

Type BM6E Load Cell



Short description



- Stainless steel IP68 single point load cell
- Suitable for single load cell structured platform scales
- High accuracy
- Maximum platform size: 600 x 600 mm

Non OIML approved

Available models

Capacity	Accuracy	Full article description
50kg	C3	BM6E-C3-50kg-2B
200kg	C3	BM6E-C3-200kg-2B
300kg	C3	BM6E-C3-300kg-2B

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

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Detailed specifications BM6E

Accuracy class		C3
Output sensitivity (= FS)	mV/V	2.0 ± 0.2
Maximum capacity (E_{max})	kg	50, 200, 300
Max.number of load cell intervals	n_{LC}	3000
Ratio of min. LC verification interval	$Y = E_{max} / v_{min}$	10000
Combined Error	%FS	$\leq \pm 0.0230$
Minimum dead load	Of E_{max}	0%
Safe overload	of E_{max}	150 %
Ultimate overload	of E_{max}	300 %
Zero balance	of FS	$< \pm 1.5 \%$
Excitation, recommended voltage	V	5 ~ 12
Excitation maximum	V	18
Input resistance	Ω	350 ± 3.5
Output resistance	Ω	351 ± 2.0
Insulation resistance	M Ω	≥ 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
Recommended torque on fixation	Nm	M6: 10
Corner correction		0.02% load value / 100mm

Wiring

Wiring:

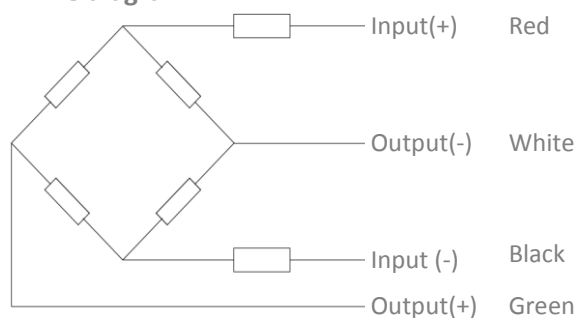
Shielded cable, 4 conductor cable.

Cable diameter: $\varnothing 5\text{mm}$.

Standard cable length: 2m.

Shield not connected to element

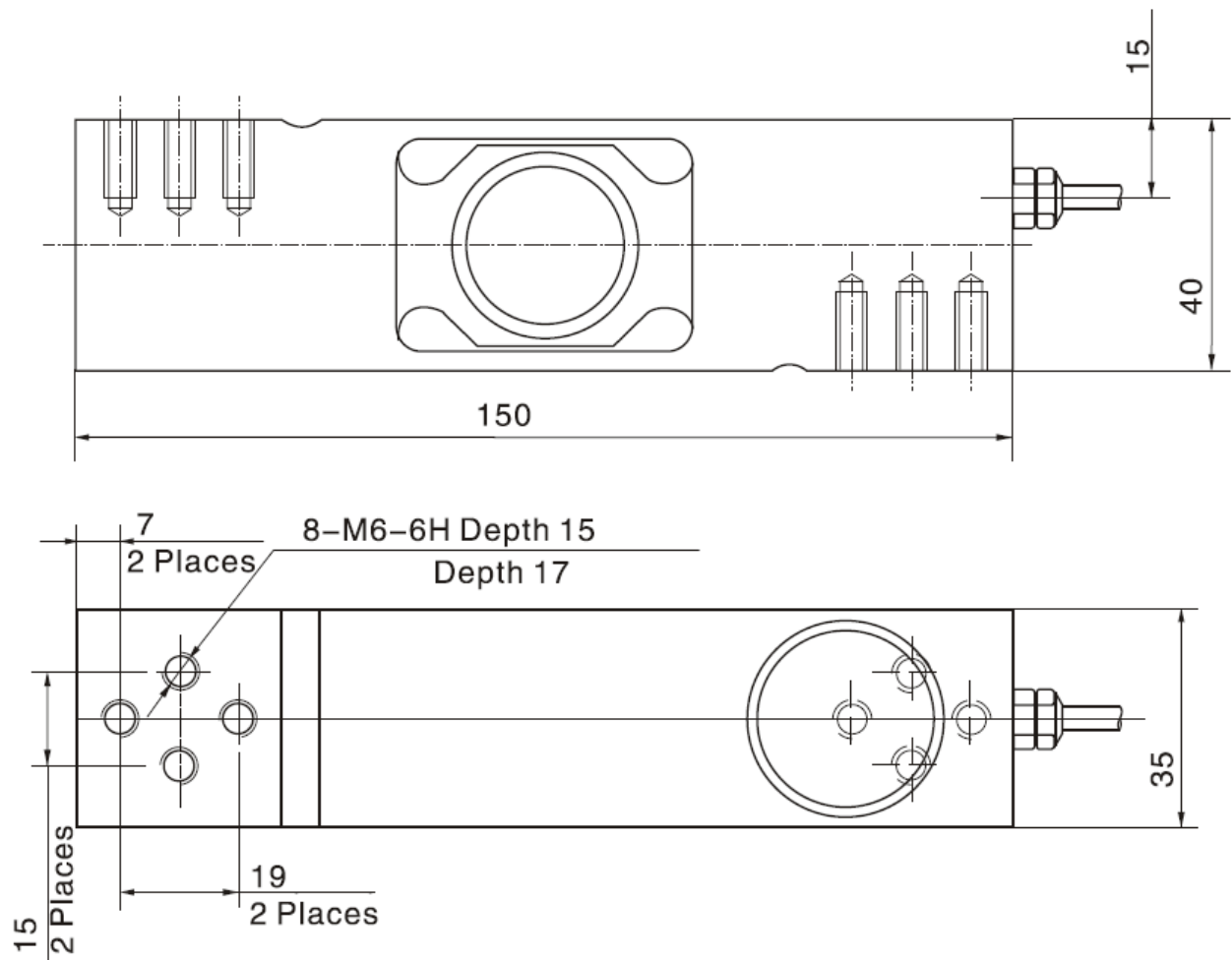
4-wire diagram



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Dimensions in mm



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