

# SBA



NTEP APPROVED

## Tension / Compression Load Cell

- Available in 50 lb up to 20 klb versions
- Nickel plated tool steel
- Environmentally sealed
- NTEP / OIML approved



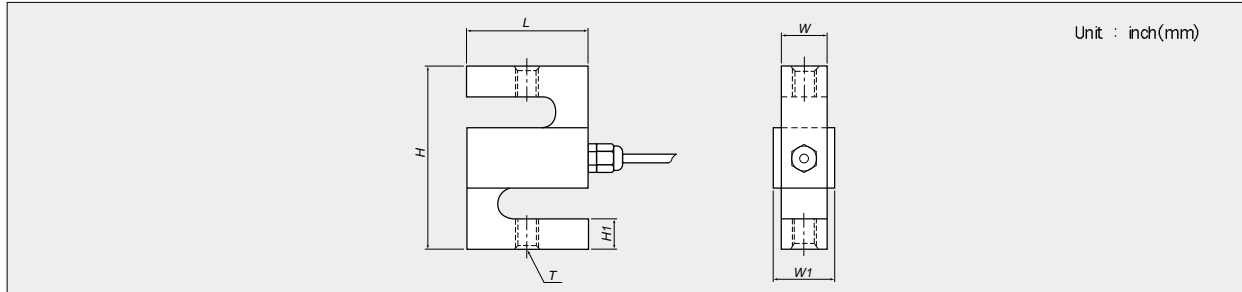
### **APPLICATION**

- Tank scales
- Hopper scales
- Process control
- Mechanical scale conversions

# CAS

# SBA S-Bending Load Cell

## DIMENSIONS



CAPACITY	H	H 1	L	T	W	W 1
50 lb, 75 lb, 100 lb, 150 lb, 200 lb	2.50(63.5)	0.38(9.75)	2.00(50.8)	1/4 - 28UNF	0.50(12.7)	0.60(15.3)
250 lb, 300 lb	3.00(76.2)	0.47(12)	2.00(50.8)	3/8 - 24UNF	0.50(12.7)	0.80(20)
500 lb, 750 lb, 1 klb, 1.5 klb, 2 klb	3.00(76.2)	0.50(12.6)	2.00(50.8)	1/2 - 20UNF	0.75(19)	1.06(27)
2.5 klb, 3 klb	3.00(76.2)	0.50(12.6)	2.00(50.8)	1/2 - 20UNF	1.00(25.4)	1.30(33)
5 klb	4.25(108)	0.75(19)	3.03(77)	3/4 - 16UNF	1.00(25.4)	1.30(33)
7.5 klb, 10 klb	4.75(120.65)	0.87(22)	3.50(88.9)	3/4 - 16UNF	1.00(25.4)	1.30(33)
15 klb	6.50(165.1)	1.18(30)	4.00(101.8)	1 - 14UNF	1.25(31.75)	1.55(39.38)
20 klb	7.00(177.8)	1.26(32)	5.00(127)	1 1/4 - 12UNF	2.00(50.8)	2.30(58.4)

## SPECIFICATIONS

Rated Load (R.L.)	50 lb, 75 lb, 100 lb, 150 lb, 200 lb, 250 lb, 300 lb, 500 lb, 750 lb, 1 klb, 1.5 klb, 2 klb, 2.5 klb, 3 klb, 5 klb, 7.5 klb, 10 klb, 15 klb, 20 klb
Rated Output (R.O.)	3mV/V $\pm$ 10%
Accuracy Class	III 5,000S / III L10,000S
Combined Error	< 0.02% R.O.
Repeatability	< 0.01% R.O.
Creep (for 30min) / -10 °C to +40 °C	< 0.017% R.O.
Zero Return	< 0.017% R.O.
Temperature Effect on Zero Value / 10 °C	< 0.014% R.O.
Temperature Effect on Output Value / 10 °C	< 0.011% R.O.
Recommended Excitation	DC 10V
Maximum Excitation	DC 15V
Zero Balance	$\pm$ 1% R.O.
Input Resistance	400 $\pm$ 25 $\Omega$
Output Resistance	350 $\pm$ 3.5 $\Omega$
Insulation Resistance	> 2000 M $\Omega$
Cable	20 ft / 6 m 4 conductor with shield
Compensated Temperature Range	-10 °C to +40 °C
Safe Operating Range	-30 °C to +80 °C
Safe Overload	150% Rated Capacity
Protection Class	IP 65

## ORDERING INFORMATION

CAP.	MODEL NO.	CAP.	MODEL NO.
50 lb	SBA - 50 LB	2 klb	SBA - 2 K
75 lb	SBA - 75 LB	2.5 klb	SBA - 2.5 K
100 lb	SBA - 100 LB	3 klb	SBA - 3 K
150 lb	SBA - 150 LB	5 klb	SBA - 5 K
200 lb	SBA - 200 LB	7.5 klb	SBA - 7.5 K
250 lb	SBA - 250 LB	10 klb	SBA - 10 K
300 lb	SBA - 300 LB	15 klb	SBA - 15 K
500 lb	SBA - 500 LB	20 klb	SBA - 20 K
750 lb	SBA - 750 LB		
1 klb	SBA - 1 K		
1.5 klb	SBA - 1.5 K		

## CABLE COLOR CODE

Red	+ Excitation
Black	- Excitation
Green	+ Signal
White	- Signal
Clear	Shield



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Specifications are subject to change for improvement without prior notice. 1999. 7