wieland

Headquarters:
Wieland Electric GmbH
Brennerstraße 10 – 14
D-96052 Bamberg

Sales and Marketing Center:
Wieland Electric GmbH
Benzstraße 9
D-96052 Bamberg

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

Industrial technology

Solutions for the control cabinet
- DIN rail terminal blocks
  - Screw, spring clamp or IDC connection technology
  - Wire cross sections up to 240 mm²
  - Numerous special functions
  - Software solutions interfacing to CAE systems
- Safety
  - Safety sensors
  - Safety relays
  - Modular safety systems with fieldbus link
- PLC and fieldbus components
  - Standard applications in IP 20
  - Increased environmental conditions with railroad and ship approvals
- Interface
  - Coupling relays, semiconductor switches
  - Measuring and monitoring relays
  - Timer and switching relays
  - Analog modules
  - Passive interfaces
  - Power supply units
  - Overvoltage protection

Solutions for field applications
- Remote automation technology
  - Power distribution
  - Fieldbus interfaces and motor starters
- Connectors for industrial applications
  - Square and round connectors
  - Aluminum or plastic housings
  - Degree of protection up to IP 68
  - Current-carrying capacity up to 100 A
  - Connectors for hazardous areas
  - Modular, application specific technology

PC board terminals and connectors
- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
  - Main power supply connectors IP 20/IP 65 ... IP 68
  - Bus connectors
  - Combined connectors
  - Low-voltage connectors
  - Power distribution system with flat cables
  - Distribution systems
  - Bus systems in KNX, LON and radio technology
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

Logistics

Logistics

Solutions for conveyor technology

Decentralized automation via power bus

wieland

contacts are green.

Product Range

0158.0 E 05/09

wieland

Always in motion.

▲ Sales and Marketing Center in Bamberg

▲ the Bamberg headquarters

▲ STOCKO headquarters in Wuppertal

wieland group

ACTIVE WORLDWIDE

With a staff of almost 2,000 employees, the Wieland Group offers a strong, worldwide presence with subsidiaries located in Great Britain, France, Spain, Italy, Poland, Canada, USA and China. Supported by a large number of independent sales representatives, Wieland, now a mid-size global player, is active in virtually all strategically important countries. Headquartered in Bamberg, Germany, Wieland is committed to its German location, where most of its products are manufactured.

automation

building

electronics

One company group, a thousand opportunities

… our philosophy for the Wieland Group.

Wieland Electric and STOCKO Contact, Wieland's independent subsidiaries, report to Wieland Holding. Together these companies cover an extraordinarily wide product range in the electrical engineering and electronics field including control cabinet engineering, industrial multipole connectors, overvoltage technology and building system technology.

Wieland Electric offers innovative solutions to many areas of automation technology and is seen as a driving force in this industry. Safety first – Wieland Electric is ideally positioned with its modular system solutions such as ***Series 4000***, ***samos***®, ***samos***® PRO and the new ***SMA*** safety sensors. Two other examples include ***podis***®, the solution-oriented system for remote power distribution, and ***ricos*** TP, the latest development in the field of automation systems for heavy duty industrial requirements.

In the building installation system sector, Wieland Electric's ***gesis***® system, leads the world market in pluggable electrical installation. Planners and architects of state-of-the-art construction projects, worldwide, including the Petronas Towers in Kuala Lumpur, have come to rely on Wieland's ***gesis***® components. Wieland pioneers the path toward the intelligent home by continuously developing its ***gesis***® product range, and especially meeting the demands of electronic networking.

Wieland Electric was founded in 1910 in Bamberg, Germany. With 1,350 staff members, it is the largest subsidiary within the company group of Wieland Holding. As a result of its numerous innovations, Wieland Electric has become a major supplier of electrical connection technology. Export share is currently at 58 %.

STOCKO Contact, located in North Rhine-Westphalia's Wuppertal, has been a member of the Wieland Group since 2001. The company can look back at a history of more than 100 years. STOCKO Contact is one of the largest European manufacturers of connector systems and crimp contacts.

Almost 100 years young and full of innovative energy

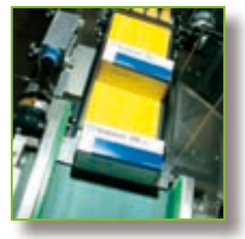
… the foundation of our company philosophy.

From this statement Wieland Electric will not only maintain, but expand its social responsibility into the future. Company guidelines demand eco-friendly high-tech products, manufactured according to state-of-the-art production standards, an audited environmental management system and extensive investments in our facilities with cutting-edge environmental technologies.

Our company policy also commits us to the long term responsibility for the future of our families and children, as well as for the city of Bamberg, in addition to innovative system solutions for our customers.

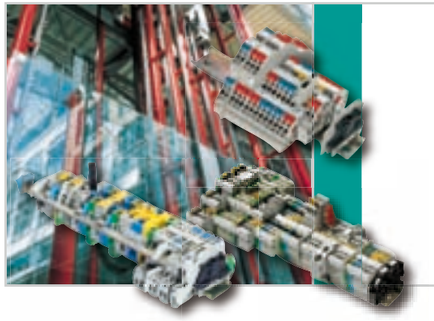
Wieland views worldwide action and regional responsibility as one.

Contents



Portfolio

fasis, selos, taris®



DIN rail terminal blocks

fasis, selos, taris – three product series, three connection technologies – one unique performance range. Regardless of which technology you prefer – screw, spring clamp or IDC. No matter where you use them – in control cabinets, in systems or in buildings. Wieland Electric offers an extensive range of DIN rail terminal blocks to meet all your requirements.

samos®, *samos*® PRO

safety technology

safety first! The wide portfolio of safety switching devices covers all important safety functions while also satisfying complex customer needs. From the safety sensors of the ***SMA*** series to the safety relay family of the ***4000 series***, and from the modular ***samos*** safety modules to the ***samos*** PRO safety controllers, you will always receive the right product to protect man and machine.

ricos

fieldbus components

Remote I/O modules from our ***ricos*** series operate with a wide range of bus systems including PROFIBUS DP, Interbus, DeviceNet, CANopen and Ethernet. ***ricos*** modules offer state-of-the-art fieldbus technology. Our "outdoor-proof" modules, ***ricos*** TP, easily cope with even the most extreme applications in utility and other large vehicles, as well as railroad or construction vehicles.

interface, dipos

relays, power supplies, electronic housings

Wherever electricity flows and signals are processed, interface products from Wieland Electric provide reliability and strength. Select from our wide range of relays, power supplies and overvoltage protection, as well as passive interfaces and analog modules for high performance. Send a message with our interface technology!

podis®

remote automation

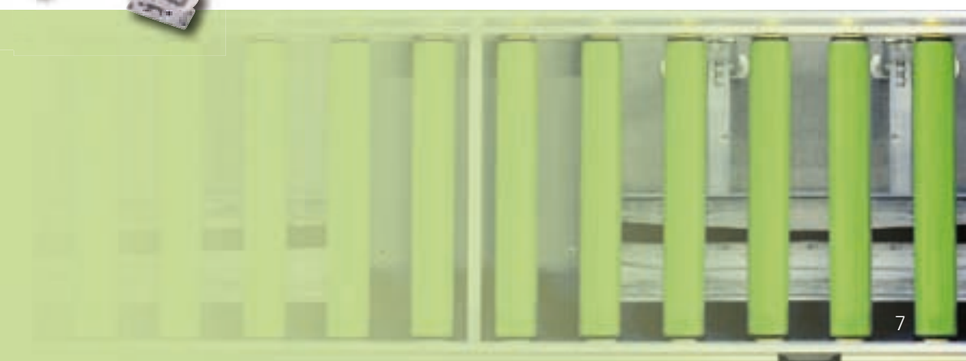
Set your facility free! Where rigid installations formerly prevented flexible configurations, ***podis*** now frees control cabinets from power components for power distribution and from drive control and monitoring. Our modularly designed podis system allows you to establish completely new applications in remote automation, easily, quickly, and flexibly.

revos

industrial multipole connectors

revos can handle even the toughest applications in the roughest environments. Whether flexible and universal connections or voltage tests with wires connected – … revos provides problem free performance in all environments.

Clear assignments when wiring, service-friendliness in the case of maintenance and individual marking options help you to maintain an overview at any time.



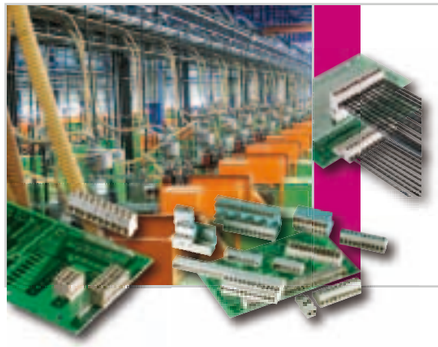
Portfolio

appliance

appliance terminals / terminal strips

Appliance terminals from Wieland Electric are the classics of electrical connection technology. When reliable connections are required for lighting fixtures and in appliances, count on our appliance terminals to get the job done.

wiecon



PC board terminals / PC board connectors

wiecon PC board terminals and connectors are a fixed component in many innovative applications. Whether with screw or spring clamp connection, pluggable or in solder version – ***wiecon*** can be found wherever control systems are required. Unique marking, effortless wire connection and intelligent test functions guarantee service-friendly use and reliable connections.

gesis® CON

connectors

gesis – For 25 years, this pluggable electrical installation has been the unchallenged market leader, providing time savings to 70% and cost reductions to 30%.

gesis CON can be used from the basement to the roof and provides solutions for any kind of electrical installation due to its unique variety of components. Luminaires, sunblinds or outlets – all with ***gesis***!

gesis® ELECTRONIC

intelligent connectors

Higher, faster, farther … intelligent networking is required to make technology keep pace with architectural achievements.

gesis ELECTRONIC offers options to make even the boldest building intelligent. Either using wireless technology from the ***gesis*** RC series, KNX components or LON switching devices, ***gesis*** ELECTRONIC makes your facility management smart!

gesis® RST

connectors

What is the result when a unique installation philosophy gets ready for use in rough environments? 1000 new application options: whether in plants and systems, for outdoor lighting, on construction sites, in solar systems or in nonresidential buildings ...

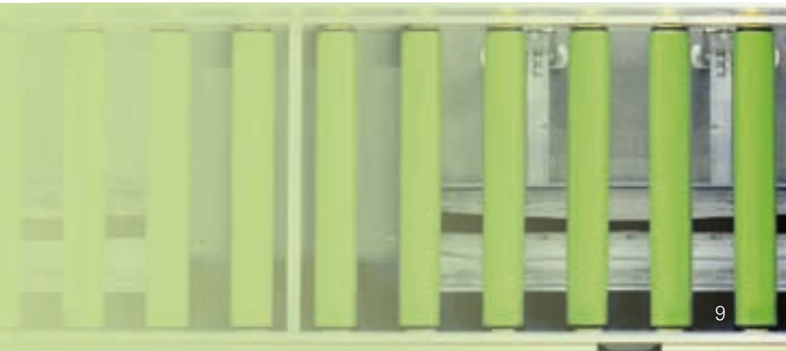
gesis RST provides IP65…IP68 protection, feels at home everywhere and definitely guarantees, even under the roughest conditions, the plug & play benefits of ***gesis***: consistent pluggability, time saving during installation, and ...

gesis® AC/DC SOLAR

connectors

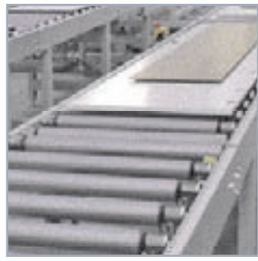
Let the sun shine in the installation! … what has caused enthusiasm in dark cable ducts and suspended ceilings for more than 25 years, now gleams in bright sunlight.

With ***gesis*** AC/DC SOLAR the successful ***gesis*** idea has now found its way into solar technology, too. Pluggability makes the most extensive solar installations as simple as – sun, plug in, ready, go!



Perfect Logistics connects

Few industries offer as much savings and rationalization potential as the field of logistics. Here, moving is not just what the business is about, it defines the industry itself. In a constant state of change and progress, Logistics offers new and more efficient solutions.



The awareness level of the true potential to be found in company material flow and logistics is often very low among both the general public and users. There are too many concepts hanging in the air and when speaking of “logistics”, everyone immediately thinks of the truck transporting goods from A to B.

Logistics means planning, steering, performing, providing, optimizing, and controlling the processes of transferring goods, data, energy and persons, as well as the required means of transportation.

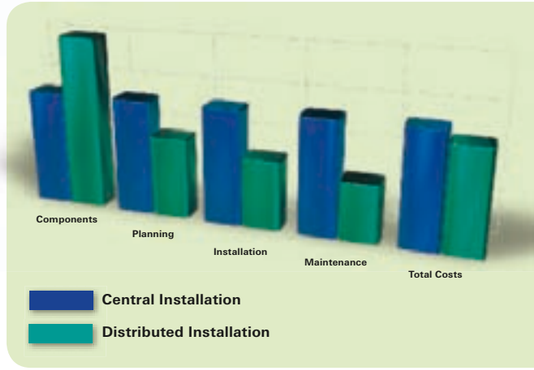
Logistics connects warehousing and transportation. The design of the required transport devices is part of conveyor technology, which is a branch of mechanical engineering.

Plant construction requirements

Logistics facilities resemble ghost trains. Many products start their life cycle with an exciting voyage through conveyor belts, lifting stations, rolling distances, or turnstiles. Countless motors ensure smooth operation and that everything starts and stops at the right time. The priority here is to reliably supply the motors with power and data.

The larger the facility, the more expensive the cabling will be. For star installations with a central control cabinet, thick cable bundles have to be laid and installed in the facilities.

Distributed systems, however, can be installed faster, started up more easily and extended flexibly.



Mainly due to their savings potential from 10–30% of the overall costs, distributed architectures, via a power bus, have become more widely accepted.

✈ AirportLogistics

Applications

Non-stop operation

Airport logistics include any processes, resources, and facilities for the handling of cargo, mail and baggage, as well as the supply and disposal of material in air traffic.
The steadily growing number of passengers, baggage and cargo represents an ever increasing challenge for airports, dispatchers and airlines. Capacities must continuously be adapted to meet these developments.

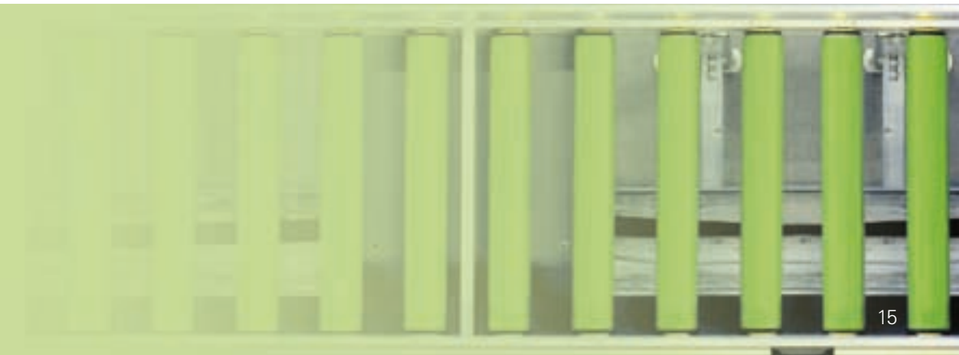
An essential part of meeting the demand is conveyor technology for baggage and cargo. The ***podis***® power bus that forms the basis of power distribution for supplying distributed motor starters has proven itself as extremely reliable. Its compact design and high degree of IP65 protection provide for optimal integration even in areas of the facility where space is at a premium.

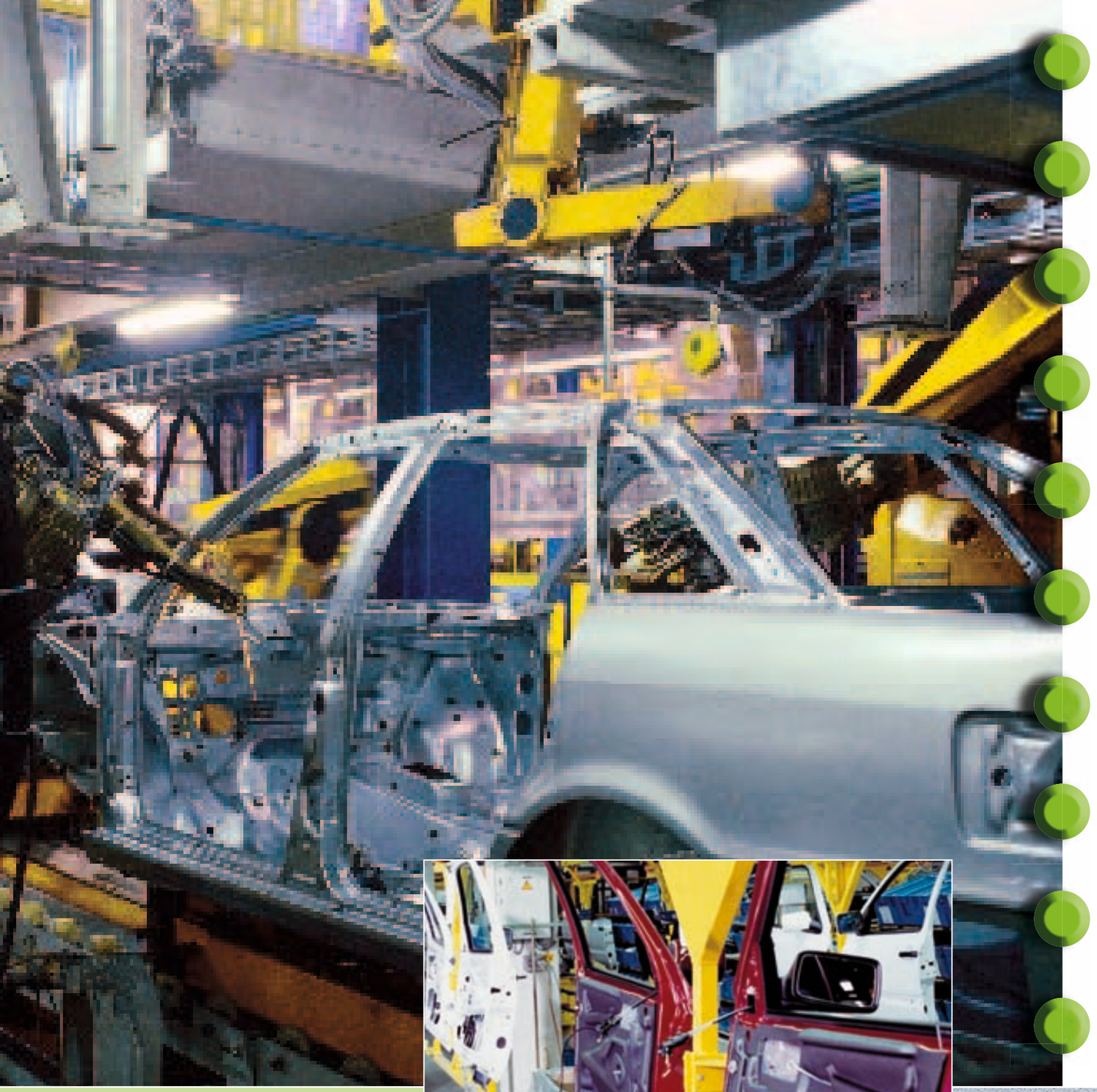
Applications

- Baggage conveyor technology
- Cargo conveyor technology

Features

- Easy project planning
- Fast, faultless installation
- Extends flexibility
- Degree of protection IP65





Automotive

Production and logistics

Applications

Easy setup for fast changeovers and extensions

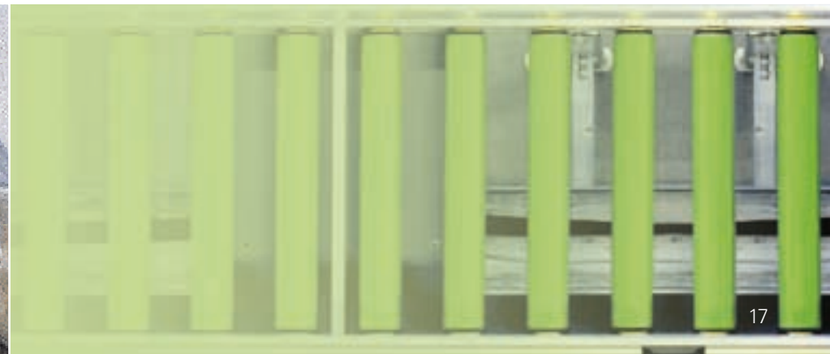
Few industries make as many demanding requirements on the flexibility and availability of production equipment. Frequently, new machines must be installed and started almost immediately. The same applies to the modification or expansion of existing machines.

Wieland Electric power bus solutions consistently prove how advantageous they are. New installations and modifications can be realized with minimal time outlays by using the ***podis***® uncut flat cable power bus or the ***gesis***®IP+ plug-in solution.

Field distributors which are added modularly provide comprehensive on-site diagnosis, ensuring high machine availability.

Applications
- Skid conveyor technology
- Floor conveyor technology
- Roller conveyors
- Carrying chain conveyors
- "Power and Free" Systems

Features
- Cost-optimized system
- Fast, faultless installation
- Flexible, modular system
- High machine availability



Intralogistics

Applications

Warehousing, dispatch and production lines

Flexible system solution

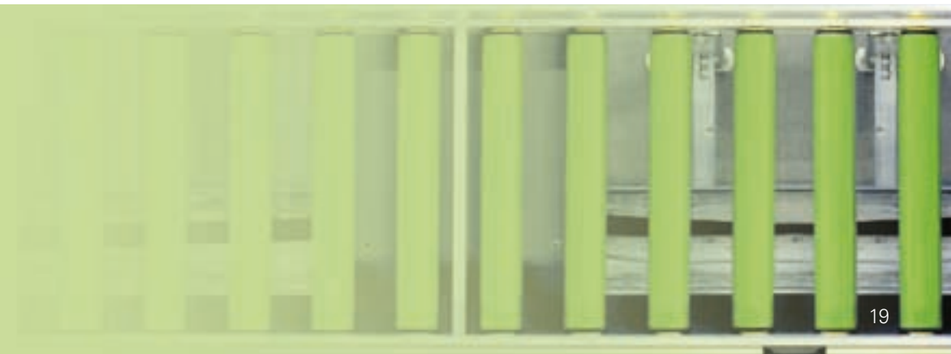
Intralogistics means the organization, implementation and optimization of internal material flows in industrial and trade companies and in public institutions using technical systems and facilities.
Wieland Electric power bus solutions have a flexible design and control the internal material flow within the production process from an individual processing station all the way to logistics nodes.
Whether as a power distribution only, with integrated interface modules for motor-integrated starters, or with direct or reversing starters integrated in the ***podis***®/***gesis***® field distributors – integrated solutions from the control cabinet to the drive can be realized with one system for any field of application.

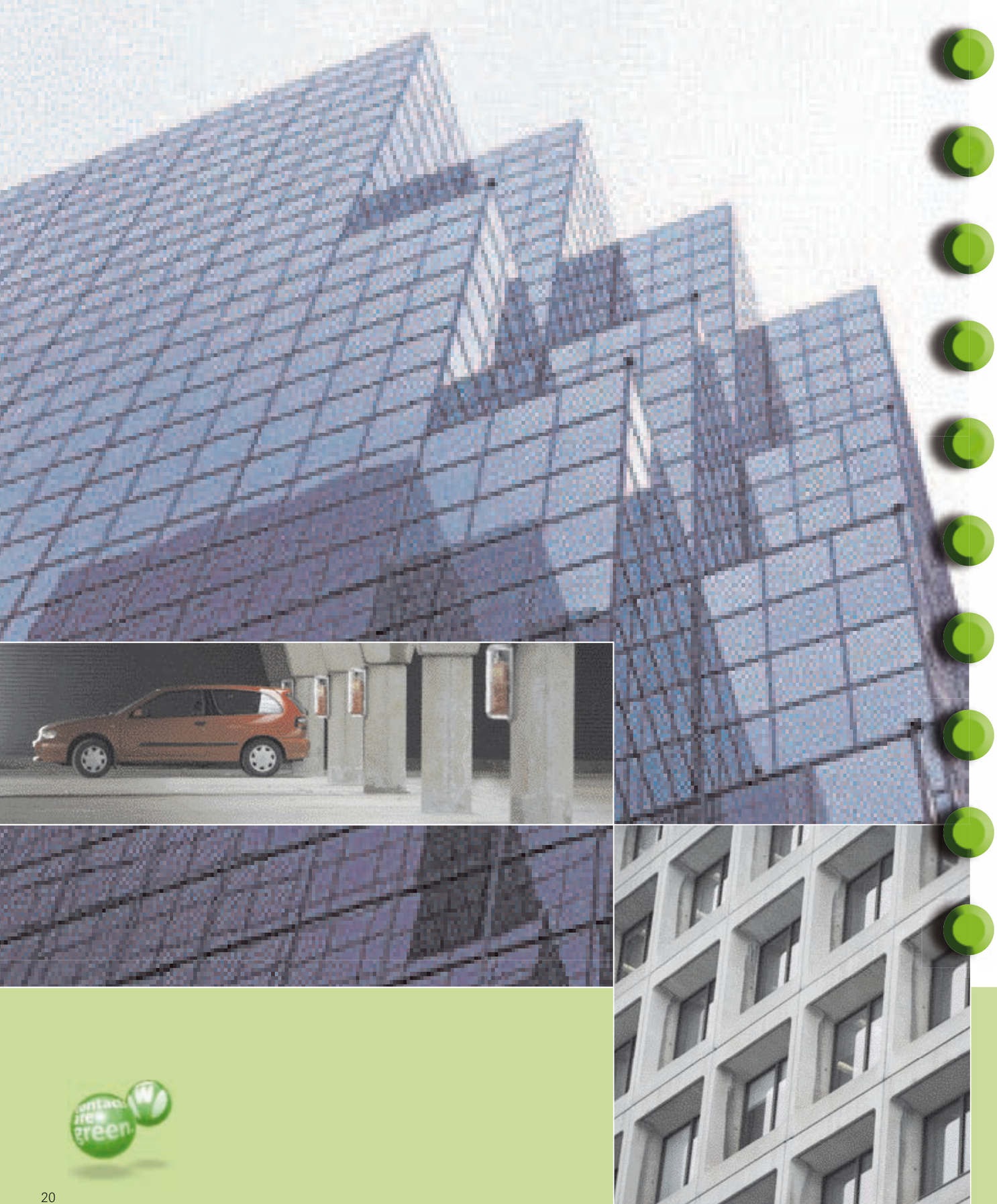
Applications

- Roller conveyors
- Pallet conveyors
- Carrying chain conveyors
- Belt conveyors
- Container transportation
- Package conveyance

Features

- Consistent system solution from the control cabinet to the drive
- Round or flat, plug-in or uncut
- Power bus, field distributor, or motor starter offer modularity and extend system flexibility





Commercial building

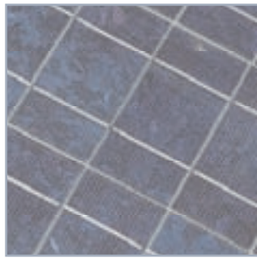
Applications

Functional buildings, renewable energy

Robust power distribution with a high degree of protection

For road tunnels, underground parking garages, hospitals, home improvement stores, or construction site power supply applications. In addition to the classic industrial applications for distributed installation and automation solutions, power bus systems have also found their way into commercial and functional buildings. Their robust design with a high degree of protection, quick installation, and flexible expandability offer considerable advantages.

Installation times can be reduced dramatically using plug-in or uncut flat cable power distribution. With its pre-assembled connecting and interconnecting cables, the combination of the two systems provides maximum flexibility.

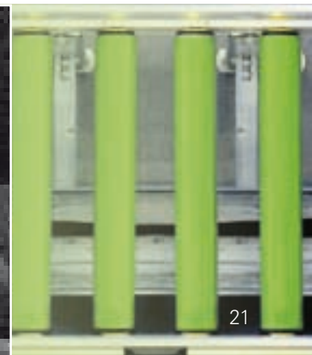


Applications

- Road tunnels
- Underground parking garages
- Hospitals
- Shopping centers
- Construction site power supply

Features

- Robust design
- Quick installation
- Directly plugged lights
- Extends flexibility
- High degree of protection IP65



The right solution for every

Application

As a system provider we respond comprehensively and specifically to our customers' preferences and requirements. Every new application represents a challenge to the system manufacturer.

Which type of automation makes sense - central or decentralized?

Which power bus is suitable for which application - integrated, flat cable or plug-in round cable?

Which drives and motor starters are required - direct / reversing starter or frequency converter; remote or motor-integrated?

How can overload protection and short-circuit protection be realized?

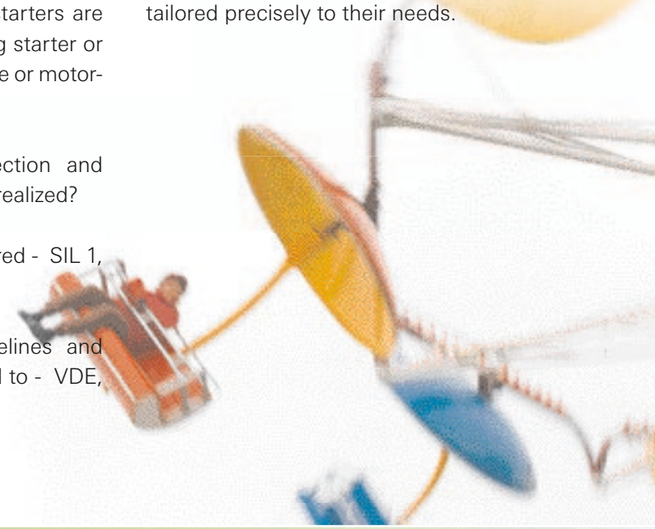
Which safety level is required - SIL 1, 2 or 3, PL a ... e?

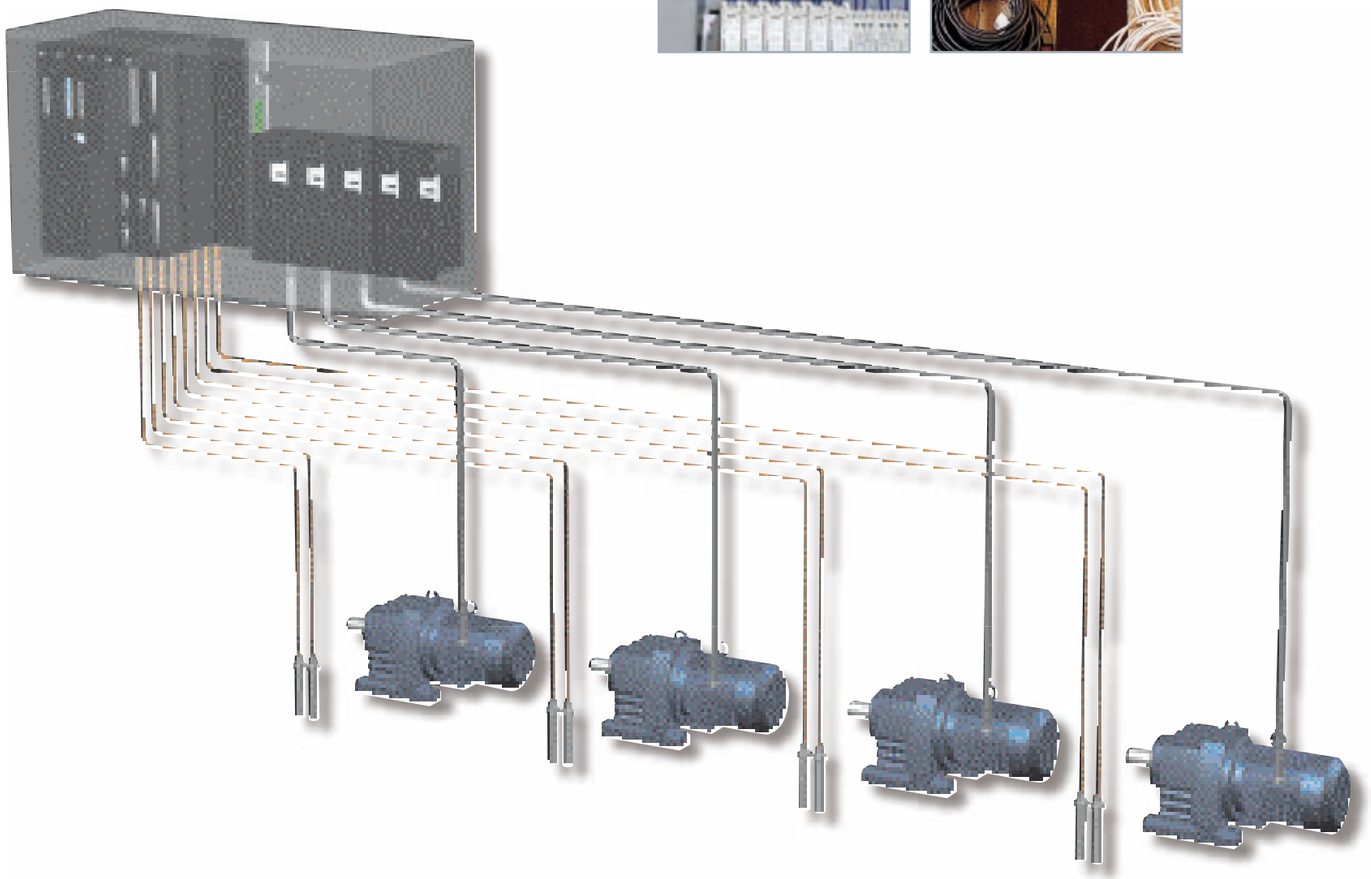
Which international guidelines and standards must be adhered to - VDE, UL ...?

We are ready to assist you in finding the right solution.

With ***podis***®PLAN, your planning tool, you can determine the load of your specific power bus system. Important parameters such as current load, voltage drop, short-circuit current and total power, are determined to ensure optimum feed and the right selection of protection devices.

With our flexibility and experience, we offer users a customized solution, tailored precisely to their needs.





Central Installation

No longer the most cost-efficient solution

Long cable distances, complex installation and difficult retrofitting or extension typically characterize central control cabinet installations.

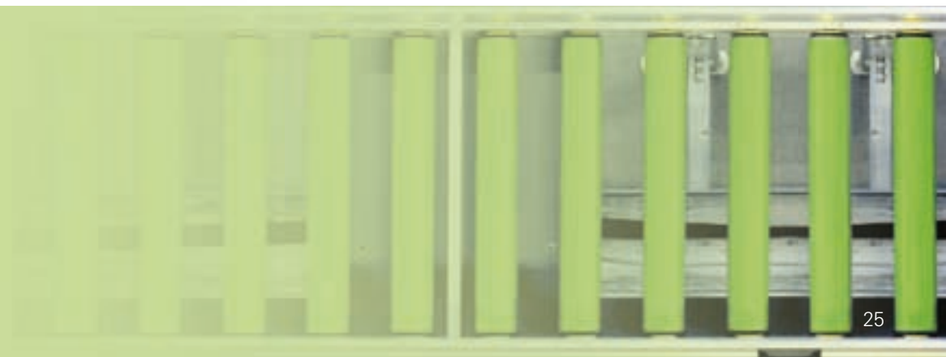
Central

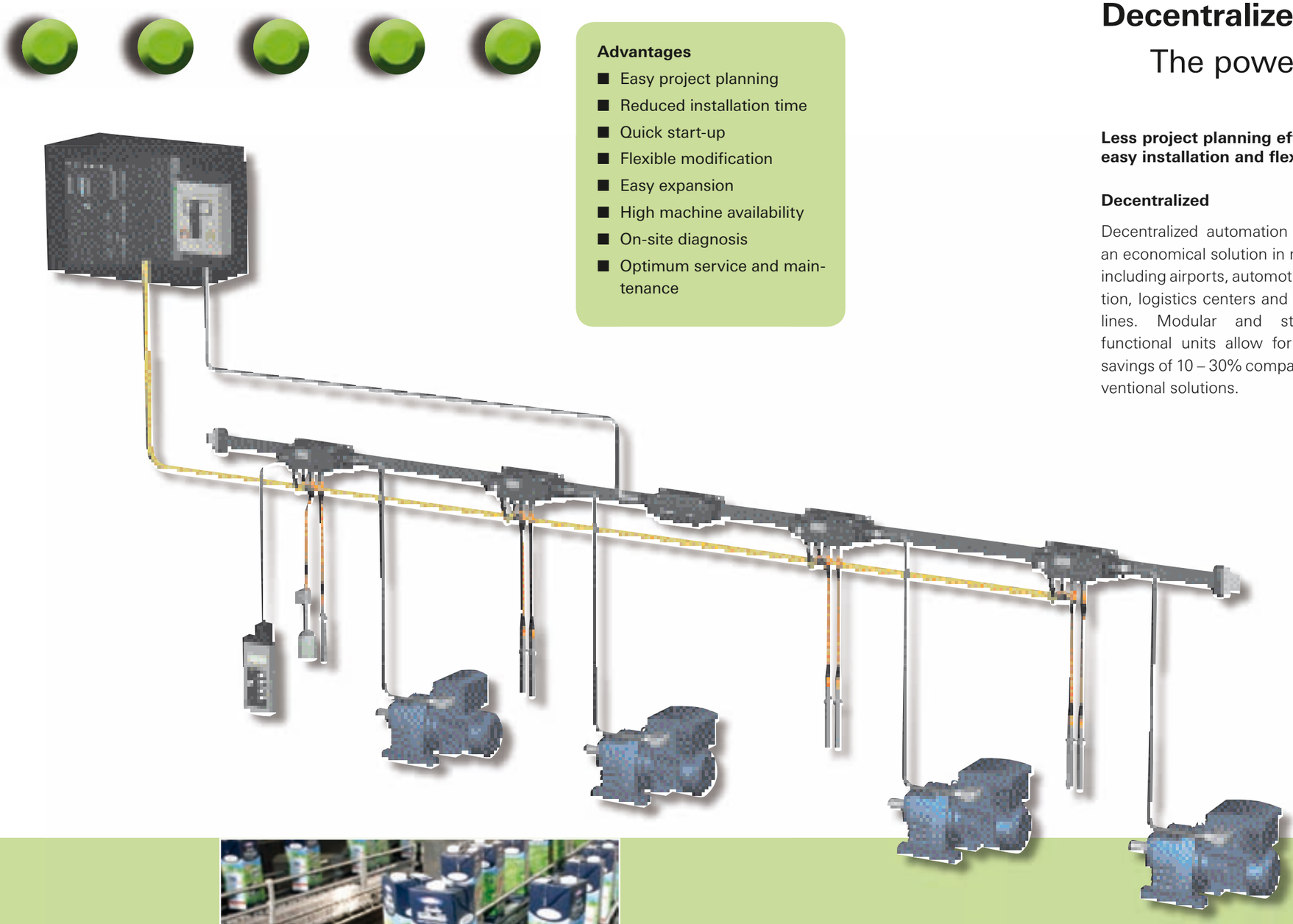
Central installation has been state-of-the-art for many decades. It has served its purpose well in industrial automation. Characteristics include control cabinet panels with control, power distribution, motor circuit breakers, and motor starters or frequency converters. Cables connect the control cabinets to the individual drives and to the system or machine sensors.

In large systems, this leads to full cable trays and complex installations. Additional control cabinet volume is required for future modifications or expansion of system components. In addition, cables will also have to be retrofitted through the entire system.

Features

- Time consuming project planning
- Large control cabinets
- Long cable distances
- Complex cable trays
- Difficult start-up
- Expensive expansion





Advantages

- Easy project planning
- Reduced installation time
- Quick start-up
- Flexible modification
- Easy expansion
- High machine availability
- On-site diagnosis
- Optimum service and maintenance

Decentralized Installation

The power bus solution

Less project planning effort, more space in the control cabinet, easy installation and flexible expansion.

Decentralized

Decentralized automation represents an economical solution in many areas including airports, automotive production, logistics centers and production lines. Modular and standardized functional units allow for total cost savings of 10 – 30% compared to conventional solutions.

The Wieland power bus with ***podis***® und ***gesis***® installation systems is the best choice for developing distributed solutions for drive controls in conveyor systems.
It can be implemented in power distribution only, in field bus activation, or motor starters for switching three-phase asynchronous motors. If required, sensors may also be connected to the drives.

Two systems
with individual advantages

podis® – uncut flat cable

Application

- In conveyor facilities
- In linear-designed facilities
- In widespread structures
- In recurrent functional units

Advantages of *podis*® – uncut flat cable

- No cutting, no stripping
- Quick and easy connection
- Safe contacting
- Few single components
- Easy-to-add circuits wherever needed

gesis® – plug-in round cable

Application

- In conveyor facilities
- In modular-design facilities
- In star or network structures
- Where complex cable routing is an issue

Advantages of *gesis*® – plug-in round cable

- Plug in and go!
- Ideal for modular systems
- Easy creation of network structures
- Few single components
- Can be expanded as required

Integrated Solution
From control cabinet to motor

Integrated system solution

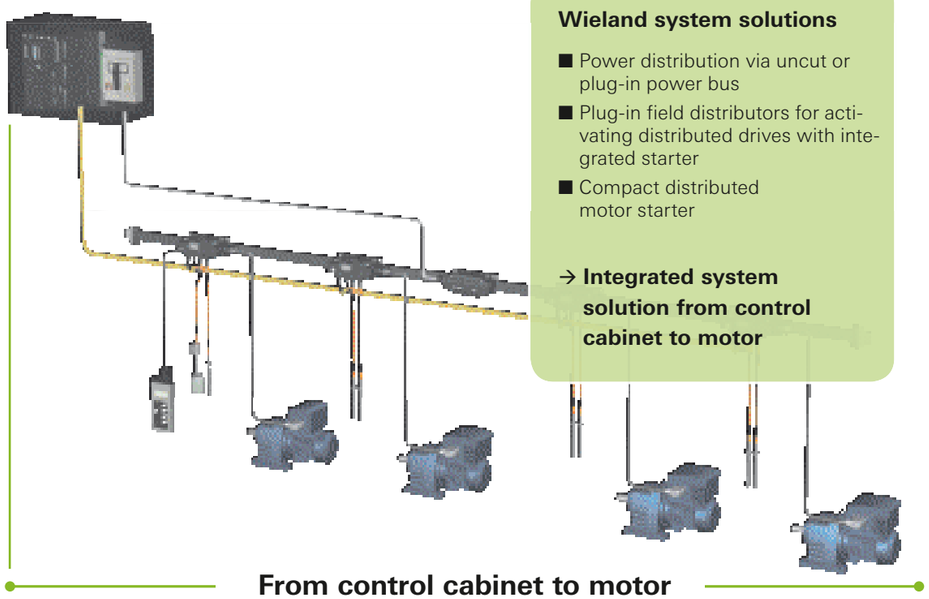
Adapted to the respective application, ***podis***® and ***gesis***® systems offer the right solution for any requirement. We provide an integrated solution from control cabinet to motor for the decentralized automation of conveyor facilities and machines.

- The power bus supplies power to the drives.
- The field distributors transfer power and fieldbus inputs to drives and sensors that connect to them.
- The compact motor starters switch three-phase asynchronous motors.

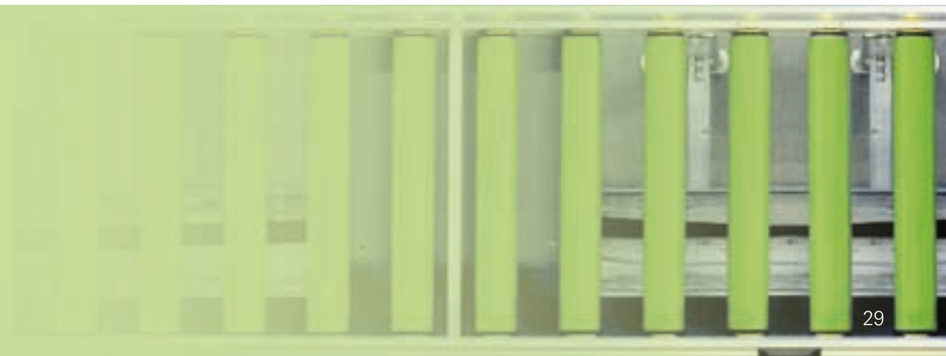
Wieland system solutions

- Power distribution via uncut or plug-in power bus
- Plug-in field distributors for activating distributed drives with integrated starter
- Compact distributed motor starter

→ Integrated system solution from control cabinet to motor

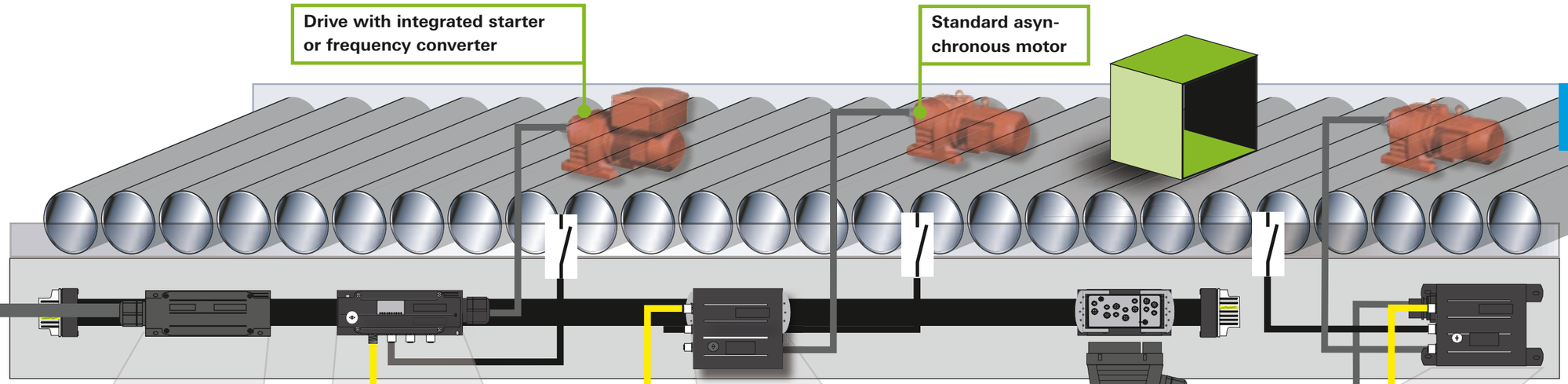


From control cabinet to motor

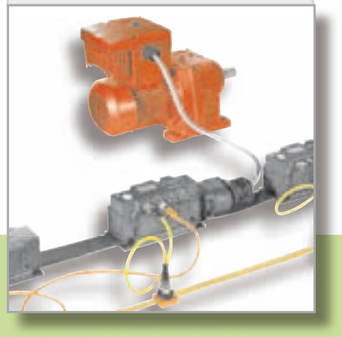


Control cabinet

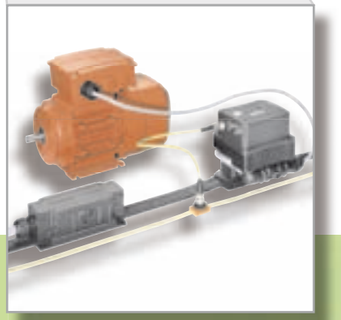
The SYSTEM components



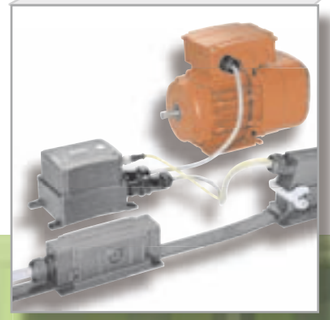
Power bus
podis®CON / ***gesis***®IP+



Field distributors
podis® / ***gesis***®MOT
podis® / ***gesis***®I/O



Motor starter
podis®MCU



Motor starter
gesis®MCU

podis® flat cable power bus

Decentralized power distribution

Power bus

The ***podis***® power bus is the innovative solution in 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.

The power (power and auxiliary power or AS-i) is distributed via an uncut 7-pole flat cable. Pick-off is close to the load at any location via the connecting modules with insulation piercing contacts. Branchings and feeders to motor starter and frequency converter are realized on a fixed or plug-in basis.

podis® power bus solutions reduce installation times and project costs, increasing flexibility for system expansions or future modifications.

podis®**advantages – at a glance:**

- Quick, faultless installation
- No stripping or removing insulation
- No installation waste on the construction site
- Installable branches at any location
- 7-pole flat cable for power and auxiliary power or AS-i
- Pre-assembled cable sets or assembly on site facilitate flexible project planning
- Wide range of accessories

Connecting without **stripping**

Features

- Uncut power bus
- Innovative connecting technology using insulation piercing contacts
- Connecting without stripping
- High current-carrying capacity up to 40A (derating)
- Fixed or plug-in connection modules
- Functional components fitted on a modular basis
- Compact design
- UL approval for international use

Flat cables

Flat cable

Flat cable 7 x 2.5 mm² PVC, fine-stranded,
color-coded wires; external dimensions
approx. 35 x 6 mm; weight approx. 402 g/m,
450/750 V acc. to VDE;
silicone-free, oil and acid-proof;
sheath light gray

Description	Type	Order No
Flat cable	**PVC 7 G 2.5 gray**	00.705.0503.3

Technical data	
Nominal voltage U (V)	750
Nominal cable cross-section (mm²)	2.5
Sheath color	gray
Sheath material	PVC
Number of wires	7
Wire coding	Color
Wire insulation	PVC
Cable width, approx. (mm)	35
Cable height, approx. (mm)	6
Bending radius, static (mm)	100
Flame-resistant	according to EN 50265-2-1
Oil-resistant according to EN 60811-2-1	yes
Halogen-free according to EN 50267-2-2	no
Approvals	

Flat cable

Flat cable 7 x 4 mm² EVA, fine-stranded,
number-coded wires; external dimensions
approx. 35 x 6 mm; weight approx. 440 g/m;
450/750V acc. to VDE;
halogen and silicone-free, oil and acid-proof;
low calorific potential;
sheath black

Description	Type	Order No
Flat cable	**EVA 7 G 4 black**	00.709.0504.1

Technical data	
Nominal voltage U (V)	750
Nominal cable cross-section (mm²)	4
Sheath color	black
Sheath material	Rubber (EVA)
Number of wires	7
Wire coding	Figures
Wire insulation	EVA
Cable width, approx. (mm)	35
Cable height, approx. (mm)	6
Bending radius, static (mm)	18
Flame-resistant	according to EN 50265-2-1
Oil-resistant according to EN 60811-2-1	yes
Halogen-free according to EN 50267-2-2	yes
Approvals	

Flat cable

Flat cable 7 x 4 mm² XLPE, fine-stranded,
number-coded wires ; external dimensions
approx. 35 x 6 mm, 600 V acc. to UL, UL 1277,
halogen-free, low smoke emission,
sheath black

Description	Type	Order No
Flat cable	**XLPE 7 G 4 black**	00.729.0504.1

Technical data	
Nominal voltage U (V)	600
Nominal cable cross-section (mm²)	4
Sheath color	black
Sheath material	XLPE
Number of wires	7
Wire coding	Figures
Wire insulation	XLPE
Cable width, approx. (mm)	35
Cable height, approx. (mm)	6
Bending radius, static (mm)	100
Oil-resistant according to EN 60811-2-1	yes
Halogen-free according to EN 50267-2-2	yes
Approvals	

Accessories see page 94 and following.

Connection modules

Connection module 7 pole

Connection module FCS 4 7 SI FK; 7-pole,
20 A; 277/480 V 4kV/3 (VDE); degree of protection IP65;
penetration contacts; 1 x 4/6 mm², fine-stranded/
single-wired via spring-loaded terminals;
4 break points (2xM20, 2xM25); black

Description	Type	Order No
Connection module	**FCS 4 7 SI FK**	75.018.0051.2

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Penetration connection
Connection type 2	Cage clamp connection
min. rated cross-section, fine-stranded (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	4
Color	black
Degree of protection	IP65
Length (mm)	160
Width (mm)	60
Height (mm)	60
Approvals	-

Distribution module 7 pole

Distribution module FCS 4 7 SA SA; 7-pole,
32 A; 7 x 32 A (VDE) or 7 x 30 A (UL/CSA);
500 V 6kV/3 (VDE) or 600 V (UL/CSA) with two-tier rail
terminal blocks; 5 break points, 3 x ***podis*** flat cable,
2 x round cable M20/M25;
black

Description	Type	Order No
Distribution module	**FCS 4 7 SA SA SW**	75.010.0053.1

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	32
Number of poles	7
Connection type 1	Screw connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	4
Color	black
Degree of protection	IP65
Length (mm)	175
Width (mm)	83
Height (mm)	78
Approvals	

Connection module 2 pole

Connection module FCS 2.5 2 SI SA; 2-pole,
16 A, 230 V / 2.5 kV/3 (VDE); contacted conductors
5, 6 (EVA, XLPE 7x4mm²); red, white (PVC 7x2,5mm²);
penetration contacts; connection of 2.5/4 mm²
fine-stranded/single-wired via screw terminals;
three break points M20;
black

Description	Type	Order No
Connection module	**FCS 2.5 2 SI SA SW**	75.016.2053.1

Technical data	
Rated voltage (V)	50
Rated voltage Auxiliary power (V)	50
Rated current (A)	16
Number of poles	2
Connection type 1	Penetration connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	2.5
Color	black
Degree of protection	IP65
Length (mm)	120
Width (mm)	60
Height (mm)	60
Approvals	-

Connection module 3 pole

Connection module FCS 2.5 3 SI SA; 3-pole,
16 A, 230 V / 2.5 kV/3 (VDE); contacted conductors
4, 5, 6 (EVA, XLPE 7x4mm²); blue, red, white (PVC
7x2,5mm²); penetration contacts; connection of 2.5/4 mm²
fine-stranded/single-wired via screw terminals;
three break points M20;
black

Description	Type	Order No
Connection module	**FCS 2.5 3 SI SA SW**	75.016.3053.1

Technical data	
Rated voltage (V)	50
Rated voltage Auxiliary power (V)	50
Rated current (A)	16
Number of poles	3
Connection type 1	Penetration connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	2.5
Color	black
Degree of protection	IP65
Length (mm)	120
Width (mm)	60
Height (mm)	60
Approvals	-

Plug-in outgoing feeders

Flat cable outgoing feeder – plug-in, 7 pole

Flat cable outgoing feeder, plug-in FCS 4 7 SI BU; 7-pole, 20 A; 277/480 V 4kV/3 (VDE); 600 V (UL, CSA); socket with plastic locking bracket; degree of protection IP65 plugged or with protective cap 07.409.7256.0;
black

Description	Type	Order No
Flat cable outgoing feeder	**FCS 4 7 SI BU SW**	75.015.5153.1

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Penetration connection
Connection type 2	Plug connection
min. rated cross-section, fine-stranded (mm^2)	-
max. rated cross-section, fine-stranded (mm^2)	-
Color	black
Degree of protection	IP65
Length (mm)	120
Width (mm)	60
Height (mm)	55
Approvals	

Plug complete, 7 pole

podisCON plug FCS 4.0 7 ST SA; 7-pole, pins, 20 A, 277/480 V 4kV/3 (VDE); 600 V (UL, CSA); with M25 threaded joint for round cables 9-16 mm; screw connection 4.0 mm^2; degree of protection IP65;
black

Description	Type	Order No
Plug complete	**FCS 4 7 ST SA SO0**	75.015.0151.0

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm^2)	1.5
max. rated cross-section, fine-stranded (mm^2)	4
Color	black
Degree of protection	IP65
Length (mm)	94
Width (mm)	57
Height (mm)	79
Approvals	

Accessories see page 94 and following.

podis®CON

Plug-in outgoing feeders

Plug complete, 7 pole

podisCON plug FCS 4.0 7 ST SA; 7-pole, pins, 20 A, 277/480 V 4kV/3(VDE); 600 V (UL, CSA), with threaded connector M25 for threaded joint; screw connection 4.0 mm^2; degree of protection IP65; black

Description	Type	Order No
Plug complete	**FCS 4 7 ST SA SO2**	75.015.0151.2

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm^2)	1.5
max. rated cross-section, fine-stranded (mm^2)	4
Color	black
Degree of protection	IP65
Length (mm)	94
Width (mm)	57
Height (mm)	79
Approvals	

Mounting case, 7 pole

podisCON mounting plug FCS 4.0 7 ST SA SU; 7-pole, pins, 20 A, 277/480 V 4kV/3 (VDE); 600 V (UL, CSA), for ***podis*** outgoing feeder module 75.015.5153.1 screw connection 4.0 mm^2; degree of protection IP65 in plugged state;
black

Description	Type	Order No
Mounting case	**FCS 4 7 ST SA SU**	75.015.1153.1

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm^2)	1.5
max. rated cross-section, fine-stranded (mm^2)	4
Color	black
Degree of protection	IP65
Length (mm)	113
Width (mm)	57
Height (mm)	39
Approvals	

Pre-assembled connection and interconnecting cables

Connection cable plug – free end

podisCON connection cable FCS 2.5 7 STSA-10; plug assembled with round cable 7 x 2.5 mm², open cable end; stripping length 130 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm; black

Description	Type	Order No
Connection cable	**FCS 2.5 7 STSA - 10**	83.301.1020.1

Technical data	
Rated voltage (V)	400
Rated current (A)	20
Number of poles	7
Cable cross-section (mm²)	2.5
Design side 1	Plug
Design side 2	open end
Cable end treatment	ultrasonically compressed wire ends
Cable type	Ölflex Classic 110
Cable diameter (mm)	11.1
Stripping length (mm)	130
Wire strip length (mm)	7
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	2.0	FCS 2.5 7 STSA - 20	83.301.2020.1
	3.0	FCS 2.5 7 STSA - 30	83.301.3020.1
	4.0	FCS 2.5 7 STSA - 40	83.301.4020.1
	5.0	FCS 2.5 7 STSA - 50	83.301.5020.1
	6.0	FCS 2.5 7 STSA - 60	83.301.6020.1
	7.0	FCS 2.5 7 STSA - 70	83.301.7020.1
	8.0	FCS 2.5 7 STSA - 80	83.301.8020.1
	9.0	FCS 2.5 7 STSA - 90	83.301.9020.1

Interconnecting cable plug – connection module

podisCON interconnecting cable FCS 2.5 7 STSA SIFK 10; plug assembled with round cable 7 x 2.5 mm², connection module; cable length 1000 mm; black

Description	Type	Order No
Interconnecting cable	**FCS 2.5 7 STSA - SIFK10**	83.302.1025.1

Technical data	
Rated voltage (V)	400
Rated current (A)	20
Number of poles	7
Cable cross-section (mm²)	2.5
Design side 1	Plug
Design side 2	Connection module
Cable end treatment	-
Cable type	Ölflex Classic 110
Cable diameter (mm)	11.1
Stripping length (mm)	-
Wire strip length (mm)	-
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	2.0	FCS 2.5 7 STSA SIFK - 20	83.302.2025.1
	3.0	FCS 2.5 7 STSA SIFK - 30	83.302.3025.1
	4.0	FCS 2.5 7 STSA SIFK - 40	83.302.4025.1
	5.0	FCS 2.5 7 STSA SIFK - 50	83.302.5025.1
	6.0	FCS 2.5 7 STSA SIFK - 60	83.302.6025.1
	7.0	FCS 2.5 7 STSA SIFK - 70	83.302.7025.1
	8.0	FCS 2.5 7 STSA SIFK - 80	83.302.8025.1
	9.0	FCS 2.5 7 STSA SIFK - 90	83.302.9025.1

Interconnecting cable connection module – connection module

podisCON interconnecting cable FCS 4 7 SIFK SIFK 10; connection module assembled with round cable 7 x 4 mm², connection module; cable length 1000 mm; black

Description	Type	Order No
Interconnecting cable	**FCS 4 7 SIFK SIFK 10**	83.303.1039.1

Technical data	
Rated voltage (V)	500
Rated current (A)	20
Number of poles	7
Cable cross-section (mm²)	4
Design side 1	Connection module
Design side 2	Connection module
Cable end treatment	-
Cable type	Ölflex Classic 110
Cable diameter (mm)	13.4
Stripping length (mm)	-
Wire strip length (mm)	-
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	2.0	FCS 2.5 7 SIFK SIFK - 20	83.303.2039.1
	3.0	FCS 2.5 7 SIFK SIFK - 30	83.303.3039.1
	4.0	FCS 2.5 7 SIFK SIFK - 40	83.303.4039.1
	5.0	FCS 2.5 7 SIFK SIFK - 50	83.303.5039.1
	6.0	FCS 2.5 7 SIFK SIFK - 60	83.303.6039.1
	7.0	FCS 2.5 7 SIFK SIFK - 70	83.303.7039.1
	8.0	FCS 2.5 7 SIFK SIFK - 80	83.303.8039.1
	9.0	FCS 2.5 7 SIFK SIFK - 90	83.303.9039.1

Pre-assembled connection and interconnecting cables

Connection cable connection module – free end

podisCON connection cable FCS 4 7 SIFK - 10; ***podis*** connection module assembled with round cable 7 x 4 mm², open cable end; stripping length 130 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm; black

Description	Type	Order No
Connection cable	**FCS 4 7 SIFK - 10**	83.304.1030.1

Technical data	
Rated voltage (V)	500
Rated current (A)	20
Number of poles	7
Cable cross-section (mm²)	4
Design side 1	Connection module
Design side 2	open end
Cable end treatment	ultrasonically compressed wire ends
Cable type	Ölflex Classic 110
Cable diameter (mm)	13.4
Stripping length (mm)	130
Wire strip length (mm)	7
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	2.0	FCS 4 7 SIFK - 20	83.304.2030.1
	3.0	FCS 4 7 SIFK - 30	83.304.3030.1
	4.0	FCS 4 7 SIFK - 40	83.304.4030.1
	5.0	FCS 4 7 SIFK - 50	83.304.5030.1
	6.0	FCS 4 7 SIFK - 60	83.304.6030.1
	7.0	FCS 4 7 SIFK - 70	83.304.7030.1
	8.0	FCS 4 7 SIFK - 80	83.304.8030.1
	9.0	FCS 4 7 SIFK - 90	83.304.9030.1

Connection cable connection module with repair switch – free end

podisCON connection module FCS 4 7 SIFK REP 10; with repair switch assembled with round cable Oilflex Classic 110; 7 x 4 mm², open cable end; stripping length 130 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	**FCS 4 7 SIFK REP 10**	83.305.1030.1

Technical data	
Rated voltage (V)	500
Rated current (A)	20
Number of poles	7
Cable cross-section (mm²)	4
Design side 1	Connection module
Design side 2	open end
Cable end treatment	ultrasonically compressed wire ends
Cable type	Ölflex Classic 110
Cable diameter (mm)	13.4
Stripping length (mm)	130
Wire strip length (mm)	7
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	2.0	FCS 4 7 SIFK REP - 20	83.305.2030.1
	3.0	FCS 4 7 SIFK REP - 30	83.305.3030.1
	4.0	FCS 4 7 SIFK REP - 40	83.305.4030.1
	5.0	FCS 4 7 SIFK REP - 50	83.305.5030.1
	6.0	FCS 4 7 SIFK REP - 60	83.305.6030.1
	7.0	FCS 4 7 SIFK REP - 70	83.305.7030.1
	8.0	FCS 4 7 SIFK REP - 80	83.305.8030.1
	9.0	FCS 4 7 SIFK REP - 90	83.305.9030.1

More assemblies on request.

Accessories see page 94 and following.

podis® is international

podis® has established itself as a power bus system in distributed installation and distributed automation, in a broad spectrum of industry sectors.

podis® meets international IEC regulation requirements – an essential prerequisite for international use.

Therefore, the ***podis***® system is well known in many countries worldwide and is used in many industry sectors for countless applications.

Whether in automotive, airport or intra-logistics, machine and system engineering, food & beverage, or building and tunnel installation (to mention but a few), electrical connections are realized everywhere using ***podis***® power bus solutions.

However, each country regulates and implements its own installation guidelines and practices. In the U.S., for example, this is done using the **NEC** (National Electric Code). The **NEC** is one of the most used documents for electrical systems installation regulations. The **NEC** regulations are published by the National Fire Protection Association (NFPA). Therefore, products shipped to the U.S. must be tested and approved by **UL** (Underwriters Laboratories), the leading testing and certification institute.
podis® offers the right components for your power bus system.

On the following pages, you will find the ***podis***® products typical for your country!

With these, you will gain planning diversity and reliability, adapted to comply with any applicable regulations and practices.

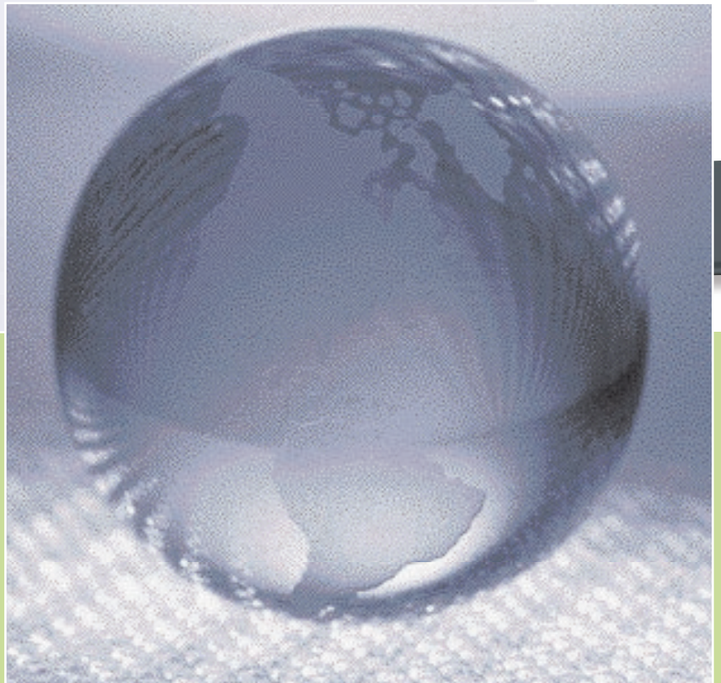
As an international system, ***podis***® can also be used within the scope of these national regulations. For example, a UL 1277-approved XLPE cable is available as a power bus cable for exposed run or open wiring applications. Lapp "Ölflex Control TM" cables are assembled as connection or interconnecting cables.

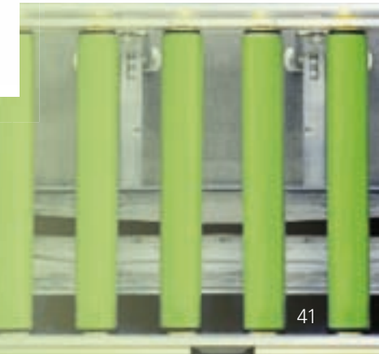
Specific installation practices of the country in question are taken into account to make product ranges suitable for their intended location.

Note

→ **In accordance with national standards, national installation regulations must be complied with when using *podis*® products.**

Regionally-specific products





Flat cables

Regionally-specific products

Flat cable XLPE 7G4 black

Flat cable 7 x 4 mm² XLPE, fine-stranded, number-coded wires; external dimensions approx. 35 x 6 mm, 600 V acc. to UL, UL 1277, halogen-free, low smoke emission, sheath black

Description	Type	Order No
Flat cable	**XLPE 7G4 black**	00.729.0504.1

Technical data	
Nominal voltage U (V)	600
Nominal cable cross-section (AWG)	12
Sheath color	black
Sheath material	XLPE
Number of wires	7
Wire coding	Figures
Wire insulation	XLPE
Cable width, approx. (mm)	35
Cable height, approx. (mm)	6
Bending radius, static (mm)	100
Norm	UL 1277
Oil-resistant according to EN 60811-2-1	yes
Halogen-free according to EN 50267-2-2	yes
Approvals	

Plug-in outgoing feeders

Plug complete 7 pole

podisCON plug FCS 4.0 7 ST SA; 7-pole, pins, 20 A, 277/480 V 4kV/3 (VDE); 600 V (UL, CSA); with M25 threaded joint for round cables 9-16 mm; screw connection 4.0 mm²; degree of protection IP65; black

Description	Type	Order No
Plug complete	**FCS 4 7 ST SA SO0**	75.015.0151.0

Technical data	
Nominal voltage (V)	600
Nominal current (A)	16
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. Rated cross-section, fine-stranded (AWG)	14
max. Rated cross-section, fine-stranded (AWG)	10
Color	black
Degree of protection	IP65
Length (mm)	94
Width (mm)	57
Height (mm)	79
Approvals	

Plug complete 7 pole

podisCON Stecker FCS 4.0 7 ST SA; 7-pole, pins, 20 A, 277/480 V 4kV/3(VDE); 600 V (UL, CSA), with threaded connector M25 for threaded joint; screw connection 4.0 mm²; degree of protection IP65; black

Description	Type	Order No
Plug complete	**FCS 4 7 ST SA SO2**	75.015.0151.2

Technical data	
Nominal voltage (V)	600
Nominal current (A)	16
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. Rated cross-section, fine-stranded (AWG)	14
max. Rated cross-section, fine-stranded (AWG)	10
Color	black
Degree of protection	IP65
Length (mm)	94
Width (mm)	57
Height (mm)	79
Approvals	

Mounting case 7 pole

podisCON mounting plug FCS 4.0 7 ST SA SU; 7-pole, pins, 20 A, 277/480 V 4kV/3 (VDE); 600 V (UL, CSA), for ***podis*** outgoing feeder module 75.015.5153.1 screw connection 4.0 mm²; degree of protection IP65 in plugged state; black

Description	Type	Order No
Mounting case	**FCS 4 7 ST SA SU**	75.015.1153.1

Technical data	
Nominal voltage (V)	600
Nominal current (A)	16
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. Rated cross-section, fine-stranded (AWG)	14
max. Rated cross-section, fine-stranded (AWG)	10
Color	black
Degree of protection	IP65
Length (mm)	113
Width (mm)	57
Height (mm)	39
Approvals	

Pre-assembled connection and interconnecting cables

Regionally-specific products

Connection cable plug – free end

podisCON connection cable FCS AWG14 7 STSA-10; plug assembled with round cable "Ölflex Control TM 7G AWG 14"; open cable end; stripping length 130 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	**FCS AWG14 7 STSA - 10**	83.301.1040.1

Technical data	
Nominal voltage (V)	600
Nominal current (A)	16
Cable cross-section (AWG)	14
Number of poles	7
Design side 1	Plug
Design side 2	open end
Cable end treatment	ultrasonically compressed wire ends
Cable type	Ölflex Control TM
Cable diameter (mm)	11.1
Stripping length (mm)	130
Wire strip length (mm)	7
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	2.0	FCS AWG14 7 STSA - 20	83.301.2040.1
	3.0	FCS AWG14 7 STSA - 30	83.301.3040.1
	4.0	FCS AWG14 7 STSA - 40	83.301.4040.1
	5.0	FCS AWG14 7 STSA - 50	83.301.5040.1
	6.0	FCS AWG14 7 STSA - 60	83.301.6040.1
	7.0	FCS AWG14 7 STSA - 70	83.301.7040.1
	8.0	FCS AWG14 7 STSA - 80	83.301.8040.1
	9.0	FCS AWG14 7 STSA - 90	83.301.9040.1

More assemblies on request

Connection modules

Distribution module 7 pole

Distribution module FCS 4 7 SA SA; 7-pole, 32 A; 7 x 32 A (VDE) or 7 x 30 A (UL/CSA); 500 V 6kV/3 (VDE) or 600 V (UL/CSA) with two-tier rail terminal blocks; 5 break points, 3 x ***podis*** flat cable, 2 x round cable M20/M25; black

Description	Type	Order No
Distribution module	**FCS 4 7 SA SA SW**	75.010.0053.1

Technical data	
Nominal voltage (V)	600
Nominal current (A)	30
Number of poles	7
Connection type 1	Screw connection
Connection type 2	Screw connection
min. Rated cross-section, fine-stranded (AWG)	12
max. Rated cross-section, fine-stranded (AWG)	12
Color	black
Degree of protection	IP65
Length (mm)	175
Width (mm)	83
Height (mm)	78
Approvals	

Flat cable outgoing feeder, plug-in, 7 pole

Flat cable outgoing feeder, plug-in FCS 4 7 SI BU; 7-pole, 20 A; 277/480 V 4kV/3 (VDE); 600 V (UL, CSA); socket with plastic locking bracket; degree of protection IP65 plugged or with protective cap 07.409.7256.0; black

Description	Type	Order No
Flat cable outgoing feeder	**FCS 4 7 SI BU SW**	75.015.5153.1

Technical data	
Nominal voltage (V)	600
Nominal current (A)	16
Number of poles	7
Connection type 1	Penetration connection
Connection type 2	Plug connection
min. Rated cross-section, fine-stranded (AWG)	-
max. Rated cross-section, fine-stranded (AWG)	-
Color	black
Degree of protection	IP65
Length (mm)	120
Width (mm)	60
Height (mm)	55
Approvals	

gesis® The **plug-IN**

Electrical installation

also for industrial use

The issue

Whether single applications or complex systems – the task is the same: Electrical loads need to be interconnected quickly and safely. Conventional installations do not meet this requirement.
Cumbersome trimming of cables, stripping, removing insulation and the final connection of components is not only very time consuming, but frequently leads to faults. The participation of different trades (mechanical and electrical) in the installation of a system also prevents rapid setup – not only during initial installation. The very same installation steps are repeated during system expansions, routine maintenance and replacement of defective devices.

The solution

As a complete installation system, ***gesis***®IP+ provides significant reduction of installation time. The components, fully assembled at the factory, only need to be plugged together in the field – no trimming, stripping or removing insulation.
This substantially reduces operational downtime. In case of defective devices or routine maintenance, loads can rapidly be disconnected from power. Another advantage is the fact that technicians no longer need to open the device for electrical connection. Faulty assembly is thereby eradicated, especially with water-protected devices.

Applications

- Motor connection (3~)
- Power distribution 250/400 V~
- Voltage supply up to 50 V, bus
- Workplace lighting
- Lacquer inspection

gesis®IP+ – The plug-in round cable

Power bus

Cost reduction

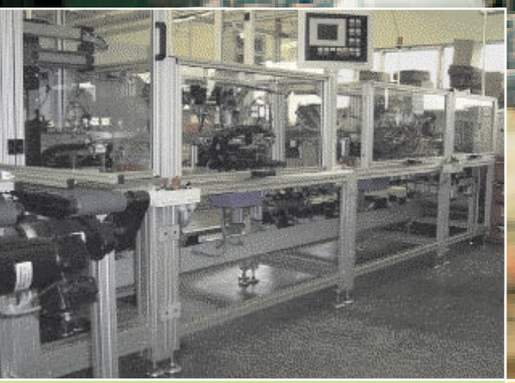
Plug connections in system components are frequently oversized. Up to now, this was partly due to a lack of alternatives. However, this is exactly where a huge savings potential lies. Here, the RST system relies on completely pre-assembled components that only need to be plugged together on-site.

Pre-fabrication at independent locations

The ***gesis***®IP+ installation system opens up a whole world of new opportunities. Entire system components can be fully pre-assembled and tested, independent of their later destination. The individual modules then only need to be connected to each other on-site.

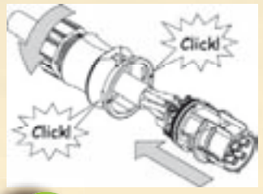
Simply turn electrical devices into plug-in devices

Device connections serve as interfaces between electrical loads and the ***gesis***®IP+ installation system. Integrating the device connection makes the load plug-in, which means it can be integrated into the installation as desired.
The device connections are equipped with standard threads (M16 to M25) and can, therefore, be replaced by conventional connections without difficulty.

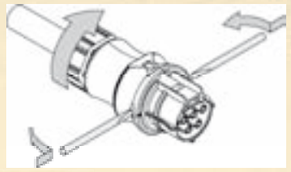


gesis® – Plug in and go

1 **Connect conductor**

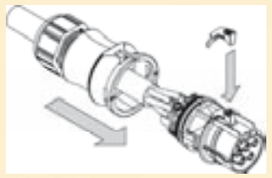


2 **Close ...**



3 **or open ...**

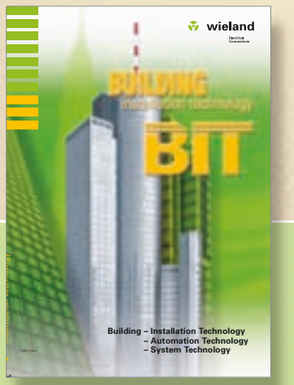
4 **plug in or lock – ready!**



5 **Unlock plug connection**

Advantages

- Touch-protected
- Neat cable run
- Easy extension or modification
- Reusable
- Mechanically coded
- Integrated locks and strain reliefs



For further information please see the "Building installation technology" general catalog.

Order No. 0160.0

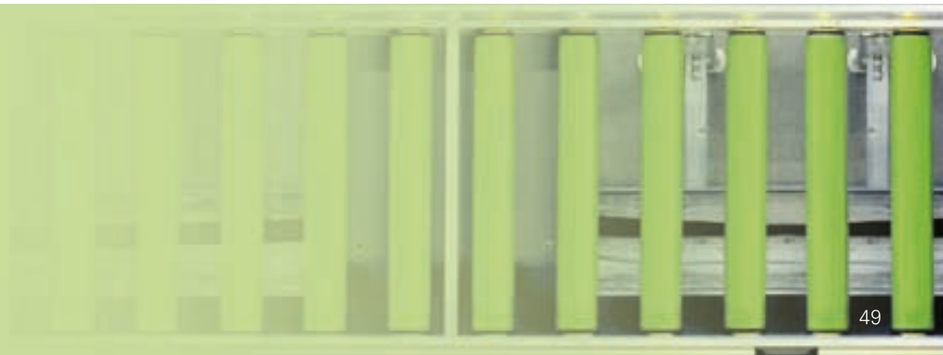
gesis® for unlimited Options

Choosing a plug-in installation system gives you all the advantages of state-of-the-art electrical installation.

The wide range of system components allow you to use any type of installation from the distributor to the demand point simply by plugging the components together. Following the plug-and-play principle, initial installations - but also extensions and supplements – can be realized quickly, avoiding errors, while reliably securing the protective degree of the system.
In addition, different applications can be clearly separated via mechanical coding. The different colors of the pluggable connectors quickly show which connections belong together. Incorrect plug connections are virtually impossible.

Features

- Plug-in round cable power bus for distributed automation solutions
- Fast and reliable plug-in connections
- 5-pole for power and 2-/4-pole for 24 V or AS-i/ 24 V
- 2-, 3-, 4-, or 5-pole
- Color-coded according to the voltage range



Pluggable connectors

Socket part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in socket part, 250/400 V, 20 A, for cable diameter 6-10 mm, black color coding, black housing color; for rigid, for fine-stranded and multi-stranded cables from 0.75 to 4 mm²; unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Socket part	**RST20I5S B1 ZR1 SW**	96.051.4053.1

Technical data	
Rated voltage	400 V
Rated current (A)	20 A
Design	Socket
Connection type	Screw connection
Number of poles	5
Cable diameter	6-10 mm
Approvals	

Socket part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in socket part, 250/400 V, 20 A, for cable diameter 10-14 mm, black color coding, black housing color; for rigid, for fine-stranded and multi-stranded cables from 0.75 to 4 mm²; unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Socket part	**RST20I5S B1 ZR2 SW**	96.051.4153.1

Technical data	
Rated voltage	400 V
Rated current (A)	20 A
Design	Socket
Connection type	Screw connection
Number of poles	5
Cable diameter	10-14 mm
Approvals	

Socket part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in socket part, 250/400 V, 20 A, for cable diameter 13-18 mm, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables from 0,75 to 4 mm²; unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Socket part	**RST20I5S B1 ZR3 SW**	96.051.4553.1

Technical data	
Rated voltage	400 V
Rated current (A)	20 A
Design	Socket
Connection type	Screw connection
Number of poles	5
Cable diameter	13-18 mm
Approvals	

Plug part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in plug part, 250/400 V, 20 A, for cable diameter 10-14 mm, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables from 0.75 to 4 mm²; unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Plug part	**RST20I5S S1 ZR1 V SW**	96.052.4053.1

Technical data	
Rated voltage	400 V
Rated current (A)	20 A
Design	Plug
Connection type	Screw connection
Number of poles	5
Cable diameter	6-10 mm
Approvals	

Plug part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in plug part, 250/400 V, 20 A, for cable diameter 10-14 mm, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables from 0.75 to 4 mm²; unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Plug part	**RST20I5S S1 ZR2 V SW**	96.052.4153.1

Technical data	
Rated voltage	400 V
Rated current (A)	20 A
Design	Plug
Connection type	Screw connection
Number of poles	5
Cable diameter	10-14 mm
Approvals	

Plug part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in plug part, 250/400 V, 20 A, for cable diameter 13-18 mm, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables up to 4 mm²; unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Plug part	**RST20I5S S1 ZR3 V SW**	96.052.4553.1

Technical data	
Rated voltage	400 V
Rated current (A)	20 A
Design	Plug
Connection type	Screw connection
Number of poles	5
Cable diameter	13-18 mm
Approvals	

Pluggable connectors

Socket part for installation

Device connection M25, standard, RST 20i5, 5 pole, screw-in socket part, 250/400 V, 20 A, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables of 0.75 – 4 mm², 1 connection per pole, with locking, fixed position ensured by flattening of the thread, with thread M25 x 1.5, threaded joint (external), UL/CSA.

Description	Type	Order No
Socket part	**RST20I5S B1 M01 SW**	96.051.5053.1

Technical data	
Rated voltage	400 V
Rated current (A)	20 A
Design	Socket
Connection type	Screw connection
Number of poles	5
Thread for housing feedthrough	M25
Approvals	

Plug part for installation

Device connection M25, standard, RST 20i5, 5 pole, screw-in plug part, 250/400 V, 20 A, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables of 0.75 – 4 mm², 1 connection per pole, with locking, fixed position ensured by flattening of the thread, with thread M25 x 1.5, threaded joint (external), UL/CSA.

Description	Type	Order No
Plug part	**RST20I5S S1 M01V SW**	96.052.5053.1

Technical data	
Rated voltage	400 V
Rated current (A)	20 A
Design	Plug
Connection type	Screw connection
Number of poles	5
Thread for housing feedthrough	M25
Approvals	

Socket part with strain relief

Pluggable connector RST 20i4, 4 pole, screw-in socket part, 50 V, 20 A, for cable diameter 6-10 mm, brown color coding, black housing color; for rigid, for fine-stranded and multi-stranded cables from 0.75 to 4 mm²; unassembled with cable screw connection and locking

Description	Type	Order No
Socket part	**RST20I4S B1 ZR1SVL BR01**	96.041.4051.4

Technical data	
Rated voltage	50 V
Rated current (A)	20 A
Design	Socket
Connection type	Screw connection
Number of poles	4
Cable diameter	6-10 mm
Approvals	-

Plug part with strain relief

Pluggable connector RST 20i4, 4 pole, screw-in plug part, 50 V, 20 A, for cable diameter 6-10 mm, brown color coding, black housing color; for rigid, for fine-stranded and multi-stranded cables from 0.75 to 4 mm²; unassembled with cable screw connection and locking

Description	Type	Order No
Plug part	**RST20I4S S1 ZR1SVL BR01**	96.042.4051.4

Technical data	
Rated voltage	50 V
Rated current (A)	20 A
Design	Plug
Connection type	Screw connection
Number of poles	4
Cable diameter	6-10 mm
Approvals	-

Socket part for installation

Device connection M25, standard, RST 20i4, 4 pole, screw-in socket part, 50 V, 20 A, brown color coding, brown housing color; for rigid, fine-stranded and multi-stranded cables of 0.75 – 4 mm², 1 connection per pole, with locking,fixed position ensured by flattening of the thread, with thread M25 x 1.5, threaded joint (external)

Description	Type	Order No
Socket part	**RST20I4S B1 M01 L BR01**	96.041.5051.4

Technical data	
Rated voltage	50 V
Rated current (A)	20 A
Design	Socket
Connection type	Screw connection
Number of poles	4
Thread for housing feedthrough	M25
Approvals	-

Plug part for installation

Device connection M25, standard, RST 20i4, 4 pole, screw-in plug part, 50 V, 20 A, brown color coding, brown housing color; for rigid, fine-stranded and multi-stranded cables of 0.75 – 4 mm², 1 connection per pole, with locking,fixed position ensured by flattening of the thread, with thread M25 x 1.5, threaded joint (external)

Description	Type	Order No
Plug part	**RST20I4S S1 M01 L BR01**	96.042.5051.4

Technical data	
Rated voltage	50 V
Rated current (A)	20 A
Design	Plug
Connection type	Screw connection
Number of poles	4
Thread for housing feedthrough	M25
Approvals	-

Assembled cables

Interconnecting cable plug – socket

Round pluggable connector, assembled with cable "Ölflex Classic 110 5G2.5", socket on one side / plug on the other, cable cross-section: 2.5 mm², color: Pluggable connector black, cable gray, system: RST 20/5KS BS 25O 10SW total length: 1 m

Description	Type	Order No
Assembled cable	**RST20I5KSBS 25O 10SW**	96.453.1080.1
Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		5
Cable cross-section (mm²)		2.5
Design side 1		Plug
Design side 2		Socket
Cable end treatment		-
Cable type		Ölflex Classic 110 5G2.5
Cable diameter (mm)		10
Stripping length (mm)		-
Wire strip length (mm)		-
Cable length (m)		1.0
Approvals		

Versions		Type	Order No
Cable length (m)	2.0	RST20I5KSBS 25O 20SW	96.453.2080.1
	3.0	RST20I5KSBS 25O 30SW	96.453.3080.1
	4.0	RST20I5KSBS 25O 40SW	96.453.4080.1
	5.0	RST20I5KSBS 25O 50SW	96.453.5080.1
	6.0	RST20I5KSBS 25O 60SW	96.453.6080.1
	7.0	RST20I5KSBS 25O 70SW	96.453.7080.1
	8.0	RST20I5KSBS 25O 80SW	96.453.8080.1
	9.0	RST20I5KSBS 25O 90SW	96.453.9080.1

Connection cable socket – free end

Round pluggable connector, assembled with cable "Ölflex Classic 110 5G2.5", socket on one side / free end on the other, cable cross-section: 2.5 mm², color: Pluggable connector black, cable gray, system: RST 20/5KS B- 25O 10SW, total length: 1 m

Description	Type	Order No
Assembled cable	**RST20I5KSB- 25O 10SW**	96.453.1083.1
Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		5
Cable cross-section (mm²)		2.5
Design side 1		Socket
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		Ölflex Classic 110 5G2.5
Cable diameter (mm)		10
Stripping length (mm)		35
Wire strip length (mm)		9
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	2.0	RST20I5KSB- 25O 20SW	96.453.2083.1
	3.0	RST20I5KSB- 25O 30SW	96.453.3083.1
	4.0	RST20I5KSB- 25O 40SW	96.453.4083.1
	5.0	RST20I5KSB- 25O 50SW	96.453.5083.1
	6.0	RST20I5KSB- 25O 60SW	96.453.6083.1
	7.0	RST20I5KSB- 25O 70SW	96.453.7083.1
	8.0	RST20I5KSB- 25O 80SW	96.453.8083.1
	9.0	RST20I5KSB- 25O 90SW	96.453.9083.1

Connection cable plug – free end

Round pluggable connector, assembled with cable "Ölflex Classic 110 5G2.5", plug on one side / free end on the other, cable cross-section: 2.5 mm², color: Pluggable connector black, cable gray, system: RST 20/5KS -S 25O 10SW, total length: 1 m

Description	Type	Order No
Assembled cable	**RST20I5KS-S 25O 10SW**	96.453.1084.1
Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		5
Cable cross-section (mm²)		2.5
Design side 1		Plug
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		Ölflex Classic 110 5G2.5
Cable diameter (mm)		10
Stripping length (mm)		35
Wire strip length (mm)		9
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	2.0	RST20I5KS-S 25O 20SW	96.453.2084.1
	3.0	RST20I5KS-S 25O 30SW	96.453.3084.1
	4.0	RST20I5KS-S 25O 40SW	96.453.4084.1
	5.0	RST20I5KS-S 25O 50SW	96.453.5084.1
	6.0	RST20I5KS-S 25O 60SW	96.453.6084.1
	7.0	RST20I5KS-S 25O 70SW	96.453.7084.1
	8.0	RST20I5KS-S 25O 80SW	96.453.8084.1
	9.0	RST20I5KS-S 25O 90SW	96.453.9084.1

Assembled cables

Connection cable plug – socket for AS-i/ 24 V

Round pluggable connector, assembled with cable PVC 4X2.5, brown, socket on one side / plug on the other, cable cross-section: 2.5 mm², color: Pluggable connector brown, cable brown, system: RST 20I4KSBS 25OL 10BR01, total length: 1 m

Description	Type	Order No
Assembled cable	**RST20I4KSBS 25OL 10BR01**	96.443.1082.4
Technical data		
Rated voltage (V)		50
Rated current (A)		20
Number of poles		4
Cable cross-section (mm²)		2.5
Design side 1		Plug
Design side 2		Socket
Cable end treatment		-
Cable type		PVC 4X2.5
Cable diameter (mm)		9
Stripping length (mm)		-
Wire strip length (mm)		-
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	2.0	RST20I4KSBS 25OL 20BR01	96.443.2082.4
	3.0	RST20I4KSBS 25OL 30BR01	96.443.3082.4
	4.0	RST20I4KSBS 25OL 40BR01	96.443.4082.4
	5.0	RST20I4KSBS 25OL 50BR01	96.443.5082.4
	6.0	RST20I4KSBS 25OL 60BR01	96.443.6082.4
	7.0	RST20I4KSBS 25OL 70BR01	96.443.7082.4
	8.0	RST20I4KSBS 25OL 80BR01	96.443.8082.4
	9.0	RST20I4KSBS 25OL 90BR01	96.443.9082.4

Connection cable socket – free end for AS-i/ 24 V

Round pluggable connector, assembled with cable PVC 4X2.5, brown, socket on one side / free end on the other, cable cross-section: 2.5 mm², color: Pluggable connector brown, cable brown, system: RST 20I4KSB- 25OL 10BR01, total length: 1 m

Description	Type	Order No
Assembled cable	**RST20I4KSB- 25OL 10BR01**	96.443.1087.4
Technical data		
Rated voltage (V)		50
Rated current (A)		20
Number of poles		4
Cable cross-section (mm²)		2.5
Design side 1		Socket
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		PVC 4X2.5
Cable diameter (mm)		9
Stripping length (mm)		35
Wire strip length (mm)		9
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	2.0	RST20I4KSB- 25OL 20BR01	96.443.2087.4
	3.0	RST20I4KSB- 25OL 30BR01	96.443.3087.4
	4.0	RST20I4KSB- 25OL 40BR01	96.443.4087.4
	5.0	RST20I4KSB- 25OL 50BR01	96.443.5087.4
	6.0	RST20I4KSB- 25OL 60BR01	96.443.6087.4
	7.0	RST20I4KSB- 25OL 70BR01	96.443.7087.4
	8.0	RST20I4KSB- 25OL 80BR01	96.443.8087.4
	9.0	RST20I4KSB- 25OL 90BR01	96.443.9087.4

Connection cable plug – free end for AS-i/ 24 V

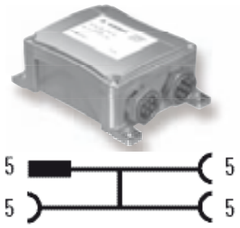
Round pluggable connector, assembled with cable PVC 4X2.5, brown, plug on one side / free end on the other, cable cross-section: 2.5 mm², color: Pluggable connector brown, cable brown, system: RST 20I4KS-S 25OL 10BR01, total length: 1 m

Description	Type	Order No
Assembled cable	**RST20I4KS-S 25OL 10BR01**	96.443.1088.4
Technical data		
Rated voltage (V)		50
Rated current (A)		20
Number of poles		4
Cable cross-section (mm²)		2.5
Design side 1		Plug
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		PVC 4X2.5
Cable diameter (mm)		9
Stripping length (mm)		35
Wire strip length (mm)		9
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	2.0	RST20I4KS-S 25OL 20BR01	96.443.2088.4
	3.0	RST20I4KS-S 25OL 30BR01	96.443.3088.4
	4.0	RST20I4KS-S 25OL 40BR01	96.443.4088.4
	5.0	RST20I4KS-S 25OL 50BR01	96.443.5088.4
	6.0	RST20I4KS-S 25OL 60BR01	96.443.6088.4
	7.0	RST20I4KS-S 25OL 70BR01	96.443.7088.4
	8.0	RST20I4KS-S 25OL 80BR01	96.443.8088.4
	9.0	RST20I4KS-S 25OL 90BR01	96.443.9088.4

Distributor

Power distributor box

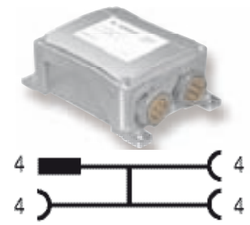


RST compact distributor
RST 20i5, 5 pole, 1 input,
3 outputs, with fixing option,
250/400 V, 20 A,
black color coding

Description	Type	Order No
Distributor box	**RST20I5B 3P1 F VG SW**	96.050.0153.1

Technical data	
Rated voltage (V)	400
Rated voltage Auxiliary power (V)	-
Rated current (A)	20
Number of poles	5
Connection type 1	Plug connection
Connection type 2	Plug connection
Color	black
Degree of protection	IP65
Length (mm)	162
Width (mm)	104
Height (mm)	57.2
Approvals	-

Distributor box AS-i / 24 V

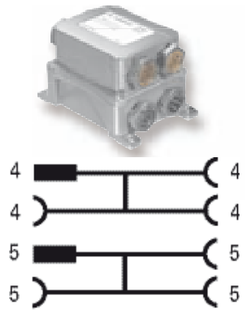


RST compact distributor
RST 20i4, 4 pole, 1 input,
3 outputs, with fixing option,
AS-i/24V, 20A,
brown color coding

Description	Type	Order No
Distributor box	**RST20I4B 3P1 F VGL SW01**	96.040.0151.4

Technical data	
Rated voltage (V)	-
Rated voltage Auxiliary power (V)	24V
Rated current (A)	20
Number of poles	4
Connection type 1	Plug connection
Connection type 2	Plug connection
Color	black
Degree of protection	IP65
Length (mm)	162
Width (mm)	104
Height (mm)	57.2
Approvals	-

Power distributor box AS-i / 24 V



RST compact distributor
RST 20i4, 4 pole, 1 input,
3 outputs, AS-i/ 24 V 20 A,
brown color coding RST 20i5,
5 pole, 1 input,
3 outputs, 250 / 400 V, 20 A,
black color coding with fixing option

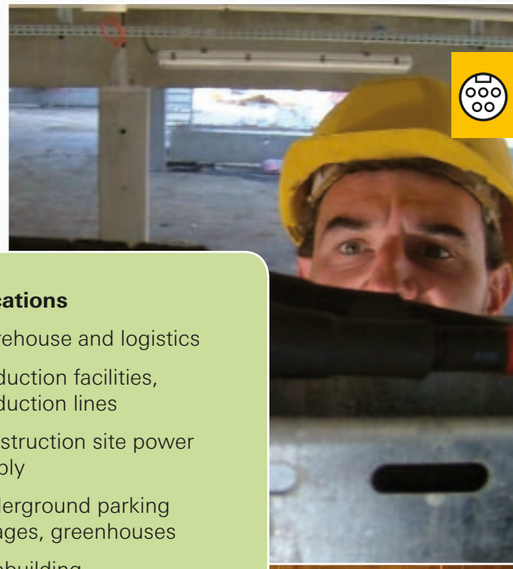
Description	Type	Order No
Distributor box	**RST20I5B 4P2 F VGX SW99**	99.903.0000.7

Technical data	
Rated voltage (V)	400V
Rated voltage Auxiliary power (V)	24V
Rated current (A)	20
Number of poles	5 und 4
Connection type 1	Plug connection
Connection type 2	Plug connection
Color	black
Degree of protection	IP65
Length (mm)	162
Width (mm)	104
Height (mm)	96
Approvals	-

For further information please see the "*gesis*®IP+" catalog.

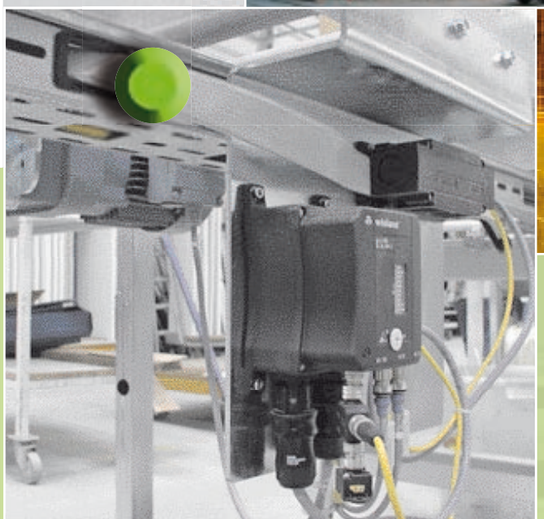
Order No. 0161.5

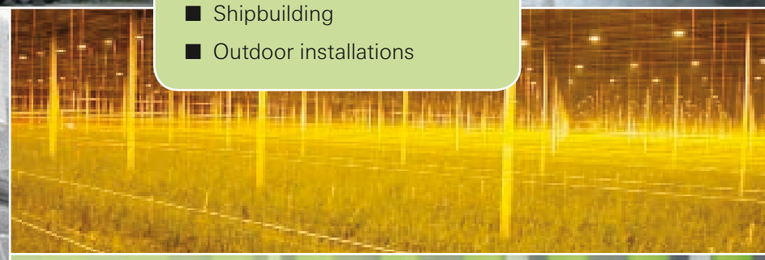
gesis® Applications

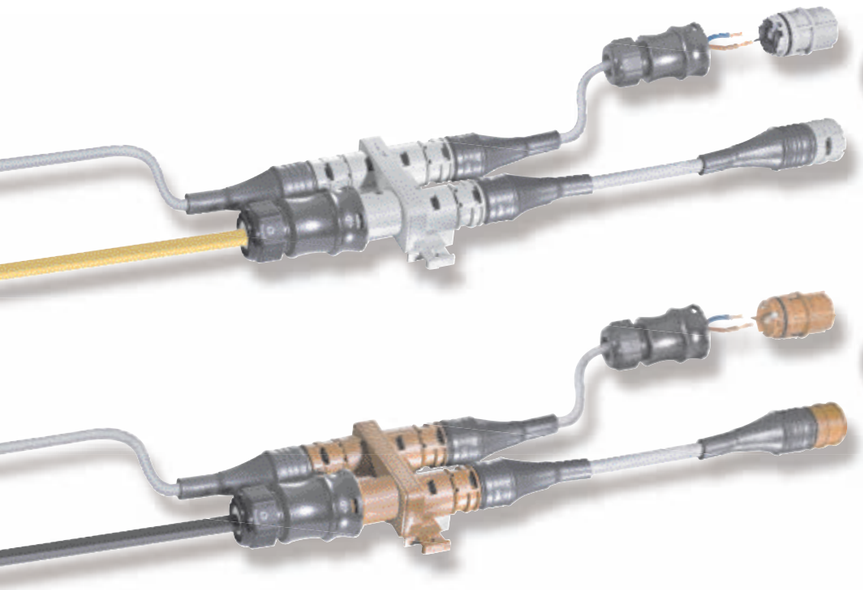


Applications

- Warehouse and logistics
- Production facilities, production lines
- Construction site power supply
- Underground parking garages, greenhouses
- Shipbuilding
- Outdoor installations







AS-i, encoding
pebble gray

24 V auxiliary voltage
brown encoding

Four basic modules for an integrated installation:

- Pluggable connectors can be assembled on-site and are available optionally for connection of a round cable or the AS-i profile cable.
- Distributor blocks allow for distribution of electrical power and signals within the network.
- Assembled cables are available in different lengths and designs, and are used for forwarding and feeding of auxiliary power /signals.
- Device connections are integrated directly into the end device and represent the interface to the pluggable connector system.

AS-i and auxiliary power 24 V

Each circuit has its own mechanical encoding. Mechanical encoding means that only matching plug-and-socket pairs can be plugged together. This ensures the clear separation of the two circuits.

Technical data

- 50 V, 20 A
- IP 66 and IP 68 (2 m; 3 h)
- Temperatures of -40 to +100° C
- Screw connection 0.5 – 4.0 mm²

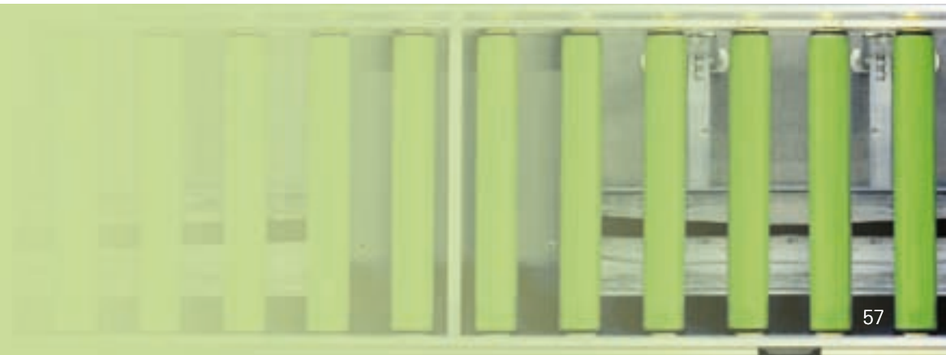
Rapid installation system *gesis*®IP+ for the AS Interface

As a complete installation system, ***gesis***®IP+ provides a clear reduction of installation time. The components, fully assembled at the factory, only need to be plugged together in the field. No more tedious trimming, stripping, insulation removal and connecting.

gesis®IP+ opens up a whole world of new opportunities. Complex system components can be fully pre-assembled and tested, independent of their later destination. The individual modules then only need to be connected to each other on-site.

Advantages

- Flexible
- Economical
- Easy and clearly designed
- Fewer installation faults
- Mechanically coded
- High degree of protection



Pluggable connector systems in IP65 – IP68

24 V auxiliary voltage, 2 pole, brown encoding

Pluggable connector for round cables	M25 system connection for housing installation	Assembled cables 2 x 1.5 mm² (2 times)		
With screw connection Design: For cables 8 – 10 mm	Screw connection	Extension cable Socket – Plug Ölflex Classic 100	Connection cable Socket – open end with ultrasonically compressed wire ends Ölflex Classic 100	Connection cable Plug – open end with ultrasonically compressed wire ends Ölflex Classic 100
Socket part 	**Socket part** 			
Order No 96.021.4051.4	Order No 96.021.5051.4			
Plug part 	**Plug part** 			
Order No 96.022.4051.4	Order No 96.022.5051.4	Order No 96.222.x092.4	Order No 96.222.x097.4	Order No 96.222.x098.4

Pluggable connector for AS-i profile cable	Distributor 1E/3A		Assembled cables 2 x 2.5 mm² (2 times)		
With Screw connection	With fixing option		Extension cable Socket – Plug Ölflex Classic 100	Connection cable Socket – open end with ultrasonically compressed wire ends Ölflex Classic 100	Connection cable Plug – open end with ultrasonically compressed wire ends Ölflex Classic 100
Socket part 					
Order No 96.021.4051.4	Order No 96.020.0151.4				
Plug part 	**Caps** suitable for any encoding  With loss-protection for socket parts not in use	 With loss-protection for plug parts not in use			
Order No 96.022.4051.4	Order No 96.416.6205.2	Order No 99.414.6205.2	Order No 96.223.x092.4	Order No 96.223.x097.4	Order No 96.223.x098.4

x = cable length in meters (1 to 8 m)

Pluggable connector systems in IP65 – IP68

AS-i pluggable connector system, 2 pole, pebble gray encoding

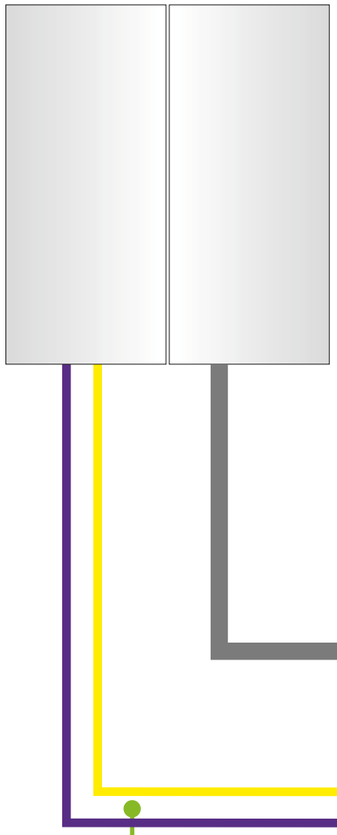
Pluggable connector for round cables	M25 system connection for housing installation	Assembled cables 2 x 1.5 mm² (2 times)		
With screw connection Design: For cables 6 – 10 mm	Screw connection	Extension cable Socket – Plug Ölflex Classic 100	Connection cable Socket – open end with ultrasonically compressed wire ends Ölflex Classic 100	Connection cable Plug – open end with ultrasonically compressed wire ends Ölflex Classic 100
Socket part 	**Socket part** 			
Order No 96.021.4050.8	Order No 96.021.5050.8			
Plug part 	**Plug part** 			
Order No 96.022.4050.8	Order No 96.022.5050.8	Order No 96.222.x092.8	Order No 96.222.x097.8	Order No 96.222.x098.8

Pluggable connector for AS-i profile cable	Distributor 1E/3A		Assembled cables 2 x 2.5 mm² (2 times)		
With Screw connection	With fixing option		Extension cable Socket – Plug Ölflex Classic 100	Connection cable Socket – open end with ultrasonically compressed wire ends Ölflex Classic 100	Connection cable Plug – open end with ultrasonically compressed wire ends Ölflex Classic 100
Socket part 					
Order No 96.021.4950.8	Order No 96.020.0150.8				
Plug part 	**Caps** suitable for any encoding  for socket parts not in use	 for plug parts not in use			
Order No 96.022.4950.8	Order No Z5.564.4553.1	Order No 05.564.4453.1	Order No 96.223.x092.8	Order No 96.223.x097.8	Order No 96.223.x098.8

For further information please see the "*gesis*®IP+" catalog.

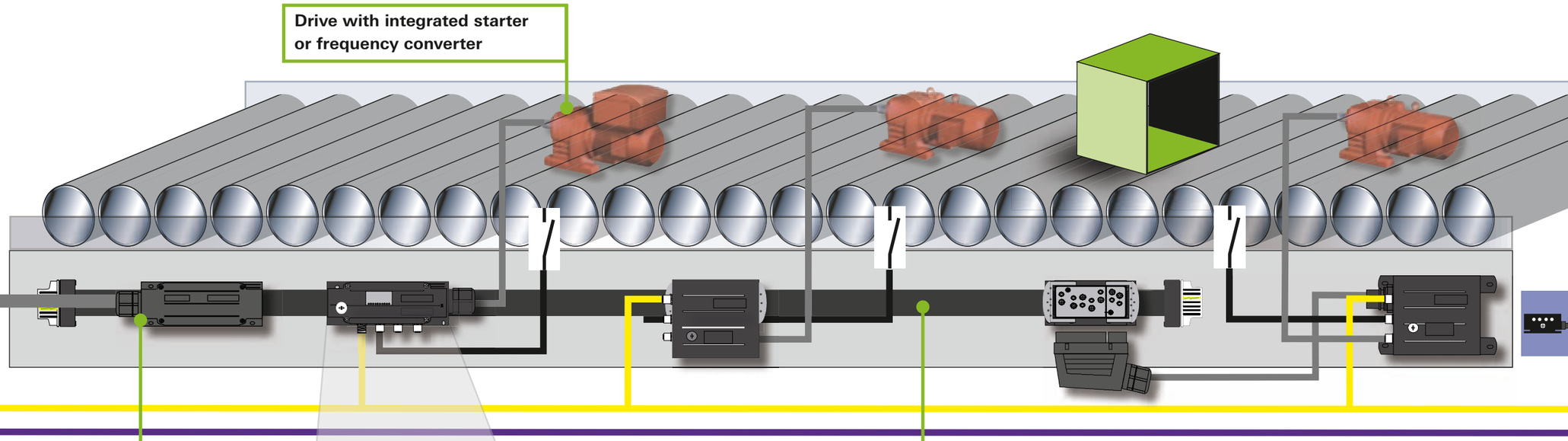
Order No. 0161.5

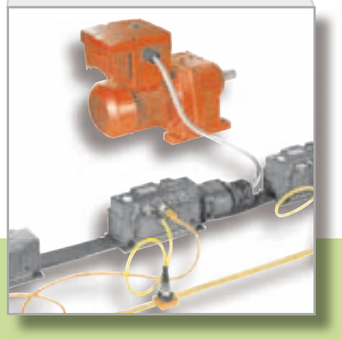
Control cabinet with PLC and power supply



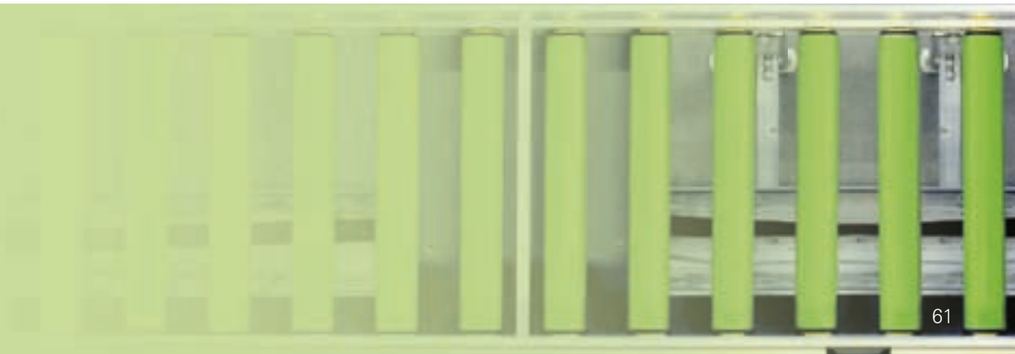
Field distributors

Field distributors





Field distributors
***podis*® / *gesis*®MOT**
***podis*® / *gesis*®I/O**



Field distributors for the

uncut

flat cable power bus

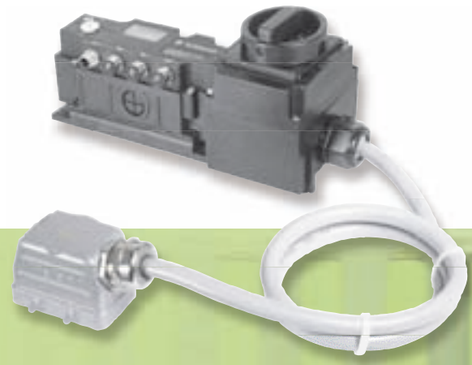
The ***podis***®MOT field distributors connect remotely controlled drives with the feeding power supply, the 24 V control voltage, and the field bus. They are based on the bus interface technology with additional connecting technology for power distribution. Mounting the field distributors close to the motors facilitates distributed installation. The field distributors are optimally compatible with SEW MOVIMOT and MOVISWITCH drives for efficient and flexible distribution of your system.
In addition, up to three sensors can be connected to the extremely compact housings.

podis®SWITCH devices activate any single-phase loads such as flaps, magnetic valves, lifting magnets, and alterable switches.

Sensors and actuators can be connected to the field bus via the ***podis***®I/O input or output modules.

Features

- Use of standardized functional modules
- Use of integrated systems for:
  - power distribution (flexible bus bar)
  - sensor technology
  - data
- Use of distributed integrated installation and control components
- Connection technology using piercing contacts
- Connection of drive
  - plug-in (optional) on the drive
  - or on the ***podis***® field distributor



Designs

Field distributors for drive control

AS-i ***podis***®MOT FA C …
PROFIBUS DP ***podis***®MOT FP C …

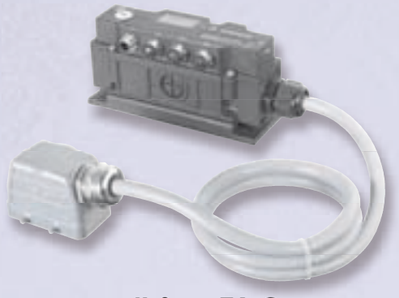
Single-phase switches for valves, flaps, stoppers, alterable switches …

AS-i ***podis***®SWITCH FA C …

I/O Module

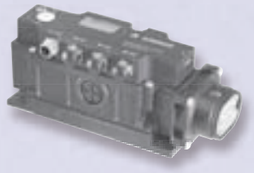
AS-i ***podis***®I/O FA C …

Configurations:



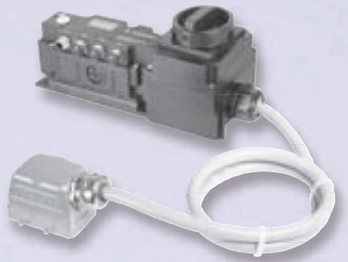
podis®MOT **FA C ...**

Pre-assembled;
plug-in on the drive



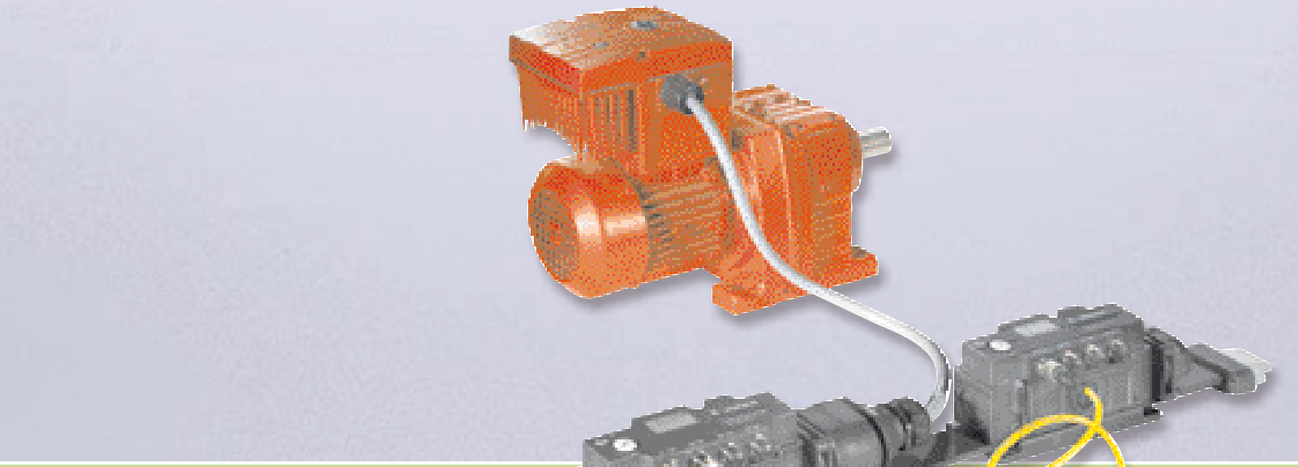
podis®MOT **FA CP ...**

Plug-in on the field distributor



podis®MOT **FA CM**

With maintenance switch;
plug-in on the drive



Field distributors for the uncut
Flat cable power bus
podis®MOT

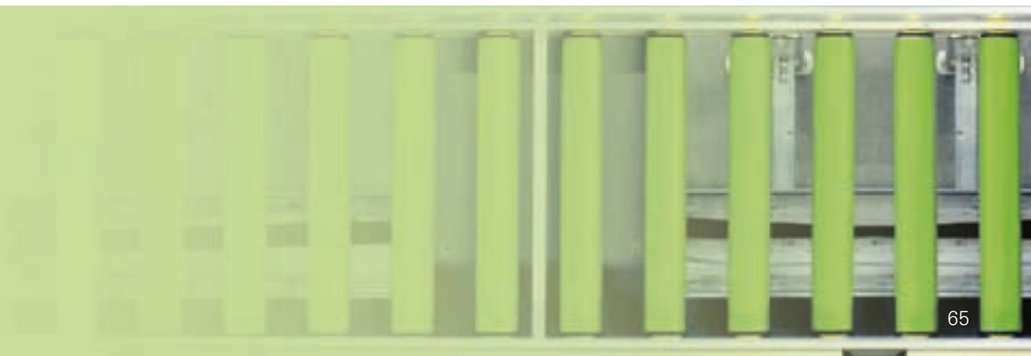
Features

podis®MOT for controlling SEW MOVIMOT and MOVI-SWITCH drives

- integrated power distribution
- integrated field bus interface
- AS interface or PROFIBUS DP
- digital inputs on M12
- optional maintenance switch
- connection of drive via a pre-assembled connection cable
- plug-in on the drive or field distributor
- detailed diagnosis via LED displays

Advantages

- Quick and easy installation
- Compact design
- Accessible field distributors can be integrated into the cable duct
- On-site diagnosis via LED
- Easily expandable
- Display of status and error messages
- Optimum service and maintenance



Field distributors for AS interface
(binary interface to the drive)

podis®MOT
FA CP3I/1I4O (binary)

podisMOT FA CP 3I/1I4O; field distributor at the AS-i for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, 4 control outputs, 1 input) plug-in via **revos**MOT 11 pole, 3 digital initiator inputs on M12,
AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA CP3I/1I4O**	83.210.0005.2
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		2
Number of inputs		4
Number of outputs		4
Output current per channel (A)		0.5
Output type		Transistor
AS-i specification		V2.11
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
pre-assembled motor connection cable		see page 72
L x W x H (mm)		160 x 70.5 x 79.5
Approvals		

podis®MOT
FA C 3I/1I4O (binary)

podisMOT FA C 3I/1I4O 10; field distributor at the AS-i for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, 4 control outputs, 1 control input) via round cable 11 x 1.5 mm²; (length 1000 mm) and industrial pluggable connector **revos**BASIC to the load; 3 digital initiator inputs on M12, AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA C 3I/1I4O 10**	83.210.1001.2
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		2
Number of inputs		4
Number of outputs		4
Output current per channel (A)		0.5
Output type		Transistor
AS-i specification		V2.11
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Cable length Motor cable (m)		1.0
L x W x H (mm)		160 x 69.2 x 79.5
Approvals		

Versions		Type	Order No
Cable length (m)	1.5	FA C 3I/1I4O 15	83.210.1501.2
	2.0	FA C 3I/1I4O 20	83.210.2001.2
	2.5	FA C 3I/1I4O 25	83.210.2501.2
	3.0	FA C 3I/1I4O 30	83.210.3001.2
	X.X - on request	FA C 3I/1I4O XX	83.210.XX01.2

podis®MOT
FA CM3I/1I4O (binary)

podisMOT FA CM 3I/1I4O 10; field distributor with repair switch (L1, L2, L3) at the AS-i for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, 4 control outputs, 1 control input) via round cable 11 x 1.5 mm²; (length 1000 mm) and industrial pluggable connector **revos**BASIC to the load; 3 digital initiator inputs on M12, AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA CM3I/1I4O 10**	83.210.1001.4
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		2
Number of inputs		4
Number of outputs		4
Output current per channel (A)		0.5
Output type		Transistor
AS-i specification		V2.11
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Cable length Motor cable (m)		1.0
L x W x H (mm)		254 x 88 x 123
Approvals		

Versions		Type	Order No
Cable length (m)	X.X - on request	FA CM 3I/1I4O XX	83.210.XX01.4

Field distributors for AS interface
(binary interface to the drive)

podis®MOT FAIC -/1I4O (binary)
AS-i integrated in the flat cable

podisMOT FAIC-/1I4O 10; field distributor at the AS-i for distributed loads (e.g. MOVI-SWITCH from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, 4 control outputs, 1 control input) via round cable 11 x 1.5 mm²; (length 1000 mm) and industrial pluggable connector **revos**BASIC to the load; AS-i bus signal from **podis** flat cable

Description	Type	Order No
podis®MOT	**FAIC -/1I4O 10**	83.219.1001.2
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		-
Rated operating current auxiliary power (A)		-
Number of inputs		1
Number of outputs		4
Output current per channel (A)		0,045
Output type		Transistor
AS-i specification		V2.11
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Cable length Motor cable (m)		1,0
L x W x H (mm)		168, 5 x 59, 5 x 79,5
Approvals		-

Versions		Type	Order No
Cable length (m)	1.5	FAIC -/1I4O 15	83.219.1501.2
	2.0	FAIC -/1I4O 20	83.219.2001.2
	2.5	FAIC -/1I4O 25	83.219.2501.2
	3.0	FAIC -/1I4O 30	83.219.3001.2
	X.X - on request	FAIC -/1I4O XX	83.219.XX01.2

Input/output modules for AS interface

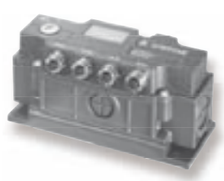
podis®I/O FAJC 3IO
Input/output module

podisI/O FAJC 3IO; AS-i I/O module on the **podis** flat cable-power bus with degree of protection IP65, AS-i-Slave 3I3O, three M12 interfaces to the device, defined as input or output via jumpers; AS-i connection via M12; 24 V DC from **podis** flat cable

Description	Type	Order No
podis®I/O	**FAJC 3IO**	83.220.0000.2
Technical data		
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1.5
Number of inputs		-
Number of outputs		-
Digital inputs/outputs. configurable		3
Output current per channel (A)		0.5
Output type		Transistor
AS-i specification		V2.11
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
L x W x H (mm)		160 x 70.5 x 79.5
Approvals		

podis®I/O FAIC 4I
Input module
AS-i integrated in the flat cable

podisI/O FAIC 4I; AS-i I/O module on the **podis** flat cable power bus with degree of protection IP65, AS-i-Slave 4I, four inputs via M12 round pluggable connectors; AS-i connection from **podis** flat cable; connection via piercing contacts, length of motor cable (m)



Description	Type	Order No
podis®I/O	**FAIC 4I**	83.215.0000.2
Technical data		
Rated operating voltage auxiliary power (V DC)		-
Rated operating current auxiliary power (A)		-
Number of inputs		4
Number of outputs		-
Digital inputs/outputs. configurable		-
Output current per channel (A)		-
Output type		-
AS-i specification		V3.0
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
L x W x H (mm)		160 x 70.5 x 79.5
Approvals		

Field distributors for AS interface
(RS485 interface to the drive)

podis®MOT
FA CP 3I/RS485

podisMOT FA CP 3I/RS485 (SEW); field distributor at the AS-i for distributed loads (MOVIMOT from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); plug-in to the load via **revos**MOT pluggable connector (11 pole), 3 digital initiator inputs on M12, AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA CP 3I/RS485 (SEW)**	83.214.0005.2

Technical data	
Rated voltage (V AC)	400
Rated current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	3
Number of outputs	-
Number of HW interfaces serial RS485	1
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
pre-assembled motor connection cable	see page 73
L x W x H (mm)	172 x 70.5 x 79.5
Approvals	

podis®MOT
FA C 3I/RS485

podisMOT FA C 3I/RS485 (SEW) 10; field distributor at the AS-i for distributed loads (MOVIMOT from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); plug-in to the load via hybrid cable (length 1000 mm) and industrial pluggable connector (AMA6); 3 digital initiator inputs on M12, AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA C 3I/RS485 (SEW) 10**	83.214.1006.2

Technical data	
Rated voltage (V AC)	400
Rated current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	3
Number of outputs	-
Number of HW interfaces serial RS485	1
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1.0
L x W x H (mm)	172 x 70.5 x 79.5
Approvals	

Versions		Type	Order No
Cable length (m)	1.5	FA C 3I/RS485 (SEW) 15	83.214.1506.2
	2.0	FA C 3I/RS485 (SEW) 20	83.214.2006.2
	2.5	FA C 3I/RS485 (SEW) 25	83.214.2506.2
	3.0	FA C 3I/RS485 (SEW) 30	83.214.3006.2
	X.X - on request	FA C 3I/RS485 (SEW) XX	83.214.XX06.2

podis®MOT
FA CM 3I/RS485

podisMOT FA CM 3I/RS485 (SEW) 10; field distributor with repair switch at the AS-i for distributed loads (MOVIMOT from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0V, serial interface RS485 – MOVILINK protocol); plug-in to the load via hybrid cable (length 1000 mm) and industrial pluggable connector (AMA6); 3 digital initiator inputs on M12, AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA CM 3I/RS485 10**	83.214.1006.4

Technical data	
Rated voltage (V AC)	400
Rated current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	3
Number of outputs	-
Number of HW interfaces serial RS485	1
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1.0
L x W x H (mm)	254 x 88 x 123
Approvals	

Versions		Type	Order No
Cable length (m)	X.X - on request	FA CM 3I/1I4O XX	83.210.XX01.4

Single-phase switches for AS interface

podis®SWITCH FAIC -/2I2OR
(AS-i integrated in the flat cable)

podisSWITCH FAIC -/2I2OR; field distributor at the AS-i for distributed loads (single-phase loads) on the **podis** flat cable power bus with degree of protection IP65, AS-i A/B slave; two relay outputs (230 V AC, 1A); two control inputs (24 VDC) via **revos**MINI (7 poles + ground) pluggable connector; AS-I bus signal from **podis** flat cable

Description	Type	Order No
podis®SWITCH	**FAIC -/2I2OR**	83.213.0004.2

Technical data	
Rated voltage (V AC)	230/400
Rated current (A)	2
Rated operating voltage auxiliary power (V DC)	-
Rated operating current auxiliary power (A)	-
Number of inputs	2
Number of outputs	2
Output current per channel (A)	1.0
Output type	Relais
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	-
L x W x H (mm)	196 x 70.5 x 79.5
Approvals	-

podis®SWITCH
FA C 3I/1OR

podisSWITCH FA C 3I/1OR 15; field distributor at the AS-i for distributed loads (single-phase loads) on the **podis** flat cable power bus with degree of protection IP65, standard AS-i slave; one relay output (230 V AC, 1A) via round cable 4x1,5 mm², (length 1500 mm) and valve plug (3 poles + ground); 3 digital initiator inputs on M12; AS-I connection via M12

Description	Type	Order No
podis®SWITCH	**FA C 3I/1OR 15**	83.217.1509.2

Technical data	
Rated voltage (V AC)	230/400
Rated current (A)	2
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1.0
Number of inputs	3
Number of outputs	1
Output current per channel (A)	2.0
Output type	Relais
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1.5
L x W x H (mm)	168.5 x 70.5 x 79.5
Approvals	-

Versions		Type	Order No
Cable length (m)	X.X - on request	FA C 3I/1OR XX	83.217.XX09.2

podis®SWITCH
FA C 3I/1OT

podisSWITCH FA C 3I/1OT 15; field distributor at the AS-i for distributed loads (single-phase loads) on the **podis** flat cable power bus with degree of protection IP65, standard AS-i slave; one semiconductor switch output (230 V AC, 0.6 A (50°C)) via round cable 4x1.5 mm², (length 1500 mm) and valve plug (3 poles + ground); 3 digital initiator inputs on M12; AS-I connection via M12

Description	Type	Order No
podis®SWITCH	**FA C 3I/1OT 15**	83.221.1509.2

Technical data	
Rated voltage (V AC)	230/400
Rated current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1.0
Number of inputs	3
Number of outputs	1
Output current per channel (A)	0.6
Output type	Transistor
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1.5
L x W x H (mm)	168.5 x 70.5 x 79.5
Approvals	-

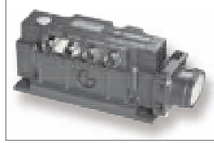
Versions		Type	Order No
Cable length (m)	X.X - on request	FA C 3I/1OT XX	83.221.XX09.2

Field distributors for PROFIBUS DP

(binary interface to the drive)

podis®MOT FP CP 2I2IO/1I4O (binary)

podisMOT FP CP 2I2IO/1I4O; field distributor at the PROFIBUS-DP for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the **podis** flat cable power bus with degree of protection IP 65, with integrated PROFIBUS-DP slave; power (400 VAC) + control (24 V, 0 V, 4 control outputs, 1 input); plug-in to the load via **revos**MOT pluggable connector (11 pole), two digital initiator inputs; two selectable as input/output via M12, PROFIBUS-DP connection via M12

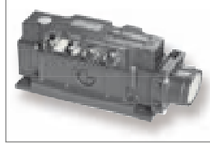


Description	Type	Order No
podis®MOT	**FP CP 2I2IO/1I4O**	83.253.0005.2
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1
Number of inputs		3
Number of outputs		4
Digital inputs/outputs. configurable		2
Number of HW interfaces serial RS485		0
PROFIBUS Report		yes
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
pre-assembled motor connection cable		see page 73
L x W x H (mm)		168.5 x 70.5 x 79.5
Approvals		-

(RS485 interface to the drive)

podis®MOT FP CP2I2I0/RS485

podisMOT FP CP 2I2IO/RS485 (SEW); field distributor at the PROFIBUS-DP for MOVIMOT from SEW on the **podis** flat cable power bus with degree of protection IP 65, with integrated PROFIBUS-DP slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); plug-in to the load via **revos**MOT pluggable connector (11 pole), two digital initiator inputs; two selectable as input/output via M12, PROFIBUS-DP connection via M12



Description	Type	Order No
podis®MOT	**FP CP2I2I0/RS485**	83.252.0005.2
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1
Number of inputs		3
Digital inputs/outputs, configurable		2
Number of HW interfaces serial RS485		1
PROFIBUS Report		yes
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
pre-assembled motor connection cable		see page 73
L x W x H (mm)		168.5 x 70.5 x 79.5
Approvals		cULus

podis®MOT FP C 2I2IO/RS485

podisMOT FP C 2I2IO/RS485 (SEW) 10; field distributor at the PROFIBUS-DP for distributed loads on the **podis** flat cable power bus with degree of protection IP 65, with integrated PROFIBUS-DP slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); via hybrid cable (length 1000 mm) and industrial pluggable connector (AMA6) to the load, two digital initiator inputs; two selectable as input/output via M12, PROFIBUS-DP connection via M12, UL/CSA

Description	Type	Order No
podis®MOT	**FP C 2I2IO/RS485(SEW)10**	83.252.1006.2
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1
Number of inputs		2
Digital inputs/outputs, configurable		2
Number of HW interfaces serial RS485		1
PROFIBUS Report		yes
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Cable length Motor cable (m)		1.0
L x W x H (mm)		168.5 x 70.5 x 79.5
Approvals		cULus

Versions		Type	Order No
Cable length (m)	1.5	FP C 2I2IO/RS485(SEW)15	83.252.1506.2
	2.0	FP C 2I2IO/RS485(SEW)20	83.252.2006.2
	2.5	FP C 2I2IO/RS485(SEW)25	83.252.2506.2
	3.0	FP C 2I2IO/RS485(SEW)30	83.252.3006.2
	X.X - on request	FP C 2I2IO/RS485(SEW)XX	83.252.XX06.2

podis®MOT FP CM 2I2IO/RS485

podisMOT FP CM 2I2IO/RS485 (SEW) 10; field distributor with repair switch at the PROFIBUS-DP for distributed loads on the **podis** flat cable power bus with degree of protection IP 65, with integrated PROFIBUS-DP slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); via hybrid cable (length 1000 mm) and industrial pluggable connector (AMA6) to the load, two digital initiator inputs; two selectable as input/output via M12, PROFIBUS-DP connection via M12, UL/CSA

Description	Type	Order No
podis®MOT	**FP CM 2I2IO/RS485(SEW)10**	83.252.1006.4
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1
Number of inputs		2
Digital inputs/outputs, configurable		2
Number of HW interfaces serial RS485		1
PROFIBUS Report		yes
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Cable length Motor cable (m)		1.0
L x W x H (mm)		254 x 88 x 123
Approvals		cULus

Versions		Type	Order No
Cable length (m)	X.X - on request	FP CM 2I2IO/RS485(SEW) XX	83.252.XX06.4

podis®ELECTRONIC assembled sensor cables for podis®MOT field distributors

M12 interconnecting cable (T distribution)

M12 interconnecting cable RVS SW12 BT12 03; A-coded, plug angled to 2 x socket angled (T distribution); 4 pole, for sensor cables, cable length 300 mm

Description	Type	Order No
Round cable connection	**RVS SW12 BT12 03**	83.408.0310.0
Technical data		
Number of poles		4
Cable length		0.3 m
Sheath material		PUR (Polyurethane)
Sheath color		black
Connection side 1 (housing side)		M12
Cable connection side 1		angled
Connection side 2 (field side)		M12
Cable connection side 2		angled
Design side 2		Female (socket)
Approvals		-

M 12 sensor connection cable

M12 connection cable RVS SW12-05; A-coded, plug angled to open end; 4 pole, for sensor cables, cable length 500 mm

Description	Type	Order No
Round cable connection	**RVS SW12 -05**	83.407.0510.0
Technical data		
Number of poles		4
Cable length		0,5 m
Sheath material		PUR (Polyurethane)
Sheath color		black
Connection side 1 (housing side)		M12
Cable connection side 1		angled
Connection side 2 (field side)		open end
Cable connection side 2		angled
Design side 2		dismantled
Approvals		-

Versions		Type	Order No
Cable length (m)	1.0	RVS SW12 -10	83.407.1010.0
	2.0	RVS SW12 -20	83.407.2010.0
	3.0	RVS SW12 -30	83.407.3010.0
	5.0	RVS SW12 -50	83.407.5010.0
	7.0	RVS SW12 -70	83.407.7010.0
	10.0	RVS SW12 -100	83.407.9910.0

M 12 sensor interconnecting cable

M12 interconnecting cable RVS SW12-BG12-05; A-coded, plug angled to socket straight; 4 pole, for sensor cables, cable length 500 mm

Description	Type	Order No
Round cable connection	**RVS SW12 BG12 05**	83.401.0510.0
Technical data		
Number of poles		4
Cable length		0,5 m
Sheath material		PUR (Polyurethane)
Sheath color		black
Connection side 1 (housing side)		M12
Cable connection side 1		angled
Connection side 2 (field side)		M12
Cable connection side 2		straight
Design side 2		Female (socket)
Approvals		-

Versions		Type	Order No
Cable length (m)	1.0	RVS SW12 BG12 10	83.401.1010.0
	2.0	RVS SW12 BG12 20	83.401.2010.0
	3.0	RVS SW12 BG12 30	83.401.3010.0
	5.0	RVS SW12 BG12 50	83.401.5010.0
	7.0	RVS SW12 BG12 70	83.401.7010.0
	10.0	RVS SW12 BG12 100	83.401.9910.0

Accessories see page 94 and following.

Assembled motor connection cables for *podis*®MOT field distributors

Connection cable for MOVI-SWITCH 1E drives (binary)

Connection cable 8x1.5 mm² ***revos***MOT W25 – 10; e.g. for SEW MOVI-SWITCH 1E, assembled with "Ölflex Classic 110"; 8x1.5 mm²; ***revos***MOT angled – open cable end; stripping length 190 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	***revos***MOT **W 8X1.5 - 10**	83.311.1002.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles		8
Cable type (mm²)		1.5
Design side 1		Plug
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		Ölflex Classic 110
Cable diameter (mm)		10.6
Stripping length (mm)		190
Wire strip length (mm)		7
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	1.5	***revos***MOT W 8X1,5 - 15	83.311.1502.1
	2.0	***revos***MOT W 8X1,5 - 20	83.311.2002.1
	3.0	***revos***MOT W 8X1,5 - 30	83.311.3002.1
	4.0	***revos***MOT W 8X1,5 - 40	83.311.4002.1
	5.0	***revos***MOT W 8X1.5 - 50	83.311.5002.1

Connection cable for MOVI-SWITCH 2S drives (binary)

Connection cable ***revos***MOT W 9x1.5 mm² – 10; e.g. for SEW MOVI-SWITCH 2S, assembled with "Ölflex Classic 110"; 9x1.5 mm²; ***revos***MOT angled – open cable end; stripping length 190 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	***revos***MOT **W 9X1.5 - 10**	83.312.1002.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles		9
Cable type (mm²)		1.5
Design side 1		Plug
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		Ölflex Classic 110
Cable diameter (mm)		11.4
Stripping length (mm)		190
Wire strip length (mm)		7
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	1.5	***revos***MOT W 9X1,5 - 15	83.312.1502.1
	2.0	***revos***MOT W 9X1,5 - 20	83.312.2002.1
	3.0	***revos***MOT W 9X1,5 - 30	83.312.3002.1
	4.0	***revos***MOT W 9X1,5 - 40	83.312.4002.1
	5.0	***revos***MOT W 9X1.5 - 50	83.312.5002.1

Connection cable for MOVIMOT drives (binary)

Connection cable ***revos***MOT W 11x1.5 mm² – 10; e.g. for SEW MOVIMOT, assembled with "Ölflex Classic 110"; 11x1.5 mm²; ***revos***MOT angled – open cable end; stripping length 190 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	***revos***MOT **W 11X1.5 - 10**	83.313.1002.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles		11
Cable type (mm²)		1.5
Design side 1		Plug
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		Ölflex Classic 110
Cable diameter (mm)		12
Stripping length (mm)		190
Wire strip length (mm)		7
Cable length (m)		1.0
Approvals		-

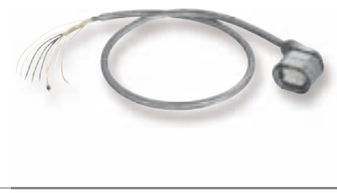
Versions		Type	Order No
Cable length (m)	1.5	***revos***MOT W 11X1,5 - 15	83.313.1502.1
	2.0	***revos***MOT W 11X1,5 - 20	83.313.2002.1
	3.0	***revos***MOT W 11X1,5 - 30	83.313.3002.1
	4.0	***revos***MOT W 11X1,5 - 40	83.313.4002.1
	5.0	***revos***MOT W 11X1.5 - 50	83.313.5002.1

podis® ELECTRONIC

Assembled motor connection cables for *podis*®MOT field distributors

Connection cable for SEW MOVIMOT drives (RS 485)

Connection cable ***revos***MOT W 4 x 2.5 + 2 x 2 x 1.0 mm² - 10; for SEW MOVIMOT; assembled with hybrid cable 4x2.5 + 2 x 2 x 1.0 (C) sw; ***revos***MOT angled – open cable end; stripping length 230 mm; insluation removal length 8 mm, ultrasonically compressed; cable length 1000 mm



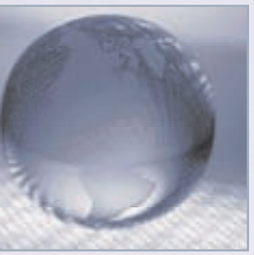
Description	Type	Order No
Connection cable	**HYB4+2X2 REV.MOT W25-10**	83.314.1002.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles		8
Cable type (mm²)		2.5
Design side 1		Plug
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		LI12Y11Y4X2.5 +2X2X1.0(C)
Cable diameter (mm)		12.8
Stripping length (mm)		190
Wire strip length (mm)		7
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	1.5	HYB4+2X2 REV.MOT W25-15	83.314.1502.1
	2.0	HYB4+2X2 REV.MOT W25-20	83.314.2002.1
	3.0	HYB4+2X2 REV.MOT W25-30	83.314.3002.1
	4.0	HYB4+2X2 REV.MOT W25-40	83.314.4002.1
	5.0	HYB4+2X2 REV.MOT W25-50	83.314.5002.1

Accessories see page 94 and following.

Länderspezifische products

podis® is international



podis® has established itself as a power bus system in distributed installations or distributed automation – in various sectors of the industry.

podis® meets the requirements of international IEC regulations – an essential prerequisite for international use.

Therefore the **podis®** system is well known in many countries worldwide and is used in many industry sectors for countless applications.

Whether in automotive, airport or intra-logistics, machine and system engineering, food & beverage, or building and tunnel installation (to mention but a few), electrical connections are realized everywhere using **podis®** power bus solutions.

However, each country regulates and implements its own installation guidelines and practices. In the U.S., for example, this is done using the **NEC** (National Electric Code). The **NEC** is one of the most used documents for electrical systems installation regulations. The **NEC** regulations are published by the National Fire Protection Association (NFPA). Therefore, products shipped to the U.S. must be tested and approved by **UL** (Underwriters Laboratories), the leading testing and certification institute.
podis® offers the right components for your power bus system.

For more information please see page 40.

Note

→ **In accordance with national standards, national installation regulations must be complied with when using *podis*® products.**

Field distributors for AS interface
(binary interface to the drive)

Regionally-specific products

podis®MOT
FA CP3I/1I4O

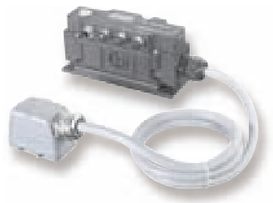
podisMOT FA CP 3I/1I4O; field distributor at the AS-i for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, 4 control outputs, 1 input) plug-in via **revos**MOT 11 pole, 3 digital initiator inputs on M12, AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA CP3I/1I4O**	83.210.0005.2

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	2
Number of inputs	4
Number of outputs	4
Output current per channel (A)	0.5
Output type	Transistor
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
pre-assembled motor connection cable	see page 79
Cable type Motor cable (AWG)	-
L x W x H (mm)	160 x 70.5 x 79.5
Approvals	

podis®MOT
FA C 3I/1I4O 10

podisMOT FA C 3I/1I4O 10; field distributor at the AS-i for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (480 VAC) + control (24 V, 0 V, 4 control outputs, 1 control input) via round cable "Ölflex Control TM 12 G AWG 16"; (length 1000 mm) and industrial pluggable connector **revos**BASIC to the load; 3 digital initiator inputs on M12, AS-i connection via M12



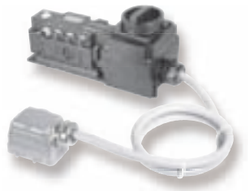
Description	Type	Order No
podis®MOT	**FA C 3I/1I4O 10**	83.210.1011.2

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	2
Number of inputs	4
Number of outputs	4
Output current per channel (A)	0.5
Output type	Transistor
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1.0
Cable type Motor cable (AWG)	16
L x W x H (mm)	160 x 69.2 x 79.5
Approvals	

Versions		Type	Order No
Cable length (m)	1,5	FA C 3I/1I4O 15	83.210.1511.2
	2,0	FA C 3I/1I4O 20	83.210.2011.2
	2,5	FA C 3I/1I4O 25	83.210.2511.2
	3,0	FA C 3I/1I4O 30	83.210.3011.2
	X,X - on request	FA C 3I/1I4O XX	83.210.XX11.2

podis®MOT
FA CM3I/1I4O 10

podisMOT FA CM 3I/1I4O 10; field distributor with repair switch at the AS-i for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (480 VAC) + control (24 V, 0 V, 4 control outputs, 1 control input) via round cable "Ölflex Control TM 12 G AWG 16"; (length 1000 mm) and industrial pluggable connector **revos**BASIC to the load; 3 digital initiator inputs on M12, AS-i connection via M12



Description	Type	Order No
podis®MOT	**FA CM3I/1I4O 10**	83.210.1011.4

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	2
Number of inputs	4
Number of outputs	4
Output current per channel (A)	0.5
Output type	Transistor
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1.0
Cable type Motor cable (AWG)	16
L x W x H (mm)	254 x 88 x 123
Approvals	

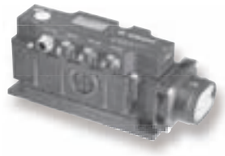
Versions	Type	Order No
Cable length (m) X.X - on request	FA CM 3I/1I4O XX	83.210.XX11.4

Field distributors for AS interface
(RS485 interface to the drive)

Regionally-specific products

podis®MOT
FA CP 3I/RS485

podisMOT FA CP 3I/RS485 (SEW); field distributor at the AS-i for distributed loads (MOVIMOT from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); plug-in to the load via revos-MOT pluggable connector (11 pole), 3 digital initiator inputs on M12, AS-i connection via M12



Description	Type	Order No
podis®MOT	**FA CP 3I/RS485 (SEW)**	83.214.0005.2

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	3
Number of outputs	0
Number of HW interfaces serial RS485	1
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Pre-assembled motor connection cable	see page 79
Cable type Motor cable (AWG)	-
L x W x H (mm)	172 x 70,5 x 79,5
Approvals	

podis®MOT
FA C 3I/RS485

podisMOT FA C 3I/RS485 (SEW) 10; field distributor at the AS-i for distributed loads (MOVIMOT from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); plug-in to the load via hybrid cable (length 1000 mm) and industrial pluggable connector (AMA6); 3 digital initiator inputs on M12, AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA C 3I/RS485 (SEW) 10**	83.214.1006.2

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	3
Number of outputs	0
Number of HW interfaces serial RS485	1
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1,0
Cable length Motor cable (AWG)	14
L x W x H (mm)	172 x 70,5 x 79,5
Approvals	

Versions		Type	Order No
Cable length (m)	1,5	FA C 3I/RS485 (SEW) 15	83.214.1506.2
	2,0	FA C 3I/RS485 (SEW) 20	83.214.2006.2
	2,5	FA C 3I/RS485 (SEW) 25	83.214.2506.2
	3,0	FA C 3I/RS485 (SEW) 30	83.214.3006.2
	X,X - on request	FA C 3I/RS485 (SEW) XX	83.214.XX06.2

podis®MOT
FA CM 3I/RS485

podisMOT FA CM 3I/RS485 (SEW) 10; field distributor with repair switch at the AS-i for distributed loads (MOVIMOT from SEW) on the **podis** power bus with degree of protection IP 65, standard AS-i slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); plug-in to the load via hybrid cable (length 1000 mm) and industrial pluggable connector (AMA6); 3 digital initiator inputs on M12, AS-i connection via M12

Description	Type	Order No
podis®MOT	**FA CM 3I/RS485 10**	83.214.1006.4

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	3
Number of outputs	0
Number of HW interfaces serial RS485	1
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1,0
Cable type Motor cable (AWG)	14
L x W x H (mm)	254 x 88 x 123
Approvals	

Versions	Type	Order No
Cable length (m) X,X - on request	FA CM 3I/RS485 (SEW) XX	83.214.XX06.4

Input/output modules for AS interface

Regionally-specific products

podis®I/O
FAJC 3IO

podisI/O FAJC 3IO; AS-i I/O module on the **podis** flat cable power bus with degree of protection IP65, AS-i-Slave 3I3O, 3 M12 interfaces to the device, defined as input or output via jumpers; AS-i connection via M12; 24 V DC from **podis** flat cable

Description	Type	Order No
podis®I/O	**FAJC 3IO**	83.220.0000.2

Technical data according to UL	
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1.5
Number of inputs	0
Number of outputs	0
Digital inputs/outputs, configurable	3
Output current per channel (A)	0.5
Output type	Transistor
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
L x W x H (mm)	160 x 70.5 x 79.5
Approvals	

podis®I/O
FAIC 4I

podisI/O FAIC 4I; AS-i I/O module on the **podis** flat cable power bus with degree of protection IP65, AS-i-Slave 4I, 4 inputs via M12 round pluggable connectors; AS-i connection from **podis** flat cable; connection via piercing contacts

Description	Type	Order No
podis®I/O	**FAIC 4I**	83.215.0000.2

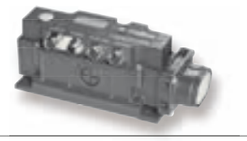
Technical data according to UL	
Rated operating voltage auxiliary power (V DC)	-
Rated operating current auxiliary power (A)	-
Number of inputs	4
Number of outputs	0
Digital inputs/outputs, configurable	0
Output current per channel (A)	-
Output type	-
AS-i specification	V3.0
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
L x W x H (mm)	160 x 70.5 x 79.5
Approvals	

Field distributors for PROFIBUS DP
(RS485 interface to the drive)

Regionally-specific products

podis®MOT
FP CP2I2I0/RS485

podisMOT FP CP 2I2IO/RS485 (SEW); field distributor at the PROFIBUS DP for MOVIMOT from SEW on the **podis** flat cable power bus with degree of protection IP 65, with integrated PROFIBUS DP slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); plug-in to the load via **revos**MOT pluggable connector (11 pole), two digital initiator inputs; two selectable as input/output via M12, PROFIBUS-DP connection via M12



Description	Type	Order No
podis®MOT	**FP CP2I2I0/RS485**	83.252.0005.2

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	3
Number of outputs	0
Number of HW interfaces serial RS485	1
AS-i specification	0
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	-
Cable type Motor cable (AWG)	-
L x W x H (mm)	168.5 x 70.5 x 79.5
Approvals	cULus

podis®MOT
FP C 2I2IO/RS485

podisMOT FP C 2I2IO/RS485 (SEW) 10; field distributor at the PROFIBUS DP for distributed loads on the **podis** flat cable power bus with degree of protection IP 65, with integrated PROFIBUS DP slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol) via hybrid cable (length 1000 mm) and industrial pluggable connector (AMA6) to the load; two digital initiator inputs; two selectable as input/output via M12, PROFIBUS DP connection via M12

Description	Type	Order No
podis®MOT	**FP C 2I2IO/RS485(SEW)10**	83.252.1006.2

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	2
Number of outputs	0
Number of HW interfaces serial RS485	1
AS-i specification	0
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1.0
Cable type Motor cable (AWG)	14
L x W x H (mm)	168.5 x 70.5 x 79.5
Approvals	cULus

Versions		Type	Order No
Cable length (m)	1.5	FP C 2I2IO/RS485(SEW)15	83.252.1506.2
	2.0	FP C 2I2IO/RS485(SEW)20	83.252.2006.2
	2.5	FP C 2I2IO/RS485(SEW)25	83.252.2506.2
	3.0	FP C 2I2IO/RS485(SEW)30	83.252.3006.2
	X.X - on request	FP C 2I2IO/RS485(SEW)XX	83.252.XX06.2

podis®MOT
FP CM 2I2IO/RS485

podisMOT FP CM 2I2IO/RS485 (SEW) 10; field distributor with repair switch at the PROFIBUS DP for distributed loads on the **podis** flat cable power bus with degree of protection IP 65, with integrated PROFIBUS DP slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); via hybrid cable (length 1000 mm) and industrial pluggable connector (AMA6) to the load, 2 digital initiator inputs; 2 selectable as input/output via M12, PROFIBUS DP connection via M12

Description	Type	Order No
podis®MOT	**FP CM 2I2IO/RS485(SEW)10**	83.252.1006.4

Technical data according to UL	
Nominal voltage (V)	600
Nominal current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	2
Number of outputs	0
Number of HW interfaces serial RS485	1
AS-i specification	0
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable (m)	1.0
Cable type Motor cable (AWG)	14
L x W x H (mm)	254 x 88 x 123
Approvals	cULus

Versions	Type	Order No
Cable length (m) X.X - on request	FP CM 2I2IO/RS485(SEW) XX	83.252.XX06.4

Pre-assembled motor connection cables for *podis*MOT field distributors

Regionally-specific products

Connection cable for MOVI-SWITCH 1E/2S drives (binary)

Connection cable **revos**MOT W 9G AWG16 – 10; e.g. for SEW MOVI-SWITCH 2S, assembled with "Ölflex Control TM 9G AWG 16"; **revos**MOT angled – open cable end; stripping length 190 mm; insluation removal length 7 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	**revos®MOT W 9G AWG16 - 10**	83.312.1012.1

Technical data according to UL	
Rated voltage (V)	600
Rated current (A)	16
Cable type (AWG)	16
Number of poles	9
Design side 1	Plug
Design side 2	open end
Cable end treatment	ultrasonically compressed wire ends
Cable type	Ölflex Control TM 9G AWG 16
Cable diameter (mm)	11.4
Stripping length (mm)	190
Wire strip length (mm)	7
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	1.5	revosMOT W 9G AWG16 - 15	83.312.1512.1
	2.0	revosMOT W 9G AWG16 - 20	83.312.2012.1
	3.0	revosMOT W 9G AWG16 - 30	83.312.3012.1
	4.0	revosMOT W 9G AWG16 - 40	83.312.4012.1
	5.0	revosMOT W 9G AWG16 - 50	83.312.5012.1

Connection cable for MOVIMOT drives (binary)

Connection cable **revos**MOT W 12G AWG16 – 10; e.g. for SEW MOVIMOT, assembled with "Ölflex Control TM 12G AWG 16"; 11x1.5 mm²; **revos**MOT angled – open cable end; stripping length 190 mm; insluation removal length 7 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	**revos®MOT W 12G AWG16 - 10**	83.313.1012.1

Technical data according to UL	
Rated voltage (V)	600
Rated current (A)	16
Cable type (AWG)	16
Number of poles	11
Design side 1	Plug
Design side 2	open end
Cable end treatment	ultrasonically compressed wire ends
Cable type	Ölflex Control TM 12G AWG 16
Cable diameter (mm)	12
Stripping length (mm)	190
Wire strip length (mm)	7
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	1.5	revosMOT W 12G AWG16 - 15	83.313.1512.1
	2.0	revosMOT W 12G AWG16 - 20	83.313.2012.1
	3.0	revosMOT W 12G AWG16 - 30	83.313.3012.1
	4.0	revosMOT W 12G AWG16 - 40	83.313.4012.1
	5.0	revosMOT W 12G AWG16 - 50	83.313.5012.1

Connection cable for SEW MOVIMOT drives (RS485)

Connection cable **revos**MOT W 4 x 2.5 + 2 x 2 x 1.0 mm² - 10; for SEW MOVIMOT; assembled with hybrid cable 4x2.5 + 2 x 2 x 1.0 (C) sw; **revos**MOT angled – open cable end; stripping length 230 mm; insluation removal length 8 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	**HYB4+2X2 REV.MOT W25-10**	83.314.1002.1

Technical data according to UL	
Rated voltage (V)	600
Rated current (A)	16
Cable type (AWG)	14
Number of poles	8
Design side 1	Plug
Design side 2	open end
Cable end treatment	ultrasonically compressed wire ends
Cable type	LI12Y11Y4X2.5+2X2X1.0(C)
Cable diameter (mm)	12.8
Stripping length (mm)	190
Wire strip length (mm)	7
Cable length (m)	1.0
Approvals	-

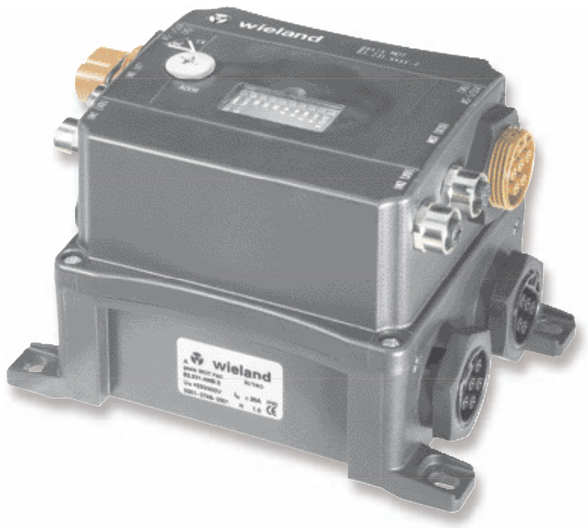
Versions		Type	Order No
Cable length (m)	1.5	HYB4+2X2 revosMOT W25-15	83.314.1502.1
	2.0	HYB4+2X2 revosMOT W25-20	83.314.2002.1
	3.0	HYB4+2X2 revosMOT W25-30	83.314.3002.1
	4.0	HYB4+2X2 revosMOT W25-40	83.314.4002.1
	5.0	HYB4+2X2 revosMOT W25-50	83.314.5002.1

Accessories see page 94 and following.

Features

gesis®MOT for controlling SEW MOVIMOT / MOVI-SWITCH drives

- Power bus and AS-i / 24 V connection via RST20 plug-in system
- Integrated power distribution in the field distributor
- Integrated field bus interface for AS interface
- Digital inputs on M12
- Connection of drive via two pre-assembled connection cables or one twin interconnecting cable
- Plug-in universally to the drive or field distributor
- Detailed diagnosis via LED displays



Designs

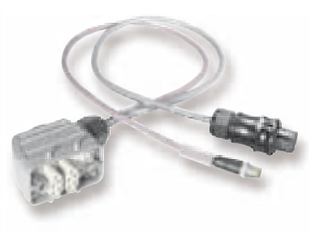
Field distributors for drive control

AS-i ***gesis***®MOT PA C …

PROFIBUS DP **planned**

Accessories

Pre-assembled interconnecting cables for power and communication



Pre-assembled motor connection cables

Field distributors with plug-in

Round cable power bus

gesis®MOT

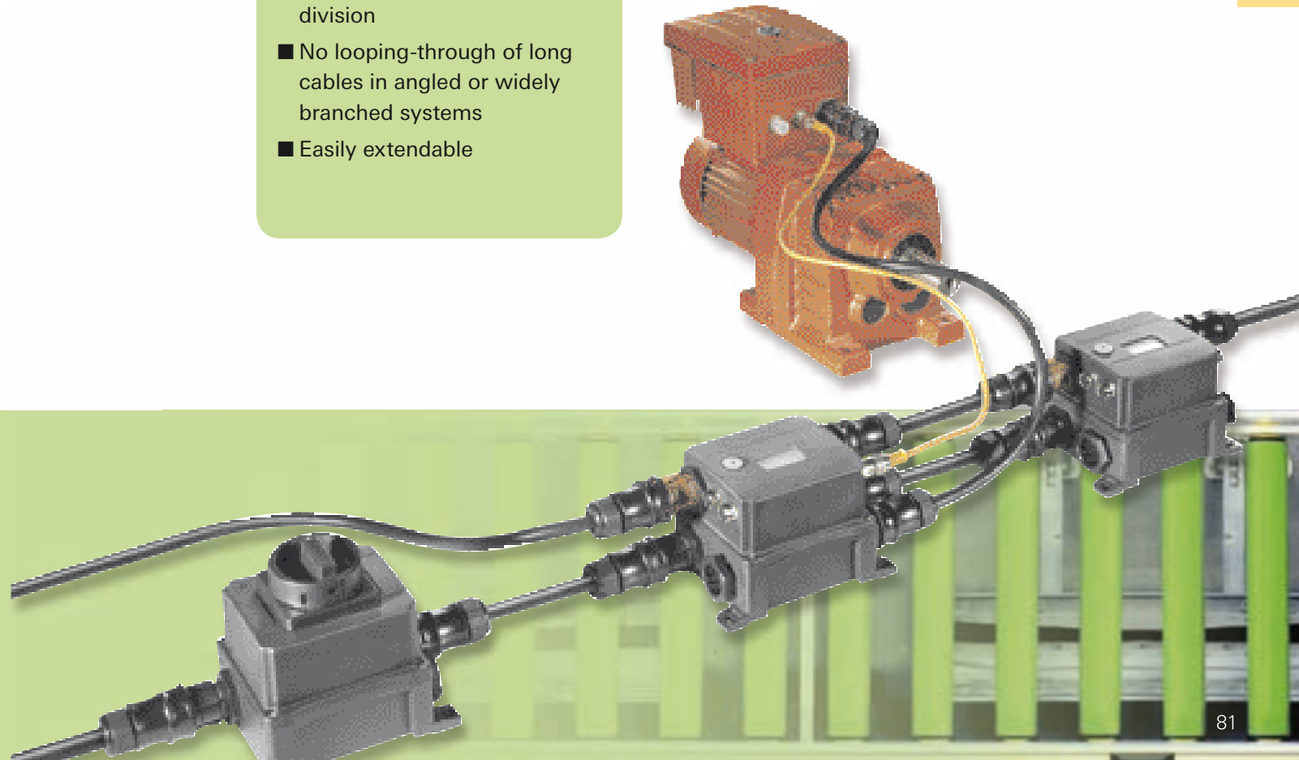
The ***gesis***®MOT field distributors connect remotely controlled drives with the input power supply, the 24 V control voltage, and the field bus. They are based on the bus interface technology with additional connecting technology for power distribution. Mounting the field distributors close to the motors facilitates distributed installation.

The field distributors are optimally compatible with SEW MOVIMOT and MOVI-SWITCH drives for efficient and flexible remote distribution of your system.

In addition, up to three sensors can be connected to the extremely compact housings.

Advantages

- Quick, easy and faultless installation
- Plug-in universally
- Ideal for modular systems or segmented transportation division
- No looping-through of long cables in angled or widely branched systems
- Easily extendable



Field distributors for AS interface
(binary and RS485 interface to the drive)

gesis®MOT PAIC 3I / 1I/4O (binary) AS-i/24 V via round cable

gesisMOT PAIC 3I/1I4O; field distributor at the AS-i for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the plug-in round cable power bus with degree of protection IP 65, standard AS-i slave; connection power (400_VAC) via RST 20i5 (black), AS-i/24 V via RST 20i4 (brown); motor connection plug-in via RST 20i5 for 400 VAC and M12 for binary control (24 V, 0 V, 4 control outputs, 1 control input); 3 digital initiator inputs on M12

Description	Type	Order No
gesis®MOT	**PAIC 3I / 1I/4O**	83.231.0009.5
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1
Number of inputs		4
Number of outputs		4
Number of HW interfaces serial RS485		0
AS-i specification		V3.0
Power bus connection type (400 V)		Plug conn. RST 20i5 black
Field bus/auxiliary power connection type (AS-i/24 V)		Plug conn. RST 20i4 brown
Connection type Sensors		Plug conn. M12
Connection type Motor output		Plug conn. RST 20i5 black
Motor control connection type		Plug conn. M12
L x W x H (mm)		161 x 104 x 96

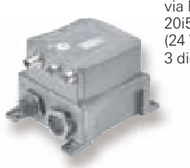
gesis®MOT PAIC 3I/RS485 AS-i/24 V via round cable

gesisMOT PAIC 3I/RS485 (SEW); field distributor at the AS-i for distributed loads (MOVIMOT from SEW) on the plug-in round cable power bus with degree of protection IP 65, standard AS-i slave; connection power (400VAC) via RST 20i5 (black), AS-i/24 V via RST 20i4 (brown); motor connection plug-in via RST 20i5 for 400 VAC and M12 for control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); 3 digital initiator inputs on M12

Description	Type	Order No
gesis®MOT	**PAIC 3I/RS485 (SEW)**	83.230.0009.5
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1
Number of inputs		3
Number of outputs		0
Number of HW interfaces serial RS485		1
AS-i specification		V3.0
Power bus connection type (400 V)		Plug conn. RST 20i5 black
Field bus/auxiliary power connection type (AS-i/24 V)		Plug conn. RST 20i4 brown
Connection type Sensors		Plug conn. M12
Connection type Motor output		Plug conn. RST 20i5 black
Motor control connection type		Plug conn. M12
L x W x H (mm)		161 x 104 x 96

gesis®MOT PA C 3I/1I/4O (binary) AS-i via M12

gesisMOT PA C 3I/1I4O; field distributor at the AS-i for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the plug-in round cable power bus with degree of protection IP 65, standard AS-i slave; connection power (400VAC) via RST 20i5 (black), AS-i via M12; motor connection plug-in via RST 20i5 for 400 VAC and M12 for binary control (24 V, 0 V, 4 control outputs, 1 control input); 3 digital initiator inputs on M12



Description	Type	Order No
gesis®MOT	**PA C 3I/1I/4O**	83.233.0009.5
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		-
Rated operating current auxiliary power (A)		-
Number of inputs		4
Number of outputs		4
Number of HW interfaces serial RS485		0
AS-i specification		V3.0
Power bus connection type (400 V)		Plug conn. RST 20i5 black
Connection type Feldbus (AS-i)		Plug conn. RST 20i4 brown
Connection type Sensors		Plug conn. M12
Connection type Motor output		Plug conn. RST 20i5 black
Motor control connection type		Plug conn. M12
L x W x H (mm)		161 x 104 x 96

gesis®MOT PA C 3I/RS485 AS-i via M12

gesisMOT PA C 3I/RS485 (SEW); field distributor at the AS-i for distributed loads (MOVIMOT from SEW) on the plug-in round cable power bus with degree of protection IP 65, standard AS-i slave; connection power (400VAC) via RST 20i5 (black), AS-I via M12; motor connection plug-in via RST 20i5 for 400 VAC and M12 for control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); 3 digital initiator inputs on M12

Description	Type	Order No
gesis®MOT	**PA C 3I/RS485 (SEW)**	83.232.0009.5
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		-
Rated operating current auxiliary power (A)		-
Number of inputs		4
Number of outputs		4
Number of HW interfaces serial RS485		0
AS-i specification		V3.0
Power bus connection type (400 V)		Plug conn. RST 20i5 black
Connection type Feldbus (AS-i)		Plug conn. RST 20i4 brown
Connection type Sensors		Plug conn. M12
Connection type Motor output		Plug conn. RST 20i5 black
Motor control connection type		Plug conn. M12
L x W x H (mm)		161 x 104 x 96

Pre-assembled motor connection cables for *gesis*®MOT field distributors

Interconnecting cable *gesis*®MOT (binary) – MOVI-SWITCH / MOVIMOT via ASAx

Interconnecting cable ***revos***BASIC RST/M12 ASAx - 10; ***revos***BASIC plug on one side / RST 20I5/M12 8-pole sockets on the other side, assembled with "Ölflex Classic 110" 4x1.5 for power and "PUR" 8x0.25 for communication, twin cable design; cable length: 1000 mm

Description	Type	Order No
revos®BASIC	**RST/M12 ASAx - 10**	83.315.1001.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles		10
Cable type (mm²)		1.5
Design side 1		Plug
Design side 2		Socket
Cable end treatment		-
Cable type		Ölflex Classic 110 4G1.5 + PUR 8x0.25
Cable diameter (mm)		7.2
Stripping length (mm)		-
Wire strip length (mm)		-
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	1.5	RST/M12 ASAx - 15	83.315.1501.1
	3.0	RST/M12 ASAx - 30	83.315.3001.1
	5.0	RST/M12 ASAx - 50	83.315.5001.1

Interconnecting cable *gesis*®MOT (RS485) – MOVIMOT via AMA 6

Interconnecting cable ***revos***FLEX RST/M12 AMA6 - 10; ***revos***FLEX plug on one side / RST 20I5/M12 4-pole sockets on the other side, assembled with "Ölflex Classic" 110 4x1.5 for power and "PUR" 2x0.25 + 2x0.34 for communication, twin cable design; cable length: 1000 mm

Description	Type	Order No
revos®BASIC	**RST/M12 AMA6 - 10**	83.316.1006.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles		8
Cable type (mm²)		1.5
Design side 1		Plug
Design side 2		Socket
Cable end treatment		-
Cable type		Ölflex Classic 110 4G1.5 + PUR 2x0.25+2x0.34
Cable diameter (mm)		7.2
Stripping length (mm)		-
Wire strip length (mm)		-
Cable length (m)		1.0
Approvals		-

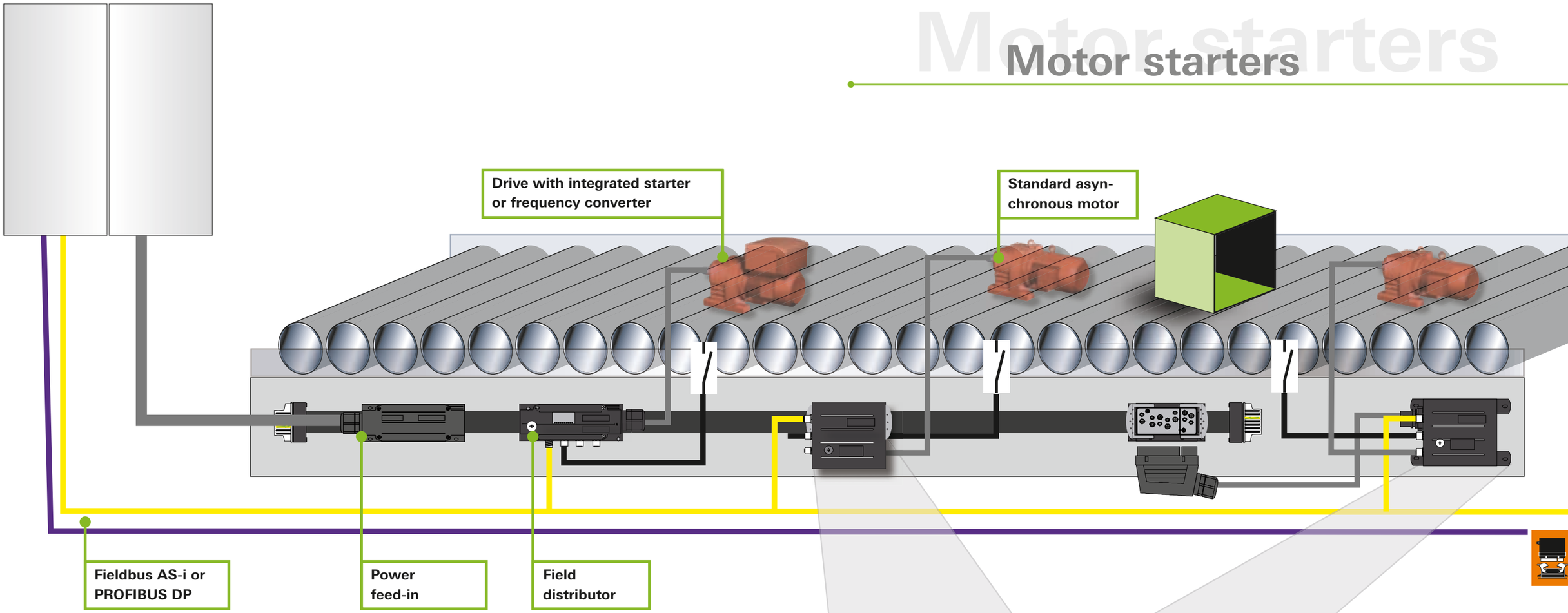
Versions		Type	Order No
Cable length (m)	1.5	RST/M12 AMA6 - 15	83.316.1506.1
	3.0	RST/M12 AMA6 - 30	83.316.3006.1
	5.0	RST/M12 AMA6 - 50	83.316.5006.1

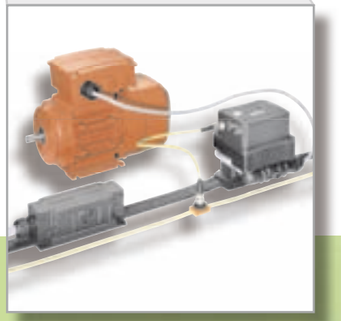
Power bus cables + pluggable connectors see page 50 and following.

For further AS-i accessories, see page 98.

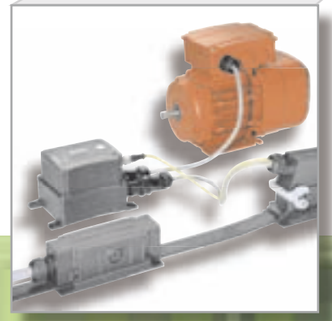
Control cabinet with PLC and power supply

Motor starters

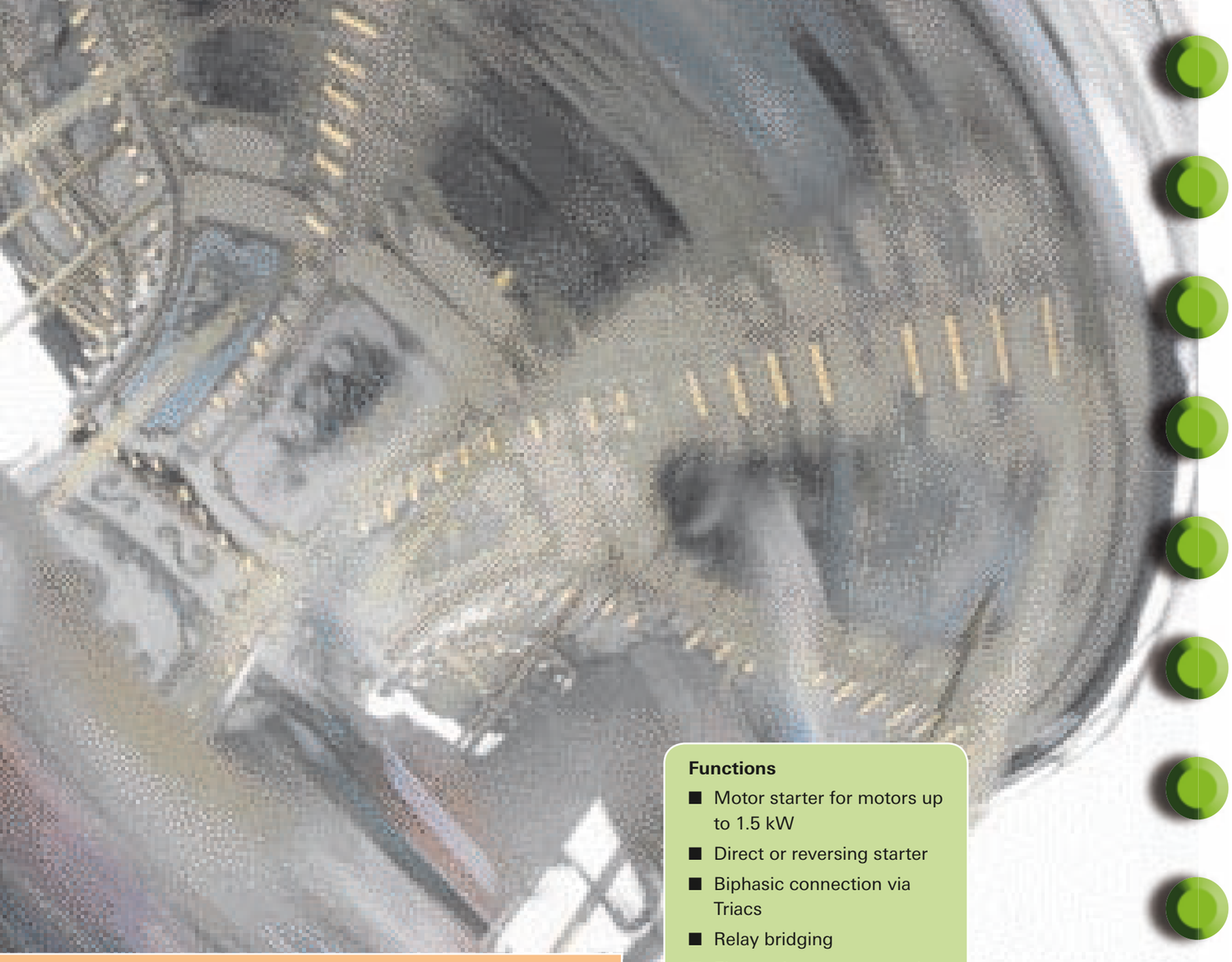




Motor starter
podis®MCU

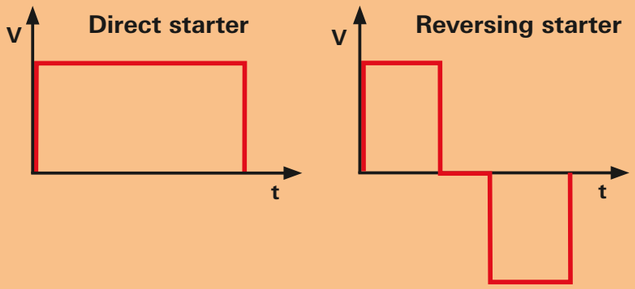


Motor starter
gesis®MCU



Functions

- Motor starter for motors up to 1.5 kW
- Direct or reversing starter
- Biphasic connection via Triacs
- Relay bridging
- Electronic motor protection
- Class-10 switch-off
- Control via AS-i 3.0
- Setting of nominal current values via AS-i parameter download
- 3 sensors connectable via two M 12
- On-site diagnosis via LED displays
- Detailed diagnosis via AS-i
- Degree of protection IP65

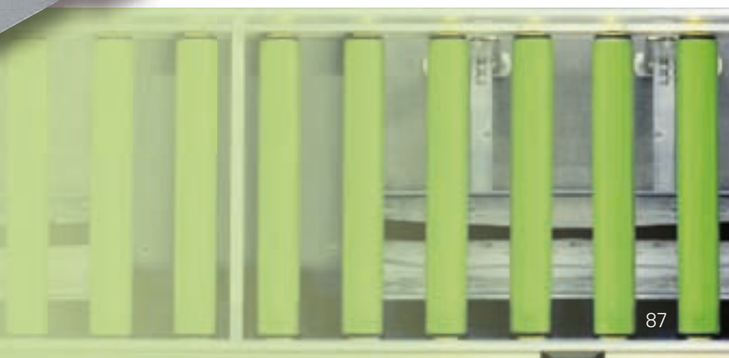


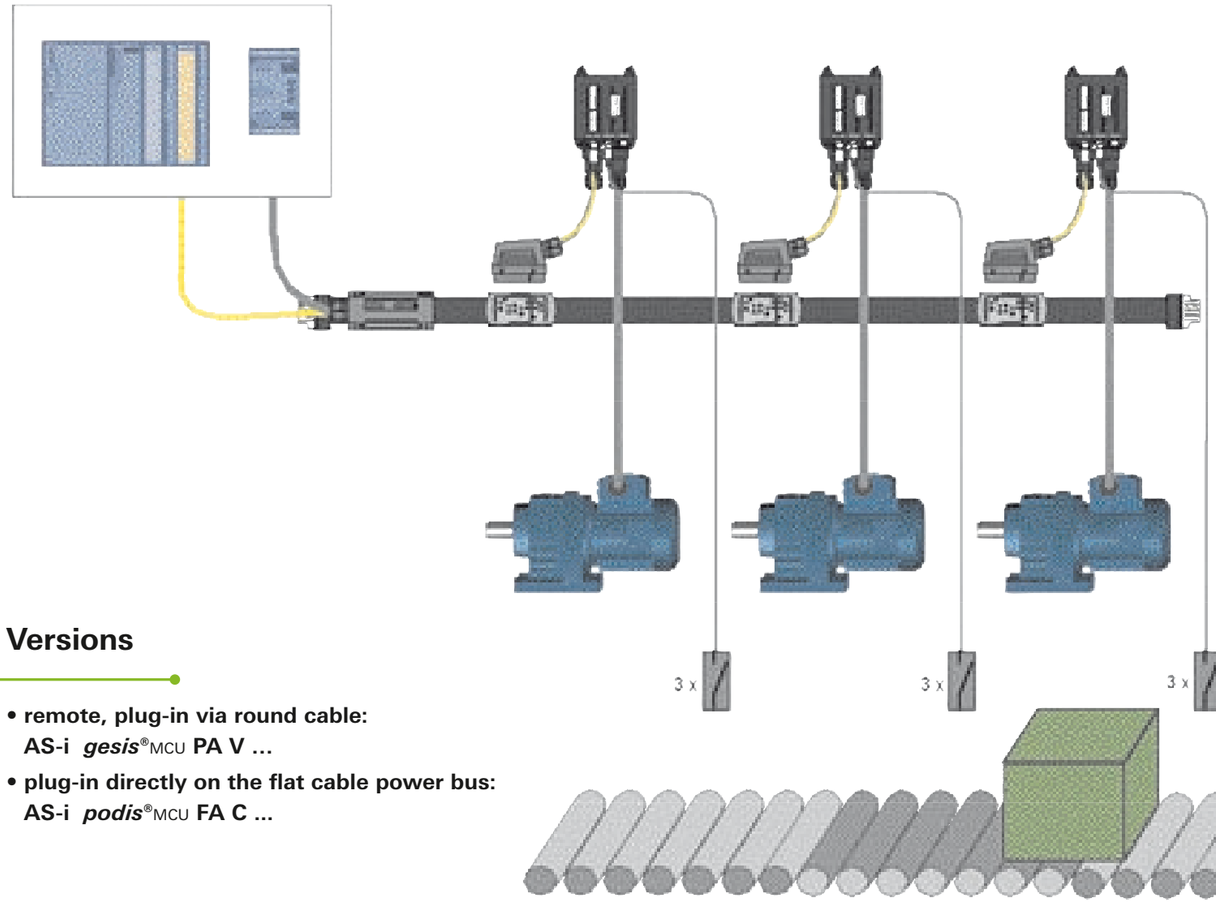
Motor starters

The new ***podis***®MCU and ***gesis***®MCU 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®MCU / ***gesis***®MCU 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 start-up.





Versions

- **remote, plug-in via round cable:**
  AS-i *gesis*®MCU PA V ...
- **plug-in directly on the flat cable power bus:**
  AS-i *podis*®MCU FA C ...

Motor starters

Distributed parameterization via AS-i

Parameterization via AS-i

The motor starters are controlled via AS-i. Setting the motor currents via parameter download reduces the start-up time. Motor currents can be read out and documented using the diagnostic options of the AS-i.

System operators also benefit from the parameter download: When a motor starter is exchanged, the control automatically loads the settings into the motor starter.

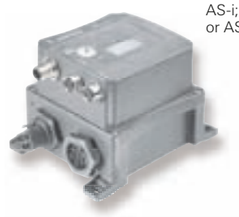
Advantages

- Plug in – load parameters - start
- Easy installation
- Quick start-up through parameterization via PLC
- Relay bridging reduces power loss
- Long life cycle due to electronic switches
- Compact design
- Detailed diagnosis facilitates fault-finding
- High availability due to plug-in system and automatic parameter download

Compact distributed motor starters for AS interface

gesis®MCU PA V 3I/W1,5 Direct/reversing starter, remote

gesisMCU PA V 3I/W1.5; reversing starter for three-phase asynchronous motors with electronic motor protection of 0.09-1.5 kW / 400 VAC; standard AS-i slave; AS-i specification 3.0 for 31 participants; auxiliary power from AS-i; 3 external digital initiator inputs via two M12 sockets; power (400 V) feed-in via RST 20i5 black, plug; motor output via RST 20i5 black, socket; parameterization of nominal motor current, minimum current, current asymmetry, reversing break, blocking of rotational direction (direct starter) via parameter download AS-i; diagnosis on the device via LED or AS interface

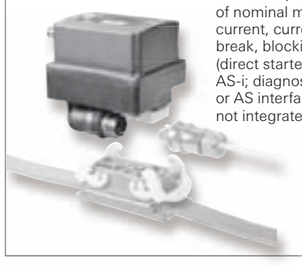


Description	Type	Order No
gesis®MCU	**PA V 3I/W1.5**	83.234.0009.5

Technical data	
Supply voltage of AC 50 Hz (V)	400
Supply voltage - voltage type	AC
Rated operating current of the motor (A)	4.0
Nominal power of the motor (min.- max.) (kW)	0,09 - 1.5
Frequency range (Hz)	50 - 60
Number of inputs	3
Number of motor outputs	1
AS-i specification	V3.0
Slave type	Standard slave
Current consumption of AS-i (mA)	max. 200
Motor current parameterization available	yes
Brake activation	no
Thermal motor protection	no
Switching rate	max. 1000/h
Conductor connection power feed-in	Plug connection RST 20i5
Connection type AS-i	Plug connection M12
Connection type Sensors	Plug connection M12
Connection type Motor output	Plug connection RST 20i5
Degree of protection	IP65
Wall mounting	yes
Mounting orientation	horizontal and vertical
Ambient temperature	-20…+40°C (>40°C Derating)
W x H x D (mm)	104 x 161 x 96
Approvals	-

podis®MCU FA C 3I/W1,5 Direct/reversing starter, direct plug-in

podisMCU FA C 3I/W1.5; reversing starter for three-phase asynchronous motors with electronic motor protection of 0.09-1.5 kW / 400 VAC; standard AS-i slave; AS-i specification 3.0 for 31 participants; auxiliary power from AS-i; 3 external digital initiator inputs via two M12 sockets; power (400 V) plug-in feed via ***podis*** outgoing flat cable FCS 4 7 SI BU (75.015.5153.1); motor output via RST 20i5 black, socket; parameterization of nominal motor current, minimum current, current asymmetry, reversing break, blocking of rotational direction (direct starter) via parameter download AS-i; diagnosis on the device via LED or AS interface, AS-i via M12 socket - not integrated in ***podis***CON flat cable



Description	Type	Order No
podis®MCU	**FA C 3I/W1.5**	83.222.0009.5

Technical data	
Supply voltage of AC 50 Hz (V)	400
Supply voltage - voltage type	AC
Rated operating current of the motor (A)	4.0
Nominal power of the motor (min.- max.) (kW)	0.09 - 1.5
Frequency range (Hz)	50 - 60
Number of inputs	3
Number of motor outputs	1
AS-i specification	V3.0
Slave type	Standard slave
Current consumption of AS-i (mA)	max. 200
Motor current parameterization available	yes
Brake activation	no
Thermal motor protection	no
Switching rate	max. 1000/h
Conductor connection power feed-in	Plug connection ***podis***CON
Connection type AS-i	Plug connection M12
Connection type Sensors	Plug connection M12
Connection type Motor output	Plug connection RST 20i5
Degree of protection	IP65
Wall mounting	yes
Mounting orientation	horizontal and vertical
Ambient temperature	-20…+40°C (>40°C Derating)
W x H x D (mm)	104 x 130 x 137
Approvals	-

Assembled cables for motor starters

Interconnecting cable *podis*®CON for Power / AS-i

Interconnecting cable FCS1.5 7SIFK_RST/M12-10 for connection of ***gesis***MCU motor starter to the ***podis*** power bus, assembled with "Ölflex Classic" 110, 5G1.5 mm² for power; PVC 3x0.34 mm² for AS-i; ***podis***CON connection module - RST 20i5 (power) and M12 (AS-i); cable length 1000 mm

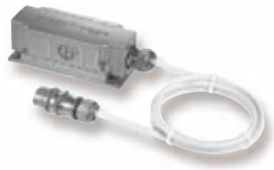
Description	Type	Order No
podis®CON **Interconn. cable**	**FCS1.5 7SIFK_RST/M12-10**	83.306.1001.1

Technical data	
Rated voltage (V)	400
Rated current (A)	16
Number of poles	7
Cable type (mm²)	1.5
Design side 1	Plug
Design side 2	Socket
Cable end treatment	-
Cable type	Ölflex Classic 110 5G1.5 + PVC 3x0.34
Cable diameter (mm)	8.1 & 5.0
Stripping length (mm)	-
Wire strip length (mm)	-
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	1.5	FCS1.5 7SIFK_RST/M12-15	83.306.1501.1

Interconnecting cable *podis*®CON for Power

Interconnecting cable FCS1.5 5SIFK_RST 20i5 -05 for connection of ***gesis***MCU motor starter to the ***podis*** power bus; assembled with "Ölflex Classic 110", 5G1.5 mm² for power; ***podis***CON connection module - RST 20i5; cable length 500 mm



Description	Type	Order No
podis®CON **Interconn. cable**	**FCS1.5 5SIFK_RST -05**	83.307.0501.1

Technical data	
Rated voltage (V)	400
Rated current (A)	16
Number of poles	5
Cable type (mm²)	1.5
Design side 1	Plug
Design side 2	Socket
Cable end treatment	-
Cable type	Ölflex Classic 110 5G1.5
Cable diameter (mm)	8.1
Stripping length (mm)	-
Wire strip length (mm)	-
Cable length (m)	0.5
Approvals	-

Versions		Type	Order No
Cable length (m)	1.0	FCS1.5 5SIFK_RST -10	83.307.1001.1
	1.5	FCS1.5 5SIFK_RST -15	83.307.1501.1
	3.0	FCS1.5 5SIFK_RST -30	83.307.3001.1
	5.0	FCS1.5 5SIFK_RST -50	83.307.5001.1

Motor connection *podis*®/*gesis*®MCU

Round pluggable connector, assembled with cable "Ölflex Classic 110" 5G1.5, plug on one side / free end on the other, cable cross-section: 1.5 mm², color: pluggable connector black, cable black, system: RST 20/4KS-S 15O 10SW, total length: 1 m

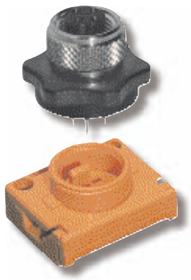
Description	Type	Order No
Assembled cable	**RST20I4KS-S 15O 10SW**	96.442.1084.1

Technical data	
Rated voltage (V)	400
Rated current (A)	20
Number of poles	4
Cable type (mm²)	1.5
Design side 1	Plug
Design side 2	open end
Cable end treatment	ultrasonically compressed wire ends
Cable type	Ölflex Classic 110 4G1.5
Cable diameter (mm)	7.2
Stripping length (mm)	35
Wire strip length (mm)	9
Cable length (m)	1.0
Approvals	-

Versions		Type	Order No
Cable length (m)	2.0	RST20I4KS-S 15O 20SW	96.442.2084.1
	3.0	RST20I4KS-S 15O 30SW	96.442.3084.1
	4.0	RST20I4KS-S 15O 40SW	96.442.4084.1
	5.0	RST20I4KS-S 15O 50SW	96.442.5084.1
	6.0	RST20I4KS-S 15O 60SW	96.442.6084.1
	7.0	RST20I4KS-S 15O 70SW	96.442.7084.1
	8.0	RST20I4KS-S 15O 80SW	96.442.8084.1
	9.0	RST20I4KS-S 15O 90SW	96.442.9084.1

The World of accessories

Whether professional tools, end pieces, or adapters, all of our accessory components comply with legal standards.
Wieland Electric provides the right accessories for every application.



Tools

podis® sample kit

podisCON sample kit

Description	Order No
***podis*® sample kit**	95.400.0200.0

podis®PLAN CD

podisPLAN project planning tool, version 5.5; project planning tool for power bus configuration; tool for project planning of the Wieland ***podis*** power bus; system requirements: Pentium >300 MHz, 64 MByte RAM, Windows 95/98/2000/NT/ME/XP
Please note: licensed version – activation via license key

Description	Order No
***podis*®PLAN CD**	95.502.1010.0

Cutter

Cutter; manual tool for trimming the ***podis*** flat cables
PVC 7x2.5 mm² (00.705.0503.3), EVA 7x4 mm² (00.709.0504.1) and XLPE 7x4 mm² (00.729.0504.1)

Description	Order No
Cutter	95.300.0300.0

Stripping pliers

Stripping tool; manual tool for removing the cable sheath at the cable end of the ***podis***CON flat cable
Please note: suitable for ***podis***CON flat cable PVC 7x2.5 mm² (00.705.0503.3) only

Description	Order No
Stripping pliers	95.350.0300.0

Stripping cutter;

Stripping cutter; manual tool for stripping the ***podis*** flat cable
EVA 7 x 4 mm² (00.709.0504.1) and XLPE 7 x 4 mm² (00.729.0504.1)

Description	Order No
Stripping cutter	95.350.0700.0

Screw driver blade DIN 3128

Screw driver bit Philips size 1; shaft length 45 mm

Description	Order No
Screw driver blade DIN 3128	06.502.5200.0

Power bus

Cable end piece

Cable end piece for ***podis*** flat cable 7 x 2.5 mm² and 7 x 4 mm²; degree of protection IP65; black/transparent

Description	Order No
Cable end piece	Z5.562.7553.1

Feed-through flat cable

Housing feed-through for ***podis*** flat cable 7 x 2.5 mm² and 7 x 4 mm²; degree of protection IP65; black

Description	Order No
Feed-through flat cable	Z5.563.6553.1

Sealing

Blind seal for feed-through Z5.563.6553.1; black

Description	Order No
Sealing	05.563.7983.0

Mounting clip

Mounting clip, light gray

Description	Order No
Mounting clip	05.562.3000.0

Flat cable sleeve

Sealing sleeve for ***podis***CON flat cable, for sealing the contact points, degree of protection IP 65; black

Description	Order No
Flat cable sleeve	Z1.005.6553.1

Cap BAS AD DA 16

Protective cap without locking and without sealing BG 16 for outgoing flat cable 75.015.5153.1

Description	Type	Order No
Cap	**BAS AD DA 16**	07.409.7256.0

Adapter plate 10

Cover plate, size 10, perforated for 1x feed-through Z5.563.6553.1; light gray RAL 7035

Description	Order No
Adapter plate 10	Z5.563.7553.0

Round cable adapter / front side pluggable connector ***podis***®CON

Outgoing round cable FCS 4 7 SA BU SU

podisCON surface-mounting housing, 7 pole 20 A with socket insert for ***podis***CON plug; connection round cable 4 mm² via screw terminal; degree of protection IP65; with locking bracket; color: silver gray RAL 7001

Description	Type	Order No
Outgoing round cable	**FCS 4 7 SA BU SU**	75.015.5535.0

Housing (top part) FCS GOT 16 GB FLD

Top part of housing BAS GOT16 FCS ZH; with ***podis*** flat cable feed-through, for two-hand locking without locking; degree of protection IP65; color: silver gray RAL 7001

Description	Type	Order No
Housing (top part)	**FCS GOT 16 GB FLD**	75.900.1628.0

Housing (top part) FCS GOT 16 GF FLD

Top part of housing BAS GOT16 FCS ZH V; with ***podis*** flat cable feed-through, for two-hand locking; degree of protection IP65; color: silver gray RAL 7001

Description	Type	Order No
Housing (top part)	**FCS GOT 16 GF FLD**	75.900.1528.0

Housing (bottom part) GUT 16 GZ FLD

Bottom part of the housing, closed, BAS GUT16 FCS ZH V; flat cable connection, fixed, with mounting, one lateral ***podis*** flat cable feed-through, with two-hand locking, color: silver gray RAL 7001

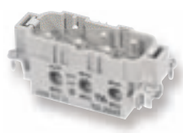
Description	Type	Order No
Housing (bottom part)	**FCS GUT 16 GZ FLD**	75.900.1028.0

Socket insert POW BUS 6 6.0 69 AG

revos POWER 6 pole + PE, socket insert, 690 V/35 A screw connection

Description	Type	Order No
Socket insert	**POW BUS 6 6,0 69 AG**	72.200.0653.0

Plug insert POW STS 6 6.0 69 AG



revos POWER 6 pole + PE, plug insert, 690 V/35 A screw connection

Description	Type	Order No
Plug insert DIN 3128	**POW STS 6 6,0 69 AG**	72.210.0653.0

Cable screw connections

Cable screw connection M 20 x 1.5 black

Cable screw connection M 20 x 1.5 for round cables with outer diameter 7-13 mm; compatible with 75.010.0053.1 and 75.016.2053.1; color: black, RAL 9005

Description	Type	Order No
Cable screw connection	**M 20 x 1,5 black**	Z5.507.1353.1

Cable screw connection M 20 x 1.5 with AS-i insert

Cable screw connection M 20 x 1.5 for AS-I profile cable, compatible with 75.010.0053.1 and 75.016.2053.1; color: black, RAL 9005

Description	Type	Order No
Cable screw connection	**M 20 x 1,5 MIT AS-i-Eins.**	Z5.505.0653.1

Lock nut M 20 x 1.5 black

Lock nut M 20 x 1.5, compatible with screw connections Z5.507.1353.1 and Z5.505.0653.1; color: black, RAL 9005

Description	Type	Order No
Lock nut	**M 20 x 1,5 black**	05.505.0153.1

Cable screw connection M 25 x 1.5 black

Cable screw connection M 25 x 1.5 for one round cable with outer diameter 9-16 mm; compatible with 75.010.0053.1, 75.015.0151.2 and 75.018.0051.2; color: black, RAL 9005

Description	Type	Order No
Cable screw connection	**M 25 x 1,5 black**	Z5.507.1453.1

Cable screw connection M 25 x 1.5 black

Cable screw connection M 25 x 1.5 for one round cable with outer diameter 13-18 mm; compatible with 75.015.0151.2, 75.018.0051.2 and 75.010.0053.1; color: black, RAL 9005

Description	Type	Order No
Cable screw connection	**M 25 x 1,5 black**	Z5.507.1553.1

Lock nut M 25 x 1.5 black

Counter nut M 25 x 1.5, compatible with screw connections Z5.507.1453.1 and Z5.507.1553.1; color: black, RAL 9005

Description	Type	Order No
Lock nut	**M 25 x 1,5 black**	05.505.0253.1

AS-i Accessories

AS-i protection *podis*®CON AS-i S PG

AS-i surge protection integrated in AS-i flat cable connection clip PG 13.5; against over-coupling during switching operations or short circuits, AS-i certification; black

Description	Type	Order No
AS-i protection	***podis*®CON AS-i S PG**	83.198.0600.0

AS-i protection *podis*®CON AS-i S LTG

Surge protection AS-i and DC 24 V, surge protection for DC 24 V and AS-i in a cup, potted; against over-coupling during switching operations or short circuits, features: for in-plug installation, connection modules

Description	Type	Order No
AS-i protection	***podis*®CON AS-i S LTG**	83.198.1600.0

AS-i branch cable

AS-i branch cable M12 plug straight on socket straight; length 300 mm

Description	Order No
AS-i branch cable	83.209.2203.0

AS-i pick-off M12

AS-i pick-off M12; can be used as pick-off distributor or plug, re-usable penetration technique acc. to IEC 68 and DIN 41611

Description	Type	Order No
AS-i pick-off M12		83.209.2201.0

Cable screw connection M 20 x 1.5 with AS-i insert

Cable screw connection M 20 x 1.5 for AS-i profile cable, compatible with 75.010.0053.1 and 75.016.2053.1; black RAL 9005

Description	Type	Order No
Cable screw connection	**M 20 x 1,5 mit AS-i-Eins.**	Z5.505.0653.1

Addressing device AS-i PPG1

AS-i manual programming unit PPG 1; addressing of AS-i slaves (sensors, actuators)

Description	Type	Order No
Addressing device	**AS-i PPG1**	83.209.2204.0

Programming cable AS-i 1.5m

AS-i programming cable 1.5 m; interconnecting cable module – manual programming unit, connection: M12 for programming unit and plug for addressing socket on the ***podis*** AS interface module

Description	Type	Order No
Programming cable	**AS-i 1,5M**	83.209.2205.0

PROFIBUS DP Accessories

PROFIBUS DP terminating resistor M12

PROFIBUS DP plug with terminating resistor M12

Description	Type	Order No
Bus end piece	**terminating resistor M12**	08.000.0230.0

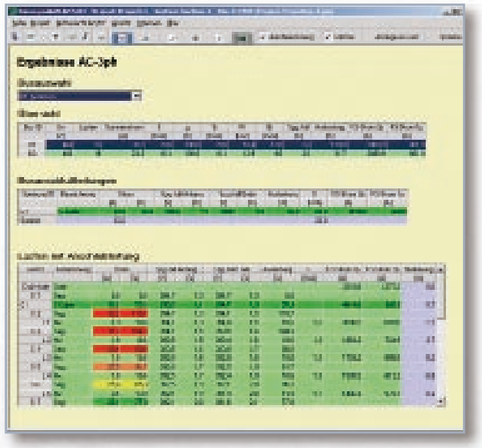
Round cable connection RVDP SW12 BW12 06

M12 interconnecting cable RVDP SW12 BW12 06; B-coded, plug angled to socket angled; shielded, for PROFIBUS DP, cable length 600 mm

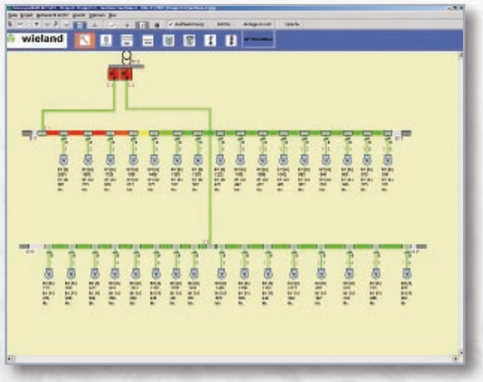
Description	Type	Order No
Round cable connection	**RVDP SW12 BW12 06**	83.403.0611.9

Technical data	
Number of poles	3
Cable length	0.6 m
Sheath material	PUR (Polyurethane)
Sheath color	violett
Connection side 1 (housing side)	M12
Cable connection side 1	angled
Connection side 2 (field side)	M12
Cable connection side 2	angled
Design side 2	Female (socket)
Approvals	-

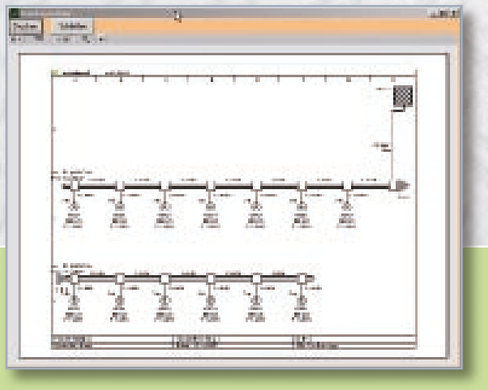
Versions		Type	Order No
Cable length (m)	1.0	RVDP SW12 BW12 10	83.403.1011.9
	2.0	RVDP SW12 BW12 20	83.403.2011.9
	3.0	RVDP SW12 BW12 30	83.403.3011.9
	5.0	RVDP SW12 BW12 50	83.403.5011.9
	7.0	RVDP SW12 BW12 70	83.403.7011.9
	10.0	RVDP SW12 BW12 100	83.403.9911.9



Results are provided in diagram or table form.



During data entry, calculation is already performed in the background; overload and faults are color-highlighted in the diagram. For documentation, calculation results can either be stored using the project explorer, or printed out.



Entry of group protection, cable and load parameters:

Graphically configure your systems with component arrangements. Select and enter protective devices, cable and load parameters, conveniently, via input masks.

Enterparameters:

- Enterposition at the power bus
- Selection and adjustment of protective devices
- Enter short circuit current IK

Load parameters:

- Connection position at the power bus
- Power consumption and load current
- Cos phi
- Permissible voltage drops
- Simultaneity factor
- Load designation

Installation parameters:

- Installation type
- Cable cross-section and number of loaded cables
- Ambient temperature
- Number and cross-sections of supply cables and power bus

Calculation:

Based on the system configuration, ***podis***®PLAN calculates the permissible static load and issues the following characteristics according to the parameters entered:

- Total power and total current (AC and DC)
- Short circuit current (AC and DC)
- Voltage drop
- Current carrying capacity
- Total and segment lengths
- Meter lengths

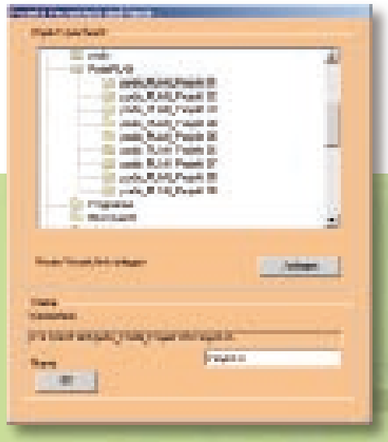
Project planning tool ***podis***®PLAN

project planning tool ***podis***®PLAN

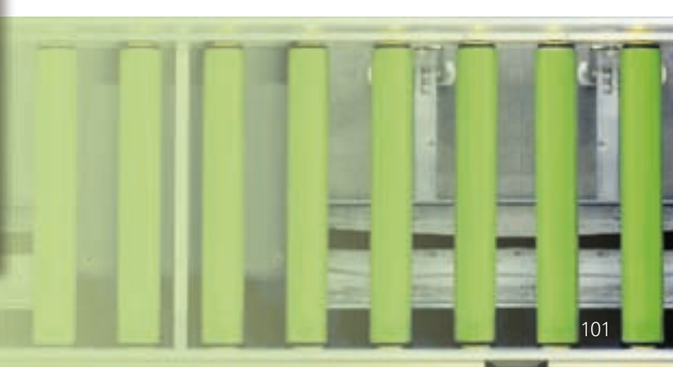
As a power distribution system for distributed supply at field level, the power bus offers substantial savings potential during the installation, mounting, and startup phases. Instead of a star-shaped distribution from control cabinet to the individual loads, the loads are remotely supplied via a power bus which distributes power, control voltages and / or data.

The results of the configuration calculations on capacity utilization, voltage drop, and short circuit are required to efficiently configure the system and to evaluate protective measures.
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, i.e. in the initial project planning phase.



Order No 95.502.1010.0



Safety is a matter of confidence

The demands on facilities, machines and vehicles are high these days. Apart from the productivity and efficiency of a machine or vehicle, the focus is also increasingly on safety. Designing modern means of transportation, facilities and machines also requires consideration of the safety of the persons working with these machines or using these means of transportation.

Reliable and innovative solutions are needed that contribute to meeting this important requirement without affecting the productivity and availability of the facility or means of transportation. With its **SMA series**, **4000 series**, ***samos***® and ***samos***®PRO, Wieland Electric offers superior quality safety components which can contribute substantially to safety in production and operation of modern facilities or machines.

More information is available in the "Safety first" brochure.

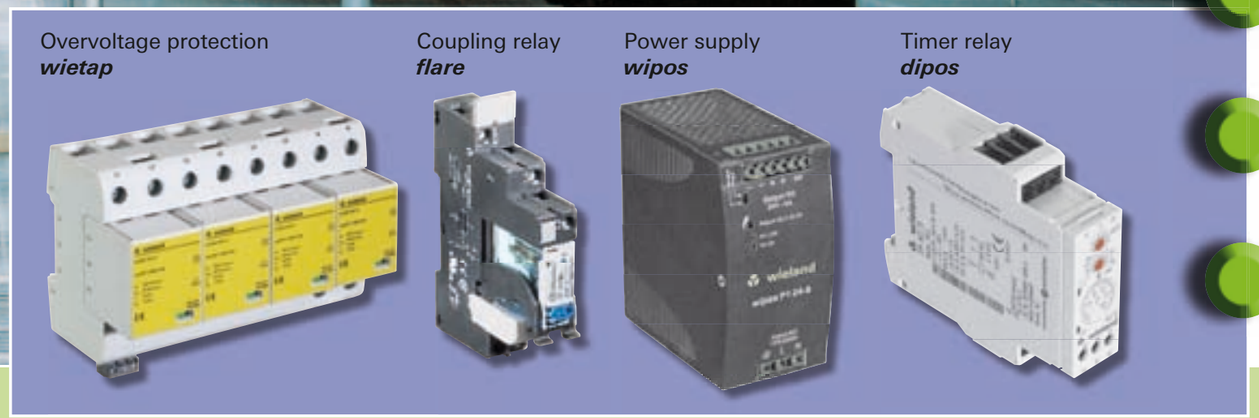
Order No. 0152.0

Compact safety control ***samos***®PRO

Modular safety units ***samos***®

Universal safety relays **Series 4000**

Reliable signal detection **Series SMA/SNH**



Electronic components

for Devices or control systems

Power supply

With the reliable Wieland Electric primary switched-mode regulators, you always have the voltage you need in the control cabinet. We also provide customized solutions on request.

Transfer modules

Our development team specializes in the production of electronic and electro-mechanical transfer assemblies, tailored to your needs - whether you are a machine manufacturer, system integrator, or control manufacturer.

Measuring and monitoring relays

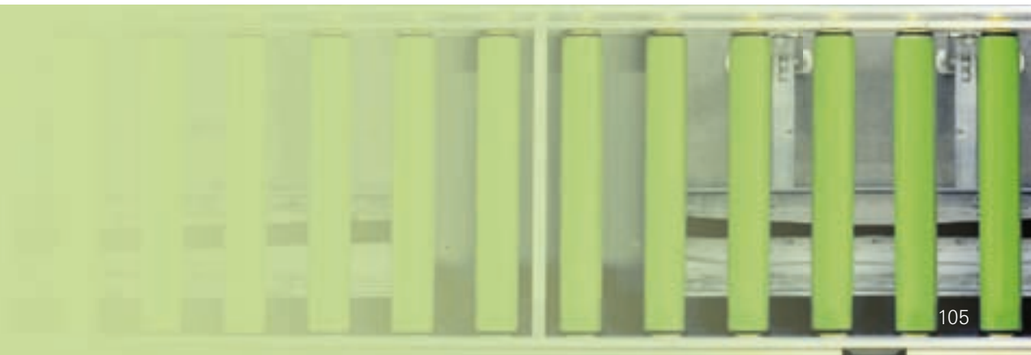
are available in reliable electro-mechanical design or in numerous electronic versions. Devices are available for different functions - voltage and current measurement, grid monitoring, motor protection and monitoring relays and temperature monitoring.

Overvoltage protection

Switching operations generate transients which lead to a permanent load on electrical appliances. To prevent this situation, suitable transient arresters must be installed on current supply interfaces and on data and telecommunication interfaces. With their ***wietap*** (power supply) and ***wietam*** (data and telecommunications) series, Wieland Electric offers suitable devices.

Relays and timer relays

Depending on the required application, relay modules with different operating voltages, contact arrangements, contact materials, and housings or designs are available. Apart from the purely mono-stable functionality, timer relays or manual-0-automatic relays can be supplied.



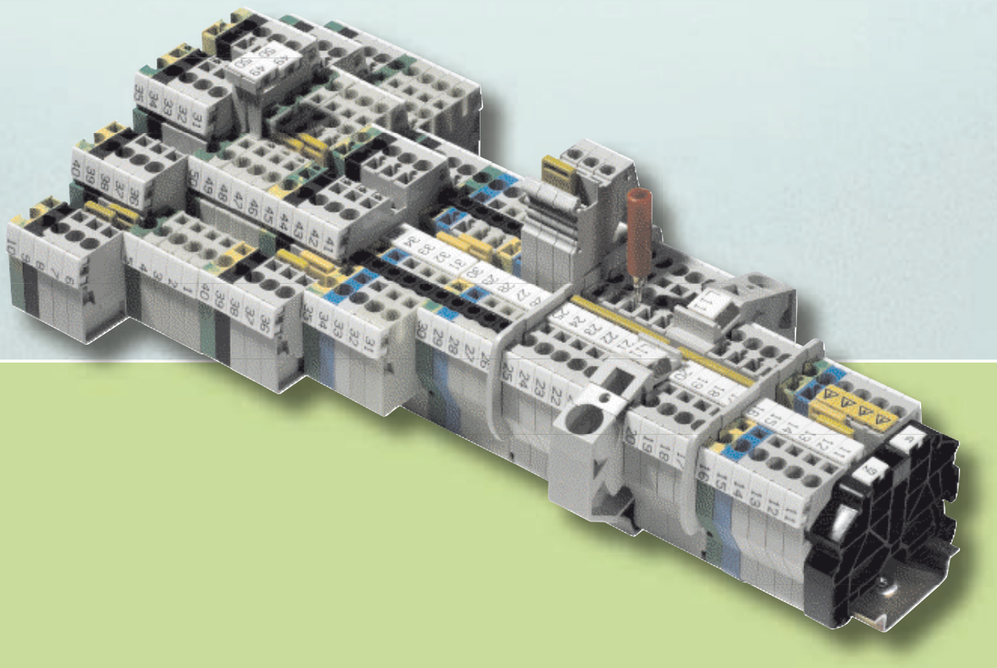
fasis, selos, taris®
Innovative rail terminal blocks

Terminal blocks are a standard connection element in all areas of conveyor technology. In intralogistics and the automotive industry, as well as in conventional electric installation of warehouse and logistics buildings, terminal blocks are used for the distribution of signals and energy.

Wieland Electric rail terminal block product lines

- ***fasis*** – Rail terminal blocks with tension and plug-in spring connection
- ***selos*** – Rail terminal blocks with screw connection
- ***taris®*** – Rail terminal blocks with IDC connection (Insulation Displacement Connection)

High mechanical stability and contact stability make Wieland terminal blocks especially suitable for the demands of the logistics industry. Whether for explosion and fire protection, vibration and shock resistance, or international approvals for worldwide applications, Wieland Electric provides solutions using all types of connection technology on the market.

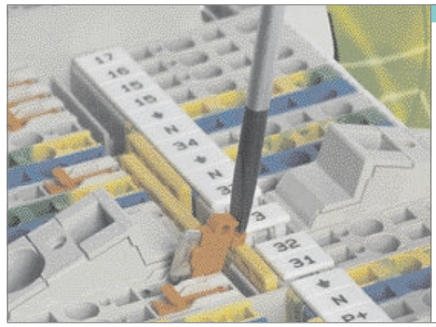


Application

Wieland Electric supplies superior quality products for user specific applications.

***fasis* / *selos* / *taris®* rail terminal block system features:**

- Reliable functionality
- Efficient applications
- Customized to your needs



Functionality and system

Terminal blocks are electrical wire connection systems and can be found wherever electrical energy is generated, transferred and distributed.

System components for measuring and control tasks are, e.g.:

- Isolating terminals
- Fuse blocks
- Function blocks

Planning and configuration

wieplan was developed to provide you with a powerful software tool for configuring terminal block assemblies using Wieland rail terminal blocks.

- Configuring terminal block assemblies
- Data exchange with CAE systems
- Ordering terminal block assemblies
- Issuing drawing and parts lists

Pre-assembly and installation

For customers who want to save time and work on the control cabinet, Wieland Electric offers pre-assembled, fully equipped terminal blocks – even with connected conductors, if desired.

The following applies to the purchase of single components:

- Wieland **Quick24** delivery service
- Hand held tools for accessories
- Software tools

fasis – Terminal blocks with tension spring connection

The product line includes feed-through blocks and ground blocks with 2-, 3- or 4-conductor connection points, multi-tier blocks in 2- and 3-tier design, knife-edge disconnect blocks in 1- and 2-tier design and fuse blocks. In addition, functional terminals with application-specific diode circuits are also available.

Because of its vibration-resistant tension spring connection, ***fasis***WKFN is suitable for applications in rail vehicles.

Special catalog
fasis – Terminal blocks with tension spring connection
Order no: 0124.0

selos – Terminal blocks with screw connection

The product line includes feed-through and ground blocks with 2-, 3- or 4-conductor connection points, multi-tier blocks in 2- and 3-tier design, knife-edge disconnect blocks and fuse blocks. In addition, functional terminals with a wide variety of diode circuits and various application-specific special terminals such as transducer disconnect blocks or resistor compensation terminals are also available.

selos has been designed for applications in mechanical engineering and plant construction, as well as for explosion-protected areas.

Special catalog
selos – Terminal blocks with screw connection
Order no: 0125.0

taris® – Terminal blocks with IDC connection

The WKC series permits the connection of copper wires with Insulation Displacement Connection. The IDC technology allows a connection to be made without prior stripping of the conductor. The advantages of this connecting technology lie in the economic efficiency of this procedure, as the stripping of wire and application of ferrules become obsolete. The time savings compared with customary wiring technologies can be up to 60 %.

Whether explosion and fire prevention, vibration and shock protection or international certifications, ***taris***® brings innovation to your application – worldwide.

Special catalog
taris® – Terminal blocks with IDC connection
Order no: 0123.0

*fasis*BIT / *selos*BIT – Terminal blocks for the junction box

Increasing automation in buildings and the safety functions to be installed in buildings increase the requirements for energy and signal management in electrical distribution systems. The growing number of circuits require a terminal block system that can be used in confined spaces and reduces the wiring effort, thereby lowering costs and still offering clear and effective wiring. Wieland Electric terminal blocks meet these requirements and offer you the right solution. The product series ***fasis***BIT / ***selos***BIT is designed for use in distribution systems and takes the standardized dimensions for small and field distribution boards with covers according to DIN 43871 into account.

Special catalog
selos / ***fasis***BIT – Terminal blocks for the junction box
Order no: 0117.0

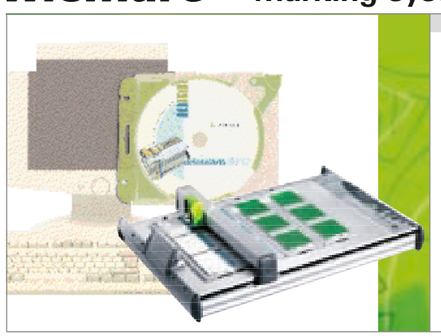
wieplan – Configuration software for terminal blocks

wieplan provides a powerful software tool for configuring terminal strips with Wieland terminal blocks.

wieplan is available in 4 languages. Operation is user-friendly and the intuitive user interface guides you step-by-step through the entire configuration process. You then have the option of ordering the configured terminal strip from Wieland – completely pre-assembled. Save valuable time and money with ***wieplan***!

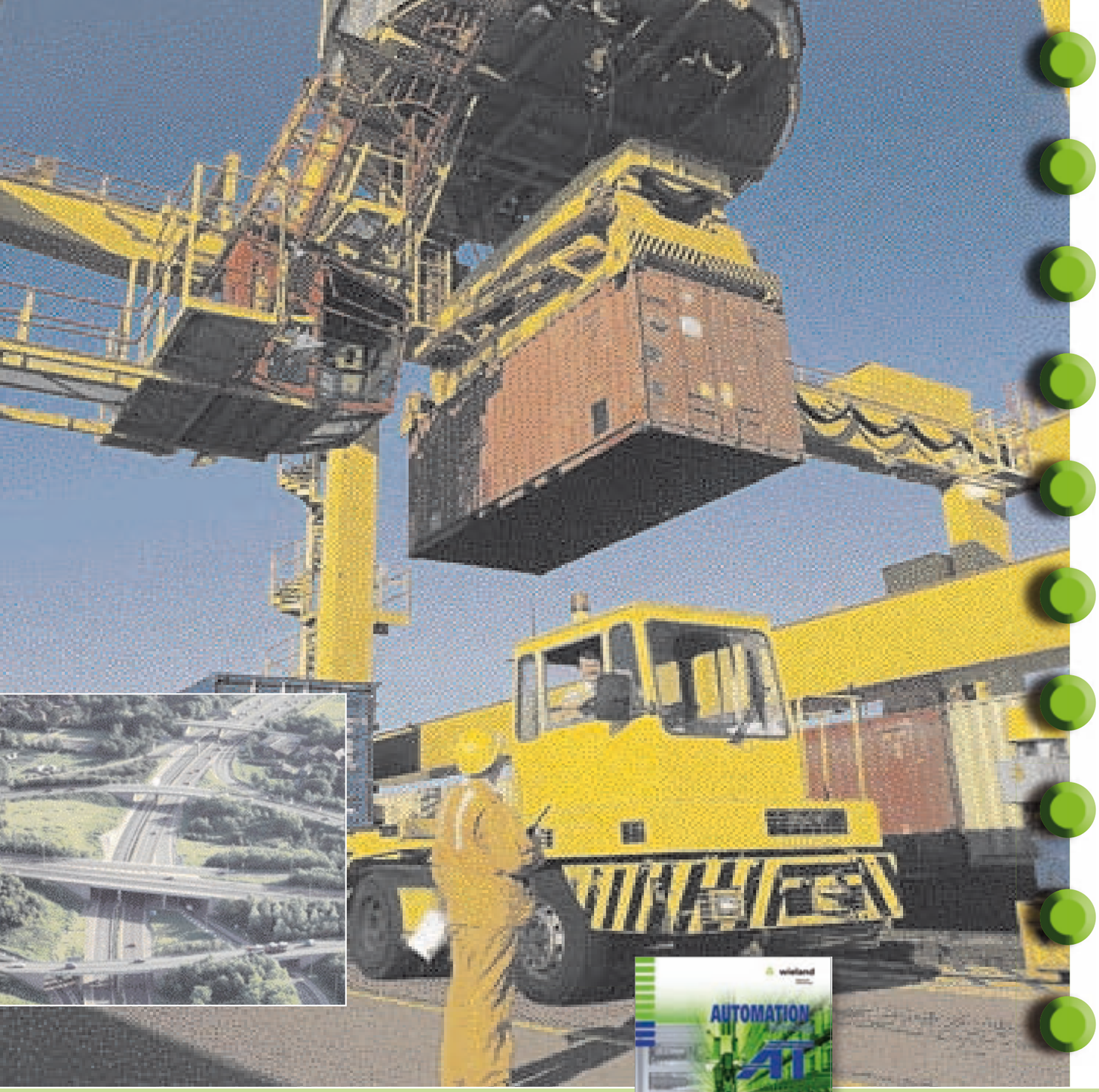
Customer information *wieplan*
Order no: 0120.7

wiemarc – Marking system for terminal blocks



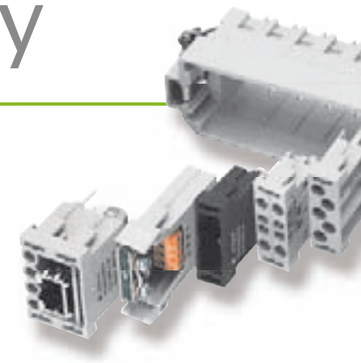
Wieland Electric named individual labeling of terminal blocks ***wiemarc*** and ***wieplot***. The ***wiemarc*** software offers you the greatest possible flexibility when labeling your terminal strips. In combination with ***wieplot***, the wiemarc software provides you with a high-performance labeling system to professionally perform any labeling task - from labeling a marking tag to mass-labeling your terminal strips.
But ***wieplot*** offers you even more! In addition to marking tags for terminal blocks, you can also print stickers, labels or cable markers, and with a simple conversion, you can turn your plotter into a high-performance engraving system.

Customer information *wiemarc*
Order no: 0120.8



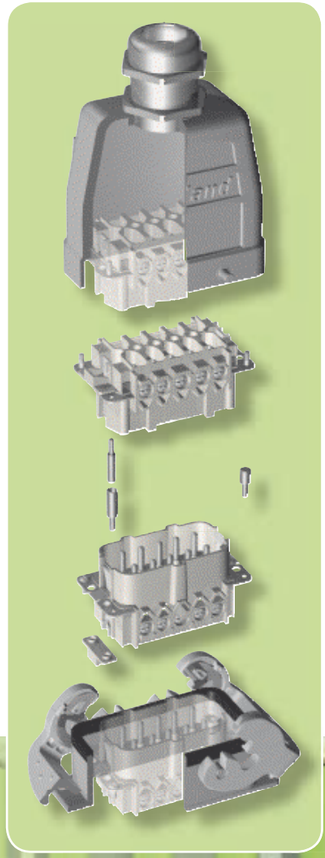
For any application –

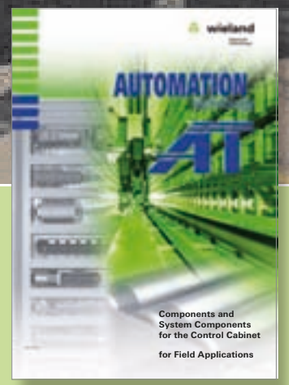
Heavy-duty
industrial connectors



The ***revos*** heavy-duty industrial connectors are categorized according to their housings, contact inserts and connection technology. A wide range standard program, as well as modular components that can be combined, as required, is available:

- ***revos*** BASIC with 6 to 92-pole contact inserts
- ***revos*** POWER high-current pluggable connector for currents up to 100 A
- ***revos*** HD multi-pole pluggable connector with up to 64 poles and up to 10 A
- ***revos*** FLEX modular hybrid pluggable connector system to equip your connector, as needed, with mixed contact inserts, including signal, pneumatics and fiber optic cable applications
- ***revos*** BASIC EMV for applications where electromagnetic interferences may neither be emitted nor coupled

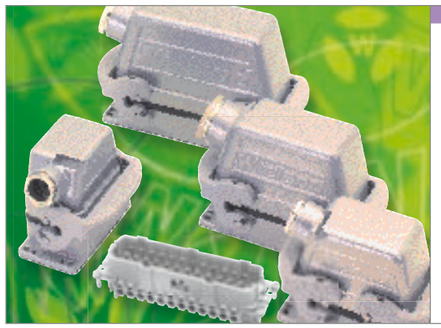




For further information please see the "Automation Technology" main catalog.

Order No. 0101.0

revos BASIC



The conventional industrial connector. The die-cast aluminum housing with powder-coated surface provides reliable protection. The contact inserts come in 6-92-pole design. ***revos*** BASIC meets the highest demands and is used in the automotive industry, mechanical and system engineering, conveyor systems, and process measuring and control technology.

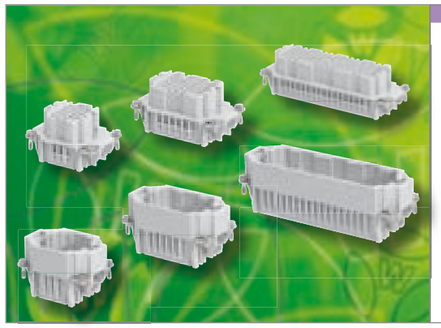
revos POWER

The Wieland Electric high current pluggable connector. Contact inserts and multipole adapters accommodate currents exceeding 16 A and are also available in a contact mix with screw connection. Contact inserts and adaptors are protected inside the ***revos*** BASIC housings. ***revos*** POWER applications include mechanical and system engineering for small drives, motors, pumps and frequency converters.

revos HD

revos HD is designed specifically for multi-pole pluggable connectors. The robust housings provide space for contact inserts with 15 to 64 poles and are designed for currents up to 10 A (in compliance with DIN EN 17 5301-801). ***revos*** HD proves its strengths in mechanical and systems engineering, in escalators, small motors and injection molding machines.

revos DD



High contact density in a very limited space – this is what ***revos*** DD space-saving contact inserts offer. The inserts are compatible with BASIC housing sizes 6/6H-, 10/10H-, 16/16H-, and 24/24H. They are connected with reliable, twisted 1.6 mm crimp contacts and a connecting range of 0.14 – 2.5 mm^2 at a rated voltage of 250 V.

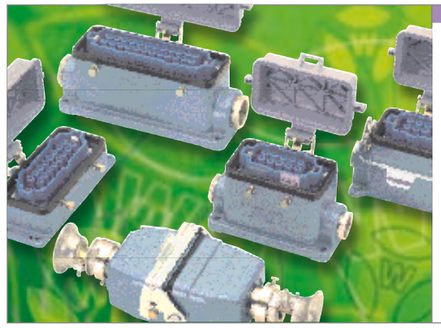
revos FLEX

Do you want a customized industrial pluggable connector for your specific application? No problem, thanks to ***revos*** FLEX. With this modular and flexible system, you are free to equip your pluggable connector according to your needs. The smart solution for any tasks in mechanical and systems engineering, in process measuring and control technology and the automotive industry.

revos MINI

Small but robust. Thanks to its extremely compact contact inserts with 3 to 8 poles, ***revos*** MINI can be integrated in applications for mechanical, control systems and control engineering, small motors and lighting engineering. Its zinc die-cast or polyamide pluggable connector housing helps ***revos*** MINI to withstand rough ambient conditions.

revos Ex



In explosion hazardous areas such as mining or the chemical industry, electrical components need to meet specific requirements. The ***revos*** Ex series provides heavy-duty pluggable connectors especially designed for systems where explosion protection is absolutely essential. The BVS (Association of Publicly Certified and Qualified Experts) testing institute approved the use of ***revos*** Ex in zone 1 for intrinsically safe circuits.

revos IT

In some applications, the data cable feed-through must be protected by a heavy-duty pluggable connector. ***revos*** IT is the ideal solution. These connectors facilitate the feeding of pre-assembled cables into a closed, sealed housing with strain relief. D-sub plug-in connections are available with 4 to 100 poles. ***revos*** IT protects data transmission to PLCs or to measuring and encoder lines.

Service

Hotline numbers:

Questions for the sales department: availability, delivery time and prices Phone +49 951 9324-990

Technical questions regarding product features and application options of our products as well as functionality and equipment:

Area of Automation technology:

- Terminal blocks ***fasis, selos, taris®*** Phone +49 951 9324-991
- Safety engineering ***safety*** Phone +49 951 9324-999
- Decentralized I/O ***ricos***, Phone +49 951 9324-995
  current supply, overvoltage protection, measuring and monitoring relays, time lag relays, belt relays, analog modules, passive interfaces ***interface***
- Decentralized power distribution ***podis®*** Phone +49 951 9324-998
- Industrial plug connector ***revos*** Phone +49 951 9324-997
- Device terminals, European terminal strips, empty housings Phone +49 951 9324-993
- PCB terminals ***wiecon*** Phone +49 951 9324-994

Fax: +49 951 9326-991
e-mail: AT.TS@wieland-electric.com

Area of facility installation technology:

- System plug connectors for building installation ***gesis®, gesis*** ELECTONIC Phone +49 951 9324-996
- Terminal blocks ***fasis*** BIT, ***selos*** BIT Phone +49 951 9324-992

Fax: +49 951 9326-996
e-mail: BIT.TS@wieland-electric.com

General information and news:
www.wieland-electric.com

Our subsidiaries

... and the addresses of our sales representatives, located worldwide, are available at:
www.wieland-electric.com

USA
Wieland Electric Inc.
49 International Road
Burgaw, N.C. 28425
Phone +1-910-259 5050
Fax +1-910-259 3691

CANADA
Wieland Electric Inc.
2889 Brighton Road
Oakville, Ontario L6H 6C9
Phone +1-905-829 8414
Fax +1-905-829 8413

GREAT BRITAIN
Wieland Electric Ltd.
Riverside Business Centre,
Walnut Tree Close
GB-Guildford /
Surrey GU1 4UG
Phone + 44 (1483) 531 213
Fax + 44 (1483) 505 029

FRANCE
Wieland Electric SARL.
103, Chemin de Ronde
F-78290 Croissy-sur-Seine
Phone +33-1-30 15 07 07
Fax +33-1-30 15 07 14

SPAIN
Wieland Electric S.L.
C/ Maria Auxiliadora 2 bajos
E-08017 Barcelona
Phone +34-93-252 3820
Fax +34-93-252 3825

ITALY
Wieland Electric S.r.l.
Via Edison, 209
I-20019 Settimo Milanese
Phone +39-02-48 91 63 57
Fax +39-02-48 92 06 85

POLAND
Wieland Electric Sp. Zo.o.
Poznań Swadzim
ul. Św. Antoniego 8
62-080 Tarnowo Podgórne
Phone +48 61 84 09-101
Fax +48 61 84 07-166

CHINA
Wieland Electric Trading
Unit 2106 International
Soho City 889 Renmin Road
Huangpu District
PRC- Shanghai 200010
Phone +86-21 63 555 833
Fax +86-21 63 550 090

CZECH REPUBLIC
Wieland Electric s.r.o.
Nadražní 1557
356 01 Sokolov
Phone +420-352 302 046
Fax +420-352 302 027

More information for ordering and downloading literature is available from our websites.