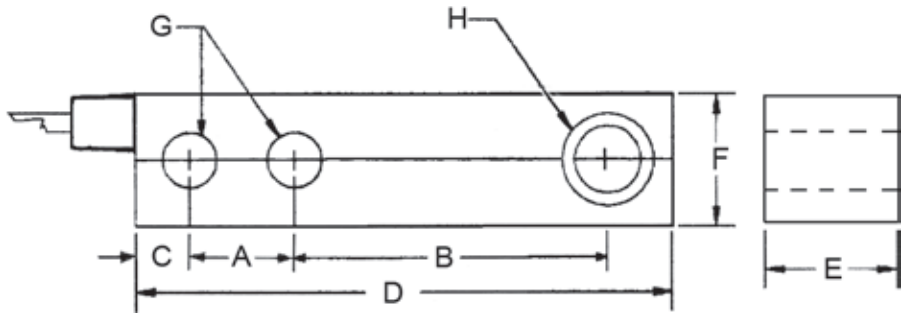
DSB

BEAM LOAD CELL

TOTALCOMP
Model DSB

High quality, affordable shear beam used in harsh environment applications

- ✓ *Alloy tool steel housing nickel plated finish.*
- ✓ *Accurate and reliable weighing performance.*
- ✓ *Environmentally sealed.*
- ✓ *Capacities from 500 lb. to 10,000 lb.*
- ✓ *Four conductor, 12 ft. cable.*
- ✓ *Interchangeable with TSB, 65023 and 5123 load cells.*



Model DSB

DSB DIAMOND BEAM LOAD CELL

The DSB series beam load cells are top quality durable units. The unit features and IP67-compliant alloy tool steel metal housing to resist dust, water, and other contaminants

Part Number	Capacity	Weight	A	B	C	D	E	F	G	H
DSB-500	500 lb	3 lb	1.00	3.00	0.60	5.12	1.25	1.25	0.53	1/2-20UNF
DSB-1K	1,000 lb	3 lb	1.00	3.00	0.60	5.12	1.25	1.25	0.53	1/2-20UNF
DSB-1.5K	1,500 lb	3 lb	1.00	3.00	0.60	5.12	1.25	1.25	0.53	1/2-20UNF
DSB-2K	2,000 lb	3 lb	1.00	3.00	0.60	5.12	1.25	1.25	0.53	1/2-20UNF
DSB-2.5K	2,500 lb	3 lb	1.00	3.00	0.60	5.12	1.25	1.25	0.53	1/2-20UNF
DSB-4K	4,000 lb	3 lb	1.00	3.00	0.60	5.12	1.25	1.25	0.53	1/2-20UNF
DSB-5KSE	5,000 lb	3 lb	1.00	3.00	0.60	5.12	1.25	1.25	0.53	1/2-20UNF
DSB-5K	5,000 lb	5 lb	1.50	3.75	0.75	6.75	1.50	1.50	0.78	3/4-16UNF
DSB-10K	10,000 lb	5 lb	1.50	3.75	0.75	6.75	1.50	1.50	0.78	3/4-16UNF

Performance

Full Scale Output
3.00 mV/V

Combined Error
±0.03% FS

Nonlinearity
±0.03% FS

Hysteresis
±0.02%

Creep
±0.02% FS in 1 hour

Non-Repeatability
±0.01% FS

Zero Balance
±1.0% FS

Overload Safe
150% FS

Overload Ultimate
300% FS

Electrical

Bridge Resistance
Input 350 ohms
Output 350 ohms

Excitation Voltage
10 VDC (15VDC Max)

Insulation Resistance
10KMohms@50VDC

Temperature

Compensated Range
-10°C to +40°C

Temperature Operating Range
-18°C to +65°C

Effect on Zero Balance
0.0015% FS/deg F

Effect on FS Output
0.0008% FS/deg F

Mechanical

Material
Alloy Tool Steel

Finish
Nickel Plated

Sealing
IP67

Wiring

Cable Length & Type
20 foot, 4 conductor

Cable Color Code
+ Excitation…….Red
- Excitation……Black
+ Output……...Green
- Output……..White
Shield……....Bare