

MODEL 60001

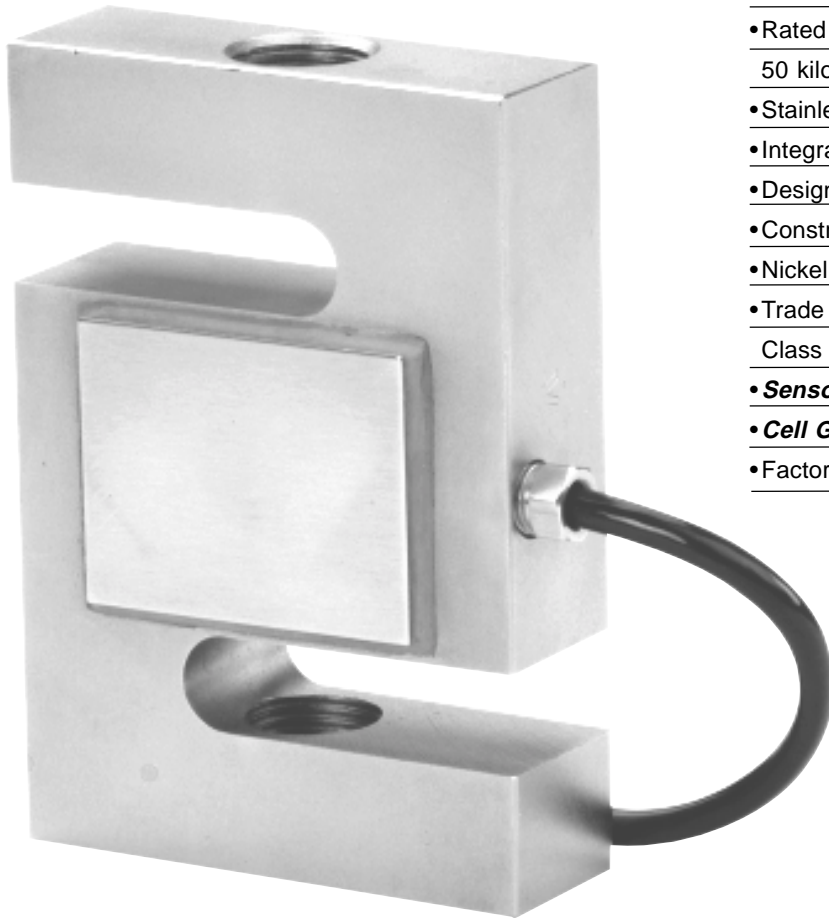
S-BEAM LOAD CELL

APPLICATIONS

- Tank, bin and hopper weighing
- Level and inventory monitoring
- Truck scale conversions
- Tension and compression measurements

FEATURES

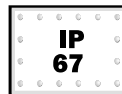
- Rated capacities of 25 to 20,000 pounds
50 kilograms to 5 metric tons
- Stainless steel version is model 60050
- Integral loading bracket
- Designed for single or multiple load cell applications
- Constructed of high quality alloy tool steel
- Nickel plated for outstanding corrosion resistance
- Trade certified for NTEP Class III:5,000 Divisions and
Class III:10,000 Divisions available
- **Sensorgage™** sealed to IP67 standards
- **Cell Guard™** Two Year Warranty
- Factory Mutual System Approved for Classes I, II, III;
Divisions 1 and 2; Groups A through G.
Also, **Non-Incendive** ratings (No Barriers!).
- ISO 9001 Certified manufacturing facilities



ISO
9001



Factory
Mutual
System
Approved



60063

Model 60001 Performance Specifications

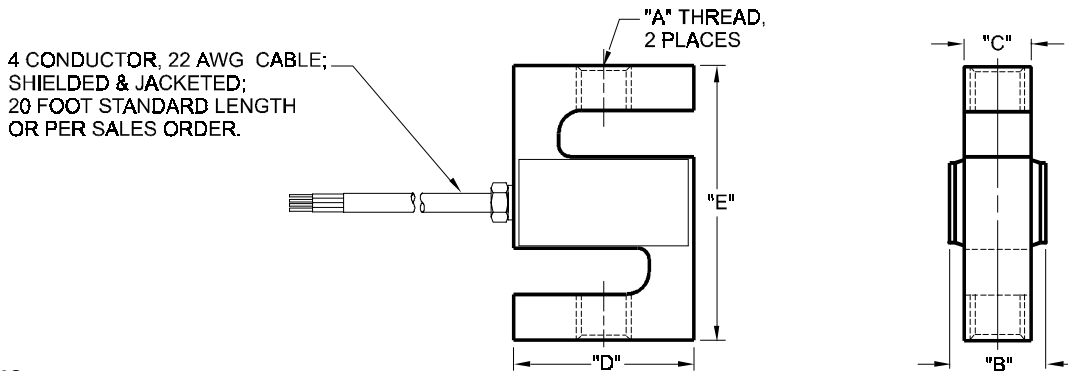
Rated Capacities (lbs): 25, 50, 75, 100, 150, 200, 250, 300, 500, 750, 1K, 1.5K, 2K, 2.5K, 3K, 5K, 10K, 15K, 20K
 (kgs/metric tons): 50kgs, 100kgs, 250kgs, 1t, 2.5t, 5t

Full Scale Output (FSO): **lbs**
 25 - 3K: 3.0 mV/V + 25% / - 10%
 5K - 20K: 3.0 mV/V ± 0.25%

kgs/metric tons
 50kg - 1t: 3.0 mV/V + 25% / - 10%
 2.5t - 5t: 3.0 mV/V ± 0.25%

Accuracy Class:	Standard	NTEP III	NTEP IIIIL	OIML R60 ⁽¹⁾
Max. No. Verification Intervals	--	5,000 Multiple	10,000 Multiple	3,000
Combined Error % FSO	≤ .03	--	--	--
Non-Linearity % FSO	≤ .03	--	--	--
Hysteresis % FSO	≤ .02	--	--	--
Creep Error % FSO	≤ .03 in 20 minutes	--	--	--
Temperature Effect on:				
• Zero % FSO/°F	≤ 0.0015	--	--	--
• Output % of Load/°F	≤ 0.0008	--	--	--
Non-Repeatability % FSO			≤ .01	
Zero Balance % FSO			≤ 1.0	
Insulation Resistance		> 1000 Mohms at 50 VDC		
Compensated Temperature Range		14° to 104°F / -10° to 40°C		
Operating Temperature Range		0° to 150°F / -18° to 65°C		
Storage Temperature Range		-60° to 185°F / -50° to 85°C		
Input Resistance		343-450 Ohms		
Output Resistance		349-355 Ohms		
Recommended Excitation Voltage		10 Volts DC		
Maximum Excitation Voltage		15 Volts DC		
Sideload Rejection Ratio		500:1		
Safe Sideload		30% of Rated Capacity		
Safe Overload		150% of Rated Capacity		
Ultimate Overload		300% of Rated Capacity		
Sealing		Meets IP67 Standards		
Material		Alloy Tool Steel		
Finish		Electroless Nickel Plated		

Note: ⁽¹⁾OIML 100 - 5K (500kg - 2.5t) capacities only.



WIRING

FUNCTION	COLOR
+ Excitation	Red
- Excitation	Black
+ Output	Green
- Output	White

CAPACITY	A	B	C	D	E	Deflection	Weight
25 - 200	1/4-28 UNF-2B	0.65	0.50	2.00	2.50	0.015 - 0.010	4.0
250 - 300	3/8-24 UNF-2B	0.75	0.50	2.00	3.00	0.010	4.0
500 - 2K	1/2-20 UNF-2B	1.00	0.75	2.00	3.00	0.010 - 0.012	6.5
2.5K - 4K	1/2-20 UNF-2B	1.25	1.00	2.00	3.00	0.012	6.5
5K	3/4-16 UNF-2B	1.25	1.00	3.00	4.25	0.017	6.5
10K	3/4-16 UNF-2B	1.25	1.00	3.50	4.75	0.025	6.5
15K	1-14 UNF-2B	1.50	1.25	4.00	5.50	0.025	9.0
20K	1 1/4-12 UNF-2B	2.25	2.00	5.00	7.00	0.025	9.0
(50 - 100kgs)	M8.0 x 1.25-6H	(16.5)	(12.7)	(50.8)	(63.5)	(0.03 - 0.004)	(1.8)
(250kgs - 1t)	M12 x 1.75-6H	(25.4)	(19.1)	(50.8)	(76.0)	(0.004)	(1.8)
(2.5t)	M20 x 1.5-6H	(31.8)	(25.4)	(76.2)	(108.0)	(0.008)	(2.9)
(5t)	M20 x 1.5-6H	(31.8)	(25.4)	(88.9)	(120.7)	(0.011)	(2.9)

Dimensions are in inches (mm). Capacities are in pounds (kg/t). Deflection is ± 10%. Specifications are subject to change. Certified drawings are available.