

Multi-Column Load Cell



65092-TWA

FEATURES

- Rated capacities of 50,000 to 1,000,000 pounds
- Monolithic element design
- Exceptional sideloading tolerance
- Integral conduit adaptor
- Low profile
- *Sensorgage™* sealed to IP67 standards
- Factory Mutual System Approved for Classes I, II, III; Divisions 1 and 2; Groups A through G. Also, non-incendive ratings (No barriers!).

OPTIONAL FEATURES

- Alloy tool steel version available
- Compatible with Model 65092-TWA Weigh Module

DESCRIPTION

The 65094 is an ultra high capacity, alloy or stainless steel compression load cell.

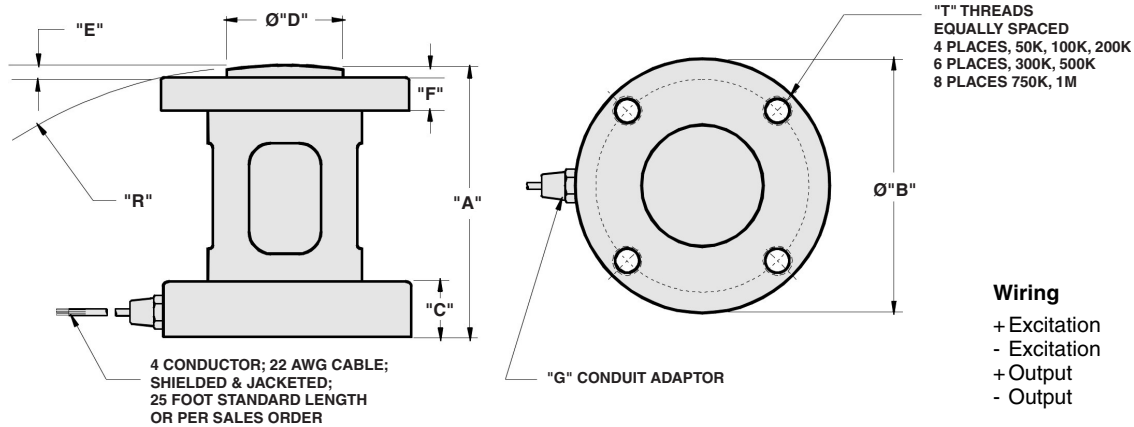
This product is specifically designed to be used in the 65092 tank weighing assembly and available in capacities up to 1 million lbs. In the 65092 assembly this load cell provides a simple solution to high capacity container weighing.

This Load cell is rated intrinsically safe by the Factory Mutual System (FM); making it suitable for use in potentially explosive environments.

APPLICATIONS

- Tank, bin and silo weighing
- Level and inventory monitoring
- High capacity loading

OUTLINE DIMENSIONS in inches



Wiring

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

| CAPACITY | A | B | C | D | E | F | R | T | G |
|----------|-------|-------|------|------|------|------|-------|-----------------------------------|------------|
| 50K | 3.25 | 2.88 | 1.00 | 1.25 | 0.19 | 0.44 | 6.00 | 3/8-24 x .40 DP on a 2.13 B.C. | 1/4-18 NPT |
| 100K | 5.00 | 3.94 | 1.25 | 2.31 | 0.25 | 0.75 | 6.00 | 1/2-20 x .88 DP on a 3.00 B.C. | 1/2-14 NPT |
| 200K | 6.63 | 5.94 | 1.50 | 3.00 | 0.25 | 0.87 | 17.00 | 3/4-16 x .88 DP on a 5.00 B.C. | 1/2-14 NPT |
| 300K | 7.00 | 5.94 | 1.75 | 3.00 | 0.25 | 1.00 | 17.00 | 3/4-16 x .88 DP on a 5.00 B.C. | 1/2-14 NPT |
| 500K | 7.75 | 7.94 | 2.00 | 5.56 | 0.50 | 1.25 | 30.00 | 1-1/4-12 x 1.40 DP on a 6.00 B.C. | 1/2-14 NPT |
| 750K | 12.00 | 10.94 | 3.00 | 5.97 | 0.50 | 2.00 | 50.00 | 1-1/2-12 x 2.0 DP on a 8.00 B.C. | 1/2-14 NPT |
| 1M | 12.00 | 10.94 | 3.00 | 5.97 | 0.50 | 2.00 | 50.00 | 1-1/2-12 x 2.0 DP on a 8.00 B.C. | 1/2-14 NPT |

Capacities are in pounds.

SPECIFICATIONS

| PARAMETER | VALUE | UNIT |
|-----------------------------------|---------------------------------------|----------------|
| Rated capacity-R.C. (E_{max}) | 50K, 100K, 200K, 300K, 500K, 750K, 1M | lbs |
| NTEP/OIML Accuracy class | Standard | |
| Maximum no. of intervals (n) | -- | |
| Rated output-R.O. | 2.0 | mV/V |
| Rated output tolerance | 0.25 | ±% mV/V |
| Zero balance | 1.0 | ±% FSO |
| Combined error | 0.10 | ±% FSO |
| Non-repeatability | 0.01 | ±% FSO |
| Creep error (20 minutes) | 0.03 | ±% FSO |
| Temperature effect on zero | 0.0015 | ±% FSO/°F |
| Temperature effect on output | 0.0008 | ±% 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) |
| Safe sideload | 30 | % 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 | 18 | Vdc or Vac rms |
| Input impedance | 400 - 500 | Ω |
| Output impedance | 349 - 355 | Ω |
| Insulation resistance at 50VDC | >1000 | MΩ |
| Material | Stainless steel | |
| Environmental protection | IP67 | |

* Nickel plated alloy steel available

FSO - Full Scale Output

R.C. - Rated Capacity

All specifications subject to change without notice.