Lift and Elevator Technology
Intelligent system solutions for both retrofit and new designs
FASTER OVERVIEW FOR PROS

Find out about our lift and elevator solutions and have a look at our industry video on YouTube – it’s worth it!
Bringing lift technology up to speed

Wieland Electric offers the lift and elevator technology industry numerous products and solutions for elevator shafts and control cabinets. Our technically advanced products and system solutions meet the most stringent safety requirements. Field-tested and proven in the elevator technology industry are efficient, energy-saving and cost-effective. Wieland Electric supports its customers with a multitude of services, from project planning to commissioning. In closely partnered collaboration, we want to implement safe solutions together with you that conform to standards for your new construction or modernization measures.

Solutions for the Elevator Shaft
Innovative elevator and lighting solutions for passenger, freight elevators, service lift and escalators to meet normative requirements.

Components in the Control Cabinet
Power, data and signal transmission components for the elevator shaft control cabinet, perfectly matched to each other.

Comply to Standard DIN EN 81-20/50
Today, our products already satisfy the European Standard EN 81-20/50 for elevator construction and installation, applicable since 09/01/2017.

WIELAND ELECTRIC GMBH
Founded in 1910, this family company was a pioneer in electrical connection technology. Today, the internationally aligned family company, headquartered in Bamberg, Germany, is market leader in the area of pluggable installation technology. International representatives offer on-site product expertise, service and consultation in over 70 countries around the world. Innovative product and industry solutions and a high level of service are why we are successful worldwide. Our strict quality orientation ensures the highest reliability and long service life of our products in the field. Over 2,200 engaged persons worldwide enable this success.
Plug & Play

Lighting and Connection Components for the Shaft and Car: Overview

In Use for:
+ Passenger elevators
+ Freight elevators
+ Service lifts
+ Escalators

Signal Distribution
Preassembled distribution box with terminal strips for quick installation

Shaft Lighting
podis® LED Lights
Pluggable light, without maintenance
We support and advise you about shaft and emergency lighting, cabling and elevator safety throughout the entire equipment life cycle. With our products, we offer reliable components of the highest quality that can make a decisive contribution to efficiency and safe elevator operation.

Safety Sensors
Safety monitoring for systems

Device Connection
RST® MINI
The mechanical, color-coded device connection for a secure connection

Emergency Lighting for the Shaft and Car
pDIS®LED Emergency Light
The reliable light without maintenance

Power Supply and Distribution
RST® CLASSIC
Pluggable distributors with the highest degree of IP protection; the all-purpose solution for fast connection
Shaft Lighting
Pluggable + No Maintenance + Energy Savings
1 podis® LED Pluggable Shaft Lighting

Plan your shaft illumination with our pluggable podis® LED system lights. With our RST® pluggable connectors, they are assembled without requirement for any tools. This results in a safe, faultless and quicker installation time.

- Energy-saving LED technology
- Robust design, protection class IP68 / IP69
- No maintenance & especially long life
- Operating temperature –40 to 55 °C
- Efficient light source at 2000 lumens

2 podis® LED Emergency Lighting

Easy to install, no maintenance; this is how the emergency light supports safety in elevators during, e.g., power failures, while complying with Standard DIN EN 81-20 and EN 81-20 5.4.10.4.

- Energy-saving LED technology
- Small, compact and robust housing
- Ready-to-connect with wire
- Low power consumption
- 360 lumens

3 RST® Pluggable Connector for Fast Connection

The RST® Series of factory-assembled components facilitate continuous pluggable connection from the distributor to each demand point in the light shaft. The installation time is significantly cut and installation errors are avoided. This offers safety and saves costs.

- Contact-proof and re-connectable
- Clearly laid-out wiring
- Robust design, protection class IP68 / IP69
- Mechanically and color-coded
- Integrated locking and strain relief
Our distribution boxes are constructed modularly and can be delivered customized to fit your specific requirements. Either with preassembled wires, terminal strips, assembled and wired distribution boxes, or with special hardware solutions for your system technology.

We offer you customer-specific cable assemblies and sets with a wide range of components that we put together to suit your requirements.

**fasis/selos** DIN-rail Terminal Blocks

Logistical Effort and Time for Installation

**fasis** WTP DIN-rail terminal blocks with push-in connection – terminate wires easily, directly and without tools

**fasis** WKN DIN-rail terminal blocks with tension spring technology – easy to handle, vibration-proof and no-maintenance

**selos** DIN-rail terminal blocks with screw connection – secure connection, proven concept, solid and functional, known worldwide and in use millions of times over
Sensors
Discrete safety devices

Position Switches
Position switches with safe contacts.
Diverse applications in elevator construction.
Used wherever safety or positioning play a central role.

• No tools required to turn or exchange the actuation device
• Actuation device made of metal
• Highest contact security: 1 mA at 24 VDC
• Protection classes IP66 and IP67

SMA Coded Magnetic Switches
The SMA Series magnetic switches are widely used in elevator construction to create zones or delay points.

• Rectangular design
• Manipulation-proof
• Up to PL e / category 4 (EN ISO 13849-1)
• Protection class IP67

STS Non-Contact Safety Switches
STS safety switches with coding are used for monitoring the arrival of the elevator car when it reaches the floors. The STS Series has an integrated evaluation function and a built-in manipulation safeguarding.

• Automatic or manual start
• Up to PL e / category 4 (EN 13849-1)
• Up to 30 sensors can be cascaded
• Protection classes IP67 and IP69

safety Catalog
Safe System Solutions for Automation Technology
Order No. 0860.1
Safe Monitoring
System components for the lift control cabinet

In Use for:
+ Passenger elevators
+ Freight elevators
+ Service lifts
+ Escalators

**Industrialized Power Supply**
*Wipos*
Robust, proven power supply technology. Redundancy module for uninterruptible power supply

**wiecon**
Printed circuit board terminals are standard components in innumerable applications
Safety Control
*samos®PRO COMPACT*
Safety control with the highest performance capacity in the smallest space

Safety Relays
*safe RELAY*
Zone monitoring of the elevator car or service shaft; door monitoring or UCM.

Connected Easily and Safely
*wieneT* Wireless LAN Access Point
Simple communication for modern information systems in elevators

Connection Technology
DIN-rail terminal blocks in compact design and different connection technologies
Proven Wieland safety solutions fulfill the elevator industry requirements and are certified in accordance with EN 81-20/50 and EN ISO 13849, EN 62061 / EN 61508.
1 Safe Monitoring

Many safety functions can be realized with our safety relays and programmable controls.

- Position monitoring for an elevator car in elevator systems
- Car door monitoring provided by closing position and locking
- Unintended Car Movement (UCM)
- Reduced car speed
- Service Operating Modes
- Emergency top/bottom end position monitoring

2 Communication Interface

The integrated Ethernet communication system supports fieldbus interfaces, such as PROFINET, Ethernet/IP and Modbus TCP. Even further, CANopen, Profibus and Ethercat can also be realized with ease.

- Fieldbus protocol CANopen, Transfer rate up to 1 MBit/s
- Fieldbus protocol PROFIBUS-DP, Transfer rate 12 MBit/s
- EtherCAT industrial Ethernet protocol
- Bidirectional communication with PLC
- Transfer of 50 bytes of data
- Simple configuration with samos® PLAN 6

3 samos® PLAN 6 Planning Tool

Easily programmable with license-free software tool. Thanks to the simulation function and extensive diagnostics, commissioning times can be significantly reduced. With the comprehensive library, the safety function modules can also be programmed to customer-specific elevator modules.

- Configurable project documentation at the click of a button
- Integrated simulation and logic analysis of safety functions
- Easy integration of fieldbus and Ethernet networks
- Online diagnosis and remote maintenance for increased transparency
**PCB Terminals**

For Power, Data and Signal Transmission to Main Elevator Controls and Switching Devices

*wiecon* printed circuit board terminals are standard components in many applications. Whether with screw spring connection, pluggable or in the solder design with pitches 2.5 - 10.16 mm. The clearly legible marking, playfully simple conductor connection and integrated test function provide service-friendly usability and guarantee reliable connections.
1 **wiecon 8213 BFK**

With innovative locking lever for vibration-proof connection.

- Latch and release locking, screw flange and clip-on flange
- Pin headers for reflow process
- Individually printable

2 **wiecon 8142 ZP**

Pin headers with no housing.

- For wave or reflow soldering on tin or silver surfaces
- The most affordable type of pluggable connection
- Codeable

3 **wiecon 8113**

Space-saving, secure pluggable printed circuit board terminals.

- Optimized for the largest cross section with the smallest space demands
- Crimp connection for fast, accurate pre-wiring at the manufacturer’s

4 **wiecon 8562 N**

Directly pluggable printed circuit board terminals with a design that facilitates space-saving placement.

- 45° conductor exit enables terminal after terminal to be placed in several rows
- Pushbutton also visible with connected conductor

**wiecon Catalog**
Overview of Printed Circuit Board Terminals and Pluggable Connectors
Order No. 0580.1
Plan your elevator control cabinet with Wieland’s intelligent interface products for power supply, networking and monitoring. We offer you a product range that has proven itself many times over, with innovative WLAN access point, network switches and products for monitoring phase and power supply.
Power supplies from single- and 3-phase devices for the DIN-rail mounting and virtually every application possibility.

- 120 % power boost for 10 s
- Compensate power failures with an adjustable output voltage
- 100 % capacity up to 60 °C
- Full performance in 2-phase operation

Network switches, WLAN access points and VPN routers for networking in the era of Industry 4.0.

- Complete diagnostic display through diverse LEDs
- Redundant power supply
- DIN-rail mounting or screw attachment
- Light Managed variants (QoS, Jumbo Frame)

The Wieland phase monitoring relay immediately recognizes power failures, for protection when mains quality is inadequate.

- Recognizes incorrect phase sequence
- Closed-circuit principle
- Installation width 22.5 mm
- Two 5 A change-over contacts

The demand for information within building complexes and the ability to access and receive data is rising steadily. Our Wieland interface components can be used to enable easy, efficient communication for information systems in modern elevator cars.

- WLAN access point in industrial design
- Ethernet 10/100BaseT
- Operating voltage 24 V DC
- 35 mm DIN-rail mounting per EN 60715
Your Assembled Terminal Strip with

**wieplan CLICK2BUY**

With the intelligent *wieplan CLICK2BUY* online tool, project planning and development – particularly pricing and ordering terminal strips – has never been easier. Thanks to the simple, intuitive tool, individual terminal strips are quickly configured. *wieplan CLICK2BUY* immediately determines the terminal strip price and enables one-click ordering. The terminal strips are assembled and delivered within just five workdays, starting at one piece.

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**Your Wieland delivery pledge:**

Ordered in 2 minutes, delivered in 5 days.
Technical Consultation
and General Information

Use the Wieland Hotline – A Single Call is All It Takes

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eshop.wieland-electric.com

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