# Model 1310/1390 Shear-web Load Cells



#### **Features**

- low profile
- capacity from 1t to 10t
- accuracy up to 0.1%fs
- sensor material: mild steel (1310) or 17-4PH stainless steel (1390)
- IP 66 environment protection

### **Applications**

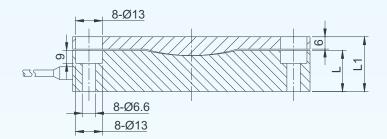
- truck scales
- batching plant weighing scales

### **Description**

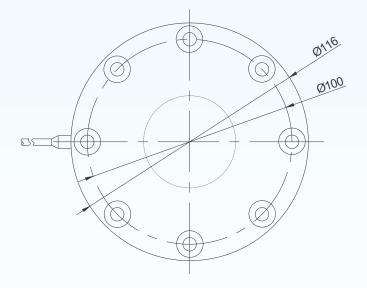
Model 1310/1390 is designed to be rugged and to work in harsh environment. The load cell is consist of two parts. One is the base which functions as a sensor and the other is a cap which functions as a loading platform. Thanks to this split structure, the 1310/1390 has excellent resistance to the eccentric load. Both models are widely used in truck scales, track, tank and hopper scales.

The shear-web working principle is applied on the 1310/1390 so that the load cell can have its measuring accuracy is up to 0.1%fs (fs = full scale) while having its capacities from 1t to 10t. The 1310 is made from mild steel, and the 1390 is made from 17-4PH stainless steel.

#### **Dimensions**



	L (mm)	L1 (mm)
1,2,3,5 t	20	28
7.5,10 t	25	33





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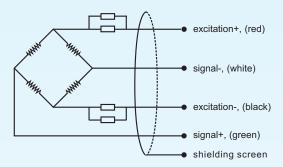
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# Model 1310/1390 Shear-web Load Cells



#### **Electrical Connections**



#### **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		Φ5mm, 4-conductor shielded cable, PVC jacket, 3m (5m for cap.>5t)		
environment protection		IP 66		
unit weight	kg	~ 2		

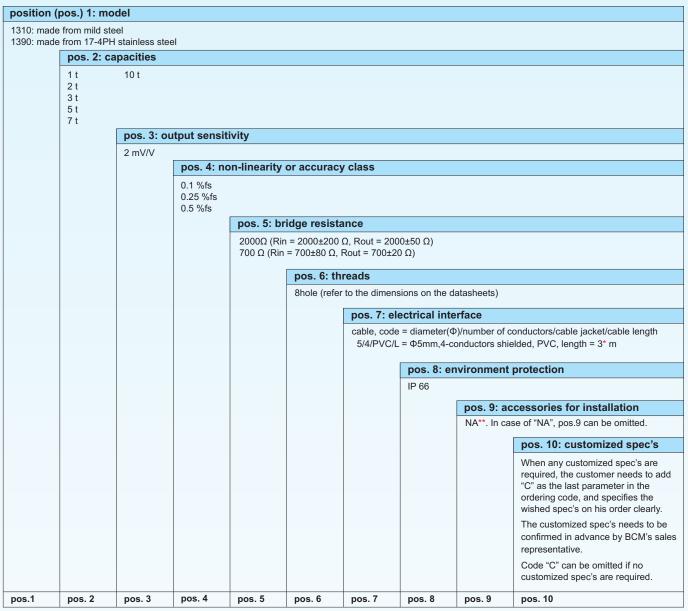
The listed specifications and dimensions are subject to change without prior notice.

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### **Ordering Information**



<sup>\*:</sup> This value can be a customized value.

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



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<sup>\*\*:</sup> NA = not available or not applicable