



## Short Description



- Stainless steel IP68 single point load cell
- Suitable for platform, belt scales and other weighing devices
- Hermetically sealed
- Recommended maximum platform size: 350 × 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.

## Technical Specifications BM6A

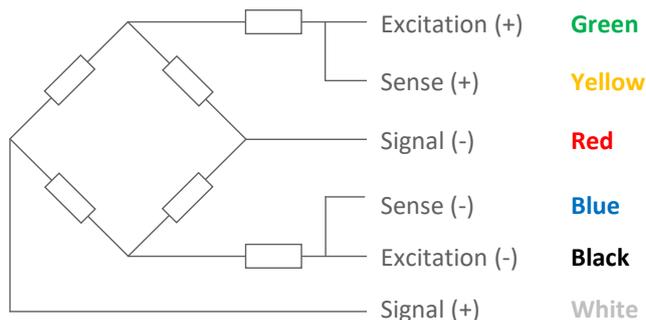
Accuracy Class		OIML R60 C3		
Output Sensitivity ( = FS )	mV/V	2.0 ± 0.2		
Maximum Capacity ( E <sub>max</sub> )	kg	6, 12, 30, 60		
Max. Number of Load Cell Intervals	n <sub>LC</sub>	3000		
Ratio of min. LC Verification Interval	$Y = E_{max} / v_{min}$	10000		
Combined Error	%FS	≤± 0.023		
Creep Error (30 minutes)	%FS	≤± 0.016		
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.015		
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.011		
Zero Balance	%FS	≤± 1.5		
Safe Overload	%FS	150		
Ultimate Overload	%FS	300		
Maximum Deflection	mm	6 – 12kg: ~0.17	30kg: 0.13	60kg: 0.12
Eccentric Loading Error	%Ld/cm	± 0.002		
Excitation, Recommended Voltage	V	5 ~ 12		
Excitation, Maximum Voltage	V	18		
Input Resistance	Ω	400 ± 20		
Output Resistance	Ω	351 ± 2		
Insulation Resistance (50V)	MΩ	≥5000		
Compensated Temperature	°C	-10 ~ + 40		
Operating Temperature	°C	-35 ~ + 65		
Storage Temperature	°C	-40 ~ + 70		
Load Cell Weight	kg	~ 1.2		
Element Material		Stainless Steel		
Ingress Protection (acc. to EN 60529)		IP68		
Recommended Torque on Fixation Bolts	Nm	M6: 10		
ATEX Classification (optional)		II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T <sub>200</sub> 135°C Da	II 3G Ex ic IIC T4 Gc

## Wiring

### Features:

Cable type: Shielded, 6 conductor cable , conductor AWG 24  
 Cable diameter: Ø 6.2mm  
 Cable length: 6.0m  
 Cable jacket: Polyurethane  
 Shield not connected to element

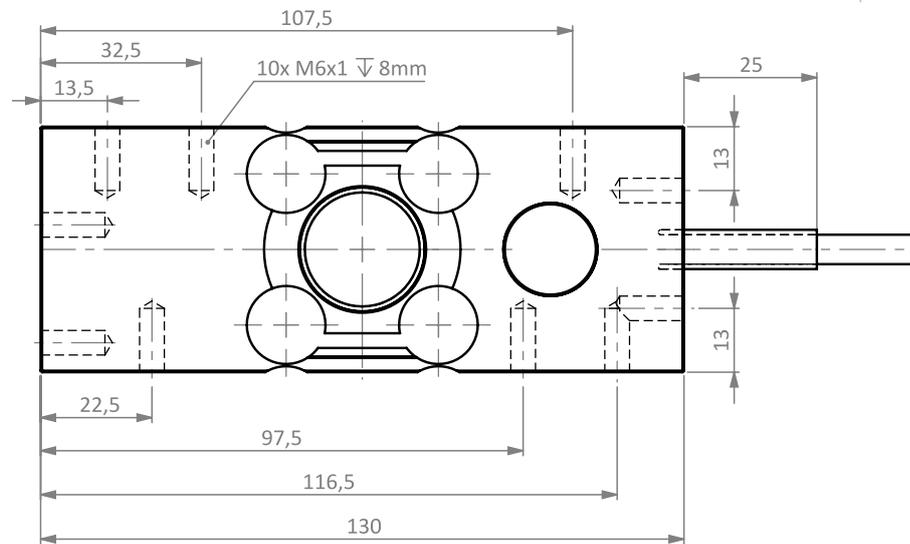
### 6-Wire Connection Diagram



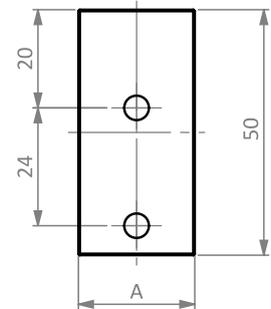
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## Dimensions in mm

### Front View



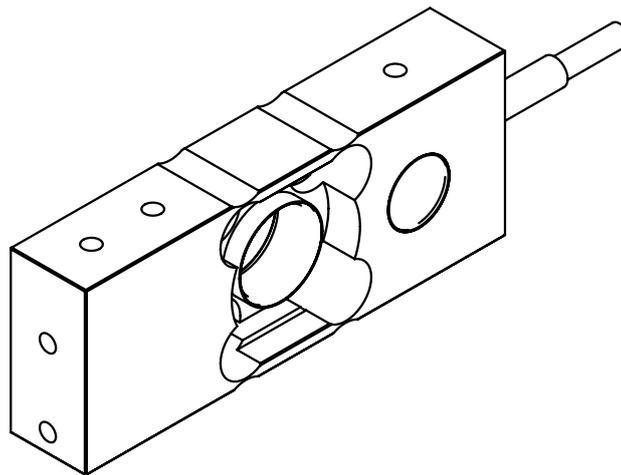
### Side View



### Top View



### Isometric View



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

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