



HEADQUARTERS

Wieland Electric GmbH Brennerstraße 10 – 14 96052 Bamberg · Germany

Phone +49 951 9324-0 Fax +49 951 9324-198 info@wieland-electric.com



power + control distribution.

0432.1 D 11/18

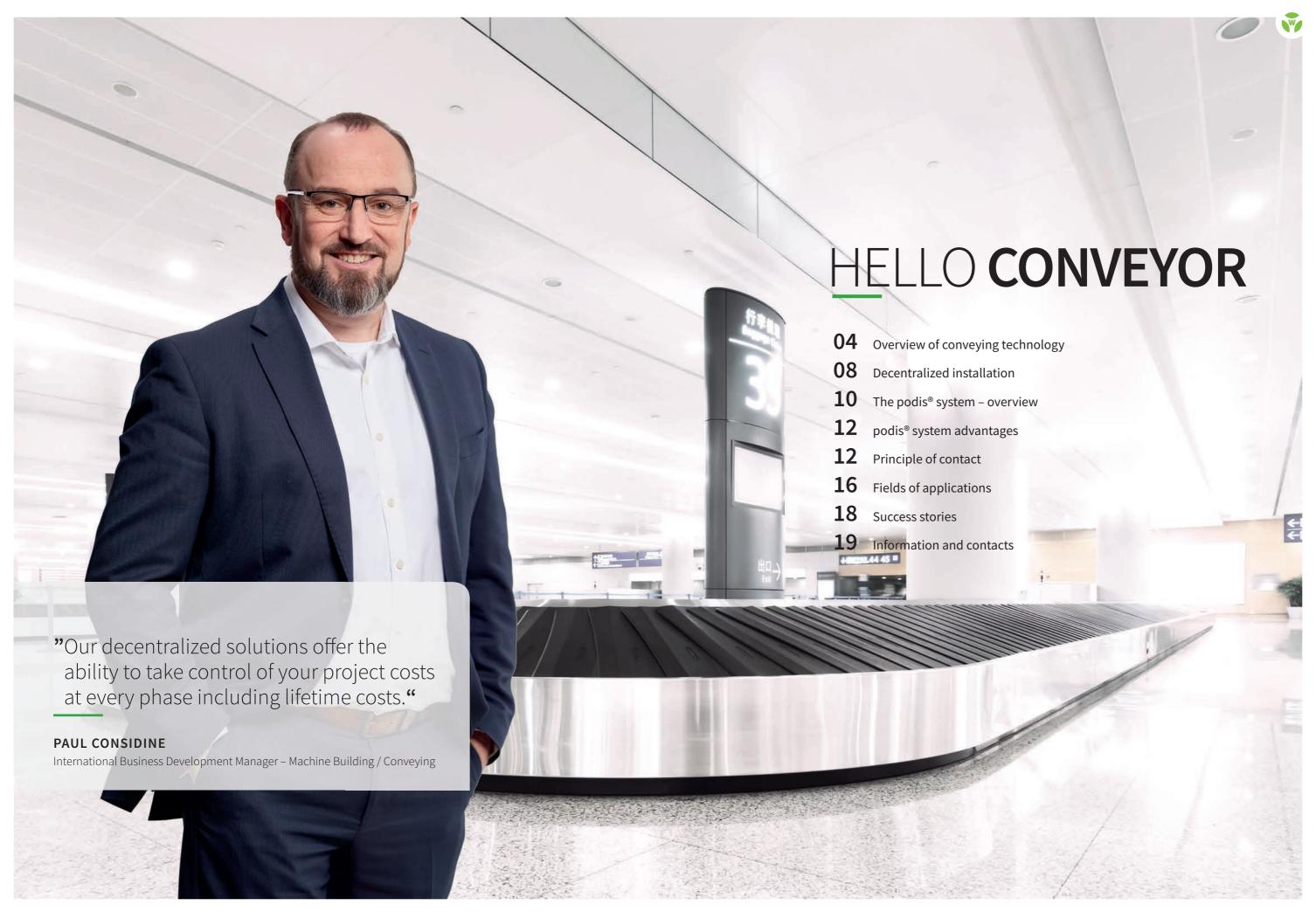
Global sales partners in over 70 countries:

www.wieland-electric.com

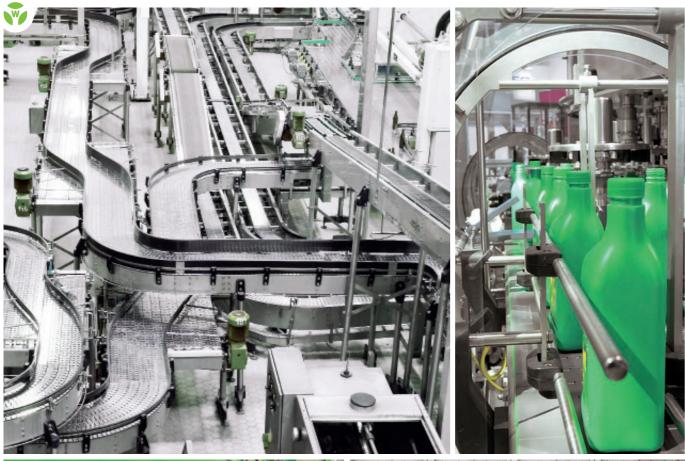
+ INSTALLATION COMPONENTS

+ CONNECTION TECHNOLOGY

+ DESIGN + PLANNING













SMART SOLUTIONS FOR THE CONVEYING INDUSTRY.

We are not only one of the leading suppliers of electrical connection and safety system technology, but also an experienced and reliable partner to international machine builders and deliverer for the conveying industry. As a pulse giving innovator and industry expert with our own mechanical engineering and production lines, we transform industry know-how into precisely tailored conveying industrial solutions.

Our industry solutions focus on optimizing the entire machine life cycle. Cost and competitive pressure can only be faced today and in the future with efficiency and time savings. Our goal is to increase your competitiveness with our intelligent products and solutions. We exploit plant potentials, optimize them, reduce maintenance to almost zero and as a result we improve your economic efficiency and performance. With our solutions, you can rely on efficient and cost-reducing installation systems that are flexible and modular. With the highest standards and always with added value.



MODULAR SYSTEM

All our components are designed to meet your market requirements.

Modular design makes it easy to handle.



SAVINGS

Minimal inventory and simplified assembly reduce installation time. Guaranteed termination reduces commissioning time.



PROJECT LIFE CYCLE

ry and We advise, support and hbly train you. From the very on time. first calculation all the mination way to the installation.

SOLUTIONS FOR:

- + AIRPORT LOGISTICS
- + PARCEL LOGISTICS
- + POST LOGISTICS
- + WAREHOUSE LOGISTICS
- + INTRA LOGISTICS
- + SYSTEM + PROCESS ENGINEERING
- + INTEGRATED MACHINE SOLUTIONS

4 · Conveyor technology Conveyor technology





APPROPRIATE FOR VARIOUS **APPLICATIONS**.



LINEAR APPLICATIONS

Long linear conveyor lines with a power and control requirement over long distances. Typically require multiple tap-offs to supply decentralized control devices, most common application is to supply motors and starters. With podis® uncut continuous power bus considerable installation time savings can be achieved. Reducing project costs.

MODULAR APPLICATIONS

Typically applications where a more complex supply architecture than a single supply line is required due to the structure of the system or process. The supply system can route in to many sub-branches. Therefore the cabling and connector requirement is much more complex. RST® is a pluggable solution that offers the ability to achieve such complex supply and control structures. The pluggable nature of RST® offers fast installation therefore a reduction in installation time.





SOLUTIONS + ACCESSORIES

We offer a range of devices to complement the power and control distribution of podis® and RST® to offer a fully integrated solution for your applications. This range includes fieldbus distribution modules, distribution modules, LED lighting modules for servicing and maintenance, cable assembly solutions for power and control applications plus various connection accessories.

DECENTRALIZED INSTALLATION REDUCES COSTS AND TIME.

Today's conveying systems must be flexible, energy-efficient, reliable and adaptable. This includes that automation components have to be not only effective, but also quick to install and easy to use. With well-engineered and future-proof products we offer you solutions for all requirements of the conveying industry.

PLAN EFFICIENTLY + **COST-EFFECTIVELY**

Smart automation sustainably reduces a conveying system's energy needs, so investments in automation technology pay for themselves - not just in few years – usually already during the installation phase.



installation with our podis® installation

SMARTER INSTALLATION -

We have revolutionized electrical

UNLIMITED POTENTIAL

system. High-quality and durable components convince through impressive 70 % time and 30 % cost savings! podis® has been conceived as a modular system: all of the productgroups complement each other and enable smart and cost-effective electrical installation, from the distribution point to the load.

By opting for a podis® tray cable system you can benefit from all the advantages of a smart electrical installation. You can install branches at any point and at any time, quickly and safely, without having to cut the cable! The compact design and high protection rating (IP65) allow optimal integration even under cramped system conditions.

Cable-contacts are made by means of copper displacement connection technology. Three systems with different cross sections are available to you, regardless of whether you want to distribute power or signals.

The unique termination system on the new podis® 5G6 and podis® 5G16 System ensure 100 % guaranteed termination. This not only reduces installation times but also commissioning time.





YOUR BENEFITS

- + Easy planning clean structures
- + 70 % time saving
- + 30 % lower installation costs
- + Install 12 m of conveying belt in 10 minutes
- + Fast installation + reduced commissioning time

6 · Conveyor technology Conveyor technology · 7



SMART **ADVANTAGES**FOR **YOUR** APPLICATIONS.

Decentralized systems i.e. the installing of switching and control functions near the consumer device in the field, is proven to offer considerable cost saving over centralized cabling solutions. Integrating the efficiency presented by fieldbuses. Enormous gains of installation time can be achieved.



SUPERIOR HANDLING

Our industrially prefabricated and tested components are easy to plug together on site. With pluggable podis®, your customers save 70 % of time and up to 30 % of installation costs.



FAST PLANNING + INSTALLATION

A positive side-effect of our standardized module production interface is a clear reduction in inventory. Even the installation around corners is possible. At the same time, pre-assemblies improve your response time for variants or special solutions.

Time-consuming cutting and stripping of the cable is eliminated through the safe tap-off adapter with copper displacement contacting.



SAFE INSTALLATION

Our podis® and RST® components are touch-proof, are secured against unintentional disconnection and are distinguished with international approvals. Unique mechanical coding prevents installation errors. The unique terminals ensure 100 % correct connection. Therefore reducing commissioning time.



UNCOMPROMISING OPERATION

Our podis® powerbus makes the operation of your system maintenance-free. The termination takes place via our patented copper displacement connection technology. Once installed, this type of connection technology allows our system to be maintenance-free for the lifetime of the product. The system design means the terminations can be guaranteed fault-free, there is no need for test and inspection. This offers further labor, time and cost savings on your project, in addition to the already substantial saving on installation.



YOUR BENEFITS

- + Reliably calculable project timelines & cost
- + Power available wherever and whenever easily quickly safely
- + Tap-offs can be mounted anywhere
- + Maintenance-free installation

PODIS® AND RST® CONNECTIVITY SOLUTIONS.

Wieland is the inventor of pluggable electrical installation. More than 40 years of experience, know-how, and innovation have gone into our products.

podis® is a modular, pluggable power bus system for decentralized power distribution. The system includes feeder and distributor modules, service switches, fixed and plug-in power branches, pre-assembled cable sets and a wide range of accessories, that simplify all processes in a conveying plant project:

- ▶ Planning and design
- ▶ Procurement and material flow
- ► Installation set-up
- ► Reduced commissioning
- ► Maintenance and service



PODIS® CON

Decentralized Power Distribution

5 to 7 poles, 4 -16 mm² cable cross-section, 32/40/63 A

$\mathsf{RST}^{\scriptscriptstyle{\circledR}}$

Decentralized Power Distribution

2 to 7 poles, up to 50 A, IP68/69

PODIS® EFC

Electronic Field Components

Distributor modules, motor starters, I/O modules, switches.

PODIS® LED

LED Luminaires

Pluggable LED luminaires and emergency lights for conveyor plants.

PODIS® S+A

Specialities + Accessories

Project specific accessories and system components.





INSTALLATION + OPERATION.

SAFE. FAST. FLEXIBLE.

The podis® 100 % guaranteed termination. Designed to eliminate the need to test or inspect the installation, thus offering further cost savings (to IEC/UL requirement).



COPPER DISPLACEMENT TERMINAL TECHNOLOGY

Wieland copper displacement terminal technology means there is no reduction in the current rating of the cable. It also allows the removal of the terminal. Allowing flexible installation should modification of the installation be required. The terminal design with an end stop and the recommended use of a torque screwdriver guarantees termination.

VISUAL INDICATION OF TERMINATION

Rising/falling terminal collar integrated in the design of the copper displacement terminal gives visual indication of termination as required by certain installation standards for verification of the termination.





PODIS® MOTORSTARTER AS A SUPPLEMENT

Motor cable assemblies manufactured in Wieland's ISO9001/ UL508A production facility guarantee connectivity. The fact, it is produced in an approved facility, removes the need for testing on site.

COST REDUCTION.



NO CABLE CUTTING NECESSARY

There is no need for any laborious cutting, baring, stripping, or clamping of the cables.

INSTALLATION AT ANY POINT AND AT ANY TIME

Flexible installation allows the connection modules to be terminated in any position. The modules can also be moved anywhere and at any time. Not just during installation and commissioning but also during the lifetime of the installation. Useful if the system needs modifying or expanding.





REDUCE COSTS WITH DECENTRALIZED INSTALLATION

When compared to a traditional centralized installation, decentralized solutions offer savings in wiring, cable trays, fixtures and remove the need for rigid steel conduit. It also reduces the number and size of distribution panels.





PODIS® QUICK INSTALLATION IN CABLE DUCT.

podis® power bus solutions are optimally suited for laying and installing directly in cable ducts or in cable layouts. Because of the compact and narrow design (60 mm) and cables aligned longitudinally, the installation in the cable duct requires very little space.



Open the housing



Mounting the module. Here by using a mounting plate.



Copper displacement connection of the cable



Insert the round cable



Open the housing base



Closing of the housing. Finished!



Fastening the wires



Insert the tray cable and close the housing base



Faster installation with pre-wired, pluggable RST® connector

PODIS® MOTORSTARTER ON THE POWERBUS.

The podis[®] motor starters for decentralized applications close to motors are based on the podis[®] power bus solution and can be used in harsh industrial environments.



Motor starter, remote



Motor starter, direct plug-in



Motor disconnect switch

The podis® motor starters functionally belong to the family of active field distributors for the creation of distributed drive controls in conveyor facilities. In an extremely compact housing, the motor starters combine the function of an electronic motor starter with AS-i control and the connection of up to three sensors.

podis® motor starters can be used for applications where three-phase standard motors with up to 1.5 kW are started directly, optionally in one or in two rotational directions. Its compact design and high degree of IP65 protection provide for optimal integration even in areas of the facility where space is at a premium. This facilitates project engineering and reduces installation and commissioning.

It's worth comparing – it's worth to making the cost check:





wieland

SUCCESS STORIES.

Our successful products are found in conveyor systems all over the world.



OUR CLIENT

Los Angeles International Airport (LAX) is the largest international commercial airport in the greater Los Angeles area. With 84.6 million passengers in 2017, it is the second largest airport in the USA (after Atlanta) and the fourth largest in the world. LAX serves as a hub for American Airlines, United Airlines and Alaska Airlines.

It operates 692 daily flights to/from 85 domestic destinations and another 928 weekly flights to and from 67 cities in 34 countries from Los Angeles airport.

www.flylax.com

- + Volume: 12,000 m of podis®
- + Phase 2 and 3 to be defined over the next 5-10 years

THE TASK

Our customer wanted a decentralized installation solution with low maintenance requirements for the renewal of his baggage conveyor system.

The products had to be absolutely reliable, field-tested and equipped with international certifications and approvals.

OUR SOLUTION

Los Angeles local and UL Inspectors have approved podis® for use on baggage handling systems planned for installation on the LAX redevelopment. This is a three phase project over the next 10 years.

Phase 1 will use 12,000m of podis® 7G4 cable. **Phases 2 and 3** to be defined.

podis® will replace traditional pipe and wiring practice for the first time on an airport project in the USA. Wieland has met all the necessary product and installation approval requirements demanded in Los Angeles.

SAVINGS:

70 % time saving for installation and commissioning versus traditional methods equates to directly comparable saving in labor costs.





UPS Distribution Centres, North America

- Parcel and post handling conveyor systems
- Installation partner subsystem
- Power distribution



London Heathrow, England

- Luggage handling system
- Close to 10,000 connection modules
- No spare parts have to be kept in stock, because of highest reliability



Toronto Airport, Canada

- Luggage handling system
- UL and CSA approval
- Power distribution for drives and LED-lights



BMW Werk Regensburg, Germany

- Supplying conveyor
- Production line



Macau Ferry Terminal, China

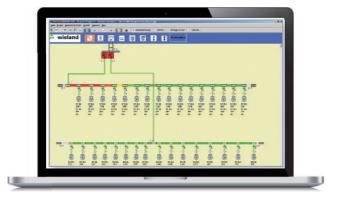
- Luggage handling system
- Power distribution



wieland

PODIS®PLAN.

THE EFFICIENT PROJECT PLANNING TOOL



The podis® PLAN project planning tool supports you in calculating the power requirements of your specific power bus configuration.

Using graphic support, you can determine the optimum configuration of your power bus with the ideal entry point and prevent down times

caused by unresponsive protective devices. Inconsistencies or unfavorable configurations are already detectable in the project planning phase. Costly mistakes are prevented early on, i.e. in the initial project planning phase.

SYSTEM REQUIREMENTS:

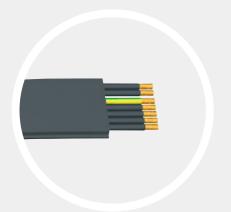
Pentium >300 MHz, 64 MByte RAM, Windows 95/98/2000/NT/ME/XP/ 7/8/10 Note: licensed version activating via license key

Request podis® PLAN: podisplan@wieland-electric.com

CERTIFICATE OF COMPLIANCE

INTERNATIONAL **APPROVALS**.

Product and system approvals allow podis® to be used in applications all over the world. For instance UL2875 and UL1277 fullfill all the installation requirements in the USA.









OUR WIELAND BROCHURES SERVICE

To make life easier for you, we offer all our product catalogs and industry brochures in the downloads section of our website.

https://www.wieland-electric.com/en/download

Further information and a product overview is available here:



PODIS® LED

LED lights for use in industrial environments **Art. No. 0832.1**



PODIS® CATALOG

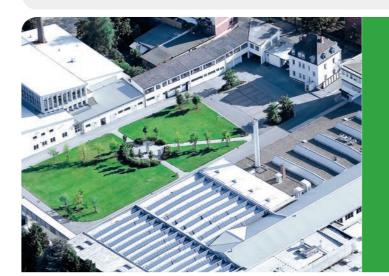
Decentralized
Automation
Art. No. 0830.1



RST® CATALOG

Pluggable electrical installation with highest IP rating (IP6X)

Art. No. 0690.1





TECHNICAL CONSULTATION INDUSTRIAL AUTOMATION

Phone: +49 951 9324-991

Mail: AT.TS@wieland-electric.com



ONLY **ONE TIP** AWAY.

Scan QR code – view products in the

OUR WIELAND E-SHOPEVERY PRODUCT - ANY TIME

In our online store you will find all the information about our products, 3D data, all the technical data, approvals, and certificates, and also prices. Order easily and conveniently online and check availability.

