

# 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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# Type BM6A Load Cell

## Detailed 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 | $Y = E_{max} / v_{min}$ | 15000               |                      |                |
| Combined Error                         | %FS                     | ≤ ± 0.0230          |                      |                |
| Minimum dead load                      | Of E <sub>max</sub>     | 0%                  |                      |                |
| Safe overload                          | of E <sub>max</sub>     | 150 %               |                      |                |
| Ultimate overload                      | of E <sub>max</sub>     | 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:

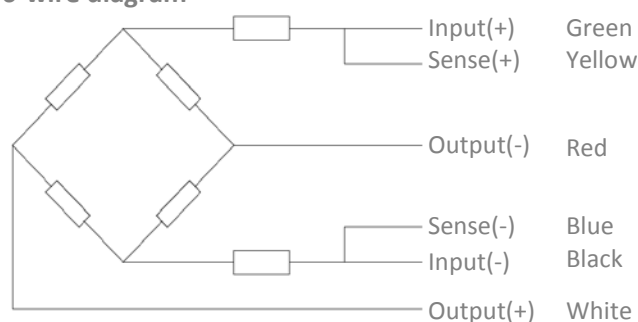
Shielded cable, 6 conductor cable.

Cable diameter: Ø6.2mm

Standard cable length: 6m

Shield not connected to element

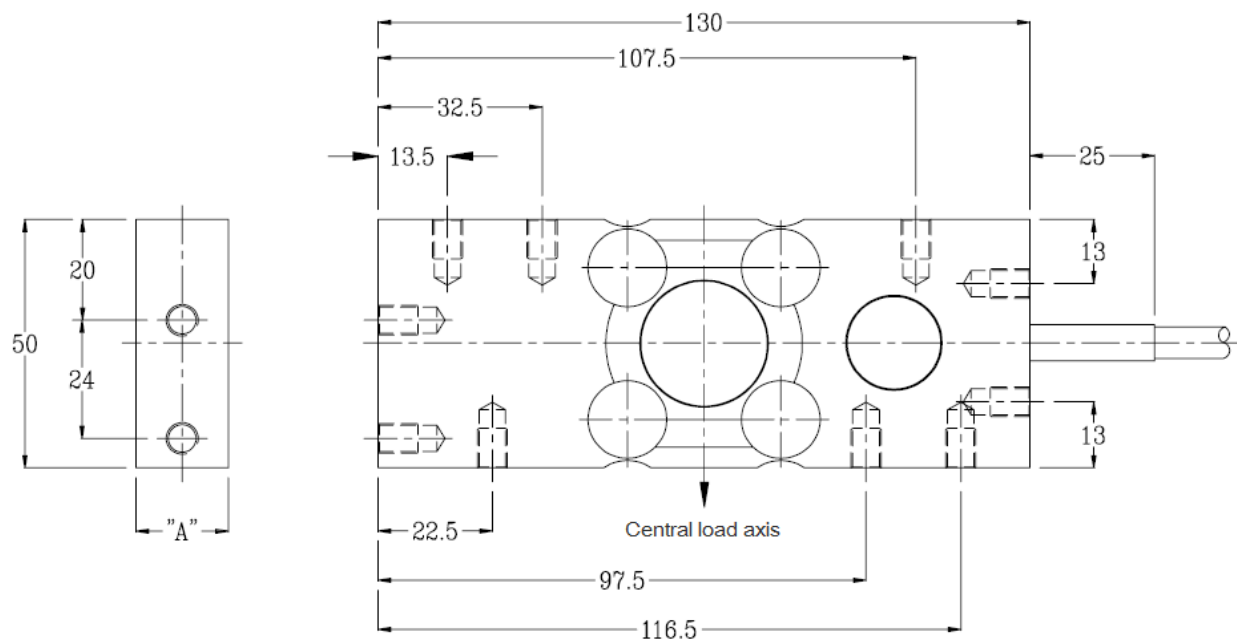
### 6-wire diagram



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Dimensions in mm



| Dimension<br>Capacity | A    |
|-----------------------|------|
| 6kg, 12kg, 30kg       | 18.5 |
| 60kg                  | 23.5 |

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