

Single-Ended Beam Load Cell

FEATURES

- Capacities: 500 kg, 1 t, 2 t, and 5 t
- Low profile, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R60, 6000d
- 1000 Ω bridge impedance
- Current calibration output (SC) ensures easy and accurate connection of multiple load cells
- Integral mounting step
- Optional
 - ATEX versions are available for use in potentially explosive atmospheres, caused by gas or dust

APPLICATIONS

- · Platform scales
- · Belt scales
- · Overhead track scales
- Silo hopper weighing

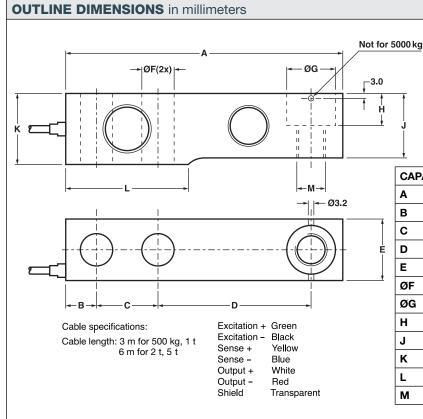


DESCRIPTION

The ACB is a high performance stainless steel beam type load cell. An integral mounting step removes the need for spacer plates and ensures optimum "bolt down" conditions.

This product is suitable for small and medium platform scales, hybrid scales, pallet weighers, and process weighing.

The fully welded construction and the cable entry ensure that this product can be used successfully in harsh environments found in the food, chemical, and allied process industries.



500 kg	1000 kg	2000 kg	5000 kg
130.0	130.0	130.0	172.0
15.5	15.5	15.5	19.1
25.4	25.4	25.4	38.1
76.2	76.2	76.2	95.3
31.8	31.8	31.8	38.0
13.0	13.0	13.0	20.5
20.5	20.5	20.5	30.2
14.2	14.2	14.2	20.0
26.0	27.95	31.95	40.0
31.8	31.8	35.8	44.0
57.1	57.1	57.1	76.2
M12	M12	M12	M20
	130.0 15.5 25.4 76.2 31.8 13.0 20.5 14.2 26.0 31.8 57.1	130.0 130.0 15.5 15.5 25.4 25.4 76.2 76.2 31.8 31.8 13.0 13.0 20.5 20.5 14.2 14.2 26.0 27.95 31.8 31.8 57.1 57.1	130.0 130.0 130.0 15.5 15.5 15.5 25.4 25.4 25.4 76.2 76.2 76.2 31.8 31.8 31.8 13.0 13.0 13.0 20.5 20.5 20.5 14.2 14.2 14.2 26.0 27.95 31.95 31.8 31.8 35.8 57.1 57.1 57.1

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Single-Ended Beam Load Cell

SPECIFICATIONS						
PARAMETER	VALUE			UNIT		
Standard capacities (E _{max})	500, 1000, 2000, 5000			kg		
Accuracy class according to OIML R-60	Non-Approved	C3	C6 (1)			
Maximum no. of verfication intervals (n)		3000	6000			
Minimum verification interval, (V _{min} E _{max} /Y)		E _{max} /6000	E _{max} /12,000			
Minimum verification interval, Type MR		E _{max} /15,000	E _{max} /20,000			
Rated output (=S)	2			mV/V		
Tolerance on rated output	0.02			±mV/V		
Zero balance	1.0			±% FSO		
Combined error	0.0500	0.0230	0.0120	±% FSO		
Non-repeatability	0.070	0.035	0.018	±% FSO		
Minimum dead load output return	0.0500	0.017	0.008	±% of applied load		
Creep error (30 minutes)	0.0600	0.0245	0.012	±% of applied load		
Temperature effect on minimum dead load	0.0250	0.0117	0.0058	±% FSO/5°C		
Temperature effect on sensitivity	0.0250	0.0088	0.0045	±% applied load/5°C		
Maximum safe over load	150			% E _{max}		
Ultimate over load	300			% E _{max}		
Maximum safe side load	100			% E _{max}		
Deflection at E _{max}	0.20, 0.20, 0.22, 0.31			mm		
Excitation voltage	5 to 12			V		
Maximum excitation voltage	15			V		
Input resistance	1000±50			Ω		
Output resistance	1000±10			Ω		
Insulation resistance	>5000			ΜΩ		
Compensated temperature range	-10 to +40			°C		
Operating temperature range	-40 to +80			°C		
Storage temperature range	-40 to +90			°C		
Element material (DIN)	Stainless steel 1.4542					
Sealing (DIN 40.050 / EN60.529)	IP66 and IP68					
SC-Version (current calibration)	Standard					
Recommended torque on fixation bolts	150			N*m		

⁽¹⁾ 500 kg is approved to C3 only

SC-version: The rated output and the output resistance are balanced in such a way, that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.

All specifications subject to change without notice.

FSO-Full Scale Output





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