BM24R

- Stainless steel IP68 low profile load cell
- Hermetically sealed
- Suitable for hopper, platform and pallet scales
- Integrated static overload protection up to 13t



BM24R
60kg – 280kg



BM24R
250kg – 13t



BM24R
28t – 60t

Available models

Capacity	Accuracy	Full article description
60 kg	C3/C4/C5	BM24R –60kg –C3/C4/C5 –3G
130 kg	C3/C4/C5	BM24R –130kg –C3/C4/C5 –3G
280 kg	C3/C4/C5	BM24R –280kg –C3/C4/C5 –3G
250 kg	C3/C4/C5	BM24R –250kg –C3/C4/C5 –3G
500 kg	C3/C4/C5	BM24R –500kg –C3/C4/C5 –3G
1 t	C3/C4/C5	BM24R –1t –C3/C4/C5 –3G
2 t	C3/C4/C5	BM24R–2t –C3/C4/C5 –6G
3.5 t	C3/C4/C5	BM24R–3.5t –C3/C4/C5 –6G
5 t	C3/C4/C5	BM24R–5t –C3/C4/C5 –6G
10 t	C3/C4/C5	BM24R–10t –C3/C4/C5 –15G
13 t	C3/C4/C5	BM24R–13t –C3/C4/C5 –15G
28 t	C3/C4/C5	BM24R–28t –C3/C4/C5 –15G
60 t	C3/C4/C5	BM24R–60t –C3/C4/C5 –15G

test certificate no. TC7865 Revision 1
C of C no R60/2000–NL1–11.21

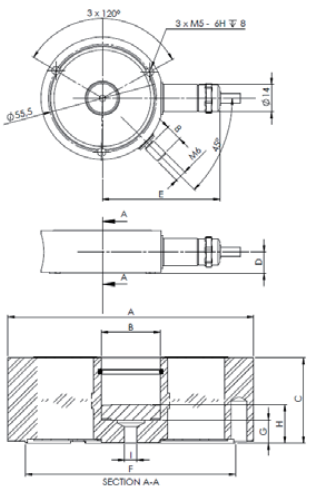
Certificate no. 11–103A1

Specification

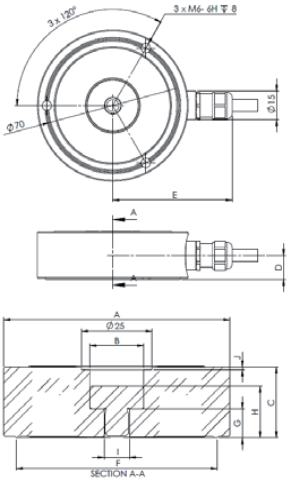
Accuracy class		OIML R60 C3 / OIML R60 C4 / OIML R60 C5					
Output sensitivity (= FS)	mV/V	1 ± 0.01	1.75 ± 0.1	2.0 ± 0.1	2.0 ± 0.1	2.0 ± 0.1	2.0 ± 0.1
Maximum capacity (E_{max})	t	0.06/0.13/ 0.28	0.25	0.5/1/ 2/ 3.5/5/10	13	28	60
Maximum number of load cell intervals (nLC)		C3 = 3000, C4 = 4000, C5 = 5000					
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		C3 = 10000, C4 and C5 = 16000					
Combined error	%FS	C3 = ± 0.0230, C4 = ± 0.0174, C5 = ± 0.0140					
Minimum dead load	%FS	0					
Safe overload	%FS	150 %					
Safe sideload	%FS	75%					
Zero balance	%FS	± 1.0					
Excitation, recommended voltage	V	10 ~ 15(DC)					
Excitation maximum	V	30(DC)					
Input resistance	Ω	1260 ± 100	1100 ± 100	1100 ± 100	1200 ± 100	1075 ± 100	1350 ± 200
Output resistance	Ω	1020 ± 0.5	1025 ± 25	1025 ± 25	1000 ± 0.5	930 ± 0.5	1175 ± 0.5
Insulation resistance	MΩ	⩾ 5000 (50VDC)					
Compensated temperature	℃	–10 ~+40					
Operating temperature	℃	–35 ~ +65					
Temperature range, storage	℃	–40 ~ +70					
Element material		Stainless steel					
Ingress protection (according to EN 60529)		IP68					
Recommended torque on fixation	N.m	M5: 3.5 M6:10					

Dimensions in mm

0.06, 0.13, 0.28t



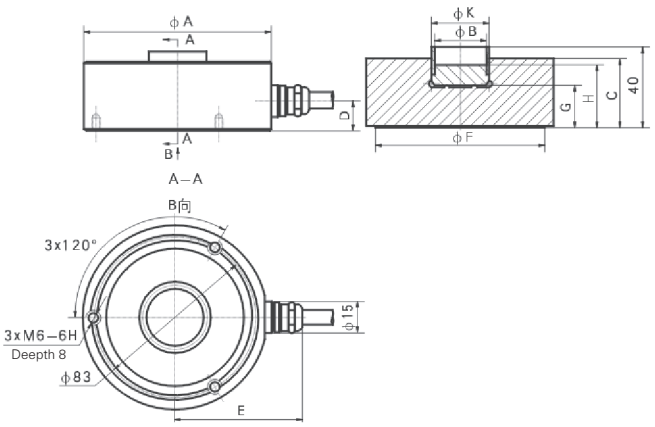
250kg, 0.5, 1, 2, 3.5, 5t



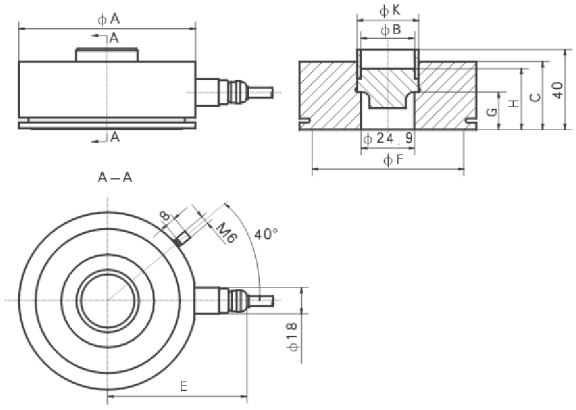
BM24R

Outline Dimension mm(inch)

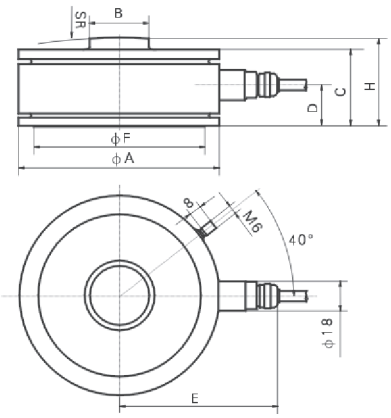
BM24R–10 t



BM24R 13 t

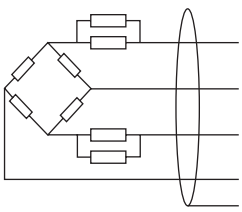


BM24R 28 t / 60 t



Dimension / Capacity	ΦA	ΦB	C	D	E	ΦF	G	H	I	J	ΦK	SR
60kg / 130kg / 280kg	63	15.1	22	11	60	54	6	10	Φ3.2	––	––	––
0.25t/0.5t/1t	80	19	26	12.5	65	71	10	18	M10	1	25	––
2t / 3.5t	80	19	30	12.5	65	71	10	18	Φ15	6	25	––
10t	95	26	35	12.5	72	75	20.7	31.2	––	––	29	––
13t	95	26	35	20	85	79.5	20	31	––	––	29	––
28t	120	35.9	46	25	94	102	––	53	––	––	––	400
60t	140	47.9	62	34	104	124	––	69	––	––	––	600

Wiring



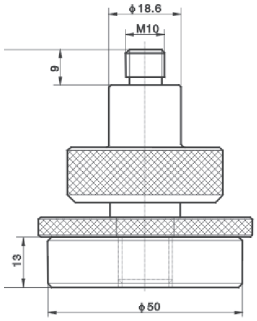
Adopt shielded, 4 conductor cable: Φ6.2 ± 0.1mm

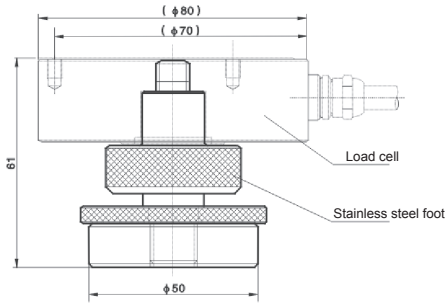
Capacity	Standard cable length (m)
60Kg	3
130Kg	
250Kg	
280Kg	
500Kg	
1t	
2t	6
3.5t	
5t	
10t	15
13t	
28t	
60t	

Accessories

BJ-24-202







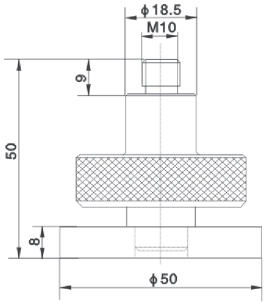
Capacity	Part number
250kg–1t	BJ–24–202

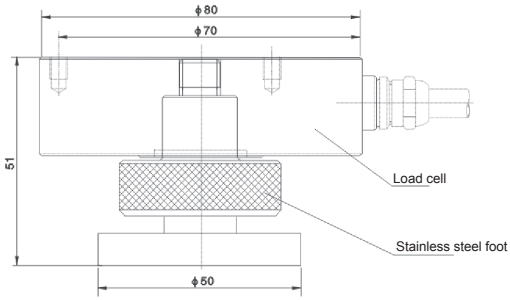
Short description

- Stainless steel material, assembled with load cell: BM24R
- Automatically centralized inside, good ability of anti–side load, easy installation, height with 5mm adjustment.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.
- Capacity: 250Kg, 500Kg, 1t.

BJ-24-203







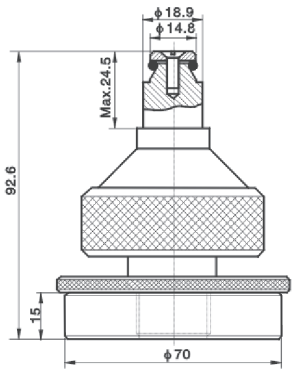
Capacity	Part number
250kg–1t	BJ–24–203

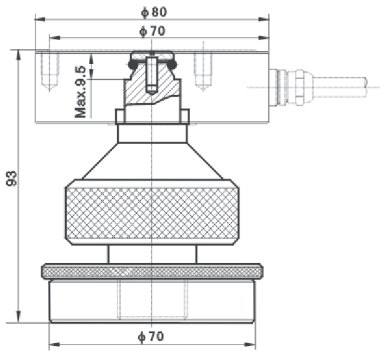
Short description

- Stainless steel material, assembled with load cell: BM24R
- Automatically centralized inside, good ability of anti–side load, easy installation, height with 5mm adjustment.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.
- Capacity: 250Kg, 500Kg, 1t.

BJ-24-204







Capacity	Part number
2t–5t	BJ–24–204

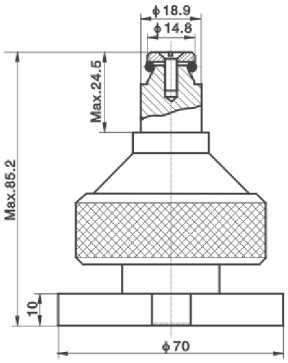
Short description

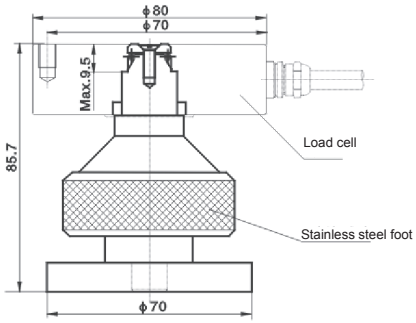
- Stainless steel material, assembled with load cell: BM24R
- Automatically centralized inside, good ability of anti–side load, easy installation, height with 5mm adjustment.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.
- • Capacity: 2t, 3.5t, 5t.

Accessories

BJ-24-205





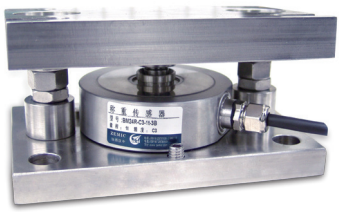


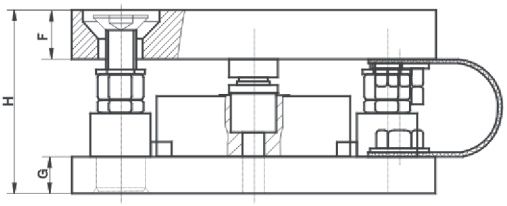
Capacity	Part number
2t–5t	BJ–24–205

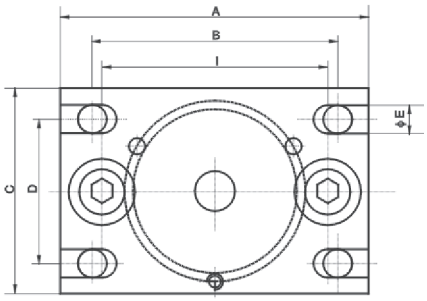
Short description

- Stainless steel material, assembled with load cell: BM24R
- Automatically centralized inside, good ability of anti–side load, easy installation, height with 5mm adjustment.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.
- Capacity: 2t, 3.5t, 5t.

BM-24-401/402/403







Short description

- Assembled with load cell BM24R.
- AISI 304 stainless steel and Rocker–pin load introduction.
- Built–in horizontal movement control and lift–off protection.
- Easy load cell (re) placement after mount installation.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.

Specifications				
Model number		BM–24–401	BM–24–402	BM–24–403
Capacity		250kg / 500kg / 1t	2t / 3.5t / 5t	10t / 13t
Maximum vertical force without load cell	KN	15	30	50
Maximum lift off force	KN	10	20	30
Maximum horizontal force in all directions	KN	5	10	20
Maximum horizontal movement	mm	±3	±3	±3
Installation height	mm	80	105	117
Working height	mm	75	100	110

Capacity \ Dimension	A	B	C	D	ΦE	F	G	H	I
250kg / 500kg / 1t	150	120	100	70	Φ14	20	15	75	110
2t / 3.5t / 5t	160	120	110	70	Φ16	20	20	100	––
10t / 13t	210	175	120	85	Φ18	25	20	110	––