

DB Series

Double-ended Shear Beam, High-Capacity Load Cells



- 50,000 and 75,000 lb capacities
- Environmentally-sealed (IP68)
- Stainless steel construction
- NTEP and OIML certified (DB75K not OIML)

MECHANICAL DATA

| Rated Capacity, (R.C.) E _{max} | 50,000 lb / 22,680 kg 75,000 lb / 34,019 kg |
|---|--|
| Minimum Dead Load | 350 lb / 160 kg |
| Safe Load Limit | 150% R.C. |
| Ultimate Load | 300% R.C. DB-50000S 200% R.C. DB-75000S |
| Deflection at R.C. | .015 in / 0.38 mm |
| Net Weight | 9 lb / 4 kg |

CERTIFICATE DATA

| Issuing Body | NTEP | OIML (DB50K only) |
|---|------------------------------|-----------------------|
| Certificate Number | 97-133 | R60/1991- DK-99.01 |
| Accuracy Class | IIIL | C3 |
| Maximum Number of Load Cell Intervals, n _{max} | 10,000 | 3,000 |
| Minimum Load Cell Verification Interval V _{min} | DB50K 1.4 lb DB75K 2.1 lb | 2.5 kg 2.5 kg |

Cardinal Scale's heavy-capacity DB series doubleended shear beam load cells are ideal for multiple
load cell applications such as vehicle scales
and heavy-duty tank weighing systems. These
load cells are fabricated from stainless steel to
provide the ultimate in protection when caustic,
corrosive or wet environments are encountered.
They are environmentally-sealed for absolute water
protection (IP68). Each load cell is furnished with a
50-ft/15-m integral multiconductor cable secured
by strain relief seal. 50,000 and 75,000 lb /
22,680 and 34,019 kg capacities.

ELECTRICAL DATA

| Rated Output | $2 \pm 0.1\%$ mV/V |
|---|--------------------------------|
| Excitation Voltage, Maximum | 15 VDC |
| Cable Length | 50 ft / 15.2 m |
| Terminal Resistance Excitation Signal | 787 ± 40 ohms 702 ± 10 ohms |
| Zero Load Output | ± 1% R.C. |
| Insulation Resistance | >5000 megohms at 50 VDC |

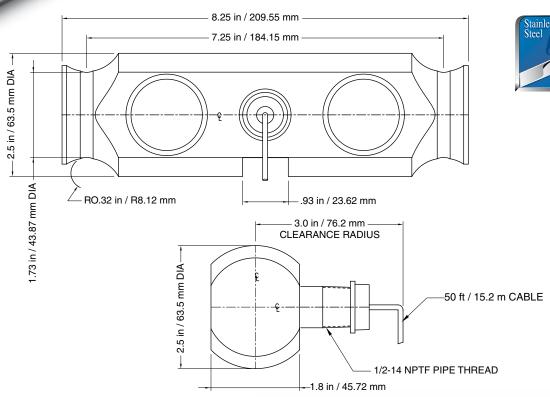
ENVIRONMENTAL DATA

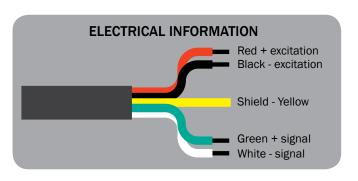
| Temperature Compensation Range | -10° to +40°C |
|------------------------------------|---------------|
| Operating Temperature Range | -29° to +93°C |
| Construction & Protection Code | CP-67 HU IP68 |

DB Series

High-Capacity, Double-Ended **Shear Beam Load Cells**









CERTIFICATIONS



The DB-50000S load cell meets all requirements of OIML R60 and has been issued OIML Certificate No. R60/1991-DK-99.01



The DB-50000S and DB-75000S load cells meet all requirements of Handbook 44, issued by the National Institute of Standards and Technology and have been issued the NTEP Certificate of Conformance No. 97-133.

VCAP CERTIFIED

Cardinal Scale has been formally audited and found to be fully compliant with the Verified Conformity Assessment Program (VCAP) administered by the National Type Evaluation Program (NTEP) of the National Conference on Weights and Measures (NCWM).

Cardinal Scale reserves the right to improve, enhance or modify features and specifications without prior notice. All registered trademarks are the property of their respective owners.

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