

S35

Load Cell



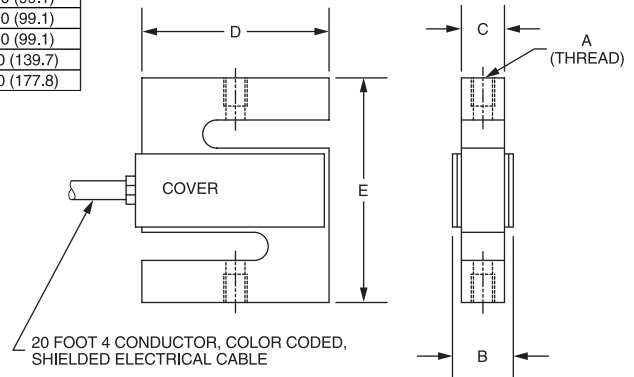
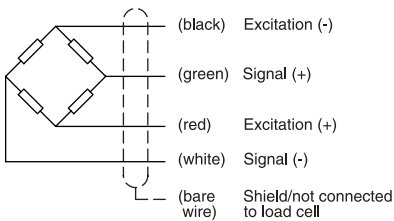
Special Features

- Capacity range from 50 to 20,000 Lbs.
- Stainless steel construction
- 3 mV/V output, 350 ohm bridge
- Environmentally sealed to IP65

Dimensions: inch (mm)

CAPACITY	A	B	C	D	E
50 LB	1/4-28 UNF 2B	0.65 (16.5)	0.46 (11.7)	2.00 (50.8)	2.40 (61.0)
100 LB	1/4-28 UNF 2B	0.65 (16.5)	0.46 (11.7)	2.00 (50.8)	2.40 (61.0)
200 LB	1/4-28 UNF 2B	0.65 (16.5)	0.46 (11.7)	2.00 (50.8)	2.40 (61.0)
250 LB	1/4-28 UNF 2B	0.65 (16.5)	0.46 (11.7)	2.00 (50.8)	2.40 (61.0)
300 LB	1/4-28 UNF 2B	0.65 (16.5)	0.46 (11.7)	2.00 (50.8)	2.40 (61.0)
500 LB	1/2-20 UNF 2B	0.90 (22.9)	0.71 (18.0)	2.00 (50.8)	2.40 (61.0)
750 LB	1/2-20 UNF 2B	0.90 (22.9)	0.71 (18.0)	2.00 (50.8)	2.40 (61.0)
1000 LB	1/2-20 UNF 2B	0.90 (22.9)	0.71 (18.0)	2.00 (50.8)	2.40 (61.0)
1500 LB	1/2-20 UNF 2B	1.15 (29.2)	0.96 (24.3)	2.00 (50.8)	2.40 (61.0)
2000 LB	1/2-20 UNF 2B	1.15 (29.2)	0.96 (24.3)	2.00 (50.8)	2.40 (61.0)
2500 LB	1/2-20 UNF 2B	1.15 (29.2)	0.96 (24.3)	2.00 (50.8)	2.40 (61.0)
3000 LB	1/2-20 UNF 2B	1.15 (29.2)	0.96 (24.3)	3.00 (76.2)	3.90 (99.1)
5000 LB	3/4-16 UNF 2B	1.15 (29.2)	0.96 (24.3)	3.00 (76.2)	3.90 (99.1)
10000 LB	3/4-16 UNF 2B	1.15 (29.2)	0.96 (24.3)	3.00 (76.2)	3.90 (99.1)
15000 LB	1-14 UNS 2B	1.69 (42.9)	1.50 (38.1)	4.00 (101.6)	5.50 (139.7)
20000 LB	1 1/4-12 UNF 2B	2.19 (55.6)	2.00 (50.8)	5.00 (127.0)	7.00 (177.8)

WIRING CODE:



Specifications

Model Type	S35																
Accuracy class	NTEP CLASS III																
Maximum number of load cell intervals (n_{LC})	3000 DIVISIONS SINGLE																
Maximum capacity (E_{max})	lb	50	100	200	250	300	500	750	1000	1500	2000	2500	3000	5000	10,000	15,000	20,000
Minimum load cell verification interval (V_{min})	lb	0.004	0.008	0.016	0.020	0.024	0.040	0.060	0.080	0.120	0.160	0.200	0.240	0.400	0.800	1.200	1.600
Sensitivity (C_n)	mV/V	3 ± 0.3															
Zero balance		0 ± 0.03															
Temperature effect on zero balance (TK_0)	% of C_n / 10°C	± 0.018															
Temperature effect on sensitivity (TK_C) ¹⁾		± 0.021															
Temperature range +20...+40°C [+70...+105°F] -10...+20°C [+15...+70°F]	± 0.014																
Hysteresis error (d_{hy}) ¹⁾	% of C_n	± 0.030															
Non-linearity (d_{lin}) ¹⁾		± 0.030															
Creep (d_{cr}) over 30 min.		0.025															
Input resistance (R_{LC})	Ω	>350															
Output resistance (R_O)	Ω	350 ± 3															
Reference excitation voltage (U_{ref})	V	5															
Maximum excitation voltage (U_{max})	V	15															
Insulation resistance (R_{is})	GΩ	10															
Nominal temperature range (B_T)	°C [°F]	-10...40 [14...104]															
Service temperature range (B_{tu})		-15...70 [5...158]															
Storage temperature range (B_{tl})		-15...85 [5...185]															
Safe load limit (E_L)	% of E_{max}	120															
Ultimate load limit (E_d)		200															
Lateral load limit (E_{lq})		100															
Permissible dynamic load (F_{srel}) (vibration amplitude according to DIN 50100)		70															
Deflection at E_{max} (S_{nom}), approx.		in	<0.015														
Weight, approx.	lb	1				2				4				11		22	
Protection class to EN60529 (IEC529)		IP65															
Material: Measuring element		Stainless Steel															
Cable Fitting Gland		Stainless Steel															
Cable Sheath		PVC															
Coating/Plating		-															

¹⁾ The sum of data for Non-linearity, Hysteresis and Temperature effect on sensitivity meets the requirements of NTEP HB 44



Due to continuous improvement, dimensions and specifications are subject to change without notice. All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever. Please request certified drawings before designing mountings or fixtures.

HBM, Inc.

19 Bartlett Street
Marlborough, MA 01752
Tel. 800-578-4260 • 508-624-4500
Fax 508-485-7480
E-mail: info@usa.hbm.com
Internet: www.hbm.com



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