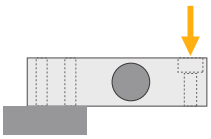
BS063D / BS063SD

Digital Beam Load Cell



Applications

Floor Scales | Water Proof Scales | Pallet Scales | Checkweighers | Mobile Applications | Tank, Bunker, Silo Weighing | Suspended Vessel | Conveyor Scales | Packing & Filling 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.

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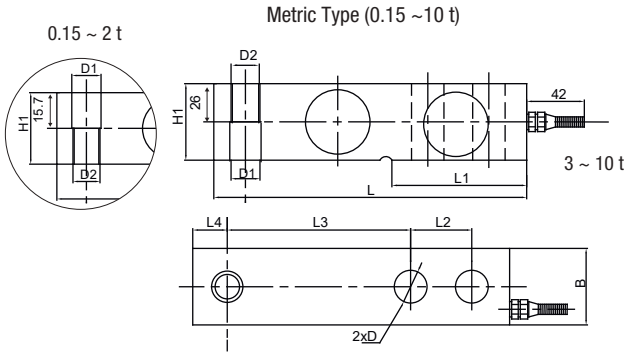
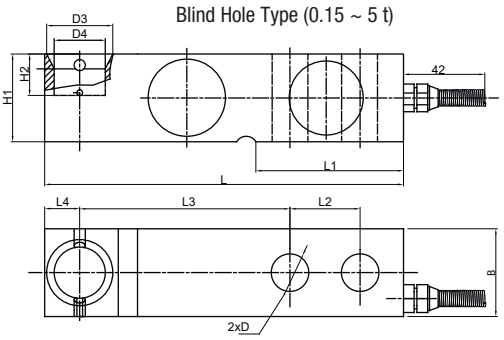
Technical Specifications

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	0.15 / 0.25 / 0.3 / 0.5 / 0.75 / 1 / 1.5 / 2 / 2.5 / 3/ 5 / 7.5 / 10
Accuracy class according to OIML R60		G3	C3	G3
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*DR)		-	3100	-
Internal resolution (Max.)	Count @ E_{max}	>8 000 000		
Fraction p_{LC}		0.8		
Temperature effect on zero	% E_{max}/10°C	± 0.02		
Temperature effect on sensitivity	% E_{max}/10°C	± 0.02		
Combined error	% E_{max}	± 0.02		
Zero balance	% E_{max}	< ± 1		
Creep error (30 minutes)	% E_{max}	< ± 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		
Compansated temperature range	°C	- 10 … + 40		
Operating temperature range	°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) Ø 6 mm		

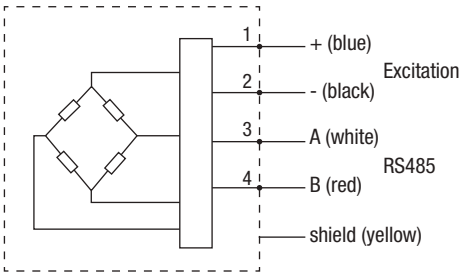
Dimensions (mm)





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	15	ø13	ø13.5	M12	ø24	ø18.5
3 ~ 5	171.5	72.5	38.1	95.3	19	38.1	38.1	20	ø20	ø20	M18x1.5	ø35	ø25
7.5 ~ 10	222.5	102	50.8	124	25.3	50.8	50.8	-	ø27	ø27	M24x2	-	-

Color Codes



W Modules

LEB

(Specifications are subject to change without notice. 08 -12 / 2024)

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