Type H8C Load Cell

Short Description

- Nickel plated alloy steel IP67 shear beam load cell (100kg & 250kg are bending beam load cells)
- Adhesive sealed
- Suitable for platform weighing, bed weighing, etc.
- High accuracy
- High reliability
- Current calibrated (SC-option)

Test certificate no. TC8012 Revision 1
C of C no R60/2000-NL1-12.12

Certificate no. 12-028

Available Models

Capacity	Accuracy	Full Article Description
100kg	C3/C4/C5	H8C-C3/C4/C5-100kg-4B(-SC-W6)
250kg	C3/C4/C5	H8C-C3/C4/C5-250kg-4B(-SC-W6)
500kg	C3/C4/C5	H8C-C3/C4/C5-500kg-4B(-SC-W6)
750kg	C3/C4/C5	H8C-C3/C4/C5-750kg-4B(-SC-W6)
1t	C3/C4/C5	H8C-C3/C4/C5-1.0t-4B(-SC-W6)
1.5t	C3/C4/C5	H8C-C3/C4/C5-1.5t-4B(-SC-W6)
2t	C3/C4/C5	H8C-C3/C4/C5-2.0t-4B(-SC-W6)
2.5t	C3/C4/C5	H8C-C3/C4/C5-2.5t-6B(-SC-W6)
3t	C3/C4/C5	H8C-C3/C4/C5-3.0t-6B(-SC-W6)
5t	C3/C4/C5	H8C-C3/C4/C5-5.0t-6B(-SC-W6)
10t	C3/C4/C5	H8C-C3/C4/C5-10t-6B(-SC-W6)

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Technical Specifications H8C

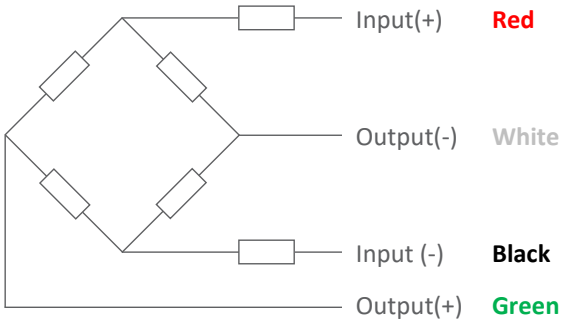
Accuracy Class		OIML R60 C3	OIML R60 C4	OIML R60 C5	
Output Sensitivity (= FS)	mV/V	3.0 ± 0.003			
Maximum Capacity (E_{max})	t	0.1, 0.25, 0.5, 075, 1, 1.5, 2, 2.5, 3, 5, 10		0.1, 0.25, 0.5, 0.75, 1, 1.5, 2, 2.5	3, 5, 10
Max. Number of Load Cell Intervals	n_{LC}	3000	4000	5000	
Ratio of min. LC Verification Interval	$Y = E_{max} / v_{min}$	10000	15000	20000	18000
Combined Error	%FS	≤± 0.023	≤± 0.0175	≤± 0.014	
Creep Error (30 minutes)	%FS	≤± 0.016	≤± 0.012	≤± 0.010	
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.015	≤± 0.010	≤± 0.007	
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.011	≤± 0.009	≤± 0.008	
Zero Balance	%FS	≤± 1.0			
Safe Overload	%FS	150			
Ultimate Overload	%FS	300			
Maximum Deflection	mm	0.1t – 0.2t: 0.3	0.5t – 5t: ~ 1.2	10t: 0.8	
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 ~ + 65			
Storage Temperature	°C	-40 ~ + 80			
Load Cell Weight	kg	0.1t – 2.0t: ~ 0.9	2.5t – 5t: ~ 1.7	10t: ~ 3.6	
Element Material		Nickel plated alloy steel			
Ingress Protection (acc. to EN 60529)		IP67			
Recommended Torque on Fixation Bolts	Nm	M12: 100	M18:200	M24:700	
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

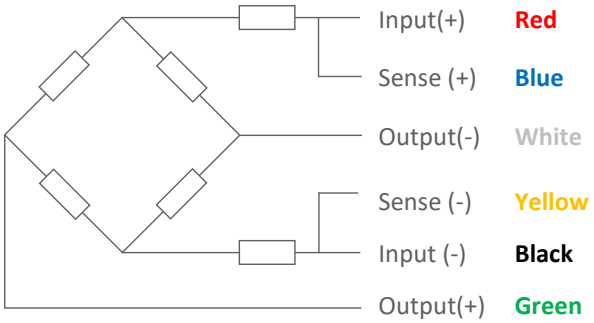
Features:

Cable type: Shielded, 4 or 6 conductor cable, conductor AWG 22 (4-wire) & AWG 24 (6-wire)
Cable diameter: Ø 5.0mm
Cable length: 4m for 100kg – 2t; 6m for higher capacities
Cable jacket: Polyurethane
Shield not connected to element

4-Wire Connection Diagram



6-Wire Connection Diagram



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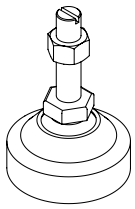
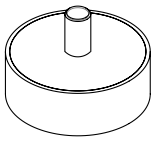
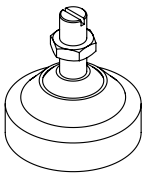
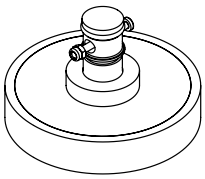
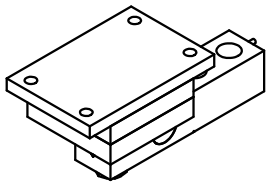
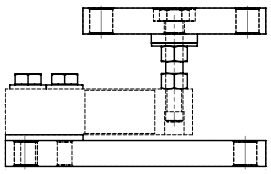
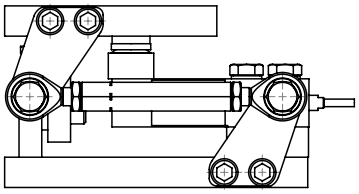
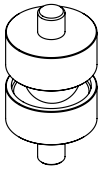
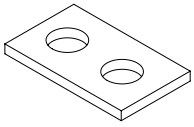
Available Accessories

HJ-8-201-0.1-10t Foot • Ø60-86mm and height 92-112 mm • Nickel plated alloy steel • Adjustable height	
HJ-8-203-0.1-2t Foot • Ø67mm and height 46 mm • Nickel plated alloy steel • Very easy installation	
HJ-8-213-0.5-2t Foot • Ø60mm and height 62 mm • Nickel plated alloy steel • Adjustable height	
HJ-8-236-0.25-5t Foot (for -W6 type) • Ø80mm and height 50 mm • Nickel plated alloy steel • Adjustable mount	
Elastomer-0.5-10t • Easy installation • Suitable for shock load	
HM-8-402-0.5-5t Mount • Nickel plated alloy steel • Adjustable mounting height • Easy installation	
HM-8-901-0.1t-2t/2.5t-5t Mount • Nickel plated alloy steel • Lift-off and horizontal movement protection • Easy installation, including load cell dummy	
HY-8-102-0.5-5t Ball Foot • Nickel plated alloy steel • Easy installation • Good self-alignment ability	
HD-8-301-0.5-10t Spacer Plate • Nickel plated alloy steel spacer plate • 3 Different sizes for various capacities	

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