

LAUMAS®

CBL Series - Low Profile Compression Load Cells

Part No. CBL500

Overview

Laumas CBL Series low-profile compression load cells provide a force reading in compression applications with capacities ranging from 250 kg to 12,500 kg. An IP68 rating ensures reliable performance in tough environments, making the CBL a great solution for industrial tank weighing applications. Horizontal constraint mounting accessories are available for tanks and other applications requiring limited horizontal force. Laumas load cells are manufactured in Europe to high quality specifications and quality standards.

Features

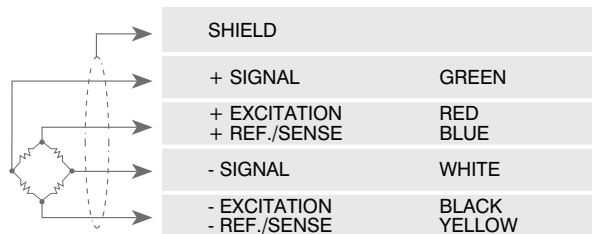
- Low profile for easy installation in tight spaces
- Tough corrosion-resistant stainless steel construction
- 150% overload rating prevents damage and extends sensor lifespan
- Ideal for tanks, hoppers, and heavy industrial applications
- Integrated shielded 6-conductor cable
- IP68 protection rating
- Made in Italy



CBL Series Low Profile Compression Load Cells												
Part Number	Load Rating	Material	Accuracy	Voltage Signal Range	Operating Voltage	Output Resistance	Electrical Connection	Price	Weight (lbs)	Drawing Link	Manufacturer Technical Specifications	Manufacturer Installation Guidelines
CBL250	550 lb/250 kg	17-4PH Stainless Steel PVC cable	+/- 0.03% of full scale	2 mV/V	3-15 VDC	700Ω	16.4ft/5m integral 4-wire shielded cable	\$325.00	2.75	PDF	PDF	PDF
CBL500	1102 lb/500 kg							\$325.00	2.78	PDF		
CBL1000	2204 lb/1000 kg							\$325.00	2.79	PDF		
CBL2500	5510 lb/2500 kg							\$325.00	2.84	PDF		
CBL5000	11020 lb/5000 kg							\$325.00	2.90	PDF		
CBL7500	16530 lb/7500 kg							\$325.00	3.00	PDF		
CBL10000	22040 lb/10000 kg							\$325.00	3.01	PDF		
CBL12500	27550 lb/12500 kg		+/- 0.02% of full scale					\$405.00	3.48	PDF		

Note: For additional wiring, specifications and installation information, refer to the additional Manufacturer Specs and Manual PDFs.

Wiring




Sizing of load cells capacity

For static weighing, it is advisable to implement a safety factor and only use load cells at a maximum of 70-80% of its nominal capacity (assuming that the load is uniformly distributed over the entire weighed structure). Further reduction may be required for loads that are not uniform; for example, forklift handling and bridge crane applications. Dynamic loads require the consideration of additional introduced forces that contribute to the total maximum load on the load cell.

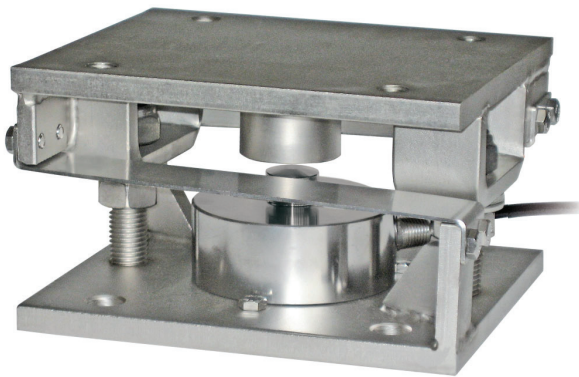


CBL Series - Low Profile Compression Load Cells

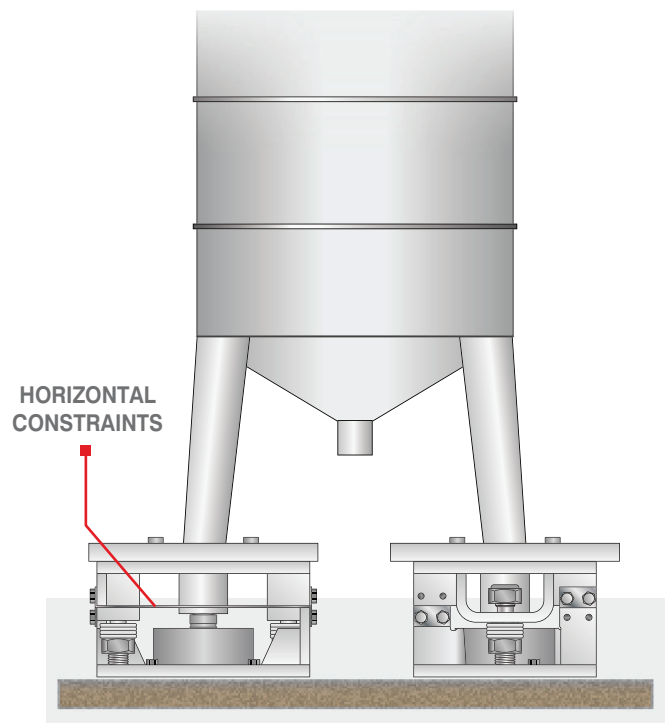
CBL Series Low Profile Compression Load Cell - Accessory								
Item Photo	Part No.	Description	Material	Price	Weight (lbs)	Drawing Link	Manufacturer Technical Specifications	Manufacturer Installation Guidelines
	V10000	Laumas compression mounting hardware, stainless steel, 33060 lb/15000 kg. For use with Laumas CBL series load cells.	304 Stainless Steel	\$249.00	12.926	PDF	PDF	PDF

Note: For additional wiring, specifications and installation information refer to the additional Manufacturer Specs and Manual PDFs.

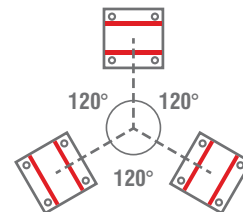
Assembly Example



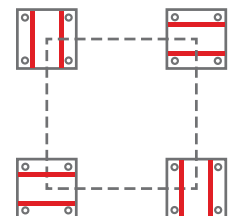
Application Example



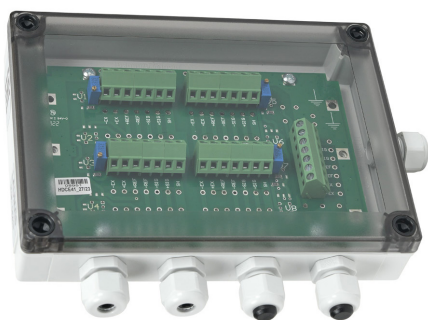
HORIZONTAL CONSTRAINTS
ORIENTATION
IN STRUCTURES WITH
3-POINT SUPPORT



HORIZONTAL CONSTRAINTS
ORIENTATION
IN STRUCTURES WITH
4-POINT SUPPORT



LAUMAS® Equalization Junction Box

Part No. **CE41N**

Overview

The Laumas CE41N equalization junction box provides an easy way to take multiple load cells in a weighing system and sum them up for a total weight. The CE41N's built-in potentiometers allow for trimming the individual load cells that make up the summed signal so the same load applied at each cell provides a consistent change to the combined output signal. Multiple units can be utilized to allow for even larger numbers of load cells to be used with electronics with multiple inputs (up to 16 load cells with the [TLB4](#), for example).

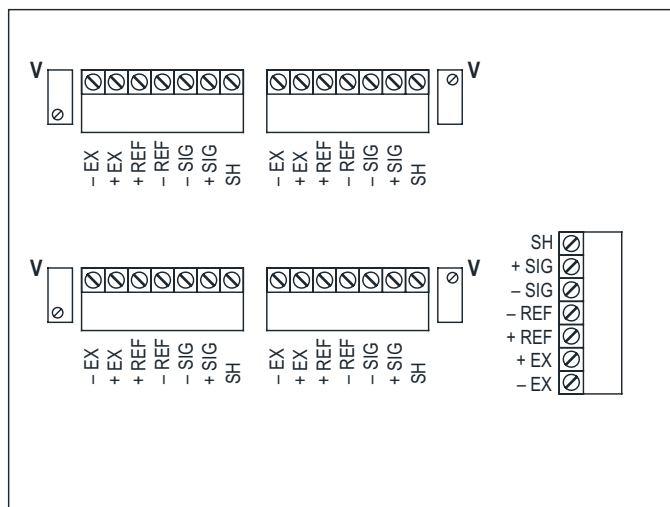
Features

- Clear cover for easy inspection of wiring
- Trimmer potentiometers for signal equalization of up to 4 load cells
- IP67 protection rating
- Cable glands included
- Works with 4- or 6-wire load cells
- Made in Italy

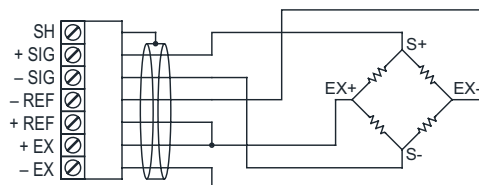
Equalization Junction Box					
Part Number	Description	Price	Weight (lbs)	Drawing Link	Manufacturer Technical Specifications
CE41N	Laumas equalization junction box, ABS plastic. For use with up to (4) 4- or 6-wire load cells.	\$89.00	0.952	PDF	PDF

Note: For additional wiring, specifications and installation information refer to the additional Manufacturer Specs PDFs.

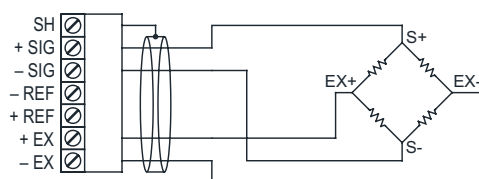
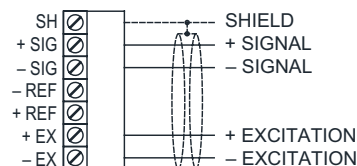
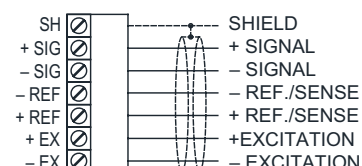
Wiring



6-WIRE LOAD CELLS CONNECTION



4-WIRE LOAD CELLS CONNECTION

4-WIRE OUTPUT CABLE
WITH 4-WIRES LOAD CELL6-WIRE OUTPUT CABLE
WITH 6-WIRE LOAD CELL6-WIRE OUTPUT CABLE
WITH 4-WIRE LOAD CELL