

Vishay Sensortronics

Stainless Steel, Single Column Compression Load Cell



FEATURES

- Rated capacities of 50,000 to 100,000 pounds; 25 to 50 metric tons
- · Stainless steel, welded seal construction
- 30 feet standard cable length
- Trade certified for NTEP Class IIIL:10000 divisions and OIML R60 3000 divisions
- Welded *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 FEATURE

Fully hermetically sealed available to IP66/68 standards

DESCRIPTION

The 65114 is a high capacity, stainless steel single column compression load cell.

This product is specifically designed for use in rugged outdoor environments. Stainless steel construction with IP67 welded seal comes standard with optional true hermetic IP68 sealing available upon request. This load cell is used primarily in

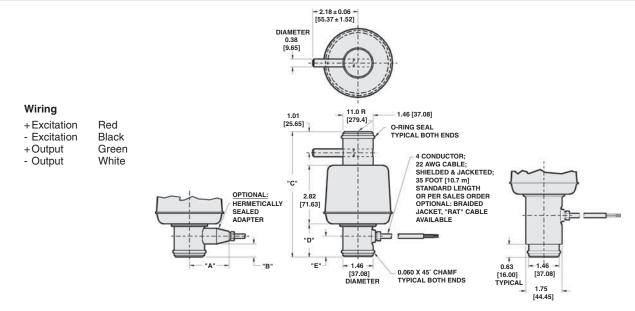
truck and train scales, but can just as easily be used to weigh tanks and silos.

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.

APPLICATIONS

- · Truck scales
- Tank, bin and hopper weighing

OUTLINE DIMENSIONS in inches [mm]



| CAPACITY | Α | В | С | D | E |
|-----------|---------|---------|----------|---------|---------|
| 50K | 1.91 | 0.62 | 6.00 | 1.59 | 1.00 |
| 100K | 2.08 | 2.01 | 8.86 | 3.04 | 2.01 |
| 25t | [48.51] | [15.75] | [152.40 | [40.39] | [25.40] |
| 35t - 50t | [52.83] | [51.05] | [225.04] | [77.22] | [51.05] |

Capacities are in pounds [kg/t].

RS

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SPECIFICATIONS

| PARAMETER | | UNIT | | |
|---|------------------------|------------|----------|-------------------|
| Rated capacity-R.C. (E _{max}) | 50K, 100K | | | lbs |
| nated capacity-n.c. (Lmax) | 25, 35, 50 | | | tons |
| NTEP/OIML Accuracy class | NTEP IIIL | Standard | OIML R60 | |
| Maximum no. of intervals (n) | 10000 multiple | | 3000 | |
| $Y = E_{max}/V_{min}$ | NTEP cert. 97-081 | | 8333 | Maximum available |
| Rated output-R.O. | 2.0 | | | mV/V |
| Rated output tolerance | | ±% mV/V | | |
| Zero balance | | ±% FSO | | |
| Combined error | 0.02 | 0.03 | 0.02 | ±% FSO |
| Non-repeatability | 0.010 | 0.015 | 0.010 | ±% FSO |
| Creep error (30 minutes) | 0.03 | 0.05 | 0.017 | ±% FSO |
| Temperature effect on zero | 0.0010 | 0.0015 | 0.0010 | ±% FSO/°F |
| Temperature effect on output | 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) |
| Maximum safe central overload | 150 | | | % of R.C. |
| Ultimate central overload | 300 | | | % of R.C. |
| Excitation, recommended | 5 - 20 | | | Vdc or Vac rms |
| excitation, maximum 25 | | | | Vdc or Vac rms |
| Input impedance | mpedance 1000 nominal | | | |
| Output impedance | | 990 - 1010 | Ω | |
| Insulation resistance at 50VDC | >1000 | | | MΩ |
| Material | Stainless steel | | | |
| Environmental protection | IP67* | | | |

^{*} Hermetically sealed to IP68 upon request

FSO -Full Scale Output

All specifications subject to change without notice.

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Legal Disclaimer Notice



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