

## KNX Push-button Pro

Operating instructions



Art. no. MTN6180-03xx, MTN6180-04xx

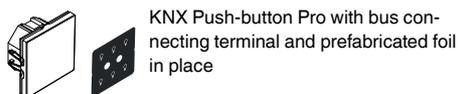
### Necessary accessories

- Complete the KNX Push-button Pro with a System M frame.

### Accessories

- Dismantling protection art. no. MTN6270-0000
- Foil set for KNX Push-button Pro art. no. MTN6270-0010

### Scope of delivery



KNX Push-button Pro with bus connecting terminal and prefabricated foil in place



Retaining ring



3 prefabricated foils



24 individual symbols with 1 carrier foil

### For your safety



#### DANGER

**Risk of serious damage to property and personal injury, e.g. from fire or electric shock, due to incorrect electrical installation.**

Safe electrical installation can only be ensured if the person in question can prove basic knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables
- Connecting and establishing KNX networks

These skills and experience are normally only possessed by skilled professionals who are trained in the field of electrical installation technology. If these minimum requirements are not met or are disregarded in any way, you will be solely liable for any damage to property or personal injury.

### Getting to know the push-button

The KNX Push-button Pro (henceforth referred to as the **push-button**) is a push-button panel with a programmable number of buttons. You can activate a maximum of four touch surfaces to which you can assign the desired room functions, e.g. switching or dimming light, controlling blinds or calling up scenes. If required, you can disable the touch surfaces and also define the type of disabling.

The labelling of the buttons is accomplished using backlit symbols which display the room functions. For this, you can either use the enclosed prefabricated foils or the individual symbols with various motifs. You can replace the symbols at any time in accordance with changing requirements.

The push-button has an integrated bus coupler and its power is supplied via the KNX bus.

### ETS device functions

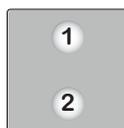
#### Position of the touch surfaces

The push-button has six areas which are activated differently, depending on the number of buttons selected.

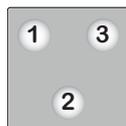
#### 1 Button



#### 2 buttons



#### 3 buttons



#### 4 buttons



#### The display elements in normal operation

Each button has a status display. In the ETS, you can determine the response, the brightness and the colour assignment (white or green) of the status display.

The brightnesses of the status displays can be set individually for both normal operation and night mode.

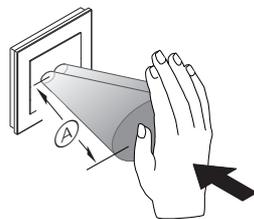
#### Night mode

In order to ensure that the light of the status displays does not disturb, e.g. in the bedroom, the status displays are illuminated with reduced brightness (pre-setting). You can adjust this brightness and select between different responses:

- All status displays are illuminated and respond the same as in normal operation.
- Only one status display is illuminated. It is not until the push-button detects proximity that all status displays are illuminated and respond the same as in normal operation.

#### The proximity function

When the proximity function is activated and idle, the surface of the push-button appears as a uniform plane; the status displays are switched off. It is not until you come within approx. 10 cm of the device that the status displays are activated and the individual touch surfaces become visible along with their stored functions. As soon as proximity is no longer detected, the push-button returns to the idle state after a pre-programmed amount of time.



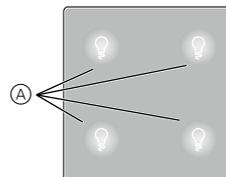
A Range approx. 10 cm



Detection of proximity is optimum when the hand is moved frontally towards the device. The range (A) may vary somewhat due to local circumstances (e.g. ambient brightness) and the colour of the product.

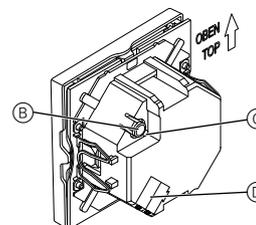
### Connections, displays and operating elements

#### The front side



- (A) Four touch surfaces with status displays and the factory-installed prefabricated foil.

#### The rear side



- (B) Programming button  
(C) Programming LED  
(D) Bus connection with bus connecting terminal

### Selecting the installation site



#### Functioning error due to direct sunlight

Direct sunlight on the device can prevent proximity from being detected in certain cases.

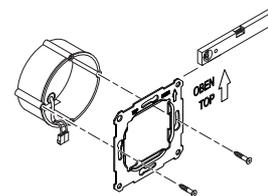
- Always place the device in areas with normal light conditions.

### Mounting the push-button

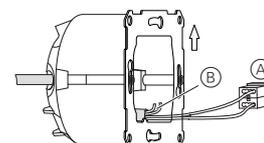
#### Installing an individual device

You need a frame to mount the push-button.

- (1) Mount the retaining ring with the arrow pointed upwards towards the mounting box.

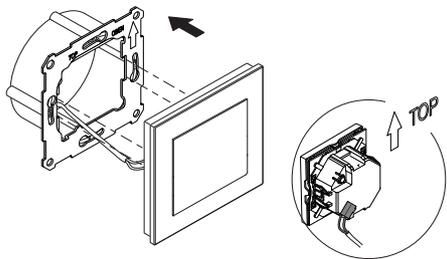


- (2) Bus connection (A):
- Connect the red bus core (+) to the red bus connecting terminal.
  - Connect the black bus core (-) to the dark grey bus connecting terminal.
- (3) Insulate the shield and stability wire and the white and yellow cores (B) and place them in the mounting box.



- (4) Optional: Replacing symbols

- ⑤ Place the device in the frame with the bus connection on the underside.
- ⑥ Insert the bus connecting terminal into the bus connection.
- ⑦ Insert the device together with the frame into the retaining ring and click into place.



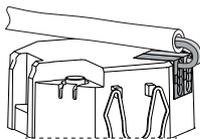
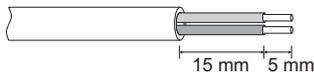
### Installing a combination

Observe the following additional installation instructions when installing devices in combination with a 230 V connection (e.g. sockets).

**WARNING**  
Risk of fatal injury from electric shock. The device can be damaged.

Basic insulation to the retaining ring must always be ensured for SELV cables.

- Observe the following insulation stripping lengths and the instructions on laying cables.



If only single-wire insulation is available, you must restore basic insulation.

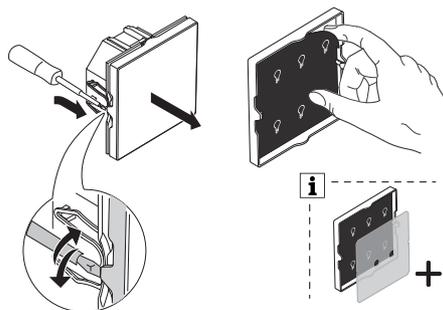
- Pull an insulation sleeve or the bus cable sheathing over the individual wires.

### Replacing symbols

A prefabricated foil containing symbols is placed in the push-button at the factory which can be replaced with other symbols at any time. There are two ways of doing this:

- You can use the accompanying **prefabricated foils**.
- You can use the accompanying **individual symbols with carrier foil** to display your room functions individually.

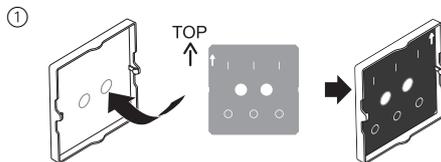
As preparation, remove the cover and the factory-installed prefabricated foil.



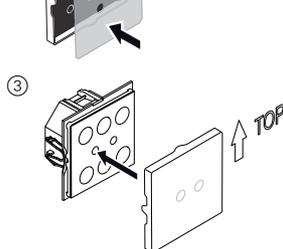
**i** A second, translucent dissipative foil is enclosed, depending on the product colour. Place this dissipative foil between the symbol foil and the status displays.

### Inserting the prefabricated foil

Each prefabricated foil has different symbols. If a prefabricated foil matches your room functions, then simply place it in the push-button. **All foils are to be placed with the lighter side facing the cover.**



**i** If present: Place the dissipative foil between the prefabricated foil and the status displays.

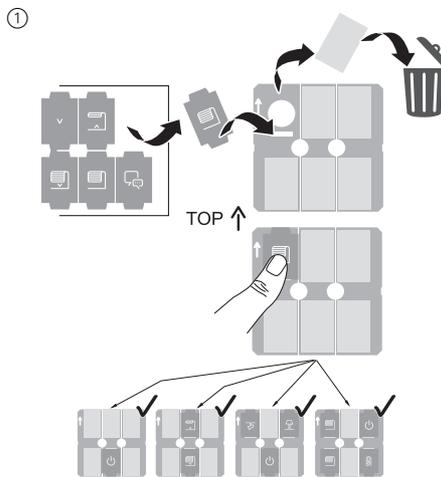


### Inserting the individual symbols

The individual symbols enable you to display your room functions individually. For this, you require the carrier foil which is equipped with 6 protection foils (mildly adhesive).

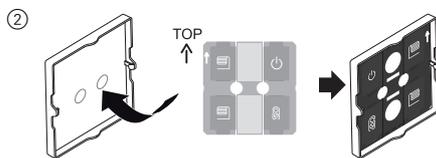
- Remove exactly those protection foils that you want to replace with individual symbols.
- Insert the individual symbols, align them straight and press them onto the carrier foil.

A single-sided adhesive fastens the individual symbols to the carrier foil. **All foils are to be placed with the lighter side facing the cover.**

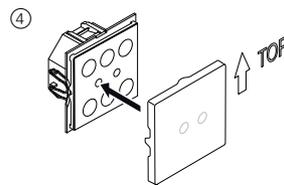


**i** If the symbol is not entirely straight: Detach the symbol and then stick it on again. The procedure can be run through repeatedly.

**i** Take care while doing so to place the symbols on the activated buttons.



**i** If present: Place the dissipative foil between the individual symbols and the status displays.



**i** The symbol "O" shall only be used for switches (relays) of normal gap construction.

### Operating the push-button

- ① Press the programming button.

The programming-LED lights up.

- ② Load the physical address and application into the device from the ETS.

The programming LED goes out.

The device goes into configuration mode for a few seconds. During this time, one LED flashes.

**i** In configuration mode, the proximity sensor is adapted to local circumstances. In order to ensure optimum results, the device is not permitted to register any movements at this time. Otherwise, the configuration will continue to start up repeatedly or the result will be incorrect.

### Technical data

Power supply from KNX: DC 24 V, approx. 20 mA

Ambient operating temperature:

-5 °C to +45 °C

Max. humidity:

93% relative humidity, no condensation

Environment:

The device is designed for use at elevations up to 2000 m above sea level.

IP protection rating:

IP 20

KNX connection:

Two 1 mm pins for bus connecting terminal

Dimensions:

55 mm x 55 mm (HxW)

**i** Give these operating instructions to your customer to keep.

### Schneider Electric Industries SAS

If you have technical questions, please contact the Customer Care Centre in your country.

[schneider-electric.com/contact](http://schneider-electric.com/contact)