

Single Ended Beam Load Cell



FEATURES

- Capacities: 250, 500, 1000, and 2000kg
- Low profile, stainless steel construction
- Certified to OIML R-60, 3000d
- Sealing: IP67 (EN 60.529)
- 1000 Ohm bridge impedance
- Mechanically interchangeable with existing model HCB
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Integral mounting step

OPTIONAL FEATURE

- FM certified versions are available for use in potentially explosive atmospheres

DESCRIPTION

The ALC is a low profile stainless steel bending beam type load cell. An integral mounting step removes the need for spacer plates and ensures optimum “bolt down” conditions.

This product is suitable for small and medium platform scales, hybrid scales, pallet weighers and process weighing.

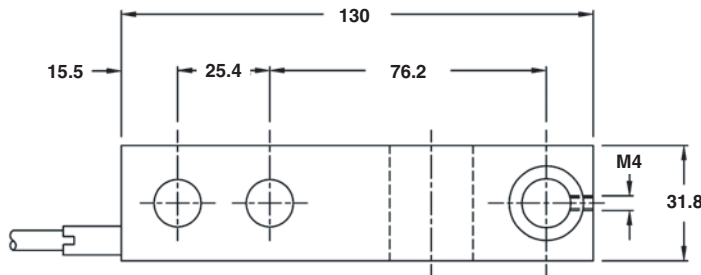
A reliable sealing and mechanical protection of the strain gauge area is ensured by the use of potting compound with a metal cover.

ALC Beams meet the stringent Weights and Measures requirements throughout Europe.

APPLICATIONS

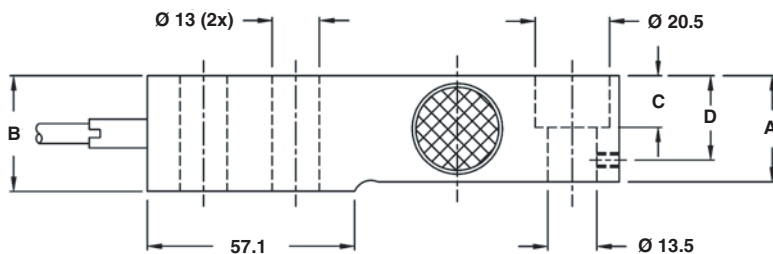
- Platform scales
- Belt scales
- Pallet scales
- Overhead track scales
- Silo hopper weighing

OUTLINE DIMENSIONS



Cable specifications :
Cable length: 3 meters

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



Capacity (kg)	250	500	1000	2000
A	25.2	26.1	29.2	34.0
B	31.8	31.8	31.8	35.8
C	13.2	14.2	14.2	14.2
D	22.2	23.2	23.2	23.2

Note: Dimensions in millimeters

**SPECIFICATIONS**

PARAMETER	VALUE			UNIT
Standard capacities (E_{max})	250, 500, 1000, 2000			kg
Accuracy class according to OIML R-60	Non-Approved	C3	C3MR	
Maximum no. of verification intervals (n)		3000	3000	
Minimum verification interval (V_{min})		$E_{max}/10,000$	$E_{max}/20,000$	
Rated output (=S)	2			mV/V
Tolerance on rated output	0.02			%mV/V
Zero balance	1.0			±% FSO
Combined error	0.0500	0.0200	0.0200	±% FSO
Non-repeatability	0.0200	0.0100	0.0100	±% FSO
Minimum dead load output return	0.0500	0.0167	0.0167	±% applied load
Creep error (30 minutes)	0.0600	0.0245	0.0245	±% applied load
Creep error (20 - 30 minutes)	0.0200	0.0053	0.0053	±% applied load
Temperature effect on minimum dead load output	0.0250	0.0070	0.0035	±% FSO/5°C
Temperature effect on sensitivity	0.0250	0.0045	0.0045	±% applied load/%°C
Minimum dead load	0			% E_{max}
Maximum safe over load	150			% E_{max}
Ultimate Over load	300			% E_{max}
Maximum safe side load	100			% E_{max}
Deflection at E_{max}	0.20, 0.20, 0.22, 0.31			mm
Excitation voltage	5 to 12			V
Maximum excitation voltage	15			V
Input resistance	1000±10			Ω
Output resistance	1000±10			Ω
Insulation resistance	≥5000			MΩ
Compensated temperature range	-10 to +40			°C
Operating temperature range	-40 to +80			°C
Storage temperature range	-40 to +90			°C
Element material (DIN)	Stainless steel 1.4542			
Sealing (DIN 40.050 / EN60.529)	IP67			
SC-Version (current calibration)	Standard			
Recommended torque on fixation bolts	50 → 75			N*m

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.

VISHAY TRANSDUCERS (VT) SALES OFFICES

VT Americas
City of Industry, CA
PH: +1-626-858-8899
FAX: +1-626-332-3418
vt.us@vishaymg.com

VT Netherlands
Breda
PH: +31-76-548-0700
FAX: +31-76-541-2854
vt.nl@vishaymg.com

VMG UK
Basingstoke
PH: +44-125-646-2131
FAX: +44-125-647-1441
vt.uk@vishaymg.com

VMG Israel
Netanya
PH: +972-9-863-8888
FAX: +972-9-863-8800
vt.il@vishaymg.com

VMG Germany
Heilbronn
PH: +49-7131-3901-260
FAX: +49-7131-3901-2666
vt.de@vishaymg.com

VT China
Tianjin
PH: +86-22-2835-3503
FAX: +86-22-2835-7261
vt.prc@vishaymg.com

VMG France
Chartres
PH: +33-2-37-33-31-20
FAX: +33-2-37-33-31-29
vt.fr@vishaymg.com

VT Taiwan*
Taipei
PH: +886-2-2696-0168
FAX: +886-2-2696-4965
vt.roc@vishaymg.com
*Asia except China