B9C/H9C

- Stainless steel IP67 dual shear beam load cell
- High accuracy
- Suitable for truck scales and other heavy weighing devices
- Sealed construction



Certificate no. 07–018A1

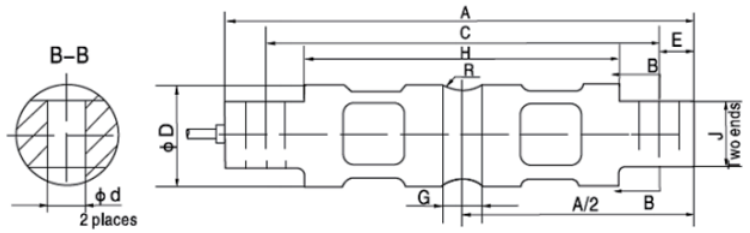
Available models

xxklb	A5M/B10M	B9C–xx–xxK–9B
NTEP A5S/B10M Certificate (Klb–250Klb)		
xxklb	C3/C4/A5M/B10M	H9C–xx–xxK–9B
5klb–250klb approved by PTB C3. 5klb–20klb approved by PTB C4. 5klb–250klb approved by NTEP A5M/B10M.		

Specification

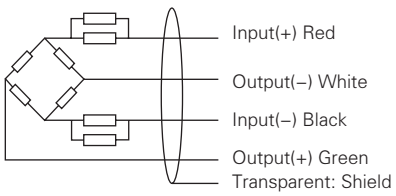
Maximum capacity (E_{max})	klb	5/10/15/20/30/40/50/60/75/90/100/150/200/250			
Accuracy class		C3	C4	A5M	B10M
Maximum number of load cell intervals (nLC)		3000	4000	III5000 Multiple	IIIL10000 Multiple
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		10000	14000	15000	10000
Combined error	%FS	± 0.020	± 0.018	± 0.026	± 0.050
Creep	%FS/30min	± 0.016	± 0.012	± 0.017	± 0.040
Temperature effect on sensitivity	%FS/10℃	± 0.011	± 0.009	± 0.013	± 0.040
Temperature effect on zero	%FS/10℃	± 0.015	± 0.010	± 0.014	± 0.020
Output sensitivity (= FS)	mV/V	3.0 ± 0.008			
Input resistance	Ω	700 ± 7			
Output resistance	Ω	703 ± 4			
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 IIC T4	II1D Ex iaD20 T73℃		II3G Ex nL II C T4

Dimensions in mm



Dimension Capacity	A	C	H	G	ΦD	J	Φd	R	E
5Klb, 10Klb	206.2 (8.12)	174.6 (6.88)	133.1 (5.24)	15.7 (0.62)	43.2 (1.7)	28.4 (1.12)	16.7 (0.66)	R12.7 (0.5)	15.7 (0.62)
15Klb, 20Klb	206.2 (8.12)	174.6 (6.88)	133.1 (5.24)	21.3 (0.84)	49.5 (1.95)	28.4 (1.12)	16.7 (0.66)	R12.7 (0.5)	15.7 (0.62)
30Klb, 75Klb	260.4 (10.25)	215.9 (8.5)	165.1 (6.5)	25.4 (1.0)	76.2 (3.0)	60.2 (2.37)	26.9 (1.06)	R25.4 (1.0)	22.4 (0.88)
90Klb, 100Klb	285.8 (11.25)	241.3 (9.5)	190.2 (7.49)	31.0 (1.22)	88.9 (3.5)	63.5 (2.5)	26.9 (1.06)	R38.1 (1.5)	22.4 (0.88)
150Klb	285.8 (11.25)	241.3 (9.5)	190.2 (7.49)	31.0 (1.22)	99.1 (3.9)	71.1 (2.80	26.9 (1.06)	R38.1 (1.5)	22.4 (0.88)
200Klb,250Klb	408.9 (16.1)	330.2 (13.0)	254.0 (10.0)	31.7 (1.25)	136.6 (5.38)	116.8 (4.6)	39.6 (1.56)	R50.8 (2.0)	39.4 (1.55)

Wiring



- Shielded, 4 conductor cable.
- Cable diameter for 5k – 20k: Φ5mm and for 30k – 250k: Φ8mm.
- Standard cable length: 9m.
- Shield not connected to element.

Accessories

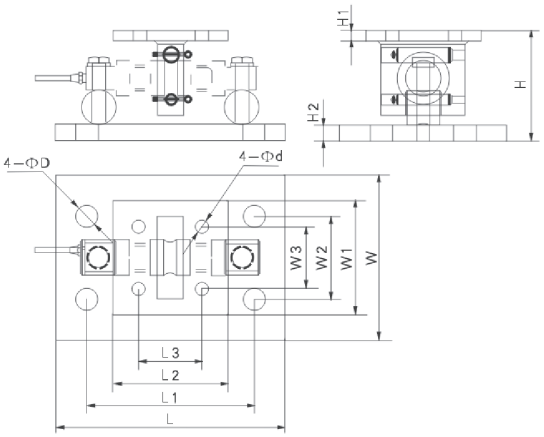
HM-9-401

Alloy steel mounting kit assembled with: H9C, B9C.



Short description

- Compact construction, easy installation.
- Excellent anti–reversal ability.
- Using under heavy static load or light dynamic load.



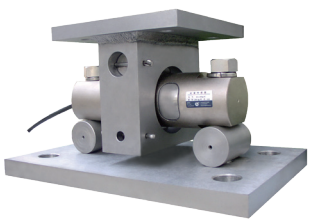
Capacity	Part number
5klb–20klb	HM–9–401–5/20K
30klb–75klb	HM–9–401–30/75K
100klb	HM–9–401–100K
150klb	HM–9–401–150K
200klb–250klb	HM–9–401–200/250K

Specification	
Safety loading	150%FS
Ultimate loading	300%FS
Max. anti–reversal loading	40%FS
Max. anti–side loading	20%FS
Max. vertical lifting	5–20K:3.3K(1.5t)/ 30–75K:11K(5t) 100–150K:16.5K(7.5t)/ 200–250K:68K(31t)

Dimension / Capacity (klb)	L	L1	L2	L3	W	W1	W2	W3	H	H1	H2	D	d
5–20klb	279.4 (11.0)	203.2 (8.0)	139.7 (5.5)	76.2 (3.0)	203.2 (8.0)	139.7 (5.5)	101.6 (4.0)	76.2 (3.0)	139.2 (5.48)	12.7 (0.5)	19 (0.75)	26.9 (1.06)	16 (0.63)
30–75klb	381 (15.0)	292.1 (11.5)	203.2 (8.0)	130.3 (5.13)	254 (10.0)	203.2 (8.0)	152.4 (6.0)	130.3 (5.13)	214.1 (8.43)	19.1 (0.75)	25 (1.0)	31 (1.22)	19.1 (0.75)
100–150klb	57.2 (18.0)	355.6 (14.0)	254 (10.0)	190.5 (7.5)	304.8 (12.0)	254 (10.0)	228.6 (9.0)	190.5 (7.5)	264 (10.39)	31.8 (1.25)	31.8 (1.25)	35.1 (1.38)	20.6 (0.81)
200–250klb	660.4 (26.0)	508 (20.0)	304.8 (12.0)	228.6 (9.0)	304.8 (12.0)	304.8 (12.0)	152.4 (6.0)	228.6 (9.0)	400 (15.73)	50.8 (2.0)	50.8 (2.0)	47.8 (1.88)	26.9 (1.06)

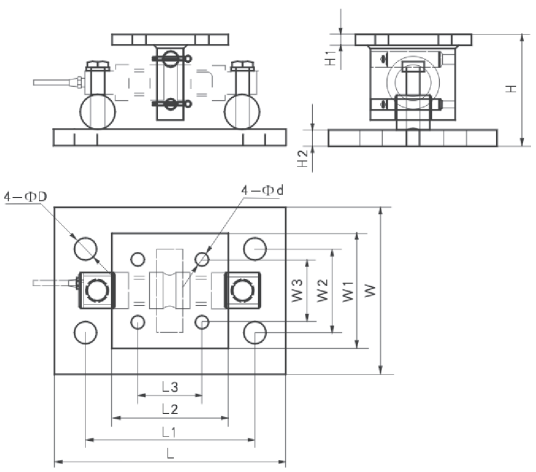
BM-9-402

Alloy steel mounting kit assembled with: H9C, B9C.



Short description

- Compact construction, easy installation.
- Excellent anti–reversal ability.
- Using under heavy static load or light dynamic load.
- Stainless steel, with good ability against corrosive environments.



Capacity	Part number
5klb–20klb	BM–9–402–5/20K
30klb–75klb	BM–9–402–30/75K
100klb	BM–9–402–100K
150klb	BM–9–402–150K
200klb–250klb	BM–9–402–200/250K

Specification	
Safety loading	150%FS
Ultimate loading	300%FS
Max. anti–reversal loading	40%FS
Max. anti–side loading	20%FS
Max. vertical lifting	5–20K:3.3K(1.5t)/ 30–75K:11K(5t) 100–150K:16.5K(7.5t)/ 200–250K:68K(31t)

Dimension / Capacity(klb)	L	L1	L2	L3	W	W1	W2	W3	H	H1	H2	D	d
5–20klb	279.4 (11.0)	203.2 (8.0)	139.7 (5.5)	76.2 (3.0)	203.2 (8.0)	139.7 (5.5)	101.6 (4.0)	76.2 (3.0)	139.2 (5.48)	12.7 (0.5)	19 (0.75)	26.9 (1.06)	16 (0.63)
30–75klb	381 (15.0)	292.1 (11.5)	203.2 (8.0)	130.3 (5.13)	254 (10.0)	203.2 (8.0)	152.4 (6.0)	130.3 (5.13)	214.1 (8.43)	19.1 (0.75)	25 (1.0)	31 (1.22)	19.1 (0.75)
100–150klb	57.2 (18.0)	355.6 (14.0)	254 (10.0)	190.5 (7.5)	304.8 (12.0)	254 (10.0)	228.6 (9.0)	190.5 (7.5)	264 (10.39)	31.8 (1.25)	31.8 (1.25)	35.1 (1.38)	20.6 (0.81)
200–250klb	660.4 (26.0)	508 (20.0)	304.8 (12.0)	228.6 (9.0)	304.8 (12.0)	304.8 (12.0)	152.4 (6.0)	228.6 (9.0)	400 (15.73)	50.8 (2.0)	50.8 (2.0)	47.8 (1.88)	26.9 (1.06)