FTKL

SHEAR BEAM LOAD CELLS

LAUMAS®

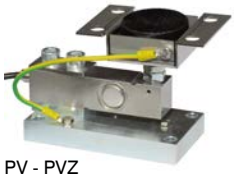
Capacity from 500 kg to 5000 kg



- AISI 4340 NICKEL PLATED STEEL
- COMBINED ERROR ≤ ±0.02% (0.017% C4; 0.014% C5)
- IP67 PROTECTION RATING

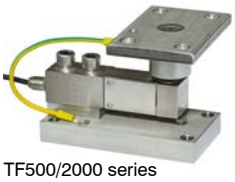
MOUNTING KITS


PVEN1090


PV - PVZ


TFPS2000 series


T12FTAGP


TF500/2000 series

CAPACITY kg	ACCURACY CLASS C3	C4	C5	NTEP	NET WEIGHT (kg)
500	•	•	•	•	0.8
1000	•	•	•	•	0.8
1500	•	•	•	•	0.9
2000	•	•	•	•	0.9
3000	•	•	•	•	1.7
5000	•	•	•	•	1.7

ON REQUEST

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

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 C4/C5

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

NTEP - Complies with United States regulations for legal for trade use

LAUMAS S.r.l.
Fax: (+39) 0521 681091
• SALES DEPARTMENT: sales@laumas.it
• Phone: (+39) 0521 683124

ISO 9001
ISO 14001

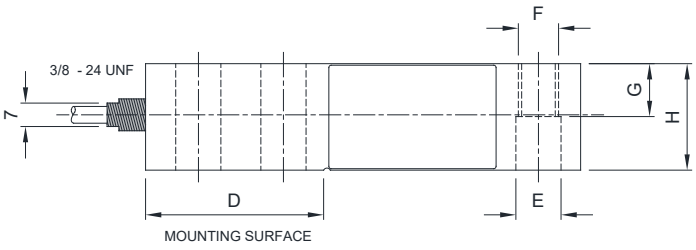
FTKL
SHEAR BEAM LOAD CELLS

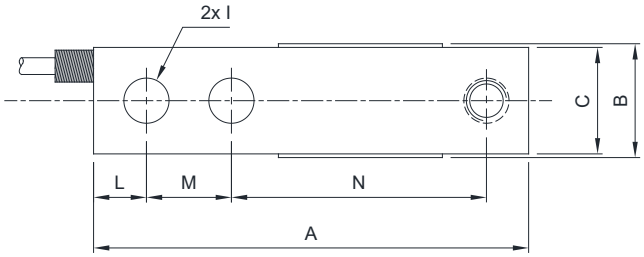
LAUMAS®

COMPLEMENTARY ACCESSORIES

	DESCRIPTION	MODEL
	Special steel block for capacities up to 2000 kg.	PIASTRINO

DIMENSIONS (mm)







	500 kg	1000 - 1500 2000 kg	3000 - 5000 kg
A	130	130	171.5
B	-	32.8	39.1
C	31.8	31.8	38.1
D	53.2	53.2	76.2
E	Ø13.5	Ø13.5	Ø19.8
F	M12x1.75	M12x1.75	M18x1.5
G	16	16	19.3
H	31.8	31.8	38.1
I	Ø13.5	Ø13.5	Ø19.8
L	15.8	15.8	19.1
M	25.4	25.4	38.1
N	76.2	76.2	95.3

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

Screw	M12		M18	
Screw class	6.8	8.8	6.8	8.8
Tightening torque	50 Nm	79 Nm	205 Nm	280 Nm

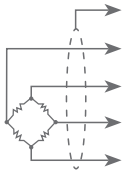
TECHNICAL FEATURES

Material	AISI 4340 nickel plated steel			
OIML R60 Accuracy class • Verification intervals	C3 • 3000	C4 • 4000	C5 • 5000	
Nominal load (E max)	500 - 1000 - 1500 kg 2000 - 3000 - 5000 kg		500 - 1000 kg 1500 - 2000 kg	3000 - 5000 kg
Minimum verification interval (V min)	E max / 10000	E max / 15000	E max / 20000	E max / 18000
Combined error	≤ ±0.02%	≤ ±0.017%	≤ ±0.014%	
Protection rating	IP67			

Rated output	3 mV/V ±0.1%	Input resistance	350 Ω ±3.5
Temperature effect on zero	0.0018% °C	Output resistance	350 Ω ±3.5
Temperature effect on span	0.0014% °C	Zero balance	≤ ±1%
Compensated temperature range	-10 °C / +40 °C	Insulation resistance	≥5000 MΩ
Operating temperature range	-35 °C / +65 °C	Safe overload (% of full scale)	150%
Creep at nominal load in 30 minutes	0.02%	Ultimate overload (% of full scale)	300%
Max supply voltage without damage	18 V	Deflection at nominal load	0.4 mm

ELECTRICAL CONNECTIONS

Cable length	4 m (500-2000 kg); 6 m (3000-5000 kg)
Cable diameter	5 mm
Cores	4 x 0.22 mm²



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

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

LAUMAS S.r.l. • SALES DEPARTMENT: sales@laumas.it
Fax: (+39) 0521 681091 • Phone: (+39) 0521 683124

ISO 9001
ISO 14001