High Capacity Single-Point Load Cell

## FEATURES

- Capacities $1000-2000 \mathrm{~kg}$
- Aluminum construction
- Single-point $1200 \times 1200$ mm platform
- OIML R60 and NTEP approved
- IP66 protection
- Available with metric threads
- Optional
- ATEX, FM and IECEx approvals available


## APPLICATIONS

- Very large platform scales
- Hanging scales
- Check weighing


## DESCRIPTION

Model 1320 is a high capacity single-point load cell designed for direct mounting of low profile, high capacity weighing platforms up to $1200 \times 1200 \mathrm{~mm}$.
Its large platform size simplifies the construction of floor scales, weigh bars, hanging scales and other types of weighing machines with a capacity up to 2000 kg .
All load cells are individually adjusted to eliminate corner errors, tested and calibrated to meet OIML specifications.


A special humidity resistant coating assures long-term reliability.
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



High Capacity Single-Point Load Cell

| SPECIFICATIONS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| PARAMETER | VALUE |  |  | UNIT |
| Rated capacity-R.C. ( $\mathrm{E}_{\text {max }}$ ) | 1000, 1500, 2000 |  |  | kg |
| NTEP/OIML accuracy class | NTEP | Non-Approved | C3 |  |
| Maximum no. of intervals ( n ) | 3000 single | 1000 | 3000* |  |
| $\mathbf{Y}=\mathrm{E}_{\text {max }} / \mathbf{V}_{\text {min }}$ | 1000 | 3333 | 10000 | Maximum available |
| Rated output-R.O. | 2.0 |  |  | $\mathrm{mV} / \mathrm{V}$ |
| Rated output tolerance | 0.2 |  |  | $\pm \mathrm{mV} / \mathrm{V}$ |
| Zero balance | 0.2 |  |  | $\pm \mathrm{mV} / \mathrm{V}$ |
| Zero return, 30 min . | 0.0330 | 0.0300 | 0.0170 | $\pm \%$ of applied load |
| Total error | 0.0200 | 0.0500 | 0.0200 | $\pm \%$ of rated output |
| Temperature effect on zero | 0.0040 | 0.0100 | 0.0023 | $\pm \%$ of rated output ${ }^{\circ} \mathrm{C}$ |
| Temperature effect on output | 0.0010 | 0.0030 | 0.0010 | $\pm \%$ of applied load $/{ }^{\circ} \mathrm{C}$ |
| Eccentric loading error | 0.0033 | 0.0025 | 0.0017 | $\pm \%$ of rated load/cm |
| Temperature range, compensated | -10 to +40 |  |  | ${ }^{\circ} \mathrm{C}$ |
| Temperature range, safe | -30 to +70 |  |  | ${ }^{\circ} \mathrm{C}$ |
| 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 | $415 \pm 15$ |  |  | $\Omega$ |
| Output impedance | $350 \pm 3$ |  |  | $\Omega$ |
| Insulation resistance | >2000 |  |  | $\mathrm{M} \Omega$ |
| Cable length | 5 |  |  | m |
| Cable type | 6 wire, braided, polyurethane, dual floating screen |  |  | Standard |
| Construction | Plated (anodized) aluminum |  |  |  |
| Environmental protection | IP66 |  |  |  |
| Recommended torque | 165.0 |  |  | $\mathrm{N}^{*} \mathrm{~m}$ |

* $50 \%$ utilization

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM


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