

Type H9C Load Cell



Short description



- Nickel plated alloy steel IP67 dual shear beam load cell
- High accuracy
- Suitable for truck and track scales and other heavy weighing devices
- Sealed construction



test certificate no. D09-07.07



Certificate no. 07-018A1

Available models

Capacity	Accuracy	Full article description
5Klb	C3/C4	H9C-C3/C4-5K-9B
10Klb	C3/C4	H9C-C3/C4-10K-9B
20Klb	C3/C4	H9C-C3/C4-20K-9B
30Klb	C3	H9C-C3-30K-9B
40Klb	C3	H9C-C3-40K-9B
50Klb	C3	H9C-C3-50K-9B
60Klb	C3	H9C-C3-60K-9B
75Klb	C3	H9C-C3-75K-9B
100Klb	C3	H9C-C3-100K-9B
150Klb	C3	H9C-C3-150K-9B
200Klb	C3	H9C-C3-200K-9B
250Klb	C3	H9C-C3-250K-9B

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

Detailed specifications H9C

Accuracy class		OIML R60 C3	OIML R60 C4
Output sensitivity (= FS)	mV/V	3.0 ± 0.008	
Maximum capacity (E _{max})	Klb	5, 10, 20, 30, 40, 50, 60, 75, 100, 150, 200, 250	5, 10, 20
Max. number of load cell intervals	n _{LC}	3000	4000
Ratio of min. LC verification interval	Y = E _{max} / v _{min}	10000	15000
Combined Error	%FS	≤± 0.0230	≤± 0.0175
Minimum dead load	Of E _{max}	0%	
Maximum side load	Of E _{max}	100%	
Safe overload	Of E _{max}	150 %	
Ultimate overload	Of E _{max}	300 %	
Zero balance	Of FS	< ± 1.0 %	
Excitation, recommended voltage	V	5 ~ 12	
Excitation maximum	V	18	
Input resistance	Ω	700 ± 7	
Output resistance	Ω	700 ± 7	
Insulation resistance	MΩ	≥5000 (at 50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +80	
Element material		Nickel plated alloy steel	
Ingress Protection (acc. to EN 60529)		IP67	
Deflection at E _{max}	mm	5 Klb = 0.5, 10 Klb = 0.6, 20 Klb = 1.1, 30-50Klb = 0.5, 60 Klb = 0.6, 75-100 Klb = 0.5, 200-250Klb = 0.9	
ATEX classification (optional)		II3G Ex nA IIC T4 Gc	II3D Ex tc IIIC T73°C Dc
		II1G Ex ia II1C T4	II1D Ex iaD 20 T73°C

Wiring

Wiring:

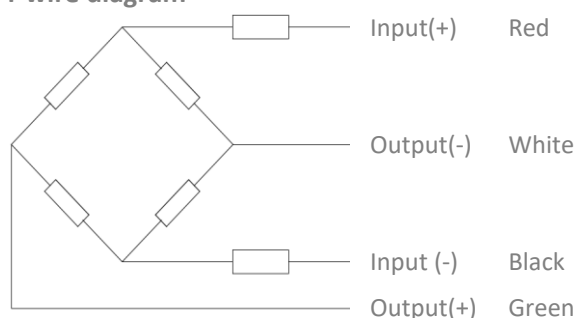
Shielded, 4 conductor cable.

Cable diameter for 5k – 20k: Ø5mm and for 30k – 250k: Ø8mm.

Standard cable length: 9m.

Shield not connected to element.

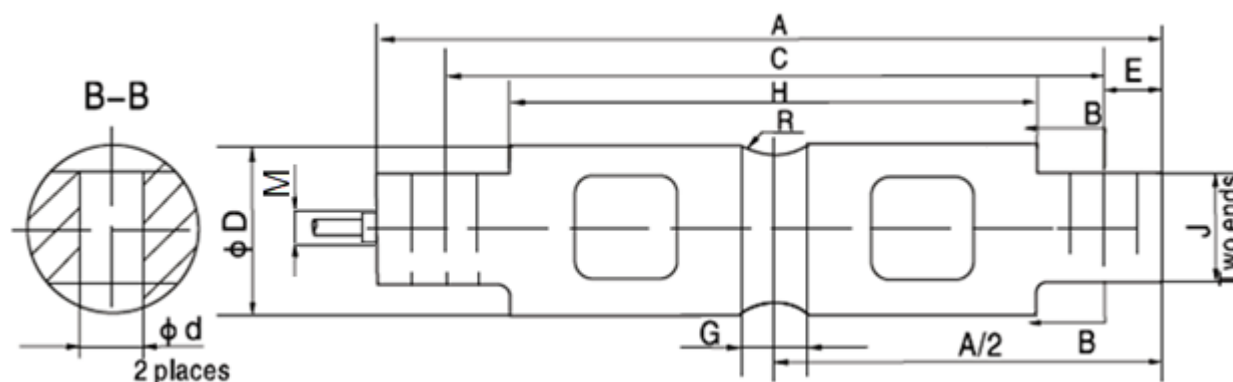
4-wire diagram



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

Type H9C Load Cell

Dimensions in mm

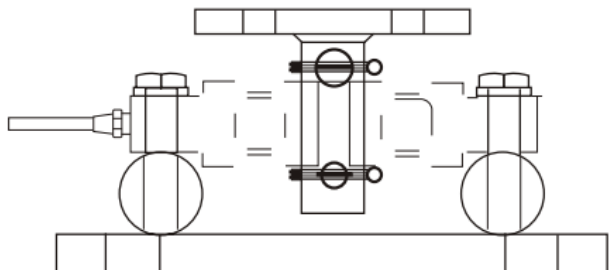
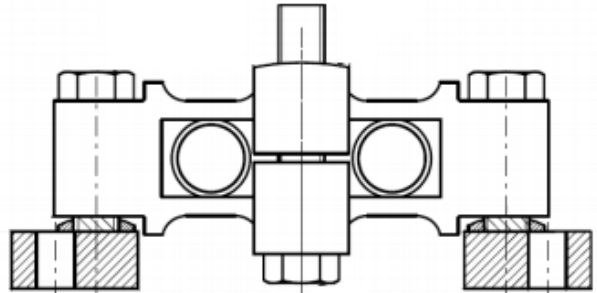
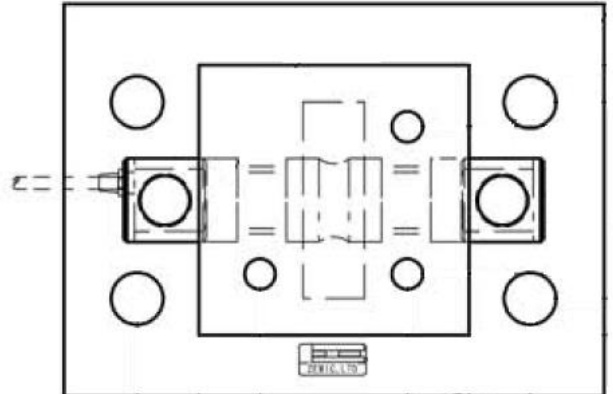


Dimension Capacity	A	C	H	G	ϕD	J	ϕd	R	E	M
5Klb, 10Klb	206.2	174.6	133.1	15.7	43.2	28.4	16.7	12.7	15.7	$\frac{5}{8}$ -18 UNF-2B
15Klb, 20Klb	206.2	174.6	133.1	21.3	49.5	28.4	16.7	12.7	15.7	$\frac{5}{8}$ -18 UNF-2B
30Klb-75Klb	260.4	215.9	165.1	25.4	76.2	60.2	26.9	25.4	22.4	$\frac{5}{8}$ -18 UNF-2B
90Klb, 100Klb	285.8	241.3	190.2	31.0	88.9	63.5	26.9	38.1	22.4	$\frac{5}{8}$ -18 UNF-2B
150Klb	285.8	241.3	190.2	31.0	99.1	71.1	26.9	38.1	22.4	$\frac{5}{8}$ -18 UNF-2B
200Klb, 250Klb	408.9	330.3	254	31.7	136.6	116.8	39.6	50.8	39.4	$\frac{5}{8}$ -18 UNF-2B

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

Type H9C Load Cell

Available accessories

HM-9-401-5-250Klb Mount • Easy installation • Compact construction • Anti-reversal ability • Alloy steel • Using under heavy static or slight dynamic load	
HM-9-405-30-75Klb Mount • Alloy steel • No horizontal movement	
HM-9-409-5-20Klb • Easy installation • Compact construction • Anti-reversal ability • Alloy steel • Using under heavy static or slight dynamic load	

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