

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

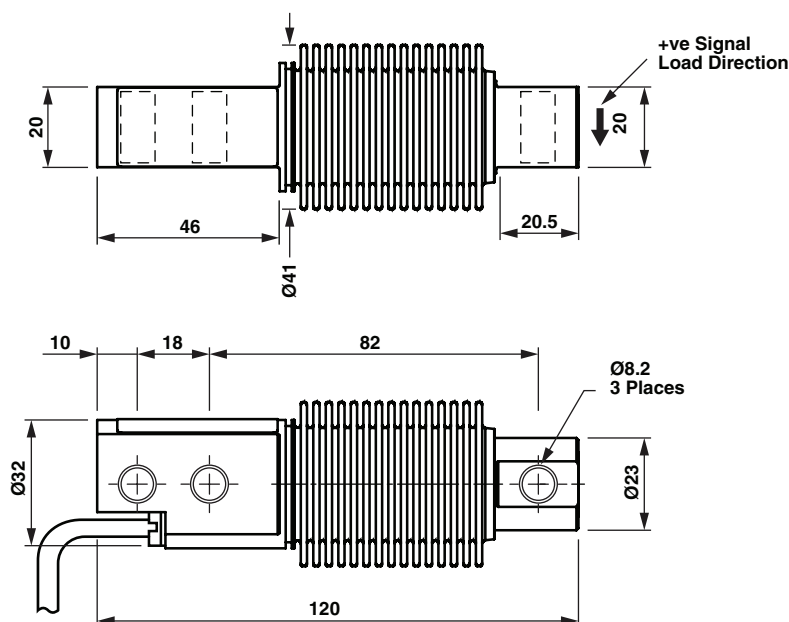
cells are required. For hazardous environments this load cell is available with EEx ia IIC T6 level of approval as an option.

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 mm

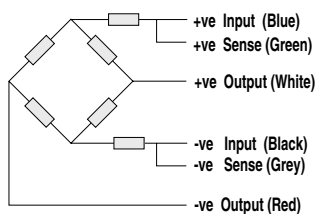


**SPECIFICATIONS**

| 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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