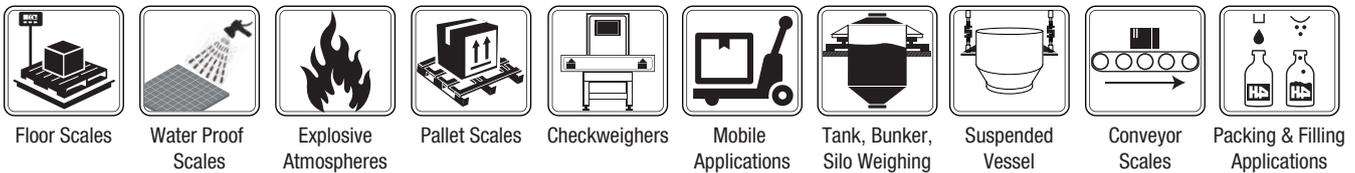


# BS063D / BS063SD

## Digital Beam Load Cell



### Applications



### Key Features

- 150~10000 kg Capacities
- Nickel plated alloy steel / Stainless steel
- Metric threaded and blind hole types
- OIML R60 C3 approval ( BS063D, 1/2/5 t )
- Protection class: IP68

BS063D and BS063SD, constructed from nickel-plated alloy steel or stainless steel, are highly accurate and reliable load cells thanks to their advanced electronic design and high resolution. They have a wide capacity range from 150 kg to 10000 kg. Additionally, BS063D / BS063SD digital load cells have normalized production features that eliminate the need for calibration adjustment after replacing a defective load cell.

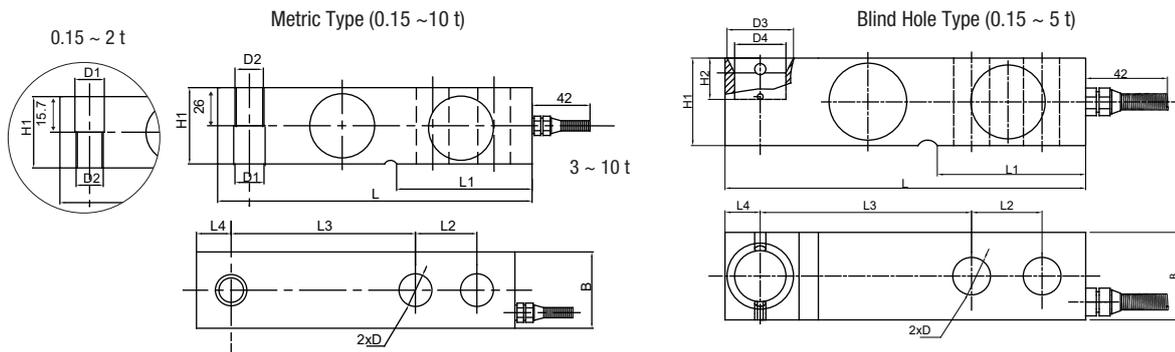
In a scale equipped with BS063D/BS063SD digital load cells, detecting load cell failure and fixing the failure by making adjustments, and then performing electronic calibration after replacement, is much easier and faster than analogue load cell weighing systems.

BS063D / BS063SD are highly suitable for all kinds of industrial weighing applications such as floor scales, conveyors, tanks, silo weighing systems with IP68 protection class and through-hole with metric thread or blind hole models.

# Technical Specifications

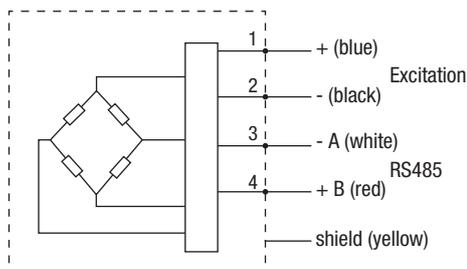
| Model   |                           | BS063D  | BS063SD                   |
|---|---------------------------|---|---------------------------|
| Capacity ( $E_{max}$ )  | t                         | 0.15 / 0.25 / 0.3 / 0.5 / 0.75 / 7.5 / 10   | 1 / 1.5 / 2 / 2.5 / 3 / 5 |
| Accuracy class according to OIML R60                                  |                           | G3  | C3                        |
| Max. number of load cell verification intervals ( $n_{LC}$ )          |                           | -   | 3000                      |
| Min. load cell verification interval $Y = E_{max} / (V_{min})$        |                           | -   | 10000                     |
| Ratio of minimum dead load output return $Z = E_{max} / (2 \cdot DR)$ |                           | -   | 3100                      |
| Internal resolution (Max.)  | Count @ $E_{max}$         | >8 000 000  |                           |
| Fraction $p_{LC}$   |                           | 0.8   |                           |
| Temperature effect on zero  | % $E_{max} / 10^{\circ}C$ | $\pm 0.02$  |                           |
| Temperature effect on sensitivity                                     | % $E_{max} / 10^{\circ}C$ | $\pm 0.02$  |                           |
| Combined error  | % $E_{max}$               | $\pm 0.02$  |                           |
| Zero balance  | % $E_{max}$               | $< \pm 1$   |                           |
| Creep error (30 minutes)  | % $E_{max}$               | $< \pm 0.02$  |                           |
| Safe load limit   | % $E_{max}$               | 150   |                           |
| Ultimate load   | % $E_{max}$               | 180   |                           |
| Communication   |                           | RS485, Baykon BDLC protocol   |                           |
| Excitation, recommended   | V (DC)                    | 12  |                           |
| Excitation voltage range  | V (DC)                    | 10 - 16   |                           |
| Current consumption (at 12 V)   | mA                        | 30  |                           |
| Compensated temperature range   | $^{\circ}C$               | - 10 ... + 40   |                           |
| Operating temperature range   | $^{\circ}C$               | - 30 ... + 70   |                           |
| Material  |                           | Alloy steel   | Stainless steel           |
| Protection class  |                           | IP67 (0.1-0.3 t), IP68 (0.5-10 t)   |                           |
| Cable   |                           | Length: 3 m up to (0.15-2.5t), 4.2 m for (3-5t), 5 m for (7.5-10t) $\varnothing$ 6 mm |                           |

## Dimensions (mm)



| Capacity (t) | L     | L1   | L2   | L3   | L4   | B    | H1   | H2 | D                | D1                 | D2      | D3               | D4                 |
|--------------|-------|------|------|------|------|------|------|----|------------------|--------------------|---------|------------------|--------------------|
| 0.15 ~ 2     | 130   | 53.5 | 25.4 | 76.2 | 12.7 | 31.8 | 31.8 | 12 | $\varnothing 13$ | $\varnothing 13.5$ | M12     | $\varnothing 24$ | $\varnothing 18.5$ |
| 3 ~ 5        | 171.5 | 72.5 | 38.1 | 95.3 | 19   | 38.1 | 38.1 | 20 | $\varnothing 20$ | $\varnothing 20$   | M18x1.5 | $\varnothing 35$ | $\varnothing 25$   |
| 7.5 ~ 10     | 222.5 | 102  | 50.8 | 124  | 25.3 | 50.8 | 50.8 | -  | $\varnothing 27$ | $\varnothing 27$   | M24x2   | -                | -                  |

## Color Codes



## W Modules

