

B8D



test certificate no. TC8010 Revision 0 and D09-05.19
C of C no R60/2000-NL1-11.28 and R60/2000-CN1-06.05



Certificate no. 12-022

- Stainless steel IP67 shear beam load cell (250kg is bending beam load cells)
- Suitable for floor scales, automobile test facilities, hopper scales and other weighing devices.
- Current calibrated (sc-option)

Available models

xxkg	C3/C5/A5S/A5M/B10M	B8D-xx-xxkg-6B
txt	C3/C5/A5S/A5M/B10M	B8D-xx-xtt-6B
xxlb	A5S/A5M/B10M	B8D-xx-xx-6YB
xxklb	A5S/A5M/B10M	B8D-xx-xxK-6YB
250lb	C3	B8D-C3-250-6YB
15klb	C3	B8D-C3-15K-6YB
20klb	C3	B8D-C3-20K-6YB

200kg-500kg approved by OIML C5.
500kg-5.0t approved by OIML C3.
200KG-5.0t (500lb-10Klb) approved by NTEP A5S/A5M/B10M.

Specification

Maximum capacity (Emax)	t	0.5/1/2/5				
	klb	0.25/0.5/0.75/1/1.5/2/2.5/2.5KLE/3/4/5/5KSE/7.5/10/15/20				
Accuracy class		C3	C5	A5S	B10M	A5M
Approvals		OIML R60 C3	OIML R60 C5			
Maximum number of load cell intervals (nLC)		3000	5000	III 5000 Single	IIIL10000Multiple	IIIL5000Multiple
Ratio of minimum LC verification interval Y = Emax / vmin		10000	18000	15000	10000	15000
Combined error	%FS	± 0.02	± 0.01	± 0.018	± 0.050	± 0.026
Creep	%FS/30min	± 0.016	± 0.012	± 0.012	± 0.040	± 0.017
Temperature effect on sensitivity	%FS/10°C	± 0.011	± 0.007	± 0.009	± 0.040	± 0.013
Temperature effect on zero	%FS/10°C	± 0.015	± 0.014	± 0.01	± 0.020	± 0.014
Output sensitivity (= FS)	mV/V	3.0 ± 0.008				
Input resistance	Ω	350 ± 3.5				
Output resistance	Ω	350 ± 3.5				
Insulation resistance	MΩ	≥ 5000(50VDC)				
Zero balance	%FS	± 1.0				
Compensated temperature	°C	-10 ~ +40				
Operating temperature	°C	-35 ~ +70				
Excitation, recommended voltage	V	5 ~ 12(DC)				
Excitation maximum	V	18(DC)				
Safe overload	%FS	150				
Ultimate overload	%FS	300				
Recommended torque on fixation	N.m	M12: 75 M20:450				
Ingress protection (according to EN 60529)		IP67				
ATEX classification (optional)	Operating temperature	°C		-20 ~ +40		
	II1G Ex ia II1C T4	II1D Ex iaD20 T73°C		II3G Ex nL II C T4		

Dimensions in mm

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Technical drawing of the B8D load cell showing two views. The top view shows dimensions L, L4, L, H, M, and ØD. The bottom view shows dimensions 2-Ød, L1, L2, L3, and W.

Option W6 version
("T" end loading hole) 250kg-2t

Cross-section A-A of the W6 version load cell showing dimensions: A 12.6, Ø4, Ø2, 15.8, Ø18, 4.8, and 14.5.

Option W6 version
("T" end loading hole) 5t

Cross-section A-A of the W6 version load cell for 5t showing dimensions: A 19, Ø4, Ø2, 18.8, Ø25, 4.8, and 17.5.

Capacity	Dimension	L	L1	L2	L3	d	H	W	D	H1	M
0.25klb, 0.5klb, 1.5klb, 0.75klb, 1klb, 2klb		130 (5.12)	15.7 (0.62)	25.4 (1.0)	76.2 (3.0)	13.46 (0.53)	28.4 (1.12)	30.7 (1.20)	13.4 (0.53)	14.22 (0.56)	M12-6H 1/2-20UNF-2B
0.5t, 1t, 2t, 2.5klb, 3klb, 4klb, 5klb, 5KSE		130 (5.12)	15.7 (0.62)	25.4 (1.0)	76.2 (3.0)	13.46 (0.53)	31.32 (1.23)	31.32 (1.23)	13.4 (0.53)	15.75 (0.62)	M12-6H 1/2-20UNF-2B
3t, 5t, 2.5kLE, 5klb, 7.5klb, 10klb, 15klb		171 (6.73)	19 (0.75)	38.1 (1.5)	95.2 (3.75)	20.65 (0.81)	36.8 (1.45)	36.8 (1.45)	20.65 (0.81)	19.05 (0.75)	M20 x 2.5-6H 3/4-16UNF-2B
20klb		222.25 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	26.9 (1.06)	49.5 (1.95)	49.5 (1.95)	27.56 (1.08)	24.75 (0.97)	M24 x 2-6H 1-12UNF-2B

Wiring

		Input(+) Red
		Output(-) White
		Input(-) Black
		Output(+) Green
		Transparent: Shield

- Shielded, 4 conductor cable
- Cable diameter: Ø5mm.
- Standard cable length: 6m
- Shield in not connected to the element.