

SBRD Shear beam load cell



Product description

Industry standard size and wiring for industrial platform scales that do not require full hermetically sealed load cells. The SBRD -C3 is particularly useful for manufacturing medium capacity and yet rugged industrial weighing equipment such as platform scales or pallet truck weighing systems.

The digital SBRD -C3 shear beam load cell features embedded electronics that improve system accuracy and load cell handling and allows the user to communicate with each load cell independently.

Key features

Alloy steel rust-resistant construction

IP67 protection

Easy communication (RS485)

Improved handling of corner adjustment

Applications

Industrial platform scales

Pallet truck scales

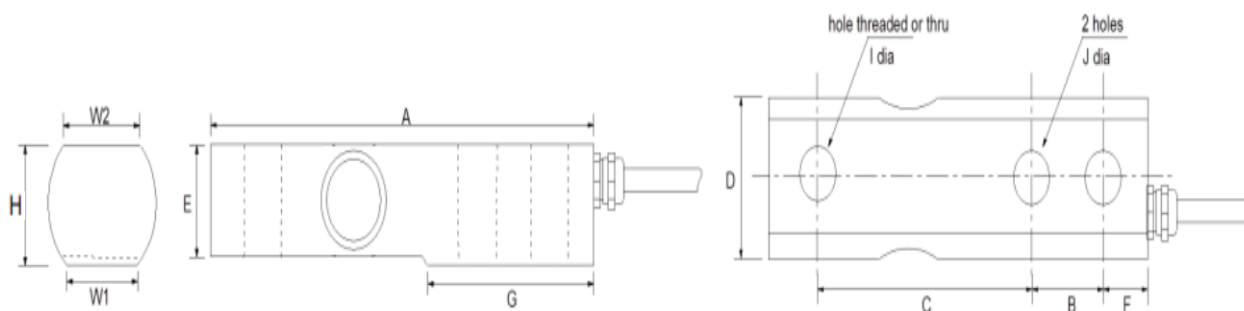
Tank weighing systems

Vessel weighing system

Specifications

Detailed specifications		
Accuracy class	C3	
Output sensitivity (= FS)	counts	200,000 ± 200 (± 0.1%*RO)
Maximum capacity (E _{max})	t	1, 2, 5, 10
Max.number of load cell intervals	nLC	3000
Ratio of min. LC verification interval	$Y = E_{max} / v_{min}$	10000
Combined Error	%FS	≤± 0.03
Minimum dead load	of E _{max}	0%
Safe overload	of E _{max}	150 %
Ultimate overload	of E _{max}	250 %
Zero balance	counts	± 2,000 (± 1%*RO)
Excitation, recommended voltage	V	5 ~ 12
Excitation maximum	V	15
Internal resolution	counts	500,000
Current consumption	mA	< 40
Baud Rate	bps	2400-4800-9600-19200-38400
Asynchronous interface		RS485 half duplex
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material	Alloy steel	
Ingress Protection (acc. To EN 60529)	IP67	

Product dimensions (mm)



Capacity (kg)	A	B	C	D	E	F	G	H	ØJ	W1	W2	ØI
250 – 1000	135	25.4	76.2	38.1	26	16	58.5	28	13	22	27	M12x1.75
2000	135	25.4	76.2	38.1	26	16	58.5	28	13	22	27	M12x1.75
5000	170	38.1	95.3	49.5	36	20	76	39	21	28.5	36	M18x1.5
10000	220	50.8	120.7	68	46	26	105	52	26	35.5	50	M24x2

*All dimensions in mm

Wiring

Shielded, 4 conductor cable.

Cable diameter: Ø5.0mm.

Standard cable length for 1t – 5t: 4m and for 10t: 6m.

