

Aluminum High Capacity Single Point Load Cell



FEATURES

- Capacities 50 - 1500kg
- Aluminum construction
- Single point 600 x 600mm platform
- OIML R60 and NTEP approved
- IP65 protection
- Available with metric and UNC threads

OPTIONAL FEATURES

- EEx ia IIC T4 hazardous area approval
- FM approval available
- IP67 option available

DESCRIPTION

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

The 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, these load cells 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 longterm stability over the entire compensated temperature range.

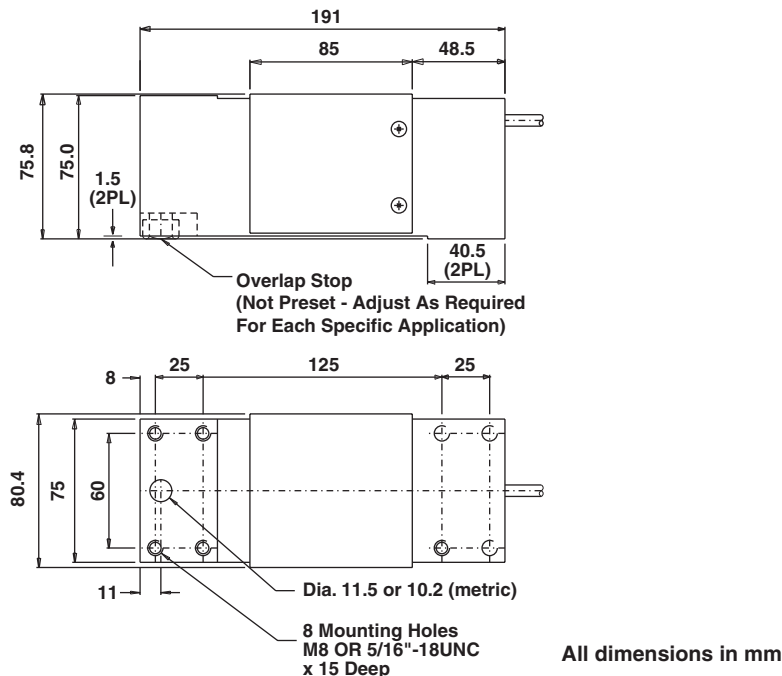
The two additional sense wires, sample the bridge supply voltage at the load cell. Complete compensation of change on the in the lead wires resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- Large platform scales
- Hanging scales
- Check weighing

OUTLINE DIMENSIONS in millimeters

Outline Dimensions All Capacities



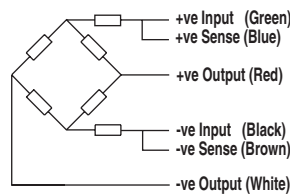


SPECIFICATIONS

| 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 | |
| $Y = E_{max}/V_{min}$ | 15000 | 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 | | | Ohms |
| Output impedance | 350±3 | | | Ohms |
| Insulation resistance | >2000 | | | Mega-Ohms |
| Cable length | 3.0 | | | m |
| Cable type | 6 wire, braided, Polyurethane, floating screen | | | Standard |
| Construction | Plated (anodized) Aluminum | | | |
| Environmental protection | IP65** | | | |
| Platform size (max) | 600 x 600 | | | mm |
| Recommended torque | Up to 1000kg: 16.0 1500kg 32.0 | | | N*m |

* 50% utilization
3500 divisions also available
** Available also in IP67

Wiring Schematic Diagram



BALANCED TEMPERATURE COMPENSATION

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