SB1 Load Cell

SCALE-TEC
MEASUREMENT WITH CONFIDENCE



Short description

- Stainless steel IP67 shear beam load cell (100 kg, 250kg are bending beam load cells) Adhesive
- sealed
- Suitable platform weighing, bed weighing, etc.
- High accuracy
- High reliability
- Current calibrated (sc-option)

Available models

Capacity	Accuracy	Full article description
100kg	C3	SB1-C3-100kg-4M
250kg	C3	SB1-C3-250kg-4M
500kg	C3	SB1-C3-500kg-4M
1t	C3	SB1-C3-1.0t-4M
1.5t	C3	SB1-C3-1.5t-4M
2t	C3	SB1-C3-2.0t-4M
2.5t	C3	SB1-C3-2.5t-6M
3t	C3	SB1-C3-3.0t-4M
5t	C3	SB1-C3-5.0t-6M
10t	C3	SB1-C3-10t-6M

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

SCALETEC MECHATRONICS PVT. LTD.
665, GIDC Industrial Estate, Makarpura,
Vadodara – 390010, Gujarat, India

T: +91 9909966404
F: +91-265-23118 4 2
info@scale-tec .i n

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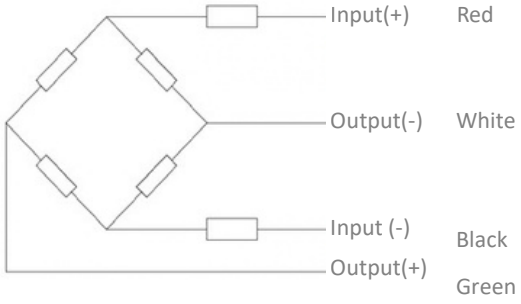
Detailed specifications SB1

Accuracy class		C3
Output sensitivity (= FS)	mV/V	3.0 ± 0.003
Maximum capacity (E^{max})	t	0.1, 0.25, 0.3,0.5, 1,1 .5, 2, 2.5, 3, 5, 10
Max.number of load cell intervals	n_{LC}	3000
Ratio of min. LC verification interval	$Y = E_{max}/v$ min	10000
Combined Error	%FS	≤± 0.023
Minimum dead load	OfE_{max}	0%
Safe overload	of E_{max}	150%
Ultimate overload	of E_{max}	300%
Zero balance	ofFS	< ± 1.0%
Excitation, recommended voltage	V	5 ~12
Excitation maximum	V	18
Input resistance	Ω	350 ± 3.5
Output resistance	Ω	350 ± 3.5
Insulation resistance	MΩ	≥5000 (at 50VDC)
Compensated temperature	°C	-10 ~+40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +80
Element material		Stainless steel
Ingress Protection (acc. to EN 60529)		IP67
Recommended torque on fixation	Nm	M12:75

Wiring

Wiring:
Shielded, 4 or 6 conductor cable
Cable diameter: Ø5mm.
Standard cable length for 100kg – 2t: 4m and 6m for the higher capacities.
Shield in not connected to the element.

4-wire diagram



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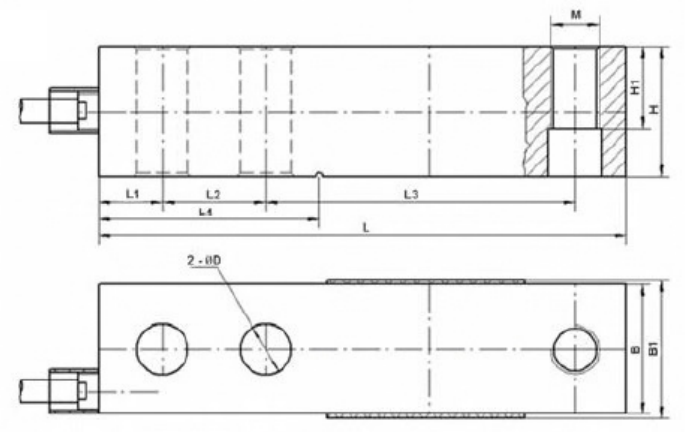
Ordering Info:

SB1 – C3 – 1.0t – 4 – – MX – SC – XX

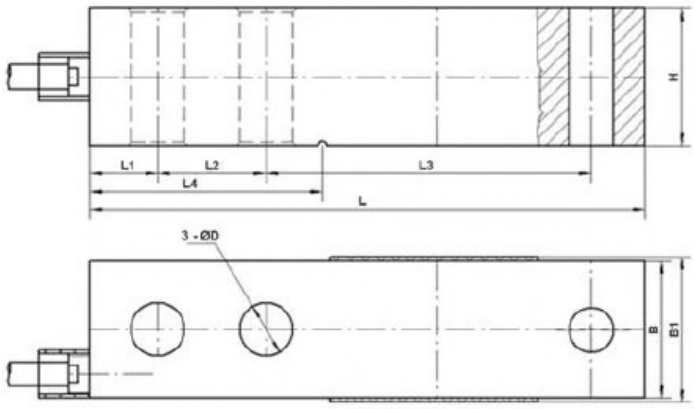
- XX: Option XX. No mark is standard version, W4 is through loading hole, W6 is "T" end loading hole.
- SC: Option SC (standard current).
- MX: Cable option. No mark is 4 conductor cable and with a "6" a 6 conductor cable.
- Thread option. No mark is Metric Thread and "Y" is Imperial thread.
- 4: Length of the cable in meters.
- 1.0t: Nominal capacity (*Emax*) for Metric in t(on) and Imperial in lbs up to 500lbs and above in K(ilo)lbs.
- C3: Maximum load cell divisions.
- SB1: Load Cell model.

Dimensions in mm

Standard version



Option W4 version (Through loading hole)

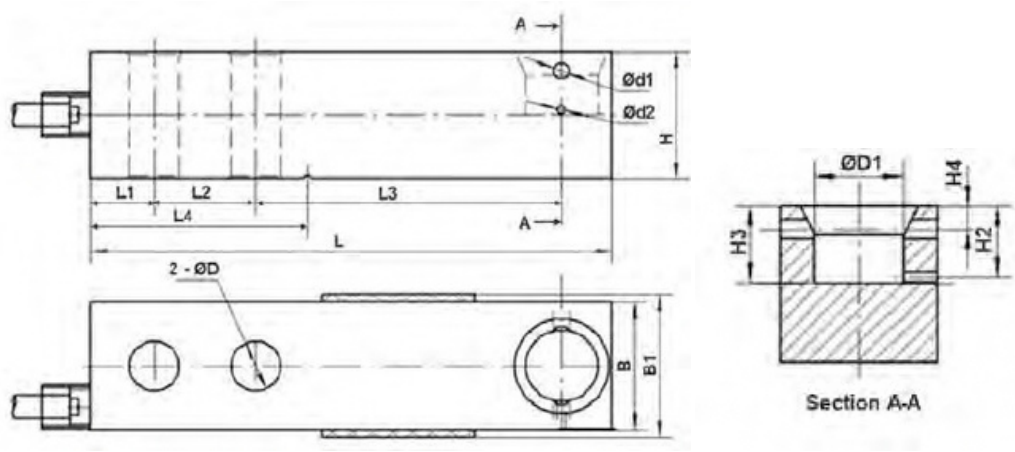


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Option W6 version (“T” end loading hole)



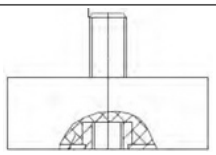
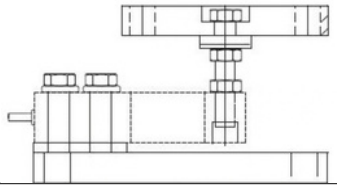
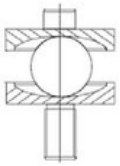
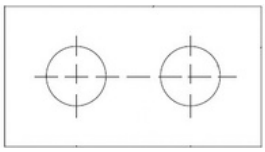
Dimension Capacity	L	L1	L2	L3	L4	B	B1	H	H1	H2	H3	H4	ØD	Ø D 1	Ø dd 1	Ø 2	M
0.1t-2t	130	15.8	25.4	76.2	54.2	31.8	34	31.8	15.8	14.5	15.8	4.8	13.5		18	4 2	M 12
2.5t-5t	171.5	19.1	38.1	95.3	77.2	38.1	40	38.1	18.8	17.5	18.8	4.8	19.8	25	4 2		M 18
10t	222.3	25.4	50.8	120.7	101.6	50.8	52.4	50.8	25.4	-	-	-	26	-	- -		M 24

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Available accessories

HJ-8-201-0.1-10t foot • Ø60-86 and height 92-112 mm • Nickel plated alloy steel • Adjustable height	
HJ-8-203-0.5-2t foot • Ø67 andheight 46 mm • Nickel plated alloy steel • Easy installation	
HJ-8-213-0.5-2t foot • Ø60andheight 62 mm • Nickel plated alloy steel • Adjustable height	
HM-8-402-0.5-5 moun Nickeplate allo stee Adjustabl mountin heigh Eas installatio	
HY-8-102-0.5-5 Nicke plate allo stee Eas installatio Goo self-alignmen abilit	
HD-8-301-0.5-5 space plat Nickeplate allo Stee	

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