

Double-Ended Link Shear Beam

FEATURES

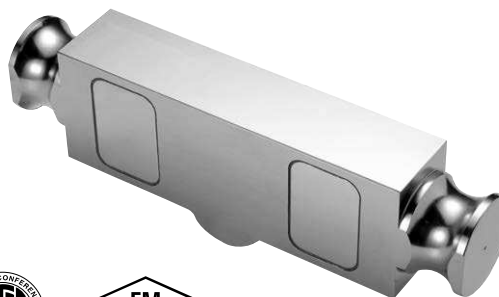
- Capacities 25k–125k lbs
- Center-mounted with double-linked shear beam design
- Free of horizontal movement
- Insensitive to side load
- Electroless nickel-plated alloy tool steel
- NTEP Class III L 10000 for whole series
- **Optional**
 - Surge protection optional for 60k lbs
 - FM approval available

APPLICATIONS

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

DESCRIPTION

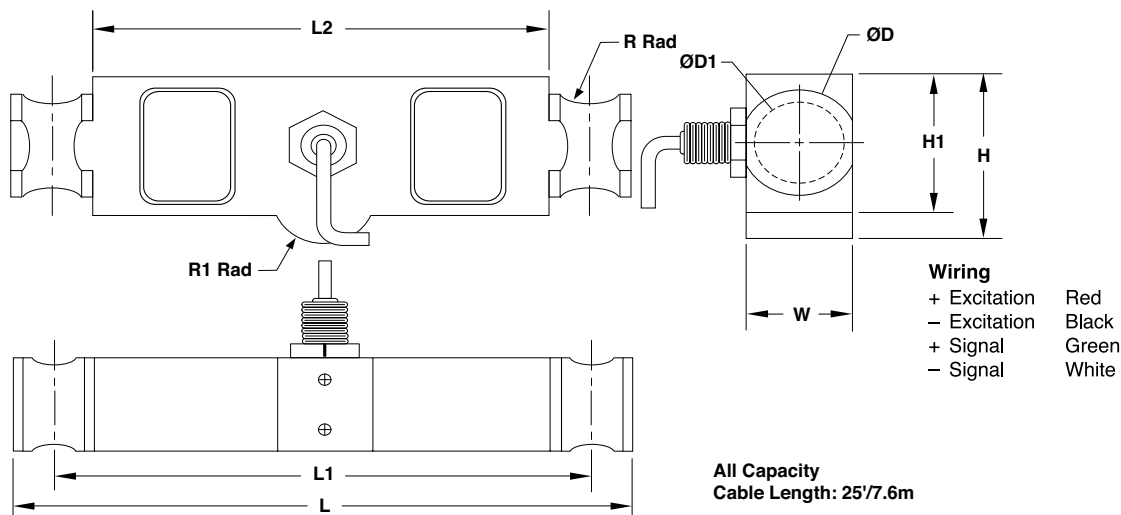
The Model DLB is designed to be center-mounted with double-linked loading. This design provides free movement in all horizontal directions virtually eliminating



binding or friction points. The Shear Beam design gives excellent performance for high capacity loading.

The Model DLB is constructed of alloy steel and is fully potted and sealed with special compounds to IP67, providing excellent protection against moisture and humidity.

OUTLINE DIMENSIONS



CAPACITY		L	L ₁	L ₂	W	H	H ₁	D	D ₁	R	R ₁
25k/40k lbs	mm	209.6	184.2	158.8	49.3	75.5	62.0	50.8	41.4	12.7	12.7
	(inch)	8.25	7.25	6.25	1.94	2.97	2.44	2.00	1.63	0.50	0.50
50k/60k/75k lbs	mm	292.1	254.0	215.9	49.3	88.2	74.7	55.9	43.2	19.1	25.4
	(inch)	11.50	10.00	8.50	1.94	3.47	2.94	2.20	1.70	0.75	1.00
100k/125k lbs	mm	368.3	317.5	266.7	73.7	118.9	98.0	81.3	62.0	25.4	38.1
	(inch)	14.50	12.50	10.5	2.90	4.68	3.86	3.20	2.44	1.00	1.50

Double-Ended Link Shear Beam

SPECIFICATIONS			
PARAMETER	VALUE		UNIT
NTEP/OIML accuracy class	NTEP III L	Non-Approved	
Maximum no. of intervals (n)	10000 multiple		
$Y = E_{max}/V_{min}$	14000	5000	Maximum available
Standard capacities (E_{max})	25k, 40k, 50k, 60k, 75k, 100k, 125k		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	0.02		±% 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		

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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