# FCAX

## BENDING BEAM AND SHEAR LOAD CELLS

Manufactured according to OIML R60 standards

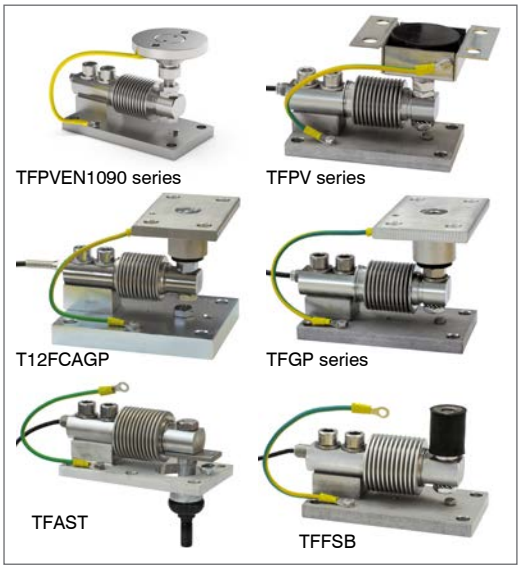
### BENDING BEAM: capacity from 30 kg to 500 kg

### SHEAR BEAM: capacity from 750 kg to 1500 kg

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



MOUNTING KITS




| CAPACITY kg | NET WEIGHT (kg) |
|---|---|
| 30 | 0.6 |
| 50 | 0.6 |
| 75 | 0.6 |
| 150 | 0.6 |
| 300 | 0.7 |
| 500 | 0.7 |
| 750 | 0.7 |
| 1000 | 0.7 |
| 1500 | 0.7 |

### CERTIFICATIONS

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)* |
| | Complies with the Eurasian Customs Union regulations for use in potentially explosive atmospheres |
| | Complies with Chinese market regulations for use in potentially explosive atmospheres |

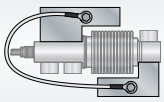
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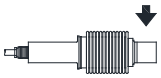
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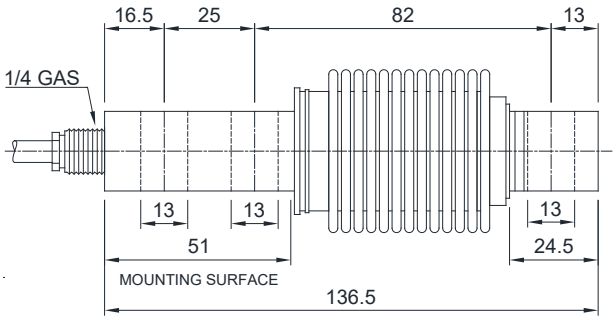
LAUMAS®

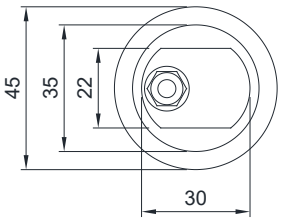
### COMPLEMENTARY ACCESSORIES

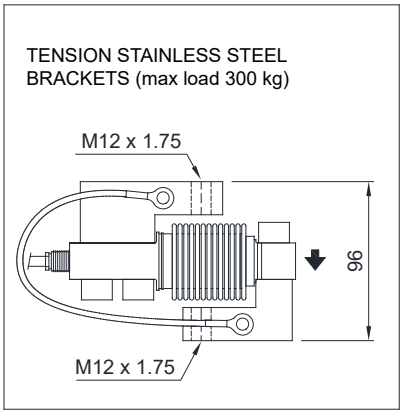
| | DESCRIPTION | MODEL |
|---|---|---|
|  | Pair of tension stainless steel brackets.<br>Maximum static load: 300 kg | STAFFEFCA |

### DIMENSIONS (mm)






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

| Screw | M12 | |
|---|---|---|
| Screw class | 6.8 | 8.8 |
| Tightening torque | 50 Nm | 79 Nm |

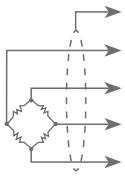
### TECHNICAL FEATURES

| | |
|---|---|
| Material | AISI 420 stainless steel |
| Nominal load (E max) | 30 - 50 - 75 - 150 - 300 - 500 - 750 - 1000 - 1500 kg |
| Combined error | ≤ ±0.02% |
| Protection rating | IP68 |

| | | | |
|---|---|---|---|
| Rated output | 2 mV/V ±0.4% | Input resistance | 385 Ω ±5 |
| Temperature effect on zero | 0.002% °C | Output resistance | 350 Ω ±5 |
| Temperature effect on span | 0.002% °C | Zero balance | ±1% |
| Compensated temperature range | -10 °C / +40 °C | Insulation resistance | >5000 MΩ |
| Operating temperature range | -20 °C / +50 °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 | 15 V | Deflection at nominal load | 0.4 mm |

### ELECTRICAL CONNECTIONS

| | |
|---|---|
| Cable length | 5 m |
| Cable diameter | 5 mm |
| Cores | 6 x 0.22 mm² |



| | |
|---|---|
| SHIELD | |
| + SIGNAL | GREEN |
| + EXCITATION<br>+ REF./SENSE | RED<br>BLUE |
| - SIGNAL | WHITE |
| - EXCITATION<br>- REF./SENSE | BLACK<br>YELLOW |

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


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