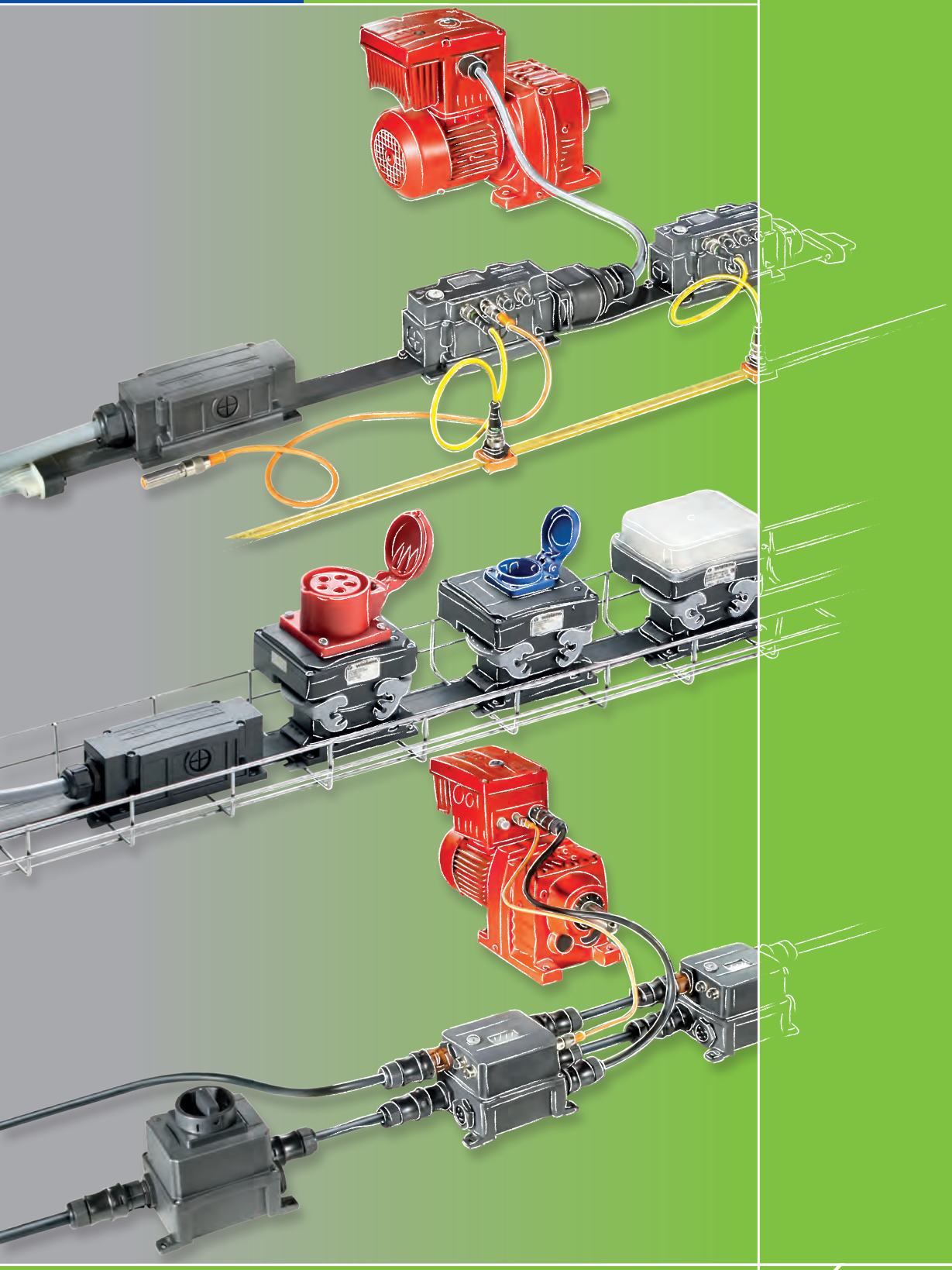
podis®

wieland



podis®

Decentralized Automation
Catalog 2015

▲ Sales Center in Bamberg

▲ Company headquarters in Bamberg

▲ STOCKO main plant in Wuppertal

wieland group

automation

building

electronics

ACTIVE WORLDWIDE

The Wieland Group employs more than 2,000 people all around the globe. With currently 15 locations and subsidiaries, and sales partners in more than 70 countries, Wieland Holding is present in nearly all important key markets worldwide. Always with a clear commitment to the German location where most of the products are still manufactured.

The group makes us strong

Wieland Holding is based in Bamberg, Bavaria, and comprises two independently acting subsidiaries: Wieland Electric and STOCKO Contact.

Groundbreaking innovations made Wieland Electric one of the leading suppliers of electrical connection technology. This company, founded in Bamberg in 1910, is the largest subsidiary of Wieland Holding.

STOCKO Contact is based in Wuppertal and joined the Wieland Group in 2001. Stocko has also more than 100 years of company history to its credit and is one of the largest manufacturers of connector systems and crimp contacts.

Established in industries

Control cabinet engineering, industrial automation, building system technology – our large product portfolio provides solutions for all kinds of applications.

From innovative interface and network technology to terminal blocks to "*safety first*" – with modular system solutions and safety components. With Wieland products in your control cabinet, you are always on the safe side.

Energy bus systems for distributed automation or indoor and outdoor field bus components – Wieland technology can be found everywhere, and in all kinds of applications.

In building system technology, Wieland Electric is the world market leader in pluggable eletrical installation.

There are good reasons why our system solutions can be found in the most spectacular building projects worldwide. When it comes to electronic networking, Wieland leads the way to the "smart home".

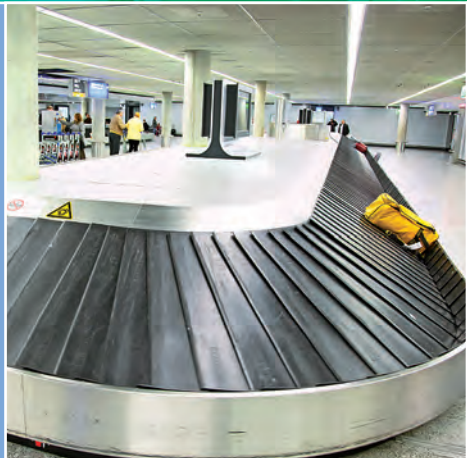
Welcome Future

Wieland Electric is 100 years young, and full of innovative energy. And our commitment for the future is not only to find constantly new system solutions for our customers but also social responsibility.

Environmentally friendly high-tech products, manufactured to the latest production standards, an audited environmental management system and substantial investments in our locations are all part to this concept.

Global commitment and sustainable regional action – Wieland Electric is fit for the future: Contacts are green.

contacts are green



| CONTENTS |

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.

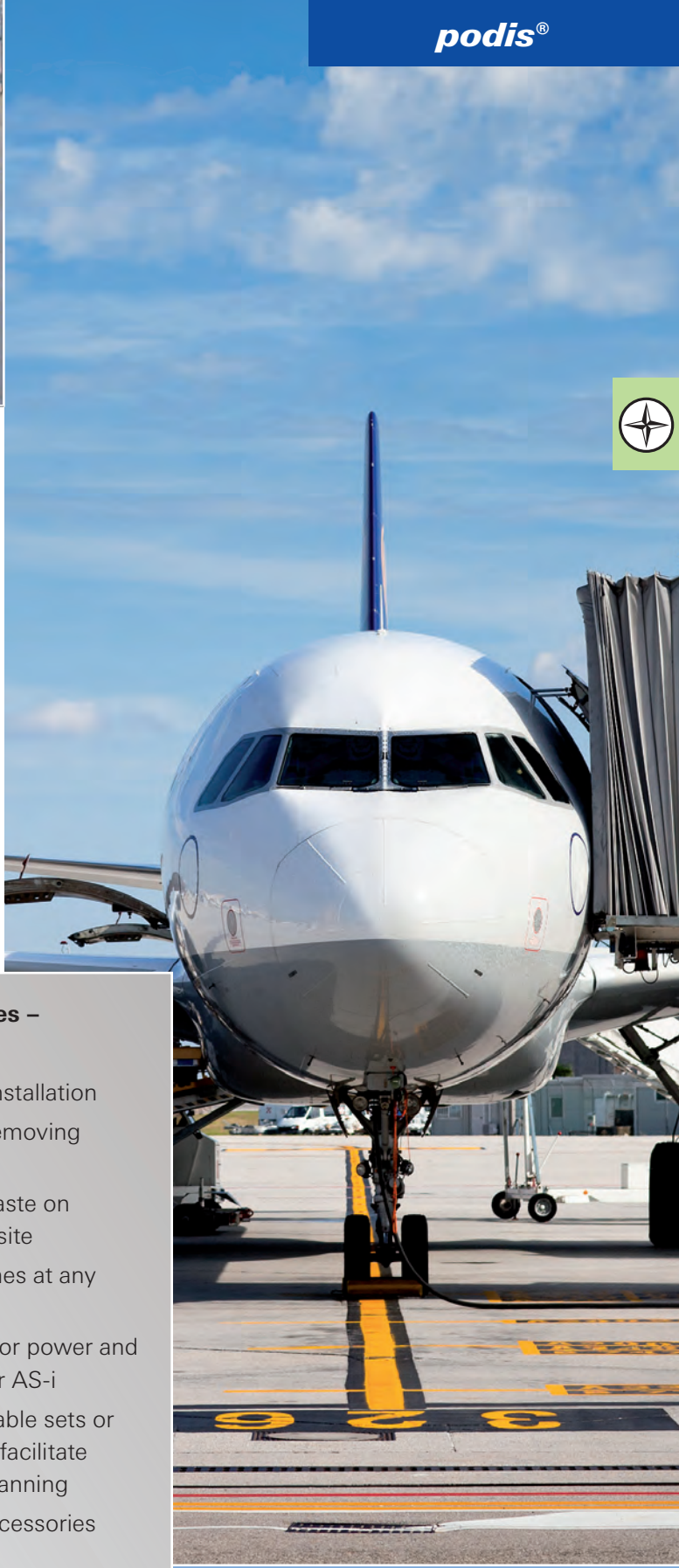
The connection is faultless without stripping insulation through insulation-penetrating contact.

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
- 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

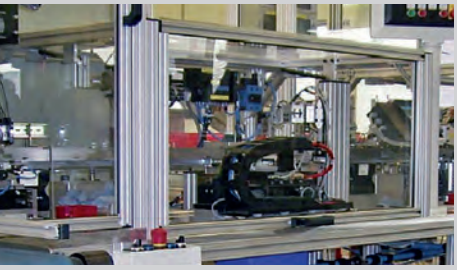
As system supplier, we take a comprehensive and goal-oriented approach to our customers' wishes and requirements. Each new application presents a challenge to the system engineers.
We support you in selecting the right solution.

Order no:
95.502.1010.0

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.

13



Mechanical engineering

- Packaging machines
- Construction machinery
- Robots
- Prototype construction

14

System engineering

- Assembly and production lines
- Food production
- Galvanic equipment
- Industrial furnaces, furnace lines

15

Wind energy systems

- Tower lighting
- Maintenance sockets
- Emergency lighting
- Cranes
- Supply tunnels

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

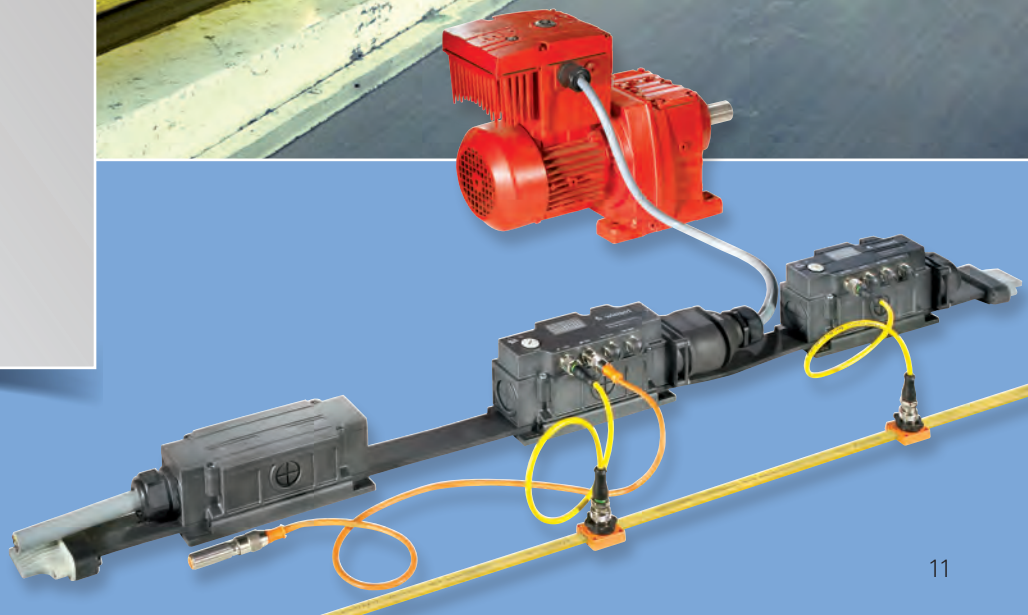
- Skid conveyors
- Floor conveyors
- Roller conveyors
- Carrying chain conveyors
- “Power and Free” systems

Solution

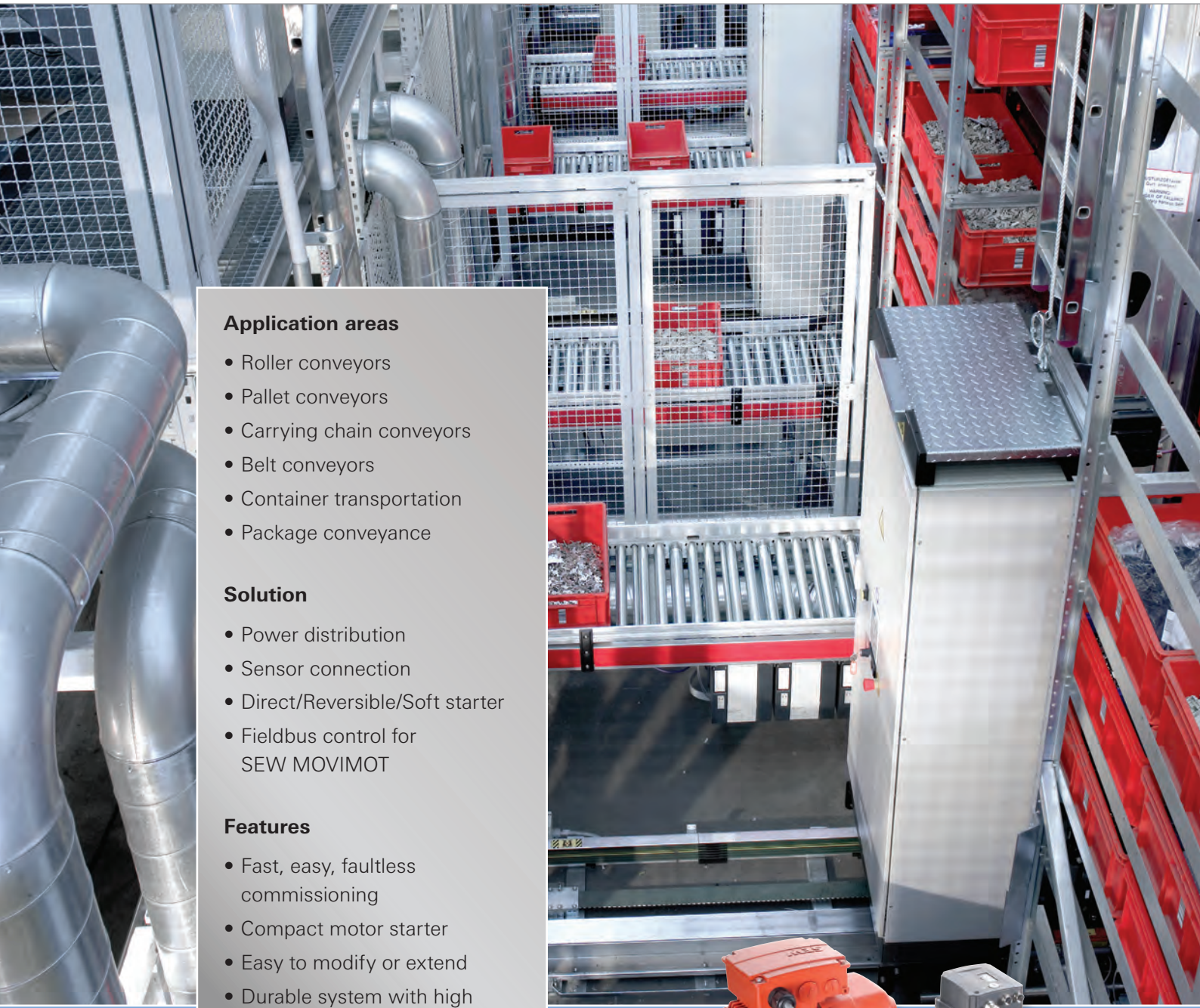
- Power distribution
- Field devices for SEW MOVIMOT
- Sensor connection

Features

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



Solutions for Intra logistics



Application areas

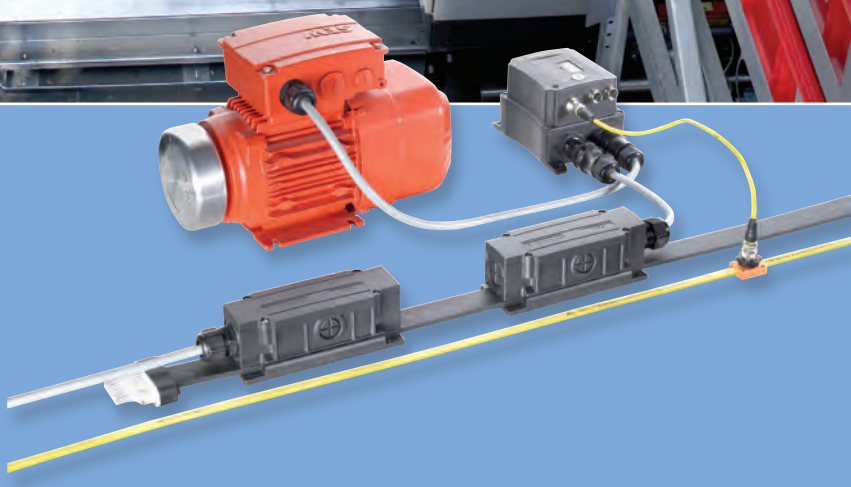
- Roller conveyors
- Pallet conveyors
- Carrying chain conveyors
- Belt conveyors
- Container transportation
- Package conveyance

Solution

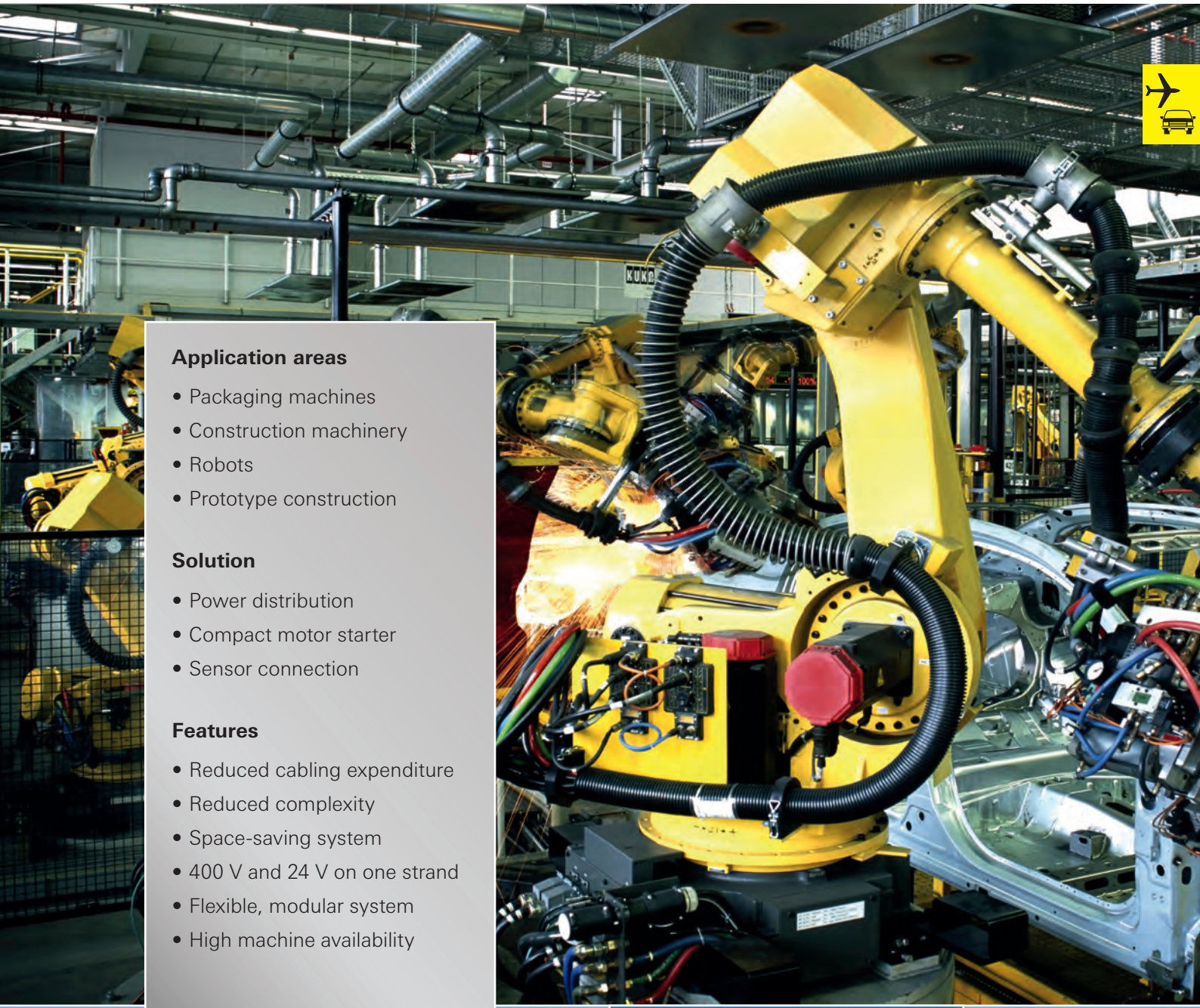
- Power distribution
- Sensor connection
- Direct/Reversible/Soft starter
- Fieldbus control for SEW MOVIMOT

Features

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



Solutions for machine construction



Application areas

- Packaging machines
- Construction machinery
- Robots
- Prototype construction

Solution

- Power distribution
- Compact motor starter
- Sensor connection

Features

- Reduced cabling expenditure
- Reduced complexity
- Space-saving system
- 400 V and 24 V on one strand
- Flexible, modular system
- High machine availability

Solutions for system engineering

Application area

- Assembly and production lines
- Food production
- Galvanic equipment
- Industrial furnaces, furnace lines

Solution

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

Features

- Fast, simple, faultless installation
- Direct, reversing and soft starter
- High protection class IP65

Solutions for windpower

Application areas

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

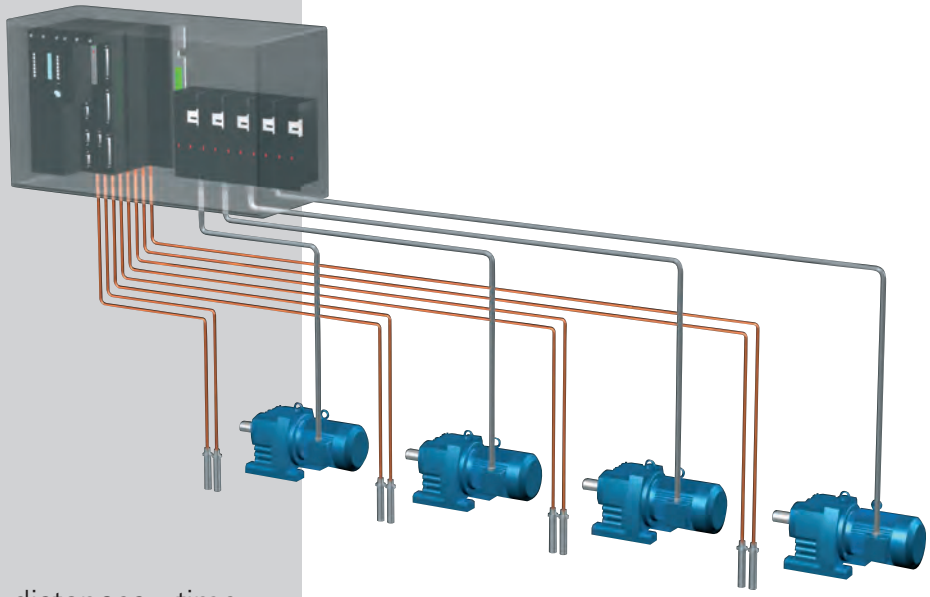
Solution

- 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

Central installation – previously current practice



Central

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

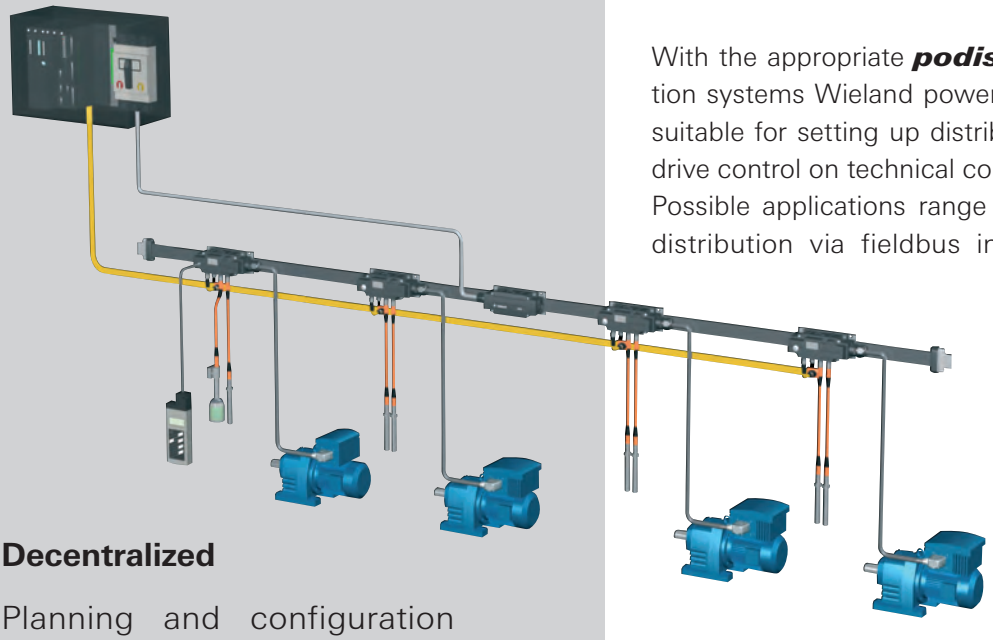
Features of central installation:

- 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 co ntrollers, 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.

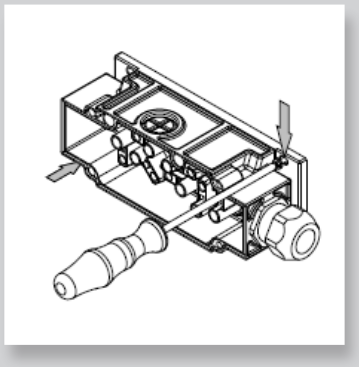
Advantages of decentralized installation:

- 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

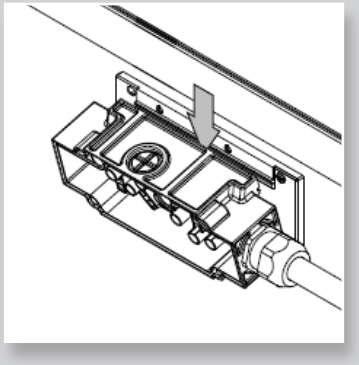
With the appropriate ***podis®*/*gesis®*** installation systems Wieland power bus concepts are suitable for setting up distributed solutions for drive control on technical conveyor systems. Possible applications range from pure power-distribution via fieldbus interface to motor starters for switching 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

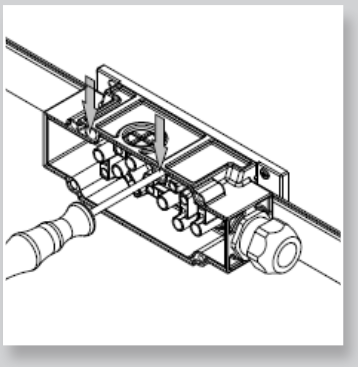
podis® IDC
The unique connection principle



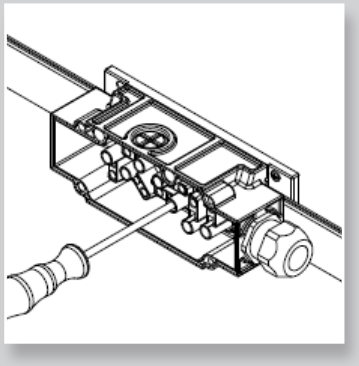
Wall mounting
Open the housing



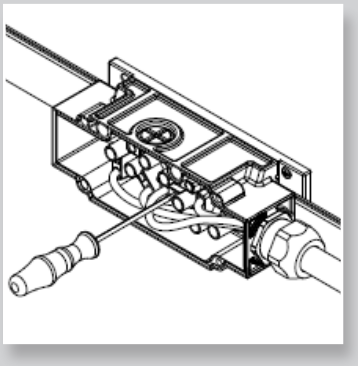
Insert coded flat cable



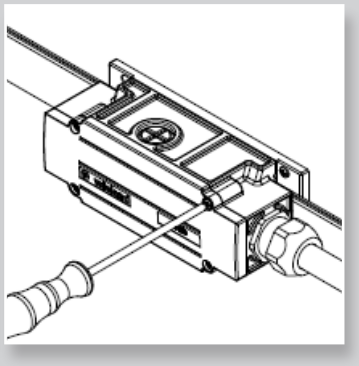
Close the top piece
Cable is sealed



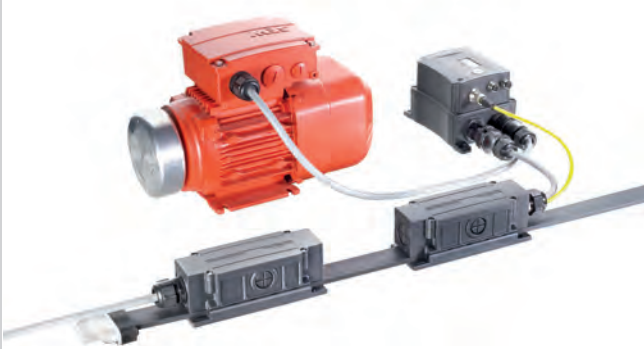
Screw in penetrating screws



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

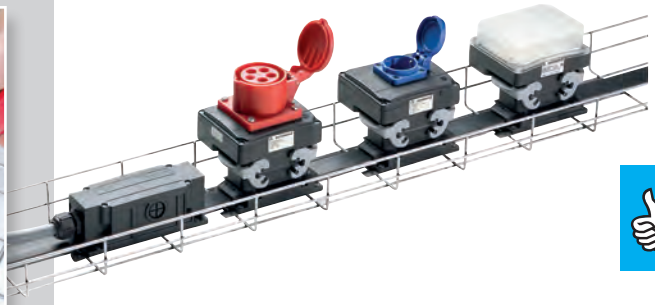
Attach to mesh cable tray

Insert flat cable

Easy and fast contacting

Insert plug

or directly to the motor starter – finished!



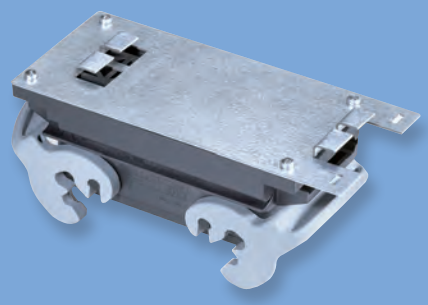
Quick installation systems

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.

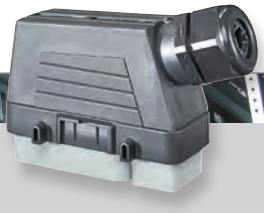
Installation in cable duct

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.

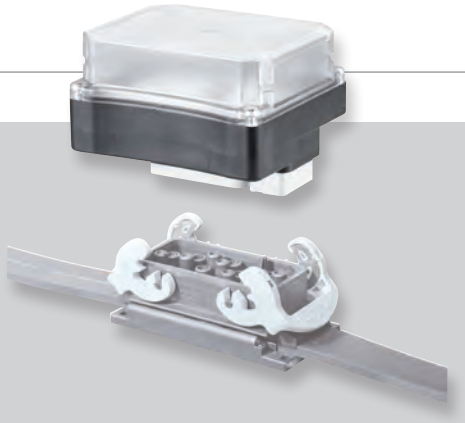


podis®CON
Power bus components

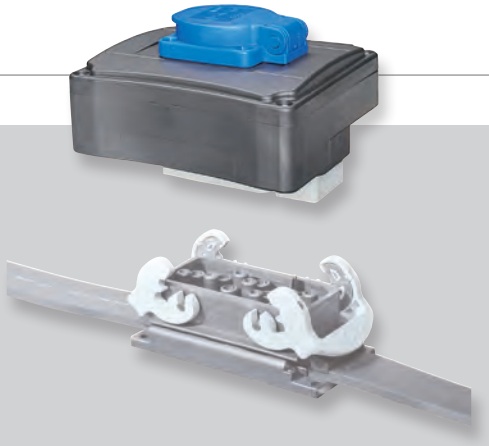


podis®CON
connector

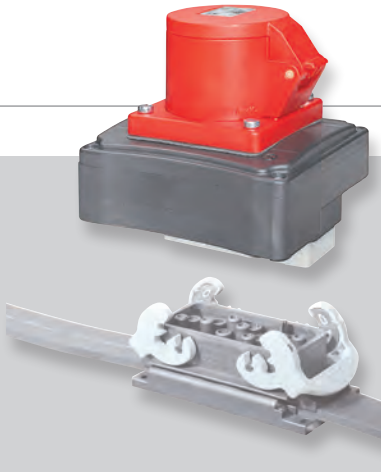
podis®CON
pluggable feeder



podis®LED
LED luminaires



podis®CON
Schuko power receptacle



podis®CON
Heavy duty power receptacle

podis®CON is 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.

Flat cables

Flat cable

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

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

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

Flat cable

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

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

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

Flat cable

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

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

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

Cable end piece

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

Description	Order No
Cable end piece	Z5.562.7553.1

Feed-through flat cable

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

Description	Order No
Feed-through flat cable	Z5.563.6553.1

For technical data, see Page 62; for accessories, see Page 63 ff.

Connection modules

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

Connection module 2 pole

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

Description	Type	Order No
Connection module	**FCS 2,5 2 SI SA SW**	75.016.2053.1

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

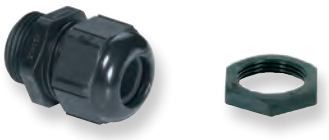
Distribution module 7 pole

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

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

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

Accessories



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

Plug-in outgoing feeders

Flat cable outgoing feeder – plug-in, 7 pole

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

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

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Penetration connection
Connection type 2	Plug connection
min. rated cross-section, fine-stranded (mm²)	-
max. rated cross-section, fine-stranded (mm²)	-
Color	black
Degree of protection	IP65
Length (mm)	120
Width (mm)	60
Height (mm)	55
Approvals	cULus

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 SO0**	75.015.0151.0

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	4
Color	black
Degree of protection	IP65
Length (mm)	94
Width (mm)	57
Height (mm)	79
Approvals	cULus

Plug complete 7 pole

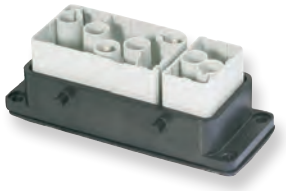
podis CON plug FCS 4.0 7 ST SA; 7-pole, pins, 20 A, 277/480 V 4kV/3(VDE); 600 V (UL, CSA), with threaded connector M25 for threaded joint; screw connection

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

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	4
Color	black
Degree of protection	IP65
Length (mm)	94
Width (mm)	57
Height (mm)	79
Approvals	cULus

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



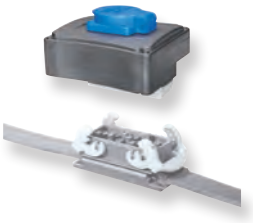
Description	Type	Order No
Mounting case	**FCS 4 7 ST SA SU**	75.015.1153.1

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 (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	4
Color	black
Degree of protection	IP65
Length (mm)	113
Width (mm)	57
Height (mm)	39
Approvals	cULus

Service sockets on the power bus

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

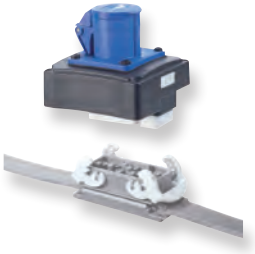


Description	Type	Order No
Socket	**FCS-CEE7/4 230V16A3P**	83.315.0001.1

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

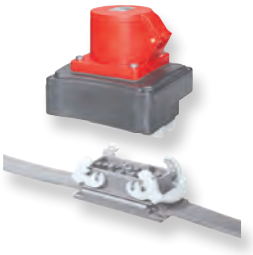


Description	Type	Order No
Socket	**FCS-CEE7/4 230V16A3P**	83.315.0001.2

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

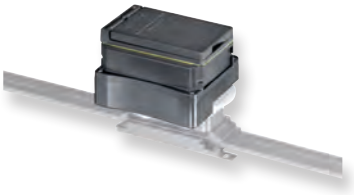


Description	Type	Order No
Socket	**FCS-CEE6H 400V16A5P**	83.315.0002.1

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	

Pre-assembled connection and interconnecting cables

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 (mm²)			2.5
Design side 1			Plug
Design side 2			open end
Cable end treatment			ultrasonically compressed wire ends
Cable type			Ölflex Classic 110
Cable diameter	(mm)		11.1
Stripping length	(mm)		130
Wire strip length	(mm)		7
Cable length	(m)		1.0
Approvals			-
Versions		Type	Order No
Cable length (m)	2.0	FCS 2,5 7 STSA - 20	83.301.2020.1
	3.0	FCS 2,5 7 STSA - 30	83.301.3020.1
	4.0	FCS 2,5 7 STSA - 40	83.301.4020.1
	5.0	FCS 2,5 7 STSA - 50	83.301.5020.1
	6.0	FCS 2,5 7 STSA - 60	83.301.6020.1
	7.0	FCS 2,5 7 STSA - 70	83.301.7020.1
	8.0	FCS 2,5 7 STSA - 80	83.301.8020.1
	9.0	FCS 2,5 7 STSA - 90	83.301.9020.1

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; insluation 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

Description		Type	Order No
Interconnecting cable		**FCS 2,5 7 STSA - SIFK10**	83.302.1025.1
Technical data			
Rated voltage (V)			400
Rated current (A)			20
Number of poles			7
Cable cross-section (mm²)			2.5
Design side 1			Plug
Design side 2			Connection module
Cable end treatment			-
Cable type			Ölflex Classic 110
Cable diameter	(mm)		11.1
Stripping length	(mm)		-
Wire strip length	(mm)		-
Cable length	(m)		1.0
Approvals			-
Versions		Type	Order No
Cable length (m)	2.0	FCS 2,5 7 STSA SIFK - 20	83.302.2025.1
	3.0	FCS 2,5 7 STSA SIFK - 30	83.302.3025.1
	4.0	FCS 2,5 7 STSA SIFK - 40	83.302.4025.1
	5.0	FCS 2,5 7 STSA SIFK - 50	83.302.5025.1
	6.0	FCS 2,5 7 STSA SIFK - 60	83.302.6025.1
	7.0	FCS 2,5 7 STSA SIFK - 70	83.302.7025.1
	8.0	FCS 2,5 7 STSA SIFK - 80	83.302.8025.1
	9.0	FCS 2,5 7 STSA SIFK - 90	83.302.9025.1

Pre-assembled connection and interconnecting cables

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;

Description	Type	Order No
Interconnecting cable	**FCS 4 7 SIFK SIFK 10**	83.303.1039.1
Technical data		
Rated voltage (V)		500
Rated current (A)		20
Number of poles		7
Cable cross-section (mm²)		4
Design side 1		Connection module
Design side 2		Connection module
Cable end treatment		-
Cable type		Ölflex Classic 110
Cable diameter (mm)		13.4
Stripping length (mm)		-
Wire strip length (mm)		-
Cable length (m)		1.0
Approvals		-

Versions		Type	Order No
Cable length (m)	2.0	FCS 2,5 7 SIFK SIFK - 20	83.303.2039.1
	3.0	FCS 2,5 7 SIFK SIFK - 30	83.303.3039.1
	4.0	FCS 2,5 7 SIFK SIFK - 40	83.303.4039.1
	5.0	FCS 2,5 7 SIFK SIFK - 50	83.303.5039.1
	6.0	FCS 2,5 7 SIFK SIFK - 60	83.303.6039.1
	7.0	FCS 2,5 7 SIFK SIFK - 70	83.303.7039.1
	8.0	FCS 2,5 7 SIFK SIFK - 80	83.303.8039.1
	9.0	FCS 2,5 7 SIFK SIFK - 90	83.303.9039.1

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; cable

Description	Type	Order No
Connection cable	**FCS 4 7 SIFK - 10**	83.304.1030.1
Technical data		
Rated voltage (V)		500
Rated current (A)		20
Number of poles		7
Cable cross-section (mm²)		4
Design side 1		Connection module
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		Ölflex Classic 110
Cable diameter (mm)		13.4
Stripping length (mm)		130
Wire strip length (mm)		7
Cable length (m)		1.0
Approvals		-

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

Connection cable
connection module with
repair switch – free end

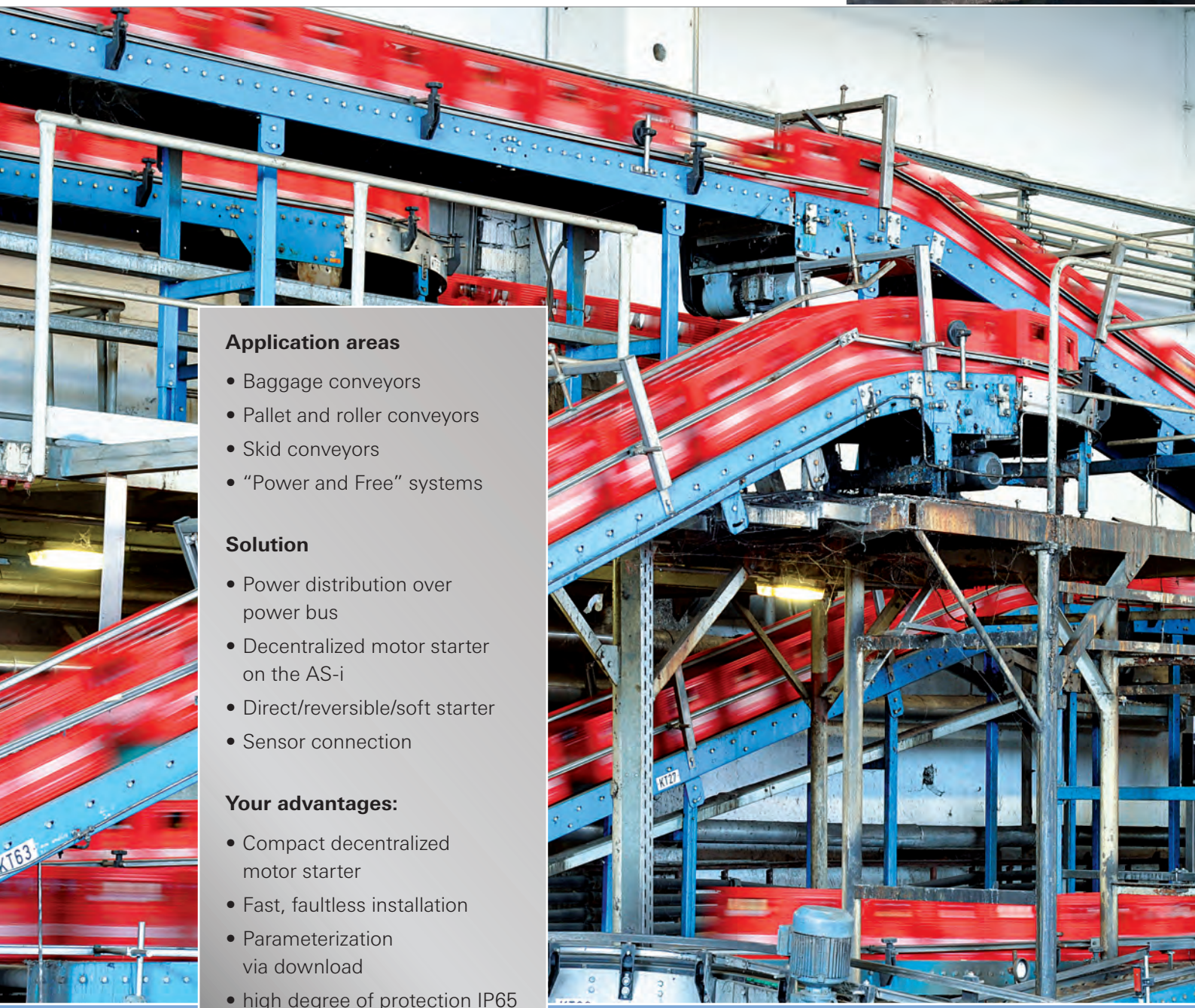
podis CON connection module FCS 4 7 SIFK REP 10; with repair switch assembled with round cable Oilflex Classic 110; 7 x 4 mm², open cable end; stripping length 130 mm; insulation removal length 7 mm, ultrasonically compressed; cable length 1000 mm

Description	Type	Order No
Connection cable	**FCS 4 7 SIFK REP 10**	83.305.1030.1
Technical data		
Rated voltage (V)		500
Rated current (A)		20
Number of poles		7
Cable cross-section (mm²)		4
Design side 1		Connection module
Design side 2		open end
Cable end treatment		ultrasonically compressed wire ends
Cable type		Ölflex Classic 110
Cable diameter (mm)		13.4
Stripping length (mm)		130
Wire strip length (mm)		7
Cable length (m)		1.0
Approvals		-

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

More assemblies on request, Accessories see page 63 and following.

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

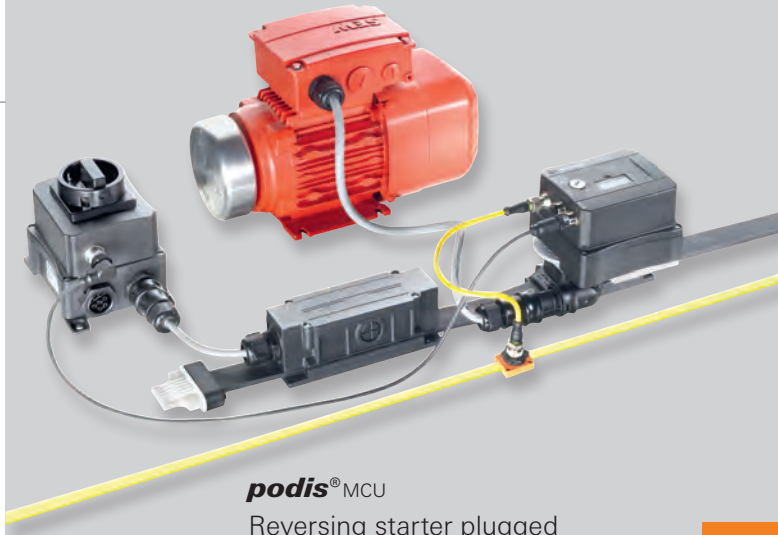
Your advantages:

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

podis® –
The Motor starter on the power bus

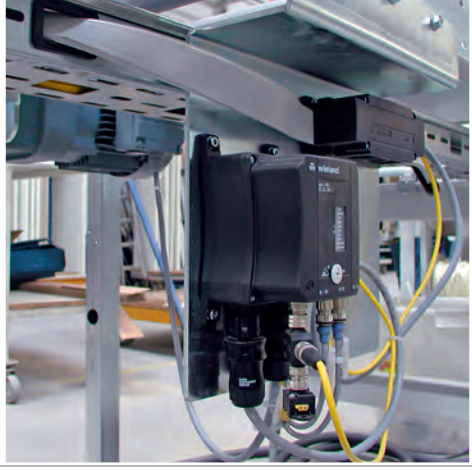
The **podis®** motor starters functionally belong to the family of active field distributors for the creation of distributed drive controls in conveyor facilities. In an extremely compact housing, the motor starters combine the function of an electronic motor starter with AS-i control and the connection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



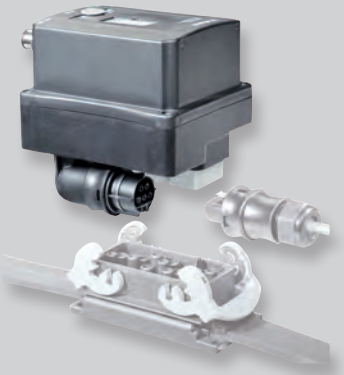
podis® MCU
Reversing starter plugged directly on the power bus, with maintenance switch

gesis® MCU
Reversing starter, remote

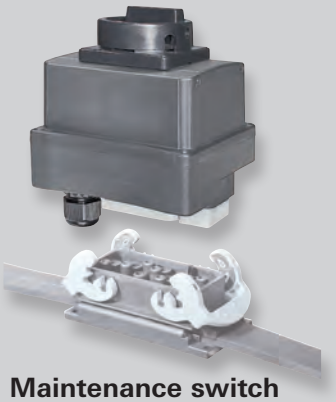


podis® –
Motor starter on the power bus

Motor starter, remote



Motor starter, direct plug-in



Maintenance switch

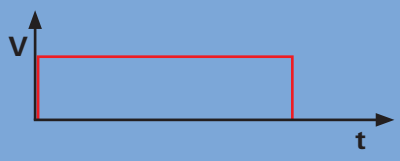
The ***podis***®/***gesis***® motor starters for decentralized applications close to motors are based on the ***podis***® power bus solution and can be used in harsh industrial environments.

Motor starters: In an especially compact housing, the ***podis***®MCU/***gesis***®MCU motor starters combine the function of an electronic motor starter with AS-i control, as well as the connection of up to three sensors. The motor starters are used in applications where three-phase standard motors of up to 1.5 kW are started with either one or two directions of rotation.

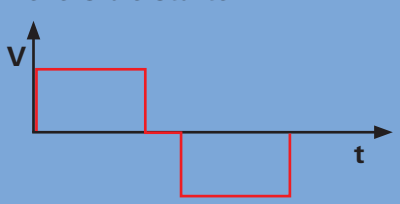
Soft starters: The new ***podis***®MSS/***gesis***®MSS electronic motor soft starters are used for soft starting and stopping of three-phase asynchronous motors. These soft starters start and stop the drive softly so that light materials that are being transported do not slip when the motor is switched on, and in order to protect the drive mechanically. The ramp-up time, the rampdown time and the breakaway torque can be adjusted continuously.

Maintenance switches: In order to achieve secure isolation of the drives in the event of repair or maintenance, "locally-placed" maintenance switches can disconnect individual conveyor lines or consumers from the mains without the complete system having to be shut down.

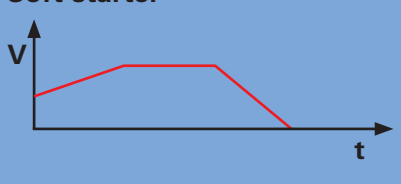
Direct starter



Reversible starter



Soft starter



Record-breaking – installation and commissioning time

Fast installation: With the new ***podis***®/***gesis***® motor starters, installation can be carried out up to 70 % faster than before.

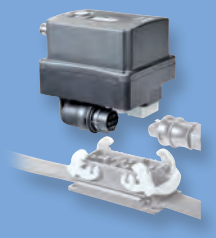
Space-saving design:
The ***podis***® motor starters are compact, and are simply mounted onto the flexible ***podis***® flat cable and terminated via two fast-closing manual locking levers. No more complicated and space-consuming mounting on separate mounting plates, thus saving space and simplifying project planning. Alternatively, the ***gesis***® motor starter can be mounted remotely on a mounting plate.

Easy installation in or on the wiring duct:
The compact design enables optimum ntegration into standard cable management systems. With the ***podis***® motor starter, ingoing and outgoing cables run behind the motor starter in the wiring duct, making side-by-side positioning possible. The remote ***gesis***® motor starter is mounted either at the motor on a separate mounting plate, or directly onto the cable management system.

Intelligent motor control:
The ***podis***®/***gesis***® motor starters can be operated as direct, reversing or soft starters of three-phase asynchronous motors up to 1.5 kW (2.01 hp). After the start-up phase, a switchover from the semiconductors to the internal mechanical bypass relays takes place.

Easy operation and optimum diagnostics:
Easy configuration via AS-Interface. When a motor starter is replaced, the settings are saved and can be automatically transferred rom the controller to the new motor starter. LED displays for status and error messages make fast on-site troubleshooting possible in the event of a fault, thus reducing expensive downtimes.

- **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 busr
- **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

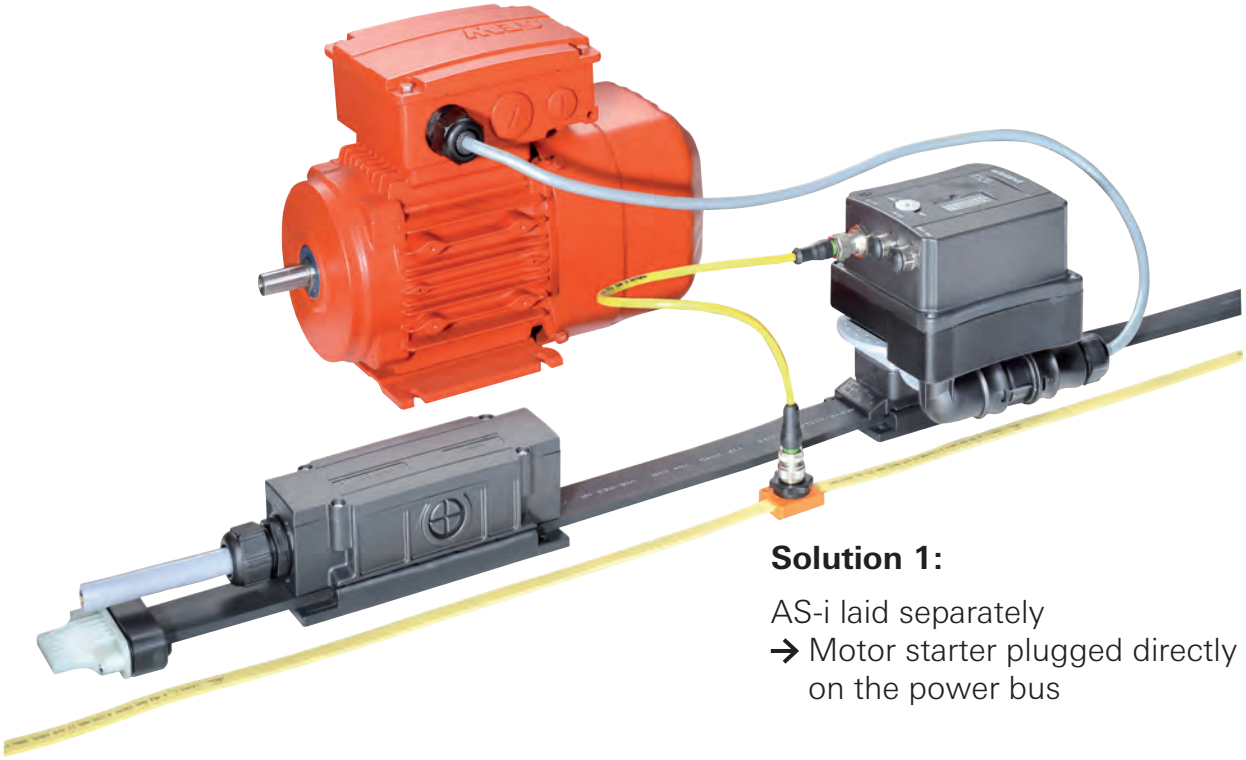


1 Plug together
Power, AS-i, and motor cable connection

2 Configure
Adressing via handheld, configuration via parameter download from the AS-i Master

3 … and start

Direct/reversing starter, direct plug-in

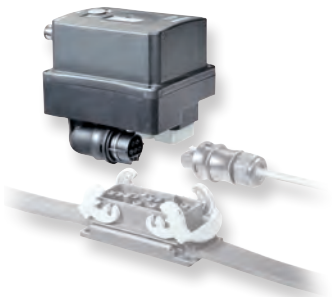


Solution 1:

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

podisMCU FA C 3I/W1.5
Direct/reversing starter, direct plug-in

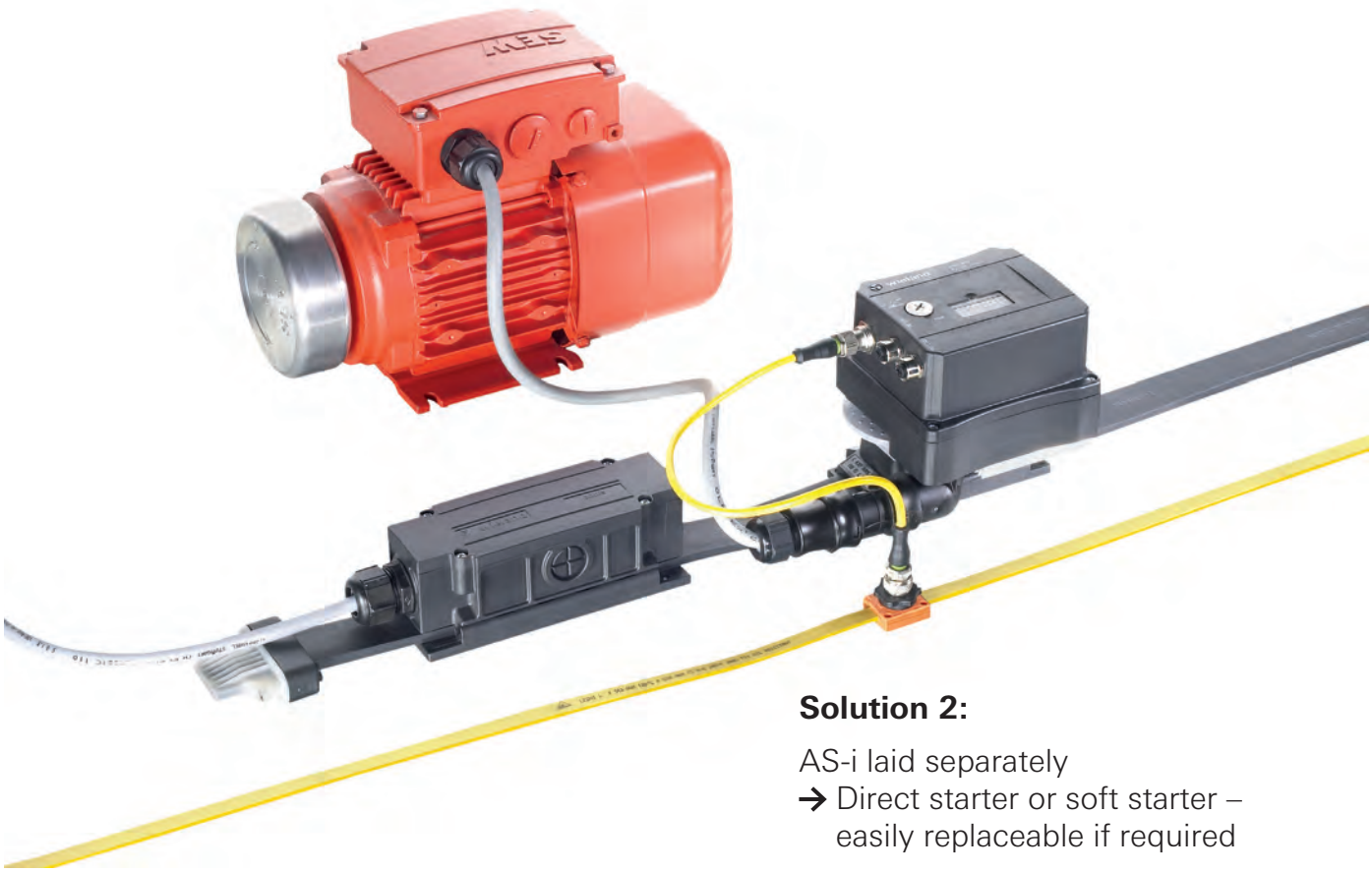
podisMCU FA C 3I/W1,5; FA C 3I/W1.5; reversing starter for three-phase asynchronous motors with electronic motor protection of 0.09-1.5 kW / 400 VAC; standard AS-i slave; AS-i specification 3.0 for 31 participants; auxiliary power from AS-i; 3 external digital initiator inputs via two M12 sockets; power (400 V) plug-in feed via **podis** outgoing flat 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
podisMCU	**FA C 3I/W1,5**	83.222.0009.5

Technical data	
Supply voltage of AC 50 Hz (V)	400
Supply voltage - voltage type	AC
Rated operating current of the motor (A)	4,0
Nominal power of the motor (min.- max.) (kW)	0.09 - 1.5
Frequency range (Hz)	50 - 60
Number of inputs	3
Number of motor outputs	1
AS-i specification	V3.0
Slave type	Standard slave
Current consumption of AS-i (mA)	max. 200
Motor current parameterization available	yes
Brake activation	no
Motor protection via thermistor	no
Motor protection via thermal motor model	yes
Switching rate	max. 1000/h
Conductor connection power feed-in	Plug connection podisCON
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

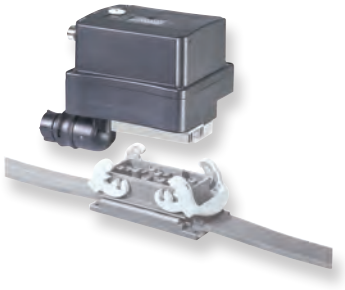


Solution 2:

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

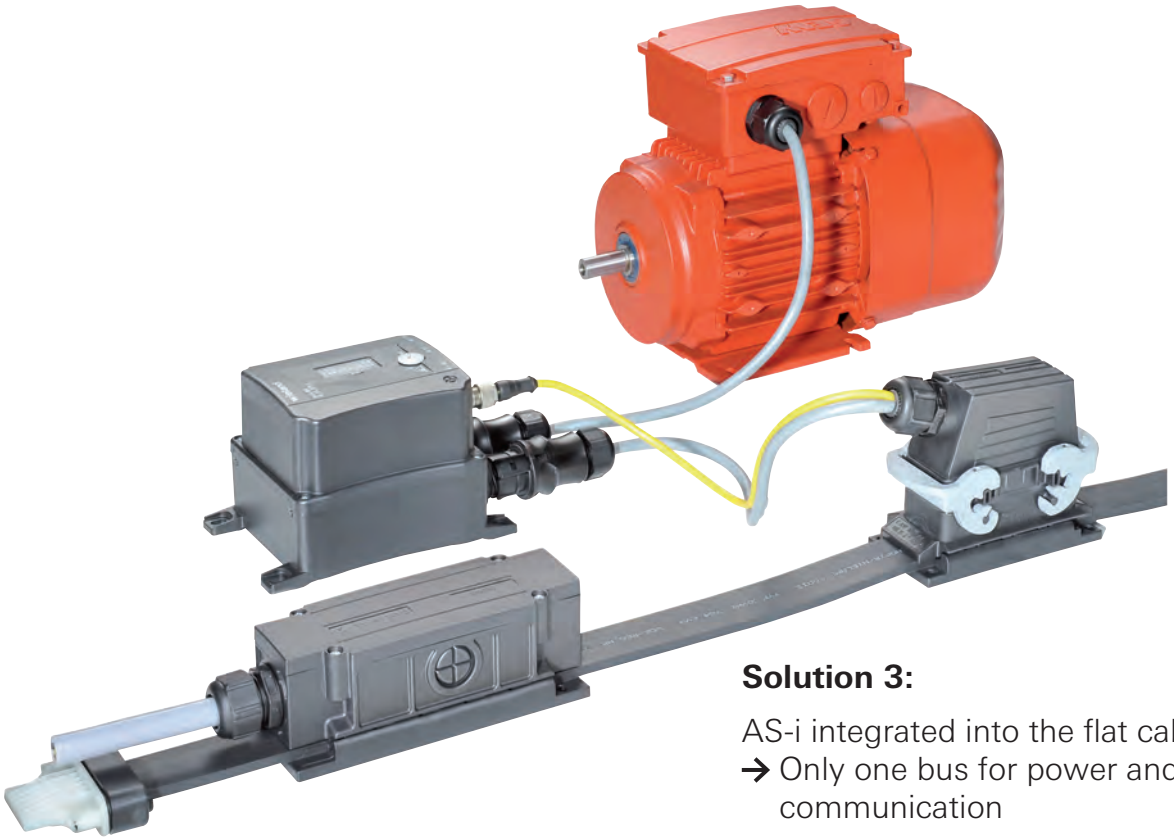
podisMSS FA C 3I/W1,5 soft starter direct plug-in

podisMSS 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 podisCON flat 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
podisMSS	**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		V3.0
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 podisCON
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:

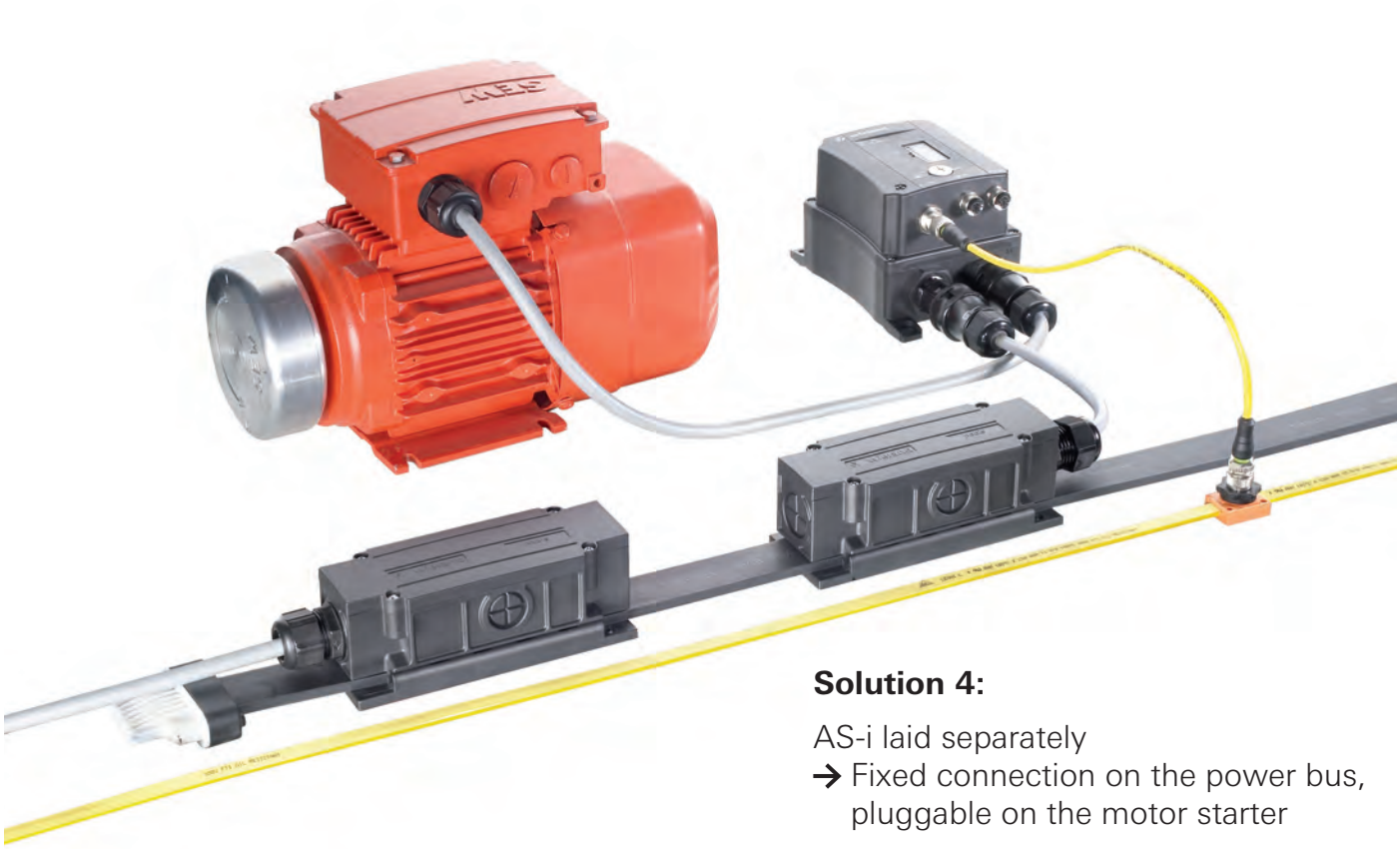
AS-i integrated into the flat cable
→ Only one bus for power and communication

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		V3.0
Slave type		Standard slave
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 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:

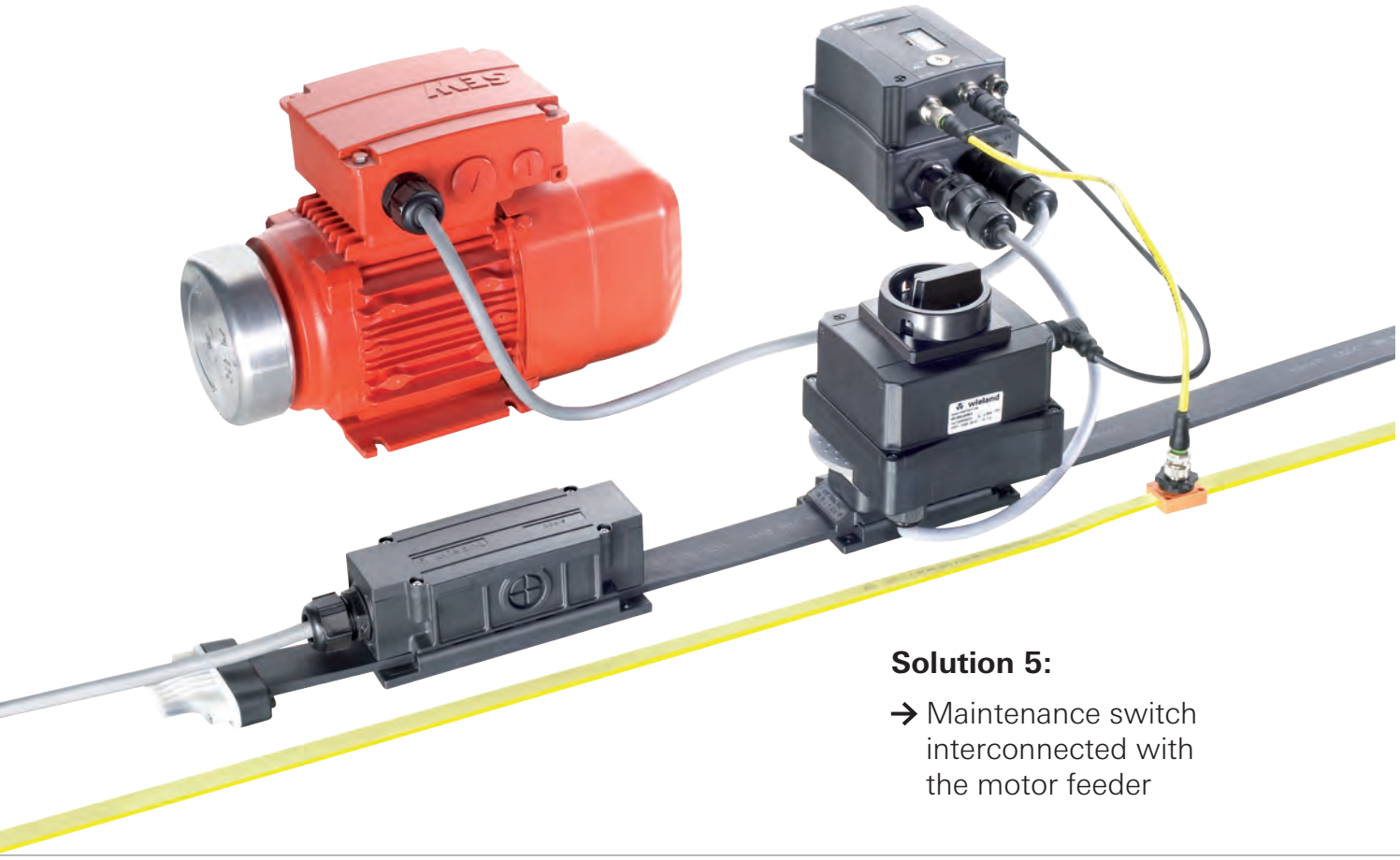
AS-i laid separately
→ Fixed connection on the power bus, pluggable on the motor starter

gesis MSS PA V 3I/W1,5
Soft starter direct plug-in

gesis MSS PA V 3I/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 3I/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		V3.0
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 Iu = 25 A; switching capacity according to AC23A/B = 11 kW / 400 V; according to AC3 = 7.5 kW / 400 V

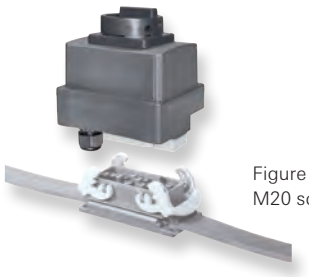
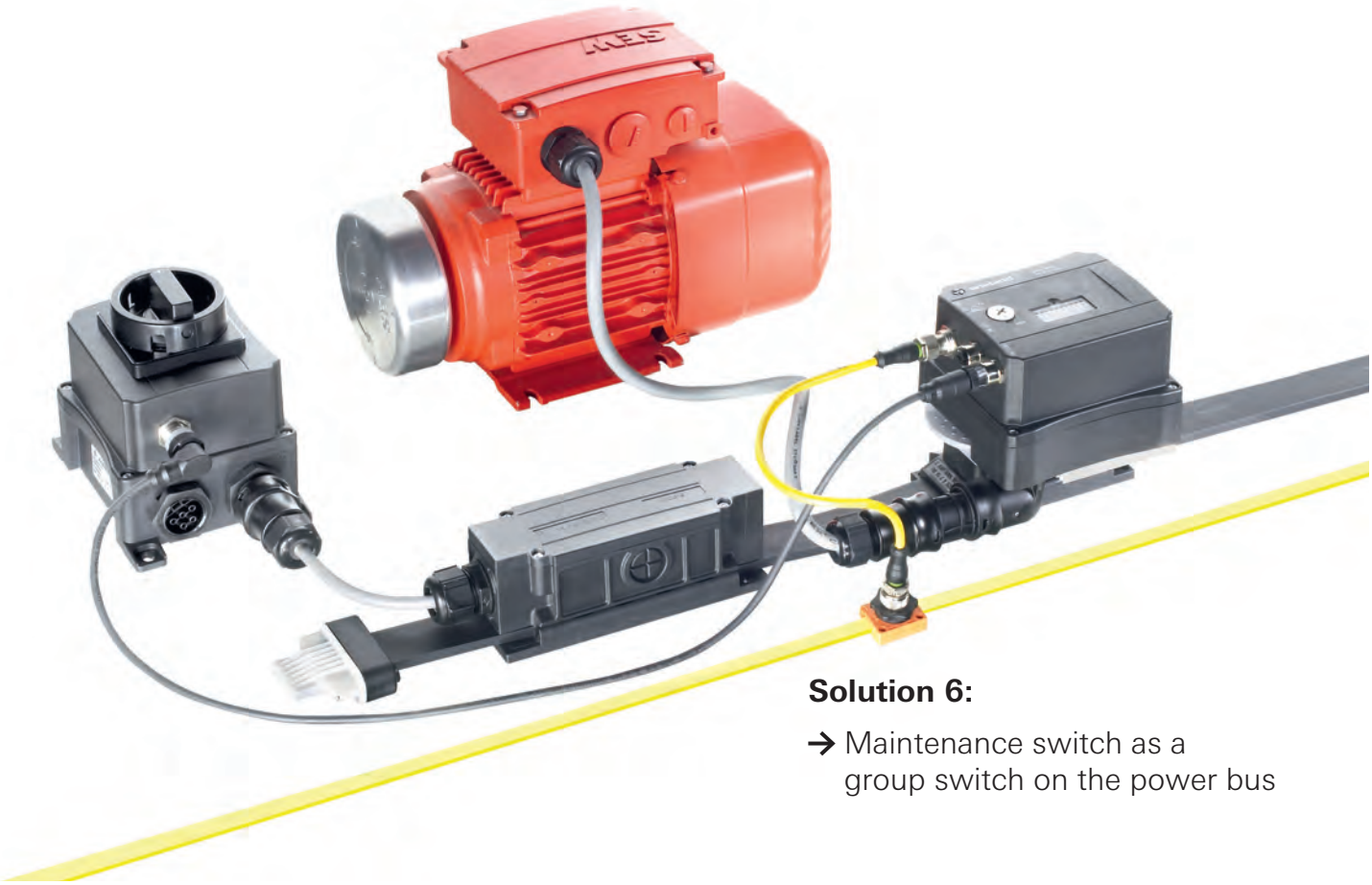


Figure similar (here with M20 screw connection)

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 Iu = 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
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 podisCON 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
podisCON 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 (mm²)	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		Type	Order No
Cable length (m)	1.5	FCS1,5 7SIFK_RST/M12-15	83.306.1501.1

Interconnecting cable podisCON 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
podisCON 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 (mm²)	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		Type	Order No
Cable length (m)	1.0	FCS1,5 5SIFK_RST -10	83.307.1001.1
	1.5	FCS1,5 5SIFK_RST -15	83.307.1501.1
	3.0	FCS1,5 5SIFK_RST -30	83.307.3001.1
	5.0	FCS1,5 5SIFK_RST -50	83.307.5001.1

Interconnecting cable podisCON 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
podisCON 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 (mm²)	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		Type	Order No
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 15O 10SW, total length: 1 m

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

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

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

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 (mm²) 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 (mm²)	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

Further technical details you find in the e-Shop at https://eshop.wieland-electric.com/

podis® –
Solutions for Automotive

Application areas

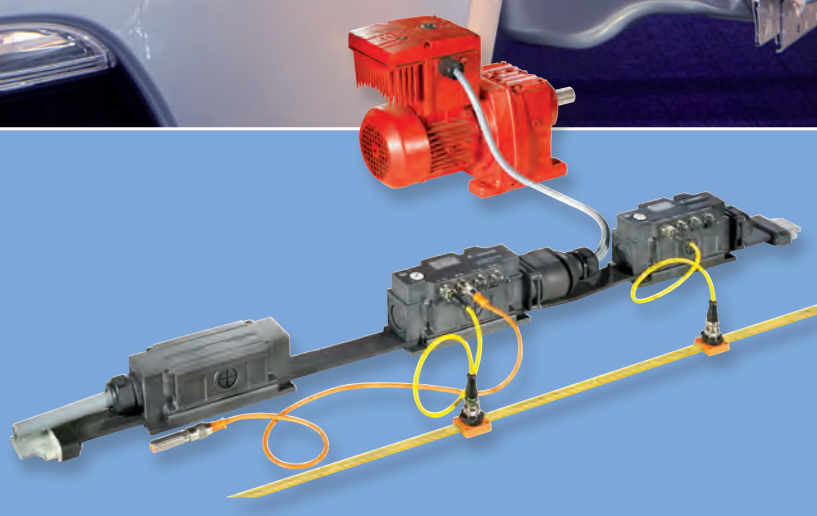
- Skid conveyors
- Floor conveyors
- Roller conveyors
- Carrying chain conveyors
- “Power and Free” systems

Solution

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

Features

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

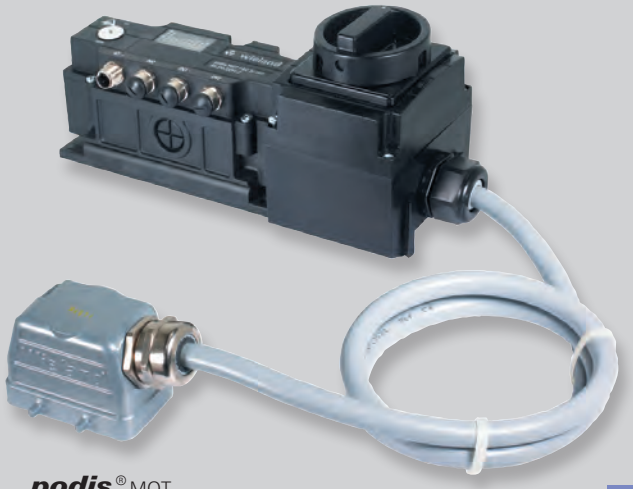


Field distributors for the uncut flat cable power bus

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

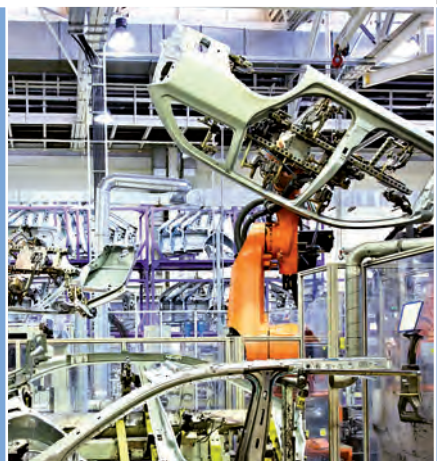
Sensors and actuators can be connected to the field bus via the ***podis***® I/O input or output modules.



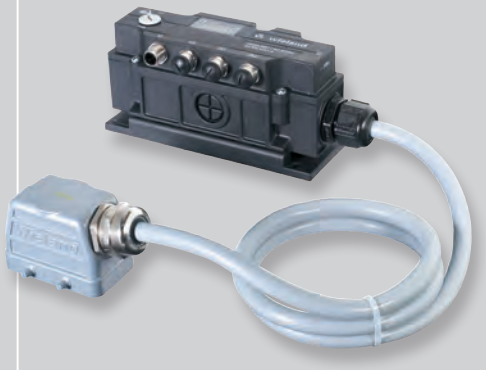
podis® MOT

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 ...

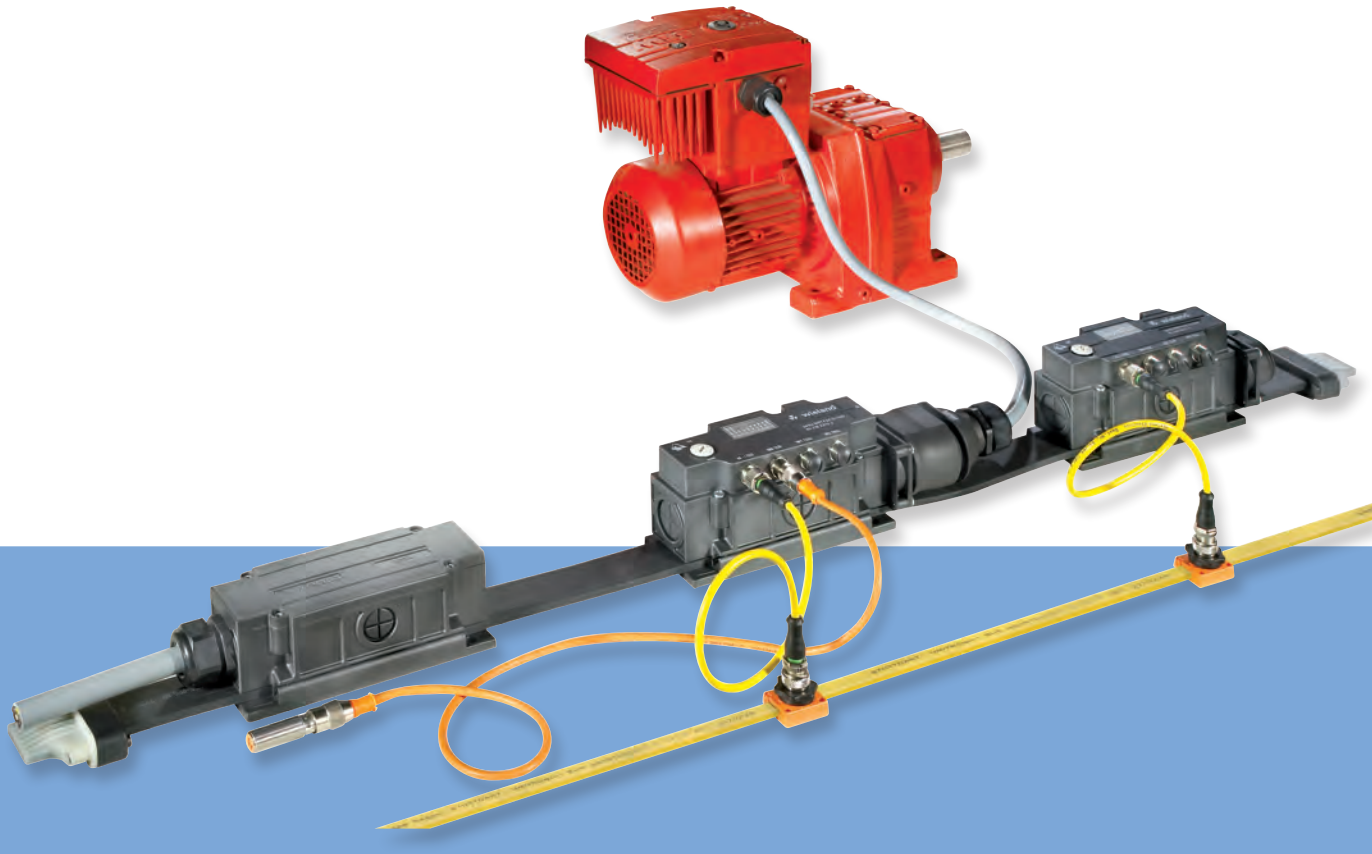
Pre-assembled;
plug-in on the drive

podis® MOT FA CP ...

Plug-in on the field distributor

podis® MOT FA CM

With maintenance switch;
plug-in on the drive



podis® MOT

Field distributors for the uncut flat 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)

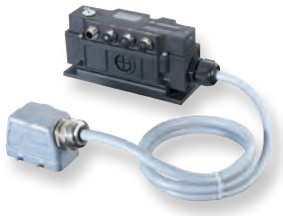
podis MOT
FA CP3I/1I4O (binär)

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

podis MOT
FA CM3I/1I4O (binär)

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

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

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

Field distributors for AS interface (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		V2.11
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		V2.11
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		Type	Order No
Cable length (m)	1.5	FA C 3I/RS485 (SEW) 15	83.214.1506.2
	2.0	FA C 3I/RS485 (SEW) 20	83.214.2006.2
	2.5	FA C 3I/RS485 (SEW) 25	83.214.2506.2
	3.0	FA C 3I/RS485 (SEW) 30	83.214.3006.2
	X.X - on request	FA C 3I/RS485 (SEW) XX	83.214.XX06.2

podis MOT
FA CM 3I/RS485

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

Description	Type	Order No
podis MOT	**FA CM 3I/RS485 10**	83.214.1006.4
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1
Number of inputs		3
Number of outputs		-
Number of HW interfaces serial RS485		1
AS-i specification		V2.11
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
Pre-assembled motor connection cable		1.0
L x W x H (mm)		254 x 88 x 123
Approvals		

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

Field distributors for 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** flat cable power bus with degree of protection IP 65, with integrated PROFIBUS-DP slave; power (400 VAC) + control (24 V, 0 V, 4 control outputs, 1 input); plug-in to the load via **revos** MOT pluggable connector (11 pole), two digital initiator inputs; two selectable as input/output via M12, PROFIBUS-DP connection via M12

Description	Type	Order No
podis MOT	**FP CP 2I2IO/1I4O**	83.253.0005.2
Technical data		
Rated voltage (V AC)		400
Rated current (A)		16
Rated operating voltage auxiliary power (V DC)		24
Rated operating current auxiliary power (A)		1
Number of inputs		3
Number of outputs		4
Digital inputs/outputs. configurable		2
Number of HW interfaces serial RS485		0
PROFIBUS Report		yes
Power bus connection type		Piercing connection
Connection type Sensors		Plug connection
Connection type Motor output		Plug connection
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 CP2I2I0/RS485

podis MOT FP CP 2I2IO/RS485 (SEW); field distributor at the PROFIBUS-DP for MOVIMOT from SEW on the **podis** flat cable power bus with degree of protection 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 CP2I2I0/RS485**	83.252.0005.2

Technical data	
Rated voltage (V AC)	400
Rated current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	3
Digital inputs/outputs. configurable	2
Number of HW interfaces serial RS485	1
PROFIBUS Report	yes
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Cable length Motor cable	see page 73
L x W x H (mm)	168.5 x 70.5 x 79.5
Approvals	cULus

podis MOT
FP C 2I2IO/RS485

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

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

Technical data	
Rated voltage (V AC)	400
Rated current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	2
Digital inputs/outputs. configurable	2
Number of HW interfaces serial RS485	1
PROFIBUS Report	yes
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Pre-assembled motor connection cable	1.0
L x W x H (mm)	168.5 x 70.5 x 79.5
Approvals	cULus

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

podis MOT
FP CM 2I2IO/RS485

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

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

Technical data	
Rated voltage (V AC)	400
Rated current (A)	16
Rated operating voltage auxiliary power (V DC)	24
Rated operating current auxiliary power (A)	1
Number of inputs	2
Digital inputs/outputs. configurable	2
Number of HW interfaces serial RS485	1
PROFIBUS Report	yes
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
Pre-assembled motor connection cable	1.0
L x W x H (mm)	254 x 88 x 123
Approvals	cULus

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

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 (mm²)			1.5
Design side 1			Plug
Design side 2			open end
Cable end treatment			ultrasonically compressed wire ends
Cable type			Ölflex Classic 110
Cable diameter	(mm)		10.6
Stripping length	(mm)		190
Wire strip length	(mm)		7
Cable length	(m)		1.0
Approvals			-
Versions		Type	Order No
Cable length (m)	1.5	***revos*** MOT W 8X1,5 - 15	83.311.1502.1
	2.0	***revos*** MOT W 8X1,5 - 20	83.311.2002.1
	3.0	***revos*** MOT W 8X1,5 - 30	83.311.3002.1
	4.0	***revos*** MOT W 8X1,5 - 40	83.311.4002.1
	5.0	***revos*** MOT W 8X1,5 - 50	83.311.5002.1

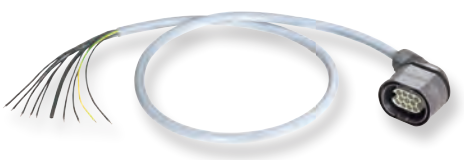
Connection cable for MOVI-SWITCH 2S drives (binary)

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

Description		Type	Order No
Connection cable		***revos*** MOT **W 9X1,5 - 10**	83.312.1002.1
Technical data			
Rated voltage (V)			400
Rated current (A)			16
Number of poles			9
Cable type (mm²)			1.5
Design side 1			Plug
Design side 2			open end
Cable end treatment			ultrasonically compressed wire ends
Cable type			Ölflex Classic 110
Cable diameter	(mm)		11.4
Stripping length	(mm)		190
Wire strip length	(mm)		7
Cable length	(m)		1.0
Approvals			-
Versions		Type	Order No
Cable length (m)	1.5	***revos*** MOT W 9X1,5 - 15	83.312.1502.1
	2.0	***revos*** MOT W 9X1,5 - 20	83.312.2002.1
	3.0	***revos*** MOT W 9X1,5 - 30	83.312.3002.1
	4.0	***revos*** MOT W 9X1,5 - 40	83.312.4002.1
	5.0	***revos*** MOT W 9X1,5 - 50	83.312.5002.1

Connection cable for MOVIMOT drives (binary)

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



Description		Type	Order No
Connection cable		***revos*** MOT **W 11X1,5 - 10**	83.313.1002.1
Technical data			
Rated voltage (V)			400
Rated current (A)			16
Number of poles			11
Cable type (mm²)			1.5
Design side 1			Plug
Design side 2			open end
Cable end treatment			ultrasonically compressed wire ends
Cable type			Ölflex Classic 110
Cable diameter	(mm)		12
Stripping length	(mm)		190
Wire strip length	(mm)		7
Cable length	(m)		1.0
Approvals			-
Versions		Type	Order No
Cable length (m)	1.5	***revos*** MOT W 11X1,5 - 15	83.313.1502.1
	2.0	***revos*** MOT W 11X1,5 - 20	83.313.2002.1
	3.0	***revos*** MOT W 11X1,5 - 30	83.313.3002.1
	4.0	***revos*** MOT W 11X1,5 - 40	83.313.4002.1
	5.0	***revos*** MOT W 11X1,5 - 50	83.313.5002.1

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; insluation removal length 8 mm, ultrasonically compressed; cable length 1000 mm

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

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

Accessories see page 63 and following.

More assemblies on request

Single-phase switches for AS interface

podis SWITCH
FA C 3I/1OR

podis SWITCH FA C 3I/1OR 15; field distributor at the AS-i for distributed loads (single-phase loads) on the podis flat cable power bus with degree of protection IP65, standard AS-i slave; one 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/1OR 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	V2.11
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		Type	Order No
Cable length (m)	X.X - on request	FA C 3I/1OR XX	83.217.XX09.2

podis SWITCH
FA C 3I/1OT

podis SWITCH FA C 3I/1OT 15; field distributor at the AS-i for distributed loads (single-phase loads) on the podis flat cable power bus with degree of protection IP65, standard AS-i slave; one 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/1OT 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	V2.11
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		Type	Order No
Cable length (m)	X.X - on request	FA C 3I/1OT XX	83.221.XX09.2

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

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

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

Technical data	
Rated voltage (V AC)	230/400
Rated current (A)	2
Rated operating voltage auxiliary power (V DC)	-
Rated operating current auxiliary power (A)	-
Number of inputs	2
Number of outputs	2
Output current per channel (A)	1.0
Output type	Relais
AS-i specification	V2.11
Power bus connection type	Piercing connection
Connection type Sensors	Plug connection
Connection type Motor output	Plug connection
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 I/O FAJC 3IO
Input/output module

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

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

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

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

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

podis® CON –
Solutions for long stretches: Cranes, Supply tunnels, Wind turbines

Application areas

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

Solution

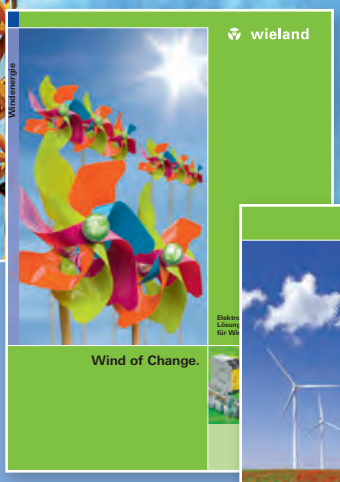
- Tower wiring
- LED lighting
- Power sockets

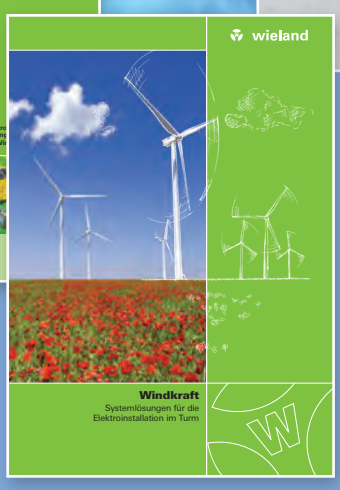
Features

- Simple, clearly organized construction
- Easy planning
- Cost reduction by fast cycle times in production
- Fast, faultless installation
- Long-lasting LED lights

Advantages of LED lighting:

- Energy-saving LED technology
- Fulfills industrial requirements (DIN EN 60598-2-22)
- Suitable for extreme operating temperature ranges (-40 °C to +70 °C)
- Wide input voltage range
- Resistant to shock and vibrations





More information about wind energie is available in the brochures „Wind of Change“ Order No. 0400.1 and „Installation in the tower“ Order No. 0414.1

Installation components

Flat cable

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

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

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

Flat cable

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

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

Technical data	
Nominal voltage U (V)	600
Nominal cable cross-section (mm²)	4
Sheath color	black
Sheath material	XLPE
Number of wires	7
Wire coding	Figures
Wire insulation	XLPE
Cable width, approx. / Cable height, approx. (mm)	35 / 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

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

Description	Order No
Cable end piece	Z5.562.7553.1

Technical data	
Approvals	

Feed-through flat cable

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

Description	Order No
Feed-through flat cable	Z5.563.6553.1

Technical data	
Approvals	

Connecting cable

podis CON connecting cable FCS 4 7 STSA SIFK FM10; protected plug with cable 7x4 mm², connection module with fix mountig plate for Obo mesh cable tray

Description	Type	Order No
Connecting cable	**FCS 4 7 STSA SIFK FM10**	83.302.1035.2

Technical data		
Rated voltage (V)		400
Rated current (A)		20
Number of poles		7
Cable cross-section (mm²)		4
Design side 1		Plug
Design side 2		Connection module
Cable type		Ölflex Classic 110
Cable diameter	(mm)	13.4
Cable length	(m)	1.0

Versions		Type	Order No
Cable length (m)	2.0	FCS 4 7 STSA SIFK - 20	83.302.2035.2
	3.0	FCS 4 7 STSA SIFK - 30	83.302.3035.2
	4.0	FCS 4 7 STSA SIFK - 40	83.302.4035.2
	5.0	FCS 4 7 STSA SIFK - 50	83.302.5035.2

For technical data, see Page 62; for accessories, see Page 63 ff.

Installation components

Connection module 7 pole

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

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

Technical data	
Rated voltage (V)	500
Rated current (A)	20
Rated voltage Auxiliary power (V)	50
Rated current Auxiliary power (A)	20
Number of poles	7
Connection type 1	Penetration connection
Connection type 2	Cage clamp connection
Min. rated cross-section, fine-stranded (mm²]	1.5 mm²
Max. rated cross-section, fine-stranded (mm²]	4 mm²
Mounting method	Wall-mounted
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)	160 x 60 x 60

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
Rated voltage Auxiliary power (V)	50
Rated current Auxiliary power (A)	20
Number of poles	7
Connection type 1	Penetration connection
Connection type 2	Cage clamp connection
Min. rated cross-section, fine-stranded (mm²]	1.5 mm²
Max. rated cross-section, fine-stranded (mm²]	4 mm²
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

Distribution module 7 pole

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

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

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	32
Number of poles	7
Connection type 1	Screw connection
Connection type 2	Screw connection
Min. rated cross-section, fine-stranded (mm²)	1,5
Max. rated cross-section, fine-stranded (mm²)	4
Color	black
Degree of protection	IP65
L x W x H (mm)	175 x 83 x 78
Approvals	

Plug-in outgoing feeders

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

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

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	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 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 SO2**	75.015.0151.2

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Plug connection
Connection type 2	Screw connection
min. rated cross-section, fine-stranded (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	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 (mm²)	1.5
max. rated cross-section, fine-stranded (mm²)	4
Color	black
Degree of protection	IP65
Length (mm)	113
Width (mm)	57
Height (mm)	39
Approvals	

Flat cable outlet

Flat cable outlet, pluggable FCS 4 7 SI BU FM; with fix mounting plate for Obo-Bettermann wire tray; 7-pole, 20 A; 277/480 V 4 kV/3(VDE); 600 V (UL, CSA); socket with plastic locking lever; Protection type IP65 plugged or with protective cover 07.409.7256.0; black

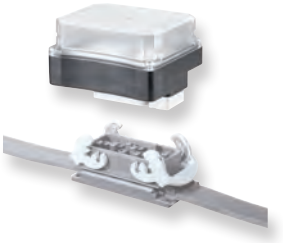
Description	Type	Order No
Flat cable outlet	**FCS 4 7 SI BU SW FM**	99.800.4866.1

Technical data	
Rated voltage (V)	500
Rated voltage Auxiliary power (V)	50
Rated current (A)	20
Number of poles	7
Connection type 1	Insulation piercing connection
Connection type 2	Plug-in connection
Rated cross-section, power bus (mm²)	4
Degree of protection	IP65
Operating temperature min./max.	-30 °C … 55 °C
Storage temperature / transport min./max.	-40 °C … 70 °C
L x W x H (mm)	140 x 60 x 62
Approvals	

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 flat 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 flat 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 86

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 flat 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

Assembled cables see page 86

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 flat 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

podisLED Luminaire FCS 90-250 V AC 20W

Description	Type	Order No
podisLED 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

podisLED Luminaire RST 90-250 V AC 20W

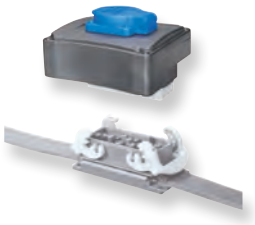
Description	Type	Order No
podisLED Luminaire	RST 90-250 V AC 20 W	83.241.0130.0

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

Service sockets on the power bus

podis
Schuko 16 A

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

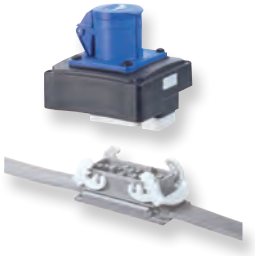


Description	Type	Order No
Socket	**FCS-CEE7/4 230V16A3P**	83.315.0001.1

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	blue
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

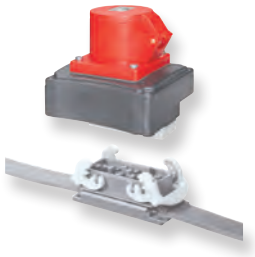


Description	Type	Order No
Socket	**FCS-CEE7/4 230V16A3P**	83.315.0001.2

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	blue
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

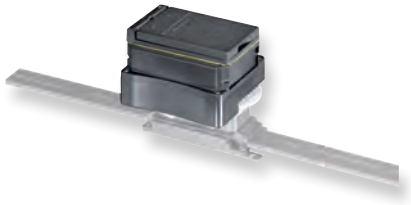


Description	Type	Order No
Socket	**FCS-CEE6H 400V16A5P**	83.315.0002.1

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	red
Degree of protection (IP)	IP44
Length (mm)	115
Width (mm)	104
Height (mm)	160

podis
FCS-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	yellow
Degree of protection (IP)	NEMA3
Length (mm)	115
Width (mm)	104
Height (mm)	131
Approvals	

podis®CON Flat 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 flat 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 flat cable for a given fuse in dependence on the type of installation and the number of loaded conductors in Tables 1 - 2 presented below.

The limit values for the connection components in dependence on the temperature and the loaded strands are found in Table 3.

Table 1: Current load capacity of the *podis*® CON flat cable PVC 7G2.5 mm² (00.705.0503.3)

	In the open d > 10 mm			Loose on wall or floor			Cable duct		
Loaded strand	3	5	6	3	5	6	3	5	6
Ta [°C]	Max. cross current			Max. cross current			Max. cross current		
20	32	25	25	25	20	20	25	20	20
25	32	25	25	25	20	20	25	20	20
30	25	25	20	25	20	20	20	20	16
35	25	20	20	25	20	20	20	16	16
40	25	20	20	20	16	16	20	16	16
45	20	20	16	20	16	16	16	16	12
50	20	16	16	16	16	12	16	12	12

Table 2: Current load capacity of the *podis*® CON flat cable PVC 7G4 mm² (00.709.0504.1)

	In the open d > 10 mm			Loose on wall or floor			Cable duct		
Loaded strand	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 3: Limit values of the *podis*® CON connection components on the flat cable EVA 7G4 mm² (00.709.0504.1), valid for:
- Connection module, fixed 7-pole tension spring connection (75.018.0051.2) and flat cable outlet pluggable; 7-pole (75.015.5153.1)

	Contacting point						
Ambient temperature Ta [°C]	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

PROFIBUS DP terminating resistor M12

PROFIBUS DP plug with terminating resistor M12

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

Round cable connection RVDP SW12 BW12 06

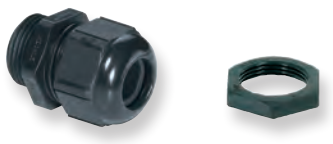
M12 interconnecting cable RVDP SW12 BW12 06; B-coded, plug angled to socket angled; shielded, for PROFIBUS DP, cable length 600 mm

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

Technical data 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

Cabe screw connection



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

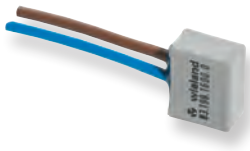
AS-i Accessories

AS-i protection *podis* CON AS-i S PG

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

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

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



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

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

AS-i branch cable

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

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

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

Description	Type	Order No
Cable screw connection	**M 20 x 1.5 with AS-i insert**	Z5.505.0653.1

Addressing device AS-i PPG1

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

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

Programming cable AS-i 1.5m

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

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

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*** flat 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*** flat 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; flat cable connection, fixed, with mounting, one lateral ***podis*** flat cable feed-through, with two-hand locking, color: silver gray RAL 7001

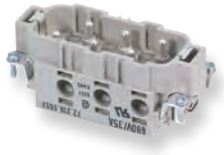
Description	Type	Order No
Bottom	**FCS GUT 16 GZ FLD**	75.900.1028.0

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

Cable end piece

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

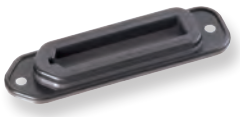
Description	Order No
Cable end piece	Z5.562.7553.1

Feed-through flat cable

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

Description	Order No
Feed-through flat cable	Z5.563.6553.1

Sealing



Blind seal for feed-through Z5.563.6553.1;
black

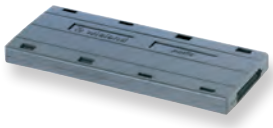
Description	Order No
Sealing	05.563.7983.0

Mounting clip

Mounting clip, light gray

Description	Order No
Mounting clip	05.562.3000.0

Flat cable sleeve



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

Description	Order No
Flat cable sleeve	Z1.005.6553.1

Cover BAS AD DA 16

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

Description	Type	Order No
Protective cover	**BAS AD DA 16**	07.409.7256.0

Cover plate 10

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

Description	Order No
Cover plate 10	Z5.563.7553.0

Tools and sample kits

podis® sample kit

podis CON sample kit

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

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* flat cables PVC 7 x 2.5 mm² (00.705.0503.3), 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 flat cable Please note: suitable for *podis* CON flat cable PVC 7x2.5 mm² (00.705.0503.3) only

Description	Order No
Stripping pliers	95.350.0300.0

Stripping cutter

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

Description	Order No
Stripping cutter	95.350.0700.0

Screw driver blade DIN 3128

Screw driver bit Philips size 1; shaft length 45 mm

Description	Order No
Screw driver blade DIN 3128	06.502.5200.0

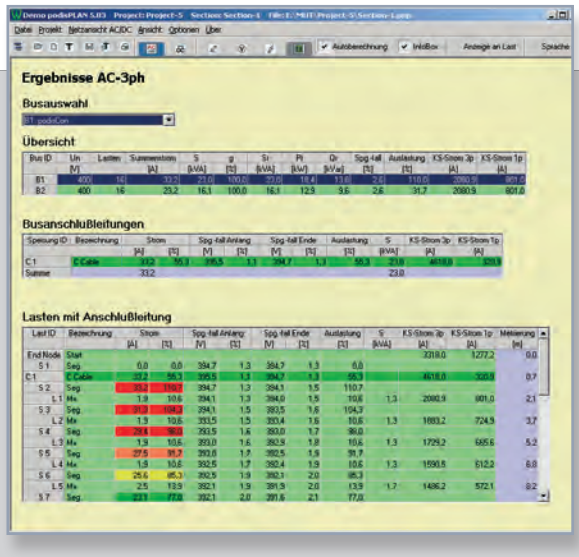
Tools and sample kits

podis® PLAN CD

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
Please note: licensed version – activation via license key

Description	Order No
podis PLAN **CD**	95.502.1010.0

podis® PLAN –
Efficient project planning tool



Results are provided in diagram or table form.

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.

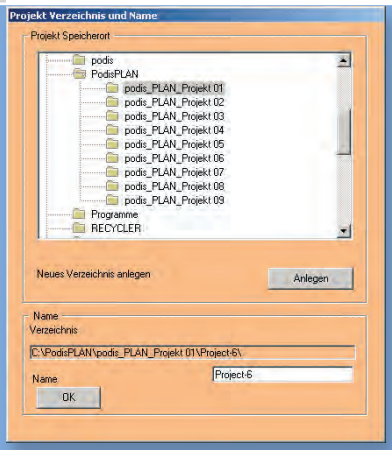
Using graphic support, you can determine the optimum configuration of your power bus with the ideal entry point and prevent down times caused by unresponsive protective devices. Inconsistencies or unfavorable configurations are already detectable in the project planning phase. Costly mistakes are prevented early, i.e. in the initial project planning phase.

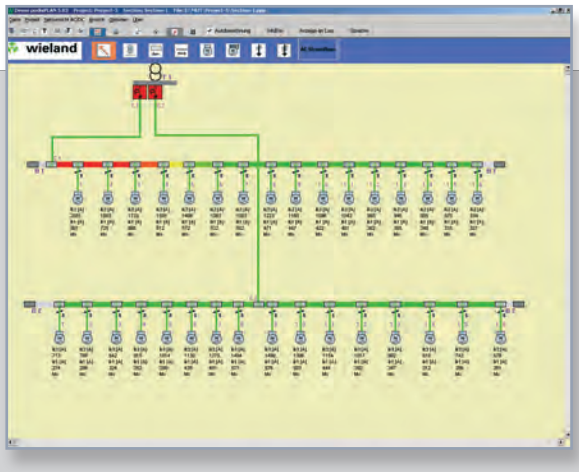
Entry of group protection, cable and load parameters:

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

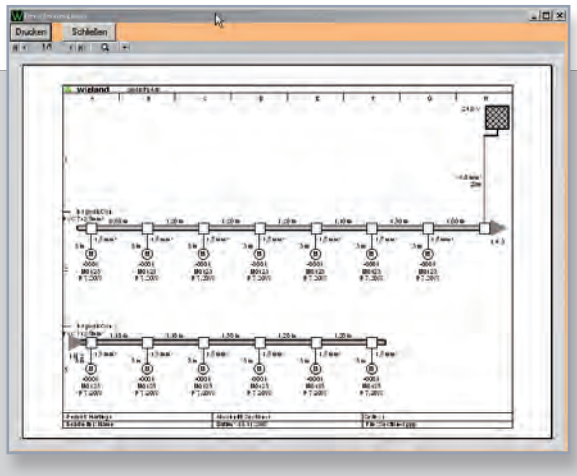
Enterparameters:

- 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 ofsupply 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

Order No 95.502.1010.0

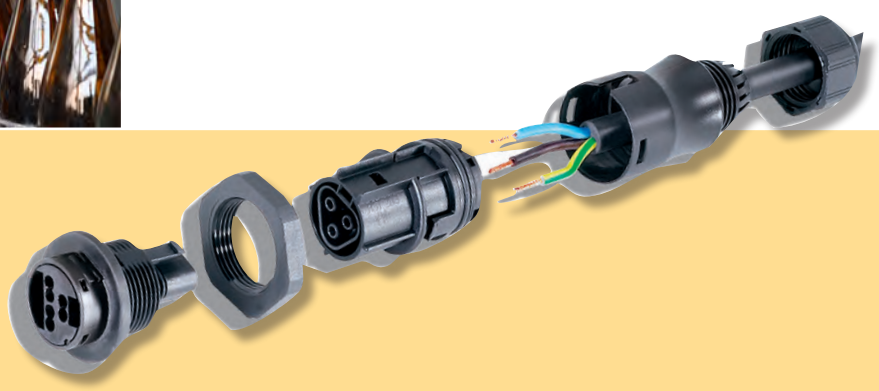
gesis®

The plug-in electrical installation also for industrial use

The issue

Whether single applications or complex systems – the task is the same: Electrical loads need to be interconnected quickly and safely. Conventional installations do not meet this requirement.

Cumbersome trimming of cables, stripping, removing insulation and the final connection of components is not only very time consuming, but frequently leads to faults. The participation of different trades (mechanical and electrical) in the installation of a system also prevents rapid setup – not only during initial installation. The very same installation steps are repeated during system expansions, routine maintenance and replacement of defective devices.

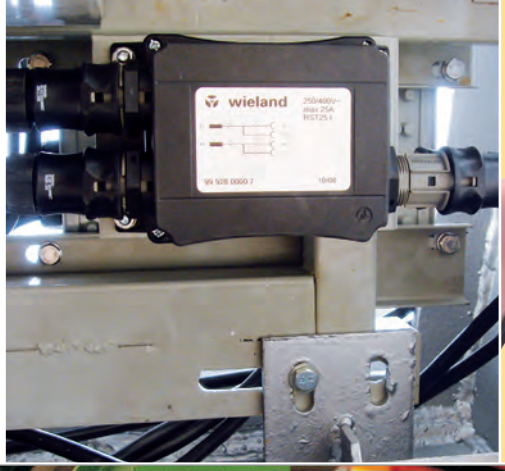


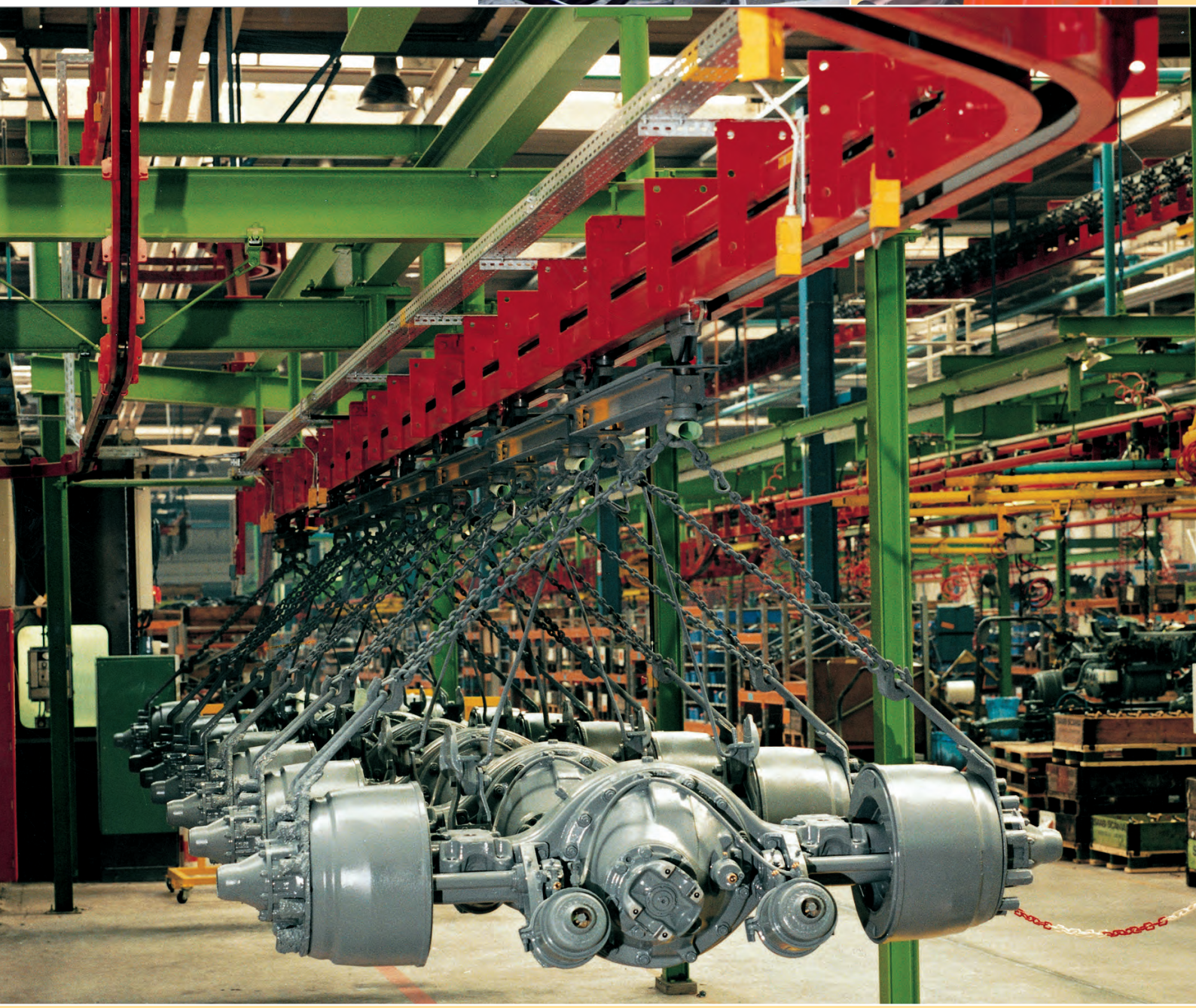
The solution

As a complete installation system, ***gesis*®** 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


wieland



gesis® 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 ***gesis***® 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

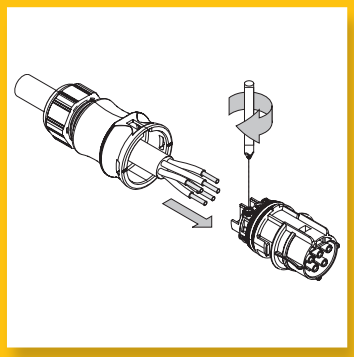
Device connections serve as interfaces between electrical loads and the ***gesis***® RST® installation system. Integrating the device connection makes the load plug-in, which means it can be integrated into the installation as desired.

The device connections are equipped with standard threads (M16 to M25) and can, therefore, be replaced by conventional connections without difficulty.

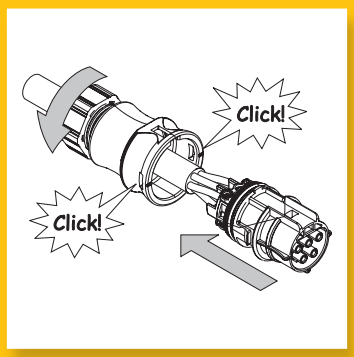
See also:

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

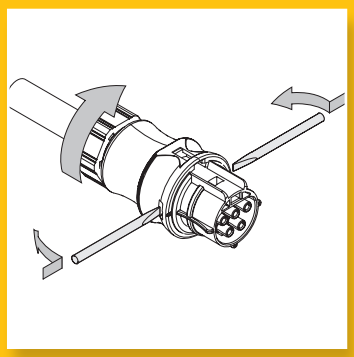
gesis® RST®
– Plug in and go



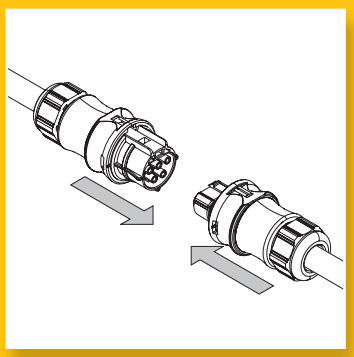
Connect conductor



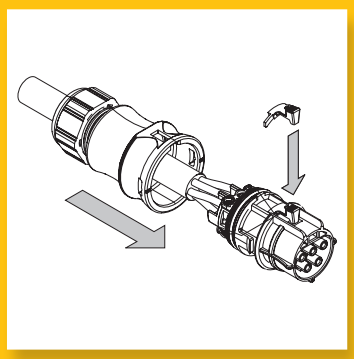
Close …



or open …



plug in or lock – ready!



Unlock plug connection

Advantages

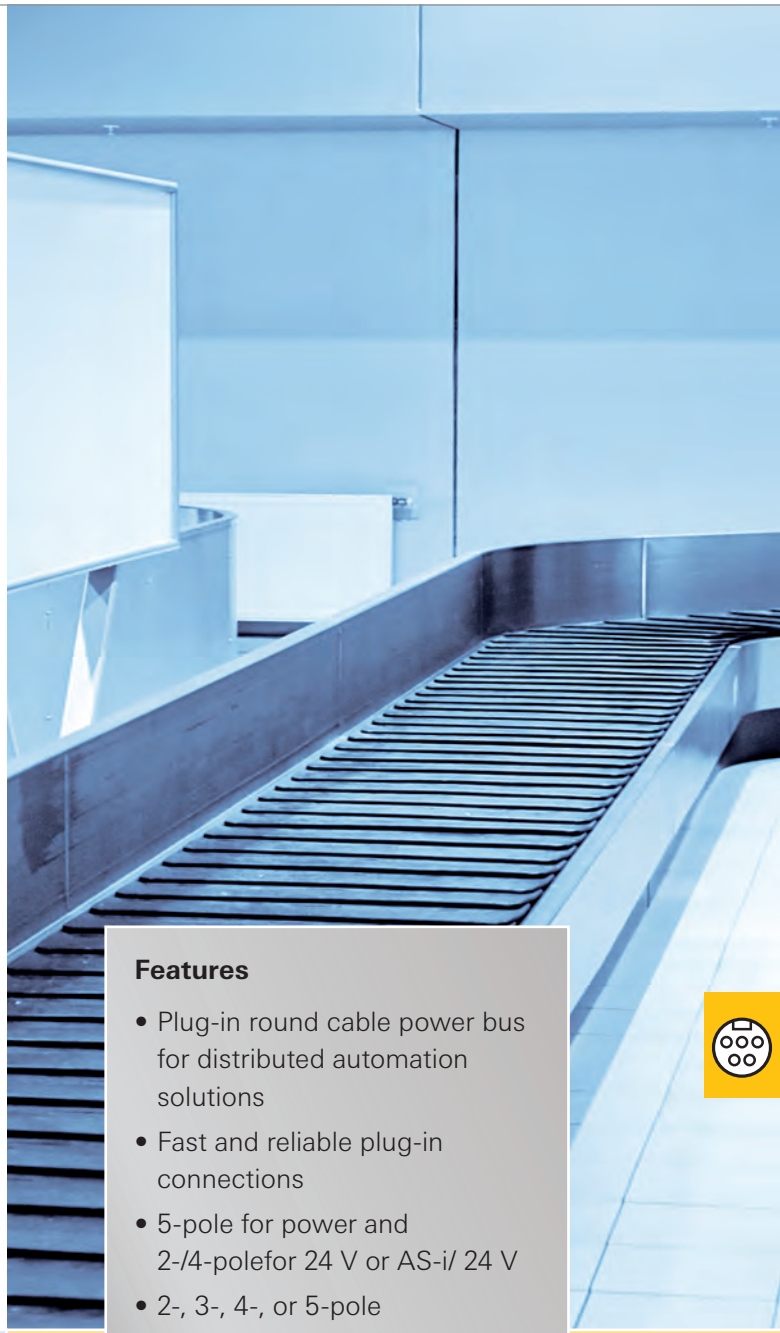
- Touch-protected
- Neat cable run
- Easy extension or modification
- Reusable
- Mechanically coded
- Integrated locks and strain reliefs
- Degree of protection IP66 / 68 (3m, 2h) / 69K

gesis®
– for unlimited options

Choosing a plug-in installation system gives you all the advantages of stateof-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 plu gable 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-polefor 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 screw connection and locking, UL/CSA;

Description	Type	Order No
Socket part	**RST20I5S B1 ZR1 SW**	96.051.4053.1
Technical data		
Rated voltage		400 V
Rated current (A)		20 A
Design		Socket
Connection type		Screw connection
Number of poles		5
Cable diameter		6-10 mm
Approvals		

Socket part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in socket part, 250/400 V, 20 A, for cable diameter 10-14 mm, black color coding, black housing color; for rigid, for fine-stranded and multi-stranded cables from 0.75 to 4 mm²; Degree of protection IP66 / 68 (3 m, 2 h) / 69K); unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Socket part	**RST20I5S B1 ZR2 SW**	96.051.4153.1
Technical data		
Rated voltage		400 V
Rated current (A)		20 A
Design		Socket
Connection type		Screw connection
Number of poles		5
Cable diameter		10-14 mm
Approvals		

Socket part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in socket part, 250/400 V, 20 A, for cable diameter 13-18 mm, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables from 0,75 to 4 mm²; Degree of protection IP66 / 68 (3 m, 2 h) / 69K; unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Socket part	**RST20I5S B1 ZR3 SW**	96.051.4553.1
Technical data		
Rated voltage		400 V
Rated current (A)		20 A
Design		Socket
Connection type		Screw connection
Number of poles		5
Cable diameter		13-18 mm
Approvals		

Plug part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in plug part, 250/400 V, 20 A, for cable diameter 10-14 mm, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables from 0.75 to 4 mm²; Degree of protection IP66 / 68 (3 m, 2 h) / 69K); unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Plug part	**RST20I5S S1 ZR1 V SW**	96.052.4053.1
Technical data		
Rated voltage		400 V
Rated current (A)		20 A
Design		plug
Connection type		Screw connection
Number of poles		5
Cable diameter		6-10 mm
Approvals		

Plug part with strain relief

Pluggable connector RST 20i5, 5 pole, screw-in plug part, 250/400 V, 20 A, for cable diameter 10-14 mm, black color coding, black housing color; for rigid, fine-stranded and multi-stranded cables from 0.75 to 4 mm²; Degree of protection IP66 / 68 (3 m, 2 h) / 69K); unassembled with cable screw connection and locking, UL/CSA.

Description	Type	Order No
Plug part	**RST20I5S S1 ZR2 V SW**	96.052.4153.1
Technical data		
Rated voltage		400 V
Rated current (A)		20 A
Design		plug
Connection type		Screw connection
Number of poles		5
Cable diameter		10-14 mm
Approvals		

Plug part with strain relief

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

Description	Type	Order No
Socket part	**RST20I4S B1 ZR1SVL BR01**	96.041.4051.4
Technical data		
Rated voltage		50 V
Rated current (A)		20 A
Design		Socket
Connection type		Screw connection
Number of poles		4
Cable diameter		6-10 mm
Approvals		-

Plug part with strain relief

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

Description	Type	Order No
Plug part	**RST20I4S S1 ZR1SVL BR01**	96.042.4051.4
Technical data		
Rated voltage		50 V
Rated current (A)		20 A
Design		plug
Connection type		Screw connection
Number of poles		4
Cable diameter		6-10 mm
Approvals		-

Socket part for installation

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

Description	Type	Order No
Socket part	**RST20I5S B1 M01 SW**	96.051.5053.1
Technical data		
Rated voltage		400 V
Rated current (A)		20 A
Design		Socket
Connection type		Screw connection
Number of poles		5
Thread for housing feedthrough		M25
Approvals		

Plug part for installation

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

Description	Type	Order No
Plug part	**RST20I5S S1 M01V SW**	96.052.5053.1
Technical data		
Rated voltage		400 V
Rated current (A)		20 A
Design		plug
Connection type		Screw connection
Number of poles		5
Thread for housing feedthrough		M25
Approvals		

Socket part for installation

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

Description	Type	Order No
Socket part	**RST20I4S B1 M01 L BR01**	96.041.5051.4
Technical data		
Rated voltage		50 V
Rated current (A)		20 A
Design		Socket
Connection type		Screw connection
Number of poles		4
Thread for housing feedthrough		M25
Approvals		-

Plug part for installation

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

Description	Type	Order No
Plug part	**RST20I4S S1 M01 L BR01**	96.042.5051.4
Technical data		
Rated voltage		50 V
Rated current (A)		20 A
Design		plug
Connection type		Screw connection
Number of poles		4
Thread for housing feedthrough		M25
Approvals		-

Assembled cables

Interconnecting cable plug – socket

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

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

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

Connection cable 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- 25O 10SW, total length: 1 m

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

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

Connection cable plug – free end

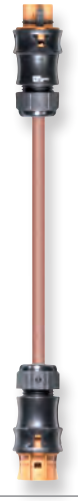
Round pluggable connector, assembled with cable "Ölflex Classic 110 5G2.5", plug on one side / free end on the other, cable cross-section: 2.5 mm², color: Pluggable connector black, cable gray, system: RST 20/5KS -S 25O 10SW, total length: 1 m

Description		Type	Order No
Assembled cable		**RST20I5KS-S 25O 10SW**	96.453.1084.1
Technical data			
Rated voltage (V)			400
Rated current (A)			20
Number of poles			5
Cable cross-section (mm²)			2.5
Design side 1			plug
Design side 2			open end
Cable end treatment			ultrasonically compressed wire ends
Cable type			Ölflex Classic 110 5G2.5
Cable diameter	(mm)		10
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 25O 20SW	96.453.2084.1
	3.0	RST20I5KS-S 25O 30SW	96.453.3084.1
	4.0	RST20I5KS-S 25O 40SW	96.453.4084.1
	5.0	RST20I5KS-S 25O 50SW	96.453.5084.1
	6.0	RST20I5KS-S 25O 60SW	96.453.6084.1
	7.0	RST20I5KS-S 25O 70SW	96.453.7084.1
	8.0	RST20I5KS-S 25O 80SW	96.453.8084.1
	9.0	RST20I5KS-S 25O 90SW	96.453.9084.1

Assembled cables

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



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

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

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

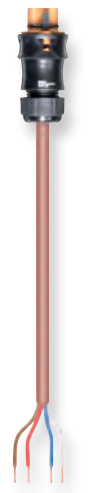
Connection cable socket – free end for AS-i/ 24 V

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

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

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

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



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

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

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

Distributor

Power distributor box

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

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

Technical data	
Rated voltage (V)	400
Rated voltage Auxiliary power (V)	-
Rated current (A)	20
Number of poles	5
Connection type 1	Plug connection
Connection type 2	Plug connection
Color	black
Degree of protection	IP65, IP66, IP67, IP68 (3 m 2 h)
Length (mm)	162
Width (mm)	104
Height (mm)	57.2
Approvals	-

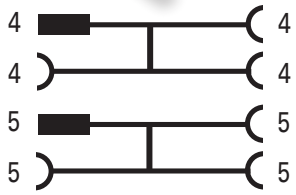
Distributor box AS-i / 24 V

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

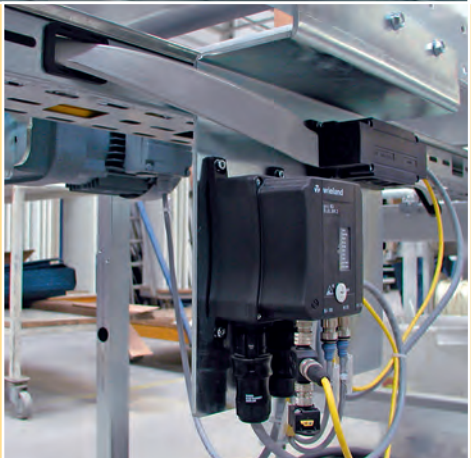
Description	Type	Order No
Distributor box	**RST20I5B 4P2 F VGX SW99**	99.903.0000.7

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)"

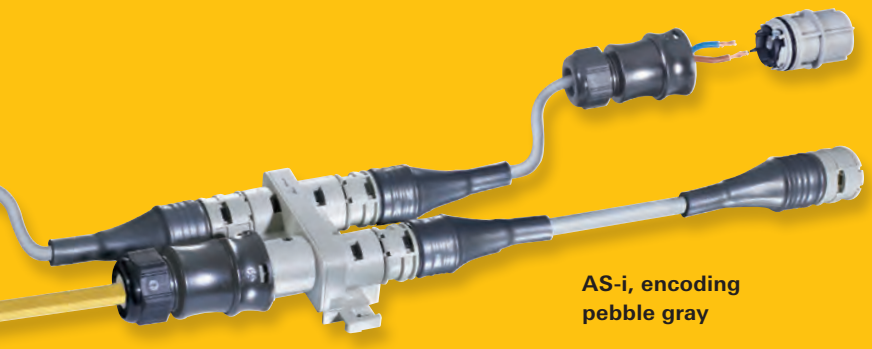
Order No. 0690.1

gesis®
– Applications

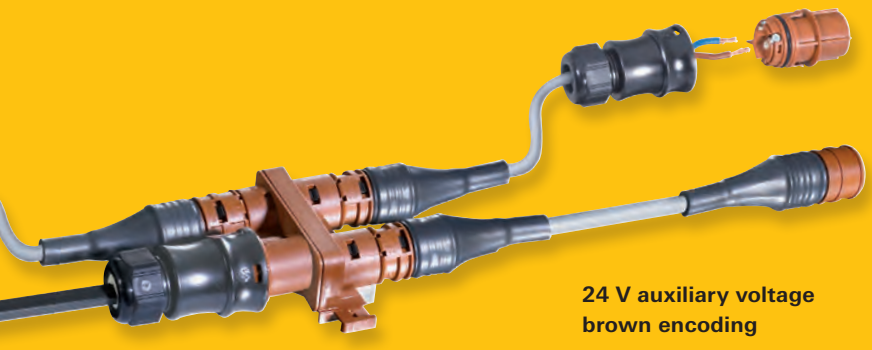


Applications

- 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) / 69K
- Temperatures of -40 to +100° C
- Screw connection 0.5 – 4.0 mm²

Four basic modules for an integrated installation:

- Pluggable connectors can beassembled 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 gesis® RST® for the AS Interface

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

gesis®RST® opens up a whole world of new opportunities. Complex system components can be fully pre-assebled 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)/69K

24 V auxiliary voltage, 2 pole, brown encoding

Pluggable connector for round cables	M25 system connection for housing installation	Assembled cables 2 x 1.5 mm²		
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			
Plug part 	**Plug part** 			
Order No 96.022.4051.4	Order No 96.022.5051.4	Order No 96.222.x092.4	Order No 96.222.x097.4	Order No 96.222.x098.4

Pluggable connector for AS-i profile cable	Distributor 1E/3A		Assembled cables 2 x 2,5 mm²		
With Screw connection	With fixing option		Extension cable Socket – plug Ölflex Classic 100	Connection cable Socket – open end with ultrasonically compressed wire ends Ölflex Classic 100	Connection cable Plug – open end with ultrasonically compressed wire ends Ölflex Classic 100
Socket part 					
Order No 96.021.4051.4	Order No 96.020.0151.4				
Plug part 	**Caps** suitable for any encoding  With loss-protection for socket parts not in use	 With loss-protection for plug parts not in use			
Order No 96.022.4051.4	Order No 99.414.6205.2	Order No 99.416.6205.2	Order No 96.223.x092.4	Order No 96.223.x097.4	Order No 96.223.x098.4

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

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

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

Pluggable connector for round cables	M25 system connection for housing installation	Assembled cables 2 x 1,5 mm²		
With Screw connection Design: For cables 6 – 10 mm	Screw connection	Extension cable Socket – plug Ölflex Classic 100	Connection cable Socket – open end with ultrasonically compressed wire ends Ölflex Classic 100	Connection cable Plug – open end with ultrasonically compressed wire ends Ölflex Classic 100
Socket part 	**Socket part** 			
Order No 96.021.4050.8	Order No 96.021.5050.8			
Plug part 	**Plug part** 			
Order No 96.022.4050.8	Order No 96.022.5050.8	Order No 96.222.x092.8	Order No 96.222.x097.8	Order No 96.222.x098.8

Pluggable connector for AS-i profile cable	Distributor 1E/3A		Assembled cables 2 x 2,5 mm²		
With Screw connection	With fixing option		Extension cable Socket – plug Ölflex Classic 100	Connection cable Socket – open end with ultrasonically compressed wire ends Ölflex Classic 100	Connection cable Plug – open end with ultrasonically compressed wire ends Ölflex Classic 100
Socket part 					
Order No 96.021.4950.8	Order No 96.020.0150.8				
Plug part 	**Caps** suitable for any encoding  for socket parts not in use	 for plug parts not in use			
Order No 96.022.4950.8	Order No Z5.564.4553.1	Order No 05.564.4453.1	Order No 96.223.x092.8	Order No 96.223.x097.8	Order No 96.223.x098.8

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

fasis, selos

Innovative DIN Rail terminal blocks

Wieland Electric rail terminal block product lines:

- ***fasis*** – DIN Rail terminal blocks with tension, push-in and plug-in spring connection
- ***selos*** – DIN Rail terminal blocks with screw connection
- ***fasis*** BIT/***selos*** BIT – DIN Rail terminal blocks for the junction box

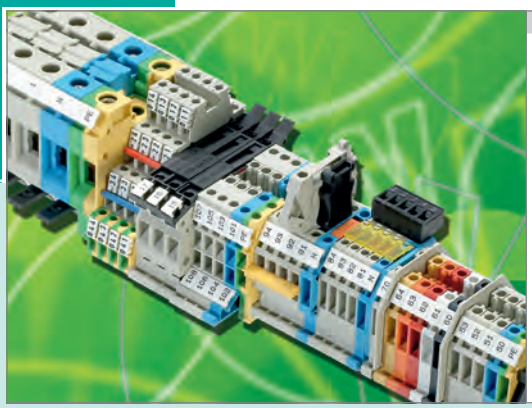
High mechanical stability and contact stability make Wieland terminal blocks especially suitable for the demands of the logistics industry. Whether for explosion and fire protection, vibration and shock resistance, or international approvals for worldwide applications, Wieland Electric provides solutions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

fasis – DIN Rail terminal blocks with tension spring and push-in connection

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

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

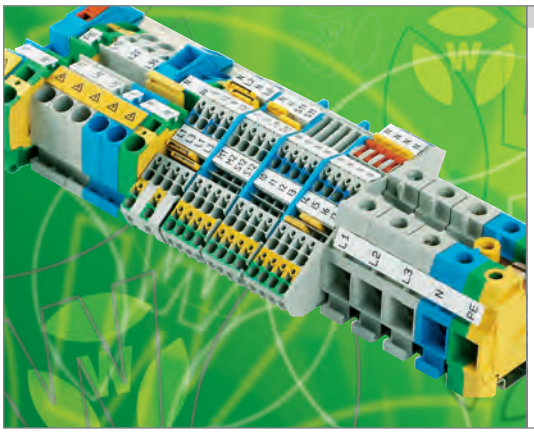
selos – DIN Rail terminal blocks with screw connection



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

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

fasis BIT / *selos* BIT – DIN Rail terminal blocks for the junction box

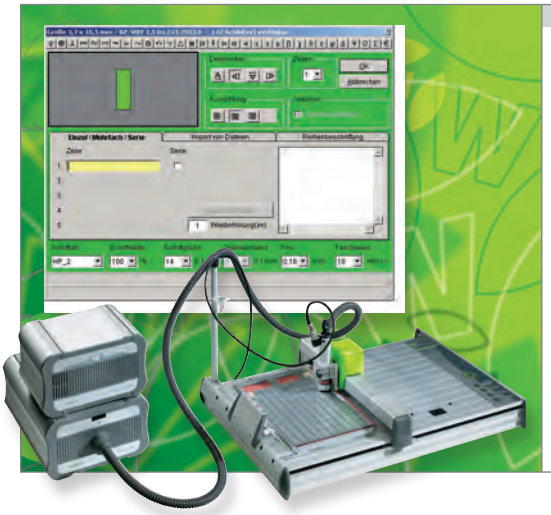


Increasing automation in buildings and the safety functions to be installed in buildings increase the requirements for energy and signal management in electrical distribution systems. The growing number of circuits require a terminal block system that can be used in confined spaces and reduces the wiring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

wieplan – Configuration software for terminal blocks

wieplan provides a powerful software tool in several languages for configuring terminal strips with Wieland terminal blocks.
Operation is user-friendly and the intuitive user interface guides you step-by-step through the entire configuration process. You then have the option of ordering the configured terminal strip from Wieland – completely pre-assembled. Save valuable time and money with ***wieplan***!

wiemarc – Configuration software for terminal blocks



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

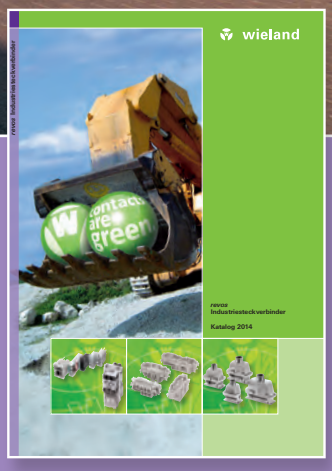
Detailed information may be found in our catalogs:

selos / ***fasis*** BIT
DIN Rail terminal blocks with screw, tension sprind and push-in connection technologies
Order No 0500.1

fasis BIT / ***selos*** BIT
DIN Rail terminal blocks for the junction box
Order No 0510.1

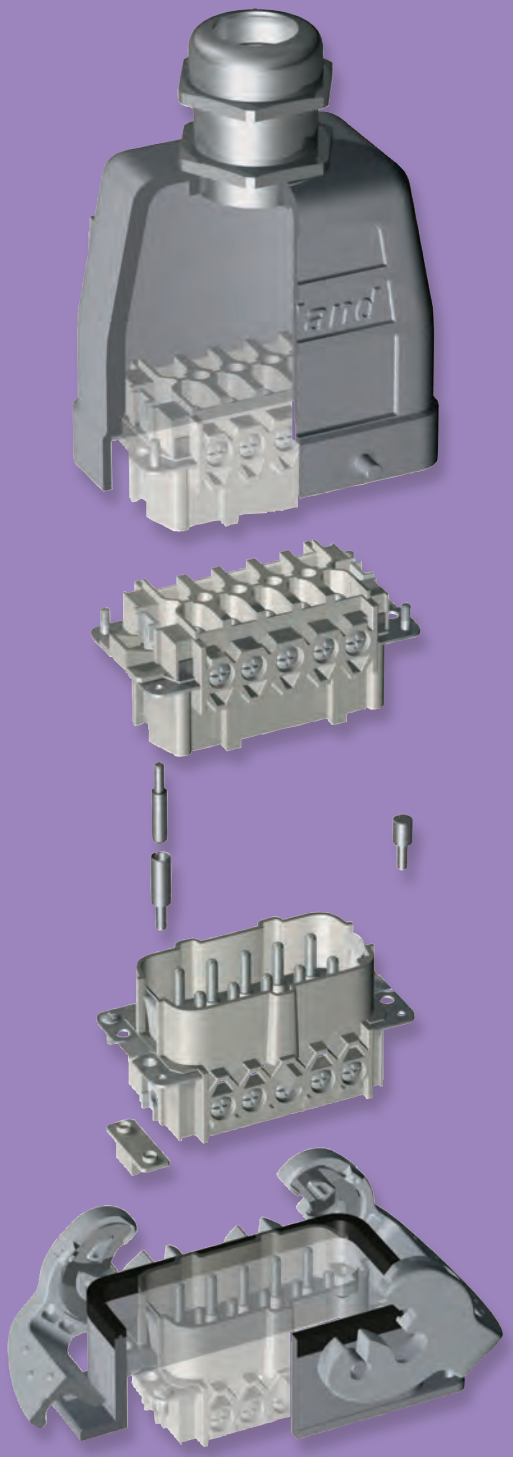
revos

For any application –
Heavy-duty industrial connectors



More information
is available in the catalog
„*revos* – Industrial Multipole Connectors“

Order No. 0530.1



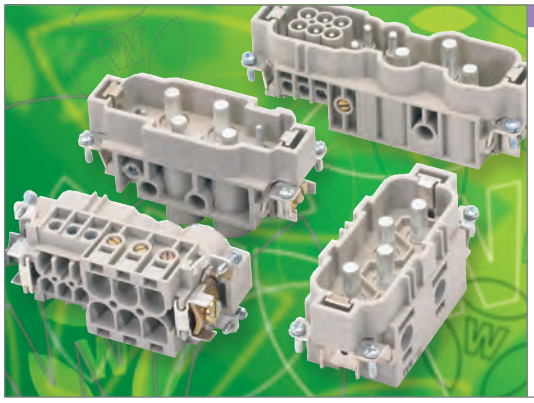
The ***revos*** heavy-duty industrial connectors are categorized according to their housings, contact inserts and connection technology. A wide range standard program, as well as modular components that can be combined, as required, is available:

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

revos BASIC

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

revos POWER



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

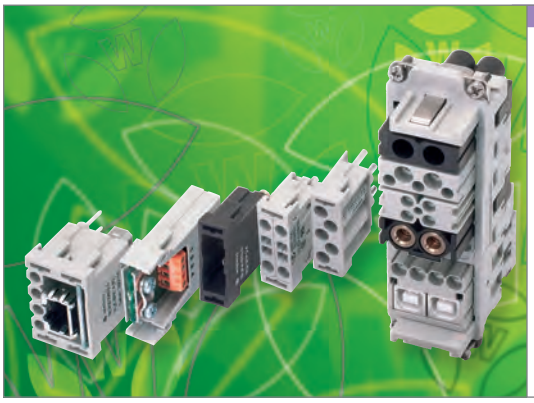
revos HD

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

revos DD

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

revos FLEX



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

revos MINI

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

revos Ex

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

revos IT

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

Power supplies
wipos

DC UPS module
wipos

Lightning and overvoltage protection
wietap

Whenever current is flowing and signals are processed, the ***interface*** products from Wieland Electric show their unique strength. With the side offering of relays, the components for power supply and overvoltage protection as well as the transfer and analog components, each switch cabinet can be adequately equipped.

wipos power supply

Generation of a 24 V control voltage can be realized through the tough ***wipos*** power supply. The devices are designed for a wide temperature range of –25 °C to +70 °C and are approved worldwide.

wipos DC UPS module

Buffering the 24 V DC supply up to 30 A. Connection of standard lead batteries in the range from 2 to 12 Ah. An integrated battery test and a temperature range from –40 °C to +70 °C round out this product.

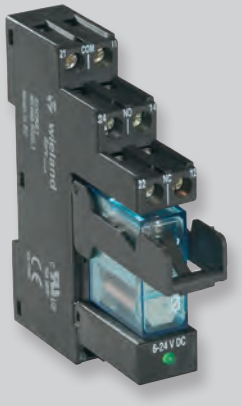
wietap
lightning and overvoltage protection

Lightning strikes in buildings have far-reaching repercussions in the installation, which can often lead to power failures and down times. With lightning and overvoltage modules from Wieland, a complete fusing can be realized. These devices fulfil the highest requirements for current load capacity. The pluggable snap-

interface

Electronic components for devices or control systems

Pluggable coupling relays ***flare*** MOVE



Measuring and monitoring relays ***flare*** CONTROL

Analog isolation amplifier ***cores***

in mechanism enables quick module exchange and satisfies the highest shock and vibration requirements in operation.

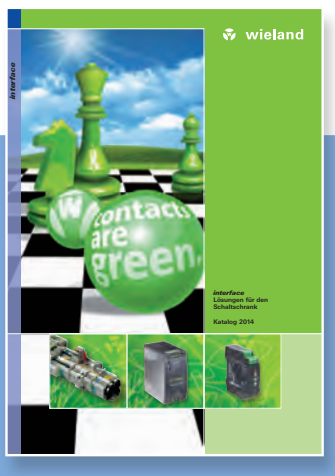
flare MOVE **Pluggable coupling relays**
Multifaceted coupling functions can be realized with the wide product range of the ***flare*** MOVE series. Pluggable coupling relays are also available with high shock and vibration approvals in various versions.

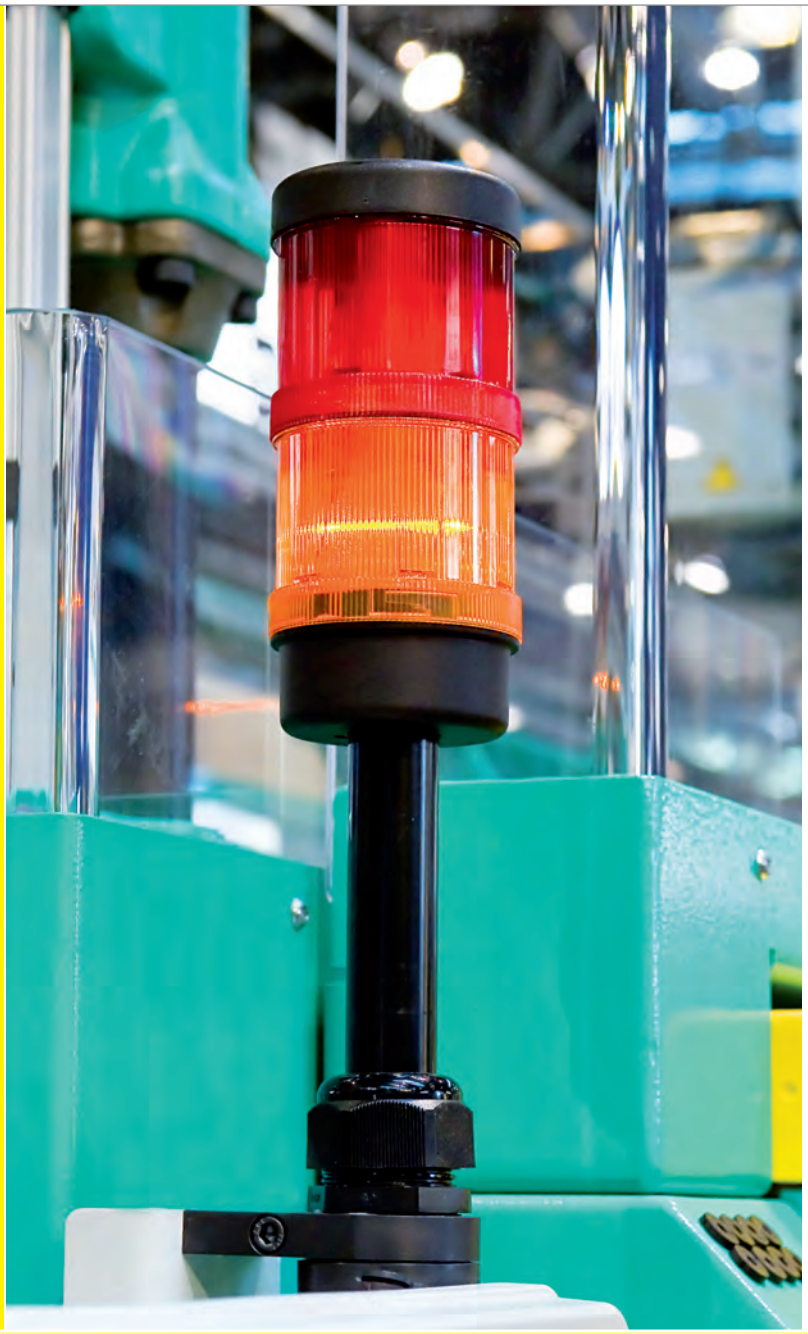
flare CONTROL
Measuring and monitoring relays
Whether voltage, current, phase or temperature monitoring: single monitoring functions can be reliably and independently realized by Wieland measuring and monitoring relays.

cores **Analog isolation amplifier**
Clean electrical isolation of control signatures can be very flexibly and easily guaranteed through the cores product series. This is especially important when sensors with longer wires are connected in the switch cabinet.

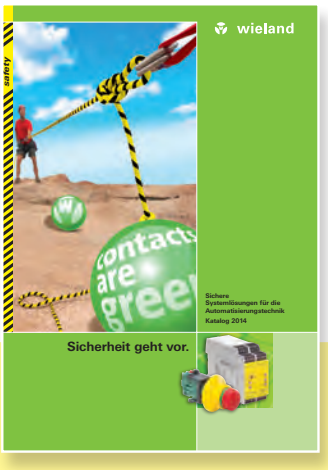
More information is available in the catalog „*interface* – Solutions for the control cabinet".

Order No. 0800.0





Safe signal acquisition
sensor® PRO



More information is available in the „Safety first“ catalog.

Order No. 0860.1

safety
Safety is a matter of confidence

Universal safety relays
safe RELAY

Modular safety modules
samos®

Compact safety controllers
samos® PRO

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

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

Wieland **Hotline** and consultation

Hotline – one call is all it takes

Naturally our service employees are available to you at any time.

Industrial Automation - Electromechanical

Hotline **+49 951 9324-991**
E-Mail **AT.TS@wieland-electric.com**

Industrial Automation - Electronics

Hotline **+49 951 9324-995**
E-Mail **AT.TS@wieland-electric.com**

Safety

Hotline **+49 951 9324-999**
E-Mail **safety@wieland-electric.com**

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

Visit our e-catalog at
http://eshop.wieland-electric.com

Our subsidiaries

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

USA
Wieland Electric Inc.
North American Headquarters
2889 Brighton Road
Oakville, Ontario L6H 6C9
Phone +1 905 8298414
Fax +1 905 8298413
www.wielandinc.com

CANADA
Wieland Electric Inc.
North American Headquarters
2889 Brighton Road
Oakville, Ontario L6H 6C9
Phone +1 905 8298414
Fax +1 905 8298413
www.wieland-electric.ca

GREAT BRITAIN
Wieland Electric Ltd.
Riverside Business Centre,
Walnut Tree Close
GB-Guildford/Surrey GU1 4UG
Phone +44 1483 531213
Fax +44 1483 505029
sales.uk@wieland-electric.com

FRANCE
Wieland Electric SARL.
Le Céramê Hall 6
47, avenue des Genottes
CS 48313
95803 Cergy-Pontoise Cedex
Phone +33 1 30320707
Fax +33 1 30320714
info.adv@wieland-electric.com

SPAIN
Wieland Electric S.L.
C/ Maria Auxiliadora 2 bajos
E-08017 Barcelona
Phone +34 93 2523820
Fax +34 93 2523825
ventas@wieland-electric.com

ITALY
Wieland Electric S.r.l.
Via Edison, 209
I-20019 Settimo Milanese
Phone +39 02 48916357
Fax +39 02 48920685
info.italy@wieland-electric.com

BELGIUM
ATEM-Wieland Electric NV
Bedrijvenpark De Veert 4
B-2830 Willebroek
Phone +32 3 8661800
Fax +32 3 8661828
info.belgium@wieland-electric.com

DENMARK
Wieland Electric A/S
Vallørækken 26
DK-4600 Køge
Phone +45 70 266635
Fax +45 70 266637
sales.denmark@wieland-electric.com

SWITZERLAND
Wieland Electric AG
Harzachstrasse 2b
CH-8404 Winterthur
Phone +41 52 2352100
Fax +41 52 2352119
info.swiss@wieland-electric.com

POLAND
Wieland Electric Sp. Zo.o.
Św. Antoniego 8
62-080 Swadzim
Phone +48 61 2225400
Fax +48 61 8407166
office@wieland-electric.pl

CHINA
Wieland Electric Trading
Unit 2703
International Soho City
889 Renmin Rd., Huang Pu District
PRC- Shanghai 200010
Phone +86 21 63555833
Fax +86 21 63550090
info-shanghai@wieland-electric.com

JAPAN
Wieland Electric Co, Ltd.
Nisso No. 16 Bldg. 7F
3-8-8 Shin-Yokohama,
Kohoku-ku
Yokohama 222-0033
Phone +81 45 473 5085
Fax +81 45 470 5408
info-japan@wieland-electric.com

Informational material for downloading from our websites

wieland

podis®

Headquarters:
Wieland Electric GmbH
Brennerstraße 10 – 14
96052 Bamberg, Germany

Sales Center:
Wieland Electric GmbH
Benzstraße 9
96052 Bamberg, Germany

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

Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
  - Screw, tension spring or push-in connection technology
  - Wire cross sections up to 300 mm²
  - Numerous special functions
  - Software solutions interfacing to CAE systems
- Safety
  - Safe signal acquisition
  - Safety switching devices
  - Modular safety modules
  - Compact safety controllers
  - Application consulting and training
- Network engineering and fieldbus systems
  - Remote maintenance via VPN industrial router and VPN service portal
  - Industrial Ethernet switches
  - PLC and I/O systems, standard and increased environmental conditions
- Interface
  - Power supply units
  - Overvoltage protection
  - Coupling relays, semiconductor switches
  - Timer relays, measuring and monitoring relays
  - Analog coupling and converter modules
  - Passive interfaces

Solutions for field applications

- Decentralized installation and automation technology
  - Electrical installation for wind tower
  - Fieldbus interfaces and motor starters
- Connectors for industrial applications
  - Rectangular and round connectors
  - Aluminium or plastic housings
  - Degree of protection up to IP 69K
  - Current-carrying capacity up to 100 A
  - Connectors for hazardous areas
  - Modular, application-specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
  - Main power supply connectors IP 20/IP 65 ... IP 69K
  - Bus connectors
  - Low-voltage connectors
  - Power distribution system with flat cables
  - Distribution systems
  - Room automation with KNX and wireless technology
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

0830.1 B 11/14

contacts are green.