



# Model 1310/1390

## Shear-web Load Cells



### 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	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 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		Φ5mm, 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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## Ordering Information

<b>position (pos.) 1: model</b>									
1310: made from mild steel 1390: made from 17-4PH stainless steel									
<b>pos. 2: capacities</b>									
1 t                    10 t 2 t 3 t 5 t 7 t									
<b>pos. 3: output sensitivity</b>									
2 mV/V									
<b>pos. 4: non-linearity or accuracy class</b>									
0.1 %fs 0.25 %fs 0.5 %fs									
<b>pos. 5: bridge resistance</b>									
2000Ω (Rin = 2000±200 Ω, Rout = 2000±50 Ω) 700 Ω (Rin = 700±80 Ω, Rout = 700±20 Ω)									
<b>pos. 6: threads</b>									
8hole (refer to the dimensions on the datasheets)									
<b>pos. 7: electrical interface</b>									
cable, code = diameter(Φ)/number of conductors/cable jacket/cable length 5/4/PVC/L = Φ5mm,4-conductors shielded, PVC, length = 3* m									
<b>pos. 8: environment protection</b>									
IP 66									
<b>pos. 9: accessories for installation</b>									
NA**. In case of "NA", pos.9 can be omitted.									
<b>pos. 10: customized spec's</b>									
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.									
<b>pos.1</b>	<b>pos. 2</b>	<b>pos. 3</b>	<b>pos. 4</b>	<b>pos. 5</b>	<b>pos. 6</b>	<b>pos. 7</b>	<b>pos. 8</b>	<b>pos. 9</b>	<b>pos. 10</b>

\*: This value can be a customized value.

\*\* : NA = not available or not applicable

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



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