

Model 341K Low-cost Shear-beam Load Cells

Features

- single-ended shear beam load cells
- range from 160 kg to 2500 kg
- accuracy of 1 %fs
- mild steel construction with zinc plated surface treatment
- environment protection up to IP 66

Applications

- hopper scales
- platform scales



cap.<2500 kg



cap.=2500 kg

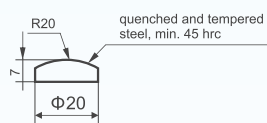
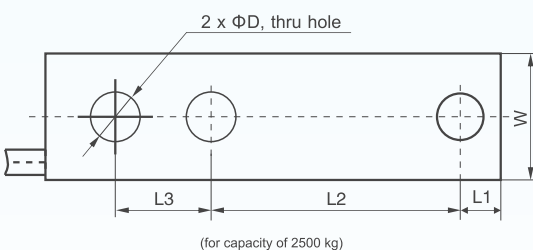
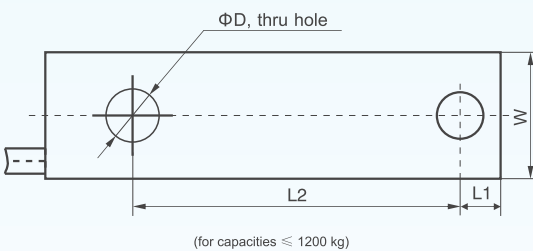
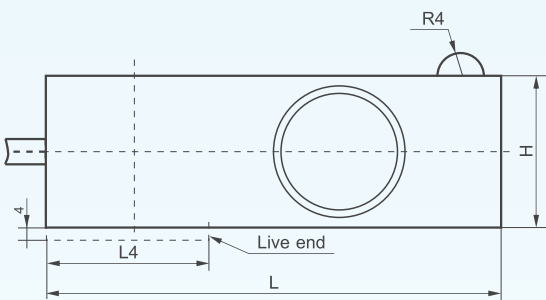
Description

Based on BCM advanced metal foil strain gauge technology, model 341K load cells are made of single-ended shear beam working principle.

The capacities of 341K range from 160 kg to 2500 kg with an measuring accuracy of 1 %fs (fs=full scale). These load cells are sealed to have a protection grade of IP 66.

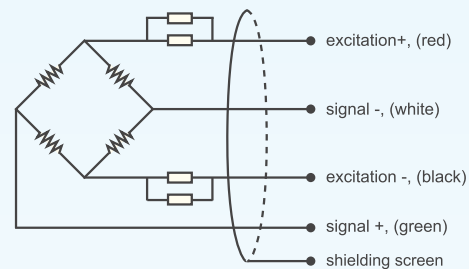
341K load cells are made from mild steel with zinc plated surface treatment of equivalent anti-corrosion surface treatment. Typical applications of 341K load cells include platform scales and hopper scales.

Dimensions



(compression nut for capacity of 2500 kg)

Electrical Connection



capacity vs. dimensions

capacity (kg)	L	L1	L2	L3	L4	H	W	D
160, 320	83	8	60	N.A.	30	25	20	8.5
630, 1200	90	8	65	N.A.	32	30	25	10.5
2500	130	12.6	76.2	25.4	57	32	32	12.5

BCM SENSOR TECHNOLOGIES BVBA

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Technical Data

parameters	units	specifications
capacity	kg	160, 320, 630, 1200, 2500
safe load limit	%fs	150
ultimate overload	%fs	200
output sensitivity at fs	mV/V	2.0 ± 0.02
zero unbalance	%fso	± 1
non-linearity	%fs	± 1.0
hysteresis	%fs	± 0.8
repeatability	%fs	± 0.5
creep error (30 min.)	%fs	± 0.1
excitation (supply voltage)	Vdc	10
max. excitation voltage	Vdc	15
input resistance	Ω	350 ± 10
output resistance	Ω	350 ± 10
insulation resistance	MΩ	≥ 1000@50 Vdc
storage temp. range	°C	-40 ~ +85
operating temp. range	°C	-40 ~ +85
compensated temp. range	°C	-10 ~ +40
temp. coefficient of sensitivity	%fs/°C	± 0.06
temp. coefficient of zero	%fs/°C	± 0.02
load cell body material		mild steel
sealing		potted
mechanical interface		refer to the dimensions on the datasheets
electrical interface		Φ5 mm, 4-conductor shielded cable, PVC jacket, 3 m
environment protection		IP 66
unit weight	g	to be confirmed when order

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 341K

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Ordering Information

position (pos.) 1: model									
341K: made from mild steel									
pos. 2: capacities									
160 kg 320 kg 630 kg 1200 kg 2500 kg									
pos. 3: output sensitivity									
2 mV/V									
pos. 4: non-linearity or accuracy class									
1 %fs									
pos. 5: bridge resistance									
350 Ω (R _{in} = 350±10 Ω, R _{out} = 350±10 Ω)									
pos. 6: mechanical interface									
Refer to the dimensions on the datasheets. Pos. 6 can be omitted from the ordering code.									
pos. 7: electrical interface									
cable, code = diameter(Φ)/number of conductors/cable jacket/cable length 5/4/PVC/3 = Φ5 mm, 4-conductors shielded, PVC, length = 3*m									
pos. 8: environment protection									
IP 65									
pos. 9: accessories for installation									
N = NA**. In case of "NA", pos.9 can be omitted.									
pos. 10: customized spec's									
<p>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.</p> <p>The customized spec's needs to be confirmed in advance by BCM's sales representative.</p> <p>Code "C" can be omitted if no customized spec's are required.</p>									
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: 341K-2500kg-2mV/V-1%fs-350Ω-5/4/PVC/3-IP66-C



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ISO9001 Certified Company

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