

Features

- double-ended shear beam
- capacity from 5 klb to 250 klb
- accuracy of 0.02%fs
- mild steel construction with nickel plated treatment (4518) 17-4PH construction (4598)
- environment protection grade up to IP 68 (only for 4598)



Applications

- vehicle scales
- tank and hopper weighing
- catalyst vessels weighing
- batching plant weighing

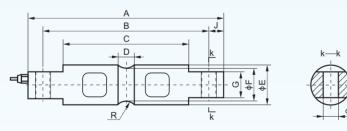
Description

Based on BCM advanced metal foil strain gauge technology, model 4518/4598 load cells are made of double-ended shear-beam working principle. These load cells are produced with center loading configuration, that is, the load cell is supported from both ends and the load is introduced at the center of the load cell.

The capacities of 4518/4598 load cells range from 5 klb to 250 klb with an accuracy of 0.02% fs (fs = full scale). Thanks to BCM leading technology in sealing, 4518/4598 load cells can be made to a higher protection grade of IP68, and fit to harsh industrial conditions.

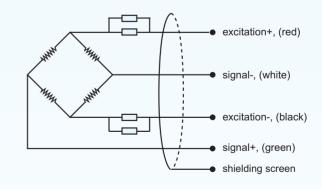
Featuring compact construction and high capacity compared to the single point load cells, 4518/4598 load cells are widely used in applications of vehicle scales, tank and hopper weighing.

Dimensions



cap. (Klb)	Α	В	С	D	E	F	G	Н	J	R
5, 7, 10	206.2	174.6	133.1	15.7	43.2	37.6	28.4	16.7	15.7	12.7
20	206.2	174.6	133.1	21.3	49.5	37.8	28.4	16.7	15.7	12.7
30, 50, 70	206.4	215.9	165.1	25.4	76.2	69.3	60.2	26.9	22.4	25.4
100	285.8	241.3	190.2	31.0	88.9	82.3	63.5	26.9	22.4	38.1
150	285.8	241.3	190.2	31.0	99.1	92.5	71.1	26.9	22.4	38.1
200, 250	408.9	330.3	254.0	31.7	136.6	131.4	116.8	39.6	39.4	50.8

Electrical Connection



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Technical Data

parameters	units	specifications
capacity	klb	5, 7, 10, 20, 30, 50, 70, 100, 150, 200, 250
safe load limit	%fs	150
ultimate overload	%fs	200
output sensitivity at fs	mV/V	3.0 ± 0.003
zero unbalance	%fso	± 1
non-linearity	%fs	± 0.02
hysteresis	%fs	± 0.02
repeatability	%fs	± 0.01
creep error (30 min.)	%fs	± 0.02
excitation (supply voltage)	Vdc	10 (recommended), 9,, 12
max. excitation voltage	Vdc	18
input resistance	Ω	760 ± 30
output resistance	Ω	700 ± 10
insulation resistance	MΩ	≥ 5000@50 Vdc
storage temp. range	°C	-35 ~ +80
operating temp. range	°C	-35 ~ +65
compensated temp. range	°C	-10 ~ +55
temp. coefficient of sensitivity	%fs/°C	± 0.002
temp. coefficient of zero	%fs/°C	± 0.002
load cell body material		mild steel (4518), 17-4PH stainless steel (4598)
sealing		potted
mechanical interface		refer to the dimensions on the datasheets
electrical interface		Φ 6 mm, 4-conductor shielded PVC cable, 13 m
environment protection		IP 66 (standard), IP 67, IP 68 (only for 4595)
unit weight	kg	2.5,, 44.5 (capacity dependent, to be confirmed in case of order)

The listed specifications are subject to change without prior notice.

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Ordering Information

pos. 2: c	apacities										
5 klb 7 klb	10 klb 20 klb 30 klb 50 lkb 70 klb	100 klb 150 klb 200 klb 250 klb									
	pos. 3: output sensitivity										
	3 mV/V										
		pos. 4: no	on-linearity or accuracy class								
		0.02 %fs									
			-	ridge resist							
			700 Ω (Rin	= 760±30 Ω,		0Ω)					
				pos. 6: th		" nos 6 can l	a omitted fro	m the ordering code.			
				N-NA .		ectrical inte					
					•			conductors/cable jacket/cable length			
						13 = Φ6 mm, ·	4-conductors	shielded, PVC, length = 13*m			
						-	nvironmen	t protection			
						IP 66 IP 67 IP 68 (only	for 4598)				
							pos. 9: accessories for installation				
							N = NA**.	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. 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: 4518-10klb-3mV/V-0.02%fs-700Ω-6/4/PVC/13-IP66-C



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