

Compression Load Cell

FEATURES

- Capacities: 10-100T
- Low profile, multi-column stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d and NTEP class IIIL 10000 divisions
- Built-in surge protection tubes (GDTs)
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells

Optional

- o ATEX and FM certified versions are available for use in potentially explosive atmospheres
- Digital version available (Model SCC)
- o Multi-interval and multiple range versions available
- o Imperial capacities (25k, 50k, 100k, 200k lbs) not OIML approved







APPLICATIONS

- Truck and rail weighbridges
- · Silo and hopper weighing
- · Process weighing

DESCRIPTION

The CSP-M is a multi-column, low profile, stainless steel compression load cell. The unique four column design offers excellent insensitivity to eccentric loads while maintaining accuracy.

This product is, without doubt, one of the most successful compression cells ever produced and is suitable for use in road and rail weighbridges and process weighing applications.

The fully leak-tested welded construction, advanced cable entry, and built-in surge protection tubes ensure that this product can be used successfully in harsh environments.

This product meets the stringent Weights and Measures requirements throughout Europe.

OUTLINE DIMENSIONS in millimeters 1/2" NPT ØD

Cable specifications

Cable length 20m (10m for 10T version)

Excitation + Green Excitation -Black Output + White Output -Red Shield Transparent

Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened.

Capacity	10, 25	40, 60	100	
Α	72.0	105.0	150.0	
В	83.0	127.0	185.0	
С	13.0	35.0	70.0	
D	58.0	82.5	123.8	
E	6.5	8.0	23.6	
F	1.8	11.0	21.8	
G	63.0	83.0	107.0	
Н	32.0	59.0	80.0	
J	M12x1.75 (8 Deep)	M20 x 2.5 (20 Deep)		
K Rad	150.0	150.0	430.0	

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Compression Load Cell

SPECIFICATIONS								
PARAMETER		UNIT						
Standard capacities (E _{max})		ton						
Accuracy class according to OIML R-60/NTEP	NTEP IIIL	Non-Approved	C3	C4				
Maximum no. of verification intervals	10000		3000	4000				
Minimum verification interval (V _{min=Emax/Y})			E _{max} /12,500	E _{max} /12,500				
Minimum verification interval, type MR			E _{max} /17,500	E _{max} /17,500				
Rated output (=S)		±mV/V						
Rated output tolerance		±mV/V						
Zero balance		±% FSO						
Combined error	0.0200	0.050	0.0200	0.0170	±% FSO			
Non-repeatability	0.0100	0.020	0.0100	0.0090	±% FSO			
Minimum dead load output return	0.0250	0.050	0.0167	0.0125	±% applied load			
Creep error (30 minutes)		0.060	0.0245	0.0184	±% applied load			
Creep error (20–30 minutes)	0.0300	0.0200	0.0053	0.0039	±% applied load			
Temp. effect on min. dead load output	(0.0008)	0.0250	0.0056	0.0056	±% FSO/5°C (/°F)			
Temp. effect on min. dead load output, type MR			0.0040	0.0040	±% FSO/5°C			
Temperature effect on sensitivity	(0.0010)	0.0250	0.0050	0.0035	±% applied load/5			
Minimum dead load		% E _{max}						
Maximum safe overload		% E _{max}						
Ultimate overload		% E _{max}						
Maximum safe side load		% E _{max}						
Deflection at E _{max}		mm						
Excitation voltage		V						
Maximum excitation voltage		V						
Input resistance	450±4.5				Ω			
Output resistance		Ω						
Insulation resistance	>5000			ΜΩ				
Compensated temperature range	-10 to +40			°C				
Operating temperature range	-40 to +80			°C				
Storage temperature range		°C						
Element material								
Sealing (DIN 40.050 / EN60.529)								

^{(1) 100}T only has C1 grade of OIML

FSO-Full Scale Output

SC-version: The rated output and the output resistance are balanced in such a way, that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.

All specifications subject to change without notice.



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Vishay Precision Group

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