

Perfection to the last detail

The basis for quality work and satisfied customers



DELTA

Answers for infrastructure.

SIEMENS



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DELTA switch and socket outlet ranges in use

High expectations. And meeting them.

Your customers have high expectations. Especially when it comes to choosing switches and socket outlets. They want them to look good, be functional, easy to clean, robust, durable, and much more besides. Expectations that you can easily meet with our DELTA switch and socket outlet product ranges. Whether you're considering motion detection, smoke detection or control for blinds and room temperature, our variety of solutions and applications deliver greater convenience and security. Integrated into the DELTA programs, these functions can easily be realized for new buildings, retrofitting and renovations.



DELTA insert, SCHUKO® socket outlets



DELTA insert, pushbutton

DELTA inserts

Available for every application

It's a well-known fact that simple installation starts with the inserts. That's why we designed these to help you get to grips with them easily. Anyone who looks to the future when deciding on switch and socket outlet inserts is right on the ball with the DELTA inserts: Our flush-mounting insert system is practical, quick and versatile to handle. It matches all DELTA switch and socket outlet product ranges – including the innovative i-system. This means you can get your work done professionally and swiftly – and keep your customers totally happy. See for yourself.



SCHUKO® outlet with combination screw, i-system

Advantages:

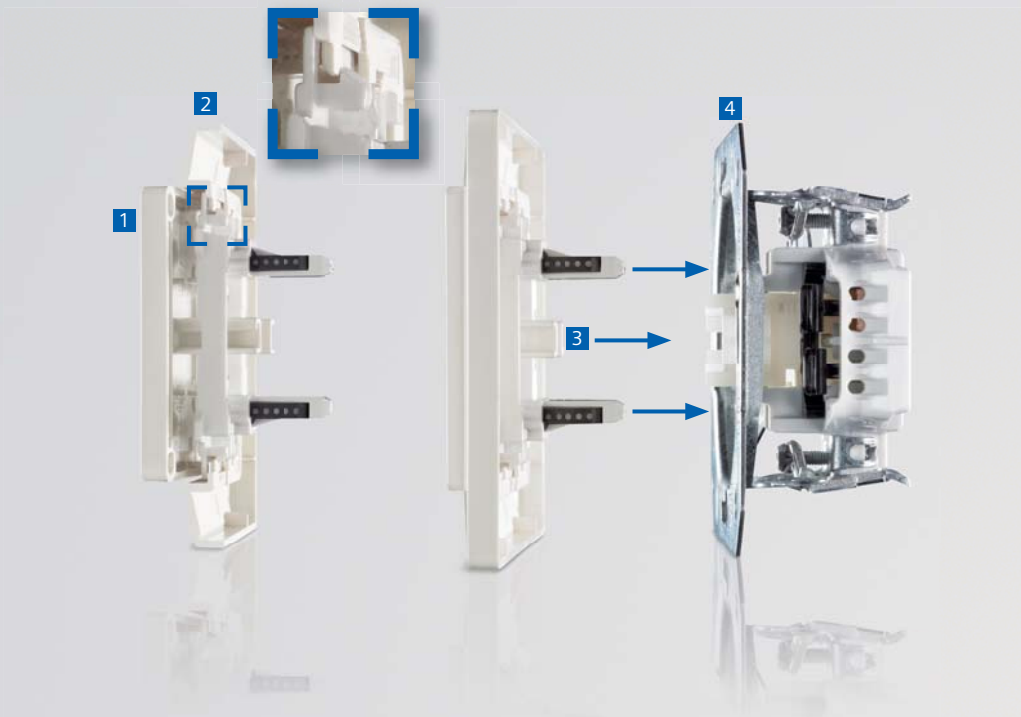
- Installation of switch and socket outlet inserts with little application of force
- Very low tool wear since the screwdriver cannot slip out of the screw head so easily
- Screws can be undone again at any time without problem since the screw head is not damaged
- Use of Torx T10 and slotted screwdrivers possible

Insert with combination screws* for Torx T10 and slotted screwdrivers

Small inventions make life easier

Equipment inserts for switches and push-buttons in all DELTA product ranges and SCHUKO® outlets from the i-system range are now also available on request with the extremely user-friendly combination screws for Torx T10 or slotted screwdrivers. They offer you numerous advantages for handling. For instance, the screwdriver can no longer slip in the screw head with increasing torque. Installation requires less time and less application of force on the screwdriver. This saves tool and screw alike.

Combination screws are also fitted with an additional cross slot enabling slotted screwdrivers to be used as an alternative to the Torx T10 screwdriver. They likewise do not slip out of the slot, an advantage that pays off especially in awkward installation positions.



Plug-in system between **4** insert and **3** operating interface makes installation easy and reliable

Unique, sophisticated, proven plug-in system

Simple and safe installation – even under difficult conditions

Too little scope for adjustment to the plaster surface leads to malfunctions in flush-mounted or papered-over switch inserts. Or the inserts sit crooked in the wall. The consequence: unsmooth rocker action, especially in multiple combinations. Now there's an end to this: with our unique, thought-through and proven plug-in system between the insert and the rocker.



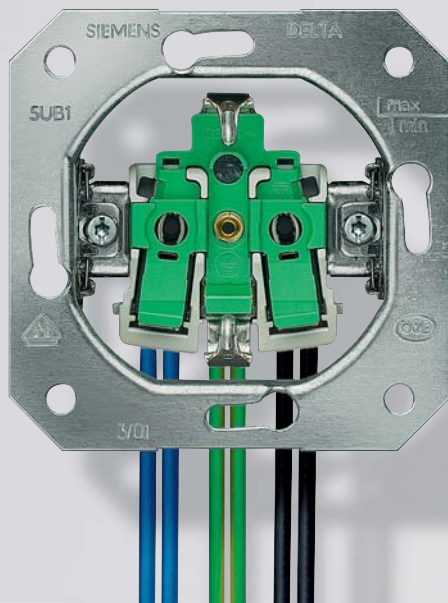
Always the same gap dimensions – even with unevenly mounted inserts or over-large wall spacings



The special design of the switch lever guidance means that you can compensate for less than ideally positioned inserts and over-large wall spacings

The **1** rocker is clipped into the **2** frame and thus forms a single unit. This ensures the utmost switching reliability even if the inserts are irregularly seated, high **5** adjustment to plaster surface of 3 mm and quick installation and dismantling, even under difficult installation conditions.

The special design of the switch lever guidance means you can compensate for less than ideally positioned inserts and over-large wall spacings. This avoids subsequent improvement work at the customer and saves you a lot of time and additional effort.



The double terminals are located clearly on one side for quick connection

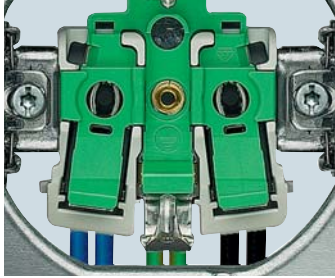
Compact inserts

Make use of the time you gain in installation

It takes just a few simple operations to install our inserts and they're securely seated in the wall.

The convenient bit for you: The base of the inserts has a particularly compact design. This leaves more wiring space.

The double terminals are connecting terminals and are clearly arranged on one side, which makes connection quick and easy.



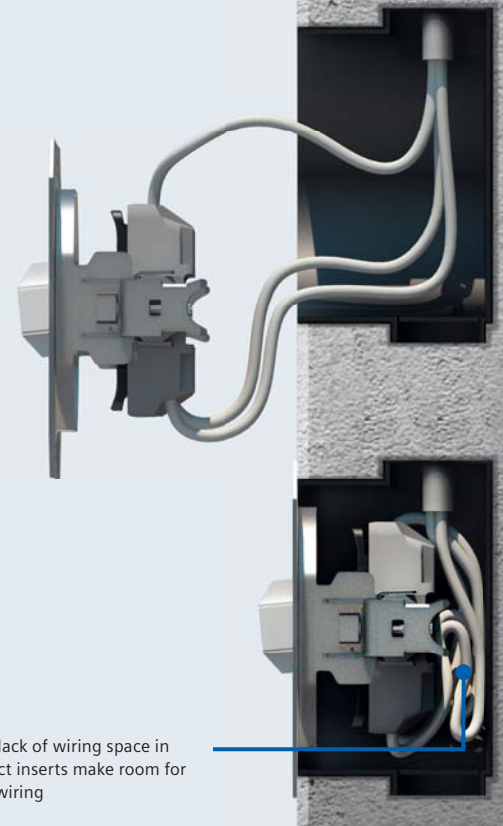
Thanks to easily accessible release levers, the conductors can be released with only moderate pressure and without risk of injury



Connecting conductors is quick and easy – just plug the solid conductors with a 1.5 mm² or 2.5 mm² cross section into the multiple wire cable entries



Even with a glow lamp plugged in, the conductors are still easily accessible to allow use of a voltage tester

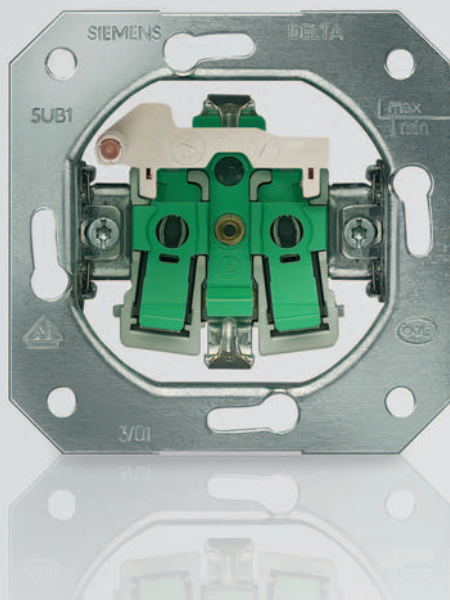


Don't put up with a lack of wiring space in the box: Our compact inserts make room for enough cables and wiring

Anyone who installs inserts knows that it's often difficult to release the conductors from the terminals. Our inserts are different. Thanks to easily accessible and ergonomically designed release levers, only light pressure is needed – with absolutely no risk of injury.

The live parts are covered with insulating material for all-round protection against electric shock. They afford a high degree of protection even if the design part is removed, for example for painting or wall-papering.

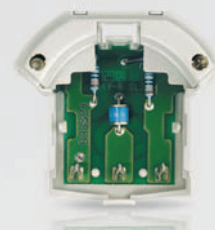
What's more, thanks to standard insulation stripping lengths for switches and socket outlets, there is no need to adjust the stripping length on the tool. This all makes for simple and reliable installation.



SCHUKO® outlet with glow lamp for function display



EIB adapter for switchable outlet



Overvoltage protection module



Overvoltage protection module plugged in

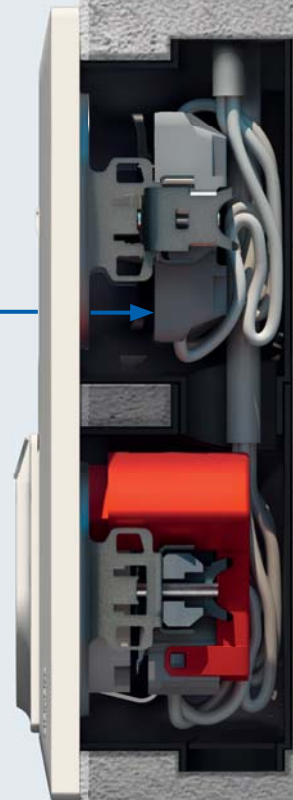
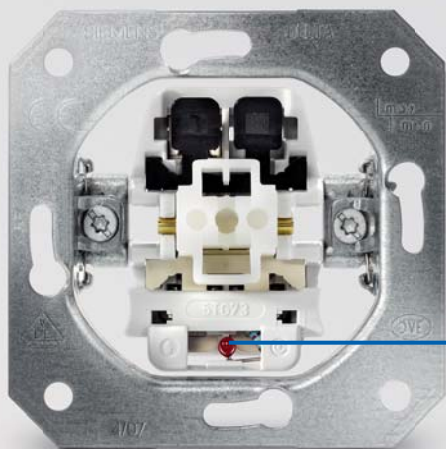
Modular concept

Retrofitting and replacement made easy

No matter whether you want to add extra functions or replace components – the modular concept and the plug-in technology make it easy for you.

Our socket outlets are modular. That means: With the same insert, you can realize additional functions such as overvoltage protection, status display and switchable socket outlet by fitting add-on modules.

This means that retrofitting an installed outlet is possible at any time.



For (SCHUKO)® outlets with overvoltage protection it is enough to use a standard 40-mm-deep switch and socket box. And because the double terminal remains free when the module is snapped on, the phase can still be looped through

Even when you are changing a lighting element, there is no need to remove the insert

The modular concept of the equipment is practical and saves time and money. Glow lamps, incandescent lamps and LEDs can be plugged in easily from the front.

In this way, they can be exchanged or retrofitted without dismantling and thus without the ensuing dirt, even while in operation.



With a set of seals, switches and outlets from the i-system can easily be converted to degree of protection IP44



Surface-mounting enclosure for DELTA line and DELTA style in combination with degree of protection IP44: unique!

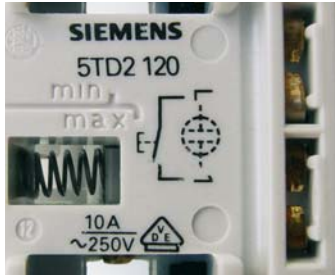
Degree of protection IP44

A product range for every application

You can also achieve degree of protection IP44 without changing the frames in the i-system (DELTA line, DELTA vita, DELTA miro) and the DELTA style range of switches. Whether for a bathroom, outdoors or in a cellar, all that's needed is a set of seals. In addition, DELTA line and DELTA style are suitable for surface-mounting thanks to the new surface-mounting enclosure in single, double or triple design. And in combination with IP44, that is unique.



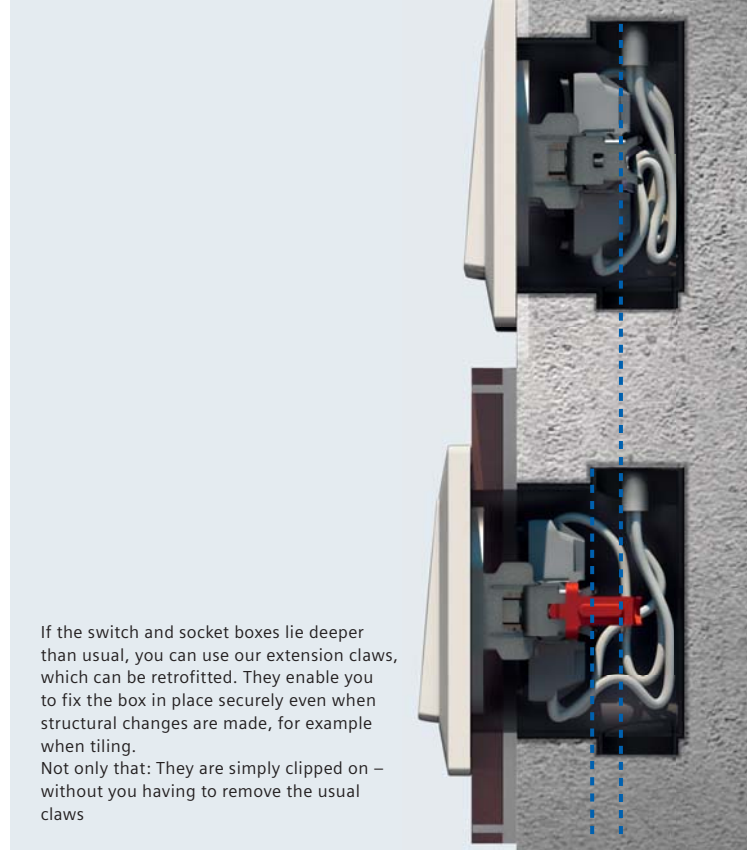
Insulation stripping length with tolerance clearly shown marked on the hanger and socket base. Installation errors caused by stripping off too short a length of insulation from the conductor are avoided



A circuit diagram and the item number on the back of the base with the correctly positioned terminal markings rule out installation errors caused by wrong connections



The use of a torsion bar makes the self-retracting claws resistant to ageing and reversible – even if the unit is installed again and again



If the switch and socket boxes lie deeper than usual, you can use our extension claws, which can be retrofitted. They enable you to fix the box in place securely even when structural changes are made, for example when tiling.
Not only that: They are simply clipped on – without you having to remove the usual claws

Well thought-out inserts

Perfect to the last detail

The insulation stripping length plus tolerance is marked clearly on the hanger and socket base. That helps avoid errors caused by stripping off too little insulation from the conductors. Thanks to the standard insulation stripping length of 10 mm for all switch types including **SCHUKO**® outlets, there is no need to set the stripping length on the tool.

Another advantage is that you can see immediately how the insert is connected. A circuit diagram and item number on the back of the base with the correctly positioned terminal markings rule out installation errors caused by incorrect connections.



Remote control
with GAMMA wave



Security
(smoke detector,
door/window contact)



Solutions and applications

Matching design and maximum functionality

Our solutions open up a host of applications for increased comfort and security –
always in the matching DELTA design.



Comfort

(lighting, shutter/blind control, and remote control)



Energy saving

(motion detectors, room temperature controllers)



Control and indication

(all home functions firmly under control with GAMMA *instabus*)

This includes, for example, the controlling of shutters and blinds, heating and air conditioning and the dimming of lights. These functions considerably increase comfort.

By installing smoke detectors, smoke caused by fires is detected and signaled in time.

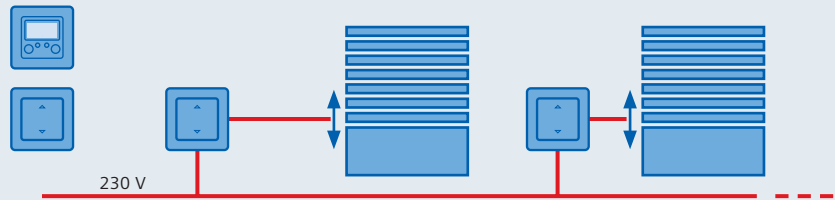
You can also save electricity by using motion detectors, and make life a lot easier too.

And by the way: All GAMMA *instabus* and GAMMA wave applications are also available in the DELTA switch and socket outlet designs.

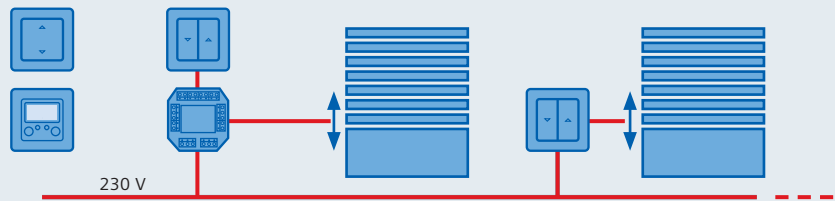
The variety of different functions of the GAMMA *instabus* building management system is especially apparent in the displays. An overview of all important room or building states is combined with simple operability. An overview of the state of the building, for example whether all windows are shut, can be provided at a central point.



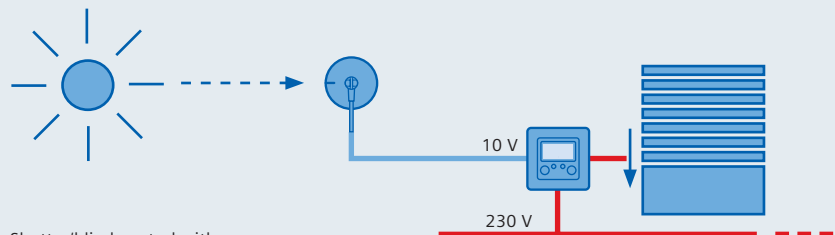
Group and central control of shutters/blinds



Solution with sys pushbutton (switch/pushbutton)



Solution with shutter/blind relay and conventional pushbuttons



Shutter/blind control with sun sensor (accessory for comfort shutter/blind control)

DELTA shutter/blind control

Controlling shutters and blinds exactly how you want them

There are a host of possible applications available for shutter/blind control, from local or central operation to brightness or time-dependent control with sun sensor or time switch. For new buildings as well as for installation later or for renovation.



1 Rotary dimmer



2 Universal dimmer



3 Sensor dimmer

1 Rotary dimmer

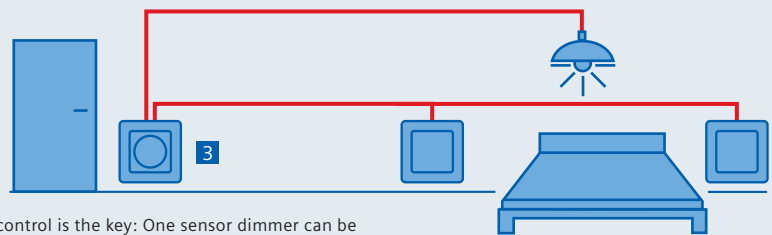
- Setting the required brightness by turning the dimmer
- Switching the light on and off by pressing
- Also usable with intermediate and two-way switches

3 Sensor dimmer

- Dimming the brightness of the connected light with a sensor dimmer and any number of additional pushbuttons. All you need to do is touch the operating surface lightly.
- Possibility of connecting conventional pushbuttons for extension unit operations. These act in the control system equivalent to the sensor dimmer.

2 Universal dimmer

- Usable for a large number of lamp loads
- Convenient operation of the touch dimmer by simply switching on and off like a light switch
- Direct increasing and decreasing of dimming level to required brightness
- The memory function enables you to store the dimming value you want which is set when you switch on
- Can be switched and dimmed from various points with conventional push-buttons



Networked control is the key: One sensor dimmer can be actuated by several conventional pushbuttons

DELTA dimmers

For creating individual lighting effects

Dimmers are used wherever importance is attached to creating pleasant lighting effects easily. Our DELTA range of dimmers comprises devices for controlling all common types of lamp, including incandescent lamps, high-voltage halogen lamps, fluorescent lamps and also low-voltage halogen lamps with magnetic or electronic transformer.



Room temperature controller,
NC/CO contact



Room temperature controller,
3-position switch



Room temperature controller,
direct floor heating

DELTA room temperature controllers

Everything perfectly under control

Room temperature controllers make an important contribution to energy saving
and at the same time provide comfort and convenience, naturally in the matching
DELTA design.

Room temperature controllers, NC/CO contact

- For electric and warm-water convectors, pumps and tank control
- For heating or cooling control

Room temperature controllers, 3-position switch

- For electric and warm-water convectors, pumps and tank control
- External time signal for automatic timing, constant comfortable temperature or night-time reduction by overriding the time signal

Room temperature controllers, direct floor heating

- For controlling floor storage heating and electric floor heating with mats
- The basic controller type comprises two parts: a control device (for setting the required floor temperature) and a remote sensor (in the floor for monitoring the set temperature)



DELTA reflex battery smoke detector

DELTA reflex SD230N smoke detector

DELTA reflex SD9 smoke detector

DELTA reflex SD9L smoke detector

DELTA reflex smoke detectors

For security throughout the whole house

Our quality smoke detectors tested to DIN EN 14604 VDS are available in four different versions, each made of highly UV-resistant material and with a battery change indicator for approximately 30 days.

DELTA reflex battery smoke detector

- Economical operation with a battery life of at least 5 years using economical standard R6 (AA) batteries
- Flexible expansion with:
 - Relay module for the operation of external alarms such as horns or flashing lights
 - Radio module for connection to GAMMA *instabus*
- Suitable for networking with up to 40 other smoke detectors via two-wire cable

DELTA reflex SD230N smoke detector

- Permanent 230-V power supply with 9-V buffer battery for power outages
- Modern design in titanium white finish
- Simple and quick to fit
- Suitable for networking with up to 38 other smoke detectors

DELTA reflex SD9 smoke detector

- 9-V smoke detector with battery life of up to 2.5 years
- Test button for function testing
- Modern design in titanium white finish
- Very good price-performance ratio
- Stand-alone version

DELTA reflex SD9L smoke detector*

- Same characteristics as DELTA reflex smoke detector SD9 with this difference:
- 9-V smoke detector with high-quality lithium batteries with battery life of up to 7 years

* available from 07/2008

Remote control functions:

- Vacation function/absence
- Light on 4 hours
- Continuous off
- Simple configuration of the brightness value and the overrun time through the remote control



DELTA reflex IP55 motion detector

Remote control

DELTA reflex IP55 motion detector

Light whenever it's needed

Automatic light switching is particularly recommended for the outdoor area.

A case for our motion detectors.

DELTA reflex IP55 motion detector:

- Can be put into operation immediately
- Test mode starts automatically on applying voltage for the first time with subsequent initialization phase of about 30 seconds
- After 10 minutes, the detector switches automatically into standard operation with preset 2-minute overrun time and 7-lux brightness
- Precisely adjustable values for brightness and overrun time, making on-site visits to improve settings unnecessary
- Simple installation by plugging the motion detector onto the connection box
- The preset brightness value and the overrun time can be changed simply by pressing a key
- Flexible in use: wall, ceiling or corner installation
- Attractive price-performance ratio
- Attractive design
- Available in titanium white and anthracite
- Two detection areas:
 - 120°, range approximately 10 m;
 - 290°, range approximately 16 m
- Additional remote control functions with the 290° IR version



UP motion detector

UP comfort motion detector

DELTA motion detectors UP

Automatic energy saving

DELTA motion detectors UP for the indoor area are fitted with an automatic switch for practical energy saving. It is available in two versions.

UP motion detectors:

- Fixed overrun time of two minutes
- Adjustable brightness value and sensitivity

UP comfort motion detectors:

- Overrun time programmable from 10 seconds to 30 minutes
- "Teach-in" function: By covering the detector selectively with your hand, you can store the current brightness as a brightness threshold
- User can choose "continuous ON", "continuous OFF" or "automatic" mode at any time



DELTA miro glass
Text display UP 587/1



DELTA miro aluminum
Single pushbutton, nature aluminum

GAMMA *instabus*

Building management system in all DELTA product ranges

Increased security and comfort with maximum economy – that's possible with the
GAMMA *instabus* building management system. It can be implemented with all
DELTA switch and socket outlet product ranges.

DELTA miro



DELTA miro wood
single pushbutton,
maple/titanium white



DELTA miro aluminum
single pushbutton,
aluminum*/nature



DELTA miro glass
single pushbutton,
crystal green/titanium white



DELTA miro color
single pushbutton,
titanium white/titanium white

i-system
components

DELTA line



Single pushbutton,
aluminum metallic

DELTA vita



Single pushbutton,
titanium white/green/
titanium white

DELTA profil



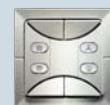
Single pushbutton,
titanium white

DELTA style

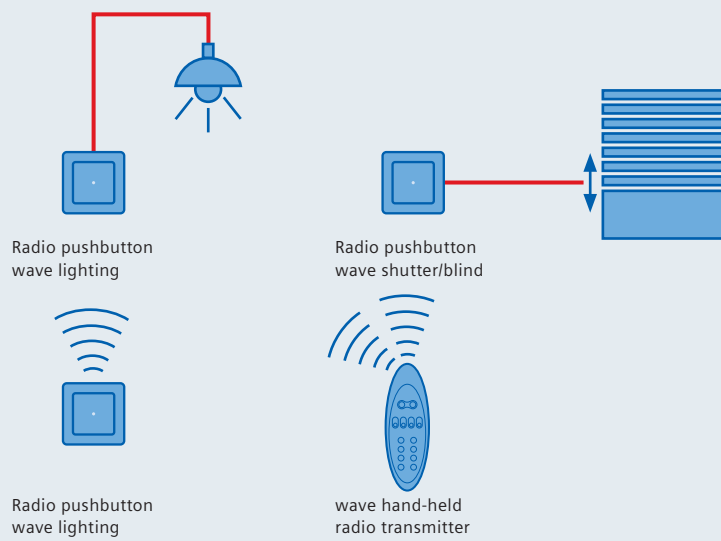


Single pushbutton,
titanium white

DELTA ambiente



Quadruple pushbutton,
arctic white



Advantages:

- Simple installation: facelifting, renovation, or modernization with minimal effort
- Unbeatable versatility: matching radio solution in the DELTA design
- Future-proof solution: flexibility and expandability to protect your investment

More information about GAMMA *instabus* and GAMMA wave can be found at the following Internet address:
www.siemens.com/gamma

GAMMA wave

The multiFUNctional Radio System

Enjoy all the advantages of a modern building control system without having to lay any additional cables – with the GAMMA wave radio system, anything goes.

No separate wiring is necessary for sensors and actuators. Radio transmission is consequently ideal for every kind of retrofitting project. The overall system is absolutely immune to interference and recognized as safe.

The great advantage: GAMMA wave is a unique bidirectional radio system, in other words, the products and components are capable of both sending and receiving.

i-system modules

Flexibility in color, material and shape

Typical components of the i-system:

Four basic colors:



titanium white



aluminum metallic



carbon metallic



electrical white

Functions (extract):



i-system frames:

DELTA line



titanium white



aluminum metallic



carbon metallic



electrical white

DELTA vita (frame and color element)



titanium white/red



aluminum metallic/
green



carbon metallic/
silver



gold/
gold

DELTA miro color



titanium white



aluminum metallic

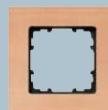


carbon metallic

DELTA miro wood (Genuine wood frame)



maple



beech*



cherry*



wengé



red maple

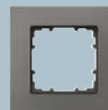
DELTA miro aluminum



natural**



oxide yellow**



graphite**



titanium**

DELTA miro glass



crystal green



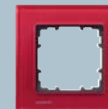
white**



black**



arena**



orient**

Examples of possible combinations:



Stay flexible

Anyone who chooses the versatile modular product range on the basis of the i-system opts for a great deal of flexibility and functionality. And they are choosing one of three DELTA switch and socket outlet product ranges with great design.

The advantage of this is that the functions can be fitted in any of the various frames. To change to a different DELTA range on the basis of the i-system, all you need to do is replace the frame. Upgrading or conversion at a later date is possible at any time. And it is backwards-compatible as far back as 1973. This opens the way for additional business with your customers who previously considered complete replacement of their equipment to be too complicated and costly.

Little expenditure on storage and logistics

Another advantage for you: less expense on storage and logistics. Because all you keep is a flexible modular product range on the basis of the i-system.

i-system at a glance:

- Flexible modular product range with dimensions of 55 x 55 millimeters for the DELTA line, DELTA vita and DELTA miro switch and socket outlet ranges
- Operator interfaces and outlets in the following colors: titanium white, electrical white, carbon metallic and aluminum metallic
- Set of seals for rockers and outlets that provide IP44 degree of protection
- Large pool of components with functions for:
 - Communication
 - Data and voice networks
 - Shutter/blind control***
 - Time circuits
 - Room temperature control
 - Dimmer control***
 - Motion detection
 - Connection to GAMMA *instabus*

* Color shade through staining
 ** available from 07/2008
 *** Connection to control elements for GAMMA *instabus*

DELTA switches

Overview of designs



* available from 07/2008

Environment protection and support

Putting more thought into it

Environment protection

Another plus point of the DELTA product ranges is the use of environmentally friendly materials. The inserts, for example, are free from cadmium and nickel, and the (SCHUKO)[®] outlets are made without PVC or halogens. Production of the electroplated coatings does not involve passivation using chromium VI nor pigments containing heavy metals, and no PVC or halogens are used in the design parts, either. This has twofold advantages: These product ranges are also suitable for people suffering from allergies, and in the event of a fire, no toxic fumes are generated. Not only that, all components can be disposed of in an environmentally responsible manner. It goes without saying that all of our switch and outlet product ranges comply with current standards.

For your assistance

Your satisfaction is our top priority. We therefore offer you comprehensive support, before and after your purchase and also with your planning. In addition, we provide you with numerous tools that simplify your work considerably. These include, for example, a labelling tool for easy labeling that you can download free from us or the Switch Designer program which helps your customers find the right switch quickly.

DELTA Switch Manager is a free software program for calculating switch and outlet components. It calculates the calculating of all switch components needed for fitting out a building quickly and accurately, enabling you to draw up quotations without great effort.

Switch/socket outlet combinations can be put together quickly and easily via a standardized interface. The combination can be changed to any product range or color variant at the press of a button and the individual parts needed are determined automatically. The price of the combination can be read off immediately.

If you have any technical questions, contact:

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Fax: +49 (0) 180 5050 223

Internet:

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

E-mail: ad.support@siemens.com

You will find further information on the Internet at:

www.siemens.com/delta

www.siemens.de/meinzuhause

www.siemens.com/switch-manager

www.siemens.com/labeling-tool



For further information, please contact your local Siemens sales partner.

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

E-mail: ad.support@siemens.com

Environmentally compatible products and production
We are deeply committed to environmentally compatible products and production methods that protect their resources by dispensing with hazardous substances and materials wherever possible. Over the years we have been honored with numerous awards in recognition of our special achievements in the area of environmental protection and nature conservation. Unless unavoidable for technical reasons, we refrain from using harmful substances such as lead, mercury, cadmium, hexavalent chromium compounds, PBB, and PBDE. Our switches and socket outlets have been cadmium-free for more than a decade. Here, too, Siemens is a true pacesetter.

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