

## Double-Ended Shear Beam

### FEATURES

- Capacities 1k–75k lbs
- Double-ended center-load shear beam design
- Rationalized outputs
- Free of horizontal movement
- Insensitive to side load
- Electroless nickel-plated alloy tool steel
- **Optional**
  - Hermetically sealed available
  - Stainless steel available
  - FM approval available



### APPLICATIONS

- Silo/hopper/tank weighing

### DESCRIPTION

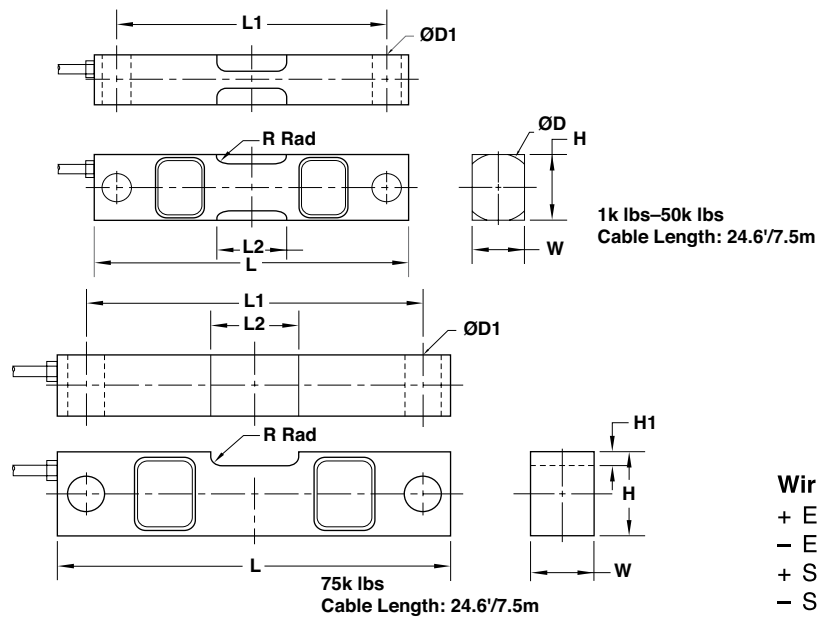
The double-ended mounting provides good restraint to possible movement of the tanks and, in many cases, eliminates the need for check rods.

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

The output is rationalized to facilitate multiple-cell application.

DSR is constructed of alloy tool steel and is potted to IP67 providing excellent protection against moisture and humidity.

### OUTLINE DIMENSIONS



CAPACITY		L	L <sub>1</sub>	L <sub>2</sub>	W	H	H <sub>1</sub>	D	D <sub>1</sub>	R
1k / 1.5k / 2k / 2.5k / 3k / 5k lbs	mm	190.5	158.8	35.4	31.7	31.7	-	31.7	12.7	5.0
	(inch)	7.50	6.25	1.39	1.25	1.25	-	1.25	0.50	0.20
10k / 15k / 20k / 25k lbs	mm	222.3	190.5	50.0	36.6	49.3	-	50.8	20.6	5.0
	(inch)	8.75	7.50	1.97	1.44	1.94	-	2.00	0.81	0.20
50k / 75k lbs	mm	342.9	292.1	82.6	62.0	74.7	4.6	76.2	33.3	5.0
	(inch)	13.50	11.50	3.25	2.44	2.94	0.18	3.00	1.31	0.20

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<b>SPECIFICATIONS</b>		
<b>PARAMETER</b>	<b>VALUE</b>	<b>UNIT</b>
<b>NTEP/OIML accuracy class</b>	Non-Approved	
<b>Y = E<sub>max</sub>/V<sub>min</sub></b>	5000	Maximum available
<b>Standard capacities (E<sub>max</sub>)</b>	1k, 1.5k, 2k, 3k, 5k, 10k, 15k, 20k, 25k, 50k, 75k	lbs
<b>Rated output – R.O.</b>	3.0	mV/V
<b>Rated output tolerance</b>	0.25	±% of rated output
<b>Zero balance</b>	1	±% of rated output
<b>Non-linearity</b>	0.030 (SS: 0.07%)	±% of rated output
<b>Hysteresis</b>	0.030 (SS: 0.07%)	±% of rated output
<b>Non-repeatability</b>	0.02	±% of rated output
<b>Creep error (20 minutes)</b>	0.030	±% of rated output
<b>Zero return (20 minutes)</b>	0.030	±% of rated output
<b>Temperature effect on min. dead load output</b>	0.0026	±% of rated output/°C
<b>Temperature effect on sensitivity</b>	0.0015	±% of applied load/°C
<b>Compensated temperature range</b>	-10 to +40	°C
<b>Operating temperature range</b>	-20 to +60	°C
<b>Safe overload</b>	150	% of R.C.
<b>Ultimate overload</b>	300	% of R.C.
<b>Excitation, recommended</b>	10	VDC or VAC RMS
<b>Excitation, maximum</b>	15	VDC or VAC RMS
<b>Input impedance</b>	770±10	Ω
<b>Output impedance</b>	700±5	Ω
<b>Insulation resistance</b>	>5000	MΩ
<b>Construction</b>	Nicke-plated alloy steel	
<b>Environmental protection</b>	IP67	

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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