Model 1663 Single Point Load Cells

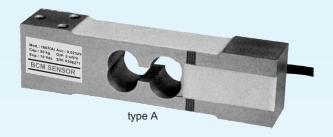


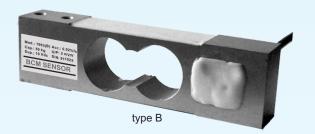
Features

parallel bending beamcapacity: 20, ..., 200 kgaccuracy: 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

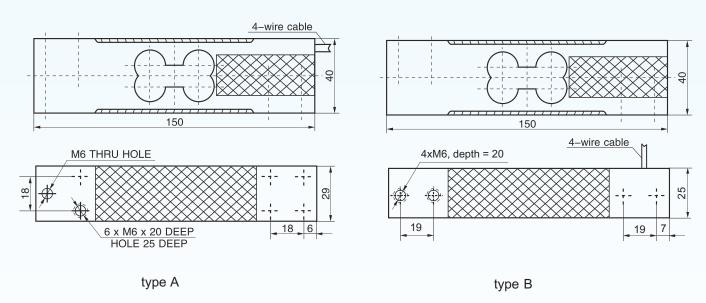
Description

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 200 kg 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



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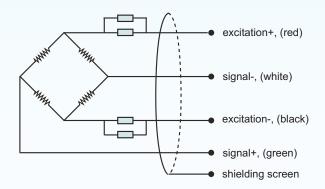
Model 1663 Single Point Load Cells



Technical Data

parameters		units	specifications			
capacity	type A	kg	30, 50, 70, 100, 200			
	type B	kg	20, 30, 50, 70, 100			
safe load limit		%fs	120			
ultimate overload		%fs	150			
output sensitivity at fs		mV/V	≥ 1.8 (typically 2mV/V)			
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		ΜΩ	≥ 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			

Electrical Connection



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Model 1663 Single Point Load Cells



Ordering Information

position (po	os.) 1: mod	del											
1663(A): made													
` ′ —	pos. 2: ca												
;	20 kg (only 1 30 kg 50 kg 70 kg	for type B)	100 kg 200 kg (d	only for type A)								
		pos. 3: ou	pos. 3: output sensitivity 2 mV/V pos. 4: non-linearity or accuracy class 0.02 %fs										
		2 mV/V											
				pos. 5: br	idge resista	ance							
				350 Ω (Rin	350 Ω (Rin = 410±10 Ω , Rout = 350±10 Ω)								
					pos. 6: th	reads (live	end/fixed e	end)					
					3xM6/4xM6 : for 1663(A), three M6 threads at the live end, four M6 threads at the fixed e 2xM6/2xM6 : for 1663(B), two M6 threads at the live end, two M6 threads at the fixed end								
						pos. 7: el	ectrical int	erface					
						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.

example: 1663(A)-50kg-2mV/V-0.02%fs-350Ω-3xM6/4xM6-5/4/PVC/1-IP65-C



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^{**:} NA = not available or not applicable