



gesis® ELECTRONIC

Decentralized building automation via plug & play

Catalog 2016





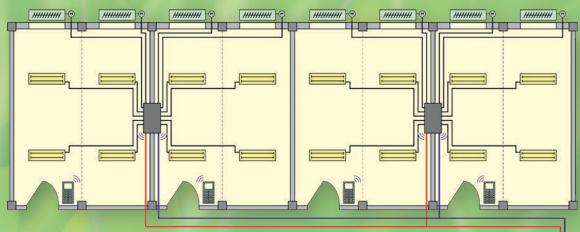


Room automation with Wieland.

Table of contents.

<i>gesis</i> ®ELECTRONIC – pluggable energy efficiency Advantages of distributed building automation	4 – 5
gesis®PLAN 3D display of the design	6 – 7
gesis®FLEX Room automation of the future	8 – 27
gesis®RM KNX-modular devices for flexible and decentralized installation	28 - 35
<i>gesis</i> ®EIBV KNX device service – flat and 100 % pluggable	36 – 41
gesis®KNX KNX system devices, sensors and more	42 – 51
gesis®RC EnOcean devices with radio technology	52 – 59
Installation column The ideal solution for schools	60 – 67
<i>gesis</i> ® Other applications – designed to be pluggable	68 – 75
RST® – plug & play outdoor Water-tight electronics	76 – 81
gesis® – electrical installation simply plugged Perfect building installation	82 – 89
Other products for building installation Mains power devices, overvoltage protection, DIN rail terminal blocks	90 – 91
Support Index. Hotline	92 – 95





smart installation

▲ The advantages of decentralized structures of a smart installation are evident and further increase the space efficiency of a building.



gesis® FLEX

the flat, modular KNX system for room automation with EnOcean, DALI and SMI interface



gesis® EIB V

flat, pluggable KNX actuators for limited space



gesis® RM

the modular, project-specific system for KNX and radio

gesis® ELECTRONIC – pluggable energy efficiency Advantages of distributed building automation

Building automation systems reduce the primary energy consumption of a building. *smart* installation concepts additionally implement the basic idea of a bus-based system by placing the automation components close to the consumers.

In combination with pluggability this leads to a flexible system whose functionality can be adapted quickly and easily to a change of use throughout the lifecycle of a building.

Consistent implementation can also improve the space efficiency of a building due to smaller utility rooms.

Advantages of distribution:

- smaller sub-distribution/utility rooms
- considerably reduced wiring expenses
- reduced demand for copper
- safety (in part fully functional during a bus failure)
- adaptable to change of use
- structured cabling

Advantages of pluggability:

- less prone to errors
- safe installation
- industrially pre-assembled quality
- flexible
- reusable
- faster installation
- structured cabling

Conclusion:

Reduced energy consumption and costs in construction phase and lifecycle of a building.



gesis® RC radio technology without batteries for wireless sensors



Installation column

Room installation and automation in one system



RST[®] Waterproof electronic for outdoor use







gesis®PLAN 3D display of the design.

The **gesis®**PLAN demonstration and planning software is a tool for conveniently designing and calculating pluggable electrical installations with gesis®. The software supports specialist planners as well as system integrators, architects and clients in the electrical design of buildings.

Features:

- Import of DWG/DXF drawings or JPG/PNG graphics
- Free positioning of consumers (lamps, sockets and sunblinds, etc.)
- Component library with all **gesis**® pluggable systems
- **gesis**® ELECTRONIC components, **gesis**® RAN distributor
- gesis® NRG flat cables
- Check of the permitted currents, voltage drops or selectivity
- Item list with precisely calculated cable lengths and
- No expert knowledge needed by the use of software wizards

Area of application:

- planning aid for all kinds of functional buildings
- Usable for new buildings and building renovation
- For all installation levels

Many years of experience amassed by Wieland Project Support could be used for the development. It is possible to plan not only individual rooms, but also stories and entire buildings.



gesis®FLEX

The design makes all the difference

Versatile

- 15 different extension modules available
- EnOcean and SMI Gateway
- Fan coil control
- Power supply for DC supply

Compact

hasic

- Flat design
- Fits into any installation space (floor, wall, ceiling)
- Easy integration into new and renovated buildings

Modular

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

Easy to engineer

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

Easy to install

- Optimum installation in false floor or on/under cable duct
- All cables from one side
- Quick mounting accessories



Pluggable

nutter

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

outout

Decentralized

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

Future-proof

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

Easily commissioned

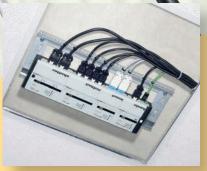
- Integrated manual operation
- Pre-function test without bus connection
- Exchange of extension modules does not require re-programming



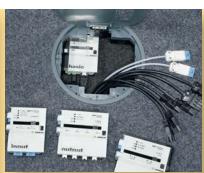












Ceiling Cable tray

Floor



Data for the gesis® FLEX series

Mains connection: 230 V AC or 400 V AC, depending on the base or feed module

Bus connection: KNX TP

Connection type: all electrical connections are pluggable

Module dimensions:

Comment: Different dimensions see product part

Height (vertically from the top edge of the top-hat rail)

all except DIN rail 44 mm

Width (crossways to the top-hat rail)

Normal 149 mm

Length (along the top-hat rail)

narrow housing 95 mm mounted wide housing 130 mm mounted side covers approx. 30 mm in total

Installation

on flat surfaces without top-hat rail

with top-hat rail TH35 (recommended TH35x7,5)

with mounting frame see product part

		0.0 /1	1.0 /1	0.0 /1	1.0/1	2.0/1	3.0/1	4.0 /1	6.0 /1	7.0 /1	0.0 /1	1.0 /1	2.0 /1	3.0 /1	4.0 /1	6.0 /1	7.0 /1	8.0 /1	5.0 /1	8.0 /1	9.0 /1	0.0 /1	0.0	1.0	2.0	3.0
		83.020.0600.0/	83.020.0601.0/	83.020.0610.0/	83.020.0611.0/	83.020.0622.0/	83.020.0623.0/	83.020.0624.0 /	83.020.0626.0/	83.020.0627.0/	83.020.0630.0/	83.020.0631.0/	83.020.0632.0/	83.020.0633.0/	83.020.0634.0 /	83.020.0636.0/	83.020.0637.0/	83.020.0628.0/	83.020.0635.0/	83.020.0638.0 /	83.020.0639.0/	83.020.0640.0 /	83.020.0660.0	83.020.0661.0	83.020.0662.0	83.020.0663.0
	gesis FLEX Modular																									
	KNX Connection	х	х															Х								
	Base module for x extension modules	6	6																							
	Extension module for Base module					х	х	х	х	х	х	х	Х	х	Х	Х	х									
	3-phase mains feed	х		Х																						
	1-phase mains feed		Х		х														Х	х						
	Mains power supply through upstream module					х	х	х	Х		х	х	Х		Х	Х	Х				Х	х	Х	Х	Х	х
	Binary input 12-V SELV					8																				
	Switching output 230V 16A						4									3										
	Switching output 230V 16A C-load								4																	
	Sunblind output 230V AC 8A							2							2*											
	Sunblind output 24V DC 3A**									2							2*									
	DALI outputs for each of 16 ballasts										4															
	Semiconductor output AC 230V 0.5A											4	4*													
us	Semiconductor output DC 24V 0.5A**													4*												
Functions	gesis FLEX stand-alone																									
Ē	EnOcean - KNX gateway channels																	32								
	SMI gateway / number of motors																		8							
	Fan coil																									
	Fan connector 3-step																			1						
	Valve actuation 2-point or permanently																			1	1					
	Auxiliary relay 230V																				1					
	Binary input																				1					
	Temperature sensor input																				1					
	gesis FLEX add-on / auxiliary functions																									
	Power supply unit 24V DC 30W																					1				
	Installation DIN rail 4 module widths																						х	х	Х	х
	Fitting cable diameter 5-9mm																							1		1
	Fitting cable diameter 7-13 mm																							2		2
	Hinged lid																								Х	х

Note:For products with .1 on the end of the order number are corresponding male plugs enclosed.

^{**} Externals 24 V DC power supply voltage necessary

Application example: schools

Requirements

School renovations often have to be completed in the shortest time. Using pluggable installations combined with pluggable room automation devices is especially practical here. In classrooms, room automation involves controlling blinds and lighting using conventional buttons. The electrothermal actuators of the radiator valves need to be controlled via semiconductors. In addition, the blind and lighting circuits have to be fused separately.

Realization

The modular KNX system *gesis*®FLEX uses conventional buttons, controls the blinds and links the DALI luminaires to the KNX. The heating is controlled by a KNX room temperature controller, the valves are switched via a semiconductor switch. *gesis*®FLEX enables the lighting and blind circuit to be controlled separately via an additional intermediate power supply.

Used automation devices:

1 x base module, 1-phase

1 x binary input, 8-fold

1 x DALI output 4x16-fold

1 x semiconductor switch

1 x intermediate power supply

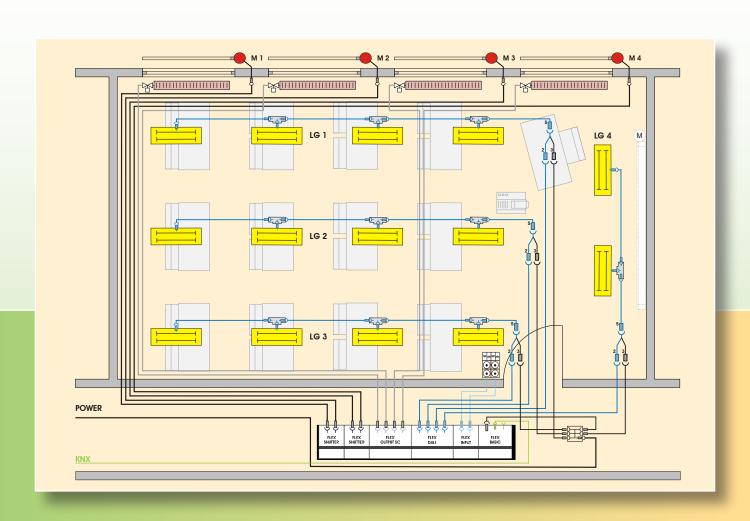
2 x blind output

1 x room temperature controller

gesis KNX FLEX-BAS SP gesis FLEX-8/0 (12) gesis FLEX-0/4 DA gesis FLEX REG-0/4 H gesis FLEX-MS SP gesis FLEX-0/2W gesis KNX RTR SP

Used connection elements:

- Three-phase to one-phase distribution block (GST18i5 to GST18i3) for the power supply system to the base module and the mains supply to the DALI luminaires
- Y-conductor for bundling the DALI signal from the gesis[®]FLEX system and the mains supply
- Standard conductors and connectors from the GST18, GST15 and BST 14 systems



Feeds 1-phase or 3-phase



3-phase:

The base modules and intermediate feeds are designed for 3-phase 230/400V 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.



I-phase:

Feeds with 1-phase mains connection are used if the connected power is low. The throughwiring 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.

With or without plug set



Without plug set:

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



Nith plua 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 connection and are suitable for all common cable types.

KNX base modules 3-phase feed



Туре	Std. Pack	Part No.
gesis KNX FLEX-BAS without plug set	10	83.020.0600.0
gesis KNX FLEX-BAS Z with plug set	1	83.020.0600.1 1 mains feed 5-pole GST18i5, black 1 bus feed 2-pole, BST14i2, green



The 3-phase supplied KNX base module with flat surface mounted housing, which can be fitted on DIN rails for decentralized installation, supports 6 expansion 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.

Infeed

Mains 230/400V; 3 x 16A KNX TP1

Outputs

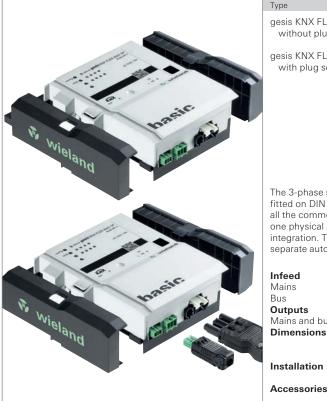
Mains and bus connection to next module Dimensions

length: 117 mm with left cover width: 149 mm incl. plug lock height: 44 mm without mounting rail

Installation surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface Accessories extension modules from the gesis® FLEX series

mounting frame, see page 26 plug-in connectors, see page 84

KNX base modules 1-phase feed



.,,,,	Otali doll	1 4101
gesis KNX FLEX-BAS SP without plug set	10	83.020.0601.0
gesis KNX FLEX-BAS SP Z with plug set	1	83.020.0601.1 1 mains feed 3-pole GST18i3, black 1 bus feed 2-pole, BST14i2, green

Std Pack Part No.

The 3-phase supplied KNX base module with flat surface mounted housing, which can be fitted on DIN rails for decentralized installation, supports 6 expansion 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.

Infeed

230V; 16A Mains Bus KNX TP1

Outputs

Mains and bus connection to next module

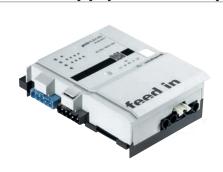
Dimensions length: 117 mm with left cover width: 149 mm incl. plug lock

height: 44 mm without mounting rail surface-mounted on TH35 mounting rail, system-

compatible mounting frame or flat mounting surface extension modules from the **gesis**® FLEX series

mounting frame, see page 26 plug-in connectors, see page 84

Power supply module 3-phase



Type	Std. Pack	Part No.
gesis FLEX-MS without plug set	10	83.020.0610.0
gesis FLEX-MS Z with plug set	1	83.020.0610.1 1 mains feed 5-pole GST18i5, black



The 3-phase power supply module 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.

Infeed

Mains 230/400V; 3 x 16 A from preceding module

Outputs

Mains and bus connection to next module

Dimensions length: 95 mm (mounted) width: 149 mm incl. plug lock height: 44 mm without top-hat rail

Installation surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface

extension modules from the gesis® FLEX series Accessories mounting frame, see page 26

plug-in connectors, see page 84

Power supply module 1-phase



Туре	Std. Pack	Part No.
gesis FLEX-MS SP without plug set	10	83.020.0611.0
gesis FLEX-MS SP Z with plug set	1	83.020.0611.1 1 mains feed 3-pole GST18i3, black



The 1-phase power supply module 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.

Infeed

Mains 230V; 16A Bus from preceding module

Outputs

Accessories

Mains and bus connection to next module

Dimensions length: 95 mm (mounted) width: 149 mm incl. plug lock

height: 44 mm without top-hat rail surface-mounted on TH35 mounting rail, system-

compatible mounting frame or flat mounting surface extension modules from the *gesis*® FLEX series

mounting frame, see page 26

plug-in connectors, see page 84

Binary inputs 8-fold



Type	Std. Pack	Part No.
gesis FLEX-8/0 (12) without plug set	10	83.020.0622.0
gesis FLEX-8/0 (12) Z with plug set	1	83.020.0622.1 2 plugs, each for 4 inputs 5-pole GST15i5, light blue



The 8-fold binary input 12 VDC, for connecting potential-free contacts, 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 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.

Mains and bus connection

Outputs

Mains and bus connection

Inputs

. Dimensions

Installation

Accessories

from preceding module

to next module

8 (2x4), non-isolated 12V SELV

length: 95mm mounted (105mm with left cover) width: 149 mm incl. plug lock

height: 44 mm without top-hat rail

surface-mounted on TH35 mounting rail, system-

compatible mounting frame or flat mounting surface

extension modules from the **gesis®** FLEX series mounting frame, see page 26

plug-in connectors, see page 84

DALI output 4-fold







The DALI output 4-fold for four separate controlled broadcast channels each for 16 DALI ballasts, 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. All necessary plugs are enclosed.

Infeed

Mains and bus connection

Outputs

Mains and bus connection

DALI outputs

DALI plug system **Dimensions**

from preceding module

to next module

4, for each of 16 DALI EVGs

all DALI EVGs connected to one output

work in Broadcast mode

GST15i2, pastel blue, female connector in the module length: 130mm mounted (140mm with left cover)

width: 149 mm incl. plug lock height: 44 mm without top-hat rail

surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface

extension modules from the **gesis**®FLEX series Y-conductor DALI+mains power, see page 23

mounting frame, see page 26 plug-in connectors, see page 84

Switching outputs 4-fold, standard and C-load



andara ana o load							
Type	Std. Pack	Part No.					
gesis FLEX-0/4 Standard, without plug set	10	83.020.0623.0					
gesis FLEX-0/4 Z Standard, with plug set	1	83.020.0623.1					
gesis FLEX-0/4P C-Load, without plug set	10	83.020.0626.0					
gesis FLEX-0/4P Z C-Load, with plug set	1	83.020.0626.1					

The 4-fold relay output 230 VAC/16 A, 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.

Infeed

Mains and bus connection

Outputs

Mains and bus connection Relay output Standard (83.020.0623.x) C-load (83.020.0626.x)

C-load (83.020.0626.x) plug system in eache case **Dimensions**

Mounting

Accessories

from preceding module

to next module

230V / 16A ohmic load 230V / 16A max. 140 mF

GST 18i3, black, female connector in the module length: 130 mm mounted (140 mm with left cover)

width: 149 mm incl. plug lock height: 44 mm without top-hat rail

surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface base and extension modules from the *gesis*°FLEX series

mounting frame, see page 26
Connector, see from page 84

Switching output 3-fold, emergency lighting



Туре	Std. Pack	Part No.
gesis FLEX 0/3 EL without plug set	10	83.020.0636.0
gesis FLEX 0/3 EL Z	1	83.020.0636.1

The 3-fold relay output for emergency light 230 VAC/16 A 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 pluggable 4-pole output provides neutral, earth, permanent and switched phase. 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.



InfeedMains and bus connection

Outputs

Mains and bus connection

Relay output

Installation

Accessories

from preceding module

to next module

3, non-isolated 230V/16A

4-pole exported with N, PE, switched and switched off

outer conductor

plug system GST 18i4, pebble grey, female connector on module **Dimensions** length: 130 mm mounted (140 mm with left cover)

width: 149 mm incl. plug lock

height: 44 mm without top-hat rail

surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface extension modules from the *gesis*® FLEX series

mounting frame, see page 26 plug-in connectors, see page 84

Shutter output 2-fold AC, with and without fuse



-	an ana mianoat i	400		
	Туре	Std. Pack	Part No.	
	gesis FLEX-0/2W standard, without plug set	10	83.020.0624.0	
	gesis FLEX-0/2W Z standard, with plug	1	83.020.0624.1	
	gesis FLEX 0/2W F with fuse, without plug set	10	83.020.0634.0	
	gesis FLEX 0/2W F Z with fuse, with plug set	1	83.020.0634.1	

The 2-fold shutter output 230 V/8 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.

Infeed

Mains and bus connection

Outputs

Mains and bus connection to next module

Blind outputs Standard per 2 separated controllable 230VAC / 8A

from preceding module

with fuse Plug system 230V / 3A miniature fuse 5x20mm 3.15 AT per output GST 18i4, black, female connector in the module length: 130 mm mounted (140 mm with left cover)

Dimensions

width: 149 mm incl. plug lock

Mounting

height: 44 mm without top-hat rail surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface

Accessories extension modules from the **gesis®** FLEX series mounting frame, see page 26

plug-in connectors, see page 84

Blind output 2-fold DC, with and without fuse



Type	Std. Pack	Part No.
gesis FLEX-0/2W DC standard, without plug set	10	83.020.0627.0
gesis FLEX-0/2W DC Z standard, with plug	1	83.020.0627.1
gesis FLEX 0/2W DC F with fuse, without plug set	10	83.020.0637.0
gesis FLEX 0/2W DC F Z with fuse, with male	1	83.020.0637.1

The 2-fold shutter 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 the internal supply from the upstream module. The 24V supply is externally. The parameter set enables different automation functions. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation.

Infeed

Mains and bus connection

from preceding module

Power supply system for blind drives Fuse

24VDC, 6 A, GST14i2, light blue, male connector in the module 6, 3A miniature fuse 5x20mm, in the input circuit

Outputs

Dimensions

Mounting

Accessories

Mains and bus connection

to next module per 2 separated controllable DC after input voltage / 3 A

Blind outputs
Standard
with fuse
plug system

as standard, however with 6.3 AT fuse in the power supply system GST15i2, light blue, female connector in the module length: 95 mm mounted (105 mm with left cover)

Width: 149 mm incl. male lock height: 44 mm without top-hat rail

surface-mounted on TH35 mounting rail, systemcompatible

mounting frame or flat mounting surface

base and extension modules from the **gesis®** FLEX series

mounting frame, see page 26 connector, see from page 84

Semiconductors AC 230V, with and without fuse





The 4-fold semiconductor output 230 VAC/0.5 A, with flat surface mounted housing which can be fitted on DIN rails for decentralized installation, is managed by the base module. It receives its main and bus supply from the upstream module. The extensive parameter set enables different automation functions. The manual operation level allows functional testing without prior system integration. The electrical connections are pluggable in accordance with IEC 61535, separate automation and installation. Each output of 83.020.0632.x is fused with a 0.5 AT fine-wire-fuse.



Infeed

Mains and bus connection

Outputs

Mains and bus connection Semiconductor outputs

Hedge for 83.020.0632.0/1

Plug system Dimensions

Mounting

Accessories

from preceding module

to next module

4, non-isolated 230V/0,5A

2-pole exported with N and switched off outer conductor

0.5 AT, miniature fuse 5x20mm

GST15i2, black, female connector in the module length: 130 mm mounted (140 mm with left cover)

width: 149 mm incl. plug lock height: 44 mm without top-hat rail

surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface base and extension modules from the **gesis®** FLEX series

mounting frame, see page 26 plug-in connectors, see page 84

Semiconductor output DC 24V, electronically protected



Туре	Std. Pack	Part No.
gesis FLEX 0/4 HL DC without plug set	10	83.020.0633.0
gesis FLEX 0/4 HL DC Z with plug set	1	83.020.0633.1

The 4-fold semiconductor output 24 VDC/0.5 A output, with flat surface mounted housing which can be fitted on DIN rails for decentralized installation, is managed by the base module. Each output is electronically fused. Bus and power supply are from the upstream module, the 24 VDC has to be fed separately. The extensive parameter set enables different automation functions. The manual operation level allows functional testing without prior system integration. The electrical connections are pluggable in accordance with IEC 61535, separate automation and installation.



Mains and bus connection

DC supply

Plug system DC-supply

Outputs

Mains and bus connection Semiconductor outputs

Protection Plug system

Dimensions

Mounting

from the upstream module (main will be looped-through) 24V DC, external

GST15i2, light blue, male connector in the module

to next module

4, non-isolated 24VDC/0,5A 2-pole exported with + / -

electronically against overload and short-circuit GST15i2, light blue, female connector in the module length: 130 mm mounted (140 mm with left cover)

width: 149 mm incl. plug lock height: 44 mm without top-hat rail

surface-mounted on TH35 mounting rail, system-

compatible mounting frame or flat mounting surface base and extension modules from the **gesis**® FLEX series

mounting frame, see page 26 plug-in connectors, see page 84 KNX-EnOcean Gateway



Туре	Std. Pack	Part No.
gesis FLEX-ENO32 without plug set	10	83.020.0628.0
gesis FLEX-ENO32 Z with plug set	1	83.020.0628.1 Female and male, BST14i2 (KNX)

The bi-directional gateway for 32 channels is an autonomous KNX device in the AP housing that can be mounted on the mounting rail for decentralized installation. The gateway is oriented towards the EnOcean Equipment Profiles (EEP). Besides the commissioning software, convenient manual operation via a display is also available. The ETS application has, in addition, an extensive logic/ control range. The KNX connection is designed to be pluggable. For 83.020.0628.1, the male set is included.

Infeed

Bus connection KNX BST14i2, green male connector in the module EnOcean signals 32 channels, can be switched to bi-directional, all current EEPs

Accessories

Bus connection KNX BST14i2, green female connector in the module EnOcean signals 32 channels, can be switched to bi-directional, all current EEPs

Dimensions Length: 126mm (can be mounted on gesis®FLEX modules)

Width: 144 mm

height: 44 mm without top-hat rail Mounting

surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface base and extension module from the **gesis®** FLEX series

mounting frame, see page 26 connector, see from page 84

KNX-SMI Gateway



Type	Std. Pack	Part No.
gesis KNX FLEX SMI8 without fuse, withou plug set	10	83.020.0635.0
gesis KNX FLEX SMI8 Z	1	83.020.0635.1

The 1-phase powered KNX SMI Gateway in shallow AP housing mountable on rails for decentralized installation can control up to 8 SMI drives. The 5-pole output to 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 KNX - Bus and consumers, pluggable to IEC 61535, separate automation and installation.

Infeed

Mains 230V / 16A Plug system GST18i3, black, male connector in the module Bus Plug system BST14i2, green, male connector in the module

Outputs

Mounting

KNX bus KNX TP1 (connected from bus input) Plug system BST14i2, green, female connector in the module

SMI connection 5-pole Mains output 230V/16A (L,N, PE)

SMI signal for 8 SMI drive systems according SMI standard I+ / I-Plug system GST18i5, pastel blue, female connector in the module Dimensions

Length: 160mm (along the top-hat rail) Width: 149mm (crossways to the top-hat rail)

Height: 44mm (without top-hat rail) surface-mounted on TH35 mounting rail, system-

compatible mounting frame or flat mounting surface base and extension modules from the **gesis**®FLEX series Accessories mounting frame, see page 26

Connector, see from page 84



Fan coil basic module



Type	Std. Pack	Part No.
gesis KNX FLEX-FC without plug set	10	83.020.0638.0
gesis KNX FLEX-FC Z with plug set	1	83.020.0638.1

The 1-phase supplied FanCoil base module with flat surface mounted housing which can be fitted on DIN rails for decentralized installation controls one valve for cooling/heating pipes and an fan with three speed level. The function can be extended with an extension 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.

Infeed

Mains Hedge in the module Bus

Outputs

Bus Fan

Valve actuation
constant controlled
or 2-piece controlled
Plug system
Extension module

Dimensions

Mounting

Accessories

230V, 16A (GST15i3, black, male in the module) 5AT, miniature fuse 5x20mm KNX TP1 (BST14i2, green, male in the module)

KNX TP1 (BST14i2, green, female connector in the module) 3-stage (GST15i5, black, female in the module)

0-10V control output and 24VDC 24VDC, pulse-widthmodulated

in each case GST15i3, brown, female in the module

gesis® FLEX fan coil extension module Length: 160mm (along the top-hat rail) Width: 149mm (crossways to the top-hat rail)

Height: 44mm (without

surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface extension module *gesis*® FLEX FC-EM (optional)

mounting frame, see page 26 plug-in connectors, see page 84

Fan coil extension module



Туре	Std. Pack	Part No.
gesis FLEX-FC EM without plug set	10	83.020.0639.0
gesis FLEX-FC EM Z with plug set	1	83.020.0639.1

The extension module for the fan coil base module with flat surface mounted housing which can be fitted on DIN rails for decentralized installation controls one valve for cooling/heating pipes and an auxiliary relays. In addition it has one binary and one temperature sensor input. The extensive parameter set, commissioned 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.

Infeed
Input

Temperature sensor Plug system Binary input Plug system

Outputs

Valve actuation constant controlled or 2-piece controlled

Plug system Additional relay **Dimensions**

Mounting

Accessories

from the fan coil basic module

NTC 6K8 B25/100 = 4200K

GST15i2, light blue, female connector in the module for potential-free contacts generates signal voltage 24VDC GST15i2, light blue, female connector in the module

0-10V control output and 24VDC power supply 24VDC, pulse-widthmodulated

in each case GST15i3, brown, female in the module 230V, 5A (GST15i3, black, female in the module) Length: 290mm (incl. basic module and end caps) Width: 149mm (crossways to the top-hat rail)

Height: 44mm (without

surface-mounted on TH35 mounting rail, system-compatible mounting frame or flat mounting surface basic module **gesis*** KNX FLEX FC (necessary)

mounting frame, see page 26 plug-in connectors, see page 84

Power pack 24V DC, 30W



Type	Std. Pack	Part No.
gesis FLEX-PS 24/30 without fuse, without plug set	10	83.020.0640.0
gesis FLEX-PS 24/30 Z without fuse, with male	1	83.020.0640.1

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

Infeed

Mains and bus connection from preceding module

Outputs

Mains and bus connection to next module DC output 24VDC, 1,25A

2-pole (wired parallel to three 2-pole connectors) Switch-off at load > 33W (switch on at hiccup mode) Plug system GST15i2, light blue, female connector in the module Dimensions length: 95 mm mounted (105 mm with left cover) width: 149 mm incl. plug lock

height: 44 mm without top-hat rail

Installation surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface Accessories base and extension modules from the **gesis**® FLEX series

mounting frame, see page 26 plug-in connectors, see page 84

System housing REG for 4TE







Type	Std. Pack	Part No.
gesis FLEX-REG4	1	83.020.0660.0
Empty housing without sci	rew fittings, witho	ut cover
gesis FLEX-REG4 V	1	83.020.0661.0
Empty housing with screw	fittings, without of	cover
gesis FLEX-REG4 D	1	83.020.0662.0
Empty housing without sci	rew fittings, with o	cover
gesis FLEX-REG4 DV	1	83.020.0663.0
Empty housing with screw	fittings and cover	•

The system-compatible housing 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 width. Mains and bus supply are passed from upstream to downstream module. Main supply can be internally gripped. Depending on the variant, a clear cover to protect the internal device is mounted, cable glands already integrated or on site contributed.

Installation option	rail-mounted devices according to DIN 43880	
height / width / depth	90 mm (crossways to the top-hat rail) / 4 module widths	
	(72 mm) / open to the top	
Infeed	mains from the preceding module can be tapped	
	internally	
Cable entry	for cable diameter 5 - 9 mm 1 x; 7 - 13 mm 2 x	
Dimensions	Length: 130 mm mounted	
	Width: 140 mm without screw fittings	
	173 mm with screw fittings	
	Height: 80 mm without top-hat rail	
	94 mm with transparent protective cover,	
	without top-hat rail	
Mounting	surface-mounted on TH35 mounting rail, system-	
	compatible mounting frame or flat mounting surface	

module of the **gesis®** FLEX series Accessories mounting frame, see page 26

DALI Gateway gesis®FLEX REG



u		
Туре	Std. Pack	Part No.
gesis FLEX-REG 0/64 DA housing device	1	G0.000.0666.8 gesis FLEX REG4 without transparent cover Siemens / DALI Gateway N 141/02

The DALI Gateway (SIEMENS, DALI Gateway N141/02) is an independent KNX device, the surface mounted housing can be fitted on DIN rails for decentralized installation. It may take up to 64 DALI ECGs individually and in control groups. It can be linked to the *gesis*®FLEX system. The module receives its power supply from an upstream *gesis*®FLEX module. The KNX connection is pluggable. All connections to the DALI devices are pluggable according to IEC 61535 and separate automation and installation.

Connections all connections pluggable with approx. 30cm conductor length

KNX Connection BST14i2 male connector on the module Mains connection 230 / 400 V from the upstream *gesis*® FLEX module

DALL 1 x GST18i5 pastel blue

Accessories

Functions: DALI 64 DALI actuators with > 8kOhm input impedance

individual and group addressing emergency lighting activation possible button for Broadcast operation

Manual operating level **Dimensions** (excluding conductors) length: 130 mm mounted width: 173 mm included screwed joints

height: 80 mm without top-hat rail surface-mounted on TH35 mounting rail, systemcompatible Mounting

mounting frame or flat mounting surface

modules from the **gesis®**FLEX series mounting frame, see page 26

Switch-/dimming output gesis®FLEX REG



Туре	Std. Pack	Part No.
gesis FLEX-REG 0/2 SD housing device	1	83.020.0667.0 gesis FLEX REG4 without transparent cover ABB SD/S2.16.1

The switch-/dimming output (ABB SD/S2.16.1) is an independent KNX device, the surface mounted housing can be fitted on DIN rails for decentralized installation. It can connect two separate groups of luminaires with dimmable electronic ballasts and dimming by means of 1-10V signal. It can be linked to the **gesis**®FLEX system. The module receives its power supply from an upstream gesis®FLEX module. The KNX connection is pluggable. All connections to the luminaires are

pluggable according to IEC 61535 and separate automation and installation.

Connections All connections pluggable with approx. 30cm conductor length **KNX Connection** BST14i2 male connector on the module Mains connection 230 / 400 V from the upstream gesis®FLEX module

Luminaire connection 2 x GST18i5 pastel blue **Functions**

max 100 mA, typical 50 dynamic EVGs 230 V AC / 16 A AC1 or 10 A AX $\,$ Control output 1-10V Switching output Manual operating level button for Broadcast operation **Dimensions** (excluding conductors) length: 130 mm mounted width: 173 mm included screwed joints

height: 80 mm without top-hat rail Mounting surface-mounted on TH35 mounting rail, systemcompatible

mounting frame or flat mounting surface Accessories modules from the *gesis*®FLEX series mounting frame, see page 26

Analog input gesis®FLEX REG



Туре	Std. Pack	Part No.
gesis FLEX REG 8/0 AE housing device	1	G0.000.0667.0 gesis FLEX REG4 without transparent cover ABB AE/S4.2

The 4-fold analog input (ABB AE/S4.2) is an independent KNX device, the surface mounted housing can be fitted on DIN rails for decentralized installation. It can capture four analog input signals from commercially available sensors. It can be linked to the *gesis**FLEX system. The module receives its power supply from an upstream *gesis**FLEX module. The KNX connection and all connections to the sensors are pluggable and separate automation and installation.

Connections
All connections pluggable with approx. 30 cm conductor length
KNX Connection
BST14i2 male connector on the module
Mains connection
230 V from the upstream **gesis**® FLEX module
Analog inputs
4 x BST14i3 white

Functions
Input Parameterizable sensor type
Input resistance for voltage detection
Input resistance for current detection
Dimensions (excluding conductors)

Parameterizable sensor type
> 50 kOhm
260 Ohm
Input resistance for current detection
Input resistance for current detection
Input resistance for current detection
Input resistance for voltage detection
Input resistance for current detection
Input resi

length: 130 mm mounted width: 173 mm included screwed joints

Mounting height: 80 mm without top-hat rail surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface

Accessories modules from the **gesis**® FLEX series mounting frame, see page 26 connector, see from page 84

FI/LS combination gesis®FLEX REG



Туре	Std. Pack	Part No.
gesis FLEX-REG FI_LS housing device	-	G0.000.0667.3 gesis FLEX REG4 without transparent cover ABB DS201 B16 0,03A

The RCCB/MCB combination with the flat cable tap for Wieland 10 mm² flat cable is used for decentralized fuse, the surface mounted housing can be fitted on DIN rails for decentralized installation. It can be mechanically linked to the *gesis*°FLEX system and forwards *gesis*°FLEX bus and mains to downstream module. The fused output is pluggable according to IEC 61535 and separates automation and installation.

Connections

Accessories

Input Flat cable adapter 10mm² Wieland 92.050.8353.0
Tap-off L1 on flat cable adapter, can be modified to L2/L3

Output 1 x GST18i3 black

Manual operating level Button for Broadcast operation

Dimensions (excluding conductors) length: 130 mm mounted

width: 173 mm included screwed joints height: 80 mm without top-hat rail

Mounting surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface

modules from the **gesis**° FLEX series mounting frame, see page 26 connector, see from page 84

System extensions mains



Type	Std. Pack	Part No.
Mains extension 0.5 m	1	91.257.0500.2
Mains extension 1.0 m	1	91.257.1000.2

The mains extension for the flat surface-mounted module system for decentralized installation, which can be mounted on a mounting rail, may have a length of no more than one meter in the system. It locks automatically upon insertion. The mechanical coding means that the mains connection cannot be confused with the bus connection.

Mains extension

Nominal voltage 230/400 V Nominal current 3 x 16 A Connector system GST15i5 white

Installation connecting and locking on the **gesis**® FLEX modules

System extensions bus



Type	Std. Pack	Part No.
Bus extension 0.5 m	1	99.400.9999.8
Bus extension 1.0 m	1	99.401.9999.8

The extension of the internal bus for the flat surface-mounted module system for decentralized installation, which can be mounted on a mounting rail, may have a length of no more than one meter in the system. It locks automatically upon insertion. The mechanical coding means that the mains connection cannot be confused with the bus connection.

Mains extension

Nominal voltage 50 V Nominal current 10 A

Connector system GST15i5 light blue

Installation connecting and locking on the **gesis®** FLEX modules

Y-cable for DALI applications



Туре	Std. Pack	Part No.
PVC cable 0.5 m	1	99.404.9999.8
Halogen-free cable 0.5 m	1	99.405.9999.8

DALI Y connection cable, one male connector for feed in power GST 18i3 - Code 1, black and DALI GST15i2 - code 2, pastel blue to a common female part GST18i5 - code 2, pastel blue for DALI wiring, length 0.5m.

Power supply unit 24 V, 2.4 A gesis®FLEX REG



Type Std. Pack Part No.

gesis FLEX REG PS24-2.5 1 G0.000.0667.2
housing gesis FLEX REG4 without transparent cover device Wieland switched-mode power supply wipos PB1 24-2.5

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. It can be linked to the *gesis*°FLEX system. The module receives its power supply from an upstream *gesis*°FLEX module. The output is pluggable according to IEC 61535 and separates automation and installation.

Connections All connections pluggable with approx. 30 cm

conductor length

 $\begin{array}{ll} \mbox{Mains connection} & 230 \mbox{ from the upstream } \mbox{\it gesis$^{\circ}$ \tiny FLEX module} \\ \mbox{Output voltage} & 24 \mbox{ V DC (adjustable to 28 \mbox{ V DC)}} \end{array}$

2.5 A

Output current

Accessories

Dimensions (excluding conductors) length: 130 mm mounted

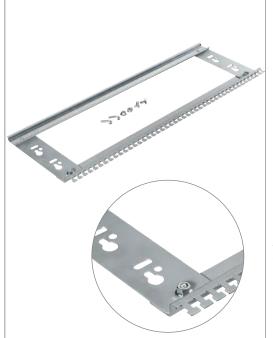
width: 173 mm included screwed joints height: 80 mm without top-hat rail

height: 80 mm without top-hat rail

Mounting surface-mounted on TH35 mounting rail, systemcompatible

mounting frame or flat mounting surface modules from the **gesis**® FLEX series mounting frame, see page 26

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.

Installation

in cable duct with accompanying flat-head screws on mesh cable trays with accompanying clip bolts

screw fastening to other substrates

Mounting rail TH35 integrated

Attachment of the cables with cable ties to the hammer head profile width: see above

height: 230 m

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	Order number
195 mm	95 mm	130 mm		
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

Covers



Type	Stu. I ack	Tallino.
Set with two covers	1	99.061.9999.9

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 protective caps.

Mounting

Connecting and locking on the $\textit{gesis}^{\texttt{@}} \, \texttt{FLEX}$ modules

Recommendation: Space for labels



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 customized label 70 x 26.7 mm, 30 pieces on A4 sheet

Art. no. Avery customized label 3489

gesis®RM

KNX-modular devices for flexible and decentralized installation

Versatile

- 11 different extension modules
- DALI, EnOcean coupling to KNX

Modular

- Only required functions are installed
- Only one physical address
- Functions freely selectable

Configuration

- To be installed in a decentralized **gesis**®RAN distributor
- From the tender text to the distribution plan, you receive everything from Wieland

Mounting

- On mouting rail TH35 in a housing
- or directly in the **gesis**®RAN distributor



Compact

- Heights under 55 mm inclusive of housing possible
- Dimensions and connection variants of the housing selectable





Connections selectable

Installed in a housing the connection type is pluggable or self-connection selectable

Decentralized

- Downsized cable lengths and quantities
- Clear management
- Small sub-distributors, technical rooms

Built-in in individual distributors

- Distributors (**gesis**®RAN) according to customers requirements
- Dimensions freely selectable
- Installations individual
- Wiring and distribution plans are supplied





gesis® RM

The modular, project-specific system for KNX and radio control



Common data of the gesis®RM device series

Dimensions (length/width/height in mm)

Width in the direction of the DIN rail (MW)

Height

Housing

Housing color

Installation type

Depth incl. mounting rail TS 35x7.5

Degree of protection

49mm (2.7 MW)

100mm

52mm

IP00

Due to degree of protection IP00 the devices must be installed

inside a *gesis*® distribution box or a similar housing.

halogen-free

black

Diaci

on TH 35 mounting rail

Software The extension modules are managed exclusively in the base module KNX Product database for ETS available at www.wieland-electric.com

		KNX base module 83.020.0400.0	Power supply unit 1-fold 83.020.0401.0	Power supply unit 2-fold 83.020.0421.0	Binary input 8-fold 83.020.0402.0	Radio input 16-fold 83.020.0408.0	Switching output 4-fold 83.020.0403.0	Sunblind output 2-fold 230 V 83.020.0404.0	Sunblind output 2-fold 24 V DC 83.020.0407.0	Switching/dimming output, 2-fold 83.020.0405.0	Universal dimmer 2-fold 83.020.0409.0	DALI output 2-fold 83.020.0410.0	Semiconductor output 4-fold wide range 83.020.0406.0	Semiconductor output AC 83.020.0411.0	Semiconductor output DC 83.020.0412.0
	Management of x extension modules (slots on the base module)	4													
	Supply for x base modules		1	2											
	x slots occupied				1	2	1	1	1	1	1	1	1	1	1
	Binary inputs				8										
	Radio inputs					2 x 8									
so	Switching outputs, 16 A (relay)						4								
Functions	Sunblind outputs 230 V 5 A							2							
Ē	Sunblind outputs 24 V DC 5 A								2						
	Switching/dimming output 230 V / 1 – 10 V									2					
	Universal dimmer 2 x 250 V A RLC load										2				
	DALI output broadcast 2 x 8 EBs											2			
	Semiconductor output 24 – 230 V AC/DC 0.5 A												4		
	Semiconductor output 230 V AC 0.5 A													4	
	Semiconductor output 24 V DC 0.5 A														4
Voltage/	Auxiliary voltage / supply 230 V	_													
supply	Auxiliary voltage 12V RM power supply														
	0.14 – 1.5 mm² solid (inputs)														
Screw terminals	0.14 – 1.0 mm² solid (inputs)	_													
terminais	0.14 - 4.0 mm ² solid														
Antono	0.14 – 2.5 mm² fine stranded														
Antenna connection	SMA socket														



Office with heating/cooling system with gesis® EIBRM

Requirements for each office

- two switched lighting circuits
- one sunblind
- one heating valve (24 V, 2-point control)
- one cooling valve (24 V, 2-point control)
- window position detection
- push-buttons and room temperature controllers with direct bus capability
- separate incoming supply for lighting and sunblinds

Realization

Two offices are controlled with one **gesis®**RAN distribution unit equipped with the following modules:

1 x base module KNX gesis EIB RM2-BAS

1 x switching application 4-fold lighting gesis RM-0/4

1 x sunblind output 2-fold gesis RM-0/2W SI

1 x semiconductor switching output 4-fold

heating/cooling valves gesis RM-4HL

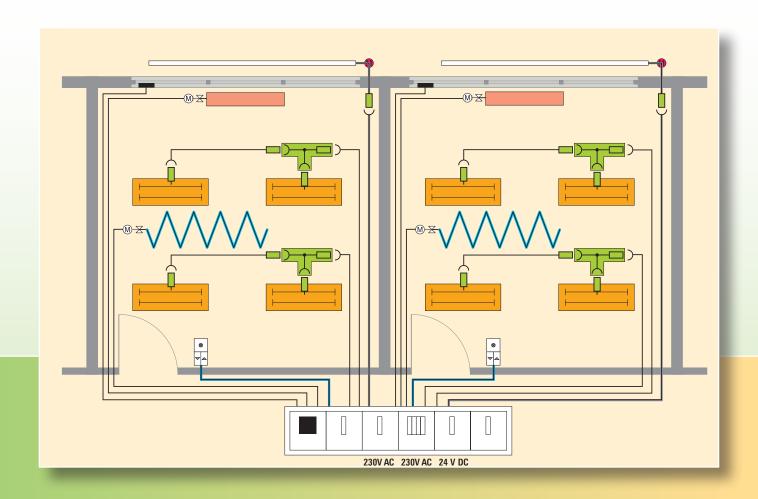
1 x binary input 8-fold

window contacts gesis RM-8/0 (12)

Installation of the modules inside a customized **gesis®RAN**.

Note

The binary input still has six available input contacts. These can be used, for example, for conventional push-buttons to control the sunblinds directly at the window.



KNX RM base module



The KNX RM base module manages up to four extension modules. The extension modules are connected with a flat cable to the base module; the flat cable is supplied with the extension modules. Regardless of the number of extension modules, the module counts as one physical address.

Туре	Part No.
gesis EIB RM2-BAS	83.020.0400.3
Infeed:	
Supply	12 V DC from gesis RM-PS
Bus	KNX TP 1
Outputs:	four slots for flat cables to the
	extension modules

gesis RM-PS

83.020.0401.0

Part No.

Power supply unit for one base module

Accessories:

gesis RM-PS



One base module can be connected to the power supply unit. The power supply unit supplies the base module and, through it, the connected extension modules, too.

Infeed: Supply Output:	230 V AC 12.5 V DC SELV / 160 mA	

for one base module

Power supply unit for 2 base modules



Two base modules can be connected to the power supply unit. The base module and, through it, also the extension modules are supplied with energy.

туре	Part No.	
gesis RM-PS 12/5	83.020.0421.0	
Infeed:		
Supply	230 V AC	
Output:	12.5 V DC SELV / 400 mA	

for two base modules

Extension module binary input 8-fold



Eight independent potential-free contacts can be connected to the binary input. The scanning voltage of 12V DC is provided by the module.

Type	Part No.
gesis RM-8/0 (12)	83.020.0402.0
Infeed:	
Supply	230 V AC
Base module	pluggable flat cable on the front panel
Inputs:	
Quantity	8, for potential-free contacts max. cable length 100 m each
Scanning voltage	12 V DC SELV, provided by the module

Extension module radio input EnOcean 2 x 8-fold



The radio input can manage 2 groups of eight inputs each. One slot per group is required on the base module. The radio sensors (e.g. push-buttons) are assigned directly on the module without any additional software (EnOcean learn mode).

Туре	Part No.
gesis RM-16/0 (RC)	83.020.0408.0

Infeed:

Accessories:

Base module pluggable flat cable on the front panel

Inputs: 2 x 8, EnOcean sensors

a total of 170 EnOcean telegrams can be programmed

for the 16 inputs RM base module

Accessories: RM base module antenna with SMA plug; we recommend the Wieland antenna

83.020.0503.0

Antenna for EnOcean devices with external antenna



The 868.6 MHz antenna is suitable for connection to Wieland *gesis* devices with a SMA socket. The black antenna can be fastened with a magnetic foot and has a 2.5 m connection cable.

 Type
 Part No.

 Antenna
 83.020.0503.0

Antenna

- 868.3 MHz antenna
- fastened with magnetic foot
- incl. approx. 2.5m connection cable and SMA plug

Extension module binary output 4-fold



The 4-fold switching output has four independently controllable relays. Strict isolation of the relay outputs enables connection of various phase conductors.

Туре	Part No.	
gesis RM-0/4	83.020.0403.0	

Infeed:

Supply switching voltage for the outputs from the base module pluggable flat cable on the front panel

Outputs: 4, potential-free contacts 230 V; 16 A ohmic load
Accessories: RM base module

Extension module 2-fold sunblind output



The 2-fold sunblind output for 230 V motors with two directions of rotation can directly position the sunblind and the slat angle for each of the two outputs separately. Fusing of the outputs inside the module considerably facilitates troubleshooting in the case of a short circuit inside the sunblind circuit.

Type	Part No.
gesis RM-0/2W SI	83.020.0404.0
Infeed:	
Supply	230 V AC (switching voltage for outputs)
from the base module	pluggable flat cable on the front panel
Outputs:	
Quantity	for potential-free change-over contacts with neutral center position
Fuse	230 V / 5 AT integrated in the device for the two outputs together

RM base module

Extension module sunblind output 2-fold for 24V DC drives

Accessories:

Accessories:



The 2-fold sunblind output for 24V DC motors with two directions of rotation (pole reversion) can optionally position the two outputs separately. Fusing of the outputs inside the module considerably facilitates troubleshooting in the case of a short circuit inside the sunblind circuit.

gesis RM-0/2W DC	83.020.0407.0
Infeed:	
Supply	24V DC (switching voltage for outputs)
from the base module	pluggable flat cable on the front panel
Outputs:	
Quantity	2, potential-free with pole reversion
Fuse	5 AT integrated in the device for both outputs together
Rated voltage	6 – 24 V DC

RM base module

Extension module 2-fold switching/dimming output



The switching/dimming actuator has two isolated outputs with one switching and one control output each. Strict isolation of the outputs enables connection of various phase conductors.

	gesis RM-0/2SD	83.020.0405.0	
3			
	Infeed:		
	Supply	230 V AC for supply of the electronic	
		230 V AC (Switching voltage for outputs)	
	from the base module	Pluggable flat cable on the front panel	
	Outputs:	2	
	Main power supply	potential-free contacts for 230 V; 16 A	
	Control output	1 – 10 V, max. 50 mA (passive)	
	Accessories:	RM base module	

Extension module 2-fold universal dimmer



The universal dimmer has two isolated outputs. Both outputs can automatically be adapted to the dimming behavior of the connected load (R, L, C). Mixed loads per output are not possible.

gesis RM-0/2D	83.020.0409.0
Infeed:	
Supply	230 V AC (main supply voltage to be dimmed)
from the base module	pluggable flat cable on the front panel
Outputs:	2
	0 - 230 V AC, max. 250 V A each
	R, L, C load (self-recognition)
Accessories:	RM base module

Part No

Extension module 2 x 8-fold DALI actuator



The DALI output has two isolated output circuits. These are used as a master and control the maximum of 8 connected electronic ballasts via broadcast commands. Error feedback is possible for each output.

Туре	Part No.
gesis RM-0/2DA	83.020.0410.0

Infeed:

Supply 230 V AC

from the base module pluggable flat cable on the front panel

Outputs: 2, DALI as master

max. 8 DALI EBs each (16 mA) commands as broadcast

Accessories:

Extension module 4-fold semiconductor output universal



The semiconductor output is used to control four isolated circuits, for example, for electrothermal valves. As it is capable of switching 24V to 230V AC or DC, it is ideally suited to avoiding planning mistakes.

Type	Part No.
gesis RM-0/4 (HL)	83.020.0406.0

Infeed:

Supply switching voltage for the outputs from the base module pluggable flat cable on the front panel

Outputs: 4, semiconductor outputs

4, semiconductor outputs 230 V AC or 24 V DC, max. 0.5 A per output

Accessories: RM base module

Extension module 4-fold semiconductor output AC



The semiconductor output is used to control four isolated circuits, for example, for electrothermal valves.
The switching voltage is 230 V AC.

Гуре	Part No.
gesis RM-0/4 HL AC	83.020.0411.0

Infeed:

Supply switching voltage for the outputs from the base module pluggable flat cable on the front panel **Outputs:** 4, semiconductor outputs

12 – 230 V AC, max. 0.5 A per output

Accessories: RM base module

Extension module 4-fold semiconductor output DC



The semiconductor output is used to control four isolated circuits, for example, for electrothermal valves. The switching voltage is 24 V DC.

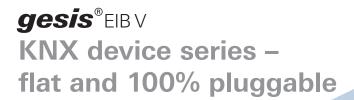
Туре	Part No.
aesis RM-0/4 HL DC	83.020.0412.0

Infeed:

Supply switching voltage for the outputs from the base module pluggable flat cable on the front panel

Outputs: 4, semiconductor outputst 24V DC, max. 0.5A per output

Accessories: RM base module



Easy to install

- Direct decentralized installable
- Integrated locking device
- With only 32 mm height extremely flat

KNX®

Planning and configuration

- Clear wire management
- Extensive parameter sets
- Defined functions each device

Compact and robust

- Fits direct under cable ducts without space requirement in this height
- Can be applied in low, elevated floors
- Only 32 mm high



Open system ■ KNX-TP with simple wire structures KNX is world-wide standardized Interoperability all manufacturers by KNX Simple and error-free ■ 100% pluggable electrical connections ■ No faulty connection possible ■ Fits in many, also low, installation spaces **Decentralized** Downsized cable lengths and quantities Clear wire management Small sub-distributors, technical rooms



Common data of the gesis® EIB V device series

Dimensions

(length/width/height in mm) 255/112/32 (71 incl. combined distribution block)

Degree of protection IP20

Housing halogen-free

Housing color light gray similar to RAL7035

Installation type surface mount with screw fastening

Electrical connections only pluggable

Connectors and cables see the product range of the pluggable electrical installation system **gesis**®

Certification KNX-certified

Software Product database for ETS at www.wieland-electric.com

				83.020.0212.0	83.020.0212.4	83.020.0213.0	83.020.0213.4	83.020.0214.0	83.020.0221.0	83.020.0221.4	83.020.0222.4	83.020.0225.0	83.020.0225.4
			Switching output	1	1			6				4	4
	tione		Sunblind output 2						2	2	2		
	Sunblind output 2 Internal fuse 5 AT												
			Switching/dimming output			2	2						
		Main supply input	Three-phase, 5-pole (GST 18i5 black)										
- *_		Main s inp	Single-phase, 3-pole (GST 18i3 black)										
ctio		KNX input	2-pole BST green										
oune		Z ; E	2-pole BST green spaced										
tor/c			3-pole GST 18i3 black										
Connector/connection*)		Output	4-pole GST 18i4 black										
ప		Out	5-pole GST 18i5 black										
			5-pole GST 18i5 pastel blue										

 $^{^{*)}}$ See the product range of the pluggable electrical installation system gesis CON



Room installation

Requirements for each office

Realization

The offices will be continuously with a flat cable 5 + 2-pole (main and bus) on the window side and with a flat cable 2-pole (door side) installed.

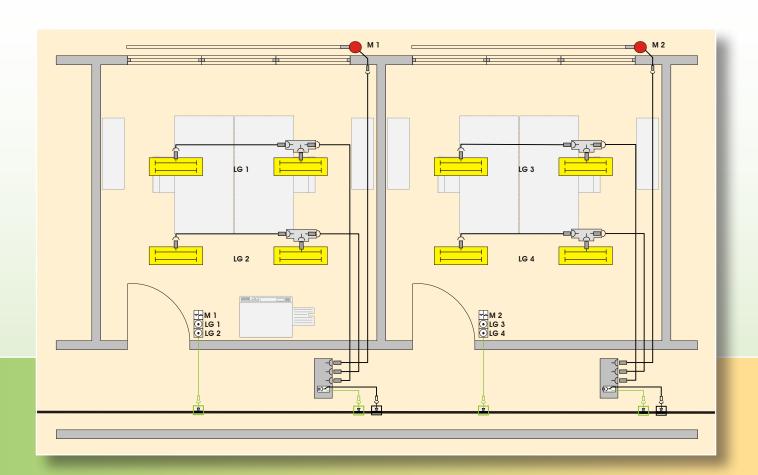
The combined actuatuor and the push-button interfaces will be connected with short pre-assembled cables and flat cable adapters to the flat cable 5 + 2-pole.

Alternatively, preassembled round cables and distribution blocks can be used for main power and bus supply.

Connection components used

Automation devices used

2 x combined actuators gesis EIB V-0/2+1W 2 x KNX push-button interfaces, 4-fold gesis KNX TA 4/4



2-fold sunblind output for complex sunblind controls



 Type
 Part No.

 gesis EIB V-0/2W B
 83.020.0221.0

 Three-phase main supply connection
 (output A1 → L1; A2 → L2)

 gesis EIB V-0/2W B SP
 83.020.0221.4

 Single-phase main supply connection
 (3-pole)

 gesis EIB V-0/2W F SP
 83.020.0222.4

 Single-phase main supply connection
 (3-pole)

The sunblind output for shutter automation features a very low profile, has a three or singe phase mains supply and two sunblind outputs. The software allows very comfortable and energy saving shutter automation. No additional housings are required for mounting e.g. in suspended ceilings or false floors. All electrical connections are pluggable. On of them has an internal miniature fuse

(5AT) for both outputs in common.

Infeed:

Internal fuse 5 AT

Mains 230/400 V AC, 16 A, GST18i3 or GST18i5 black, male

connector in the module

5 AT for both outputs together

KNX KNX-TP1, BST14i2, green, male connector in the module

Outputs:

Nominal voltage 230 V AC

Switching current max. 16 A ohmic load

Plug system GST18i4, black, female connector in the module

4-fold switching output with increased functionality



gesis EIB V-0/4 B 83.020.0225.0
Three-phase main supply connection
gesis EIB V-0/4 B SP 83.020.0225.4

Single-phase main supply connection (3-pole)

The switching output features a very low profile, has a three or single phase mains supply and four outputs. No additional housings are required for mounting e.g. in suspended ceilings or false floors. All electrical connections are pluggable.

Infeed:

Mains 230/400 V AC, 16 A, GST18i3, GST18i5 black, male

connector in the module

NX KNX-TP1, BST14i2, green, male connector in the module

Outputs:

Nominal voltage 230 V A

Switching current max. 16 A ohmic load

Plug system GST18i3, black, female connector in the module

6-fold switching output



ı	Type	Part No.
	gesis EIB V-0/6 Three-phase main supply connection	83.020.0214.0 (output A1/A4 \rightarrow L1; A2/A5 \rightarrow L2; A3/A6 \rightarrow L3)

The switching output features a very low profile, has a three phase mains supply and six outputs. No additional housings are required for mounting e.g. in suspended ceilings or false floor. All electrical connections are pluggable.

Infeed:

Mains 230/400 V AC, 16 A, GST18i3, GST18i5 black, male

connector in the module

KNX KNX-TP1, BST14i2, green, male connector in the module **Outputs:**

Connection with combined with three outputs in a 5 pole connector (e.g. A1, A2, A3, N, ground)

Nominal voltage 230 V AC Switching current max. 16 A ohmic load

Plug system GST18i5, black, female connector in the module

Combined actuator with 2-fold switching and 1-fold sunblind output



gesis EIB V-0/2+1W 83.020.0212.0

Three-phase main supply connection (output A1 \rightarrow L1; A2 \rightarrow L2; A3 \rightarrow L3)

gesisEIB V-0/2+1W SP 83.020.0212.4 Single-phase main supply connection (3-pole)

The combined output features a very low profile, has a three or single phase mains supply, two switching and one sunblind output. No additional housings are required for mounting e.g. in suspended ceilings or false floors. All electrical connections are pluggable.

Infeed:

Mains 230/400 V AC, 16 A, GST18i3, GST18i5 black, male

connector in the module

KNX-TP1, BST14i2, green, male connector in the module KNX

max. 8A ohmic load

Outputs: Rated voltage 230 V AC

Switching current-switching output A1, A2 max. 16A ohmic load

Plua system GST18i3, black, female connector in the module Switching current-sunblind output A3

Plug system GST18i4, black, female connector in the module

2-fold switching/dimming output



Part No. gesis EIB V-0/2SD 83.020.0213.0

Three-phase main supply connection (output A1 \rightarrow L1; A2 \rightarrow L2)

gesis EIB V-0/2SD SP 83.020.0213.4 Single-phase main supply connection (3-pole)

The switch- dimming output features a very low profile, has a three or singel phase mains supply and two outputs for signal dimming 1-10V with switched 230V. No additional housings are required for mounting e.g. in suspended ceilings or false floors. All electrical connections are pluggable.

Infeed:

Mains 230/400 V AC, 16 A, GST18i3, GST18i5 black, male

connector in the module

KNX KNX-TP1, BST14i2, green, male connector in the module

Outputs: Rated voltage

max. 16A ohmic load Switching current 1 - 10 V / max. 50 mA (passive) Control output

GST18i5, pastel blue, female in the module Plug system

gesis®KNX System devices, sensors and more

Energy efficiency

- KNX is the backbone of the efficiency of buildings
- To 35% savings of electrical energy*
- To 70% savings of heating energy*

Range of applications

- Light, sunblind and room control
- Smart meetering
- Automation, visualization, remote access, ...
- Energy optimization

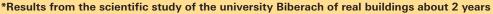
Widespread

- More than 400 manufacturers from different areas of application
- Approx. 50.000 partners in more than 135 countries
- Approx. 360 certificated schools in 59 countries
- Syllabus in various training areas

Standardized system

- KNX is the worldwide standard for home and building automation
- European standard EN 50090
- Worldwide standard ISO/IEC 14543





Interoperability

- The best from every manufacturer to use
- Simple integration different products
- A manufacturer neutral software (ETS) for commissioning
- A high number of competitors ensures for competition.
- Future security by neutrality

Simple

- Products of different manufacturers are useable in one system
- Clear installation structures for all building sizes
- Developed and proven for electrical installation

Future security

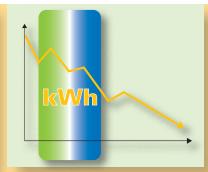
- More than 400 manufacturers are working interoperable together
- Worldwide standard system
- Million of times proven
- Operates all common and modern media

Further informations

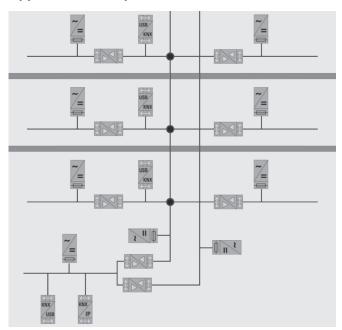
- www.knx.org
- National KNX organization www.knx.org communitynational groups







Application example



General

The internationally standardized system for home and building automation functions with multivendor devices and can be used by all trades. It is therefore excellently suited to satisfying the desire for continuously optimized power utilization in buildings.

The system has no central control. It starts with a line with max. 64 bus devices and can be extended throughout various sections up to a system with more than 14,000 bus nodes. Thus it is suitable both for small and for very large buildings.

Radio, Powerline and Twisted-Pair are available as transmission media. Due to the system characteristics the Wieland devices exclusively function with the Twisted-Pair technology on KNX side.

See the following pages describing the devices for the following topics.

		F0.000.0034.5 / F0.000.0034.6	F0.000.0034.7	F0.000.0034.8 / F0.000.0034.9	F0.000.0017.3	F0.000.0032.0	F0.000.0032.7	F0.000.0032.1	F0.000.0032.6	F0.000.0032.3	F0.000.0032.4	F0.000.0032.5	F0.000.0038.3	F0.000.0038.4	F0.000.0038.5	83.020.1413.0	83.020.1414.0	83.020.1415.0	83.020.1416.0	83.020.1417.0	83.020.1418.0
	KNX voltage supply / mA															160	320	640			
	KNX interfaces																				
	USB <-> TP																				
	Line/backbone coupler TP/TP																				
	IP Router TP / LAN IP																				
	DALI Gateway DALI / TP																				
	Presence detectors and constant light																				
	Motion detection																				
	Standard room thermostat	q	r	r																	
	Fan coil room thermostat																				
	Fan coil output																				
ors	Continuous, direct KNX-TP connection																				
ctuat	2-point electrothermal / voltage								24	230											
Valve actuators	Adapter ring VAxx										78	80									
Va	Push-button linkages / number of inputs												2	4	6						
=	DIN rail installation / MW				4											4	4	4	2	2	2
e of Ilatio	On / in outlet socket																				
Type of installation	Installation hole, 64 mm diameter																				
	at heating / cooling valve																				
	KNX																				
Voltages	230 V																				
Volt	24 V																				
	DALI																				



Office with heating/cooling system and constant light control

Requirements

The heating and cooling function of each room is to be controlled separately. A window contact is to be integrated into the system for energy-optimizing control. The lighting is dimmed with an presence detector and the room temperature is optimized. The conventional push-buttons for controlling light and sunblinds can be integrated into the building automation via push-button interfaces.

Realization

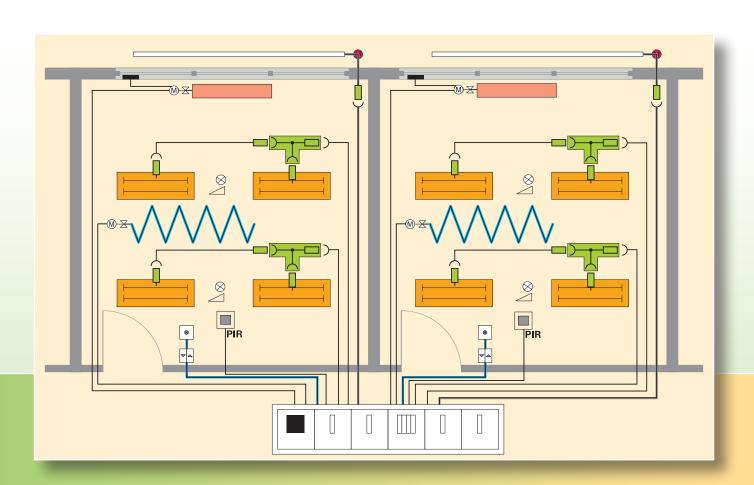
The necessary sensors are installed in each office. The drives for the control valves are connected directly to the KNX. The outputs for the lighting and the sunblinds from the *gesis*® EIBRM series are used and installed decentrally with a *gesis*® RAN for two offices each.

The following modules are required for that:

2 x room thermostats	gesisknxrtrsp
2 x presence detectors	gesisknxppsu
2 x push-button interfaces 6-fold	gesis KNXTA 6/4 B
$4 \times continuous actuator with binary input$	gesisknxths
1 x base module KNX	gesis EIB RM2-BAS
1 x voltage supply	gesis RM-PS
2 x switching/dimming output	gesis RM-0/2 SD
1 x sunblind output	gesis RM-0/2 SI

Note

The controls can be modified from a central point (e.g. night mode, weekend mode). Additionally, the set values for the heating/cooling valves can be evaluated centrally to achieve perfect regulation of the primary heaters/coolers.



Power supply unit KNX 160 mA



Power supply unit for KNX TP1 networks with integrated choke and a rated current of 160 mA. The DIN rail mount device for distribution unit installation supplies KNX devices on shorter lines. The voltage is tapped off a terminal block at the front of the housing.

Туре	Part No.
gesis KNX PS160	83.020.1413.0
Electrical data:	
Infeed	120 to 230 V AC
Output voltage	29 V DC SELV
Output current	160 mA
Bus connection	terminal block
Choke	integrated
Mechanical data:	
Installation	DIN rail mount device for TH35

Power supply unit KNX 320 mA



Power supply unit for KNX TP1 networks with integrated choke and a rated current of 320 mA. The DIN rail mount device for distribution unit installation supplies KNX devices on standard lines. The voltage is tapped off a terminal block at the front of the housing.

Width

Туре	Part No.
gesis KNX PS320	83.020.1414.0
Electrical data:	
Infeed	120 to 230 V AC
Output voltage	29V DC SELV
Output current	320 mA
Bus connection	terminal block
Choke	integrated
Mechanical data:	
Installation	DIN rail mount device for TH35

4 MW (72 mm)

Part No

Power supply unit KNX 640 mA



Power supply unit for KNX TP1 networks with integrated choke and a rated current of 640 mA. The DIN rail mount device for distribution unit installation supplies KNX devices of a standard line and includes an output for the unchoked voltage through a second terminal block at the front of the housing. The unchoked voltage is tapped off a terminal block at the front of the housing.

Турс	Tare No.	
gesis KNX PS640	83.020.1415.0	
Electrical data:		
Infeed	120 to 230 V AC	
Output voltage	29 V DC SELV	
Output current	640 mA	
Bus connection	terminal block	
Choke	integrated	
Unchoked voltage	on terminal block	
Mechanical data:		
Installation	DIN rail mount device for TH35	
Width	4 MW (72 mm)	

USB interface



The interface is used to create a bidirectional connection between a PC and the KNX installation bus. The USB connection is electrically isolated from the KNX bus. The interface is compatible with the ETS (Engineering Tool Software), from ETS3 and higher, and is also supported by various visualization programs.

gesis KNX USB	83.020.1418.1
Electrical data	
	Alaman mile Alama Comp
	through the line
Bus connection KNX	terminal block
Infeed USB	via PC
Connection USB	USB socket type B, max. 5 m
Mechanical data:	
Installation	DIN rail mount device for TH35
Width	1 MW (18 mm)
	Electrical data: Infeed KNX Bus connection KNX Infeed USB Connection USB Mechanical data: Installation

Part No.

Line/backbone coupler



The line/backbone coupler is used to couple lines and backbones; it can be used as a line amplifier, too. Both the primary and the secondary lines are connected via terminal blocks.

Type	Part No.
gesis KNX LK	83.020.1416.0

Electrical data:

Primary line DC 24 (for device supply) Secondary line

Mechanical data: DIN rail mount device for TH35 Installation

IP router



The KNX IP router enables telegram routing between various lines through a LAN (IP) used as a fast backbone. This way the device replaces the KNX line coupling unit. In parallel, the KNX IP router can be used as an interface for bus access via IP. The IP address can be assigned via a DHCP server or through manual configuration (ETS).

Type	Part No.
gesis KNX IP-R	83.020.1417.0

Electrical data:

12 – 24 V AC or 12 – 30 V DC Infeed alternatively Power-over-Ethernet Power consumption < 800 mW

Connection - infeed screw terminals Bus connection terminal block LAN socket RJ45 Ethernet connection Mechanical data:

DIN rail mount device for TH35 Installation

Width 2 MW (36 mm)

Surge arrester KNX TP



The type 2 arrester with KNX certification for KNX-TP systems has been tested according to EN 61643-21. It can directly replace the terminal block on KNX devices. The 200 mm earthing conductor is connected directly to the device.

Туре	Part No.
gesis KNX OVP	F0.000.0008.3

Electrical data:

Arrester class

Rated/continuous voltage 24 V/45 V (for KNX TP)

KNX connection spring contact (as terminal, directly pluggable

to KNX device)

cables Ø 0.8 mm/200 mm long Ground connection cables 0.75 mm²/200 mm long

Mechanical data: Arrester in mm 12 x 11 x 11

Cables length approx. 200 mm

KNX connection module



The KNX connection module enables a simple tap of the KNX TP1 network in distribution units. The system integrator can access the network with the connection module, without removing field covers and therefore without interfering with the electrical installation.

туре	Fait NO.
gesis KNX REG AM	F0.000.0033.8
Electrical data:	
KNX	Twisted Pair (SELV)
Nominal current	3A
Connection type	terminal block (under distributor cover)
/ /	pluggable to outside (BST 14i2)
Mechanical data:	
Installation	on TH35 e.g. in distributors
Width	2 pitch units (36 mm)
Accessories:	
Connectors	BST 14i2 e.g. 93.422.0553.1

Presence detector



Presence detector for ceiling mounting with integrated bus coupling and mixed light measurement with a quadratic detection range (360°). With two/three outputs for controlling light groups, constant light control or switching, and two presence outputs for HLK control.

Туре	Part No.
gesis KNX P PSU	F0.000.0034.5
gesis KNX P PPU	F0.000.0034.6

Electrical data:

Infeed KNX TP1
Bus coupling Integrated

Detection range Horizontal 360°, vertical 120° Mixed light measurement 5 Lux - 3000 lx (gesis KNX P PPU)

Maximum detection range

Mounting height 3.5m: 8mx8m (PSU), 10mx10m (PPU)

Mounting height 2.5m: 6mx6m (PSU), 8mx8m (PPU)

Detection range of a seated person

Mounting height 3.0m: 5mx5m (PSU), 7mx7m (PPU)

Mounting height 2.5m: 4mx4m (PSU), 6mx6m (PPU)

0 °C ... +50 °C

Ambient temperature **Mechanical data:**

Mounting Flush-mounted box 72 mm (bore hole 73 mm)

Dimensions (visible) Diameter 110 mm, height 37 mm (PSU), 42 mm (PPU)

Protection type IP 20 (in installed state IP40)

Presence detector



Presence detector for ceiling mounting with integrated bus coupling and mixed light measurement with a round detection range (360°). With two outputs for controlling light groups, constant light control or switching, and two presence outputs for HLK control.

Туре	Part No.
gesis KNX P RPU	F0.000.0034.7

Electrical data:

Infeed KNX TP1
Bus coupling Integrated

Detection range Horizontal 360°, vertical 120°

Mixed light measurement 30 Lux - 3000 lx

Maximum detection range

Mounting height 3.5 m: 24 m diameter

Mounting height 2.5 m: 23 m diameter

Mounting height 3.0 m: 8 m diameter

Mounting height 2.5 m: 7 m diameter

Ambient temperature -15 °C ... +50 °C

Mechanical data:

Mounting Flush-mounted box 72 mm (bore hole 73 mm)

Dimensions (visible) Diameter 110 mm, height 46 mm
Protection type IP 20 (in installed state IP40)

Motion detector



Motion detector for ceiling mounting with integrated bus coupling and mixed light measurement with a round detection range (360°). With a brightness-dependent output for controlling light groups, and a presence output for HLK control.

Type	Part No.
gesis KNX M MSD gesis KNX M MPU	F0.000.0034.8 F0.000.0034.9

Electrical data:

Infeed KNX TP1
Bus coupling Integrated
Detection range Horizontal 360°
Mixed light measurement 30 Lux - 3000 lx

Detection range of a person walking across

Mounting height 3.5 m: Diameter 8 m (MSD), 24 m (MPU)

 $\label{eq:mounting} \mbox{Mounting height 2.5 m: Diameter 7 m (MSD), 23 m (MPU)} \mbox{Detection range of a person walking to the front}$

Mounting

Mounting height 3.0 m: Diameter 4 m (MSD), 8 m (MPU) Mounting height 2.5 m: Diameter 3 m (MSD), 7 m (MPU)

Ambient temperature -15 °C ... +50 °C **Mechanical data:**

Mounting MSD: in ceiling cutout with 62 - 70 mm diameter MPU: on flush-mounted box 72 mm (bore hole 73 mm)

Dimensions (visible) MSD: Diameter 74 mm, height 23 mm MPU: Diameter 110 mm, height 46 mm

Protection type IP 20 (in installed state IP40)

Push-button interface, 2-fold



The 2-fold push-button interface is a binary input/ output device. It can be installed together with conventional push-buttons/ switches in in-wall outlet boxes. This way all switching programs can be integrated into KNX systems. The inputs can be configured as outputs

Type	Part No.
gesis KNX TA 2/2 B	F0.000.0038.3

Electrical data:

Infeed KNX TP1

Inputs 2 for potential-free contacts 3.3 V / 0.5 mA

Scanning voltage Outputs 2 when configured as LED

Output current low current 1mA (LED 1 mA types)

Operating temperature -5°C to +45°C Mechanical data:

Installation in in-wall outlet box

Cable length 25cm, extendable to max. 5m

Dimensions 37 x 37 x 10 mm

Push-button interface, 4-fold



The 4-fold push-button interface is a binary input/ output device. It can be installed together with conventional push-buttons/ switches in in-wall outlet hoxes. This way all switching programs can be integrated into KNX systems. The inputs can be configured as outputs for LEDs.

Type	Part No.
gesis KNX TA 4/4 B	F0.000.0038.4

Electrical data:

Infeed KNX TP1

4 for potential-free contacts $3.3\,\text{V}$ / $0.5\,\text{mA}$ Inputs Scanning voltage

Outputs 4 when configured as LED

Output current low current 1 mA (LED 1 mA types)

-5°C to +45°C Operating temperature Mechanical data:

Installation in in-wall outlet box

Cable length 25 cm, extendable to max. 5 m

Dimensions 37 x 37 x 10 mm

Push-button interface, 6-fold



The 6-fold push-button interface is a binary input/ output device. It can be installed together with conventional push-buttons/ switches in in-wall outlet boxes. This way all switching programs can be integrated into KNX systems. Four of the six inputs can be configured as outputs for LEDs.

Туре	Part No.
gesis KNX TA 6/4 B	F0.000.0038.5

Electrical data:

KNX TP1 Infeed

6 for potential-free contacts Inputs

Scanning voltage 3.3 V / 0.5 mA

4 when configured as LED Outputs Output current low current 1 mA (LED 1 mA types)

-5°C to +45°C Operating temperature

Mechanical data: in in-wall outlet box Installation

25 cm, extendable to max. 5 m Cable length

37 x 37 x 10 mm Dimensions

KNX DALI gateway



The KNX DALI gateway N 141 is a KNX device with a DALI output for up to 64 DALI actuators (e.g. electronic ballasts with DALI interface). DALI sensors are not allowed to be connected to the output. All gateway functions are parameterized through the ETS

Type	I dit INO.
DALI Gateway N141	F0.000.0017.3

Electrical data:

Infeed - bus/main power supply

KNX TP1 / 110 - 240 V AC/DC max. 7 W Bus connection Terminal block and data rail Output - DALI approx. 16V max. 64 DALI EBs

Mechanical data:

Installation DIN rail mount device for TH35 Width 4 MW (72 mm)

49

Room thermostat



Room thermostats with integrated KNX bus coupling unit for control and regulation of valve controls and heating actuators. Three integrated inputs can be used for conventional switches/push-buttons or even for external temperature sensors (optional), window contacts or presence signals.

Туре	Part No.	
gesis KNX RTR SP	F0.000.0032.0	
Electrical data:		
Infeed	KNX TP1	
Bus coupling unit	integrated	
Setting range	10°C to 28°C	
Measuring range	0°C to 40°C	
Mechanical data:		
Installation	In in-wall outlet box 55 mm or surface mount	
Dimensions	80 x 84 mm with a height of 27 mm	

Degree of protection

Constant valve control



This motor-driven KNX valve control with two binary inputs and valve stroke indicator can be mounted to customary valves using an adapter (supplied). A fully automatic valve stroke detection dynamically adapts the contact path to the valve used.

Туре	Part No.
gesis KNX TH S	F0.000.0032.1
Electrical data:	
Infeed	KNX TP1
Valve stroke detection	Fully automatic
Operating temperature	0°C to 50°C
Mechanical data:	
Connection cable	approx. 1 m
Valve stroke	max. 7.5 mm; <20 s/mm; 120 N
Applicable valves	Danfoss RA, Heimeier, MNG, Schlösser from 3/93,
	Honeywess Braukmann, Dumser (distribution units),
	Reich (distribution units), Landis & Gyr, Oventropp,
	Herb, Onda
Degree of protection	IP21
Dimensions	82 x 50 x 65 mm

Fan coil room thermostat



This room thermostat with integrated bus coupling unit is used to control fan coil systems. It integrates a manual button for selection of the operating modes Off and Auto as well as the fan position. The three available binary inputs can be configured freely.

Туре	Part No.
gesis KNX RTR FC	F0.000.0032.7
Electrical data:	
Infeed	KNX TP1
Bus coupling unit	integrated
Setting range	10°C to 28°C
Measuring range	0°C to 40°C
Mechanical data:	
Installation	In in-wall outlet box 55mm or surface mount
Dimensions	80 x 84 mm with a height of 27 mm
Degree of protection	IP20

Valve control, 2-level control, 230 V



The electrothermal 2-level valve control for 230 V can be mounted to customary valves simply by using a valve adapter. Valve adapters are not included.

Part No.
F0.000.0032.3
230 V AC 50/60 Hz
1.8W
300 mA for max. 200 ms, 250 mA for max. 2 min
approx. 1 m
we recommend gesis MINI (GST15i2)
pre-assembly on request
approx. 2.5 min
(valve is closed without applying any power)
4 mm; 100 N;
order separately
IP54
60 x 44 x 61 mm
Delivery without valve

Valve control, 2-level control, 24V



The electrothermal 2-level valve control for 24V can be mounted to customary valves simply by using a valve adapter. Valve adapters are not included.

I, 47 V	
Type	Part No.
gesis TH P24	F0.000.0032.6
Electrical data:	
Infeed	24 V 0 – 60 Hz
Operating power	1.8W
Starting current	300 mA for max. 200 ms, 250 mA for max. 2 min
Mechanical data:	
Connection cable	approx. 1 m
Pluggable with gesis	we recommend gesis MINI (GST15i2)
	pre-assembly on request
Closing/opening times	approx. 2.5 min
	(valve is closed without applying any power)
Valve stroke	4 mm; 100 N;
Adapter	order separately
Degree of protection	IP54
Dimensions	60 x 44 x 61 mm
Comment:	Delivery without valve

Valve adapter ring VA78



Valve adapter ring VA 78 for easy installation of the valve controls. The adapter ring is placed on the valve, and the valve control is snapped on.

Туре	Part No.
gesis TH VA78	F0.000.0032.4

Mechanical data:

Applicable valves Danfoss RA

Valve adapter ring VA80



Valve adapter ring VA 80 for easy installation of the valve controls. The adapter ring is placed on the valve, and the valve control is snapped on.

	1,450	Turcivo.
	gesis TH VA80	F0.000.0032.5
	Mechanical data:	
e	Applicable valves	Onda, Schlösser built after 1992, Oventrop M30 x 1.5,

Roth (distribution units), Dinotherm (distribution units)

gesis®RC

EnOcean devices with radio technology

Range of applications

- Light, sunblind and room control
- Smart meetering
- Couplings to KNX, BACnet, LON...
- Automation, visualization, remote access, ...
- Energy optimization





Widespread

- More than 100 manufacturing companies are using the standard
- Proven in over thousand buildings
- Proven beyond Europes borders

Radiostandard

- EnOcean manufacturers are using the interoperable EnOcean equipment profiles for information transfer.
- Standardized in the ISO/IEC 14543-3-10
- 868 MHz Europe-wide in accordance with R&TTEspecification EN 300220



Simplicity

- No flush-mounted boxes for push-buttons
- No cables for signal transmission
- Radio systems without software configurable Easy Mode

Energy Harvesting

- Batteryless senors
- Maintenance-free
- Environmentally friendly

Radio control

- No cable routing
- No chiselling work, UP-boxes necessary
- Simple retrofitting

Further informations

- EnOcean
- www.enocean.com
- EnOcean Alliance
- www.enocean-alliance.org

Wieland









Data/radio technology

Technology Radio frequency Range

- Line-of-sight

- Plaster board/wooden walls

- Brick/gas-aerated concrete walls

Reinforced concrete walls/ceilings

 Considerable limitations in the range (up to the shielding of the radio signal). Use of the EnOcean protocol 868.3 MHz

Typically 30 m in aisles, up to 100 m in halls
Typically 30 m through a maximum of 5 walls
Typically 20 m through a maximum of 3 walls
Typically 10 m through a maximum of 1 ceiling/wall

All electrically conductive materials (mostly metals) between the transmitter and the receiver or near by impair the range.

Examples:

Insulating material on metal film; suspended ceilings as well as raised floors or panels made of metal or carbon fibers; lead glass or metal-plated glass; steel furniture; sensors mounted on metal, etc. Fire protection walls, stairwells, supply and elevator shafts or similar areas should be regarded as shields. Furthermore, the angle at which the radio signals hit the wall plays a major role. Depending on the angle the effective wall thickness, and thus the signal damping, changes. The signals should not hit the wall at a narrow angle, if possible. Wall niches should be avoided.

		Switching output, 4-fold 83.020.0500.0	Switching output, 4-fold 83.020.0500.2	Sunblind output, 2-fold 83.020.0501.1	Sunblind output, 2-fold 83.020.0501.2	Switching output, 4-fold IP68 83.020.0505.0	Switching output, 1-fold UP 83.020.0506.0	Window contact F0.000.0009.0	Gateway to KNX 83.020.0228.0	Binary input RM 83.020.0408.0	Handheld transmitter	Radio switch, multivendor	Radio switch	Hotel Card switch	Repeater F0.000.0024.5	Antenna 83.020.0503.0
	Switching output	4	4			4	1									
	Sunblind output			2	2											
	Dimming output (R, C load)															
ns .	Binary input									2x8						
Functions	Radio input / channel								32							
Ē	Window position							1								
	Pushbuttons (number of buttons /function)										1	2/4	2/4	1		
	Gateway to								KNX							
	Reception display / field intensity															
	Pluggable connections with gesis ®con					RST										
	Screw terminals															
	External antenna															
Properties	Surface mounting															
Prope	Box mounting															
_	DIN rail mounting															
	Frames from the Wieland product range													incl.		
	Frames from various suppliers															



Room installation with EnOcean push-buttons

Requirements for each office

- two switched lighting circuits
- an inboard glare protection
- No cabling option to the sensors

Remarks

If lighting and glare protection are controlled from a distance, then additional push-buttons will be on the corresponding outputs easily taught.

Realization

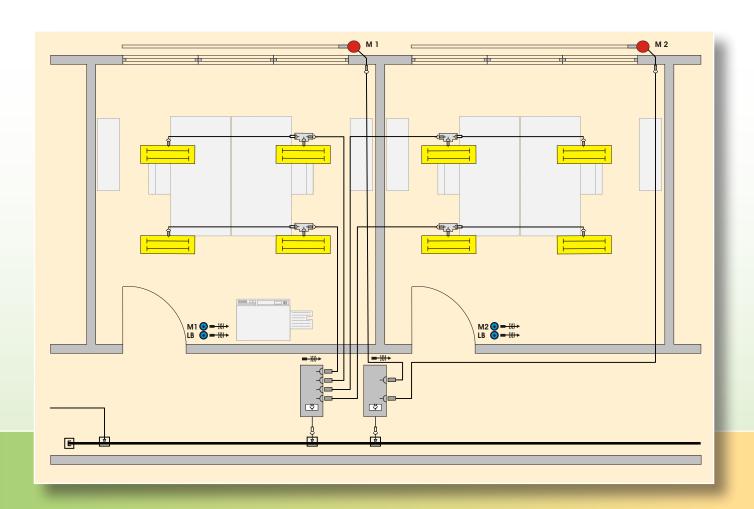
The switching outputs for the lighting and glare protection control each two office axis.

1 x Switching output 4-fold 1 x sundblind output 2-fold

2 x push-button 2-channel

2 x push-button 4-channel

gesis RC V-0/4 1PH gesis RC V-0/2 W 1PH non-proprietary up/down non-proprietary I/O



EnOcean Gateway



Туре	Std. Pack	Part No.
gesis FLEX-ENO32 without plug set	10	83.020.0628.0
gesis FLEX-ENO32 Z with plug set	1	83.020.0628.1 Female and male, BST14i2 (KNX)
Infeed Bus connection KNX EnOcean signals Output		BST14i2, green male connector in the module 32 channels, can be switched to bi-directional, all current EEPs
Bus connection KNX EnOcean signals Accessories		BST14i2, green female connector in the module 32 channels, can be switched to bi-directional, all current EEPs Base and extension modules from the <i>gesis</i> * FLEX serie

Radio input from the gesis®RM system



The radio input that has to be operated with a base module that conforms to the type of system can manage 2 groups of eight inputs each. One slot per group is required on the base module. The radio sensors (e.g. push-buttons) are assigned directly on the module without any additional software (EnOcean learning mode).

	1,750	1 41110.
	gesis RM-16/0 (RC)	83.020.0408.0
3		
	Infeed:	
	Base module	pluggable flat cable on the front panel
	Inputs:	2 x 8, EnOcean sensors
		a total of 170 EnOcean telegrams can be
		programmed for the 16 inputs
	Accessories:	
ì	Antenna	83.020.0503.0

Switching output, 4-fold (discontinuation 2016)



Output module with four relay outputs for switching four independent load groups with sensors that use EnOcean radio technology.

Type		Part No.
gesis RCV-0/4 1PH	1-phase main supply	83.020.0500.0
gesis RCV-0/4 B 1PH	1-phase main supply/antenna connection	83.020.0500.2

83.020.0400.3

Infeed:

KNX base module

Main power supply

Rated voltage 230 V AC (N, ground, switched phase conductor)

Switching current 16A ohmic load General data:

surface mounting, fixing with screws Installation

Degree of protection IP20

Dimensions (length/width/height) 254/112/32 mm

Sunblind output, 2-fold (discontinuation 2016)



Output module with two sunblind outputs for switching two independent sunblind motors with sensors that use EnOcean radio technology. In addition, each output has an alarm function.

I	Туре		Part No.
	gesis RCV-0/2WAL1PH	1-phase main supply	83.020.0501.1
	gesis RCV-0/2WALB1PH	1-phase main supply/antenna connection	83.020.0501.2

Main power supply

Rated voltage 230 V AC, (N, ground, up, down)

Switching current 5A ohmic load General data:

Installation surface mounting, fixing with screws

Degree of protection

254/112/32 mm Dimensions (length/width/height)

Switching outputs for outdoors in IP 68



EnOcean switching output in the IP68

surface housings for outdoor use features four 230 V relay. It can be programmed for 30 push-button pairs. All electrical connections are pluggable. Voltage and power supplies for LED and low-voltage halogen luminaires are available as accessories (See capter Outdoor installation

Туре		Part No.
gesis RCRST-0/4	4 relay outputs, 1 feed-through wiring	83.020.0505.0

Infeed:

Power input/output 230 V AC / 20 A connector, RST coding black

Outputs: Quantity

Connection type connector RST coding black

Rated voltage 230 V AC

Switching capacity 6A (max. two LED/LV halogen modules)

General data: Degree of protection IP68 (all connections plugged or closed)

104/162/96 mm Dimensions (length/width/height)

Mounting option 4 elongated holes

Switching output with 1 channel



Single-channel output module with screw connections. The small design enables installation in in-wall outlet boxes or surface mount.

Part No. gesis RCUP-0/1 83.020.0506.0

Infeed:

Туре

Power input 230 V AC screw clamp terminals

Outputs

Quantity Connection type

screw clamp terminals Rated voltage 230 V AC Switching capacity F0.000.0016.9 5A ohmic load

General data:

surface mounting, fixing with screws Installation

Degree of protection

Dimensions (length/width/height) 48/29/35 mm

EnOcean output



System **gesis** RC - Radio output 1-fold, surface mounted, pluggable.

The radio controlled (EnOcean) output has an on wall housing. It has one relay output and up to 30 pairs of rockers from EnOcean switches that can be programmed in. It can be installed as an adapter between feed in cable and e.g. luminaries. The electrical connections are pluggable.

gesis RC ZW-0/1B	F0.000.0016.9
Power supply system:	
Mains	230 V AC / 16 A
Connection type	GST18i3 coding black,
	Male connector in the switching output
Outputs	ū ,
Number	1
Connection type	GST18i3 coding black,
	Female connector in the swichting output
Rated voltage	230 V AC / 50 Hz
Switching capacity	10 A ohmic load
General data:	
Mounting	surface mounted (plaster)
Protection type	IP 20

108x70x35 (LxBxH) without connector

Part No.

Antenna for EnOcean devices with external antenna



The 868.6 MHz antenna is suitable for connection to Wieland gesis devices with a SMA female connector. The black antenna can be mounted using a magnetic foot and has a 2.5 m connection cable.

Antenna 83.020.0503.0

Antenna

– 868.3 MHz antenna

Protection type

Dimensions in mm

- mounted with magnetic foot
- incl. approx. 2.5 m connection cable and SMA connector

Multivendor radio switch, 2/4 channels



Туре	Color	Part No.	Marking
Radio switch, 2 channels	white	F0.000.0005.6	1/0
	anthracite	F0.000.0007.5	1/0
	aluminum finish	F0.000.0007.6	1/0
Radio switch, 2 channels	white	F0.000.0005.8	(△▼)
	anthracite	F0.000.0007.7	(△▼)
	aluminum finish	F0.000.0007.8	(△▼)
Radio switch, 4 channels	white	F0.000.0005.7	1/0
	anthracite	F0.000.0007.9	1/0
	aluminum finish	F0.000.0008.0	1/0
Radio switch, 4 channels	white	F0.000.0005.9	(△▼)
	anthracite	F0.000.0008.1	(△▼)
	aluminum finish	F0.000.0008.2	(△▼)





Batteryless and maintenance-free radio switches with 2/4 channels for direct control of the actuators. The rockers in neutral center position are marked with I/O or Up/Down ($\triangle \nabla$) symbols. These 55x55 mm switches enable installation in various designs of various manufacturers.

- batteryless and maintenance-free

- for mounting on flat surfaces with screws or adhesive pads (included in delivery)

- the radio switches fit the following frames with 55mm installation size following vendors: Berker: S1, B1, B3, B7 Glas Gira: Standard 55, E2, Event, Esprit Jung: A500, A plus Merten: M-Smart, M-Arc, M-Plan

Part No

Multivendor radio switches with 2/4 channels (light) (I / 0)

- the rockers are imprinted with I/O symbols

Multivendor radio switches with 2/4 channels (sunblind) (Up / Down) ($\triangle \mathbf{V}$)

the rockers are imprinted with Up/Down (△▼) symbols

Handheld radio transmitter, 4 channels



Handheld radio transmitter		
gesis RC B-04 WS S0 H	white	F0.000.0009.1
gesis RC B-04 SW S0 H	black	F0.000.0009.2
gesis RC B-04 SI S0 H	silver	F0.000.0009.3

Color

Batteryless and maintenance-free 4-channel handheld transmitter for direct control of the actuators.

Handheld radio transmitter

Batteryless and maintenance-freeHandheld remote control

Window contact



Part No. gesis RC S-SRWSENFK F0.000.0009.0

Supply:

Solar cells min. brightness 100 Lux (best from 400 Lux)

Power reserve min. 14 hours fully charged General data:

signal white similar to RAL 9003 Color

Dimensions (length/width/height) 110/19/15 mm Contact connector magnet 23/14/6 mm

Batteryless and maintenance-free window contact with integrated power buffer for night operation.

Installation surface

Radio switch, 2/4 channels glossy with suitable frame





This push-button series features a glossy, smooth surface. The radio switches with 2 or 4 channels do not require batteries or maintenance. The rockers are in neutral central position and without marking with 1/0 or up/down symbols. The matching frames for these push-buttons can be found below.





Frame for installation of the 2/4-channel glossy radio switches. Suitable for vertical and horizontal mounting.

Туре	Color	Part No.	Marking
Radio switch, 2 channels *	pure white pure white pure white piano black piano black piano black aluminum aluminum aluminum	F0.000.0025.0 F0.000.0025.2 F0.000.0025.4 F0.000.0025.9 F0.000.0026.1 F0.000.0026.3 F0.000.0026.8 F0.000.0027.0 F0.000.0027.2	1/0 (△▼) 1/0 (△▼) 1/0 (△▼)
Radio switch, 4 channels **	pure white pure white pure white piano black piano black piano black aluminum aluminum aluminum	F0.000.0025.1 F0.000.0025.3 F0.000.0025.5 F0.000.0026.0 F0.000.0026.2 F0.000.0026.4 F0.000.0026.9 F0.000.0027.1 F0.000.0027.3	1/0 (△▼) 1/0 (△▼) 1/0 (△▼)

- 2 channels represent one rocker in neutral center position.
 This function is defined in the receiver.
- ** 4 channels represent two rockers in neutral center position. This function is defined in the receiver.
- glossy surface
- batteryless and mainentance-free
- for installation on flat surfaces with screws or adhesive pads (included in delivery)

white	F0.000.0024.6
piano black	F0.000.0024.7
aluminum	F0.000.0024.8
	piano black

Energy self-sufficient Hotel Card switch for storage and simultaneous sending of an EnOcean telegram. Together with suitable actuators from the *gesis*® RC device series, the power supply of the room can be operated directly or the signal can be transmitted to the building automation.

Installation:		surface, stick-on or screws surface, on a standard in-wall outlet box	
Dimensions : Hotel Card		55 x 85 mm (standard dimensions)	
Combination frame 1-fold Combination frame 2-fold Combination frame 3-fold Combination frame 1-fold Combination frame 3-fold Combination frame 1-fold Combination frame 2-fold	pure white pure white pure white piano black piano black piano black aluminum aluminum	F0.000.0025.6 F0.000.0025.7 F0.000.0025.8 F0.000.0026.5 F0.000.0026.6 F0.000.0027.4 F0.000.0027.5	

F0.000.0027.6

The combination frames have to be ordered separately

aluminum

Combination frame 3-fold

Type

Repeater, 2-level



This repeater receives EnOcean telegrams and sends these as they are with maximum transmitting power, either in 1 or 2-level operation. This amplifies the radio signal twice at the maximum and enhances the radio range significantly.

Repeater	F0.000.0024.5
Power supply: Rated voltage	230 V AC
Installation	in-wall outlet box or surface mount
Installation option	fixing clip for a standard 60mm outlet socket
Dimensions (height/width/installation depth)	48/50/35 mm

Part No.

gesis® installation column

The design makes all the difference

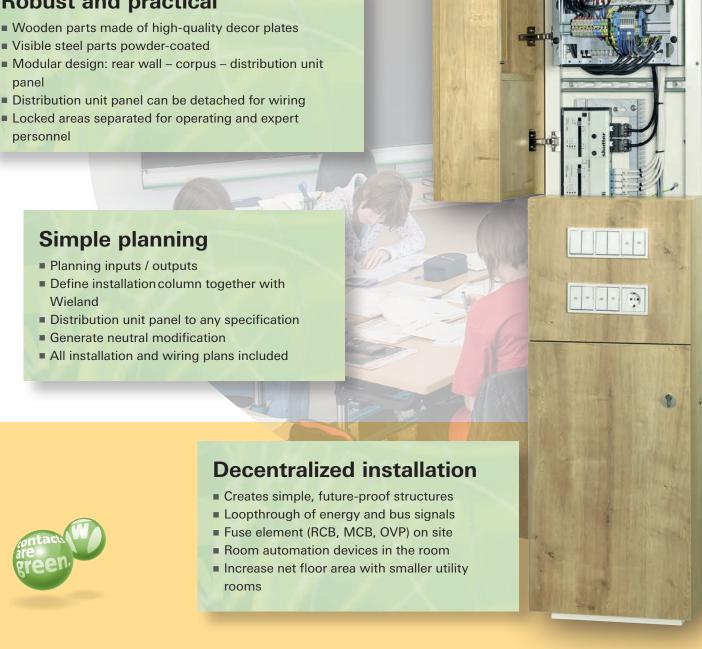
Wide range of variants

- Decors and colors matching your furnishings
- Dimensions to suit your requirements
- Front fixtures to any specification
- Wood and steel corpus available

Robust and practical

- Wooden parts made of high-quality decor plates
- Modular design: rear wall corpus distribution unit
- Locked areas separated for operating and expert personnel





Quick installation

- Prepared and ready for connection
- Pluggable outputs possible
- Mounted with a few screws
- Arrives at the building site individually tested
- Connect supplies and plug outputs

Ideal construction process

- Short installation time by high degree of prefabrication
- Preinstallation of the cables
- Prefabricate column and carry out system integration
- Mount with a few screws
- Connect supplies and plug outputs

Secure the future

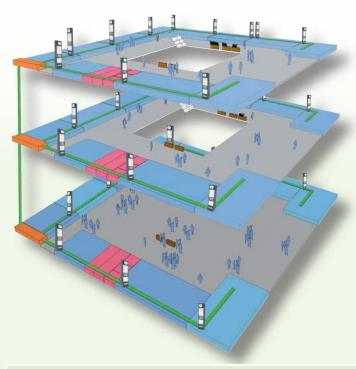
- Standardized system (KNX, EnOcean, DALI, SMI)
- Space reserved for retrofitting
- Simple repairs (particularly with the wood variant)
- Floor/ceiling connection in the rear wall

Our service

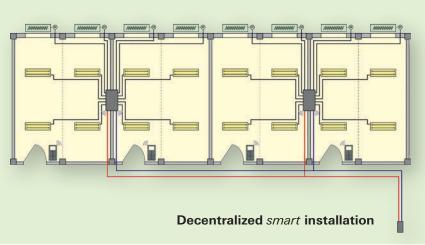
- Support with planning of the room automation and the installation column
- Prefabrication and delivery according to schedule
- All installation and distribution plans included

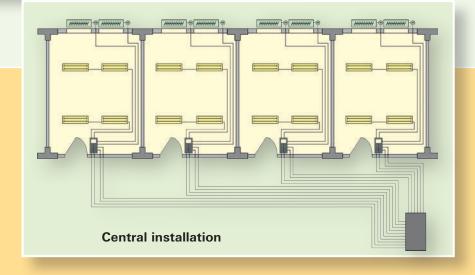
Decentralized installation

School with installation column



- Horizontal main supply as standard
- Vertical main supply with two lines per floor
 - the main fuses and the bus system devices remain in the main distribution unit
- minimizes space required for the utility rooms
- Room automation is placed directly in the room









Reference Max Planck Secondary School Munich

Project: Max Planck Secondary School,

Munich

Tasks: Decentralized building automation

with installation columns within the scope of renovation measures to increase energy efficiency among

other things.

The school building was renovated regarding energy efficiency. Only school holidays were available to do that. The installation column was completely preassembled delivered and thus made it possible to finish the renovation within the 6 weeks of summer holidays.

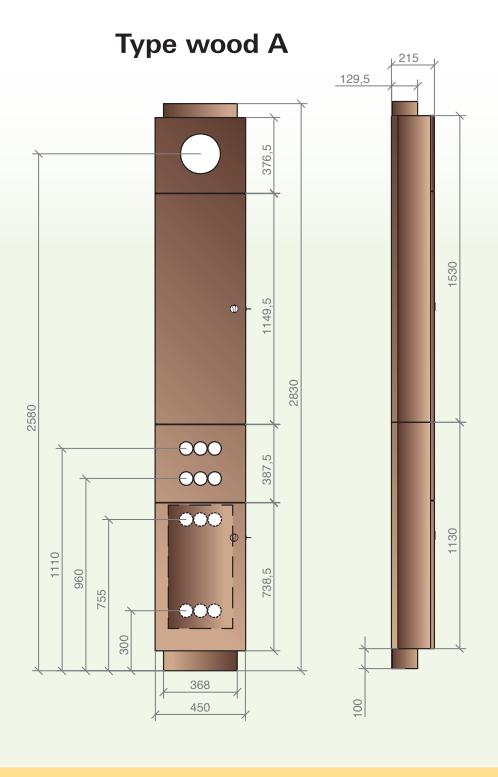
The following devices are used:

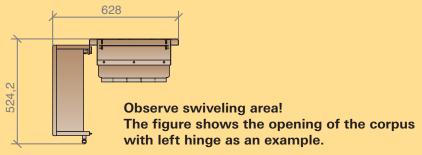
- installation column according to customer requirements fitted with:
 - FI/LS for all connections in the room
 - overvoltage protection
 - $\textit{gesis}\,^{\text{@}}\textsc{EIB}$ RM for sunblinds and lighting
 - **gesis**® EIB RM for coupling of pushbuttons
 - loudspeakers, etc.
- occupancy sensors for constant light control

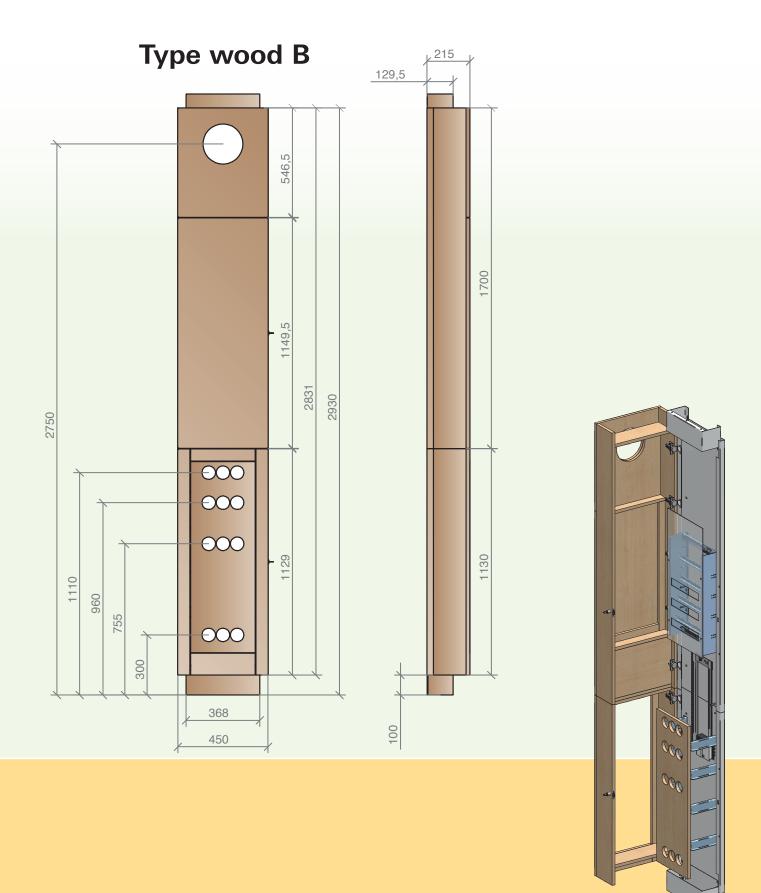




Columns with wooden corpus

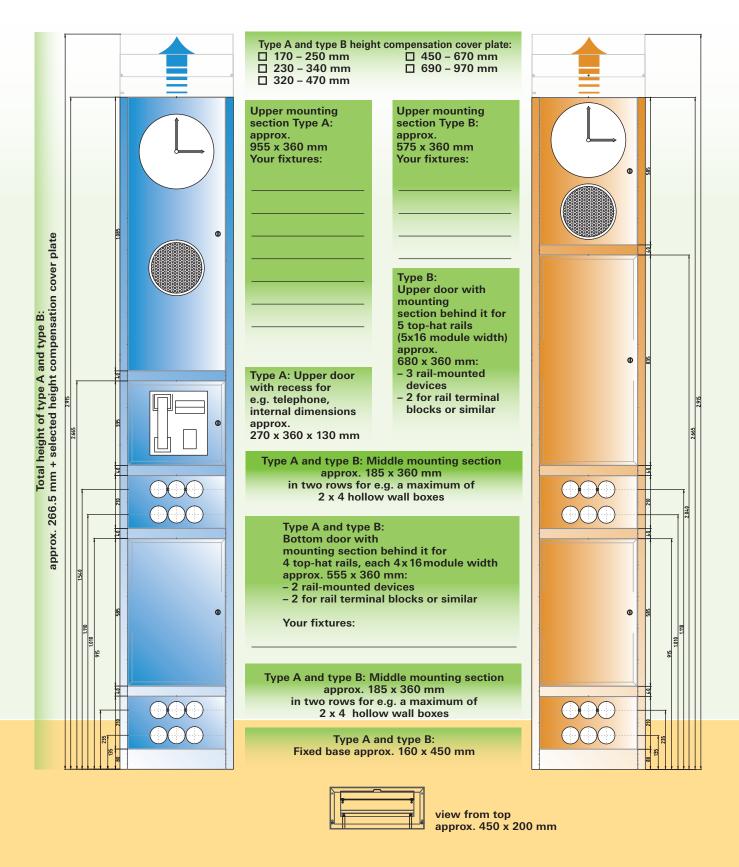






We offer columns that differ from these two standard models. Please coordinate with your Wieland sales representative before ordering.

Standard column steel



Using our configuration aid you can quickly and safely query a calculation for your applications and send it to us. You will receive a first draft of the installation column according to the information given, which will then be refined together with you in further steps.

Configuration aid

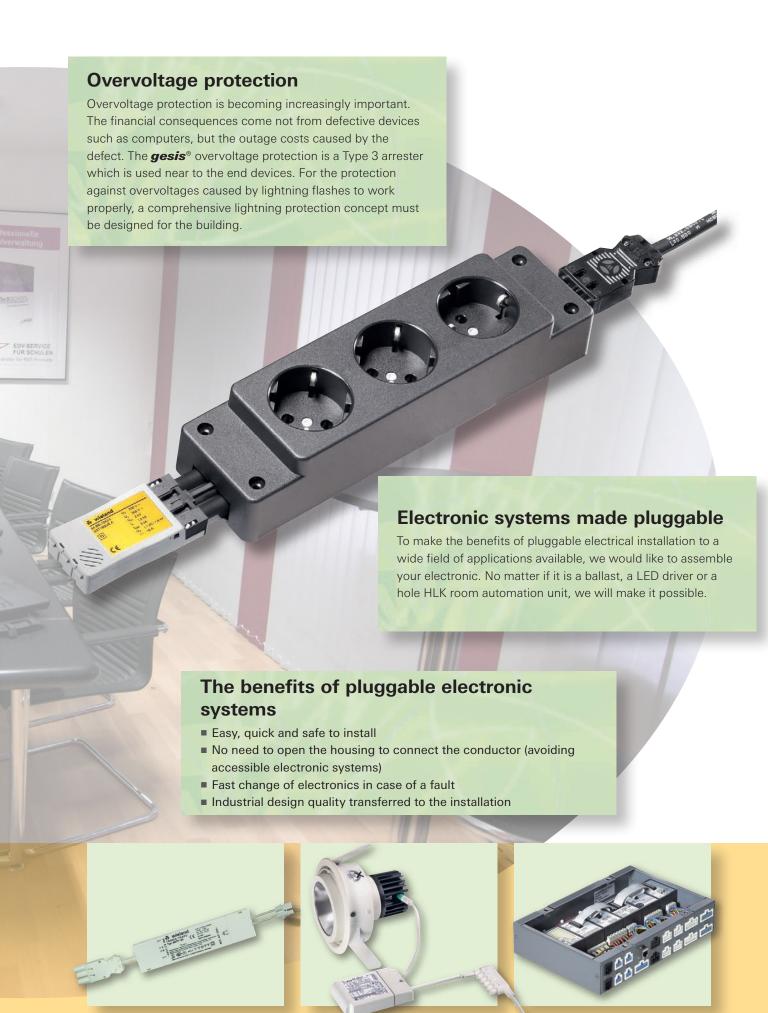
Create your column from four strong types

■ Wood decors Installation column (housing) ■ Steel colors (similar RAL)	Oak, natural Maple, honey Concrete, light More than 300 further decors on request cream white (RAL 9001) (RAL 7035) (RAL 9011) Other colors on request
Installation column (housing) Door hinges wood / steel	left: right:
■ Corpus wood hinge	left: right:
Electrical connections (from roor	·
■ Power / bus signal Incoming supply Distribution	Power 1-pole Power 3-pole Cross-section Bus signal
Protective devices	
Main switch Residual current circuit breaker (40 A Line circuit breaker (type B)	10 A 16 A
■ Overvoltage protection	Network, type 2: Network, type 3: Bus:
Building automation KNX ■ Number of binary inputs	floating radio (EnOcean)
■ Lighting Type of lighting control Number of groups	switched DALI 1 – 10V 0 – 230V AC (RLC)
■ Sunblind / blackout Type of control Number and groups	AC DC
■ Heating control Type of regulation Number of outputs Voltage used	2-point fan coil
Other	
■ Fixtures e.g. power supply units, system composor for bus topology	onents,
■ Amount (we will assume you need 10 pieces if this is left blank)	
Project name: Amount/desired delivery date:	
Company: Contact person:	
Street/number:	
Postal code/city:	
Telephone/e-mail:	
More information online, by e-ma We offer colum	d via fax: +49 951 93 26-996 or e-mail il at bit.ts@wieland-electric.com, by telephone: +49 951 93 24-996 nns that differ from these four standard models. ith your Wieland sales representative before ordering.



Presence detector on DALI base

Digital Addressable Lighting Interface, DALI for short, is the standard in lighting control. Besides 230V, two conductors are laid for controlling electronic ballasts for fluorescent lamps, LED ballast sand other applications. These are normally laid together with the power supply lines in one conductor. DALI is a conventional master/slave system. It controls and regulates, in dependence of brightness and motion, up to 64 DALI ballasts in three separate groups.



Classrooms as an example

Requirements

The lighting in classrooms has to be controlled in dependence of brightness and presence. The various elements of natural light between window side and corridor side must be noted and the light strips at various levels considered. The lighting must be activated by a fully-automated mechanism if required. The lighting levels are to be changed or switched on by force as and when necessary. In large rooms, where the range of one presence detector is inadequate, a second detector has to be used as a slave to the 1st detector.

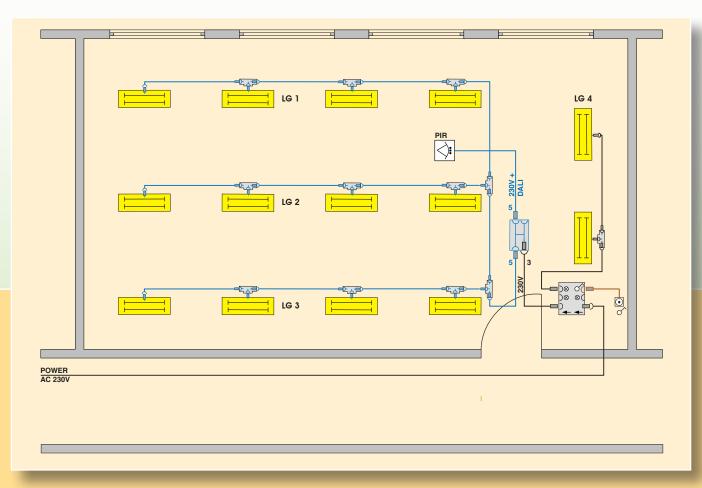
Realization

The DALI presence detector performs this task par excellence. As the DALI master, it can control up to 64 DALI ballasts in four groups. Three of these groups can be dimmed and one group, for the blackboard lighting, can be switched. Various offsets can be specified for the three dimming groups. As a result, the window side can be dimmed more than the corridor side when there is enough

exterior light. The installation location of the sensor serves as a reference point. The lighting can be controlled manually via the remote at any time. If the sensor detection range is not adequate, another detector is quickly integrated into the pluggable installation as the slave. Just like the master sensor and the lights, it is simply integrated into the DALI line in parallel.

Used automation devices:

- 1 x DALI presence detector
- 1 x power supply GST18i5 socket in pastel blue for the local connection (in this case, only N, L and PE are connected).
- 1 x distributor with 1 E/3A GST18i5 pastel blue
- Depending on the number of lights, T-pieces GST18i5 pastel blue
- Pre-assembled conductors GST18i5, pastel blue in various lengths
- Lights with GST18i5 pastel blue connection



DALI presence detector, master



Std. pack Part no gesis P CLS-DALI-31 83.020.0115.1

The DALI presence detector master is a DALI-based multi sensor (PIR) to control three lighting zones. In daylight-controlled mode the groups are dimmed with an adjustable offset to the reference zone. The connected 64 DALI-ballasts can be assigned to any of the zones. The extensive parameter settings like time delays or sensitivity can be commissioned with the suitable remote control. The lighting can be controlled via an IR remote control or automatically. All electrical connections are pluggable and provided with a pre-assembled 0.5m cable.

230V/16A 50Hz Infeed GST18i5, pastel blue, male connector on the detector

DALI output 64 DALI ballasts unit connected

Slaves as required connected (parallel to DALI EVGS) GST18i5, pastel blue, male connector on the detector Plug system together with the power supply system in a connector Ceiling mounting

Mounting 2.4 - 3m

circular opening Mounting opening

Detection range Dimensions 8-12m, depending on mounting height, round visible cover

Height 5mm, Ø 95mm, Depth Ø 90mm, Housings Connection cable

Accessories

Slave detector gesis P CLX-DALI-31 - 83.020.0116.1 for huge areas 83.020.0122.1 (optional) 83.020.0122.0 (necessary) IR remote control

IR remote control commissioning as required from the product series GST18i5, pastel blue Plug system

DALI presence detector, slave



Std. pack Part no. gesis P MS-DALI-SL 83.020.0116.1

The DALI presence detector slave is a DALI-based multi sensor (PIR) to increase the detection area of a DALI presence detector master (gesis P CLS-DALI-31). He is installed to the DALI system in parallel to the master. All electrical connections are pluggable and provided with a pre-assembled 0.5m cable.

Infeed Plua system

DALI output

Plug system

Mounting Height

Mounting opening

Detection range **Dimensions**

visible cover

Housings Connection cable

Accessories DALI master

IR remote control IR remote control commissioning

from the DALI master

GST18i5, pastel blue, male connector on the detector

only presence report to the master

GST18i5, pastel blue, male connector on the detector together with the power supply system in a connector

Ceiling mounting 2.4 - 3m

circular opening 8-12m, depending on mounting height, round

Height 5mm, Ø 95mm, Depth Ø 90mm,

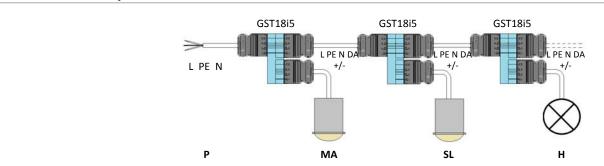
0.5 m

gesis P CLS-DALI-31 - 83.020.0116.1 (necessary)

83.020.0122.1 (optional) 83.020.0122.0 (necessary)

as required from the product series GST18i5, pastel blue

DALI detector, further information



	Function	Input/output	
		Function Type	male
			GST18 Code2
Р	Infeed	Only 230 V	5-pole pastel blue
MA	Master	230 V DALI	
SL	Slave		
Н	DALI luminaire		
	MA SL	P Infeed MA Master SL Slave	Function Type P Infeed Only 230 V MA Master SL Slave 230 V DALI

Power supply system:

Power is supplied to the system via a female connector, GST18i5, pastel blue, to which only L, N and PE is connected. The DALI signal is supplied from the master to the DALI installation.

The through-wiring is completely 5-pole. All stations and detectors are connected in parallel.

Switching presence detector



Master

switching with direct luminaire connection (MAa)

gesis P MS8-360-1L 83.020.0110.1

for connection to a switching distributor (MAb)

gesis P MS8-360-1Lb 83.020.0110.2 92.030.0153.1 Accessories switching distributor (SV)

for connection of a slave

gesis P MS8-360-1LSL 83.020.0110.3

The switching presence detector master is a multi sensor (PIR) to control one lighting group. The lighting group can be controlled by an IR remote control or automatically. The supply is realized via a connection cable with black GST18i3 male plug. Depending on the application the output is provided with a different type of connector, see table below.

Std. pack Part no.

with direct luminaire connection (SLag) gesis P MS8-360-SLb

83.020.0111.1

for connecting further slaves (SLSL) gesis P MS8-360-SLSL

83.020.0112.1

The slave reports, with adjustable sensitivity, the master only the presence of persons. The decision and execution of the switching action takes place in the master. Depending on the application the output is provided with a different type of connector, see table below.

Infeed

Output

10A ohmic load

Switching current Switching load

max, 140 μF (165A/20ms)

Mounting

Heiaht

Ceiling mounting,

Mounting opening

2.4 - 3m circular opening Ø 85mm / max 30mm ceiling thickness

Detection range

8-12m, depending on mounting height, round

Dimensions visible cover

Height 5mm, Ø 95mm,

Housings

Depth Ø 90mm,

Connection cable

0.5 m

Accessories

IR remote control

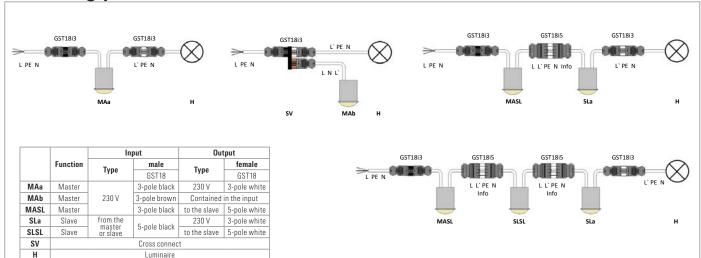
83.020.0122.1 (optional) 83.020.0122.0 (necessary)

IR remote control commissioning Plug system

as required from the product series GST18i5, pastel blue

230V/16A 50Hz, GST18i3, black, male connector on the detector

Switching presence detector, further information



IR transmitter for commissioning and operating the presence and motion detector



Commissioning gesis PIR IR B-21 IPD 83.020.0122.0

This remote control is required for setting the presence detector functions, e.g. delay times, lighting levels or the assignment of DALI groups. It can be used for any number of detectors.

IR transmitter for operation



Std. pack Part no. Operation gesis PIR IR B-04 IPD 83.020.0122.1

This remote control permits the user to operate the assigned presence or movement detectors, and hence temporarily change the dimming value, for example.

gesis® overvoltage protection Type 3



Type	Stu. pack	i di tiilo.
Optical defect indicator Acoustic defect indicator	1	84.990.1242.0 84.990.1243.0
Connectors Worker classification Ue Max. fusing Ambient temperature	Type 3 Class 3 255 V / 16 A gl.	3, Code 1, black according to EN 61643-11+A11 according to IEC 61643-1 50 Hz /gG (B 16 A) +40° C

Service plug, 3-pole, signal light 230 V



Туре	Std. pack	Part no.
GST18I3 S 1H SW	1	92.002.5153.1

The service plug from the product line GST1i3, Code 1, white can be used for function test of e.g. switching outputs from the **gesis**® ELECTRONIC product range. It is equipped with a red 230V signal light connected to N and L to signal the pending voltage. It must not be used to determine the absence of voltage

Display red glow lamp (between N and L)
Voltage 230 V AC
Connectors 3-pole, GST18i3, Code1, white

Application function test, not be used to determine the absence of

voltac

Service plug, 4-pole, 2 signal lights 230 V



Type	Std. pack	Part no.
GST18I4 S 2H SW	1	92.002.5253.1

The service plug from the product line GST18i4, Code 1, black can be used for function test of e.g. shutter outputs from the **gesis**®ELECTRONIC product range. He is equipped with a red and a green 230V signal light connected to pin 1 and N (green) and pin 2 and N (red) to signal the pending voltage. It must not be used to determine the absence of voltage.

Display two glow lamps

green glow lamp (between pin 1 and N) red glow lamp (between pin 2 and N)

Voltage 230 V AC

Connectors 4-pole, GST18i4, Code1, black

Application function test, not be used to determine the absence of

voltage

Service plug, 5-pole, 1 signal light 230V



Type	Std. pack	Part no.
GST18I5 S 1H PB	1	92.002.5353.0

The service plug from the product line GST1i5, Code 2, pastel blue can be used for function test of e.g. DALI or 1-10V signal dimming outputs from the **gesis**® ELECTRONIC product range. It is equipped with a red 230V signal light connected to N and L to signal the pending voltage. It must not be used to determine the absence of voltage.

Display red glow lamp (between L and N)

Voltage 230 V AC

Connectors 5-pole, GST18i5, Code 2, pastel blue

Application function test, not be used to determine the absence of

voltage

Service plug, 5-pole, 4 push buttons 50 V



Type	Std. Pack	Part No.
GST15I5 S 4S I B	1	91 002 5453 0

The service plug from the product line GST15i5, Code 3, light blue can be used for function test of e.g. 24VDC binary inputs from the \textit{gesis}^* ELECTRONIC product range. It is equipped with four normally open push buttons connected to the common pin 5 and the pins 1/2/3/4. The button can only be used for voltages <50 V (SELV FELV).

Button fou

contact type Normally open contact assignment common PIN 5 to PIN 1/2/3/4 Voltage <50V (SELV, FELV)

Connectors 5-pole, GST15i5, Code 3, light blue

Application function test, simulation from potential-free contacts

With *gesis*® pre-assembled electronic



Electronic transformer

Primary side mains voltage, secundary side low voltage (SELV)

Power supply system with GST18i3 Lighting side with ST16 2-pole low voltage



Presence detector

both sides are driving mains voltage Power supply system GST18i3 male connector

Lighting side with GST18i3 female connector

Downlight

Primary side mains voltage, secundary side low voltage (SELV)

Power supply system with $\textit{gesis}^{\text{@}}\text{MICRO}$ code 1, white, for 230 V

Lighting side with *gesis*®MICRO code 2, light blue, up to50 V



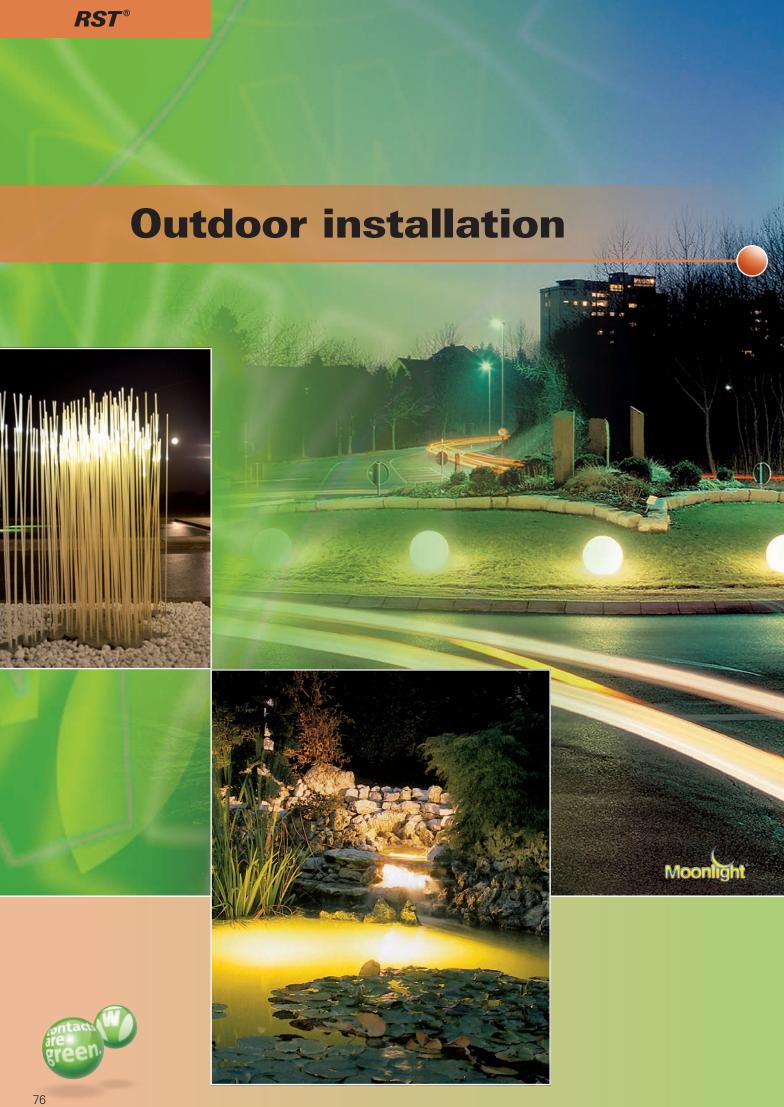
Room automation device installed in $\textit{gesis}^{\$} \text{RAN IP 54}$

Connection with \textit{RST}° plug connectors for preserving the high class of protection



Room automation device installed in *gesis*®RAN IP 20

Connection with *gesis*[®] connectors from various product series



RST[®] – plug & play outdoors Water-tight electronics.

■ The challenge

Expert operation plays a major role, particularly for electrical installations outdoors. Difficult installation conditions and extreme time pressure often lead to errors, loss of protection and finally to the failure of the system.

■ The solution

As a complete installation system, **RST**® is optimally adapted to these increased requirements. It is very flexible in its application and has proven technology at its disposal. Luminaires can thus be delivered in a preassembled design. They only have to be plugged in on-site. The connectors are also touch-safe when they have not yet been plugged in; they provide a locking device against accidental loosening.

The possibility of connecting almost all customary cable types (including underground cables) as well as the IP 68 and IP 69K protection degree make the **RST**° connector a strong partner for outdoor lighting.

■ Optimization

The system becomes even more versatile with **gesis**® RC **RST**® switching outputs with integrated EnOcean radio technology. The outputs for 230 V can switch 6 A at maximum and can be controlled with standard EnOcean key functions. Two LED drivers from the system family can be connected to each switched output. A transmission frequency of 868.3 MHz and EnOcean radio technology are used.



Benefits of the **RS**T® device series

- Quick IP68 installation with pluggable connections
- Safe installation as devices do not have to be opened to connect them
- Easy installation with pre-assembled devices and cables
- Easy operation due to use of EnOcean radio technology
- Comprehensive as LED drivers are available in the system housing



Common data

IP65, IP66, IP67, IP68 (3 m; 2 h), IP69K Type of protection

all IP protection degrees are only valid for plugged cables or

closed connections

Connector only from the series RST20i2 and RST20i3

Dimensions

high housing 104/162/96 mm flat housing 104/162/58 mm

thermoplastic PA 66 halogen-free Housing

Housing color black

Data/radio technology

Technology using the EnOcean protocol **Radio frequency**

868.3 MHz

Range

- Line-of-sight typically 30 m in corridors, up to 100 m in halls

- Plaster board/wooden walls typically 30 m through max. 5 walls - Brick/gas-aerated concrete walls typically 20 m through max. 3 walls - Reinforced concrete walls/ceilings typically 10 m through max. 1 floor/wall - Considerable limitations in the range (up to the shielding of the radio signal)

All electrically conductive materials (mostly metals) between the transmitter and the receiver or nearby impair the range.

	Switching application EnOcean 4-fold 83.020.0505.0	Switching application EnOcean 1-fold 83.020.0504.0	Switching application EnOcean 1-fold 83.020.0504.1	LED constant voltage supply 12V 83.020.0900.0	LED constant voltage supply 24V 83.020.0901.0	LED constant voltage supply 350 mA 83.020.0902.0	LED constant voltage supply 700mA 83.020.0903.0	Low voltage halogen transformer 83.020.0904.0
Outputs (enOcean controlled)	4	1	1					
Outputs switching in parallel			2					
230 V Through-wiring	1	1		1	1	1	1	1
LED outputs 12 V/12 W				1				
LED outputs 24 V/12 W					1			
LED outputs 350 mA/12 W						1		
LED outputs 700 mA/12 W								
Low voltage halogen output 21V/20-70W								1
RST 20i3 black for power								
RST 20i2 brown for low voltage								
RST 20i2 gray for low voltage								

^{*)} See the product range of the pluggable electrical installation system **gesis**® con



Garden installation with RST®

Requirements

Switching various spotlights in a hotel garden. The individual switching groups are to be controlled via radio as there is only one supply line. Furthermore, trained personnell shall be able to easily modify the system.

Realization

All components are pluggable. The **RST**® connector system is used in order to meet the degree of protection required for electrical safety. The radio outputs are controlled with switches from indoors. To keep them in the same design as the other switches and sockets, multivendor switches and the corresponding design frames are used.

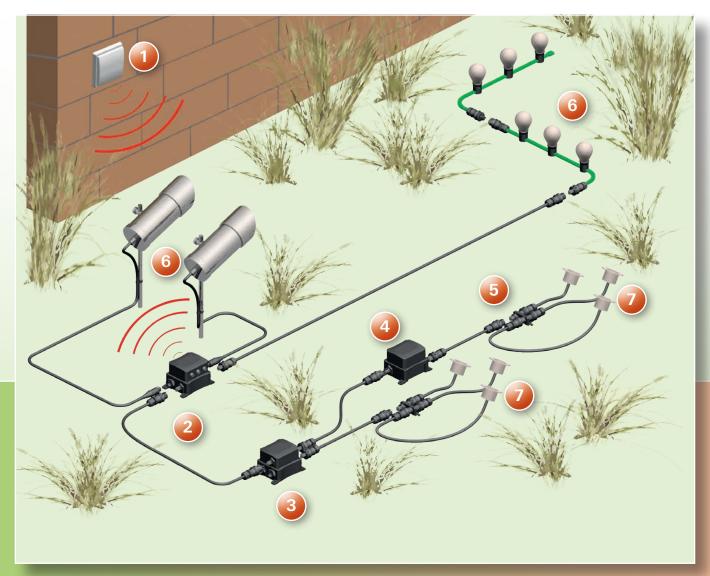
Wieland devices used

2 x push-buttons 4-channel
1 x EnOcean switching application 4-fold
2 LED constant current supply 350 mA
3 LED constant current supply 350 mA
4 LED constant current supply 350 mA
5 Distribution block for series connection
6 Lighting 230 V with RST20i3 connection 230 V

Eighting 230 v with 11312013 confilection 230 v

LED spotlight with RST20i2 connection max. 50 V

The initial connection is made to a female connector for pre-assembly on-site. The connection cables in various lengths are also pre-assembled. Connections not used are closed with covers.



Switching application EnOcean 4-fold



EnOcean 4-fold switching outputs in the IP68 surface housings for outdoor use feature four 230 V relays. They can be programmed for 30 push-button pairs. All electrical connections are pluggable.

Type		Part No.
gesis RC RST-0/4	4 relay outputs, 1 feed-through wiring	83.020.0505.0

Incoming supply:

Installation option

Power input/output 230 V AC / 20 A connector RST 20i3 coding black

Outputs: Quantity connector RST20i3 coding black

Connection type Rated voltage

Switching capacity 6A (max. two of the LED/LV halogen modules

given below)

General data: Type of protection IP68 (all connections plugged or closed)

104/162/96 mm 4 elongated holes

Constant power supply unit, 350 mA DC



Constant power supply unit 350 mA for connecting LEDs. Connections not used have to be closed.

gesis RST PSI 350/12 LED

Dimensions (length/width/height)

83.020.0902.0

Part No.

Part No.

83.020.0903.0

Incoming supply:

Input power (male connector) Output power (female connector) Output LED (female connector)

General data:

Type of protection Ambient temperature Dimensions (length/width/height)

Installation option Electrical connections 104/162/96 mm

230 V AC/20 A RST20i3 poding black

230 V AC/20 A RST20i3 poding black 350 mA DC/max. 12 W RST20i2 poding brown

IP68 (all connections plugged or closed) -25°C to +55°C

4 elongated holes pluggable with RST20i2 ... 20i3

Constant power supply unit, 700 mA DC



Constant power supply unit 700 mA for connecting LEDs. Connections not used have to be closed.

gesis RST PSI 700/12 LED

Incoming supply:

Input Power (male connector)
Output Power (female connector) Output LED (female connector)

General data:

Type of protection Ambient temperature Dimensions (length/width/height)

Installation option Electrical connections 230 V AC/20 A RST20i3 coding black 230 V AC/20 A RST20i3 coding black 700 mA DC/max. 12 W RST20i2 coding brown

IP68 (all connections plugged or closed)

-25°C to +55°C 104/162/96 mm

4 elongated holes pluggable with RST20i2 ... 20i3

Constant voltage supply, 12 V DC



Constant voltage supply unit 12 V for connecting LEDs. Connections not used have to be closed.

gesis RST PSU 12/12 LED

Part No. 83.020.0900.0

Incoming supply:

Input power (male connector) Output power (female connector) Output LED (female connector)

General data:

Type of protection Ambient temperature

Dimensions (length/width/height) Installation option

Electrical connections

230 V AC/20 A RST20i3 coding black 230 V AC/20 A RST20i3 coding black 12V DC/max. 12W RST20i2 coding pebble gray

IP68 (all connections plugged or closed) -25°C to +55°C

104/162/96 mm 4 elongated holes

pluggable with RST20i2 ... 20i3

Constant voltage supply, 24V DC



Constant voltage supply unit 24 V for connecting LEDs. Connections not used have to be closed.

Туре	Part No.
gesis RST PSU 24/12 LED	83.020.0901.0

Incoming supply:

Input power (male connector)
Output power (female connector)
Output LED (female connector)

General data:

Type of protection Ambient temperature Dimensions (length/width/height) Installation option Electrical connections 230 V AC/20 A RST20i3 coding black 230 V AC/20 A RST20i3 coding black 12 V DC/max. 12 W RST20i2 coding pebble gray

IP68 (all connections plugged or closed)
-25°C to +55°C
104/162/96 mm
4 elongated holes

pluggable with RST20i2 ... 20i3

Transformer for low-voltage halogen luminaires, 12 V AC



Power supply unit 12 V for connecting halogen luminaires.

Connections not used have to be closed.

 Type
 Part No.

 gesis RST PSU 12/70 LVH
 83.020.0904.0

Incoming supply:

Input power (male connector)
Output power (female connector)
Output LV halogen (female connector)
Output LV halogen cable length

General data:

Type of protection Ambient temperature Dimensions (length/width/height) Installation option Electrical connections 230 V AC/20 A RST20i3 coding black 230 V AC/20 A RST20i3 coding black 12 V AC/20 – 70 W RST20i2 coding pebble gray max. 2 m

IP68 (all connections plugged or closed) 0°C to +45°C (derating from 35°C) 104/162/96 mm 4 elongated holes pluggable with RST20i2 ... 20i3

Accessories: covers



The covers have to be used to close all unused inputs and outputs. Without these covers, only IP20 is achieved!

Туре	Part No.
Suitable for all RST20i2 and RST20i3 codings	
For male connector captive against loss For male connector not captive against loss	99.416.6205.2 05.564.4453.1
For female connector captive against loss For female connector not captive against loss	99.414.6205.2 Z5.564.4553.1



gesis®

Over 40 years ago, one idea changed electrical installation. These days, this idea is a standard. Functional buildings are easily, quickly and safely installed with the 4 basic pluggable components: connectors, device connectors, pre-assembled cables and distribution blocks.

Features

- Prefabricated components can be plugged in easily in a time-saving manner
- Color and mechanical codings for a variety of applications
- Numerous components for a complete installation
- Many partners fit their products in the factory with GST18®



gesis®MINI

The little brother. Miniaturization is found in electrical installation as well. **gesis**® MINI is up to a third smaller than **gesis**® for comparable technical data and has a similar range of functions.

Features

- Complete and compact installation connector system with tiny dimensions
- The coding concept is similar to GST18[®].
- Universally integrated locks simplify handling and make the connection safe and durable.



gesis®BSt

BST14 is the pluggable standard for building automation with KNX and the extension of the *gesis*® idea to this area of electrical installation.

Features

- Standardized KNX-listed connector interface
- All components for a complete, pluggable installation



RST 20i 2-pole to 5-pole

The RST system serves as safe and durable cabling with increased degree of protection. The types of protection IP65/67, IP68 (3 m; 2 h) and IP69K prevent ingress of e.g. water, dust, oil and soot. The RST system features various codings that are not plug-compatible with each other. This is ideal to keep different applications separate, ensuring correct polarity.

Features

- Quick, safe and easy installation
- Increased degree of protection (IP65/67, IP68 (3 m; 2h) and IP69K)
- Comprehensive distribution unit and accessories program
- Pre-assembled cables save time at the construction site

Facility Management – Simply Plug It. And the Building Installation Is Perfect

gesis® – one name, one idea, an inimitable story of success! With its pluggable electrical installation technology, Wieland Electric has been setting new standards for 40 years. No wonder, since 70% less time and 30% lower costs continue to speak for themselves.

The benefits of the plug-and-play principle are apparent everywhere: No more cutting to length, stripping and threading into terminals: **gesis**® system components are industrially pre-assembled and tested. Everything fits perfectly and only needs to be plugged together on site. **gesis**® is the standard for a safe and error-free installation.

The *gesis*® system includes connectors with preassembled cables and distribution blocks, radio-controlled switchgears, devices for remote building automation and pluggable distribution boxes for modern facility management, cables and flat cables as well as low-voltage systems.

gesis® is the ingenious principle for building installation technology – in high-rise buildings just as in family homes, and from the basement to the roof. The unique variety of over 5,000 components offers solutions for any kind of electrical installation.

A figure of over 5 billion installed contacts to date speaks for itself.

Applications:

- Building installation
- Building automation
- Lighting technology
- Store and exhibition stand construction
- Furniture construction

Features:

- Safe due to color and mechanical coding
- Quick due to pluggable prefabricated components
- Suitable for confined spaces
- Comprehensive, coordinated product range



Information about these products: 0670.1 *gesis*®

Pluggable electrical installation for indoc or at http://eshop.wieland-electric.com

Outputs Outputs Outputs Outputs GST 18i3, coding 1, black GST 18i4, coding 1, black GST 18i4, coding 2, pebble gray GST 18i5, coding 1, black 3-pole connection system 4-pole connection system 4-pole connection system 5-pole connection system 230 V AC 230 V AC 230 V AC 230/400V AC L, PE, N 1, PE, N, 2 1, PE, N, 2 1, 2, PE, N, 3 for example, relay output for example, sunblind ouput AC for example, emergency lighting for example, relay output output gesis EIB V gesis FLEX gesis EIB V gesis EIB V Combination actuator 83.020.0212.x Sunblind output 83.020.0221.x Input 230 V 83.020.0636.x Switching output 83.020.0214.x Switching output 83.020.0225.x Sunblind output 83.020.0222.4 gesis RC Combination actuator 83.020.0212.x 83.020.0500.x Switching output gesis FLEX gesis RC 83.020.0501.x Sunblind output Switching output 83.020.0623.x gesis FLEX Switching output C-load 83.020.0626.0 Sunblind output 83.020.0624.x Sunblind output 83.020.0637.x Male, screw connection Male, screw connection Male, screw connection Male, screw connection 92.932.3053.1 92.944.3053.1 Test plug 92.002.5153.1 Test plug 92.002.5253.1 Test plug 92.944.3553.0 92.954.4053.1 Male - free end Male - free end Male - free end Male - free end 3 x 1.5 H05VV-F (PVC) 4 x 1.5 H05VV-F (PVC) 4 x 1.5 H05VV-F (PVC) 5 x 1.5 H05VV-F (PVC) 92.232.1004.1 92.232.8004.1 92.207.1004.1 92.207.8004.1 92.207.1004.3 92.207.8004.3 92.257.1004.1 92.257.8004.1 1.0 8.0 to 1.0 8.0 to Male - female Male - female Male - female Male - female 3 x 1.5 H05VV-F (PVC) 4 x 1.5 H05VV-F (PVC) 4 x 1.5 H05VV-F (PVC) 5 x 1.5 H05VV-F (PVC) 1.0 8.0 to 92.232.1000.1 1.0 8.0 to 92.207.1000.1 92.257.1000.1 92.207.1000.3 1.0 to 8.0 92.232.8000.1 92.207.8000.1 92.207.8000.3 92.257.8000.1

Outputs Outputs Outputs Outputs GST 18i5, coding 2, pastel blue GST 15i2, code 1, black GST 15i2, code 2, pastel blue GST 15i2, coding 3, light blue 5-pole connection system 2-pole connection system 2-pole connection system 2-pole connection system 230 V AC + signal (FELV) 230 V AC +/- signal (FELV) +/- signal low-voltage L, N, PE, D2, D1 (D=signal) D1, D2 (D=signal) 1, 2 L, N e.g. DALI or SMI output incl. mains e.g. 230 V semiconductor output e.g. DALI output only signal e.g. 24 DC output gesis EIB RM gesis EIB V gesis FLEX gesis EIB RM Semiconductor output 83.020.0631.x Semiconductor output 83.020.0632.x DALI aktor gesis FLEX Switching/dimming output 83.020.0213.x 83.020.0410.0 Sunblind output 83.020.0407.0 gesis FLEX 83.020.0630.0 83.020.0627.x 83.020.0637.x DALI output Sunblind output Sunblind output DC power supply 83.020.0640.x Fan coil extension module 83.020.0639.x Temperature sensor Binary input 83.020.0639.x Male, screw connection Male, screw connection Male, screw connection Male, screw connection only DALI signal but in black 92.954.4453.0 6-7.7mm round 91.922.3053.1 Test plug 92.002.5353.0 3.5 - 6.5mm fl. Ltg. 91.922.2053.1 91.922.3453.0 Test plug 91.922.3353.0 Male - free end Male - free end Male - free end, only DALI signal Male - free end 5 x 1.5 H05VV-F (PVC) 3x1,5 H05VV-F (PVC) Male - female, only DALI signal, 2 x 1.5 H04VV-F (PVC) 2 x 1,5 H04VV-F (PVC) but in black M-f.e: 1.0 M-f.e: 8.0 to 91.222.1004.9 91.222.8004.9 M-F: 1.0 M-F: 8.0 to 92.257.1004.9 91.222.1004.1 92.222.1000.9 91.222.1004.6 1.0 8.0 to 1.0 8.0 to 92.257.8004.9 91.222.8004.1 92.222.8000.9 91.222.8004.6 Male - female, DALI + mains p.supply Male - female Male - female Male - female 5 x 1.5 H05VV-F (PVC) 2 x 1.5 H04VV-F (PVC) 3x1.5 H05VV-F (PVC) PVC: 1.5 mm² H04VV-F halogen free: 1,5 mm² H05Z1Z1-F but in black 1.0 8.0 to 92.257.1000.9 1.0 8.0 to 91.222.1000.1 1.0 8.0 to 92.222.1000.6 0.5 m PVC 99.404.9999.8 0.5 m halogen free 92.257.8000.9 91.222.8000.1 99.405.9999.8 92,222,8000.6

_	Outroute		Louisido
Outputs	Outputs	Outputs	Inputs
GST 15i3, code 1, black	GST 15i3, code 4, brown	GST 15i5, code 1, black	GST 15i2, coding 3, light blue
3-pole connection system 230 V AC L, PE, N for example, relay output	3-pole connection system 230 V AC 1, 2, 3 e.g. valve output	Length m Part No. 5-pole connection system 230/400V AC PE, N, 1, 2, 3 e.g. Fan Coil output	Length m Part No. 2-pole connection system +/- signal low-voltage 1, 2 e.g. binary input Fan Coil
gesis FLEX Fan coil extension module 83.020.0639.x	Fan coil base module 83.020.0638.x Fan coil extension module 83.020.0639.x	gesis FLEX Fan coil base module 83.020.0638.x	gesis FLEX Sunblind output 83.020.0607.0 Fan coil 83.020.0639.0
Male, screw connection but in black	Male, screw connection but in brown	Male, screw connection but in black	Male, screw connection
91.932.3053.1	91.932.3853.0	91.952.4053.1	Test plug 91.922.3353.0
Male - free end 2 x 1,5 H04VV-F (PVC)	Male – free end 3x1,5 H05VV-F (PVC)	Male – free end 5x1,5 H05VV-F (PVC)	Male – free end 2 x 1.5 H04VV-F (PVC)
but in black	but in brown	but in black	
1.0 91.232.1004.1 8.0 to 91.232.8004.1	1.0 91.232.1004.4 8.0 to 91.232.8004.4	1.0 91.257.1004.1 8.0 to 91.257.8004.1	1.0 91.222.1004.6 8.0 to 91.222.8004.6
Male – female 3x1,5 H05VV-F (PVC) but in black	Male – female 3x1,5 H05VV-F (PVC) but in brown	Male – female 5x1,5 H05VV-F (PVC) but in black	Male – female 2 x 1.5 H04VV-F (PVC)
1.0 91.232.1000.1 8.0 to 91.232.8000.1	1.0 91.232.1000.4 91.232.8000.4	1 91.257.1000.1 8,0 ^{to} 91.257.8000.1	1.0 92.222.1000.6 8.0 to 92.222.8000.6

Inputs Infeed Infeed Infeed

1, 2, 3, 4, 5 e.g. binary input L, PE, N e.g. mains connections 1-phase gesis FLEX L, PE, N e.g. mains connections 3-phase 1, 2, PE, N, 3 e.g. mains connections 3-phase gesis EIB V gesis EIB V gesis FLEX	-							
Spole connection system						-		
Section Sect	-		3-pole connection 230 V AC L, PE, N	on system	5-pole connecti 230/400V AC 1, 2, PE, N, 3	on system	2-pole connec +/- signal low- 1, 2	tion system voltage
Test plug 91.952.4353.0 92.831.3053.1 92.853.4053.1 31.221.3353.0 92.853.4053.1 31.221.3353.0 92.853.4053.1 31.221.3353.0 92.853.4053.1 31.221.3353.0 92.853.4053.1 31.221.3353.0 92.257.4003.1 91.221.2353.0 92.257.4003.1 91.221.2353.0 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257.4003.1 92.257	gesis FLEX Input	83.020.0622.0	Combination actuator Switching/dimming outpu Sunblind output Sunblind output Switching output gesis RC Switching output Sunblind output gesis FLEX Base modules Feed modules	at 83.020.0213.4 83.020.0221.4 83.020.0222.4 83.020.0225.4 83.020.0500.x 83.020.0601.x 83.020.0611.x	Combination actuato Switching/dimming out Switching output Sunblind output Switching output gesis FLEX Base modules	out 83.020.0213.0 83.020.0214.0 83.020.0221.0 83.020.0225.0 83.020.0600.x	Sunblind ouput DC Sunblind output DC	83.020.0637.x
Test plug 91.902.4363.0 92.931.3063.1 92.963.4063.1 35-6.5mm ft. Lig. 91.921.3363.0 35-6.5mm ft. Lig. 91.921.2363.0 35-6.5mm f	Male, screw connect	ion	Female, screw conn	nection	Female, screw con	nection	Female, screw co	onnection
3 x 1.5 H05VV-F (PVC) 3x 1.5 H05VV-F (PVC)	Test plug			92.931.3053.1		92.953.4053.1	6-7.7mm round	
1.0 92.232,1004.1 1.0 92.257,1003.1 1.0 91.222,1003.6 8.0 to 92.257,8003.1 8.0 to 92.257,8003.1 8.0 to 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6 91.222,8003.6	Male – free end		Female – free end		Female – free end		Female – free end	d
1.0 92.232.1003.1 8.0 to 92.257.1003.1 8.0 to 92.257.8003.1 1.0 91.222.1003.6 92.257.8003.1 8.0 to 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8003.6 91.222.8000.6 91.222.8000.6 91.222.8000.6 91.222.8000.6 91.222.8000.6 91.222.8000.6 9				/C)		PVC)		
Male – female Male – female 3 x 1.5 H05VV-F (PVC) Male – female 5 x 1.5 H05VV-F (PVC) Male – female 5 x 1.5 H05VV-F (PVC)								
3 x 1.5 H05VV-F (PVC) 5 x 1.5 H05VV-F (PVC) x1,5 H05VV-F (PVC)		on request	1.0 8.0 to		1.0 8.0 to		1.0 8.0 to	
1.0 92.232.1000.1 8.0 to 92.232.8000.1 8.0 to 92.257.8000.1 8.0 to 92.257.8000.1 8.0 to 91.222.8000.6	Male – female			/C)		PVC)		/C)
on request 8.0 to 92.232.8000.1 8.0 to 92.257.8000.1 1.0 to 91.222.1000.6			1.0	92.232.1000.1	1.0	92.257.1000.1		01 222 1000 6
		on request	8.0 10	92.232.8000.1	8.0 10	92.257.8000.1	8.0 to	

Infeed Infeed **Forwarding** Interlock BST 14i2, coding 1, green GST 15i3, code 1, black BST 14i2, code 1, green **GST 18i3 and GST 18i5** Length m Part No. 3-pole connection system 2-pole connection system 2-pole connection system Interlocking for power 230 V AC KNX TP1 (SELV voltage) KNX TP1 (SELV voltage) supply systems for the device series *gesis*® EIB V L, PE, N e.g. KNX power supply system base module e.g. mains supply 1-phase z.B. KNX TP1 forwarding and gesis® RC V as well as flying lead gesis EIB V gesis FLEX gesis FLEX Fan coil base module 83.020.0638.x Combination actuator 83.020.0212.x Base modules 83.020.060x.x Switching/dimming output 83.020.0213.x EnOcean gateway 83.020.0628.x 83.020.0214.0 83.020.0221.x 83.020.0635.x 83.020.0638.x Switching output SMI gateway All plug connections must be Fan coil actuator Sunblind output protected with a interlock against Sunblind output 83.020.0222.4 accidental loosening. For plug Switching output 83.020.0225.x connection series GST18 i3, i4 and gesis FLEX i5 it must be ordered separately. 83.020.060x.x Base modules 83.020.0628.x EnOcean gateway For the series gesis® EIB V and SMI gateway Fan coil actuator 83.020.0635.x gesis® RC V the feeds have to be 83.020.0638.x locked. Female, screw connection Female, spring clamp connection Male, spring clamp connection but in black 91.931.3053.1 93.421.0553.1 93.422.0553.1 Female - free end Male - free end 3x1,5 H05VV-F (PVC) 2x2x0.8 FB-2Y(ST)2Y (PVC) 3x1,5 H05VV-F (PVC) but in black 91.232.1003.1 94.425.1003.7 94.425.1004.7 white 05.587.3156.0 1.0 8.0 to 91.232.8003.1 05.587.3156.1 94.425.8003.7 94.425.8004.7 black Male - female Male - female Male - female 2x2x0.8 FB-2Y(ST)2Y (PVC) 3x1.5 H05VV-F (PVC) 3x1.5 H05VV-F (PVC) but in black 1.0 8.0 to 91.232.1000.1 1.0 8.0 to 94.425.1000.7 1.0 8.0 to 94.425.1000.7 91.232.8000.1 94.425.8000.7 94.425.8000.7

Connector system RST® in IP66/68 (3m; 2h)/69K format for

Infeed Outputs Outputs Accessories



^{*)} Other cables/designs available on request (see also catalog **RST***)

Other products for building installation Mains power devices, overvoltage protection, DIN rail terminal blocks

Signal conditioning for control and our connection technology

Every time current flows and signals are processed, the *interface* products of Wieland Electric reveal their strength. Through the wide range of relays, the components for power supply, and the overvoltage protection units as well as the transfer and analog modules, your application will be a real allrounder as well.

Set the signals with our *interface* technology and innovative DIN rail terminal blocks *fasis* BIT and *selos* BIT.



For more detailed product information:

0800.1 *interface* – catalog Solutions for the control cabinet

0510.0 selos BIT / fasis BIT - catalog
DIN rail terminal blocks
for junction boxes



Protection against overvoltage

wietap systems are overvoltage arresters for voltage and signal coupling which protect electric and electronic systems against high-power overvoltage (e.g. in case of lightning strikes).

Features

- Discharge capacity of up to 100 kA, type 1 to 3
- Modules are pluggable, vibration and shock resistant acc. to EN 60968-2
- Energetically coordinated for all network systems
- Function/defect indication acc. to VDE 0100-534 for each path
- Fuse protection through follow current limitation



Reliable supply of control units

The **wipos** series contains current supplies which have a central function in the control cabinet. Their reliability has an important influence on the availability of machines or processes. Thus, a robust and proven power supply system is essential.

Features

- Number of phases: 1 to 3 phases
- Rated voltage: 0.42 ... 40 A
- Capacity: 100% up to +60 °C
- Series or parallel connection possible
- PFC technology



Network and remote maintenance technology

Our Ethernet switches provide a part of the Ethernet physical layer – no matter whether on a copper or FO basis. Within the automation technology, Ethernet connections are now the standard. The combination of VPN industrial routers (mobile radio or LAN-to-LAN) with the Wie-Service24 VPN Service Portal allows a global and future-proof online remote maintenance.

Features

- Redundant power supply
- Fast Ethernet and Giga Ethernet
- GSM, GPRS, EDGE, HSPA, LTE
- VPN server and routers for a configuration as simple as possible



DIN rail terminal blocks for installation distribution boards

The series *fasis* BIT and *selo* S BIT are especially tailored to the requirements inside distribution boards. No matter whether you choose push-in, tension spring or screw connection – space-saving designs, service-friendly testability features and short installation times are the key characteristics of our BIT terminal blocks. All DIN rail terminal blocks are compliant with the erection rules for power installations and safe power supplies and are designed for use in public buildings.

Features and variants

- Flexible, universal and maintenance-free connections
- Flexible distribution of enery and potential
- Software support, planning and configuration

64.4453.1	81	83.020.0611.1	14	84.990.1243.0	7
453.1	89	83.020.0622.0	15	91.002.5453.0	74
87.3156.0	88	83.020.0622.1	15	91.002.5453.0	87
.3156.1	88	83.020.0623.0	16	91.222.1000.1	85
20.0110.1	72	83.020.0623.1	16	91.222.1000.6	87
20.0110.2	72	83.020.0624.0	17	91.222.1003.6	87
020.0110.3	72	83.020.0624.1	17	91.222.1004.1	85
20.0111.1	72	83.020.0626.0	16	91.222.1004.6	85
020.0112.1	72	83.020.0626.1	16	91.222.1004.6	86
20.0115.1	71	83.020.0627.0	17	91.222.1004.9	85
20.0116.1	71	83.020.0627.1	17	91.222.8000.1	85
)20.0122.0	73	83.020.0628.0	19	91.222.8000.6	87
20.0122.1	73	83.020.0628.0	56	91.222.8003.6	87
0.0212.0	41	83.020.0628.1	19	91.222.8004.1	85
20.0212.4	41	83.020.0628.1	56	91.222.8004.6	85
20.0213.0	41	83.020.0630.0	15	91.222.8004.6	86
20.0213.4	41	83.020.0630.1	15	91.222.8004.9	85
20.0214.0	40	83.020.0631.0	18	91.232.1000.1	86
20.0221.0	40	83.020.0631.1	18	91.232.1000.1	88
020.0221.4	40	83.020.0632.0	18	91.232.1000.4	86
20.0222.4	40	83.020.0632.1	18	91.232.1003.1	88
20.0225.0	40	83.020.0633.0	18	91.232.1004.1	86
20.0225.4	40	83.020.0633.1	18	91.232.1004.4	86
20.0400.3	32	83.020.0634.0	17	91.232.8000.1	86
20.0401.0	32	83.020.0634.1	17	91.232.8000.1	88
20.0401.0	33	83.020.0635.0	19	91.232.8000.4	86
020.0403.0	33	83.020.0635.1	19	91.232.8003.1	88
020.0403.0	34	83.020.0636.0	16		86
	34		16	91.232.8004.1	86
20.0405.0		83.020.0636.1		91.232.8004.4	
	35	83.020.0637.0	17	91.257.0500.2	24
20.0407.0	34	83.020.0637.1	17	91.257.1000.1	86
0.0408.0	33	83.020.0638.0	20	91.257.1004.1	86
20.0408.0	56	83.020.0638.1	20	91.257.8000.1	86
20.0409.0	34	83.020.0639.0	20	91.257.8004.1	86
20.0410.0	35	83.020.0639.1	20	91.921.2353.0	87
20.0411.0	35	83.020.0640.0	21	91.921.3353.0	87
20.0412.0	35	83.020.0640.1	21	91.922.2053.1	85
20.0421.0	32	83.020.0660.0	21	91.922.3053.1	85
0.0500.0	56	83.020.0661.0	21	91.922.3353.0	85
20.0500.2	56	83.020.0662.0	21	91.922.3353.0	86
020.0501.1	56	83.020.0663.0	21	91.922.3453.0	85
20.0501.2	56	83.020.0667.0	22	91.931.3053.1	88
20.0503.0	33	83.020.0900.0	80	91.932.3053.1	86
20.0503.0	57	83.020.0901.0	81	91.932.3853.0	86
20.0505.0	57	83.020.0902.0	80	91.952.4053.1	86
20.0505.0	80	83.020.0903.0	80	91.952.4353.0	87
0.0506.0	57	83.020.0904.0	81	92.002.5153.1	74
0.0600.0	13	83.020.1413.0	46	92.002.5153.1	84
20.0600.1	13	83.020.1414.0	46	92.002.5253.1	74
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0.0610.0	14	83.020.1417.0	47	92.002.5353.0	85
		83.020.1418.1	46	92.021.4050.8	89
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G0.000.0667.3	23
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Z5.524.1910.0	26
Z5.524.2010.0	26
Z5.564.4553.1	81
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- Low-voltage connectors
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- Distribution systems
- Room automation with KNX, ENOcean, SMI and DALI
- DIN rail terminal blocks for electrical installations
- Overvoltage protection

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