

# Important safety instructions for wireless switches

## 1. General information

Electrical devices, packaging material, batteries, etc. are not toys and do not belong within the reach of children. Packaging and wearing materials must be disposed of in an environmentally friendly manner.

## 2. Important Safety Instructions:

- Read the operating instructions carefully and keep them. Only pass the product on to other people together with the operating instructions.
- If you do not observe the safety instructions and information in these operating instructions, we are not liable for any injuries or property damage that may result. In addition, the warranty/guarantee expires in such cases.
- The product is not a toy. Keep the device, accessories and packaging away from children.
- Handle the product with care. It can be damaged by bumps, hits or falling from a small height.
- Download the current manual [www.diw-gmbh.de/diw-punkt/DP\\_download.html](http://www.diw-gmbh.de/diw-punkt/DP_download.html)
- Contact with moisture must be avoided at all costs. Protect the product from extreme temperatures, direct sunlight, strong shocks, high humidity, moisture, vapors and solvents.
- For safety and regulatory reasons, you may not convert and/or modify the product. If you use the product for purposes other than those described above, the product may be damaged. Improper use can also result in dangers such as short circuits, fire, electric shock, etc.
- If safe operation is no longer possible, take the product out of service and protect it from unintentional use. Safe operation can no longer be guaranteed if the product shows visible damage, no longer works properly, has been exposed to unfavorable environmental conditions or has been subjected to transport loads.
- Operate only in dry interior rooms!
- Connection and installation only by an authorized electrician! (230V, danger to life!)
- Before making the electrical connection, switch off the power supply, check and make sure that it is not accidentally switched on.
- **For all radio switches and radio adapter plugs** (hereinafter referred to as wireless switch) applies:
  - **Do not connect radio plugs one after the other!**
  - A radio switch must always be easily accessible. The socket for the power supply must be close to the device to be switched and connected properly.
  - The wireless switch must not be covered with objects such as paper, fabric, curtains, etc. Otherwise it could lead to dangerous heat build-up. Operating in confined, unventilated areas (cupboards, boxes, etc.) is also not permitted. All objects should be at least 10 cm away.
  - The wireless switch must not be exposed to dripping or splashing water.
  - Do not drop the wireless switch. A fall could damage components.
  - In any case, it must be checked whether the device is suitable for the respective place of use.
  - Do not open the housing! Do not try to repair yourself, otherwise the approval will expire immediately!
  - Observe the permissible maximum output (W) of the connected device.

## Preparations and safety instructions for the installation of wireless built-in switches

- The wireless flush-mounted switch must be installed and operated in a suitable flush-mounted box or surface-mounted box or in another suitable housing.
- Only use the wireless flush-mounted switch if it is permanently installed.
- The wireless flush-mounted switch must be disconnected from the power supply during installation. To do this, switch off the electrical mains supply by switching off the corresponding circuit breaker or removing the fuse. Secure it against unauthorized restarting, e.g. B. with a danger sign.
- Also switch off the residual current circuit breaker in order to completely disconnect the mains supply from the mains voltage.
- Use a suitable test device to check whether the mains supply is de-energized.
- **Die allThe rules of electrical engineering must be observed in any case.**

## Electrical and electronic equipment Information for private households, environmental protection

Manufacturer information according to § 18 paragraph 4 ElektroG (new)

The Electrical and Electronic Equipment Act (ElektroG) contains a large number of requirements for the

Handling electrical and electronic equipment. Here are the most important regulations that apply to you:

- Separate collection of old devices

Electrical and electronic equipment that has become waste is known as waste equipment and must be disposed of separately, which means that this product must not be disposed of with normal household waste at the end of its service life, but must be taken to a collection point for the recycling of electrical and electronic equipment. This is indicated by the crossed-out wheeled bin symbol on the product, instructions for use or packaging.



With the reuse, material recycling or other forms of recycling

By disposing of old devices, you are making an important contribution to protecting our environment.

Please inquire at

the municipal administration the responsible disposal point.

- Batteries and accumulators as well as lamps

Owners of old devices have old batteries and accumulators that are not installed in the old device, usually separated from the old device before handing it in at a collection point.

- Possibilities of returning old devices

Owners of old devices from private households can hand them in free of charge to the collection points of the public waste disposal authorities or to the take-back points set up by manufacturers or distributors within the meaning of the ElektroG.

There is also the possibility of free return at collection points

Distributors regardless of the purchase of a new device for such old devices that have no external are larger than 25 centimetres, limited to three old devices per type of device.

**4. Guarantee, guarantee:** Legal regulations apply. There is none  
Warranty claims for damage caused by non-observance of the operating instructions (abbreviated and online instructions) arise. Liabilities or further claims, in particular personal injury or damage to property caused by replacement outside of the device or faulty functions are excluded.

## Current and detailed information on the Internet:

►► [https://www.diw-gmbh.de/FAQ\\_index.html](https://www.diw-gmbh.de/FAQ_index.html) ◀◀

DIW-GmbH hereby declares that the „**DIW-Funk**“ Radios DES-2300, DES-2300S and DED-100 (RSW887R | RSW882R-B | RSW887RD-E) in are in accordance with the basic requirements and other relevant provisions of Directive 2014/53/EU.

Declarations of Conformity online at: [https://www.diw-gmbh.de/DIW-Punkt/DP\\_Download.html](https://www.diw-gmbh.de/DIW-Punkt/DP_Download.html)

Errors, changes in design and technical data without prior notice remain in

Subject to constant product improvements (06-2022). Made in China.

Importer:

DIW Dipl.-Ing. Weber office equipment GmbH,

Balanstrasse 89b, 81539 Munich.

WEEE-Reg.-Nr.: DE47592106

LUCID-Reg.No.: DE4746603811223



Description of the devices, compatibility lists, FAQs and certificates can be found on the manufacturer's website ► <https://www.diw-gmbh.de/DIW-Funk> ◀

# operation manual- Switch + dimmer



DES-2300, DES-2300S (RSW887R) RSW882R-B) **Dimmer:** DED-100 (RSW887RD-E)

**Intended Use:** The radio flush-mounted switches are used in combination with a suitable radio transmitter from the DIW radio system for wireless switching on and off or dimming (only model DED-100) a connected consumer\*.

The wireless flush-mounted switch is only suitable for mains voltage operation (230 V/AC, 50 Hz). It requires phase "L" and neutral conductor "N" to operate. With type DES-2300 and DES-2300S the maximum switching load is 2300 W (resistive load) or 300 W (inductive load).

**Der Funk-Dimmer DED-100** can also dim easily dimmable lamps. The maximum switching load here is 150 W (resistive load) or 60 W (inductive load). Also suitable for LEDs.

**\*Info:** Consumers with a predominantly ohmic load are e.g. light bulbs, heaters, etc. Devices with inductive loads are e.g. B. motors, ballasts, conventional transformers, energy-saving lamps, light sources, LEDs, etc.

The **DES-2300S** model is ideal to use a conventional Wall switch to be supplemented with an additional wireless switching function. The existing wall switch is retained, but can also be switched wirelessly with a compatible radio remote control.

This assumes that the flush-mounted box offers enough space to install the wireless flush-mounted switch behind the existing wall switch and that "L" and "N" are available.

**Observe the safety instructions for the preparations for the installation!**

## Installation and connection all models

- strip the cable (solid conductors only) at least 7 mm and connect the wires as shown in the adjacent figures.
- make sure the terminals are properly tightened and no bare wire is visible.
- Suitable wire size for the terminal is 0.75mm<sup>2</sup>~ 2.5mm<sup>2</sup>
- Connect a maximum of 1 wire with 2.5 mm<sup>2</sup> wire to each terminal!
- Connect the consumer to the two middle screw terminals.  
The "N" connection is the neutral conductor, the "X" connection is the "L" phase of the switching output.

The two outer screw terminals are used to connect to the mains voltage ("N" = neutral conductor, "L" = phase).

- The radio receiver can be attached using the lateral straps.
- The radio receiver is inserted in a flush-mounted box or surface-mounted box.
- Make sure that the button on the back of the housing is exposed during assembly and is not pressed accidentally.
- The button on the back of the housing is used to "teach" the switch to the radio transmitter that is to operate the switch and must therefore remain freely accessible.

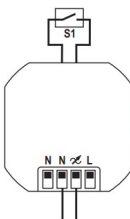
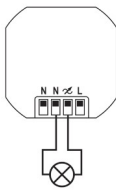
additional connection to the wall transmitter (only model DES-2300S with 2 cables)

- Unclip the wall switch cover and remove the wall switch from the flush-mounted box.
- Connect the two cables of the wireless receiver to the two switching contacts of your wall switch ("S1"), see image on the right.

You can then also operate the switch via the mechanical wall switch.

**Do not apply voltage to the two external cables. That will destroy the switch!**

**=> this is how you pair the radio receiver with a hand-held or**



## wall-mounted transmitter:

-> the dimmer should be in the "OFF" state for learning and deactivation.

- 1.) Press and hold the receiver's learn button (more than 3 seconds) until the LED next to the button flashes. The switch is now in learning mode for approx. 15 seconds.
- 2.) During this time (LED flashes), hold down the "ON" button on the hand-held or wall-mounted transmitter (longer than 3 seconds) until the LED stops flashing and stays on.
- 3.) The transmitter is now learned and the programming mode is exited automatically. If you want to learn more receivers, start again at point 1. You can learn up to 10 different transmitters so that you can switch from different places

The programming mode is also activated (LED flashes) when the mains voltage is connected (e.g. during initial commissioning). A radio wall transmitter or a radio remote control can now be taught in within approx. 15 seconds.

## => How to delete the code of a hand-held or wall-mounted transmitter:

-> the receiver should be in the "OFF" state for deletion.

- 1.) Press and hold the receiver's learn button (more than 3 seconds) until the LED next to the button flashes. The switch is now in learning mode for approx. 15 seconds (ends automatically).
- 2.) During this time (LED flashes), press the "OFF" button on the hand-held or wall-mounted transmitter (longer than 3 seconds) until the LED goes out. The code has been successfully cleared.

## Service:

**With handheld or wall transmitter:** To turn on/off, press the ON/OFF button.

## With window contact switch (e.g. for exhaust air controls)

Move the magnet away from the transmitter body to turn it on and move the magnet toward the transmitter body to turn it off. The function can also be reversed on the transmitter.

## Switching on and off using the button on the built-in wireless switch

For a function test, the wireless built-in switch can also be switched on (LED is on) or off (LED is off) by briefly pressing the button on the receiver.

## Dimming function with handheld or wall transmitter – only for model DED-100 (built-in dimmer)

- Press the "ON" button to switch on the light in the last saved brightness.
- If you press the "ON" button again, the light will get darker and brighter again until you press "ON" again. This new brightness is then stored.
- If you press "OFF", the light goes out, but the last brightness level remains saved.

**Dimming directly on the built-in receiver:** Press the receiver's button to turn on the light, then hold the button 3 seconds to select the Activate dimming mode and release the button when the desired brightness is reached.

Technical specifications.....**DES-2300**(Switch)  
Battery type ..... CR2032 (included)  
Operating voltage..... 230V/50Hz  
Max. switching capacity...: 2300W (resistive load)  
300W (inductive load)

**DED-100** (Dimmer)  
CR2032 (included)  
230V/50Hz  
150W (ohmsche Last)  
60W (inductive load)  
0° to 35°C  
and  
0° to 35°C  
433.92 MHz  
48,5 x 48,5 x 25 mm

Ambient temperature: 0° to 35°C  
Dimmer function.....: no

Transmission frequency .....: 433.92 MHz  
Dimensions (WxHxD): 48.5 x 48.5 x 25mm

Suitable for all - tran **DIW-Funk** any compatible brands.

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