Push-button module 24 V AC/DC, 1-gang
Art. No. ..5212 TSM
Push-button module 24 V AC/DC, 2-gang
Art. No. ..5224 TSM
Push-button module 24 V AC/DC, 3-gang
Art. No. ..5236 TSM
Push-button module 24 V AC/DC, 4-gang
Art. No. ..5248 TSM

Operating instructions

1 Safety instructions

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

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. During installation and cable routing, comply with the regulations and standards which apply for SELV circuits.

Use only the enclosed plastic screws. Device fault possible due to electrostatic discharge.

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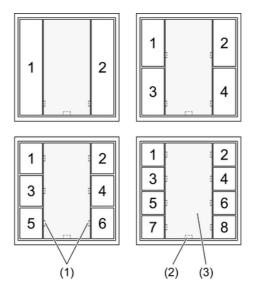
2 Device components

Figure 1: Button arrangement

(1) Status LED
(2) Operation LED
(3) Labelling field

3 Function

Intended use

- Connection to the Universal relay station, the Universal dimming station (see chapter 6.2. Accessories) or other SELV control systems.
- Installation in appliance box according to DIN 49073.

Product characteristics

- Functions: switching, push-button control, dimming, blind control in conjunction with control systems.
- Completion with keyset (see chapter 6.2. Accessories)
- Status LED per button, red
- Operation LED, in red, green or blue according to choice
- Labelling field

ⓘ When these push-button sensors are used with the PHC system supplied by PEHA, the acknowledgment LED function cannot be guaranteed. Please contact our technical support.

4 Operation

Operating a function or load

Operation depends on whether the push-button modules are connected to a dimming or relay station and on the relay station settings.

- Single-button operation, e.g. relay station switching output:
  Switching on or off takes place alternately when the button is pressed repeatedly.
- Two-button operation, e.g. dimming station load output:
  Two buttons form a function pair: one button switches on or dims lighting brighter, the other button switches it off or dims it darker.

5 Information for electrically skilled persons

5.1 Fitting and electrical connection

⚠️ **DANGER!**

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before working on the device, disconnect all the corresponding miniature circuit breakers. Cover up live parts in the working environment.
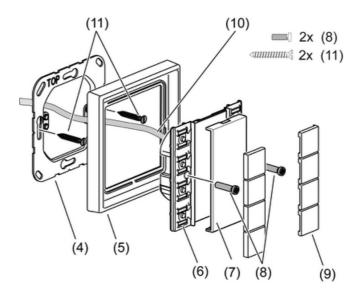
Mounting and connecting the device

Figure 2: Example of 4-gang push-button module installation

(4) Supporting frame

(5) Frame

(6)   Push-button module

(7)   Labelling panel cover

(8)   Fastening screws, plastic

(9)   Buttons

(10) Connection cable, max. 19-conductor

(11) Box screws

ⓘ   Connect an operation LED in either red, green or blue according to choice.

▪   Mount supporting frame (4) in the right orientation on an appliance box. Note marking **TOP**. Use only the enclosed box screws (11).

▪   Push frame (5) onto supporting frame.

ⓘ   The terminals are not suitable for looping.

▪   Connect push-button module (6) to relay station or dimming station as shown in the connection example (figure 3)(figure 4).
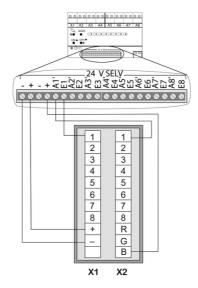

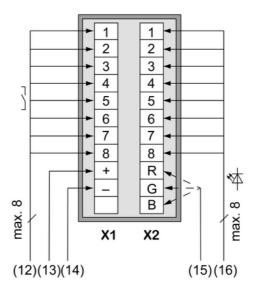Figure 3: Connection example of channel 1 with status LED and blue operation LED

Figure 4: Wiring example for 4-gang push-button module

(12) Push-button: for the relay station, dimming station switching inputs **E1...En**

(13) for the relay, dimming station control voltage **+**

(14) for the relay station, dimming station control voltage **–**

(15) Operation LED, red, green or blue: for the relay, dimming station control voltage **+**

(16) Status LEDs: for the relay, dimming station activation outputs **A1'...An'**

Connection assignment of terminal strip X1

Terminal	1-gang	2-gang	3-gang	4-gang
1	Button 1	Button 1	Button 1	Button 1
2	Button 2	Button 2	Button 2	Button 2
3		Button 3	Button 3	Button 3
4		Button 4	Button 4	Button 4
5			Button 5	Button 5
6			Button 6	Button 6
7				Button 7
8				Button 8
+	Push-button: common reference potential, positive	Push-button: common reference potential, positive	Push-button: common reference potential, positive	Push-button: common reference potential, positive
–	LED: common GND	LED: common GND	LED: common GND	LED: common GND
	Not assigned	Not assigned	Not assigned	Not assigned

Connection assignment of terminal strip X2

Terminal	1-gang	2-gang	3-gang	4-gang
1	Status LED button 1	Status LED button 1	Status LED button 1	Status LED button 1
2	Status LED button 2	Status LED button 2	Status LED button 2	Status LED button 2
3		Status LED button 3	Status LED button 3	Status LED button 3
4		Status LED button 4	Status LED button 4	Status LED button 4
5			Status LED button 5	Status LED button 5
6			Status LED button 6	Status LED button 6
7				Status LED button 7
8				Status LED button 8
R	Operation LED, red	Operation LED, red	Operation LED, red	Operation LED, red
G	Operation LED, green	Operation LED, green	Operation LED, green	Operation LED, green
B	Operation LED, blue	Operation LED, blue	Operation LED, blue	Operation LED, blue

■ Attach the push-button module.

⚠ **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 enclosed plastic screws for fastening to the supporting frame!

Tighten the plastic screws (8) only lightly.

■ Only fasten the push-button module to supporting frame using the supplied plastic screws (8).

Installing the buttons

The buttons are available as a complete set of buttons (see accessories).

■ Place the buttons on the device in the correct orientation and snap in with a short push.

6 Appendix

6.1 Technical data

Push-button	
Rated voltage	AC/DC 24 V SELV
Switching current	max. 20 mA
LEDs	
Rated voltage	DC 24 V SELV
Current consumption	approx. 1 mA (per LED)
Power consumption	max. 0.22 W
Ambient temperature	-25 ... +55 °C
Storage/transport temperature	-25 ... +70 °C
Protection class	III
Connection	
single stranded	0.2 ... 1.5 mm²
finely stranded without conductor sleeve	0.2 ... 1.5 mm²
finely stranded with conductor sleeve	0.25 ... 0.75 mm²

6.2 Accessories

Cover kit 1-gang, complete	Art. No. ..501 TSA..
Cover kit 2-gang, complete	Art. No. ..502 TSA..
Cover kit 3-gang, complete	Art. No. ..503 TSA..
Cover kit 4-gang, complete	Art. No. ..504 TSA..
Relay station universal, 8-gang	Art. No. RS 8 REG HE
Universal dimming station 4-gang	Art. No. UDS 4 REGHE

6.3 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 device with a description of the defect to our central customer service office.

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