

LOAD CONTROL SYSTEM MOD. DIGITAL LIFTSENTRY

LOAD CONTROL FOR LIFTS • HOIST SYSTEMS • VEHICLES



The load control system mod. DIGITAL LIFTSENTRY allows to stop the lift, hoists (cranes, aerial platforms, winches etc.), vehicles (fork lifts, trucks, agriculture vehicles, graders etc.) operation when too much weight is lifted and is including a digital electronics mod. 699 connected to a transducer that measures the load.

TRANSDUCERS:

Strain link mod. 942:

Mod. 942 measures the load by measuring the flexion strain on the steel machine frame that is proportional to the lifted load (= passengers inside a lift cabin).

Mod. 942 is patented because of its innovative manufacturing process that allows good prices.

Applications: on lift cabin steel frame, on lift ropes fixing beams and plates, on winch and crane frames, vehicle chassis etc.

Load cells mod. LT from 0 to 0,2-0,5-1 tons FS.

Mod. LT measures directly tension and compression loads.

DS Europe produces many kind of load cells: see www.dseurope.com.

Applications: below the cabin floor and the rope fixing beams or plates and below the motor bed frame.

Pressure transducers: mod. LP662 from 0 to 2-5-10-20-50-100-200-400 bar.

Pressure transducer measures the load applied onto the lift frame by measuring the hydraulic pressure proportional to the applied load.

Applications: hydraulic lifts, hydraulic actuators control, aerial platform tilt and overload control.

DIGITAL ELECTRONICS MOD. 699:

Electronics mod. 699 can be sold in a metal housing or as an electronic printed circuit with 4 fixing holes.

- Easy to install:

Mod. 699 is easy to install because of its user's friendly calibration menu and manual, its 4 push buttons and its 24 bit A/D converter allow to calibrate it even with a small specimen weight compared to the maximum load capability.

- Easy to service:

Error codes help the installer to easily solve problems.

- Alarm levels:

The two alarm levels auto calibrate themselves with relationship to the maximum load capability of the lift.

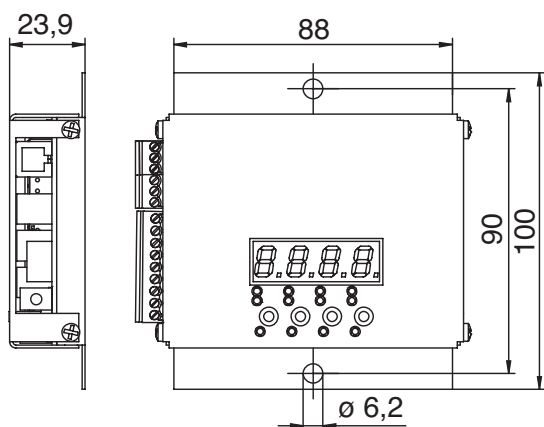
- Reliability:

Mod. 699 has an auto-zeroing function that grants long term stability (i.e. in case of panoramic lift with sunlight heating).

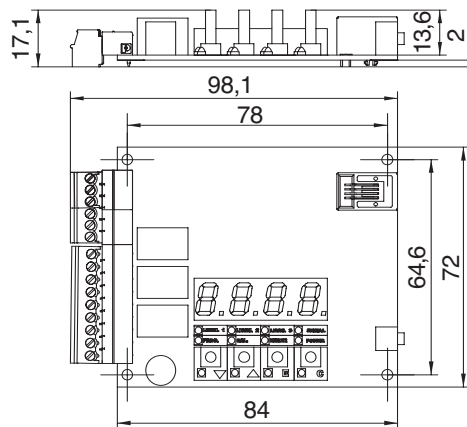
OPTIONS:

- Three alarm levels: the third alarm allow a cabin booking and GSM distress message handling.
- Analog inputs: two transducers can be connected allowing to measure load on big surface platforms reducing the load positioning errors.
- Optically insulated contacts: two are available to activate additional software functions (i.e.: towed chain load compensation).
- Digital data transmission: RS485, RS422 (DSE net and Modbus protocols) and CAN Open (DSP406 profile) allow to easily set and calibrate the LIFTSENTRY from the push button board or from the main electrical board.
DS Europe can apply customer proprietary protocols.
- Buzzer for sound signaling.

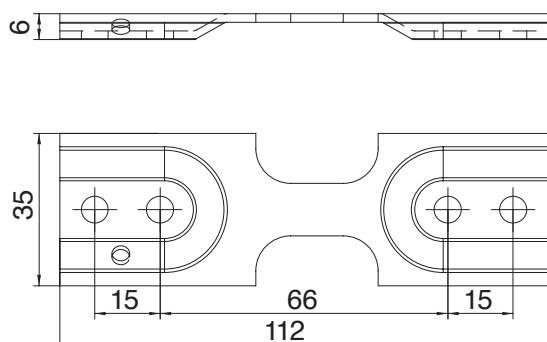
699 electronics with case



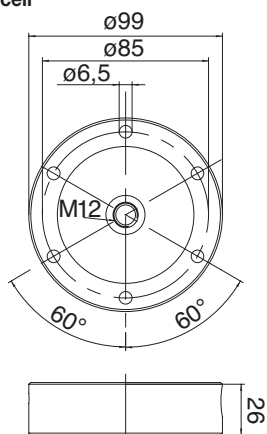
699 electronics without case



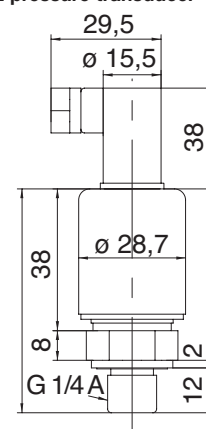
942 strain link



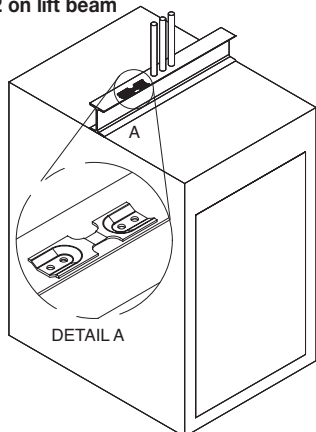
LT load cell



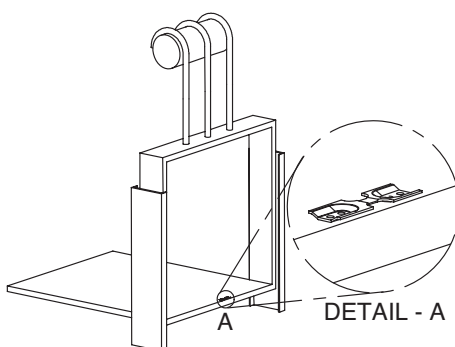
LP 662 pressure transducer



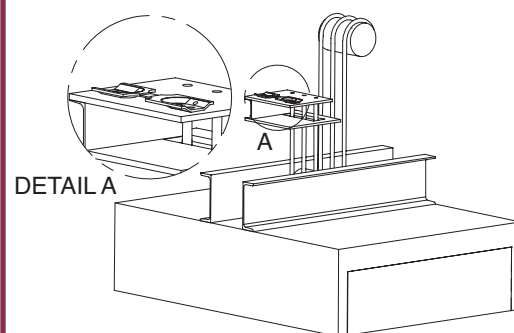
942 on lift beam



942 on lift cabin



942 on fixing plate

**How to order:**

A1 = mod. 699 with case.

A2 = mod. 699 without case.

B1 = 2 alarm levels

B2 = 3 alarm levels.

C1 = 942 strain link.

C2 = LT1 load cell.

C3 = LP662 pressure transducer.

D = measuring ranges LT1 = 0,2-0,5-1 tons

LP662 = 2-5-10-20-50-100-200-400bar FS

Examples: 699-A1-B1-C1 (default version for lifts) or 699-A1-B2-C2-0,2 tons.

Options available under request: 2 input signals, 2 contacts, RS485/RS422/CAN outputs and buzzer.

699 - A - B - C - D

Specifications and prices may change without notice.

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