



Universal push-button module, 1-gang

Art. No.: 4191 TSM

Universal push-button module, 2-gang

Art. No.: 4192 TSM

Universal push-button module, 3-gang

Art. No.: 4193 TSM

Universal push-button module, 4-gang

Art. No.: 4194 TSM



Operating philosophy F40 www.jung.de

### **Operating instructions**

## 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.

Use only the enclosed plastic screws for fastening to the supporting frame! Otherwise safe operation cannot be ensured. Electrostatic discharges can cause defects in the device.

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. The latest versions of product database and the technical descriptions are available on our website.

#### Intended use

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

#### **Product characteristics**

- The pushbutton functions switching, dimming, controlling blinds, value transmitter, calling up moods, etc.
- Measurement of the room temperature
- Completion with keyset
- Two red status LEDs for each button
- A blue operation LED as an orientation light and to indicate the programming status
- Integrated bus coupling unit
- One, two or three functions per button
- Push-button function or rockers function, vertical or horizontal
- Connection of push-button extension module to expand the universal push-button sensor module to include four additional buttons

# 3 Operation

#### Operating a function or load

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

- Switch: Short press on button.
- Dim: Long press on button. The dimming process ends when the button is released.
- Move Venetian blind: Long press on button.



- Stop or adjust Venetian blind: Short press on button.
- Call up light scene: Short press on button.
- Save light scene: Long press on button.
- Set value, e.g. brightness or temperature setpoint: Short press on button.

## 4 Information for electrically skilled persons

## 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.

### Snapping on the adapter frame

• With the adapter frame (3) in the correct orientation, snap it from the front onto the pushbutton module (4) (figure 1). Note marking **TOP**.

### Fitting and connecting the device

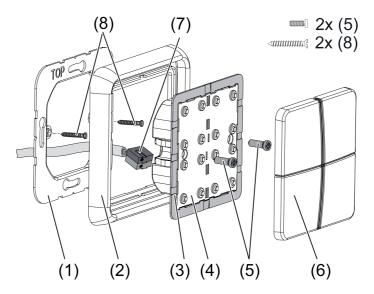
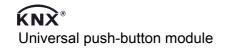


Figure 1: Mounting the push-button module

- (1) Supporting frame
- (2) Design frame
- (3) Adapter frame
- (4) Push-button module
- (5) Fastening screws
- (6) Buttons
- (7) KNX connection terminal
- (8) Box screws

Supporting frame side **A** for A design ranges, CD design ranges and FD design. Supporting frame side **B** for LS design ranges.

When the push-button expansion module is used (figure 2): Preferably mounted vertically. Use large supporting frame (14). When mounting on only one flush-mounted box, countersink the lower screws into the wall, e.g. with a ø 6 x10 mm hole. Use supporting frame as template.







#### DANGER!

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

Electrical shocks can be fatal.

Do not install any 230 V devices in combination with a push-button extension module under a common cover!

- Mount supporting frame (1) or (14) in the correct orientation on an appliance box. Note marking TOP; marking A or B in front. Use only the enclosed box screws (8).
- Push frame (2) onto supporting frame.
- Mount push-button sensor expansion module (15) preferably below. Route connecting cable (16) between supporting frame and intermediate web.
- Push-button expansion module: Insert connecting cable (16) in the correct orientation into slot (17) in the push-button module. Do not crimp the connecting cable (figure 1).
- Connect push-button module (4) to the KNX using KNX connecting terminal (7) and push onto the supporting frame.
- Fasten pushbutton module(s) to supporting frame using the enclosed plastic screws (5). Tighten the plastic screws only lightly.
- Before mounting the buttons (6), load the physical address into the device (see chapter 4.2. Commissioning).

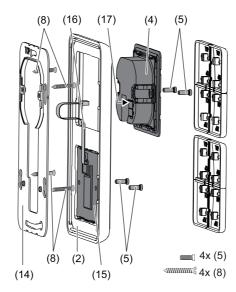


Figure 2: Mounting with push-button expansion module

# 4.2 Commissioning

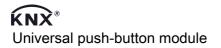
#### Loading the physical address and application software

Configuration and commissioning with ETS3.0d Patch A or more recent.

The device is connected and ready for operation.

The buttons 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.





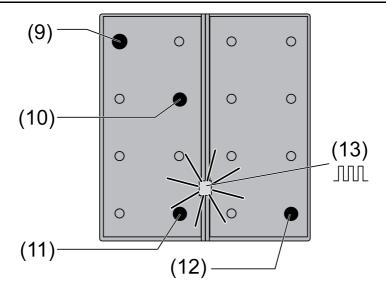


Figure 3: Activating programming mode

 Activate programming mode: Press and hold push-button at the upper left (9). Then press push-button at the lower right (10, 11 or 12):

Push-button module	Prog. push-button
- 4gang, 3gang	(9) + (10)
– 2gang	(9) + (11)
- 1gang	(9) + (12)

The operation LED (13) flashes quickly.

- Load physical address into the device.
  The operation LED (13) returns to its previous state off, on, or flashing slowly.
- Write the physical address on the device label.
- Load the application software into the device.

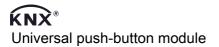
## Installing the buttons

The buttons are available as a complete set of buttons. Individual buttons or the complete set of buttons can be replaced using buttons with symbols.

i The mounting spider is not required to mount the buttons.

The physical address is loaded into the device.

Place the buttons on the device in the correct orientation and snap in with a short push. Note marking TOP.





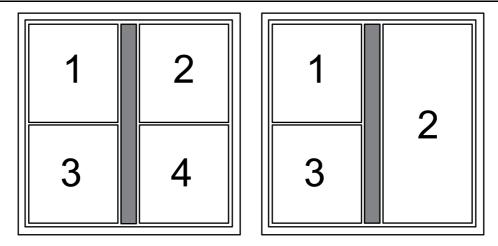


Figure 4: Button assignment

# **5 Appendix**

## 5.1 Technical data

KNX medium TP Commissioning mode S-mode Rated voltage KNX DC 21 ... 32 V SELV Power consumption KNX typ. 150 mW Connection mode KNX device connection terminal -5 ... +45 °C Measuring range Protection class Ш -5 ... +45 °C Ambient temperature -25 ... +70 °C Storage/transport temperature

## 5.2 Accessories

Cover kit 1-gang	Art. No401 TSA
Cover kit 2-gang	Art. No402 TSA
Cover kit 3-gang	Art. No403 TSA
Cover kit 4-gang	Art. No404 TSA
Push-button extension module, 1-gang	Art. No. 4091 TSEM
Push-button extension module, 2-gang	Art. No. 4092 TSEM
Push-button extension module, 3-gang	Art. No. 4093 TSEM
Push-button extension module, 4gang	Art. No. 4094 TSEM

## 5.3 Warranty

The warranty follows about the specialty store in between the legal framework as provided for by law.

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