

Model 65058

Sensortronics

Double-Ended Shear Beam Load Cell

FEATURES

- Rated capacities of 10,000 to 225,000 lbs
- Center-link loaded
- Integral conduit adaptor
- Trade certified for NTEP Class IIIL: 10000 divisions; Class III: 5000 divisions and OIML R60 3000 divisions in 20,000 to 100,000 lbs range
- 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
 - \circ 65058S stainless steel, welded seal version available
 - \circ 65058-TSA companion assemblies for vehicle scales
 - 65069-TWA companion assemblies for vessel weighing

APPLICATIONS

- Truck scales
- Railroad track scales
- Precision tank, bin and silo weighing
- Level and inventory monitoring

DESCRIPTION

The 65058 is a mid to high capacity, nickel-plated alloy steel, double ended Shear beam load cell.



This product is designed for use in certified truck and rail scales and is available in capacities ranging from 10,000 to 250,000 lbs.

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

This load cell is certified for legal for trade applications by both American NTEP and International OIML standards.

| | | | | | | | | | | r | I |
|--|----------|------|-------|-------|------|------|------|------|------|------|--------------------------|
| OUTLINE DIMENSIO | NS in in | ches | | | | | | | | | |
| RECESSED STAINLESS STEEL COVERS 4 PLACES "F" Ø THRU 2 PLACES "B" RADIUS "H" "L" CONDUIT ADAPTOR 4 CONDUCTOR; 22 AWG CABLE; SHIELDED & JACKETED; 35 FOOT STANDARD LENGTH OR PER SALES ORDER. Wiring + Excitation Red - Excitation Black + Output Green - Output White | | | | | | | | | | | |
| CAPACITY | A1 | A2 | В | C | D | F | G | Н | J | K | L |
| 10K, 15K, 20K, 25K | 1,69 | 1,94 | 7,75 | 6,5 | 1,7 | 0,68 | 1,38 | 0,75 | 0,9 | 1,63 | ¹ ⁄4 – 18 NPT |
| 50K, 60K, 75K | 2,44 | 2,94 | 10,25 | 8,5 | 2,65 | 1,06 | 1,93 | 1 | 1,37 | 2,54 | ½ − 14 NPT |
| 100K, 125K, 150K | 2,9 | 3,86 | 15,25 | 12,75 | 3,43 | 1,62 | 3,13 | 1,5 | 1,8 | 3,3 | ½ − 14 NPT |
| 200K-225K | 3,8 | 5,8 | 19,25 | 15,25 | 5,12 | 1,62 | 4 | 2 | 2,37 | 4,44 | ½ − 14 NPT |
| Capacities are in pounds. | | | | | | | | | | | |

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| SPECIFICATIONS | | | | | |
|--|--------------------|----------------------------|----------------|----------|-------------------|
| PARAMETER | | VALU | UNIT | | |
| Rated capacity—R.C. (E _{max}) | 10k, 15k, 20k | , 25k, 50k, 60k, 7 225k | lbs | | |
| NTEP/OIML accuracy class | NTEP III NTEP IIIL | | Standard | OIML R60 | |
| Maximum no. of intervals (n) | 5000 multiple | 10000 multiple | | 3000 | |
| $\mathbf{Y} = \mathbf{E}_{\max} / \mathbf{V}_{\min}$ | See NTEP c | ert. 86-046A3 | 6-046A3 | | Maximum available |
| Rated output-R.O. | | 3.0 | 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 | 0.01 | 0.015 | 0.01 | ±% FSO |
| Creep error (30 minutes) | 0.025 | 0.030 | 0.030 | 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 (- | °F (°C) | | |
| Operating temperature range | | 0 to 150 (–1 | °F (°C) | | |
| Storage temperature range | | -60 to 185 (- | °F (°C) | | |
| Sideload rejection ratio | | 500: | | | |
| 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 | | 5 25 | VDC or VAC RMS | | |
| Input impedance | | 686–7 | Ω | | |
| Output impedance | | 699–7 | Ω | | |
| Insulation resistance at 50 VDC | | >100 | ΜΩ | | |
| Material | | | | | |
| Environmental protection | 7 | | | | |

Notes

⁽¹⁾ Consult factory for capacities over 100k NTEP approval 20–200k lbs only

⁽²⁾ Stainless steel available-model name is 65058S

FSO-Full Scale Output

All specifications subject to change without notice.

Transducers

Celtron • Revere • Sensortronics • Tedea-Huntleigh



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