BM8H/H8H

- Stainless steel IP68 shear beam load cell
- Hermetically sealed
- Suitable for hopper, platform and pallet scales
- High accuracy
- Current calibrated (sc–option)

Available models

xxkg	C3	H8H–C3–xxkg–xB
xxt	C3	H8H–C3–xxt–xB
500lb	C3	H8H–C3–500–xYB
xxklb	C3	H8H–C3–xxK–xYB
xxkg	C3/A5M/B10S/B10M	BM8H–xx–xxkg–xB
xxt	C3/A5M/B10S/B10M	BM8H–xx–xxt–xB
xxlb	A5M/B10S/B10M	BM8H–xx–xx–xB
xxKlb	A5M/B10S/B10M	BM8H–xx–xxK–xB
xxkg	C3/A5M/B10S/B10M	BM8H–xx–xxkg–xB–A1
xxt	C3/A5M/B10S/B10M	BM8H–xx–xxt–xB–A1
xxlb	A5M/B10S/B10M	BM8H–xx–xx–xB–A1
xxKlb	A5M/B10S/B10M	BM8H–xx–xxK–xB–A1

BM8H 500kg–5t approved by OIML C3.
1klb–10klb (500kg–5t) approved by NTEP A5M/B10S/B10M.
"A1" refers to currency output, resistance 1000Ω.



test certificate no. TC8104 Revision 2
C of C no R60/2000–NL1–13.20 Revision 1

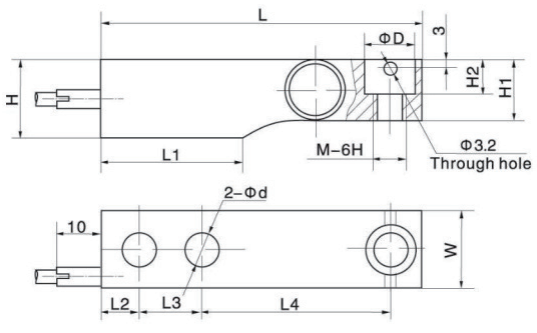
Certificate no. 10–056A2

Specification

Maximum capacity (E_{max})	t	0.25/0.5/1/2/2.5/3/5				
	klb	0.5/1/2.5/4/5/10				
Accuracy class		B10S	C3	C4	A5M	B10M
Approvals			OIML R60 C3			
Maximum number of load cell intervals (nLC)	nmax	III10000 Single	3000	4000	III5000	IIIL10000 Multiple
Ratio of minimum LC verification interval Y = E_{max} / vmin	vmin	Emax/10000	Emax/10000	Emax/14000	Emax/15000	Emax/10000
Combined error	%FS	⩽ ±0.035	⩽ ±0.020	⩽ ±0.018	⩽ ±0.026	⩽ ±0.050
Creep	%FS/30min	⩽ ±0.03	⩽ ±0.016	⩽ ±0.012	⩽ ±0.017	⩽ ±0.040
Temperature effect on sensitivity	%FS/10℃	⩽ ±0.03	⩽ ±0.011	⩽ ±0.009	⩽ ±0.013	⩽ ±0.040
Temperature effect on zero	%FS/10℃	⩽ ±0.03	⩽ ±0.015	⩽ ±0.010	⩽ ±0.014	⩽ ±0.020
Output sensitivity (= FS)	mV/V	2.0 ± 0.002/2.0 ± 0.004(H8H)				
Input resistance	Ω	1000 ± 10		350 ± 3.5		
Output resistance	Ω	1000 ± 10		351 ± 2.0		
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				
ATEX classification (optional)		II1G Ex ia II1C T4		II1D Ex iaD20 T73℃		II3G Ex nL II C T4

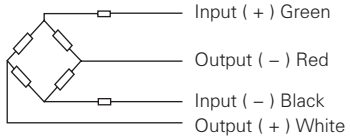
Note: accuracy for H8H is at C3, no OIML, NTEP, PTB, ATEXM, FM, Ex NEPSI approvals. Capacity of 2.5t/3t is not available, and input resistance is 350 ± 3.5 while outputresistance is 351 ± 2.0.

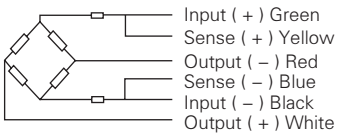
Dimensions in mm



Capacity / Dimension	250kg (500lb)	500kg (1klb)	1.0t(2klb) (2.5klb)	1.5t, 2.0t (4klb,5klb)	2.5t, 3t	5.0t (10klb)
L	130.0(5.12)	130.0(5.12)	130.0(5.12)	130.0(5.12)	172.0 (6.77)	172.0 (6.77)
L1	57 (2.24)	57.1 (2.25)	57.1 (2.25)	57.1 (2.25)	76.2 (3.0)	76.2 (3.0)
L2	15.5(0.62)	15.5 (0.62)	15.5 (0.62)	15.5 (0.62)	19.1 (0.75)	19.1 (0.75)
L3	25.4 (1.0)	25.4 (1.0)	25.4 (1.0)	25.4 (1.0)	38.1 (1.5)	38.1 (1.5)
L4	76.2 (3.0)	76.2 (3.0)	76.2 (3.0)	76.2 (3.0)	95.3 (3.75)	95.3 (3.75)
H	31.8(1.24)	31.8 (1.24)	31.8 (1.24)	35.9 (1.41)	44 (1.72)	44 (1.72)
H1	25.5 (1.0)	26.0 (1.02)	27.95(1.10)	31.95(1.26)	36 (1.42)	40 (1.57)
H2	14.2(0.55)	14.2 (0.55)	14.2 (0.55)	14.2 (0.55)	20 (0.78)	20 (0.78)
W	31.8(1.24)	31.8 (1.24)	31.8 (1.24)	31.8 (1.24)	38 (1.48)	38 (1.48)
D	20.5(0.81)	20.5 (0.81)	20.5 (0.81)	20.5 (0.81)	30.2 (1.19)	30.2 (1.19)
d	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	20.5 (0.81)	20.5 (0.81)
M	M12 1/2–20UNF	M12 1/2–20UNF	M12 1/2–20UNF	M12 1/2–20UNF	M20	M20 3/4–20UNF

Wiring





- Shielded, 6 conductor cable and 4 conductor cable for all capacities.
- Cable diameter: Φ5mm.
- Standard cable length for 500kg – 1t: 3m and for 2t – 5t: 6m.
- Shield not connected to element.

Accessories

BJ-8-206

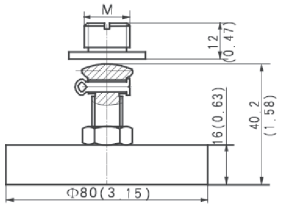
Stainless steel foot, assembled with: BM8H, H8H.



Capacity	Part number
0.25–2t	BJ–8–206–0.25/2t
500lb–4klb	BJ–8–206–500lb/4K

Short description

Easy installation, self–centralization, anti–side loading and height adjustable.



Capacity	M
0.25t–2t	M12 × 1.75
500lb–4klb	1/2–20UNF

BJ-8-207

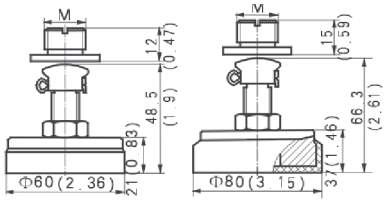
Stainless steel foot, assembled with: BM8H, H8H.



Capacity	Part number
0.25t–2t	BJ–8–207–0.25/2t
5t	BJ–8–207–5t
500lb–4klb	BJ–8–207–500lb/4K
10klb	BJ–8–207–10K

Short description

Easy installation, self–centralization, anti–side loading and height adjustable.



Capacity	M
0.25t–2t	M12 × 1.75
5t	M20 × 2.5
500lb–4klb	1/2–20UNF
10klb	3/4–16UNF

HJ-8-217

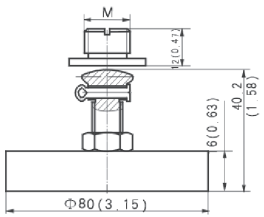
Alloy steel foot with rubber, assembled with: BM8H, H8H.



Capacity	Part number
0.25–2t	HJ–8–217–0.25/2t
500lb–4klb	HJ–8–217–500lb/4K

Short description

Easy installation, self–centralization, anti–side loading and height adjustable.



Capacity	M
0.25–2t	M12 × 1.75
500lb–4klb	1/2–20UNF

HJ-8-218

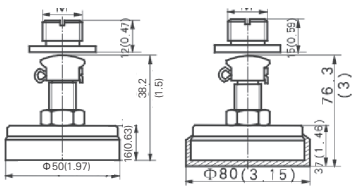
Alloy steel foot with rubber, assembled with: BM8H, H8H.



Capacity	Part number
0.25t–2t	HJ–8–218–0.25/2t
5t	HJ–8–218–5t
500lb–4klb	HJ–8–218–500lb/4K
10klb	HJ–8–218–10K

Short description

Easy installation, self–centralization, anti–side loading and height adjustable.



Capacity	M
250kg–2t	M12 × 1.75
5t	M20 × 2.5
500lb–4klb	1/2–20UNF
10klb	3/4–16UNF

BM-8-406

Stainless steel foot, assembled with: BM8H, H8H.



Capacity	Part number
0.25–2t	BM–8–406–0.25/2t
5t	BM–8–406–5t

Short description

- Compact construction, easy installation.
- Excellent anti–reversal ability.
- Anti–over loading ability.
- Good self–aligning ability.

Optional table		
Part number	Designation	Graphic
HM–8–401–1	Fixed	◯
HM–8–401–2	Half–floating	⟷
HM–8–401–3	Floating	✣

Specifications			
Capacity	t	0.25–2	5
Max. horizontal displacement	%FS	150	150
Max. anti–rotation	mm	±2.5	±3.5
Material	KN	3	10

Capacity / Dimension	0.25–2t 0.5–5klb	5t 10klb
L	177.8(7.0)	235(9.25)
L1	114.3(4.5)	152.4(6.0)
L2	152.4(6.0)	184.2(7.25)
L3	88.9(3.5)	101.6(4.0)
H	104.8(4.13)	136.5(5.37)
H1	25.4(1.0)	32(1.26)
H2	19(0.75)	25.4(1.0)
W	114.3(4.5)	152.4(6.0)
W1	88.9(3.5)	101.6(4.0)
D	11(0.43)	17.5(0.69)

