

## Cylindrical Double-Ended Shear Beam

### FEATURES

- Capacities 5k–150k lbs
- Center-loaded double-ended shear beam design
- Free of horizontal movement
- Insensitive to side load
- Electroless nickel-plated alloy tool steel
- NTEP Class IIIL 10000 approval from 20k lbs to 150k lbs
- **Optional**
  - FM approval available
  - EDOC option available; product appearance will differ from the photograph due to coating



### APPLICATIONS

- Truck/rail scales
- Silo/hopper/tank weighing
- Fork-lift scales

### DESCRIPTION

The Model CSB is constructed of alloy steel and is fully potted with special chemical compounds to IP67,

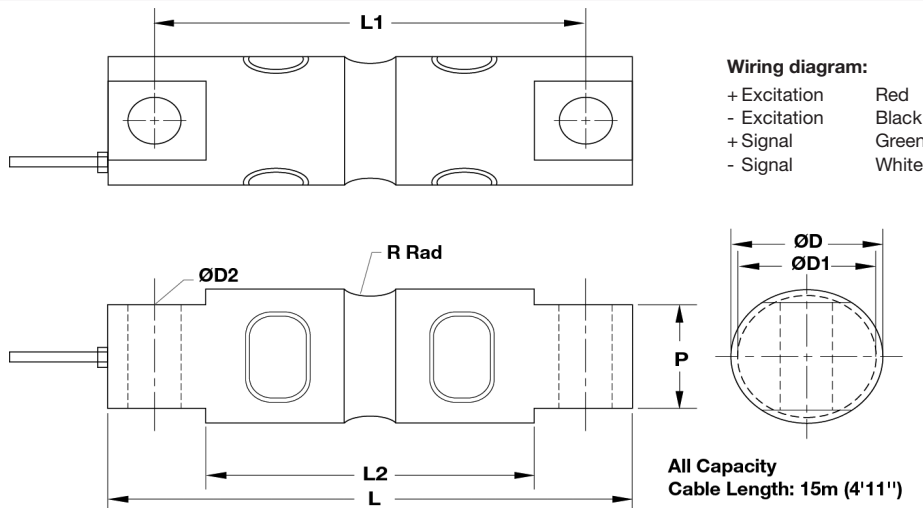
providing excellent protection against moisture and humidity.

The double-ended mounting provides good restraint for possible movement of tanks and, in many cases, eliminates the need for check rods.

The shear beam design gives excellent performance for high capacity loading.

The cylindrical construction provides easy installation with simple loading features.

### OUTLINE DIMENSIONS



CAPACITY		L	L1	L2	D	D1	D2	P	R
5k/10k lbs	mm	206.3	174.8	133.1	43.2	37.7	16.8	28.5	12.7
	(inch)	8.12	6.88	5.24	1.70	1.48	0.66	1.12	0.50
20k lbs	mm	206.3	174.8	133.1	49.5	37.9	16.8	28.5	12.7
	(inch)	8.12	6.88	5.24	1.95	1.49	0.66	1.12	0.50
30k/40k/50k/60k lbs	mm	260.4	215.9	164.8	76.2	69.4	26.9	60.2	25.4
	(inch)	10.25	8.50	6.49	3.20	2.73	1.06	2.37	1.00
100k lbs	mm	285.8	241.3	190.2	88.9	82.3	26.9	63.5	25.4
	(inch)	11.25	9.50	7.49	3.5	3.24	1.06	2.50	1.00
150k lbs	mm	285.8	241.3	190.2	99.1	92.5	26.9	71.1	38.1
	(inch)	11.25	9.50	7.49	3.90	3.64	1.06	2.80	1.50

Above dimensions apply to non-EDOC-coated load cells.

## Cylindrical Double-Ended Shear Beam

SPECIFICATIONS			
PARAMETER	VALUE		UNIT
NTEP/OIML accuracy class	NTEP IIIIL	Non-Approved	
Maximum no. of intervals (n)	10000 multiple*		
Y = E <sub>max</sub> /V <sub>min</sub>	14000	5000	Maximum available
Standard capacities (E <sub>max</sub> )	5k, 10k, 20k, 30k, 40k, 50k, 60k, 100k, 150k		lbs
Rated output—R.O.	3.0		mV/V
Rated output tolerance	0.25		±% of rated output
Zero balance	1		±% of rated output
Non-linearity	0.025		±% of rated output
Hysteresis	0.025		±% of rated output
Non-repeatability	.02		±% of rated output
Creep error (20 minutes)	0.030		±% of rated output
Zero return (20 minutes)	0.030		±% of rated output
Temperature effect on min. dead load output	0.0010	0.0026	±% of rated output/°C
Temperature effect on sensitivity	0.0010	0.0015	±% of applied load/°C
Compensated temperature range	-10 to +40		°C
Operating temperature range	-20 to +60		°C
Safe overload	150		% of R.C.
Ultimate overload	300		% of R.C.
Excitation, recommended	10		VDC or VAC RMS
Excitation, maximum	15		VDC or VAC RMS
Input impedance	770±10		Ω
Output impedance	700±5		Ω
Insulation resistance	>5000		MΩ
Construction	Nickel-plated alloy steel		
Environmental protection	IP67		

\*Capacities 20k–150k lbs only

All specifications subject to change without notice.

### FM Approval

Intrinsically Safe: Class I, II, III; Div. 1 Groups A-G

Non-Incendive: Class I; Div. 2 Groups A-D

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