

Fluid Damped Single Point Load Cell



FEATURES

- Capacities 2 - 50kg
- Painted steel construction
- OIML R60 and NTEP approved
- IP66 protection
- Available with metric and UNC threads

OPTIONAL FEATURES

- Stainless steel construction
- Digital version available

DESCRIPTION

Model 240 is specifically designed to be used where fast acquisition of a stable load signal is paramount. The model 240's unique fluid damping system allows the load cell to be used in applications that previously required the use of LVDT's or similar types of measuring devices.

The model 240 brings load cell adaptability into check weighing and grading applications.

Approved to OIML R60 and NTEP standards, sealed to IP66 level and available in

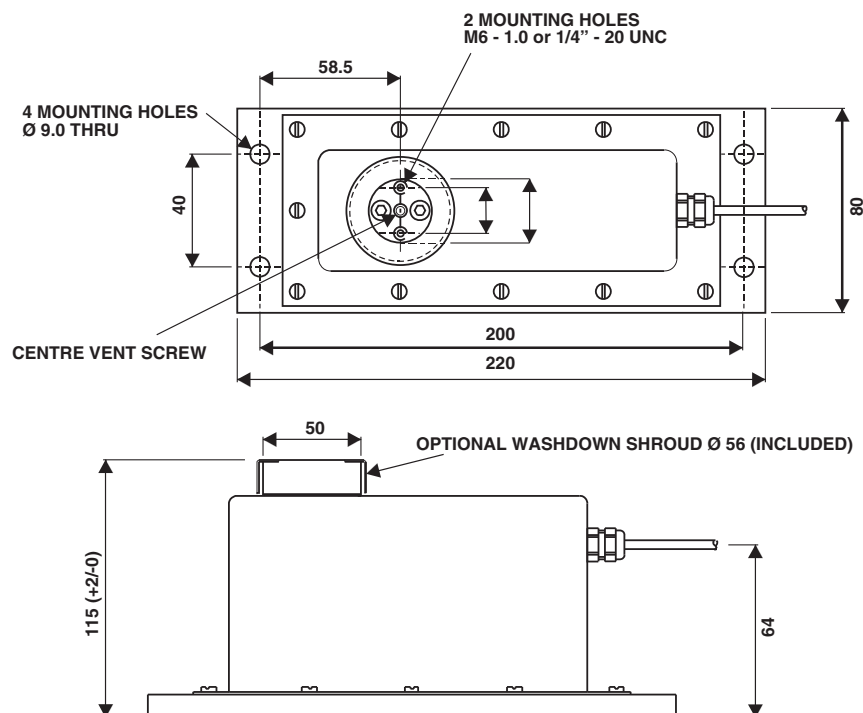
coated steel or stainless steel, the model 240 is suitable for most wash-down applications.

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.

APPLICATIONS

- Multi-head filling machines
- Check weighing
- Grading machines
- Liquid filling
- Dynamic weighing

OUTLINE DIMENSIONS in millimeters



SPECIFICATIONS

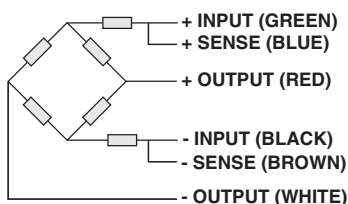
| PARAMETER | VALUE | | | UNIT |
|-----------------------------------|--|--------------|--------|-----------------------|
| Rated capacity-R.C. (E_{max}) | 2, 3, 5, 7, 10, 15, 20, 30, 50** | | | kg |
| OIML Accuracy class | NTEP | Non-Approved | C3* | |
| Maximum no. of intervals (n) | 5000 | 1000 | 3000 | |
| $Y = E_{max}/V_{min}$ | 12000 | 1750 | 9000 | Maximum available |
| Rated output-R.O. | 2.0 | | | mV/V |
| Rated output tolerance | 0.2 | | | ±mV/V |
| Zero balance | 0.1 | | | ±mV/V |
| Zero Return, 30 min. | 0.033 | 0.050 | 0.015 | ±% of applied load |
| Total Error | 0.050 | 0.025 | 0.015 | ±% of rated output |
| Temperature effect on zero | 0.0026 | NA | 0.0026 | ±% of rated output/°C |
| Temperature effect on output | 0.0010 | NA | 0.0010 | ±% of applied load/°C |
| Temperature range, compensated | -10 to +40 | | | °C |
| Temperature range, safe | -30 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 | | | Ohms |
| Output impedance | 350±3 | | | Ohms |
| Insulation resistance | >1000 | | | Mega-Ohms |
| Cable length | To suit | | | m |
| Cable type | 6 wire, braided, polyurethane, silicone gel impregnation | | | Standard |
| Construction | Painted mild steel*** | | | |
| Environmental protection | IP66 | | | |

* 50% utilization

** 2 & 3kg are not approved by NTEP or OIML

*** Stainless steel available

Wiring schematic diagram



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