

podis®
Decentralized Automation
System Catalog





▲ Plant II, Rodezstraße in Bamberg



▲ Company headquarters in Bamberg



▲ STOCKO main plant in Wuppertal



wieland group

AT HOME ALL OVER THE WORLD

Wieland Electric GmbH is a medium-sized family-run electrical and electronics company headquartered in Bamberg. Founded in 1910, Wieland is one of the pioneers of electrical connection technology.

This family business with its international outlook is a market leader in pluggable installation technology for functional buildings, with subsidiaries worldwide and production lines not only in Bamberg but also in the Czech Republic and China.

The Wieland Group, which has included STOCKO Contact GmbH & Co. KG since 1998, is therefore represented in over 70 countries and employs some 2,200 people.

Solutions for

 ***Building technology***

 ***Wind power***

 ***Machine building***

 ***Lighting technology***

 ***Heating, ventilation, air conditioning***



Wieland at a glance

Our range of products and services for your industry



Product portfolio

- Electronic and electrical engineering for the control cabinet
- Safety technology
- Network and fieldbus systems
- Energy bus systems for industry and buildings
- Connectors up to protection rating IP6X
- Building automation
- PCB terminals and plug connectors
- Sensor/actuator cabling



Industries

- Machine building
- Construction machines & cranes
- Buildings and lighting
- Logistics
- Power engineering
- Renewable energy sources
- Heating and air conditioning systems



Business services

- Pre-assembly and wiring
- Product labeling service
- Integrated solutions in distributors
- Customized solutions
- On-site project support
- Optimization of decentralized, pluggable installation solutions
- Certified machine safety tests



Safety training

- Software validation
- CSE Certified Safety Engineer
- Basic principles and standards of functional safety
- Modification of old machinery and major changes
- Design of safety functions and calculation with Sistema
- Machinery Directive, liability issues, and CE Declarations of Conformity



Software/configuration tools

- **wieplan** CLICK2BUY, configuration of terminal strips with online ordering function
- **wieprint**, marking system for DIN rail terminal blocks
- **revos** configurator for connectors
- **gesis**[®]PLAN for building installation
- **podis**[®]PLAN for configuring the **podis**[®] energy bus system
- **samos**[®]PLAN6, programming tool for **samos**[®]PRO COMPACT
- **hmi**PLAN, visualization software for HMI touch panels















Why Wieland?

- Standardized industrial solutions
- Customized solutions
- Support for your project
- Broad product portfolio
- Products usable worldwide due to international licenses
- Group-wide observance of human rights, including at suppliers
- Eco-friendly production



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podis® – Decentralized automation

The power bus solution with flat cable power bus

Remote

Remote automation means installing switching and control functions near the consumer device in the field and avoiding costly central cabling. This way you follow the trend set by the fieldbuses. The advantage is flexible, individual machine and system concepts and enormous gains of time during the installation. With the **podis®** power bus system, a unique solution for remote power distribution and automation in factory and building automation has come into being.

The insulation-penetrating contact without stripping the wire creates maximum flexibility, both during initial installation as well as during upgrades.

The uncut flat cable power bus is designed for installations in rough industrial environments; even damp ambient conditions do not restrict the application. To connect the field devices, fixed or pluggable power branches, preassembled cable sets and on-site maintenance switches are available.

podis®ELECTRONIC function modules can be mounted separately or directly on the power outputs. Direct, reversing or soft starter for three-phase asynchronous motors, field distributor for connection to SEW MOVIMOT drives, up to power-saving and long-lasting LEDS offer a wide application field in remote automation. Customer-specific functions Can be easily integrated into the available modular housing concept.

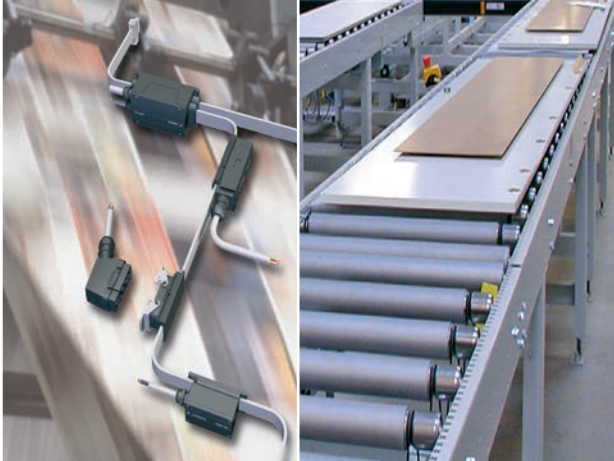
Sturdy housings in higher protection class take on remote functions such as

- I/O motor actuation
- Motor starter
- Maintenance sockets or
- High-power LED lights.

The connection is faultless without stripping insulation through insulation-penetrating contact.

podis®-power bus solutions reduce the installation times, cut project costs and increase the flexibility of system expansions or later planning changes.

Remote and central installation compared
see Page 16 | 17.



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.



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
- 5- and 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



podis®

The right solution for every Application

10



Airport logistics

- Baggage conveyor technology
- Cargo conveyor technology

11



Automotive

- Skid conveyor technology
- Power & Free systems
- Floor conveyor technology
- Pulling chain conveyors
- Pallet conveyor technology

12



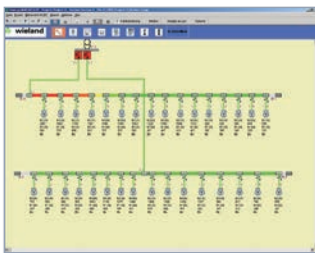
Intra logistics

- Roller conveyors
- Belt conveyors
- Chain conveyors
- Pallet transportation
- Package conveyors

Consultation | Flexibility | Diverse applications

As system supplier, we take a comprehensive and goal-oriented approach to our customers' wishes and requirements. Each new application presents a challenge to the system engineers.

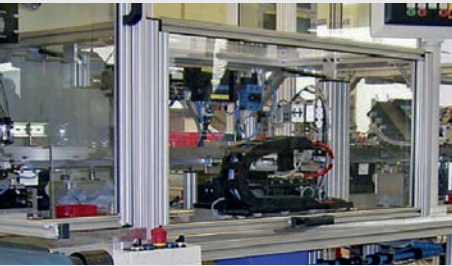
We support you in selecting the right solution.



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.

More Information about **podis**® PLAN on page 68 | 69.

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Mechanical engineering

- Packaging machines
- Robots
- Assembly and production lines
- Food production

14



Wind energy systems

- Tower lighting
- Maintenance sockets
- Emergency lighting

15



Cranes, shafts, tunnels

- Gantry cranes
- Special cranes
- Ascents/descents
- Work areas



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?

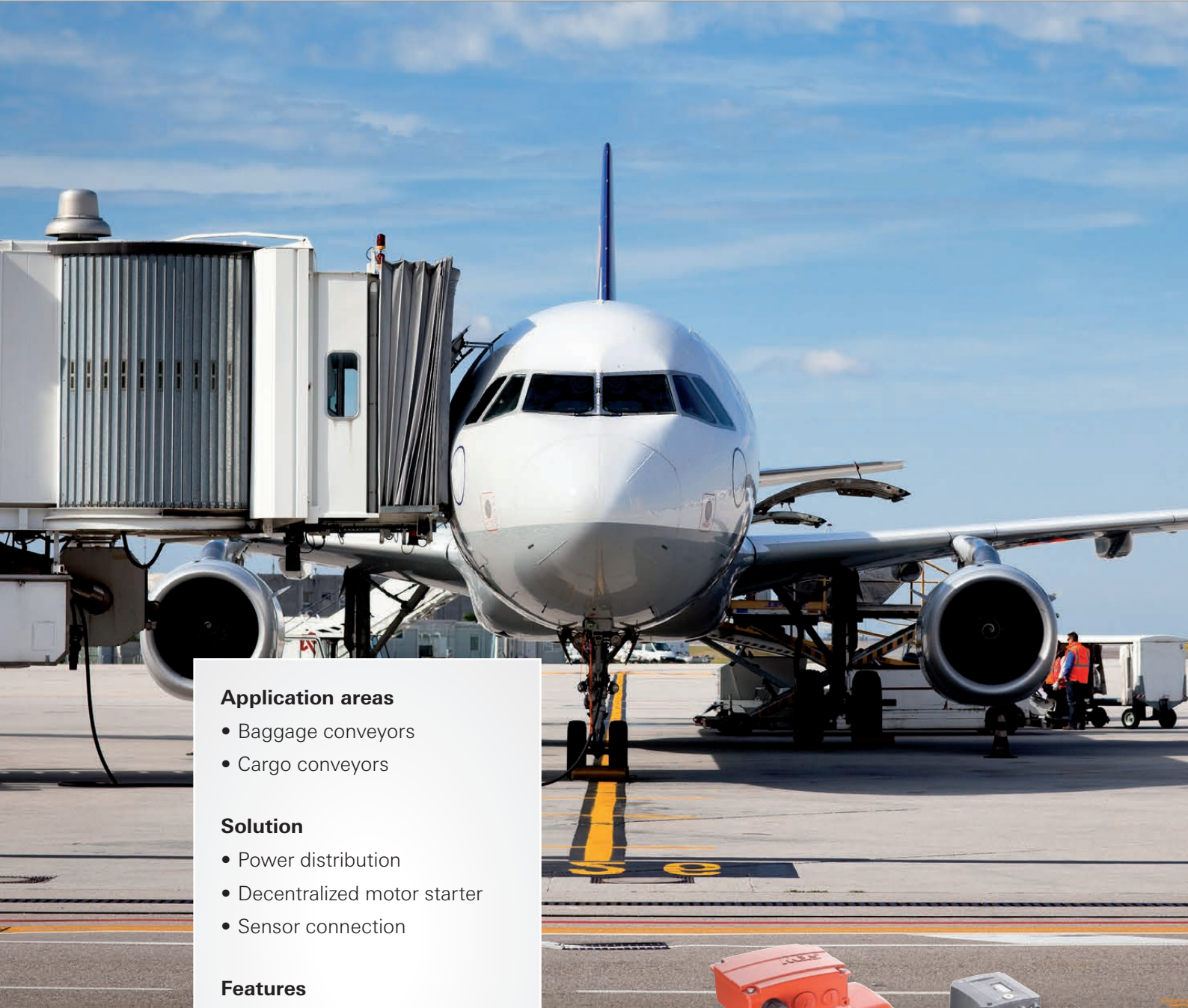
Which drives and motor starters are required - direct / reversing starter or frequency converter; remote or motor-integrated?

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 ...?

Solutions for Airport Logistics



Application areas

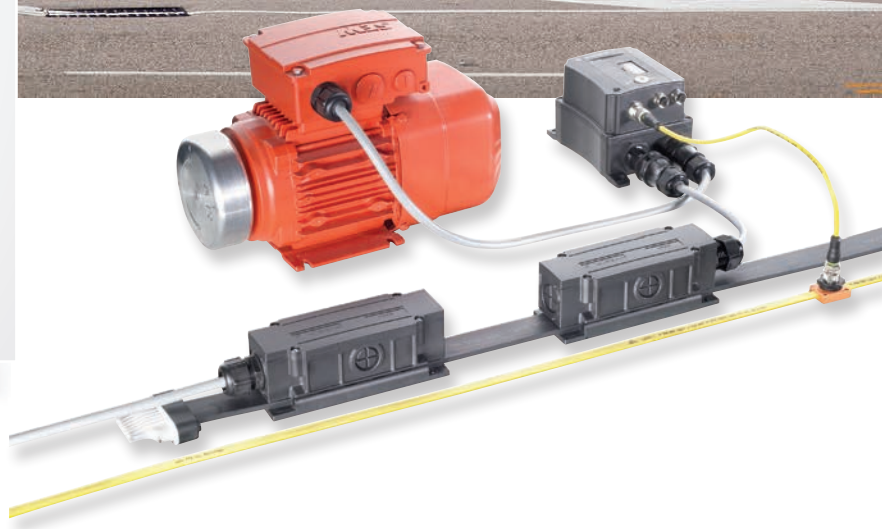
- Baggage conveyors
- Cargo conveyors

Solution

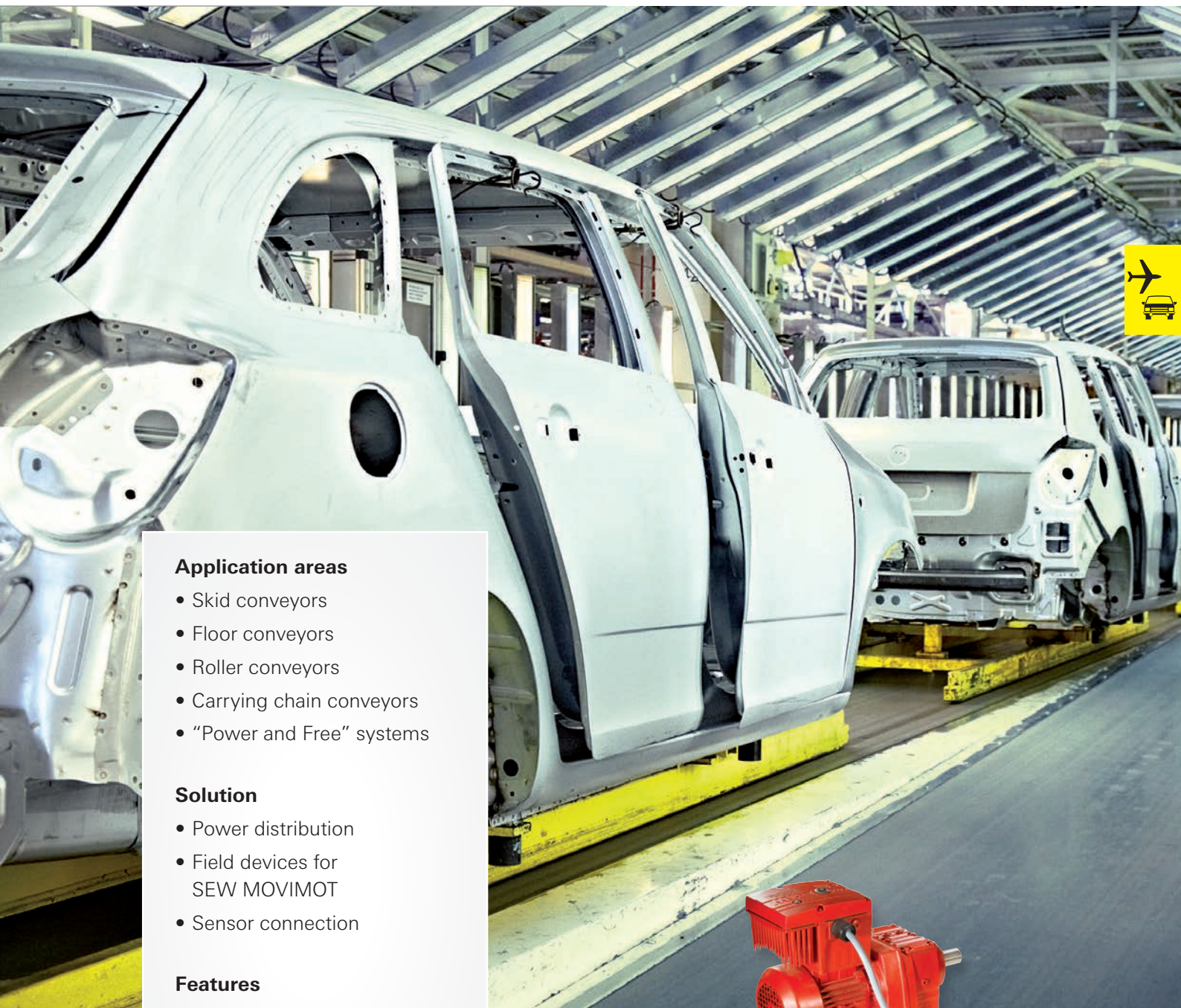
- Power distribution
- Decentralized motor starter
- Sensor connection

Features

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



Solutions for Automotive



Application areas

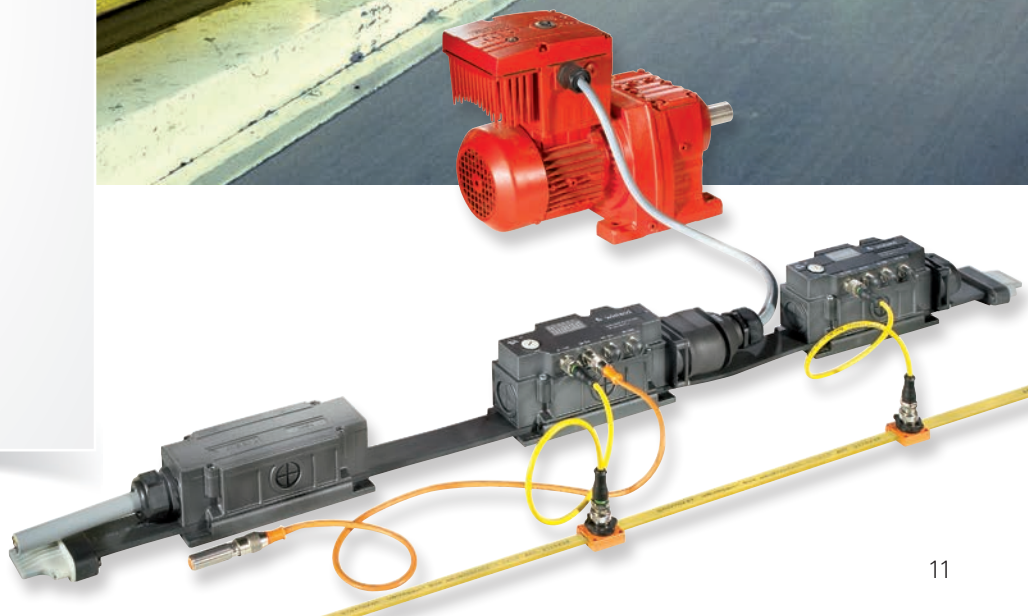
- Skid conveyors
- Floor conveyors
- Roller conveyors
- Carrying chain conveyors
- "Power and Free" systems

Solution

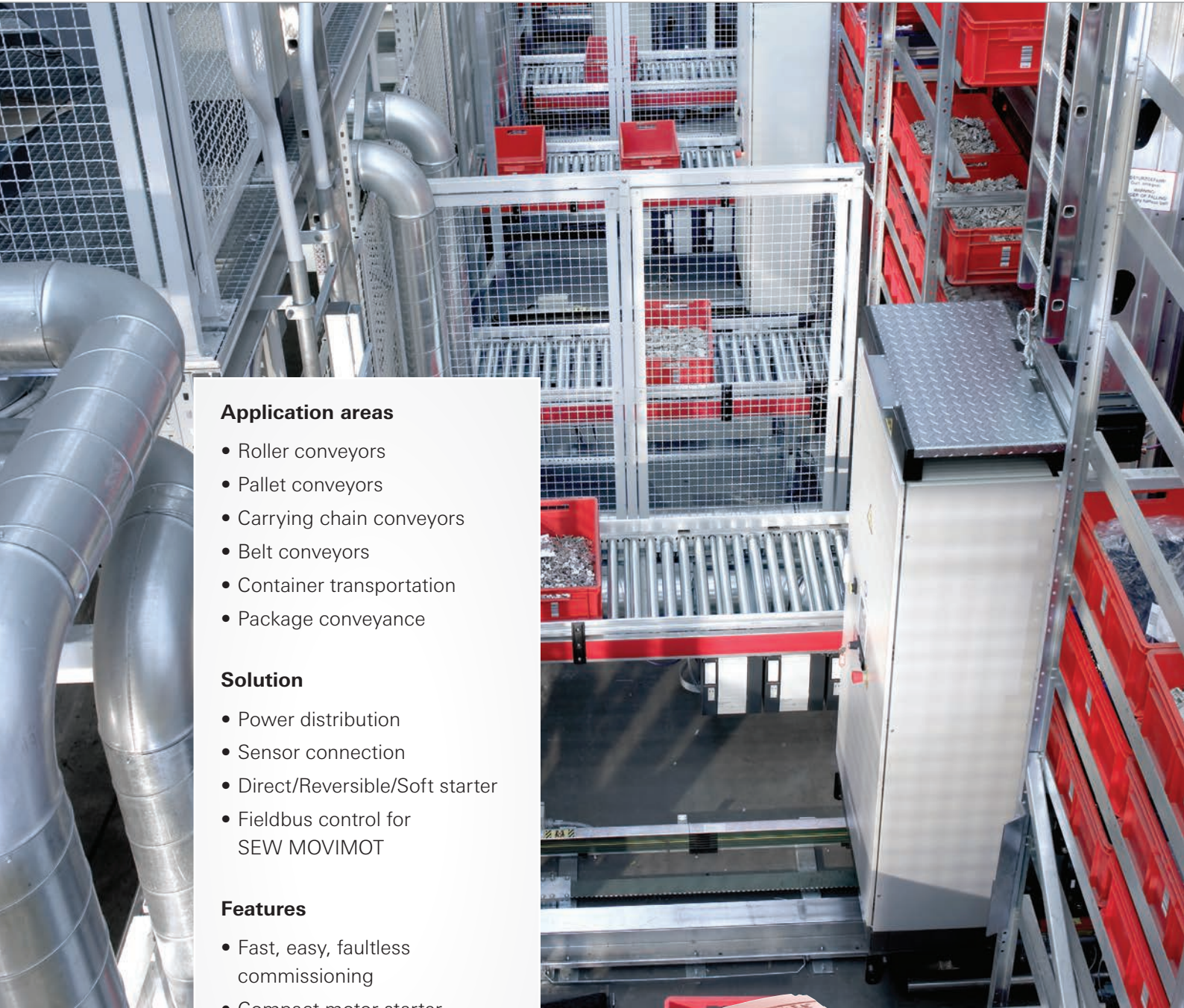
- Power distribution
- Field devices for SEW MOVIMOT
- Sensor connection

Features

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



Solutions for Intra logistics



Application areas

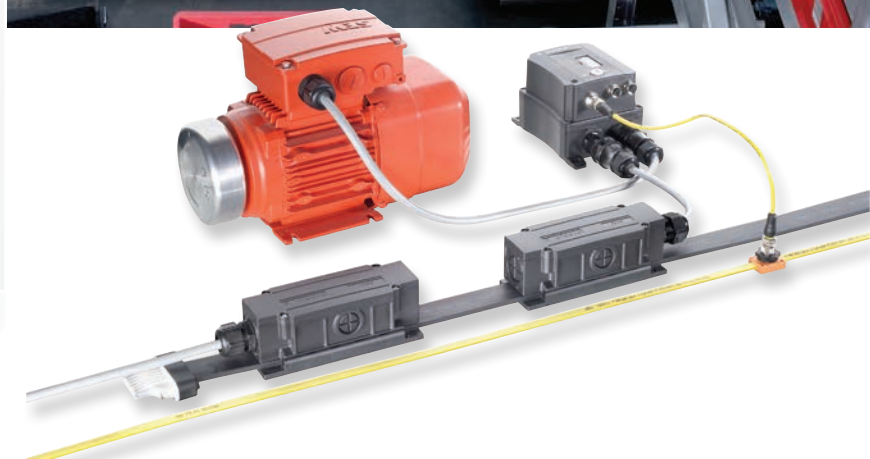
- Roller conveyors
- Pallet conveyors
- Carrying chain conveyors
- Belt conveyors
- Container transportation
- Package conveyance

Solution

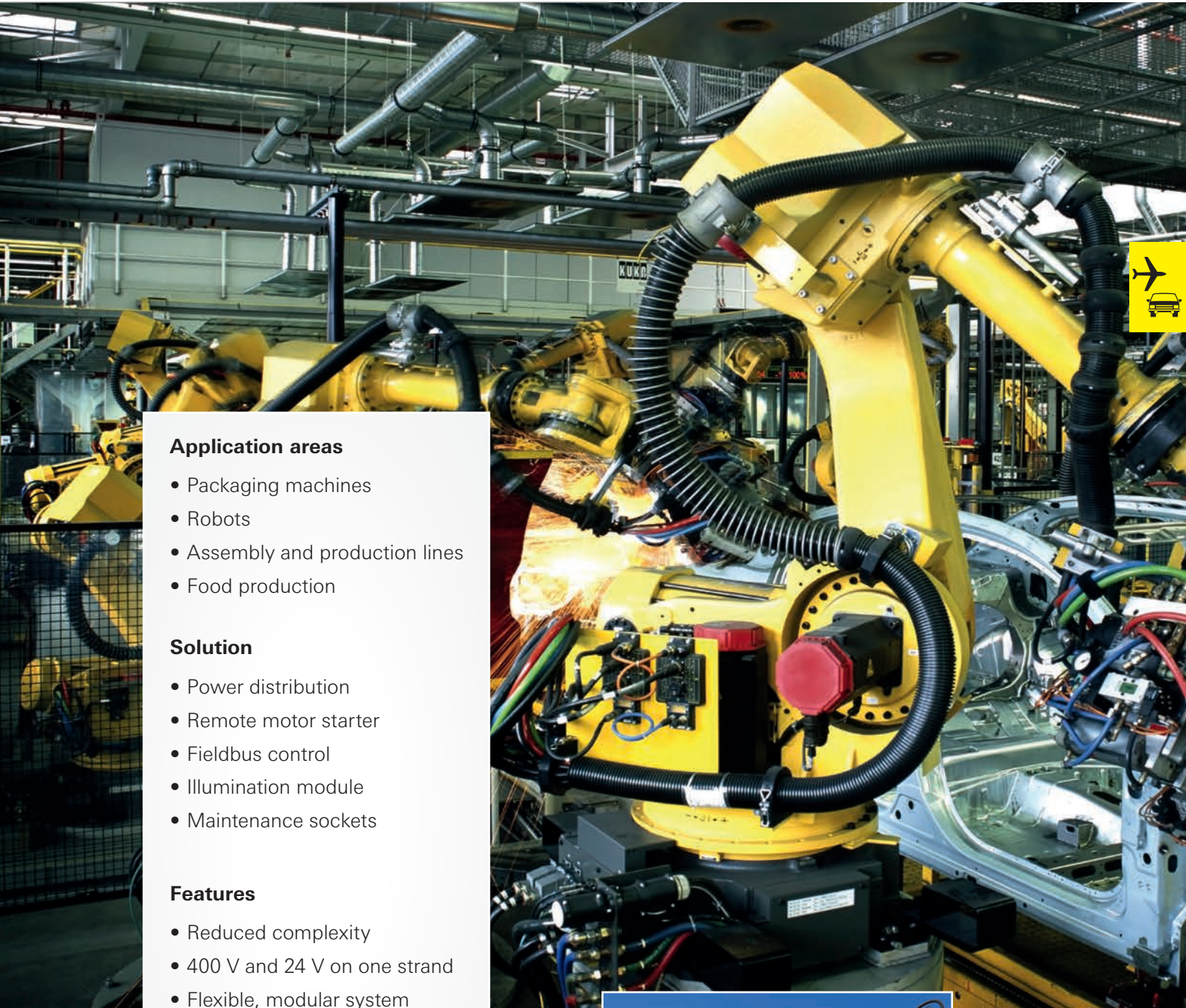
- Power distribution
- Sensor connection
- Direct/Reversible/Soft starter
- Fieldbus control for SEW MOVIMOT

Features

- Fast, easy, faultless commissioning
- Compact motor starter
- Easy to modify or extend
- Durable system with high protection class



Solutions for machine construction and system engineering



Application areas

- Packaging machines
- Robots
- Assembly and production lines
- Food production

Solution

- Power distribution
- Remote motor starter
- Fieldbus control
- Illumination module
- Maintenance sockets

Features

- Reduced complexity
- 400 V and 24 V on one strand
- Flexible, modular system
- High machine and system engineering availability
- Fast, simple, faultless installation
- High protection class IP65



Solutions for windpower



Application areas

- Emergency lighting for tower
- Work illumination for hub, nacelle
- Service and maintenance receptacles

Solution

- Tower wiring
- LED sockets
- Power sockets

Features

- Fast, simple, save
- Reduction of complexity
- Ease of material flow
- Reduction of assembly errors
- Reduction of installation time
- Durable and long-living LED lights



Solutions for cranes, shafts, tunnels

Application areas

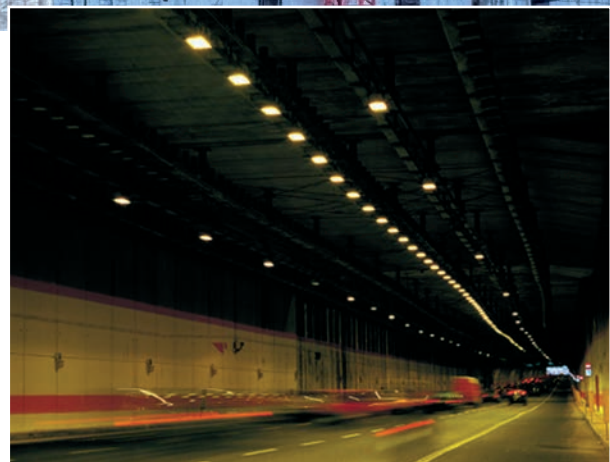
- Gantry cranes
- Special cranes
- Construction cranes
- Silos
- Elevator shafts
- Service tunnels

Solution

- Energy distribution
- Road lighting
- Workplace lighting
- Maintenance sockets

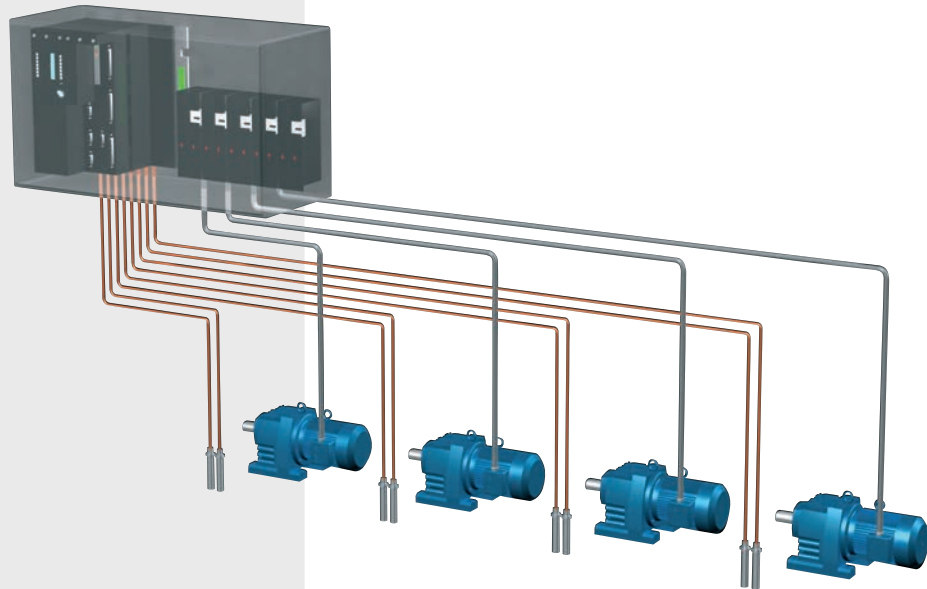
Features

- Clear and simple construction
- Application-optimized lighting components
- Long-lasting LED lights
- Quick and error-free installation



Central installation

– previously current practice



Central

Long cabling distances, time-consuming installation, difficult upgrading and expansion are all characteristic of central installation.

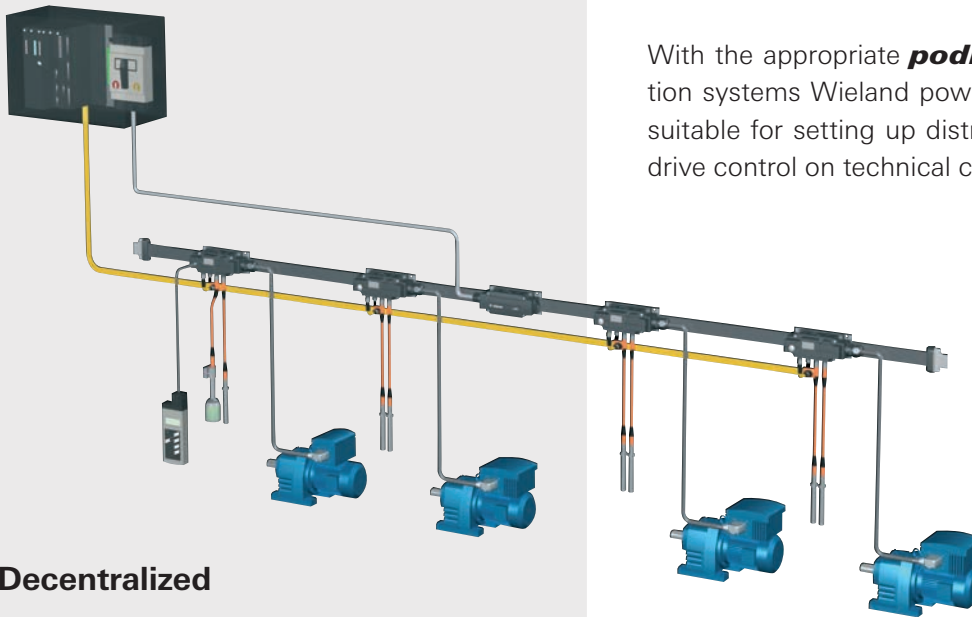
Features of central installation:

- Time-consuming planning and configuration
- Large control cabinets
- Long cabling distances
- Complicated cable trays
- Difficult commissioning
- Costly expansions

Central installation has been state of the art for many decades. It has served its purpose well in industrial automation. Its features include control cabinet fields with controllers, power distribution, motor circuit breakers and motor starters or frequency inverters. Cables connect the control cabinets and the individual drives as well as the sensors in the system or the machine.

In extensive systems this creates full cable trays and requires time-consuming installation. When system parts have to be changed or expanded this creates the need for more control cabinet volume. Cables must be installed retroactively throughout the entire system.

Decentralized installation – the smart solution



Decentralized

Planning and configuration require less work. More space in the control cabinet. Simple installation and expansion.

Advantages of decentralized installation:

- Simple configuration
- Short installation times
- Fast commissioning
- Flexible retrofitting
- Easy expansion
- Much less system downtime
- On-site diagnosis
- Maintenance-friendly, plug connection technology
- Optimal maintenance and repair

With the appropriate **podis®/gesis®** installation systems Wieland power bus concepts are suitable for setting up distributed solutions for drive control on technical conveyor systems.

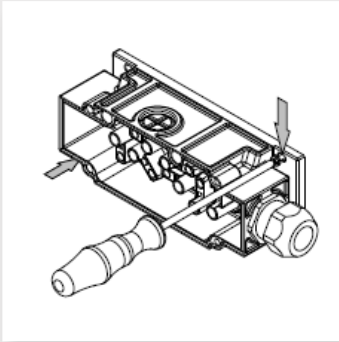
Possible applications range from pure power-distribution via fieldbus interface to motor starters for switching three-phase asynchronous motors. The connection to a fieldbus is integrated in the field distributor or motor starter and it is possible to connect sensors in addition to the drives.

The compact design and high protection rating (IP65) allow optimal integration even under cramped system conditions. That reduces planning and configuration time and saves space in the control cabinet

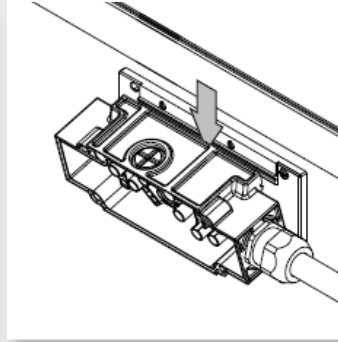


podis® IDC

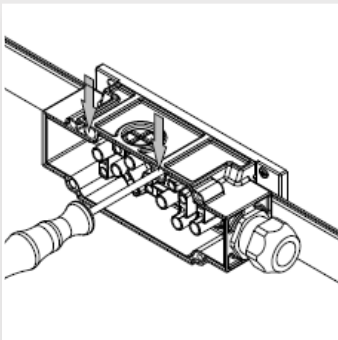
The unique connection principle



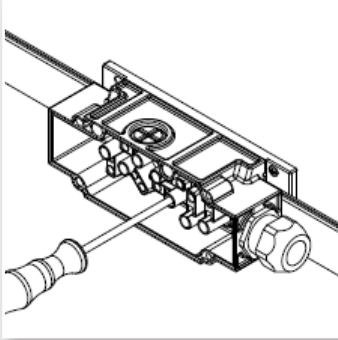
Wall mounting
Open the housing



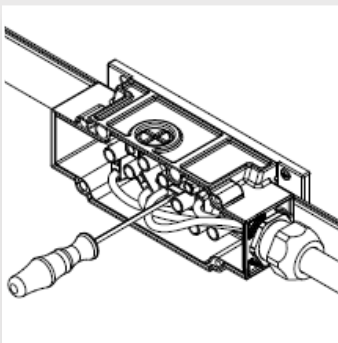
Insert coded flat cable



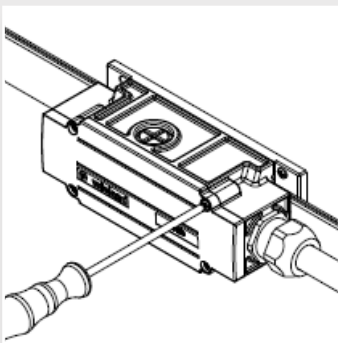
Close the top piece
Cable is sealed



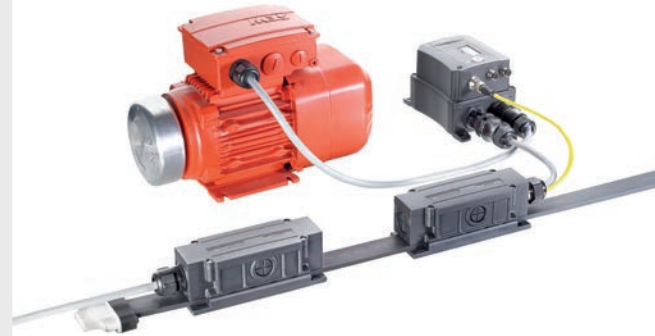
Screw in penetrating screws



Connect outgoing cable



Close housing cover - finished!

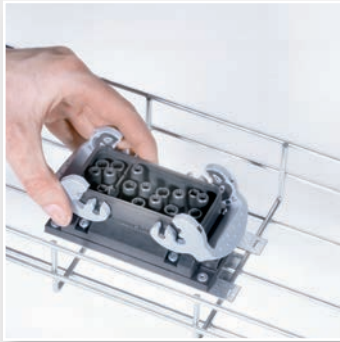


Features:

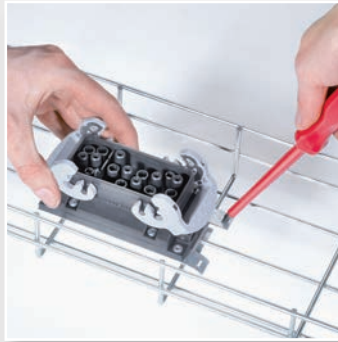
- Uncut power bus
- Fast and simple installation
- Innovative connection technology through insulation-penetrating contact
- Connection without cutting or insulation stripping
- Compact design, ideal for installation in cable ducts
- Minimize potential errors
- Easy to extend
- Add to branches at any position
- Modular attachable function assemblies
- UL approval for international application

podis® CON

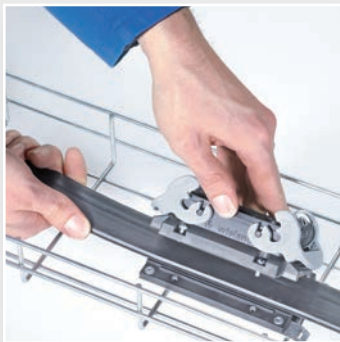
Quick installation in cable duct



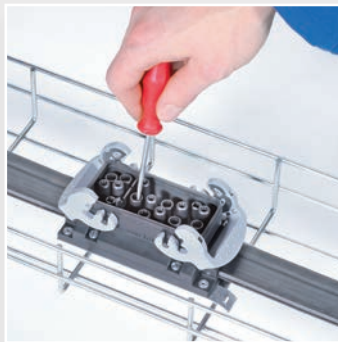
Set into mesh cable tray



Attach to mesh cable tray



Insert flat cable



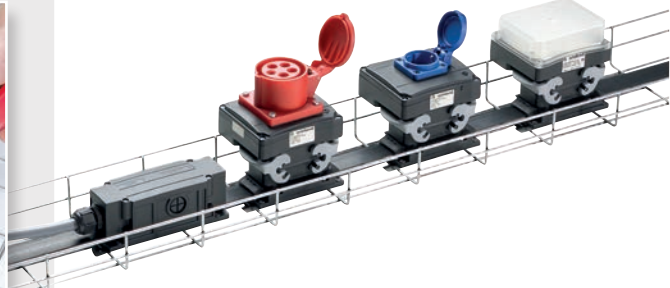
Easy and fast contacting



Insert plug



or directly to the motor starter – finished!



Quick installation systems

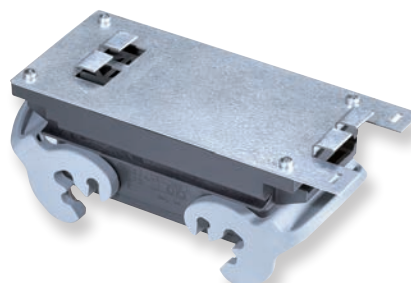
For quick installation in mesh cable trays or rear-side installation on the mesh cable tray, pre-mounted quick installation plates are available; with them, the **podis®** connection modules can be quickly and easily installed without additional mounting plates and fastening bolts.



Installation in cable duct

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

Illustration: Quick installation plate for installation in mesh cable tray: OBO Bettermann GRM 55/150
Additional installation aids available upon request.

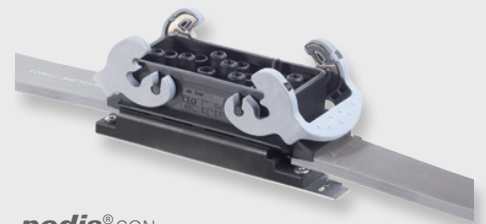


podis[®] CON

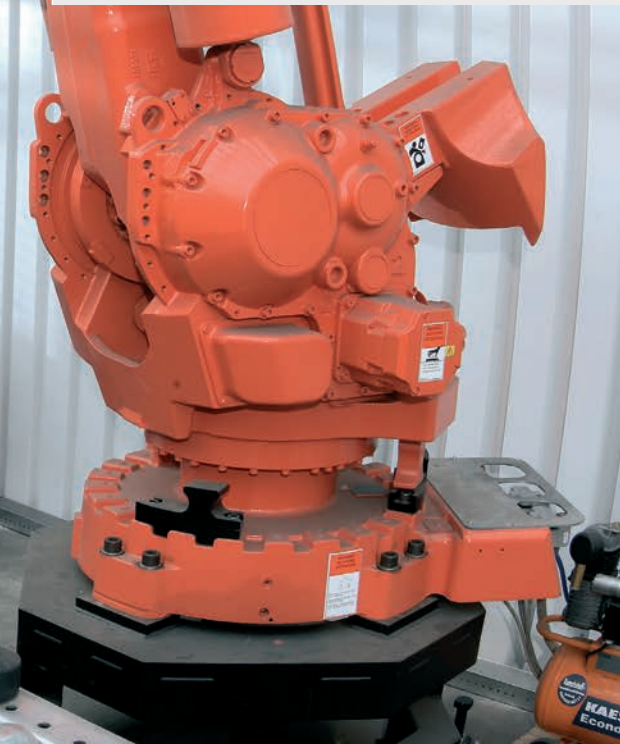
Power bus components

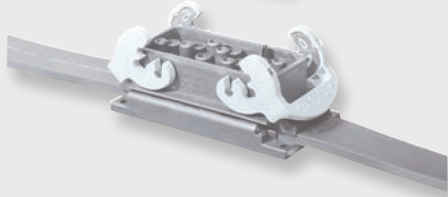


podis[®] CON
connector

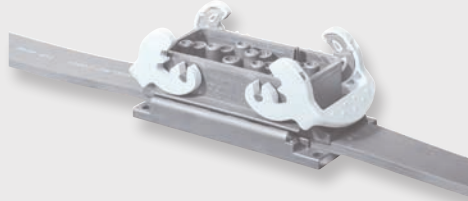


podis[®] CON
pluggable feeder

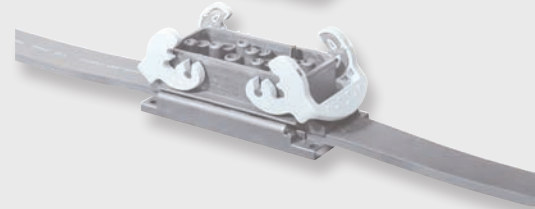




podis[®] LED
LED luminaires



podis[®] CON
Schuko power receptacle



podis[®] CON
Heavy duty power receptacle

podis[®] CON is a pluggable, modular power bus system for remote power supply. Because of the simple, non-interrupted maintenance and service possibilities, **podis**[®] CON guarantees the highest system availability. With it, many functions such as power distribution, illumination, or active components can be directly mounted to the power bus without requiring additional fastenings. With the **podis**[®] CON plug, as many additional devices as needed can be connected and flexibly positioned.



Tray cables 5G16 / Connection modules 5G16

Tray cable

Tray cable **podis** CON XPE 5G16; nominal ratings acc. VDE 63 A; 690 V; 6kV/3; nominal ratings acc. UL 61 A, 600 V; halogen-free, resistant to oil and acid, resistant to ozone and UV; fixed installation; color black



Description	Type	Order No
Tray cable	XPE 5G16	00.710.0307.1
Technical data		
Nominal voltage U (V)		750
Nominal cross section of conductor (mm ²)		16
Color of outer sheath		Black
Material of outer sheath		Copolymer (XPE)
Number of cores		5
Core identification		Colored
Core insulation		XHH
Cable width approx. (mm)		48
Cable height approx. (mm)		12
Bending radius, static (mm)		16
Flame retardant		Acc. EN 50265-2-1
Halogen-free (according to EN 50267-2-1)		Yes
Certificates / Approvals		VDE, UL 1277 being prepared

Feed-in module

Feed-in module for tray cable **podis** CON 5G16 connection by roundcable; M50-/M63cable gland; 5-pole; nominal ratings acc. VDE 63A; 690 V; 6kV/3; nominal ratings acc. UL 61 A; 600 V; degree of protection IP65; screw clamps max. 35 mm² (AWG 2) single/fine-stranded; max. cable diameter 38 mm (1 1/2"); housing grey; mounting position any



Description	Type	Order No
Feed-in module	FCS 16 5 SA SA M50	75.450.0014.3
Feed-in module	FCS 16 5 SA SA M63	75.450.0114.3
Technical data		
Rated voltage (V)		690
Rated current (A)		63
Number of poles		5
Connection type		Screw terminal
Min. rated cross section, finely stranded (mm ²)		10
Max. rated cross section, finely stranded (mm ²)		35
Color		Black
Protection class		IP65
Length (mm)		380
Width (mm)		145
Height (mm)		100
Certificates / Approvals		-

Connection module

Connection module **podis** CON 5G16 for pluggable connection with RST20i5; 5-pole; nominal ratings acc. VDE 20A; 690 V; 6kV/3; nominal ratings acc. UL 20 A; 600 V degree of protection IP65; piercing contacts; Torx 15; screw clamps max. 16 mm² (AWG 6) single/fine-stranded; max. cable diameter; housing black; mounting position any



Description	Type	Order No
Connection module	FCS 16 5 SI SA RST	75.452.0053.1
Technical data		
Rated voltage (V)		690
Rated current (A)		20
Number of poles		5
Connection type 1		Penetration connection
Connection type 2		Screw connection
Min. rated cross section, finely stranded (mm ²)		1.5
Max. rated cross section, finely stranded (mm ²)		6
Color		Black
Protection class		IP65
Length (mm)		217
Width (mm)		84
Height (mm)		74
Certificates / Approvals		UL 2875 being prepared


Connection module


Connection module **podis** CON 5G16 for pluggable connection with RST20i5; 5-pole; nominal ratings acc. VDE 20A; 690 V; 6kV/3; nominal ratings acc. UL 20 A; 600 V degree of protection IP65; piercing contacts; Torx 15; screw clamps max. 16 mm² (AWG 6) single/fine-stranded; max. cable diameter; housing black; mounting position any



Description	Type	Order No
Connection module	FCS 16 5 SI SA M32	75.456.0053.1
Technical data		
Rated voltage (V)		690
Rated current (A)		41
Number of poles		5
Connection type 1		Penetration connection
Connection type 2		Screw connection
Min. rated cross section, finely stranded (mm ²)		1.5
Max. rated cross section, finely stranded (mm ²)		16
Color		Black
Protection class		IP65
Length (mm)		250
Width (mm)		84
Height (mm)		74
Certificates / Approvals		UL 2875 being prepared

Accessories

	Description	Type	Order No
	Cable gland	M25x1.5, (for cable 9-16 mm) black	Z5.507.1453.1
	Cable gland	M25x1.5, (for cable 13-18 mm) black	Z5.507.1553.1
	Lock nut	M25x1.5 black	05.505.0253.1
	Cable gland	M32x1.5, (for cable 10-21 mm) black	Z5.507.1753.1
	Cable gland	M32x1.5, (for cable 18-25 mm) black	Z5.507.1653.1
	Lock nut	M32x1.5 black	05.505.0353.1
	Cable gland	M50x1.5, (for cable 25- 31 mm) black	on demand
	Cable gland	M50x1.5, (for cable 30-38 mm) black	on demand
	Lock nut	M50x1.5 black	on demand
	Cable gland	M63x1.5, (for cable 29- 35 mm) black	on demand
	Cable gland	M63x1.5, (for cable 34-44 mm) black	on demand
	Lock nut	M63x1.5 black	on demand
	Multiple feed-through	3 x 8 mm for M25, Z5.507.1553.1	05.512.4883.0
	Multiple feed-through	4 x 7 mm for M25, Z5.507.1553.1	05.512.5083.0
	Multiple feed-through	2 x 8 mm for M32, Z5.507.1653.1	05.512.4383.0
Screwdriver	Bit Torx 15 x 50	06.502.6210.0	
Insulating tape		Z6.653.5700.0	

<p>Cable end piece</p> <p>Cable end piece for podis tray cable; black / transparent</p> 	Description	Order No
	Cable end piece	Z6.563.6553.0



Tray cable 5G6 / Connection modules for 5G6

Tray cable

Tray cable **podis** CON XPE 5G6; nominal ratings acc. VDE 40 A; 690 V; 6kV/3; nominal ratings acc. UL 32 A, 600 V; halogen-free, resistant to oil and acid, resistant to ozone and UV; fixed installation; color black



Description	Type	Order No
Tray cable	XPE 5G6	00.729.0305.1
Technical data		
Nominal voltage U (V) acc. to VDE		750
Nominal voltage U (V) acc. to UL		600
Nominal cross section of conductor (mm ²)		6
Color of outer sheath		Black
Material of outer sheath		Copolymer (XPE)
Number of cores		5
Core identification		Colored
Cable width approx. (mm)		43
Cable height approx. (mm)		7.8
Bending radius, static (mm)		t.b.d.
Flame retardant acc. to		EN 50265-2-1
Halogen-free acc. to		EN 50267-2-2
Certificates / Approvals		VDE, UL 1277 being prepared

Connection module

Connection module **podis** CON 5G6 for fixed wiring with M32 cable gland; 5-pole; nominal ratings acc. VDE 40A; 690 V; 6kV/3; nominal ratings acc. UL 32 A; 600 V degree of protection IP65; piercing contacts; Torx 15; screw clamps max. 16 mm² (AWG 6) single/fine-stranded; max. cable diameter 25 mm; housing black; mounting position any



Description	Type	Order No
Connection module	FCS 6 5 SI SA M32	75.250.0053.1
Technical data		
Rated voltage (V) VDE		690
Rated current (A) VDE		41
Rated voltage (V) UL		600
Rated current (A) UL		32
Number of poles		5
Connection type 1		Insulation-penetrating termination
Connection type 2		Screw terminal
Rated cross section, finely stranded (mm ²)		1.5 ... 16
Max. connection cable diameter		25 mm
Cable feed		M32 cable screw gland
Protection class		IP65
Color		Black
Dimensions L x W x H (mm)		250 x 84 x 74
Certificates / Approvals		UL 2875 being prepared

Connection module

Connection module **podis** CON 5G6 for pluggable connection with RST20i5; 5-pole; nominal ratings acc. VDE 20A; 690 V; 6kV/3; nominal ratings acc. UL 20 A; 600 V degree of protection IP65; piercing contacts; Torx 15; single/fine-stranded; max. cable diameter; housing black; mounting position any



Description	Type	Order No
Connection module	FCS 6 5 SI SA RST20i5	75.252.0053.1
Connection module	FCS 6 5 SI SA RST 20i5 LH	75.252.0153.1
Technical data		
Rated voltage (V) VDE		690
Rated current (A) VDE		41
Rated voltage (V) UL		600
Rated current (A) UL		32
Number of poles		5
Connection type 1		Insulation-penetrating termination
Connection type 2		Screw terminal
Rated cross section, finely stranded (mm ²)		1.5 ... 16
Connection		RST20i5 black, female connector
Protection class		IP65
Color		Black
Dimensions L x W x H (mm) FCS 6 5 SI SA RST 20i5		217 x 84 x 74
Dimensions L x W x H (mm) FCS 6 5 SI SA RST 20i5 LH		217 x 84 x 59
Certificates / Approvals		UL 2875 being prepared

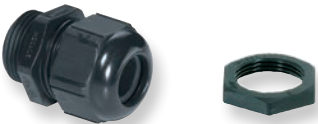
Connection module


Connection module **podis** CON 5G6 for fixed wiring with M25 cable gland; 5-pole; nominal ratings acc. VDE 40A; 690 V; 6kV/3; nominal ratings acc. UL 32 A; 600 V degree of protection IP65; piercing contacts; Torx 15; screw clamps max. 16 mm² (AWG 6) single/fine-stranded; max. cable diameter 18 mm; housing black; mounting position any



Description	Type	Order No
Connection module	FCS 6 5 SI SA M25	75.256.0053.1
Connection module	FCS 6 5 SI SA M25 LH	75.256.0153.1
Technical data		
Rated voltage (V) VDE		690
Rated current (A) VDE		41
Rated voltage (V) UL		600
Rated current (A) UL		32
Number of poles		5
Connection type 1		Insulation-penetrating termination
Connection type 2		Screw terminal
Rated cross section, finely stranded (mm ²)		1.5 ... 16
Max. connection cable diameter		18 mm
Cable feed		M25 cable screw gland
Protection class		IP65
Color		Black
Dimensions L x W x H (mm) FCS 6 5 SI SA M25		245 x 84 x 74
Dimensions L x W x H (mm) FCS 6 5 SI SA M25 LH		245 x 84 x 59
Certificates / Approvals		UL 2875 being prepared



Accessories



	Description	Type	Order No
	Cable gland	M25x1.5, (for cable 9-16 mm) black	Z5.507.1453.1
	Cable gland	M25x1.5, (for cable 13-18 mm) black	Z5.507.1553.1
	Lock nut	M25x1.5 black	05.505.0253.1
	Cable gland	M32x1.5, (for cable 10-21 mm) black	Z5.507.1753.1
	Cable gland	M32x1.5, (for cable 18-25 mm) black	Z5.507.1653.1
	Lock nut	M32x1.5 black	05.505.0353.1
	Multiple feed-through	3 x 8 mm for M25, Z5.507.1553.1	05.512.4883.0
	Multiple feed-through	4 x 7 mm for M25, Z5.507.1553.1	05.512.5083.0
	Multiple feed-through	2 x 8 mm for M32, Z5.507.1653.1	05.512.4383.0
	Screwdriver	Bit Torx 15 x 50	06.502.6210.0
	Insulating tape		Z6.653.5700.0


<p>Cable end piece Cable end piece for <i>podis</i> tray cable; black / transparent</p> 	Description	Order No
	Cable end piece	Z6.563.6053.0




Tray cables 7G4


Tray cable		
Description	Type	Order No
<p>Tray 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</p> 		
Tray cable	EVA 7 G 4 black	00.709.0504.1
Technical data		
Nominal voltage U (V)		750
Nominal cable cross-section (mm ²)		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		

Tray cable		
Description	Type	Order No
<p>Tray 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</p> 		
Tray cable	XLPE 7 G 4 black	00.729.0504.1
Technical data		
Nominal voltage U (V)		600
Nominal cable cross-section (mm ²)		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		

Cable end piece		Order No
Description		
<p>Cable end piece for podis tray cable 7 x 2.5 mm² and 7 x 4 mm²; degree of protection IP65; black / transparent</p> 		
Cable end piece	Z5.562.7553.1	

Feed-through tray cable		Order No
Description		
<p>Housing feed-through for podis tray cable 7 x 2.5 mm² and 7 x 4 mm²; degree of protection IP65; black</p> 		
Feed-through tray cable	Z5.563.6553.1	

Accessories

Accessories		
Description	Type	Order No
		
Cable gland	M20x1.5 black	Z5.507.1353.1
Cable gland	M20x1.5 with AS-i insert black	Z5.505.0653.1
Lock nut	M20x1.5 black	05.505.0153.1
Cable glandn	M25x1.5, (for cable 9-16 mm) black	Z5.507.1453.1
Cable gland	M25x1.5, (for cable 13-18 mm) black	Z5.507.1553.1
Lock nut	M25x1.5 black	05.505.0253.1

Connection modules 7G4

Connection module

7 pole, fest

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 current (A)		20
Number of poles		7
Connection type 1		Penetration connection
Connection type 2		Cage clamp 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)		160
Width (mm)		60
Height (mm)		60
Approvals		-

Connection module

7-pole with quick installation plate

Connection module FCS 4 7 SI FK FM; with quick installation plate for mesh cable tray OBO-Bettermann; 7-pole, 20 A; 277/480 V 4 kV/3 (VDE); 600 V (UL, CSA); protection class IP65; insulation-penetrating contact; 1 x 4/6 qmm, single-core/finely stranded via tension spring terminals; 4 rated break points (2 x M20, 2 x M25); black



Description	Type	Order No
Connection module	FCS 4 7 SI FK FM	99.801.4866.1
Technical data		
Rated voltage (V)		500
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 (mm ²)		1.5 mm ²
Max. rated cross-section, fine-stranded (mm ²)		4 mm ²
Mounting method		Fast mesh cable tray installation
Color		black
Degree of protection		IP65
Min. ambient temperature		-30 °C
Max. ambient temperature		55 °C
Storage temperature / transport min.		-40 °C
L x W x H (mm)		180 x 60 x 67
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
Connection module	FCS 2,5 3 SI SA SW	75.016.3053.1
Technical data		
Rated voltage (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 (mm ²)		1.5
max. rated cross-section, fine-stranded (mm ²)		2.5
Color		black
Degree of protection		IP65
Length (mm)		120
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** tray 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 current (A)		32
Number of poles		7
Connection type 1		Screw 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)		175
Width (mm)		83
Height (mm)		78
Approvals		UL

Plug-in outgoing feeders 7G4

Tray cable outgoing feeder – plug-in, 7 pole

Tray 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
Tray 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

podis^{CON} 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



Accessories see page 61 and following.

Description	Type	Order No
Plug complete	FCS 4 7 ST SA S00	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		

Plug complete 7 pole

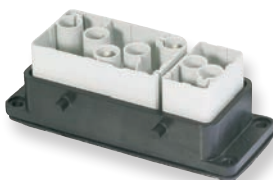
podis^{CON} plug FCS 4.0 7 ST SA; 7-pole, pins, 20 A, 277/480 V 4kV/3(VDE); 600 V (UL, CSA), with threaded connector M25 for threaded joint; screw connection



Description	Type	Order No
Plug complete	FCS 4 7 ST SA S02	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

podis^{CON} 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		
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		

Service sockets on the power bus 7G4

podis

Schuko 16A

podis CON plug with light socket (blue); German standard; straight mounting; Schuko or CEE 7/4, 230 V, 16 A, 3-pole, IP54; Connected wire: L1 - 1; N - 4; PE - PE



Description	Type	Order No
Socket	FCS-CEE7/4 230V16A3P	83.315.0001.1
Technical data		
Nominal voltage (V)	230	
Nominal current (A)	16	
Type of voltage for the supply voltage	AC	
Supply frequency	50	
Number of poles	3	
Connection type 1	Plug connection	
Connection type 2	CEE 7/4 16A 3P	
Color	blau	
Degree of protection (IP)	IP54	
Length (mm)	115	
Width (mm)	104	
Height (mm)	115	

podis

CEE 3-pole, 16 A

podis CON plug with CEE 6H socket (blue); German standard; straight mounting; CEE 6H, 230 V, 16 A, 3-pole, IP44; connected wire: L1 - 1; N - 4; PE - PE

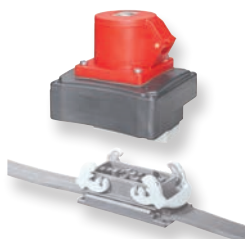


Description	Type	Order No
Socket	FCS-CEE6H 230V16A3P	83.315.0001.2
Technical data		
Nominal voltage (V)	230	
Nominal current (A)	16	
Type of voltage for the supply voltage	AC	
Supply frequency	50	
Number of poles	3	
Connection type 1	Plug connection	
Connection type 2	CEE 6H 16A 3P	
Color	blau	
Degree of protection (IP)	IP44	
Length (mm)	115	
Width (mm)	104	
Height (mm)	160	

podis

CEE 5-pole, 16 A

podis CON plug with CEE socket; straight mounting; 230/400 V AC; 240/415 V AC; 16 A - 6h, 3P+N+PE; 50/60 Hz; IP44; connected wire: L1 - 1; L2 - 2; L3 - 3; N - 4; PE - PE

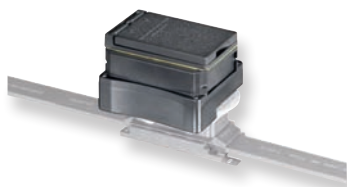


Description	Type	Order No
Socket	FCS-CEE6H 400V16A5P	83.315.0002.1
Technical data		
Nominal voltage (V)	400	
Nominal current (A)	16	
Type of voltage for the supply voltage	AC	
Supply frequency	50	
Number of poles	5	
Connection type 1	Plug connection	
Connection type 2	CEE 6H 16A 5P	
Color	rot	
Degree of protection (IP)	IP44	
Length (mm)	115	
Width (mm)	104	
Height (mm)	160	

podis

NEMA 5-20 GFCI 120V20A3P

podis CON power receptacle with two NEMA 5-20 sockets; GFCI (test/reset); 120 V, 20 A, 3-polig; rating NEMA 3 (damp location), connected conductors L1 - 1, N - 4, PE - PE



Description	Type	Order No
Socket	NEMA 5-20 GFCI 3P	83.315.0004.1
Technical data		
Nominal voltage (V)	120 V	
Nominal current (A)	20 A	
Type of voltage for the supply voltage	AC	
Supply frequency	60	
Number of poles	3	
Connection type 1	Plug connection	
Connection type 2	2 x NEMA5-20	
Color	gelb	
Degree of protection (IP)	NEMA3	
Length (mm)	115	
Width (mm)	104	
Height (mm)	131	
Approvals	UL	

Pre-assembled connection and interconnecting cables 7G4

Connection cable plug – free end

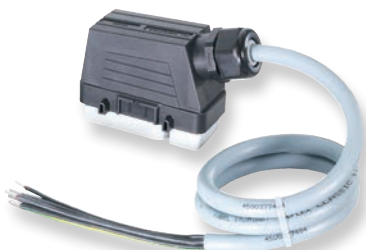
podis CON connection cable FCS 2,5 7 STSA-10; plug assembled with round cable 7 x 2.5 mm², open cable end; stripping length 130 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm; black



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 (mm ²)		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

Connection cable UL-execution plug – free end

podis CON 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



More assemblies on request.

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)		11.6
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

Interconnecting cable Plug - Connection module

podis CON 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

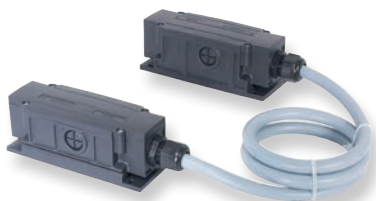


Description	Type	Order No
Interconnecting cable	FCS 2,5 7 STSA - SIFK10	83.302.1025.1
Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		7
Cable cross-section (mm ²)		2.5
Design side 1		Plug
Design side 2		Connection module
Cable end treatment		-
Cable type		Ölflex Classic 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

Pre-assembled connection and interconnecting cables 7G4

Interconnecting cable Connection module - Connection module

podis CON 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 (mm ²)		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

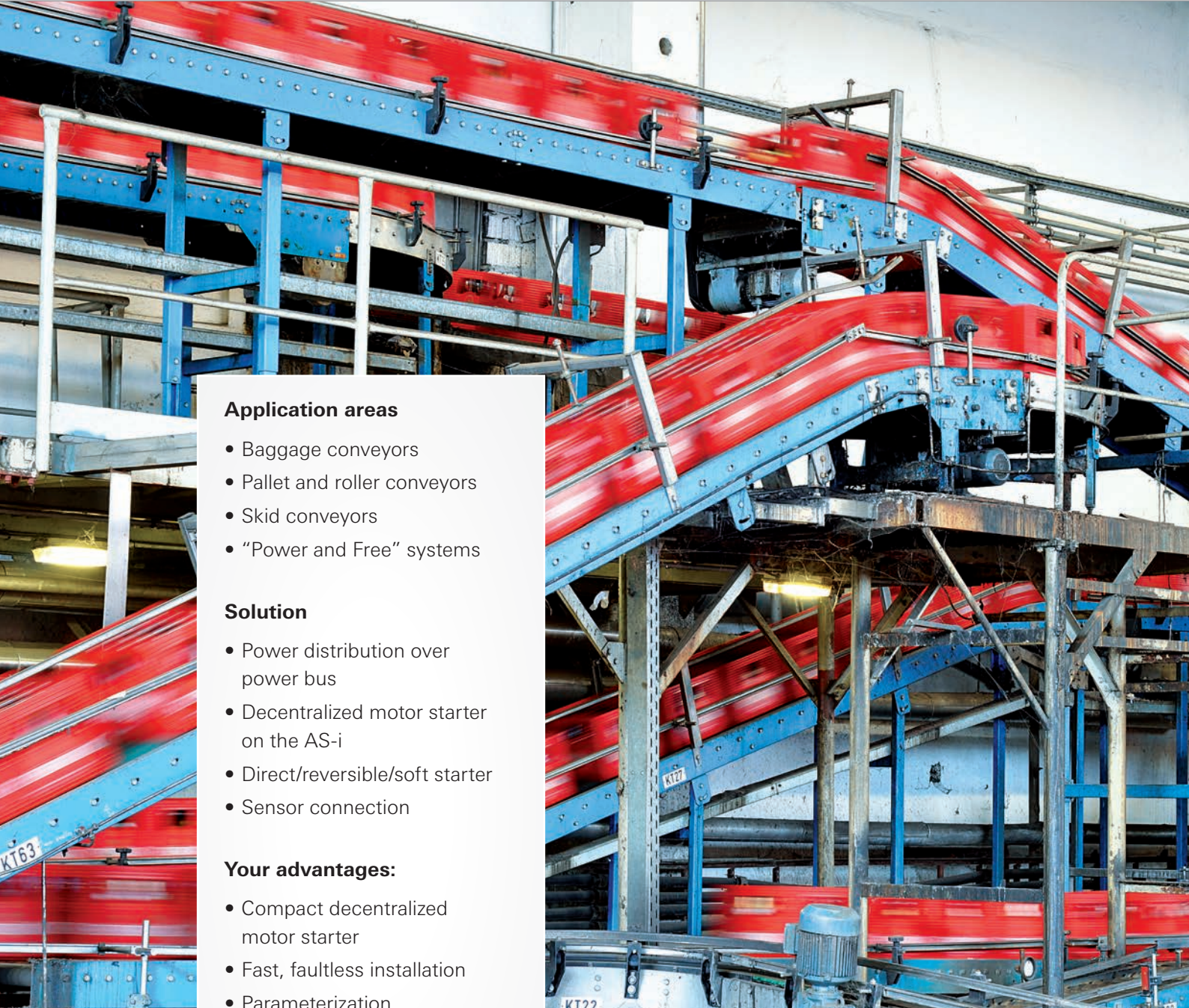
Connection cable Connection module - open end

podis CON 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; 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 (mm ²)		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

podis® – Solutions for the logistic



Application areas

- Baggage conveyors
- Pallet and roller conveyors
- Skid conveyors
- “Power and Free” systems

Solution

- Power distribution over power bus
- Decentralized motor starter on the AS-i
- Direct/reversible/soft starter
- Sensor connection

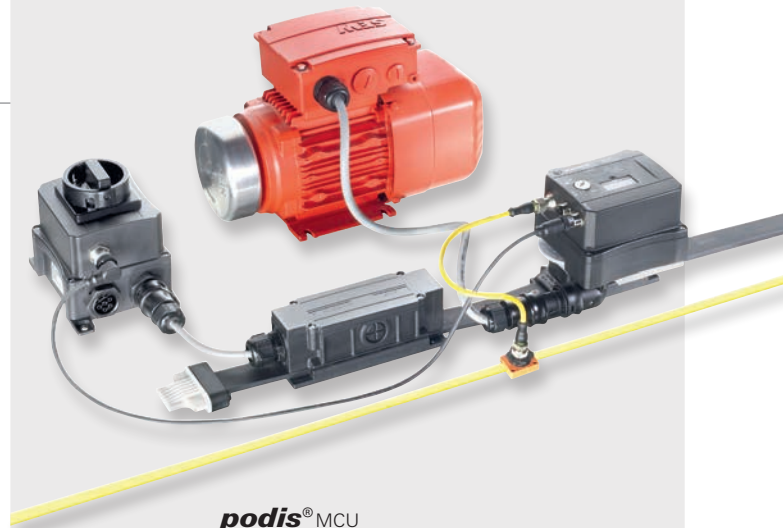
Your advantages:

- Compact decentralized motor starter
- Fast, faultless installation
- Parameterization via download
- high degree of protection IP65

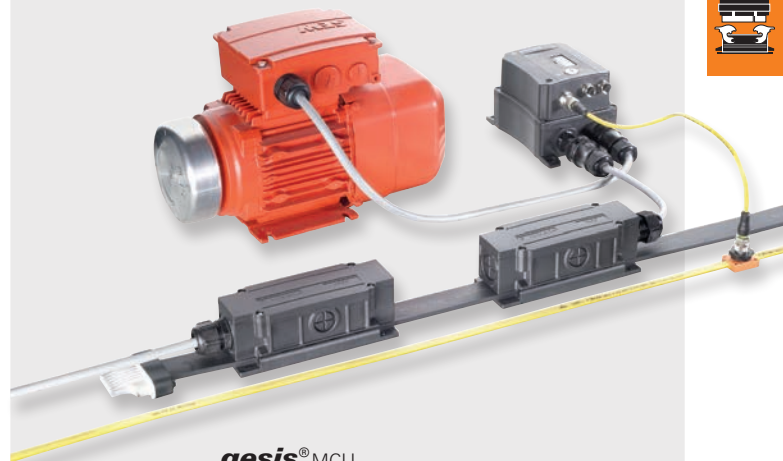
podis® – The Motor starter on the power bus

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

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



podis® MCU
Reversing starter plugged directly on the power bus, with maintenance switch

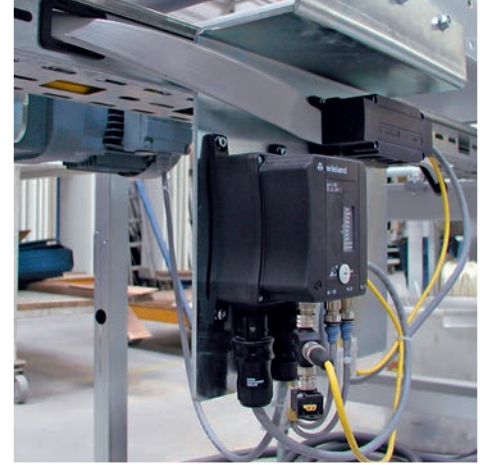


gesis® MCU
Reversing starter, remote

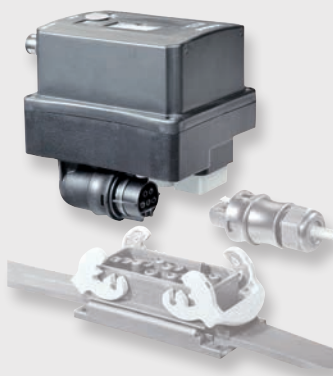


podis® —

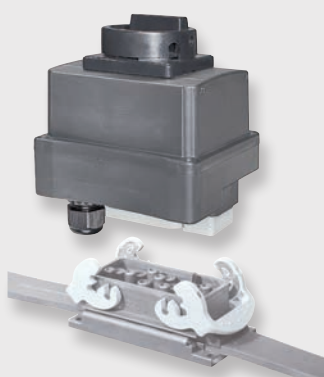
Motor starter on the power bus



Motor starter, remote



Motor starter, direct plug-in



Maintenance switch

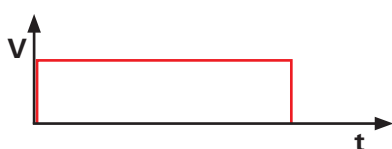
The **podis**® motor starter for decentralized application close to the motor is based on the **podis**® energy bus solution and can be used in harsh industrial environments.

Motor starter: In a particularly compact housing, the **podis**® MCU motor starter combines the function of the electronic motor starter with AS-i control and the integration of up to three sensors. They are used in applications in which standard three-phase motors up to 1.5 kW are started, optionally in one or two directions of rotation.

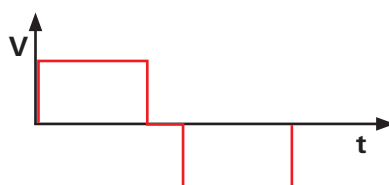
Soft starter: The new electronic **podis**® MSS motor soft starter is for starting and stopping three-phase asynchronous motors gently. To ensure that light conveyor goods do not slip when the motor is started and to take care of the mechanical components of the drive, the soft starter switches the drive on and off gently. The acceleration time, deceleration time, and breakaway torque are smoothly adjustable.

Maintenance switches: To activate the drives safely to carry out a repair or maintenance, maintenance switches installed "on-site" can separate individual conveying lines or consumers from the network without having to shut down the entire plant.

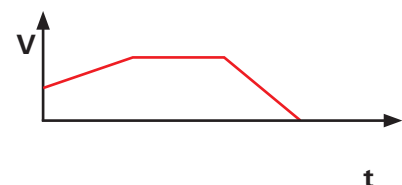
Direct starter



Reversible starter



Soft starter



Record-breaking – installation and commissioning time

Quick installation: With the new **podis®** motor starters your installation time will be up to 70% faster than before.

Space-saving design:

The **podis®** motor starters are compact, easily connected to the **podis®** tray cable outlet, and fixed in place via two fast-closing manual locking brackets. No more laborious and bulky installation on separate mounting plates. This saves space and simplifies project planning. Alternatively, the **podis®** motor starters can be installed away from the energy bus.

Simple installation in or on the cable tray:

The design enables optimum integration into cable-routing systems. With the **podis®** motor starter, ingoing and/or outgoing cables run behind the motor starter in the cable tray. This enables side-by-side installation. The remote **podis®** motor starter is installed close to the motor or on cable-routing systems.

Smart motor control:








The **podis®** motor starter can be operated as a direct, reversing, or soft starter of three-phase asynchronous motors up to

1.5kW, switching after the startup phase from semiconductors to internal mechanical bypass relays.

Simple operation, optimum diagnostics:

Easy configuration via AS interface. When replacing a motor starter, the stored settings can be transferred automatically from the controller to the motor starter.

LED displays for status and error messages enable quick on-site diagnostics in the event of an error. This reduces costly downtime.

- 
Direct, reversing or soft starters for asynchronous motors from 0.09 to 1.5 kW (0.12 to 2.01 hp)
- 
Considerable time saved during installation
can be connected directly onto the power bus
- 
Electronic motor protection
for optimum protection of your motors
- 
Parameter download for settings
shortens commissioning and maintenance
- 
On-site diagnostics
status and error diagnostics right at the device
- 
Maintenance-friendly
quick and easy replacement when required
- 
Robust design
IP65 Degree of protection for rough industrial environments



1 Plug together

Power, AS-i, and motor cable connection

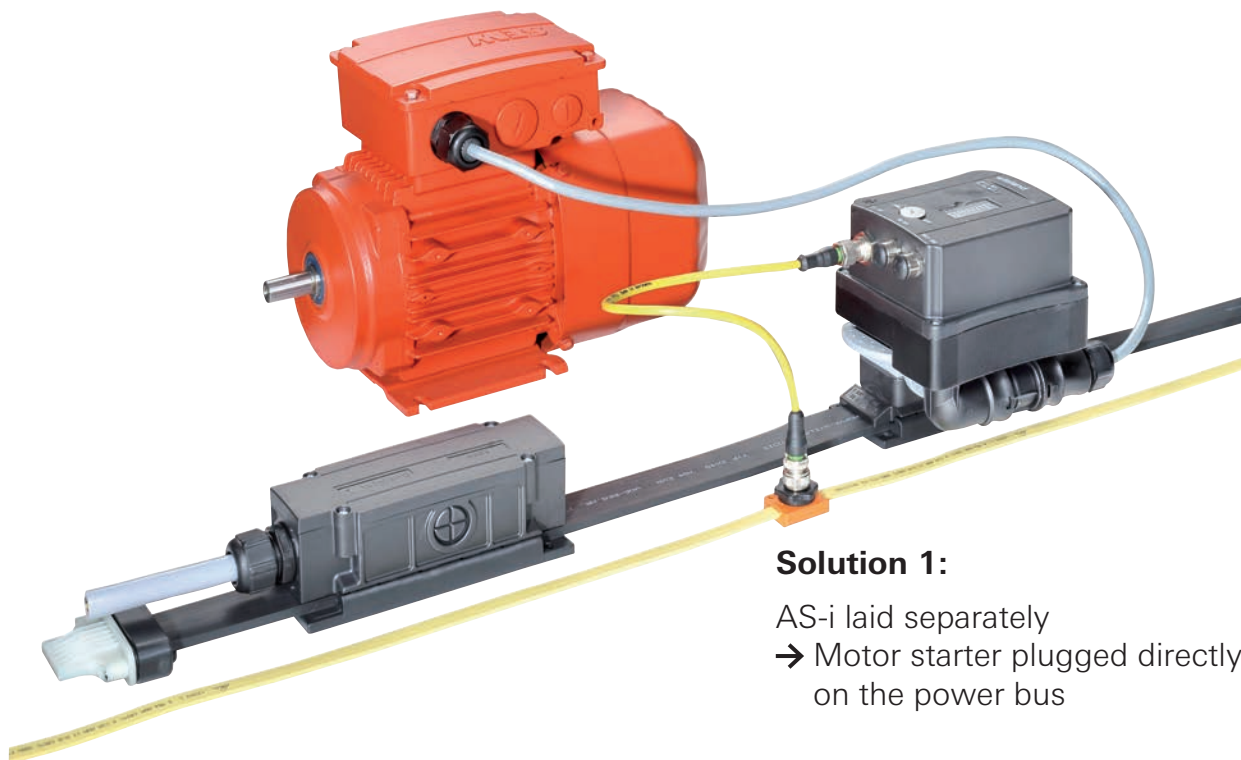


2 Configure

Addressing via handheld, configuration via parameter download from the AS-i Master

3 ... and start

Direct/reversing starter, direct plug-in



Solution 1:

AS-i laid separately
 → Motor starter plugged directly on the power bus

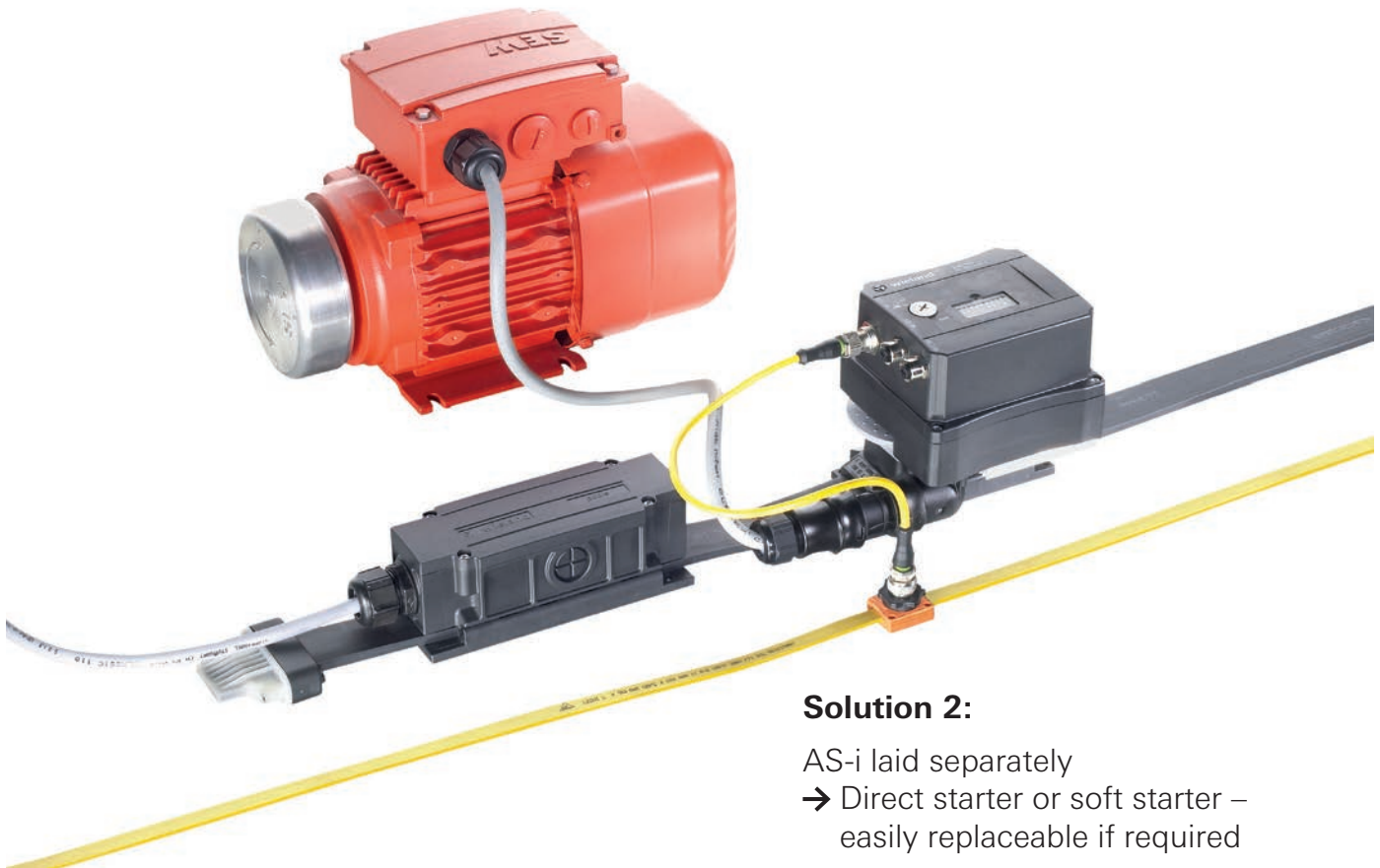
podis^{MCU} FA C 3I/W1.5 Direct/reversing starter, direct plug-in

podis^{MCU} FA C 3I/W1.5; 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 tray cable FCS 4 7 SI BU (75.015.5153.1); AS-i via M12 socket; motor output via RST20i5 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
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		
Slave type		V3.0
Current consumption of AS-i (mA)		max. 200
Motor current parameterization available		yes
Brake activation		no
Motor protection via thermistor		no
Motor protection via thermal motor model		yes
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 RST20i5
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) on FCS 4 7 SI BU		104 x 139 x 134
Approvals		-

The soft starter, plugged directly on the power bus



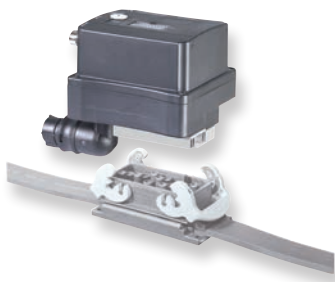
Solution 2:

AS-i laid separately
 → Direct starter or soft starter – easily replaceable if required



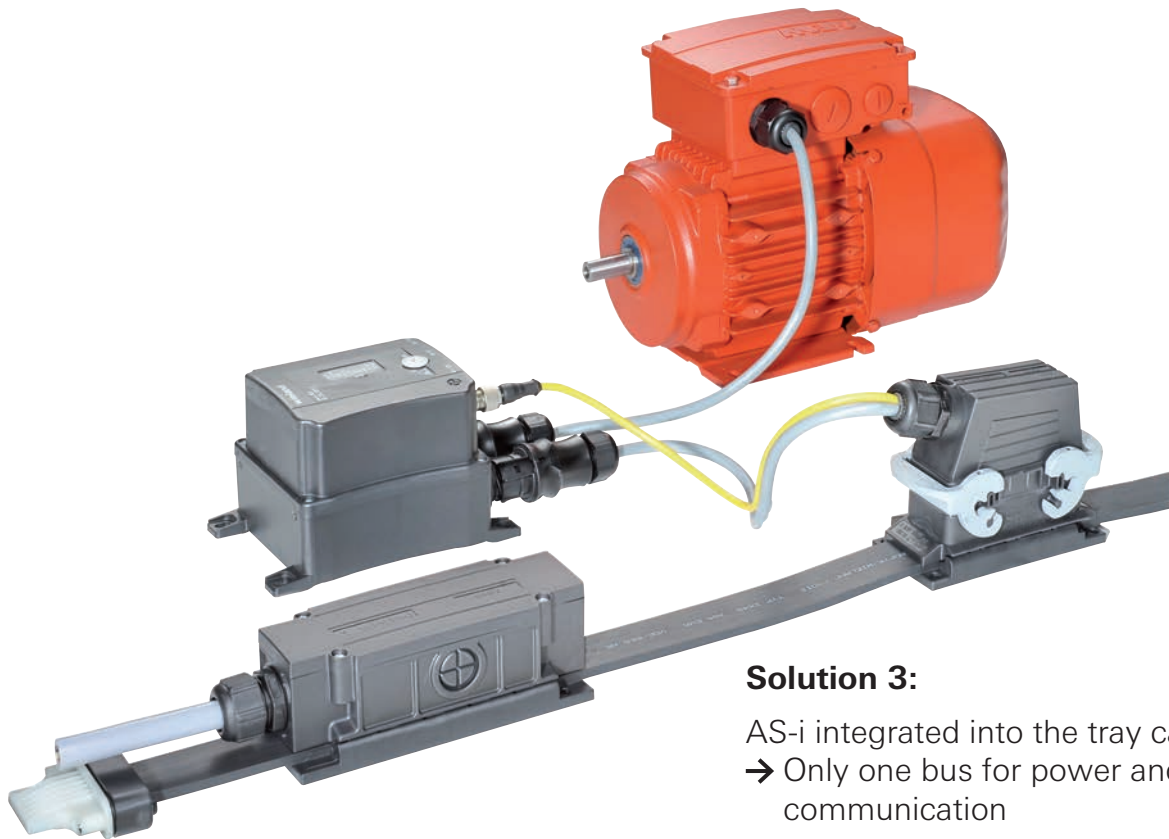
podis^{MSS} FA C 3I/W1,5 soft starter direct plug-in

podis^{MSS} FA C 3I/W1,5; soft starter with reversing function for threephase asynchronous motors of 0.09-1.5 kW / 400 V AC; 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) infeed via podis^{CON} tray cable outgoing feeder (75.015.5153.1) pluggable; motor output via RST20i5 black, socket; function: Soft starting and stopping; reversing function; electronic motor protection; parameterization of nominal motor current, ramp-up time/deceleration time; minimum current, current asymmetry, reversing break, blocking of rotational direction (direct starter) via parameter download AS-i; diagnosis on the device via LED or via AS-Interface



Description	Type	Order No
podis ^{MSS}	FA C 3I/W1,5	83.223.0009.5
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
Number of inputs		3
Number of motor outputs		1
AS-i specification		
Slave type		Standard slave
Current consumption of AS-i (mA)		max. 200
Motor current parameterization available		yes
Starting voltage		0-100%
Starting time		0.1-10s
Deceleration time		0.1-10s
Brake activation		no
Motor protection via thermistor		no
Motor protection via thermal motor model		yes
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 RST20i5
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) on FCS 4 7 SI BU		104 x 139 x 152
Approvals		-

The direct/reversing starter, mounted remotely from the power bus



Solution 3:

AS-i integrated into the tray cable
 → Only one bus for power and communication

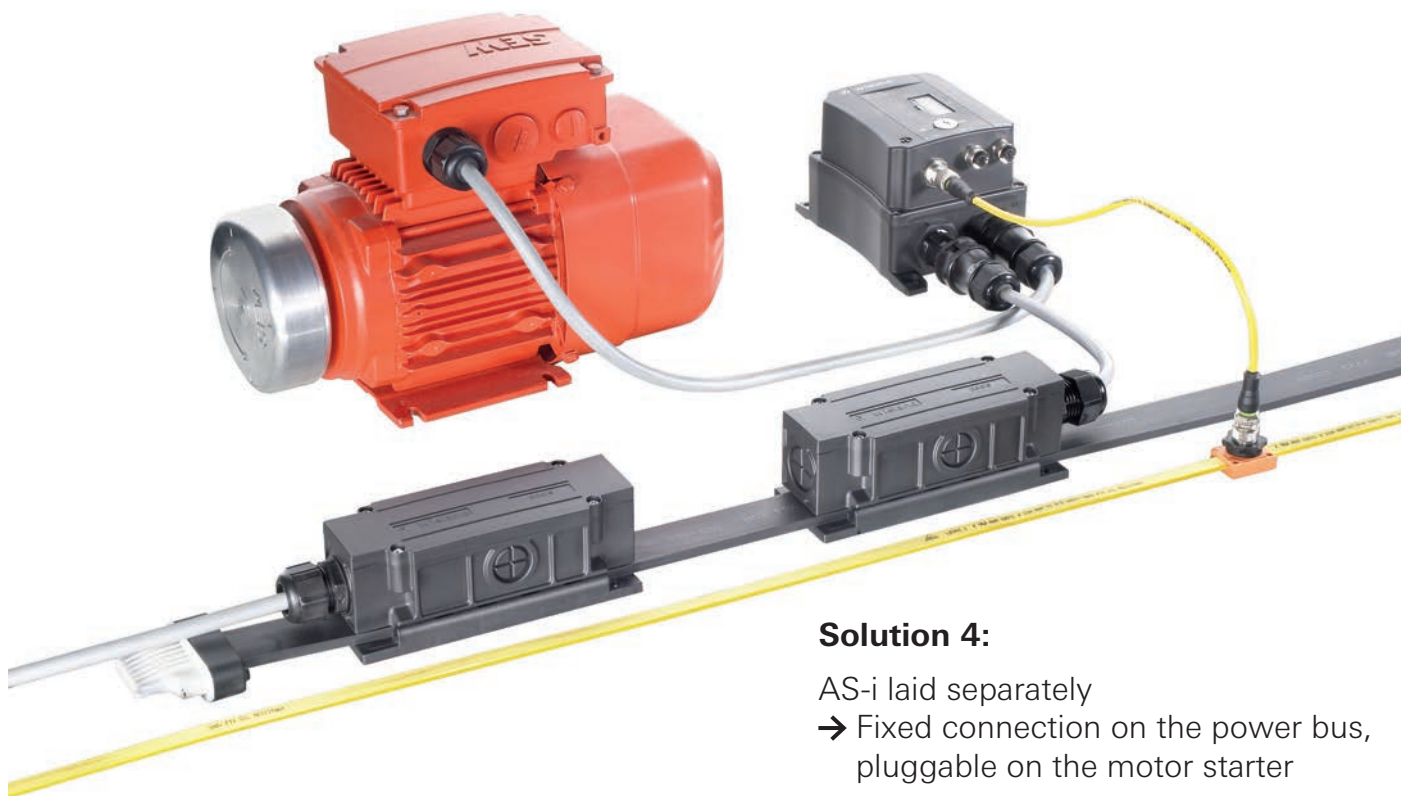
gesis^{MCU} PA V 3I/W1.5 Direct/reversing starter, remote

gesis^{MCU} 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		
Slave type		V3.0
Current consumption of AS-i (mA)		Standard slave
Motor current parameterization available		max. 200
Brake activation		yes
Motor protection via thermistor		no
Motor protection via thermal motor model		yes
Switching rate		max. 1000/h
Conductor connection power feed-in		Plug connection RST20i5
Connection type AS-i		Plug connection M12
Connection type Sensors		Plug connection M12
Connection type Motor output		Plug connection RST20i5
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 96 x 161
Approvals		-

The soft starter, mounted remotely from the power bus



Solution 4:

AS-i laid separately
 → Fixed connection on the power bus,
 pluggable on the motor starter



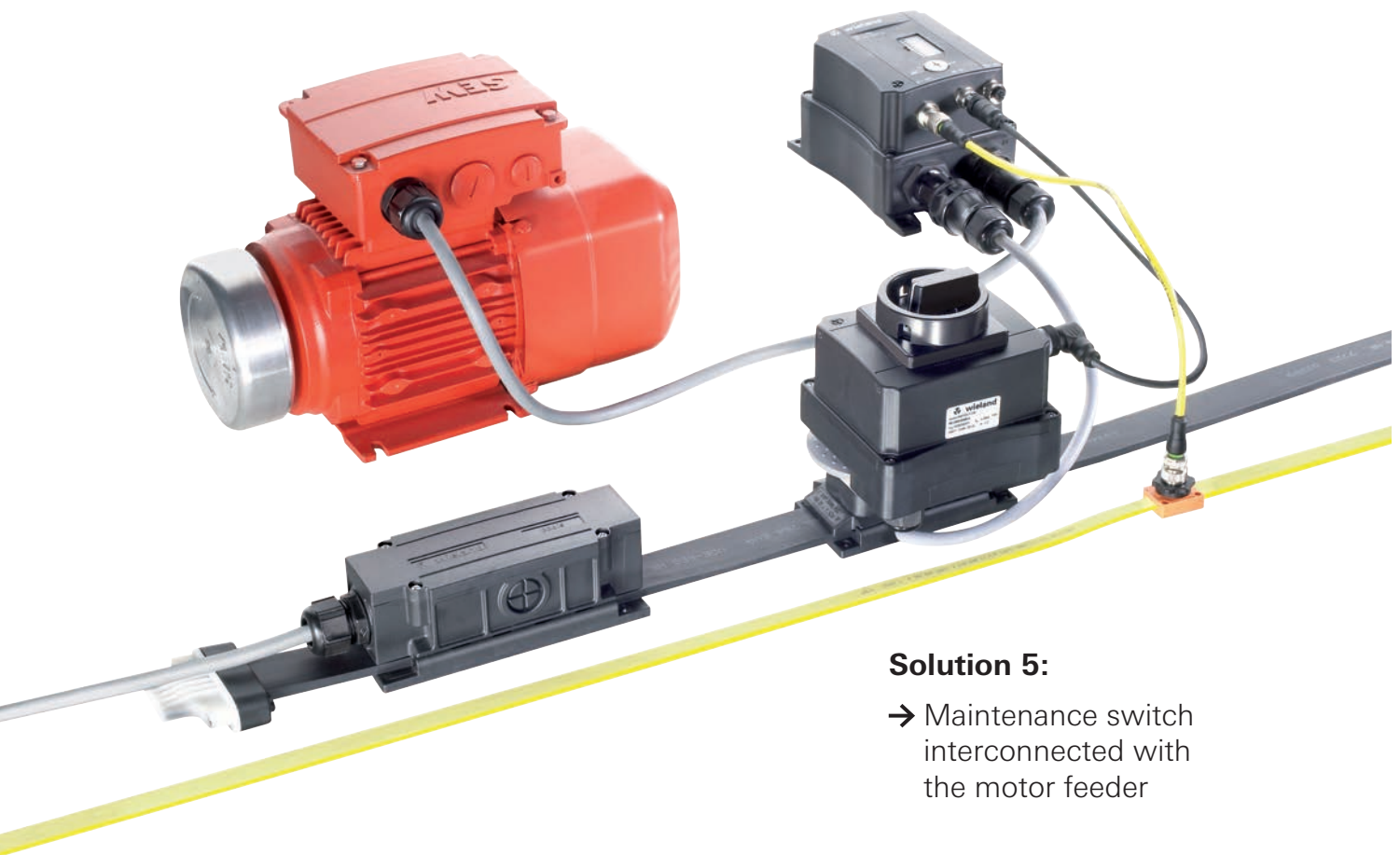
gesis^{MSS} PA V 31/W1,5 Soft starter direct plug-in

gesis^{MSS} PA V 31/W1,5; soft starters with reversing function for three-phase asynchronous motors of 0.09 - 1.5 kW / 400 V AC; 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) infeed via RST20i5 black, plug; motor output via RST20i5 black, socket; function: Soft starting and stopping; reversing function; electronic motor protection; parameterization of nominal motor current, ramp-up time/deceleration time; minimum current, current asymmetry, reversing break, blocking of rotational direction (direct starter) via parameter download AS-i; diagnosis on the device via LED or via AS-Interface



Description	Type	Order No
gesis ^{MSS}	PA V 31/W1,5	83.235.0009.5
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
Number of inputs		3
Number of motor outputs		1
AS-i specification		
Slave type		Standard slave
Current consumption of AS-i (mA)		max. 200
Motor current parameterization available		yes
Starting voltage		0-100%
Starting time		0.1-10s
Deceleration time		0.1-10s
Brake activation		no
Motor protection via thermistor		no
Motor protection via thermal motor model		yes
Switching rate max.		1000/h
Conductor connection power feed-in		Plug connection RST20i5
Connection type AS-i		Plug connection M12
Connection type Sensors		Plug connection M12
Connection type Motor output		Plug connection RST20i5
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)		108 x 96 x 161
Approvals		-

The maintenance switch plugged directly on the power bus



Solution 5:

→ Maintenance switch interconnected with the motor feeder

podis SWITCH F CM 3P1S 25A maintenance switch direct plug-in

podis SWITCH F CM 3P1S 25 A; podis CON plug with maintenance switch; 400 V AC, 3-pole with additional auxiliary contact; switch position indicator on M12 plug; rated continuous current I_n = 25 A; switching capacity according to AC23A/B = 11 kW / 400 V; according to AC3 = 7.5 kW / 400 V

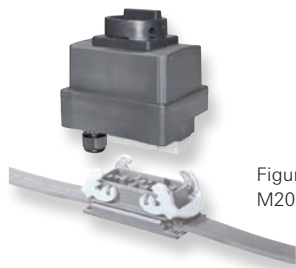
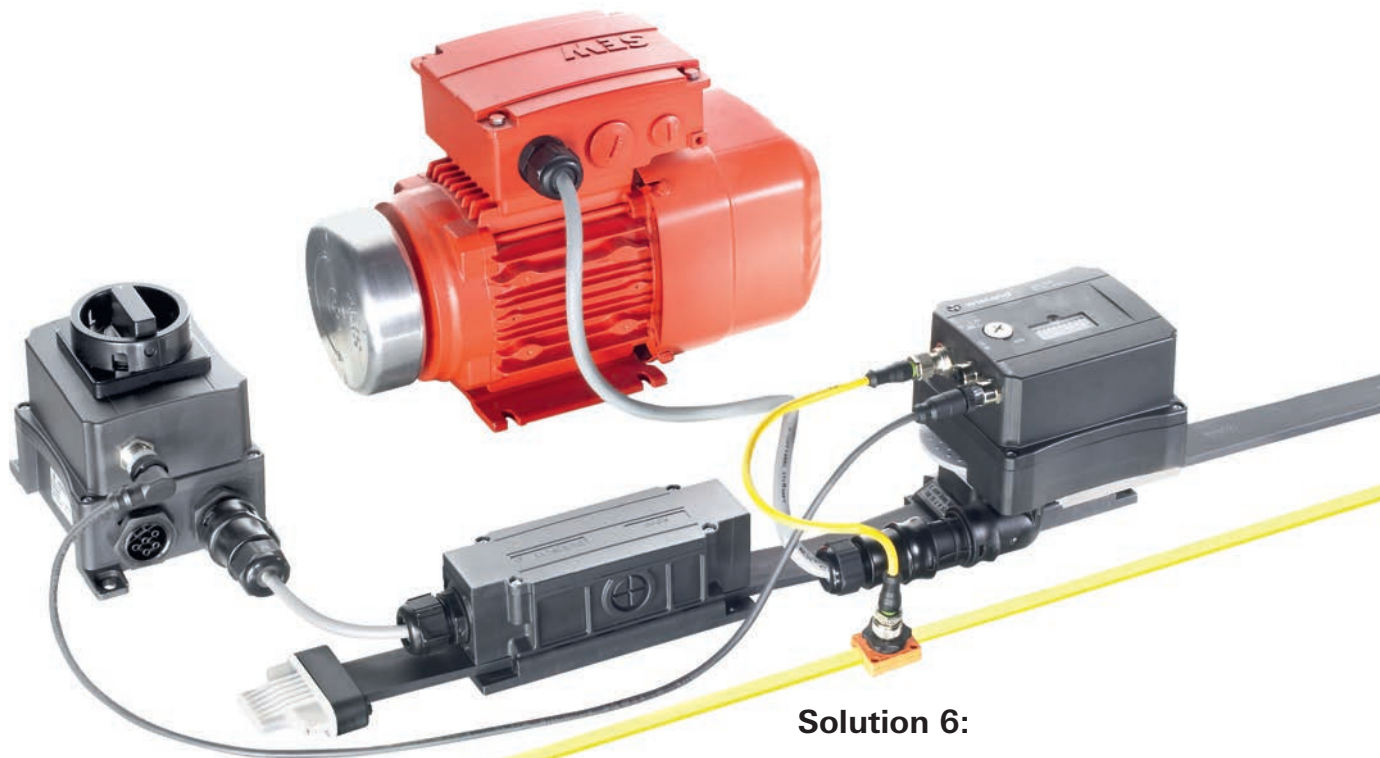


Figure similar (here with M20 screw connection)

Description	Type	Order No
podis SWITCH	F CM 3P1S 25A	83.226.0009.5
Technical data		
Nominal voltage (V)		400
Nominal current (A)		25
Conductor connection power feed-in		Plug connection podiscon
Conductor connection power feed-in		Plug connection RST20i5
Degree of protection		IP65
Wall mounting		yes
Mounting orientation		horizontal and vertical
W x H x D (mm) on FCS 4 7 SI BU		104 x 171 x 132
Approvals		-
Technical data switch		
Operating voltage (V)		400
Rated current AC-23 A (A)		25
Rated power AC-23 A/B (kW)		11
Rated power AC-3 (kW)		7,5
Number of poles		3
Auxiliary contact switch position (M12)		Yes

The maintenance switch, mounted remotely from the power bus



Solution 6:

→ Maintenance switch as a group switch on the power bus



gesis^{SWITCH} P CM 3P1S 20A maintenance switch on the power bus

gesis^{SWITCH} P CM 3P1S 20 A; RST distributor box with maintenance switch; 400 V AC, 3-pole with additional auxiliary contact; switch position indicator on M12 plug; rated continuous current I_u = 20 A; switching capacity according to AC23A/B = 11 kW / 400 V; according to AC3 = 7.5 kW / 400 V



Description	Type	Order No
gesis ^{SWITCH}	P CM 3P1S 20A	83.236.0009.5
gesis ^{SWITCH} with UL	RST1i1+1o	83.236.0009.6
Technical data		
Nominal voltage (V)		400
Nominal current (A)		20
Conductor connection power feed-in		Plug connection RST20i5
Connection type output switched		Plug connection RST20i5
Connection type output power bus unswitched		Plug connection RST20i5
Degree of protection		IP65
Wall mounting		yes
Mounting orientation		horizontal and vertical
W x H x D (mm)		104 x 168 x 130
Approvals		-
Technical data switch		
Operating voltage (V)		400
Rated current AC-23 A (A)		25
Rated power AC-23 A/B (kW)		11
Rated power AC-3 (kW)		7,5
Number of poles		3
Auxiliary contact switch position (M12)		Yes

Pre-assembled connection and interconnecting cables motor starter

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 cross-section (mm ²)		1.5
Design side 1		Plug
Design side 2		Socket
Cable type		Ölflex Classic 110 5G1.5 + PVC 3x0.34
Cable diameter (mm)		8.1 & 5.0
Cable length (m)		1.0
Versions		
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 cross-section (mm ²)		1.5
Design side 1		Plug
Design side 2		Socket
Cable type		Ölflex Classic 110 5G1.5
Cable diameter (mm)		8.1
Cable length (m)		0.5
Versions		
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

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

Connection cable, FCS 1,5 7SIFK_RST/M12-10 for connecting the motorstarter **gesis** MCU to the **podis** power bus; assembled with Ölflex cable 5G1,5mm² and PVC 3x0,34 mm² for AS-i 24VDC on FCS plug complete and M12 female, length 500 mm



Description	Type	Order No
podis CON Interconn. cable	FCS STSA 0,5 M	83.308.0501.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles		7
Cable cross-section (mm ²)		1.5
Design side 1		Plug
Design side 2		Socket
Cable type		Ölflex Classic 110 5G1.5 + PVC 3x0.34
Cable diameter (mm)		8.1 & 5.0
Cable length (m)		0.5
Versions		
Cable length (m)	1.0	FCS1,5 5SIFK_RST -10 83.308.1001.1
	1.5	FCS1,5 5SIFK_RST -15 83.308.1501.1
	3.0	FCS1,5 5SIFK_RST -30 83.308.3001.1

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

Pre-assembled connection and interconnecting cables motor starter

Motor connection cable

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 150 10SW, total length: 1 m



Description	Type	Order No
Assembled cable	RST20I4KS-S 150 10SW	96.442.1084.1
Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		4
Cable cross-section (mm ²)		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
Versions		
Cable length (m)	Type	Order No
2.0	RST20I4KS-S 150 20SW	96.442.2084.1
3.0	RST20I4KS-S 150 30SW	96.442.3084.1
4.0	RST20I4KS-S 150 40SW	96.442.4084.1
5.0	RST20I4KS-S 150 50SW	96.442.5084.1
6.0	RST20I4KS-S 150 60SW	96.442.6084.1
7.0	RST20I4KS-S 150 70SW	96.442.7084.1
8.0	RST20I4KS-S 150 80SW	96.442.8084.1
9.0	RST20I4KS-S 150 90SW	96.442.9084.1

Connection set

podis CON FC S SIFK

for connection of decentralized motor starter and frequency converter M200D (AS-i Basic und AS-i Standard) to podis power bus; connection module FCS 4 7 SI FK with AS-i M12 connector and AS-i/24VDC M12 female angled



Description	Type	Order No
Connection cable	FCS SIFK 4G1,5 Q4/2 A-15	83.320.1511.0
	FCS SIFK 4G1,5 Q4/2 SA-15	83.320.1511.1
	FCS SIFK 5G1,5 Q4/2 A-15	83.320.1521.0
	FCS SIFK 5G1,5 Q4/2 SA-15	83.320.1521.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles cable 1 cable 2		4; 5 4
Cross-section (mm ²) cable 1 cable 2		1.5 0,34
Connection type 1		Insulation piercing connection
Connection type 2		Plug-in connection
Type / color cable 1		Ölflex ROBUST 210 / black
Type / color cable 2		PUR-OB / yellow
Total length (m)		1.5

Connection set

podis CON FC S SIFK

for connection of decentralized motor starter and frequency converter (e.g. Siemens M200D, G110D, G120D, ET200PRO) to podis power bus; connection module FCS 4 7 SI FK assembled with Ölflex cable



Description	Type	Order No
Connection cable	FCS SIFK 4G1,5 Q4/2 15	83.321.1511.0
	FCS SIFK 4G1,5 Q4/2 S-15	83.321.1511.1
	FCS SIFK 5G1,5 Q4/2 15	83.321.1521.0
	FCS SIFK 5G1,5 Q4/2 S-15	83.321.1521.1
Technical data		
Rated voltage (V)		400
Rated current (A)		16
Number of poles		4; 5
Cable cross-section (mm ²)		1.5
Connection type 1		Insulation piercing connection
Connection type 2		Plug-in connection
Cable type / color		Ölflex ROBUST 210 / black
Total length (m)		1.5

AS-i-branch cable

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



Description	Type	Order No
AS-i-branch cable		83.209.2203.0

podis® – Solutions for Automotive



Application areas

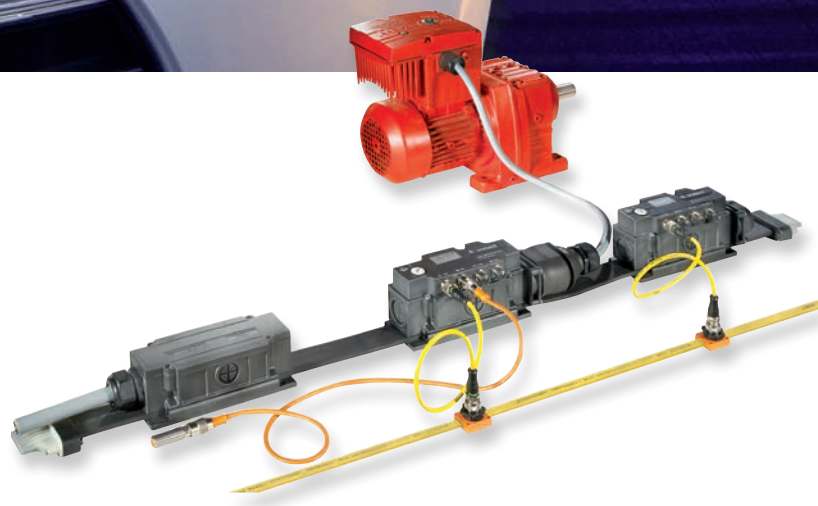
- Skid conveyors
- Floor conveyors
- Roller conveyors
- Carrying chain conveyors
- "Power and Free" systems

Solution

- Power distribution
- Field devices for SEW MOVIMOT
- Sensor connection

Features

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

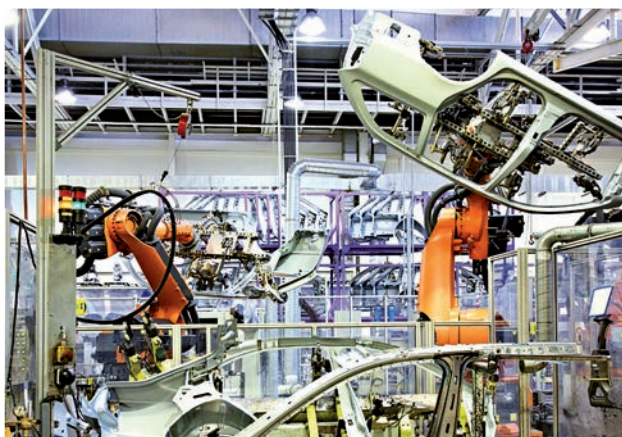


Field distributors for the uncut tray cable power bus

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 MOVI-SWITCH drives for efficient and flexible distribution of your system. In addition, up to three sensors can be connected to the extremely compact housings. Field distributors for the uncut

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.

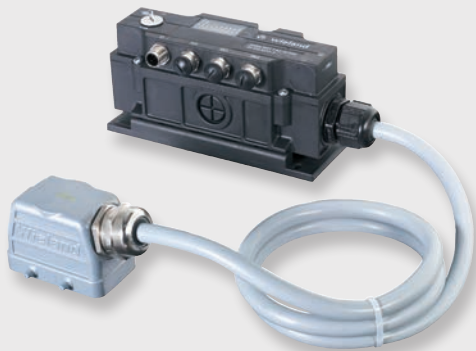


podis® MOT

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

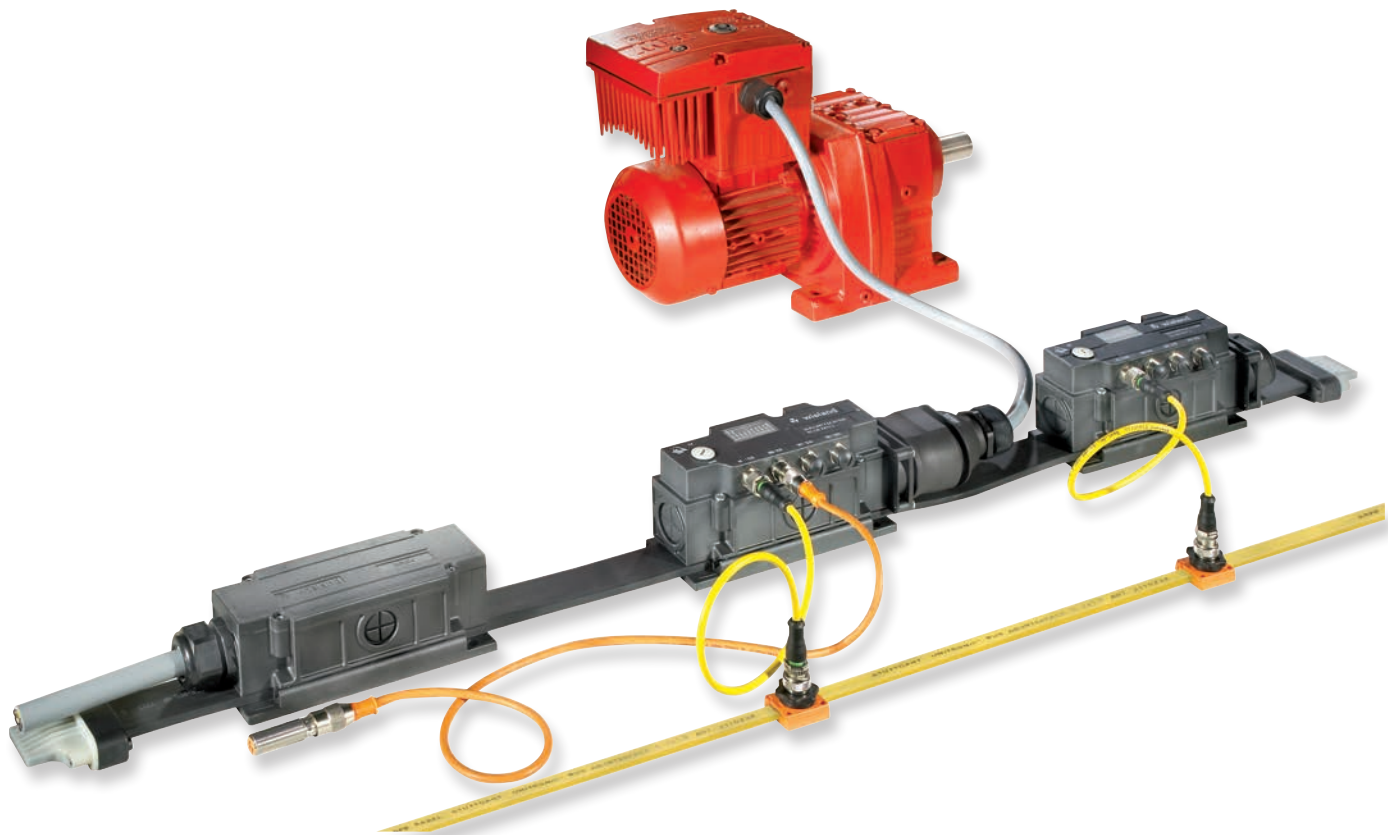
podis[®] MOT Configurations



podis[®] MOT **FA C** ...
Pre-assembled;
plug-in on the drive



podis[®] MOT **FA CP** ...
Plug-in on the field distributor



podis[®] MOT

Field distributors for the uncut tray cable power bus



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 (binär)

podis^{MOT} 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

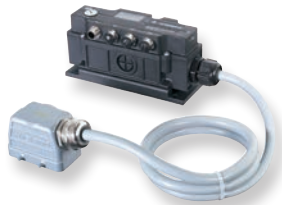


Description	Type	Order No
podis ^{MOT}	FA CP3I/1I4O	83.210.0005.2
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		2
Number of inputs		4
Number of outputs		4
Output current per channel (A)		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 (binär)

podis^{MOT} 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			
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

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

podis MOT FA CP 3I/RS485

podis MOT 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		
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Cable length Motor cable		siehe Seite 73
L x W x H (mm)		172 x 70.5 x 79.5
Approvals		

podis MOT FA C 3I/RS485

podis MOT 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		
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Pre-assembled motor connection cable		1.0
L x W x H (mm)		172 x 70.5 x 79.5
Approvals		
Versions		
Cable length (m)	Type	Order No
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

Field distributors for PROFIBUS-DP (binary interface to the drive)

podis^{MOT} FP CP 2I2IO/1I4O (binary)

podis^{MOT} FP CP 2I2IO/1I4O; field distributor at the PROFIBUS-DP for distributed loads (e.g. MOVIMOT or MOVI-SWITCH from SEW) on the podis tray 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		
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Cable length Motor cable		see page 73
L x W x H (mm)		168.5 x 70.5 x 79.5
Approvals		-

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

podis^{MOT}

FP CP2I2IO/RS485

podis^{MOT} FP CP 2I2IO/RS485 (SEW); field distributor at the PROFIBUS-DP for MOVIMOT from SEW on the **podis** tray cable power bus with degree of protection IP65, with integrated PROFIBUS-DP slave; power (400 VAC) + control (24 V, 0 V, serial interface RS485 – MOVILINK protocol); plug-in to the load via revosmot 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 CP2I2IO/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		
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Cable length Motor cable		see page 73
L x W x H (mm)		168.5 x 70.5 x 79.5
Approvals		

podis^{MOT}

FP C 2I2IO/RS485

podis^{MOT} FP C 2I2IO/RS485 (SEW) 10; field distributor at the PROFIBUS-DP for distributed loads on the **podis** tray 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			
Power bus connection type		Piercing connection	
Connection type Sensors		Plug connection	
Connection type Motor output		Plug connection	
Pre-assembled motor connection cable		1.0	
L x W x H (mm)		168.5 x 70.5 x 79.5	
Approvals			
Versions			
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

Assembled motor connection cables for podis[®] MOT-field distributors (binary interface)

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 (mm ²)		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		
Cable length (m)	Type	Order No
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 (mm ²)		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		
Cable length (m)	Type	Order No
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 (mm ²)		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		
Cable length (m)	Type	Order No
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

Assembled motor connection cables for podis® MOT-field distributors (RS485 interface)

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; insulation 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 cross-section (mm ²)		2.5	
Design side 1		Plug	
Design side 2		open end	
Cable end treatment		ultrasonically compressed wire ends	
Cable type		L12Y11Y4X2.5 +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 63 and following.

More assemblies on request



Single-phase switches for AS interface

podis SWITCH FA C 3I/10R

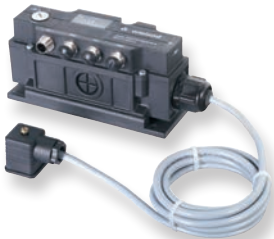
podis SWITCH FA C 3I/10R 15; field distributor at the AS-i for distributed loads (single-phase loads) on the podis tray cable power bus with degree of protection IP65, standard AS-i slave; one semiconductor switch output (230 V AC) via round cable 4x1.5 mm², (length 1500 mm) and valve plug (3 poles + ground); 3 digital initiator inputs on M12; AS-I connection via M12



Description	Type	Order No
podis SWITCH	FA C 3I/10R 15	83.217.1509.2
Technical data		
Rated voltage (V AC)		230/400
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		
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Pre-assembled motor connection cable		1.5
L x W x H (mm)		168.5 x 70.5 x 79.5
Approvals		-
Versions		
Cable length (m)	X.X - on request	FA C 3I/10R XX
		83.217.XX09.2

podis SWITCH FA C 3I/10T

podis SWITCH FA C 3I/10T 15; field distributor at the AS-i for distributed loads (single-phase loads) on the podis tray cable power bus with degree of protection IP65, standard AS-i slave; one relay 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/10T 15	83.221.1509.2
Technical data		
Rated voltage (V AC)		230/400
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		
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Pre-assembled motor connection cable		1.5
L x W x H (mm)		168.5 x 70.5 x 79.5
Approvals		-
Versions		
Cable length (m)	X.X - on request	FA C 3I/10T XX
		83.221.XX09.2

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

podis SWITCH FAIC -/2I2OR; field distributor at the AS-i for distributed loads (single-phase loads) on the podis tray cable power bus with degree of protection IP65, AS-i A/B slave; two relay outputs (230 V AC); two control inputs (24 VDC) via revos MINI (7 poles + ground) pluggable connector; AS-I bus signal from podis tray 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		
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Pre-assembled motor connection cable		-
L x W x H (mm)		196 x 70.5 x 79.5
Approvals		-

Input/output modules for AS interface

podis[®]/o FAJC 3IO Input/output module

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



Description	Type	Order No
podis [®] /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[®]/o FAIC 4I Input module AS-i integrated in the tray cable

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



Description	Type	Order No
podis [®] /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		



podis® LED – The maintenance-free light



podis® LED is the reliable lighting solution for industrial use in harsh environments. With their robust housing and insensitivity to vibration, these lights are especially suitable for illuminating work areas and routes in plant and machinery, both inside and out.



More information
is available in the brochure
„**podis**® LED“ Order No. 0832.1



Advantages of the LED lights:

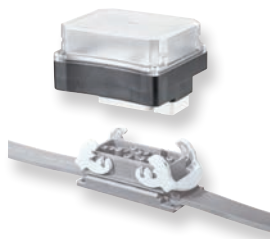
- Energy-saving LED technology
- Satisfies requirements for emergency lighting (DIN EN 60598-2-22)
- Suitable for extreme temperature ranges (-40 °C to +70 °C)
- Wide input voltage range
- Resists shock and vibrations



LED lights on power bus 24 V DC

podis^{LED} Luminaire FCS 24 V DC 5W

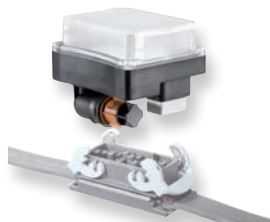
podis^{LED} FCS 24V DC 5W; energy saving LED-luminaire pluggable on tray cable outlet (Art.-No. 75.015.5153.1); for harsh industrial environments (e.g. wind turbines) and emergency light acc. EN 60598-2-22; orientation independent mounting; 15...32 V DC; 5 W; typ. 360 lm; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP65 encapsulation; operating temperature -40...+70 °C (-40...160 °F); EN 60598-1



Description	Type	Order No
podis ^{LED} Luminaire	FCS 24 V DC 5W	83.240.0010.0
Technical data		
Min. nominal voltage		15 V DC
Max. nominal voltage		32 V DC
Lamp		LED
Operation mode		Continuous
Lamp output		4.9 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		70 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Locked plug connection
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		podis ^{CON} plug connection
W x H x D (mm)		124 x 104 x 136
Approvals		

podis^{LED} Luminaire FCS 24 V DC 5W/RST 20i2

podis^{LED} FCS 24V DC 5W RST20i2; energy saving LED-luminaire pluggable on tray cable outlet (Art.-No. 75.015.5153.1) with RST 20i2 female outlet (brown coding) for remote LED lamp; for harsh industrial environments (e.g. wind turbines) and emergency light acc. EN 60598-2-22; orientation independent mounting; 15...32 V DC; 5 W; typ. 360 lm; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP65 encapsulation; operating temperature -40...+70 °C (-40...160 °F); EN 60598-1



Description	Type	Order No
podis ^{LED} Luminaire	FCS 24 V DC 5W/ RST20i2	83.240.0011.0
Technical data		
Min. nominal voltage		15 V DC
Max. nominal voltage		32 V DC
Lamp		LED
Operation mode		Continuous
Lamp output		4.9 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		70 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Locked plug connection
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		podis ^{CON} plug connection
W x H x D (mm)		124 x 104 x 136
Approvals		

podis^{LED} Luminaire RST 24 V DC 5W

podis^{LED} RST 24V DC 5W; energy saving LED-luminaire pluggable by round connectors RST, opposite configuration, brown coding; for harsh industrial environments (e.g. wind turbines) and emergency light acc. EN 60598-2-22; orientation independent mounting; 15...32 V DC; 5 W; typ. 360 lm; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP66/68 encapsulation; operating temperature -40...+70 °C (-40...160 °F); EN 60598-1



Description	Type	Order No
podis ^{LED} Luminaire	RST 24V DC 5W	83.240.0030.0
Technical data		
Min. nominal voltage		15 V DC
Max. nominal voltage		32 V DC
Lamp		LED
Operation mode		Continuous
Lamp output		4.9 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		70 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		wall-mounted
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		RST 20i2 plug connection
W x H x D (mm)		161 x 104 x 96
Approvals		

Assembled cables see page 88

LED lights on power bus 24 V DC

podis^{LED} Luminaire MIN 24 V DC 5WM

podis^{LED} MIN 24V DC 5W; energy saving LED-luminaire pluggable by **revos** MINI Q5; for harsh industrial environments (e.g. wind turbines) and emergency light acc. EN 60598-2-22; orientation independent mounting; 15...32 V DC; 5 W; typ. 360 lm; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP66/68 encapsulation; operating temperature -40...+70 °C (-40...160 °F); EN 60598-1

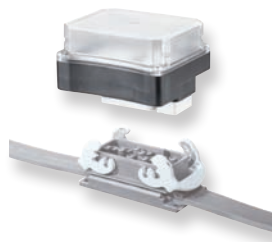


Description	Type	Order No
podis^{LED} Luminaire	MIN 24V DC 5W	83.240.0050.0
Technical data		
Min. nominal voltage		15 V
Max. nominal voltage		32 V
Lamp		LED
Operation mode		Continuous
Lamp output		4,9 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		70 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Wall-mounted
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		revos MINI Q5 plug connection
W x H x D (mm)		124 x 125 x 96
Approvals		

LED lights on power bus 70-250 V AC

podis^{LED} Luminaire FCS 70-250 V AC 5W

podis^{LED} FCS 70-250 V AC 5W; energy saving LED-luminaire pluggable on tray cable outlet (Art.-No. 75.015.5153.1); for harsh industrial environments (e.g. wind turbines) and emergency light acc. EN 60598-2-22; orientation independent mounting; 70...250 V AC; 5 W; typ. 360 lm; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP65 encapsulation; operating temperature -40...+55 °C (-40...130 °F); EN 60598-1



Description	Type	Order No
podis^{LED} Luminaire	FCS 70-250 V AC 5W	83.241.0020.0
Technical data		
Min. nominal voltage		70 V AC
Max. nominal voltage		250 V AC
Connected phase		L1
Lamp		LED
Operation mode		Continuous
Lamp output		5W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		55 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Locked plug connection
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		podis con plug connection
W x H x D (mm) on FCS 4 7 BI BU		124 x 104 x 136

podis^{LED} Luminaire RST 70-250V AC 5W

podis^{LED} RST 70-250 V AC 5W; energy saving LED-luminaire pluggable by round connectors RST 20I3, opposite configuration, black coding; for harsh industrial environments (e.g. wind turbines) and emergency light acc. EN 60598-2-22; orientation independent mounting; 70...250 V AC; 5 W; typ. 360 lm; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP66/68 encapsulation; operating temperature -40...+ 55 °C (-40...130 °F); EN 60598-1



Description	Type	Order No
podis^{LED} Luminaire	RST 70-250 V AC 5W	83.241.0040.0
Technical data		
Min. nominal voltage		70 V AC
Max. nominal voltage		250 V AC
Lamp		LED
Operation mode		Continuous
Lamp output		5W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		55 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Wall-mounted
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		RST 20I3 black plug connection
W x H x D (mm)		161 x 104 x 96

LED lights on power bus 24 V DC, 20 W

podis^{LED} Luminaire FCS 24V DC 20W

podis^{CON} FCS 24V DC 20W; energy saving LED-luminaire; pluggable on tray cable outlet (Art.-No. 75.015.5153.1); for industrial environments (e.g. wind turbines, shafts, machines), working places and emergency light acc. EN 60598-2-22; orientation independent mounting; typ. 2000 lm; 15...32 V DC; 17,5W; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP 65 encapsulation; operating temperature -40...+55 °C (-40...+130 °F); EN 60598-1



Description	Type	Order No
podis^{LED} Luminaire	FCS 24 V DC 20W	83.240.0110.0
Technical data		
Min. nominal voltage		15 V
Max. nominal voltage		32 V
Lamp		LED
Operation mode		Continuous
Lamp output		17.5 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		55 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Locked plug connection
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		podis^{CON} plug connection
W x H x D (mm) on FCS 4 7 SI BU		300 x 149 x 100

podis^{LED} Luminaire RST 24 V DC 20W

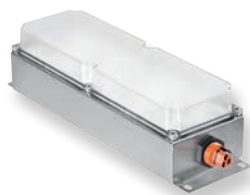
podis^{LED} RST 24V DC 20W; energy saving LED-luminaire; pluggable by round connectors RST 20i2, opposite configuration, brown coding; for industrial environments (e.g. wind turbines, shafts, machines), working places and emergency light acc. EN 60598-2-22; orientation independent mounting; typ. 2000 lm; 15...32 V DC; 17,5W; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP 66/68 encapsulation; operating temperature -40...+55 °C (-40...+130 °F); EN 60598-1



Description	Type	Order No
podis^{LED} Luminaire	RST 24 V DC 20W	83.240.0130.0
Technical data		
Min. nominal voltage		15 V
Max. nominal voltage		32 V
Lamp		LED
Operation mode		Continuous
Lamp output		17.5 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		55 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Locked plug connection
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		gesis[®] RST20i2 plug connection
W x H x D (mm)		347 x 83 x 100

podis^{LED} Luminaire RST 24 V DC 20W LS

podis^{LED} RST 24V DC 20W LS; energy saving LED-luminaire with integrated optic; pluggable by round connectors RST 20i2, opposite configuration, brown coding; optimized for long rooms, such as towers, shafts, corridors, tunnels, especially as emergency light acc. EN 60598-2-22; orientation independent mounting; 15...32 V DC; 20 W; typ. 2000 lm; daytime white, 6500 K; integrated reverse polarity-, overload- and shortage protection; IP 65 encapsulation; operating temperature -40...+55 °C (-40...+130 °F); EN 60598-1



Description	Type	Order No
podis^{LED} Luminaire	RST 24 V DC 20W LS	83.240.1130.0
Technical data		
Min. nominal voltage		15 V
Max. nominal voltage		32 V
Lamp		LED
Operation mode		Continuous
Lamp output		17.5 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		55 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Locked plug connection
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		gesis[®] RST20i2 plug connection
W x H x D (mm)		347 x 83 x 100

LED lights on power bus 90-250 V AC, 20 W

podis^{LED} Luminaire FCS 90-250 V AC 20W



Description	Type	Order No
podis^{LED} Luminaire	FCS 90-250 V AC 20 W	83.241.0110.0
Technical data		
Min. nominal voltage		90 V AC
Max. nominal voltage		250 V AC
Lamp		LED
Operation mode		Continuous
Lamp output		20 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		55 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Locked plug connection
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		podis con plug connection
W x H x D (mm) on FCS 4 7 SI BU		300 x 149 x 100

podis^{LED} Luminaire RST 90-250 V AC 20W



Description	Type	Order No
podis^{LED} Luminaire	RST 90-250 V AC 20 W	83.241.0130.0
Technical data		
Min. nominal voltage		90 V
Max. nominal voltage		250 V
Lamp		LED
Operation mode		Continuous
Lamp output		20 W
Fuse		Device fuse
Reverse polarity protection		yes
Emergency light marking		Z 1 ***
Light colour		6500 K
Ambient temperature Ta min.		-40 °C
Ambient temperature Ta max.		55 °C
Storage temperature / transport min.		-40 °C
Storage temperature / transport max.		70 °C
Standards		DIN EN 60598-1, DIN EN 60598-2-22
Installation type		Locked plug connection
Switching type		Maintained / non-maintained
Protection class (IP)		IP65
Power supply		gesis ® RST20i3 plug connection
W x H x D (mm)		347 x 83 x 100



podis[®]CON 7G4 Tray cable – current load capacity

In accordance with the applicable regulations, the installation, commissioning and maintenance of all **podis[®]CON** components must be carried out by qualified expert personnel.

The **podis[®]CON** tray cable must be fused with a mains disconnection switch in compliance with DIN VDE 0100 Part 460 and 537. **podis[®]CON** must only be operated on mains with grounded supply (TN-S systems). A non-grounded installation of **podis[®]** systems is not permitted.

According to DIN VDE 0100-520, cables and cable systems including accessories must only be installed at ambient temperatures that are within the applicable cable standards or the limit values stated by the manufacturer.

You will find the limit values for the tray cable for a given fuse in dependence on the type of installation and the number of loaded conductors in Table 1 presented below.

The limit values for the connection components in dependence on the temperature and the loaded strands are found in Table 2.

Table 1: Current load capacity of the **podis[®]CON** tray cable PVC 7G4 mm² (00.709.0504.1)

Loaded strand	In the open d > 10 mm			Loose on wall or floor			Cable duct		
	3	5	6	3	5	6	3	5	6
Ta [°C]	Max. cross current			Max. cross current			Max. cross current		
20	40	35	35	40	32	32	35	30	25
25	40	35	35	35	32	30	35	30	25
30	40	35	32	35	30	25	32	25	25
35	35	32	30	32	25	25	30	25	25
40	35	30	25	30	25	25	25	20	20
45	32	25	25	25	20	20	25	20	20
50	25	25	20	25	20	20	20	20	16

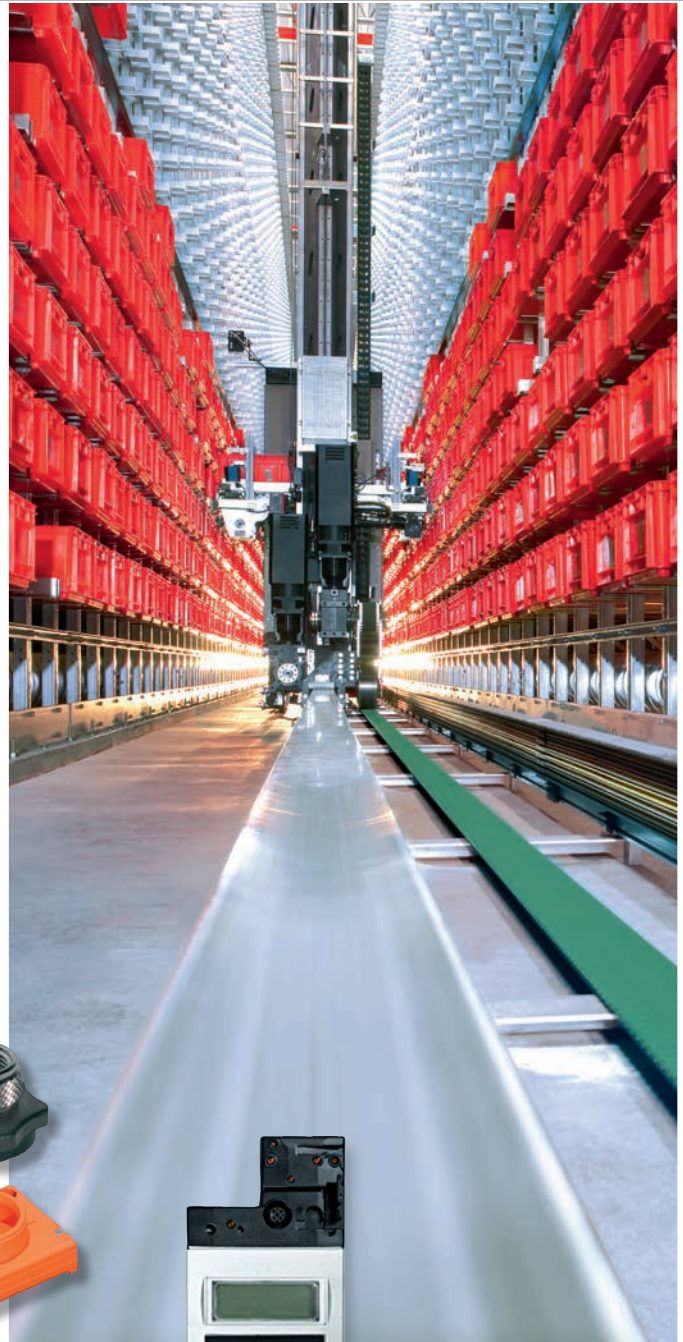
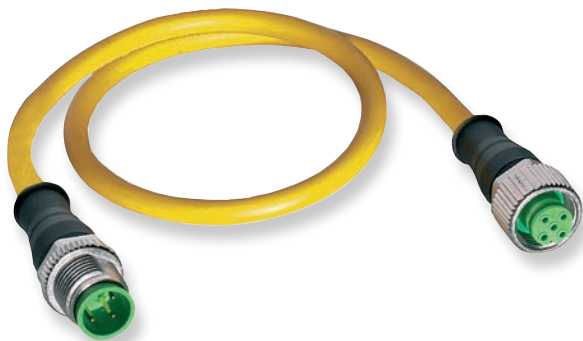
Table 2: Limit values of the **podis[®]CON** connection components on the tray cable EVA 7G4 mm² (00.709.0504.1), valid for:

- Connection module, fixed 7-pole tension spring connection (75.018.0051.2) and tray cable outlet pluggable; 7-pole (75.015.5153.1)


Ambient temperature Ta [°C]	Contacting point						
	1	2	3	4	PE	5	6
20	25	25	25	0	0	25	25
25	25	25	25	0	0	25	25
30	25	25	25	0	0	20	20
35	25	25	25	0	0	10	10
40	23	23	23	0	0	23	23
50	19	19	19	0	0	19	19
70	12	12	12	0	0	12	12


The entire world of accessories

Wieland Electric offers you the right accessory for every application. Whether professional tools, end pieces or adapters are concerned – naturally all accessory parts comply with the prescribed standards. With the decision for Wieland original accessories, you are always right.




PROFIBUS DP Accessories

<p>PROFIBUS DP terminating resistor M12</p> <p>PROFIBUS DP plug with terminating resistor M12</p> 	Description	Type	Order No
	Bus end piece	terminating resistor M12	88.000.0230.0

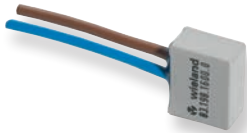
<p>Round cable connection RVDP SW12 BW12 06</p> <p>M12 interconnecting cable RVDP SW12 BW12 06; B-coded, plug angled to socket angled; shielded, for PROFIBUS DP, cable length 600 mm</p> 	Description	Type	Order No
	Round cable connection	RVDP SW12 BW12 06	83.403.0611.9
Technical data nach			
Number of poles			3
Cable length			0.6 m
Sheath material			PUR (Polyurethane)
Sheath color			purple
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

Cable gland

	Description	Type	Order No
	Cable gland	M20x1.5 black	Z5.507.1353.1
	Cable gland	M20x1.5 with AS-i insert black	Z5.505.0653.1
	Lock nut	M20x1.5 black	05.505.0153.1
	Cable gland	M25x1.5, (for cable 9-16 mm) black	Z5.507.1453.1
	Cable gland	M25x1.5, (for cable 13-18 mm) black	Z5.507.1553.1
	Lock nut	M25x1.5 black	05.505.0253.1

AS-i Accessories

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	<i>podis</i> 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	Type	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 gland M 20 x 1.5 with AS-i insert



Cable gland 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 gland	M 20 x 1.5 with AS-i insert	Z5.505.0653.1



Round cable adapter / front side pluggable connector

Outgoing round cable FCS 4 7 SA BU SU



podis con 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

Hood FCS GOT 16 GB FLD



Upper housing BAS GOT16 FCS ZH; with **podis** tray cable feedthrough, for two-hand locking without locking; degree of protection IP65; color: silver gray RAL 7001

Description	Type	Order No
Hood	FCS GOT 16 GB FLD	75.900.1628.0

Hood FCS GOT 16 GF FLD



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

Description	Type	Order No
Hood	FCS GOT 16 GF FLD	75.900.1528.0

Bottom FCS GUT 16 GZ FLD



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

Description	Type	Order No
Bottom	FCS GUT 16 GZ FLD	75.900.1028.0

Female insert POW BU S 6 6.0 69 AG



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

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

Male insert POW STS 6 6.0 69 AG



revos POWER 6 pole + PE, male insert, 690

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

Accessories for power bus

<p>Cable end piece</p>  <p>Cable end piece for podis tray cable 7 x 2.5 mm² and 7 x 4 mm²; degree of protection IP65; black / transparent</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Cable end piece</td> <td>Z5.562.7553.1</td> </tr> </tbody> </table>	Description	Order No	Cable end piece	Z5.562.7553.1		
Description	Order No						
Cable end piece	Z5.562.7553.1						
<p>Feed-through tray cable</p>  <p>Housing feed-through for podis tray cable 7 x 2.5 mm² and 7 x 4 mm²; degree of protection IP65; black</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Feed-through tray cable</td> <td>Z5.563.6553.1</td> </tr> </tbody> </table>	Description	Order No	Feed-through tray cable	Z5.563.6553.1		
Description	Order No						
Feed-through tray cable	Z5.563.6553.1						
<p>Sealing</p>  <p>Blind seal for feed-through Z5.563.6553.1; black</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Sealing</td> <td>05.563.7983.0</td> </tr> </tbody> </table>	Description	Order No	Sealing	05.563.7983.0		
Description	Order No						
Sealing	05.563.7983.0						
<p>Mounting clip</p>  <p>Mounting clip, light gray</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Mounting clip</td> <td>05.562.3000.0</td> </tr> </tbody> </table>	Description	Order No	Mounting clip	05.562.3000.0		
Description	Order No						
Mounting clip	05.562.3000.0						
<p>Tray cable sleeve</p>  <p>Sealing sleeve for podis CON tray cable, for sealing the contact points, degree of protection IP 65; black</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Tray cable sleeve</td> <td>Z1.005.6553.1</td> </tr> </tbody> </table>	Description	Order No	Tray cable sleeve	Z1.005.6553.1		
Description	Order No						
Tray cable sleeve	Z1.005.6553.1						
<p>Cover BAS AD DA 16</p>  <p>Protective cover without locking and without sealing BG 16 for outgoing tray cable 75.015.5153.1</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Type</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Protective cover</td> <td>BAS AD DA 16</td> <td>07.409.7256.0</td> </tr> </tbody> </table>	Description	Type	Order No	Protective cover	BAS AD DA 16	07.409.7256.0
Description	Type	Order No					
Protective cover	BAS AD DA 16	07.409.7256.0					
<p>Cover plate 10</p>  <p>Cover plate, size 10, perforated for 1x feed-through Z5.563.6553.1; light gray RAL 7035</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Cover plate 10</td> <td>Z5.563.7553.0</td> </tr> </tbody> </table>	Description	Order No	Cover plate 10	Z5.563.7553.0		
Description	Order No						
Cover plate 10	Z5.563.7553.0						



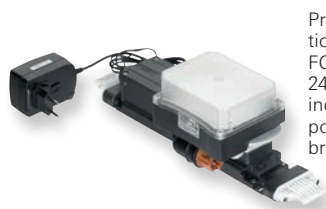
Tools and sample kits

podis CON sample set 7G4



Description	Order No
podis sample kit	99.780.0000.0

podis LED sample set



Prepared components to build a functional luminaire unit with **podis** LED FCS 24 V; power supply with 100... 240 V AC input, output 24 V DC; including a set pf plug for international power sockets; extendable by RST20i2 brown

Description	Order No
podis LED sample set	99.762.0000.0

Cutter



Cutter; manual tool for trimming the **podis** tray cables EVA 7 x 4 mm² (00.709.0504.1) and XLPE 7 x 4 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 tray cable
Please note: suitable for **podis** CON tray cable (00.705.0503.3) only

Description	Order No
Stripping pliers	95.350.0300.0

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
Screw driver blade Torx 15	06.502.6210.0

Power supply unit



Description	Order No
Power supply unit	99.682.0000.0

Mounting plates

Mounting plate for RST ® housing		Description	Order No.
			
 <p>Mounting plate for easy installation inside wire tray with grid 50 x 100 mm; secure fastening with no loose parts (screws, nuts, rivets, etc.); stainless steel; 2 pieces needed per luminaire</p>		<p>Applicable to Art.No.: 83.240.0030.0 83.240.0031.1 83.241.0040.0 83.240.0050.0</p>	<p>Mounting plate 05.560.3419.0</p>
 <p>Mounting plate for easy installation outside wire tray with grid 50 x 100 mm; secure fastening with no loose parts (screws, nuts, rivets, etc.); stainless steel</p>		<p>Applicable to Art.No.: 83.240.0030.0 83.240.0031.1 83.241.0040.0 83.240.0050.0</p>	<p>Mounting plate G0.500.2041.5</p>
Mounting plate for podis ® CON 7G4		Description	Order No.
			
 <p>Similar to illustration</p> <p>Mounting plate for easy installation outside wire tray with grid 50 x 100 mm / 35...40 x 100 mm</p>		<p>Applicable to Art.No.: 75.015.5153.1 75.018.0051.2</p>	<p>Mounting plate 05.560.3619.0</p>
 <p>Mounting plate for easy installation outside wire tray with grid 50 x 100 mm / 25 x 100 mm</p>		<p>Applicable to Art.No.: 75.015.5153.1 75.018.0051.2</p>	<p>Mounting plate 05.560.4219.0</p>



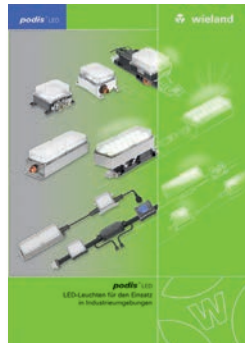
Mounting plates

<p>Mounting plate for podis[®] LED 20 W</p> 	<table border="1"> <thead> <tr> <th>Description</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Mounting plate</td> <td>05.560.3319.0</td> </tr> </tbody> </table>	Description	Order No	Mounting plate	05.560.3319.0
Description	Order No				
Mounting plate	05.560.3319.0				
 <p>Mounting plate for easy installation of podis LED 2klm (20 W) outside wire tray with grid 50 x 100 / 35...40 x 100 mm</p>	<p>Applicable to Art.No.: podis[®] LED 20W 83.24x.x1xx.x 83.24x.x2xx.x 99.80x.0220.0</p> <table border="1"> <tbody> <tr> <td>Mounting plate</td> <td>05.560.4019.0</td> </tr> </tbody> </table>	Mounting plate	05.560.4019.0		
Mounting plate	05.560.4019.0				
 <p>Similar to illustration</p> <p>Mounting plate for easy installation outside wire tray with grid 50 x 100 / 25 x 100 mm; secure fastening with no loose parts (screws, nuts, rivets, etc.); stainless steel</p>	<p>Applicable to Art.No.: podis[®] LED 20W 83.24x.x1xx.x 83.24x.x2xx.x 99.80x.0220.0</p>				
<p>Mounting plate for podis[®] CON 7G4</p> 	<table border="1"> <thead> <tr> <th>Description</th> <th>Order No</th> </tr> </thead> <tbody> <tr> <td>Mounting plate</td> <td>05.569.4210.0</td> </tr> </tbody> </table>	Description	Order No	Mounting plate	05.569.4210.0
Description	Order No				
Mounting plate	05.569.4210.0				
 <p>Mounting plate for easy installation on cable duct with width 100 mm</p>	<p>Applicable to Art.No.: 75.015.5153.1 75.018.0051.2</p>				

Overview



0831.1 podis®
Solutions for Decentralized Automation



0832.1 podis® LED
LED lights for use in industrial environments



0833.1
Solutions for conveyor technology
The motor starter on the power bus

Now also on YouTube:
podis® tray cables 5G6
and 5G16



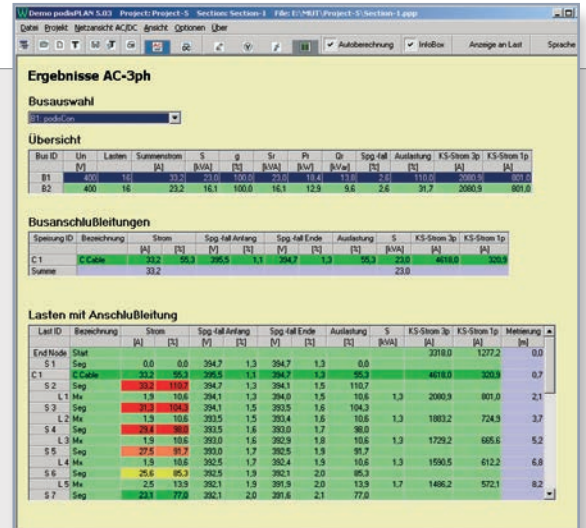
podis[®] PLAN – Efficient project planning tool

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 starshaped 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.



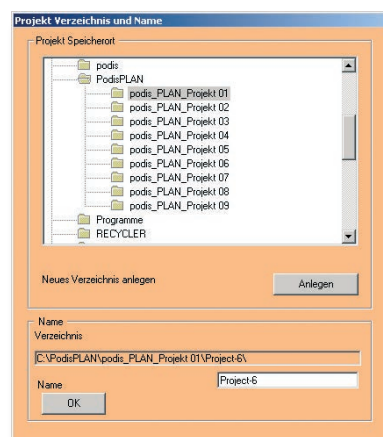
Results are provided in diagram or table form.

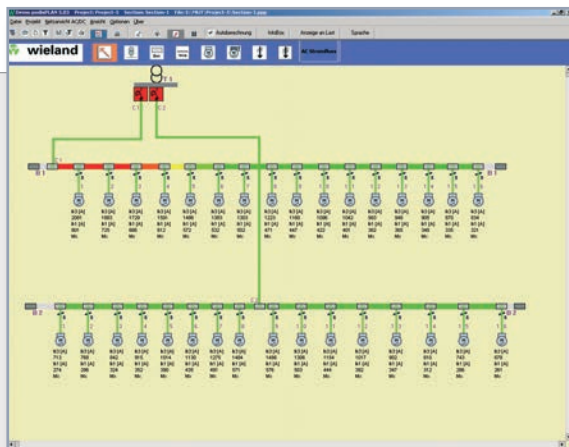
Entry of group protection, cable and load parameters:

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

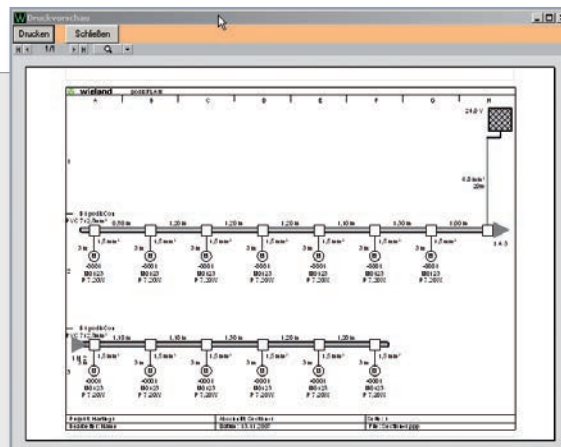
Enterparameters:

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





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.

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

podis[®]PLAN

podis[®]PLAN 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/7/8/10

Please note: licensed version – activation via license key



RST®

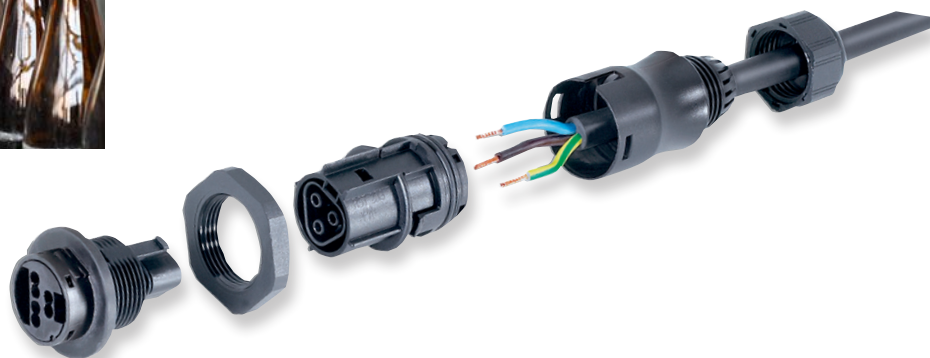
The plug-in electrical installation also for industrial use



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

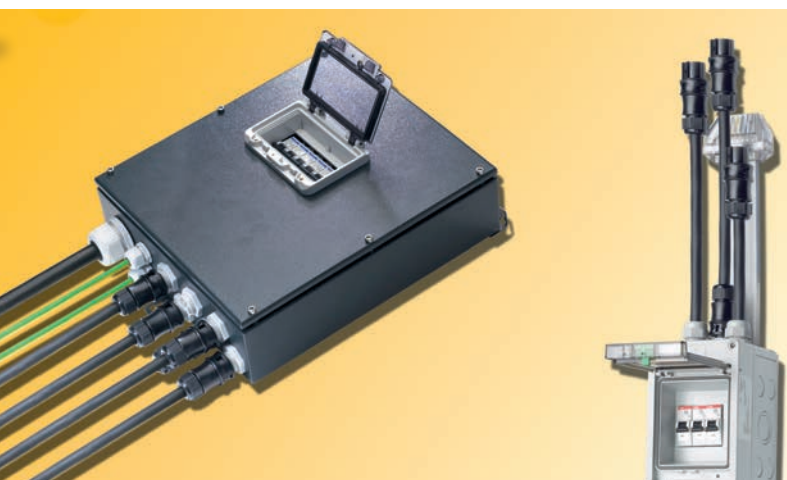
As a complete installation system, **RST®** provides significant reduction of installation time. The components, fully assembled at the factory, only need to be plugged together in the field – no trimming, stripping or removing insulation.

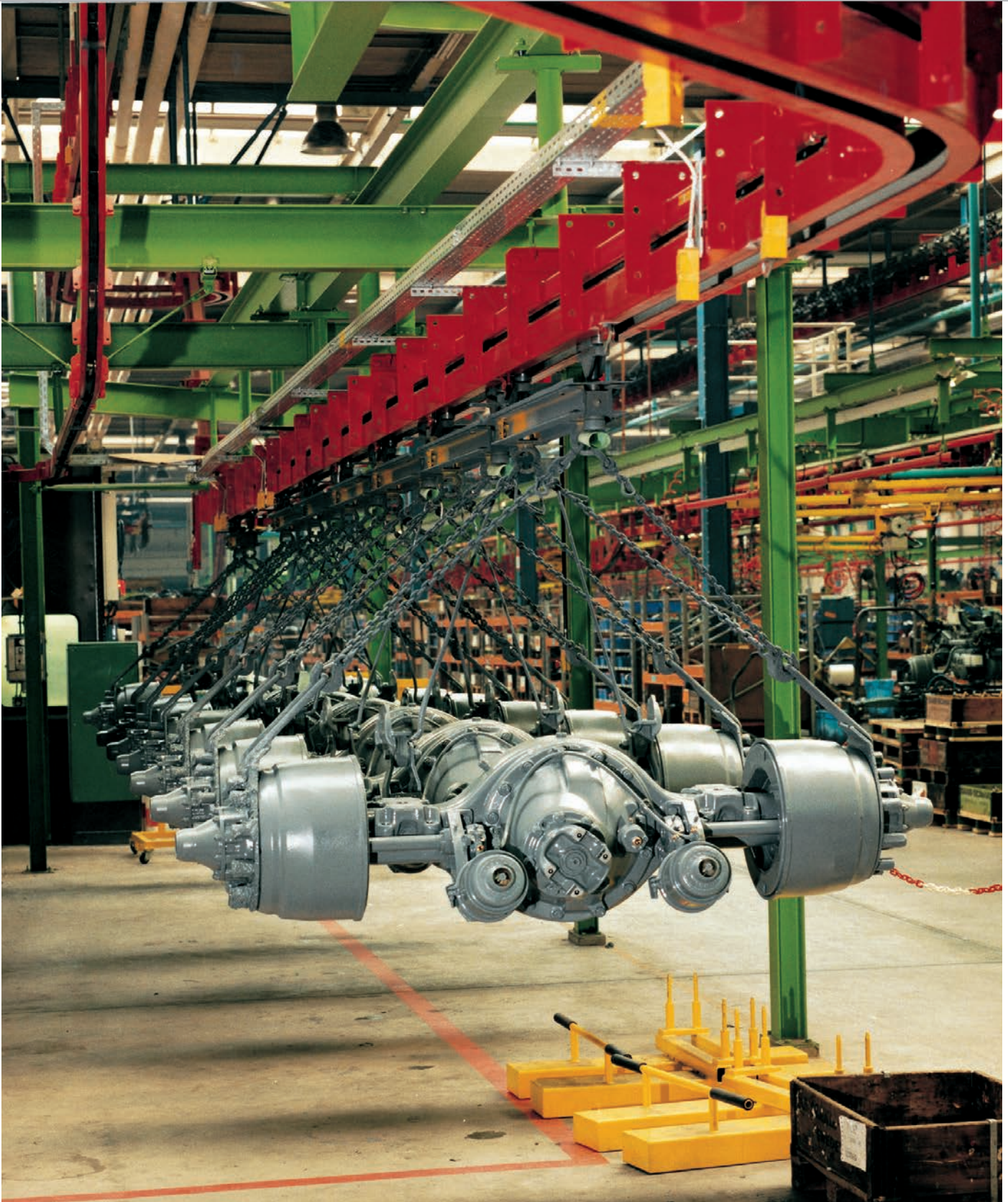
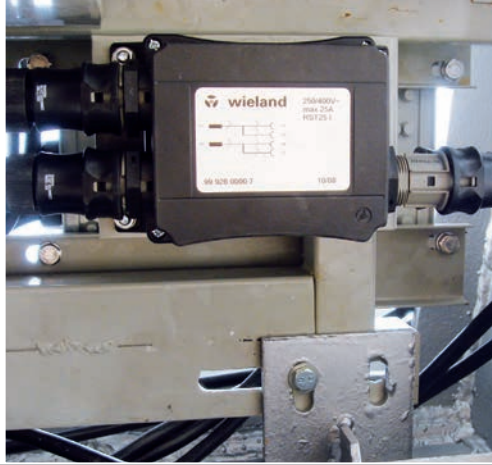
This substantially reduces operational downtime. In case of defective devices or routine maintenance, loads can rapidly be disconnected from power. Another advantage is the fact that technicians no longer need to open the device for electrical connection. Faulty assembly is thereby eradicated, especially with water-protected devices.



Applications

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





RST®

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 **RST®** 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 **RST®** 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.



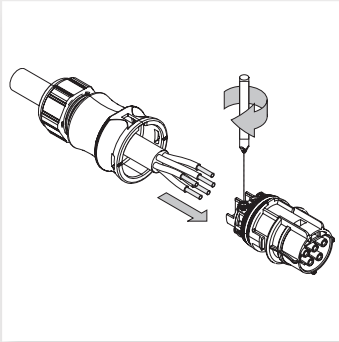
See also:

- RST 20i3 mains with PE
- RST 20i4 mains with PE
- RST 20i5 mains with PE

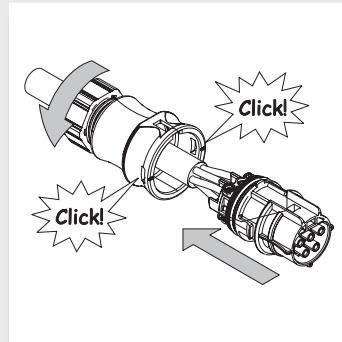


RST®

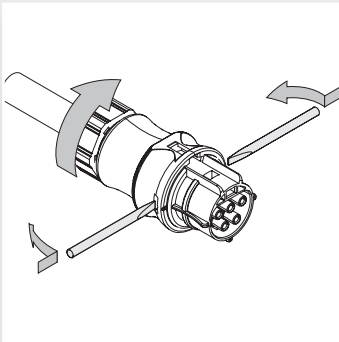
– Plug in and go



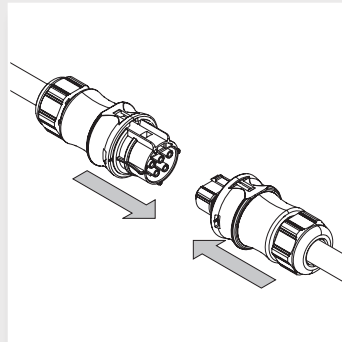
Connect conductor



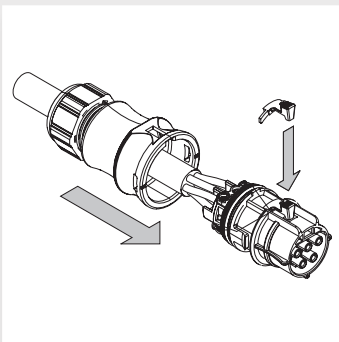
Close ...



or open ...



plug in or lock – ready!



Unlock plug connection



Advantages

- Touch-protected
- Neat cable run
- Easy extension or modification
- Reusable
- Mechanically coded
- Integrated locks and strain reliefs
- Degree of protection IP66 / 68 (3m, 2h) / 69

RST®

– 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 plugable 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; Degree of protection IP66 / 68 (3 m, 2 h) / 69K; unassembled with cable gland 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; Degree of protection IP66 / 68 (3 m, 2 h) / 69K; unassembled with cable gland 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; Degree of protection IP66 / 68 (3 m, 2 h) / 69K; unassembled with cable gland 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; Degree of protection IP66 / 68 (3 m, 2 h) / 69K; unassembled with cable gland 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; Degree of protection IP66 / 68 (3 m, 2 h) / 69K; unassembled with cable gland 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; Degree of protection IP66 / 68 (3 m, 2 h) / 69K; unassembled with cable

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/Device connector M25

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 gland 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 gland 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		-

Female connector with strain relief



Connector RST25i5, 5-pole, screw technology female connector, 250V/25A, for cable diameter 10-14 mm, coding color concrete gray, housing color black

Description	Type	Order No
Female connector	RST25i5S B1 ZR2S BGO	96.051.4154.3
Technical data		
Rated voltage		250 V
Rated current (A)		25 A
Model		Female
Connection type		Screw connection
Number of poles		5
Cable diameter		10-14 mm
Certificates / Approvals		

Male connector with strain relief



Connector RST25i5, 5-pole, screw technology male connector, 250V/25A, for cable diameter 10-14 mm, coding color concrete gray, housing color black

Description	Type	Order No
Male connector	RST25i5S S1 ZR2SV BGO	96.052.4154.3
Technical data		
Rated voltage		250 V
Rated current (A)		25 A
Model		Male
Connection type		Screw connection
Number of poles		5
Cable diameter		10-14 mm
Certificates / Approvals		

Female connector, sealable



Device connector, standard M25, RST25i5, 5-pole, screw technology female connector, 250/400V, 25A, coding color concrete gray, nut color black

Description	Type	Order No
Female connector	RST25i5S B1 M01V GR0	96.051.5054.3
Technical data		
Rated voltage		250 V
Rated current (A)		25 A
Model		Female
Connection type		Screw connection
Number of poles		5
Thread for housing feed-through		M25
Certificates / Approvals		

Male connector, sealable



Device connector, standard M25, RST25i5, 5-pole, screw technology male connector, 250/400V, 25A, coding color concrete gray, nut color black

Description	Type	Order No
Male connector	RST25i5S S1 M01V BGO	96.052.5054.3
Technical data		
Rated voltage		250 V
Rated current (A)		25 A
Model		Male
Connection type		Screw connection
Number of poles		5
Thread for housing feed-through		M25
Certificates / 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 250 10SW total length: 1 m

Description	Type	Order No
Assembled cable	RST20I5KSBS 250 10SW	96.453.1080.1
Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		5
Cable cross-section (mm ²)		2.5
Design side 1		Plug
Design side 2		Socket
Cable end treatment		-
Cable type		Ölflex Classic 110 5G2.5
Cable diameter (mm)		10
Cable diameter (mm)		-
Stripping length (mm)		-
Cable length (m)		1.0
Approvals		⚡
Versions	Type	Order No
Cable length (m)	2.0 RST20I5KSBS 250 20SW	96.453.2080.1
	3.0 RST20I5KSBS 250 30SW	96.453.3080.1
	4.0 RST20I5KSBS 250 40SW	96.453.4080.1
	5.0 RST20I5KSBS 250 50SW	96.453.5080.1
	6.0 RST20I5KSBS 250 60SW	96.453.6080.1
	7.0 RST20I5KSBS 250 70SW	96.453.7080.1
	8.0 RST20I5KSBS 250 80SW	96.453.8080.1
	9.0 RST20I5KSBS 250 90SW	96.453.9080.1

Connection cable plug – 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- 250 10SW, total length: 1 m

Description	Type	Order No
Assembled cable	RST20I5KSB- 250 10SW	96.453.1083.1
Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		5
Cable cross-section (mm ²)		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
Cable diameter (mm)		35
Stripping length (mm)		9
Cable length (m)		1.0
Approvals		-
Versions	Type	Order No
Cable length (m)	2.0 RST20I5KSB- 250 20SW	96.453.2083.1
	3.0 RST20I5KSB- 250 30SW	96.453.3083.1
	4.0 RST20I5KSB- 250 40SW	96.453.4083.1
	5.0 RST20I5KSB- 250 50SW	96.453.5083.1
	6.0 RST20I5KSB- 250 60SW	96.453.6083.1
	7.0 RST20I5KSB- 250 70SW	96.453.7083.1
	8.0 RST20I5KSB- 250 80SW	96.453.8083.1
	9.0 RST20I5KSB- 250 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 250 10SW, total length: 1 m

Description	Type	Order No
Assembled cable	RST20I5KS-S 250 10SW	96.453.1084.1
Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		5
Cable cross-section (mm ²)		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
Cable diameter (mm)		35
Stripping length (mm)		9
Cable length (m)		1.0
Approvals		-
Versions	Type	Order No
Cable length (m)	2.0 RST20I5KS-S 250 20SW	96.453.2084.1
	3.0 RST20I5KS-S 250 30SW	96.453.3084.1
	4.0 RST20I5KS-S 250 40SW	96.453.4084.1
	5.0 RST20I5KS-S 250 50SW	96.453.5084.1
	6.0 RST20I5KS-S 250 60SW	96.453.6084.1
	7.0 RST20I5KS-S 250 70SW	96.453.7084.1
	8.0 RST20I5KS-S 250 80SW	96.453.8084.1
	9.0 RST20I5KS-S 250 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 2014KSBS 25OL 10BR01, total length: 1 m

Description	Type	Order No
Assembled cable	RST2014KSBS 25OL 10BR01	96.443.1082.4
Technical data		
Rated voltage (V)		50
Rated current (A)		20
Number of poles		4
Cable cross-section (mm ²)		2.5
Design side 1		Plug
Design side 2		Socket
Cable end treatment		-
Cable type		PVC 4X2.5
Cable diameter (mm)		9
Cable diameter (mm)		-
Stripping length (mm)		-
Cable length (m)		1.0
Approvals		-
Versions		
Cable length (m)	Type	Order No
2.0	RST2014KSBS 25OL 20BR01	96.443.2082.4
3.0	RST2014KSBS 25OL 30BR01	96.443.3082.4
4.0	RST2014KSBS 25OL 40BR01	96.443.4082.4
5.0	RST2014KSBS 25OL 50BR01	96.443.5082.4
6.0	RST2014KSBS 25OL 60BR01	96.443.6082.4
7.0	RST2014KSBS 25OL 70BR01	96.443.7082.4
8.0	RST2014KSBS 25OL 80BR01	96.443.8082.4
9.0	RST2014KSBS 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 2014KSB- 25OL 10BR01, total length: 1 m

Description	Type	Order No
Assembled cable	RST2014KSB- 25OL 10BR01	96.443.1087.4
Technical data		
Rated voltage (V)		50
Rated current (A)		20
Number of poles		4
Cable cross-section (mm ²)		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
Cable diameter (mm)		35
Stripping length (mm)		9
Cable length (m)		1.0
Approvals		-
Versions		
Cable length (m)	Type	Order No
2.0	RST2014KSB- 25OL 20BR01	96.443.2087.4
3.0	RST2014KSB- 25OL 30BR01	96.443.3087.4
4.0	RST2014KSB- 25OL 40BR01	96.443.4087.4
5.0	RST2014KSB- 25OL 50BR01	96.443.5087.4
6.0	RST2014KSB- 25OL 60BR01	96.443.6087.4
7.0	RST2014KSB- 25OL 70BR01	96.443.7087.4
8.0	RST2014KSB- 25OL 80BR01	96.443.8087.4
9.0	RST2014KSB- 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 2014KS-S 25OL 10BR01, total length: 1 m

Description	Type	Order No
Assembled cable	RST2014KS-S 25OL 10BR01	96.443.1088.4
Technical data		
Rated voltage (V)		50
Rated current (A)		20
Number of poles		4
Cable cross-section (mm ²)		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
Cable diameter (mm)		35
Stripping length (mm)		9
Cable length (m)		1.0
Approvals		-
Versions		
Cable length (m)	Type	Order No
2.0	RST2014KS-S 25OL 20BR01	96.443.2088.4
3.0	RST2014KS-S 25OL 30BR01	96.443.3088.4
4.0	RST2014KS-S 25OL 40BR01	96.443.4088.4
5.0	RST2014KS-S 25OL 50BR01	96.443.5088.4
6.0	RST2014KS-S 25OL 60BR01	96.443.6088.4
7.0	RST2014KS-S 25OL 70BR01	96.443.7088.4
8.0	RST2014KS-S 25OL 80BR01	96.443.8088.4
9.0	RST2014KS-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, IP66, IP67, IP68 (3 m 2 h)
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

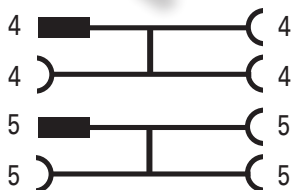


Description	Type	Order No
Distributor box	RST20i4B 3P1 F VGL SW01	96.040.0151.4
Technical data		
Rated voltage (V)		-
Rated voltage Auxiliary power (V)		24V
Rated current (A)		20
Number of poles		4
Connection type 1		Plug connection
Connection type 2		Plug connection
Color		black
Degree of protection		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 Catalog „*gesis*® RST® Pluggable Electrical Installation in highest protection (IP6X)“

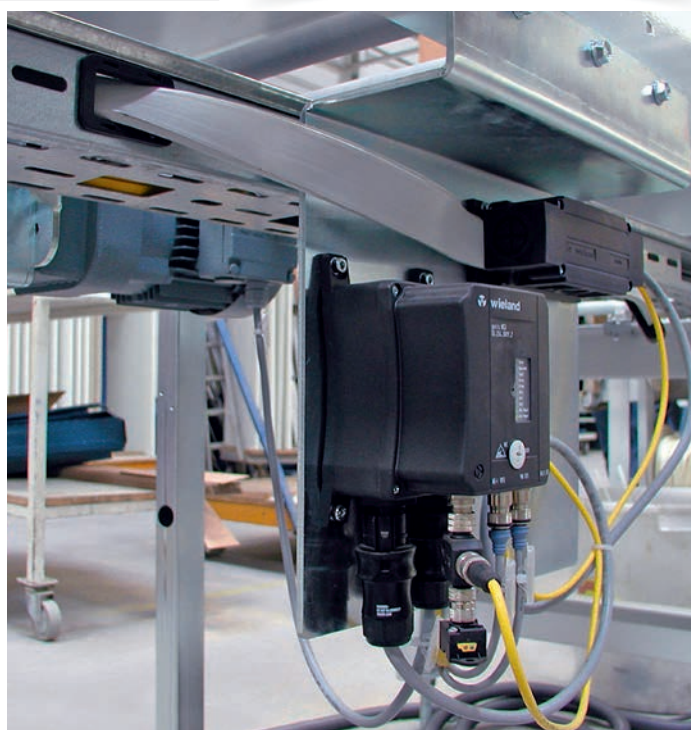
Order No. 0690.1

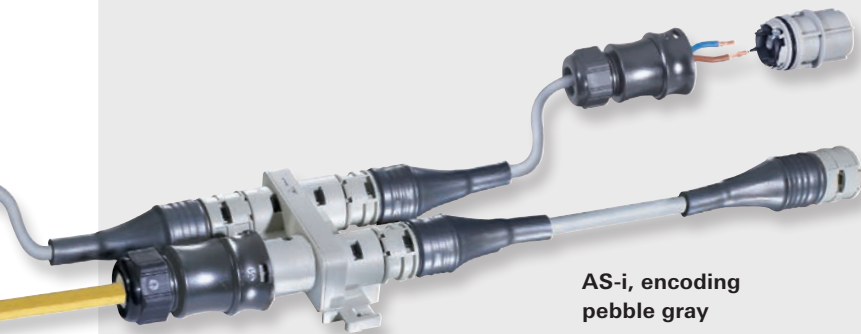


RST® – Applications

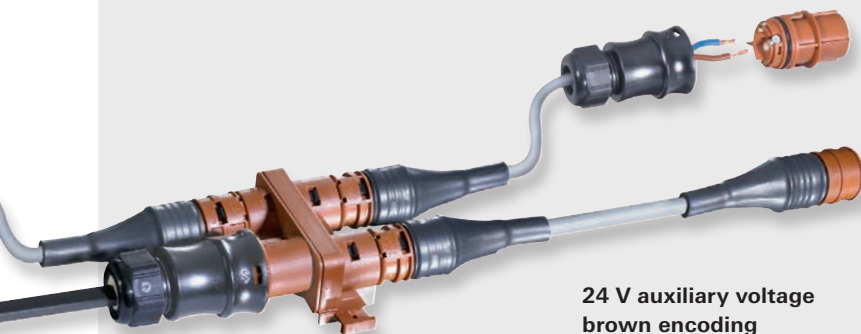


- Applications**
- Warehouse and logistics
 - Production facilities, production lines
 - Construction site power supply
 - Underground parking garages, greenhouses
 - Shipbuilding
 - Outdoor installations
 - Photovoltaic systems





AS-i, encoding
pebble gray



24 V auxiliary voltage
brown encoding

Technical data

- 50 V, 20 A
- IP66 / 68 (3 m; 2 h) / 69
- Temperatures of
-40 to +100° C
- Screw connection
0.5 – 4.0 mm²

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.

Rapid installation system **RST®** for the AS Interface

As a complete installation system, **RST®** 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.

RST® 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

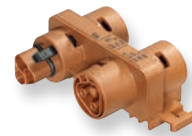

- Flexible
- Economical
- Easy and clearly designed
- Fewer installation faults
- Mechanically coded
- High degree of protection



Pluggable connector systems in IP66/68 (3 m; 2 h)/69

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 mm ²		
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 96.021.4051.4	Order No 96.021.5051.4	Order No 96.222.x092.4	Order No 96.222.x097.4	Order No 96.222.x098.4
Plug part 	Plug part 			
Order No 96.022.4051.4	Order No 96.022.5051.4			

Pluggable connector for AS-i profile cable	Distributor 1E/3A	Assembled cables 2 x 2,5 mm ²		
With screw connection, seal, and strain relief, for AS-i profile cable	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 96.021.4951.4	Order No 96.020.0151.4	Order No 96.223.x092.4	Order No 96.223.x097.4	Order No 96.223.x098.4
Plug part 	Caps suitable for any encoding  			
Order No 96.022.4951.4	Order No 99.414.6205.2	Order No 99.416.6205.2		
	With loss-protection for socket parts not in use			
	With loss-protection for plug parts not in use			

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

Pluggable connector systems in IP66/68 (3 m; 2 h)/69

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 mm ²		
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	Order No 96.222.x092.8	Order No 96.222.x097.8	Order No 96.222.x098.8
Plug part 	Plug part 			
Order No 96.022.4050.8	Order No 96.022.5050.8			

Pluggable connector for AS-i profile cable	Distributor 1E/3A	Assembled cables 2 x 2,5 mm ²		
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	Order No 96.223.x092.8	Order No 96.223.x097.8	Order No 96.223.x098.8
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		

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





Technical consultation

and general information

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