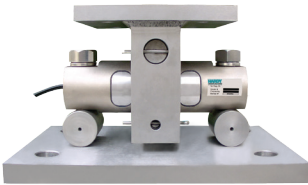


# Double Ended Shear Beam



## DSB01C Load Sensor and MDSB01C Mount Double Ended Shear Beams



The Hardy DSB01C Double Ended Shear Beam load cells are designed for use on medium to high capacity vessels. The DSB01C series offer high accuracy and reliable performance with Hardy's industry leading C2 Electronic Calibration technology. Ideal for high capacity tanks and vessels, the DSB01C is a dependable workhorse suitable for heavy duty applications.

The load cells are either alloy steel (DSB01C-AS) or stainless steel (DSB01C-SS) construction. Both Stainless Steel and Nickel plated alloy steel come in 5Klb to 250Klb (2.27 to 113.4 Metric Tons), with mounting hardware available separately. They are oil proof, waterproof and non-corrosive, making them suitable for all kinds of environments. They have a protection rating of IP67. Both series come with a 9m (30 ft) cable.

SPECIFICATIONS	DSB01C-SS	DSB01C-AS
Rated Output (ES)	3±0.003mV/V	3±0.003mV/V
Max # Verification Int.	3000	3000
Min Verification Int.	E <sub>max</sub> /7500	E <sub>max</sub> /12500
Zero Balance	< ±1.0 % R.O.	< ±1.0 % R.O.
Combined Error	< ±0.023 % R.O.	< ±0.023 % R.O.
Input Resistance	700±7 ohm	700±7 ohm
Output Resistance	703 ± 4 ohm	703 ± 4 ohm
Insulation Resistance	>5000 Mohm@50 VDC	>5000 Mohm@50VDC
Excitation	5 - 12 vdc	5 - 12 vdc
Safe Load Limit	150% E <sub>max</sub>	150% E <sub>max</sub>
Ultimate Load	300 % E <sub>max</sub>	300 % E <sub>max</sub>
Sensor Material	Stainless Steel 17-4PH	Nickel Plated Alloy Steel
Max Anti Rotation	40% E <sub>max</sub>	40% E <sub>max</sub>
Max Anti Side Loading	20% E <sub>max</sub>	20% E <sub>max</sub>
Max Vertical Lifting	5-20Klb: 3.3K (1.5mt) 30-75Klb: 11K (5 mt) 100-150Klb: 16.5K (7.5mt) 200-250Klb: 68K (31 mt)	5-20Klb: 3.3K (1.5mt) 30-75Klb: 11K (5 mt) 100-150Klb: 16.5K (7.5mt) 200-250Klb: 68K (31 mt)
Sealing	Potted	Potted
Approvals	CE, IP67	CE, IP67
Warranty	Two years	Two years

All information and drawings on these pages are subject to change without notice. Consult website for latest specifications.

C2 WIRE COLOR CODE FLAG LABEL IS FOUND APPROX. 10 IN. FROM END OF SENSOR'S CABLE

EXCITATION +	RED
EXCITATION -	BLACK
SIGNAL +	GREEN
SIGNAL -	WHITE
C2+	GRAY
C2 -	VIOLET
SHIELD	YELLOW

WARNING: NEVER cut load sensor cable

CABLE LENGTH 9 METERS

### ORDERING INFORMATION

Shipping Weight is 5lbs to 46lbs for Sensors; 30lbs to 720lbs for mounts. For both sensors or mounts order SS for Stainless Steel and AS for Alloy Steel.

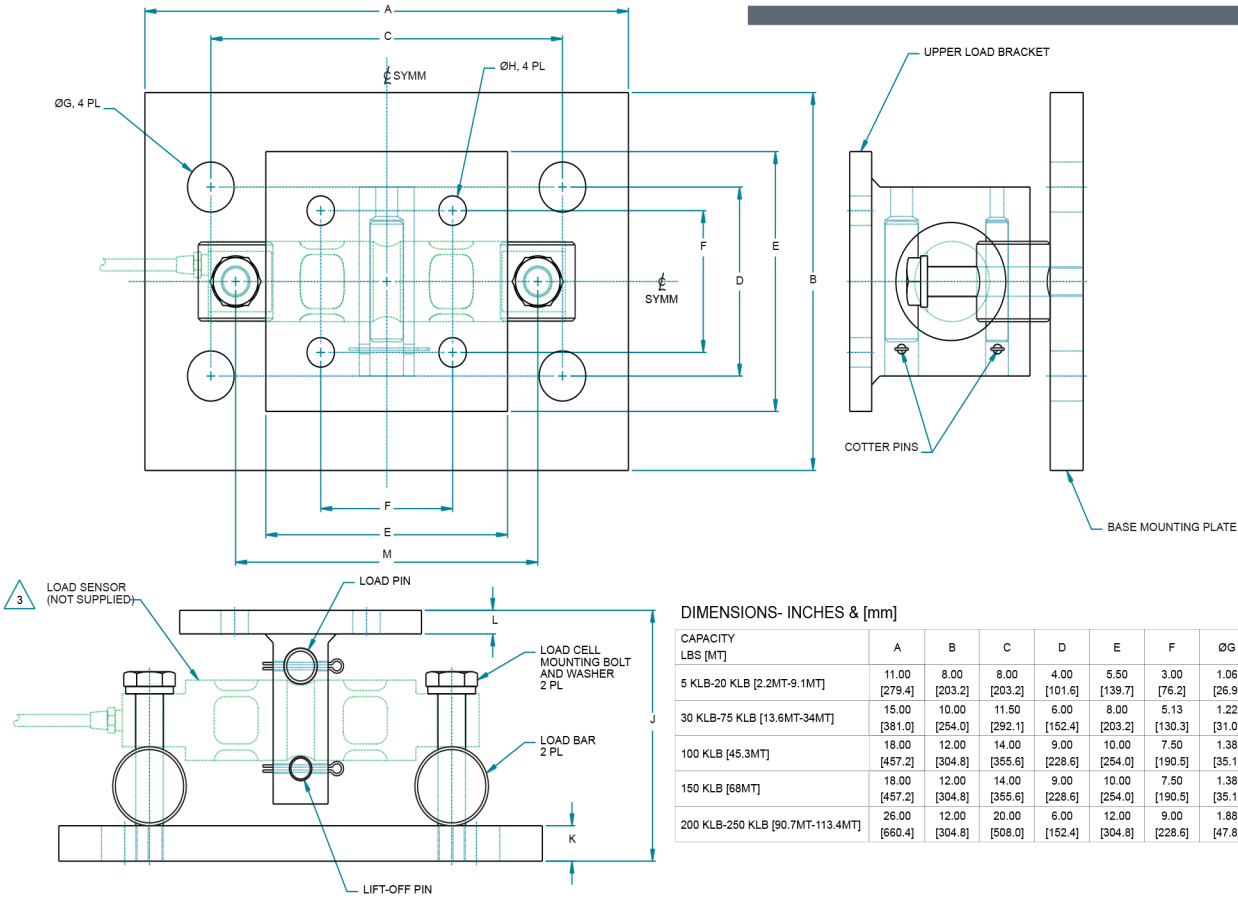
Capacity		Model#
Klbs	mt*	DSB01C Sensors
5Klb	2.27mt	DSB01C-_S-5KLB
10Klb	4.54mt	DSB01C-_S-10KLB
20Klb	9.1mt	DSB01C-_S-20KLB
30Klb	13.62mt	DSB01C-_S-30KLB
50Klb	22.7mt	DSB01C-_S-50KLB
60Klb	27.2mt	DSB01C-_S-60KLB
75Klb	34mt	DSB01C-_S-75KLB
100Klb	45.4mt	DSB01C-_S-100KLB
150Klb	68mt	DSB01C-_S-150KLB
200Klb	90.8mt	DSB01C-_S-200KLB
250Klb	113.4mt	DSB01C-_S-250KLB

MDSB01C Mount capacity		Model#
Klbs	mt*	Mount
5-20Klb	2.27 to 9.1mt	MDSB01C-_S-5-20KLB
30-75Klb	13.6 to 34mt	MDSB01C-_S-30-75KLB
100Klb	45.4mt	MDSB01C-_S-100KLB
150Klb	68mt	MDSB01C-_S-150KLB
200-250Klb	90.8 to 113.4mt	MDSB01C-_S-200-250KLB

Use SS for Stainless Steel, AS for Alloy Steel

\* Metric Tons estimated from lbs conversion.

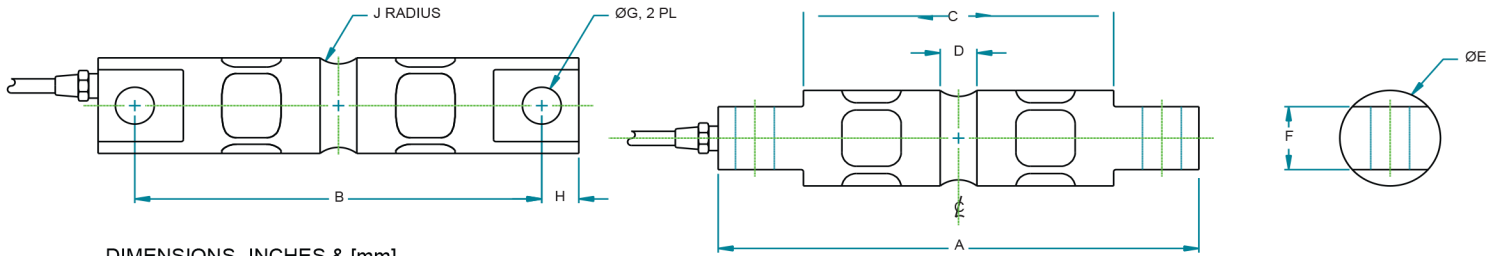
# HI MDSB01C Double Ended Shear Beam Mount



DIMENSIONS- INCHES & [mm]

CAPACITY LBS [MT]	A	B	C	D	E	F	ØG	ØH	J	K	L	M
5 KLB-20 KLB [2.2MT-9.1MT]	11.00 [279.4]	8.00 [203.2]	8.00 [203.2]	4.00 [101.6]	5.50 [139.7]	3.00 [76.2]	1.06 [26.9]	.63 [16.0]	5.48 [139.2]	.75 [19.1]	.50 [12.7]	6.875 [174.63]
30 KLB-75 KLB [13.6MT-34MT]	15.00 [381.0]	10.00 [254.0]	11.50 [292.1]	6.00 [152.4]	8.00 [203.2]	5.13 [130.3]	1.22 [31.0]	.75 [19.1]	8.43 [214.1]	1.00 [25.4]	.75 [19.1]	8.500 [215.9]
100 KLB [45.3MT]	18.00 [457.2]	12.00 [304.8]	14.00 [355.6]	9.00 [228.6]	10.00 [254.0]	7.50 [190.5]	1.38 [35.1]	.81 [20.6]	10.39 [264.0]	1.25 [31.8]	1.25 [31.8]	9.500 [241.3]
150 KLB [68MT]	18.00 [457.2]	12.00 [304.8]	14.00 [355.6]	9.00 [228.6]	10.00 [254.0]	7.50 [190.5]	1.38 [35.1]	.81 [20.6]	10.39 [264.0]	1.25 [31.8]	1.25 [31.8]	9.500 [241.3]
200 KLB-250 KLB [90.7MT-113.4MT]	26.00 [660.4]	12.00 [304.8]	20.00 [508.0]	6.00 [152.4]	12.00 [304.8]	9.00 [228.6]	1.88 [47.8]	1.06 [26.9]	15.73 [400.0]	2.00 [50.8]	2.00 [50.8]	13.000 [330.3]

# HI DSB01C Load Sensor



DIMENSIONS- INCHES & [mm]

CAPACITY LBS [KN]	MODEL NUMBER PLATED ALLOY STEEL	MODEL NUMBER STAINLESS STEEL	A	B	C	D	ØE	F	ØG	H	J
5 KLB [2.2MT]	DSB01C-AS-5KLB	DSB01C-SS-5KLB	8.12 [206.2]	6.88 [174.6]	5.24 [133.1]	.62 [15.7]	1.70 [43.2]	1.12 [28.4]	.66 [16.7]	.62 [15.7]	.50 [12.7]
10 KLB [4.5MT]	DSB01C-AS-10KLB	DSB01C-SS-10KLB									
20 KLB [9.1MT]	DSB01C-AS-20KLB	DSB01C-SS-20KLB	8.12 [206.2]	6.88 [174.6]	5.24 [133.1]	.84 [21.3]	1.95 [49.5]	1.12 [28.4]	.66 [16.7]	.62 [15.7]	.50 [12.7]
30 KLB [13.6MT]	DSB01C-AS-30KLB	DSB01C-SS-30KLB									
50 KLB [22.7MT]	DSB01C-AS-50KLB	DSB01C-SS-50KLB	10.25 [260.4]	8.50 [215.9]	6.50 [165.1]	1.00 [25.4]	3.00 [76.2]	2.34 [60.2]	1.06 [26.9]	.88 [22.4]	1.00 [25.4]
60 KLB [27.2MT]	DSB01C-AS-60KLB	DSB01C-SS-60KLB									
75 KLB [34MT]	DSB01C-AS-75KLB	DSB01C-SS-75KLB									
100 KLB [45.3MT]	DSB01C-AS-100KLB	DSB01C-SS-100KLB	11.25 [285.8]	9.50 [241.3]	7.49 [190.2]	1.22 [31.0]	3.50 [88.9]	2.50 [63.5]	1.06 [26.9]	.88 [22.4]	1.50 [38.1]
150 KLB [68MT]	DSB01C-AS-150KLB	DSB01C-SS-150KLB	11.25 [285.8]	9.50 [241.3]	7.49 [190.2]	1.22 [31.0]	3.90 [99.1]	2.80 [71.1]	1.06 [26.9]	.88 [22.4]	1.50 [38.1]
200 KLB [90.7MT]	DSB01C-AS-200KLB	DSB01C-SS-200KLB	16.10 [408.9]	13.00 [330.3]	10.00 [254.0]	1.25 [31.7]	5.38 [136.6]	4.60 [116.8]	1.56 [39.6]	1.55 [39.4]	2.00 [50.8]
250 KLB [113.4MT]	DSB01C-AS-250KLB	DSB01C-SS-250KLB									