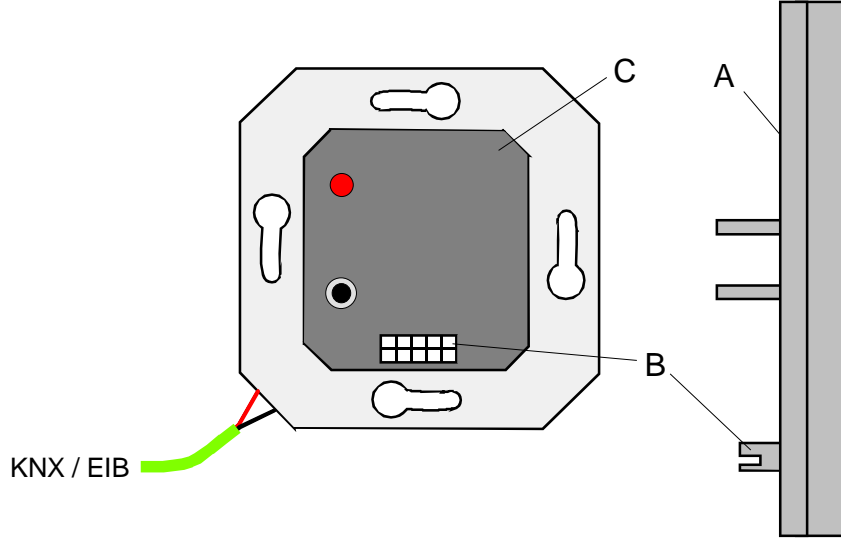


**Push button 1gang standard
flush-mounted
751613xx**

Technical
Documentation



Product name: Push button 1gang standard	
Design: flush-mounted device (UP)	
ETS search path: Push button / Push button 1gang / push button 1gang standard	
Functional description: The push button 1gang 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
<p>The diagram shows a rectangular push button with two terminals labeled T1 and T2 on the left and right sides respectively. Terminal T1 has a red LED labeled B. Terminal T2 has a red LED labeled A. At the bottom center, there is a white LED labeled C.</p>	<p>Width: 70 mm</p> <p>Height: 55 mm</p> <p>Depth: 13 mm (without PEI)</p>
Controls	
<p>A: 1 rocker or 2 push buttons (position: left / right)</p> <p>B: 1 x 2 status-LED (red)</p> <p>C: 1 x Operation-LED (white)</p>	
Technical Data	
Type of protection	IP 20
Safety class	III
Mark of approval	KNX / EIB
Ambient temperature:	-5 °C ... +45 °C
Storage / transport temperature	-25 °C ... +70 °C (storage above +45 °C reduces the lifetime)
Mounting position	any
Minimum distances:	none
Type of fastening	plugging onto flush-mounted BCU
KNX / EIB supply	
Voltage	21 – 32 V DC (SELV) via flush-mounted BCU
Power consumption:	typically 150 mW
Connection:	2 x 5 pole pin contact strip
External supply	---



Response to bus voltage failure Bus voltage only:	object values are deleted, LEDs extinguished
Response on return of bus voltage: Bus voltage only:	no reaction
Input:	---
Output:	---
Connection and terminals:	
 <p>A: push button 1gang standard B: physical external interface (PEI) C: bus coupling unit (BCU)</p>	
Hardware remarks	
• ---	


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Software description			
ETS search path		ETS symbol	
Push button / Push button 1gang / push button 1gang standard			
PEI type	04 _{Hex}	4 _{Dez}	2 inputs / 2 outputs
Applications:			
No.	Summarized description:	Name:	Version:
1	Switching, acknowledgement	Switching, acknowledgement 100903	0.3
2	Dimming	Dimming 100C03	0.3
3	Shutter	Shutter 100D03	0.3
4	Switching , status	Switching, status 103303	0.3
5	Value transmitter	Value transmitter 101B03	0.3


Application:		1. Switching, acknowledgement 100903		
Executable from mask version:		1.0		
Number of addresses (max):		10	dynamic table handling	Yes No
Number of assignments (max):		10	maximum length of table	20
Communication objects		1		
Object	Function	Name:	Type	Flag
 0	Switching	Push buttons	1 bit	C, W, T
Object description				
Objects:				
 0	Switching	1-bit object for the transmission of switching telegrams (ON, OFF)		
Scope of functions				
<ul style="list-style-type: none"> • Function of operating LED and of status LED parameterizable • Command on key press parameterizable (ON, OFF) 				






Parameters		
Description:	Values:	Remarks:
 General		
Function of the operation LED	OFF ON	Defines the status of the operation LED.
Function of the status LED	OFF ON	Defines the status of the status LED.
Light duration of the status LED at operation indication	0.75 s 4.5 s 1.5 s 6.0 s 2.25 s 10 s 2.7 s 15 s 3.0 s 20 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 left push button	OFF ON	Defines the command transmitted on pressing of left push button.
Command at operation right push button	OFF ON	Defines the command transmitted on pressing of right push button.
Software remarks		
<ul style="list-style-type: none"> • The status LED is on for a parameterizable time in case of a positive acknowledgement from an addressed actuator. If a key is pressed (e.g. ON) and if the push button sensor does <u>not</u> get a positive acknowledgement (IACK) from an addressed actuator, the object status is updated, but the corresponding status LED is <u>not</u> lit up. 		



Application:		2. Dimming 100C03		
Executable from mask version:		1.0		
Number of addresses (max):		10	dynamic table handling	Yes No
Number of assignments (max):		10	maximum length of table	20
Communication objects		2		
Object	Function	Name:	Type	Flag
 0	Switching	Push buttons	1 bit	C, W, T
 1	Dimming	Push buttons	4 bit	C, W, T
Object description				
Objects:				
 0	Switching	1-bit object for the transmission of switching telegrams (ON, OFF)		
 1	Dimming	4-bit object for change of relative brightness between 0 and 100 %		
Scope of functions				
<ul style="list-style-type: none"> • Function of operating LED and of status LED parameterizable • Dimming step width, telegram repetition and transmission of stop telegrams possible 				

Parameters										
Description:	Values:	Remarks:								
 General										
Function of the operation LED	OFF ON	Defines the status of the operation LED.								
Function of the status LED	OFF ON	Defines the status of the status LED.								
Dimming brighter by	<table border="0"> <tr> <td>100 %</td> <td>6 %</td> </tr> <tr> <td>50 %</td> <td>3 %</td> </tr> <tr> <td>26 %</td> <td>1.5 %</td> </tr> <tr> <td>12.5 %</td> <td></td> </tr> </table>	100 %	6 %	50 %	3 %	26 %	1.5 %	12.5 %		Defines the maximum dimming step performed on reception of a relative dimming telegram (brighter).
100 %	6 %									
50 %	3 %									
26 %	1.5 %									
12.5 %										
Dimming darker by	<table border="0"> <tr> <td>100 %</td> <td>6 %</td> </tr> <tr> <td>50 %</td> <td>3 %</td> </tr> <tr> <td>26 %</td> <td>1.5 %</td> </tr> <tr> <td>12.5 %</td> <td></td> </tr> </table>	100 %	6 %	50 %	3 %	26 %	1.5 %	12.5 %		Defines the maximum dimming step performed on reception of a relative dimming telegram (darker).
100 %	6 %									
50 %	3 %									
26 %	1.5 %									
12.5 %										
Telegram repetition ?	YES NO	Defines whether dimming telegrams are to be cyclically repeated								
Time between two telegrams	100 ms; 200 ms; 300 ms; 400 ms ; 500 ms 750 ms; 1.0 s; 1.5 s; 2.0 s	Defines the time between two dimming telegrams for telegram repetition								
Send stop telegram ?	YES NO	Defines whether a dimming procedure in progress is to be stopped when the key is released (YES).								
Software remarks										
<ul style="list-style-type: none"> • The status LED indicates the instantaneous status of the switching object. If a key is pressed (e.g. ON) and if the push button sensor does <u>not</u> get a positive acknowledgement (IACK) from an addressed actuator, the object status is updated, but the corresponding status LED is not lit up. 										

Application:		3. Shutter 100D03		
Executable from mask version:		1.0		
Number of addresses (max):		10	dynamic table handling	Yes No
Number of assignments (max):		10	maximum length of table	20
Communication objects		2		
Object	Function	Name:	Type	Flag
 0	Step operation	Push buttons	1 bit	C, W, T
 1	Move operation	Push buttons	1 bit	C, W, T
Object description				
Objects:				
 0	Step operation:	1-bit object for the step (short-time) operation of a shutter		
 1	Move operation:	1-bit object for the move (long-time) operation of a shutter		
Scope of functions				
<ul style="list-style-type: none"> • Function of operation LED parameterizable • Time between two telegrams and number of steps before continuous run (slat adjustment) presettable 				

Parameters		
Description:	Values:	Remarks:
 General		
Function of the operation LED	OFF ON	Defines the status of the operation LED.
Number of steps before move operation (1...30)	1 ... 30; 1	A short-time telegram (STEP) permits adjusting the slats of a shutter. This parameter defines how many short-time telegrams are transmitted before a continuous run (MOVE) after a long key-press.
Time between two telegrams, base	0.5 ms; 8 ms ; 130 ms 2.1 s; 33 s	Defines the time base between two telegrams. (Time between STEP – STEP or between STEP – MOVE) Time = base • factor
Time between two telegrams, factor(0...255)	0 ... 255; 46	Defines the time factor between two telegrams. (Time between STEP – STEP or between STEP – MOVE) Time = base • factor Presetting: 8 ms • 46 = 368 ms




Application:		4. Switching/pushing 103303		
Executable from mask version:		1.0		
Number of addresses (max):		13	dynamic table handling	Yes No
Number of assignments (max):		13	maximum length of table	26
Communication objects		3		
Object	Function	Name:	Type	Flag
 0	Switching	Left push button	1 bit	C, W, T
 1	Switching	Right push button	1 bit	C, W, T
 2	Triggering LED	Status LED	1 bit	C, W, T
Object description				
Objects:				
 0 - 1	Switching	1-bit object for the transmission of switching telegrams (ON, OFF)		
 2	Triggering LED:	1-bit object for status LED control		
Scope of functions				
<ul style="list-style-type: none"> Function of operation LED can be parameterized and status indication controlled by means of objects Push button functions (ON / OFF / TOGGLE) can be parameterized 				

Parameters		
Description:	Values:	Remarks:
 General		
Function of the operation LED	OFF ON	Defines the status of the operation LED.
 Push buttons		
Function of the status LED	ON (status) LED always on LED always OFF	Defines the operation of the status LED. The status LED indicates the object status of the LED control object. The status LED is always on. The status LED is always off.
Command at operation left push button	push = ON, release = ON push = ON, release = OFF push = ON, release = --- push = ON, release = ON push = OFF, release = OFF push = ON, release = --- push = TOGGLE, release = --- push = ---, release = ON push = ---, release = OFF push = ---, release = TOGGLE push = ---, release = ---	Defines the command transmitted on pressing or on releasing of left push button.

**Push button 1gang standard
flush-mounted
751613xx**

Command at operation right push button	push = ON, release = ON push = ON, release = OFF push = ON, release = --- push = ON, release = ON push = OFF, release = OFF push = ON, release = --- push = TOGGLE, release = --- push = ---, release = ON push = ---, release = OFF push = ---, release = TOGGLE push = ---, release = ---	Defines the command transmitted on pressing or on releasing of right push button.
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Application:		5. Value transmitter 101B03		
Executable from mask version:		1.0		
Number of addresses (max):		1	dynamic table handling	Yes No
Number of assignments (max):		1	maximum length of table	2
Communication objects		1		
Object	Function	Name:	Type	Flag
<input type="checkbox"/> 0	Value transmitter / light scene extension	Push buttons	1 byte	C, T
Object description				
Objects:				
<input type="checkbox"/> 0	Value transmitter / light scene extension	1-byte object for the transmitting value telegrams of for recalling of light-scenes		
Scope of functions				
<ul style="list-style-type: none"> • Function of operating LED and of status LED parameterizable • Mode of operation (value transmitter / light scene recall with / without storage function) freely selectable • Values (1 byte) or light-scene numbers (1...8) for all push buttons individually parameterizable 				

Description:	Values:	Remarks:
 General		
Function of operation LED	OFF ON	Determines the status of the operation LED.
Function of the status LED	OFF ON	Determines the status of the status LED.
Operating mode	Value transmitter Recall light scene without storage function Recall light scene with storage function	Defines the function of the push button sensor.
 Push buttons (with "Operating mode = value transmitter")		
Left push button value (0...255)	0 ... 255; 1	Defines the value transmitted when left push button is pressed.
Right push button value (0...255)	0 ... 255; 2	Defines the value transmitted when right push button is pressed.
 Push button (with "Operating mode = recall light scene with / without storage function")		
Left push button light scene (1...8)	1 ... 8; 1	Defines the value transmitted when left push button is pressed.
Right push button light scene (1...8)	1 ... 8; 2	Defines the value transmitted when right push button is pressed.
Software remarks <ul style="list-style-type: none"> Light-scene extension unit: When a push button 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.		