

Socket outlet switch wave S 564
5WG3 564-7AB11
Product and Applications Description


The socket outlet switch wave S 564 is an adapter plug for the remote control of electrical devices connected to socket outlets like floor lamps or radios by controlling a relay via radio frequency.

The socket outlet switch wave is a product from the range of GAMMA wave devices and therefore uses the standardized KNX RF protocol.

Besides the remote operation using RF switches (with function switching or scene control) or other RF sensors like smoke detectors or door contacts, the socket outlet switch wave can be controlled directly by a push button on the device. A LED indicates the actual switching status.

The commissioning of the socket outlet switch wave is carried out without any additional means via push button actions (Easy mode Push Button: EP).

There are two different operation modes for the socket outlet switch wave:

Normal function

- Operation of the integrated socket outlet locally
- Remote operation of the integrated socket outlet via RF switches or other RF senders

Special function

- Establishing connections with other radio control components
- Deleting connections with other radio control components

Operation

After a short operation of the push button (less than 10s) the local socket outlet is switched ON or OFF respectively.

After a long operation (at least 10s) the device is switched to special function mode. In this mode the socket outlet switch wave can be connected with other devices or an established connection can be released. If the push button is operated again long (at least 10s) while in special function mode, all connections with other devices will be deleted.

Installation Instructions
Caution:

- The device may be used in interior installations in dry rooms only.
- Occasionally the transmission range may be influenced by structural conditions (e.g. reinforced concrete) or electric / electronic sources of interference.
- A minimum distance of 0.5m must be maintained between the transmitter and the relevant receivers.
- Though the radio transmission is carried out in the safe 868MHz range, disruptions to the radio transmission cannot be excluded.
- The radio transmission is not suitable for security applications.


WARNING

- The device must not be opened.
- The device must not be combined with other adaptor plugs
- The prevailing safety and accident regulations must be observed.

Technical Specifications
Mechanical specifications

- Housing: plastic
- Mounting form: socket outlet adapter for countries using socket outlets with side grounding contacts (DIN norm)
- Dimensions (L x W x D): 12,8 x 7,2 x 7,5 cm (incl. contacts)
- Weight: approx. 140g

Power supply

Integrated power supply 230V AC +10% / -15%

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Connections

- socket outlet receptacle with side grounding contacts for the connection of any load up to 16A (resistive)
- socket outlet plug with side grounding contacts to be plugged in any socket outlet receptacle with side grounding contacts fused with at most 16A.

Breaking capacity

- socket outlet receptacle and plug connected via relay
- Rated voltage; AC 230 V, 50Hz
- Rated current: 16 A
- Switching cycles: > 20.000
if used with Incandescent lamps up to 1000W

Electrical safety

- Pollution degree (according to IEC 60664-1): 2
- Protection (according to EN 60529): IP 20
- Overvoltage category (according to IEC 60664-1): III
- Device complies with EN 60669-2-1 and IEC 60664-1

Electromagnetic compatibility

Complies with EN 60669-2-1, EN 301489, EN 300220

Environmental specifications

- Climatic conditions: EN 50090-2-2
- Ambient operating temperature: - 5 ... + 45°C
- Storage temperature: - 25 ... + 70°C
- Relative humidity (non-condensing): 5% to 93%

Approbation

VDE Approbation in preparation, complies

KNX - Standard

radio frequency wave

easy mode push button **EP**

CE Norm

Complies with EN 61058-1, DIN VDE 0620, DIN 49440 / DIN 4944, EMV-regulations (residential building), low voltage regulations and R&TTE-regulations:



The CE declaration can be inspected at:
SIEMENS AG
Siemensstraße 10
D-93055 Regensburg

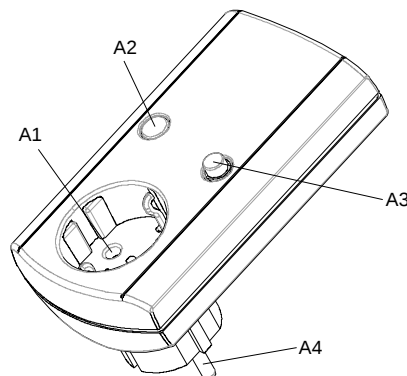
Frequency band

868 MHz (transmission is not susceptible to interference; frequency band reserved for system and security applications)

Range of radio control

approx. 100 m (applying to free field applications)

Location and Function of Display and Operating Elements

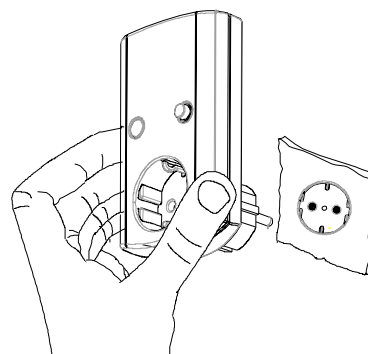


- A1 socket outlet receptacle with side grounding contacts
- A2 Status LED
- A3 Push button for local operation
- A4 socket outlet plug with side grounding contacts

Mounting and commissioning

Mounting: (Figure 2)

The socket outlet switch wave is plugged into a socket outlet receptacle manually. To avoid radio interference the socket outlet switch wave should be mounted in a way that the cable of the switched device does not run across the housing.



Dismantling:

Remove the socket outlet switch wave manually out of the socket outlet receptacle.

Socket outlet switch wave S 564**5WG3 564-7AB11**Commissioning:

The connection e.g. of a push button wave with the socket outlet switch wave is carried out by pressing the push button of the push button wave and the push button of the socket outlet switch wave. To do so, the special function must be set for the two devices which have to be connected with each other. The operating state and the successful connection are displayed by the LEDs of both devices.

Connection via radio control:

Connecting a push button wave to a socket outlet switch wave via radio control:

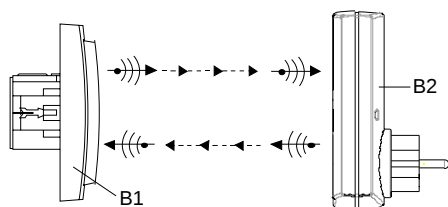


Figure 3:

B1 push button wave

B2 socket outlet switch wave

1. Socket outlet switch wave: Switch to special function (B2)

Action: Press the push button for at least 10 seconds.

Display: The LED begins to flash slowly (approx. once per second) after 10 seconds (switches to special function).

2. Push button wave: Switch to special function (B1)

Action: Press the push button rocker in the CENTRE for at least 10 seconds.

Display: The LED of the push button begins to flash slowly (approx. once per second) after 10 seconds (toggling to the special function).

3. Push button wave: Transmit a linking telegram (B1)

Action: Brief operation (up to 0.4 sec.) of the push button rocker at the TOP, CENTRE or BOTTOM.

Display: The LED of the push button wave flashes rapidly (3 times per sec.) for approx. 3 seconds if the connection has been established successfully. The LED is then extinguished and the push button exits the special function. The LED of the socket outlet switch wave flashes in the same way and the special function mode is terminated.

Note: There is only a limited period available for the connection as both devices exit the special function after 2 minutes.

The connection of the socket outlet switch wave with the push button wave is complete. When the push button wave is operated the socket outlet switch wave will be switched as well via the radio connection.

If the connection has failed (e.g. if the distance is too great), both devices exit the special function after approx. 2 minutes, without confirming the success of the connection by flashing rapidly.

This procedure must be repeated if the socket outlet switch is to be connected with other push buttons or sensors (up to 10 connections possible).

Procedure for deleting a connection:

Single connections can be deleted by reconnecting an already known device.

Deletion of the connection between a push button wave and the socket outlet switch wave:

1. Socket outlet switch wave: Switch to the special function
2. Push button wave: Switch to the special function
3. Push button wave: Trigger a linking telegram

The connection between the socket outlet switch wave and the push button wave is thereby deleted.

Deleting all connections and resetting to the supplied state:

1. Switch the push button wave to the special function.

Action: Press the push button for at least 10 seconds.

Display: The LED begins to flash slowly (approx. once per second) after 10 seconds (switches to the special function).

2. Reset the device

Action: Press the push button again for at least 10 seconds.

Display: The LED of the push button flashes rapidly (3 times per second) for approx. 3 seconds. The LED is then extinguished and the socket outlet switch wave exits the special function.

All connections in this device are deleted. The device is restored to its initial state.

Connections to the socket outlet switch wave in other devices are retained and must likewise be deleted.

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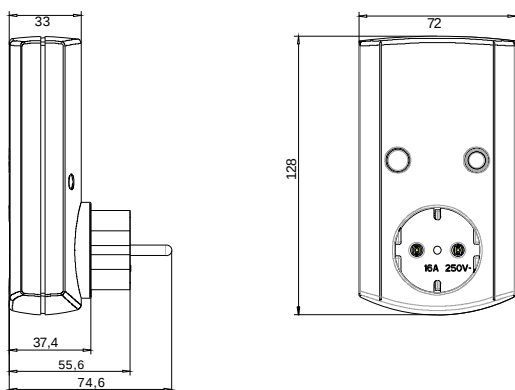
Exiting the special function:

If the socket outlet switch wave is operated in special function mode, this state is terminated by the following actions and switched back to normal mode.

1. Receipt of a linking telegram
2. Time out after 2 minutes (no push button actions are carried out and no linking telegrams are received for a period of two minutes).
3. Operation of the push button of the socket outlet switch wave for less than 10s.

Dimension Diagram

Dimensions in mm



General information

- Please send any defective unit to the responsible Siemens AG branch office.
- Our Technical Support service will advise you on any further product related questions:

☎ +49 (0) 180 50 50-222

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🌐 www.siemens.com/automation/support-request