B8D



- 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)

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

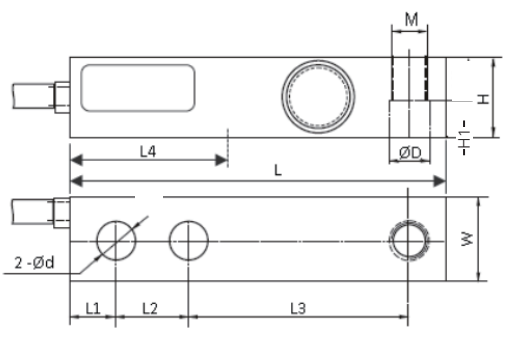
Available models

xxkg	C3/C5/A5S/A5M/B10M	B8D–xx–xxkg–6B
xxt	C3/C5/A5S/A5M/B10M	B8D–xx–xxt–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.		

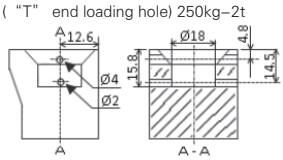
Specification

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℃	± 0.011	± 0.007	± 0.009	± 0.040	± 0.013
Temperature effect on zero	%FS/10℃	± 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	℃	–10 ~ +40				
Operating temperature	℃	–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)		II1G Ex ia II1C T4	II1D Ex iaD20 T73℃		II3G Ex nL II C T4	

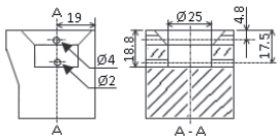
Dimensions in mm



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

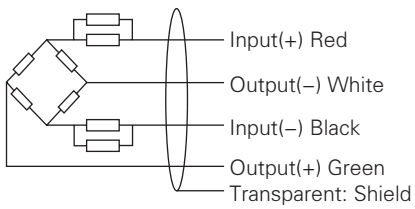


Option W6 version
("T" end loading hole) 5t



Capacity \ Dimension	L	L1	L2	L3	d	H	W	D	H1	M
0.25klb,0.5klb,15.klb 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,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 19.81	36.8 (1.45)	36.8 (1.45)	20.65 19.81	19.05 (0.75)	M20×2.5–6H 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)	M24×2–6H 1–12UNF–2B

Wiring



- Shielded, 4 conductor cable
- Cable diameter: Φ5mm.
- Standard cable length: 6m
- Shield in not connected to the element.

Accessories

BY-8-104

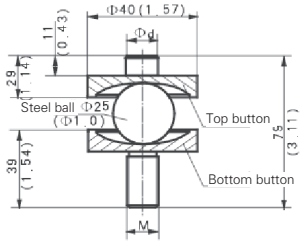
Stainless steel mounting kits, assembled with: BM8D, B8D.



Capacity	Part number
0.5t–2t	BY–8–104–0.5/2t
2.5t–5t	BY–8–104–2.5/5t
250lb–5KSE	BY–8–104–250lb/5KSE
5klb–10klb	BY–8–104–5/10k

Short description

Easy installation, self–centralization with steel ball, good self–aligning ability.



Capacity \ Dimension	d	M
0.5t–2t 250lb–5KSE	12 (0.47)	M12 × 1.75 1/2–20UNF
2.5t–5t 5klb–10klb	20 (0.79)	M20 × 2.5 3/4–16UNF

BJ-8-202

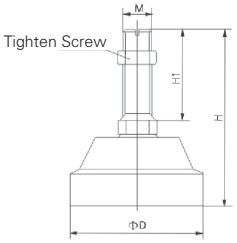
Stainless steel mounting kits, assembled with: BM8D, B8D.



Capacity	Part number
0.5t–2t	BJ–8–202–0.5/2t
2.5t–5t	BJ–8–202–2.5/5t
250lb–5KSE	BJ–8–202–250lb/5KSE
5klb–10klb	BJ–8–202–5/10K

Short description

Easy installation, height adjustable, anti–corrosion, self–centralization with steel ball, good anti–side loading ability.



Capacity \ Dimension	ΦD	H	H1	M
0.5t–2t 250lb–5KSE	60 (2.36)	92 (3.62)	50 (1.97)	M12 × 1.75 1/2–20UNF
2.5t–5t 5K–10klb	80 (3.15)	105 (4.13)	50 (1.97)	M20 × 2.5 3/4–16UNF

BJ-8-205

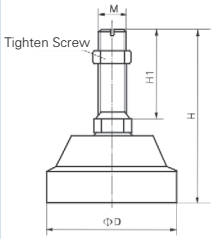
Stainless steel mounting kits, assembled with: BM8D, B8D.



Capacity	Part number
0.5t–2t	BJ–8–205–0.5/2t
250lb–5KSE	BJ–8–205–250lb/5KSE

Short description

Easy installation, height adjustable, anti–corrosion, self–centralization with steel ball, good anti–side loading ability.



Capacity \ Dimension	D	H	H1	M
0.5t–2t 250lb–5KSE	80 (3.15)	105 (4.13)	50 (1.97)	M12 × 1.75 1/2–20UNF

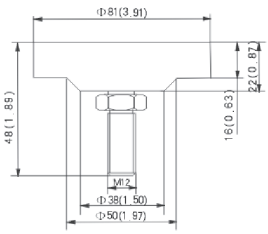
BJ-8-215

Stainless steel mounting kits, assembled with: BM8D, B8D.



Capacity	Part number
0.5t–2t	BJ–8–215–0.5/2t

Short description Easy installation, height adjustable, self–centralization, good anti–side loading ability.



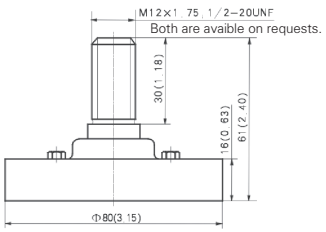
BJ-8-219

Stainless steel mounting kits, assembled with: BM8D, B8D.



Capacity	Part number
0.5t–2t	BJ–8–219–0.5/2t
250lb–5KSE	BJ–8–219–250lb/5KSE

Short description Easy installation, self–centralization, good anti–side loading ability.



BJ-8-220

Stainless steel mounting kits, assembled with: BM8D, B8D.



Capacity	Part number
0.5t–2t	BJ–8–220–0.5/2t
250lb–5KSE	BJ–8–220–250lb/5KSE

Short description Easy installation, self–centralization, good anti–side loading ability.

