

Stainless Steel, Multi-Column Compression Load Cell

FEATURES

- Capacity ranges of 25,000 to 200,000 pounds, 10 to 100 metric tons
- Stainless steel, welded seal construction
- Single piece multi-column design
- 3 times more side load capacity than other designs
- Integral conduit adaptor
- 35 feet [10.7m] standard cable length
- Trade certified for NTEP Class III:5000d, IIIL:10000d and OIML R-60 3000d
- Welded *Sensorgage*™ sealed to IP67 standards



APPLICATIONS

- Truck scales
- Railroad track scales
- Tank, bin and hopper weighing

is suitable for use in truck scales, rail scales and high capacity silo weighing applications.

DESCRIPTION

The 65088 is a high capacity, low profile, stainless steel compression load cell.

This product's stainless steel construction, welded seals and IP67 rating ensures ultimate survivability under harsh conditions.

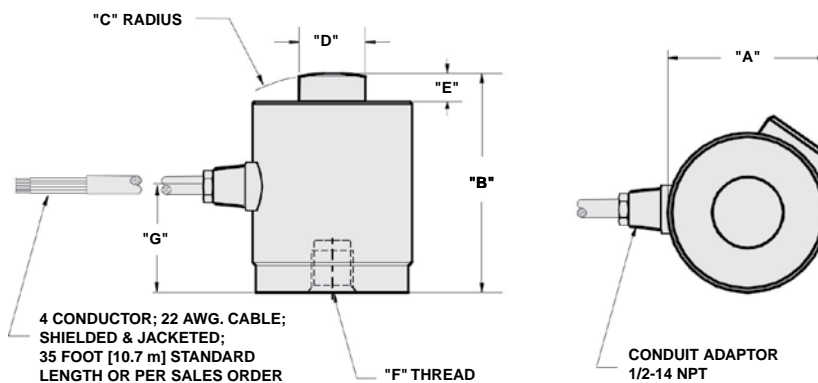
The unique four column design offers excellent insensitivity to eccentric loads. This design is one of the most successful compression cells ever produced and

This load cell is rated intrinsically safe by the Factory Mutual System (FM); making it suitable for use in potentially explosive environments. This load cell is certified for Legal For Trade applications by both American NTEP and International OIML standards.

OUTLINE DIMENSIONS in inches [millimeters]

Wiring

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



| CAPACITY | A | B | C | D | E | F | G |
|------------|---------|---------|---------|--------|--------|----------------------------|--------|
| 25k, 50k | 3.00 | 3.25 | 6.00 | 1.25 | 0.40 | 1/2-20 UNF - 2B x .31 Deep | 1.68 |
| 100k | 4.00 | 5.00 | 6.00 | 2.31 | 0.51 | 3/4-16 UNF - 2B x .56 Deep | 2.49 |
| 200k | 6.00 | 7.25 | 17.00 | 3.13 | 1.04 | 3/4-16 UNF - 2B x .75 Deep | 3.28 |
| [10T, 25T] | [76.2] | [82.6] | [152.4] | [31.7] | [10.2] | [M12 x 1.75 - 6H x 8 Deep] | [42.7] |
| [40T, 50T] | [101.6] | [127.0] | [152.4] | [58.7] | [13.0] | [M20 x 2.5 - 6H x 14 Deep] | [63.2] |
| [100T] | [152.4] | [184.2] | [431.8] | [79.5] | [26.4] | [M20 x 2.5 - 6H x 19 Deep] | [83.3] |

Capacities are in pounds [kg/T].

Stainless Steel, Multi-Column Compression Load Cell

| SPECIFICATIONS | | | | | |
|-----------------------------------|--|----------------|----------|----------|--------------------|
| PARAMETER | VALUE | | | | UNIT |
| Rated capacity—R.C. (E_{max}) | 25k, 50k, 100k, 200k 10T, 25T, 40T, 50T, 100T | | | | lbs metric tons |
| 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. 95-134 | | | 8333 | Maximum available |
| Rated output—R.O. | 2 | | | | 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 (20 minutes) | 0.025 | 0.03 | 0.03 | 0.017 | ±% FSO |
| Temperature effect on zero | 0.0010 | 0.0010 | 0.0015 | 0.0010 | ±% FSO |
| Temperature effect on output | 0.0008 | 0.0008 | 0.0008 | 0.0007 | ±% FSO/°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 | 400 | | | | % of R.C. |
| Excitation, recommended | 5–20 | | | | VDC or VAC RMS |
| Excitation, maximum | 25 | | | | VDC or VAC RMS |
| Input impedance | 445.5–454.5 | | | | Ω |
| Output impedance | 475.2–484.8 | | | | Ω |
| Insulation resistance at 50 VDC | >1000 | | | | MΩ |
| Material | Stainless steel | | | | |
| Environmental protection | IP67 | | | | |

FSO—Full Scale Output

R.C.—Rated Capacity

All specifications subject to change without notice.

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