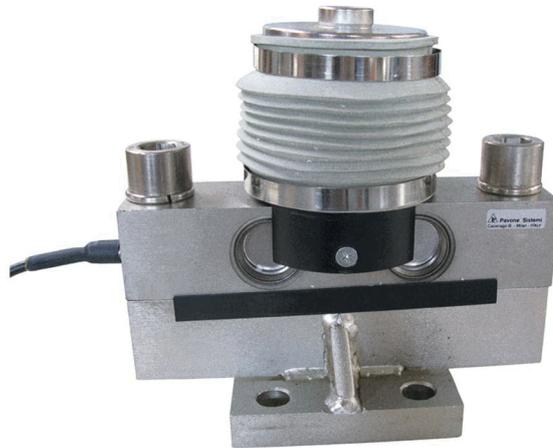


## General information

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The double shear beam load cell DSBZ guarantees high precision and is insensitive to lateral loads. For this reason, it is suitable for heavy industrial weighing, such as trucks and large heavy vehicles. The load cell DSBZ has a high degree of protection and guarantees excellent performance. It also comes with a 4-meter shielded cable 20 meters long.



All indicated data may be changed without notice.  
All the measures indicated are expressed in millimeters (mm).

## Technical specifications

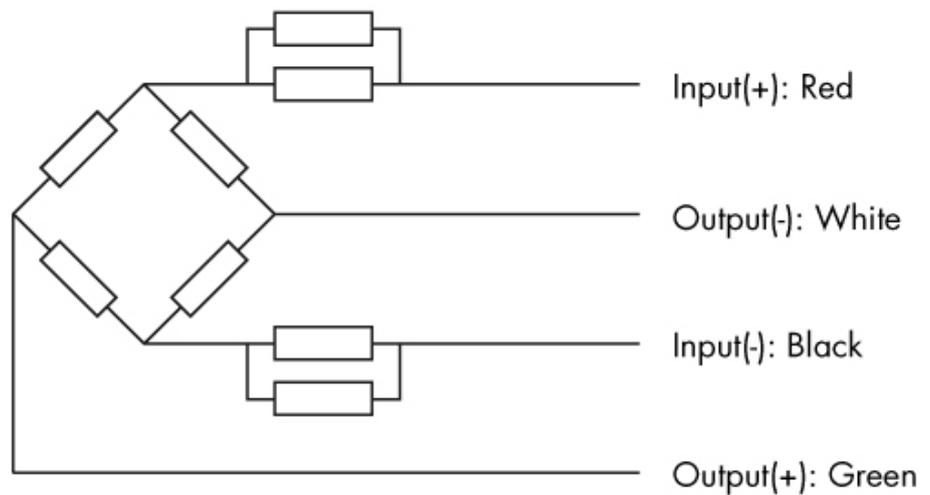
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|  |  |
|--|--|
| <b>Rated Load (RL):</b>                    | 10, 20, 25, 30, 40, 50 t                                 |
| <b>Combined error:</b>                     | < $\pm 0,023$ % RO                                       |
| <b>Repeatability:</b>                      | $\pm 0.01$ % RO  |
| <b>Creep (30 minutes):</b>                 | $\pm 0.02$ % RO  |
| <b>Safe overload:</b>                      | 150 % RL   |
| <b>Ultimate overload:</b>                  | 300 % RL   |
| <b>Safe sideload:</b>                      | 100 % RL   |
| <b>Material:</b>                           | Alloy steel  |
| <b>Degree of protection:</b>               | IP68   |
| <b>Deflection:</b>                         | 0.6 ÷ 1.4 mm   |
| <b>Compensated Temperature:</b>            | -10 ÷ +40 °C   |
| <b>Temperature range:</b>                  | -35 ÷ +65 °C   |
| <b>Temperature effect on zero balance:</b> | $\pm 0.018$ % RO/10°C                                    |
| <b>Temperature effect on output:</b>       | $\pm 0.012$ % on output/10°C                             |
| <b>Zero balance:</b>                       | < $\pm 1,5$ % RO   |
| <b>Insulation resistance:</b>              | > 5000 M Ohm   |
| <b>Input resistance:</b>                   | 700 $\pm$ 7 Ohm  |
| <b>Output resistance:</b>                  | 700 $\pm$ 7 Ohm  |
| <b>Recommended input:</b>                  | 5 ÷ 12 Vdc/Vac   |
| <b>ATEX certified version:</b>             | II1G Ex ia II1C T4; II1D Ex iaD 20 T73°C; II3G nL IIC T4 |

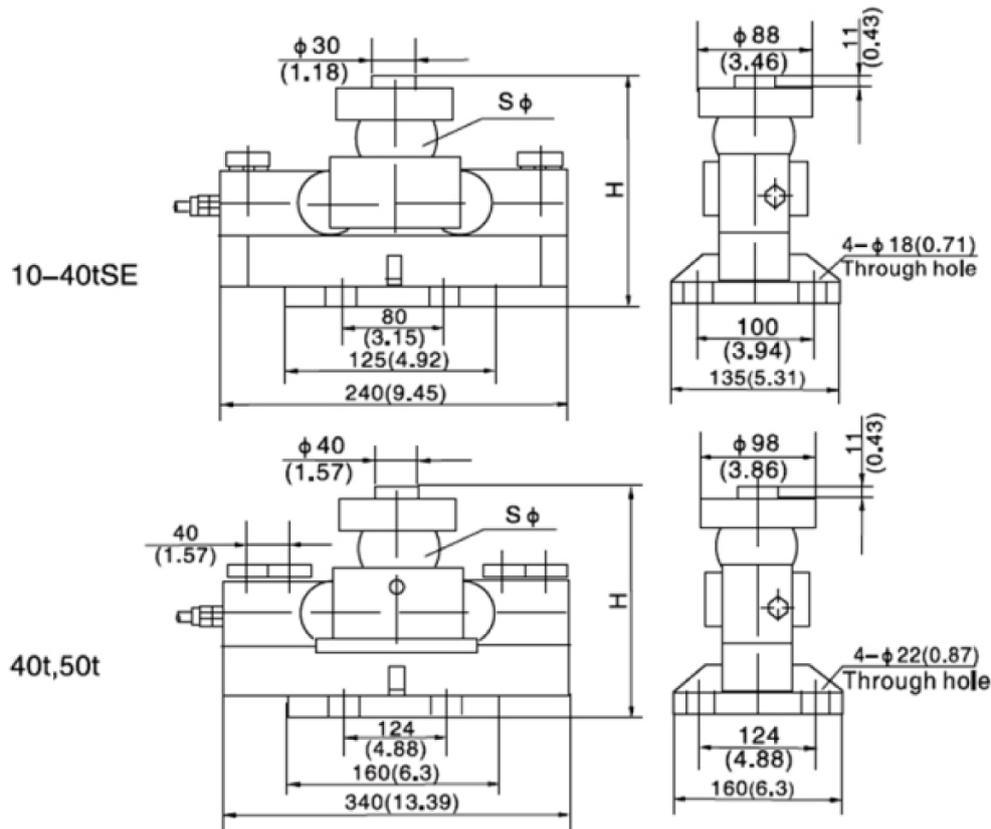
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**Wiring:**

- Shielded, 4 conductor cable: Ø 5,5mm.
- Standard cable length: 12m or 20m.
- Cable type and cable length or customer's own application are available on request.
- Shield not connected to element.



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| DIM/CAP | 10T        | 20T-40T SE | 40T, 50T    |
|---------|------------|------------|-------------|
| H       | 195 (7.68) | 225 (8.86) | 267 (10.51) |
| SØ      | 50 (1.97)  | 76 (2.99)  | 82 (3.22)   |

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