



# gamma

GAMMA Building Controls



Electrical Installation from A to Z

**SIEMENS**

# Catalogs for the division: Electrical Installation Technology

## ALPHA Distribution Boards and Terminal Blocks

### ALPHA Small Distribution Boards ET A1 and Distribution Boards

Order No.:  
E86060-K8210-A101-A6-7600



### Identification codes for fast orientation

New products not contained in the previous catalogs

### Ordering

Order nos., prices and weights generally apply to the same quantity:

- Units
- Set or
- Package

The package size (abbreviated as PS) specifies the minimum quantity of a product to be ordered. You can order this quantity or a multiple thereof. The packing unit (abbreviated as P.unit) specifies the number of units, sets or packages in a master carton.

### Export regulations

The products listed in this catalog/price list may be subject to European/German and/or US export regulations.

Therefore, any export requiring a license is subject to approval by the competent authorities. According to current provisions, the following export regulations must be observed with respect to the products featured in this catalog/price list:

## BETA Modular Installation Devices

### ET B1

Order No.:  
E86060-K8220-A101-A7-7600



### Technical Information

### ET B1 T

Order No.:  
E86060-K8229-A101-A7-7600 (pdf only)



## GAMMA Building Management Systems

### ET G1

Order No.:  
E86060-K8230-A101-A6-7600



## DELTA Switches and Socket Outlets

### ET D1

Order No.:  
E86060-K8240-A101-A6-7600



## The A&D Offline Mall

### CA 01

Order No.:  
E86060-D4001-A110-C4-7600 (CD-ROM)  
E86060-D4001-A510-C4-7600 (DVD)



AL Number of the German Export List  
Products marked other than "N" require an export license.  
In the case of software products, the export designations of the relevant data medium must also be generally adhered to.

Goods labeled with an "AL not equal to N" are subject to a European or German export authorization when being exported outside the EU.

ECCN Number of the US Export List (Export Control Classification Number).

Products marked other than "N" are subject to a reexport license in specific countries.

In the case of software products, the export designations of the relevant data medium must also be generally adhered to.

Goods labeled "ECCN not equal to N" are subject to US re-export authorization.

Even without a label, or with an "AL: N" or "ECCN: N" authorization may be required due to the final destination and purpose for which the goods are to be used.

The deciding factors are the AL or ECCN export authorization indicated on order confirmations, delivery notes and invoices.

Errors excepted and subject to change without prior notice.

## Internet

Visit our Automation and Drives Web site on the Internet. You will find us at the following addresses

- Automation and Drives:  
<http://www.siemens.com/automation>
- Electrical Installation Technology:  
<http://www.siemens.com/e-installation>
- for the A&D Mall:  
<http://www.siemens.com/automation/mall>

# GAMMA

## Building Controls

### Catalog ET G1 INT · 2006

(International Edition)

Invalid: Catalog ET G1 · 2005



The products contained in this catalog are also included in the Offline Mall CA 01  
Order No.  
E86060-D4001-A110-C4-7600 (CD-ROM)  
E86060-D4001-A510-C4-7600 (DVD)

instabus

#### Display, Operation

Pushbuttons, Multifunction Pushbuttons, Pushbutton Accessories, Displays, Touch panels, Remote controls, Visualization

#### Output Devices

Analog output devices, Binary output devices, Switchable outlets

#### Input Devices

Analog input devices, Binary input devices

#### Input/Output Devices

Universal I/O module, Application specific modules

#### Devices for Special Applications

Lighting, Sun/Anti-Glare Protection, Utilization of Daylight, Heating, Cooling, Ventilation, Air Conditioning, Load Management, Safety, Quick-Assembly System

#### Gateways, Interfaces

RS232, USB, IR, DALI, Ethernet, RF, ISDN, PROFIBUS DP, Telephone a/b, LOGO!

#### Physical Sensors

Motion/presence, Brightness, Temperature, Sensor combinations

#### Control and Automation Devices

Programmable logic controllers, Logic modules, Scene modules, Time/event modules, Time switches and accessories

#### System Products

Bus coupling units, Power supply units, Chokes, Line/backbone couplers, Network couplers

#### System Accessories

Cover strips, Bus terminals, Data rails, Overvoltage protection

#### Meters, Counters

Operating hours/pulse counters, Electrical energy meters

wave

#### wave

Display, Operation, Output Devices, Input Devices, Devices for Special Applications, Gateways, Interface Converters, System Products

#### Appendix

Ordering notes, Siemens Contacts Worldwide, A&D-Online Services, Customer Support, Subject index, Order number index, Terms and conditions of sale and delivery, Export regulations



The products and systems listed in this catalog are manufactured using a quality management system certified by BVQI according to EN ISO 9001:2000-12 (Certificate No. 117779).

## Welcome to Automation and Drives

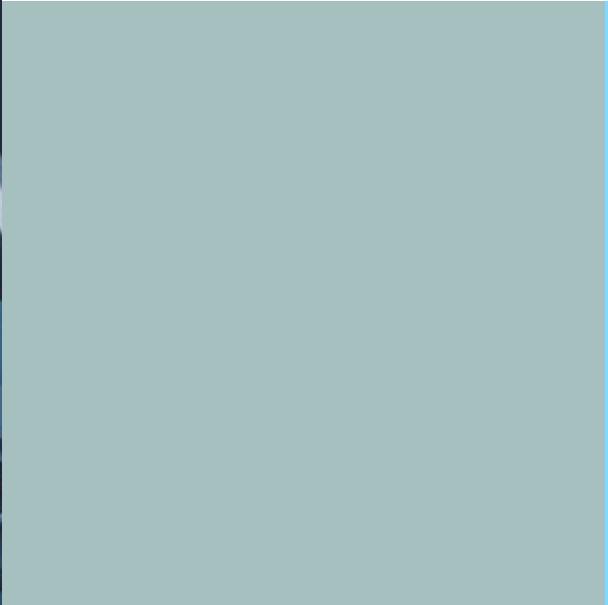


We would like to welcome you to Automation and Drives and our comprehensive range of products, systems, solutions and services for production and process automation and building technology worldwide.

With Totally Integrated Automation and Totally Integrated Power, we deliver solution platforms based on standards that offer you a considerable savings potential.

Discover the world of our technology now. If you need more detailed information, please contact one of your regional Siemens partners.

They will be glad to assist you.

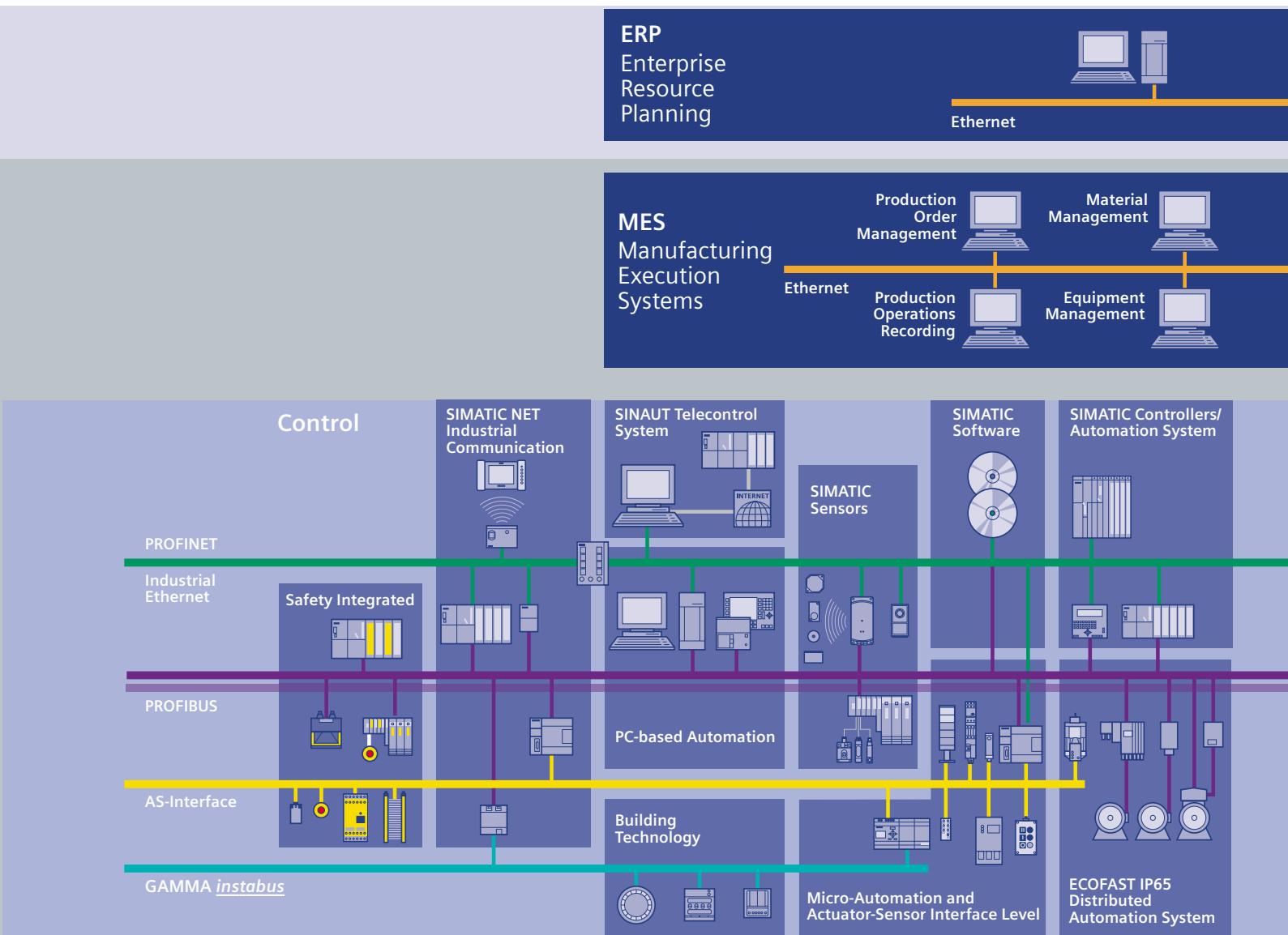


# Totally Integrated Automation – innovations for more productivity

With the launch of Totally Integrated Automation, we were the first ones on the market to consistently implement the trend from equipment to an integrated automation solution, and have continuously improved the system ever since.

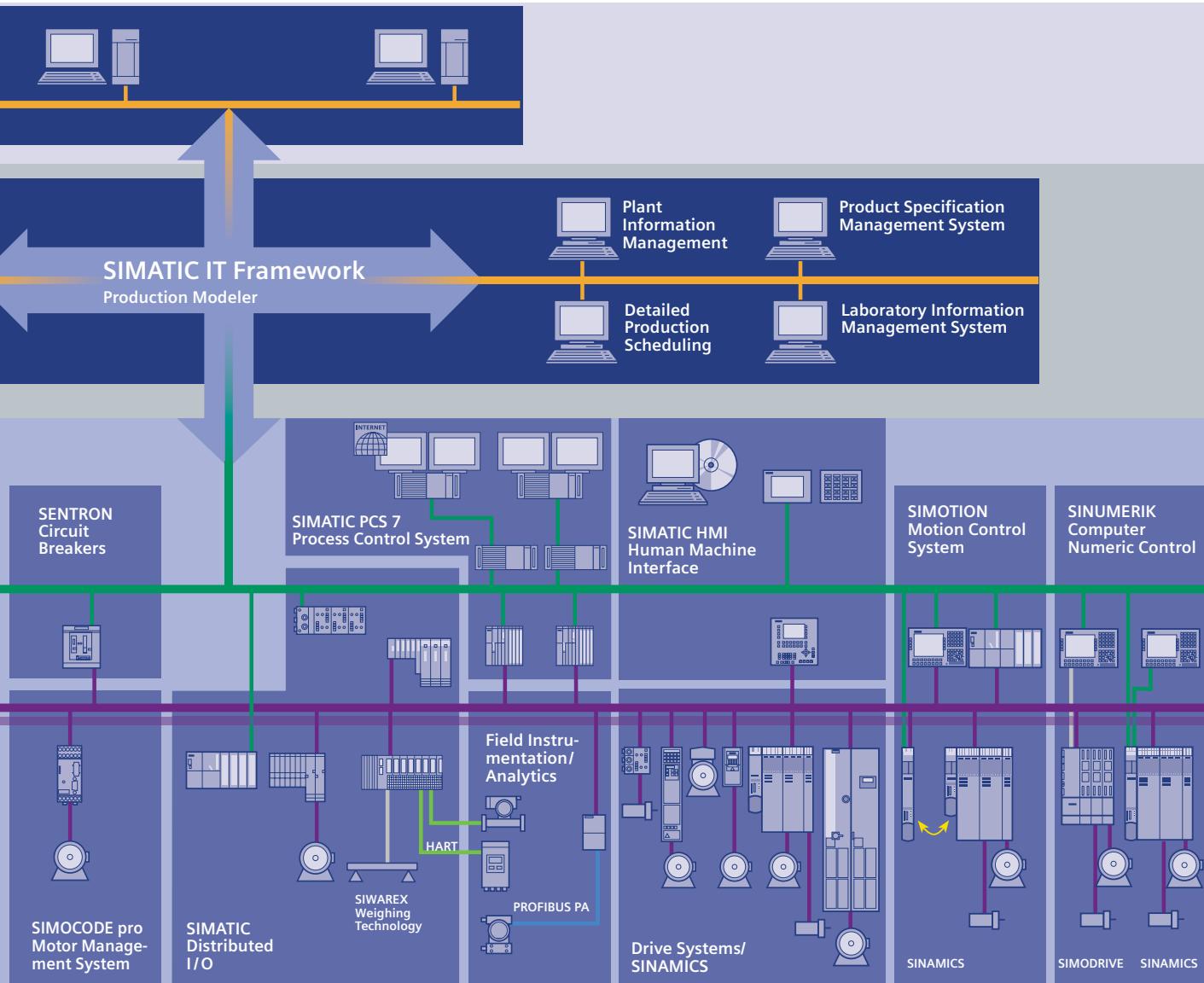
Whether your industry is process- and production-oriented or a hybrid, Totally Integrated Automation is a unique "common solution" platform that covers all the sectors.

Totally Integrated Automation is an integrated platform for the entire production line - from receiving to technical processing



and production areas to shipping. Thanks to the system-oriented engineering environment, integrated, open communications as well as intelligent diagnostics options, your plant now benefits in every phase of the life cycle.

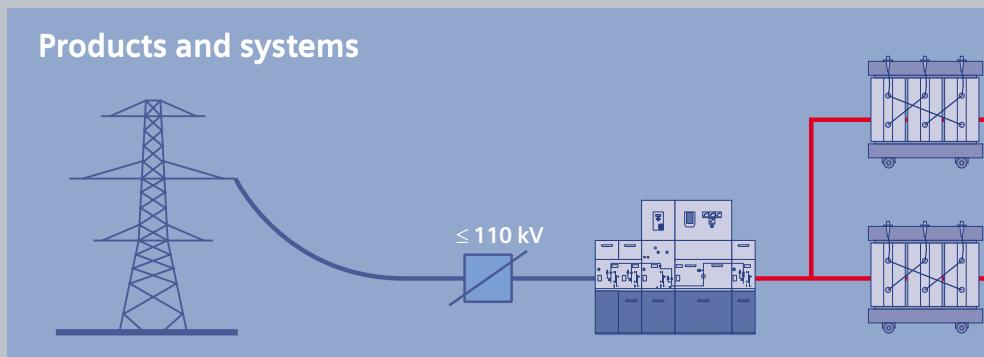
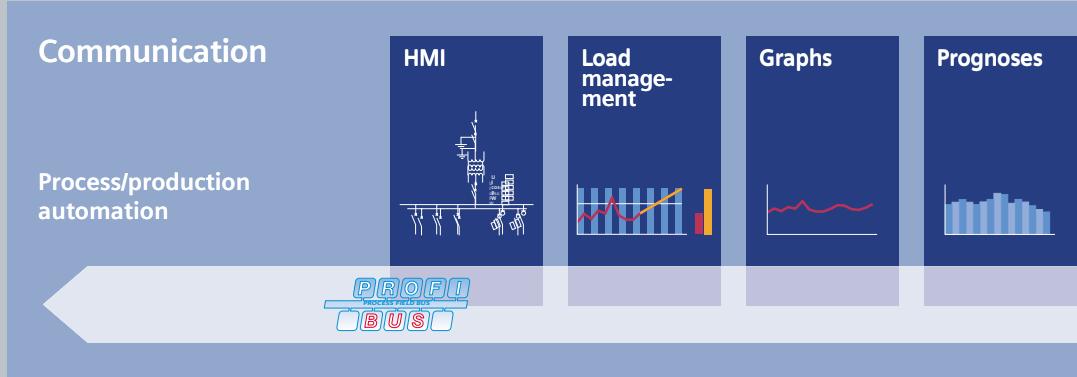
In fact, to this day we are the only company worldwide that can offer a control system based on an integrated platform for both the production and process industry.

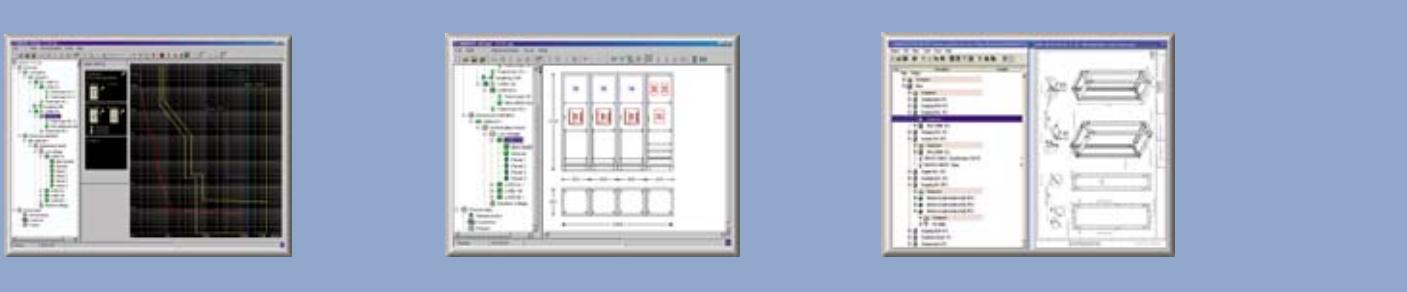
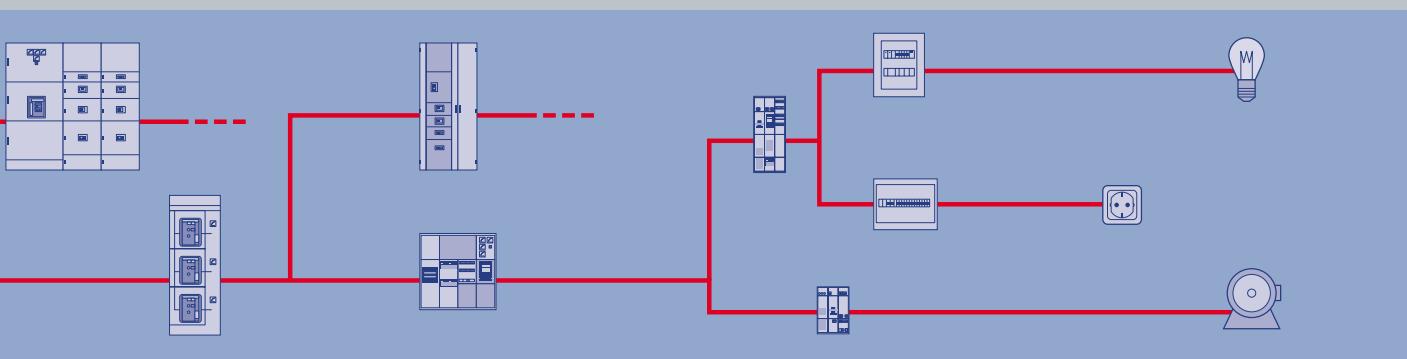
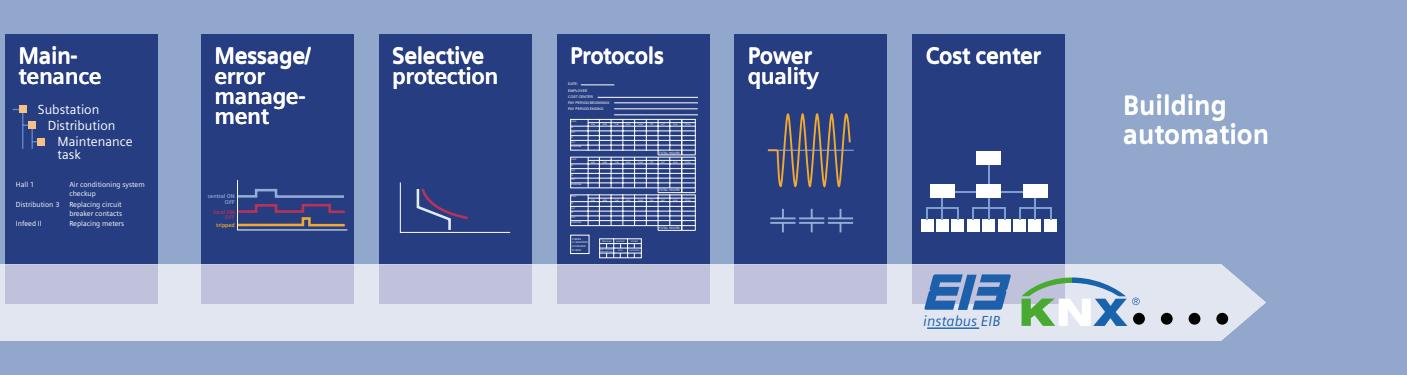


# Totally Integrated Power – integrated power distribution from one source

Totally Integrated Power by Siemens offers integrated solutions for power distribution in commercial, institutional and industrial buildings ranging from medium voltage to the wall outlet.

Totally Integrated Power is based on the integration in planning and configuration as well as on interface-optimized products and systems. In addition, it features communication and software modules for interfacing power distribution systems to industrial automation and building automation, thus offering a substantial savings potential.







#### **ALPHA distribution boards and terminal blocks**

Our comprehensive range of ALPHA distribution boards and terminal blocks provides all the components you need for fast and safe power distribution – small distribution boards, meter cabinets, as well as wall- and floor-mounted distribution boards – and all up to 630 A.



#### **BETA modular installation devices**

Whether for protection, switching or control functions – BETA modular installation devices offer an optimally consistent product range. This ensures maximum flexibility, convenience and safety – from the main distribution system to the end user.



#### **GAMMA building controls**

Thanks to intelligent building controls with GAMMA *instabus*, you can increase safety and improve comfort – and save energy at the same time. The GAMMA *instabus* two-wire cable or GAMMA wave radio frequency system allow convenient state-of-the-art control of virtually any electrical function in non-residential and residential buildings. While the control of lighting and shutters/blinds are classic examples of such functions, the extreme flexibility of GAMMA *instabus* and GAMMA wave now open up a whole new world of options.



#### **DELTA switches and outlets**

The DELTA switch and outlet range combines a wide range of different design interfaces with innovative and safe technology. And because the operator interfaces are simple to interchange, you can enjoy complete safety – even when your taste or the environment changes.

# A to Z

## Siemens electrical installation: the world of electrical installation technology

These days, it's hard to imagine daily life without electricity. Modern electrical switching and installation technology is an essential requirement for ensuring that our use of electricity is safe and user-friendly.

### Innovative from the outset

The Siemens electrical installation technology group has been working in this sector for more than 110 years and we are constantly developing new products – innovations, which make the use of electricity increasingly safer and more cost effective. Ideal for residential, non-residential or industrial buildings. In accordance with all internationally valid regulations and standards. Using new technologies, such as *instabus EIB*, we have opened up new horizons in the area of private housing. In addition, we are also building bridges between factory automation and building management in the industrial and non-residential building sector.



### Quality you can rely on

All our products are subject to the most rigorous quality specifications during production and testing. And we ensure strict compliance with these specifications in order to offer our customers nothing but the very best. Our numerous certificates are further confirmation of our endeavors in this respect.

The quality of a product is largely determined in its development phase.

From the very outset, reliability demands and the accompanying quality assurance measures are defined and incorporated in the design. The first quality inspections are already run on the pilot and test series.

### GAMMA building controls offer solutions in all areas:



Industrial buildings



Commercial buildings



Residential buildings

# Electrical installations from Regensburg and across the globe

## Our factory in Regensburg

The Regensburg device factory is now one of the world's leading manufacturers of installation devices and systems. Since it was founded in 1948 it has become one of the largest employers of the region and currently boasts a staff of around 1,500 employees. Development is carried out using cutting-edge tools such as CAD, simulation and automated laboratory equipment. It goes without saying that our devices offer complete electromagnetic compatibility as the proportion of electronic devices in electrical installation technology is constantly on the increase. This is particularly noticeable in building controls.

Our products are subject to the harshest conditions: the technology used is tried and tested and ensures complete functional reliability. Circuit-breakers must comply with national and international regulations. During testing, our devices are subjected to considerably higher demands than those defined in the regulations. For our customers, this means rugged and long-lasting devices that provide maximum reliability and ease of operation.

## Environment-friendly products

In order to preserve our natural resources, the protection of our natural environment has become a crucial task. For this reason we feel we have an obligation to preserve the environment as best we can and use natural resources sparingly.

An environment-friendly product design is an elementary and integral part of product development at A&D ET. This covers all phases of a product's life, beginning with the selection of materials with the lowest possible emission levels, through resource-friendly usage, to the development of suitable recycling strategies. Moreover, integration of the suppliers and the appropriate marketing tools are also aspects of an environment-friendly product design.





#### Branches worldwide

The products developed here are manufactured not just in Regensburg but worldwide in our factories. These products (and systems) prove their high performance, quality and reliability on a daily basis.

# Services

## Always up-to-date – high quality training

Knowledge is the key to success: our seminars help you create the basis for a successful business.

In our modern training center in Regensburg – the first one to be certified by EIBA – or at a range of other locations, our expert training staff will help you acquire the necessary theoretical and practical know-how to succeed. Clearly structured and with multimedia teaching tools. Available in German and English. Step-by-step, you will be familiarized with GAMMA *instabus* applications – from configuration, commissioning and assembly, through to the implementation of sophisticated customer solutions.

Please note: our seminars cover all levels and are designed to meet all requirements. From PC beginner courses through to special courses for *instabus* experts. Our individual support guarantees a successful seminar: the courses are for a limited number of participants and optimum attention is paid to your individual requirements – for maximum success and a minimum investment of your valuable time. If required, we can also hold in-house courses at your company's premises.

Please do not hesitate to contact us.

*Tel.: +49 (0)941 790 2950*



Training and sales advice

### Save time with planning aids

Whether you are an installation engineer, planner or switchgear engineer – we have tools that help you plan the layout of your distribution boards and meter cabinets. And that gives you more time to spend on other projects.



ALPHA configuration software

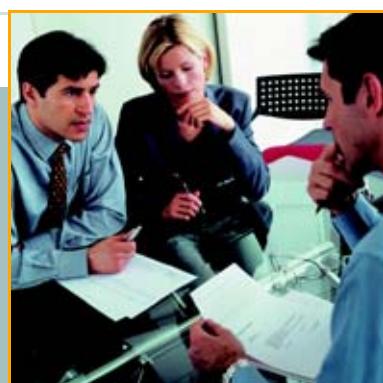
### Comprehensive service and support

You can rely on Siemens technology – as well as on our services and support. We offer assistance in all matters: from the planning of your electrical installation technology, to training, to marketing, advertising and public relations.

*Tel.: +49 (0)911 895 5900*

*Fax: +49 (0)911 895 5907*

*E-Mail:  
technical-assistance@siemens.com*



Personal support

### Information material and contacts

If you require any further information, we have a wide range of information material for you and your customers: an overview of our versatile switches and outlets, our building controls and our modular installation devices and distribution boards. If you have any queries, requirements or suggestions: just call.

*Tel.: +49 (0)911 895 5900*

*Fax: +49 (0)911 895 5907*

*E-Mail:  
technical-assistance@siemens.com*  
[www.siemens.com/e-installation](http://www.siemens.com/e-installation)



Comprehensive information material for you and your customers

Small things can  
quickly grow into something big. ■

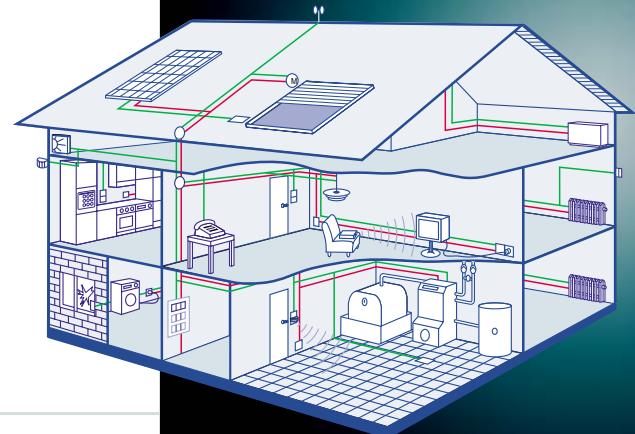


G



## GAMMA building controls

Innovative electrical installations  
designed for today and the future



# AMMA

# ■ The GAMMA range at a glance

## GAMMA instabus



### Sensors

- Binary input devices
- Dusk switches
- Weather stations
- Time switches, time sources
- Brightness sensors
- Multisensors
- Controllers, sensors, guards
- Input/output devices (sensors/actuators)



### Actuators

- Binary output devices
- Load switches
- Shutter/blind actuators
- Dimmers
- Switch/dim actuators
- Heating valve actuators
- Input/output devices (sensors/actuators)



### System components

- Bus coupling units
- Interfaces
- Power supply units, chokes
- Line/backbone couplers



### Controllers

- Controllers
- Peak load limiter



### Operator panels

- Touch panels



### Software

- Visualization



### Gateways



### GAMMA wave

- Radio frequency sensors, actuators and operator panels

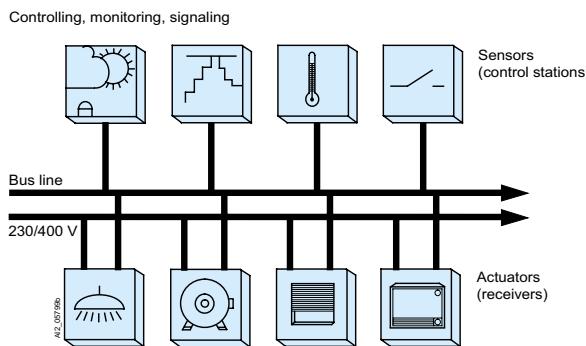
## GAMMA building controls

You can now enjoy more security and comfort and cut your energy bill at the same time – by using intelligent building controls with GAMMA instabus. Very nearly all electrical functions can be controlled by modern means using the two-

wire cable of GAMMA instabus.

The control of lighting and shutters are classic examples of such functions. However, GAMMA instabus is extremely flexible and also offers much more.

### Overview



### General information

Ever increasing demands regarding the flexibility and convenience of electrical installations, combined with the demand to minimize energy requirements, have led to the development of building controls. The bus technology used in these systems is based on a common European concept, the European Installation Bus (KNX EIB). Numerous manufacturers have joined forces in the European Installation Bus Association (EIBA).

The member companies of the EIBA ensure the availability of bus-compatible products. This has made it possible for devices from various manufacturers to be used in a single KNX EIB plant.

Demand for more convenience and additional technical possibilities means that more and more time and effort is being spent on electrical installations. Conventional electrical installation technology has reached the limits of its capabilities. However, *instabus* KNX EIB has made it possible to satisfy these comprehensive demands with solutions that are both easy to manage and cost-effective.

### System arguments

In conventional electrical installations, each function needs its own cable and each control system a separate network. However, with *instabus* KNX EIB all operational functions and processes can be controlled, monitored and signaled using a single shared cable. This means that the energy feeder can be routed directly to consumers without any detours.

While this cuts down on cables of course, it also has other huge advantages: not only are electrical installations in buildings far simpler to install, but it is also easy to add any subsequent extensions and make modifications. If the purpose or configuration of a building is changed, the *instabus* KNX EIB system is easy to adapt by simply reassigning the various bus devices (changing their parameters), without the need to lay any new cables.

These parameters can be reassigned using a PC connected to the *instabus* KNX EIB system and the configuration and commissioning software ETS (Engineering Tool Software). This software is also used for commissioning.

With the right interfaces, *instabus* KNX EIB can also be connected to the control centers of other building management and automation systems (e.g. SICLIMAT X) or to a public telephone network (e.g. ISDN). It is therefore just as cost-effective to use the *instabus* KNX EIB in the family home as in hotels, schools, banks, office buildings or complex non-residential buildings.

### Transmission technology

*instabus* KNX EIB is a distributed, event-controlled bus system featuring serial data transmission for the controlling, monitoring and signaling of operational functions.

All the connected bus devices can exchange data over a common transmission path, the bus. Data is transmitted in serial mode and in compliance with exactly defined rules (the bus protocol). The data to be transmitted is packed into a telegram and sent over the bus from a sensor (the command output) to one or more actuators (the command receiver).

Each recipient acknowledges the receipt of the telegram when the transmission is successful. If no acknowledgment is issued, the transmission is repeated up to three times. If the telegram is still not acknowledged, the send operation is aborted and the error noted in the memory of the transmitter.

Transmission of data on the *instabus* KNX EIB is not electrically isolated as the power supply for the bus devices (24 V DC) is also transmitted. The telegrams are modulated on this direct voltage, whereby a logic Zero is transmitted as a pulse. The omission of a pulse is interpreted to mean a logic One.

The individual data of the telegrams are transmitted in asynchronous mode. However, transmission is synchronized by start and stop bits.

Access to the bus as the shared physical medium of communication for asynchronous transmission has to be controlled in unique terms. In the case of *instabus* KNX EIB, the CSMA/CA procedure is used for this purpose. The CSMA/CA procedure guarantees random collision-free access to the bus without any reduction of bus data throughput.

All stations listen in but only those actuators actual addressed respond. If a station wants to transmit, it first has to listen in and wait until no other station is transmitting (**Carrier Sense**). When the bus is unoccupied, basically any station can begin a transmission operation (**Multiple Access**).

If two stations begin to transmit simultaneously, the higher-priority station asserts itself on the bus without any delay (**Collision Avoidance**) while the other station pulls back and restarts the transmission operation some time later.

If the two stations have an identical level of priority, the one with the smaller physical address asserts itself.

# Introduction

## General data

### Addressing

Every letter needs an address in order for it to be correctly delivered by the postal service. The addressing of bus devices is similar, but the form used for postal purposes is unsuitable in this case.

During configuration with the ETS, each bus device is assigned its own physical address with which it can be uniquely identified; just like a postal address is a unique ID for the recipient of a letter. However, the physical address has to be expressed in the language of the bus and is based on the topological structure of the *instabus* KNX EIB system.

Physical addressing is used by the ETS only for commissioning the individual bus devices or for servicing and diagnostics activities. In this case the addressing is performed along the same lines as for the postal delivery service.

By contrast, the *instabus* KNX EIB system uses a different address for telegram traffic: the logical or so-called group address. This address is not based on the bus topology but on the operational functions (applications) of the *instabus* KNX EIB system.

Unlike the postal service, which delivers a letter to the recipient's address, the configured group address is written into each telegram sent by the transmitter. Every bus device listens to this telegram, reads the group address contained in it, and checks whether the telegram is addressed to it or not.

The group addresses to which a bus device should respond are assigned during configuration of the *instabus* KNX EIB system using ETS. Unlike the postal delivery service, several group addresses can be assigned to one bus device.

When a bus device is listening to a telegram on the bus, it will always receive the telegram if it responds to the group address entered in the telegram (and the transmission was successful). If not, it will discard the telegram as not being intended for it.

### Topology

Up to 64 bus-compatible devices (stations) can be connected to and operated on the smallest unit of the *instabus* KNX EIB system, i.e. on a single line. Using line couplers connected to the so-called main line it is possible to bundle up to 15 lines in an area.

15 areas can be joined together by means of backbone couplers, which are connected to the so-called backbone lines, in order to form a larger unit.

Interfaces (gateways) to third-party systems (SICLIMAT X, ISDN etc.), or additional KNX EIB systems are connected to the backbone line.

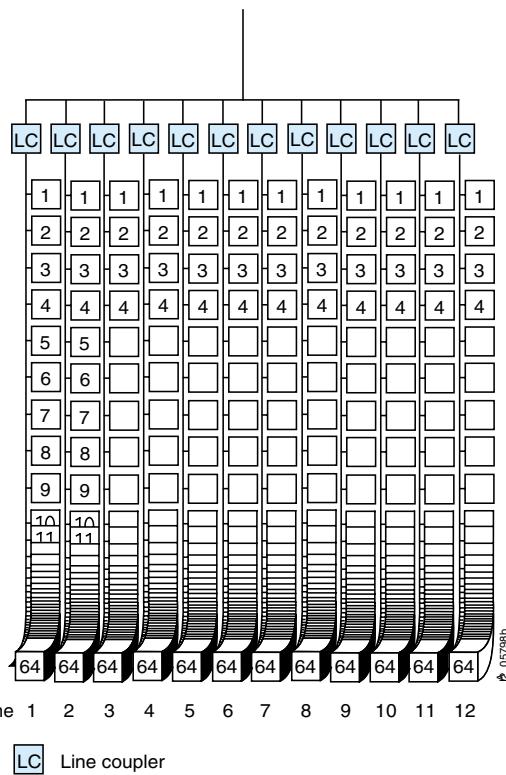
Although more than 12,000 devices can be interconnected in a *instabus* network, the clear-cut logic of the system is preserved. During operation there is no information chaos whatsoever because telegrams only ever overstep the interfaces to other lines and function areas when the areas contain devices which respond to the group address. The necessary filter function is performed in this case by the line/backbone couplers.

The physical address is based on this topological structure: Every device can be uniquely identified by specification of its area, line and device number. For assignment of the devices to the operational functions the group addresses are divided into main groups and subgroups.

During configuration it is possible to divide the group addresses for different management functions into as many as 14 main groups, e.g. for

- Lighting control
- Shutter/blind control
- Room control for heating, ventilation, air conditioning.

Each main group can include as many as 2048 subgroups, to suit the user's requirements. The group addresses are assigned to the devices independently of the physical address. Each device is thus able to communicate with every other one.



## General data

### Technology

Each line needs its own power supply unit for the devices. This ensures that, even in the event of line failure, the rest of the *instabus* KNX EIB system is still fully functional.

The power supply unit supplies the individual devices on the line with SELV (safety extra-low voltage) of 24 V DC and, depending on the version, can be loaded with 160 mA, 320 mA or 640 mA. It features both voltage and current limiting and is therefore short-circuit resistant. Short system interruptions are jumped with a buffer period of 100 ms.

The bus load depends on the type of devices connected. The devices are ready for operation at a minimum of up to 21 V DC and typically draw 150 mW from the bus, or up to 200 mW when there is an additional demand for current on the terminal device (e.g. LEDs). If more than 30 devices are installed over short cable distances (e.g. in a distribution board), the power supply unit will have to be arranged nearby.

A maximum of two power supply units are permissible in one line. A minimum distance of 200 m (cable length) has to be observed between the two power supply units.

In the event of an increase in power requirements, two power supply units can also be connected to the *instabus* KNX EIB in parallel over a shared choke.

The length of a line plus all junctions must not exceed 1000 m. The distance between a power supply unit and a device must not exceed 350 m. To be able to guarantee no telegram collisions, the distance between two devices is limited to a maximum 700 m.

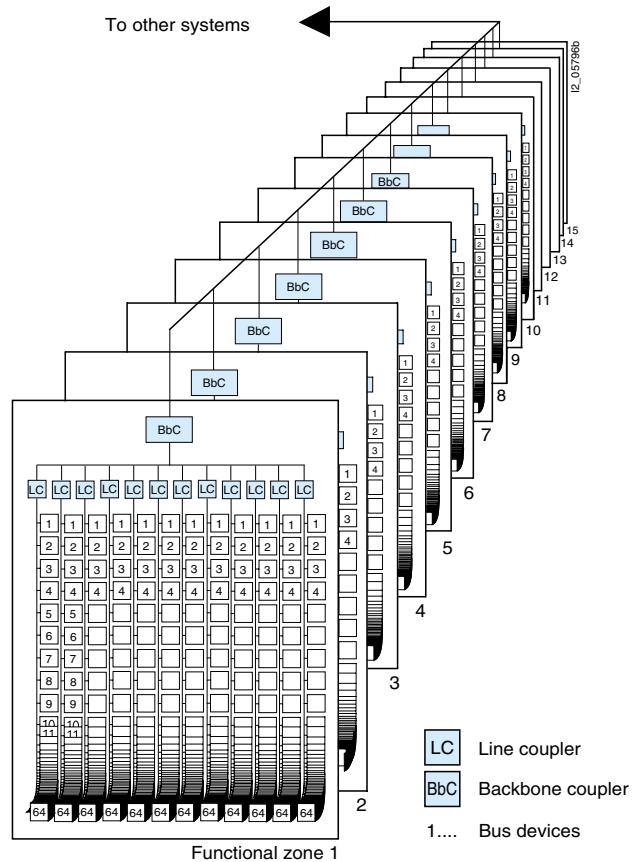
The bus cable can be laid parallel to the mains cable. It can be looped and branched. A cable terminating resistor is not required. The devices are connected to the bus by means of either pressure contact or bus terminals. Connection by means of pressure contact is effected by snap-fitting the devices (designed for installation in distribution boards) on to the mounting rail (EN 50022-35 mm x 7.5 mm) with integrated data rail. Transition from the data rail to the bus cable is effected by a connector. Connecting the bus cable to surface-mounting, flush-mounting, wall-mounting, ceiling-mounting and built-in devices is effected by plugging on the bus terminal.

### Devices

Each device basically comprises a universal **Bus Coupling Unit** (BCU) and a task-specific **Bus Terminal** (BT), which exchanges information with the BCU over the **Physical External Interface** (PEI). The BCU receives telegrams from the bus, decodes them and actuates the BT. Conversely, the BT sends information to the BCU, which encodes it and sends it as a telegram onto the bus.

The ROM contains the system-specific software that cannot be changed by the user. The parameterization data for the function of the BCU to be performed are saved by the ETS in the EEPROM. The current data are saved by the MP in the RAM.

The assignment of the PEI pins differs on the various BTs. Therefore, a BT connected through the PEI is able to communicate error-free with the BCU only when an accordingly prepared application program was loaded by ETS in the non-volatile memory of the BCU.



# Introduction

## General data

### Technical specifications

#### System data

<b>Bus cables</b>		
Cable type	mm <sup>2</sup>	YCYM 2 × 2 × 0.8 one core pair (red, black) for signal transmission and power supply, one core pair (yellow, white) for additional applications (SELV or voice)
Cable installation		flush mounting, semi-flush mounting, surface mounting
Cable lengths of one line (core diameter: 0.8 mm)	m	max. 1 000 (including all junctions)
• Length between two bus devices	m	max. 700
• Length between bus device and power supply unit (320 mA)/choke	m	max. 350, side-by-side mounting necessary (on mounting rail with integrated data rail)
• Length between power supply unit (320 mA) and choke	m	

#### Bus devices

Number of areas	max. 15
Number of lines per area	max. 15
Number of bus devices per line	max. 64 (252 with repeaters)

#### Topology

<b>Power supply</b>		
System power supply	V DC	24 (SELV safety extra-low voltage)
Power supply units per line		1 power supply unit (320 mA) and 1 choke or 1 power supply unit with integrated choke (640 mA)

Power supply units per line for high current demand		max. 2 power supply units at least 200 m apart
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#### Transmission

Transmission technology		distributed, event-controlled, serial, symmetric
Baud rate	bit/s	9600

#### Device features (unless otherwise specified)

<b>Degree of protection according to EN 60529</b>	IP20	
<b>Protective measure</b>	bus: safety extra-low voltage SELV 24 V DC	
<b>Overvoltage category</b>	III	
<b>Rated insulation voltage <math>U_i</math></b>	V	250
<b>Degree of pollution</b>		2
<b>EMC requirements</b>		compliant with EN 50081-1 and prEN 50082-2 (severity 3), EN 50090-2-2, KNX EIB Manual
<b>Resistance to climate</b>		EN 50090-2-2, KNX EIB Manual
<b>Operating conditions</b>		
Area of operation		for fixed installation indoors, for dry rooms, for installation in heavy-current distribution boards
Ambient temperature in operation	°C	-5 to +45
Humidity in operation	%	max. 93
Storage temperature	°C	-40 to +55
Humidity in storage	%	max. 93
<b>Certification</b>		KNX EIB-certified
<b>CE marking</b>		compliant with EMC Directive (residential and non-residential buildings), Low Voltage Directive

<b>Pushbuttons</b>	1/2	
<b>Multifunction Pushbuttons</b>	1/8	Pushbuttons with IR receiver
	1/10	Pushbuttons with room temperature controller
	1/11	Pushbuttons with motion detector
<b>Pushbutton Accessories</b>	1/12	Pictographs
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# Display, Operation

## Pushbuttons

### Selection and ordering data

		Order No.	Price	PS*/	PG	Weight per unit
				P. unit		
				1 unit	Unit(s)	kg
<b>DELTA i-system</b>						
	<b>UP 22x pushbuttons</b> with horizontal operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, save and recall of 1-bit and 8-bit scenes, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one yellow LED as orientation light, with wide labeling field, for clipping onto a UP 110 or UP 114 bus coupling unit. The UP 110 or UP 114 bus coupling unit and the respective frame in design DELTA line, DELTA vita or DELTA miro must be ordered separately. Dimensions (HxWxD): 55 x 55 x 11 mm					
	<b>UP 221 pushbutton, single, neutral</b> with one pushbutton pair. <ul style="list-style-type: none"><li>• electrical white</li><li>• titanium white</li><li>• carbon metallic</li><li>• aluminum metallic</li></ul>	<b>5WG1 221-2AB01</b> <b>5WG1 221-2AB11</b> <b>5WG1 221-2AB21</b> <b>5WG1 221-2AB31</b>	1 1 1 1	030 030 030 030	0.025 0.025 0.025 0.025	
	<b>UP 222 pushbutton, double, neutral</b> with two pushbutton pairs. <ul style="list-style-type: none"><li>• electrical white</li><li>• titanium white</li><li>• carbon metallic</li><li>• aluminum metallic</li></ul>	<b>5WG1 222-2AB01</b> <b>5WG1 222-2AB11</b> <b>5WG1 222-2AB21</b> <b>5WG1 222-2AB31</b>	1 1 1 1	030 030 030 030	0.025 0.025 0.025 0.025	
	<b>UP 223 pushbutton, triple, neutral</b> with three pushbutton pairs. <ul style="list-style-type: none"><li>• electrical white</li><li>• titanium white</li><li>• carbon metallic</li><li>• aluminum metallic</li></ul>	<b>5WG1 223-2AB01</b> <b>5WG1 223-2AB11</b> <b>5WG1 223-2AB21</b> <b>5WG1 223-2AB31</b>	1 1 1 1	030 030 030 030	0.025 0.025 0.025 0.025	
	<b>UP 221E pushbutton, single, neutral, with status LED</b> with one pushbutton pair and one red LED for status indication. <ul style="list-style-type: none"><li>• electrical white</li><li>• titanium white</li><li>• carbon metallic</li><li>• aluminum metallic</li></ul>	<b>5WG1 221-2EB01</b> <b>5WG1 221-2EB11</b> <b>5WG1 221-2EB21</b> <b>5WG1 221-2EB31</b>	1 1 1 1	030 030 030 030	0.025 0.025 0.025 0.025	
	<b>UP 222E pushbutton, double, neutral, with status LED</b> with two pushbutton pairs and two red LEDs for status indication. <ul style="list-style-type: none"><li>• electrical white</li><li>• titanium white</li><li>• carbon metallic</li><li>• aluminum metallic</li></ul>	<b>5WG1 222-2EB01</b> <b>5WG1 222-2EB11</b> <b>5WG1 222-2EB21</b> <b>5WG1 222-2EB31</b>	1 1 1 1	030 030 030 030	0.025 0.025 0.025 0.025	

## Pushbuttons

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>DELTA profil</b>					
<b>UP 24x pushbuttons</b> with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED as orientation light, with labeling field for the insertion of pictographs, for clipping onto a UP 110 or UP 114 bus coupling unit. The UP 110 or UP 114 bus coupling unit and the respective cut-out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm					
	<b>UP 241 pushbutton, single, neutral</b> with one pushbutton pair and one red LED for status indication.	<b>5WG1 241-2AB01</b> <b>5WG1 241-2AB11</b> <b>5WG1 241-2AB21</b> <b>5WG1 241-2AB71</b>	1 1 1 1	030 030 030 030	0.036 0.036 0.036 0.036
	<b>UP 242 pushbutton, single, with I/O symbols</b> with one pushbutton pair and one red LED for status indication.	<b>5WG1 242-2AB01</b> <b>5WG1 242-2AB11</b> <b>5WG1 242-2AB21</b> <b>5WG1 242-2AB71</b>	1 1 1 1	030 030 030 030	0.036 0.036 0.036 0.036
	<b>UP 243 pushbutton, double, neutral</b> with two pushbutton pairs and two red LEDs for status indication.	<b>5WG1 243-2AB01</b> <b>5WG1 243-2AB11</b> <b>5WG1 243-2AB21</b> <b>5WG1 243-2AB71</b>	1 1 1 1	030 030 030 030	0.036 0.036 0.036 0.036
	<b>UP 244 pushbutton, double, with I/O symbols</b> with two pushbutton pairs and two red LEDs for status indication.	<b>5WG1 244-2AB01</b> <b>5WG1 244-2AB11</b> <b>5WG1 244-2AB21</b> <b>5WG1 244-2AB71</b>	1 1 1 1	030 030 030 030	0.036 0.036 0.036 0.036
	<b>UP 245 pushbutton, quadruple, neutral</b> with four pushbutton pairs and four red LEDs for status indication.	<b>5WG1 245-2AB01</b> <b>5WG1 245-2AB11</b> <b>5WG1 245-2AB21</b> <b>5WG1 245-2AB71</b>	1 1 1 1	030 030 030 030	0.036 0.036 0.036 0.036
	<b>UP 246 pushbutton, quadruple, with I/O symbols</b> with four pushbutton pairs and four red LEDs for status indication.	<b>5WG1 246-2AB01</b> <b>5WG1 246-2AB11</b> <b>5WG1 246-2AB21</b> <b>5WG1 246-2AB71</b>	1 1 1 1	030 030 030 030	0.036 0.036 0.036 0.036

\* You can order this quantity or a multiple thereof.

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# Display, Operation

## Pushbuttons

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
<b>DELTA style</b>						
	<b>UP 285, 286, 287 pushbuttons</b>					
	with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED as orientation light, with labeling field for the insertion of pictographs, for clipping onto a UP 110 or UP 114 bus coupling unit.					
	The UP 110 or UP 114 bus coupling unit and the respective frame must be ordered separately.					
	Dimensions (HxWxD): 68 x 68 x 14 mm					
	<b>UP 285 pushbutton, single, neutral</b>					
	with one pushbutton pair and one red LED for status indication.					
	• basalt black/metallic silver	<b>5WG1 285-2AB01</b>	1	030	0.036	
	• titanium white	<b>5WG1 285-2AB11</b>	1	030	0.036	
	• basalt black	<b>5WG1 285-2AB21</b>	1	030	0.036	
	• titanium white/metallic silver	<b>5WG1 285-2AB81</b>	1	030	0.036	
	<b>UP 286 pushbutton, double, neutral</b>					
	with two pushbutton pairs and two red LEDs for status indication.					
	• basalt black/metallic silver	<b>5WG1 286-2AB01</b>	1	030	0.036	
	• titanium white	<b>5WG1 286-2AB11</b>	1	030	0.036	
	• basalt black	<b>5WG1 286-2AB21</b>	1	030	0.036	
	• titanium white/metallic silver	<b>5WG1 286-2AB81</b>	1	030	0.036	
	<b>UP 287 pushbutton, quadruple, neutral</b>					
	with four pushbutton pairs and four red LEDs for status indication.					
	• basalt black/metallic silver	<b>5WG1 287-2AB01</b>	1	030	0.036	
	• titanium white	<b>5WG1 287-2AB11</b>	1	030	0.036	
	• basalt black	<b>5WG1 287-2AB21</b>	1	030	0.036	
	• titanium white/metallic silver	<b>5WG1 287-2AB81</b>	1	030	0.036	
<b>DELTA ambiente</b>						
	<b>UP 284 pushbutton, quadruple</b>					
	with four pushbutton pairs, with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED as orientation light and four red LEDs for status indication, with pictographs (included in delivery) for insertion into the four small oval pushbuttons, for clipping onto a UP 110 or UP 114 bus coupling unit.					
	The UP 110 or UP 114 bus coupling unit and the respective frame must be ordered separately.					
	Dimensions (HxWxD): 65 x 65 x 14 mm					
	• arctic white/arctic white	<b>5WG1 284-2AB01</b>	1	030	0.035	
	• arctic white/steel	<b>5WG1 284-2AB03</b>	1	030	0.035	

## Pushbuttons

	Order No.	Price	PS*/ P. unit	PG	Weight per unit kg
	1 unit	Unit(s)			
<b>DELTA surface mounting, IP44</b>					
<b>AP 115 surface-mounting pushbuttons</b>					
with degree of protection IP44					
Dimensions (HxWxD): 75 x 66 x 52 mm					
	<b>AP 115/01 pushbutton, single, intermediate position</b> with one rocker switch with intermediate position and two operating points, with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED as orientation light or for status indication under a window integrated in rocker, with integrated bus coupling unit. • gray	<b>5WG1 115-3AB01</b>	1	030	0.080
	<b>AP 115/11 pushbutton, double, intermediate position</b> with two rocker switches with intermediate position and two operating points each, with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with distinction between short and long button press for control of dimming, solar protection, and scenes, with integrated bus coupling unit. • gray	<b>5WG1 115-3AB11</b>	1	030	0.080
	<b>AP 115/21 pushbutton, single, pushbutton position</b> with one pushbutton with one operating point, with vertical operation, with freely configurable function: toggle, switch On, switch Off, with one red LED as orientation light or for status indication under a window integrated in rocker, with integrated bus coupling unit. • gray	<b>5WG1 115-3AB21</b>	1	030	0.080
	<b>AP 115/31 pushbutton, double, pushbutton position</b> with two pushbuttons with one operating point each, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with distinction between short and long button press for control of dimming, solar protection, and scenes, with integrated bus coupling unit. • gray	<b>5WG1 115-3AB31</b>	1	030	0.080

# Display, Operation

## Pushbuttons

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>DELTA millennium</b>					
<b>IKE 28x pushbuttons for trunking-mounting</b> The text for the labeling field and the symbol for the pushbutton are engraved. Please specify texts and symbols when ordering (see 1/20 "Ordering data"). Module for trunking-mounting, with homogeneous flat surface made of anodized aluminum, with freely configurable function; toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection, and scenes, with evenly lit red luminous bar as orientation light or for status indication, with large labeling field, with integrated bus coupling unit, with ground conductor and ground terminal. Dimensions (HxWxD): 80 x 166 x 41 mm					
	<b>5WG1 281-8AB01</b>	1	030	0.356	
<b>IKE 281 pushbutton, single</b> with one large low-rise pushbutton, with engraved function symbol and engraved text in the labeling field (specify text and symbol when ordering). • aluminum					
	<b>5WG1 282-8AB01</b>	1	030	0.362	
<b>IKE 282 pushbutton, double</b> with two large low-rise pushbuttons, with engraved function symbol and engraved text in the labeling fields (specify texts and symbols when ordering). • aluminum					
	<b>5WG1 283-8AB01</b>	1	030	0.360	
<b>IKE 283 pushbutton, quadruple</b> with four large low-rise pushbuttons, with engraved function symbol and engraved text in the labeling fields (specify texts and symbols when ordering). • aluminum					

## Pushbuttons

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>DELTA bus coupling units</b>					
<b>UP 116 DELTA bus coupling units</b>					
	designed for clipping on a single rocker, functioning as rocker pushbutton with two operating points, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, with distinction between short and long button press for control of dimming and solar protection, with two red LEDs as orientation light or for status indication.	5WG1 116-2AB01	1	030	0.080
	designed for clipping on a double rocker, functioning as rocker pushbuttons with two operating points each, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, with distinction between short and long button press for control of dimming and solar protection, with one red LED per rocker as orientation light or for status indication.	5WG1 116-2AB11	1	030	0.080
	designed for clipping on a single rocker, functioning as pushbutton with one operating point, with freely configurable function: toggle, switch On, switch Off, with two red LEDs as orientation light or for status indication.	5WG1 116-2AB21	1	030	0.080
	designed for clipping on a double rocker, functioning as pushbuttons with one operating point each, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, with distinction between short and long button press for control of dimming and solar protection, with one red LED per pushbutton as orientation light or for status indication.	5WG1 116-2AB31	1	030	0.080

# Display, Operation

## Multifunction Pushbuttons

### Pushbuttons with IR receiver

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA profil</b>	<b>UP 23x pushbuttons with IR receiver</b>					
	with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection and scenes, with IR receiver/decoder for reception of IR telegrams coming from up to 14 additional pushbutton pairs on IR wall-mounted transmitters or hand-held transmitters and for conversion of these IR telegrams into bus telegrams, with labeling field for the insertion of pictographs, for clipping onto a UP 114 bus coupling unit. The UP 114 bus coupling unit and the respective cut-out frame must be ordered separately.					
	Dimensions (HxD): 65 x 65 x 14 mm					
	<b>UP 233 pushbutton, single, neutral, with IR receiver</b>					
	with one pushbutton pair, with one red LED as orientation light or for status indication.					
	<ul style="list-style-type: none"> <li>• pearl gray</li> <li>• titanium white</li> <li>• anthracite</li> <li>• silver</li> </ul>	5WG1 233-2AB01 5WG1 233-2AB11 5WG1 233-2AB21 5WG1 233-2AB71	1 1 1 1	030 030 030 030	0.038 0.038 0.038 0.038	
	<b>UP 234 pushbutton, double, neutral, with IR receiver</b>					
	with two pushbutton pairs, with two red LEDs as orientation light or for status indication.					
	<ul style="list-style-type: none"> <li>• pearl gray</li> <li>• titanium white</li> <li>• anthracite</li> <li>• silver</li> </ul>	5WG1 234-2AB01 5WG1 234-2AB11 5WG1 234-2AB21 5WG1 234-2AB71	1 1 1 1	030 030 030 030	0.038 0.038 0.038 0.038	
	<b>UP 235 pushbutton, quadruple, neutral, with IR receiver</b>					
	with four pushbutton pairs, with four red LEDs as orientation light or for status indication.					
	<ul style="list-style-type: none"> <li>• pearl gray</li> <li>• titanium white</li> <li>• anthracite</li> <li>• silver</li> </ul>	5WG1 235-2AB01 5WG1 235-2AB11 5WG1 235-2AB21 5WG1 235-2AB71	1 1 1 1	030 030 030 030	0.038 0.038 0.038 0.038	

# Display, Operation

## Multifunction Pushbuttons

### Pushbuttons with IR receiver

	Order No.	Price	PS*/ P. unit	PG	Weight per unit kg
	1 unit	Unit(s)			
<b>DELTA style</b>					
<b>UP 285, 286, 287 pushbuttons with IR receiver</b>					
with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection, and scenes, with IR receiver/decoder for reception of IR telegrams coming from up to 14 additional pushbutton pairs on IR wall-mounted transmitters or hand-held transmitters and for conversion of these IR telegrams into bus telegrams, with labeling field for the insertion of pictographs, for clipping onto a UP 114 bus coupling unit. The UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 68 x 68 x 14 mm					
<b>UP 285 pushbutton, single, neutral, with IR receiver</b>					
with one pushbutton pair, with one red LED as orientation light or for status indication.					
• basalt black/metallic silver • titanium white • basalt black • titanium white/metallic silver	<b>5WG1 285-2EB01</b> <b>5WG1 285-2EB11</b> <b>5WG1 285-2EB21</b> <b>5WG1 285-2EB81</b>	1 1 1 1	030 030 030 030	0.038 0.038 0.055 0.038	
<b>UP 286 pushbutton, double, neutral, with IR receiver</b>					
with two pushbutton pairs, with two red LEDs as orientation light or for status indication.					
• basalt black/metallic silver • titanium white • basalt black • titanium white/metallic silver	<b>5WG1 286-2EB01</b> <b>5WG1 286-2EB11</b> <b>5WG1 286-2EB21</b> <b>5WG1 286-2EB81</b>	1 1 1 1	030 030 030 030	0.038 0.038 0.036 0.038	
<b>UP 287 pushbutton, quadruple, neutral, with IR receiver</b>					
with four pushbutton pairs, with four red LEDs as orientation light or for status indication.					
• basalt black/metallic silver • titanium white • basalt black • titanium white/metallic silver	<b>5WG1 287-2EB01</b> <b>5WG1 287-2EB11</b> <b>5WG1 287-2EB21</b> <b>5WG1 287-2EB81</b>	1 1 1 1	030 030 030 030	0.038 0.038 0.036 0.038	
<b>DELTA ambiente</b>					
<b>UP 284 pushbutton, quadruple, with IR receiver</b>					
with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED as orientation light and four red LEDs for status indication, with IR receiver/decoder for reception of IR telegrams coming from up to 14 additional pushbutton pairs on IR wall-mounted transmitters or hand-held transmitters and for conversion of these IR telegrams into bus telegrams, with pictographs (included in delivery) for insertion into the four small oval pushbuttons, for clipping onto a UP 114 bus coupling unit. The UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm					
• arctic white/arctic white • arctic white/steel	<b>5WG1 284-2EB01</b> <b>5WG1 284-2EB03</b>	1 1	030 030	0.084 0.084	

\* You can order this quantity or a multiple thereof.

# Display, Operation

## Multifunction Pushbuttons

### Pushbuttons with room temperature controller

#### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>UP 231/3 pushbuttons, double, with adaptive room temperature controller</b>					
<p>with vertical operation, with two wide inner rocker pushbuttons with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED per pushbutton as orientation light or for status indication, with two narrow outer rocker pushbuttons, one for setpoint offsetting in comfort mode and one for switching between comfort and standby mode, with integrated room temperature sensor and controller for exclusive heating operation, exclusive cooling operation or combined heating/cooling operation, with control by an algorithm for adaptive control and/or two-position control, with room temperature measurement by the room temperature sensor integrated in the controller and an EIB-connected external room temperature sensor, with adjustable weighting between the internally and externally measured temperature, with the following operating modes that can be switched over EIB: comfort mode, standby mode, night mode, frost or heat protection mode, with adjustable offset of the room temperature setpoint value for comfort mode, with adjustable dead zone, selectable either symmetric to the setpoint value for comfort mode or between the heating and cooling setpoint value for comfort mode, with selectable sequence control for heating and cooling operation (required e.g. for the combination of floor and radiator heating), with output of the control variable(s) either as switch On/Off command or as transmit value command in the range 0-100%, with red LEDs for the indication of the current operating mode and setpoint offset, for clipping onto a UP 114 bus coupling unit.</p>					
<b>DELTA profil</b>					
	<b>UP 231/3 pushbutton, double, with adaptive room temperature controller</b>				
	The UP 114 bus coupling unit and the respective cut-out frame must be ordered separately.				
	Dimensions (HxWxD): 65 x 65 x 15 mm				
	<ul style="list-style-type: none"> <li>pearl gray</li> <li>titanium white</li> <li>anthracite</li> <li>silver</li> </ul>	5WG1 231-2AB03	1	030	0.036
		5WG1 231-2AB13	1	030	0.036
		5WG1 231-2AB23	1	030	0.036
		5WG1 231-2AB73	1	030	0.036
<b>DELTA style</b>					
	<b>UP 231/3E pushbutton, double, with adaptive room temperature controller</b>				
	The UP 114 bus coupling unit and the respective frame and the required intermediate frame must be ordered separately.				
	Dimensions (HxWxD): 65 x 65 x 15 mm				
	<ul style="list-style-type: none"> <li>titanium white</li> <li>basalt black</li> </ul>	5WG1 231-2EB13	1	030	0.036
		5WG1 231-2EB23	1	030	0.036

\* You can order this quantity or a multiple thereof.

# Display, Operation

## Multifunction Pushbuttons

### Pushbuttons with motion detector

#### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>UP 230 pushbuttons, quadruple, with motion detector</b> with vertical operation, with four rocker pushbuttons, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED per middle rocker pushbutton and two red LEDs per outer rocker pushbutton as orientation light or for status indication, with two LED windows in the outer rocker pushbuttons for the insertion of pictographs, with integrated motion detector and brightness sensor, with adjustable motion sensing range 90° or 180°, with adjustable cyclic transmission time, with operation of the motion detector either dependent or independent of brightness, with adjustable brightness operating point, with selectable transmission of the brightness value, with integrated LED for indication of detected movements, for clipping onto a UP 110 or UP 114 bus coupling unit.					
<b>DELTA profil</b> 	<b>UP 230/2 pushbutton, quadruple, with motion detector</b> The UP 110 or UP 114 bus coupling unit, the respective cut-out frame and the pictographs for the two outer rocker pushbuttons must be ordered separately (see page 1/12). Dimensions (HxWxD): 65 x 65 x 17 mm	<b>5WG1 230-2AB02</b> <b>5WG1 230-2AB12</b> <b>5WG1 230-2AB22</b> <b>5WG1 230-2AB72</b>	1 1 1 1	030 030 030 030	0.036 0.036 0.036 0.036
<b>DELTA style</b> 	<b>UP 230E pushbutton, quadruple, with motion detector</b> The UP 110 or UP 114 bus coupling unit, the respective frame, the required intermediate frame and the pictographs for the two outer rocker pushbuttons must be ordered separately (see page 1/12). Dimensions (HxWxD): 65 x 65 x 17 mm	<b>5WG1 230-2EB11</b> <b>5WG1 230-2EB21</b>	1 1	030 030	0.036 0.036

\* You can order this quantity or a multiple thereof.

# Display, Operation Pushbutton Accessories

## Pictographs

### Selection and ordering data

DELTA profil/style	Pictographs for UP 230 multifunction pushbuttons	For use in the two outer pushbutton rockers of the UP 230 multifunction pushbutton with motion detector. 1 set = 10 units Dimensions: Ø 8 mm	Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 set	Unit(s)	kg		
	• Dimming	<b>5WG1 293-8AB00</b>	1 set	030	0.006		
	• Switching	<b>5WG1 293-8AB01</b>	1 set	030	0.006		
	• Solar protection control	<b>5WG1 293-8AB02</b>	1 set	030	0.006		
	• Presence/comfort mode	<b>5WG1 293-8AB03</b>	1 set	030	0.006		
	• Absence/standby mode	<b>5WG1 293-8AB04</b>	1 set	030	0.006		
	• Night mode	<b>5WG1 293-8AB05</b>	1 set	030	0.006		
	• Frost protection mode	<b>5WG1 293-8AB06</b>	1 set	030	0.006		
	• Heat protection mode	<b>5WG1 293-8AB07</b>	1 set	030	0.006		
	• Dew point alarm	<b>5WG1 293-8AB08</b>	1 set	030	0.006		
	• Storm warning	<b>5WG1 293-8AB10</b>	1 set	030	0.006		

\* You can order this quantity or a multiple thereof.

## Surface-mounting enclosures

### Selection and ordering data

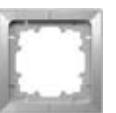
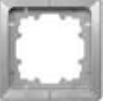
		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
<b>DELTA line</b>						
	<b>Surface-mounting enclosures, single, for flush-mounting devices</b> with flame-retardant base plate. Dimensions (HxWxD): 84 x 84 x 42.5 mm • electrical white • titanium white	<b>5TG2 861</b> <b>5TG2 901</b>		1/5 1/5	021 021	0.085 0.085
	<b>Surface-mounting enclosures, double, for flush-mounting devices</b> with flame-retardant base plate, for horizontal and vertical mounting. Dimensions (HxWxD): 155 x 84 x 42.5 mm • electrical white • titanium white	<b>5TG2 862</b> <b>5TG2 902</b>		1/3 1/3	021 021	0.125 0.125
	<b>Surface-mounting enclosures, triple, for flush-mounting devices</b> with flame-retardant base plate, for horizontal and vertical mounting. Dimensions (HxWxD): 226 x 84 x 42.5 mm • electrical white • titanium white	<b>5TG2 863</b> <b>5TG2 903</b>		1/2 1/2	021 021	0.190 0.190
<b>DELTA profil</b>						
	<b>Surface-mounting enclosure, single, for flush-mounting devices</b> with integrated base plate. Dimensions (HxWxD): 80 x 80 x 42.5 mm • titanium white	<b>5TG1 825</b>		1/5	021	0.048
	<b>Surface-mounting enclosure, double, for flush-mounting devices</b> with integrated base plate, for horizontal and vertical mounting. Dimensions (HxWxD): 125 x 80 x 42.5 mm • titanium white	<b>5TG1 826</b>		1/5	021	0.078
<b>DELTA style</b>						
	<b>Surface-mounting enclosure, single, for flush-mounting devices</b> with flame-retardant base plate. Dimensions (HxWxD): 84 x 84 x 42.5 mm • titanium white	<b>5TG2 901</b>		1/5	021	0.085
	<b>Surface-mounting enclosure, double, for flush-mounting devices</b> with flame-retardant base plate, for horizontal and vertical mounting. Dimensions (HxWxD): 155 x 84 x 42.5 mm • titanium white	<b>5TG2 902</b>		1/3	021	0.125
	<b>Surface-mounting enclosure, triple, for flush-mounting devices</b> with flame-retardant base plate, for horizontal and vertical mounting. Dimensions (HxWxD): 226 x 84 x 42.5 mm • titanium white	<b>5TG2 903</b>		1/2	021	0.190

\* You can order this quantity or a multiple thereof.

# Display, Operation Pushbutton Accessories

## Frames, single

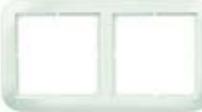
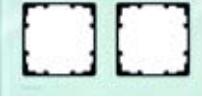
### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
<b>DELTA line</b>		<b>Frames, single, 80 mm</b> Dimensions (HxW): 80 x 80 mm • titanium white • aluminum metallic • carbon metallic • electrical white	<b>5TG2 551-0</b> <b>5TG2 551-3</b> <b>5TG2 551-6</b> <b>5TG2 581-0</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.013 0.015 0.015 0.013
<b>DELTA vita</b>		<b>Frames, single, 83 mm</b> to be used together with color elements only. Dimensions (HxW): 83 x 83 mm • titanium white • carbon metallic • aluminum metallic • gold	<b>5TG1 141</b> <b>5TG1 151</b> <b>5TG1 161</b> <b>5TG1 171</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.012 0.014 0.014 0.014
<b>DELTA miro</b>		<b>Frame, single, 90 mm</b> Dimensions (HxW): 90 x 90 mm • Real glass	<b>5TG1 201</b>	1	021	0.197
<b>DELTA profil</b>		<b>Frames, single, 80 mm</b> frame cut-out. Dimensions (HxW): 80 x 80 mm • pearl gray • titanium white • anthracite • silver	<b>5TG1 861</b> <b>5TG1 801</b> <b>5TG1 831</b> <b>5TG1 761</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.014 0.014 0.014 0.014
<b>DELTA style</b>		<b>Frames, single, 82 mm</b> Dimensions (HxW): 82 x 82 mm • titanium white • basalt black	<b>5TG1 321</b> <b>5TG1 361</b>	1/10 1/10	021 021	0.022 0.021
<b>DELTA ambiente</b>		<b>Frames, single, 83 mm</b> Dimensions (HxW): 83 x 83 mm • arctic white, contour	<b>5TG1 511</b>	1/5	021	0.081
		• arctic white, convex	<b>5TG1 501</b>	1/5	021	0.081

\* You can order this quantity or a multiple thereof.

Frames, double

Selection and ordering data

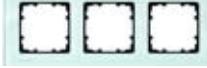
		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA line</b>	<b>Frames, double, 80 mm</b>  for horizontal and vertical mounting. Dimensions (HxW): 151 x 80 mm • titanium white • aluminum metallic • carbon metallic • electrical white	<b>5TG2 552-0</b> <b>5TG2 552-3</b> <b>5TG2 552-6</b> <b>5TG2 582-0</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.023 0.026 0.026 0.023	
<b>DELTA vita</b>	<b>Frames, double, 83 mm</b>  for horizontal and vertical mounting, to be used together with color elements only. Dimensions (HxW): 154 x 83 mm • titanium white • carbon metallic • aluminum metallic • gold	<b>5TG1 142</b> <b>5TG1 152</b> <b>5TG1 162</b> <b>5TG1 172</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.019 0.022 0.022 0.022	
<b>DELTA miro</b>	<b>Frame, double, 90 mm</b>  for horizontal and vertical mounting. Dimensions (HxW): 161 x 90 mm • Real glass	<b>5TG1 202</b>	1	021	0.243	
<b>DELTA profil</b>	<b>Frames, double, 80 mm</b>  for horizontal and vertical mounting. Dimensions (HxW): 151 x 80 mm • one frame segment is cut-out, - pearl gray - titanium white - anthracite - silver • both frame segments are cut-out, - pearl gray - titanium white - anthracite	<b>5TG1 863</b> <b>5TG1 803</b> <b>5TG1 833</b> <b>5TG1 763</b>  <b>5TG1 862</b> <b>5TG1 802</b> <b>5TG1 832</b>	1/10 1/10 1/10 1/10  1/10 1/10 1/10	021 021 021 021  021 021 021	0.024 0.024 0.024 0.024  0.024 0.024 0.024	
<b>DELTA style</b>	<b>Frames, double, 82 mm</b>  for horizontal and vertical mounting. Dimensions (HxW): 153 x 82 mm • titanium white • basalt black	<b>5TG1 322</b> <b>5TG1 362</b>	1/10 1/10	021 021	0.034 0.039	
<b>DELTA ambiente</b>	<b>Frames, double, 83 mm</b>  for horizontal and vertical mounting. Dimensions (HxW): 154 x 83 mm • arctic white, contour • arctic white, convex	<b>5TG1 512</b> <b>5TG1 502</b>	1/5 1/5	021 021	0.135 0.135	

\* You can order this quantity or a multiple thereof.

# Display, Operation Pushbutton Accessories

## Frames, triple

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA line</b>		<b>Frames, triple, 80 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 222 x 80 mm • titanium white • aluminum metallic • carbon metallic • electrical white	<b>5TG2 553-0</b> <b>5TG2 553-3</b> <b>5TG2 553-6</b> <b>5TG2 583-0</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.033 0.038 0.038 0.033
<b>DELTA vita</b>		<b>Frames, triple, 83 mm</b> for horizontal and vertical mounting, to be used together with color elements only. Dimensions (HxW): 225 x 83 mm • titanium white • carbon metallic • aluminum metallic • gold	<b>5TG1 143</b> <b>5TG1 153</b> <b>5TG1 163</b> <b>5TG1 173</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.027 0.031 0.031 0.031
<b>DELTA miro</b>		<b>Frame, triple, 90 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 232 x 90 mm • Real glass	<b>5TG1 203</b>	1	021	0.305
<b>DELTA profil</b>		<b>Frames, triple, 80 mm</b> one frame segment is cut-out, for horizontal and vertical mounting. Dimensions (HxW): 222 x 80 mm • pearl gray • titanium white • anthracite • silver	<b>5TG1 864</b> <b>5TG1 804</b> <b>5TG1 834</b> <b>5TG1 764</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.033 0.033 0.033 0.033
<b>DELTA style</b>		<b>Frames, triple, 82 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 224 x 82 mm • titanium white • basalt black	<b>5TG1 323</b> <b>5TG1 363</b>	1/10 1/10	021 021	0.049 0.047
<b>DELTA ambiente</b>		<b>Frames, triple, 83 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 225 x 83 mm • arctic white, contour • arctic white, convex	<b>5TG1 513</b> <b>5TG1 503</b>	1/5 1/5	021 021	0.187 0.187

\* You can order this quantity or a multiple thereof.

Frames, quadruple

Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
<b>DELTA line</b>		<b>Frames, quadruple, 80 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 293 x 80 mm • titanium white • aluminum metallic • carbon metallic • electrical white	<b>5TG2 554-0</b> <b>5TG2 554-3</b> <b>5TG2 554-6</b> <b>5TG2 584-0</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.044 0.050 0.050 0.044
<b>DELTA vita</b>		<b>Frames, quadruple, 83 mm</b> for horizontal and vertical mounting, to be used together with color elements only. Dimensions (HxW): 296 x 83 mm • titanium white • carbon metallic • aluminum metallic • gold	<b>5TG1 144</b> <b>5TG1 154</b> <b>5TG1 164</b> <b>5TG1 174</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.041 0.046 0.046 0.046
<b>DELTA miro</b>		<b>Frame, quadruple, 90 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 303 x 90 mm • Real glass	<b>5TG1 204</b>	1	021	0.370
<b>DELTA style</b>		<b>Frames, quadruple, 82 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 295 x 82 mm • titanium white • basalt black	<b>5TG1 324</b> <b>5TG1 364</b>	1/10 1/10	021 021	0.062 0.060
<b>DELTA ambiente</b>		<b>Frames, quadruple, 83 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 296 x 83 mm • arctic white, contour • arctic white, convex	<b>5TG1 514</b> <b>5TG1 504</b>	1/5 1/5	021 021	0.218 0.218

# Display, Operation Pushbutton Accessories

## Frames, quintuple

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA line</b>		<b>Frames, quintuple, 80 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 364 x 80 mm • titanium white • aluminum metallic • carbon metallic • electrical white	<b>5TG2 555-0</b> <b>5TG2 555-3</b> <b>5TG2 555-6</b> <b>5TG2 585-0</b>	1/5 1/5 1/5 1/5	021 021 021 021	0.055 0.063 0.063 0.055
<b>DELTA vita</b>		<b>Frames, quintuple, 83 mm</b> for horizontal and vertical mounting, to be used together with color elements only. Dimensions (HxW): 367 x 83 mm • titanium white • carbon metallic • aluminum metallic • gold	<b>5TG1 145</b> <b>5TG1 155</b> <b>5TG1 165</b> <b>5TG1 175</b>	1/5 1/5 1/5 1/5	021 021 021 021	0.065 0.071 0.071 0.071
<b>DELTA style</b>		<b>Frames, quintuple, 82 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 366 x 82 mm • titanium white • basalt black	<b>5TG1 325</b> <b>5TG1 365</b>	1/5 1/5	021 021	0.088 0.086
<b>DELTA ambiente</b>		<b>Frames, quintuple, 83 mm</b> for horizontal and vertical mounting. Dimensions (HxW): 367 x 83 mm • arctic white, contour • arctic white, convex	<b>5TG1 515</b> <b>5TG1 505</b>	1/5 1/5	021 021	0.263 0.263

\* You can order this quantity or a multiple thereof.

## Color elements

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>DELTA vita</b>					
					
<b>Color elements</b>					
for insertion into DELTA vita frames, for 55 mm devices. These color elements can be used together with DELTA vita frames only. Dimensions (HxW): 62 x 62 mm					
<b>Color elements</b>					
• titanium white • yellow	<b>5TG1 178</b> <b>5TG1 188-1</b>	1/10 1/10	021 021	0.008 0.008	
<b>Color elements, galvanized</b>					
• platinum • gold • chrome	<b>5TG1 177</b> <b>5TG1 180</b> <b>5TG1 181</b>	1/10 1/10 1/10	021 021 021	0.009 0.009 0.009	
<b>Color elements, painted</b>					
• dark red • dark blue	<b>5TG1 186</b> <b>5TG1 187</b>	1/10 1/10	021 021	0.009 0.009	
<b>Color elements, translucent</b>					
• green • orange • red • blue	<b>5TG1 182</b> <b>5TG1 183</b> <b>5TG1 184</b> <b>5TG1 185</b>	1/10 1/10 1/10 1/10	021 021 021 021	0.008 0.008 0.008 0.008	

## Intermediate frames

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>DELTA style</b>					
					
<b>Intermediate frames, single, 68 mm</b>					
for installation of 65 mm devices into DELTA style frames. Dimensions (HxW): Outer: 68 x 68 mm, Inner: 65 x 65 mm					
• titanium white • basalt black	<b>5TG1 328</b> <b>5TG1 368</b>	1/10 1/10	021 021	0.008 0.008	

# Display, Operation

## Accessories for trunking systems

### Overview



The DELTA millennium instabus trunking system has an impressive homogeneous, level, clear structured operator interface made of anodized aluminum.

It hides a wealth of innovative technology, exclusively for use with the instabus:

- Independent of country-specific switch and socket boxes
- as linking element between ceilings and floors
- for installation of devices from the N System,  
e.g. instabus actuators

The trunking comprises a trunking base and a trunking lid, the actual cover. The trunking lid is easily and quickly snap-fitted in the trunking base in the same way as the modules.

The individual modules can be arranged side by side in any order and be used in any number.

### Design

The modular design provides great flexibility during the planning phase:

- **Trunking**

- Surface-mounting type

- **Modules**

- instabus modules  
(pushbuttons, room temperature controllers)
- Socket outlet module
- Masking module (with Siemens logo)

- **Accessories**

- Set of end plates
- Wall junction cover
- Cable holder
- Grounding set
- Disassembly tool

### Design

DELTA millennium is also unique in terms of design and operator friendliness:

- customized labeling with text in the user's national language and with symbols
- uniform, homogeneous and self-explanatory short-stroke pushbuttons.

Homogeneously illuminated, high-intensity status and orientation lighting.

### Disassembly

One masking module per trunking section is required to open a closed trunking line.

Other modules or trunking lids cannot be disassembled until after the masking module has been removed with the disassembly tool.



### Ordering data

The following data are required for all orders:

- Trunking

- The length of the trunking base depends on the room height
- The number and lengths of the trunking lids depends on the number of modules

- Modules

- Labeling text
- Symbols

Please complete an order form for each module (see page 1/21) and enclose it with the order.

Please send EDP orders by fax.

Orders for trunking bases and trunking lids should be made out for the length required in meters, not for a certain number of pieces.

**Example:**

You want to order a trunking base with a length of 173 cm.

**wrong:**

1 unit 5WG1 195-3AB01, 173 cm long

**correct:**

1.73 m 5WG1 195-3AB01

## Accessories for trunking systems

IV

IKE 281 Pushbutton, single

V



VI



to Siemens AG, A&D ET LZA4  
Regensburg  
Fax: +49(0)941 790-2751

Date Customer's reference/  
order reference I

(I) Order item (II) Quantity (III) Order no.

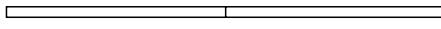
5WG1 . . . - . . . .

Project Installation site Local partner

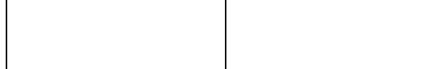
II

IKE 282 Pushbutton, double

V



VI



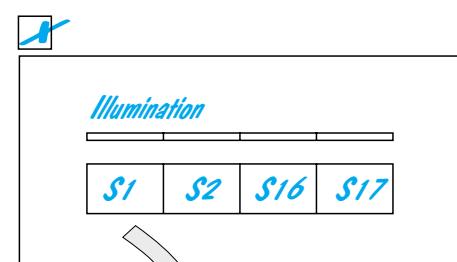
Notes

How to fill in the order form:

- (I) State order item
- (II) State quantity
- (III) Fill in desired order no.
- (IV) Mark desired module according to order no.
- (V) State inscription text  
(font: Univers S47 Condensed Light 24 point)
- (VI) Select and state symbols

Special inscriptions on demand.

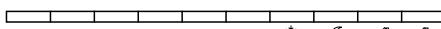
Example for  
ordering:



III

IKE 250 Temperature controller

V



Symbols:

S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12

S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24

IE\_07689

# Display, Operation

## Accessories for trunking systems

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
				1 unit	Unit(s)	kg
<b>DELTA millennium</b>						
	<b>AP 195 trunking base</b> for surface mounting, includes 1 ground conductor, 3 ground terminals, 1 partition, 4 holders for the partition and 5 coupling pins. Quote length when placing your order, maximum length: 2 m (see page 1/21 "Ordering data"). Dimensions (WxD): 170x68 mm, maximum length 2 m • aluminum	<b>5WG1 195-3AB01</b>		1 m/2 m	030	2.200
	<b>IKE 197 trunking lid</b> comprising ground conductor and ground terminal for the trunking base. • aluminum	<b>5WG1 197-8AB01</b>		1 m/2 m	030	1.300
	<b>IKE 198 socket outlet cover</b> Module for trunking-mounting, with large hinged lid and engraved plug symbol, with trunking-mounting box for AP 195 trunking base, for the mounting of SCHUKO outlets in DELTA design, comprising ground conductor and ground terminal for trunking base • aluminum	<b>5WG1 198-8AB01</b>		1	030	0.015
	<b>IKE 195 masking module</b> for easy opening of each installed trunking piece, comprises ground conductor and ground terminal for the trunking base. • aluminum	<b>5WG1 195-8AB41</b>		1	030	0.199
	<b>Disassembly tool</b> with suction pads and with hook, for easy disassembly of the modules, the masking module and the trunking lid.	<b>5WG1 195-8AB51</b>		1	030	0.159
	<b>Set of end plate</b> for front termination of the trunk, comprises 2 end plates, 2 ground conductors and 2 ground terminals for the trunking base. • aluminum	<b>5WG1 195-8AB21</b>		1	030	0.663
	<b>Wall cover plate</b> as screen for wall or ceiling openings, for clean termination of trunking to wall or ceiling.	<b>5WG1 195-8AB31</b>		1	030	0.198
	<b>Cable holder</b> for fixing sheathed cables in the trunking base. 1 assembly rail with 2 sliding nuts, 5 cable clips, and 2 screws with serrated washers.	<b>5WG1 195-8AB01</b>		1	030	0.112
	<b>Grounding set</b> comprises 3 ground conductors, 3 ground terminals for the trunking base, 3 ground connections for the trunking lid.	<b>5WG1 195-8AB11</b>		1	030	0.127

\* You can order this quantity or a multiple thereof.

## Displays

## Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>UP 58x display and operator control units</b>  as graphical LCD with a resolution of 132 x 65 pixels, with display of up to 30 characters per line and up to 5 lines (using font size Arial 12pt), with text and special characters from any downloadable Windows font and/or freely editable characters and symbols, with display of up to 16 user programmable messages, with message text lengths of maximum 3 lines, comprising fixed and variable text parts, with user definable data type per message: switching, floating point value 2/4 byte, percentage value 1 byte, counter value 1/2/4 byte, fixed text, variable text (max. 14 ASCII characters), time or date, with scaling, with conversion and text display of values (1/2/4 byte), with selectable acoustical alarm and/or flashing for each alarm signal, with individual acknowledgement of each alarm signal, with operation of up to 16 bus functions, such as switching, changing a dimming value, blind or slat position or changing a temperature setpoint by changing the displayed state or value, with green-yellow display backlighting to be switched On either permanently or time-controlled or to be controlled over the bus, with two pushbuttons for selection of the message to be displayed, with two additional pushbuttons for the operation of the configured bus functions, with power supply over the bus line (double bus load), for clipping onto the included special flush-mounting bus coupling unit. Dimensions (HxWxD): 65 x 65 x 20 mm					
<b>DELTA profil</b>					
	<b>UP 585 display/operator control units</b> The respective cut-out frame must be ordered separately.	<b>5WG1 585-2AB01</b> <b>5WG1 585-2AB11</b> <b>5WG1 585-2AB21</b> <b>5WG1 585-2AB71</b>	1 1 1 1	030 030 030 030	0.113 0.113 0.113 0.113
<b>DELTA style</b>					
	<b>UP 585 display/operator control unit</b> The respective frame and intermediate frame must be ordered separately.	<b>5WG1 585-2AB11</b>	1	030	0.113
	<b>UP 584 display/operator control unit</b> The respective frame and intermediate frame must be ordered separately.	<b>5WG1 584-2AB21</b>	1	030	0.113
<b>DELTA ambiente</b>					
	<b>UP 586 display/operator control unit</b> The respective frame must be ordered separately.	<b>5WG1 586-2AB01</b>	1	030	0.113

\* You can order this quantity or a multiple thereof.

# Display, Operation

## Touch panels

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>UP 588 touch panels</b> with graphical LCD (monochrome) with 5.5 inches (approx. 14 cm) screen diagonal, with 320 x 240 pixel resolution, with integrated resistive matrix touch with 6 x 10 fields, with activation of the backlighting by touching the screen and automatic deactivation after a configurable time, with triggering of a switching command telegram by touching the deactivated screen (e.g. for switching On the room lighting), with display and control of up to 70 EIB standard functions on 7 display pages, each with 10 function fields, with selectable function per function field: text display (up to 10 characters), status indication (as symbol or text) or control field (with up to 2 pushbuttons), with a separate alarm page with 4 alarm and 2 text messages, with a separate weekly schedule page for 5 channels (communication objects) each with up to 10 schedule entries, with a separate scene control page for saving and recalling of up to 8 scenes with 10 communication objects, to be configured using ETS (Engineering Tool Software), with display of date and time, with integrated bus coupling unit, with bus connection via bus terminal, with cavity wall box for flush-mounting. The required design frame (anodized aluminum) must be ordered separately (5WG1 588-8AB01). Dimensions (HxWxD): 190 x 156 x 58 mm					
	<b>UP 588/01 touch panel</b> with green background lighting. Rated operational voltage 230 V AC, 50/60 Hz	<b>5WG1 588-2AB01</b>	1	030	0.725	
	<b>UP 588/11 touch panel</b> with white background lighting. Rated operational voltage 230 V AC, 50/60 Hz	<b>5WG1 588-2AB11</b>	1	030	0.750	
	<b>UP 588/21 touch panel</b> with white background lighting. Rated operational voltage 24 V AC/DC	<b>5WG1 588-2AB21</b>	1	030	0.710	
	<b>Design frame for UP 588 touch panels</b> made of anodized aluminum, with Siemens logo.	<b>5WG1 588-8AB01</b>	1	030	0.128	

\* You can order this quantity or a multiple thereof.

## Touch panels

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>UP 58x Touch Managers wave</b>  with touch-sensitive 5.7" display, with a resolution of 320 x 240 pixels, with touch-activated and automatically deactivated background lighting, for monitoring and control of up to 70 actuator and 40 sensor channels, with display of alarms of smoke detectors, of images of a connected WebCam, of the switching status of switchable devices, of the status of door/window contacts, of the battery status and the quality of the radio transmission of battery-powered devices with KNX RF communication, with relaying of alarms and other messages by email, with scene control for 16 scenes with a total of approx. 200 actuator channels and scene triggering operations (from push buttons of the Touch-Manager wave, external sensors or schedule entries), with up to 7 room temperature controllers (currently available for KNX EIB only) with up to 50 comfort heating periods, with gateway function between KNX RF and KNX EIB, with display of the outdoor temperature received over KNX EIB, for use as a browser for HTML pages on an external server, with optional remote control, remote monitoring and remote configuration of the Touch Manager wave from any device connected to the same local network with HTML4-capable browser or over the Internet if the network is correctly configured, with integrated real-time clock, with synchronization of date and time over KNX EIB or Ethernet, with cyclic transmission of date and time over KNX EIB, with one wide-range power supply unit for AC 110...230 V, 50...60 Hz, with connection of the power supply via screw-type terminals for 2.5 mm <sup>2</sup> , with Ethernet connection over RJ45 socket, with integrated transmitter/receiver for KNX RF (868 MHz), for flush mounting. The Touch Manager wave has to be installed in either a flush-mounting junction box from Kaiser, Item No. 1097-92 or in a cavity wall junction box from Kaiser, Item No. 9197-91. The junction box must be ordered separately ( <a href="http://www.kaiser-elektro.de">http://www.kaiser-elektro.de</a> ). Dimensions (HxWxD): 257 x 222 x 56 mm (mounting depth: 45 mm)					
<b>UP 580 Touch Manager wave</b> • with touch-sensitive 5.7" display, monochrome, • with communication over Ethernet and KNX RF • silver	<b>5WG3 580-2AB71</b>	1	030	1.500	
<b>UP 581 Touch Manager wave</b> • with touch-sensitive 5.7" color display, • with communication over Ethernet and KNX RF • silver	<b>5WG3 581-2AB71</b>	1	030	1.500	
<b>UP 582 Touch Manager wave</b> • with touch-sensitive 5.7" display, monochrome, • with communication over Ethernet, KNX RF and KNX EIB • with integrated bus coupling unit and bus connection via bus terminal • silver	<b>5WG3 582-2AB71</b>	1	030	1.500	
<b>UP 583 Touch Manager wave</b> • with touch-sensitive 5.7" color display, • with communication over Ethernet, KNX RF and KNX EIB • with integrated bus coupling unit and bus connection via bus terminal • silver	<b>5WG3 583-2AB71</b>	1	030	1.500	

# Display, Operation

## Remote controls

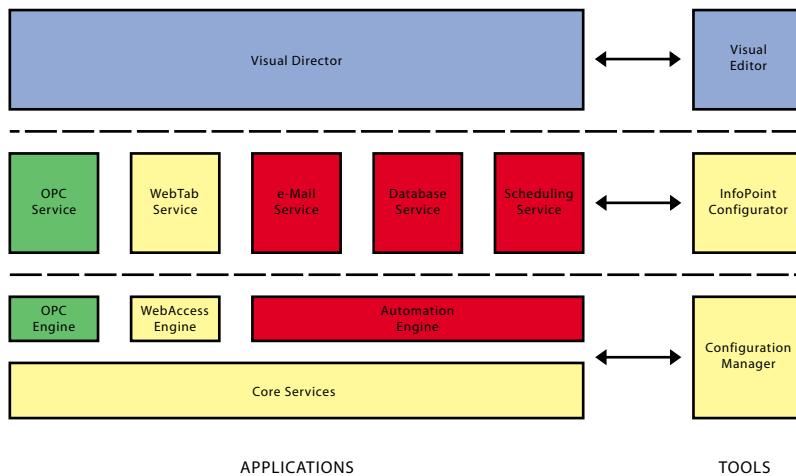
### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>Wall-mounted IR transmitters</b> (discontinued model) for the wireless operation of actuators by means of bus telegrams. The actuator groups can be operated with the pushbutton rockers. Transmitter range with red LED cover: approx. 8 m Transmitter range with white LED cover: 6 m The battery must be ordered separately. Dimensions (HxWxD): 75 x 115 x 25					
	<b>AP 420, single</b> Adjustable channels: 1 of 64 • with red LED cover, titanium white • with white LED cover, titanium white	<b>5WG1 420-3AB11</b> <b>5WG1 420-3AB12</b>	2 2	030 030	0.079 0.079	
	<b>AP 421, double</b> Adjustable channels: 2 of 64 • with red LED cover, titanium white • with white LED cover, titanium white	<b>5WG1 421-3AB11</b> <b>5WG1 421-3AB12</b>	2 2	030 030	0.079 0.079	
	<b>AP 422, quadruple</b> Adjustable channels: 4 of 64 • with red LED cover, titanium white • with white LED cover, titanium white	<b>5WG1 422-3AB11</b> <b>5WG1 422-3AB12</b>	2 2	030 030	0.079 0.079	
	<b>490 batteries, 6 V</b> for supplying power to the wall-mounted IR transmitters AP 420, AP 421, AP 422	<b>5WG1 490-8AA81</b>	1	030	0.030	
	<b>S 425 hand-held IR transmitter</b> for remote control of 8 out of 64 possible channels, operator-controllable as 2 switchable groups of 4 channels each, with freely configurable function per channel: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with rotary switch for setting the channel number range, transmission range approx. 20 m. The 4 batteries of type LR03/AAA (1.5 V) required for operation are not included in delivery. Dimensions (HxWxD): 159 x 39 x 23 mm • black	<b>5WG1 425-7AB21</b>	1	030	0.070	
	<b>S 425 wave hand-held radio transmitters</b> with 4 pre-selection pushbuttons and 4 pushbutton pairs for wireless operation of 16 different room functions, with a separate pushbutton pair for a central function (e.g. central on/off), with configurable function per pushbutton pair: switch On/Off, switch On/Off and dim, solar protection control, save and recall of scenes, with radio transmitter 868 MHz, including batteries. The radio hand-held transmitter is powered by 2 batteries (LR03/AAA; 1.5 V); the batteries are included with the device. Dimensions (HxWxD): 154 x 55 x 24 mm • black • silver	<b>5WG3 425-7AB21</b> <b>5WG3 425-7AB71</b>	1 1	030 030	0.124 0.125	

\* You can order this quantity or a multiple thereof.

## Overview

### Web visualization with ComBridge Studio



- Visual Director is a complete Web visualization tool with user authentication, its own navigation structure and EIB display and control elements that can be freely positioned.
- The OPC service links the EIB with OPC client systems.
- Automation Services execute automation functions directly from the ComBridge Studio Server PC: time jobs, e-mails and database entries for the purpose of data analysis and reporting.
- Core and Webtab Services link the EIB system to the DP network and enable fast tabular visualization.

Only buy the function that you really need. Not more.

The modular and scalable structure of ComBridge Studio allows you to buy only those functions that you really need for your plant.

N146 IP router, user and functional expansions can be subsequently added at any time. This offers considerable cost benefits. These functions can be divided into four groups.

# Display, Operation

## Visualization

### Core and Webtab Services



This package provides all the necessary functions in order to manage EIBnet/IP devices, such as the N146 IP router and function services (TCP engines) on which all ComBridge Studio applications are based.

It also contains IPAS Webtabs, which support the visualization of KNX EIB data points within the shortest time possible. Webtabs are tables, each with one row per data point. Each row contains a description text, the group address or object name, the current state of the data point and buttons for operation.

There are different rows per EIS type. A dimmer (EIS2) shows, for example, the description text, the group address, the current dimmer value in % and the buttons for controlling the dimmer. A quick click of the mouse switches the dimmer On and Off, and a long press of the mouse button turns the dimmer in the relevant direction, just the same as a wall-mounted pushbutton.

The following tools are also part of the Core and Webtab Services:

- ComBridge Configuration Manager: user interface for the management of the IP router, TCP engines and the software licenses.
- ComBridge InfoPoint Configurator: easy-to-use tool for the creation of Webtabs, OPC data point lists, email services, time jobs and database entries.

### Automation Services



In addition to the Web-based user control of the *KNX EIB* installation, ComBridge Studio Automation Services deliver application services at management level.

#### Time tasks:

daily programs can be stored and managed centrally using the Scheduling Service. Simply checkmark week days to activate. Switching and control commands can be executed. (EIS1, EIS5).

#### Emails:

critical states or events can be monitored so that in the event of their occurrence, emails are automatically sent. The overshooting or undershooting of limit values, 0 or 1 states, or the receipt of specific group addresses can be tested. The contents of emails can be designed very expressively, and even sent with an attachment, e.g. with photos or circuit diagrams.

#### Data recording:

using the Database Services, you can write selected *KNX EIB* group addresses to a database: events, measured values, count values, for subsequent evaluation and reporting.

**OPC Services**

ComBridge Studio offers full OPC server functionality in order to integrate KNX EIB installations into other control systems.

Double advantage:  
ComBridge Studio OPC Services can also be used at the same time as other ComBridge Studio applications.

For example, the plant can be controlled by OPC at the same time as the workplace is controlled using Webtab or a Visual Director application is implemented. It is also possible to ensure mobile access to KNX EIB installations for service personnel, or set up an email message service, etc.

Quantity control:  
not all data is of interest to the OPC client system. Exchanging all data with the KNX EIB can lead to a huge volume of telegrams that just clog up the system. In the InfoPoint Configurator you can restrict lists to the required information only.

**Visualization****Visual Director**

IPAS ComBridge Studio Visual Director is supplementary to Webtab and offers a wide range of free design options. Freely definable navigation, free layout of the graphical display and control elements.

Web standards:  
Visual Director is HTML-based so that company Web assets, such as logo, navigation, graphics, dynamic HTML, layouts, scripts and dynamic contents in visualization projects can be used again. Furthermore, HTML know-how is very prevalent on the market and easily available.

User login:  
Visual Director provides complete user management. Each user can be assigned their own start page and navigation. The user level lets you control the data points each user can access.

Visual editor:  
Visual Director contains a menu-assisted, pixel-graphic HTML editor with a multitude of functions for creating your Web user interface.

# Display, Operation

## Visualization

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
With optional expansion package for the number of users, number of EIBnet/IP gateways, time switch programs, database interface, OPC interface, e-mail service. Please order directly from: <b>IPAS GmbH,</b> Grabenstraße 149a, 47057 Duisburg, Tel.: +49 (0)203 378 67-0; Fax: +49 (0)203 378 67 10, Email: <a href="mailto:info@ipas-products.com">info@ipas-products.com</a> , Internet: <a href="http://www.ipas-products.com">http://www.ipas-products.com</a>					
<b>Visualization software IPAS ComBridge Studio, Core and Webtab Services</b> with core functions for the signaling, logging and indication of alarms and operating status or values, as well as updated images on a PC (operator terminal), with acceptance of all KNX EIB group address from the ETS2 and ETS3, with option for assigning data point types, units and a name of up to 32 characters per displayed operator entry, with an editor for the fast creation of tabular diagrams, which can be controlled over a browser, with dynamic diagram elements for the representation of updated data point states, with configuration of time switch programs, event programs, ODBC database interface, OPC server interface, for 1 EIBnet/IP router or controller, with failure monitoring of the EIBnet/IP gateway, as configuration and playback version, with driver software for the KNX EIB connection over EIBnet/IP, including manual.	<b>63101-32-01</b>				
<b>IPAS ComBridge Studio, 5 User Extension</b> for the expansion of the visualization software IPAS ComBridge Studio by 5 further user stations.	<b>63101-32-10</b>				
<b>IPAS ComBridge Studio, 5 Gateway Extension</b> for the expansion of the visualization software IPAS ComBridge Studio by the communication with additional 5 EIBnet/IP routers or controllers	<b>63101-32-11</b>				
<b>IPAS ComBridge Studio, OPC Services</b> for expansion of the visualization software IPAS ComBridge Studio by an OPC server interface for data exchange with one OPC client, with configuration of the OPC data points of the visualization software.	<b>63101-32-06</b>				
<b>IPAS ComBridge Studio, e-mail services</b> for the expansion of the visualization software IPAS ComBridge Studio by an e-mail server interface for the event-controlled transmission of electronic messages, with configuration of the events of the visualization software, with event-dependent message texts, with event-dependent recipient lists, with event-dependent appendage of images and/or files.	<b>63101-32-07</b>				
<b>IPAS ComBridge Studio, Database Services</b> for expansion of the visualization software IPAS ComBridge Studio by a database server interface for saving bus events in any database with ODBC interface, as basis for e.g. demand statistics for count values or performance values for the N 360 maximum-level monitor, with configuration of the database server interface of the visualization software.	<b>63101-32-04</b>				
<b>IPAS ComBridge Studio, Schedule Services</b> for expansion of the visualization software IPAS ComBridge Studio by a time switch program as weekly program, with an unrestricted number of channels and entries, with configuration from the visualization software.	<b>63101-32-12</b>				
<b>IPAS ComBridge Studio, Visual Director</b> for expansion of the visualization software IPAS ComBridge Studio by graphical display and operation, for the signaling, logging and indication of alarm and operating states or operating values, as well as updated images on a PC (operator terminal), with control release at least 4 authorization levels, with time-dependent control release, with user-dependent control release per operator entry, with acceptance of all KNX EIB group addresses from the ETS2 and ETS3, with option for assigning data point types, units and a name of up to 32 characters per displayed operator entry, with reading in of background images as pixel and vector graphics, including graphics editor IPAS ComBridge Studio, Visual Editor for the creation of diagrams, which can be controlled using a browser, with operator-dependent start picture and interface image structure, with the following dynamic diagram elements for the representation of updated plant mimics: output variable, auxiliary mimic variables, switching variables, status variables, text variables and counter variables, with storage of event information on the hard disk and display on a screen page, with output of color screen copies to a printer, with merging of video camera images.	<b>63101-32-08</b>				

\* You can order this quantity or a multiple thereof.

2/2  
2/3  
2/6

Analog output devices  
Binary output devices  
Switchable outlets

# Output Devices

## Analog output devices

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>N 670 universal I/O module, 2 x universal I/O, 2 x Pt1000 input, 2 x relay output, 230 V AC, 10 A</b> with 2 universal inputs/outputs, each configurable as either analog input 0-10 V DC, analog output 0-10 V DC, binary input for 10 V DC or binary output for 10 V DC, analog input with limit value monitoring and indication, with adjustable limit values and hysteresis, analog output with adjustable lower and upper limit of the output voltage, with adjustable voltage value in case of bus voltage failure and recovery, binary input with edge evaluation, binary output with adjustable switching position in case of bus voltage failure and recovery, with 2 inputs for direct connection of temperature sensors with Pt1000 measuring elements for temperature measurement in the range -25 to +45 Grad C, with limit value monitoring and indication, with adjustable limit values and hysteresis, with 2 binary outputs, relay contacts rated for 230 V AC, 10 A at p.f. = 1, configurable as NO contact/NC contact, with forced control, with configurable switching position in case of bus voltage failure and recovery, with power supply of the electronics by an external power supply for 24 V AC/DC, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. The external power supply unit with 24 V AC/DC must be ordered separately (e.g. LOGO!Power 6EP1 331-1SH01) Width 4 MW (1 Modular Width = 18 mm)	5WG1 670-1AB03	1	030	0.220	

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>N 562 binary output device, 2 x 230 V AC, 10 A</b> with one potential-free relay contact per output, rated voltage 230 V AC, rated current 10 A at p.f. = 1, with selectable programs for the independent switching On/Off of electrical loads, either with direct operation or with forced control, with status objects, with operation as timer or with On/Off delay, with logic operation (AND/OR) of two communication objects for channel A, with contacts configurable as NC contact / NO contact, with control of an electro thermal valve positioner or electrical heating, with monitoring of the room temperature controller, with adjustable characteristics of the thermal drive (valve opened or closed if de-energized), with communication objects for reception of status information from up to three window contacts per channel and closing of the valve if the window is open, with communication objects for the reception of a frost alarm signal per channel, with activation of the heating using a 50% PWM signal (corresponds to a half-opened valve) if a frost alarm is received and on failure of communication with the room temperature controller, with configurable output state in case of bus voltage failure and bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 Modular Width = 18 mm)	5WG1 562-1AB01	1	030	0.105
	<b>N 567/01 switch actuator, 4 x 230 V AC, 8 A</b> with one potential-free relay contact per output, rated voltage 230 V AC, rated current 8 A at p.f. = 1, with electronics powered by an integrated power supply unit for 230 V AC, with pushbutton for switching between bus and direct operation mode, with a yellow LED indicating direct operation mode, with 1 red LED per output for display of the switching state, with one pushbutton per output for toggling the output in direct operation mode, operational if device supplied with 230 V AC (even if there is no bus voltage or if bus communication is not operational), with selection between identical or individual setting of the outputs, with operating mode configurable for each output (normal operation, timer operation), with adjustable on/off delay, with selectable logic operation (AND/OR) between two communication objects and configurable start value of the logic operation at mains voltage recovery, with optional night mode object per output for time limited activation of the output at night mode, with adjustable On-period for night or timer mode, with selectable warning: 3 x On/Off (flashing) warns of impending switch-off in night or timer mode, with optional status indication object per output, with transmission of status on request and/or automatically after changes, with optional 8-bit scene control object, with integrated 8 bit scene control and assignment of each output to up to 8 scenes, with forced switch-over of all outputs to Off in case of mains voltage failure, with configurable switch state of each output after mains voltage recovery, with integrated bus coupling unit with only half a standard bus load, with bus connection via bus terminal and contact system to data-rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 Modular Width = 18 mm)	5WG1 567-1AB01	1	030	0.220

# Output Devices

## Binary output devices

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>N 510 load switches, quadruple</b> with one potential-free relay contact per output, rated voltage 230 V AC, with slide switch per output for manual operation and switch position indication, with each output configurable as NC contact / NO contact, with configurable timer operation, with configurable On/Off delay, with selectable logic operation (AND/OR) of two communication objects and configurable start value of the logic operation at bus voltage recovery, with object for status indication per output, with object for forced operation, with configurable switch state of each output in case of bus voltage failure and after bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5 Width 4 MW (1 Modular Width = 18 mm)					
	<b>5WG1 510-1AB03</b>	1	030	0.240	
<b>N 510/03 load switch, 4 x 230 V AC, 16 A</b> rated current 16 A at p.f. = 1 or rated current 8 A for AC3 utilization categories acc. to EN 60947-4-1.					
	<b>5WG1 510-1AB04</b>	1	030	0.280	
<b>N 510/04 load switch, 4 x 230 V AC, 16 A, C-load</b> rated current 16 A for AC3 utilization categories acc. to EN 60947-4-1.					
<b>N 567/1x switch actuators, 8-fold</b> with one potential-free relay contact per output, rated voltage 230 V AC, with electronics powered by an integrated power supply unit for 230 V AC, with a pushbutton for switching between bus and direct operation mode, with a yellow LED indicating direct operation mode, with 1 red LED per output for display of the switching state, with one pushbutton per output for toggling the output in direct operation mode, operational if device supplied with 230 V AC (even if there is no bus voltage or if bus communication is not operational), with selection between identical or individual configuration of the outputs, with operating mode configurable for each output (normal operation, timer operation), with adjustable on/off delay, with selectable logic operation (AND/OR) between two communication objects and configurable start value of the logic operation at mains voltage recovery, with optional night mode object per output for time limited activation of the output at night mode, with adjustable On-period for night or timer mode, with selectable warning: 3 x On/Off (flashing) warns of impending switch-off in night or timer mode, with optional status indication object per output, with transmission of status on request and/or automatically after changes, with optional 8-bit scene control object, with integrated 8 bit scene control and assignment of each output to up to 8 scenes, with configurable switch state of each output after mains voltage recovery, with integrated bus coupling unit with only half a standard bus load, with bus connection via bus terminal and contact system to data-rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 Modular Width = 18 mm)					
					
<b>N 567/11 switch actuator, 8 x 230 V AC, 8 A</b> rated current 8 A at p.f. = 1, with unchanged state of all outputs in case of mains voltage failure.	<b>5WG1 567-1AB11</b>	1	030	0.270	
<b>N 567/12 switch actuator, 8 x 230 V AC, 2 A</b> rated current 2 A at p.f. = 1, with forced switch-over of all outputs to Off in case of mains voltage failure.	<b>5WG1 567-1AB12</b>	1	030	0.270	

## Binary output devices

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>N 512 load switches</b> with one potential-free relay contact per output, with slide switch per output for manual operation and switch position indication, with each output configurable as NC contact / NO contact, with configurable timer operation, with configurable On/Off delay, with selectable logic operation (AND/OR) of two communication objects and configurable start value of the logic operation at bus voltage recovery, with object for status indication per output, with object for forced operation, with configurable switch state of each output in case of bus voltage failure and after bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 8 MW (1 Modular Width = 18 mm)			1	030 0.516
	<b>N 512 load switch, 8 x 230 V AC, 16 A, C-load</b> rated voltage 230 V AC, rated current 16 A for AC3 utilization categories acc. to EN 60947-4-1.	<b>5WG1 512-1AB01</b>		1	030 0.516
	<b>N 512 load switch, 8 x 230 V AC, 20 A (UL listed)</b> rated voltage 347 V AC, rated current 20 A at p.f. = 1.	<b>5WG1 512-1CB01</b>		1	030 0.516
	<b>GE 561 binary output devices, 3 x 230 V AC, 10 A</b> with one potential-free relay contact per output, rated voltage 230 V AC, rated current 10 A at p.f. = 1, with selectable programs for the independent switching On/Off of all outputs, either with direct operation or with forced control, with status objects, with logic operation (AND/OR) of two communication objects for channel A, with contacts configurable as NC contact / NO contact, with configurable output state in case of bus voltage failure and bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, as built-in device. Dimensions (HxWxD): 42 x 274.5 x 28 mm				
	<b>GE 561 binary output device, 3 x 230 V AC, 10 A</b>	<b>5WG1 561-4AB02</b>		1	030 0.140
	<b>GE 561 binary output device, 3 x 230 V AC, 10 A (UL listed)</b>	<b>5WG1 561-4CB01</b>		1	030 0.140
	<b>UP 562/01 binary output device, 2 x 230 V AC, 10 A, with PEI</b> with one potential-free relay contact per output, rated voltage 230 V AC, rated current 10 A at p.f. = 1, with PEI socket (for clipping on a bus pushbutton, single to quadruple), with selectable programs for the independent switching On/Off of all outputs, either with direct operation or with forced control, with contacts configurable as NC contact / NO contact, with logic function (AND/OR), with status objects, with configurable output state in case of bus voltage failure and bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, with hanger, for installation in flush-mounting switch and socket boxes, 60 mm in diameter, 60 mm deep. Dimensions (HxWxD): 71 x 71 x 40 mm	<b>5WG1 562-2AB01</b>		1	030 0.080
	<b>UP 562/11 binary output device, 2 x 230 V AC, 10 A, without PEI</b> with one potential-free relay contact per output, rated voltage 230 V AC, rated current 10 A at p.f. = 1, with selectable programs for the independent switching On/Off of all outputs, either with direct operation or with forced control, with contacts configurable as NC contact / NO contact, with logic function (AND/OR), with status objects, with configurable output state in case of bus voltage failure and bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, without PEI and without hanger, for installation in flush-mounting switch and socket boxes, 60 mm in diameter, 60 mm deep. Dimensions (HxWxD): 51 x 44 x 40 mm	<b>5WG1 562-2AB11</b>		1	030 0.055
	<b>UP 511 load switch, 1 x 230 V AC, 16 A</b> with one potential-free relay contact, rated voltage 230 V AC, rated current 16 A at p.f. = 1, either with direct operation or with forced control, with contact configurable as NC contact / NO contact, with logic function (AND/OR), with locking function, with safety function for monitoring of the communication with a sensor and with switching to a configured state in case of communication failure, with status object, with configurable output state in case of bus voltage failure and bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, for installation in flush-mounting wall or ceiling boxes with 60 mm in diameter. Dimensions (HxWxD): 50 x 50 x 30 mm	<b>5WG1 511-2AB01</b>		1	030 0.070

\* You can order this quantity or a multiple thereof.

# Output Devices

## Switchable outlets

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>DELTA profil</b>					
	<b>UP 563 switchable outlets, 10 A</b>				
	for clipping onto SCHUKO outlet device contact blocks (with or without status display) of the Siemens DELTA flush-mounting product range, as switch actuator for 230 V AC, 10 A at p.f. = 1, either with direct operation or with forced control, with configurable timer operation, with configurable On/Off delay, with logic operation (AND/OR), with status object, with configurable output state in case of bus voltage failure and bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, for mounting in junction boxes with 60 mm in diameter, 60 mm deep.				
	Including distance frame in DELTA profil design.				
	The Schuko outlet (with status display) and the matching frame must be ordered separately; if using a flush-mounting junction box together with the respective 24-mm leveling ring you can dispense with the distance frame.				
	Dimensions (HxWxD): 46 x 46 x 30 mm				
	<ul style="list-style-type: none"><li>• pearl gray</li><li>• titanium white</li><li>• anthracite</li><li>• silver</li></ul>	<b>5WG1 563-2AB01</b> <b>5WG1 563-2AB11</b> <b>5WG1 563-2AB21</b> <b>5WG1 563-2AB71</b>	1 1 1 1	030 030 030 030	0.051 0.051 0.051 0.051

# 3

## Input Devices

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Analog input devices  
Binary input devices

3

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# Input Devices

## Analog input devices

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>N 670 universal I/O module, 2 x universal I/O, 2 x Pt1000 input, 2 x relay output, 230 V AC, 10 A</b>	5WG1 670-1AB03	1	030	0.220

with 2 universal inputs/outputs, each configurable as either analog input 0-10 V DC, analog output 0-10 V DC, binary input for 10 V DC or binary output for 10 V DC, analog input with limit value monitoring and indication, with adjustable limit values and hysteresis, analog output with adjustable lower and upper limit of the output voltage, with adjustable voltage value in case of bus voltage failure and recovery, binary input with edge evaluation, binary output with adjustable switching position in case of bus voltage failure and recovery, with 2 inputs for direct connection of temperature sensors with Pt1000 measuring elements for temperature measurement in the range -25 to +45 Grad C, with limit value monitoring and indication, with adjustable limit values and hysteresis, with 2 binary outputs, relay contacts rated for 230 V AC, 10 A at p.f. = 1, configurable as NO contact/NC contact, with forced control, with configurable switching position in case of bus voltage failure and recovery, with power supply of the electronics by an external power supply for 24 V AC/DC, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5.  
The external power supply unit with 24 V AC/DC must be ordered separately (e.g. LOGO!Power 6EP1 331-1SH01)  
Width 4 MW (1 Modular Width = 18 mm)

## Binary input devices

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>N 260 binary input device, 4 x 230 V AC</b>	<b>5WG1 260-1AB01</b>		1	030 0.105
	with 4 inputs for 230 V AC from different outer conductors (L1, L2, L3) with shared reference potential (N), with a length of unshielded connecting cable per input of max. 100 m, with selectable programs for scanning and transmission of signal states or for the detection of signal changes and the transmission of switching, dimming or solar protection commands, depending on the program, with configurable minimum duration for long pulse, with configurable contact debounce time, with configurable function: toggle, switch On/Off, switch On/Off and dim (dimming with stop telegram or dimming with cyclic transmission), transmit value or solar protection control, with On or Off switching or value transmission at either rising and/or falling edge, with distinction between short and long pulse for On/Off, for control of dimming and solar protection control, with immediate or delayed transmission of object value, with configurable event-controlled and/or cyclic transmission of object value, with configurable status message in case of bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 Modular Width = 18 mm)				
	<b>N 261 binary input devices, 4 x 24 V AC/DC</b>	<b>5WG1 261-1AB01</b>		1	030 0.105
	with 4 inputs for 24 V AC/DC with shared reference potential (-), with a length of unshielded connecting cable per input of max. 100 m, with selectable programs for scanning and transmission of signal states or for the detection of signal changes and the transmission of switching, dimming or solar protection commands, depending on the program, with configurable minimum duration for long pulse, with configurable contact debounce time, with configurable function: toggle, switch On/Off, switch On/Off and dim (dimming with stop telegram or dimming with cyclic transmission), transmit value or solar protection control, with On or Off switching or value transmission at either rising and/or falling edge, with distinction between short and long pulse for On/Off, for control of dimming and solar protection, with immediate or delayed transmission of object value, with configurable event-controlled and/or cyclic transmission of object value, with configurable status message in case of bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 Modular Width = 18 mm)				
	<b>N 261 binary input device, 4 x 24 V AC/DC</b>	<b>5WG1 261-1AB01</b>	1	030	0.105
	<b>N 261 binary input device, 4 x 24 V AC/DC (UL listed)</b>	 <b>5WG1 261-1CB01</b>	1	030	0.105

# Input Devices

## Binary input devices

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>N 263E_1 binary input devices</b> with a length of unshielded connecting cable per input of max. 100 m, with an integrated power supply for AC 230 V to supply the electronics, with one green LED for displaying the 230 V operating voltage, with one red LED per input for display of the signal status, with freely configurable function per input: switch status / binary value transmission, switching edge-triggered, switching on short / long pulse, 1-button dimming, 1-button solar protection control, 1-button group control (sequence control), 1-bit Scene control, 8-bit Scene control, 8-bit value transmission edge-triggered, 8-bit value transmission on short / long pulse, 16-bit floating point value transmission on short / long pulse, 8-bit pulse counting without limit monitoring, 8-bit pulse counting with limit monitoring, 16-bit pulse counting without limit monitoring, 16-bit pulse counting with limit monitoring, 32-bit pulse counting without limit monitoring, 32-bit pulse counting with limit monitoring, with freely configurable function per pair of inputs: 2-button dimming with stop telegram, 2-button solar protection control, with selectable locking / releasing of each input by a locking object, with transmission of the input objects after a change of status, with configurable cyclic transmission of the input objects, with integrated bus coupling unit with only half a standard bus load, with bus connection via bus terminal and via contact system to the data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 6 MW (1 Modular Width = 18 mm)					
<b>N 263E01 binary input device, 8 x 12...230 V AC/DC</b> with 8 inputs for AC or DC voltages in the range of 12...230 V.	<b>5WG1 263-1EB01</b>	1	030	0.280	
<b>N 263E11 binary input device, 16 x AC 12...230 V / DC 12...115 V</b> with 16 inputs for AC voltages in the range of 12...230 V or DC voltages in the range of 12...115 V.	<b>5WG1 263-1EB11</b>	1	030	0.325	
<b>GE 262 binary input device, 4 x potential-free contacts</b> with 4 inputs for potential-free contacts, with a length of unshielded connecting cable per input of max. 100 m, with generation of the sensing voltage, with configurable contact debounce time, with selectable programs for scanning and transmission of contact-switching states or for the detection of switching/push-button actuations and transmission of switching, dimming or solar protection commands, depending on the program, with configurable minimum duration for long button press, with configurable contact type per input (NC contact/NO contact), with configurable function: toggle, switch On/Off, switch On/Off and dim (dimming with stop telegram or dimming with cyclic transmission), value transmission or solar protection control, with On or Off switching or value transmission at either rising and/or falling edge, with distinction between short and long button press for On/Off, for control of dimming and solar protection control, with immediate or delayed transmission of object value, with configurable event-controlled and/or cyclic transmission of object value, with configurable status message in case of bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, as built-in device. Dimensions (HxWxD): 42 x 274.5 x 28 mm	<b>5WG1 262-4AB02</b>	1	030	0.140	

# Input Devices

## Binary input devices

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>UP 220/02 pushbutton interfaces, 4 x potential-free contacts</b> with 4 inputs for potential-free contacts, with generation of the sensing voltage, with plug-in 8-wire cable set, 280 mm long, extendable to a max. of 5m, with selectable function per input or pair of inputs for scanning and transmission of contact-switching states or for the detection of switching/pushbutton actuations and transmission of switching, dimming or solar protection commands, with configurable contact debounce time, with configurable contact type per input or pair of inputs (NC contact/NO contact), with configurable minimum duration for long button press, with configurable function: toggle, switch On/Off, switch On/Off and dim (dimming with stop telegram or dimming with cyclic transmission), 1-button dimming, solar protection control or value transmission, with On or Off switching or value transmission at either rising and/or falling edge, with distinction between short and long button press for On/Off, for control of dimming and solar protection control, with configurable event-controlled and/or cyclic transmission of object value, with configurable transmission of object value in case of bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, for insertion in flush-mounting switch and socket boxes, 60 mm in diameter and 60 mm deep. Dimensions (HxWxD): 38 x 43 x 17,6 mm				
<b>UP 220/02 binary input device, 4 x potential-free contacts</b>	<b>5WG1 220-2AB02</b>	1	030	0.043	
<b>UP 220/02 binary input device, 4 x potential-free contacts (UL listed)</b>	<b>5WG1 220-2CB02</b>	1	030	0.043	
	<b>UP 220/3 pushbutton interfaces</b> with generation of the sensing voltage, with plug-in cable set, 280 long, extendable to a max. of 10 m, with selectable programs for scanning and transmission of contact-switching states or for the detection of switching/pushbutton actuations and transmission of switching, dimming or solar protection commands, with configurable contact debounce time, with configurable contact type per input or pair of inputs (NC contact/NO contact), with configurable minimum duration for long button press, with configurable function toggle, switch On/Off, switch On/Off and dim (dimming with stop telegram), 8-bit scene control, solar protection control or value transmission, with On or Off switching or value transmission at either rising and/or falling edge, with distinction between short and long button press for On/Off, for control of dimming and solar protection control, with configurable event-controlled and/or cyclic transmission of object value, with configurable transmission of object value in case of bus voltage recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, for insertion in flush-mounting switch and socket boxes, 60 mm in diameter and 40 mm deep. Dimensions (HxWxD): 42 x 42 x 8.5 mm (in the area of the bus terminal, 11 mm high)				
	<b>UP 220/03 pushbutton interface, 4 x potential-free contacts</b> with 4 inputs for potential-free contacts.	<b>5WG1 220-2AB03</b>	1	030	0.020
	<b>UP 220/13 pushbutton interface, 2 x potential-free contacts</b> with 2 inputs for potential-free contacts.	<b>5WG1 220-2AB13</b>	1	030	0.015

# Input Devices

Notes



# Input/Output Devices

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Input/output devices

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# Input/Output Devices

## Input/output devices

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
				1 unit	Unit(s)	kg
	<b>N 670 universal I/O module, 2 x universal I/O, 2 x Pt1000 input, 2 x relay output, 230 V AC, 10 A</b> with 2 universal inputs/outputs, each configurable as either analog input 0-10 V DC, analog output 0-10 V DC, binary input for 10 V DC or binary output for 10 V DC, analog input with limit value monitoring and indication, with adjustable limit values and hysteresis, analog output with adjustable lower and upper limit of the output voltage, with adjustable voltage value in case of bus voltage failure and recovery, binary input with edge evaluation, binary output with adjustable switching position in case of bus voltage failure and recovery, with 2 inputs for direct connection of temperature sensors with Pt1000 measuring elements for temperature measurement in the range -25 to +45 Grad C, with limit value monitoring and indication, with adjustable limit values and hysteresis, with 2 binary outputs, relay contacts rated for 230 V AC, 10 A at p.f. = 1, configurable as NO contact/NC contact, with forced control, with configurable switching position in case of bus voltage failure and recovery, with power supply of the electronics by an external power supply for 24 V AC/DC, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. The external power supply unit with 24 V AC/DC must be ordered separately (e.g. LOGO!Power 6EP1 331-1SH01) Width 4 MW (1 Modular Width = 18 mm)	5WG1 670-1AB03		1	030	0.220
	<b>N 605 thermal drive actuator with 6 inputs and 6 outputs</b> for control of electrothermal actuators for small valves for heaters and cooling ceilings, with 6 inputs for connection of potential-free contacts, with a length of unshielded connecting cable per input of max. 50 m, with generation of the sensing voltage, with configurable contact type (NO contact/NC contact), with configurable transmission of input status objects on request, in case of change, cyclically and/or in case of bus or system voltage recovery, with 6 outputs, each with a silent semiconductor switch, each rated for 230 V AC, a short-term load current of max. 1.5 A and a resistive steady-state load of max. 12 W (i.e. max. 4 parallel connected thermal drives permissible per output, each with 3 W steady-state load), with electronic protection of outputs against overload and short circuit, with signaling of a short-circuited or overloaded output and de-energizing of this output, with configurable valve open and close time, with configurable valve state (open or closed) in case of de-energized output, with adjustment to a non-linear valve characteristic curve, with configurable control per output either by control commands in percentage or by On/Off switching commands, with conversion of percentage control commands into pulse width modulated switching commands, with per output configurable position in case of an open window, with transmission of an output status object on request or if the switching state changes, with configurable behavior per output in case of bus power failure, with optional calcification protection, with electronics powered by an integrated power supply unit for 230 V AC, with one yellow LED for operation and group indication, with 3 red LEDs for switching status indication of a group of 3 outputs, with 3 pushbuttons for manual switching of the outputs of a group, with device operation independent of bus voltage, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 6 MW (1 Modular Width = 18 mm)	5WG1 605-1AB01		1	030	0.434

# Input/Output Devices

## Input/output devices

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)		kg
	<b>N 605/11 thermal drive actuator for control of 2 heating/cooling ceilings</b>	<b>5WG1 605-1AB11</b>		1	030 0.434
	for control of electrothermal actuators for small valves of heating/cooling ceilings, with 6 inputs for connection of potential-free contacts, with a length of unshielded connecting cable per input of max. 50 m, with generation of the sensing voltage, with configurable contact type (NO contact/NC contact), with configurable transmission of the input status object on request, in case of change, cyclically and/or in case of bus or system voltage recovery, with 6 outputs, each with a silent semiconductor switch, divided into 2 groups, each group with 3 outputs and fixed assignment of the outputs to the inlet and return valves of one heating/cooling ceiling, outputs each rated for 230 V AC, a short-term load current of max. 0.5 A, and a resistive steady-state load of max. 6 W (parallel connected thermal drives permissible per output, each with 3 W steady-state load), with configurable valve opening or closing time, with electronic protection of the outputs against overload and short circuit, with signaling of a short-circuited or overloaded output and disconnection of all outputs of the affected group from the supply, with control of all outputs by On/Off switching commands, with transmission of an output status object on request or if the switching state changes, optionally with automatic switchover of the return valve between heating and cooling operation or with switchover of the return valve via an object, with de-energizing of the return valve output if both inlet valves are closed, with configurable behavior of outputs in case of bus power failure, with electronics powered by an integrated power supply unit for 230 V AC, with one yellow LED for operation and group indication, with 3 red LEDs for switching status indication of the outputs of a group, with 2 pushbuttons for manual switching of the inlet valves and the valve group, with device operation independent of bus voltage, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 6 MW (1 Modular Width = 18 mm)				
	<b>N 526/02 switch/dimming actuator, triple, 230 V AC, 50/60 Hz, 6 A, with integrated constant light level control</b>	<b>5WG1 526-1AB02</b>		1	030 0.458
	with configurable operation per channel as a switch/dimming actuator or as constant light level controller in master or slave mode, with 3 control voltage outputs 1-10V DC, control power max. 50 OSRAM dimmable electronic ballasts each, with 3 switching outputs (relay contacts) for 230 V AC, 50/60 Hz, 6 A at p.f. = 1, with 3 inputs for connection of one UP 255 or AP 255 brightness sensor each over an up to 100 m long 3-wire cable, which also provides power to the sensor electronics, with communication object for the transmission of measured brightness values, with communication objects per actuator channel for control of operating modes: comfort mode, automatic mode and night mode, as well as for switching, dimming and value-setting, with time-limited activation of the lighting during night mode (base lighting) and warning 1 minute prior to imminent switch off by dimming to 50 % of the previous dimming value, with automatic switchover to manual mode of an actuator channel in automatic mode for constant light level control in case of pressing a bus pushbutton for manual switching and dimming of this channel (i.e. constant light level control is disabled in manual mode), with a dimming value status object per channel, with electronics powered by an integrated power supply unit for 230 V AC, with a green LED for status display, with one pushbutton each per actuator channel for local switching of the outputs or for starting sensor calibration, integrated into the actuator casing and operational even if the bus cable is not yet installed or in case of bus voltage or communication failure, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Per relay output: connection of max. 30 OSRAM ECG dynamic for 1x36W or max. 20 ECG for 1x58W or max. 15 ECG for 2x36W or max. 10 ECG for 2x58W fluorescent lamps; for matching indoor brightness sensors: see page 5/7. Width 6 MW (1 Modular Width = 18 mm)				
	<b>N 266 detector group terminal with 4 monitored inputs for passive detectors</b>	<b>5WG1 266-1AB01</b>		1	030 0.180
	for the monitored connection of passive detectors (e.g. window contacts) and for the connection of potential-free contacts in applications with increased safety demands, with 4 detector group inputs, each with one LED for status display, with two 12 V outputs "run test" and "armed/disarmed" for the control of passive infrared motion detectors, with armed/disarmed switching of the detector group terminal via a communication object, with failure message in case of short circuit or interruption of a signal line, electronics powered by an external voltage source for 12 V DC, max. 50 mA, with monitoring of the external power supply, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 Modular Width = 18 mm)				

\* You can order this quantity or a multiple thereof.

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# Input/Output Devices

Notes

<b>Lighting</b>	5/2	Trailing-edge phase dimmers
	5/3	Universal dimmers
	5/4	Switch/dimming actuators
	5/7	Light level control
<b>Sun/Anti-Glare Protection, Utilization of Daylight</b>	5/9	Anti-glare/sun protection actuators
	5/13	Weather stations
	5/14	Weather sensors
<b>Heating, Cooling, Ventilation, Air Conditioning</b>	5/15	Sensors for HVAC
	5/16	Controllers for HVAC
	5/20	Actuators for HVAC
	5/22	Valve actuators for HVAC
<b>Load Management</b>	5/23	Load management
<b>Safety</b>	5/24	Intrusion
	5/25	Leakage
<b>Quick-Assembly System</b>	5/26	Modular quick-assembly system
	5/28	Quick-assembly system controls, flat

# Devices for Special Applications

## Lighting

### Trailing-edge phase dimmers

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>UP 525/01, trailing-edge phase dimmer 230 V AC, 250 VA, with PEI</b> for the dimming of incandescent lamps, HV halogen lamps and LV halogen lamps with electronic transformer, rated voltage AC 230 V, 50 Hz, dimmable load 20 - 250 VA, with electronic protection against overload and short circuit, with integrated PEI for clipping on a bus pushbutton (single to quadruple), with freely programmable function for a clipped-on bus pushbutton: toggle, switch On/Off, switch On/Off and dim, transmit value and solar protection control, with switching On or Off at either rising and/or falling edge, with distinction between short and long button press for On/Off, for control of dimming, solar protection and scene control, with save and recall of 1-bit scenes when used together with scene modules, with use of the pushbutton LEDs as orientation light and/or for status indication, with continuous dimming, value transmission and status request, with configurable dimming period, with jumping or dimming to a new dimming value, with store and recall of the current dimming value in case of bus voltage failure and recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, with hanger for installation in flush-mounting switch and socket boxes with 60 mm diameter and 60 mm depth, degree of protection IP 20. The connection of inductive loads (e.g. of LV halogen lamps with conventional transformers) is not permissible and may permanently damage the dimmer! Dimensions (HxWxD): 71 x 71 x 40 mm	5WG1 525-2AB01	1	030	0.055	
	<b>UP 525/11, trailing-edge phase dimmer 230 V AC, 250 VA, without PEI</b> for the dimming of incandescent lamps, HV halogen lamps and LV halogen lamps with electronic transformer, rated voltage AC 230 V, 50 Hz, dimmable load 20 - 250 VA, with electronic protection against overload and short circuit, with continuous dimming, value transmission and status request, with configurable dimming period, with jumping or dimming to a new dimming value, with store and recall of the current dimming value in case of bus voltage failure and recovery, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, without PEI and without hanger, for installation in flush-mounting switch and socket boxes with 60 mm diameter and 60 mm depth, degree of protection IP 20. The connection of inductive loads (e.g. of LV halogen lamps with conventional transformers) is not permissible and may permanently damage the dimmer! Dimensions (HxWxD): 51 x 44 x 40 mm	5WG1 525-2AB11	1	030	0.055	

#### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>Universal dimmers</b> for switching and dimming of incandescent lamps, HV halogen lamps, LV halogen lamps with conventional or electronic transformers, with automatic detection of the connected load type and automatic setting to leading-edge phase or trailing-edge phase control, rated voltage 230 V AC, 50/60 Hz, dimmable load 20 - 500 VA, with electronic protection against overload and short circuit, with switching On/Off, dimming and setting value, with configurable On/Off delay, with configurable dimming range and dimming value when switched On and configurable dimming period, with jumping or dimming to a new dimming value, with store and recall of the current dimming value in case of bus voltage failure and recovery, with changing of dimming value in Off state without activation of the load, with transmission of status objects upon request or automatically upon change, with signalling of overload and short circuit via the bus, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 Modular Width = 18 mm)				
<b>N 527/02 universal dimmer, 230 V AC, 50/60 Hz, 20 ... 500 VA</b>	<b>5WG1 527-1AB02</b>	1	030	0.216	
<b>N 528/02 universal dimmer, 230 V AC, 50/60 Hz, 20 ... 250 VA</b>	<b>5WG1 528-1AB02</b>	1	030	0.216	

# Devices for Special Applications

## Lighting

### Switch/dimming actuators

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>N 525/02 switch/dimming actuators, single</b> for switching and dimming of fluorescent lamps with dimmable electronic control gear (ECG), with control voltage output 1-10 V DC, control power max. 50 OSRAM ECG dynamic, with switching output (relay contact), with mechanical switch position indication, which can also be used for direct manual control of the switching output, with the following configurable functions: switch On/Off, dim, set value, with configurable output state in case of bus voltage failure and bus voltage recovery, with configurable switch-on value, with switch-off when dimming down to the minimum dimming value, with modification of dimming value in the Off state without load activation, with two dimming speeds, with status request, with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system for data rail, for mounting on DIN rail EN 60715-TH35-7.5. Relay contact rated for connection of max. 30 OSRAM ECG dynamic for 58 W fluorescent lamps. Width 4 MW (1 Modular Width = 18 mm)					
	<b>N 525/02 switch/dimming actuator, single, 230 V AC, 50/60 Hz, 16 A</b>	5WG1 525-1AB02	1	030	0.170	
	<b>N 525/02 switch/dimming actuator, single, 277 V AC, 50/60 Hz, 16 A (UL listed)</b>	5WG1 525-1CB02	1	030	0.170	
	<b>N 526/02 switch/dimming actuator, triple, 230 V AC, 50/60 Hz, 6 A, with integrated constant light level control</b> with configurable operation per channel as a switch/dimming actuator or as constant light level controller in master or slave mode, with 3 control voltage outputs 1-10V DC, control power max. 50 OSRAM dimmable electronic ballasts each, with 3 switching outputs (relay contacts) for 230 V AC, 50/60 Hz, 6 A at p.f. = 1, with 3 inputs for connection of one UP 255 or AP 255 brightness sensor each over an up to 100 m long 3-wire cable, which also provides power to the sensor electronics, with communication objects for the transmission of measured brightness values, with communication objects per actuator channel for control of operating modes: comfort mode, automatic mode and night mode, as well as for switching, dimming and value-setting, with time-limited activation of the lighting during night mode (base lighting) and warning 1 minute prior to imminent switch off by dimming to 50 % of the previous dimming value, with automatic switchover to manual mode of an actuator channel in automatic mode for constant light level control in case of pressing a bus pushbutton for manual switching and dimming of this channel (i.e. constant light level control is disabled in manual mode), with a dimming value status object per channel, with electronics powered by an integrated power supply unit for 230 V AC, with a green LED for status display, with one pushbutton each per actuator channel for local switching of the outputs or for starting sensor calibration, integrated into the actuator casing and operational even if the bus cable is not yet installed or in case of bus voltage or communication failure, with integrated bus coupling unit, bus connection via bus terminal, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Per relay output: connection of max. 30 OSRAM ECG dynamic for 1x36W or max. 20 ECG for 1x58W or max. 15 ECG for 2x36W or max. 10 ECG for 2x58W fluorescent lamps; for matching indoor brightness sensors: see page 5/7. Width 6 MW (1 Modular Width = 18 mm)	5WG1 526-1AB02	1	030	0.458	

## Switch/dimming actuators

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)		kg
	<b>N 526E switch/dimming actuator, 8-fold, 230 V AC, 50/60 Hz, 16 A</b>	5WG1 526-1EB01	1	030	0.517
	for switching and dimming of eight mutually independent groups (channels) of fluorescent lamps with dimmable electronic control gear (ECG), with 8 control voltage outputs 1-10 V DC, control power max. 60 OSRAM ECG dynamic each, with 8 switching outputs (relay contacts) for 230 V AC, 50/60 Hz, 16 A at p.f. = 1, with slide switch per output for manual operation and switch position indication, with command objects for each actuator channel for switching On/ Off, dimming brighter/darker and set/value, with one 1-bit and one 8-bit-status object (switching state and dimming value), with per channel configurable time-limited activation of the lighting during night mode (base lighting) and warning 1 minute prior to imminent switch Off by dimming to 50 % of the previous dimming value, with transmission of status objects on request, cyclically and/or automatically after changes, with switching On or Off of a channel by dimming brighter/darker, with configurable dimming value upon switching On, with jumping or dimming to a new dimming value, with configurable dimming time from 0% to 100%, with configurable behaviour on bus voltage failure and recovery, with bus-powered electronics, with integrated bus coupling unit with double bus load, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Per relay output: connection of max. 30 OSRAM ECG dynamic for 58 W fluorescent lamps. Width 8 MW (1 Modular Width = 18 mm)				
	<b>N 525E switch/dimming actuator, 8 x DALI</b>	5WG1 525-1EB01	1	030	0.300
	for switching and dimming of eight mutually independent groups (channels) of fluorescent lamps with dimmable electronic control gear (ECG) with DALI interface, with 8 DALI outputs with control power for up to 8 DALI electronic ballasts each, with electronics and DALI outputs powered by an integrated power supply unit for 230 V AC, with a green LED for displaying the 230 V operating voltage, with a pushbutton for switching between bus and direct operation mode for all DALI outputs and for selection of a group of 4 DALI outputs for direct operation, with a yellow LED to display which of the four DALI outputs is activated in direct mode, with 1 red LED per DALI output for display of the switching state or a fault (e.g. lamp failure) of the connected group, with four pairs of pushbuttons for the operation of 4 DALI outputs in direct mode, operational if device supplied with 230 V AC (even if there is no bus voltage or if bus communication is not operational), with selection between identical or individual configuration of the outputs, with per DALI output configurable operating mode (normal mode, timer mode single-step or dual-step), with command objects for each DALI output for switching On/Off, dimming brighter/darker and set value, with up to four optional status objects per DALI output (switching state, dimming value status, lamp failure and DALI status), with transmission of status objects on request, cyclically and/or automatically after changes, with one optional object per DALI output for time-limited switching of lighting in night mode, with warning 1 minute prior to imminent switch Off by dimming to 50 % of the previous dimming value in night or timer mode, with switching On or Off of a channel by dimming brighter/darker, with configurable dimming value upon switching On, with jumping or dimming to a new dimming value, with configurable dimming time from 0% to 100%, with configurable behaviour on bus or mains voltage failure and on bus or mains voltage recovery, with optional object for control of the integrated 8-bit scene control, with up to 16 scenes per DALI output, with integrated bus coupling unit with only half a standard bus load, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 Modular Width = 18 mm)				

# Devices for Special Applications

## Lighting

### Switch/dimming actuators

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
 <p><b>GE 525/02 switch/dimming actuator, single, 230 V AC, 50/60 Hz, 10 A</b></p> <p>for switching and dimming of fluorescent lamps with dimmable electronic control gear (ECG), with control voltage output 1-10 V DC, control power max. 50 OSRAM ECG dynamic, with switching output (relay contact) rated 230 V AC, 50/60 Hz, 10 A at p.f. = 1, with the following configurable functions: switch On/Off, dim, set value, with configurable output state in case of bus voltage failure and recovery, with configurable switch-on value, with switch-off when dimming down to 0 %, with modification of dimming value in the Off state without load activation, with configurable dimming speed, with status request, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, as built-in device, suitable for installation in luminaires for fluorescent lamps.</p> <p>Relay contact rated for connection of max. 10 OSRAM ECG dynamic for 58W or 15 ECG for 36W fluorescent lamps.</p> <p>Dimensions (HxWxD): 42 x 274.5 x 28 mm</p>	<b>5WG1 525-4AB02</b>	1/4	030	0.140	
 <p><b>GE 526 switch/dimming actuator, single, 230 V AC, 50/60 Hz, 10 A (to be discontinued)</b></p> <p>for switching and dimming of fluorescent lamps with dimmable electronic control gear (ECG), with control voltage output 1-10 V DC, control power max. 50 OSRAM ECG dynamic, with switching output (relay contact) rated 230 V AC, 50/60 Hz, 10 A at p.f. = 1, with the following configurable functions: switch On/Off, dim, set value, with configurable output state in case of bus voltage failure and recovery, with configurable switch-on value, with switch-off when dimming down to 0 %, with modification of dimming value in the Off state without load activation, with configurable dimming speed, with status request, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, as built-in device, suitable for installation in luminaires for fluorescent lamps.</p> <p>Relay contact rated for connection of max. 10 OSRAM ECG dynamic for 58W or 15 ECG for 36W fluorescent lamps.</p> <p>Dimensions (HxWxD): 28 x 336 x 28 mm</p>	<b>5WG1 526-4AB01</b>	1/5	030	0.140	

## Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>N 526/02 switch/dimming actuator, triple, 230 V AC, 50/60 Hz, 6 A, with integrated constant light level control</b>	<b>5WG1 526-1AB02</b>	1	030	0.458
	with configurable operation per channel as a switch/dimming actuator or as constant light level controller in master or slave mode, with 3 control voltage outputs 1-10V DC, control power max. 50 OSRAM dimmable electronic ballasts each, with 3 switching outputs (relay contacts) for 230 V AC, 50/60 Hz, 6 A at p.f. = 1, with 3 inputs for connection of one UP 255 or AP 255 brightness sensor each over an up to 100 m long 3-wire cable, which also provides power to the sensor electronics, with communication objects for the transmission of measured brightness values, with communication objects per actuator channel for control of operating modes: comfort mode, automatic mode and night mode, as well as for switching, dimming and value-setting, with time-limited activation of the lighting during night mode (base lighting) and warning 1 minute prior to imminent switch off by dimming to 50 % of the previous dimming value, with automatic switchover to manual mode of an actuator channel in automatic mode for constant light level control in case of pressing a bus pushbutton for manual switching and dimming of this channel (i.e. constant light level control is disabled in manual mode), with a dimming value status object per channel, with electronics powered by an integrated power supply unit for 230 V AC, with a green LED for status display, with one pushbutton each per actuator channel for local switching of the outputs or for starting sensor calibration, integrated into the actuator casing and operational even if the bus cable is not yet installed or in case of bus voltage or communication failure, with integrated bus coupling unit, bus connection via bus terminal, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Per relay output: connection of max. 30 OSRAM ECG dynamic for 1x36W or max. 20 ECG for 1x58W or max. 15 ECG for 2x36W or max. 10 ECG for 2x58W fluorescent lamps; for matching indoor brightness sensors: see page 5/7. Width 6 MW (1 Modular Width = 18 mm)				
	<b>Indoor brightness sensors for N 526/02 switch/dimming actuator</b>				
	for measuring the brightness on an illuminated surface by measuring the reflected light, for the measuring range 0 - 1500 lux (at a reflection degree of the illuminated surface of approx. 30%), for direct connection to the N 526/02 switch/dimming actuator via a 3-wire cable with a length of up to 100 m, which also provides power to the sensor electronics, with plug-in extra-low voltage terminal for connection of the line to the N 526/02, includes two rigid optical fibre rods painted white: one with a light-sensitive surface parallel to the mounting surface and one with inclined (45°) light-sensitive surface.				
	<b>UP 255 indoor brightness sensor</b>	<b>5WG1 255-4AB01</b>	1	030	0.092
	for mounting in a cavity wall or flush-mounting box with 58 mm diameter and min. 40 mm mounting depth, with lid made of white plastic (polystyrene). Dimensions (HxWxD): 30 x 52 x 33 mm				
	<b>AP 255 indoor brightness sensor</b>	<b>5WG1 255-4AB02</b>	1	030	0.102
	for mounting to a ceiling or on the wall, including surface-mounting enclosure made of white plastic (polypropylene) with 70 mm diameter and 24 mm height. Dimensions (HxWxD): 30 x 72 x 33 mm				
	<b>N 342 light level control module</b>	<b>5WG1 342-1AB01</b>	1	030	0.092
	with ten mutually independent light control functions that control the indoor lighting depending on the outdoor light intensity, with shared current outdoor light intensity value for all 10 light control functions, with light intensity measured by a GE 253 outdoor brightness sensor and sent to the N 342, with separately configurable brightness curve per light control function, with optional configuration per light control function as continuous dimming control or as 2-step control with hysteresis, with automatic adaptation (shifting) of the respective brightness curve to the desired new indoor brightness when the dimming value is manually changed (e.g. using a bus pushbutton) and restoration of the original curve when the lighting is switched off, with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 1 MW (1 Modular Width = 18 mm)				

# Devices for Special Applications

## Lighting

### Light level control

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>Indoor brightness sensors</b>					
	for measuring and control of the workplace and/or floor lighting in a room, measuring range: 200 - 1900 lux for constant light level control, 0 - 2000 lux for transmission of the brightness value, comprising of a receiver (light sensor) and a converter (brightness controller), with application programs either for calibration or constant light level control or two-step control or for the transmission of the current brightness value recorded by the receiver, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, receiver for ceiling installation using a clamping spring and a rosette and with 2-m long 3-wire connecting cable, converter as built-in device with casing for installation in e.g. luminaires for fluorescent lamps, degree of protection IP 20.  The connecting cable of the receiver must not be extended.	<b>5WG1 252-4AB02</b>	1	030	0.345
	for applications e.g. with ceiling-mounted luminaires. Dimensions (HxWxD): Converter: 42 x 274.5 x 28 mm Receiver: 25 x 77.4 x 28.5 mm	<b>5WG1 254-4AB01</b>	1	030	0.345
	for measuring the outdoor light intensity (illuminance) from indoors at the window, measuring range: 0 - 16000 lux, comprising of a receiver (light sensor) and a converter for the conversion and transmission of the measured brightness value to a N 342 light level control module, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, receiver with set for mounting indoors at the window and with 2-m long 3-wire connecting cable, converter as built-in device (suitable e.g. for surface-mounting or for mounting in suspended ceilings), degree of protection IP 20.  The connecting cable of the receiver must not be extended. Dimensions (HxWxD): Converter: 42 x 274.5 x 28 mm Receiver: 25 x 65.7 x 28.5 mm	<b>5WG1 253-4AB01</b>	1	030	0.345

# Devices for Special Applications

## Sun Protection, Anti-Glare Protection, Utilization of Daylight

### Anti-glare/sun protection actuators

#### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>N 521 shutter/blind actuators, 2 x 2 drives 230 V AC</b> with two actuator channels, each with two electrically isolated outputs for the parallel control of a sun protection drive with AC motor for 230 V AC and electromechanical limit switches per output, with two electrically interlocked relays to reverse the direction of rotation, relay contacts rated for 230 V AC, 6 A at p.f. = 1, with automatic adaptation of objects and parameters to the selected drive type (Venetian blind or roller shutter) and the desired actuator functions, with communication objects per actuator channel for moving the solar protection to the top or bottom limit position or to stop travel and for step-by-step adjustment of the blind slats, with safety object for moving the sun protection to the configured safety position in case of a wind alarm, with blocking of travel to another position as long as wind alarm is pending, with configurable behavior in case of bus voltage failure, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 3 MW (1 Modular Width = 18 mm)				
	<b>N 521 shutter/blind actuator, 2 x 2 drives 230 V AC</b> relay contacts rated for 230 V AC, 50/60 Hz, 6 A at p.f. = 1.	<b>5WG1 521-1AB01</b>	1	030	0.150
	<b>N 521 shutter/blind actuator, 2 x 2 drives 230 V AC (UL listed)</b>  relay contacts rated for 120/277 V AC, 50/60 Hz, 6 A at p.f. = 1.	<b>5WG1 521-1CB01</b>	1	030	0.150
	<b>N 522/02 shutter/blind actuator, 4 drives 230 V AC</b> for separate control of a solar protection or window/door drive per actuator channel with AC motor for 230 V AC and electromechanical limit switches, with electrically interlocked relays to reverse the direction of rotation, relay contacts rated for 230 V AC, 6 A at p.f. = 1, with automatic adaptation of the communication objects and parameters to the selected drive type (Venetian blind or roller shutter) and operating mode, with communication objects per actuator channel for moving the solar protection to the top or bottom limit position or to stop travel and for step-by-step adjustment of the blind slats, with communication objects for moving the solar protection or adjusting the blind slats to an intermediate position (as precisely as drive mechanics permit) via positioning data as percentage value, to be used e.g. for sunlight tracking with greatest possible daylight component, with automatic opening of blind slats up to a configured position after the blind has reached the bottom position, with differentiation between automatic and manual mode and with automatic switchover from automatic to manual mode of the respective actuator channel on activation of a bus pushbutton for manual control of the solar protection, with priority of manual mode over automatic control commands, with status objects per actuator channel for request or automatic transmission of solar protection and slat position as percentage values, with safety object for moving the solar protection to the configured safety position in case of a wind alarm, with blocking of travel to another position as long as wind alarm is pending, with integrated electronics for detection of the activation of an electromechanical limit switch and automatic synchronization of the status objects, with electronics powered by an integrated power supply unit for 230 V AC, with a green LED for displaying the 230 V operating voltage, with two pushbuttons each per actuator channel for direct drive control, integrated in the actuator housing and operational even if the bus cable is not yet installed or in case of bus communication failure, with integrated bus coupling unit, bus connection via bus terminal, with 4 terminals per actuator channel for connection of all conductors (Up, Down, N, PE) of a drive cable, for mounting on DIN rail EN 60715-TH35-7.5. Width 6 MW (1 Modular Width = 18 mm)	<b>5WG1 522-1AB02</b>	1	030	0.450

# Devices for Special Applications

## Sun Protection, Anti-Glare Protection, Utilization of Daylight

### Anti-glare/sun protection actuators

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>N 523 shutter/blind actuators, 4 drives 230 V AC</b>  for separate control of a solar protection drive per actuator channel with AC motor for 230 V AC and electromechanical limit switches, with electrically interlocked relays to reverse the direction of rotation, relay contacts rated for 230 V AC, 6 A at p.f. = 1, with selection whether all actuator channels are to be configured identically or individually, with communication objects per actuator channel for moving the sun protection to the limit position or to stop travel, with status object per actuator channel for request or automatic transmission of solar protection position as percentage value, with alarm object for moving the solar protection to the configured safety position in case of wind alarm, with blocking of travel to another position, as long as wind alarm is pending, with electronics powered by an integrated power supply unit for 230 V AC, 50 Hz, with a pushbutton for toggling between bus and direct mode, with yellow LED for display of the activated direct mode, with two pushbuttons each per actuator channel for drive control in direct mode, integrated in the actuator housing and operational if supplied with 230 V AC and bus voltage, even if bus communication is not yet operational, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 Modular Width = 18 mm)					
	<b>N 523/02 Venetian blind actuator, 4 drives 230 V AC</b>  for control of Venetian blind or roller shutter drives, with automatic adaptation of the objects and parameters to the selected drive type and the desired actuator functions, with step-by-step adjustment of the blind slats, with status object per actuator channel for request or automatic transmission of slat position as percentage value, with automatic opening of blind slats up to a configured position after the blind has reached the bottom position, with save and recall of two solar protection intermediate positions, with separate blocking of up or down movement.	5WG1 523-1AB02	1	030	0.260
	<b>N 523/03 roller shutter actuator, 4 drives 230 V AC</b>  for control of drives for roller shutters or awnings, with automatic adaptation of the objects and parameters to the desired actuator functions, with configurable time for a brief travel upwards after the roller shutter has reached the bottom position, with save and recall of two solar protection intermediate positions, with separate blocking of up or down movement.	5WG1 523-1AB03	1	030	0.260
	<b>N 523/04 Venetian blind actuator, 4 drives 230 V AC</b>  for control of Venetian blind or roller shutter drives, with automatic adaptation of the objects and parameters to the selected drive type and the desired actuator functions, with step-by-step adjustment of the blind slats, with status object per actuator channel for request or automatic transmission of slat position as percentage value, with automatic opening of blind slats up to a configured position after the blind has reached the bottom position, with communication objects for moving the solar protection or adjusting the blind slats to an intermediate position (as precisely as drive mechanics permit) via positioning data as percentage value, to be used e.g. for sunlight tracking with greatest possible daylight component, with differentiation between automatic and manual mode and with automatic switchover from automatic to manual mode of the respective actuator channel on activation of a bus pushbutton for manual control of the solar protection, with priority of manual mode over automatic control commands, with an object either per device or per channel for blocking the travel.	5WG1 523-1AB04	1	030	0.260

# Devices for Special Applications

## Sun Protection, Anti-Glare Protection, Utilization of Daylight

### Anti-glare/sun protection actuators

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>N 524 shutter/blind actuator, 4 drives 6 ... 24 V DC</b>	5WG1 524-1AB01		1 030	0.422

for separate control of a solar protection, window, damper or valve drive per actuator channel with DC motor for 6...24 V DC and electromechanical limit switches, with electrically interlocked relays to reverse the direction of rotation, relay contacts rated for 24 V AC, 1 A, requires a common external stabilized DC power supply for all drives, with parallel operation of several drives permissible as long as the max. load current of 1 A per actuator channel is not exceeded, with automatic adaptation of the communication objects and parameters to the selected drive type (Venetian blind or roller shutter) and operating mode, with communication objects per actuator channel for moving the solar protection to the top or bottom limit position or to stop travel and for step-by-step adjustment of the blind slats, with communication objects for moving the solar protection or adjusting the blind slats to an intermediate position (as precisely as drive mechanics permit) via positioning data as percentage value, to be used e.g. for sunlight tracking with greatest possible daylight component, with automatic opening of blind slats up to a configured position after the blind has reached the bottom position, with differentiation between automatic and manual mode and with automatic switchover from automatic to manual mode of the respective actuator channel on activation of a bus pushbutton for manual control of the solar protection, with priority of manual mode over automatic control commands, with status objects per actuator channel for request or automatic transmission of solar protection and slat position as percentage values, with safety object for moving the solar protection to the configured safety position in case of a wind alarm, with blocking of travel to another position as long as wind alarm is pending, with electronics powered by an integrated power supply unit for 230 V AC, 50 Hz, with a green LED for displaying the 230 V operating voltage, with two pushbuttons each per actuator channel for direct drive control, integrated in the actuator housing and operational even if the bus cable is not yet installed or in case of bus communication failure, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5.

Width 6 MW (1 Modular Width = 18 mm)

# Devices for Special Applications

## Sun Protection, Anti-Glare Protection, Utilization of Daylight

### Anti-glare/sun protection actuators

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>GE 521 shutter/blind actuator, 1 x 2 drives 230 V AC</b> with one actuator channel with two electrically isolated outputs for the parallel control of a sun protection drive with AC motor for 230 V AC and electromechanical limit switches per output, with two electrically interlocked relays to reverse the direction of rotation, relay contacts rated for 230 V AC, 6 A at p.f. = 1, with automatic adaptation of objects and parameters to the selected drive type (Venetian blind or roller shutter) and the desired actuator functions, with communication objects for moving the solar protection to the top or bottom limit position or to stop travel and for step-by-step adjustment of the blind slats, with safety object for moving the sun protection to the configured safety position in case of a wind alarm, with blocking of travel to another position as long as wind alarm is pending, with programmable behavior in case of bus voltage failure, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, as built-in device. Dimensions (HxWxD): 42 x 274.5 x 28 mm	<b>5WG1 521-4AB02</b>	1	030	0.140	
	<b>UP 520/01 shutter/blind actuator, 1 x drive 230 V AC, with PEI</b> for control of a solar protection drive with AC motor for 230 V AC and electromechanical limit switches, with electrically interlocked relays to reverse the direction of rotation, relay contacts rated for 230 V AC, 6 A at p.f. = 1, with integrated PEI for clipping on a bus pushbutton single to quadruple, with selectable application program for the sensor part for switching, dimming, solar protection or scene control, with automatic adaptation of the actuator objects and parameters to the selected drive type (Venetian blind or roller shutter) and the desired actuator functions, with communication objects for moving the solar protection to the top or bottom limit position or to stop travel and for step-by-step adjustment of the blind slats, with configurable solar protection control via dimming commands, with safety object for moving the sun protection to the configured safety position in case of a wind alarm, with blocking of travel to another position as long as wind alarm is pending, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, with hanger, for installation in flush-mounting switch and socket boxes with 60 mm diameter and 60 mm depth.	<b>5WG1 520-2AB01</b>	1	030	0.080	
	<b>UP 520/11 shutter/blind actuator, 1 x drive 230 V AC, without PEI</b> for control of a solar protection drive with AC motor for 230 V AC and electromechanical limit switches, with electrically interlocked relays to reverse the direction of rotation, relay contacts rated for 230 V AC, 6 A at p.f. = 1, with automatic adaptation of the objects and parameters to the selected drive type (Venetian blind or roller shutter) and the desired actuator functions, with communication objects for moving the solar protection to the top or bottom limit position or to stop travel and for step-by-step adjustment of the blind slats, with configurable solar protection control using dimming commands, with safety object for moving the sun protection to the configured safety position in case of a wind alarm, with blocking of travel to another position as long as wind alarm is pending, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, without PEI and without hanger, for installation in flush-mounting switch and socket boxes with 60 mm diameter and 60 mm depth.	<b>5WG1 520-2AB11</b>	1	030	0.055	

\* You can order this quantity or a multiple thereof.

# Devices for Special Applications

## Sun Protection, Anti-glare Protection, Utilization of Daylight

### Weather stations

#### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>AP 257 weather stations</b> with inputs for the connection of wind, rain, temperature, light and dusk sensors, with logical combination of sensor signals for brightness, outdoor temperature, wind and rain for simultaneous control of sun and anti-glare protection located outdoors and indoors, with safety objects for e.g. moving the solar protection into the configured safety position and closing of roof windows, with transmission of all sensor data (brightness, temperature, wind, etc.) via the bus, with blocking of configured control processes within the weather station e.g. during window cleaning, with optional switching on/off of the automatic solar protection control by EIB telegrams, with configurable brightness thresholds and delay times to avoid repeated activation and deactivation of the solar protection system in case of rapidly changing light intensities (clouds) and retained priority for wind and rain monitoring, with monitoring of the wind rotor to trigger a safety telegram in case of wind rotor failure/damage, with electronics powered by an integrated power supply unit for AC 230 V, with integrated bus coupling unit, bus connection via bus terminal, for surface mounting, with degree of protection IP 54.					
<b>AP 257/01 weather station for 8 sensors</b> with one digital input for a S 258 wind sensor and 7 analog inputs. Dimensions (HxWxD): 160 x 250 x 55 mm	5WG1 257-3AB01	1	030	1.338	
<b>AP 257/11 weather station for 4 sensors</b> with one digital input for a S 258 wind sensor and 3 analog inputs. Dimensions (HxWxD): 150 x 200 x 55 mm	5WG1 257-3AB11	1	030	1.185	



# Devices for Special Applications

## Sun Protection, Anti-glare Protection, Utilization of Daylight

### Weather sensors

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>S 258 wind sensor, for weather station AP 257</b> for detection and transmission of the current wind speed, with failure monitoring of the wind rotor. The inner diameter of the mast must be 36 mm. No additional mast mounting is required. Dimensions: 35/150 x 178 mm (diameter of casing/wind rotor x height).					
	<b>S 258/02 wind sensor, heatable, for weather station AP 257</b> with wing brackage detection, with a permanently connected 5-m long 4-wire cable. The heater transformer M 258 (5WG1 258-8AB01) must be ordered separately.	5WG1 258-7AB02	1	030	0.950	
	<b>S 258/03 wind sensor, heatable, for weather station AP 257</b> without wing brackage detection, with a permanently connected 5-m long 4-wire cable. The heater transformer M 258 (5WG1 258-8AB01) must be ordered separately.	5WG1 258-7AB03	1	030	0.950	
	<b>S 258/13 wind sensor, not heatable, for weather station AP 257</b> without wing brackage detection, with a permanently connected 5-m long 3-wire cable.	5WG1 258-7AB13	1	030	0.575	
	<b>AP 258/11 dusk sensor, for weather station AP 257</b> for detection and transmission of the current light intensity at dusk, with measuring range 0 - 255 lux (linear), with detection angle 140° - 160°, for surface mounting or mast mounting, with degree of protection IP 65. Connecting cables to be used: JY(ST)Y 2 x 2 x 0.6 or PYCYM 2 x 2 x 0.6. Dimensions (HxWxD): 64 x 58 x 38 mm	5WG1 258-3AB11	1	030	0.124	
	<b>AP 258/21 outdoor temperature sensor, for weather station AP 257</b> for detection and transmission of the current outdoor temperature, with measuring range: -20 °C to +40 °C, for surface mounting or mast mounting, with degree of protection IP 65. Connecting cables to be used: JY(ST)Y 2 x 2 x 0.6 or PYCYM 2 x 2 x 0.6. Dimensions (HxWxD): 64 x 58 x 38 mm	5WG1 258-3AB21	1	030	0.123	
	<b>AP 258/31 light sensor, for weather station AP 257</b> for detection and transmission of the current light intensity (brightness), with measuring range: 0 - 40 kLux (linear), with detection angle 140° - 160°, for surface mounting or mast mounting, with degree of protection IP 65. Connecting cables to be used: JY(ST)Y 2 x 2 x 0.6 or PYCYM 2 x 2 x 0.6. Dimensions (HxWxD): 64 x 58 x 38 mm	5WG1 258-3AB31	1	030	0.125	
	<b>AP 258/41 rain sensor, heated, for weather station AP 257</b> for detection and transmission of precipitation, with two-level heating of the sensor area, with permanently activated first heating level to prevent condensation and freezing, with automatic activation of second heating level for fast drying of the sensor area if covered with water, with supply of the heating voltage by the weather station, with a permanently connected 5 m long 3-wire cable, for surface mounting or mast mounting, with degree of protection IP 65. Dimensions (HxWxD): 98 x 64 x 38.5 mm	5WG1 258-3AB41	1	030	0.447	
	<b>M 258 heating transformer, for wind sensor S 258/02</b> primary voltage AC 230 V, secondary voltage AC 24 V, with 80 mA slow-blowing fuse, with degree of protection IP 54. Dimensions (HxWxD): 80 x 120 x 50 mm	5WG1 258-8AB01	1	030	0.568	
	<b>M 258/21 mast mounting</b> for mounting up to two sensors for a weather station AP 257 opposite to each other on a single mast with an outer diameter of 40 mm.	5WG1 258-8AB21	1	030	0.209	

\* You can order this quantity or a multiple thereof.

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>N 258 temperature sensor 4x Pt1000</b> for measuring and transmitting 4 temperatures in the range -40°C to +150°C, for direct connection of four Pt1000 temperature sensors, each over an up to 50 m long 2-wire cable, with configurable smoothing of a measured value through mean value generation, with monitoring of a lower and upper limit value for each measured value, with configurable hysteresis for limit value signals, with electronics powered by an integrated power supply unit for AC 230 V, with a green LED for displaying the 230 V operating voltage, with integrated bus coupling unit, with bus connection via bus terminal and contact system to a data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MU (1 Module Unit = 18 mm)	5WG1 258-1AB01		1	030	0.242
	<b>N 670 universal I/O module, 2 x universal I/O, 2 x Pt1000 input, 2 x relay output, 230 V AC, 10 A</b> with 2 universal inputs/outputs, each configurable as either analog input 0-10 V DC, analog output 0-10 V DC, binary input for 10 V DC or binary output for 10 V DC, analog input with limit value monitoring and indication, with adjustable limit values and hysteresis, analog output with adjustable lower and high limit of the output voltage, with adjustable voltage value in case of bus voltage failure and recovery, binary input with edge evaluation, binary output with adjustable switching position in case of bus voltage failure and recovery, with 2 inputs for direct connection of temperature sensors with Pt1000 measuring elements for temperature measurement in the range -25 to +45 Grad C, with limit value monitoring and indication, with adjustable limit values and hysteresis, with 2 binary outputs, relay contacts rated for 230 V AC, 10 A at p.f. = 1, configurable as NO contact/NC contact, with forced control, with configurable switching position in case of bus voltage failure and recovery, with power supply of the electronics by an external power supply for 24 V AC/DC, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. The external power supply unit with 24 V AC/DC must be ordered separately (e.g. LOGO!Power 6EP1 331-1SH01) Width 4 MW (1 Modular Width = 18 mm)	5WG1 670-1AB03		1	030	0.220
	<b>AP 254 dual sensor for brightness and outdoor temperature</b> for measuring and transmitting outdoor temperature and brightness, measuring range of temperature: -25 °C ... +55 °C, measuring range of brightness 1 Lux ... 100 000 Lux, sensing angle horizontally -60° ... +60°, vertically -35° ... +66,5°, with three threshold switches for brightness, two threshold switches for temperature and two threshold switches with logical combination of brightness and temperature, with optional deactivation of one or more threshold switches using a blocking object (1-bit), with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, for surface mounting, with degree of protection IP 54. Dimensions (HxWxD): 110 x 72 x 54 mm	5WG1 254-3EY01		1	030	0.174

# Devices for Special Applications

## Heating, Cooling, Ventilation, Air Conditioning

### Controllers for HVAC

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA i-system</b>	<b>UP 237 room temperature controllers</b>					
	with integrated room temperature sensor, with control configurable as two-step control and/or continuous control (P or PI algorithm), for exclusive heating operation, exclusive cooling operation or heating and cooling operation, with operating modes comfort, standby, night and frost or heat protection, selectable over the EIB, with presence pushbutton for local switchover between comfort and standby mode and for time-limited extension of comfort mode after activation of night mode, with configurable shifting of the room temperature setpoint value for comfort mode, using a rotary knob on the controller and via the EIB, with basic setpoint value of the room temperature for comfort mode, which can be set via the EIB, with adjustable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode, with two-level heating or cooling, with transmission of controller output(s) either as on/off switching commands or as control commands in the range 0-100%, with 5 LEDs for display of the current operating mode and of a dew point alarm, if applicable, for clipping onto a UP 110 or UP 114 bus coupling unit. The UP 110 or UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 55 x 55 x 16 mm	<b>5WG1 237-2AB11</b> <b>5WG1 237-2AB21</b> <b>5WG1 237-2AB31</b>	1 1 1	030 030 030	0.048 0.048 0.048	
<b>DELTA profil</b>	<b>UP 252 room temperature controllers</b>					
	with integrated room temperature sensor, with control configurable as two-step control and/or continuous control (P or PI algorithm), for exclusive heating operation, exclusive cooling operation or heating and cooling operation, with operating modes comfort, standby, night and frost or heat protection, selectable over the EIB, with presence pushbutton for local switchover between comfort and standby mode and for time-limited extension of comfort mode after activation of night mode, with configurable shifting of the room temperature setpoint value for comfort mode, using a rotary knob on the controller and via the EIB, with basic setpoint value of the room temperature for comfort mode, which can be set via the EIB, with adjustable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode, with two-level heating or cooling, with transmission of controller output(s) either as on/off switching commands or as control commands in the range 0-100%, with 5 LEDs for display of the current operating mode and of a dew point alarm, if applicable, for clipping onto a UP 110 or UP 114 bus coupling unit. The UP 110 or UP 114 bus coupling unit and the respective cut-out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 16 mm	<b>5WG1 252-2AB03</b> <b>5WG1 252-2AB13</b> <b>5WG1 252-2AB23</b> <b>5WG1 252-2AB73</b>	1 1 1 1	030 030 030 030	0.038 0.038 0.038 0.065	

\* You can order this quantity or a multiple thereof.

# Devices for Special Applications

## Heating, Cooling, Ventilation, Air Conditioning

### Controllers for HVAC

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>UP 252H multifunction controller</b>   <p>for direct control of the valves and the fan of a fan-coil unit or a split unit, with pre-selection of the desired control function of the directly connected heating/cooling device via ETS, with integrated room temperature sensor, with continuous proportional or proportional-integral room temperature control for exclusive heating operation, exclusive cooling operation, or heating and cooling operation, with operation modes comfort, stand-by, night and protection changeable via EIB, with temperature setpoint for comfort operation mode changeable via EIB, with all other operating mode temperature setpoints configurable via ETS, with a fixed dead band (1K) between heating and cooling in comfort operating mode, with presence pushbutton for local switch-over between comfort and stand-by mode and extension of comfort mode on activation of the night mode, with a pulse-width modulated on/off control signal output, with eight buttons to manually adjust the temperature setpoint in comfort operating mode, to set the operating mode and fan speed, and to control (on/off) a load (e.g. room lighting), with one red status LED per button, with a three-digit LC-display for presentation of the current setpoint value or the room temperature value, with a binary input for direct connection of a potential-free window contact, with a binary input for DC12 V for direct connection of a presence detector, with an analog input for optional connection of a temperature sensor mounted in the in-coming air of a fan-coil unit (NTC sensor, 10 kOhm at 25°C), with 5 binary outputs AC 24 V (relay contacts rated for 2 A at p.f. = 1) for control of electro-thermal valve actuators, for switching fan speeds, etc. dependent on the selected application, with integrated bus coupling unit, bus connection via bus terminal, with integrated power supply for AC 24 V, for mounting with the included dual frame on two cavity wall or flush-mounting boxes with min. 58 mm diameter and min. 40 mm mounting depth or on one corresponding dual wall box.  Dimensions (HxWxD): 80.5 x 151.5 x 32 mm  (mounting depth: 11 mm)</p> <ul style="list-style-type: none"> <li>• titanium white</li> </ul>	<b>5WG1 252-2HV11</b>	1	030	0.222	
<b>UP 231/3 pushbuttons, double, with adaptive room temperature controller</b>   <p>with vertical operation, with two wide inner rocker pushbuttons with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED per pushbutton as orientation light or for status indication, with two narrow outer rocker pushbuttons, one for setpoint offsetting in comfort mode and one for switching between comfort and stand-by mode, with integrated room temperature sensor and controller for exclusive heating operation, exclusive cooling operation or combined heating/cooling operation, with control by an algorithm for adaptive control and/or two-position control, with room temperature measurement by the room temperature sensor integrated in the controller and an EIB-connected external room temperature sensor, with adjustable weighting between the internally and externally measured temperature, with the following operating modes that can be switched over EIB: comfort mode, stand-by mode, night mode, frost or heat protection mode, with adjustable offset of the room temperature setpoint value for comfort mode, with adjustable dead zone, selectable either symmetric to the setpoint value for comfort mode or between the heating and cooling setpoint value for comfort mode, with selectable sequence control for heating and cooling operation (required e.g. for the combination of floor and radiator heating), with output of the control variable(s) either as switch On/Off command or as transmit value command in the range 0-100%, with red LEDs for the indication of the current operating mode and setpoint offset, for clipping onto a UP 114 bus coupling unit.  The UP 114 bus coupling unit and the respective cut-out frame must be ordered separately.  Dimensions (HxWxD): 65 x 65 x 15 mm</p> <ul style="list-style-type: none"> <li>• pearl gray</li> <li>• titanium white</li> <li>• anthracite</li> <li>• silver</li> </ul>	<b>5WG1 231-2AB03</b> <b>5WG1 231-2AB13</b> <b>5WG1 231-2AB23</b> <b>5WG1 231-2AB73</b>	1 1 1 1	030 030 030 030	0.036 0.036 0.036 0.036	

# Devices for Special Applications

## Heating, Cooling, Ventilation, Air Conditioning

### Controllers for HVAC

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA style</b>						
	<b>UP 254 room temperature controllers</b>  with integrated room temperature sensor, with control configurable as two-step control and/or continuous control (P or PI algorithm), for exclusive heating operation, exclusive cooling operation or heating and cooling operation, with operating modes comfort, standby, night and frost or heat protection, selectable over the EIB, with presence pushbutton for local switchover between comfort and standby mode and for time-limited extension of comfort mode after activation of night mode, with configurable shifting of the room temperature setpoint value for comfort mode, using a rotary knob on the controller and via the EIB, with basic setpoint value of the room temperature for comfort mode, which can be set via the EIB, with adjustable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode, with two-level heating or cooling, with transmission of controller output(s) either as on/off switching commands or as control commands in the range 0-100%, with 5 LEDs for display of the current operating mode and of a dew point alarm, if applicable, for clipping onto a UP 110 or UP 114 bus coupling unit. The UP 110 or UP 114 bus coupling unit and the respective frame must be ordered separately (a coupling frame is not required). Dimensions (HxWxD): 68 x 68 x 16 mm • titanium white/metallic silver • basalt black/metallic silver	<b>5WG1 254-2AB13</b> <b>5WG1 254-2AB23</b>	1 1	030 030	0.068 0.068	
	<b>Pushbuttons, double, with adaptive UP 231/3 room temperature controller</b>  with vertical operation, with two wide inner rocker pushbuttons with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED per pushbutton as orientation light or for status indication, with two narrow outer rocker pushbuttons, one for setpoint offsetting in comfort mode and one for switching between comfort and standby mode, with integrated room temperature sensor and controller for exclusive heating operation, exclusive cooling operation or combined heating/cooling operation, with control by an algorithm for adaptive control and/or two-position control, with room temperature measurement by the room temperature sensor integrated in the controller and an EIB-connected external room temperature sensor, with adjustable weighting between the internally and externally measured temperature, with the following operating modes that can be switched over EIB: comfort mode, standby mode, night mode, frost or heat protection mode, with adjustable offset of the room temperature setpoint value for comfort mode, with adjustable dead zone, selectable either symmetric to the setpoint value for comfort mode or between the heating and cooling setpoint value for comfort mode, with selectable sequence control for heating and cooling operation (required e.g. for the combination of floor and radiator heating), with output of the control variable(s) either as switch On/Off command or as transmit value command in the range 0-100%, with red LEDs for the indication of the current operating mode and setpoint offset, for clipping onto a UP 114 bus coupling unit. The UP 114 bus coupling unit and the respective frame and the required intermediate frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 15 mm • titanium white • basalt black	<b>5WG1 231-2EB13</b> <b>5WG1 231-2EB23</b>	1 1	030 030	0.036 0.036	

# Devices for Special Applications

## Heating, Cooling, Ventilation, Air Conditioning

### Controllers for HVAC

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA ambiente</b>	<b>UP 253 room temperature controller</b>  with integrated room temperature sensor, with control configurable as two-step control and/or continuous control (P or PI algorithm), for exclusive heating operation, exclusive cooling operation or heating and cooling operation, with operating modes comfort, standby, night and frost or heat protection, selectable over the EIB, with presence pushbutton for local switchover between comfort and standby mode and for time-limited extension of comfort mode after activation of night mode, with configurable shifting of the room temperature setpoint value for comfort mode, using a rotary knob on the controller and via the EIB, with basic setpoint value of the room temperature for comfort mode, which can be set via the EIB, with adjustable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode, with two-level heating or cooling, with transmission of controller output(s) either as on/off switching commands or as control commands in the range 0-100%, with 5 LEDs for display of the current operating mode and of a dew point alarm, if applicable, for clipping onto a UP 110 or UP 114 bus coupling unit. The UP 110 or UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 16 mm • arctic white	<b>5WG1 253-2AB03</b>	1	030	0.065	
<b>DELTA millennium</b>	<b>IKE 250 room temperature controller</b>  with integrated room temperature sensor, with control configurable as two-step control and/or continuous control (P or PI algorithm), for exclusive heating operation, exclusive cooling operation or heating and cooling operation, with operating modes comfort, standby, night and frost or heat protection, selectable over the EIB, with two pushbuttons for local switching over between comfort and standby mode, with two pushbuttons for shifting the basic setpoint value, with basic setpoint value of the room temperature for comfort mode, which can be set via the EIB, with configurable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode, with two-level heating or cooling, with transmission of controller output(s) either as on/off switching command or as control command in the range 0-100%, with red luminous bar for displaying the current setpoint value shifting and the current operating mode, with integrated bus coupling unit, with 1 ground conductor and 1 ground terminal for the trunking base. The text for the labeling field is engraved and must be specified when ordering (see page 1/21 DELTA millennium - order form). Dimensions (HxWxD): 80 x 166 x 41 mm	<b>5WG1 250-8AB01</b>	1	030	0.341	

# Devices for Special Applications

## Heating, Cooling, Ventilation, Air Conditioning

### Actuators for HVAC

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>N 605 thermal drive actuator with 6 inputs and 6 outputs</b> for control of electrothermal actuators for small valves in heaters and cooling ceilings, with 6 inputs for connection of potential-free contacts, with a length of unshielded connecting cable per input of max. 50 m, with generation of the sensing voltage, with configurable contact type (NO contact/NC contact), with configurable transmission of input status objects on request, in case of change, cyclically and/or in case of bus or system voltage recovery, with 6 outputs, each with a silent semiconductor switch, each rated for 230 V AC, a short-term load current of max. 1.5 A and a resistive steady-state load of max. 12 W (i.e. max. 4 parallel connected thermal drives permissible per output, each with 3 W steady-state load), with electronic protection of outputs against overload and short circuit, with signaling of a short-circuited or overloaded output and de-energizing of this output, with configurable valve open and close time, with configurable valve state (open or closed) in case of de-energized output, with adjustment to a non-linear valve characteristic curve, with configurable control per output either by control commands in percentage or by On/Off switching commands, with conversion of percentage control commands into pulse width modulated switching commands, with per output configurable position in case of an open window, with transmission of an output status object on request or if the switching state changes, with configurable behavior per output in case of bus power failure, with optional calcification protection, with electronics powered by an integrated power supply unit for 230 V AC, with one yellow LED for operation and group indication, with 3 red LEDs for switching status indication of a group of 3 outputs, with 3 pushbuttons for manual switching of the outputs of a group, with device operation independent of bus voltage, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 6 MW (1 Modular Width = 18 mm)	5WG1 605-1AB01	1	030	0.434	
	<b>N 605/11 thermal drive actuator for control of 2 heating/cooling ceilings</b> for control of electrothermal actuators for small valves of heating/cooling ceilings, with 6 inputs for connection of potential-free contacts, with a length of unshielded connecting cable per input of max. 50 m, with generation of the sensing voltage, with configurable contact type (NO contact/NC contact), with configurable transmission of the input status object on request, in case of change, cyclically and/or in case of bus or system voltage recovery, with 6 outputs, each with a silent semiconductor switch, divided into 2 groups, each group with 3 outputs and fixed assignment of the outputs to the inlet and return valves of one heating/cooling ceiling, outputs each rated for 230 V AC, a short-term load current of max. 0.5 A and a resistive steady-state load of max. 6 W (parallel connected thermal drives permissible per output, each with 3 W steady-state load), with configurable valve opening or closing time, with electronic protection of the outputs against overload and short circuit, with signaling of a short-circuited or overloaded output and disconnection of all outputs of the affected group from the supply, with control of all outputs by On/Off switching commands, with transmission of an output status object on request or if the switching state changes, optionally with automatic switchover of the return valve between heating and cooling operation or with switchover of the return valve via an object, with de-energizing of the return valve output if both inlet valves are closed, with configurable behavior of outputs in case of bus power failure, with electronics powered by an integrated power supply unit for 230 V AC, with one yellow LED for operation and group indication, with 3 red LEDs for switching status indication of the outputs of a group, with 2 pushbuttons for manual switching of the inlet valves and the valve group, with device operation independent of bus voltage, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 6 MW (1 Modular Width = 18 mm)	5WG1 605-1AB11	1	030	0.434	

# Devices for Special Applications

## Heating, Cooling, Ventilation, Air Conditioning

### Actuators for HVAC

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)		kg
	<b>N 670 universal I/O module, 2 x universal I/O, 2 x Pt1000 input, 2 x relay output, 230 V AC, 10 A</b>	5WG1 670-1AB03	1	030	0.220
	with 2 universal inputs/outputs, each configurable as either analog input 0-10 V DC, analog output 0-10 V DC, binary input for 10 V DC or binary output for 10 V DC, analog input with limit value monitoring and indication, with adjustable limit values and hysteresis, analog output with adjustable lower and high limit of the output voltage, with adjustable voltage value in case of bus voltage failure and recovery, binary input with edge evaluation, binary output with adjustable switching position in case of bus voltage failure and recovery, with 2 inputs for direct connection of temperature sensors with Pt1000 measuring elements for temperature measurement in the range -25 to +45 Grad C, with limit value monitoring and indication, with adjustable limit values and hysteresis, with 2 binary outputs, relay contacts rated for 230 V AC, 10 A at p.f. = 1, configurable as NO contact/NC contact, with forced control, with configurable switching position in case of bus voltage failure and recovery, with power supply of the electronics by an external power supply for 24 V AC/DC, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. The external power supply unit with 24 V AC/DC must be ordered separately (e.g. LOGO!Power 6EP1 331-1SH01) Width 4 MW (1 Modular Width = 18 mm)				
	<b>Fan-coil unit controllers</b>	5WG1 540-5AS01	1	030	0.400
	for control of the room temperature using a fan-coil unit in either 4-pipe or 2-pipe version, for the heating and cooling of a room, with 3 switching outputs (potential-free contacts, rated voltage AC 230 V, rated current 6 A at p.f. = 1) for the control of the fan speed, with 2 switching outputs (semiconductor switches, rated voltage AC 24 V, rated current 0.25 A at p.f. = 1, max. continuous load 5 W) for control of small valve actuators over an up to 20 m long cable, with integrated transformer for the power supply AC 24 V for the valve control outputs, with 2 binary inputs for connection of potential-free contacts (e.g. window contacts) over an up to 30 m long cable, with generation of the contact sensing voltage through the fan-coil controller, with 1 input for connection of the temperature sensor for measuring the room temperature, with 1 input for connection of a potentiometer for setting the setpoint value, with temperature control using a PI-algorithm, with the operating modes comfort, standby, night and frost or heat protection, selectable over the EIB, with selectable number (1, 2 or 3) of fan speed levels, with optional utilization of unused fan control outputs for switching of lighting, with selection whether an electro-motive or electrothermal actuator is connected to each valve output, with communication objects for the display and operation of the controller over a separate operating device with EIB interface, with controller electronics powered by an integrated power supply unit for AC 230 V, power consumption 5 W, with integrated bus coupling unit, bus connection via 2 screw-type terminals, for mounting on DIN rail EN 60715-TH35-7.5 in the fan-coil unit or in a separate small distribution board. As an accessory, the 5WG1 540-8AS01 temperature sensor is available for installation in the fan-coil unit. Width 6 MU (1 MU = 18 mm)				
	<b>M 540 temperature sensor</b>	5WG1 540-8AS01	1	030	0.050
	for fan-coil unit controller REG 540, including a 2 m connecting lead with screw-terminal connector.				

# Devices for Special Applications

## Heating, Cooling, Ventilation, Air Conditioning

### Valve actuators for HVAC

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>AP 560H valve actuators (electromotive)</b> for opening and closing small valves with a max. valve lift (stroke) of 4.5 mm, for all Heimeier valve bases, with electromotive drive, with automatic valve lift detection during commissioning and adaptation of the actuator travel to the valve used, with non-contact activation of the programming mode using a magnet, with bus-powered electronics and drive, with integrated bus coupling unit, with bus connection via a permanently fixed cable. For all other makes of valves, please contact Heimeier for an adapter to enable connection; the programming magnet must be ordered separately. Manufacturer: Heimeier Dimensions (HxWxD) 60 x 46 x 47 mm • Cable length 1 m • Cable length 5 m	<b>5WG1 560-7AH01</b> <b>5WG1 560-7AH02</b>	1 1	030 030	0.215 0.410	
	<b>Programming magnet</b> for Heimeier AP 560H valve actuators, for non-contact activation of the programming mode.	<b>5WG1 590-8AH01</b>	1	030	0.011	
	<b>AP 562 valve actuator (electromotive), with LED valve position indication</b> for opening and closing small valves with a max. valve lift (stroke) of 7.5 mm, with maintenance-free and low-noise electromotive drive, with automatic valve lift detection during commissioning and adaptation of the actuator travel to the valve used, with bus-powered electronics and drive, with integrated bus coupling unit, with a permanently fixed cable for bus connection and for connection of two signaling contacts (e.g. window contacts), for clipping onto valve adapters, including valve adapter rings for Danfoss RA, Heimeier, MNG, Schlosser from 3/93, Honeywell, Braukmann, Dumser, Reich, Landis + Gyr, Oventrop, Herb, Onda. Manufacturer: Theben Dimensions (HxWxD) 82 x 50 x 65 mm	<b>5WG1 562-7EY01</b>	1	030	0.273	
	<b>ST_21 valve actuators (electrothermal)</b> for opening and closing small valves with a valve lift (stroke) of 2.5 mm, with electrothermal drive, with rated operational voltage AC 230 V, 50 Hz, 2.5 W, for mounting onto heating valves with 2.5 mm stroke and with M30 x 1.5 threaded end (e.g. Heimeier, Honeywell, Brauckmann, Oventrop, M30x1.5), Cazzaniga, Gampper, MNG, with a permanently fixed cable, 1.2 m long.	<b>LSD:STA21</b>	1		0.150	
	<b>STA 21 valve actuator (electrothermal)</b> de-energized closed	<b>LSD:STA21</b>	1		0.150	
	<b>STP 21 valve actuator (electrothermal)</b> de-energized open	<b>LSD:STP21</b>	1		0.150	

#### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
 <p><b>N 360 peak load limiter</b>  for peak load limitation in plants with tariff-based power measurement, with in watt-hours configurable value of an energy pulse, with configurable peak load limit of 30...1.000 kW, with configurable warning limit of 25...1.000 kW, with configurable measuring period of 15, 30 or 60 minutes for the calculation of the power mean value, with a configurable cycle time of 15, 30, 60, 120 or 240 seconds for the load extrapolation interval, with up to 120 loads assignable to peak load limitation, with state monitoring and switching of loads over the EIB, with parameters assignable per load: power consumption of the load, turn-off priority (1 to 10), lock/release of the load, minimum turn-on time, minimum turn-off time, number of permissible switching cycles within 24 h, with transmission of extrapolation data via EIB after each extrapolation, with transmission of statistics data via EIB at the end of each measuring period, with 3 LEDs for display of availability (operational voltage), of an impending exceeding of the maximum value and of a missing synchronization pulse, with 5 LEDs for display of the current time interval within the measuring interval, with 8 LEDs for status indication of the first 8 loads, with inputs for connection of demand pulses generated by utility company counters and for connection of synchronous pulses and high/low-tariff contacts, with electronics powered by an integrated power supply unit for AC 230 V, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5.  The statistics software for the peak load limiter can be downloaded from the Internet free of charge, like the documentation.  Width 4 MU (1 MU = 18 mm)</p>	<b>5WG1 360-1AB01</b>	1	030	0.267	

# Devices for Special Applications

## Safety

### Intrusion

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>N 345 presence-simulation module</b> for recording and reproduction of switching, dimming and sun blind activities of up to 32 channels and up to a total of 5000 actions over a max. time period of 4 weeks (corresponds to 5-6 actions per channel and day), with continuous recording or single recording of sample weeks, with recognition of public holidays during recording, which is taken into account during simulation, with replay of the recorded telegrams in the same order, but with time-definable random deviation from the recording, with configurable return to the start of the simulation after 1 to 4 weeks, with module-internal clock, which needs to be regularly synchronized by a master clock, with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. The following devices can be used as a master clock or time source for synchronizing the module-internal real-time clock: a time switch (e.g. 5WG1 372-5EY01), the N350E IP controller (5WG1 350-1EB01) and the Touch Manager wave (5WG3 583-2AB71). Width 1 MU (1 MU = 18 mm)	5WG1 345-1AB01		1	030	0.100
	<b>N 266 detector group terminal with 4 monitored inputs for passive detectors</b> for the monitored connection of passive detectors (e.g. window contacts) and for the connection of potential-free contacts in applications with increased safety demands, with 4 detector group inputs, each with one LED for status display, with two 12 V outputs "run test" and "armed/disarmed" for the control of passive infrared motion detectors, with armed/disarmed switching of the detector group terminal via a communication object, with failure message in case of short circuit or interruption of a signal line, electronics powered by an external voltage source for 12 V DC, max. 50 mA, with monitoring of the external power supply, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 Modular Width = 18 mm)	5WG1 266-1AB01		1	030	0.180

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA profil</b>	<b>UP 272 water sensors</b>					
	for detecting water in rooms with risk of leakages, comprising of a water sensor for mounting near the ground with a 2 m long connecting lead (extendable to max. 20 m) with jack plug and of a flush-mounting device for clipping onto a bus coupling unit UP 110 or UP 114, with indication of water / no water, with alarm signal with adjustable cyclic transmission time, with indication of defective device / cable, with alarm acknowledgement for resetting the alarm signal, with bus-powered electronics. The bus coupling unit UP 110 or UP 114 and the respective cut-out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 42 mm • pearl gray • titanium white • anthracite • silver					
		<b>5WG1 272-2AB01</b>	1	030	0.090	
		<b>5WG1 272-2AB11</b>	1	030	0.090	
		<b>5WG1 272-2AB21</b>	1	030	0.090	
		<b>5WG1 272-2AB71</b>	1	030	0.090	
<b>DELTA style</b>	<b>UP 272 water sensor</b>					
	for detecting water in rooms with risk of leakages, comprising of a water sensor for mounting near the ground with a 2 m long connecting lead (extendable to max. 20 m) with jack plug and of a flush-mounting device for clipping onto a bus coupling unit UP 110 or UP 114, with indication of water / no water, with alarm signal with adjustable cyclic transmission time, with indication of defective device / cable, with alarm acknowledgement for resetting the alarm signal, with bus-powered electronics. The bus coupling unit UP 110 or UP 114 and the respective frame and intermediate frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 42 mm • titanium white					
		<b>5WG1 272-2AB11</b>	1	030	0.090	

# Devices for Special Applications

## Quick-Assembly System

### Modular quick-assembly system

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>gesis EIB M2-BAS basic modules</b> as basic module for linking the gesis EIB M2 expansion modules with the power supply and the EIB, for managing up to six expansion modules of the gesis EIB M2 series under a physical address, with assignment of all addresses and desired functions with the ETS2 exclusively in the basic module, with management through the basic module of the blocking and safety objects valid for the entire module block, with input/output modules that can be connected to the basic module and/or mounted side-by-side, with automatic contact with system voltage and the internal bus when the expansion modules are adjacently mounted, with electrical connections, solely as plug-in connector from the gesis EST 215 series, green/black, with 3-phase incoming supply of 230/400 V AC, 50 ... 60 Hz, max. 16 A per outer conductor, for distributed mounting on a standard mounting rail in false floors or suspended ceilings. Dimensions (HxWxD): 120 x 80 x 62 mm (height incl. mounting rail: TH 35-7.5 mm)	5WG1 611-3AL01		1	030	0.320
	<b>gesis EIB M2 input modules 4x 230 V AC</b> as input expansion module with four binary inputs, each for rated operational voltage 230 V AC with On period: 100 %, with distribution of inputs in two groups, each with two inputs, each of which is connected with a 4-pole plug-in connector (cable length max. 100 m), for operation with a basic module of the gesis EIB M2 series, with automatic contact with system voltage and the internal bus when butt-mounted on the basic module or an expansion module, with four different evaluation options for the inputs (edge, button press, shutter/blind sensor or dimming sensor evaluation), with special parameter set per evaluation type, with plug-in connectors from the gesis GST 18i4 range, pebble gray, for distributed mounting on a standard mounting rail in false floors or suspended ceilings. Dimensions (HxWxD): 120 x 80 x 41 mm (31 butt-mounted) (height incl. mounting rail height TH 35-7.5 mm)	5WG1 611-3AL11		1	030	0.238
	<b>gesis EIB M2 input modules 4x 24 V DC</b> as input expansion module with four binary inputs, each for rated operational voltage 24 V DC with On period: 100 %, with generation of the sensing voltage, with sensing current approx. 5 mA, for operation with a basic module of the gesis EIB M2 series, with automatic contact with system voltage and the internal bus when butt-mounted on the basic module or an expansion module, with four different evaluation options for the inputs (edge, button press, shutter/blind sensor or dimming sensor evaluation), with special parameter set per evaluation type, with plug-in connectors from the gesis GST 18i5 range, light blue (lead length max. 100 m), for distributed mounting on a standard mounting rail in false floors or suspended ceilings. Dimensions (HxWxD): 120 x 80 x 41 mm (31 butt-mounted) (height incl. mounting rail height TH 35-7.5 mm)	5WG1 611-3AL21		1	030	0.255
	<b>gesis EIB M2-0/2 load-break switches 2x 16 A</b> as output expansion module with two load outputs, each with rated operational voltage 230 V AC, 50/60 Hz, rated operational current 16 A (resistive load), with high switching capacity, for operation with a basic module of the gesis EIB M2 series, with automatic contact with system voltage and the internal bus when butt-mounted on the basic module or an expansion module, with free assignment of outer conductors, with one status object per channel, with parameters for 'behavior in the event of bus power failure/recovery', 'operating modes: normal and time switch', 'Off/On delay time' and 'evaluation of the blocking object', with plug-in connectors from the gesis GST 18i3 range, black, for distributed mounting on a standard mounting rail in false floors or suspended ceilings. Dimensions (HxWxD): 120 x 80 x 41 mm (31 butt-mounted) (height incl. mounting rail height TH 35-7.5 mm)	5WG1 611-3AL31		1	030	0.258
	<b>gesis EIB M2 binary outputs 2x 16 A</b> as output expansion module with two binary outputs, each with rated operational voltage 230 V AC, 50/60 Hz, rated operational current 16 A (resistive load), outputs not short-circuit resistant, for operation with a basic module of the gesis EIB M2 series, with automatic contact with system voltage and the internal bus when butt-mounted on the basic module or an expansion module, with free assignment of outer conductors, with one status object per channel, with parameters for 'behavior in the event of bus power failure/recovery', 'operating modes: normal and time switch', 'Off/On delay time' and 'evaluation of the blocking object', with plug-in connectors from the gesis GST 18i3 range, black, for distributed mounting on a standard mounting rail in false floors or suspended ceilings. Dimensions (HxWxD): 120 x 80 x 41 mm (31 butt-mounted) (height incl. mounting rail height TH 35-7.5 mm)	5WG1 611-3AL41		1	030	0.230

\* You can order this quantity or a multiple thereof.

# Devices for Special Applications

## Quick-Assembly System

### Modular quick-assembly system

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)		kg
	<b>5WG1 611-3AL51</b>		1	030	0.234
<b>gesis EIB M shutter/blind actuators, double (running parallel)</b> as output expansion module with <b>two isolated shutter/blind outputs running parallel</b> , each with rated operational voltage 230 V AC, 50/60 Hz, <b>rated operational current 8 A (resistive load)</b> , with high switching capacity, for operation with a basic module of the gesis EIB M2 series, with automatic contact with system voltage and the internal bus when butt-mounted on the basic module or an expansion module, with free assignment of outer conductors, with parameters for setting 'travel time', 'slat adjustment time', 'reversal interval', 'direction of rotation', 'behavior in the event of bus power failure', 'behavior in the event of alarm' and 'evaluation of the blocking object', with automatic turn up of slats after lowering, with plug-in connectors of the gesis GST 18i4 range, black, for distributed mounting on a standard mounting rail in false floors or suspended ceilings. Dimensions (HxWxD): 120 x 80 x 41 mm (31 butt-mounted) (height incl. mounting rail height TH 35-7.5 mm)					
	<b>5WG1 611-3AL61</b>		1	030	0.276
<b>gesis EIB M2 switching/dimming actuators, single</b> as output expansion module with <b>one switching/dimming output</b> , switching output with rated operational voltage 230 V AC, 50/60 Hz, <b>rated operational current 16 A (resistive load)</b> , control output with control voltage 1-10V DC (passive), control current max. 50 mA, for operation with a basic module of the gesis EIB M2 series, with automatic contact with system voltage and the internal bus when butt-mounted on the basic module or an expansion module, with free assignment of outer conductors, with parameters for 'behavior in the event of bus power failure/recovery', 'offset voltage of the ballast type', 'turn-on/turn-off behavior over dimming', 'dimming time', 'behavior on receipt of a telegram', 'evaluation of blocking object', with status object for status query, with plug-in connectors of the gesis GST 18i5 range, light blue, for distributed mounting on a standard mounting rail in false floors or suspended ceilings. Dimensions (HxWxD): 120 x 80 x 41 mm (31 butt-mounted) (height incl. mounting rail height TH 35-7.5 mm)					

# Devices for Special Applications

## Quick-Assembly System

### Quick-assembly system controls, flat

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>gesis EIB V-0/2CO SI 1PH, double shutter/blind actuators, single-phase</b> <b>with two separately controllable shutter/blind outputs, rated operational voltage 230 V AC, 50/60 Hz, rated operational current 8 A (resistive load), with single-phase incoming supply</b> , with the following functions: up/down and slat adjustment, stop, with 8-bit objects for positioning the hanging height and slat angle, with storage and call up of positions, with automatic determination of runtime necessary for positioning with shutters/blinds with mechanical limit switches, with input of slat adjusting times and the runtime of shutters/blinds with electronic limit switches over parameters, with direct movement to the new position over positioning commands, with status objects for hanging height and slat angle, with all electrical connections exclusively over plug-in connector, with mains and bus connection (incoming supply) over single connector, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of the shutter/blind outputs over plug-in connector gesis GST 18i4, black, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL01		1	030	0.320
	<b>gesis EIB V-0/2CO SI 1PH, double shutter/blind actuators, three-phase</b> <b>with two separately controllable shutter/blind outputs, rated operational voltage 230/400 V AC, 50/60 Hz, rated operational current 8 A (resistive load), with 3-phase incoming supply</b> , with the following functions: up/down and slat adjustment, stop, with 8-bit objects for positioning the hanging height and slat angle, with storage and call up of positions, with automatic determination of runtime necessary for positioning with shutters/blinds with mechanical limit switches, with input of slat adjusting times and the runtime of shutters/blinds with electronic limit switches over parameters, with direct movement to the new position over positioning commands, with status objects for hanging height and slat angle, with all electrical connections exclusively over plug-in connector, with mains and bus connection (incoming supply) over single connector, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of the shutter/blind outputs over plug-in connector gesis GST 18i4, black, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL02		1	030	0.320
	<b>gesis EIB V-0/2+1CO 1PH, double switches and single shutter/blind actuators, single-phase</b> <b>with two separately controllable switching outputs (A1 and A2) and one shutter/blind output (A3), rated operational voltage 230 V AC, 50/60 Hz, operational current per switching output 16 A (resistive load), rated operational current shutter/blind output 8 A, with single-phase incoming supply</b> , with following functions: behavior in the event of bus power failure/recovery, operating mode, normal mode, with On delay, with Off delay and time switch operation, logic operation, with status objects of switching positions, with the following parameters for the shutter/blind output: operating mode; shutter/blind or motor, travel time, slat adjustment time, reversal interval, direction of rotation, behavior in the event of bus power failure, behavior in the event of alarm and monitoring time for alarm analysis, with parameterizable turn-up time for slats after lowering, with two scenes for positioning shutters/blinds and slats using definable travel times, with mains and bus connection (incoming supply) over single connector, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of the outputs over plug-in connector gesis GST 18i3, black (switching outputs) and gesis GST 18i4, black, (shutter/blind output) for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL11		1	030	0.408

\* You can order this quantity or a multiple thereof.

# Devices for Special Applications

## Quick-Assembly System

### Quick-assembly system controls, flat

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>gesis EIB V-0/2-1W, double switches and single shutter/blind actuators, 3-phase</b>  with two separately controllable switching outputs (A1 and A2) and one shutter/blind output (A3), rated operational voltage 230/400 V AC, 50/60 Hz, operational current per switching output 16 A (resistive load), rated operational current shutter/blind output 8 A, with 3-phase incoming supply, with following functions: behavior in the event of bus power failure/recovery, operating mode, normal mode, with On delay, with Off delay and time switch operation, logic operation, with status objects of switching positions, with the following parameters for the shutter/blind output: operating mode; shutter/blind or motor, travel time, slat adjustment time, reversal interval, direction of rotation, behavior in the event of bus power failure, behavior in the event of alarm and monitoring time for alarm analysis, with parameterizable turn-up time for slats after lowering, with two scenes for positioning shutters/blinds and slats using definable travel times, with mains and bus connection (incoming supply) over single connector, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of the outputs over plug-in connector gesis GST 18i3, black (switching outputs) and gesis GST 18i4, black, (shutter/blind output) for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL12	1	030	0.408	
	<b>gesis EIB V-0/2SD 1PH, double switch/dimming actuators, 1-phase</b>  with two separately controllable switching/dimming outputs, switching outputs with rated operational voltage 230 V AC, 50/60 Hz, rated operational current 16 A (resistive load), control outputs with control voltage 1 ... 10 V DC (passive), control current max. 50 mA, with 1-phase incoming supply, with the following functions: behavior in the event of bus power failure/recovery, turn-on value of control voltage, turn-on/turn-off behavior on reaching min and maximum values, dimming time, handling of an incoming value command, with specification of control voltage limits, with four scenes for setting and separate calling up of dimming values, with status objects, with mains and bus connection (incoming supply) over single connectors, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of outputs over plug-in connector gesis GST 18i5 light blue, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL21	1	030	0.408	
	<b>gesis EIB V-0/2SD, double switch/dimming actuators, 3-phase</b>  with two separately controllable switching/dimming outputs, switching outputs with rated operational voltage 230/400 V AC, 50/60 Hz, rated operational current 16 A (resistive load), control outputs with control voltage 1 ... 10 V DC (passive), control current max. 50 mA, with 3-phase incoming supply, with the following functions: behavior in the event of bus power failure/recovery, turn-on value of control voltage, turn-on/turn-off behavior on reaching min and maximum values, dimming time, handling of an incoming value command, with specification of control voltage limits, with four scenes for setting and separate calling up of dimming values, with status objects, with mains and bus connection (incoming supply) over single connectors, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of outputs over plug-in connector gesis GST 18i5 light blue, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL22	1	030	0.408	

# Devices for Special Applications

## Quick-Assembly System

### Quick-assembly system controls, flat

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>gesis EIB V-0/6, 6-fold switch actuators, 3-phase</b> with six separately controllable switching outputs, each with rated operational voltage 230/400 V AC, 50/60 Hz, rated operational current 16 A (resistive load), with 3-phase incoming supply, with the following functions: behavior in the event of bus power failure/recovery, operating mode, normal mode, with On delay, with Off delay and time switch operation, with blocking of outputs over an object and separately definable evaluation per output, with storage and call up of up to four scenes per output, with status objects, with mains and bus connection (incoming supply) over single connector, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with shared connection of three outputs each over a plug-in connector gesis GST 18i5 black, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL32		1	030	0.408
	<b>gesis EIB V-0/4b 1PH, quadruple switch actuators, 1-phase</b> with four separately controllable switching outputs, each with rated operational voltage 230 V AC, 50/60 Hz, rated operational current 16 A (resistive load), with 1-phase incoming supply, with the following functions: behavior in the event of bus power failure/recovery, operating mode, normal mode, with On delay, with Off delay and time switch operation, with status objects, with mains and bus connection (incoming supply) over single connectors, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of outputs over plug-in connector gesis GST 18i3, black, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL43		1	030	0.420
	<b>gesis EIB V-0/4b, quadruple switch actuators, 3-phase</b> with four separately controllable switching outputs, each with rated operational voltage 230/400 V AC, 50/60 Hz, rated operational current 16 A (resistive load), with 3-phase incoming supply, with the following functions: behavior in the event of bus power failure/recovery, operating mode, normal mode, with On delay, with Off delay and time switch operation, with status objects, with mains and bus connection (incoming supply) over single connectors, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of outputs over plug-in connector gesis GST 18i3, black, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL44		1	030	0.420
	<b>gesis EIB V-0/2W 1PH, double shutter/blind actuators, single-phase</b> with two separately controllable shutter/blind outputs, rated operational voltage 230 V AC, 50/60 Hz, rated operational current 8 A (resistive load), with 1-phase incoming supply, with the following parameters: operating mode, shutter/blind or motor, travel time, slat adjustment time, reversal interval, direction of rotation, behavior in the event of bus power failure, behavior in the event of alarm and monitoring time for alarm analysis, with mains and bus connection (incoming supply) over single connectors, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 2i5 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of shutter/blind outputs over plug-in connector gesis GST 18i4, black, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings. Dimensions (HxWxL): 32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)	5WG1 631-3AL51		1	030	0.408

\* You can order this quantity or a multiple thereof.

# Devices for Special Applications

## Quick-Assembly System

### Quick-assembly system controls, flat

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)		kg
 <p><b>gesis EIB V-0/2W, double shutter/blind actuators, three-phase</b>  <b>with two separately controllable shutter/blind outputs, rated operational voltage 230/400 V AC, 50/60 Hz, rated operational current 8 A (resistive load), with 3-phase incoming supply,</b>  with the following parameters: operating mode; shutter/blind or motor, travel time, slat adjustment time, reversal interval, direction of rotation, behavior in the event of bus power failure, behavior in the event of alarm and monitoring time for alarm analysis, with mains and bus connection (incoming supply) over single connectors, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 21i2 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of shutter/blind outputs over plug-in gesis connector GST 18i4, black, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings.  Dimensions (HxWxL):  32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)</p>	5WG1 631-3AL52	1	030	0.408	
 <p><b>gesis EIB V-56/4 (RC), 56-fold input EnOcean Radio and quadruple switch actuators, 3-phase</b>  with 170 EnOcean channels that can be freely assigned to 56 EIB objects and four switching outputs, with rated operational voltage 230/400 V AC, 50/60 Hz, rated operational current per switching output, 16 A (resistive load), with the following functions for the inputs: assignment of the maximum 170 EnOcean channels to 56 EIB objects with the following functions: evaluation of the sensor type pushbuttons (ORG5), 1 byte sensor (ORG6), 4 byte sensor (ORG7) and parameters adapted to the respective ORG type and with blocking function, with the following functions for the switching outputs, behavior in the event of bus power failure and recovery, operating modes; with On delay, with Off delay and time switch operation, with negation and blocking of output, status object can be automatically transmitted, with mains and bus connection (incoming supply) over single connectors, gesis GST 18i5, black (mains) and gesis BST 14i2 green (EIB) or over combination connector gesis EST 21i2 black/green or over flat cable, 7-pole gesis GST 18i5, black (mains) and gesis BST 14i2, green (EIB), with connection of outputs over plug-in connector gesis GST 18i3, black, for distributed surface mounting (screw-type attachment) in false floors or suspended ceilings.  Dimensions (HxWxL):  32 x 112 x 254 mm (height incl. combination distribution block: 71 mm)</p>	5WG1 631-3AL62	1	030	0.408	

The connector systems gesis GST and gesis BST can be ordered directly from Wieland.

Order address:  
Wieland Electric GmbH  
Vertriebs- und Marketing Center  
Abteilung VSI  
Benzstraße 9  
D-96052 Bamberg

Telephone: +49 (0)951 9324-390  
Fax: +49 (0)951 9324-390

<http://www.gesis.com>

# Devices for Special Applications

## Quick-Assembly System

### Conversion table Wieland products - Siemens products

#### Selection and ordering data

Note	Connection	Connection	Order No. Wieland	Order No. Siemens
<b>First connection</b>				
	socket, 5-pole plug, 5-pole	screw-type terminal screw-type terminal	92.753.3053.1 92.754.3053.1	5VE3 100 5VE3 101
<b>Plug-in connectors</b>				
	socket, 3-pole plug, 3-pole	screwless screwless	92.933.0053.1 92.934.0053.1	5VE3 102 5VE3 103
<b>Distributor block</b>				
	2x 5-pole/6x 3-pole	without fixation	92.050.0153.1	5VE3 200
<b>Distributors</b>				
	6x 3-pole 4x 3-pole	with fixation with fixation	92.030.5353.1 92.030.4853.1	5VE3 201 5VE3 202
<b>T distributors</b>				
	3x 3-pole	without fixation	92.030.1053.1	5VE3 203
<b>Extension cable</b>				
	5x 2.5 mm <sup>2</sup> 2 m with socket and plug 4 m with socket and plug 6 m with socket and plug 8 m with socket and plug	—	92.258.2000.1 92.258.4000.1 92.258.6000.1 92.258.8000.1	5VE3 300 5VE3 301 5VE3 302 5VE3 303
	3x 2.5 mm <sup>2</sup> 2 m with socket and plug 4 m with socket and plug 6 m with socket and plug 8 m with socket and plug	—	92.238.2000.1 92.238.4000.1 92.238.6000.1 92.238.8000.1	5VE3 304 5VE3 305 5VE3 306 5VE3 307
	3x 1.5 mm <sup>2</sup> 2 m with socket and plug 4 m with socket and plug 6 m with socket and plug 8 m with socket and plug	—	92.232.2000.1 92.232.4000.1 92.232.6000.1 92.232.8000.1	5VE3 308 5VE3 310 5VE3 311 5VE3 312
<b>Connecting lead</b>				
	3x 2.5 mm <sup>2</sup> 2 m with socket 4 m with socket 6 m with socket 8 m with socket	—	92.238.2003.1 92.238.4003.1 92.238.6003.1 92.238.8003.1	5VE3 313 5VE3 314 5VE3 315 5VE3 316
	3x 2.5 mm <sup>2</sup> 2 m with plug 4 m with plug 6 m with plug 8 m with plug	—	92.238.2004.1 92.238.4004.1 92.238.6004.1 92.238.8004.1	5VE3 317 5VE3 318 5VE3 320 5VE3 321
	3x 1.5 mm <sup>2</sup> 2 m with socket 4 m with socket 6 m with socket 8 m with socket	—	92.232.2003.1 92.232.4003.1 92.232.6003.1 92.232.8003.1	5VE3 322 5VE3 323 5VE3 324 5VE3 325
	3x 1.5 mm <sup>2</sup> 2 m with plug 4 m with plug 6 m with plug 8 m with plug	—	92.232.2004.1 92.232.4004.1 92.232.6004.1 92.232.8004.1	5VE3 326 5VE3 327 5VE3 328 5VE3 330
<b>Coded connecting lead 3x 1.5 mm<sup>2</sup></b>				
	2 m with socket/plug 8 m with socket/plug	—	—	5VE3 331 5VE3 332
<b>Combination plug-in connector</b>				
	230/400V socket, 5-pole 230/400V plug, 5-pole	—	93.551.0553.1 93.552.0553.1	5VE4 100 5VE4 101
<b>Plug-in connectors</b>				
	socket, 4-pole plug, 4-pole socket plug socket plug	— — screw-type terminal screw-type terminal screwless screwless	92.943.0153.0 92.944.0153.0 92.753.3353.0 92.754.3353.0 92.943.0053.1 92.944.0053.1	5VE4 102 5VE4 103 5VE4 104 5VE4 105 5VE4 106 5VE4 107
<b>EIB plug-in connectors</b>				
	socket, 2-pole plug, 2-pole	—	93.421.0553.1 93.422.0553.1	5VE4 108 5VE4 110
<b>Combination distribution element 230/400 V</b>				
	5/2, 6x 2-pole/4x 5-pole	—	93.550.0053.1	5VE4 200
<b>EIB distributor</b>				
	6x 2-pole	—	92.420.0053.0	5VE4 201

# Devices for Special Applications

## Quick-Assembly System

### Conversion table Wieland products - Siemens products

Note	Connection	Connection	Order No. Wieland	Order No. Siemens
<b>Combination connecting lead 230/400 V</b>				
4 m with socket, 5/2	–	94.553.4003.7	5VE4 301	
6 m with socket, 5/2	–	94.553.6003.7	5VE4 302	
8 m with socket, 5/2	–	94.553.8003.7	5VE4 303	
<b>Combination extension cable 230/400 V</b>				
2 m	–	94.553.2000.7	5VE4 304	
4 m	–	94.553.4000.7	5VE4 305	
8 m	–	94.553.8000.7	5VE4 306	
12 m	–	–	5VE4 307	
<b>Connecting lead</b>				
4x 1.5 mm <sup>2</sup>				
4 with plug/free end	–	92.207.4004.3	5VE4 308	
8 m	–	92.207.8004.3	5VE4 310	
<b>Extension cable</b>				
4x 1.5 mm <sup>2</sup>				
4 m	–	92.207.4000.3	5VE4 311	
8 m	–	92.207.8000.3	5VE4 312	
<b>Connecting lead</b>				
5x 0.75 mm <sup>2</sup>				
plug/free end	–	–	5VE4 313	
8 m	8 m	–	5VE4 314	
<b>Extension cable</b>				
5x 0.75 mm <sup>2</sup>				
plug/free end	–	–	5VE4 315	
8 m	8 m	–	5VE4 316	
<b>Connecting lead</b>				
4x 1.5 mm <sup>2</sup>				
4 m with plug/free end	–	92.207.4004.1	5VE4 317	
6 m	–	92.207.6004.1	5VE4 318	
8 m	–	92.207.8004.1	5VE4 320	
<b>Extension cable</b>				
4x 1.5 mm <sup>2</sup>				
2 m with plug/free end	–	92.207.2000.1	5VE4 321	
4 m	–	92.207.4000.1	5VE4 322	
<b>EIB connecting lead</b>				
socket, 2-pole/free end	–	94.425.4003.7	5VE4 323	
8 m	–	94.425.8003.7	5VE4 324	
4 m with plug, 2-pole/free end	–	94.425.4004.7	5VE4 325	
8 m	–	94.425.8004.7	5VE4 326	
<b>EIB extension cable</b>				
plug, 2-pole/free end	–	94.425.4000.7	5VE4 327	
8 m	–	94.425.8000.7	5VE4 328	
<b>Distributor box</b>				
3-pole	series connection	99.020.0028.0	5VE9 300	
3-pole	pushbutton connection	99.019.0028.0	5VE9 301	
<b>Snap In</b>				
socket, 2-pole	–	93.421.0353.1	5VE9 402	
plug, 2-pole	–	93.422.0353.1	5VE9 403	
socket, 3-pole	–	92.031.9658.1	5VE9 302	
plug, 3-pole	–	92.032.9658.1	5VE9 303	
<b>Sealing plug</b>				
for 3-pole socket parts	–	05.561.3653.1	5VE9 304	
<b>Interlocking</b>				
for 3-/5-pole plug and socket parts	–	05.587.3156.1	5VE9 305	
<b>Distributor with terminal box</b>				
5x 4 mm <sup>2</sup>	–	99.400.5301.5	5VE9 306	
<b>Retaining plate</b>				
for 1 to 2 distributor blocks	–	05.562.3612.0	5VE9 307	
<b>Mounting plate</b>				
to distributor block for snapping onto support plate	–	07.413.5553.1	5VE9 308	

# Devices for Special Applications

## Quick-Assembly System

### Notes

# 6

## Gateways, Interface Converters

6/2	KNX EIB / RS 232
6/3	KNX EIB / USB
6/4	KNX EIB / infrared
6/7	KNX EIB / DALI
6/8	KNX EIB / Ethernet
6/9	KNX EIB / KNX RF
6/10	KNX EIB / ISDN
6/10	KNX EIB / GSM
6/10	KNX EIB / telephone a/b
6/11	KNX EIB / PROFIBUS DP
6/12	KNX EIB / LOGO!

# Gateways, Interface Converters

## KNX EIB / RS 232

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>UP 14x RS 232 interfaces</b>	for isolated access to the bus line over the built-in connector, Sub-D 9-pole, for connection of a PC for addressing, configuration, visualization, logging and diagnosis of bus devices, with access to all bus devices in the whole bus system, with power supply over the bus line and over RS 232 through the connected PC, with transfer rate between PC and RS 232 interface of 9600 bit/s, for clipping onto a UP 110 or UP 114 bus coupling unit. Dimensions (HxWxD): 65 x 65 x 42 mm					
<b>DELTA profil</b>	<b>UP 146 RS 232 interfaces</b>  The UP 110 or UP 114 bus coupling unit and the respective cut-out frame must be ordered separately. <ul style="list-style-type: none"><li>pearl gray</li><li>titanium white</li><li>anthracite</li><li>silver</li></ul>	<b>5WG1 146-2AB01</b> <b>5WG1 146-2AB11</b> <b>5WG1 146-2AB21</b> <b>5WG1 146-2AB71</b>	1 1 1 1	030 030 030 030	0.088 0.088 0.088 0.088	
<b>DELTA style</b>	<b>UP 146 RS 232 interface</b>  The UP 110 or UP 114 bus coupling unit, the respective frame and intermediate frame must be ordered separately. <ul style="list-style-type: none"><li>titanium white</li></ul>	<b>5WG1 146-2AB11</b>	1	030	0.088	
<b>DELTA ambiente</b>	<b>UP 142 RS 232 interface</b>  The UP 110 or UP 114 bus coupling unit and the respective frame must be ordered separately. <ul style="list-style-type: none"><li>arctic white</li></ul>	<b>5WG1 142-2AB01</b>	1	030	0.088	
<b>Devices for DIN-rail mounting</b>	<b>N 148/xx RS 232 interfaces</b>  for isolated access to the bus line over the built-in connector, Sub-D 9-pole, for connection of a PC for addressing, configuration, visualization, logging and diagnosis of bus devices, with access to all bus devices in the whole bus system with integrated bus coupling unit, bus connection over contact system to data rail, with power supply over the bus line and over RS 232 through the connected PC, for mounting on DIN rail EN 60715-TH35-7.5. Width 3 MW (1 MW = 18 mm)					
	<b>N 148/02 RS 232 interface</b> with transfer rate between PC and RS 232 interface of 9600 bit/s using standard protocol. 	<b>5WG1 148-1AB02</b>	1	030	0.172	
	<b>N 148/04 RS 232 interface</b> with transfer rate between PC and RS 232 interface of 9600 bit/s using standard protocol or 19200 bit/s using FT1.2 protocol, switch-selectable directly at the RS 232 interface. 	<b>5WG1 148-1AB04</b>	1	030	0.178	

\* You can order this quantity or a multiple thereof.

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>UP 14x USB interfaces</b>	for isolated access to the bus line over the built-in USB socket (type B), for connection of a PC for addressing, configuration, visualization, logging and diagnosis of bus devices, with access to all bus devices in the whole bus system over one of two protocols: standard protocol or FT1.2 protocol, switch-selectable over the connected PC, with power supply over the bus line and over USB through the connected PC, with transmission at USB1.1 speed (max. 12 Mbit/s) between PC and USB interface, with transfer rate between USB interface and bus coupling unit of 9600 bit/s (19200 bit/s for FT1.2), for clipping onto a UP 110 or UP 114 bus coupling unit. Dimensions (HxWxD): 65 x 65 x 42 mm					
<b>DELTA profil</b>	<b>UP 146E USB interfaces</b> The UP 110 or UP 114 bus coupling unit and the respective cut-out frame must be ordered separately. • pearl gray • titanium white • anthracite • silver	<b>5WG1 146-2EB01</b> <b>5WG1 146-2EB11</b> <b>5WG1 146-2EB21</b> <b>5WG1 146-2EB71</b>	1 1 1 1	030 030 030 030	0.092 0.091 0.092 0.091	
<b>DELTA style</b>	<b>UP 146E USB interface</b> The UP 110 or UP 114 bus coupling unit, the respective frame and intermediate frame must be ordered separately. • titanium white	<b>5WG1 146-2EB11</b>	1	030	0.091	
<b>DELTA ambiente</b>	<b>UP 142E USB interface</b> The UP 110 or UP 114 bus coupling unit and the respective frame must be ordered separately. • arctic white	<b>5WG1 142-2EB01</b>	1	030	0.091	
<b>Devices for DIN-rail mounting</b>	<b>N 148/11 USB interface</b> for isolated access to the bus line over the built-in USB socket (type B), for connection of a PC for addressing, configuration, visualization, logging and diagnosis of bus devices, with access to all bus devices in the whole bus system, with power supply over the bus line and over USB through the connected PC, with integrated bus coupling unit, bus connection via bus terminal and contact system to data rail, with transmission at USB1.1 speed (max. 12 Mbit/s) between PC and USB interface, for mounting on DIN rail EN 60715-TH35-7.5. Width 1 MW (1 MW = 18 mm)	<b>5WG1 148-1AB11</b>	1	030	0.840	

# Gateways, Interface Converters

## KNX EIB / infrared

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA profil</b>						
	<b>UP 23x pushbuttons with IR receiver</b>					
	with vertical operation, freely configurable function per operating point: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection and scenes, with IR receiver/decoder for reception of IR telegrams coming from up to 14 additional pushbutton pairs on IR wall-mounted transmitters or hand-held transmitters and conversion of these IR telegrams into bus telegrams, with labeling field for the insertion of pictographs, for clipping onto a UP 114 bus coupling unit.					
	The UP 114 bus coupling unit and the respective cut-out frame must be ordered separately.					
	Dimensions (HxWxD): 65 x 65 x 14 mm					
	<b>UP 233 pushbuttons, single, neutral, with IR receiver</b>					
	with one pushbutton pair, with one red LED as orientation light or for status indication.	<b>5WG1 233-2AB01</b> <b>5WG1 233-2AB11</b> <b>5WG1 233-2AB21</b> <b>5WG1 233-2AB71</b>	1 1 1 1	030 030 030 030	0.038 0.038 0.038 0.038	
	<b>UP 234 pushbuttons, double, neutral, with IR receiver</b>					
	with two pushbutton pairs, with two red LEDs as orientation light or for status indication.	<b>5WG1 234-2AB01</b> <b>5WG1 234-2AB11</b> <b>5WG1 234-2AB21</b> <b>5WG1 234-2AB71</b>	1 1 1 1	030 030 030 030	0.038 0.038 0.038 0.038	
	<b>UP 235 pushbuttons, quadruple, neutral, with IR receiver</b>					
	with four pushbutton pairs, with four red LEDs as orientation light or for status indication.	<b>5WG1 235-2AB01</b> <b>5WG1 235-2AB11</b> <b>5WG1 235-2AB21</b> <b>5WG1 235-2AB71</b>	1 1 1 1	030 030 030 030	0.038 0.038 0.038 0.038	

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
<b>DELTA style</b>						
	<b>UP 285, 286, 287 pushbuttons with IR receiver</b>  with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection, and scenes, with IR receiver/decoder for reception of IR telegrams coming from up to 14 additional pushbutton pairs on IR wall-mounted transmitters or hand-held transmitters and for conversion of these IR telegrams into bus telegrams, with labeling field for the insertion of pictographs, for clipping onto a UP 114 bus coupling unit.  The UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 68 x 68 x 14 mm					
						
<b>UP 285 pushbuttons, single, neutral, with IR receiver</b>  with one pushbutton pair, with one red LED as orientation light or for status indication.	<ul style="list-style-type: none"><li>• basalt black/metallic silver</li><li>• titanium white</li><li>• basalt black</li><li>• titanium white/metallic silver</li></ul>	5WG1 285-2EB01 5WG1 285-2EB11 5WG1 285-2EB21 5WG1 285-2EB81	1 1 1 1	030 030 030 030	0.038 0.038 0.055 0.038	
						
<b>UP 286 pushbuttons, double, neutral, with IR receiver</b>  with two pushbutton pairs, with two red LEDs as orientation light or for status indication.	<ul style="list-style-type: none"><li>• basalt black/metallic silver</li><li>• titanium white</li><li>• basalt black</li><li>• titanium white/metallic silver</li></ul>	5WG1 286-2EB01 5WG1 286-2EB11 5WG1 286-2EB21 5WG1 286-2EB81	1 1 1 1	030 030 030 030	0.038 0.038 0.036 0.038	
						
<b>UP 287 pushbuttons, quadruple, neutral, with IR receiver</b>  with four pushbutton pairs, with four red LEDs as orientation light or for status indication.	<ul style="list-style-type: none"><li>• basalt black/metallic silver</li><li>• titanium white</li><li>• basalt black</li><li>• titanium white/metallic silver</li></ul>	5WG1 287-2EB01 5WG1 287-2EB11 5WG1 287-2EB21 5WG1 287-2EB81	1 1 1 1	030 030 030 030	0.038 0.038 0.036 0.038	
						
<b>DELTA ambiente</b>						
	<b>UP 284 pushbuttons, quadruple, with IR receiver</b>  with vertical operation, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules, with switching On or Off at either rising or falling edge, with distinction between short and long button press for control of dimming, solar protection, and scenes, with one red LED as orientation light and four red LEDs for status indication, with IR receiver/decoder for reception of IR telegrams coming from up to 14 additional pushbutton pairs on IR wall-mounted transmitters or hand-held transmitters and for conversion of these IR telegrams into bus telegrams, with pictographs (included in delivery) for insertion into the four small oval pushbuttons, for clipping onto a UP 114 bus coupling unit.  The UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm	<ul style="list-style-type: none"><li>• arctic white/arctic white</li><li>• arctic white/steel</li></ul>	5WG1 284-2EB01 5WG1 284-2EB03	1 1	030 030	0.084 0.084
						

# Gateways, Interface Converters

## KNX EIB / infrared

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>N 450 IR decoder</b> (to be discontinued) with parallel connection of up to 4 S 440 IR receivers, for conversion of IR telegrams coming from an IR receiver into bus telegrams, for the control of up to 22 functions (e.g. toggle, switch On/Off, dim, transmit value, solar protection control, save and recall of 1-bit scenes when used together with scene modules), with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 MW = 18 mm)	<b>5WG1 450-1AB02</b>	1/5	030	0.105	
	<b>S 440 IR receiver for N 450 IR decoder</b> (to be discontinued) for reception and amplification of IR signals transmitted from IR wall-mounted transmitters or IR hand-held transmitters, for conversion into electrical signals, for connection to an N 450 IR decoder via a 1 m cable (extendable up to 50 m), including clamping spring and rosette for installation in ceilings, walls or lights, with power supply over the IR decoder. Dimensions (HxWxD): 25 x 26 x 65 mm	<b>5WG1 440-7AB01</b>	1	030	0.072	

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>KNX EIB/DALI GE 141 interface</b> for connection of the KNX EIB with digital control gear that have a DALI interface, with DALI output acc. to IEC 60929, potential-free, for a max. voltage of 16 V, short-circuit resistant, for communication of up to 64 DALI ECGs, with either logical separation of the DALI ECG into up to 16 channels (groups), which can only be switched and dimmed together and signal a lighting failure as a group or with additional individual control (switching and setting dimming values) of each DALI ECG and respective individual lighting failure indication, with integrated scene control for up to 16 scenes with commissioning of DALI ECG and test of channel and scene functionality within ETS, with bus-powered electronics, with integrated wide-range power supply unit for 110 ... 240 V AC/DC, with integrated bus coupling unit, with bus connection via bus terminal, as built-in device. Dimensions (HxWxD): 42 x 274.5 x 28 mm	<b>5WG1 141-4AB01</b>		1	030	0.220
	<b>N 525E switch/dimming actuator, 8 x DALI</b> for switching and dimming of eight mutually independent groups (channels) of fluorescent lamps with dimmable electronic control gear (ECG) with DALI interface, with 8 DALI outputs with control power for up to 8 DALI electronic ballasts each, with electronics and DALI outputs powered by an integrated power supply unit for 230 V AC, with a green LED for displaying the 230 V operating voltage, with a pushbutton for switching between bus and direct operation mode for all DALI outputs and for selection of a group of 4 DALI outputs for direct operation, with a yellow LED to display which of the four DALI outputs is activated in direct mode, with 1 red LED per DALI output for display of the switching state or a fault (e.g. lamp failure) of the connected group, with four pairs of pushbuttons for the operation of 4 DALI outputs in direct mode, operational if device supplied with 230 V AC (even if there is no bus voltage or if bus communication is not operational), with selection between identical or individual configuration of the outputs, with per DALI output configurable operating mode (normal mode, timer mode single-step or dual-step), with command objects for each DALI output for switching On/Off, dimming brighter/darker and set value, with up to for optional status objects per DALI output (switching state, dimming value status, lamp failure and DALI status), with transmission of status objects on request, cyclically and/or automatically after changes, with one optional object per DALI output for time-limited switching of lighting in night mode, with warning 1 minute prior to imminent switch Off by dimming to 50 % of the previous dimming value in night or timer mode, with switching On or Off of a channel by dimming brighter/darker, with configurable dimming value upon switching On, with jumping or dimming to a new dimming value, with configurable dimming time from 0% to 100%, with configurable behaviour on bus or mains voltage failure and on bus or mains voltage recovery, with optional object for control of the integrated 8-bit scene control, with up to 16 scenes per DALI output, with integrated bus coupling unit with only half a standard bus load, bus connection via bus terminal and contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 Modular Width = 18 mm)	<b>5WG1 525-1EB01</b>		1	030	0.300

# Gateways, Interface Converters

## KNX EIB / Ethernet

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>N 146 IP router</b> for interconnection of bus lines or bus areas over a fast data network (Ethernet 10BaseT) with Internet protocol (IP), can be used as line, area or network gateway (worlds gateway) and for communication between KNX EIB devices and PCs or other devices with Ethernet interface, as well as in conjunction with a LAN modem for remote access to an KNX EIB installation, for use as an interface e.g. for ETS3 or for visualization software, uses the KNXnet/IP protocol, with assignment of the network parameters by the installation engineer using ETS or automatically by a DHCP service in the network, with 5 LEDs for display of availability, KNX EIB communication and IP communication, with electronics powered over an external power supply for 24 V AC/DC, with pluggable terminal block for connection of external power supply unit (not included), with integrated bus coupling unit, with bus connection over bus terminal, Ethernet connection over RJ45 socket, as modular for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 MW = 18 mm)	<b>5WG1 146-1AB01</b>		1	030	0.126
	<b>N 148/21 IP interface</b> for communication between KNX EIB devices and PCs or other devices with Ethernet (10BaseT) interface, as well as in conjunction with a LAN modem for remote access to an KNX EIB installation, for use as an interface e.g. for ETS3 or for visualization software, uses the KNXnet/IP protocol, with assignment of the network parameters by the installation engineer using ETS or automatically by a DHCP service in the network, with 5 LEDs for display of availability, KNX EIB communication and IP communication, with electronics powered over an external power supply for 24 V AC/DC, with pluggable terminal block for connection of external power supply unit (not included), with integrated bus coupling unit, with bus connection over bus terminal, Ethernet connection over RJ45 socket, for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 MW = 18 mm)	<b>5WG1 148-1AB21</b>		1	030	0.126
	<b>N 350E IP controller</b> with Ethernet (10BaseT) interface for configuration of the module and in conjunction with a PC running the supervision and control software ComBridge Studio for visualization of all states or values transmitted from KNX EIB over an Intranet or the Internet using the Internet protocol, with integrated real-time clock, with buffering of the real-time clock in case of power failure for a minimum of 2 years, with manual setting of the real-time clock and synchronization by a master clock over the bus interface or a time service over the Ethernet interface, with transmission of date and time over the bus, with up to 80 communication objects which can be used for switching, dimming, for solar protection control, measured value or count value transmission and for text output, with weekly time switching program for up to 100 timed jobs, with selectable tripping criteria and event programs for up to 200 event jobs, with up to 10 logic gates, each with up to 4 inputs, with selectable logic function AND or OR per gate, with inverting of each gate input, with LCD on the upper enclosure, with 3 pushbuttons for local setting of date and time, with electronics powered by an external power supply for 12 ... 36 V AC/DC, with pluggable terminal block for connection of external power supply unit, with integrated bus coupling unit, bus connection over bus terminal, Ethernet connection over RJ45 socket, for mounting on DIN rail EN 60715-TH35-7.5. The software required for parameter assignment over the Ethernet interface is included in delivery on CD-ROM free of charge. Width 4 MW (1 MW = 18 mm)	<b>5WG1 350-1EB01</b>		1	030	0.184

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>UP 140 couplers wave / instabus</b> for coupling GAMMA wave with GAMMA <i>instabus</i> , with coupling of up to 50 GAMMA wave sensor channels with GAMMA <i>instabus</i> actor channels or GAMMA <i>instabus</i> sensor channels with GAMMA wave actor channels, with pushbutton rocker single, with intermediate position and vertical operation, parameterizable with ETS3, with function switching, switching and dimming, shutter control and scene control, with distinction between short and long button press for control of dimming or shutter/blind, with scene save and recall of up to two scenes, with 1 LED for display of telegram transmission, with KNX radio transmitter/receiver for 868 MHz, with 10-pole connector for clipping onto a bus coupling unit UP 114 version BCU 2.1 or higher.					
<b>DELTA i-system</b>	<b>UP 140 couplers wave / instabus</b> The UP 114 bus coupling unit and the respective frame in the designs DELTA line, DELTA vita or DELTA miro must be ordered separately. Dimensions (HxWxD): 55 x 55 x 13 mm • titanium white • carbon metallic • aluminum metallic			<b>5WG3 140-2HB11</b> <b>5WG3 140-2HB21</b> <b>5WG3 140-2HB31</b>	1 1 1	030 0.050 030 0.050 030 0.050
<b>DELTA profil</b>	<b>UP 140 couplers wave / instabus</b> The UP 114 bus coupling unit and the respective cut out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm • pearl gray • titanium white • anthracite • silver			<b>5WG3 140-2AB01</b> <b>5WG3 140-2AB11</b> <b>5WG3 140-2AB21</b> <b>5WG3 140-2AB71</b>	1 1 1 1	030 0.050 030 0.050 030 0.050 030 0.050
<b>DELTA style</b>	<b>UP 140 couplers wave / instabus</b> The UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 68 x 68 x 16.5 mm • titanium white • basalt black			<b>5WG3 140-2GB11</b> <b>5WG3 140-2GB21</b>	1 1	030 0.050 030 0.050

# Gateways, Interface Converters

## KNX EIB / telephone systems

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>AP 140/12 TC Plus EIB ISDN telecontrol device</b> for interconnection of KNX EIB with the ISDN telephone network, with 6 signal inputs for potential-free contacts, with 6 switching outputs 12 V DC, 100 mA for control of relays, with additional switching output 12 V DC, 100 mA for controlling a local acoustic alarm signal generator if a sent alarm signal is not confirmed, with additional 10 EIB switching functions and 10 EIB alarm functions, with 4-line LCD for display of device states, with monitoring of the telephone line, with adjustable 4-digit code number to protect against unauthorized switching, with user input via TouchTone-capable telephone or hand-held transmitter, with recordable announcement and voice-supported user prompting, with selection of 6 x 4 freely programmable destination numbers in the event of alarm, with 4 dial attempts per destination number, with connection to the telephone network over a connecting cable with RJ45 connector, with electronics powered by a plug-in power supply unit for connection to 230 V AC, with alternative power supply by an external power supply unit for 12 V DC, in RUTENBECK surface-mounting enclosure, RAL 9010, degree of protection IP30. The headphone/speaker set for recording announcements must be ordered separately. Dimensions (HxWxD): 251 x 204 x 49 mm	<b>5WG1 140-7AU12</b>	1	030	0.700	
	<b>AP 140/22 TC Plus EIB GSM telecontrol device</b> for interconnection of KNX EIB with the GSM telephone network, with 6 signal inputs for potential-free contacts, with 6 switching outputs 12 V DC, 100 mA for control of relays, with additional switching output 12 V DC, 100 mA for controlling a local acoustic alarm signal generator if a sent alarm signal is not confirmed, with additional 10 EIB switching functions and 10 EIB alarm functions, with 4-line LCD for display of device states, with monitoring of the telephone line, with adjustable 4-digit code number to protect against unauthorized switching, with user input via TouchTone-capable telephone or hand-held transmitter, with recordable announcement and voice-supported user prompting, with selection of 6 x 4 freely programmable destination numbers in the event of alarm, with 4 dial attempts per destination number, with aerial adapter, with electronics powered by a plug-in power supply unit for connection to 230 V AC, with alternative power supply by an external power supply unit for 12 V DC, in RUTENBECK surface-mounting enclosure, RAL 9010, degree of protection IP30. The headphone/speaker set for recording announcements must be ordered separately. Dimensions (HxWxD): 251 x 204 x 49 mm	<b>5WG1 140-7AU22</b>	1	030	0.700	
	<b>AP 140/02 TC Plus EIB analog telecontrol device</b> for interconnection of KNX EIB with the analog telephone network, with 6 signal inputs for potential-free contacts, with 6 switching outputs 12 V DC, 100 mA for control of relays, with additional switching output 12 V DC, 100 mA for controlling a local acoustic alarm signal generator if a sent alarm signal is not confirmed, with additional 10 EIB switching functions and 10 EIB alarm functions, with 4-line LCD for display of device states, with monitoring of the telephone line, with adjustable 4-digit code number to protect against unauthorized switching, with user input via TouchTone-capable telephone or hand-held transmitter, with recordable announcement and voice-supported operator prompting, with selection of 6 x 4 freely programmable destination numbers in the event of alarm, with 4 dial attempts per destination number, with connection to the telephone network over an N-coded TAE connecting cable, with electronics powered by a plug-in power supply unit for connection to 230 V AC, with alternative power supply by an external power supply unit for 12 V DC, in RUTENBECK surface-mounting enclosure, RAL 9010, degree of protection IP30. The headphone/speaker set for recording announcements must be ordered separately. Dimensions (HxWxD): 251 x 204 x 49 mm	<b>5WG1 140-7AU02</b>	1	030	0.700	
	<b>S 190 headphone/speaker set</b> TC EIB telecontrol device, for recording individual announcements.	<b>5WG1 190-7AU01</b>	1	030	0.220	

\* You can order this quantity or a multiple thereof.

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>DP/EIB link</b> for interconnection of the two open standard systems for industrial automation PROFIBUS DP and KNX EIB building management systems, with function as PROFIBUS DP slave and KNX EIB device, for mapping of data objects of the event-controlled EIB in the process image of the DP master, for controlling the EIB by sending of EIB telegrams, with connection to the PROFIBUS DP line over a 9-pole Sub-D socket, with coding switch for the PROFIBUS address, can be configured using standard tools STEP 7 or COM PROFIBUS as DP slave and with the EIB configuring software ETS, with a transfer rate to PROFIBUS DP of max. 12 Mbit/s, electronics powered by an external power supply for 24 V DC (20.4 ... 30 DC), with connector for connection of external power supply, with integrated bus coupling unit, bus connection over bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 MW = 18 mm)	<b>6GK1 415-0AA01</b>		1	540	0.300
	<b>DP/EIB link manual, German</b> DP/EIB link manual, German, including GSD file and ETS database entry.	<b>6GK1 971-3DA00-0AA0</b>		1	540	0.305
	<b>DP/EIB link manual, English</b> DP/EIB link manual, English, including GSD file and ETS database entry.	<b>6GK1 971-3DA00-0AA1</b>		1	540	0.295

## KNX EIB / LOGO!

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>6BK1700-0BA00-0AA1</b>		1	475	

**LOGO!KNX EIB communication module**  
for connection of LOGO! to KNX EIB, as slave module for the LOGO! logic module (12/24 or 115/240 V) and as bus device on the KNX EIB, for linking transmitted KNX EIB data points and LOGO! inputs and outputs over logic and timer functions through LOGO!, for the linking and transmitting over KNX EIB of up to 8 binary inputs and 4 binary outputs of LOGO! and up to 16 virtual KNX EIB binary inputs, 12 virtual KNX EIB binary outputs, 8 virtual KNX EIB analog inputs and 2 virtual KNX EIB analog outputs, with transmission of date and time of the LOGO! real-time clock over KNX EIB, with two LEDs for display of the communication status of LOGO! and KNX EIB, with electronics powered by an external power supply for 24 V AC/DC, 25 mA, with integrated bus coupling unit, bus connection over screw-type terminals, for mounting on DIN rail EN 60715-TH35-7.5.  
Width 2 MW (1 MW = 18 mm)



# Physical Sensors

7/2 Motion / presence  
7/4 Brightness  
7/5 Temperature  
7/6 Sensor combinations

# Physical Sensors

## Motion / presence

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>UP 25x motion detectors</b> as passive infrared detector for indoors, with Fresnel lenses in 2 layers with 18 segments, with a sensing angle of 180°, which can be reduced to 90° left or right using detachable blanking covers, with a sensing range to the front of approx. 10 m, with a sensing range to the side of approx. 6 m, with a potentiometer for stepless adjustment of the sensing range between 20 % and 100 %, with an integrated brightness sensor, with stepwise adjustable brightness limits from approx. 1 to 1000 lux (day mode to night mode), to be used over different application programs as stand-alone device or in primary and secondary operation, with optional cyclic transmission, with configurable overtravel time and dead time after the end of detection, with blocking and release of the signalling mode via external bus telegrams, for clipping onto a UP 110 or UP 114 bus coupling unit, with degree of protection IP20.					
<b>DELTA i-system</b>		<b>UP 258 motion detectors</b> The UP 110 or UP 114 bus coupling unit and the respective frame in the design DELTA line, DELTA vita or DELTA miro must be ordered separately. Dimensions (HxWxD): 55 x 55 x 23 mm				
		Assembly height 1.10 m	<b>5WG1 258-2HB11</b> <b>5WG1 258-2HB21</b> <b>5WG1 258-2HB31</b>	1 1 1	030 030 030	0.059 0.059 0.059
		Assembly height 2.20 m	<b>5WG1 258-2HB12</b> <b>5WG1 258-2HB22</b> <b>5WG1 258-2HB32</b>	1 1 1	030 030 030	0.059 0.059 0.059
<b>DELTA profil</b>		<b>UP 255 motion detectors</b> The UP 110 and UP 114 bus coupling unit and the respective cut-out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 23 mm				
		Assembly height 1.10 m	<b>5WG1 255-2AB01</b> <b>5WG1 255-2AB11</b> <b>5WG1 255-2AB21</b> <b>5WG1 255-2AB71</b>	1 1 1 1	030 030 030 030	0.062 0.062 0.062 0.062
		Assembly height 2.20 m	<b>5WG1 255-2AB02</b> <b>5WG1 255-2AB12</b> <b>5WG1 255-2AB22</b> <b>5WG1 255-2AB72</b>	1 1 1 1	030 030 030 030	0.062 0.062 0.062 0.062
<b>DELTA style</b>		<b>UP 255, UP 257 motion detectors</b> The UP 110 or UP 114 bus coupling unit and the respective frame and intermediate frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 23 mm				
		Assembly height 1.10 m	<b>5WG1 255-2AB11</b> <b>5WG1 257-2AB21</b>	1 1	030 030	0.062 0.062
		Assembly height 2.20 m	<b>5WG1 255-2AB12</b> <b>5WG1 257-2AB22</b>	1 1	030 030	0.062 0.062
<b>DELTA ambiente</b>		<b>UP 256 motion detectors</b> The UP 110 and UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 23 mm				
		Assembly height 1.10 m	<b>5WG1 256-2AB01</b>	1	030	0.062
		Assembly height 2.20 m	<b>5WG1 256-2AB02</b>	1	030	0.062

## Motion / presence

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>UP 258/11 presence detector</b> as passive infrared detector for ceiling mounting indoors, with Fresnel lenses in pyramid form, monitoring range: horizontal 360°, vertical approx. 120°, for monitoring an area of 6 x 6 m to approx. 11 x 11 m (depending on mounting/room height), with integrated brightness sensor, with optional brightness limits for day/night mode, adjustable over a potentiometer or parameters, with over-travel time with adaptive behavior, adjustable over a potentiometer or parameters, with transmission of the switching information Off/On (light / dark) over the bus, with a switching object for lighting, with a switching object for heating / ventilation / air-conditioning, with an additional object "pushbutton input" for manual override of the switching output for lighting, to be used as stand-alone device or in primary or secondary operation, with test mode for easy start-up, with LED for display of detections in test mode, for clipping onto a UP 110 or UP 114 bus coupling unit. The UP 110 or UP 114 bus coupling unit must be ordered separately. Dimensions (HxWxD): 87 x 87 x 60 mm	<b>5WG1 258-2AB11</b>	1	030	0.221	
	<b>UP 258/21 presence detector with constant light level control</b> as passive infrared detector for ceiling mounting indoors, with Fresnel lenses in pyramid form, monitoring range horizontal 360°, vertical approx. 120°, for monitoring an area of 3 x 3 m to approx. 8 x 8 m (depending on mounting/room height), with integrated constant light level control, with control of one or two lighting groups, with selection between switching or constant light level control, with mixed light measurement, with lighting control fully or semi-automatic as required, with presence output with ON/OFF delay, with monitoring output with cyclic message object, with output for brightness (LUX), with integrated scene control with 2 scenes, to be configured remotely using the ETS, with parallel operation of several presence detectors (master-slave, master-master) without a logic module, with test mode for easy start-up, with LED for display of detections in test mode, with bus-powered electronics, with optional IR remote control, with integrated bus coupling unit. Dimensions (HxWxD): 102 x 102 x 33 mm	<b>5WG1 258-2AB21</b>	1	030	0.075	
	<b>Surface-mounting enclosure for UP 258/21 presence detector</b> for fastening the presence detector as a surface-mounting device. Dimensions (HxWxD): 102 x 102 x 46 mm	<b>5WG1 258-3EB21</b>	1	030	0.030	

# Physical Sensors

## Brightness

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>AP 254 dual sensor for brightness and outdoor temperature</b> for measuring and transmitting outdoor temperature and brightness, measuring range of temperature: -25 °C ... +55 °C, measuring range of brightness 1 Lux ... 100 000 Lux, sensing angle horizontally -60° ... +60°, vertically -35° ... +66.5°, with three threshold switches for brightness, two threshold switches for temperature and two threshold switches with logical combination of brightness and temperature, with optional deactivation of one or more threshold switches using a blocking object (1-bit), with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, for surface mounting, with degree of protection IP 54. Dimensions (HxWxD): 110 x 72 x 54 mm	5WG1 254-3EY01		1	030	0.174
	<b>Indoor brightness sensors for N 526/02 switch/dimming actuator</b> for measuring the brightness on an illuminated surface by measuring the reflected light, for the measuring range 0 - 1500 lux (at a reflection degree of the illuminated surface of approx. 30%), for direct connection to the N 526/02 switch/dimming actuator via a 3-wire cable with a length of up to 100 m, which also provides power to the sensor electronics, with plug-in extra-low voltage terminal for connection of the line to the N 526/02, includes two rigid optical fibre rods painted white: one with a light-sensitive surface parallel to the mounting surface and one with inclined (45°) light-sensitive surface.					
	<b>UP 255 indoor brightness sensor</b> for mounting in a cavity wall or flush-mounting box with 58 mm diameter and min. 40 mm mounting depth, with lid made of white plastic (polystyrene). Dimensions (HxWxD): 30 x 52 x 33 mm	5WG1 255-4AB01		1	030	0.092
	<b>AP 255 indoor brightness sensor</b> for mounting to a ceiling or on the wall, including surface-mounting enclosure made of white plastic (polypropylene) with 70 mm diameter and 24 mm height. Dimensions (HxWxD): 30 x 72 x 33 mm	5WG1 255-4AB02		1	030	0.102
	<b>Indoor brightness sensors</b> for measuring and control of the workplace and/or floor lighting in a room, measuring range: 200 - 1900 lux for constant light level control, 0 - 2000 lux for transmission of the brightness value, comprising of a receiver (light sensor) and a converter (brightness controller), with application programs either for calibration or constant light level control or two-step control or for the transmission of the current brightness value recorded by the receiver, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, receiver for ceiling installation using a clamping spring and a rosette and with 2-m long 3-wire connecting cable, converter as built-in device with casing for installation in e.g. luminaires for fluorescent lamps, degree of protection IP 20. The connecting cable of the receiver must not be extended.					
	<b>GE 252/02 indoor brightness sensor</b> for applications e.g. with ceiling-mounted luminaires. Dimensions (HxWxD): Converter: 42 x 274.5 x 28 mm Receiver: 25 x 77.4 x 28.5 mm	5WG1 252-4AB02		1	030	0.345
	<b>GE 254 indoor brightness sensor for applications with indirect lighting</b> e.g. in rooms with pendant luminaires with indirect lighting. Dimensions (HxWxD): Converter: 42 x 274.5 x 28 mm Receiver: 25 x 71.6 x 28.5 mm	5WG1 254-4AB01		1	030	0.345
	<b>GE 253 outdoor brightness sensor for indoor mounting</b> for measuring the outdoor light intensity (illuminance) from indoors at the window, measuring range: 0 - 16000 lux, comprising of a receiver (light sensor) and a converter for the conversion and transmission of the measured brightness value to a N 342 light level control module, with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, receiver with set for mounting indoors at the window and with 2-m long 3-wire connecting cable, converter as built-in device (suitable e.g. for surface-mounting or for mounting in suspended ceilings), degree of protection IP 20. The connecting cable of the receiver must not be extended. Dimensions (HxWxD): Converter: 42 x 274.5 x 28 mm Receiver: 25 x 65.7 x 28.5 mm	5WG1 253-4AB01		1	030	0.345

\* You can order this quantity or a multiple thereof.

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>AP 254 dual sensor for brightness and outdoor temperature</b> for measuring and transmitting outdoor temperature and brightness, measuring range of temperature: -25 °C ... +55 °C, measuring range of brightness 1 Lux ... 100 000 Lux, sensing angle horizontally -60° ... +60°, vertically -35° ... +66,5°, with three threshold switches for brightness, two threshold switches for temperature and two threshold switches with logical combination of brightness and temperature, with optional deactivation of one or more threshold switches using a blocking object (1-bit), with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, for surface mounting, with degree of protection IP 54. Dimensions (HxWxD): 110 x 72 x 54 mm	5WG1 254-3EY01		1	030	0.174
	<b>N 258 temperature sensor 4x Pt1000</b> for measuring and transmitting 4 temperatures in the range -40°C to +150°C, for direct connection of four Pt1000 temperature sensors, each over an up to 50 m long 2-wire cable, with configurable smoothing of a measured value through mean value generation, with monitoring of a lower and upper limit value for each measured value, with configurable hysteresis for limit value signals, with electronics powered by an integrated power supply unit for AC 230 V, with a green LED for displaying the 230 V operating voltage, with integrated bus coupling unit, with bus connection via bus terminal and contact system to a data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MU (1 Module Unit = 18 mm)	5WG1 258-1AB01		1	030	0.242

# Physical Sensors

## Sensor combinations

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>AP 254 dual sensor for brightness and outdoor temperature</b>  for measuring and transmitting outdoor temperature and brightness, measuring range of temperature: -25 °C ... +55 °C, measuring range of brightness 1 Lux ... 100 000 Lux, sensing angle horizontally -60° ... +60°, vertically -35° ... +66,5°, with three threshold switches for brightness, two threshold switches for temperature and two threshold switches with logical combination of brightness and temperature, with optional deactivation of one or more threshold switches using a blocking object (1-bit), with bus-powered electronics, with integrated bus coupling unit, bus connection via bus terminal, for surface mounting, with degree of protection IP 54. Dimensions (HxWxD): 110 x 72 x 54 mm	<b>5WG1 254-3EY01</b>		1	030	0.174
	<b>UP 258/11 presence detector</b>  as passive infrared detector for ceiling mounting indoors, with Fresnel lenses in pyramid form, monitoring range: horizontal 360°, vertical approx. 120°, for monitoring an area of 6 x 6 m to approx. 11 x 11 m (depending on mounting/room height), with integrated brightness sensor, with optional brightness limits for day/night mode, adjustable over a potentiometer or parameters, with overtravel time with adaptive behavior, adjustable over a potentiometer or parameters, with transmission of the switching information Off/On (light / dark) over the bus, with a switching object for lighting, with a switching object for heating / ventilation / air-conditioning, with an additional object "pushbutton input" for manual override of the switching output for lighting, to be used as stand-alone device or in primary or secondary operation, with test mode for easy start-up, with LED for display of detections in test mode, for clipping onto a UP 110 or UP 114 bus coupling unit. The UP 110 or UP 114 bus coupling unit must be ordered separately. Dimensions (HxWxD): 87 x 87 x 60 mm	<b>5WG1 258-2AB11</b>		1	030	0.221
	<b>UP 258/21 presence detector with constant light level control</b>  as passive infrared detector for ceiling mounting indoors, with Fresnel lenses in pyramid form, monitoring range horizontal 360°, vertical approx. 120°, for monitoring an area of 3 x 3 m to approx. 8 x 8 m (depending on mounting/room height), with integrated constant light level control, with control of one or two lighting groups, with selection between switching or constant light level control, with mixed light measurement, with lighting control fully or semi-automatic as required, with presence output with ON/OFF delay, with monitoring output with cyclic message object, with output for brightness (LUX), with integrated scene control with 2 scenes, to be configured remotely using the ETS, with parallel operation of several presence detectors (master-slave, master-master) without a logic module, with test mode for easy start-up, with LED for display of detections in test mode, with bus-powered electronics, with optional IR remote control, with integrated bus coupling unit. Dimensions (HxWxD): 102 x 102 x 33 mm	<b>5WG1 258-2AB21</b>		1	030	0.075
	<b>Surface-mounting enclosure for UP 258/21 presence detector</b>  for fastening the presence detector as a surface-mounting device. Dimensions (HxWxD): 102 x 102 x 46 mm	<b>5WG1 258-3EB21</b>		1	030	0.030

\* You can order this quantity or a multiple thereof.

# 8

## Control and Automation Devices

8/2	Programmable logic controllers
8/3	Logic modules
8/4	Scene modules
8/5	Time / event modules
8/7	Time switches and accessories

## Programmable logic controllers

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>LOGO! 230RC</b>  Universal, expandable logic module for simple control tasks, with 8 digital inputs for 230 V AC / 115 V DC, with 4 relays as digital outputs for max. 10 A, with possibility for an expansion to max. 24 digital inputs, 16 digital outputs and 8 analog inputs, with integral display and operator panel, with 8 basic functions (AND, OR, NOT, edge evaluation, ...) and 27 special functions (On/Off delay, remote control function, time switch, timed off / staircase light switch acc. to DIN 18015-2, ...) usable for max. 130 function blocks, with 24 flags (incl. startup flags), with password protection, with optional copy protection, with failsafe storage of switching programs, with internal real time clock, with connectors for an external power supply for 230 V AC / 115V DC, for mounting on DIN rail EN 60715-TH35-7.5  Width 4 MW (1 MW = 18 mm)	<b>6ED1 052-1FB00-0BA5</b>		1	200	0.232
	<b>LOGO! 12/24 RC</b>  Universal, expandable logic module for simple control tasks, with 8 digital inputs for 12/24 V DC of which 2 can be used as analog inputs for 0 to 10 V, with 4 relays as digital outputs for max. 10 A, with possibility for an expansion to max. 24 digital inputs, 16 digital outputs and 8 analog inputs, with integral display and operator panel, with 8 basic functions (AND, OR, NOT, edge evaluation, ...) and 27 special functions (On/Off delay, remote control function, time switch, timed off / staircase light switch acc. to DIN 18015-2, ...) usable for max. 130 function blocks, with 24 flags (incl. startup flags), with password protection, with optional copy protection, with failsafe storage of switching programs, with internal real time clock, with connectors for an external power supply for 12/24 V DC, for mounting on DIN rail EN 60715-TH35-7.5  Width 2 MW (1 MW = 18 mm)	<b>6ED1 052-1MD00-0BA5</b>		1	200	0.228
	<b>LOGO! AM2 Pt100</b>  Expansion module for connection of 2 AI Pt100 2 or 3-wire temperature sensors for -50 ... +200 °C, with connection to LOGO! 230RC or LOGO! 12/24 RC, with connectors for an external power supply for 12/24 V DC power supply  Width 2 MW, degree of protection IP20	<b>6ED1 055-1MD00-0BA0</b>		1	200	0.120
	<b>LOGO!KNX EIB communication module</b>  for connection of LOGO! to KNX EIB, as slave module for the LOGO! logic module (12/24 or 115/240 V) and as bus device on the KNX EIB, for linking transmitted KNX EIB data points and LOGO! inputs and outputs over logic and timer functions through LOGO!, for the linking and transmitting over KNX EIB of up to 8 binary inputs and 4 binary outputs of LOGO! and up to 16 virtual KNX EIB binary inputs, 12 virtual KNX EIB binary outputs, 8 virtual KNX EIB analog inputs and 2 virtual KNX EIB analog outputs, with transmission of date and time of the LOGO! real-time clock over KNX EIB, with two LEDs for display of the communication status of LOGO! and KNX EIB, with electronics powered by an external power supply for 24 V AC/DC, 25 mA, with integrated bus coupling unit, bus connection over screw-type terminals, for mounting on DIN rail EN 60715-TH35-7.5  Width 2 MW (1 MW = 18 mm)	<b>6BK1700-0BA00-0AA1</b>		1	475	

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>N 301 logic module</b> function dependent on selected application program, <b>for logical operation of up to 8 inputs using both AND and OR functions</b> , with separate output per logic function, with configurable inversion of individual inputs and outputs, with separately configurable send conditions for AND and OR function (output filter), for direct or inverted output of up to 4 inputs via the respective output, with address conversion for each output, with send conditions (output filter) for each output, for forwarding and duplication of received switching, dimming or value telegrams for partition controls for 2 separate groups, each with 4 channels, depending on 4 selective inputs, whereby channel A of group 1 receives the same forwarding conditions as channel A of group 2, for forced control on/off switching of loads through conversion of the data type 1-bit switching telegram to 2-bit forced control telegram and vice versa, with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 1 MW (1 MW = 18 mm)	5WG1 301-1AB01		1	030	0.092
	<b>N 347/02 logic operation module</b> <b>with up to 127 freely definable logic gates of type AND, NAND, OR or NOR</b> , with a total of up to 253 communication objects as gate inputs or gate outputs, <b>with up to 252 inputs per gate, with one output per gate</b> , with interconnection of gate outputs to inputs of other gates, with configurable inverting of individual inputs, separately for all gates, with configurable send conditions, separately for all gate outputs (output filter), with On and/or Off delay or timer function for each gate output (automatic turn-off after configured operating interval), with bus-powered electronics, with integrated bus coupling unit, bus connection over contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 1 MW (1 MW = 18 mm)	5WG1 347-1AB02		1	030	0.092
	<b>N 350 event, time and logic module</b> <b>with 10 event programs, each with up to 10 event jobs</b> , with start of an event program by the respective event object with selectable tripping criteria, with configurable delayed execution of each event job after tripping event, with weekly time switching program for <b>20 time objects, with up to 100 time jobs</b> for minute-precision switching, with assignment of each switching time for execution on one, several or all weekdays, <b>with 10 logic gates of type AND, NAND, OR or NOR, each with up to 6 inputs</b> and one output, inverting can be configured for each input, send conditions can be separately configured for each gate output (output filter), with internal module clock, which must be regularly synchronized by a master clock, with bus-powered electronics, with integrated bus coupling unit, bus connection over contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. The following devices can be used as master clock or time source for synchronizing the module-internal clock: a time switch (e.g. 5WG1 372-5EY01), the N 350E IP controller (5WG1 350-1EB01) and the Touch-Manager wave (5WG3 583-2AB71). Width 1 MW (1 MW = 18 mm)	5WG1 350-1AB01		1	030	0.092

# Control and Automation Devices

## Logic modules

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>N 350E IP controller</b> with Ethernet (10BaseT) interface for configuration of the module and in conjunction with a PC running the supervision and control software ComBridge Studio for visualization of all states or values transmitted from KNX EIB over an Intranet or the Internet using the Internet protocol, with integrated real-time clock, with buffering of the real-time clock in case of power failure for a minimum of 2 years, with manual setting of the real-time clock and synchronization by a master clock over the bus interface or a time service over the Ethernet interface, with transmission of date and time over the bus, with up to 80 communication objects which can be used for switching, dimming, for solar protection control, measured value or count value transmission and for text output, with weekly time switching program for up to 100 timed jobs, with selectable tripping criteria and event programs for up to 200 event jobs, with up to 10 logic gates, each with up to 4 inputs, with selectable logic function AND or OR per gate, with inverting of each gate input, with LCD on the upper enclosure, with 3 pushbuttons for local setting of date and time, with electronics powered by an external power supply for 12 ... 36 V AC/DC, with pluggable terminal block for connection of external power supply unit, with integrated bus coupling unit, bus connection over bus terminal, Ethernet connection over RJ45 socket, for mounting on DIN rail EN 60715-TH35-7.5. The software required for parameter assignment over the Ethernet interface is included in delivery on CD-ROM free of charge. Width 4 MW (1 MW = 18 mm)	<b>5WG1 350-1EB01</b>	1	030	0.184	

## Scene modules

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>N 300 scene modules</b> for the saving and recalling of <b>up to 4 different scenes</b> , with functions switching, send dimming value, solar protection control (depending on the selected application program), with saving and recalling of scenes via 1-bit telegrams, with <b>up to 8 group addresses per module</b> or scene, with the option of increasing the number of group addresses per scene by adding scene modules, with bus-powered electronics, with integrated bus coupling unit, bus connection over contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 1 MW (1 MW = 18 mm)	<b>5WG1 300-1AB01</b>	1	030	0.092	

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>N 302 time modules</b> <b>with 4 independent channels, each with 1 input and 1 output object</b> , with configurable inverting of input objects, with On delay for each channel, with restart of On delay by resending an On telegram, with cancellation of On delay on receipt of an Off telegram, with Off delay for each channel, with restart of Off delay by resending an Off telegram, with cancellation of Off delay on receipt of an On telegram, with timer function for each channel (automatic turn off after a configurable time), with configurable inverting of output objects, with locking object for enabling or disabling the switching of individual channels, with send conditions for each channel (output filter), with bus-powered electronics, with integrated bus coupling unit, bus connection over contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 1 MW (1 MW = 18 mm)	5WG1 302-1AB01		1	030	0.092
	<b>N 341 event and time modules</b> with up to 255 communication objects, with up to <b>200 event jobs in up to 200 event programs</b> , with up to <b>100 event program triggers</b> of the type switching (EIS 1) or transmit value (EIS 5, EIS 6, EIS 9, EIS 10, EIS 11), with trigger filters for definable values or edges, with jobs for switching (EIS 1), transmitting values (EIS 5, EIS 6, EIS 9, EIS 10, EIS 11) or <b>sending up to 60 texts</b> with a length of up to 14 characters over the bus, with configurable delayed execution of each event job after the tripping instant, with up to <b>125 daily programs</b> , comprising a total of up to <b>400 time jobs</b> , executable on a special date or periodically on a daily, weekly, monthly or yearly basis, executable exclusively or together with other daily programs, with the option to enable/disable internal jobs, programs, triggers etc., with time-controlled start/termination of event programs, with internal module clock, which must be regularly synchronized by a master clock, with bus-powered electronics, with integrated bus coupling unit, bus connection over contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. The following devices can be used as master clock or time source for synchronizing the module-internal clock: a time switch (e.g. 5WG1 372-5EY01), the N 350E IP controller (5WG1 350-1EB01) and the Touch-Manager wave (5WG3 583-2AB71). Width 1 MW (1 MW = 18 mm)	5WG1 341-1AB01		1	030	0.092
	<b>N 350 event, time and logic module</b> <b>with 10 event programs, each with up to 10 event jobs</b> , with start of an event program by the respective event object with selectable tripping criteria, with configurable delayed execution of each event job after tripping event, with weekly time switching program for <b>20 time objects, with up to 100 time jobs</b> for minute-precise switching, with assignment of each switching time for execution on one, several or all weekdays, <b>with 10 logic gates of type AND, NAND, OR or NOR, each with up to 6 inputs</b> and one output, inverting can be configured for each input, send conditions can be separately configured for each gate output (output filter), with internal module clock, which must be regularly synchronized by a master clock, with bus-powered electronics, with integrated bus coupling unit, bus connection over contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. The following devices can be used as master clock or time source for synchronizing the module-internal clock: a time switch (e.g. 5WG1 372-5EY01), the N 350E IP controller (5WG1 350-1EB01) and the Touch-Manager wave (5WG3 583-2AB71). Width 1 MW (1 MW = 18 mm)	5WG1 350-1AB01		1	030	0.092

# Control and Automation Devices

## Time/event modules

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>N 350E IP controllers</b>		<b>5WG1 350-1EB01</b>	1	030 0.184

**N 350E IP controllers**

with Ethernet (10BaseT) interface for configuration of the module and in conjunction with a PC running the supervision and control software ComBridge Studio for visualization of all states or values transmitted from KNX EIB over an Intranet or the Internet using the Internet protocol, with integrated real-time clock, with buffering of the real-time clock in case of power failure for a minimum of 2 years, with manual setting of the real-time clock and synchronization by a master clock over the bus interface or a time service over the Ethernet interface, with transmission of date and time over the bus, with up to 80 communication objects which can be used for switching, dimming, for solar protection control, measured value or count value transmission and for text output, with weekly time switching program for up to 100 timed jobs, with selectable tripping criteria and event programs for up to 200 event jobs, with up to 10 logic gates, each with up to 4 inputs, with selectable logic function AND or OR per gate, with inverting of each gate input, with LCD on the upper enclosure, with 3 pushbuttons for local setting of date and time, with electronics powered by an external power supply for 12 ... 36 V AC/DC, with pluggable terminal block for connection of external power supply unit, with integrated bus coupling unit, bus connection over bus terminal, Ethernet connection over RJ45 socket, for mounting on DIN rail EN 60715-TH135-7.5.

The software required for parameter assignment over the Ethernet interface is included in delivery on CD-ROM free of charge.

Width 4 MW (1 MW = 18 mm)

## Time switches and accessories

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>REG 371 2-channel weekly time switch</b> with 36 switching times, with 99-day holiday program, adjustable FOR 99 days in advance, with maintaining of switching time settings for up to 10 years in the event of power failure, with automatic daylight saving clock adjustment, with sending of switching, positively driven, dimming and transmit value telegrams, with cyclic sending of telegrams, with 1 scene per channel with up to four different telegrams, with temporary or permanent manual switching operation, with 7 jog pushbuttons for setting weekday, hour, minute, time of day, program input and 4 manual switching operations, with LCD for time of day, weekday, summer/winter time, holiday program, switching state of 2 channels, manual switching operation, with bus-powered electronics, with integrated bus coupling unit, bus connection over bus terminal, for mounting on DIN rail EN 60715-TH35-7.5 During configuration of the 2-channel weekly time switch, the installation engineer must carry out all the necessary settings. Width 2 MW (1 MW = 18 mm)	<b>5WG1 371-5EY01</b>	1	030	0.148
	<b>REG 372/0x 4-channel annual time switches</b> with 324 switching times for selectable daily, weekly and date commands, pulse commands, priority switching times, and 1x switching operation for holiday/public holidays, with normal weekly program configurable per channel and up to nine further weekly programs with priority levels P1 to P9, with random program, with 99-day holiday program, adjustable for 99 days in advance, with maintaining of switching time settings for up to 10 years in the event of power failure, with automatic calculation of moving bank holidays for the respective year, with automatic daylight saving clock adjustment, with sending of switching, positively driven, dimming and transmit value telegrams, with cyclic sending of telegrams, with 1 scene with up to four different telegrams, with temporary or permanent manual switching operation, with programming over PC using the memory module OBELISK, with 15 jog pushbuttons for setting weekday, hour, minute, time of day, program input and 4 manual switching operations, with LCD for time of day, weekday, summer/winter time, holiday program, switching state of 4 channels, with bus-powered electronics, with integrated bus coupling unit, bus connection over bus terminal, for mounting on DIN rail EN 60715-TH35-7.5 During configuration of the 4-channel annual time switch, the installation engineer must carry out all the necessary settings. Width 6 MW (1 MW = 18 mm)				
	<b>REG 372/01 4-channel annual time switch</b> with time / date synchronization over the bus.	<b>5WG1 372-5EY01</b>	1	030	0.360
	<b>REG 372/02 4-channel annual time switch</b> with automatic time and date synchronization over DCF-77, with effectiveness of the DCF-77 aerial within a range of 1000 km around Frankfurt, with sending of time and date over the bus, with integrated power supply for 230 V AC for powering the AP 390 DCF-77 aerial with 29 V DC. The AP 390 DCF-77 aerial must be ordered separately.	<b>5WG1 372-5EY02</b>	1	030	0.464

# Control and Automation Devices

## Time switches and accessories

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>REG 373 16-channel annual time switch with DCF-77 connection</b> with 500 switching times for selectable daily, weekly and date commands, pulse commands, priority switching times, and 1x switching operation for holiday/public holidays, with normal weekly program definable per channel and up to nine further weekly programs with priority levels P1 to P9, with random program that can be activated for each channel, with astro program for channels 1 to 4, with 99-day holiday program, adjustable for 99 days in advance, with maintaining of switching time settings for up to 10 years in the event of power failure, with automatic calculation of moving bank holidays for the respective year, with automatic daylight saving clock adjustment, with automatic time and date synchronization over DCF-77, with effectiveness of the DCF-77 aerial within a range of 1000 km around Frankfurt, with sending of time and date over the bus, with sending of switching, positively driven, dimming and transmit value telegrams, temperature and HVA operating mode telegrams, with 8 scenes for 6 scene objects with selectable telegram types (switching, positively driven operation, transmit value, temperature, HVA operating mode), with cyclic sending of telegrams, with 1 scene with up to four different telegrams, with temporary or permanent manual switching operation, with programming over PC using the memory module OBELISK, with 15 jog pushbuttons for setting weekday, hour, minute, time of day, program input and 4 manual switching operations, with LCD for time of day, weekday, summer/winter time, holiday program, switching state of 16 channels, manual switching operation, with integrated power supply for 230 V AC for powering the AP 390 DCF-77 aerial with 29 V DC, with bus-powered electronics, with integrated bus coupling unit, bus connection over bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. During configuration of the 16-channel annual time switch, the installation engineer must carry out all the necessary settings. Width 6 MW (1 MW = 18 mm)	5WG1 373-5EY01	1	030	0.481	
	<b>PC programming set with OBELISK</b> for fast and easy creation of switching programs for the REG 372 4-channel time switch, the REG 372/02 4-channel time switch with DCF77 connection and the REG 373 16-channel time switch with DCF77 connection, comprising software CD, OBELISK memory module, programming adapter and manual for the software, with readout and description of the memory module over the programming adapter of the PC programming set, which is connected to the serial interface of the PC, for transmission of the time switch program from PC to time switch using an OBELISK memory module 4KB programmed by the PC and then inserted in the time switch, and vice versa for transmitting a program from one time switch to another time switch using the memory module or with the PC software for fast copying of a switching program or parts of a switching program for insertion in a new or existing program, for archiving switching programs on the hard disk of a PC, for printing out switching programs in table form, for filtering switching programs acc. to specific search criteria, with display and printout of filtered switching programs.	5WG1 810-0EY01	1	030	0.431	
	<b>OBELISK 4K</b> EEPROM memory module with 4KB memory for programming the REG 372 4-channel time switch and the REG 372/02 4-channel time switch with DCF-77 connection.	5WG1 810-8EY01	1	030	0.023	
	<b>OBELISK 64K</b> EEPROM memory module with 64KB memory for programming the REG 373 16-channel time switch with DCF-77 connection.	5WG1 810-8EY02	1	030	0.021	
	<b>AP 390 DCF-77 aerial</b> for connection to up to 10 REG 372/02 4-channel annual time switch with DCF-77 connection or REG 373 16-channel annual time switch with DCF-77 connection, with red LED to indicate the reception of DCF-77 signal, with electronics powered with 29 V DC over the 4-channel or 16-channel time switch.	5WG1 390-3EY01	1	030	0.169	

\* You can order this quantity or a multiple thereof.

# 9

## System Products

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Bus coupling units and accessories  
Power supply units  
Chokes  
Line couplers  
Network couplers

9

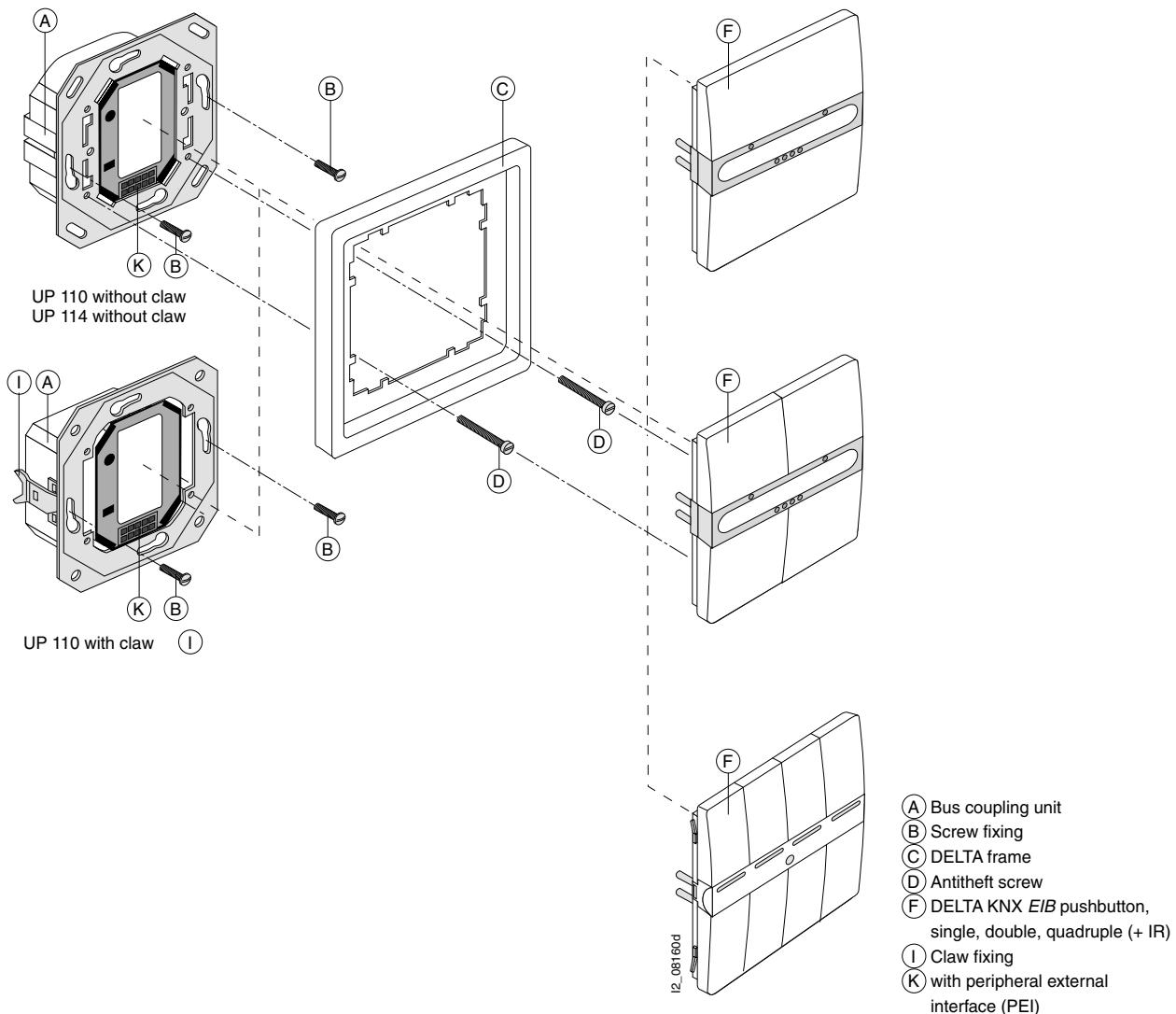
# System Products

## Bus coupling units and accessories

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>UP 110 bus coupling unit, with BCU1, for screw fastening, mounting depth 27 mm</b> for connection of a modular bus device to the bus line, with 10-pole peripheral external interface (PEI) for clipping on an application module, with reverse voltage protection for switching off the bus coupling unit if the bus cable is incorrectly connected, for installation in a switch and socket box with 60 mm in diameter and 40 mm depth, with bus connection via bus terminal. Dimensions (HxWxD): 71 x 71 x 27 mm	<b>5WG1 110-2AB03</b>		1	030	0.060
	<b>UP 110/11 bus coupling unit, with BCU1, for screw/claw fastening, mounting depth 19 mm</b> for connection of a modular bus device to the bus line, with 10-pole peripheral external interface (PEI) for clipping on an application module, with reverse voltage protection for switching off the bus coupling unit if the bus cable is incorrectly connected, for installation in a switch and socket box with 60 mm in diameter and 40 mm depth, mounting depth 19 mm for screw fastening and 32 mm for claw fastening, with bus connection via bus terminal. The mounting brackets (order no. 5WG1 294-8AB01) for fastening of the anti-theft screws must be ordered separately. Dimensions (HxWxD): 71 x 71 x 19 mm	<b>5WG1 110-2AB11</b>		1	030	0.066
	<b>Mounting bracket for UP 110/11</b> for fastening of the anti-theft screws of application modules, such as pushbuttons, room temperature controllers, etc. on the UP 110/11. 2 mounting brackets are required per UP 110/11 bus coupling unit.	<b>5WG1 294-8AB01</b>		10	030	0.008
	<b>UP 114 bus coupling unit, with BCU2, for screw fastening, mounting depth 16 mm</b> for connection of a modular bus device to the bus line, with 10-pole peripheral external interface (PEI) for clipping on an application module, with reverse voltage protection for switching off the bus coupling unit if the bus cable is incorrectly connected, for installation in a switch and socket box with 60 mm in diameter and 40 mm depth, with bus connection via bus terminal. Dimensions (HxWxD): 71 x 71 x 16 mm	<b>5WG1 114-2AB02</b>		1	030	0.060

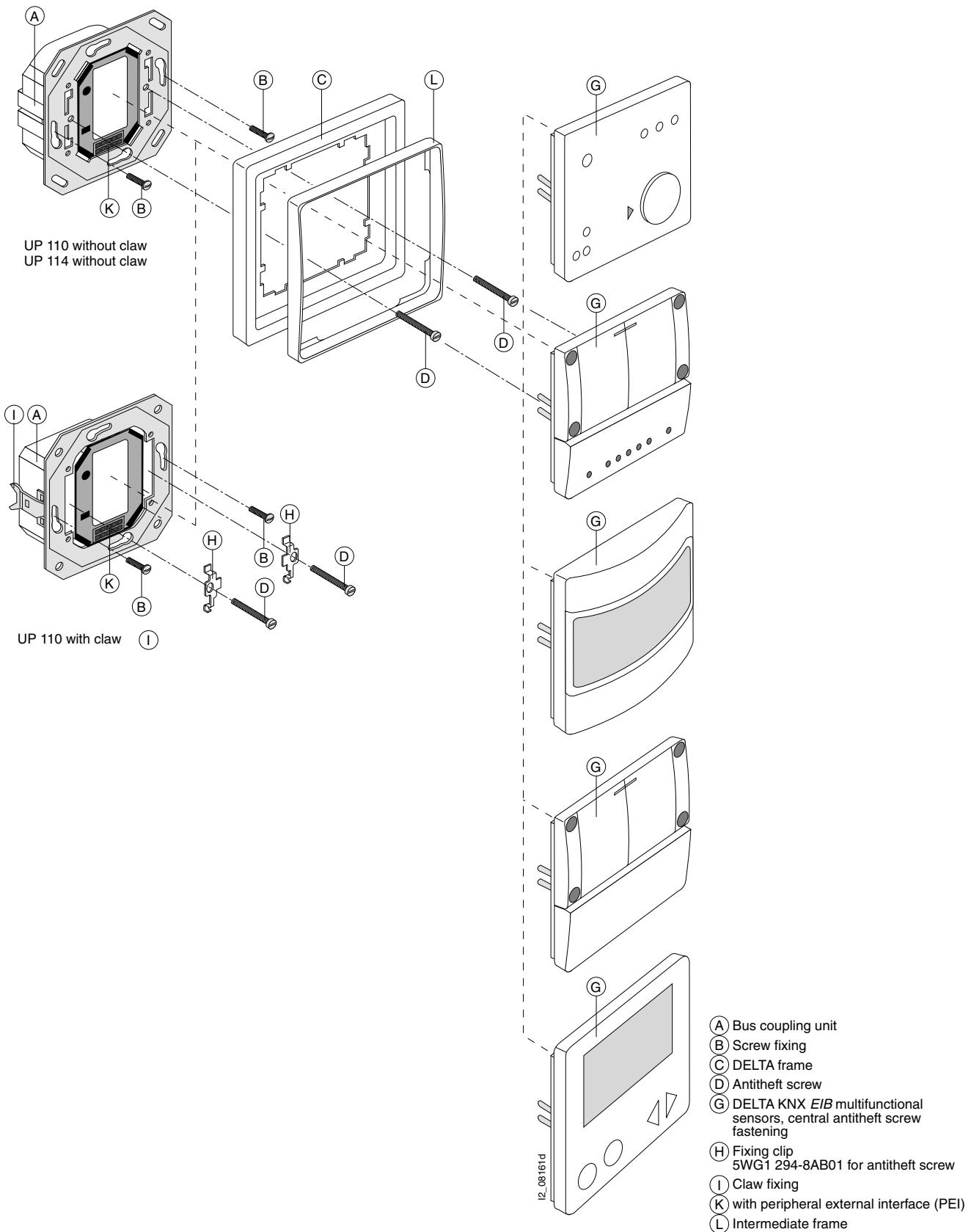
### instabus KNX EIB operator interface without intermediate frame



# System Products

## Bus coupling units and accessories

*instabus KNX EIB operator interface with intermediate frame*

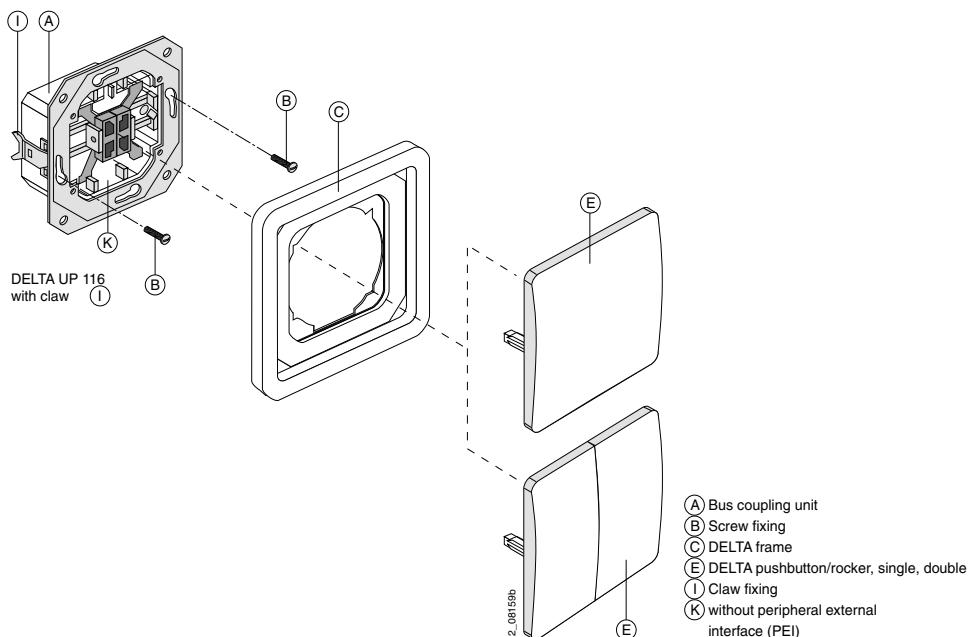


## Bus coupling units and accessories

		Order No.	Price	PS* P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA bus coupling units</b>						
	<b>UP 116 DELTA bus coupling units</b> The DELTA bus coupling units are single or double <i>instabus</i> pushbuttons with vertical operation and with an integrated bus coupling unit, with a holder for clipping on standard rockers from the DELTA product range. They are designed as flush-mounted devices for installation in switch and socket boxes, 60 mm in diameter, for screw fastening, prepared for claw fastening. The required single or double rocker, with or without window, in the matching DELTA-Design (see Catalog ET D1 · 2006) must be ordered separately. Dimensions (HxWxD): 71 x 71 x 32 mm					
	<b>UP 116/01 DELTA bus coupling unit, single, intermediate position</b> 5WG1 116-2AB01 designed for clipping on a single rocker, functioning as rocker pushbutton with two operating points, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, with distinction between short and long button press for control of dimming and solar protection, with two red LEDs as orientation light or for status indication.			1	030	0.080
	<b>UP 116/11 DELTA bus coupling unit, double, intermediate position</b> 5WG1 116-2AB11 designed for clipping on a double rocker, functioning as rocker pushbuttons with two operating points each, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, with distinction between short and long button press for control of dimming and solar protection, with one red LED per rocker as orientation light or for status indication.			1	030	0.080
	<b>UP 116/21 DELTA bus coupling unit, single, pushbutton position</b> 5WG1 116-2AB21 designed for clipping on a single rocker, functioning as pushbutton with one operating point, with freely configurable function: toggle, switch On, switch Off, with two red LEDs as orientation light or for status indication.			1	030	0.080
	<b>UP 116/31 DELTA bus coupling unit, double, pushbutton position</b> 5WG1 116-2AB31 designed for clipping on a double rocker, functioning as pushbuttons with one operating point each, with freely configurable function: toggle, switch On/Off, switch On/Off and dim, solar protection control, with distinction between short and long button press for control of dimming and solar protection, with one red LED per pushbutton as orientation light or for status indication.			1	030	0.080
	<b>UP 196 paint shields</b> for protection of an already installed flush-mounting bus coupling unit, DELTA bus coupling unit or flush-mounting actuator with peripheral external interface (PEI) until the application module is mounted.	5WG1 196-2AB01		10	030	0.003

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Operator interface with *DELTA* bus coupling unit



\* You can order this quantity or a multiple thereof.

Siemens FT G1 INT · 2006

# System Products

## Power supply units

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>N 125/01 power supply unit, 160 mA</b> with integrated choke, rated operational voltage 120...230 V AC, 50...60 Hz, output voltage 29 V DC, output current 160 mA, with connection of the choke-protected output voltage via a contact system for data rails and via a plug-in extra-low voltage terminal or bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 MW = 18 mm)	<b>5WG1 125-1AB01</b>		1	030	0.240
	<b>N 125/11 power supply, 320 mA</b> with integrated choke, rated operational voltage 120...230 V AC, 50...60 Hz, output voltage 29 V DC, output current 320 mA, with connection of the choke-protected output voltage via a contact system for data rails and via a plug-in extra-low voltage terminal or bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 4 MW (1 MW = 18 mm)	<b>5WG1 125-1AB11</b>		1	030	0.230
	<b>N 125/21 power supply units, 640 mA</b> with integrated choke, rated operational voltage 120...230 V AC, 50...60 Hz, output voltage 29 V DC, output current 640 mA, with additional non-choke-protected output for 29 V DC for supply of a second bus line via an external choke, with connection of choke-protected output voltage via a contact system for data rails and via a plug-in extra-low voltage terminal or bus terminal, with connection of the non-choke-protected output voltage via a plug-in extra-low voltage terminal, for mounting on DIN rail EN 60715-TH35-7.5. In order to use the non-choke-protected output, an N 120 choke must first be connected. Width 4 MW (1 MW = 18 mm)	<b>5WG1 125-1AB21</b>		1	030	0.240
	<b>N 123 power supply unit (120 V AC 320 mA)</b> The power supply unit provides and monitors the system power supply required for the instabus EIB. At least one N 123 power supply unit is required for each bus cable. These units can only be used in conjunction with the N 120 choke. The choke and power supply unit must be linked through the same data rail and thus mounted on the same mounting rail in the distribution board.	<b>5WG1 123-1CB01</b>	UL	1	030	0.775

## Chokes

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>N 120 choke, 500 mA</b> for operation with an EIB power supply unit without integrated choke (e.g. N 121, N 123) or for connection to the non-choke-protected output of the N 125/21 EIB power supply unit, 640 mA, with contact system for data rail, for mounting on DIN rail EN 60715-TH35-7.5. The choke prevents a short circuit of the data telegrams by a bus power supply unit without integrated choke. Width 2 MW (1 MW = 18 mm)	<b>5WG1 120-1AB01</b>		1	030	0.105
	<b>N 120/02 choke, 640 mA</b> for operation with an EIB power supply unit without integrated choke (e.g. N 121, N 123) or for connection to the non-choke-protected output of the N 125/21 EIB power supply unit, 640 mA, with contact system for data rail, with extra-low voltage terminals for non-choke-protected voltage and bus, for mounting on DIN rail EN 60715-TH35-7.5. The choke prevents a short circuit of the data telegrams by a bus power supply unit without integrated choke. Width 2 MW (1 MW = 18 mm)	<b>5WG1 120-1AB02</b>		1	030	0.105

\* You can order this quantity or a multiple thereof.

## Line couplers

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>N 140_3 line/backbone couplers</b> for data exchange between two EIB bus lines via telegrams of up to 64 byte, for use as line coupler for connecting a line to the main line or as backbone coupler for connecting a main line to the backbone line or as repeater for connecting two segments of the same line, with electrical isolation of the two bus lines, with 3 LED for display of availability and receipt of a telegram per line, with loadable filter table for control of the data exchange between the two bus lines, with additional loadable filter table for telegrams with LTE addressing, with detection of a communication fault on the lower-level line and signaling to the higher-level line, with power supply from the higher-level line, for mounting on DIN rail EN 60715-TH35-7.5. As far as the hardware is concerned, there is no difference between line coupler, backbone coupler and repeater. They therefore have the same order number. The function of the coupler is set to line or backbone coupler automatically when the physical address is set using the ETS.					
<b>N 140/03 line/backbone coupler</b> with bus connection to the line via contact system for data rail and to the main line via bus terminal. Width 1 MW (1 MW = 18 mm)	<b>5WG1 140-1AB03</b>	1	030	0.060	
<b>N 140/13 line/backbone coupler</b> with bus connection to the line and to the main line via bus terminal. Width 2 MW (1 MW = 18 mm)	<b>5WG1 140-1AB13</b>	1	030	0.085	
<b>N 146 IP router</b> for interconnection of bus lines or bus areas over a fast data network (Ethernet 10BaseT) with Internet protocol (IP), can be used as line, area or network gateway (worlds gateway) and for communication between KNX EIB devices and PCs or other devices with Ethernet interface, as well as in conjunction with a LAN modem for remote access to an KNX EIB installation, for use as an interface e.g. for ETS3 or for visualization software, uses the KNXnet/IP protocol, with assignment of the network parameters by the installation engineer using ETS or automatically by a DHCP service in the network, with 5 LEDs for display of availability, KNX EIB communication and IP communication, with electronics powered over an external power supply for 24 V AC/DC, with pluggable terminal block for connection of external power supply unit (not included), with integrated bus coupling unit, with bus connection over bus terminal, Ethernet connection over RJ45 socket, as modular for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 MW = 18 mm)	<b>5WG1 146-1AB01</b>	1	030	0.126	



# System Products

## Network couplers

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>N 146 IP router</b> for interconnection of bus lines or bus areas over a fast data network (Ethernet 10BaseT) with Internet protocol (IP), can be used as line, area or network gateway (worlds gateway) and for communication between KNX EIB devices and PCs or other devices with Ethernet interface, as well as in conjunction with a LAN modem for remote access to an KNX EIB installation, for use as an interface e.g. for ETS3 or for visualization software, uses the KNXnet/IP protocol, with assignment of the network parameters by the installation engineer using ETS or automatically by a DHCP service in the network, with 5 LEDs for display of availability, KNX EIB communication and IP communication, with electronics powered over an external power supply for 24 V AC/DC, with pluggable terminal block for connection of external power supply unit (not included), with integrated bus coupling unit, with bus connection over bus terminal, Ethernet connection over RJ45 socket, as modular for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 MW = 18 mm)	<b>5WG1 146-1AB01</b>		1	030	0.126
	<b>N 148/21 IP Interface</b> for communication between KNX EIB devices and PCs or other devices with Ethernet (10BaseT) interface, as well as in conjunction with a LAN modem for remote access to an KNX EIB installation, for use as an interface e.g. for ETS3 or for visualization software, uses the KNXnet/IP protocol, with assignment of the network parameters by the installation engineer using ETS or automatically by a DHCP service in the network, with 5 LEDs for display of availability, KNX EIB communication and IP communication, with electronics powered over an external power supply for 24 V AC/DC, with pluggable terminal block for connection of external power supply unit (not included), with integrated bus coupling unit, with bus connection over bus terminal, Ethernet connection over RJ45 socket, for mounting on DIN rail EN 60715-TH35-7.5. Width 2 MW (1 MW = 18 mm)	<b>5WG1 148-1AB21</b>		1	030	0.126

# 10

## System Accessories

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Cover strips  
Bus terminals  
Data rails  
Overvoltage protection

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# System Accessories

## Cover strips

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>192 cover strip for mounting rails, length 242 mm</b> for covering free data rail segments (in accordance with the SELV regulations for safety extra-low voltage); for snapping onto mounting rails, separable, RAL 7035. Length 13.5 MW (1 MW = 18 mm)	<b>5WG1 192-8AA01</b>		5	030	0.014

## Bus terminals

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>193 bus terminal, 2-pole, 4 plug-in connectors</b> for connection of bus devices to the bus cable, for linking up to 4 bus cables, comprising two engaged clamp parts + (red) and - (dark gray), each with 4 screwless plugtype terminals per clamp part for solid conductors, 0.6 to 0.8 mm in diameter Dimensions (HxDxW): 12.4 x 10 x 10 mm • red/dark gray	<b>5WG1 193-8AB01</b>		25	030	0.002

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>Data rails for TH35-7.5 standard mounting rails</b>					
<b>190/_1 data rails without connector</b>					
for sticking (self-adhesive) in a EN 60715 TH35-7.5 standard flat mounting rail, for interconnecting DIN rail mounted devices via their contact system.					
<ul style="list-style-type: none"> <li>Length 214 mm (for max. 12 MW)</li> <li>Length 243 mm (for max. 14 MW)</li> <li>Length 277 mm (for max. 16 MW)</li> <li>Length 324 mm (for max. 18 MW)</li> <li>Length 428 mm (for max. 24 MW)</li> <li>Length 464 mm (for max. 26 MW)</li> </ul>	<b>5WG1 190-8AB01</b> <b>5WG1 190-8AB11</b> <b>5WG1 190-8AB21</b> <b>5WG1 190-8AB31</b> <b>5WG1 190-8AB41</b> <b>5WG1 190-8AB51</b>		5	030	0.017
			5	030	0.020
			5	030	0.023
			5	030	0.026
			5	030	0.032
			5	030	0.037
<b>190/_2 data rails with connector</b>					
for sticking (self-adhesive) in a EN 60715 TH35-7.5 standard flat mounting rail, with 2 bus terminals (red/dark gray) for bus voltage, with 2 extra-low voltage terminals (white/yellow) for non-choke-protected voltage, for interconnecting DIN rail mounted devices via their contact system and for interconnecting data rails and connecting with a bus cable.					
<ul style="list-style-type: none"> <li>Length 214 mm (for max. 12 MW)</li> <li>Length 243 mm (for max. 14 MW)</li> <li>Length 277 mm (for max. 16 MW)</li> <li>Length 324 mm (for max. 18 MW)</li> <li>Length 428 mm (for max. 24 MW)</li> <li>Length 464 mm (for max. 26 MW)</li> </ul>	<b>5WG1 190-8AB02</b> <b>5WG1 190-8AB12</b> <b>5WG1 190-8AB22</b> <b>5WG1 190-8AB32</b> <b>5WG1 190-8AB42</b> <b>5WG1 190-8AB52</b>		5	030	0.030
			5	030	0.030
			5	030	0.035
			5	030	0.035
			5	030	0.050
			5	030	0.050
<b>Data rails for TH35-15 standard mounting rails, rail size 24 mm</b>					
<b>190/_3 data rails without connector</b>					
for sticking (self-adhesive) in a EN 60715 TH35-15 standard deep mounting rail, rail size 24 mm for interconnecting DIN rail mounted devices via their contact system.					
<ul style="list-style-type: none"> <li>Length 214 mm (for max. 12 MW)</li> <li>Length 243 mm (for max. 14 MW)</li> <li>Length 277 mm (for max. 16 MW)</li> <li>Length 324 mm (for max. 18 MW)</li> <li>Length 428 mm (for max. 24 MW)</li> <li>Length 464 mm (for max. 26 MW)</li> </ul>	<b>5WG1 190-8AB03</b> <b>5WG1 190-8AB13</b> <b>5WG1 190-8AB23</b> <b>5WG1 190-8AB33</b> <b>5WG1 190-8AB43</b> <b>5WG1 190-8AB53</b>		5	030	0.027
			5	030	0.032
			5	030	0.025
			5	030	0.037
			5	030	0.048
			5	030	0.051
<b>190/_4 data rails with connector</b>					
for sticking (self-adhesive) in a EN 60715 TH35-15 standard deep mounting rail, rail size 24 mm, with 2 bus terminals (red/dark gray) for bus voltage, with 2 extra-low voltage terminals (white/yellow) for non-choke-protected voltage, for interconnecting DIN rail mounted devices via their contact system and for interconnecting data rails and connecting with a bus cable.					
<ul style="list-style-type: none"> <li>Length 214 mm (for max. 12 MW)</li> <li>Length 243 mm (for max. 14 MW)</li> <li>Length 277 mm (for max. 16 MW)</li> <li>Length 324 mm (for max. 18 MW)</li> <li>Length 428 mm (for max. 24 MW)</li> <li>Length 464 mm (for max. 26 MW)</li> </ul>	<b>5WG1 190-8AB04</b> <b>5WG1 190-8AB14</b> <b>5WG1 190-8AB24</b> <b>5WG1 190-8AB34</b> <b>5WG1 190-8AB44</b> <b>5WG1 190-8AB54</b>		5	030	0.058
			5	030	0.060
			5	030	0.070
			5	030	0.075
			5	030	0.105
			5	030	0.110

## Overvoltage protection

### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
 <b>DEHN overvoltage protection</b> for the overvoltage fine protection of bus devices, for inserting in a bus device instead of a 193 bus terminal or for direct connection to a bus terminal, for surge protection through connection of the green ground conductor to the next grounding point, with 2 socket contacts (1 mm diameter) for insertion in bus devices, with 2 solid wires (0.8 mm diameter) for connection to the bus terminal, with 1 solid wire (0.75 mm <sup>2</sup> ) for surge protection, rated voltage 24 V DC, rated current 6 A, rated discharge current 5 kA, protection level 350 V. Dimensions (HxWxD): 10.5 x 11.6 x 11.1 mm	<b>5WG1 190-8AD01</b>		1	030	0.010

# Counters

11/2  
11/2

Operating hours/pulse counters  
Electrical energy meters

11

# Counters

## Operating hours/pulse counters

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>N 343 operating hours and switching operations counter</b> for totalizing of operating hours and counting of switching operations/pulses for up to 36 sensor / actuator channels with 1-bit switching objects, with limit values for all count values, with message transmission via the bus when the current value exceeds or falls below these limits, with option for monitoring the switching telegrams for all configured channels or cyclical query of the states, with second precision recording of the operating hours of a channel through evaluation of the On period, with incrementation of a switching operations / pulse counter when switching from Off to On, with option for querying all counting and limit values during runtime and setting each to a new freely definable value, for totalizing the operating hours with a maximum runtime of approx. 136 years, for counting a maximum of 4.3 billion switching operations/pulses per channel, with bus-powered electronics, with integrated bus coupling unit, bus connection via contact system to data rail, for mounting on DIN rail EN 60715-TH35-7.5. Width 1 MW (1 MW = 18 mm)	5WG1 343-1AB01	1	030	0.092	

## Electrical energy meters

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
	<b>E meters</b> for measuring the import of electrical energy in kWh in single-phase and 3-phase systems, with PTB approval, with accuracy class 2, with short-circuit resistant S0 pulse output, with 3/4 wire connection, with LCD for display of active energy, price per kWh, total costs, reactive energy, current active power (total per phase), device number, with manual readout over the built-in LCD, with readout of data via IR data interface, with reading / sending of data via bus, with screw-type terminals for connection of L1, L2, L3, N and S0 pulse output, with electronics powered by an integrated power supply unit for 230/400 V AC, 50 Hz, with integrated bus coupling unit, bus connection via bus terminal, for mounting on DIN rail EN 60715-TH35-7.5. Width 6 MW (1 MW = 18 mm)					
	<b>N 162 E meter</b> with direct connection of 230 V AC with up to 63 A.	7KT1 162	1	027	0.450	
	<b>N 165 E meter</b> with transformer connection 5(6) A.	7KT1 165	1	027	0.390	

<b>Display, Operation</b>	12/2 12/5 12/9 12/10 12/11	General data Pushbuttons Pushbutton accessories Touch panels Remote controls
<b>Output Devices</b>	12/12	Binary output devices
<b>Input Devices</b>	12/12	Outlet switches
<b>Devices for Special Applications</b>	12/13 12/14 12/15	Binary input devices Lighting Sun protection, anti-glare protection, utilization of daylight
<b>Gateways, Interface Converters</b>	12/16	Safety
<b>System Products</b>	12/17 12/18 12/19	KNX EIB/KNX radio Transmitters, receivers Repeaters

## General data

### Overview

#### GAMMA wave – the multifunctional system

Enjoy all the advantages of a modern building control system without the need for additional cable installation – with the GAMMA wave radio system, it couldn't be simpler.

Sensors, actuators, etc. do not require any additional cable installation. This means that this type of radio transmission is particularly suitable for renovation work, the expansion of existing systems and all types of new installations. And all complete with absolutely fail-safe and problem-free transmission.

And what's more:

GAMMA wave is a unique bi-directional radio system – this means that the products and components can be both transmitter and receiver.

And:

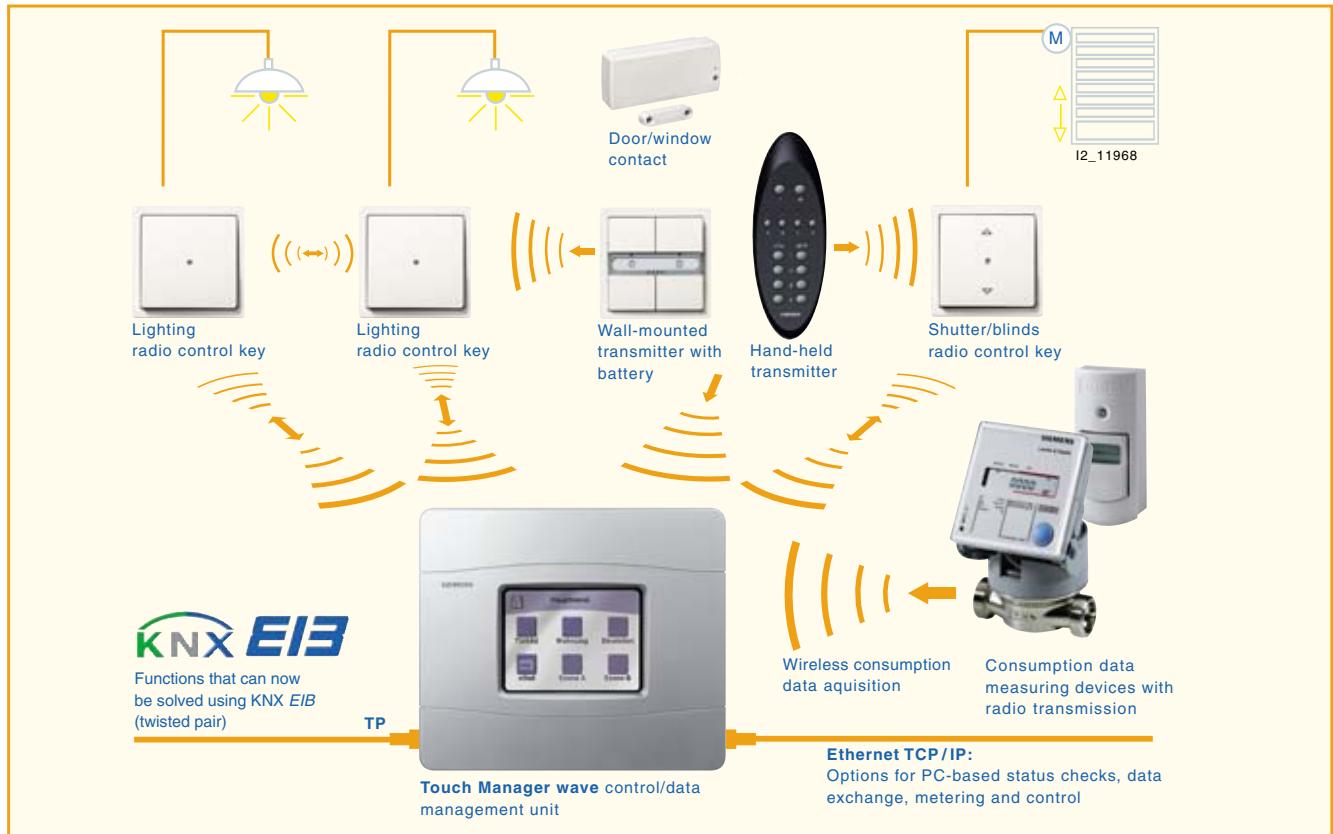
GAMMA wave is based on the new, uniform standard for KNX building management systems in the 868 MHz range.

#### Services

Services offered through third parties.

#### Consumption data acquisition and emergency call systems

Products of other Siemens ranges or other manufacturers based on KNX standards.



## General data

## Before

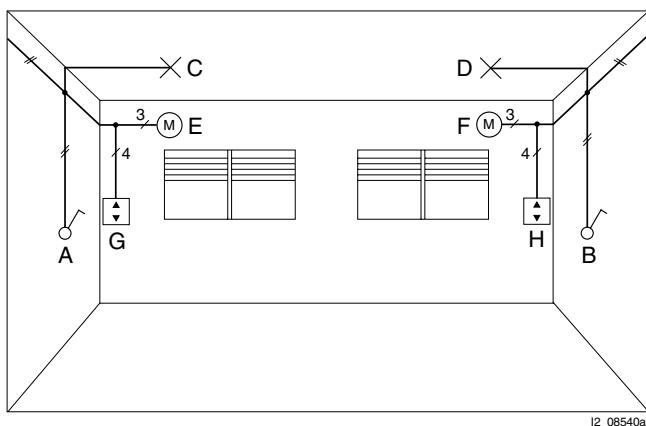
## Lighting and shutter/blind control of a conventional installation

Example of a conventional installation with lighting and electrically operated shutters/blinds.

- Light (C) can only be switched with switch (A)
- Light (D) can only be switched with switch (B)
- Shutter/blind (E) can only be moved with switch (G)
- Shutter/blind (F) can only be moved with switch (H)

## Disadvantages

- Inflexible
- No convenience (each light must be switched individually).



## After

## Lighting and shutter/blind control with GAMMA wave ("bi-directional" radio system)

Modification of the installation for shared operation of lighting and shutters/blinds from various operating points.

Replacement of conventional switch inserts (A, B) with

- Universal dimmer insert sys
- Pushbutton wave UP 210

Replacement of conventional shutter/blind switches (G, H) with

- Shutter control insert sys
- Pushbutton wave shutter UP 211

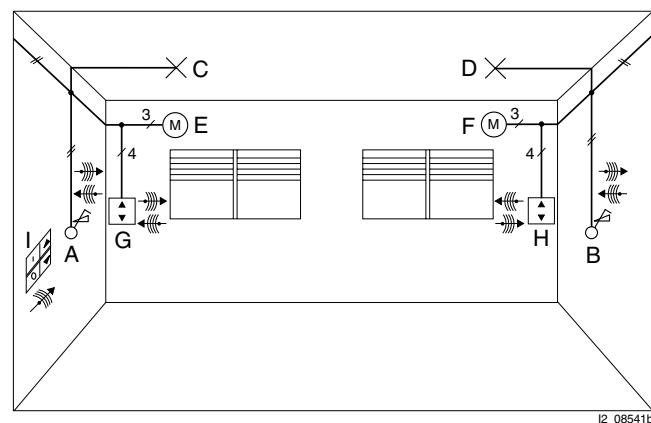
With this switch you can:

- Dim lights C and D from A and/or B
- Operate shutters/blinds E and F from G and/or H

For additional operation of the lights and shutters/blinds, a transmitter battery wave UP 110 (I) with a *instabus* pushbutton double can be installed

## Advantages

- Flexible
- Greater operational ease
- Groups can be formed
- Fewer devices required/lower costs
- Simple and clean retrofitting – no structural alterations required



## General data

Due to its implementation of future-pointing technology, the "wave" device range is ideally suited for the retrofitting and modification of room control functions in existing buildings.

These products offer simple installation and commissioning, thus enabling the wireless remote control of switching, dimming, shutter/blind and scene functions.

The system operates in the 868 MHz fail-safe frequency band that is reserved for safety and system applications. A sensor can control a unlimited number of actors within the reach (e. g. an individual residential unit). Each radio-linked actor channel can be operated of up to 10 sensors in different groups.

The product line includes next to the pushbutton wave for lighting control, the pushbutton wave shutter for shutter/blind control, also different wall transmitters, hand-held transmitters, door-/ window contacts and smoke detector.

The pushbutton wave and the pushbutton wave shutter must be used in combination with the universal dimmer insert sys or switch insert sys and the shutter control insert sys. This enables the local operation and remote control of the inserts located beneath the pushbuttons, as well as the remote control of additional radio-linked universal dimmer inserts sys, switch dimmer inserts sys or shutter control inserts sys.

The *instabus* pushbutton (single or double) must be clipped on as an operator interface for the transmitter battery wave, transmitter 230V wave or transmitter Actuator 230V wave. In accordance with their intended purpose, the pushbutton rocker enables remote control of the universal dimmer inserts sys, switch inserts sys or shutter control inserts sys, which are equipped with the pushbutton wave or pushbutton wave shutter.

The device inserts are fitted with fixing claws and have a maximum mounting depth of 32 mm. This makes mounting in standard flush-mounting switch boxes considerably easier.

## GAMMA wave flush-mounting combinations

Operator interfaces	Pushbutton sys	Pushbutton wave UP 210	Pushbutton sys shutter	Pushbutton wave shutter UP 211	<i>instabus</i> pushbutton, single, double
<b>Device inserts</b>					
<b>Universal dimmer insert sys</b>	x	x	-	-	-
<b>Switch insert sys</b>	-	x	-	-	-
<b>Shutter control insert sys</b>	-	-	x	x	-
<b>Transmitter battery wave UP 110</b>	-	-	-	-	x
<b>Transmitter 230V wave UP 110</b>	-	-	-	-	x
<b>Transmitter Actuator 230V wave UP 560</b>	-	-	-	-	x

Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
<b>DELTA i-system</b>		<b>Pushbuttons sys</b> for local operation of a switch insert sys, as pushbutton rocker single, with intermediate position and with vertical operation, with switch over, with distinction between short and long button press for control of dimming, with 10-pole connector for clipping onto a universal dimmer insert sys. The universal dimmer insert sys and the respective frame in the designs DELTA line, DELTA vita or DELTA miro must be ordered separately. Dimensions (HxWxD): 55 x 55 x 13 mm • titanium white • carbon metallic • aluminum metallic	<b>5TC1 301</b> <b>5TC1 302</b> <b>5TC1 303</b>	1 1 1	024 024 024	0.043 0.043 0.043
<b>DELTA profil</b>		<b>Pushbuttons sys shutter</b> for local operation of a shutter control insert sys, as pushbutton rocker single, with intermediate position and with vertical operation, with distinction between short and long button press for shutter/blind control, with 10-pole connector for clipping onto a shutter control insert sys. The shutter control insert sys and the respective frame in the designs DELTA line, DELTA vita or DELTA miro must be ordered separately. Dimensions (HxWxD): 55 x 55 x 13 mm • titanium white • carbon metallic • aluminum metallic	<b>5TC1 321</b> <b>5TC1 322</b> <b>5TC1 323</b>	1 1 1	024 024 024	0.035 0.035 0.035
		<b>Pushbuttons sys</b> for local operation of a switch insert sys, as pushbutton rocker single, with intermediate position and with vertical operation, with switch over, with distinction between short and long button press for control of dimming, with 10-pole connector for clipping onto a universal dimmer insert sys. The universal dimmer insert sys and the respective cut out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm • titanium white • pearl gray • anthracite • silver • champagne • bronze • tobacco	<b>5TC1 310</b> <b>5TC1 311</b> <b>5TC1 312</b> <b>5TC1 313</b> <b>5TC1 314</b> <b>5TC1 315</b> <b>5TC1 316</b>	1 1 1 1 1 1 1	024 024 024 024 024 024 024	0.048 0.048 0.048 0.048 0.048 0.048 0.050
		<b>Pushbuttons sys shutter</b> for local operation of a shutter control insert sys, as pushbutton rocker single, with intermediate position and with vertical operation, with distinction between short and long button press for shutter/blind control, with 10-pole connector for clipping onto a shutter control insert sys. The shutter control insert sys and the respective cut out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm • titanium white • pearl gray • anthracite • silver • champagne • bronze • tobacco	<b>5TC1 330</b> <b>5TC1 331</b> <b>5TC1 332</b> <b>5TC1 333</b> <b>5TC1 334</b> <b>5TC1 335</b> <b>5TC1 336</b>	1 1 1 1 1 1 1	024 024 024 024 024 024 024	0.035 0.035 0.035 0.035 0.050 0.050 0.050

# wave

## Display, Operation

### Pushbuttons

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
<b>DELTA style</b>					
	<b>Pushbuttons sys</b> for local operation of a switch insert sys, as pushbutton rocker single, with intermediate position and with vertical operation, with switch over, with distinction between short and long button press for control of dimming, with 10-pole connector for clipping onto a universal dimmer insert sys. The universal dimmer insert sys and the respective frame must be ordered separately. Dimensions (HxWxD): 68 x 68 x 16.5 mm • titanium white • basalt black	<b>5TC1 317</b> <b>5TC1 318</b>	1 1	024 024	0.050 0.050
	<b>Pushbuttons sys shutter</b> for local operation of a shutter control insert sys, as pushbutton rocker single, with intermediate position and with vertical operation, with distinction between short and long button press for shutter/blind control, with 10-pole connector for clipping onto a shutter control insert sys. The shutter control insert sys and the respective frame must be ordered separately. Dimensions (HxWxD): 68 x 68 x 16.5 mm • titanium white • basalt black	<b>5TC1 337</b> <b>5TC1 338</b>	1 1	024 024	0.035 0.035

Pushbuttons

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
			1 unit	Unit(s)		kg
<b>DELTA i-system</b>						
	<b>UP 210 pushbuttons wave</b> for local and remote operation of a switch insert sys or universal dimmer insert sys over radio, as pushbutton rocker single, with intermediate position and with vertical operation, with switch over, with distinction between short and long button press for control of dimming, with adjustable timer function with a overrun time of 1-60 minutes, with 1 LED for display of different operating states, with KNX radio transmitter/receiver for 868 MHz, with commissioning by pressing the push button surface, with 10-pole connector for clipping onto a switch insert sys or universal dimmer insert sys. The switch insert sys or universal dimmer insert sys and the respective frame in the designs DELTA line, DELTA vita or DELTA miro must be ordered separately. Dimensions (HxWxD): 55 x 55 x 13 mm • titanium white • carbon metallic • aluminum metallic	<b>5WG3 210-2HB11</b> <b>5WG3 210-2HB21</b> <b>5WG3 210-2HB31</b>	1 1 1	030 030 030	0.030 0.030 0.030	
	<b>UP 211 pushbuttons wave shutter</b> for local and remote operation of a shutter control insert sys over radio, as pushbutton rocker single, with intermediate position and with vertical operation, with distinction between short and long button press for shutter/blind control, with 24-hour automatic operation for raising and lowering shutter/blind, with 1 LED for display of different operating states, with KNX radio transmitter/receiver for 868 MHz, with commissioning by pressing the push button surface, with 10-pole connector for clipping onto a shutter control insert sys. The shutter control insert sys and the respective frame in the designs DELTA line, DELTA vita or DELTA miro must be ordered separately. Dimensions (HxWxD): 55 x 55 x 13 mm • titanium white • carbon metallic • aluminum metallic	<b>5WG3 211-2HB11</b> <b>5WG3 211-2HB21</b> <b>5WG3 211-2HB31</b>	1 1 1	030 030 030	0.030 0.030 0.030	
<b>DELTA profil</b>						
	<b>UP 210 pushbuttons wave</b> for local and remote operation of a switch insert sys or universal dimmer insert sys over radio, as pushbutton rocker single, with intermediate position and with vertical operation, with switch over, with distinction between short and long button press for control of dimming, with adjustable timer function with a overrun time of 1-60 minutes, with 1 LED for display of different operating states, with KNX radio transmitter/receiver for 868 MHz, with commissioning by pressing the push button surface, with 10-pole connector for clipping onto a switch insert sys or universal dimmer insert sys. The switch insert sys or universal dimmer insert sys and the respective cut out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm • pearl gray • titanium white • anthracite • silver	<b>5WG3 210-2AB01</b> <b>5WG3 210-2AB11</b> <b>5WG3 210-2AB21</b> <b>5WG3 210-2AB71</b>	1 1 1 1	030 030 030 030	0.035 0.035 0.035 0.035	
	<b>UP 211 shutter/blind pushbuttons wave</b> for local and remote operation of a shutter control insert sys over radio, as pushbutton rocker single, with intermediate position and with vertical operation, with distinction between short and long button press for shutter/blind control, with 24-hour automatic operation for raising and lowering shutter/blind, with 1 LED for display of different operating states, with KNX radio transmitter/receiver for 868 MHz, with commissioning by pressing the push button surface, with 10-pole connector for clipping onto a shutter control insert sys. The shutter control insert sys and the respective cut out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm • pearl gray • titanium white • anthracite • silver	<b>5WG3 211-2AB01</b> <b>5WG3 211-2AB11</b> <b>5WG3 211-2AB21</b> <b>5WG3 211-2AB71</b>	1 1 1 1	030 030 030 030	0.035 0.035 0.035 0.035	

# wave

## Display, Operation

### Pushbuttons

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
<b>DELTA style</b>						
	<b>UP 210 pushbuttons wave</b> for local and remote operation of a switch insert sys or universal dimmer insert sys over radio, as pushbutton rocker single, with intermediate position and with vertical operation, with switch over, with distinction between short and long button press for control of dimming, with adjustable timer function with a overrun time of 1-60 minutes, with 1 LED for display of different operating states, with KNX radio transmitter/receiver for 868 MHz, with commissioning by pressing the push button surface, with 10-pole connector for clipping onto a switch insert sys or universal dimmer insert sys. The switch insert sys or universal dimmer insert sys and the respective frame must be ordered separately. Dimensions (HxWxD): 68 x 68 x 16.5 mm • titanium white • basalt black	<b>5WG3 210-2GB11</b> <b>5WG3 210-2GB21</b>	1 1	030 030	0.036 0.036	
	<b>UP 211 shutter/blind pushbuttons wave</b> for local and remote operation of a shutter control insert sys over radio, as pushbutton rocker single, with intermediate position and with vertical operation, with distinction between short and long button press for shutter/blind control, with 24-hour automatic operation for raising and lowering shutter/blind, with 1 LED for display of different operating states, with KNX radio transmitter/receiver for 868 MHz, with commissioning by pressing the push button surface, with 10-pole connector for clipping onto a shutter control insert sys. The shutter control insert sys and the respective frame must be ordered separately. Dimensions (HxWxD): 68 x 68 x 16.5 mm • titanium white • basalt black	<b>5WG3 211-2GB11</b> <b>5WG3 211-2GB21</b>	1 1	030 030	0.035 0.035	

Selection and ordering data

Surface-mounting enclosures

		Order No.	Price	PS*/	PG	Weight
				P. unit		
DELTA profil						
	<b>M 110 surface-mounting enclosures, single</b> for surface mounting of the wall-mounted transmitter battery wave UP 110. The respective cut-out frame must be ordered separately. Dimensions (HxWxD): 80 x 80 x 30 mm • pearl gray • titanium white • anthracite • silver			5WG3 110-8AB01 5WG3 110-8AB11 5WG3 110-8AB21 5WG3 110-8AB71	1 1 1 1	030 0.048 030 0.048 030 0.048 030 0.048

Blanking cover plates

		Order No.	Price	PS*/	PG	Weight
				P. unit		
DELTA i-system						
	<b>Blanking cover plates</b> Dimensions (HxW): 55 x 55 mm • titanium white • carbon metallic • aluminum metallic			5TG2 558 5TG1 220 5TG1 250	1/10 1/10 1/10	021 0.041 021 0.041 021 0.041
	<b>Blanking cover plates</b> Dimensions (HxW): 65 x 65 mm • titanium white • pearl gray • anthracite • silver			5TG1 810 5TG1 870 5TG1 840 5TG1 770	1/10 1/10 1/10 1/10	021 0.041 021 0.041 021 0.041 021 0.041
	<b>Blanking cover plates</b> Dimensions (HxW): 68 x 68 mm • titanium white • basalt black			5TG1 330 5TG1 370	1/10 1/10	021 0.054 021 0.054
	<b>Blanking cover plates</b> Dimensions (HxW): 65 x 65 mm • arctic white			5TG1 510	1/5	021 0.056

# wave

## Display, Operation

### Touch panels

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>UP 58x Touch Manager wave</b> with touch-sensitive 5.7" display, with a resolution of 320 x 240 pixels, with touch-activated and automatically deactivated background lighting, for monitoring and control of up to 70 actuator and 40 sensor channels, with display of alarms of smoke detectors, of images of a connected WebCam, of the switching status of switchable devices, of the status of door/window contacts, of the battery status and the quality of the radio transmission of battery-powered devices with KNX RF communication, with relaying of alarms and other messages by email, with scene control for 16 scenes with a total of approx. 200 actuator channels and scene triggering operations (from push buttons of the Touch-Manager wave, external sensors or schedule entries), with up to 7 room temperature controllers (currently available for KNX EIB only) with up to 50 comfort heating periods, with gateway function between KNX RF and KNX EIB, with display of the outdoor temperature received over KNX EIB, for use as a browser for HTML pages on an external server, with optional remote control, remote monitoring and remote configuration of the Touch Manager wave from any device connected to the same local network with HTML4-capable browser or over the Internet if the network is correctly configured, with integrated real-time clock, with synchronization of date and time over KNX EIB or Ethernet, with cyclic transmission of date and time over KNX EIB, with one wide-range power supply unit for AC 110...230V, 50...60 Hz, with connection of the power supply via screw-type terminals for 2.5 mm <sup>2</sup> , with Ethernet connection over RJ45 socket, with integrated transmitter/receiver for KNX RF (868 MHz), for flush-mounting. The Touch Manager wave has to be installed in either a flush-mounting junction box from Kaiser, Item No. 1097-92 or in a cavity wall junction box from Kaiser, Item No. 9197-91. The junction box must be ordered separately ( <a href="http://www.kaiser-elektro.de">http://www.kaiser-elektro.de</a> ).					
	<b>UP 580 Touch Manager wave</b> • with touch-sensitive 5.7" display, monochrome, • with communication over Ethernet and KNX RF, • silver	<b>5WG3 580-2AB71</b>	1	030	1.500	
	<b>UP 581 Touch Manager wave</b> • with touch-sensitive 5.7" color display, • with communication over Ethernet and KNX RF • silver	<b>5WG3 581-2AB71</b>	1	030	1.500	
	<b>UP 582 Touch Manager wave</b> • with touch-sensitive 5.7" display, monochrome, • with communication over Ethernet and KNX RF and KNX EIB, • with integrated bus coupling unit and bus connection via bus terminal, • silver	<b>5WG3 582-2AB71</b>	1	030	1.500	
	<b>UP 583 Touch Manager wave</b> • with touch-sensitive 5.7" color display, • with communication over Ethernet and KNX RF and KNX EIB, • with integrated bus coupling unit and bus connection via bus terminal, • silver	<b>5WG3 583-2AB71</b>	1	030	1.500	

Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)	kg		
	<b>S 425 radio hand-held transmitters wave</b> with 4 pre-selection pushbuttons and 4 pushbutton pairs for wireless operation of 16 different room functions, with a separate pushbutton pair for a central function (e.g. central on/off), with configurable function per pushbutton pair: switch On/Off, switch On/Off and dim, solar protection control, save and recall of scenes, with radio transmitter 868 MHz, including batteries.				
	<b>S 425 radio hand-held transmitters wave</b> black	<b>5WG3 425-7AB21</b>	1	030	0.124
	<b>S 425 radio hand-held transmitters wave</b> silver	<b>5WG3 425-7AB71</b>	1	030	0.125

# wave Output Devices

## Binary output devices

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<p><b>Switch inserts sys</b> for switching incandescent lamps, HV and LV halogen lamps with electronic or conventional transformers, rated operational voltage 230 V AC, with 2-wire connection method, with short-circuit protection through miniature fuse, with spare fuse, with secondary input for additional operation over conventional pushbuttons, with 10-pole socket clipping on a push button wave UP 210 for local and remote operation over KNX radio, for installation in a mounting box (60 mm in diameter, 40 mm deep) by means of screw or claw fixing. The pushbutton wave UP 210 with radio communication and the respective frame must be ordered separately. Dimensions (HxWxD): 71 x 71 x 32 mm</p> <ul style="list-style-type: none"> <li>• rating 25 ... 250 VA</li> <li>• rating 15 ... 500 VA (with toroidal transformers 15 ... 250 VA)</li> </ul>	<b>5TC1 232</b> <b>5TC1 233</b>	1 1	024 024	0.100 0.110	
	<p><b>UP 560 transmitter actuator 230 V wave</b> for wireless operation of up to 2 different room functions and for controlling actuators over radio, <b>with 10-pole plug-in connector for clipping on an instabus pushbutton, single or double as user interface</b>, with adjustable function switching, switching and dimming, shutter/blind control and scene control, with distinction between short and long button press for control of dimming or shutter/blind, with scene save and recall of up to four scenes, <b>with integrated switch actuator with relay contact, rated for 230 V AC, 6 A (resistive load)</b>, with setting option, whether load should be permanently switched on or off (normal mode) or if the actuator should operate in time switch mode with an adjustable On period of 1, 5 or 15 minutes, with KNX radio transmitter/receiver for 868 MHz, electronics powered over 230 V AC, with commissioning over six DIP switches located on the front panel with no further resources required, for installation in a mounting box (60 mm in diameter, 40 mm deep) with screw or claw fixing. The <i>instabus</i> pushbutton and the respective frame must be ordered separately. Dimensions (HxWxD): 71 x 71 x 32 mm</p>	<b>5WG3 560-2AB01</b>	1	030	0.074	

## Outlet switches

### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<p><b>S 564 outlet switch wave</b> with outlet and integrated switch actuator, with relay contact, <b>rated for 230 V AC, 16 A (resistive load)</b>, with KNX radio transmitter/receiver for 868 MHz for remote control of the switch actuator, with pushbutton for local operation and commissioning without additional equipment, with LED for display of switching state, for insertion in a outlet, electronics powered over 230 V AC via the outlet. Dimensions (HxWxD): 128 x 72 x 74 mm</p> <ul style="list-style-type: none"> <li>• titanium white</li> </ul>	<b>5WG3 564-7AB11</b>	1	030	0.120	

Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
 <p><b>AP 261 binary inputs wave with battery</b>  for detecting the state of an external contact connected to the sensor and transmission of the state as on/off information to an actuator with radio communication or Touch Manager wave, with additional reed contact integrated in the device, activated through the magnet included in delivery, and electrically connected in series to the external contact, with 4 plug-type terminals for wire cross-sections of 0,14 to 0,5 mm<sup>2</sup> (solid or finely stranded) for connection of the external contact and for setting through a wire jumper, whether only the internal or only the external or both contacts are to be monitored, with KNX radio transmitter for 868 MHz, electronics powered over a lithium battery (1/2 AA 3.6V), including battery, with a battery service life of approx. 5 years, with signaling of battery status every 24 hours, with LED that flashes every 10 seconds to indicate the battery needs replacing, with commissioning over a pushbutton located on the front of the sensor with no further resources required, for surface mounting, comprising one mounting plate for screw or adhesive fastening, clip-on radio sensor with integrated reed contact and trigger magnet.  Dimensions (HxWxD):  Sensor 87 x 36 x 27 mm, magnet 40 x 10 x 10 mm  • titanium white</p>	5WG3 261-3AB11	1	030	0.096	

# wave

## Devices for Special Applications

### Lighting

#### Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>Universal dimmer inserts sys</b> for switching and dimming of incandescent lamps, HV and LV halogen lamps with electronic or conventional transformers, rated operational voltage 230 V AC, rated <b>operational capacity 50 to 420 VA for incandescent lamp load and LV halogen lamps with conventional transformer and 70 to 420 VA for LV halogen lamps with electronic transformers</b> , with 2-wire connection method, with automatic load detection, with lamp-friendly soft start, with storing and activation at a specified brightness value, with electronic short circuit and over temperature protection, with 10-pole socket for clipping on a push button wave UP 210 for local and remote operation over KNX radio, with secondary input for additional operation over conventional pushbuttons, for installation in a mounting box (60 mm in diameter, 40 mm deep) with screw or claw fixing. The pushbutton wave UP 210 and the respective frame must be ordered separately.. Dimensions (HxWxD): 71 x 71 x 32 mm	<b>5TC1 230</b>	1	024	0.089

Selection and ordering data

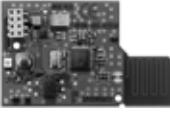
		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>Shutter control inserts sys</b> for control of a solar protection drive with AC motor for 230 V AC and electromechanical limit switches, with electrically interlocked relays to reverse the direction of rotation, <b>with relay contacts rated for 230 V AC, 1 motor with max. 1000 VA, with a minimum switchover time of 1 second</b> , with secondary input for additional operation over conventional up/down pushbuttons, with safety function "wind alarm", which can be implemented through the secondary input with 10-pole socket for clipping on a push button wave shutter UP 211 for local and remote operation over KNX radio, for installation in a mounting box (60 mm in diameter, 40 mm deep) with screw or claw fixing. The pushbutton wave shutter UP 211 and the respective frame must be ordered separately. Dimensions (HxWxD): 71 x 71 x 32 mm	5TC1 231		1	024	0.112
	<b>AP 260 door/window contacts wave with battery</b> for detecting the state (closed/open) of a door or window over the reed contact integrated in the device, with actuation of the reed contact through the supplied magnet for attachment to the moving part of the door or window, with connection for an external floating contact, with transmission of the switching state to a shutter insert sys with clipped on push button wave shutter or a Touch Manager wave, with 4 plug-type terminals for wire cross-sections of 0,14 to 0,5 mm <sup>2</sup> (solid or finely stranded) for connection of the external contact and for setting through a wire jumper, whether only the internal or only the external or both contacts are to be monitored, with KNX radio transmitter for 868 MHz, electronics powered over a lithium battery (1/2 AA 3.6V), including battery, with a battery service life of approx. 5 years, with signaling of battery status every 24 hours, with LED that flashes every 10 seconds to indicate the battery needs replacing, with commissioning over a pushbutton located on the front of the sensor with no further resources required, for surface mounting, comprising one mounting plate for screw or adhesive fastening, clip-on radio sensor with integrated reed contact and trigger magnet. Dimensions (HxWxD): Sensor 87 x 36 x 27 mm, magnet 40 x 10 x 10 mm • titanium white • brown	5WG3 260-3AB11 5WG3 260-3AB81	1 1	030 030	0.096 0.096	

# wave

## Devices for Special Applications

### Safety

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>DELTA reflex smoke detectors battery</b> for early detection of fires in buildings, with optical method of measuring for smoke detection, with VdS approval, with integrated acoustic alarm signal generator, with alarm / acknowledge pushbutton and integrated LED for display of normal mode, smoke alarm and weak battery, with a base for surface mounting and a screw-on sensor head, with interface and clamp-type terminals for networking up to 40 detectors over a 2-wire cable with an overall length of up to 400 m, with module slot for insertion of a relay module or a radio module, electronics powered by three Mignon batteries (AA 1.5 V), with a battery service life of 5 years, including batteries. Dimensions in mm: Ø 120, height 44 • titanium white • aluminum metallic • tobacco	<b>5TC1 290</b> <b>5TC1 293</b> <b>5TC1 294</b>	1 1 1	024 024 024	0.352 0.352 0.352	
	<b>Smoke detector module relay</b> Relay module for insertion in the DELTA reflex smoke detector battery, for connection of external alarm sensors such as horns, sirens, signal generators, with potential-free changeover contact, with switching voltage 30 V DC/42 V AC, with switching current up to 1 A DC/0.5 A AC, with terminals for cables with 0.4 mm to 0.8 mm diameter, powered over the smoke detector. For insertion in the DELTA reflex smoke detector titanium white (5TC1 290), aluminum metallic (5TC1 293), tobacco (5TC1 294). Dimensions (HxWxD): 43 x 38 x 15 mm	<b>5TC1 291</b>	1	024	0.045	
	<b>M 255 Smoke detector module wave uni</b> Radio module with KNX radio transmitter for 868 MHz, for insertion in the DELTA reflex smoke detector battery, with alarm transmission over radio when a smoke alarm is triggered at the smoke detector, with transmission of the battery status of the smoke detector over radio, with commissioning over a pushbutton with no further resources required, powered over the smoke detector. For insertion in the DELTA reflex smoke detector titanium white (5TC1 290), aluminum metallic (5TC1 293), tobacco (5TC1 294). Dimensions (HxWxD): 63 x 38 x 15 mm	<b>5WG3 255-8AB01</b>	1	030	0.042	

Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit	
		1 unit	Unit(s)			kg	
<b>DELTA i-system</b>		<b>UP 140 coupler wave / instabus</b> for coupling GAMMA wave with GAMMA <i>instabus</i> , with coupling of up to 50 GAMMA wave sensor channels with GAMMA <i>instabus</i> actor channels or GAMMA <i>instabus</i> sensor channels with GAMMA wave actor channels, with pushbutton rocker single, with intermediate position and vertical operation, parameterizable with ETS3, with function switching, switching and dimming, shutter control and scene control, with distinction between short and long button press for control of dimming or shutter/blind, with scene save and recall of up to two scenes, with 1 LED for display of telegram transmission, with KNX radio transmitter/receiver for 868 MHz, with 10-pole connector for clipping onto a bus coupling unit UP 114 version BCU 2.1 or higher. The UP 114 bus coupling unit and the respective frame in the designs DELTA line, DELTA vita or DELTA miro must be ordered separately. Dimensions (HxWxD): 55 x 55 x 13 mm • titanium white • carbon metallic • aluminum metallic		<b>5WG3 140-2HB11</b> <b>5WG3 140-2HB21</b> <b>5WG3 140-2HB31</b>	1 1 1	030 030 030	0.030 0.030 0.030
<b>DELTA profil</b>		<b>UP 140 coupler wave / instabus</b> for coupling GAMMA wave with GAMMA <i>instabus</i> , with coupling of up to 50 GAMMA wave sensor channels with GAMMA <i>instabus</i> actor channels or GAMMA <i>instabus</i> sensor channels with GAMMA wave actor channels, with pushbutton rocker single, with intermediate position and vertical operation, parameterizable with ETS3, with function switching, switching and dimming, shutter control and scene control, with distinction between short and long button press for control of dimming or shutter/blind, with scene save and recall of up to two scenes, with 1 LED for display of telegram transmission, with KNX radio transmitter/receiver for 868 MHz, with 10-pole connector for clipping onto a bus coupling unit UP 114 version BCU 2.1 or higher. The UP 114 bus coupling unit and the respective cut out frame must be ordered separately. Dimensions (HxWxD): 65 x 65 x 14 mm • pearl gray • titanium white • anthracite • silver		<b>5WG3 140-2AB01</b> <b>5WG3 140-2AB11</b> <b>5WG3 140-2AB21</b> <b>5WG3 140-2AB71</b>	1 1 1 1	030 030 030 030	0.035 0.035 0.035 0.035
<b>DELTA style</b>		<b>UP 140 coupler wave / instabus</b> for coupling GAMMA wave with GAMMA <i>instabus</i> , with coupling of up to 50 GAMMA wave sensor channels with GAMMA <i>instabus</i> actor channels or GAMMA <i>instabus</i> sensor channels with GAMMA wave actor channels, with pushbutton rocker single, with intermediate position and vertical operation, parameterizable with ETS3, with function switching, switching and dimming, shutter control and scene control, with distinction between short and long button press for control of dimming or shutter/blind, with scene save and recall of up to two scenes, with 1 LED for display of telegram transmission, with KNX radio transmitter/receiver for 868 MHz, with 10-pole connector for clipping onto a bus coupling unit UP 114 version BCU 2.1 or higher. The UP 114 bus coupling unit and the respective frame must be ordered separately. Dimensions (HxWxD): 68 x 68 x 16.5 mm • titanium white • basalt black		<b>5WG3 140-2GB11</b> <b>5WG3 140-2GB21</b>	1 1	030 030	0.036 0.036

# wave

## System Products

### Transmitters, receivers

#### Selection and ordering data

		Order No.	Price	PS*/ P. unit	PG	Weight per unit
		1 unit	Unit(s)			kg
	<b>UP 110 transmitter battery wave</b> for wireless operation of up to 2 different room functions and for controlling actuators over radio, <b>with 10-pole plug-in connector for clipping on an instabus push button single or double as user interface</b> , with adjustable function: switching, switching and dimming, shutter/blind control and scene control, with distinction between short and long button press for control of dimming or shutter/blind, with scene save and recall of up to four scenes, with KNX radio transmitter for 868 MHz, electronics powered over a lithium battery (1/2 AA 3.6V), including battery, with commissioning over four DIP switches located on the front panel with no further resources required, for installation in a mounting box (60 mm in diameter, 40 mm deep) with screw or claw fixing. The <i>instabus</i> pushbutton and the respective frame, as well as surface-mounting enclosure (if required), must be ordered separately. Dimensions (HxWxD): 71 x 71 x 24 mm	<b>5WG3 110-2AB01</b>	1	030	0.050	
	<b>UP 110 transmitter 230 V wave</b> for wireless operation of up to 2 different room functions and for controlling actuators over radio, <b>with 10-pole plug-in connector for clipping on an instabus push button single or double as user interface</b> , with adjustable function: switching, switching and dimming, shutter/blind control and scene control, with distinction between short and long button press for control of dimming or shutter/blind, with scene save and recall of up to four scenes, with KNX radio transmitter/receiver for 868 MHz, electronics powered over 230 V AC, with commissioning over four DIP switches located on the front panel with no further resources required, for installation in a mounting box (60 mm in diameter, 40 mm deep) with screw or claw fixing. The <i>instabus</i> pushbutton and the respective frame must be ordered separately. Dimensions (HxWxD): 71 x 71 x 32 mm	<b>5WG3 110-2AB11</b>	1	030	0.068	
	<b>UP 560 transmitter actuator 230 V wave</b> for wireless operation of up to 2 different room functions and for controlling actuators over radio, <b>with 10-pole plug-in connector for clipping on an instabus pushbutton, single or double as user interface</b> , with adjustable function switching, switching and dimming, shutter/blind control and scene control, with distinction between short and long button press for control of dimming or shutter/blind, with scene save and recall of up to four scenes, <b>with integrated switch actuator with relay contact, rated for 230 V AC, 6 A (resistive load)</b> , with setting option, whether load should be permanently switched on or off (normal mode) or if the actuator should operate in time switch mode with an adjustable On period of 1, 5 or 15 minutes, with KNX radio transmitter/receiver for 868 MHz, electronics powered over 230 V AC, with commissioning over six DIP switches located on the front panel with no further resources required, for installation in a mounting box (60 mm in diameter, 40 mm deep) with screw or claw fixing. The <i>instabus</i> pushbutton and the respective frame must be ordered separately. Dimensions (HxWxD): 71 x 71 x 32 mm	<b>5WG3 560-2AB01</b>	1	030	0.074	

Selection and ordering data

	Order No.	Price	PS*/ P. unit	PG	Weight per unit
	1 unit	Unit(s)			kg
	<b>UP 141 Repeater wave</b> for improving radio communication through the single repetition of each correctly received radio telegram, if radio telegrams are so damped by several walls, ceilings or fixture that an assigned receiver can no longer properly receive the radio telegrams, works without teach-in to other radio devices, with KNX radio transmitter/receiver for 868 MHz, electronics powered over 230 V AC, for installation in a mounting box (60 mm in diameter, 40 mm deep) with screw or claw fixing, with central threaded hole for screwing onto a blanking cover plate. The blanking cover plate and the respective frame must be ordered separately. Dimensions (HxWxD): 71 x 71 x 32 mm	5WG3 141-2AB01	1	030	0.065



# 13

## Appendix

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# Appendix

## Ordering notes

### Ag und Cu surcharges

All products containing silver/copper shall be subject to surcharges if the limit value is exceeded. The level of the surcharges is calculated as follows:

NE metal surcharges =  
("quote for metal"<sup>1)</sup> – "limit value") x the metal weight contained  
in the respective product

The limit value is as follows

- for copper (Cu) 150,- €/100 kg
- for silver (Ag) 150,- €/001 kg.

1) for Cu: Previous month's average of the upper DEL quotation  
+ 1% handling fee

for Ag: "German quotation processed";  
both to be found in the EIS of GPL.

### Registered trademarks

All product designations may be registered trademarks or product names of Siemens AG or other supplying companies. Third parties using these trademarks or product names for their own purposes might infringe upon the rights of the trademark owners.

### Ordering special designs

When ordering products that differ from the standard designs, the Order No. in the catalog must be supplemented by a **"-Z"**; the required characteristics must then be specified either by means of brief alphanumeric data or in plain text.

### Ordering very small quantities

When ordering very small quantities, the cost of order processing often exceeds the order value. We therefore recommend that you combine several small orders. Where this is not possible, please note that we are obliged to make a small processing charge: for orders with a net goods value of less than 100,- € we charge a 15,- € supplement to cover our order processing and invoicing costs.

### Internet

You can also visit our Automation & Drives site on the Internet at the following addresses:

- for the sector Automation and Drives:  
<http://www.siemens.com/automation>
- for Installation Technology:  
<http://www.siemens.com/e-installation>
- for the A&D Mall:  
<http://www.siemens.com/automation/mall>

### Notes

All technical specifications, dimensions and weights are subject to change without notice unless otherwise specified on the pages of this catalog.

All dimensions are specified in mm, the illustrations are for reference purposes only.

The technical data are for general information. The instruction manuals and the instructions on the products must be observed during assembly, operation and maintenance.

### Siemens contacts in the WWW

The screenshot shows the Siemens website's contact search interface. The top navigation bar includes 'Find Home | Personalization | About us | English | Log in'. Below it, a search bar has 'Contact by country' selected. The main content area is titled 'Germany' and features a 'Link Box' button. A message asks if the user is looking for a local contact to help with questions on Automation and Drives products. It prompts the user to select a city and a contact type (Sales). A 'Next >' button is visible at the bottom.

The screenshot shows the Siemens website's contact search interface for a specific sector. The top navigation bar and search bar are identical to the previous screenshot. The main content area is titled 'Please select a sector' and features a 'Link Box' button. It asks for the user's question focus and lists various Siemens sectors. A 'Next >' button is visible at the bottom.

The screenshot shows the Siemens website's contact search interface for a specific product group. The top navigation bar and search bar are identical to the previous screenshots. The main content area is titled 'Please select a Siemens product group' and features a 'Link Box' button. It asks for the user's question focus and lists various Siemens product categories. A 'Next >' button is visible at the bottom.

At:

<http://www.siemens.com/automation/partner>

you can find details of Siemens contact partners worldwide responsible for particular technologies.

You can obtain in most cases a contact partner for

- Technical Support,
- Spare parts/repairs,
- Service,
- Training,
- Sales or
- Consultation/engineering.

You start by selecting a

- Country,
- Product or
- Sector.

By further specifying the remaining criteria you will find exactly the right contact partner with his/her respective expertise.

# Appendix

## A&D-Online Services

### Information and ordering on the Internet and on CD-ROM

#### A&D in the WWW



A detailed knowledge of the range of products and services available is essential when planning and configuring automation systems. It goes without saying that this information must always be fully up-to-date.

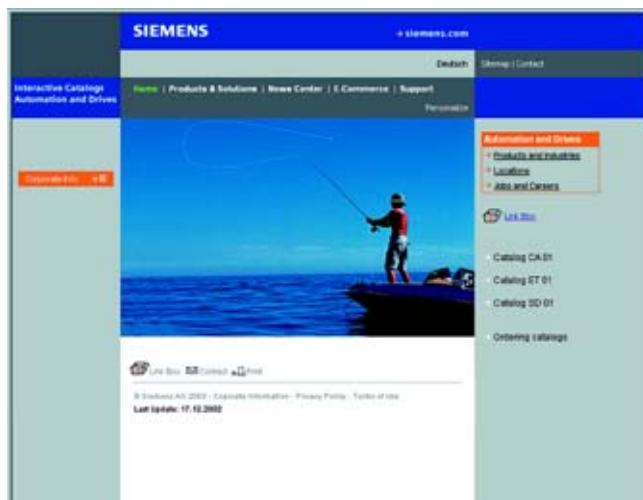
The Siemens Automation and Drives Group (A&D) has therefore built up a comprehensive range of information in the World Wide Web, which offers quick and easy access to all data required.

Under the address

<http://www.siemens.com/automation>

you will find everything you need to know about products, systems and services.

#### Product Selection Using the Offline Mall of Automation and Drives



Detailed information together with convenient interactive functions: The interactive catalog CA 01 covers more than 80,000 products and thus provides a full summary of the Siemens Automation and Drives product base.

Here you will find everything that you need to solve tasks in the fields of automation, switchgear, installation and drives. All information is linked into a user interface which is easy to work with and intuitive.

After selecting the product of your choice you can order at the press of a button, by fax or by online link.

Information on the interactive catalog CA 01 can be found on the Internet under

<http://www.siemens.com/automation/ca01>

or on CD-ROM or DVD.

#### Easy Shopping with the A&D Mall



The A&D Mall is the virtual department store of Siemens AG in the Internet. Here you have access to a huge range of products presented in electronic catalogs in an informative and attractive way.

Data transfer via EDIFACT allows the whole procedure from selection through ordering to tracking of the order to be carried out online via the Internet.

Numerous functions are available to support you.

For example, powerful search functions make it easy to find the required products, which can be immediately checked for availability. Customer-specific discounts and preparation of quotes can be carried out online as well as order tracking and tracing.

Please visit the A&D Mall on the Internet under:

<http://www.siemens.com/automation/mall>

### Our Services for Every Phase of Your Project

#### General



In the face of harsh competition you need optimum conditions to keep ahead all the time:

A strong starting position. A sophisticated strategy and team for the necessary support - in every phase.

Service & Support from Siemens provides this support with a complete range of different services for automation and drives.

In every phase: from planning and startup to maintenance and upgrading.

Our specialists know when and where to act to keep the productivity and cost-effectiveness of your system running in top form.

#### Online support



The comprehensive information system available round the clock via Internet ranging from Product Support and Service & Support services to Support Tools in the Shop.

<http://www.siemens.com/automation/service&support>

#### Technical support



Competent consulting in technical questions covering a wide range of customer-oriented services for all our products and systems.

Tel.: +49 (0)911 895 5900<sup>1)</sup>  
 Fax: +49 (0)911 895 5902<sup>1)</sup>  
 E-Mail: [technical-assistance@siemens.com](mailto:technical-assistance@siemens.com)

<http://www.support.automation.siemens.com>

#### Technical consulting



Support in the planning and designing of your project from detailed actual-state analysis, target definition and consulting on product and system questions right to the creation of the automation solution.<sup>1)</sup>

1) For country-specific telephone numbers go to our Internet site at:  
<http://www.siemens.com/automation/service&support>

#### Configuration and software engineering



Support in configuring and developing with customer-oriented services from actual configuration to implementation of the automation project.<sup>1)</sup>

#### Service on site



With Service On Site we offer services for startup and maintenance, essential for ensuring system availability.  
 In Germany Tel.: +49 (0)180 50 50 444<sup>1)</sup>

#### Repairs and spare parts



In the operating phase of a machine or automation system we provide a comprehensive repair and spare parts service ensuring the highest degree of operating safety and reliability.  
 In Germany Tel.: +49 (0)180 50 50 448<sup>1)</sup>

#### Optimization and upgrading



To enhance productivity and save costs in your project we offer high-quality services in optimization and upgrading.<sup>1)</sup>

# Appendix

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<b>5TC1 231</b>	12/15		1	024	1
<b>5TC1 232</b>	12/12		1	024	1
<b>5TC1 233</b>	12/12		1	024	1
<b>5TC1 290</b>	12/16		1	024	1
<b>5TC1 291</b>	12/16		1	024	1
<b>5TC1 293</b>	12/16		1	024	1
<b>5TC1 294</b>	12/16		1	024	1
<b>5TC1 301</b>	12/5		1	024	1
<b>5TC1 302</b>	12/5		1	024	1
<b>5TC1 303</b>	12/5		1	024	1
<b>5TC1 310</b>	12/5		1	024	1
<b>5TC1 311</b>	12/5		1	024	1
<b>5TC1 312</b>	12/5		1	024	1
<b>5TC1 313</b>	12/5		1	024	1
<b>5TC1 314</b>	12/5		1	024	1
<b>5TC1 315</b>	12/5		1	024	1
<b>5TC1 316</b>	12/5		1	024	1
<b>5TC1 317</b>	12/6		1	024	1
<b>5TC1 318</b>	12/6		1	024	1
<b>5TC1 321</b>	12/5		1	024	1
<b>5TC1 322</b>	12/5		1	024	1
<b>5TC1 323</b>	12/5		1	024	1
<b>5TC1 324</b>	12/5		1	024	1
<b>5TC1 325</b>	12/5		1	024	1
<b>5TC1 328</b>	12/5		1	024	1
<b>5TC1 330</b>	12/9		1	024	1
<b>5TC1 361</b>	12/9		1	024	1
<b>5TC1 362</b>	12/9		1	024	1
<b>5TC1 363</b>	12/9		1	024	1
<b>5TC1 364</b>	12/9		1	024	1
<b>5TC1 365</b>	12/9		1	024	1
<b>5TC1 368</b>	12/9		1	024	1
<b>5TC1 370</b>	12/9		1	024	1
<b>5TG1 1</b>					
<b>5TG1 141</b>	1/14		1	021	1/10
<b>5TG1 142</b>	1/15		1	021	1/10
<b>5TG1 143</b>	1/16		1	021	1/10
<b>5TG1 144</b>	1/17		1	021	1/10
<b>5TG1 145</b>	1/18		1	021	1/5
<b>5TG1 151</b>	1/14		1	021	1/10
<b>5TG1 152</b>	1/15		1	021	1/10
<b>5TG1 153</b>	1/16		1	021	1/10
<b>5TG1 154</b>	1/17		1	021	1/10
<b>5TG1 155</b>	1/18		1	021	1/5
<b>5TG1 161</b>	1/14		1	021	1/10
<b>5TG1 162</b>	1/15		1	021	1/10
<b>5TG1 163</b>	1/16		1	021	1/10
<b>5TG1 164</b>	1/17		1	021	1/10
<b>5TG1 165</b>	1/18		1	021	1/5
<b>5TG1 171</b>	1/14		1	021	1/10
<b>5TG1 172</b>	1/15		1	021	1/10
<b>5TG1 173</b>	1/16		1	021	1/10
<b>5TG1 174</b>	1/17		1	021	1/10
<b>5TG1 175</b>	1/18		1	021	1/5
<b>5TG1 177</b>	1/19		1	021	1/10
<b>5TG1 178</b>	1/19		1	021	1/10
<b>5TG1 180</b>	1/19		1	021	1/10
<b>5TG1 181</b>	1/19		1	021	1/10
<b>5TG1 182</b>	1/19		1	021	1/10
<b>5TG1 183</b>	1/19		1	021	1/10
<b>5TG1 184</b>	1/19		1	021	1/10

\* You can order this quantity or a multiple thereof.

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<b>5TG1 185</b>					
<b>5TG1 186</b>	1/19		1	021	1/10
<b>5TG1 187</b>	1/19		1	021	1/10
<b>5TG1 188-1</b>	1/19		1	021	1/10
<b>5TG1 2</b>					
<b>5TG1 201</b>	1/14		1	021	1
<b>5TG1 202</b>	1/15		1	021	1
<b>5TG1 203</b>	1/16		1	021	1
<b>5TG1 204</b>	1/17		1	021	1
<b>5TG1 220</b>	12/9		1	021	1/10
<b>5TG1 250</b>	12/9		1	021	1/10
<b>5TG1 3</b>					
<b>5TG1 321</b>	1/14		1	021	1/10
<b>5TG1 322</b>	1/15		1	021	1/10
<b>5TG1 323</b>	1/16		1	021	1/10
<b>5TG1 324</b>	1/17		1	021	1/10
<b>5TG1 325</b>	1/18		1	021	1/5
<b>5TG1 328</b>	1/19		1	021	1/10
<b>5TG1 330</b>	12/9		1	021	1/10
<b>5TG1 361</b>	1/14		1	021	1/10
<b>5TG1 362</b>	1/15		1	021	1/10
<b>5TG1 363</b>	1/16		1	021	1/10
<b>5TG1 364</b>	1/17		1	021	1/10
<b>5TG1 365</b>	1/18		1	021	1/5
<b>5TG1 368</b>	1/19		1	021	1/10
<b>5TG1 370</b>	12/9		1	021	1/10
<b>5TG1 5</b>					
<b>5TG1 501</b>	1/14		1	021	1/5
<b>5TG1 502</b>	1/15		1	021	1/5
<b>5TG1 503</b>	1/16		1	021	1/5
<b>5TG1 504</b>	1/17		1	021	1/5
<b>5TG1 505</b>	1/18		1	021	1/5
<b>5TG1 510</b>	12/9		1	021	1/5
<b>5TG1 511</b>	1/14		1	021	1/5
<b>5TG1 512</b>	1/15		1	021	1/5
<b>5TG1 513</b>	1/16		1	021	1/5
<b>5TG1 514</b>	1/17		1	021	1/5
<b>5TG1 515</b>	1/18		1	021	1/5
<b>5TG1 7</b>					
<b>5TG1 761</b>	1/14		1	021	1/10
<b>5TG1 763</b>	1/15		1	021	1/10
<b>5TG1 764</b>	1/16		1	021	1/10
<b>5TG1 770</b>	12/9		1	021	1/10
<b>5TG1 8</b>					
<b>5TG1 801</b>	1/14		1	021	1/10
<b>5TG1 802</b>	1/15		1	021	1/10
<b>5TG1 803</b>	1/15		1	021	1/10
<b>5TG1 804</b>	1/16		1	021	1/10
<b>5TG1 810</b>	12/9		1	021	1/10
<b>5TG1 825</b>	1/13		1	021	1/5
<b>5TG1 826</b>	1/13		1	021	1/5
<b>5TG1 831</b>	1/14		1	021	1/10
<b>5TG1 832</b>	1/15		1	021	1/10
<b>5TG1 833</b>	1/15		1	021	1/10
<b>5TG1 834</b>	1/16		1	021	1/10
<b>5TG1 840</b>	12/9		1	021	1/10
<b>5TG1 861</b>	1/14		1	021	1/10
<b>5TG1 862</b>	1/15		1	021	1/10
<b>5TG1 863</b>	1/15		1	021	1/10
<b>5TG1 864</b>	1/16		1	021	1/10
<b>5TG1 870</b>	12/9		1	021	1/10

# Appendix

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Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
<b>5TG2 5</b>					
5TG2 551-0	1/14		1	021	1/10
5TG2 551-3	1/14		1	021	1/10
5TG2 551-6	1/14		1	021	1/10
5TG2 552-0	1/15		1	021	1/10
5TG2 552-3	1/15		1	021	1/10
5TG2 552-6	1/15		1	021	1/10
5TG2 553-0	1/16		1	021	1/10
5TG2 553-3	1/16		1	021	1/10
5TG2 553-6	1/16		1	021	1/10
5TG2 554-0	1/17		1	021	1/10
5TG2 554-3	1/17		1	021	1/10
5TG2 554-6	1/17		1	021	1/10
5TG2 555-0	1/18		1	021	1/5
5TG2 555-3	1/18		1	021	1/5
5TG2 555-6	1/18		1	021	1/5
5TG2 558	12/9		1	021	1/10
5TG2 581-0	1/14		1	021	1/10
5TG2 582-0	1/15		1	021	1/10
5TG2 583-0	1/16		1	021	1/10
5TG2 584-0	1/17		1	021	1/10
5TG2 585-0	1/18		1	021	1/5
<b>5TG2 8</b>					
5TG2 861	1/13		1	021	1/5
5TG2 862	1/13		1	021	1/3
5TG2 863	1/13		1	021	1/2
<b>5TG2 9</b>					
5TG2 901	1/13		1	021	1/5
5TG2 901	1/13		1	021	1/5
5TG2 902	1/13		1	021	1/3
5TG2 902	1/13		1	021	1/3
5TG2 903	1/13		1	021	1/2
5TG2 903	1/13		1	021	1/2
<b>5WG1 11</b>					
5WG1 110-2AB03	9/2		1	030	1
5WG1 110-2AB11	9/2		1	030	1
5WG1 114-2AB02	9/2		1	030	1
5WG1 115-3AB01	1/5		1	030	1
5WG1 115-3AB11	1/5		1	030	1
5WG1 115-3AB21	1/5		1	030	1
5WG1 115-3AB31	1/5		1	030	1
5WG1 116-2AB01	1/7		1	030	1
5WG1 116-2AB01	9/5		1	030	1
5WG1 116-2AB11	1/7		1	030	1
5WG1 116-2AB11	9/5		1	030	1
5WG1 116-2AB21	1/7		1	030	1
5WG1 116-2AB21	9/5		1	030	1
5WG1 116-2AB31	1/7		1	030	1
5WG1 116-2AB31	9/5		1	030	1
<b>5WG1 12</b>					
5WG1 120-1AB01	9/6		1	030	1
5WG1 120-1AB02	9/6		1	030	1
5WG1 123-1CB01	9/6		1	030	1
5WG1 125-1AB01	9/6		1	030	1
5WG1 125-1AB11	9/6		1	030	1
5WG1 125-1AB21	9/6		1	030	1
<b>5WG1 14</b>					
5WG1 140-1AB03	9/7		1	030	1
5WG1 140-1AB13	9/7		1	030	1
5WG1 140-7AU02	6/10		on requ.		
5WG1 140-7AU12	6/10		1	030	1

Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
5WG1 140-7AU22	6/10		1	030	1
5WG1 141-4AB01	6/7		1	030	1
5WG1 142-2AB01	6/2		1	030	1
5WG1 142-2EB01	6/3		1	030	1
5WG1 146-1AB01	6/8		1	030	1
5WG1 146-1AB01	9/7		1	030	1
5WG1 146-1AB01	9/8		1	030	1
5WG1 146-2AB01	6/2		1	030	1
5WG1 146-2AB11	6/2		1	030	1
5WG1 146-2AB21	6/2		1	030	1
5WG1 146-2AB71	6/2		1	030	1
5WG1 146-2EB01	6/3		1	030	1
5WG1 146-2EB11	6/3		1	030	1
5WG1 146-2EB21	6/3		1	030	1
5WG1 146-2EB71	6/3		1	030	1
5WG1 148-1AB02	6/2		1	030	1
5WG1 148-1AB04	6/2		1	030	1
5WG1 148-1AB11	6/3		1	030	1
5WG1 148-1AB21	6/8		1	030	1
5WG1 148-1AB21	9/8		1	030	1
<b>5WG1 19</b>					
5WG1 190-7AU01	6/10		1	030	1
5WG1 190-8AB01	10/3		1	030	5
5WG1 190-8AB02	10/3		1	030	5
5WG1 190-8AB03	10/3		1	030	5
5WG1 190-8AB04	10/3		1	030	5
5WG1 190-8AB11	10/3		1	030	5
5WG1 190-8AB12	10/3		1	030	5
5WG1 190-8AB13	10/3		1	030	5
5WG1 190-8AB14	10/3		1	030	5
5WG1 190-8AB21	10/3		1	030	5
5WG1 190-8AB22	10/3		1	030	5
5WG1 190-8AB23	10/3		1	030	5
5WG1 190-8AB24	10/3		1	030	5
5WG1 190-8AB31	10/3		1	030	5
5WG1 190-8AB32	10/3		1	030	5
5WG1 190-8AB33	10/3		1	030	5
5WG1 190-8AB34	10/3		1	030	5
5WG1 190-8AB41	10/3		1	030	5
5WG1 190-8AB42	10/3		1	030	5
5WG1 190-8AB43	10/3		1	030	5
5WG1 190-8AB44	10/3		1	030	5
5WG1 190-8AB51	10/3		1	030	5
5WG1 190-8AB52	10/3		1	030	5
5WG1 190-8AB53	10/3		1	030	5
5WG1 190-8AB54	10/3		1	030	5
5WG1 190-8AD01	10/4		1	030	1
5WG1 192-8AA01	10/2		1	030	5
5WG1 193-8AB01	10/2		1	030	25
5WG1 195-3AB01	1/22		1 m	030	1 m/2 m
5WG1 195-8AB01	1/22		1	030	1
5WG1 195-8AB11	1/22		1	030	1
5WG1 195-8AB21	1/22		1	030	1
5WG1 195-8AB31	1/22		1	030	1
5WG1 195-8AB41	1/22		1	030	1
5WG1 195-8AB51	1/22		1	030	1
5WG1 196-2AB01	9/5		1	030	10
5WG1 197-8AB01	1/22		1 m	030	1 m/2 m

\* You can order this quantity or a multiple thereof.

## Order number index

Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
5WG1 198-8AB01	1/22		1	030	1
<b>5WG1 22</b>					
5WG1 220-2AB02	3/5		1	030	1
5WG1 220-2AB03	3/5		1	030	1
5WG1 220-2AB13	3/5		1	030	1
5WG1 220-2CB02	3/5		1	030	1
5WG1 221-2AB01	1/2		1	030	1
5WG1 221-2AB11	1/2		1	030	1
5WG1 221-2AB21	1/2		1	030	1
5WG1 221-2AB31	1/2		1	030	1
5WG1 221-2EB01	1/2		1	030	1
5WG1 221-2EB11	1/2		1	030	1
5WG1 221-2EB21	1/2		1	030	1
5WG1 221-2EB31	1/2		1	030	1
5WG1 222-2AB01	1/2		1	030	1
5WG1 222-2AB11	1/2		1	030	1
5WG1 222-2AB21	1/2		1	030	1
5WG1 222-2AB31	1/2		1	030	1
5WG1 222-2EB01	1/2		1	030	1
5WG1 222-2EB11	1/2		1	030	1
5WG1 222-2EB21	1/2		1	030	1
5WG1 222-2EB31	1/2		1	030	1
5WG1 223-2AB01	1/2		1	030	1
5WG1 223-2AB11	1/2		1	030	1
5WG1 223-2AB21	1/2		1	030	1
5WG1 223-2AB31	1/2		1	030	1
<b>5WG1 23</b>					
5WG1 230-2AB02	1/11		1	030	1
5WG1 230-2AB12	1/11		1	030	1
5WG1 230-2AB22	1/11		1	030	1
5WG1 230-2AB72	1/11		1	030	1
5WG1 230-2EB11	1/11		1	030	1
5WG1 230-2EB21	1/11		1	030	1
5WG1 231-2AB03	1/10		1	030	1
5WG1 231-2AB03	5/17		1	030	1
5WG1 231-2AB13	1/10		1	030	1
5WG1 231-2AB13	5/17		1	030	1
5WG1 231-2AB23	1/10		1	030	1
5WG1 231-2AB23	5/17		1	030	1
5WG1 231-2AB73	1/10		1	030	1
5WG1 231-2AB73	5/17		1	030	1
5WG1 231-2EB13	1/10		1	030	1
5WG1 231-2EB13	5/18		1	030	1
5WG1 231-2EB23	1/10		1	030	1
5WG1 231-2EB23	5/18		1	030	1
5WG1 233-2AB01	1/8		1	030	1
5WG1 233-2AB01	6/4		1	030	1
5WG1 233-2AB11	1/8		1	030	1
5WG1 233-2AB11	6/4		1	030	1
5WG1 233-2AB21	1/8		1	030	1
5WG1 233-2AB21	6/4		1	030	1
5WG1 233-2AB71	1/8		1	030	1
5WG1 233-2AB71	6/4		1	030	1
5WG1 234-2AB01	1/8		1	030	1
5WG1 234-2AB01	6/4		1	030	1
5WG1 234-2AB11	1/8		1	030	1
5WG1 234-2AB11	6/4		1	030	1
5WG1 234-2AB21	1/8		1	030	1
5WG1 234-2AB21	6/4		1	030	1
5WG1 234-2AB71	1/8		1	030	1
5WG1 234-2AB71	6/4		1	030	1
5WG1 234-2AB71	6/4		1	030	1
5WG1 234-2AB71	6/4		1	030	1
5WG1 234-2AB71	6/4		1	030	1
5WG1 234-2AB71	6/4		1	030	1
5WG1 234-2AB71	6/4		1	030	1

\* You can order this quantity or a multiple thereof.

Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
5WG1 235-2AB01	1/8		1	030	1
5WG1 235-2AB01	6/4		1	030	1
5WG1 235-2AB11	1/8		1	030	1
5WG1 235-2AB11	6/4		1	030	1
5WG1 235-2AB21	1/8		1	030	1
5WG1 235-2AB21	6/4		1	030	1
5WG1 235-2AB71	1/8		1	030	1
5WG1 235-2AB71	6/4		1	030	1
5WG1 237-2AB11	5/16		1	030	1
5WG1 237-2AB21	5/16		1	030	1
5WG1 237-2AB31	5/16		1	030	1
<b>5WG1 24</b>					
5WG1 241-2AB01	1/3		1	030	1
5WG1 241-2AB11	1/3		1	030	1
5WG1 241-2AB21	1/3		1	030	1
5WG1 241-2AB71	1/3		1	030	1
5WG1 242-2AB01	1/3		1	030	1
5WG1 242-2AB11	1/3		1	030	1
5WG1 242-2AB21	1/3		1	030	1
5WG1 242-2AB71	1/3		1	030	1
5WG1 243-2AB01	1/3		1	030	1
5WG1 243-2AB11	1/3		1	030	1
5WG1 243-2AB21	1/3		1	030	1
5WG1 243-2AB71	1/3		1	030	1
5WG1 244-2AB01	1/3		1	030	1
5WG1 244-2AB11	1/3		1	030	1
5WG1 244-2AB21	1/3		1	030	1
5WG1 244-2AB71	1/3		1	030	1
<b>5WG1 25</b>					
5WG1 250-8AB01	5/19		1	030	1
5WG1 252-2AB03	5/16		1	030	1
5WG1 252-2AB13	5/16		1	030	1
5WG1 252-2AB23	5/16		1	030	1
5WG1 252-2AB73	5/16		1	030	1
5WG1 252-2HV11	5/17		1	030	1
5WG1 252-4AB02	5/8		1	030	1
5WG1 252-4AB02	7/4		1	030	1
5WG1 253-2AB03	5/19		1	030	1
5WG1 253-4AB01	5/8		1	030	1
5WG1 253-4AB01	7/4		1	030	1
5WG1 254-2AB13	5/18		1	030	1
5WG1 254-2AB23	5/18		1	030	1
5WG1 254-3EY01	5/15		1	030	1
5WG1 254-3EY01	7/4		1	030	1
5WG1 254-3EY01	7/5		1	030	1
5WG1 254-3EY01	7/6		1	030	1
5WG1 254-4AB01	5/8		1	030	1
5WG1 254-4AB01	7/4		1	030	1
5WG1 255-2AB01	7/2		1	030	1
5WG1 255-2AB02	7/2		1	030	1
5WG1 255-2AB11	7/2		1	030	1
5WG1 255-2AB11	7/2		1	030	1
5WG1 255-2AB12	7/2		1	030	1

# Appendix

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Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
5WG1 255-2AB12	7/2		1	030	1
5WG1 255-2AB21	7/2		1	030	1
5WG1 255-2AB22	7/2		1	030	1
5WG1 255-2AB71	7/2		1	030	1
5WG1 255-2AB72	7/2		1	030	1
5WG1 255-4AB01	5/7		1	030	1
5WG1 255-4AB01	7/4		1	030	1
5WG1 255-4AB02	5/7		1	030	1
5WG1 255-4AB02	7/4		1	030	1
5WG1 256-2AB01	7/2		1	030	1
5WG1 256-2AB02	7/2		1	030	1
5WG1 257-2AB21	7/2		1	030	1
5WG1 257-2AB22	7/2		1	030	1
5WG1 257-3AB01	5/13		1	030	1
5WG1 257-3AB11	5/13		1	030	1
5WG1 258-1AB01	5/15		1	030	1
5WG1 258-1AB01	7/5		1	030	1
5WG1 258-2AB11	7/3		1	030	1
5WG1 258-2AB11	7/6		1	030	1
5WG1 258-2AB21	7/3		1	030	1
5WG1 258-2AB21	7/6		1	030	1
5WG1 258-2HB11	7/2		1	030	1
5WG1 258-2HB12	7/2		1	030	1
5WG1 258-2HB21	7/2		1	030	1
5WG1 258-2HB22	7/2		1	030	1
5WG1 258-2HB31	7/2		1	030	1
5WG1 258-2HB32	7/2		1	030	1
5WG1 258-3AB11	5/14		1	030	1
5WG1 258-3AB21	5/14		1	030	1
5WG1 258-3AB31	5/14		1	030	1
5WG1 258-3AB41	5/14		1	030	1
5WG1 258-3EB21	7/3		1	030	5
5WG1 258-3EB21	7/6		1	030	5
5WG1 258-7AB02	5/14		1	030	1
5WG1 258-7AB03	5/14	on requ.			
5WG1 258-7AB13	5/14	on requ.			
5WG1 258-8AB01	5/14		1	030	1
5WG1 258-8AB21	5/14		1	030	1
<b>5WG1 26</b>					
5WG1 260-1AB01	3/3		1	030	1
5WG1 261-1AB01	3/3		1	030	1
5WG1 261-1AB01	3/3		1	030	1
5WG1 261-1CB01	3/3		1	030	1
5WG1 262-4AB02	3/4		1	030	1
5WG1 263-1EB01	3/4		1	030	1
5WG1 263-1EB11	3/4		1	030	1
5WG1 266-1AB01	4/3		1	030	1
5WG1 266-1AB01	5/24		1	030	1
<b>5WG1 27</b>					
5WG1 272-2AB01	5/25		1	030	1
5WG1 272-2AB11	5/25		1	030	1
5WG1 272-2AB11	5/25		1	030	1
5WG1 272-2AB21	5/25		1	030	1
5WG1 272-2AB71	5/25		1	030	1
<b>5WG1 28</b>					
5WG1 281-8AB01	1/6		1	030	1
5WG1 282-8AB01	1/6		1	030	1
5WG1 283-8AB01	1/6		1	030	1
5WG1 284-2AB01	1/4		1	030	1
5WG1 284-2AB03	1/4		1	030	1
5WG1 284-2EB01	1/9		1	030	1

Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
5WG1 284-2EB01	6/5		1	030	1
5WG1 284-2EB03	1/9		1	030	1
5WG1 284-2EB03	6/5		1	030	1
5WG1 285-2AB01	1/4		1	030	1
5WG1 285-2AB11	1/4		1	030	1
5WG1 285-2AB21	1/4		1	030	1
5WG1 285-2AB81	1/4		1	030	1
5WG1 285-2EB01	1/9		1	030	1
5WG1 285-2EB01	6/5		1	030	1
5WG1 285-2EB11	1/9		1	030	1
5WG1 285-2EB11	6/5		1	030	1
5WG1 285-2EB21	1/9		1	030	1
5WG1 285-2EB21	6/5		1	030	1
5WG1 285-2EB81	1/9		1	030	1
5WG1 285-2EB81	6/5		1	030	1
5WG1 286-2AB01	1/4		1	030	1
5WG1 286-2AB11	1/4		1	030	1
5WG1 286-2AB21	1/4		1	030	1
5WG1 286-2AB81	1/4		1	030	1
5WG1 286-2EB01	1/9		1	030	1
5WG1 286-2EB01	6/5		1	030	1
5WG1 286-2EB11	1/9		1	030	1
5WG1 286-2EB11	6/5		1	030	1
5WG1 286-2EB21	1/9		1	030	1
5WG1 286-2EB21	6/5		1	030	1
5WG1 286-2EB81	1/9		1	030	1
5WG1 286-2EB81	6/5		1	030	1
5WG1 287-2AB01	1/4		1	030	1
5WG1 287-2AB11	1/4		1	030	1
5WG1 287-2AB21	1/4		1	030	1
5WG1 287-2AB81	1/4		1	030	1
5WG1 287-2EB01	1/9		1	030	1
5WG1 287-2EB01	6/5		1	030	1
5WG1 287-2EB11	1/9		1	030	1
5WG1 287-2EB11	6/5		1	030	1
5WG1 287-2EB21	1/9		1	030	1
5WG1 287-2EB21	6/5		1	030	1
5WG1 287-2EB81	1/9		1	030	1
5WG1 287-2EB81	6/5		1	030	1
<b>5WG1 29</b>					
5WG1 293-8AB00	1/12		100	030	10
5WG1 293-8AB01	1/12		100	030	10
5WG1 293-8AB02	1/12		100	030	10
5WG1 293-8AB03	1/12		100	030	10
5WG1 293-8AB04	1/12		100	030	10
5WG1 293-8AB05	1/12		100	030	10
5WG1 293-8AB06	1/12		100	030	10
5WG1 293-8AB07	1/12		100	030	10
5WG1 293-8AB08	1/12		100	030	10
5WG1 293-8AB10	1/12		100	030	10
5WG1 294-8AB01	9/2		1	030	10
<b>5WG1 3</b>					
5WG1 300-1AB01	8/4		1	030	1
5WG1 301-1AB01	8/3		1	030	1
5WG1 302-1AB01	8/5		1	030	1
5WG1 341-1AB01	8/5		1	030	1
5WG1 342-1AB01	5/7		1	030	1
5WG1 343-1AB01	11/2		1	030	1
5WG1 345-1AB01	5/24		1	030	1
5WG1 347-1AB02	8/3		1	030	1
5WG1 350-1AB01	8/3		1	030	1

\* You can order this quantity or a multiple thereof.

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Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
5WG1 350-1AB01	8/5		1	030	1
5WG1 350-1EB01	6/8		1	030	1
5WG1 350-1EB01	8/4		1	030	1
5WG1 350-1EB01	8/6		1	030	1
5WG1 360-1AB01	5/23		1	030	1
5WG1 371-5EY01	8/7		1	030	1
5WG1 372-5EY01	8/7		1	030	1
5WG1 372-5EY02	8/7		1	030	1
5WG1 373-5EY01	8/8		1	030	1
5WG1 390-3EY01	8/8		1	030	1
<b>5WG1 4</b>					
5WG1 420-3AB11	1/26		1	030	2
5WG1 420-3AB12	1/26		1	030	2
5WG1 421-3AB11	1/26		1	030	2
5WG1 421-3AB12	1/26		1	030	2
5WG1 422-3AB11	1/26		1	030	2
5WG1 422-3AB12	1/26		1	030	2
5WG1 425-7AB21	1/26		1	030	1
5WG1 440-7AB01	6/6		1	030	1
5WG1 450-1AB02	6/6		1	030	1/5
5WG1 490-8AA81	1/26		1	030	1
<b>5WG1 5</b>					
5WG1 510-1AB03	2/4		1	030	1
5WG1 510-1AB04	2/4		1	030	1
5WG1 511-2AB01	2/5		1	030	1
5WG1 512-1AB01	2/5		1	030	1
5WG1 512-1CB01	2/5		1	030	1
5WG1 520-2AB01	5/12		1	030	1
5WG1 520-2AB11	5/12		1	030	1
5WG1 521-1AB01	5/9		1	030	1
5WG1 521-1CB01	5/9		1	030	3
5WG1 521-4AB02	5/12		1	030	1
5WG1 522-1AB02	5/9		1	030	1
5WG1 523-1AB02	5/10		1	030	1
5WG1 523-1AB03	5/10		1	030	1
5WG1 523-1AB04	5/10		1	030	1
5WG1 524-1AB01	5/11		1	030	1
5WG1 525-1AB02	5/4		1	030	1
5WG1 525-1CB02	5/4		1	030	1
5WG1 525-1EB01	5/5		1	030	1
5WG1 525-1EB01	6/7		1	030	1
5WG1 525-2AB01	5/2		1	030	1
5WG1 525-2AB11	5/2		1	030	1
5WG1 525-4AB02	5/6		1	030	1/4
5WG1 526-1AB02	4/3		1	030	1
5WG1 526-1AB02	5/4		1	030	1
5WG1 526-1AB02	5/7		1	030	1
5WG1 526-1EB01	5/5		1	030	1
5WG1 526-4AB01	5/6		1	030	1/5
5WG1 527-1AB02	5/3		1	030	1
5WG1 528-1AB02	5/3		1	030	1
5WG1 540-5AS01	5/21		1	030	1
5WG1 540-8AS01	5/21		1	030	1
5WG1 560-7AH01	5/22		1	030	1
5WG1 560-7AH02	5/22		1	030	1
5WG1 561-4AB02	2/5		1	030	1
5WG1 561-4CB01	2/5			on requ.	
5WG1 562-1AB01	2/3		1	030	1
5WG1 562-2AB01	2/5		1	030	1
5WG1 562-2AB11	2/5		1	030	1
5WG1 562-7EY01	5/22		1	030	1

\* You can order this quantity or a multiple thereof.

Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
5WG1 563-2AB01	2/6		1	030	1
5WG1 563-2AB11	2/6		1	030	1
5WG1 563-2AB21	2/6		1	030	1
5WG1 563-2AB71	2/6		1	030	1
5WG1 567-1AB01	2/3		1	030	1
5WG1 567-1AB11	2/4		1	030	1
5WG1 567-1AB12	2/4		1	030	1
5WG1 584-2AB21	1/23		1	030	1
5WG1 585-2AB01	1/23		1	030	1
5WG1 585-2AB11	1/23		1	030	1
5WG1 585-2AB21	1/23		1	030	1
5WG1 585-2AB71	1/23		1	030	1
5WG1 586-2AB01	1/23		1	030	1
5WG1 588-2AB01	1/24		1	030	1
5WG1 588-2AB11	1/24		1	030	1
5WG1 588-2AB21	1/24		1	030	1
5WG1 588-8AB01	1/24		1	030	1
5WG1 590-8AH01	5/22		1	030	1
<b>5WG1 6</b>					
5WG1 605-1AB01	4/2		1	030	1
5WG1 605-1AB01	5/20		1	030	1
5WG1 605-1AB11	4/3		1	030	1
5WG1 605-1AB11	5/20		1	030	1
5WG1 611-3AL01	5/26		1	030	1
5WG1 611-3AL11	5/26		1	030	1
5WG1 611-3AL21	5/26		1	030	1
5WG1 611-3AL31	5/26		1	030	1
5WG1 611-3AL41	5/26		1	030	1
5WG1 611-3AL51	5/27		1	030	1
5WG1 611-3AL61	5/27		1	030	1
5WG1 631-3AL01	5/28		1	030	1
5WG1 631-3AL02	5/28		1	030	1
5WG1 631-3AL11	5/28		1	030	1
5WG1 631-3AL12	5/29		1	030	1
5WG1 631-3AL21	5/29		1	030	1
5WG1 631-3AL22	5/29		1	030	1
5WG1 631-3AL32	5/30		1	030	1
5WG1 631-3AL43	5/30			on requ.	
5WG1 631-3AL44	5/30			on requ.	
5WG1 631-3AL51	5/30		1	030	1
5WG1 631-3AL52	5/31		1	030	1
5WG1 631-3AL62	5/31			on requ.	
5WG1 670-1AB03	2/2		1	030	1
5WG1 670-1AB03	3/2		1	030	1
5WG1 670-1AB03	4/2		1	030	1
5WG1 670-1AB03	5/15		1	030	1
5WG1 670-1AB03	5/21		1	030	1
<b>5WG1 8</b>					
5WG1 810-0EY01	8/8		1	030	1
5WG1 810-8EY01	8/8		1	030	1
5WG1 810-8EY02	8/8		1	030	1
<b>5WG3 1</b>					
5WG3 110-2AB01	12/18		1	030	1
5WG3 110-2AB11	12/18		1	030	1
5WG3 110-8AB01	12/9		1	030	1
5WG3 110-8AB11	12/9		1	030	1
5WG3 110-8AB21	12/9		1	030	1
5WG3 110-8AB71	12/9		1	030	1
5WG3 140-2AB01	12/17		1	030	1
5WG3 140-2AB01	6/9		1	030	1

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Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
5WG3 140-2AB11	12/17		1	030	1
5WG3 140-2AB11	6/9		1	030	1
5WG3 140-2AB21	12/17		1	030	1
5WG3 140-2AB21	6/9		1	030	1
5WG3 140-2AB71	12/17		1	030	1
5WG3 140-2AB71	6/9		1	030	1
5WG3 140-2GB11	12/17		1	030	1
5WG3 140-2GB11	6/9		1	030	1
5WG3 140-2GB21	12/17		1	030	1
5WG3 140-2GB21	6/9		1	030	1
5WG3 140-2HB11	12/17		1	030	1
5WG3 140-2HB11	6/9		1	030	1
5WG3 140-2HB21	12/17		1	030	1
5WG3 140-2HB21	6/9		1	030	1
5WG3 140-2HB31	12/17		1	030	1
5WG3 140-2HB31	6/9		1	030	1
5WG3 141-2AB01	12/19		1	030	1
<b>5WG3 2</b>					
5WG3 210-2AB01	12/7		1	030	1
5WG3 210-2AB11	12/7		1	030	1
5WG3 210-2AB21	12/7		1	030	1
5WG3 210-2AB71	12/7		1	030	1
5WG3 210-2GB11	12/8		1	030	1
5WG3 210-2GB21	12/8		1	030	1
5WG3 210-2HB11	12/7		1	030	1
5WG3 210-2HB21	12/7		1	030	1
5WG3 210-2HB31	12/7		1	030	1
5WG3 211-2AB01	12/7		1	030	1
5WG3 211-2AB11	12/7		1	030	1
5WG3 211-2AB21	12/7		1	030	1
5WG3 211-2AB71	12/7		1	030	1
5WG3 211-2GB11	12/8		1	030	1
5WG3 211-2GB21	12/8		1	030	1
5WG3 211-2HB11	12/7		1	030	1
5WG3 211-2HB21	12/7		1	030	1
5WG3 211-2HB31	12/7		1	030	1
5WG3 255-8AB01	12/16		1	030	1
5WG3 260-3AB11	12/15		1	030	1
5WG3 260-3AB81	12/15		1	030	1
5WG3 261-3AB11	12/13		1	030	1
<b>5WG3 4</b>					
5WG3 425-7AB21	1/26		1	030	1
5WG3 425-7AB21	12/11		1	030	1
5WG3 425-7AB71	1/26		1	030	1
5WG3 425-7AB71	12/11		1	030	1
<b>5WG3 5</b>					
5WG3 560-2AB01	12/12		1	030	1
5WG3 560-2AB01	12/18		1	030	1
5WG3 564-7AB11	12/12		1	030	1
5WG3 580-2AB71	1/25		1	030	1
5WG3 580-2AB71	12/10		1	030	1
5WG3 581-2AB71	1/25		1	030	1
5WG3 581-2AB71	12/10		1	030	1
5WG3 582-2AB71	1/25		1	030	1
5WG3 582-2AB71	12/10		1	030	1
5WG3 583-2AB71	1/25		1	030	1
5WG3 583-2AB71	12/10		1	030	1
<b>63101</b>					
63101-32-01	1/30		on requ.		
63101-32-10	1/30		on requ.		
63101-32-11	1/30		on requ.		

Order number	Page	Price per PU	PU Unit	PG	PS*/P. unit Unit(s)
63101-32-06	1/30		on requ.		
63101-32-07	1/30		on requ.		
63101-32-04	1/30		on requ.		
63101-32-12	1/30		on requ.		
63101-32-08	1/30		on requ.		
<b>6BK1</b>					
6BK1700-0BA00-0AA1	6/12		1	475	1
6BK1700-0BA00-0AA1	8/2		1	475	1
<b>6ED1</b>					
6ED1 052-1FB00-0BA5	8/2		1	200	1
6ED1 052-1MD00-0BA5	8/2		1	200	1
6ED1 055-1MD00-0BA0	8/2		1	200	1
<b>6GK1</b>					
6GK1 415-0AA01	6/11		1	540	1
6GK1 971-3DA00-0AA0	6/11		1	540	1
6GK1 971-3DA00-0AA1	6/11		1	540	1
<b>7KT1</b>					
7KT1 162	11/2		1	027	1
7KT1 165	11/2		1	027	1
<b>LSD</b>					
LSD:STA21	5/22		1		1
LSD:STP21	5/22		1		1

## Terms and conditions of sale and delivery, Export regulations

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# Appendix

## Notes

# Appendix

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# Appendix

## Notes

# Catalogs of the Automation and Drives Group (A&D)

Further information can be obtained from our branch offices listed  
in the appendix or at [www.siemens.com/automation/partner](http://www.siemens.com/automation/partner)

<b>Automation and Drives</b>	<i>Catalog</i>	
Interactive catalog on CD-ROM and on DVD		
• The Offline Mall of Automation and Drives	CA 01	
<b>Automation Systems for Machine Tools</b>		
SINUMERIK & SIMODRIVE	NC 60	
SINUMERIK & SINAMICS	NC 61	
<b>Drive Systems</b>		
<u>Variable-Speed Drives</u>		
SINAMICS G130 Drive Converter Chassis Units, SINAMICS G150 Drive Converter Cabinet Units	D 11	
SINAMICS G110 Inverter Chassis Units	D 11.1	
SINAMICS GM150/SINAMICS SM150 Medium-Voltage Converter 0.6 MVA to 28 MVA	D 12	
SINAMICS S120 Vector Control Drive System	D 21.1	
SINAMICS S120 Servo Control Drive System	D 21.2	
SINAMICS S150 Drive Converter Cabinet Units	D 21.3	
Asynchronous Motors Standardline	D 86.1	
DC Motors	DA 12	
SIMOREG DC MASTER 6RA70 Digital Chassis Converters	DA 21.1	
SIMOREG K 6RA22 Analog Chassis Converters	DA 21.2	
SIMOREG DC MASTER 6RM70 Digital Converter Cabinet Units	DA 22	
SIMOVERT PM Modular Converter Systems	DA 45	
SIEMOSYN Motors	DA 48	
MICROMASTER 410/420/430/440 Inverters	DA 51.2	
MICROMASTER 411/COMBIMASTER 411	DA 51.3	
SIMOVERT MASTERDRIVES Vector Control	DA 65.10	
SIMOVERT MASTERDRIVES Motion Control	DA 65.11	
Synchronous and asynchronous servomotors for SIMOVERT MASTERDRIVES	DA 65.3	
SIMODRIVE 611 universal and POSMO	DA 65.4	
<u>Low-Voltage Three-Phase-Motors</u>		
Squirrel-Cage Motors, Totally Enclosed, Fan-Cooled	M 11	
<u>Automation Systems for Machine Tools SIMODRIVE</u>	NC 60	
• Main Spindle/Feed Motors		
• Converter Systems SIMODRIVE 611/POSMO		
<u>Automation Systems for Machine Tools SINAMICS</u>	NC 61	
• Main Spindle/Feed Motors		
• Drive System SINAMICS S120		
<u>Drive and Control Components for Hoisting Equipment</u>	HE 1	
<b>Electrical Installation Technology</b>		
ALPHA Small Distribution Boards and Distribution Boards	ETA1	
<i>PDF: ALPHA 8HP Molded-Plastic Distribution System</i>	ETA3	
ALPHA FIX Terminal Blocks	ET A5	
BETA Modular Installation Devices	ET B1	
DELTA Switches and Socket Outlets	ET D1	
GAMMA Building Management Systems	ET G1	
<b>Human Machine Interface Systems SIMATIC HMI</b>	ST 80	
<b>Industrial Communication for Automation and Drives</b>		<i>Catalog</i>
		IK PI
<b>Low-Voltage</b>		
Controls and Distribution – SIRIUS, SENTRON, SIVACON		LV 1
Controls and Distribution – Technical Information SIRIUS, SENTRON, SIVACON		LV 1 T
SIDAC reactors and filters		LV 60
SIVENT Fans		LV 65
SIVACON 8PS Busbar trunking systems CD, BD01, BD2 up to 1250 A		LV 70
<b>Motion Control System SIMOTION</b>		PM 10
<b>Process Instrumentation and Analytics</b>		
Field Instruments for Process Automation		FI 01
Measuring Instruments for Pressure, Differential Pressure, Flow, Level and Temperature, Positioners and Liquid Meters		
<i>PDF: Indicators for panel mounting</i>		MP 12
SIREC Recorders and Accessories		MP 20
SIPART, Controllers and Software		MP 31
SIWAREX Weighing Systems		WT 01
Continuous Weighing and Process Protection		WT 02
Process Analytical Instruments		PA 01
<i>PDF: Process Analytics, Components for the System Integration</i>		PA 11
<b>SIMATIC Industrial Automation Systems</b>		
SIMATIC PCS Process Control System		ST 45
Products for Totally Integrated Automation and Micro Automation		ST 70
SIMATIC PCS 7 Process Control System		ST PCS 7
Add-ons for the SIMATIC PCS 7 Process Control System		ST PCS 7.1
Migration solutions with the SIMATIC PCS 7 Process Control System		ST PCS 7.2
pc-based Automation		ST PC
SIMATIC Control Systems		ST DA
<b>SIMATIC Sensors</b>		FS 10
<b>SIPOS Electric Actuators</b>		
Electric Rotary, Linear and Part-turn Actuators		MP 35
Electric Rotary Actuators for Nuclear Plants		MP 35.1/.2
<b>Systems Engineering</b>		
Power supplies SITOP power		KT 10.1
System cabling SIMATIC TOP connect		KT 10.2
<b>System Solutions</b>		
Applications and Products for Industry are part of the interactive catalog CA 01		
<b>TELEPERM M Process Control System</b>		
<i>PDF: AS 488/TM automation systems</i>		PLT 112

*PDF:* These catalogs are only available as pdf files.

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