

Type B6F Load Cell



Short description



- Stainless steel IP67 single point load cell
- Bending beam
- Suitable for belt, platform and other electronic weighing devices
- Maximum platform size:
 - for 50kg-200kg: 400 x 400 mm
 - for 250kg-500kg: 600 x 800 mm
 - for 750kg-2t: 1200 x 1200 mm



test certificate no. TC7867 Revision 0
C of C no R60/2000-NL1-10.31

Available models

Capacity	Accuracy	Full article description
100kg	C3 Excluded from OIML	B6F-C3-100kg-3B6
150kg	C3 Excluded from OIML	B6F-C3-150kg-3B6
200kg	C3 Excluded from OIML	B6F-C3-200kg-3B6
250kg	C3 Excluded from OIML	B6F-C3-250kg-3B6
500kg	C3	B6F-C3-500kg-3B6
750kg	C3	B6F-C3-750kg-3B6
1000kg	C3	B6F-C3-1000kg-3B6
2000kg	C3	B6F-C3-2000kg-3B6

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

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Detailed specifications B6F

Accuracy class		C3	OIML R60 C3
Output sensitivity (= FS)	mV/V	2.0 ± 0.2	
Maximum capacity (E _{max})	kg	100, 150, 200, 250	500, 750, 1000, 2000
Max.number of load cell intervals	n _{LC}	3000	
Ratio of min. LC verification interval	Y = E _{max} / v _{min}	5000	12000
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	385 ± 5	
Output resistance	Ω	350 ± 3	
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)		IP67	
Recommended torque on fixation	Nm	M12:75 M16:200	
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD 20 T73°C II3G nL IIC T4

Wiring

Wiring:

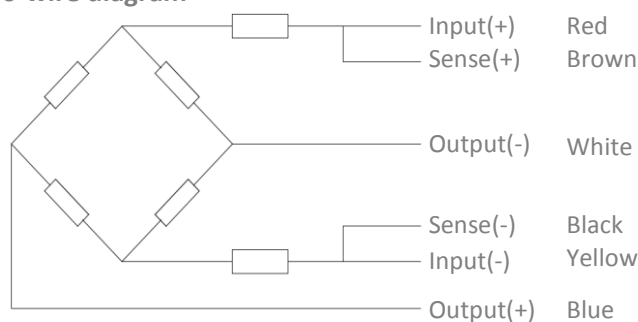
Shielded, 6 conductor cable.

Cable diameter: Ø6.2mm

Standard cable length: 3m

Shield not connected to element

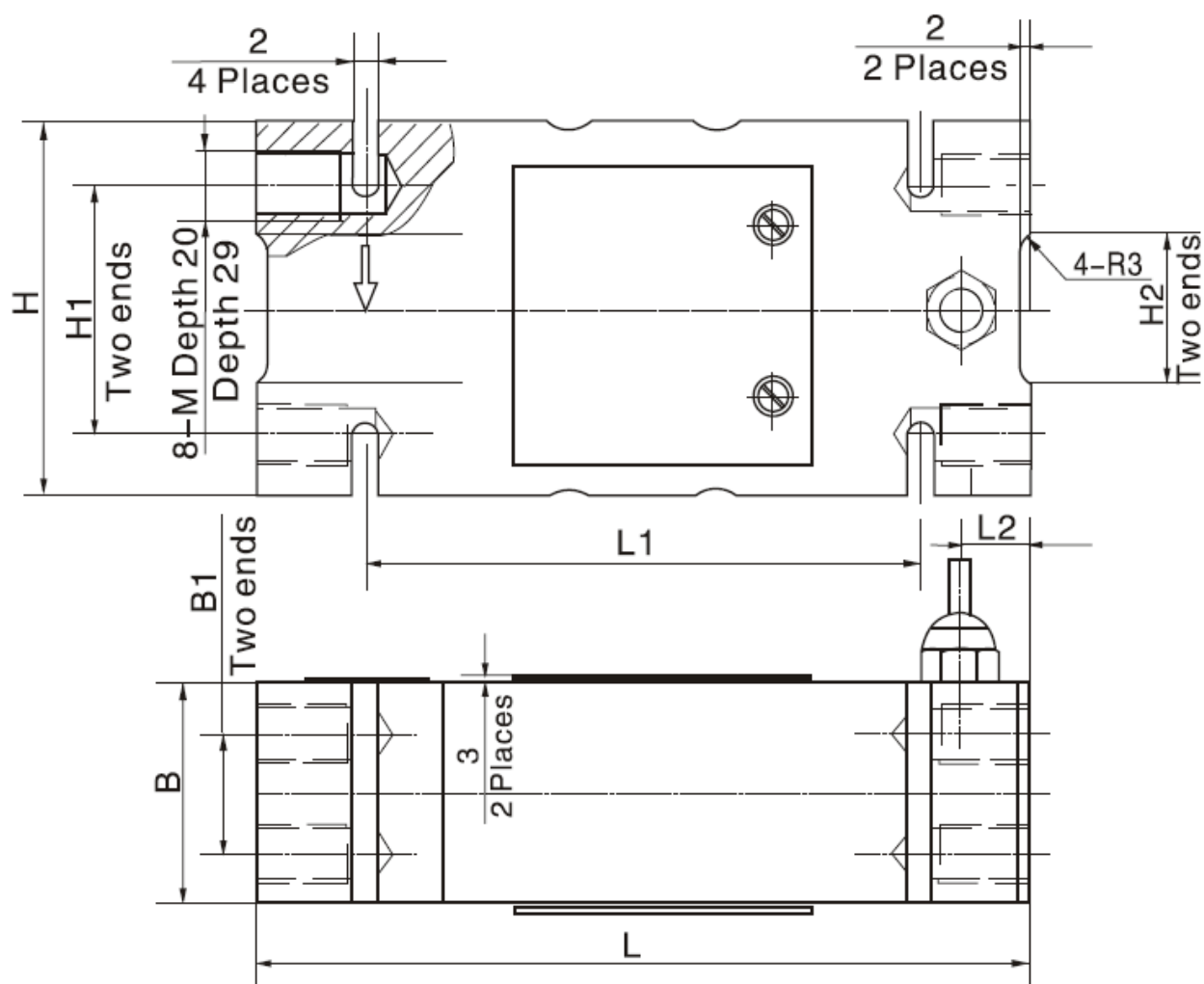
6-wire diagram



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Dimensions in mm



Dimension Capacity	B	B1	H	H1	H2	L	L1	L2	M
50-200kg	44	24	75	50	30	156	112	14	M12
250-500kg	60	36	95	70	30	146	110	11	M12
750kg-2000kg	76	46	125	95	65	176	110	24	M16

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