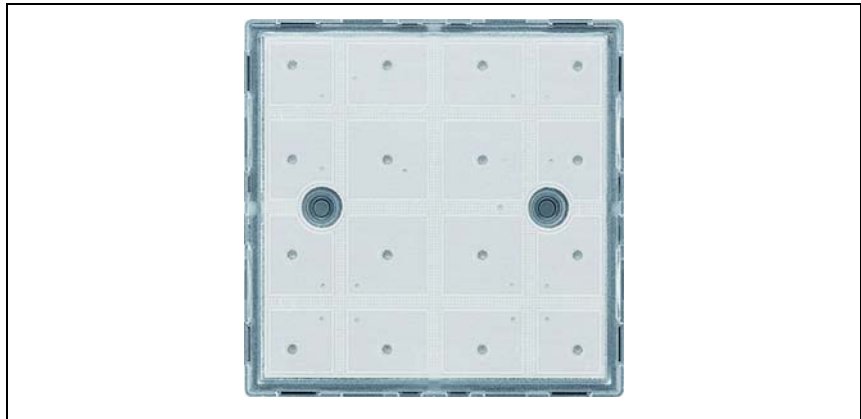## Operating Instructions
Sensor Module 8-gang

1. Safety instructions

Caution! The assembly and installation of electrical devices may only be carried out by an electrical specialist.
If the installation instructions are not observed, the device may be damaged or fire or other hazards may occur.
Connection of the sensor module exclusive of the relay/dimming station Universal (no mains potential!)
Connect of the device to the supporting frame only with the delivered plastic screws.
This manual has to remain with the end user.

2. Function

2.1. Intended use

- Sensor module for connection to the relay station 8-gang Universal ref.-no.: RS8REGHE and universal dimming station 4-gang ref.-no.: UDS4REGHE

2.2. Product features

- 8 channels of the relay station can be controlled:
  switching, push-button control, blind control
- 16 channels can be controlled when connected to 2 parallel wired relay stations
- 4 channels of the dimming station can be controlled
- 8 channels can be controlled when connected to 2 parallel-wired dimming stations
- Additional central function: all assigned channels of the relay station are controlled centrally
- 16 sensor pads with blue LEDs which can be grouped as required
- Programming without additional tools
- Free assignment of the groups to the channels

- LEDs can be used for status feedback and as an orientation light
- Status feedback of the switching states on all connected sensor modules
- Brightness of the status LEDs can be set in three levels (OFF, 50%, 100%)
- Up to 4 sensor modules can be connected to single or parallel connected relay/dimming stations
- parallel connected relay/dimming stations will be automatically detected
- Sensor modules can control different outputs.
- Cloning of sensor modules: transfer of the pushbutton assignment of a sensor module to further sensor modules (used e.g. in two-way circuits or intermediate switch circuits)
- Settings on the device are retained even after mains voltage failure
- Simple installation via 2-wire cable
- Labelling possible (text, graphics, photo)
- Installation into flush box according to DIN 49073

Information for the electrician

3. Fitting and electrical connection

Label on supporting frame: "Type A" or "Type B".

Use of supporting frame for Flat Design Type A or LS ranges Type B.

- Mount the supporting frame (1) in the correct position on a flush-mounted device box (marked "TOP"; "Type A" or "Type B" at the front). Only use the delivered flush box screws (2).
- Place the design frame (3) on the supporting frame.
- Connect the sensor module (4) to the relay/dimming station and place it on the supporting frame with the connection block at the bottom!
- Fix the sensor module to the supporting frame with the plastic screws supplied (5). Only tighten the plastic screws slightly (!).
- Latch the transparent cover (7) with an inlaid label or photo (6) onto the sensor module. Lateral fixing of transparent cover.
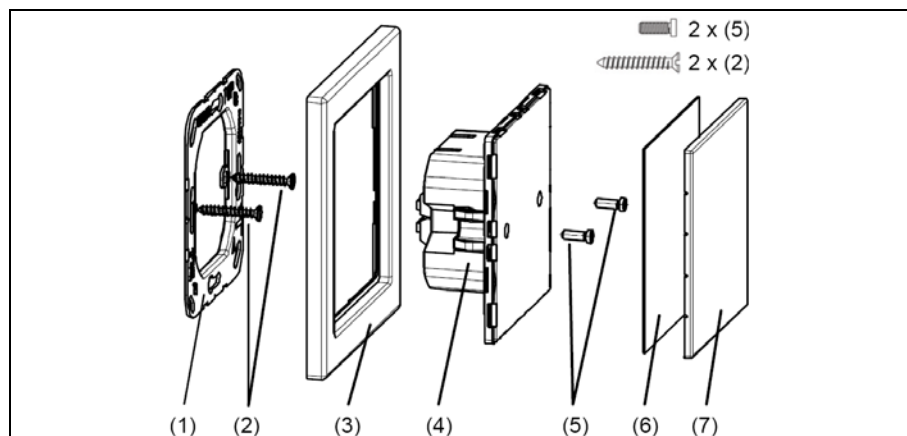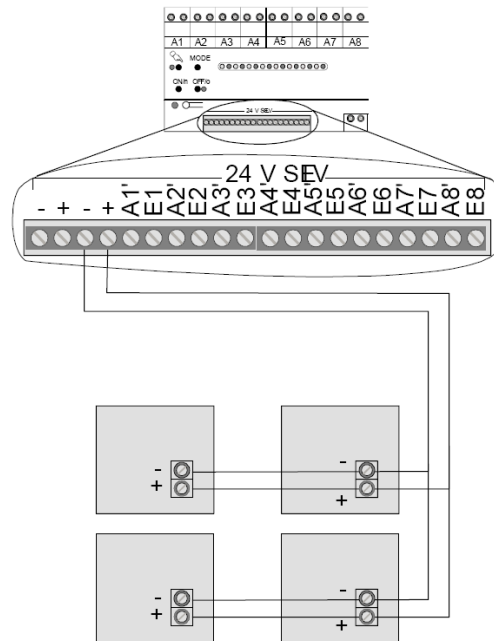
Fig. 7: Installation

Fig. 1: Connection of max. 4 sensor modules to the relay station.

ⓘ Consider polarity.

ⓘ The sensor module has to be connected to the relay/dimming station before setting the „parallel mode".

4. Commissioning

In the delivery status the sensor module pads are assigned to the relay/dimming station channels.

A1	A1	A2	A2	A1	A2	A3	A4
A3	A3	A4	A4	A5	A6	A7	A8
A5	A5	A6	A6	A9	A10	A11	A12
A7	A7	A8	A8	A13	A14	A15	A16

Fig 2: Button assignment of one RS (A1 - 8) or two parallel RS (A1 - 16)

ⓘ The operation modes (Push-button, switching, blinds control) of the relay/dimming station outputs have to be selected directly on the relay/dimming station. It is not possible to set the operation modes on the sensor module.

5. Grouping

You access the grouping mode by entering a 4-digit combination.

- The sensor module must be connected to the relay/dimming station.
- The sensor surfaces are designated as buttons in the following section.
- For the complete grouping, the following steps have to be concluded: Activation of grouping mode, „channel selection and group assignment", „central function" and „LED brightness".

5.1. Activation of the grouping mode

No switching commands are carried out in grouping mode.

- Press buttons 6 – 3 – 5 – 5 in succession (see fig. 6)
  All LEDs flash 2x

- Press buttons 6 – 3 – 5 – 5 again in succession
  All LEDs flash 2x
  LEDs 1 to 8 (1 to 16) fl ash
  The grouping mode is active.

- ⓘ The 8 (16) LEDs stand for the channels of the relay/dimming station Universal. 16 channels, if 2 relay/dimming stations are wired parallel.
  LED 1 → Channel 1
  LED 2 → Channel 2 etc.

- ⓘ Buttons which are not assigned do not give an acknowledge tone when the activation code is first entered.

- ⓘ If there is no operation for 2 min after activation of the grouping mode – before the assignments are concluded – the preceding assignment becomes active.

Fig. 6: Sensor pad

5.2. Channel selection and group assignment

LEDs 1 to 8 (16) flash.
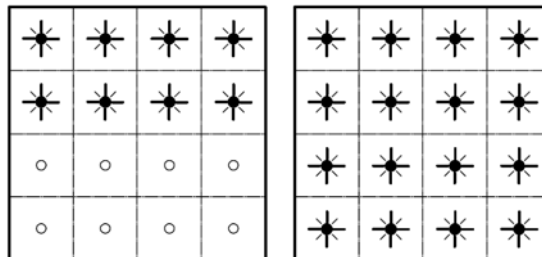Button 1 assigns output A1 of the relay/dimming station, button 2 assigns output A2 etc.

Fig. 3: Button LEDs 1-8 (1-16) flash

- ⓘ A group can consist of 1 to max. 16 buttons.
- ⓘ A button cannot assign two functions simultaneously.
- ⓘ Channels can be assigned in any order.
- ⓘ If no group should be allocated because only central functions should be assigned, press and hold one of the buttons 9 - 16. Proceed with the central functions.
- Press the button that is flashing
  The channel is selected according to the button
  All free button LEDs are off
  Assigned LEDs light up at 50% brightness
- Press the buttons in the group in succession.
  The LEDs in the group flash
  - ⓘ If a flashing button is pressed briefly again, the selection of the button to the group is cancelled out.
- Press and hold the button that is flashing (approx. 3 seconds)
  All LEDs flash 2x
  The group is concluded
  The LEDs of the assigned channels light up at 50% brightness
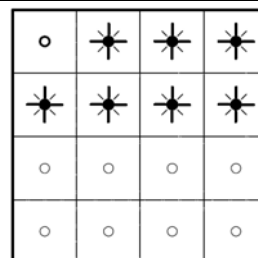 The LEDs of the free channels flash

Fig. 4: Channel 1 is grouped. Button LED 1 lights up at 50% brightness. Button LEDs 2-8 flash.

- ⓘ All further groups are assigned accordingly.
- ⓘ Already concluded groups can be corrected by retrieving the group again.

5.3. Ending the group assignment

Assigned channels light up at 50% brightness
Free channels flash

- Press and hold buttons 9 16 (approx. 3 seconds)
  Long acknowledge tone
  All assigned button LEDs light up at 50% brightness.

ⓘ If less than 2 buttons are free, the assignment of the central function is skipped. Proceed with the LED brightness level.

6. Central function

The central function switches all channels of the connected relay/dimming stations.
At least 2 buttons are unassigned.
All assigned LEDs light up at 50% brightness.

ⓘ First the "Central ON" function is assigned, followed by "Central OFF".

ⓘ If no central functions have been assigned, press and hold any buttons. Proceed with the LED brightness level.

- Press the buttons of the "Central ON" group in succession.
  The LEDs in the group flash.

ⓘ If a flashing button is pressed briefly again, the selection of the button to the group is cancelled out.

ⓘ If only one button is free, it is automatically assigned the "Central OFF" function. Proceed with the LED brightness level.

- Press and hold the button that is flashing
  All assigned button LEDs light up at 50% brightness.

- Press the buttons of the "Central OFF" group in succession.
  The LEDs in the group flash.

- Press and hold the button that is flashing
  Long acknowledge tone
  All LEDs flash 2x
  The LEDs of the first group flash

7. LED brightness

The brightness of the LEDs is assigned per group but for each LED individually. The flashing mode describes the brightness in the OFF and ON state.
LEDs of the first group flash.
LED brightness when the channel is switched on or off.

- Press flashing button until the desired LED brightness is selected.
  LEDs of the group flash in the selected brightness.

Channel OFF	Channel ON
50 %	100 %
Off	50 %
Off	100 %
Off	Off

- Press the flashing buttons of the group until the required LED brightness is selected
  The LEDs of the group flash at the selected brightness.

- Press and hold any button
  LEDs which do not belong to any group are always switched off

ⓘ After confirming the last group, the assignment mode is ended.
  The sensor module is ready for operation.
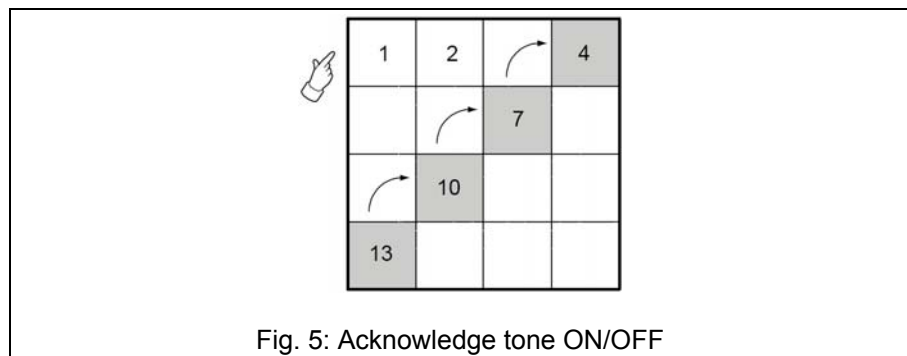
8. Acknowledge tone switched on

The sensor module is in operation mode

- Press buttons 13 – 10 – 7 – 4 – 1 in succession (see fig. 5)
  Acknowledge tone is switched on

9. Acknowledge tone switched off

The sensor module is in operation mode

- Press buttons 13 – 10 – 7 – 4 – 2 in succession
  Acknowledge tone is switched off

Fig. 5: Acknowledge tone ON/OFF

ⓘ When the acknowledge tone is switched on, each switching
  process is confirmed by an acknowledge tone.

10. Reset

When the sensor module will be reset back to factory settings, all
individual settings will be deleted.
The sensor module is in operation mode.

- Press the buttons 12 - 9 - 7 - 9 in succession
  All LEDs flash 2x

- Press again the buttons 12 - 9 - 7 - 9 in succession
  All LEDs flash 2x,
  long acknowledge tone
  Factory settings are restored

11. Cloning of sensor modules

Cloning means the transfer of the push-button assignment of one sensor module to other sensor modules. While cloning mode is running, it is not possible to operate the relay/dimming station.
Several sensor modules are connected to the relay/dimming station.
A push-button assignment is carried out on a sensor module.

- Press the MODE and Central Switching Mode buttons of the relay/dimming station simultaneously until the LEDs ✎, **ON/▲** and **OFF/▼** flash.
  The relay/dimming station and sensor modules are in cloning mode.
  A **C** flashes on the sensor modules.

- Press the button on the sensor module that should be cloned within approx. 2 minutes.
  A + flashes on the sensor module.
  Furthermore, a C flashes on all other sensor modules.

- Press a button on other sensor module within approx. 2 minutes.
  A – flashes for approx. 2 seconds instead of a C.
  The sensor module has adopted the button assignment and the cloning mode is terminated.

- Repeat the steps described above for further sensor modules.

  ⓘ The cloning mode cannot be terminated manually.
  To cancel an active cloning mode, do not touch the sensor module for 2 minutes.

  ⓘ If cloning mode has been activated on the relay/dimming station without the sensor modules being connected, the cloning mode is automatically terminated after 3 minutes.

12. Troubleshooting

The sensor module does not respond

Relay/dimming stations are parallel wired
  Address of the second relay/dimming station is not changed
  Change address of relay/dimming station

Sensor module does not indicate switching status

  Switch on status indication at the relay/dimming station (see manual relay/dimming station)

13. Accessories

Relay station 8-gang   Ref. no.: RS 8 REG HE
Dimming station 4-gang   Ref.-no.: UDS 4 REG HE

14. Technical data

Rated voltage of push-buttons: DC 24 V SELV
Current carrying capacity of switches: max. 20 mA
Connection: Connection block
Protection class: III
Ambient temperature: -5 °C to +45 °C
Storage/transport temperature: -25 °C to +70 °C

Paper thickness   max. 0.25 mm
Subject to changes

15.   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 65
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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