Product name:	binary input 4fold 230 V DRA
Design:	DRA (series-mounting)
Item no.:	1067 00
ETS search path:	Gira Giersiepen / input / binary input, 4fold / binary input 4fold 230 V DRA

#### Functional description:

With its four independent inputs, this binary input assembly can collect 230 V signals and send messages to the EIB, depending on the software used. These can, for example, be messages for switching, dimming (also single-button actuation dimming) or for blind/shutter control. Also, it is possible to program certain functions such as dimming transmitters, light scene extensions as well as temperature or brightness transmitters, respectively. Various functions can be assigned to the four inputs. In addition, inputs 1 and 2 can be parameterised with pulse or switching counter functions.

The binary input assembly enables you to specifically inhibit individual inputs.

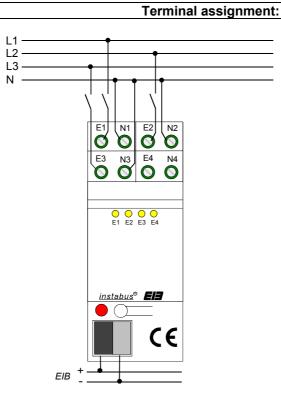
Layout:	Dimensions:	Controls:	
E1       N1       E2       N2         O       O       O       O         E3       N3       E4       N4         O       O       O       O	Width: 2 PU; 35 mm Height: 90 mm Depth: 58 mm	<ol> <li>programming key</li> <li>programming LED (red)</li> <li>LED to indicate the input signals applied (yellow)</li> </ol>	
	PU = partial unit		
Specifications:			
External supply			
instabus EIB supply			
Voltage:	24 V DC (+6 V / -4 V)		
Power consumption:	150 mW max.		
Connection:	instabus connecting and	d branch terminal	
Input Number:	4		
Signal voltage:			
Signal current:	110 V 230 V AC ± 10		
Signal current.	approx. 7 mA at 230 V AC per input (max. glow discharge lamp current < 2 mA for reliable "0" recognition)		
Input power per channel:	approx. 1.6 VA at 230 V		
Signal length for pulse counting:	$T_{min.}$ = 200 ms at a mark		
Signal recognition		·	
"0" signal:	0 70 V AC		
"1" signal:	> 90 V AC		
Signal delay			
Rising edge: Falling edge:	approx. 2 ms approx. 40 ms		
Input line length:	100 m max. (unshielded	1)	
Connection:	Screw terminals:	* j	
	0,75 – 4 mr	n² single-wire	
	2 x 0,75 – 2,5 mr		
	0,75 – 4 mr	•	
	0,75 – 2,5 mr	n <sup>2</sup> finely stranded with ferrule	

### Sensor



Response to voltage failure Bus voltage only: Mains voltage only: Bus and mains voltages: Response to re-closing	No reaction. A falling edge is detected. This response depends on the software used. No reaction.
Bus voltage only:	Depending on the software used.
Mains voltage only:	A falling edge is detected. This response depends on the software used.
Bus and mains voltages:	Depending on the software used.
Protective system:	IP 20
Mark of conformity:	EIB
Ambient temperature:	-5 °C to +45 °C
Storage temperature:	-25 °C to +75 °C (storage above +45 °C will shorten the life)
Minimum pitch:	none
Type of fixing:	to be snapped onto top hat rail (data rail not required)

#### Wiring diagram:



#### Remarks on the hardware:

- In addition to parameterisable software debouncing of the inputs, all signals always pass through some hardware debouncing. Such signal edge delay depends on the signal amplitude and is approx. 2 ms (rising edge) or approx. 40 ms (falling edge), respectively.
- Three different external conductors can be connected.
- Up to four different fault current circuits are possible.

Software-Description: ETS-search path: Gira Giersiepen / input / binary input, 4fold / binary input 4fold 230 V DRA			ETS	-symbol:
Applications: Brief description:	Name:	Date:	Page:	Data base
Universal input assembly	universal input 705502	04.02	5	2.51







Application:

### universal input 705502

#### Scope of functions

#### General

- Free assignment of the "switching", "dimming", "shutter", "value transmitter" functions to the four inputs.
- Free assignment of the "pulse counter" and "switching counter" functions to inputs 1 and 2. For the "pulse counter" function parameterised for input 1 (2), input 3 (4) will be reserved for the sync signal and, therefore, cannot be used for any other functions.
- Signal indication is possible through four yellow status LEDs. The status LED will light up when a signal is being applied and cannot be parameterised.
- Inhibit object to disable individual inputs (polarity of the inhibit object adjustable).
- Delay upon bus voltage recovery and debouncing time centrally adjustable.
- Response to bus voltage recovery separately parameterisable for each input.
- Message rate limitation parameterisable, in general, for all inputs.

#### Switching function

- Two independent switching objects are available for each input and can be isolated individually.
- Command upon rising and falling edges separately selectable (ON, OFF, TOGGLE, no reaction).
- Independent cyclic sending of the switching objects selectable as a function of the edge or of the object value, respectively.

#### **Dimming function**

- Single-button or double-button operation possible.
- Time between dimming and switching and dimming step width adjustable.
- Message repetition and sending stop message possible.

#### Shutter function

- Command upon the rising edge (no function, UP, DOWN, TOGGLE) adjustable.
- Operating concept parameterisable (step move step or move step, respectively).
- Time between step-time mode and move-time mode adjustable (for step move step only).
- Blade setting time adjustable (time during which a MOVE command can be completed by releasing a pushbutton at the input).

#### Value transmitter and light scene extension functions

- Edge (normally-open contact pushbutton, normally-closed contact pushbutton, switch) and value can be parameterised in case of edge mode.
- Value changing for transmitter possible in case of pushbutton mode by pressing pushbutton for a long period.
- For light scene extension with memory function, storage of light scene is also possible without previously calling it.

#### Temperature transmitter and brightness transmitter functions

- Edge (normally-open contact pushbutton, normally-closed contact pushbutton, switch) and value can be parameterised in case of edge mode.
- Value changing possible in case of pushbutton mode by pressing pushbutton for a long period.

#### **Pulse counter function**

- Pulse counting edge and count carry-over interval time can be parameterised.
- Count reset sync signal edge and switch message upon arrival of the sync signal adjustable as a function of the edge.

#### Switching counter function

- Edge for counting the signals at the input and maximum count are selectable.
- Step width for count read-out and command (no message, ON, OFF, TOGGLE) upon reaching maximum count can be parameterised.



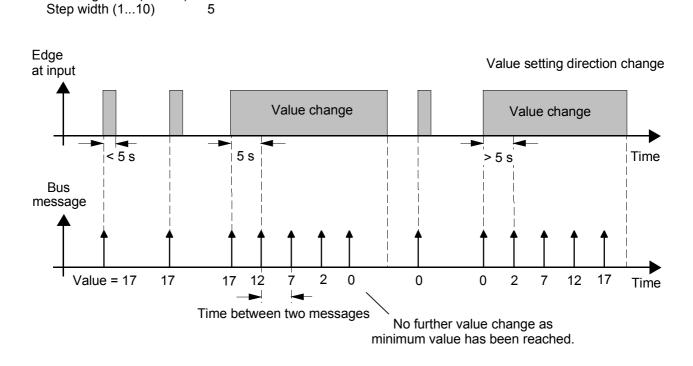


Objects	Object description
□₊ 0 - 3 switching	1 bit object for sending switch messages (ON, OFF).
🗖   8-11 dimming	4 bit object for relative brightness changing between 0 and 100 %.
🗖   0 - 3 step modus	1 bit object for the short-time mode of a blind/shutter.
8 - 11 move modus	1 bit object for the long-time mode of a blind/shutter.
🗖   0 - 3 value	1 byte object for sending value messages (0 - 255), for example.
□   0 - 3 light scene extension unit	1 byte object for calling or saving light scenes (1 - 128).
🗖   8 - 11 temperature value	2 byte object for setting a fixed temperature value (0 - 40 $^\circ$ C).
8 - 11 brightness value	2 byte object for setting a fixed brightness value (0 - 1500 lux).
□₊  2, 3 syn. signal pulse counter X	1 bit object for sending switch messages as a function of the sync signal.
□   8, 9 counter status pulse counter X	2 byte object for carrying over the count.
□, 1 switching counter	1 bit object for sending switch messages as a function of the count.
□ 8,9 switching counter	2 byte object for carrying over the count.
□ 16 - 19 blocking	1 bit object for inhibiting individual inputs.

### Transmitter: Setting by long-time pushbutton actuation

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If you have parameterised a transmitter (normal transmitter, temperature or brightness transmitter), you can set the value to be sent by short-time pushbutton actuation (> 5 s), if the value is to be sent upon the rising or falling edge. In this case, the programmed value will be increased by the parameterised step width and sent. After the input is released, the value sent last will be kept stored. The next long-time pushbutton actuation will change the value setting direction.



#### Important:

Transmitter example:

Dimming value (0...255)

There will be no value setting overflow. If the maximum (255) or minimum (0) value is reached during setting, no more messages will be sent.



instabus EIB System	
Sensor	

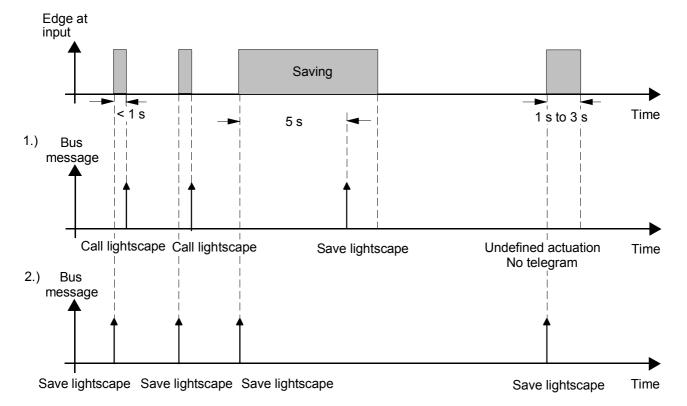
## Light scene extension with/without memory function:

If you have parameterised a light scene extension without memory function you can call a light scene. The parameterised light scene number will be sent immediately upon the rising, falling, or rising and falling edges, respectively.

If you have parameterised a light scene extension with memory function, you can generate a save message of the light scene to be sent. The corresponding save message will be sent upon long-time actuation of the normally open contact (rising edge) or of the normally closed contact (falling edge). In this case, the time for long-time actuation can be parameterised (however, not below 5 s). Short-time actuation of < 1 s will cause the parameterised light scene number to be sent (without save message). If the actuation is longer than 1 s and shorter than 5 s, no message will be released. In addition, you can send a save message only without previously calling a light scene. In such case, parameter "memory function only = YES" must have been set.

Example of a light scene extension with memory function:

- 1.) Memory function only = NO
- 2.) Memory function only = YES



Memory function only = NO:

If a rising or falling edge is recognised at the input (depending on parameterisation), the timer will start. If you release the pushbutton within the first second, the corresponding light scene will be called immediately. If actuation lasts longer, the save message will be sent after 5 s.

Memory function only = YES:

Immediately upon the recognition of the corresponding edge, the save message will be sent.





### **Pulse counter:**

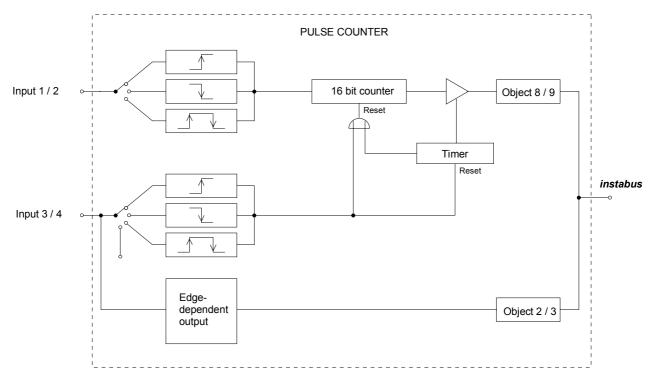
The pulse counters can only be parameterised to input 1 or 2. In this case, inputs 3 (for pulse counter 1) or 4 (for pulse counter 2) are the sync signal inputs and cannot be assigned to any other function. Pulse counters 1 and 2 run independently of each other and have a resolution of 16 bit so that counts between 0 and 65535 are possible. You can set the L-flag to read out the current count at object 8 or 9, respectively.

The counting pulse is applied to input 1 or 2, respectively. After the interval time specified as parameter has elapsed, the count will be taken over and sent as object value of the 2 byte "count" object (object 8 or 9). Then the 2 byte pulse counter will be internally reset during the next time interval.

Only upon the appearance of a new edge at the input, or after the newly started interval time has elapsed, the current count can be read out from the count objects (set L-flag).

In addition, the count and the interval time can be reset by a sync signal applied to input 3 or 4, respectively. Moreover, switch messages (no message, ON, OFF, TOGGLE) can be sent in dependence of the sync signal edge. The output value can be assigned to the edge. The edge assignment for resetting the count can be parameterised independently of the output value.

For pulse counting, the mark-to-space time of a signal applied to input 1 or 2 must not fall below 100 ms. Disabling the pulse counter will not be possible.



#### Sensor

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### Switching counter:

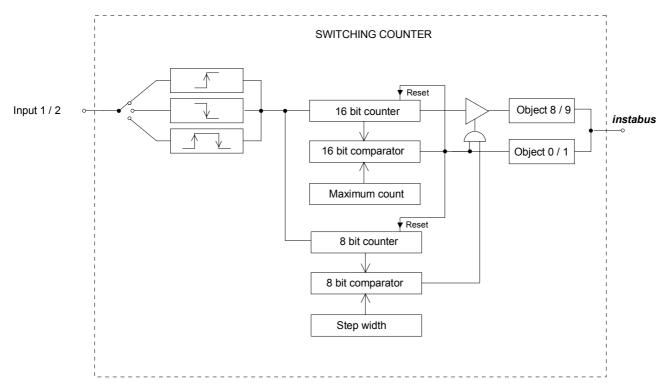
The switching counters can only be parameterised to input 1 or 2. Switching counters 1 and 2 run independently of each other and have a resolution of 16 bit so that counts between 1 and 65535 are possible. You can set the L-flag to read out the current count at object 8 or 9, respectively.

The counting pulse is applied to input 1 or 2, respectively. After the count has reached the parameterised set value, it will be taken over into 2 byte object 8 or 9 and transmitted. In this connection, it will be possible to output a signal value (1 bit object "0" or "1", respectively) which can be parameterised. After the transmission, the 16 bit counter will be automatically and internally reset. Only upon the appearance of a new edge at the input, the current count can be read out from the count objects (set L-flag)

Moreover, the count will be sent in cycles after a pre-defined number of counting pulses (1...255).

For switch-event counting, the mark-to-space time of a signal applied to input 1 or 2 must not fall below 100 ms.

Disabling the switching counter will not be possible.



Number of	f addresses (max.): 26 f assignments (max.): 27 cation objects: 12	dynamic table management: maximum table length:	Yes ⊠ 53	No 🗆
Function: Object: □← 0 - 3	switching (for all 4 inputs ** Function: switching	) Name: input 1 - 4	Type: 1 bit	Flag: S,K,Ü,(L)*
Function: Object: □ 0 - 3 □ 8 - 11	dimming (for all 4 inputs **) Function: switching dimming	Name: input 1 - 4 input 1 - 4	Type: 1 bit 4 bit	Flag: S,K,Ü,(L)* K,Ü,(L)*
Function:         Object:         0 - 3         8 - 11	shutter (for all 4 inputs **) Function: step modus move modus	Name: input 1 - 4 input 1 - 4	Type: 1 bit 1 bit	Flag: K,Ü,(L)* K,Ü,(L)*
Function: Object:	value transmitter (dimming Function: value	value transmitter for all 4 inputs **) Name: input 1 - 4	Type: 1 byte	Flag: K,Ü,(L)*
Function: Object:	value transmitter (call light s Function: light scene extension unit	scenes with / without memory function for all 4 Name: input 1 - 4	inputs **) Type: 1 byte	Flag: K,Ü,(L)*
<b>Function:</b> Object: □   8 - 11	value transmitter (temperat Function: temperature value	ure value transmitter for all 4 inputs **) Name: input 1 - 4	Type: 2 byte	Flag: K,Ü,(L)*
Function: Object: □	value transmitter (brightnes Function: brightness value	s value transmitter for all 4 inputs **) Name: input 1 - 4	Type: 2 byte	Flag: K,Ü,(L)*
Function:         Object:	pulse counter (for inputs 1 a Function: syn. signal pulse counter syn. signal pulse counter counter status pulse counter counter status pulse counter	Name:1input 32input 4iter 1input 1	Type: 1 bit 1 bit 2 byte 2 byte	Flag: S,K,Ü,(L)* S,K,Ü,(L)* K,Ü,(L)* K,Ü,(L)*
Function:         Object:         Image:	switching counter (for input Function: switching counter switching counter switching counter switching counter	Name: input 1 input 2 input 1 input 2	Type: 1 bit 1 bit 2 byte 2 byte	Flag: S,K,Ü,(L)* S,K,Ü,(L)* K,Ü,(L)* K,Ü,(L)*
<b>Function:</b> Object: <mark>그</mark> ન 16 - 19	Blocking (for all 4 inputs *** Function: blocking	**) Name: input 1 - 4	Type: 1 bit	Flag: S,K,(L)*

For the objects marked (L) the current status can be read out (set L flag).

\*\* The "no function", "switching", "dimming", "shutter" and "value transmitter" functions can be selected per input. The names of the communication objects and the object table (dynamic object structure) will change correspondingly.

\*\*\* The "pulse counter" and "switching counter" functions can only be parameterised for inputs 1 and 2. For the "pulse counter" function parameterised for input 1 (2), input 3 (4) will be reserved for the sync signal and, therefore, cannot be used for any other functions.

\*\*\*\* If the inputs have been parameterised to "no function", "pulse counter" or "switching counter", no inhibit function will be possible.

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Parameters					
Description:	Values:	Comment:			
General					
delay at bus voltage return base	130 ms, 260 ms, 520 ms, <b>1 s</b> 2,1 s, 4,2 s, 8,4 s, 17 s, 34 s 1,1 min, 2,2 min, 4,5 min, 9 min 18 min, 35 min, 1,2 h	Upon bus voltage recovery, the binary input can be inhibited for a defined time until the corresponding response is made. During this period, any signals applied to the inputs will not be accepted. Time = base · factor			
delay at bus voltage return factor (3127)	3 to 127 (Default 17)	Upon bus voltage recovery, the binary input can be inhibited for a defined time until the corresponding response is made. During this period, any signals applied to the inputs will not be accepted. Time = base $\cdot$ factor Presetting: 1 s $\cdot$ 17 = 17 s			
		rresetting. rs rr = rrs			
debounce time factor (0255) * 0,5 ms	0 to 255 (Default 10)	It specifies the software debouncing. The time parameterised here represents the signal edge delay in addition to the delay fixed by the hardware.			
		Time = 0.5 ms · factor			
		Presetting: $0.5 \text{ ms} \cdot 10 = 5 \text{ ms}$			
telegram rate limitation	released locked	The message rate limitation can be disabled or enabled. If message rate limitation has been enabled, absolutely no messages will be sent within the first 17 s after bus voltage recovery.			
telegrams per 17 sec.	<b>30</b> 60 100 127	If message rate limitation has been enabled, the maximum number of messages within 17 s can be set here.			

卢 Input 1		
function input 1	no function	It specifies the function of input 1.
	switching	
	dimming	
	shutter	
	value transmitter	
	pulse counter	
	switching counter	
🖬 Function input 1= "no fun	ction"	
		No further parameters.
The switch and the second seco	ning"	
command on rising edge switching object 1.1	no reaction	It specifies the command to be sent through switching object 1.1 upon a
	ON	rising edge. Upon " TOGGLE", the object value will
	OFF	be changed over
	TOGGLE	
command on falling edge switching object 1.1	no reaction	It specifies the command to be sent through switching object 1.1 upon a
	ON	falling edge. Upon " TOGGLE ", the object value will
	OFF	be changed over.
	TOGGLE	
command on rising edge switching object 1.2	no reaction	It specifies the command to be sent through switching object 1.2 upon a
	ON	rising edge. Upon " TOGGLE", the object value will
	OFF	be changed over
	TOGGLE	
command on falling edge switching object 1.2	no reaction	It specifies the command to be sent through switching object 1.2 upon a
	ON	falling edge. Upon " TOGGLE ", the object value will
	OFF	be changed over.
	TOGGLE	

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🗁 Input 1		
Tunction input 1 = "switch	ning"	
behaviour on bus voltage return		You can specify what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed until the response specified here will be made.
	no reaction	No response will be made.
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
	Send ON-telegram	A forced ON will be sent.
	Send OFF-telegram	A forced OFF will be sent.
cyclical transmission ?		Via the switching objects, cyclic sending can be effected, depending on the object value.
	no cyclical transmission	No cyclic sending will be effected.
	repeat at ON	Cyclic sending will be effected if the object value is "ON".
	repeat at OFF	Cyclic sending will be effected if the object value is "OFF".
	repeat at ON and OFF	Cyclic sending will always be effected, independently of the object value.
time base for cyclical transmission switching object 1.1	<b>1 s</b> , 2,1 s, 4,2 s, 8,4 s, 17 s, 34 s 1,1 min, 34 s, 1,1 min, 2,2 min 4,5 min, 9 min, 18 min, 35 min	Specifies the time base for cyclic sending via switching object 1.1.
	1,2 h	Time = base · factor
time base for cyclical transmission switching object 1.2	1 s, 2,1 s, 4,2 s, 8,4 s, 17 s, 34 s 1,1 min, 34 s, 1,1 min, 2,2 min 4,5 min, 9 min, 18 min, 35 min 1,2 h no cyclical transmission by switching object X.2	Specifies the time base for cyclic sending via switching object 1.2. Cyclic sending via switching object 1.2 can be inhibited if "no cyclic sending via switching object X.2" is selected. Time = base · factor
time factor for cyclical	3 to 127 (Default 60)	Specifies the time factor for cyclic
transmission switching object 1.1 and 1.2 (3127)		sending via both switching objects.
		Time = base · factor
		Presetting: $1 \text{ s} \cdot 60 = 60 \text{ s}$

Input 1, blocking ["switchi	ng"l	
blocking function	released locked	The inhibit function can be disabled or enabled.
polarity blocking object	blocking = 1 (release = 0) blocking = 0 (release = 1)	This parameter specifies the polarity of the inhibit object.
behaviour at begin of blocking switching object 1.1 and 1.2	no reaction ON OFF TOGGLE	In case of active inhibition, both switching objects will be inhibited. This parameter specifies the command which will be sent through both switching objects at the beginning of the inhibition. Upon "TOGGLE", the object values will be changed over.
behaviour at end of blocking switching object 1.1 and 1.2	no reaction ON OFF transmit current input status	In case of active inhibition, both switching objects will be inhibited. This parameter specifies the command which will be sent through both switching objects at the end of the inhibition. Upon "transmit current input status", the current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
Dinput 1		
Function input 1 = "dimmi operation	ng" single contact using: darker/brighter (toggle)	Specifies the response to a rising edge at the input. Short-time actuation of a pushbutton at the input will change over the value of the switching object, with a corresponding message being sent. Long-time actuation will release a dim message (brighter/darker). The dimming direction will be saved exclusively internally and changed over for successive dimming events.
	double contact using: brighter (ON)	Short-time actuation of a pushbutton at the input will release an ON message, whereas long-time actuation will cause a dim message (brighter).

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🗁 Input 1		
1 Function input 1 = "dimmi	ing"	
operation	double contact using: darker (OFF)	Short-time actuation of a pushbutton at the input will release an OFF message whereas long-time actuation will cause a dim message (darker).
	double contact using: brighter (TOGGLE)	Short-time actuation of a pushbutton at the input will change over the value of the switching object, with a corresponding message being sent, whereas long-time actuation will cause a dim message (brighter).
	double contact using: darker (TOGGLE)	Short-time actuation of a pushbutton at the input will change over the value of the switching object, with a corresponding message being sent, whereas long-time actuation will cause a dim message (darker).
time between switching and dimming base	<b>130 ms</b> 260 ms 520 ms 1 s	Time from which on the dimming function ("long-time actuation") will be executed.
		Time = base · factor
time between switching and dimming factor (4127)	4 to 127 (Default 4)	Time from which on the dimming function ("long-time actuation") will be executed.
		Time = base · factor
		Presetting: 130 ms $\cdot$ 4 = 520 ms
behaviour on bus voltage return		You can specify what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed unti the response specified here will be made.
	no reaction	No response.
	send ON-telegram	A forced ON will be sent.
	send OFF-telegram	A forced OFF will be sent.
dimming brighter by	100 %       6 %         50 %       3 %         25 %       1,5 %         12,5 %       1	<ul> <li>With a dim message, you can dim up by a maximum of X %. This parameter specifies the maximum dimming step width of a dim message.</li> <li>This parameter depends on the type of operation set.</li> </ul>

🗁 Input 1		
Function input 1 = "dimmi	na"	
dimming darker by	100 %     6 %       50 %     3 %       25 %     1,5 %       12,5 %	With a dim message, you can dim down by a maximum of X %. This parameter specifies the maximum dimming step width of a dim message. This parameter depends on the type of operation set.
send stop telegram ?	YES NO	Releasing a pushbutton at the input (falling edge) will cause a stop message or no stop message to be sent.
telegram repeat ?	YES NO	Cyclic message repetition during long- time actuation.
time between two telegrams base	<b>130 ms</b> 260 ms 520 ms 1 s	Time between two messages when message repetition has been set. Each time this period has elapsed, a new dim message will be sent. For message repetition only? = "YES". Time = base · factor
time between two telegrams factor (3127)	3 to 127 (default 10)	<ul> <li>Time between two messages when message repetition has been set.</li> <li>Each time this period has elapsed, a new dim message will be sent.</li> <li>For message repetition only? = "YES".</li> <li>Time = base · factor</li> <li>Presetting: 130 ms · 10 = 1.3 ms</li> </ul>
D Input 1, blocking ["dimmir	na"]	
blocking function	released locked	The inhibit function can be disabled or enabled.
polarity blocking object	blocking = 1 (release = 0) blocking = 0 (release = 1)	This parameter specifies the polarity of the inhibit object.
behaviour at begin of blocking	no reaction ON OFF TOGGLE	This parameter specifies the command which will be sent through the switching object at the beginning of the inhibition. Upon "TOGGLE", the object values will be changed over.
behaviour at end of blocking	no reaction OFF	This parameter specifies the command which will be sent through the switching object at the beginning of the inhibition.

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🗖 Input 1		
The state of the second	er"	
command on rising edge		Specifies the response to a rising edge at the input.
	no function	The input is deactivated.
	UP	Short-time pushbutton actuation will release a STEP message (UP), whereas long-time actuation will cause a MOVE message (UP).
	DOWN	Short-time pushbutton actuation will release a STEP message (DOWN), whereas long-time actuation will cause a MOVE message (DOWN).
	TOGGLE	This setting enables the moving direction to be internally changed upon each long-time actuation (MOVE). If a short-time actuation causes a STEP message to be sent, such STEP will always be opposite to the last MOVE message. Several successive STEP messages will have the same direction.
behaviour on bus voltage return		You can specify what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed until the response specified here will be made.
	no reaction	No response.
	UP	A forced MOVE (UP) will be sent.
	DOWN	A forced MOVE (DOWN) will be sent.

Tunction input 1 = "s		
operating concept	step – move - step	Specifies the message sequence after an actuation (rising edge). step – move – step: Rising edge T1 T2 T2 No response A rising edge will send a STEP message and start time T1 (time between short-time and long-time mode). This STEP serves for stopping an ongoing continuous run. If a falling edge is detected within T1, the binary input will send no further message. If no falling edge is detected during T the binary input will automatically sen a MOVE message after T1 has elapsed and will start T2 (blade adjusting time). If a falling edge is the detected within T2, the binary input w send a STEP message. This function
	move - step	can be used for blade adjustment. T2 should correspond to a 180° blade rotation. move – step: Rising edge MOVE Falling edge A rising edge at the input will send a MOVE message and start time T1 (blade adjusting time). If a falling edge is detected within T1, the binary input will send a STEP message. This function can be used for blade adjustment. T1 should correspond to 180° blade rotation.

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🗗 Input 1		
Function input 1 = "shutte	r"	
time between step and move base	130 ms       8,4 s         260 ms       17 s         520 ms       34 s         1 s       1,1 mi         2,1 s       34 s         4,2 s       34 s	Time from which on the function of a long-time actuation will be executed. Only for operation concept = "step – move – step".nTime = base · factor
time between step and move factor (4127)	4 to 127 (Default 4)	Time from which on the function of a long-time actuation will be executed. Only for operation concept = "step – move – step".Time = base · factor Presetting: 130 ms · 4 = 520 ms
lamellae adjusting time base	130 ms         8,4 s           260 ms         17 s           520 ms         34 s           1 s         1,1 mi           2,1 s         34 s           4,2 s         34 s	Time during which you can terminate a blade adjusting MOVE message by releasing the pushbutton at the input. n Time = base · factor
lamellae adjusting time factor (3127)	3 to 127 (Default 20)	Time during which you can terminate a blade adjusting MOVE message by releasing the pushbutton at the input. Time = base · factor Presetting: 130 ms · 20 = 2.6 ms
Dinput 1, blocking ["shutter	"]	·
blocking function	released locked	The inhibit function can be disabled or enabled.
polarity blocking object	blocking = 1 (release = 0 blocking = 0 (release = 1)	the inhibit object
behaviour at begin of blocking	no reaction DOWN UP TOGGLE	This parameter specifies the command which will be sent through the long- time object at the beginning of the inhibition. Upon " TOGGLE", the (internally saved) moving direction executed last will be changed.
behaviour at end of blocking	no reaction DOWN UP TOGGLE	This parameter specifies the command which will be sent through the long- time object at the end of the inhibition. Upon " TOGGLE", the (internally saved) moving direction executed last will be changed.

Input 1 Function input 1 = "value	transmittor"	
function as	'dimming value transmitter'	Specifies the function to be executed.
	call light scenes without memory function	
	call light scenes with memory function	
	temperature value transmitter	
	brightness value transmitter	
🖬 value transmitter = "dimn	ning value transmitter"	
transmit value at	rising edge (pushbutton normally closed contact)	Specifies the edge which will initiate an event.
	falling egde (pushbutton normally closed contact)	
	rising and falling edges (switch)	
value at rising edge (0255)	0 to 255 (Default 100)	Specifies the value which will be sent upon a rising edge.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
value at falling edge (0255)	0 to 255 (Default 0)	Specifies the value which will be sent upon a falling edge.
		Only for "transmit value at = rising edge (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".

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卢 Input 1		
Function input 1 = " dimming value transmitter "		
behaviour on bus voltage return		You can specify what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed until the response specified here will be made.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.
		Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
		Only for "transmit value at = rising and falling edges (switch)".
control by long actuation?	YES NO	Upon a long-time actuation (< 5 s), the current value can be sent in a cyclic manner decreased or increased by the parameterised step width (see below). After this value change, the value sent last will remain saved. This parameter determines whether value changing will be possible. Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = falling egde (pushbutton normally closed contact)".
time between two telegrams base	130 ms	Time base between two cyclic messages for value changing.
	260 ms <b>520 ms</b>	Only for "control by long actuation? =
	1 s	YES".

<b>11</b> Function input 1 = "dimming value transmitter"         time between two telegrams factor (3127)       3 to 127 ( <b>Default 3</b> )       Time factor between two cyclic messages for value changing. Only for "control by long actuation? = YES". Time = base · factor         resetting: 520 ms · 3 = 1.56 s       Time = base · factor         step size (110)       1 to 10 ( <b>Default 10</b> )       Step width by which the value set will be decreased or increased upon long-time actuation. Only for "control by long actuation? = YES". <b>1</b> Input 1, blocking ["dimming value transmitter"]       Diocking function       released <b>1</b> bocking function       released       The inhibit function can be disabled or enabled.         polarity blocking object <b>Diocking = 1 (release = 0)</b> blocking = 0 (release = 1)       This parameter specifies the polarity or the inhibit object.         blocking       no reaction       reaction like rising edge       The value parameterised for the rising edge will be forced to be sent. Only for "transmit value at = risin and faling edges (switch)".         reaction like falling edge       The value parameterised for the falling edge (switch)".         reaction like falling edge       The value parameterised for the falling edge (switch)".         reaction like falling edge       The value parameterised for the falling edge (switch)".         reaction like falling edge       The value parameterised for the falling edge (switch)".         reaction like falling edge       The cu	🗁 Input 1		
time between two telegrams factor (3127)       3 to 127 (Default 3)       Time factor between two cyclic messages for value changing. Only for "control by long actuation? = YES".         step size (110)       1 to 10 (Default 10)       Step width by which the value set will be decreased or increased upon long- time actuation. Only for "control by long actuation? = YES".         image: the step size (110)       1 to 10 (Default 10)       Step width by which the value set will be decreased or increased upon long- time actuation. Only for "control by long actuation? = YES".         image: the step size (110)       1 to 10 (Default 10)       The inhibit function can be disabled or enabled.         image: the step size (110)       1 to 10 (Default ansmitter"]       The inhibit function can be disabled or enabled.         polarity blocking object       blocking = 1 (release = 0) blocking = 0 (release = 1)       This parameter specifies the polarity of the inhibit object.         behaviour at begin of blocking       no reaction       No response.       The value parameterised for the rising edge (pushbutton normally open contact)" and "transmit value at = rising edge (pushbutton normally copen contact)" and "transmit value at = rising edge (will be forced to be sent.         only for "transmit value at = rising edge (pushbutton normally closed contact)" and "transmit value at = rising and failing edges (witch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising and failing edges will be sent.         only for "transmit value at		ing value transmitter"	
YES".       Time = base · factor         Presetting: 520 ms · 3 = 1.56 s         step size (110)       1 to 10 (Default 10)         Step width by which the value set will be decreased or increased upon long-time actuation.         Only for "control by long actuation? =         YES".         Input 1, blocking ["dimming value transmitter"]         blocking function         released         locked         polarity blocking object         blocking = 1 (release = 0)         blocking = 0 (release = 1)         This parameter specifies the polarity of the inhibit object.         blocking object         blocking = 0 (release = 1)         This parameter specifies the response that will be made at the beginning of the inhibition.         no reaction         reaction like rising edge         reaction like falling edge         reaction like falling edge         reaction like falling edge         The value parameterised for the falling edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".         The value parameterised for the falling edge (ill be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".         The value parameterised for the falling edge (switch)".         The value parameterised for the falling edge (switch)".<	time between two telegrams	3 to 127 (Default 3)	
step size (110)       1 to 10 (Default 10)       Step width by which the value set will be decreased or increased upon long-time actuation.         Only for "control by long actuation? = YES".       The inhibit function can be disabled or enabled.         blocking function       released       The inhibit function can be disabled or enabled.         polarity blocking object       blocking = 1 (release = 0) blocking = 0 (release = 1)       This parameter specifies the polarity of the inhibit object.         behaviour at begin of blocking       no reaction       This parameter specifies the response that will be made at the beginning of the inhibition.         No response.       The value parameterised for the rising edge will be forced to be sent.         only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.         Only for "transmit value at = risin and falling edges will be sent.       Only for "transmit value at = risin and falling edges will be sent.			
step size (110)       1 to 10 (Default 10)       Step width by which the value set will be decreased or increased upon long-time actuation.         Only for "control by long actuation? = YES".       The inhibit function can be disabled or enabled.         blocking function       released       The inhibit function can be disabled or enabled.         polarity blocking object       blocking = 1 (release = 0) blocking = 0 (release = 1)       This parameter specifies the polarity of the inhibit object.         blocking       no reaction       This parameter specifies the response that will be made at the beginning of the inhibition.         No response.       The value parameterised for the rising edge       The value parameterised for the rising edge (pushbutton normally object).         reaction like failing edge       reaction like failing edge       The value parameterised for the failing edge (pushbutton normally cosed contact)" and "transmit value at = risin and failing edges (switch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising and failing edges will be sent.         Only for "transmit value at = risin and failing edges will be sent.       Only for "transmit value at = risin and failing edges will be sent.			Time = base · factor
be decreased or increased upon long-time actuation.         Only for "control by long actuation? =         YES".         Docking function         released         locked         polarity blocking object         blocking = 1 (release = 0)         blocking of         blocking = 0 (release = 1)         blocking         blocking         no reaction         no reaction         reaction like rising edge         The value parameterised for the rising edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".         reaction like falling edge         reaction like falling edge         transmit current input status         The current status of the inputs according to the parameterisation for the rising edge sent.         Only for "transmit value at = risin and falling edges (switch)".			Presetting: 520 ms $\cdot$ 3 = 1.56 s
YES".         Imput 1, blocking ["dimming value transmitter"]         blocking function       released         iocked       The inhibit function can be disabled or enabled.         polarity blocking object       blocking = 1 (release = 0)         blocking = 0 (release = 1)       This parameter specifies the polarity of the inhibit object.         blocking       no reaction         no reaction       No response.         reaction like rising edge       The value parameterised for the rising edge will be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge will be forced to be sent.         Only for "transmit value at = falling edge (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising edges will be to sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterisation for the rising edge (switch)".	step size (110)	1 to 10 (Default 10)	be decreased or increased upon long-
blocking function       released       The inhibit function can be disabled or enabled.         polarity blocking object       blocking = 1 (release = 0)       This parameter specifies the polarity or the inhibit object.         behaviour at begin of blocking       0 (release = 1)       This parameter specifies the response that will be made at the beginning of the inhibition.         no reaction       No response.         reaction like rising edge       The value parameterised for the rising edge will be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge will be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.         Only for "transmit value at = risin and falling edges will be sent.       Only for "transmit value at = risin and falling edges (switch)".			
blocking function       released       The inhibit function can be disabled or enabled.         polarity blocking object       blocking = 1 (release = 0)       This parameter specifies the polarity or the inhibit object.         behaviour at begin of blocking       0 (release = 1)       This parameter specifies the response that will be made at the beginning of the inhibition.         no reaction       No response.         reaction like rising edge       The value parameterised for the rising edge will be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge will be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.         Only for "transmit value at = risin and falling edges will be sent.       Only for "transmit value at = risin and falling edges (switch)".	🔁 Input 1. blocking ["dimmi	ng value transmitter"]	
locked         enabled.           polarity blocking object         blocking = 1 (release = 0) blocking = 0 (release = 1)         This parameter specifies the polarity of the inhibit object.           behaviour at begin of blocking         Ino reaction         This parameter specifies the response that will be made at the beginning of the inhibition.           no reaction         No response.         The value parameterised for the rising edge will be forced to be sent.           Only for "transmit value at = risin and falling edges         The value parameterised for the falling edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".           reaction like falling edge         The value parameterised for the falling edge (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".           transmit current input status         The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.			The inhibit function can be disabled or
blocking = 0 (release = 1)       the inhibit object.         behaviour at begin of blocking       This parameter specifies the response that will be made at the beginning of the inhibition.         no reaction       No response.         reaction like rising edge       The value parameterised for the rising edge will be forced to be sent.         Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".         reaction like falling edge       The value parameterised for the falling edge (pushbutton normally closed contact)" and "transmit value at = falling egge (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.         Only for "transmit value at = rising and falling edges will be sent.       The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.		locked	enabled.
biocking       0 (release = 1)       This parameter specifies the response that will be made at the beginning of the inhibition.         booking       no reaction       No response.         reaction like rising edge       The value parameterised for the rising edge will be forced to be sent.         Only for "transmit value at = rising edge (gustbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".         reaction like falling edge       The value parameterised for the falling edge will be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge will be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge (gustbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.         Only for "transmit value at = risin and falling edges will be sent.       Only for "transmit value at = risin and falling edges will be sent.	polarity blocking object	blocking = 1 (release = 0)	This parameter specifies the polarity of
blocking       that will be made at the beginning of the inhibition.         no reaction       No response.         reaction like rising edge       The value parameterised for the rising edge will be forced to be sent.         Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".         reaction like falling edge       The value parameterised for the falling edge will be forced to be sent.         Only for "transmit value at = risin and falling edges (switch)".       The value parameterised for the falling edge will be forced to be sent.         Only for "transmit value at = falling edge (pushbutton normally closed contact)" and "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".         transmit current input status       The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.         Only for "transmit value at = risin and falling edges will be sent.       Only for "transmit value at = risin and falling edges will be sent.		blocking = 0 (release = 1)	the inhibit object.
reaction like rising edgeThe value parameterised for the rising edge will be forced to be sent.Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".reaction like falling edgeThe value parameterised for the falling edge will be forced to be sent.Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".transmit current input statusThe current status of the inputs according to the parameterisation for the rising and falling edges will be sent.Only for "transmit value at = risin and falling edges will be sent.The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.			
edge will be forced to be sent.Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".reaction like falling edgeThe value parameterised for the falling edge will be forced to be sent.Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".transmit current input statusThe current status of the inputs according to the parameterisation for the rising and falling edges will be sent.Only for "transmit value at = rising and according to the parameterisation for the rising and falling edges will be sent.		no reaction	No response.
edge (pushbutton normally open contact)" and "transmit value at = risin and falling edges (switch)".reaction like falling edgeThe value parameterised for the falling edge will be forced to be sent.Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".transmit current input statusThe current status of the inputs according to the parameterisation for the rising and falling edges will be sent.Only for "transmit value at = risin and falling edges will be sent.The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.		reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.
edge will be forced to be sent.Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".transmit current input statusThe current status of the inputs according to the parameterisation for the rising and falling edges will be sent.Only for "transmit value at = rising and sent.			edge (pushbutton normally open contact)" and "transmit value at = rising
egde (pushbutton normally closed contact)" and "transmit value at = risin and falling edges (switch)".         transmit current input status         The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.         Only for "transmit value at = rising and		reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.
according to the parameterisation for the rising and falling edges will be sent. Only for "transmit value at = rising and			egde (pushbutton normally closed contact)" and "transmit value at = rising
		transmit current input status	according to the parameterisation for the rising and falling edges will be
			Only for "transmit value at = rising and falling edges (switch)".

Disput 1, blocking ["dimming value transmitter"]		
behaviour at end of blocking		This parameter specifies the response that will be made at the end of the inhibition.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.
		Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
		Only for "transmit value at = rising and falling edges (switch)".
Dinput 1		l
Function input 1 = "call lig	ht scenes without memory function"	
transmit light scene number at	rising edge (pushbutton normally open contact)	Specifies the edge which will initiate an event.
	falling egde (pushbutton normally closed contact)	
	rising and falling edges (switch)	
light scene on rising edge (1127)	1 to 127 (Default 1)	Specifies the light scene which will be sent upon a rising edge.
		Only for "transmit light scene number at = rising edge (pushbutton normally open contact)" and "transmit light scene number at = rising and falling edges (switch)".
light scene on falling edge (1127)	1 to 127 (Default 1)	Specifies the light scene which will be sent upon a falling edge.
		Only for "transmit light scene number at = falling egde (pushbutton normally closed contact)" and "transmit light scene number at = rising and falling edges (switch)".

Dinput 1		
	ight scenes without memory function"	
behaviour on bus voltage return		You can specify what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed until the response specified here will be made.
	no reaction	No response.
	reaction like rising edge	The light scene parameterised for the rising edge will be forced to be sent.
		Only for "transmit light scene number at = rising edge (pushbutton normally open contact)" and "transmit light scene number at = rising and falling edges (switch)".
	reaction like falling edge	The light scene parameterised for the falling edge will be forced to be sent.
		Only for "transmit light scene number at = falling egde (pushbutton normally closed contact)" and "transmit light scene number at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
		Only for "transmit light scene number at = rising and falling edges (switch)".
🗁 Input 1. blocking ["call lig	ght scenes without memory function"]	
blocking function	released	The inhibit function can be disabled or enabled.
	locked	
polarity blocking object	blocking = 1 (release = 0)	This parameter specifies the polarity of the inhibit object.
	blocking = 0 (release = 1)	

🗁 Input 1, blocking ["call ligi	nt scenes without memory function"]	
behaviour at begin of blocking		This parameter specifies the response that will be made at the beginning of the inhibition.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent. Only for "transmit light scene number at = rising edge (pushbutton normally open contact)" and "transmit light scene number at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent. Only for "transmit light scene number at = falling egde (pushbutton normally closed contact)" and "transmit light scene number at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent. Only for "transmit light scene number at = rising and falling edges (switch)".
behaviour at end of blocking		This parameter specifies the response that will be made at the end of the inhibition.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent. Only for "transmit light scene number at = rising edge (pushbutton normally open contact)" and "transmit light scene number at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent. Only for "transmit light scene number at = falling egde (pushbutton normally closed contact)" and "transmit light scene number at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent. Only for "transmit light scene number at = rising and falling edges (switch)".



🗁 Input 1		
Function input 1 = "call light scenes with memory function"		
transmit light scene number at	rising edge (pushbutton normally open contact)	Specifies the edge which will initiate an event.
	falling egde (pushbutton normally closed contact)	
light scene on rising edge (1127)	1 to 127 (Default 1)	Specifies the light scene which will be sent upon a rising edge.
		Only for "transmit light scene number at = rising edge (pushbutton normally open contact)".
light scene on falling edge (1127)	1 to 127 (Default 1)	Specifies the light scene which will be sent upon a falling edge.
		Only for "transmit light scene number at = falling egde (pushbutton normally closed contact)".
behaviour on bus voltage return		You can specify what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed until the response specified here will be made.
	no reaction	No response.
	reaction like rising edge	The light scene parameterised for the rising edge will be forced to be sent.
		Only for "transmit light scene number at = rising edge (pushbutton normally open contact)".
	reaction like falling edge	The light scene parameterised for the falling edge will be forced to be sent.
		Only for "transmit light scene number at = falling egde (pushbutton normally closed contact)".
only memory function?	YES NO	You can send only a save message without previously calling a light scene.

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🗁 Input 1			
Function input 1 = "call light scenes with memory function"			
time for long actuation to memorise base	130 ms <sup>1</sup> ) 260 ms <sup>2</sup> ) 520 ms <sup>3</sup> )	Long-time actuation time base for sending a save message.	
	1 s <sup>4</sup> )	Only for "only memory function? = NO".	
		Time = base · factor	
time for long actuation to memorise factor (24127) <sup>1</sup> )	24 bis 127 (Default 38) <sup>1</sup> ) 13 bis 127 (Default 19) <sup>2</sup> ) 9 bis 127 (Default 10) <sup>3</sup> ) 4 bis 127 (Default 10) <sup>4</sup> )	Long-time actuation time factor base for sending a save message.	
factor (24127) <sup>1</sup> ) factor (13127) <sup>2</sup> ) factor (9127) <sup>3</sup> ) factor (4127) <sup>4</sup> )	4 bis 127 (Default 5) 4)	Only for "only memory function? = NO".	
		Time = base · factor	
		Presetting: 520 ms $\cdot$ 10 = 5.2 s	
		Important: The factor range depends on the base set. This way, times of > 3 s can be exclusively parameterised.	
🗁 Input 1, blocking ["call ligi	nt scenes with memory function"]		
blocking function	released	The inhibit function can be disabled or enabled.	
	locked		
polarity blocking object	blocking = 1 (release = 0)	This parameter specifies the polarity of the inhibit object.	
	blocking = 0 (release = 1)		
behaviour at begin of blocking		This parameter specifies the response that will be made at the beginning of the inhibition.	
	no reaction	No response.	
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.	
		Only for "transmit light scene number at = rising edge (pushbutton normally open contact)".	
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.	
		Only for "transmit light scene number at = falling egde (pushbutton normally closed contact)".	

Dinput 1, blocking ["call light scenes with memory function"]		
behaviour at end of blocking	, <b>,</b>	This parameter specifies the response that will be made at the end of the inhibition.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.
		Only for "transmit light scene number at = rising edge (pushbutton normally open contact)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.
		Only for "transmit light scene number at = falling egde (pushbutton normally closed contact)".
🗁 Input 1		
Tiempe	rature value transmitter"	
transmit value at	rising edge (pushbutton normally open contact)	Specifies the edge which will initiate an event.
	falling egde (pushbutton normally closed contact)	
	rising and falling edges (switch)	
value at rising edge	0 to 40 °C in 1 °C increments (Default 20 °C)	Setting the temperature value to be sent.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
value at falling edge	0 to 40 °C in 1 °C increments (Default 18 °C)	Setting the temperature value to be sent.
		Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".

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Dinput 1		
Function input 1 = "temperature value transmitter"		
behaviour on bus voltage return		You can specify what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed until the response specified here will be made.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.
		Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
		Only for "transmit value at = rising and falling edges (switch)".
control by long actuation?	YES NO	Upon a long-time actuation (< 5 s), the current value can be sent in a cyclic manner decreased or increased by the
		parameterised step width (see below). After this value change, the value sent last will be kept stored. This parameter determines whether value changing will be possible. Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = falling egde (pushbutton normally closed contact)".

🗁 Input 1		
Function input 1 = "tempe	rature value transmitter"	
time between two telegrams	130 ms	Time base between two cyclic messages for value changing.
	260 ms	Only for "control by long actuation? = YES".
	<b>520 ms</b> 1 s	Time = base · factor
time between two telegrams factor (3127)	3 to 127 (Default 3)	Time factor between two cyclic messages for value changing.
		Only for "control by long actuation? = YES".
		Time = base · factor
		Presetting: 520 ms $\cdot$ 3 = 1.56 s
step size	1 °C	Step width by which the value set will be decreased upon long-time actuation.
Input 1, blocking ["temper	rature value transmitter "]	•
blocking function	released	The inhibit function can be disabled or
	locked	enabled.
polarity blocking object	blocking = 1 (release = 0)	This parameter specifies the polarity of
	blocking = 0 (release = 1)	the inhibit object.
behaviour at begin of blocking		This parameter specifies the response that will be made at the beginning of the inhibition.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent. Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent. Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent. Only for "transmit value at = rising and falling edges (switch)".
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D Input 1, blocking ["temperature value transmitter "]		
behaviour at end of blocking		This parameter specifies the response that will be made at the end of the inhibition.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.
		Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
		Only for "transmit value at = rising and falling edges (switch)".
Dinput 1		
The second secon		
transmit value at	rising edge (pushbutton normally open contact)	Specifies the edge which will initiate an event.
	falling egde (pushbutton normally closed contact)	
	rising and falling edges (switch)	
value at rising edge	0 to 1500 lux in 50 lux increments ( <b>Default 200 lux)</b>	Setting the brightness value to be sent.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
value at falling edge	0 to 1500 lux	Setting the brightness value to be sent.
	in 50 lux increments (Default 0 lux)	Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".

🗁 Input 1		
Ti Function input 1 = "bright	ness value transmitter"	
behaviour on bus voltage return		You can specify what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed until the response specified here will be made.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.
		Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
		Only for "transmit value at = rising and falling edges (switch)".
control by long actuation?	YES NO	Upon a long-time actuation (< 5 s), the current value can be sent in a cyclic manner decreased or increased by the parameterised step width (see below). After this value change, the value sent last will be kept stored. This parameter determines whether value changing will be possible. Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = falling egde (pushbutton normally closed contact)".

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🗁 Input 1		
Function input 1 = "bright	ness value transmitter"	
time between two telegrams	130 ms	Time base between two cyclic
base	260 ms	messages for value changing.
	520 ms	Only for "control by long actuation? = YES".
	1 s	Time = base · factor
time between two telegrams factor (3127)	3 to 127 (Default 3)	Time factor between two cyclic messages for value changing.
		Only for "control by long actuation? = YES".
		Time = base · factor
		Presetting: 520 ms $\cdot$ 3 = 1.56 s
step size	50 lux	Step width by which the value set will be decreased upon long-time actuation.
🖆 Input 1, blocking ["brightn	ess value transmitter "]	
blocking function	released	The inhibit function can be disabled or
	locked	enabled.
polarity blocking object	blocking = 1 (release = 0)	This parameter specifies the polarity of
	blocking = 0 (release = 1)	the inhibit object.
behaviour at begin of blocking		This parameter specifies the response that will be made at the beginning of the inhibition.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent. Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent. Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent. Only for "transmit value at = rising and falling edges (switch)".
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D Input 1, blocking ["brightness value transmitter "]		
behaviour at end of blocking		This parameter specifies the response that will be made at the end of the inhibition.
	no reaction	No response.
	reaction like rising edge	The value parameterised for the rising edge will be forced to be sent.
		Only for "transmit value at = rising edge (pushbutton normally open contact)" and "transmit value at = rising and falling edges (switch)".
	reaction like falling edge	The value parameterised for the falling edge will be forced to be sent.
		Only for "transmit value at = falling egde (pushbutton normally closed contact)" and "transmit value at = rising and falling edges (switch)".
	transmit current input status	The current status of the inputs according to the parameterisation for the rising and falling edges will be sent.
		Only for "transmit value at = rising and falling edges (switch)".
Dinput 1		
Function input 1 = "pulse counting of pulses at input		This parameter specifies at which edge
by	rising edge falling egde	pulses will be counted at the input.
	rising and falling edges	
transmit interval time for pulse counter base	<b>2,1 s</b> 4,2 s 8,4 s 17 s 34 s	Interval time base. After this time has elapsed, the count will be sent to the bus, the counter being reset for pulse counting during the next time interval.
		Time = base · factor
transmit interval time for pulse counter factor (3127)	3 to 127 (Default 30)	Interval time factor. After this time has elapsed, the count will be sent to the bus, the counter being reset for pulse counting during the next time interval.
		Time = base · factor
		Presetting: 2.1 s $\cdot$ 30 = 63 s

## Sensor

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🗁 Input 1		
Function input 1 = "pulse counter"		
reset counter status and interval time by synchronous signal at	rising edge	This parameter specifies at which edge of the sync signal the count and the interval time will be reset.
telegram at receiving a synchronous signal	Rising edge = ON, falling edge = Rising edge = OFF, falling edge = TOGGLE, falling edge = TOGGLE, falling edge =, falling edge = ON Rising edge = OFF Rising edge = OFF Rising edge = TOGGLE Rising edge = OFF Rising edge = OFF, falling edge = OFF, falling edge = OFF, falling edge = TOGGLE, falling edge = TOGGLE, falling edge = TOGGLE Rising edge = TOGGLE, falling edge =, falling edge =, falling edge =,	Upon receipt of a sync signal, switch messages can be sent to the bus, independently of the sync signal edge. The output value will be assigned to the edge. Note: This edge assignment is independent of the edge assignment for resetting the count and the interval time (parameter " reset counter status and interval time by synchronous signal at ").
D Input 1, blocking ["pulse counter"]		
		No inhibit function possible.

卢 Input 1		
Function input 1 = "switching counter"		
'counting of pulses at input by'	rising edge	This parameter specifies at which edge pulses will be counted at the input.
	falling egde	
	rising and falling edges	
max. counter position (165535)	1 to 65535 (Default 65535)	Maximum count at which the same will be transmitted to the bus. After the transmission, the counter will be automatically and internally reset.
command at max. counter position	no telegram	Signal value which will be sent to the bus when the maximum count is
	ON	reached.
	OFF	
	TOGGLE	
step size counter output (1255)	1 to 255 (Default 255)	Defines the step width (number of counting pulse) on the basis of which the current count will be output.
D Input 1, blocking ["switching counter"]		
		No inhibit function possible.
🗁 For input 2, refer to input 1.		
For input 3, refer to input 1, however, without "pulse counter" and "switching counter".		
D For input 4, refer to input 1, however, without "pulse counter" and "switching counter".		



### Remarks on the software

#### Bus voltage recovery

You can specify for each input what response is to be made upon bus voltage recovery. If some delay after bus voltage recovery has been parameterised, this time will first have to have elapsed until the response set will be made. Within the delay, any edges or signals applied to the inputs will be discarded. The delay time should, in general, be parameterised for all inputs.

You can parameterise some message rate limitation. In such case, no message will be sent within the first 17 s after bus voltage recovery. Please note that any possibly parameterised delay after bus voltage recovery may also be active during this time.

Any edge or signal applied to the inputs upon bus voltage recovery will be discarded.

#### Blocking function

At the beginning or at the end of an blocking, an independent response can be made to each input. In this connection, you can set your parameterisation to "no reaction". Only in such case, any dimming or blind/shutter control or value changing events running before the activation of any blocking will be completed during an active blocking. In any other cases, the parameterised command will be sent immediately at the beginning of an blocking. Moreover, any edges or signals at the corresponding inputs will not be accepted during an active blocking.

Updates on inhibit objects (disable or enable) each time cause the corresponding parameterised command to be sent "at the beginning or end of the blocking".

During an active blocking, there will be no cyclic sending through the disabled input. If cyclic sending was taking place prior to an activation of the inhibit function, no more cyclic sending will be performed at the end of the blocking, provided that "no reaction" has been parameterised. In this case, the cyclic transmission of the object value will only be effected again after an update on the switching object. In any other cases, the object value will be sent in cycles again after the end of the blocking.

#### • Cyclic sending

The object value corrected internally in the switching objects or externally will always be sent. Cyclic sending after bus voltage recovery will only take place after an edge has appeared at the input in accordance with the object value parameterisation for cyclic sending. Thus, the object value will also be sent in cycles, if "no reaction" has been assigned to a rising or falling edge. During an active inhibition, there will be no cyclic sending through the disabled input.