




CUSTOMIZED SOLUTIONS

DISTRIBUTION BOXES

From idea to implementation
and delivery to construction site.

A middle-aged man with short, light brown hair, smiling at the camera. He is wearing a dark navy blue suit jacket over a white button-down shirt. He is holding a small, blue and black electronic component, which is a system distribution box, in his hands. The background is a bright, white space with large, grey, diagonal architectural lines.

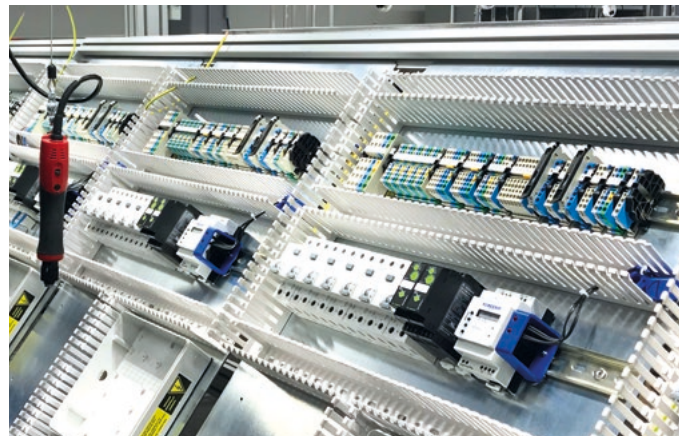
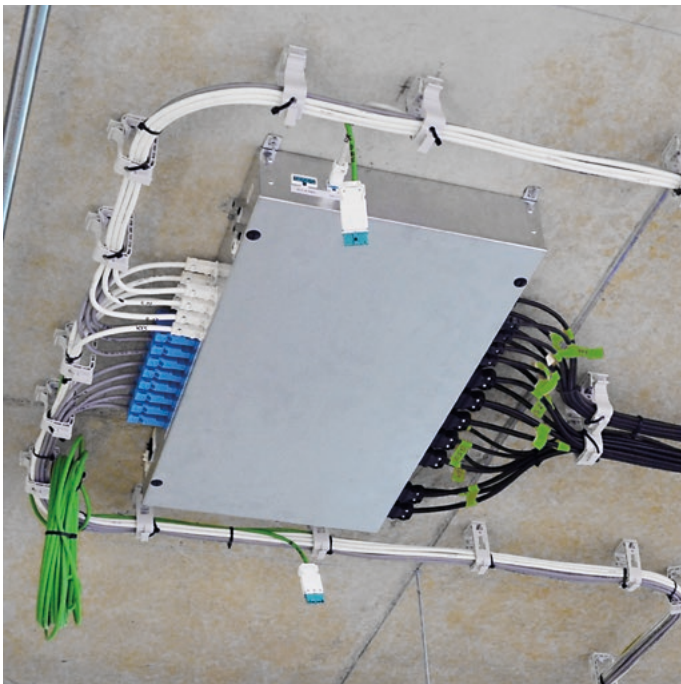
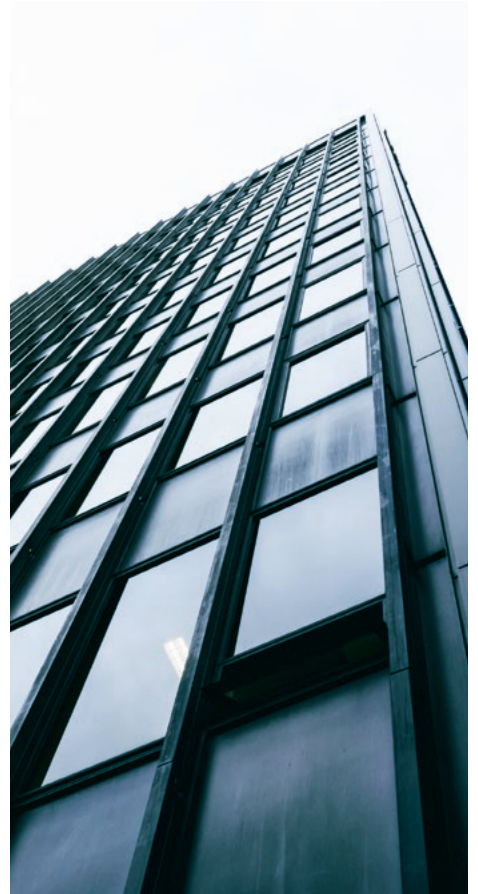
“With our smart system distribution box,
individual rooms or even entire
office stories can be reorganized,
even retroactively!”

ROBERT GERHÄUSSER

Head of Building Installation Sales Germany

SYSTEM DISTRIBUTION BOXES

- 04** Smart system distribution boxes for flexible buildings
- 06** Centralized and decentralized distribution
- 08** What our distribution systems offer
- 10** System diversity for your applications
- 12** From idea to implementation
- 14** Processes for planners and contractors
- 16** Pre-assembly for fixtures
- 18** Housing material + customized distribution box sizes
- 20** Electrical interfaces
- 22** Covers + openings + closures + fastenings
- 24** Markings + identification + individual & general tests
- 26** Your documents + miscellaneous
- 28** Specifications details + processing
- 30** Smart servicing + services
- 32** Underfloor distribution boxes gesis® RAN + order overview
- 34** Installation distribution boxes gesis® WIV + order overview
- 36** RST® + GST18® distribution boxes + order overview
- 38** Special construction of installation column + distribution solutions for your plant technology
- 39** Information and contacts



SMART DISTRIBUTION BOXES FOR **FLEXIBLE** BUILDINGS.

Wieland is your experienced and reliable partner for efficient + pluggable solutions for decentralized distribution boxes. Your projects benefit from smart and rational power & signal distribution solutions. Meet demanding planning and realization time lines with a flexible system capable of accommodating any future design changes.

Wieland will support you every step of the way,
from planning to delivery

- Our field sales staff will gladly offer you on-site advice
- Our project team will help you implement your solution and meet deadlines
- Our production team has years of experience in meeting project requirements
- Our office sales team will answer any other questions you may have



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 to define requirements, and draw-up the tender text and cost estimate that meets your system needs.



FINALIZING

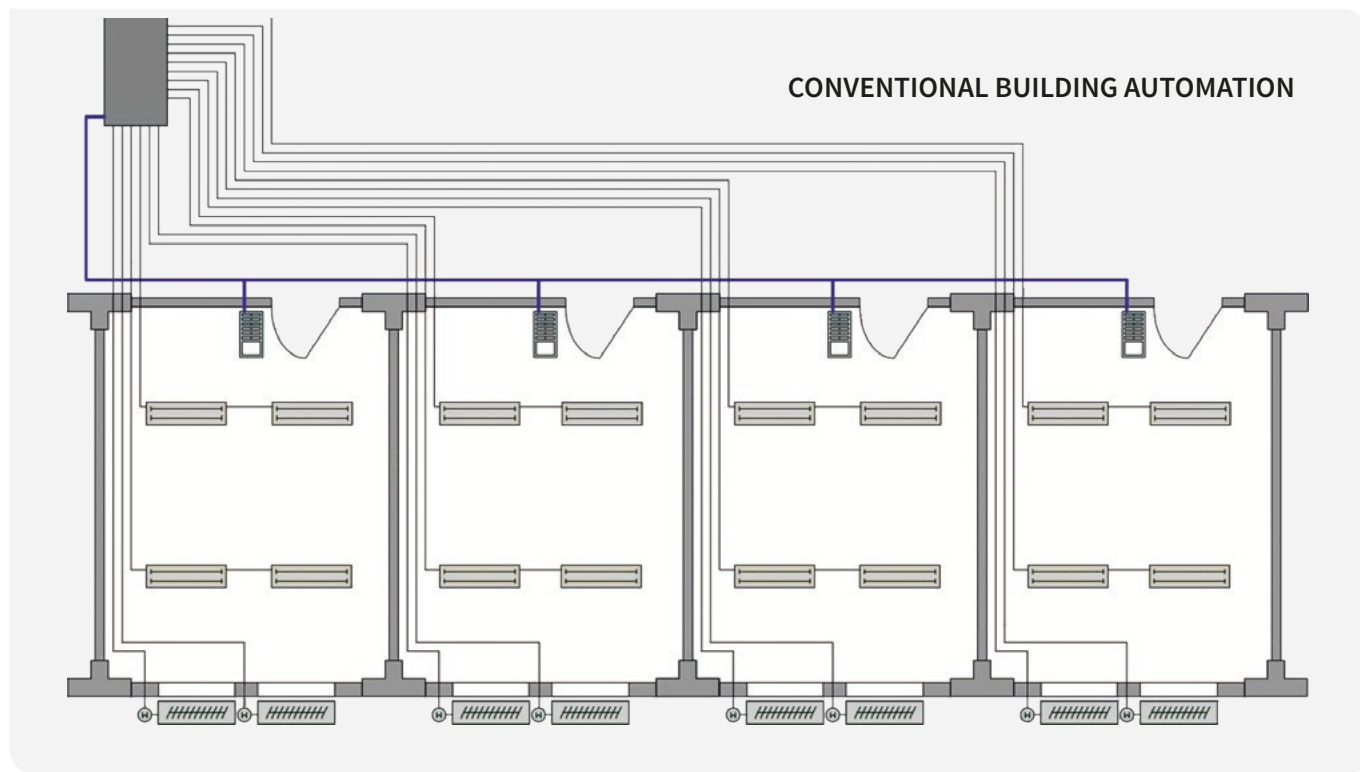
We will manufacture the distribution boxes according to your requirements, picked and delivered, together with other components, to your desired location.

WE OFFER:

- + DISTRIBUTION BOXES
- + ROOM AUTOMATION
- + BUILDING AUTOMATION
- + I&C DISTRIBUTION BOXES
- + LOAD/EXHIBITION DISTRIBUTION BOXES
- + DISTRIBUTION BOXES FOR OUTDOOR USE
- + POWER + SIGNAL DISTRIBUTION
- + MINI DISTRIBUTION BOXES

CENTRALIZED DISTRIBUTION

Equipment: 8 lighting groups, 8 sunblind groups, 4x local operation



CENTRALIZED SPECIFICATIONS

UTILITY ROOM (100 %):

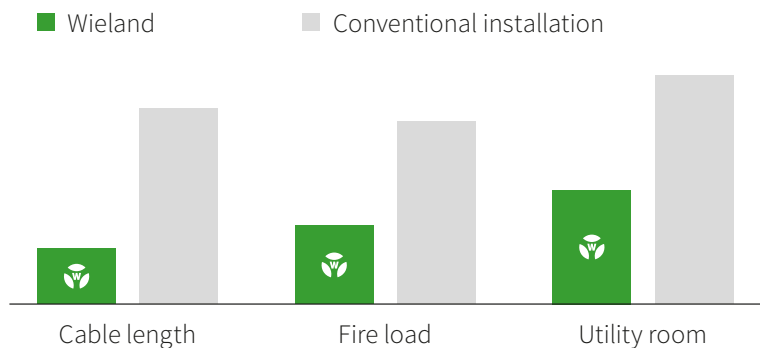
- 8 pitch units lighting actuators
- 8 pitch units sunblind actuators

CABLE LENGTHS (100 %):

- 85 m lighting ($3 \times 1.5 \text{ mm}^2$)
- 110 m sunblinds ($4 \times 1.5 \text{ mm}^2$)
- 25 m bus cable ($2 \times 2 \times 0.8 \text{ mm } \varnothing$)

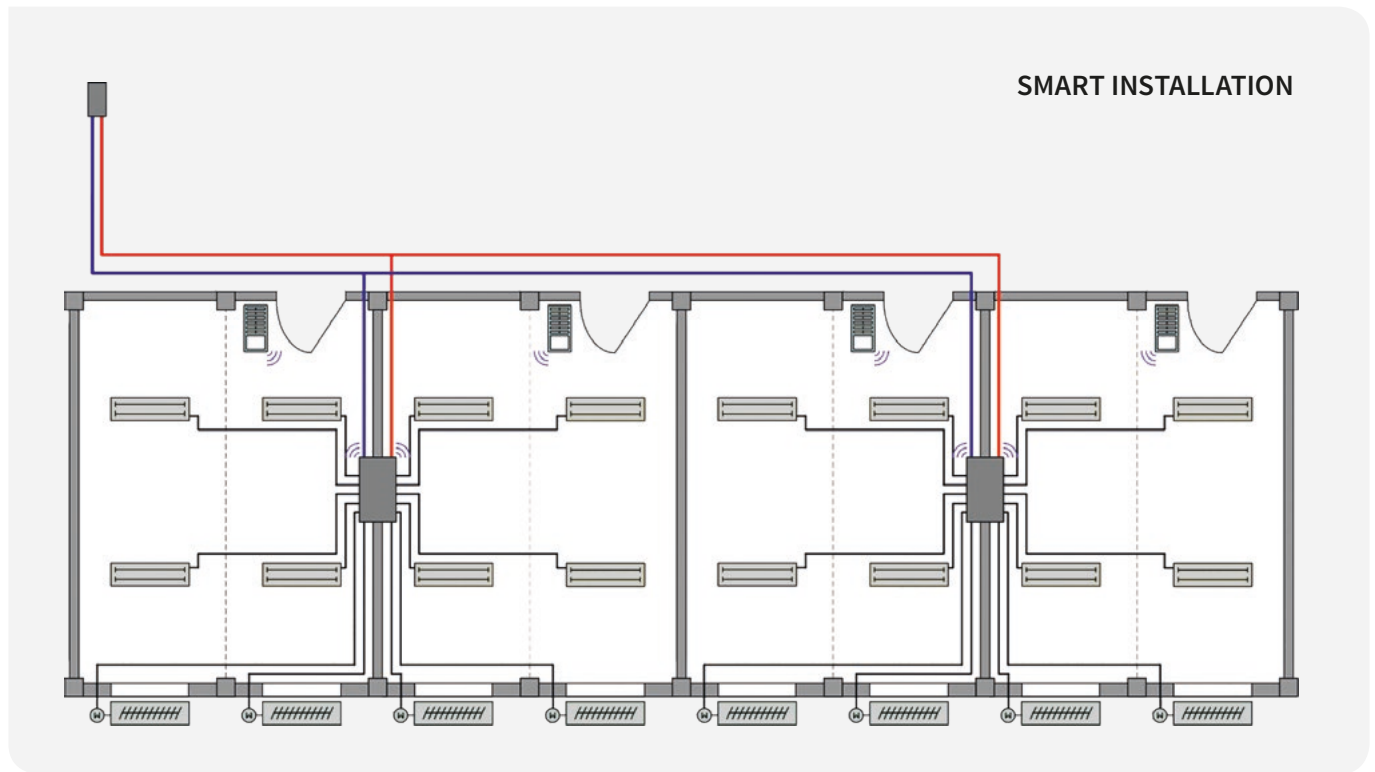
TRAY WIDTH (100 %)

- Copper (100 %)
- Fire load (100 %)



DECENTRALIZED DISTRIBUTION

Equipment: 8 lighting groups, 8 sunblind groups, 4x local operation



DECENTRALIZED SPECIFICATIONS

UTILITY ROOM (UP TO 50 %):

- 2 pitch units lighting protection
- 2 pitch units sunblind protection

CABLE LENGTHS (30 %):

- 15 m flat cable (5G2.5 + 2x 1.5 mm²)
- 25 m lighting (3G1.5 mm²)
- 25 m sunblinds (4G1.5 mm²)
- 4 m bus cable (2x 0.5 mm²)

TRAY WIDTH (60 %)

- Copper (50 %)
- Fire load (40 %)



ADVANTAGES

- Fast, easy, and safe installation
- Standardized interfaces for fast replacement
- High functional reliability through prevention of mismatching

YOUR BENEFITS

- + Reliable measurements of project costs & time lines
- + Easy planning – streamlined structures
- + Flexible room configurations now – in the future – safe

WHAT OUR DISTRIBUTION SYSTEMS OFFER.



APPLICATIONS FOR DECENTRALIZED INSTALLATION

- Distribution tasks, such as two separate networks
- Protection e.g. from a 10 mm² flat cable to 2.5 mm² local wiring
- Building automation devices
- I&C electronics
- Overvoltage protection
- Any combinations of the above



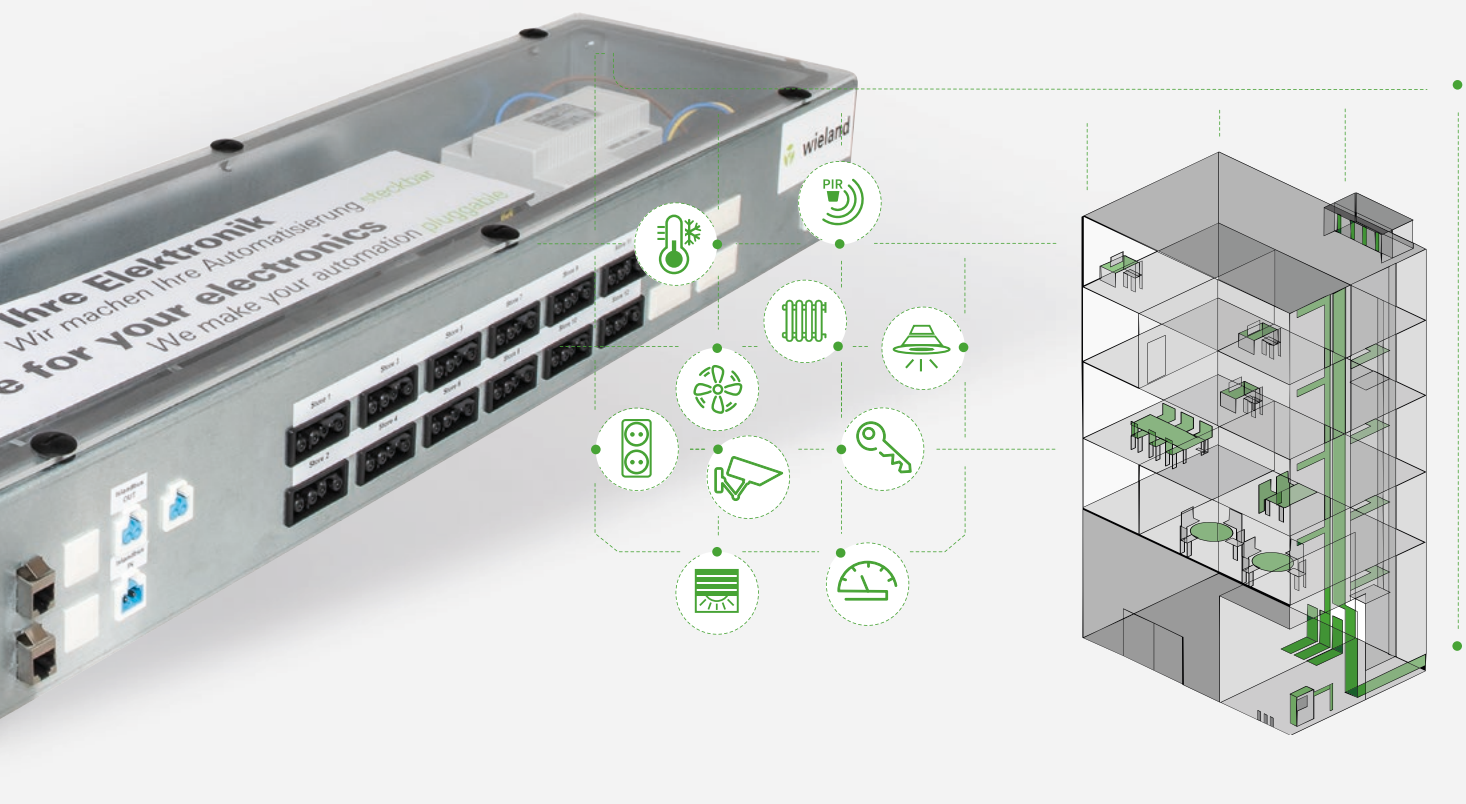
PLANNING

- Small units able to be planned effectively
- Reduced inventory with fewer different types per building.
- Customizable
- Eliminates the need for individual wiring terminal diagrams.
- Promotes straightforward cable layouts
- Cost savings through reduction in overall cable lengths
- Step-by-step Support from Wieland



SAFE INSTALLATION

- Reduced guesswork with a high degree of prefabrication
- Short installation times
- Less paperwork (plans are included with the delivery)
- Advance integration and clear interfaces



INTERFACES BETWEEN CONTRACTORS

- Pluggability makes cabling, installation and commissioning easy to separate
- The boundaries between responsibilities are clear
- Good coordination between companies is possible
- The construction process from cabling to commissioning is easy to organize
- In the event of an error, pluggability makes analysis simple



OPERATION

- Changes are easy to integrate
- Error localization is supported by pluggability
- System failures can be rectified by quickly replacing functional units
- With good pre-planning, extensions are easy to introduce



SYSTEM DIVERSITY FOR YOUR APPLICATIONS.

All distribution systems are custom-made, with virtually no limits on models and potential applications. We will be happy to advise you on your unique requirements.



I&C DISTRIBUTION SYSTEMS & BUILDING AUTOMATION

The distribution system can accommodate all I&C technology components that are needed for a building floor. We work closely with the contractors of the I&C systems of a building project.

- Inclusion of all I&C I/Os for one floor area
- Supplementing with power supply units
- Support point wiring
- Pluggable or direct connections
- Provision of electronics



SMART ROOM AUTOMATION

Coverage of defined areas with I/Os to automate lighting, sunblinds and room temperature.

- Inclusion of all I/Os of a room unit
- Supplementing with power supply units
- Support point wiring
- Pluggable or direct connection
- Electronics from Wieland or third party



MORE
INFO
PAGE 32

SMART POWER/SIGNAL DISTRIBUTION

These distribution systems are used to supply installation areas with energy or data. If necessary, they also take RCB/MCB on.

- Distribution of energy and data
- Decentralized protection
- Wiring of simple circuits

IP 6X DISTRIBUTION BOXES (OUTDOOR USE)

Waterproof and damp protection for systems exposed to weather conditions.

- Plastic housing from standard product ranges.
- Pluggable with RST®.
- Integration of all necessary components.



LOAD/EXHIBITION DISTRIBUTION SYSTEMS

These distribution systems enable temporary structures, such as exhibition stands, to be electrified quickly.

- Power input with CEE
- Connection to other distribution box with RST®POWER
- Protection with RCB/MCB
- Outputs pluggable with gesis®CLASSIC



MORE
INFO
PAGE 34

SMART MINI DISTRIBUTION BOXES

These can be pre-wired or even fully equipped. They are mainly used for distributing electric potential and also include circuitry if necessary.

- Distribution of power
- Prefabricated models
- Simple circuits
- Option to realize “distribution blocks” outside the standard range



MORE
INFO
PAGE 36

INSTALLATION COLUMN

This system distribution box model is used mainly in school renovation or construction.

- Inclusion of all automation devices for a room
- Quick and uncomplicated installation
- No interference with the fabric of the building/other works
- Creates the floor/ceiling link for cable routing



MORE
INFO
PAGE 26



FROM **IDEA** TO **IMPLEMENTATION**.



IDEA

Future-oriented building plans call for innovative solutions.
An installation that is decentralized and, if appropriate, pluggable allows for design upgrades and changes after implementation.



DESIGNING THE CONCEPT

We will gladly produce a concept for you to present to building owners or decision-makers.

TECHNICAL SUPPORT: Phone +49 951 9324-996 · E-mail: bit.ts@wieland-electric.com

CONTACT YOUR DESIGNATED ON-SITE CONTACT VIA OUR HEAD OFFICE:

Phone +49 951 9324-0 · E-mail: info@wieland-electric.com

**WORKING OUT THE DETAILS**

In the pre-planning and design development phase, we will assist you with the implementation of your plan through to the estimation of costs and, finally, the invitation to tender.

**INVITING TENDERS AND TENDERING**

The invitation to tender is on the market. The contractors will receive the tenders from us and will apply to execute the project.

**ORDERING**

The contractor will confirm the accuracy of the planned execution by signing the distribution plans. Manufacture of the distribution systems will be initiated.

**DELIVERY**

The individually tested distribution box, with additional picks as applicable, will be delivered to the desired address as agreed.

**FURTHER SERVICE**

If anything else arises, our team on site and in Bamberg will be on hand to help you whenever you need us.

THE PROCESS FOR YOU AS THE **PLANNER.**



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

1.

BASIC CONSIDERATION

A few fundamental questions should be clarified first.

- What functions are to be integrated?
- What electronics will be used?
- Which room units will be controlled?
- What construction space is available or will be needed?
- Will the plant installation be pluggable?

2.

CONSULTATION

Contact us to arrange an appointment to clarify the necessary details. The objective is to produce specifications for the system distribution box, to draw up the tender text, and to work out a cost estimate.

- Define electronics and fixtures
- Determine connection type
- Distribution box size and materials
- Optimize distribution box models and quantity structures
- Determine any necessary accessories, such as connectors or cable assemblies

3.

INVITING TENDERS

You tender for the distribution boxes and accessories.

- You receive a cost estimate from us
- We draw up the tender texts together (neutrally as well)
- We handle the queries from installers

4.

EXECUTION

The selected contractor orders the necessary components.

- Wieland project manager is appointed
- A layout plan and an EPLAN are created
- Final approval of the distribution boxes by the contractor is received
- The distribution boxes are manufactured and individually tested in accordance with applicable standards and guidelines
- Hand over of documents and plans to the contractor

THE PROCESS FOR YOU AS THE **CONTRACTOR.**



What will change in the installation and in the process?

1.

ANSWERING TENDERS

You create the cost calculation.

- A quotation is requested from Wieland Electric in line with the tender
- More precise specifications may be necessary based on the tender
- As the system distribution boxes are customized, a net quotation is produced

2.

FINAL DESIGN

After the contract has been awarded, you order the distribution boxes.

- A Wieland project manager is appointed
- Layout and wiring are agreed upon
- Optimizations are targeted based on the actual conditions
- Delivery and logistics are discussed
- Drawings are produced by Wieland Electric
- Client gives go-ahead for production
- Samples provided as applicable

3.

PRODUCTION AT WIELAND

The distribution boxes are made at Wieland in line with the agreements.

- Sheet metal (or plastic) is worked and coated if applicable
- Electronics or other devices are integrated and wired, and the distribution boxes is labeled accordingly
- The distribution boxes are tested individually

4.

DELIVERY

The distribution boxes are delivered to the desired location as agreed ready to be installed.

- We supply the distribution boxes picked, together with other components
- Delivery is made to the desired location on time by a forwarding agent

PRE-ASSEMBLY FOR **FIXTURES.**



ROOM FOR ALL ELECTRONICS

We fit any electronics into the distribution boxes.

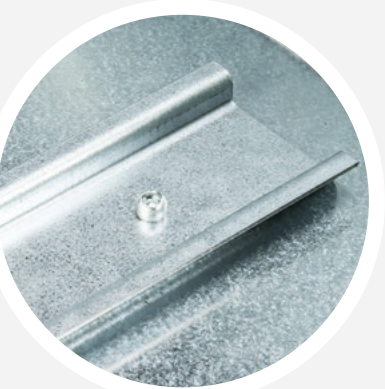
- I&C or automation devices supplied by third-party manufacturers
- Wieland room automation devices
- Wieland power supply units and overvoltage protection
- Terminal blocks for wiring
- MCB/RCB
- Consider adequate reserve



INTEGRATION OF DEVICES

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



THERMAL LOAD

Vents may be necessary for integrating devices with a higher power loss.



ACCESSIBILITY OF THE DEVICES

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

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



ELEMENTS FOR CABLE CONNECTION

Regardless of whether distribution boxes, pluggable or with cable entries, both models require built-in elements like snap-in or cable gland.

- Can generally be built into any outer walls
- Type of installation depends on type of connections
- Consider adequate reserve and furnished with blind covers
- Elements like snap-in or cable gland



SPECIFY WIRING

There are a few things to bear in mind so that the wiring is practical and conforms to standards. We will be happy to advise you.

- Type of cables (PVC, halogen-free, flammability)
- Temperature range of the cables
- Cable cross sections
- Separation of SELV from mains
- Laying in ducts



HOUSING MATERIAL

We use a wide variety of materials for the distribution box housing depending on the application, area of use, and customer wishes.



ZINK PLATED SHEET STEEL

Allows for the most options in distribution systems design. Standard material thickness is 1 mm.



POWDER-COATED SHEET STEEL

Zink plated sheet steel with high-quality powder coating in the RAL color spectrum is possible.

CUSTOMIZED IMPLEMENTATION

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



PLASTIC

Here we utilize standard market housing which is worked accordingly. Higher degrees of protection are achievable.

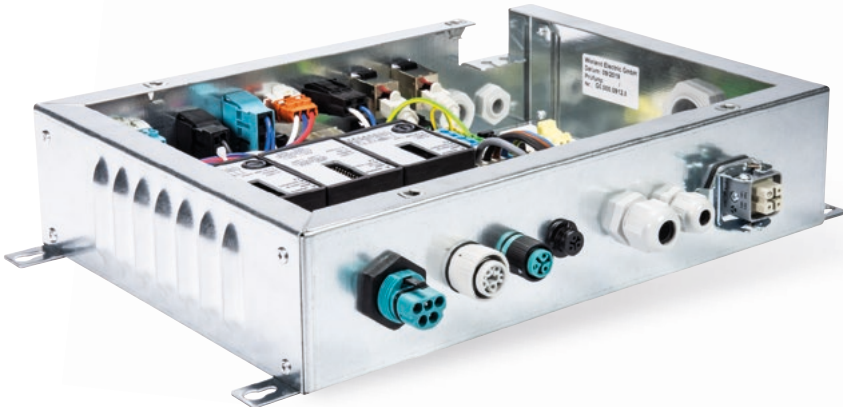


DIE-CAST ALUMINUM

If it needs to be really robust, standard market housing is used and worked.

CUSTOMIZED DISTRIBUTION BOX SIZES

Virtually any size can be realized! We supply distribution boxes that are the size of a pack of tissues all the way through to room-high installation columns.



SOLUTIONS

- Distribution boxes made from sheet steel are designed to be very flexible. If the space requirement for electronics and/or interfaces to the outside world exists, the installation space is also taken into account for the calculation of the dimensions
- For distribution boxes with electronics, a sufficient reserve absolutely must be built in for later adaptations
- For simple wiring tasks, the compact “Gray and Blackbox” distribution boxes, GST15/18, and RST® distribution boxes are often used
- For plastic housings and larger distribution boxes, we utilize standard products
- The largest distribution boxes are the installation columns which are usually required to be room-high or above 3 meters

FEATURES

- + Flexible implementation
- + Special forms also possible
- + Convenient installation and commissioning



ELECTRICAL INTERFACES

When it comes to planning electrical connections to the outside world, we will provide you with expert advice so that we can come up with the best possible solutions together. These range from 100 % pluggability to a simple strain relief, from a sensor cable to high cross sections or from data to power connections.



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 to prevent mismatching
- Many models



RST®

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



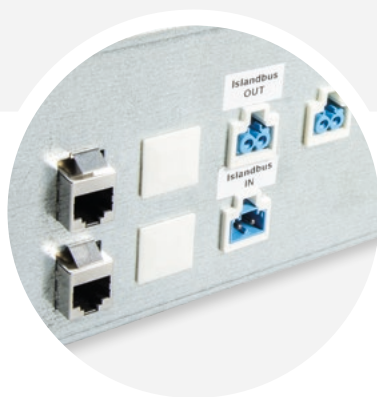
REVOS® INDUSTRIAL CONNECTORS

- Higher pole counts
- Very robust
- Hybrid connectors for signals and energy possible



FEATURES

- + Cable glands in all standard sizes
- + Blind covers possible
- + Convenient installation and commissioning



DATA CONNECTIONS

- Ethernet/PoE using connectors or various cable entries
- KNX/LON and other SELV systems using BST connectors
- DALI/SMI and other systems to be handled like 230 V using GST15/18 or RST®



CONVENTIONAL ENTRIES

- Cable glands in all standard sizes
- Plastic or metal
- Entry flange
- Comb rail for fixing cable in place



OTHER

- Cables connected directly, e. g. adapter on gesis® NRG 5G10 mm²
- Earthing connection bolts with standard setup for ring cable lugs
- Blind covers for Wieland connector systems
- Blind covers for cable glands

COVERS + OPENINGS



Cover protection
with chain



Cover protection with
chain and snap hook



All sheet steel covers have
a ground connection



Cover made of sheet steel
or coated



Full transparent cover
made of acrylic glass



Vents for better
heat dissipation



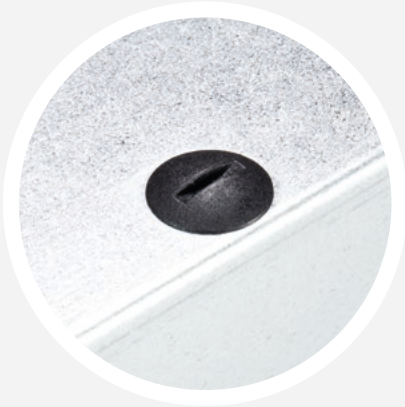
With hinged cover for
protected access (sealable)



Cut-outs for direct access
to control elements

CLOSURES + FASTENINGS

CLOSURES



90° quick lock



Screwed



Punch/stamp

FASTENINGS



Hole in the floor plate

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)

MARKINGS + IDENTIFICATION

Markings are vital for plant installation, commissioning and operation.
We will devise an informative marking concept with you for your distribution boxes.



SOLUTIONS

INPUTS/OUTPUTS

- Labels make every connection individually identifiable

ADDRESS STICKERS/BUS SYSTEMS

- To identify bus nodes, the ID number of the fitted devices can be attached externally, also as a QR code or barcode

GROUND CONNECTIONS

- Often identified by a stamp, but also by labels



IDENTIFICATION

- Label with article number and other details

INDIVIDUAL AND GENERAL TESTS

Quality goes without saying for us, and we monitor this constantly through various tests. Our distribution boxes meet the standards and regulations that are fundamental to the intended use. Wiring tests, for example, are performed in principle for every single piece. Custom tests, such as function tests, are performed upon request.



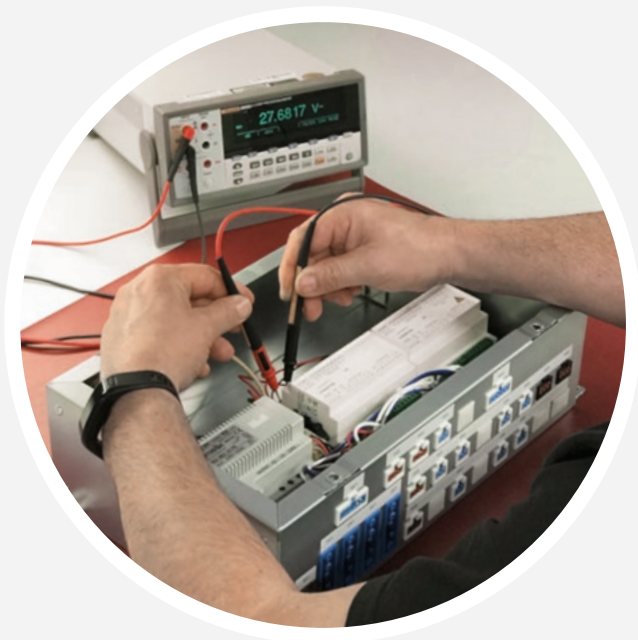
SOLUTIONS

CHECKING THE PLANS

- Before the distribution boxes are made, the plans are presented to our customers for confirmation

TESTS

- Visual inspections of the structures and wiring continuity checks are generally performed
- Function tests can be carried out by arrangement
- Test reports can be drawn up
- CE marking and corresponding conformity documents can be produced
- Distribution box production is supported by our laboratory and development department. Wieland Electric is DIN ISO 9001 and EMAS certified.



FEATURES

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



DOCUMENTATION FOR YOU



PLANS

WE DELIVER:

- Layout plans
- Wiring plans
- Parts lists
- All in PDF format

BY ARRANGEMENT WE DELIVER:

- Paper
- EPLAN, wiring
- 3D data
- Layout dxf
- 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 pallet
- To the construction site and optionally also within a preset time frame
- To your warehouse
- With our logistics partner
- By the forwarding agent chosen by the customer by arrangement

PICKING OPTIONS:

- Distribution box per area units
- Plus cables
- Plus accessories
- Plus plug sets

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

MISCELLANEOUS



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
- Neutral tender texts
- Invitations to tender in the corresponding Word and GAEB formats; other formats on request



EXTRAS/THIRD-PARTY ARTICLES

- Purchase by Wieland Electric, unless agreed otherwise
- MCB/RCB circuit breakers or similar electrical installation devices
- Relay modules
- Simple electronics, such as transformers, power supply units or LED drivers

WE PRE-ASSEMBLE FIELD DEVICES:

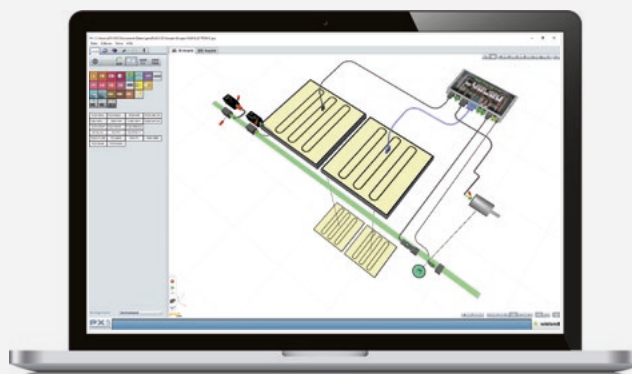
We pre-assemble all kinds of field devices, such as valves, with the plug connections required for connection to the distribution box.

GESIS® PLAN

THE CONCEPTUAL DESIGN TOOL

Architects and electrical planners cannot perform their jobs without software planning tools, especially when reliable information regarding project scope, scheduling and cost estimates is required.

Wieland Electric offers the gesis® PLAN software for planning pluggable electrical installations with gesis®. This conceptual planning tool uses CAD building data to generate installation drafts as well as parts and price lists.



GESIS® PLAN OFFERS:

- Option to import DWG/DXF/JPG/PNG (PDF) files
- Use of assembly levels
- Placement of components in the room
- Laying of cables in the room
- Conflict check (voltage drop, etc.)
- Generation of parts lists
- Animation of drawings

GESIS® PLAN IS FREE:

Be a smart planner too and request gesis® PLAN by e-mail free of charge:

gesisplan@wieland-electric.com





SPECIFICATIONS DETAILS + PROCESSING

1.

DISTRIBUTION BOX SIZE

The size of the distribution box must be defined first. This is dictated by the following key points.

- Define fixtures, e.g. using the functions
- Define interfaces to the outside world
- Optimize distribution box types
- Build in reserves
- Pay attention to structural conditions

2.

SPECIFY DISTRIBUTION BOX

The details of the mostly mechanical properties of the distribution box are hammered out here.

- Define IP protection rating
- Distribution box material
- Coating/lacquering
- Type and function of the cover
- Type of fastening
- Type of electrical connection (terminals or plugs)
- Type of cable entry

3.

FINALIZE DISTRIBUTION BOX

Define all services.

- Distribution box marking
- Type of documentation
- Other data required (certificates)
- Define inspection plan

4.

ACCESSORIES + DELIVERY PACKAGE

What is needed that is peripheral to the distribution box which must be included in the invitation to tender?

- Connector sets
- Cable assemblies
- Pre-assembled sensors/actuators for external placement
- Special delivery wishes, such as delivery picked based on progress of construction/area plan

5.

INVITATION TO TENDER + COST ESTIMATE

Once points 1–4 have been completed, tenders are invited/ costs are estimated.

- Tender text is drawn up by Wieland and checked by the planner
- The distribution box costs are estimated for the planner
- The invitation to tender is finalized

6.

CONTRACT PLACEMENT + ORDERING

Wieland guarantees optimal order fulfillment.

- Tender creation in accordance with invitation to tender to the requesting companies
- Order placement with Wieland after approval of the now issued layout and wiring plans
- Delivery as agreed (schedule, delivery quantities, picking)



SMART SERVICING + SERVICES



PLANNING SUPPORT

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

- Planning the dimensions
- Conceiving and defining electrical interfaces
- Planning the installation
- Planning the fastenings



INVITATIONS TO TENDER

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

- With neutral wording for public invitations to tender
- In text form (.txt or .docx)
- In GAEB
- Also in other formats by arrangement



EXECUTION DOCUMENTS

The necessary documents for the distribution boxes are provided digitally, and also in another format as an option according to customer wishes. This saves our customers a lot of detail work.

- Mechanical layout plans
- Electrical wiring plans
- Parts lists



INTEGRATION COMPONENTS

Functional components such as circuit breakers, automation devices, power supply units and so on have to be integrated into the distribution box.

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



PICKING OF DELIVERIES

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

- For predefined units, e.g. stories
- Distribution boxes including external cables, connectors etc
- Pre-assembled, external field devices (valve actuators, dew point monitor etc.)



CALCULATIONS, STANDARDS, TESTS

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

- Individual testing
- Power loss calculation
- EMC inspection
- 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
- Applying the IDs of integrated or specified devices
- Applying the plant ID
- Creating barcode or QR code

UNDERFLOOR DISTRIBUTION BOXES

GESIS® RAN

High-level safety and complex structures call for a distribution box system that meets all economic and technical requirements. Our prefabricated solutions enable an optimized construction process. The distribution box concerned is connected for the first time by a qualified specialist. In further construction progress or expansion, the floor tanks to be supplied are connected only by plugging the distribution box. Obviously, we supply the floor boxes to the site as ready-to-plug parts.



FEATURES

- + Initial connection with RST® pluggable or with cable gland and terminal blocks
- + Housing material 1 mm zink plated sheet steel
- + Housing cover with quick-release fastener
- + Protection rating IP20
- + Exterior earthing connection
- + Internal wiring 2.5 mm²



PLACE OF USE

- Connection of floor boxes in offices or similar application
- Energy for one or two electric circuit
- Installation in raised floors

YOUR BENEFITS

- Quick assembly
- Flat design
- High degree of prefabrication
- Individually tested distribution boxes
- Optimization of the construction process
- High flexibility with alteration measures



GESIS® RAN · ORDER OVERVIEW



Name	gesis® RAN	gesis® RAN	gesis® RAN	gesis® RAN	gesis® RAN	gesis® RAN
Art. No.	G0.000.0632.5	G0.000.0087.8	G0.000.0632.6	G0.000.0093.1	G0.000.0632.7	G0.000.0623.1
Application	Three-phase/AC distribution Two electric circuits e.g. raw and clean power		Three-phase/AC distribution One electric circuit Output connector black		Three-phase/AC distribution One electric circuit Output connector white	
Input	RST20i5 plug	M25 cable gland	RST20i5 plug	M25 cable gland	RST20i5 plug	M25 cable gland
Mains 1	Black		Black		Gray	
Mains 2	Gray					
Connection	Pluggable	To terminal blocks	Pluggable	To terminal blocks	Pluggable	To terminal blocks
Voltage	2 x 230/400 V	2 x 230/400 V	1 x 230/400 V	1 x 230/400 V	1 x 230/400 V	1 x 230/400 V
Current	16 A	16 A	16 A	16 A	16 A	16 A
Outputs (pluggable)	GST18i3	GST18i3	GST18i3	GST18i3	GST18i3	GST18i3
	230 V/16 A each	230 V/16 A each	230 V/16 A each	230 V/16 A each	230 V/16 A each	230 V/16 A each
Mains 1	GST18i3 black	GST18i3 black	GST18i3 black	GST18i3 black	GST18i3 white	GST18i3 white
	2 x L1	2 x L1	2 x L1	2 x L1	2 x L1	2 x L1
	2 x L2	2 x L2	2 x L2	2 x L2	2 x L2	2 x L2
	2 x L3	2 x L3	2 x L3	2 x L3	2 x L3	2 x L3
Mains 2	GST18i3 white	GST18i3 white	-	-	-	-
	2 x L1	2 x L1				
	2 x L2	2 x L2				
	2 x L3	2 x L3				
Technical features						
100 % pluggable	Yes	-	Yes	-	Yes	-
Wired with terminal strip	-	Yes	-	Yes	-	Yes
Earthing connection	Yes	Yes	Yes	Yes	Yes	Yes
Protection rating	IP20	IP20	IP20	IP20	IP20	IP20
Mounting option	Yes	Yes	Yes	Yes	Yes	Yes
Cover	Quick-release fastener	Quick-release fastener	Quick-release fastener	Quick-release fastener	Quick-release fastener	Quick-release fastener
Housing material	Sheet steel 1 mm, zink plated	Sheet steel 1 mm, zink plated	Sheet steel 1 mm, zink plated	Sheet steel 1 mm, zink plated	Sheet steel 1 mm, zink plated	Sheet steel 1 mm, zink plated
Dimensions						
Depth	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm
Width	300 mm	300 mm	150 mm	150 mm	150 mm	150 mm
Height	45 mm	45 mm	45 mm	45 mm	45 mm	45 mm

INSTALLATION DISTRIBUTION BOXES GESIS® WIV

Our entirely pluggable surface-mounted installation distribution boxes impress at trade fairs, events, and similar gatherings where safe and extremely quick electrical installations are required. They are optionally equipped with GST15, GST18®, RST®, and Schuko connections, which are protected with residual current and circuit breakers. The distribution boxes are built in accordance with IEC 61439. Further installation can be carried out according to IEC 60364-7-711 and IEC 60364-7-7400.



PLACE OF USE

- Exhibition stand construction, lighting and stage technology
- Construction sites indoors and in protected outdoor areas with RST®
- Fairground rides and stalls
- 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 distribution boxes can be delivered with measuring device
- + Distribution boxes inter-combinable with RST®
- + Universal mounting bracket
- + Infeed via CEE or RST® power connection



GESIS® WIV · ORDER OVERVIEW



Name	gesis® WIV	GST15 20kVA	GST15 40kVA	GST18 20kVA	GST18 20kVA	GST18 40kVA	GST18 40kVA	RST20 20kVA	RST20 40kVA
Art. 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
Art. 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 Schuko socket	3 x 1-phase 230 V 1 x Schuko socket	2 x 1-phase 230 V 2 x Schuko socket	3 x 1-phase 230 V 1 x 3-phase 230/400 V 2 x Schuko socket	3 x 1-phase 230 V 1 x Schuko socket	3 x 1-phase 230 V 1 x Schuko 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. fusing)	RST 32 A input	CEE 63 A input	RST 32 A input	RST 32 A input	CEE 63 A input	CEE 63 A input	RST 32 A input	CEE 63 A input

Routing with

		RST 50			RST 50	RST 50		RST 50
--	--	--------	--	--	--------	--------	--	--------

Dimensions

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

GENERAL TECHNICAL DATA FOR THE SERIES

Housings	Robust polycarbonate
Color housing	Electric gray
Switchgear and controlgear assemblies	IEC 61439
Output protection	RCCB 4-pole/40 A/30 mA; MCB-B16
Routing protection	MCB-B32
Additional feature	All distribution boxes can be delivered with measuring device
Ambient conditions	For dry rooms only
Protection rating (unplugged)	IP20
Protection rating (plugged)	IP40 With RST20 IP65
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:

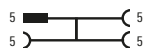
- Measuring device integrated into the front of the distribution box
- Multilingual display for reading and configuring
- Display of over 30 electrical measurements, such as electricity, voltage, current power, and apparent, active, and reactive energy

DISTRIBUTION BOXES RST®

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

RST® distribution boxes are available both as empty housings and pre-equipped. They are suitable for use in areas in which increased IP protection is required.

RST® COMPACT DISTRIBUTION BOX



Name	Art. No.	PU
RST® COMPACT, 5-pole network distribution box, 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



INFOS TO GO

The distribution boxes presented on this double page are example applications.

For further information and versions of the relevant distribution boxes series we recommend you:



RST® CATALOG

Pluggable electrical installations
with the highest IP rating (IP6x)
Art. No. 0690.1



GESIS® CATALOG

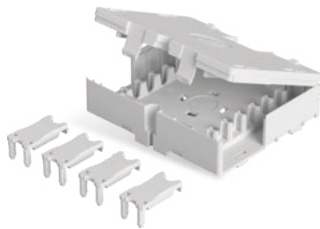
Plug-in electrical installations
Art. No. 0670.1

DISTRIBUTION BOXES GST18®

Distribution boxes for customized equipping in the IP 20 application range.

The distribution boxes can be individually equipped and stacked. This enables small distribution boxes to be created for which there are no ready distribution blocks, for example.

GST18® DISTRIBUTION BOX



Name	Art. No.	PU
Empty housing with 4 locks for GST18®	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.

GST18® Blackbox for simple energy distribution points and switching wiring.

This ranges from three-phase/AC splitters to distribution of two circuits and through to simple switching wiring for non-automated offices.

GST18® BLACKBOX



Name	Art. No.	PU
GST18® BLACKBOX, 3-pole distribution box, 1 IN, 5 OUT	99.234.0028.0	1
GST18® BLACKBOX, 5-pole three-phase/AC distribution box, 1 IN, 7 OUT	99.237.0028.0	1
GST18® BLACKBOX, 3-pole distribution box, 1 IN, 7 OUT	99.238.0028.0	1
GST18® BLACKBOX, 5-pole three-phase/AC distribution box, 1 IN, 7 OUT, salmon red	99.281.0028.0	1

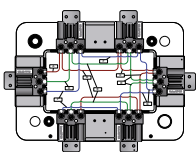
TECHNICAL DATA

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

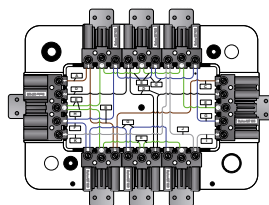
Customized connections available on request.

WIRING

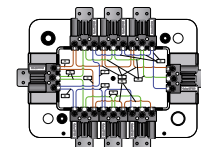
GST18® 3-pole distribution box (99.234.0028.0)
1 IN 230 V; 16 A; 3-pole plug, black
5 OUT 230 V; 16 A; 3-pole socket, black



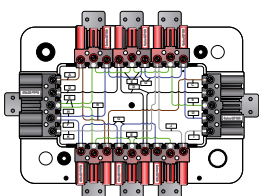
GST18® three-phase/AC distribution box (99.237.0028.0)
1 IN 230/400 V; 16 A; 5-pole plug, black
1 OUT 230/400 V; 16 A; 5-pole socket, black
6 OUT 230 V; 16 A; 3-pole socket, black



GST18® 3-pole distribution box (99.238.0028.0)
1 IN 230 V; 16 A; 3-pole plug, black
7 OUT 230 V; 16 A; 3-pole socket, black



GST18® three-phase/AC distribution box; outputs salmon red (99.281.0028.0)
1 IN 230/400 V; 16 A; 5-pole plug, black
1 OUT 230/400 V; 16 A; 5-pole socket, black
6 OUT 230 V; 16 A; 3-pole socket, salmon red



THE **INSTALLATION COLUMN** FOR **SCHOOLS** AND **SIMILAR BUILDINGS.**

- + As sub-distributor in the classroom
- + Ideal for retrofits (digitization)
- + Different decors and models
- + Customized automation solution



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Do you require flexible and extendable distribution solutions for your machinery or plants? From development through to series production, we are a one-stop shop for all services.

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- + Customized equipping
- + Customized express production
- + Installation-ready cabling





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



GESIS® ELECTRONIC

Decentralized building automation
via plug & play
Part No. 0700.1



GESIS® NRG

Application examples for
the flexible busbar
Part No. 0663.1



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