

Type HM9C Load Cell



Short description



- Nickel plated alloy steel IP68 dual shear beam load cell
- High accuracy
- Suitable for truck and track scales and other heavy weighing devices
- Hermetically sealed

 test certificate no. D09-06.46

Available models

Capacity	Accuracy	Full article description
10Klb	C3	HM9C-C3-10K-9B
20Klb	C3	HM9C-C3-20K-9B
30Klb	C3	HM9C-C3-30K-9B
40Klb	C3	HM9C-C3-40K-9B
50Klb	C3	HM9C-C3-50K-9B
60Klb	C3	HM9C-C3-60K-9B
75Klb	C3	HM9C-C3-75K-9B

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

Zemic Europe B.V.
Leerlooierstraat 8
4871 EN Etten-Leur
The Netherlands

Nr. 2018.08 HM9C Rev6

T: +31 76 50 39480
F: +31 76 50 39481
info@zemic.nl
www.zemic.nl

Type HM9C Load Cell

Detailed specifications HM9C

Accuracy class		OIML R60 C3		
Output sensitivity (= FS)	mV/V	3.0 ± 0.008		
Maximum capacity (E _{max})	Klb	10, 20, 30, 40, 50, 60, 75		
Max.number of load cell intervals	n _{LC}	3000		
Ratio of min. LC verification interval	$Y = E_{\max} / v_{\min}$	10000		
Combined Error	%FS	≤± 0.0230		
Minimum dead load	Of E _{max}	0%		
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)		IP68		
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD 20 T73°C	II3G nL IIC T4

Wiring

Wiring:

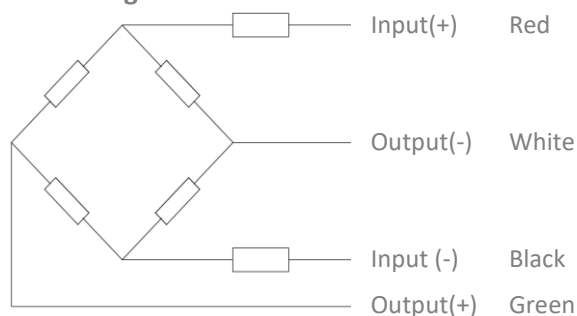
Shielded, 4 conductor cable.

Cable diameter for 10k – 20k: Ø5mm and for 30k – 75k: Ø8mm.

Standard cable length: 9m.

Shield not connected to element.

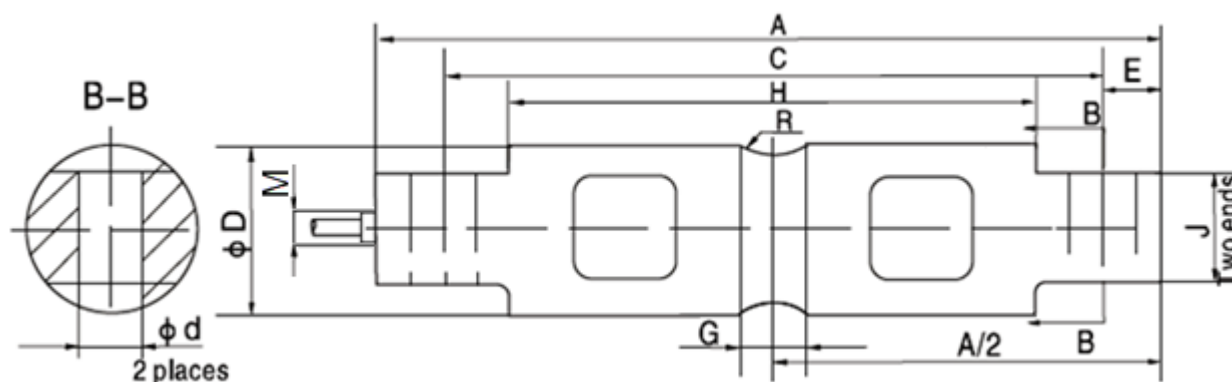
4-wire diagram



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

Type HM9C Load Cell

Dimensions in mm

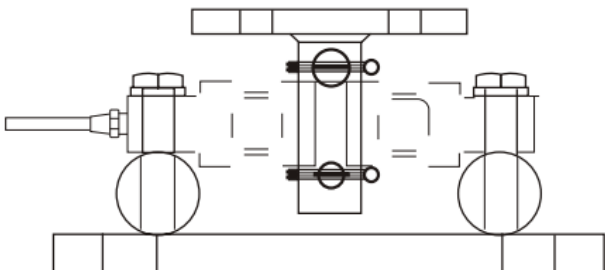
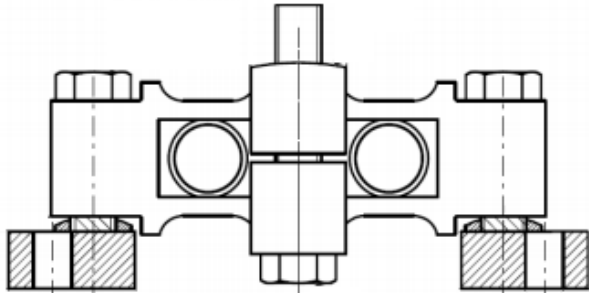
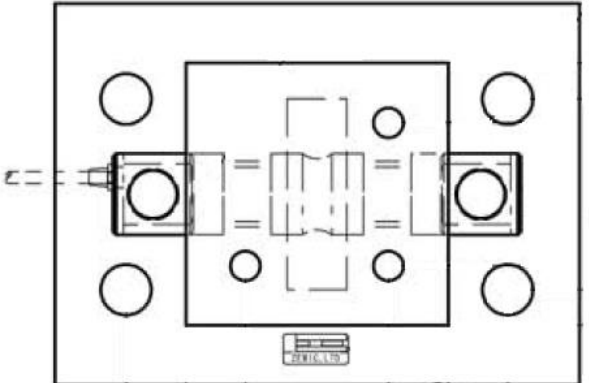


Dimension Capacity	A	C	H	G	ØD	J	Ød	R	E	M
10Klb	206.2	174.6	133.1	15.7	43.2	28.4	16.7	12.7	15.7	5/8-18 UNF-2B
15Klb, 20Klb	206.2	174.6	133.1	21.3	49.5	28.4	16.7	12.7	15.7	5/8-18 UNF-2B
30Klb-75Klb	260.4	215.9	165.1	25.4	76.2	60.2	26.9	25.4	22.4	5/8-18 UNF-2B

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

Type HM9C 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.