



Product Description

The type SLB is a stainless steel beam type load cell with an improved potting. It is suitable for use in industrial environments.

Application

Platform scales, smail hopper and tank scales

Key Features

- Wide range of capacities from 200 lb to 5000 lb (91 kg to 2268 kg)
- Stainless steel construction
- Environmental Protection IP67
- Unique blind loading hole
- High input resistance
- Calibration in mV/V/ Ω

Approvals

- \blacksquare OIML approval to C3 (Y = 11500)
- NTEP approval to 7 500 intervals, Class III
- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval

Packed Weight

Capacity (lb) 200-2500 5000 Weight 1.2 (kg)

Available Accessories

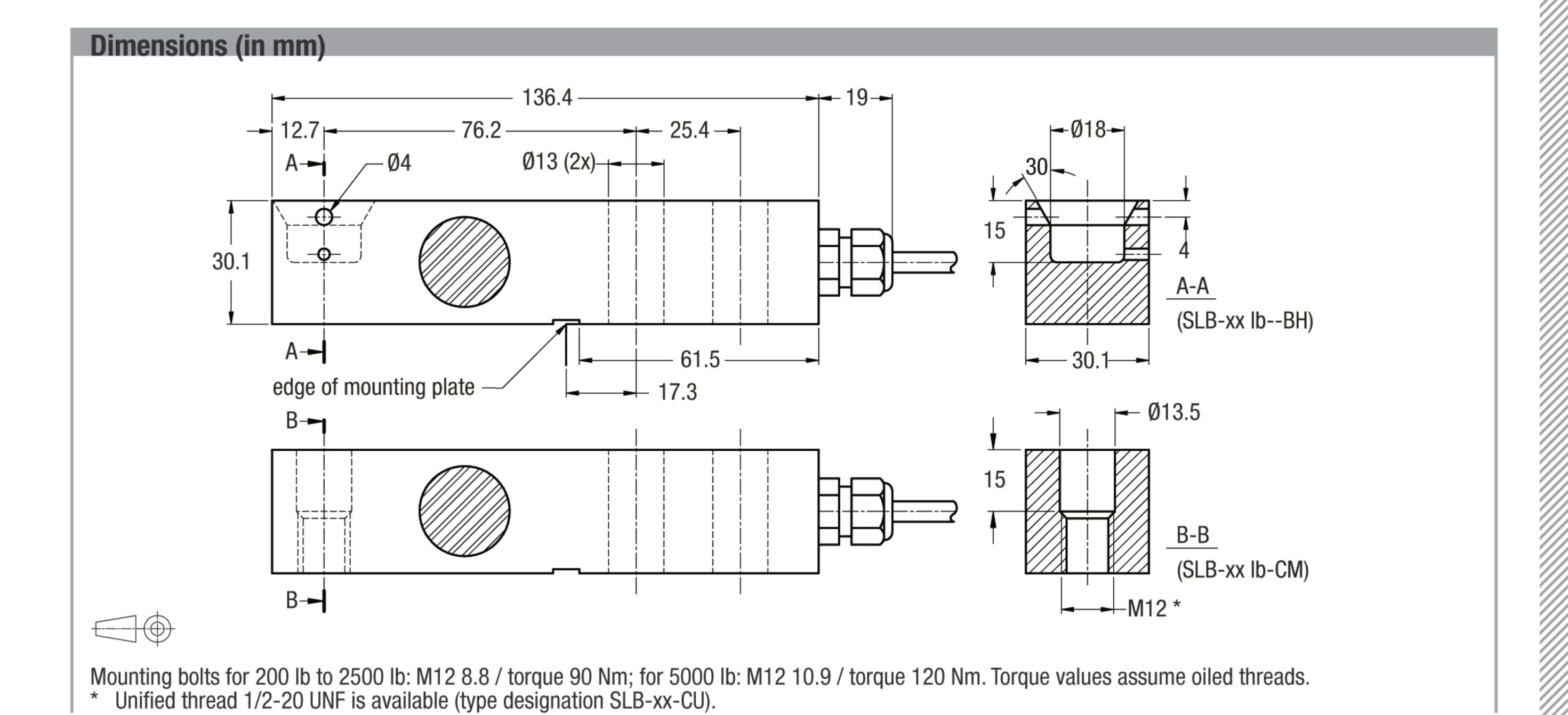
- Compatible range of application hardware
- Compatible range of electronics

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Maximum capacity	(E_{max})	lb l	200 / 500 / 1 000 / 2 500 / 5 000	
Metric equivalents (1 lb=0.45359 kg)		kg	91 / 227 / 454 / 1 134 / 2 268	
Accuracy class according to OIML R60			(GP)	C3
Maximum number of verification intervals	(n _{max})		n.a.	3 0 0 0
Minimum load cell verification interval	(v _{min})		n.a.	E _{max} /11 500
Temperature effect on minimum dead load output	(TC_0)	%*R0/10°C	≤ ± 0.0400	≤ ± 0.0122
Temperature effect on sensitivity	(TC _{RO})	%*R0/10°C	≤ ± 0.0200	≤ ± 0.0100
Combined error		%*R0	≤ ± 0.0500	≤ ± 0.0200
Non-linearity		%*R0	≤ ± 0.0400	≤ ± 0.0166
Hysteresis		%*R0	≤ ± 0.0400	≤ ± 0.0166
Creep error (30 minutes) / DR		%*R0	≤ ± 0.0600	≤ ± 0.0166
Rated Output	(R0)	mV/V	2 ± 0.1%	
Calibration in mV/V/Ω (Al classified)		%	≤ ± 0.05 (≤ ± 0.005)	
Zero balance		%*R0	≤ ± 5	
Excitation voltage		V	515	
Input resistance	(R _{LC})	Ω	1100 ± 50	
Output resistance	(Rout)	Ω	1000 ± 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	-20+65 (ATEX -20+60)	
Load cell material			stainless steel 17-4 PH (1.4548)	
Sealing			potted	
Protection according EN 60 529			IP6	67

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_{LC} =0.7.

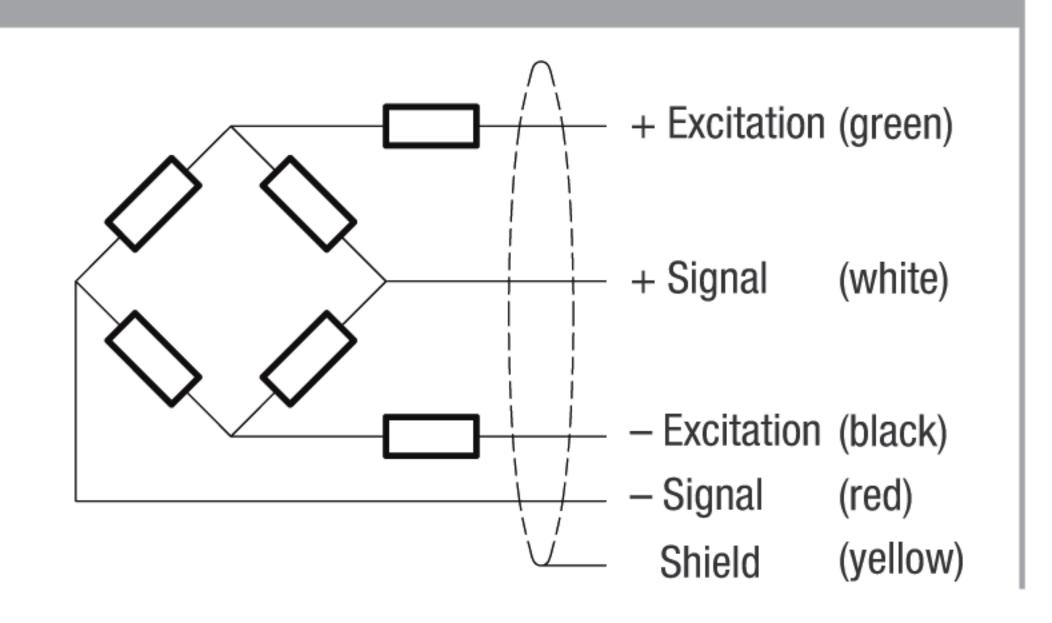


Wiring

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

Cable length: 3 m Cable diameter: 5 mm

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



A24-Rev5-GB-2(2) Specifications and dimensions are subject to change without notice.