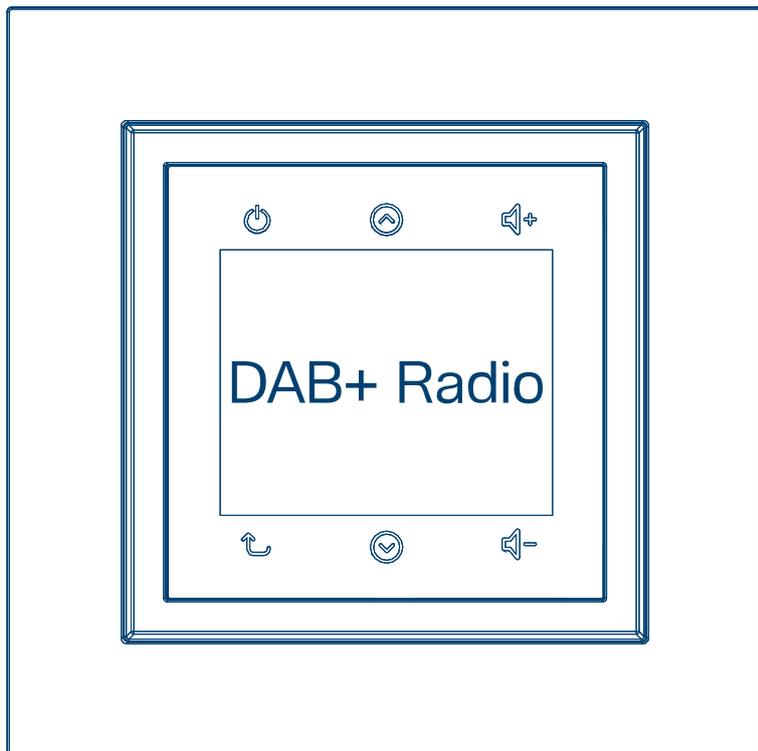


Switch ranges

Radio Touch DAB+



Radio Touch DAB+ (with loudspeaker)

WAN6010xx, WAN6011xx

Radio Touch DAB+ Bluetooth (with loudspeaker)

WAN6110xx, WAN6111xx

CE

1	Safety instructions.....	3
2	Design and layout of the device.....	4
3	Function.....	5
3.1	Correct use.....	5
4	Operation.....	6
5	Information for qualified electricians.....	13
5.1	Installation and electrical connection.....	13
6	Radio commissioning.....	18
7	Appendix.....	19
7.1	Technical data.....	19
7.2	Accessories.....	19
7.3	EU Declaration of Conformity.....	19
7.4	Disposal note.....	20

1 Safety instructions

Electrical devices must only be installed and assembled by a qualified electrician in accordance with the relevant installation standards, guidelines, regulations, directives, safety and accident prevention directives of the country.

Hazard due to electric shock. Disconnect before working on the device or load. Take into account all miniature circuit breakers that supply dangerous voltages to the device or load.

Failure to comply with these installation instructions may result in damage to the device, fire or other hazards.

2 Design and layout of the device

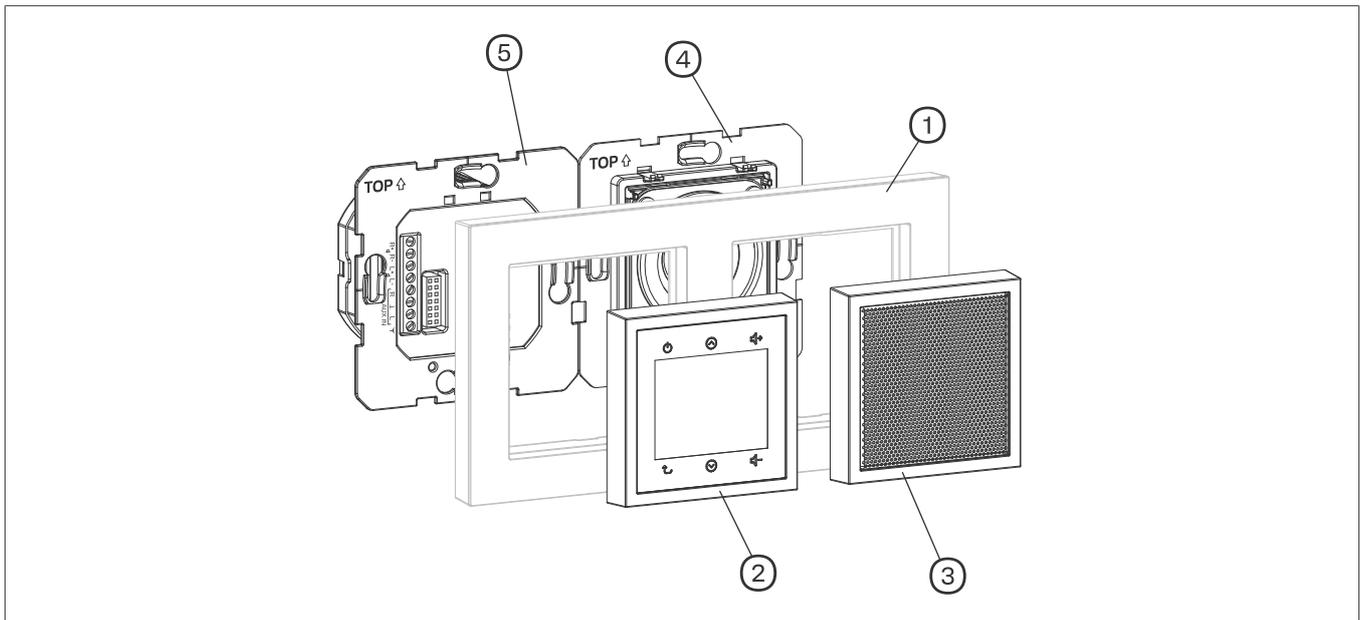


Fig. 1: Design and layout of the device

- ① Frame 2gang
- ② DAB+ radio application module
- ③ Centre piece for loudspeaker
- ④ Loudspeaker insert
- ⑤ DAB+ radio insert



Note

Depending on the variant, the scope of delivery for the radio set includes loudspeaker, design parts and fastening screws.

3 Function

The radio receives FM and DAB radio stations, can be streamed with Bluetooth audio devices and emits the audio signals via the connected loudspeakers.

Additional functions:

- Capacitive touch display
- Manual and automatic station search
- 8 FM and 8 DAB memory slots
- Display of reception frequency and RDS information
- Display of time and date in standby mode
- Automatic date and time setting on RDS reception
- Alarm with radio or acoustic signal
- Timer (countdown) with acoustic signal when expired (also during radio reception)
- Sleep mode with automatic switch-off
- Hotel mode with limited functions can be activated.
- Display brightness can be adjusted in 10 stages and with 8 times, black-and-white display can be inverted
- Connection for extension units, e.g. for switches, controllers etc.
- **AUX-IN** for external audio sources, e.g. smartphone or MP3 player to multimedia socket outlet

3.1 Correct use

- Only suitable for use in indoor areas
- Flush-mounted installation in wall box according to DIN 49073
- Radio and loudspeaker each mounted in a wall box

4 Operation

The radio is operated solely via touch control panels. The touch surface Fig. 2 has a display and six symbol buttons.

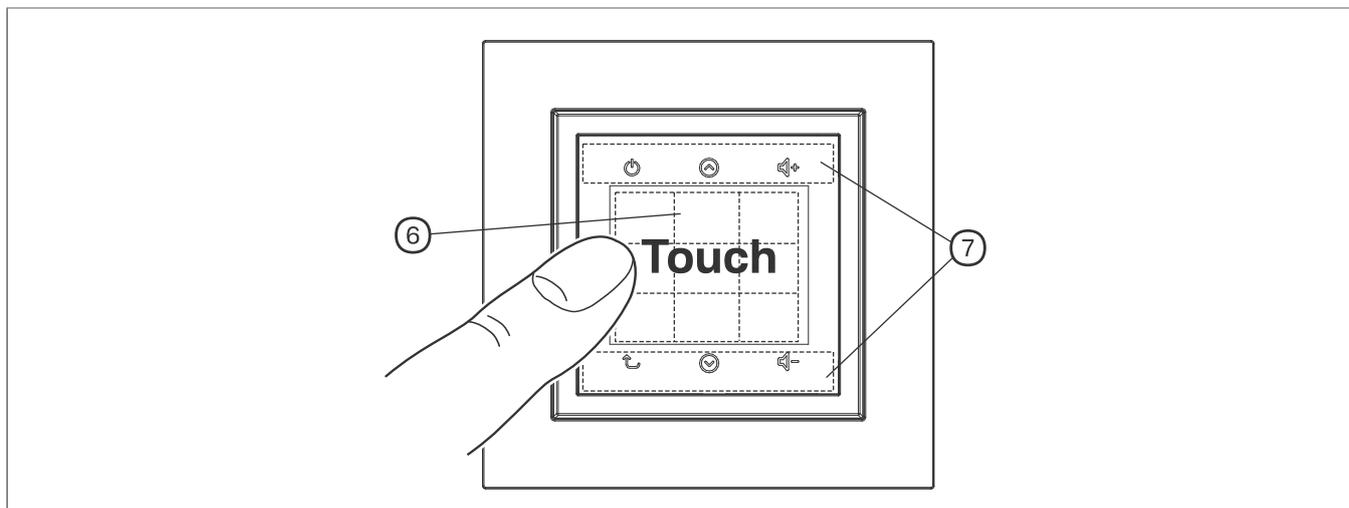


Fig. 2: Touch surface

- ⑥ Touch display
- ⑦ Touch symbol buttons

Depending on the display type, the touch display is divided into up to nine control panels or shows a multi-line menu.

The six symbol buttons have fixed functions:

Symbol button	Function
⏻	Switch on/switch off
↶	Jump back to the higher-level operating level
⏴	Scroll up / increase value
⏵	Scroll down / decrease value
🔊+	Increase volume
🔊-	Decrease volume

Switching on the radio

- ☑ The radio is in standby mode, the time and date are displayed.
- Touch the display or button ⏻.
The radio plays the most recently selected station or switches back on the last function used.



Note

In FM and DAB radio operation, details such as station type, name and frequency, song title, memory slot and type of playback are displayed, otherwise the function is displayed.

Selecting menu item

- ☑ The radio is switched on.
- Press the button ↶ to go to the main menu [Fig. 3](#).



Fig. 3: Main menu

- Touch the button ☰ / ☷ or the display.
The active display in the central operating panel that is displayed in bold changes.
- Touch the active display with the desired menu item.
A new menu opens.

**Note**

Longer lines of text are shown in a loop with a one-second delay.

Operation

Configuring settings

- ☑ The menu item is selected, e.g. **Countdown**. The first setting is active, e.g. hours **Hrs**.
- Use the ⏸ / ⏹ button to set the desired number.
- Using the control panel, apply the number of another setting, e.g. **Min** or **Sec**, or save the settings with ☑ Fig. 4.

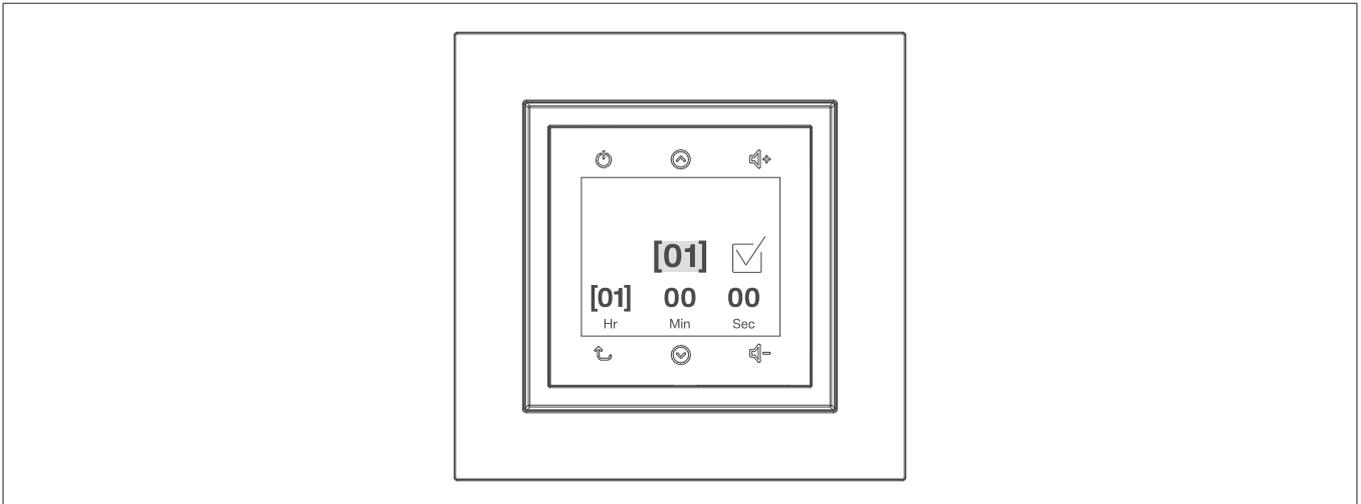


Fig. 4: Configuring settings

- Adjust other settings accordingly.



Note

The active setting is displayed in square brackets.

Adjusting volume

- ☑ The radio is switched on.
- Press the 🔊+ / 🔊- button.
The sound is played back louder/quieter.



Note

Alternatively, simply swipe up or down on the displayed volume bar during the setting.

Press the control button 🔊, Press the control panel to switch to mute during volume setting.

Setting the date and time manually

- ☑ The radio is switched on.
- Press the button  to go to the main menu [Fig. 3](#).
- Select the **Alarm and time** control panel using the  /  buttons.
- Select **Date/time** with  /  and press.
- **Manually** select with  /  and press.
- Use  /  to select the date format **EU/US** and confirm by pressing another control panel, e.g. **Year**.
- Select the year using  /  and confirm by pressing **Month**.
- Select the month using  /  and confirm by pressing **Day**.
- Select the day using  /  and confirm by pressing **Hour**.
- Select the hour using  /  and confirm by pressing **Min**.
- Select the minutes using  /  and save all settings by pressing .

Setting the DAB stations

- ☑ The radio is switched on.
- Press the button  to go to the main menu [Fig. 3](#).
- Select control panel **DAB+ Radio** using  /  and press.
The most recently set station is played back and shown on the display.
- Use  /  to select the saved station and confirm by pressing.

or:

- Use  to go up one level and use  /  to select **New station** and press.
The first station in the station list is played back and shown on the display.
- Select another station in the station list using  / .

or:

- Save the station ([Saving stations](#)).

Setting an FM station with automatic search

- ☑ The radio is switched on.
- Press the button  to go to the main menu [Fig. 3](#).
- Select control panel **FM Radio** using  /  and press.
- Select control panel **Automatic search** using  /  and press.
The first station to be found will be played back and shown on the display.
- Press  to continue the automatic search without saving.

or:

- Save the station ([Saving stations](#)).

Operation

Setting an FM station with manual search

- ☑ The radio is switched on.
- Press the button  to go to the main menu [Fig. 3](#).
- Select control panel **FM Radio** using  /  and press.
- Select control panel **Manual search** using  /  and press.
- Increase/decrease the reception frequency with  /  in 0.1 MHz steps until a station is received without interference.
- Press  to continue the manual search without saving.

or:

- Save the station ([Saving stations](#)).

Saving stations

- ☑ The station you are looking for is played back.
- Press the station display on the control panel.
- Press **Save**.
- Select **New station** using  /  and press it to save.

or:

- Select the saved radio station using  /  and press to overwrite.

Opening a saved station

- ☑ The radio is switched on.
- Press the button  to go to the main menu [Fig. 3](#).
- Select control panel **FM Radio** using  /  and press.
- Use  /  to select the saved station and confirm by pressing.

Deleting stations

- ☑ The station to be deleted is played back.
- Press the control panel with the station display.
- Press **Delete** to free up this storage slot.

Connecting audio devices via Bluetooth

This is only available in the radio with Bluetooth function.

A maximum of eight Bluetooth devices can be stored. Only one of them can be connected at a time.

- ☑ The radio is switched on.
- Press the button  to go to the main menu [Fig. 3](#).
- Select control panel **Bluetooth** using  /  and press.
- Select control panel **Connect** using  /  and press.
The display shows **Connect**.
- Establish the Bluetooth connection on the audio device.
The radio plays the audio signals sent by the audio device.

Setting the alarm

- ☑ The radio is switched on.
- Press the button  to go to the main menu [Fig. 3](#).
- Select the **Alarm and time** control panel using the  /  buttons.
- Select **Alarm** using  /  and press.
- Select **ON** using  /  and press.
- If necessary, switch to **24h/AM/PM** display.
- Press the time to be set (hours, minutes). Set the time using  /  [Fig. 4](#).
-  Press and select a radio station or the electronic alarm signal using  /  and press to confirm.
- Apply the settings using .



Note

When the alarm clock is activated and the radio is switched off, the alarm clock symbol  is displayed.

Alarm operations can be stopped using  or shifted by 5 minutes (snooze) by pressing another control panel.

Setting timer (countdown)

- ☑ The radio is switched on.
- Press the button  to go to the main menu [Fig. 3](#).
- Select the **Alarm and time** control panel using the  /  buttons.
- Select **Countdown** using  /  and press.
- Press the time to be set (hours, minutes and seconds). Use  /  to set the time shown in brackets [Fig. 4](#).
- If necessary, set additional times.
- Confirm the time setting with  and activate the countdown.

After the time has elapsed, an acoustic signal will sound - even if the radio is on.



Note

The **Sleep Mode** function can be set in the same way.

Setting the language

- Press the button  to go to the main menu [Fig. 3](#).
- Select control panel **Settings** using  /  and press.
- Select **language** using  /  and press.
- Select the appropriate language using  /  and press.



Note

The **Lighting**, **Factory settings** and **Audio** functions can be set in the same way.

Operation

Setting to external audio device (AUX IN)

- Press the button  to go to the main menu [Fig. 3](#).
- Select control panel **External input** using the  /  buttons and press.

Activating/deactivating hotel mode

- The radio is switched on.
- Press and hold the button  and  for 10 seconds.
The display shows **Hotel mode On** and the menu only offers the menu items **FM radio**, **DAB+ radio**, **Bluetooth** and **Alarm**.

5 Information for qualified electricians

5.1 Installation and electrical connection



Danger

Electric shock when live parts are touched!

An electric shock can lead to death!

- Isolate all connection cables before working on the device and cover any live parts in the area!



Attention

This product contains electrostatically sensitive components.

The device may get damaged!

- When installed, do not touch the connection socket of the flush-mounted insert.

Connecting radio to lead **Fig. 5**

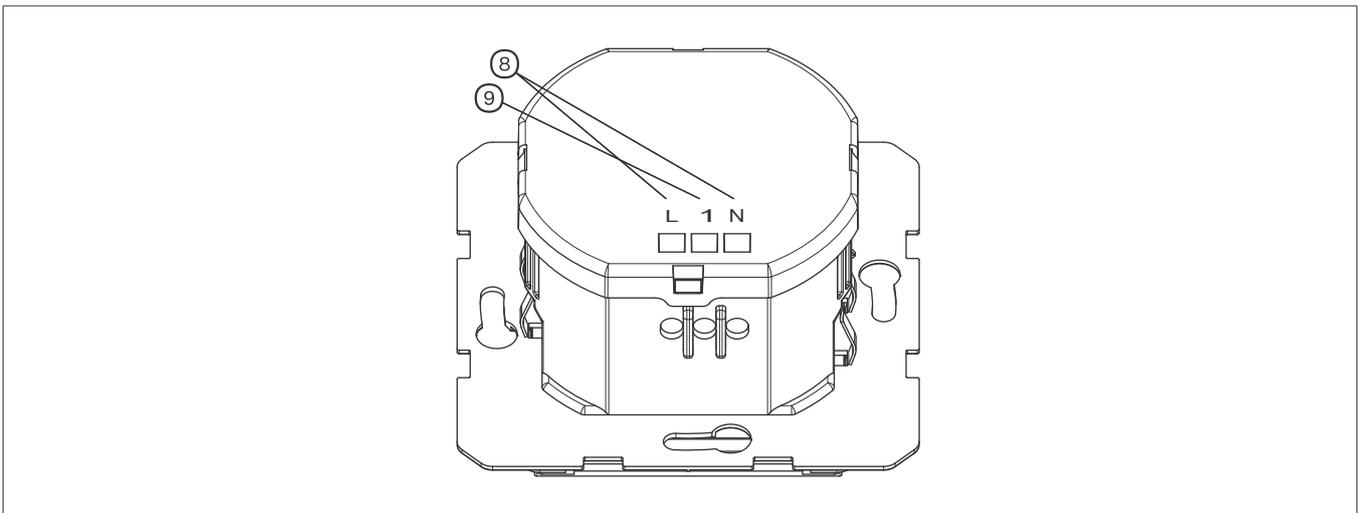


Fig. 5: Connecting radio to lead

- ⑧ 230 V~ lead
- ⑨ Extension unit

The lead is protected by means of a miniature circuit breaker (max. 16 A).

- Connect the 230 V~ lead to the **L** and **N** terminals (8).

Connecting extension unit (optional)

- If necessary, connect the extension unit to terminal 1 (9).



Note

Switches, controllers and timers are suitable as extension units. Use the same phase as for the radio Fig. 6.

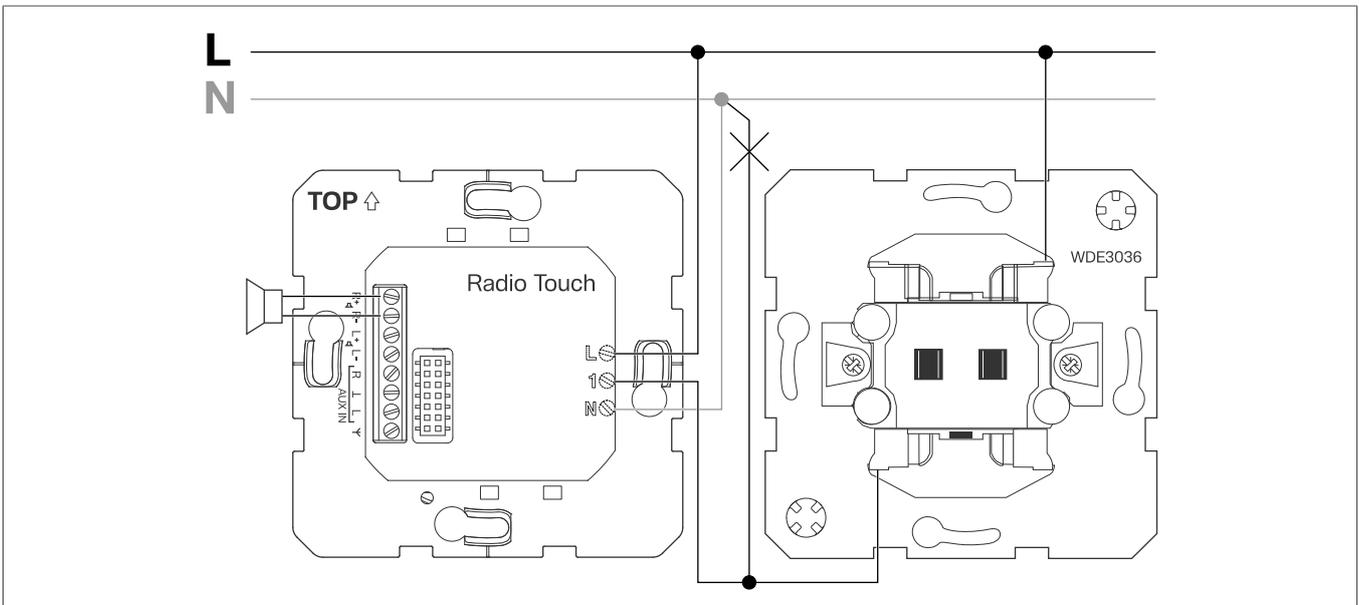


Fig. 6: Connection of extension unit



Note

Do not connect the load cable directly to the extension unit terminal but connect it directly to the switch or in connector boxes.

Interference pulses can occur when connecting electronic transformers, ballasts, energy-saving and LED lights to the extension unit input. We recommend wiring the extension unit input with a separate contact e.g. with a 2-pole switch or additional relay.

Connecting loudspeakers



Danger

If the loudspeakers are connected to the operating voltage in a shared cable, the operating voltage can reach the loudspeaker cables. Electric shock possible when touching the loudspeaker cable.

An electric shock can lead to death!

- Route a separate loudspeaker cable.

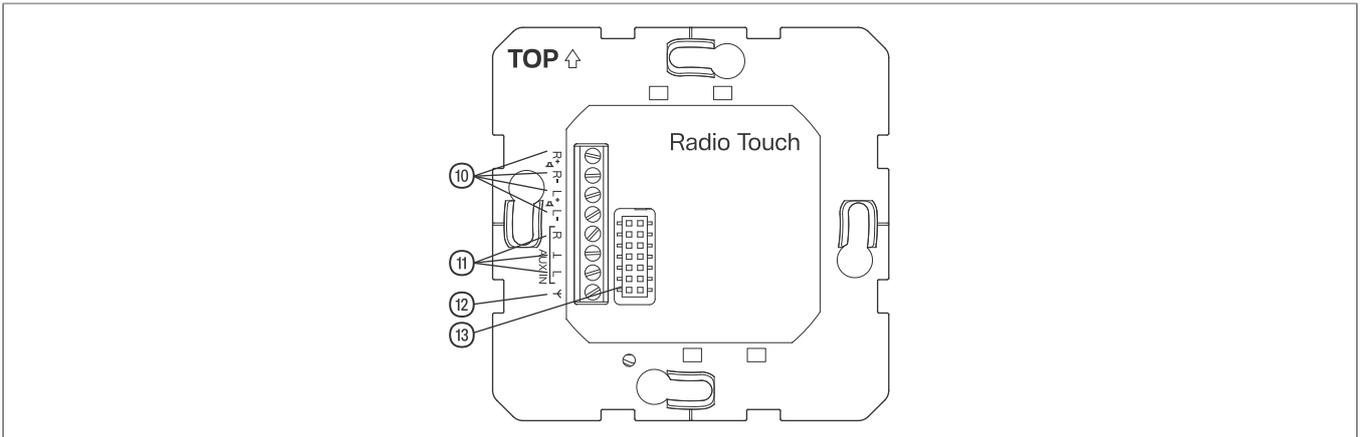


Fig. 7: Connections on the radio insert

- ⑩ Speaker **L, R**
- ⑪ Extrnal audio devices **AUX-IN**
- ⑫ Antenna
- ⑬ Radio application module (12-pole jack)

At least one loudspeaker must be connected for radio operation.

- Connect the loudspeaker to the $\varnothing+$ (red) and $\varnothing-$ (white) terminals (10).



Note

Cables must be mounted in the wall box in such a way, e.g. with cable ties, that a detached cable will not touch another potential in the event of a fault.

In stereo mode with two loudspeakers Fig. 8, the control panel with the station display can be used to switch manually to mono operation.

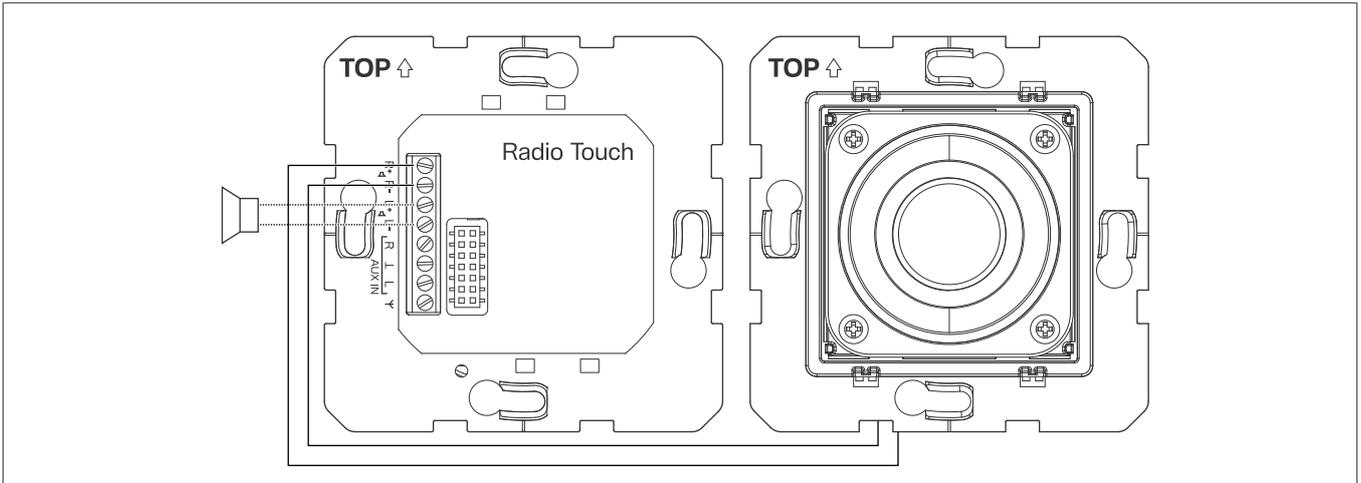


Fig. 8: Connections with 2 loudspeakers

Connecting external antenna

For standard FM and DAB+ reception, the radio must be operated with an external antenna wire connected to the terminal Ψ .



Note

Recommended length of antenna wire for optimised DAB+ reception:
40 cm (equivalent to a $\lambda/4$ dipole).

Recommended length of antenna wire for both FM and DAB+ reception:
75 cm (equivalent to a $\lambda/2$ dipole for DAB+)

Recommended conductor cross-section: 0.75 mm²



Attention

The wire and the tip of the antenna must be fully insulated from the terminal point!

- Prepare the insulated antenna wire and connect it to the terminal Ψ (12).



Note

Recommendation: Lay in a separate installation tube, stretched out, not parallel to other lines.

The antenna wire must be mounted in such a way within the wall box, e.g. with cable ties, that a detached wire will not touch another potential in the event of a fault.

Connecting external audio device (optional)

- Connect an external audio device to **AUX IN**, if necessary (11).

**Note**

Use shielded wires for interference-free signal transmission. Connect the shield to the terminal ⊥ according to the terminal labelling.

Mounting of the devices Fig. 1

- ☑ The inserts are connected.

- Insert the inserts (4) and (5) correctly into the wall boxes and fasten them with the screws provided.
- Place the 2-gang frame (1) over the inserts and attach the Radio Touch application module (2) and the loudspeaker centre piece (3).

**Note**

Carefully guide the contact pins on the radio application module into the socket (13) on the insert without bending them.

Mount the Radio Touch and loudspeaker separately with two 1-gang frames or in combinations.

In combinations or in the immediate vicinity of electronic devices (e.g. ballasts), radio reception can be disturbed. Before installation at the mounting location, put the radio into operation and test it for interferences. In case of interference, increase the distance to the source of interference.

6 Radio commissioning

The radio is mounted.

- Switch on the operating voltage.
- Select the required language from the list and press to confirm.

A list of all DAB+ stations received is automatically created and the date and time are updated.



Note

If no station is received, select **Manual** ([Setting the date and time manually](#)).

When using 2 loudspeakers, both speakers must be activated under **Settings, Audio**.

7 Appendix

7.1 Technical data

Radio touch DAB+

Operating voltage	230 V~, 50/60 Hz
Rated current	0.2 A
Power consumption at rated output power	7 W
Standby mode	< 1 W
Music rated output power (sine) per channel	2.1 W at 4 Ω @ 0.5% THD 1 kHz 1.5 W
Loudspeaker impedance	4 ... 8 Ω/channel
Input impedance AUX IN	10 kΩ
Frequency range DAB+	174 ... 240 MHz
Frequency range FM	87.5 ... 108 MHz
Operating temperature	5 ... 40°C
Degree of protection	IP20
Built-in depth	33 mm
Screw connection terminal:	
Mains supply	Max. 2.5 mm ²
Loudspeaker/AUX	Max. 1 mm ²
Cable lengths:	
Loudspeaker	Max. 20 m
AUX IN	Max. 3 m
Extension units	Max. 50 m
Only for radios with Bluetooth[®][1] function:	
Bluetooth transmission frequencies	2.4 ... 2.483 GHz
Bluetooth version	4.2
Range inside	Max. 10 m
Bluetooth transmission power	Max. 10 mW

[1] The Bluetooth[®] word mark and logos are registered trademarks of Bluetooth SIG Inc. Any use of these marks by Hager are subject to licensing. Other trademarks and brand names are the property of the respective owners.

Loudspeaker (WAN6211xx)

Loudspeaker impedance	4 Ω
Sinusoidal power/music power	3/4 W
Frequency range	170 Hz ... 18 kHz
Built-in depth	35 mm
Pre-assembled cable length	Approx. 25 cm

7.2 Accessories

Loudspeaker	WAN6211xx
USB/3.5 mm audio socket outlet	WAF4381xx

7.3 EU Declaration of Conformity

Berker GmbH & Co. KG hereby declares that the radio system type Radio Touch DAB+ is in compliance with Directive 2014/53/EU. The complete text of the EU declaration of conformity is available at the following Internet address: hager.com

The device may be operated in all EU and EFTA states (excluding Switzerland and Liechtenstein).

7.4 Disposal note



Correct Disposal of this product (Waste Electrical & Electronic Equipment).

(Applicable in the European Union and other European countries with separate collection systems).

This marking shown on the product or its documentation indicates that it should not be disposed of with other household waste at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this device from other types of waste. Recycle the device responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this device for environmentally safe disposal.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.

Usable in all of Europe,  except Switzerland and Liechtenstein.



Berker GmbH & Co. KG

Zum Gunterstal

66440 Blieskastel

Germany

T +49 6842 945 0

F +49 6842 945 4625

info@hager.com

hager.com