# Model 1668(S) Single Point Load Cells

#### **Features**

- parallel bending beam
- low profile
- capacity: 0.1, ..., 3 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
- bench scales
- counting scales

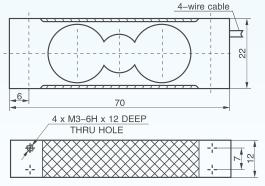
## Description

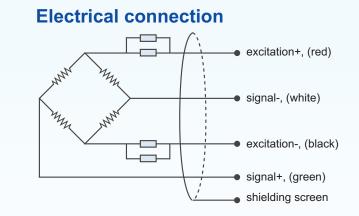
The "single point" load cells are made of parallel bending beam working principle. Only one unit is sufficient to build up a scale. These load cells are moment insensitive. That is, when installed in a platform scale, it reads the same regardless of the position of the load applied to the upper platform.

Model 1668(S) load cells are designed to this "single point" type and are manufactured from high quality aluminum alloy of aviation standard. 1668(S) load cell is the shorter version of 1668 and can be used to measure loads ranging from 0.1 kg to 3 kg with the measuring accuracy of 0.02% fs (fs = full scale).

1668(S) load cells are widely used to manufacture retail, bench, and counting scales.

#### **Dimensions**





## BCM SENSOR TECHNOLOGIES BVBA

Industriepark Zone 4, Brechtsebaan 2 B-2900 Schoten - Antwerpen, BELGIUM Tel.: +32-3-238 6469 Fax: +32-3-238 4171

website: www.bcmsensor.com email: sales@bcmsensor.com





# Model 1668(S) Single Point Load Cells



## **Technical Data**

parameters	units	specifications
capacity	kg	0.1, 0.2, 0.3, 0.5, 0.7, 1, 2, 3
safe load limit	%fs	120
ultimate overload	%fs	150
output sensitivity at fs	mV/V	1.0 ± 0.1
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	± 0.003
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		$\Phi$ 3.8 mm, 4-conductor shielded, PVC jacket, 0.45 m length
environment protection		IP 65
unit weight	g	~ 50

The listed specifications are subject to change without prior notice.

## BCM SENSOR TECHNOLOGIES BVBA

Industriepark Zone 4, Brechtsebaan 2 B-2900 Schoten - Antwerpen, BELGIUM Tel.: +32-3-238 6469 Fax: +32-3-238 4171 website: www.bcmsensor.com email: sales@bcmsensor.com

# Model 1668(S) Single Point Load Cells

## **Ordering Information**

position (pos.) 1: model

BCM SENSO	OR TECHNOLOGIE	S BVBA	ISO9001 (
Brechtsebaan 2	Tel.: +32-3-238 6469	website:	www.bcm

Industriepark Zone 4, B-2900 Schoten - Antwerpen, BELGIUM Fax: +32-3-238 4171

msensor.com email: sales@bcmsensor.com

1668(S): m	ade from alui	minum alloy								
	pos. 2: c	apacities								
	0.1 kg 0.2 kg 0.3 kg 0.5 kg 0.7 kg	1 kg 2 kg 3 kg								
		pos. 3: o	utput sensit	ivity						
		1 mV/V								
			· ·	on-linearity	or accuracy	/ class				
			0.02 %fs							
				•	ridge resista		0)			
				350 Q (Rin	= 400±10Ω, R		end/fixed e	end)		
								,	b threads at the fixed end	
						pos. 7: e	ectrical int	erface		
								,	conductors/cable jacket/cable length ctors shielded, PVC, length = 0.45* m	
						3.0/4/FV		nvironment	<b>_</b>	
							IP 65	Invironment		
								pos. 9: a	ccessories for installation	
								NA**. In ca	**. 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: 1668(S)-1kg-1mV/V-0.02%fs-350Ω-2xM3/2xM3-3.8/4/PVC/0.45-IP65-C





Certified Company