



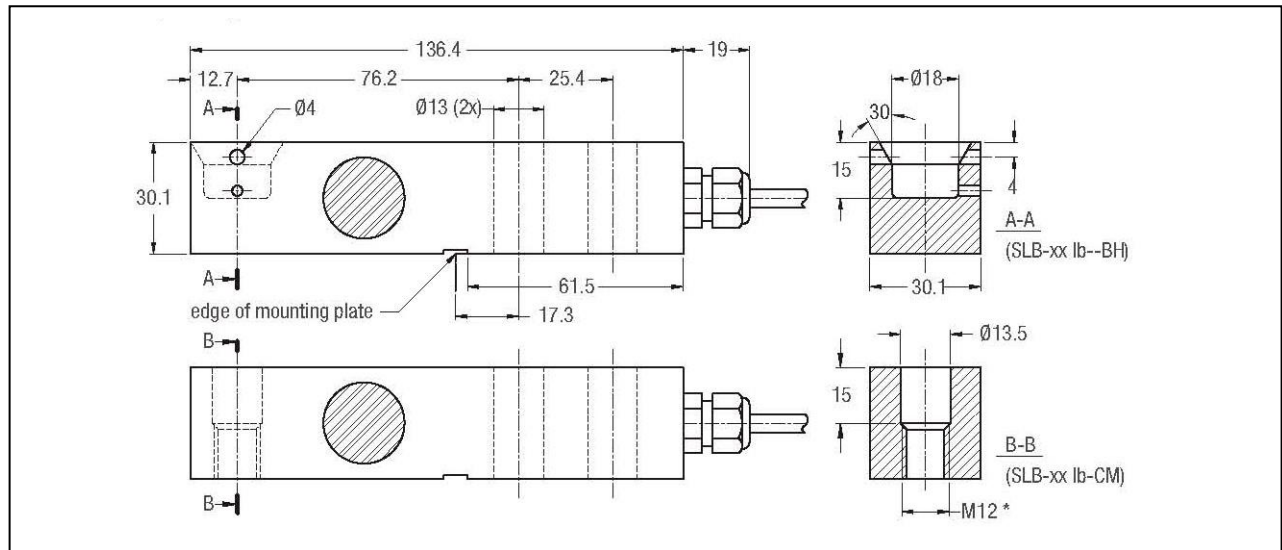
The HI SB01 is a stainless steel beam type load cell with an improved potting. It is suitable for use in industrial environments.

- Wide range of capacities from 200 lb to 5000 lb (91 kg to 2 268 kg)
- Stainless steel construction
- Environmental Protection IP67
- Unique blind loading hole available
- High input resistance
- Calibration in mV/V/Ω

### HI SB01 Specifications

Maximum Capacity ( $E_{max}$ )	lb	200 / 500 / 1000 / 2500 / 5000
Rated Output (=RO)	mV/V	$2 \pm 0.1\%$
Accuracy class according to OIML R60		C3
Maximum number of verification intervals ( $n_{max}$ )		3000
Maximum load cell verification interval ( $V_{min}$ )		$E_{max}/1500$
Combined error	%·RO	$\leq \pm 0.0200$
Non-linearity	%·RO	$\leq \pm 0.0166$
Hysteresis	%·RO	$\leq \pm 0.0166$
Creep error (30 minutes) / DR	%·RO	$\leq \pm 0.0166$
Temperature effect on minimum dead load output ( $TC_0$ )	%·RO/10°C	$\leq \pm 0.0122$
Temperature effect on sensitivity ( $TC_{RO}$ )	%·RO/10°C	$\leq \pm 0.0100$
Excitation voltage	V	5... 15
Zero balance	%·RO	$\leq \pm 5$
Input resistance ( $R_{LC}$ )	Ω	$1100 \pm 50$
Output resistance ( $R_{out}$ )	Ω	$1000 \pm 2$
Insulation resistance	MΩ	$\geq 5000$
Compensated temperature range	°C	-10... +40
Operating temperature range	°C	-20... +65(ATEX -20...+60)
Safe load limit ( $E_{lim}$ )	%· $E_{max}$	200
Ultimate load	%· $E_{max}$	300
Safe side load	%· $E_{max}$	100
Load cell material		Stainless steel 17-4 PH (1.4548)
Sealing		potting
Protection according DIN 60 529		IP67
Calibration in mV/V/Ω (A...I classified)	%	$\leq \pm 0.05 (\leq \pm 0.005)$
Weight	Kg	1.1- 1.2

### Dimensions



All dimensions in mm. Dimensions and specifications are subject to change without notice.

Mounting bolts for 200 lb to 2500 lb: M12 8.8 / torque 90Nm; for 5000 lb: M12 10.9 / torque 120 Nm. Torque values assume oiled threads.

\*Unified thread 1/4 -20 UNC is available.

### Wiring

- The load cell is provided with a shielded, 6 conductor cable.
- Cable length: 3 m
- Cable diameter: 5 mm
- The shield is floating

