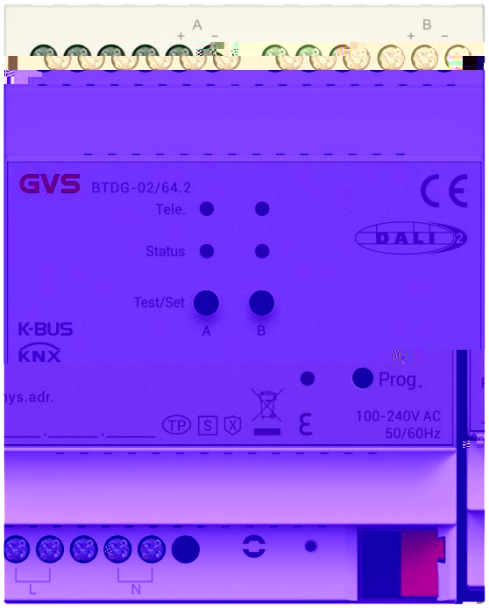
K-BUS 1/2 KNX-DALI-2

KNX-DALI-2 Gateway, 1/2-Fold_V1.8

BTDG-01/64.2

BTDG-02/64.2



KNX/EIB

注意事项

2、不要将设备摔落在地上或使之受到强力冲击。

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1

1/2 KNX-DALI-2 KNX □ KNX DALI □

KNX DALI □ KNX

DALI □ DALI □ DALI □ DALI

□ DALI □ ! ! ! ! □ □ DALI

DALI □ □ □ ! □ KNX □ □ KNX

k

KNX-DALI-2 1 2 □ 64 DALI □ DALI

KNX ! ! ! ! □ k DALI

k □ KNX-DALI-2 □DCA□□

DALI ! DALI ! DALI k

□DCA ETS □ App □ k

1/2 KNX-DALI-2 □ □

□ □ k

1.1.DALI

DALI □ 64 □ □Short address□ k

□ 16 k k

DALI □ □1200 □ □ DALI 64 □

□ k

1.2.

1/2 KNX-DALI-2 □ EN 60 715 □ 35

□ □ □ KNX □ □

100~240V AC k .knxprod

ETS□ ETS5.7.7 □ k

1/2 KNX-DALI-2 □

DALI 1 2 □ 64DALI □

64 DALI □ DALI ! ! ! □

□ □DT6-LED ! DT8-□ □ □

RGB ! RGBW ! XY□ DT7- □DT1-

□ 16 □ DCA □

! ! □

16 DALI □ DCA

8 DALI □

KNX DALI

□ DALI ! ! ! □

□ ! /□ ! ! !

8 □ DALI DALI ! □

□ □ ECG □ECG DCA

□ □ □

DALI □ □

DALI ! DALI DALI

KNX

□ DT1 ! DT7 DALI 2.0 □ DCA

2.0.0.1 k

2

	21-30V DC□
	9.5mA/30V DC 11.0mA/24V DC < 285mW 100~240V AC□50/60Hz <55mA, 220V AC <12W, 220V AC
1 /2	64 DALI 8 DALI
	□160mA □250mA □DALI □ □ □ 160mA 15~19V DC
KNX	□ /□□□0.8 mm Ø
!	
□ LED	
LED □ LED□Tele.)	□ DALI □ □□ DALI □ DALI

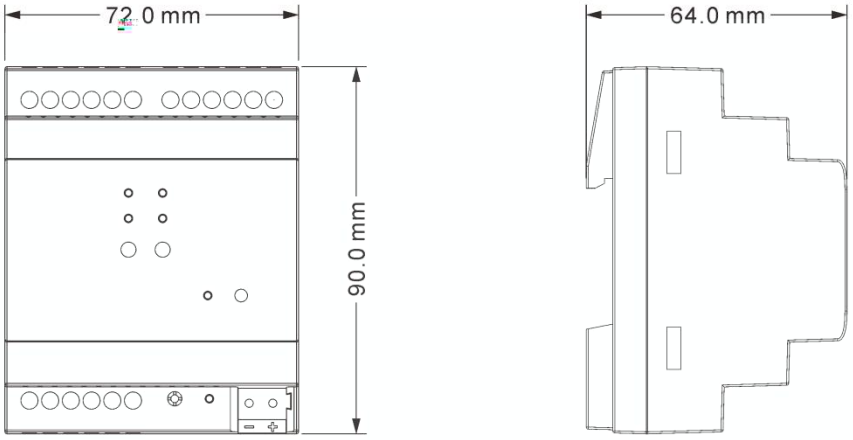
	LED □Status)	LED □ □ □ □ A,B □ A□ LED □ □ DALI
	Test/Set □	<5s□ DALI □ DALI □ □ >5s□ □ DALI
		-5°C...+45°C
		-25°C...+55°C -25°C...+70°C
		<93%□ □ □
	35mm DIN	□DIN EN 60 715
	72mm ×90mm ×64mm	
□ □	0.25KG	

KNX-DALI-2 Gateway,1-Fold/1.0 KNX-DALI-2 Gateway,1-Fold/2.0	1902	2500	2500	1000
KNX-DALI-2 Gateway,2-Fold/1.0 KNX-DALI-2 Gateway,2-Fold/2.0	3803	4500	4500	2000

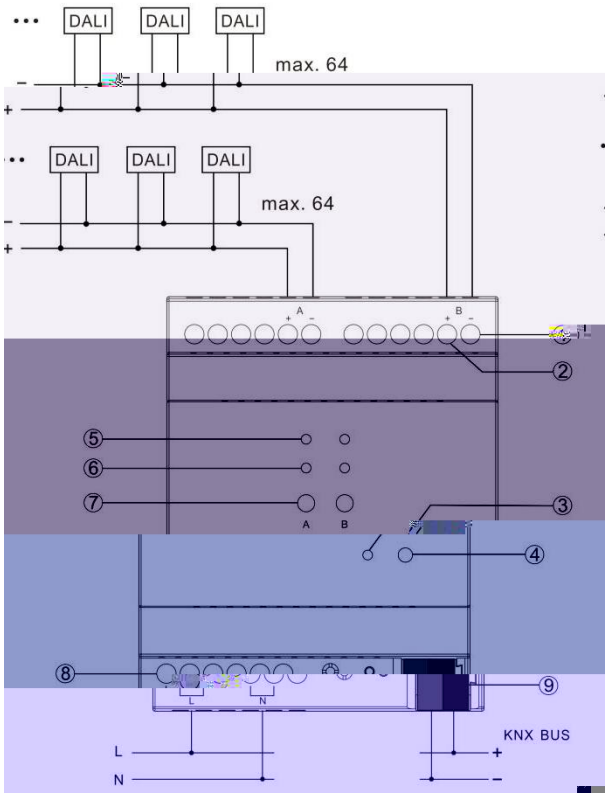
3

□ 2 KNX-DALI-2 □1 A k

3.1.



3.2.



①DALI

②DALI

③ □ □

④ □

⑤LED (Tele.)□

□ □ DALI □

□ □ DALI □

□ DALI

⑥LED□Status)

LED □ □ □ □ A,B

LED □ □ DALI

⑦Test/Set □

<5s□ DALI □ DALI □

□ >5s□ □ DALI DALI DALI □ □ 5.3

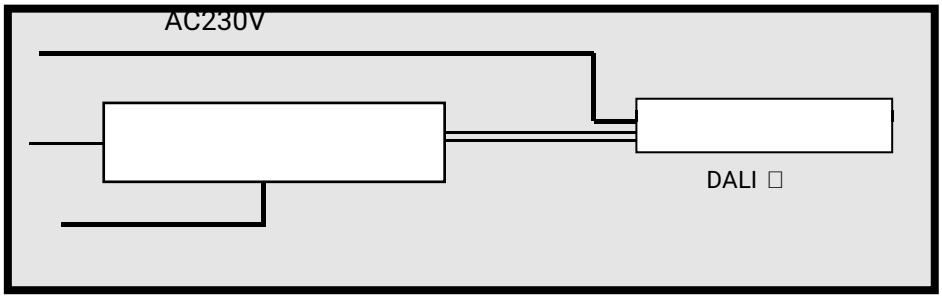
ш230V AC

ㅋKNX

□ □ □ **4** , □ **4** , □ **3**

4 DALI □

4.1.



4.2.

4.2.1.

KNX-DALI-2 □ □ DALI □

□ □ □ DALI k □ □ □ DALI

□ □ □ 30 k

4.2.2. DALI

KNX-DALI-2 □ DALI ! !

! ! □ □ ! ! ! □ □ DT6-LED

! DT8-□ DT7- □ □ k □

Output X ECG y — Switch □ y □

Output X ECG y — Relative Dimming □ y □

Output X ECG y — Brightness value □ y □

Output X ECG y — Relative (percentage) colour temperature □ y □

Output X ECG y — Absolute colour temperature □ y □

Output X ECG y — RGB colour /HSV Hue(H)/HSV Saturation(S) value □ y RGB HSV □ □

Output X ECG y —RGBW colour/White colour value □ y RGBW □

Output X ECG y —Colour XY/Colour X/Colour Y value □ y XY □ □

Output X ECG y — Relative HSV Hue(H)/HSV Saturation(S) value □ y □ □

Output X ECG y — Switched Status H □ y □

Output X ECG y — Brightness Status □ y □

Output X ECG y — Relative (percentage) colour temperature status □ y □

Output X ECG y — Absolute colour temperature status □ y □

Output X ECG y — RGB colour /HSV Hue(H)/HSV Saturation(S) value status □ y RGB/HSV □

□

Output X ECG y —RGBW colour/White colour value status □ y RGBW □ □

Output X ECG y —Colour XY/Colour X/Colour Y value status □ y □ □

Output X ECG y — Relative HSV Hue(H)/HSV Saturation(S) value status □ y HSV □ □ □ □ □ □

4.2.3.

KNX-DALI-2 □ DALI DT1- □

□ □ □ ! ! ! □ □

□

Output X ECG y — Converter, test start □ y ! □

Output X ECG y — Converter, test result □ y □

Output X ECG y — Converter, status □ y □

Output X ECG y — Converter battery, status □ y □

□ □ k □ k

□ □ □ □ k □ □

□

Output X — Converter inhibit mode □ X □

(X= A,B; y=DALI 1..64)

□ **2.0** □ **DCA** **2.0.0.1**

k

4.2.4.

KNX-DALI-2 16 □ DALI !

! ! ! □ k □ □ ETS □ □

DCA □ □ DALI □ ECG k

! ! ! ! □ □

Output X Group y — Switch □ y □

Output X Group y — Relative Dimming □ y □

Output X Group y — Brightness value □ y □

Output X Group y—Absolute colour temperature □ y □

Output X Group y— Relative (percentage) colour temperature □ y □

Output X Group y— RGB colour /HSV Hue(H)/HSV Saturation(S)□ y RGB/HSV □ □

Output X Group y—RGBW colour/White colour value□ y RGBW □ □

Output X Group y—Colour XY/Colour X/Colour Y value□ y XY □ □

Output X Group y— Relative HSV Hue(H)/HSV Saturation(S)□ y HSV □)

Output X Group y — Switch Status □ y □

Output X Group y — Brightness Status □ y □

Output X Group y—Absolute colour temperature □ y □

Output X Group y — Relative (percentage) colour temperature status□ y □

Output X Group y —Output X Group y— RGB colour /HSV Hue(H)/HSV Saturation(S) value status□ y

RGB/HSV □ □

Output X Group y —RGBW colour/White colour value status□ y RGBW □ □

Output X Group y —Colour XY/Colour X/Colour Y value status□ y XY □ □

Output X Group y — Relative HSV Hue(H)/HSV Saturation(S)/White colour value(y HSV

)

(X= A,B; y= 1..16)

DCA ECG ETS ECG

ECG k

4.2.5.

KNX-DALI-2 DALI ! ! k DALI DALI

DALI KNX

KNX ECG k

DALI KNX-DALI-2 DALI

DALI 16 DCA

DALI ! ! k KNX DALI

DALI ECG k

KNX-DALI-2 16 ETS !

! k KNX DALI DALI

k

DCA ECG

k KNX

k

4.2.6.

□ DALI ! ! ! ! □ k

□ □ □

k □ test A/B □ □ DALI k

4.2.7.

DT6-LED ! DT8-□ DT7- □ □

□ 2.0 □ DCA 2.0.0.1

k

□ DALI DALI ! ! ! ! □

□ □ k

□ DALI DALI k □

DALI □ k

□ **DALI** □ □ **□ECG** □ □ □ □

60 k **ECG** □ k

□ □DALI DALI !

□ □ □ k □ □ □

□ □ k

/ □ □ □

□ □ DALI DALI k □DALI

DALI □ □ k

□ □ k ECG

k □ □ k

□ □ □ □ k

□ □□ □ k

ECG □ □ □ □ ECG k

□ k ECG □

k □ □ k

□ □ □ □ k

□

1. □ □ □ □--> --> -->

--> □ □ □--> --> ! !

□ ! ! ! ! □

! □ k □ □ □ k

□ □ □ k

□ k

□ □ □ □ k

□ □ k

2. DALI □ □

k

3.ECG □ ECG □ ECG □

ECG □ECG □ ECG □ECG

k

4.2.8.

□ □ >0% □

□ k □ ECG □ □

k

□ □ k □ □ □

100% k □ ECG □ ECG

k □ECG k □

□ □ □ k □

□ □ □ □ □ k

4.2.9.ECG □ □

DALI □ ECG □ k □ □

k □ ECG □ ECG □ k

k □ 1s □ □ □ 64 ECG □ ECG □

□ 64s□ ECG □ 1s□ □ □ □ □ □ 1 □ k

□ □ k □ ECG □ □2byte ! 1byte

1bit□ KNX k □ DCA ECG □ □ 7

ECG □ k

□ **2.0** □ **DCA** **2.0.0.1** □ k

4.2.10. □ □

DALI □ □ □ ECG □ k □ □

□ □ □ □ DALI □ □

k □ DCA □ □ □ □ □ □ □ □ ECG

□ k

□ **2.0** □ **DCA** **2.0.0.1**

□ □ k

4.2.11.

□ □ □K□ k k

□

1500 K––

2700 K–– □60W□

2800 K––

4000 K–– □ □

□ k

	□		
2700 K		!	□
3000 K		□ □	□ □
3500 K		□	□ □ □
4000 K			□ □ □
5300 K		□ □	□

□ DALI □ □ □ DT6 DT8□

k DT6 □ DALI □ DT8 DALI k DALI

□DALI □ k

4.2.12.RGB(W)

□ □ □ □RGB RGBW□ k □

□ 50□ □0□ □60□ □ □ k

□ □ □ LED

□ □□ □ k □ □ k

DT-8 □ 3byte □RGB□ 6byte □RGBW□ □ k DALI EN 62386-209□

□ □RGBWAF□ k □ 4 □ □ ECG

k

□KNX □ RGB(W) □DALI □ RGB(W) □

□ □ □ KNX RGB(W)

DALI □ □ KNX RGB(W) □ □

□ □ KNX □ RGB(W) HSV(W)

V k

□ □

1. □ □ DALI □□ k

2. □ □ □ □ □ RGB(W)

k

3. □ □ □ (□Colour value when switch on□)

□ □ k

4. □ □ □ □ DALI □

KNX □ k

KNX/E

4.3.

DCA DALI ! k

1. ETS ETS DCA .etsapp

ETS k

2. Test/Set DALI

k

DALI k

DALI **30s** k

3. ETS DALI KNX-DALI-2 Gateway k

F ETS ECG DALI k DCA

k

DCA **DCA** k **4.3(1) !4.3(2)**

4.3(1)

4.3(2)

DALI k

DALI

4. DCA k

5. DALI k

6. DALI DALI DCA k

7. ECG DCA ETS ECG k

ALI “ ” ECG DALI k

8. ECG DALI m&¬Ĵˆ%w k

2

F ECG k

F

KNX/EI

ETS □ □ □ □

DCA □ ETS DALI-2 □ KNX

DALI-2 k ETS □ □ □ ETS

k

KNX □ □ □ □ □ □ □ k

□ □ □ □ KNX □ □□

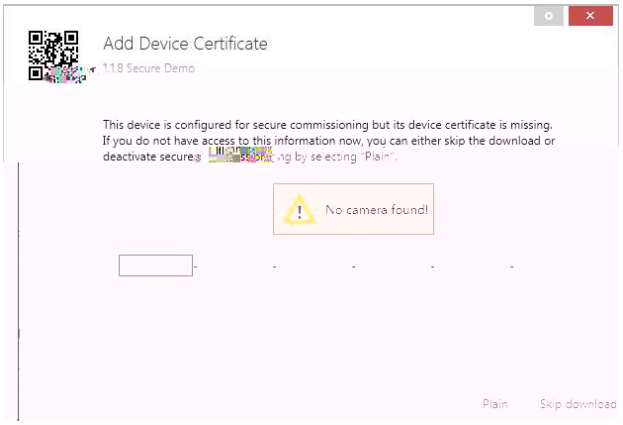
□ □ □ k

KNX □ □ □ □ □ k □ □FDSK = □ □ □

□ □ □ □ ETS□

□ □ETS □ □ □ 5.1 (2) k

□ QR □ □ k

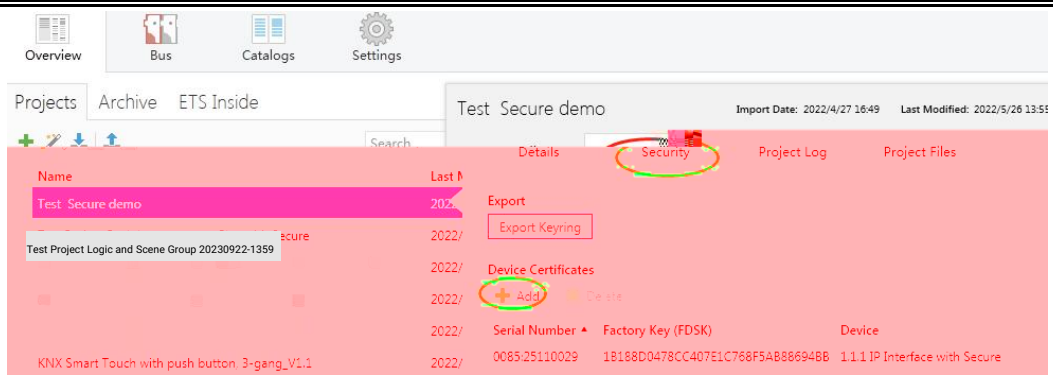


5.1(2) Add Device Certificate

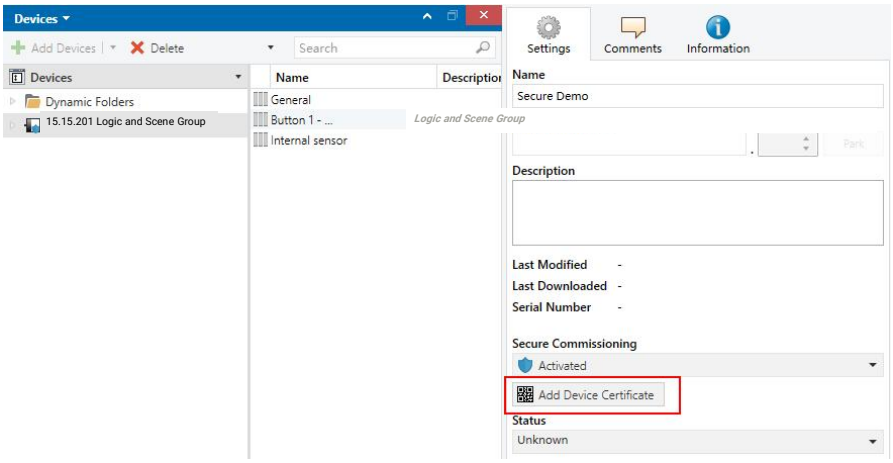
□ □ □ ETS k

□ □ □ “Security” □ □ 5.1(3) k

□ □ □“Add Device Certificate”□ 5.1(4) k



5.1(3) Add Device Certificate



5.1(4) Add Device Certificate

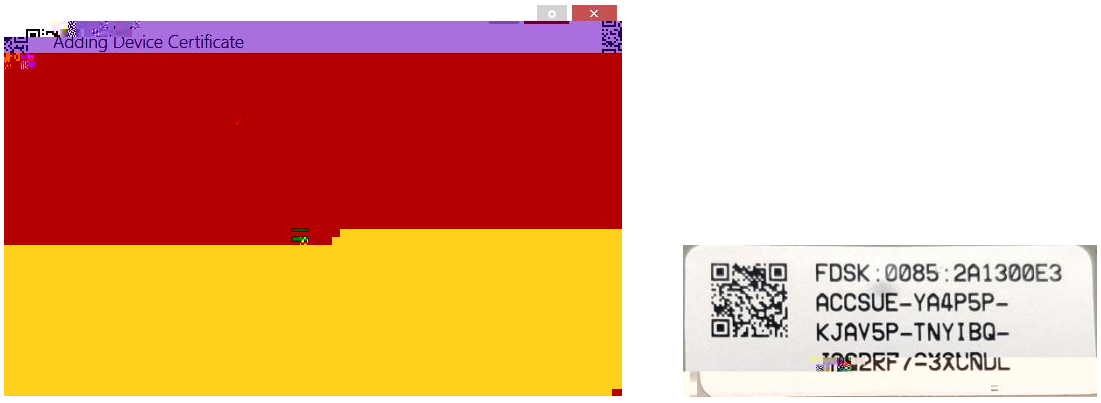
□ FDSK ᵏ

FDSK□ □ KNX ᵏ

FDSK □ FDSK □ETS □□ 5.1(5) ᵏ

□ □ □ ETS □ □□ □

FDSK ᵏ



5.1(5)

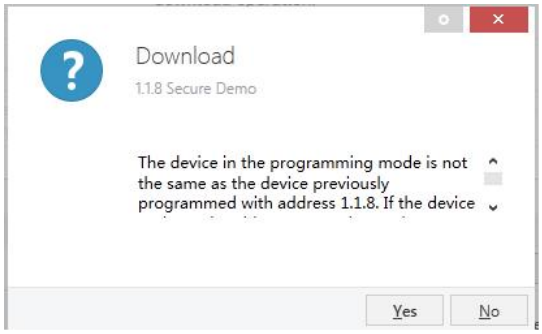
□

□ □ k □

□ 5.1(6) □ “Yes”□ “Add Device Certificate” □ FDSK□

□ □ □ □ □ □ □ □

□ □ 5.1(6) □□ k

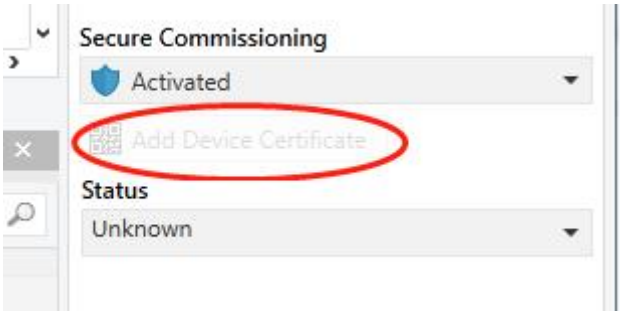


5.1(6)

□ □ □□

□□ **FDSK** k

□ “Add Device Certificate” □ □ k



5.1(7)

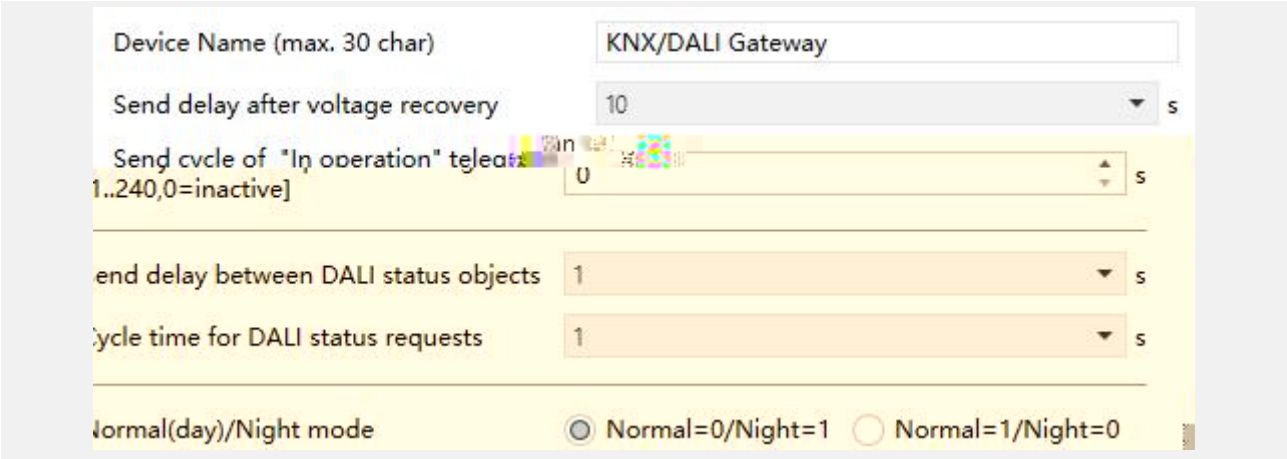
ETS □□

□ □ □ 5.1(8)□ .knxkeys k

5.2. □“General”

“General” □ DALI k

1 2 □ □ □ 2 k



5.2 □ □General □

□Device Name(max.30 char)□

□ 30 k

□Send delay after KNX bus recovery□

□ k □

k □ □ k

□ □

Immediately

5s

10s

...

60s

k k

□ □ DALI □ 128 ECG □

2 □ □ KNX DALI □ k

□ □ k k

□Send cycle "In operation" telegram (1..240, 0=inactive)□

□ k □0□ □

□In operation□ k □0□ □ □In operation□

□1□ k □□ **0...240s□0=**

□ □ □

k □ □ □□ □ k

□ □ □ k

□Send delay between DALI status objects□

DALI □ □ □ □

□ □ k □□

No delay

0.5s

1s

2s

...

10s

□ □ □DALI □ k

□Cycle time for DALI status requests□

DALI □ ! □□ k ECG □□

□ □ □ □ DALI ECG □ k

□ □

No request

0.5s

1s

2s

...

10s

□ 1s□ 64 ECG□ ECG □ 64s□ ECG □

1s□ □ □ □ □ □ 1 □ k

DALI □ □ □ k □ DALI

□ k □ □ □ k

□ □**No request**□ □ □ □ **ECG** □ □

□ □ □ k

□Normal(day)/Night mode□

□ □/ k □ □

Normal=0/Night=1

Normal=1/Night=0

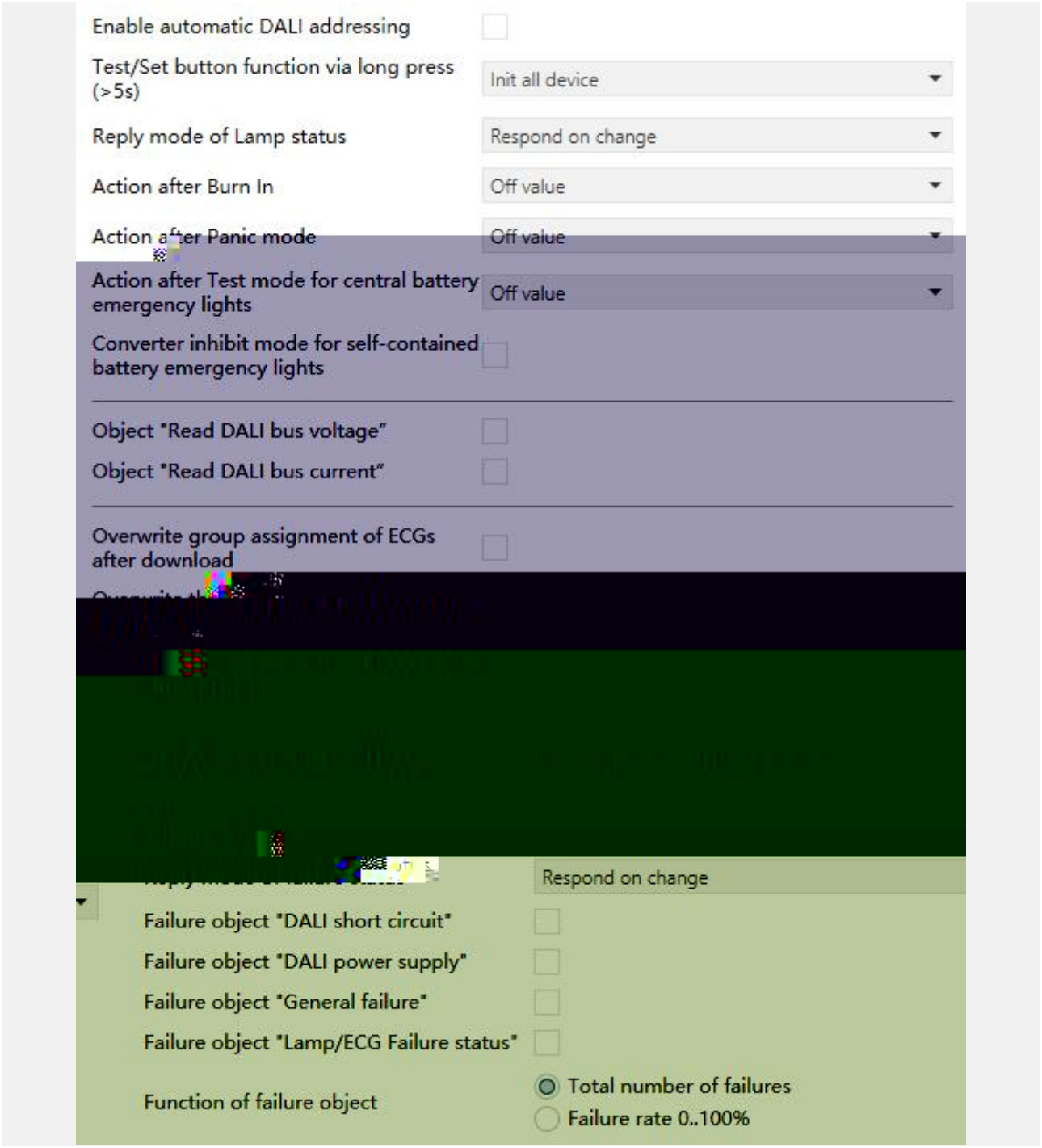
□ □ □ k **ECG** □

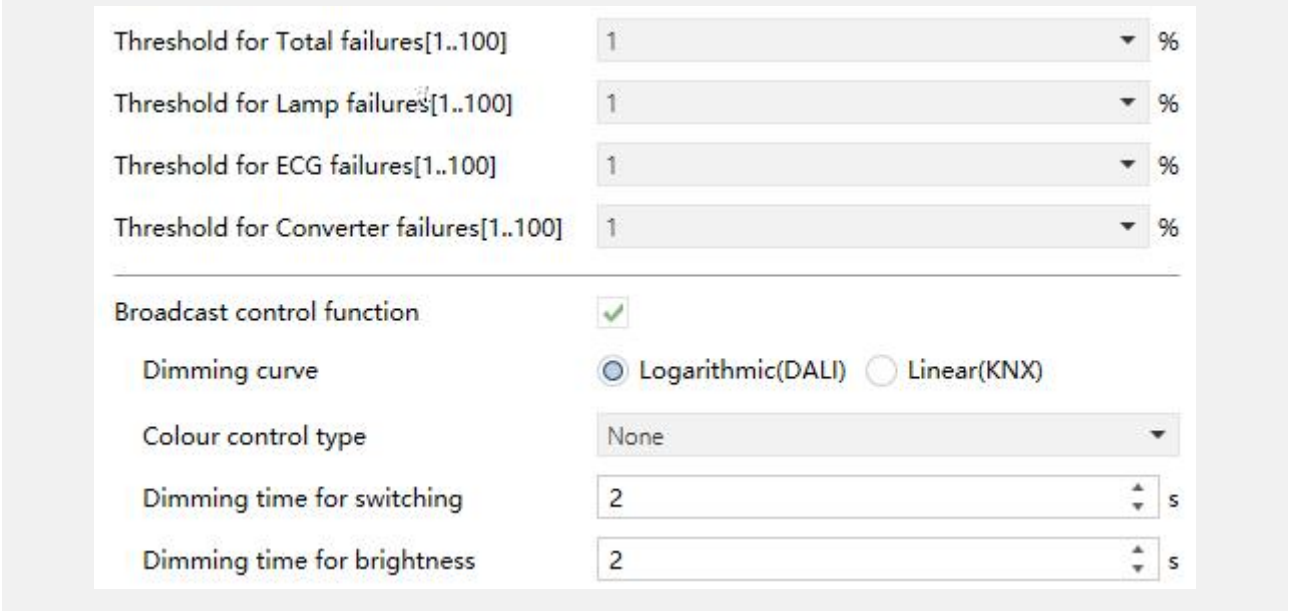
□ **ECG/** k

5.3. □ “DALI Output A/B”

□ DALI □ □ □ □ k

□ □ k





5.3 □“DALI Output A/B”

□Enable automatic DALI addressing□

DALI □ DALI

k

□ □ DALI k DALI □

k DALI □

k (DCA Test/Set □ DALI)

□ □ DALI DALI □

□ DALI k

DALI □ □ DALI

□ DALI □ □ □ □ □

k

□Test/Set button function via long press(>5s)□

□ (>5s)Test/Set □ k

□ □

No action

Init no address device

Init all device

No action □ k

Init no address device □ DALI DALI k

Init all device □ DALI DALI k

□Reply mode of Lamp status□

ECG □ □ □ k □□

Respond after read only

Respond after change

Respond after change and bus reset

Respond after read only □ ECG

□ k

Respond after change □ □

k

Respond after change and bus reset □ ! □ □

k

□ □□ □ □ □ **ECG**

□ k

□Action after Burn In□

□ECG k □□

On value

Off value

Last brightness value

On value □ “Switch on” k

Off value □ k

Last brightness value □ ECG/ □ ECG/

k

□ Action after panic mode □

□ ECG k □ □

On value

Off value

Last brightness value

On value □ “Switch on” k

Off value □ k

Last brightness value □

□ □ k □ k

□ □ □ □ k

□ □ k □ □ Converter inhibit mode □

DALI □ □ □ □15 □ □

□ □ k □ k

15 □ □ □ k

□ **2.0** □ **DCA** **2.0.0.1** **k**

□ Objec

□Overwrite DALI scene of ECGs after download□

□ DALI k □ □

□ DALI □ □ □□ k

□ **2.0** □ **DCA** **2.0.0.1** k

□ **3** □ □ k

The above 3 parameters are mainly used to replace the ECGs,and will extend the initial time when the above parameters enable,please check

□Apply DCA setting for all ECGs□

ECG DCA k □□

No,ETS parameter setting to all ECGs

No,independent setting in each ECGs

Yes

No,ETS parameter setting to all ECGs□ ECG DCA □ ETS □ ECG □ □Apply DCA setting for ECG□□ k

No,independent setting in each ECGs□ ECG DCA □□ ECG □Apply DCA setting for ECG□ k

Yes□ ECG DCA □ECG □ □Apply DCA setting for ECG□□ k

□ **2.0** k

Failure analysis □

□Reply mode of failure status□

ECG □ k □ □

Respond after read only

Respond after change

Respond after change and bus reset

Respond after read only □ □ □

□ k

Respond after change □ □ □ k

Respond after change and bus reset □ □ □ □ k

□Failure object "DALI short circuit"□

DALI k

□Failure object "DALI power supply"□

DALI k

□Failure object "General failure"□

DALI □ k □ □ □1□ □

□ □ □0□ k □ECG□ □ k

□Failure object "Lamp/ECG Failure status"□

ECG/ □ □ k

□ □Lamp/ECG Failure status□ □ ECG □ □1byte □

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
ECG □	□	ECG 1..64					

□

1. 1000 0011□ 131□ ECG4 ECG □ k
2. 0100 0010□ 66□ ECG3 □ k

ECG □ □ □ Bit7 Bit6 1 □

ECG x □ □ □

ECG3 □ □1100 0010□ 194□

ECG3 ECG □ □ □1000 0010□ 130□

□ □ □ □ k

ECG □ □DALI □ □ k

□Function of failure object□

! ECG □ □ □ □ k

□ □ 7 ! 9 11 k □ □

Total number of failures

Failure rate 0..100%

Total number of failures□ □ □ k

Failure rate 0..100%□ □ k

□8 □1 □ □ □ 12% k

□Threshold for Total failures[1...100]□

□ECG □ □ □ 8□ □ k □ DALI

ECG □ □ □ □ □ 8 k □ □**1..100%**

□Threshold for Lamp failures[1...100]□

□□ 10□ □ k□ DALI □□

□ □ □ 10 k □□**1..100%**

□Threshold for ECG failures[1...100]□

ECG □□ 12□ □ k□ DALI ECG

□□ □ □ □ 12 k □□**1..100%**

□Threshold for converter failures[1...100]□

□□ 17□ □ k□ DALI

□□ □ □ □ 17 k □□**1..100%**

□ **2.0** □ **DCA** **2.0.0.1** k

□Broadcast control function□

k

□ □ DALI k

□ □

-- □Dimming curve □

DALI k □□

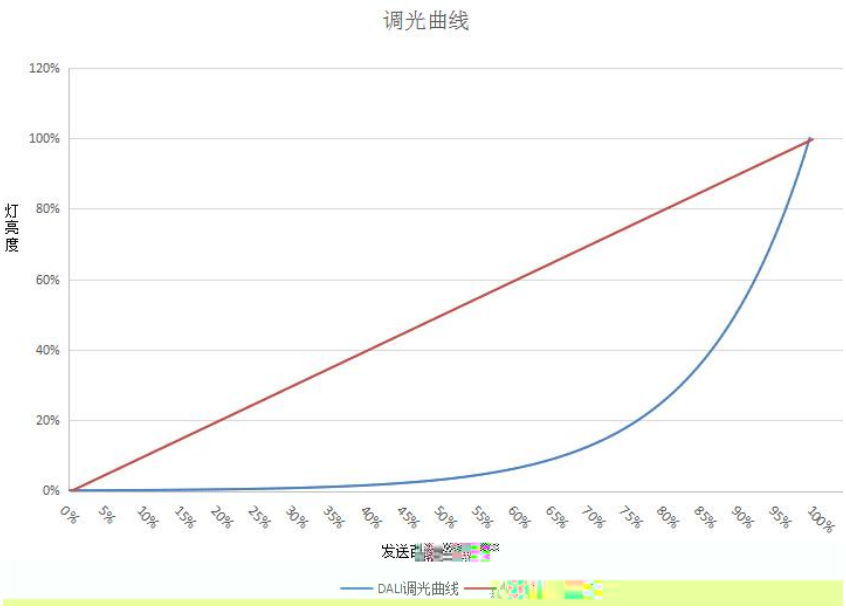
Logarithmic(DALI)

Linear(KNX)

KNX DALI □□ □ k □

□ k

□DALI□ □KNX□ □



KNX DALI □ □ □ □ □ □ □ □

□ □ k

-- □Colour control type□

□ k k

□ □

None

Colour Temperature

RGB Colour

RGBW Colour

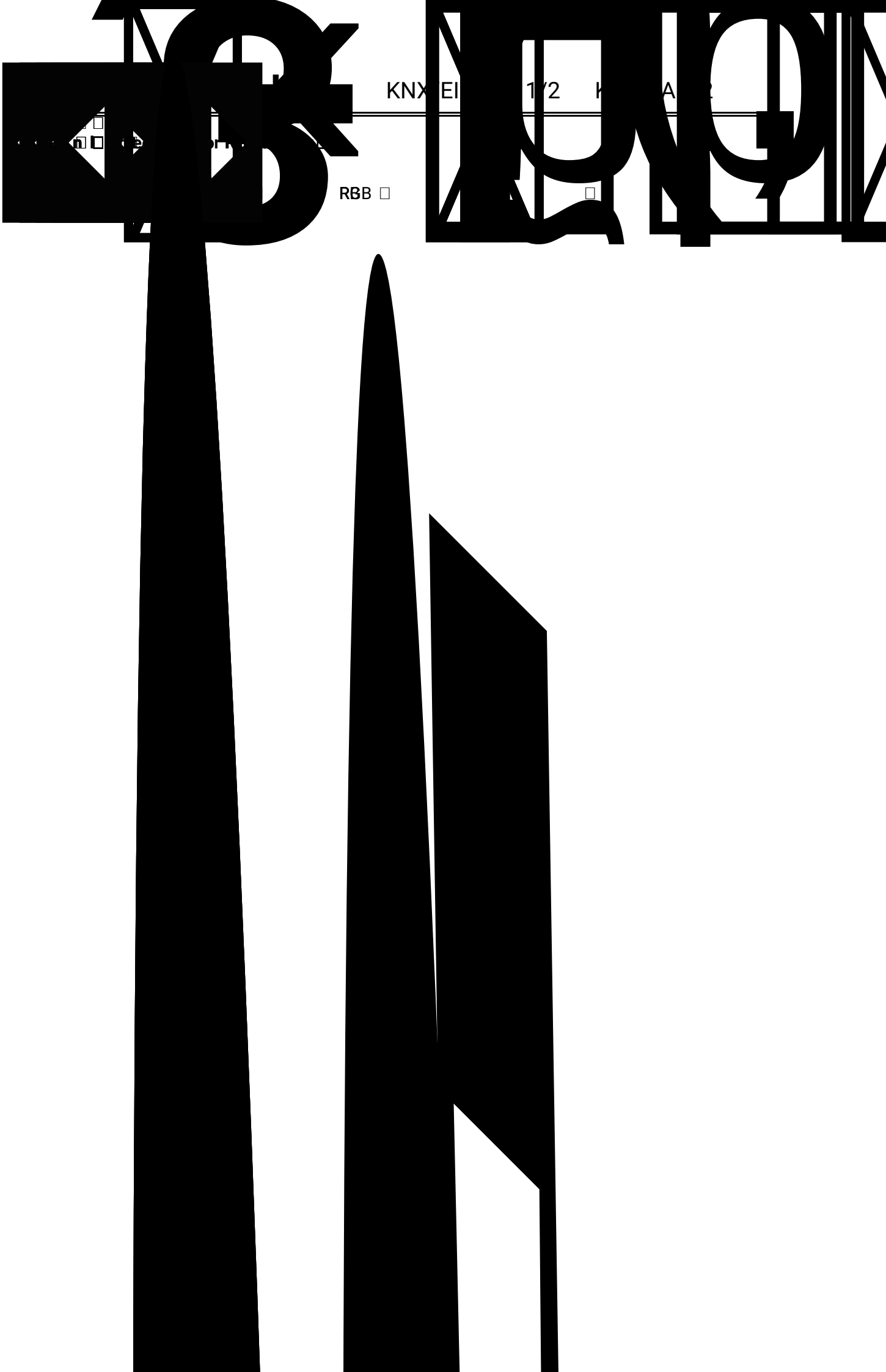
XY Colour

Colour Temperature□ □ k

RGB Colour□RGB □ k

RGBW Colour□RGBW □ k

XY Colour□XY □ □ □ k



5.4. □"ECG/Group Template setting"

5.4 □"ECG/Group Template setting"

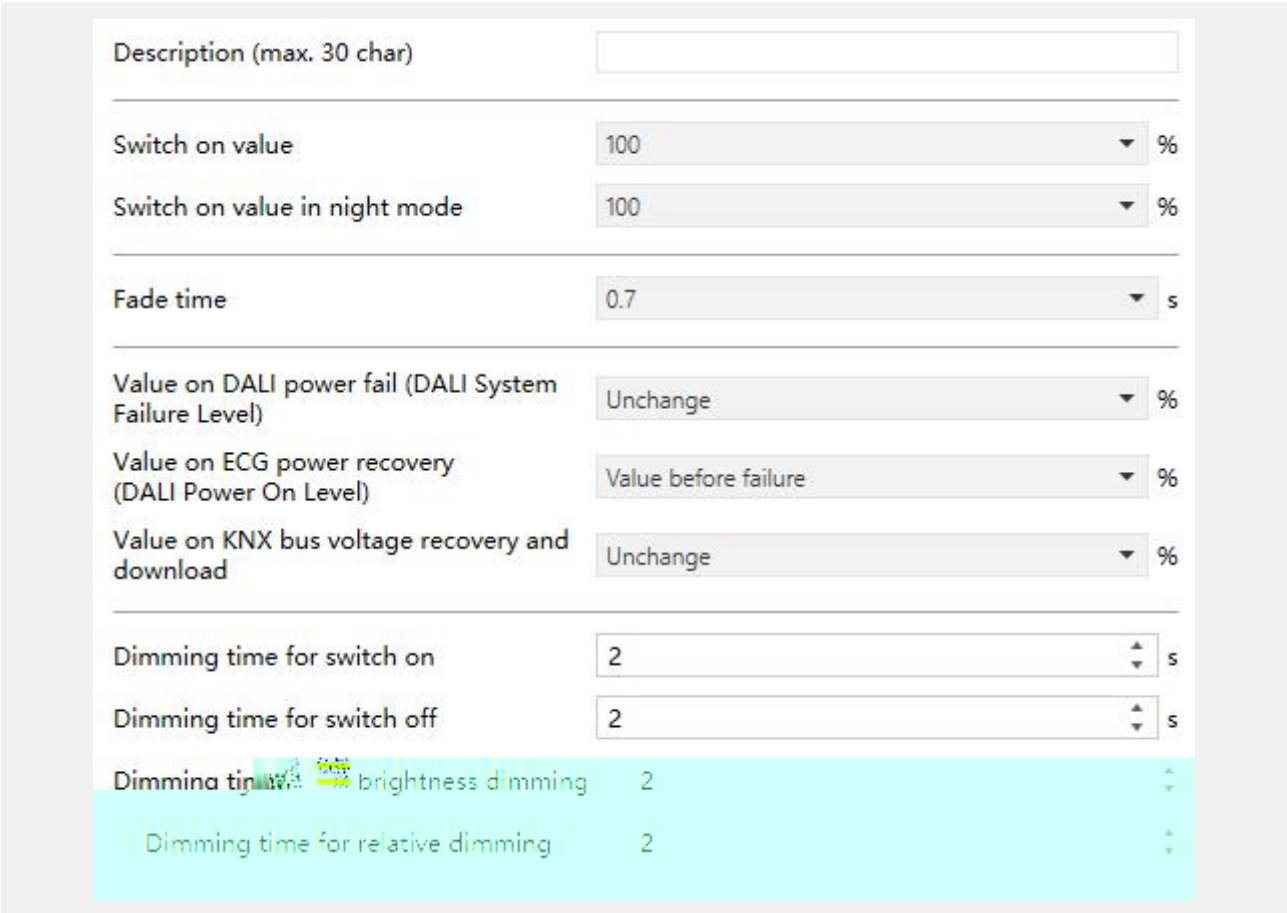
□Number of templates□

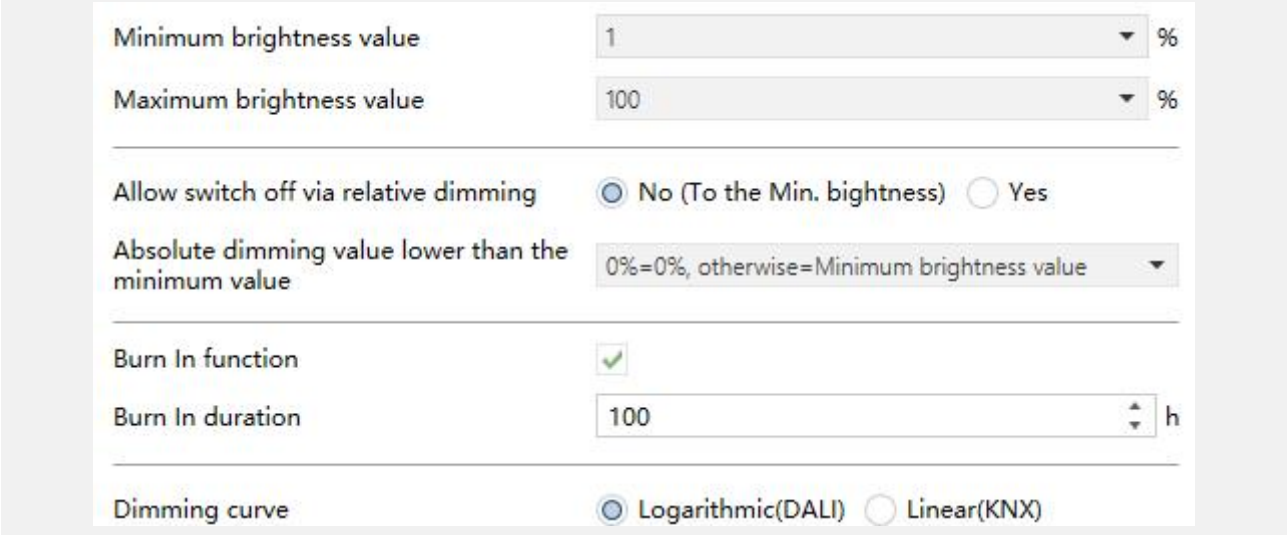
ECG □□ 8 k

5.4.1. □"Template X(X=1~8)"

"Template X" □ 5.4.1 □ □ ECG □ 8

k ECG □ ECG □ DCA k





5.4.1 □ □Template X□(X=1~8)

□ □

□Description (max.30 char)□

□ 30 k

□Switch on value□

□Switch on□ k □ □

1%

2%

...

100%

Last brightness value

Last brightness value□ □ □ □ □ 50% k

ECG/Group□ / □ k □ / □

k

□Switch on value in night mode□

□ “Switch on” k □ □

Disable

1%

2%

...

100%

Last brightness value

Disable □ □ / □ k

Last brightness value □ □ □ □ □ 10%

□ Fade time □

DALI □ k ! □ □ k

□ □

0s

0.7s

1.0s

1.4s

2.0s

...

90.5s

□

1. **0.7s** k

2. □ □ □ **"Dimming time for switch on/switch off/brightness dimming/relative dimming"** □ k

□ Value on DALI power fail (DALI System Failure Level) □

DALI k ECG □ ECG

k □ □

0%

1%

2%

...

100%

Unchange

Unchange □ □ DALI □ k

□Value on ECG power recovery (DALI Power On Level)□

ECG k ECG □ ECG ECG

k □ □

0%

1%

2%

...

100%

Value before failure

Value before failure □ □ ECG k

□Value on KNX bus voltage recovery and download □

KNX k □ □

0%

1%

2%

...

100%

Unchange

Value before failure

Unchange □ □ k

Value before failure □ KNX □ □ KNX □

□ KNX □ □ □ k

□ k

□ Dimming time for switch on/off □

□ k

□ □ **0...255s**

□ Dimming time for brightness dimming □

k □ □ **0...255s**

□ Dimming time for relative dimming □

k □ □ **1...255s**

□ Minimum brightness value □

k KNX-DALI-2 □ □

□ □ k □ □

0%

1%

2%

...

49%

□ Maximum brightness value □

k KNX-DALI-2 □ □ □

□ □ k □ □

50%

51%

52%

...

100%

k

-- **□Burn In duration□**

□ DALI □ k □□**1...255h**

□Dimming curve □

DALI k □□

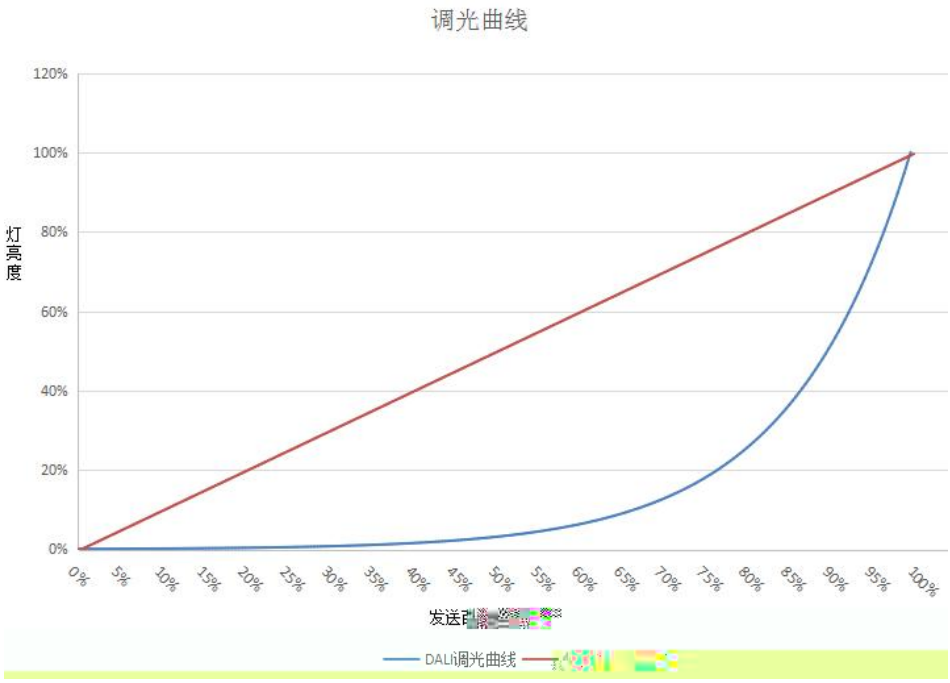
Logarithmic(DALI)

Linear(KNX)

□ □ □ □ □

k

□ k



5.5. □"Emergency Template setting"

□ 2.0 □ DCA 2.0.0.1 k

5.5 □"Emergency Template setting"

□Number of templates□

□□ 8 k

5.5.1. □"Template X(X=1~8

□ □

1%

2%

...

100%

□ k

□ Delay time for return to normal mode after power recovery □

k □ □ **0...127 min □ 0**

□ Interval of long duration test (0=inactive) □

□ □ □ k

□ □ **0...52 week □ 0** **□**

□ Interval of function test (0=inactive) □

□ k □ECG □ □

k

□ □ **0...30 day □ 0**

□ Test execution timeout □

□ □ □ □

k □ k □ □ **0...255 day**

□ □ □ ! □□

□ □ k 0 □ 15 □ k

k

5.6. □“Group setting”

5.6 □”Group setting”

□Number of groups□

□□ 16 k □□

None

1

2

...

16

5.6.1. □”Group X”(X=1~16)

□Group X□ □ 5.6.1 □ □ DALI k

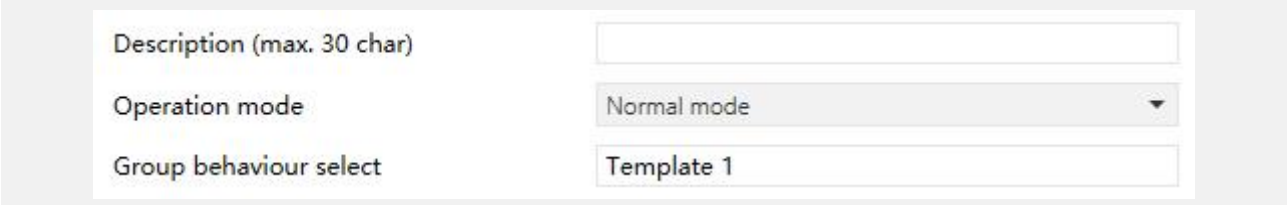
KNX-DALI-2 16 □ DALI DCA

□ k □DALI

k

□ □ □ □ □ **KNX** □

□ □ □□ □ □ k



5.6.1 □”Group X”

Group description(max 30 char.)

30

Operation mode

Normal mode

Permanent mode

Normal/Night mode

Staircase mode

Normal mode DALI

Permanent mode DALI

Normal/Night mode / 2 2

Staircase mode

Group behaviour select

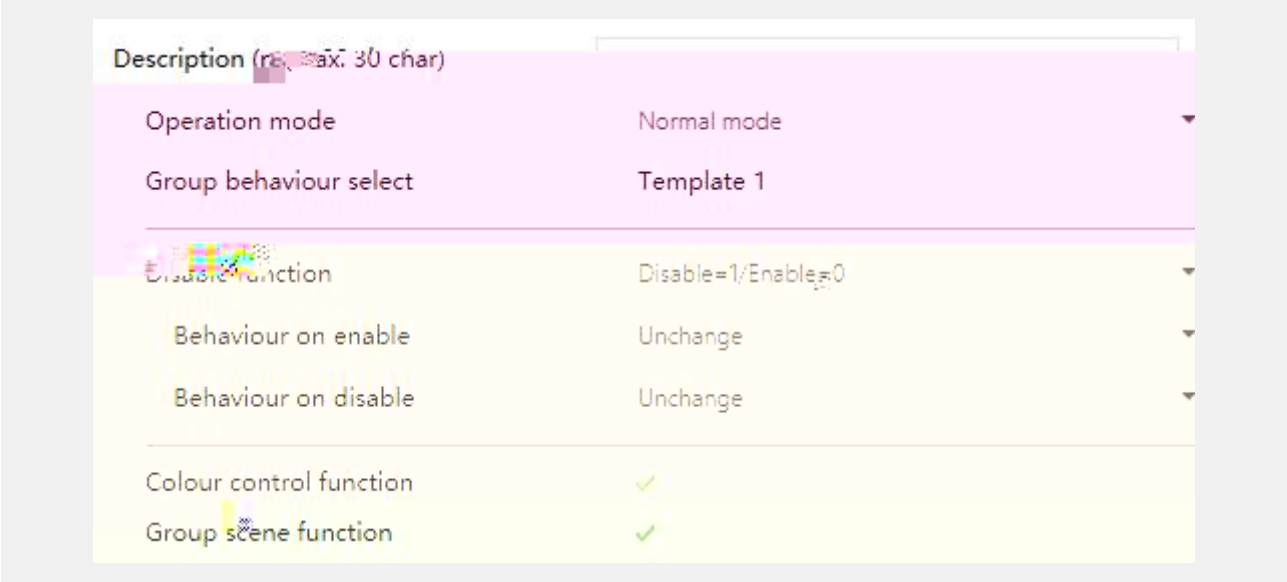
Template 1

...

Template 8

5.6.1.1. “Normal mode”

k



5.6.1.1 “Normal mode”

k

Disable function

/ k

Disable

Disable=1/Enable=0

Disable=0/Enable=1

k

-- **Behaviour on enable**

k

Unchange

Switch on

Switch off

Unchange k

Switch on Switch on k

Switch off □ Switch off k

-- □ **Behaviour on disable** □

k □ □

Unchange

Switch on

Switch off

Unchange □ k

Switch on □ Switch on k

Switch off □ Switch off k

□ Colour control function □

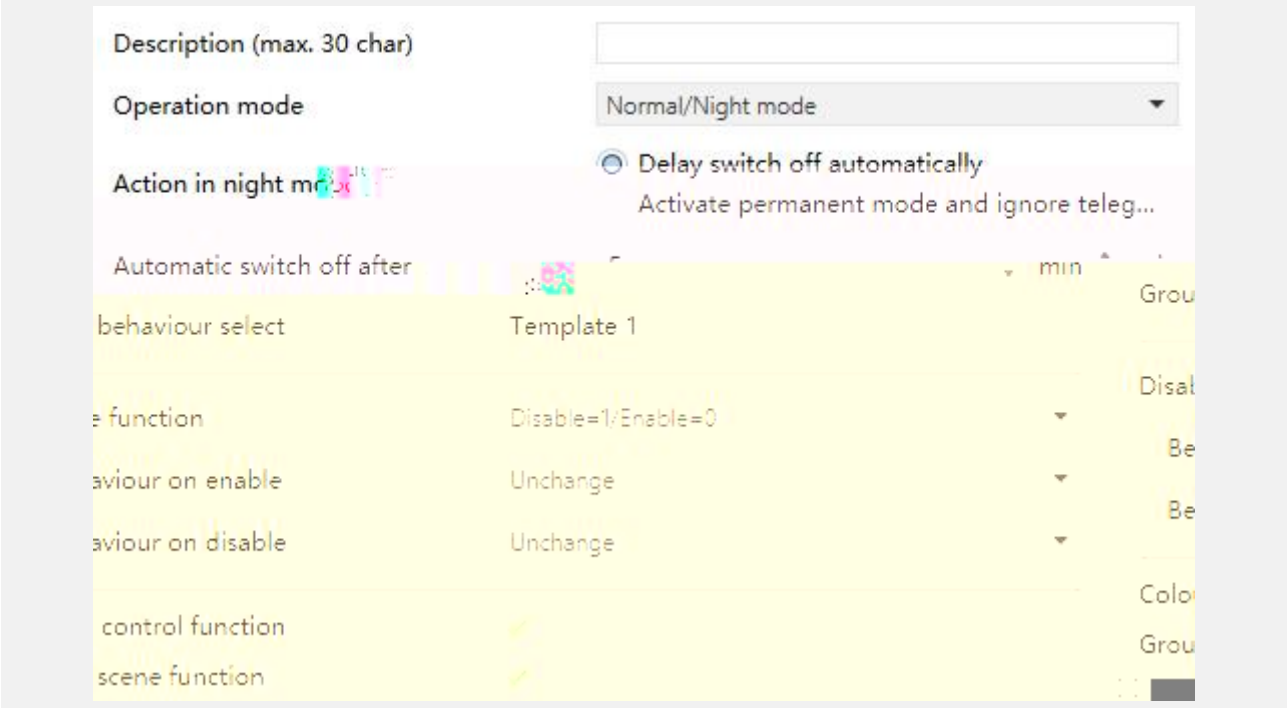
□ k 5.6.2 k

□ Group scene function □

k 5.6.3 k

5.6.1.2. “Normal/Night mode”

/ k



5.6.1.2 “Norma/Night mode”

□Action in night mode□

k □ □

Delay switch off automatically

Activate permanent mode and ignore telegrams

Delay switch off automatically □ □ □ □ □

□ □ k □ □ k

Activate permanent mode and ignore telegram □ □

k □ □ k

□Automatic switch off after□

□Delay switch off automatically □ □ DALI □

k □ □ **1..255 min**

□Brightness value in permanent mode□

□Action in night mode□ □Activate permanent mode and ignore telegram□

□ □ DALI k □□

0%

1%

...

100%

5.6.1.3. “Staircase mode”

k

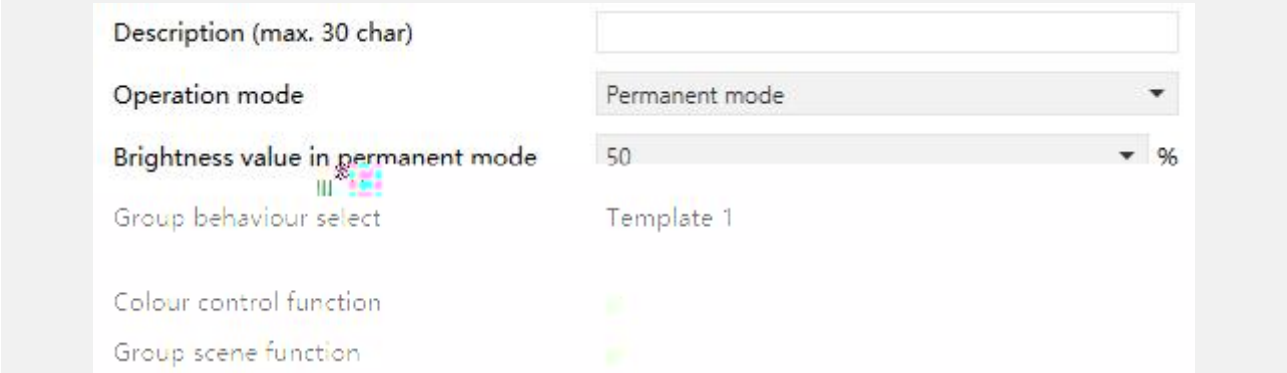
5.6.1.3 “Staircase mode”

□Automatic switch off after□

DALI □ □ k □□**1..255 min**

5.6.1.4. “Permanent mode”

k



5.6.1.4 “Permanent mode”

□Brightness value in Permanent mode□

□ DALI k □ □

0%

1%

...

100%

5.6.2. □"Colour control"

□ □ k

5.6.2 "Colour control"

□Colour control type□

□ k □□

Colour Temperature

RGB Colour

RGBW Colour

XY Colour

Colour Temperature□ □ k

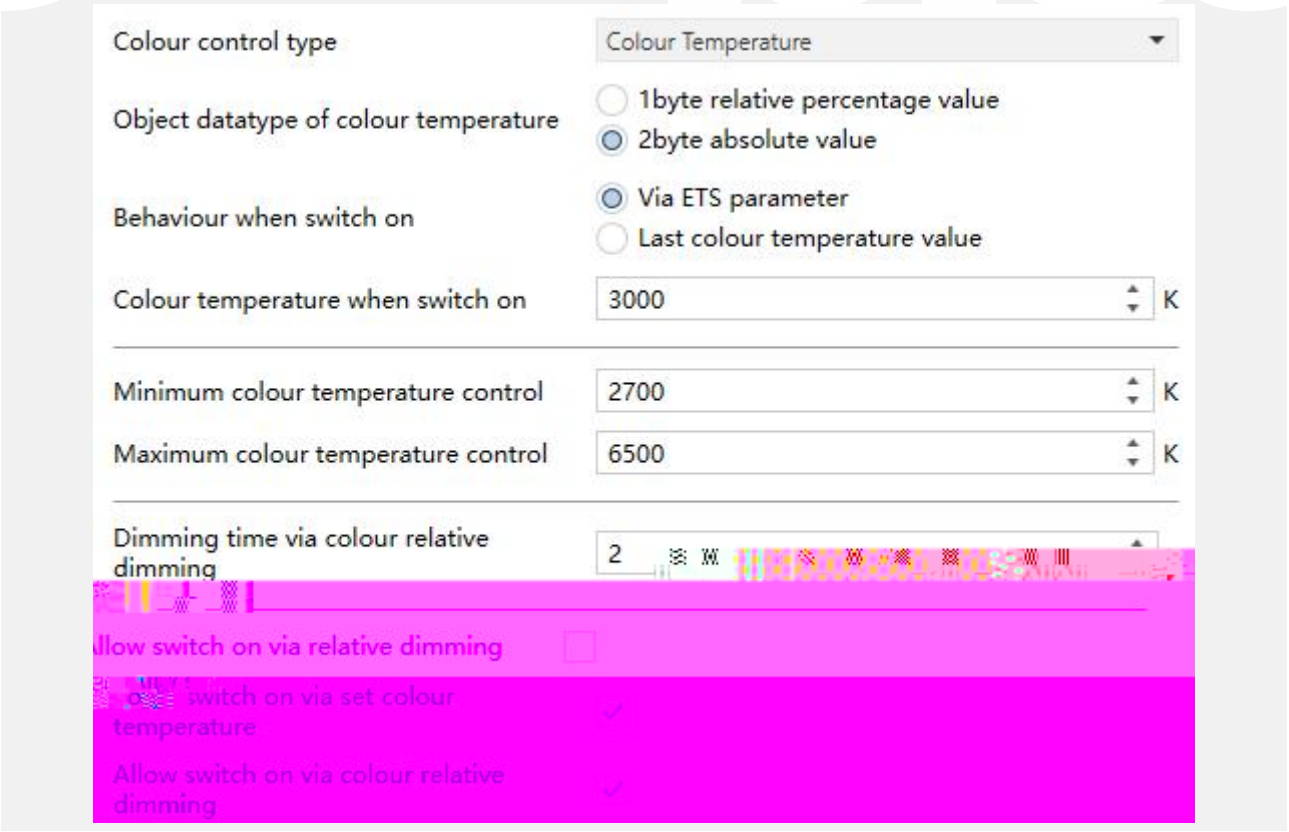
RGB Colour□RGB □ k

RGBW Colour□RGBW □ k

XY Colour□XY □ □ □ k

□ □ **ECG** □ □ □ k

5] “Colour Temperature”



5.6.2.1 “Colour Temperature”

Object datatype of colour-temperature

k

1byte relative percentage value

2byte absolute value

1byte relative percentage value 1byte 0%= 100%= k 0-100%

k 1000...10000K 50% 4500K k

2byte absolute value 2byte

Via ETS parameter □ “Switch” k

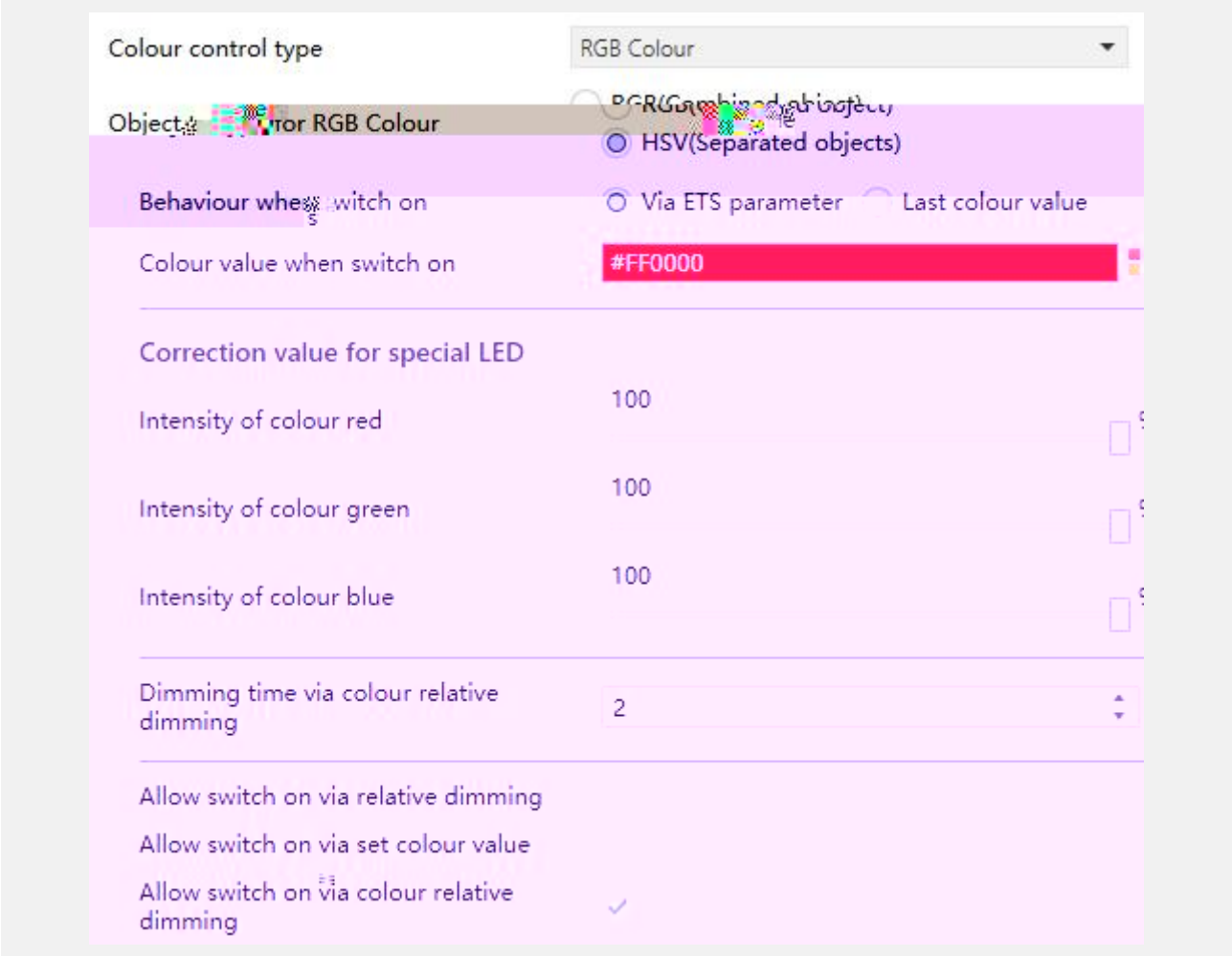
Last colour temperature value □ “Switch” □

□ □ 4000K □ 50%

-- **□ Colour temperature when switch on □**

□ Via ETS parameter □ □ □□□□ □ □ □ □ □

5.6.2.2. □ “RGB Colour”



5.6.2.2 “RGB Colour ”

□Object type for RGB Colour□

RGB k □ □

RGB(Combined object)

HSV(Separated objects)

□Behaviour when switch on□

□ □ k □ □

Via ETS parameter

Last colour value

Via ETS parameter □ “Switch” □ k

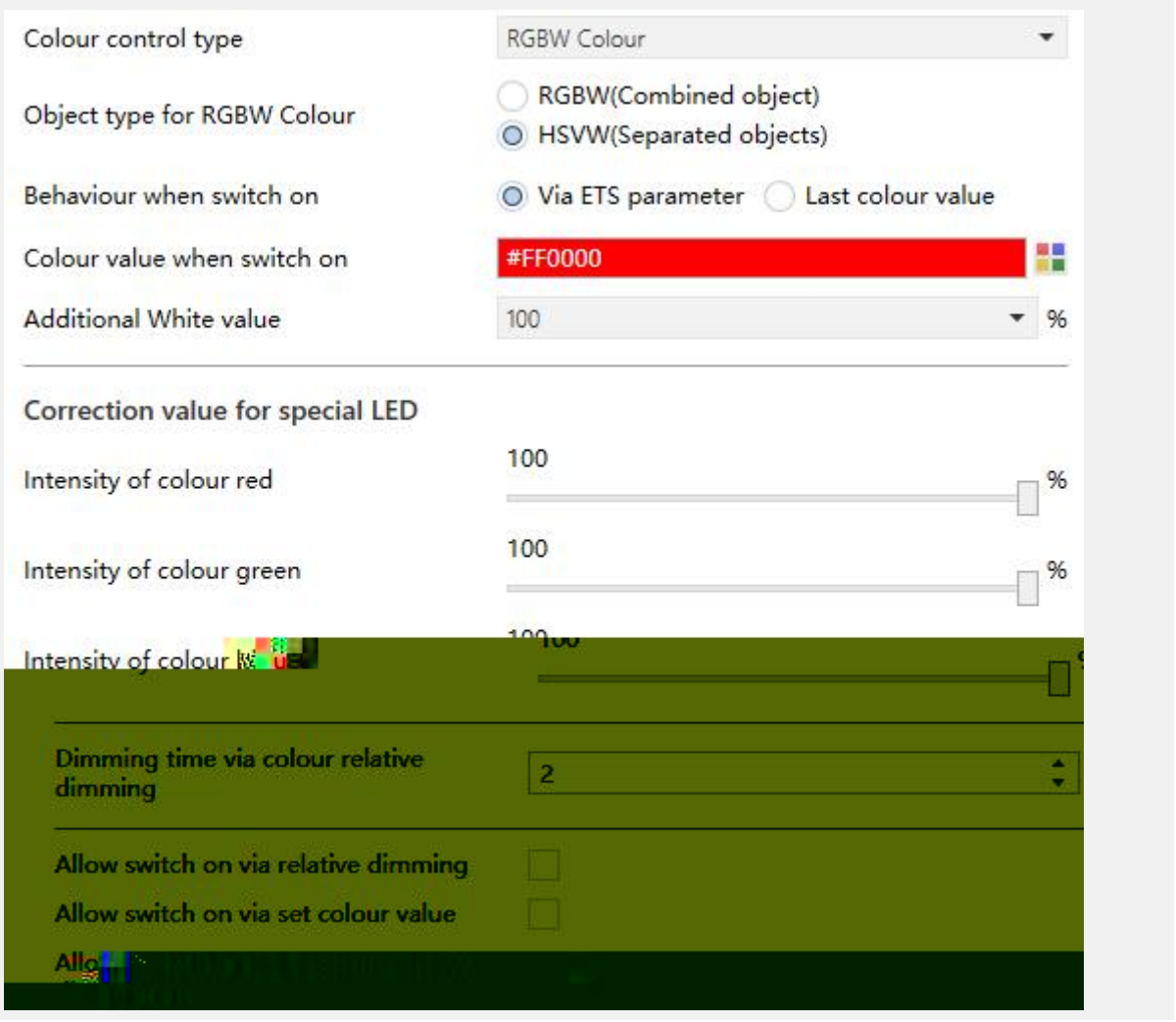
□□□□

□ □□000000...FFFFFF

k □□0...100%

□□□□□□

5.6.2.3. □ “RGBW Colour”



5.6.2.3 “RGBW Colour ”

□Object type for RGBW Colour□

RGBW k □ □

RGBW(Combined object)

HSVW(Separated objects)

□Behaviour when switch on□

□ □ k □ □

Via ETS parameter

Last colour value

Via ETS parameter □ “Switch” □ k

Last colour value □ “Switch” □ □ □ □□

□□W□ 50% k

□Via ETS parameter□ □ □

-- □Colour value when switch on□

□ k □□**000000...FFFFFF**

-- □Additional White value□

k □□**0...100%**

Correction value for special LED

□Intensity of colour red□

□Intensity of colour green□

□Intensity of colour blue□

/ / k □□**0...100%**

□ **0%□** □ □□ **0%** k

□Dimming time via colour relative dimming□

RGBW □HSVW(Separated objects)□ □ k □ □

□ k □□**1...255s**

□Allow switch on via relative dimming□

□ k

□Allow switch on via set colour temperature□

RGBW □HSVW(Separated objects)□ □ k □

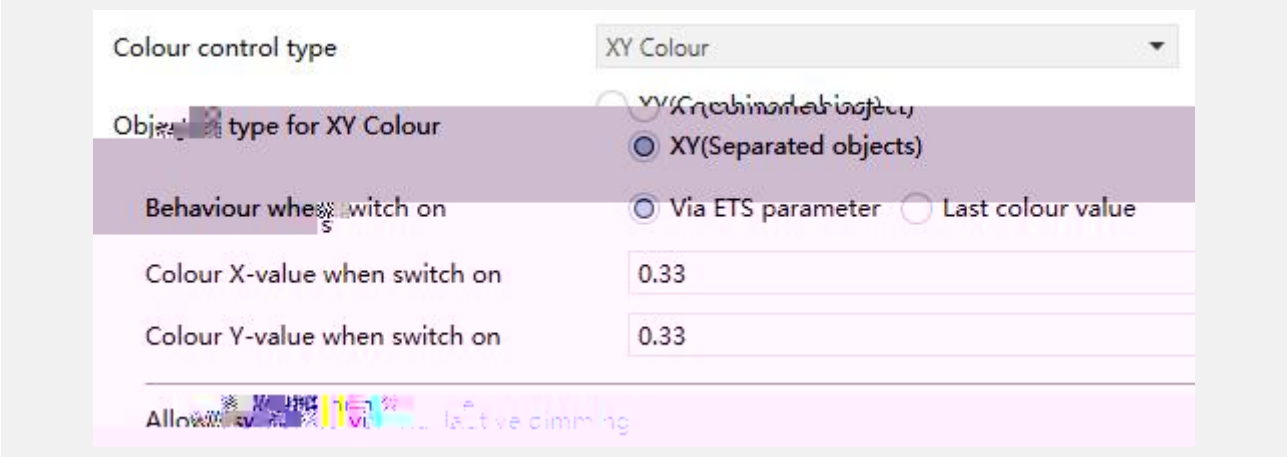
□ k

□Allow switch on via colour relative dimming□

RGBW □HSVW(Separated objects)□ □ k □ □

k

5.6.2.4. □ “XY Colour”



5.6.2.4 “XY Colour ”

□Object type for XY Colour□

XY □ k □□

XY(Combined object)

XY(Separated objects)

□Behaviour when switch on□

□ □ k □□

Via ETS parameter

Last colour value

Via ETS parameter□ “Switch” □ k

Last colour value□ “Switch” □ □ □ □□

□ 50% k

Via ETS parameter

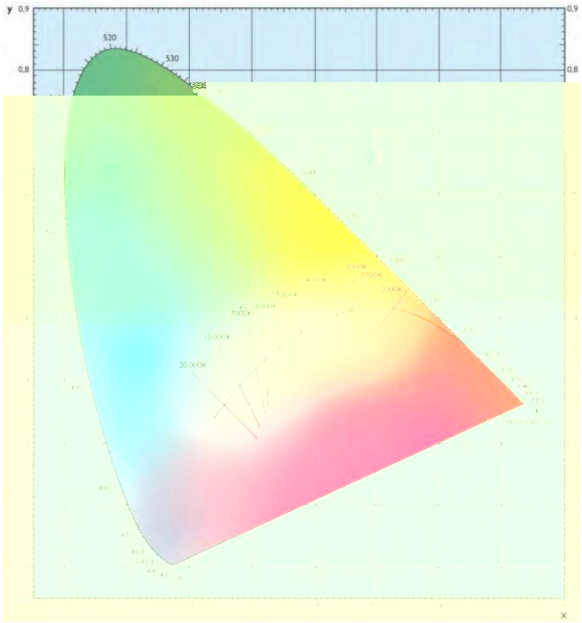
-- **Colour X-value when switch on**

X k **0...1**

-- **Colour Y-value when switch on**

Y k **0...1**

0.01/0.01

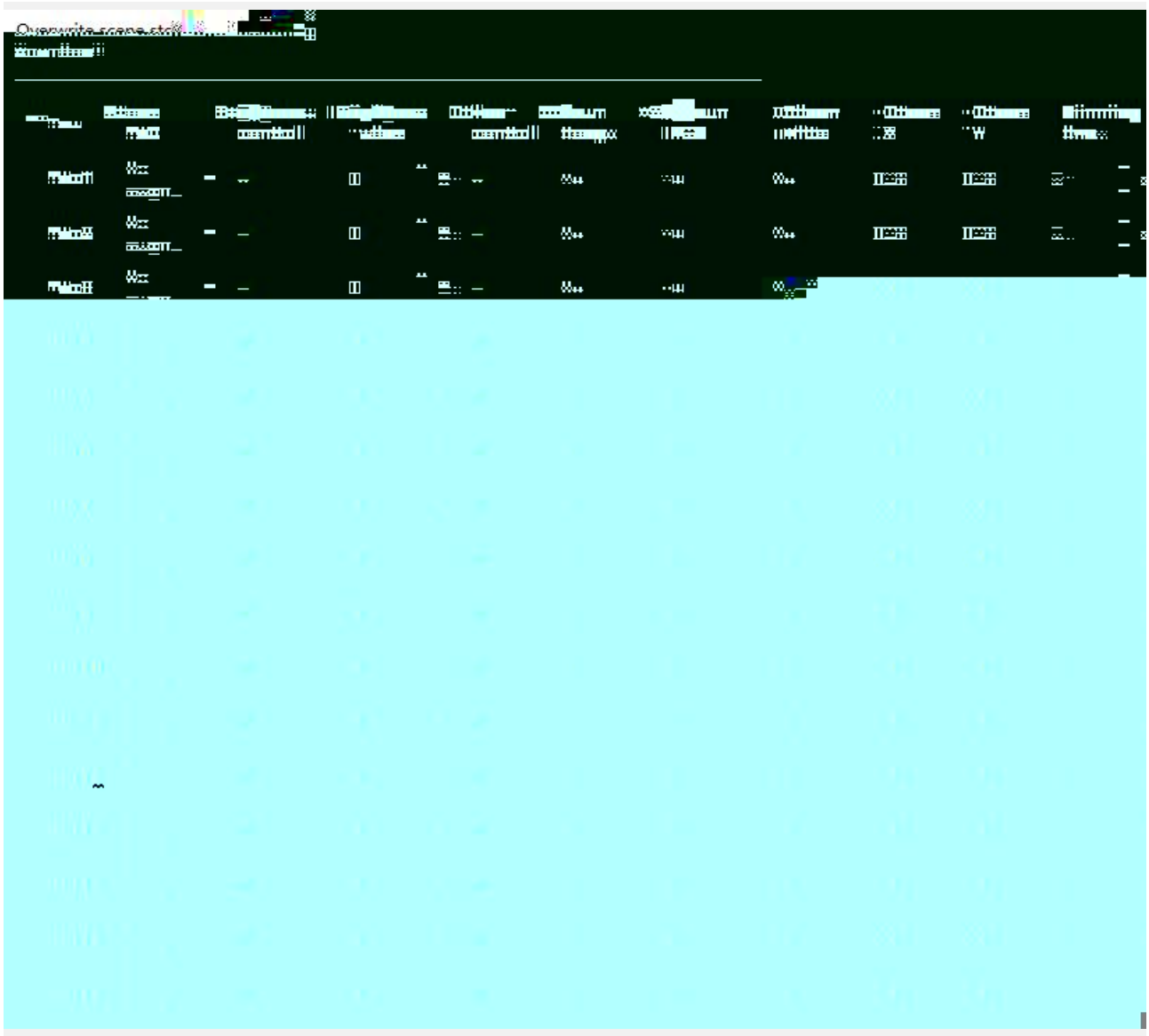


Allow switch on via colour relative dimming

k

5.6.3. □ ”Scene”

□ k



5.6.3 □ “Scene”

□ Overwrite scene stored values during download □

k

□ ETS k

□ ! □ □

□ ! □ !

□ ETS k

□No.□

□ 16 k

□Scene NO.□

KNX k □□

No assignment

1

2

...

64

□Brightness control□

□ □ k

□ **ECG** □ **RGB** **RGBW**□ □

k

□Brightness value□

k □ □! □HSV(Separated objects) !HSVW(Separated objects)□ □ k

□ **□0...100%□** □ □ **□NA□** k

□Colour control□

□ □ □ □ k

□ □ □ **k**

□Colour temp.□

k □ □ □ □ **□Colour**

Temperature □ □Colour control□ □ k □ □1000...10000K□ □

□ **□NA□** k

□Colour RGB/RGBW□

RGB/RGBW □ k □ □ □ □

□RGB/RGBW Colour□ □Colour control□ □ k □ **□000000...FFFFFF□□**

□ **□NA□** k

□Colour White□

k □ □ □ □ **□RGBW Colour□**

□Colour control□ □ □ **□0...100%□** □ □ **□NA□** k

□Colour X□

X □ k □ □ □ □ **□XY**

Temperature □ □Colour control□ □ k □ **□0...1□□** □ **□NA□**k

□Colour Y□

Y □ k □ □ □ □ **□XY**

Temperature □ □Colour control□ □ k □ **□0...1□□** □ **□NA□**k

□Dimming time□

k **□Brightness control□** □ k □

□0...255s□, □ **□NA□** k

5.7. □“ ECG setting”

5.7 □“ECG setting”

□Number of ECGs□

ECG □ k □ □

None

1

2

...

64

□ □ **ECG** □ **ECG X□** □

ECG □ k □ □ **ECG** k

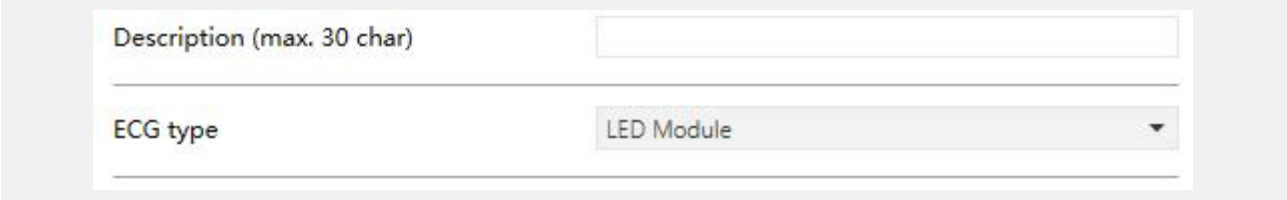
□ **ECG□** □ □ k

5.7.1. □”ECG X”(X=1~64)

“ECG X” □ 5.7.1 □ □ DALI k

KNX-DALI-2 64 DALI □ DALI ! ! ! ! □

k □ DALI □ □ k



5.7.1 □“ECG X”(X=1~64)

□Description (max. 30 char)□

ECG□ 30 k

ECG type

ECG k

LED Module

ECG with Colour control

Relays module

Self-Contained Battery Lamp (non-switchable)

LED Module DT6 LED k 5.7.1.1 k

ECG with Colour control DT8 k 5.7.1.1 5.7.2 k

Relays module DT7 k 2.0 DCA 2.0.0.1 5.7.1.1 k

Self-Contained Battery Lamp (non-switchable) DT1 k

DALI D k

DALI 4 A ! B ! C ! D k

A k

B k

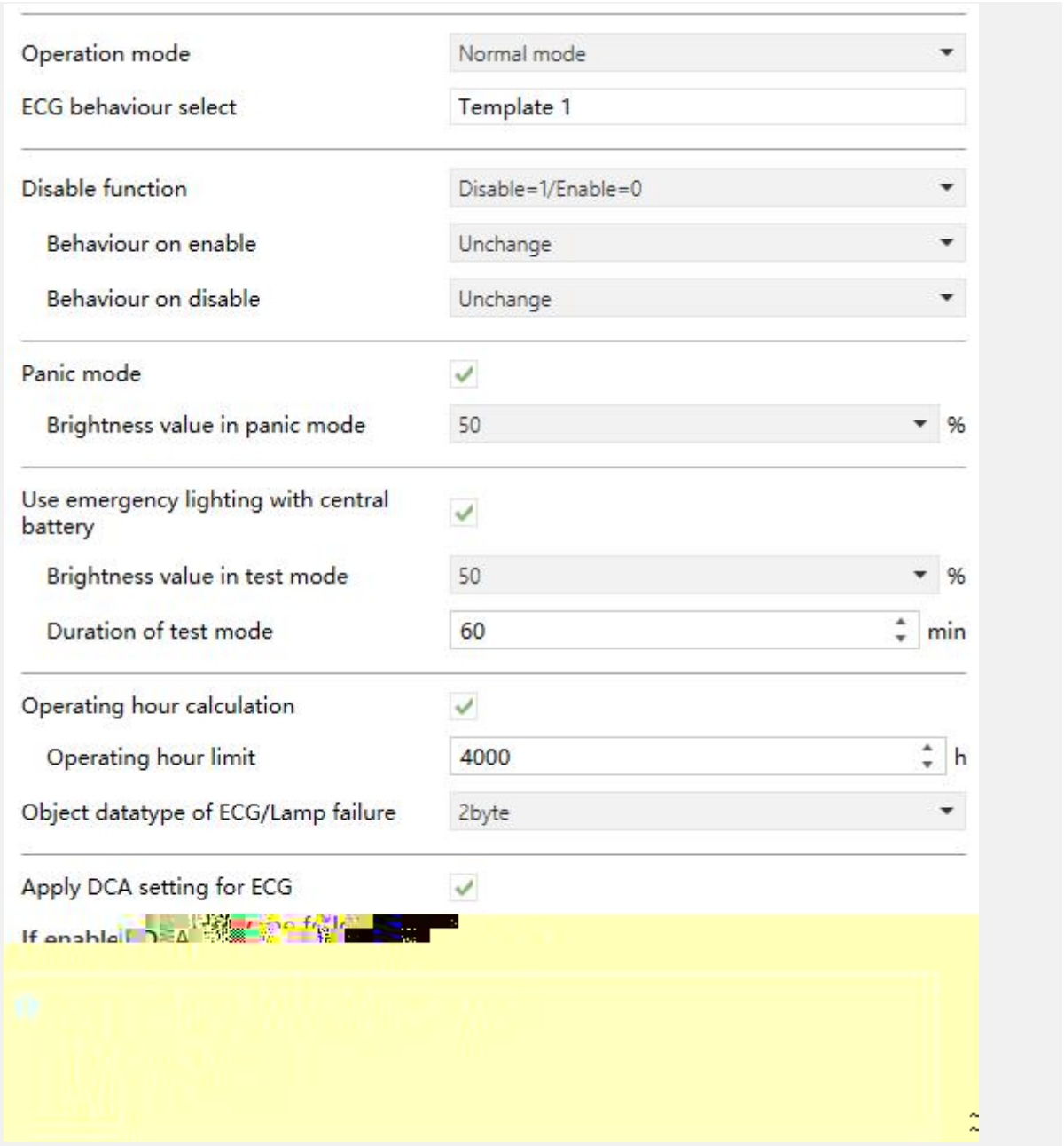
C k

D k

2.0 DCA 2.0.0.1 5.7.1.2 k

5.7.1.1. □LED Module/ECG with Colour control/Relays module□

ECG □LED Module/ECG with Colour control/Relays module□ k



5.7.1 “LED Module/ECG with Colour control/Relays module”

□Operating mode□

ECG k □ □

Normal mode

Permanent mode

Use emergency lighting with central battery

ECG k

k

ECG ECG k

2.0 DCA 2.0.0.1 k

-- **Brightness value in test mode**

k

0%

1%

2%

...

100%

k

k ECG

k

ECG

k k

k

-- **Duration of test mode**

k **5..255 min**

Operating hour calculation

ECG k

-- **Operating hour limit**

k Life time

exceeded □ k □ □ **0..200000h**

□ □ **5min** □ □ □

□ □ □ k

□ Object datatype of ECG/Lamp failure □

ECG □ k □ □

1bit

1byte

2byte

1bit □ □ □ □ ECG □ □ □ 1 □ k

1byte □ □ □ bit7-ECG □ □ bit6- □ □ bit5-bit0 □ ECG 1..64 k

2byte □ □ □ bit 8 1 □ □ bit 9 1 ECG □ □ bit 10 1

□ k

1byte □

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
ECG □	□			ECG 1..64			

□

1.1000 0011 □ 131 □ ECG4 ECG □ □

2.0100 0010 □ 66 □ ECG3 □ □

ECG □ □ □ Bit7 Bit6 1 □

ECG x □ □ □

ECG3 □ □ 1100 0010 □ 194 □

ECG3 ECG □ □ □ 1000 0010 □ 130 □

2byte □

Bit 11...Bit15	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 0-Bit 5
0	0 □ □ 1 □ □	0 □ □ 1 □ ECG □	0 □ □ 1 □ □	0 □ 1 □	0 □ 1 □	DALI 1...64 DALI 0...15

□ □ □ □ k

ECG □ □ DALI □ □ k

□ Apply DCA setting for ECG □

DCA ECG k □ □ DCA

□ □ □ ! DALI □ □ ETS □ □

Value on DALI power fail(DALI System Failure Level)
Value on ECG power recovery(DALI Power On Level)
Minimum brightness value
Maximum brightness value
Fade time

Minimum physical colour temperature
Maximum physical colour temperature
Minimum colour temperature control
Maximum colour temperature control

5.7.1.2. □Self-Contained Battery Lamp (non-switchable)□

ECG □Self-Contained Battery Lamp (non-switchable)□ k

5.7.3 “Self-Contained Battery Lamp (non-switchable)”

□Emergency mode behaviour select□

□ k □□

Template 1

...

Template 8

! □ k

ECG □ k □ k

□Object datatype of ECG/Lamp failure□

ECG □ k □□

1bit

1byte

2byte

□ 5.7.1.1□ k

5.7.2. □"Colour control"

ECG □ECG with Colour control□ □ k

5.7.2 "Colour control"

□Colour control type□

ECG □ k □□

Colour Temperature

RGB Colour

RGBW Colour

XY Colour

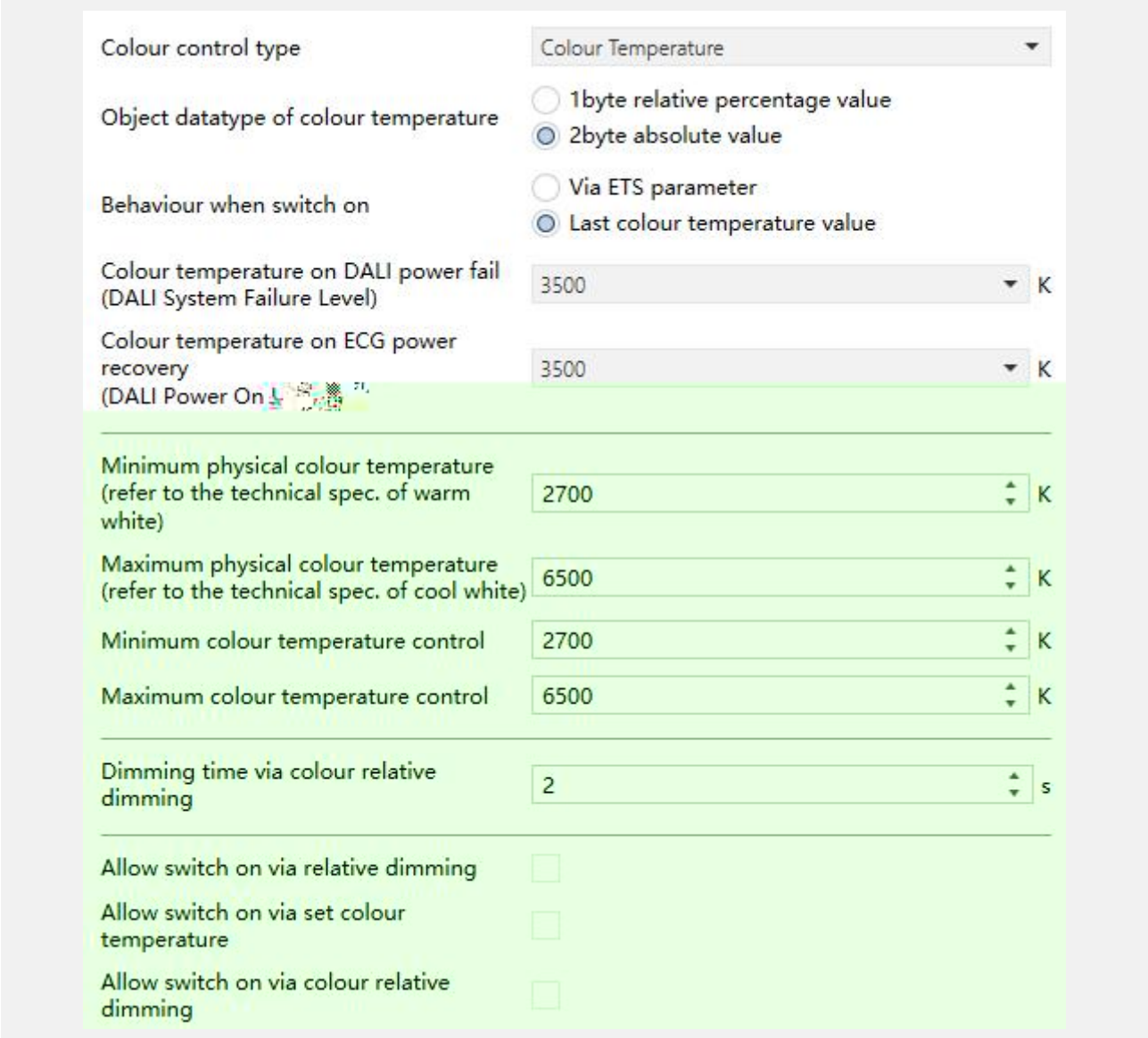
Colour Temperature□ □ k

RGB Colour□RGB □ k

RGBW Colour□RGBW □ k

XY Colour□XY □ □ □ k

5.7.2.1. □ “Colour Temperature”



5.7.2.1 “Colour Temperature”

□Object datatype of colour temperature□

k □ □

1byte relative percentage value

2byte absolute value

□Behaviour when switch on□

ECG □ k □ □

Via ETS parameter

Last colour temperature value

Via ETS parameter □ ECG “Switch” k

Last colour temperature value □ECG “Switch” □

□ □ 4000K □ 50% k

-- **□ Colour temperature when switch on □**

□ Via ETS parameter □ □ k □ □ **1000...10000K**

□Minimum physical colour temperature (refer to the technical spec. Of warm white)□

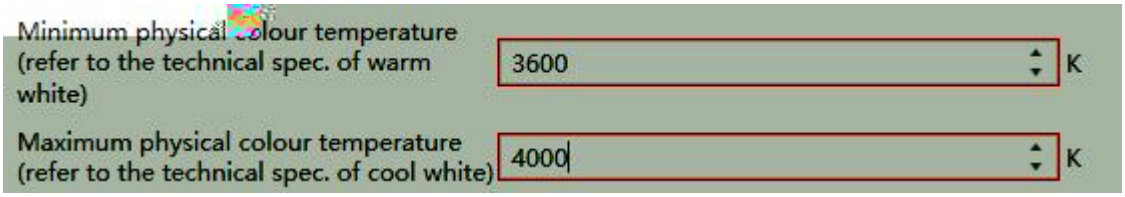
□Maximum physical colour temperature control (refer to the technical spec. Of warm white)□

ECG / k / □ □ /

k □ □ **1000...10000K**

□ □ □ □

□ETS k



□Minimum colour temperature control□

□Maximum colour temperature control□

ECG / k KNX-DALI-2 / □ k

□ □ **1000...10000K**

□ □ **□ETS** k

□Dimming time via colour relative dimming□

□ k □ □ **1...255s**

□Allow switch on via relative dimming□

□ k

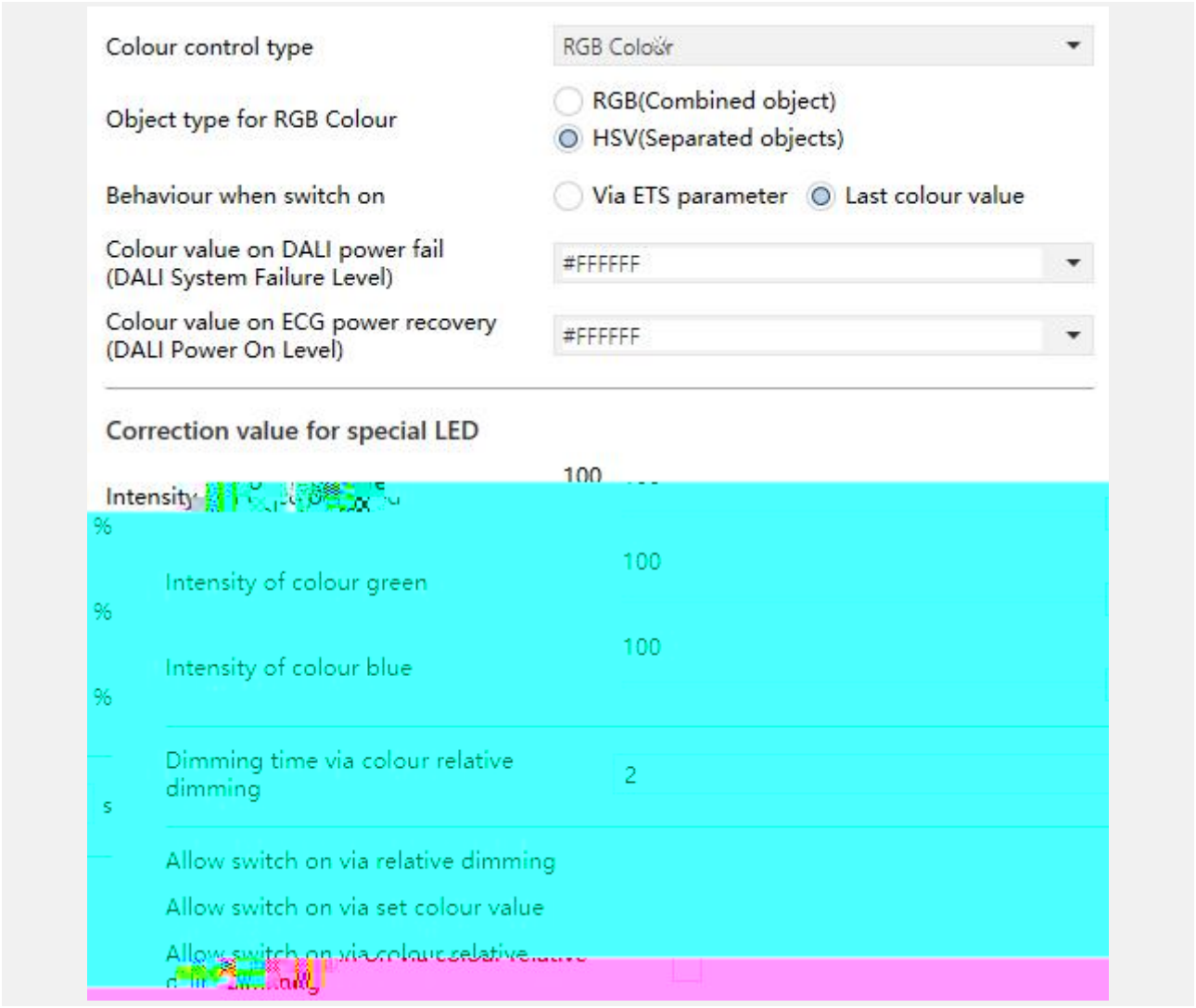
□Allow switch on via set colour temperature□

□ k

□Allow switch on via colour relative dimming□

□ k

5.7.2.2. □ “RGB Colour”



5.7.2.2 “RGB Colour”

□Object type for RGB Colour□

RGB k □ □

RGB(Combined object)

HSV(Separated objects)

□Behaviour when switch on□

ECG □ □ k □ □

Via ETS parameter

Last colour value

Via ETS parameter□ECG “Switch” □ k

Last colour value□ECG “Switch” □ □ □ □

□ □ 50% k

-- **□Colour value when switch on□**

□Via ETS parameter□ □ □ k □ □**000000...FFFFFF**

□Colour value on DALI power fail (DALI System Failure Level)□

DALI □ k ECG □ ECG

□ k □ □

#FFFFFF **#FFFF00** □

#7F7F7F **#00FFFF** □

#FF0000 **#FF00FF**

#00FF00 **Unchange**

#0000FF

Unchange□ □ □ DALI □ □ □ k

□ **2.0** □ **DCA** **2.0.0.1** k

□Colour value on ECG power recovery (DALI Power On Level)□

ECG □ k ECG □ ECG ECG

□ k □ □

#FFFFFF **#FFFF00**

#7F7F7F **#00FFFF**

#FF0000 **#FF00FF**

#00FF00 **Value before failure**

#0000FF

Value before failure ECG k

2.0 DCA 2.0.0.1 k

Correction value for special LED

Intensity of colour red

Intensity of colour green

Intensity of colour blue

/ / k **0...100%**

0% **0%** k

Dimming time via colour relative dimming

RGB HSV(Separated objects) k

k **1...255s**

Allow switch on via relative dimming

k

Allow switch on via set colour value

RGB HSV(Separated objects) k

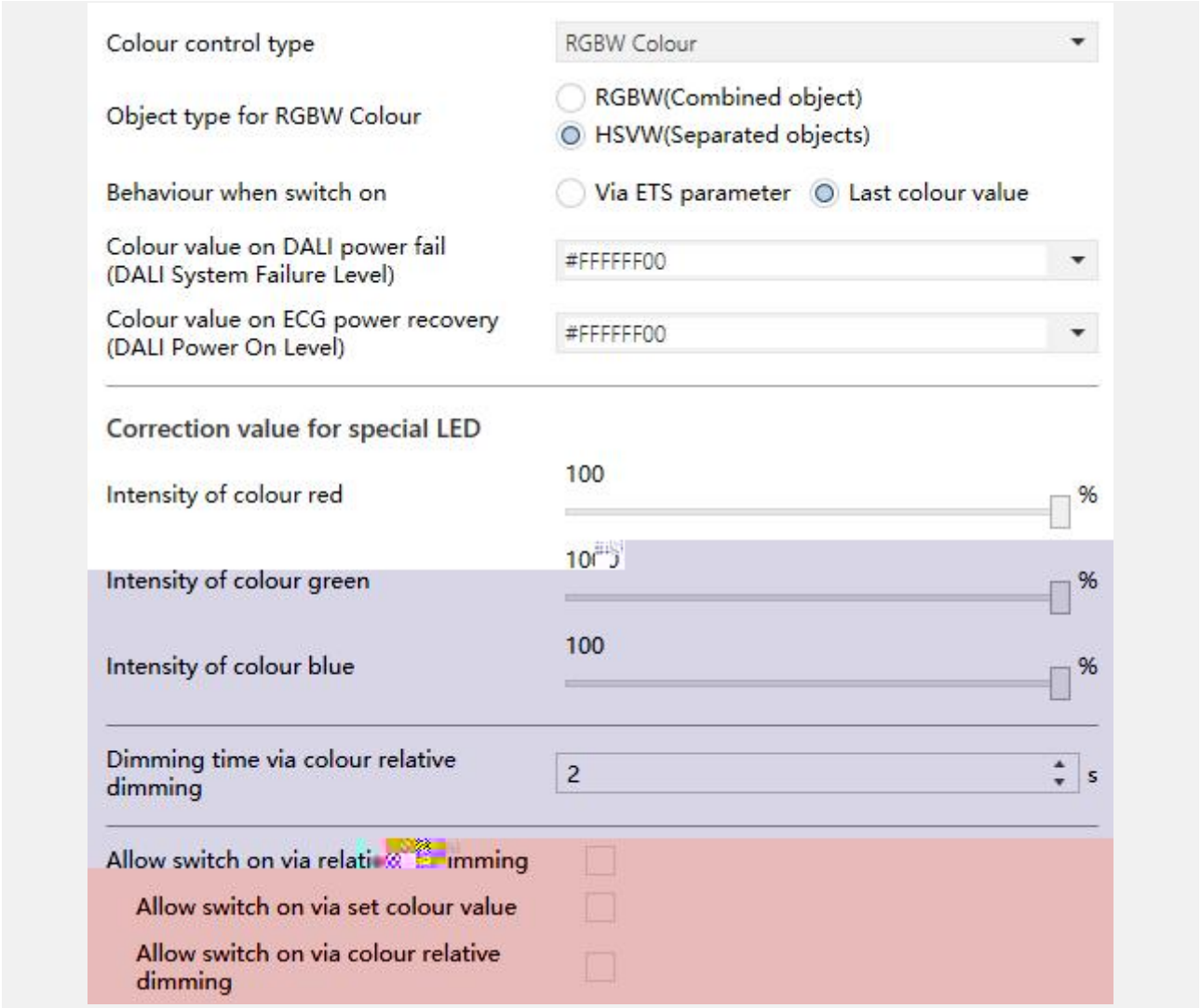
k

□Allow switch on via colour relative dimming□

RGB □HSV(Separated objects)□ □ k □ □

k

5.7.2.3.□ “RGBW Colour”



5.7.2.3 “RGBW Colour ”

□Object type for RGBW Colour□

RGBW k □□

RGBW(Combined object)

HSVW(Separated objects)

□Behaviour when switch on□

ECG □ □ k □ □

Via ETS parameter

Last colour value

Via ETS parameter □ ECG “Switch” □ k

Last colour value □ ECG “Switch” □ □ □ □

□ □ □W□ 50% k

□Via ETS parameter□ □ □

-- □Colour value when switch on□

□ k □ □**000000...FFFFFF**

-- □Additional White value□

k □ □**0...100%**

□Colour value on DALI power fail (DALI System Failure Level)□

DALI □ k ECG □ ECG

□ k □ □

#FFFFFF00

#7F7F7F00

#FF000000

#00FF0000

#0000FF00

#FFFF0000 □

#00FFFF00 □

#FF00FF00

Unchange

Unchange □ □ □ DALI □ □ □ k

□ **2.0** □ **DCA** **2.0.0.1** k

Colour value on ECG power recovery (DALI Power On Level)

ECG k ECG ECG ECG

k

#FFFFFF00
#7F7F7F00
#FF000000
#00FF0000
#0000FF00
#FFFF0000
#00FFFF00
#FF00FF00
Value before failure

Value before failure ECG k

2.0 DCA 2.0.0.1 k

Correction value for special LED

Intensity of colour red

Intensity of colour green

Intensity of colour blue

/ / k **0...100%**

0% **0%** k

Dimming time via colour relative dimming

RGBW HSVW(Separated objects) k

k **1...255s**

Allow switch on via relative dimming

k

□Allow switch on via set colour temperature□

RGBW □HSVW(Separated objects)□ □ k □

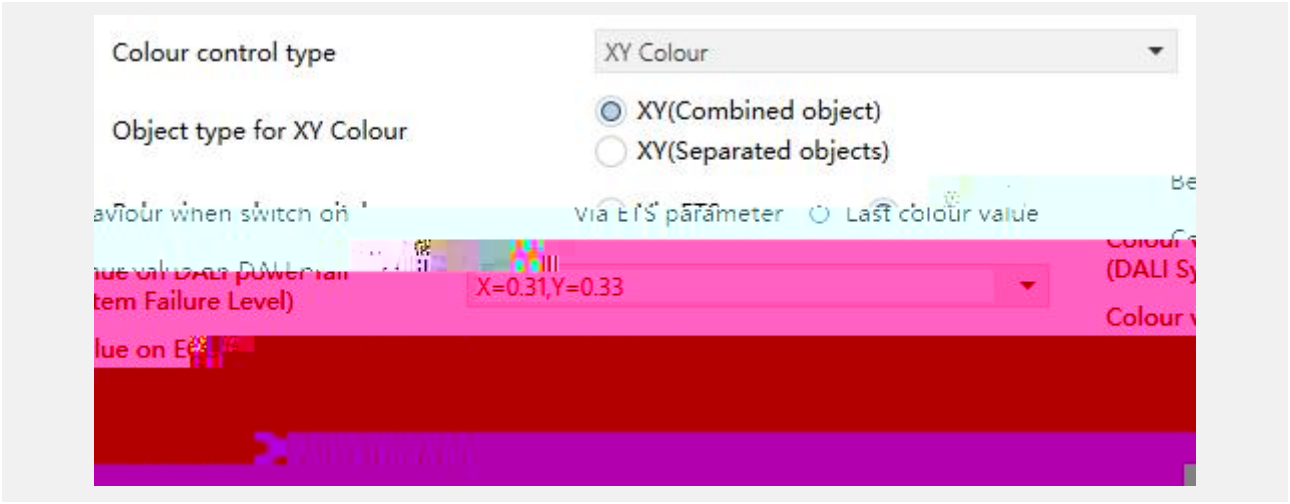
□ k

□Allow switch on via colour relative dimming□

RGBW □HSVW(Separated objects)□ □ k □ □

k

5.7.2.4.□ “XY Colour”



5.7.2.4 “XY Colour”

□Object type for XY Colour□

XY □ k □ □

XY(Combined object)

XY(Separated objects)

□Behaviour when switch on□

ECG □ □ k □ □

Via ETS parameter

Last colour value

Via ETS parameter □ ECG “Switch” □ k

Last colour value □ ECG “Switch” □ □ □ □

□ □ 50% k

□ Via ETS parameter □ □ □

-- □ Colour X-value when switch on □

X □ k □ □ **0...1**

-- □ Colour Y-value when switch on □

Y □ k □ □ **0...1**

□ X+Y □ □ 1 k

□ Colour value on DALI power fail (DALI System Failure Level) □

DALI □ k ECG □ ECG

□ k □ □

X=0.31,Y=0.33	**X=0.42,Y=0.52 □**
X=0.31,Y=0.31	**X=0.17,Y=0.37 □**
X=0.64,Y=0.33	**X=0.28,Y=0.14**
X=0.30,Y=0.60	**Unchange**
X=0.15,Y=0.06	

Unchange □ □ □ DALI □ □ □ k

□ **2.0** □ **DCA** **2.0.0.1** k

□ Colour value on ECG power recovery (DALI Power On Level) □

ECG □ k ECG □ ECG ECG □

k □ □

X=0.31,Y=0.33	**X=0.42,Y=0.52** □
X=0.31,Y=0.31	**X=0.17,Y=0.37** □
X=0.64,Y=0.33	**X=0.28,Y=0.14**
X=0.30,Y=0.60	**Unchange**
X=0.15,Y=0.06	

Value before failure □ □ □ ECG □ k

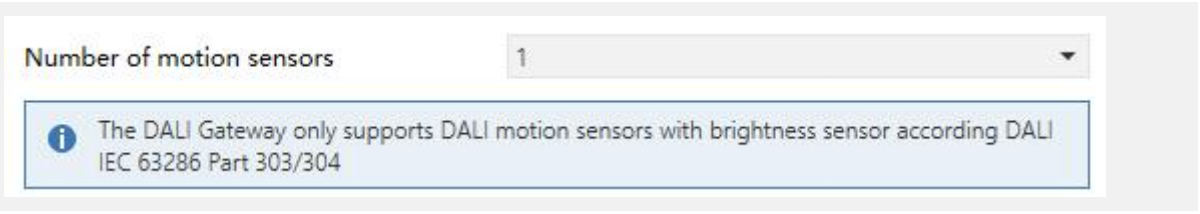
□ **2.0** □ **DCA** **2.0.0.1** k

□Allow switch on via colour relative dimming□

□ □ k

5.8. □”Motion sensor setting”

□ 2.0 □ DCA 2.0.0.1 k



5.8 □“Motion sensor setting”

□Number of movement detectors□

□□ 8 k□ □

□ □k □□

None

1

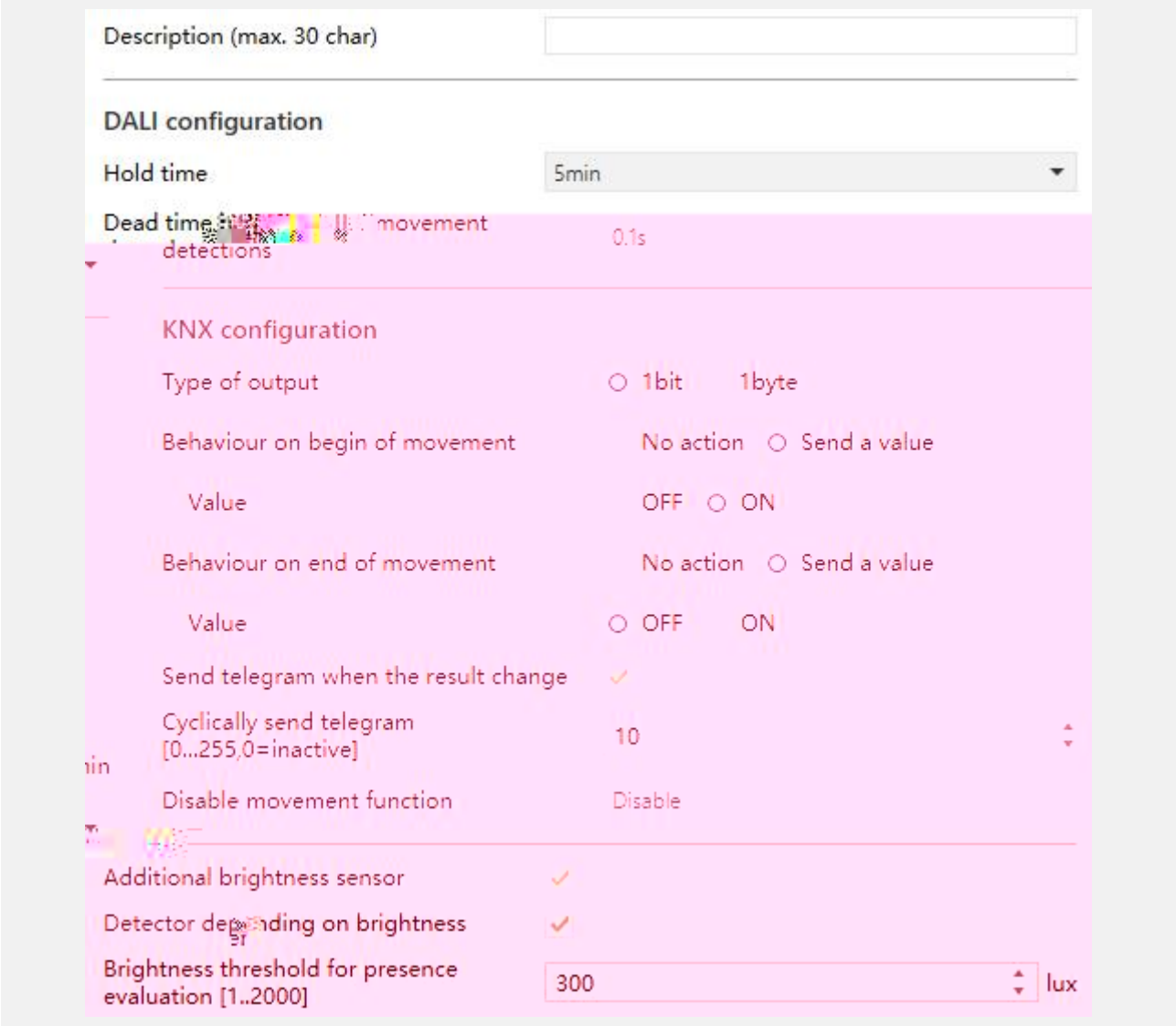
2

...

8

□ IEC 62386 303/304 DALI k

5.8.1. □"Motion sensor X"(X=1~8)



5.8.1 □"Motion sensor X"

□Description (max.30 char)□

□ 30 k

DALI configuration

□Hold time□

k □ □ □ □

k □□

1s

1min

...

35min

40min

□ Dead time between movement detections □

□ □ k □ □

None

0.1s

0.2s

0.5s

1s

2s

KNX configuration

□ Type of output □

k □ □

1bit

1byte

□ Object datatype □

1byte k □ □

1byte percentage value

1byte unsigned value

Scene number

□ Behaviour on begin of movement □

□ Behaviour on end of movement □

/ k □ □

No action

Send a value

□Value□

/ k □ k

1bit □ □□

OFF

ON

1byte percentage value □ □□

0%

1%

...

100%

1byte unsigned value □ □□ **0..255**

Scene number □ □□

Scene NO.1

Scene NO.2

...

Scene NO.64

□Send telegram when the result change□

k

□Cyclically send telegram [0...255,0=inactive]□

k □□ **0..255 min**

□Disable movement function□

k □□

Disable

Disable=1/Enable=0

Disable=0/Enable=1

□Additional brightness sensor□

k

□Detector depending on brightness□

□ k k

□Brightness threshold for presence evaluation [1..2000]□

□ k □ k □ □

k □ □**1..2000 lux**

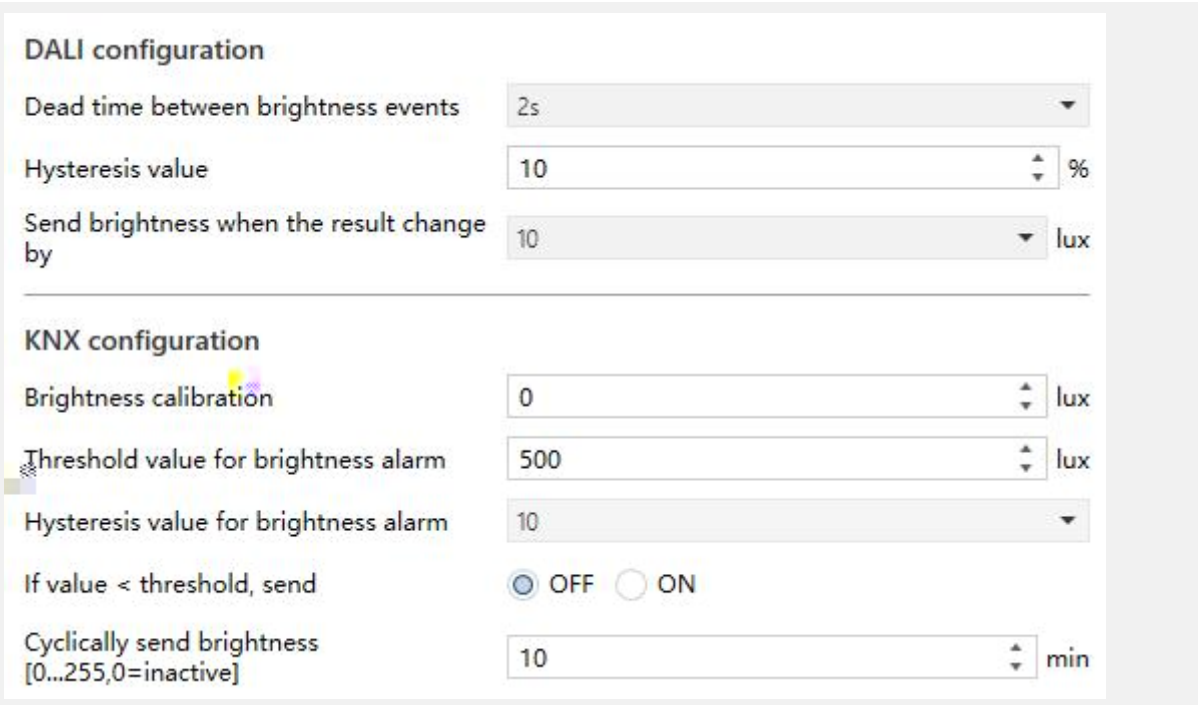
□1. □ □ k

2. DALI □ □

□ k

5.8.2. □"Brightness sensor"

□ □□ k



5.8.2 □"Brightness sensor"

DALI configuration

Dead time between brightness events

k

None

1s

2s

...

10s

Hysteresis value

k

0...25 %

Send brightness when the result change by

k

1 lux

2 lux

....

225 lux

250 lux

KNX configuration

Brightness calibration

k

-500...500 lux

Threshold value for brightness alarm

k

5...2000 lux

Hysteresis value for brightness alarm

k

1 lux

2 lux

....

225 lux

250 lux

□ If value < threshold, send □

□ □ - □ k □ □

OFF

ON

□ Cyclically send brightness [0...255,0=inactive] □

k □ □ **0..255 min**

6

□ k □

k

□

□C□ □□W□

□□R□ □□T□ □□U□

k

DALI □ □ DALI 1.2k□ □

7 □ □ □ □

k

6.1.

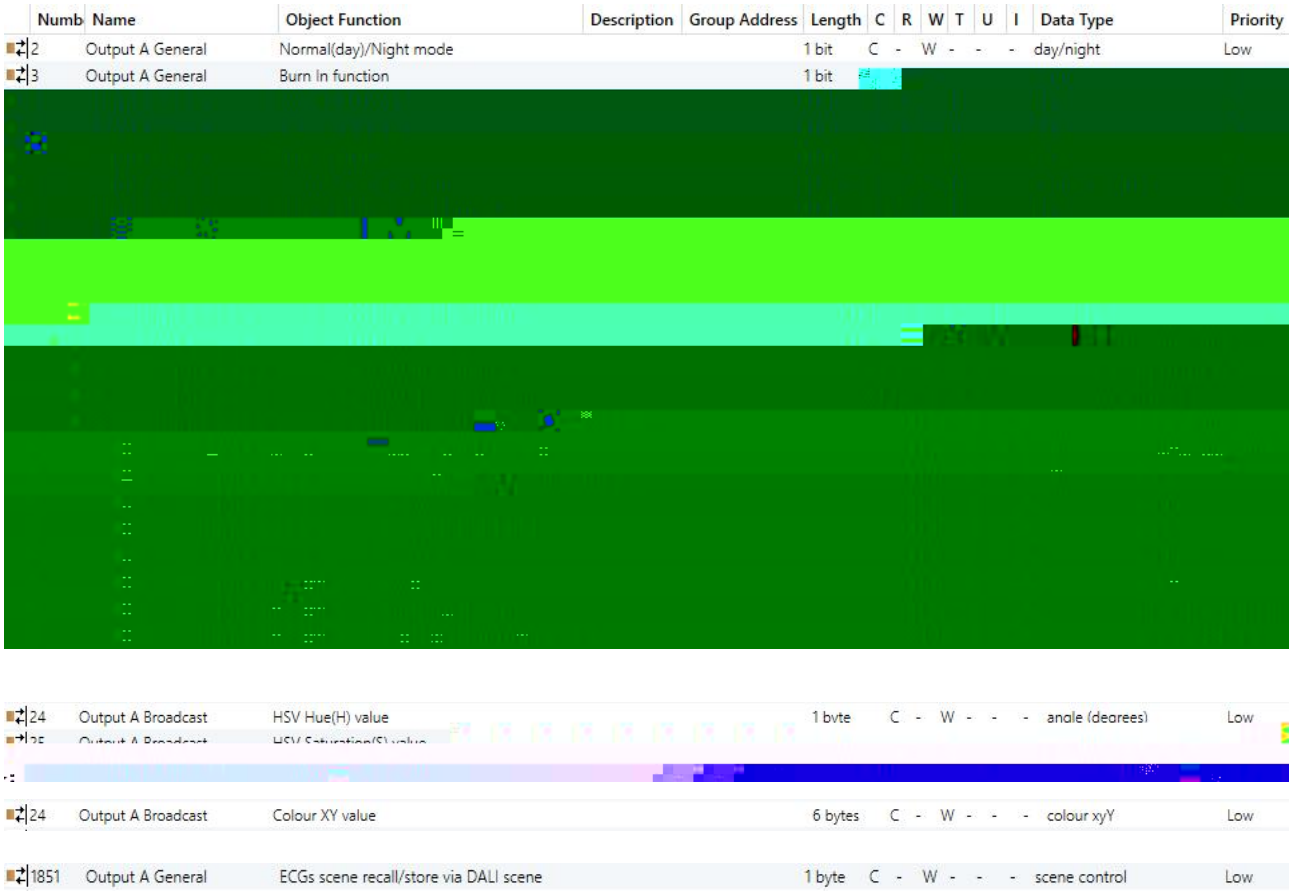
6.1 □General□

					DPT
1	**General**	**In operation**	**1bit**	**C,R,T**	**1.001 switch**
			“1”□	□	

k

6.1 □General□

6.2.



6.2 □X: General□

					DPT
2	**Output X General**	**Normal(day)/Night mode**	**1bit**	**C,W**	**1.024 day/night**
		k		□Normal (day)/Night mode□	k
3	**Output X General**	**Burn In function**	**1bit**	**C,W**	**1.010 start/stop**
		k □ ! □ k k □ □ □ □ □ □ k			
4	**Output X General**	**DALI short circuit**	**1bit**	**C,R,T**	**1.005 alarm**
	Failure object "DALI short circuit" k			DALI k	

□

1—— DALI

0——DALI

5 Output X General DALI power supply 1byte C,R,T 1.005 alarm

Failure object "DALI power supply" k DALI k □

1 DALI

0 DALI

6 Output X General General failure 1bit C,R,T 1.005 alarm

General failure object "General failure" k DALI □ k

□ □ □1□ □ □ □ □0□ k

7 Output X General Lamp/ECG Failure status 1byte C,W,T 238.600 DALI Diagnostics

Central failure object "Lamp/ECG Failure status" k ECG □ □1byte

□

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
ECG □	□	ECG 1..64□ 0..63□					

□

1. □ ECG3 □ □1100 0010□ 194□

2. ECG3 ECG □□ □1000 0010□ 130□

□ Bit7 Bit6 1 □ ECG □ ECG □□

ECG □□ ECG □ □ □ k

8 Output X General General failure exceeds threshold 1bit C,R,T 1.005 alarm

ECG □ □ k

9	**Output X General**	**General failure in Total**	**1byte**	**C,R,T**	**5.010 counter pulses**
ECG □ k □ **ECG** □ □□ □ **ECG** □ □ □ k					
9	**Output X General**	**General failure in %**	**1byte**	**C,R,T**	**5.001 percentage(0..100%)**
□ □ □ DALI k ECG k □ **ECG** □ □□ □ **ECG** □ □ □ k					
10	**Output X General**	**Lamp failure exceeds threshold**	**1bit**	**C,R,T**	**1.005 alarm**
□ □ k					
11	**Output X General**	**Lamp failure in Total**	**1byte**	**C,R,T**	**5.010 counter pulses**
□ k					
11	**Output X General**	**Lamp failure in %**	**1byte**	**C,R,T**	**5.001 percentage(0..100%)**
□ □ □ DALI □ k					
12	**Output X General**	**ECG failure exceeds threshold**	**1bit**	**C,R,T**	**1.005 alarm**
ECG □ □ k					
13	**Output X General**	**ECG failure in Total**	**1byte**	**C,R,T**	**5.010 counter pulses**
ECG □ k					
13	**Output X General**	**ECG failure in %**	**1byte**	**C,R,T**	**5.001 percentage(0..100%)**
□ □ □ ECG DALI ECG □ k					
14	**Output X General**	**Read DALI bus voltage(V)**	**4byte**	**C,R**	**14.027 electric potential(V)**
Object "Read DALI bus voltage□ k DALI k					

15	**Output X General**	**Read DALI bus current(mA)**	**2byte**	**C,R**	**7.012 current(mA)**
Object "Read DALI bus current □ k DALI k					
16	**Output X General**	**Global scene recall/store via KNX scene**	**1byte**	**C,W**	**18.001 scene control**

k DALI 16 k

KNX DCA □ □ /

! □ k 64 k KNX □

8bit ( ) □ FXNNNNNN

F: '0' □ '1' □

X □ 0 □

NNNNNN □ □ 0...63 □ k

□ KNX No.1~64 □ □ 0~63 k □

KNX No.1	0	128
KNX No.2	1	129
KNX No.3	2	130
...	...	...
KNX No.64	63	191

□ KNX No.1 □ 0 k

17	**Output X General**	**Converter failure in Total**	**1byte**	**C,R,T**	**5.010 counter pulses**
□ k					
17	**Output X General**	**Converter failure in %**	**1bit**	**C,R,T**	**5.001 percentage(0..100%)**
□ □ □ DALI □ k					

18	**Output X General**	**Converter failure exceeds threshold**	**1bit**	**C,W**	**1.005 alarm**
		□		□ k	
19	**Output X General**	**Test mode**	**1bit**	**C,W**	**1.010 start/stop**
		/ ECG k □ 1—— 0—— □ □ ECG □ k			
20	**Output X General**	**Converter inhibit mode**	**1bit**	**C,W**	**1.011 state**
		/ k □ 1—— 0—— □ □ □ k □ □ □ k			
21	**Output X General**	**Panic mode**	**1bit**	**C,W**	**1.010 start/stop**
		/ ECG □ ECG □ k □ 1—— 0——			
22	**Output X Broadcast**	**Switch**	**1bit**	**C,W**	**1.001 switch**
		□Broadcast control function□ k □ □ k ECG □ 100%□ 0% k □ 1——ON 0——OFF			

ECG □ □ **DALI** **ECG**

□ k

23	**Output X Broadcast**	**Brightness dimming**	**1byte**	**C,W**	**5.001 percentage(0..100%)**

□ k

□0…100%

24	**Output X Broadcast**	**Absolute colour temperature**	**2byte**	**C,W**	**7.600 absolute colour temperature**

□ □Colour Temperature□ k □ k

24	**Output X Broadcast**	**RGB colour value**	**3byte**	**C,W**	**232.600 RGB value**
		RGBW colour value	**6byte**		**3x(0..255)**
		HSV Hue(H) value	**1byte**		**251.600 RGBW value**
					4x(0...100%)
					5.003 angle(degrees)
24	**Output X Broadcast**	**Colour XY value**	**6byte**	**C,W**	**242.600 Colour xyY**
		Colour X value	**2byte**		**7.001 pulses**
25	**Output X Broadcast**	**Colour Y value**	**2byte**	**C,W**	**7.001 pulses**
25	**Output X Broadcast**	**HSV Saturation(S) value**	**1byte**	**C,W**	**5.001 percentage**
26	**Output X Broadcast**	**White colour value**	**1byte**	**C,W**	**5.001 percentage**

□ k □ k

RGB colour value RGB

RGBW colour value RGBW

White colour value HSVW

HSV Hue(H) value HSV □ 0-..360-

HSV Saturation(S) value HSV □ □

Colour XY value□ x y k

Colour X value□ x k

Colour Y value□ y k

1851	Output X General	ECGs scene recall/store via DALI scene	1byte	C,W	18.001 scene control

KNX DALI k DALI □ 16 k

DCA □ 16 k □

8bit ( )□FXNNNNNN

F: ‘0’ □ ‘1’ □

X□0□

NNNNNN□ □0…15□ k

□ 1st~16th□ □ 0~15 k □

1st	0	128
2nd	1	129
3rd	2	130
…	…	…
16th	15	143

□ 1st□ 0

6.2 □X: General□

6.3.

16 □ □ □ □ □

	Numb	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	I	Data Type	Priority
	27	Output A Group 1-...	Disable function			1 bit	C	-	W	-	-	-	enable	Low
	28	Output A Group 1-...	Switch			1 bit	C	-	W	-	-	-	switch	Low
	29	Output A Group 1-...	Relative dimming			4 bit	C	-	W	-	-	-	dimming control	Low
	30	Output A Group 1-...	Brightness dimming			1 byte	C	-	W	-	-	-	percentage (0..100%)	Low
	31	Output A Group 1-...	Switch status			1 bit	C	R	-	T	-	-	switch	Low
	32	Output A Group 1-...	Brightness status			1 byte	C	R	-	T	-	-	percentage (0..100%)	Low
	33	Output A Group 1-...	Absolute colour temperature			2 bytes	C	-	W	-	-	-	absolute colour temperat...	Low
	36	Output A Group 1-...	Relative colour Temperature			4 bit	C	-	W	-	-	-	dimming control	Low
	40	Output A Group 1-...	Absolute colour temperature, status			2 bytes	C	R	-	T	-	-	absolute colour temperat...	Low
	43	Output A Group 1-...	Group scene recall/store via KNX scene			1 byte	C	-	W	-	-	-	scene control	Low

Colour Temperature

33	Output A Group 1-...	RGB colour value	3 bytes	C	-	W	-	-	RGB value 3x(0..255)	Low
40	Output A Group 1-...	RGB colour value, status	3 bytes	C	R	-	T	-	RGB value 3x(0..255)	Low

RGB(Combined object)

33	Output A Group 1-...	HSV Hue(H) value	1 byte	C	-	W	-	-	angle (degrees)	Low
34	Output A Group 1-...	HSV Saturation(S) value	1 byte	C	-	W	-	-	percentage (0..100%)	Low
40	Output A Group 1-...	HSV Hue(H) value, status	1 byte	C	R	-	T	-	angle (degrees)	Low
41	Output A Group 1-...	HSV Saturation(S) value, status	1 byte	C	R	-	T	-	percentage (0..100%)	Low

RGB(Separated objects)

33	Output A Group 1-...	RGBW colour value	6 bytes	C	-	W	-	-	RGBW value 4x(0..100%)	Low
40	Output A Group 1-...	RGBW colour value, status	6 bytes	C	R	-	T	-	RGBW value 4x(0..100%)	Low

RGBW(Combined object)

36	Output A Group 1-...	Relative HSV Hue(H) value	4 bit	C	-	W	-	-	dimming control	Low
37	Output A Group 1-...	Relative HSV Saturation(S) value	4 bit	C	-	W	-	-	dimming control	Low
40	Output A Group 1-...	HSV Hue(H) value, status	1 byte	C	R	-	T	-	angle (degrees)	Low
	Output A Group 1-...	HSV Saturation(S) value, status	1 byte	C	R	-	T	-	percentage (0..100%)	Low
	Output A Group 1-...	White colour value, status	1 byte	C	R	-	T	-	percentage (0..100%)	Low

RGBW(Separated objects)

33	Output A Group 1-...	Colour XY value	6 bytes	C	-	W	-	-	colour xyY	Low
40	Output A Group 1-...	Colour XY value, status	6 bytes	C	R	-	T	-	colour xyY	Low

XY(Combined object)

33	Output A Group 1-...	Colour X value	2 bytes	C	-	W	-	-	pulses	Low
34	Output A Group 1-...	Colour Y value	2 bytes	C	-	W	-	-	pulses	Low
40	Output A Group 1-...	Colour X value, status	2 bytes	C	R	-	T	-	pulses	Low
41	Output A Group 1-...	Colour Y value, status	2 bytes	C	R	-	T	-	pulses	Low

XY(Separated objects)

6.3 □X: Group□

					DPT
27	**Output X Group y-{{...}}**	**Disable function**	**1bit**	**C,W**	**1.003 enable**

□ Disable function □ k / □ □ □ □

k

□ “Description (max 30char.)” □ □ □ “Output X Group y-...” k k

28	**Output X Group y-{{...}}**	**Switch**	**1bit**	**C,W**	**1.001 Switch**

□ y=1..16 k

□ Switch on □ k 5.4.1 k

29	**Output X Group y-{{...}}**	**Relative dimming**	**4bit**	**C,W**	**3.007 dimming control**

k □ Bit4 □Bit 0..3 □Bit 0..3

0 k □

	0	1	2	3	4	5	6	7
		□100%□	□50%□	□25%□	□12%□	□6%□	□3%□	□1%□
	8	9	10	11	12	13	14	15
		□100%□	□50%□	□25%□	□12%□	□6%□	□3%□	□1%□

□ **DALI** □ k □

DALI k

30	**Output X Group y-{{...}}**	**Brightness dimming**	**1byte**	**C,W**	**5.001 percentage(0..100%)**

k

31 0

Colour XY value□ XY

Colour X value□ X

Colour Y value□ Y

36	**Output X Group y-{{...}}**	**Relative colour Temperature**	**4bit**	**C,W**	**3.007 dimming control**

k 29□

□ □ 6500K□ 2700K□ 3000K□

50%□ 4900K k □

	0	1	2	3	4	5	6	7
		□100%□	□50%□	□25%□	□12%□	□6%□	□3%□	□1%□
	8	9	10	11	12	13	14	15
		□100%□	□50%□	□25%□	□12%□	□6%□	□3%□	□1%□

□ **DALI** □ k

36	**Output X Group y-{{...}}**	**Relative HSV Hue(H) value**	**4bit**	**C,W**	**3.007 dimming control**
37	**Output X Group y-{{...}}**	**Relative HSV Saturation(S) value**	**4bit**	**C,W**	**3.007 dimming control**
38	**Output X Group y-{{...}}**	**Relative white colour value**	**4bit**	**C,W**	**3.007 dimming control**

□ □ □ k

40	**Output X Group y-{{...}}**	**Absolute colour temperature, status**	**2byte**	**C,R,T**	**7.600 absolute colour temperature**
k					
40	**Output X Group y-{{...}}**	**Relative percentage colour temperature, status**	**1byte**	**C,R,T**	**5.001 percentage(0..100%)**
k					
40	**Output X Group y-{{...}}**	**RGB colour value, status** **RGBW colour value, status** **HSV Hue(H) value, status** **Colour XY value, status** **Colour X value, status**	**3byte** **6byte** **1byte** **6byte** **2byte**	**C,R,T**	**232.600 RGB value 3x(0..255)** **251.600 RGBW value 4x(0...100%)** **5.003 angle(degrees)** **242.600 Colour xyY** **7.001 pulses**
41	**Output X Group y-{{...}}**	**HSV Saturation(S) value, status** **Colour Y value, status**	**1byte** **2byte**	**C,R,T**	**5.001 percentage(0..100%)** **7.001 pulses**
42	**Output X Group y-{{...}}**	**HSV Saturation(S) value, status**	**1byte**	**C,R,T**	**5.001 percentage(0..100%)**
42	**Output X Group y-{{...}}**	**White colour value, status**	**1byte**	**C,R,T**	**5.001 percentage(0..100%)**
□	□	□	k		
43	**Output X Group y-{{...}}**	**Group scene recall/store via KNX scene**	**1byte**	**C,W**	**18.001 scene control**
□ Group scene function □	□	k DALI	16	k	KNX □

8bit ( )□FXNNNNNN

F: ‘0’ □ ‘1’ □

X□0□

NNNNNN□ □0...63□ k

□ 1~64□ □ 0~63 k □

1	0	128
2	1	129
3	2	130
...	...	...
64	63	191

□ 1□ 0 k

6.3 □X: Group□

6.4. DALI

64 DALI k DALI □ □ □

□

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
315	Output A ECG 1-...	Disable function			1 bit	C	-	W	-	-	enable	Low
316	Output A ECG 1-...	Switch			1 bit	C	-	W	-	-	switch	Low
317	Output A ECG 1-...	Relative dimming			4 bit	C	-	W	-	-	dimming control	Low
318	Output A ECG 1-...	Brightness dimming			1 byte	C	-	W	-	-	percentage (0..100%)	Low
319	Output A ECG 1-...	Switch status			1 bit	C	R	-	T	-	switch	Low
320	Output A ECG 1-...	Brightness status			1 byte	C	R	-	T	-	percentage (0..100%)	Low
321	Output A ECG 1-...	Reset Operating hours			1 bit	C	-	W	-	-	reset	Low
322	Output A ECG 1-...	Operating hours			4 bytes	C	R	-	T	-	time lag (s)	Low
323	Output A ECG 1-...	Life time exceeded			1 bit	C	R	-	T	-	alarm	Low
324	Output A ECG 1-...	ECG/Lamp Failure status			2 bytes	C	-	-	T	-	dia	

Fluorescent Lamp

325	Output A ECG 1-...	Relative percentage colour temperature			1 byte	C	-	W	-	-	percentage (0..100%)	Low
328	Output A ECG 1-...	Relative colour Temperature			4 bit	C	-	W	-	-	dimming control	Low
332	Output A ECG 1-...	Relative percentage colour temperature, status			1 byte	C	R	-	T	-	percentage (0..100%)	Low

ECG with Colour control_RGB(Combined object)

325	Output A ECG 1-...	RGB colour value			3 bytes	C	-	W	-	-	RGB value 3x(0..255)	Low
332	Output A ECG 1-...	RGB colour value, status			3 bytes	C	R	-	T	-	RGB value 3x(0..255)	Low
325	Output A ECG 1-...	HSV Hue(H) value			1 byte	C	-	W	-	-	angle (degrees)	Low
326	Output A ECG 1-...	HSV Saturation(S) value			byte	C	-	W	-	-	percentage (0..100%)	Low
328	Output A ECG 1-...	Relative HSV Hue(H) valu										

ECG with Colour control_HSV(Separated objects)

325	Output A ECG 1-...	RGBW colour value			6 bytes	C	-	W	-	-	RGBW value 4x(0..100%)	Low
		RGBW colour value, status			6 bytes	C	R	-	T	-	RGBW value 4x(0..100%)	Low

ECG with Colour control_RGBW(Combined object)

325	Output A ECG 1-...	HSV Hue(H) value			1 byte	C	-	W	-	-	angle (degrees	Low
326	Output A											

ECG with Colour control_HSVW(Separated objects)

325	Output A ECG 1-...	Colour X value			2 bytes	C	-	W	-	-	pulses	Low
326	Output A ECG 1-...	Colour Y value			2 bytes	C	-	W	-	-	pulses	Low
332	Output A ECG 1-...	Colour X value, status			2 bytes	C	R	-	T	-	pulses	Low
333	Output A ECG 1-...	Colour Y value, status			2 bytes	C	R	-	T	-	pulses	Low

ECG with Colour control_XY Colour

□ □ 0□ □ ETS W k □W

k

323	**Output X ECG y-{{...}}**	**Life time exceeded**	**1bit**	**C,R,T**	**1.005 alarm**

□ □ k □

1--

0--

324	**Output X ECG y-{{...}}**	**ECG/Lamp Failure status**	**1bit** **1byte** **2byte**	**C, R,T**	**1.005 alarm** **238.600 DALI Diagnostics** **237.600 DALI_Control_Gear_** **Diagnostics**

Object type of ECG /Lamp failure □ □ ECG □ □

□ k

325	**Output X ECG y-{{...}}**	**Converter, test start**	**1byte**	**C,W**	**20.611 converter test** **control**

! k □

0 :

1 : (FT) □ DALI Cmd.227

2 : (DT) □ DALI Cmd.228

3 : (PDT) □

4 : □ DALI Cmd.229

5 : (FT) □ DALI Cmd.230

6 : (DT) □ DALI Cmd.231

7..255 :

□ DALI k DPT DALI k

k

326	Output X ECG y-{{...}}	Converter, test result	6byte	C,R,T	245.600 DALI converter test result

k LTRF ! LTRP ! SD ! SP ! LDTR □

LTRF	(FT)	0..15	0: 1: 2: 3: □ 4: □ 5: □ 0 6..15:
LTRD	(DT)	0..15	0: 1: 2: 3: □ 4: □ 5: □ 0 6..15:
LTRP	(PDT)	0..15	□ 0
SF	(FT)	0..3	0: 1: 2: 3:

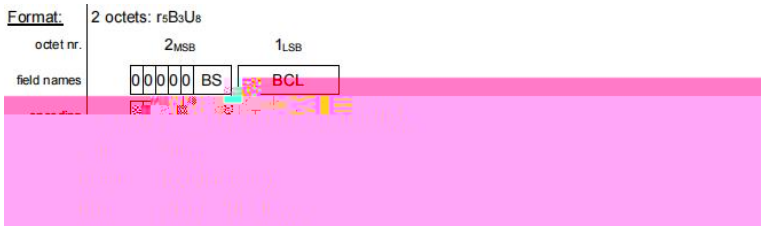
SD	(DT)	0..3	0: 1: 2: 3:		
SP	(PDT)	0..3		□	0
LDTR	(DT)	0..510		□	0
LPDTR	(PDT)	0..255		□	0

□

HS		0..3	0: Hardwired Inhibit 1: Hardwired switch 2..3:
FP		0..3	0: 1: 2: 3:
DP		0..3	FP
PP		0..3	0
CF		0..3	0: 1: 2: 3:

328	**Output X ECG y-{{...}}**	**Converter battery, status**	**2byte**	**C,R,T**	**DTP 246.600 Battery info**

k



BS		0..1	Bit 0: DALI Cmd.252 Bit 1: DALI Cmd.252 Bit 2: Bit 3..7:
BCL		0..255	DALI Cmd.241 0: ` 254: 255:

6.4 X: ECG ECG

325-336 **6.3** k

6.5. DALI

Numb	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	I	Data Type	Priority
1855	DALI A Motion sensor 1-...	Output value,movement			1 bit	C	-	-	T	-	-	switch	Low
1856	DALI A Motion sensor 1-...	Disable function,movement			1 bit	C	-	W	-	-	-	enable	Low
1857	DALI A Motion sensor 1-...	End presence (only off telegram)			1 bit	C	-	W	-	-	-	switch	Low
1858	DALI A Motion sensor 1-...	Failure status,movement			1 bit	C	R	-	T	-	-	alarm	Low
1859	DALI A Motion sensor 1-...	External brightness sensor			2 bytes	C	R	-	T	-	-	lux (Lux)	Low
1860	DALI A Motion sensor 1-...	Output value,brightness alarm			1 bit	C	-	-	T	-	-	alarm	Low

6.5 □DALI X Motion sensor□

					DPT
1855	**DALI X Motion sensor y-{{...}}**	**Output value,movement**	**1bit 1byte**	**C,T**	**1.001 switch 5.001 percentage 5.010 counter pulses 17.001 scene number**
□ k □ “Description (max 30char.)” □ □ □ “DALI X Motion sensor y-...” k k					
1856	**DALI X Motion sensor y-{{...}}**	**Disable function,movement**	**1bit**	**C,W**	**1.003 enable**
□ k					
1857	**DALI X Motion sensor y-{{...}}**	**End presence (only off telegram)**	**1bit**	**C,W**	**1.001 switch**
□ OFF □ □ k ON k					
1858	**DALI X Motion sensor y-{{...}}**	**Failure status,movement**	**1bit**	**C,R,T**	**1.005 alarm**
□ k □ 1 ˚ □ 0 ˚					

1859	**DALI X Motion sensor y-{{...}}**	**External brightness sensor**	**2byte**	**C,R,T**	**9.004 lux(lux)**
k					
1860	**DALI X Motion sensor y-{{...}}**	**Output value,brightness alarm**	**1bit**	**C,T**	**1.005 alarm**
□ □ k					

6.5 □DALI X Motion sensor□