

# Lastcell BSP



50 till 5000 kg

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VÅGSERVICE

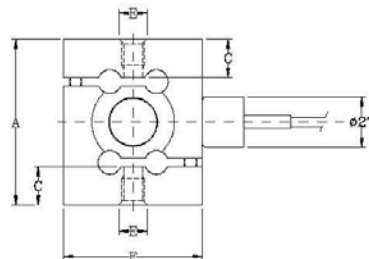
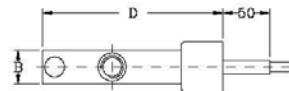
# BSP: SPECIFICATIONS

| Standard Capacities (=E <sub>max</sub> )                | Kg                | 50, 125, 250, 500, 1250, 2500, 5000 |                         |                         |
|---|-------------------|-------------------------------------|-------------------------|-------------------------|
| Accuracy Class According to OIML R-60                   |                   | C1                                  | C2                      | C3                      |
| Max. Number of Verification Intervals (n <sub>v</sub> ) |                   | 1000                                | 2000                    | 3000                    |
| Minimum Verification Interval (V <sub>min</sub> )       |                   | E <sub>max</sub> /5000              | E <sub>max</sub> /10000 | E <sub>max</sub> /10000 |
| Accuracy According to Type Designation                  | CC                | C1                                  | C2                      | C3                      |
| Combined Error  | %S                | ± 0.0500                            | ± 0.0230                | ± 0.0200                |
| Non-Repeatability                                       | %S                | ± 0.0200                            | ± 0.0100                | ± 0.0100                |
| Minimum Dead Load Output Return <sup>1</sup>            | %S                | ± 0.0500                            | ± 0.0250                | ± 0.0167                |
| Creep Error (30 Minutes) <sup>1</sup>                   | %S                | ± 0.0600                            | ± 0.0245                | ± 0.0245                |
| Creep Error (20-30 Minutes) <sup>1</sup>                | %S                | ± 0.0200                            | ± 0.0053                | ± 0.0053                |
| Temp. Effect on Min. Dead Load Output                   | %S/5°C            | ± 0.0250                            | ± 0.0070                | ± 0.0070                |
| Temp. Effect on Sensitivity                             | %S/5°C            | ± 0.0250                            | ± 0.0060                | ± 0.0050                |
| Minimum Dead Load                                       | %E <sub>max</sub> | 0                                   |                         |                         |
| Maximum Safe Over Load                                  | %E <sub>max</sub> | 150                                 |                         |                         |
| Ultimate Over Load                                      | %E <sub>max</sub> | 300                                 |                         |                         |
| Maximum Safe Side Load                                  | %E <sub>max</sub> | 100                                 |                         |                         |
| Deflection at E <sub>max</sub>                          | mm                | 0.28 max.                           |                         |                         |
| Excitation Voltage                                      | V                 | 5...15                              |                         |                         |
| Maximum Excitation Voltage                              | V                 | 18                                  |                         |                         |
| Rated Output (=S)                                       | mV/V              | 3 (2 for 2500 and 5000kg)           |                         |                         |
| Tolerance on Rated Output                               | mV/V              | ± 0.03 (± 0.02 for 2500 and 5000kg) |                         |                         |
| Zero Balance  | %S                | ± 1.0                               |                         |                         |
| Input Resistance  | Ω                 | 350 ± 3.5                           |                         |                         |
| Output Resistance                                       | Ω                 | 350 ± 3.5                           |                         |                         |
| Insulation Resistance                                   | MΩ                | > 5000                              |                         |                         |
| Compensated Temperature Range                           | °C                | -10...+40                           |                         |                         |
| Operating Temperature Range                             | °C                | -40...+80                           |                         |                         |
| Storage Temperature Range                               | °C                | -40...+90                           |                         |                         |
| Element Material (DIN)                                  |                   | Stainless Steel 1.4542              |                         |                         |
| Sealing (DIN 40.050 / EN 60.529)                        |                   | IP66 and IP68                       |                         |                         |
| ATEX options for potentially explosive atmospheres      |                   | II2G EEx ib IIC T4/T6, II2D or II3D |                         |                         |
| SC-Option (Current Calibration)                         |                   | Standard                            |                         |                         |

<sup>1</sup> Applies for the temperature range -10 to +40 °C

"SC-Option" The "Rated Output" and the "Output Resistance" are balanced in such a way, that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of multiple load cells.

Accuracy classes C1, C2 and C3 are in agreement with the OIML recommendation R-60. The BSP is certified for tension applications only. Correct mounting of the load cells is essential to ensure optimum performance. Cable length 10m. Further information is available on request.



| E <sub>max</sub> (kg) | 50,125  | 250  | 500   | 1250 | 2500,5000 |
|-----------------------|---------|------|-------|------|-----------|
| A                     | 84.3    | 88.9 | 88.9  | 95.2 | 120.6     |
| B                     | 23.9    | 18.0 | 18.0  | 24.1 | 36.6      |
| C thread              | 12.7    | 14.0 | 14.0  | 14.0 | 29.2      |
| D                     | 85.7    | 84.1 | 96.8  | 84.1 | 84.1      |
| E                     | M8x1.25 |      | M12x1 |      | M24x2     |
| F                     | 63.5    | 61.9 | 74.6  | 61.9 | 61.9      |

#### Cable specifications:

Cable length: 10m  
 Excitation + Green  
 Excitation - Black  
 Output + White  
 Output - Red  
 Shield Orange

Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened.

#### Attention:

All dimensions: mm.  
 Dimension tolerances according to ISO 2768m, unless otherwise specified.

Tension applications result in a negative output signal.

All specifications subject to change without notice

2/3/65/04 E

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