




gesis® RAN

# **DISTRIBUTION** BOXES

Key component for the efficient and sustainable electrical installation of tomorrow.

A portrait of Tobias Hennemann, a man with short brown hair and a beard, smiling. He is wearing a dark blue suit jacket over a white shirt with a blue patterned collar. The background is a light gray with diagonal white stripes.

”The Wieland distribution boxes support a smart building right down to the installation level. They ensure simple decentralized handling of the automation systems required to increase energy efficiency and help to ensure that the electrical installation also earns the title of Smart Building Ready.“

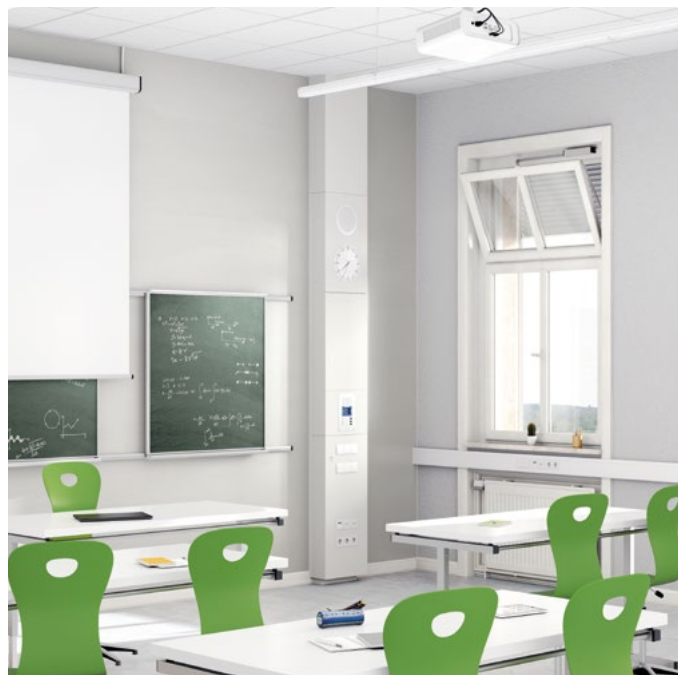
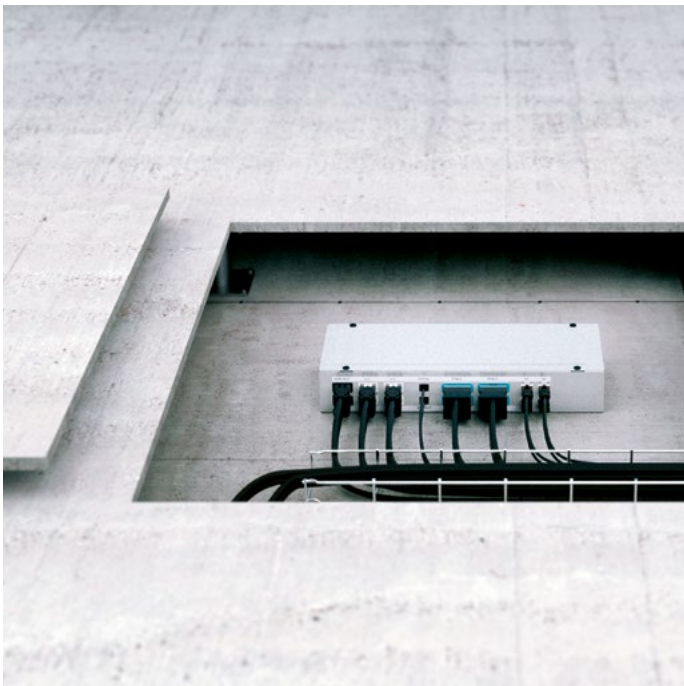
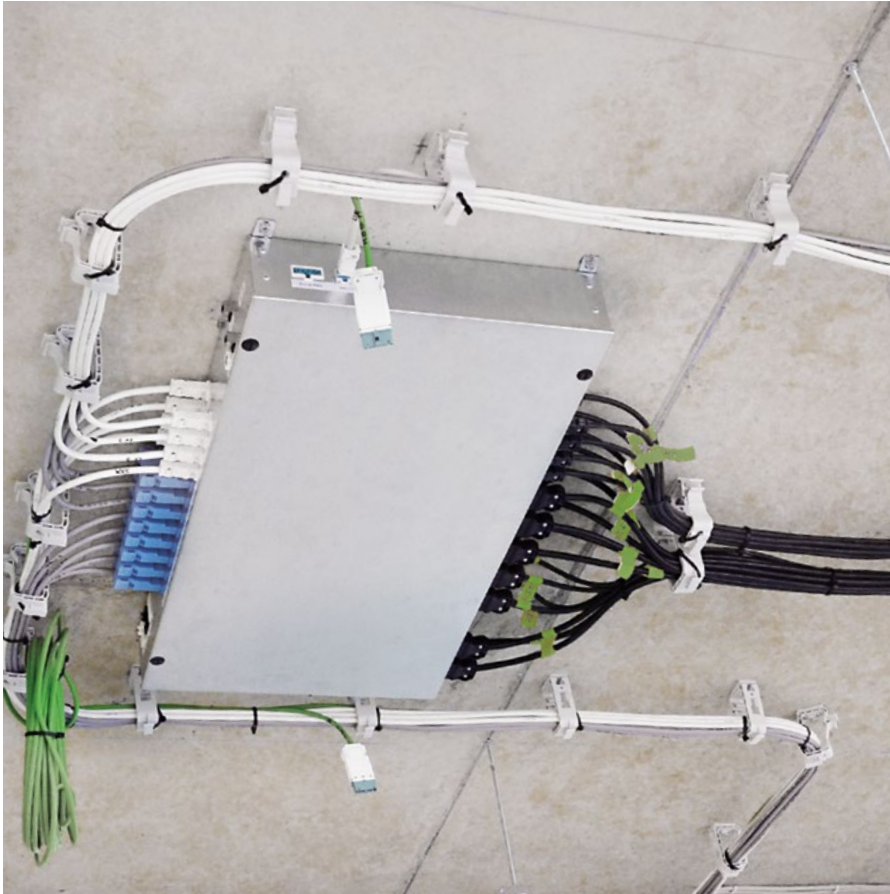
**TOBIAS HENNEMANN**

Product Manager System Distributor

# DISTRIBUTION BOXES

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# SMART DISTRIBUTION BOXES FOR FLEXIBLE BUILDINGS.

Whereas in conventional installations, all components are wired to the main distribution board in a star configuration, which wastes a lot of time and resources, at Wieland we rely on smart decentralized installation.

We offer the basis for a smart, decentralized installation of the future through infrastructure cabling in which our flat cable system acts as an energy bus system and allows a three-phase power supply right up to the consumer with decentralized pluggable taps.

Where are the required building/room automation devices installed in a modern, decentralized and future-oriented electrical installation? We also offer a solution for this: distribution boxes. Our system distribution boxes offer the perfect installation space for a wide range of applications, from pure power and data distribution to room automation applications and complete room solutions in the form of service poles.

Many electrical planners and installers have already recognized the advantages of decentralized pluggable electrical installations, as they not only save resources, protect the environment and reduce the fire load, but also significantly reduce the overall costs of a property.

## WE OFFER:

- + System distribution box
- + Room automation
- + Building automation
- + MSR distribution box
- + Load distributor and measurement distributor
- + Distribution box for outdoor use
- + Energy and signal distribution
- + Small distributor



### PLANNING

From conceiving the initial concept to inviting tenders, our experienced staff will accompany your project on site and in Bamberg.



### INVITING TENDERS

We will help you define and specify the distribution boxes and draw up the tender text and a cost estimate.

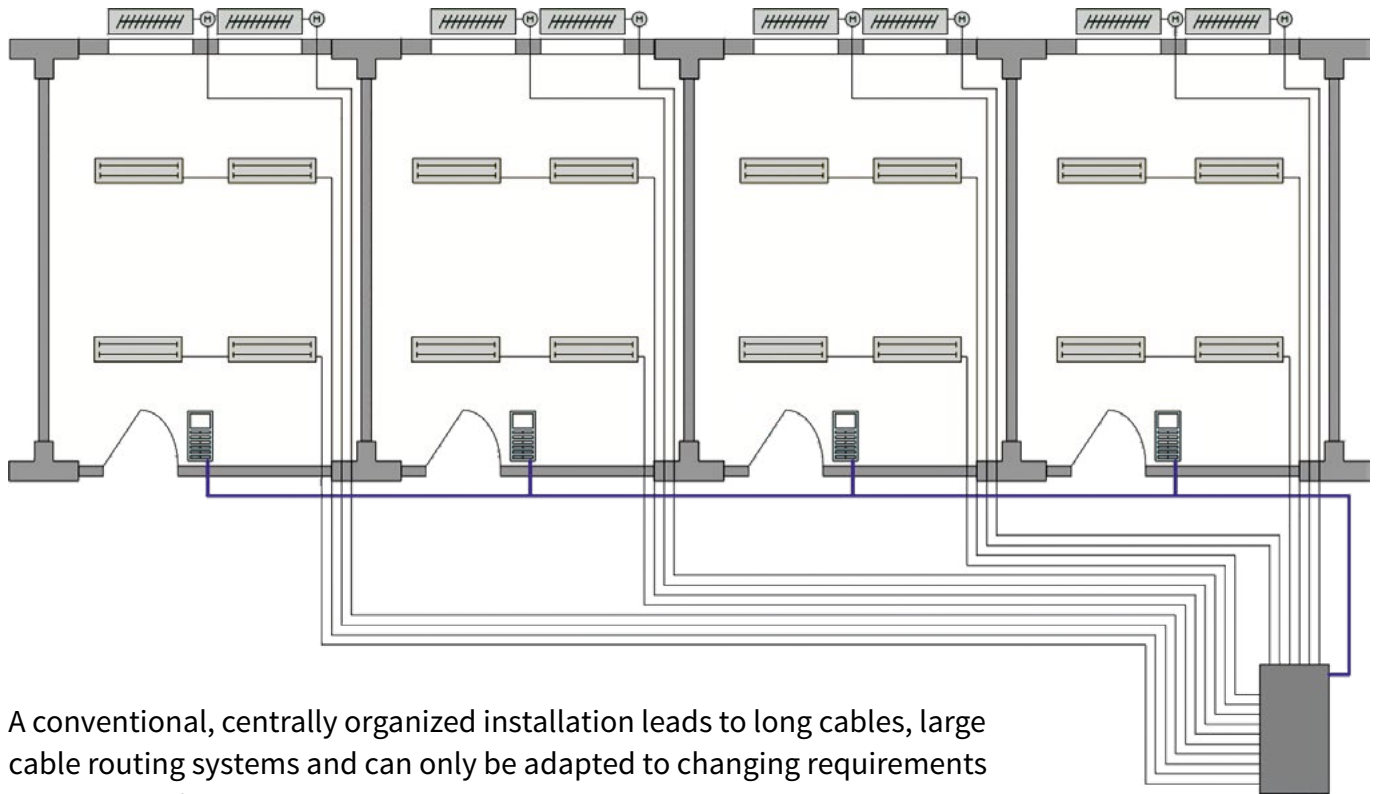


### FINALIZATION

We will manufacture your distribution boxes according to the plans and deliver them order-ready, together with other components, to your desired address.

# CENTRAL ELECTRICAL INSTALLATION

In practice, the complex installation with central control cabinet means high material, time and cost input.

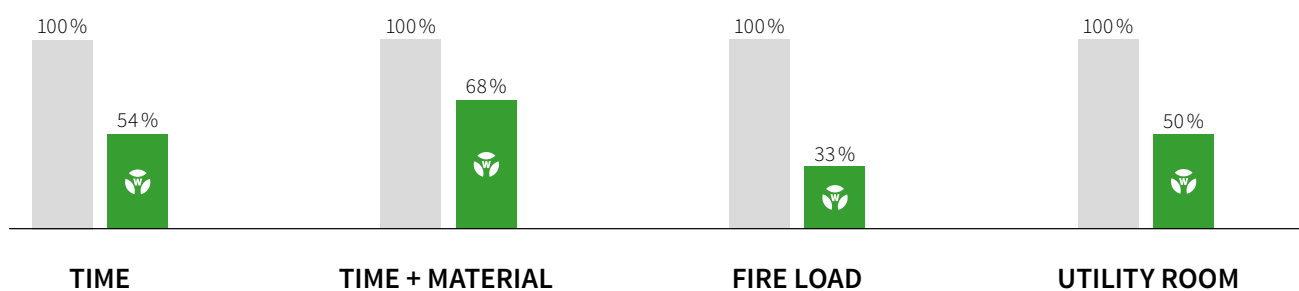


A conventional, centrally organized installation leads to long cables, large cable routing systems and can only be adapted to changing requirements with great effort.

## COMPARISON CENTRAL VS. DECENTRALIZED INSTALLATION

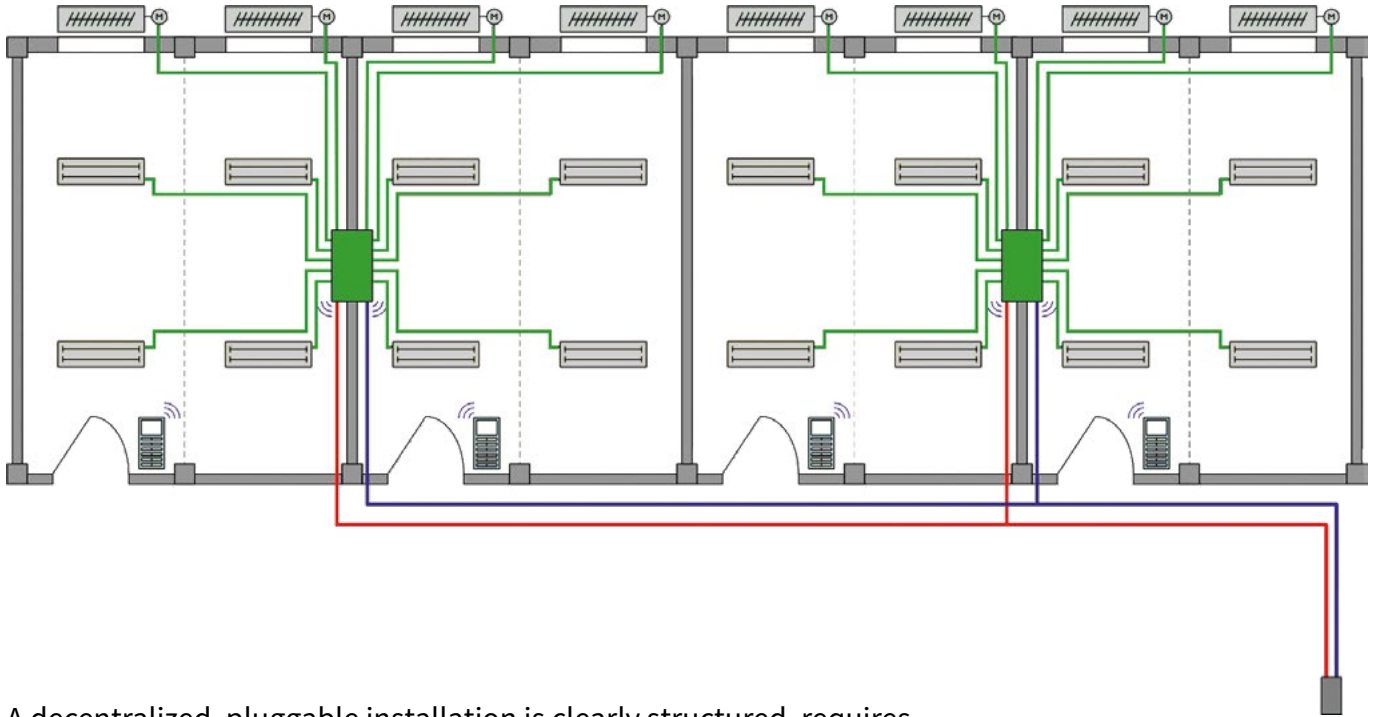
■ Centralized installation

■ Decentralized installation



# DECENTRAL ELECTRICAL INSTALLATION

The clever installation solution is decentralized and pluggable!



A decentralized, pluggable installation is clearly structured, requires resources and remains flexible over the life of the building. This is sustainable state-of-the-art electrical installation.

## ADVANTAGES DECENTRALIZED PLUGGABLE INSTALLATION

### Sustainable

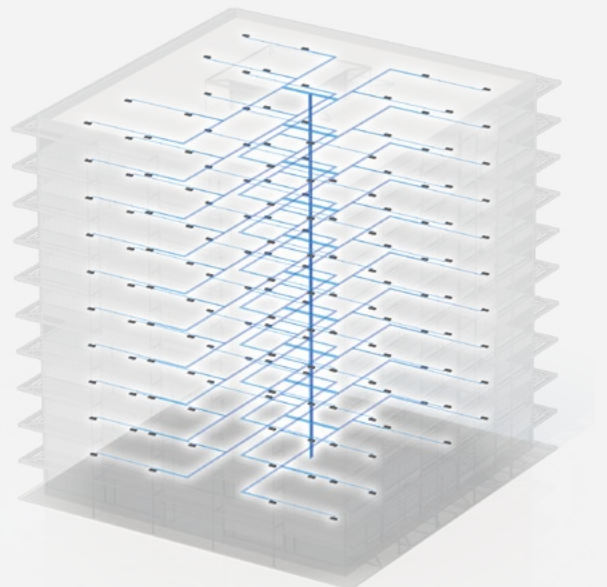
- Reduction in cable length of up to 70 %
- Copper savings of up to 50 %
- Reduction of CO<sub>2</sub> emissions
- Reuse of the components

### Flexible

- Fast, flexible conversion
- Easy extension
- Fast, uncomplicated replacement when servicing is required

### Safe

- Industrially prefabricated quality
- 100 % routine testing
- Avoidance of mismatching due to coding (no more time-consuming troubleshooting due to clamping errors)







# SYSTEM DISTRIBUTION BOXES FOR **DECENTRALIZED + PLUGGABLE** ELECTRICAL INSTALLATION.

In a precisely planned building project with recurring room units such as Office buildings, hotels and hospitals can be equipped with a decentralized pluggable version with Wieland distribution boxes. For this purpose, the distributor housings are fitted with coded plug connectors. All supply and return lines as well as connecting cables, including the consumers, are industrially assembled ready to plug in and only need to be connected to the distribution box - on-site wiring is no longer necessary.

## SMART BUILDING READY – IT COULDN'T BE EASIER

Whether in offices, administrative buildings, municipal buildings, airports, and hospitals, etc., few building owners these days do not embrace energy-saving building automation in buildings that are used commercially. More and

more users now regard a decentralized arrangement as the optimum solution for control devices. The system distribution boxes are precisely made to the needs of the application and ideally assembled in suspended ceilings or

raised floors. Not only is installation much quicker, but there is also the added benefit that the commissioning checks take far less time because the units are assembled and pre-tested at the factory.



### APPLICATION OF DECENTRALIZED INSTALLATION

- Workplace supply
- Energy and data distribution
- Lighting and blind controls
- Building automation
- Room automation
- and many more



### PLANNING

- Small units that can be planned effectively
- Reduction to a few types per building
- Customizable
- No terminal diagrams of individual wires necessary
- Promotion of clear management structures
- Reduction in overall cable lengths
- Support from Wieland



### SAFE INSTALLATION

- High degree of prefabrication
- Short assembly times
- Pre-integration and clear interfaces
- Very little documentation work (plans are included with the delivery)



### INTERFACES BETWEEN THE CONTRACTORS

- Thanks to the pluggability, cabling, installation and commissioning are easy to separate
- Clear limits of responsibility
- Good coordination of companies possible
- Simple construction process from cabling to commissioning
- Simple analysis in the event of a fault thanks to pluggability



### OPERATION

- Easy to integrate changes
- Easy fault localization thanks to pluggability
- Errors can be rectified by quickly replacing functional units
- Easy expansions with good pre-planning

# SYSTEM DIVERSITY FOR YOUR APPLICATIONS.

We supply the right system distribution box for every application. Alongside our standard distributors, we also make tailored customized system distribution boxes. We would be pleased to advise you.



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## SPZ DISTRIBUTION BOXES

Special

This distribution box is ideal if things may get a bit damp in its vicinity. Choose the plastic housing from a standard product range and all the necessary components can be integrated.

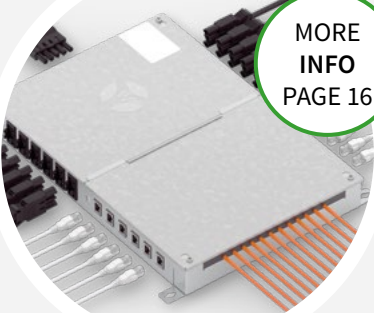


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## WIV DISTRIBUTION BOXES

Installation distribution box

This distribution box enables exhibition stands, for example, to be electrified quickly and ensures safe and reliable power distribution. Thanks to our gesis® and RST® installation connector systems, the power distributor can be installed using the plug & play principle.



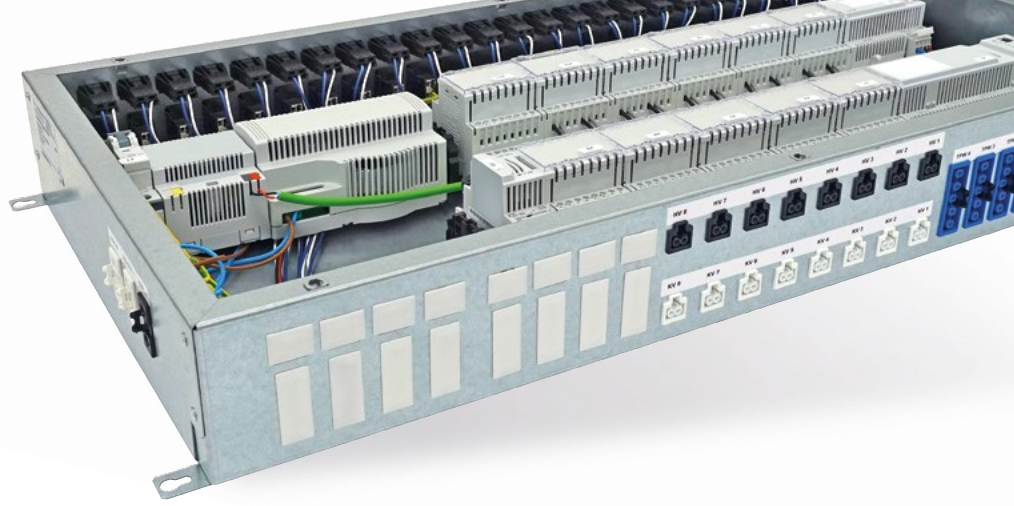
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## CPO DISTRIBUTION BOXES

Consolidation Point

The consolidation point forms the decentralized distribution point for switching from permanent to flexible installation. The consolidation point is used for decentralized power, data and signal distribution. If necessary, it also accommodates protective/switching devices.





### MSR DISTRIBUTION BOXES

Instrumentation and control

This distribution box accommodates all the I&C technology components that are needed for a story of a building. We work closely with the I&C contractors involved in a building project.



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### RAU DISTRIBUTION BOXES

Room automation

This distribution box covers defined areas with I/Os to automate lighting, blinds, and room temperature. It accommodates all the I/Os of a room unit and can be supplemented with power supply units, for example.



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### INS DISTRIBUTION BOXES

Installation column

This distribution box model is used mainly in school renovation/construction. The installation column is the link between the electrical installation and your modern room automation needs.

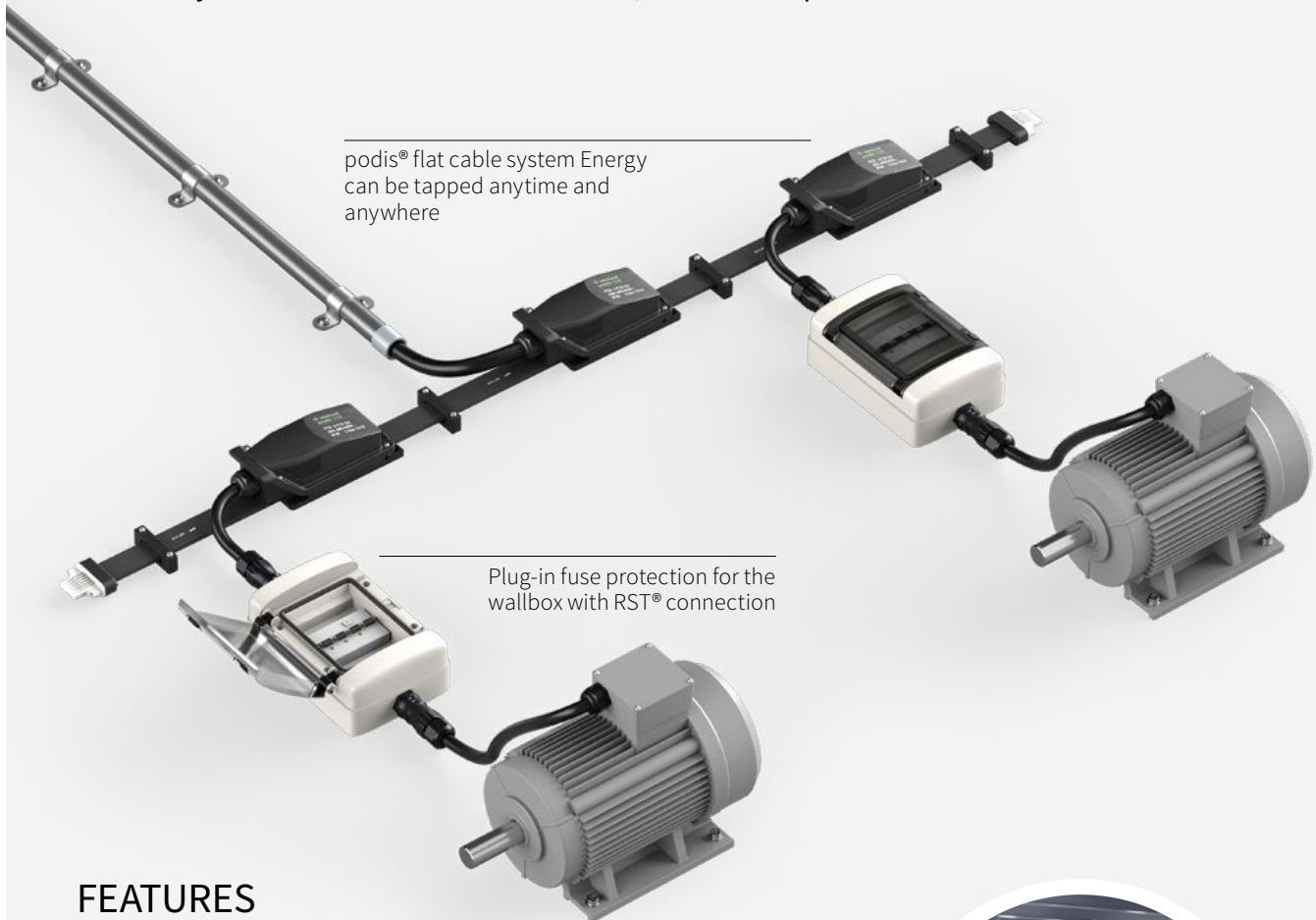


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# DISTRIBUTION BOX SPZ

## SPECIAL APPLICATIONS

A nationwide and reliable charging infrastructure is crucial for the success of the transport transition towards more electromobility. This also includes equipping underground garages, multi-storey parking lots and parking lots with sufficient e-charging stations. With its decentralized power distribution system podis®, Wieland Electric makes it possible to connect a large number of charging stations with just one supply line. Ideally, the wallboxes are protected with the SPZ distribution box, which is easily plugged in thanks to its RST® connection. This effectively saves resources: installation time, cables and space in the distribution cabinet.



## FEATURES

- + Decentralized fuse box
- + Available as a kit
- + Increased protection rating
- + Pluggable installation



# DISTRIBUTION BOX SPZ · OVERVIEW



<b>Designation</b>	SPZ	EVC kit-R25-1/1	4P-LS-C16-R25-1/1	4P-LS-C32-R25-1/1	4P-LS-B16-R25-1/1	4P-LS-B32-R25-1/1
<b>Part No.</b>		98.554.1200.0	98.554.1200.1	98.554.1200.2	98.554.1200.3	98.554.1200.4

Housing material	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Rated voltage	400V	400V	400V	400V	400V	400V
Rated current	-	16A	32 A	16A	32 A	32 A
Protection class	IP65	IP65	IP65	IP65	IP65	IP65
Type of integrated switching	Energy distribution	Energy distribution	Energy distribution	Energy distribution	Energy distribution	Energy distribution
Mounting options	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*	-5 °C	-5 °C	-5 °C	-5 °C	-5 °C	-5 °C
Ambient temperature max.*	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C

## Dimensions (external measurements)

Depth (mm)	260	260	260	260	260	260
Width (mm)	143	143	143	143	143	143
Height (mm)	102	102	102	102	102	102

## Input

Number of inputs	1	1	1	1	1	1
Input type	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC
Coding inputs	Concrete gray	Concrete gray	Concrete gray	Concrete gray	Concrete gray	Concrete gray
Type of protective/switching device	Self-assembly	MCB 3+N C16 A/6 kA	MCB 3+N C32 A/6 kA	MCB 3+N B16 A/6 kA	MCB 3+N B32 A/6 kA	MCB 3+N B32 A/6 kA

## Outputs

Number of outputs	1	1	1	1	1	1
Output type	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC
Installation connector type	RST25i5	RST25i5	RST25i5	RST25i5	RST25i5	RST25i5
Coding outputs	Concrete gray	Concrete gray	Concrete gray	Concrete gray	Concrete gray	Concrete gray



<b>Designation</b>	SPZ	4P-FI-C16-A-R25-1/1	4P-FI-C32-A-R25-1/1	4P-FI-B16-A-R25-1/1	4P-FI-B32-A-R25-1/1
<b>Part No.</b>		98.554.1200.6	98.554.1200.7	98.554.1200.8	98.554.1200.9

Housing material	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Rated voltage	400V	400V	400V	400V	400V	400V
Rated current	16A	32 A	16A	32 A	16A	32 A
Protection class	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Type of integrated switching	Energy distribution	Energy distribution	Energy distribution	Energy distribution	Energy distribution	Energy distribution
Mounting options	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*	-5 °C	-5 °C	-5 °C	-5 °C	-5 °C	-5 °C
Ambient temperature max.*	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C

## Dimensions (external measurements)

Depth (mm)	260	260	260	260	260	260
Width (mm)	143	143	143	143	143	143
Height (mm)	102	102	102	102	102	102

## Input

Number of inputs	1	1	1	1	1	1
Input type	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC
Installation connector type	RST25i5	RST25i5	RST25i5	RST25i5	RST25i5	RST25i5
Coding inputs	Concrete gray	Concrete gray	Concrete gray	Concrete gray	Concrete gray	Concrete gray
Type of protective/switching device	RCBO 3+N C16 A/0.03 A/6 kA	RCBO 3+N C32 A/0.03 A/6 kA	RCBO 3+N B16 A/0.03 A/6 kA	RCBO 3+N B32 A/0.03 A/6 kA	RCBO 3+N B32 A/0.03 A/6 kA	RCBO 3+N B32 A/0.03 A/6 kA

## Outputs

Number of outputs	1	1	1	1	1	1
Output type	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC	RST®CLASSIC
Installation connector type	RST25i5	RST25i5	RST25i5	RST25i5	RST25i5	RST25i5
Coding outputs	Concrete gray	Concrete gray	Concrete gray	Concrete gray	Concrete gray	Concrete gray

\*Condensation must be excluded

Subject to technical modifications



# DISTRIBUTION BOX WIV

## TEMPORARY ELECTRICAL INSTALLATION

Our fully pluggable surface-mounted installation distribution boxes are ideal for trade fairs, events and similar occasions where safe and extremely fast electrical installation is required. They are optionally equipped with gesis® MINI, gesis® CLASSIC, RST® CLASSIC and socket outlets with earthing contact, which are protected by residual current circuit breakers and miniature circuit breakers. The distribution boxes are designed in accordance with IEC 61439. Further installation can be carried out in accordance with DIN VDE 0100-711 and DIN 0100-740.

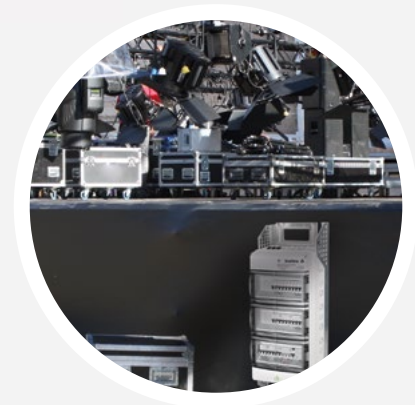


### PLACE OF USE

- Exhibition stand construction, lighting and stage technology
- Construction sites indoors and with RST® in protected outdoor areas
- Fairground rides and stalls
- Stores and workshops
- Event design and temporary lighting installations

### THE BENEFITS FOR YOU

- All outputs are pluggable
- Easy to handle and install
- Switchable and non-switchable outputs
- Reduced installation time
- Quick and flexible installation thanks to cable assemblies



## FEATURES

- + Robust polycarbonate housing
- + All distributors can be delivered with measuring device
- + Distribution boxes can be combined with each other
- + Universal mounting bracket
- + Power supply via CEE or RST® POWER connection

# GESIS® WIV · OVERVIEW



Designation	gesis® WIV	GST15 20kVA	GST15 40kVA	GST18 20kVA	GST18 20kVA	GST18 40kVA	GST18 40kVA	RST20 20kVA	RST20 40kVA
Part No.		93.053.4001.0	93.053.4101.0	93.053.6009.0	93.053.6010.0	93.053.7006.0	93.053.7007.0	93.053.9001.0	93.053.9101.0
Part No. with measuring device		93.053.4001.1	93.053.4101.1	93.053.6009.1	93.053.6010.1	93.053.7006.1	93.053.7007.1	93.053.9001.1	93.053.9101.1

## Outputs

Switchable	13 x 1-phase 230 V 1 x 3-phase 230/400 V	9 x 1-phase 230 V 1 x 3-phase 230/400 V	13 x 1-phase 230 V 1 x 3-phase 230/400 V	6 x 1-phase 230 V 3 x 3-phase 230/400 V	9 x 1-phase 230 V 1 x 3-phase 230/400 V	6 x 1-phase 230 V 3 x 3-phase 230/400 V	6 x 1-phase 230 V 2 x 3-phase 230/400 V	6 x 1-phase 230 V 2 x 3-phase 230/400 V
Non-switchable	2 x 1-phase 230 V 2 x Protective contact socket	3 x 1-phase 230 V 1 x Protec- tive contact socket	2 x 1-phase 230 V 2 x Protec- tive contact socket	3 x 1-phase 230 V 1 x 3-phase 230/400 V 2 x Protec- tive contact socket	3 x 1-phase 230 V 1 x Protec- tive contact socket	3 x 1-phase 230 V 1 x Protec- tive contact socket	3 x 1-phase 230 V 1 x 3-phase 230/400 V	2 x 1-phase 230 V
Connector system	gesis® MINI	gesis® MINI	gesis® CLASSIC	gesis® CLASSIC	gesis® CLASSIC	gesis® CLASSIC	RST® CLASSIC	RST® CLASSIC

## Input

Connected load	20 kVA	40 kVA	20 kVA	20 kVA	40 kVA	40 kVA	20 kVA	40 kVA
Connected current (max. back-up fuse)	RST input 32 A	CEE input 63 A	RST input 32 A	RST input 32 A	CEE input 63 A	CEE input 63 A	RST input 32 A	CEE input 63 A

## Routing with

		RST50			RST50	RST50		RST50
--	--	-------	--	--	-------	-------	--	-------

## Protection class

Unplugged	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Stuck	IP40	IP40	IP40	IP40	IP40	IP40	IP44	IP44

## Dimensions

Depth (mm)	155	155	155	155	155	155	155	155
Width (mm)	315	315	315	315	315	315	315	315
Height without attachments (mm)	450	450	450	600	450	600	450	450
Height with measuring device without attachments (mm)	600	600	600	750	600	750	600	600

## GENERAL TECHNICAL DATA FOR THE SERIES

Housing	Robust polycarbonate
Housing color	Electric gray
Switchgear and controlgear assemblies	IEC 61439
Output protection	RCD-4-pole/40 A/30 mA, MCB-B16
Routing protection	MCB-B32
Additional feature	All distributors can be delivered with measuring device
Ambient conditions	Version with gesis® MINI and gesis® CLASSIC for dry rooms Version with RST® CLASSIC for protected outdoor areas
Mounting method	Wall mounting
Circuit diagram, dimensional drawing, parts list	Included in delivery



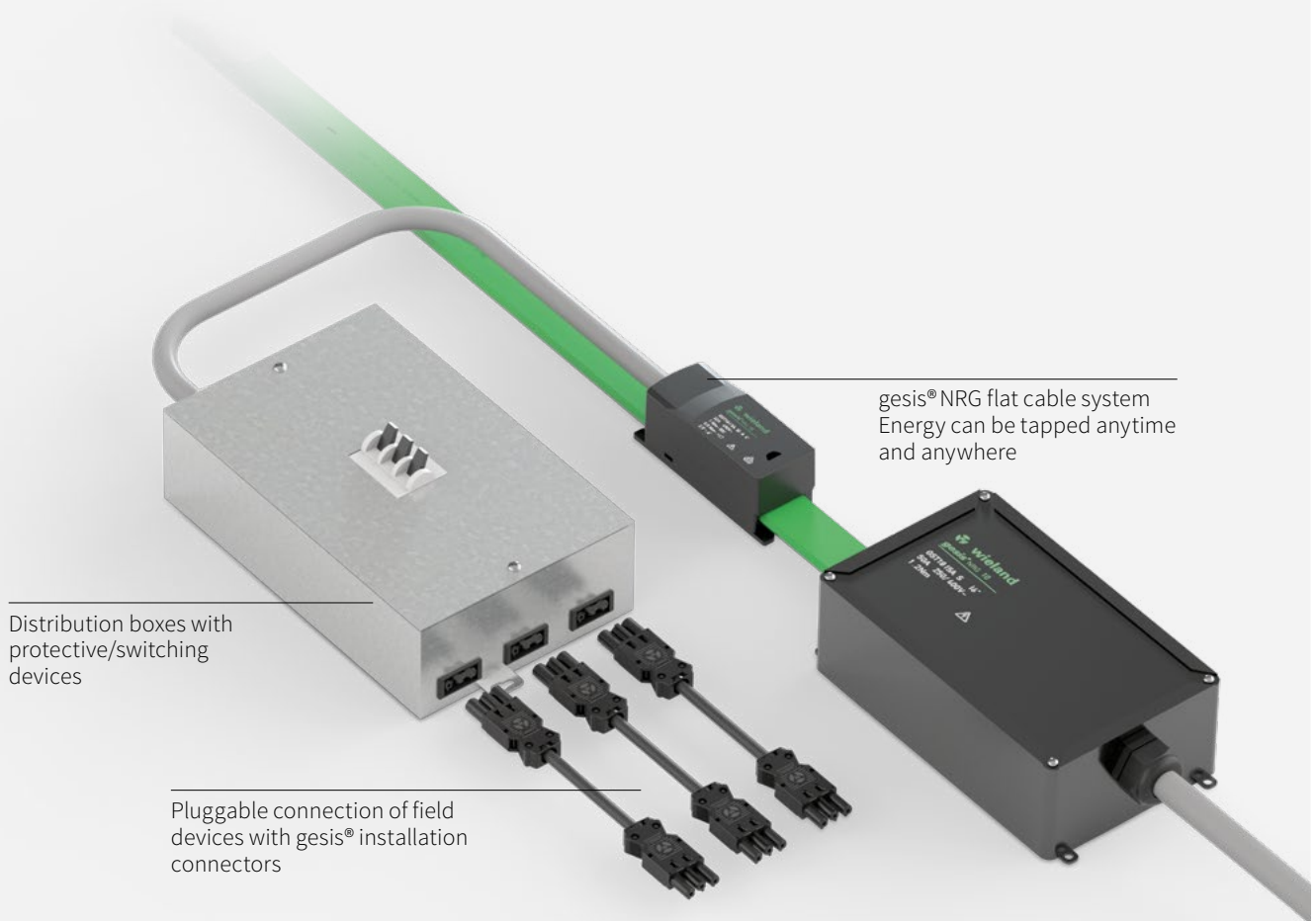
### MEASURING DEVICE AS OPTIONAL EXTRA

Distribution boxes with measuring devices have the following features:

- Measuring device integrated into the front of the distributor
- Multilingual display for reading and configuring
- Display of over 30 electrical measurements, such as electricity, voltage, current power, and apparent, active, and reactive energy

# DISTRIBUTION BOX CPO FOR DECENTRALIZED ENERGY DISTRIBUTION

With the Wieland distribution boxes, you can distribute energy in a space-saving and decentralized manner in the floor or ceiling. Our distribution boxes for power distribution are available with or without protective/switching devices to suit your application.



## FEATURES

- + Quick and flexible installation thanks to cable assemblies
- + Pluggable outlets from the distribution box to the consumer
- + Three-phase supply up to just before the consumer
- + Fuse elements directly on site





# DISTRIBUTION BOX CPO · OVERVIEW



Designation	CPO	1P16A-LS 2 x GST	BST14 1/6	1P 1 x GST/6 x GST	3P16A/3GST LS-FL	3P16A/6GST LS-FL
Part No.		98.530.0100.0	98.530.0101.0	98.530.0200.0	98.530.1200.0	98.530.1201.0
Housing material		Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized
Rated voltage		230 V	50 V	230 V	400 V	400 V
Rated current		16 A	3 A	20 A	16 A	16 A
Degree of protection (IP)		IP30	IP30	IP30	IP30	IP30
Type of integrated switching		Energy distribution	Energy distribution	Energy distribution	Energy distribution	Energy distribution
Mounting options		Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*		-5 °C	-5 °C	-5 °C	-5 °C	-5 °C
Ambient temperature max.*		+40 °C	+40 °C	+40 °C	+40 °C	+40 °C

## Dimensions (external measurements)

Depth (mm)	82	50	50	80	80
Width (mm)	200	140	350	250	250
Height (mm)	66	90	160	150	150

## Input

Number of inputs	1	1	1	1	1
Input type	Cable whip with cable gland	gesis® NV	gesis® CLASSIC	Flat cable adapter with cable gland	Flat cable adapter with cable gland
Installation connector type	-	BST14i2	GST18i3	-	-
Coding inputs	-	black/green	black	-	-

## Outputs

Number of outputs	2	6	6	3	6
Output type	gesis® CLASSIC	gesis® NV	gesis® CLASSIC	gesis® CLASSIC	gesis® CLASSIC
Installation connector type	GST18i3	BST14i2	GST18i3	GST18i3	GST18i3
Coding outputs	white	black/green	black	black	black
Taps per phase conductor	2	6	6	1	2
ROUTING	No	No	No	No	No
Type of protective/switching device	MCB B16 A	-	-	MCB C16 A	MCB C16 A
Number of securing elements	1	-	-	3	3



Designation	CPO	3P 2 x Ver/12 x GST	3P 2 x GST/12 x GST	3P Ver/12xGST	3P Ver/6 x GST	3P GST/6 x GST
Part No.		98.530.1202.0	98.530.1202.1   .2	98.530.1202.4   .5	98.530.1203.0	98.530.1203.1

Housing material	Sheet steel, galvanized	Sheet steel, galvanized	Galvanized sheet steel	Sheet steel, galvanized	Sheet steel, galvanized
Rated voltage	400 V	400 V	400 V	230 V	400 V
Rated current	20 A	20 A	20 A	20 A	20 A
Degree of protection (IP)	IP30	IP30	IP 30	IP30	IP30
Type of integrated switching	Energy distribution	Energy distribution	Energy distribution	Energy distribution	Energy distribution
Fastening options	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*	-5 °C	-5 °C	-5	-5 °C	-5 °C
Ambient temperature max.*	+40 °C	+40 °C	+40	+40 °C	+40 °C

## Dimensions (external measurements)

Depth (mm)	50	50	50	50	50
Width (mm)	350	350	300	300	300
Height (mm)	300	300	150	150	150

## Input

Number of inputs	2	2	1	1	1
Input type	Cable gland	gesis® CLASSIC	Cable gland	Cable gland	gesis® CLASSIC
Installation connector type	-	GST18i5	-	-	GST18i5
Coding inputs	-	1 x black/1 x white	-	-	black

## Outputs

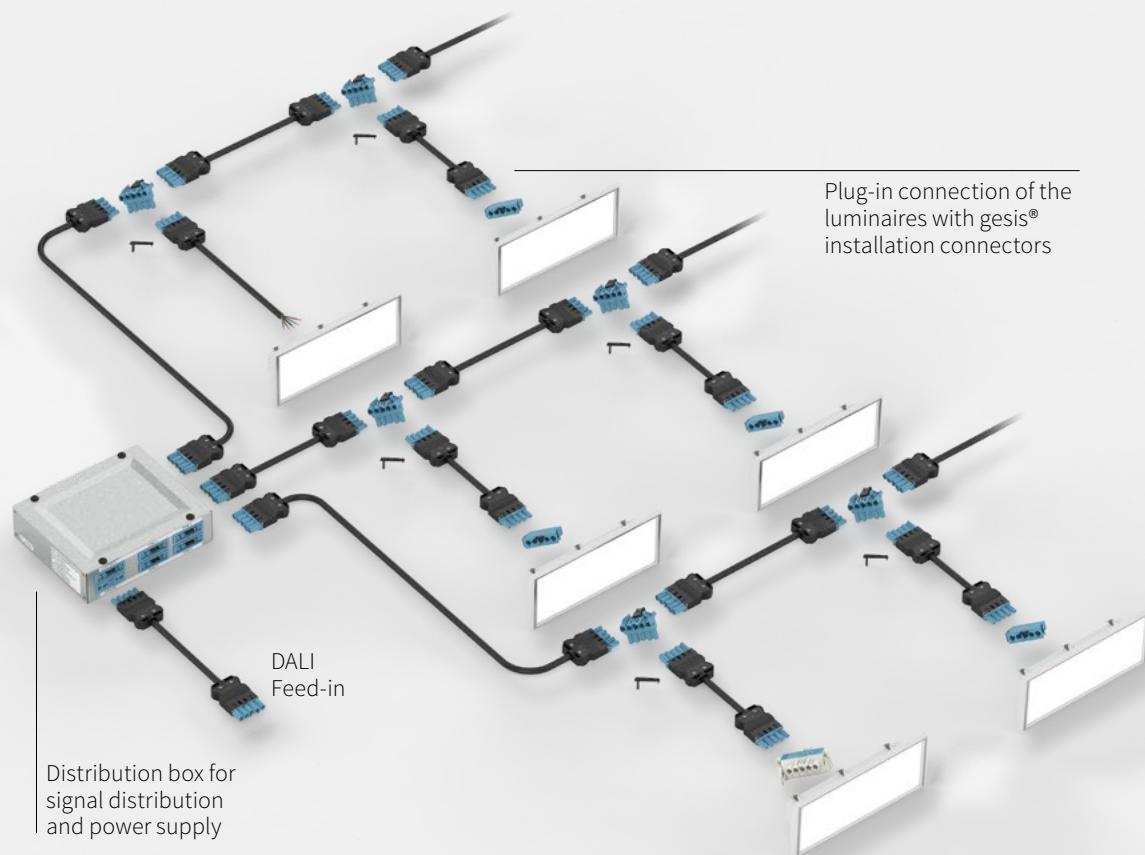
Number of outputs	12	12	12	6	6
Output type	gesis® CLASSIC	gesis® CLASSIC	gesis® CLASSIC	gesis® CLASSIC	gesis® CLASSIC
Installation connector type	GST18i3	GST18i3	GST18i3	GST18i3	GST18i3
Coding outputs	6 x black/6 x white	6 x black/6 x white	black   white	black	black
Taps per phase conductor	2 x 2	2 x 2	4	2	2
ROUTING	No	No   Yes	No	No	No
Type of fuse element	-	-	-	-	-
Number of securing elements	-	-	-	-	-

\*Condensation must be excluded

Subject to technical modifications

# DISTRIBUTION BOX CPO FOR SMART SIGNAL DISTRIBUTION

Regardless of whether you want to control the lighting or blinds. With the Wieland distribution boxes for simple signal distribution of DALI and SMI signals, we have the right solution.



## FEATURES

- + Structured cabling for DALI and SMI systems
- + Plug-in outlets and pre-assembled cables with the proven gesis®CLASSIC installation system
- + Decentralized distribution of energy and signal
- + Pluggable up to the consumer
- + The DALI feed can be provided by any DALI masters



# DISTRIBUTION BOX CPO · OVERVIEW



Designation	CPO DALI Ver/6 x GST18i5	CPO DALI Ver/6 x GST18i5	CPO DALI GST/5 x GST15i5	CPO DALI GW 3 x GST18
Part No.	98.530.1203.3	98.530.1203.4	98.530.1104.0	98.530.1204.0
Housing material	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized
Rated voltage	230 V	230 V	230 V	400V
Rated current	16A	16A	16A	16A
Degree of protection (IP)	IP30	IP30	IP30	IP30
Signal type	DALI, SMI	DALI, SMI	DALI, SMI	DALI, SMI
Type of integrated switching	Energy and signal distribution	Energy and signal distribution	Energy and signal distribution	Energy and signal distribution
Fastening options	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*	-5 °C	-5 °C	-5 °C	-5 °C
Ambient temperature max.*	+40 °C	+40 °C	+40 °C	+40 °C

## Dimensions (external measurements)

Depth (mm)	45	45	45	45
Width (mm)	150	150	150	180
Height (mm)	300	150	150	250

## Input

Number of inputs	1	1	1	2
Input type	Cable gland	gesis® CLASSIC	gesis® CLASSIC	gesis® CLASSIC
Installation connector type	-	GST18i5	GST18i5	-
Coding inputs	-	Pastel blue	Pastel blue	black, pastel blue

## Outputs

Number of outputs	6	6	5	3
Output type	gesis® CLASSIC	gesis® CLASSIC	gesis® MINI	gesis® CLASSIC
Installation connector type	GST18i5	GST18i5	GST15i5	GST18i3, 3 x GST18i5
Coding outputs	pastel blue	pastel blue	pastel blue	black, pastel blue
Taps per phase conductor	6	6	5	1



Designation	CPO DALI GW 6 x GST18	CPO DALI GW Adp/3 x GST18	CPO DALI GW Adp/6 x GST18
Part No.	98.530.1204.1	98.530.1205.0	98.530.1205.1
Housing material	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized
Rated voltage	400V	400V	400 kV
Rated current	16A	20 A	20 A
Degree of protection (IP)	IP30	IP30	IP30
Signal type	DALI, SMI	DALI, SMI	DALI, SMI
Type of integrated switching	Energy and signal distribution	Energy and signal distribution	Energy and signal distribution
Fastening options	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*	-5 °C	-5 °C	-5 °C
Ambient temperature max.*	+40 °C	+40 °C	+40 °C

## Dimensions (external measurements)

Depth (mm)	45	45	45
Width (mm)	200	150	180
Height (mm)	250	250	250

## Input

Number of inputs	2	2	2
Input type	gesis® CLASSIC	gesis® CLASSIC, gesis® MINI	gesis® CLASSIC, gesis® MINI
Installation connector type	GST18i5	GST18i5, GST15i2	GST18i5, GST15i2
Coding inputs	black, pastel blue	black, pastel blue	black, pastel blue

## Outputs

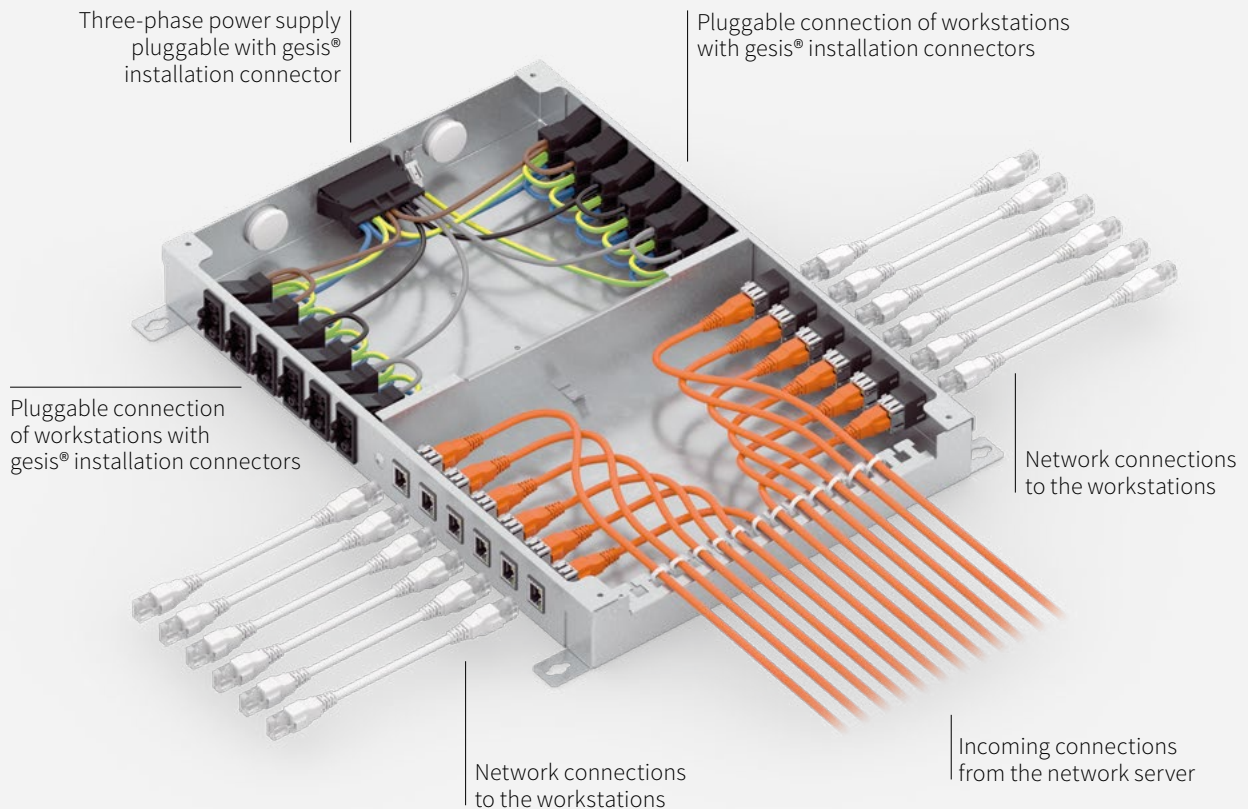
Number of outputs	7	4	7
Output type	gesis® CLASSIC	gesis® CLASSIC	gesis® CLASSIC
Installation connector type	GST18i3, 6 x GST18i5	GST18i3, 3 x GST18i5	GST18i3, 6 x GST18i5
Coding outputs	black, pastel blue	black, pastel blue	black, pastel blue
Taps per phase conductor	2	1	2

\*Condensation must be excluded

Subject to technical modifications

# DISTRIBUTION BOX CPO FOR ENERGY AND DATA DISTRIBUTION

Desk sharing, flexible working, co-working ... the office of the future must be adaptable to all of these. With our Consolidation Points, we offer you decentralized hubs for switching from a permanent to a customizable installation. By installing Wieland Consolidation Points, you are optimally prepared for future adaptations to your workstations. Thanks to their pluggable design, you can change the office concept at any time without having to touch the basic installation.



## FEATURES

- + Quick and flexible installation thanks to cable assemblies
- + Combination of energy and data in one distributor possible
- + Pluggable outlets from the distributor to the consumer/workstation





# DISTRIBUTION BOX CPO · OVERVIEW



## MIX

Designation	CPO MIX 3/3-GST18	CPO MIX 3/3-CG	CPO MIX 6/6-GST18	CPO MIX 6/6-CG
Part No.	98.530.1206.0	98.530.1206.1	98.530.1207.0	98.530.1207.1
Housing material	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized
Rated voltage	400 V	400 V	400 V	400 V
Rated current	20 A	20 A	20 A	20 A
Degree of protection (IP)	IP30	IP30	IP30	IP30
Type of integrated switching	Energy and data distribution	Energy and data distribution	Energy and data distribution	Energy and data distribution
Mounting options	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*	-5 °C	-5 °C	-5 °C	-5 °C
Ambient temperature max.*	+40 °C	+40 °C	+40 °C	+40 °C
Dimensions mm (D x W x H)	175 x 250 x 50	175 x 250 x 50	200 x 250 x 50	200 x 250 x 50
<b>Input data</b>				
Input type	1 x hammer head rail	1 x hammer head rail	1 x hammer head rail	1x hammer head rail
<b>Output data</b>				
Output type	3 x cutout for Key-Stone Element RJ45**	3 x cutout for Key-Stone Element RJ45**	6 x cutout for Keystone Element RJ45**	6 x cutout for Keystone Element RJ45**
<b>Input energy</b>				
Type of entrance:	1 x gesis® CLASSIC	1 x cable gland M25	1 x gesis® CLASSIC	1 x cable gland M25
Installation connector type:	GST18i5	-	GST18i5	-
Coding inputs	Black	-	Black	-
<b>Output energy</b>				
Output type	3 x gesis® CLASSIC	3 x gesis® CLASSIC	3 x gesis® CLASSIC	3 x gesis® CLASSIC
Number of taps per outer con-	1	1	2	2
Installation connector type	GST18i3	GST18i3	GST18i3	GST18i3
Coding outputs	Black	Black	Black	Black
Number of redirects	-	1	-	1



## MIX





Designation	CPO MIX 9/9-GST18	CPO MIX 9/9-CG	CPO MIX 12/12-GST18	CPO MIX 12/12-CG
Part No.	98.530.1300.0	98.530.1300.1	98.530.1301.0	98.530.1301.1
Housing material	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized
Rated voltage	400 V	400 V	400 V	400 V
Rated current	20 A	20 A	20 A	20 A
Degree of protection (IP)	IP30	IP30	IP30	IP30
Type of integrated switching	Energy and data distribution	Energy and data distribution	Energy and data distribution	Energy and data distribution
Mounting options	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*	-5 °C	-5 °C	-5 °C	-5 °C
Ambient temperature max.*	+40 °C	+40 °C	+40 °C	+40 °C
Dimensions mm (D x W x H)	225 x 400 x 50	225 x 400 x 50	275 x 400 x 50	275 x 400 x 50
<b>Input data</b>				
Input type	1 x hammer head rail	1 x hammer head rail	1 x hammer head rail	1 x hammer head rail
<b>Output data</b>				
Output type	9 x cutout for Keystone Element RJ45**	9 x cutout for Keystone Element RJ45**	12 x cutout for Key-Stone Element RJ45**	12 x cutout for Key-Stone Element RJ45**
<b>Input energy</b>				
Type of entrance:	1 x gesis® CLASSIC	1 x cable gland M25	1 x gesis® CLASSIC	1 x cable gland M25
Installation connector type:	GST18i5	-	GST18i5	-
Coding inputs	Black	-	Black	-
<b>Output energy</b>				
Output type	3 x gesis® CLASSIC	3 x gesis® CLASSIC	3 x gesis® CLASSIC	3 x gesis® CLASSIC
Number of taps per outer con-	3	3	4	4
Installation connector type	GST18i3	GST18i3	GST18i3	GST18i3
Coding outputs	Black	Black	Black	Black
Number of redirects	-	1 x cable gland M25	-	1 x cable gland M25

Condensation must be excluded \*\*RJ45 KeyStone Modules (G0.500.0300.2 ) are included in delivery

Subject to technical modifications

# DISTRIBUTION BOX CPO · OVERVIEW

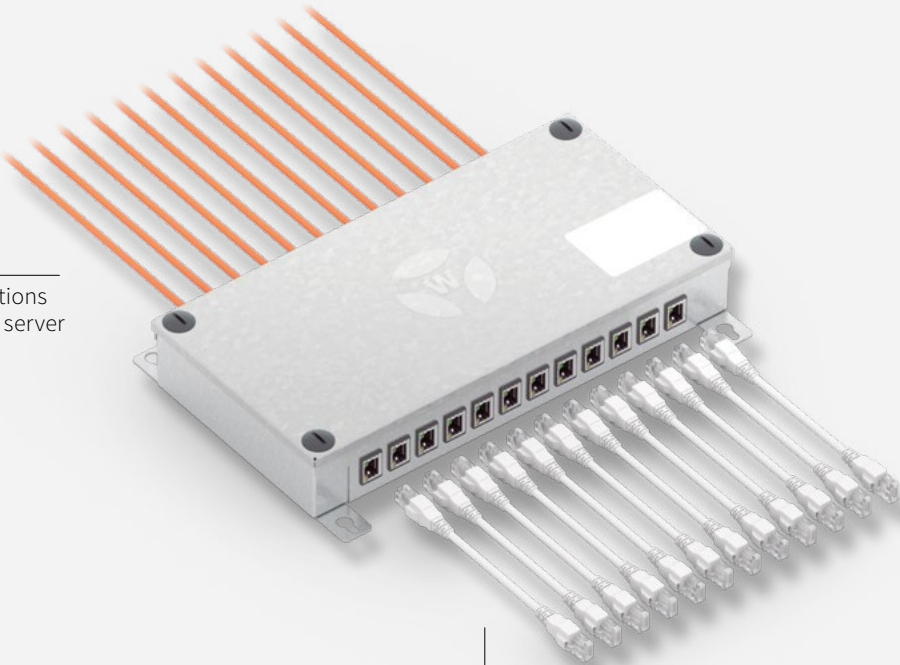
## DATA

				
<b>Designation</b>	CPO DATA 3 KS-A	CPO DATA 6 KS-A	CPO DATA 9 KS-A	CPO DATA 12 KS-A
<b>Part No.</b>	98.530.0102.0	98.530.0103.0	98.530.0201.0	98.530.0202.0
Housing material	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized	Sheet steel, galvanized
Degree of protection (IP)	IP30	IP30	IP30	IP30
Type of integrated switching	Data distribution	Data distribution	Data distribution	Data distribution
Mounting options	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall	Floor, ceiling, wall
Ambient temperature min.*	-5 °C	-5 °C	-5 °C	-5 °C
Ambient temperature max.*	+40 °C	+40 °C	+40 °C	+40 °C
Dimensions mm (D x W x H)	125 x 125 x 50	150 x 200 x 50	150 x 300 x 50	150 x 300 x 50
<b>Input data</b>				
Input type	1 x hammer head rail	1 x hammer head rail	1 x hammer head rail	1 x hammer head rail
<b>Output data</b>				
Output type	3 x cutout for Key-Stone Element RJ45**	6 x cutout for Keystone Element RJ45**	9 x cutout for Keystone Element RJ45**	12 x cutout for Key-Stone Element RJ45**

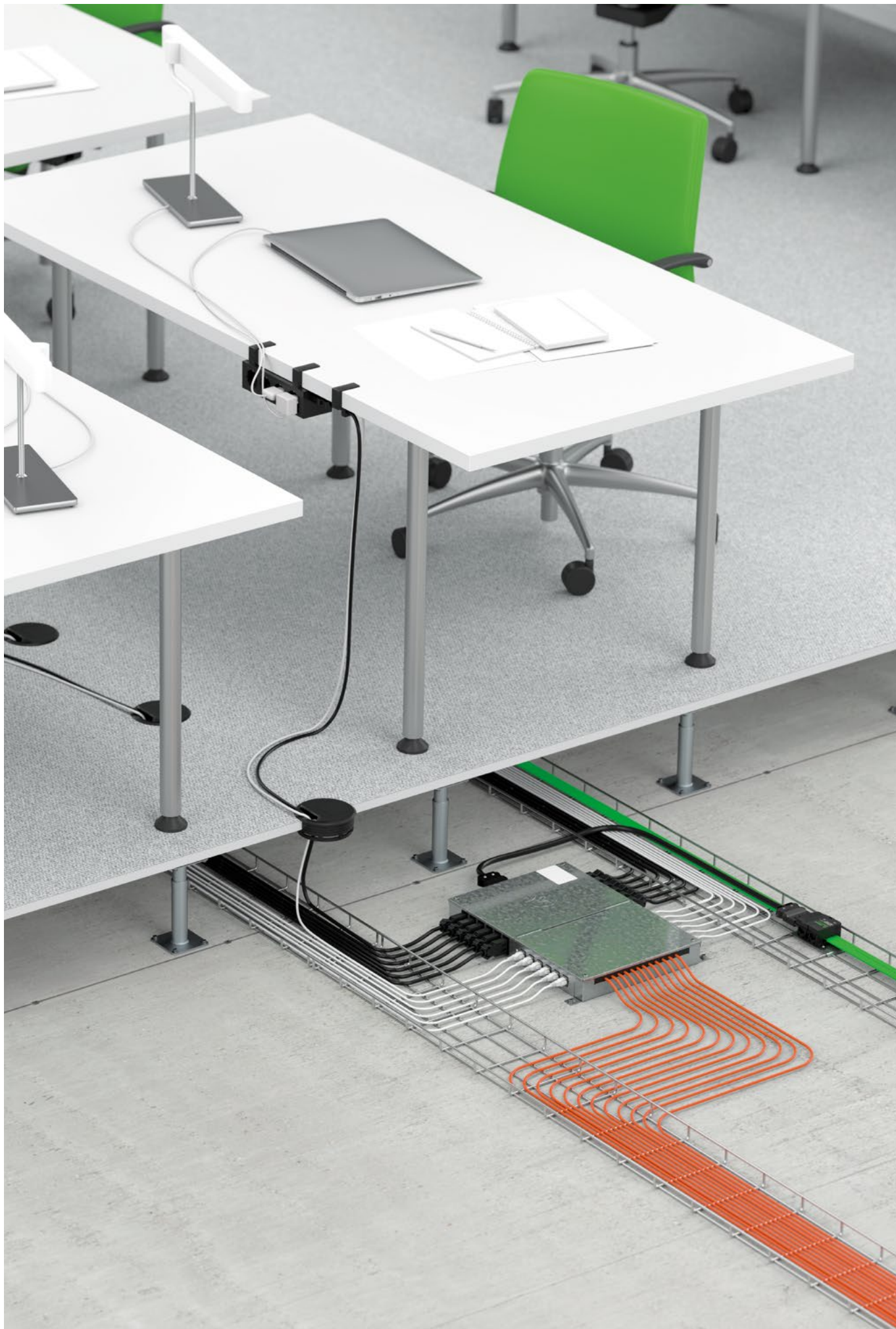
\* Condensation must be excluded    \*\*RJ45 KeyStone Modules (G0.500.0300.2 ) are included in delivery

## SYSTEM DISTRIBUTOR CPO FOR DATA DISTRIBUTION

Incoming connections  
from the network server



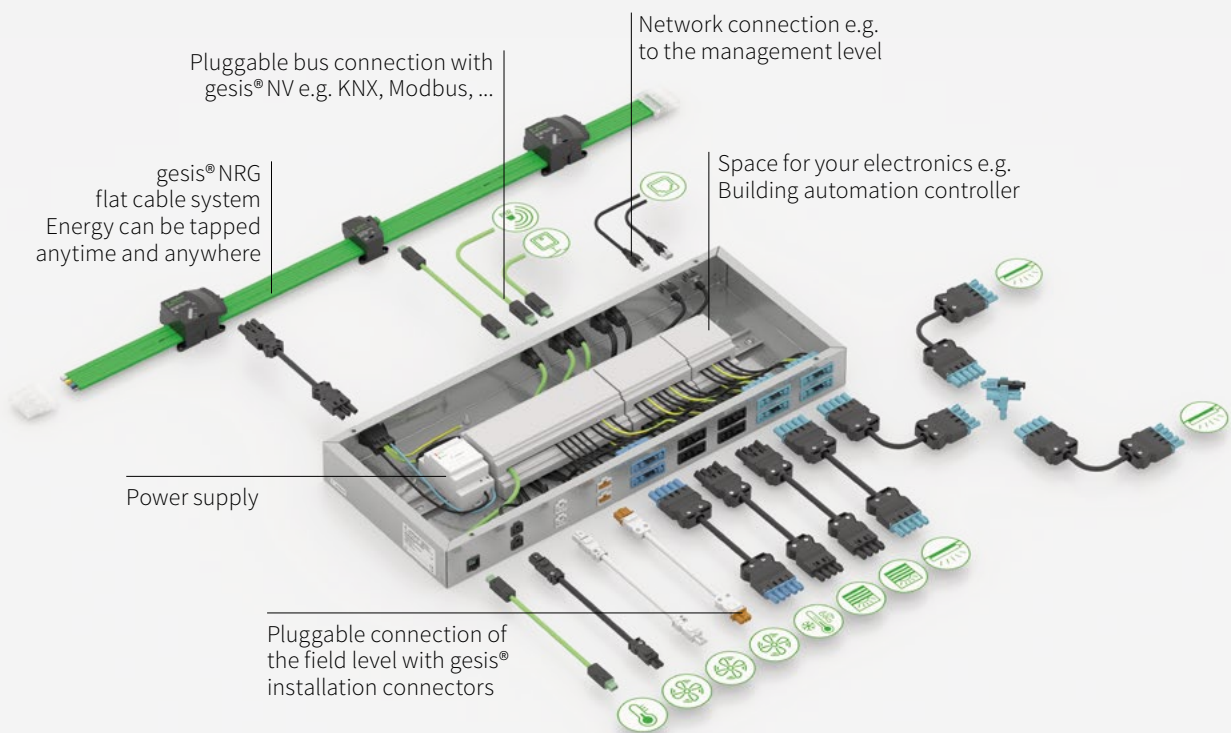
Network connections  
to the workstations





# DISTRIBUTION BOX MSR + DISTRIBUTION BOX RAU

Legislators and owners rightly require planners and operators of new buildings and retrofit measures to significantly increase the energy efficiency of buildings in order to achieve climate targets and save costs and resources at the same time. The transition to smart buildings requires flexible, communications-capable systems and products. The controllers for building and room automation are getting smarter and smarter, but in most cases the electrical installation is still the same as it was decades ago. Laying cables, stripping and stripping insulation, connecting, troubleshooting. To close this gap, Wieland brings decentralized, pluggable electrical installations with intelligence distributed in the field into play.



## FEATURES

- + Inclusion of the RA controller
- + Electronics from Wieland or supplied parts
- + Inclusion of all I/Os of a room unit
- + Manufactured, wired and tested
- + Pluggable or direct connection







### HEATING/AIR CONDITIONING/ VENTILATION

With automation devices for room air conditioning, shading and lighting, you can permanently reduce the building's operating costs and ensure a pleasant indoor climate at all times. Our partners have the right automation and Wieland makes it pluggable and can be installed decentrally.



### BLIND CONTROL

The decentralized control/automation of the sun shading drives offers a very large savings potential with regard to the cables to be laid. Regardless of whether AC, DC, SMI or SMI-LoVo drives are used, Wieland has the right pluggable system.



### LIGHTING CONTROL

The room controllers control or regulate the lighting. From simply switched to Human Centric Lighting versions, Wieland has the right connector systems to bring the signals and energy to the luminaires.



### INFRASTRUCTURE CABLING

The power supply to the circuits is also decentralized and pluggable using distribution boxes and the gesis® installation connector system.



### PLUGGABLE SENSORS

Sensors are needed to make room automation energy-efficient. These are usually not easy to connect. Wieland takes care of this and supplies them ready to plug in - all you have to do is connect them to the system distributor using Plug & Play.

# DISTRIBUTION BOX INS INSTALLATION COLUMN

Room installation and automation are housed attractively and compactly in the installation column. All room and digital functions are realized with just one column per room/classroom. Decentralization saves space and installation costs. The matching, pluggable gesis® installation connector system ensures quick and error-free installation.



## PLACE OF USE

- Schools
- Universities
- Libraries
- Public buildings
- Offices

## THE BENEFITS FOR YOU

- Ideal for retrofits (digitization)
- Individual automation solutions
- Future-proof thanks to the large installation space
- Various decors + finishes
- Flush-mounted or surface-mounted variant





### **SUNSHADE CONTROL**

The sun shading system is controlled / automated via the control panel on the pillar. Wieland offers the right connector system for simple, fast and safe installation.



### **HEATING, VENTILATION, AIR CONDITIONING**

Energy-efficient room climate at the touch of a button – adapted to individual needs. Installed with Wieland via Plug & Play.



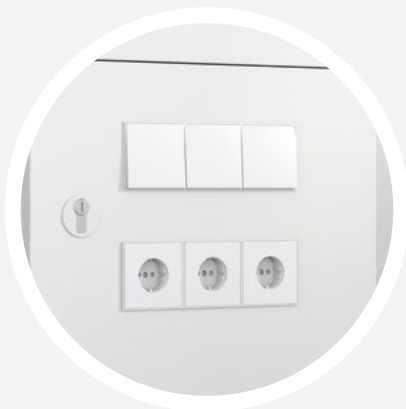
### **ALARM SYSTEMS**

Alarm systems integrated into the pillar can help to make the right assessment in emergency situations, thereby saving and protecting lives.



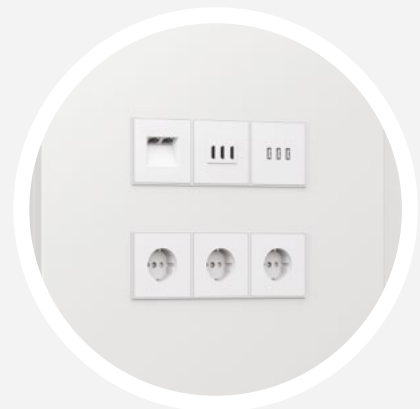
### **LIGHTING CONTROL**

The lighting can be controlled by the switching unit housed in the front. Thanks to the gesis® installation connector system, both initial installation and replacement during servicing can be carried out quickly and easily via Plug & Play.



### **SWITCHES AND SOCKETS**

Both the sockets in the service pole and the infrastructure cabling, e.g. The dado trunking or various switching elements in the room can be installed as plug-in units and are securely integrated via the pillar.



### **MULTIMEDIA INTERFACES**

Digitization is essential for classrooms. The installation column provides the necessary installation space and interfaces (TV, USB, HDMI, LAN, ...) for the systems. The required peripheral devices can be integrated quickly and pluggably.

# INDIVIDUAL CUSTOMER SOLUTIONS

Can't find what you're looking for in our standard range? We manufacture customized distribution boxes for your projects! There are virtually no limits to the variants and areas of application - see for yourself on the following overview pages.



## PLANNING

From conceiving the initial concept to inviting tenders, our experienced staff will accompany your project on site and in Bamberg.



## INVITING TENDERS

We will help you define and specify the distribution boxes and draw up the tender text and a cost estimate.



## FINALIZATION

We manufacture your distribution boxes according to your plans and deliver them to the address of your choice, picked together with other components.



Depending on the application, area of use and customer requirements, we use a wide variety of materials for the distributor housing.

## YOUR BENEFITS

- + Optimized project processes
- + Simple planning
- + Individually configurable
- + Documentation included in the scope of delivery
- + Industrially manufactured quality with routine testing





# HOUSING MATERIAL



## **GALVANIZED SHEET STEEL**

Offers the most options when designing the distribution box. Standard material thickness 1 mm.



## **POWDER-COATED SHEET STEEL**

Galvanized sheet steel with high-quality powder coating in the RAL colour spectrum possible.



## **PLASTIC**

Here we use standard market housings, which are processed accordingly. Higher IP protection ratings can be achieved.



## **DIE-CAST ALUMINUM**

If you want it to be really robust. Standard market housings are used and processed.

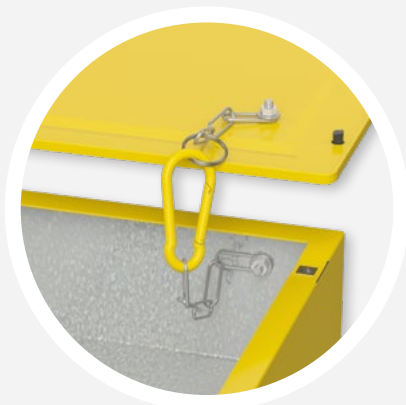
## **CUSTOMIZED IMPLEMENTATION**

- + Product advice
- + Execution as desired
- + Manufacture with desired material

# COVERS + OPENINGS



Cover protection  
with chain



Removable cover protection  
with chain and snap hook



All necessary component  
earthing integrated



Sheet steel cover,  
coated on request



Transparent acrylic  
glass cover



Ventilation openings  
for better heat dissipation



With hinged cover for protected  
access (sealable)



Cut-outs for direct access  
to operating elements

# CLOSURES + FASTENINGS

## CLOSURES



90° quick-release fastener



Screwed



Punch/stamp

## FASTENINGS



Hole in the floor panel

## FEATURES

- + Tailored to your wishes
- + Optimized for local conditions
- + For the quickest possible installation

## ANGLE BRACKET OUTSIDE



Raised (thermally better, room for cabling)



Keyhole



Long-slot (with cable duct fastening)

# FURTHER FEATURES

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## ROOM FOR ALL ELECTRONICS

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We fit any electronics into the distribution boxes.

- Provided automation devices
- Wieland power supply units and overvoltage protection
- Terminal blocks for wiring
- Supplier products such as RCB/MCB
- Consciously plan a reserve

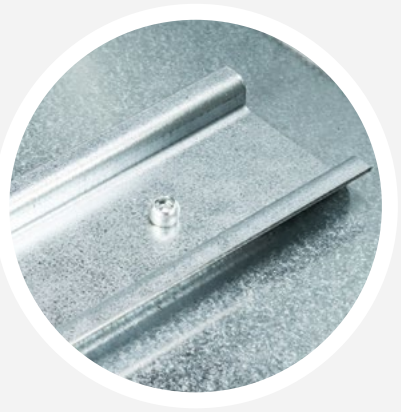


## INTEGRATION OF DEVICES

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The possibilities are endless; the design depends on the components used.

- On rails of various profiles (H, G, C) flush to the floor or raised
- Direct mounting on the distribution plate
- Mounting on support plates / riveted or screwed
- Rails set on bolts
- You define the components to be integrated, we find a solution and supply the finished distribution boxes





### THERMAL LOAD

Ventilation openings may be necessary when installing appliances with higher power loss.

- Load consideration
- Definition of the necessary measures
- Heat transfer via the closed housing
- Insert ventilation openings



### ACCESSIBILITY OF THE DEVICES

The fixtures must be accessible for commissioning, operation, or troubleshooting.

- Opening the cover
- Protruding through the cover
- Protruding and covered with a flap
- Sealable



### ELEMENTS FOR CABLE CONNECTION

Regardless of whether pluggable distributors or distributors with cable entries, both models require built-in elements like snap-in or screw fittings.

- Can generally be installed on all exterior walls
- Installation type according to connection type
- Consciously plan in a reserve and provide with dummy covers
- Elements such as snap-in or screw fittings



### SPECIFY WIRING

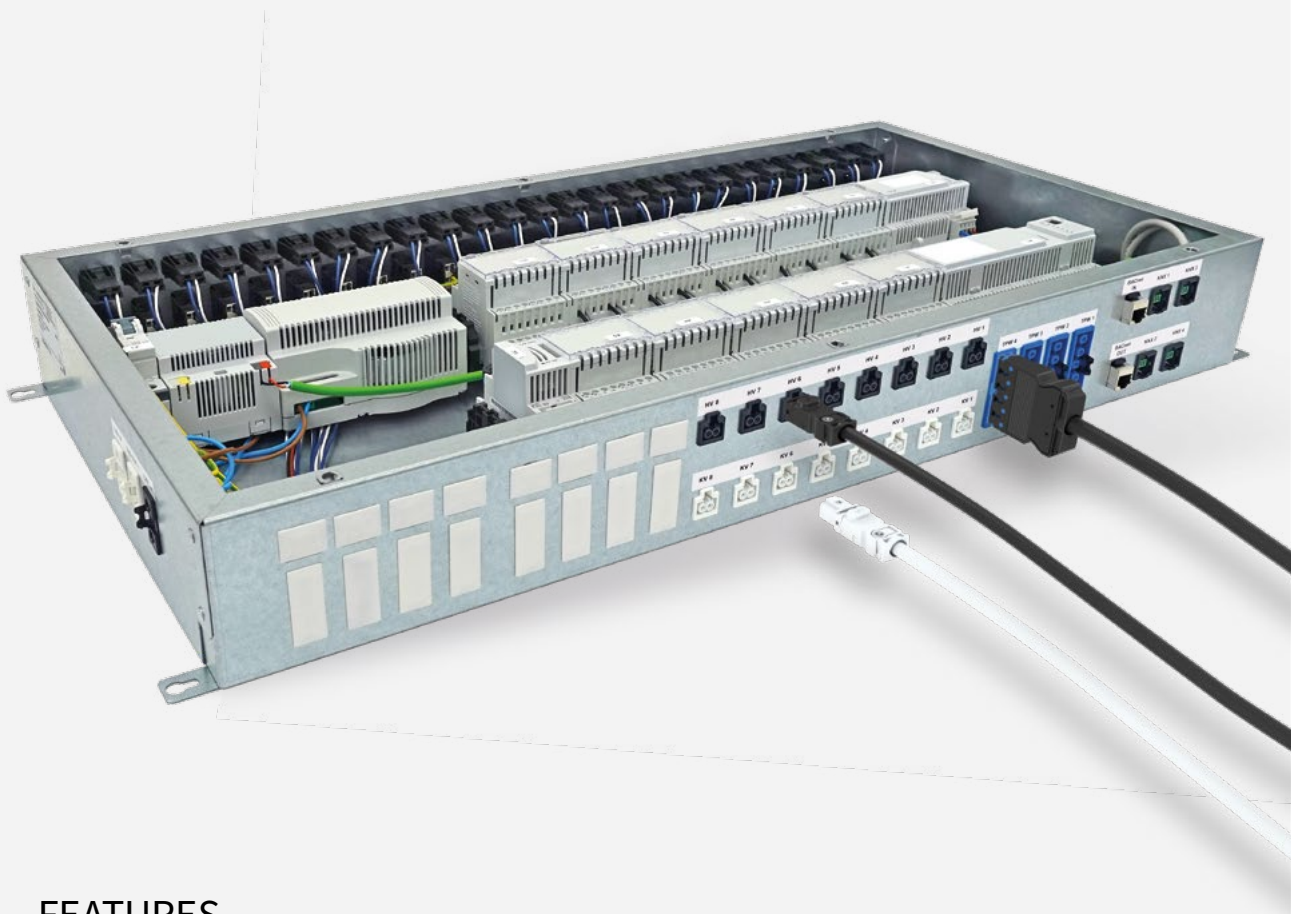
A number of things must be taken into account when designing the wiring in accordance with standards and practical requirements. We will be happy to advise you.

- Type of cables (PVC, halo-gen-free, fire behavior)
- Temperature range of the cables
- Cable cross-sections
- Isolation SELV to mains
- Laying in ducts



# ELECTRICAL INTERFACES

We will provide you with expert advice when planning the electrical connections to the outside in order to find the optimum solutions together. These range from 100 % pluggability to simple strain relief, from sensor cables to high cross-sections, from data to energy connections.



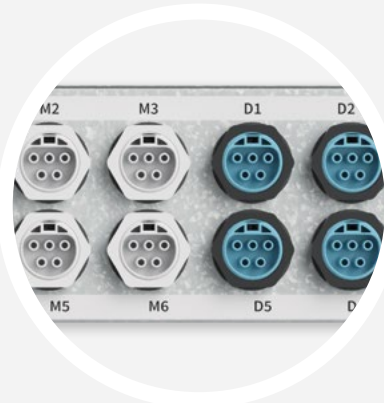
## FEATURES

- + A wide variety of interfaces possible
- + Blind covers for future retrofitting
- + Convenient installation and commissioning



### **GESIS® CLASSIC/GESIS® MINI**

- IP20/40
- Signals and energy (20 A)
- 2- to 6-pole
- 230 V/400 V
- SELV (bus systems and signals)
- Mechanical coding for unmistakability
- Many variants



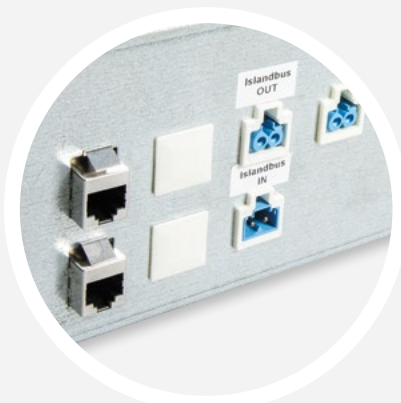
### **RST®**

- IP66/IP68 (3m; 2h)/IP69
- Signals and energy
- 2- to 7-pole
- 230 V/400 V
- SELV (bus systems and signals)
- Mechanical coding for unmistakability
- Many variants



### **REVOS CONNECTORS**

- Higher pole numbers
- Very robust
- Hybrid connectors possible



### **DATA CONNECTIONS**

- Ethernet/PoE via plug connector or with the various cable entries
- KNX, Modbus or other bus systems using gesis® installation connectors
- DALI/SMI and other systems to be treated as 230 V using gesis® MINI, gesis® CLASSIC or RST®



### **CONVENTIONAL ENTRIES**

- Screw fittings in all standard sizes
- Plastic or metal
- Insertion flange
- Comb rail for fixing cables



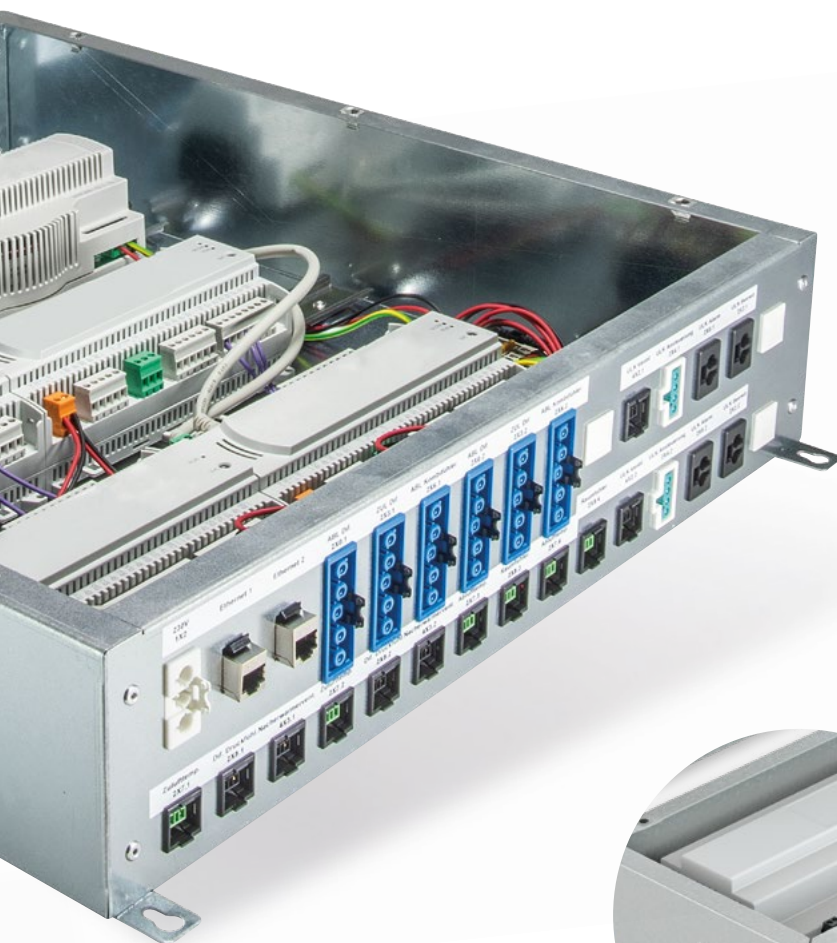
### **OTHER**

- Cables connected directly, e.g. Adapter to gesis® NRG 5G10 mm<sup>2</sup>
- Earthing connection stud with standard design for ring cable lugs
- Various dummy covers



# LABELING + IDENTIFICATION

Labeling is essential for the installation, commissioning and operation of the system.  
We will work with you to develop an informative labeling concept for your distributors.



## SOLUTIONS

### INPUTS/OUTPUTS

- Individual, labels make each connection identifiable

### ADDRESS STICKERS/BUS SYSTEMS

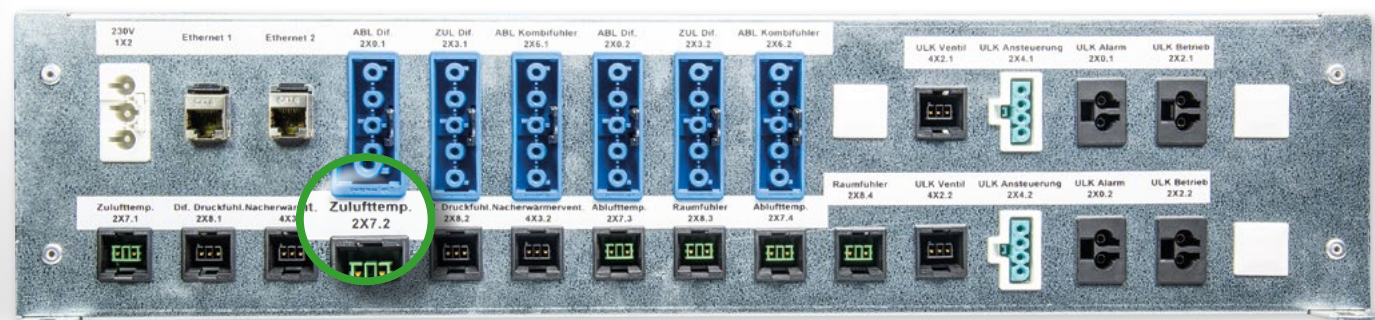
- To identify bus users, the ID number of the installed devices can be attached on the outside, also as a QR or barcode

### EARTHING CONNECTIONS

- Are often marked with embossing, but also with labels

### DISTRIBUTOR IDENTIFICATION

- Label with order number and other data



# INDIVIDUAL AND GENERAL **EXAMINATIONS**

Quality is a matter of course for us, which we constantly monitor through various tests. Our distributors comply with the underlying standards and regulations for the intended use. Examinations, such as wiring, are always carried out for each individual piece. Individual tests, such as function tests, are agreed separately.



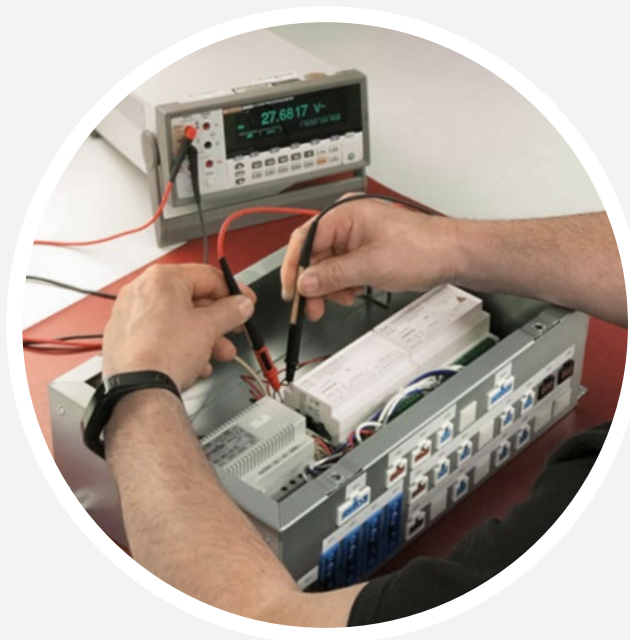
## **SOLUTIONS**

### **CHECKING THE PLANS**

- Before the manifolds are manufactured, our customers receive the plans for confirmation

### **TESTS**

- Visual inspections of the superstructures and continuity testing of the wiring are generally carried out
- Functional tests can be carried out by arrangement
- Test reports can be created
- CE marking and corresponding conformity documents can be created
- The production of distribution boxes is supported by our laboratory and our development department. Wieland Electric is DIN ISO 9001 and EMAS certified



## **FEATURES**

- + Testing according to international standards
- + Function test
- + Standards







# SMART SERVICE + SERVICES

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## PLANNING SUPPORT

From conceiving the initial concept to inviting tenders, our experienced staff will accompany your project on site and in Bamberg.

- Planning the dimensioning
- Conception and definition of electrical interfaces
- Installation planning
- Fastening planning



## INVITATIONS TO TENDER

Where necessary, we work with our customers to draft the necessary tender texts.

- For public tenders in neutral wording
- In text form (.txt or .docx)
- In GAEB
- Also available in other formats by arrangement



## EXECUTION DOCUMENTS

The necessary documents for the distributors are provided digitally, optionally also in another form according to customer requirements. This saves our customers a lot of detailed work.

- Mechanical assembly plans
- Electrical wiring diagrams
- Parts lists



### INTEGRATION COMPONENTS

Functional components such as protective/switching devices, automation devices, power supply units and much more must be installed in the distribution board.

- Many of our customers, particularly in building automation, supply their own electronics
- Wieland supplements the distributors with active and passive elements to create functional units



### PRE-ASSEMBLY OF FIELD DEVICES

We assemble all sensors and consumers with our plug-in systems for quick and easy installation on site.

- Plug & Play on the construction site
- Assembly of provided or purchased parts
- Error minimization during assembly



### PICKING OF DELIVERIES

To fit in with the building processes, we can pick the distributors together with other components and deliver them to the construction site promptly.

- For predefined units, e.g. floors
- Distribution boxes including external cables, connectors, etc.
- Delivery to your desired address



### CALCULATIONS, STANDARDS, TESTS

The distribution boxes are manufactured and individually tested in accordance with applicable standards and guidelines.

- Unit verification
- Power loss calculation
- EMC consideration
- IP protection rating inspection



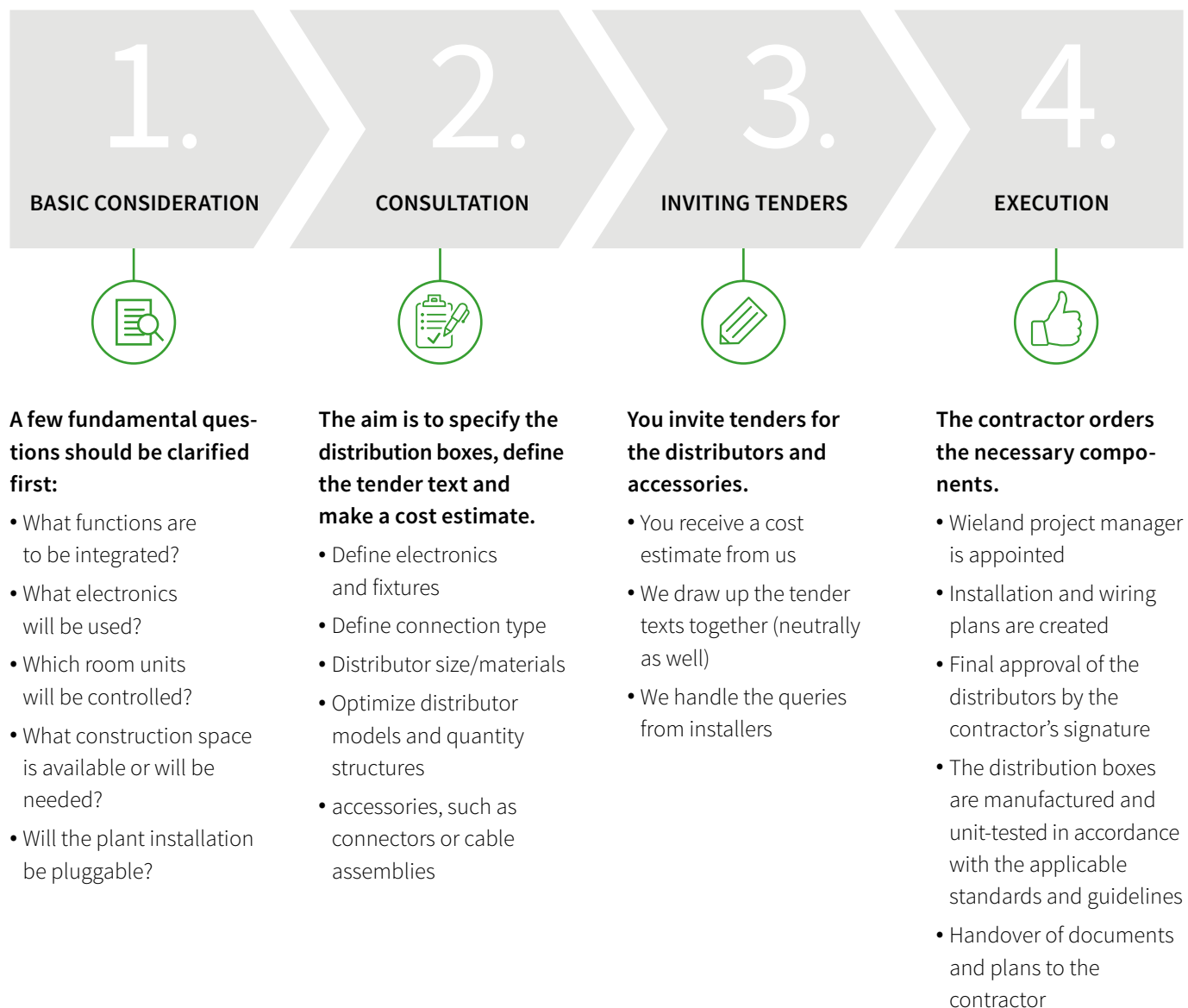
### LABELING + MARKING

Marking the inputs/outputs and attaching labels or identification numbers is essential for the creation and operation of equipment.

- Customized marking
- Application of e.g. built-in or predefined device IDs
- Application of plant identification system (AKS)
- Barcode or QR code creation

# THE PROCESS FOR YOU AS THE **PLANNER**

What does a building installation  
using our products mean for you?

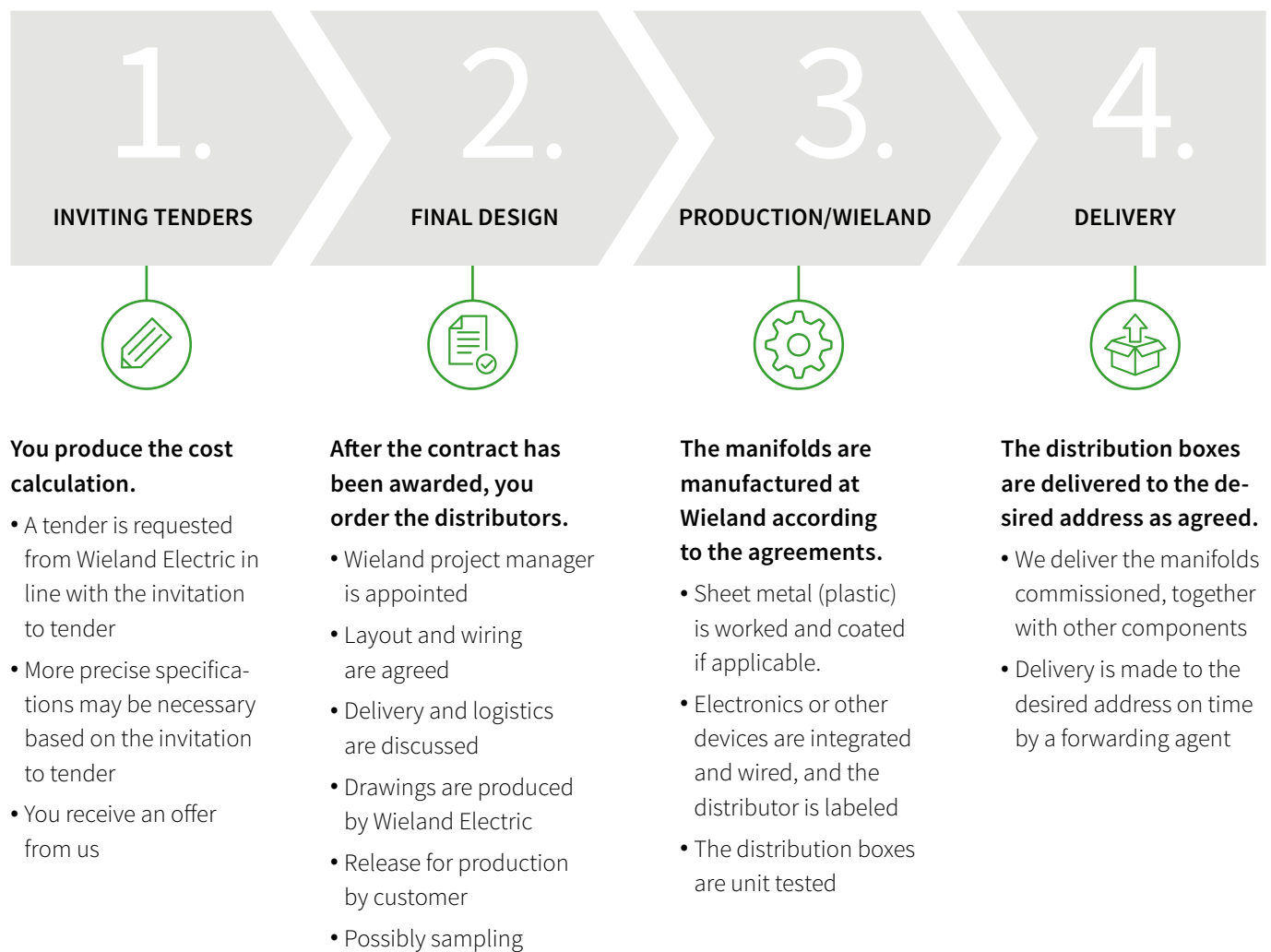


## Contact our experts

Your Wieland service partner worldwide:  
<https://www.wieland-electric.com/en/contacts/contact/>

# THE PROCESS FOR YOU AS THE **CONTRACTOR**

What will change in the installation  
and in the process?





# DOCUMENTATION FOR YOU



## PLANS

### WE DELIVER:

- Layout plans
- Wiring plans
- Parts lists

### BY ARRANGEMENT WE DELIVER:

- Documents in paper format
- Wiring plans
- 3D data
- Layout plans in DXF format
- Inspection plans
- Test reports



## DATA SHEET + CERTIFICATES

### BY ARRANGEMENT

### WE DELIVER FOR ALL WIELAND COMPONENTS:

- Data sheets
- CE declarations of conformity

### BY ARRANGEMENT WE DELIVER FOR THIRD-PARTY DEVICES:

- The documents available from the original manufacturer

# DELIVERY OF THE DISTRIBUTION BOXES



### DELIVERY OPTIONS:

- Packaging and shipping containers
- Pallets and containers on pallets
- On the construction site within a specified time frame
- To your warehouse
- With our logistics partner
- By arrangement with the forwarding agent requested by the customer

### PICKING OPTIONS:

Distribution boxes per unit area

- Plus cables
- Plus accessories
- Plus plug sets

The details will be discussed with your project manager during the course of the project.



# OTHER

## WE PRE-ASSEMBLE FIELD DEVICES:

We assemble all types of field devices such as Valves with the plug connections required for connection to the manifold.



## TENDER TEXTS

The tender texts are drawn up in accordance with joint agreements.

## YOU WILL RECEIVE FROM US:

- Tender texts with direct reference to Wieland Electric
- Neutralized tender texts
- Tenders in the corresponding Word and GAEB formats, other formats on request

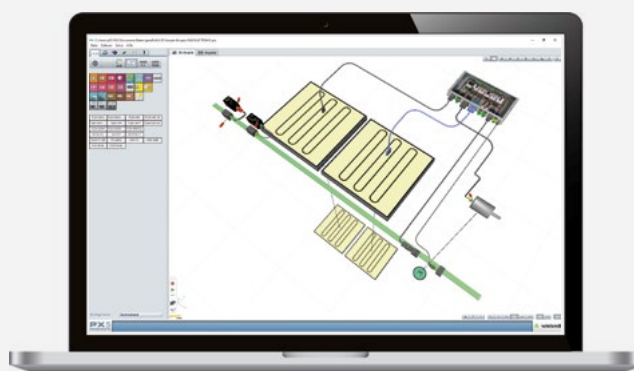


# GESIS® PLAN

## THE 3D CONCEPTUAL DESIGN TOOL

### GESIS® PLAN OFFERS:

- Import option for DWG/DXF/JPG/PNG (PDF) files
- Use of mounting levels
- Placing components in the room
- Laying cables in the room
- Conflict check (case of tension, ...)
- Generation of parts lists
- Animation of the drawings



### GESIS® PLAN IS FREE OF CHARGE:

Plan smart and request our gesis® PLAN tool free of charge by e-mail:

[gesisplan@wieland-electric.com](mailto:gesisplan@wieland-electric.com)



# ROOM AUTOMATION WITH THE GESIS® PLUG + PLAY INSTALLATION.

New energy concepts for non-residential buildings are in demand. Anyone who wants to make energy-efficient and digital educational buildings a reality must adopt the right course now.

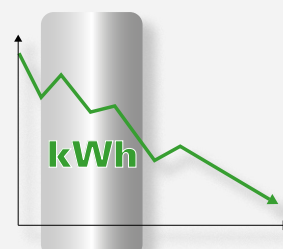
In the case of new buildings and retrofit measures, developers are quite rightly demanding that planners and operators significantly increase the energy efficiency of buildings with the aim of saving costs and resources. The transition to smart buildings requires flexible, communications-capable systems and products. Public buildings in particular, such as schools, hospitals, or administration buildings, have to be renovated and brought up to date technologically on a regular basis.

Short timescales and tight completion schedules are often a problem for electrical installers on site.

With our gesis® installation column, building owners and operators can rely on well-prepared, quick, safe, documented, and, above all, error-free installation and room automation according to the plug & play principle – easy to handle and maintain, and flexible to accommodate future changes to the building.

## STUDY BY BIBERACH UNIVERSITY OF APPLIED SCIENCES ON THE TOPIC OF ENERGY SAVING

A scientific study in three rooms with different automation levels was conducted at Biberach University of Applied Sciences during the lecture period. Considerable savings potential was identified in the process. Savings of more than 30% in electrical energy consumption and even more than 50% in heating energy consumption are possible! And all this in the existing structure without any structural changes. The study “Energy efficiency with building automation” was carried out from 2009 to 2011 by Professor Dr.-Ing. Martin Becker and his team.



# GESIS® COMPONENTS

## CONNECTOR

Connectors are the basic element of the pluggable electrical installation. In systems, they are used to make initial connections or to connect cables that cannot be introduced into the building in a pre-assembled manner, e.g. where cables are drawn into pipes. Wherever possible, they should be replaced by cable assemblies. Our systems are installation connector systems that are approved in accordance with DIN EN 61535.



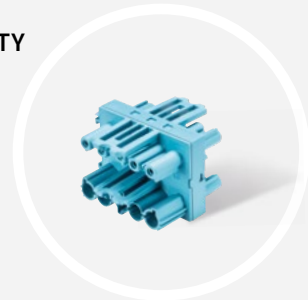
## CABLE ASSEMBLIES

Cable assemblies enable extremely quick and error-free installation. They are available in different pole counts, cross-sections, cable types, and lengths, and with different connectors. Wieland manufactures the cable assemblies industrially. So you receive individually tested quality on the construction site.



## DISTRIBUTION OPTIONS, E.G. FOR LIGHTING CIRCUITS WITH DALI FUNCTIONALITY

Connectors and cables would only allow individual strings. Our diverse distribution elements, which we call T, h, H, HH distributors for short, referring to the number and arrangement of the inputs/outputs, enable an effective extension of the string structure to a tree or star structure.



## SIGNAL APPLICATION

Low-voltage connectors are used for safe bus cabling and the distribution of signals inside buildings in parallel to the distribution of energy, such as with a KNX presence detector.



## DECENTRALIZED ROOM AUTOMATION

The areas of lighting, shading and room temperature are responsible for an optimal working atmosphere. Intelligent room automation devices are essential to ensure that they perform their tasks optimally. For fast, flexible and safe installation, we integrate the devices into the pluggable, decentralized electrical installation with our system distribution boxes.



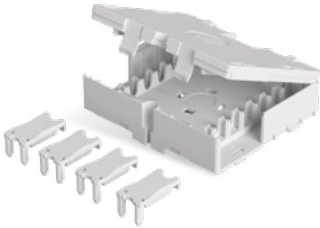


# MICRO DISTRIBUTOR

## Distributor boxes for customized equipping in the IP 20 application range.

The distribution boxes can be individually equipped and stacked. This makes it possible to create small distributors for which, for example there are no ready-made distribution blocks.

### GST18® DISTRIBUTION BOX



Designation	Part No.	PU
Empty housing with 4 locks for <b>GST18®</b>	99.508.0028.0	1

#### TECHNICAL DATA

Housing material	PA 6	UL 94-V2
Housing dimensions W x H x D (mm)	85 x 73 x 25.6 mm	
Color	Light gray RAL 7035	

These housings are also suitable for multi-level distribution solutions.

Pre-wired connections available on request.

Position up to 7 pins per side.

## Blackbox GST18® for simple power distribution points and circuit wiring.

This ranges from rotary/alternating current splitters and the distribution of two circuits to simple switch wiring for non-automated offices.

### GST18® BLACKBOX



Designation	Part No.	PU
<b>GST18®</b> BLACKBOX, 3-pole distributor, 1 IN, 5 OUT	99.234.0028.0	1
<b>GST18®</b> BLACKBOX, 5-pole three-phase/AC distributor, 1 IN, 7 OUT	99.237.0028.0	1
<b>GST18®</b> BLACKBOX, 3-pole distributor, 1 IN, 7 OUT	99.238.0028.0	1
<b>GST18®</b> BLACKBOX, 5-pole three-phase/AC distributor, 1 IN, 7 OUT (salmon pink)	99.281.0028.0	1

#### TECHNICAL DATA

Housing material	ABS	UL 94-V0
Housing dimensions W x H x D (mm)	171 x 120 x 30.5	

Customized connections available on request.

## Distribution boxes pre-equipped or for customized equipping in the IP 6x application range.

The RST® distributors are available both as empty housings and already equipped. They are suitable for use in areas where increased IP protection is required.

### RST® COMPACT DISTRIBUTORS



Designation	Part No.	PU
<b>RST®</b> COMPACT DISTRIBUTOR, 5-pole distributor mains, 1 IN, 3 OUT, Black	96.050.0153.1	1

#### TECHNICAL DATA

Rated current	20 A
Rated voltage	250/400 V
Rated impulse voltage	4 kV
Housing material	Polyamide
Housing dimensions W x H x D (mm)	162 x 104 x 57.2

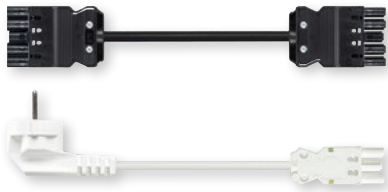
You can find further variants in the e-shop

<https://wie.li/kompaktvertrst>



# GESIS® CLASSIC ACCESSORIES

## Cable assemblies



Model	Poles	Color coding	Cable	Part No.	PU
GST18i3 Bu-St 1.5mm²	3-pole	white	H05VV-F cable, white	92.232.x000.2	1
GST18i3 Bu-St 1.5mm²	3-pole	black	H05VV-F cable, black	92.232.x010.1	1
GST18i3 Bu-St 1.5mm²	5-pole	white	H05VV-F cable, black	92.257.x000.2	1
GST18i3 Bu-St 1.5mm²	5-pole	black	H05VV-F cable, black	92.257.x000.1	1
GST18i3 Bu-SchuKo	3-pole	white	Cable, safety, white	92.232.x007.2	1
GST18i3 Bu-SchuKo	3-pole	black	Cable, safety, black	92.232.x007.1	1

(x = cable length in meters)

## Locking device for flying lead



Model	Color coding	Part No.	PU
Interlock GST18 WS	white	05.587.3156.0	1
Interlock GST18 WS	black	05.587.3156.1	1

## Adapter cables between systems



Model	Poles	Color coding	Cable	Part No.	PU
GST18 Male/GST15 Fem	3-pole	white	H05VV-F cable, white	91.232.1009.2	1
GST18 Male/GST15 Fem	3-pole	black	H05VV-F cable, black	91.232.1009.1	1
GST15 Male/GST18 Fem	3-pole	white	H05VV-F cable, white	Upon request	1
GST15 Male/GST18 Fem	3-pole	black	H05VV-F cable, black	Upon request	1
CEE16A/6H+GST18i5	5-pole	black	H07RN-F cable, black	99.410.0000.1	1

## Distribution block



Model	Poles	Color coding	Model	Part No.	PU
GST18i3 2P1H WS	3-pole	white	1 input, 2 outputs	92.030.6053.0	1
GST18i3 2P1H SW	3-pole	black	1 input, 2 outputs	92.030.6053.1	1
GST18i3V 3P1 B V WS	3-pole	white	1 input, 3 outputs	92.030.6953.0	1
GST18i3V 3P1 B V SW	3-pole	black	1 input, 3 outputs	92.030.6953.1	1
GST18i3V 5P1 BV WS	3-pole	white	1 input, 5 outputs	92.030.0953.0	1
GST18i3V 5P1 BV SW	3-pole	black	1 input, 5 outputs	92.030.0953.1	1

## Carrier plate for distribution block



Model	Color coding	Part No.	PU
GST18 DISTRIBUTOR WS	white	07.413.6853.0	1
GST18 DISTRIBUTOR SW	black	07.413.6853.1	1

Distributor block GST18i3 2P1H cannot be mounted on support plate

## Power outlet strips, without switches



Model	Color coding	Sockets	Part No.	PU
WSDL 1-3 WS	white	3 outlets, without child protection	99.602.0028.0	1
WSDL 1-3 SW	black	3 outlets, without child protection	99.601.0028.0	1
WSDL 1-3 WS	white	3 outlets, with child protection	99.653.0028.0	1
WSDL 1-3 SW	black	3 outlets, with child protection	99.652.0028.0	1

Further versions, e.g. 2-way, can be switched off available

## Overvoltage protection



Model	Error display	Part No.	PU
GST18i3UE O	Optical defect indicator	84.990.1242.0	1
GST18i3UE AWS	Acoustic defect indicator	84.990.1243.0	1

Suitable for black and white coding

# GESIS® MINI ACCESSORIES

## Cable assemblies



Model	Poles	Color coding	Cable	Part No.	PU
GST15I3 Fem-Male 1.5mm <sup>2</sup>	3-pole	white	H05VV-F cable, white	91.232.x000.2	1
GST15I3 Fem-Male 1.5mm <sup>2</sup>	3-pole	black	H05VV-F cable, black	91.232.x000.1	1
GST15I3 Fem-Male 1.5mm <sup>2</sup>	5-pole	black	H05VV-F cable, black	91.257.0500.2	1
GST15I3 Fem-Male 1.5mm <sup>2</sup>	5-pole	black	H05VV-F cable, black	91.257.1000.1	1

(x = cable length in meters)

Locking device integrated in connectors

## Distribution block



Model	Poles	Color coding	Model	Part No.	PU
GST15I3V 2P1H W WS	3-pole	white	h, 1 input, 2 outputs	91.030.6053.0	1
GST15I3V 2P1H W SW	3-pole	black	h, 1 input, 2 outputs	91.030.6053.1	1
GST15I3V 3P1H W WS	3-pole	white	H, 1 input, 3 outputs	91.030.4953.0	1
GST15I3V 3P1H W SW	3-pole	black	H, 1 input, 3 outputs	91.030.4953.1	1
GST15I3V 5P1H W WS	3-pole	white	HH, 1 input, 5 outputs	91.030.5253.0	1
GST15I3V 5P1H W SW	3-pole	black	HH, 1 input, 5 outputs	91.030.5253.1	1

## Carrier plate for distribution block



Model	Part No.	PU
GST15 h-/H-VT	Suitable for distribution block h, H	07.418.9153.1
GST15 HH-V	Suitable for distribution block HH	07.418.9253.1

# ACCESSORIES RST®

## Cable assemblies



(x = cable length in meters)

Locking device integrated in connectors

Model	Poles	Color coding	Cable	Part No.	PU
RST20I3 Fem-Male 1.5mm <sup>2</sup>	3-pole	light gray	H07RN-F	96.232.x030.0	1
RST20I3 Fem-Male 1.5mm <sup>2</sup>	3-pole	black	H07RN-F	96.232.x030.1	1
RST20I3 Fem-Male 1.5mm <sup>2</sup>	5-pole	light gray	H07RN-F	96.452.x030.0	1
RST20I3 Fem-Male 1.5mm <sup>2</sup>	5-pole	black	H07RN-F	96.452.x030.1	1
RST50i5 Bu-St 6 mm <sup>2</sup>	5-pole	black	H07RN-F	99.689.0000.0	1
RST50i5 BU-CEE plug 6 mm <sup>2</sup>	5-pole	black	H07RN-F	99.690.0000.0	1

## Distributor



Model	Poles	Color coding	Model	Part No.	PU
RST20I3V 3P1 F V GL	3-pole	light gray	1 input, 3 outputs	96.030.0153.0	1
RST20I3V 3P1 F V SW	3-pole	black	1 input, 3 outputs	96.030.0153.1	1

With integrated mounting option

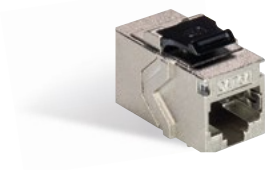
## Cover cap



Model	Color coding	Part No.	PU
Female	3-pole	light gray	99.413.6205.2
male	3-pole	light gray	99.414.6205.2
Female	3-pole	black	99.415.6205.2
male	3-pole	black	99.416.6205.2
Female	5-pole	light gray	99.529.0000.7
male	5-pole	light gray	99.531.0000.7
Female	5-pole	black	99.530.0000.7
male	5-pole	black	99.532.0000.7

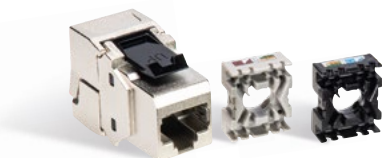
# ACCESSORIES

## Keystone module



Model	Description	Part No.	PU
CAT 6 female/female	RJ45 coupling (socket/socket)	G0.500.0303.6	1

## Keystone module panel jack



Model	Description	Part No.	PU
CAT 6 panel jack	RJ45 panel jack for tool-free self-assembly	G0.500.0300.2	1

## Patch cable RJ45



Model	Part No.	PU
<b>wienet</b> patch cable MOD ZBH RJ45 0.25 m	78.999.4000.0	1
<b>wienet</b> patch cable MOD ZBH RJ45 0.5 m	78.999.4100.0	1
<b>wienet</b> patch cable MOD ZBH RJ45 1.0 m	78.999.4200.0	1
<b>wienet</b> patch cable MOD ZBH RJ45 2.0 m	78.999.4300.0	1
<b>wienet</b> patch cable MOD ZBH RJ45 3.0 m	78.999.4400.0	1
<b>wienet</b> patch cable MOD ZBH RJ45 5.0 m	78.999.4500.0	1
<b>wienet</b> patch cable MOD ZBH RJ45 7.5 m	78.999.4600.0	1
<b>wienet</b> patch cable MOD ZBH RJ45 10 m	78.999.4700.0	1



You can find further variants in the e-shop

<https://eshop.wieland-electric.com>



# REFERENCE PROJECTS

Here is a small selection of completed projects in the field of distribution boxes.



**Allianz Insurance**  
Frankfurt



**Federal Ministry of Defense**  
Berlin

© Wikimedia Commons, Jcornelius



**Deutsche Bank**  
Frankfurt

Thomas Wolf, www.foto-tw.de (CC BY-SA 3.0 DE)



**Roche Tower 1 + 2**  
Basel

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**The Circle**  
Kloten

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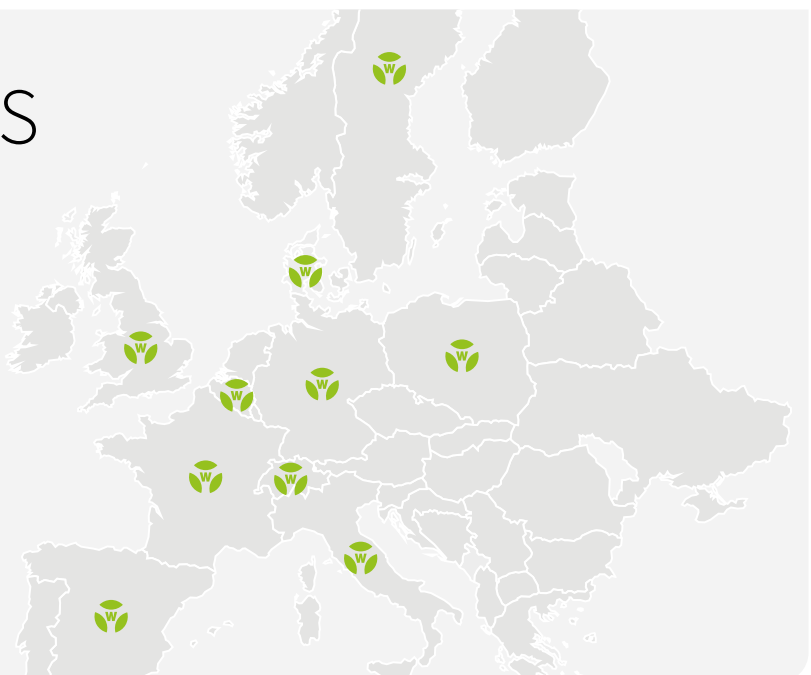
**EF Stock Exchange**  
Zurich

Wikimedia Commons, Micha L. Rieser

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- Germany
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- Poland
- Sweden
- Switzerland
- Spain

**Sales Partner worldwide:**  
<https://wie.li/salespartner>





## INFO TO GO

All brochures from Wieland Electric are available for download on our website.



<https://www.wieland-electric.com/en/support/downloads>

Interesting for you

### GESIS® CATALOG

Pluggable  
electrical installation  
Part No. 0670.1



### INSTALLATION COLUMN

Room installation and automation  
in an attractive housing  
Part No. 0404.1



### GESIS® NRG

Application examples  
for the flexible busbar  
Part No. 0663.1



**Wieland on YouTube**  
See our solutions  
in motion



<https://www.youtube.com/user/WielandElectric>



**Technical consultation**  
Building Solutions



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Email: [building@wieland-electric.com](mailto:building@wieland-electric.com)

Worldwide: <https://wie.li/contactinternational>



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Order easily and conveniently online,  
and check availability.

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# wieland

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