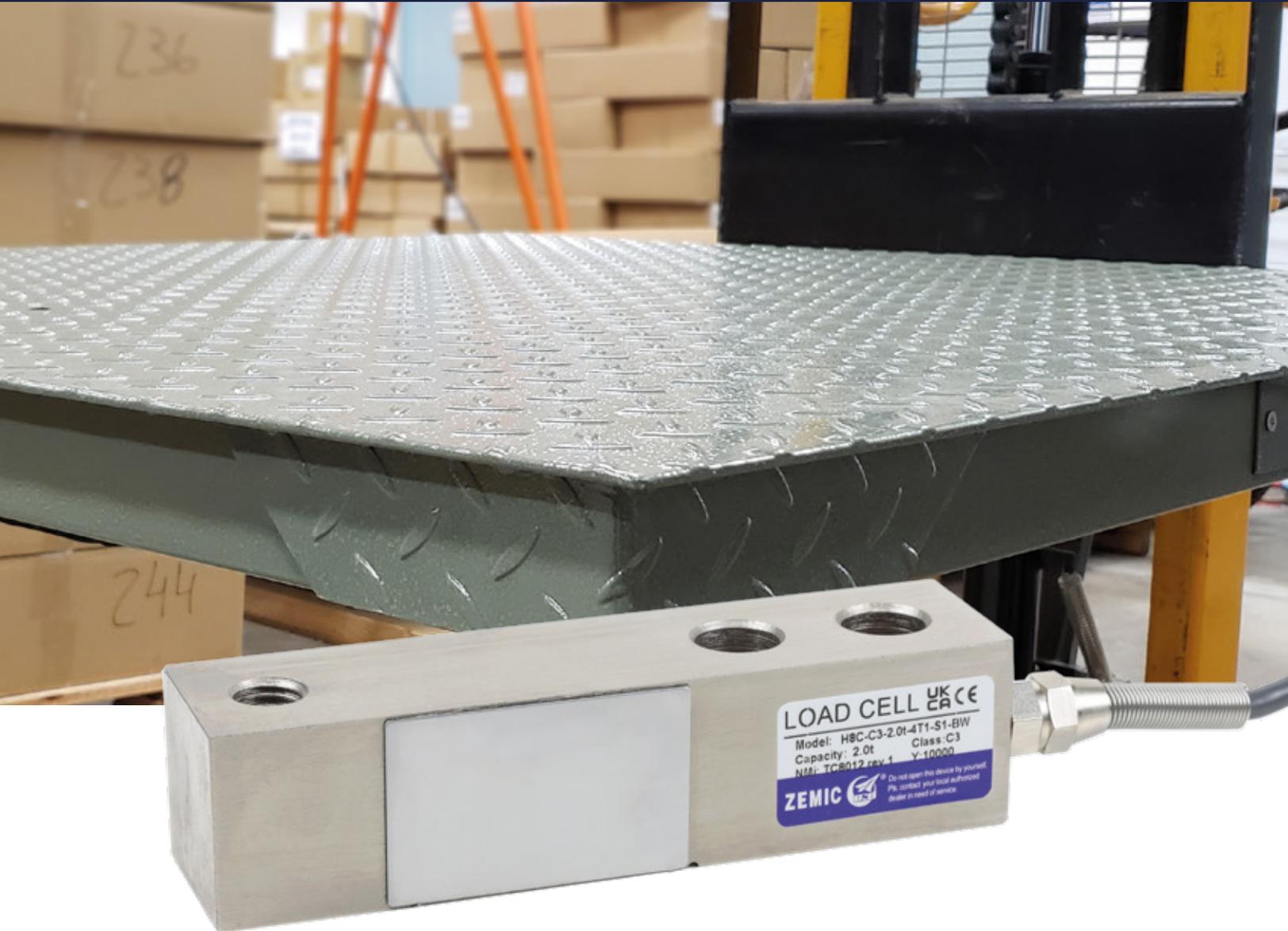


 weightechUSA

H8C

SHEAR BEAM LOAD CELL



Developed in nickel-plated steel alloy with precision class C3, for multi-point platforms, silos and small tanks

H8C_datasheet_v01_r1 - 29/02/2024

Technical review: Loui Oriqui | Comercial review: Eber Santos

Editor: Isabel Carmo



H8C

LOAD CELL

The H8C is a low-profile shear beam load cell designed for high-accuracy platform scales, pallet scales, and process weighing applications. Has high immunity to shock or side loading and is available in 3 mV/V sensitivity. It has high resistance to water jets, making it ideal for use in applications that require high cleaning standards.

Approved to OIML, NTEP standards. For hazardous environments, this load cell is available with EEx ia IIC T6 level of European approval. Nickel plating and full environmental sealing assure long-term reliability. A stainless steel option is available for the lb versions for use in harsh or corrosive environments.

FEATURES

- Capacities: 1klb~20klb and 0.5t~10t
- Precision class C3
- Made from alloy steel
- IP68 degree of protection
- OIML Certificates n°: R60/2000-CN-00.02
- PTB Approval n°:D09-01.19 Rev. 2
- NTEP Certificates n° CC07-012
- 4-wire, 3m long cable

APPLICATIONS

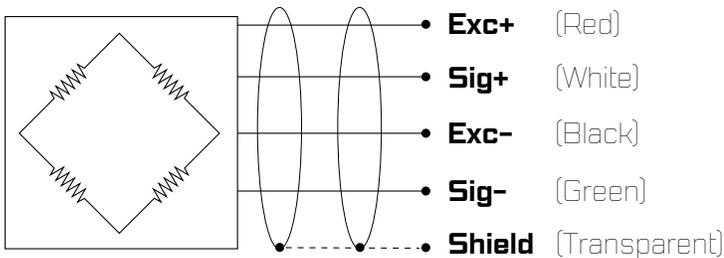
- Multipoint platforms
- Pallet scales
- Livestock scales
- Process weighing applications



SPECIFICATIONS

Maximum capacity/E max	t	0.5/1/1.5/1/2.5/3/5/10				
	Klb	1/1.5/2/2.5/3/4/5/5KSE/7.5/10/20				
Accuracy	-	C2	C3	C4	A5M	B10M
Approvals	Nmax		OIML R60 C3		III 5000 Multiple	III 10000 Multiple
Maximum number of verification intervals	Vmin	2000	3000	4000	5000	10000
Minimum load cell verification interval	(%FS)	E _{max} /5000	E _{max} /10000	E _{max} /14000	E _{max} /15000	E _{max} /10000
Combined error	(%FS/30mim)	≤± 0.030	≤± 0.020	≤± 0.018	≤± 0.026	≤± 0.050
Creep	(°FS/10°C)	≤± 0.024	≤± 0.016	≤± 0.012	≤± 0.017	≤± 0.040
Temperature effect on sensitivity		≤± 0.017	≤± 0.011	≤± 0.009	≤± 0.013	≤± 0.040
Temperature effect on zero	(mv/v)	≤± 0.023	≤± 0.015	≤± 0.010	≤± 0.014	≤± 0.020
Output sensitivity		2.0 ± 0.002		3.0 ± 0.003		
Input resistance	Ω	350 ± 3.5				
Output resistance		350 ± 3.5				
Insulation resistance	MΩ	≥ 5000 (50VDC)				
Zero Balance	%FS	1.0				
Temperature, compensated	°C	-10 ~ +40				
Temperature, operating		-35 ~ +65				
Excitation, recommended	V	5 ~ 12 (DC)				
Excitation, max		18 (DC)				
Safe overload	(°FS)	150				
Ultimate overload		300				
Note: output sensitivity of type is 2.0±0.002	-					

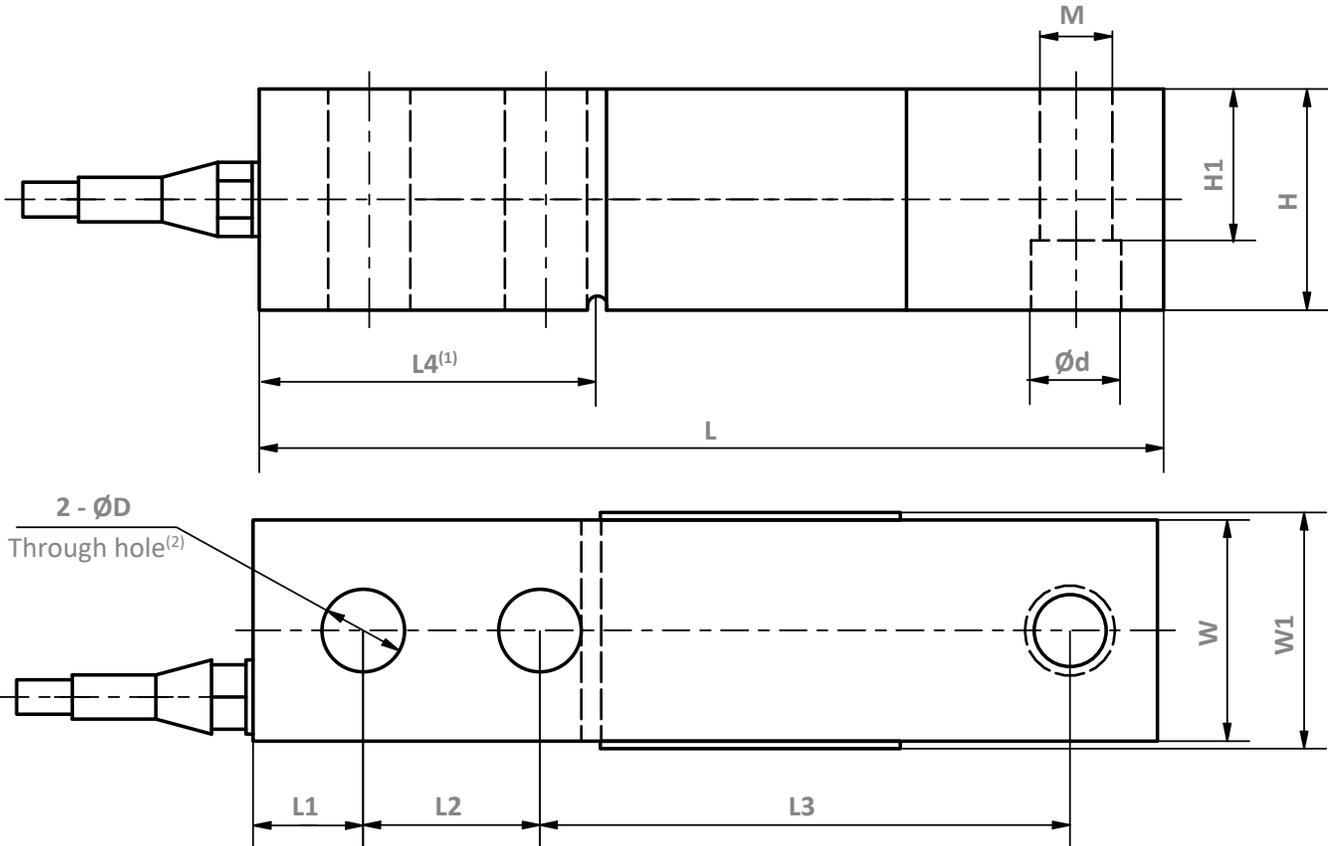
CABLE DIAGRAM



Cable length: 3m

OUTLINE DIMENSIONS in millimeters (inch)

H8C-XXX-XXX-XW and H8X-XXX-XXX-XB



Capacidade/Dimension	L	L1	L2	L3	L4	H	H1	W	W1	D	d	M
0.5t ~ 2t	130 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	15.8 (0.62)	31.8 (1.25)	34 (1.34)	13.5 (0.53)	13.5 (0.53)	M12 x 1.75
1K - 4K	130 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	15.8 (0.62)	31.8 (1.25)	34 (1.34)	13.5 (0.53)	13.5 (0.53)	1/2-20UNF
5KSE	130 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	15.8 (0.62)	31.8 (1.25)	34 (1.34)	13.5 (0.53)	13.5 (0.53)	1/2-20UNF
2.5t ~ 5t	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	77.2 (3.04)	31.8 (1.25)	18.8 (0.74)	31.8 (1.25)	40 (1.57)	19.8 (0.78)	19.8 (0.78)	M18 x 1.5
5K - 10K	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	77.2 (3.04)	31.8 (1.25)	18.8 (0.74)	31.8 (1.25)	40 (1.57)	19.8 (0.78)	19.8 (0.78)	3/4-16UNF
10T	222.3 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	101.6 (4)	50.8 (2.0)	25.4 (1.0)	50.8 (2)	52.4 (2.06)	26.92 (1.06)	26 (1.02)	M24 x 2
20K	222.3 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	101.6 (4)	50.8 (2.0)	25.4 (1.0)	50.8 (2)	52.4 (2.06)	26.92 (1.06)	26 (1.02)	1-12UNF

(1) Only for versions H8C-XXX-XXX-XW

(2) Only for versions H8C-XXX-XXX-XB

PART NUMBER

Products	Capacities	Codes
Zemic's Load Cell H8C-C3-1.0t-4B	1000kg	12607
Zemic's Load Cell H8C-C3-1.5t-4B	1500kg	12608
Zemic's Load Cell H8C-C3-10t-6B	10000kg	12613
Zemic's Load Cell H8C-C3-2.0t-4B	2000kg	12609
Zemic's Load Cell H8C-C3-250KG	250kg	12605
Zemic's Load Cell H8C-C3-2.5t-6B	2500kg	12610
Zemic's Load Cell H8C-C3-3.0t-6B	3000kg	12611
Zemic's Load Cell H8C-C3-500KG	500kg	12606
Zemic's Load Cell H8C-C3-5.0t-6B	5000kg	12612
Zemic's Load Cell H8C-N5-1.0K-6YB	100lb	10607
Zemic's Load Cell H8C-N5-1.0K-6YB	1000lb	10610
Zemic's Load Cell H8C-N5-1.5K-6YB	1500lb	10611
Zemic's Load Cell H8C-N5-10K-6YB	10000lb	10619
Zemic's Load Cell H8C-N5-15K-6YB	15000lb	10620
Zemic's Load Cell H8C-N5-2.0K-6YB	2000lb	10612
Zemic's Load Cell H8C-N5-2.5K-6YB	2500lb	10613
Zemic's Load Cell H8C-N5-20K-6YB	20000lb	10621
Zemic's Load Cell H8C-N5-250-6YB	250lb	10608
Zemic's Load Cell H8C-N5-3.0K-6YB	3000lb	10614
Zemic's Load Cell H8C-N5-4K-6YB	4000lb	10615
Zemic's Load Cell H8C-N5-5.0K-6YB	5000lb	10617
Zemic's Load Cell H8C-N5-500-6YB	500lb	10609
Zemic's Load Cell H8C-N5-5K5E-6YWB-5C	5000 lb SE	10616
Zemic's Load Cell H8C-N5-7.5K-6YB	7500lb	10618
Zemic's Load Cell H8C-N5-750-6YB	750lb	12614

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MORE INFO



PRODUCT PAGE