

Type C1SB Load Cell



Short description



- Nickel plated alloy 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)



Test certificate no. TC8012 Revision 1
C of C no R60/2000-NL1-12.12
Certificate no. 12-028

Available models

Capacity	Accuracy	Full article description
100kg	C3/C4/C5	C1SB-C3/C4/C5-100kg-4B(-SC-W6)
250kg	C3/C4/C5	C1SB-C3/C4/C5-250kg-4B(-SC-W6)
500kg	C3/C4/C5	C1SB-C3/C4/C5-500kg-4B(-SC-W6)
750kg	C3/C4/C5	C1SB-C3/C4/C5-750kg-4B(-SC-W6)
1t	C3/C4/C5	C1SB-C3/C4/C5-1.0t-4B(-SC-W6)
1.5t	C3/C4/C5	C1SB-C3/C4/C5-1.5t-4B(-SC-W6)
2t	C3/C4/C5	C1SB-C3/C4/C5-2.0t-4B(-SC-W6)
2.5t	C3/C4/C5	C1SB-C3/C4/C5-2.5t-6B(-SC-W6)
3t	C3/C4/C5	C1SB-C3/C4/C5-3.0t-6B(-SC-W6)
5t	C3/C4/C5	C1SB-C3/C4/C5-5.0t-6B(-SC-W6)
10t	C3/C4/C5	C1SB-C3/C4/C5-10t-6B(-SC-W6)

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

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Technical specifications C1SB

Accuracy class		OIML R60 C3	OIML R60 C4	OIML R60 C5
Output sensitivity (= FS)	mV/V	3.0 ± 0.003		
Maximum capacity (E _{max})	t	0.1, 0.25, 0.5, 0.75, 1, 1.5, 2, 2.5, 3, 5, 10	0.1, 0.25, 0.5, 0.75, 1, 1.5, 2, 2.5	3, 5, 10
Max. number of load cell intervals	n _{LC}	3000	4000	5000
Ratio of min. LC verification interval	Y = E _{max} / v _{min}	10000	15000	20000 18000
Combined Error	%FS	≤± 0.023	≤± 0.0175	≤± 0.014
Minimum dead load	Of E _{max}	0%		
Safe overload	of E _{max}	150 %		
Ultimate overload	of E _{max}	300 %		
Zero balance	of FS	< ± 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		Nickel plated alloy steel		
Ingress Protection (acc. to EN 60529)		IP67		
Recommended torque on fixation	Nm	M12: 75	M18:500	M24:750
ATEX classification (optional)		II1G Ex ia II1C	II1D Ex iaD 20 T73°C	II3G nL IIC T4

Wiring

Features:

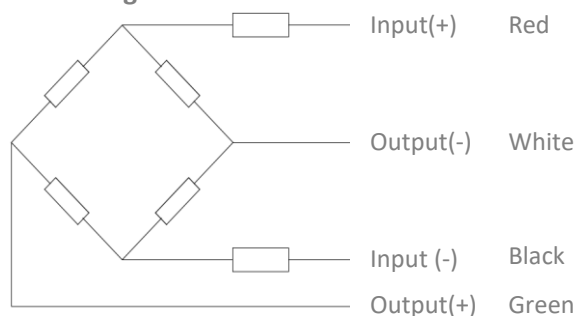
Shielded, 4 or 6 conductor cable

Cable diameter: Ø5mm

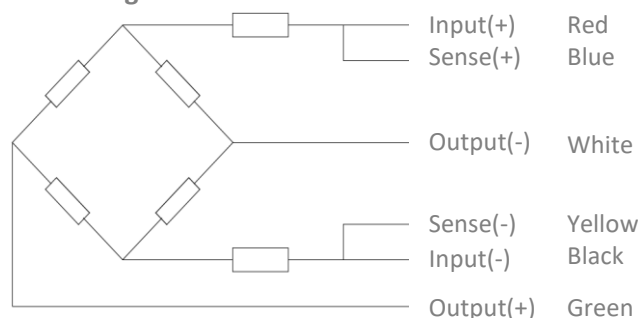
Standard cable length for 100kg – 2t: 4m and 6m for the higher capacities

Shield not connected to element

4-wire diagram



6-wire diagram



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Ordering Info:

C1SB - C3 - 1.0t - 4 - - BX - SC - XX

Option XX. No mark is standard version, W4 is through loading hole, W6 is "T" end loading hole

Option SC (standard current)

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

Length of the cable in meters

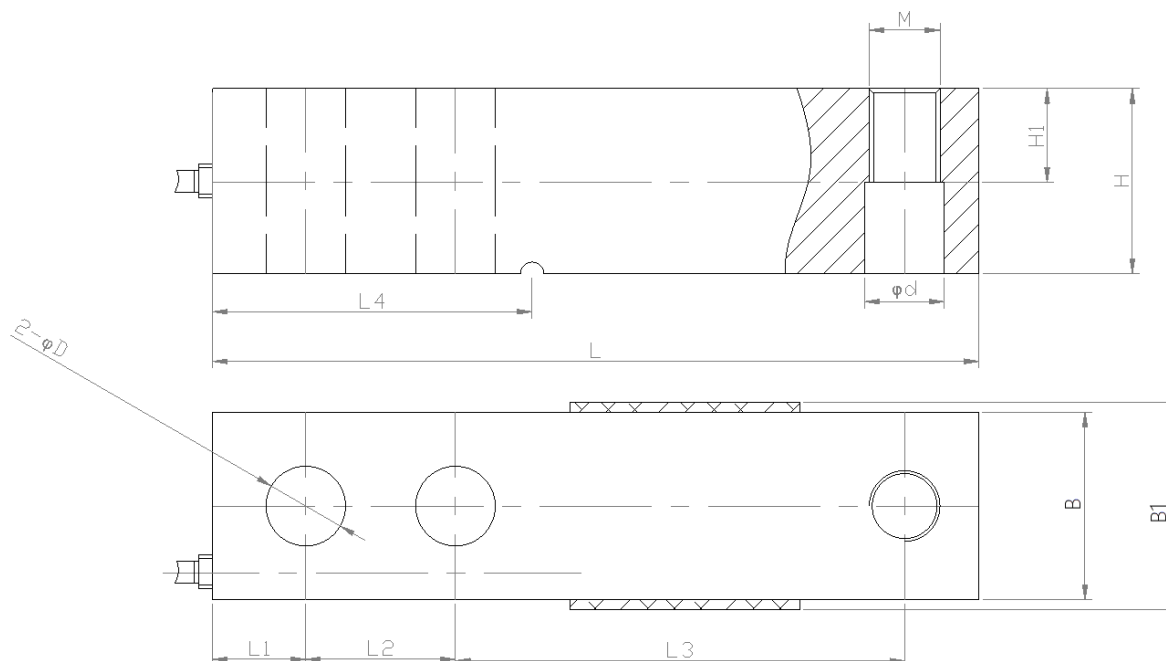
Nominal capacity (E_{max}) for Metric in t(on) and Imperial in lbs up to 500lbs and above in K(ilo)lbs

Maximum load cell divisions

Load Cell model

Dimensions in mm

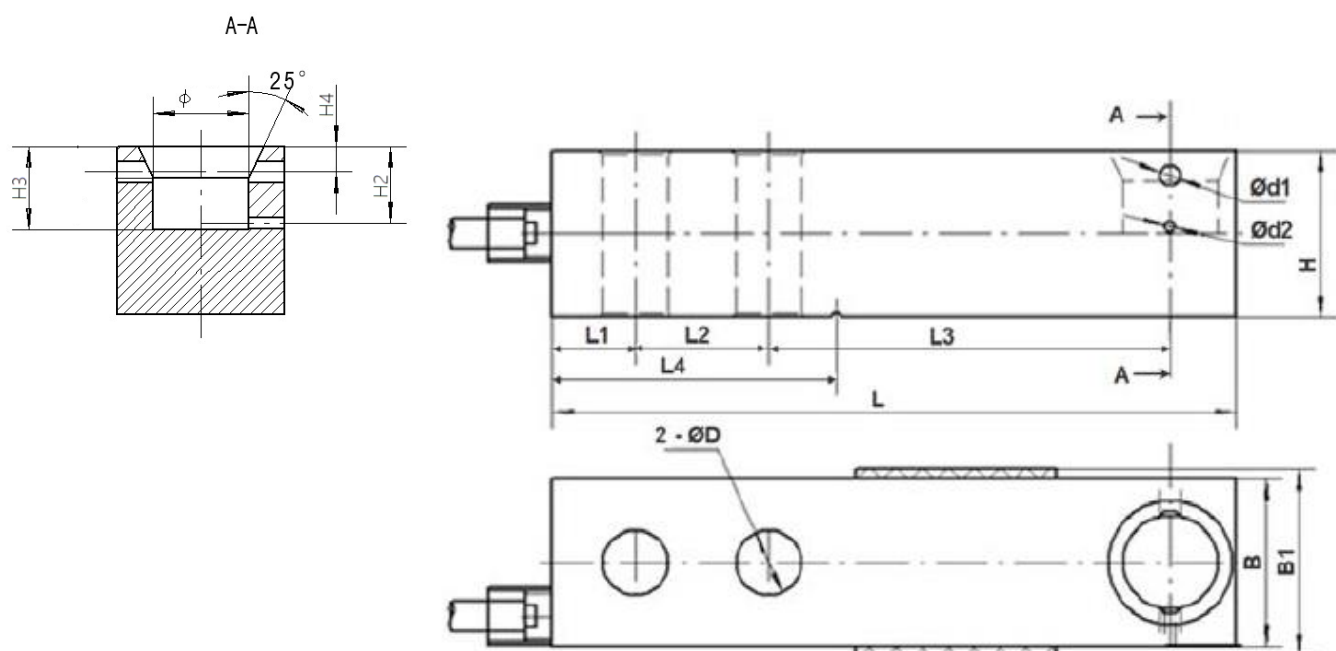
Standard Version



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Option W6 version ("T" end loading hole)



Capacity Dimension	100kg -250kg	0.5t-2t	2.5t-5t	10t
L	130	130	171.5	222.3
L1	15.8	15.8	19.1	25.4
L2	25.4	25.4	38.1	50.8
L3	76.2	76.2	95.3	120.7
L4	54.2	54.2	77.2	101.6
B	31.8	31.8	38.1	50.8
B1	37	34	40	52.4
H	31.8	31.8	38.1	50.8
H1	15.8	15.8	18.8	25.4
H2	14.5	14.5	17.5	-
H3	15.8	15.8	18.8	-
H4	4.8	4.8	4.8	-
ØD	13.5	13.5	19.8	26
ØD1	18	18	25	-
Ød1	4	4	4	-
Ød2	2	2	2	-
M	12 x 1.75	12 x 1.75	18 x 1.5	24 x 2

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