

Double-Ended Beam Load Cell

FEATURES

• Capacities: 1k to 75k lbs

• Environmental protection: IP67 (DIN 40.050)

• Material: nickel-plated steel

• Center-loaded design

Optional

 FM certified versions are available for use in potentially explosive atmospheres

APPLICATIONS

- Silo, tank, hopper weighing
- · Custom system designs
- · Low capacity vehicle scales

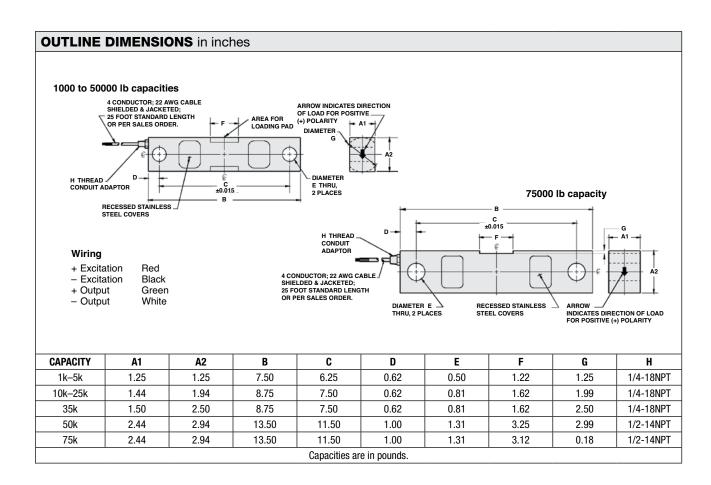
DESCRIPTION

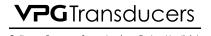
The 5203 is a double-ended shear beam type load cell.



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

The center-loaded design results in minimal sensitivity to off-center forces.





Double-Ended Beam Load Cell

| SPECIFICATIONS | | |
|--|---|--------------------|
| PARAMETER | VALUE | UNIT |
| Standard capacities (E _{max}) | 1k, 1.5k, 2k, 2.5k, 5k, 10k, 15k, 20k, 25k, 35k, 50k, 75k | lbs |
| Accuracy class | Non Approved - D3 | |
| Rated output (=S) | 3 | mV/V |
| Rated output tolerance | 0.008 | ±mV/V |
| Zero balance | 1.0 | ±% FSO |
| Combined error | 0.03 | ±% FSO |
| Creep error (20 minutes) | 0.03 | ±% FSO |
| Temperature effect on minimum dead load output | 0.0015 | ±% FSO/°F (/5°C) |
| Temperature effect on sensitivity | 0.0008 | ±% FSO/°F (/5°C) |
| Maximum safe overload | 150 | % E _{max} |
| Ultimate overload | 300 | % E _{max} |
| Maximum safe side load | 100 | % E _{max} |
| Excitation voltage | 10 | V |
| Maximum excitation voltage | 15 | V |
| Input resistance | 700±14 | Ω |
| Output resistance | 697±4 | Ω |
| Insulation resistance | ≥1000 | ΜΩ |
| Compensated temperature range | -10 to +40 (+14 to +104) | °C (°F) |
| Operating temperature range | -18 to +65 (0 to +150) | °C (°F) |
| Element material (DIN) | Nickel-plated alloy steel | |
| Sealing (DIN 40.050 / EN60.529) | IP67 | |

FSO-Full Scale Output

All specifications subject to change without notice.



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