



Product name: ITS push sensor, 1-, 2-, 4fold with controller

Design: Flush-mounting type
1240 xxx single
1243 xxx dual
1247 xxx quad

ETS search path: push button / push button, 1fold / push sensor ITS 1fold with controller

push button / push button, 2fold / push sensor ITS 2fold with controller push button / push button, 4fold / push sensor ITS 4fold with controller

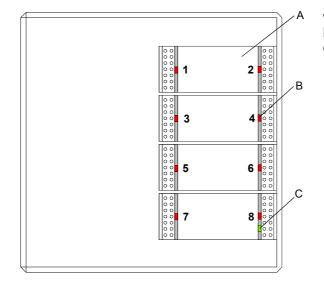
Functional description:

The ITS push sensor is plugged onto a flush-mounted bus coupler (cf. wiring diagram). On pressing of a key, the ITS push sensor transmits telegrams depending on the parameters programmed via the instabus EIB. These may include telegrams for switching or dimming (also single-key dimming) or for blind/shutter control. It is also possible to program value-transmit functions such as dimming value transmitter, light-scene extensions, 2-byte analog value transmitter (temperature or brightness transmitter) or 1-byte universal value transmitter (continuous run between start and target value). The keys or rockers can be independently assigned to the different functions.

The ITS push sensor with controller moreover permits disabling of individual keys or rockers or the complete push sensor. The operation-LED can be switched on or off via an object (in this case, a disabling function is no longer available). On removal of the ITS push sensor from the bus coupler, the device can transmit an alarm message (1 bit or 1 byte).

Illustration: Dimensions: Controls:

e.g. quad-type:



width: 91 mm height: 91 mm depth: 16 mm (without PEI)

with labelling field
B: max. 8 status-LEDs (red) *

C: 1 operation-LED (green) (goes out automatically when the status-LED above lights up)

A: max. 4 rockers* or 8 buttons*

*: depending on project variant

Sensor



Technical data

instabus EIB supply

voltage: 21 – 32 V DC SELV power consumption: typically 150 mW

connection: 2 x 5-pole male connector strip

External supply ---

Input: --Output: ---

Response to mains failures

bus voltage only: object values are deleted, LEDs switch off

mains voltage only: --bus and mains voltage: ---

Response on return of voltage

bus voltage only: no reaction (cf: "Disable object" in software information

mains voltage only: --bus and mains voltage: ---

Type of protection: IP 20 Safety class: III Mark of approval: EIB

Ambient temperature: -5 °C ... +45 °C

Storage / transport temperature: -25 °C ... +70 °C (storage above +45 °C reduces the service life)

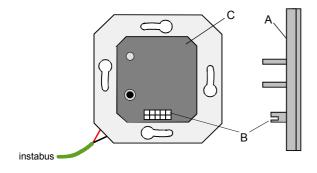
Mounting position: any Minimum distances: none

Type of fastening: plug-in on flush-mounted bus coupler

(please refer to: "Hardware information")

Wiring:



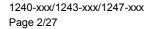




A: ITS push sensor B: user interface C: bus coupler

Hardware information:

• The ITS push sensor with controller may only be plugged into bus couplers of the "new generation" (cf. bus coupler picture above). Plugging the ITS push sensor into older flush-mounted bus couplers results in malfunctions.





Sensor

Software description:

ETS search path:

Gira Giersiepen / push button / push button, 1fold / push sensor ITS 1fold with controller

ETS-symbol:



Applications:

Brief description: Name: Date: Page: Data base

multi-function ITS multi-function ITS 109701 08.04 5 12409190

ETS search path:

Gira Giersiepen / push button / push button, 2fold / push sensor ITS 2fold with controller

ETS-symbol:



Applications:

Brief description: Date: Page: Data base

multi-function ITS multi-function ITS 109601 08.04 5 12439190

ETS search path:

Gira Giersiepen / push button / push button, 4fold / push sensor ITS 4fold with controller

ETS-symbol:

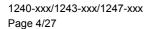


Applications:

Brief description: Date: Page: Data base

multi-function ITS multi-function ITS 109401 08.04 5 12479190









Application:	multi-function ITS 109701 (single)	
	multi-function ITS 109601 (dual)	
	multi-function ITS 109401 (quad)	

Scope of functions General

- Free assignment of the functions Switching / Pushbutton operation, Dimming, shutter / blind, Value transmitter / Light-scene extension, Analog value transmitter and Universal value transmitter EIS 6 (only with rocker function) to the keys or rockers
- Status indication for each key via red LED possible (status indication with rocker function via status objects and status or confirm function with key function possible)
- The status-LEDs can be controlled via objects even if "no function" is assigned to keys or rockers
- Automatic shutoff of operation-LED can be parameterized.
- Operation-LED can be switched via object
- Disable object for disabling of individual keys or rockers available (polarity of disable object presettable)
- Alarm message after removal of device from flush-mounted bus coupler can be parameterized (1 bit or 1 byte)

Switching / pushbutton function

- Command to be performed during press or release of key presettable (ON, OFF, TOGGLE, no function)
- Center press with rocker function possible (only if "Command performed during press on rocker = left = TOGGLE, right = TOGGLE")
- Function of status-LED for key function or status indication for rocker function can be parameterized

Dimming function

- Time between dimming and switching and dim step presettable
- Telegram repetition and transmission of stop telegram possible
- Center press with rocker function possible (only if "Pushbutton function = left = TOGGLE, right = TOGGLE")
- Function of status-LED for key function or status indication for rocker function can be parameterized

Shutter / blind function

- Key function (UP, DOWN) presettable
- Operation sequence parameterizable (STEP MOVE STEP)
- Time between shot-time and long-time operation presettable (only with STEP MOVE STEP)
- Slat adjusting time (time during which a MOVE command can be terminated by releasing the key) presettable
- Function of status-LED for key function or status indication for rocker function can be parameterized

Value transmitter / light-scene extension function (only with key function)

- Key functions value transmitter EIS 6 (1 byte) or light-scene recall with / without storage function can be parameterized
- Value readjust by long press of key possible with value transmitter EIS 6
- Function of status-LED can be parameterized

Analog value transmitter function (only with key function)

- Key functions brightness value transmitter EIS 5, temperature value transmitter EIS 5 and value transmitter EIS 10 can be parameterized
- Value readjust by long press of key possible
- Function of status-LED can be parameterized

Universal value transmitter function EIS 6 (only with rocker function)

- Start-, support- and target value can be parameterized
- The support value divides the value range into two partial ranges. Time base and time factor presettable for one step of the partial ranges
- Number of steps in partial ranges selectable
- Sense of action and response to key-press (start / stop) can be parameterized

Sensor



Description of objects (dynamic object structure):

□⊷	0 - 7	Status:	1 bit object for control of the status-LED of a key or rocker	
머	0 - 7	Switching:	1 bit object for transmission of switching telegrams (ON, OFF)	
<u> </u>	8 - 15	Dimming:	4 bit object for relative change of brightness between 0 and 100 $\%$	
<u> </u>	0 - 7	Short-time operation:	1 bit object for short-time operation of blind/shutter	
-	8 - 15	Long-time operation:	1 bit object for long-time operation of blind/shutter	
-	8 - 15 extensi	Light-scene on:	1 byte object for recall or storage of light-scenes (1 - 64)	
-	8 - 15	Value EIS 6:	1 byte object for transmission of e.g. dimming value telegrams (0 - 255)	
□ I	8 / 10 /	12 / 14		
_,		sal value transmitter	1 byte object for transmission of value telegrams (0 $-$ 255) of universal value transmitter	
_ •	Univers		· · · · · · · · · · · · · · · · · · ·	
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I	Univers EIS 6 8 - 15 8 - 15	sal value transmitter Temp. value EIS 5:	value transmitter 2 byte object for the adjustment of a firm temperature value (0 - 40 °C)	
 	Univers EIS 6 8 - 15 8 - 15	Temp. value EIS 5: Brightn. value EIS 5:	value transmitter 2 byte object for the adjustment of a firm temperature value (0 - 40 °C) 2 byte object for the adjustment of a firm brightness value (0 - 1500 lux)	
 	Univers EIS 6 8 - 15 8 - 15 8 - 15	Temp. value EIS 5: Brightn. value EIS 5: Value EIS 10:	value transmitter 2 byte object for the adjustment of a firm temperature value (0 - 40 °C) 2 byte object for the adjustment of a firm brightness value (0 - 1500 lux) 2 byte object for the transmission of value telegrams (0 - 65535)	
	Univers EIS 6 8 - 15 8 - 15 8 - 15 17	Temp. value EIS 5: Brightn. value EIS 5: Value EIS 10: Switching:	value transmitter 2 byte object for the adjustment of a firm temperature value (0 - 40 °C) 2 byte object for the adjustment of a firm brightness value (0 - 1500 lux) 2 byte object for the transmission of value telegrams (0 - 65535) 1 bit object for the switching of the operation-LED	





The following objects are only applicable if "rocker actuation = key function": Funktion: no function (for all keys *) Objekt Funktion Name Typ Flag	Number	Number of addresses (max.): 25 dynamic table management: Yes ⊠ No □ Number of assignments (max.): 28 maximum table length: 53 Communication objects: max. 18				
Objekt	The follo	owing o	bjects are only applicable if "i	rocker actuation = key function":		
Funktion: Switch / pushbutton function (for all keys*) Objekt Funktion Name Typ Flag		n : no fu				
Funktion: Switch / pushbutton function (for all keys *) Objekt Funktion Name Typ Flag	-					•
Objekt	<u> </u>	0-7	Status	Key 1 – Key 8 *	1 Bit	C, W
O-7 Switch / pushbutton Key 1 − Key 8 * 1 Bit C, W, T		n: Swite		eys *)		
Funktion: Dimming (for all keys *) Name Typ (C, W, T) Flag □ □ □ □ 0-7 Switching (Key 1 – Key 8 * 1 Bit (C, W, T) 1 Bit (C, W, T) 1 Bit (C, W, T) □ □ 8-15 Dimming (For all keys *) 4 Bit (C, W) C, W Funktion: Blind/shutter (for all keys *) Objekt Funktion (Name)	-		Funktion	Name	Тур	Flag
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Objekt Funktion Name Typ Flag □	Funktio	n: Dimn	ning (for all keys *)			
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Brightness value EIS 5 Key 1 – Key 8 * 2 Bytes C, W Funktion: Analog value transmitter (pushbutton function: value transmitter EIS 10 for all keys *) Objekt Funktion Name Typ Flag		n: Analo				
Funktion: Analog value transmitter (pushbutton function: value transmitter EIS 10 for all keys *) Objekt Funktion Name Typ Flag	Objekt					•
Objekt Funktion Name Typ Flag		8-15	Brightness value EIS 5	Key 1 – Key 8 *	2 Bytes	C, W
Objekt Funktion Name Typ Flag	Funktio	n: Analo	og value transmitter (pushbutton	function: value transmitter EIS 10 for	all keys *)	
□ 8-15 Value EIS 10 Key 1 – Key 8 * 2 Bytes C, W					• .	Flag
		8-15	Value EIS 10	Key 1 – Key 8 *	2 Bytes	C, W

^{*} The number of keys or objects depends on the variant projected (single, dual or quad).
The functions: switching / pushbutton, dimming, blind/shutter, light-scene extension and value transmitter can be selected for each key. The names of the communication objects and the object table (dynamic object structure) change accordingly. Key or rocker functions can also be combined.

Sensor



The following obje	cts are only applicable if "rock	er actuation = rocker function	":	
Funktion: no functi	on (for all keys *) Funktion	Name	T	Elea
Objekt □-↓ 1/3/5/7	Status	Rocker 1 – Rocker 4 *	Typ 1 Bit	Flag
		Rocker 1 – Rocker 4	I DIL	C, W
Funktion: Switching		Mana	_	- 1
Objekt	Funktion	Name	Тур	Flag
0/2/4/6	J	Rocker 1 – Rocker 4 *	1 Bit	C, W, T
1/3/5/7	Status	Rocker 1 – Rocker 4 *	1 Bit	C, W
unktion: Dimming				
Objekt	Funktion	Name	Тур	Flag
□← 0/2/4/6	Switching	Rocker 1 – Rocker 4 *	1 Bit	C, W, T
□← 1/3/5/7	Status	Rocker 1 – Rocker 4 *	1 Bit	C, W
8/10/12/14	Dimming	Rocker 1 – Rocker 4 *	4 Bit	C, T
unktion: Blind/shu	utter (for all rockers *)			
Objekt	Funktion	Name	Тур	Flag
0/2/4/6	Short-time operation	Rocker 1 – Rocker 4 *	1 Bit	C, T
		Rocker 1 – Rocker 4 *	1 Bit	C, W
•	Long-time operation	Rocker 1 – Rocker 4 *	1 Bit	C, T
iunktion: Universa	ıl value transmitter EIS 6 (for all r	ockers *)		·
Objekt	Funktion	Name	Тур	Flag
		Rocker 1 – Rocker 4 *	1 Bit	C, W
 : •	Universal value transmitter EIS		1 Byte	C, T
There are no objec	ts for keys or rockers if for all ı		-	
function". The following objection:	cts are available for the disabli	ng function, the operation-LEI	O or the ala	rm
and disal	peration-LED = "ON", "OFF" or "A ple behaviour = "All rockers beha te push sensor disabled" Funktion			disabled" o
□ I 47	Disable	Keys / Rockers	Typ 1 Bit	C, W
		-	i Dil	C, VV
	belling field illumination = "Switch	-	_	Fla.
Objekt 47	Funktion	Name	Тур	Flag
□← 17	Switching	Operation-LED	1 Bit	C, W
	essage "data format 1 bit"			
Objekt	Funktion	Name	Тур	Flag
<u> </u>	Switching	Alarm message	1 Bit	C, T
	essage " data format 1 byte"			
Objekt	Funktion	Name	Тур	Flag

The number of rockers or objects depends on the projected variant (single, dual or quad). The functions: switching / pushbutton, dimming, blind/shutter, light-scene extension and value transmitter can be selected for each key. The names of the communication objects and the object table (dynamic object structure) change accordingly. Key or rocker functions can also be combined.

Alarm message

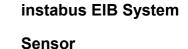


16

Value

1 Byte

C, T





Functional description

Value transmitter EIS 6 / analog value transmitter: readjustment by long key-press

Value transmitters (value transmitter EIS 6 or analog value transmitter) can be parameterized so that the value to be transmitted camn be readjusted by means of a long press on the key (> 5 s). In this case, the programmed value is reduced by the parameterized step and then transmitted. When the key is released, the value last transmitted remains in memory. The next long press on the key changes the direction in which the value is changed.

The status-LED of the key pressed and that of the opposite key are flashing (ca. 3 Hz) when the value is changed (see below). If several variants are available, no further key may be pressed as long as value adjustment is in progress.

Examples for value transmitter EIS 6:

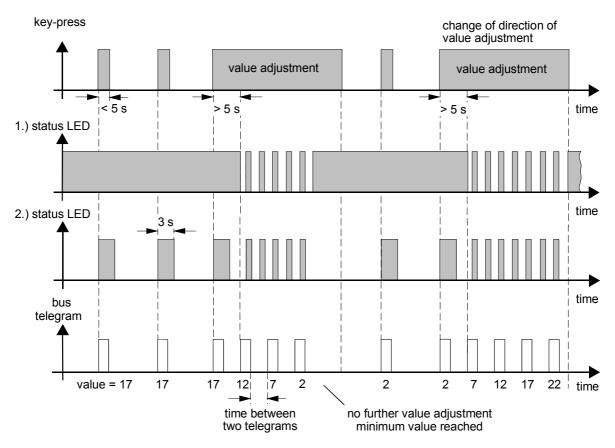
1.) Function of status-LED always ON Dimming value (0...255) 17 Step rate (1...10) 5

⇒ The status LED is on. During value adjustment, it starts flashing as long as value adjustment is in progress.

2.) Function of status-LED key-press confirmation indicator
ON-duration of confirm indicator
3 s

Dimming value (0...255) 17 Step rate (1...10) 5

⇒ The status-LED is lit up for the parameterized time when a key is pressed. During value adjustment, it starts flashing as long as value adjustment is in progress.



Sensor



Important:

It may occur that - during a value change - value "0" is never reached depending on the parameterized step rate (cf. value adjustment example above). This is to ensure that - in the event of a new value adjustment the value originally parameterized with the ETS can again be exactly reached.

Light-scene extension with / without storage function:

In the event of a parametrization as light-scenne extension without storage function, it is possible to call up a light-scene. When the key is pressed, the parameterized light-scene number is transmitted. The status-LED of the key pressed is lit up for the parameterized time if programmed as key-press confirmation indicator.

In the event of a parametrization as light-scenne extension with storage function, it is possible to generate a storage telegram depending on the light-scene to be transmitted. A long key-press > 5 s transmits the corresponding storage telegram. In this case, the status-LED of the key pressed and that of the key opposite will flash (ca. 3 Hz) (see below). No other key may be pressed as long as storage is in progress. A short press on the key < 1 s transmits the parameterized light-scene number (without storage telegram). The status-LED of the key pressed is lit up for the parameterized time if programmed as key-press confirmation indicator. If the key is pressed longer than 1 s, but shorter than 5 s, no telegram will be triggered. In this case, the LED is not switched on if programmed as key-press confirmation indicator.

Examples for light-scene extension with storage function:

1.) Function of status-LED

always ON

⇒ The status LED is always on. During storage, it starts flashing for ca. 3 s.

2.) Function of status-LED

key-press confirmation indicator

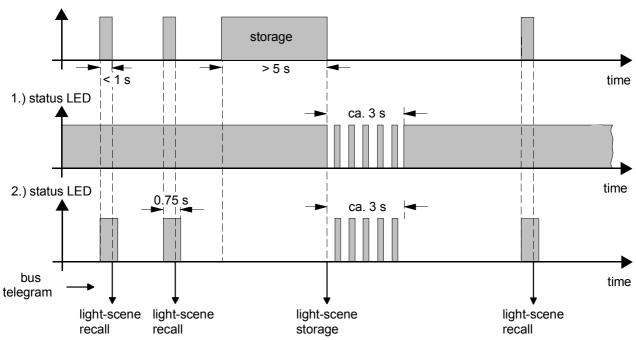
ON-duration of key-press confirmation

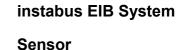
indicator

0.75 s

⇒ The status-LED is lit up for the parameterized time when a key is pressed. During storage, it starts flashing for ca. 3 s.





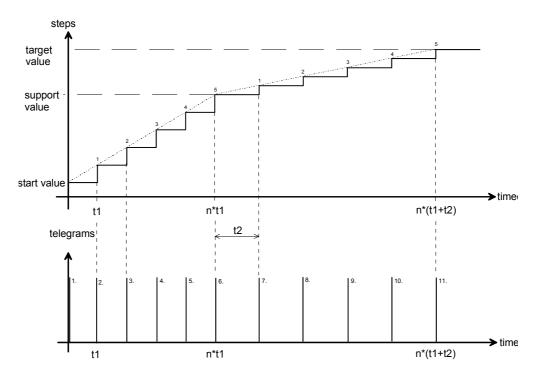




Universal value transmitter EIS 6

The range of values of the universal value transmitter EIS 6 encompasses 8 bits. For this function, a start, a target and a support value in between can be parametrized. The support value divides the range of values between start and target value into two partial ranges. The partial ranges, in turn, are subdivided into a given number of steps which is the same for both partial ranges. For each step of a partial range, a time can be parameterized which predefines after which the next step is to be reached or transmitted. The time is composed of a common base for both partial ranges and of an individual factor for each range.

Example showing the division of the value range and the number of steps for universal value transmitter EIS 6:



- n: number of steps
- t1: time for a step in partial range 1 consisting of time base and time factor 1
- time for a step in partial range 2 consisting of time base and time factor 2

Depending on the parameter "Response to key-press", either the whole range of values can be scanned as long as the respective key is pressed ("Scan as long key is pressed"), or the scan can be started with the first press of the key and stopped with the second press ("Scan start or stop"). In the latter case, it is possible to execute in addition to the scan of the universal value transmitters EIS 6 another rocker or pushbutton function or to have all three universal value transmitters EIS 6 of the individual rockers run at the same time. The scan direction is determined by the "Direction of action" parameter, i.e, it can be defined whether the start or the target value is to be transmitted first on actuation of the left or the right key of a rocker.

Important:

It must be ensured that the start value < support value < target value. If these values are not parameterized as described, the universal value transmitter EIS 6 performs no actions.

In the worst case, the actual time of a step may slightly deviate from the parameterized time. This effect may be present especially in the event of high bus loading. Besides the time deviation, a deviation in the step values is also possible. Since the function is an 8-bit value transmitter without fractional digits in its telegrams, the step division can only be in integer steps, so that slight deviations in the transmitted values have to be taken into account, too. It is also possible that the number of steps has been selected greater than the partial range itself. In this case, the same values may be transmitted several times in succession.



Parameters		
Description:	Values:	Comment:
General		
ON-time of key-press confirm indicator	0.75 s 2.25 s 3 s	Defines the ON-time of the status-LED as key-press confirm indicator.
Operation LED		Defines the function of the operation LED.
	OFF	The operation LED is always off.
	ON	The operation LED is always on.
	automatic shutoff	The operation LED is lit up after a key- press and shut off automatically after the parametrized time.
	switching via object (object = 1 : ON)	The operation LED can be switched via an object. If a "1" is written into the object, the operation LED is on (and vice versa).
	switching via object (object = 1 : OFF)	The operation-LED can be switched via an object. If a "0" is written into the object, the operation-LED is on (and vice versa).
		Important: The operation-LED goes out automatically when the status-LED above lights up. Lighting up of the red status-LED is parameter-dependent.
Automatic shutoff of operation -LED Base	0.5 s 1 s 2.5 s 5 s	Defines the timebase which fixes the time after a key-press during which the operation-LED is on until automatic shutoff.
		Time = Base · Factor
Automatic shutoff of operation-LED Factor (1255)	1 to 255, 10	Defines the time factor which fixes the time after a key-press during which the operation-LED is on until automatic shutoff.
		Time = Base · Factor
		Preset value: 10 · 1 s = 10 s
Alarm function	disabled	On removal of the ITS push sensor from
	enabled	the flush-mounted bus coupler, an alarm message can be sent over the bus. This parameter defines whether the alarm function is enabled or disabled.
Data format	1 bit	Defines the data format of the alarm message.
	1 byte	

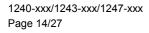




General		
1 bit value	OFF ON	Defines the value of the switching telegram transmitted in the event of an an alarm message. Only with data format = "1 bit".
1 byte value (0255)	0 to 255, 255	Defines the value of the value telegram transmitted in the event of an an alarm message. Only with data format = "1 byte".
Disabling behaviour		
Polarity of disable object	not inverted (disable = 1; enable = 0)	Defines the polarity of the disable object.
	inverted (disable = 0; enable = 1)	
Disabling behaviour		This parameter defines the behaviour of the ITS push sensor when the disable function is active.
	push sensor not disabled	The disable function is deactivated.
	behaviour of all rockers like rocker 14	When the disable function is active, all 4 rockers * of the ITS push sensor des behave like the parametrized one.
	individual rockers disabled	When the disable function is active, individual rockers of the ITS push sensor can be disabled.
	complete push sensor disabled	When the disable function is active, the complete push sensor is disabled.
		*: depending on projected variant
Behaviour like	rocker 1	When the disable function is active, all 4 rockers * of the ITS push sensor behave
	rocker 2	like the parametrized one. Only if disable behaviour = "Behaviour of
	rocker 3	all rockers like rocker 14".
	rocker 4	*: depending on projected variant
Rocker X disabled ? X = 1 to 4 * *: depending on projected variant	YES NO	Defines whether rocker X (X = 1 to 4 *) is disabled when the disable function is active, i.e. a press on the keys (left and right) of this rocker is without function. Only if disable behaviour = "Individual rockers disabled".
		*: depending on projected variant



Actuation		
Rocker X (X = 1 to 4 *) Rocker or key function		Each rocker of the ITS push sensor can be programmed for two key functions or for one rocker function.
*: depending on projected variant	keys	Rocker X (X = 1 to 4 *) is programmed for two independent key functions.
	rockers	Rocker X (X = 1 to 4 *) is programmed for one rocker function.
	without function	Rocker X (X = 1 to 4 *) has no function, i.e. a press on the key (left or right) has no effect and the status-LEDs of this rocker cannot be activated.
		*: depending on projected variant
🗁 Key 1		
Function of key 1	no function switch / pushbutton dimmer shutter / blind value transmitter / light-scene extension analog value transmitter	Defines the function of key 1.
Function of key 1 = "no fu	inction"	
Function of status-LED		If function of key 1 = "No function", only the status-LED of the key can be activated via the corresponding object. A press on the key has no effect.
	always OFF	The status-LED is always off.
	always ON	The status-LED is always on.
	status indication	The status-LED indicates the object status.
	inverted status indication	The status-LED indicates the inverted object status.
Function of key 1 = "switch	:h / pushbutton"	1
Function of status-LED		Defines the function of the status-LED.
	always OFF	The status-LED is always off.
	always ON	The status-LED is always on.
	status indication	The status-LED indicates the object status.
	inverted status indication	The status-LED indicates the inverted object status.
	key-press confirm indication	After a key-press, the status-LED lights up for the parameterized time.









Tunction of key 1 = "switch	ch / pushbutton"	
Command when key is pressed	no function ON OFF TOGGLE	Defines the command transmitted on pressing the key.
Command when key is released	no function ON OFF TOGGLE	Defines the command transmitted on releasing the key.
Function of key 1 = "dimn	ner"	
Function of status-LED		Defines the function of the status-LED.
	always OFF	The status-LED is always off.
	always ON	The status-LED is always on.
	status indication	The status-LED indicates the object status.
	inverted status indication	The status-LED indicates the inverted object status.
	key-press confirm indication	After a key-press, the status-LED lights up for the parameterized time.
Send stop telegram ?	YES NO	On release of the key, a stop telegram is either transmitted or not.
Pushbutton function		Defines the response to a key-press.
	darker (OFF)	A short press triggers an OFF telegram, whereas a long press triggers a dimming telegram (darker).
	brighter (ON)	A short press triggers an ON telegram, whereas a long press triggers a dimming telegram (brighter).
	brighter / darker (TOGGLE)	The internally stored switching state is toggled when the key is pressed briefly. If the the stored state is an ON (OFF) state, an OFF (ON) telegram is sent. After a long key-press, a "darker" telegram is sent after a "brighter" telegram and vice versa.
Increase brightness by	100 % 6 % 50 % 3 % 25 % 1.5 % 12.5 %	Defines the maximum dimming step of a dimming telegram. A dimming telegram can increase the brightness by a maximum of X %. This parameter is dependent on the preset key function.



Function of key 1 = "dimmer"			
Reduce brightness by	100 % 6 % 50 % 3 % 25 % 1.5 % 12.5 %	Defines the maximum dimming step of a dimming telegram. A dimming telegram can reduce the brightness by a maximum of X %. This parameter is dependent on the preset key function.	
Time between switching and dimming Base	130 ms 260 ms 520 ms 1 s	Time after which the function assigned to a long key-press is executed (dimming). Time = Base · Factor	
Time between switching and dimming Factor (1255)	1 to 255, 3	Time after which the function assigned to a long key-press is executed (dimming). Time = Base · Factor Preset value: 130 ms ··3 = 390 ms	
Repeat telegram ?	YES NO	Cyclical repetition of dimming telegram while key is pressed.	
Time between two telegrams	200 ms 750 ms 300 ms 1 s 400 ms 1,5 s 500 ms 2 s	Time between two telegrams with telegram repetition active. A new dimming telegram is sent when this time has elapsed. Only if "repeat telegram ?" = "YES".	
Function of key 1 = " shut	ter / blind"		
Function of status-LED	always OFF	Defines the function of the status-LED. The status-LED is always off.	
	always ON	The status-LED is always on.	
	key-press confirm indication	The status-LED lights up during the parameterized time when a key is pressed.	





Function of key 1 = " s	hutter / blind"	
Operational sequence (Telegram sequence)		Defines the telegram sequence after a key-press.
	Step – Move - Step	Step – Move - Step: press T1 T2 release = STEP no actions
		Pressing the key transmits a STEP command and time T1 (time between short-time and long-time operation) is started. If the key is released within T1, no further telegram will be transmitted. This STEP command serves the purpose of stopping a continuous run in progress.
		If the key is held depressed for a time longer than T1, the sensor transmits automatically a MOVE command after T1 has elapsed and time T2 (slat adjustment time) is started. If the key is then released again within T2, a STEP command is transmitted. This function is used for slat adjustment. T2 should correspond to the time needed for a slat rotation by 180°.
	Move - Step	Move - Step: press T1 release = STEP no actions
		When the key is pressed, a MOVE command is transmitted and time T1 (slat adjustment time) is started. If the key is then released again within T1, a STEP command is transmitted. This function is used for slat adjustment. T1 should correspond to the time needed for a slat rotation by 180°.
Key function	UP	A short press triggers a STEP telegram (UP), whereas a long press triggers a MOVE telegram (UP).
	DOWN	A short press triggers a STEP telegram (DOWN), whereas a long press triggers a MOVE telegram (DOWN).



Function of key 1 = " shu	tter / blind"	
Slat adjustment time Base	8 ms 130 ms 2.1 s 33 s	Time during which MOVE telegram for slat adjustment can be ended by releasing the key. Time = Base · Factor
Slat adjustment time Factor (0255)	0 to 255, 20	Time during which MOVE telegram for slat adjustment can be ended by releasing the key.
		Time = Base · Factor
		Preset value: 130 ms · 20 = 2.6 s
Time between short-time and long-time operation Base	8 ms 130 ms 2.1 s 33 s	Time after which the function assigned to a long key-press is executed. Only with operational sequence = "STEP - MOVE - STEP".
		Time = Base · Factor
Time between short-time and long-time operation Factor (0255)	0 to 255, 46	Time after which the function assigned to a long key-press is executed. Only with operational sequence = "STEP - MOVE - STEP".
		Time = Base · Factor
		Preset value: 8 ms · 46 = 368 ms
Function of key 1 = "value	e transmitter / light-scene extension	"
Function of status -LED		Defines the function of the status-LED.
	always OFF	The status-LED is always off.
	always ON	The status-LED is always on.
	key-press confirm indication	The status-LED lights up during the parameterized time when a key is pressed.
Function as	light-scene recall without storage function light-scene recall with storage function value transmitter EIS 6	Defines the function to be executed.
Light-scene number (1128)	1 to 128, 1	Defines the light-scene number to be transmitted if "function as" = "Light-scene recall with / without storage function".
Value (0255)	0 to 255, 255	Defines the value to be transmitted if "function as" = "Value transmitter EIS 6".





Function of key 1 = "valu	e transmitter / light-scene extension	,II
Value adjustment	enabled disabled	If the key is held depressed for at least 5 s, the actual value is cyclically reduced by the parameteritzed step (see below) and transmitted. After releasing the key, the value last transmitted remains stored. This parameter defines whether value adjustment is possible or not. Only if "Function as" = "Value transmitter EIS 6".
Time between two telegrams	0.5 s; 1 s; 1.5 s; 2 s	Time between two cyclical telegrams after long key-press. Only if "Function as" = "Value transmitter EIS 6".
Steps (110)	1 to 10, 10	Steps by which the set value is being reduced with a long press on the key. Only if "Function as" = "Value transmitter EIS 6".
Tunction of key 1 = "anal	og value transmitter"	
Function of status LED		Defines the function of the status -LED.
	always OFF	The status-LED is always off.
	always ON	The status-LED is always on.
	key-press confirm indication	The status-LED lights up during the parameterized time when a key is pressed.
Function as	brightness value transmitter EIS 5 temperature value transmitter EIS 5 value transmitter EIS 10	Defines the function to be executed.
Brightness value (01500 lux)	0 to 1500 lux in 50 lux steps, ca. 300 lux	Sets the brightness value to be transmitted. Only if "Function as" = "Brigthness value transmitter EIS 5"
Temperature value (040 °C)	0 to 40 °C in 1 °C steps, 20 °C	Sets the temperature value to be transmitted. Only if "Function as" = "Temperature value transmitter EIS 5"
Value (065535)	0 bis 65535, 0	Sets the EIS 10 value to be transmitted. Only if "Function as" = "Value transmitter EIS 10"



Function of key 1 = "analog value transmitter"			
Value adjustment	enabled disabled	If the key is held depressed for at least 5 s, the actual value is cyclically reduced by the parameteritzed step (see below) and transmitted. After releasing the key, the value last transmitted remains stored. This parameter defines whether value adjustment is possible or not.	
Time between two telegrams	0.5 s; 1 s ; 1.5 s; 2 s	Time between two cyclical telegrams after long key-press.	
Step	Temperature value transmitter EIS 5: 1 °C Brightness value transmitter EIS 5: 50 lux Value transmitter EIS 10: 1; 2; 5; 10; 20; 50; 75; 100; 200; 500; 750; 1000	Step by which the set value is reduced after a long press on the key.	
Key 2 see key 1!			
Key 3 see key 1! (depending on projected variant)			
Key 4 see key 1! (depending on projected variant)			
Key 5 see key 1! (depending on projected variant)			
Key 6 see key 1! (depending on projected variant)			
Key 7 see key 1! (depending on projected variant)			
Key 8 see key 1! (depending on projected variant)			





<u></u>		
Rocker 1	1	
Function of rocker 1	no function switch dimmer shutter / blind universal value transmitter EIS 6	Defines the function of rocker 1.
Function of rocker 1 = '	'no function"	
		If function of rocker 1 = "No function", only the status-LED of the rocker can be activated via the corresponding status object. A press on the rocker or key has no effect. No further parameters
Function of rocker 1 = '	"owitch"	The failure: parameters
Command on press of rocker	left =, right = left = ON, right = OFF left = OFF, right = ON left = TOGGLE, right = TOGGLE	Defines the command transmitted during a press on the key.
Permit center press ?	YES NO	Defines whether a center press on the rocker is permitted (left and right key pressed at the same time). Only if "Command on press of rocker = left = TOGGLE, right = TOGGLE"
Function of rocker 1 = '	'dimmer"	
Send stop telegram ?	YES NO	On releasing one of the keys (left or right) a stop telegram is sent or not.
Key function	Left = brighter (ON), right = darker (OFF)	Defines the response when a key of the rocker is pressed. A short key-press (left key) transmits an ON telegram, a long key-press (left key) transmits a dimming telegram (brighter). A short key-press (right key) transmits an OFF telegram, a long key-press (right key) transmits a dimming telegram (darker).
	Left = darker (OFF), right = brighter (ON)	A short key-press (left key) transmits an OFF telegram, a long key-press (left key) transmits a dimming telegram (darker). A short key-press (right key) transmits an ON telegram, a long key-press (right key) transmits a dimming telegram (brighter).
	left = TOGGLE, right = TOGGLE	The internally stored switching state is toggled with a short key-press. If the stored state is ON (OFF), then an OFF (ON) telegram is sent. After a long key-press, a "darker" telegram is transmitted after a "brighter" telegram and vice versa.



Function of rocker 1 = "dimmer"			
Permit center press ?	YES NO		Defines whether a center press on the rocker is permitted (left and right key pressed at the same time). Only if key function = "left = TOGGLE, right = TOGGLE"
Increase brightness by	100 % 50 % 25 % 12.5 %	6 % 3 % 1.5 %	Defines the maximum step of a dimming telegram. With a dimming telegram, the brightness can be increased by a maximum of X %.
Reduce brightness by	100 % 50 % 25 % 12.5 %	6 % 3 % 1.5 %	Defines the maximum step of a dimming telegram. With a dimming telegram, the brightness can be reduced by a maximum of X %.
Time between switching and dimming Base	130 ms 260 ms 520 ms 1 s		Time after which the function assigned to a long key-press (dimming) is executed. Time = Base · Factor
Time between switching and dimming Factor (1255)	1 bis 255, 3		Time after which the function assigned to a long key-press (dimming) is executed. Time = Base · Factor Preset value: 130 ms · 3 = 390 ms
Repeat telegram ?	YES NO		Cyclical repetition of dimming telegram during the key-press.
Time between two telegrams	200 ms 300 ms 400 ms 500 ms	750 ms 1 s 1.5 s 2 s	Time between two telegrams when telegram repetition is active. A new dimming telegram is sent when this time has elapsed. Only if "Repeat telegram ?" = "YES".





Function of rocker 1 = '	'shutter / blind	
Operational sequence (telegram sequence)		Defines the telegram sequence after a key-press.
	Step – Move - Step	Step – Move - Step:
		press T1 T2 release = STEP no actions STEP MOVE
		Pressing the key transmits a STEP command and time T1 (time between short-time and long-time operation) is started. If the key is released within T1, n further telegram will be transmitted. This STEP command serves the purpose of stopping a continuous run in progress.
		If the key is held depressed for a time longer than T1, the sensor transmits automatically a MOVE command after T1 has elapsed and time T2 (slat adjustmentime) is started. If the key is then released again within T2, a STEP command is transmitted. This function is used for slat adjustment. T2 should correspond to the time needed for a slat rotation by 180°.
	Move - Step	Move - Step:
		release = STEP no actions MOVE
		When the key is pressed, a MOVE command is transmitted and time T1 (sla adjustment time) is started. If the key is then released again within T1, a STEP command is transmitted. This function is used for slat adjustment. T1 should correspond to the time needed for a slat rotation by 180°.



Function of rocker 1 = "shutter / blind			
Key function	left = UP, right = DOWN	A short key-press (left key) transmits a STEP telegram (UP), a long key-press (left key) transmits a MOVE telegram (UP). A short key-press (right key) transmits a STEP telegram (DOWN), a long key-press (right key) transmits a MOVE telegram (DOWN).	
	left = DOWN, right = UP	A short key-press (left key) transmits a STEP telegram (DOWN), a long key-press (left key) transmits a MOVE telegram (DOWN). A short key-press (right key) transmits a STEP telegram (UP), a long key-press (right key) transmits a MOVE telegram (UP).	
Slat adjustment time Base	8 ms 130 ms 2.1 s 33 s	Time during which MOVE telegram for slat adjustment can be ended by releasing the key Time = Base · Factor	
Slat adjustment time Factor (0255)	0 to 255, 20	Time during which MOVE telegram for slat adjustment can be ended by releasing the key.	
		Time = Base · Factor	
		Preset value: 130 ms · 20 = 2.6 s	
Time between short-time and long-time operation Base	8 ms 130 ms 2.1 s 33 s	Time after which the function assigned to a long key-press is executed. Only with operational sequence = "STEP - MOVE - STEP".	
		Time = Base · Factor	
Zeit zwischen Kurz- und Langzeitbetrieb Faktor (0255)	0 bis 255, 46	Time after which the function assigned to a long key-press is executed. Only with operational sequence = "STEP - MOVE - STEP".	
		Time = Base · Factor	
		Preset value: 8 ms · 46 = 368 ms	
Function of rocker 1 = "uiversal value transmitter EIS 6"			
Sense of action left key (right key with opposite sense)	run from start to target value run from target to start value	This parameter defines the direction of scan, i.e. it can be defined whether the start or the target value is transmitted first when the left key is pressed. The right key has always the opposite effect.	





Function of rocker 1 = "uiversal value transmitter EIS 6"			
Response to key-press		Defines how the universal value transmitter EIS 6 can be started or stopped.	
	scan as long as key is depressed	As long as the left or right key is held depressed, the universal transmitter EIS 6 transmits values to the bus. When both partial ranges have been scanned and if the key is then still depressed, the transmission of values is stopped.	
	start or stop scan	When the left or right key is pressed, the universal value transmitter EIS 6 transmits values to the bus even if the key is released. Only after the next press of a key will the universal value transmitter EIS 6 be stopped. After both partial ranges have been scanned, the transmission of values is stopped. In this case, the scan restarts after another key-press.	
Number of steps (115) Partial ranges 1 and 2	1 to 15, 10	Defines the number of steps in partial ranges 1 and 2.	
Timebase Partial ranges 1 and 2	approx. 0.6 s approx. 3.2 s approx. 1.2 s approx. 3.8 s approx. 4.5 s approx. 2.4 s	For each step in the partial ranges, a time can be parameterized. This time determines when the next step is reached or transmitted. Defines the common timebase for both partial ranges. Time = Base · Factor	
Time factor (1255) Time for one step in partial range 1	1 to 255, 10	For each step in the partial ranges, a time can be parameterized. This time determines when the next step is reached or transmitted. Defines the time factor for partial range 1 fest. Time = Base · Factor Preset value: 10 · 0.6 s = 6 s	
Time factor (1255) Time for one step in partial range 2	1 to 255, 10	For each step in the partial ranges, a time can be parameterized. This time determines when the next step is reached or transmitted. Defines the time factor for partial range 2. Time = Base · Factor Preset value: 10 · 0.6 s = 6 s	



Function of rocker 1 = "uiversal value transmitter EIS 6"		
Start value (0253) Start value < support value	0 to 253, 0	Defines the start value. The start value must be less than the support value!
Support value (1254) support value < target value	1 to 254, 127	Defines the support value. The support value must be less than the target value!
Target value (2255)	2 to 255, 255	Defines the target value.
Rocker 2 see rocker 1! (d	lepending on projected variant)	
Rocker 3 see rocker 1!	(depending on projected variant)	
Rocker 4 see rocker 1! ((depending on projected variant)	
Status of rocker 1		
Function of rocker 1 = "No function", "Switch", "Dimmer", "Blind/shutter" and "Universal value transmitter EIS 6"		
Indicate status object via	left and right status-LED left status-LED right status-LED inverted left and right status-LED inverted left status-LED inverted right status-LED left and right status-LED always ON left and right status-LED always OFF	Defines the function of the status-LED.
Status of rocker 2 see status of rocker 1 (depending on projected variant)		
Status of rocker 3 see status of rocker 1! (depending on projected variant)		
Status of rocker 4 see status of rocker 1! (depending on projected variant)		





Software information

Dimmer function

For correct functioning of the status-LED during staus reporting, the dimming connected actuator must transmit its status back to the switching object in case of key function or back to the status object in case of rocker function (set Ü flag).

For correct functioning in case of key function (brighter / darker (TOGGLE)), the connected dimming actuator must also transmit its status back to the switching object.

With key function and rocker function, only the switching object is followed up internally and externally. The dimming object (dimming direction) is followed up only internally. When extensions are used (2 or more dimming actuators dimming one lamp), the dimming direction is therefore not always toggled when the key is pressed again.

For two-sided operation with key function, the objects of the combined keys must be assigned the same group address.

• Shutter / blind function

To realize a "complete" shutter / blind function (UP and DOWN) with key function, the step objects and the move objects of the combined keys must be assigned the same group address.

• Value transmitter EIS 6 / analog value transmitter function

During a value adjustment by means of a long key-press, the newly-set values are stored in the RAM only, which means that these values are replaced after a voltage failure or a bus reset by the original ETS-programmed values.

Status indication

The status-LED (when status indication is active) indicates the current status of the switching object for key operation. If a key is pressed (e.g. ON) and if the push sensor does not receive a positive acknowledge signal (IACK) from the adressed actuator, the object status will be updated and the corresponding status-LED lights up.

Disable object

If the polarity of the disable object is parameterized as "inverted (disable = 0; enable = 1)", the push sensor will be disabled immediately on return of bus voltage or a download. In this case, the ITS push sensor is enabled only after the object value of the disable object is equal to "1".