

Low Profile Single-Point Load Cell

FEATURES

- Capacities: 2–15 kg
- Aluminum construction
- Single-point 350 x 350 mm platform
- OIML R60
- IP65 protection
- Available with metric and UNC threads
- **Optional**
 - EEx ia IIC T4 hazardous area approval
 - FM approval available
 - IP67 protection available



APPLICATIONS

- Bench scales
- Counting scales
- Grocery scales

DESCRIPTION

Model 1030 is a single-point load cell designed for direct mounting of low cost, low capacity weighing platforms.

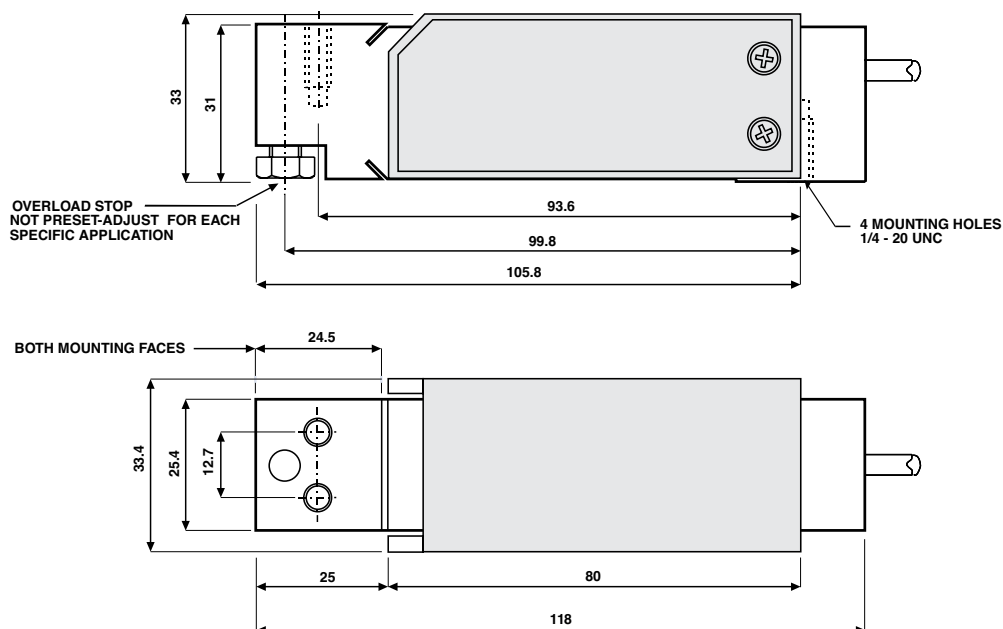
Its use in relatively large platforms, combined with high accuracy and low cost, makes this load cell ideally suited

for a wide range of weighing applications, including bench scales, laboratory, money counting and process weighing.

A special humidity resistant protective coating is available as an option which assures long-term reliability. Model 1030's built in overload stop can provide mechanical protection against overloading.

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

OUTLINE DIMENSIONS in millimeters



Low Profile Single-Point Load Cell

| SPECIFICATIONS | | | |
|---------------------------------|-------------------------------------|--------|-----------------------|
| PARAMETER | VALUE ⁽¹⁾ | | UNIT |
| OIML accuracy class | Non-Approved | C2.5 | |
| Maximum no. of intervals (n) | 1000 | 2500 | |
| $Y = E_{max}/V_{min}$ | 3333 | 7000 | |
| Rated output—R.C. (E_{max}) | 2 ⁽²⁾ , 3, 5, 7, 10, 15 | | kg |
| 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. | 0.0300 | 0.0170 | ±% of applied load |
| Total error | 0.0500 | 0.0200 | ±% of rated output |
| Temperature effect on zero | 0.0100 | 0.0040 | ±% of rated output/°C |
| Temperature effect on output | 0.0030 | 0.0010 | ±% of applied load/°C |
| Eccentric loading error | 0.0085 | 0.0057 | ±% of rated load/cm |
| Temp. range, compensated | -10 to +40 | | °C |
| Temp. 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 | 1.0 | | m |
| Cable type | 4 wire, PVC, single floating screen | | Standard |
| Construction | Plated (anodized) aluminum | | |
| Environmental protection | IP65 ⁽³⁾ | | |
| Platform size (max) | 350 x 350 | | mm |
| Recommended torque | 7.0 | | N*m |

⁽¹⁾ 1030 is a non-balanced bridge load cell

⁽²⁾ 2 kg is not OIML approved

⁽³⁾ IP67 available upon request

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM (Unbalanced bridge configuration)

