

Welded, Hermetically Sealed Load Cell



FEATURES

- Capacities 5 - 500kg
- Stainless steel construction
- OIML R60 and NTEP approved
- IP68 protection

OPTIONAL FEATURES

- EEx ia IIC T6 hazardous area approval
- FM approval available

DESCRIPTION

Model 355 is a welded bending load cell manufactured in stainless steel. Hermetically sealed against moisture the Model 355 construction and polyurethane shielded cable enables the load cell to function in harsh environments while maintaining its operating specifications.

The low profile, high accuracy and sealing makes this load cell highly suitable for applications such as low profile platforms, weighing and packing machines, conversion of mechanical scales and variety of other applications where sealed

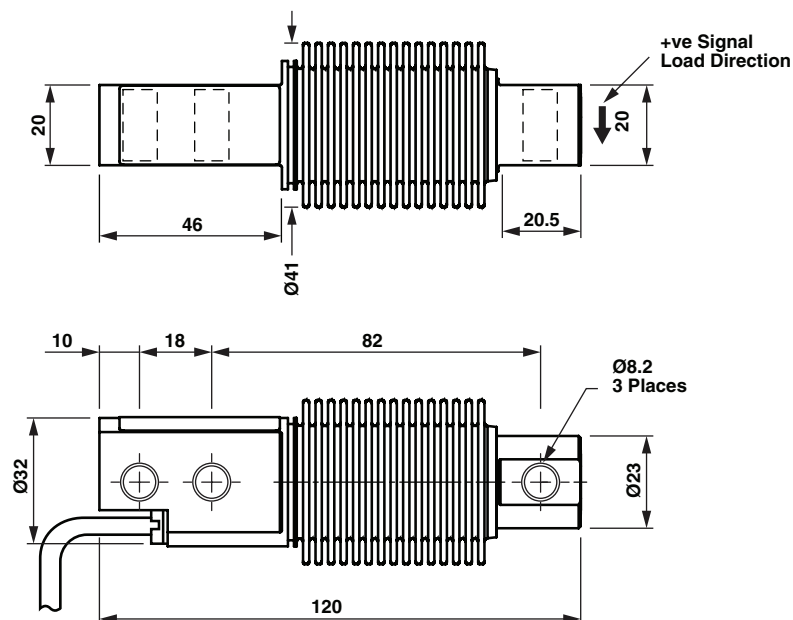
cells are required. For hazardous environments this load cell is available with EEx ia IIC T6 level of approval as an option.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of change in the lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- Low profile platforms
- Loss-in-weight feeders
- Marine and hybrid scales
- Belt weighers
- Food industry harsh environment

OUTLINE DIMENSIONS in millimeters



Model 355

Vishay Tedea-Huntleigh

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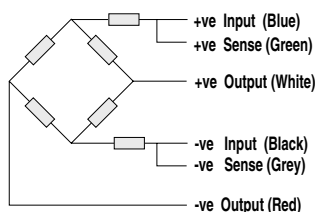


SPECIFICATIONS

| PARAMETER | VALUE | | | | UNIT |
|-----------------------------------|---|--------------|--------|--------|-----------------------|
| Rated capacity-R.C. (E_{max}) | 5, 10, 20, 30, 50, 100, 200, 250, 500 | | | | kg |
| NTEP/OIML Accuracy class | NTEP | Non-Approved | C3* | C4** | |
| Maximum no. of intervals (n) | 4000 single | 1000 | 3000 | 4000 | |
| $Y = E_{max}/V_{min}$ | 5800 | 3333 | 15000 | 13333 | Maximum available |
| Rated output-R.O. | 2.00 (UR matched 2.02) | | | | mV/V |
| Rated output tolerance | 0.002 | | | | ±mV/V |
| Zero balance | 0.2 | | | | ±mV/V |
| Zero Return, 30 min. | 0.0250 | 0.0500 | 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 | 0.007 | 0.0011 | 0.0011 | ±% of rated output/°C |
| Temperature effect on output | 0.001 | 0.0040 | 0.0010 | 0.0008 | ±% of applied load/°C |
| 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 | | | | Ohms |
| Output impedance | 350±3 | | | | Ohms |
| Insulation resistance | >2000 | | | | Mega-Ohms |
| 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 |

* 20% utilization
 ** 30% utilization

Wiring Schematic Diagram



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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