CBL

COMPRESSION LOAD CELLS - LOW PROFILE

LAUMAS®

Capacity from 250 kg to 100000 kg



MOUNTING KITS



V10000/V10275-EN1090 series



V15000/V100000-EN1090 series



Z10000



Z15000/100000 series

- 17-4 PH STAINLESS STEEL
- COMBINED ERROR ≤ ±0.03% (0.02% C3)
- IP68 PROTECTION RATING

CAPACITY kg	ACCURACY CLASS C2	C3		NET WEIGHT (kg)
250	–	–	–	1.1
500	–	–	–	1.1
1000	–	–	–	1.1
2500	•	•	•	1.1
5000	•	•	•	1.1
7500	•	•	•	1.1
10000	•	•	•	1.1
12500	–	•	•	1.6
15000	–	–	–	2.1
30000	–	–	–	3.8
50000	–	–	–	8.6
100000	–	–	–	9.1

ON REQUEST

Rev. 0.0

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CERTIFICATIONS

OIML R60 C2

Complies with the Eurasian Customs Union regulations

Equivalent of the CE marking for the United Kingdom

CERTIFICATIONS ON REQUEST

Declaration of conformity + IP69K marking protection rating
Water protection in case of high-pressure or steam jet cleaning (test: pressurized water is sprayed from a distance of max 150 mm)
Water pressure: 100 bar; temperature: 80 °C; test duration: 250 seconds (reference standard: DIN 40050-9)

Calibration report

LAT Accredia calibration certificate ISO 376 or ASTM E74 for capacities from 1000 kg to 10000 kg

ATEX *(zone 2-22)*

ATEX/IECEx *(zone 1-21)*

OIML R60 C3

Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres

Complies with Chinese market regulations for use in potentially explosive atmospheres

Complies with the regulations of the Russian Federation for legal for trade use

Complies with Chinese market regulations for legal for trade use

TECHNICAL FEATURES

Material	17-4 PH stainless steel		
OIML R60 Accuracy class • Verification intervals	-	C2 • 2000	C3 • 3000
Nominal load (E max)	250 - 500 - 1000 - 15000 kg 30000 - 50000 - 100000 kg	2500 - 5000 kg 7500 - 10000 kg	2500 - 5000 - 7500 kg 10000 - 12500 kg
Minimum verification interval (V min)	-	E max / 15000	E max / 15000
Combined error	≤ ±0.03%	≤ ±0.03%	≤ ±0.02%
Protection rating	IP68		

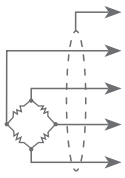
Rated output	2 mV/V ±0.1%	Input resistance	700 Ω ±10
Temperature effect on zero	0.005% °C	Output resistance	700 Ω ±10
Temperature effect on span	0.003% °C	Zero balance	±1%
Temperature range OIML R60	-10 °C / +40 °C	Insulation resistance	>10000 MΩ
Compensated temperature range	-20 °C / +70 °C	Safe overload (% of full scale)	150%
Operating temperature range	-30 °C / +90 °C	Ultimate overload (% of full scale)	300%
Creep at nominal load in 30 minutes	0.03%	Deflection at nominal load	0.4 mm
Max supply voltage without damage	15 V		

ELECTRICAL CONNECTIONS

Cable length	5 m*(250-10000 kg); 10 m (12500-100000 kg)
Cable diameter	5 mm
Cores	6 x 0.14 mm²

**) On request: 10 m long cable version*

The ATEX/IECEx zone 1–21 (except for 250 kg and 500 kg capacities) and OIML R60 C3 approved load cells are equipped with a 10 m long cable



SHIELD	
+ SIGNAL	GREEN
+ EXCITATION + REF./SENSE	RED BLUE
- SIGNAL	WHITE
- EXCITATION - REF./SENSE	BLACK YELLOW

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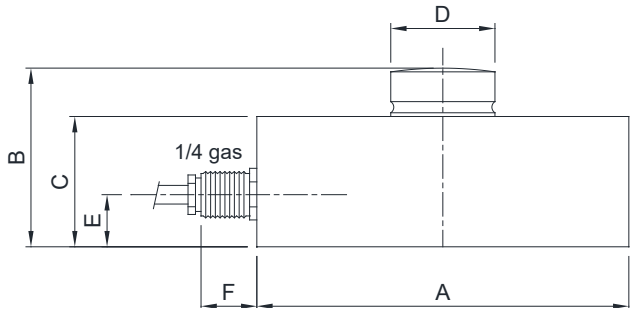
OPTIONS ON REQUEST

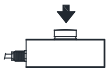
	DESCRIPTION
10 m	10 m long cable version for 1000-10000 kg capacities
AISI 420	AISI 420 stainless steel load cell version (not OIML approved)
	Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems

COMPLEMENTARY ACCESSORIES

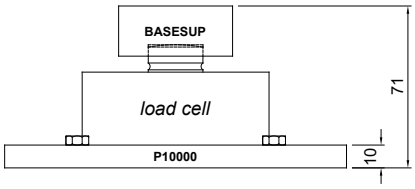
	DESCRIPTION		MODEL
	AISI 304 stainless steel threaded upper base for compression load cells.	M12x1.75 mm	BASESUPFIL
	AISI 304 stainless steel turned lower base for compression load cells.	Ø110x22 mm Ø140x23 mm Ø180x23 mm	BINF100 BINF126 BINF165
	Lower plate and turned upper base in AISI 304 stainless steel. Load cell capacity: up to 12500 kg.		BASESUP P10000
	Turned upper and lower bases in AISI 304 stainless steel. Load cell capacity: up to 12500 kg.		BASESUP BASEINF
	Lower plate and turned lower base in AISI 304 stainless steel. Load cell capacity: up to 12500 kg.		BASEINF PIASTRA200

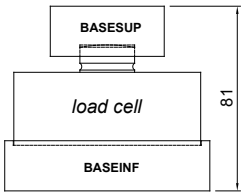
DIMENSIONS (mm)

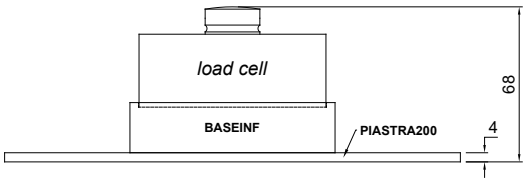




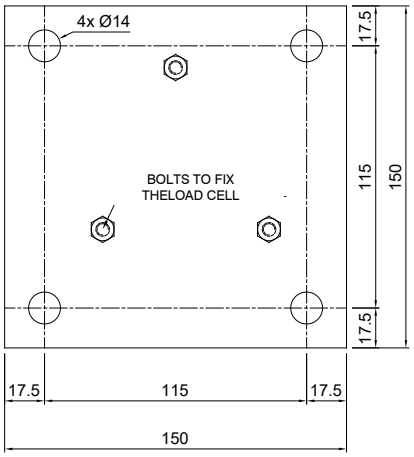
kg	250 : 12500	15000	30000	50000 100000
A	Ø82	Ø100	Ø126	Ø164
B	44	48	54	80
C	32	35	40	60
D	Ø22	Ø28	Ø35	Ø60
E	14	14	14	26
F	15	15	15	15



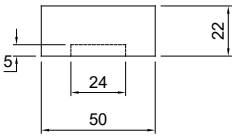




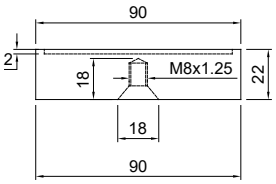
P10000



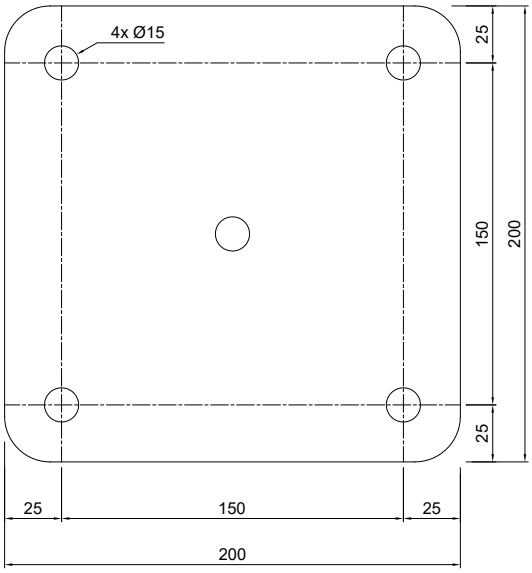
BASESUP



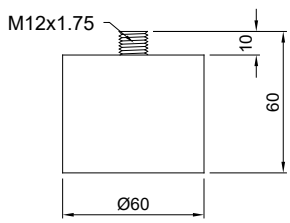
BASEINF



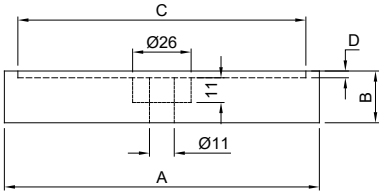
PIASTRA200



BASESUPFIL



BINF



	A	B	C	D
BINF100	Ø110	22	Ø102	2
BINF126	Ø140	23	Ø128	3
BINF165	Ø180	23	Ø167	3

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