

Type BK2 Load Cell



Flintec load cells are designed to meet the most stringent accuracy requirements.

BK2 load cells are available in the capacities from 200 kg to 2000 kg and include Accuracy Classifications GP and C3 according to OIML R 60.

They offer stainless steel construction and improved potting, making them suitable for use in tough industrial environments.

These load cells allow very low profile platform design and offer advantages in all kinds of weighing applications.

Load introduction via threaded hole or through hole.

The Flintec calibration technique (in $\text{mV/V}/\Omega$) avoids time consuming corner calibration in multiple load cell systems.

Important Features

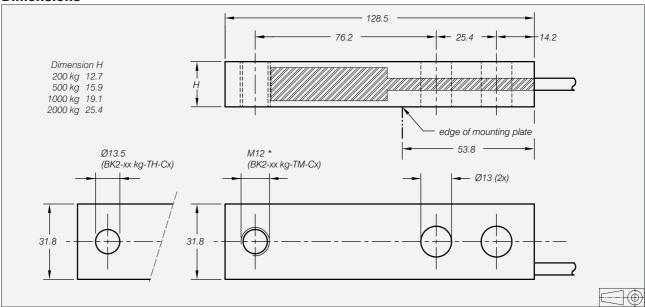
- Capacities: 200 to 2000 kg.
- High accuracy.
- Stainless steel construction.
- Protection IP 67.
- Very low profile.
- High input resistance: 1100 Ω .
- Calibration in mV/V/ Ω .
- Factory mutual approved.



BK2 Specifications

| Maximum capacity(E _{max}) | kg | 200 / 500 / 1000 / 2000 | 500 / 1000 / 2000 |
|---|-------------------|----------------------------------|-------------------------|
| Rated Output (=RO) | mV/V | 2 ± 0.1% | |
| Calibration in mV/V/Ω (AI classified) | %RO | ≤ ± 0.05 (≤ ± 0.005) | |
| Accuracy class according to OIML R 60 | | (GP) | C3 |
| Maximum number of verification intervals(n _{max}) | | n.a. | 3000 |
| Minimum load cell verification interval(v _{min}) | | n.a. | E _{max} /10000 |
| Combined error | %RO | ≤ ± 0.040 | ≤ ± 0.020 |
| Creep error (30 minutes) | %RO | ≤ ± 0.060 | ≤ ± 0.024 |
| Temperature effect on minimum dead load output | %RO/°C | ≤ ± 0.0040 | ≤ ± 0.0012 |
| Temperature effect on sensitivity | %/°C | ≤ ± 0.0020 | ≤ ± 0.0011 |
| Excitation voltage | V | 515 | |
| Zero balance | %RO | ≤ ± 1.0 | |
| Input resistance | Ω | 1106 ± 5 | |
| Output resistance | Ω | 1000 ± 1 | |
| Insulation resistance | MΩ | ≥ 5000 | |
| Compensated temperature range | °C | -10+40 | |
| Operating temperature range | °C | -20+65 | |
| Safe load limit(E _{lim}) | %E _{max} | 200 | |
| Ultimate load | %E _{max} | 300 | |
| Safe side load | %E _{max} | 100 | |
| Load cell material | | stainless steel 17-4 PH (1.4548) | |
| Sealing | | potted | |
| Protection according DIN 40.050 | | IP 67 | |

Dimensions



All dimensions in mm. Dimensions and specifications are subject to change without notice.

Mounting bolts for 200 to 1000 kg: M12 8.8 / torque 90 Nm; for 2000 kg: M12 10.9 / torque 120 Nm. Torque values assume oiled threads.

* Unified thread ½-20 UNF is available (BK2-xx kg-TU-Cx).

Wiring

• The load cell is provided with a shielded, 4 conductor cable.

Cable length: 3 m.Cable diameter: 5 mm.



