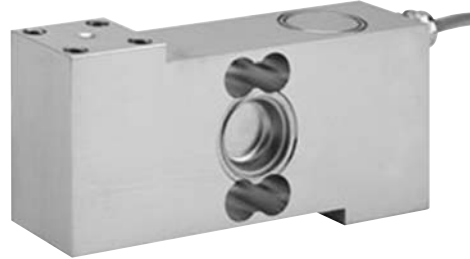


Hermetically Sealed Single-Point Load Cell

FEATURES

- Capacity range: 100–500 kg
- Stainless steel construction
- Single-point 600 x 600 mm platform
- OIML R60 and NTEP approved
- IP68 protection
- **Optional**
 - EEx ia IIC T6 hazardous area approval
 - FM approval available
 - Platform size 600 x 800 mm available



APPLICATIONS

- Food industry platforms
- Marine and hybrid scales
- Process weighing hoppers
- Harsh environment

DESCRIPTION

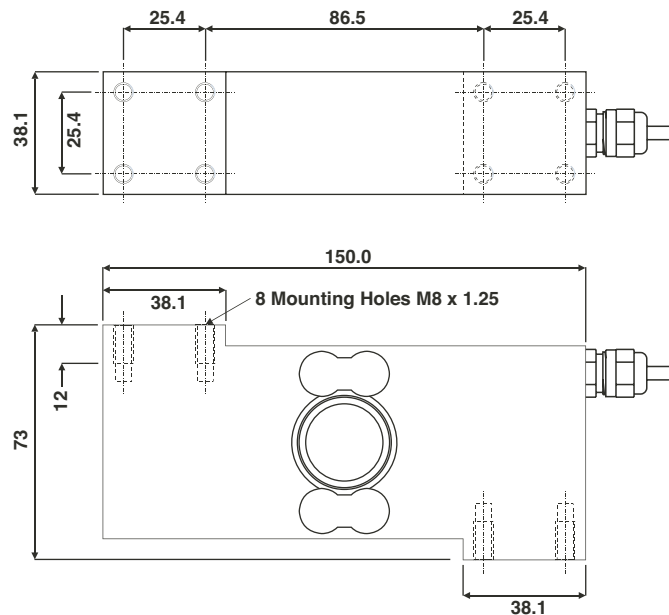
Model 1510 is a high accuracy single-point load cell ideally suited to industrial applications which undergo regular washdown, typically platforms, wall scales and other process weighing applications in the food industry.

Hermetically sealed against moisture, the all welded construction of the 1510 in combination with a polyurethane dual shielded cable, enables continuous operation in harsh environments while maintaining a high operating specification.

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



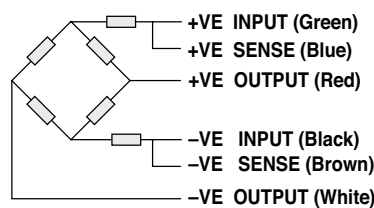
Hermetically Sealed Single-Point Load Cell

| SPECIFICATIONS | | | | | |
|-----------------------------------|---|--------------|--------|--------|-------------------------|
| PARAMETER | VALUE | | | | UNIT |
| Rated capacity—R.C. (E_{max}) | 100, 250, 500 | | | | kg |
| NTEP/OIML accuracy class | NTEP | Non-approved | C3* | C4* | |
| Maximum no. of intervals (n) | 5000 single | 1000 | 3000 | 4000 | |
| $Y = E_{max}/V_{min}$ | 11425 | 1400 | 10000 | 12000 | Maximum available 12500 |
| 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. | 0.0170 | 0.0060 | 0.0170 | 0.0130 | ±% of applied load |
| Total Error | 0.0200 | 0.0300 | 0.0200 | 0.0150 | ±% of rated output |
| Temperature effect on zero | 0.0023 | 0.010 | 0.0014 | 0.0011 | ±% of rated output/°C |
| Temperature effect on output | 0.001 | 0.0040 | 0.0010 | 0.0008 | ±% of applied load/°C |
| Eccentric loading error | 0.0016 | 0.0035 | 0.0011 | 0.0008 | ±% 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 | 380±10 | | | | Ω |
| Output impedance | 350±2 | | | | Ω |
| Insulation resistance | >2000 | | | | MΩ |
| Cable length | 3 | | | | m |
| Cable type | 6-wire, braided, polyurethane, dual floating screen | | | | Standard |
| Construction | Stainless steel | | | | |
| Environmental protection | IP68 | | | | |
| Recommended torque | 22.0 | | | | N*m |

* 35% utilization

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM



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