### Vishay Celtron



## **Hermetically-Sealed Bending Beam**



#### **DESCRIPTION**

HBB is a single-ended bending beam load cell designed for multiple cell applications, such as low profile platform scales or small tank scales when used with proper mounting accessories. It is insensitive to side load and capable of reversed loading.

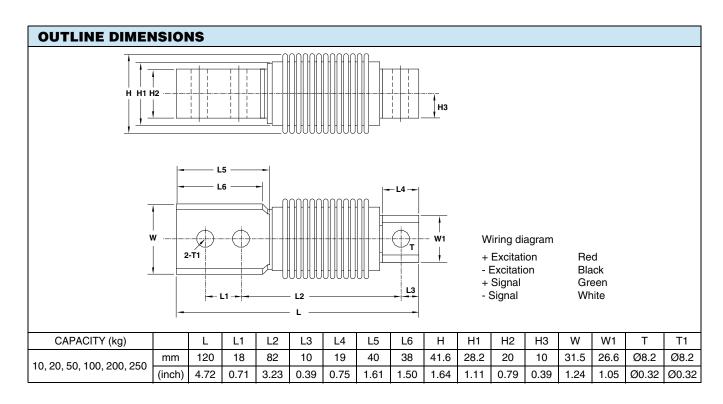
HBB is constructed of stainless steel and hermeticallysealed to IP68 providing excellent protection against corrosive and wash-down environments.

#### **FEATURES**

- · Capacities: 10, 20, 50, 100, 200 and 250kg
- · Hermetically-sealed
- · Stainless steel construction
- · High side load tolerance
- · Easy installation
- · OIML C3 approval from 50kg to 250kg

#### **APPLICATIONS**

- Platform scales (multiple load cells)
- · Silo/hopper/tank weighing
- · Packaging machines
- Dosing/filling
- Belt scales/conveyor scales



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| SPECIFICATIONS                              |                           |          |                       |
|---|---------------------------|----------|-----------------------|
| PARAMETER                                   | VALUE                     |          | UNIT                  |
| NTEP/OIML Accuracy class                    | Non-Approved              | C3       |                       |
| Maximum no. of intervals (n)                | 1000                      | 3000 (1) |                       |
| $Y = E_{max}/V_{min}$                       | 5000                      | 10000    | Maximum available     |
| Standard capacities (E <sub>max</sub> )     | 10, 20, 50, 100, 200, 250 |          | kg                    |
| Rated output-R.O.                           | 2.0                       |          | mV/V                  |
| Rated output tolerance                      | 0.25                      |          | ±% of rated output    |
| Zero balance                                | 1                         |          | ±% of rated output    |
| Non linearity                               | 0.030                     | 0.025    | ±% of rated output    |
| Hysteresis                                  | 0.030                     | 0.025    | ±% of rated output    |
| Non-repeatability                           | 0.020                     |          | ±% of rated output    |
| Creep error (20 minutes)                    | 0.030                     | 0.020    | ±% of rated output    |
| Zero return (20 minutes)                    | 0.030                     | 0.020    | ±% of rated output    |
| Temperature effect on min. dead load output | 0.0026                    | 0.0014   | ±% of rated output/°C |
| Temperature effect on sensitivity           | 0.0015                    | 0.0010   | ±% of applied load/°C |
| Compensated temperature range               | -10 to +40                |          | °C                    |
| Operating temperature range                 | -20 to +60                |          | °C                    |
| Safe overload                               | 150                       |          | % of R.C.             |
| Ultimate overload                           | 300                       |          | % of R.C.             |
| Excitation, recommended                     | 10                        |          | Vdc or Vac rms        |
| Excitation, maximum                         | 15                        |          | Vdc or Vac rms        |
| Input impedance                             | 385±5                     |          | Ohms                  |
| Output impedance                            | 350±3                     |          | Ohms                  |
| Insulation resistance                       | >5000                     |          | Mega-Ohms             |
| Cable length                                | 3                         |          | m                     |
| Construction                                | Stainless steel           |          | ·                     |
| Environmental protection                    | IP68                      |          |                       |

#### Note

(1) Capacities: 50-250kg

All Specifications subject to change without notice.