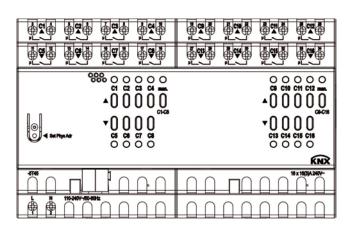


KNX Manual Combi actuators GKA-16K8K KNX GKA-8K4K KNX



GKA-8K4K KNX	108404
GKA-16K8K KNX	108405



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1 Functional characteristics

- 8/16-way switch or 4/8-way blinds actuator.
- Flexible selection of channel function as switch actuator or blinds actuator for controlling drives for blinds, sun and vision protection devices, skylights and ventilation flaps (for blinds function, two adjacent channels are combined)
- LED switching status indicator for each channel
- Manual operation on the device (even without bus voltage)
- Adjustable features: e.g. switching, delayed switching, pulse function
- Links, type of contact (opening contact/NO contact) and participation in central commands such as permanent On, permanent Off, central switching and save/call up scene
- Switch functions: e.g. On/Off, pulse, On/Off delay, staircase light with forewarning
- Logical links: e.g. block, AND, enable, OR



1.1 Operation

Each channel can be switched independently of all parameters using the buttons on the device. A status LED shows the current switching status or the current direction of movement. The channels can be configured as a switch actuator as well as a blinds actuator.

- If channels C1, C2, C3, or C4 are defined as switch actuator, C5 to C8 are also available as switch actuator channels.
- For blinds or roller blinds function, 2 channels are required per drive.

Table 1: Channel assignment and direction of movement for the blinds actuator¹

First drive Second drive ▲ C1 ▲ C2		Third drive	Fourth drive
▲ C1	▲ C2	▲ C3	▲ C4
▼ C5	▼ C6	▼ C7	▼ C8

All bus telegrams are ignored with manual operation switched on (manual button) and the channels are exclusively to be operated via the buttons.

Telegrams on the objects Safety and Priority on safety are still being executed.

Mains voltage is required for the functioning of the buttons and LEDs, bus voltage or bus module are not required.

¹ These directional information are only valid if the parameter *direction of movement of drives = normal* is set.



2 Technical data

Operating voltage KNX	Bus voltage, bus current $\leq 4 \text{ mA}$
Operating voltage	110–240 V AC
Frequency	50 – 60 Hz
Standby output	$0.3 \text{ W} / 0.5 \text{ W}^2$
Type of installation	DIN-rail
Width	4 TE / 8 TE ³
Connection type	KNX bus terminal
Max. cable cross-section	Solid: 0.5 mm ² (Ø 0.8) to 4 mm ² strand with crimp terminal: 0.5 mm ² to 2.5 mm ²
Number of channels	8 switching or 4 blinds channels 16 switching or 8 blinds channels ⁴
Type of contact	16 A, 3 A NO contact
Permissible starting current	max. 800 A / 200 μs
Switching cycles	40 000 at 140 μF
Contact gap	< 3 mm
Resistive load	3680 W
Incandescent/halogen lamp load	2000 W
Fluorescent lamp load (KVG) parallel-corrected	1300 W (140 μF)
Fluorescent lamp load (KVG) not corrected	2000 VA
Fluorescent lamp load (EB)	1200 W
Energy-saving lamps	300 W
LED lamp	< 2 W = 55 W or > 2 W < 8 W = 180 W
Voltage output	240 V AC
Switch output	Floating
Switching different external phases	Possible
Suitable for SELV	Yes, if all channels switch SELV
Ambient temperature	-5 °C-+45 °C

² GKA-16K8K KNX

³ GKA-16K8K KNX

⁴ GKA-16K8K KNX



Protection rating	IP 20
Protection class	II



3 The application programme "GKA-16K8K KNX"

3.1 Selection in the product database

Manufacturer	GARO AB
Product family	Combi actuators
Product type	GKA-8K4K KNX / GKA-16K8K KNX
Program name	GKA-16K8K KNX

Table 2

Number of communication objects	161
Number of group addresses	254
Number of associations	255



3.2 Communication objects

The objects are divided into channel-related and common objects

The function of the objects depends on the selected channel function, i.e. switch or blinds actuator.

3.2.1 Channel-related objects for the switch actuator

Table 3

No.	Object name	Function	Type			ags	-
			DPT 1 bit	C	R	W	T
	Channel C1	Switching object	1.001	✓	✓	✓	-
	Channel C1	Threshold 0255	1 byte 5.010	1	1	✓	-
0	Channel C1	Threshold 065535	2 byte 7.001	1	1	1	-
	Channel C1	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	1	1	1	-
	Channel C1	Threshold as percent	1 byte 5.001	1	1	✓	-
	Channel C1	Logic input in OR gate	1 bit 1.001	1	1	1	-
1	Channel C1	Logic input in AND gate	1 bit 1.001	1	1	1	-
	Channel C1	Logic input in XOR gate	1 bit 1.001	1	1	1	-
2	Channel C1	Block	1 bit 1.003	1	1	1	-
3	Channel C1	Call up/save scenes	1 byte 18.001	1	1	1	1
4	Channel C1	Enable scenes = 1	1 bit 1.003	1	1	1	-
7	Channel C1	Block scenes = 1	1 bit 1.003	1	1	1	-
5	Channel C1	Feedback On/Off	1 bit 1.001	1	1	-	1
6	Channel C1	Operating hours feedback	2 byte 7.001	1	1	1	1
U	Channel C1	Time to next service	2 byte 7.001	1	1	1	1
7	Channel C1	Service required	1 bit 1.001	1	1	-	1
	Channel C1	Reset operating hours	1 bit 1.001	1	1	1	-
8	Channel C1	Reset service	1 bit 1.001	1	1	1	-
	Channel C1	Switching with priority	2 bit 2.001	1	1	1	-



No.	Object name	Function	Type			ags	
110.	Object nume	Tunction	DPT	C	R	W	T
	Channel C2	Switching object	1 bit 1.001	1	1	1	-
	Channel C2	Threshold 0255	1 byte 5.010	1	1	1	-
10	Channel C2	Threshold 065535	2 byte 7.001	1	1	1	-
	Channel C2	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	1	✓	1	-
	Channel C2	Threshold as percent	1 byte 5.001	1	1	✓	-
	Channel C2	Logic input in OR gate	1 bit 1.001	1	1	✓	-
11	Channel C2	Logic input in AND gate	1 bit 1.001	1	1	✓	-
	Channel C2	Logic input in XOR gate	1 bit 1.001	1	1	1	-
12	Channel C2	Block	1 bit 1.003	1	1	1	-
13	Channel C2	Call up/save scenes	1 byte 18.001	1	1	1	1
14	Channel C2	Enable scenes = 1	1 bit 1.003	1	1	1	-
17	Channel C2	Block scenes = 1	1 bit 1.003	1	1	1	-
15	Channel C2	Feedback On/Off	1 bit 1.001	1	1	-	1
16	Channel C2	Operating hours feedback	2 byte 7.001	1	1	1	1
	Channel C2	Time to next service	2 byte 7.001	1	✓	✓	1
17	Channel C2	Service required	1 bit 1.001	1	✓	-	1
	Channel C2	Reset operating hours	1 bit 1.001	1	1	1	-
18	Channel C2	Reset service	1 bit 1.001	1	1	1	-
	Channel C2	Switching with priority	2 bit 2.001	1	1	1	-
	Channel C3	Switching object	1 bit 1.001	1	1	✓	-
	Channel C3	Threshold 0255	1 byte 5.010	1	1	1	-
20	Channel C3	Threshold 065535	2 byte 7.001	1	1	✓	-
	Channel C3	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	1	1	✓	-
	Channel C3	Threshold as percent	1 byte 5.001	1	1	✓	-



No.	Object name	Function	Type			ags	ı
110.	Object nume	T direction	DPT	C	R	W	T
	Channel C3	Logic input in OR gate	1 bit 1.001	1	✓	✓	-
21	Channel C3	Logic input in AND gate	1 bit 1.001	1	1	1	-
	Channel C3	Logic input in XOR gate	1 bit 1.001	1	1	1	-
22	Channel C3	Block	1 bit 1.003	1	1	1	-
23	Channel C3	Call up/save scenes	1 byte 18.001	1	1	1	1
24	Channel C3	Enable scenes = 1	1 bit 1.003	1	1	1	-
24	Channel C3	Block scenes = 1	1 bit 1.003	1	1	1	-
25	Channel C3	Feedback On/Off	1 bit 1.001	1	1	-	1
26	Channel C3	Operating hours feedback	2 byte 7.001	1	1	1	1
26	Channel C3	Time to next service	2 byte 7.001	1	1	1	1
27	Channel C3	Service required	1 bit 1.001	1	1	-	1
	Channel C3	Reset operating hours	1 bit 1.001	1	1	1	-
28	Channel C3	Reset service	1 bit 1.001	1	1	1	-
	Channel C3	Switching with priority	2 bit 2.001	1	1	1	-
	Channel C4	Switching object	1 bit 1.001	1	1	1	-
	Channel C4	Threshold 0255	1 byte 5.010	1	1	1	-
30	Channel C4	Threshold 065535	2 byte 7.001	1	1	1	-
	Channel C4	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	1	1	1	-
	Channel C4	Threshold as percent	1 byte 5.001	1	1	1	_
	Channel C4	Logic input in OR gate	1 bit 1.001	1	1	1	-
31	Channel C4	Logic input in AND gate	1 bit 1.001	1	1	1	-
	Channel C4	Logic input in XOR gate	1 bit 1.001	1	1	1	-
32	Channel C4	Block	1 bit 1.003	1	1	1	-



No.	Object name	Function	Type		Fla	ags	
NO.	Object name	Tunction	DPT	C	R	W	T
33	Channel C4	Call up/save scenes	1 byte 18.001	1	1	1	1
34	Channel C4	Enable scenes = 1	1 bit 1.003	1	1	1	-
34	Channel C4	Block scenes = 1	1 bit 1.003	1	1	1	-
35	Channel C4	Feedback On/Off	1 bit 1.001	1	1	-	1
36	Channel C4	Operating hours feedback	2 byte 7.001	1	✓	✓	1
30	Channel C4	Time to next service	2 byte 7.001	1	✓	✓	1
37	Channel C4	Service required	1 bit 1.001	1	✓	-	✓
	Channel C4	Reset operating hours	1 bit 1.001	1	1	1	-
38	Channel C4	Reset service	1 bit 1.001	1	1	✓	-
	Channel C4	Switching with priority	2 bit 2.001	1	1	✓	-
	Channel C5	Switching object	1 bit 1.001	1	1	✓	-
	Channel C5	Threshold 0255	1 byte 5.010	1	1	✓	-
40	Channel C5	Threshold 065535	2 byte 7.001	1	✓	✓	-
	Channel C5	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	1	✓	✓	-
	Channel C5	Threshold as percent	1 byte 5.001	1	✓	✓	-
	Channel C5	Logic input in OR gate	1 bit 1.001	1	✓	✓	-
41	Channel C5	Logic input in AND gate	1 bit 1.001	1	1	1	-
	Channel C5	Logic input in XOR gate	1 bit 1.001	1	1	1	-
42	Channel C5	Block	1 bit 1.003	1	1	✓	-
43	Channel C5	Call up/save scenes	1 byte 18.001	1	1	1	1
44	Channel C5	Enable scenes = 1	1 bit 1.003	1	1	1	-
'1'1	Channel C5	Block scenes = 1	1 bit 1.003	1	1	✓	-
45	Channel C5	Feedback On/Off	1 bit 1.001	1	1		1



No.	Object name	Function	Type			ags	
1,0.	o o jeet nume		DPT 2 byte	C	R	W	T
16	Channel C5	Operating hours feedback	2 byte 7.001	1	✓	1	1
46	Channel C5	Time to next service	2 byte 7.001	1	1	1	1
47	Channel C5	Service required	1 bit 1.001	1	1	-	1
	Channel C5	Reset operating hours	1 bit 1.001	1	✓	✓	-
48	Channel C5	Reset service	1 bit 1.001	1	✓	✓	-
	Channel C5	Switching with priority	2 bit 2.001	1	✓	✓	-
	Channel C6	Switching object	1 bit 1.001	1	✓	✓	-
	Channel C6	Threshold 0255	1 byte 5.010	1	✓	1	-
50	Channel C6	Threshold 065535	2 byte 7.001	1	1	1	-
	Channel C6	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	1	1	1	-
	Channel C6	Threshold as percent	1 byte 5.001	1	✓	1	-
	Channel C6	Logic input in OR gate	1 bit 1.001	1	1	1	-
51	Channel C6	Logic input in AND gate	1 bit 1.001	1	1	1	-
	Channel C6	Logic input in XOR gate	1 bit 1.001	1	✓	1	-
52	Channel C6	Block	1 bit 1.003	1	✓	1	-
53	Channel C6	Call up/save scenes	1 byte 18.001	1	1	✓	1
54	Channel C6	Enable scenes = 1	1 bit 1.003	1	1	1	-
34	Channel C6	Block scenes = 1	1 bit 1.003	1	1	1	-
55	Channel C6	Feedback On/Off	1 bit 1.001	1	1	-	1
56	Channel C6	Operating hours feedback	2 byte 7.001	1	1	1	1
56	Channel C6	Time to next service	2 byte 7.001	1	1	1	1
57	Channel C6	Service required	1 bit 1.001	1	1	-	1



No.	Object name	Function	Type			ags	
1,0,	Coject nume		DPT 1 bit	С	R	W	T
	Channel C6	Reset operating hours	1.001	1	1	✓	-
58	Channel C6	Reset service	1 bit 1.001	1	1	✓	-
	Channel C6	Switching with priority	2 bit 2.001	1	1	✓	-
	Channel C7	Switching object	1 bit 1.001	1	1	1	-
	Channel C7	Threshold 0255	1 byte 5.010	1	1	1	-
60	Channel C7	Threshold 065535	2 byte 7.001	1	1	1	-
	Channel C7	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	1	1	1	-
	Channel C7	Threshold as percent	1 byte 5.001	1	1	1	-
	Channel C7	Logic input in OR gate	1 bit 1.001	1	1	1	-
61	Channel C7	Logic input in AND gate	1 bit 1.001	1	1	1	-
	Channel C7	Logic input in XOR gate	1 bit 1.001	1	1	1	-
62	Channel C7	Block	1 bit 1.003	1	1	1	-
63	Channel C7	Call up/save scenes	1 byte 18.001	1	1	1	1
64	Channel C7	Enable scenes = 1	1 bit 1.003	1	1	1	-
64	Channel C7	Block scenes = 1	1 bit 1.003	1	1	1	-
65	Channel C7	Feedback On/Off	1 bit 1.001	1	1	-	1
	Channel C7	Operating hours feedback	2 byte 7.001	1	1	1	1
66	Channel C7	Time to next service	2 byte 7.001	1	1	1	1
67	Channel C7	Service required	1 bit 1.001	1	1	-	1
	Channel C7	Reset operating hours	1 bit 1.001	1	1	1	-
68	Channel C7	Reset service	1 bit 1.001	1	1	1	-
	Channel C7	Switching with priority	2 bit 2.001	1	1	1	-



No.	Object name	Function	Туре	~		ags	
	J		DPT 1 bit	C	R	W	T
	Channel C8	Switching object	1.001	1	1	✓	-
	Channel C8	Threshold 0255	1 byte 5.010	1	1	1	-
69	Channel C8	Threshold 065535	2 byte 7.001	1	1	1	-
	Channel C8	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	1	1	1	-
	Channel C8	Threshold as percent	1 byte 5.001	1	1	1	-
	Channel C8	Logic input in OR gate	1 bit 1.001	1	1	1	-
70	Channel C8	Logic input in AND gate	1 bit 1.001	1	1	1	-
	Channel C8	Logic input in XOR gate	1 bit 1.001	1	1	✓	-
71	Channel C8	Block	1 bit 1.003	1	1	1	-
72	Channel C8	Call up/save scenes	1 byte 18.001	1	1	1	1
73	Channel C8	Enable scenes = 1	1 bit 1.003	1	1	✓	-
73	Channel C8	Block scenes = 1	1 bit 1.003	1	1	✓	-
74	Channel C8	Feedback On/Off	1 bit 1.001	1	1	-	1
75	Channel C8	Operating hours feedback	2 byte 7.001	1	1	✓	1
/3	Channel C8	Time to next service	2 byte 7.001	1	1	1	1
76	Channel C8	Service required	1 bit 1.001	1	1	_	1
	Channel C8	Reset operating hours	1 bit 1.001	1	1	1	-
77	Channel C8	Reset service	1 bit 1.001	1	1	1	-
	Channel C8	Switching with priority	2 bit 2.001	1	1	1	-



3.2.2 Channel-related objects for the blinds actuator:

For the blinds function, 2 channels (e.g. C1+C5) are combined. Therefore, the object numbers are not in consecutive order.

Table 4:

No.	Object name	Object name Function Type				ags	
			DPT	С	R	W	T
0	Channel C1	UP/DOWN	1 bit 1.008	1	1	✓	-
1	Channel C1	Step/stop	1 bit 1.010	1	✓	✓	-
2	Channel C1	% Height	1 byte 5.001	✓	1	✓	-
3	Channel C1	% Slat	1 byte 5.001	1	✓	✓	-
4	Channel C1	Block comfort/automatic	1 bit 1.003	✓	✓	✓	-
5	Channel C1	I = Block	1 bit	1	1	1	-
3	Channel C1	1 = Enable	1.003	1	1	1	-
6	Channel C1	Call up/save scenes	1 byte 18.001	1	1	1	-
7	Channel C1	$Enable\ scenes = 1$	1 bit	✓	1	1	-
/	Channel C1	$Block\ scenes = 1$	1.003	1	1	1	-
8	Channel C1	Priority on safety	2 bit 2.003	1	1	1	-
40	Channel C1	Position A	1 bit 1.003	1	1	1	-
41	Channel C1	Position B	1 bit 1.003	✓	1	✓	-
42	Channel C1	Position C	1 bit 1.003	✓	1	✓	-
43	Channel C1	Height feedback %	1 byte 5.001	1	1	-	1
43	Channel C1	Height feedback 1 bit	1 bit 1.009	1	1	-	1
44	Channel C1	Slat feedback %	1 byte 5.001	1	1	-	1



No.	Object name	Function	Type			ags	
140.	Object name	T unction	DPT	C	R	W	T
10	Channel C2	UP/DOWN	1 bit 1.008	1	1	1	_
1.1	GI 1.GO	G	1 bit				
11	Channel C2	Step/stop	1.010	✓	✓	1	-
12	Channel C2	% Height	1 byte	,	,	,	
			5.001 1 byte	✓	✓	/	-
13	Channel C2	% Slat	5.001	1	1	1	_
14	Channel C2	Plack comfort/automatic	1 bit				
14		Block comfort/automatic	1.003	✓	✓	✓	-
15	Channel C2	1 = Block	1 bit	✓	✓	✓	-
	Channel C2	1 = Enable	1.003	✓	✓	✓	-
16	Channel C2	Call up/save scenes	1 byte 18.001	1	1	1	_
17	Channel C2	$Enable\ scenes = 1$	1 bit	1	1	1	-
17	Channel C2	Block scenes = 1	1.003	1	1	1	-
18	Channel C2	Priority on safety	2 bit 2.003	1	1	1	
			1 bit	•	•	•	Ė
50	Channel C2	Position A	1.003	1	1	1	-
51	Channel C2	Position B	1 bit 1.003	1	1	1	_
52	Channel C2	Position C	1 bit	,	,	,	
			1.003 1 byte	/	✓	/	-
53	Channel C2	Height feedback %	5.001	1	✓	-	1
	Channel C2	Height feedback 1 bit	1 bit 1.009	1	1	-	1
54	Channel C2	Slat feedback %	1 byte	1	1	_	/
J.		Stat Jecastick 70	5.001	_	_		_
20	Channel C3	UP/DOWN	1 bit 1.008	1	1	1	_
21	Cl 1 C2	C4 /-4	1 bit				
21	Channel C3	Step/stop	1.010	✓	✓	1	-
22	Channel C3	% Height	1 byte 5.001	1	1	1	_
23	Channel C3	% Slat	1 byte				
23	Chamber C3	/ U Ditti	5.001	1	✓	1	-
24	Channel C3	Block comfort/automatic	1 bit 1.003	1	1	1	-
25	Channel C3	1 = Block	1 bit	1	1	1	_
25	Channel C3	1 = Enable	1.003	1	1	1	_
26	Channel C3	Call up/save scenes	1 byte	,	,		
		1	18.001	✓	✓	✓	_



No.	Object name	Function	Type DPT	C	Fla R	ags W	Т
27	Channel C3	$Block\ scenes = 1$	1 bit	1	1	1	-
27	Channel C3	Enable scenes = 1	1.003	1	1	1	_
28	Channel C3	Priority on safety	2 bit 2.003	1	1	1	_
60	Channel C3	Position A	1 bit 1.003	1	1	1	_
61	Channel C3	Position B	1 bit 1.003	1	1	1	_
62	Channel C3	Position C	1 bit 1.003	1	1	1	_
63	Channel C3	Height feedback %	1 byte 5.001	1	1	-	1
03	Channel CS	Height feedback 1 bit	1 bit 1.009	1	1	-	1
64	Channel C3	Slat feedback %	1 byte 5.001	1	1	-	1
30	Channel C4	UP/DOWN	1 bit 1.008	1	1	1	_
31	Channel C4	Step/stop	1 bit 1.010	1	1	1	-
32	Channel C4	% Height	1 byte 5.001	1	1	1	-
33	Channel C4	% Slat	1 byte 5.001	1	1	1	_
34	Channel C4	Block comfort/automatic	1 bit 1.003	1	1	1	_
35	Channel C4	1 = Enable	1 bit	1	✓	✓	_
33	Channel C4	1 = Block	1.003	1	✓	✓	_
36	Channel C4	Call up/save scenes	1 byte 18.001	1	1	1	_
37	Channel C4	$Block\ scenes = 1$	1 bit	✓	✓	✓	_
37	Channel C4	Enable scenes $= 1$	1.003	✓	✓	1	_
38	Channel C4	Priority on safety	2 bit 2.003	1	1	1	_
70	Channel C4	Position A	1 bit 1.003	1	1	1	_
71	Channel C4	Position B	1 bit 1.003	1	1	1	-
72	Channel C4	Position C	1 bit 1.003	1	1	1	_
73	Channel C4	Height feedback %	1 byte 5.001	1	1	-	1
13	Cnannei C4	Height feedback 1 bit	1 bit 1.009	1	1	-	1
74	Channel C4	Slat feedback %	1 byte 5.001	1	1	-	1



3.2.3 Common objects:

Table 5:

No.	Object name Function Type			Fla	ags		
140.	Object name	Tunction	DPT	C	R	W	T
78	<i>C1 – C8</i>	Manual	1 bit 1.001	✓	1	1	1
158	C9 – C16	Manual	1 bit 1.001	1	✓	✓	1
240	Central permanent ON	Switch actuator	1 bit 1.001	1	1	1	1
241	Central permanent OFF	Switch actuator	1 bit 1.001	1	1	1	1
242	Central switching	Switch actuator	1 bit 1.001	1	1	1	1
243	Call up/save central scenes	Switch/blinds actuator	1 byte 18.001	✓	1	1	1
244	Central safety 1	Blinds actuator (wind)	1 bit 1.001	✓	1	1	
245	Central safety 2	Blinds actuator (wind)	1 bit 1.001	✓	1	1	
246	Central safety 3	Blinds actuator (wind)	1 bit 1.001	✓	1	1	
247	Central UP/DOWN	Blinds actuator	1 bit 1.008	1	1	1	
248	Central safety rain	Blinds actuator	1 bit 1.001	✓	1	1	
249	Central safety frost	Blinds actuator	1 bit 1.001	✓	1	✓	
250	Version of bus coupling unit	send	14 byte 16.001	1	1		1
251	Firmware version 1	send	14 byte 16.001	1	1		1
252	Firmware version 2	send	14 byte 16.001	1	✓		1



3.2.4 Description of objects for the switch actuator (channel C1)

• **Object 0** "Switch object, threshold as percent, threshold 0..255, threshold EIS 5 (DPT 9.xxx), threshold 0..65535"

This object activates the set channel function (see parameter: Channel function).

The set channel function can either be activated via 1-bit telegram or by exceeding a threshold (8- or 16-bit telegram).

Table 6:

Parameter	Activation of channel function	
Activation of function via	Type of threshold object	via
Switch object		1-bit telegram
	Object type: Percent (DPT 5.001)	Exceeding per cent value
Exaceding the threshold	Object type: Counter value 0255 (DPT 5.010)	Any value in given numerical
Exceeding the threshold	Object type: Counter value 065535 (DPT 7.001)	range
	Object type: EIS5 e.g. CO2, brightness (DPT 9.xxx)	2 byte floating-point number

• **Object 1** "Logic input in AND gate, in OR gate, in XOR gate"

Only available if *Link* is activated (*Configuration options* parameter page). Forms a logical link together with object 0 to activate the channel function.

• Object 2 "Block"

Blocks the channel function.

Responses to setting and cancelling the block can be configured if the block function has been activated (*Configuration options* parameter page).



• Object 3 "Call up/save scene"

Only available if the scene function has been activated (Configuration options parameter page).

This object can be used to save and subsequently call up scenes.

Saving stores the channel status.

It does not matter how this status is produced (whether via switch commands, central objects or the buttons on the device).

The saved status is restored when it is called up.

All scene numbers from 1 to 64 are supported. Each channel can participate in up to 8 scenes.

See appendix: Scenes

• **Object 4** "Block scenes = 1, Enable scenes = 1"

Blocks the scene function with a 1 or a 0 depending on the configuration. As long as it is blocked, scenes cannot be saved or called up.

• Object 5 "On/Off feedback"

Reports the current channel status.

The status can also be inverted depending on configuration.

• **Object 6** "Time to next service, operating hours feedback"

Only available if the operating hours counter function has been activated (*Configuration options* parameter page).

Reports, depending on selected *Type of hour counter (Hour counter and service* parameter page), either the remaining period to the next service or the current status of the hour counter.

• **Object 7** "Service required"

Only available if the operating hours counter function has been activated (*Configuration options* parameter page) and *Type of hour counter = Counter for time to next service*.

Reports if the next service is due.

0 = not due

1 =service is due.



• **Object 8** "Switching with priority, reset service, reset operating hours"

The function of the object depends on whether or not the operating hours counter function has been activated (*Configuration options* parameter page).

Activate hour counter	Function	Use
Nas	Reset service ⁵	Reset service interval counter.
yes	Reset operating hours ⁶	Reset hour counter
		Priority control:
		Status of object 8 Channel status
no		0 as set by
no	Switching with priority	1 object 0^7
		2 OFF
		3 ON

-

⁵ Depending on configuration

⁶ Depending on configuration

⁷ or set by logic, central objects or scene



3.2.5 Description of objects for the blinds actuator (channel C1)

For the blinds function, 2 channels (e.g. C1+C5) are combined. Therefore, the object numbers are not in consecutive order.

• Object 0 "UP/DOWN"

Raise the roller blinds/blinds with "0" and lower with "1".

• Object 1 "Step/Stop"

If the drive moves, it will be stopped when a Step/Stop telegram is received.

If the drive is stationary at this moment, then a short slat turning (step) is performed on blinds.

With the other drive types, the current position is adjusted up or down depending on the specified step direction.

The direction of the step is determined from whether a "0" or "1" is sent to the object. No step is performed if the configured number of steps for a complete turn has already been reached.

• Object 2 "% Height"

This raises/lowers the roller blinds/blinds to a certain height.

The set point value is expressed in %.

0% ... 3% = upper end position

100% = lower end position

This function can be blocked by the comfort automatic object (see below).

• **Object 3** "% Slat"

Specification of a particular slat turning in % This function can be blocked by the comfort automatic object (see below)

• Object 4 "Block Comfort/Automatic"

A "1" on this object blocks the functions Drive 1 Height and Drive 1 Slat.

This function is used to prevent the blind from being adjusted due to external influences, and to thus maintain a preferred slat position of the blinds.

The Up/Down function (obj. 0) is maintained.



• Object 5 "Block/enable"

Blocks the channel function.

Responses to setting and cancelling the block can be configured if the block function has been activated (configuration options parameter page).

• Object 6 "Call up/save scenes"

Only available if the scene function has been activated (Configuration options parameter page).

This object can be used to save and subsequently call up scenes.

Saving stores the channel status.

It does not matter how this status is produced (whether via switch commands, central objects or the buttons on the device). The saved status is re-established when it is called up.

All scene numbers from 1 to 63 are supported.

Each channel can participate in up to 8 scenes.

The scene that is currently active can be ended with the value 63 (= scene 64).

See appendix: Scenes

• Object 7 "Block scenes/enable scenes"

Blocks the scene function with a 1 or a 0 depending on the configuration.

As long as it is locked, scenes cannot be saved or called up

• **Object 8** "Priority on safety"

Priority on safety will be used when the roller blinds or sun protection devices must remain stationary in an end position for a certain time, e.g. for window cleaning.

This operating mode has the highest priority level.

While priority on safety is active, all operating commands (*UP/DOWN*, % *Height*, *Step/Stop*, *Slat* %), the other safety objects and the manual operation will be ignored.

Value obj. 8	Priority on safety
0	inactive
1	mactive
2	UP
3	DOWN

Priority on safety is ended with a 1 or a 0.

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• **Object 40** "Position A"

With a 1, the drive is brought to the predefined position A (preset or end position). See parameter page *Positions via 1 bit.*

• **Object 41** "Position B"

With a 1, the drive is brought to the predefined position B (preset or end position). See parameter page *Positions via 1 bit*.

• Object 42 "Position C"

With a 1, the drive is brought to the predefined position C (preset or end position). See parameter page *Positions via 1 bit*.

• Object 43 "Height feedback %", "Height feedback 1 bit"

Current drive height feedback in %.

Can also be configured as a 1-bit telegram DPT1.009. See parameter: Format of height feedback.

• **Object 44** "Slat feedback %"

Current slat position feedback in %.



3.2.6 Description of common objects

• Objects 78, 158 "Manual"

Puts the relevant module in manual mode or sends the status of the manual operation.

Telegram	Meaning	Explanation
0	Auto	All channels can be operated via the bus as well as via the buttons.
1	Manual	The channels can only be operated via the buttons on the device. The safety telegrams are still being executed.

The duration of the manual mode, i.e. the *Function of the manual button* is set on the *General* parameter page.

• Object 240 "Central permanent ON"

Central switch-on function.

Enables simultaneous switching on of all channels with one single telegram.

0 = No function

1 = Permanent ON

Participation in this object can be set individually for each channel (*Configuration options* parameter page).

IMPORTANT:

This object takes top priority.

As long as it is set, the other switch commands will not work on the participating channels.

• **Object 241** "Central permanent OFF"

Central switch-off function.

Enables simultaneous switching off of all channels with one single telegram.

0 = No function

1 = Permanent OFF

Participation in this object can be set individually for each channel (*Configuration options* parameter page).

IMPORTANT: This object has the second highest priority after *Central permanent ON*. As long as it is set, the other switch commands will not work on the participating channels.

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• Object 242 "Central switching"

Central switch function.

Enables simultaneous switching on or off of all channels with one single telegram.

0 = OFF

1 = ON

Participation in this object can be set individually for each channel (*Configuration options* parameter page).

With this object, every participating channel responds exactly as if its 1st object (i.e. obj. 0, 10, 20, etc.) were receiving a switch command.

• Object 243 "Call up/save central scenes"

Central object for using scenes.

This object can be used to save and subsequently call up "scenes".

See appendix: Scenes.

• Objects 244, 245, 246 "Central safety 1, 2, 3"

The safety objects allow a specific response of the drives to a particular situation with a high priority. These objects can, for example, be linked with 3 differently placed wind sensors (weather stations).

Example:

A safety object is linked to a wind sensor.

A drive to which a textile sun protection device is connected is configured to react to this safety object.

The operating condition is normal as long as a "0" is present.

In the event of a storm, the wind sensor sends a "1" to the safety object and the sun protection is immediately moved to the configured safety position.

Comments:

- 1. A safety object must only be actuated by one device, as otherwise conflicting commands could cancel each other out.
- 2. With a request for safety objects e.g. via the ETS function "Read value": If the "Safety on" status arises through cyclical monitoring, the object value remains at 0.
- 3. The safety statuses must be reinitialized after download.



• Object 247 "Central Up/Down"

This object can be used to centrally control all drives which are configured for it. For example, all of the roller blinds on one facade can be raised or lowered at the same time with one

 $\begin{array}{l} \text{push button} \\ 0 = \text{raise} \end{array}$

1 = lower

• Object 248 "Central safety rain"

This object can be used to move all drives which are configured for it into a defined position when there is a central rain alarm.

• **Object 249** "Central safety frost"

This object can be used to move all drives which are configured for it into a defined position when there is a central frost alarm.

• Object 250 "Version of bus coupling unit"

For diagnostic purposes only.

Sends the bus coupling unit software version after reset or download. Can also be read out via the ETS.

Format: Axx Hyy Vzzz

Code	Meaning
XX	00 FF = Version of application without dividing point ($10 = V1.0, 11 = V1.1, etc.$).
уу	Hardware version 0099
ZZZ	Firmware version 000999

EXAMPLE: A12 H00 V09

- ETS application version 1.2
- Hardware version \$00
- Firmware version \$09



• **Object 251, 252** "Firmware version 1.2"

For diagnostic purposes only.

Sends the firmware versions of the device after reset or download. Can also be read out via the ETS.

The version is issued as an ASCII character string.

Format: Mxx Hyy Vzzz

Code	Meaning
XX	01 FF = Module code (hexadecimal).
уу	Hardware version 0099
ZZZ	Firmware version 000999

EXAMPLE: M17 H00 V05

- Module \$17 = GKA-16K8K KNX
- Hardware version V00
- Firmware version V05



3.3 Parameter

3.3.1 Common parameter pages

Table 7

Function	Description
General	General parameters.

3.3.2 Parameter pages for the switch actuator

Table 8

Function	Description	
Channel Cx	Characteristics of channel and activation of additional functions (scenes,	
Configuration options	links, etc.).	
Contact characteristics	Type of contact and status after download, bus failure etc.	
Threshold	Settings for triggering channel function through exceeding threshold.	
Block function	Type of block telegram and response to blocking.	
Scenes	Selection of scene numbers relevant to the channel.	
Feedback	Status of feedback object etc.	
Hour counter and	Type of hour counter and, if required, service interval etc.	
service		
Link	Selection of logical link.	

3.3.3 Parameter pages for the blinds actuator

Channel Cx	Characteristics of channel and activation of additional functions (scenes,		
Configuration options	sun protection, block, etc.).		
Drive settings	Direction of movement, runtimes, etc.		
Block function	Type of block telegram and response to blocking.		
Safety wind/rain/frost	Priority and participation in the safety objects for wind, rain and frost.		
Presets	8 preset heights and slat positions that can be called up via scenes or 1-bit		
	objects		
Scenes	Selection of scene numbers relevant to the channel.		
Positions over 1 bit	Behaviour when calling up or leaving the 1-bit positions		
Power failure and	Behaviour during mains or bus failure and restoration.		
restoration			

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3.3.4 Parameter description for common parameters

Settings that lead to the display of other pages or functions are identified by \dots Example: $Pulse\ function$.

3.3.4.1 The "General" parameter page

Designation	Values	Description
Device type	GKA-8K4K KNX	Select device type.
	GKA-16K8K KNX	
Function of the manual	applies for 24 hours or until	Determines how long the device works
button	reset via object	manually and how this is ended.
	blocked	
	applies until reset via object	In manual mode, the channels can only
	applies for 30 minutes or until	be switched on and off via the buttons
	reset via object	on the device.
	applies for 1 hour or until reset	See also: object 78
	via object	
	applies for 2 hours or until reset	
	via object	
	applies for 4 hours or until reset	
	via object	
	applies for 8 hours or until reset	
	via object	
	applies for 12 hours or until	
	reset via object	
Manual operation of the	enabled	The channels can be operated via the
channels		buttons on the device.
	blocked	No manual operation, the buttons on the
		device are locked.



3.3.4.2 Parameter page "Channels C1-C8 (or C9-C16)"

Designation	Values	Description
Channel C1 function	Switch actuator	Select channel function.
	Blinds actuator	
Channel C2 function	Switch actuator	Select channel function.
	Blinds actuator	
Channel C3 function	Switch actuator	Select channel function.
	Blinds actuator	
Channel C4 function	Switch actuator	Select channel function.
	Blinds actuator	
Channel C5 function	Switch actuator	Channel is used as a switch actuator
	used for C1 blinds	Channel is required together with C1 for
		the blinds function.
Channel C6 function	Switch actuator	Channel is used as a switch actuator
	used for C2 blinds	Channel is required together with C2 for
	y	the blinds function.
Channel C7 function	Switch actuator	Channel is used as a switch actuator
	used for C3 blinds	Channel is required together with C3 for
		the blinds function.
Channel C8 function	Switch actuator	Channel is used as a switch actuator
	used for C4 blinds	Channel is required together with C4 for
	J	the blinds function.
Send collective feedback	no	No collective feedback, object is
(Only switching actuator channels)		unavailable (obj. 79, 159, 239).
characts)	report as inactive	Object value cannot be requested.
	only at change	Sends whenever a channel status
		changes.
	cyclically and at change	Sends cyclically and with status changes
		See appendix: collective feedback



Designation	Values	Description
Relay switch delay		This parameter sets the minimum delay between switching on 2 relays if several are activated at the same time. The shortest delay is achieved by using the central switch object (object 242).
		When switching on via individual telegrams (1 telegram per channel), the bus running times and the sequential processing of commands cause an additional delay.
		This can help avoid high current peaks when devices are switched on simultaneously (e.g. with a number of lighting strips).



3.3.4.3 The "Channel Cx: Configuration options" parameter page

Table 9

Designation	Values	Description
Channel function	Switching On/Off	Determines the basic functionality of the
	On/off time delay	channel.
	Pulse function	
	Staircase light time switch with	
	forewarning function	
	Flashing	
Activation of function via	Switch object	The channel is operated via a 1-bit
		object.
	Exceeding the threshold	
		exceeding a 1 or 2-byte threshold.
		See below: The "Threshold" parameter
		page
Activate block function	Yes	The block function can be individually
		adjusted.
		The relevant parameter page is shown.
	no	No block function.
Activate scenes	Yes	Should scenes be used?
	no	
Participation in central	no	Central objects are not taken into
objects		account.
	~	
	at Central switching, Permanent	Which central objects are to be taken
	On, Permanent OFF	into account?
	only in central permanent ON	
	only in central permanent OFF	Central objects enable simultaneous
	only in central switching	switching on and off of several channels
	only in central switching and	with one single object.
	permanent ON	
	only in central switching and	
	permanent OFF	
	only in central permanent On	
	and permanent OFF	



Designation	Values	Description
Adjust feedback	Yes	The feedback function can be
		individually adjusted.
		The relevant parameter page is shown.
	no	The <i>Feedback</i> function works with the standard parameters:
		- not inverted
		- do not transmit cyclically
Activate hour counter	Yes	Is the hour counter/service interval
	no	function to be used?
Activate link	Yes	Are logical links to be used with the
	no	channel object?



3.3.4.4 The "Contact characteristics" parameter page

Table 10

Designation	Values	Description
Type of contact	NO contact	Standard:
		The relay contact is closed when a
		switch-on command is issued.
	Opening contact	
		The relay contact is opened when a
		switch-on command is issued.
Status with download		After download or with loss of bus
and bus failure		voltage
and ous failure	OFF	_
	011	the foliay formathis switched off.
	ON	the relay switches on.
	unchanged	the relay remains in the same state as
	g	before.
Status after restoration		After return of mains or bus voltage
of the mains supply or		
bus supply		
	OFF	the relay remains switched off.
	ON	the relay switches on.
	Same as before failure	the relevinements in the same state as
	Same as before failure	the relay remains in the same state as before.
		octore.



3.3.4.5 The "On/Off delay" parameter page

This parameter page appears if On/Off delay is chosen as the Channel function.

Table 11

Designation	Values	Description
Switch-on delay		
hours (03)	03	Input of desired switch-on delay in
		hours.
minutes (060)	0 60	Input of desired switch-on delay in
		minutes.
seconds (0.225)	0 255	Input of desired switch-on delay in
		seconds.
Switch-off delay		
hours (03)	0 3	Input of desired switch-off delay in
		hours.
minutes (060)	0 60	Input of desired switch-off delay in
		minutes.
seconds (0.255)	0 255	Input of desired switch-off delay in
		seconds.

3.3.4.6 The "Pulse function.." parameter page

This parameter page appears if *Pulse function* is chosen as the *Channel function*.

Table 12

Designation	Values	Description
hours (03)	0 3	Input of desired pulse duration in hours.
minutes (060)	0 60	Input of desired pulse duration in
		minutes.
seconds (0.255)	0 255	Input of desired pulse duration in
		seconds.
Pulse can be retriggered	Yes	The pulse can be extended
(with 1 on switch object)		as often as desired via a 1-telegram
	no	The pulse cannot be extended.
Pulse can be reset	Yes	The pulse can be ended early at anytime
(with 0 on switch object)		via a 0-telegram.
	no	The pulse cannot be ended early

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3.3.4.7 The "Staircase light with forewarning function .." parameter page

This parameter page appears if *Staircase light with forewarning function* is chosen as the *Channel function*.

The user can, anytime, press a push button again, to extend the staircase light time.

Table 13

Designation	Values	Description
Staircase light time (min. 1	1 s)	
hours (03)	03	Input of desired staircase light time in hours.
minutes (060)	0 60	Input of desired staircase light time in minutes.
seconds (0.255)	0255 Default value = 1	Input of desired staircase light time in seconds.
The maximum sum of pulses 140	140	determines how long the staircase light time can be extended by pressing the button again.
Duration of 1st forewarning in s (060)	0	the staircase light time is completed.
	160 Default value = 10	Once the staircase light time is completed, the light should briefly flash and then stay on for the duration of the forewarning
Duration of 2nd forewarning in s (060)	160 Default value = 10	No 2nd forewarning. The light switches off at the end of the 1st forewarning. Second forewarning:

Example of forewarning function:

Example of forewarming function:					
Staircase light time	Flashing	1st forewarning	Flashing	2nd	OFF



3.3.4.8 The "Flashing.." parameter page

This parameter page appears if *Flashing* is chosen as the *Channel function*.

Table 14

Designation	Values	Description
ON phase of flash pulse		
hours (03)	0 3	Input of desired pulse time (t _i) in hours.
minutes (060)	0 60	Input of desired pulse time in minutes.
seconds (0.255)	0255	Input of desired pulse time in seconds.
OFF phase of flash pulse		
hours (03)	03	Input of desired length of break (t_p) in hours.
minutes (060)	0 60	Input of desired length of break in minutes.
seconds (0.255)	0255	Input of desired length of break in seconds.
How often should it flash	Until it switches off	The channel flashes until a switch-off telegram is received.
	1 x	The channel flashes as often as set here.
	2x	
	3 x 4 x	
	5x	
	7 x	
	10 x	
	15 x	
	20 x 30 x	
	50 x	



3.3.4.9 The "Threshold" parameter page

This side is shown if the Activation of the function by parameter is set to Exceeding threshold.

Table 15

Designation	Values	Description
Type of threshold object	Object type: Percent (DPT	Value type for threshold.
	5.001)	
	Object type: Counter value	
	0255 (DPT 5.010)	
	Object type: Counter value	
	065535 (DPT 7.001)	
	Object type: EIS5 e.g. CO2,	
7	brightness etc. (DPT 9.xxx)	
Response on exceeding		Should the channel switch on or off on
the threshold		exceeding the threshold?
		The set <i>type of contact</i> must be taken into account here.
		into account here.
	As switch object = 0	NO contact: the relay switches off if
	As switch object = 0	threshold is exceeded.
		Opening contact: The relay switches on
		if threshold is exceeded.
		in threshold is exceeded.
	As switch object = 1	<i>NO contact</i> : The relay switches on if
		threshold is exceeded.
		Opening contact: the relay switches off
		if threshold is exceeded.
	Parameter for <i>Percent</i> thresho	old object
Threshold		Desired threshold.
	Default value = 50%	
		$switch\ object = 1$:
		Switches on when:
		Object value > threshold
		Switches off when:
		Object value = threshold - hysteresis
Hysteresis (as %)	199%	
	Default value = 10%	switching after small fluctuations in
		readings.



Designation	Values	Description	
I	Parameter for threshold object Cour	ounter value 0255	
Threshold	1254	Desired threshold.	
	Default value = 127	Example of <i>NO contact</i> with response <i>as</i>	
		$switch\ object = 1$:	
		Switches on when:	
		Object value > threshold	
		Switches off when:	
		Object value = threshold - hysteresis	
Hysteresis	1254	The hysteresis prevents frequent	
	$Default\ value=5$	switching after small fluctuations in	
		readings.	
	grameter for threshold object Count		
Threshold		Desired threshold.	
	Default value = 1000	Example of <i>NO contact</i> with response <i>as</i>	
		$switch\ object = 1$:	
		Switches on when:	
		Object value > threshold	
		Switches off when:	
		Object value = threshold - hysteresis	
Hysteresis	165534		
	Default value = 5		
	meter for threshold object EIS5 (e.g		
Threshold		Desired threshold.	
Format (-)0.0099999	Default value = 20	Example of <i>NO contact</i> with response <i>as</i>	
		$switch\ object = 1$:	
		Switches on when:	
		Object value > threshold	
		Switches off when:	
		Object value = threshold - hysteresis	
Hysteresis	0.009999		
0.009999	$Default\ value=1$	switching after small fluctuations in	
		readings.	



3.3.4.10 The "Block function" parameter page

This page appears when *Adjust block function* is selected on the *Configuration options* parameter page.

Table 16

Designation	Values	Description
Block telegram	Block with ON telegram	0 = Cancel block
		1 = Block
	Block with OFF telegram	0 = Block
		1 = Cancel block
		Note: The block is always deactivated
		after reset.
Response when setting	OFF	Switch off
the block		
	ON	Switching on
	unchanged	No response
Response when	OFF	Switch off
cancelling the block		
	ON	Switching on
	Unchanged	No response
	update	Restore normal operation and switch
		relay accordingly.



3.3.4.11 The "Scenes" parameter page

This page appears when the *Scenes* are activated on the *Configuration options* parameter page. Each channel can participate in up to 8 scenes.

Table 17

Designation	Values	Description
Block telegram for	Block with ON telegram	0 = Cancel block
scenes		1 = Block
	Block with OFF telegram	0 = Block
		1 = Cancel block
		Note: With this setting the scenes are
		always locked immediately after reset or
		download.
All channel scene	Overwrite on download	A download deletes all scene memories
statuses		in a channel, i.e. all previously taught-in
		scenes.
		When a scene number is called, the
		channel assumes the configured <i>Status</i>
		after download (see below).
		See appendix: Teach in scenes without
		telegrams
	Unchanged after download	All previously taught-in scenes are
		saved.
		However, the scene numbers the channel
		should react to can be changed (see
		below: Channel reacts to).
Participation in central		Should the device react to the central
scene object	yes	scene object?
~; ·		
Channel reacts to		First of the 8 possible scene numbers the
	Scene number 1	channel is to react to.
	g 1 62	
Ctatus after J11	Scene number 63	Now exitable a status that the salest d
Status after download	00	New switching status that the selected scene number is to be allocated to.
	On	scene number is to be allocated to.
		Only possible if the scene statuses are to
		be overwritten after download.
		be overwritten arter download.
Permit teach in	No	Scenes can only be called up.
2 0.11000 000010 010	110	Section only so sured up.
	Yes	The user can both call up and teach in or
	103	amend scenes.



Designation	Values	Description
Channel reacts to		Second of the 8 possible scene numbers
Citative reacts to	Scene number1	second of the o possible seems numbers
	Scene number 2	
	seene number 2	
	Scene number 63	
Status after download	Off	See above.
	On	
Permit teach in	No	See above.
	Yes	
) I	TEL: 1 C.1 O :11
Channel reacts to		Third of the 8 possible scene numbers
	Scene number1	
	Scene number 3	
	Scene number 3	
	Scene number 63	
Status after download	Off	See above.
	On	
Permit teach in	No	See above.
	Yes	
Channel reacts to		Fourth of the 8 possible scene numbers
	Scene number1	
	Scene number 4	
	 Scene number 63	
Status after download	Off	See above.
Sidius djier downiodd	On	See above.
Permit teach in	No	See above.
2 0,7,000 1000000000000000000000000000000	Yes	
Channel reacts to	No scene number	Fifth of the 8 possible scene numbers
	Scene number1	
	Scene number 5	
	 So on a numb on 62	
Status after devented	Scene number 63	Saa ahaya
Status after download	Off On	See above.
Permit teach in	No No	See above.
1 Citive reacts tit	Yes	300 400 10.
Channel reacts to	No scene number	Sixth of the 8 possible scene numbers
	Scene number1	
	Scene number 6	
	Scene number 63	



Designation	Values	Description
Status after download	Off	1
	On	
Permit teach in	No	See above.
	Yes	
Channel reacts to	No scene number	Seventh of the 8 possible scene numbers
	Scene number1	
	Scene number 7	
	Scene number 63	
Status after download	Off	See above.
	On	
Permit teach in	No	See above.
	Yes	
Channel reacts to		Last of the 8 possible scene numbers
	Scene number1	
	•••	
	Scene number 8	
	Scene number 63	
Status after download	Off	See above.
	On	
Permit teach in	No	See above.
	Yes	



3.3.4.12 The "Feedback" parameter page

This page appears when Adjust feedback is selected on the Configuration options parameter page.

Table 18

Designation	Values	Description
Reported status	Not inverted	Channel switched on: feedback object
		sends a 1
	inverted	Channel switched on: feedback object
		sends a 0
Transmit feedback	No	Send at regular intervals?
cyclically	yes	
Time for cyclical	2 minutes, 3 minutes,	At what interval?
transmission of feedback	5 minutes, 10 minutes,	
	15 minutes, 20 minutes,	
	30 minutes, 45 minutes	
	60 Minutes	



3.3.4.13 The "Hour counter and service" parameter page

This page appears when *Activate operating hours counter* is selected on the *Configuration options* parameter page.

Table 19

Designation	Values	Description
Type of hour counter	Hour counter	Forward counter for duty cycle of the
		channel.
		Backward counter for duty cycle of the
	next service	channel.
	Hour counter	
Reporting of operating	0100	At what interval is the current meter
hours when changing	Default value = 10	
(0100 h, 0 = no report)	Dejami vaine – 10	Example:
(0100 h, 0 = no report)		10 = Send each time the meter reading
		increases by another 10 hours.
Report operating hours	No	Send at regular intervals?
cyclically	ves	Send at regular intervals:
Time for cyclical	2 minutes, 3 minutes,	At what interval?
transmission	5 minutes, 10 minutes,	The what interval.
i circinitistori	15 minutes, 20 minutes,	
	30 minutes, 45 minutes	
	60 Minutes	
	Counter for time period before	next service
Service interval	02000	
(02000, x10 h)	Default value = 100	
		$10 = 10 \times 10 \text{ h}$
		= 100 hours
Reporting of time to	0100	At what interval is the current meter
service when changing	$Default\ value = 10$	reading to be sent?
(0100 h, 0 = no report)		Example:
		10 = Send each time the meter reading
		decreases by another 10 hours.
Report time to service	no	
cyclically	Yes	regular intervals?
		→ Object <i>Time to next service</i> .
Report service cyclically	no	1 /
	Yes	service has expired at regular intervals?
		→ Object Service required.



Designation	Values	Description
Time for cyclical	2 minutes, 3 minutes,	At what interval?
transmission (time to	5 minutes, 10 minutes,	
service and service	15 minutes, 20 minutes,	
	30 minutes, 45 minutes	
	60 Minutes	



3.3.4.14 The "Link" parameter page

This page appears when Activate link is selected on the Configuration options parameter page.

An additional object appears, which forms a logical link in combination with the channel's switching/threshold object.

The channel only switches if the link requirement has been met.

Table 20

Designation	Values	Description
Activate link		Selection of logical link with the
		channel object
	AND link	The Logic input in AND gate object
		appears (e.g. object 1).
	OR link (override)	The <i>Logic input in OR gate</i> object
		appears (e.g. object 1).
	XOR link	The Logic input in XOR gate object
		appears (e.g. object 1).
District of official	X 7 -	The block shiest only offerte the
Block object affects logic	No.	The block object only affects the
object		channel object (e.g. object 0).
		If required, the logic object can activate the channel function despite block (with
		OR and XOR link).
		OK and AOK mik).
	ves	The block object affects the channel
	yes	object and the logic object.
		The channel function is completely
		blocked if the block is active.



3.3.5 Parameter description for the blinds actuator

3.3.5.1 The "General" parameter page

Designation	Values	Description
Relay switch delay		This parameter sets the minimum delay between switching on 2 relays if several are activated at the same time. The shortest delay is achieved by using the central UP/DOWN object (Obj. 247).
		When switching via individual telegrams (1 telegram per channel), the bus running time and the sequential processing of commands causes an additional delay.
		This can help avoid high current peaks when devices are switched on simultaneously
	None	There is no added delay.
	60 ms 100 ms 200 ms	When a relay has switched on, the next one (within the module) can only switch on after the set delay is completed. The switch-on delay between the first and last relay is calculated according to the following formula: (Number of channels – 1) x delay Example:
		GKA-8K4K KNX and 60 ms: = (4 channels – 1) * 60 ms = 180 ms → Last channel switches with a delay of 180 ms.



3.3.5.2 The "Channel Cx: Configuration options" parameter page

Table 21

Designation	Values	Description
Type of hanging	Blinds	The type of hanging which is to be
	Roller blinds/awning/general	actuated
	drive	
Activate block function	Yes	Should the block function be used?
	no	
Activate scenes	Yes	Should scenes be used?
	no	
Block Comfort/Auto on		Suppression of the Comfort/Auto
UP/DOWN/STOP		function by manual positioning via On,
command		Off or Stop telegrams.
		No suppression: Comfort/Auto remains
	Comfort/Automatic	active after manual positioning.
		Comfort/Auto can be ended both by
	Comfort/Automatic OFF	manual positioning and via the object
		Comfort/Automatic.
	was and after 0.5 h OFF	The Comfort/Auto function is looked for
		The <i>Comfort/Auto</i> function is locked for the set time via manual positioning.
	yes, ana ajier 1 n OFF	Once this time has lapsed, <i>Comfort/Auto</i>
	yes, and after 2 h OFF	
	yes, and after 2 h O11	to height telegrams.
	yes, and after 48 h OFF	The block can be ended at any time via
	yes, and after 10 h 011	the object <i>Comfort / Automatic</i> (=1).
Format of height	%	· ·
feedback	,,	
	1 bit	New: The location is sent as a 1-bit
		telegram (DPT1.009).
		0%, open = 0
		> 0%, closed = 1



3.3.5.3 The "Drive settings" parameter page

Table 22

Designation	Values	Description
Direction of drive run	normal	Standard setting:
		Hanging moves from top to bottom.
	inverted	For special applications or quick fix for
		wrongly wired devices (up/down
		directions mixed up).
Complete runtime Down	Manual input	Only available when <i>Drive runtime</i>
(s)	5500	setting = via ETS.
		Enter the measured runtime for
		descending (in seconds).
Runtime adjustment for	Manual input	Enter difference between runtime when
ascent (s)	-15 +15	ascending and runtime (in seconds)
		when descending.
		Correction value = $t_{Up} - t_{Down}$
Step duration of	No steps	Only for roller blinds/awning/general
Step/Stop object	250 ms	
		This specifies whether or not it should
		be possible to adjust the drive in small
		steps, and it also specifies the duration
	3 s	of a single step.
	4 s	
	5 s	
	6 s	
	7 s	
	10 s	
Complete slat turning	4 250	Enter the measured turn time of the slats
4 250 [x100 ms]		in increments of 100 ms.
No of the control of	2 04	$10 = 10 \times 100 \text{ ms} = 1s$ This are sifferently a realized to a result of the dividual of the state of the
No. of steps for a	3 Steps	This specifies the number of individual
complete turn	4 Steps	
	7 Steps	divided fillo (5 to 12).
	 12 Steps	
	12 Sieps	



Designation	Values	Description
On receipt of a step/stop	Process immediately	Every received step command is carried
command	(recommended)	out immediately
	Wait 0.3 s to see if an UP/DOWN	Step commands are only executed if no
	command follows	operating command is received within
	Wait 0.4 s to see if an UP/DOWN	the set time.
	command follows	These settings apply to push buttons
	Wait 0.5 s to see if an UP/DOWN	which, when pressed and held, first send
	command follows	a step command and then an operating
		command.
Tighten fabric (awning)	yes	Only for roller blinds/awning/general
		drive.
		At values above 70%, the hanging,
		awning or roller blind will be
		retightened by moving back briefly.
		On roller blinds it is guaranteed that the
		vent slots will remain open.
		No tensioning.
Pause time before		Pause introduced to protect the drive
reversal of direction		motor against conflicting commands
		(e.g. if a descend command is received
	3 s	C,
		This setting depends on the information
		supplied by the manufacturer of the
		drive
Automatic execution of	yes	•
the slat object value	no	`
[%] after the height		be resumed after the height adjustment
object [%]		via the height object % Height.
Assignment of the 0%	0% corresponds to slat position	Input of the starting position for the
position to the slat	on lowering	calculations of the slat turn.
objects [%]	0% corresponds to slat position	
	on ascending	
Participation in central	yes	Should the drive respond to the central
Up/Down object	no	object?
Transmission of feedback	only at change	When should feedback
	cyclically and at change	(Obj. Slat feedback and Height
		feedback) be sent?
Time for cyclical	2 minutes, 3 minutes,	If cyclically, at what interval?
transmission of feedback	5 minutes, 10 minutes,	
	15 minutes, 20 minutes,	
	30 minutes, 45 minutes	
	60 Minutes	



3.3.5.4 The "Block function" parameter page

This page can be activated on the Configuration options parameter page.

Table 23

Designation	Values	Description
Block telegram	Block with ON telegram	0 = Cancel block
_	g	1 = Block
	Block with OFF telegram	0 = Block
		1 = Cancel block
		Note: The block is always deactivated
		after reset.
Response when setting	Preset 1	Approach a preset position.
the block	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	unchanged (stopped upon	Do not react. The drive should stop
	operating command)	when a block command is received
		during a movement.
Response when	Preset 1	Approach a preset position.
cancelling the block	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
		Do not react. The drive should stop
	operating command)	when a block command is received
		during a movement.
	Update (height/slat)	Approach last received position.



3.3.5.5 The "Safety Wind/Rain/Frost" parameter page

Table 24

Priority of safety objects 1. Wind 2. Rain, 3. Frost 1. Wind, 2. Frost, 3. Rain 1. Rain, 2. Wind, 3. Frost 1. Rain, 2. Frost, 3. Wind 1. Frost, 2. Wind, 3. Rain 1. Frost, 2. Wind, 3. Rain 1. Frost, 2. Rain, 3. Wind 1. Rain, 2. Frost,	Designation	Values	Description
## A summer of the highest priority will be simplemented. Rain, 2. Wind, 3. Roin 1. Frost, 2. Wind, 3. Rain 1. Frost, 2. Rain, 3. Wind 1. Frost, 3. Wind 1. Frost, 2. Rain, 3. Wind 1. Frost, 2. Rain, 3. Wind 1. Frost, 3. Wind 1. Frost, 3. Wind 1. Frost, 2. Rain, 3. Wind 1. Frost, 3. Wind 1. Fros	Priority of safety objects	1. Wind 2. Rain, 3. Frost	If wind, rain and frost alarm occur
1. Rain, 2. Frost, 3. Wind 1. Frost, 2. Wind, 3. Rain 1. Frost, 2. Rain, 3. Wind 1. Frost, 2. Rain, 3. Wind 1. Frost, 2. Rain, 3. Wind 1. Rain, 2. Frost, 3. Wind The parameters with priority 1 apply, i.e. Start and End of Safety rain. If the rain alarm (Priority 1) is cancelled, the parameters for the object with priority 2 apply, here Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically Monitor safety objects cyclically Roman Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or		1. Wind, 2. Frost, 3. Rain	together, the parameters of the object
1. Frost, 2. Wind, 3. Rain 1. Frost, 2. Rain, 3. Wind The parameters with priority 1 apply, i.e. Start and End of Safety rain. If the rain alarm (Priority 1) is cancelled, the parameters for the object with priority 2 apply, here Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically **Roy Homin every 10 min every 20 min every 20 min every 60 min **every 60 min every min every 60 min every min every ev		1. Rain, 2. Wind, 3. Frost	with the highest priority will be
1. Frost, 2. Rain, 3. Wind The parameters with priority 1 apply, i.e. Start and End of Safety rain. If the rain alarm (Priority 1) is cancelled, the parameters for the object with priority 2 apply, here Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically no No monitoring. After mains failure the safety object will be reset to 0. Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or		1. Rain, 2. Frost, 3. Wind	implemented.
The parameters with priority 1 apply, i.e. Start and End of Safety rain. If the rain alarm (Priority 1) is cancelled, the parameters for the object with priority 2 apply, here Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically no every 10 min every 20 min every 20 min every 60 min every 60 min Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or		1. Frost, 2. Wind, 3. Rain	Example:
i.e. Start and End of Safety rain. If the rain alarm (Priority 1) is cancelled, the parameters for the object with priority 2 apply, here Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically Monitor safety objects roo every 10 min every 20 min every 20 min every 60 min Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or		1. Frost, 2. Rain, 3. Wind	1. Rain, 2. Frost, 3. Wind
If the rain alarm (Priority 1) is cancelled, the parameters for the object with priority 2 apply, here Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically no every 10 min every 20 min every 20 min every 60 min every 60 min Every 10 min every 60 m			The parameters with priority 1 apply,
the parameters for the object with priority 2 apply, here Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically no No monitoring. After mains failure the safety object will be reset to 0. every 10 min every 20 min every 20 min every 60 min The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 min the priority 2 is also cancelled, the one with priority 3 applies. No monitoring. Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			i.e. Start and End of Safety rain.
priority 2 apply, here Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically no every 10 min every 20 min every 60 min every 60 min Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			If the rain alarm (Priority 1) is cancelled,
Frost - Start. If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically No monitoring. After mains failure the safety object will be reset to 0. Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			the parameters for the object with
If the object with priority 2 is also cancelled, the one with priority 3 applies. Monitor safety objects cyclically no every 10 min every 20 min every 60 min every 60 min every 60 min The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			priority 2 apply, here
cancelled, the one with priority 3 applies. Monitor safety objects cyclically no every 10 min every 20 min every 60 min Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			
monitor safety objects cyclically applies. No monitoring. After mains failure the safety object will be reset to 0. safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			1 1
Monitor safety objects cyclically Ro monitoring. After mains failure the safety object will be reset to 0. Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			
After mains failure the safety object will be reset to 0. **every 10 min** every 20 min** every 60 min** **every 60 min** every 60 min** The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. **Max. cycle time = Monitoring time/2 Example: **Monitoring time = every 20 minutes, cyclical transmission time = 10 min or** **After mains failure the safety object will be reset to 0. **Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.).			* *
be reset to 0. **every 10 min every 20 min every 60 min** **every 60 min** **overy 60 min** **over		no	
every 10 min every 20 min every 60 min Safety objects that do not receive any telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or	cyclically		
every 20 min every 60 min telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			be reset to 0.
every 20 min every 60 min telegrams within the time set here will be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or		10	
be handled as if they had received an ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or		•	
ON telegram and trigger an alarm (e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or		•	S .
(e.g. WIND, etc.). The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or		every 60 min	•
The sender of the safety telegrams (e.g. weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			
weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			(e.g. wind, etc.).
weather station) must transmit them cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			The sender of the sefety telegroms (e.g.
cyclically. Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			• •
Max. cycle time = Monitoring time/2 Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			<i>'</i>
Example: Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			1 * * *
Monitoring time = every 20 minutes, cyclical transmission time = 10 min or			-
cyclical transmission time = 10 min or			*
			•
			less.



Designation	Values	Description
Participation in safety	yes	Should channel react to wind alarm?
WIND	no	
Source(s)	Safety object 1 wind	Which safety objects are used for wind
	Safety object 2 wind	alarm?
	Safety object 3 wind	
	Safety object $1 + 2$ (OR linked)	
	Safety object $1 + 3$ (OR linked)	
	Safety object $2 + 3$ (OR linked)	
	Safety object $1 + 2 + 3$ (OR)	
	linked)	
Start		Start on wind alarm:
	Preset 1	Approach a preset position.
	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	unchanged (stopped upon	Do not react. The drive should stop upon
	operating command)	safety start during a movement.
End		End on wind alarm:
	same as before safety	move back to the previous position.
	Preset 1	Approach a preset position.
	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	Update (height/slat)	Approach last received position.
	no response	Do not react.



Designation	Values	Description
Participation in safety	yes	Should channel react to rain alarm?
RAIN	no	
Start		Start on rain alarm:
	Preset 1	Approach a preset position.
	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	unchanged (stopped upon	Do not react. The drive should stop upon
	operating command)	safety start during a movement.
End		End on rain alarm:
	same as before safety	move back to the previous position.
	Preset 1	Approach a preset position.
	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	
	Lower end position	
	Update (height/slat)	Approach last received position.
	no response	
Participation in safety	yes	Should channel react to frost alarm?
FROST	no	
Start		Start on frost alarm:
	Preset 1	Approach a preset position.
	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	unchanged (stopped upon	Do not react. The drive should stop upon
	operating command)	safety start during a movement.



Designation	Values	Description
End		End on frost alarm:
	same as before safety	move back to the previous position.
	Preset 1	Approach a preset position.
	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
		Approach an end position.
	Lower end position	
	Update (height/slat)	Approach last received position.
	no response	
Response after priority on safety		Priority on safety will be used when the roller blinds or sun protection devices must remain stationary in an end position for a certain time, e.g. for
		window cleaning.
		See object 8. This operating mode has the highest priority level.
	Preset 1	Approach a preset position.
	Preset 2	
	Preset 3	I
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	no reaction, unchanged	Do not react.
	Update (height/slat)	Approach last received position.



3.3.5.6 The "Presets" parameter page

With the presets, the user can freely configure presettings for drive height and slat position. These can, for example, be called up with *Safety* with *Set or cancel the block* or when a scene is cancelled.

Table 25

Designation	Values Description					
Preset 1						
Position		Desired drive height and slat position for				
	30%, 40%, 50%	preset 1				
	60%, 70%, 80%					
	90%, 100%,					
CI.	no change					
Slat	0%, 10%, 20% 30%, 40%, 50%					
	60%, 70%, 80%					
	90%, 100%,					
	no change					
Preset 2						
Position	See above	Desired drive height and slat position for				
Slat	See above	preset 2				
Preset 3						
Position	See above	Desired drive height and slat position for				
Slat	See above	preset 3				
Preset 4						
Position	See above	Desired drive height and slat position for				
Slat	See above	preset 4				
Preset 5						
Position	See above	Desired drive height and slat position for				
Slat	See above	preset 5				
Preset 6						
Position	See above	Desired drive height and slat position for				
Slat	See above	preset 6				
Preset7						
Position	See above	Desired drive height and slat position for				
Slat	See above	preset 7				
Preset 8						
Position	See above	Desired drive height and slat position for				
Slat	See above	preset 8				



3.3.5.7 The "Scenes" parameter page

This page appears when the *Scenes* are activated on the *Configuration options* parameter page. Each channel can participate in up to 8 scenes.

Each of these 8 scenes reacts to a specific, freely configurable scene number.

When the associated number is called up, the taught in position will be approached.

Each of the 8 scenes is preconfigured with a position from the Presets page.

When a scene number that has not been taught in is received, this preset position will be called up.

Table 26

Designation	Values	Description
Block telegram for	Block with ON telegram	0 = Cancel block
scenes		1 = Block
	Block with OFF telegram	
		1 = Cancel block
		Note: With this setting the scenes are
		always locked immediately after reset or
		download.
All channel scene	Overwrite on download	
statuses		in a channel, i.e. all previously taught-in
		scenes.
		When a scene number is called, the
		channel assumes the configured <i>Status</i>
		after download (see below).
		See appendix: Teach in scenes without telegrams
		telegrams
	Unchanged after download	All previously taught-in scenes are
	enenangea agree ae miesta	saved.
		However, the scene numbers the channel
		should react to can be changed (see
		below: Channel reacts to).
Participation in central	No	Should the device react to the central
scene object	yes	scene object?



Designation	Values	Description
Response when		Behaviour when object 6 receives the
unlocking the scene		value 63 (\$3F) and thus the current
(with scene value 63)		scene is cancelled.
,		
	Preset 1	Approach a preset position.
	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	no response	Do not react.
	Update (height/slat)	
1st scene - Preallocated pre		1
Channel reacts to	No scene number	First of the 8 possible scene numbers the
	Scene number 1 (value = 0)	channel is to react to.
	Scene number 63 (value = 62)	
Comment for this scene	(Enter name)	Description or comment for this scene
number		number.
Block comfort/automatic	no	During this scene the channel continues
during this scene		to react to height and slat telegrams
	yas.	During this scene the channel no longer
	yes	reacts to height and slat telegrams.
		The Up/Down function is maintained.
		The Op/Down function is maintained.
Permit teach in	No	Scenes can only be called up.
	Yes	The user can both call up and teach in or
		amend scenes.
2nd scene - Preallocated pr		
Channel reacts to		Second of the 8 possible scene numbers
	Scene number 1 (value = 0)	
	Scene number 2 (value = 1)	
G	Scene number 63 (value = 62)	G 1
Comment for this scene	(Enter name)	See above.
number		G 1
Block comfort/automatic	no	See above.
during this scene	yes	
Permit teach in	No	See above.
	Yes	



Continuation:	X / 1	D
Designation	Values	Description
3rd scene - Preallocated pr		
Channel reacts to		Third of the 8 possible scene numbers
	Scene number 1 (value = 0)	
	Scene number 3 (value = 2)	
	Scene number 63 (value = 62)	
Comment for this scene	(Enter name)	See above.
number	,	
Block comfort/automatic	no	See above.
during this scene		See above.
Permit teach in	yes No	See above.
Termii ieach in		See above.
441 Du1141	Yes	
4th scene - Preallocated pr		
Channel reacts to		Fourth of the 8 possible scene numbers
	Scene number 1 (value = 0)	
	Scene number 4 (value = 3)	
	Scene number 63 (value = 62)	
Comment for this scene	(Enter name)	See above.
number		
Block comfort/automatic	no	See above.
during this scene	yes	
Permit teach in	No	See above.
1 critic reaction	Yes	See above.
5th scene - Preallocated pr		
Channel reacts to		Fifth of the 2 possible scape numbers
Channel reacts to		Fifth of the 8 possible scene numbers
	Scene number 1 (value = 0)	
	Scene number 5 (value = 4)	
	Scene number 63 (value = 62)	
Comment for this scene	(Enter name)	See above.
number		
Block comfort/automatic	no	See above.
during this scene	yes	
Permit teach in	No	See above.
	Yes	
6th scene - Preallocated pr		
Channel reacts to	No scene number	Sixth of the 8 possible scene numbers
Citative reacts to	Scene number 1 (value = 0)	Small of the o possible seems numbers
	beene number 1 (value – 0)	
	 Soone number 6 (value – 5)	
	Scene number 6 (value = 5)	
	Company 1 62 / 1 (2)	
	Scene number 63 (value = 62)	



Designation	Values	Description
Comment for this scene	(Enter name)	See above.
number		
Block comfort/automatic	no	See above.
during this scene	yes	
Permit teach in	No	See above.
	Yes	
7th scene - Preallocated pr		
Channel reacts to		Seventh of the 8 possible scene numbers
	Scene number 1 (value = 0)	
	Scene number 7 (value = 6)	
	Scene number 63 (value = 62)	~ .
Comment for this scene	(Enter name)	See above.
number		~ .
Block comfort/automatic	no	See above.
during this scene	yes	
Permit teach in	No	See above.
0.1	Yes	
8th scene - Preallocated pr		
Channel reacts to		Last of the 8 possible scene numbers
	Scene number 1 (value = 0)	
	Scene number 8 (value = 7)	
	Scene number 63 (value = 62)	
Comment for this scene	(Enter name)	See above.
number	,	
Block comfort/automatic	no	See above.
during this scene	yes	
Permit teach in	No	See above.
	Yes	



3.3.5.8 The "Positions via 1 bit" parameter page

This page will only be shown when the *Sun protection* function is **not** activated on the *Configuration options* parameter page.

3 individual preallocated positions can be called up using 1-bit objects (Obj. 40, 41, 42).

Table 27

Designation	Values	Description
Position A		•
Response when receiving	Preset 1	Approach a preset position.
a 1	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
Response when receiving	Preset 1	Approach a preset position.
a 0	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
		Approach an end position.
	Lower end position	
	no response	Do not react.
	Update (height/slat)	Approach last received position.
Position B		
Response when receiving	See above	Desired drive height or slat position for
a 1		position B
Response when receiving	See above	
a 0		
Position C		
Response when receiving	See above	Desired drive height or slat position for
a 1		position C
Response when receiving	See above	
a 0		



3.3.5.9 The "Power failure and restoration" parameter page

Table 28

Designation	Values	Description
Response in the event of		After download or with loss of bus
download and bus failure		voltage
	Preset 1	Approach a preset position.
	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	no response	Do not react.
Behaviour after		After return of mains or bus voltage
restoration of the mains	Preset 1	Approach a preset position.
supply or bus supply	Preset 2	See Presets parameter page.
	Preset 3	
	Preset 4	
	Preset 5	
	Preset 6	
	Preset 7	
	Preset 8	
	Top end position	Approach an end position.
	Lower end position	
	no response	Do not react.



4 Appendix

4.1 Manual mode

This mode can be set or reset with the manual button or via object 78 (manual).

The object can be locked on the General parameter page.

Whether manual mode should be ended after the expiry of a set time can also be defined.

4.1.1 With blinds channels

The positions of the hangings will be frozen.

All non-safety related bus telegrams are blocked, i.e. only the safety commands (on objects 8, 244, 245, 246, 248, 249) can still be executed.

Any current operating commands will be terminated when the specified position or the end position is reached. The condition will be reported to the associated object.

After cancelling manual mode, the bus telegrams work again. Bus events already received will not be obtained later.

Manual mode will be reset after power returns.



4.2 The scenes

4.2.1 Principle

The current status of a channel can be stored and retrieved later via the scene function.

That applies to switching, blinds and dimming channels. Each channel can participate simultaneously in up to 8 scenes.

This requires permission to access scenes for the relevant channel via parameter. See Activate scenes parameter and Scenes parameter page.

The current status is allocated to the appropriate scene number when a scene is saved. The previously saved status is restored when a scene number is called up.

This allows a system to be easily associated with any user scene. Permitted scene numbers: 1...64

The scenes are permanently stored and remain intact even after the application has been downloaded again.

See parameter: All scene statuses of the channel on the Scenes parameter page.



4.2.2 Calling up or saving scenes:

To call up or save a scene, the relevant code is sent to the scene object (obj. 243).

Table 29

Soone	Ca	ll up	Save			
Scene	Hex.	Dec.	Hex.	Dec.		
1	\$00	0	\$80	128		
2	\$01	1	\$81	129		
3	\$02	2	\$82	130		
4	\$03	3 \$83		131		
5	\$04	4 \$84		132		
6	\$05	5	\$85	133		
7	\$06	6	\$86	134		
8	\$07	7	\$87	135		
9	\$08	8	\$88	136		
10	\$09	9	\$89	137		
11	\$0A	10	\$8A	138		
12	\$0B	11	\$8B	139		
13	\$0C	12	\$8C	140		
14	\$0D	13	\$8D	141		
15	\$0E	14	\$8E	142		
16	\$0F	15	\$8F	143		
17	\$10	16	\$90	144		
18	\$11	17	\$91	145		
19	\$12	18	\$92	146		
20	\$13	19	\$93	147		
21	\$14	20	\$94	148		
22	\$15	21	\$95	149		
23	\$16	22	\$96	150		
24	\$17	23	\$97	151		
25	\$18	24	\$98	152		
26	\$19	25	\$99	153		
27	\$1A	26	\$9A	154		
28	\$1B	27	\$9B	155		
29	\$1C	28	\$9C	156		
30	\$1D	29	\$9D	157		
31	\$1E	30	\$9E	158		
32	\$1F	31	\$9F	159		



Continuation:

Scene		ıll up	Save			
Scene	Hex	Dec.	Hex	Dec.		
33	\$20	32	\$A0	160		
34	\$21	33	\$A1	161		
35	\$22	34	\$A2	162		
36	\$23	35	\$A3	163		
37	\$24	36	\$A4	164		
38	\$25	37	\$A5	165		
39	\$26	38	\$A6	166		
40	\$27	39	\$A7	167		
41	\$28	40	\$A8	168		
42	\$29	41	\$A9	169		
43	\$2A	42	\$AA	170		
44	\$2B	43	\$AB	171		
45	\$2C	44	\$AC	172		
46	\$2D	45	\$AD	173		
47	\$2E	46	\$AE	174		
48	\$2F	47	\$AF	175		
49	\$30	48	\$B0	176		
50	\$31	49	\$B1	177		
51	\$32	50	\$B2	178		
52	\$33	51	\$B3	179		
53	\$34	52	\$B4	180		
54	\$35	53	\$B5	181		
55	\$36	54	\$B6	182		
56	\$37	55	\$B7	183		
57	\$38	56	\$B8	184		
58	\$39	57	\$B9	185		
59	\$3A	58	\$BA	186		
60	\$3B	59	\$BB	187		
61	\$3C	60	\$BC	188		
62	\$3D	61	\$BD	189		
63	\$3E	62	\$BE	190		
64	\$3F	63	\$BF	191		

Examples (central or channel-related):

Select status of scene 5:

 \rightarrow Send \$04 to the relevant scene object.

Save current status with scene 5:

 \rightarrow Send \$84 to the relevant scene object.



4.2.3 Teach in scenes without telegrams

Instead of defining scenes individually by telegram, this can be done in advance in the ETS. This merely requires the setting of the *All channel scene statuses* parameter (*Scenes* parameter page) to *overwrite at download*.

Accordingly, the required status can be selected for each of the 8 possible scene numbers in a channel (= *Status after download* parameter).

The scenes are programmed into the device after the download has been completed.

Later changes via teach in telegrams are possible if required and they can be permitted or blocked via parameter.

4.3 Conversion of percentages to hexadecimal and decimal values

Percentage value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Hexadecimal	00	1a	33	4D	66	80	99	В3	CC	E6	FF
Decimal	00	26	51	77	102	128	153	179	204	230	255

All values from 00 to FF hex. (0 to 255 dec.) are valid.