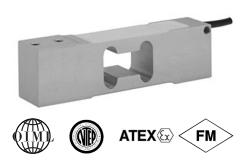
Tedea-Huntleigh



Low Profile Aluminum Load Cell



FEATURES

- Capacities 1- 250kg
- · Aluminum construction
- Single point 400 x 400mm platform
- OIML R60 and NTEP approved
- IP66 protection
- · Available with metric and UNC threads

OPTIONAL FEATURES

- EEx ia IIC T4 hazardous area approval
- FM approval available
- High stiffness version available for dynamic weighing applications

DESCRIPTION

Model 1042 is a low profile single point load cell designed for direct mounting in weighing platforms.

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

Capacities of 5kg and above are supplied as standard in anodized aluminum. This high accuracy load cell is approved to NTEP and other stringent approval standards, including OIML R60.

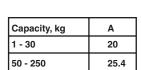
A humidity resistant protective coating assures long term stability over the entire compensated temperature range.

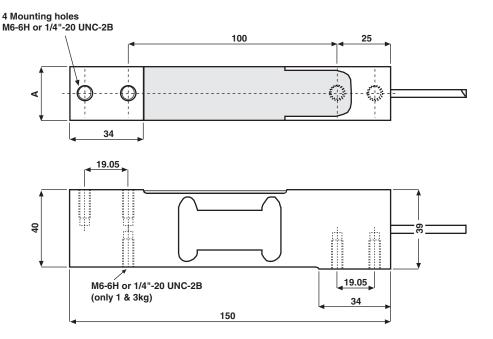
The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extenstion, is achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- Bench scales
- · Counting scales
- · Grocery scales

OUTLINE DIMENSIONS in mm





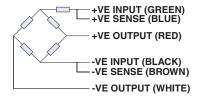


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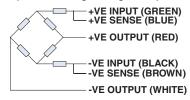
| SPECIFICATIONS | | | | | |
|---|--|--------------|--------|----------|-------------------------|
| PARAMETER | VALUE | | | | UNITS |
| Rated capacity-R.C. (E _{max}) | 1, 3, 5, 7, 10, 15, 20, 30, 50, 75, 100, 150, 250*** | | | | kg |
| NTEP/OIML Accuracy class | NTEP | Non-Approved | C3* | C6** | |
| Maximum no. of intervals (n) | 5000 single | 1000 | 3000 | 6000**** | |
| Y = E _{max} /V _{min} | 10000 | 1400 | 6000 | 10000 | Maximum available 20000 |
| 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. | 0.0330 | 0.0300 | 0.0170 | 0.0083 | ±% of applied load |
| Total Error (per OIML R60) | 0.0200 | 0.0500 | 0.0200 | 0.0100 | ±% of rated output |
| Temperature effect on zero | 0.0023 | 0.0100 | 0.0023 | 0.0014 | ±% of rated output/°C |
| Temperature effect on output | 0.001 | 0.0030 | 0.0010 | 0.00058 | ±% of applied load/°C |
| Eccentric loading error | 0.0049 | 0.0074 | 0.0049 | 0.0024 | ±% 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±20 | | | | Ohms |
| Output impedance | 350±3 | | | | Ohms |
| Insulation resistance | >2000 | | | | Mega-Ohms |
| Cable length | 1*** | | | | m |
| Cable type | 6wire, PVC, single floating screen | | | | Standard |
| Construction | Plated (anodize) aluminum | | | | |
| Environmental protection | IP66 | | | | |
| Platform size (max) | 400 x 400 | | | | mm |
| Recommended torque | Up to 30kg: 7.0 35kg & above: 10.0 | | | | N*m |

- 50% utilization
- ** 60% utilization
- *** 1kg is not approved by OIML, 150 and 250kg are not approved by NTEP
- *** 20 250kg are of balanced bridge configuration, and have side cable entry
- ***** 6000 divisions from 20kg to 100kg

WIRING SCHEMATIC DIAGRAM (unbalanced bridge configuration)



WIRING SCHEMATIC DIAGRAM (balanced bridge configuration)



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