

Single-Ended Beam Load Cell

FEATURES

- Capacities: 500 kg, 1T, 2T, and 5T
- Low profile, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R60, 6000d
- 1000 Ohm bridge impedance
- Current calibration output (SC) ensures easy and accurate connection of multiple load cells
- Integral mounting step
- Optional
 - ATEX versions are available for use in potentially explosive atmospheres, caused by gas or dust

APPLICATIONS

- Platform scales
- Belt scales
- · Overhead track scales
- Silo hopper weighing

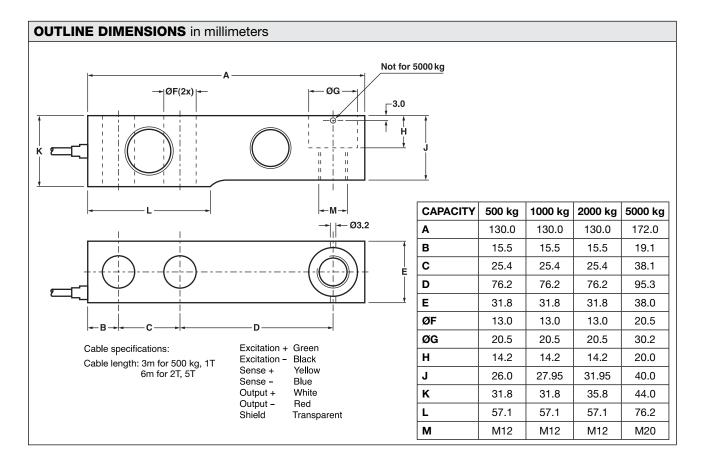


DESCRIPTION

The ACB is a high performance stainless steel beam type load cell. An integral mounting step removes the need for spacer plates and ensures optimum "bolt down" conditions.

This product is suitable for small and medium platform scales, hybrid scales, pallet weighers, and process weighing.

The fully welded construction and the cable entry ensure that this product can be used successfully in harsh environments found in the food, chemical, and allied process industries.



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Single-Ended Beam Load Cell

| SPECIFICATIONS | | | | |
|---|------------------------|--------------------------|--------------------------|---------------------|
| PARAMETER | VALUE | | | UNIT |
| Standard capacities (E _{max}) | 500, 1000, 2000, 5000 | | | kg |
| Accuracy class according to OIML R-60 | Non-Approved | C3 | C6 (1) | |
| Maximum no. of verfication intervals (n) | | 3000 | 6000 | |
| Minimum verification interval, (V _{min} E _{max/} Y) | | E _{max} /6000 | E _{max} /12,000 | |
| Minimum verification interval, Type MR | | E _{max} /15,000 | E _{max} /20,000 | |
| Rated output (=S) | 2 | | | mV/V |
| Tolerance on rated output | 0.02 | | | ±mV/V |
| Zero balance | 1.0 | | | ±% FSO |
| Combined error | 0.0500 | 0.0230 | 0.0120 | ±% FSO |
| Non-repeatability | 0.070 | 0.035 | 0.018 | ±% FSO |
| Minimum dead load output return | 0.0500 | 0.017 | 0.008 | ±% of applied load |
| Creep error (30 minutes) | 0.0600 | 0.0245 | 0.012 | ±% of applied load |
| Temperature effect on minimum dead load | 0.0250 | 0.0117 | 0.0058 | ±% FSO/5°C |
| Temperature effect on sensitivity | 0.0250 | 0.0088 | 0.0045 | ±% applied load/5°C |
| Maximum safe over load | 150 | | | % E _{max} |
| Ultimate over load | 300 | | | % E _{max} |
| Maximum safe side load | 100 | | | % E _{max} |
| Deflection at E _{max} | 0.20, 0.20, 0.22, 0.31 | | | mm |
| Excitation voltage | 5 to 12 | | | V |
| Maximum excitation voltage | 15 | | | V |
| Input resistance | 1000±50 | | | Ω |
| Output resistance | 1000±10 | | | Ω |
| Insulation resistance | >5000 | | | ΜΩ |
| Compensated temperature range | -10 to +40 | | | °C |
| Operating temperature range | -40 to +80 | | | °C |
| Storage temperature range | -40 to +90 | | | °C |
| Element material (DIN) | Stainless steel 1.4542 | | | |
| Sealing (DIN 40.050 / EN60.529) | IP66 and IP68 | | | |
| SC-Version (current calibration) | Standard | | | |
| Recommended torque on fixation bolts | 150 | | | N*m |

^{(1) 500} kg is approved to C3 only

FSO-Full Scale Output

SC-version: 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 the load cells.

All specifications subject to change without notice.