

# **DB Series**

## Double-ended Shear Beam, High-Capacity Load Cells



Cardinal Scale's USA-made heavy-capacity DB series double-ended 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 environmentallysealed for absolute water protection (IP68). Each load cell is furnished with a 32-ft/10-m integral multiconductor cable secured by strain relief seal. 50,000 and 75,000 lb / 22,500 and 34,000 kg capacities.

#### ELECTRICAL DATA

Rated Output	2 ± 0.1% mV/V	
Excitation Voltage, Minimum	Voltage, Minimum 10 VDC	
Excitation Voltage, Maximum	15 VDC	
Cable Length	32 ft / 10 m	
<b>Terminal Resistance</b> 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
<b>Construction &amp; Protection Code</b>	CP-67 HU, IP68

- 50,000 and 75,000 lb capacities
- Environmentally-sealed (IP68)
- Stainless steel construction
- NTEP and OIML certified
- 2-year warranty

#### MECHANICAL DATA

Rated Capacity, (R.C.) E <sub>max</sub>	50,000 lb / 22,500 kg 75,000 lb / 34,000 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

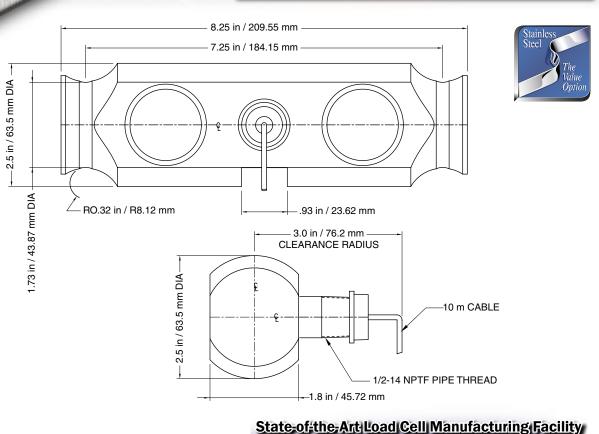
Issuing Body	NTEP	OIML
Certificate Number	97-133	R60/1991- DK-99.01
Accuracy Class	IIIL	C3
Maximum Number of Load Cell Intervals, n <sub>max</sub>	10,000	3,000
Minimum Load Cell Verification Interval V <sub>min</sub>	DB50K 1.4 lb DB75K 2.1 lb	2.5 kg 2.5 kg

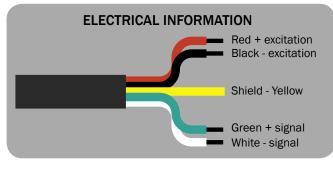
MADE IN USA



High-Capacity, Double-Ended Shear Beam Load Cells







ISO 9001 Quality Environment





#### VCAP CERTIFIED Cardinal Scale has been formally audited and

Carolinal Scale has been formally addited 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).

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