751643xx

| Product name: push button standard 4gang |  |  |
| :---: | :---: | :---: |
| Design: flush-mounted device (uP) |  |  |
| ETS search path: Push button / Push button 4gang / Push button 4gang standard |  |  |
| The push button 4gang standard is plugged onto a flush-mounted bus coupling unit (BCU) (cf. connection diagram). After a press on the key, the push button sensor will transmit software-dependent telegrams to the KNX / EIB. These may be telegrams for switching, pushbutton operation, dimming or for shutter control. It is also possible to program value transmitter functions such as dimming value transmitter or light-scene extension units. A white operation LED can serve as orientation lighting. |  |  |
| Layout | Dimensions <br> Width: 70 mm <br> Height: 110 mm <br> Depth: 13 mm (without PEI) | Controls <br> A: 4 rockers or 8 push buttons (position: left / right) <br> B: $4 \times 2$ status-LED (red) <br> C: $1 \times$ Operation-LED (white) |
| Technical Data |  |  |
| Type of protection IP 20 |  |  |
| Safety class III |  |  |
| Mark of approval KNX / EIB |  |  |
| Ambient temperature: $-5^{\circ} \mathrm{C} \ldots+45^{\circ} \mathrm{C}$ |  |  |
| Storage / transport temperature <br> Mounting position <br> Minimum distances: <br> Type of fastening <br> 俍 | $-25^{\circ} \mathrm{C} \ldots+70{ }^{\circ} \mathrm{C}$ (storage abov <br> any <br> none <br> plugging onto flush-mounted | $5^{\circ} \mathrm{C}$ reduces the lifetime) |
| KNX / EIB supply <br> Voltage <br> Power consumption: Connection: | 21-32 V DC (SELV) via flush typically 150 mW $2 \times 5$ pole pin contact strip | unted BCU |
| External supply | --- |  |

object values are deleted, LEDs extinguished no reaction
Bus voltage only:
Input
Output:
Connection and terminals:


A: push button standard 4gang
B : physical external interface (PEI)
$C$ : bus coupling unit (BCU)

Hardware remarks



| Parameters |  |  |
| :---: | :---: | :---: |
| Description: | Values: | Remarks: |
| Z General |  |  |
| Function of the operating LED | $\begin{array}{\|l\|l\|} \hline \text { OFF } \\ \text { ON } \end{array}$ | Defines the status of the operation LED. |
| Function of status LEDs | $\begin{array}{\|l\|} \text { OFF } \\ \text { ON } \end{array}$ | Defines the status of the status LED. |
| Command at operation the left push buttons $1 / 3 / 5 / 7$ | $\begin{aligned} & \text { OFF } \\ & \text { ON } \end{aligned}$ | Defines the command transmitted on pressing of left push buttons $1 / 3 / 5 / 7$. |
| Command at operation the right push buttons 2/4/6/8 | OFF ON | Defines the command transmitted on pressing of right push buttons 2/4/6/8. |
| Software remarks |  |  |
| - The status LED indicates the push button sensor do the object status is updated | e current <br> not get <br> , but the | ject. If a key is pressed (e.g. ON) and if ent (IACK) from an addressed actuator, is not lit up. |


| Applica | tion: | 2. S | ing, ackn | wledge 102F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Execut | ble from mask version: | 1.0 |  |  |  |  |  |
| Number of addresses (max): |  | 10 |  | dynamic table handling: |  | Yes 区 | No $\mathrm{\square}$ |
| Number | of assignments (max): | 10 |  | maximum length of table: |  | 20 |  |
| Communication objects: |  |  | 4 |  |  |  |  |
| Object | Function |  | Name |  | Type |  | Flag |
| 머 0 | Switching |  | Push buta | ttons 1 and 2 | 1 bit |  | C, W, T |
| [매 1 | Switching |  | Push buta | ttons 3 and 4 | 1 bit |  | C, W, T |
| 만 2 | Switching |  | Push buta | ttons 5 and 6 | 1 bit |  | C, W, T |
| 만 3 | Switching |  | Push buta | ttons 7 and 8 | 1 bit |  | C, W, T |
| Object descriptionObjects:प-4 $0-3$ Switching: $\quad 1$-bit object for the transmission of switching telegrams (ON, OFF) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | functions <br> tion of operating LED and mand on key press param | statu erizab | D param N, OFF | terizable |  |  |  |


| Parameters |  |  |  |
| :---: | :---: | :---: | :---: |
| Description: | Values: |  | Remarks: |
| B General |  |  |  |
| Function of the operating LED | $\begin{array}{\|l\|l\|l\|l\|l\|} \hline \text { OFF } \\ \text { ON } \end{array}$ |  | Defines the status of the operation LED. <br> Defines the status of the status LED. |
| Function of status LEDs | OFF <br> ON |  |  |
| Light duration of the status LEDs | $\begin{aligned} & 0.75 \mathrm{~s} \\ & 1.5 \mathrm{~s} \\ & 2.25 \mathrm{~s} \\ & 3.0 \mathrm{~s} \end{aligned}$ | 4.5 s 6.0 s 10 s 15 s | Defines the time during which the status LED is on in case of a positive acknowledgement of receipt from an addressed actuator. |
| Command at operation the left push buttons $1 / 3 / 5 / 7$ | OFF <br> ON |  | Defines the command transmitted on pressing of left push buttons $1 / 3 / 5 / 7$. |
| Command at operation the right push buttons 2/4/6/8 | $\begin{aligned} & \text { OFF } \\ & \text { ON } \end{aligned}$ |  | Defines the command transmitted on pressing of right push buttons 2/4/6/8. |
| Software remarks |  |  |  |
| - The status LED is on for a addressed actuator. If a key acknowledgement (IACK) corresponding status LED | paramet $y$ is pres from an <br> is not lit | time <br> g. ON) <br> ed ac | ositive acknowledgement from an sh button sensor does not get a positive ect status is updated, but the |


| Applica | ion: | 3. | 102D03 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Execut | ble from mask version: | 1.0 |  |  |  |
| Numbe | of addresses (max): | 12 | dynamic tab |  | 区 $\mathrm{No} \square$ |
| Numbe | of assignments (max): | 12 | maximum le | ble: |  |
| Commu | ication objects: | 8 |  |  |  |
| Object | Function |  | Name | Type | Flag |
| $\square \square_{\text {- }} 0$ | Switching |  | Push buttons 1 and 2 | 1 bit | C, W, T |
| [a-1 1 | Switching |  | Push buttons 3 and 4 | 1 bit | C, W, T |
| प-1 2 | Switching |  | Push buttons 5 and 6 | 1 bit | C, W, T |
| [at 3 | Switching |  | Push buttons 7 and 8 | 1 bit | C, W, T |
| - $\square 14$ | Dimming |  | Push buttons 1 and 2 | 4 bit | C, T |
| $\square{ }^{\square}$ | Dimming |  | Push buttons 3 and 4 | 4 bit | C, T |
| - ${ }^{\text {\| }} 6$ | Dimming |  | Push buttons 5 and 6 | 4 bit | C, T |
| $\square 17$ | Dimming |  | Push buttons 7 and 8 | 4 bit | C, T |

## Object description

Objects:

| 머 | $0-3$ | Switching: |
| :--- | :--- | :--- |
| 미 | $4-7$ | Dimming: |$\quad$| 1-bit object for the transmission of switching telegrams (ON, OFF) |
| :--- |
| 4-bit object for change of relative brightness between 0 and $100 \%$ |

## Scope of functions

- Function of operating LED and of status LED parameterizable

| Parameters | Values: | Remarks: |
| :--- | :--- | :--- |
| Description: |  |  |
| Function of perating LED | OFF <br> ON | Defines the status of the operating LED. |
| Function of status LEDs | OFF <br> ON | Defines the status of the status LED. |

## Software remarks

- The status LED indicates the current status of the switching object. If a key is pressed (e.g. ON) and if the push button sensor does not get a positive acknowledgement (IACK) from an addressed actuator, the object status is updated and the corresponding status LED is lit up.

| Applica | ion: | 4. S | 102C03 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Executa | ble from mask version: | 1.0 |  |  |  |
| Number | of addresses (max): | 12 | dynamic tab |  | No $\square$ |
| Number | of assignments (max): | 12 | maximum le |  |  |
| Commu | ication objects: | 8 |  |  |  |
| Object | Function |  | Name | Type | Flag |
| - $\square_{\text {d }}$ | Step operation |  | Push buttons 1 and 2 | 1 bit | C, W, T |
| - $\square_{\text {d }} 1$ | Step operation |  | Push buttons 3 and 4 | 1 bit | C, W, T |
| प- 2 | Step operation |  | Push buttons 5 and 6 | 1 bit | C, W, T |
| 맨 3 | Step operation |  | Push buttons 7 and 8 | 1 bit | C, W, T |
| 만 4 | Move operation |  | Push buttons 1 and 2 | 1 bit | C, W, T |
| 맨 5 | Move operation |  | Push buttons 3 and 4 | 1 bit | C, W, T |
| 멋 6 | Move operation |  | Push buttons 5 and 6 | 1 bit | C, W, T |
| 맨 7 | Move operation |  | Push buttons 7 and 8 | 1 bit | C, W, T |

## Object description

Objects:

| O- | $0-3$ | Step operation: | 1-bit object for step (short-time) operation of a shutter |
| :--- | :--- | :--- | :--- |
| $\square-1$ | $4-7$ | Move operation | 1-bit object for move (long-time) operation of a shutter |

Important: Unused communication objects must be projected with dummy group addresses. Otherwise risk of malfunctions.

## Scope of functions

- Function of operation LED parameterizable
- Time between two telegrams (time between STEP and MOVE) presettable

| Parameters |  |  |
| :---: | :---: | :---: |
| Description: | Values: | Remarks: |
| B General |  |  |
| Function of operating LED | OFF <br> ON | Defines the status of the operating LED. |
| § Push buttons 1 and 2 |  |  |
| Time between two telegrams, base | 130 ms (fixed) | Defines the time base between two telegrams. <br> (Time between STEP and MOVE) <br> Time = base $\bullet$ factor |
| Time between two telegrams, factor (3...127) | 3...127; 3 | Defines the time factor between two telegrams. <br> (Time between STEP and MOVE) <br> Time $=$ base $\bullet$ factor <br> Presetting: $130 \mathrm{~ms} \cdot 3=390 \mathrm{~ms}$ |
| \# Push buttons 3 and 4 |  |  |
| See push buttons 1 and 2 |  |  |
| $\zeta$ Push buttons 5 and 6 |  |  |
| See push buttons 1 and 2 |  |  |
| \# Push buttons 7 and 8 |  |  |
| See push buttons 1 and 2 |  |  |


| Application: |  | 5. Value transmitter 101D03 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Executable from mask version: |  | 1.0 |  |  |  |
| Number of addresses (max): |  | 1 | dynamic table handling: Y |  | Yes 区 No $\square$ |
| Number of assignments (max): |  | 1 | maximum length of table: |  | 2 |
| Communication objects: |  |  |  |  |  |
| Object | Function |  |  |  | Flag |
| $\square 10$ | Value transmitter / light scene extension |  | Push buttons | 1 byte | C, T |
| Object description |  |  |  |  |  |
| Objects: 0 <br> Value / light scene |  | 1-byte object for transmitting value telegrams of for recalling lightscenes |  |  |  |
| Scope of functions <br> - Function of operating LED and of status LED parameterizable <br> - Mode of operation (value transmitter / light-scene recall with / without memory function) freely selectable <br> - Values (1 byte) or light-scene numbers (1...8) for all keys individually parameterizable |  |  |  |  |  |


| Parameters |  |  |
| :---: | :---: | :---: |
| Description: | Values: | Remarks: |
| B General |  |  |
| Function of operating LED | OFF <br> ON | Defines the status of the operating LED. |
| Function of status LEDs | OFF <br> ON | Defines the status of the status LEDs. |
| Operating mode | Value transmitter | Defines the function of the push button sensor. |
|  | Recall light-scene without storage function |  |
|  | Recall light-scene with storage function |  |
| H Push buttons 1 and 2 with "Operating mode = value transmitter" |  |  |
| Left push button value (0...255) <br> Right push button value (0...255) | $0 \text {... 255; } 1$ | Defines the value transmitted when the left push button is pressed. |
|  | 0 ... 255; 4 | Defines the value transmitted when the right push button is pressed. |
| \# Push buttons 1 and 2 with "Operating mode = recall light-scene with / without memory function" |  |  |
| Left push button Light scene (1...8) <br> Right push button Light scene (1...8) |  | Defines the value transmitted when the left push button is pressed. |
|  | 1... 8; 4 | Defines the value transmitted when the right push button is pressed. |
| F Push buttons 3 and 4 with "Operating mode = value transmitter" |  |  |
| Left push button value (0...255) | 0 ... 255; 1 | Defines the value transmitted when the left push button is pressed. |

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| Right push button value (0...255) | $0 \ldots 255 ; 4$ | Defines the value transmitted when the right push button is pressed. |
| :---: | :---: | :---: |
| § Push buttons 3 and 4 with ""Operating mode = recall light-scene with / without memory function" |  |  |
| Left push button Light scene (1...8) <br> Right push button Light scene (1...8) | $\begin{aligned} & 1 \ldots 8 ; 1 \\ & 1 \ldots 8 ; 4 \end{aligned}$ | Defines the value transmitted when the left push button is pressed. <br> Defines the value transmitted when the right push button is pressed. |
| § Push buttons 5 and 6 with "Operating mode = value transmitter" |  |  |
| Left push button value (0...255) <br> Right push button value (0...255) | $\begin{aligned} & 0 \ldots 255 ; 2 \\ & 0 \ldots 255 ; 5 \end{aligned}$ | Defines the value transmitted when the left push button is pressed. <br> Defines the value transmitted when the right push button is pressed. |
| 㸴 Push buttons 5 and 6 with ""Operating mode = recall light-scene with / without memory function" |  |  |
| Left push button Light scene (1...8) <br> Right push button Light scene (1...8) | $\begin{aligned} & 1 \ldots 8 ; 2 \\ & 1 \ldots 8 ; 5 \end{aligned}$ | Defines the value transmitted when the left push button is pressed. <br> Defines the value transmitted when the right push button is pressed. |
| B Push buttons 7 and 8 with "Operating mode = value transmitter" |  |  |
| Left push button value (0...255) <br> Right push button value (0...255) | $\begin{aligned} & 0 \ldots 255 ; 2 \\ & 0 \ldots 255 ; 5 \end{aligned}$ | Defines the value transmitted when the left push button is pressed. <br> Defines the value transmitted when the right push button is pressed. |
| 左 Push buttons 7 and 8 with ""Operating mode = recall light-scene with / without memory function" |  |  |
| Left push button Light scene (1...8) <br> Right push button Light scene (1...8) | $\begin{aligned} & 1 \ldots 8 ; 2 \\ & 1 \ldots 8 ; 5 \end{aligned}$ | Defines the value transmitted when the left push button is pressed. <br> Defines the value transmitted when the right push button is pressed. |

## Software remarks

- Light-scene extension unit:

When a key is pressed for more than 1 s , the parameterized light-scene is recalled and the pertaining status LED switched on for about 1 s . If a key is pressed during a light-scene recall with storage function for more than 5 s , a storage telegram corresponding to the parameterized light-scene will be transmitted and the status LED is lit up for 4 s . Pressing a key with storage function for a time between 1 s and 5 s is without effect.
The status LED lights up after a key-press only in conjunction with a positive acknowledgement (IACK) from an addressed actuator.

- Value transmitter:

The status LED lights up after a key-press only in conjunction with a positive acknowledgement (IACK) from an addressed actuator.

