



gesis® ELECTRONIC
Decentralized building
installation via plug&play
Catalog 2014









Room automation with Wieland Table of contents

gesis® ELECTRONIC – pluggable energy efficiency Advantages of distributed building automation	4 – 5
gesis® PLAN – 3D for presentation Displaying the design.	6 – 7
<i>gesis</i> ® FLEX Room automation	8 – 19
Installation column The ideal solution for room automation	20 – 25
gesis® KNX Room automation and system devices	26 - 35
gesis® RM Modular devices for flexible and decentralized installation	36 – 43
gesis® EIBM2 Modular devices for clear and sustainable installation	44 – 49
gesis® EIBV Modular devices for convenient integration of EnOcean sensors	50 – 55
gesis® LON Bus system neutral modular devices	56 – 61
gesis® RC Radio-controlled modular devices for independent systems	62 – 71
gesis® RST – plug & play outdoors Electrical installation following the "Lego principle"	72 – 77
gesis® CON – facility management – simply plug it in Perfect building installation	78 – 85
wipos power supply units Pure power. No knick-knack.	86 – 87
wietap The overvoltage protection	88 – 89
Support Index. Hotline.	90 – 95



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



gesis® RC

radio technology without batteries for wireless sensors



gesis® EIBV

flat, pluggable KNX actuators for limited space



gesis® EIBM2

the modular, pluggable KNX system for maximum flexibility on-site



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

Modern 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 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® RM the modular, project-specific system for KNX, LON, and radio



gesis® FLEX the flat, modular KNX system for room automation



Installation column

Room installation and automation in one system





gesis® PLAN - 3D for presentation Displaying the design.

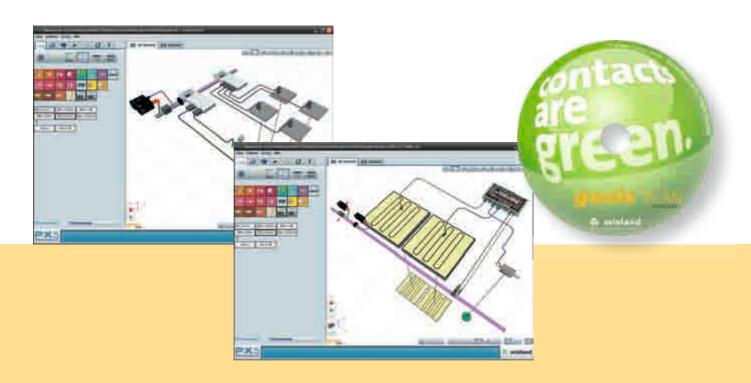
The *gesis* PLAN demonstration and planning software is a tool for conveniently designing and calculating pluggable electrical installations with *gesis*. The software supports specialist planners as well as system integrators, architects and clients in the electrical design of buildings.

The software imports the existing DWG/DXF drawings of the rooms and building parts to be installed. The required consumers, such as lamps, sockets and sunblinds, etc., are placed in the 3D view on the PC, and **gesis** ELECTRONIC components, **gesis** RAN distributor units and **gesis** NRG flat cables are wired with only a few mouse clicks. The recommended connector encoding is automatically taken into account and the compliance with standards is checked. The installation is also calculated in terms of permitted currents, voltage drops or selectivity. Possible problems are immediately indicated by the software. As a result, the planner receives an item list with precisely calculated cable lengths and price details.

The *gesis* PLAN software serves as an efficient planning aid for functional buildings with flexible use of space and facility management, and its usage is not only appropriate for new buildings. For building renovation it supports reliable preliminary planning through exact calculations. Without expert knowledge the user can start right away; software wizards guide him accurately through the various screens.

This uniquely convenient solution does not only take into account electrotechnical installation requirements, but is also capable of simulating spatial conditions due to beams, additional walls and columns, and automatically takes them into account for cabling.

This is the result of many years of experience amassed by Wieland Project Support. It is possible to plan not only individual rooms, but also stories and entire buildings.







gesis®FLEX

The future of room automation. Modular, compact, pluggable.

■ The future

Future-proof systems rely on standards. KNX has proven itself over many years, and it is established and standardized worldwide. The pluggable electrical installation with *gesis* has been used successfully all over the world for the last 25 years and more. The combination of both proven systems prepares any building adequately for the future.

■ Modular

Architects, planners, and contractors must all take account of the conditions relating to a building. The wishes of the owners and the constraints, e.g. due to building size, regulations, location, and ultimately budget, impact on room automation. So it is essential to have automation devices that can also be adapted to these requirements. Fixed-function devices for a room can only satisfy this need to a limited extent; they are either oversized or overburdened. Modular devices where the function is easily modified by adding inputs/outputs can be adapted to requirements at any time. Even after initial installation.

■ Compact

The construction space for electrical installations is becoming increasingly confined. Utility rooms should be as small as possible, cable trays are accepted as a necessary evil, suspended ceilings are continuing to disappear, and these days installation in corridor ceilings is generally not allowed. Wieland Electric can help you out of this predicament. The gesis installation is decentralized. The room automation devices are installed exactly where they are needed, in the rooms, which keeps the distributors small.

gesis FLEX has been designed so it is easy to install in cable support systems without requiring additional construction space.

■ Pluggable

Buildings of whatever type are being erected more and more quickly. This poses a challenge for the electrical installation as well. Prefabrication to the highest possible degree enables rapid, error-free installation and prevents delays in construction. This is made possible with universally pluggable components. A flat cable can be used here with pluggable outgoing adapters for power and bus supply to the areas. The room automation devices are plugged into this, and, in turn, the consumers, such as lamps, are plugged into them. The automation devices have been preprogrammed and tested in advance by the system integrator. The electrical installation for an office is completed in no time and fits perfectly into the construction process.

Advantages of the gesis® FLEX series

- Compactness fits through even the smallest inspection openings into virtually any assembly area
- Modularity enables adjustment to a whole range of requirements
- Pluggability allows for quick and error-free installation thanks to the high degree of prefabrication
- Sustainability KNX combined with modularity will make your installation future-proof



Data for the gesis FLEX series

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

Bus connection:

Inputs/outputs: depends on the extension module Connection type: all electrical connections are pluggable

Number of extensions: up to 6 extension modules

any number of central feed and DIN rail modules System extension: 1 meter maximum, use system-compatible cables Maximum length: 3 m as total across all devices and system extensions

Module dimensions:

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

all except DIN rail

DIN rail housing 80 mm (without protective cover) DIN rail housing 94 mm (with protective cover)

Width (crossways to the top-hat rail)

all except DIN rail 149 mm

DIN rail housing 149 mm (without screw fittings)

173 mm (including screw fittings)

Length (along the top-hat rail)

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

Installation

without top-hat rail on flat surfaces

with top-hat rail TH35

with mounting frame see product part

			83.020.0600.0	83.020.0600.1	83.020.0601.0	83.020.0601.1	83.020.0610.0	83.020.0610.1	83.020.0611.0	83.020.0611.1	83.020.0622.0	83.020.0622.1	83.020.0623.0	83.020.0623.1	83.020.0624.0	83.020.0624.1	83.020.0660.0	83.020.0661.0	83.020.0662.0	83.020.0663.0
		Management of x extension modules	6	6	6	6														
		3-phase mains feed	1	1			1	1												
		1-phase mains feed			1	1			1	1										
		Binary input 12-V SELV									8	8								
Functions		Switching output 230 V 16 A											4	4						
Func		Sunblind output 230 V 8 A													2	2				
		Installation DIN rail 4 module widths*															х	х	х	Х
		Fitting cable diameter 5-9 mm																2		2
		Fitting cable diameter 7-13 mm																1		1
		Hinged lid																	х	Х
	Main su pply	Three-phase, 5-pole (GST18i5 black)	1	1**)			1	1 **)												
	M s	Single-phase, 3-pole (GST18i5 black)			1	1**)			1	1 **)										
~ ¥	KNX	2-pole infeed BST 14i2 green	1	1**)	1	1**)														
ction	Ŋ	2-pole routing BST 14i2 green	1	1	1	1														
Connector /		5-pole (GST15i5 light blue)									2	2**)								
0 8	In-/ Outputs	3-pole (GST18i3 black)											4	4 **)						
	_ = 9	4-pole (GST18i4 black)													2	2**)				
		Screw fittings																4		4
Plug se	t included			Х		Х		Х		Х		Х		Х		Х				





Application example: hotel

Requirements

Hotels often stay open for business while renovations are taking place. To ensure that the process runs smoothly, guestrooms have to be renovated room by room. Ideally, automation devices are integrated decentrally. In the example shown, there are three lighting circuits (two in the room and one in the bathroom) as well as a fan in the bathroom and an exterior sunblind that have to be powered. A hotel card switch registers the presence of a guest and conveys this information to the control system. The basic lighting is turned on from here. Each hotel room requires its own separately fused feed.

Realization

The modular, flat device system *gesis* FLEX is used. The push-buttons and hotel card switch are connected to *gesis* FLEX via a binary input. A sunblind output and a switching output control the sunblinds and lighting. Each hotel room is supplied via a separate supply line from the central distribution unit. One feed involves the base module

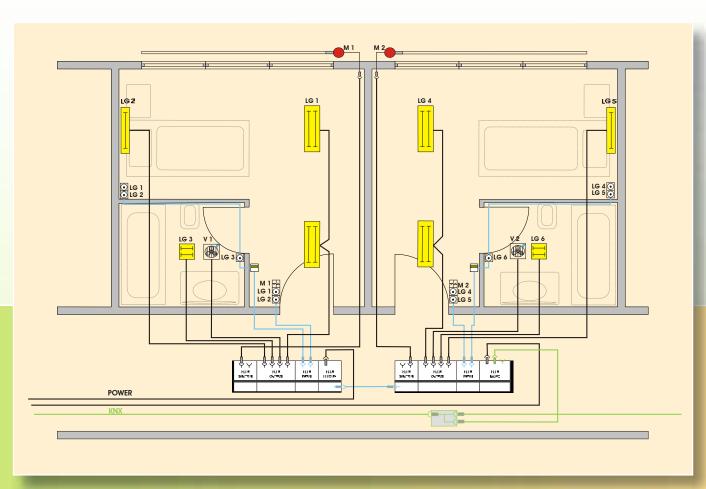
directly; the other runs via the intermediate feed. The two subsystems are connected with a **gesis** FLEX system extension.

Automation devices used:

1 x base module, 1-phase gesis knx flex bas-sp 2 x binary input 8-fold 12 V (SELV) gesis flex 8/0-(12) 2 x binary output 4-fold 230 V 16 A gesis flex 0/4 2 x sunblind output 2-fold 230 V 8 A gesis flex 0/2W 1 x intermediate feed, 1-phase gesis flex MS SP 1 x gesis flex system extension for the internal bus

Connection components used:

- Connector with screw connection for feed
- Pre-assembled cable with plug and open end for connecting the lights and fan
- Pre-assembled cable with plug and socket for connecting the sunblinds
- Pre-assembled cable with plug and open end for connecting the push-buttons



With or without plug set



Without plug set:

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



With plug set:

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

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.



1-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.

KNX base modules 3-phase feed



Type	Std. Pack	Part No.
gesis KNX FLEX-BAS without plug set	10	83.020.0600.0

gesis KNX FLEX-BAS Z

with plug set

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 in the flat surface-mounted housing, which can be fitted on DIN rails for decentralized installation, supports 6 extension modules. They have all the usual 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. For 83.020.0600.1: all necessary plugs are enclosed.

Feed

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

Mains and bus connection to next module Dimensions

width: 117 mm with left cover height: 149 mm incl. plug lock depth: 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

KNX base modules 1-phase feed



Std. Pack Part No. gesis KNX FLEX-BAS SP 83.020.0601.0 10 without plug set

gesis KNX FLEX-BAS SP Z 83.020.0601.1 mains feed 3-pole GST18i3, black with plug set 1 bus feed 2-pole, BST14i2, green

The 1-phase supplied KNX base module with in the flat surface-mounted housing, which can be fitted on DIN rails for decentralized installation, supports 6 extension modules. They have all the usual 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. For 83.020.0601.1: all necessary plugs are enclosed.

Feed

Mains 230 V; 16 A KNX TP1 Bus

Accessories

Mains and bus connection to next module

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

depth: 44 mm without mounting rail

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

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 in the 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 construction. This means that the output loads can be spread over different fuse circuits. It can be integrated into the system as often as required. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation. For 83.020.0610.1: all necessary plugs are enclosed.

Feed

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

Outputs

Mains and bus connection to next module

Dimensions width: 95 mm (mounted)

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

depth: 44 mm without top-hat rail

Installation surface-mounted on TH35 mounting rail, system-

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

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 in the 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 construction. This means that the output loads can be spread over different fuse circuits. It can be integrated into the system as often as required. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation. For 83.020.0611.1: all necessary plugs are enclosed.

Feed Mains

ins 230V; 16A

Bus from preceding module

Outputs

Installation

Accessories

Mains and bus connection to next module

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

depth: 44mm 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

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, in a flat surface-mounted housing (which can be fitted on a DIN rail for decentralized installation) is managed by the base module. It receives mains and bus supply from the upstream module. The parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation. For 83.020.0622.1: all necessary plugs are enclosed.

Feed

Mains and bus connection

Outputs

Mains and bus connection **Inputs**

Dimensions

Dimensions

Installation
Accessories

from preceding module

to next module

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

width: 95 mm mounted (105 mm with left cover)

height: 149 mm incl. plug lock depth: 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

Switching outputs 4-fold



Туре	Std. Pack	Part No.
gesis FLEX-8/0 (12) without plug set	10	83.020.0623.0
gesis FLEX-8/0 (12) Z with plug set		83.020.0623.1 4 outputs 3-pole GST18i3, black



The 4-fold relay output 230 V/16 A in the flat surface-mounted housing, which can be fitted on DIN rails for decentralized installation, is managed by the base module. It receives its mains supply and bus supply from the upstream module. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation. For 83.020.0623.1: all necessary plugs are enclosed.

Feed

Mains and bus connection

Outputs

Installation

Accessories

Relay output

Mains and bus connection

Dimensions

from preceding module

to next module

4, non-isolated 230V/16A

width: 130 mm mounted (140 mm with left cover)

height: 149 mm incl. plug lock

depth: 44mm 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

Sunblind outputs 230 V AC 2-fold



Туре	Std. Pack	Part No.
gesis FLEX-0/2W without plug set	10	83.020.0624.0
gesis FLEX-0/2W Z with plug set	1	83.020.0624.1 2 outputs 4-pole GST18i4, black



The 2-fold shutter output 230 V/8 A in the flat surface-mounted housing, which can be on DIN rails for decentralized installation, is managed by the base module. It receives its mains supply and bus supply from the upstream module. The extensive parameter set enables different automation functions. The manual operation level allows function tests without prior system integration. The electrical connections, which are pluggable in accordance with IEC 61535, separate automation and installation. For 83.020.0624.1: all necessary plugs are enclosed.

Mains and bus connection

to next module

Mains and bus connection

from preceding module

Dimensions

width: 130 mm mounted (140 mm with left cover)

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

Installation

Dimensions

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

Accessories extension modules from the gesis FLEX series

DIN rail system housing for 4 module widths



Туре	Std. Pack	Part No.
gesis FLEX-REG4	1	83.020.0660.0

The DIN rail module is system-compatible with the flat surface-mounted module system for decentralized installation, which can be mounted on a mounting rail. It can accommodate rail-mounted devices according to DIN 43880 with four module widths. From the upstream module, the mains and bus supply is routed to the next module. The mains supply can be tapped internally. Cable entries are to be installed on-site.

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

Feed mains from the preceding module can be tapped

internally

Through-wiring mains and bus routing from preceding module to next

module

width: 130 mm mounted (140 mm with left cover)

height: 140 mm

depth: 80 mm without top-hat rail

Installation surface-mounted on TH35 mounting rail, systemcompatible mounting frame or flat mounting surface DIN rail system housing for 4 module widths with entries



Type	Std. Pack	Part No.
gesis FLEX-REG4 V	1	83.020.0661.0

The DIN rail module is system-compatible with the flat surface-mounted module system for decentralized installation, which can be mounted on a mounting rail. It can accommodate rail-mounted devices according to DIN 43880 with four module widths. From the upstream module, the mains and bus supply is routed to the next module. The mains supply can be tapped internally. The module has four cable entries.

Installation option rail-mounted devices according to DIN 43880

height / width / depth 90 mm (crossways to the mounting rail) / 4 module widths

(72 mm) / open to the top

mains from the preceding module can be tapped

internally

Through-wiring mains and bus routing from preceding module to next

module

for cable diameter 5-9 mm 2x; 7-13 mm 1x Cable entries Dimensions width: 130 mm mounted (140 mm with left cover)

height: approx. 173 mm incl. screw fittings

depth: 80 mm without top-hat rail

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

DIN rail system housing for 4 module widths with hinged lid and screw fittings





1,700		Otali don	1 01111101
gesis FLEX-REG4 D	(lid)	1	83.020.0662.0
gesis FLEX-REG4 DV	(lid and	1	83.020.0663.0
	screw fitting)		

The DIN rail module is system-compatible with the flat surface-mounted module system for decentralized installation, which can be mounted on a mounting rail. It can accommodate railmounted devices according to DIN 43880 with four module widths. From the upstream module, the mains and bus supply is routed to the next module. The mains supply can be tapped internally. The module has a transparent hinged lid to protect the internals as well as different cable entries depending on the model.

Installation option rail-mounted devices according to DIN 43880

height / width / depth 90 mm (crossways to the mounting rail) / 4 module widths (72 mm) / 70 mm

mains from the preceding module can be tapped

Cable entries

Dimensions

internally Through-wiring mains and bus routing from preceding module to next

module

for cable diameter 5-9 mm 2x; 7-13 mm 1x

Hinged lid transparent with lock

width: 130 mm mounted (140 mm with left cover) height: approx. 173 mm incl. screw fittings depth: 94 mm without top-hat rail

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



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

 $\begin{array}{lll} \mbox{Nominal voltage} & 230/400 \mbox{V} \\ \mbox{Nominal current} & 3 \times 16 \mbox{ A} \\ \mbox{Connector system} & \mbox{GST15i5 white} \end{array}$

Installation insert and lock with the **gesis** FLEX modules

System extensions bus



Type Std. Pack Part No.	
Bus extension 0.5 m	

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.

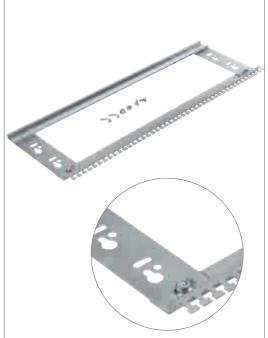
Mains extension

Nominal voltage 50 V Nominal current 10 A

Connector system GST15i5 light blue

Installation insert and lock with the **gesis** FLEX modules

Mounting frame



Type	Std. F	Pack	Part No.
Mounting frame	40 cm	1	Z5.524.1410.0
	50 cm	1	Z5.524.1510.0
	60 cm	1	Z5.524.1610.0
	70 cm	1	Z5.524.1710.0
	80 cm	1	Z5.524.1810.0
	90 cm	1	Z5.524.1910.0
	100 cm	1	Z5.524.2010.0

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

Dimensions

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	Z5.525.1410.0
1	1	1	50	Z5.525.1510.0
1	1	2	60	Z5.525.1610.0
1	1	3	70	Z5.525.1710.0
1	1	4	90	Z5.525.1910.0
1	1	5	100	Z5.525.2010.0
1	2	0	40	Z5.525.1410.0
1	2	1	50	Z5.525.1510.0
1	2	2	70	Z5.525.1710.0
1	2	3	80	Z5.525.1810.0
1	2	4	100	Z5.525.2010.0
1	3	0	50	Z5.525.1510.0
1	3	1	60	Z5.525.1610.0
1	3	2	80	Z5.525.1810.0
1	3	3	90	Z5.525.1910.0
1	4	0	60	Z5.525.1610.0
1	4	1	70	Z5.525.1710.0
1	4	2	90	Z5.525.1910.0
1	5	0	70	Z5.525.1710.0
1	5	1	80	Z5.525.1810.0



fitted, according to customer requirements, with:

- RCCB/CB for all connections in the room
- Overvoltage protection
- gesis EIBRM for sunblinds and lighting
- gesis EIBRM for coupling of push-buttons
- loudspeakers and so on
- Presence detectors for constant light control



Installation column

The ideal solution for room automation

Intelligent and cost-effective installation.

Sophisticated installation not only increases the efficiency of learning, it also saves money.

Sophisticated room automation makes considerable cost savings possible, especially in schools.

Classrooms are empty much of the time: when the students move to other classes, or have the afternoon off, and during the weekend and holidays. During these times the room automation will switch the room to energy-saving mode.

And a cost-intensive complete renovation is not always required; building automation can also be achieved with a limited budget.

Considerable savings potentials.

The study "Energy efficiency with building automation" that was conducted from May 2009 until May 2011 at the University of Applied Sciences Biberach highlighted a considerable savings potential. Depending on the level of automation, savings of up to 35 % of electrical energy and even up to 70 % of heating energy could be realized. And all this with the current inventory! Without structural changes!









Facing new challenges.

A room's electrical installation has to be able to keep up with innovation. Not all that long ago, it was sufficient to have an outlet for the overhead projector and the vacuum cleaner. Today, much more is required. Ethernet connections for PCs, ELA systems for sound equipment, connections for the projector, TV connections, etc.

But do we know what will be required in 10 or 20 years' time? Cable routes, automation, and also installation clearances should be designed in such a way that future design changes can be accommodated in a low-cost and flexible way.

Wieland helps you perform your work effectively, and to all customers' satisfaction. The advantages provided at the initial installation will ensure your participation in any future modifications.

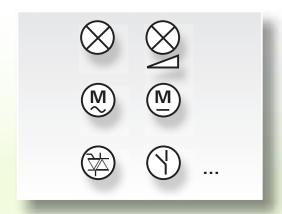
Benefits of the installation column

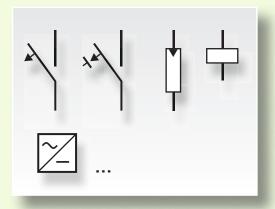
- Design and dimensions definable
- Complete installation space for all electrical installation devices in rooms including floor-ceilingconnection
- Delivery to the building site: pre-assembled and tested
- Short assembly times for building modifications,
 e.g. during school holidays
- Future-proof solution using KNX, LON, and EnOcean

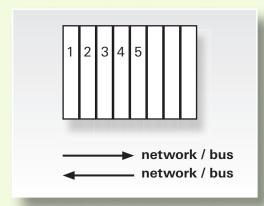
Installation column

gesis® Installation column

Installation and automation in one system







Room automation input/output **gesis®**RM:

- Lighting control (switching, DALI, 1 10 V, RLC dimming)
- Control of blinds (AC, DC)
- Heating control (semiconductor outputs)
- Binary inputs (floating, wireless)

Safety and built-in units:

- Residual current circuit breakers
- Line circuit breakers
- Overvoltage protection
- Power supply units
- and a lot more ...

Supply and distribution:

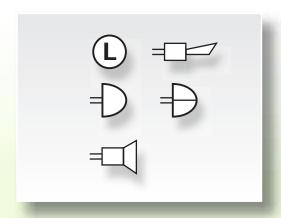
- Network supply
- Bus system supply
- Data supply
- Enough space for installation behind the mounting plate between ceiling and floor





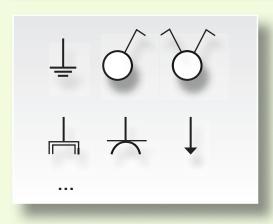
Installation space for:

- Loudspeakers
- Clocks
- Breaktime bell
- Security systems
- Miscellaneous electronics



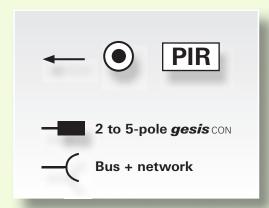
Switches and sockets:

- Hollow wall boxes, wired for
 - Media inputs (e.g. audio, PC)
 - Sockets
 - Switches
- Connection of conventional switches via push-button interfaces or binary inputs
- Switches, sockets, etc. on-site



Connections into the room:

- Lighting
- Blinds
- Push-buttons
- Sensors (e.g. via bus system)
- Pluggable with **gesis** CON
- Can be connected using Wieland DIN rail terminal blocks



Installation column:

Standard column

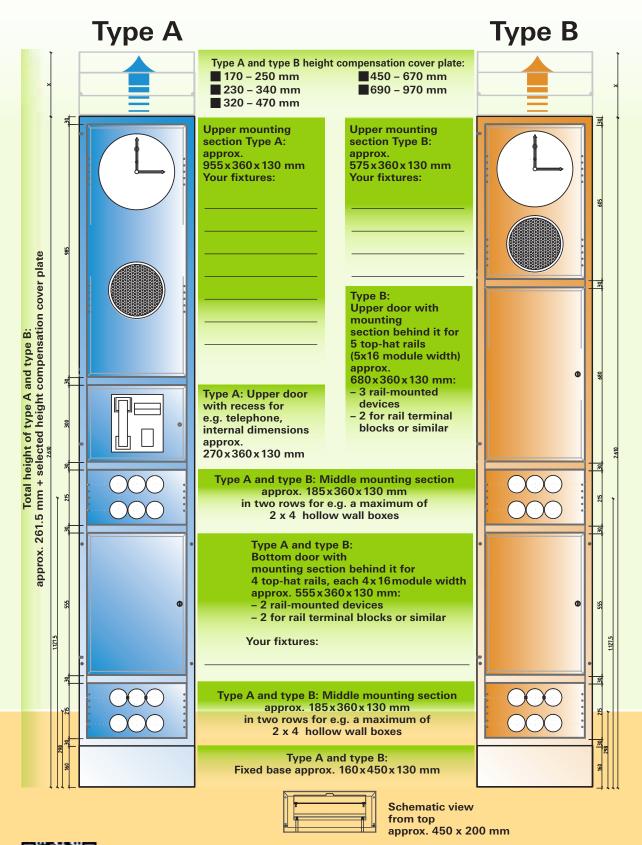
- Two basic models, type A and type B
- Many detail variant models

Columns freely configurable

- Height, width, and depth to almost any specification
- Choice of colors: Cream white, light gray, graphite black, signal black, brilliant blue, white-green, further colors on request
- Interior design to any specification

Standard Column Configuration Aid

Create Your Column From Two Strong Types





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.

Download the Wieland optimization tools from our website, or – even more simple – get the configuration aid sent directly to your smart phone or tablet using the adjacent QR code.

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

Incoming supply Distribution Protective devices Switches or contactors Main switch	NPower 1-pole Power 3-pole Cross-section Bus signal
Switches or contactors Main switch	
Overvoltage protection	Number of poles: 2-pole 4-pole 10 A 16 A Network, type 2: Network, type 3:
Building automation	KNX LON
■ Number of binary inputs	floating radio (EnOcean)
Type of lighting control Number of groups Sunblind / blackout Type of control Number and groups Heating control Type of regulation	switched DALI 1-10V 0-230V AC (RLC) AC DC 2-point continuous fan coil
Number of outputs Voltage used	
Other Fixtures e.g. power supply units, system components, for bus topology 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:	
	c: +49 951 93 26-996 or e-mail .ts@wieland-electric.com, by telephone: +49 951 93 24-996





gesis®KNX

Room automation and system devices

■ System devices

KNX network operation requires power supply units and line/backbone couplers as well as an interface connection to the PC for commissioning, testing or as a link between a PC-based visualization and the KNX network.

■ Motion and presence detection

Power-optimized operation of room automation requires presence and motion detectors. The detectors control or regulate the lighting system and also affect the heating, ventilation and air conditioning control with their presence messages.

■ Lighting control with DALI

The lighting control system DALI with its dimming and error message options is optimally suited to building automation. For this purpose, this sub-system must be linked to the building automation system. In addition to the actuators from the *gesis* RM system the DALI gateway can be used for various connections.

■ Room thermostats and air conditioning

Optimized energy consumption in rooms requires an optimally controlled room climate. This is achieved by a combination of presence detectors and applicable room thermostats that affect the electrothermal valve controls or the corresponding actuators.

■ Integration of conventional push-buttons

Push-buttons are optimally integrated in a costeffective manner using binary inputs. In addition to the binary inputs from the **gesis** EIBM2 and **gesis** EIBRM device series, push-button interfaces can be used as well.

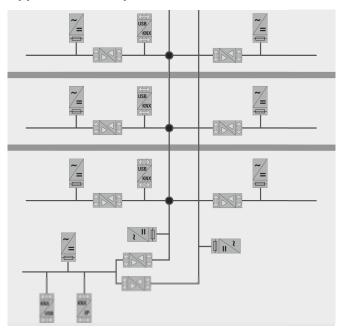


Advantages of decentralized building automation

- Energy optimization with demandbased regulation
- High flexibility with change of use
- Considerably reduced wiring expenses
- Permanently clear cable management
- Small distribution rooms



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.

		0.00.0	132.2	117.3	132.0	132.7	132.8	132.1	132.6	132.3	132.4	132.5	04.0	02.0	0.90	13.0	14.0	15.0	16.0	17.0	18.0
		83.020.1400.0	F0.000.0032.2	F0.000.0017.3	F0.000.0032.0	F0.000.0032.7	F0.000.0032.8	F0.000.0032.1	F0.000.0032.6	F0.000.0032.3	F0.000.0032.4	F0.000.0032.5	83.020.1404.0	83.020.1405.0	83.020.1406.0	83.020.1413.0	83.020.1414.0	83.0201415.0	83.020.1416.0	83.020.1417.0	83.020.1418.0
		83.0	F0.(F0.(F0.(F0.(F0.0	F0.(F0.(F0.(F0.0	F0.0	83.0	83.0	83.0	83.(83.(83.(83.(83.0	83.0
	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																				
	Fan coil room thermostat																				
	Fan coil output																				
ors	Continuous, direct KNX-TP connection																				
ctual	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	4	2	2	2
e of latio	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

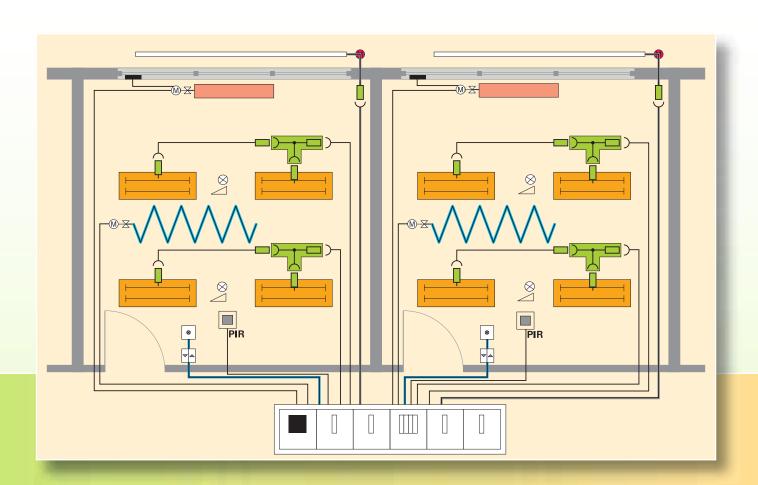
The necessary sensors are installed in each office. The drives for the control valves are connected directly to the KNX. The outputs for the lighting and the sunblinds from the *gesis* EIBRM series are used and installed decentrally with a *gesis* RAN for two offices each.

The following modules are required for that:

2 x room thermostats	gesis KNX RTR SP
2 x presence detectors	gesisKNXPCO
2 x push-button interfaces 6-fold	gesis KNXTA 6/4
4x 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.



Presence detector



Presence detector for installation in the ceiling with integrated bus coupling unit and mixed light measurement with a square detection range (360°). It has two outputs for lighting group control, constant light regulation, or switching, as well as a presence detection output for HVAC control.

Туре	Part No.
gesis KNX P CO	83.020.1400.0
Electrical data:	
Infeed	KNX TP1
Bus coupling unit	integrated
Detection range	horizontally 360°, vertically 120°
Mixed light measurement	10 Lux – 1500 Lux
Maximum detection range	8 m x 8 m (installation height 3.5 m),
	6 m x 6 m (installation height 2.5 m)
Detection range for a seated person	3 m x 3 m (installation height 2 m),
	4.5 m x 4.5 m (installation height 3 m)
Ambient temperature	0°C to +50°C
Mechanical data:	
Installation	in in-wall outlet box 55mm
Dimensions	approx. 103 x 103 mm with a height of 33 mm

Degree of protection

Type

Motion detector



KNX motion detector for installation in the ceiling with integrated bus link for brightness and motion-dependent control of lighting particularly in office and corridor spaces (including constant light regulation with master/ slave function).

1757		
gesis KNX M 331	F0.000.0032.2	
Electrical data:		
Infeed	KNX TP1	
Bus coupling unit	integrated	
Detection range	7 m (installation heig	jht 2.8m)
Light measurement	0 Lux - 700 Lux	
Ambient temperature	-5°C to + 45°C	
Mechanical data:		
Installation	Installation in the ce	iling (including installation frame)
Dimensions	Installation hole	64 mm diameter
	Installation depth	60 mm
	Visible	76 mm diameter /
		5 mm height

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.

Туре	Part No.
DALI Gateway N141	F0.000.0017.3
Electrical data: Infeed – bus/main power supply	KNX TP1 / 110 – 240 V AC/DC max. 7 W
	Terminal block and data rail
	approx. 16V max. 64 DALI EBs
Mechanical data:	approx. To v max. o t bitel 250
Installation	DIN rail mount device for TH35
Width	4 MW (72 mm)

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.

Type	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:

In in-wall outlet box 55 mm or surface mount

Dimensions 80 x 84 mm with a height of 27 mm

Degree of protection IP2

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.

Type	Part No.
gesis KNX TH S	F0.000.0032.1

Electrical data:

Valve stroke detection
Operating temperature

Wechanical data:

KNX TP1
Fully automatic
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 P21Dimensions $82 \times 50 \times 65 \text{ mm}$

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.

Type	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 55 mm or surface mount Dimensions 80 x 84 mm with a height of 27 mm

Degree of protection IP20

Fan coil output 1 – 3 levels



The fan coil actuator for DIN rail mounting with integrated bus coupling unit is used to control fan coil devices with heating/cooling circuits and 3-level fans.
Furthermore this actuator

Furthermore this actuator has two potential-free inputs that can be used for condensate monitoring or for window contacts.

Type	Part No.
gesis KNX FC 1-3	F0.000.0032.8

Electrical data:

Mechanical data:

Installation DIN rail mount device for TH35

Width 4 MW (72 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

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.

Part No.
F0.000.0032.6
24 V 0 – 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

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.

Type Part No.	
gesis TH VA78 F0 000 0032 4	

Mechanical data: Applicable valves

licable 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.

Туре	Part No.
gasia TLLV/ASO	F0.000.0032.5
gesis TH VA80	F0.000.0032.5

Mechanical data:Applicable valvesOnda, Schlösser built after 1992, Oventrop M30 x 1.5,
Heimeier, Herb, Therm-Concept, Frank,
Roth (distribution units), Dinotherm (distribution units)

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

Part No. 83.020.1404.0 gesis KNX TA 2/2

Electrical data:

Infeed KNX TP1

Inputs 2 for potential-free contacts

Scanning voltage 3.3 V / 0.5 mA

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 25 cm, extendable to max. 5 m

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 boxes. This way all switching programs can be integrated into KNX systems. The inputs can be configured as outputs for LEDs.

Part No. gesis KNX TA 4/4 83.020.1405.0

Electrical data:

KNX TP1 Infeed

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.

Part No. gesis KNX TA 6/4 83.020.1406.0

Electrical data:

KNX TP1 Infeed

6 for potential-free contacts Inputs

Scanning voltage 3.3 V / 0.5 mA

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

-5°C to +45°C Operating temperature

Mechanical data: in in-wall outlet box Installation

25cm, extendable to max. 5m 37 x 37 x 10 mm Cable length

Dimensions

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.

Output current

Bus connection

Installation

Width

Mechanical data: Installation

Туре	Part No.
gesis KNX PS160	83.020.1413.0
Electrical data:	
Infeed	120 to 230 V AC
Output voltage	29 V DC SELV

160 mA

integrated

terminal block

4 MW (72 mm)

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.

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 Width 4 MW (72 mm)

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.

Type	Part No.
gesis KNX PS640	83.020.1415.0
Electrical data:	
	0 : 0001/40
	0 to 230 V AC
Output voltage 29	V DC SELV
Output current 64	0 mA
Bus connection ter	minal block
Choke int	egrated
Unchoked voltage on	terminal block
Mechanical data:	

4 MW (72 mm)

DIN rail mount device for TH35

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.

	Туре	Part No.
	gesis KNX USB	83.020.1418.0
n	Electrical data:	
е	Infeed KNX	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	2 MW (36mm)

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 - 24V AC or 12 - 30V 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.

Type	Part No.
TP -	
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

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	Part 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





gesis®RM

Modular devices for flexible and decentralized installation

The *gesis* RM module series enables highly flexible, high-performance and error-free decentralized installations with clearly reduced consumption of switching, sensor and end device cabling.

A maximum of four extension modules can be connected to a base module. The base module and extension module communicate through a flat cable and form one physical address or node. As the module series controls lighting, sunblinds, heating/ventilation/air conditioning devices and provides both radio technology and binary inputs, various requirements can be fulfilled with coherent concepts.

gesis RM is suitable for any bus system. It is possible to select a base module which enables connection to either KNX or LON. This feature provides the highest possible degree of flexibility in planning: the distribution unit's function can be determined at an early stage, while the decision about the bus system does not have to be made until later.

The connector type and quantity can be determined as required thanks to the use of remotely installable distribution boxes, the so-called *gesis* RAN.

Any configurations which may become necessary for the electrical installation system can be integrated quickly and easily, made possible by the convenient knockouts.

■ Optimal commissioning

Easy assembly and pluggability of all electrical connections allow for fast installation without the need for tools. The entire module can be programmed and tested in the room in advance. This creates clear interfaces between system integration and installation and saves a lot of time and cost at the site.







Benefits of the gesis®RM device series

- Modular device arrangement One physical address for various functions
- Low installation height of < 55 mm
- Optimized for decentralized room automation
- Pluggability with *gesis*® CON Simple, error-free installation
- Installation in gesis® RAN to any specification – suitable for any requirement



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 TH 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

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	LON base module 83.020.0300.3	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 230V 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	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/ supply	Auxiliary voltage / supply 230 V	_														
Supply	Auxiliary voltage 12 V RM power supply															
	0.14 - 1.5 mm² solid (inputs)															
Screw terminals	0.14 - 1.0 mm ² solid (inputs)	_	_	_										_	_	
terminais	0.14 - 4.0 mm ² solid															
Antonio	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

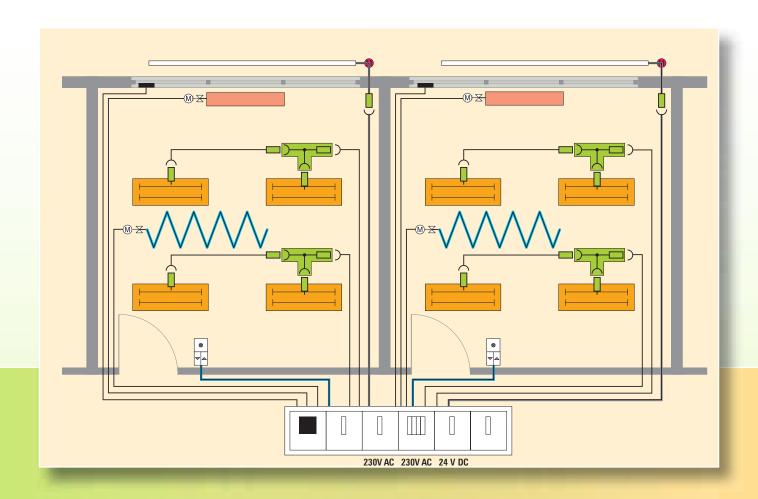
1 x binary input 8-fold

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.

Accessories:

Accessories:

Type

Туре	Part No.
gesis EIB RM2-BAS	83.020.0400.3
Infeed:	
	V DC from gesis RM-PS
	X TP 1
	r slots for flat cables to the

gesis RM-PS

LON RM base module



The LON 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 LON

gesis LON RM2-BAS	83.020.0300.3
Infeed:	
	2V DC from gesis RM-PS ON (FTT 10 A transceiver)
Extension module	, , , , , , , , , , , , , , , , , , , ,
Outputs: Extension module for	our slots for flat cables to the
	ktension modules

gesis RM-PS

Part No.

Power supply unit for one base module



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.

gesis RM-PS	83.020.0401.0	
- 1 I I /	230 V AC	
	12.5V 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 modu and, through it, also the extension modules are supplied with energy.

Туре	Part No.
gesis RM-PS 12/5	83.020.0421.0
Infeed:	
Output:	230 V AC 12.5 V DC SELV / 400 mA for two base modules
	gesis RM-PS 12/5 Infeed: Supply Output:

Extension module binary input 8-fold



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

Scanning voltage 12 V DC SELV, pr Accessories: RM base 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).

Type 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

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. 2.5 m 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.

 Type
 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 230V 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.

83.020.0404.0 gesis RM-0/2W SI

Infeed:

Supply 230 V AC (switching voltage for outputs) from the base module pluggable flat cable on the front panel

Outputs:

Quantity 2, for potential-free change-over contacts with

neutral center position

230 V / 5 AT integrated in the device for the two outputs together Fuse

Accessories: RM base module

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



The 2-fold sunblind output for 24 V 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:

VlaguZ 24V DC (switching voltage for outputs) from the base module pluggable flat cable on the front panel

Outputs:

2, potential-free with pole reversion

Quantity Fuse 5 AT integrated in the device for both outputs together

Rated voltage 6 - 24 V DC

Accessories: 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

Infeed: Supply

230 V AC for supply of the electronic 230 V AC (Switching voltage for outputs) Pluggable flat cable on the front panel

Outputs: Main power supply

from the base module

Accessories:

potential-free contacts for 230 V; 16 A

1 – 10 V, max. 50 mA (passive) Control output

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.

1,400	Tart 140.
gesis RM-0/2D	83.020.0409.0
Infeed:	
Supply from the base module	230 V AC (main supply voltage to be dimmed) pluggable flat cable on the front panel
Outputs:	2

RM base module

0 - 230 V AC, max. 250 V A each R, L, C load (self-recognition)

42

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.

Type 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: RM base module

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

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.

e 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.

ype Part N

gesis 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





gesis® EIB M2

Modular devices for clear and sustainable installation

■ General

The *gesis* EIBM2 device series is a modular KNX device. A maximum of flexibility is achieved through the possibility of connecting several extension modules to a base device. The devices are designed for decentralized installation in suspended ceilings or raised floors without an additional housing.

■ Clear and sustainable installation

The different functions of a base device make room automation very clear. One single physical address is enough for simple installations for one room. This makes integration and installation easy and clear. Often, not all of the six extension modules are used in the initial installation. For modifications, simply add a module and upgrade the software.

■ Cost-effective automation solution

The binary inputs allow for easy integration of inexpensive push-buttons according to the customer's furnishing concept. Together with the outputs for switches, sunblind and switching/dimming, they form one physical address. This saves a considerable amount of system resources. In the following example, the task is to design a concept for 128 offices with a single KNX line with 64 nodes.

■ Optimal commissioning

Easy assembly on a DIN rail and pluggability of all electrical connections allow for fast installation without the need for tools. The entire module can be assembled, programmed and tested in the room in advance. This creates clear interfaces between system integration and installation and saves a lot of time and cost at the site.



Benefits of the *gesis*® EIB M2 device series

- Decentralized installation without additional housing
- Easy installation via snap-on connection to DIN rail
- Quick and error-free installation with pluggable connections
- Optimized devices for use in building with standard office axes
- Interoperability with certified KNX devices



Common data of gesis EIB M2 device series

Dimensions (length/width/height in mm)

Width in the direction of the DIN rail 62 (base module)

31 (daisy-chained extension module)

Height 80 (without connectors)

Depth incl. mounting rail TH 35x7.5 120
Degree of protection IP 20

Housing halogen-free

Housing color light gray similar to RAL7035 Installation technique on TH35 mounting rail

Electrical connections only pluggable

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

Certification KNX-certified

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

			gesis EIB M2 base module 83.020.1020.0	Binary input, 4-fold 230 V AC 83.020.1021.0	Binary input, 4-fold 24 V DC 83.020.1022.0	Power switch, 2-fold 83.020.1023.0	Sunblind output, 2-fold 83.020.1024.0	Switching/dimming output, 1-fold 83.020.1026.0
		Management of x gesis EIB M2 extension modules	6					
		Inputs 230 V AC		4				
		Inputs 24 V DC			4			
	tions	Power switch 230V, no short-circuit protection						
Power switch 230V, no short-circuit protection Parallel sunblind outputs Switching/dimming output 230V / 1 – 10V		Parallel sunblind outputs					2	
							1	
		Phase selection with jumper				Х	Χ	Х
		Firmly assigned phase conductor	L2	L3	L1			
	in supply input	5-pole GST 18i5 black						
	Main supply input	Automatic contacting by daisy-chaining						
*uoi	Bus	2-pole BST 14i2 green						
nect	1	Internal bus, automatic contacting						
Connector/connection*)	Input	4-pole GST 18i4 gray						
ecto	<u>=</u>	5-pole GST 18i5 light blue						
Conn	_	3-pole GST 18i3 black						
	Output	4-pole GST 18i4 black						
		5-pole GST 18i5 pastel blue						

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



Two standard office spaces

Requirements

In an office two lighting circuits and one sunblind circuit shall be controlled via KNX. In order to optimize the costs, conventional switches are to be integrated into the network.

Implementation

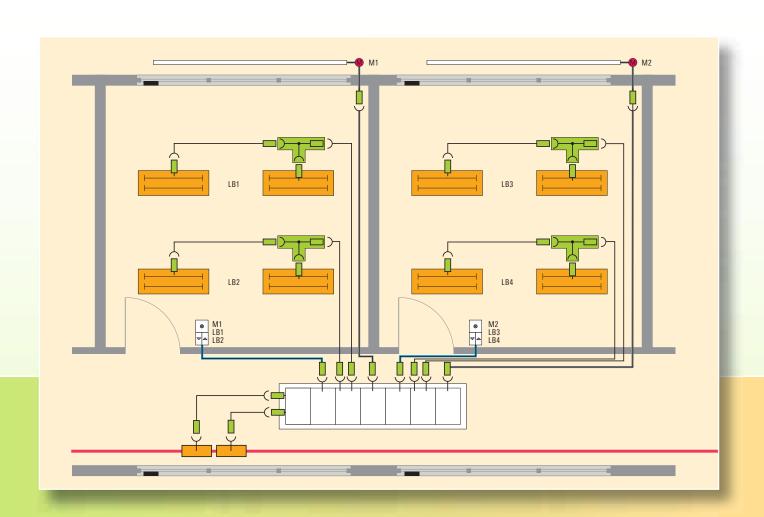
The modular **gesis** EIBM2 device system is used. The switches are connected to **gesis** EIBM2 with a binary input. As six extension modules can be connected to the base module and since only three modules are used for each office, two offices can be managed with one base module.

Automation devices used

1 x base modulegesis EIBM2-BAS2 x binary input 24Vgesis EIBM2-4/0 (24)2 x power switchgesis EIBM2-0/22 x sunblind outputgesis EIBM2-0/1Wx2

Connection components used

- Flat cable 7-pole with adapters, or round cable
- Main power supply 5-pole plus bus 2-pole with distribution blocks at the device inputs
- Extension cable for connecting the lighting
- Extension cable for connecting the sunblinds
- Connection cable for connecting the push-buttons



Base module of the device series



The **gesis** EIBM2 base module manages up to six extension modules from the **gesis** EIBM2 module series. The extension modules are automatically supplied with the internal bus and the power supply voltage when daisy-chained. Regardless of the number of extension modules, the module counts as one physical address.

301100	
Туре	Part No.
gesis EIB M2-BAS	83.020.1020.0
Infeed:	
Main power supply	230/400 V~, 5060 Hz, max. 16 A
Bus	KNX
Output:	internal bus for max. 6 extension modules

the extension modules

Extension module 4-fold input 230 V AC



The 230V binary input can manage four independent potential-free contacts. The scanning voltage of 230VAC is provided by the module.

gesis EIB M2-4/0	83.020.1021.0	
Infeed:	via an upstream base or extension module	
Input data:	via ari upstream base or extension module	
Quantity	4	
Rated voltage	230 V AC, coming from the module	
Cable length	max. 100 m	
Accessories:		
Base module	83.020.1020.0	

Extension module 4-fold input 24V DC



The 24V DC binary input can manage four independent potential-free contacts. The scanning voltage of 24V DC SELV is provided by the module.

1757	1 5.11 1.15
gesis EIB M2-4/0 (24)	83.020.1022.0
Infeed:	via an upstream base or extension module
Input data:	
Quantity	4
Rated voltage	24V DC, coming from the module
Cable length	max. 100 m
Accessories:	
Base module	83.020.1020.0

Part No.

Extension module 2-fold power switch



The 2-fold switching output for high loads has two independently controllable relays. For these relays together the phase conductor used can be defined through a jumper.

gesis EIB M2-0/2	83.020.1023.0
90010 2121112 072	00.020.1020.0
Infeed:	via an upstream base or extension module
Input data:	
Quantity	2
Rated voltage	230 V AC
Switching current	max. 16 A ohmic load, high switching capacity
Accessories:	
Base module	83.020.1020.0

Part No.

Extension module 1 x 2-fold sunblind output



The sunblind output 1 x 2-fold for 230 V DC motors with two directions of rotation has two uncoupled outputs that are controlled in parallel. The phase conductor used can be defined using a jumper.

Type	Part No.
gesis EIBM2-0/1Wx2	83.020.1024.0

Infeed: via an upstream base or extension module

Output data:

 Quantity
 2 parallel uncoupled

 Rated voltage
 230 V AC

 Switching current
 8 A ohmic load

 Accessories:
 83.020.1020.0

Extension module switching/dimming output



The switching/dimming output has a switching and a control output for dynamic EBs with a 1 – 10V interface. The phase conductor used can be defined using a jumper.

 Type
 Part No.

 gesis EIB M2-0/SD
 83.020.1026.0

Infeed: via an upstream base or extension module

Output data:

Quantity

Main power supply 230 V AC; 16 A ohmic load Switching output 1 – 10 V (passive); max. 50 mA

Accessories:

Base module 83.020.1020.0







gesis® EIBV

Modular devices for convenient integration of EnOcean sensors

■ General

The *gesis* EIBV device series can be used without additional housing and features an extremely low profile. The device is decentralized and installed near the load. Devices with the same number of inputs/outputs differ regarding the input for main power supply. Two different versions are available: a three-phase infeed with a 5-pole connector, and a 3-pole single-phase infeed. Potential distribution of ground, N and the switched phase conductor is performed inside the modules.

■ Convenient integration of EnOcean sensors

In many systems, cabling to the sensors, e.g. pushbuttons or window contacts, is not desirable or simply too complicated or not possible. EnOcean technology with its maintentance-free, batteryless sensors offers an ideal solution. The *gesis* EIBV EnOcean gateway offers the opportunity to bring EnOcean telegrams into the world of KNX. First, the gateway is parameterized with the KNX software (ETS). The sensors are assigned without software. The gateway is switched to learning mode and the desired sensor is operated. It is equally simple to delete previous assignments.

■ Installation space becomes more and more limited

Concrete core cooling, air-handling ceilings, cost-saving measures and other requirements are making the installation space in the systems increasingly smaller. With *gesis* EIBV devices, you can manage almost everywhere. Due to their installation height of only 32 mm, the devices fit under cable routes, for example. They can also be inserted into a raised floor through most bottom tanks and can then be conveniently connected thanks to their pluggable connections.



Benefits of the *gesis*® EIBV device series

- Decentralized installation without additional housing
- Flat, space-saving design
- Quick and error-free installation with pluggable connections
- Optimized devices for use in buildings with standard office axes
- Interoperability with certified KNX devices



Common data of the gesis EIB M2 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** con

Certification KNX-certified

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

Range of the EnOcean gateway

The EnOcean gateway indicates with LEDs whether an EnOcean telegramme has been received and helps to determine whether the required senders reach the gateway. If one of the two gateways with external antenna are used, it can be installed in a place with better radio reception, if required. Please observe the information in the chapter on **gesis** RC for range planning.

			83.020.0212.0	83.020.0212.4	83.020.0213.0	83.020.0213.4	83.020.0214.0	83.020.0220.0	83.020.0220.1	83.020.0220.2	83.020.0220.3	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	4	4				4	4
	SLI	Sunblind output	2	2								2	2	2		
	Functions	Internal fuse 5 AT														
	Z	Switching/dimming output 2														
		Radio input						56	56	56	56					
	Main supply input	Three-phase, 5-pole (GST 18i5 black)														
·	Main	Single-phase, 3-pole (GST 18i3 black)														
ctio	KNX	2-pole BST green														
on no	≥.⊑	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														
Ant	tenna lection	SMA socket														

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





Room installation

Requirements for each office

Implementation

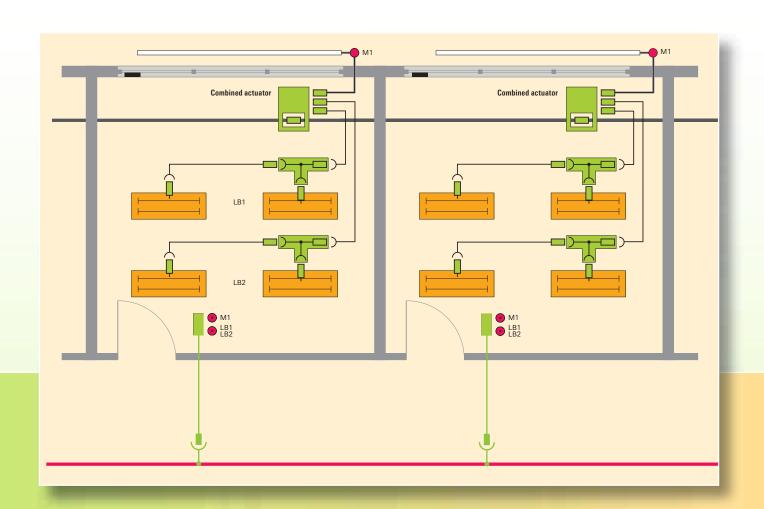
The office systems are installed throughout using a 7-pole flat cable (main power supply and bus) for the window side and a 2-pole flat cable on the door side. The combined actuator is adapted directly on the 5+2-pole flat cable and the push-button interfaces are connected to the 2-pole flat cable using a connection cable.

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



The KNX sunblind output for surface-mount switches two independent sunblind motors. The outputs can be positioned directly. All electrical connections are

gesis EIB V-0/2W B

Three-phase main supply connection (output A1 \rightarrow L1; A2 \rightarrow 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) Internal fuse 5 AT 5 AT for both outputs together

Infeed: Supply/KNX 230/400 V~, 50..60 Hz, max. 16 A; KNX Outputs:

83.020.0221.0

Rated voltage Switching current max. 16A ohmic load

4-fold switching output with increased functionality



The 4-fold KNX switching output for surface mount has four independent switched outputs. All electrical connections are pluggable.

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)

Infeed: Supply/KNX

230/400 V~, 50..60 Hz, max. 16 A; KNX

Outputs: 230 V AC Rated voltage

Switching current max. 16A ohmic load

6-fold switching output



The 6-fold KNX switching output for surface-mount has six independent switchable outputs. Three outputs each are combined in a 5-pole connector. All electrical connections are pluggable.

gesis EIB V-0/6 83 020 0214 0 Three-phase main supply connection (output A1/A4 \rightarrow L1; A2/A5 \rightarrow L2; A3/A6 \rightarrow L3)

Infeed:

Supply/KNX 400 V~, 50..60 Hz,

max. 16A per phase conductor; KNX

Outputs:

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

230 V AC

Rated voltage max. 16A ohmic load Switching current

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



The combined KNX output for surface mount has two switching outputs and one sunblind output. All electrical connections are pluggable.

aesis EIB V-0/2+1W 83.020.0212.0

Three-phase main supply connection

(output A1 \rightarrow L1; A2 \rightarrow L2; A3 \rightarrow L3)

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

Infeed:

Supply/KNX 230/400 V~, 50..60 Hz, max. 16 A; KNX

Outputs:

Rated voltage

max. 16A ohmic load Switching current-switching output A1, A2 Switching current-sunblind output A3 max. 8A ohmic load

2-fold switching/dimming output



The KNX switching/dimming output for surface mount has two independent outputs for controlling dynamic electronic ballasts for lighting control. All electrical connections are pluggable.

Part No.

83.020.0213.0

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

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

Infeed:

Supply/KNX 230/400 V~,50..60 Hz, max. 16 A; KNX

Outputs:

Rated voltage 230 V AC

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

EnOcean-KNX 56-fold gateway with 4 switching outputs



The gateway of the EnOcean radio technology to KNX manages 170 EnOcean telegrams and transfers them to 56 KNX objects. Independently from this, four switching outputs are available. All electrical connections are pluggable

gesis EIB V-56/4 RC

Three-phase main supply connection 83.020.0220.1

gesis EIB V-56/4 RCSP

Single-phase main supply connection

gesis EIB V-56/4 B RC

3-phase main supply/antenna connection

gesis EIB V-56/4 B RCSP Single-phase main

supply/antenna connection

83.020.0220.0

(output A1 \rightarrow L1; A2 \rightarrow L2; A3/A4 \rightarrow L3)

(3-pole)

83.020.0220.2

(output A1 \rightarrow L1; A2 \rightarrow L2; A3/A4 \rightarrow L3)

83.020.0220.3

(3-pole)

Infeed:

Supply/KNX 230/400 V~, 50..60 Hz, max. 16 A; KNX Outputs:

Rated voltage 230 V AC

Switching current max. 16A ohmic load

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.

Antenna

83.020.0503.0

Antenna

- 868.3 MHz antenna

- fastened with magnetic foot

– incl. approx. 2.5 m connection cable and SMA plug



gesis®LON

Modules suitable for any bus system

The *gesis* LON module series enables highly flexible, high-performance and error-free decentralized installations with clearly reduced consumption of switching, sensor and end device cabling.

A maximum of four extension modules can be connected to a base module. The base module and extension module communicate through a flat cable and form one LON node. As the module series controls lighting, sunblinds, heating/ventilation/air conditioning devices and provides both radio technology and binary inputs, various requirements can be fulfilled with coherent concepts.

gesis LON is suitable for any bus system. It is possible to select a base module which enables connection to either KNX or LON. This feature provides the highest possible degree of flexibility in planning: the distribution unit's function can be determined at an early stage, while the decision about the bus system does not have to be made until later.

The connector type and quantity can be determined as required thanks to the use of remotely installable distribution boxes, the so-called *gesis* RAN. Any configurations which may become necessary for the electrical installation system can be integrated quickly and easily, made possible by the convenient knockouts.

■ Optimal commissioning

Easy assembly and pluggability of all electrical connections allow for fast installation without the need for tools. The entire module can be programmed and tested in the room in advance. This creates clear interfaces between system integration and installation and saves a lot of time and cost at the site.



Benefits of the gesis®LON device series

- Modular device arrangement
 one address for various functions
- Low installation height of < 55 mm
- Optimized for decentralized room automation
- Pluggability with gesis® CON simple, error-free installation
- Installation in gesis® RAN to any specification – suitable for any requirement



Common data of the *gesis* LON device series

Dimensions (length/width/height in mm)

Width in the direction

Housing

Software

Housing color

Installation type

of the DIN rail (MW) 49 mm (2.7 MW)

Height 100 mm
Depth incl. mounting rail TH 35x7.5 52 mm
Degree of protection IP00

Due to degree of protection IP00 the devices must be installed inside a

gesis distribution box or a similar housing.

halogen-free

black

on TH 35 mounting rail

In the *gesis* RM system the extension modules are used exclusively in the base module. Information on module combinations not yet available in

the plug-in can be requested from the gesis hotline.

The EnOcean-LON gateway has its own plug-in.

LNS plug-in as well as all other necessary data available at

www.wieland-electric.com

		gesis LON R EnOcean-LON gateway 83.020.0320.0	LON Base module 83.020.0300.3	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 230V 83.020.0404.0	Sunblind output 2-fold 24V 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 modulesn			1	2											
	x slots occupied					1	2	1	1	1	1	1	1	1	1	1
	Binary inputs	_				8	_									
	Radio inputs	170					2 x 8									
s	Switching outputs, 16 A (relay)															
Functions	Sunblind outputs 230 V 5 A								2							
Ē	Sunblind outputs 24 V DC 5A									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 24VDC 0.5 A															4
Voltage																
supply	Auxiliary voltage 12 V RM power supply															
	0.14 — 1.5 mm² solid (inputs)															
Screw	0.14 — 1.0 mm² solid (inputs)															
termina	0.14 – 4.0 mm ² solid															
	0.14 – 2.5 mm² fine stranded															
Antenn connecti	SMA socket															





Renovation of offices with glass partitions – batteryless radio technology – integration into building automation

Offices with glass partitions – batteryless radio technology

Requirements per office axis

- Two switched light circuits
- One sunblind
- Window position sensing
- Cabling to the switches and window contacts not possible

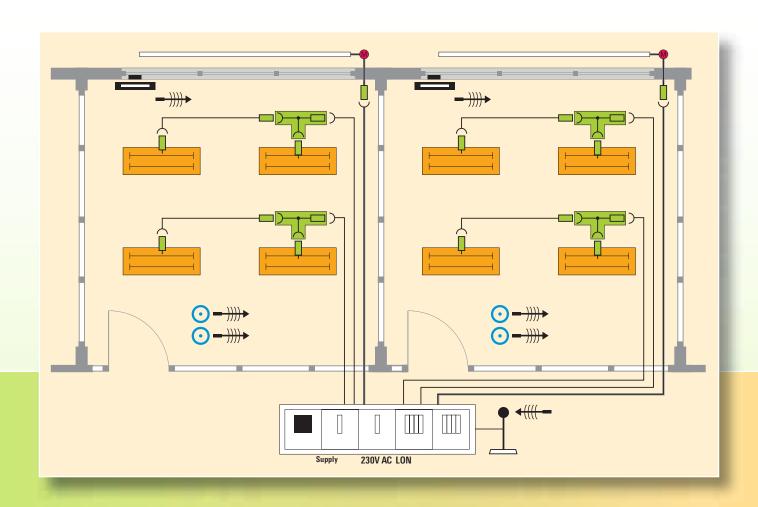
Implementation

The batteryless EnOcean radio technology is used for switches and window contacts. The switching commands and messages are integrated into the LON network using the EnOcean-LON gateway. In this case the gateway can manage more than two offices.

For this purpose a *gesis* RAN is equipped with the following modules:

1 x LON base module	gesis Lon RM2-BAS
1 x power supply unit	gesis RM-PS
1 x switching output 4-fold	gesis RM-0/4
1 x sunblind output 2-fold	gesis RM-0/2W SI
1 x EnOcean – LON gateway	gesis LON R-56/0 (RC)
1 x antenna for radio input	gesis RC Z ANT SMA
Switches from the	gesis RC program
Window contact from the	gesis RC program

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



LON RM base module



The LON RM base module manages up to four extension modules. The extension modules of the **gesis** RM device series 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 LON RM2-BAS	83.020.0300.3
Infeed:	
Supply	12 V DC from gesis RM-PS
Bus	LON (FTT 10 A transceiver)
Outputs:	
Extension modules	four slots for flat cables to the extension modules
Accessories:	gesis RM-PS

Extension modules for the LON RM base module



Use of the same extension modules as with the KNX base module.

See pages 40–43 for these modules.

Type		Part No.
Discouries and O fold	41	02 020 0402 0
Binary input 8-fold	p.41	83.020.0402.0
Radio input EnOcean 2 x 8-fold	p.41	83.020.0408.0
Binary input 4-fold	p.41	83.020.0403.0
Sunblind output 2-fold 230 V AC	p.42	83.020.0404.0
Sunblind output 2-fold 24V DC	p.42	83.020.0407.0
Switching/dimming output, 2-fold	p.42	83.020.0405.0
Universal dimmer 2-fold	p.42	83.020.0409.0
DALI actuator 2 x 8-fold	p.43	83.020.0410.0
Semiconductor output 4-fold universal	p.43	83.020.0406.0
Semiconductor output 4-fold AC	p.43	83.020.0411.0
Semiconductor output 4-fold DC	p.43	83.020.0412.0

Power supply units and extension modules are available in the section **gesis** RM

EnOcean-LON gateway



The EnOcean-LON gateway can convert 170 EnOcean radio channels into 56 LON network variables. For this purpose LON is integrated first. Then the EnOcean senders are programmed to the relevant channels. This programming operation is performed directly on the gateway and does not require any software knowledge. Modifications or extensions on the radio side are performed without LON integration.

Туре	Part No.
gesis LON R-56/0 (RC)	83.020.0320.0
Infeed:	
Supply Bus Extension module	12 V DC e.g. from gesis RM PS; approx. 60 mA LON (FTT 10 A transceiver)
Outputs:	
Quantity Inputs:	56 LON network variables (NVs), types configurable max. 170 links to EnOcean sensors possible

assignment programmable without LON tool

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. 2.5 m connection cable and SMA plug

Power supply unit for one base module or LON gateway



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.

gesis RM-PS 83.020.0401.0

Infeed: Supply **Output:**

230 V AC 12.5 V DC SELV / 160 mA for one base module

Power supply unit for 2 base modules or LON gateway



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.

gesis RM-PS 12/5 83.020.0421.0

Infeed:

230 V AC 12.5 V DC SELV / 400 mA Supply Output: for two base modules





gesis®RC

Radio module devices for stand-alone systems

The *gesis* RC device series (RC stands for radiocontrolled) uses the EnOcean radio technology as the transfer protocol. The most outstanding feature of this technology is the use of batteryless sensors (push-buttons). These generate the power required to send a radio telegram from a electromagnetic generator. They require absolutely no maintenance.

gesis RC as a stand-alone system

Some devices can be operated without any building automation system. In this application, the assignments of push-buttons and outputs is made without software – simply by pushing a button at the switching application and by actuating the desired switch for operating the lighting or sunblind group. **gesis** enables highly flexible installations that can be easily planned, as the switches and push-buttons can be mounted anywhere and do not require any cables.

gesis RC for automation

With a gateway to KNX, one to LON and a radio input for the *gesis* EIBRM device series, many sensors can be conveniently integrated into the world of building automation.

aesis RC for outdoors

The water-proof (IP68) RST distribution unit with EnOcean integration even makes it suitable for use outdoors.



Benefits of radio technology

- Cable-less sensors
 simple planning, simple installation
- Sensors without batteries
 no maintenance required
- Stand-alone system
 programming without software
- Integration into automation gateway for KNX and LON
- Decentralized installation can be installed on-site
- Pluggable connections
 smart installation with gesis® CON



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, 1-fold IP68 83.020.0504.0	Switching output, 4-fold IP68 83.020.0505.0	Switching output, 1-fold pluggable F0.000.0016.9	Dimming output 1-fold pluggable F0.000.0017.0	Switching output, 1-fold UP 83.020.0506.0	Alarm sender, 2 x 8-fold 83.020.0502.0	Window contact F0.000.0009.0	Gateway to KNX 83.020.0220.x	Gateway to LON 83.020.0320.x	Binary input RM (KNX / LON) 83.020.0408.0	Handheld transmitter	Convenient handheld transmitter F0.000.0024.4	Radio switch, multivendor	Radio switch	Hotel Card switch	Repeater F0.000.0024.5	Antenna 83.020.0503.0
	Switching output	4	4			1	4	1		1			4									
	Sunblind output			2	2																	
	Dimming output (R, C load)								1													
	Binary input										8				2x8							
Functions	Radio input												56	56								
E S	Alarm input										8											
	Window position											1										
	Pushbuttons (number of buttons /function)															1	4	2/4	2/4	1		
	Gateway to												KNX	LON								
	Reception display / field intensity																					
	Pluggable connections with gesis CON					RST	RST															
	Screw terminals																					
ø	External antenna																					
Properties	Surface mounting																					
Prop	Box mounting																					
	DIN rail mounting																					
	Frames from the Wieland product range																			incl.		
	Frames from various suppliers																					





Room installation with central commands

Requirements for each office

- two switched lighting circuits
- one sunblind
- no cabling to the sensors available

Note

If the lighting system or sunblinds are to be operated in other locations, additional switches are simply programmed for the corresponding outputs.

Realization

The switching outputs for lighting and sunblinds control two office axes each.

1 x switching output, 4-foldgesis RC V-0/4 1PH1 x sunblind output, 2-foldgesis RC V-0/2 W 1PH2 x pushbuttons 2 channelsmultivendor up/down2 x pushbuttons 4 channelsmultivendor I/O

Extension of room installation

Requirements

In addition to the existing operating options the sunblinds are to travel into a wind-safe position using a central weather station. The sunblinds are closed over the weekends using a seasonal time switch in order to prevent excessive warming of the building during the summer. The lighting shall be switched off via a central switch.

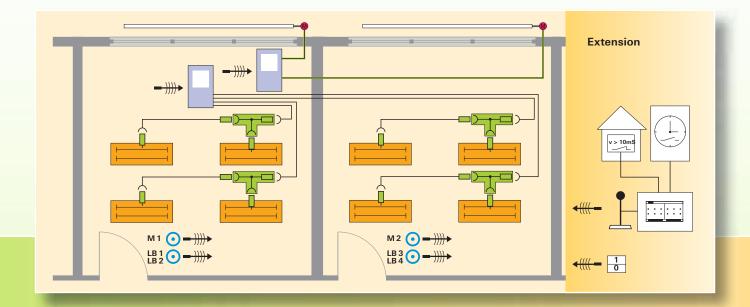
Realization

An additional radio alarm transmitter is installed in a central location. Potential-free contacts from the weather station and the time switch are connected to this alarm transmitter. The channels that are to react to the control commands are programmed with the corresponding channels of the radio alarm sender. With a 2-channel switch the lighting can be switched centrally.

1 x radio alarm sender 4-fold in gesis RAN

gesis RC R-16/0

1 x antenna for alarm sender gesis RC Z ANT SMA
1 x push-button, 2 channels multivendor I/O



Note

As the radio signals' range is limited, it must be ensured that all outputs are within the range of the alarm transmitter. If this is not possible, in the case of central commands over several floors, for example, several alarm senders can be connected in parallel.



Switching output, 4-fold



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

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

Main power supply 230 V AC

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

Switching current 16A ohmic load

General data:

Installation surface mounting, fixing with screws

Degree of protection **IP20** 254/112/32 mm

Dimensions (length/width/height)

Connection and supply components are available in the gesis consection.

Sunblind output, 2-fold



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.

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

Infeed:

Main power supply 230 V AC

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

Switching current 5A ohmic load General data:

Installation surface mounting, fixing with screws

Degree of protection IP 20 Dimensions (length/width/height) 254/112/32 mm

Connection and supply components are available in the *gesis* con section.

Switching outputs for outdoors



EnOcean switching outputs in the IP68 surface housings for outdoor use feature four or one 230 V relay. They 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.



The EnOcean power supply units in the IP68 surface housings for outdoor use are designed for connecting low-voltage halogen or LED luminaires. All electrical connections are pluggable

Туре		Part No.
gesis RC RST-0/1	1 relay output, 1 feed-through wiring	83.020.0504.0
gesis RC RST-0/1x2	2 relay outputs connected in parallel	83.020.0504.1
gesis RC RST-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 230 V AC Rated voltage

Switching capacity gesis RCRST-0/1... 5 A total ohmic load

Switching capacity gesis RCRST-0/4 6A (max. two of the LED/LV halogen modules

given below) General data:

IP68 (all connections plugged or closed) Degree of protection

Dimensions (length/width/height) gesis RCRST-0/1.. 104/162/57 mm gesis RCRST-0/4 104/162/96 mm Mounting option 4 elongated holes

gesis RSTPSU 12/12 LED 1 LED control unit 12 V/12 W, 1 feed-through wiring 83.020.0900.0 gesis RSTPSU 24/12 LED 1 LED control unit 24V/12W, 1 feed-through wiring 83.020.0901.0 gesis RSTPSU 12/70 LVH 1 LV halogen control 12 V/70 W, 1 feed-through wiring 83.020.0904.0

gesis RST PSI 350/12 LED 1 LED control unit 350 mA/12 W, 1 feed-through wiring 83.020.0902.0 gesis RSTPSI 700/12 LED 1 LED control unit 700 mA/12 W, 1 feed-through wiring 83.020.0903.0 Switching and dimming output with GST 18 18i3 connection



The EnOcean switching/dimming output can be integrated as an intermediate plug into the supply lines of luminaires, for example. This makes these devices so suitable for extensions. All electrical connections are pluggable.

gesis RCZW-0/1 F0.000.0016.9 1 relay output gesis RCZW-0/1D F0.000.0017.0 1 dimming output

Infeed:

230 V AC/16 A Power input GST 18i3 Connector black Codina Outputs

Quantity Connection type

connector GST 18i3 coding black Rated voltage 230 V AC 10 A ohmic load

Switching capacity F0.000.0016.9 Dimming load F0.000.0017.0 R,C load 60 - 210W General data:

Degree of protection Dimensions (length/width/height) 53/118/35 mm

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:

Power input 230 V AC / 16 A 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:

Installation surface mounting, fixing with screws

Degree of protection IP30 Dimensions (length/width/height) 48/29/35 mm

Alarm transmitter for sunblind control and binary input



This device has eight digital alarm inputs as well as eight digital standard inputs. The input signals are sent as EnOcean telegrams. The alarm inputs can cyclically send defined alarm positions, top or bottom, for sunblind outputs. Time monitoring of the alarm telegrams is performed by the sunblind outputs.

The standard inputs send defined EnOcean telegrams equivalent to the radio switches

gesis RCR-16/0 83.020.0502.0

Infeed:

24 V DC ± 20% Voltage Current 35 mA

Inputs:

8 x alarm inputs, 8 x binary inputs Quantity

General data:

Installation on DIN rail TH 35 Degree of protection Dimensions (width) approx. 6 MW (93 mm)

Accessories: Part No. 83.020.0503.0 Antenna

Window contact



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

Part No. Type 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 Dimensions (length/width/height) 110/19/15 mm

Contact connector magnet 23/14/6 mm Installation



EnOcean-KNX 56-fold gateway with 4 switching outputs



The gateway of the EnOcean radio technology to KNX manages 170 EnOcean telegrams and transfers them to 56 KNX objects. Independently from this, four switching outputs are available. All electrical connections are pluggable.

gesis EIB V-56/4 RC 83.020.0220.0

Three-phase main supply connection (output A1 → I

Three-phase main supply connection (output A1 \rightarrow L1; A2 \rightarrow L2; A3/A4 \rightarrow L3) gesis EIB V-56/4 RCSP 83.020.0220.1

Single-phase main supply connection (3-pole) gesis EIB V-56/4 B RC 83.020.0220.2

Three-phase main supply/antenna conn. (output A1 \rightarrow L1; A2 \rightarrow L2; A3/A4 \rightarrow L3)

gesis EIB V-56/4 B RCSP 83.020.0220.3 Single-phase main supply/antenna conn. (3-pole)

Infeed:

Type

Main power supply/KNX 230/400 V~, 50..60 Hz, max. 16 A; KNX

Outputs: 4, can be controlled separately

Rated voltage 230 V AC

Switching current max. 16 A ohmic load

Accessories:
Antenna Part No. 83.020.0503.0

EnOcean-LON gateway



The EnOcean-LON gateway can convert 170 EnOcean radio channels into 56 LON network variables. For this purpose LON is integrated first. Then the EnOcean senders are programmed to the relevant channels. This programming operation is performed directly on the gateway and does not require any software knowledge. Modifications or extensions on the radio side are performed without LON integration.

gesis LON R-56/0 (RC)	83.020.0320.0
Infeed:	
Supply	12V DC e.g. from gesis RM PS; approx. 60 mA LON (FTT 10 A transceiver)
Extension module	LON (FIT TOA transceiver)

Outputs:

Quantity
56 LON network variables (NVs), types configurable
Inputs:
max. 170 links to EnOcean sensors possible
assignment programmable without LON tool

Accessories:
Antenna Part No. 83.020.0503.0

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).

Туре	Part No.
gesis RM-16/0 (RC)	83.020.0408.0
gesis mivi-10/0 (mc)	03.020.0400.0

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:
 83.020.0503.0

 Antenna
 83.020.0503.0

 KNX base module
 83.020.0400.3

 LON base module
 83.020.0300.3

Handheld radio transmitter, 4 channels



Type Color Part No.

Handheld radio transmitter similar to RAL 9010 F0.000.0009.1

Handheld radio transmitter similar to RAL 9005 F0.000.0009.2

Handheld radio transmitter silver finish F0.000.0009.3

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

Handheld radio transmitter

- Batteryless and maintenance-free

- For stick-on surface mounting or as handheld remote control

Convenient hand-held transmitter



The convenient hand-held transmitter allows for control of the complete building. Whether complex lighting concepts or comprehensive actions according to a detailed schedule: this hand-held terminal lets you program building functions in the twinkling of an eye. Menu navigation is intuitive and is supported by easily understandable symbols.

Additionally, the device offers service functions for the installer regarding range planning and can be used for function testing during commissioning.

Туре	Part No.
Convenient hand-held transmitter	F0.000.0024.4

Technical data:

Radio channels 512
Configurable levels 32
Displays time

Displays time, date, temperature
Texts and symbols pre-defined or configurable
Lock with PIN code

Timers Speed dial keys 8

Dimensions (length/width/height) 165/55/21 mm

Special EnOcean function:

EnOcean service function, e.g. ID display, quality of radio signals, and a radio link test (enables range test between two hand-held terminals)

Power supply:
Supply with batteries 3 AAA-NiMH power packs (included in delivery)
Charging device USB charging device and separate USB cable (included in delivery)

Multivendor radio switch, 2/4 channels









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.

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

- 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
 Jung: A500, A plus
 Gira: Standard 55, E2, Event, Esprit
 Merten: M-Smart, M-Arc, M-Plan

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) (△▼)

- the rockers are imprinted with Up/Down ($\triangle \blacktriangledown$) symbols



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.



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.



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

ype	Color	Part No.	Marking
	1.5	F0 000 000F 0	1.10
adio switch, 2 channels	pure white	F0.000.0025.0	1/0
	pure white	F0.000.0025.2	(△▼)
	pure white	F0.000.0025.4	
	piano black	F0.000.0025.9	1/0
	piano black	F0.000.0026.1	(△▼)
	piano black	F0.000.0026.3	
	aluminum	F0.000.0026.8	1/0
	aluminum	F0.000.0027.0	(△▼)
	aluminum	F0.000.0027.2	
	1.5	E0 000 000E 1	1.70
adio switch, 4 channels	pure white	F0.000.0025.1	1/0
	pure white	F0.000.0025.3	(△▼)
	pure white	F0.000.0025.5	
	piano black	F0.000.0026.0	1/0
	piano black	F0.000.0026.2	(△▼)
	piano black	F0.000.0026.4	
	aluminum	F0.000.0026.9	1/0
	aluminum	F0.000.0027.1	(△▼)
	aluminum	F0.000.0027.3	

- * 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)
- the combination frames have to be ordered separately

Type	Color	Part No.
Hotel Card switch	white	F0.000.0024.6
Hotel Card switch	piano black	F0.000.0024.7
Hotel Card switch	aluminum	F0.000.0024.8

Power supply: Energy self-sufficient Installation:

energy is produced when the card is inserted 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	pure white	F0.000.0025.6
Combination frame 2-fold	pure white	F0.000.0025.7
Combination frame 3-fold	pure white	F0.000.0025.8
Combination frame 1-fold	piano black	F0.000.0026.5
Combination frame 2-fold	piano black	F0.000.0026.6
Combination frame 3-fold	piano black	F0.000.0026.7
Combination frame 1-fold	aluminum	F0.000.0027.4
Combination frame 2-fold	aluminum	F0.000.0027.5
Combination frame 3-fold	aluminum	F0.000.0027.6

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.

Type	Part No.
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 mr

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 2.5m connection cable.

Type Part No.

Antenna 83.020.0503.0

Antenna

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

Radio switch, 2/4 channels and suitable frames (phase-out)





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 ($\land \blacktriangledown$) symbols. Between the rockers there is a marking field with detachable marking strips. The following combination frames fit these radio switches.



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

F0 000 0002 1 Radio switch, 2 channels white F0.000.0004.4 aluminum finish F0.000.0002.2 white F0.000.0004.5 aluminum finish Radio switch, 4 channels F0.000.0002.3 aluminum finish F0.000.0004.6 white F0.000.0002.4 aluminum finish F0.000.0004.7

- batteryless and maintenance-free
- for mounting on plane surfaces with screws or adhesive pads (included in delivery)

Radio switch, 2/4 channels (light) I / 0

- the rockers are imprinted with I/O symbols

Radio switch, 2/4 channels (sunblind) Up / Down

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

 Combination frame 1-fold
 white aluminum finish white F0.000.0002.5

 Combination frame 2-fold
 white F0.000.0002.6

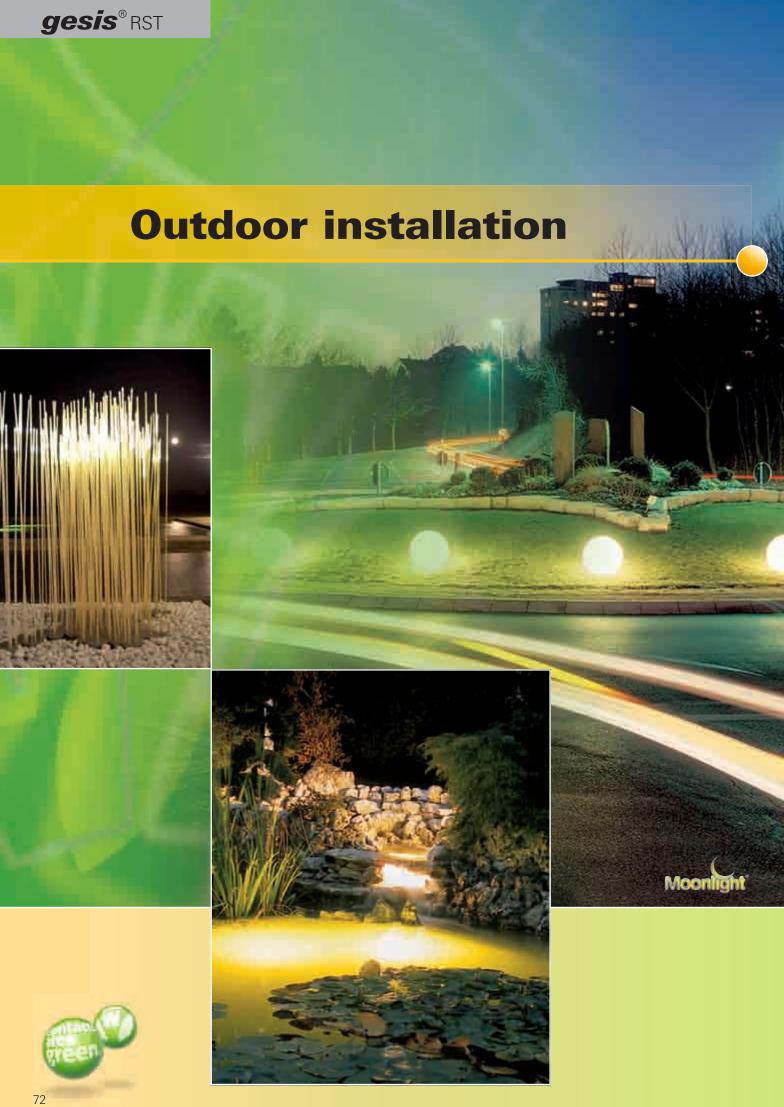
 Combination frame 3-fold
 white F0.000.0004.9

 Combination frame 3-fold
 white F0.000.0003.5

 aluminum finish aluminum finish
 F0.000.0009.7

Combination frame, 1-fold to 3-fold

- match the radio switches
- not suitable for multivendor radio switches



gesis® RST – plug & play outdoors Electrical installation following the "Lego" principle

■ 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, *gesis* IP+ 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 pre-assembled 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 protection degree make the RST connector a strong partner for outdoor lighting.

Strong partition outdoor lighting.

■ Optimization

The system becomes even more versatile with *gesis* RCRST 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 gesis®RST 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

Type of protection IP65, IP66, IP67

IP68 (3 m, 2 hours)

all IP protection degrees are only valid for plugged cables or

closed connections

Connector only from the **gesis** RST 20i2 and **gesis** RST 20i3 series

Dimensions

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

Housing thermoplastic PA 66 halogen-free

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
 Brick/gas-aerated concrete walls
 Reinforced concrete walls/ceilings
 Considerable limitations in the range
 typically 30 m through max. 5 walls
 typically 20 m through max. 1 floor/wall
 (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 12 V 83.020.0900.0	LED constant voltage supply 24 V 83.020.0901.0	LED constant voltage supply 350 mA 83.020.0902.0	LED constant voltage supply 700 mA 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 gesis® 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 *gesis* 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 F0.000.0002.3

2 x EnOcean switching application 4-fold 83.020.0505.0

3 LED constant current supply 350 mA 83.020.0902.0

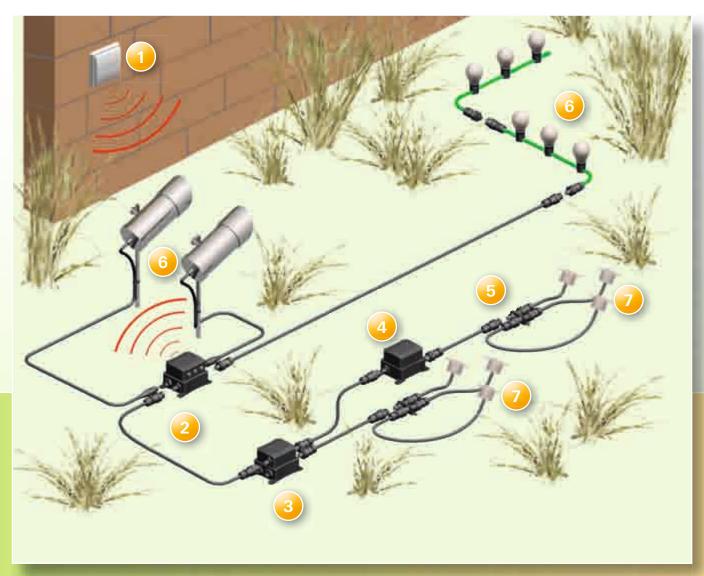
4 LED constant current supply 350 mA 83.020.0902.0

(a) Distribution block for series connection 99.910.0000.7

6 Lighting 230 V with RST 20i3 connection 230 V

🕜 LED spotlight with RST 20i2 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:

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

Outputs:

Dimensions (length/width/height)

Quantity Connection type connector RST 20i3 coding black

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

Switching application EnOcean 4-fold



EnOcean 1-fold switching outputs in the IP68 surface housing for outdoor use feature one 230V relay. They can be programmed for 30 push-button pairs. All electrical connections are pluggable.

Part No. gesis RC RST-0/1 gesis RC RST-0/1x2 1 relay output, 1 feed-through wiring 83.020.0504.0 2 relay outputs connected in parallel 83.020.0504.1

Incoming supply:

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

Outputs:

connector RST 20i3 coding black Connection type

Rated voltage Switching capacity 230 V AC

5A total ohmic load

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

Dimensions (length/width/height) 104/162/57 mm Installation option 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.

Part No. gesis RST PSI 350/12 LED 83 020 0902 0

Incoming supply:

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

General data: Type of protection

Ambient temperature

Electrical connections

-25°C to +55°C 104/162/96 mm Dimensions (length/width/height) Installation option 4 elongated holes

pluggable with RST 20i2 ... 20i3

230 V AC/20 A RST 20i3 poding black 230 V AC/20 A RST 20i3 poding black

IP68 (all connections plugged or closed)

350 mA DC/max. 12W RST 20i2 poding brown

Constant power supply unit, 700 mA DC



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

Part No. gesis RST PSI 700/12 LED 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 230 V AC/20 A RST 20i3 coding black 230 V AC/20 A RST 20i3 coding black 700 mA DC/max. 12 W RST 20i2 coding brown

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

4 elongated holes pluggable with RST 20i2 ... 20i3 LED constant voltage supply, 12 V DC



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

•	
Туре	Part No.
gesis RST PSU 12/12 LED	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 RST 20i3 coding black 230 V AC/20 A RST 20i3 coding black 12 V DC/max. 12 W RST 20i2 coding pebble gray

IP68 (all connections plugged or closed) -25 $^{\circ}\text{C}$ to +55 $^{\circ}\text{C}$ 104/162/96 mm 4 elongated holes pluggable with RST 20i2 ... 20i3

LED constant voltage supply, 24V DC



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

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 RST 20i3 coding black 230 V AC/20 A RST 20i3 coding black 12 V DC/max. 12 W RST 20i2 coding pebble gray

IP68 (all connections plugged or closed) -25 $^{\circ}\text{C}$ to +55 $^{\circ}\text{C}$ 104/162/96 mm 4 elongated holes pluggable with RST 20i2 ... 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.

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 RST 20i3 coding black 230 V AC/20 A RST 20i3 coding black 12 V AC/20 – 70 W RST 20i2 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 RST 20i2 ... 20i3

Accessories: covers



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

Туре	Part No.
Suitable for all RST 20i2 and RST 20i3 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





GST 18i 3-pole to 6-pole

The product range for the installation of lighting systems, switches and outlets, 3, 4, 5, or 6-pole. Mechanical coding enables a clear separation of different applications. In addition, the color of the connectors indicates the relevant links.

Features

- Proven connector system for fixed installations
- Consistent according to IEC 61535
- Pre-assembled cables save time at the construction site



GST 15, 2-pole to 5-pole

Connector for connection directly on-site. Male or female complete with strain relief for connection of all current types of cable. 2- to 5-pole with different codings.

Features

- Compact MINI connectors
- Integrated locking device
- Connection of cables up to a cross-section of 2.5 mm²
- Codings for mains voltage, low-voltage and dimmer applications
- Straight and elbow strain relief for 4 and 5-pole connectors



BST 14i2 and BST 14i3

BST allows the pluggable installation even of signal applications. Mechanical coding and clear assignments by different colors make installation easy: green for EIB/KNX applications, black for general signal or LON applications.

Features

- Standard connectors for KNX applications
- Distribution units and device connectors
- Pre-assembled cables



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 and IP68 (3 m, 2 hours) 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 and IP68 (3 m, 2 hours))
- Comprehensive distribution unit and accessories program
- Pre-assembled cables save time at the construction site



More detailed product information: **0600.1** *gesis* CON The Art of Plugging

Electrical installation of buildings via plug & play

Available directly from our download center on the Internet in PDF format: product information also in e-CAT at http://eshop.wieland-electric.com



Facility management - simply plug it in

Perfect building installation



gesis® – one name, one idea, an unparalleled success story! With pluggable electrical installation, Wieland has been the unchallenged market leader for 30 years. No wonder since time savings of 70 % and cost reductions of 30 % always 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 safe and error-free installation.

The *gesis* system comprises connectors, radiocontrolled switching units, devices for decentralized building automation and pluggable distribution boxes for state-of-the-art facility management, cables, and busbar and low-voltage systems.

gesis CON 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 more than 5,000 components offers solutions for any kind of electrical installation.



Connector system in IP20 format for Outputs

GST 18i3, coding 1, bla	ack	GST 18i4, coding 1, k	olack	GST 18i5, coding 1,	black	GST 18i5, coding 1,	pastel blue
Length m	Part No.	Length m	Part No.	Length m	Part No.	Length m	Part No.
Use for		Use for sunblind	outputs	Use for		Use for switching	-
switching outputs	s (relay)	230 V AC		switching output	ıts (relay)	dimming output	S
230 V AC				230 V AC, 5-pole	e		
gesis EIB V		gesis EIB V		gesis EIB V		gesis EIB V	
	83.020.0212.x	Sunblind output	83.020.0221.x	Switching output	83.020.0214.x	Switching/dimming outpu	it 83.020.0213.x
	83.020.0220.x	Sunblind output	83.020.0222.4	,		gesis EIB M2	
	83.020.0225.x	Combination actuator	83.020.0212.x			Switching/dimming outpu	ıt 83.020.1026.x
gesis RC Switching output	83.020.0500.x	gesis RC Sunblind output	83.020.0501.x				
gesis FLEX	03.020.0300.X	gesis FLEX	03.020.0301.X				
	83.020.0623.x	Sunblind output	83.020.0624.x				
gesis EIB M2		gesis EIB M2					
Switching output	83.020.1023.x	Sunblind output	83.020.1024.x				
Male, screw connection	on	Male, screw connec	tion	Male, screw connec	etion	Male, screw connec	etion
W.				WALL			
	92.932.3053.1 92.002.5153.1	Test plug	92.944.3053.1 92.002.5253.1		92.954.4053.1	Test plug	92.954.4453.0 92.002.5353.0
Male – free end 3 x 1.5 H05VV-F (PVC)	Male – free end 4 x 1.5 H05VV-F (PV	C)	Male – free end 5 x 1.5 H05VV-F (P\	/C)	Male – free end 5 x 1.5 H05VV-F (PV	/C)
1.0 to 8.0 to	92.232.1004.1 92.232.8004.1	1.0 to 8.0 to	92.207.1004.1 92.207.8004.1	1.0 to 8.0 to	92.257.1004.1 92.257.8004.1	1.0 to 8.0 to	92.257.1004.9 92.257.8004.9
Male – female 3 x 1.5 H05VV-F (PVC)	Male – female 4 x 1.5 H05VV-F (PV	C)	Male – female 5 x 1.5 H05VV-F (P\	/C)	Male – female 5 x 1.5 H05VV-F (PV	′C)
1.0 to	92.232.1000.1 92.232.8000.1	1.0 to 8.0 to	92.207.1000.1 92.207.8000.1	1.0 8.0 to	92.257.1000.1 92.257.8000.1	1.0 8.0 to	92.257.1000.9 92.257.8000.9

Connector system in IP 20 format for

Inputs

GST 15i5, coding 3, light blue	GST 18i5, coding 3, light blue	GST 18i4, coding 2, pebble gray	
	Use for binary input 24V		
gesis FLEX Input 83.020.0622.0	gesis EIB M2 Input 24V 83.020.0214.x	gesis EIB M2 Input 230V 83.020.0214.x	
Male, spring clamp connection as fig., but light blue contact zone	Male, screw connection	Male, screw connection	
91.952.4353.0 Test plug 92.002.5453.0	92.954.3353.0	92.944.3553.0 Test plug 92.002.5053.0	
Male – free end as fig., but light blue contact zone	Male – free end 5 x 0.75 Ölflex Classic (PVC)	Male – free end 4 x 1.5 H05VV-F (PVC)	
on request	4.0 99.332.6200.0 8.0 99.336.6200.0	1.0 92.207.1004.3 8.0 to 92.207.8004.3	
Male – female as fig., but light blue contact zone	Male – female 5 x 0.75 Ölflex Classic (PVC)	Male – female 4 x 1.5 H05VV-F (PVC)	
on request	4.0 99.342.6200.0 8.0 99.346.6200.0	1.0 to 92.207.1000.3 8.0 to 92.207.8000.3	

Connector system in IP 20 format for

Incoming supply



Connector system in IP 20 format for

Incoming supply

GST 18i3, coding 1, black	GST 18i5, coding 1, black	BST 14i2, coding 1, green	
Length m Part No.	_	Length m Part No.	
Use for mains feed	Use for mains feed	Use for KNX feed	
1-phase, 3-pole	3-phase, 5-pole	KNX-TP, SELV	
gesis EIB V Combination actuator 83.020.0212.4 Switching/dimming output 83.020.0213.4	gesis EIB V Combination actuator 83.020.0212.0 Switching/dimming output 83.020.0213.0	gesis EIB V Combination actuator 83.020.0212.x Switching/dimming output 83.020.0213.x	
Gateway 83.020.0220.1 Gateway 83.020.0220.3 Sunblind output 83.020.0221.4 Sunblind output 83.020.0222.4 Switching output 83.020.0225.4	Switching output 83.020.0214.0 Gateway 83.020.0220.0 Gateway 83.020.0220.2 Sunblind output 83.020.0221.0 Switching output 83.020.0225.0	Switching output 83.020.0214.0 Gateways 83.020.0220.x Sunblind output 83.020.0221.x Sunblind output 83.020.0222.4 Switching output 83.020.0225.x	
gesis RC Switching output 83.020.0500.x Sunblind output 83.020.0501.x gesis EIB M2	gesis EIB M2	gesis EIB M2 Base modules 83.020.1020.0 gesis FLEX Base modules 83.020.060x.x	
Base modules 83.020.0601.x Feed modules 83.020.0611.x	Feed modules 83.020.0610.x	50.020.000x.x	
Female, screw connection	Female, screw connection	Female, spring clamp connection	
i cinale, solew collifection	i dinaie, solew conficction	i cinale, spring ciamp connection	
92.931.3053.1	92.953.4053.1	93.421.0553.1	
Female – free end 3 x 1.5 H05VV-F (PVC)	Female – free end 5 x 1.5 H05VV-F (PVC)	Female – free end 2x2x0.8 FB-2Y(ST)2Y (PVC)	
1.0 92.232.1004.1 8.0 to 92.232.8004.1	1.0 92.257.1003.1 8.0 to 92.257.8003.1	1.0 94.425.1003.7 8.0 to 94.425.8003.7	
Male – female 3 x 1.5 H05VV-F (PVC)	Male – female 5 x 1.5 H05VV-F (PVC)	Male – female 2x2x0.8 FB-2Y(ST)2Y (PVC)	
1.0 to 92.232.1000.1 92.232.8000.1	1.0 to 92.257.1000.1 8.0 to 92.257.8000.1	1.0 to 94.425.1000.7 8.0 to 94.425.8000.7	

Connector system RST in IP65...68 format for

Incoming supply, output, accessories



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



More detailed product informations:

0690.1 *gesis* IP+

Pluggable electrical installations in IP68 Catalog 2013

Available directly from our download center on the Internet in PDF format; product information also in e-CAT at http://eshop.wieland-electric.com



wipos Power supply units

Pure power. No knick-knacks.

Power supply units play a critical role in the control cabinet. Their reliability greatly influences system availability. Providing a robust and proven design is therefore very important.

In the **wipos** series, we dispense with useless knick-knacks and offer power supply units thatimpress with their important characteristics.

wipos – convincing in these essential disciplines:





(100%) 100% performance up to 60°C



Auto or wide-range voltage input

for worldwide use



Outdoor installation possible due to wide temperature range



High operational safety due to long power back-up times of more than 30 ms



Balance of voltage drops with settable output voltage



Simple commissioning with LED diagnosis

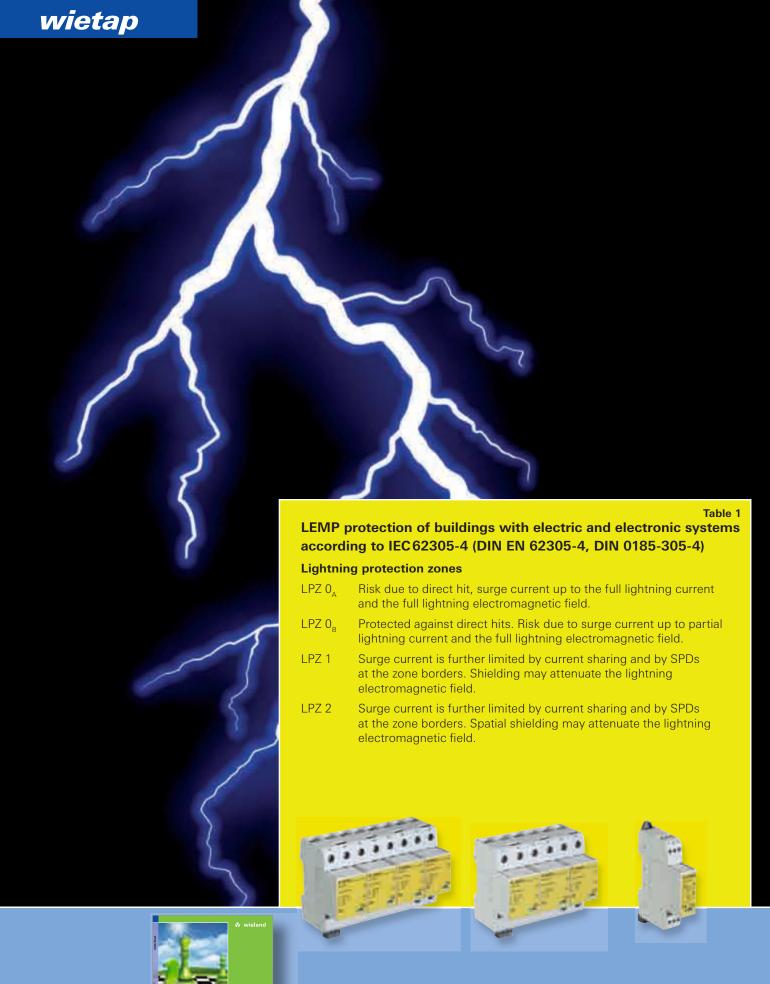


Further power supply units can be found in our *interface* catalog.

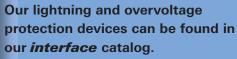
0800.1 "int**erface**

Solutions for the control cabinet " Catalog 2014









0800.1 "*interface* Solutions for the control cabinet" Catalog 2014

wietap The overvoltage

protection

Important facts about overvoltage

Overvoltage protection is becoming increasingly important not only for machines and systems but also in building technology. The risk of destruction of valuable electronic components or even complete production plants, computer or communication systems caused by sudden overvoltages or direct lightning strikes is alarming not only insurers. It is wise for users to secure their electrical devices, plants and systems adequately and reliably against this threat and expand their availablity.



Overvoltage protection modules are divided into three types that are characterized by their ability to absorb overvoltage energies. Type 1 arresters can divert the highest amount of energy to the ground (PE). These devices are ideally placed at the point of incoming supply to a building. The surge current will be clearly attenuated in the installation. In sub-distributions and control cabinets, the residual energy will be reduced further by types 2 and 3 to such a degree that the end devices can absorb it without stress.







Index: Part No., type, group, page

00.702.0303.7		gesis	CON	82
00.702.0323.9		gesis	CON	82
00.709.0303.7		gesis	CON	82
00.709.0323.9		gesis	CON	82
05.562.3000.0		gesis	CON	82
05.563.9753.0		gesis	CON	82
05.564.4453.1		gesis	RST	77
05.564.4453.1		gesis	IP+	84
05.587.3156.0		gesis	CON	82
05.587.3156.1		gesis	CON	82
83.020.0212.0	gesis EIB V-0/2+1W	gesis	EIB V	55
83.020.0212.4	gesis EIB V-0/2+1W SP	gesis	EIB V	55
83.020.0213.0	gesis EIB V-0/2SD	gesis	EIB V	55
83.020.0213.4	gesis EIB V-0/2SD SP	gesis	EIB V	55
83.020.0214.0	gesis EIB V-0/6	gesis	EIB V	54
83.020.0220.0	gesis EIB V-56/4 RC	gesis	EIB V	55
83.020.0220.0	gesis EIB V-56/4 RC	gesis	RC	68
83.020.0220.1	gesis EIB V-56/4 RCSP	gesis	EIB V	55
83.020.0220.1	gesis EIB V-56/4 RCSP	gesis	RC	68
83.020.0220.2	gesis EIB V-56/4 B RC	gesis	EIB V	55
83.020.0220.2	gesis EIB V-56/4 B RC	gesis	RC	68
83.020.0220.3	gesis EIB V-56/4 B RCSP	gesis	EIB V	55
83.020.0220.3	gesis EIB V-56/4 B RCSP	gesis	RC	68
83.020.0221.0	gesis EIB V-0/2W B	gesis	EIB V	54
83.020.0221.4	gesis EIB V-0/2W B SP	gesis	EIB V	54
83.020.0222.4	gesis EIB V-0/2W F SP	gesis	EIB V	54
83.020.0225.0	gesis EIB V-0/4 B	gesis	EIB V	54
83.020.0225.0		gesis	CON	82
83.020.0225.4	gesis EIB V-0/4 B SP	gesis	EIB V	54
83.020.0300.3	gesis LON RM2-BAS	gesis	EIB RM	40
83.020.0300.3	gesis LON RM2-BAS	gesis	LON	60
83.020.0320.0	gesis LON R-56/0 (RC)	gesis	LON	60
83.020.0320.0	gesis LON R-56/0 (RC)	gesis	RC	68
83.020.0400.3	gesis EIB RM2-BAS	gesis	EIB RM	40
83.020.0401.0	gesis RM-PS	gesis	EIB RM	40
83.020.0401.0	gesis RM-PS	gesis	LON	61
83.020.0402.0	gesis RM-8/0 (12)	gesis	EIB RM	41
83.020.0402.0		gesis		60
83.020.0403.0	gesis RM-0/4	gesis		41
83.020.0403.0		gesis		60
83.020.0404.0	gesis RM-0/2W SI	gesis		42
83.020.0404.0		gesis		60
83.020.0405.0	gesis RM-0/2SD	gesis		42
83.020.0405.0		gesis		60
83.020.0406.0	gesis RM-0/4 (HL)	gesis		43
83.020.0406.0		gesis		60
83.020.0407.0	gesis RM-0/2W DC	gesis		42
83.020.0407.0		gesis		60
83.020.0408.0	gesis RM-16/0 (RC)	gesis		41
00 000 000				00
83.020.0408.0		gesis		60
83.020.0408.0 83.020.0408.0 83.020.0409.0	gesis RM-16/0 (RC) gesis RM-0/2D	gesis gesis	RC	68 42

83.020.0409.0		gesis	LON	60
83.020.0410.0	gesis RM-0/2DA	gesis	EIB RM	43
83.020.0410.0		gesis	LON	60
83.020.0411.0	gesis RM-0/4 HL AC	gesis	EIB RM	43
83.020.0411.0		gesis	LON	60
83.020.0412.0	gesis RM-0/4 HL DC	gesis	EIB RM	43
83.020.0412.0		gesis	LON	60
83.020.0421.0	gesis RM-PS 12/5	gesis	EIB RM	40
83.020.0421.0	gesis RM-PS 12/5	gesis	LON	61
83.020.0500.0	gesis RC V-0/4 1PH	gesis	RC	66
83.020.0500.2	gesis RC V-0/4 B 1PH	gesis	RC	66
83.020.0501.1	gesis RC V-0/2W AL 1PH	gesis	RC	66
83.020.0501.2	gesis RC V-0/2W AL B 1PH	gesis	RC	66
83.020.0502.0	gesis RC R-16/0	gesis	RC	67
83.020.0503.0		gesis	EIB RM	41
83.020.0503.0		gesis	EIB V	55
83.020.0503.0		gesis	LON	60
83.020.0503.0		gesis	RC	71
83.020.0504.0	gesis RC RST-0/1	gesis	RC	66
83.020.0504.0	gesis RC RST-0/1	gesis	RST	76
83.020.0504.1	gesis RC RST-0/1x2	gesis	RC	66
83.020.0504.1	gesis RC RST-0/1x2	gesis	RST	76
83.020.0505.0	gesis RC RST-0/4	gesis	RC	66
83.020.0505.0	gesis RC RST-0/4	gesis	RST	76
83.020.0506.0	gesis RC UP-0/1	gesis	RC	67
83.020.0600.0	gesis KNX FLEX-BAS	gesis	FLEX	13
83.020.0600.1	gesis KNX FLEX-BAS Z	gesis	FLEX	13
83.020.0601.0	gesis KNX FLEX-BAS SP	gesis	FLEX	13
83.020.0601.1	gesis KNX FLEX-BAS SP Z	gesis	FLEX	13
83.020.0610.0	gesis FLEX-MS	gesis	FLEX	15
83.020.0610.1	gesis FLEX-MS Z	gesis	FLEX	15
83.020.0611.0	gesis FLEX-MS SP	gesis	FLEX	15
83.020.0611.1	gesis FLEX-MS SP Z	900.0	FLEX	15
83.020.0622.0	gesis FLEX-8/0 (12)		FLEX	14
83.020.0622.1	gesis FLEX-8/0 (12) Z	gesis	FLEX	14
83.020.0623.0	gesis FLEX-8/0 (12)	gesis		14
83.020.0623.1	gesis FLEX-8/0 (12) Z	gesis		14
83.020.0624.0	gesis FLEX-0/2W	gesis		17
83.020.0624.1	gesis FLEX-0/2W Z	gesis		17
83.020.0660.0	gesis FLEX-REG4	gesis		17
83.020.0661.0	gesis FLEX-REG4 V	gesis		16
83.020.0662.0	gesis FLEX-REG4 D	gesis		16
83.020.0663.0 83.020.0900.0	gesis FLEX-REG4 DV gesis RST PSU 12/12 LED	gesis		16
	gesis RST PSU 12/12 LED	gesis	RC	66
83.020.0900.0	9	J	RST	77
83.020.0901.0 83.020.0901.0	gesis RST PSU 24/12 LED	gesis	RC	66 77
83.020.0901.0	gesis RST PSU 24/12 LED	9	RST	
83.020.0902.0	gesis RST PSI 350/12 LED gesis RST PSI 350/12 LED	gesis gesis		66 76
83.020.0902.0	gesis RST PSI 350/12 LED	gesis		66
83.020.0903.0	gesis RST PSI 700/12 LED	gesis		76
83.020.0903.0	gesis RST PSU 12/70 LVH	gesis		66
00.020.0304.0	90313 11011 3U 12//U LVM	gesis	110	00

83.020.0904.0	gesis RST PSU 12/70 LVH		gesis	RST	77
83.020.1020.0	gesis EIB M2-BAS		gesis		48
83.020.1020.0			gesis		82
83.020.1021.0	gesis EIB M2-4/0		gesis		48
83.020.1022.0	gesis EIB M2-4/0 (24)		_	EIB M2	48
83.020.1023.0	gesis EIB M2-0/2		_	EIB M2	48
83.020.1024.0	gesis EIB M2-0/1Wx2			EIB M2	49
83.020.1026.0	gesis EIB M2-0/SD		gesis		49
83.020.1400.0	gesis KNX P CO		gesis		30
83.020.1404.0	gesis KNX TA 2/2		gesis		33
83.020.1405.0	gesis KNX TA 4/4		gesis		33
83.020.1405.0			_		33
	gesis KNX TA 6/4		gesis		
83.020.1413.0	gesis KNX PS160		gesis		34
83.020.1414.0	gesis KNX PS320		gesis		34
83.020.1415.0	gesis KNX PS640		gesis		34
83.020.1416.0	gesis KNX LK		gesis		35
83.020.1417.0	gesis KNX IP-R		gesis		35
83.020.1418.0	gesis KNX USB		gesis		34
91.257.0500.2			gesis		18
91.257.1000.2			gesis	FLEX	18
91.952.4353.0		-	gesis	CON	81
92.002.5053.0			gesis	CON	81
92.002.5153.1			gesis	CON	80
92.002.5253.1			gesis	CON	80
92.002.5353.0		-	gesis	CON	80
92.002.5453.0			gesis	CON	81
92.021.4050.8			gesis	IP+	84
92.031.4253.1			gesis	CON	82
92.031.4353.1			gesis	CON	82
92.031.5253.1			gesis	CON	82
92.031.5353.1			gesis	CON	82
92.207.1000.1			gesis	CON	80
92.207.1000.3			gesis	CON	81
92.207.1004.1			gesis	CON	80
92.207.1004.3			gesis		81
92.207.8000.1			gesis		80
92.207.8000.3			gesis		81
92.207.8004.1			gesis		80
92.207.8004.3			qesis		81
92.232.1000.1			gesis		80
92.232.1000.1			gesis		83
92.232.1000.1			gesis		80
92.232.1004.1			gesis		83
92.232.8000.1		-	gesis		80
92.232.8000.1			gesis		83
92.232.8004.1			gesis		80
92.232.8004.1			gesis		83
92.257.1000.1			gesis		80
92.257.1000.1		-	gesis		83
92.257.1000.9			gesis		80
02 257 1002 1			gesis	CON	83
92.257.1003.1			gesis		

92.257.1004.9	gesis	CON	80
92.257.8000.1	gesis	CON	80
92.257.8000.1	gesis	CON	83
92.257.8000.9	gesis	CON	80
92.257.8003.1	gesis	CON	83
92.257.8004.1	gesis	CON	80
92.257.8004.9	gesis	CON	80
92.931.3053.1	gesis	CON	83
92.932.3053.1	gesis	CON	80
92.944.3053.1	gesis	CON	80
92.944.3553.0	gesis	CON	81
92.953.4053.1	gesis	CON	83
92.954.3353.0	gesis	CON	81
92.954.4053.1	gesis	CON	80
92.954.4453.0	gesis	CON	80
93.421.0553.1	gesis	CON	83
93.421.1153.0	gesis	CON	82
94.425.1000.7	gesis	CON	83
94.425.1003.7	gesis	CON	83
94.425.8000.7	gesis	CON	83
94.425.8003.7	gesis	CON	83
95.300.0300.0	gesis	CON	82
95.350.0200.0	gesis	CON	82
96.020.0150.8	gesis	IP+	84
96.020.0250.8	gesis	IP+	84
96.021.4051.4	gesis	IP+	84
96.022.4050.8	gesis	IP+	84
96.022.4051.4	gesis	IP+	84
96.030.0153.0	gesis	IP+	84
96.030.0253.0	gesis	IP+	84
96.031.4053.1	gesis	IP+	84
96.031.4153.1	gesis	IP+	84
96.032.4053.1	gesis	IP+	84
96.032.4153.1	gesis	IP+	84
96.222.1030.1	gesis	IP+	84
96.222.1032.4	gesis	IP+	84
96.222.1032.8	gesis	IP+	84
96.222.8030.1	gesis	IP+	84
96.222.8032.4	gesis	IP+	84
96.222.8032.8	gesis	IP+	84
96.537.0000.7	gesis	IP+	84
99.332.6200.0	gesis	CON	81
99.336.6200.0	gesis	CON	81
99.342.6200.0	gesis	CON	81
99.346.6200.0	gesis	CON	81
99.400.9999.8	gesis	FLEX	18
99.401.9999.8	gesis	FLEX	18
99.414.6205.2	gesis	RST	77
99.414.6205.2	gesis	IP+	84
99.416.6205.2	gesis	RST	77
99.416.6205.2	gesis	IP+	84
99.910.0000.7	gesis	IP+	84



Index: Part No., type, group, page

F0.000.0002.1			gesis	RC	71
F0.000.0002.2			gesis	RC	71
F0.000.0002.3			gesis	RC	71
F0.000.0002.4			gesis	RC	71
F0.000.0002.5			gesis	RC	71
F0.000.0002.6			gesis	RC	71
F0.000.0003.5			gesis	RC	71
F0.000.0004.4			gesis	RC	71
F0.000.0004.5			gesis	RC	71
F0.000.0004.6			gesis	RC	71
F0.000.0004.7			gesis	RC	71
F0.000.0004.8			gesis	RC	71
F0.000.0004.9			gesis	RC	71
F0.000.0005.6			gesis	RC	69
F0.000.0005.7			gesis	RC	69
F0.000.0005.8			gesis	RC	69
F0.000.0005.9			gesis	RC	69
F0.000.0007.5			gesis	RC	69
F0.000.0007.6			gesis	RC	69
F0.000.0007.7			gesis	RC	69
F0.000.0007.8			gesis	RC	69
F0.000.0007.9			gesis	RC	69
F0.000.0008.0			gesis	RC	69
F0.000.0008.1			gesis	RC	69
F0.000.0008.2			gesis	RC	69
F0.000.0008.3	gesis KNX OVP		gesis	KNX	35
F0.000.0009.0	gesis RC S-SRWSENFK		gesis	RC	67
F0.000.0009.1			gesis	RC	68
F0.000.0009.2			gesis	RC	68
F0.000.0009.3			gesis	RC	68
F0.000.0009.7			gesis	RC	71
F0.000.0016.9	gesis RCZW-0/1	_	gesis	RC	67
F0.000.0017.0	gesis RC ZW-0/1D		gesis	RC	67
F0.000.0017.3	DALI Gateway N141		gesis	KNX	30
F0.000.0024.4			gesis		69
F0.000.0024.5			gesis		71
F0.000.0024.6			gesis		70
F0.000.0024.7			gesis		70
F0.000.0024.8			gesis		70
F0.000.0025.0			gesis		70 70
F0.000.0025.1 F0.000.0025.2			gesis		70
F0.000.0025.2 F0.000.0025.3			gesis		70
F0.000.0025.3 F0.000.0025.4			gesis		70
F0.000.0025.4			gesis gesis		70
F0.000.0025.5 F0.000.0025.6			gesis		70
F0.000.0025.7			gesis		70
F0.000.0025.7			gesis		70
F0.000.0025.9			gesis		70
F0.000.0026.0			gesis		70
F0.000.0026.1			gesis		70
F0.000.0026.2			gesis		70
			9 5515		, 3

F0.000.0026.3			gesis	RC	70
F0.000.0026.4			gesis	RC	70
F0.000.0026.5			gesis	RC	70
F0.000.0026.6			gesis	RC	70
F0.000.0026.7			gesis	RC	70
F0.000.0026.8			gesis	RC	70
F0.000.0026.9			gesis	RC	70
F0.000.0027.0			gesis	RC	70
F0.000.0027.1			gesis	RC	70
F0.000.0027.2			gesis	RC	70
F0.000.0027.3			gesis	RC	70
F0.000.0027.4			gesis	RC	70
F0.000.0027.5			gesis	RC	70
F0.000.0027.6			gesis	RC	70
F0.000.0032.0	gesis KNX RTR SP		gesis	KNX	31
F0.000.0032.1	gesis KNX TH S		gesis	KNX	31
F0.000.0032.2	gesis KNX M 331		gesis	KNX	30
F0.000.0032.3	gesis TH P230		gesis	KNX	32
F0.000.0032.4	gesis TH VA78		gesis	KNX	32
F0.000.0032.5	gesis TH VA80		gesis	KNX	32
F0.000.0032.6	gesis TH P24		gesis	KNX	32
F0.000.0032.7	gesis KNX RTR FC		gesis	KNX	31
F0.000.0032.8	gesis KNX FC 1-3		gesis	KNX	31
F0.000.0033.8	gesis KNX REG AM		gesis	KNX	35
Z5.524.1410.0			gesis	FLEX	19
Z5.524.1510.0			gesis		19
Z5.524.1610.0			gesis	FLEX	19
Z5.524.1710.0		-	gesis		19
Z5.524.1810.0			gesis	FLEX	19
Z5.524.1910.0		-	gesis	FLEX	19
Z5.524.2010.0			gesis	FLEX	19
Z5.564.4553.1			gesis	RST	77
Z5.564.4553.1		•	gesis	IP+	84



More detailed product informations:

0600.1 **gesis** CON

The Art of Plugging Electrical installation of buildings via plug & play

0601.0 **gesis**TOP

Modular lighting solutions

Luminaires

connector concepts

0630.1 gesis NV

Smallness on a high level Compact connectors for luminaires and building automation

0640.1 gesis MINI

Small and powerful

The pluggable electrical installation

with a compact design

0650.1 gesis MICRO

Strong like the big ones

Pluggable electrical installations

in mini-format

0660.1 gesis NRG

Docking whenever, whereever

Flat cable system

2 pole, 5 pole and 5+2 pole

0701.1 gesis FLEX

Room for the future.

Decentralized room automation modular - compact - pluggable

0404.1 Electronics with pay back

Decentralized building automation

with plug and play

Educational facilities

0408.1 smart Installation

Building a green future Pluggable, decentralized electrical installation

for sustainable building

0409.1 gesis RAN

Intelligent Deal

Custom distribution boxes for building automation solutions

Available directly from our download center on the Internet in PDF format; product information also in e-CAT at http://eshop.wieland-electric.com

Hotline, advice

Additional information

Technical support

Automation technology:

Phone: +49 951 9324-...

■ Safety technology safety -999 e-mail: safety@wieland-electric.com

■ interface: -995

Power supply, industrial Ethernet switches, timer relays, measuring and monitoring relays, coupling relays, analog modules, remote

surge protection, passive interfaces, remote power distribution **podis**®

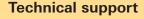
■ DIN rail terminal blocks *fasis*, *selos* -991 Industrial multipole connectors **revos** PCB terminals and connectors wiecon, appliance terminals, european terminal strips, housings for electronic components

Fax: +49 951 9326-991

E-mail: AT.TS@wieland-electric.com

Sales service:

■ To contact our sales department regarding availability, delivery schedules, and pricing please call Phone: +49 951 9324-990



Building services engineering:

Phone: +49 951 9324-...

■ System connectors for building installation gesis®, gesis® ran, gesis® electronic

■ DIN rail terminal blocks **fasis** BIT, **selos** BIT -991

+49 951 9326-996

E-mail: BIT.TS@wieland-electric.com

Technical support

Photovoltaics/solar technology:

Phone: +49 951 9324-...

■ Photovoltaics **gesis**® solar

-972

+49 951 9326-977

E-mail: Solar@wieland-electric.com

Additional information for pluggable installation:

gesis CON

The Art of Plugging Part No. 0600.1 Part No. 0690.1 gesis IP+ (outdoor)

for remote electronic distribution units:

Part No. 0701.1 **aesis** FLEX Part No. 0408.1 smart installation Part No. 0409.1 *gesis* ran **Schools** Part No. 0404.1

Information about Wieland products in general:

Wieland product overview Part No. 0902.0

General information and news: www.wieland-electric.com Visit our eCAT at

http://eshop.wieland-electric.com





Our subsidiaries

... and the addresses of our representations worldwide are available at:

www.wieland-electric.com



USA Wieland Electric Inc. North American Headquarters

2889 Brighton Road Oakville, Ontario L6H 6C9 Phone +1 905 8298414 +1 905 8298413 Fax www.wielandinc.com



CANADA Wieland Electric Inc. North American Headquarters

2889 Brighton Road Oakville, Ontario L6H 6C9 Phone +1 905 8298414 +1 905 8298413 Fax info@wieland-electric.ca



GREAT BRITAIN Wieland Electric Ltd.

Riverside Business Centre, Walnut Tree Close Guildford, Surrey, GU1 4UG, UK Phone +44 1483 531213 +44 1483 505029 Fax sales.uk@wieland-electric.com



FRANCE Wieland Electric SARL.

Le Céramê Hall 6 47, avenue des Genottes CS 48313 95803 Cergy-Pontoise Cedex Phone +33 1-30320707 +33 1 30320714 infos.adv@wieland-electric.com



SPAIN Wieland Electric S.L.

C/ Maria Auxiliadora 2 bajos E-08017 Barcelona Phone +34 93 2523820 +34 93 2523825 ventas@wieland-electric.com



ITALY Wieland Electric S.r.l.

Via Edison, 209 I-20019 Settimo Milanese Phone +39 02 48916357 +39 02 48920685 info.italy@wieland-electric.com



POLAND Wieland Electric Sp. Zo.o.

Św. Antoniego 8 62-080 Swadzim Phone +48 61 2225400 +48 61 8407166 office@wieland-electric.pl



CHINA Wieland Electric Trading

Unit 2703 International Soho City 889 Renmin Rd., Huang Pu District PRC- Shanghai 200010 Phone +86 21 63555833 +86 21 63550090 info-shanghai@wieland-electric.com



DENMARK Wieland Electric A/S

Vallørækken 26 DK-4600 Køge Phone +45 70 266635 Fax +45 70 266637 sales.denmark@wielandelectric.com



BELGIUM

B-2830 Willebroek Phone +32 3 8661800 +32 3 8661828 info.belgium@wieland-electric.com







Informational material available to order and download from our websites



Headquarters:

Wieland Electric GmbH Brennerstraße 10 – 14 96052 Bamberg, Germany

Sales Center: Wieland Electric GmbH Benzstraße 9 96052 Bamberg, Germany

Phone +49 951 9324-0 Fax +49 951 9324-198 www.wieland-electric.com www.gesis.com info@wieland-electric.com

Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
 - Screw, tension spring or push-in connection technology
 - Wire cross-sections up to 240 mm²
 - Numerous special functions
 - Software solutions interfacing to CAE systems
- Safety
 - Safe signal acquisition
 - Safety switching devices
 - Modular safety modules
 - Compact safety controllers
 - Application consulting and training
- Network engineering and fieldbus systems
 - Remote maintenance via VPN industrial router and VPN service portal
 - Industrial Ethernet switches
 - PLC and I/O systems, standard and increased environmental conditions
- Interface
 - Power supply units
 - Overvoltage protection
 - Coupling relays, semiconductor switches
 - Timer relays, measuring and monitoring relays
 - Analog coupling and converter modules
 - Passive interfaces

Solutions for field applications

- Decentralized installation and automation technology
 - Electrical installation for wind tower
 - Fieldbus interfaces and motor starters
- Connectors for industrial applications
- Rectangular and round connectors
- Aluminum or plastic housings
- Degree of protection up to IP68
- Current-carrying capacity up to 100A
- Connectors for hazardous areas
- Modular, application-specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
 - Main power supply connectors IP 20/IP 65 ... IP 68
 - Bus connectors
 - Low-voltage connectors
 - Power distribution system with flat cables
 - Distribution systems
 - Bus systems in KNX, LON and wireless technology
 - DIN rail terminal blocks for electrical installations
 - Overvoltage protection

contacts are green. 0700.1 C 09/13