

Type BM14A Load Cell



Short description



- Stainless steel IP68 compression load cell
- Hermetically sealed
- Suitable for vehicle and hopper scales and vehicle testing facilities
- Built in surge arrestors
- Current calibrated (sc-option)



Test certificate no. D09-07.01 Rev. 1

Available models

Capacity	Accuracy	Full article description
10t	C2/C3	BM14A-C2/C3-10t-10B-SC
25t	C2/C3	BM14A-C2/C3-25t-20B-SC
40t	C2/C3	BM14A-C2/C3-40t-20B-SC
60t	C2/C3	BM14A-C2/C3-60t-20B-SC
100t	C2/C3	BM14A-C2/C3-100t-20B-SC
200t	C1 Excluded from OIML	BM14A-C1-200t-20B-SC

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

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Technical specifications BM14A

Accuracy class		OIML R60 C2		OIML R60 C3		C1
Output sensitivity (= FS)	mV/V	2.0 ± 0.002				
Maximum capacity (E _{max})	t	10, 25, 40	60, 100	10, 25, 40	60, 100	200
Max. number of load cell intervals	n _{LC}	2000		3000		1000
Ratio of min. LC verification interval	Y = E _{max} / v _{min}	9000	15000	9000	15000	10000
Combined Error	%FS	≤± 0.035		≤± 0.023		≤± 0.050
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	450 ± 5				
Output resistance	Ω	480 ± 5				
Insulation resistance	MΩ	≥5000 (at 50VDC)				
Compensated temperature	°C	-10 ~+40				
Operating temperature	°C	-35 ~ +65				
Storage temperature	°C	-40 ~ +70				
Element material		Stainless 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

Features:

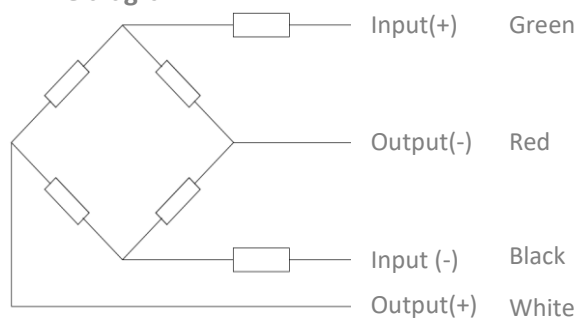
Shielded, 4 conductor cable.

Cable diameter: Ø 7.5mm.

Standard cable length for 10t: 10m and for all other capacities: 20m.

Shield not connected to element.

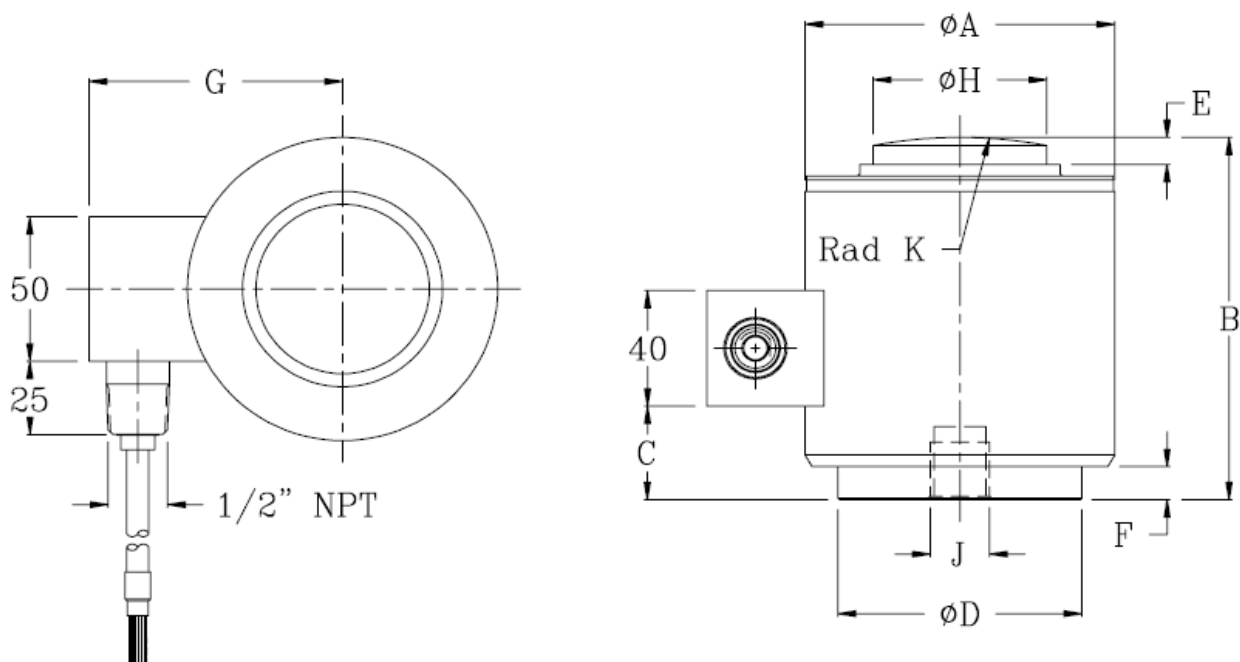
4-wire diagram



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Dimensions in mm

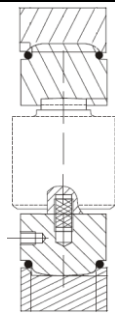
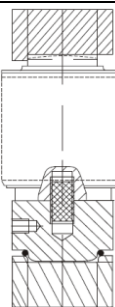


Dimension Capacity	$\varnothing A$	B	C	$\varnothing D$	E	F	G	$\varnothing H$	K_{rad}	J
10t, 25t	73	82.5	12	58	6.5	1.8	64	31.8	152	M12
40t, 60t	105	127	34	82.5	8	11	87	58.7	152	M20
100t	152.4	184	72	123.8	23.6	21.8	108	79.2	432	M20
200t	167.6	228.6	92	136.3	10.9	25.4	123	93.7	432	M20

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Available accessories

BY-14-101-10-25t rocker support • Easy installation • Good self-aligning ability • Stainless steel • Anti-reversal ability • Can be used under hazardous environments	
BY-14-101-40-60t rocker support • Easy installation • Good self-aligning ability • Stainless steel • Anti-reversal ability • Can be used under hazardous environments	

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