

Model 166V

Single Point Load Cells

BCM 16-series load cells are of double-parallel bending-beam, and Model 166V load cells are made from high quality aluminum alloy. The 166V-series are so-called single point load cells and for application of one scale with one load cell.

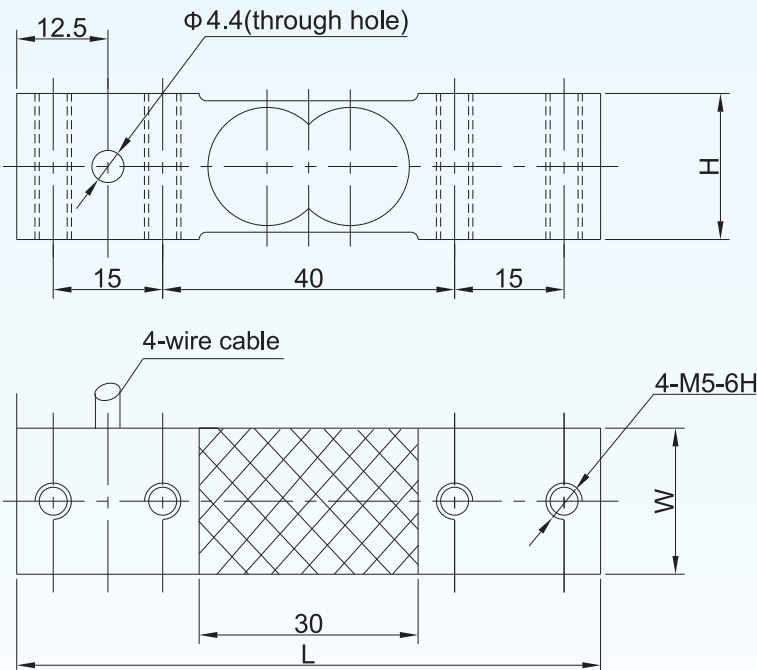
The 166V load cells are manufactured of 3kg, 5kg, 7kg, 10kg, 20kg and 30kg capacities with accuracy of 0.05%FS. Thanks to the high quality of aluminum alloy used, the 166V load cells are suitable for low-cost scales of platform size 150 mm x 150 mm (2.5kg, 5kg capacities) and 200 mm x 200 mm (10kg, 20kg, 30kg capacities), respectively.



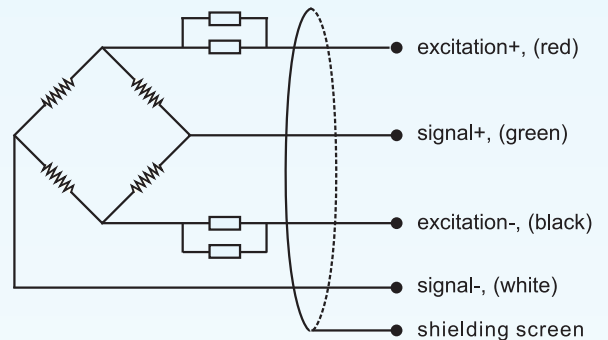
type: single point (off center) load cell
material: aluminum alloy
surface: anodized treatment
protection: IP 65
application: retail, bench and counting scales

suggested platform size: 150 x 150 mm or 200 x 200 mm

Dimensions:



Electrical connection:



capacity	LxWxH	platform size
3, 5, 7	80 x 20 x 20	150 x 150
10, 20, 30	80 x 30 x 22	200 x 200

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Technical Data:

parameters	units	specifications
capacity	kg	3, 5, 7, 10, 20, 30
safe overload	%FS	120
ultimate overload	%FS	150
output sensitivity	mV/V	2.0 ± 0.15
combined error	%FSO	± 0.05
non-linearity	%FSO	± 0.05
hysteresis	%FSO	± 0.05
repeatability	%FSO	± 0.05
creep	%FSO/30 min.	± 0.03
zero unbalance	%FSO	± 1.5
excitation voltage	Vdc	5, ..., 10
maximum excitation	Vdc	15
input resistance	Ω	380 ± 20 (standard), 1050 ± 10
output resistance	Ω	350 ± 5 (standard), 1000 ± 10
insulation resistance	MΩ	≥ 2000 @ 50 Vdc
operating temperature range	°C	-20 ~ +50
compensated temperature range	°C	-10 ~ +40
temperature coefficient of SPAN	%FSO/°C	± 0.003
temperature coefficient of ZERO	%FSO/°C	± 0.003
electrical interface	cable	4-core shielded PVC cable cable dia.: Φ 3.9 mm; cable length: 450 mm

The listed specifications are subject to change without prior notice.

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Model 166V Single Point Load Cells



Ordering code:

example: 166V - K20 - UC - AE - BR 1 - P5 - EA 4 - AL 000 - C*

code	model
1661	1661

code	capacity
K3, K5	3 kg, 5 kg
K7	7 kg
K10	10 kg
K20	20 kg
K30	30 kg

code	output sensitivity
UC	2.0 mV/V

code	combined error
AE	0.05 %fso

code	bridge resistance
BR 1	350 Ω (standard)
BR 2	1000 Ω

code	ingress protection grade
P5	IP 65

code	electrical connection
EA 4	cable (4-core shielded PVC cablen, Φ3.9 mm, length 450 mm)

code	special requests information
C*	<p>This code "C*" only applies when customer has special requests which are not included in the standard ordering code.</p> <p>With this code, customer can define specifications or requests in separate lines with "C*" added to the end of the ordering code.</p> <p>These requests must be confirmed by a BCM sales personnel before the official order is placed.</p>

code	accessories
AL 000	none

Ordering Code Example: 166V - K20 - UC - AE - BR 1 - P5 - EA 4 - AL 000 - C*
cable length = 500 mm

Explanations of the Ordering Code

Model 166V load cell, cap. = 20 kg, output sensitivity = 2.0 mV/V, combined error = 0.05%fso, bridge resistance = 350Ω. The ingress protection grade is IP 65. The electrical connection is 4-core shielded PVC cable, the length is 500 mm instead of the standard 450 mm. No accessories for this product.

The change of the cable length is confirmed by a BCM sales personnel, and is indicated clearly in the <<order conformation>>.



ISO9001 Certified Company

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