

Alloy Steel Double-Ended Shear Beam

FEATURES

- Capacities 10k–75k lbs
- Low profile design for weigh bridge and silo applications
- Nickel plated alloy steel construction
- NTEP approved
- IP67 protection
- **Optional**
 - EEx ia IIC T6 hazardous area approval
 - FM and IECEx approvals available



APPLICATIONS

- Weigh bridges
- Tank and silo weighing



DESCRIPTION

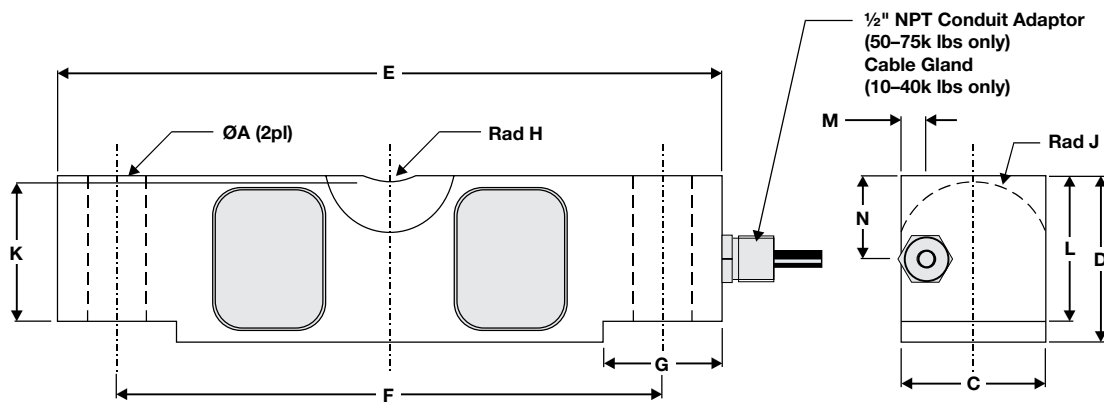
The Model 4158 is a double-ended shear beam load cell designed for high capacity silo weighing applications.

This high accuracy load cell is designed to meet NTEP standards. When combined with suitable mounting arrangements, this load cell will provide a simple, accurate and reliable weighing system.

Nickel plated and full environmental sealing assure long-term reliability. For hazardous environments, this load cell has a EEX ia IIC T6 approved option.

When used in conjunction with Tedea-Huntleigh's custom designed mount, the unit combines ease of installation with both side load and lift-off protection.

OUTLINE DIMENSIONS in millimeters



| CAPACITY | ØA | C | D | E | F | G | RadH | Rad J | K | L | M | N |
|------------|------|------|------|-------|-------|------|------|-------|------|------|------|------|
| 10–25k lbs | 17.3 | 42.9 | 49.3 | 196.9 | 165.1 | 35.9 | 19.1 | 22.9 | 41.4 | 43.2 | 8.8 | 13.6 |
| 40k lbs | 20.6 | 49.3 | 62.0 | 260.4 | 215.9 | 49.0 | 25.4 | 28.5 | 50.8 | 53.3 | 9.0 | 31.0 |
| 50–75k lbs | 26.9 | 62.0 | 74.7 | 260.4 | 215.9 | 49.0 | 25.4 | 34.8 | 64.5 | 67.3 | 10.4 | 37.4 |

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| SPECIFICATIONS | | |
|-----------------------------------------|--------------------------------------------|-----------------------|
| PARAMETER | VALUE | UNIT |
| Rated capacity—R.C. (E _{max}) | 10, 20, 25, 40, 50, 60, 75 ⁽¹⁾ | Klbs |
| NTEP/OIML accuracy class | NTEP | Non-Approved |
| Maximum no. of intervals (n) | 10000 IIIL | 1000 |
| Y = E _{max} /V _{min} | 12000 | 4000 |
| Rated output—R.O. | 3.0 | mV/V |
| Rated output tolerance | 0.075 | ±mV/V |
| Zero balance | 0.09 | ±mV/V |
| Zero return, 30 min. | 0.030 | ±% of applied load |
| Total error | 0.30 | ±% of rated output |
| Temperature effect on zero | 0.0013 | ±% of rated output/°C |
| Temperature effect on output | 0.0025 | ±% of applied load/°C |
| Temperature range, compensated | –10 to 40 | °C |
| Temperature range, safe | –30 to +70 | °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 | 15 | VDC or VAC RMS |
| Input impedance | 780±20 | Ω |
| Output impedance | 705±5 | Ω |
| Insulation resistance | >1000 | MΩ |
| Cable length | 7.5 | m |
| Cable type | 6-wire, braided, PVC, dual floating screen | Standard |
| Construction | Nickel-plated alloy steel | |
| Environmental protection | IP67 | |

⁽¹⁾10k lbs is not approved by NTEP

All specifications subject to change without notice.

Wiring Schematic Diagram

