Model 1310/1390 Shear-web Load Cells



Features

- shear-web working principle
- capacity range from 1 t to 10 t
- accuracy up to 0.1 %fs
- mild steel construction with nickel plated treatment (1310)
 17-4PH construction (1390)
- IP 66 environment protection



Applications

- truck scales
- batching plant weighing scales

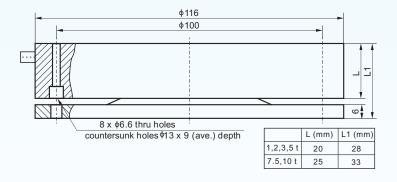
Description

Model 1310/1390 is compression load cell made of shear-web working principle. These load cells are relatively insensitive to the extraneous load and moments (torque).

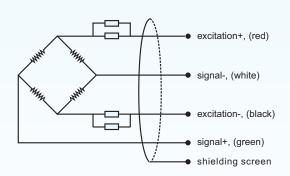
1310/1390 load cells have load capacities from 1 t to 10 t, and the measuring accuracy is up to 0.1%fs (fs = full scale).

1310 load cells are made from mild steel, while 1390 load cells are made from 17-4PH stainless steel. These load cells are rugged in design and can be used in applications in harsh industrial environment. 1310/1390 load cells are widely used in truck scales, track, tank and hopper scales.

Dimensions



Electrical connections



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Technical Data

parameters	units	specifications						
capacity	t	1, 2, 3, 5, 7, 10						
safe load limit	%fs	120						
ultimate overload	%fs	150						
output sensitivity at fs	mV/V	2.0 ± 0.2						
zero unbalance	%fso	±2						
non-linearity	%fs	± 0.1	± 0.25	± 0.5				
hysteresis	%fs	± 0.1	± 0.25	± 0.5				
repeatability	%fs	± 0.05	± 0.1	± 0.2				
creep error (30 min.)	%fs	± 0.1	± 0.2	± 0.5				
excitation (supply voltage)	Vdc	10 (recommended), 9,, 12						
max. excitation voltage	Vdc	18						
input resistance	Ω	2000 ± 200 (standard), 700 ± 80						
output resistance	Ω	2000 ± 50 (standard), 700 ± 20						
insulation resistance	ΜΩ	≥ 5000@50 Vdc						
storage temp. range	°C	-35 ~ +80						
operating temp. range	°C	-35 ~ +65						
compensated temp. range	°C	-10 ~ +55						
temp. coefficient of span	%fs/°C	± 0.003						
temp. coefficient of zero	%fs/°C	± 0.005						
load cell body material		mild steel (1310), 17-4PH (1390)						
sealing		potted						
mechanical interface		refer to the dimensions on the datasheets						
electrical interface		Ф5mm, 4-conductor shielded cable, PVC jacket, 3m (5m for cap.>5t)						
environment protection		IP 66						
unit weight	kg	~2						

The listed specifications and dimensions are subject to change without prior notice.



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Model 1310/1390 Shear-web Load Cells



Ordering Information

position (pos.) 1: mo	del									
	from mild ste	eel I stainless ste	مما								
1000. made	pos. 2: ca		,,,,								
	1 t 2 t 3 t	10 t									
	5 t 7 t										
		pos. 3: output sensitivity									
		2 mV/V									
			pos. 4: no	on-linearity	or accuracy	y class					
			0.1 %fs 0.25 %fs 0.5 %fs								
			0.0 7010	pos. 5: bi	ridge resista	ance					
				2000Ω (Rin = 2000±200 Ω, Rout = 2000±50 Ω) 700 Ω (Rin = 700±80 Ω, Rout = 700±20 Ω)							
					pos. 6: th	reads					
				8hole (refer to the dimensions on the datasheets)							
				pos. 7: electrical interface							
						cable, code = diameter(Φ)/number of conductors/cable jacket/cable length 5/4/PVC/L = Φ 5mm,4-conductors shielded, PVC, length = 3* m					
			pos. 8: environmen		protection						
							IP 66				
								pos. 9: a	ccessories for installation		
								NA**. In ca	ase 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 be a customized value.

example: 1310-10t-2mV/V-0.5%fs-2000 Ω -8hole-5/4/PVC/5-IP66-C



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^{**:} NA = not available or not applicable