

## Single-Ended Beam

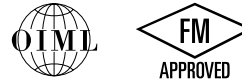
### FEATURES

- Capacities: 500 kg, 1T, 1.5T, 2T, and 2.5T
- High side-load tolerance
- Electroless nickel-plated-alloy tool steel
- OIML C3 approval from 500 kg to 2.5T
- **Optional**
  - FM approval available



### APPLICATIONS

- Truck/rail scales
- Silo/hopper/tank weighing
- Platform scales (multiple load cells)
- Pallet truck scales
- Packaging machines



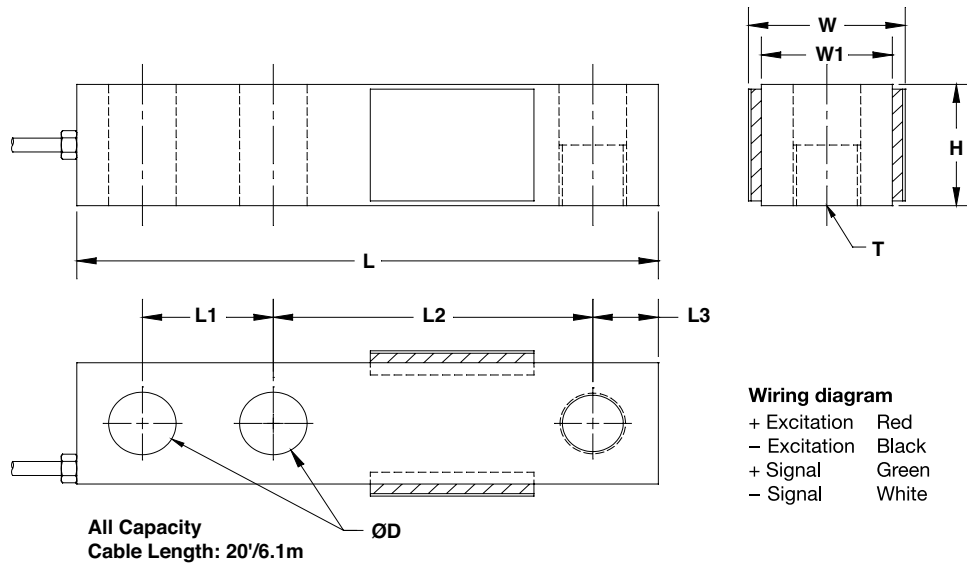
### DESCRIPTION

SEB is a single-ended shear beam load cell designed for multiple cell applications such as low profile platform or small tank scales when used with proper mounting

accessories. It is insensitive to side loading and capable of reversed loading.

SEB is constructed of alloy steel and fully potted with special chemical compounds to IP67 to protect the cell from water and moisture damage.

### OUTLINE DIMENSIONS



| CAPACITY          |        | L     | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | W    | W <sub>1</sub> | H    | D    | T          |
|-------------------|--------|-------|----------------|----------------|----------------|------|----------------|------|------|------------|
| 500 kg/1T/1.5T/2T | mm     | 130.0 | 25.4           | 76.2           | 12.7           | 38.1 | 31.2           | 31.2 | 13.5 | M12 x 1.75 |
|                   | (inch) | 5.12  | 1.00           | 3.00           | 0.50           | 1.50 | 1.25           | 1.25 | 0.53 |            |
| 2.5T              | mm     | 171.5 | 38.1           | 95.3           | 19.0           | 44.2 | 38.1           | 38.1 | 19.8 | M20 x 1.5  |
|                   | (inch) | 6.75  | 1.50           | 3.75           | 0.75           | 1.74 | 1.50           | 1.50 | 0.78 |            |

## Single-Ended Beam

| SPECIFICATIONS                              |                             |                       |
|---|-----------------------------|-----------------------|
| PARAMETER                                   | VALUE                       | UNIT                  |
| NTEP/OIML accuracy class                    | C3                          |                       |
| Maximum no. of intervals (n)                | 3000                        |                       |
| $Y = E_{max}/V_{min}$                       | 10000                       | Maximum available     |
| Standard capacities ( $E_{max}$ )           | 500, 1000, 1500, 2000, 2500 | kg                    |
| Rated output – R.O.                         | 3.0                         | mV/V                  |
| Rated output tolerance                      | 0.25                        | ±% of rated output    |
| Zero balance                                | 1                           | ±% of rated output    |
| Non-linearity                               | 0.025                       | ±% of rated output    |
| Hysteresis                                  | 0.025                       | ±% of rated output    |
| Non-repeatability                           | 0.020                       | ±% of rated output    |
| Creep error (20 minutes)                    | 0.030                       | ±% of rated output    |
| Zero return (20 minutes)                    | 0.030                       | ±% of rated output    |
| Temperature effect on min. dead load output | 0.0014                      | ±% of rated output/°C |
| Temperature effect on sensitivity           | 0.0008                      | ±% 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                       | Ω                     |
| Output impedance                            | 350±3                       | Ω                     |
| Insulation resistance                       | >5000                       | MΩ                    |
| Construction                                | Nickel-plated alloy steel   |                       |
| Environmental protection                    | IP67                        |                       |

All specifications subject to change without notice.

### FM Approval

Intrinsically Safe: Class I, II, III; Div. 1 Groups A-G

Non-Incendive: Class I; Div. 2 Groups A-D



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