

Function module UP 563 5WG1 563-2AB_1

As at: March 2003

Product and functional description

The function module UP 563 matches the design of the DELTA profil range and is available in the following colours:

DELTA profil pearl grey	5WG1 563-2AB01
DELTA profil titanium white	5WG1 563-2AB11
DELTA profil anthracite	5WG1 563-2AB21
DELTA profil silver	5WG1 563-2AB71

A switchable socket is produced by clipping the function module UP 563 onto the device insert of a Siemens SCHUKO socket with a green terminal cover. The selected SCHUKO socket can then be mounted as usual using the spacing frame provided.

So that the switching status of the UP 563 can be detected at the socket, a socket with an operational display (e.g. MLFB 5UB1472 for titanium white) should be used.

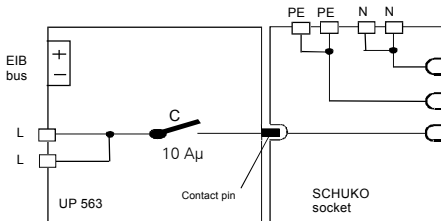
The function module has a 10 A switch contact available with an integrated bus coupler for *instabus EIB*. The supplied spacing frame enables the installation of the switchable SCHUKO socket in combined wall and joint boxes with a depth of 60 mm. The spacing frame can be omitted when 24 mm ring fittings for adjustment to the plaster surface are used. The selected SCHUKO socket and the appropriate frame must be ordered separately.

The power supply for the UP 563 is carried out via the bus. Connection to the bus is carried out via the plug-in bus terminal. A plug-in screwless terminal is provided on the function module for the connection of the L conductor. The second plug-in terminal is used to loop through the L conductor.

Additional Informations

<http://www.siemens.de/gamma>

Connection example



Technical data

Power supply

Via the bus line

Outputs

- Number: 1 output (floating contact)
- Rated voltage AC 230 V, 47 ...63 Hz
- Rated current: 10 A resistive load
- Switching current at AC 230 V:
 - 0.01 ... 10 A resistive load
- Switching current at DC 24 V:
 - 10 A resistive load
 - 4 A inductive load (L/R = 7 ms)
- Switching behaviour: adjustable, according to the application program

Switching capacity at AC 230 V

- For incandescent lamp load: max. 1000 W
- For fluorescent lamp load (FL):
 - uncorrected FL, $\cos \phi = 0.5$: max. 500 W
 - FL with parallel correction, $\cos \phi = 1$ (at $C_{tot} \leq 14 \mu F$): 2 x 58 W or 3 x 36 W or 6 x 18 W
- twin-lamp circuit, $\cos \phi = 1$: max. 1000 W
- Osram electronic ballast for 58 W FL: max. 10
- Osram electronic ballast for 36 W FL: max. 15
- Osram electronic ballast for 18 W FL: max. 20
- halogen lamp load (230V): 1000W
- halogen lamp load 12/24V with mech. transformer: 500W
- halogen lamp load 12/24V with elektr. transformer: 600W
- resistive load: 2300W
- engine load $\cos \phi 0.9$: 2800VA
- engine load $\cos \phi 0.5$: 2000VA

Connections

- Load circuit, mechanical: (plug-in screwless terminals)
- The following conductors / cross sections are permitted:
 - 0.5 ... 2.5 mm² single core or finely-stranded, ultrasonically sealed, 8 mm long
 - Insulation strip length 9...10 mm
 - 0.5 ... 2.5 mm² finely-stranded with plug connector, crimped and sealed
 - 0.5 ... 1.5 mm² finely-stranded with connector sleeve
 - 1.0 and 1.5 mm² finely-stranded, untreated
 - Insulation strip length 9...10 mm

- Load circuit, electrical:
 - Finely-stranded conductor, untreated, from 1 mm²: current carrying capacity of max. 6 A
 - Finely-stranded conductor with plug connector, crimped and sealed, from 1.5 mm²: current carrying capacity of max. 10 A
 - All other conductors from 1.5 mm²: current carrying capacity of max. 10 A
 - The load circuit should be fused with a 10 A circuit-breaking device (for miniature circuit-breakers - characteristic A or B)
- bus line:
 - pressure contacts on data rail
 - 0,6...0,8 mm Ø
 - remove approx. 5mm of isolation

Mechanical data

- Dimensions: 47 x 47 x 30 mm (W x H x D)
- Weight: approx. 65 g
- Fire load: ca. 871 kJ $\pm 10 \%$

Environmental conditions

- Ambient operating temperature: - 5 ... + 45 °C
- Storage temperature: - 25 ... + 70 °C
- Relative humidity (not condensing): 5 % to 93 %

Location and function of the display and operating elements

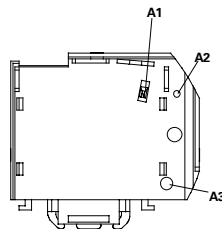


Diagram 1: Location of the display and operating elements

- A1 Contact pin for looping the switched L conductor of the function module UP 563 to the socket
- A2 LED for displaying normal mode (LED off) or addressing mode (LED on); it is automatically extinguished once the physical address has been transferred
- A3 Learning button for toggling between normal mode and addressing mode to transfer the physical address

Mounting and Wiring

- The device may be used for permanent indoor installations in dry rooms and for insertion in flush-type boxes.



WARNING

- The device may only be installed and commissioned by an authorised electrician.
- When connecting the device, it should be ensured that the device can be isolated.
- The device may be used in switch-sockets, provided that VDE approved devices are used.
- The prevailing safety and accident regulations must be observed.
- The function module UP 563 must be clipped onto the socket prior to connecting the socket.
- The device may not be opened.
- 10 A circuit-breaking device is necessary in any case
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

Description of the system

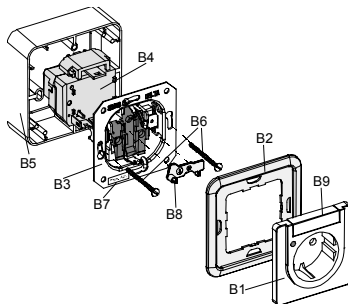


Diagram 2: Installation of the function module UP 563 and the switchable socket with operational display

- B1 Cup*
- B2 Frame*
- B3 Socket insert*
- B4 Function module
- B5 Spacing frame
- B6 Fixing screws
- B7 Label for physical address
- B8 Operational display*
- B9 Caption panel

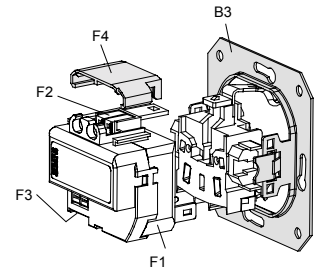
*= not included in the scope of supply

Installing EIB and 230V AC

Assembly sequence

- Clip the module UP 563 onto the socket insert
- Remove the bus terminal and insert the wire
- Slip on the bus terminal
- Press the bus cable with its sheath into the open cable anchorage slot
- Clamp on the cover F4 to establish a safe isolation between 230 V and EIB
- Remove a piece of insulation of the 230 V conductor and insert the wire into the terminal F3
- Install the whole unit UP 563 and socket insert onto the flush mounted box
- Stick the label B7 for the physical address onto the mounting hanger of the socket insert B3

Assembly of the function module



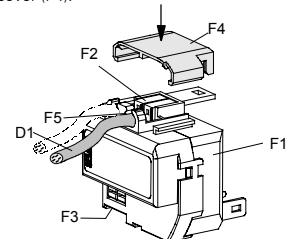
- F1 Function module UP 563
- F2 Bus terminal
- F3 L-conductor connection
- F4 Cover

Diagram 3a: Mounting the function module UP 563 F1 onto the socket insert B3

Carefully insert the screwdriver in the wire entry slot of the grey compartment of the bus terminal (F2) and pull the bus terminal (F2) forwards out of the function module (F1). Care should be taken not to damage the two test sockets (F2.3/ diagram 3c) either by accidentally connecting them to the bus conductor or with the screwdriver (when trying to remove the bus terminal).

Connecting the bus wire

- Press the sheath (diagram 3b) of the bus cable D1 into the open cable anchorage slot (F5) with an overshoot > 3 mm.
- Press the individual bus cores into the indentation and snap on the cover (F4).



- F1 Function module UP 563
- F2 Bus terminal
- F3 L-conductor connection
- F4 Cover
- F5 Cable anchorage slot
- D1 Bus cable

Diagram 3b: Installation of the bus cable

General Notes

- Any faulty devices should be returned to the local Siemens office.
- If you have further questions about the product, please contact our Technical Support:

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✉ adsupport@siemens.com