

LOAD CELLS AND MOUNTING KITS



new

DIGITAL

SINGLE POINT

BENDING BEAM

SHEAR BEAM

DOUBLE SHEAR BEAM

COMPRESSION-LOW PROFILE

COMPRESSION / TENSION

TENSION

COLUMN

PIN

FOR FOOT BRAKE

ANCHOR

WIRE ROPE MEASURING

MOUNTING KITS AND COMPLEMENTARY ACCESSORIES

Certifications



Load cells and mounting kits

LAUMAS offers a wide range of load cells of the most common types in the main industrial sectors providing for each of them the quality, availability and assistance.

Load cells: Single point, shear beam, double shear, bending, tension, compression, low profile, pin, anchor, wire rope measuring, pre-amplified, column, foot brake, for weighing bridge, digital, load limiters.

Mounting kits for load cells: For all load cells, LAUMAS is able to provide suitable weigh modules, with the aim of obtaining the correct application of the cell and maximum reliability and accuracy, and compatibly with the mechanical, electrical and pneumatic connections present on the weighing structure.

LCB

Universal load cells digitizer

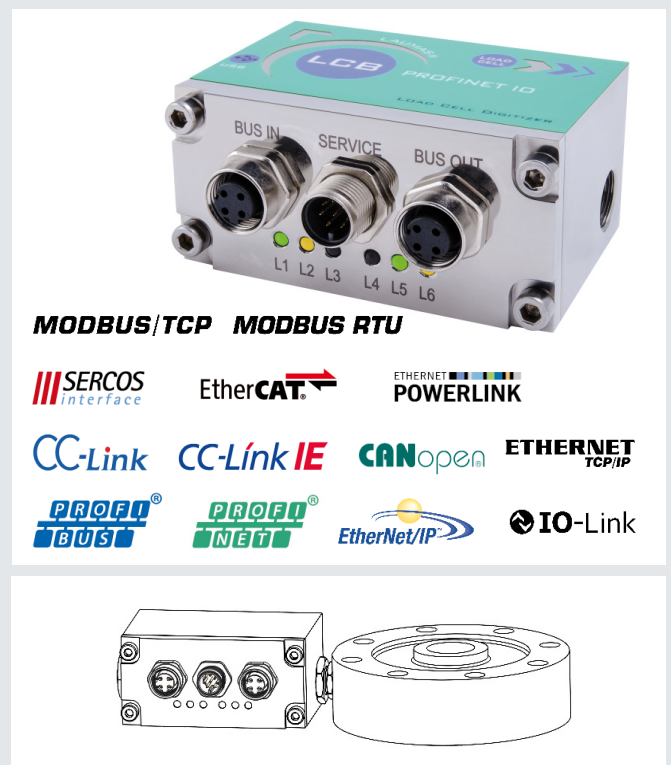
IoT INDUSTRY 4.0: designed for IoT (Internet of Things) applications, LCB converts analog load cells into digital and can be also used on existing load cells.

INTEGRATED FIELDBUS INTERFACEABLE WITH ANY PLC: conceived for assembly/wiring integral to the load cell body, it can be connected by fieldbus to PLCs of the most important international brands.

UNIVERSAL USE: it is compatible with any kind of load cell or strain gauge sensor distributed in the market, with mV/V.

SUITABLE FOR AGGRESSIVE ENVIRONMENTS: IP67 box made of AISI 316 stainless steel with special waterproof connectors, suitable to be installed even in aggressive environments.

CONFIGURATION: through the PC program included in the supply, it is possible to perform calibration, set inputs and outputs and store calibration data. PC connection via micro-usb port.



Production of load cells on CUSTOMER'S REQUEST

LAUMAS designs and manufactures "CUSTOM" load cells to offer the best solutions to customer needs.

Customizations are designed to solve specific problems or meet particular needs of applications in special conditions.

- Pre-amplified load cells
- Biaxial and triaxial
- Two strain gauges Wheatstone bridges
- Torque detection
- Special cables high / low temperature with non-standard thermal compensation



LOAD CELLS

DIGITAL

2

SINGLE POINT

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BENDING BEAM

5

SHEAR BEAM

6

DOUBLE SHEAR BEAM

7

COMPRESSION-LOW PROFILE

7

COMPRESSION / TENSION

8

TENSION (COMPRESSION)

8

TENSION

8

COLUMN

9

PIN

9

FOR FOOT BRAKE

9

ANCHOR

9

WIRE ROPE MEASURING

9

MOUNTING KITS FOR LOAD CELLS

for SINGLE POINT load cells

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for BENDING BEAM load cells

10

for SHEAR BEAM load cells

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for DOUBLE SHEAR BEAM load cells

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for COMPRESSION-LOW PROFILE load cells

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for COLUMN load cells

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COMPLEMENTARY ACCESSORIES FOR LOAD CELLS


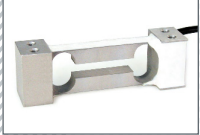






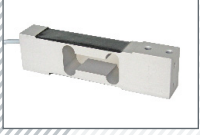












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LEVEL MEASUREMENTS - FALSE CELLS

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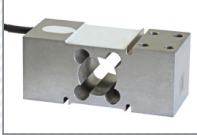
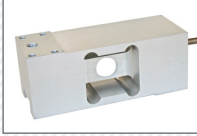


LOAD CELLS












For all models on request:   **EAC Ex** II 1GD (zone 0-1-2-20-21-22) - **EAC**

| | CAPACITY kg | PLATFORM | MATERIAL PROTECTION RATING | COMBINED ERROR RATED OUTPUT | OIML R60 CERTIFICATION | OPTIONS ON REQUEST | KIT |
|--|---|----------------------------------|---|---|---|--|--------------------|
| SINGLE POINT | | | | | | | |
|  | AF 5, 15, 50 | 150 x 150 mm | Special steel IP65 | $\leq \pm 0.05\%$ 3 mV/V $\pm 5\%$ | - | - | - |
|  | AS 0.25, 0.5, 1 | 200 x 200 mm | Aluminum alloy IP65 | $\leq \pm 0.03\%$ 1-2 mV/V $\pm 15\%$ | - | - | - |
|  | ALL 3, 5, 10, 15, 20, 30, 50 | 250 x 350 mm | Aluminum alloy IP65 | $\leq \pm 0.02\%$ (0.017% C4; 0.014% C5) 2 mV/V $\pm 10\%$ |  |   | page 14 |
|  | PRC 6, 15, 30, 50 | 350 x 350 mm | AISI 420 stainless steel IP67 | $\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$ | - | - | page 14 |
|  | AU 3, 6, 15 30, 50 | 250 x 400 mm 400 x 600 mm | Aluminum alloy IP65 | $\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$ | - | - | - |
|  | AZL 10, 15, 20, 30, 50, 100 | 400 x 400 mm | Aluminum alloy IP65 | $\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 10\%$ |  |  for capacities: R60 C4 15, 20, 30, 50 kg | page 10 page 14 |
|  | AZLI 10, 20, 50 | 400 x 400 mm | 17-4 PH stainless steel | $\leq \pm 0.02\%$ (0.017% C4) |  |  for capacities: R60 C4 10, 20, 50 kg | page 10 |
|  | 100, 200, 300, 500 | 800 x 800 mm | IP68 | 2 mV/V $\pm 10\%$ | | | |
|  | AZS 10, 30, 50, 100, 200 | 400 x 400 mm | AISI 420 stainless steel IP67 | $\leq \pm 0.03\%$ 2 mV/V $\pm 10\%$ | - | - | page 10 page 14 |
|  | PTC 30, 50, 75, 100, 150 | 400 x 400 mm | AISI 420 stainless steel IP67 | $\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$ | - | - | - |
|  | AM 60, 100, 150, 200, 300 | 400 x 400 mm | Aluminum alloy IP65 | $\leq \pm 0.02\%$ (0.017% C4; 0.014% C5) 2 mV/V $\pm 5\%$ |  |   Stainless steel + rubber waterproof kit | page 10 page 14 |

LOAD CELLS





















For all models on request:    II 1GD (zone 0-1-2-20-21-22) - 

| | CAPACITY kg | PLATFORM | MATERIAL PROTECTION RATING | COMBINED ERROR RATED OUTPUT | OIML R60 CERTIFICATION | OPTIONS ON REQUEST | KIT |
|--|-------------|-----------------------------------|----------------------------------|---|---|---|---------|
| SINGLE POINT | | | | | | | |
|  | APL | 50, 100, 150, 200, 300, 500 | 600 x 600 mm | Aluminum alloy IP65 | $\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 10\%$ |   for capacities: 150, 200, 300, 500 kg Stainless steel + rubber waterproof kit | page 14 |
|  | PEC | 75, 150, 300, 500 | 600 x 600 mm | AISI 420 stainless steel IP67 | $\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$ | - | page 14 |
|  | AR | 500, 1000 | 800 x 800 mm | Aluminum alloy IP65 | $\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$ | - | - |
|  | ATL | 1000, 2000 | 1200 x 1200 mm | Aluminum alloy IP65 | $\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$ |  | - |

| | CAPACITY kg | MATERIAL PROTECTION RATING | COMBINED ERROR RATED OUTPUT | OIML R60 CERTIFICATION | OPTIONS ON REQUEST | KIT |
|--|-------------|----------------------------------|---|--|--|-------------------------------|
| BENDING BEAM | | | | | | |
|  | FCK | 5, 10 | 17-4 PH stainless steel IP68 | $\leq \pm 0.02\%$ 2 mV/V $\pm 1\%$ | - | page 10 page 13 page 14 |
|  | FCOL | 20, 50, 100, 200, 350, 500 | 17-4 PH stainless steel IP68 | $\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 1\%$ |    for capacities from 50 to 500 kg | page 10 page 13 page 14 |
|  | FCAX | 30, 50, 75, 150, 300, 500 | AISI 420 stainless steel IP68 | $\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$ | - | page 10 page 13 page 14 |
|  | FCAL | 50, 75, 150, 300 | 17-4 PH stainless steel IP68 | $\leq \pm 0.017\%$ 2 mV/V $\pm 0.1\%$ |  | page 10 page 13 page 14 |
|  | FTP | 75, 150, 300 | AISI 420 stainless steel IP67 | $\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$ |  | page 10 page 11 page 13 |
|  | FTK | 75, 150, 300 | Special steel IP67 | $\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$ | - | page 10 page 11 page 13 |












LOAD CELLS

For all models on request:    II 1GD (zone 0-1-2-20-21-22) - 

| | CAPACITY kg | MATERIAL PROTECTION RATING | COMBINED ERROR RATED OUTPUT | OIML R60 CERTIFICATION | OPTIONS ON REQUEST | KIT |
|--|--|---|--|---|---|-------------------------------|
| SHEAR BEAM | | | | | | |
|  | FTL 300, 500, 1000, 2000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.017\%$ 2 mV/V $\pm 0.1\%$ |  | - | page 10 page 11 page 13 |
|  | FTK 500, 1000, 2000, 3000, 5000 | Special steel IP68 | $\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$ |  capacities from 1000 to 5000 kg | - | page 10 page 11 page 13 |
|  | FT-P 500, 1000, 2000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$ |  | IP69K: Declaration of conformity + IP69K marking protection rating | page 10 page 11 page 13 |
|  | FTKL 500, 1000, 1500, 2000, 3000, 5000 | Special steel IP67 | $\leq \pm 0.02\%$ (0.017% C4; 0.014% C5) 3 mV/V $\pm 0.4\%$ |  |    | page 10 page 11 page 13 |
|  | FTZ 500, 1000, 2000, 5000 | 17-4 PH stainless steel IP67 | $\leq \pm 0.02\%$ 3 mV/V $\pm 0.4\%$ |  | - | page 10 page 11 page 13 |
|  | FTZA 500, 1000, 2000, 5000, 7500, 10000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 0.4\%$ |  |  for capacities: 500, 1000, 2000 kg | - |
|  | FCAX 750, 1000, 1500 | AISI 420 stainless steel IP68 | $\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$ | - | - | page 10 page 13 page 14 |
|  | FTP 500, 750, 1000, 1200, 1500, 2000, 3000, 5000, 10000 | AISI 420 stainless steel IP68 | $\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$ |  capacities from 500 to 2000 kg | - | page 10 page 11 page 13 |
| Suitable for on-board vehicle weighing | | | | | | |
|  | FTH 5000, 10000 | Special steel IP68 | $\leq \pm 0.1\%$ 1 mV/V $\pm 0.5\%$ | - | - | - |

LOAD CELLS

For all models on request:   **EAC Ex** II 1GD (zone 0-1-2-20-21-22) - **EAC**





| | CAPACITY kg | MATERIAL PROTECTION RATING | COMBINED ERROR RATED OUTPUT | OIML R60 CERTIFICATION | OPTIONS ON REQUEST | KIT |
|--|-------------|--|--------------------------------------|---|--|---|
| DOUBLE SHEAR BEAM | | | | | | |
|  | DTL | 25000 | Special steel IP68 | $\leq \pm 0.02\%$ 2 mV/V $\pm 0.2\%$ |  - | page 11 page 14 |
|  | DTX | 20klb / 9 ton 30klb / 13.6 ton 40klb / 18 ton 50klb / 23 ton 60klb / 27 ton | Nickel plated alloy steel IP68 | $\leq \pm 0.023\%$ 3.0 mV/V $\pm 0.1\%$ |  - | page 11 |
| COMPRESSION-LOW PROFILE | | | | | | |
|  | CK | 200, 500, 1000, 2500 | 17-4 PH stainless steel IP67 | $\leq \pm 0.5\%$ 1 mV/V $\pm 10\%$ | EAC PRC on request | - |
|  | CLS | 1000, 2000, 5000 | AISI 420 stainless steel IP68 | $\leq \pm 0.03\%$ 2 mV/V $\pm 0.4\%$ | EAC PRC on request | page 11 page 13 |
|  | CBL | 250, 500, 1000, 2500, 5000, 7500, 10000, 12500, 15000, 30000, 50000, 100000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.03\%$ (0.02% C3) 2 mV/V $\pm 0.1\%$ |  capacities from 2500 to 10000 kg EAC PRC on request |  capacities from 2500 to 12500 kg • 10 m long cable version. • Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. • AISI 420 stainless steel version (not OIML approved). • IP69K: Declaration of conformity + IP69K marking protection rating |
|  | CBX | 15000, 30000, 50000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.035\%$ 2 mV/V $\pm 0.1\%$ | EAC PRC on request | • Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. page 12 page 14 |
|  | CBLs | 200000, 300000, 500000, 750000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.10\%$ 2 mV/V $\pm 0.1\%$ | EAC PRC on request | • Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. page 14 |

LOAD CELLS

For all models (except for CLBT) on request:



II 1GD (zone 0-1-2-20-21-22) - EAC

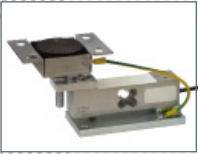
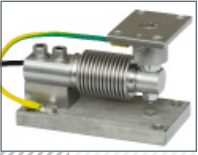





| CAPACITY kg | | MATERIAL PROTECTION RATING | COMBINED ERROR RATED OUTPUT | OIML R60 CERTIFICATION | OPTIONS ON REQUEST | KIT |
|--|--|--|---|--|---|---------|
| COMPRESSION / TENSION | | | | | | |
| CLBT | 50, 100, 500* | Aluminium alloy 17-4 PH* stainless steel IP65 | ≤ ±0.05% 2 mV/V ±10% | - | - | pag. 14 |
| CL | 500, 1000, 2000, 5000, 10000, 20000, 30000, 60000, 100000*, 150000*, 200000* | 17-4 PH stainless steel IP68 IP67* | ≤ ±0.05% 2 mV/V ±0.3% | EAC PRC on request | • Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. | - |
| CLK | 2000, 5000, 10000*, 20000* | Special steel IP67 | ≤ ±0.05% ≤ ±0.1% * 2 mV/V ±0.3% | EAC PRC on request | - | - |
| TENSION (COMPRESSION) | | | | | | |
| SA | 15, 30, 60 | Special steel IP65 | ≤ ±0.02% 2 mV/V ±10% |  OIML R60 C3 | - | page 13 |
| SL | 25, 100, 200, 300, 500, 1000, 2500 | Special steel IP67 | ≤ ±0.02% (0.017% C4) 2 mV/V ±0.2% |  OIML R60 C3 capacities from 100 to 2500 kg |  OIML R60 C4 capacities from 100 to 2500 kg | page 13 |
| Can also be used as load limiter for lifting equipment | | | | | | |
| CTOL | 50, 100, 200, 300 | AISI 420 stainless steel | ≤ ±0.03% | EAC PRC on request | - | page 13 |
| | 500, 1000, 2500, 5000 | IP67 | 2 mV/V ±0.4% | | | |
| CTL | 100, 200, 300, 500, 1000, 2500, 5000, 7500, 10000, 12500 | 17-4 PH stainless steel IP68 | ≤ ±0.02% 2 mV/V ±0.1% |  OIML R60 C3 capacities from 500 to 12500 kg EAC PRC on request | • Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. • IP69K: Declaration of conformity + IP69K marking protection rating. | page 13 |
| TENSION | | | | | | |
| Can also be used as load limiter for lifting equipment | | | | | | |
| TAL | 5000, 10000, 20000 | 17-4 PH stainless steel IP68 | ≤ ±0.03% 2 mV/V ±0.1% | - | • Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. | - |
| TBT | 30000, 40000, 50000, 60000, 100000, 250000 | 17-4 PH stainless steel IP68 | ≤ ±0.08% 1.0 mV/V ±0.1% | - | • Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. | - |

LOAD CELLS

For all models on request:   **EAC Ex** II 1GD (zone 0-1-2-20-21-22) - **EAC**

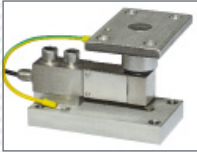
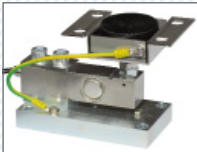




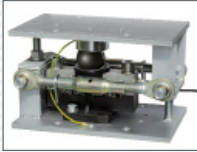



| | CAPACITY kg | MATERIAL PROTECTION RATING | COMBINED ERROR RATED OUTPUT | OIML R60 CERTIFICATION | OPTIONS ON REQUEST | KIT |
|---|--|--|--|---|--|-----------------------|
| COLUMN | | | | | | |
|  COK | 15000, 25000, 50000 | Special steel | $\leq \pm 0.02\%$ |  OIML R60 C3 | - | page 11 |
| | COK-AR 25000 anti rat cable | IP68 | 2 mV/V $\pm 0.1\%$ | EAC PAC on request | - | page 12 |
|  CO | 25000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.017\%$ 2 mV/V $\pm 0.1\%$ |  OIML R60 C4 EAC PAC on request | - | page 12 |
|  COL | 30000, 60000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.013\%$ 2 mV/V $\pm 0.1\%$ |  OIML R60 C4 EAC PAC on request | - | page 11 page 12 |
| PIN | | | | | | |
| Can also be used as load limiter for lifting equipment | | | | | | |
|  LAU | 5000, 10000, 20000 | 17-4 PH stainless steel IP67 | $\leq \pm 0.1\%$ 1 mV/V $\pm 0.1\%$ | - | <ul style="list-style-type: none"> Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. | - |
| FOR FOOT BRAKE | | | | | | |
|  LPED | 100 | Aluminum IP65 | $\leq \pm 0.08\%$ 1 mV/V $\pm 0.2\%$ | - | <ul style="list-style-type: none"> Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. | - |
| ANCHOR | | | | | | |
|  CA | 30000, 50000, 75000, 100000, 125000, 150000, 180000, 250000 | 17-4 PH stainless steel IP68 | $\leq \pm 0.1\%$ 2 mV/V $\pm 0.1\%$ | EAC PAC on request | <ul style="list-style-type: none"> Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. Two redundant strain gauges Wheatstone bridges (350 Ω) with two output cables; for dual safety systems. | page 14 |
| WIRE ROPE MEASURING | | | | | | |
| Suitable as load limiter for lifting equipment | | | | | | |
|  FUN | CAPACITY kg | ROPE \varnothing mm | MATERIAL PROTECTION RATING | COMBINED ERROR RATED OUTPUT | OIML R60 CERTIFICATION | OPTIONS ON REQUEST |
| | 2000 4000 10000 20000 40000 | 6-14 10-18 16-26 24-36 24-36 | Special steel IP67 | Switching accuracy $\pm 2\%$ on Full Scale 3 mV/V $\pm 0.1\%$ | - | - |

MOUNTING KITS FOR LOAD CELLS

| MODEL | APPLICATION RANGE | DESCRIPTION | FOR LOAD CELLS |
|---|--------------------|--|--|
| for SINGLE POINT load cells | | | |
|  T8-AZLI T8-AZL T8-AZS T8-AM | from 10 to 300 kg | Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); lower plate and block in galvanized steel; constraint against lateral forces and anti-tilt by self-centring galvanized steel joint foot; adjustable height. | AZL, AZLI, AZS, AM |
| for BENDING BEAM load cells | | | |
|  TFC-PV TFC-PV10 | from 5 to 500 kg | Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); lower plate and block in AISI 304 stainless steel; constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel; adjustable height. | FCK, FCOL |
|  TFC-GP | from 5 to 500 kg | Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel. | FCK, FCOL |
|  TFC-FSB | from 5 to 200 kg | Mounting kit provided with compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel. | FCK, FCOL |
|  TF-PV TF-PVZ | from 30 to 500 kg | Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); lower plate and block in AISI 304 stainless steel; constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel (TF-PV, TF-PV-2000) or in galvanized steel (TF-PVZ); limited height adjustment. | FCAL FCAX: 30 ÷ 500 kg B |
| TF-PV-2000 | from 30 to 1000 kg | | FCAL FCAX: 30 ÷ 500 kg B FCAX: 750 ÷ 1000 kg S |
|  TF-FSB | from 30 to 500 kg | Mounting kit provided with compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel. | FCAL FCAX: 30 ÷ 500 kg B |
|  TF-AST | from 30 to 500 kg | Mounting kit provided with tension ball joint in aluminum alloy; lower plate and block in AISI 304 stainless steel; galvanized screws. | FCAL FCAX: 30 ÷ 500 kg B |
|  TF-GP | from 30 to 500 kg | Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel. | FCAL FCAX: 30 ÷ 500 kg B |
| TF-GP-2000 | from 30 to 1500 kg | | FCAL FCAX: 30 ÷ 500 kg B FCAX: 750 ÷ 1500 kg S |
|  T12-FCA-GP | from 30 to 1500 kg | Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate, block and screws in galvanized steel. | FCAL FCAX: 30 ÷ 500 kg B FCAX: 750 ÷ 1500 kg S |
|  T12-FTA-GP | from 75 to 2000 kg | Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate, block and screws in galvanized steel. | FTL, FTKL, FT-P, FTZ FTK: 75 ÷ 300 kg B FTK: 500 ÷ 2000 kg S FTP: 75 ÷ 300 kg B FTP: 500 ÷ 2000 kg S |

B = bending beam load cell; S = shear beam load cell

MOUNTING KITS FOR LOAD CELLS

| MODEL | APPLICATION RANGE | DESCRIPTION | FOR LOAD CELLS |
|--|---------------------------------------|--|--|
| for SHEAR BEAM load cells | | | |
|  TF500 | from 75 to 500 kg | Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber. TF500: lower plate, block and screws in AISI 304 stainless steel TF2000: lower plate, block and screws in AISI 304 stainless steel TF2000Z: lower plate, block and screws in galvanized steel | FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500 kg FTP: 75÷300 kg FTP: 500 kg B S B S |
|  TF2000 TF2000Z | from 75 to 2000 kg | | FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500÷2000 kg FTP: 75÷300 kg FTP: 500÷2000 kg B S B S |
|  PV PVZ | from 75 to 2000 kg | Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); constraint against lateral forces and anti-tilt by self-centring joint foot; adjustable height. PV: lower plate, block and foot in stainless steel PVZ: lower plate, block and foot in galvanized steel | FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500÷2000 kg FTP: 75÷300 kg FTP: 500÷2000 kg B S B S |
|  TF-PS 2000 | from 75 to 2000 kg | Galvanized steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; constraint against lateral forces and anti-tilt by ball joint; adjustable height. | FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500÷2000 kg FTP: 75÷300 kg FTP: 500÷2000 kg B S B S |
|  PV80 PV80Z | from 3000 to 5000 kg | Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV80); constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel; adjustable height. PV80: lower plate and block in AISI 304 stainless steel PV80Z: lower plate and block in galvanized steel | FTP: 3000÷5000 kg FTZ: 5000 kg S FTK: 3000÷5000 kg S |
|  PS PS10T | from 3000 to 5000 kg 10000 kg | Hot worked galvanized steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; constraint against lateral forces and anti-tilt by ball joint; adjustable height. | FTP: 3000÷5000 kg FTK: 3000÷5000 kg FTZ: 5000 kg S S FTP: 10000 kg S |
| for DOUBLE SHEAR BEAM load cells | | | |
|  VCOKDTL | from 15000 to 50000 kg | Galvanized steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts. | DTL COL COK |
|  VDTX | from 30 klb/13.6 ton to 60 klb/27 ton | Nickel-plated steel alloy mounting kit for rigid attachment of the load cell. It prevents horizontal movement. | DTX: 30÷60 klb |
| for COMPRESSION-LOW PROFILE load cells | | | |
|  PVCLS | from 1000 to 2000 kg | Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel; adjustable height. | CLS: 1000÷2000 kg |
|  PV80CLS | 5000 kg | Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV80); constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel; adjustable height. | CLS: 5000 kg |

MOUNTING KITS FOR LOAD CELLS

| MODEL | APPLICATION RANGE | DESCRIPTION | FOR LOAD CELLS |
|-------|-------------------|-------------|----------------|
|-------|-------------------|-------------|----------------|

for COMPRESSION-LOW PROFILE load cells



| | | | |
|--------------|---------|--|--------------|
| PSCLS | 5000 kg | Hot worked galvanized steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; constraint against lateral forces and anti-tilt by ball joint; adjustable height. | CLS: 5000 kg |
|--------------|---------|--|--------------|



| | | | |
|--------------------------|----------------------|---|--------------------------------------|
| V10000 V10275 | from 250 to 15000 kg | AISI 304 stainless steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; laminas against lateral forces, anti-tilt and jack functions. | CBL: 250 ÷ 12500 kg CBX: 15000 kg |
|--------------------------|----------------------|---|--------------------------------------|



| | | | |
|----------------|-------------------------|---|--|
| V15000 | from 15000 to 30000 kg | AISI 304 stainless steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; laminas against lateral forces, anti-tilt and jack functions. | CBL: 15000 kg *CBX: 30000 kg |
| V30000 | from 30000 to 50000 kg | | CBL: 30000 kg *CBX: 50000 kg |
| V100000 | from 50000 to 100000 kg | | CBL: 50000 ÷ 100000 kg *CBX: 50000 kg |



| | | | |
|---------------------------------|----------------------|--|--------------------------------------|
| P10000 + BASESUP | from 250 to 15000 kg | Lower plate and turned upper base in AISI 304 stainless steel. | CBL: 250 ÷ 12500 kg CBX: 15000 kg |
|---------------------------------|----------------------|--|--------------------------------------|



| | | | |
|----------------------------------|----------------------|---|--------------------------------------|
| BASEINF + BASESUP | from 250 to 15000 kg | Turned upper and lower bases in AISI 304 stainless steel. | CBL: 250 ÷ 12500 kg CBX: 15000 kg |
|----------------------------------|----------------------|---|--------------------------------------|



| | | | |
|----------------------------------|----------------------|--|--------------------------------------|
| PIASTRA + BASEINF | from 250 to 15000 kg | Lower plate and turned lower base in AISI 304 stainless steel. | CBL: 250 ÷ 12500 kg CBX: 15000 kg |
|----------------------------------|----------------------|--|--------------------------------------|

for COLUMN load cells



| | | | |
|----------------|------------------------|--|---------------|
| KIT_COK | from 15000 to 50000 kg | Mounting kit composed by protective rubber seal, 2 bases (upper and lower) and 3 self-centring cylindrical plates. KIT_COK: special steel KIT_COL: AISI 420 hardened steel | COK COK-AR |
| KIT_COL | from 30000 to 60000 kg | | COL |



| | | | |
|--------------------------|----------|--|----|
| KIT_CO PIA_CO | 25000 kg | Kit composed by 2 stainless steel bases. Kit composed by 2 special steel plates (upper and lower) for KIT_CO bases. | CO |
|--------------------------|----------|--|----|

COMPLEMENTARY ACCESSORIES FOR LOAD CELLS

| MODEL | DESCRIPTION | FOR LOAD CELLS |
|-------|-------------|----------------|
|-------|-------------|----------------|

Adjustable upper plate



| | | |
|-------|---|--------------------------------|
| PPV | AISI 304 stainless steel plates for self-centring joint foot. | FTK, FTKL, FTL, FTP, FT-P, FTZ |
| PPV80 | | FTK, FTP, FTZ |

Self-centring joint foot



| | | | | |
|------------------|---------------|-------------|------------------|--|
| PIEDINOSB2M8 | M8 x 1.25 mm | max 500 kg | stainless steel | FCAL, FCAX, FCOL, FTK, FTKL, FTL, FTP, FT-P, FTZ |
| PIEDINOSB2M10 | M10 x 1.50 mm | max 500 kg | stainless steel | |
| PIEDINOSB2INOX | M12 x 1.75 mm | max 2000 kg | stainless steel | |
| PIEDINOSB2M20 | M20 x 2.50 mm | max 5000 kg | stainless steel | |
| PIEDINOSB2ZNCM8 | M8 x 1.25 mm | max 500 kg | galvanized steel | |
| PIEDINOSB2ZNCM10 | M10 x 1.50 mm | max 500 kg | galvanized steel | |
| PIEDINOSB2ZNC | M12 x 1.75 mm | max 2000 kg | galvanized steel | |
| PIEDINOSB2ZNCM20 | M20 x 2.50 mm | max 5000 kg | galvanized steel | |

Accessory with ball



| | | | |
|------------|---------------|---|---|
| ACCSFERM12 | M12 x 1.75 mm | stainless steel / max static load 2000 kg | FTKL, FTL, FTP, FT-P, FTK, FTZ, CLS |
| ACCSFERM20 | M20 x 2.50 mm | stainless steel / max static load 5000 kg | FTK, FTKL, FTP 3000-5000 kg, FTZ 5000 kg, CLS 5000 kg |

Compression joint



| | | |
|---------|---|--|
| ANTIV35 | Stainless steel + rubber joints, to compensate for misalignment of the support plates: Ø25x63 mm; M8x1.25 mm; max static load 500 kg Ø30x75 mm; M12x1.75 mm; max static load 2000 kg Ø30x79 mm; M12x1.75 mm; max static load 2000 kg | FCOL, FCK |
| ANTIV40 | | FTKL, FTL, FCAL, FCAX, FTP, FT-P, FTK, FTZ CLS |
| ANTIV45 | | FCAL, FCAX |

Spherical plain thrust bearings to compensate for misalignment

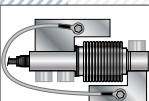
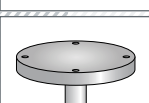




| | | |
|----------------|--|--|
| SNODOGE12AX | Steel joint. | CLS, FTK, FTKL, FTL, FTP, FT-P, FTZ |
| SNODOGE20AXKIT | Kit composed by steel joint + galvanized bolt (20x80 mm) and washer (22x60 mm). | CLS 5000 kg, FTK 3000-5000 kg, FTKL, FTZ 5000 kg |
| SNODOGE25AXKIT | Kit composed by steel joint + galvanized bolt (24x100 mm) and washer (26x72 mm). | FTP 10000 kg |

Ball-and-socket joint


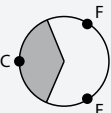
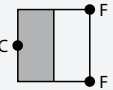
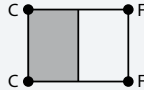


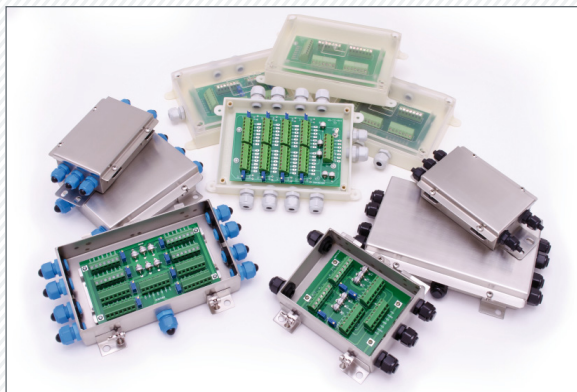
| MODEL | DESCRIPTION | FOR LOAD CELLS | MODEL | DESCRIPTION | FOR LOAD CELLS |
|-------|---------------|----------------|-------|---------------|----------------|
| EM6 | M6 x 1.00 mm | SA | EM20 | M20 x 1.50 mm | SL, CTOL, CTL |
| EM8 | M8 x 1.25 mm | SL | EM25 | M24 x 2.00 mm | CTOL, CTL |
| EM10 | M10 x 1.50 mm | SL | EM30 | M30 x 2.00 mm | CTL |
| EM12 | M12 x 1.75 mm | SL, CTOL, CTL | EM35 | M36 x 3.00 mm | CTL |
| EM16 | M16 x 2.00 mm | CTOL, CTL | | | |

| MODEL / DESCRIPTION | FOR LOAD CELLS |
|---|-------------------------|
|  TENDITORE300 Galvanized steel stay rod with dual ball-and-socket joints suitable for static applications, to be placed horizontally. Working load: 2500 kg Breaking load: 10000 kg | - |
|  PTEND Galvanized steel anchor plate for TENDITORE300. | - |
|  STAFFEALL Pair of tension stainless steel brackets (max 50 kg). | ALL |
|  IP68 -AM/APL Stainless steel + rubber waterproof kit. | AM, APL |
|  BLOCPRC Stainless steel drawn block 31x30 mm; tickness 10 mm | AZS, PRC |
|  BLOCT8Z Galvanized steel drawn block 36x35 mm; tickness 10 mm | AZL, AM |
|  BLOCAPL Stainless steel drawn block 60x43 mm; tickness 5 mm | APL |
|  BLOCEC Stainless steel drawn block 50x32.5 mm; tickness 5 mm | PEC |
|  STAFFE -FC/FCAX Pair of tension stainless steel brackets: max static load: 100 kg max static load: 300 kg | FCK, FCOL FCAX, FCAL |
|  PIATTODTL Galvanized steel plate 210x80 mm; tickness 12 mm | DTL |
|  BINFCLBT Lower base for tension operation. | CLBT |

| MODEL / DESCRIPTION | FOR LOAD CELLS |
|--|---|
|  BASESUPFIL Threaded upper base in AISI 304 stainless steel for compression load cells. | CBL CBX |
|  | |
| BINF100 Ø110x22 mm BINF126 Ø140x23 mm BINF165 Ø180x23 mm | CBL: 15000 kg CBX: 30000 kg CBL: 30000 kg CBX: 50000 kg CBL: 50000 ÷ 100000 kg |
| AISI 304 stainless steel adapter for mounting kits: V15000, V30000, V100000. | |
| ADAT100CBX15T Ø100x6 mm ADAT126CBX30T Ø126x9 mm ADAT165CBX50T Ø165x29 mm | CBX: 15000 kg CBX: 30000 kg CBX: 50000 kg |
| Upper plate BOTTONE200 Ø119 mm; tickness 60 mm BOTTONE Ø198 mm; tickness 60 mm BOTTONE750 Ø198 mm; tickness 89 mm | CBLS: 200000 kg CBLS: 300000 kg CBLS: 500000 ÷ 750000 kg |
| Galvanized steel upper / lower plate for load distribution. | |
| PIAS50CASUP Ø98x25 mm PIAS75CASUP Ø98x27.5 mm PIAS120CASUP Ø150x27.5 mm PIAS165CASUP Ø199x30 mm PIAS225CASUP Ø250x30 mm PIAS50CAINF Ø170x25 mm PIAS75CAINF Ø170x25 mm PIAS120CAINF Ø240x30 mm PIAS165CAINF Ø290x30 mm PIAS225CAINF Ø330x35 mm | CA |

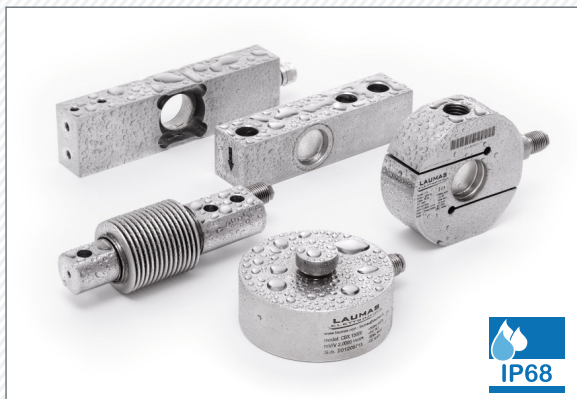
LEVEL MEASUREMENTS - FALSE CELLS

| CAPACITY kg | MATERIAL | DESCRIPTION |
|--|------------------|---|
|  ML CBL250-10000 - CBX15000 CBL15000 - CBX3000 CBL30000 - CBX5000 CBL50000-100000 | Stainless steel | "False cells" (ML) are structural mechanical steel elements that 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. False cells feature similar dimensions to the load cells and can be mounted on the same accessories as the latter. |
| FCAL-FCAX FCK-FCOL FTK75-2000 FTP75-2000 FTL300-2000 FTZ500-2000 FTK3000-5000 FTP3000-5000 | Galvanized steel | - Structure with 3-point support = 1 load cell + 2 false cells - Structure with 4-point support = 2 load cells + 2 false cells  Signal mV x 3  Signal mV x 2  Signal mV x 2 C = SUPPORT FOOT WITH LOAD CELL F = SUPPORT FOOT WITH FALSE CELL |



JUNCTION BOXES

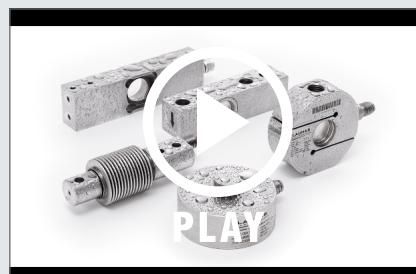
Stainless steel or ABS junction boxes, including equalization boards or parallel connection boards, to connect from 1 to 4 or from 5 to 8 load cells.
IP67 protection rating.
Lightning and electrical shock protection versions.
ATEX II 1GD certified versions.



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Watch the presentation video of each product.

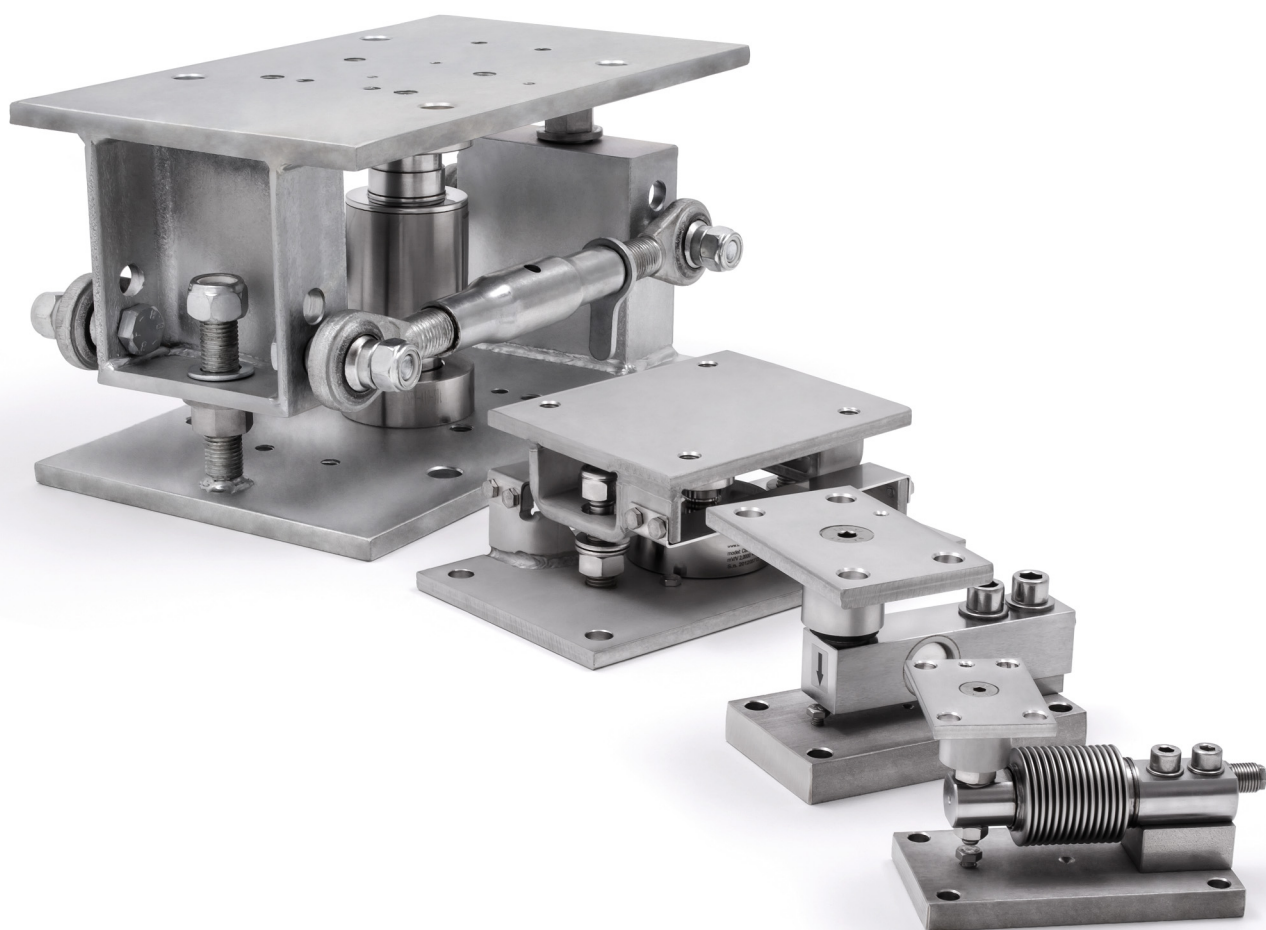


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