

PENKO Engineering BV

The Leading Experts In Weighing & Dosing

3kg-200kg 1022

Aluminum Single-Point Load Cell

FEATURES

- Capacities: 3–200 kgOnly 22 mm high
- Aluminum construction
- Single-point 350 x 350 mm platform
- IP66 protection
- OIML R60 and NTEP approved
- Optional
 - o ATEX, FM and IECEx approvals available
 - o Symmetric configuration available

APPLICATIONS

- Bench scales
- · Counting scales
- Grocery scales

DESCRIPTION

Model 1022 is a low profile single-point load cell designed for direct mounting in low cost weighing platforms.

Its small physical size, combined with high accuracy and aluminum construction, makes this low cost load cell ideally suited for retail, bench and counting scales.









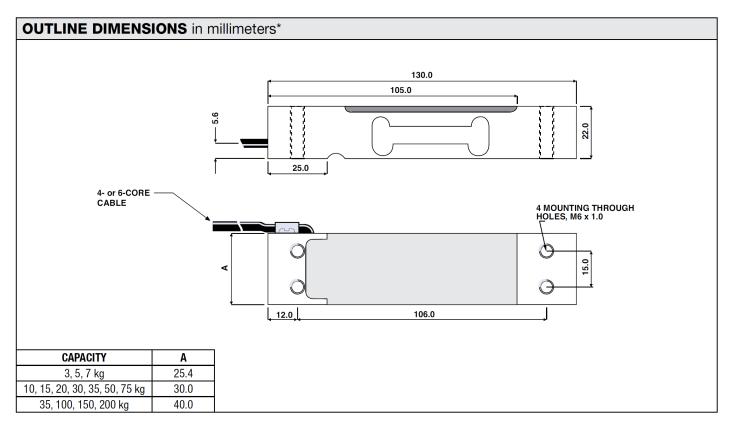






Using 1022 load cells simplifies scale construction, which results in significant parts and labor savings.

Model 1022 is available in a range of capacities, from 3 to 150 kg approved to OIML R60 (4000d), from 20 to 150 kg approved to OIML R60 (6000d), while 3 to 100 kg approved to NTEP (5000d, single). Environmental protection to IP66 is provided as standard. For hazardous environments, ATEX approved versions are available.



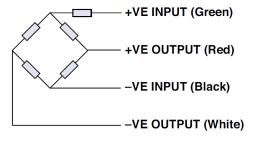
^{*} Double-sided bonding is available on request

| SPECIFICATIONS | | | | | |
|---|--|--------------|--------|---------|-------------------------|
| PARAMETER | VALUE | | | | UNIT |
| Rated capacity—R.C. (E _{max}) | 3, 5, 7, 10, 15, 20, 30, 35, 50, 100, 150, 200*** | | | | kg |
| NTEP/OIML accuracy class | NTEP | Non-Approved | C3* | C4 | |
| Maximum no. of intervals (n) | 5000 single** | 1000 | 3000 | 4000 | |
| $Y = E_{max}/V_{min}$ | 10000 | 1400 | 6000 | 10000 | Maximum available 12000 |
| Rated output – R.O. | 2.0 | | | | mV/V |
| Rated output tolerance | 0.2 | | | | ±mV/V |
| Zero balance | 0.1 | | | | ±mV/V |
| Zero return, 30 min. | 0.01 | 0.05 | 0.0170 | 0.0125 | ±% of applied load |
| Total error (per OIML R60) | 0.0200 | 0.03 | 0.0200 | 0.0150 | ±% of rated output |
| Temperature effect on zero | 0.0014 | 0.0100 | 0.0023 | 0.0014 | ±% of rated output/°C |
| Temperature effect on output | 0.0010 | 0.0030 | 0.0010 | 0.00075 | ±% of rated output/°C |
| Eccentric loading error | 0.0057 | 0.0085 | 0.0057 | 0.0042 | ±% of rated load/cm |
| Temperature range, compensated | -10 to +40 | | | | °C |
| Temperature range, safe | -30 to +70 | | | | °C |
| Maximum safe central overload | 150 | | | | % of R.C. |
| Ultimate central overload | 300 | | | | % of R.C. |
| Excitation, recommended | 10 | | | | VDC or VAC RMS |
| Excitation, maximum | 15 | | | | VDC or VAC RMS |
| Input impedance | 415±15 | | | | Ω |
| Output impedance | 350±3 | | | | Ω |
| Insulation resistance | >2000 | | | | ΜΩ |
| Cable length | 0.5, other lengths available | | | | m |
| Cable type | 4 or 6 wire, PVC, single floating screen or grounded to element body | | | | Standard |
| Construction | Aluminum | | | | |
| Environmental protection | IP66 | | | | |
| Platform size (max.) | 350 × 350 | | | | mm |
| Recommended torque | Up to 30 kg: 7.0 35 kg and up: 10.0 | | | | N*m |

^{*50%} utilization

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM**** (Unbalanced bridge configuration)



**** Balanced bridge available with 6 sense wires



^{**}Also available at 50% utilization

^{*** 150-200} kg are not approved by NTEP, 200 kg is not approved by OIML