LIFTECH

CONTROL SYSTEM FOR ROPEWAYS AND LIFTS

Save energy and costs

The use of high efficiency frequency converters provides several benefits for optimized motor control. All drives are equipped with specific application developed for ropeways.

Most modern control technique

The core of the control systems is the PILZ PSS 3000 safety PLC with our software application. All the safety functions and supervisions are computed on the highest safety level (AK4 in EN 13243).

Funicular de Viseu

Operating since 2009 this installation shares the track with cars and pedestrians. To assure a safe operation a traffic light system was installed and controlled by the funicular's control system.

Technical data:

Distance: 392 m;
Máx slope: 10,1°
Cars: 2, 50 persons + car attendant
Speed: 2,0 m/s;

Safe communication

Control and safety signals between cars and main station transmitted through the traction cable using a contactless system, ensuring full supervision of the cars.

Access control system

Integrated with the automation system, provides passenger counting and produces detailed reports of the installation use.

Safe communication

Safetybus network between cars and main station is implemented using a radiant cable. Through this network goes all the data exchange between the vehicles and the statins, including safety signals.

Wifi - IP

Audio and video transmitted using WIFI technology and IP equipment.

Funicular de Santa Lúzia

With 80 years old, this installation was renewed in 2005, including the total replacement of the control system, including audio, CCTV and hydrostatic group for emergency, it is in operating since 2007.

Technical data:

Distance: 360 m;
Max/min slope: 18°
Cars: 2; 25 persons
Speed: 2,0 m/s

Supervision software - Easy, friendly operation
Installed on PC or touch screen, provides overall view of the program functions and installation status. Includes comprehensive fault information in case of breakdown for fast resolution.
If an internet connection is available, remote support is possible.

Rescue system
In case of power or main drive failure, rescue is assured by hydraulic auxiliary drive. All safety systems are operational during emergency rescue.

Automatic operation mode

Equipment operated like a lift, without any human presence on the installation.

Remote suport

Remote support and diagnostics of the control system is possible through an internet connection. In case of a problem, trouble shooting of the control system can be optimized and sped-up with all the information from PLC programs (PSS), including the cars. Time consuming explanation of the fault by exploitation people becomes unnecessary. The whole system maintenance is quicker, more complete and more precise.

Ultra sound detection of obstacles

For unattended installations, the presence of objects in the track can be automatically detected.

UPS

Rescue system - in case of power failure, an uninterrupted power supply assures that the travel is finished without any inconvenient for passengers.

Funicular da Covilhã

Urban installation with intensive use, operating since 2013. Has a full automatic operating mode, without presence of any personal on the installation. Trips are trigged by users, similar to a Lift.

Technical data:

Distance: 200 m;
Slope: 32°
Cars: 1; 15 persons
Speed: 2,0 m/s

Teleférico da Nazaré

Urban installation with intensive use, operating since 2013. Has a full automatic operating mode, without presence of any personal on the installation. Trips are trigged by users, similar to a Lift.

Technical data:

Distance: 200 m;
Slope: 32°
Cars: 1; 15 persons
Speed: 2,0 m/s

Rescue system
In case of power or main drive failure, rescue is assured by diesel generator and an auxiliary drive, operating the installation a low speed.

Safe communication
Connection between stations through Safetybus network over fiber-optics embedded in the haul rope.

Inclined Lift

Urban outdoor inclined lift, designed for intensive use, in operation since 2009. Without machine room, has the drive motor installed on board of the panoramic car.

Technical data:

Distance: 60 m;
Max/min slope: 35°
Cars: 11 persons
Speed: 1,0 m/s
Certification EN81

Urban outdoor inclined lift, designed for intensive use, in operation since 2013. With machine room, uses the new generation gearless drives.

Technical data:

Distance: 40 m;
Max/min slope: 39°
Cars: 11 persons
Speed: 1,0 m/s

Control system for lifts
Electronic based controller for lifts, with VVVF control, EN 81 certified.

Power and control signals to cabin using power rails or electric chain.

ROPEWAY SPECIALISTS

LIFTECH is a company with origins in the Department of Elevator Systems at EFACEC.
It has a accumulated know-how of over 50 years in the manufacture of control systems and electrical components for lift systems. It is an engineering company that focuses on design and development.

Designed to meet your needs

Tramway operators are naturally interested in achieving uncompromised safety, maximum reliability and economy in order to achieve a perfect balance of profitability, benefits and customer satisfaction.
LIFTECH designs and builds its products in complete cooperation with its customers, allowing future development by the use of modular systems.
Our flexibility allows us to provide solutions both for new installations and for existing ones, which need to be modernized to new safety standards.

Customer Service

Quality and success of each project is measured not only by quality and certification of the products, but also by its warranty and after sales service. Our customer service team members are experienced and flexible, and are available for you, everyday, every hour.

The largest portuguese company of Lift Command Systems

LIFTECH

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