

ZEMIC, Type B8D Load Cell



Short Description



- Stainless steel IP67 shear beam load cell (250kg is bending beam load cells)
- Suitable for floor scales, automobile test facilities, hopper scales and other weighing devices
- Current calibrated (sc-option)

 Test certificate no. TC8010 Revision 0 and D09-05.19
C of C no R60/2000-NL1-11.28 and R60/2000-CN1-06.05
 Certificate no. 12-022

Available Models

Capacity	Accuracy	Full Article Description
250kg	C3/C4/C5	B8D-C3/C4/C5-250kg-6B
500kg	C3/C4/C5	B8D-C3/C4/C5-500kg-6B
1t	C3	B8D-C3-1t-6B
2t	C3	B8D-C3-2t-6B
5t	C3	B8D-C3-5t-6B

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Technical Specifications B8D

Accuracy Class		OIML R60 C3			OIML R60 C4	OIML R60 C5
Output Sensitivity (= FS)	mV/V	3.0 ± 0.008				
Maximum Capacity (E _{max})	t	0.25	0.5, 1, 2	5	0.25, 0.5	
Max. Number of Load Cell Intervals	n _{LC}	3000			4000	5000
Ratio of min. LC Verification Interval	Y = E _{max} / v _{min}	10000	7500	9000	10000	18000
Combined Error	%FS	≤± 0.023			≤± 0.018	≤± 0.014
Creep Error (30 minutes)	%FS	≤± 0.016			≤± 0.012	≤± 0.012
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.015			≤± 0.010	≤± 0.014
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.011			≤± 0.009	≤± 0.007
Zero Balance	%FS	≤± 1.0				
Safe Overload	%FS	150				
Ultimate Overload	%FS	300				
Maximum Deflection	mm	~0.2 – 0.3				
Excitation, Recommended Voltage	V	5 ~ 12				
Excitation, Maximum Voltage	V	18				
Input Resistance	Ω	350 ± 3.5				
Output Resistance	Ω	350 ± 3.5				
Insulation Resistance (50V)	MΩ	≥5000				
Compensated Temperature	°C	-10 ~ + 40				
Operating Temperature	°C	-35 ~ + 70				
Load Cell Weight	kg	0.25t – 2t: 0.9 ~ 1.1			5t: 1.6	
Element Material		Stainless Steel				
Ingress Protection (acc. to EN 60529)		IP67				
Recommended Torque on Fixation Bolts	Nm	M12: 75			M20:450	
ATEX Classification (optional)		II 1G Ex ia IIC T4 Ga		II 1D Ex ia IIIC T ₂₀₀ 135°C Da		II 3G Ex ic IIC T4 Gc

Wiring

Features:

Cable type: Shielded, 4 conductor cable , conductor AWG 22
 Cable diameter: Ø 5.0mm
 Cable length: 6m
 Cable jacket: Polyurethane
 Shield not connected to element

4-Wire Connection Diagram

