

F50 Film

How do I configure the functions shown in the film

Presentation and configuration aid for the JUNG push-button sensor film. Presentation and aid for the creation of a customer-specific operating concept with the KNX push-button sensors F50 from JUNG. All the operating philosophies shown in the film are explained with the parameters that need to be modified.

[F50 Film on Youtube](#)

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1. KNX push-button sensor F50 from JUNG

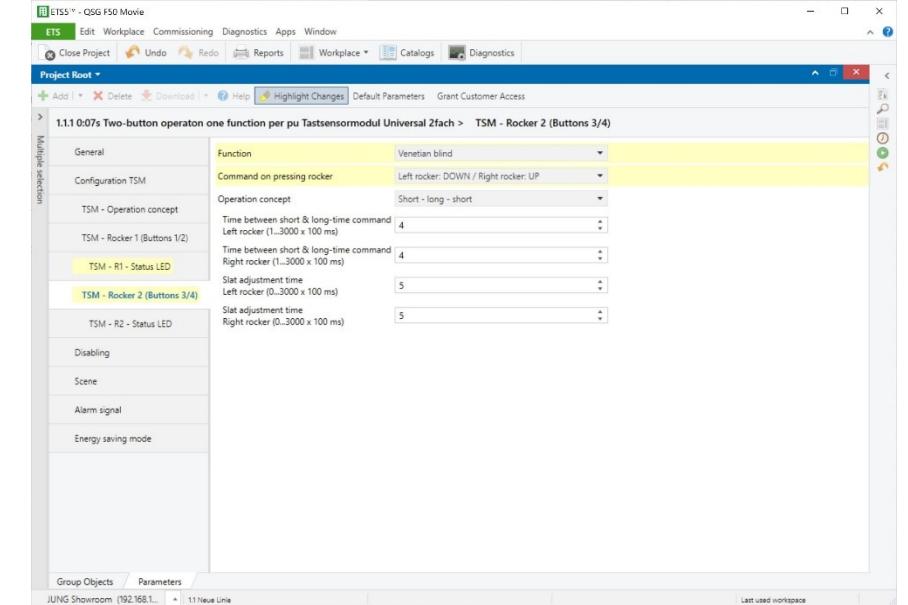
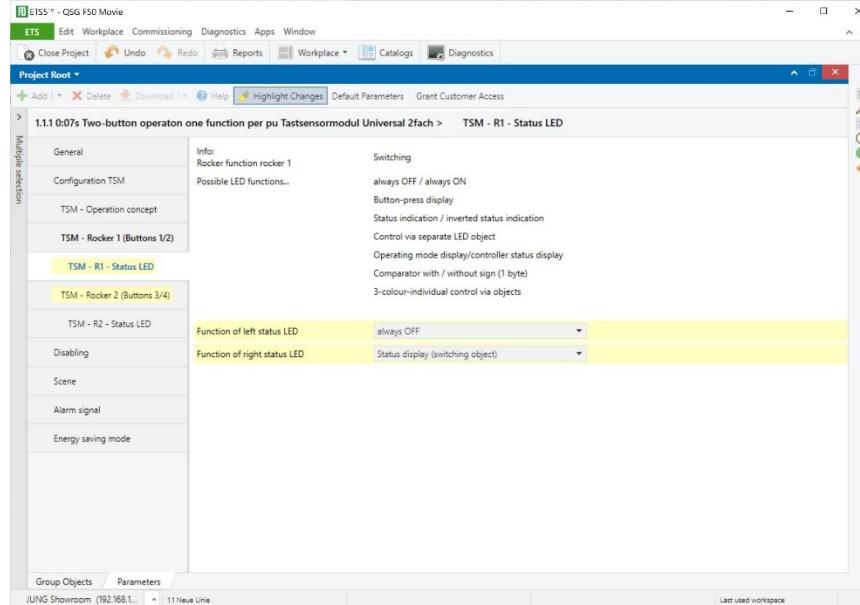
1.1. Two-button operation / one function per push-button

F50 two-button operation / one function per push-button in horizontal alignment movie 0:07 s

TWO BUTTON OPERATION
each button with one function
horizontal assignment



- Change to the parameter dialog of the KNX push-button sensor
- Open the tab "TSM – Rocker 1 (push-buttons 1/2)"
 - Set the parameter "Command on pressing the left rocker" to "OFF"
 - Set the parameter "Command on pressing the right rocker" to "ON"
- Open the tab "TSM - R1 - Status LED"
 - Set the parameter "Function of left status LED" to "always OFF"
 - Set the parameter "Function of right status LED" to "Status display (switch object)"
- Open the tab "TSM - Rocker 2 (push-buttons 3/4)"
 - Set the "Function" parameter to "Blinds"
 - Set the parameter "Command on pressing the rocker" to "Left rocker/right rocker: UP"



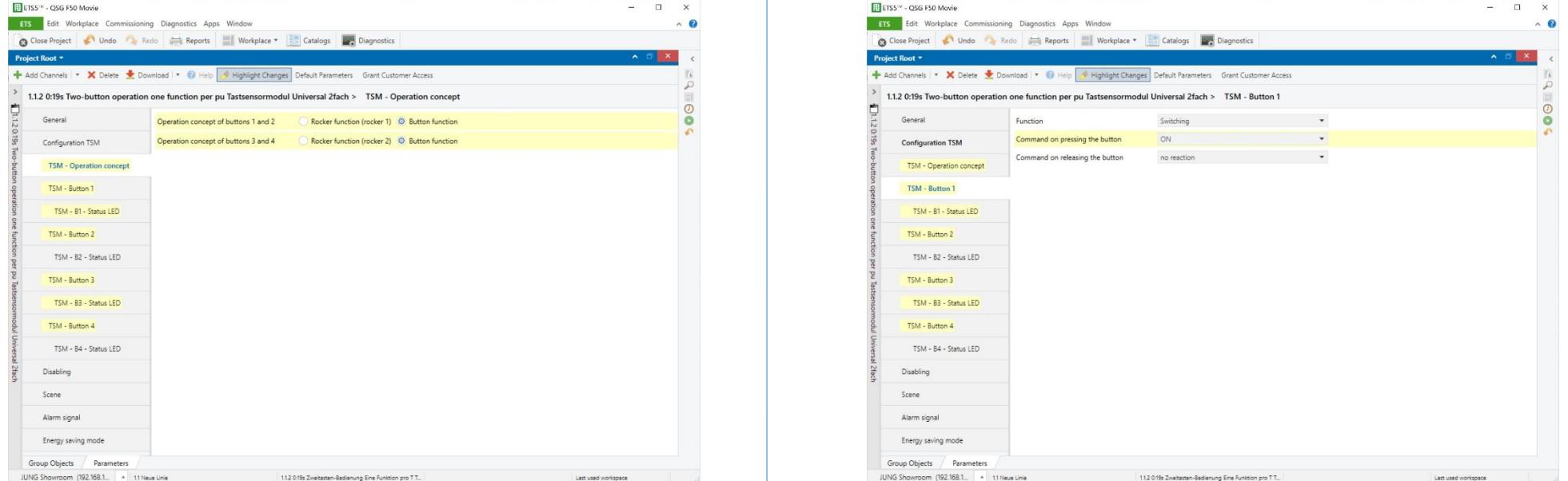
1.2. Two-button operation / one function per push-button

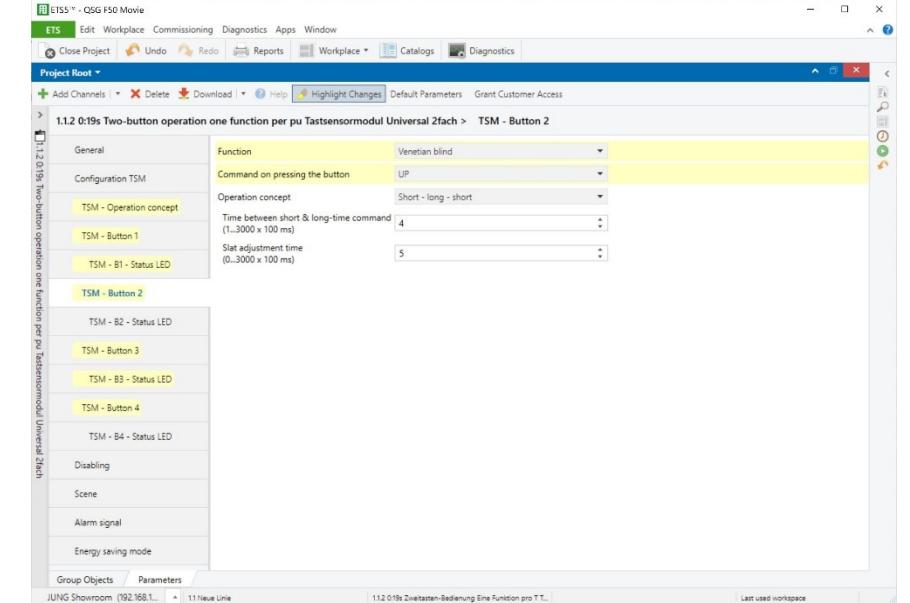
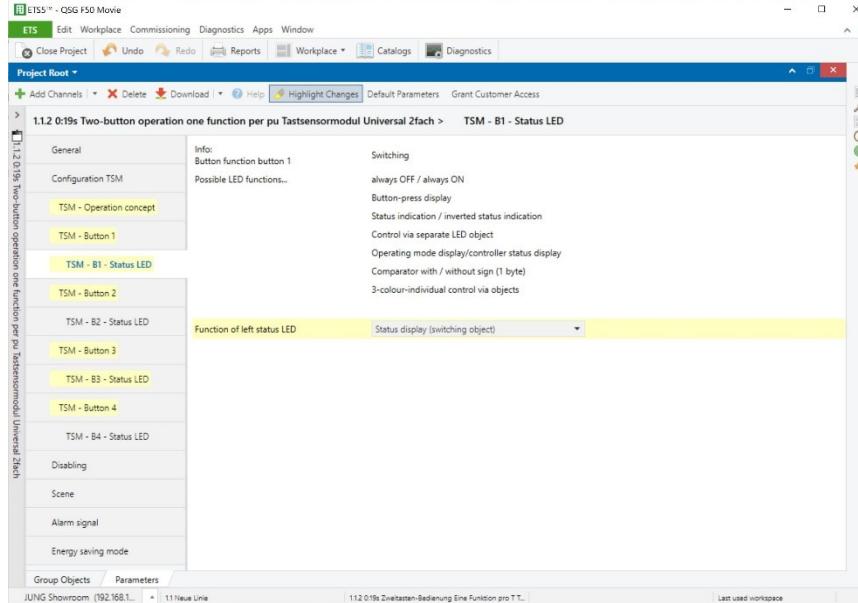
F50 two-button operation / one function per push-button in vertical alignment movie 0:19 s

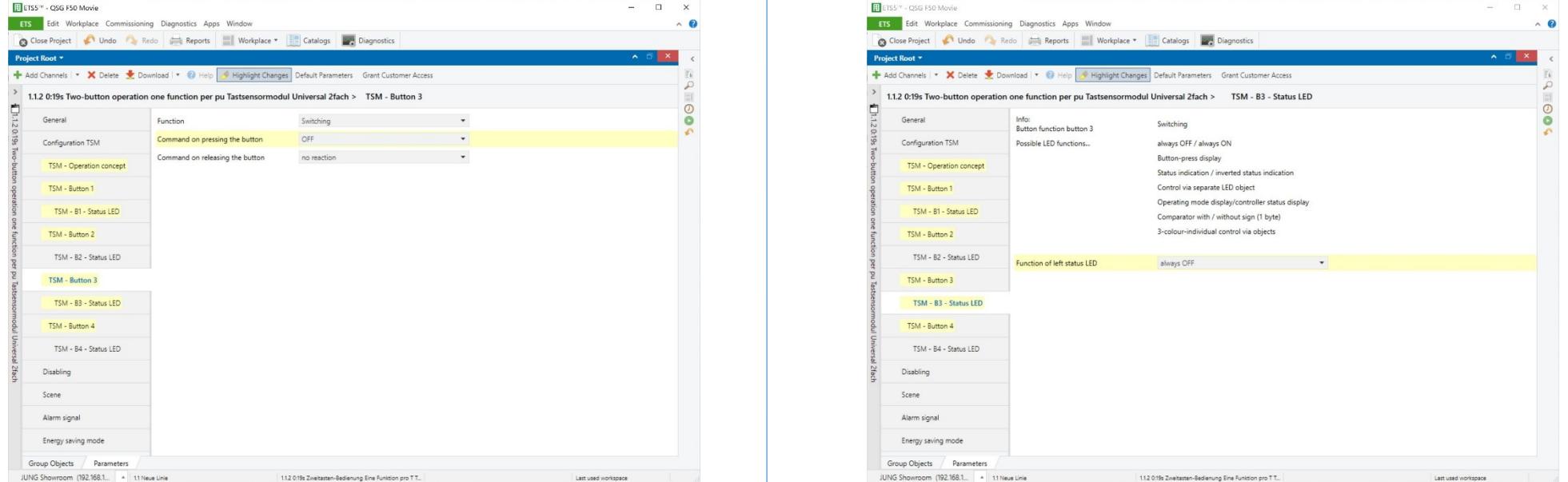
TWO BUTTON OPERATION
each button with one function
vertical assignment

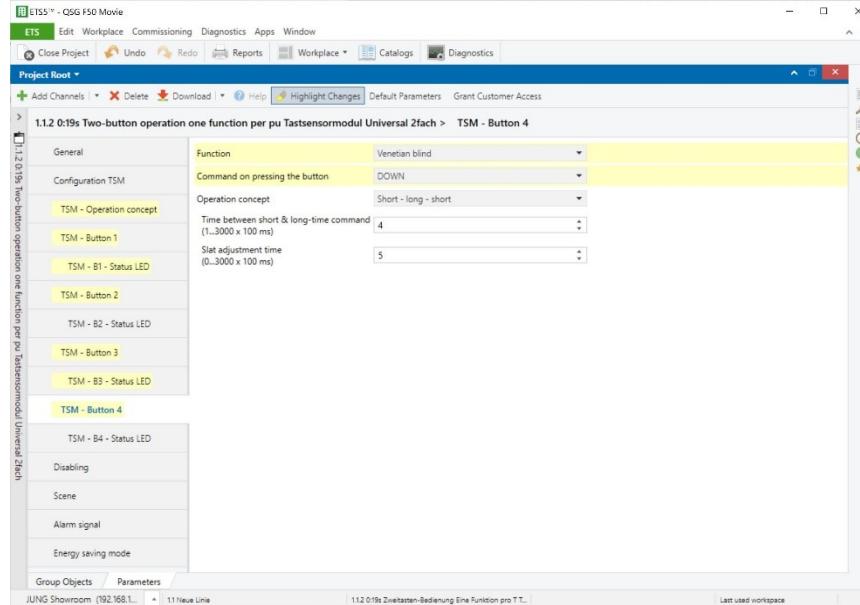


- Change to the parameter dialog of the KNX push-button sensor
- Open the tab "TSM - Operating concept"
 - Set the parameter "Operating concept of push-buttons 1 and 2" to "Push-button function"
 - Follow the same process with push-buttons 3+4
- Open the tab "TSM - Push-button 1"
 - Set the parameter "Command on pressing the push-button" to "ON"
- Open the tab "TSM - PB1 - Status LED"
 - Set the parameter "Function of left status LED" to "Status display (switch object)"
- Open the tab "TSM - Push-button 2"
 - Set the "Function" parameter to "Blinds"
 - Set the parameter "Command on pressing the push-button" to "UP"
- Open the tab "TSM - Push-button 3"
 - Set the parameter "Command on pressing the push-button" to "OFF"
- Open the tab "TSM - PB3 - Status LED"
 - Set the parameter "Function of left status LED" to "always OFF"
- Open the tab "TSM - Push-button 4"
 - Set the "Function" parameter to "Blinds"
 - Set the parameter "Command on pressing the push-button" to "DOWN"









1.3. Single button operation / two functions per push-button

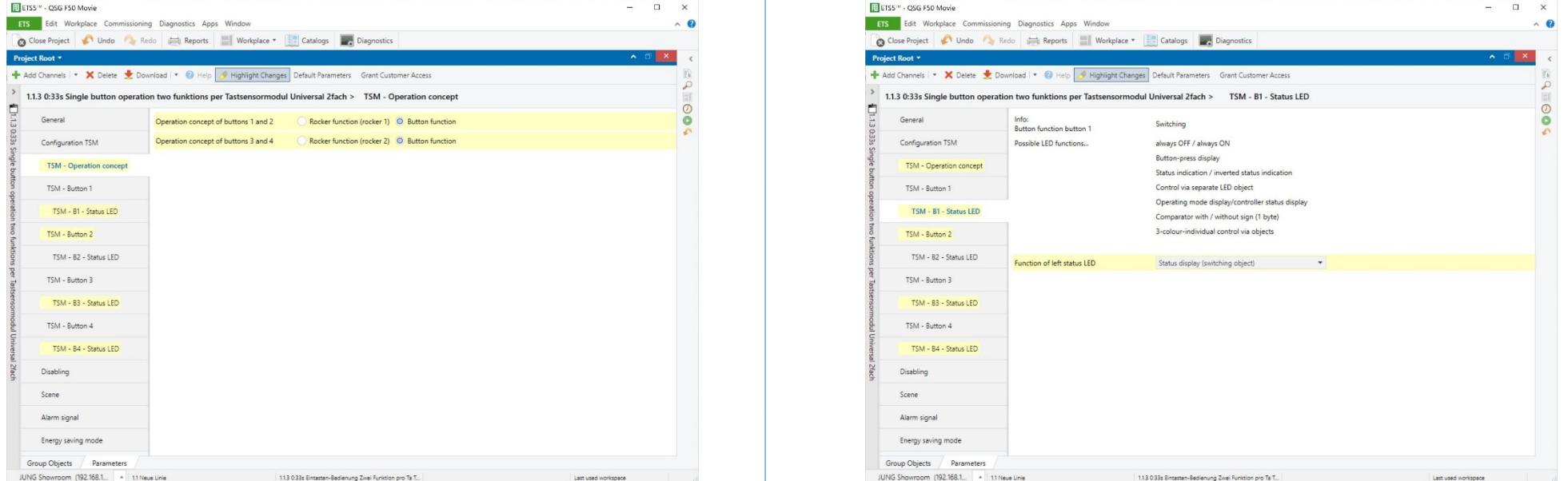
F50 single button operation / two functions per push-button in movie 0:33 s

ONE BUTTON OPERATION

each button with two functions



- Change to the parameter dialog of the KNX push-button sensor
- Open the tab "TSM - Operating concept"
 - Set the parameter "Operating concept of push-buttons 1 and 2" to "Push-button function"
 - Follow the same process with push-buttons 3+4
- Open the tab "TSM - PB1 - Status LED"
 - Set the parameter "Function of left status LED" to "Status display (switch object)"
- Open the tab "TSM - Push-button 2"
 - Set the "Function" parameter to "Value transmitter 1 byte"
 - Set the parameter "Value adjustment via long button press" to "activated"
- Open the tab "TSM - PB3 - Status LED"
 - Set the parameter "Function of left status LED" to "Status display (switch object)"
- Open the tab "TSM - PB4 - Status LED"
 - Set the parameter "Function of right status LED" to "Status display (switch object)"

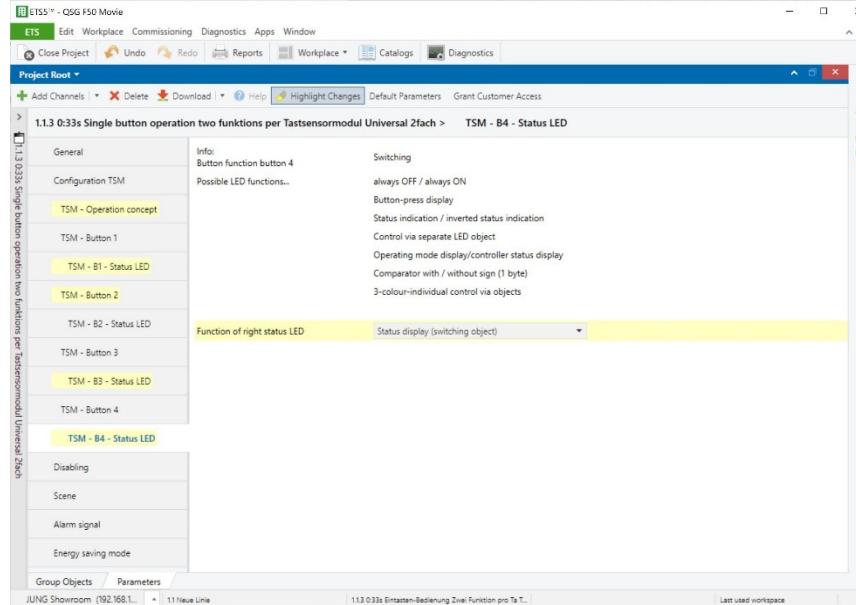


Left Screenshot (TSM - Operation concept tab):

- Function:** Value transmitter 1-byte
- Value (0..255):** 0
- Value adjustment by long button-press:** enabled
- Starting value in case of value adjustment:** same as value from communication object
- Direction of value adjustment:** toggling (alternating)
- Step width (1..15):** 15
- Time between two telegrams:** 0.5 sec
- Value adjustment with overflow ?:** No

Right Screenshot (Info tab):

- Info:**
 - Button function button 3
 - Possible LED functions...
 - always OFF / always ON
 - Button-press display
 - Status indication / inverted status indication
 - Control via separate LED object
 - Operating mode display/controller status display
 - Comparator with / without sign (1 byte)
 - 3-colour-individual control via objects
- Function of left status LED:** Status display (switching object)



1.4. Single button operation / two functions per push-button

F50 single button operation / horizontal installation possible
movie 0:47 s

ONE BUTTON OPERATION

also suitable for horizontal mounting



- Change to the parameter dialog of the KNX push-button sensor
- Open the tab "TSM - Operating concept"
 - Set the parameter "Operating concept of push-buttons 1 and 2" to "Push-button function"
 - Follow the same process with push-buttons 3+4
- Open the tab "TSM - PB1 - Status LED"
 - Set the parameter "Function of left status LED" to "Status display (switch object)"
- Open the tab "TSM - Push-button 2"
 - Set the "Function" parameter to "Value transmitter 1 byte"
 - Set the parameter "Value adjustment via long button press" to "activated"
- Open the tab "TSM - PB3 - Status LED"
 - Set the parameter "Function of left status LED" to "Status display (switch object)"
- Open the tab "TSM - PB4 - Status LED"
 - Set the parameter "Function of right status LED" to "Status display (switch object)"

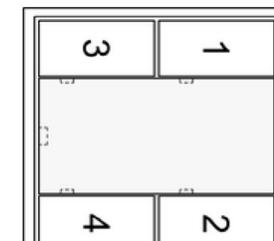
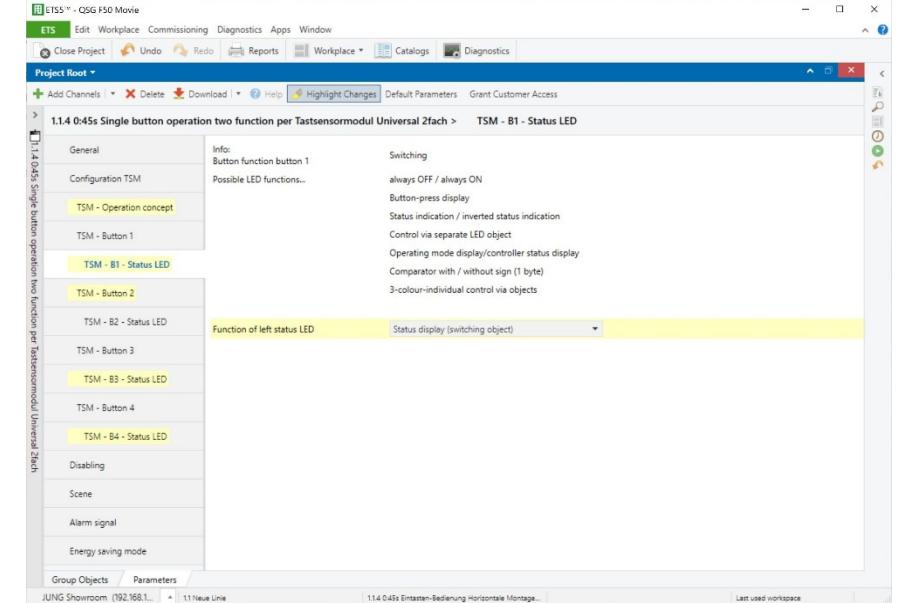
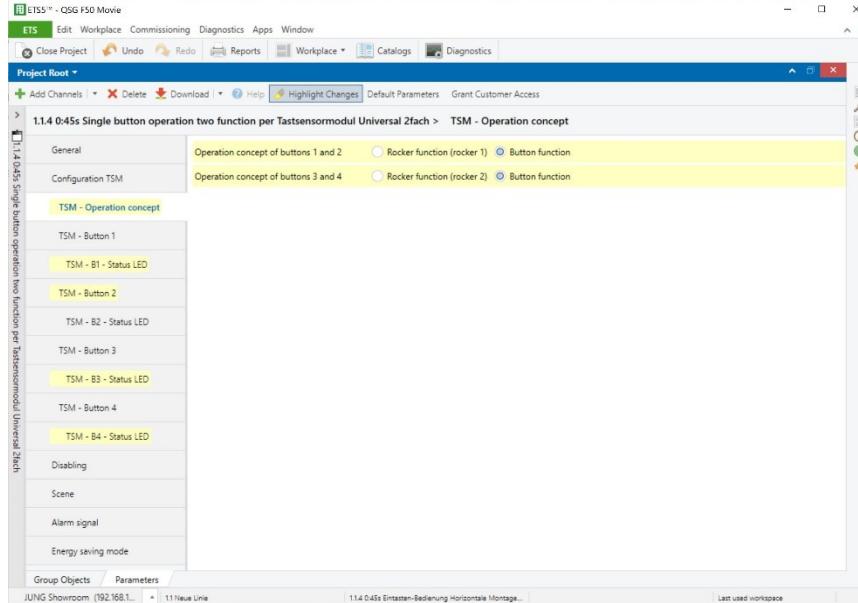
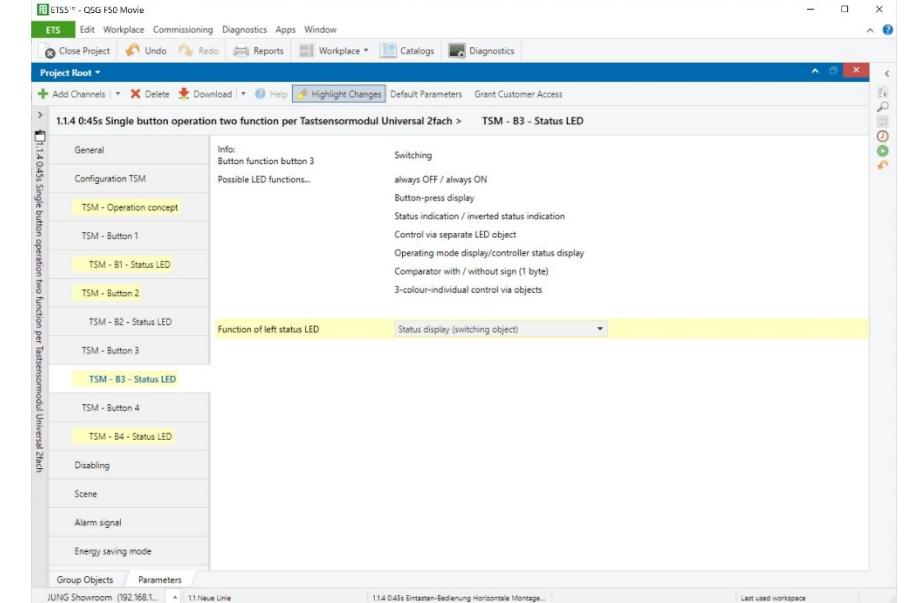
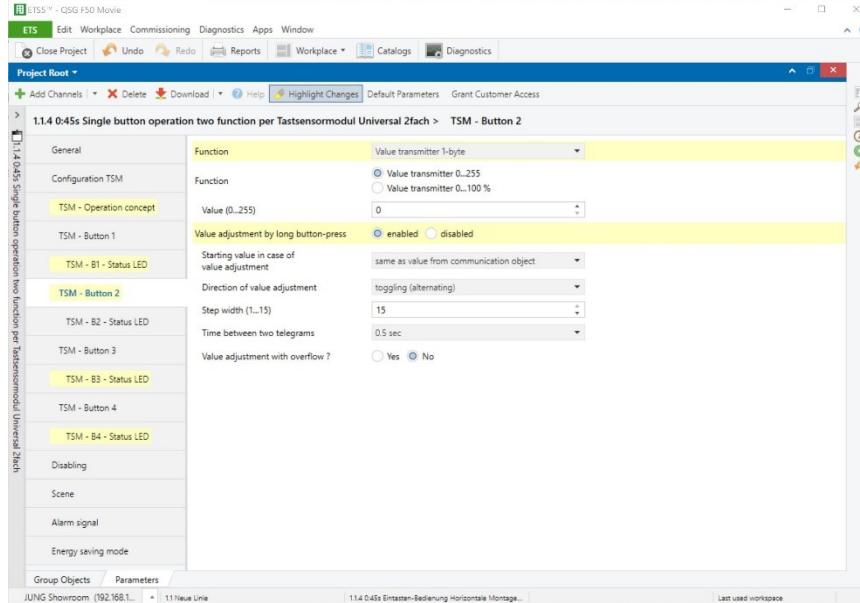
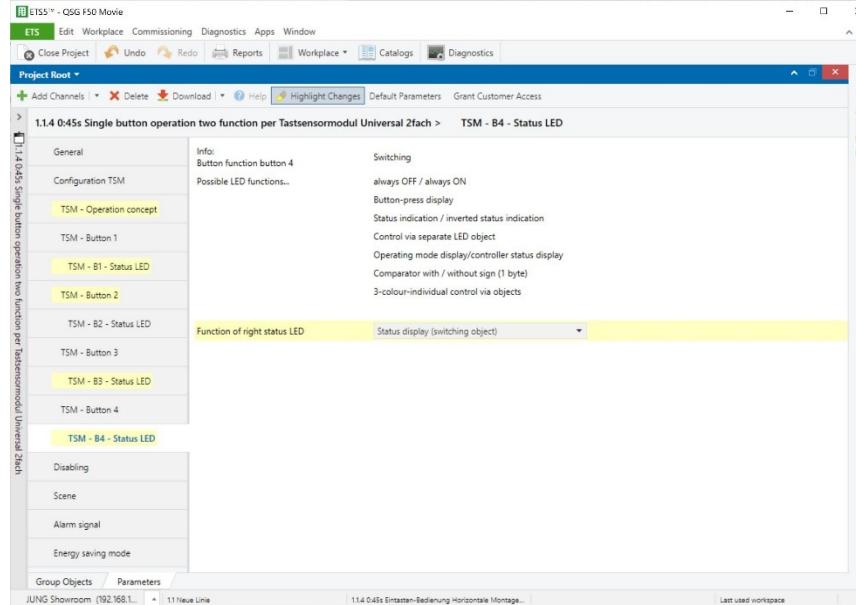


Figure 1 Mounting orientation







1.5. Single button operation / colour control and configurable status LEDs

F50 single button operation / colour control and configurable status LEDs
movie 0:50 s

COLOUR CONTROL parameterizable status LEDs



- Change to the parameter dialog of the KNX push-button sensor
- Open the tab "TSM Configuration"
 - Set the parameter "Colour of all status LEDs" to "Colour selection per status LED"
- Open the tab "TSM - Rocker 1 (push-buttons 1/2)"
 - Set the "Function" parameter to "Dimming"
 - Set the parameter "Command on pressing the left rocker" to "darker (OFF)"
 - Set the parameter "Command on pressing the right rocker" to "brighter (ON)"
- Open the tab "TSM - R1 - Status LED"
 - Set the parameter "Function of right status LED" to "Status display (switch object)"
- Open the tab "TSM - Rocker 2 (push-buttons 3/4)"
 - Set the "Function" parameter to "Dimming"
 - Set the parameter "Command on pressing the left rocker" to "darker (OFF)"
 - Set the parameter "Command on pressing the right rocker" to "brighter (ON)"

F50 single button operation / colour control and configurable
status LEDs
Film 0:50 s

COLOUR CONTROL

parameterizable status LEDs



- Open the tab "TSM - Rocker 3 (push-buttons 5/6)"
 - Set the "Function" parameter to "Dimming"
 - Set the parameter "Command on pressing the left rocker" to "darker (OFF)"
 - Set the parameter "Command on pressing the right rocker" to "brighter (ON)"
- Open the tab "TSM - R3 - Status LED"
 - Set the parameter "Colour of status LED" to "green"
 - Set the parameter "Colour of status LED" to "green"
- Open the tab "TSM - Rocker 4 (push-buttons 7/8)"
 - Set the "Function" parameter to "Dimming"
 - Set the parameter "Command on pressing the left rocker" to "darker (OFF)"
 - Set the parameter "Command on pressing the right rocker" to "brighter (ON)"
- Open the tab "TSM - R4 - Status LED"
 - Set the parameter "Colour of status LED" to "blue"
 - Set the parameter "Colour of status LED" to "blue"

Left Screenshot (Main Configuration):

- General:** Controller extension (disabled), Room temperature measurement (disabled).
- Configuration TSM:**
 - TSM - Operation concept: Function and colour of all Status LEDs (user-defined)
 - TSM - Rocker 1 (Buttons 1/2): Colour of all Status-LEDs (Colour selection per status LED)
 - TSM - R1 - Status LED
 - TSM - Rocker 2 (Buttons 3/4)
 - TSM - R2 - Status LED
 - TSM - Rocker 3 (Buttons 5/6)
 - TSM - R3 - Status LED
 - TSM - Rocker 4 (Buttons 7/8)
 - TSM - R4 - Status LED
- Disabling, Scene, Alarm signal, Energy saving mode:** Standard configuration options.

Right Screenshot (Detailed Configuration):

- General:** Function (Dimming), Command on pressing left rocker (Darker (OFF)), Command on pressing right rocker (Brighter (ON)).
- Configuration TSM:**
 - TSM - Operation concept: Time between switching and dimming (Left rocker: 100...50000 x 1 ms, Right rocker: 100...50000 x 1 ms)
 - TSM - Rocker 1 (Buttons 1/2): Advanced parameters (activated)
 - TSM - R1 - Status LED
 - TSM - Rocker 2 (Buttons 3/4)
 - TSM - R2 - Status LED
 - TSM - Rocker 3 (Buttons 5/6)
 - TSM - R3 - Status LED
 - TSM - Rocker 4 (Buttons 7/8)
 - TSM - R4 - Status LED
- Disabling, Scene, Alarm signal, Energy saving mode:** Standard configuration options.

The image displays two side-by-side screenshots of the ETS (Engineering Tool Suite) software interface, version F50 Movie. Both screenshots show the configuration of TSM (Tastsensormodul) modules.

Screenshot 1 (Left): Configuration of TSM - R1 - Status LED

- General:** Info: Rocker function rocker 1 (Dimming), Possible LED functions: always OFF / always ON, Button-press display, Status indication / inverted status indication, Control via separate LED object, Operating mode display/controller status display, Comparator with / without sign (1 byte), 3-colour-individual control via objects.
- TSM - Operation concept:**
 - TSM - Rocker 1 (Buttons 1/2):** Function: Dimming, Possible LED functions: always OFF / always ON, Button-press display, Status indication / inverted status indication, Control via separate LED object, Operating mode display/controller status display, Comparator with / without sign (1 byte), 3-colour-individual control via objects.
 - TSM - R1 - Status LED:** Function of left status LED: Button-press display, Colour of the status LED: red, Superposed function: enabled.
 - TSM - Rocker 2 (Buttons 3/4):** Function of right status LED: Status display (switching object), Colour of the status LED: red, Superposed function: disabled.
- Disabling, Scene, Alarm signal, Energy saving mode:** Standard configuration options.

Screenshot 2 (Right): Configuration of TSM - Rocker 2 (Buttons 3/4)

- General:** Info: Rocker function rocker 1 (Dimming), Possible LED functions: always OFF / always ON, Button-press display, Status indication / inverted status indication, Control via separate LED object, Operating mode display/controller status display, Comparator with / without sign (1 byte), 3-colour-individual control via objects.
- TSM - Operation concept:**
 - TSM - Rocker 1 (Buttons 1/2):** Function: Dimming, Possible LED functions: always OFF / always ON, Button-press display, Status indication / inverted status indication, Control via separate LED object, Operating mode display/controller status display, Comparator with / without sign (1 byte), 3-colour-individual control via objects.
 - TSM - R1 - Status LED:** Function of left status LED: Button-press display, Colour of the status LED: red, Superposed function: enabled.
 - TSM - Rocker 2 (Buttons 3/4):** Function of right status LED: Status display (switching object), Colour of the status LED: red, Superposed function: disabled.
- Advanced parameters:** Full-surface operation: activated.
- Disabling, Scene, Alarm signal, Energy saving mode:** Standard configuration options.

The image displays two side-by-side screenshots of the ETS software interface, version ETS 5.0. Both screenshots show the configuration of TSM (Tastsensormodul) modules.

Left Screenshot (Configuration TSM - TSM - Rocker 3 (Buttons 5/6)):

- General:** Function is set to Dimming. Command on pressing left rocker is Darker (OFF). Command on pressing right rocker is Brighter (ON). Time between switching and dimming Left rocker (100..50000 x 1 ms) is 400. Time between switching and dimming Right rocker (100..50000 x 1 ms) is 400. Advanced parameters: Full-surface operation is deactivated. Full-surface operation is disabled.
- Configuration TSM:** Info: Rocker function rocker 3. Possible LED functions..: always OFF / always ON. Status indication / inverted status indication. Control via separate LED object. Operating mode display/controller status display. Comparator with / without sign (1 byte). 3-colour-individual control via objects.
- Right Screenshot (Configuration TSM - TSM - R3 - Status LED):**
- General:** Function of left status LED is Button-press display. Colour of the status LED is green. Superposed function is disabled.
- Configuration TSM:** Info: Rocker function rocker 3. Possible LED functions..: always OFF / always ON. Status indication / inverted status indication. Control via separate LED object. Operating mode display/controller status display. Comparator with / without sign (1 byte). 3-colour-individual control via objects.
- Disabling:** Function of right status LED is Button-press display. Colour of the status LED is green. Superposed function is disabled.

Left Screenshot: Configuration of TSM - Rocker 4 (Buttons 7/8)

Setting	Value
Function	Dimming
Command on pressing left rocker	Darker (OFF)
Command on pressing right rocker	Brighter (ON)
Time between switching and dimming Left rocker (100...50000 x 1 ms)	400
Time between switching and dimming Right rocker (100...50000 x 1 ms)	400
Advanced parameters	<input type="radio"/> activated <input checked="" type="radio"/> deactivated
Full-surface operation	<input type="radio"/> enabled <input checked="" type="radio"/> disabled

Right Screenshot: Configuration of TSM - R4 - Status LED

Setting	Value
Info:	Rocker function rocker 4 Possible LED functions..
Dimming	always OFF / always ON Button-press display
TSM - Operation concept	Status indication / inverted status indication Control via separate LED object
TSM - Rocker 1 (Buttons 1/2)	Operating mode display/controller status display Comparator with / without sign (1 byte)
TSM - R1 - Status LED	3-colour-individual control via objects
TSM - Rocker 2 (Buttons 3/4)	
TSM - R2 - Status LED	Function of left status LED Button-press display
TSM - Rocker 3 (Buttons 5/6)	Colour of the status LED blue
TSM - R3 - Status LED	Superposed function <input type="radio"/> enabled <input checked="" type="radio"/> disabled
TSM - Rocker 4 (Buttons 7/8)	Function of right status LED Button-press display
TSM - R4 - Status LED	Colour of the status LED blue Superposed function <input type="radio"/> enabled <input checked="" type="radio"/> disabled