

Product name:	Light scene push button	8gang comfort						
Design:	flush-mounting type (Up)							
ETS search path:	Push button / Push button general / Light scene push button 8gang comfort							
Functional descrip								
When a key is press causing actuators to	Vhen a key is pressed, the light-scene push button 8-gang comfort transmits telegrams via the KNX / EIB ausing actuators to perform the corresponding actions. Depending on the loaded application, up to 8 ght-scenes can be stored and recalled or 4 telegram sequences with a maximum of 8 outputs generated.							
Layout:		Dimensions:	Controls:					
e. g. K1		e.g. K1						
A B T1 T3 T5 T7 C	T2 T4 T6 T8	height: 110 mm width: 70 mm depth:13 mm (without BCU)	A: 4 rockers or 8 push buttons (position: left / right) B: 8 x status LED (red) C: 1 x operation LED (white)					
Technical data								
Type of protection: Safety class: Mark of approval: Ambient temperatu Storage / transport Mounting position: Minimum distances Type of fastening: instabus EIB sup voltage: power consump connection: External supply	III KNX temperature: -5 °C temperature: -25 °C any s: none plug ply 21 – ttion: typic	< / EIB C +45 ℃ ℃ +70 ℃ (storage abov	ted bus coupling unit)					



mains voltage only:bus and mains voltage:Response on return of voltagebus voltage only:nomains voltage only:bus and mains voltage:Input:Output:	reaction	
mains voltage only:bus and mains voltage:Response on return of voltagebus voltage only:nomains voltage only:bus and mains voltage:Input:Output:	reaction	
bus and mains voltage:Response on return of voltagenobus voltage only:nomains voltage only:bus and mains voltage:Input:Output:		
Response on return of voltage bus voltage only:no mains voltage only:bus and mains voltage:Input:Output:		
bus voltage only:nomains voltage only:bus and mains voltage:Input:Output:		
mains voltage only:bus and mains voltage:Input:Output:		
bus and mains voltage:Input:Output:		
Input: Output:		
Output:		
Wiring: Te	rminal connections	
KNX / EIB		A: Light scene push button 8gang comfort B: physical external interface (PEI) C: bus coupling unit (BCU)
Hardware information		
•		



Soft	Software description					
		nt scene push b	outton 8gang c	comfort:	ETS s	ymbol:
ETS search path for light scene push button 8gang comfort: Push button / Push button general / Light scene push button 8gang comfort						4
PEI t	type	01 <sub>Hex</sub>	01 <sub>Dez</sub>	reserved	application 1	06501
		00 <sub>Hex</sub>	00 <sub>Dez</sub>	No adapter used	application 1	06401
App	lications:					
No.	Summarized descr	iption:		Name:		Version:
1	1 Light scene / dimming			Light scene / dimmi	ng 106501	0.1
2	2 Telegram sequence			Telegram sequence	e 106401	0.1



Appl	icatio	n:	1. Light scene / c	dimming 106501		
Executable from mask version:			1.1 onwards			
		addresses (max):	22	dynamic table handling	Yes 🗷 No 🗆	
		i assignments (max):	22	maximum number of assignments	44	
		cation objects:	20			
Obje		Function	Name	Туре	Flag	
<b>_</b> +	0	Brightness value	Output 1	1 byte	W, C, T	
<b>_</b>	0	Switching	Output 1	1 bit	W, C, T	
<b>_</b> +	1	Brightness value	Output 2	1 byte	W, C, T	
<b>_</b> +	1	Switching	Output 2	1 bit	W, C, T	
•	2	Brightness value	Output 3	1 byte	W, C, T	
_₊	2	Switching	Output 3	1 bit	W, C, T	
<b>_</b> •	3	Brightness value	Output 4	1 byte	W, C, T	
<b>_</b> +	3	Switching	Output 4	1 bit	W, C, T	
<b>_</b> +	4	Brightness value	Output 5	1 byte	W, C, T	
<b>_</b> +	4	Switching	Output 5	1 bit	W, C, T	
<b>_</b> +	5	Brightness value	Output 6	1 byte	W, C, T	
_₊	5	Switching	Output 6	1 bit	W, C, T	
_₊	6	Brightness value	Output 7	1 byte	W, C, T	
_₊	6	Switching	Output 7	1 bit	W, C, T	
•	7	Brightness value	Output 8	1 byte	W, C, T	
<b>_</b> +	7	Switching	Output 8	1 bit	W, C, T	
	8	Dimming	Output 1	4 bit	С, Т	
	9	Dimming	Output 2	4 bit	С, Т	
	10	Dimming	Output 3	4 bit	С, Т	
	11	Dimming	Output 4	4 bit	С, Т	
	12	Dimming	Output 5	4 bit	С, Т	
	13	Dimming	Output 6	4 bit	С, Т	
	14	Dimming	Output 7	4 bit	С, Т	
	15	Dimming	Output 8	4 bit	С, Т	
-	16	Cascade	Input	1 byte	W, C	
_₊	17	Extension unit	Input	1 byte	W, C, T	
	18	Cascade	Output	1 byte	С, Т	
<b>_</b> +	19	Lock	In-/Output	1 bit	W, C, T	



#### Object description

⊒⊷∣	0-7	Brightness value:	1 byte object for setting a defined brightness value between 0 and 255
⊒⊷∣	0-7	Switching:	1 bit object for switching of the load
	8-15	Dimming:	4 bit object for relative change of brightness between 0 and 100 $\%$
┛	16	Cascade input:	1 bit input-cascade object for the connection of several light-scene pushbuttons in cascaded operation (Master-Slave).
_₊	17	Extension unit:	1 byte object for controlling the light-scene pushbutton from an extension unit
	18	Cascading output:	1 bit cascading output object for the connection of several light-scene pushbuttons in cascaded operation (master-slave).
_₊	19	Lock:	1 bit object for disableing of the light-scene push button (normal and cascaded operation)

#### Scope of functions

#### General

- 2 operating modes: light-scene mode (with and without cascading) and switching/dimming mode
- Operating level switch-over (light-scene mode switching / dimming mode) by 3-key actuation
- Status indication for each button by means of red LED available
- Operation indication by means of white LED parameterizable
- Disable mode can be activated via object

#### Light scene

- Recalling and storing of 8 light-scenes with 8 output channels each with keys or from extension (1<sup>st</sup> operating level)
- Object types 'switching' (1 bit) or 'brightness' (1 byte) parameterizable for each output channel
- Disableing of individual ouputs possible
- Transmit delay between two values presettable

#### Switching / dimming mode

- Switching / dimming mode (single-key operation) for light-scene adjustment (2<sup>nd</sup> operating level)
- Telegram repetition, transmission of dimming step width and stop telegram parameterizable
- Time after which the long-time operation function is executed presettable
- Change-over time from switching / dimming mode to light-scene functions parameterizable

#### •Cascading

- Combination of several light-scene push buttons to increase the number of available outputs (cascaded operation)
- Single-run or continuous-run operation in cascade available
- Light scene number can be incremented for continuous operation
- Output delay presettable

LSZ 1

1



LSZ 2

LSZ 4

2

### **Functional description Operating levels** The light-scene push button 8gang comfort has two operating levels offering the following functions depending on parametrization:

#### **Operating level 1 (light-scene mode):**

Light scene without storage function:

Key-press recall light-scene

Light scene with storage function:

Short key-press (< 1 s):	recall light-scene
Long key-press (> 5 s):	store light-scene
Key-press (> 1 s - < 5 s):	no function

#### Operating level 2 (Switching / dimming mode):

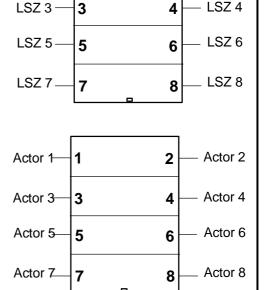
8-channel switching or dimming (single-key operation) for setting or readjusting local light-scenes

Object type output = switching (1 bit)

Key-press switching (TOGGLE)

Object type output = brightness (1 byte) / dimming (4 bits)

Short key-press: switching (TOGGLE) Long key-press: dimming (in opposite direction)



### Setting of local light-scene

Prerequisites:

- "Storage function by local operation" parameter must be set to "enable",

- The read flags of the actuator objects to be stored must be set.

For local adjustment of the parametrized light-scenes proceed as follows:

- switch over to operating level 2: switching / dimming mode  $\Rightarrow$  operation LED flashing,
- switch light-scene by pressing the corresponding key,
- switch over to operating level 1: light-scene mode  $\Rightarrow$  operation LED permanently lit up,
- store local light-scene by long press on the corresponding key (> 5 s),
- the status LED of the key pressed lights up during storage.



# **Operating level switch-over** Changing between operating levels is effected by pressing 3 keys simultaneously (keys 1+5+8). The illustration below explains switching from operating level 1 to level 2 and back. switch-over by pressing 3 keys: press keys 1+5+8 at the same time switch-over by pressing 3 keys: press keys 1+5+8 at the same time for 3 to 8 sec. for 3 to 8 sec. 1st operating level light-scene 2nd operating level switching/dimming 1st operating level light-scene operation-LED 5 5 flashing (280 ms intervals) 8 8 Operating level switch-over with automatic switch-back If the "Switch-over time from dimming to light-scene function" parameter is not set to "manual switch-over", operating level 2 (when activated) is automatically switched back to operating level 1 after the preset time.

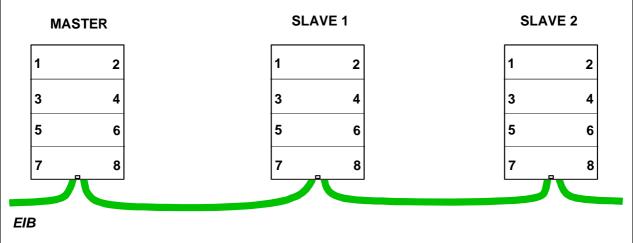


#### **Cascaded operation**

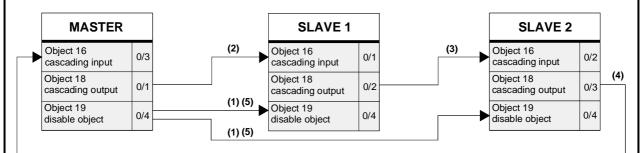
If more than 8 output data channels are required per light-scene, the light-scene push buttons can be cascaded.

This type of operation makes use of the master-slave configuration, i.e. a master unit can be cascaded with several slave units. A device can parameterized to work as master or as slave.

With local operation of a master, all light-scenes (master and slave) are recalled or stored, if the "Local operation" parameter is not set to "local light-scene". With local operation of a slave, however, only the local light-scenes of the slave are recalled or stored. For storing, the "Storage function with local operation" must be set to "enabled".



For cascading, the units must be connected via the cascading in- and outputs in a ring configuration. Faultless operation of the cascaded units moreover requires that all disable objects are linked with one another by means of the same group address.



#### Single-loop operation of a cascade (example: 1 master and 2 slaves)

- 1. Actuation of the master (key-press).
- 2. The master sends a disable telegram (1) to slave 1 and slave 2.
- 3. The master transmits the light-scene data.
- 4. Via the cascading output, the master transmits the corresponding light-scene number (2) to the cascading input of slave 1.
- 5. Slave 1 transmits the corresponding light-scene data.
- 6. Via the cascading output, slave 1 transmits the corresponding light-scene number (3) to the cascading input of slave 2.
- 7. Slave 2 transmits the corresponding light-scene data.
- 8. Via the cascading output, slave 2 transmits the corresponding light-scene number (4) to the cascading input of the master.
- 9. Via the disable object, the master transmits an enable telegram (5) to slave 1 and slave 2.



#### **Endless-loop operation**

Basically, the endless-loop operation is the same as cascaded operation except that master does not send an enable telegram on receiving the light-scene number from the last slave, but rather his local light-scene data and then the light-scene number on to the next slave.

This cycle repeats itself until a key on the master is pressed or the extension activated (control element must be parameterized for endloss-loop operation). When the master then receives again the light-scene number from the last slave, it will stop its data output as in cascaded operation.

Attention: If the endless-loop operation is to be terminated by a key-press on the master, this can be achieved by pressing any of the keys briefly (< 1 s). If the key is pressed longer, the key-press will be interpreted after the end of an endless-loop operation as a new key-press and thus trigger a new recalling or storing cycle.

In endless-loop operation, the master can be parameterized in such a way that it increments the lightscene number after each loop. In this way, special light effects (e.g. running lights) can be realized with only a few light-sene push buttons which are all assigned to the same groups.

An actuation of the slaves only recalls or stores the local light-scenes.



Parameters				
Description:	Values:	Remarks:		
🔁 General				
Function of operating LED	<b>ON</b> OFF	White operation LED lit up when the supply voltage is present (ON) or always off (OFF).		
Light duration of the status LEDs at operation indication	<b>0.75 s</b> 2.25 s 3 s	ON-time of a status LED as confirmation of a key-press		
Memory function at local operation	disabled	Storage function is disabled for local operation.		
	enabled	Light scenes preset on operating level 2 can be stored by a long key-press (> 5 s) on operating level 1.		
Operation with cascading	NO	Cascaded operation not activated.		
	YES; master YES; slave	Light scene push button working in the cascaded mode as master or slave.		
Delay time for light scene transmission (time between two values)	40 ms (instabus recommendation) 60 ms, 80 ms, 100 ms, 200 ms 300 ms (Powerline recommendation) 400 ms, 500 ms, 1 s, 2 s, 4 s	Time between two values of a light-scene.		
Switch-over time between dim operation and light- scene operation	Switch-over manually 5 s, 10 s, 15 s, 20s	Time of switching over from operating level 2 (switching / dimming mode) back to operating level 1 (light-scene mode) only manually by pressing 3 keys at the same time. Switching over from operating level 2 (switching / dimming mode) back to level 1 (light-scene mode) is automatic after x seconds.		



Parameters	Parameters				
Description:	Values:	Remarks:			
🔁 Object types					
Output 1	Switching (1 bit)	Setting of data type for output 1.			
Output 2	Brightness value (1 byte) / Dimming (4 bits)	Setting of data type for output 2.			
Output 3	Dimining (4 bits)	Setting of data type for output 3.			
Output 4		Setting of data type for output 4.			
Output 5	Switching (1 bit)	Setting of data type for output 5.			
Output 6	Brightness value (1 byte) / Dimming (4 bits)	Setting of data type for output 6.			
Output 7	Dimining (4 bits)	Setting of data type for output 7.			
Output 8		Setting of data type for output 8.			

Parameters	Parameters				
Description:	Values:		Remarks:		
🔁 Dimming					
Dimming brighter by	<b>100 %</b> 50 % 25 % 12.5 %	6 % 3 % 1.5 %	With a dimming telegram, the brightness can be increased by x % max.		
Dimming darker by	<b>100 %</b> 50 % 25 % 12.5 %	6 % 3 % 1.5 %	With a dimming telegram, the brightness can be reduced by x % max.		
Telegram repetition	YES NO		Cyclical repetition of dimming telegram during key-press.		
Time between two telegrams	<b>200 ms</b> 300 ms 400 ms 500 ms	750 ms 1 s 1.5 s 2 s	Time between two telegrams when telegram repetition is preset. A new dimming telegram is sent whenever this time has elapsed.		
Time between switching and dimming base	<b>100 ms</b> 300 ms 500 ms		Time after which the long key-press function (dimming) is executed.		
	1 s		Time = base • factor		
Time between switching and dimming	2127, <b>3</b>		Time after which the long key-press function (dimming) is executed.		
Factor (2127)			Default: 130 ms • 3 = 390 ms		
Send a stop telegram ?	YES NO		On releasing of the key, a stop telegram is transmitted / no stop telegram is transmitted.		



Parameters					
Description:	Values:	Remarks:			
Light scene 1 Light scene 2	Light scene 3 Light scene 4	Light scene 5 Light scene 6	Light scene 7 Light scene 8		
Output 1 Output 2 Output 3	<b>ON</b> OFF disabled	Preset selection parameterizatior the correspondir	n "Switching (1 bit)" for		
Output 4	disabled OFF Basic brightness 10 % brightness 20 % brightness 25 % brightness 30 % brightness 30 % brightness 50 % brightness 50 % brightness 70 % brightness 75 % brightness 80 % brightness 90 % brightness 100 % brightness		for object type n "Brightness (1 byte) / " for the corresponding		
Output 5 Output 6 Output 7	ON OFF disabled	Preset selection parameterizatior the correspondir	"Switching (1 bit)" for		
Output 8	disabled OFF Basic brightness 10 % brightness 20 % brightness 25 % brightness 30 % brightness 30 % brightness 50 % brightness 50 % brightness 70 % brightness 80 % brightness 90 % brightness <b>100 % brightness</b>		for object type n "Brightness (1 byte) / " for the corresponding		



Cascading     Local light-scene   When a recall key is pressed, the light-scene push button only outputs its local light-scene.     One time cascade cycle   When a recall key is pressed, the light-scene push button affirst only outputs its local light-scene push button at first only outputs its local light-scene number is received from the last slave, the light-scene push button at first only outputs its local light-scene number is received from the last slave, the light-scene push button at first only outputs its local light-scene number is received from the last slave, the light-scene push button at first only outputs its local light-scene number is operated, the light-scene.     Operation via extension   Local light-scene   When a extension unit is operated, the light-scene number is operation only outputs its local light-scene.     One time cascade cycle   On etime cascade cycle   On operation of the extension unit, the light-scene push button at first only outputs its local light-scene number is an extension unit, the light-scene push button at first only outputs its local light-scene number is only outputs its local light-scene number is an extension unit, the light-scene push button at first only outputs its local light-scene number is only outputs its local light-scene number is the cascading output to the next slave (setting possible only if parameterized as "master").     Unending cascade cycle   Unending cascade cycle   On operation of the extension unit, the light-scene push button at first only outputs its local light-scene number is being received from the	Parameters					
Local light-scene     When a recall key is pressed, the light-scene push button only outputs its local light-scene push button at first only outputs its local light-scene interval text (setting possible only if parameterized as "master").       Unending cascade cycle     When a recall key is pressed, the light-scene push button at first only outputs its local light-scene number via the cascading output to the next slave (setting possible only if parameterized as "master").       Unending cascade cycle     When a recall key is pressed and when a light-scene number is received from the last slave, the light-scene push button at first only outputs its local light-scene. Thereafter, it transmits the corresponding light-scene. Thereafter, it transmits the corresponding light-scene number is received from the last slave, the light-scene. Thereafter, it transmits the corresponding light-scene.       Operation via extension unit is operated, the light-scene.     When an extension unit is operated, the light-scene.       Unending cascade cycle     On operation of the extension unit, the light-scene.       One time cascade cycle     On operation of the extension unit, the light-scene.       Unending cascade cycle     On operation of the extension unit, the light-scene push button at first only outputs its local light-scene number via the cascading output to the next slave (setting possible only if parameterized as "master").       In unending cascade cycle     No       In unending cascade cycle     In unending cascade cycle, the master retains the curresponding light-scene number via the cascading output to the next slave.	Description:	Values:	Remarks:			
One time cascade cycle   push button only outputs its local light-scene.     One time cascade cycle   When a recall key is pressed, the light-scene push button at first only outputs its local light-scene. Thereafter, it transmits the corresponding light-scene number via the cascading output to the next slave (setting possible only if parameterized as "master").     Unending cascade cycle   Unending cascade cycle   When a recall key is pressed, the master is local light-scene number via the cascading output to the next slave (setting possible only if parameterized as "master").     Operation via extension init   Local light-scene   When an extension only outputs its local light-scene number via the cascading output to the next slave (setting possible only if parameterized as "master").     Operation via extension init   Local light-scene   When an extension unit is operated, the light-scene push button at first only outputs its local light-scene push button only outputs its local light-scene push button at first only outputs its local light-scene push button at first only outputs its local light-scene push button at first only outputs its local light-scene push button at first only outputs its local light-scene push button at first only outputs its local light-scene push button at first only outputs its local light-scene number via the cascading output to the next slave.     Unending cascade cycle   After operation from an extension unit, the light-scene number via the cascading output to the next slave.     Internet light-scene   NO   In unending cascade cycle, the master retains the current light-scene number after each loop.     YES	🔁 Cascading					
push button at first only outputs its local light-scene number via the cascading output to the next siave (setting possible only if parameterized as "master").Unending cascade cycleWhen a recall key is pressed and when a light-scene number via the cascading output to the next siave (setting possible only if parameterized as "master").Operation via extension unitLocal light-sceneWhen an extension unit is operated, the light-scene. Thereafter, it transmits the corresponding light-scene number via the cascading output to the next siave (setting possible only if parameterized as "master").Operation via extension unitLocal light-sceneWhen an extension unit is operated, the light-scene. On operation of the extension unit, the light-scene push button at first only outputs its local light-scene. Thereafter, it transmits the corresponding light-scene number via the cascading output to the next siave (setting possible only if parameterized as "master").Unending cascade cycleOn operation of the extension unit, the light- scene number via the cascading output to the next siave (setting possible only if parameterized as "master").Unending cascade cycleAfter operation from an extension unit, the light-scene number is being received from the last slave. Thereafter, it transmits the corresponding light-scene number is being received from the last slave. Thereafter, it transmits the corresponding light-scene number is being received from the last slave. Thereafter, it transmits the corresponding light-scene number is being received from the last slave. Thereafter, it transmits the corresponding light-scene number after each loop.ncrement light-sceneNOIn unending cascade cycle, the master retain light-scen	Local operation	Local light-scene				
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scene push button at first only outputs its local light-scene. Thereafter, it transmits the corresponding light-scene number via the cascading output to the next slave (setting possible only if parameterized as "master").Unending cascade cycleAfter operation from an extension unit, the light-scene push button at first only outputs its local light-scene push button at first only outputs its local light-scene number is being received from the last slave. Thereafter, it transmits the corresponding light-scene number via the cascading output to the next slave (setting possible only if parameterized as "master").ncrement light-sceneNOIn unending cascade cycle, the master retains the current light-scene number after each loop.Delay time of output signal actor (0255)100 ms; 1 s; 10 s; 1 min; 10 	Operation via extension unit	Local light-scene	light-scene push button only outputs its local			
Increment light-sceneNOIn unending cascade cycle, the master retains the current light-scene number after each loop.NOIn unending cascade cycle, the master retains the current light-scene number after 		One time cascade cycle	scene push button at first only outputs its local light-scene. Thereafter, it transmits the corresponding light-scene number via the cascading output to the next slave (setting			
YESIn unending cascade cycle, the master increments the light-scene number after each loop.Delay time of output signal base100 ms; 1 s; 10 s; 1 min; 10 minIn unending cascade cycle, the master increments the light-scene number after each loop.Delay time of output signal factor (0255)100 ms; 2 s; 10 s; 1 min; 10 minTime between output of own light-scene and transmission to cascading output. 		Unending cascade cycle	light-scene push button at first only outputs its local light-scene when a recall key is pressed or when a light-scene number is being received from the last slave. Thereafter, it transmits the corresponding light-scene number via the cascading output to the next slave (setting possible only if			
Delay time of output signal base100 ms; 1 s; 10 s; 1 min; 10 minincrements the light-scene number after each loop.Delay time of output signal factor $(0255)$ 100 ms; 1 s; 10 s; 1 min; 10 minTime between output of own light-scene and transmission to cascading output. Output delay = basis • factor Time between output of own light-scene and transmission to cascading output. Default value = 100 ms $\cdot 2 \approx 200$ msSoftware remarks	Increment light-scene	NO	retains the current light-scene number after			
Delay time of output signal base100 ms; 1 s; 10 s; 1 min; 10 minTime between output of own light-scene and transmission to cascading output. Output delay = basis • factor Time between output of own light-scene and transmission to cascading output. Output delay = basis • factor Time between output of own light-scene and transmission to cascading output. Default value = 100 ms · 2 ≈ 200 msSoftware remarks		YES	increments the light-scene number after			
Delay time of output signal actor (0255)   0255, 2   Time between output of own light-scene and transmission to cascading output.     Default value = 100 ms · 2 ≈ 200 ms	Delay time of output signal base		Time between output of own light-scene and transmission to cascading output.			
	Delay time of output signal factor (0255)	0255, <b>2</b>	Time between output of own light-scene and transmission to cascading output.			
	Software remarks		1			
		encertian level 0 (if a stire to 1)				



Appli	catio	<b>n:</b> 2.	Telegram seque	ence 106401	
Exec	utable	e from mask version: 1.1			
Numb	ber of	f addresses (max): 10		dynamic table handling	Yes 🗷 No 🗆
		f assignments (max): 10		maximum lenght of table	20
		cation objects: 10	1		
Objec		Function	Name	Туре	Flag
	0	Switching	Output 1	1 bit	W, C, T
<b>_</b> +	0	Value transmitter 1 byte	Output 1	1 byte	W, C, T
<b>_</b> +	0	Value transmitter 2 bytes	Output 1	2 bytes	W, C, T
_↓	1	Switching	Output 2	1 bit	W, C, T
_↓	1	Value transmitter 1 byte	Output 2	1 byte	W, C, T
•	1	Value transmitter 2 bytes	Output 2	2 bytes	W, C, T
•	2	Switching	Output 3	1 bit	W, C, T
┛	2	Value transmitter 1 byte	Output 3	1 byte	W, C, T
∎	2	Value transmitter 2 byte	Output 3	2 bytes	W, C, T
ļ	3	Switching	Output 4	1 bit	W, C, T
Ļ	3	Value transmitter 1 byte	Output 4	1 byte	W, C, T
Ļ	3	Value transmitter 2 bytes	Output 4	2 bytes	W, C, T
•	4	Switching	Output 5	1 bit	W, C, T
	4	Value transmitter 1 byte	Output 5	1 byte	W, C, T
•	4	Value transmitter 2 bytes	Output 5	2 bytes	W, C, T
┛	5	Switching	Output 6	1 bit	W, C, T
ļ	5	Value transmitter 1 byte	Output 6	1 byte	W, C, T
•	5	Value transmitter 2 bytes	Output 6	2 bytes	W, C, T
•	6	Switching	Output 7	1 bit	W, C, T
Ļ	6	Value transmitter 1 byte	Output 7	1 byte	W, C, T
•	6	Value transmitter 2 bytes	Output 7	2 bytes	W, C, T
•	7	Switching	Output 8	1 bit	W, C, T
	7	Value transmitter 1 byte	Output 8	1 byte	W, C, T
•	7	Value transmitter 2 bytes	Output 8	2 bytes	W, C, T
•	8	Extension unit	Input	1 byte	W, C, T
	9	Alarm message	User module	1 bit	C, T
			-	•	



Object description				
□₊ 0-7	Switching: 1-bit object for switching of a load			
□₊ 0-7	Value transmitter 1 byte:	1-byte object for value transmit applications (0-255)		
□₊ 0-7	Value transmitter 2 bytes:	2-byte object for value transmit applications (0-65535)		
□₊ 8	Extension unit:	1-byte object for control of light-scene push button from extension unit		
<mark> </mark>   9	Alarm message:	1-bit object for transmission of alarm message		

#### Scope of functions

#### **Telegram sequence**

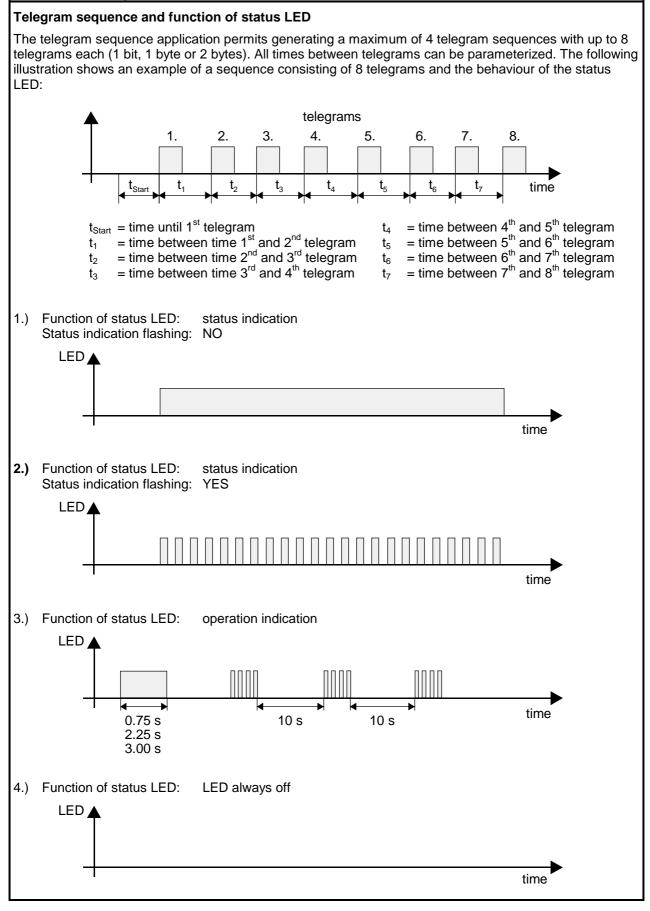
- 4 telegram sequences with up to 8 outputs respectively
- Object types supported: 1 bit, 1 byte, 2 bytes
- Operation from extension unit possible
- Storage function for value selectable by long key-press
- Succession of telegrams and all times between telegrams individually parameterizable
- Multiple repetition of telegram sequences and cascading of telegram sequences possible
- Alarm message after withdrawal of device from flush-mounted bus coupler parameterizable
- Disable function by 4-digit parametrizable key code

#### General

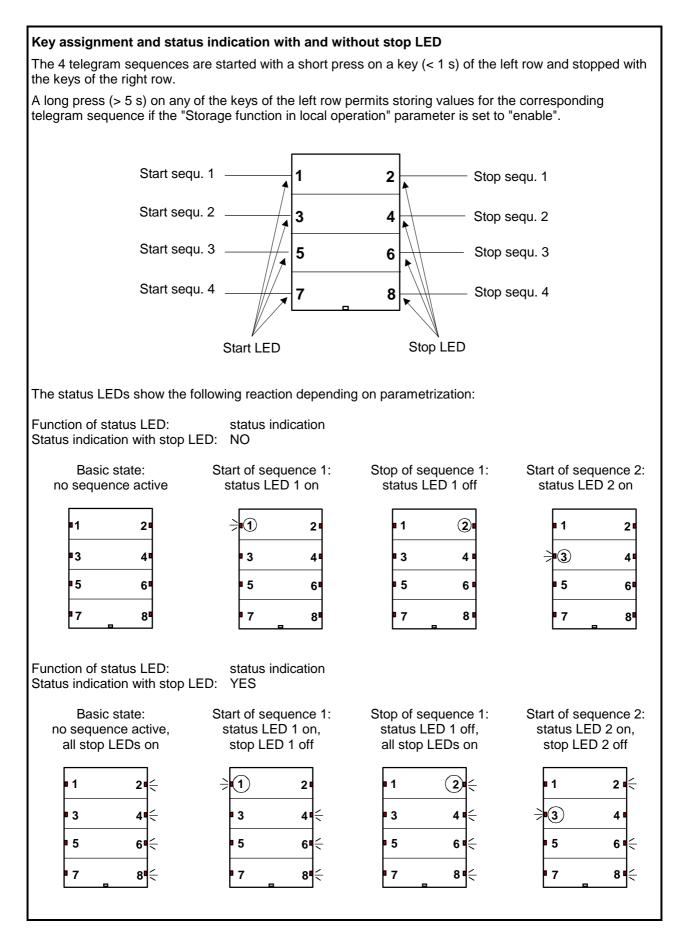
- Status indication for each key by red LED
- Operation indication by white LED parameterizable



#### Functional description





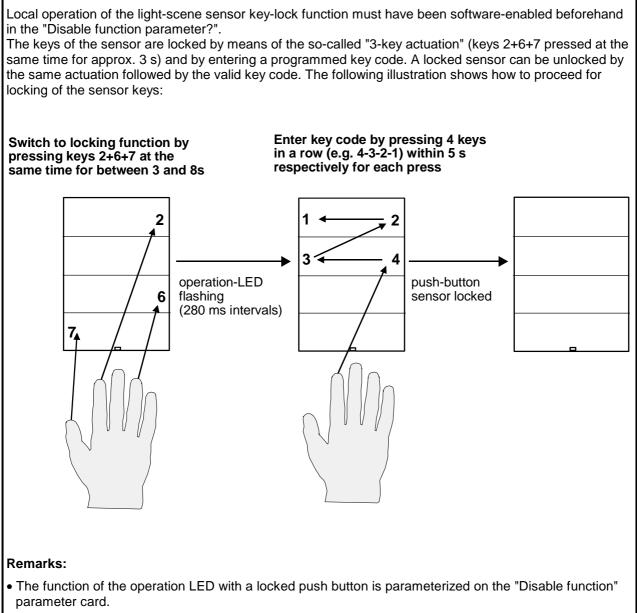




#### Cascading The 4 telegram sequences can be cascaded in any order of succession. In this case, the parameter "Recall of sequence after end of sequence" recalls the next telegram sequence after the preceding one has ended. The time between sequences is derived from the parameter "Time to 1<sup>st</sup> telegram". telegram sequence 2 telegram sequence 4 telegram sequence 1 with 8 telegrams with 3 telegrams with 4 telegrams 1. 2. 3. 4. 5. 6. 7. 8. 1. 2. 3. 1. 2. 3. 4. time t<sub>Start</sub> t<sub>Start</sub> sequence 1 sequence 2 sequence 3 Fig: Cascading of sequences 1, 2 and 4 containing a different number of telegrams Multiple runs of the same telegram sequence A telegram sequence can repeat itself several times. The number of repetitions is fixed by the parameter "Number of sequences (0...255)". The "Time between last and 1st telegram" can be parametrized. telegram sequence telegram sequence 1 (1st run) (2nd run) 1. 2. 3. 4. 5. 6. 7. 8. 1. 2. 3. 4. 5. 6. 7. 8. t<sub>Pause</sub> Fig.: 2 Runs of telegram sequence 1



#### Key-lock by code





### Changing the key code Key code change by local operation of the push button must have been software-enabled beforehand in the "Push button code adjustment by local operation" parameter. The key code is changed by means of the so-called "3-key actuation, i.e. pressing 2+6+7 for at least 8 s followed by the entry of the old key code. This is confirmed by all 8 status LEDs flashing at the same time. The new code can be entered thereafter. The following illustration shows how to change the key code: Enter old key code Enter new key code: Switch to changing the key code (e. g. 6-7-1-2) operation-LED switches off briefly (e. g. 4-3-2-1) by pressing keys 2+6+7 at the same time for min. 8 s 2 2 1 2 1 3 4 operation-LED 8 status-LED flashing 6 flashing 6 (120 ms intervals) 7₄ 7 🔺 **Remarks:** • The key code can also be changed when the light-scene sensor is locked.

- The changed code is valid also after return of the bus voltage.
- A key code that has been forgotten by the user can only be replaced by reprogramming with the ETS.



# 



Parameters		
Description:	Values:	Remarks:
🔁 General	Γ	
Function of operation LED	ON OFF	The white operation LED is lit up after arrival of supply voltage (ON) or always off (OFF).
Function of status LED	key-press confirmation	When a key is pressed, the corresponding status LED lights up for the time specified under "LED on-time after key-press". If the transmitted telegram sequence lasts longer than 10 seconds, the status LED flashes four times every ten seconds (cf. functional description).
	LED always OFF	During transmission of a telegram sequence, the corresponding status LED of the upper key row is lit up (start sequence 1-4) (cf. functional description).
		The status LED is always off.
Light duration of status LED at operating indictaion	<b>0.75 s</b> 2.25 s 3 s	On-time of status LED for confirmation of key- press
Status indication in case of sequence stop ?	YES	During each non-active sequence, the corresponding status LED of the lower key row (stop sequence 1-4) is lit up. When a sequence is activated, the corresponding status LED of the upper key row lights up, whereas the corresponding status LED of the lower key row is extinguished.
	NO	The 4 status LEDs of the lower key row are always off (cf. functional description).
Status LED flashes in case of active active telegram sequence?	NO	During transmission of a telegram sequence, the corresponding status LED of the upper key row is lit up (start sequence 1-4).
	YES	During transmission of a telegram sequence, the corresponding status LED of the upper key row flashes (start sequence 1-4) (cf. functional description).
Memory function at local operation	disabled	The storage function is disabled for local operation.
	enabled	A long press (> 5 s) on a key of the upper row permits storing of values for the corresponding telegram sequence. In this case, the read flags of the actuator objects to be stored must be set.
Alarm function?	YES NO	With the alarm function activated, the device transmits a telegram via object 9 when the light-scene push button is withdrawn from the flush-mounted bus coupler. The telegram value can be specified on the "Alarm" parameter card.



Block function?	NO YES	The light-scene push button can be disabled by a 3-key actuation. In this case, none of the
		keys triggers an action.

Parameters			
Description:	Values:	Remarks:	
Object types			
Output 1	Switching (1 bit)	Setting of data type for output 1.	
Output 2	Value transmitter 1 byte Value transmitter 2 bytes	Setting of data type for output 2.	
Output 3		Setting of data type for output 3.	
Output 4		Setting of data type for output 4.	
Output 5		Setting of data type for output 5.	
Output 6		Setting of data type for output 6.	
Output 7		Setting of data type for output 7.	
Output 8		Setting of data type for output 8.	
Display the consecutive sequence and time of Sequence 2 Sequence 3 Sequence 4		The ETS only displays the parameter cards for the succession and the times of the sequence preset.	

Parameters			
Description:	Values:	Remarks:	
Sequence 1 - values Sequence 2 - values		Sequence 3 - values Sequence 4 - values	
Value 1 (01), (0255), (065535) Value 2 (01), (0255), (065535) Value 3 (01), (0255), (065535) Value 4 (01), (0255), (065535) Value 5 (01), (0255), (065535) Value 7 (01), (0255), (065535) Value 7 (01), (0255), (065535) Value 8 (01), (0255), (065535)	0255, <b>255</b> (only for value transmitter 1 byte)	Input of the 8 values of sequence x (x = 1-4) The value ranges result from the parameterized object types as follows: - switching 1 bit 01 - value transmitter 1 byte 0255 - value transmitter 2 bytes 065535	



Parameters				
Description: Values:		Remarks:		
Sequence 1 – applicat Sequence 2 - applicati		Sequence 3 - application flow Sequence 4 - application flow		
Application flow of telegrams	parameterizable	The succession of telegrams in sequence x $(x = 1-4)$ can be programmed with parameter "1 <sup>st</sup> telegram" to "8 <sup>th</sup> telegram".		
	random	The succession of telegrams in sequence x (x = 1-4) is random		
Number of telegrams	18, <b>8</b>	Setting the number of telegrams for sequence x (x = 1-4)		
1 <sup>st</sup> telegram 2 <sup>nd</sup> telegram 3 <sup>rd</sup> telegram 4 <sup>th</sup> telegram 5 <sup>th</sup> telegram 6 <sup>th</sup> telegram 7 <sup>th</sup> telegram 8 <sup>th</sup> telegram	output 1 (default 1 <sup>st</sup> telegram) output 2 (default 2 <sup>nd</sup> telegram) output 3 (default 3 <sup>rd</sup> telegram) output 4 (default 4 <sup>th</sup> telegram) output 5 (default 5 <sup>th</sup> telegram) output 6 (default 6 <sup>th</sup> telegram) output 7 (default 7 <sup>th</sup> telegram) output 8 (default 8 <sup>th</sup> telegram)	Assignment of the 8 possible telegrams to the 8 outputs. These parameters are relevant only if "Succession of of telegrams" is set to "parameterizable".		



Parameters			
Description:	Values:	Remarks:	
Sequence 1 - times 1- Sequence 2 - times 1-		Sequence 3 - times 1-4 Sequence 4 - times 1-4	
Number of sequences (0255) (0 = cyclic)	0255, <b>1</b>	Number of runs for sequence $x (x = 1-4)$	
Call up next sequence after the last sequence is expired	<b>No</b> Sequence 1 Sequence 2 Sequence 3 Sequence 4	After the end of sequence x (x = 1-4), either sequence y (y = 1-4) or none can be called up automatically.	
Time to 1 <sup>st</sup> telegram base	40 ms   1 min     100 ms   10 min     1 s   30 min     5 s   1 h	Time to $1^{st}$ telegram of sequence x (x = 1-4) time = base • factor	
Time to 1 <sup>st</sup> telegram factor (130)	130, <b>10</b>	Time to 1 <sup>st</sup> telegram of sequence x (x = 1-4) default: 100 ms • 10 $\approx$ 1 s	
Time between - 1 <sup>st</sup> and 2 <sup>nd</sup> telegram - 2 <sup>nd</sup> and 3 <sup>rd</sup> telegram - 3 <sup>rd</sup> and 4 <sup>th</sup> telegram base	40 ms 1 min <b>100 ms</b> 10 min 1 s 30 min 5 s 1 h	Time between - 1 <sup>st</sup> and 2 <sup>nd</sup> telegram of sequence x (x = 1-4) - 2 <sup>nd</sup> and 3 <sup>rd</sup> telegram of sequence x (x = 1-4) - 3 <sup>rd</sup> and 4 <sup>th</sup> telegram of sequence x (x = 1-4) time = base • factor	
Time between - 1 <sup>st</sup> and 2 <sup>nd</sup> telegram - 2 <sup>nd</sup> and 3 <sup>rd</sup> telegram - 3 <sup>rd</sup> and 4 <sup>th</sup> telegram factor (130)	130, <b>10</b>	Time between - 1 <sup>st</sup> and 2 <sup>nd</sup> telegram of sequence x (x = 1-4) - 2 <sup>nd</sup> and 3 <sup>rd</sup> telegram of sequence x (x = 1-4) - 3 <sup>rd</sup> and 4 <sup>th</sup> telegram of sequence x (x = 1-4) default: 100 ms • 10 $\approx$ 1 s	

Parameters			
Description:	Values:	Remarks:	
Sequence 1 - times 5-8 Sequence 2 - times 5-8		Sequence 3 - times 5-8 Sequence 4 - times 5-8	
Time between - 4 <sup>th</sup> and 5 <sup>th</sup> . telegram - 5 <sup>th</sup> and 6 <sup>th</sup> telegram - 6 <sup>th</sup> and 7 <sup>th</sup> telegram - 7 <sup>th</sup> and 8 <sup>th</sup> telegram - last and 1 <sup>st</sup> telegram base	40 ms 1 min 100 ms 10 min 1 s 30 min 5 s 1 h	Time between - 4 <sup>th</sup> and 5 <sup>th</sup> . telegram of sequence x (x = 1-4) - 5 <sup>th</sup> and 6 <sup>th</sup> telegram of sequence x (x = 1-4) - 6 <sup>th</sup> and 7 <sup>th</sup> telegram of sequence x (x = 1-4) - 7 <sup>th</sup> and 8 <sup>th</sup> telegram of sequence x (x = 1-4) - last and 1 <sup>st</sup> telegram of sequence x (x = 1-4) time = base • factor	
Time between - 4 <sup>th</sup> and 5 <sup>th</sup> . telegram - 5 <sup>th</sup> and 6 <sup>th</sup> telegram - 6 <sup>th</sup> and 7 <sup>th</sup> telegram - 7 <sup>th</sup> and 8 <sup>th</sup> telegram - last and 1 <sup>st</sup> telegram factor (130)	130, <b>10</b>	Time between - 4 <sup>th</sup> and 5 <sup>th</sup> . telegram of sequence x (x = 1-4) - 5 <sup>th</sup> and 6 <sup>th</sup> telegram of sequence x (x = 1-4) - 6 <sup>th</sup> and 7 <sup>th</sup> telegram of sequence x (x = 1-4) - 7 <sup>th</sup> and 8 <sup>th</sup> telegram of sequence x (x = 1-4) - last and 1 <sup>st</sup> telegram of sequence x (x = 1-4) default: 100 ms • 10 $\approx$ 1 s	

Values:

Parameters Description:

Remarks:



Parameters   In the event of an alarm via object 9.     Parameters   Parameters     Description:   Values:   Remarks:     Image: Comparison of operating LED at block function   LED permanently OFF LED permanently ON Flashing   When the light-scene push button is disabled, the operation LED is always OFF, always ON or in a flashing mode.     Extension unit at block operation   enabled   The disabled light-scene push button ca still be operated from an extension. In disabled state, light-scene push button cannot be operated from the extension either.     1 <sup>st</sup> push button   Push button 1   Push button 5   Defines the 1 <sup>st</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     2 <sup>nd</sup> push button   Push button 1   Push button 5   Defines the 2 <sup>nd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     2 <sup>nd</sup> push button   Push button 1   Push button 5   Defines the 2 <sup>nd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     3 <sup>rd</sup> push button   Push button 1   Push button 5   Defines the 3 <sup>rd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     3 <sup>rd</sup> push button   Push button 1   Push button 6   Defines the 4 <sup>rd</sup> key of the key code. The key code is used for activating the disab function of the light	Description:	values:		Remarks:
Image: Parameters Image: Parameters   Description: Values: Remarks:   Image: Parameters Parameters   Push button 1 Push button 5	🔁 Alarm			
Description:     Values:     Remarks:       Pilock function     Exension of operating LED at block function     LED permanently OFF LED permanently ON Flashing     When the light-scene push button is disabled, the operation LED is always OFF, always ON or in a flashing mode.       Extension unit at block operation     enabled     The disabled light-scene push button cannot be operated from the extension.       1 <sup>st</sup> push button     Push button 1     Push button 5     Push button 6       1 <sup>st</sup> push button     Push button 1     Push button 5     Defines the 1 <sup>st</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.       2 <sup>nd</sup> push button     Push button 1     Push button 5     Defines the 1 <sup>st</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.       3 <sup>nd</sup> push button     Push button 1     Push button 5     Defines the 2 <sup>nd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.       3 <sup>nd</sup> push button     Push button 1     Push button 5     Defines the 3 <sup>rd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.       4 <sup>th</sup> push button     Push button 1     Push button 5     Defines the 4 <sup>th</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button. <tr< td=""><td colspan="2"></td><td>Defines the value of the telegram issued in the event of an alarm via object 9.</td></tr<>			Defines the value of the telegram issued in the event of an alarm via object 9.	
Description:     Values:     Remarks:       Piock function     EED permanently OFF LED permanently ON Flashing     When the light-scene push button is disabled, the operation LED is always OFF, always ON or in a flashing mode.       Extension unit at block operation     enabled     When the light-scene push button is disabled, the operation LED is always OFF, always ON or in a flashing mode.       1 <sup>st</sup> push button     enabled     The disabled light-scene push button cannot be operated from the extension.       1 <sup>st</sup> push button     Push button 1     Push button 5       Push button 2     Push button 6       Push button 3     Push button 7       Push button 4     Push button 7       Push button 3     Push button 7       Push button 4     Push button 7       Push button 1     Push button 7       Push button 2     Push button 7       Push button 3     Push button 7       Push button 4     Push button 7       Push button 1     Push button 5       Push button 2     Push button 7       Push button 3	Paramotors			
Plack function     Function of operating LED at block function   LED permanently OFF LED permanently ON Flashing   When the light-scene push button is disabled, the operation LED is always OFF, always ON or in a flashing mode.     Extension unit at block operation   enabled   The disabled light-scene push button can button cannot be operated from the extension.     I <sup>st</sup> push button   Push button 1   Push button 5   Defines the 1 <sup>st</sup> key of the key code. The key code is used for activating the disable function of the light-scene push button.     1 <sup>st</sup> push button   Push button 1   Push button 5   Defines the 1 <sup>st</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     2 <sup>nd</sup> push button   Push button 1   Push button 5   Defines the 2 <sup>nd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     2 <sup>nd</sup> push button   Push button 1   Push button 5   Defines the 3 <sup>rd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     3 <sup>rd</sup> push button   Push button 1   Push button 5   Defines the 3 <sup>rd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     4 <sup>th</sup> push button   Push button 7   Push button 7   Defines the 4 <sup>th</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     <		Values:		Remarks:
Function of operating LED at block function   LED permanently OFF LED permanently ON Flashing   When the light-scene push button is disabled, the operation LED is always OFF, always ON or in a flashing mode.     Extension unit at block operation   enabled   The disabled light-scene push button cantobe operated from an extension. In disabled state, light-scene push button cannot be operated from the extension either.     1 <sup>st</sup> push button   Push button 1   Push button 5   The disabled state, light-scene push button cannot be operated from the extension either.     1 <sup>st</sup> push button   Push button 1   Push button 5   Defines the 1 <sup>st</sup> key of the key code. The key code is used for activating the disabled function of the light-scene push button.     2 <sup>nd</sup> push button   Push button 1   Push button 5   Defines the 2 <sup>nd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     2 <sup>nd</sup> push button   Push button 1   Push button 5   Defines the 2 <sup>nd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     3 <sup>rd</sup> push button   Push button 1   Push button 5   Defines the 3 <sup>rd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     3 <sup>rd</sup> push button   Push button 1   Push button 5   Defines the 3 <sup>rd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.     4 <sup>th</sup>	-	values.		Remarks.
operationstill be operated from an extension.disableddisabled1st push buttonPush button 11st push buttonPush button 21st push buttonPush button 21st push buttonPush button 2Push button 2Push button 6Push button 3Push button 6Push button 4Push button 7Push button 5Defines the 1st key of the key code. The key code is used for activating the disab function of the light-scene push button.2nd push buttonPush button 1Push button 2Push button 5Push button 4Push button 5Push button 1Push button 6Push button 2Push button 6Push button 4Push button 5Push button 7Push button 6Push button 1Push button 5Push button 2Push button 5Push button 3Push button 5Push button 4Push button 5Push button 4Push button 5Push button 4Push button 5Push button 4Push button 6Push button 5Defines the 4th key of the key code. The key code is used for activating the disab function of the light-scene push button.4th push buttonPush button 1Push button 3Push button 5Push button 4Push button 5Push button 5Defines the 4th key of the key code. The key code is used for activating the disab function of the light-scene push button.4th push button 6Push button 7Push button 7Push button 7Push button 7Push butto	Function of operating LED	LED permanent		disabled, the operation LED is always
1st push buttonPush button 1 Push button 2 Push button 3 Push button 3 Push button 4Push button 5 Push button 6 Push button 7 Push button 7 Push button 7Defines the 1st key of the key code. The key code is used for activating the disab function of the light-scene push button.2nd push buttonPush button 1 Push button 4Push button 5 Push button 7 Push button 7Defines the 2nd key of the key code. The key code is used for activating the disab function of the light-scene push button.2nd push buttonPush button 1 Push button 4Push button 5 Push button 7 Push button 7Defines the 2nd key of the key code. The key code is used for activating the disab function of the light-scene push button.3nd push buttonPush button 1 Push button 4Push button 5 Push button 7 Push button 7 Push button 4Defines the 3nd key of the key code. The 		enabled		The disabled light-scene push button can still be operated from an extension.
Push button 2 Push button 3 Push button 4Push button 6 Push button 7 Push button 4key code is used for activating the disab function of the light-scene push button.2nd push buttonPush button 1 Push button 2 Push button 2 Push button 3 Push button 4Push button 5 Push button 6 Push button 7 Push button 7 Push button 7Defines the 2nd key of the key code. The key code is used for activating the disab function of the light-scene push button.3nd push buttonPush button 1 Push button 2 Push button 4Push button 5 Push button 7 Push button 8Defines the 2nd key of the key code. The key code is used for activating the disab function of the light-scene push button.3nd push buttonPush button 1 Push button 2 Push button 3 Push button 3 Push button 4Push button 5 Push button 6 Push button 7 Push button 7 Push button 7Defines the 3nd key of the key code. The key code is used for activating the disab function of the light-scene push button.4th push buttonPush button 1 Push button 2 Push button 3 Push button 3 Push button 4Push button 5 Push button 5 Push button 7 Push button 7Defines the 4th key of the key code. The key code is used for activating the disab function of the light-scene push button.4th push buttonPush button 1 Push button 7 Push button 7Push button 5 Push button 7 Push button 7Defines the 4th key of the key code. The key code is used for activating the disab function of the light-scene push button.4th push button 0 Push button 3Push button 7 Push button 7 Push button 7Defines the 4th key of the key code. The key code is used for		disabled		
Push button 2 Push button 3 Push button 4Push button 6 Push button 7 Push button 8key code is used for activating the disab function of the light-scene push button.3 <sup>rd</sup> push buttonPush button 1 Push button 2 Push button 2 Push button 3 Push button 4Push button 5 Push button 6 Push button 7 Push button 8Defines the 3 <sup>rd</sup> key of the key code. The key code is used for activating the disab function of the light-scene push button.4 <sup>th</sup> push buttonPush button 1 Push button 2 Push button 3 Push button 7 Push button 8Local adjustment of push button codedisabled enabledLocal change of the key code is not possible. The key code can be changed by the so called 3-key actuation (cf. functional	1 <sup>st</sup> push button	Push button 2 Push button 3	Push button 6 Push button 7	key code is used for activating the disable
Push button 2 Push button 3 Push button 4Push button 6 Push button 7 Push button 8key code is used for activating the disab function of the light-scene push button.4th push buttonPush button 1 Push button 2 	2 <sup>nd</sup> push button	Push button 2 Push button 3	Push button 6 Push button 7	Defines the 2 <sup>nd</sup> key of the key code. The key code is used for activating the disable function of the light-scene push button.
Push button 2 Push button 3 Push button 3 Push button 4Push button 6 Push button 7 Push button 8key code is used for activating the disab function of the light-scene push button.Local adjustment of push 	3 <sup>rd</sup> push button	Push button 2 Push button 3	Push button 6 Push button 7	Defines the 3 <sup>rd</sup> key of the key code. The key code is used for activating the disable function of the light-scene push button.
button code enabled possible. The key code can be changed by the so called 3-key actuation (cf. functional	4 <sup>th</sup> push button	Push button 2 Push button 3	Push button 6 Push button 7	Defines the 4 <sup>th</sup> key of the key code. The key code is used for activating the disable function of the light-scene push button.
The key code can be changed by the so called 3-key actuation (cf. functional				
Software information	Software information	<u> </u>		1