



Short Description



- Nickel plated alloy steel IP67 shear beam load cell (100kg & 250kg are bending beam load cells)
- Suitable for platform weighing, container and tank scales, bed weighing, etc.
- High accuracy
- High reliability
- Current calibrated (SC-option)
- Optional T-hole force introduction available (W6 version)
- Optionally with through hole (W4 version)



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)

Type H8C Load Cell

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)

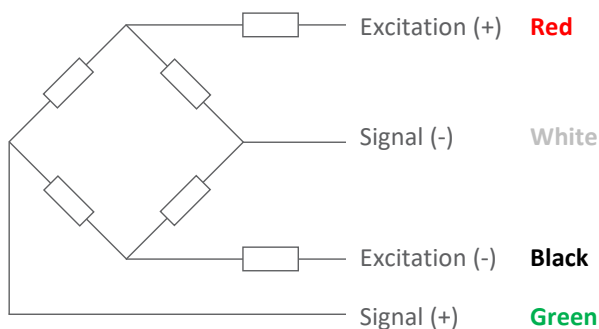
Cable diameter: Ø 5.0mm

Cable length: 4m for 100kg – 2t; 6m for higher capacities

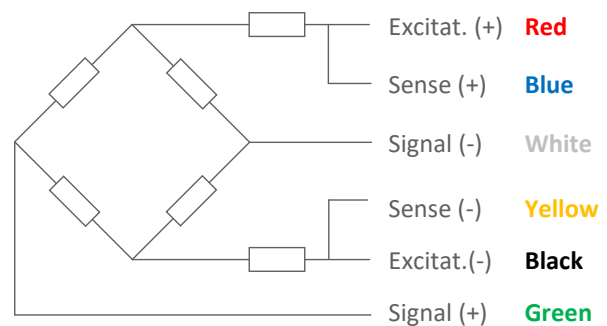
Cable jacket: Polyurethane

Shield not connected to element

4-Wire Connection Diagram



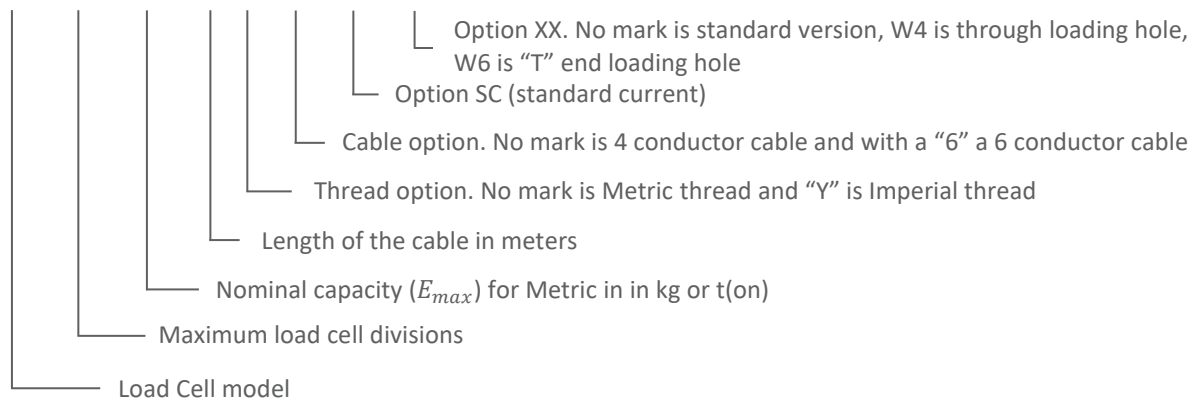
6-Wire Connection Diagram



Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

Ordering Info

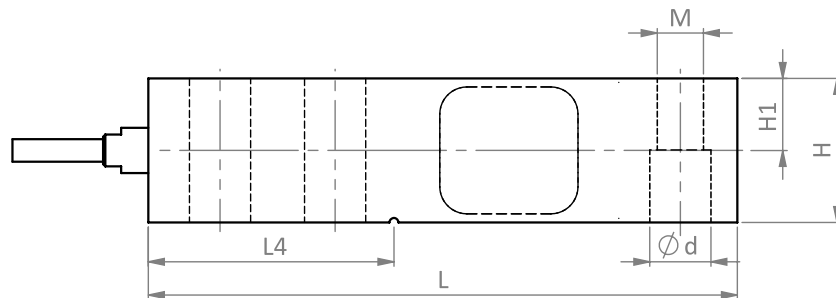
H8C – C3 – 1.0t – 4 – – BX – SC – XX



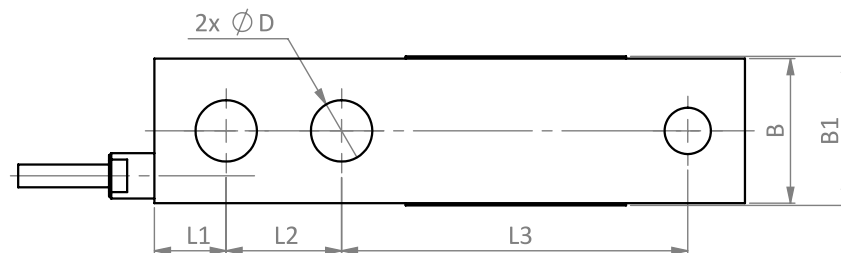
Dimensions in mm

Standard Version

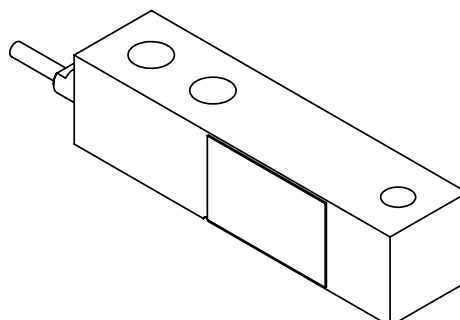
Side View



Top View



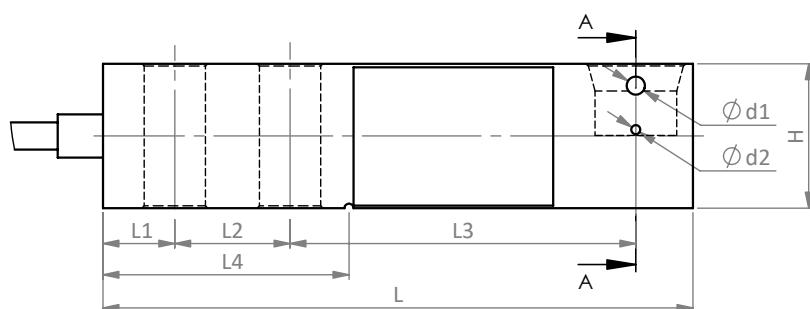
Isometric View



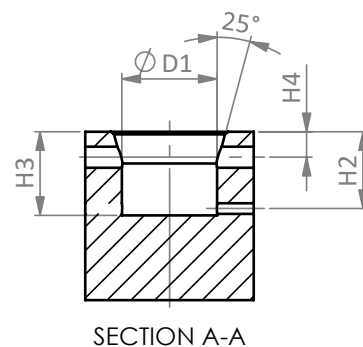
Type H8C Load Cell

Option W6 version ("T" end loading hole)

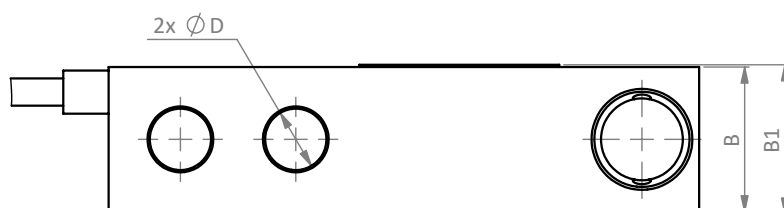
Side View



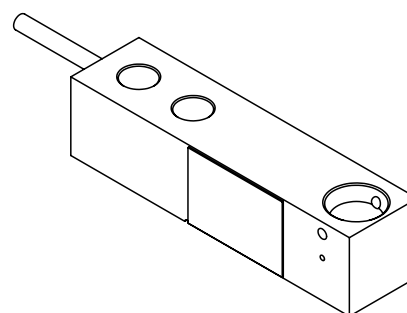
Front View



Top View

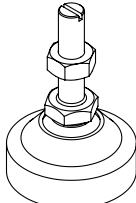
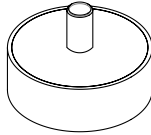
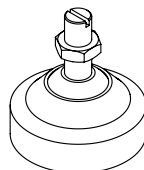
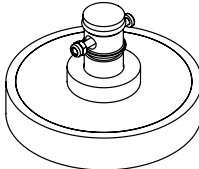
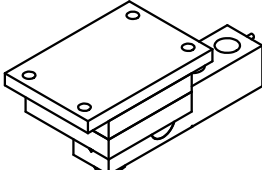
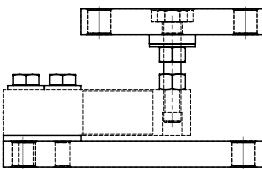
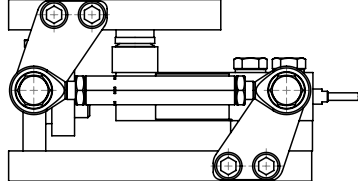
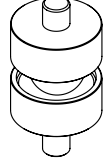


Isometric View



Capacity Dimension	100kg – 250kg	0.5t-2t	2.5t-5t	10t
L	130	130	171.5	222.3
L1	15.8	15.8	19.1	25.4
L2	25.4	25.4	38.1	50.8
L3	76.2	76.2	95.3	120.7
L4	54.2	54.2	77.2	101.6
B	31.8	31.8	38.1	50.8
B1	37	34	40	52.4
H	31.8	31.8	38.1	50.8
H1	15.8	15.8	18.8	25.4
H2	14.5	14.5	17.5	-
H3	15.8	15.8	18.8	-
H4	4.8	4.8	4.8	-
ØD	13.5	13.5	19.8	26
ØD1	18	18	25	-
Ød1	4	4	4	-
Ød2	2	2	2	-
M	12 x 1.75	12 x 1.75	18 x 1.5	24 x 2

Available Accessories

HJ-8-201-0.1t/2t & 2.5t/5t & 10t Foot • Ø 60-80-86mm and height 92-105-112 mm • Nickel plated alloy steel • Adjustable height • Self-centering	
HJ-8-203-0.1 – 2t Foot • Ø 67mm and height 46 mm • Nickel plated alloy steel • Very easy installation	
HJ-8-213-0.1 – 2t Low Profile Foot • Ø 60mm and height 64 mm • Nickel plated alloy steel • Adjustable height	
HJ-8-236-0.1 – 5t Foot (for -W6 type) • Ø 60/80/125mm and height 41-50/70-91 mm • Zinc plated alloy steel • Adjustable height	
Elastomer H8C 0.1 – 2t/5t/10t • Suitable for shock load • 3 Different versions for various capacities • Easy installation	
HM-8-402-0.1 – 2t/2.5 – 5t/10t 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-8-102-0.1 – 5t Ball Foot • Nickel plated alloy steel • Easy installation • Good self-alignment ability	
HD-8-301-0.1 – 2t/2.5 – 5t/10t Spacer Plate • Nickel plated alloy steel spacer plate • 3 Different sizes for various capacities	