

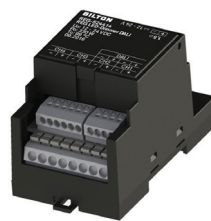
# BILTON

## BILTON LED-Dimmer DALI Manual



Symbolfoto

SXT-24414



REG-S24414



S-24414

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## 1 GENERAL

The **BILTON DALI LED-Dimmer** is a bus-capable LED dimmer and serves to control LED light fittings with 12-24VDC.

The device has four independent constant voltage outputs (CV), which are controlled via the DALI bus.

The device is designed for operating multi-channel LED lighting in order to realise coloured lighting.

The standard DALI functions are possible.

### 1.1 Safety

Safety information:

The operating manual is a component of the product and must be read carefully before use and must be available at all times.

General information:

The BILTON DALI LED-Dimmer is safely designed and under normal conditions does not represent a danger, however there are dangers during installation, which is why the device may only be installed by qualified staff. The BILTON DALI LED-Dimmer is a device in protection class III. BILTON is not liable for the operation of incorrect LED modules and lighting.

Correct use:

The BILTON DALI LED-Dimmer serves the operation of LED lamps and LED strips with 12-24 VDC at home.

It must not be used with other loads. The stated maximum values must not be exceeded.

Particular care during maintenance and repair:

Disconnect the device from the power supply and replace, if damaged, with an equivalent device.

In principle, the device is maintenance-free.

#### ! WARNING

Do not extend or modify the device.

It must be ensured that the voltages on the primary side correspond to the SELV conditions. It must be ensured that the connected lighting is designed for the maximum current.

Do not open the device.

There are sensitive electronics inside the device, which in the worst case could be destroyed if touched and may lead to a risk of fire.

## 1.2 Description of the device DALI LED-Dimmer BASIC

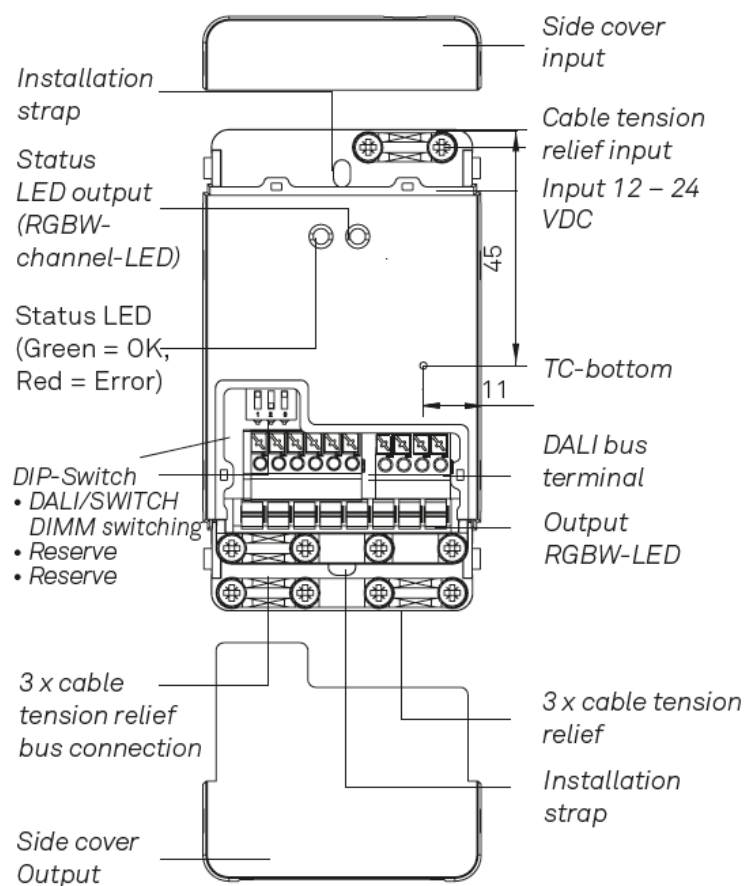


Figure 1: Description of the device  
DALI LED-Dimmer BASIC

## 1.2.1 Device connection

1. Connect LED (COM+)
  - // RGB
  - // RGBW
  - // RGB + W
  - // Up to 4 W
2. Connect DALI bus
3. Connect power supply (12-24 VDC)

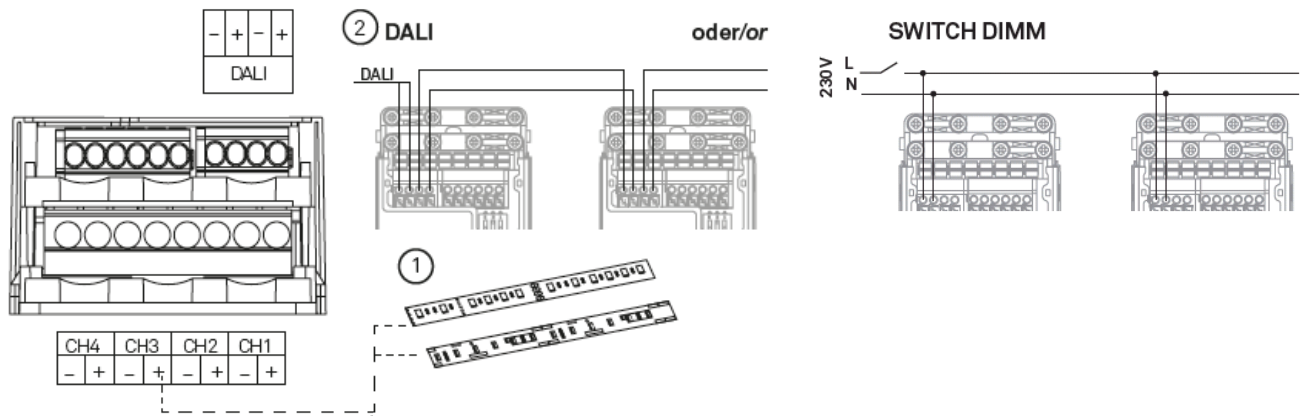


Figure 2: Outputs

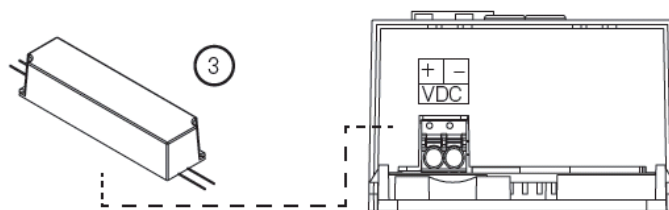


Figure 3: Power supply connection

4. Fit cable strain relief

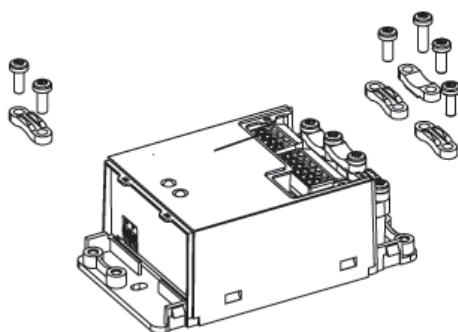


Figure 4: Cable strain relief

## 1.2.2 Technical data

Power supply	DALI operating voltage:	11.5...22.5V DC
	DALI power consumption:	Maximum 2mA
	Power supply for outputs: Max. input voltage:	12-24V DC $\pm 10\%$ , 30 VDC
Outputs	Output power consumption:	10 A (load-dependent (max. 10A/channel & max. 10A/device))
	Pulse width modulated outputs voltage-controlled:	PWM Frequency 600Hz Dimming range 0-100%
Connections	DALI:	Spring balancer Single wire 0.25-1.5 mm <sup>2</sup>
	Infeed for load current circuit:	Spring balancer Single wire 0.75-1.5 mm <sup>2</sup>
	Outputs:	Spring balancer Single wire 0.75-2.5 mm <sup>2</sup> Max. cable length 10m
Safety devices	Reverse polarity protection	YES (input side)
	Over-temperature protection	YES
	Overload protection	YES
Installation instructions	Location:	Only for indoor use
	Cooling:	Sufficient cooling must be ensured in order to remain in the DALI actuator temperature range
Temperature range	Operation:	-5°C ... +45°C
	Storage:	-20°C ... +70°C
Casing	Material	PA black
	Flame resistance	V0
Protection class		IP20
Lifespan		45 000 hrs
Weight		98.5g
Total Dimensions	L x W x H in mm	95 x 53 x 33
Max. casing temp. at +45°C	TC	99°C
EMC according to	EN55015 / EN 61547	YES
Product safety according to	EN 61347-1 / EN 61347-2-13	YES

## 1.2.3 Assembly

The device is suitable for wall and ceiling installation. It is fastened with two screws to the two installation straps (installation screws are not included in the delivery).

It must be ensured that the LED dimmer is not installed directly next to a heat source and that there is sufficient air circulation (minimum distance 20cm).

Access for operation and replacement of the device must be ensured.

Maximum cable length to the LED modules must not exceed 10m.

## 1.2.4 Specific operating modes

### 1.2.4.1 Behaviour after bus voltage failure

The device is inactive and cannot be controlled. The "SYSTEM FAILURE LEVEL" value is then at the outputs.

### 1.2.4.2 Behaviour after bus voltage restoration

The device can be controlled via the DALI bus again.

### 1.2.4.3 Behaviour after failure of the 12 - 24V DC power supply

The device does not react to control commands and the LEDs are off.

### 1.2.4.4 Behaviour after restoration of the 12 - 24V DC power supply

Switch on the outputs with the set value "POWER ON LEVEL".

## 1.3 Description of the device DALI LED-Dimmer REG

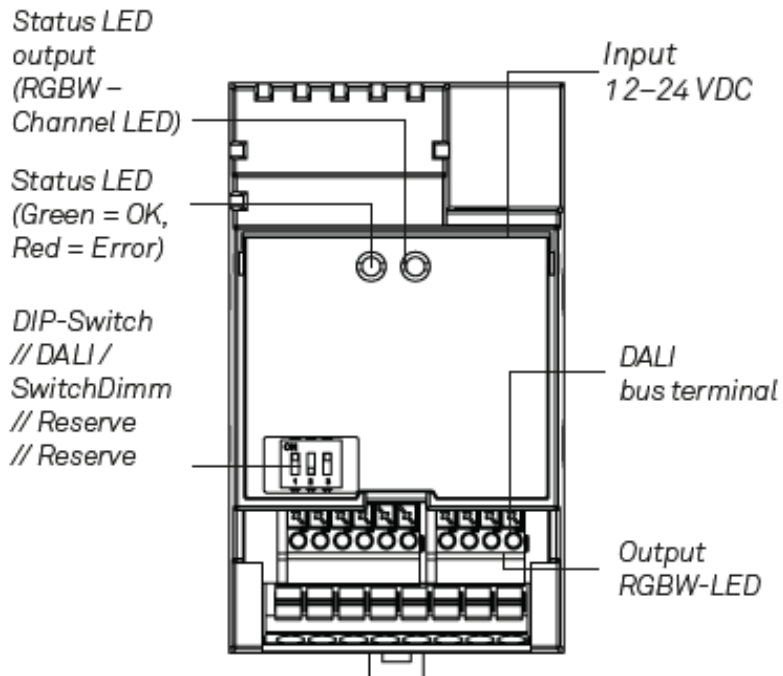


Figure 5: Description of the device  
DALI LED-Dimmer REG



## 1.3.1 Device connection

1. Connect LED (COM+)
  - // RGB
  - // RGBW
  - // RGB + W
  - // Up to 4 W
2. Connect DALI bus
3. Connect power supply (12-24 VDC)

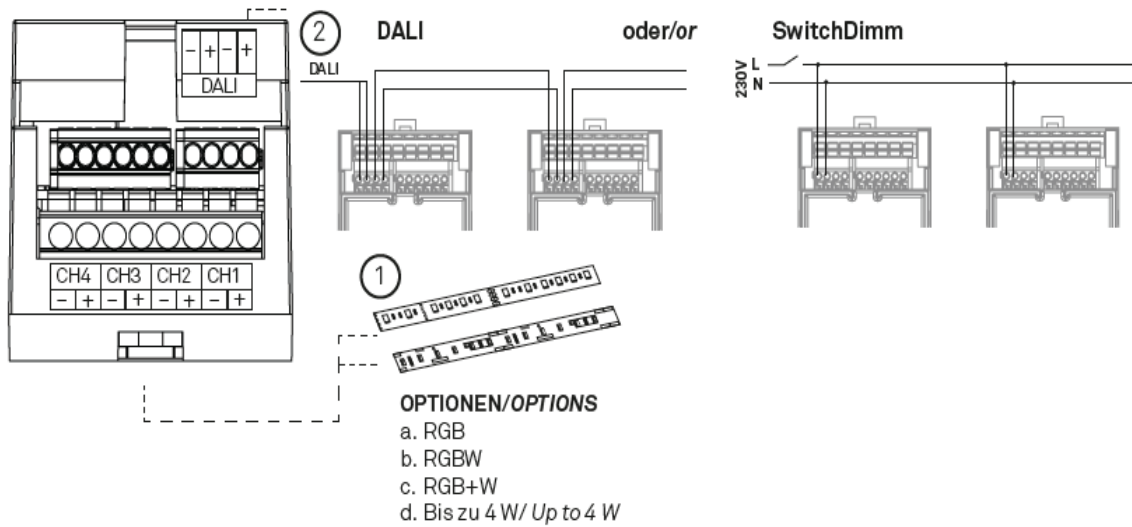


Figure 6: Outputs

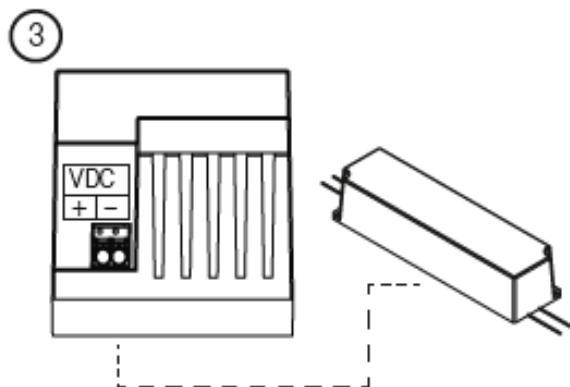


Figure 7: Power supply connection

## 1.3.2 Technical data

Power supply	DALI operating voltage:	11.5...22.5V DC
	DALI power consumption:	Maximum 2mA
	Power supply for outputs: Max. input voltage:	12-24V DC $\pm 10\%$ , 30V DC
Outputs	Output power consumption:	10 A (load-dependent (max. 14A/device multichannel: 4x3.5A max. 10A/device single channel))
	Pulse width modulated outputs voltage-controlled:	PWM Frequency 600Hz Dimming range 0-100%
Connections	DALI:	Spring balancer Single wire 0.25-1.5 mm <sup>2</sup>
	Infeed for load current circuit:	Spring balancer Single wire 0.75-1.5 mm <sup>2</sup>
	Outputs:	Spring balancer Single wire 0.75-2.5 mm <sup>2</sup> Max. cable length 10m
Safety devices	Reverse polarity protection	YES (input side)
	Over-temperature protection	YES
	Overload protection	YES
Installation instructions	Location:	Only for indoor use
	Cooling:	Sufficient cooling must be ensured in order to remain in the DALI actuator temperature range
Temperature range	Operation:	-5°C ... +45°C
	Storage:	-20°C ... +70°C
Casing	Material	PA black
	Flame resistance	V0
Protection class		IP20
Lifespan		45,000 hrs
Weight		90 g
Total Dimensions	LxWxH in mm	90 x 52 x 59 mm
Max. casing temp. at +45°C	TC	99°C
EMC according to	EN55015 / EN 61547	YES
Product safety according to	EN 61347-1 / EN 61347-2-13	YES

## 1.3.3 Assembly

The device is suitable for top hat rail assembly in a switch of distribution cabinet.

It is fixed with an assembly clip and guide on the top hat rail.

It must be ensured that the LED dimmer is not installed directly next to a heat source and that there is sufficient air circulation (minimum distance 20cm).

Access for operation and replacement of the device must be ensured.

Maximum cable length to the LED modules must not exceed 10m.

## 1.3.4 Specific operating modes

### 1.3.4.1 Behaviour after bus voltage failure

The device is inactive and cannot be controlled. The "SYSTEM FAILURE LEVEL" value is then at the outputs.

### 1.3.4.2 Behaviour after bus voltage restoration

The device can be controlled via the DALI bus again.

### 1.3.4.3 Behaviour after failure of the 12 - 24V DC power supply

The device does not react to control commands and the LEDs are off.

### 1.3.4.4 Behaviour after restoration of the 12 - 24V DC power supply

Switch on the outputs with the set value "POWER ON LEVEL".

## 1.4 Description of the device DALI LED-Dimmer SXT

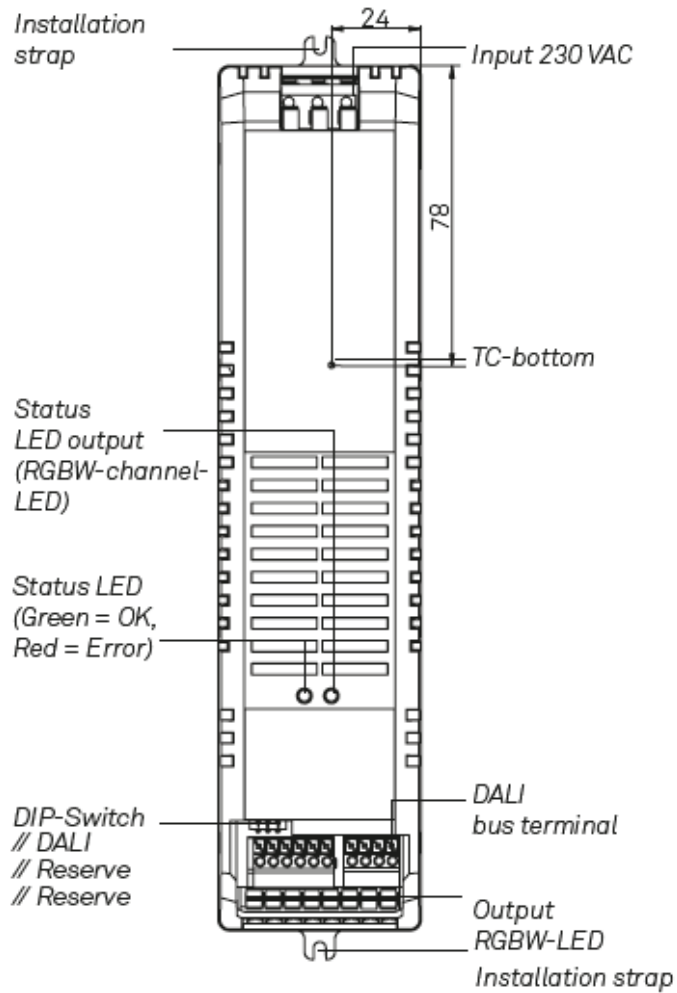


Figure 8: Description of the device DALI LED-Dimmer SXT

## 1.4.1 Device connection

1. Connect LED (COM+)
  - // RGB
  - // RGBW
  - // RGB + W
  - // Up to 4 W
2. Connect DALI bus
3. Connect power supply (230VAC)

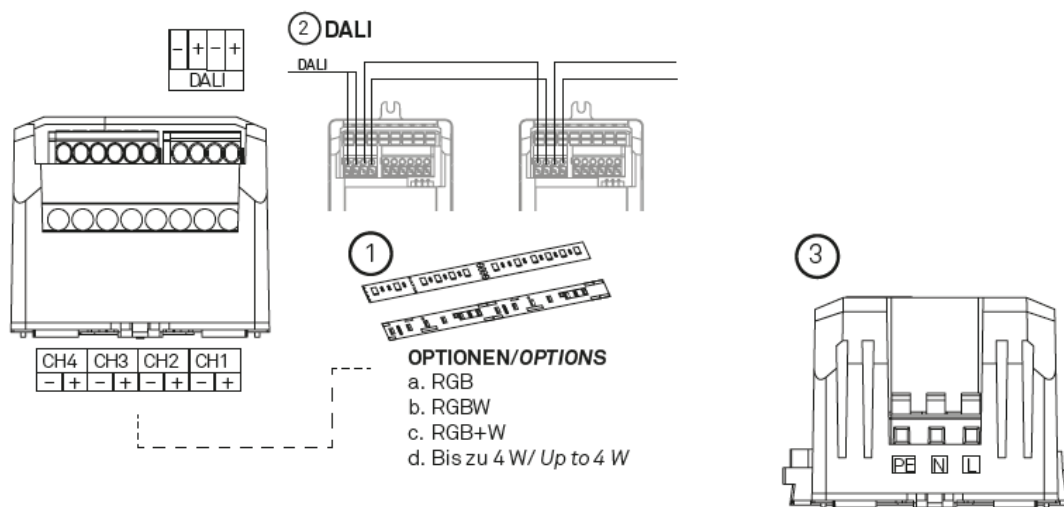


Figure 9: Output / power supply connections

## 1.4.2 Technical data

Power supply	DALI operating voltage:	11.5...22.5V DC
	DALI power consumption:	Maximum 2mA
Outputs	Power supply for outputs:	24V DC (device-internal),
	Max. input voltage:	230V AC $\pm 10\%$
	Output power consumption:	4 A (load-dependent (max. 4A/channel & max. 4A/device))
	Pulse width modulated outputs voltage-controlled:	PWM Frequency 600Hz Dimming range 0-100%
Connections	DALI:	Spring balancer Single wire 0.25-1.5 mm <sup>2</sup>
	Infeed for load current circuit:	Spring balancer Single wire 0.75-1.5 mm <sup>2</sup>
	Outputs:	Spring balancer Single wire 0.75-2.5 mm <sup>2</sup> Max. cable length 10m
Safety devices	Reverse polarity protection	YES (input side)
	Over-temperature protection	YES
	Overload protection	YES
Installation instructions	Location:	Only for indoor use
	Cooling:	Sufficient cooling must be ensured in order to remain in the DALI actuator temperature range
Temperature range	Operation:	-5°C ... +45°C
	Storage:	-20°C ... +70°C
Casing	Material	PC black
	Flame resistance	V0
Protection class		IP20
Lifespan		45000h
Weight		351.2g
Total Dimensions	L x W x H in mm	226 x 53 x 45

Max. casing temp. at +45°C	TC	70°C
EMC according to	EN55015 / EN61547	YES
Product safety according to	EN61347-1 / EN61347-2-13	YES

#### 1.4.3 Assembly

The device is suitable for wall and ceiling installation. It is fastened with two screws to the two installation straps (installation screws are not included in the delivery).

It must be ensured that the LED dimmer is not installed directly next to a heat source and that there is sufficient air circulation (minimum distance 20cm).

Access for operation and replacement of the device must be ensured.

Maximum cable length to the LED modules must not exceed 10m.

## 1.4.4 Specific operating modes

### 1.4.4.1 Behaviour after bus voltage failure

The device is inactive and cannot be controlled. The "SYSTEM FAILURE LEVEL" value is then at the outputs.

### 1.4.4.2 Behaviour after bus voltage restoration

The device can be controlled via the DALI bus again.

### 1.4.4.3 Behaviour after failure of the 12 - 24V DC power supply

The device does not react to control commands and the LEDs are off.

### 1.4.4.4 Behaviour after restoration of the 12 - 24V DC power supply

Switch on the outputs with the set value "POWER ON LEVEL".

## 1.5 Status LED

Col-our	Flash code	Error code
Green	Lights	No error
Red	Lights	-
Red	1x flashing	Initialisation error
Red	2x flashing	Over-temperature fault
Red	3x flashing	Over-temperature switch-off
Red	4x flashing	Overload
Red	6x flashing	DALI bus error
Red	7x flashing	Wrong interface: Check Dip switch and connections and restart device.
Red	8x flashing	Unknown/several errors

## 1.6 DIP Switch

No.	Description	Factory setting
1	DALI	ON = DALI
2	Reserve	ON
3	Reserve	OFF



## 1.7 Exclusion of liability

The technical information in these Handling instructions correspond to the status at the time of printing and have been worked out to the best of our knowledge. However, errors and printing errors are reserved. The information serves to describe the article in more detail, however these are not guaranteed features according to the Austrian Civil Code (ABGB) unless expressly stated as such. Make sure that you always use the latest version of the Handling instructions.

The device is maintenance-free. Damage due to transportation, etc. must immediately be reported to the manufacturer. Guarantee claims shall lapse in the event of independent repairs or opening of the device. The guarantee shall only apply in the case of demonstrably correct assembly. Installation and removal work is excluded from the liability. The guarantee is regulated within the framework of the statutory conditions. Further information is available on [www.biltongroup.com](http://www.biltongroup.com)

## 2 SOFTWARE DESCRIPTION

Various programs can be used to address and control a DALI device. For example, the "masterCONFIGURATOR" from Tridonic or "DALI-Cockpit" from Luntone.

## 2.1 Overview of functions

Com-mand number	Comment designation	Description/Function
999	DIRECT ARC POWER	Smooth adjustable brightness
0	OFF	Immediate off
1	UP	Increasing brightness to the maximum level
2	DOWN	Decreasing brightness to the minimum level
3	STEP UP	Increasing brightness by one step
4	STEP DOWN	Decreasing brightness by one step
5	RECALL MAX LEVEL	Immediately setting the maximum
6	RECALL MIN LEVEL	Immediately setting the minimum
7	STEP DOWN AND OFF	Decreasing brightness by one step; If brightness is already at the minimum, it is switched off
8	ON AND STEP UP	Increasing brightness by one step; If it is switched off, the minimum is switched on
9	ENABLE DAPC SEQUENCE	Allow DAPC sequence
10	GOTO LAST ACTIVE LEVEL	Last set brightness is set
11	Cmd11 RE-SERVED	Reserved command for possible future DALI changes
12	Cmd12 RE-SERVED	Reserved command for possible future DALI changes
13	Cmd13 RE-SERVED	Reserved command for possible future DALI changes
14	Cmd14 RE-SERVED	Reserved command for possible future DALI changes

15	Cmd15 RE-SERVED	Reserved command for possible future DALI changes
16	GOTO SCENE 0	Scene 0 is set
17	GOTO SCENE 1	Scene 1 is set
18	GOTO SCENE 2	Scene 2 is set
19	GOTO SCENE 3	Scene 3 is set
20	GOTO SCENE 4	Scene 4 is set
21	GOTO SCENE 5	Scene 5 is set
22	GOTO SCENE 6	Scene 6 is set
23	GOTO SCENE 7	Scene 7 is set
24	GOTO SCENE 8	Scene 8 is set
25	GOTO SCENE 9	Scene 9 is set
26	GOTO SCENE 10	Scene 10 is set
27	GOTO SCENE 11	Scene 11 is set
28	GOTO SCENE 12	Scene 12 is set
29	GOTO SCENE 13	Scene 13 is set
30	GOTO SCENE 14	Scene 14 is set
31	GOTO SCENE 15	Scene 15 is set
32	RESET	Standard values are set.
33	STORE ACTUAL LEVEL IN THE DTR	Current light output is saved in the DTR
34	Cmd34 RE-SERVED	Reserved command for possible future DALI changes
35	Cmd35 RE-SERVED	Reserved command for possible future DALI changes
36	Cmd36 RE-SERVED	Reserved command for possible future DALI changes
37	Cmd37 RE-SERVED	Reserved command for possible future DALI changes
38	Cmd38 RE-SERVED	Reserved command for possible future DALI changes

39	Cmd39 RE-SERVED	Reserved command for possible future DALI changes
40	Cmd40 RE-SERVED	Reserved command for possible future DALI changes
41	Cmd41 RE-SERVED	Reserved command for possible future DALI changes
42	STORE THE DTR AS MAX LEVEL	Value in DTR is set as the maximum value
43	STORE THE DTR AS MIN LEVEL	Value in DTR is set as the minimum value
44	STORE THE DTR AS SYS FAIL LEVEL	Value in DTR is set as the system fault value
45	STORE THE DTR AS PWR ON LEVEL	Value in DTR is set as the "Power On" value
46	STORE THE DTR AS FADE TIME	Value in DTR is set as the fade time
47	STORE THE DTR AS FADE RATE	Value in DTR is set as the fade rate
48	Cmd48 RE-SERVED	Reserved command for possible future DALI changes
49	Cmd49 RE-SERVED	Reserved command for possible future DALI changes
50	Cmd50 RE-SERVED	Reserved command for possible future DALI changes
51	Cmd51 RE-SERVED	Reserved command for possible future DALI changes
52	Cmd52 RE-SERVED	Reserved command for possible future DALI changes
53	Cmd53 RE-SERVED	Reserved command for possible future DALI changes
54	Cmd54 RE-SERVED	Reserved command for possible future DALI changes
55	Cmd55 RE-SERVED	Reserved command for possible future DALI changes

56	Cmd56 RE-SERVED	Reserved command for possible future DALI changes
57	Cmd57 RE-SERVED	Reserved command for possible future DALI changes
58	Cmd58 RE-SERVED	Reserved command for possible future DALI changes
59	Cmd59 RE-SERVED	Reserved command for possible future DALI changes
60	Cmd60 RE-SERVED	Reserved command for possible future DALI changes
61	Cmd61 RE-SERVED	Reserved command for possible future DALI changes
62	Cmd62 RE-SERVED	Reserved command for possible future DALI changes
63	Cmd63 RE-SERVED	Reserved command for possible future DALI changes
64	STORE THE DTR AS SCENE 0	Save value in the DTR as level for Scene 0
65	STORE THE DTR AS SCENE 1	Save value in the DTR as level for Scene 1
66	STORE THE DTR AS SCENE 2	Save value in the DTR as level for Scene 2
67	STORE THE DTR AS SCENE 3	Save value in the DTR as level for Scene 3
68	STORE THE DTR AS SCENE 4	Save value in the DTR as level for Scene 4
69	STORE THE DTR AS SCENE 5	Save value in the DTR as level for Scene 5
70	STORE THE DTR AS SCENE 6	Save value in the DTR as level for Scene 6
71	STORE THE DTR AS SCENE 7	Save value in the DTR as level for Scene 7
72	STORE THE DTR AS SCENE 8	Save value in the DTR as level for Scene 8
73	STORE THE DTR AS SCENE 9	Save value in the DTR as level for Scene 9
74	STORE THE DTR AS SCENE 10	Save value in the DTR as level for Scene 10

75	STORE THE DTR AS SCENE 11	Save value in the DTR as level for Scene 11
76	STORE THE DTR AS SCENE 12	Save value in the DTR as level for Scene 12
77	STORE THE DTR AS SCENE 13	Save value in the DTR as level for Scene 13
78	STORE THE DTR AS SCENE 14	Save value in the DTR as level for Scene 14
79	STORE THE DTR AS SCENE 15	Save value in the DTR as level for Scene 15
80	REMOVE FROM SCENE 0	Remove device from scene 0
81	REMOVE FROM SCENE 1	Remove device from scene 1
82	REMOVE FROM SCENE 2	Remove device from scene 2
83	REMOVE FROM SCENE 3	Remove device from scene 3
84	REMOVE FROM SCENE 4	Remove device from scene 4
85	REMOVE FROM SCENE 5	Remove device from scene 5
86	REMOVE FROM SCENE 6	Remove device from scene 6
87	REMOVE FROM SCENE 7	Remove device from scene 7
88	REMOVE FROM SCENE 8	Remove device from scene 8
89	REMOVE FROM SCENE 9	Remove device from scene 9
90	REMOVE FROM SCENE 10	Remove device from scene 10
91	REMOVE FROM SCENE 11	Remove device from scene 11
92	REMOVE FROM SCENE 12	Remove device from scene 12
93	REMOVE FROM SCENE 13	Remove device from scene 13
94	REMOVE FROM SCENE 14	Remove device from scene 14
95	REMOVE FROM SCENE 15	Remove device from scene 15
96	ADD TO GROUP 0	Add device to group 0
97	ADD TO GROUP 1	Add device to group 1

98	ADD TO GROUP 2	Add device to group 2
99	ADD TO GROUP 3	Add device to group 3
100	ADD TO GROUP 4	Add device to group 4
101	ADD TO GROUP 5	Add device to group 5
102	ADD TO GROUP 6	Add device to group 6
103	ADD TO GROUP 7	Add device to group 7
104	ADD TO GROUP 8	Add device to group 8
105	ADD TO GROUP 9	Add device to group 9
106	ADD TO GROUP 10	Add device to group 10
107	ADD TO GROUP 11	Add device to group 11
108	ADD TO GROUP 12	Add device to group 12
109	ADD TO GROUP 13	Add device to group 13
110	ADD TO GROUP 14	Add device to group 14
111	ADD TO GROUP 15	Add device to group 15
112	REMOVE FROM GROUP 0	Remove device from group 0
113	REMOVE FROM GROUP 1	Remove device from group 1
114	REMOVE FROM GROUP 2	Remove device from group 2
115	REMOVE FROM GROUP 3	Remove device from group 3
116	REMOVE FROM GROUP 4	Remove device from group 4
117	REMOVE FROM GROUP 5	Remove device from group 5
118	REMOVE FROM GROUP 6	Remove device from group 6
119	REMOVE FROM GROUP 7	Remove device from group 7
120	REMOVE FROM GROUP 8	Remove device from group 8

121	REMOVE FROM GROUP 9	Remove device from group 9
122	REMOVE FROM GROUP 10	Remove device from group 10
123	REMOVE FROM GROUP 11	Remove device from group 11
124	REMOVE FROM GROUP 12	Remove device from group 12
125	REMOVE FROM GROUP 13	Remove device from group 13
126	REMOVE FROM GROUP 14	Remove device from group 14
127	REMOVE FROM GROUP 15	Remove device from group 15
128	STORE DTR AS SHORT ADDRESS	Save value in the DTR as short address
129	ENABLE WRITE MEMORY	Allow writing to memory
130	Cmd130 RE-SERVED	Reserved command for possible future DALI changes
131	Cmd131 RE-SERVED	Reserved command for possible future DALI changes
132	Cmd132 RE-SERVED	Reserved command for possible future DALI changes
133	Cmd133 RE-SERVED	Reserved command for possible future DALI changes
134	Cmd134 RE-SERVED	Reserved command for possible future DALI changes
135	Cmd135 RE-SERVED	Reserved command for possible future DALI changes
136	Cmd136 RE-SERVED	Reserved command for possible future DALI changes
137	Cmd137 RE-SERVED	Reserved command for possible future DALI changes
138	Cmd138 RE-SERVED	Reserved command for possible future DALI changes



139	Cmd139 RE-SERVED	Reserved command for possible future DALI changes
140	Cmd140 RE-SERVED	Reserved command for possible future DALI changes
141	Cmd141 RE-SERVED	Reserved command for possible future DALI changes
142	Cmd142 RE-SERVED	Reserved command for possible future DALI changes
143	Cmd143 RE-SERVED	Reserved command for possible future DALI changes
144	QUERY STATUS	Status query (8 defined Bits)
145	QUERY CONTROL GEAR	Query: If the device communication-ready?
146	QUERY LAMP FAILURE	Query: Light fault?
147	QUERY LAMP POWER ON	Query: Light on?
148	QUERY LIMIT ERROR	Query: Light power above MAX or below MIN?
149	QUERY RESET STATE	Query: Device in reset?
150	QUERY MISSING SHORT ADDRESS	Query: Does the device have a short address?
151	QUERY VERSION NUMBER	Query: Version number
152	QUERY CONTENT DTR	Query DTR
153	QUERY DEVICE TYPE	Query device type
154	QUERY PHYSICAL MINIMUM LEVEL	Query minimum value
155	QUERY POWER FAILURE	Query whether the light power has been reset or otherwise controlled
156	QUERY CONTENT DTR1	Query contents of DTR1
157	QUERY CONTENT DTR2	Query contents of DTR2

158	Cmd158 RE-SERVED	Reserved command for possible future DALI changes
159	Cmd159 RE-SERVED	Reserved command for possible future DALI changes
160	QUERY ACTUAL LEVEL	Query current light power
161	QUERY MAX LEVEL	Query maximum
162	QUERY MIN LEVEL	Query minimum
163	QUERY POWER ON LEVEL	Query "Power ON" value
164	QUERY SYSTEM FAILURE LEVEL	Query system fault value
165	QUERY FADE TIME / FADE RATE	Query crossfade time/ crossfade speed
166	Cmd166 RE-SERVED	Reserved command for possible future DALI changes
167	Cmd167 RE-SERVED	Reserved command for possible future DALI changes
168	Cmd168 RE-SERVED	Reserved command for possible future DALI changes
169	Cmd169 RE-SERVED	Reserved command for possible future DALI changes
170	Cmd170 RE-SERVED	Reserved command for possible future DALI changes
171	Cmd171 RE-SERVED	Reserved command for possible future DALI changes
172	Cmd172 RE-SERVED	Reserved command for possible future DALI changes
173	Cmd173 RE-SERVED	Reserved command for possible future DALI changes
174	Cmd174 RE-SERVED	Reserved command for possible future DALI changes

175	Cmd175 RE-SERVED	Reserved command for possible future DALI changes
176	QUERY SCENE 0 LEVEL	Query light power in Scene 0
177	QUERY SCENE 1 LEVEL	Query light power in Scene 1
178	QUERY SCENE 2 LEVEL	Query light power in Scene 2
179	QUERY SCENE 3 LEVEL	Query light power in Scene 3
180	QUERY SCENE 4 LEVEL	Query light power in Scene 4
181	QUERY SCENE 5 LEVEL	Query light power in Scene 5
182	QUERY SCENE 6 LEVEL	Query light power in Scene 6
183	QUERY SCENE 7 LEVEL	Query light power in Scene 7
184	QUERY SCENE 8 LEVEL	Query light power in Scene 8
185	QUERY SCENE 9 LEVEL	Query light power in Scene 9
186	QUERY SCENE 10 LEVEL	Query light power in Scene 10
187	QUERY SCENE 11 LEVEL	Query light power in Scene 11
188	QUERY SCENE 12 LEVEL	Query light power in Scene 12
189	QUERY SCENE 13 LEVEL	Query light power in Scene 13
190	QUERY SCENE 14 LEVEL	Query light power in Scene 14
191	QUERY SCENE 15 LEVEL	Query light power in Scene 15
192	QUERY GROUPS 0-7	Query group membership 0-7
193	QUERY GROUPS 8-15	Query group membership 8-15
194	QUERY RANDOM ADDRESS (H)	Query upper 8 bits of the random address
195	QUERY RANDOM ADDRESS (M)	Query middle 8 bits of the random address

196	QUERY RANDOM ADDRESS (L)	Query lower 8 bits of the random address
197	Cmd197 RESERVED	Reserved command for possible future DALI changes
198	Cmd198 RESERVED	Reserved command for possible future DALI changes
199	Cmd199 RESERVED	Reserved command for possible future DALI changes
200	Cmd200 RESERVED	Reserved command for possible future DALI changes
201	Cmd201 RESERVED	Reserved command for possible future DALI changes
202	Cmd202 RESERVED	Reserved command for possible future DALI changes
203	Cmd203 RESERVED	Reserved command for possible future DALI changes
204	Cmd204 RESERVED	Reserved command for possible future DALI changes
205	Cmd205 RESERVED	Reserved command for possible future DALI changes
206	Cmd206 RESERVED	Reserved command for possible future DALI changes
207	Cmd207 RESERVED	Reserved command for possible future DALI changes
208	Cmd208 RESERVED	Reserved command for possible future DALI changes
209	Cmd209 RESERVED	Reserved command for possible future DALI changes
210	Cmd210 RESERVED	Reserved command for possible future DALI changes

211	Cmd211 RE-SERVED	Reserved command for possible future DALI changes
212	Cmd212 RE-SERVED	Reserved command for possible future DALI changes
213	Cmd213 RE-SERVED	Reserved command for possible future DALI changes
214	Cmd214 RE-SERVED	Reserved command for possible future DALI changes
215	Cmd215 RE-SERVED	Reserved command for possible future DALI changes
216	Cmd216 RE-SERVED	Reserved command for possible future DALI changes
217	Cmd217 RE-SERVED	Reserved command for possible future DALI changes
218	Cmd218 RE-SERVED	Reserved command for possible future DALI changes
219	Cmd219 RE-SERVED	Reserved command for possible future DALI changes
220	Cmd220 RE-SERVED	Reserved command for possible future DALI changes
221	Cmd221 RE-SERVED	Reserved command for possible future DALI changes
222	Cmd222 RE-SERVED	Reserved command for possible future DALI changes
223	Cmd223 RE-SERVED	Reserved command for possible future DALI changes
224	QUERY APP EXT Cmd224	-
225	QUERY APP EXT Cmd225	-
226	QUERY APP EXT Cmd226	-
227	QUERY APP EXT Cmd227	-

228	QUERY APP EXT Cmd228	-
229	QUERY APP EXT Cmd229	-
230	QUERY APP EXT Cmd230	-
231	QUERY APP EXT Cmd231	-
232	COLOUR TEMP Tc STEP COOLER	
233	COLOUR TEMP Tc STEP WARMER	
234	QUERY APP EXT Cmd234	-
235	QUERY APP EXT Cmd235	-
236	QUERY APP EXT Cmd236	-
237	QUERY APP EXT Cmd237	-
238	QUERY APP EXT Cmd238	-
239	QUERY APP EXT Cmd239	-
240	QUERY APP EXT Cmd240	-
241	QUERY APP EXT Cmd241	-
242	QUERY APP EXT Cmd242	-
243	QUERY APP EXT Cmd243	-
244	QUERY APP EXT Cmd244	-
245	QUERY APP EXT Cmd245	-
246	QUERY APP EXT Cmd246	-
247	QUERY APP EXT Cmd247	-
248	QUERY APP EXT Cmd248	-
249	QUERY APP EXT Cmd249	-

250	QUERY APP EXT Cmd250	-
251	QUERY APP EXT Cmd251	-
252	QUERY APP EXT Cmd252	-
253	QUERY APP EXT Cmd253	-
254	QUERY APP EXT Cmd254	-
255	QUERY EX- TENDED VER- SION NUMBER	-
256	TERMINATE	End the specific operat- ing modes
257	DATA TRANS- FER REGISTER (DTR)	Save value to DTR
258	INITIALIZE	Initialisation procedure
259	RANDOMIZE	Generating a random ad- dress
260	COMPARE	Compare random address to search address
261	WITHDRAW	Exclude address if ran- dom address is the same as the search address
262	Cmd262 RE- SERVED	Reserved command for possible future DALI changes
263	Cmd263 RE- SERVED	Reserved command for possible future DALI changes
264	SEARCHADDRH	Upper 8 bits of the search address
265	SEARCHAD- DRM	Middle 8 bits of the search address
266	SEARCHADDRL	Lower 8 bits of the search address
267	PROGRAM SHORT AD- DRESS	Save short address (6 bit)
268	VERIFY SHORT ADDRESS	Is the short address cor- rect?
269	QUERY SHORT ADDRESS	Query short address

270	PHYSICAL SE- LECTION	Blocks Random Address
271	Cmd271 RE- SERVED	Reserved command for possible future DALI changes
272	ENABLE DE- VICE TYPE	Enable device type X
273	DATA TRANS- FER REGISTER 1 (DTR1)	Save value to DTR1
274	DATA TRANS- FER REGISTER 2 (DTR2)	Save value to DTR2
275	WRITE MEMORY LO- CATION	If the memory location is ready, save value there
276	Cmd276 RE- SERVED	Reserved command for possible future DALI changes
277	Cmd277 RE- SERVED	Reserved command for possible future DALI changes
278	Cmd278 RE- SERVED	Reserved command for possible future DALI changes
279	Cmd279 RE- SERVED	Reserved command for possible future DALI changes
280	Cmd280 RE- SERVED	Reserved command for possible future DALI changes
281	Cmd281 RE- SERVED	Reserved command for possible future DALI changes
282	Cmd282 RE- SERVED	Reserved command for possible future DALI changes
283	Cmd283 RE- SERVED	Reserved command for possible future DALI changes
284	Cmd284 RE- SERVED	Reserved command for possible future DALI changes
285	Cmd285 RE- SERVED	Reserved command for possible future DALI changes



286	Cmd286 RE-SERVED	Reserved command for possible future DALI changes
287	Cmd287 RE-SERVED	Reserved command for possible future DALI changes
952	eDALI Command	

Table 1: Overview of functions

## 2.2 Short description of execution of the DALI commands

Using "DALINetwork – DALI-Cockpit" as an example, how to set and send commands is described briefly. More detailed information about the software and its use/settings can be obtained from the respective manufacturer.

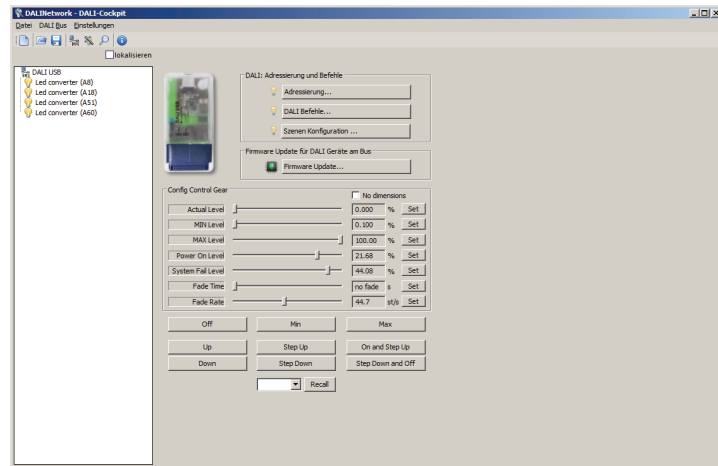


Figure 10: DALI commands and operating options

With the Addressing button, the device connected to the DALI bus can be read/addressed, with each output per device being assigned one address.

### 2.2.1 Addressing

Broadcast → Send command to all devices  
Group → Send command to the group (if there is one)  
Short address → Send command to the stated device

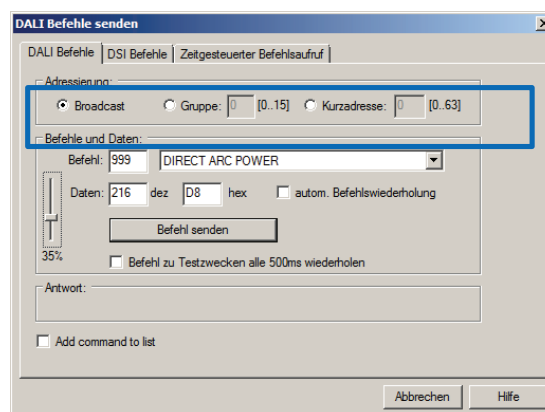


Figure 11: Addressings

## 2.2.2 Command selection

Command selection via dropdown menu or by entering the number (see 2.1 Overview of functions)

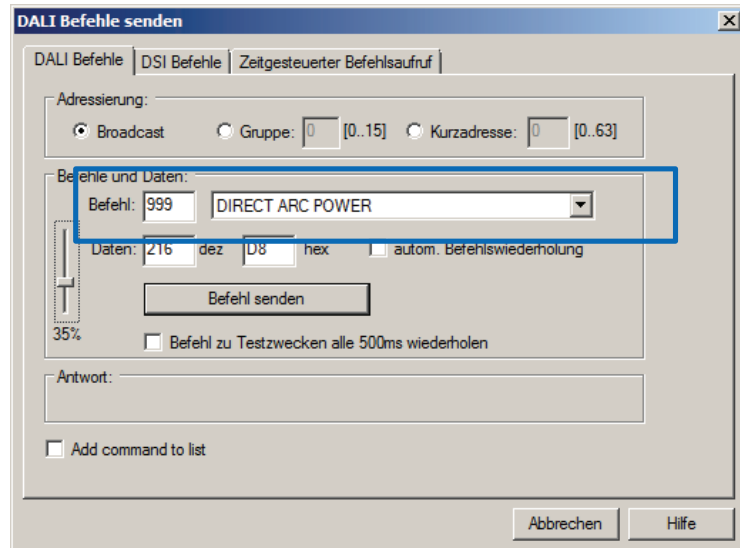


Figure 12: Command selection

## 2.2.3 Setting the light power

Set the light power either with the slide controls or by entering the DATA (not possible for every command!)

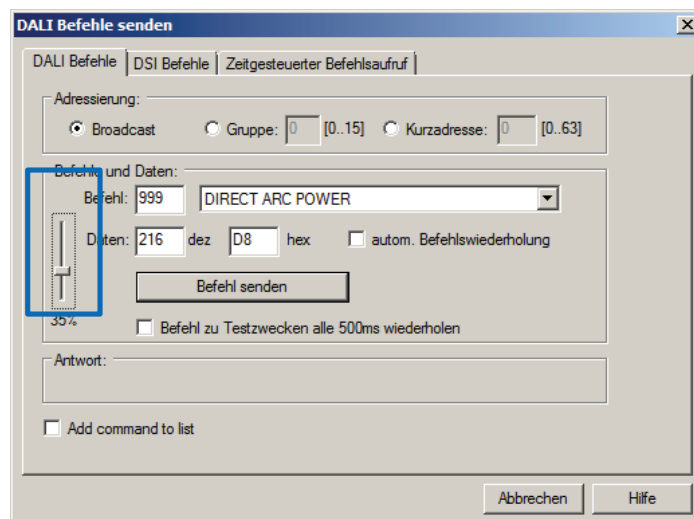


Figure 13: Light power

## 2.2.4 Send command

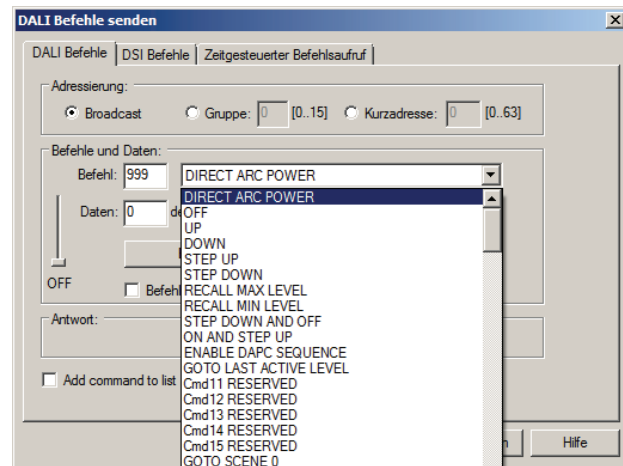


Figure 14: Selection of DALI command

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