



wieland



Innovations 2014/2015

System solutions for automation and
building system technology





SP-COP1

The device from the **samos**® PRO COMPACT product family offers all important, safe basic components in a compact design.

Features

- Width 45 mm
- 20 safe inputs
- 4 safe outputs
- USB port
- Switching power 4 A



SP-COP2

The device from the **samos**® PRO COMPACT product family offers, in addition to the safe basic functions, greater flexibility, an Ethernet interface and industrial on-board communication protocols.

Features

- Width 45 mm
- 16 safe inputs
- 4 safe outputs
- 4 safe, configurable I/O
- USB port
- Ethernet connection
- Switching power 4 A

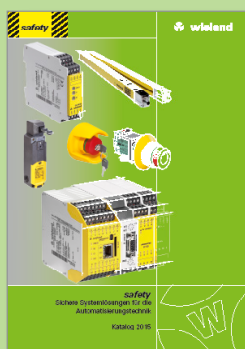


samos®PLAN 5+

is the new and innovative programming tool for **samos**® PRO COMPACT, the next generation safety controller.

Features

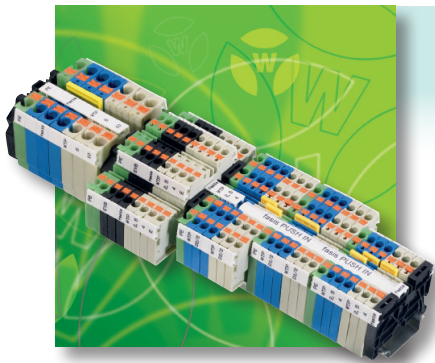
- Hardware configuration with pre-defined sensors and actuators
- Logic programming with up to 300 certified function blocks in one project
- Logic simulation and support via integrated logic analyzers
- Detailed documentation on the project, freely-configurable by the user
- Extensive diagnostic function during operation with logbook and operating hours counter



Information to our products:

0860.1 **safety**

System solutions for automation technology
or at <https://eshop.wieland-electric.com>

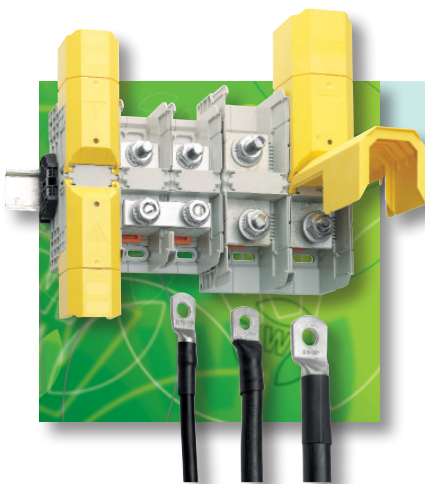


fasis WTP

Do you wish to terminate wires easily, directly and without tools? **fasis WTP** – these are DIN rail terminal blocks with push-in-connection. With an effective global concept, compact design and high-performance contact technology, **fasis WTP** minimizes the installation time and reduces inventory costs to a minimum.

Features

- Tool-free push-in connection
- Double-row, pluggable bridging duct
- Optimized portfolio – fewer terminal blocks – same functionality
- Integrated release lever

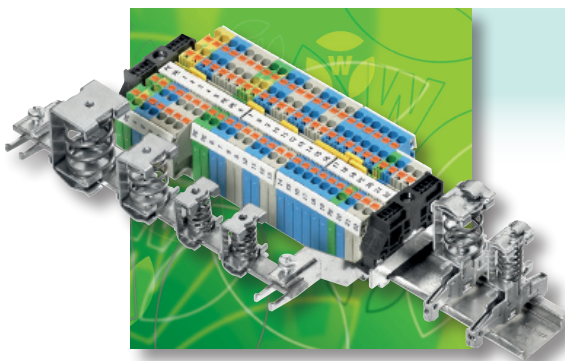


selos WRT high current terminals

The high current terminals **selos WRT** are the new generation of bolted terminals for safe and maintenance-free energy transfer. A broad range and clear focus on customer usage makes **selos WRT** a robust solution for connecting conductors to 300 mm² and flows to 520 A.

Features

- Easy to use
- Maintenance-free and vibration-free
- Mountable on supporting rails or mounting plates
- Reliable shock-proof protection



fasis WST shielding terminals

High noise immunity – simple sheathed earthing. The new generation of sheathed protection terminals WST connects low-impedance and uncomplicated cable sheathing with a diameter of 3 to 32 mm with mass or earth potential. WST is mountable on bus bars, supporting rails or mounting plates.

Features

- Multitude of mounting options
- Maintenance-free spring technology
- Expansive, low-resistance connection
- High-quality, durable choice of materials



Information to our products:
 0500.1 DIN rail terminal blocks catalog
 or at <https://eshop.wieland-electric.com>



FSC module

The innovative FSC system permits coded plugs with an almost limitless diversity. FSC simplifies implementing and distributing of signal lines in especially compact shapes in the switch cabinet panel. The inwards and outwards insertability enables fast installations. The almost unlimited diversity of codings makes them secure and error-free.

Features

- Efficient & compact
- Switch cabinet entries, signal distribution and electronics in one product
- Optimized logistics and processing thanks to pre-assembled components
- Tool-less connecting - inserted instead of wired
- No incorrect insertion possible – no specialist personnel required
- Intuitive wiring with color coding



Information to our products:
0573.1 Customer information FSC



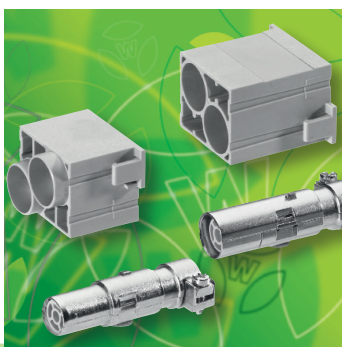
revos^{BASIC} push-in connection technology

The **revos^{BASIC}** series has now been expanded by an additional connection type.

Flexible conductors with cable end sleeves and rigid conductors of this series can be connected without tools.

Features

- Extremely short connecting time
- Gas tight, vibration and shock proof connector
- Testing also possible when inserted
- Simple manual operation

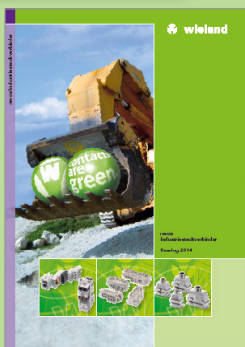


revos^{FLEX} TWIN BUS

The modular **revos^{FLEX}** system is being expanded by TWIN BUS inserts. They are extremely suitable for transferring sensitive signals in heavy-duty plug connectors. The contact carrier is designed for two plug inserts. The connection system is achieved via the tried and proven turned $\varnothing 1.6$ mm contacts, and offers a connection range of 0.5-2.5mm² with a rated voltage of 50 V and a rated current of up to 10 A.

Features

- Very large currents can be transmitted
- Mixed assembly of signal and power contacts in one plug connector
- Easy assembly and disassembly with the module frames



Information to our products:
0530.1 **revos** industrial multipole connectors
or at <https://eshop.wieland-electric.com>



ricos^{FLEX} I/O field bus system

Economic, compact and modular. The new I/O field bus system offers a continuous concept for the exchange of data between controller and field periphery. Bus couplers for EtherCAT and ETHERNET/IP are new features. Some 6 different industrial bus systems are therefore now covered.

Features

- Cost-efficiency through a highly modular design
- 2 to 8-channel modules
- Narrow module width of 12.9 mm
- Up to 64 modules can be connected to each bus coupler
- Spring tension connection terminals
- Very fast reaction time
- Individual channel inscription



wipos PS1 and wipos PS3

The dependability of the power supply has a great influence over the availability of the machine or the process. And so a robust, proven power supply structure is extremely important. At the same time, the new series is set apart by a very narrow overall width.

Features

- Durable in harsh environments
- Compact design (up to 50% smaller than comparable products)
- 120% power boost for 10 s
- Full output during 2-phase operation
- Wide voltage input
- Temperature range of -40 to +70 °C
- Lloyds Register Ship Certification (LR)

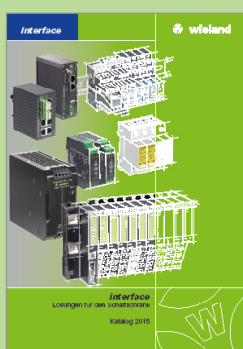


cores C2 MB-A analog buffer amplifier

The new buffer amplifier cores C2 MB-A is an expansion of the existing **cores** C2 series and offers, in addition to a universal input range, bi-polar output signals -10...+10 V and -20...+20 mA.

Features

- 3-way isolation
- Universal input range: Voltage, current, thermocouple, potentiometer or rheostat
- High accuracy via digital conversion
- Width of 17.5 mm
- Plug-in screw clamp
- Broad temperature range (-10 ... +60 °C)



Information to our products:
 0800.1 **interface** Solutions for the Control Cabinet
 or at <https://eshop.wieland-electric.com>



podis®LED

podis®LED is the reliable lighting solution for use in industrial environments. With robust housing and protection to IP65, these maintenance-free and durable lights are especially suitable for illuminating working areas and routes in plant and machinery, both inside and out.

Features

- 24 V DC connection voltage
- Flat band cable and round cable connection
- Spherical or oval light cone, elongate light cone
- Robust housing in compact design
- Broad operating temperature range (-40 ... +55 °C)

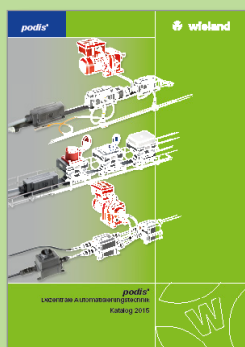


podis® UPS for emergency lighting

podis® UPS is the reliable back-up power supply for lighting and controllers that meet the tough requirements of plant and machinery. Ready for plug-in connection, the **podis® UPS** can easily be integrated into plants. At the same time, it offers the convenience of maintaining and monitoring just one battery unit and operating one emergency lighting system without additional cables in accordance with regulations. The state of the UPS, such as battery faults, can be reported to the service point via potential-free message outputs.

Features

- Emergency power supply ready for plug-in connection
- Long maintenance intervals
- Adjustable battery capacity
- Simple connections via **gesis®RST®**



Information to our products:
 0830.1 **podis®**
 Decentralized Automation
 or at <https://eshop.wieland-electric.com>



gesis®RST® MINI. Smart Connector.

Smallest installation plug connector with highest IP rating. With the new series RST® MINI, Wieland Electric opens up the 3rd dimension of successful RST® round plug connector systems.

Features

- 16 A / 400 V
- IP66/68 (3m; 2h)/69K
- Newly developed TWISTLOCK locking technology
- Diameter 19.9 mm (2 and 3-pole) Diameter 24 mm (4 and 5-pole)



M8 / M12 pre-assembled cables (April 2015)

The M8/M12 cabling system is the ideal solution for a fast and safe field installation in automation technology. Endless installation topologies are possible through various basic components.

Features

- Extensive product portfolio
- Robustness and the simplest possible handling
- Tested and certified products



M8/M12 distributor (April 2015)

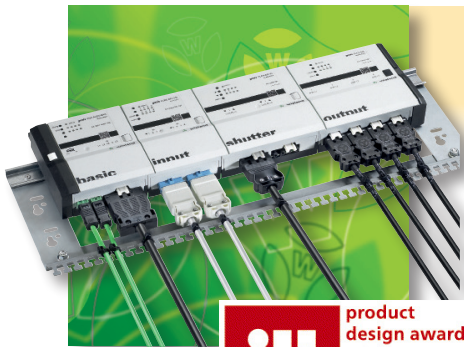
The distributor of the M8/M12 field installation program makes decentralized installation child's play. The installation effort is significantly reduced by replacing cables laid in parallel by just one single main cable.

Features

- Decentralized field installation
- Defined and standardized interfaces
- Fast, safe installation



Information to our products:
 0695.1 **gesis®RST® MINI**
Smallest pluggable installation connector
with highest IP rating
 or at <https://eshop.wieland-electric.com>



gesis[®] FLEX - the future of room automation

The modular KNX room automation system is set apart by practicality and TOP functionality, such as the convenient manual control panel, for example. Once basic module uses one address to manage six expansion modules of various functionality. The design and 100% plug-in capability of the electrical connection permits fast, error-free installation.

Features

- Basic module and intermediate feed-in
- Light control DALI and 16 A and 16 A switching C-load
- Shutter outputs for AC and DC drives
- Binary inputs
- Valve control with semiconductor output AC and DC



gesis[®] FLEX expanded functions

The **gesis**[®] FLEX-system is supplemented by stand-alone functions. The bi-directional EnOcean-KNX gateway makes available the battery-less radio technology for the KNX. Additional auxiliary functions are simply integrated using the **gesis**[®] FLEX REG housing. It facilitates rail mounted devices with up to 4 module width to be simply decentrally installed.

Features

- EnOcean gateway with 32 channels
- Housing in four versions for rail mounted devices
- KNX: DALI gateway, 1-10 V switching/dimming actuator, SMI gateway, analogue input, semiconductor switch, fan coil actuator, RCD/MCB and power supply

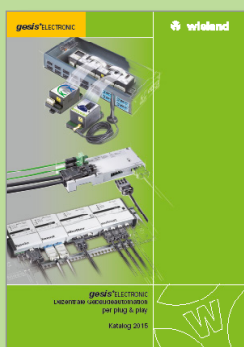


Pluggable presence detector

The pluggable presence detector permits simple and convenient integration in pluggable installations. The detector with DALI output can control 3 DALI dimming groups and one switching group. The DALI group configuration is freely-programmable. A commissioning remote control and an application remote control round out the program.

Features

- Close-meshed movement detection
- 100% pluggable
- DALI version for 3 dimming groups and 1 switching group
- Slave version for DALI and switching detectors



Information to our products:

0700.1 **gesis**[®] ELECTRONIC
 Dezentralized building installation via plug&play
 or at <https://eshop.wieland-electric.com>

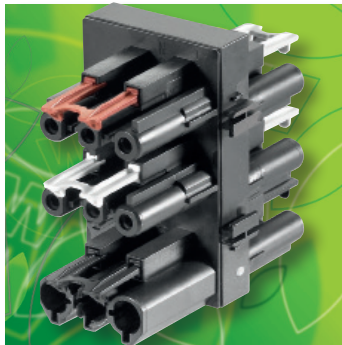


Additional codings **gesis**[®] GST18[®]

The well-known **gesis**[®] GST18[®] system is supplemented by new codings. This allows additional applications to be 100% pluggable. It is the choice of the customer for which application a coding is to be used.

Features

- Separation between applications with and without protective earth
- No pre-definition of applications
- Available for 3 – 5-poles
- Screw and spring connection



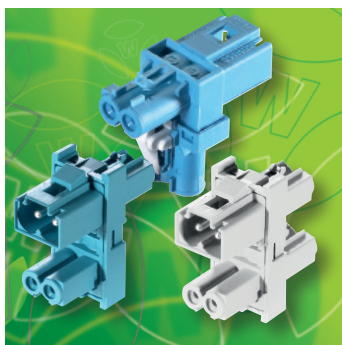
Switching distributor for **gesis**[®] GST18i3

Compact switching distributor for on/off, alternating and series switching and motion detector or switch with control light. Large distributor boxes or manually-wired circuits are superfluous.

The assignment of the outputs is easy to identify by the colors of the lockings and by the marking.

Features

- 4 distributors for 4 switchings
- No short-circuit connector required for motion detector
- Suitable for the new mounting plate
- All slots are accessible in the mounting plate



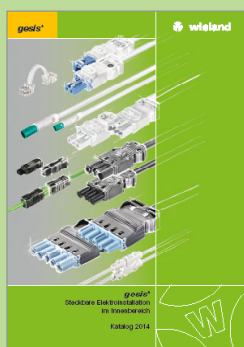
gesis[®] GST15i2 distribution blocks

T, h and H distributors for the GST15i2 system. Thus, all protection class II devices and dimming signals can be quickly connected.

The T-pieces are equipped with unlocking hooks, which allow simplified unlocking of the integrated locking when the distributor is connected to a device.

Features

- Black, white, light and pastel blue
- h and H distributors suitable for mounting plates
- T-piece with unlocking mechanism



Information to our products:
 0670.1 **gesis**[®]
 Pluggable electrical installation for indoors
 or at <https://eshop.wieland-electric.com>

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Hotline – one call is all it takes

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

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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