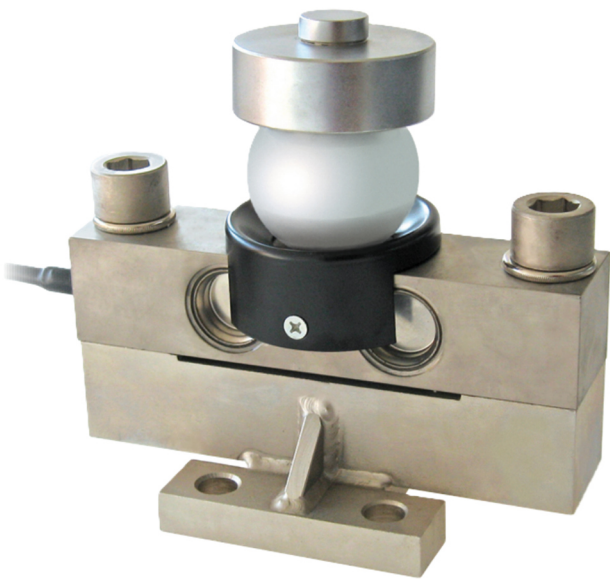


DOUBLE SHEAR BEAM LOAD CELL



- AISI 4340 NICKEL PLATED STEEL
- COMBINED ERROR $\leq \pm 0.02\%$
- IP68 PROTECTION RATING



NOMINAL LOAD (FS)

kN	t	Net weight (kg)	Accuracy Class	ISO 17025	Rated Output (mV/V)
250	25	16	C3	(optional)	2.0 $\pm 0.1\%$



TECHNICAL DATA

PRECISION

Rated Output (C _n)	2 mV/V ±0.1 % at FS
Zero Balance	< ±1 %
Combined error	≤ ±0.02 %FS
Non-linearity	≤ ± 0,014 %FS
Hysteresis	≤ ± 0,014 %FS
Creep	≤ ±0.016 %FS (at 30 min FS)
Temperature coefficient of zero	0.002 %FS/°C
Temperature coefficient of sensitivity	0.002 %FS/°C
Compensated temperature range	-10...+40 °C
Operating temperature range	-35...+65 °C
Reference Temperature	23 °C

MECHANICAL PROPERTIES

Material	AISI 4340 nickel plated steel
Deflection at FN	~ 0.6 mm

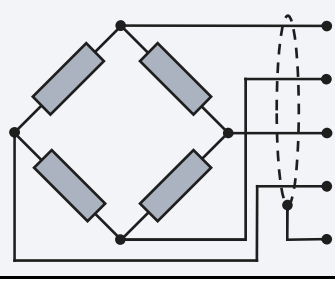
MECHANICAL LIMITS

Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Breaking load	> 300 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 4-wire
Input resistance	700±7 Ω
Output resistance	700±7 Ω
Insulation resistance	≥ 5,000 MΩ
Recommended excitation voltage	≤ 18 V
Cable diameter	6 mm
Cable length	20 m
Cores	4 x 0.22 mm ²

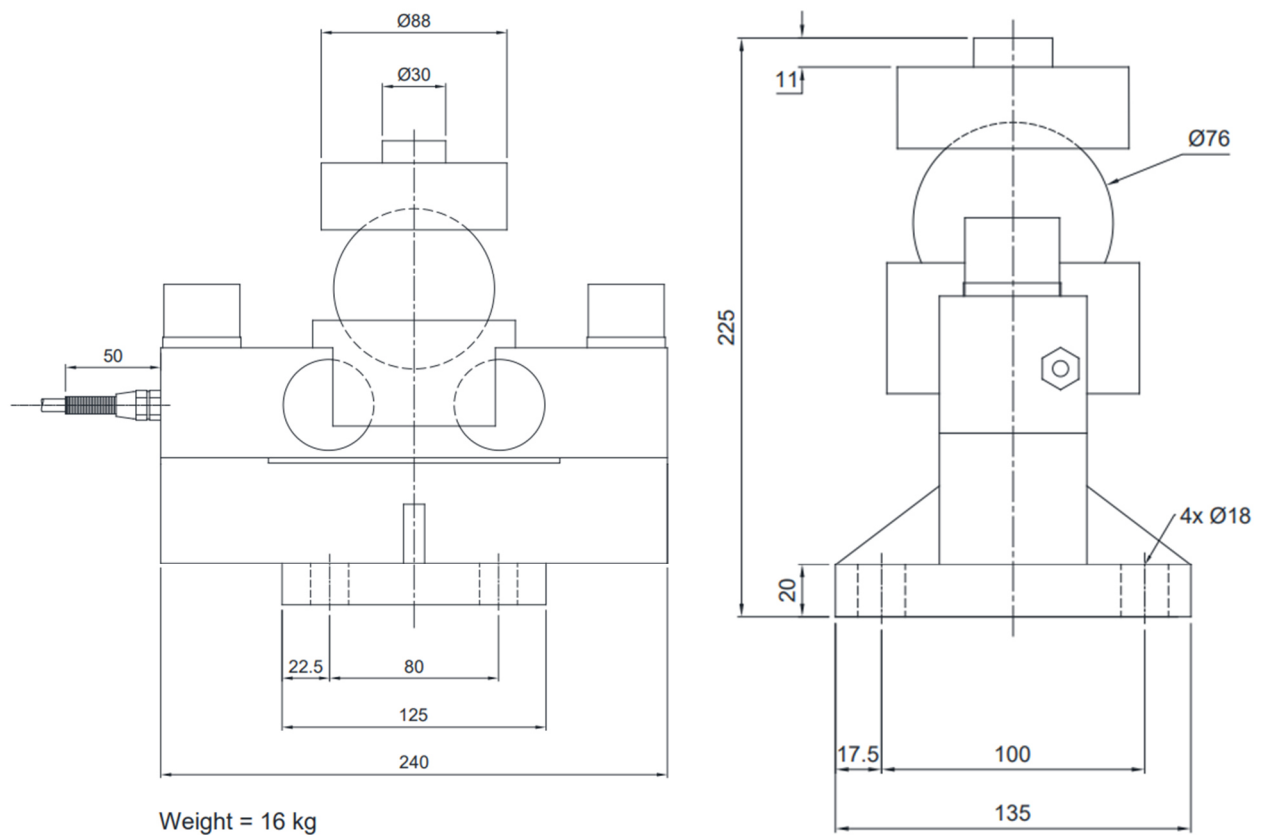
ELECTRICAL CONNECTION



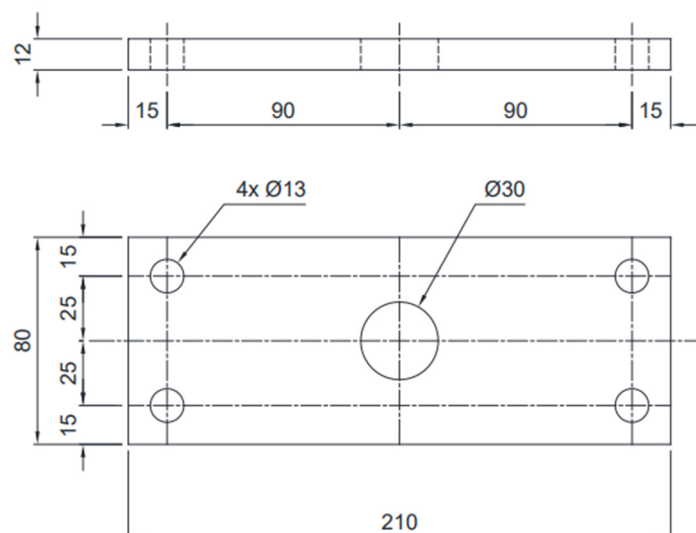
+ EXCITATION	RED
- EXCITATION	BLACK
- SIGNAL	WHITE
+ SIGNAL	GREEN
SHIELD	



DIMENSIONS (mm)



PIATTO LDLB



COMPLIANCE AND CERTIFICATION

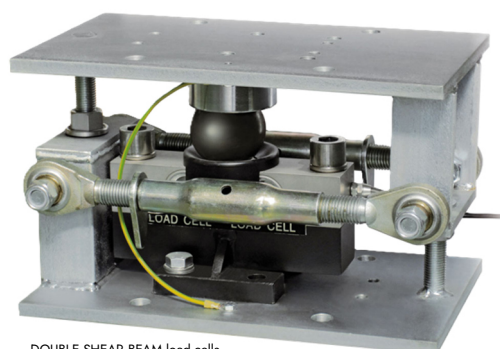
Protection Rating	IP68 according to IEC 60529	
Compliance	CE, RoHS, REACH	
Calibration	Factory calibrated, ISO 17025 calibration available on request	
HS-CODE	9031.80.80	
Certifications		OIML R60 C3
		Complies with the Eurasian Customs Union regulations
		Equivalent of the CE marking for the United Kingdom
Certifications (on request)		Calibration report
		ATEX (zone 2-22)
		ATEX/IECEx (zone 1-21)
		Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres
		FM HazLoc - Complies with the United States and Canada regulations for use in potentially explosive atmospheres
		Complies with Chinese market regulations for use in potentially explosive atmospheres



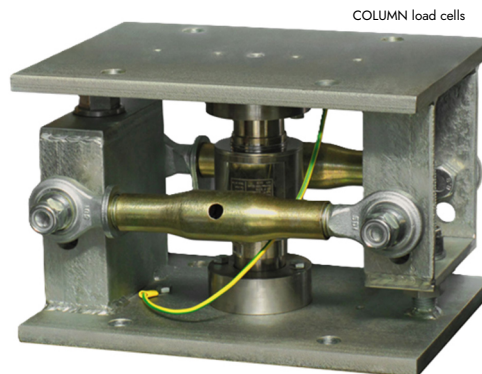
MOUNTING KITS

LMLAX

- Galvanized steel mounting kit for rigid attachment of the load cell.
- It prevents horizontal movement.



DOUBLE SHEAR BEAM load cells



COLUMN load cells

25 t
250 kN



Application

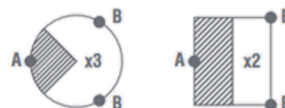
• LEVEL MEASUREMENTS

"Point support hinge" can be used in combination with the load cells for measuring the level of liquid or weighing powder products that do not require a high degree of precision. In order to achieve an improved result, it is absolutely necessary that the structure to be weighed has a uniform shape and is geometrically divisible.

It must be perfectly level, and the type of product to be weighed must enable horizontal positioning as if it were a liquid (any lumps must be located at the center of gravity). The electronic weight display will show the effective weight multiplying the signal by a factor of two or three, depending on the application.

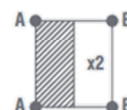
3 SUPPORTS STRUCTURES

1 load cell (A) + 2 hinges (B)

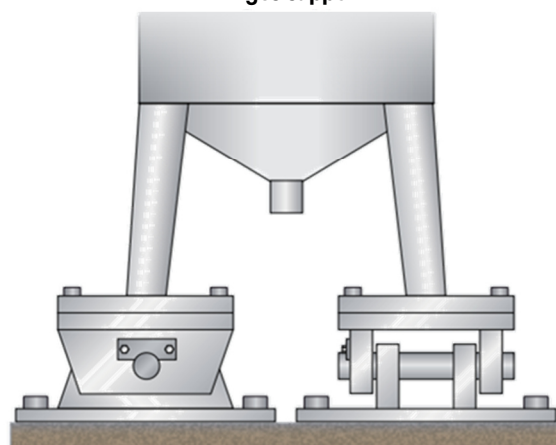
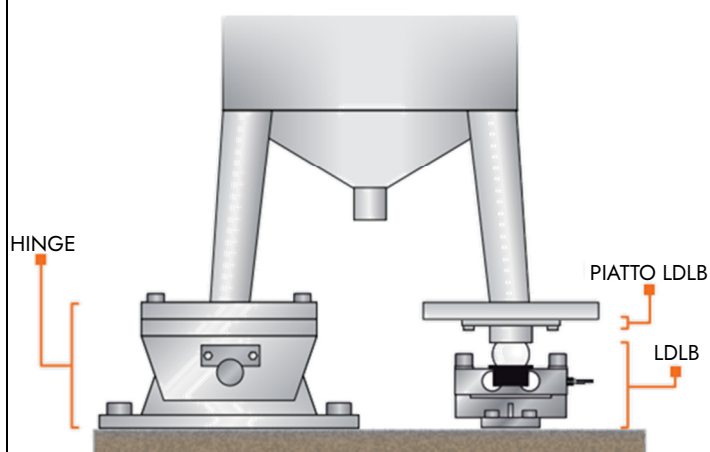


4 SUPPORTS STRUCTURES

2 load cell (A) + 2 hinges (B)



Hinges support



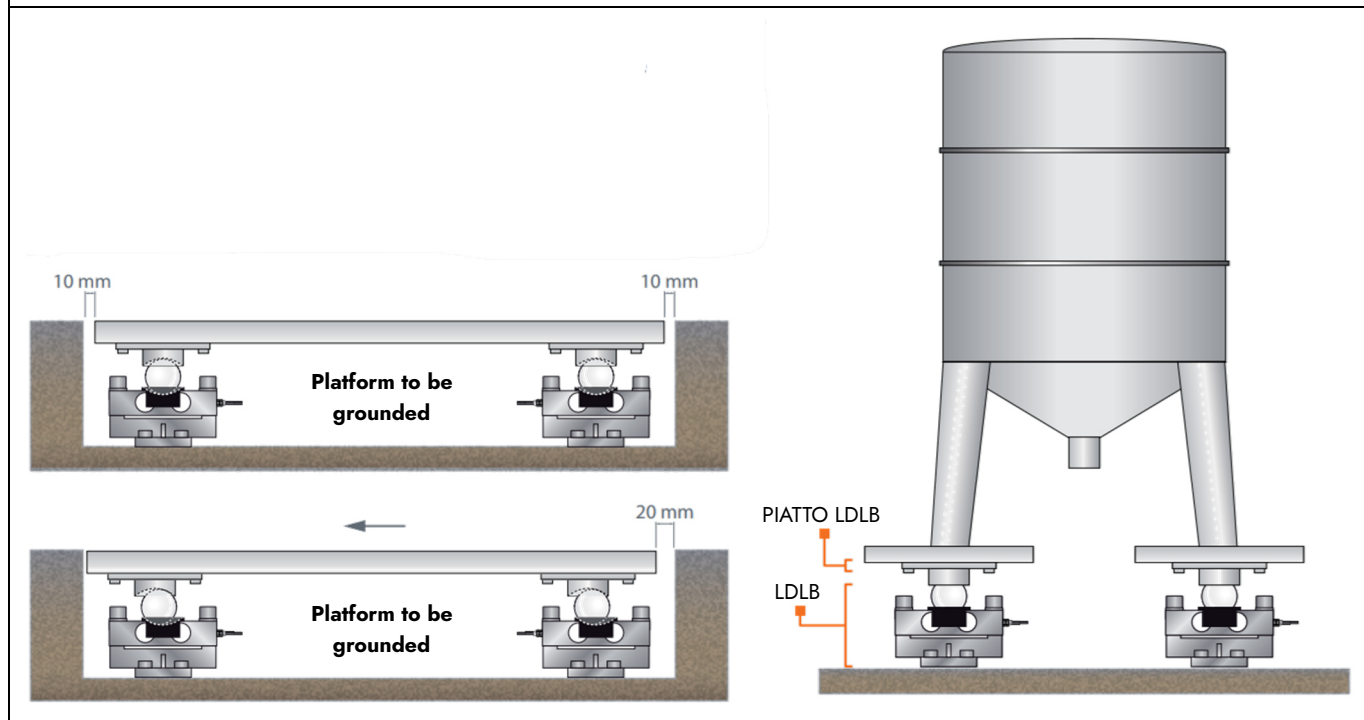
Application

- WEIGHING STRUCTURES NOT SUBJECT TO IMPACTS OR GUSTS OF WIND**

The load cell, equipped with bases plus ball, is designed for weighing structures not subject to impacts or gusts of wind.

PIATTO LBLD is designed for facilitating the load cell installation and removal; it will be sufficient to lift the structure by 1 mm.

The different bending radius between the ball and the bases, which contain it, causes any side shifts to lead to an elevation of the structure.

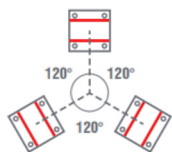


Application

• WEIGHING STRUCTURES SUBJECT TO IMPACTS OR GUSTS OF WIND

The LMLAX mounting kit is equipped with two turnbuckles with knuckle eyes against lateral forces with an ultimate tensile strength of 10000 kg each and two threaded rods (22 mm diameter) with nuts to use as a winch for the insertion and extraction of the cells and with two self-locking nuts for anti-tilt function. To ensure the stability of the structure, the designer must consider further measures according to the following conditions: impacts and vibrations; wind shear; seismic classification of the installation area; condition of the support base

3 SUPPORT STRUCTURES



4 SUPPORT STRUCTURES

