

## Product Description

The type SB61C is an aluminium single point load cell with an improved potting.

## Application

- Retail scales and bench scales

## Key Features

- Capacity of 50 kg
- Rated output with tight tolerances for easy load cell replacement, no re-calibration required
- Aluminium construction
- Environmental Protection IP67
- Low profile design
- Maximum platform size up to 250 x 250 mm
- Mounting holes compatible with SB6, SB8 and ZLB

## Packed Weight

- 0.4 kg

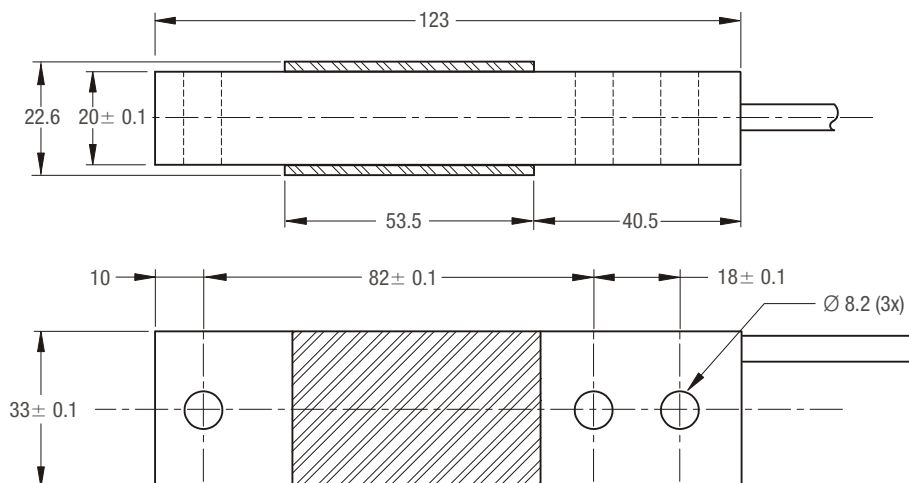
## Available Accessoires

- Compatible range of electronics

### Specifications

Maximum capacity	(E <sub>max</sub> )	kg	50
Accuracy class		%*E <sub>max</sub>	± 0.1
Maximum number of intervals	(n <sub>LC</sub> )		1000
Minimum load cell interval		g	50
Temperature effect on minimum dead load output	(TC <sub>0</sub> )	%*R <sub>0</sub> /10°C	≤ ± 0.0400
Temperature effect on sensitivity	(TC <sub>R0</sub> )	%*R <sub>0</sub> /10°C	≤ ± 0.0200
Combined error		%*R <sub>0</sub>	≤ ± 0.0400
Creep error (30 minutes) / DR		%*R <sub>0</sub>	≤ ± 0.0600
Rated output	(R <sub>0</sub> )	mV/V	2 ± 0,1%
Zero balance		%*R <sub>0</sub>	≤ ± 1
Excitation voltage		V	5...15
Input resistance	(R <sub>LC</sub> )	Ω	390 ± 10
Output resistance	(R <sub>out</sub> )	Ω	330 ± 25
Insulation resistance (100 V DC)		MΩ	≥ 5000
Safe load limit	(E <sub>lim</sub> )	%*E <sub>max</sub>	200
Ultimate load		%*E <sub>max</sub>	300
Safe side load		%*E <sub>max</sub>	100
Maximum platform size; loading acc. OIML R76		mm	250 x 250
Maximum off center distance at maximum capacity		mm	95
Maximum off center error		%*E <sub>max</sub>	± 0,1
Compensated temperature range		°C	-10...+40
Operating temperature range		°C	-20...+65
Load cell material			aluminium
Sealing			potted
Protection according EN 60 529			IP67

### Dimensions (in mm)



Mounting bolts M8 8.8; torque 25 Nm. Torque value assumes oiled threads.

### 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 connected to the load cell body

