Model 3417/3497 Low Profile Single-ended Shear-beam Load Cells



Features

- single-ended shear-beam
- low profile
- capacity from 0.5 t to 2 t
- accuracy of 0.02 %fs
- mild steel construction with nickel plated treatment (3417) 17-4PH construction (3497)
- environment protection up to IP 68 (3497)



Applications

- tank and hopper scales
- platform scales

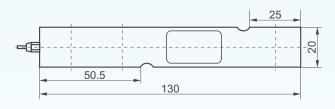
Description

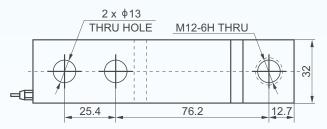
Based on BCM advanced metal foil strain gauge technology, model 3417/3497 load cells are made of shear-beam working principle in low profile. These load cells are of good side load resistance and relatively insensitive to the point of loading.

The capacities of 3417/3497 load cells ranges from 0.5 t to 2t with an accuracy of 0.02% fs (fs = full scale). Thanks to BCM leading technology in sealing, 3417/3497 load cells can be made to a higher protection grade of IP68, and fit to harsh industrial conditions.

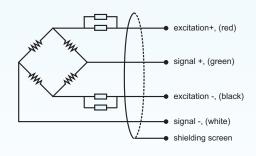
Featuring simple construction and excellent performance, 3417/3497 load cells are widely used in applications of platform-sclaes, hopper-scales weighing systems, or applications need to measure beam bending loads.

Dimensions





Electrical Connection



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unit weightkg~ 1The listed specifications are subject to change without prior notice.

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parameters	units	specifications			
capacity	t	0.5, 0.7, 1, 2			
safe load limit	%fs	150			
ultimate overload	%fs	200			
output sensitivity at full scale	mV/V	2.0 ± 0.02			
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			
max. excitation voltage	Vdc	15			
input resistance	Ω	360 ± 10			
output resistance	Ω	350 ± 10			
insulation resistance	MΩ	≥ 5000@50 Vdc			
storage temp. range	°C	-35 ~ +80			
operating temp. range	°C	-35 ~ +80			
compensated temp. range	°C	-10 ~ +40			
temp. coefficient of sensitivity	%fs/°C	± 0.002			
temp. coefficient of zero	%fs/°C	± 0.004			
load cell body material		mild steel (3417), 17-4PH stainless steel (3497)			
sealing		potted			
mechanical interface		refer to the dimensions on the datasheets			
electrical interface		Φ 5.7 mm, 4-conductor shielded PVC cable, 3.5 m			
environment protection		IP 66 (standard), IP 67, IP 68 (only for 3497)			





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Ordering Information

poc 2	: capacities								
0.5 t	1 t								
0.7 t	2 t								
	pos. 3: output sensitivity								
	2 mV/V								
		pos. 4: n	on-linearity	or accurac	y class				
		0.02 %fs							
			pos. 5: b	ridge resist	ance				
			350 Ω (Rin	= 360±10 Ω,		,			
				-		end/fixed e	nd)		
				1xM12 / 2x					
						ectrical inte			
						conductors/cable jacket/cable length s shielded, PVC, length = 3.5* m			
						pos. 8: er	vironment	protection	
						IP 66		•	
						IP 67 IP 68 (only for 3497)			
							·	**. 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 sale representative.	
								Code "C" can be omitted if no customized spec's are required.	

*: This value can also be a customized value.

**: NA = not available or not applicable

example: 3417-1t-2mV/V-0.02%fs-350Ω-1xM12/8xΦ13-5.7/4/PVC/3.5-IP66-loadFoot-C



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