

Universal push-button module with integrated BCU, 1-gang
Art.-No.: 3091 TSM

Universal push-button module with integrated BCU, 2-gang
Art.-No.: 3092 TSM

Universal push-button module with integrated BCU, 3-gang
Art.-No.: 3093 TSM

Universal push-button module with integrated BCU, 4-gang
Art.-No.: 3094 TSM

Universal push-button module with integrated BCU, 8-gang
Art.-No.: 3098 TSM

Universal push-button module with illuminated inscription field and integrated BCU, 1-gang
Art.-No.: 3091 TSML

Universal push-button module with illuminated inscription field and integrated BCU, -gang
Art.-No.: 3092 TSML

Standard push-button module with integrated BCU, 1-gang
Art.-No.: 3071 TSM

Standard push-button module with integrated BCU, 2-gang
Art.-No.: 3072 TSM

Standard push-button module with integrated BCU, 3-gang
Art.-No.: 3073 TSM

Standard push-button module with integrated BCU, 4-gang
Art.-No.: 3074 TSM

Standard push-button module with integrated BCU, 8-gang
Art.-No.: 3078 TSM

Operationsmanual

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Electrostatic discharges can cause defects in the device. Use only the supplied plastic screws.

These instructions are an integral part of the product, and must remain with the end customer.

2 Function

System information

This device is a product of the KNX system and complies with the KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite to proper understanding.

The function of this device depends upon the software. Detailed information on loadable software and attainable functionality as well as the software itself can be obtained from the manufacturer's product database.

Planning, installation and commissioning of the device are carried out with the aid of KNX-certified software. Full functionality with KNX commissioning software version ETS3.0d onwards.

An updated version of the product database, technical descriptions and conversion programs and other auxiliary programs are available on our Internet website.

Intended use

- Serving of user, e.g. light on/off, dimming, blinds up/down, brightness values, temperatures, calling up and saving light scenes, etc.
- Installation in appliance box to DIN 49073

Product characteristics

- The push-button functions switching, dimming, controlling blinds, valuator, calling up moods, etc., depending on the application selected
- Completion with button set

- A blue operation LED as an orientation light and to indicate the programming status
- Integrated bus coupling unit

Push button module standard:

- A red status LED for each control surface

Push button module Universal:

- One or two functions per control surface
- Push-button function or rockers function, vertical or horizontal
- Two red status LEDs for each control surface
- Optional with illuminated text field

Push-button module Universal 8-gang and Universal with illuminated inscription field:

- Room temperature detection

3 Operation

Serve function or user

Push button module Standard: Each operating button is divided into two halves, with a function assigned to each of them. Operation depends on the specific function.

Push button module Universal: Depending on the programming, a control surface can have up to three functions assigned to it – upper/left, lower/right, entire surface. Operation depends on the specific function.

- Switching: Short press on the corresponding control surface.
- Dimming: Long press on the corresponding control surface. The dimming process ends when the control surface is released.
- Move blinds: Long press on the corresponding control surface.
- Stop or adjust blinds: Short press on the corresponding control surface.
- Call up lighting scene: Short press on the corresponding control surface.
- Save lighting scene: Long press on the corresponding control surface.
- Set value, e.g. brightness or temperature setpoint: Short press on the corresponding control surface.

4 Information for qualified electricians

4.1 Fitting and electrical connection



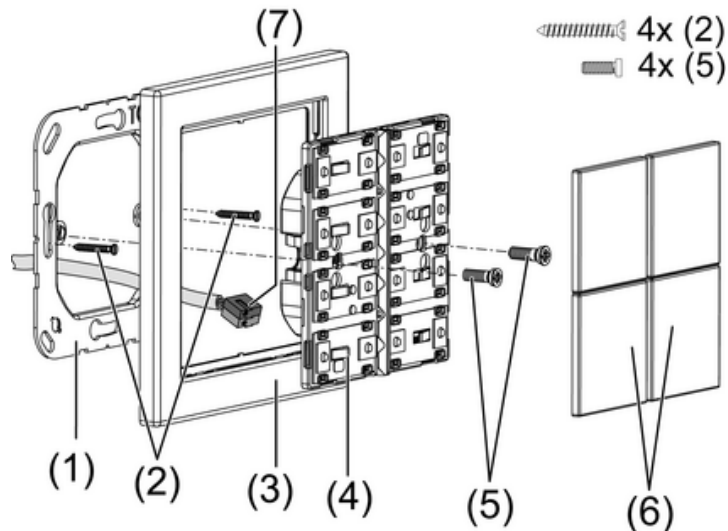
DANGER!

Electrical shock on contact with live parts in the installation environment.

Electrical shocks can be fatal.

Before working on the device, disconnect the power supply and cover up live parts in the working environment!

Connecting and mounting the device



picture 1

- (1) Supporting ring
- (2) Box screws
- (3) Design frame
- (4) Button sensor module
- (5) Plastic screws
- (6) Covers
- (7) KNX connection terminal

Supporting ring side **A** for switch design range FD-Design, Supporting ring side **B** for LS design range.

Button sensor module 8-fang (picture 2): When mounting on only one flush-mounted socket, countersink the lower screws into the wall, e.g. with $\varnothing 6 \times 10$ mm hole. Use supporting ring as template.

Button sensor module with illuminable text field: Fasten with only one plastic screw. If possible label before assembly (see chapter 4.2. Commissioning).



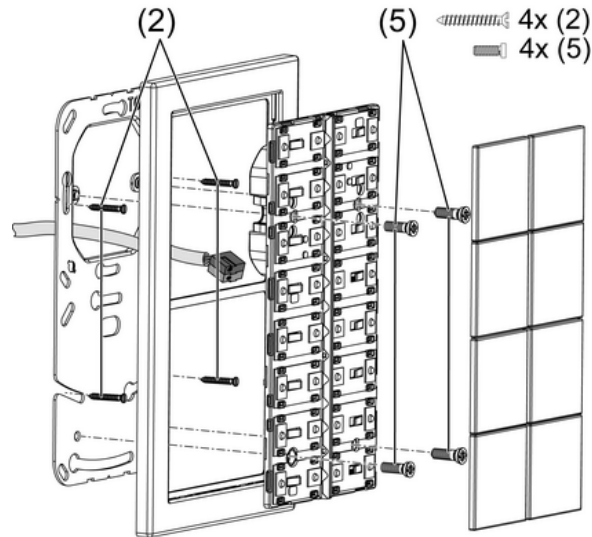
DANGER!

Danger of electrical shock!

When mounting with 230 V socket outlets under a common cover there is a danger of electrical shocks in the event of a fault!

Use only the supplied plastic screws for fastening to the supporting ring.

- Mount supporting ring (1) in the right orientation on an appliance box. Use only the supplied box screws (2). Note marking **TOP**; marking **A** or **B** in front.
- Push frame (3) onto supporting ring.
- Connect button sensor module (4) to the KNX using KNX connecting terminal (7) and push onto the supporting ring.
- Fix push-button module to supporting ring using the supplied plastic screws (5). Tighten the plastic screws only lightly.
- Before mounting the control surfaces (6), load the physical address into the device (see chapter 4.2. Commissioning).



picture 2

4.2 Commissioning

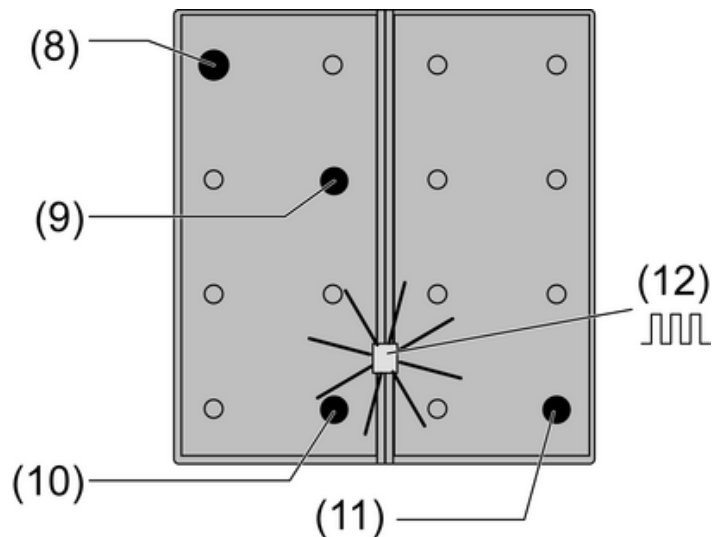
Loading the physical address and application software

Configuration and commissioning with ETS3.0d Patch A.

The device is connected and ready for operation.

The control surfaces are not mounted yet.

- i If the device does not receive any application software, or the wrong application software, then the blue operation LED flashes slowly.



picture 3: Activating programming mode

- Activate programming mode: Press and hold push-button at the upper left (8). Then press push-button at the lower right (9, 10 or 11):

Push button module	Prog. push-button
2-gang with text field, 8-gang, 4-gang, 3-gang	(8) + (9)
1-gang with text field, 2-gang	(8) + (10)
1-gang	(8) + (11)

The operation LED (12) flashes quickly.

- Load physical address into the device.
The operation LED (12) returns to its previous state – off, on, or flashing slowly.
- Write the physical address on the device label.
- Load application software into the device.

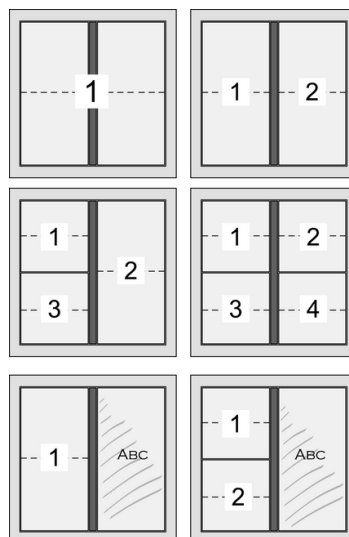
Fitting the control surfaces

The button sensor module covers will be necessary as control surfaces (see chapter 5.2. Accessories).

The physical address is loaded into the device.

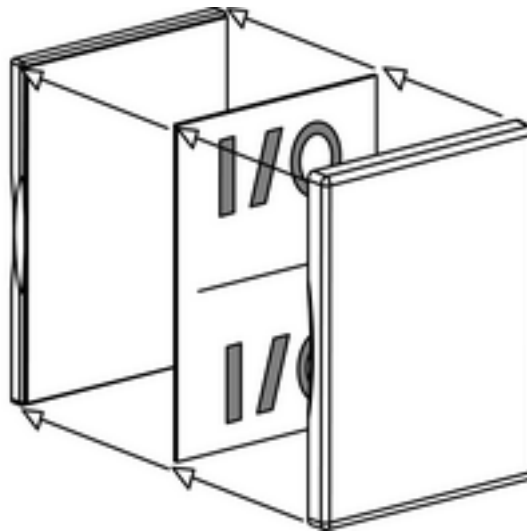
Observe the layout of the covers (picture 4).

- Place control surfaces on the device in the right orientation and snap in with a short push.
Note marking on inner side **TOP** = observe top.



picture 4

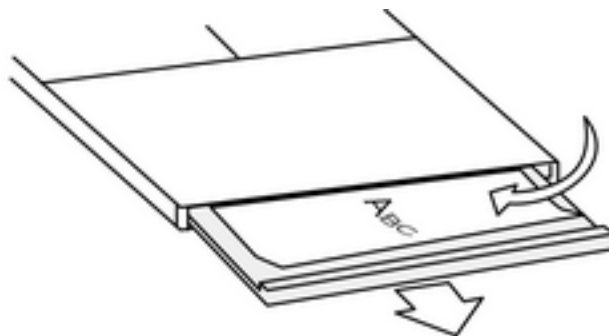
Assemble control surfaces which can be labelled



picture 5

- Label customarily used foil or other with help of the Jung labelling software and insert into the buttons (picture 5).

Label illuminable text field



picture 6

The illuminable text fields are only accessible in unassembled condition.

- i Do not label the inserted foil, but rather for example customarily used transparent membranes. The inserted foil ensures even illumination and for this possesses a special coating.
 - Dismantle the button sensor module if necessary. Carry out the installation steps in the reversed sequence.
 - Pull the labelling drawer out sideways (picture 6).
 - Insert the labelled foil into the drawer.
 - Push drawer back in.

5 Appendix

5.1 Technical data

KNX medium
 Commissioning mode
 Rated voltage KNX
 Power consumption KNX

TP 1
 S mode
 DC 21 V ... 32 V SELV
 typical 150 mW



Connection mode KNX
Ambient temperature
Storage/transport temperature
Safety class

Connection terminal
-5 ... +45 °C
-25 ... +70 °C
III

5.2 Accessories

Cover 1-gang
Cover 2-gang
Cover 4-gang
Cover with symbol, 1-gang
Cover with symbol, 2-gang
Cover with symbol, 4-gang
Cover with inscription field, 1-gang
Cover with inscription field, 2-gang
Cover with inscription field, 4-gang

Art.-No.: FD..901 TSA..
Art.-No.: FD..902 TSA..
Art.-No.: FD..904 TSA..
Art.-No.: FD ..901 TSAP..
Art.-No.: FD ..902 TSAP..
Art.-No.: FD ..904 TSAP..
Art.-No.: FD ..901 TSANA..
Art.-No.: FD ..902 TSANA..
Art.-No.: FD ..904 TSANA..

5.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office:

ALBRECHT JUNG GMBH & CO. KG

Service Center
Kupferstr. 17-19
D-44532 Lünen
Service-Line: +49 (0) 23 55 . 80 65 51
Telefax: +49 (0) 23 55 . 80 61 89
mail.vka@jung.de

General equipment

Service-Line: +49 (0) 23 55 . 80 65 55
Telefax: +49 (0) 23 55 . 80 62 55
mail.vkm@jung.de

KNX equipment

Service-Line: +49 (0) 23 55 . 80 65 56
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