# BR016D

## Digital Compression Load Cell


OIML CE IP68 Digital

## Applications

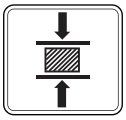

Truck Scales


Tank, Bunker, Silo Weighing


High Capacity Applications


Special Weighing


Industrial Processes


Testing Machines


Packing & Filling Applications

## Key Features

- Digital data output
- 20~50 t Capacities
- EU OIML R60 approved
- Nickel plated alloy steel / Stainless steel
- Protection class: IP68

BR016D state-of-the-art digital load cell provides accurate and precise measurement with very high - one billion resolution with its advanced electronic design. This load cell has been specially developed for vehicle scales and high-capacity industrial weighing applications, as well as service advantages such as easy installation and fast maintenance.

In weighing systems equipped with analogue load cells, disturbances such as cable and electromagnetic interference affects the low-level analogue output signals of the analogue load cells and cause measurement errors. The BR016D digital load cell eliminates all these measurement errors. Additionally, it prevents incorrect weighing in case of a possible load cell failure and enables easy and fast diagnostic of the malfunction with the relevant error code guidance.

Its hermetically sealed, stainless-steel structure with an IP68 protection class makes BR016D dependable even in the most demanding industrial environments. Moreover, the special designed upper and lower mounting parts offer the most effective load transfer to the load cell.

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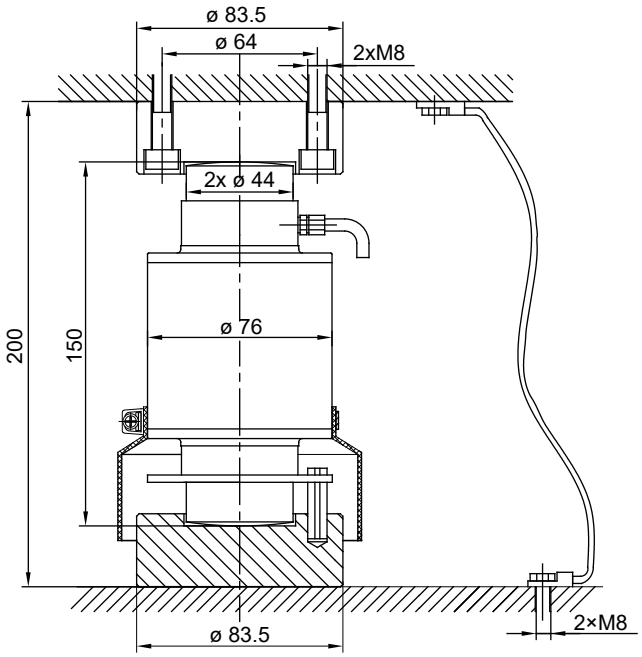
Industrial Weighing Systems

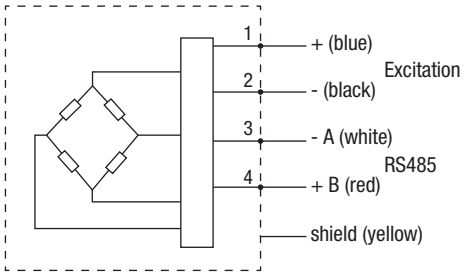
# Technical Specifications

| | | | |
|---|---|---|---|
| Model | | BR016D | |
| Capacity ($E_{max}$) | t | 20 / 25 / 30 / 40 / 50 | |
| Accuracy class according to OIML R60 | | C3 | C5 |
| Max. number of load cell verification intervals ($n_{LC}$) | | 3000 | 5000 |
| Ratio of minimum load cell verification interval Y= $E_{max}$ / ($v_{min}$) | | 10 000 | |
| Ratio of minimum dead load output return Z= $E_{max}$ / (2*DR) | | 5 000 | |
| Internal resolution (Max.) | Count @ $E_{max}$ | 8 000 000 | |
| Fraction $p_{LC}$ | | 0.8 | |
| Temperature effect on zero | % $E_{max}$/10°C | ≤ 0.015 | |
| Temperature effect on sensitivity | % $E_{max}$/10°C | ≤ 0.01 | |
| Combined error | % $E_{max}$ | ≤ 0.017 | |
| Zero balance | % $E_{max}$ | ≤ ± 1 | |
| Creep error (30 minutes) | % $E_{max}$ | ≤ 0.01 | |
| Safe load limit | % $E_{max}$ | 150 | |
| Ultimate load | % $E_{max}$ | 300 | |
| Communication | | RS485 , Baykon BDLC protocol | |
| Excitation, recommended | V (DC) | 12 | |
| Excitation voltage range | V (DC) | 10 - 16 | |
| Current consumption (at 12 V) | mA | 24 | |
| Compansated temperature range | °C | -10… + 40 | |
| Operating temperature range | °C | - 30… + 70 | |
| Material | | Nickel plated alloy steel | |
| Protection class | | Laser welded, IP68 | |
| Cable | | Lenght: 12 m (20-25 t) , 14 m (30t), 16 m (40,50 t) / Ø 5 mm | |

## Dimensions (mm)




## Color Codes




*(Specifications are subject to change without notice. 03 -03 / 2024)*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