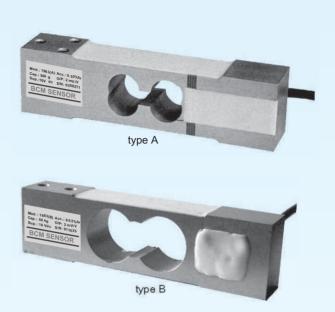
Features

- parallel bending beam
- capacity: 20, ..., 200 kg
- accuracy: 0.02 %fs
- recommended platform size: 350 X 400 mm
- aluminum construction with surface anodized
- environment protection class: IP 65

Applications

- retail scales
- bench scales
- counting scales



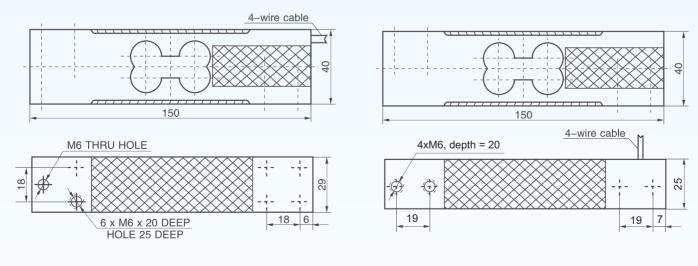
Description

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 1663 load cells are designed to this "single point" type and are manufactured from high quality aluminum alloy of aviation standard. 1663 load cells can be used to measure loads ranging from 20 kg to 200kg with the measuring accuracy of 0.02% fs (fs = full scale).

1663 load cells are widely used to manufacture retail, bench, and counting scales.

Dimensions



type A

type B

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Model 1663 Single Point Load Cells

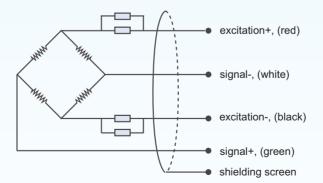


Technical Data

parameters		units	specifications			
oon ooitu	type A	kg	30, 50, 70, 100, 200			
capacity	type B	kg	20, 30, 50, 70, 100			
safe load limit		%fs	120			
ultimate overload		%fs	150			
output sensitivity at fs		mV/V	2.0 ± 0.2			
zero unbalance		%fso	± 1.5			
non-linearity		%fs	± 0.02			
hysteresis		%fs	± 0.02			
repeatability		%fs	± 0.02			
creep error (30 min.)		%fs	± 0.02			
excitation (supply voltage)		Vdc	10 (recommended), 9, 12			
max. excitation voltage		Vdc	15			
input resistance		Ω	410 ± 10			
output resistance		Ω	350 ± 10			
insulation resistance		MΩ	≥ 5000@50 Vdc			
storage temp. range		°C	-35 ~ +80			
operating temp. range		°C	-20 ~ +65			
compensated temp. range		°C	-10 ~ +40			
temp. coefficient of sensitivity		%fs/°C	± 0.002			
temp. coefficient of zero		%fs/°C	± 0.003			
load cell body material			aluminum alloy			
sealing			potted			
mechanical interface			refer to the dimensions on the datasheets			
electrical interface			Φ5 mm, 4-conductor shielded, PVC jacket, 1 m length			
environment protection			IP 65			
unit weight		g	~ 400			

The listed specifications are subject to change without prior notice.

Electrical Connection



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Model 1663 Single Point Load Cells

Ordering Information

position ((pos.) 1: mo	del										
	ade from alum ade from alum											
. ,	pos. 2: ca	pacities										
	20 kg (only 30 kg 50 kg 70 kg	for type B)	100 kg 200 kg (d	only for type A	.)							
		pos. 3: output sensitivity										
		2 mV/V										
			pos. 4: non-linearity or accuracy class									
			0.02 %fs									
				pos. 5: bi	ridge resista	ance						
			350 Ω (Rin = 410±10Ω, Rout = 350±10 Ω)									
					pos. 6: threads (live end/fixed end)							
								ve end, four M6 threads at the fixed end end, two M6 threads at the fixed end				
					2XIVIO/2XIVIC	· · · ·	,,					
						pos. 7: electrical interface cable, code = diameter(Φ)/number of conductors/cable jacket/cable length 5/4/PVC/1 = Φ5 mm, 4-conductors shielded, PVC, length = 1*m						
						protection						
							IP 65					
								pos. 9: accessories for installation				
								NA**. In ca	ase 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: 1663(A)-50kg-2mV/V-0.02%fs-350Ω-3xM6/4xM6-5/4/PVC/1-IP65-C



ISO9001 Certified Company

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