
SB8L beam load cell



product description

The SB8L bending beam offers all of the advantages of the SB8 but is designed for heavier duty applications. Capacities extend to 1000kg ideal for IBC bag filling applications or more general purpose industrial weight measurement in process industries. All stainless steel and hermetically sealed the SB8L is the ideal choice high accuracy industrial weighing machinery.

applications

IBC bagging machinery, conveyor scales, vessel and hopper weighing systems..

key features

Stainless steel construction

Hermetically sealed to IP68

High capacity range from 300kg to 1,000kg

High accuracy

approvals

OIML approval to C3 (Y = 12,000)

accessories

Compatible range of hardware

Compatible range of electronics



RoHS
compliant



specifications

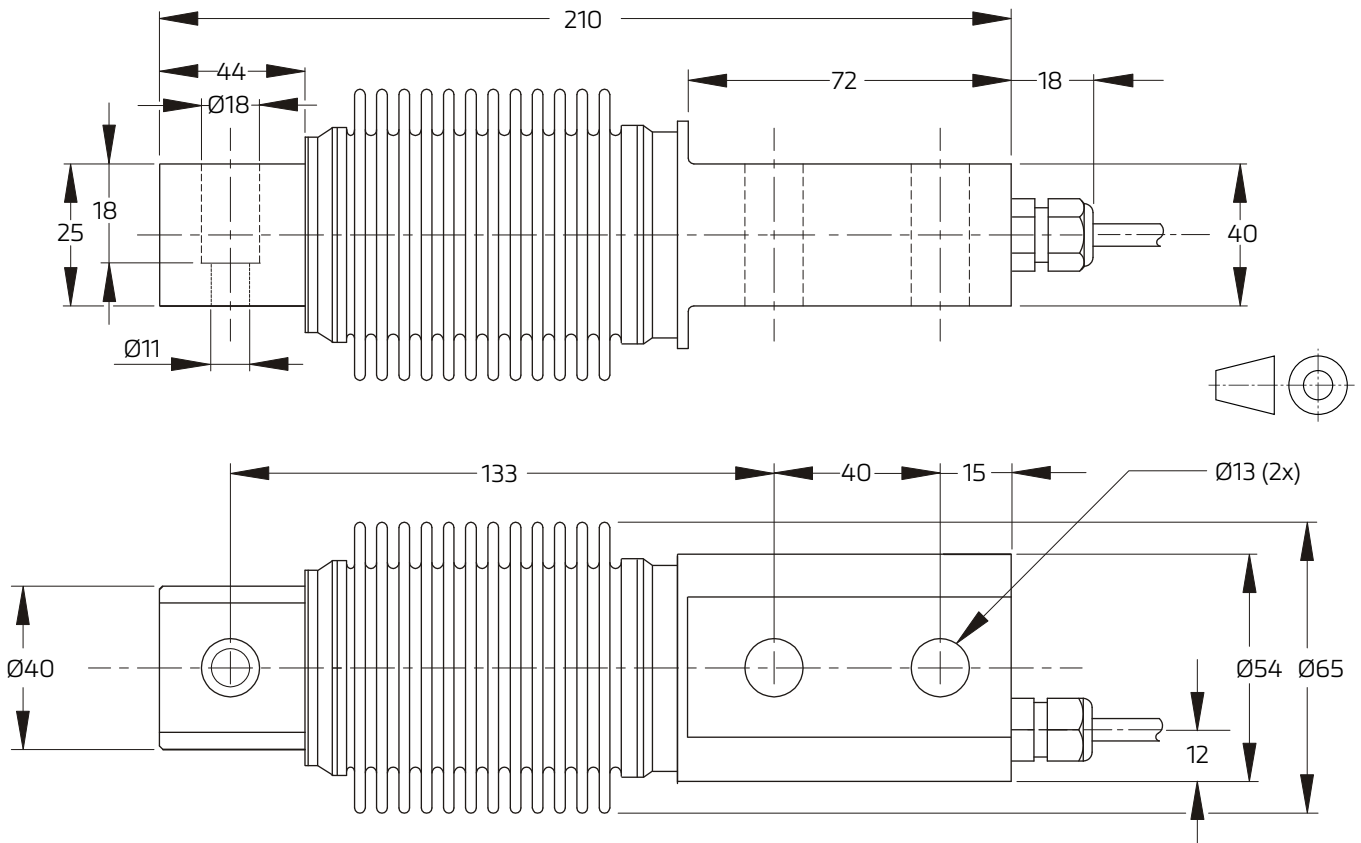
| | | | |
|---|--------------|----------------------------------|--------------------|
| Maximum capacity (E_{max}) | kg | 300 / 500 / 1,000 | |
| Minimum capacity (E_{min}) | kg | 0.67% * E_{max} | |
| Accuracy class according OIML R60 | | (GP) | C3 |
| Maximum number of verification intervals (n_{LC}) | | n.V. | 3,000 |
| Minimum load cell verification interval (v_{min}) | | n.V. | $E_{max} / 12,000$ |
| Temperature effect on minimum dead load output (TC_0) | %*RO/10°C | ± 0.0400 | ± 0.0140 |
| Temperature effect on sensitivity (TC_{RO}) | %*RO/10°C | ± 0.0200 | ± 0.0110 |
| Combined error | %*RO | ± 0.0500 | ± 0.0200 |
| Non-linearity | %*RO | ± 0.0400 | ± 0.0166 |
| Hysteresis | %*RO | ± 0.0400 | ± 0.0166 |
| Creep error (30 minutes) | %*RO | ± 0.0600 | ± 0.0250 |
| Rated output (RO) | mV/V | 2 ± 0.2% | |
| Zero balance | %*RO | ± 3 | |
| Excitation voltage | V | 5...12 | |
| Input resistance (R_{LC}) | Ω | 385 ± 20 | |
| Output resistance (R_{out}) | Ω | 350 ± 1 | |
| Insulation resistance (100 V DC) | MΩ | ≥ 5,000 | |
| Safe load limit (E_{lim}) | %* E_{max} | 125 | |
| Ultimate load | %* E_{max} | 300 | |
| Safe side load | %* E_{max} | 100 | |
| Compensated temperature range | °C | -10...+40 | |
| Operating temperature range | °C | -30...+50 | |
| Load cell material | | stainless steel 17-4 PH (1.4548) | |
| Protection according EN 60 529 | | IP68 (up to 2m water depth) | |
| Packet weight | kg | 2.4 | |

The limits for Non-Linearity, Hysteresis and TCRO are typical values.

The sum of Non-Linearity, Hysteresis and TCRO meets the requirements according to OIML R 60 with pLC=0.7.



product dimensions (mm)



Mounting bolts M12 8.8; torque 90 Nm. Torque value assumes oiled threads.

wiring

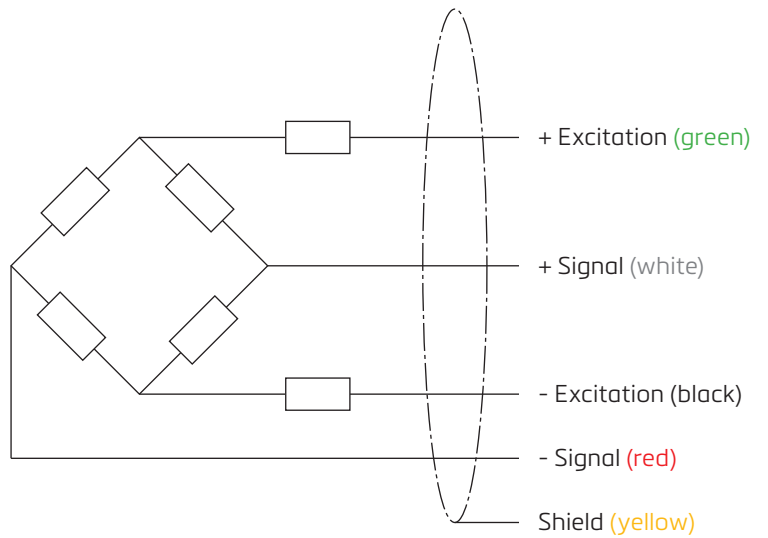
The load cell is provided with a shielded, 4 conductor cable (AWG 24).

Cable jacket polyurethane

Cable length: 3 m

Cable diameter: 5.8 mm

The shield is not connected to the load cell body



Specifications and dimensions are subject to change without notice.