

Type SB2 Load Cell

SB2称重传感器



Important Features

- Capacities 45000 to 100000 lb.
- High accuracy.
- Complete hermetic sealing.
- Protection IP 68.
- W&M certified for 3000 intervals (PTB: D09-03.04).
- Unique "blind" loading hole.
- Calibration in mV/V/Ω.
- Factory Mutual approved.

Option

- Explosion protection zone 0, 1, 2 and 20, 21, 22 ATEX.

主要特点

- 量程：45000 到100000 lb
- 高精度
- 全金属焊接密封
- 防护等级IP68
- W&M认证,3000分度(PTB: D09-03.04).
- 盲孔安装
- 数字标定，标定精度0.05%
- FM、OIML、NTEP、CE、FM、Ex认证

附件

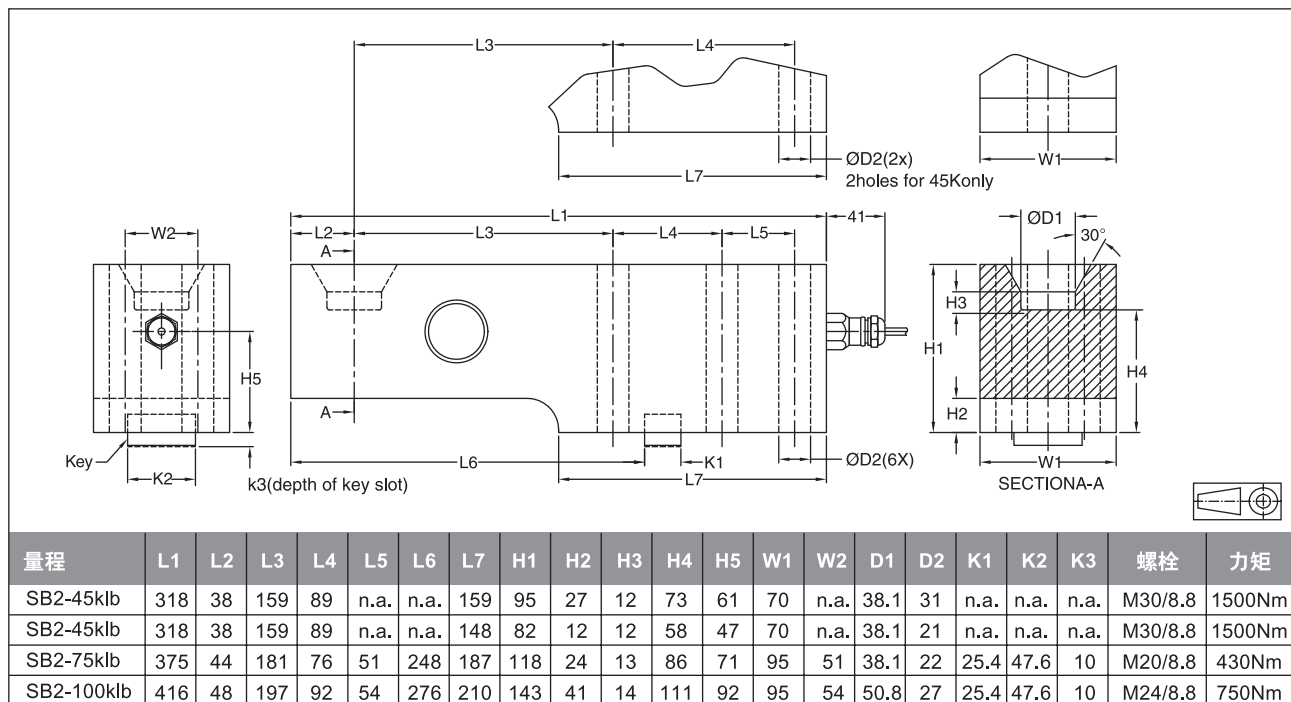
- 防爆保护区0, 1, 2和20, 21, 22 ATEX

SB2 Specifications 技术参数

Maximum capacity 量程(Emax)	lb	45000/75000/100000		
Metric equivalents (approx.) 公制	kg	20412/34020/45360		
Rated Output 输出灵敏度 (Cn)	mV/V	2 ± 0.1%		
Calibration in mV/V/Ω 数字标定精度	%Cn	≤ ± 0.05 (≤ ± 0.005)		
Accuracy class according to OIML R 60 精度等级		(GP)	C1	C3
Maximum number of verification intervals 最大检定分度数 (Nmax)		n.a.	1000	3000
Minimum load cell verification interval 最小检定分度 (Vmin)		n.a.	Emax/5100	Emax/11200
Combined error 综合误差	%Cn	≤ ± 0.040	≤ ± 0.030	≤ ± 0.020
Creep error (30 minutes)/DR 蠕变	%Cn	≤ ± 0.060	≤ ± 0.049	≤ ± 0.016
Temperature effect on minimum dead load output 零点温度系数	%Cn/°C	≤ ± 0.0040	≤ ± 0.0028	≤ ± 0.0012
Temperature effect on sensitivity 灵敏度温度系数	%/°C	≤ ± 0.0020	≤ ± 0.0015	≤ ± 0.0011

Excitation voltage 激励电压	V	5...15
Zero balance 零点平衡	%Cn	≤ ± 5
Input resistance 输入电阻	Ω	385 ± 20
Output resistance 输出电阻	Ω	351 ± 1
Insulation resistance 绝缘电阻 (100V DC)	MΩ	≥ 5000
Compensated temperature range 补偿温度范围	℃	-10...+40
Operating temperature range 工作温度范围	℃	-40...+80
Safe load limit 安全载荷限制 (Elim)	%E _{max}	200
Ultimate load 极限载荷	%E _{max}	300
Safe side load 安全侧载	%E _{max}	100
Load cell material 材料		tool steel; painted 工具钢
Sealing 密封		complete hermetic sealing; 全金属焊接密封
Protection according DIN 40.050 防护等级		IP 68

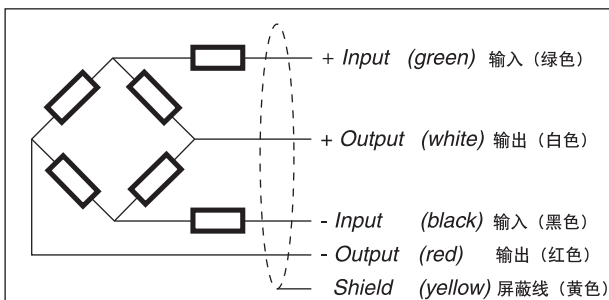
Dimensions 尺寸



All dimensions in mm. 所有尺寸单位mm.

*Torque values assume oiled threads. 力矩值是适用在油螺纹的情况下。

接线图



Wiring

- The load cell is provided with a shielded, 4 conductor cable (AWG 20). Cable jacket polyurethane.
- Cable length: 9.1 m for 45 klb, 10.7 m for 75 and 100 klb.
- Cable diameter: 7.6 mm.
- The shield is floating (On request the shield can be connected to the load cell body).

连线

- 称重传感器带屏蔽线，4线制电缆（AWG 20）。
- 电缆长度：对于45klb为9.1m.对于75和100klb为10.7m
- 电缆直径为：7.6 mm
- 屏蔽线悬浮（如果要求，屏蔽可与称重传感器本体相连）