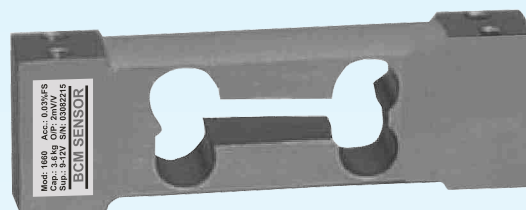


Model 1660 Single Point Load Cells

Features

- parallel bending beam
- low profile
- capacity: 0.5kg, ..., 25kg
- accuracy: 0.02%fs
- recommended platform size: 200 x 200 mm
- aluminum construction with surface anodized
- environment protection class: IP65



Applications

- retail scales
- bench scales
- counting scales

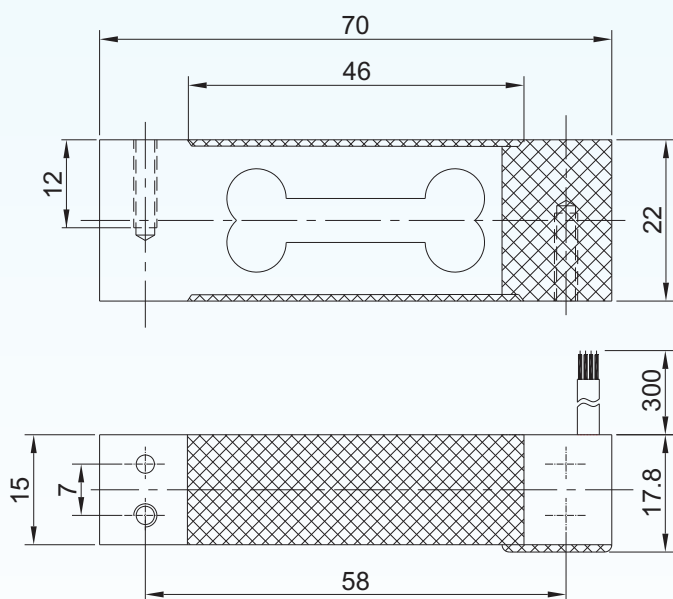
Description

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.

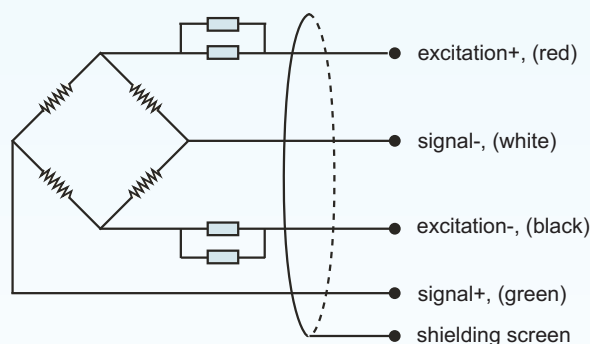
Model 1660 load cells are designed to this single point type and are manufactured from high quality aluminum alloy of aviation standard. 1660 load cells can be used to measure loads ranging from 0.5kg to 25kg with the measuring accuracy of 0.02%fs (fs = full scale).

1660 load cells are widely used to manufacture retail, bench, and counting scales.

Dimensions



Electrical connection



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Model 1660

Single Point Load Cells



Technical Data

parameters	units	specifications
capacity	kg	0.5, 1, 2, 3, 5, 7, 10, 15, 20, 25
safety overload	%fs	120
ultimate overload	%fs	150
output sensitivity at fs	mV/V	≥ 1.8 (typically 2mV/V)
zero unbalance	%fso	± 2
non-linearity	%fs	± 0.02
hysteresis	%fs	± 0.02
repeatability	%fs	± 0.02
creep error (10 min.)	%fs	± 0.02
excitation (supply voltage)	Vdc	9, ..., 12
max. excitation voltage	Vdc	15
input resistance	Ω	405 ± 10
output resistance	Ω	350 ± 3
insulation resistance	M Ω	$\geq 5000 @ 100Vdc$
storage temp. range	$^{\circ}C$	-35 ~ +80
operating temp. range	$^{\circ}C$	-35 ~ +65
compensated temp. range	$^{\circ}C$	-10 ~ +40
temp. coefficient of zero	%fso/ $^{\circ}C$	± 0.003
temp. coefficient of sensitivity	%fso/ $^{\circ}C$	± 0.002
load cell body material		aluminum alloy
sealing		potted
mechanical interface		refer to the dimensions on the datasheets
electrical interface		$\Phi 3mm$, 4-core shielded, PVC, 0.3m length
environment protection		IP65
unit weight	g	~60

The listed specifications are subject to change without prior notice.

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Model 1660

Single Point Load Cells



Ordering Information

parameter (par.) 1: model									
1660: made from aluminum alloy									
par. 2: capacities									
0.5kg		1kg	10kg						
		2kg	15kg						
		3kg	20kg						
		5kg	25kg						
		7kg							
par. 3: output sensitivity									
2mV/V									
par. 4: non-linearity or accuracy class									
0.02%fs									
par. 5: bridge resistance									
350Ω (Rin = 405±10Ω, Rout = 350±3Ω)									
par. 6: threads (live end/fixed end)									
2xM3/2xM3 : two M3 threads at the live end, two M3 threads at the fixed end									
par. 7: electrical interface									
cable, code = diameter(Φ)/number of conductors/cable jacket/cable length 3/4/PVC/0.3 = Φ3mm, 4-core shielded, PVC, length = 0.3* m									
par. 8: environment protection									
IP65									
par. 9: accessories for installation									
NA**. In case of "NA", pos.9 can be omitted.									
par. 10: customized spec's									
"(*)" is necessary only if any customized parameter is required, otherwise it is neglectable.									
pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7	pos. 8	pos. 9	pos. 10

*: This value can be a customized value.

**: NA = not available or not applicable

example: 1660-1kg-2mV/V-0.02%fs-350Ω-2xM3/2xM3-3/4/PVC/0.3-IP65

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