

Double-Ended Beam Load Cell

FEATURES

- Capacities: 25k to 75k lbs
- Environmental protection: IP67 (DIN 40.050)
- Material: Stainless steel
- Certified by NTEP class III, 10000 divisions
- **Optional**
 - FM approved for use in potentially explosive atmospheres

APPLICATIONS

- Weighbridges
- Silos, tanks and hoppers

DESCRIPTION

The 9803 is a medium to high capacity double-ended beam type load cell, made of stainless steel.

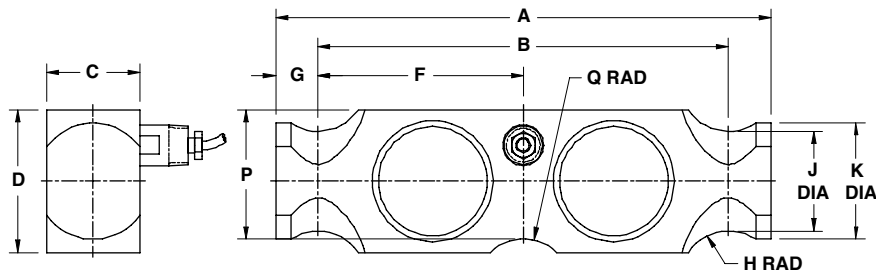
This product is designed for use in certified truck and rail scales and is available in capacities from 25k to 75k lbs.



A reliable sealing and mechanical protection of the strain gage area is ensured by the use of potting compound with a metal cover.

This load cell is rated intrinsically safe by the FM system, making it suitable for use in potentially explosive atmospheres.

OUTLINE DIMENSIONS in inches



Cable specifications

Cable length: 6m

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

Cable screen is not connected to the load cell body.

| Capacity (lbs) | 25k, 50k, 65k, 75k |
|----------------|--------------------|
| A | 10.25 |
| B | 8.50 |
| C | 1.94 |
| D | 2.94 |
| F | 4.25 |
| G | 0.88 |
| H Rad | 1.00 |
| ØK | 2.40 |
| ØJ | 2.06 |
| P | 2.66 |
| Q Rad | 1.00 |

Double-Ended Beam Load Cell

| SPECIFICATIONS | | | |
|-------------------------------------------|--------------------------|--------------|---------------------------|
| PARAMETER | VALUE | | UNIT |
| Standard capacities (E _{max}) | 25k, 50k, 65k, 75k | | lbs |
| Accuracy class according to NTEP | NTEP IIIIL | Non-Approved | |
| Maximum no. of verification intervals (n) | 10000d | | |
| Rated output (=S) | 3 | | mV/V |
| Rated output tolerance | 0.003 | | ±mV/V |
| Zero balance | 1.0 | | ±%FSO |
| Combined error | 0.0200 | 0.0500 | ±%FSO |
| Creep error (20 - 30 minutes) | 0.0300 | 0.0300 | ±% applied load |
| Temperature effect on zero | 0.0090 (0.0010) | 0.025 | ±% FSO/5°C (1°F) |
| Temperature effect on output | 0.0072 (0.0008) | 0.025 | ±% applied load/5°C (1°F) |
| Compensated temperature range | -10 to +40 (+14 to +104) | | °C (°F) |
| Operating temperature range | -53 to +93 -65 to +200) | | °C (°F) |
| Safe load limit | 150 | | % E _{max} |
| Ultimate load | 300 | | % E _{max} |
| Safe side load limit | 100 | | % E _{max} |
| Excitation voltage recommended | 10 | | V |
| Excitation voltage maximum | 15 | | V |
| Input resistance | 700±7 | | Ω |
| Output resistance | 700±7 | | Ω |
| Insulation resistance | ≥5000 | | MΩ |
| Environmental protection | IP67 | | |
| Element material | Stainless steel | | ASTM |

FSO—Full Scale Output

Mounting:

Correct mounting of the load cells is essential to ensure optimum accuracy and performance. Further information is available upon request.

All specifications subject to change without notice.



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