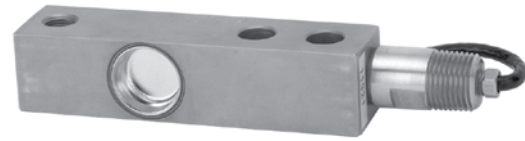


Hermetically Sealed Stainless Steel Shear Beam Load Cell

FEATURES

- Rated capacities of 1000 to 10,000 pounds
500 kg to 5 metric tonnes
- Stainless steel, welded seal construction
- Interchangeable with Sensortronics model 65023 shear beam
- Trade certified for NTEP Class III: 5000 Divisions and Class IIIL: 10000 Divisions; OIML R60: 3000 Divisions
- Hermetically *Sensorgage*™ sealed to IP68 standards
- *Cell Guard*™ two year warranty
- Factory Mutual System Approved for Classes I, II, III; Divisions 1 and 2; Groups A through G. Also, non-incendive ratings (No barriers!)
- **Optional**
 - Companion weigh module is Model 65080 Stainless Steel *TantaMount*



65080-TWA



APPLICATIONS

- Hostile environments: Food and beverage processing
Chemical and plastics processing
Pharmaceutical and biomedical processing
- Washdown and Clean-In-Place environments
- High performance weighing modules and assemblies

Its low profile and all welded sealing combined with high accuracy makes this load cell ideally suited for low profile platforms, pallet truck weighers, tanks and silos. The guide slots incorporated into the upper and lower mounting faces enable manufacturers to easily position the load cell.

DESCRIPTION

Model 65083H provides the weighing industry with the ultimate protection necessary for today's hostile environments in an economical low profile range suitable for platform scale manufacture.

Hermetically sealed against moisture, the construction of the model 65083H in combination with a polyurethane dual shielded cable, enables continuous operation in harsh environments while maintaining a high operating specification.

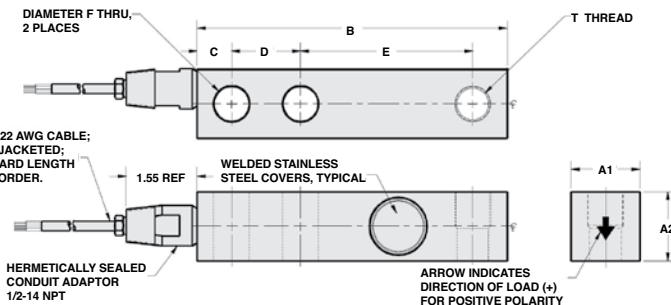
The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

OUTLINE DIMENSIONS in inches [millimeters]

Wiring

- + Excitation = Red
- Excitation = Black
- + Output = Green
- Output = White

4 CONDUCTOR; 22 AWG CABLE; SHIELDED AND JACKETED; 20 FOOT STANDARD LENGTH OR PER SALES ORDER.



| CAPACITY | A1 | A2 | B | C | D | E | F | G-THREAD | DEFLECTION | WEIGHT |
|--------------|--------|--------|---------|--------|--------|--------|--------|--|------------|--------|
| 1k-4k | 1.22 | 1.25 | 5.12 | 0.62 | 1.00 | 3.00 | 0.53 | 1/2-20 UNF-2B, Ø 0.53 × 0.61 DP C'BORE | 0.012 | 2.4 |
| 5k-SE* | 1.22 | 1.50 | 5.12 | 0.62 | 1.00 | 3.00 | 0.53 | 1/2-20 UNF-2B, Ø 0.53 × 0.61 DP C'BORE | 0.012 | 2.4 |
| 5k-10k | 1.50 | 2.00 | 6.75 | 0.75 | 1.50 | 3.75 | 0.78 | 3/4-16 UNF-2B, Ø 0.78 × 0.75 DP C'BORE | 0.030 | 3.9 |
| [500 kg-2 t] | [31.0] | [31.0] | [130.0] | [16.0] | [25.0] | [76.0] | [13.0] | M12 × 1.75-6H | [0.305] | [1.1] |
| [500 kg-2 t] | [31.0] | [32.0] | [130.0] | [16.0] | [25.0] | [76.0] | [13.0] | M12 × 1.75-6H | [0.305] | [1.1] |
| [3 t-5 t] | [38.0] | [38.0] | [171.0] | [19.0] | [38.0] | [95.0] | [20.0] | M20 × 2.5-6H | [0.762] | [1.8] |

Capacities are in pounds. Deflection is ±10%. Certified drawings are available.
* SE denotes "Small Envelope". A 5k capacity is available in the 1K/4k dimensional envelope.

Hermetically Sealed Stainless Steel Shear Beam Load Cell

| SPECIFICATIONS | | | | | |
|-----------------------------------|--|----------------|----------|----------|-------------------|
| PARAMETER | VALUE | | | | UNIT |
| Rated capacity—R.C. (E_{max}) | 1k, 1.5k, 2.5k, 4k, 5k, 10k 500 kg, 750 kg, 1 t, 2 t, 5 t | | | | lbs kg/t |
| NTEP/OIML accuracy class | NTEP III | NTEP IIIIL | Standard | OIML R60 | |
| Maximum no. of intervals (n) | 5000 multiple | 10000 multiple | | 3000 | |
| $Y = E_{max}/V_{min}$ | NTEP Cert. No. 98-175 | | | 8333 | Maximum available |
| Rated output—R.O. | 2.0 | 2.0 | 3.0 | 2.0 | mV/V |
| Rated output tolerance | 0.25 | | | | ±% mV/V |
| Zero balance | 1.0 | | | | ±% FSO |
| Combined error | 0.02 | 0.02 | 0.03 | 0.02 | ±% FSO |
| Non-repeatability | 0.01 | | | | ±% FSO |
| Creep error (30 minutes) | 0.03 | 0.03 | 0.03 | 0.017 | ±% FSO |
| Temperature effect on zero | 0.0010 | 0.0010 | 0.0015 | 0.0010 | ±% FSO/°F |
| Temperature effect on output | 0.0008 | 0.0008 | 0.0008 | 0.0007 | ±% of load/°F |
| Compensated temperature range | 14 to 104 (–10 to 40) | | | | °F (°C) |
| Operating temperature range | 0 to 150 (–18 to 65) | | | | °F (°C) |
| Storage temperature range | –60 to 185 (–50 to 85) | | | | °F (°C) |
| Sideload rejection ratio | 500:1 | | | | |
| Safe sideload | 100 | | | | % of R.C. |
| Maximum safe central overload | 150 | | | | % of R.C. |
| Ultimate central overload | 300 | | | | % of R.C. |
| Excitation, recommended | 10 | | | | VDC or VAC RMS |
| Excitation, maximum | 15 | | | | VDC or VAC RMS |
| Input impedance | 343–357 | | | | Ω |
| Output impedance | 349–355 | | | | Ω |
| Insulation resistance at 50 VDC | >1000 | | | | MΩ |
| Material | Stainless steel | | | | |
| Environmental protection | IP68 welded seals, glass to metal cable!! | | | | Special |
| Recommended torque | All capacities up to 5000 kg–136.0 5000 kg–205.0 | | | | N*m |

FSO—Full Scale Output

All specifications subject to change without notice.

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