

제품 소개



- SB14는 다양한 범위의 용량에서 사용할 수 있는 고정밀, 로우 프로파일 벤딩 빔입니다.
- 완전한 스테인레스 스틸 구조와 완전한 기밀 봉인은 까다로운 산업 분야에서 신뢰성과 정확성을 보장합니다.
- SB14는 셀프 - 얼라인먼트 피트와 결합 할 때 블라인드 홀 하중 도입 장치로 인해 고정밀 계량 플랫폼에 이상적인 선택입니다.

특징 Feature

- 스테인레스 스틸 구조
- 밀폐 봉인
- 넓은 용량 범위
- 높은 명중률

specifications

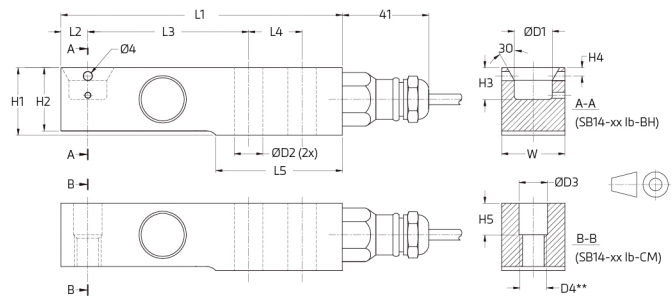
Maximum capacity (E _{max})	klb	0.5 / 1 / 2.5 / 5 / 10*		0.5 / 1 / 2.5 / 5
Metric equivalents (1 lb=0.45359 kg)	kg	227 / 454 / 1134 / 2,268 / 4,536		227 / 454 / 1,134 / 2,268
Accuracy class according to OIML R60		(GP)	C3	C3 Ml 6
Maximum number of verification intervals (n _{max})		n.a.	3,000	3,000
Minimum load cell verification interval (V _{min})		n.a.	E _{max} /11,500	
Temperature effect on minimum dead load output (TC ₀)	%*RO/10°C	± 0.0400	± 0.0122	
Temperature effect on sensitivity (TC _{R0})	%*RO/10°C	± 0.0200	± 0.0100	
Combined error	%*RO	± 0.0500	± 0.0200	± 0.0180
Non-linearity	%*RO	± 0.0400	± 0.0166	± 0.0166
Hysteresis	%*RO	± 0.0400	± 0.0166	± 0.0083
Creep error (30 minutes) / DR	%*RO	± 0.0600	± 0.0166	± 0.0083
Optional Min.load cell verification interval (V _{min} opt)		n.a.	E _{max} /23,000	
Optional Temp. effect on min. dead load output (TC ₀ opt)	%*RO/10°C	n.a.	± 0.0061	
Rated Output (RO)	mV/V	2 ± 0.1%		
Calibration in mV/V/Ω (A...J classified)	%	± 0.05 (± 0.005)		
Zero balance	%*RO	± 5		
Excitation voltage	V	5...15		
Input resistance (R _{ic})	Ω	1,100 ± 50		
Output resistance (R _{out})	Ω	1,000 ± 2		
Insulation resistance (100 V DC)	MΩ	≥ 5,000		
Safe load limit (E _{lim})	%*E _{max}	200		
Ultimate load	%*E _{max}	300		
Safe side load	%*E _{max}	100		
Compensated temperature range	°C	-10...+40		
Operating temperature range	°C	-40...+80 (ATEX -40...+60)		
Load cell material		stainless steel 17-4 PH (1.4548)		
Sealing		cable entry hermetically sealed by glass to metal header		
Protection according EN 60 529		IP68 (up to 2m water depth) / IP69K		
Packet weight	kg	1.2 (500-5,000lb), 2.44 (10,000lb)		

The limits for Non-Linearity, Hysteresis, and TC_{R0} are typical values.

The sum of Non-linearity, Hysteresis and TC_{R0} meets the requirements according to OIML R60 with p_{ic}=0.7.

* Only available in GP version.

product dimensions (mm)



Type	L1	L2	L3	L4	L5	H1	H2	H3	H4	H5	W	D1	D2	D3	D4	Mounting bolts	Torque *
500/1000 lb	133.4	12.7	76.2	25.4	59.9	31	28.8	15	4	15	30	18	13	13.5	M12	M12 8.8	90 Nm
2500 lb	133.4	12.7	76.2	25.4	59.9	31	30.5	15	4	15	30	18	13	13.5	M12	M12 8.8	90 Nm
5000 lb	133.4	12.7	76.2	25.4	59.9	31	30.5	15	4	15	30	18	13	13.5	M12	M12 10.9	120 Nm
10,000 lb	177.8	19.1	95.3	38.1	92.7	43.6	38.1	20.5	8	20.1	43	25	21	21.5	M20	M20 8.8	400 Nm

* Torque values assume oiled threads.

** Unified thread 1/2-20 UNF (500...5000 lb) and 3/4-16 UNF (10000 lb) is available. Type designation SB14-xx-CU.

wiring

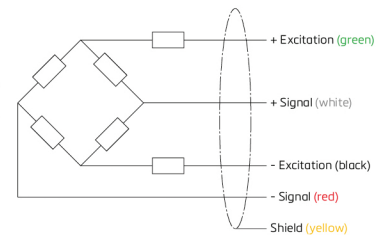
The load cell is provided with a shielded, 4 conductor cable (AWG 24).

Cable jacket: polyurethane

Cable length: 3 m for SB14-500lb to 5,000lb, 4.5 m for SB14-10,000lb

Cable diameter: 5 mm

The shield is floating (On request the shield can be connected to the load cell body)



RoHS compliant

