Operating Instructions
Touch senor module with integrated coupler 'Standard / Universal'

1. Safety warnings

Attention: Electrical equipment must be installed and fitted only by qualified electricians. Risk of electric shock! Risk of electric shock in the event of malfunction, if the device is fitted in combination with 230 V socket outlets under one cover. For fastening to the supporting ring, use only the plastic screws supplied with the device. Failure to observe any of the installation instructions may cause damage to the device and result in fire and other hazards. Risk of damage to the device due to electrostatic discharge. Use only the plastic screws supplied with the device.
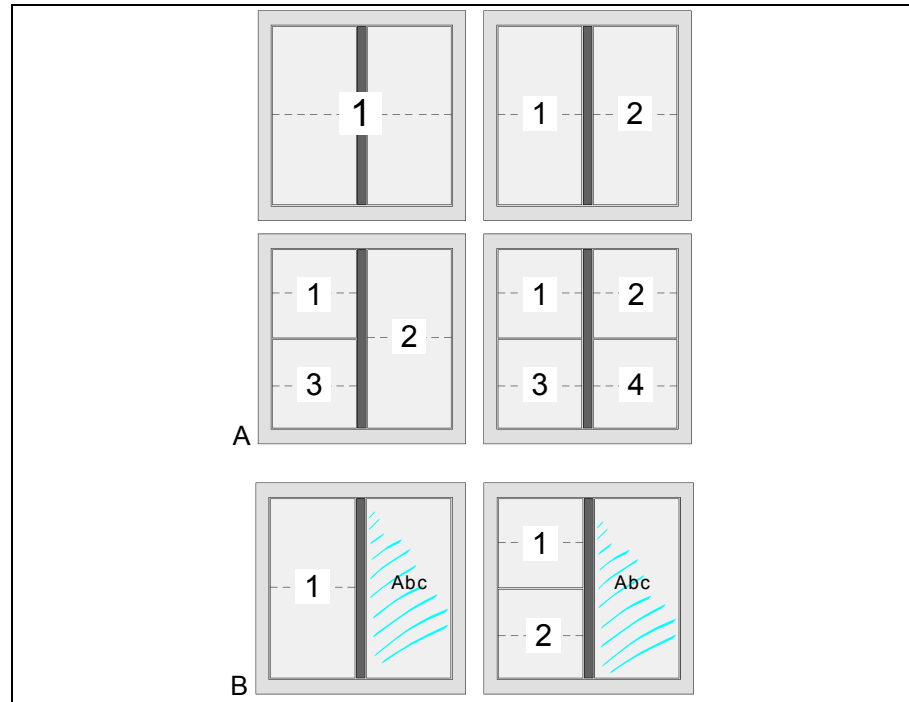
2. Function

System information

This device is a product of the KNX system and complies with KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite to proper understanding. The functionality of this device depends on 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 unit is effected by means of KNX-certified software. The full functionality with KNX commissioning software from version ETS3.0d. onwards. The product database, technical descriptions and conversion programs and other utilities are available in the Internet at www.jung.de

Function

Touch sensor for switching, dimming, shutter operation, value transmission, recall and storage of lightscenes. Each key rocker is 'divided' into an upper and a lower half (FIG. **A**) and has a function assigned to it. Each rocker is equipped with a red status LED.

The blue operation LED can be used as an orientation light besides indicating the programming state of the touch sensor module.

- Flashing fast: programming the physical address
- Flashing slowly: wrong or no application software

Additional functions with touch sensor module 'Universal': Vertical or horizontal rocker operation, single-face function, full-face function, two functions per rocker, two status LEDs per rocker, room temperature sensing (only 8-key model, art. no.: 3098 TSM). With illuminated inscription/labelling field as an option (FIG. B).

Key covers

For operation, the device must be equipped with the corresponding touch sensor module covers (to be ordered separately), e.g.:

1-key	3071 or. 3091 TSM	1 x FD..901 TSA..
w. labelling field	3091 TSML	1 x FD..902 TSA..
2-key	3072 or. 3092 TSM	2 x FD..902 TSA..
w. labelling field	3092 TSML	2 x FD..904 TSA..
3-key	3073 or. 3093 TSM	1 x FD..902 TSA.. 2 x FD..904 TSA..
4-key	3074 or. 3094 TSM	4 x FD..904 TSA..
8-key	3078 or. 3098 TSM	4 x FD..908 TSA..

Covers with article nos. FD..90 TSA NA.. can be labelled. Commercial-grade foils can be labelled with the labelling software from JUNG →www.jung-beschriftungsservice.de.

3. Fitting instructions

- Touch sensor module for switch programs FD-Design (type A: height of frame 6 mm) LS-Design (type B: height of frame 11 mm Inscription on supporting frame: „Type A" or „Type B".

- Fasten the 8-key touch sensor module with four plastic screws on the supporting ring (FIG. **D**). In case of fitting on a single flush-mounting box, the screws (4.1) must be sunk in the wall (e.g. hole ø 6 x 10 mm). Use the supporting ring as a template for drilling.

- Touch sensor modules with illuminated inscription field: Fastening with only one plastic screw. If possible, write the text on the label before fitting
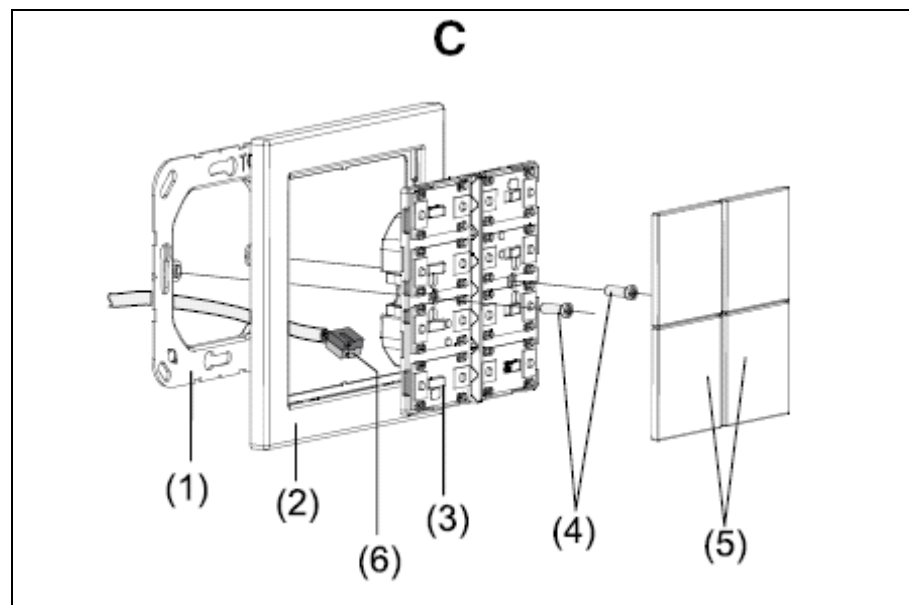
3.1. Montage

1. Fit supporting ring (1) in correct position on a flushmounting box (DIN 49073) (observe the „TOP" mark, „Type A" or „Typ B" in front). Use the screws supplied with the mounting box.
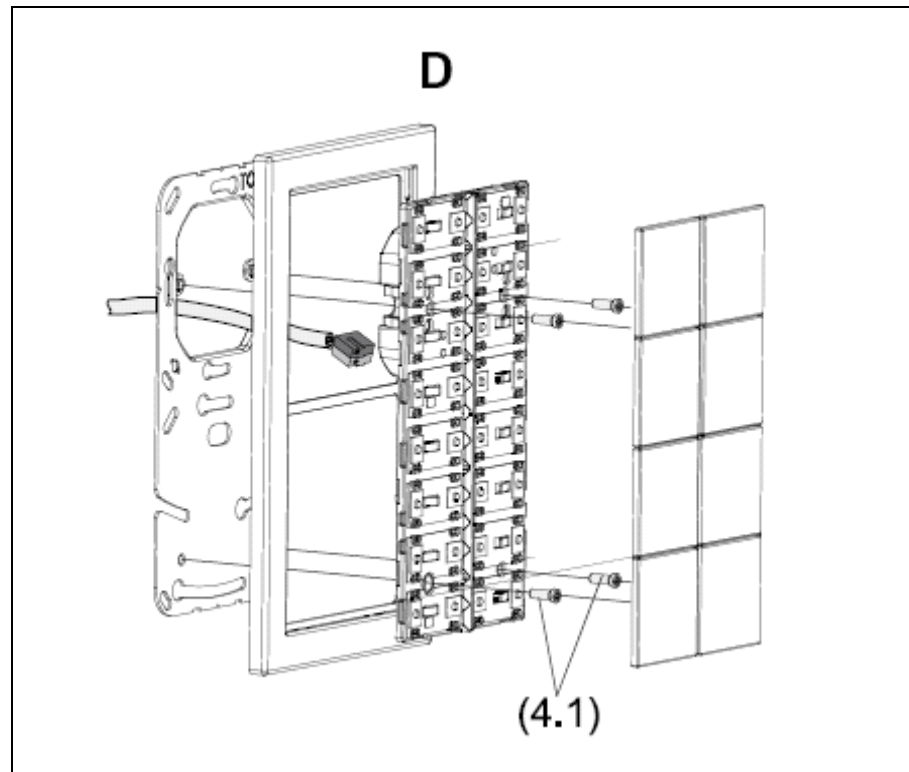
2. Place decorative frame (2) on the supporting ring.

3. Connect the touch sensor module (3) with the KNX connecting terminal (6) to the KNX and plug onto supporting ring (lead bus wires out at the bottom).

4. Fasten touch sensor module with the plastic screws supplied (4) on the supporting ring (protection against removal or theft). Tighten the plastic screws without using force.

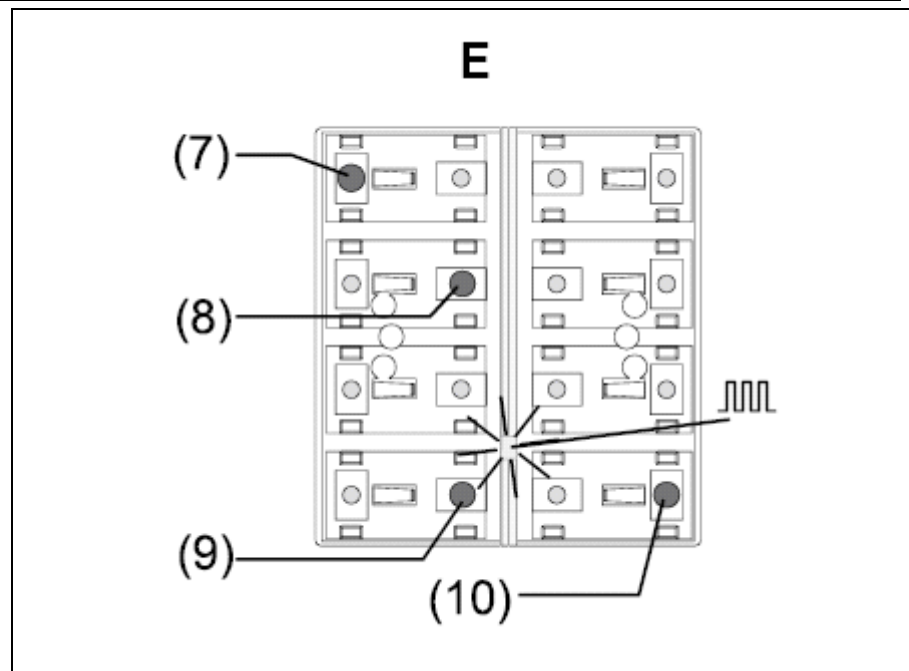Before fitting the covers (5) load the physical address into the device..

KNX

Touch sensor module with integrated coupler
'Standard / Universal'
Ref.-no.: 30xx TSM....

Allocation of physical address (Fig. E)

1. Activate the programming mode: Before fitting the covers press button (7) and hold depressed. Then press the button at the lower right (8, 9 or 10).

Touch sensor module...	Prog. button
– 3-, 4-, 8key, 2key with labelling field	(7) + (8)
– 2key, 1key with labelling field	(7) + (9)
– 1key	(7) + (10)

The operation LED flashes fast

2. End the programming mode:
   – after storing of the physical address
   – by pressing any button

3. Note the physical address on the touch sensor label.

4. Load the application software into the device after the physical address has been taken over.
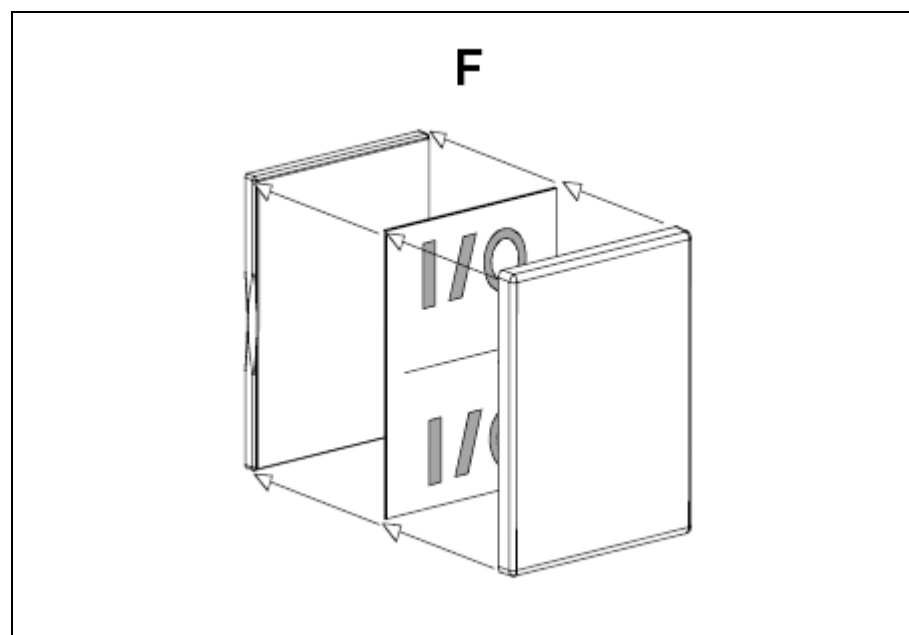
E

(7)

(8)

(9)

(10)

Fitting of the key covers

Install the covers one by one on the touch sensor module. Position of the covers see FIG. **A** / **B**. When the cover is correctly aligned (observe TOP mark on the inside), snap it onto the sensor with a brief press.
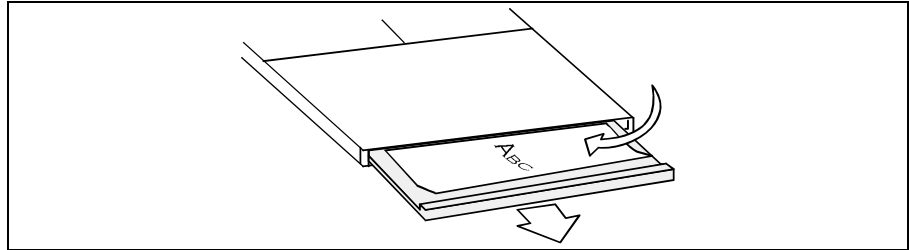
Inscription labels (Fig. F)

The covers with article nos. FD..90x TSA NA.. can be labelled. For labelling, commercial-grade foils can be printed with the JUNG inscription software and inserted into the keys. Fit as shown in FIG. **F**.

F

Illuminated nameplate (Fig. G)

The illuminated nameplates are accessible only before fitting.

Important: Do not write the name on the foil in the device, but on a commercial-grade transparent foil instead. The foil in the device is used for the uniform distribution of the illumination light and has a special coating for this purpose.

1. If necessary, dismantle the touch sensor module (byreversing the fitting sequence).

2. Pull out the label drawer.

3. Place labelled foil into the drawer and slide back I place.

4. Technische Daten

Medium :	TP1 (KNX)
Commissioning mode:	S-Mode (ETS)
Power supply :	21 ... 32 V DC
Connection:	KNX connecting terminal
Power consumption:	max. 150 mW
Type of protection:	IP 20
Safety class:	III
Ambient temperature::	-5 °C ... +45 °C
Storage / transport temperature:	-25 °C ... +70 °C

KNX

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Ref.-no.: 30xx TSM....

5. 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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