BM14K

- Stainless steel IP68 compression load cell
- Hermetically sealed
- Suitable for hopper scales and vehicle testing facilities
- Built in surge arrestors



Available models		
xxt	C3/A5M/B10M	BM14K–xx–xxt–xB6
10t–100t approved by PTB C3. NTEP A5M/B10M Certificate (10t–100t)		

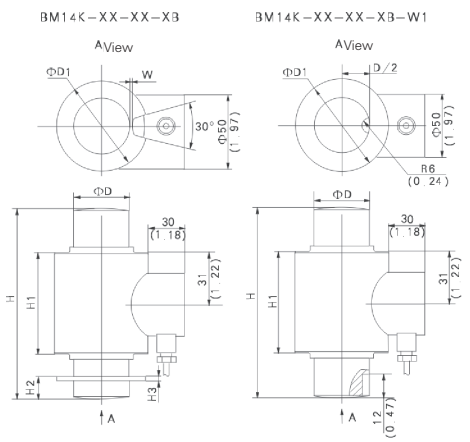
OIML test certificate no. D09–07.02

Certificate no. 10–087

Specification

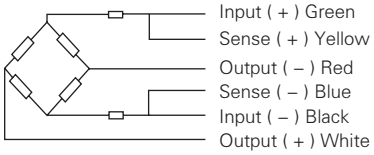
Maximum capacity (E_{max})	t	10/15/20/30/40/50/60/100			
Accuracy class		C3	C4	B10M	A5M
Approvals		OIML R60 C3			
Maximum number of load cell intervals (nLC)		3000	4000	IIIL10000 Multiple	III5000 Multiple
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		10000	14000	10000	15000
Combined error	%FS	± 0.020	± 0.018	± 0.05	± 0.026
Creep	%FS/30min	± 0.016	± 0.012	± 0.04	± 0.017
Temperature effect on sensitivity	%FS/10℃	± 0.011	± 0.009	± 0.04	± 0.013
Temperature effect on zero	%FS/10℃	± 0.015	± 0.010	± 0.02	± 0.014
Output sensitivity (= FS)	mV/V	2.0 ± 0.002			
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 II1C T4		II1D Ex iaD20 T73℃	II3G Ex nL II C T4

Dimensions in mm



Dimension Capacity	H	H1	ΦD	ΦD1
10t,15t	130 (5.12)	80 (3.46)	44 (1.73)	74 (2.91)
20t—40t	150 (5.91)	92 (3.62)	44 (1.73)	74 (2.91)
50t,60t	210 (8.27)	92 (3.62)	44 (1.73)	74 (2.91)
100t	260 (10.24)	121 (4.76)	64 (2.52)	93 (3.66)

Wiring



- Shielded, 6 conductor cable.
- Cable diameter: Φ5.6mm
- Standard cable length for 10t – 30t: 12m,
- for 30t: 18m and for 40t – 100t: 20m.
- Shield not connected to element.

Note:
- BM14K–XX–XX–XB type is not suitable for the following countries: UK, France, Germany, Italy, The Netherlands.
- Users can choose different structures of BM14K products, or contact with ZEMIC sales representaives for further products information.

Accessories

BY-14-109

Stainless ateel, assembled with: BM14K(–WI)
Locating pin on the bottom plate is for anti–rotation occasion.



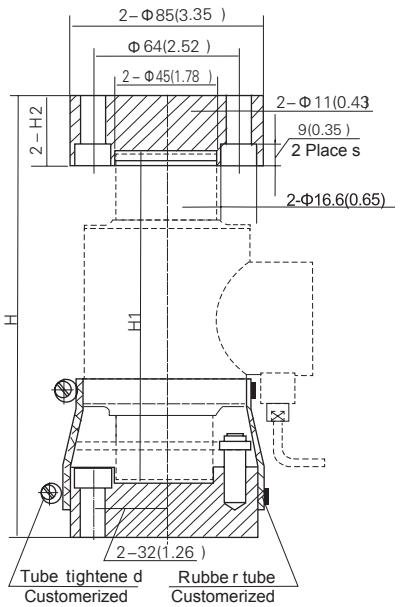
Short description

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

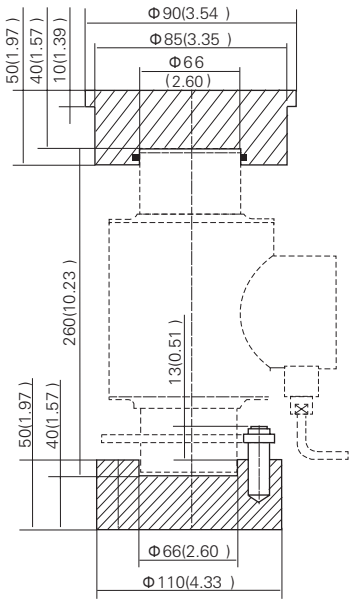
Capacity	Part number
10t,15t	BY–14–109–10/15t
20t–40t	BY–14–109–20/40t
50t,60t	BY–14–109–50/60t
100t	BY–14–109–100t

Dimensions in mm

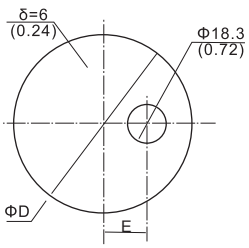
10t–60 t



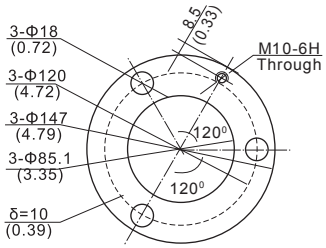
100t



Eccentric washer, Φ165(6.5)
Customerized



The locating circle can be offered on requests.



Dimension / Capacity	10t,15t	20t–40t	50t,60t	100t
H	160(6.3)	200(7.87)	260(10.24)	See pictures
H1	130(5.12)	150(5.91)	210(8.27)	See pictures
H2	22(0.87)	32(1.26)	32(1.26)	See pictures
D	80(3.15)	80(3.15)	80(3.15)	55(2.17)
E	18.9(0.74)	18.9(0.74)	18.9(0.74)	14(0.55)

Accessories

BY-14-102

Stainless steel,
Assembled with: BM14K
Locating pin on the bottom plate is for anti–rotation occasion.



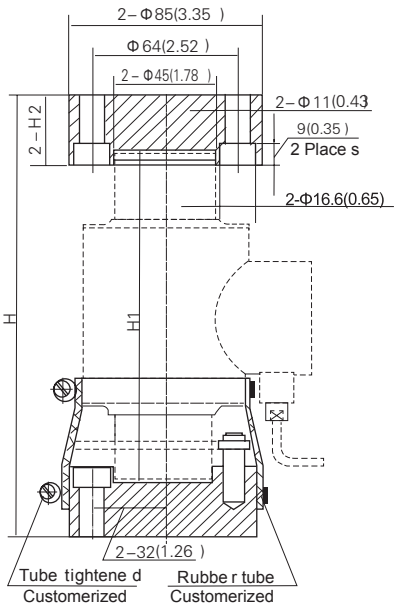
Short description

- Easy installation, good self–aligning ability, anti–reversal ability.
- Stainless steel construction, anti–corrosion, can be used under hazardous environments.
- Mainly used for platform scales, automobile testing facilities, electronic truck scales and other electronic weighing devices.

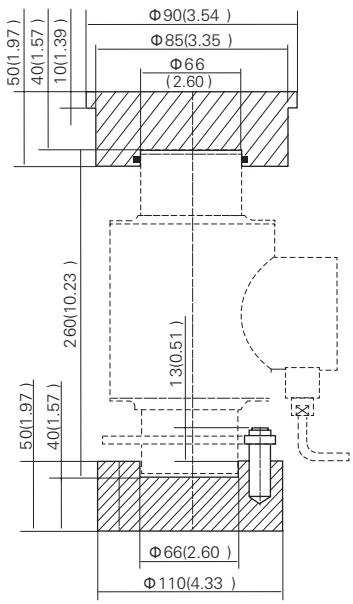
Capacity	Part number
10t,15t	BY–14–102–10/15t
20t–40t	BY–14–102–20/40t
50t,60t	BY–14–102–50/60t
100t	BY–14–102–100t

Outline Dimension mm(inch)

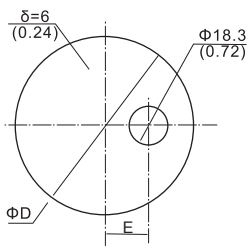
10t–60 t



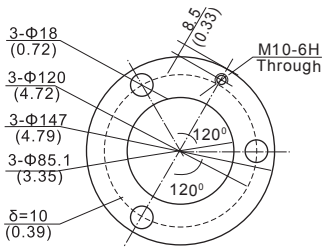
100t



Eccentric washer, Φ165(6.5)
Customerized



The locating circle can be offered on requests.



Dimension / Capacity	10t,15t	20t–40t	50t,60t	100t
H	160(6.3)	200(7.87)	260(10.24)	See pictures
H1	130(5.12)	150(5.91)	210(8.27)	See pictures
H2	22(0.87)	32(1.26)	32(1.26)	See pictures
D	80(3.15)	80(3.15)	80(3.15)	55(2.17)
W	18.9(0.74)	18.9(0.74)	18.9(0.74)	14(0.55)