

# S Type Loadcell

The Accurate, Low Cost and Robust Weight Measurement Option

VN1



## Technical Specifications

| Parameter                      | Value             |
|--------------------------------|-------------------|
| Model                          | VN1               |
| Capacity                       | 2 Kg to 10T       |
| Sensitivity                    | 2mV/V or 3mV/V    |
| Non-Linearity                  | ±0.025% FS        |
| Hysteresis                     | ±0.02% FS         |
| Repeatability                  | ±0.01% FS         |
| Creep (30 min)                 | ±0.03% FS         |
| Zero Balance                   | ±1%FS             |
| Temperature Compensated Range  | 10°C ~ +50°C      |
| Operating Temperature Range    | 0°C ~ +60°C       |
| Input Resistance               | 350 ± 10 Ω        |
| Output Resistance              | 350 ± 10 Ω        |
| Insulation Resistance          | >1000 MΩ @ 50V DC |
| Recommended Excitation Voltage | 5 to 12V DC/AC    |
| Maximum Supply Voltage         | 15V DC/AC         |
| Safe Overload                  | 150% FS           |
| Ultimate Load                  | 200% FS           |
| Cable Length                   | 3 meters          |

### Capacity Range: 2 Kg to 10 Ton

Our **S-Type Load Cells** are designed for precision measurement in tension and compression applications. With their compact and robust design, these load cells deliver highly accurate performance, making them suitable for industrial weighing systems, force measurement, and material testing. Manufactured with high-grade alloy steel and advanced strain gauge technology, our S-type load cells ensure long-term reliability and stability, even in demanding environments.

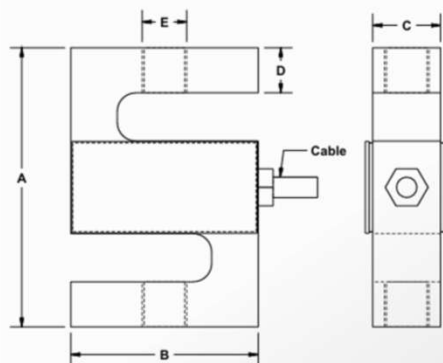
### Key Features

- ❑ **High Accuracy & Reliability** – Ensures precise load measurement with minimal error.
- ❑ **Dual Application** – Suitable for both **tension and compression** measurements.
- ❑ **Compact S-Type Design** – Easy integration into existing weighing systems and test machines.
- ❑ **Durable Construction** – Built with **alloy steel / stainless steel** for long service life.
- ❑ **Environmental Protection** – Options available with **IP65/IP67 sealing** for dust and moisture resistance.
- ❑ **Versatile Applications** – Ideal for hanging scales, crane weighing, hopper/tank weighing, and universal testing machines.
- ❑ **Custom Solutions** – Tailor-made versions available on request to meet specific application needs.

### Key Applications

- ❑ Hanging & Crane Scales
- ❑ Tensile & Compression Testing Machines
- ❑ Hopper & Tank Weighing Systems
- ❑ Batching & Mixing Systems
- ❑ Force Measurement in Automation
- ❑ Industrial Weighbridges (Auxiliary Use)
- ❑ R&D and Laboratory Applications
- ❑ Overhead Weighing Applications





| CAPACITY | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm)                    | Material    |
|----------|-----------|-----------|-----------|-----------|------------------------------|-------------|
| 2 kg     | 76        | 50        | 12        | 16        | M6 (or) M8                   | Aluminium   |
| 5 kg     |           |           |           |           |                              |             |
| 10 kg    |           |           |           |           |                              |             |
| 20 kg    | 62        | 50        | 12.5      | 10.2      | M6 (or) M8                   | Alloy Steel |
| 50 kg    |           |           |           |           |                              |             |
| 50 kg    |           |           |           |           |                              |             |
| 100 kg   | 75.4      | 50.6      | 18.3      | 12        | M12x1.25<br>(or)<br>M12x1.75 | Alloy Steel |
| 200 kg   |           |           |           |           |                              |             |
| 350 kg   |           |           |           |           |                              |             |
| 450 kg   |           |           |           |           |                              |             |
| 500 kg   |           |           |           |           |                              |             |
| 700 kg   |           |           |           |           |                              |             |
| 1 Ton    | 75.4      | 50.6      | 24.6      | 14.4      | M12x1.25 (or) M12x1.75       | Alloy Steel |
| 2 Ton    | 76        | 60        | 35        | 14        | M18x1.5 (or) M20x1.5         | Alloy Steel |
| 3 Ton    | 120.6     | 88.9      | 24.6      | 22        | M20X1.5                      | Alloy Steel |
| 4.5 Ton  |           |           |           |           |                              |             |
| 5 Ton    |           |           |           |           |                              |             |
| 10 Ton   | 128       | 99        | 50        | 29.5      | M30x2 (or) M30x3.5           | Alloy Steel |

\*All Dimensions are in mm

»»» Warranty – One year

\* Other Customized loads cell are available on request

Stainless Steel and optional Alloy steel constructions

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

No. 123, New Star City, Atthivakkam, Kottur, Perumal Kovil Street, Redhills, Chennai-600052, Tamil Nadu, India  
Ph No : +91 7397423234

Email: [ijsesnor.info@gmail.com](mailto:ijsesnor.info@gmail.com)