Dimming Actuators_V2.3

KA/D 0103.1

KA/D 0203.1

KA/D 0403.1

KA/D 04.T1.1

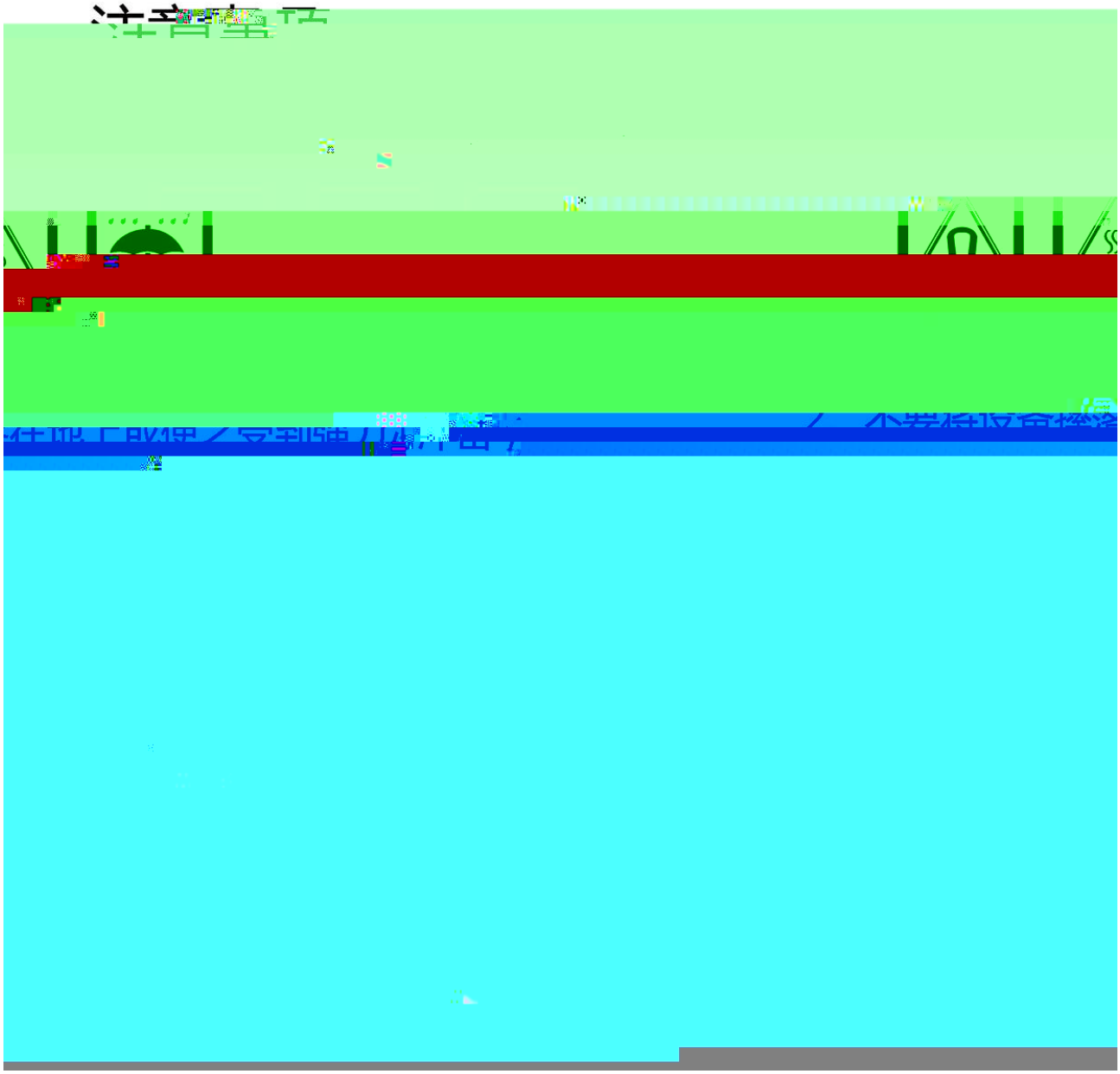
ADTV-04/16.2

KA/D 04.L1.1

ADLD-04/03.1

... ...

KNX/EIB



1.1. 6 5 3
1.2. 0~10V DC 4
1.3. 0/1~10V DC 5
1.4. 350mA LED 6
1.5. 4A LED

3.4. 350мA LED KA/D 04.L1.1 ---------- 27
3.5. 4A LED ADLD-04/03.1 ---------- 32
3.6. KA/D 0400.1 ----------33
3.7. ADDS-02/05.1 ---------- 35
3.8.

k

! 0~10V DC ! 0/1~10V DC ! 350mA LED

! 4A LED ! 4 ! 2 5A ! 2 4 k

! ! k 500W

500W 400W k

k

0~10V DC DC 0-10V 4

23 ECG 23 ECG/18W, 14 ECG/36W, 11

ECG/58W 23 ECG-T5/24W k 230VAC k

0/1~10V DC ¢ DC 0/1-10V 4

23 ECG 23 ECG/18W, 14 ECG/36W, 11

ECG/58W 23 ECG-T5/24W k k

350mA LED LED LED k 4

2 k

350mA/700mA 700mA/1050mA k

4A LED LED LED k 4 k

12V

4 2 5A k 4

2 2 5A 1000

1.1.

! !

LED ! ! k

k

cИ

1.2. 0~10V D

0~10V DC □ □ C 0-10V 0~10V

0~10V LED !

! k

0~10V DC □ □ 4 3

23 ECG/18W, 14 ECG/36W, ECG W 2 CG-T5/2

KNX

k

15

KNX/EIB

!

/

5 KA/D 04.L1.1 k

/ k

k

k

1.5. 4A LED

4A LED LED LED 4 k

LED LED ! ! k

KNX

12V~24V DC LED k

!

15

!

/

5 ADLD-04/03.1 k

/ k

k

k

1.6. 5A

4 2 5A k 4

2 2 5A 1000W

k

LED

! ! k

k

KNX

KNX k

Â

!

· h

5 KA/D 0403.1

1.7.

2 4

k 300W

LED

! ! k

k

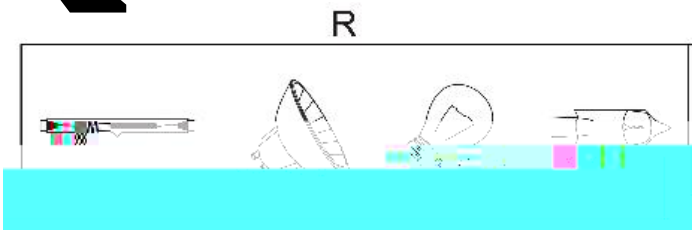
KNX 230V A

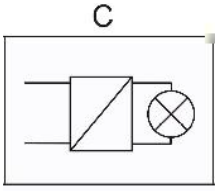
2.1. KA/D xx03.1

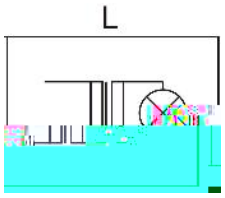
2.1.1.

		21-30V DC KNX
		230 V AC 50/60Hz
		4 /2 /1
	KA/D	0403.1/0203.1/0103.1 230 V AC 50/60Hz 4 400W 1 2 500W 5W
	KNX	KNX
		2 2 L N
	LED	
	LED	
	IP 20 EN 60 529	
		-5 -C ... + 45 -C
		-25 -C ... + 55 -C -25 -C ... + 70 -C
		<93%,
	35mm DIN	
	90Ô72Ô64 mm	
	90Ô144Ô64 mm 90Ô216Ô64 mm	
CE	EMC	
	EIB/KNX	
	0.3kg	
	0.5kg 0.75kg	

2.1







!

k

2.1.3.

k

2.3. 0/1~10V DC ADTV-0 16.2

2.3.1.

30V DC KNX

/

1~10V DC max.100mA

16A /250V AC 10A/250V

140µF

KNX KNX

16 8 4 1~10V 1~10V

8 4

LED

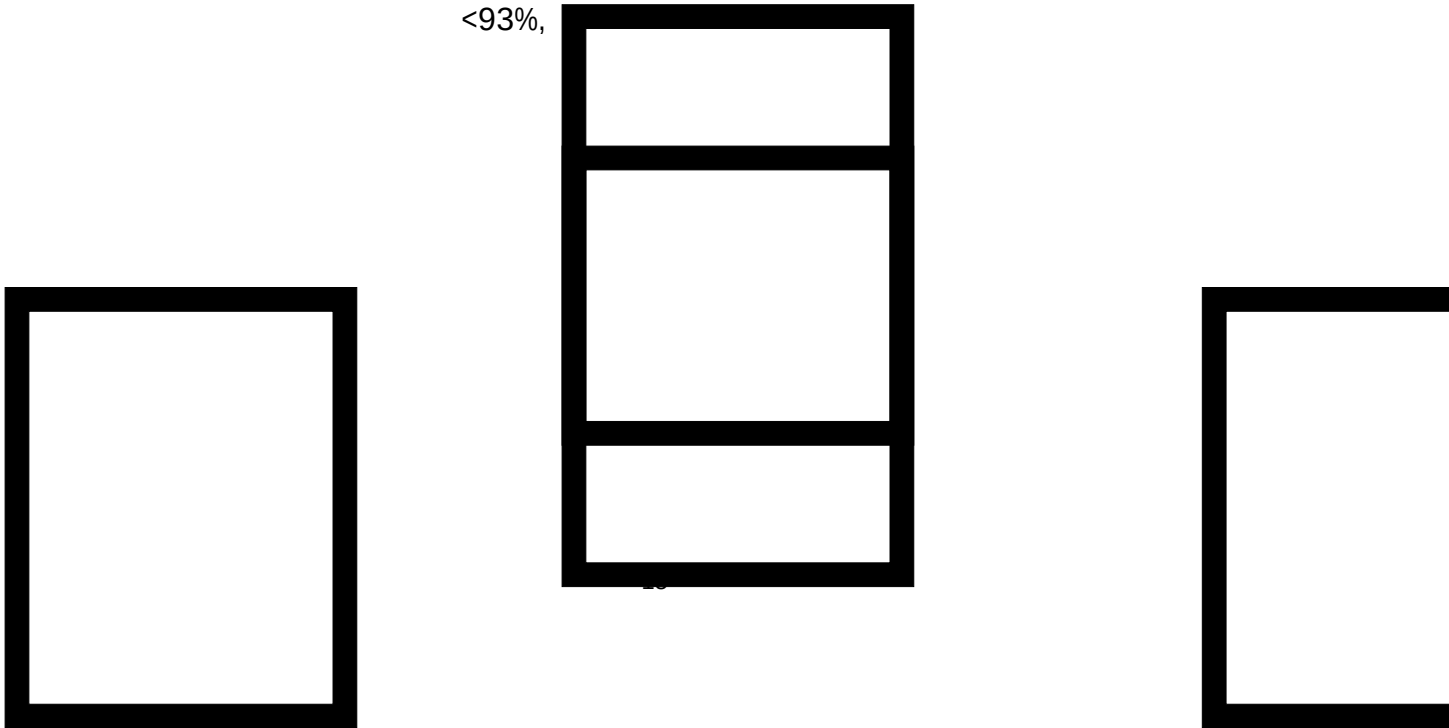
LED

-5 °C ... + 45 °C

- 25 °C ... + 55 °C

-25 °C ... + 70 °C

<93%,



2.4. 350mA LED KA/D 04.L1.1

2.4.1.

	21-30V DC KNX
	12-48V DC
	4
	350mA/700mA/1050mA 3-48V DC
KNX	KNX
	6 3 3 12 8 4
	LED
	LED LED LED LED / LED LED 350mA LED 350mA LED LED

LED LED 350mA LED 350mA LED LED
IP 20 EN 60 529
-5 °C ... + 45 °C
- 25 °C ... + 55 °C - 25 °C ... + 70 °C
<93%,
35mm DIN
/ 90×72×64.1 mm / 0.3 KG
CE EMC
EIB/KNX

2.5. 4A LED ADLD-04/03.1

2.5.1.

	21-30V DC KNX
	12-24 V DC
	4
	4A 12-24V DC !
KNX	KNX
	6 3 3 12 8 4
LED	
LED LED LED LED / OT. LED >70°C OV. LED >26V DC	
IP 20 EN 60 529	
	-5 °C ... + 45 °C
	- 25 °C ... + 55 °C - 25 °C ... + 70 °C
	<93%,
35mm DIN	
90×72×64.1 mm	
0.3kg	
CE EMC	
EIB/KNX	

2.6. KA/D 0400.1 5A ADDS-02/05.1

2.6.1. KA/D 0400.1

21-30V DC KNX

KNX <12mA

KNX <360mW

100-240V S ⏚

2.6.2. ADDS-02/05.1

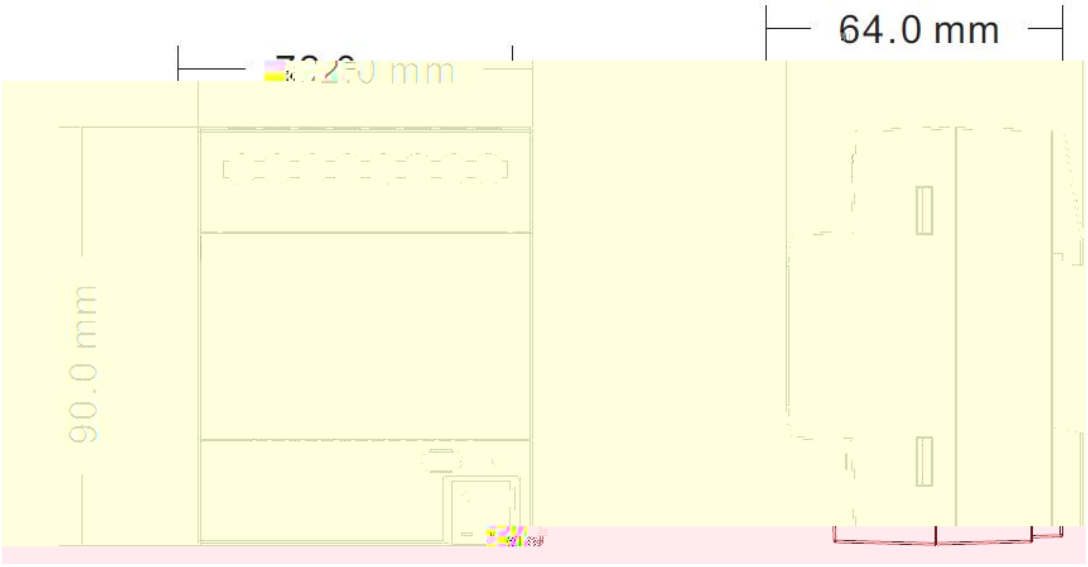
2.7. KA/D xx15.S.1

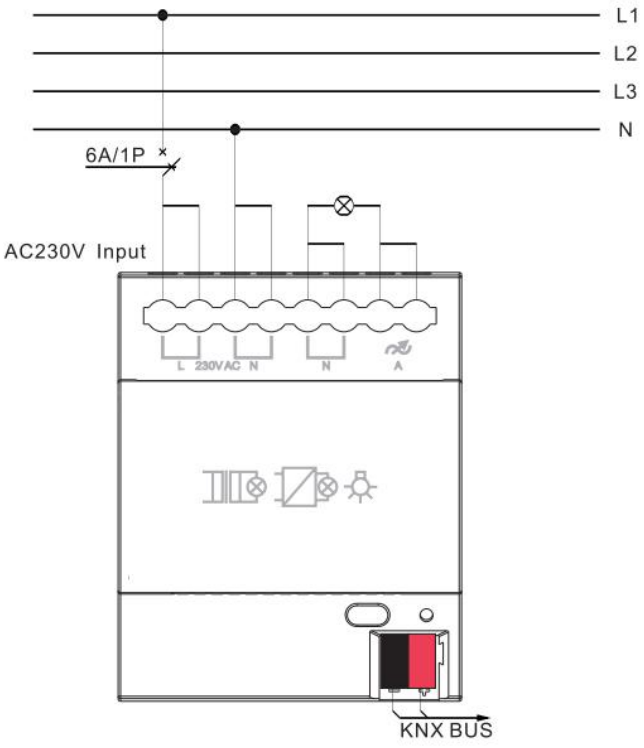
2.7.1.

21-30V DC KNX

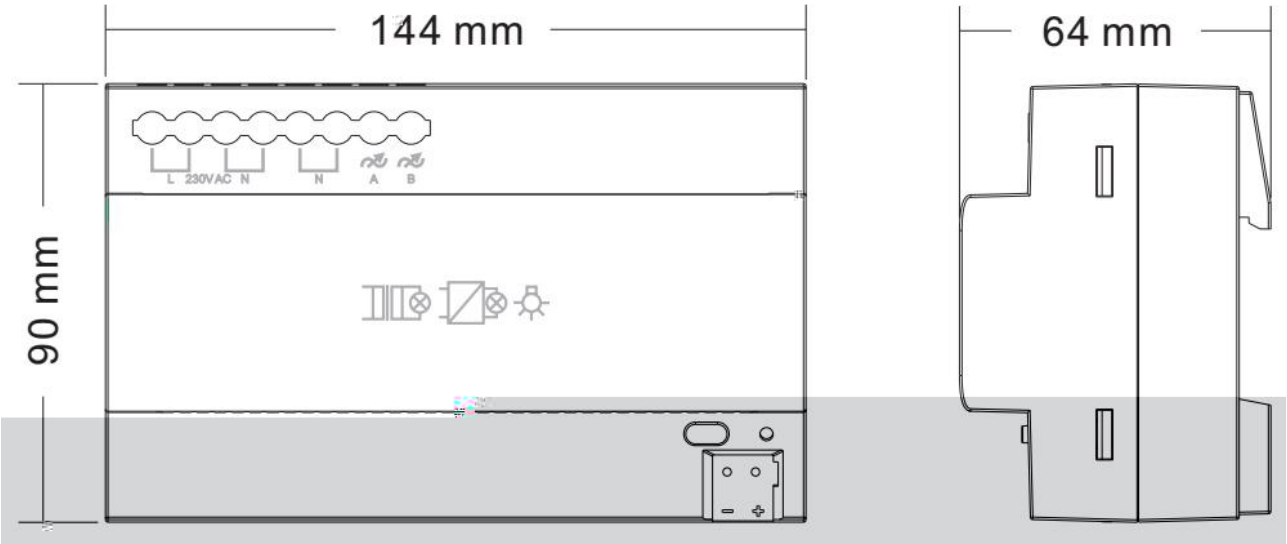
3.1.

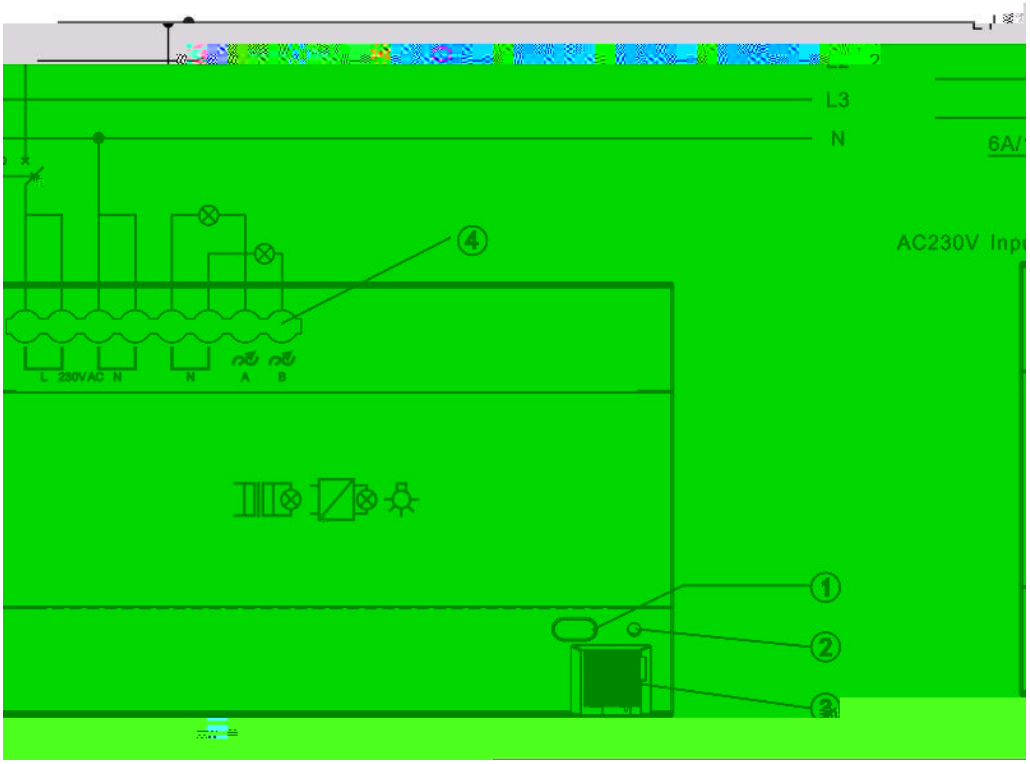
3.1.1. KA/D 0103.1





3.1.2. KA/D 0203.1





LED LED

KNX

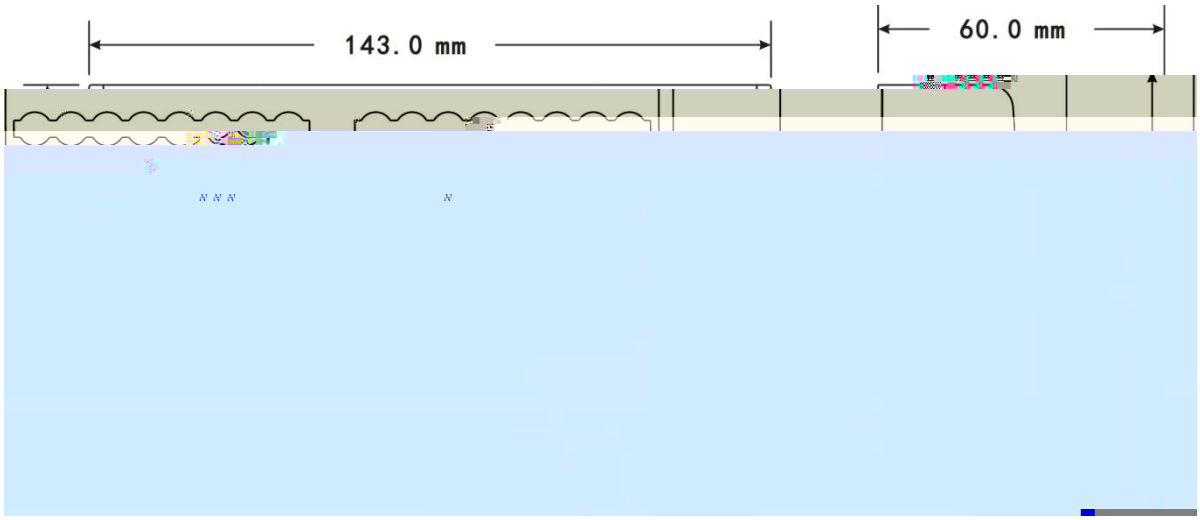
! !

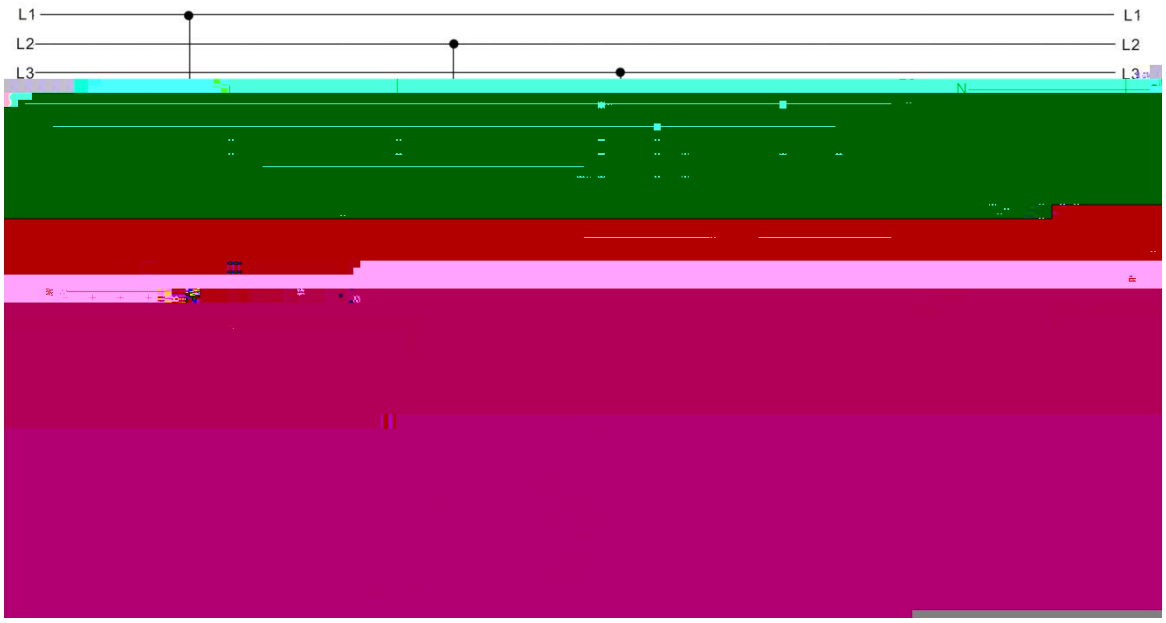
3.1.3. KA/D 0403.1

□ □ □

3.2. 0~10V DC KA/D 04.T1.1

:





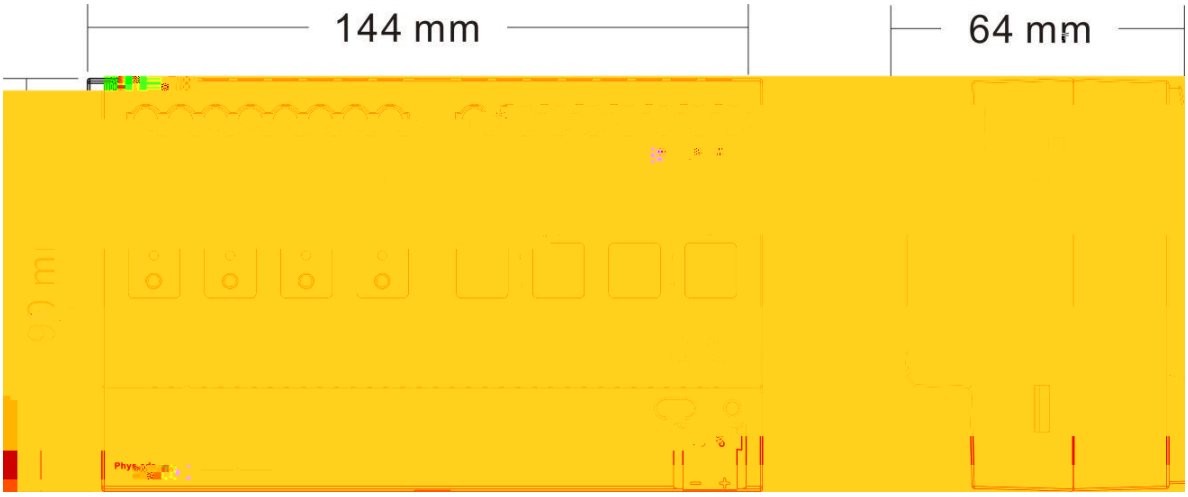
LED LED

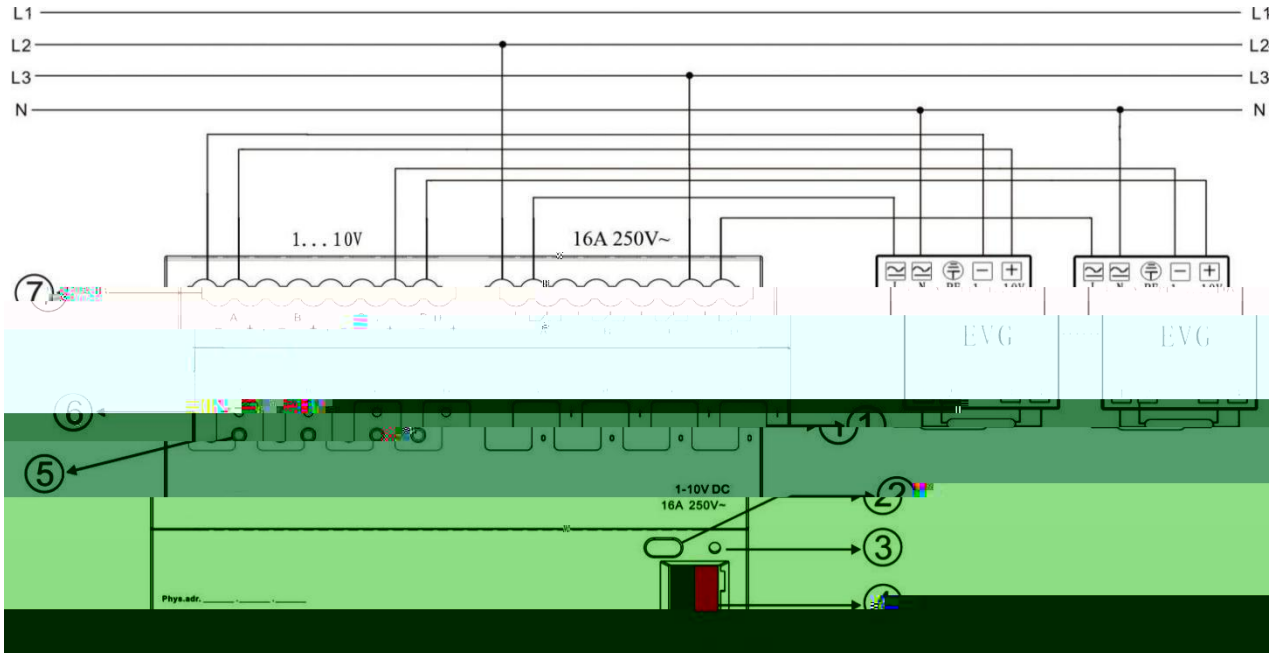
KNX

!

3.3. 0/1~10V DC ADTV-04/16.2

:





LED LED

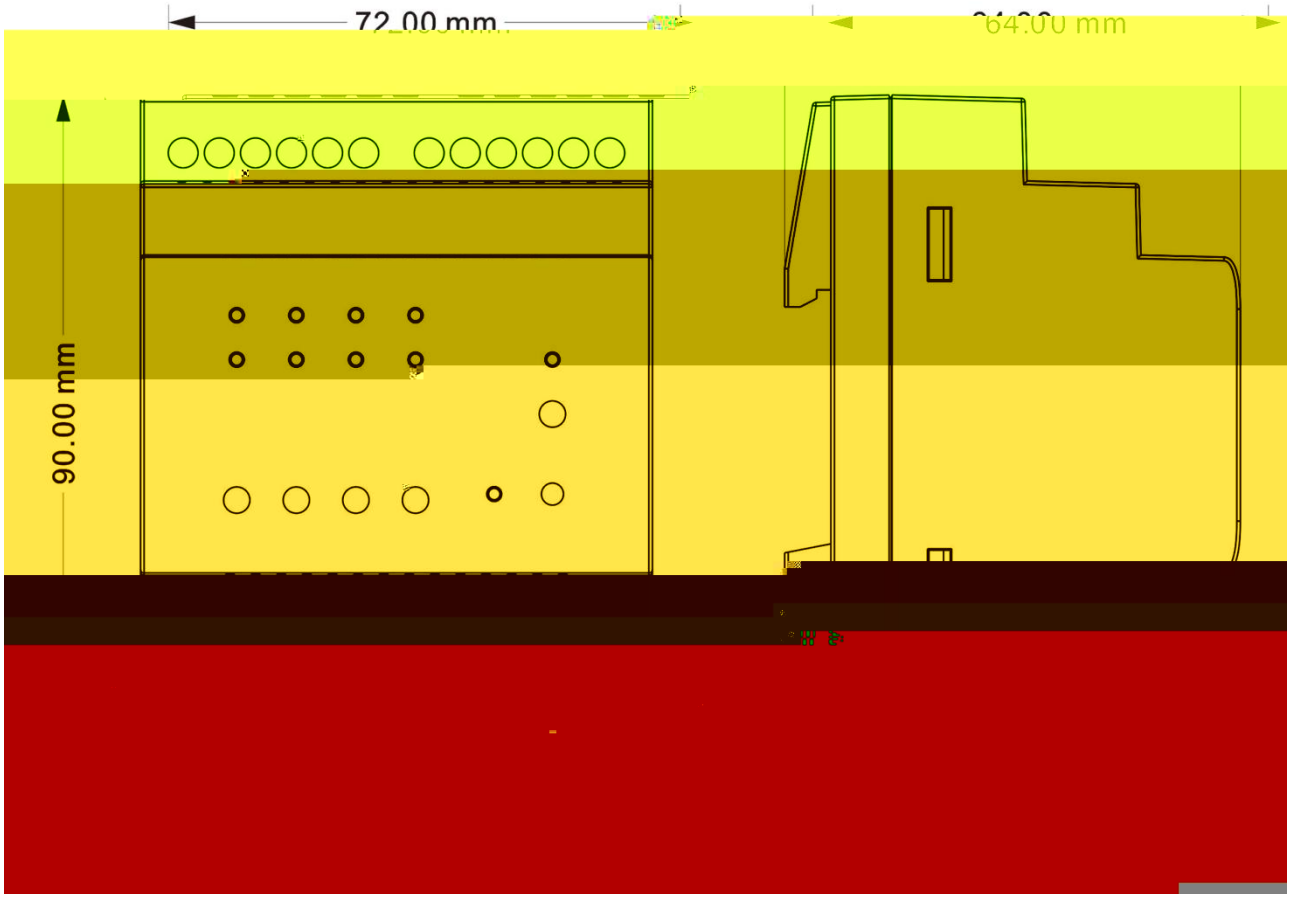
KNX

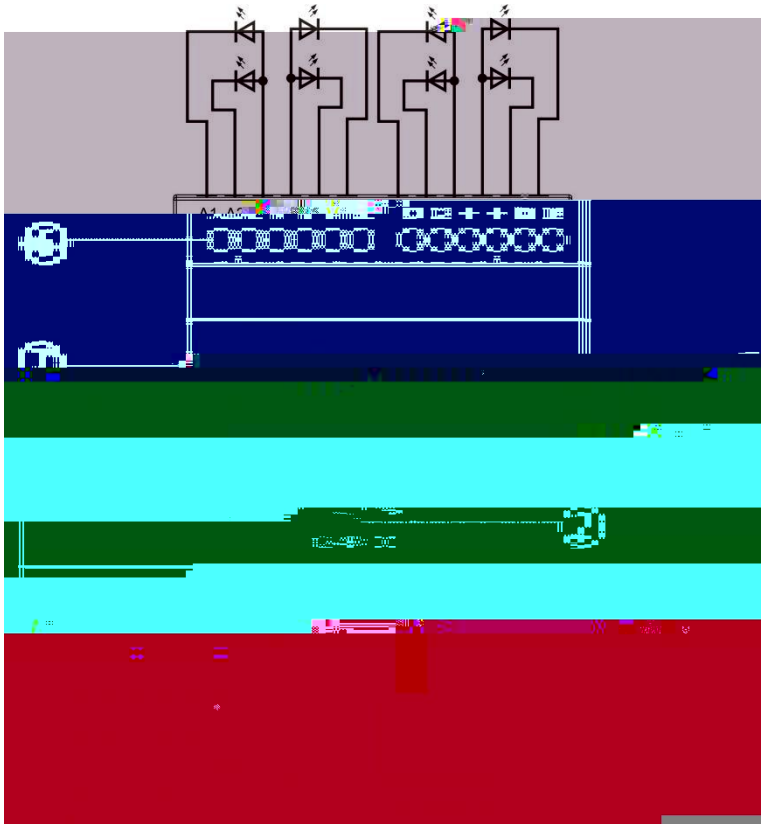
/

!

3.4. 350mA LED KA/D 04.L1.1

:





KEY 5

LED 5

LED

LED

LED 1~LED 4

/

KEY 1~KEY 4

KNX

12~48V

DC

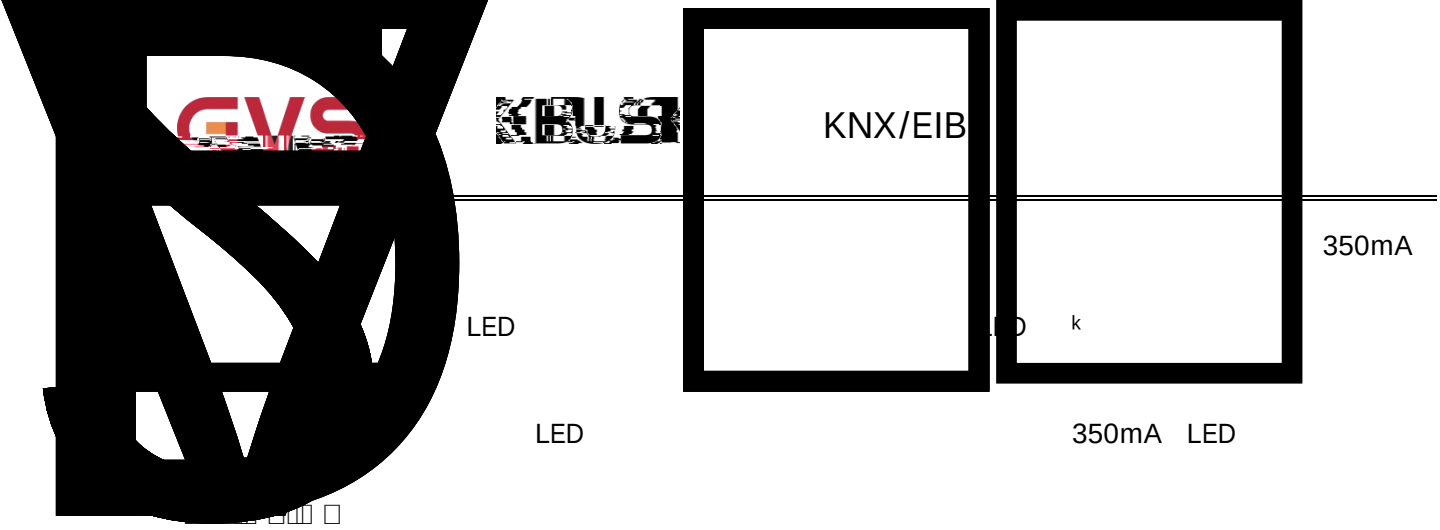
LED LED

350mA

LED LED k

LED 350mA LED

k


KNX/EIB
350mA
LED
LED
350mA
LED

350mA LED k

k

LED

LED 75,

LED 90, k

1. 1A 2
2. 700mA 4
3. 350mA 8
4. 1 1A 2 700mA
5. 1 700mA 4 350mA k

1 1A 2 700mA

2 700mA 6 350mA 2

350mA 1A A1,A2 k

LED LED LED

LED k

3.5. 4A LED AD

KNX 12-24V DC

LED

LED LED

LED k

>4A LED ; >5A LED

>26V DC LED ;

>30V DC LED

/

>70°C LED

0.5°C 5%

12-24V DC

3.6. KA/D 0400.1

:

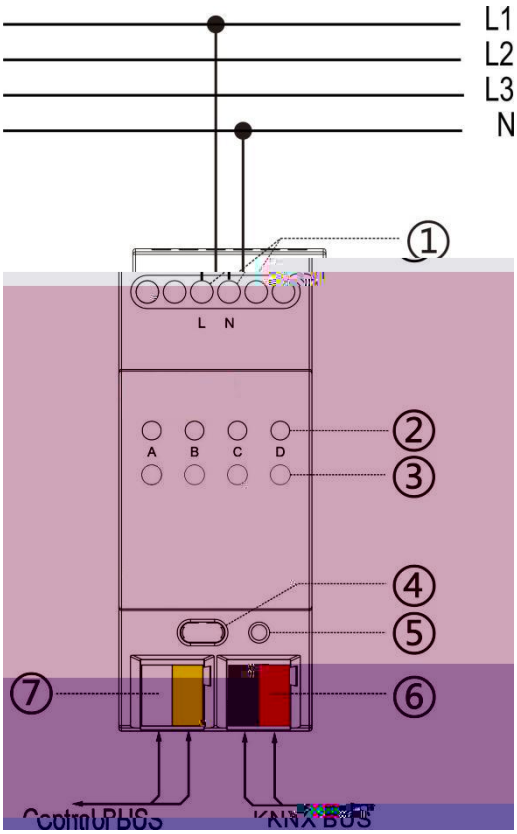


F

F

LED LED

LED



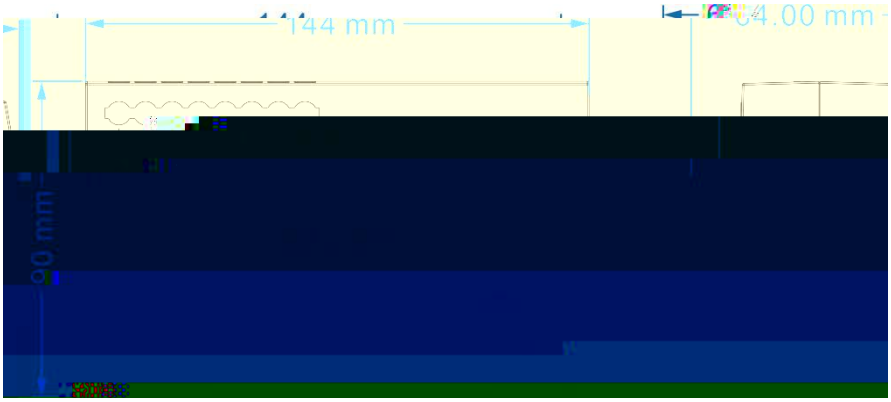
/

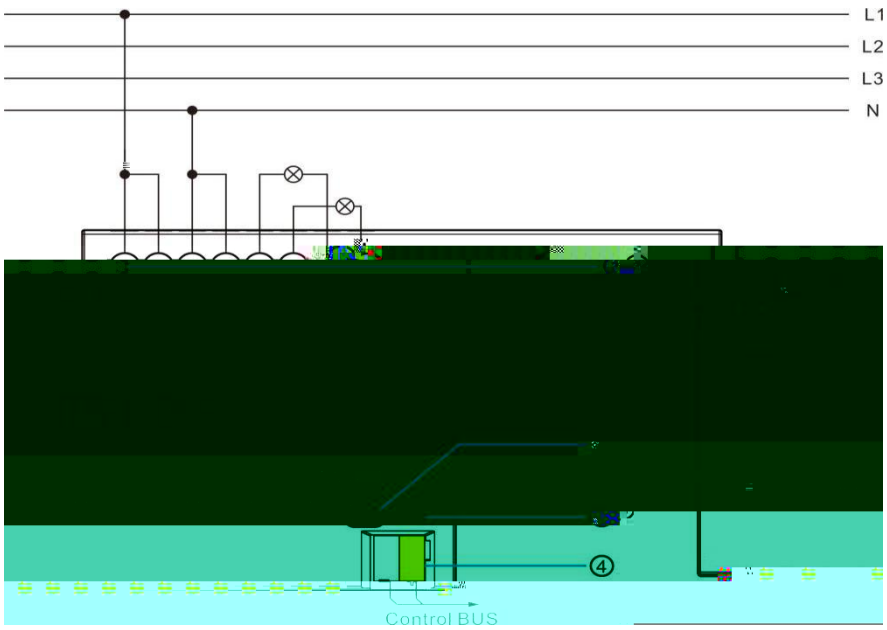
LED LED

KNX

3.7. ADDS-02/05.1

:





! !

1.5 A ! B C ! D k

LED A ! B

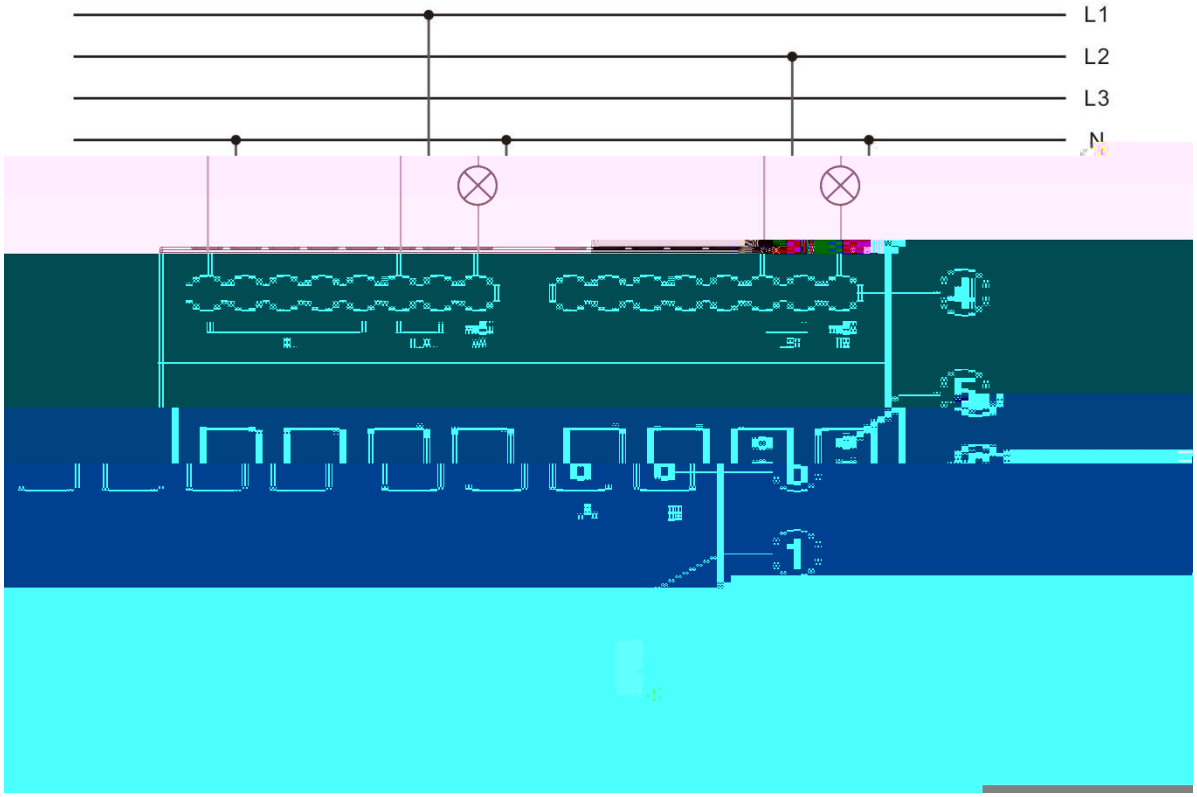
C ! D

Control

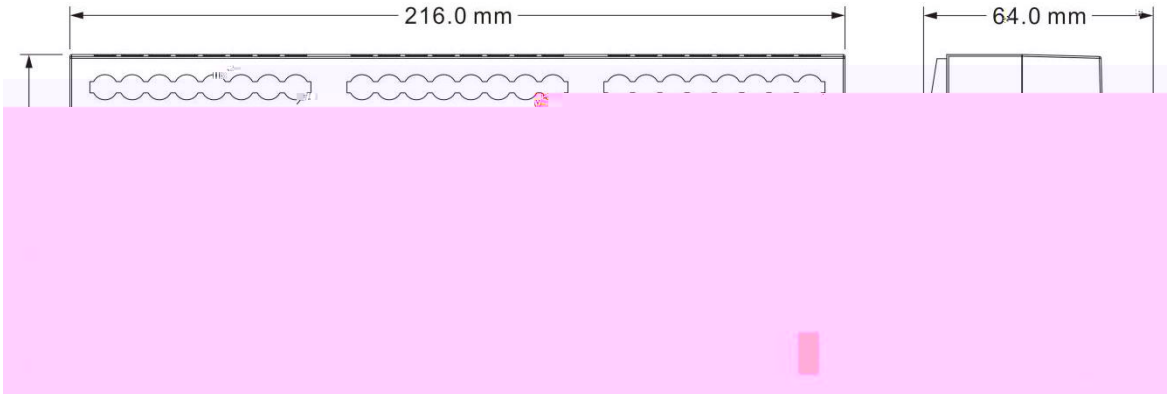
3.8.

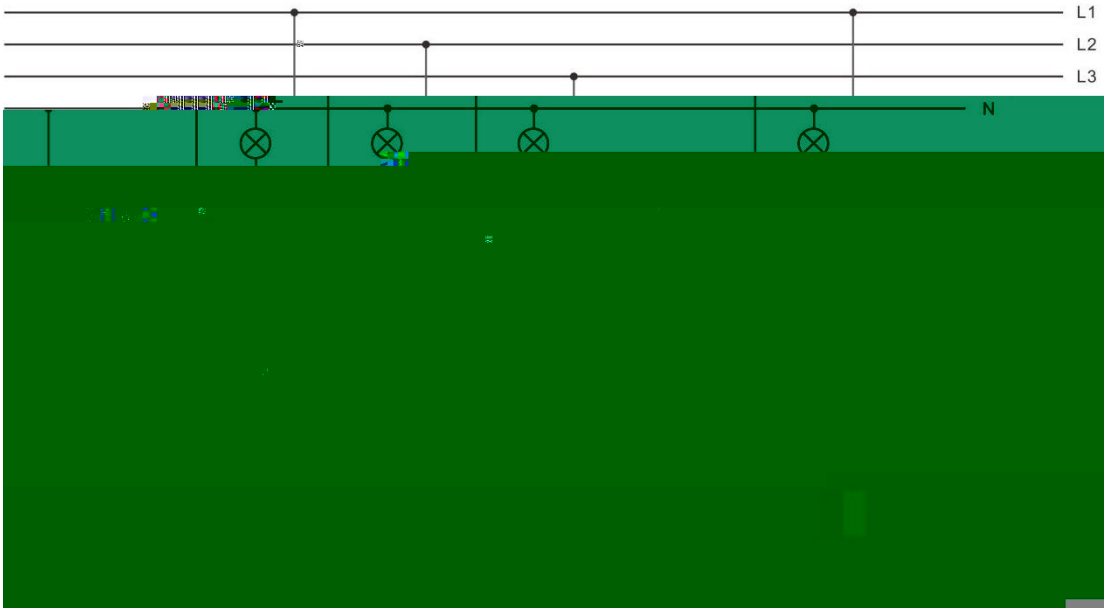
3.8.1. KA/D 0215.S.1





3.8.2. KA/D 0415.S.1





LED LED

KNX

! !

k

4.1.

1bit

1% φ 100%

k

k

4.2.

4bit

k

k

4 3.

8bit

0 φ 255 k

0 k

4.6.

1bit 1bit

k 2

k

k

4.7.

k

20% k

! ! 20% k

1bit

k

1

1

20% 0

0 20% k

1

0 20% k 0

k (1 0)

4.8.

k

k

k

□ □

5 4A LED

	Bit0	Bit1	Bit2	Bit3	Bit4	Bit5
	A	B	C	D		
					>26V DC	>70°C

6

	Bit0	Bit1	Bit2	Bit3	Bit4	Bit5
	A	B	C	D	˛ ˛	˛ ˛
	>75°C	>75°C	>75°C	>75°C	˛ ˛	˛ ˛

“0” “1” 70¸

“2” 80¸ k

4.10.

1bit k

ETS

5.1.

Normal dimming( )

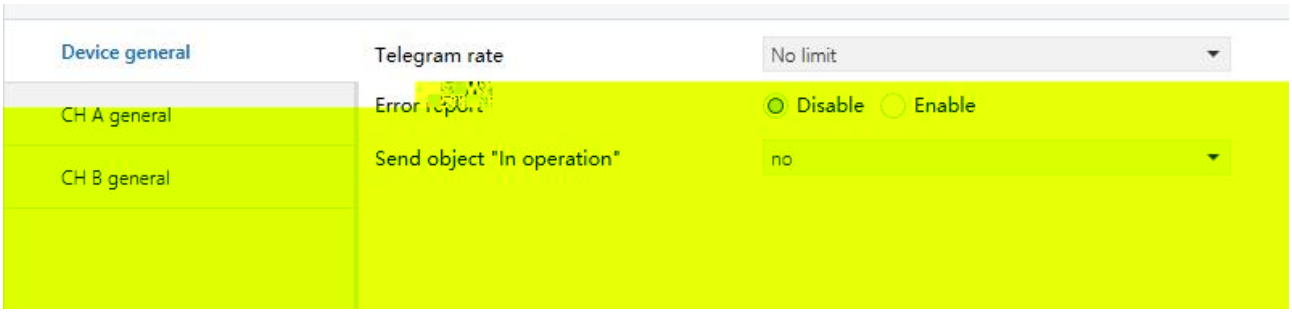
k

Staircase lighting

k

5.2. “Device general”

k



5.1 “Device general”

Telegram rate

No limit

Delay 100ms

Delay 200ms

.....

Delay 700ms

No limij"

1min 70 1min

30% 60 1min 50%

90 1min

350mA LED 75 LED

90

350mA LED

Output voltage type

0/1-10V DC k

0-10V

1-10V

Send object In operation

“1” “0”

No

Send value 0 cyclically

Send value 1 cyclically

“No” “Send value “0”cyclically” “Send value “1”cyclically”

k

Sending cycle time in s[1 65535]

k 1.....65535s

5.3. “CH X General”

“CH X active” 5.2 k X k

“CH X” “X” k

k



5.2 “CH X general”

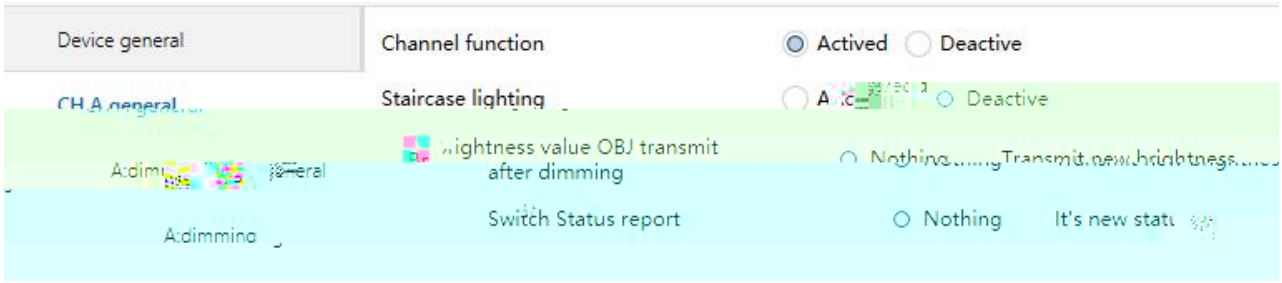
Channel function

Actived

Deactive

“Actived” X , 5.3

k “Deactive” k



5.3 “CH X general”

Staircase lighting

Actived

Deactive

“Actived” X “Deactive” k

Brightness value OBJ transmit after dimming

Nothing

Transmit new brightness

KNX/EIB

“last brightness ” switch switch

switch 128

switch k

Preset switch on brightness(1%~100%)

“switch” 1% φ 100% k

reaction on receipt of switch on value

“switch”

Dimming on

Switch on softly

“Dimming on” “switch” “time duration of dimming time=entry*2”

2 k “Switch on softly” “switch” 4s k

reaction on receipt brightness value

□ “brightness”

Dimming on

Switch on softly

“Dimming on” “brightness” “time duration of dimming time=entry*2”

2 k

“switch on softly” “brightness” □□□

Switch off softly

Switch off instantly

“Dimming off” “Switch” “Time duration of dimming time=entry*2”

2 k

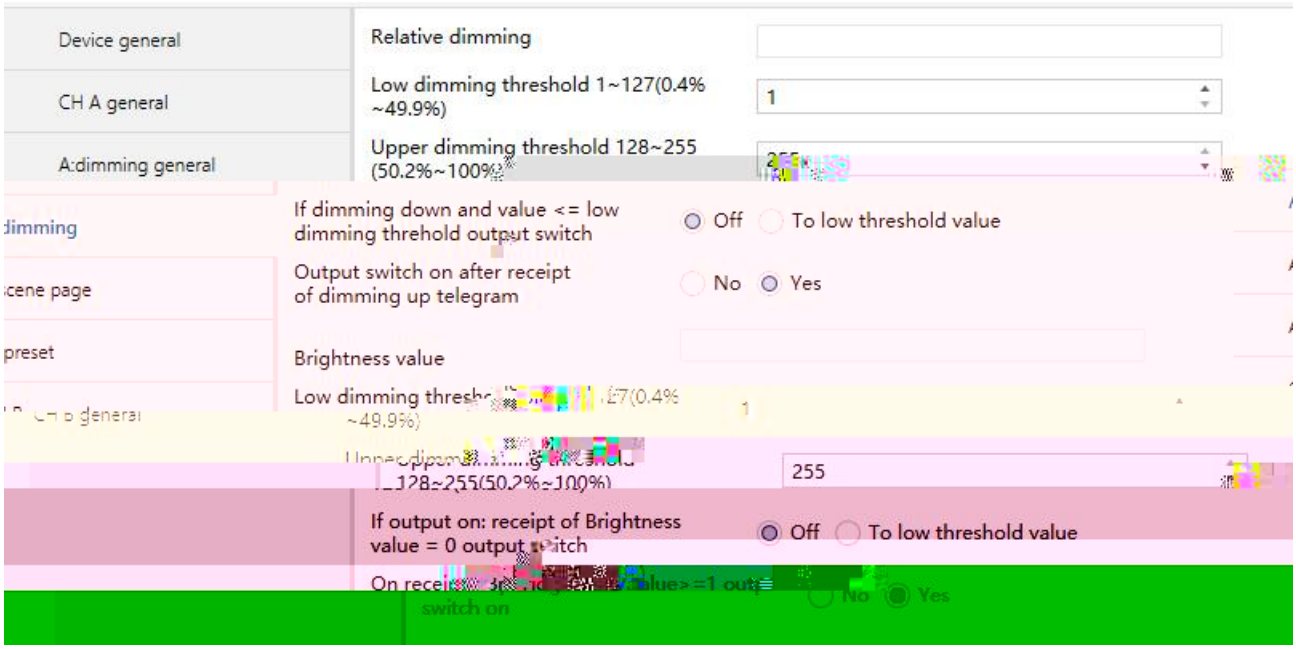
“Switch off softly” “Switch” 4s k

“Switch off instantly” 0 k

After bus recover switch on with

nj4

5.4.2. “X: dimming”



5.5 “X: dimming”

“CH X dimming” 5.5 k brightness

brightness Relative dimming brightness value( ) k

Relative dimming

low dimming threshold 1~127 0.4%~49.9%)

1~127 0.4% φ

49.9%) k 50 50 50 k

Upper dimming threshold 128~255 50.2%~100%)

128~255 50.2% φ 100%) k

200 200 200 k

If dimming down and value <=low dimming threshold output switch

Off

To low threshold value

50 “Off”

low dimming threshold 1~127 0.4%~49.9%)

1~127 k k 0

50 200 30 50 60

50 60 100 30 100 50

50 k

upper dimming threshold 128~255 50.2%~100%)

128~255 k 50 200

200 200 k

If output on : receipt of brightness value=0 output switch

0

Off

To low threshold value

“Off” 0 0 “To low threshold value” 0

k

On receipt brightness value >=1 output switch on

0 brightness

No

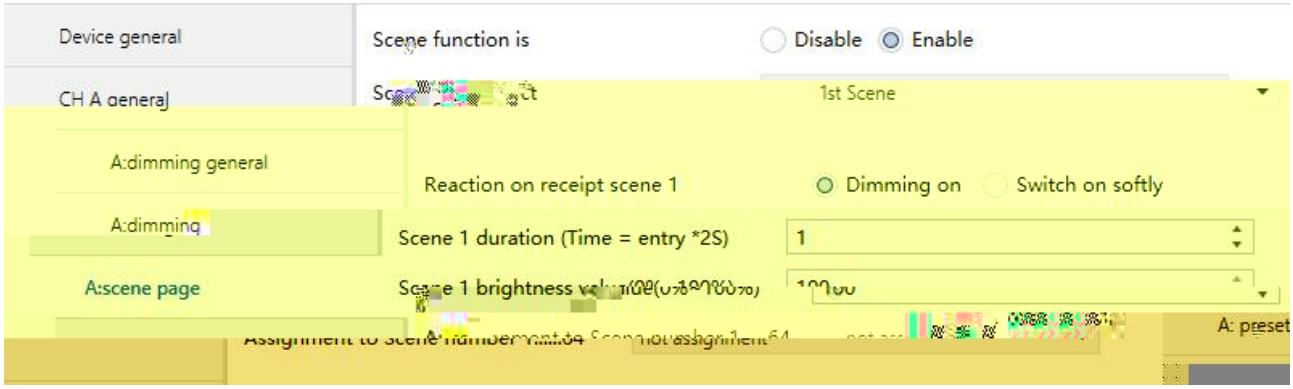
Yes

“No” 0 100 k 0 k

“Yes” 1

k

5.4.3. “X: scene page”



5.6 “X: scene page”

“CH X scene page” 5.6 1~15 15 k

15 k

Scene function is

Enable

Disable

“Enable” X , 5.6 k

“Disable” k

Scene select

! k

Scene 1

Scene 2

` `

Scene 15

15 k

Reaction on receipt scene Y

k Y 1~15 Y k

Dimming on

Switch on softly

“Dimming on” “Scene Y duration time=entry*2 S ”

2 k

“Switch on softly” 4s k

Scene Y duration time=entry*2 S

2 255 s

Scene Y brightness value 0%~100%

0% φ 100% k

Assignment to Scene number 1...64

“Scene/save X”

k

Not assignment

Assignment to scene 1

Assignment to scene 2

` `

Assignment to scene 64

1~64 k

Switching on softly

“Dimming on” “X preset 1” “Time duration of dimming Time =entry” 2;

“switching on softly” “X preset1” 4s k

Brightness value at obj=0(1%~100%)

“X preset 1” “0” 1~100% k

Brightness value at obj=1(1%~100%)

“X preset 1” “1” 1~100% k

Preset 1 can be set via the bus

k “Enable”

“Set preset 1” k “Set preset 1” k

“0” “brightness value at obj=0”

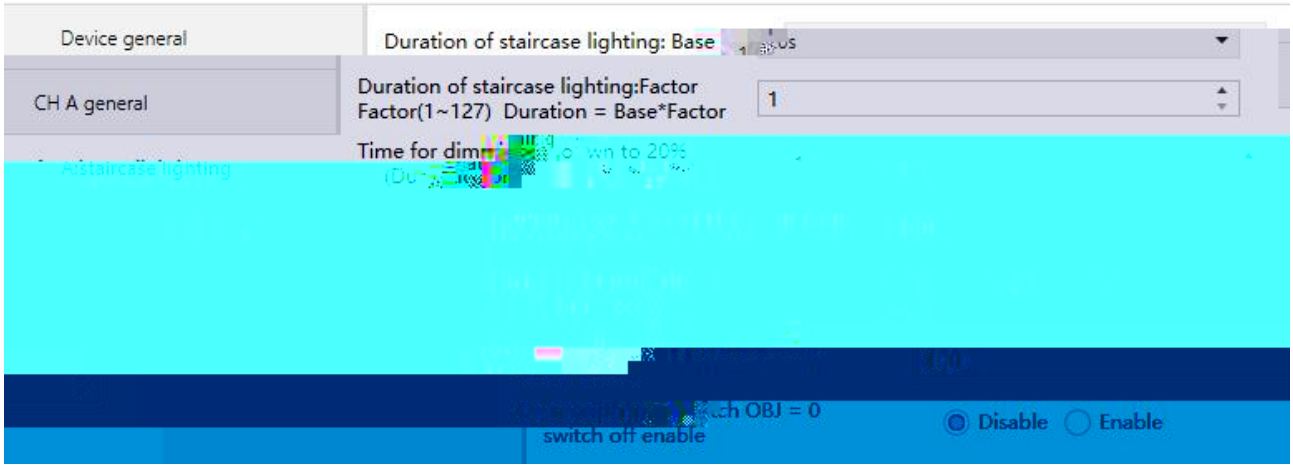
“1” “brightness value at obj=1” k

Enable

Disable

5.5.

5.8 k



5.8 “CH X staircase lighting”

Duration of staircase lighting : Base

base 1.0 s / 2.1 s / 、 / 1.1 min / 、 / 1.2 h

Duration of staircase lighting : Factor

factor 1~127 s

“switch” duration=base*factor

20% k

Time for dimming down to 20%

2s 255s k

20% 20s, 100% 20%

100-20 %*20s=16s k

Brightness u or ta

3	1——	4	
4	1——		70¸
5	1——		90¸

350mA LED

8	0——		
0	1——	B ! C	75¸
1	1——	B ! C	90¸
2	1——	A ! D	75¸
3	1——	A ! D	90¸

4A LED

8	0——		
0	1——A		
1	1——B		
2	1——C		
3	1——D		
4	1——		>26V DC
5	1——	>70°C	

8	0——		
0	1——A		75¸
1	1——B		75¸
2	1——C		75¸
3	1——D		75¸

0 ——		
1 ——		70¸
2 ——		80¸

6.2. “Dimming Actuator”

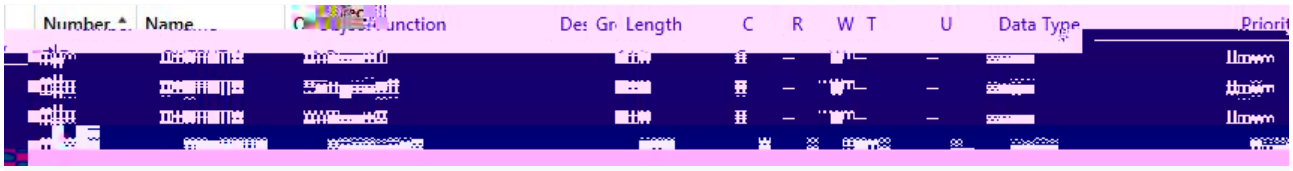


6.2

						DPT
1	Switch status X	OUTPUT X	1bit	C,R, T	1.001 switch	
	switch	k	switch		0	
“1”	0	“0”	k	“Status report”	“It’s new status”	
k						
0	Switch X	OUTPUT X	1bit	W,C	1.001 switch	
		k				“1”
	“0”	k				
4	Brightness status X	OUTPUT X	1byte	C,R,T	5.001 percentage(0..100%)	

cã"+d$_·3W t3 VêRÃ3 "±`i %w2 " Y:%w %wVç83"Vè9t o f3 "t2C$?-* "‘

6.4. “Dimming Actuator”

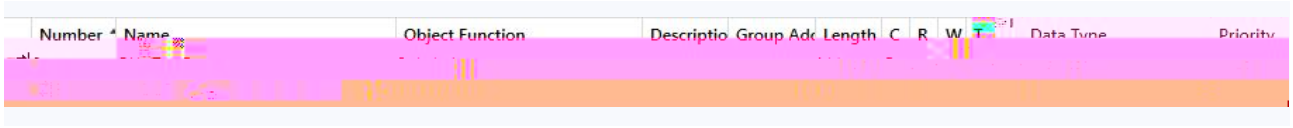


6.4

DPT

7 X pre

6.5. “Dimming Actuator”



6.5

					DPT
0	Switch X	OUTPUT X	1bit	W,C	1.001 switch
k “1” “Duration of staircase lighting Base” “Duration of staircase lighting Factor” duration=base*factor k “0” k					
5	Permanent on X	OUTPUT X	1bit	C,W	1.001 switch
“1” “0” k					

6.5