KNX DALI Gateway

Technical Manual



KNX DALI Gateway DL101 (1 Channel)	WRKT22245NC	
KNX DALI Gateway DL102 (2 Channel)	WRKT22255NC	

V 1.1

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3 Document

3.1 Updates

Version	Date	Amendment
1.01	January 2023	Completion of the final release

Table 1

3.2 Abbreviations

Abbreviation	Description
DALI	Digital addressing lighting interface
ECG	Electronically controlled ballast
IP	Internet protocol
KNX Object Flags	
С	Communication
R	Reading
w	Writing
Т	Transmission
U	Update
Other	
Par.	Parameter
Obj.	Object
LC	Last command
ТС	Transmitted Command

4 Product

4.1 General description

The KNX DALI Gateway product is an interface device that works on lighting control between the KNX bus and the DALI bus in accordance with the DALI-IEC 62386 (DALI-1 / DALI-2) standard. The device allows KNX to manage and monitor ballasts in the DALI bus as individual, group and broadcast. The device has options with 1 or 2 channel DALI outputs and provides energy to the DALI bus with the internal DALI power supply. Therefore, it is not allowed to connect an external DALI power supply to the DALI line. User and manager level operations can be performed and various warnings and device information can be accessed with the button, LED and segment interface on the device. The device has 2 isolated relay outputs and these outputs can be used in various applications. The device also has an Ethernet port and can be mounted on a DIN rail.

4.2 *Key features*

- For each DALI channel, 64 ballasts, 16 groups, 16 scenarios and broadcast control
- Stair lighting, night, panic and preparation mode controls for each DALI ballast and group via KNX
- Fault monitoring of DALI ballasts via KNX
- Automatic addressing of ballasts on the DALI line
- Manual control and monitoring of ballasts in DALI line via user interface
- DALI power supply capability
- Software update via Ethernet

4.3 Technical information

WORKING VOLTAGE						
Supply voltage		230 V AC, 50/60 Hz				
Power consumption (mains)	Max 8W (230 V AC and max. load) (for 1 channel)				
		Max 12W (230 V AC and m	ax. load) (for 2 channel)			
DALI						
Number of DALI outputs		1 channel	2 channel			
Number of DALI devices		Up to 64 ball	asts per outlet			
Protection		Short circuit, Overload,	Over voltage (230 V AC)			
DALI voltage						
N	o-load voltage	18 V DC	18 V DC			
N	laximum supply current	250 mA	2x250 mA			
G	uaranteed supply current	230 mA	2x190 mA			
		DALI control voltage, (FELV).			
DALI cable lengths (for copp	per wire)	- 2.5 mm² max 300 m				
		- 1.5 mm² max 300 m				
		- 1.0 mm² max 224 m				
		- 0.75 mm² max 168 m				
		- 0.5 mm² max 112 m				
DALI transmission rate		1200 bit / s				
KNX						
KNX voltage		DC 2132 V (SELV)				
KNX current consumption		<5 mA				
KNX connection type		TP1				
Configuration mode		S-Mode				
IP						
Connection speed		10/100 Mbits				
RELAY OUTPUTS						
Output contact 1		1 N/O, 2A-277V AC Resistiv	re, 2A 30V DC			
Output contact 2		1 N/O, 2A-277V AC Resistive, 2A 30V DC				
BUTTONS AND INDICA	TORS					
Control buttons		< , SET , > , ESC (Total 4 but	tons)			
Display and LED indicators		MENU, STATUS 1/2, IP LINK	(/TRAFFIC, KNX PROG., A, B			
		(only on 2 channels) - Total	6 LED indicators			
		3 Digit 7-Segment LED Disp	lay			
ENVIRONMENTAL CON	NDITIONS					
Protection type (IEC60529)		IP20				
Protection class (IEC61140)						
Insulation category		Overvoltage category III (IE	C60664)			
		Pollution degree 2 (IEC606	64)			
Temperature range		Operation -5+45 °C				
		Storage -10+55 °C				
		Transportation -25+70 °C				
Humidity range		593% (non-condensing)				
MECHANICAL DESIGN						
Dimensions (HxExD)		90mmx71.8mmx65.8mm				
Mounting (IEC60715)		35 mm top-hat ray (TH35)				
Mounting width		DIN ray 72mm (4 module)				
KNX line connection		KNX connector (243-211 W	'ago)			
IP connector		Ethernet (RJ45, female)				



Connection type (Power/Relay/DALI)	Screw terminal
	Single wire cable cross-section: 1,5mm ² 4mm ² or 2x1,5mm ² 2x2,5mm ² Multi-stranded cable cross-section when using a cable ring: 0,75mm ² 4mm ² Multi-stranded cable cross-section when no cable ring is used: 0,5mm ² 2,5mm ²
Weight	0.22 kg
STANDARDS	
Product	EN 62386 (DALI), EN 50090 (KNX)
EMC	EN 50428 / EN 60669-2-5
LVD	EN60669-1, EN 60669-2-1, EN 50428 / EN 60669-2-5

4.4 Versions

Product Code	WRKT22245NC	WRKT22255NC
DALI Channel Number	1	2
Number of Relay Outputs	2	2

4.5 Measurements







Figure 2 : Depth

4.6 Behaviors

• Factory Settings

In the delivered state, the Device is set so that the ETS application is removed, manual control is enabled and only DALI broadcast control is available until DALI is commissioned. For the first test of the DALI bus, limited DALI commissioning can be performed in manual control. The device may be delivered with the old software version. Please check our website for the latest firmware and update steps.

• ETS programming

The user can determine the behavior of the device and after programming it with ETS, it can be made to work in harmony with other devices in the KNX line. The behavior of the device after programming with ETS depends on the configuration. A description of the properties, parameters and objects can be found in the device reference manual.

Manual control

Manual control is available in the factory default settings. If desired, it can be deactivated with parameters via ETS. Information about the device, the ballasts in the DALI line, control, fault status and similar operations can be done through manual control. Press "[SET]" for 5 seconds to enter manual control mode. The MENU LED will light and the display will show the user menu information. Detailed information about the user menu can be found in the reference manual.

5 KNX catalog information

Manufacturer	Panasonic
Product family	Gateways
Product type	DALI Gateway
Product name	DALI Gateway DL101 DALI Gateway DL102

6 KNX objects summary table

No	Name	Function	Length	Data Type	Flags		Flags				
			Lengen	Dutu Type	С	R	W	Т	U		
1	General	Device Status	1bit	1.011 state	С		w		u		
2	General	Device Status Feedback	1bit	1.011 state	С	r		t			
3	General	Device In Operation	1bit	1.017 trigger	с	r		t			
4	General	Device In Startup	1bit	1.017 trigger	с	r		t			
5	General	Device Supply Voltage Fault	1bit	1.005 alarm	с	r		t			
6	General	Acknowledge Device Supply Voltage Fault	1bit	1.016 acknowledge	С		w		u		
8	General	Date Time Query	1bit	1.017 trigger	с			t			
9	General	Date/Time Date	8byte 3byte	19.001 date time 11.001 date	С		w		u		
10	General	Time	3byte	10.001 timeofday	с		w		u		
11	General	Relay 1 Control	1bit	1.001 switch	с		w		u		
12	General	Relay 2 Control	1bit	1.001 switch	с		w		u		
13	User Menu	Menu State Feedback	1byte	20.xxx eNumeration Custom DPT	с	r		t			
14	User Menu	Manual Operation Menu	1bit	1.003 enable	С		w		u		
15	User Menu	Information Menu	1bit	1.003 enable	С		w		u		
16	User Menu	Emergency Test Menu	1bit	1.003 enable	с		w		u		
17	DALI Channel A General	Auto Device Replacement	1bit	1.010 start	С		w		u		
18	DALI Channel A General	Manual Device Replacement Short Address	1byte	5.xxx Unsigned Custom DPT	С		w		u		
19	DALI Channel A General	Device Replacement Status	1byte	20.xxx eNumeration Custom DPT	С	r		t			
20	DALI Channel A General	Burn-in Mode	1bit	1.010 start	С		w		u		
21	DALI Channel A General	Burn-in Mode Remaining Time	2byte	7.006 time (m)	С	r		t			
22	DALI Channel A General	Burn-in Mode Remaining Time Request	1byte	5.xxx Unsigned Custom DPT	С		w		u		
23	DALI Channel A General	Panic Mode	1bit	1.010 start	С		w		u		
24	DALI Channel A General	Panic Mode Feedback	1bit	1.010 start	с	r		t			
25	DALI Channel A General	Night Mode	1bit	1.010 start	С		w		u		
26	DALI Channel A General	Night Mode Feedback	1bit	1.010 start	С	r		t			
28	DALI Channel A General	<i>ECG Power Line Control Zone</i> 1	1bit	1.001 switch	С	r		t			
29	DALI Channel A General	<i>ECG Power Line Control Zone</i> 2	1bit	1.001 switch	с	r		t			
30	DALI Channel A General	<i>ECG Power Line Control Zone</i> <i>3</i>	1bit	1.001 switch	С	r		t			
31	DALI Channel A General	<i>ECG Power Line Control Zone</i> <i>4</i>	1bit	1.001 switch	С	r		t			
32	DALI Channel A General	<i>ECG Power Line Control Zone</i> 5	1bit	1.001 switch	С	r		t			
33	DALI Channel A General	<i>ECG Power Line Control Zone</i> 6	1bit	1.001 switch	С	r		t			
34	DALI Channel A General	ECG Power Line Control Zone 7	1bit	1.001 switch	С	r		t			
35	DALI Channel A General	ECG Power Line Control Zone 8	1bit	1.001 switch	С	r		t			

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36	DALI Channel A General	ECG Power Line Control Zone 9	1bit	1.001 switch	с	r		t	
37	DALI Channel A General	ECG Power Line Control Zone	1bit	1.001 switch	с	r		t	
38	DALI Channel A Broadcast	Switching	1bit	1.001 switch	С		w		u
39	DALI Channel A Broadcast	Relative Dimming	4bit	3.007 dimming control	с		w		u
40	DALI Channel A Broadcast	Absolute Brightness	1byte	5.004 percentage (0255%)	С		w		u
42	DALI Channel A Broadcast	Switch On Brightness Value	1byte	5.004 percentage (0255%)	С		w		u
43	DALI Channel A Broadcast	Switch Off Brightness Value	1byte	5.004 percentage (0255%)	С		w		u
44	DALI Channel A Broadcast	Fade Time For Switch On	1byte 2byte 2byte	20.602 dali fade time 7.004 time(100ms) 7.005 time(s)	С		w		u
45	DALI Channel A Broadcast	Fade Time For Switch Off	1byte 2byte 2byte	20.602 dali fade time 7.004 time(100ms) 7.005 time(s)	С		w		u
46	DALI Channel A Broadcast	Fade Time For Relative Dimming	1byte 2byte 2byte	20.602 dali fade time 7.004 time(100ms) 7.005 time(s)	С		w		u
47	DALI Channel A Broadcast	Fade Time For Absolute Brightness	1byte 2byte 2byte	20.602 dali fade time 7.004 time(100ms) 7.005 time(s)	С		w		u
48	DALI Channel A Broadcast	Color Temperature Value	2byte	7.600 absolute color temperature (K)	С		w		u
52	DALI Channel An ECG 1	Switching	1bit	1.001 switch	с		w		u
53	DALI Channel A ECG 1	Relative Dimming	4bit	3.007 dimming control	с		w		u
54	DALI Channel A ECG 1	Absolute Brightness	1byte	5.004 percentage (0255%)	С		w		u
56	DALI Channel A ECG 1	Switch On Brightness Value	1byte	5.004 percentage (0255%)	С		w		u
57	DALI Channel A ECG 1	Switch Off Brightness Value	1byte	5.004 percentage (0255%)	С		w		u
58	DALI Channel A ECG 1	Fade Time For Switch On	1byte 2byte 2byte	20.602 dali fade time 7.004 time (100ms) 7.005 time (s)	C		w		u
59	DALI Channel A ECG 1	Fade Time For Switch Off	1byte 2byte 2byte	20.602 dali fade time 7.004 time (100ms) 7.005 time (s)	С		w		u
60	DALI Channel A ECG 1	Fade Time For Relative Dimming	1byte 2byte 2byte	20.602 dali fade time 7.004 time (100ms) 7.005 time (s)	С		w		u
61	DALI Channel A ECG 1	Fade Time For Absolute Brightness	1byte 2byte 2byte	20.602 dali fade time 7.004 time (100ms) 7.005 time (s)	C		w		u
62	DALI Channel A ECG 1	Switching Value Feedback	1bit	1.001 switch	С	r		t	
63	DALI Channel A ECG 1	Brightness Value Feedback	1byte	5.001 percentage (0100%)	C	r		t	
64	DALI Channel A ECG 1	ECG Fault Feedback	1bit	1.005 alarm	С	r		t	
65	DALI Channel A ECG 1	Lamp Fault Feedback	1bit	1.005 alarm	C C	r		t	

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66	DALI Channel A ECG 1	Status Feedback	2byte	27.001 bit-combined	С	r		t	
67	DALI Channel A ECG 1	Forced Mode	2bit	2.001 switch control	С		w	t	u
68	DALI Channel A ECG 1	Forced Brightness Value	1byte	5.004 percentage (0255%)	С		w		u
69	DALI Channel A ECG 1	Lock Mode	1bit	1.003 enable	с		w	t	u
70	DALI Channel A ECG 1	Burn-in Mode	1bit	1.010 start	с		w		u
71	DALI Channel A ECG 1	Burn-in Mode Feedback	1bit	1.011 state	с	r		t	
73	DALI Channel A ECG 1	Burn-in Mode Time	2byte	7.006 time (m)	с		w		u
74	DALI Channel A ECG 1	Burn-in Mode Remaining Time	2byte	7.006 time (m)	С	r		t	
75	DALI Channel A ECG 1	Operation Hours Reset	1bit	1.015 reset	с		w		u
76	DALI Channel A ECG 1	Operation Hours Life Time Alarm	1bit	1.005 alarm	С	r		t	
77	DALI Channel A ECG 1	Operation Hours Feedback	2byte	7.007 time (h)	с	r		t	
78	DALI Channel A ECG 1	Absolute Color Temperature Value	2byte	7.600 absolute color temperature (K)	С		w		u
82	DALI Channel A ECG 1	Relative Color Temperature Value	4bit	3.007 dimming control	С		w		u
86	DALI Channel A ECG 1	Percentage Color Temperature Value	1byte	5.001 percentage (0100%)	С		w		u
88	DALI Channel A ECG 1	Color Temperature Feedback	2byte	7.600 absolute color temperature (K)	С	r		t	
92	DALI Channel A ECG 1	Emergency Lighting Test Control	1byte	20.611 converter test control	с		w		u
94	DALI Channel A ECG 1	Emergency Lighting Converter Status	2byte	244.600 converter status	С	r		t	
95	DALI Channel A ECG 1	Emergency Lighting Battery Status	2byte	246.600 battery info	С	r		t	
96	DALI Channel A ECG 1	Emergency Lighting Test Result	6byte	245.600 converter test result	С	r		t	
97	DALI Channel A ECG 1	Emergency Lighting Rest Mode	1bit	1.003 enable	С		w		u
98	DALI Channel A ECG 1	Emergency Lighting Rest Mode Feedback	1bit	1.003 enable	С	r		t	
99	DALI Channel A ECG 1	Emergency Lighting Inhibit Mode	1bit	1.003 enable	С		w		u
100	DALI Channel A ECG 1	Emergency Lighting Inhibit Mode Feedback	1bit	1.003 enable	С	r		t	
	*	The object numbers of other ECGs	can be obta	nined by adding the object n	umbe	rs of	ECG 1	with	1 49
3188	DALI Channel A Group 1	Switching	1bit	1.001 switch	С		w		u

3188	DALI Channel A Group 1	Switching	1bit	1.001 switch	С	и	/	u
3189	DALI Channel A Group 1	Relative Dimming	4bit	3.007 dimming control	С	и	/	u
3190	DALI Channel A Group 1	Absolute Brightness	1byte	5.004 percentage (0255%)	С	и	'	u
3192	DALI Channel A Group 1	Switch On Brightness Value	1byte	5.004 percentage (0255%)	С	и	/	u
3193	DALI Channel A Group 1	Switch Off Brightness Value	1byte	5.004 percentage (0255%)	С	и	/	u
3194	DALI Channel A Group 1	Fade Time For Switch On	1byte 2byte 2byte	20.602 dali fade time 7.004 time (100ms) 7.005 time (s)	C	и	/	u
3195	DALI Channel A Group 1	Fade Time For Switch Off	1byte 2byte 2byte	20.602 dali fade time 7.004 time (100ms) 7.005 time (s)	C	и	/	u

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3196	DALI Channel A Group 1	Fade Time For Relative Dimming	1byte 2byte 2byte	20.602 dali fade time 7.004 time (100ms) 7.005 time (s)	С		w		u
3197	DALI Channel A Group 1	Fade Time For Absolute Brightness	1byte 2byte 2byte	20.602 dali fade time 7.004 time (100ms) 7.005 time (s)	С		w		u
3198	DALI Channel A Group 1	Switching Value Feedback	1bit	1.001 switch	с	r		t	
3199	DALI Channel A Group 1	Brightness Value Feedback	1byte	5.001 percentage (0100%)	С	r		t	
3200	DALI Channel A Group 1	ECG Fault Feedback	1bit	1.005 alarm	с	r		t	
3201	DALI Channel A Group 1	Lamp Fault Feedback	1bit	1.005 alarm	с	r		t	
3202	DALI Channel A Group 1	Status Feedback	2byte	27.001 bit-combined info	С	r		t	
3203	DALI Channel A Group 1	Forced Mode	2bit	2.001 switch control	С		w	t	u
3204	DALI Channel A Group 1	Forced Brightness Value	1byte	5.004 percentage (0255%)	С		w		u
3205	DALI Channel A Group 1	Lock Mode	1bit	1.003 enable	С		w	t	u
3206	DALI Channel A Group 1	Burn-in Mode	1bit	1.010 start	с		w		u
3207	DALI Channel A Group 1	Burn-in Mode Feedback	1bit	1.011 state	С	r		t	
3209	DALI Channel A Group 1	Burn-in Mode Time	2byte	7.006 time (m)	с		w		u
3210	DALI Channel A Group 1	Burn-in Mode Remaining Time	2byte	7.006 time (m)	С	r		t	
3211	DALI Channel A Group 1	Operation Hours Reset	1bit	1.015 reset	С		w		u
3212	DALI Channel A Group 1	Operation Hours Life Time Alarm	1bit	1.005 alarm	С	r		t	
3213	DALI Channel A Group 1	Operation Hours Feedback	2byte	7.007 time(h)	С	r		t	
3214	DALI Channel A Group 1	Absolute Color Temperature Value	2byte	7.600 absolute color temperature (K)	С		w		u
3218	DALI Channel A Group 1	Relative Color Temperature Value	4bit	3.007 dimming control	С		w		u
3222	DALI Channel A Group 1	Percentage Color Temperature Value	1byte	5.001 percentage (0100%)	С		w		u
3224	DALI Channel A Group 1	Color Temperature Feedback	2byte	7.600 absolute color temperature (K)	С	r		t	
3228	DALI Channel A Group 1	Emergency Lighting Test Control	1byte	20.611 converter test control	С		w		u
3230	DALI Channel A Group 1	Emergency Lighting Converter Status	2byte	244.600 converter status	С	r		t	
3231	DALI Channel A Group 1	Emergency Lighting Battery Status	2byte	246.600 battery info	С	r		t	
3232	DALI Channel A Group 1	Emergency Lighting Test Result	6byte	245.600 converter test result	С	r		t	
3233	DALI Channel A Group 1	Emergency Lighting Rest Mode	1bit	1.003 enable	С		w		u
3234	DALI Channel A Group 1	Emergency Lighting Rest Mode Feedback	1bit	1.003 enable	С	r		t	
3235	DALI Channel A Group 1	Emergency Lighting Inhibit Mode	1bit	1.003 enable	С		w		u
3236	DALI Channel A Group 1	Emergency Lighting Inhibit Mode Feedback	1bit	1.003 enable	С	r		t	
	* The object numbers o	f other Groups can be obtained by	v adding the o	object numbers of Group 1	with 4	19			
3972	DALI Channel A Scene	Control	1byte	18.001 scene control	С		w		u



4006	DALI Channel A	Addressed Test Control	2byte	7.001 pulses	с		w		u
	Emergency Light Control								
4007	DALI Channel A	Addressed Test Result	2byte	7.001 pulses	С	r		t	
	Emergency Light Control								
4010	DALI Channel A Feedback	Central Switching Feedback	1bit	1.001 switch	С	r		t	
4011	DALI Channel A Feedback	Central Brightness Feedback	1byte	5.001 percentage (0100%)	С	r		t	
4012	DALI Channel A Feedback	Addressed Switching Feedback	1byte	Bit-combined info	С	r		t	
4014	DALI Channel A Feedback	Addressed Brightness Feedback	2byte	Bit-combined info	С	r		t	
4015	DALI Channel A Feedback	Combined Switching Feedback	10byte	Bit-combined info	С	r		t	
4016	DALI Channel A Feedback	Central Operation Hour Feedback	1bit	1.005 alarm	С	r		t	
4018	DALI Channel A Fault	Acknowledge Fault Messages	1bit	1.016 acknowledge	С		w		u
4019	DALI Channel A Fault	Disable Fault Messages	1bit	1.003 enable	С		w		u
4020	DALI Channel A Fault	Show Address of Faulty ECGs	1byte	5.010 counter	С	r		t	
4021	DALI Channel A Fault	Show Address of Next/Previous Faulty ECG	1bit	1.008 up	С		w		u
4022	DALI Channel A Fault	Show Address of Faulty Groups	1byte	5.010 counter	С	r		t	
4023	DALI Channel A Fault	Show Address of Next/Previous Faulty Group	1bit	1.008 up	С		W		u
4024	DALI Channel A Fault	Central ECG Fault	1bit	1.005 alarm	С	r		t	
4025	DALI Channel A Fault	Central Lamp Fault	1bit	1.005 alarm	С	r		t	
4026	DALI Channel A Fault	Number of ECG Fault	1byte	5.010 counter	С	r		t	
4027	DALI Channel A Fault	Number of Lamp Fault	1byte	5.010 counter	С	r		t	
4028	DALI Channel A Fault	Addressed DALI Fault	2byte	237.600 DALI Diagnostic	С	r		t	
4029	DALI Channel A Fault	Combined DALI Channel Faults	1byte	Bit-combined info	С	r		t	
4030	DALI Channel A Fault	Combined ECG Fault	10byte	Bit-combined info	С	r		t	
4031	DALI Channel A Fault	Combined Lamp Fault	10byte	Bit-combined info	с	r		t	
	* The object number	ers of Channel B can be obtained l	by adding th	e object numbers of Chan	nel A wi	th 40	16		

7 KNX ETS Database

7.1 Device tab

7.1.1 General parameters

No	Name	Value	Description
1	Startup delay	3255s	This parameter defines the minimum delay time (s) for device initialization.
			This time may be longer depending on the number of ballasts in the DALI line. The start status of the device can be observed with object 4.
2	KNX telegram limitation	Disable / Enable	This parameter limits the number of messages that can be sent to the KNX line. The number and duration of messages to be limited are set with the relevant parameters.
3	Limit	1255	This parameter determines the number of messages to be limited on the KNX line within the specified time.
4	Period	3255s	This parameter determines how long KNX messages will be limited.
5	Device status object	Disable / Enable	This parameter enables external control of the operating status of the device. This function is realized with object 1.
6	Feedback	Disable On request On request or on change On request or on cyclically	This parameter activates the external monitoring of the operating status of the device. This function is realized with object 2.
			On request: When this value is selected, the object must be read manually.
			On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes.
			On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
7	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.

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No	Name	Value	Description
8	Device in operation object	Disable / Enable	This parameter sends the information that the device is operational at certain intervals to the KNX line with certain values.
9	Value	0/1	This parameter determines with which value the information that the device is running will be sent.
10	Period	3255s	This parameter determines how many seconds intervals cyclically the information that the device is operational will be sent to the KNX bus.
11	Device supply voltage fault	Disable / Enable	This parameter activates the sending of an error code to the KNX bus in case of any mains interruption while the device is running.
12	Acknowledgement via object	Disable / Enable	This parameter determines how the mains interruption alarm sent to the KNX bus is reset.
13	Central feedback request	Disable / Enable	This parameter is used for collective feedback from the device
14	Date time object format	Combined / Separated	This parameter allows sending and receiving date and time to and from the device via KNX bus.
15	User menu controls	Disable / Enable	Activates the use of the user menu.
16	IP access	Disable / Enable	This parameter opens the IP settings page. On the page that opens, the device can be given a fixed IP address or it can receive the address automatically via DHCP.
17	DALI channel 1	Disable / Enable	Allows the DALI channel to be activated.
18	DALI channel 2	Disable / Enable	Allows the DALI channel to be activated.
19	Relay 1 control	Disable / Enable	This parameter is used to activate the object of relay 1.
20	Relay 2 control	Disable / Enable	This parameter is used to activate the object of relay 2.

7.1.2 General objects

No					Fla	ags			
	Name	Function	Value	Туре	С	R	w	т	υ
1	General	Device Status	0/1	1.011 state	С		W		U

Table 8

With this object, the operation of the device can be controlled.

1: Device is active

0: Device in inactive state

No	Namo	Function	Value	Turno	Fla	ags			
	Name	runction	value	туре	С	C R	w	Т	U
2	General	Device Status Feedback	0/1	1.011 state	С	R		Т	

Table 9

This object monitors the operation of the device.

1: Device is active

0: Device in inactive state

No	Namo	Eurotion	Value	Tuno	Fla	ags						
	Name	runction	value	Туре	С	R	w	т	U			
3	General	Device In Operation	0/1	1.017 trigger	С	R		Т				

Table 10

With this object, information that the device is in operation is received from the KNX line at certain intervals.

No	Nama	Eurotion	Value	Tuno	Fla	Flags				
	Name	runction	Value	туре	С	R	w	Т	U	
4	General	Device In Startup	0/1	1.017 trigger	С	R		Т		

Table 11

With this object, the start status of the device is monitored.

1: The device is in the start-up state

0: The device in normal operation

No	Nome	Function	Value	Turne	Fla	Flags					
	Name		value	туре	С	R W	Т	υ			
5	General	Device Supply Voltage Fault	0/1	1.005 alarm	С	R		Т			

With this object, an error code is displayed on the KNX bus in case of any network interruption while the device is running.

No	Nama	Function	Value	Turno	Flags					
	Name	runction	value	туре	С	R	w	т	U	
6	General	Acknowledge Device Supply Voltage Fault	0/1	1.016 acknowledge	С		W		U	

Table 13

With this object, the network interruption error given by object 5 is reset.

No	Nama	Function Va	Value	Turne	Fla	ngs			
NO	Name		value	туре	С	R	w	Т	U
7	General	Central Feedback Request	0/1	1.017 trigger	С		W		U

Table 14

With this object, collective feedback information is requested from the device. It will not send aggregated feedback information if the device is not in proper condition.

No	Namo	Function	Value	Tumo		Flags				
INO	Name			туре	С	R	w	т	U	
8	General	Date Time Query	0/1	1.017 trigger	С			Т		

Table 15

With this object the device sends a date time update request to the KNX line.

No	Nama	Function	Value	Туре	Fla				
NO	Name				С	R	w	Т	U
9	General	Date/Time		19.001 date time	С	R	W	Т	U
9	General	Date		11.001 date	С	R	W	Т	U
10	General	Time		10.001 time of day	С	R	W	Τ	U

Table 16

These object(s) allow the date and time to be sent to and received from the device via the KNX bus.

No	Nama	Function	Value	Туре	Flags						
NO	Name				С	R	w	т	U		
11	General	Relay 1 Control	0/1	1.001 switch	С		W		U		
12	General	Relay 2 Control	0/1	1.001 switch	С		W		U		

Table 17

Relay outputs of the device are controlled with these objects.

7.2 User Menu tab

7.2.1 User Menu parameters

No	Name	Value	Description
1	Menu state feedback	Disable On request On request or on change On request or on cyclically	This parameter is used to give feedback on which menu page is opened. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value changes.
2	Period	3255s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
3	Manual operation menu	Disable / Enable	This parameter is used to allow manual operation.
4	Information menu	Disable / Enable	This parameter is used to allow accessibility of the "information" menu.
5	Emergency test menu	Disable / Enable	This parameter is used to allow accessibility of the "emergency test" menu.

7.2.2 User Menu objects

	Name	Function	Value	Туре	Fla				
No					С	R	w	т	U
13	User Menu	Menu State Feedback	0-255	20.* 1-byte	С	R		Т	

Table 19

This object is used to give feedback about which menu page is opened. Page numbers are given in the table below.

OFF	0
ENTRANCE	1
BALLAST CONTROL	2
GROUP CONTROL	3
PUBLICATION CONTROL	4
RELAY CONTROL	5
BALLAST REPLACEMENT CONTROL	6
DALI INSTALLATION CONTROL	7
TEST	8
IP ADDRESS INFORMATION	9
ETHERNET MAC BİLGİ	10
BRANCH BALLAST NUMBER INFORMATION	11
BRANCH CURRENT INFORMATION	12
KNX ADDRESS INFORMATION	13
KNX APPLICATION STATUS INFORMATION	14
DEVICE SOFTWARE VERSION INFORMATION	15
DEVICE OPERATING TEMPERATURE	16
INFORMATION	
LIST OF ERRORS	17
EMERGENCY LIGHTING	18

No	Name	Function				Flags						
			Value	Туре	с	R	w	т	U			
14	User Menu	Manual Operation Menu	0/1	1.003 enable	С		W		U			

Table 20

This object is used to allow manual operation.

	Name	Function	Value	Туре	Fla				
No					с	R	w	т	υ
14	User Menu	Information Menu	0/1	1.003 enable	С		W		U

Table 21

This object is used to allow accessibility of the "information" menu.



No	Name	Function	Value	Туре	Fla	ngs				
					С	R	w	Т	υ	
14	User Menu	Emergency Test Menu	0/1	1.003 enable	С		W		U	

This object is used to allow accessibility of the "emergency test" menu.

7.3 IP Settings tab

7.3.1 IP Settings parameters

No	Name	Value	Description
1	IP address assignment	DHCP / Fix	This parameter sets whether the IP address of the device is fixed or assigned.
2	IP address	xxx.xxx.xxx.xxx	This parameter allows the device to set a fixed IP address.
3	Subnet mask	xxx.xxx.xxx.xxx	This parameter allows the device to set a fixed Subnet mask.
4	Gateway address	xxx.xxx.xxx.xxx	This parameter allows the device to set a fixed Gateway address.
5	User password	0000-9999	This parameter allows the user to set the password used to access the web interface.
6	Admin password	0000-9999	This parameter allows the administrator to set the password used to access the web interface.

7.4 DALI Channel X tab

7.4.1 General parameters

No	Name	Value	Description
1	Label	X	This parameter gives a name to the DALI channel.
2	ECG control	Disable / Enable	ECG controls are activated with this parameter.
3	Group control	Disable / Enable	This parameter activates group controls.
4	Broadcast control	Disable / Enable	Broadcast controls are activated with this parameter. A new page opens for Broadcast control parameter settings.
5	Scene control	Disable / Enable	Scenario controls are activated with this parameter.
6	Emergency light control	Disable / Enable	Emergency lighting controls are activated with this parameter.
7	Automatic DALI device replacement	Disable / Enable	With this parameter, automatic replacement of DALI ballasts is activated.
8	Manual DALI device replacement	Disable / Enable	With this parameter, manual replacement of DALI devices is activated.
9	Burn-in mode	Disable / Enable	This parameter enables the Burn-in function for a ballast or group.
10	Burn-in mode remaining time	Disable / Enable	With this parameter, objects that can receive the remaining burn-in time of a ballast can be activated.
11	Panic mode	Disable / Enable	This parameter activates the panic mode. When this mode is activated, all groups and objects switch to the panic mode light value. They cannot be controlled individually.
12	Panic mode feedback	Disable On request On request or on change On request or on cyclically	This parameter activates the external monitoring of the operating status of the panic mode. This function is realized with object 24. On request: When this value is selected, the object must be read manually.
			On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes.

No	Name	Value	Description
			On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
13	Period	3255s	This parameter determines how many seconds intervals cyclically the information that the device is operational will be sent to the KNX bus.
14	Emergency fault	Disable / Enable	Panic mode is activated in case of errors in emergency situations.
15	Reason count	164	The number of errors that will occur for panic mode to be activated is determined.
16	Lamp fault	Disable / Enable	It is used to activate the panic mode in case of lamp failure.
17	Reason count	164	The number of errors that will occur for panic mode to be activated is determined.
18	ECG fault	Disable / Enable	It is used to activate the panic mode in case of ballast failures.
19	Reason count	164	The number of errors that will occur for panic mode to be activated is determined.
20	Night mode	Disable / Enable	This parameter enables night mode.
21	Night mode feedback	Disable On request On request or on change On request or on cyclically	This parameter activates the external monitoring of the operating status of the night mode. This function is realized with object 26. On request: When this value is selected, the
			object must be read manually.
			On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes.
			On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
22	Period	3255s	This parameter determines how many seconds intervals cyclically the information that the device is operational will be sent to the KNX bus.
23	ECG power line control	Disable / KNX object	This parameter activates the control of ballast supply voltages for energy saving.

No	Name	Value	Description
24	Number of zone	110	This parameter selects the number of zones.
25	Delay time	10600s	This parameter sets how long after the lighting levels of all ballasts in a zone are completely switched off, the supply voltage will be cut off.

7.4.2 General objects

No	Name	Function	Value	Туре	Fla				
					с	R	w	Т	υ
17	DALI Channel A General	Auto Device Replacement	0/1	1.010 start/stop	С		W		U

Table 25

This object is used to start or end automatic DALI ballast change.

No					Fla				
No	Name	Function	Value	Туре	С	R	w	Т	U
18	DALI Channel A General	Manual Device Replacement Short Address	063	5.* 8-bit unsigned value	С		W		U

Table 26

Manual DALI ballast change is started with this object.

No	Name	Function	Value	Туре	Fla				
					с	R	w	т	U
19	DALI Channel A General	Device Replacement Status	015	20.* 1-byte	С	R		Т	

Table 27

DALI ballast change status can be monitored with this object. The table below contains status value information.

STARTED	1
SEARCHING	2
CHANGING	3
STOPPED	4
SUCCESSFULLY COMPLETED	5
NO INSTALLATION ERROR	6
NO FAULTY BALLAST ERROR	7
MORE THAN ONE FAULTY BALLAST ERROR	8
THE REPLACEMENT PROCESS IS ALREADY	9
WORKING	
BALLAST ADDRESS ERROR	10
NEW BALLAST NOT FOUND ERROR	11
NEW BALLAST ADDRESSING ERROR	12
NEW BALLAST COMMUNICATION ERROR	13
NEW BALLAST UPDATE ERROR	14
WRONG TYPE OF NEW BALLAST	15

No	Name	Function	Value	Туре	Fla	ags				
					с	R	w	т	υ	
20	DALI Channel A General	Burn-in Mode	0/1	1.010 start/stop	С		W		U	

This object toggles the Burn-in function on and off.

No	Name	Function	Value	Туре	Fla	Flags				
					С	R	w	т	U	
21	DALI Channel A General	Burn-in Mode Remaining Time		7.006 time (min)	С	R		Τ		

Table 29

With this object, the remaining burn-in time can be measured in minutes.

No	Name			Туре	Fla	Flags				
		Function	Value		С	R	w	т	υ	
22	DALI Channel A General	Burn-in Mode Remaining Time Request	063	5.* 8-bit unsigned value	С		W		U	

Table 30

With this object the ballast address is sent to get the remaining burn-in time.

No	Name	Function	Value	Туре	Fla				
No					С	R	w	т	U
23	DALI Channel A General	Panic Mode	0/1	1.010 start/stop	С		W		U

Table 31

This object turns panic mode on and off.

No	Name	Function	Value	Туре	Fla				
No					С	R	w	т	U
24	DALI Channel A General	Panic Mode Feedback	0/1	1.010 start/stop	С	R		Т	

Table 32

Panic mode status is monitored with this object.

No	Name	Function	Value	Туре	Fla					
					с	R	w	т	υ	
25	DALI Channel A General	Night Mode	0/1	1.010 start/stop	С		W		U	

Table 33

This object turns night mode on and off.

No		_	_		Fla	lags			
	Name	Function	Value	Type	С	R	w	т	U
26	DALI Channel A General	Night Mode Feedback	0/1	1.010 start/stop	С	R		Τ	

Table 34

With this object, night mode status is monitored.



No					Flag	lags				
	Name	Function	Value	Туре	С	R	w	т	U	
28-37	DALI Channel A General	ECG Power Line Control Zone x	0/1	1.001 switch	С	R		Τ		

With this object, on/off status information is obtained for x zone.

7.4.3 Broadcast parameters

No	Name	Value	Description
1	Switch on brightness value	%0 (OFF) 100% Minimum value Maximum value Latest value Change via object	This parameter defines the brightness value that the DALI output will reach after the on command from the KNX line.
2	Switch off brightness value	%0 (OFF) 100% Minimum value Change via object	This parameter defines the brightness value that the DALI output will reach after the close command is received from the KNX line.
3	Fade time for switch on	Fixed value Change via object	This parameter is set as the time required to switch the lamp brightness from the current brightness value to the on state after receiving the on command from the KNX line. This time can be set with a fixed value or can be adjusted using an object.
4	Time	065535 s	This parameter is enabled when fade time for switch on parameter fixed value is selected and sets the fade time in seconds.
5	Object type	KNX time format 1s KNX time format 100ms DALI format [015]	This parameter is opened when the fade time for switch on parameter change via object is selected and the fade time determines the object type.
6	Fade time for switch off	Fixed value Change via object	This parameter is set as the time required to switch the lamp brightness from the current brightness value to the off state after receiving the off command from the KNX line. This time can be set with a fixed value or can be adjusted using an object.
7	Time	065535 s	This parameter is enabled when fade time for switch off parameter fixed value is selected and sets the fade time in seconds.
8	Object type	KNX time format 1 s KNX time format 100 ms DALI format [015]	This parameter is opened when the fade time for switch off parameter change via object is selected and the fade time determines the object type.
9	Fade time for relative dimming	Fixed value Change via object	This parameter is set as the time required to change the lamp brightness from the current brightness value to the target brightness after



No	Name	Value	Description
			receiving the brightness value from the KNX line.
			This time can be set with a fixed value or can be adjusted using an object.
10	Time	065535 s	This parameter is enabled when the fade time for relative dimming parameter fixed value is selected and sets the fade time in seconds.
11	Object type	KNX time format 1 s KNX time format 100 ms DALI format [015]	This parameter is opened when the fade time for relative dimming parameter change via object is selected and the fade time determines the object type.
12	Fade time for absolute brightness	Fixed value Change via object	This parameter is set as the time required to change the lamp brightness from the current brightness value to the target brightness after receiving the brightness value from the KNX line.
			This time can be set with a fixed value or can be adjusted using an object.
13	Time	065535 s	This parameter is enabled when fade time for absolute brightness parameter fixed value is selected and sets the fade time in seconds.
14	Object type	KNX time format 1 s KNX time format 100 ms DALI format [015]	This parameter is turned on when the fade time for absolute brightness parameter change via object is selected and the fade time determines the object type.
15	Allow switch on via dimming object	Disable / Enable	This parameter allows the brightness of the off lamp to be switched on and to reach the desired value.
16	Allow switch off via dimming object	Disable / Enable	With this parameter, the brightness of the on lamp is allowed to reach the desired off value.
17	Allow switch on via brightness object	Disable / Enable	This parameter allows the brightness of the off lamp to be switched on and to reach the desired value.
18	Allow switch off via brightness object	Disable / Enable	With this parameter, the brightness of the on lamp is allowed to reach the desired off value.
19	Color control	Disable Tunable White control	This parameter allows broadcast color control objects to be opened.

7.4.4 Broadcast objects

			_		Fla	ags			
No	Name	Function	Value	Туре	с	R	w	т	U
38	DALI Channel A Broadcast	Switching	0/1	1.001 switch	С		w		U

Table 37

With this object, on/off command can be sent to all ballasts on the DALI channel.

No					Fla	ags			
	Name	Function	Value	Туре	С	R	w	т	U
39	DALI Channel A Broadcast	Relative Dimming		3.007 dimming control	С		W		U

Table 38

With this object, a new brightness value is sent to all ballasts on DALI channels by increasing or decreasing the previous brightness value.

No					Fla	ags			
	Name	Function	Value	Туре	С	R	w	т	υ
40	DALI Channel A Broadcast	Absolute Brightness	0100	5.001 percentage (0100%)	С		W		U

Table 39

With this object, a brightness value in percent is sent to all ballasts on DALI channels.

No					Fla	ags			
	Name	Function	Value	Туре	С	R	w	т	U
41	DALI Channel A Broadcast	Switching On Brightness Value	0100	5.001 percentage (0100%)	с		W		U

Table 40

With this object, brightness values are sent to all ballasts on DALI channels after the on command.

No					Fla	ags			
	Name	Function	Value	Туре	С	R	w	т	υ
42	DALI Channel A Broadcast	Switching Off Brightness Value	0100	5.001 percentage (0100%)	с		w		U

Table 41

With this object, brightness values are sent to all ballasts on DALI channels after the shutdown command.



No					Fla	ags			
	Name	Function	Value	Туре	C R W	N T	υ		
43	DALI Channel A Broadcast	Fade Time For Switch On		7.005 time (s) 7.004 time (100 ms) 20.602 dali fade time	с		W		U

With this object, the time required to turn the current brightness on after the on command is received to the devices on the DALI channels is determined.

No					Fla	ngs			
	Name	Function	Value	Туре	С	R	w	v т v	U
44				7.005 time (s)			w t w		
	DALI Channel A Broadcast	Fade Time For Switch Off		7.004 time (100 ms)	С	1			U
				20.602 dali fade time					

Table 43

With this object, the time required to turn off the current brightness after the off command is sent to the devices on the DALI channels is determined.

No					Fla	Flags			ags			
	Name	Function	Value	Туре	С	R	w т <i>w</i>	т	U			
45				7.005 time (s)			а w т w					
	DALI Channel A Broadcast	Fade Time For Relative Dimming		7.004 time (100 ms)	С	W		U				
				20.602 dali fade time								

Table 44

With this object, after entering a brightness value to the devices on the DALI channels, the time to go from the current brightness to the target brightness is determined.

				()							
No	Name	Function	Value	Туре	С	R	w	т	U		
46	DALI Channel A Broadcast	Fade Time For Absolute Brightness		7.005 time (s) 7.004 time (100 ms) 20.602 dali fade time	с		W		U		

Table 45

With this object, after entering a brightness value to the devices on the DALI channels, the time to go from the current brightness to the target brightness is determined.

No	Name	Function	Value	Туре	Flags				
					С	R	w	т	U
48	DALI Channel A Broadcast	Color temperature value	100010000 K	7.600 absolute color temperature	С		W		U

Table 46

With this object, the color temperature value is sent to the color devices on the DALI channels.

7.4.5 ECGs/Groups tab

The parameters under this heading are used in the same sense for group and ballast. Objects are defined for ballast, but they fulfill the same function for the group. See the summary table for detailed object numbers and names.

7.4.5.1 **ECGs/Groups tab parameter**

No	Name	Value	Description		
1	ECG/Group x	Disable / Enable	With this parameter, ballast or group x is activated.		

Table 47

7.4.5.2 **ECG/Group**

7.4.5.2.1 General parameters

No	Name	Value	Description	
1	Operation Mode	Normal mode Staircase mode	This parameter selects the operating mode. Normal mode: With this mode, ECGs can be individually switched and brightness changed without restriction. Staircase mode: It can also be called staircase lighting mode. With this mode, the set value, such as the switching, dimming or brightness value, is automatically replaced by the off value after a changeable period of time. Lighting can be turned off immediately, at a set time or dimmed.	
2	Staircase time	565535 s	This parameter sets the duration of the "staircase" mode. After the last telegram received, the lights will turn off when the time set here expires.	
3	Staircase warning step	Disable / Enable	This parameter defines a new brightness or the same brightness value as additional time after the "staircase" time expires.	
4	Warning step brightness value	%0 (OFF) 100% Minimum value	This parameter determines the defined "warning step" brightness value.	
5	Warning step time	065535 s	This parameter determines the duration of the defined "warning step".	
6	Extend staircase time for repeated switch on	Disable Restart timer Extend timer up to max 2	With this parameter, the "staircase" time can be increased by the desired maximum numbe or the counter can be reset.	

No	Name	Value	Description
		Extend timer up to max 3 Extend timer up to max 4 Extend timer up to max 5	
7	Dimming curve	Logarithmic (DALI method) Linear (KNX method)	With this parameter, ECG checks can be done with two identical methods. Depending on these methods, the on and off times of the lamps connected to the ECGs vary.
8	Maximum brightness value	%0 (OFF) %100	This parameter specifies the selected maximum brightness.
9	Minimum brightness value	%0 (OFF) %100	This parameter specifies the selected minimum brightness.
10	Switch on brightness value	%0 (OFF) 100% Minimum value Maximum value Latest value Change via object	This parameter defines the brightness value that the DALI output will reach after the on command from the KNX line.
11	Switch off brightness value	%0 (OFF) 100% Minimum value Change via object	This parameter defines the brightness value that the DALI output will reach after the close command is received from the KNX line.
12	Fade time for switch on	Fixed value Change via object	This parameter is set as the time required to switch the lamp brightness from the current brightness value to the on state after receiving the on command from the KNX line. This time can be set with a fixed value or can be adjusted using an object.
13	Time	065535 s	This parameter is enabled when fade time for switch on parameter fixed value is selected and sets the fade time in seconds.
14	Object type	KNX time format 1 s KNX time format 100 ms DALI format [015]	This parameter is opened when the fade time for switch on parameter change via object is selected and the fade time determines the object type.
15	Fade time for switch off	Fixed value Change via object	This parameter is set as the time required to switch the lamp brightness from the current brightness value to the off state after receiving the off command from the KNX line This time can be set with a fixed value or can be adjusted using an object.
No	Name	Value	Description
----	---------------------------------------	--	---
16	Time	065535 s	This parameter is enabled when fade time for switch off parameter fixed value is selected and sets the fade time in seconds.
17	Object type	KNX time format 1 s KNX time format 100 ms DALI format [015]	This parameter is opened when the fade time for switch off parameter change via object is selected and the fade time determines the object type.
18	Fade time for relative dimming	Fixed value Change via object	This parameter is set as the time required to change the lamp brightness from the current brightness value to the target brightness after receiving the brightness value from the KNX line.
			This time can be set with a fixed value or can be adjusted using an object.
19	Time	065535 s	This parameter is enabled when the fade time for relative dimming parameter fixed value is selected and sets the fade time in seconds.
20	Object type	KNX time format 1 s KNX time format 100 ms DALI format [015]	This parameter is opened when the fade time for relative dimming parameter change via object is selected and the fade time determines the object type.
21	Fade time for absolute brightness	Fixed value Change via object	This parameter is set as the time required to change the lamp brightness from the current brightness value to the target brightness after receiving the brightness value from the KNX line.
			This time can be set with a fixed value or can be adjusted using an object.
22	Time	065535 s	This parameter is enabled when fade time for absolute brightness parameter fixed value is selected and sets the fade time in seconds.
23	Object type	KNX time format 1 s KNX time format 100 ms DALI format [015]	This parameter is turned on when the fade time for absolute brightness parameter change via object is selected and the fade time determines the object type.
24	Allow switch on via dimming object	Disable / Enable	This parameter allows the brightness of the off lamp to be switched on and to reach the desired value.
25	Allow switch off via dimming object	Disable / Enable	With this parameter, the brightness of the on lamp is allowed to reach the desired off value.
26	Allow switch on via brightness object	Disable / Enable	This parameter allows the brightness of the off lamp to be switched on and to reach the desired value.



No	Name	Value	Description
27	Allow switch off via brightness object	Disable / Enable	With this parameter, the brightness of the on lamp is allowed to reach the desired off value.

7.4.5.2.2 General objects

				_	Fla	ngs			
No	Name	Function	Value	Туре	с	R	w	т	υ
52	DALI Channel A ECG 1	Switching	0/1	1.001 switch	С		W		U

Table 49

With this object, on/off command can be sent to the ballast.

					Fla	ags			
No	Name	Function	Value	Туре	С	R	w	т	υ
53	DALI Channel A ECG 1	Relative Dimming		3.007 dimming control	С		W		U

Table 50

With this object, a new brightness value is sent to the ballast by increasing or decreasing the previous brightness value.

				F F		Flags				
No	Name	Function	Value	Туре	с	R	w	т	υ	
54	DALI Channel A ECG 1	Absolute Brightness	0100	5.001 percentage (0100%)	С		W		U	

Table 51

With this object, a brightness value in percent is sent to the ballast.

			_		Fla	ags			
No	Name	Function	Value	Туре	С	R	w	т	U
56	DALI Channel A ECG 1	Switching On Brightness Value	0100	5.001 percentage (0100%)	с		W		U

Table 52

With this object, the brightness value that the ballast will reach after the open command is sent.

					Fla	ags			
No	Name	Function	Value	Туре	С	R	w	т	υ
57	DALI Channel A ECG 1	Switching Off Brightness Value	0100	5.001 percentage (0100%)	С		W		U

Table 53

With this object, the brightness value that the ballast will reach after the close command is sent.

					Fla	igs			
No	Name	Function	Value	Туре	с	R	w	т	U
58	DALI Channel A ECG 1	Fade Time For Switch On		7.005 time (s) 7.004 time (100 ms) 20.602 dali fade time	с		W		υ

Table 54

With this object, the time required to turn the current brightness on after the turn on ballast command is set.

					Fla	Igs			
No	Name	Function	Value	Туре	С	R	w	т	υ
				7.005 time (s)					
59	DALI Channel A Broadcast	Fade Time For Switch Off		7.004 time (100 ms)	С		W		U
				20.602 dali fade time					

With this object, the time required to turn off the current brightness after the ballast off command is set.

					Fla	ags			
No	Name	Function	Value	Туре	С	R	w	т	υ
60	DALI Channel A Broadcast	Fade Time For Relative Dimming		7.005 time (s) 7.004 time (100 ms) 20.602 dali fade time	с		W		U

Table 56

With this object, after entering a brightness value in the ballast, the time from the current brightness to the target brightness is set.

					Fla	ngs			
No	Name	Function	Value	Туре	С	R	w	т	U
		Fada Tima Far Absoluta		7.005 time (s)					
61	DALI Channel A ECG 1	Price Time For Absolute		7.004 time (100 ms)	С		W		U
		Digitiess		20.602 dali fade time					

Table 57

With this object, after entering a brightness value in the ballast, the time from the current brightness to the target brightness is set.

7.4.5.2.3 Feedbacks parameter

No	Name	Value	Description
1	Switching value feedback	Disable On request On request or on change On request or on cyclically	This parameter determines the activation and operation of the switching feedback object. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value changes.
2	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
3	Brightness value feedback	Disable On request On request or on change On request or on cyclically	This parameter is used to activate the brightness feedback of the selected ECG. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
4	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
5	ECG fault feedback	Disable On request On request or on change On request or on cyclically	This parameter determines the activation and operation of the feedback object in case of an error on the ECGs. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value changes.
5	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.

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No	Name	Value	Description
6	Lamp fault feedback	Disable On request On request or on change On request or on cyclically	This parameter determines the activation and operation of the feedback object in case of a fault on the lamps. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes.
7	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
8	Status feedback	Disable On request On request or on change On request or on cyclically	This parameter determines the activation and operation of the ballast branch status information object. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes.
9	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.

7.4.5.2.4 Feedbacks objects

					Fla	ngs			
No	Name	Function	Value	Туре		R	w	т	U
62	DALI Channel A ECG 1	Switching Value Feedback	0/1	1.001 switch	С	R		Т	

Table 59

With this object, the switching feedback of the selected ECG is observed.

				_	Fla	ags			
No	Name	Function	Value	Туре		R	w	т	U
63	DALI Channel A ECG 1	Brightness Value Feedback	0100	5.004 percentage (0255%)	С	R		Т	

Table 60

With this object, the brightness feedback of the selected ECG is observed.

		_			Fla	ags			
No	Name	Function	Value	Туре		R	w	т	U
64	DALI Channel A ECG 1	ECG Fault Feedback	0/1	1.005 alarm	С	R		Τ	

Table 61

With this object, the feedback of an error on ECGs is observed.

					Fla	ags			
No	Name	Function	Value	Туре		R	w	т	U
65	DALI Channel A ECG 1	Lamp Fault Feedback	0/1	1.005 alarm	С	R		Τ	

Table 62

With this object, the feedback of a fault occurring on the lamps is observed.

No					Flags				
	Name	Function	Value	Туре		R	w	т	υ
66	DALI Channel A ECG 1	Status Feedback		7.001 pulses	С	R		Τ	

Table 63

With this object, dali general condition of the ballast is observed.

Bit	Description
0	"controlGearFailure" is TRUE?
1	"lampFailure" is TRUE?
2	"lampOn" is TRUE?
3	"limitError" is TRUE?
4	"fadeRunning" is TRUE?
5	"resetState" is TRUE?
6	"shortAddress" is MASK?
7	"powerCycleSeen" is TRUE?

7.4.5.2.5 Behaviors parameters

No	Name	Value	Description
1	Brightness value on ECG power recovery	%0 (OFF) 100% Minimum value Maximum value Latest value	This parameter determines the brightness value of the ECGs when the power is restored after a power failure.
2	Brightness value on DALI bus failure	%0 (OFF) 100% No reaction Minimum value Maximum value Latest value	This parameter determines the brightness value of the illuminations in case of a fault on the DALI line.
3	Brightness value on KNX bus failure	%0 (OFF) 100% No reaction Minimum value Maximum value Latest value	This parameter determines the brightness value of the illuminations in case of a fault on the KNX line.
4	Brightness value after ETS download	%0 (OFF) 100% No reaction Minimum value Maximum value Latest value	This parameter determines the brightness value of the lighting after the configuration has been sent from the ETS.

No	Name	Value	Description		
1	Forced mode	Disable / Enable	With this parameter forced mode feature usage and object is activated.		
2	Forced mode brightness value	%0 (OFF) 100% Minimum value Maximum value Latest value Change via object	This parameter determines the illumination level to be reached when forced mode is activated.		
3	Lock mode	Disable / Enable	With this parameter, the lock mode feature usage and object are activated.		
4	Burn-in mode	Disable / Enable	This parameter activates the burn-in mode feature usage and object.		
5	Burn-in time	565535 m	<i>This parameter sets the burn-in mode duration in minutes.</i>		
6	Burn-in mode feedback	Disable On request On request or on change On request or on cyclically	This parameter activates the burn-in mode information retrieval object and determines how it works. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically and at the same time the last value is cyclically printed on the KNX bus.		
7	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.		
8	Change burn-in time via object	Disable / Enable	With this parameter the burn-in time can be set to be changed with the object.		
9	Night mode	Disable / Enable	With this parameter, the night mode feature usage and object are activated.		
10	Automatic switch off time	065535 m	This parameter sets the duration of the night mode. After the last telegram received, the lights will turn off when the time set here expires.		
11	Night warning step	Disable / Enable	This parameter defines a new brightness or the same brightness value as additional time after the "automatic switch off" time expires.		

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No	Name	Value	Description
12	Warning step brightness value	%0 (OFF) 100% Minimum value	This parameter determines the defined "warning step" brightness value.
13	Warning step time	565535 s	This parameter determines the duration of the defined "warning step".
14	Extend automatic switch off time	Disable Restart timer Extend timer up to max 2 Extend timer up to max 3 Extend timer up to max 4 Extend timer up to max 5	With this parameter, the "automatic switch off time" can be increased to the desired maximum number or the counter can be reset.
15	Panic mode	Disable / Enable	With this parameter, panic mode feature usage and object are activated.
16	Panic mode brightness value	%0 (OFF) 100% No reaction Minimum value Maximum value Latest value	This parameter selects the illumination value to be reached when panic mode is activated.
17	Operation hour counter	Disable / Enable	<i>This parameter activates the "operation hour counter". It counts the duration of the ECG turned on.</i>
18	Operation hour limit	165535 h	This parameter sets the limit time in hours of the "operation hour counter" parameter. In this function, alarm information is received from the alarm object when the specified time is reached.
19	Operation hour feedback	Disable On request On request or on change On request or on cyclically	This parameter displays the "operation hour counter" value. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
20	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
21	ECG power line control	Disable / Enable	This parameter determines whether the ballast energy control will be active or not.

No	Name	Value	Description
22	Zone	Zone 1 Zone 10	This parameter determines which zone will control the energy of the ballast.

7.4.5.2.7 Function objects

No	Name Function		Value	Туре	Fla				
		Function			с	R	w	т	U
67	DALI Channel A ECG 1	Forced Mode	0: Off 1: On 2: Off 3: On	2.001 switch control	с		W		U

Table 67

This object enables or disables forced mode.

	Name Function Value Type		Fla	Flags					
No		Function	Value	Туре	с	R	w	т	U
68	DALI Channel A ECG 1	Forced Brightness Value	0100	5.001 percentage (0100%)	С		W		U

Table 68

With this object, forced mode brightness value is sent.

No	Name Function		Value	Туре	Flags					
		Function			с	R	w	т	υ	
69	DALI Channel A ECG 1	Lock Mode	0/1	1.003 enable	С		W	Т	U	

Table 69

With this object, lock mode can be activated or deactivated and its instantaneous value can be taken.

	Name	Function	Value	Туре	Fla				
No					С	R	w	т	U
70	DALI Channel A ECG 1	Burn-in Mode	0/1	1.010 start/stop	С		W		U

Table 70

This object is used to start or end the burn-in mode.

	Name Fu	Function	Value	Туре	Fla				
No					С	R	w	т	U
71	DALI Channel A ECG 1	Burn-in Mode Feedback	0/1	1.011 state	С	R		Т	

Table 71

With this object, burn-in mode instant status information can be obtained.



No				Fla					
	Name	Function	Value	Туре	с	R	w	т	υ
73	DALI Channel A ECG 1	Burn-in Mode Time	065535m	7.006 time (min)	С		W		U

With this object the burn-in mode time can be changed. In this case the counter is reset and counts from the beginning.

	Name	Function	Value	Туре	Fla				
No					С	R	w	т	U
74	DALI Channel A ECG 1	Burn-in Mode Remaining Time	065535m	7.006 time (min)	С	R		Т	

Table 73

This object can be used to get the remaining burn-in mode time.

	Name	Function		Туре	Fla				
No			Value		с	R	w	т	U
75	DALI Channel A ECG 1	Operation Hours Reset	0/1	1.015 reset	С		W		U

Table 74

This object resets the ballast run time counter.

	Name	Function	Value		Fla				
No				Туре		R	w	т	υ
76	DALI Channel A ECG 1	Operation Hours Life Time Alarm	0/1	1.005 alarm	с	R		т	

Table 75

Ballast operating time limit alarm is received with this object.

	Name Function Value Type		Fla						
No		Function	Value	Туре		R	w	т	υ
77	DALI Channel A ECG 1	Operation Hours Feedback	065535h	7.007 time (h)	С		W		U

Table 76

With this object, ballast operating time is taken in hours.

7.4.5.2.8	Color control parameters
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No	Name	Value	Description
1	Color control type	Disable Tunable white control	This parameter activates the color control.
2	Warmest color value	100010000 К	This parameter sets the warmest color value.
3	Coolest color value	100010000 К	This parameter sets the coldest color value.
4	Switch on color value	No reaction Fixed value Latest value	With this parameter, the color temperature value of the off-color ballast when it is turned on is determined.
5	Color temperature	1000.10000 K	This parameter appears when the upper parameter "fixed value" is selected and specifies the color temperature.
6	Fade time for absolute color	090 s	This parameter determines the time required to change from the current value to the corresponding value after a value is set in the "absolute color temperature" object.
7	Fade time for relative color	090 s	This parameter determines the time required to change from the current value to the related value after a value is set in the "relative color temperature" object.
8	Fade time for percentage color	090 s	This parameter determines the time required to change from the current value to the related value after a value is set in the "percentage color temperature" object.
9	Allow switch on via absolute color	Disable / Enable	This parameter allows the lamp brightness to be switched on or off with the value in "absolute color temperature".
10	Allow switch on via relative color	Disable / Enable	This parameter allows the lamp brightness to be switched on or off with the value in "relative color temperature".
11	Allow switch on via percentage color	Disable / Enable	This parameter allows the lamp brightness to be switched on or off with the value in "percentage color temperature".
12	Color value feedback	Disable On request On request or on change On request or on cyclically	This parameter activates the color value retrieval object and determines how it works. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and



No	Name	Value	Description
			at the same time the last value is cyclically printed on the KNX bus.
13	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
14	Color value on ECG power recovery	Fixed value Latest value	This parameter determines the color value of the ECGs when the power is restored after a power failure.
15	Color temperature	1000.10000 К	This parameter appears when the upper parameter "fixed value" is selected and specifies the color temperature.
16	Color value on DALI bus failure	No reaction Fixed value Latest value	This parameter determines the color value in case of a fault on the DALI line.
17	Color temperature	1000.10000 К	This parameter appears when the upper parameter "fixed value" is selected and specifies the color temperature.
18	Color value on KNX bus failure	No reaction Fixed value Latest value	This parameter determines the color value in case of a fault on the KNX line.
19	Color temperature	1000.10000 К	This parameter appears when the upper parameter "fixed value" is selected and specifies the color temperature.
20	Color value after ETS download	No reaction Fixed value Latest value	This parameter determines the color value after the configuration is sent from ETS.
21	Color temperature	1000.10000 K	This parameter appears when the upper parameter "fixed value" is selected and specifies the color temperature.

7.4.5.2.9 Color control objects

						Flags					
No	Name	Function	Value	Туре	с	R	w	т	U		
78	DALI Channel A ECG 1	Absolute Color Temperature Value	1000 10000К	7.600 absolute color temperature (K)	с		w		U		

Table 78

With this object the color temperature is set in kelvin.

				Туре		Flags					
No	Name	Function	Value			R	w	Т	U		
82	DALI Channel A ECG 1	Relative Color Temperature Value		3.007 dimming control	С		W		U		

Table 79

With this object the color temperature can be increased or decreased in percent.

			_	Туре		Flags					
No	Name	Function	Value			R	w	т	U		
86	DALI Channel A ECG 1	Percentage Color Temperature	%0100	5.001 percentage (0100%)	С		W		U		

Table 80

With this object the color temperature can be assigned to a value in hundred.

		Function	_	Туре		Flags					
No	Name		Value			R	w	т	U		
			1000	7.600 absolute color							
88	DALI Channel A ECG 1	Color Temperature Feedback	 10000K	temperature (K)	С	R		Т			

Table 81

With this object, color temperature information can be obtained in kelvin.

7.4.5.2.10 Emergency light control parameters

No	Name	Value	Description
1	Emergency control	Disable / Enable	This parameter activates the emergency lighting control.
2	Prolong time	0125 m	This parameter extends the emergency mode in minutes.
3	Emergency mode level adjustable	Disable / Enable	This parameter indicates that the emergency lighting level is adjustable.
4	Emergency mode brightness level	%0 (OFF) 100%	This parameter determines the emergency lighting level.
5	Auto emergency tests	Disable / Enable	This parameter indicates that automatic emergency tests are supported and activated.
6	Function test period	0255 d	This parameter specifies the function test period in days.
7	Duration test period	097 w	This parameter specifies the battery test period in weeks.
8	Partial duration test period	0255 d	This parameter specifies the partial battery test period in weeks.
10	Partial duration test time	1255 m	This parameter specifies the partial battery test time in minutes.
11	Converter status feedback	Disable On request On request or on change On request or on cyclically	This parameter determines the activation and mode of operation of the object that feedbacks the status of the emergency ballast. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
12	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
13	Battery status feedback	Disable On request On request or on change On request or on cyclically	This parameter determines the activation and mode of operation of the object that feedbacks the battery status of the emergency ballast. On request: When this value is selected, the object must be read manually. On request or on change: When this value is

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No	Name	Value	Description
			selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
14	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
15	Rest mode	Disable / Enable	With this parameter rest mode usage and object is activated.
16	Rest mode feedback	Disable On request On request or on change On request or on cyclically	This parameter determines how the rest mode state feedback object is activated and how it works. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value changes.
17	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
18	Inhibit mode	Disable / Enable	This parameter activates the inhibit mode usage and object.
19	Enter inhibit mode after a test	Disable / Enable	This parameter enables automatic entry into inhibit mode after any test.
20	Inhibit mode feedback	Disable On request On request or on change On request or on cyclically	This parameter determines the activation and mode of operation of the object that feedbacks the inhibit mode state. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.

No	Name	Value	Description
	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.

7.4.5.2.11 Emergency light control objects

			_	Туре		ags			
No	Name	Function	Value			R	w	т	U
92	DALI Channel A ECG 1	Emergency Lighting Test Control		20.611 converter test control	С		W		U

Table 83

Emergency test control is performed with this object. It is used in the following format.

Format:	1 octet: N ₈
octet nr.	1
field names	TestCtrl
encoding	ининини

Field names	Description	Encoding	Unit	Range	Resolution:
TestCtrl	Controls a test of a DALI converter. Furthermore it allows to stop a running test and to reset test flags.	0: Reserved, no effect 1: Start Function Test (FT) Acc. DALI Cmd. 227 2: Start Duration Test (DT) Acc. DALI Cmd. 228 3: Start Partial Duration Test (PDT) 4: Stop Test Acc. DALI Cmd 229 5: Reset Function Test Done Flag Acc. DALI Cmd. 230 6: Reset Duration Test Done Acc. DALI Cmd. 231 7-255: Reserved, no effect Note: Concurrent tests to the same DALI converter will be supported.	None	0 to 255	not applicable



No		Function		Туре		Flags					
	Name		Value			R	w	т	U		
94	DALI Channel A ECG 1	Emergency Lighting Converter Status		244.600 DALI converter status	С	R		т			

The status of the emergency ballast is monitored with this object. It is used in the following format.

Format:	2 octets: N ₄ B ₄ N ₂ N ₂ N ₂ N ₂ N ₂
octet nr.	2 _{MSB} 1 _{LSB}
field names	CM HS FP DP PP CF
encoding	ИЛИЛВВВВ ИЛИЛИЛИИ

Field names	Description	Encoding	Unit	Range	Resolution:
СМ	Converter Mode according to the DALI converter state machine	 Unknown Normal mode active, all OK Inhibit mode active Hardwired inhibit mode active Rest mode active Emergency mode active Extended emergency mode active FT in progress DT in progress PDT in progress 10 15 Paceprod 	None	{015}	not applicable
HS	Hardware Status	Bit 0: Hardwired Inhibit is active Bit 1: Hardwired switch is on Bit 2-3: reserved, must be 0	None	{0, 1 }	not applicable
FP	Function Test Pending	0: Unknown 1: No test pending 2: Test pending 3: Reserved Notes: The information about a running test is given in the Converter Mode field. The status "Unknown" may for instance occur at power- up.	None	{03}	not applicable
DP	Duration Test Pending	Duration Test Pending 0: Unknown 1: No test pending 2: Test pending 3: Reserved Notes: The information about a running test is given in the Converter Mode field. The status "Unknown" may for instance occur at power- up.	None	{03}	not applicable



No		Function	Value	Туре		Flags						
	Name					R	w	т	υ			
96	DALI Channel A ECG 1	Emergency Lighting Battery Status		246.600 Battery information	С	R		т				

With this object, battery status information of the emergency ballast is received. It is used in the following format.

Format:	2 octets: r ₄ B ₄ U ₈
octet nr.	2 _{MSB} 1 _{LSB}
field names	0000 BS BCL
encoding	r r r rBBBB NNNNNNN

Field names	Description	Encoding	Unit	Range	Resolution:
BS	Battery Status	Bit 0: Battery Failure Acc. DALI Cmd. 252 Bit 1: Battery Duration Failure Acc. DALI Cmd. 252 Bit 2: Battery Fully Charged Bit 3-7: Reserved, must be 0	None	{0, 1}	not applicable
BCL	Battery Charge Level Indicates the recent charge level	0: deep discharge point 254: fully charged 255: unknown or not supported According DALI Cmd. 241	None	{0255}	not applicable



No		Function	Value	Туре		Flags						
	Name					R	w	т	υ			
95	DALI Channel A ECG 1	Emergency Lighting Test Result		245.600 DALI converter test result	С	R		т				

Emergency test results are monitored with this object. It is used in the following format.

Format:	6 octets: N ₄ N ₄ N ₄ N ₂	N ₂ N ₂ N ₂ U ₁₆ U ₈				
octet nr.	6 _{MSB}	5	4	3	2	
field names	LTRF LTRD	LTRP 0000	SFSDSP00	LC	TR	
encoding	NNNNNNN	NNNNrrrr	NNNNN r r	uuuuuuuu	บบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบบ	
octet nr.	1 _{LSB}					
field names	LPDTR					
encoding	unnnnnn					

Field names	Description	Encoding	Unit	Range	Resolution:
LTRF	Last Test Result FT: Test result of last function test	 Unknown Passed in time Passed max delay exceeded Failed, test executed in time Failed, max delay exceeded Test manually stopped Seserved, do not use 	None	{015}	not applicable
LTRD	Last Test Result DT: Test result of last duration test	 Unknown Passed in time Passed max delay exceeded Failed, test executed in time Failed, max delay exceeded Test manually stopped 5: Reserved, do not use 	None	{015}	not applicable
LTRP	Last Test Result PDT: Test result of last partial duration test	Last Test Result PDT Test result of last partial duration test 0: Unknown 1: Passed in time 2: Passed max delay exceeded 3: Failed, test executed in time 4: Failed, max delay exceeded 5: Test manually stopped 6-15: Reserved, do not use	None	{015}	not applicable
SF	Start Method of Last FT	0: Unknown 1: Started automatically 2: Started by Gateway 3: Reserved Updated after a test has been finished.	None	{03}	not applicable

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Field names	Description	Encoding	Unit	Range	Resolution:
SD	Start Method of Last DT	Start Method of Last DT 0: Unknown 1: Started automatically 2: Started by Gateway 3: Reserved Updated after a test has been finished.	None	{03}	not applicable
SP	Start Method of Last PDT	Start Method of Last PDT 0: Unknown 1: Started automatically 2: Started by Gateway 3: Reserved Updated after a test has been finished.	None	{03}	not applicable
LDTR	Contains the battery discharge time as the result of the last successful duration test (DT). According DALI Cmd. 243	DPT 7.006 DPT_TimePeriodMin The max. value of 510 min shall be interpreted as 510 min or longer.	min	{0510}	not applicable
LPDTR	Last PDT Result Provides the remaining Battery Charge Level after the last PDT	0: deep discharge point 254: fully charged 255: unknown According DALI Cmd. 241	None	{0255}	not applicable



No		Function			Flags					
	Name		Value	Туре		R	w	т	υ	
97	DALI Channel A ECG 1	Emergency Lighting Rest Mode	0/1	1.003 enable	С		W		U	

This object enables or disables rest mode.

No	Name	Function	Value		Flags					
				Туре		R	w	т	υ	
98	DALI Channel A ECG 1	Emergency Lighting Rest Mode Feedback	0/1	1.003 enable	С	R		Т		

Table 88

Rest mode feedback is received with this object.

					Fla	ags			
No	Name	Function	Value	Туре	с	R	w	т	U
99	DALI Channel A ECG 1	Emergency Lighting Inhibit Mode	0/1	1.003 enable	С		W		U

Table 89

This object enables or disables inhibit mode.

			_		Fla	ags			
No	Name	Function	Value	Туре	С	R	w	т	υ
100	DALI Channel A ECG 1	Emergency Lighting Inhibit Mode Feedback	0/1	1.003 enable	С	R		Т	

Table 90

Inhibit mode feedback is received with this object.

7.4.5.3 **ECG X**

7.4.5.3.1 ECG X parameters

No	Name	Value	Description
1	Label		This parameter assigns a label to the ballast.
2	Device type	Standard ECG Emergency ECG (non-switchable) Emergency ECG (switchable) Color ECG	This parameter selects the type of ballast.
3	Control type	Individually control Single group control	This parameter selects the control mode of the ballast.
4	General settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
5	Feedbacks settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
6	Behaviors settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
7	Functions settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
8	Color control settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
9	Emergency control settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.

7.4.5.4 **Group X**

No	Name	Value	Description
1	Label		This parameter assigns a label to the group.
2	General settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
3	Feedbacks settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
4	Behaviors settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
5	Functions settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
6	Color control settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.
7	Emergency control settings	Apply from template Individual	Settings related to this parameter can be retrieved from the template or assigned individually.

7.4.6 Scenes tab

7.4.6.1 Scenes tab parameters

No	Name	Value	Description
1	Scene x	Disable / Enable	This parameter activates scene x.

Table 93

7.4.6.2 Scenes tab objects

			_		Fla	ags			
No	Name	Function	Value	Туре	С	R	w	т	U
3972	DALI Channel A Scene	Control		18.001 scene control	С		W		U

Table 94

Scenario control is done with this object.

7.4.6.3 Scene X

7.4.6.3.1 Scene X parameters

No	Name	Value	Description
1	Label		With this parameter the scenario can be given a label.
2	Link to KNX scene number	164	This parameter determines the number with which the scenario will be triggered from the control object.
3	Overwrite on download	Disable / Enable	With this parameter, it is determined whether the scenario values will change during ets loading.
4	Learn function	Disable / Enable	This parameter enables the scenario values to be updated with the "learn" command from the control object.
5	Fade time	065535 s	This parameter determines the time to switch to the lighting levels specified in the scenario.
6	ECG/Group X brightness value	No reaction Fixed value	This parameter determines whether X ballast/group is included in the scenario.
7	Brightness value	%0 (OFF) 100%	<i>This parameter determines the illumination value.</i>
8	ECG/Group X color value	No reaction Fixed value	This parameter determines whether X ballast/group is included in the scenario.

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No	Name	Value	Description
9	Color type	Tunable white control	This parameter determines the color control type.
10	Color value		This parameter determines the color value.

7.4.7 Emergency light tab

7.4.7.1 Emergency light tab parameters

No	Name	Value	Description
1	Addressed test control	Disable / Enable	This parameter enables the emergency test control and object to be activated.
2	Addressed test result	Disable On request On request or on change On request or on cyclically	With this parameter, emergency test results can be obtained addressable. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.

Table 96

7.4.7.2 Emergency light tab objects

					Fla	ngs			
No	Name	Function	Value	Туре	с	R	w	т	υ
4006	DALI Channel A Emergency Light Control	Addressed Test Control		7.001 pulses	с		W		U



This object is used for addressed emergency test control. It is used in the following format. Format definition

Format:	2 octets: r ₅ N ₃ r ₂ U ₈				
octet nr.	2 _{MSB} 1 _{LSB}				
field names	00000 Test 00 DALI e 00 DALI Address				
encoding					
	-				
Field names	Description	Encoding	Unit	Range	Resolution:
Field names - Test Type	Description Type of converter test	Encoding 0 = Stop Test 1 = Start Function Test 2 = Start Partial duration Test 3 = Start Duration Test 4-7 = reserved	Unit None	Range {07}	Resolution: not applicable
Field names - Test Type - DALI	Description Type of converter test DALI Short Address	Encoding 0 = Stop Test 1 = Start Function Test 2 = Start Partial duration Test 3 = Start Duration Test 4-7 = reserved See note	Unit None None	Range {07} {063}	Resolution: not applicable not



			_		Fla	Flags C R W			Flags		
No	Name	Function	Value	Туре	с				υ		
4007	DALI Channel A Emergency Light Control	Addressed Test Result		7.001 pulses	с	R		т			

Emergency test results can be monitored with this object. It is used in the following format. Format definition

Format:	16-Bit: B ₃ N ₂ N ₃ B ₁ r ₁ U ₆
octet nr.	2 _{MSB} 1 _{LSB}
field names	c I m s Test e 00 DALI Address
encoding	BBNNNNN BrUUUUUU

Field names	Description	Encoding	Unit	Range	Resolution:
- C	Emergency converter failure	0 = ok	None	{0, 1}	not
		1 = Converter failure			applicable
- 1	Lamp failure	0 = ok	None	{0, 1}	not
		1 = Lamp failure		-	applicable
- m	Current test given by Test Type	0 = Automatic test	None	{0, 1}	not
	was started manually	1 = Manually triggered			applicable
		test			
- S	Status of the test given in Test	0 = Completed / Idle	None	{03}	not
	Туре	1 = Pending			applicable
		2 = Running			
		3 = Aborted			
 Test Type 	Type of converter test	0 = None	None	{07}	not
		1 = Function Test			applicable
		2 = Partial duration Test			
		3 = Duration Test4,5,6 =			
		reserved			
		7 = invalid ¹			
- DALI	DALI Short Address	See note	None	{063}	not
Address				-	applicable

7.4.8 Feedbacks tab

7.4.8.1 Feedbacks tab parameters

No	Name	Value	Description
1	Central switching feedback	Disable On request On request or on change On request or on cyclically	With this parameter, the lighting status of the ballasts can be taken on and off. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically and at the same time the last value is cyclically printed on the KNX bus.
2	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
3	Object behavior	If all DALI devices are switched on If defined DALI devices are switched on If at least one DALI device is switched on	This parameter determines how the object will behave.
4	Value	164	This parameter determines the number of ballasts.
5	Central brightness feedback	Disable On request On request or on change On request or on cyclically	With this parameter, the illumination levels of the ballasts can be obtained in percentage. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
6	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
7	Object behavior	Highest brightness value Average brightness value Lowest brightness value	This parameter determines how the object will behave.
8	Send value while dimming action	Disable / Enable	This parameter enables sending the current value when switching between lighting levels.

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No	Name	Value	Description
9	Interval	565535 s	This parameter determines how often the current values will give information in seconds.
10	Addressed switching feedback	Disable On request On request or on change On request or on cyclically	With this parameter, the lighting levels of the ballast or group can be taken on and off. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
11	Period	3255s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
12	Addressed brightness feedback	Disable On request On request or on change On request or on cyclically	With this parameter, the lighting levels of the ballast or group can be obtained in percentages. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.
13	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
14	Combined switching feedback	Disable On request On request or on change On request or on cyclically	With this parameter, lighting information of all ballasts and groups can be obtained with a single object in terms of on-off. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.

No	Name	Value	Description
15	Period	3255s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.
16	Central operation hour feedback	Disable / Enable	With this parameter, you can get the information that any ballast's operating hour alarm has been triggered.

7.4.8.2 Feedbacks tab objects

					Flags C R W				
No	Name	Function	Value	Туре	CR		w	т	U
4010	DALI Channel A Feedback	Central Switching Feedback	0/1	1.001 switch	С	R		Τ	

Table 100

With this object, the on-off status of ballasts can be monitored conditionally.

No		_				Flags						
	Name	Function	Value	Туре	С	: R W Т U	W T	U				
4011	DALI Channel A Feedback	Central Brightness Feedback	%0 (Off) %100	5.001 percentage (0100%)	с	R		т				

Table 101

With this object, the lighting level information of the ballasts can be monitored conditionally.

					Flags				
No	Name	Function	Value	Туре		R	w	т	υ
4012	DALI Channel A Feedback	Addressed Switching Feedback		5.* 8-bit unsigned value	С	R		т	

Table 102

With this object, the information of the last switched ballast or group can be retrieved with its address. It is used in the following format.

Format:					
octet nr.	1 _{LSB}				
field names encoding	BBUUUUUU				
Field names	Description	Encoding	Unit	Range	Resolution:
- S	Switching Status	0 = Off 1 = On	None	{0, 1}	
- g/s	Group / Short	1 = Group Addr. 0 = Short Addr.	None	{0, 1}	
- DALI	DALI Group or Short Address	See note	None	{015}	

- g/s

- DALI

Address

Group / Short

DALI Group or Short Address



					Fla	ags			
No	Name Function Value	Value	Туре	С	R	w	т	υ	
4014	DALI Channel A Feedback	Addressed Brightness Feedback		5.* 8-bit unsigned value	С	R		Т	

Table 103

With this object, the last changed lighting level information of a ballast or group can be retrieved with its address. It is used in the following format.

Format:	2 octets: U ₈ B ₂ U ₆				
octet nr.	2 _{MSB} 1 _{LSB}				
field names	Brightness Level Status r/g DALI w s Address				
encoding	ИЧИЧИЧИ ВВИЧИЧИИ				
	•				
Field names	s Description	Encoding	Unit	Range	Resolution:
- Brightness	Current Brightness Level Status	0 = Off	%	{0100}	~0,4%
Level Status	;	1 = min. 255 = max.			
- r/w	Read / Write	1 = request 0 = answer	None	{0, 1}	not applicable

No	Nama	Function	Value	Туре	Flags				
	Name				С	R	w	т	U
4014	DALI Channel A Feedback	Combined Switching Feedback		10 bytes	с	R		Т	

1 = Group Addr.

0 = Short Addr.

See note

None{0, 1}

lone

0...15}

0

.63}

not

not

applicable

applicable

Table 104

With this object, you can get the lighting status of all ballasts and groups as on and off. It is used in the following format.

Byte	10	9	8	7	6	5	4	3	2	1
Info	Group	Group	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG
	(16-9)	(8-1)	(64-57)	(56-49)	(48-41)	(40-33)	(32-25)	(24-17)	(16-9)	(8-1)

		Function	Value	Туре		Flags				
No	Name					R	w	т	U	
4014	DALI Channel A Feedback	Central Operation Hour Feedback	0/1	1.005 alarm	с	R		Т		

Table 105

With this object, you can get alarm information when the operating hours of any ballast expires.

7.4.9 Faults tab

7.4.9.1 Faults tab parameters

No	Name	Value	Description				
1	Acknowledgement fault messages	Disable / Enable	With this parameter, the resetting of errors is set to be done by triggering with the object.				
2	Disable fault messages	Disable / Enable	This parameter activates the object that can disable the update of error objects.				
3	Show address of faulty ECGs	Disable / Enable	This parameter activates the objects for which an incorrect ballast address can be observed.				
4	Show address of faulty groups	Disable / Enable	With this parameter, objects with incorrect group address are activated.				
5	Central ECG fault	Disable On request On request or on change On request or on cyclically	With this parameter, the object that can receive information as an alarm when any ballast fails is activated. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.				
6	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.				
7	Central lamp fault	Disable On request On request or on change On request or on cyclically	With this parameter, the object that can receive information as an alarm when a ballast lamp fails is activated. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value changes.				
8	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.				
9	Number of ECG fault	Disable On request	This parameter activates the object that can receive the total number of faulty ballasts.				

No	Name	Value	Description				
		On request or on change On request or on cyclically	On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.				
10	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.				
11	Number of lamp fault	Disable On request On request or on change On request or on cyclically	With this parameter, the object that can receive the total number of lamp faulty ballasts is activated. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value changes.				
12	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.				
13	Addressed DALI fault	Disable On request On request or on change On request or on cyclically	With this parameter, if there is a fault in any ballast or group, the object whose address can be used to get information is activated. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value changes.				
14	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.				
15	Combined DALI channel faults	Disable On request	With this parameter, the object that can receive certain errors occurring in the channel together is activated.				
NoNameValueDescriptionOn request or on change On request or on cyclicallyOn request: When this value is su object must be read manually. On request or on change: When this selected, the object can be read r at the same time the last value is selected, the object can be read r at the same time the last value is selected, the object can be read r at the same time the last value is selected, the object can be read r at the same time the last value is printed on the KNX bus.16Period3255 sThis parameter determines how r intervals the messages to be sent bus will be sent cyclically.17Combined ECG faultDisable On request or on change On request or on cyclically.With this parameter, the object t on request or on change On request or on change.18Period3255 sThis parameter determines how r intervals the messages to be sent bus will be sent cyclically.18Period3255 sThis parameter, the object t on request or on cyclically.18Period3255 sThis parameter determines how r intervals the messages to be sent bus will be sent cyclically.							
---	---------------------	---	---	--	--		
		<i>On request or on change On request or on cyclically</i>	On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.				
16	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.				
17	Combined ECG fault	Disable On request On request or on change On request or on cyclically	With this parameter, the object that can receive all faulty ballasts together is activated. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.				
18	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.				
19	Combined lamp fault	Disable On request On request or on change On request or on cyclically	This parameter activates the object that can be used with all lamp faulty ballasts. On request: When this value is selected, the object must be read manually. On request or on change: When this value is selected, the object can be read manually and at the same time the last value is printed on the KNX bus when its value changes. On request or on cyclically: When this value is selected, the object can be read manually and at the same time the last value is cyclically printed on the KNX bus.				
20	Period	3255 s	This parameter determines how many seconds intervals the messages to be sent to the KNX bus will be sent cyclically.				

7.4.9.2 Faults tab objects

No	Name	Function	Value	Туре	Fla				
					с	R	w	Т	U
4018	DALI Channel A Fault	Acknowledge Fault Messages	0/1	1.016 acknowledge	С		w		U

Table 107

This object triggers the reset of channel error objects.

No	Name	Function	Value	Туре	Fla	ags			
					С	R	w	т	U
4019	DALI Channel A Fault	Disable Fault Messages	0/1	1.003 enable	С		W		U

Table 108

With this object, the update of error objects in the channel can be disabled.

No	Name	Function	Value	Туре	Fla				
					с	R	w	т	U
4020	DALI Channel A Fault	Show Address of Faulty ECGs	063 address 255 no error	5.010 counter pulses(0255)	с	R		т	

Table 109

With this object, faulty ballasts in the channel can be observed in sequence. The "Next/Previous" object is used to trigger.

No	Name	Function	Value	Туре	Fla				
					С	R	w	т	U
4021	DALI Channel A Fault	Show Address of Next/Previous Faulty ECG	0/1	1.008 up/down	С		w		U

Table 110

This object triggers the switching between faulty objects and receives information from the error tracking object.

No	Name	Function	Value	Туре	Fla				
					с	R	w	т	υ
4022	DALI Channel A Fault	Show Address of Faulty Groups	015 address 255 no error	5.010 counter pulses(0255)	с	R		Т	

Table 111

With this object, groups of faults in the channel can be observed in sequence. The "Next/Previous" object is used to trigger.



No	Name	Function	Value	Туре	Fla	ags				
					С	R	w	т	υ	
4023	DALI Channel A Fault	Show Address of Next/Previous Faulty Group	0/1	1.008 up/down	с		W		U	

This object triggers the switching between faulty objects and receives information from the error tracking object.

No	Name	Function	Value	Туре	Fla				
					с	R	w	т	U
4024	DALI Channel A Fault	Central ECG Fault	0/1	1.005 alarm	С	R		Т	

Table 113

This object is used to determine whether there is any faulty ballast in the channel.

No	Name	e Function	Value	Туре	Fla				
					с	R	w	т	υ
4025	DALI Channel A Fault	Central ECG Fault	0/1	1.005 alarm	С	R		Т	

Table 114

With this object, information is obtained whether there is any faulty ballast in the channel.

No	Name	e Function	Value	Туре	Fla				
					с	R	w	т	U
4026	DALI Channel A Fault	Number of ECG Fault	064	5.010 counter pulses (0255)	С	R		Т	

Table 115

With this object, the number of faulty ballasts in the channel is retrieved.

No	Name	Function	Value	Туре	Fla				
					с	R	w	т	U
4027	DALI Channel A Fault	Number of Lamp Fault	064	5.010 counter pulses (0255)	С	R		Т	

Table 116

With this object the number of faulty ballasts in the channel is taken.



No	Name	ne Function	Value	Туре	Fla	ags				
					с	R	w	т	υ	
4028	DALI Channel A Fault	Addressed DALI Fault		237.600 dali diagnostic	С	R		Τ		

With this object, the last ballast or lamp faulted ballast or group is retrieved with address information. It is used in the following format.

	-					
Format:	2 octe	ets: B10U6				
octet nr		2 _{MSB}	1 LSB			
	b15 b1	14 b13 b12 b11 b10 b9 b8 b7 b	06 b5 b4 b3 b2 b1 b	0		
field names	rr	r r CEBFLF RR	Al Addr			
encoding	ВВ	B B B B B B B B B	B U6	7		
DDT.				_		
<u>FDT.</u>						
Datapoir	nt Types	\$				
ID:	Nam	<u>e:</u>				<u>Use:</u>
237.600	DPT_	DALI_Control_Gear_Diagnostic				Lighting
Bit	Abbr.	Field name	Encoding	Range	Uni	t Resol.
b ₀ to b ₅	Addr	AI = 0: DALI Device Address	U ₆	0 to 63	none	e 1
		AI = 1: DALI Group Address	U6 0 to 15		none 1	
		This shall contain the DALI Dev value of the field AI, for which the	ice Address or the DAL ne diagnostic information	I Group Ad	dress	, according the
be	AI	Address Indicator	0: Device Address 1: Group Address	{0,1}	non	e n/a
		This field shall indicate whether Device Address (1) or a DALI G	the address contained roup Address (0).	in the field	Addr	contains a DALI
b7	RR	Read or Response	0: Response or spontaneous	{0,1}	non	e n/a
			sending			
		This field shall indicate whether	this data is		-	
		 a response to a read required 	uest or a spontaneous	sending (ou	itput),	or
h.	IE	- a read request (input)		(0.1)		
D8	LF	Lamp Failure	1: error	{0,1}	none	e n/a
		This shall signal whether or not	there is a failure of the	connected	lamp	
ba	BF	Ballast Failure	0: no error 1: error	{0,1}	none	e na
		This shall signal whether or not gear.	there is an internal dev	vice failure i	n the	DALI control
b10	CE	Convertor Error ²⁵⁾	0: no error 1: error	{0,1}	non	e na
		This field shall indicate whether	or not there is a conve	rtor error.		•
b11 to b15	r	These bits are reserved for futu	re use and shall be 0			



				_	Flags		S		
No	Name	Function	Value	Туре		R	w	т	U
4029	DALI Channel A Fault	Combined DALI Channel Faults		5.010 counter pulses (0255)	С	R		Т	

With this object, the status of errors on the DALI channel is monitored. It is used in the following format.

Bit	Field name	
b0	ECG/Lamp	0: No any ballast with ecg or lamp fault
	Failure	1: Has at least one ballast with ecg or lamp fault
b1	Bus overloaded	0: No error
		1: Error
b2	Bus overvoltage	0: No error
		1: Error
b3	Bus shortcircuit	0: No error
		1: Error
b4	Reserved	0
b5	Reserved	0
b6	Reserved	0
b7	Reserved	0

No			_	Туре		Flags				
	Name	Function	Value			R	w	т	υ	
4030	DALI Channel A Feedback	Combined ECG Fault		10 bytes	С	R		Т		

Table 119

With this object, information about all faulty ballasts and groups can be obtained. It is used in the following format.

Byte	10	9	8	7	6	5	4	3	2	1
Info	Group	Group	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG
	(16-9)	(8-1)	(64-57)	(56-49)	(48-41)	(40-33)	(32-25)	(24-17)	(16-9)	(8-1)

No					Flags				
	Name	Function	Value	Туре		R	w	т	υ
4031	DALI Channel A Feedback	Combined Lamp Fault		10 bytes	С	R		Т	

Table 120

With this object, information of all lamp faulty ballasts and groups can be obtained. It is used in the following format.

Byte	10	9	8	7	6	5	4	3	2	1
Info	Group	Group	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG
	(16-9)	(8-1)	(64-57)	(56-49)	(48-41)	(40-33)	(32-25)	(24-17)	(16-9)	(8-1)

8 User menu



No	Label	Use	Description
L1	А	A Channel LED	This LED indicates that the menu on the device display will be applied for channel A
L2	В	B Channel LED	This LED indicates that the menu on the device display will be applied for channel B
L3	MENU	Menu LED	This LED indicates that the device menu is active
L4	STATUS	Status LED	This LED indicates 2 states by illuminating with 2 different colors with a period of 1 second Green: The device works in active state Red: The device does not work in active state
L5	IP LINK	IP LED	This LED indicates 2 states with 2 different colors Green: IP Traffic Red: Ethernet cable plugged in
L6	KNX PROG	KNX LED	This LED indicates KNX status information Period blinking: No KNX line Fixed on: Device in KNX address identification mode
B1		Left button	This button is used for menu navigation
B2	SET	Enter/Confirm button	This button is used for menu navigation and confirmation
B3		Right button	This button is used for menu navigation
B4	ESC	Exit/Cancel button	This button is used for menu navigation and canceling

No	Label	Use	Description		
B5	KNX PROG	KNX button	This button puts the device in KNX address identification mode		
D1	8 . 8 . 8 .	Display	This screen is used for user menu and information		