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# **Stainless Steel Single-Point Load Cell**

#### **FEATURES**

- Capacities 7-100 kg
- Stainless steel construction
- Single-point 400 × 400 mm platform
- OIML R60 and NTEP approved
- IP66 protection
- Available with metric and UNC threads
- Optional
  - o ATEX, FM and IECEx approvals available

#### **APPLICATIONS**

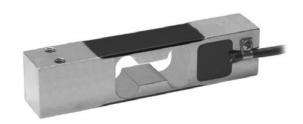
- Harsh environment small platforms
- · Harsh environment check weighing



Model 1130 is a low profile stainless steel single-point load cell ideally designed for direct mounting in bench and platform scales, packaging and process weighing equipment, and is built to perform in harsh environments.

The small physical size, combined with high accuracy and low cost, makes this load cell ideally suited for low profile

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









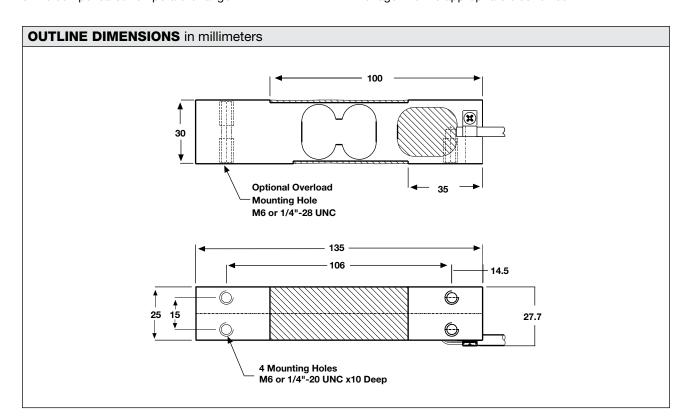






Constructed in stainless steel this high accuracy load cell is approved to stringent approval standards, e.g., OIML and NTEP.

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 acheived by feeding this voltage into the appropriate electronics.



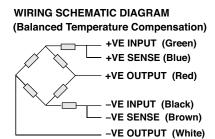


### Stainless Steel Single-Point Load Cell

| SPECIFICATIONS                          |                                     |              |                   |                       |
|---|-------------------------------------|--------------|-------------------|-----------------------|
| PARAMETER                               | VALUE                               |              |                   | UNIT                  |
| Rated capacity—R.C. (E <sub>max</sub> ) | 7, 10, 15, 20, 30, 50, 75, 100      |              |                   | kg                    |
| NTEP/OIML accuracy class                | NTEP <sup>(1)</sup>                 | Non-Approved | C3 <sup>(2)</sup> |                       |
| Maximum no. of intervals (n)            | 4000 single                         | 1000         | 3000(3)           |                       |
| $Y = E_{max}/V_{min}$                   | 15000                               | 2000         | 15000             |                       |
| 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)              | 0.0015                              | 0.0500       | 0.0200            | ±% of rated output    |
| Temperature effect on zero              | 0.0030                              | 0.0100       | 0.0023            | ±% of rated output/°C |
| Temperature effect on output            | 0.0008                              | 0.0030       | 0.0010            | ±% of applied load/°C |
| Eccentric loading error                 | 0.0035                              | 0.0074       | 0.0049            | ±% 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                         | 385±15                              |              |                   | Ω                     |
| Output impedance                        | 350±3                               |              |                   | Ω                     |
| Insulation resistance                   | >2000                               |              |                   | ΜΩ                    |
| Cable length                            | 1.5                                 |              |                   | m                     |
| Cable type                              | 6-wire, PVC, single floating screen |              |                   | Standard              |
| Construction                            | Stainless steel                     |              |                   |                       |
| Environmental protection                | IP66                                |              |                   |                       |
| Platform size (max.)                    | 400 × 400                           |              |                   | mm                    |
| Recommended torque                      | 13.0                                |              |                   | N*m                   |

<sup>&</sup>lt;sup>(1)</sup> Capacities 75 and 100kg are not NTEP approved

All specifications are subject to change without notice.



<sup>(2) 50%</sup> utilization

<sup>(3)</sup> Capacities 50-75 kg



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