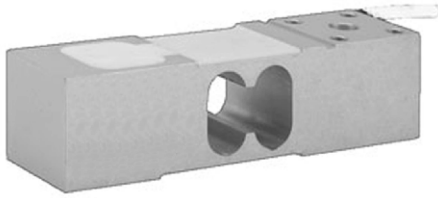


Aluminum Medium Capacity Single Point Load Cell


FEATURES

- Capacities 50 - 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

DESCRIPTION

Model 1242 is a high accuracy, low profile, low cost, two beam, single point load cell ideally suited for industrial application where space is limited. Typical applications include platforms, hanging scales and personal weighers.

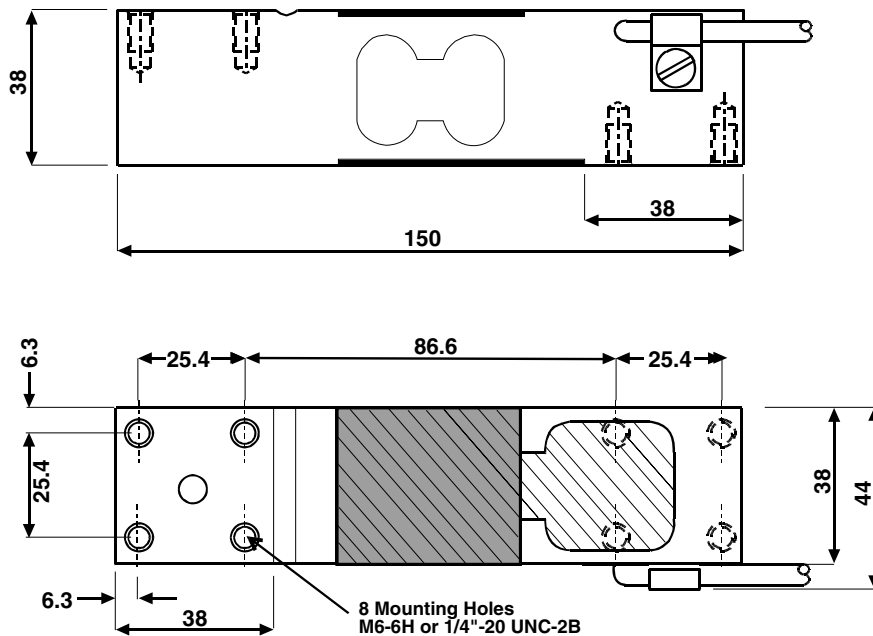
This high accuracy load cell is OIML R60 class C6 approved. For hazardous environments this load cell has EEx ia IIC T4 level of approval, as well as Factory Mutual approval.

A special 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 extension can be achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- Small platforms
- Hanging scales
- Personal scales

OUTLINE DIMENSIONS in millimeters


Model 1242

Vishay Tedea-Huntleigh Aluminum Medium Capacity Single Point Load Cell



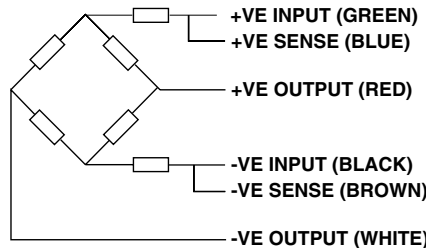
SPECIFICATIONS

| PARAMETER | VALUE | | | | UNIT |
|-----------------------------------|-------------------------------------|--------------|--------|---------|-----------------------|
| Rated capacity-R.C. (E_{max}) | 50, 100, 150, 200, 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 | Max. available |
| 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 | 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 | 0.0010 | 0.0030 | 0.0010 | 0.00058 | ±% of applied load/°C |
| Eccentric loading error | 0.0049 | 0.0085 | 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±15 | | | | Ohms |
| Output impedance | 351±5 | | | | Ohms |
| Insulation resistance | >2000 | | | | Mega-Ohms |
| Cable length | 1.5 | | | | m |
| Cable type | 6 wire, PVC, single floating screen | | | | Standard |
| Construction | Plated (Anodize) aluminum | | | | |
| Environmental protection | IP66 | | | | |
| Platform size (max) | 400 x 400 | | | | mm |
| Recommended torque | 10.0 | | | | N*m |

* 50% utilization

** 60% utilization

WIRING SCHEMATIC DIAGRAM (BALANCED TEMPERATURE COMPENSATION)



VISHAY TRANSDUCERS (VT) SALES OFFICES

VT Americas
City of Industry, CA
PH: +1-626-858-8899
FAX: +1-626-332-3418
vt.us@vishaymg.com

VT Netherlands
Breda
PH: +31-76-548-0700
FAX: +31-76-541-2854
vt.nl@vishaymg.com

VMG UK
Basingstoke
PH: +44-125-646-2131
FAX: +44-125-647-1441
vt.uk@vishaymg.com

VMG Israel
Netanya
PH: +972-9-863-8888
FAX: +972-9-863-8800
vt.il@vishaymg.com

VMG Germany
Heilbronn
PH: +49-7131-3901-260
FAX: +49-7131-3901-2666
vt.de@vishaymg.com

VT China
Tianjin
PH: +86-22-2835-3503
FAX: +86-22-2835-7261
vt.prc@vishaymg.com

VMG France
Chartres
PH: +33-2-37-33-31-20
FAX: +33-2-37-33-31-29
vt.fr@vishaymg.com

VT Taiwan*
Taipei
PH: +886-2-2696-0168
FAX: +886-2-2696-4965
vt.roc@vishaymg.com
*Asia except China



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