is designed to meet your high-precision measurement needs with capacity options ranging from 5 ton to 50 tons. Its durable nickel-plated alloy or stainless steel body adapts to harsh industrial conditions, while its hermetic sealing feature ensures long-lasting and reliable use. The STW operates on the tension and compression principle.

Technical Specifications



| | | | |
|--------------------------------------|--------------------|-----------------------------------|-------------------------|
| Capacity | 5, 10, 20, 50 Ton | Insulation Resistance | ≤ 5000 MΩ (100 VDC) |
| Accuracy Class | C3 | Compensated Operating Temperature | -10 ~ +40 °C |
| Min. Load | 0 kg | Operating Temperature | -30 ~ +70 °C |
| Max. Division Count (nLC) | 3000 | Recommended Excitation Voltage | 10 VDC |
| Min. Measuring Range (Y=Emax / Vmin) | 10000 | Max. Excitation Voltage (Umax) | 15 VDC |
| Total Error | ±0.022 %FS | Overload Capacity | 150 % FS |
| Output Gain (FS) | 2.00 ± 0.005mV / V | Breaking Load | 300 % FS |
| Zero Balance | ± 1 %FS | Protection Class | IP 68 |
| Input Resistance | 750 Ω ± 20 Ω | Material | Steel / Stainless Steel |
| Output Resistance | 702 Ω ± 3 Ω | Cable | 4x022mm ² |

Technical Dimensions and Drawings



Application Areas

Strain, Tension, and Force Tests
Mining, Transportation & Logistics
Shipyards, Construction, and Port Logistics

| Capacity | H | W | D | A | B | Cable |
|----------|-----|-----|----|-----|----|-------|
| 5 Ton | 260 | 80 | 32 | 180 | 32 | 6 m |
| 10 Ton | 280 | 90 | 40 | 190 | 36 | 8 m |
| 20 Ton | 300 | 100 | 48 | 200 | 40 | 12 m |
| 30 Ton | 320 | 115 | 60 | 200 | 55 | 12 m |
| 50 Ton | 480 | 150 | 82 | | 50 | 15 m |



LPTSENS
Load Cell and Industrial Weighing Systems