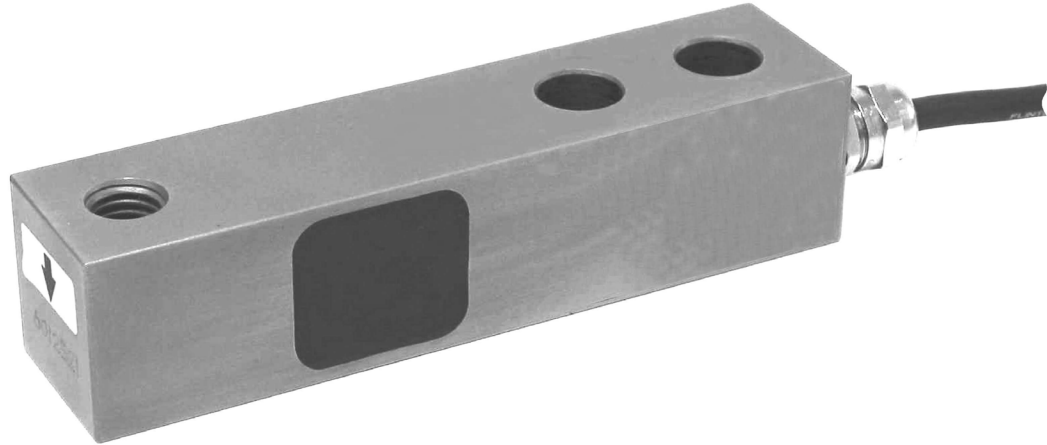


SB9 beam load cell

Scales **Store**



Product description

Industry standard size, bolt-hole centres and wiring for industrial platform scales that do not require full hermetically sealed load cells. The 250kg capacity SB9 is particularly useful for manufacturing low capacity and yet rugged industrial weighing equipment such as platform scales or pallet truck weighing systems. The stainless-steel construction is a more robust solution compared to alloy steel potted load cells.

Applications

Industrial platform scales, IBC bagging machinery, pallet truck scales, vessel and tank weighing systems.

Key features

Stainless steel construction

Environmentally sealed by potting to IP67

High accuracy, calibration in mV/V/Ω

Low profile design ideal for industrial platform scales

Capacities from 250kg to 2,000kg

Approvals

OIML approval to C3 (Y = 10,000)

ATEX and FM hazardous area approval in preparation

Accessories

Compatible range of hardware

Compatible range of electronics

Options

Blind-hole or through-hole version



RoHS
compliant



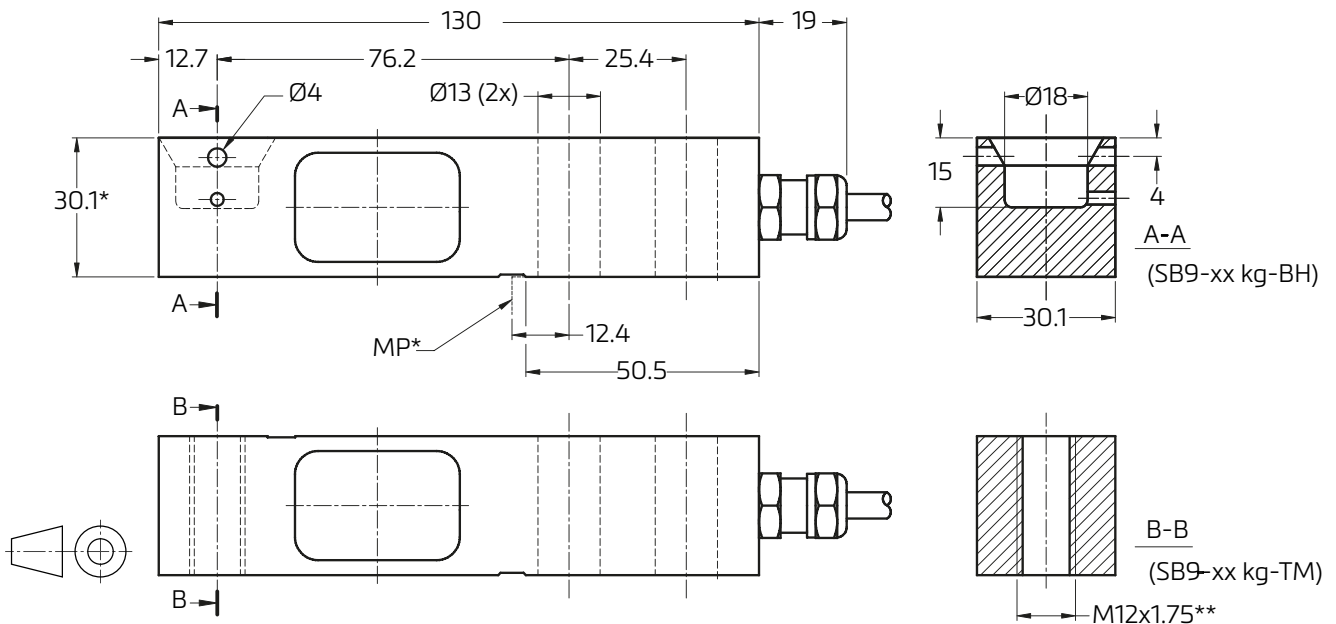
Specifications

| | | | |
|---|--------------|----------------------------------|--------------------|
| Maximum capacity (E_{max}) | kg | 250 / 500 / 1,000 / 2,000 | |
| Accuracy class according to OIML R60 | | (GP) | C3 |
| Maximum number of verification intervals (n_{max}) | | n.a. | 3,000 |
| Minimum load cell verification interval (v_{min}) | | n.a. | $E_{max} / 10,000$ |
| 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 | ± 0.0100 |
| Combined error | %*RO | ± 0.0500 | ± 0.0200 |
| Non-linearity | %*RO | ± 0.0400 | ± 0.0166 |
| Hysteresis | %*RO | ± 0.0400 | ± 0.0166 |
| Creep error (30 minutes) / DR | %*RO | ± 0.0600 | ± 0.0166 |
| Rated Output (RO) | mV/V | 2 ± 0.1% | |
| Calibration in mV/V/Ω (A...I classified) | % | ± 0.05 (± 0.005) | |
| Zero balance | %*RO | ± 5 | |
| Excitation voltage | V | 5...15 | |
| Input resistance (R_{LC}) | Ω | 380 ± 10 | |
| Output resistance (R_{out}) | Ω | 350 ± 3 | |
| Insulation resistance (100 V DC) | MΩ | ≥ 5,000 | |
| Safe load limit (E_{lim}) | %* E_{max} | 200 | |
| Ultimate load | %* E_{max} | 300 | |
| Safe side load | %* E_{max} | 100 | |
| Compensated temperature range | °C | -10...+40 | |
| Operating temperature range | °C | -40...+65 (ATEX -40...+60) | |
| Load cell material | | stainless steel 17-4 PH (1.4548) | |
| Sealing | | potted | |
| Protection according EN 60 529 | | IP67 | |
| Packet weight | kg | Approx. 1.2 kg | |

The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.

The sum of Non-linearity, Hysteresis and TC_{RO} meets the requirements according to OIML R60 with $p_{LC}=0.7$.

Product dimensions (mm)



For maximum capacity from 250 kg to 1000 kg: Mounting bolts M12 8.8; torque 90 Nm
 For maximum capacity of 2 000 kg: Mounting bolts M12 10.9; torque 120 Nm
 Torque values assume oiled thread.

* Capacity 2000kg: height = 36 mm

** Unified thread 1/2-20 UNF is available. Type designation SB9-xx kg-TU

MP* - Edge of mounting plate

Wiring

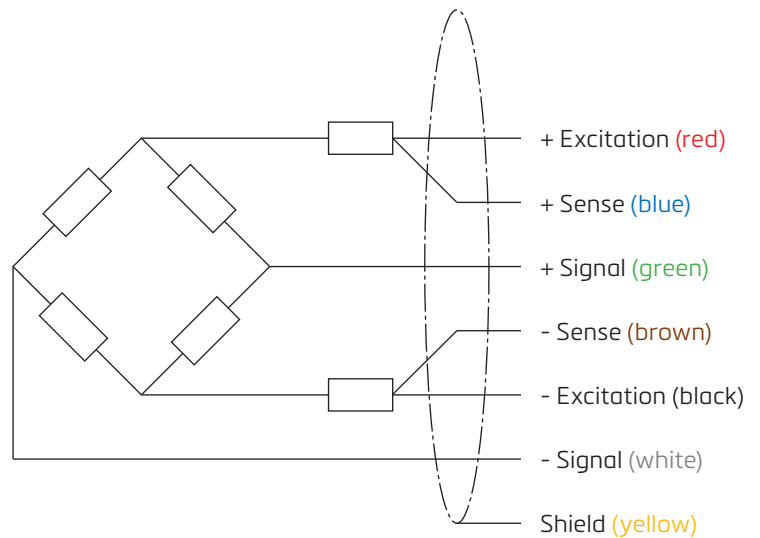
The load cell is provided with a shielded, 6 conductor cable (AWG 26).

Cable jacket polyurethane

Cable length: 3 m

Cable diameter: 5.8 mm

The shield is connected to the load cell body



Specifications and dimensions are subject to change without notice.