



PENKO Engineering BV

The Leading Experts In Weighing & Dosing

50kg-1500kg

1250

Aluminum High Capacity Single-Point Load Cell

FEATURES

- Capacities 50–1500 kg
- Aluminum construction
- Single-point 800 x 800 mm platform
- OIML R60 and NTEP approved
- IP65 protection
- Available with metric and UNC threads
- **Optional**
 - EEx ia IIC T4 hazardous area approval
 - FM approval available
 - IP67 option available



APPLICATIONS

- Large platform scales
- Hanging scales
- Check weighing

DESCRIPTION

The Model 1250 is a single-point load cell designed for direct mounting of large platforms.

This product is a cost-effective load cell for use on counting, weighing, bench or floor scale products.

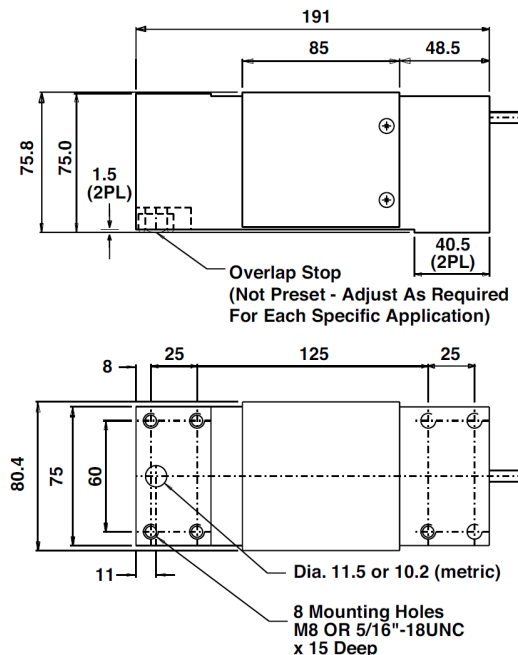
This high accuracy load cell is approved to OIML R60, NTEP and other stringent approval standards. Suitable

for use in hazardous environments, this load cell can be provided with European approval to EEx ia IIC T4 and are FM approved to class I, II, III, Division I.

A special humidity-resistant protective coating assures long-term stability over the entire compensated temperature range.

The two additional sense wires, sample the bridge supply voltage at the load cell. Complete compensation of change in the lead wires resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

OUTLINE DIMENSIONS in millimeters



| SPECIFICATIONS | | | | |
|---|--|--------------|--------|-----------------------|
| PARAMETER | VALUE | | | UNIT |
| Rated capacity – R.C. (E _{max}) | 50, 75, 100, 150, 200, 250, 300, 500, 635, 750, 1000, 1500 | | | kg |
| NTEP/OIML accuracy class | NTEP | Non-Approved | C3* | |
| Maximum no. of intervals (n) | 5000 single | 1000 | 3000 | |
| Y = E _{max} /V _{min} | 10000 | 1400 | 10000 | Max. available |
| Rated output – R.O. | 2.0 | | | mV/V |
| Rated output tolerance | 0.2 | | | ± mV/V |
| Zero balance | 0.2 | | | ± mV/V |
| Zero return, 30 min. | 0.0250 | 0.0300 | 0.0170 | ±% of applied load |
| Total error (per OIML R60) | 0.0200 | 0.0500 | 0.0200 | ±% of rated output |
| Temperature effect on zero | 0.0023 | 0.0100 | 0.0023 | ±% of rated output/°C |
| Temperature effect on output | 0.0010 | 0.0030 | 0.0010 | ±% of applied load/°C |
| Eccentric loading error | 0.0033 | 0.0050 | 0.0033 | ±% of rated load/cm |
| Temperature range, compensated | -10 to +40 | | | °C |
| Temperature range, safe | -20 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 | >5000 | | | MΩ |
| Cable length | 3.0 | | | m |
| Cable type | 6-wire, braided, Polyurethane, floating screen | | | Standard |
| Construction | Plated (anodized) aluminum | | | |
| Environmental protection | IP65** | | | |
| Platform size (max) | 800 x 800*** | | | mm |
| Recommended torque | Up to 1000 kg: 16.0 1500 kg: 32.0 | | | N*m |

* 50% utilization

3500 divisions also available

** Available also in IP67

*** 635–1500 kg capacities: platform size 600 x 600 mm

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM (Balanced temperature compensation)

