BM3



- Stainless steel IP68 “S” type load cell
- Tension and compression applications
- Suitable for hanging, hopper and other weighing devices

test certificate no. D09–08.01 C of C no R60/2000–DE1–10.08

Certificate no. 06–099A1

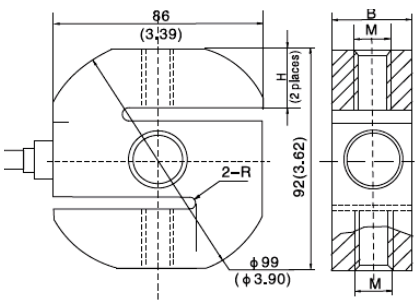
Available models

Capacity	Accuracy	Full article description
50 kg	C3	BM3–C3–50kg–6B
100 kg	C3	BM3–C3–100kg–6B
150 kg	C3	BM3–C3–150kg–6B
200 kg	C3	BM3–C3–200kg–6B
250 kg	C3	BM3–C3–250kg–6B
500 kg	C3	BM3–C3–500kg–6B
1.0 t	C3	BM3–C3–1.0t–6B
2.0 t	C3	BM3–C3–2.0t–6B
3.0 t	C3	BM3–C3–3.0t–6B
4.0 t	C3	BM3–C3–4.0t–6B
5.0 t	C3	BM3–C3–5.0t–6B
6.0 t	C3	BM3–C3–6.0t–6B
7.5 t	C3	BM3–C3–7.5t–6B

Specification

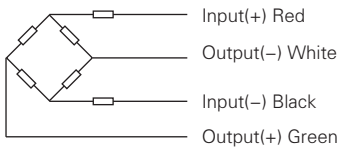
Accuracy class		OIML R60 C3		
Output sensitivity (= FS)	mV/V	2.0 ± 0.004		
Maximum capacity (E_{max})	t	0.5/1/2/2.5/3/4/5/6/7.5		
Maximum number of load cell intervals (nLC)		3000		
Ratio of minimum LC verification interval Y = E_{max} / vmin		7500	12000	
Combined error	%FS	± 0.02		
Minimum dead load	kg	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	350 ± 3.5		
Output resistance	Ω	350 ± 3.5		
Insulation resistance	MΩ	⩾ 5000 (50VDC)		
Compensated temperature	℃	–10 ~+40		
Operating temperature	℃	–35 ~ +65		
Storage temperature	℃	–40 ~ +70		
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



Capacity(t) / Dimension	0.5t,1t	2t,2.5t,3t	4t	5t,6t,7.5t
W	32 (1.26)	32 (1.26)	36 (1.42)	50 (1.97)
H	25 (0.98)	25 (0.98)	25 (0.98)	26 (1.02)
M	M12 x 1.75	M20 x 1.5	M20 x 1.5	M24 x 2

Wiring



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm
- Standard cable length for 500kg: 3m and for all other capacities: 6m.
- Shield not connected to element