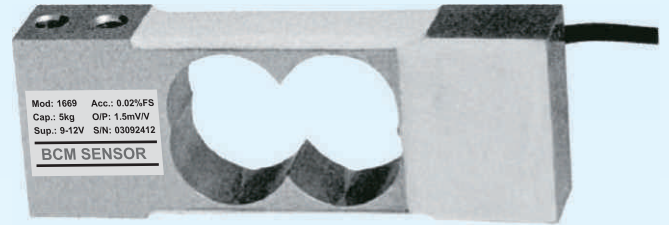


Model 1669 Single Point Load Cells

Features

- parallel bending beam
- capacity: 5, ..., 30 kg
- accuracy: 0.02 %fs
- recommended platform size: 200 X 200 mm
- aluminum construction with surface anodized
- environment protection class: IP 65



Applications

- retail scales
- counting scales
- balances

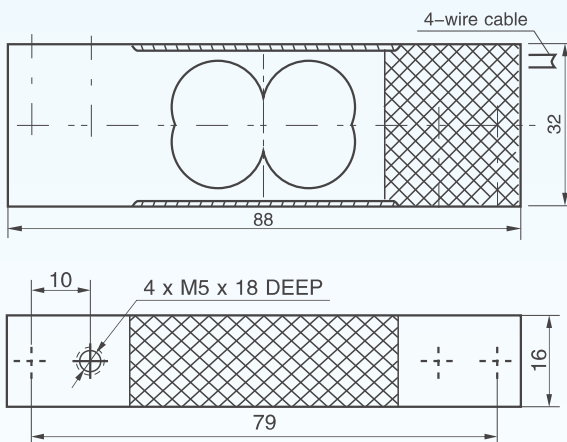
Description

The "single point" load cells are made of parallel bending beam working principle. Only one unit is sufficient to build up a scale. These load cells are moment insensitive. That is, when installed in a platform scale, it reads the same regardless of the position of the load applied to the upper platform.

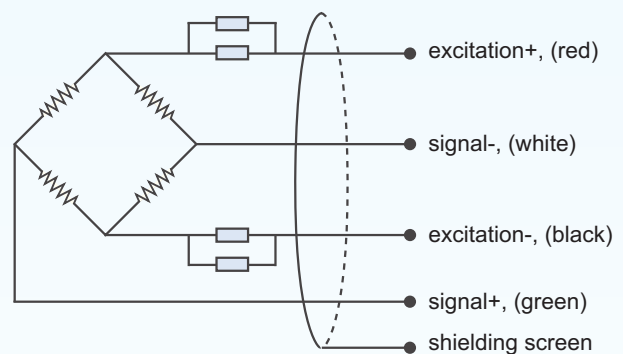
Model 1669 load cells are designed to this "single point" type and are manufactured from high quality aluminum alloy of aviation standard. 1669 load cells can be used to measure loads ranging from 5 kg to 30 kg with the measuring accuracy of 0.02%fs (fs = full scale).

1669 load cells are widely used to manufacture balances and counting scales.

Dimensions



Electrical connection



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Model 1669

Single Point Load Cells



Technical Data

parameters	units	specifications
capacity	kg	5, 7, 10, 20, 30
safe load limit	%fs	120
ultimate overload	%fs	150
output sensitivity at fs	mV/V	1.5 ± 0.2
zero unbalance	%fso	± 2
non-linearity	%fs	± 0.02
hysteresis	%fs	± 0.02
repeatability	%fs	± 0.02
creep error (30 min.)	%fs	± 0.02
excitation (supply voltage)	Vdc	5, ..., 10
max. excitation voltage	Vdc	15
input resistance	Ω	400 ± 10
output resistance	Ω	350 ± 10
insulation resistance	MΩ	≥ 5000@50 Vdc
storage temp. range	°C	-35 ~ +80
operating temp. range	°C	-35 ~ +65
compensated temp. range	°C	-10 ~ +40
temp. coefficient of sensitivity	%fs/°C	± 0.002
temp. coefficient of zero	%fs/°C	± 0.002
load cell body material		aluminum alloy
sealing		potted
mechanical interface		refer to the dimensions on the datasheets
electrical interface		Φ 4.2 mm, 4-conductor shielded, PVC jacket, 0.35 m length
environment protection		IP 65
unit weight	g	~ 120

The listed specifications are subject to change without prior notice.

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Model 1669 Single Point Load Cells



Ordering Information

position (pos.) 1: model									
1669: made from aluminum alloy									
pos. 2: capacities									
5 kg 10 kg 7 kg 20 kg 30 kg									
pos. 3: output sensitivity									
1.5 mV/V									
pos. 4: non-linearity or accuracy class									
0.02 %fs									
pos. 5: bridge resistance									
350 Ω (Rin = 410±20Ω, Rout = 350±10 Ω)									
pos. 6: threads (live end/fixed end)									
2xM5/2xM5 : two M5 threads at the live end, two M5 threads at the fixed end									
pos. 7: electrical interface									
cable, code = diameter(Φ)/number of conductors/cable jacket/cable length 4.2/4/PVC/0.35 = Φ4.2 mm, 4-conductors shielded, PVC, length = 0.35m									
pos. 8: environment protection									
IP 65									
pos. 9: accessories for installation									
NA**. In case of "NA", pos.9 can be omitted.									
pos. 10: customized spec's									
When any customized spec's are required, the customer needs to add "C" as the last parameter in the ordering code, and specifies the wished spec's on his order clearly. The customized spec's needs to be confirmed in advance by BCM's sales representative. Code "C" can be omitted if no customized spec's are required.									
pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7	pos. 8	pos. 9	pos. 10

*: This value can also be a customized value.

** : NA = not available or not applicable

example: 1669-20kg-1.5mV/V-0.02%fs-350Ω-2xM5/2xM5-4.2/4/PVC/0.35-IP65-C



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