FTP

SHEAR BEAM AND BENDING LOAD CELLS

LAUMAS®

BENDING BEAM: capacity from 75 kg to 300 kg



SHEAR BEAM: capacity from 500 kg to 10000 kg



MOUNTING KITS



- AISI 420 STAINLESS STEEL
- COMBINED ERROR ≤ ±0.02%
- IP67 - IP68 PROTECTION RATING

CAPACITY kg	ACCURACY CLASS C3	NET WEIGHT (kg)
75	•	0.9
150	•	0.9
300	•	0.9
500	•	0.9
750	•	0.9
1000	•	0.9
1500	•	0.9
2000	•	0.9
3000	–	1.6
5000	–	1.6
10000	–	3.8

CERTIFICATIONS

OIML R60 C3

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 *(zone 1-21)*

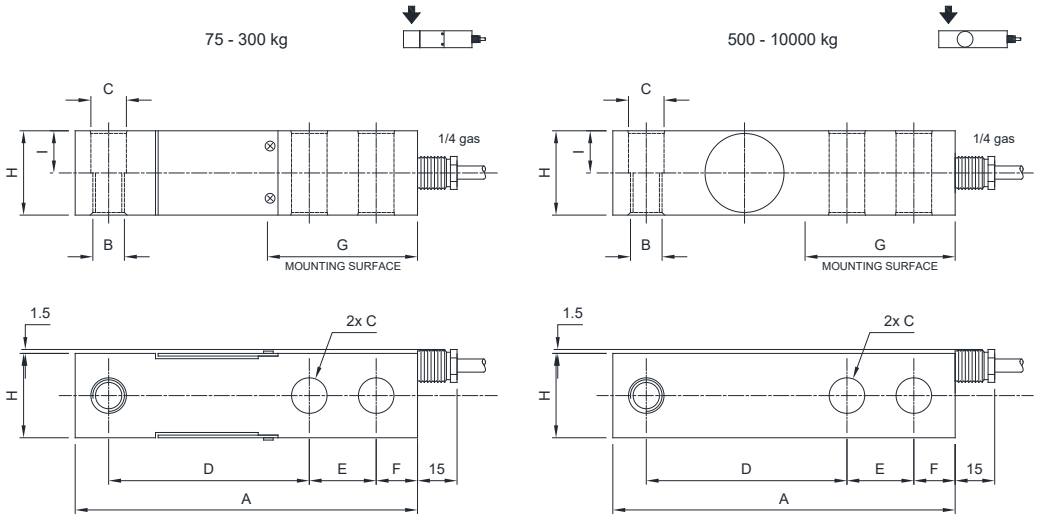
IECEx *(zone 1-21)*

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 Chinese market regulations for legal for trade use

DIMENSIONS (mm)



	75 - 2000 kg	3000 - 5000 kg	10000 kg
A	130	171.5	222.5
B	M12x1.75	M20x2.5	M24x2
C	Ø 13.5	Ø 21	Ø 26.2
D	76.2	95.3	123.8
E	25.4	38.1	50.8
F	15.7	19.1	25.4
G	53	76	102
H	32	38	51
I	16	19	25.5

For the load cell fixing screws, provide the tightening torque indicated in the table

Screw	M12		M20		M24	
Screw class	6.8	8.8	6.8	8.8	6.8	8.8
Tightening torque	50 Nm	79 Nm	290 Nm	400 Nm	500 Nm	690 Nm

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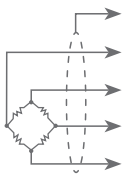
TECHNICAL FEATURES

Material	AISI 420 stainless steel	
OIML R60 Accuracy class • Verification intervals	C3 • 3000	-
Nominal load (E max)	75 - 150 - 300 - 500 - 750 1000 - 1500 - 2000 kg	3000 - 5000 - 10000 kg
Minimum verification interval (V min)	E max / 15000	-
Combined error	≤ ±0.02%	
Protection rating	IP67 (75 - 300 kg), IP68 (500 - 10000 kg)	
Input resistance	385 Ω ±10	400 Ω ±15
Output resistance	350 Ω ±3	350 Ω ±5

Rated output	2 mV/V ±0.4%	Max supply voltage without damage	15 V
Temperature effect on zero	0.002% °C	Zero balance	±2%
Temperature effect on span	0.0012% °C	Insulation resistance	≥5000 MΩ
Compensated temperature range	-10 °C / +40 °C	Safe overload (% of full scale)	150%
Operating temperature range	-20 °C / +70 °C	Ultimate overload (% of full scale)	200%
Creep at nominal load in 30 minutes	0.03%	Deflection at nominal load	0.4 mm

ELECTRICAL CONNECTIONS

Cable length	5 m (75-5000 kg); 10 m (10000 kg)
Cable diameter	5 mm
Cores	6 x 0.25 mm²



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

The Company reserves the right to make changes to the technical data, drawings and images without notice.