



Product Description

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

Application

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

Key Features

- Capacities from 20 kg to 200 kg
- Stainless steel construction
- Environmental Protection IP67
- Very low profile design
- High input resistance

Packed Weight

- Approx. 0.8 kg

Available Accessories

- Load mounts
- Compatible range of electronics

Specifications

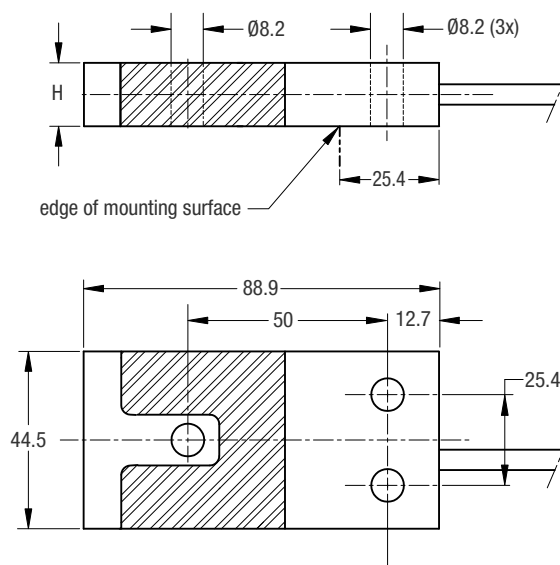
Maximum capacity	(E _{max})	kg	20 / 50 / 100 / 200	
Accuracy class			(GP)	G3*
Maximum number of verification intervals	(n _{max})		n.a.	3000
Minimum load cell verification interval	(v _{min})		n.a.	E _{max} / 5000
Temperature effect on minimum dead load output	(TC ₀)	%*R0/10°C	± 0.0400	± 0.0140
Temperature effect on sensitivity	(TC _{R0})	%*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%	
Zero balance		%*R0	≤ ± 5	
Excitation voltage		V	5...15	
Input resistance	(R _{LC})	Ω	1106 ± 50	
Output resistance	(R _{out})	Ω	1000 ± 2	
Insulation resistance (100 V DC)		MΩ	≥ 5000	
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	
Load cell material			stainless steel	
Sealing			potting	
Protection according EN 60 529			IP67	

* Fulfills the corresponding accuracy class C3 according OIML R60, but no OIML test certificate is available.
The limits for Non-Linearity, Hysteresis, and TC_{R0} are typical values.

Dimensions (in mm)

Type	H	Mounting bolts	Torque *
ZLS-20....100 kg	9.5	M8 8.8	25 Nm
ZLS-200 kg	12.7	M8 8.8	25 Nm

* Torque values assume 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 floating
(On request the shield can be connected to the load cell body)

