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# ZLS planar beam load cell



## product description

The ZLS is an all stainless steel planar beam offering high accuracy in a low overall height. Environmentally protected using potting material. Available in a range of capacities from 20kg thru to 200kg it is ideally suited to a range of general measurement tasks where overall height is a restraining factor.

## applications

Low profile scales, Process weighing systems

## key features

Capacities from 20 kg to 200 kg

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Stainless steel construction

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Environmentally sealed by potting to IP67

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Very low profile

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High input resistance

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## accessories

Load mounts

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Compatible range of electronics

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RoHS  
compliant



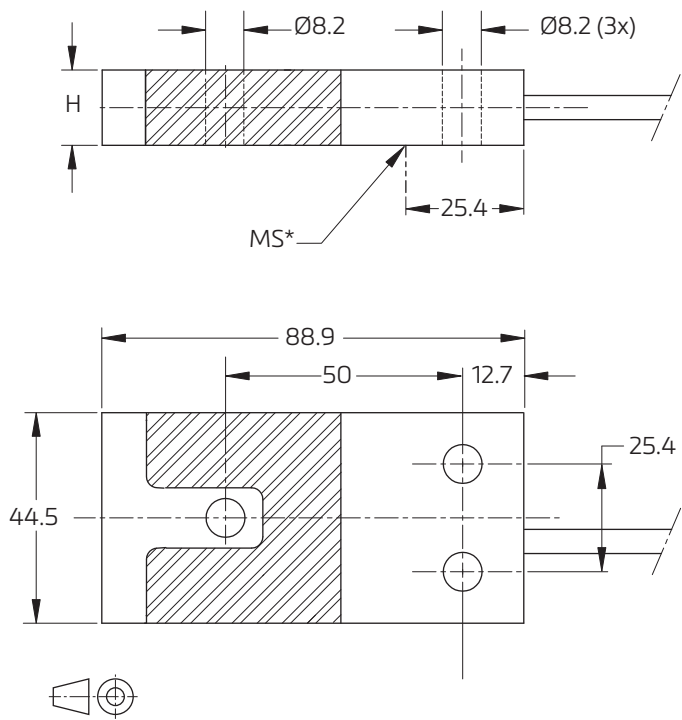
## specifications

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 ( $TC_0$ )	%*RO/10°C	± 0.0400	± 0.0140
Temperature effect on sensitivity ( $TC_{RO}$ )	%*RO/10°C	± 0.0200	± 0.0100
Combined error	%*RO	± 0.0500	± 0.0200
Non-linearity	%*RO	± 0.0400	± 0.0166
Hysteresis	%*RO	± 0.0400	± 0.0166
Creep error (30 minutes) / DR	%*RO	± 0.0600	± 0.0166
Rated Output (RO)	mV/V	2 ± 0.1%	
Zero balance	%*RO	≤ ± 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	
Packet weight	kg	0.8 (approx)	

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



## product dimensions (mm)



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

\* Torque values assume oiled threads  
 \*MS – Edge of mounting surface

## wiring

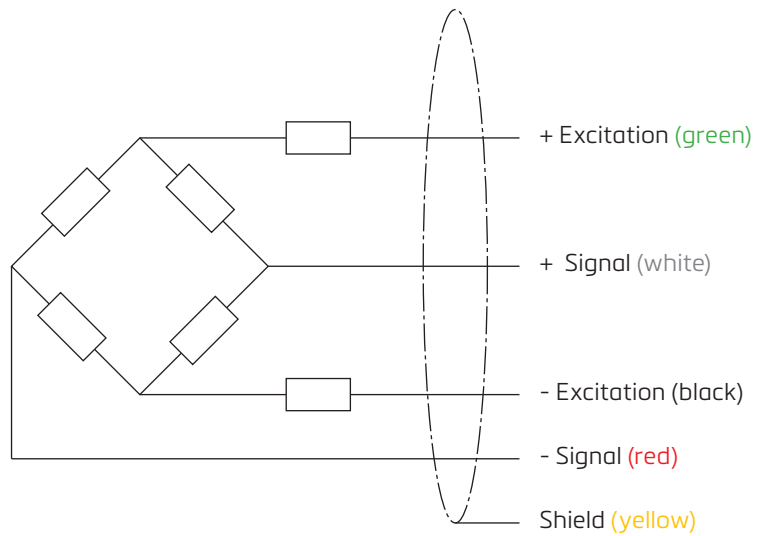
The load cell is provided with a shielded, 4 conductor cable (AWG 24).

Cable jacket: polyurethane

Cable length: 3 m

Cable diameter: 5 mm

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



Specifications and dimensions are subject to change without notice.