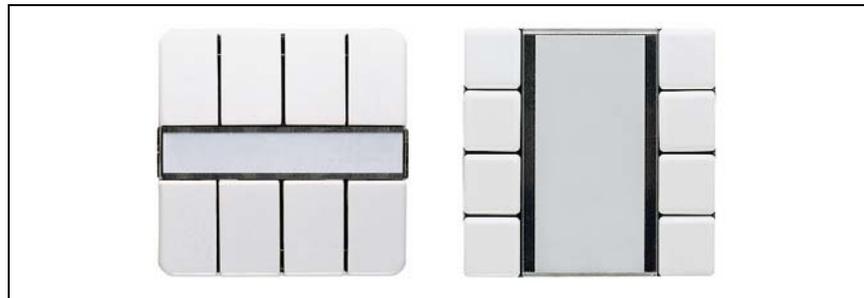


Standard/Universal Touch Sensor, Single, Twofold, Fourfold

Universal radio-control Touch Sensor, Fourfold

Light Scene Touch Sensor, Eightfold



1. Function

When depressed, pushbutton sensors transmit data telegrams on the *instabus* EIB triggering switching, dimming or shutter control functions in the respective actuators, recalling or storing lightscapes and set dimming, brightness or temperature values.

Functions for pushbutton sensors 'Standard' 1-channel, 4-channel (207xNABS)

Switching, dimming, blind/shutter control, transducer, recalling and storing of lightscapes. Can also be used within the JUNG-Funk-Management system.

Key functions in the JUNG-Funk-Management system:

left / upper keys: on / brighter / up

right / lower keys: off / darker / down

Further information can be found in the technical documentation of the radio-control wall-mounted transmitter.

Functions for pushbutton sensors 'Universal' 1-channel, 4-channel (209xNABS)

For each key separately programmable:

Switching • toggling • dimming (double-rocker operation) • dimming (single-rocker operation) blind/shutter control • dimming value transmitter • brightness value transmitter (0 ... 1500 lux) • temperature value transmitter (0 ... 40°C) • recalling lightscapes • storing lightscapes

Additional functions for radio-control pushbutton sensor 'Universal' 4-channel (2094F)

• can be remote-controlled from radio handheld transmitters 'Standard', 'Komfort', 'Mini' and with wall-mounted radio-control transmitter (insert + flat-type) • max. 8 radio-control channel keys or 7 radiocontrol channel keys + lightscape function programmable

The All-OFF / All-ON function of the transmitters and the master dimming key of the handheld transmitter 'Komfort' are not supported.

- ① For technical reasons, the programmable pushbutton function times of the sensor are not available when Funk-Management transmitters are used.

Functions for lightscape pushbutton sensor 8-channel (2094LZ)

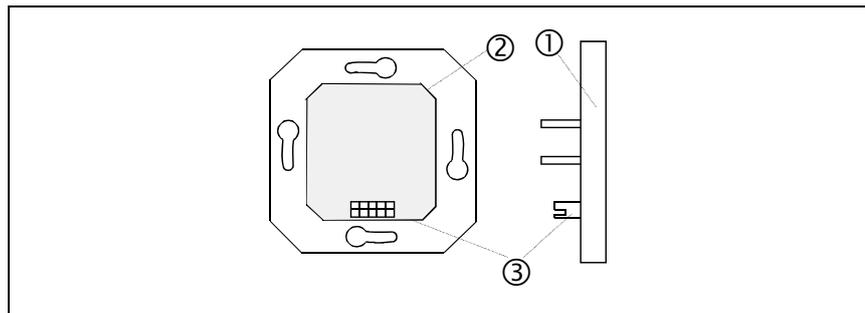
- each group of a lightscape can be locked if required
- lightscapes can be cascaded with other lightscape pushbutton sensors
- changing over between switching / dimming mode (single-button operation) with the 'three-key code'

2. Safety instructions

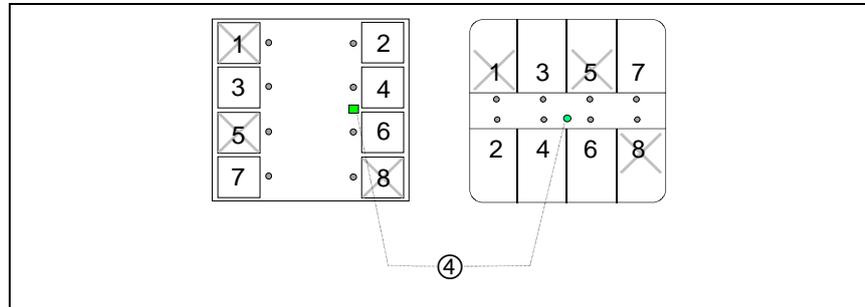
Attention: Electrical equipment must be installed and fitted by qualified electricians only. Non-observance of the safety instructions may cause fire or other hazards. Radio transmission takes place on non-exclusive frequencies. Therefore, interference cannot be excluded. This type of radio transmission is not suitable for safety applications such as emergency shut-off or emergency calling functions.

3. Fitting (see fig. A)

After plugging the pushbutton sensor ① into a flush-mounting *instabus* bus coupler ② (pushbutton sensors 1-channel, 4-channel 207xNABS can also be used on flush-mounting wall-mounted transmitter of the JUNG-Funk-Management range) the contact is established via the user interface ③ All pushbutton sensors have an integrated anti-theft protection.



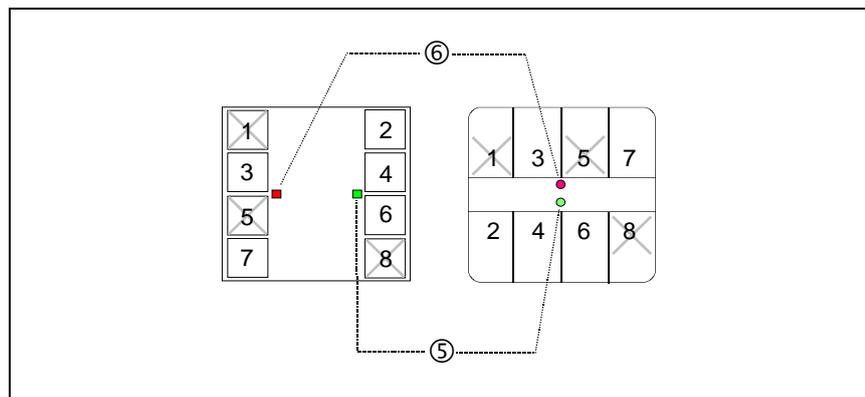
Change-over to switching/dimming mode (only 2094LZ) see fig. B



1. Select the dimming function with the 'three-keys-at-the same-time-operation' (keys 1,5,8), depress between 3 and max. 7 seconds. The status LED ④ flashes slowly.
2. Keys 1 through 8 can now be used for switching or dimming by single-button operation of 8 groups. If no key is depressed for a time to be preset in the software, the device switches back to the lightscape function. Switching over to lightscape operation is also be possible by depressing again the '3 keys' at the same time (3 seconds).

Programming / deleting of a radio-control transmitter (only 2094F) fig. C

During programming / deleting of a radio-control transmitter, the sensitivity of a radio-control receiver is reduced to approx. 5 m . The distance between the 4-channel radiocontrol pushbutton sensor 'Universal' and the radio-control transmitter to be programmed should therefore be not less than 0.5 m and not more than 5 m.



1. Activate the programming / deleting mode by depressing the '3 keys' at the same time (keys 1,5,8) and keep depressed until the green status LED ⑤ starts flashing.
2. Select the channel by depressing the desired channel key (1–8) on the pushbutton sensor until the red LED ⑥ flashes.
3. Depress the desired rocker or lightscape key of a radiocontrol transmitter until the red LED ⑥ is permanently lit (transmitter stored) or flashes fast (transmitter deleted).After 3 seconds, the red LED ⑥, goes out and the rocker or the lightscape is stored or deleted.If mor transmitters are to be programmed or deleted, repeat steps 2 and 3.

The programming/deleting mode is deactivated automatically after minute or by depressing the '3 keys' at the same time (keys 1,5,8). The red LED[Ⓞ] goes out and the green status LED [Ⓢ] is lit up.

4. Technical data

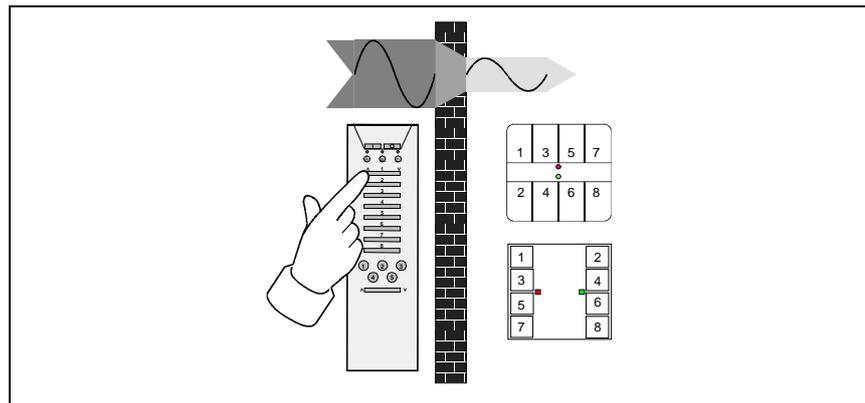
| | |
|----------------------------------|--|
| Supply voltage : | 21 - 32 V DC via flush-mounted bus coupler |
| Connection : | user interface 2 x 5 pole |
| Power consumption : | max. 150 mW on standard bus coupler |
| Degree of protection : | IP 20 |
| Safety class : | III |
| Ambient temperature: | -5 °C ... +45 °C |
| Storage / transport temperature: | -25 °C ... +70 °C |

Only radio-control pushbutton sensor 'Universal' 2094 F

| | |
|---------------------|-----------------------------|
| Receive frequency : | 433.42 MHz, ASK |
| Radio range : | typically 30 m (free-field) |

Instructions for radio-control pushbutton sensor 'Universal' 2094 F

- The distance between the device and other loads causing electrical interference (e.g. microwave oven, HiFi and TV sets), must be at least 0.5 m.
- To avoid saturation, the distance between radio-control pushbutton sensor and transmitter must be at least 1 m.
- The range of a radio-control system depends on transmitter power, receiver characteristics, air humidity, fitting height and building conditions. Fig. D illustrates the penetration of building materials by radio waves:



Dry material

| |
|---------------------------------------|
| Timber, gypsum, gypsum plaster boards |
| Brickwork, particle boards |
| Reinforced concrete |
| Metal, metal grating, aluminium |
| Rain, snow |

Penetration

| |
|------------------|
| approx. 90 % |
| approx. 70 % |
| approx. 30 % |
| approx. 10 % |
| approx. 0 – 40 % |

Radio operation

- The inter-connection of this radio system with other communication networks must comply with national legislation.
- This radio system must not be used for communication beyond property boundaries.
- If utilized in conformity with its designated use, this unit fulfills the requirements of the R&TTE Directive (1999/5/ EC). The complete declaration of conformity can be found in the Internet under: www.jung.de/ce.

The radio-control pushbutton sensor 'Universal' 2094 F may be operated in all EU and EFTA countries.

5. Acceptance of guarantee

Our products are under guarantee within the scope of the statutory provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

ALBRECHT JUNG GMBH & CO. KG
Service-Center
Kupferstr. 17-19
D-44532 Lünen
Service-Line: +(49) 23 55 . 80 65 51
Telefax: +(49) 23 55 . 80 61 89
E-Mail: mail.vka@jung.de

General equipment

Service-Line: +(49) 23 55 . 80 65 55
Telefax: +(49) 23 55 . 80 62 55
E-Mail: mail.vkm@jung.de

KNX equipment

Service-Line: +(49) 23 55 . 80 65 56
Telefax: +(49) 23 55 . 80 62 55
E-Mail: mail.vkm@jung.de

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