



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. TC7810 Revision 0
C of C no R60/2000-NL1-10.15



Certificate no. 10-057A1

Available Models

Capacity	Accuracy	Full Article Description
50Klb	C3	HM9E-C3-50K-12B
65Klb	C3	HM9E-C3-65K-12B
100Klb	C3	HM9E-C3-100K-12B
125Klb	C3	HM9E-C3-125K-12B
200Klb	C3	HM9E-C3-200K-12B

Technical Specifications HM9E

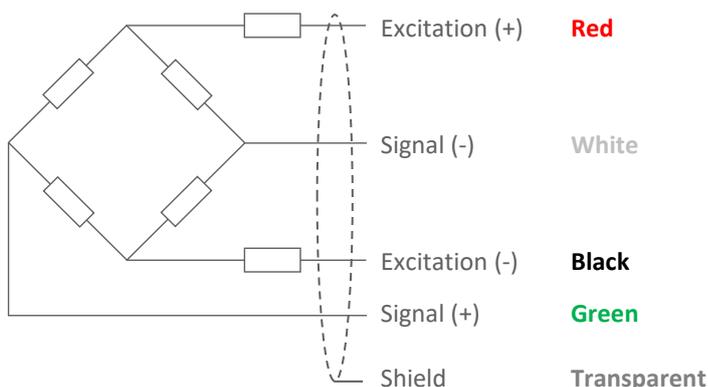
Accuracy Class		OIML R60 C3	
Output Sensitivity (= FS)	mV/V	3.0 ± 0.003	
Maximum Capacity (E _{max})	Klb	50, 65, 100, 125, 200	
Max. Number of Load Cell Intervals	n _{LC}	3000	
Ratio of min. LC Verification Interval	$Y = E_{max} / v_{min}$	10000	
Combined Error	%FS	≤± 0.023	
Creep Error (30 minutes)	%FS	≤± 0.02	
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.02	
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.01	
Zero Balance	%FS	≤± 1.0	
Safe Overload	%FS	150	
Ultimate Overload	%FS	300	
Excitation, Recommended Voltage	V	5 ~ 12	
Excitation, Maximum Voltage	V	18	
Input Resistance	Ω	700 ± 7	
Output Resistance	Ω	703 ± 4	
Insulation Resistance (50V)	MΩ	≥5000	
Compensated Temperature	°C	-10 ~ + 40	
Operating Temperature	°C	-35 ~ + 65	
Storage Temperature	°C	-40 ~ + 80	
Load Cell Weight	kg	50 – 100Klb: 9.0	125 – 200Klb: 10.2
Element Material		Nickel Plate Alloy Steel	
Ingress Protection (acc. to EN 60529)		IP68	
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 conductor cable , conductor AWG 21
 Cable diameter: Ø 8.0mm
 Cable length: 12m
 Cable jacket: Polyurethane
 Shield not connected to element

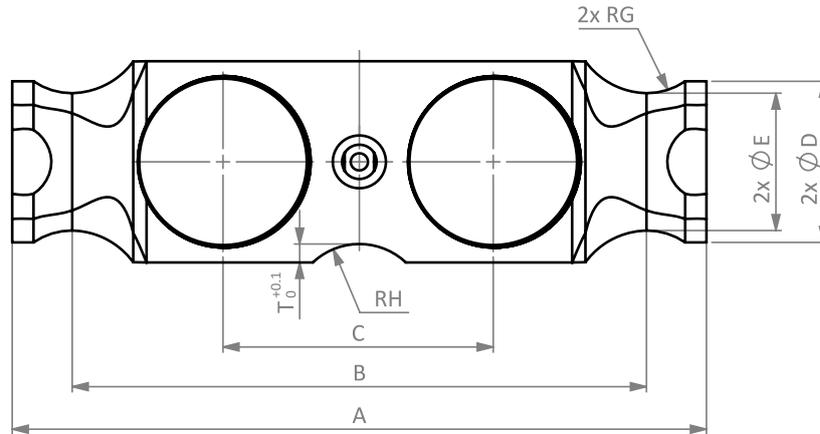
4-Wire Connection Diagram



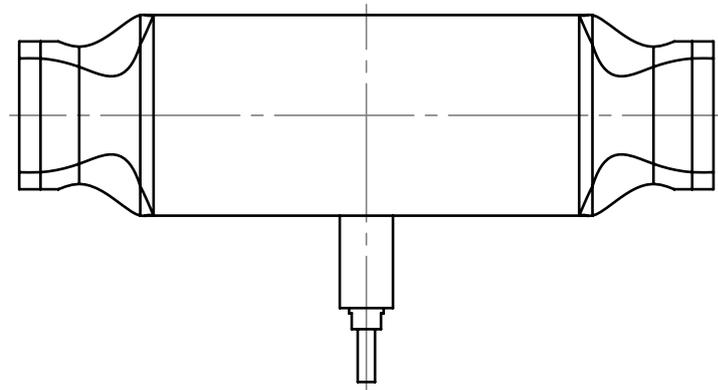
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Dimensions in mm

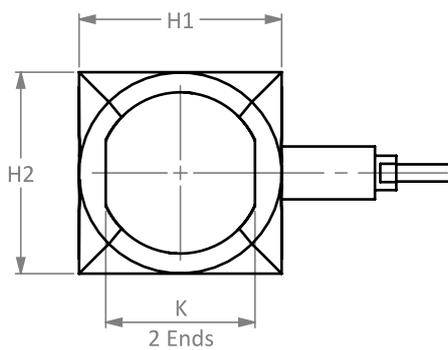
Front View



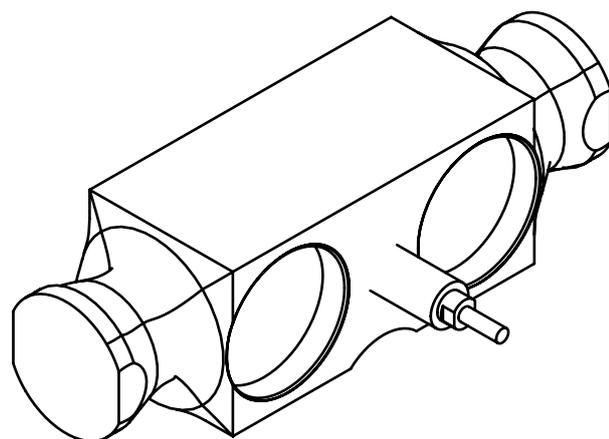
Top View



Side View



Isometric View



Dimension Capacity	A	B	C	ØD	ØE	RG	RH	T	H1	H2	K
50Klb-125Klb	260.5	215.9	101.6	61	52.32	25.4	25.4	7	76	76.2	55.9
200Klb	304.8	254	111.8	70	59.69	38.1	38.1	10	86.1	86.36	63.5

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