

Type BM6A Load Cell



Short description



- Stainless steel IP68 single point load cell
- Suitable for platform, belt scales and other weighing devices
- Hermetically sealed
- Maximum platform size: 350 x 350 mm



test certificate no. TC7834 revision 1
C of C no R60/2000-NL1-10.32

Available models

Capacity	Accuracy	Full article description
6kg	C3	BM6A-C3-6kg-6B6
12kg	C3	BM6A-C3-12kg-6B6
30kg	C3	BM6A-C3-30kg-6B6
60kg	C3	BM6A-C3-60kg-6B6

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

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Detailed specifications BM6A

Accuracy class		OIML R60 C3		
Output sensitivity (= FS)	mV/V	2.0 ± 0.2		
Maximum capacity (E _{max})	kg	6, 12, 30, 60		
Max.number of load cell intervals	n _{LC}	3000		
Ratio of min. LC verification interval	$Y = E_{max} / v_{min}$	15000		
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	400 ± 20		
Output resistance	Ω	350 ± 3.5		
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		
Recommended torque on fixation	Nm	M6: 10		
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD 20 T73°C	II3G nL IIC T4

Wiring

Wiring:

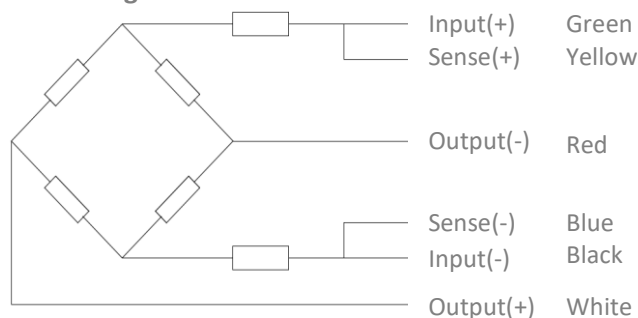
Shielded cable, 6 conductor cable.

Cable diameter: Ø6.2mm

Standard cable length: 6m

Shield not connected to element

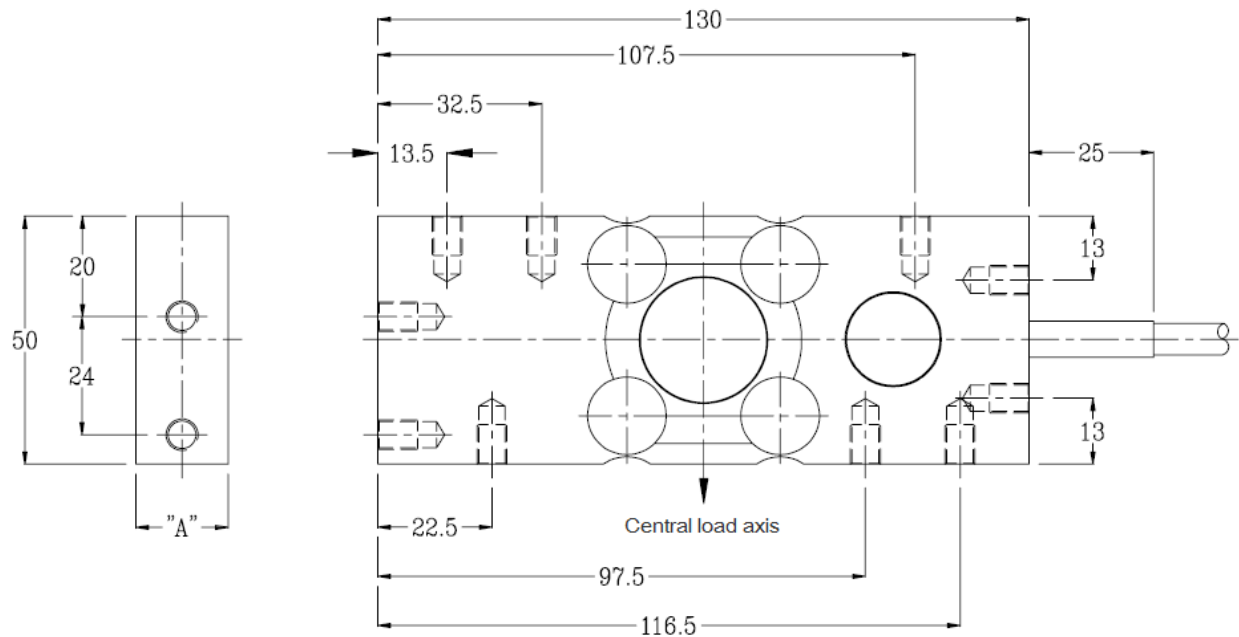
6-wire diagram



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Dimensions in mm



Dimension Capacity	A
6kg, 12kg, 30kg	18.5
60kg	23.5

All threads are M6 x 1 and 8 mm deep.

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