

## Product Description

The type ZLB is a very low profile Planar Beam load cell. Its unique Flintec design allows for an extremely low scale construction. Type ZLB offers an aluminium construction with industrial potting making it suitable for use in industrial environments.

## Approvals

- OIML approval to C3 (Y = 7 500)
- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval

## Application

- Compact scales, bench and floor scales, counting scales as well as other special applications

## Packed Weight

■ Capacity (kg)	20	50	100	200
Weight (kg)	0.46	0.49	0.49	0.53

## Key Features

- Capacities from 20 kg to 200 kg
- Aluminium construction
- Environmental Protection IP67
- Very low profile design
- High input resistance
- Calibration in mV/V/Ω
- Mounting compatible to SB6 and SB8

## Available Accessories

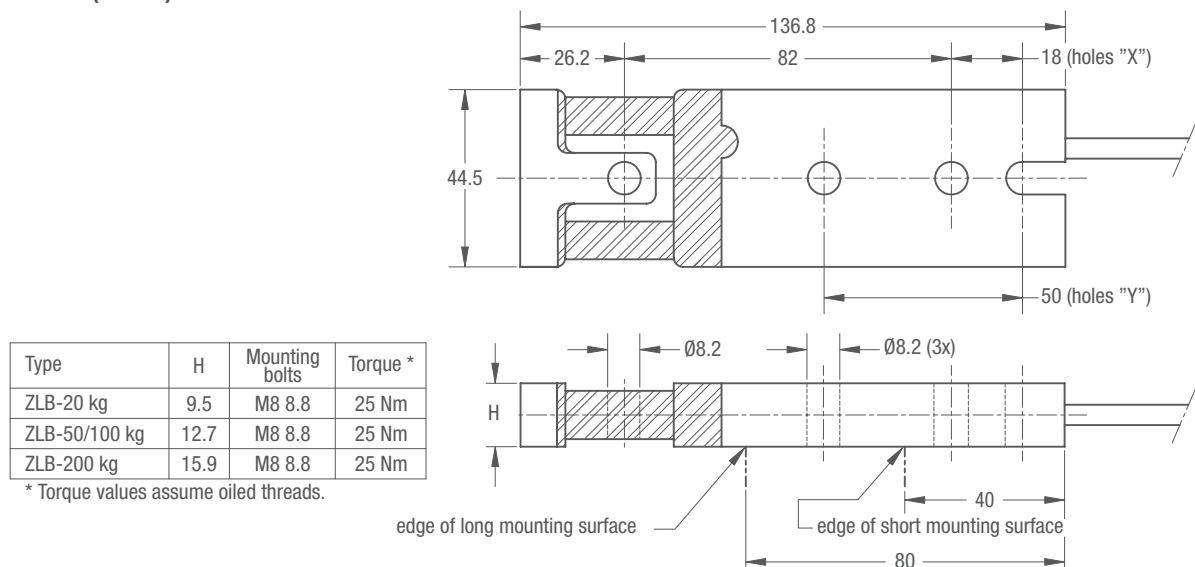
- Load mounts
- Compatible range of electronics

### ZLB Specifications

	(E <sub>max</sub> )	kg	20 / 50 / 100 / 200		
			(GP)	C1	C3
Accuracy class according to OIML R60					
Maximum number of verification intervals	(n <sub>max</sub> )		n.a.	1 000	3 000
Minimum load cell verification interval	(v <sub>min</sub> )		n.a.	E <sub>max</sub> /5 000	E <sub>max</sub> /10 000
Temperature effect on minimum dead load output	(TC <sub>0</sub> )	%*RO/10°C	≤ ± 0.0400	≤ ± 0.0280	≤ ± 0.0140
Temperature effect on sensitivity	(TC <sub>RO</sub> )	%*RO/10°C	≤ ± 0.0200	≤ ± 0.0160	≤ ± 0.0100
Combined error		%*RO	≤ ± 0.0500	≤ ± 0.0300	≤ ± 0.0200
Non linearity		%*RO	≤ ± 0.0400	≤ ± 0.0300	≤ ± 0.0166
Hysteresis		%*RO	≤ ± 0.0400	≤ ± 0.0300	≤ ± 0.0166
Creep error (30 minutes) / DR		%*RO	≤ ± 0.0600	≤ ± 0.0490	≤ ± 0.0166
Rated Output	(RO)	mV/V		2 ± 0.1%	
Calibration in mV/V/Ω		%		≤ ± 0.05	
Zero balance		%*RO		≤ ± 5	
Excitation voltage		V		5...15	
Input resistance	(R <sub>LC</sub> )	Ω		1 180 ± 50	
Output resistance	(R <sub>out</sub> )	Ω		1 000 ± 2	
Insulation resistance (100 V DC)		MΩ		≥ 5 000	
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	
Compensated temperature range		°C		-10...+40	
Operating temperature range		°C		-20...+65 (ATEX -20...+60)	
Load cell material				aluminium	
Sealing				potting	
Protection according DIN 40.050				IP67	

The limits for Non-Linearity, Hysteresis, and TC<sub>RO</sub> are typical values.  
The sum of Non-linearity, Hysteresis and TC<sub>RO</sub> meets the requirements according to OIML R60 with p<sub>LC</sub>=0.7.

### Dimensions (in mm)



Note:  
It is recommended to use mounting holes "Y" on an 80 mm mounting surface.  
Mounting holes "X" can be used on a short (40 mm) mounting surface.  
If so, a steel spacer (80 mm long and 10 mm thick) is required for the 200 kg load cell.

### 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)

