Type IB1-D1 DIGITAL Load Cell



Short description

- Nickel plated alloy steel IP67 shear beam load cell
- Factory Calibrated Load Cells, and do not need to be re-calibrated when they are installed
- Less Noise, Simple Maintenance, Versatility, More Sensetive.
- High accuracy
- High reliability

Available models

Capacity	Accuracy	Full article description
500kg	C3/C4/C5	IB1-D1-C3-500kg-4M
1t	C3/C4/C5	IB1-D1-C3-1.0t-4M
1.5t	C3/C4/C5	IB1-D1-C3-1.5t-4M
2t	C3/C4/C5	IB1-D1-C3-2.0t-4M
2.5t	C3/C4/C5	IB1-D1-C3-2.5t-6M
3t	C3/C4/C5	IB1-D1-C3-3.0t-4M
5t	C3/C4/C5	IB1-D1-C3-5.0t-6M
10t	C3/C4/C5	IB1-D1-C3-10t-6M

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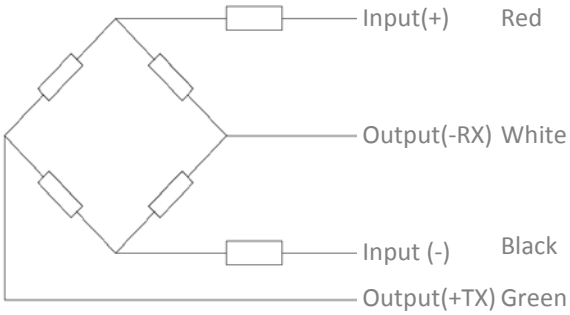
Detailed specifications IB1

Accuracy class		C3
Output sensitivity (= FS)	counts	1000000d
Maximum capacity (E_{max})	t	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	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

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:

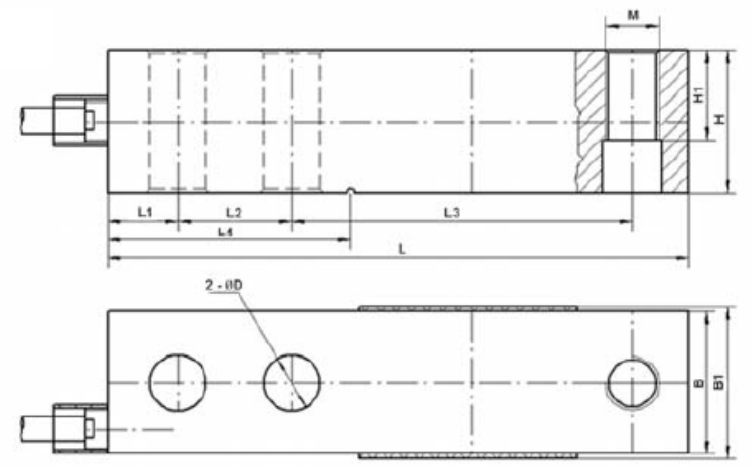
IB1 – C3 – 1.0t – 4 – – MX– SC – __

XX

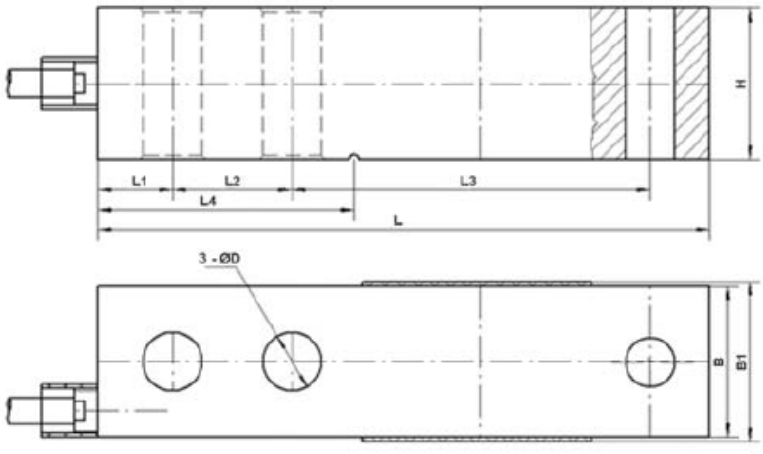
- Option XX. No mark is standard version, W4 is through loading hole, W6 is "T" end loading hole.
- Option SC (standard current).
- Cable option. No mark is 4 conductor cable and with a "6" a 6 conductor cable.
- Thread option. No mark is Metric Thread and "Y" is Imperial thread.
- Length of the cable 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

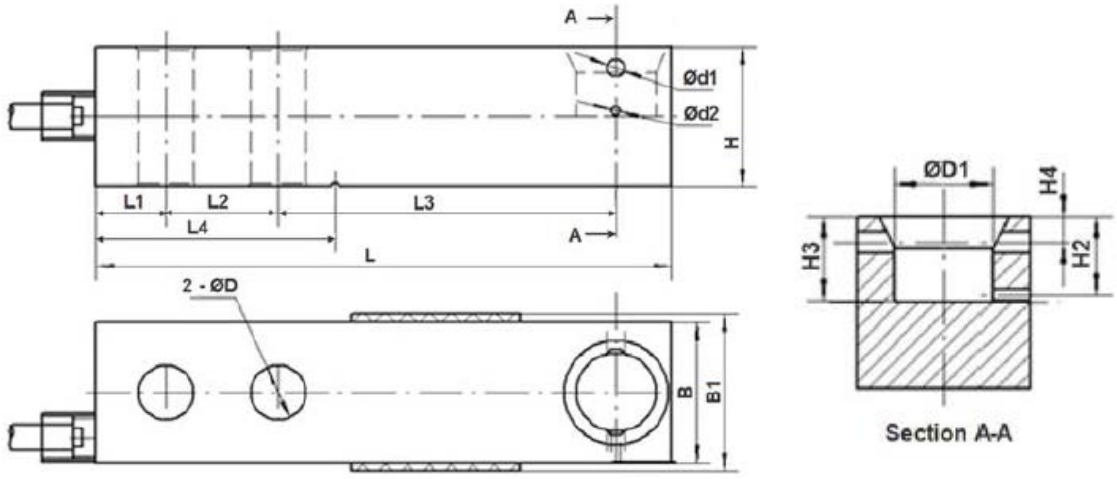


Option W4 version (Through loading hole)



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Option W6 version ("T" end loading hole)



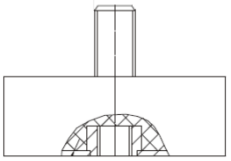
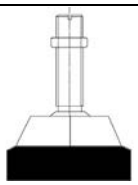
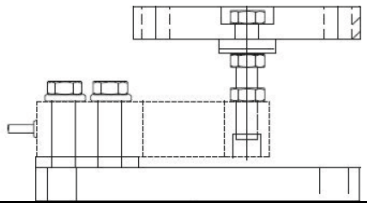
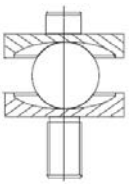
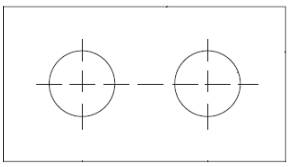
Dimension Capacity	L	L1	L2	L3	L4	B	B1	H	H1	H2	H3	H4	ØD	Ø D 1	Ø d 1	Ø d 2	M
0.1t-2t	130	15.8	25.4	76.2	54.2	31.8	34	31.8	15.8	14.5	15.8	4.8	13.5	18	4	2	M 12
2.5t-5t	171.5	19.1	38.1	95.3	77.2	38.1	40	38.1	18.8	17.5	18.8	4.8	19.8	25	4	2	M 18
10t	222.3	25.4	50.8	120.7	101.6	50.8	52.4	50.8	25.4	-	-	-	26	-	-	-	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 and height 46 mm • Nickel plated alloy steel • Easy installation	
HJ-8-213-0.5-2t foot • Ø60 and height 62 mm • Nickel plated alloy steel • Adjustable height	
HM-8-402-0.5-5 moun Nicke plate 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 Nicke plate allo Stee	

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