

## Rocker Pin Load Cell CB50X with a Rated Load of 5 ... 60 t



### Performance Features

- Rocker Pin Load Cell made of stainless steel
- Protection class IP68, welded
- 4000d OIML R60 approved
- Spherical and self centering base
- Anti-rotating system included
- Ideally suited for weighbridge use and silo weighing
- Surge protection (option)
- Anti-rodent shielded cable (option)
- ATEX 2014/34/EU version for hazardous area (option)

### Application

- Food industry
- Coal and steel industry
- Chemical / pharmaceutical industry
- Waste management / recycling
- Packaging technology

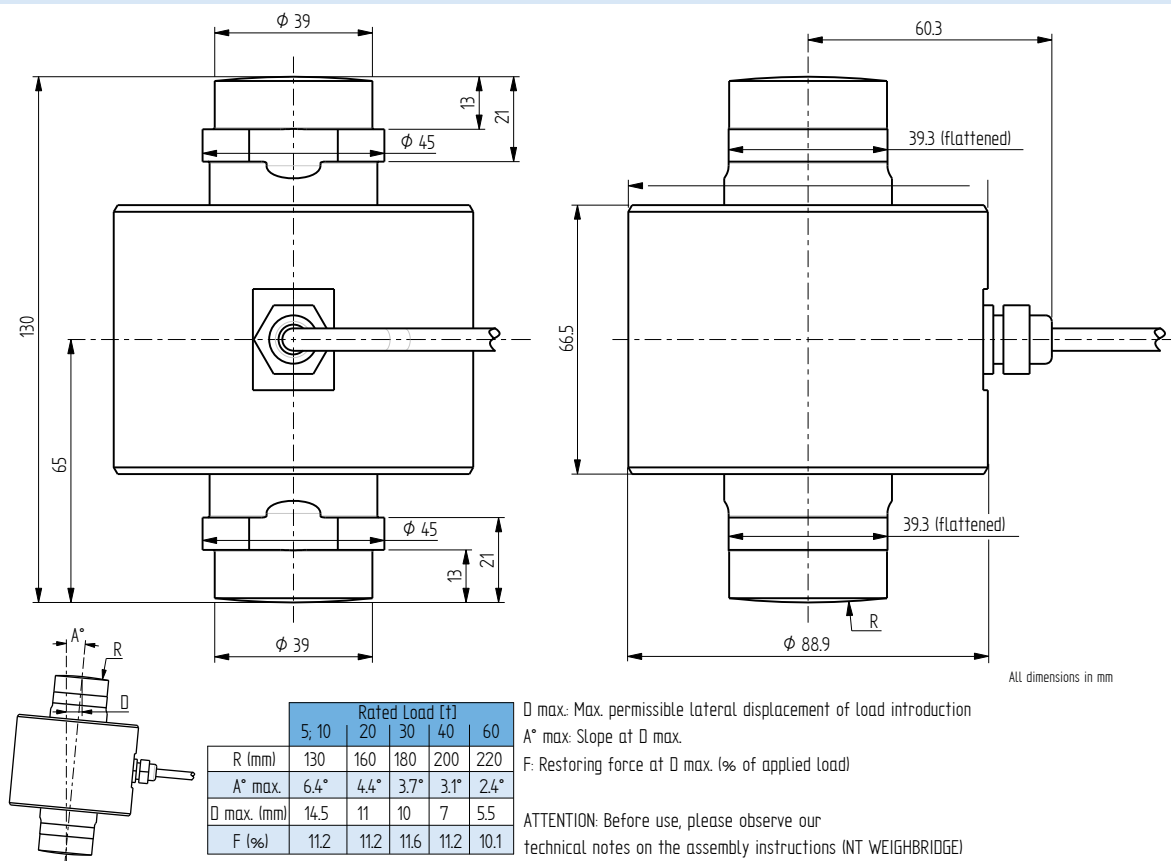


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sales@absolute-gauge.com; www.absolute-gauge.com,  
Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008



## Dimensions in mm



| Article-No. | Version | Rated load [t] |
|-------------|---------|----------------|
| 105147      | C4 10e  | 5              |
| 105209      | C4 10e  | 10             |
| 105214      | C4 10e  | 20             |
| 105148      | C4 10e  | 30             |
| 105215      | C4 10e  | 40             |
| 105216      | C4 10e  | 60             |

## Connection Assignment

### Electrical Connection

| Function       | Wire Color |
|----------------|------------|
| Excitation (+) | Red        |
| Signal (+)     | White      |
| Signal (-)     | Yellow     |
| Excitation (-) | Blue       |



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## Technical Data

| Type                                                          | CB50X              |                       |
|---------------------------------------------------------------|--------------------|-----------------------|
| Version                                                       |                    | C4 10e                |
| Rated load <b>E</b>                                           | t                  | 5; 10; 20; 30; 40; 60 |
| Maximum load for approved weighing <b>E<sub>max</sub></b>     | t                  | 5; 10; 20; 30; 40; 60 |
| Accuracy class OIML R60                                       |                    | C4                    |
| Maximum numbers of load cell intervals <b>n<sub>max</sub></b> | d OIML             | 4000                  |
| Minimum verification interval <b>v<sub>min</sub></b>          | t                  | $E_{max}/10000$       |
| Creep division factor $Z = E_{max}/2 \times DR$               |                    | 4000                  |
| Combined error                                                | % E                | ±0.013                |
| Temperature coefficient of zero signal                        | % E/°C             | ±0.0014               |
| Temperature coefficient of characteristic value               | % E/°C             | ±0.0011               |
| Load creep <b>d<sub>cr, F</sub></b> in 30 min.                | % E                | ±0.018                |
| Zero balance                                                  | % E                | ±2.5                  |
| Rated output at <b>E C<sub>nom</sub></b>                      | mV/V               | 2 ±10 %               |
| Rated range of excitation voltage <b>B<sub>U, nom</sub></b>   | V                  | 1 ... 15              |
| Input resistance <b>R<sub>e</sub></b>                         | Ω                  | 815 ±20               |
| Output resistance <b>R<sub>a</sub></b>                        | Ω                  | 700 ±0.35             |
| Signal adjustment                                             | % E                | 0.1                   |
| Insulation resistance <b>R<sub>is</sub></b>                   | MΩ/50V             | 5000                  |
| Electrical connection                                         |                    | Cable, PVC, 15 m      |
| Material cable gland                                          |                    | Nickel plated steel   |
| Rated temperature range <b>B<sub>T, nom</sub></b>             | °C                 | -10 ... 40            |
| Operating temperature range <b>B<sub>T, G</sub></b>           | °C                 | -20 ... 60            |
| Limit load <b>E<sub>lim</sub></b>                             | % E <sub>max</sub> | 150                   |
| Breaking load <b>E<sub>B</sub></b>                            | % E <sub>max</sub> | 300                   |
| Level of protection                                           | EN 60529           | IP68                  |
| Material                                                      |                    | Stainless steel       |
| Weight                                                        | kg                 | 3                     |

## Options

| Article-No. | Description                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 107798      | ATEX 2014/34/EU, IECEx:<br>ex II 1 G/D, Ex ia IIC T6 Ga, Ex ia IIIC T80 °C Da, IP6X, -20 °C < Ta < +60 °C (zones gaz 0/1/2, dust 20/21/22) |
| 115049      | ATEX 2014/34/EU, IECEx:<br>ex II 1 D, Ex ta IIIC T125 °C Da, IP6X, -20 °C < Ta < +60 °C (zones dust 20/21/22)                              |
| 115048      | ATEX 2014/34/EU, IECEx: ex II 3 G, Ex nA IIC T6 Gc, -20 °C < Ta < +60 °C (zone gaz 2) <sup>1</sup>                                         |
|             | Gas discharge tube as surge protection (GDT option): 10 kA / 20 kV (8/20 μs) - IEC 61000-4/5                                               |
|             | Anti-rodent shielded cable                                                                                                                 |

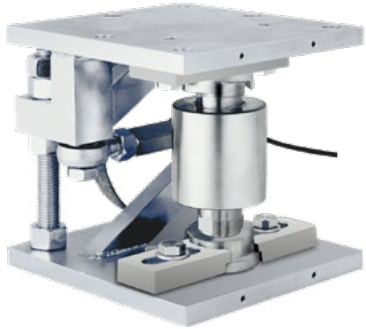
## Accessories

### Electrical Connection

| Article-No. | Description                                                                           |
|-------------|---------------------------------------------------------------------------------------|
| 10323       | Male cable connector KS6 (6-pin, Series 581) incl. mounting                           |
| 10320       | Male cable connector KSSH15 (15-pin) incl. mounting                                   |
| 43418       | Input connector ZA9612FS (ALMEMO) incl. sensor mounting and connector calibration     |
| 49205       | Input connector ZKD712FS (ALMEMO 202) incl. sensor mounting and connector calibration |

## Accessories (continued)

### Assembly kit

| Article-No. | Description                  | Material          |                                                                                       |
|-------------|------------------------------|-------------------|---------------------------------------------------------------------------------------|
| 105220      | Mounting kit Stabican 30t    | Zinc plated steel |    |
| 105219      | Mounting kit Stabican 30t    | Stainless steel   |                                                                                       |
| 111186      | Mounting kit STABICAN 60t    | Zinc plated steel |                                                                                       |
| 110653      | Cups kit LPC                 | Zinc plated steel |    |
| 108590      | Fastening and cups kit LPM   | Zinc plated steel |   |
| 111187      | Fastening and cups kit LPM-X | Stainless steel   |                                                                                       |
| 110654      | Self aligning kit LPS        | Zinc plated steel |  |



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