



Main Features:

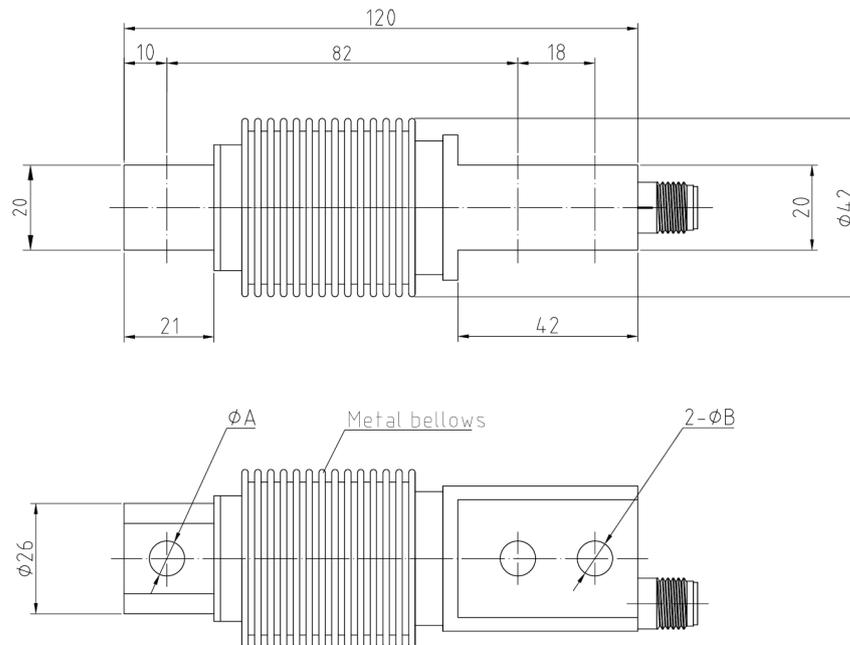
- Material: high-quality stainless steel
- Rated Capacities: 10kg~500kg
- CPA C8, CE and RoHS certified
- IP Rating: IP68 IP69K
- To be with dense corrugated sleeve to improve performance of low capacity
- To be with robust connector with external thread to fit cable protective tube
- Suitable for waterproof scales, process weighing equipment in Harsh working conditions
- Built-in real-time self-compensation microprocessor, high accuracy up to OIML R60 C10 and high reliability



Product description:

B570SD series is a true digital bending beam load cell with an accuracy of C10. The built-in microprocessor actively monitors environmental changes, continuously compensates various performances in real time, and indicates the parameter status of each load cells, ensuring the weighing result more accurate and stable. It is hermetically sealed with all stainless steel, compact and high-precision, and is suitable for a variety of process weighing industries, such as silo scales, tank scales, hopper scales, silo scales, etc.

Dimensions (mm&inch):



Rated Capacity	A	B
kg/mm		
10-200	8.2	8.2
300; 500	10.5	11.1

B570SD Digital Bending beamLoad Cell

Parameter		Units	Specification				
Model No.			B570SD				
Rated capacity (R.C.) ⁴⁾		t	10	20	50	100	200
Sensitivity at R.C.		d @ R.C.	500,000	400,000	500,000	500,000	400,000
Accuracy class ¹⁾²⁾			C3		C6	C10	
Min. dead load		kg	0				
Zero balance		% of E _{max}	± 1				
Y-value			10000	15000	22000		
Repeatability error		% of AL ³⁾	< ± 0.010	< ± 0.005	< ± 0.003		
Creep; 30 minute		% of AL	< ± 0.0167	< ± 0.0083	< ± 0.0050		
Min. dead load output return (DR); 30 min		% of AL	< ± 0.0167	< ± 0.0083	< ± 0.0050		
Temp. effect on	Min. dead load output	% of E _{max} /°C	< ± 0.0016	< ± 0.00107	< ± 0.0007		
	Rated output ¹⁾²⁾	% of AL/°C	< ± 0.00133	< ± 0.00066	< ± 0.0004		
Temperature range	Compensated	°C(°F)	-10 to +40 [+14 to +104]				
	Operating		-20 to +65 [-4 to +149]				
	Safe storage		-40 to +80 [-40 to +176]				
Effect of Cable Length on System Accuracy			0 (digital signal)				
Communication	Mode		CAN		RS485		
	Protocol		CANopen		Modbus RTU		
	Transmission rate		125 / 250 kbps		9600bps / 57600bps		
Effective refresh rate		HZ	40 (4pcs digital load cell,125kbps)		20 (4pcs digital load cell,9600bps)		
Excitation voltage	Recommended	V DC	12 or 24				
	Minimum / Maximum		7.5 / 28				
Excitation current	Typical value	mA	20				
	Max. value		150				
Warm-up time		mins	15				
Surge protective device			Integral (GDT+TVS)				
Insulation resistance @50VDC		MΩ	> 5000				
Breakdown voltage		V AC	> 500				
Protection	Type		Hermetically sealing				
	IP rating		IP68/69K				
Load limit	Safe dynamic load	% of E _{max}	70				
	Safe		150				
	Ultimate		300				
Material	Spring element		Stainless steel				
	Enclosure		316 stainless steel, hermetically sealing				
	Connectors		Quick-Connect with bayonet lock, 5 Pins,Glass-to-Metal seal				
	Strain gauge		PEEK				
	Cable construction		fireretardant and cold-resistant PVC, 6mm O.D. ; 5 Conductors triple shielded wires				
Cable length	Cell to cell	m	2.5 / 5 (standard configuration)				
	Network		No Junction box				
Weight; approx		kg	0.8				
Fatigue life		times @E _{max}	> 1,000,000				
Deflection at E _{max} ; approx		mm	< 0.5				
Barometric pressure effect on Zero Output		Vmin/kPa	< 1.0				
Fixing bolts	Size/ class		M8 / A2-70				
	Tightening torque	N.m	26				

Notes:

¹⁾ Error due to the combined effect of non-linearity and hysteresis

²⁾ The sum of errors due to Temperature Effect on Output comply with the requirements of OIML R60 and NIST HB44

³⁾ AL = Applied Load

⁴⁾ R.C. = Rated Capacity