BM14C



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

test certificate no. D09–07.03 Revision 1

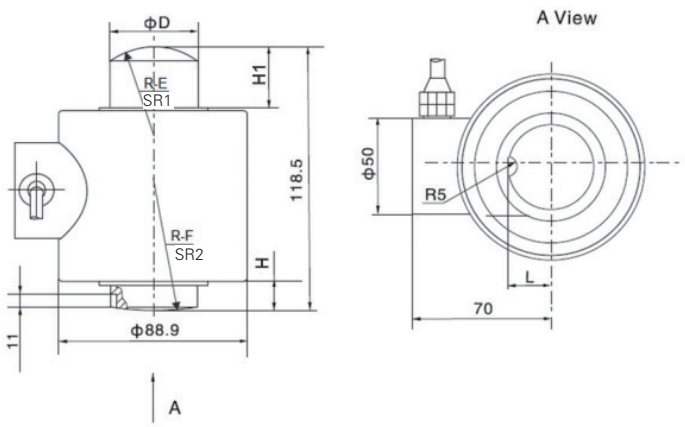
Available models

Capacity	Accuracy	Full article description
0.5 t	C3 Excluded from OIML	BM14C–C3–0.5t–15B
1.0 t	C3 Excluded from OIML	BM14C–C3–1.0t–15B
2.0 t	C3 Excluded from OIML	BM14C–C3–2.0t–15B
3.0 t	C3 Excluded from OIML	BM14C–C3–3.0t–15B
5.0 t	C3 Excluded from OIML	BM14C–C3–5.0t–15B
10 t	C3/C4	BM14C–C3/C4–10t–15B
20 t	C3/C4	BM14C–C3/C4–20t–15B
25 t	C3/C4	BM14C–C3/C4–25t–15B
30 t	C3/C4	BM14C–C3/C4–30t–15B
40 t	C3/C4	BM14C–C3/C4–40t–15B
50 t	C3/C4	BM14C–C3/C4–50t–15B

Specification

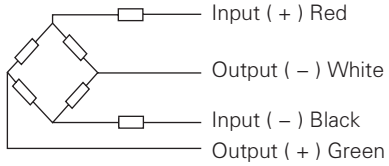
Accuracy class		C3	OIML R60 C3	OIML R60 C4
Output sensitivity (= FS)	mV/V	2.0 ± 0.002		
Maximum capacity (Emax)	t	0.5/1/2/3/5	10/20/25/30/40/50	
Maximum number of load cell intervals (nLC)		3000		4000
Ratio of minimum LC verification interval Y = Emax / vmin		10000		15000
Combined error	%FS	± 0.023		± 0.0174
Minimum dead load	%FS	0		
Safe overload	%FS	150 %		
Ultimate overload	%FS	300 %		
Zero balance	%FS	± 1.0		
Excitation, recommended voltage	V	5 ~ 12(DC)		
Excitation maximum	V	18(DC)		
Input resistance	Ω	700 ± 7		
Output resistance	Ω	703 ± 4		
Insulation resistance	MΩ	⩾ 5000 (50VDC)		
Compensated temperature	℃	–10 ~+40		
Operating temperature	℃	–35 ~ +65		
Element material		Stainless steel		
Ingress protection (according to EN 60529)		IP68		
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73℃	II3G Ex nL IIC T4

Dimensions in mm



Dimension Capacity	ΦD	L	SR1	SR2	H	H1
0.5–5t	40 (1.57)	22 (0.87)	25 (0.98)	150 (5.91)	14 (0.55)	31.5 (1.24)
10–30t	40 (1.57)	22 (0.87)	37.5 (1.48)	150 (5.91)	14 (0.55)	31.5 (1.24)
40–50t	50 (1.97)	27 (1.06)	200 (7.87)	200 (7.87)	21 (0.83)	24.5 (0.96)

Wiring



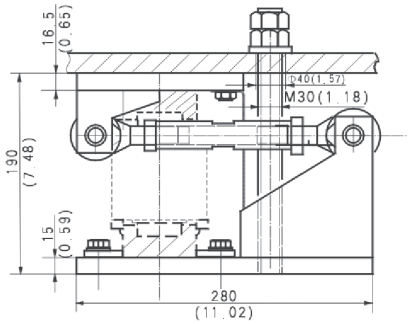
- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm
- Standard cable length : 15m
- Shield not connected to element

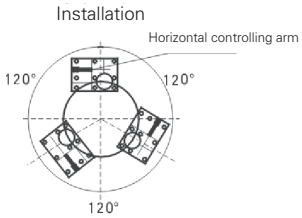
Accessories

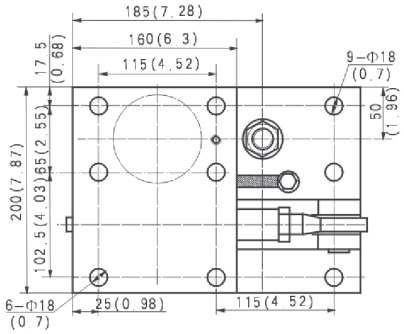
HM-14-401

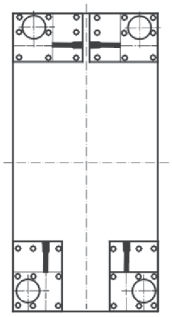
Alloy steel
Assembled with: BM14C, HM14C(without top plate and bottom plate)











Capacity	Part number
10t–50t	HM–14–401–10/50t

Short description

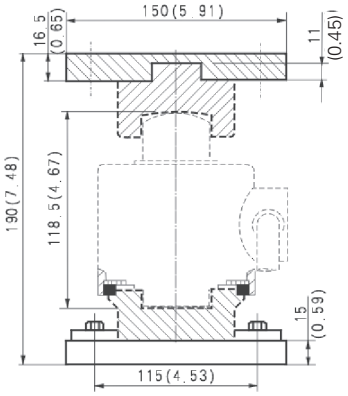
- Compact construction, easy installation
- With anti–reversal ability
- With horizontal locating ability
- With self–aligning ability

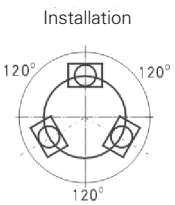
Specification	
Ultimate load	150%FS
Max.anti–rotation	50KN
Max.anti–side loading	50KN
Max.horizontal displacement	5.4mm

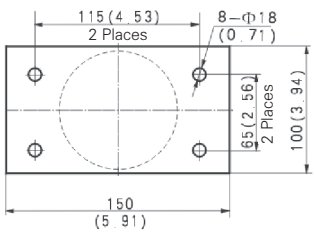
HM-14-403

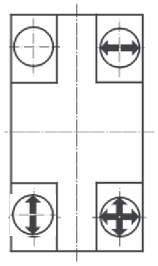
Alloy steel
Assembled with: BM14C, HM14C(without top plate and bottom plate)











Capacity	Part number
10t–50t	HM–14–403–10/50t

Short description

- Compact construction, easy installtion
- With self–aligning ability

Optional table		
Part number	Designation	Cutline
HM–14–403–1	Fixed	◯
HM–14–403–2	Half–floating	⇔
HM–14–403–3	Floating	✣