

Type BM3 Load Cell



Short description

- 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
50kg	C3 Excluded from OIML	BM3-C3-50kg-6B
100kg	C3 Excluded from OIML	BM3-C3-100kg-6B
150kg	C3 Excluded from OIML	BM3-C3-150kg-6B
200kg	C3 Excluded from OIML	BM3-C3-200kg-6B
250kg	C3 Excluded from OIML	BM3-C3-250kg-6B
0.5t	C3	BM3-C3-0.5t-3B
1t	C3	BM3-C3-1t-6B
2t	C3	BM3-C3-2t-6B
3t	C3	BM3-C3-3t-6B
4t	C3	BM3-C3-4t-6B
5t	C3	BM3-C3-5t-6B
6t	C3	BM3-C3-6t-6B
7.5t	C3	BM3-C3-7.5t-6B

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

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Detailed specifications BM3

Accuracy class		C3	OIML R60 C3
Output sensitivity (= FS)	mV/V	2.0 ± 0.008	2.0 ± 0.004
Maximum capacity (E _{max})	t	0.05, 0.1, 0.15, 0.2, 0.25	0.5, 1, 2, 3, 4, 5, 6, 7.5
Max.number of load cell intervals	n _{LC}	3000	
Ratio of min. LC verification interval	$Y = E_{\max} / v_{\min}$	7500	12000
Combined Error	%FS	± 0.0230	
Minimum dead load	Of E _{max}	0%	
Safe overload	of E _{max}	150 %	
Ultimate overload	of E _{max}	300 %	
Zero balance	of FS	< ± 1.5 %	
Excitation, recommended voltage	V	5 ~ 12	
Excitation maximum	V	18	
Input resistance	Ω	350 ± 3	
Output resistance	Ω	350 ± 3	
Insulation resistance	MΩ	≥ 5000 (at 50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Stainless steel	
Ingress Protection (acc. to EN 60529)		IP68	
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD 20 T73°C II3G nL IIC T4

Wiring

Wiring:

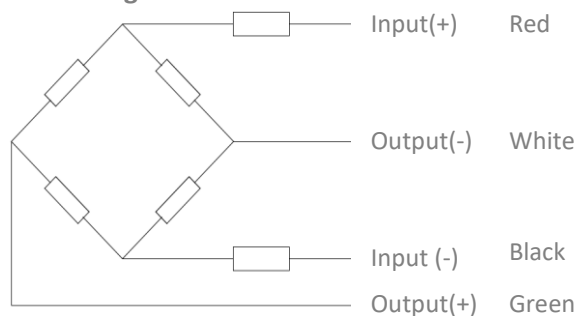
Shielded, 4 conductor cable.

Cable diameter: Ø5mm

Standard cable length for 500kg:3m and for all other capacities: 6m.

Shield not connected to element

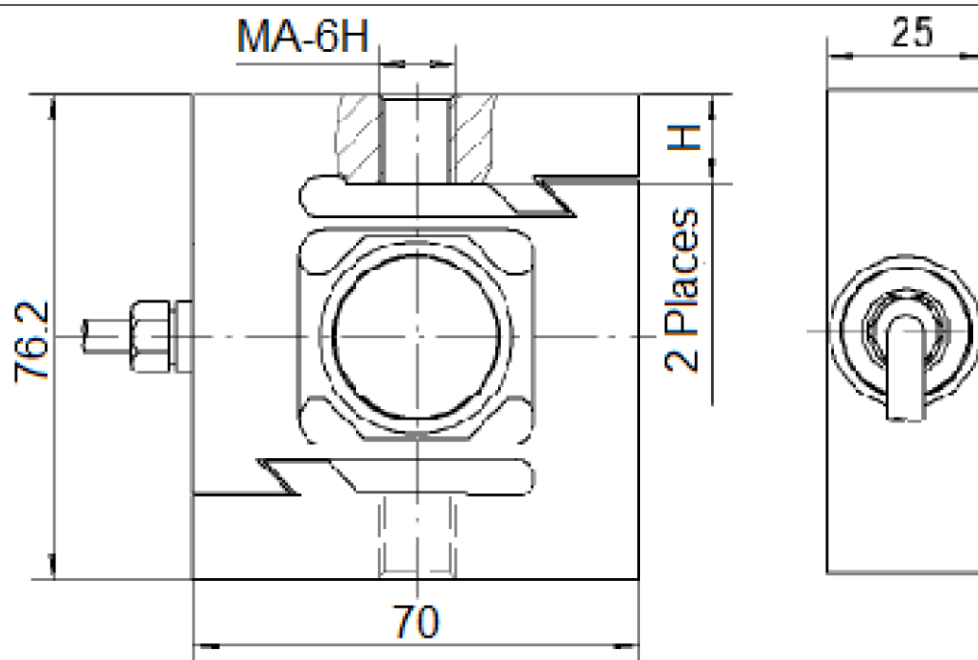
4-wire diagram



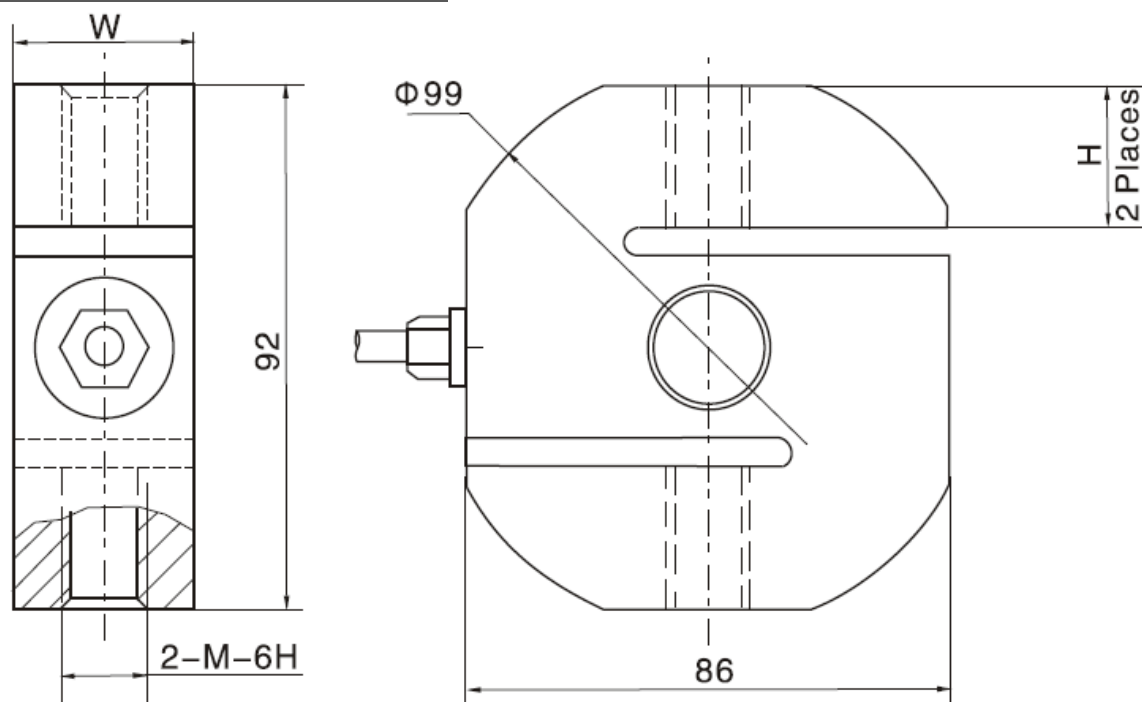
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Dimensions in mm



Dimension Capacity	MA	H
50kg, 100kg	M8	13
150kg - 250kg	M12 x 1.75	14

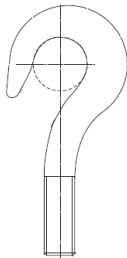
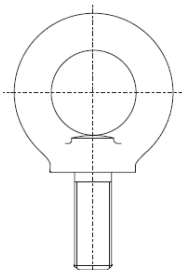
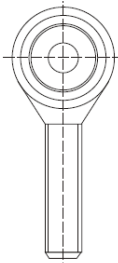
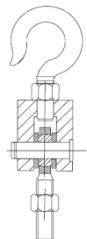
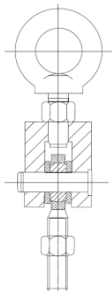


Dimension Capacity	W	H	M
0.5t, 1t	32	25	M12 x 1.75
2t, 3t	32	25	M20 x 1.5
4t	36	25	M20 x 1.5
5t, 6t, 7.5t	50	24	M24 x 2

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Available accessories

HL-3-001-25kg-4t hook • Alloy steel • Suitable for hybrid scales, crane scales, packaging scales and hopper scales	
HL-3-002-0.025-4t eye • Alloy steel • Suitable for hybrid scales, crane scales, packaging scales and hopper scales	
HL-3-003-0.025-7.5t rod end • Alloy steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices.	
HL-3-004-0.025-3t hook assembly • Alloy steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices.	
HL-3-005- 0.025-4t eye assembly • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices.	
HL-3-007- 5t rod end • Alloy Steel • Suitable for hybrid scales, crane scales, packaging scales, hopper scales and other electronic weighing devices.	

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