

KNX manual MIX 2 series actuators RMG 8 T / RME 8 T and FIX1 RM 8 T FIX2 RM 16 T



RMG 8 T	4930200
RME 8 T	4930205
RM 8 T	4940200
RM 16 T	4940205



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1 Functional characteristics

- 8-way switch or 4-way blinds actuator MIX2
- MIX2 basic module
- For extension to a maximum of 24 channels
- 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)
- Up to 2 MIX or MIX2 extension modules can be connected to a basic module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming
- Manual start-up and operation of the actuators are also possible without KNX bus module
- LED switching status indicator for each channel
- Manual operation on 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. lock, AND, release, OR



2 MIX2 and FIX1/FIX2 devices

This manual describes the MIX2 devices and can also be used with devices from the FIX Series.

A FIX1 device behaves like a MIX2 basic module.

A FIX2 device behaves like a MIX2 basic module and an extension module of the same type (e.g. blinds actuator) in a common housing.

Devices in the FIX Series (Order No. 494..):

- Cannot be extended
- Cannot be combined

The remaining functions are identical to those in the MIX2 series.

3 MIX and MIX2 devices

The MIX2 series consists, among others, of the basic modules RMG 4 I, RMG 8 S, RMG 8 T, DMG 2 T, JMG 4 T, JMG 4 T 24V, HMG 6 T as well as the extensions RME 4 I, RME 8 S, RME 8 T, DME 2 T, JME 4 T, JME 4 T 24V, HMG 6 T (as of 04/2014).

Different MiX and MIX2 extension modules can be connected to one MIX2 basic module.

Table 1

Davis trus	Order	Designation	Can be used with basic module.			
Device type	No.	Designation	in the MIX	in the MIX2		
			series	series		
MIX2 basic 493 RMG 4 I, RMG 8 S,						
modules		RMG 8 T, DMG 2 T,				
		JMG 4 T, JMG 4 T 24V,	-	-		
		HMG 6 T.				
MIX2	493	RME 4 I, RME 8 S,				
extensions		RME 8 T, DME 2 T,	no	Yes		
		JME 4 T, JME 4 T 24V,	110	168		
		HME 6 T.				
MIX basic	491	BMG 6, DMG 2 S, HMG 4,				
modules		JMG 4 S, RMG 4 S, -		-		
		RMG 4 C-load, SMG 2 S.				
MIX	491	BME 6, DME 2 S, HME 4,				
extensions		JME 4 S, RME 4 S,	yes	Yes*		
		RME 4 C-load, SME 2 S.				

^{*} Adjusted parameter display and object numbering.



3.1 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 2: Channel assignment and direction of movement for the blinds actuator*

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

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

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.



4 Technical data

Operating voltage KNX	Bus voltage, ≤ 4 mA
Operating voltage	110 – 240 V AC
Frequency	50 – 60 Hz
Standby output	$0.3 \text{ W} / 0.5 \text{W}^1$
Type of installation	DIN-rail
Width	4 module / 8 module ¹
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 ¹
Type of contact	16 A, 3 A NO contact
Contact gap	< 3 mm
Resistive load	3680 W
Incandescent and halogen lamp load	2000 W
Fluorescent lamp load (conventional) parallel-corrected	1300 W (140 μF)
Fluorescent lamp load (conventional) not corrected	2000 VA
Fluorescent lamp load (EB)	1200 W
Energy-saving lamps	300 W
LED lamps	< 2 W = 55 W > 2 W = 600 W
Voltage output	240 V AC
Switch output	Floating
Switching of different phases	Possible
Suitable for SELV	Yes, if all channels switch SELV
Ambient temperature	-5 °C +45 °C
Protection rating	IP 20
Protection class	II
¹ RM 16 T	



5 The application programme "MIX2 V1.A"

5.1 Selection in the product database

Manufacturer	THEBEN AG
Product family	Output
Product type	RMG 8 T
Program name	MIX2 V1.A

The ETS database can be found on our downloads page: www.theben.de/downloads.

Table 3

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



5.2 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.

5.2.1 Channel-related objects for the switch actuator

Table 4

No.	Object name	Function	Type		Fla	ags	
110.	Object name	Tunction	DPT	C	R	W	T
	RMG 8 T channel C1	Switch object	1 bit 1,001	С	R	W	-
	RMG 8 T channel C1	Threshold 0255	1 byte 5,010	С	R	W	-
0	RMG 8 T channel C1	Threshold 065535	2 byte 7,001	С	R	W	-
	RMG 8 T channel C1	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	C	R	W	-
	RMG 8 T channel C1	Threshold as percent	1 byte 5,001	С	R	W	1
	RMG 8 T channel C1	Logic input in OR gate	1 bit 1,001	С	R	W	-
1	RMG 8 T channel C1	Logic input in AND gate	1 bit 1,001	C	R	W	ı
	RMG 8 T channel C1	Logic input in XOR gate	1 bit 1,001	С	R	W	1
2	RMG 8 T channel C1	Lock	1 bit 1,003	С	R	W	-
3	RMG 8 T channel C1	Call up/save scenes	1 byte 18,001	С	R	W	Т
4	RMG 8 T channel C1	Enable scenes = 1	1 bit 1,003	С	R	W	-
4	RMG 8 T channel C1	Lock scenes = 1	1 bit 1,003	С	R	W	-
5	RMG 8 T channel C1	Feedback On/Off	1 bit 1,001	С	R	-	Т
6	RMG 8 T channel C1	Operating hours feedback	2 byte 7,001	С	R	W	Т
	RMG 8 T channel C1	Time to next service	2 byte 7,001	C	R	W	Т
7	RMG 8 T channel C1	Service required	1 bit 1,001	С	R	-	Т
	RMG 8 T channel C1	Reset operating hours	1 bit 1,001	С	R	W	-
8	RMG 8 T channel C1	Reset service	1 bit 1,001	С	R	W	-
	RMG 8 T channel C1	Switching with priority	2 bit 2,001	С	R	W	-



No.	Object name	Function	Type			ags	
110.	Object nume	T SHOULDH	DPT 1 bit	С	R	W	T
	RMG 8 T channel C2	Switch object	1,001	С	R	W	-
	RMG 8 T channel C2	Threshold 0255	1 byte 5,010	С	R	W	1
10	RMG 8 T channel C2	Threshold 065535	2 byte 7,001	С	R	W	-
	RMG 8 T channel C2	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	С	R	W	-
	RMG 8 T channel C2	Threshold as percent	1 byte 5,001	С	R	W	-
	RMG 8 T channel C2	Logic input in OR gate	1 bit 1,001	С	R	W	-
11	RMG 8 T channel C2	Logic input in AND gate	1 bit 1,001	С	R	W	-
	RMG 8 T channel C2	Logic input in XOR gate	1 bit 1,001	С	R	W	-
12	RMG 8 T channel C2	Lock	1 bit 1,003	С	R	W	-
13	RMG 8 T channel C2	Call up/save scenes	1 byte 18,001	С	R	W	Т
14	RMG 8 T channel C2	Enable scenes = 1	1 bit 1,003	С	R	W	1
17	RMG 8 T channel C2	Lock scenes = 1	1 bit 1,003	С	R	W	-
15	RMG 8 T channel C2	Feedback On/Off	1 bit 1,001	С	R	-	T
16	RMG 8 T channel C2	Operating hours feedback	2 byte 7,001	С	R	W	Т
10	RMG 8 T channel C2	Time to next service	2 byte 7,001	С	R	W	T
17	RMG 8 T channel C2	Service required	1 bit 1,001	С	R	-	T
	RMG 8 T channel C2	Reset operating hours	1 bit 1,001	С	R	W	-
18	RMG 8 T channel C2	Reset service	1 bit 1,001	С	R	W	-
	RMG 8 T channel C2	Switching with priority	2 bit 2,001	С	R	W	-
	RMG 8 T channel C3	Switch object	1 bit 1,001	С	R	W	-
	RMG 8 T channel C3	Threshold 0255	1 byte 5,010	С	R	W	-
20	RMG 8 T channel C3	Threshold 065535	2 byte 7,001	С	R	W	-
	RMG 8 T channel C3	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	С	R	W	-
	RMG 8 T channel C3	Threshold as percent	1 byte 5,001	С	R	W	-



No.	Object name	Function	Type			ags	
140.	Object name	Tunction	DPT	C	R	W	T
	RMG 8 T channel C3	Logic input in OR gate	1 bit 1,001	С	R	W	-
21	RMG 8 T channel C3	Logic input in AND gate	1 bit 1,001	С	R	W	-
	RMG 8 T channel C3	Logic input in XOR gate	1 bit 1,001	С	R	W	-
22	RMG 8 T channel C3	Lock	1 bit 1,003	С	R	W	-
23	RMG 8 T channel C3	Call up/save scenes	1 byte 18,001	С	R	W	Т
2.4	RMG 8 T channel C3	Enable scenes = 1	1 bit 1,003	С	R	W	-
24	RMG 8 T channel C3	Lock scenes = 1	1 bit 1,003	С	R	W	-
25	RMG 8 T channel C3	Feedback On/Off	1 bit 1,001	С	R	-	Т
26	RMG 8 T channel C3	Operating hours feedback	2 byte 7,001	С	R	W	Т
26	RMG 8 T channel C3	Time to next service	2 byte 7,001	С	R	W	Т
27	RMG 8 T channel C3	Service required	1 bit 1,001	С	R	-	Т
	RMG 8 T channel C3	Reset operating hours	1 bit 1,001	С	R	W	-
28	RMG 8 T channel C3	Reset service	1 bit 1,001	С	R	W	-
	RMG 8 T channel C3	Switching with priority	2 bit 2,001	С	R	W	-
	RMG 8 T channel C4	Switch object	1 bit 1,001	С	R	W	-
	RMG 8 T channel C4	Threshold 0255	1 byte 5,010	С	R	W	-
30	RMG 8 T channel C4	Threshold 065535	2 byte 7,001	С	R	W	-
	RMG 8 T channel C4	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	С	R	W	-
	RMG 8 T channel C4	Threshold as percent	1 byte 5,001	С	R	W	-
	RMG 8 T channel C4	Logic input in OR gate	1 bit 1,001	С	R	W	-
31	RMG 8 T channel C4	Logic input in AND gate	1 bit 1,001	С	R	W	-
	RMG 8 T channel C4	Logic input in XOR gate	1 bit 1,001	С	R	W	-
32	RMG 8 T channel C4	Lock	1 bit 1,003	С	R	W	-



No.	Object name	Function	Type		Fla	ags	
110.	Object name	Tunction	DPT	C	R	W	T
33	RMG 8 T channel C4	Call up/save scenes	1 byte 18,001	✓	R	W	T
2.4	RMG 8 T channel C4	Enable scenes = 1	1 bit 1,003	С	R	W	-
34	RMG 8 T channel C4	Lock scenes = 1	1 bit 1,003	С	R	W	-
35	RMG 8 T channel C4	Feedback On/Off	1 bit 1,001	С	R	-	Т
26	RMG 8 T channel C4	Operating hours feedback	2 byte 7,001	С	R	W	Т
36	RMG 8 T channel C4	Time to next service	2 byte 7,001	С	R	W	Т
37	RMG 8 T channel C4	Service required	1 bit 1,001	С	R	-	Т
	RMG 8 T channel C4	Reset operating hours	1 bit 1,001	С	R	W	-
38	RMG 8 T channel C4	Reset service	1 bit 1,001	С	R	W	-
	RMG 8 T channel C4	Switching with priority	2 bit 2,001	С	R	W	-
	RMG 8 T channel C5	Switch object	1 bit 1,001	С	R	W	-
	RMG 8 T channel C5	Threshold 0255	1 byte 5,010	С	R	W	-
40	RMG 8 T channel C5	Threshold 065535	2 byte 7,001	С	R	W	-
	RMG 8 T channel C5	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	С	R	W	-
	RMG 8 T channel C5	Threshold as percent	1 byte 5,001	С	R	W	-
	RMG 8 T channel C5	Logic input in OR gate	1 bit 1,001	С	R	W	-
41	RMG 8 T channel C5	Logic input in AND gate	1 bit 1,001	С	R	W	-
	RMG 8 T channel C5	Logic input in XOR gate	1 bit 1,001	С	R	W	-
42	RMG 8 T channel C5	Lock	1 bit 1,003	С	R	W	_
43	RMG 8 T channel C5	Call up/save scenes	1 byte 18,001	С	R	W	Т
44	RMG 8 T channel C5	Enable scenes = 1	1 bit 1,003	С	R	W	-
44	RMG 8 T channel C5	Lock scenes = 1	1 bit 1,003	С	R	W	-
45	RMG 8 T channel C5	Feedback On/Off	1 bit 1,001	С	R	-	Т



No.	Object name	Type					
NO.	Object name	Function	DPT	С	R	W	T
46	RMG 8 T channel C5	Operating hours feedback	2 byte 7,001	С	R	W	T
40	RMG 8 T channel C5	Time to next service	2 byte 7,001	С	R	W	T
47	RMG 8 T channel C5	Service required	1 bit 1,001	С	R	-	Т
	RMG 8 T channel C5	Reset operating hours	1 bit 1,001	С	R	W	-
48	RMG 8 T channel C5	Reset service	1 bit 1,001	С	R	W	ı
	RMG 8 T channel C5	Switching with priority	2 bit 2,001	С	R	W	ı
	RMG 8 T channel C6	Switch object	1 bit 1,001	С	R	W	ı
	RMG 8 T channel C6	Threshold 0255	1 byte 5,010	С	R	W	1
50	RMG 8 T channel C6	Threshold 065535	2 byte 7,001	С	R	W	-
	RMG 8 T channel C6	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	С	R	W	-
	RMG 8 T channel C6	Threshold as percent	1 byte 5,001	С	R	W	-
	RMG 8 T channel C6	Logic input in OR gate	1 bit 1,001	С	R	W	-
51	RMG 8 T channel C6	Logic input in AND gate	1 bit 1,001	С	R	W	ı
	RMG 8 T channel C6	Logic input in XOR gate	1 bit 1,001	С	R	W	-
52	RMG 8 T channel C6	Lock	1 bit 1,003	С	R	W	-
53	RMG 8 T channel C6	Call up/save scenes	1 byte 18,001	С	R	W	Т
54	RMG 8 T channel C6	Enable scenes = 1	1 bit 1,003	С	R	W	-
J4	RMG 8 T channel C6	Lock scenes = 1	1 bit 1,003	С	R	W	_
55	RMG 8 T channel C6	Feedback On/Off	1 bit 1,001	С	R	-	Т
56	RMG 8 T channel C6	Operating hours feedback	2 byte 7,001	С	R	W	Т
30	RMG 8 T channel C6	Time to next service	2 byte 7,001	С	R	W	Т
57	RMG 8 T channel C6	Service required	1 bit 1,001	С	R	-	Т



No.	Object name	Function	Type			ags	
110.		Tunction	DPT	C	R	W	T
	RMG 8 T channel C6	Reset operating hours	1 bit 1,001	С	R	W	-
58	RMG 8 T channel C6	Reset service	1 bit 1,001	С	R	W	-
	RMG 8 T channel C6	Switching with priority	2 bit 2,001	С	R	W	-
	RMG 8 T channel C7	Switch object	1 bit 1,001	С	R	W	-
	RMG 8 T channel C7	Threshold 0255	1 byte 5,010	С	R	W	-
60	RMG 8 T channel C7	Threshold 065535	2 byte 7,001	С	R	W	-
	RMG 8 T channel C7	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	С	R	W	-
	RMG 8 T channel C7	Threshold as percent	1 byte 5,001	С	R	W	_
	RMG 8 T channel C7	Logic input in OR gate	1 bit 1,001	С	R	W	-
61	RMG 8 T channel C7	Logic input in AND gate	1 bit 1,001	С	R	W	_
	RMG 8 T channel C7	Logic input in XOR gate	1 bit 1,001	С	R	W	_
62	RMG 8 T channel C7	Lock	1 bit 1,003	С	R	W	-
63	RMG 8 T channel C7	Call up/save scenes	1 byte 18,001	С	R	W	Т
C 4	RMG 8 T channel C7	Enable scenes = 1	1 bit 1,003	С	R	W	-
64	RMG 8 T channel C7	Lock scenes = 1	1 bit 1,003	С	R	W	-
65	RMG 8 T channel C7	Feedback On/Off	1 bit 1,001	С	R	-	Т
	RMG 8 T channel C7	Operating hours feedback	2 byte 7,001	С	R	W	Т
66	RMG 8 T channel C7	Time to next service	2 byte 7,001	С	R	W	Т
67	RMG 8 T channel C7	Service required	1 bit 1,001	С	R	-	Т
	RMG 8 T channel C7	Reset operating hours	1 bit 1,001	С	R	W	-
68	RMG 8 T channel C7	Reset service	1 bit 1,001	С	R	W	-
	RMG 8 T channel C7	Switching with priority	2 bit 2,001	С	R	W	-



No.	Object name	Function	Type		Fla			
110.	Object name	Tunction	DPT	C	R	W	T	
	RMG 8 T channel C8	Switch object	1 bit 1,001	С	R	W	-	
	RMG 8 T channel C8	Threshold 0255	1 byte 5,010	С	R	W	1	
69	RMG 8 T channel C8	Threshold 065535	2 byte 7,001	С	R	W	-	
	RMG 8 T channel C8	Threshold EIS 5 (DPT9.xxx)	2 byte 9.xxx	С	R	W	-	
	RMG 8 T channel C8	Threshold as percent	1 byte 5,001	С	R	W	-	
	RMG 8 T channel C8	Logic input in OR gate	1 bit 1,001	С	R	W	-	
70	RMG 8 T channel C8	Logic input in AND gate	1 bit 1,001	С	R	W	-	
	RMG 8 T channel C8	Logic input in XOR gate	1 bit 1,001	С	R	W	-	
71	RMG 8 T channel C8	Lock	1 bit 1,003	С	R	W	-	
72	RMG 8 T channel C8	Call up/save scenes	1 byte 18,001	С	R	W	T	
73	RMG 8 T channel C8	Enable scenes = 1	1 bit 1,003	С	R	W	-	
73	RMG 8 T channel C8	Lock scenes = 1	1 bit 1,003	С	R	W	-	
74	RMG 8 T channel C8	Feedback On/Off	1 bit 1,001	С	R	-	Т	
75	RMG 8 T channel C8	Operating hours feedback	2 byte 7,001	С	R	W	T	
13	RMG 8 T channel C8	Time to next service	2 byte 7,001	С	R	W	T	
76	RMG 8 T channel C8	Service required	1 bit 1,001	С	R	-	T	
	RMG 8 T channel C8	Reset operating hours	1 bit 1,001	С	R	W	-	
77	RMG 8 T channel C8	Reset service	1 bit 1,001	С	R	W	-	
<u> </u>	RMG 8 T channel C8	Switching with priority	2 bit 2,001	С	R	W	-	
80 237	Extension modules 1 and 2: See below, overview of channel related objects							



Table 5: Overview of channel-related objects, switch actuator channels

		E	BASIC MODU	JLE: RMG 8	Т			
C1	C2	C3	C4	C5	C6	C7	C8	
0	10	20	30	40	50	60	69	
1	11	21	31	41	51	61	70	
2	12	22	32	42	52	62	71	
3	13	23	33	43	53	63	72	
4	14	24	34	44	54	64	73	
5	15	25	35	45	55	65	74	
6	16	26	36	46	56	66	75	
7	17	27	37	47	57	67	76	
8	18	28	38	48	58	68	77	
1st EXTENSION: RME 8 T								
C1	C2	C3	C4	C5	C6	C7	C8	
80	90	100	110	120	130	140	149	
81	91	101	111	121	131	141	150	
82	92	102	112	122	132	142	151	
83	93	103	113	123	133	143	152	
84	94	104	114	124	134	144	153	
85	95	105	115	125	135	145	154	
86	96	106	116	126	136	146	155	
87	97	107	117	127	137	147	156	
88	98	108	118	128	138	148	157	
		2	2nd EXTENS	ION: RME 8	Γ			
C1	C2	C3	C4	C5	C6	C7	C8	
160	170	180	190	200	210	220	229	
161	171	181	191	201	211	221	230	
162	172	182	192	202	212	222	231	
163	173	183	193	203	213	223	232	
164	174	184	194	204	214	224	233	
165	175	185	195	205	215	225	234	
166	176	186	196	206	216	226	235	
167	177	187	197	207	217	227	236	
168	178	188	198	208	218	228	237	



5.2.2 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 6:

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



No.		Type			Flags				
NO.	Object name	Function	DPT	С	R	W	T		
10	RMG 8 T channel C2	UP/DOWN	1 bit 1.008	C	R	W	_		
11	RMG 8 T channel C2	Step/stop	1 bit 1.010	С	R	W	_		
12	RMG 8 T channel C2	% Height	1 byte 5.001	С	R	W			
13	RMG 8 T channel C2	% Slat	1 byte 5.001	С	R	W	_		
14	RMG 8 T channel C2	Lock comfort/automatic	1 bit				_		
	RMG 8 T channel C2	1 = Lock	1.003 1 bit	C	R R	W	-		
15	RMG 8 T channel C2	1 = Release	1.003	C	R	W	-		
16	RMG 8 T channel C2	Call up/save scenes	1 byte				-		
	RMG 8 T channel C2	Enable scenes = 1	18.001	C	R	W	-		
17	RMG 8 T channel C2	Lock scenes = 1	1 bit 1.003	C	R	W	-		
			2 bit	C	R	W	-		
18	RMG 8 T channel C2	Priority on safety	2.003	С	R	W	-		
50	RMG 8 T channel C2	Position A	1 bit 1.003	C	R	W	_		
51	RMG 8 T channel C2	Position B	1 bit 1.003	С	R	W	_		
52	RMG 8 T channel C2	Position C	1 bit 1.003	С	R	W	_		
		Height feedback %	1 byte 5.001	С	R	-	Т		
53	RMG 8 T channel C2	Height feedback 1 bit	1 bit 1.009	С	R	-	Т		
54	RMG 8 T channel C2	Slat feedback %	1 byte 5.001	С	R	-	Т		
20	RMG 8 T channel C3	UP/DOWN	1 bit 1.008	С	R	w	_		
21	RMG 8 T channel C3	Step/stop	1 bit 1.010	С	R	W	_		
22	RMG 8 T channel C3	% Height	1 byte 5.001	С	R	W	_		
23	RMG 8 T channel C3	% Slat	1 byte 5.001	С	R	W	_		
24	RMG 8 T channel C3	Lock comfort/automatic	1 bit 1.003	С	R	W	_		
25	RMG 8 T channel C3	1 = Lock	1 bit	C	R	W	_		
25	RMG 8 T channel C3	1 = Release	1.003	С	R	W	-		
26	RMG 8 T channel C3	Call up/save scenes	1 byte 18.001	С	R	W	_		



Continua		Eurotion	Туре		Flags			
No.	Object name	Function	DPT	С	R	W	T	
27	RMG 8 T channel C3	Lock scenes = 1	1 bit	C	R	W	-	
	RMG 8 T channel C3	Enable scenes = 1	1.003	C	R	W	-	
28	RMG 8 T channel C3	Priority on safety	2 bit 2.003	С	R	W	-	
60	RMG 8 T channel C3	Position A	1 bit 1.003	С	R	W	1	
61	RMG 8 T channel C3	Position B	1 bit 1.003	С	R	W	-	
62	RMG 8 T channel C3	Position C	1 bit 1.003	С	R	W	-	
		Height feedback %	1 byte 5.001	С	R	-	Т	
63	RMG 8 T channel C3	Height feedback 1 bit	1 bit 1.009	С	R	-	Т	
64	RMG 8 T channel C3	Slat feedback %	1 byte 5.001	С	R	-	Т	
30	RMG 8 T channel C4	UP/DOWN	1 bit 1.008	С	R	W	-	
31	RMG 8 T channel C4	Step/stop	1 bit 1.010	С	R	W	_	
32	RMG 8 T channel C4	% Height	1 byte 5.001	С	R	W	_	
33	RMG 8 T channel C4	% Slat	1 byte 5.001	С	R	W	_	
34	RMG 8 T channel C4	Lock comfort/automatic	1 bit 1.003	С	R	W	_	
	RMG 8 T channel C4	1 = Release	1 bit	C	R	W	_	
35	RMG 8 T channel C4	1 = Lock	1.003	C	R	W	_	
36	RMG 8 T channel C4	Call up/save scenes	1 byte 18.001	С	R	W	_	
	RMG 8 T channel C4	Lock scenes = 1	1 bit	C	R	W	_	
37	RMG 8 T channel C4	Enable scenes = 1	1.003	C	R	W	_	
38	RMG 8 T channel C4	Priority on safety	2 bit 2.003	С	R	W	_	
70	RMG 8 T channel C4	Position A	1 bit 1.003	С	R	W	_	
71	RMG 8 T channel C4	Position B	1 bit		R	W	-	
72	RMG 8 T channel C4	Position C	1.003 1 bit	С			-	
		Height feedback %	1.003 1 byte	C C	R R	-	<u>-</u> Т	
73	RMG 8 T channel C4	Height feedback 1 bit	5.001 1 bit	С	R	-	T	
74	RMG 8 T channel C4	Slat feedback %	1.009 1 byte	С	R	-	Т	
80	Fytension modules 1 as	nd 2: See below, overview of cha	nnel-related o		l rte			
237	Latension modules 1 ai	na 2. See below, overview of clia	imici-i cialcu (,vjc(us.			



Table 7: Overview of channel-related objects, blinds channels

BASI	C MODU	JLE: RM	[G 8 T	1st E	1st EXTENSION: RME 8 T				2nd EXTENSION: RME 8 T				
C1	C2	C3	C4	C1	C2	C3	C4	C1	C2	C3	C4		
0	10	20	30	80	90	100	110	160	170	180	190		
1	11	21	31	81	91	101	111	161	171	181	191		
2	12	22	32	82	92	102	112	162	172	182	192		
3	13	23	33	83	93	103	113	163	173	183	193		
4	14	24	34	84	94	104	114	164	174	184	194		
5	15	25	35	85	95	105	115	165	175	185	195		
6	16	26	36	86	96	106	116	166	176	186	196		
7	17	27	37	87	97	107	117	167	177	187	197		
8	18	28	38	88	98	108	118	168	178	188	198		
40	50	60	69	120	130	140	149	200	210	220	229		
41	51	61	70	121	131	141	150	201	211	221	230		
42	52	62	71	122	132	142	151	202	212	222	231		
43	53	63	72	123	133	143	152	203	213	223	232		
44	54	64	73	124	134	144	153	204	214	224	233		



5.2.3 Common objects:

These objects are partly used by the basic module and the two extension modules.

Table 8:

No.	Object name	Function	Туре		Fla	ags	
110.		Punction	DPT	C	R	W	T
78	RMG 8 T		1 bit				
158	EM1 RME 8 T	Manual	1.001	✓	✓	✓	✓
238	EM2 RME 8 T		1.001				
79	RMG 8 T*		4 Byte				
159	EM1 RME 8 T*	Collective feedback	27.001	✓	✓		✓
239	EM2 RME 8 T*						
240	Central continuous ON	RMG4I/8x, DMG/E2x, SME2S	1 bit 1.001	✓	✓	✓	✓
241	Central continuous OFF	RMG4I/8x, DMG/E2x, SME2S	1 bit 1.001	✓	✓	✓	✓
242	Central switching	RMG4I/8x, DMG/E2x, SME2S	1 bit 1.001	✓	✓	✓	✓
243	Call up/save central scenes	RMG4I/8x, DMG/E2x, JMG/E4x, SME2S	1 byte 18.001	✓	✓	✓	✓
244	Central safety 1	JMG/E4T, RMG/E8T (Wind), JME4S	1 bit 1.001	✓	✓	✓	
245	Central safety 2	JMG/E4T, RMG/E8T (Wind), JME4S	1 bit 1.001	✓	✓	✓	
246	Central safety 3	JMG/E4T, RMG/E8T (Wind), JME4S	1 bit 1.001	✓	✓	✓	
247	Central up/down	JMG/E 4 T, RMG/E 8 T, JME 4 S	1 bit 1.008	✓	✓	✓	
248	Central safety rain	JMG/E 4 T, RMG/E 8 T	1 bit 1.001	✓	✓	✓	
249	Central safety frost	JMG/E 4 T, RMG/E 8 T	1 bit 1.001	✓	✓	✓	
250	Version of bus coupling unit	transmit	14 byte 16.001	✓	✓		✓
251	Version of basic module	transmit	14 byte 16.001	✓	✓		✓
252	Version of 1st extension module	transmit	14 byte 16.001	✓	✓		✓
253	Version of 2nd extension module	transmit	14 byte 16.001	✓	✓		✓

^{*}Only for the switch actuator channels.



5.2.4 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 9:

Parameters	Parameters				
Activation of function via	Type of threshold object	function via			
Switch object		1-bit telegram			
	Object type: per cent (DPT 5.001)	Exceeding per cent value			
Expending 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 "Lock"

Locks the channel function.

Responses to setting and cancelling the lock 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** "Lock scenes = 1, Enable scenes = 1"

Locks 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 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 hour 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 hour 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 hour counter function has been activated (*configuration options* parameter page).

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

^{*} Depending on configuration.

^{**} or set by logic, central objects or scene



5.2.5 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 disabled by the comfort automatic object (see below).

• **Object 3** "% *Slat*"

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

• **Object 4** "Lock Comfort/Automatic"

A "1" on this object locks 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 "Lock/Release"

Locks the channel function.

Responses to setting and cancelling the lock 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 restored 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 "Lock scenes/Release scenes"

Locks 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	
2	UP
3	DOWN

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



• 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 %.

For devices manufactured as of August 2016: Parameters can also be set as a 1-bit telegram DPT1.009. *See parameter: Format of height feedback.*

• **Object 44** "Slat feedback %"

Current slat position feedback in %.



5.2.6 Description of common objects

• Objects 78, 158, 238 "Manual"

Only available for devices in the MIX2 series (order number 493...)

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* can be configured on the *General* parameter page.

• **Objects 79, 159, 239** ,,RMG 8 T, EM1 RME 8 T, EM2 RME 8 T collective feedback"

Only applies to switch actuator channels.

Sends the current switching status of the channels in a module as DPT 27.001.

• **Object 240** "Central permanent ON"

Central switch-on function.

Enables simultaneous switch on of all channels (basic and extension modules) with a 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.

Works on the following devices:

RMG 8 S/RME 8 S, RMG 4 I/RME 4 I, RMG 8 T*/RME 8 T*, RME 4 S/C-load, DMG 2 T, DME 2 S/T, SME 2 S.

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^{*} Only applies to switch actuator channels



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

Central switch-off function.

Enables simultaneous switch off of all channels (basic and extension modules) with a 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.

Works on the following devices:

RMG 8 S/RME 8 S, RMG 4 I/RME 4 I, RMG 8 T*/RME 8 T*, RME 4 S/C-load, DMG 2 T, DME 2 S/T, SME 2 S.

• Object 242 "Central switching"

Central switch function.

Enables simultaneous switch on or off of all channels (basic and extension modules) with a 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.

Works on the following devices:

RMG 8 S/RME 8 S, RMG 4 I/RME 4 I, RMG 8 T*/RME 8 T*, RME 4 S/C-load, DMG 2 T, DME 2 S/T, SME 2 S.

• Object 243 "Call up/save central scenes"

Central object for using scenes.

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

Works on the following devices:

RMG 4 I/RME 4 I, RMG 8 S/RME 8 S, RMG 8 T/RME 8 T, DMG 2 T/DME 2 T, JMG 4 T/JME 4 T, RME 4 S/C-load, DME 2 S, SME 2 S, JME 4 S

See appendix: Scenes.

* Only applies to switch actuator channels



• 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.

Notes:

- 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.

Works on the following devices: JMG 4 T, JME 4 T, JME 4 S, RMG 8 T*, RME 8 T*.

• 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 push button

0 = raise

1 = lower

Works on the following devices: JMG 4 T, JME 4 T, JME 4 S, RMG 8 T*, RME 8 T*.

• **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.

Works on the following devices: JMG 4 T, JME 4 T, JME 4 S, RMG 8 T*, RME 8 T*.

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^{*}Only applies to blinds channels.



• **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.

Works on the following devices: JMG 4 T, JME 4 T, JME 4 S, RMG 8 T*, RME 8 T*.

• 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: A16 H03 V014

- ETS application version 1.6
- Hardware version \$03
- Firmware version \$14

*Only applies to blinds channels.

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• **Object 251** "Version of basic module"

For diagnostic purposes only.

Only for basic modules in the MIX 2 series (order number 493...).

Sends the software version (firmware) of the basic module 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).		
yy Hardware version 0099		
ZZZ	Firmware version 000999	

EXAMPLE: M11 H25 V025

- Module $$11 = RMG \ 8 \ T$
- Hardware version V25
- Firmware version V25

Possible module codes (as of 04/2014)

Module	Code
Module or mains voltage are unavailable.	\$00
RMG 8 S	\$11
RMG 4 I	\$12
DMG 2 T	\$13
JMG 4 T/JMG 4 T 24V	\$14
HMG 6 T	\$15
RMG 8 T	\$17

• **Object 252** "Version of 1st extension module"

Telegram format: See above, object 251

Possible module codes (as of 04/2014)

Module	Code
Module or mains voltage are unavailable.	\$00
RME 8 S	\$11
RME 4 I	\$12
DME 2 T	\$13
JME 4 T/JME 4 T 24V	\$14
HME 6 T	\$15
RME 8 T	\$17



• Object 253 "Version of 2nd extension module"

See above, object 252



5.3 Parameters

5.3.1 Common parameter pages

Table 10

Function	Description	
General	Selection of module and central parameters.	
BASIC MODULE:	Channel functions: switch actuator/blinds actuator.	
RMG 8 T	General parameters for the basic module.	

5.3.2 Parameter pages for the switch actuator

Table 11

Function	Description	
RMG 8 T channel Cx	Characteristics of channel and activation of additional functions	
configuration options	(scenes, links, etc.).	
Contact	Type of contact and status after download, bus failure etc.	
characteristics		
Threshold	Settings for triggering channel function through exceeding threshold.	
Block function	Type of lock telegram and response to locking.	
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.	

5.3.3 Parameter pages for the blinds actuator

RMG 8 T channel Cx	Characteristics of channel and activation of additional functions	
configuration options	(scenes, sun protection, lock, etc.).	
Drive settings	Direction of movement, runtimes, etc.	
Block function	Type of lock telegram and response to locking.	
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 failure and restoration of bus and mains power.	
restoration	Denavious during failure and restoration of our and mains power.	

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5.3.4 Parameter description for common parameters

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

5.3.4.1 The "General" parameter page

Designation	Values	Description
Type of basic module	Select device	Selection of available basic module
	<i>RMG 8 S.</i> .	(MIX2 series only)
	<i>RMG 8 T.</i> .	
	<i>RMG 4 I.</i> .	
	DMG 2 T	
	JMG 4 T/JMG 4 T 24V	
	HMG 6 T	
Type of 1st extension	not available/inactive	Selection of 1st extension module, if
module	<i>RME 8 S.</i> .	available.
	<i>RME 8 T.</i> .	(MIX or MIX2 series)
	<i>RME 4 I.</i> .	
	<i>DME 2 T.</i> .	
	<i>JME 4 T/JME 4 T 24V.</i> .	
	<i>НМЕ 6 Т.</i> .	
	RME 4 S/RME 4 C-load	
	<i>DME 2/SME 2</i>	
	<i>BME 6</i>	
	<i>JME 4 S.</i> .	
	<i>HME 4.</i> .	
Type of 2nd extension	not available/inactive	Selection of 2nd extension module, if
module	<i>RME</i> 8 <i>S.</i>	
	<i>RME 8 T.</i> .	(MIX or MIX2 series)
	<i>RME 4 I.</i> .	
	DME 2 T	
	<i>JME 4 T/JME 4 T 24V.</i> .	
	<i>НМЕ 6 Т.</i> .	
	RME 4 S/RME 4 C-load	
	<i>DME 2/SME 2</i>	
	<i>BME 6</i>	
	<i>JME 4 S.</i> .	
	HME 4	
Time for cyclical sending	2 minutes, 3 minutes,	This parameter is used exclusively for
of feedback object	5 minutes, 10 minutes,	MIX series extension modules.
(MIX series, order no.	15 minutes, 20 minutes	· · · · · · · · · · · · · · · · · · ·
491)	30 minutes, 45 minutes	RME 4 S/C-load, and HME 4)
	60 minutes	



Designation	Values	Description
Function of manual	applies for 24 hours or until	Determines how long the device works
button (MIX2 series,	reset via object	manually and how this is ended.
order no. 493)	locked	
	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	This parameter is used exclusively for
	via object	MIX2 series devices.
	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	unlocked	The channels can be operated via the
channels		buttons on the device.
(MIX2 series, order no.	locked	No manual operation, the buttons on the
493)		device are locked.



5.3.5 Parameter description for the switch actuator

5.3.5.1 The "RMG 8 T basic module" parameter page

Designation	Values	Description
Sending collective feedback	no	No collective feedback, object is unavailable (obj. 79, 159, 239).
	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
Relay switch delay		This parameter sets the minimum delay between switching on two 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).
	None	There is no added delay.
	60 ms 100 ms 200 ms	When a relay switches on, the next one 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 RMG 8 T and 60 ms: = (8 channels − 1) * 60 ms = 420 ms → The last channel switches 420 ms after the first. The same applies to the first or second extension module.



5.3.5.2 The "RMG 8 T channel Cx: configuration options" parameter page

Table 12

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	_
		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?
Activate scenes	no	Should scenes be used:
Participation in central		Central objects are not taken into
objects	no	account.
Objects		account.
	at Central switching, Permanent	Which central objects are to be taken
	On, Permanent OFF	into account?
	only in central continuous ON	
	only in central continuous OFF	Central objects enable the simultaneous
	only in central switching	switching on and off of several channels
	only in central switching and	with one single object.
	continuous ON	
	only in central switching and	
	continuous 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?



5.3.5.3 The "Contact characteristics" parameter page

Table 13

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
ana bus janure	OFF	the relay remains switched off.
	OFF	the relay remains switched off.
	ON	the relay switches on.
		Total s with the second state of the second
	unchanged	the relay remains in the same state as
	3	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.
		describes as well as to describe a second
	Same as before failure	the relay remains in the same state as
		before.



5.3.5.4 The "On/Off delay" parameter page

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

Table 14

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.

5.3.5.5 The "Pulse function.." parameter page

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

Table 15

Designation	Values Description		
hours (03)	03 Input of desired pulse duration in hour		
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 any		
(with 0 on switch object)		via a 0-telegram.	
	no	The pulse cannot be ended early	

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5.3.5.6 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 16

Designation	Values	Description
Staircase light time (min. 1	1 s)	
hours (03)	0 3	Input of desired staircase light time in
		hours.
minutes (060)	0 60	1
		minutes.
seconds (0.255)		Input of desired staircase light time in
	Default value = 1	
The maximum sum of	140	determines how long the staircase light
pulses 140		time can be extended by pressing the
D		button again.
Duration of	0	8
1st forewarning in s (060)		the staircase light time is completed.
	160	Once the staircase light time is
	Default value = 10	
		and then stay on for the duration of the
		forewarning
Duration of	0	
2nd forewarning in s		The light switches off at the end of the
(060)		1st forewarning.
		Second forewarning:
	Default value = 10	
		the light should flash briefly and then
		stay on for the duration of the 2nd
		forewarning. The light switches off when this time is
		The light switches off when this time is
		completed.

Example of forewarning function:

Example of forewarming function.					
Staircase light time	Flashin	1st forewarning	ппаэнн	2nd forewarning	OFF



5.3.5.7 The "Flashing.." parameter page

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

Table 17

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	l & P'
minutes (060)	060	hours. 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.
	2 x	
	3 x 4 x	
	5x	
	7x	
	10 x	
	15 x	
	20 x	
	30 x	
	50 x	



5.3.5.8 The "Threshold" parameter page

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

Table 18

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,	
	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.
	As switch object = 0	NO contact: the relay switches off if
		threshold is exceeded.
		Opening contact: The relay switches on
		if 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%	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 (as %)	199 %	
	Default value = 10%	switching after small fluctuations in
		readings.



Designation	Values	Description	
]	Parameter for threshold object Counter 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	1 1	
	Default value = 5	switching after small fluctuations in	
		readings.	
	arameter 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	. CO ₂ , brightness)	
Threshold		Desired threshold.	
Format (-)0.0099999	Default value = 20	1	
		$switch\ object = 1$:	
		Switches on when:	
		Object value > threshold	
		Switches off when:	
		Object value = threshold - hysteresis	
Hysteresis	0.009999	J 1	
0.009999	$Default\ value=1$	switching after small fluctuations in	
		readings.	



5.3.5.9 The "Block function" parameter page

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

Table 19

Values	Description
Lock with ON telegram	0 = Enable
	1 = Lock
Lock with OFF telegram	0 = Lock
Ç	1 = Enable
	Note: The lock is always deactivated
	after reset.
OFF	Switch off
ON	Switch on
unchanged	No response
OFF	Switch off
ON	Switch on
Unchanged	No response
S	•
update	Restore normal operation and switch
1	relay accordingly.
	Lock with ON telegram Lock with OFF telegram OFF ON unchanged OFF ON Unchanged



5.3.5.10 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 20

Designation	Values	Description
Lock telegram for scenes	Lock with ON telegram	0 = Enable
		1 = Lock
	Lock with OFF telegram	
		1 = Enable
		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
	Onchungea after downtoda	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?
Channel reacts to	No scene number	First of the 8 possible scene numbers the
	Scene number 1	channel is to react to.
	Scene number 63	
Status after download		New switching status that the selected
	On	scene number is to be allocated to.
		Only mossible if the account of the second
		Only possible if the scene statuses are to be overwritten after download.
		be overwritten after download.
Permit teach in	No	Scenes can only be called up.
	110	arrange of same up.
	Yes	The user can both call up and teach in or
		amend scenes.



Continuation:

Designation	Values	Description
Channel reacts to	No scene number	•
	Scene number1	second of the o possible scene numbers
	Scene number 2	
	Seene number 2	
	Scene number 63	
Status after download	Off	See above.
	Ön	
Permit teach in	No	See above.
	Yes	
Channel reacts to	No scene number	Third of the 8 possible scene numbers
	Scene number1	_
	Scene number 3	
	Scene number 63	
Status after download	Off	See above.
	On	
Permit teach in	No	See above.
	Yes	
Channel reacts to	No scene number	Fourth of the 8 possible scene numbers
	Scene number1	
	Scene number 4	
	Scene number 63	
Status after download	Off	See above.
	On	
Permit teach in	No	See above.
	Yes	
Channel reacts to		Fifth of the 8 possible scene numbers
	Scene number1	
	Scene number 5	
	Scene number 63	~ .
Status after download	Off	See above.
	<u>On</u>	
Permit teach in	No	See above.
	Yes	
Channel reacts to	No scene number	Sixth of the 8 possible scene numbers
	Scene number1	
	Scene number 6	
	 G 1 63	
	Scene number 63	



Designation	Values	Description
Status after download	Off	See above.
	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	No scene number	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	



5.3.5.11 The "Feedback" parameter page

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

Table 21

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	



5.3.5.12 The "Hour counter and service" parameter page

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

Table 22

Designation	Values	Description
Type of hour counter	Hour counter	Forward counter for duty cycle of the channel.
	counter for time period before next service	Backward counter for duty cycle of the 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)	2 ejanni ranne 10	Example:
		10 = Send each time the meter reading
		increases by another 10 hours.
Report operating hours	No	Send at regular intervals?
cyclically	ves	8
Time for cyclical	2 minutes, 3 minutes,	At what interval?
transmission	5 minutes, 10 minutes,	
	15 minutes, 20 minutes,	
	30 minutes, 45 minutes	
	60 minutes	
	counter for time period before	next service
Service interval	02000	Desired timescale between two services.
(02000, x10 h)	Default value = 100	
		$10 = 10 \times 10 \text{ h}$
		= 100 hours
Reporting of time to		At what interval is the current meter
service when changing	$Default\ value=10$	
(0100 h, 0 = no report)		Example:
		10 = Send each time the meter reading
		decreases by another 10 hours.
Report time to service	no	0
cyclically	Yes	, E
		→ Object <i>Time to next service</i> .
Report service cyclically	no	1 ,
	Yes	service has expired at regular intervals?
		→ Object Service required.



Continuation:

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	

5.3.5.13 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 23

Designation	Values	Description
Activate link		Selection of logical link with the channel object
	AND link	The <i>Logic input in AND gate</i> 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 <i>Logic input in XOR gate</i> object appears (e.g. object 1).
Disable object affects	No	The disable object only affects the
logic object		channel object (e.g. object 0).
		If required, the logic object can activate
		the channel function despite lock (with
		OR and XOR link).
	ves	The disable object affects the channel
	yea	object and the logic object.
		The channel function is completely
		blocked if the lock is active.



5.3.6 Parameter description for the blinds actuator

5.3.6.1 The "RMG 8 T basic module" parameter page

Designation	Values	Description
Relay switch delay		This parameter sets the minimum delay
		between switching on two 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	When a relay has switched on, the next
	100 ms	
	200 ms	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:
		RMG 8 T and 60 ms:
		= (4 channels - 1) * 60 ms = 180 ms
		→ Last channel switches with a delay of 180 ms.
		The same applies to the first or second extension module.
		CATCHSTOIL HIOUUIC.



5.3.6.2 The "RMG 8 T channel Cx: configuration options" parameter page

Table 24

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?
Activate scenes	no Yes	Should scenes be used?
Activate scenes	1es no	Should scelles be used?
Additional functions for de	evices manufactured as of August 2	016
Comfort/Auto locked on		Suppression of the Comfort/Auto
UP/DOWN/STOP		function by manual positioning via On,
command		Off or Stop telegrams.
(for devices as of August	no, only via object	1
2016)	Comfort/Automatic	2016): <i>Comfort/Auto</i> remains active
	·	after manual positioning.
	yes, and via object	1
	Comfort/Automatic OFF	manual positioning and via the object
	·	Comfort/Automatic.
	yes, and after 0.5hrs OFF	The Comfort/Auto function is locked for
	yes, and after 1hr OFF	the set time via manual positioning.
	•••	Once this time has lapsed, Comfort/Auto
	yes, and after 2hrs OFF	is active once again and the drive reacts
		to height telegrams.
	yes, and after 48hrs OFF	The block can be ended at any time via
		the object Comfort / Automatic (=1).
Format of height	%	Standard (as prior to August 2016).
feedback		
(for devices as of August	1 bit	New: The location is sent as a 1-bit
2016)		telegram (DPT1.009).
		0%, open = 0
		> 0%, closed = 1



5.3.6.3 The "Drive settings" parameter page

Table 25

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		Only available when Drive runtime
(s)	5 500	setting = via ETS.
		Enter the measured runtime for
		descending (in seconds).
Runtime adjustment for		Enter difference between runtime when
ascent (s)	-15 +15	
		when descending.
		Correction value = $t_{Up} - t_{Down}$
Step duration of	No steps	Only for roller blinds/awning/general
Step/Stop object	250 ms	
	500 ms	This specifies whether or not it should
	1 s	3
	2 s	1 1
	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.
N. C. C.	2.6	$10 = 10 \times 100 \text{ ms} = 1\text{s}$
No. of steps for a	3 Steps	•
complete turn	4 Steps	•
	7 Steps	divided into (3 to 12).
	12 Steps	



Continuation:

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.
		vent stots will remain open.
	na	No tensioning.
Pause time before		Pause introduced to protect the drive
reversal of direction	1 s	
Teversul of direction	$\frac{1}{2}\frac{s}{s}$	
	$\frac{1}{3}s$	while ascending).
		This setting depends on the information
		supplied by the manufacturer of the
		drive
Automatic execution of	yes	Selection whether or not the slat position
the slat object value	no	(according to the slat object % slat) is to
[%] after the height		be resumed after the height adjustment
object [%]		via the height object % Height.
A	00/	In and a Calman design and the Calman design
Assignment of the 0%	0% corresponds to slat position	
position to the slat objects [%]	on lowering 0% corresponds to slat position	calculations of the slat turn.
objects [76]	on ascending	
Participation in central		Should the drive respond to the central
Up/Down object	yes no	object?
Transmission of feedback	only at change	When should feedback
2. and mission of Jecuouck	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	
	60 minutes	

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5.3.6.4 The "Block function" parameter page

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

Table 26

Designation	Values	Description
Lock telegram	Lock with ON telegram	0 = Enable
		1 = Lock
	Lock with OFF telegram	0 = Lock
		1 = Enable
		Note: The lock is always deactivated
		after reset.
Response when setting	Preset 1	Approach a preset position.
the lock	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	
	unchanged (stopped upon	Do not react. The drive should stop
	operating command)	when a lock command is received
		during a movement.
Response when	Preset 1	Approach a preset position.
cancelling the lock	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	
	7 7/ 7	
	unchanged (stopped upon	Do not react. The drive should stop
	operating command)	when a lock command is received
		during a movement.
	77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	A 1. 1 1
	Update (height/slat)	Approach last received position.



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

Table 27

Designation	Values	Description
Priority of safety objects	1. Wind 2. Rain, 3. Frost	If wind, rain and frost alarm occur
	1. Wind, 2. Frost, 3. Rain	together, the parameters of the object
	1. Rain, 2. Wind, 3. Frost	with the highest priority will be
	1. Rain, 2. Frost, 3. Wind	implemented.
	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	no	No monitoring.
cyclically		After mains failure the safety object will be reset to 0.
		be reset to 0.
	every 10 min	Safety objects that do not receive any
	every 20 min	1
	every 60 min	
	2,219 22	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
		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	Approach an end position.
	Lower end position	
	Update (height/slat)	Approach last received position.
	No response	Do not react.
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	
	Top end position	Approach an end position.
	Lower end position	
	Update (height/slat)	Approach last received position.
	No response	Do not react.
Response after priority on safety	Preset 1	
	Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7 Preset 8 Top end position Lower end position no reaction, unchanged	Approach an end position.



5.3.6.6 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 lock* or when a scene is cancelled.

Table 28

Designation	Values	Description
Preset 1		
Position	0 %, 10 %, 20 % 30 %, 40 %, 50 % 60 %, 70 %, 80 % 90 %, 100 %, no change	1
Slat	0 %, 10 %, 20 % 30 %, 40 %, 50 % 60 %, 70 %, 80 % 90 %, 100 %, no change	
Preset 2		
Position	See above	•
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
		<u>.</u>



5.3.6.7 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 29

Designation	Values	Description
Lock telegram for scenes	Lock with ON telegram	0 = Enable
		1 = Lock
	Lock with OFF telegram	0 = Lock
		1 = Enable
		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	No	Should the device react to the central
scene object	yes	scene object?

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Continuation:

Designation Designation	Values	Description
Response when	v araes	Behaviour when object 6 receives the
=		value 63 (\$3F) and thus the current
unlocking the scene		scene is cancelled.
(with scene value 63)		scene is cancelled.
	D 1	
	Preset 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	Tapprouen un ene posizioni
	No response	Do not react.
	=	
1-4 Do114-1	Update (height/slat)	Approach last received position.
1st scene - Preallocated pr		
Channel reacts to		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.
Lock comfort/automatic	no	During this scene the channel continues
during this scene		to react to height and slat telegrams
	yes	During this scene the channel no longer
	•	reacts to height and slat telegrams.
		The Up/Down function is maintained.
		T. T
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 p	reset 2	
Channel reacts to	No scene number	Second of the 8 possible scene numbers
Chamber reacts to	Scene number 1 (value = 0)	become of the o possible seems numbers
	Scene number 2 (value = 1)	
	Scene number 2 (value = 1)	
	Com a numb a 62 (
C	Scene number 63 (value = 62)	Caralana
Comment for this scene	(Enter name)	See above.
number		
Lock comfort/automatic	no	See above.
during this scene	yes	
Permit teach in	No	See above.
	Yes	
L		1



Continuation:

Designation Values Description	3rd scene - Preallocated preset 3 Channel reacts to No scene number 1 (value = 6) Scene number 3 (value = 6) Scene number 63 (value = 6) Comment for this scene (Enter name	Third of the 8 possible scene numbers
No scene number S	Channel reacts to No scene number Scene number 1 (value = 6) Scene number 3 (value = 6) Scene number 63 (value = 6) Comment for this scene (Enter name	_
Scene number 1 (value = 0) Scene number 3 (value = 2) Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No See above. 4th scene - Preallocated preset 4 Channel reacts to No scene number 1 (value = 0) Scene number 4 (value = 3) Scene number 4 (value = 62) Comment for this scene (Enter name) Lock comfort/automatic during this scene Permit teach in No See above. See above. See above. See above. See above. Fifth of the 8 possible scene numbers See above.	Scene number 1 (value = 6) Scene number 3 (value = 6) Scene number 63 (value = 6) Comment for this scene (Enter name	_
Scene number 3 (value = 2) Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No See above. 4th scene - Preallocated preset 4 Channel reacts to No scene number 1 (value = 0) Scene number 4 (value = 3) Scene number 4 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No See above. See above. Fourth of the 8 possible scene numbers See above. See above. See above. Fifth of the 8 possible scene numbers See above. See above. Fifth of the 8 possible scene numbers See above. See above. See above. See above. See above. Fifth of the 8 possible scene numbers See above.	Scene number 3 (value = 2) Scene number 63 (value = 6) Comment for this scene (Enter name	/)
Scene number 63 (value = 62)	Scene number 63 (value = 62) Comment for this scene (Enter name	'
Scene number 63 (value = 62)	Scene number 63 (value = 62) Comment for this scene (Enter name	
Comment for this scene number Lock comfort/automatic during this scene Permit teach in No See above. Ath scene - Preallocated preset 4 Channel reacts to No scene number I (value = 0) Scene number 4 (value = 3) Scene number 4 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No scene number 5 (value = 0) See above. See above. Fifth of the 8 possible scene numbers See above. See above. Fifth of the 8 possible scene numbers Fifth of the 8 possible scene numbers Scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene (Enter name) No Scene number 5 (value = 62) Comment for this scene (Enter name) No Scene number 63 (value = 62) Comment for this scene (Enter name) No Scene number 63 (value = 62) See above.	Comment for this scene (Enter name	?)
Comment for this scene number Lock comfort/automatic during this scene Permit teach in No See above. Ath scene - Preallocated preset 4 Channel reacts to No scene number I (value = 0) Scene number 4 (value = 3) Scene number 4 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No scene number 5 (value = 0) See above. See above. Fifth of the 8 possible scene numbers See above. See above. Fifth of the 8 possible scene numbers Fifth of the 8 possible scene numbers Scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene (Enter name) No Scene number 5 (value = 62) Comment for this scene (Enter name) No Scene number 63 (value = 62) Comment for this scene (Enter name) No Scene number 63 (value = 62) See above.	Comment for this scene (Enter name	
number Lock comfort/automatic during this scene see above. Permit teach in No See above. 4th scene - Preallocated preset 4 No scene number Fourth of the 8 possible scene numbers Channel reacts to No scene number Fourth of the 8 possible scene numbers Scene number 1 (value = 3) Scene number Fourth of the 8 possible scene numbers Comment for this scene number Scene number Fourth of the 8 possible scene numbers Scene above. Lock comfort/automatic during this scene Permit teach in No See above. Sth scene - Preallocated preset 5 No scene number Fifth of the 8 possible scene numbers Channel reacts to No scene number Fifth of the 8 possible scene numbers Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene number (Enter name) Scene number 63 (value = 62) See above. Comment for this scene number See above.		2)
Lock comfort/automatic during this scene yes	number	e) See above.
during this scene yes Permit teach in No See above. 4th scene - Preallocated preset 4 Channel reacts to No scene number of scene numbe	number	
during this scene yes Permit teach in No See above. 4th scene - Preallocated preset 4 Channel reacts to No scene number of scene numbe	Lock comfort/automatic	a See above.
## Action of the spossible scene number Fourth of the spossible scene numbers	ŭ	
Yes		
Atth scene - Preallocated preset 4 Channel reacts to Scene number 1 (value = 0) Scene number 4 (value = 3) Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No scene number 5 Channel reacts to No scene number 1 (value = 0) Scene number 5 Channel reacts to No scene number Scene number Scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene number Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene number No See above.		
Channel reacts toNo scene numberFourth of the 8 possible scene numbersScene number 1 (value = 0)Scene number 4 (value = 3)Scene number 63 (value = 62)Comment for this scenenumberLock comfort/automatic during this sceneNo scene numberScene number 5Channel reacts toNo scene numberScene number 5 (value = 0)Scene number 5 (value = 4)Scene number 63 (value = 62)Comment for this scene numberLock comfort/automatic during this scenequestion (Enter name)See above. See above.		3
Scene number 1 (value = 0) Scene number 4 (value = 3) Scene number 4 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in Scene number 5 Channel reacts to Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene number 8 (Enter name) See above. Fifth of the 8 possible scene numbers Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No See above.	*	
Scene number 4 (value = 3) Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No See above. Sth scene - Preallocated preset 5 Channel reacts to No scene number Scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in No See above.		_
Scene number 63 (value = 62)	Scene number I (value = 0	<i>)</i>)
Scene number 63 (value = 62)		
Comment for this scene number Center name See above.	Scene number 4 (value = 3	B)
Comment for this scene number Center name See above.		
number no See above. Lock comfort/automatic during this scene yes Permit teach in No See above. Sth scene - Preallocated preset 5 No scene number Fifth of the 8 possible scene numbers Channel reacts to No scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 63 (value = 62) See above. Comment for this scene number (Enter name) See above. Lock comfort/automatic during this scene yes Permit teach in No See above.	Scene number 63 (value = 62	?)
number no See above. Lock comfort/automatic during this scene yes Permit teach in No See above. Sth scene - Preallocated preset 5 No scene number Fifth of the 8 possible scene numbers Channel reacts to No scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 63 (value = 62) See above. Comment for this scene number (Enter name) See above. Lock comfort/automatic during this scene yes Permit teach in No See above.	Comment for this scene (Enter name	See above.
Lock comfort/automatic during this scene yes		,
during this sceneyesPermit teach inNo YesSth scene - Preallocated preset 5See above.Channel reacts toNo scene number Scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 63 (value = 62)Fifth of the 8 possible scene numbersComment for this scene number(Enter name) Lock comfort/automatic during this sceneSee above.Permit teach inNoSee above.		a See above
Permit teach inNo YesSee above.5th scene - Preallocated preset 5No scene number Scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 63 (value = 62)Fifth of the 8 possible scene numbersComment for this scene number 63 (value = 62)See above.Comment for this scene number(Enter name)See above.Lock comfort/automatic during this sceneno yesSee above.Permit teach inNoSee above.	<u> </u>	
5th scene - Preallocated preset 5Channel reacts toNo scene number S (value = 0)Fifth of the 8 possible scene numbersScene number 1 (value = 0)Scene number 5 (value = 4)Scene number 63 (value = 62)Comment for this scene number(Enter name)See above.Lock comfort/automatic during this scenenoSee above.Permit teach inNoSee above.		
Channel reacts to No scene number S (value = 0) 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 number (Enter name) Lock comfort/automatic during this scene no Permit teach in No See above. See above.	L	8
Scene number 1 (value = 0) Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in Scene number 1 (value = 0) Scene number 5 (value = 62) Scene number 63 (value = 62) Scene above.	-	
Scene number 5 (value = 4) Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in Scene number 5 (value = 4) Enter name) See above. See above.		
Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in Scene number 63 (value = 62) (Enter name) See above. ves No See above.	Scene number 1 (value = 0	<i>)</i>)
Scene number 63 (value = 62) Comment for this scene number Lock comfort/automatic during this scene Permit teach in Scene number 63 (value = 62) (Enter name) See above. ves No See above.		
Comment for this scene number (Enter name) See above. Lock comfort/automatic during this scene no yes Permit teach in No See above.	Scene number 5 (value = 4	0
Comment for this scene number (Enter name) See above. Lock comfort/automatic during this scene no yes Permit teach in No See above.		
numbernoSee above.Lock comfort/automatic during this sceneyesPermit teach inNoSee above.	Scene number 63 (value = 62	?)
numbernoSee above.Lock comfort/automatic during this sceneyesPermit teach inNoSee above.	Comment for this scene (Enter name	e) See above.
Lock comfort/automatic during this scenenoSee above.Permit teach inNoSee above.		
during this sceneyesPermit teach inNo See above.		g See above.
Permit teach in No See above.		
1es		
6th scana Proclingated procest 6	<u>၂</u>	
6th scene - Preallocated preset 6		0: 4 64 0 21
Channel reacts to No scene number Sixth of the 8 possible scene numbers		_
Scene number 1 (value = 0)	Scene number 1 (value = 0	ツ
		.
Scene number 6 (value = 5)	Scene number 6 (value = 5	5)
	Scene number 63 (value = 62	2)



Designation	Values	Description
Comment for this scene	(Enter name)	See above.
number		
Lock comfort/automatic	no	See above.
during this scene	yes	
Permit teach in	No	See above.
	Yes	
7th scene - Preallocated pr	eset 7	
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		
Lock 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	(Enter name)	See above.
Lock comfort/automatic	no	See above.
during this scene	ves	500 above.
Permit teach in	No.	See above.
1 CHARLECUCIT III	Yes	See above.
	163	



5.3.6.8 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 30

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	
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		



5.3.6.9 The "Power failure and restoration" parameter page

Table 31

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.



6 Typical applications

These typical applications are designed to aid planning.

They have no claim to completeness and may be adjusted or extended as desired.

6.1 2x switching with push button interface (switch actuator)

2 push buttons are connected to a TA 2 push button interface and they control 2 channels on the RMG 8 T.

6.1.1 Devices:

- RMG 8 T (Order no. 4930200)
- TA 2 (Order no. 4969202)

6.1.2 Overview



Figure 1

6.1.3 Objects and links

Table 32

No.	TA 2	No.	RMG 8 T	Comment
NO.	Object name	10.	Object name	Comment
0	Channel 1 switching	0	RMG 8 T channel C1	
U	Channel I Switching	U	Switch object	-
2	Channel 2 switching	10	RMG 8 T channel C2	
3	Channel 2 switching	10	switch object	-



6.1.4 Important parameter settings

Standard or customer-defined parameter settings apply for unlisted parameters.

Table 33: TA 2

Parameter page	Parameters	Setting	
Channel 1	Channel function	Switch/push button	
	Object type	Switching (1-bit)	
	Response to rising edge	BY	
	Response to falling edge	none	
Channel 2	See channel 1		

Table 34: RMG 8 T

Parameter page	Parameters	Setting
General	Type of basic module	RMG 8 T
Basic module: RMG 8 T	Channel C1 function	Switch actuator
RMG 8 T channel C1:	Channel function	Switching ON/OFF
configuration options	Activation of function via	Switch object
Contact characteristics	Type of contact	NO contact
RMG 8 T channel C2	See channel C1	

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6.2 Switching light with service counter and display (switch actuator)

A fluorescent light strip in a hall is controlled by channel C1.

The lamps have to be replaced after 20,000 hours (= service).

The time period to the service and the service status are shown on the VARIA 826 display.

6.2.1 Devices

- RMG 8 T (Order no. 4930200)
- VARIA 824/826 (8249200/8269200)

6.2.2 Overview

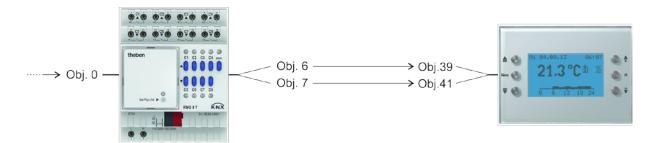


Figure 2



6.2.3 Objects and links

Table 35

No.	KNX sensor Object name	No.	RMG 8 T Object name	Comment
-	(Switching object)	0	Switch object	Any KNX sensor: Push button, time switch, twilight switch, etc. sends the switch command to RMG 8 T

Table 36:

No.	RMG 8 T	No.	VARIA	Comment
	Object name		Object name	
6	Time to next service	39	Counter value 065535	Time in hours
7	Service required	41	Switching ON/OFF	1 = Time has elapsed



6.2.4 Important parameter settings

Standard or customer-defined parameter settings apply for unlisted parameters.

Table 37: RMG 8 T

Parameter page	Parameters	Setting
General	Type of basic module	RMG 8 T
Basic module: RMG 8 T	Channel C1 function	Switch actuator
RMG 8 T channel C1:	Channel function	Switching ON/OFF
configuration options	Activate hour counter	Yes
Contact characteristics	Type of contact	NO contact
Hour counter and service	Type of hour counter	counter for time period
		before next service
	Service interval	200
	(02000, x10 h)	
	Reporting of time to service	100
	when changing	
	(0100 h, 0 = no report)	
	Report service cyclically	yes

Table 38: VARIA 824 / 826

Parameter page	Parameters	Setting
Selection of display pages	Show page 1 for display objects	yes
Display objects page 1	Fade in operating instructions on page 1	No
	Page heading	Lamp maintenance*
Page 1, line 1	Line format	16 bit counter value object type
	Text for line 1	Service in*
	Unit for display object	h
	Value range	Negative and positive numbers
	Display before receipt of value	Read from object via bus
Page 1, line 2	Line format	Switch on object type
	Text for line 1	Lamp status*
	Text for object value = 0	OK*
	Text for object value = 1	Service*
	Display before receipt of value	Read from object via bus
	vaiue	

^{*}Suggested text



6.3 Simple alarm function with flashing light (switch actuator)

A monitoring device, e.g. flood alarm is connected to a TA 2 push button interface, and it controls a channel on the RMG 8 T.

A lamp flashes in the event of an alarm (channel 1 relay output).

6.3.1 Devices:

- RMG 8 T (Order no. 4930200)
- TA 2 (Order no. 4969202)

6.3.2 Overview

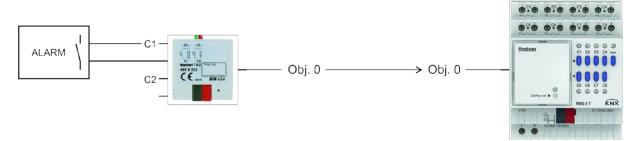


Figure 3

6.3.3 Objects and links

Table 39

No.	TA 2	No.	RMG 8 T	Comment
NO.	Object name	NO.	Object name	Comment
0	Channel 1 switching	0	RMG 8 T channel C1	
			Switch object	-



6.3.4 Important parameter settings

Standard or customer-defined parameter settings apply for unlisted parameters.

Table 40: TA 2

Parameter page	Parameters	Setting
Channel 1	Channel function	Switch/push button
	Object type	Switching (1-bit)
	Response to rising edge	On
	Response to falling edge	Off

Table 41: RMG 8 T

Parameter page	Parameters	Setting
General	Type of basic module	RMG 8 T
Basic module: RMG 8 T	Channel C1 function	Switch actuator
RMG 8 T channel C1:	Channel function	Flashing
configuration options	Activation of function via	Switch object
Contact characteristics	Type of contact	NO contact
Flashing	ON phase:	
	Hours	0
	Minutes	0
	Seconds	1
	OFF phase:	
	Hours	0
	Minutes	0
	Seconds	1
	How often should it flash	Until it switches off



6.4 Basic switching, simple blind controls (blinds actuator)

All channels are configured as blinds actuators and are controlled by the push button interface TA 4.

1 single push button is connected to the push button interface TA 4 for each set of blinds (single-surface operation).

Depending on whether the push buttons are pressed for a short or long time, the push button interface sends UP/DOWN or step/stop telegrams.

The blinds should be raised in the evenings and remain open at night.

For this purpose the time switch TR 648 top2 RC is programmed in such a way that channel 1 sends an Off telegram (astro-pulse) to the central UP-DOWN object.

6.4.1 Devices:

- RMG 8 T (Order no. 4930200)
- TA 4 (Order no. 4969204)
- TR 648 top2 RC-DFC or RC (6489210/6489212)



6.4.2 Overview

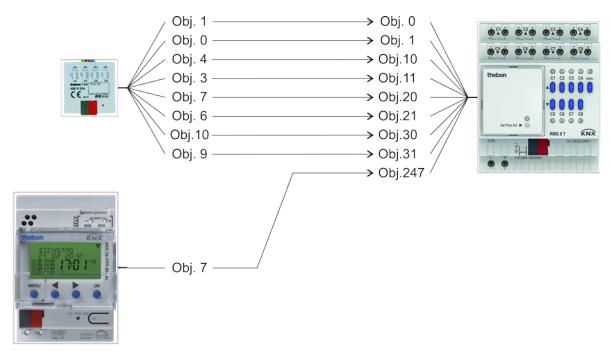


Figure 4

From top to bottom:

- The push button interface: operation by the user (up/down, step/stop).
- The time switch: sends an OFF telegram at sunset as an UP command for all blinds.



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6.4.3 Objects and links

Table 42

No.	TA 4	No.	RMG 8 T	Comment
NO.	Object name	NO.	Object name	Comment
1	Blinds channel 1	0	RMG 8 T channel C1	
1	Up/Down	U	Up/Down	
0	Blinds channel 1	1	RMG 8 T channel C1	
0	Step/stop	1	Step/stop	
4	Blinds channel 2	10	RMG 8 T channel C2	
	Up/Down	10	Up/Down	Long keystroke for
3	Blinds channel 2	11	RMG 8 T channel C2	Up/down operating commands.
3	Step/stop	11	Step/stop	Op/down operating commands.
7	Blinds channel 3	20	RMG 8 T channel C3	Short press of push button for
,	Up/Down	20	Up/Down	Step/stop commands.
6	Blinds channel 3	21	RMG 8 T channel C3	Step/stop commands.
U	Step/stop	21	Step/stop	
10	Blinds channel 4	30	RMG 8 T channel C4	
10	Up/Down	30	Up/Down	
9	Blinds channel 4	31	RMG 8 T channel C4	
9	Step/stop	51	Step/stop	

Table 43

No.	TR 648 top2	No.	RMG 8 T	Comment
140.	Object name		Object name	Comment
7	C1.1 Switching channel - switching	247	Central UP/DOWN	Timer sends an OFF telegram at sunset. All drives are run up.



6.4.4 Important parameter settings

The standard parameter settings apply for unlisted parameters or user's own parameter settings.

Table 44: TA 4

Parameter page	Parameters	Setting
Channel 1 Channel 4	Channel function	Blinds
	Operation	Single-surface operation

Table 45: RMG 8 T

Parameter page	Parameters	Setting
General	Type of basic module	RMG 8 T
Basic module: RMG 8 T	Channel C1 function	Blinds actuator
RMG 8 T	Type of hanging	Blinds

Table 46: TR 648 top2 KNX

Parameter page	Parameters	Setting
General	Activate time switch channel	Yes
	C1	
Switching channel C1	Telegram type C1.1*	Switch command
	With clock \rightarrow ON	no telegram
	With clock → OFF	send following telegram once
	Telegram	OFF

^{*} Channel C1 of the TR 648 top2 time switch is programmed as an Astro channel. This channel should generate a 1 s long Astro pulse at sunset. An OFF telegram will be sent when the pulse is switched off.



6.5 Blinds control with sun position tracking and frost alarm (blinds actuator)

Channel 1 is set as blinds actuator.

A push button, which is connected with the binary input TA4, sends the up/down and step/stop commands. The weather station Meteodata 140 controls the slat tilt in accordance with the sun position.

This helps achieve optimal light incidence without direct solar radiation.

The blinds should be raised when there is a danger of frost. The object *Central safety frost* is involved in this.

6.5.1 Devices:

- RMG 8 T (Order no. 4930200)
- Meteodata 140 (order no. 1409200)
- TA 4 (Order no. 4969204)

6.5.2 Overview

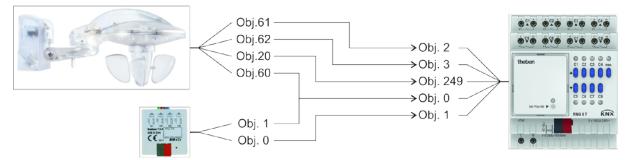


Figure 5

From top to bottom:

- The weather station: sends the telegrams for positioning of the blinds according to the position of the sun.
 - If no shading is required, the blinds will be raised (obj. 60).
- The push button interface: operation by the user (up/down, step/stop)



6.5.3 Objects and links

Table 47

No.	Meteodata 140	No.	RMG 8 T	Comment
NO.	Object name	110.	Object name	Comment
20	C1.1 Switching	249	Central safety frost	The safety telegram is sent by Meteodata (C1.1 universal channel).
60	C11 up/down	0	RMG 8 T channel C1 Up/Down	-
61	C11 Blinds height	2	% Height	-
62	C11 Slat position	3	% Slat	-

Table 48

No.	TA 4	No.	RMG 8 T	Comment
NO.	Object name	NO.	Object name	Comment
0	Blinds channel 1	1	RMG 8 T channel C1	Long keystroke for
U	Step/stop	1	Step/stop	Up/down operating commands.
1	Blinds channel 1	0	RMG 8 T channel C1	Short press of push button for
1	Up/Down	U	Up/Down	Step/stop commands.



6.5.4 Important parameter settings

Standard or customer-defined parameter settings apply for unlisted parameters.

Table 49: Meteodata 140

Parameter page	Parameters	Setting				
General	Activate universal channel	yes				
	<i>C1</i>					
	Activate sun protection	yes				
	channel C11					
Universal channel C1:	Channel function	Temperature sensor				
Function	Temperature threshold	below 4 °C				
	Temperature hysteresis	1.0 K				
Sun protection channel C11	Channel controls	Blinds				
	Sun position adjustment	yes				
	Drive height when brightness	100 %				
	threshold is exceeded					
Automatic sun function	Activation of automatic sun	via dimming threshold				
	function					
Sun position adjustment	The individual location and user-dependent settings apply					
	here.					

Table 50: RMG 8 T

Parameter page	Parameters	Setting		
General	Type of basic module	RMG 8 T		
Basic module: RMG 8 T	Channel C1 function	Blinds actuator		
RMG 8 T channel C1	Type of hanging	Blinds		
configuration options				
Safety wind/rain/frost	Participation in safety wind	no		
	Participation in safety rain	no		
	Participation in safety frost	yes		
	Start	Top end position		
	End	Update		
		(Height/Slat)		



7 Appendix

7.1 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.

7.1.1 With blinds channels

The positions of the hangings will be frozen.

All non-safety related bus telegrams are disabled, 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.



7.2 The scenes

7.2.1 Principle

The current status of a channel, or a complete MIX system can be stored and retrieved as required at a later point 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 MIX system to be easily associated with each chosen user scene.

Table 51: Permitted scene numbers

Series	Device	Supported scene numbers		
	DME 2 S			
MIX (order no. 4910xxx)	JME 4 S	1 8		
	RME 4 S / C-load			
MIX2 (order no. 4930xxx)	RMG/RME 8 S			
	RMG/RME 4 I			
	DMG 2 T/DME 2 T	1 64		
	RMG 8 T/JME 4 T			
	RMG 8 T/RME 8 T			

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

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



7.2.2 Call up or save scenes:

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

Table 52

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:

Soone		II 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:

→ Send \$04 to the relevant scene object.

Save current status with scene 5:

→ Send \$84 to the relevant scene object.



7.2.3 Teach in scenes without telegrams (MIX2 ONLY)

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* (*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 locked via a parameter.

7.3 Conversion of percentages to hexadecimal and decimal values

Percentage	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
value											
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.