

gesis® ELECTRONIC

# ROOM **AUTOMATION**

Decentralized room automation with PLUG & PLAY  
Catalog 2021

# HELLO WIELAND ELECTRIC


**Tradition and innovation - Wieland is representing the synergy of these two guiding principles for more than 100 years.**

At Wieland Electric, we are proud to be the world market leader in electrical connections, and have been focusing on safe and innovative technologies since our founding. The beginnings of our success lie in the legendary Wieland Clamp, the first-ever safe electrical connector. Since then, innovation has pushed us to develop safer and more efficient ways to electrify the world.

Expanding from a component-only manufacturer, we are now one of the leading suppliers of innovative, future-oriented, and complete electrical solutions. We divide our focus into two main areas, Building and Industry. Our Building Solutions focus on decentralized power distribution and pluggable connections in all kinds of architectures and infrastructures. From in-store displays and lighting to hospitals and airports, and any structure in between – you build it, we power it! Our Industry Solutions center around functional safety for machines, industrial networking (IIoT and VPN), and power distribution. At Wieland, we keep your productivity going in mechanical engineering, wind power, material handling, thermo-processing, HVAC, and many other industries.

We are at our customers' side in every step of the project, right from the start. Our experts offer consulting, on-site services, and technical support. We see ourselves as service providers, trainers and subject-matter experts.

  
**1910**  
Founded in  
Bamberg

  
**1.600+**  
Employees  
worldwide

  
**6**  
Production  
sites

  
**70+**  
Countries  
worldwide

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# GESIS®

## FLEXIBLE + COST-EFFECTIVE ROOM AUTOMATION

As an experienced and reliable partner, we can help you satisfy your building requirements with safety, efficiency, and pluggability. For over 40 years, we have been offering smart solutions with our connector systems for building and room automation, power supply and lighting installations.

When planning and implementing efficient buildings, important factors for the future operation must be taken into account, like economic efficiency and adaptability of the property. Our modular and very flexible gesis® system and the automation series gesis® FLEX enable versatile applications within buildings.

Since room lighting, air conditioning and blind control are regulated as it is needed, energy and operating costs are reduced significantly. Even extensions, room conversions and changes can be implemented easily and effortlessly.

### THE SYSTEM FOR:

- + HOSPITALS
- + RETIREMENT AND NURSING HOMES
- + ADMINISTRATION BUILDINGS
- + HOTELS
- + SCHOOLS
- + FUNCTIONAL BUILDINGS



### ECONOMICAL PLANNING CAPABILITY

The gesis® connector system ensures that schedules and project flows can be calculated and guarantees standardized quality in planning and execution.



### SUSTAINABLE PROCESS QUALITY

gesis® is the standardized interface for all building installation and automation jobs. The mechanical coding reliably prevents mismatching.



### QUICKER ASSEMBLY

Our pluggable components minimize assembly times thanks to well-conceived interface technology and diversified connection technologies with prefabricated cable sets.

# COST REDUCTION THROUGH DECENTRALIZED INSTALLATION.

Cabling based on smart installation concepts creates clear installation structures. In combination with pluggability, this leads to a system that can be installed quickly and safely. Consistent three-phase cabling up to just before the consumer also reduces the voltage drop, which increases energy efficiency.

## INSTALL SMARTLY – EXPLOIT POTENTIAL

With our gesis® installation system, we have revolutionized electrical installation. High-quality and durable components boast impressive 70% time and 30% cost savings! gesis® has been conceived in the style of a modular system: all the product groups complement each other and enable smart and cost-effective electrical installation, from distribution to the consumer.

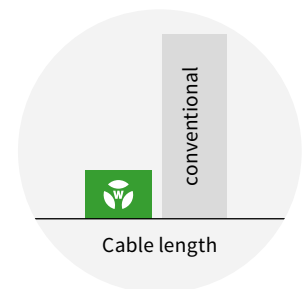


gesis® connectors  
safe + fast + flexible

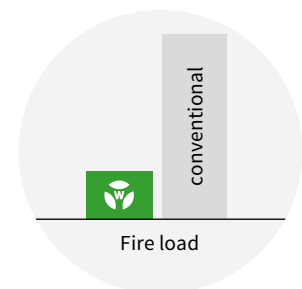
## PLAN EFFICIENTLY + COST-EFFECTIVELY

Smart building automation can sustainably reduce the energy needs of a building. Our highly flexible system, which is founded on the basic idea of a bus-based system, offers a highly economical platform for your construction projects with its pluggable installation components. The initial investment in automation technology pays for itself in just a few years of operation. Any later changes of use throughout the life cycle of the building can be implemented easily.

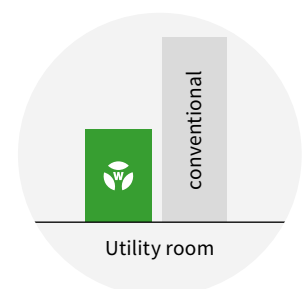
Our decentralized and pluggable products demonstrate their full added value in terms of speed and lasting cost effectiveness especially with projects involving a large number of identical rooms.



Cable lengths with Wieland:  
roughly 30% of conventional



Fire load therefore  
roughly 30%



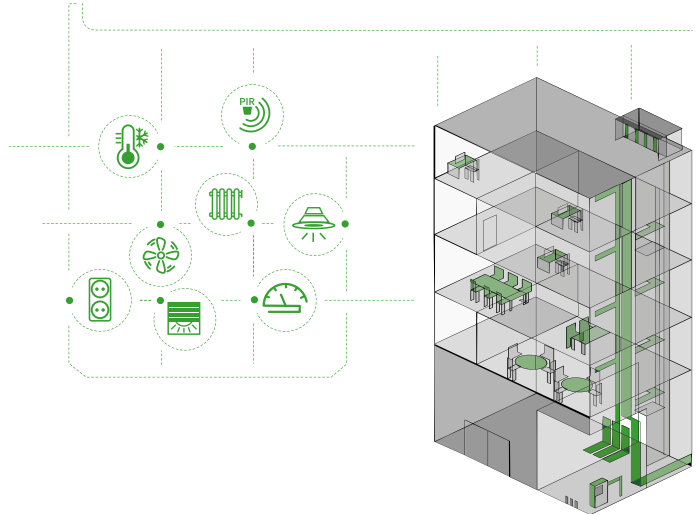
Utility room  
reduced to 50%!



# SYSTEM COMPARISON

## ADVANTAGES OF DECENTRALIZED INSTALLATION

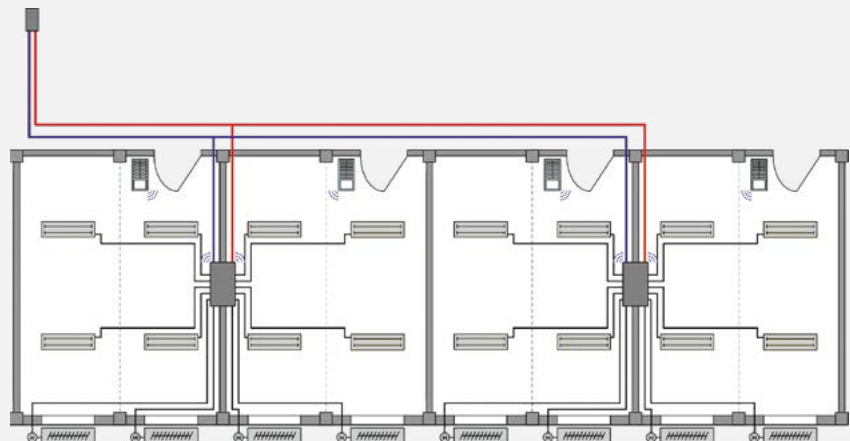
- Creates simple, future-proof structures
- Horizontal main supply as standard
- Vertical supply in strands from the distribution Only the protection devices (RCB/MCB) and the bus system devices remain in the main distribution unit
- Smaller utility rooms increase net floor area
- Loophrough of energy and bus signals
- Room automation is placed directly in the room

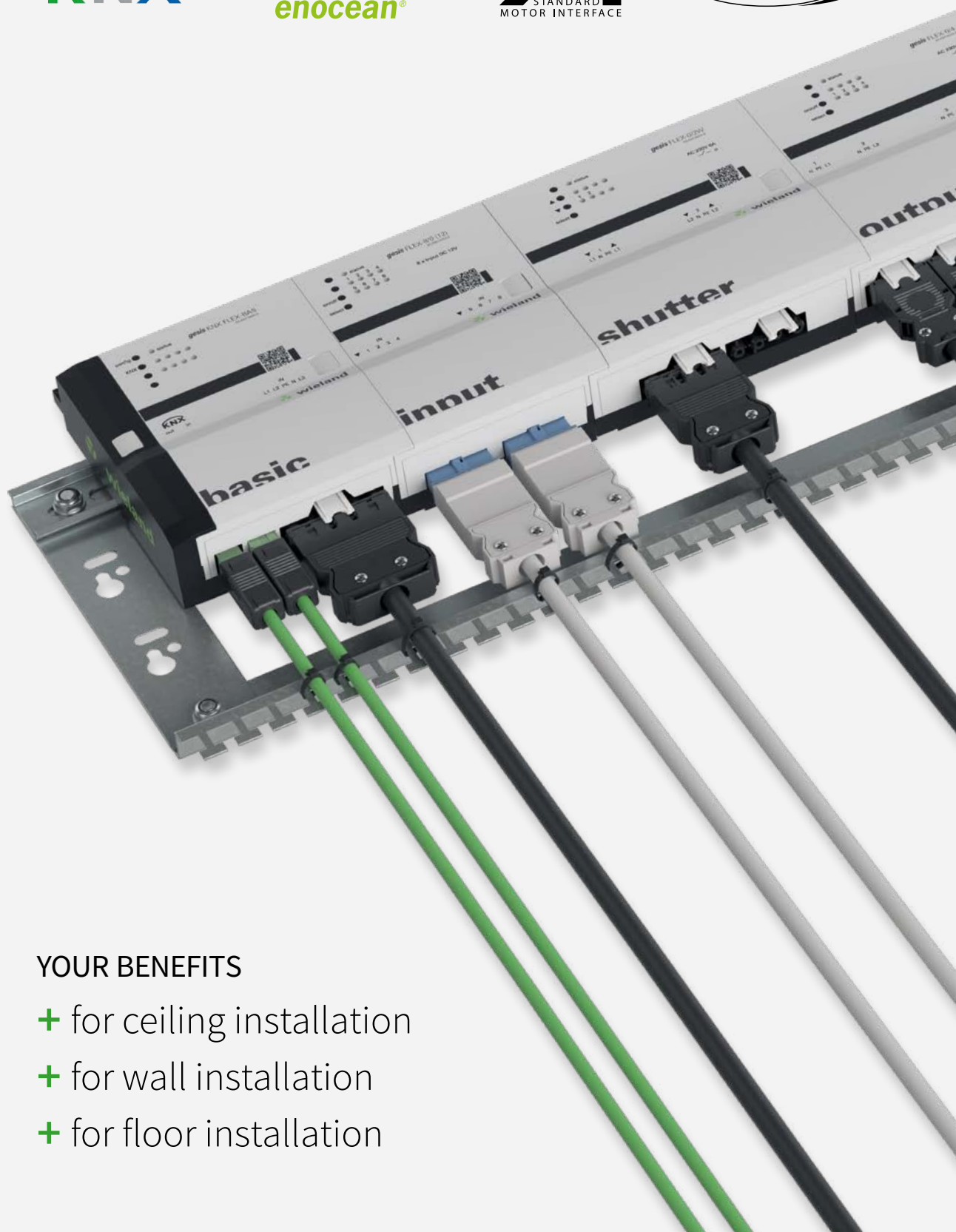


## CONVENTIONAL CENTRALIZED INSTALLATION



## DECENTRALIZED SMART INSTALLATION





## YOUR BENEFITS

- + for ceiling installation
- + for wall installation
- + for floor installation



# GESIS<sup>®</sup> FLEX

## THE DESIGN MAKES ALL THE DIFFERENCE.

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### COMPACT

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- Flat design
- Ideal for floor, wall, ceiling, cable duct
- Easy integration into new and renovated buildings

### VERSATILE

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- 15 different extension modules available
- EnOcean and SMI gateway
- Fan coil control

### MODULAR

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- Only required functions are installed
- Only one physical address
- 6 extension modules per base module, optional assignment

### EASY TO ENGINEER

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- Modular planning
- Standardized functions
- Standard modules – no project-specific products
- No wiring plans required

### EASY TO INSTALL

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- Optimum installation in false floors or on/under cable ducts
- All cables from one side
- Quick mounting accessories
- Plugging instead of wiring

### EASILY COMMISSIONED

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- Integrated manual operation
- Pre-function test without bus connection
- Exchange of extension modules does not require re-programming

### PLUGGABLE

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- 100 % pluggable modular system
- Pluggable input/output cables
- Quick and error-free installation

### DECENTRALIZED

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- Significantly reduced cable lengths
- Functionality during bus failure
- Smaller sub-distribution / utility rooms

### FUTURE-PROOF

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- Standardized bus systems
- Easily extendable due to pluggability
- Rail-mounted devices can be integrated

## APPLICATION

# FUNCTIONAL BUILDING



## USAGE AREA

Compact, modular, and pluggable electrical installation and room automation for offices, laboratory and testing facilities, canteens.



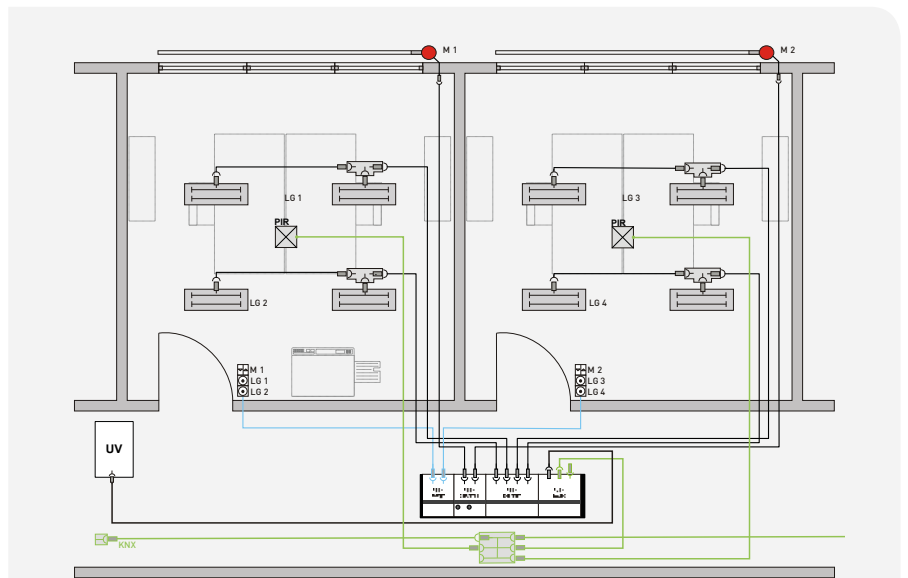
## SOLUTIONS

- Decentralized, modular room automation with gesis® FLEX
- Daylight-dependent lighting control
- Local and centralized sunshade control
- Installation solutions for floor, wall, ceiling



## ADVANTAGES

- Clear and neatly arranged room functions
- Fast, easy planning and installation
- Very flat design for mounting in low installation spaces
- Simple adjustments for change of use
- Flexibility secures long-term value of the property



## OFFICE ROOM AUTOMATION

- Need-oriented lighting control
- Sunblind control with local fuse
- Integration of conventional buttons





APPLICATION

# EDUCATION / CONFERENCE



USAGE AREA

Compact, modular, and pluggable electrical installation and room automation for classrooms, staff rooms and administrative offices, sports halls and gyms, break rooms and common rooms.



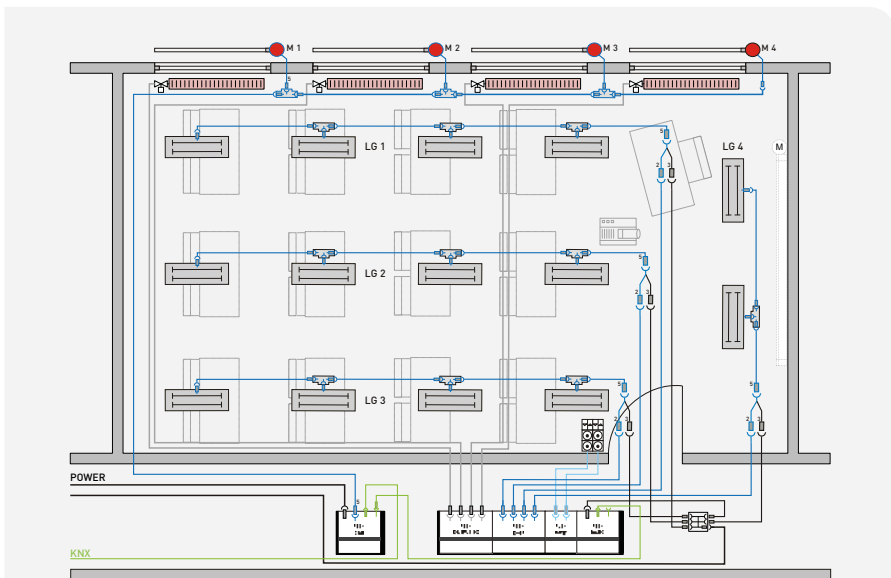
SOLUTIONS

- Decentralized, modular room automation with gesis® FLEX
- Presence monitoring for lighting control and energy optimization
- Room temperature control
- Sunshade control



ADVANTAGES

- Fast, easy planning and installation
- Sustainable reduction in energy consumption
- Decentralized room automation, ideal for renovation
- Easy to engineer
- High functionality for building automation



ROOM AUTOMATION OF CLASS ROOMS

- DALI lighting control
- SMI Sunshade control
- Semiconductor output for heating valve control
- Integration of conventional buttons



## APPLICATION

# MEDICAL / CARE SECTOR



## USAGE AREA

Compact, modular, and pluggable electrical installation and room automation for patient rooms, administrative areas, examination rooms, kitchens, common rooms as well as outpatient / care areas.



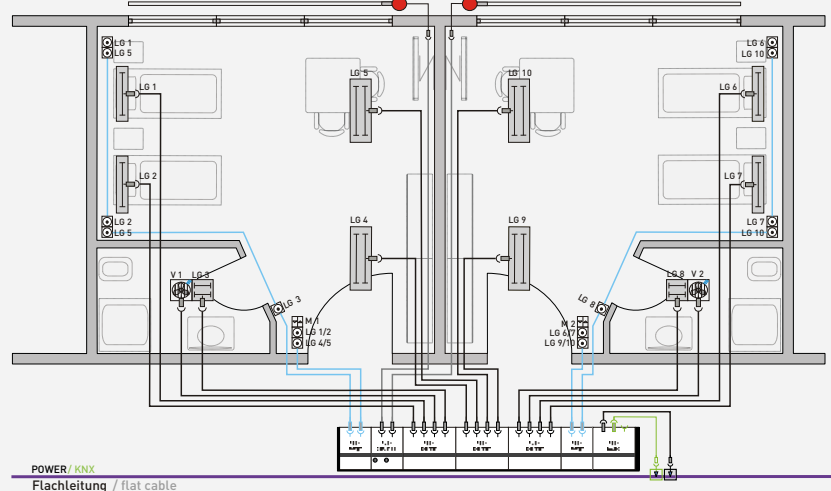
## SOLUTIONS

- Decentralized, modular room automation with gesis® FLEX
- Color-coded and mechanically coded connector systems
- Pre-assembled, waste-free electrical installation
- Occupancy-dependent room temperature control
- Sunshade control



## ADVANTAGES

- Safe, clean, and clear installation
- High availability of room automation
- Standardized room installation (patient rooms)
- Easy renovation due to decentralized room automation
- Automation functions can be easily implemented



## ROOM AUTOMATION OF PATIENT ROOMS

- Light control
- Ventilation control (for wet areas)
- Shading control with local fuse
- Integration of conventional buttons





## APPLICATION

# HOTELS



## USAGE AREA

Compact, modular, and pluggable electrical installation and room automation for hotel rooms, operational areas (kitchen, restaurant), administrative areas, conference rooms, event areas, foyers.



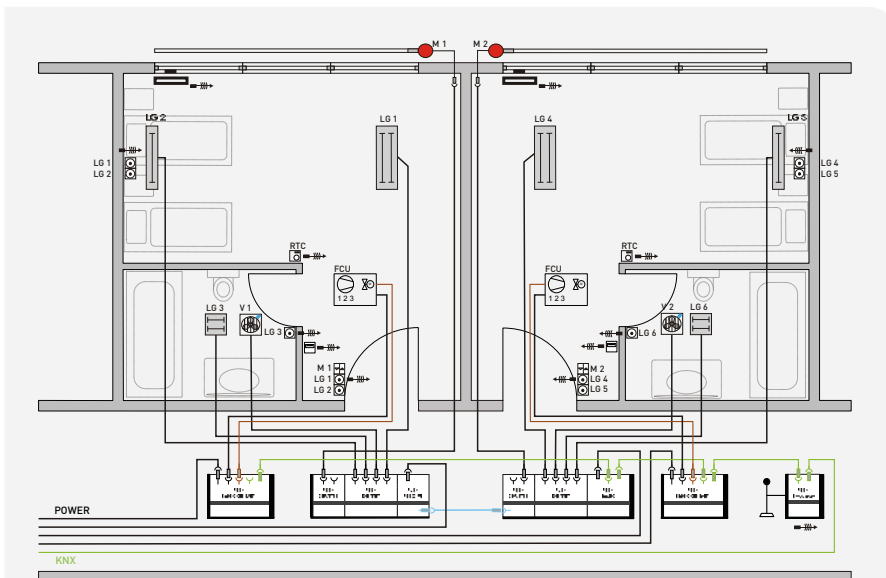
## SOLUTIONS

- Decentralized, modular room automation with gesis® FLEX
- Pre-assembled, waste-free electrical installation
- Convenient lighting control
- Need-oriented room temperature control
- Battery-free radio technology with EnOcean



## ADVANTAGES

- Convenient room automation provides for a pleasant atmosphere
- Efficient installation thanks to standardized spaces
- Simple implementation of trends due to room-based solution
- Clean, room-by-room renovation without business interruption
- Reliable window position monitoring using radio technology



## ROOM AUTOMATION OF HOTEL ROOMS

- DALI lighting control
- SMI Sunshade control
- Semiconductor output for heating valve control
- Integration of conventional buttons



# GESIS® FLEX BASE MODULES

## Feeds 1-phase or 3-phase



### 1-PHASE

Feeds with 1-phase mains connection are used if the connected power is low. The through-wiring within a gesis® FLEX arrangement is always designed as 3-phase. Single-phase feed modules bridge the three live conductors. The connected extension modules are thereby connected to an outer conductor, e.g. switching output 4-fold output 1 – 4 on the connected outer conductor.



### 3-PHASE

The base modules and intermediate feeds are designed for 3-phase 230/400 V connection. This is necessary for connecting high loads to the extension modules. If various feeds should be used, this can be achieved via an intermediate feed. The outputs of the extension modules are hardwired to the fed outer conductors, e.g. switching output 4-fold output A1 – L1; A2 – L2; A3 – L3; A4 – L3.

## Without or with plug set



### WITHOUT PLUG SET

The gesis® FLEX series offers pluggable electrical connections throughout. The corresponding plugs come from different gesis® product lines depending on their use. If a pluggable electrical installation is planned for the entire building project and therefore industrially prefabricated gesis® cables are used, the model without accompanying connectors is recommended.



### WITH PLUG SET

If the devices are operated in single applications or a universally pluggable electrical installation is not planned, then choose the model with a plug set. You will receive the devices including all the connectors required for connection. These have a screw or spring clamp connection and are suitable for all common cable types.

# GESIS® FLEX · BASE MODULES

## KNX base modules 3-phase feed



The 3-phase supplied KNX base module with flat surface mounted housing, which can be fitted on DIN rails for decentralized installation, supports 6 extension modules. They support all the common inputs and outputs, and they provide extensive room automation with only one physical address. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® KNX FLEX-BAS	83.020.0600.0
including mating connector	gesis® KNX FLEX-BAS Z	83.020.0600.1
■ 1x female, GST18i5 coding black, mains feed 5-pole		92.953.4053.1
■ 1x female, BST14i2 coding green, bus feed 2-pole		93.421.0553.1
■ Male, KNX forwarding BST14i2 coding green (not part of 83.020.0600.1)		93.422.0553.1

### TECHNICAL DATA

#### Feed

Mains	230/ 400 V; 16 A
Bus	KNX TP1

#### Outputs

Mains and internal bus	to next module
Bus	KNX TP1

#### Dimensions

Length	117 mm, with left cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without mounting rail

#### Installation

Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

## KNX base modules 1-phase feed



The 1-phase supplied KNX base module with flat surface mounted housing, which can be fitted on DIN rails for decentralized installation, supports 6 extension modules. They support all the common inputs and outputs, and they provide extensive room automation with only one physical address. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® KNX FLEX-BAS SP	83.020.0601.0
including mating connector	gesis® KNX FLEX-BAS SP Z	83.020.0601.1
■ 1x female, GST18i3 coding black, mains feed 3-pole		92.931.3053.1
■ 1x female, BST14i2 coding green, bus feed 2-pole		93.421.0553.1
■ Male, KNX forwarding BST14i2 coding green (not part of 83.020.0601.1)		93.422.0553.1

### TECHNICAL DATA

#### Feed

Mains	230 V; 16 A
Bus	KNX TP1

#### Outputs

Mains and internal bus	to next module
Bus	KNX TP1

#### Dimensions

Length	117 mm, with left cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without mounting rail

#### Installation

Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

# GESIS® FLEX · EXTENSION MODULES

## Intermediate feeds 1- and 3-phase



The intermediate feed with flat surface mounted housing, which can be fitted on DIN rails for decentralized installation, allows a mains supply separate from the base module within a modular system. This means that the output loads can be split over different fuse circuits. It can be integrated in the system as often as required. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
<b>3-phase model</b>		
without mating connector	gesis® FLEX-MS	83.020.0610.0
including mating connector	gesis® FLEX-MS Z	83.020.0610.1
■ 1x female, GST18i5 coding black, mains feed 5-pole		92.953.4053.1
<b>1-phase model</b>		
without mating connector	gesis® FLEX-MS SP	83.020.0611.0
including mating connector	gesis® FLEX-MS SP Z	83.020.0611.1
■ 1x female, GST18i3 coding black, mains feed 3-pole		92.931.3053.1

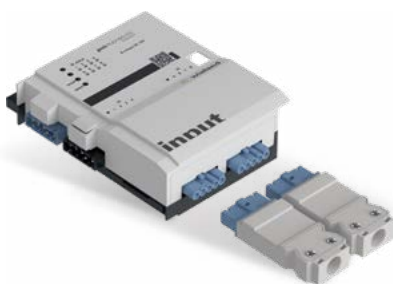
### TECHNICAL DATA

<b>Feed</b>	
Mains	
3-phase model	230/400 V; 16 A
1-phase model	230 V; 16 A
Bus	from upstream module
<b>Outputs</b>	
Mains and bus connection	to next module
<b>Dimensions</b>	
Length	95 mm linked, 105 mm with right cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	
	Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

## Binary inputs 8-fold



The 8-fold 12 VDC (SELV) binary input for connecting potential-free contacts in the flat surface-mounted housing, which can be mounted on DIN rails for decentralized installation, is managed by the base module. It receives its mains and bus supply from the upstream module. The extensive parameter set enables various automation functions. The manual mode level enables function tests without prior system integration. The electrical connections, which can be connected in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® FLEX-8/0 (12)	83.020.0622.0
including mating connector	gesis® FLEX-8/0 (12)	83.020.0622.1
■ 3x male, GST 15i5 coding light blue, binary inputs		91.952.4353.0

### TECHNICAL DATA

<b>Feed</b>	
Mains and bus connection	from upstream module
<b>Outputs</b>	
Mains and bus connection	to next module
<b>Inputs</b>	
	8 (2x4), non-isolated 12 V SELV
<b>Dimensions</b>	
Length	95 mm linked, 105 mm with right cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	
	Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1



# GESIS® FLEX · EXTENSION MODULES

## DALI Output 3-fold signal + 230 V



The 3-fold DALI2 output (DALI + 230 V) with three separate controlled broadcast channels for 16 DALI ECGs each, with flat surface mounted housing which can be fitted on DIN rails for decentralized installation, is managed by the base module. It receives mains and bus supply from the upstream module. The outputs are pluggable 5-pole and supply the DALI signal and the 230 V mains supply. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® FLEX-0/3DA AC	83.020.0641.0
including mating connector	gesis® FLEX-0/3DA AC Z	83.020.0641.1
■ 3x male, GST15i5 coding pastel blue, DALI+mains output		91.952.4453.0

### TECHNICAL DATA

<b>Feed</b>	
Mains and bus connection	from upstream module
<b>Outputs</b>	
Mains and bus connection	to next module
DALI outputs	3
DALI	16 DALI ECGs (DALI 2, single master operation, broadcast) each
Mains	230 V; 16 A unswitched each
<b>DALI connector system</b>	■ GST15i5, pastel blue, female connector in the module
<b>Dimensions</b>	
Length	130 mm linked, 140 mm with right cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

### Accessories

Base and extension modules from the gesis® FLEX series  
Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

## DALI output 4-fold



The DALI output for four separate controlled broadcast channels for 16 DALI ECGs each, with flat surface mounted housing which can be fitted on DIN rails for decentralized installation, is managed by the base module. It receives mains and bus supply from the upstream module. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® FLEX-0/4DA	83.020.0630.0
including mating connector	gesis® FLEX-0/4DA Z	83.020.0630.1
■ 4x male, GST15i2 coding pastel blue, DALI signal output		91.922.3453.0

### TECHNICAL DATA

<b>Feed</b>	
Mains and bus connection	from upstream module
<b>Outputs</b>	
Mains and bus connection	to next module
DALI outputs	4; for 16 DALI ECGs each, all DALI ECGs connected to one output work in broadcast operation
<b>Dimensions</b>	
Length	130 mm linked, 140 mm with right cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1  
Y cable, combination of 230 V and DALI signal, see page 25

# GESIS® FLEX · EXTENSION MODULES

## Switching output

4-fold, standard and C-load



The 4-fold relay output 230 V DC; 16 A in the flat surface-mounted housing, which can be fitted on DIN rails for decentralized installation, is managed by the base module. It receives its mains supply and bus supply from the upstream module. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
Standard relay, without mating connector	gesis® FLEX-0/4	83.020.0623.0
C-load relay, without mating connector	gesis® FLEX-0/4 P	83.020.0626.0
Standard relay, including mating connector	gesis® FLEX-0/4 Z	83.020.0623.1
C-load relay, including mating connector	gesis® FLEX-0/4 P Z	83.020.0626.1
■ 4x male, GST18i3 coding black, output		92.932.3053.1

### TECHNICAL DATA

#### Feed

Mains and bus connection from upstream module

#### Outputs

Mains and bus connection to next module

#### Relay outputs

Standard (83.020.0623.x) 230 V; 16 A ohmic load  
C-load (83.020.0626.x) 230 V; 16 A max. 140 µF

#### Dimensions

Length 130 mm linked, 140 mm with right cover  
Width 149 mm, 270 mm incl. male plug and cable  
Height 44 mm, without top-hat rail

#### Installation

Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

## Switching output

3-fold, emergency lighting



The 3-fold relay output 230 V DC; 16 A for emergency lighting in the flat surface-mounted housing, which can be fitted on DIN rails for decentralized installation, is managed by the base module. It receives its mains supply and bus supply from the upstream module. The pluggable 4-pole outputs provide N, PE, permanent 230 V and switched 230 V. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® FLEX 0/3 EL	83.020.0636.0
including mating connector	gesis® FLEX-0/3 EL Z	83.020.0636.1
■ 3x male, GST18i4 coding pebble gray, output		92.944.3553.0

### TECHNICAL DATA

#### Feed

Mains and bus connection from upstream module (mains will be looped-through)

#### Outputs

Mains and bus connection to next module  
Relay outputs 3; non-isolated 230 V; 16 A,  
4-pole version with N, PE, switched and unswitched outer conductor

#### Dimensions

Length 130 mm linked, 140 mm with right cover  
Width 149 mm, 270 mm incl. male plug and cable  
Height 44 mm, without top-hat rail

#### Installation

Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

# GESIS® FLEX · EXTENSION MODULES

## Sunblind output 2-fold AC, with and without fusing



The 2-fold sunblind output 230 AC/8 A in the flat surface-mounted housing, which can be fitted on DIN rails for decentralized installation, is managed by the base module. It receives its mains supply and bus supply from the upstream module. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
Standard, without mating connector	gesis® FLEX-0/2W	83.020.0624.0
with fuse, without mating connector	gesis® FLEX-0/2W F	83.020.0634.0
Standard, including mating connector	gesis® FLEX-0/2W Z	83.020.0624.1
with fuse, including mating connector	gesis® FLEX-0/2W F Z	83.020.0634.1
■ 2x male, GST18i4 coding black, sunblind output		92.944.3053.1

TECHNICAL DATA	
<b>Feed</b>	
Mains and bus connection	from upstream module
<b>Outputs</b>	
Mains and bus connection	to next module
<b>Sunblind outputs</b>	
Standard	2; separated controllable
with fuse	230 V AC; 8 A
	230 V; 3.15 AT for each output; miniature fuse 5x20 mm
<b>Dimensions</b>	
Length	130 mm linked, 140 mm with right cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	
	Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

**Accessories**  
 Mounting frame, see page 26  
 Mating connector, see page 32, E-Shop, printed catalog 0670.1

## Sunblind output 2-fold DC, with and without fuse



The 2-fold sunblind output 24 V DC; 3 A, with flat surface mounted housing which can be fitted on in DIN rail for decentralized installation, is managed by the base module. It receives mains and bus supply from the upstream module. The 24 V DC supply is fed from externally. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
Standard, without mating connector	gesis® FLEX-0/2W DC	83.020.0627.0
with fuse, without mating connector	gesis® FLEX-0/2W DC F	83.020.0637.0
Standard, including mating connector	gesis® FLEX-0/2W DC Z	83.020.0627.1
with fuse, including mating connector	gesis® FLEX-0/2W DC F Z	83.020.0637.1
■ 1x female, GST15i2 coding light blue, DC supply		91.921.3353.0
■ 2x male, GST15i2 coding light blue, sunblind output		91.922.3353.0

TECHNICAL DATA	
<b>Feed</b>	
Mains and bus connection	from upstream module
DC supply	24 V DC; 6 A
Fuse (only with 83.020.0637.x)	3 A miniature fuse 5x20 mm, in the input circuit
<b>Outputs</b>	
Mains and bus connection	to next module
<b>Sunblind outputs</b>	
Standard	2; separated controllable
with fuse	DC as per input voltage/ 3 A
	like standard, however with 6.3AT fuse in the power supply system
<b>Dimensions</b>	
Length	95 mm linked, 105 mm with right cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	
	Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

**Accessories**  
 Mounting frame, see page 26  
 Mating connector, see page 32, E-Shop, printed catalog 0670.1

# GESIS® FLEX · EXTENSION MODULES

## Semiconductor Output AC 230 V, with and without fusing



The 4-fold semiconductor 230 V AC; 0.5 A, with flat surface mounted housing which can be fitted on in DIN rail for decentralized installation, is managed by the base module. It receives mains and bus supply from the upstream module. The parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation. For 83.020.0632.x: every output is secured with a miniature fuse 0.5 AT.

Name	Type	Part No.
without fuse, without mating connector	gesis® FLEX-0/4 HL AC	83.020.0631.0
with fuse, without mating connector	gesis® FLEX-0/4 HL AC F	83.020.0632.0
without fuse, including mating connector	gesis® FLEX-0/4 HL AC Z	83.020.0631.1
with fuse, including mating connector	gesis® FLEX-0/4 HL AC F Z	83.020.0632.1
■ 4x male, GST15i2 coding black, semiconductor output		91.922.2053.1

### TECHNICAL DATA

#### Feed

Mains and bus connection from upstream module

#### Outputs

Mains and bus connection to next module  
Semiconductor outputs 4; non-isolated 230 V; 0.5 A; 2-pole design with N and switched outer conductor

Protection for 83.020.0632.0/1 0.5 AT; miniature fuse 5x20 mm

#### Dimensions

Length 130 mm linked, 140 mm with right cover  
Width 149 mm, 270 mm incl. male plug and cable  
Height 44 mm, without top-hat rail

#### Installation

Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

## Semiconductor Output DC 24V, electronically protected



The 4-fold semiconductor output 24 V DC; 0.5 A, with flat surface mounted housing which can be fitted on in DIN rail for decentralized installation, is managed by the base module. Every output is electronically protected. It receives mains and bus supply from the upstream module, the 24 V DC are supplied separately. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® FLEX-0/4 HL DC	83.020.0633.0
including mating connector	gesis® FLEX-0/4 HL DC Z	83.020.0633.1
■ 1x female, GST15i2 coding light blue, DC supply		91.921.2353.0
■ 4x male, GST15i2 coding light blue, semiconductor output		91.922.2353.0

### TECHNICAL DATA

#### Feed

Mains and bus connection from upstream module (mains will be looped-through)  
DC supply 24 V DC, external

#### Outputs

Mains and bus connection to next module  
Semiconductor outputs 4; non-isolated 24 V DC; 0.5 A 2-pole design with + / -

#### Protection

electronically against overload and short-circuit

#### Dimensions

Length 130 mm linked, 140 mm with right cover  
Width 149 mm, 270 mm incl. male plug and cable  
Height 44 mm, without top-hat rail

#### Installation

Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

# GESIS® FLEX · STANDALONE DEVICES

## KNX - EnOcean gateway



The bidirectional gateway for 32 channels is an independent KNX unit in a flat surface-mounted housing, which can be mounted on DIN rails for decentralized installation. The gateway is based on the EnOcean Equipment Profiles (EEP). In addition to the software for commissioning, there is comfortable manual operation available via a display. The ETS application also has an extensive logic/control range. The KNX connection is pluggable.

Name	Type	Part No.
without mating connector	gesis® FLEX-ENO32B	83.020.0628.2
including mating connector	gesis® FLEX-ENO32B Z	83.020.0628.3
■ 1x female, BST14i2 coding green, KNX input		93.421.0553.1
■ Male, BST14i2 coding green, KNX forwarding (not part of 83.020.0628.3)		93.422.0553.1

### TECHNICAL DATA

#### Feed

Bus	KNX TP1
EnOcean signals to EEP	32 channels, can be switched to bi-directional

#### Outputs

Bus	KNX TP1
EnOcean signals	32 channels, can be switched to bi-directional, all current EEPs

#### Dimensions

Length	126 mm
Width	144 mm, 215 mm incl. male plug and cable
Height	44 mm, without top-hat rail

#### Installation

Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

## KNX - SMI gateway



The 1-phase powered KNX SMI Gateway with flat surface mounted housing which can be fitted on DIN rails for decentralized installation can control up to 8 SMI drives. The 5-pole output for the connection of SMI motors includes SMI +/- as well as L, N and PE. The extensive set of parameters allows various automation functions. The electrical connections to the sensors and consumers, pluggable to IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® FLEX-SMI8	83.020.0635.0
including mating connector	gesis® FLEX-SMI8 Z	83.020.0635.1
■ 1x female, GST18i3 coding black, mains feed		92.931.3053.1
■ 1x female, BST14i2 coding green, KNX input		93.421.0553.1
■ 1x male, GST18i5 coding pastel blue, SMI output		92.954.4453.0
■ Male, BST14i2 coding green, KNX forwarding (not part of 83.020.0635.1)		93.422.0553.1

### TECHNICAL DATA

#### Feed

Mains	230 V; 16 A
Bus	KNX TP1

#### Outputs

KNX bus	KNX TP1 (connected from bus input)
SMI connection 5-pole	
Mains output	230 V; 16 A (L, N, PE)
SMI signal	for 8 SMI drives according to SMI standard I+ / I-

#### Dimensions

Length	160 mm
Width	144 mm, 215 mm incl. male plug and cable
Height	44 mm, without top-hat rail

#### Installation

Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

# GESIS® FLEX · STANDALONE DEVICES

## Fan coil base module



### Accessories

Mounting frame, see page 26  
Mating connector, see page 32  
E-Shop, printed catalog 0670.1

The 1-phase supplied KNX FanCoil controller with flat surface mounted housing which can be fitted on DIN rails for decentralized installation controls one valve for cooling/heating and a fan with three speed level. The function can be extended with an extension module. The comprehensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® KNX FLEX-FC	83.020.0638.0
including mating connector	gesis® KNX FLEX-FC Z	83.020.0638.1
■ 1x female, GST15i3 coding black, mains feed		91.931.3053.1
■ 1x female, BST14i2 coding green, KNX input		93.421.0553.1
■ 1x male, GST15i5 coding black, fan output		91.952.4053.1
■ 1x male, GST15i3 coding brown, valve output		91.932.3853.0
■ Male, BST14i2 coding green, KNX forwarding (not part of 83.020.0638.1)		93.422.0553.1

### TECHNICAL DATA

<b>Feed</b>	
Mains	230 V; 16 A
Protection in the module	5 AT; miniature fuse 5x20 mm
Bus	KNX TP1
<b>Outputs</b>	
Bus	KNX TP1
Fan	3-stage
<b>Valve actuation</b>	
constantly controlled or 2-point controlled	0-10 V control output and 24 V DC 24 V DC, pulse-width modulated
<b>Extension module</b>	
	gesis® FLEX fan coil extension module, linkable
<b>Dimensions</b>	
Length	160 mm
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	
	Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

## Fan coil extension module



The extension module to the FanCoil controller with flat surface mounted housing which can be fitted on DIN rails for decentralized installation controls one valve for cooling/heating and a fan with three speed level. It provides a binary input and a temperature sensor input. The extensive parameter set managed in the base module enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Name	Type	Part No.
without mating connector	gesis® KNX FLEX-FC EM	83.020.0639.0
including mating connector	gesis® KNX FLEX-FC EM Z	83.020.0639.1
■ 1x male, GST15i3 coding black, additional relay output		91.932.3053.1
■ 1x male, GST15i3 coding brown, valve output		91.932.3853.0
■ 2x male, GST15i2 coding light blue, sensor, binary input		91.922.3353.0

### TECHNICAL DATA

<b>Feed</b>	
	from the fan coil base module
<b>Inputs</b>	
Temperature sensor	NTC 6K8 B25/100 = 4200K
Binary input	for potential-free contacts Signal voltage 24 V DC
<b>Outputs</b>	
Valve actuation	
constantly controlled or 2-point controlled	0-10 V control output and 24 V DC supply 24 V DC, pulse-width modulated
Additional relay	230 V; 5 A
<b>Dimensions</b>	
Length	290mm, incl. basic module and end caps
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	
	Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

# GESIS® FLEX · ACCESSORIES

## Power supply unit 24 V DC, 30 W



The 24 VDC; 30W power supply unit with flat surface mounted housing which can be fitted on DIN rails for decentralized installation can be added to the system. It receives mains from the upstream module and forwards mains and bus supply to the following modules. The output is wired parallel to three 2-pole connectors.

Name	Type	Part No.
without fuse, without mating connector	gegis® FLEX-PS 24/30	83.020.0640.0
without fuse, including mating connector	gegis® FLEX-0/4 HL DC Z	83.020.0640.1
■ 3x male, GST15i2 coding light blue, DC output		91.922.3553.0

### TECHNICAL DATA

<b>Feed</b>	
Mains and bus connection	from upstream module
<b>Outputs</b>	
Mains and bus connection	to next module
DC output	24 V DC; 1.25 A 2-pole (wired parallel to three 2-pole connectors), Switch-off at loads > 33 W (switch-on in hiccup mode)
<b>Dimensions</b>	
Length	95 mm linked, 105 mm with right cover
Width	149 mm, 270 mm incl. male plug and cable
Height	44 mm, without top-hat rail
<b>Installation</b>	
Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface	

### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

## System housing REG for 4 modular widths



The REG module for DIN rail surface mounting for decentralized installation can be used to install DIN rail mounted devices according to DIN 43880 with up to four module widths. Mains and bus supply are passed from upstream to downstream module. Mains supply can be tapped internally. Depending on the model, a clear cover to protect the internal device is mounted, cable glands already integrated or must be provided on site.

Name	Type	Part No.
without screw fittings, without cover	gegis® FLEX-REG4	83.020.0660.0
including screw fittings, without cover	gegis® FLEX-REG4 V	83.020.0661.0
without screw fittings, including cover	gegis® FLEX-REG4 D	83.020.0662.0
including screw fittings, including cover	gegis® FLEX-REG4 DV	83.020.0663.0

### TECHNICAL DATA

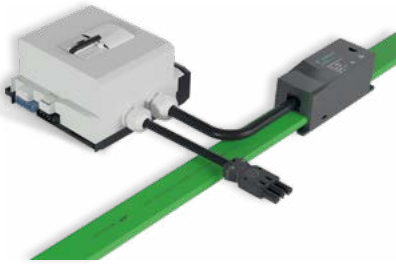
<b>Installation option</b>	
Rail-mounted devices according to DIN 43880 90 mm (crossways to the top-hat rail / 4 module widths (72 mm) / open to the top	
<b>Feed</b>	
Mains from the preceding module can be tapped internally	
<b>Through-wiring</b>	
Mains and bus routing from preceding module to next module	
<b>Cable entries</b>	
for cable diameter 5-9 mm 1x; 7-13 mm 2x	
<b>Dimensions</b>	
Length	130 mm linked, 140 mm with right cover
Width	140 mm, without screw fittings
Height	173 mm, with screw fittings
<b>Installation</b>	
Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface	

### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

# GESIS® FLEX REG · ACCESSORIES

## RCB/MCB combination



The RCB/MCB combination with the flat cable tap-offs for the Wieland 10 mm<sup>2</sup> flat cable is used for decentralized fusing and is integrated in the flat surface mounted housing which can be fitted on DIN rails for decentralized installation. It can be mechanically linked to the gesis® FLEX system and forwards the gesis® FLEX bus and mains wiring to the following module. The fused tap-off is pluggable in accordance with IEC 61535.

Name	Type	Part No.
RCB/MCB combination	gesis® FLEX-REG FI/LS	G0.000.0667.3

### TECHNICAL DATA

#### Connections

<b>Input</b>	Flat cable adapter 10 mm <sup>2</sup> Wieland 92.050.9153.1; Tap-off L1 on flat cable adapter, can be modified to L2/L3
Connection cable input	1.5 m/4 mm <sup>2</sup>
RCB/MCB nominal current	16 A
RCB/MCB leakage current I $\Delta$ n	30 mA
RCB/MCB characteristics	B

**Outputs** ■ 1x GST18i3 coding black

**Through-wiring** Mains and bus routing from preceding module to next module

**Housing** gesis® FLEX REG4 without transparent cover

**Device RCB/MCB** ABB DS201 B16 0.03 A

#### Dimensions (without cables)

Length	130 mm linked, 160 mm with left and right cover
Width	215 mm, including the required bending radius for the cables, without flat cable adapter
Height	80 mm, without top-hat rail

**Installation** Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1

## Power supply unit 24 V; 2.4 A



The power supply is used to supply 24 V DC consumers, the surface mounted housing can be fitted on DIN rails for decentralized installation. It is not suitable as a KNX power supply. The module receives its power supply from an upstream gesis® FLEX module. All electrical connections are pluggable according to IEC 61535.

Name	Type	Part No.
Power supply unit	gesis® FLEX REG PS24-2.5	G0.000.0667.2

### TECHNICAL DATA

<b>Connections</b>	All connections pluggable with approx. 30 cm cable length
Mains connection	230V from the upstream gesis® FLEX module
Output voltage	24 V DC SELV (adjustable up to 28 V DC)
Output current	2.5 A

**Through-wiring** Mains and bus routing from preceding module to next module

**Housing** gesis® REG4 without transparent cover

**Device** Wieland switched-mode power supply wipos PB1 24-2.5

#### Dimensions (without cables)

Length	130 mm linked, 160 mm with left and right cover
Width	215 mm, including the required bending radius for the cable
Height	80 mm, without top-hat rail

**Installation** Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface

#### Accessories

Mounting frame, see page 26  
Mating connector, see page 32, E-Shop, printed catalog 0670.1



# GESIS® FLEX REG · ACCESSORIES

## System extensions mains+bus



The extensions for mains and internal bus for the flat surface-mounted module system for decentralized installation, which can be mounted on a mounting rail, may have a maximum length of one meter in the system. It locks automatically upon plugging. The mechanical coding means that the mains connection cannot be confused with the bus connection.

Name	Part No.
Mains extensions 0.5 m	91.257.0500.2
Mains extensions 1.0 m	91.257.1000.2
Bus extensions 0.5 m	99.400.9999.8
Bus extensions 1.0 m	99.401.9999.8

TECHNICAL DATA	
<b>Mains extensions</b>	
Nominal voltage	230/400 V
Nominal current	16 A
Connector system	<input type="checkbox"/> GST15i5 coding white
<b>Bus extension</b>	
Nominal voltage	50 V
Connector system	<input checked="" type="checkbox"/> GST15i5 coding light blue
<b>Installation</b>	
Surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface	

## DALI connection cable in Y design



Name	Type	Part No.
Cable 0.5 m	PVC	99.404.9999.8
Cable 0.5 m	Halogen-free	99.405.9999.8
<b>Male connector for mains feed</b>		
<input checked="" type="checkbox"/> GST 18i3 - Code 1 <input checked="" type="checkbox"/> GST15i2 - Code 2		
<b>Male connector for DALI wiring</b>		
<input checked="" type="checkbox"/> GST18i5 - Code 2		

# GESIS® FLEX REG · ACCESSORIES

## Mounting frame

The mounting aid for the flat surface-mounted module system for decentralized installation, which can be mounted on a mounting rail, simplifies installation on cable support systems, ceilings, or walls. It accommodates up to six modules and has attachments for all incoming/outgoing cables. The hole pattern and supplied screws enable quick assembly.



Name	Type	Part No.
40 cm	Mounting frame	Z5.524.1410.0
50 cm	Mounting frame	Z5.524.1510.0
70 cm	Mounting frame	Z5.524.1710.0
80 cm	Mounting frame	Z5.524.1810.0
90 cm	Mounting frame	Z5.524.1910.0
100 cm	Mounting frame	Z5.524.2010.0

TECHNICAL DATA	
<b>Installation</b>	in cable duct with accompanying flat-head screws, in mesh cable trays with accompanying clip bolts, screw fitting to other surfaces
<b>Mounting rail</b>	TH35, integrated
<b>Attachment of the cables</b>	with cable ties to the hammer head profile
<b>Dimensions</b>	
Width	See above
Height	230 mm
Depth	15 mm

## NUMBER OF MODULES AND SUGGESTED LENGTH OF THE MOUNTING FRAME

Base module + covers + installation	Binary input or intermediate feed	Switching, sunblind or DIN rail housing	Mounting frame length in cm	Part No.
1	0	1	40	Z5.524.1410.0
1	0	2	50	Z5.524.1510.0
1	0	3	60	Z5.524.1610.0
1	0	4	80	Z5.524.1810.0
1	0	5	90	Z5.524.1910.0
1	0	6	100	Z5.524.2010.0
1	1	0	40	Z5.524.1410.0
1	1	1	50	Z5.524.1510.0
1	1	2	60	Z5.524.1610.0
1	1	3	70	Z5.524.1710.0
1	1	4	90	Z5.524.1910.0
1	1	5	100	Z5.524.2010.0
1	2	0	40	Z5.524.1410.0
1	2	1	50	Z5.524.1510.0
1	2	2	70	Z5.524.1710.0
1	2	3	80	Z5.524.1810.0
1	2	4	100	Z5.524.2010.0
1	3	0	50	Z5.524.1510.0
1	3	1	60	Z5.524.1610.0
1	3	2	80	Z5.524.1810.0
1	3	3	90	Z5.524.1910.0
1	4	0	60	Z5.524.1610.0
1	4	1	70	Z5.524.1710.0
1	4	2	90	Z5.524.1910.0
1	5	0	70	Z5.524.1710.0
1	5	1	80	Z5.524.1810.0

# GESIS® FLEX · ACCESSORIES

## Covers

The covers serve to close gesis® FLEX devices or device arrangements on the left and right sides. They are included with base modules. If, for example, a gesis® FLEX housing is operated in isolation or only via feed-in module, we recommend the use of the protective caps.



Name	Type	Part No.
Set with two covers		99.061.9999.9

**Assembly**  
Inserting and locking at the gesis® FLEX modules

### RECOMMENDATION

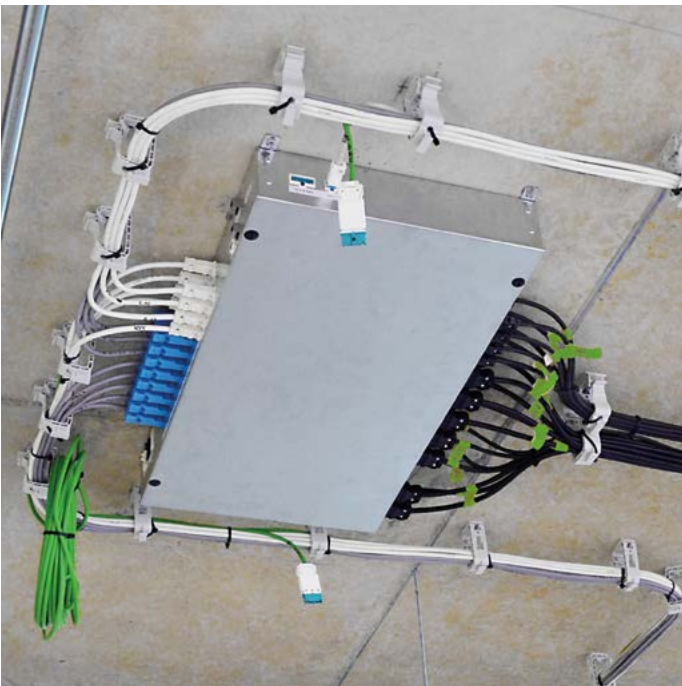
Space for labels

The gesis® FLEX devices offer enough space to place documentation on the device between labels. We recommend A4 label sheets with individual labels up to a dimension of 30x 90 mm. Manufacturers often offer templates or proprietary software tools that permit effective labeling.



### Example:

Avery Zweckform 70 x 29.7 mm; 30 pieces on A4 sheet  
Art.no. Avery Zweckform 3489



# SMART DISTRIBUTION BOXES FOR FLEXIBLE BUILDINGS.

Wieland is your experienced and reliable partner for efficient + pluggable solutions for decentralized distribution boxes. For your projects we offer smart and rational power and signal distribution solutions which make even brief planning and realization times possible and are flexible enough to enable later changes of use.

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
- Our production team have years of experience in 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 define and specify the distribution boxes and draw up the tender text and a cost estimate.



## FINALIZATION

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

### WE OFFER:

- + DISTRIBUTION BOXES
- + ROOM AUTOMATION
- + BUILDING AUTOMATION
- + ICA DISTRIBUTION BOXES
- + LOAD/EXHIBITION DISTRIBUTORS
- + DISTRIBUTORS FOR OUTDOOR USE
- + POWER + SIGNAL DISTRIBUTION
- + MINI DISTRIBUTORS

# SYSTEM DIVERSITY FOR YOUR APPLICATIONS.

All distribution boxes are custom-made. Very few limits are placed on models and potential applications. We will be happy to advise you.



## ICA DISTRIBUTION BOXES FOR BUILDING AUTOMATION

The distributor can accommodate all the ICA technology components that are needed for a story area. We work closely with the contractors of the ICA of a building project.

- Inclusion of all ICA I/Os of a story area
- Supplementing with e.g. power supply units
- Support point wiring
- Pluggable or direct connection
- Electronics as extra



## 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 e.g. with power supply units
- Support point wiring
- Pluggable or direct connection
- Electronics from Wieland or as extra



## SMART POWER/SIGNAL DISTRIBUTION

These distributors are used to supply installation areas with energy or data. If necessary, they can also accommodate RCB/MCB.

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

## IP 6X DISTRIBUTORS (OUTDOORS)

In case of occasional moisture in the vicinity of the distributor.

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



## LOAD/EXHIBITION DISTRIBUTORS

These distributors enable exhibition stands to be electrified quickly, for example.

- Pluggable outputs with gesis® CLASSIC, gesis® Mini, RST® CLASSIC
- Power input with CEE 64/32 A (40/20 kVA)
- Connection to other 20 kVA distributors with RST® Power
- Protection with RCB/MCB



## SMART MINI DISTRIBUTORS

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

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



## INSTALLATION COLUMN

This system distributor model is used mainly in school renovation/ 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



# GESIS® FLEX CONNECTOR SYSTEM OVERVIEW

Module	Type	Female Part No.	Male Part No.	Connection cable female-male Part No.*	Connection cable female-free end Part No.*	Connection cable male-free end Part No.*
<b>KNX base modules</b>						
<b>Intermediate power supplies</b>				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1 d1a1</b>		
Mains feed 3-pole	■ GST18i3 / black	92.931.3053.1		92.232.x070.1	92.232.x073.1	
Mains feed 5-pole	■ GST18i5 / black	92.953.4053.1		92.257.x070.1	92.257.x073.1	
				<b>J-H(St)Hh / 2x2x0.8 / Cca s1 d1 a1</b>		
KNX supply	■ BST14i2 / green	93.421.0553.1		94.425.x050.7	94.425.x053.7	
KNX forwarding	■ BST14i2 / green		93.422.0553.1	94.425.x050.7		94.425.x054.7
<b>Binary input 8-fold</b>				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1d1a1</b>		
Male plug A	■ GST15i5 / light blue		91.952.4353.0	91.257.x070.6		91.257.x074.6
<b>DALI outputs</b>				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1 d1a1</b>		
only signal	■ GST15i2 / pastel blue		91.922.3453.0	91.222.x070.9		91.222.x074.9
Signal + 230 V	■ GST15i5 / pastel blue		91.952.4453.0	91.257.x070.9		91.257.x074.9
<b>Switching outputs</b>				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1 d1a1</b>		
Outputs 3-pole	■ GST18i3 / black		92.932.3053.1	92.232.x070.1		92.232.x074.1
Outputs 4-pole	■ GST18i4 / pebble gray		92.944.3553.0	92.207.x070.3		92.207.x074.3
<b>Sunblind outputs</b>				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1 d1a1</b>		
AC / 4-pole	■ GST18i4 / black		92.944.3053.1	92.207.x070.1		92.207.x074.1
DC / 2-pole supply	■ GST15i2 / light blue	91.921.3353.0		91.222.x070.6	91.222.x073.6	
DC / 2-pole output	■ GST15i2 / light blue		91.922.3353.0	91.222.x070.6		91.222.x074.6
<b>Semiconductor outputs</b>				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1 d1a1</b>		
AC / 2-pole	■ GST15i2 / black		91.922.2053.1	91.222.1070.1		91.222.1074.1
DC / 2-pole supply	■ GST15i2 / light blue	91.921.2353.0		91.222.x070.6	91.222.x073.6	
DC / 2-pole output	■ GST15i2 / light blue		91.922.2353.0	91.222.x070.6		91.222.x074.6
<b>KNX - EnOcean gateway</b>				<b>J-H(St)Hh / 2x2x0.8 / Cca s1 d1 a1</b>		
KNX supply	■ BST14i2 / green	93.421.0553.1		94.425.x050.7	94.425.x053.7	
KNX forwarding	■ BST14i2 / green		93.422.0553.1	94.425.x050.7		94.425.x054.7
<b>KNX - SMI gateway</b>				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1 d1a1</b>		
KNX supply	■ BST14i2 / green	93.421.0553.1		94.425.x050.7	94.425.x053.7	
KNX forwarding	■ BST14i2 / green		93.422.0553.1	94.425.x050.7		94.425.x054.7
Mains feed 3-pole	■ GST18i3 / black	92.931.3053.1		92.232.x070.1	92.232.x073.1	
SMI output	■ GST18i5 / pastel blue		92.954.4453.0	92.257.x070.9		92.257.x074.9
<b>Fan coil base module</b>				<b>J-H(St)Hh / 2x2x0.8 / Cca s1 d1 a1</b>		
KNX supply	■ BST14i2 / green	93.421.0553.1		94.425.x050.7	94.425.x053.7	
KNX forwarding	■ BST14i2 / green		93.422.0553.1	94.425.x050.7		94.425.x054.7
				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1 d1a1</b>		
Mains feed 3-pole	■ GST15i3 / black	91.931.3053.1		91.232.x070.1	91.232.x073.1	
Fan outlet, output	■ GST15i5 / black		91.952.4053.1	91.257.x070.1		91.257.x074.1
Valve outlet	■ GST15i3 / brown		91.932.3853.0	91.232.x070.4		91.232.x074.4
<b>Fan coil extension module</b>						
Valve outlet	■ GST15i3 / brown		91.932.3853.0	91.232.x070.4		91.232.x074.4
Additional relay, output	■ GST15i3 / black		91.932.3053.1	91.232.x070.1		91.232.x074.1
Binary/sensor input	■ GST15i2 / light blue		91.922.3353.0	91.222.x070.6		91.222.x074.6
<b>Power supply unit 24 V DC</b>				<b>H05Z1Z1-F / 1.5 mm<sup>2</sup> / B2ca s1 d1a1</b>		
DC / 2-pole output	■ GST15i2 / light blue		91.922.2353.1	91.222.x070.6		91.222.x074.6

\* x in the order number for cable lengths from 1m = 1 up to 8m = 8



# OPEN SYSTEMS FACILITATE HOLISTIC CONCEPTS.



The bus systems used at Wieland are market standards and can easily be complemented to holistic systems with components of third-party manufacturers.



## THE COMPREHENSIVE SYSTEM

KNX is a globally used manufacturer-independent and interoperable bus system for installations in buildings. Nearly 500 manufacturers offer more than 8000 products that can simply be combined to form complete solutions.

- The Wieland device series are based on KNX
- Expansions with KNX products made by partners are easy
- Wieland Electric can easily integrate third-party devices into the pluggable electrical installation
- We would be happy to advise you on complete solutions and rely on well-known brand partners for the selection of equipment



## WIRELESS COMMUNICATION

EnOcean stands for wireless communication without batteries. Sensors like buttons, for example, generate the energy that is required to send a radio telegram. They do not require maintenance and are ideal to implement flexible installation concepts.

- Wieland is coupling EnOcean and KNX with a gateway
- Buttons in various versions are available directly from Wieland
- We would be happy to advise you on complete solutions and rely on well-known brand partners for the selection of equipment



## SMI – SUB-SYSTEM FOR SUNBLIND SYSTEMS

SMI stands for standard motor interface and thus for an interoperable system for shading control. The simple cable routing offers a high savings potential.

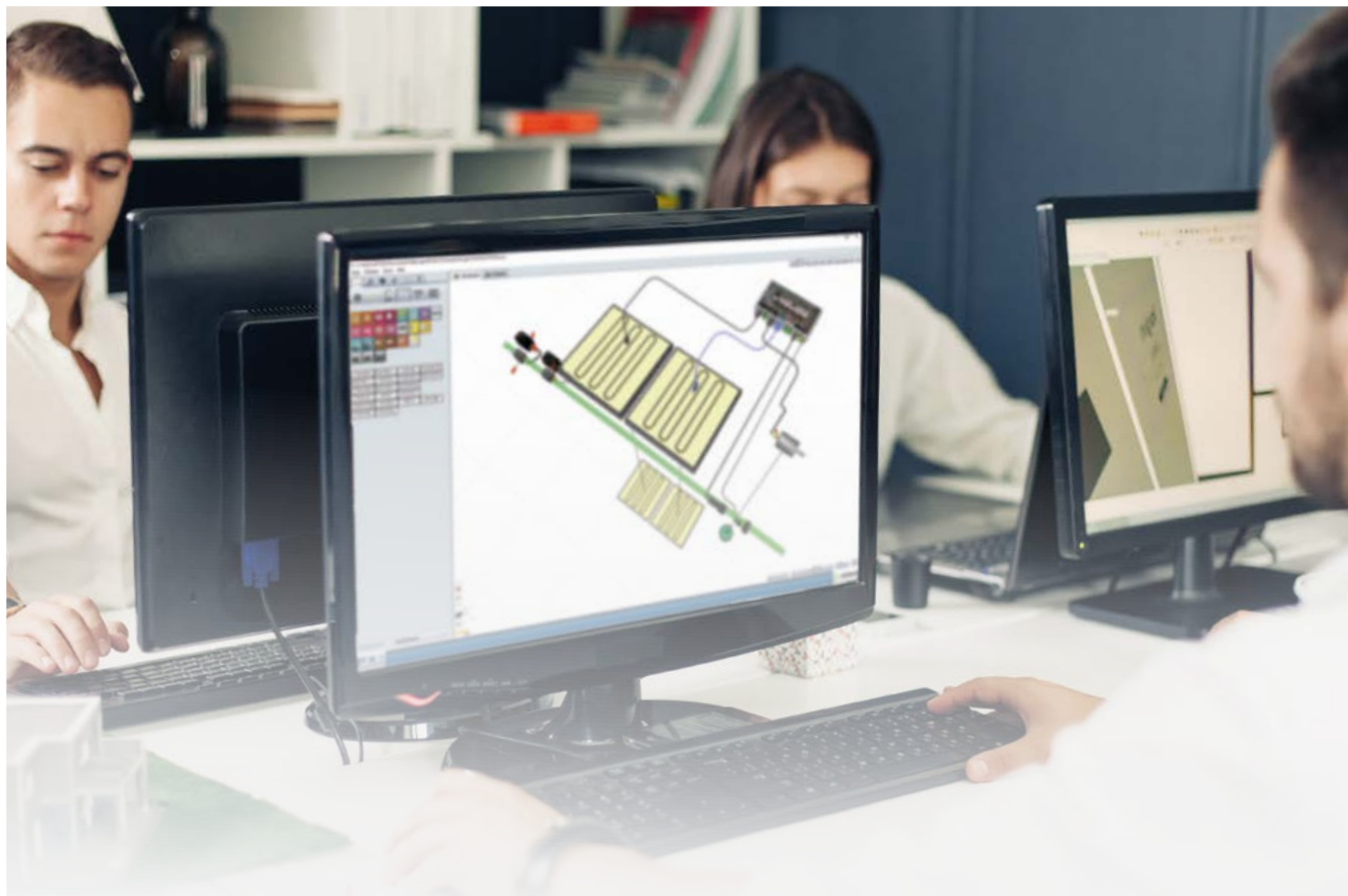
- Wieland is coupling SMI and KNX with a gateway
- The pluggable round cable structures with distribution blocks as well as the Wieland flat cable systems are ideal for cabling SMI systems
- We would be happy to advise you on electronics and installation



## DALI – SUB-SYSTEM FOR LIGHTING SYSTEMS

DALI2 is the bus system for lighting control. The simple cable routing ideally matches the Wieland installation concepts.

- Wieland is coupling EnOcean and KNX with an actuator
- The pluggable round cable structures with distribution blocks as well as the Wieland flat cable systems are ideal for cabling DALI systems
- Indoor and outdoor installation systems available
- We would be happy to advise you on electronics and installation



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