S2Tech Srl
Smart Solutions

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ISO9001:2015 – Cert. n.6687

Form for Lift measurement system:

Scope of this form is to gather technical information of the Lift application of interest, where a load measurement device is to be installed to control and limit the weight, to be in position to suggest and configure the most appropriate solution for application's needs. Complete information on S2Tech products for Lift applications are available, as instruction manuals, at https://s2tech.it/699plus/

NOTE: in case your lift has *different possible configurations*, please compile one for each configuration.

Please complete the sections below:

GENERAL FEATURES OF THE LIFT

1) Nominal Lift capacity (Q): [ ] (Kg)
2) Cabin Weight (*cabin +cabin support + door drive weight* =P): [ ] (Kg)
3) Roping factor: [ ] (1:1, 1:2, 1:4, *as per Your lift configuration*)
4) Compensation Chain:
   - ☐ Yes: [ ] (Kg / mt)
   - ☐ No
5) *Number of Suspension Ropes*: [ ]
6) *Rope diameter* [ ] mm, Type [ ]
   Belt thickness [ ] mm and width [ ] mm, Type [ ]
   Manufacturer
   - ☐ Metal type, round
   - ☐ PUR coated, round
   - ☐ Flat rope / belt
7) *Spacing between suspension ropes*: [ ] mm (between axis)
8) *Pulley groove spacing:* [ ] mm
9) *Rope fixation point arrangement (hole positioning for rope's ends)*:
   a. Photo / CAD drawing
   b. 3D model
10) Sensor's connection cable length: [ ] mt (10 mt suggested as maximum length, without junction box) – Standard lengths: 0,5 mt RJ; 2 mt RJ; 5 mt RJ; 10 mt RJ

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STRAIN LINK

11) Is free Finite Element Analysis of lift structure needed, for 942 / 962 Strain Link sensor positioning on Your lift? ☐ Yes ☐ No

a. *Cabin Support frame*: 3D model (942/962 Strain Link)

b. *Motor bedframe*: 3D model (942/962 Strain Link)

c. *Rope end fixation point* (cabin side): 3D model / drawing (942/962 Strain Link or BC load cells)

12) Is *Strain Link* to be installed using fixation holes designed for other deformation load sensors?

☐ Yes ☐ No

Provide hole pattern with 2D detailed drawing, so that S2Tech can match it for its products

13) *Pulley's support frame*: 3D model / drawing (942/962 Strain Link or BC load cells)

14) Space constraints to be considered? ☐

LOAD WEIGHING CONTROLLER 699

15) Power Supply: ☐ V (AC / DC)

16) Signal for door status is available? (Open / Closed, for Chain compensation function, if needed)
☐ Yes ☐ No

17) Connection to Load Sensors:

☐ RJ plug

☐ Removable Screw Terminal

☐ 8 x Minifit connection for single load evaluation (SRf / TSP sensors)

☐ 8 x Minifit connection for multiple individual load evaluation (SRf single rope sensors / TSP)

☐ 16 x Minifit connection for multiple individual load evaluation (SRf single rope sensors / TSP)

18) Analog Output signal needed?

☐ 0-10 V ☐ 4-20 mA

☐ 0-5 V ☐ Frequency

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19) Digital Output signal needed?

- ☐ CANopen HomeLift CiA 417 Profile
- ☐ CANopen CiA 406 Profile (encoder type)
- ☐ RS485 with Modbus protocol
- ☐ Proprietary: Details needed on Hardware and Protocol used by Customer

20) Integrated accelerometer? ☐ Yes ☐ No

21) Integrated inclinometer? ☐ Yes ☐ No

22) Number of alarm levels needed (Normally Open / Closed): 1, 2 ,3, 4? ☐

23) Display and input pushbuttons needed? ☐ Yes ☐ No

24) USB connection for Bluetooth dongle? ☐ Yes ☐ No

25) Calibration method:

- ☐ With known weight (MANU)
- ☐ Recalling stored characterization profiles for SR and TSP sensors (AUTO)
- ☐ Optional input for sensor of cabin position on shaft:
  - ☐ Encoder style
  - ☐ SSI
  - ☐ RS422
  - ☐ Other: ☐

Sensor Manufacturer: ☐

Sensor Model: ☐

26) Connection to external bi-axial inclinometer ES270, for marine applications?

☐ Yes ☐ No

27) Environmental protection:

- ☐ None, standard shaft environment
- ☐ IP65

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SINGLE ROPE SENSOR (S)

28) General information:

i. Slack Rope measurement needed? ☐ Yes ☐ No

ii. Difference in rope tensioning evaluation/control needed? ☐ Yes ☐ No

iii. Rope tensioning Equalization function required? ☐ Yes ☐ No

UNDERFLOOR SENSOR (TSP)

29) General information:

iv. Dimensions of the cabin's floor (Width / Depth): W= ☐ / D= ☐ (mt)

v. Number of supporting floor points: ☐

vi. Drawing of the cabin available (CAD / PDF)? ☐ Yes ☐ No

vii. Number of measurements supporting point of interest: ☐

viii. Number of *dummy* supporting points: ☐

30) *TSP underfloor sensor*:

☐ Single sensor, M6 threaded holes (70 mm axial spacing) to install it on lift frame: 28 mm height

☐ Additional interface plate for M12 screws (122 to 138 mm axial spacing) to install it on lift frame, add + 2 mm in height

☐ Additional damper pad, for top connection, add + 3 mm in height

ROPE TENSIONING EQUALIZATION SYSTEM (EQF)

31) Sensor:

☐ EQF 6,5 for plastic coated ropes

☐ EQF 8.1 for plastic coated ropes

☐ EQF *Evo* for rope diameters 6 to 12 mm

☐ EQF *Evo* HL for rope diameters 12 to 16 mm (high load applications)

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32) HUB connection:

☐ To Windows ™ based notebook / tablet

☐ To Android or iOS devices (tablets / smartphones) through Bluetooth option

Send to S2Tech