BM14A



- Stainless steel IP68 compression load cell
- Hermetically sealed
- Suitable for vehicle and hopper scales and vehicle testing facilities
- Built in surge arrestors
- Current calibrated (sc–option)

OIML test certificate no. D09–07.01

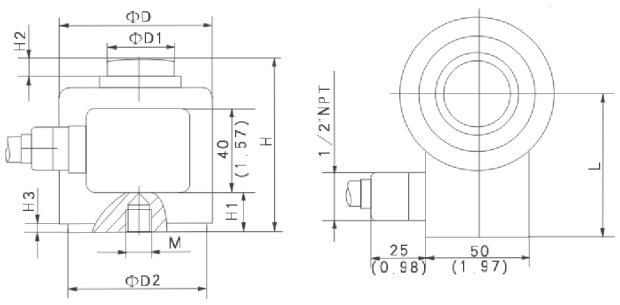
Available models

xxt	C3	BM14A–C3–xxt–xB–SC
xxklb	C3	BM14A–C3–xxK–9YB
10t–100t approved by PTB C3.		

Specification

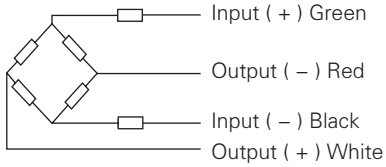
Maximum capacity (Emax)	t	5/10/25/40/60/100		
	klb	10/25/50/100/200/300/500		
Accuracy class		C3		
Approvals		OIML R60 C3		
Maximum number of load cell intervals (nLC)		3000		
Ratio of minimum LC verification interval Y = Emax / vmin		10000		
Combined error	%FS	± 0.020		
Creep	%FS/30min	± 0.016		
Temperature effect on sensitivity	%FS/10℃	± 0.011		
Temperature effect on zero	%FS/10℃	± 0.015		
Output sensitivity (= FS)	mV/V	2.0 ± 0.002		
Input resistance	Ω	450 ± 4.5		
Output resistance	Ω	480 ± 4.8		
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

Dimensions in mm



Capacity / Dimension	5t, 10t,25t	40t,60t	100t	10klb, 25klb,50klb	100klb	200klb 300klb	500klb
D	73 (2.87)	105 (4.13)	152 (5.98)	73 (2.87)	105 (4.13)	152 (5.98)	163 (6.42)
D1	32 (1.26)	59 (2.32)	80 (3.15)	32 (1.26)	59 (2.32)	80 (3.15)	94 (3.70)
D2	58 (2.28)	83 (3.27)	124 (4.88)	58 (2.28)	83 (3.27)	124 (4.88)	136 (5.35)
H	82.5 (3.25)	127 (5)	184 (7.24)	82.5 (3.25)	127 (5)	184 (7.24)	229 (9.02)
H1	13 (0.51)	33 (1.30)	70 (2.76)	12.5 (0.49)	33 (1.30)	70 (2.76)	91 (3.58)
H2	8 (0.31)	9 (0.35)	23 (0.91)	8 (0.31)	9 (0.35)	23 (0.91)	11 (0.43)
H3	2 (0.08)	12 (0.47)	22 (0.87)	2 (0.08)	12 (0.47)	22 (0.87)	25 (0.984)
L	64 (2.52)	87 (3.43)	109 (4.29)	64 (2.52)	87 (3.43)	109 (4.29)	123 (4.8)
M	M12 × 1.75	M20 × 2.5	M20 × 2.5	1/2–20UNF	3/4–16UNF	3/4–16UNF	3/4–16UNF

Wiring

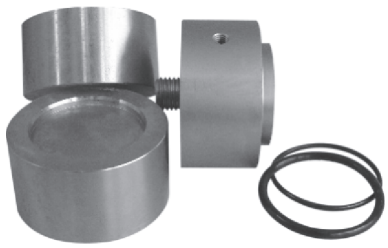


- Shielded, 4 conductor cable.
- Cable diameter: Φ 7.7mm.
- Standard cable length for 10t: 10m and for all other capacities: 20m.
- Shield not connected to element

Accessories

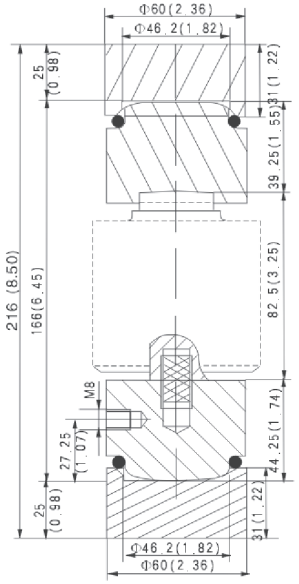
BY-14-101

Stainless steel
Assembled with: BM14A
M8 screw hole is for anti–reversal occasion.

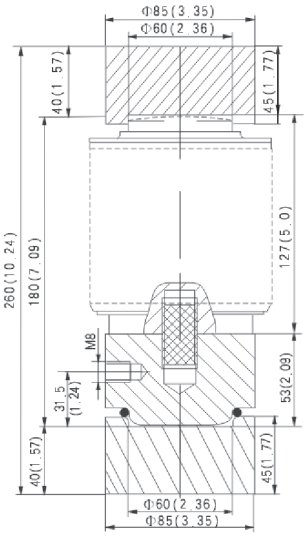


Capacity	Part number
10t,25t	BY–14–101–10/25t
40t,60t	BY–14–101–40/60t
10klb,25klb,50klb	BY–14–101–10/50K
100klb	BY–14–101–100K

10t ~25t，10klb~50klb



40t~60t，100klb



Short description

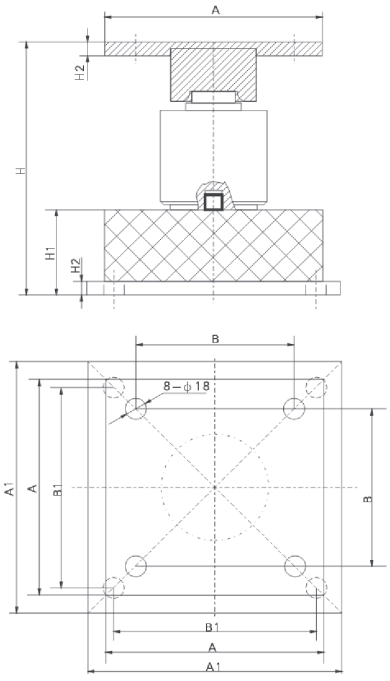
Easy installation, good self–aligning ability, anti–reversal ability.

HM-14-409

Alloy steel
Assembled with: BM14A



Capacity	Part number
10t–25t	HM–14–409–10/25t
40t–60t	HM–14–409–40/60t



Short description

- Compact structure, easy installation.
- Automatic reset function.

Capacity	A	A1	B	B1	H	H1	H2
10t~25t	200 (7.87)	200 (7.87)	150 (5.91)	150 (5.91)	200 (7.87)	53 (2.09)	18 (0.71)
40t~60t	200 (7.87)	225 (8.86)	150 (5.91)	180 (7.09)	240 (9.45)	63 (2.48)	23 (0.91)