

Load Cell - SSM8D Series



- Stainless steel beam load cell
- Hermetically sealed IP68
- Suitable for platform, hopper and pallet scales
- High accuracy up to 6000 divisions approved
- Wide range of capacities

Capacity	Accuracy	Part-Number
150 kg		SSM8D-C3-150kg-6B-G1
300 kg		SSM8D-C3-300kg-6B-G1
500 kg		SSM8D-C3-500kg-6B
1t		SSM8D-C3-1t-6B-SC
1.5t		SSM8D-C3-1.5t-6B
2t	C3	SSM8D-C3-2t-6B-SC
2.5t		SSM8D-C3-2.5t-6B
3t		SSM8D-C3-3t-6B
5t		SSM8D-C3-5t-6B
7.5t		SSM8D-C3-7.5t-6B
10t		SSM8D-C3-10t-6B



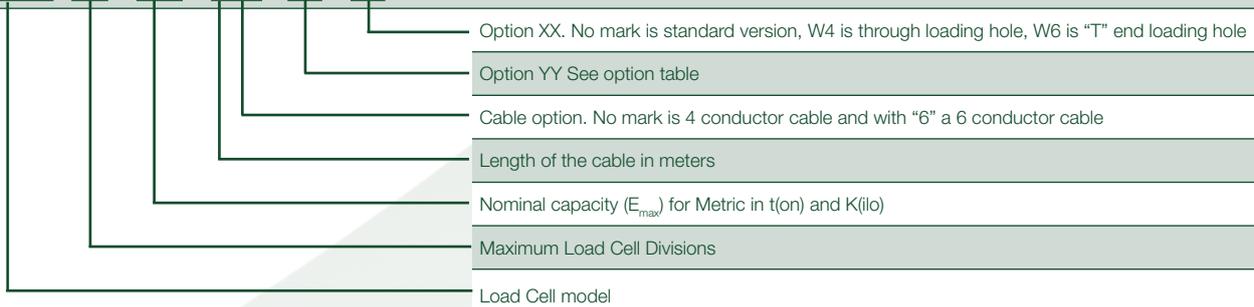
Specification:

Accuracy class	C3	
Maximum capacity (E_{max})	t	0.15, 0.3, 0.5, 1, 1.5, 2, 2.5, 3, 5, 7.5, 10
Output sensitivity	mV/V ^l	2.0 ± 0.04 / 3.0 ± 0.08
Current calibration	SC	See option table
Maximum number of load cell intervals (n_{LC})	n_{max}	3000
Ratio of minimum LC verification interval $Y = E_{max} / v_{min}$	Y	10000
Measuring principle	Bending till 0.3t - Shear above 0.5t	
Combined Error	%FS	≤ ± 0.023
Minimum dead load	t	0
Safe overload	of E_{max}	150 %
Ultimate overload	of E_{max}	300 %
Zero balance	of FS	≤ ± 1.0 %
Excitation, recommended voltage	V AC/DC	5 ~ 12
Excitation maximum	V AC/DC	18
Terminal resistance, input	Ω	350 ± 3.5
Terminal resistance, output	Ω	350 ± 3
Insulation impedance	MΩ	≥ 5000 (at 50VDC)
Temperature range, compensated	°C	-10 ... +40
Temperature range, operating	°C	-35 ... +65
Element material	Stainless steel	
Recommended torque on fixation bolts	Nm	M12: 100; M18: 200; M24: 700
Ingress Protection (according to EN 60529)	IP68	

Note 1: See option table for standard version and options

Ordering information:

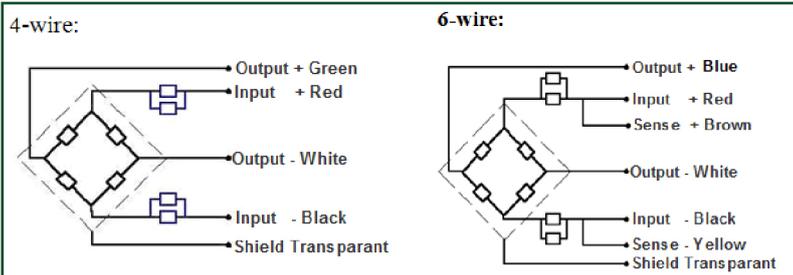
SSM8D- CX - 1.0t - 6BX - YY - XX



Option table

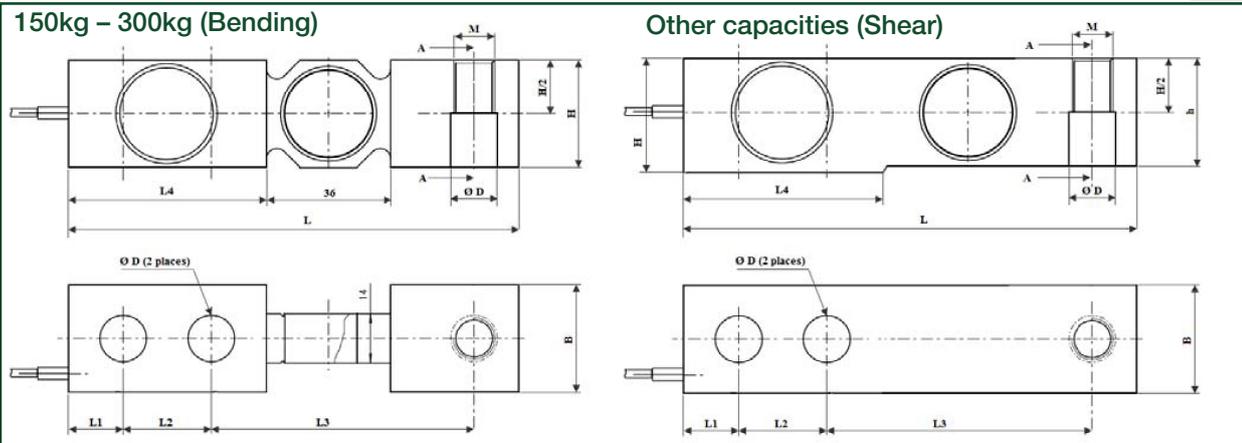
Options Capacity	YY			XX
0.15t	G1 (2mV/V-SC)	SC (2mV/V-SC)	None (2mV/V-SC)	W6 (T-end)
0.3t	Standard	Not available	Not available	Option only available in combination with G1 option
0.5t				
1t	Option	Option	Standard	
1.5t		Standard	Option	
2t		Option	Standard	
2.5t		Standard	Option	
3t		Option	Standard	
5t				
7.5t				
10t				Not available

Wiring:



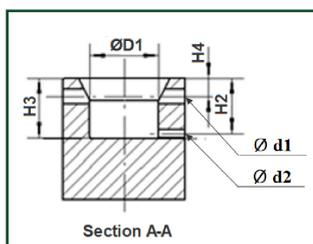
- Shielded, 4 conductor cable: Ø 5mm
- Standard cable length: 6m
- Shield is not connected to the element
- Cable type and length can be changed on customer's request

Outline dimensions in mm



Dimension	L	L1	L2	L3	L4	B	H	h	ØD	M
Capacity										
0.15t - 0.3t	130	15.7	25.4	76.2	57.1	31.3	31.3		13.5	M12x1.75
0.5t	130	15.7	25.4	76.2	57.1	31.3	31.3	24.8	13.5	M12x1.75
1t	130	15.7	25.4	76.2	57.1	31.3	31.3	26	13.5	M12x1.75
1.5t - 2t	130	15.7	25.4	76.2	57.1	31.3	31.3	28	13.5	M12x1.75
2.5t - 5t	171	19	38.1	95.2	76.2	36.8	36.8	34.8	20.5	M20x2.5
7.5t - 10t	222	25.4	50.8	120.7	101.6	49.5	49.5	47.5	26.9	M24x2

Option W6 Dimensions - Loading Hole



Dimension	ØD1	Ød1	Ød2	H2	H3	H4
Capacity						
0.15t - 0.3t	130	15.7	25.4	76.2	57.1	31.3
0.5t	130	15.7	25.4	76.2	57.1	31.3
1t	130	15.7	25.4	76.2	57.1	31.3
1.5t - 2t	130	15.7	25.4	76.2	57.1	31.3
2.5t - 5t	171	19	38.1	95.2	76.2	36.8