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**LifTrack
Monitoring
System**

esse-ti LifTrack Monitoring System Owner's Manual

Contents

esse-ti LifTrack Monitoring System

Specifications

- 2 sensors (accelerometer and barometer)
- 4 digital inputs
- 1 analogue input
- 1 relay output (NO/NC, bistable)

Product Usage Instructions

Installation

1. Fix LifTrack to the car top.
2. Connect LifTrack to the Esse-ti alarm system or gateway via CAN-bus.
3. Move the car to the lowest floor and place the Reed sensor on the roof; fix the metal plate to the wall and center the magnetic disk.
4. Connect the Reed sensor to one of LifTrack's inputs (e.g., IN1).
5. For the initial self-learning procedure, connect a lift motion signal to LifTrack (e.g., to input IN2).
6. Power on LifTrack.

Configuration

LifTrack can be configured:

- Remotely via e-stant web application (data connection provided by the Esse-ti alarm system or gateway).
- Locally via micro USB port and e-stand software.

FAQs

- **Q: What kind of information does LifTrack provide?**

- A: LifTrack provides information such as car position on the floor, journeys made, number of stops on each floor, average and instantaneous speed, distance covered, time of journey, temperature, pressure, and more.

- **Q: How can I carry out active maintenance using LifTrack?**
    - A: The integrated relay and relays of the Esse-ti alarm system or gateway allow active maintenance to be carried out remotely or locally according to pre-programmed logic.

General description

LifTrack is a real-time monitoring system for lift systems Equipped with predictive analysis functions, it provides the information needed for routine and preventive maintenance, regardless of the brand of lift

- **LifTrack has:**
    - 2 sensors (accelerometer and barometer)
    - 4 digital inputs
    - 1 analogue input
    - 1 relay output (NO/NC, bistable)

LifTrack (installed integral with the car) processes the data collected from the sensors and inputs and forwards it, via CAN-bus connection, to the alarm system or the Esse-ti gateway already present on the installation. Via data connection, the information is then sent to an Esse-ti server and is made available in the e-stant web application

- **Main information provided by the sensors:**
   - car position on the floor
    - journeys made
    - number of stops on each floor
    - number of reversals
    - average and instantaneous speed
    - average and instantaneous acceleration
    - distance covered
    - time of journey
    - temperature
    - pressure

Examples of information that can be detected by connecting the inputs to the control panel or external sensor:

- door status
- lighting efficiency (using light sensors)
- presence of people inside the car (using movement sensors)
- presence of water in the pit (using flood sensors)
- presence of smoke (using smoke detectors)
- overloading (using weight sensors on the car floor)

The integrated relay and the relays of the Esse-ti alarm system or gateway allow active maintenance to be carried out remotely or locally (according to pre-programmed logic)

Hardware description
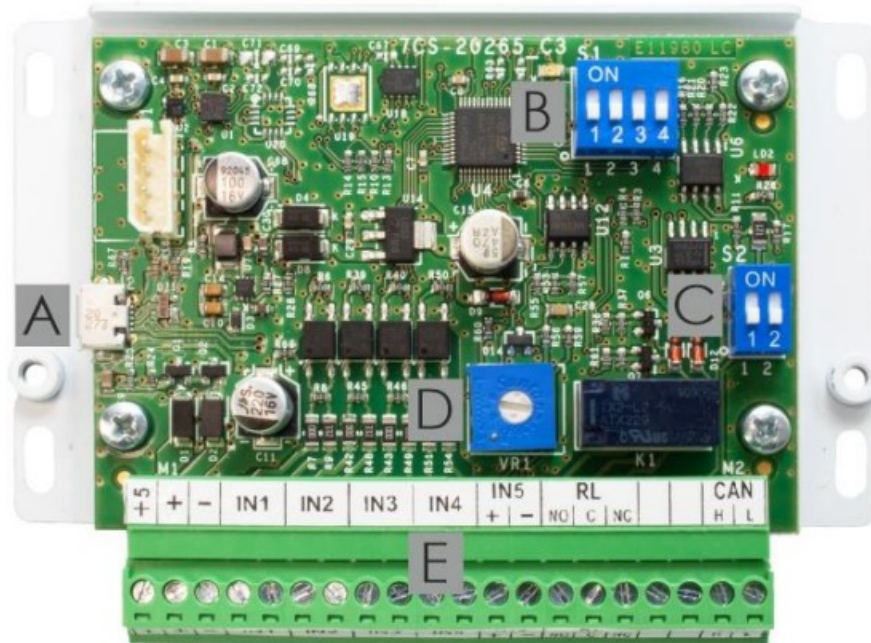
- A Micro USB AB port for PC connection
- B Not used
- C CAN-bus termination dip switch*
- D Analog input trimmer
- E Terminal blocks

Terminal blocks

- +5 5 Vdc output
- + 11-40 Vdc power supply input
- – Negative pole
- IN1 Digital input IN1
- IN1 Digital input IN1
- IN2 Digital input IN2
- IN2 Digital input IN2
- IN3 Digital input IN3
- IN3 Digital input IN3
- IN4 Digital input IN4
- IN4 Digital input IN4
- IN5 + Analog input IN5 (positive pole)
- IN5 – Analog input IN5 (negative pole)
- RL NO Relay (normally open contact)
- RL C Relay (common contact)
- RL NC Relay (normally closed contact)
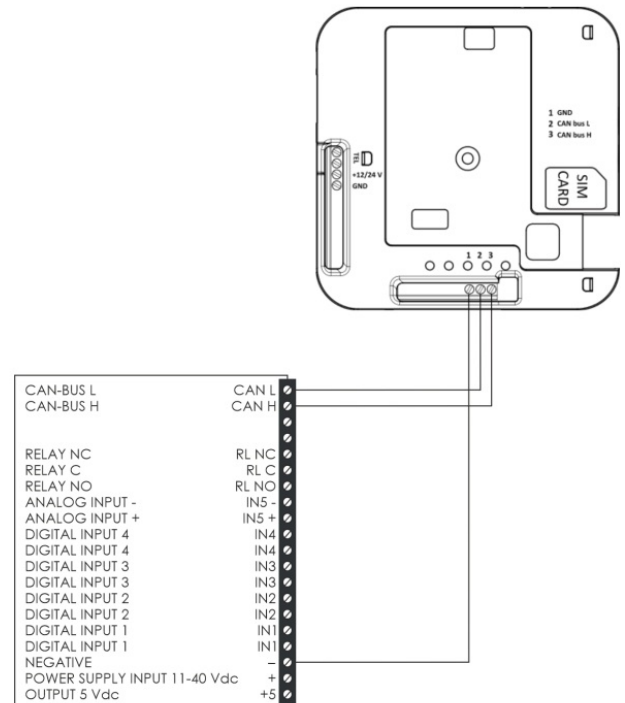- CAN H CAN-bus H
- CAN L CAN-bus L

set the switch n° 1 to ON if Liftrack is the last device on the bus (after the move, the alarm system or gateway connected to LifTrack must be restarted)

Installation

1. Fix LifTrack to the car top
2. Connect LifTrack to the Esse-ti alarm system or gateway already present on the installation via CAN-bus
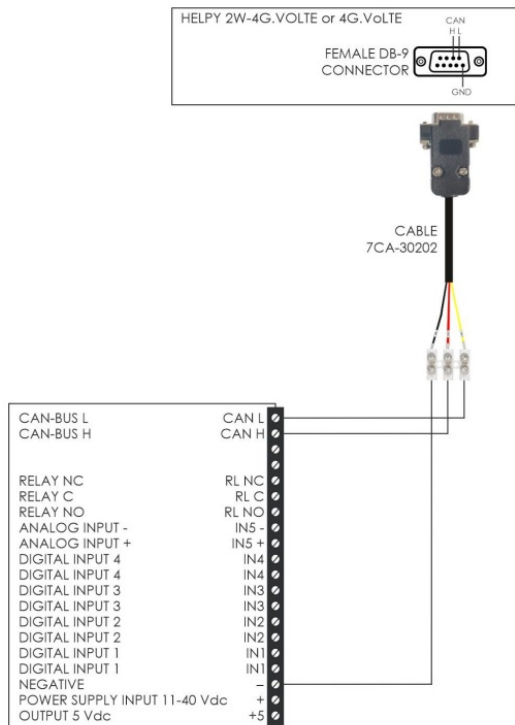
Example of connection to Helpy 2W-4G.VoLTE or to 4G.VoLTE   Example of connection to 4G.evox

3. Move the car to the lowest floor and place the Reed sensor on the roof; fix the metal plate to the wall and center the magnetic disk, as shown in the picture

4. Connect the Reed sensor to one of LifTrack's inputs (e.g. IN1)
5. For the initial self-learning procedure only, connect a lift motion signal to LifTrack (e.g. to input IN2)
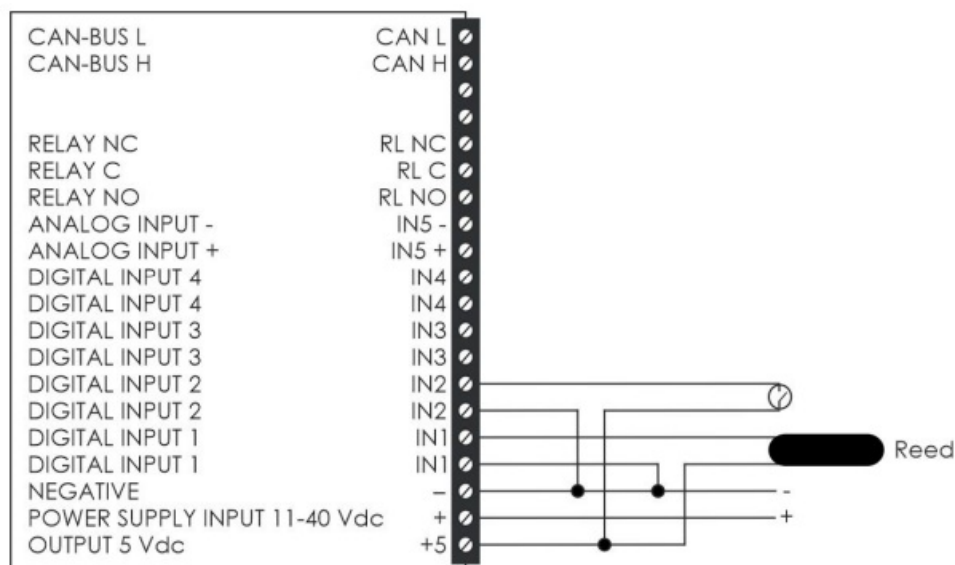
- **NOTE**: in the absence of a lift motion signal, it is possible to connect a button to be held down while the lift is in movement

6. Power on LifTrack

Configuration

LifTrack can be configured:

- remotely via an e-stant web application (data connection provided by the Esse-ti alarm system or gateway present on the installation)
- locally via micro USB port and e-stant software

Configuration via e-start web

NOTE: please refer to the e-stant web guide for registering for the service and for entering, registering, and programming the devices

1. Access e-start web
2. Enter a new lift or select an existing lift in the lifts list
3. Click on the device button and check that LifTrack is selected in the field Main data connection mode
4. Fill in the fields Number of floors and Lower floor
5. Click on the Save button
6. Click on the button to remotely configure the device

Do you want to connect to "Test_LifTrack"?   ✖

Cancel   OK

7. Click on OK to start a remote connection with the device

8. Wait for connection confirmation

- **NOTE**: Please follow steps from 9 to 18 only when connecting to Helpy 2W-4G.VoLTE; go to step 19 when connecting to 4G.VoLTE or to 4G.evox

9. Click on Data connection -> DB-9 connection
10. Select Port type (button will turn blue)
11. From the Mode menu select CAN-bus
12. Select Port settings (button will turn blue)
13. From the Speed menu select 125 kbps
14. Click on Send selected parameters (buttons will turn green)
15. Click on Data connection -> CAN-bus
16. Select (50065) Device ID (button will turn blue)
17. Enter the value 000 in all fields ID1I…ID8
18. Click on Send selected parameters (buttons will turn green)

19. Click on LifTrack (NOTE: in the case of the first CAN-bus configuration, the Liftrack item may be displayed approximately 1 minute after step 18)


20. Click on Settings

21. Select the Config buttons for inputs 1 and 2 (buttons will turn blue)

22. In the Function menu of input 1, select Floor zero

23. In the Type menu of input 1, select Normally open

24. In the Function menu of input 2, select Motion

25. In the Type menu of input 2, select Normally open or Normally closed according to the type of lift motion signal used

26. Click on Send selected parameters (buttons will turn green)

NOTE: if the connection and configuration of the Reed sensor are correct, the dashboard will light up *Input 1* when the lift is at the lowest floor

NOTE: if the connection and configuration of the lift motion signal (or pushbutton) are correct, the dashboard will light up *Input 2* when the lift is moving (or the pushbutton is pressed)

27. Click on Management

28. Click on the Calibration button to start the Liftrack calibration procedure
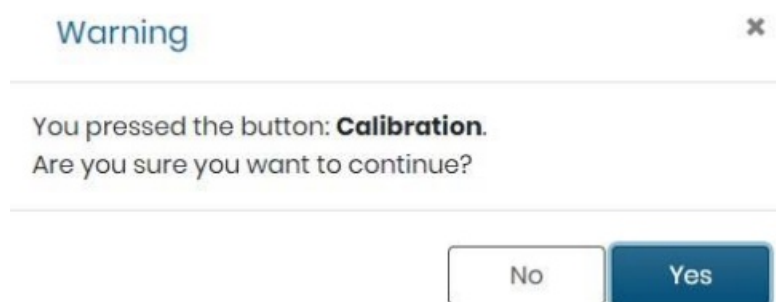
29. Click on Yes to confirm
   - At the end of the calibration procedure, the dashboard displays "Done
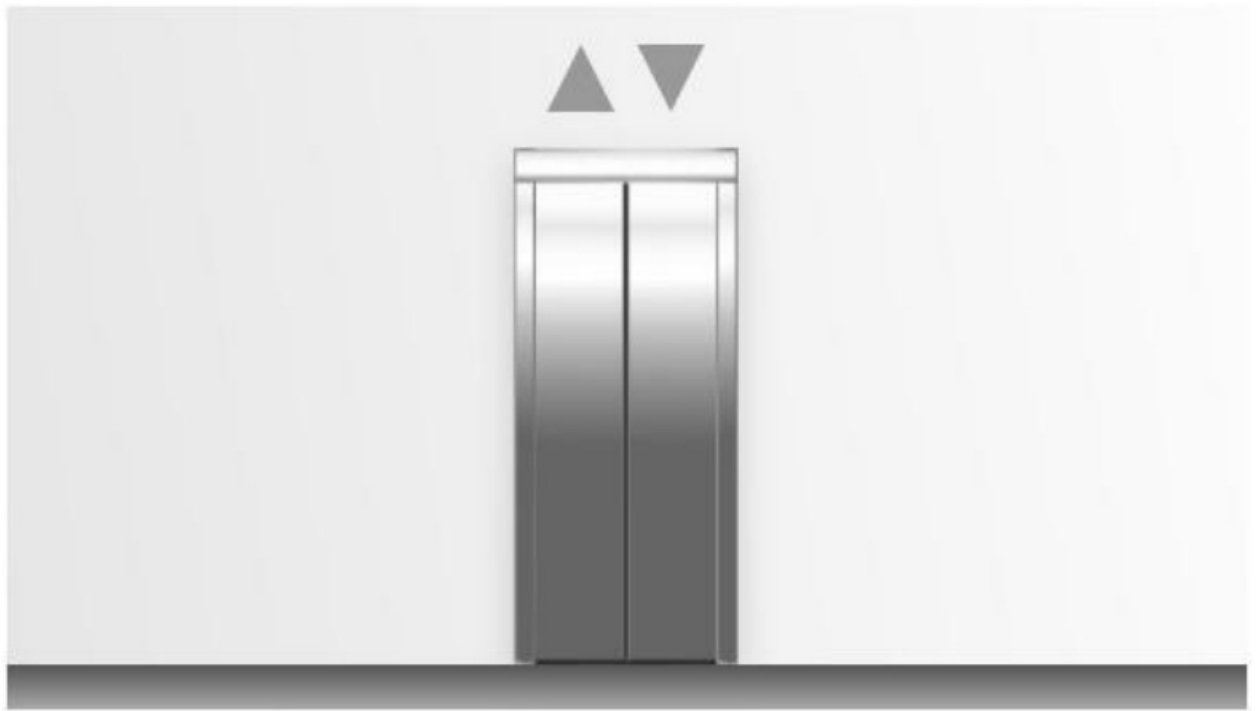
Calibration   Done
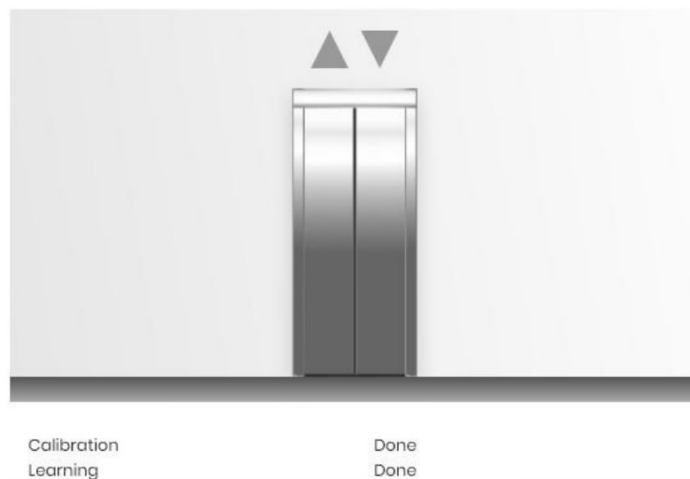Learning   Not available

30. Click on the Learning button to start the Liftrack self-learning procedure

- WARNING: before clicking on Yes, make sure that the car is at the lowest floor

31. Click on Yes to confirm

32. Within 15 minutes, run the self-learning procedure described in the next paragraph At the end of the procedure, the dashboard displays "Done".

Calibration   Done
Learning   Done

Self-learning procedure

LifTrack requires the self-learning procedure to acquire information on the number and position of floors
Procedure:

- move the car from the lowest to the highest floor, stopping at each floor for the time required by the opening and closing of the doors (if a pushbutton is connected to input 2, press it every time the car moves from one floor to another and release it when the car stops at the floor)
-]once you have reached the highest floor, you shall move the car directly to the lowest floor without intermediate stops

Note If a pushbutton has been used in the absence of a lift motion signal, the pushbutton must be disconnected at the end of the self-learning procedure and the input
programming must be cleared:

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Documents / Resources

esse-ti LifTrack Monitoring System [pdf] Owner's Manual
LifTrack Monitoring System, Monitoring System, System

References

- **Esse-ti - L'eccellenza del "Made in Italy" al servizio della comunicazione**
- **User Manual**