

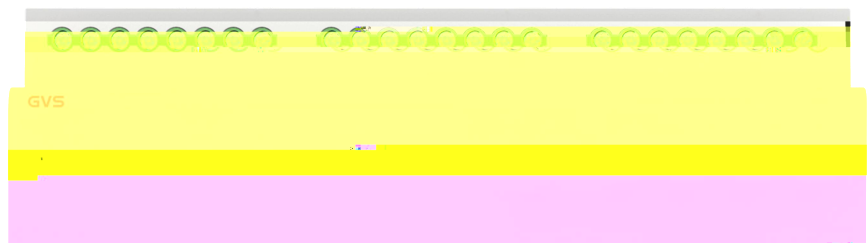
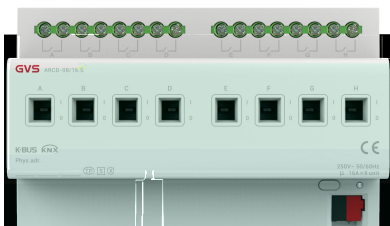
K-BUS

,4/8/12- 1.3

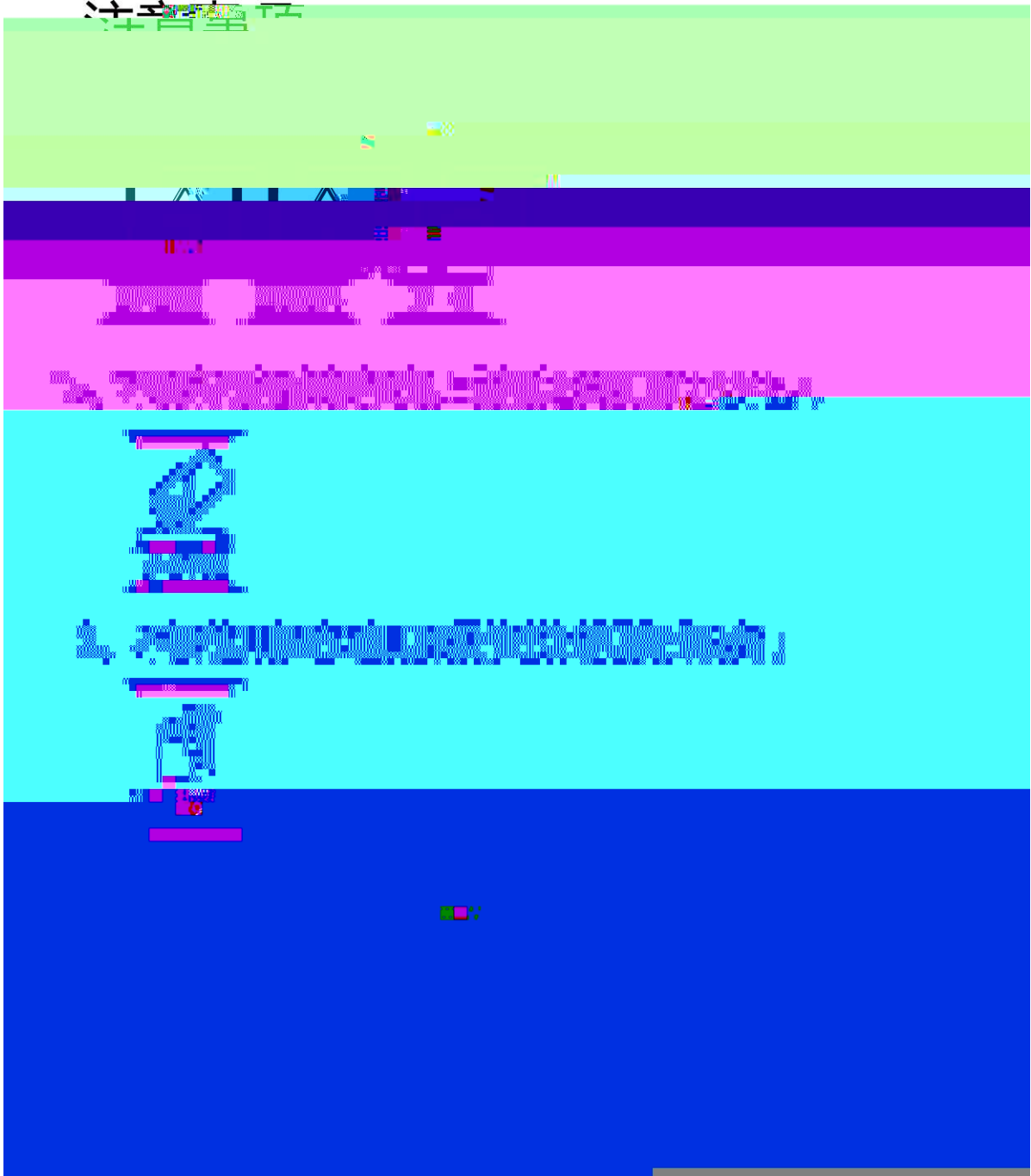
-04/16.

-08/16.

-12/16.



/



		5
		6
		8
3.1		8
3.2		
		12
4.1		12
4.2		17
4.3		18
4.3.1		21
4.4		25
4.4.1		30
4.4.1.1		30
4.4.1.2		31
4.4.1.3		33
4.4.2		36
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4.4.7		46
4.4.8		48
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4.5.1		5
4.5.2		61

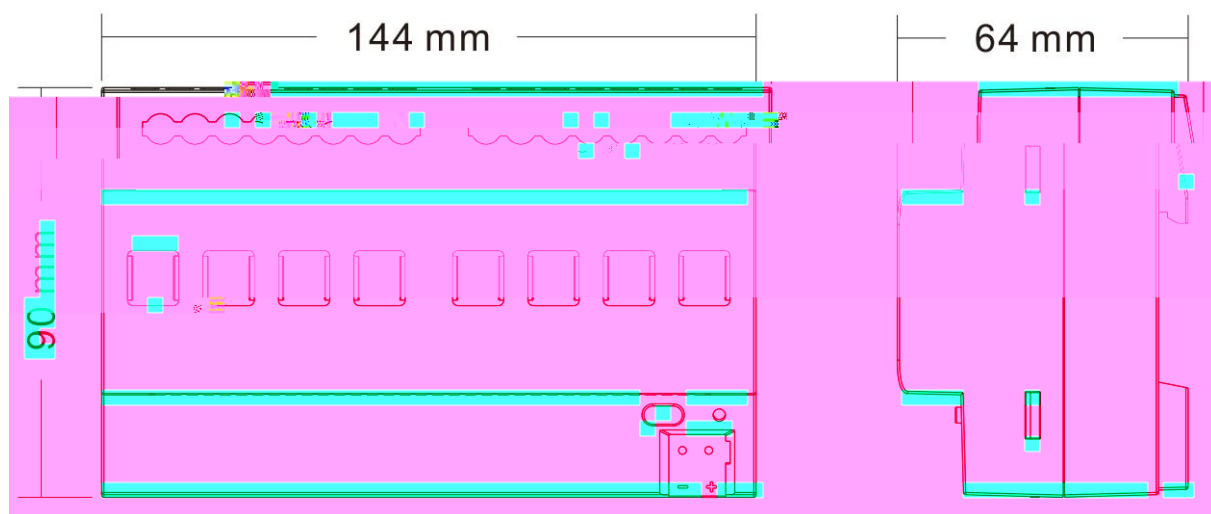
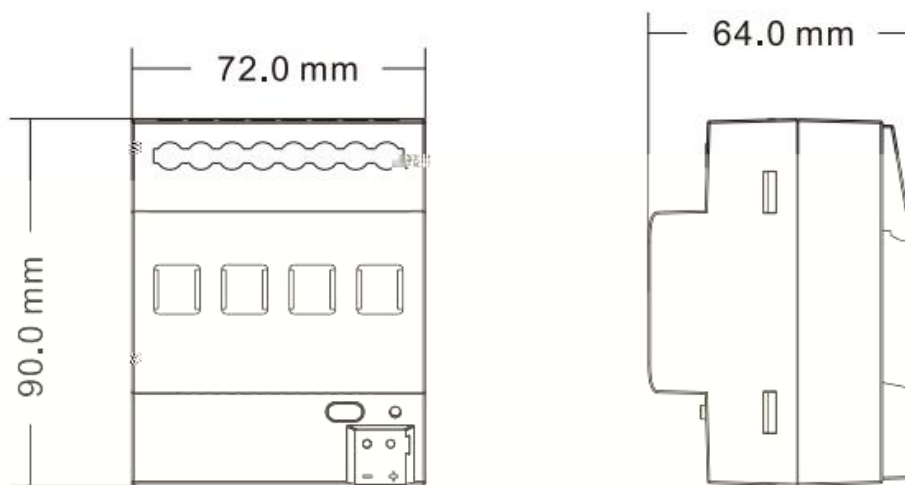
4.5.3		62
4.5.4		63
		65
5.1		65
5.2		67
5.2.1		67
5.2.2		68
5.2.3		6
5.2.4		6
5.2.5		70
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5.2.7		71
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5.3.1		72
5.3.2		73
5.3.3		73
5.3.4		73
5.4		74
5.5		75
		76

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	-	-
	-	-
	-	-



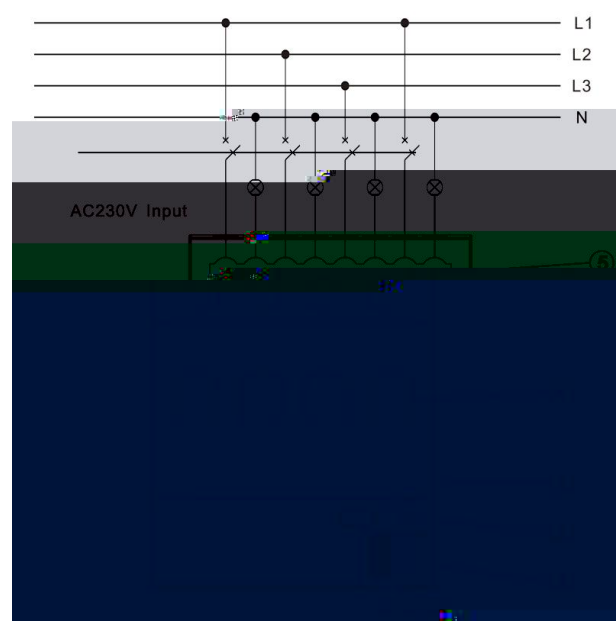
K-BUS

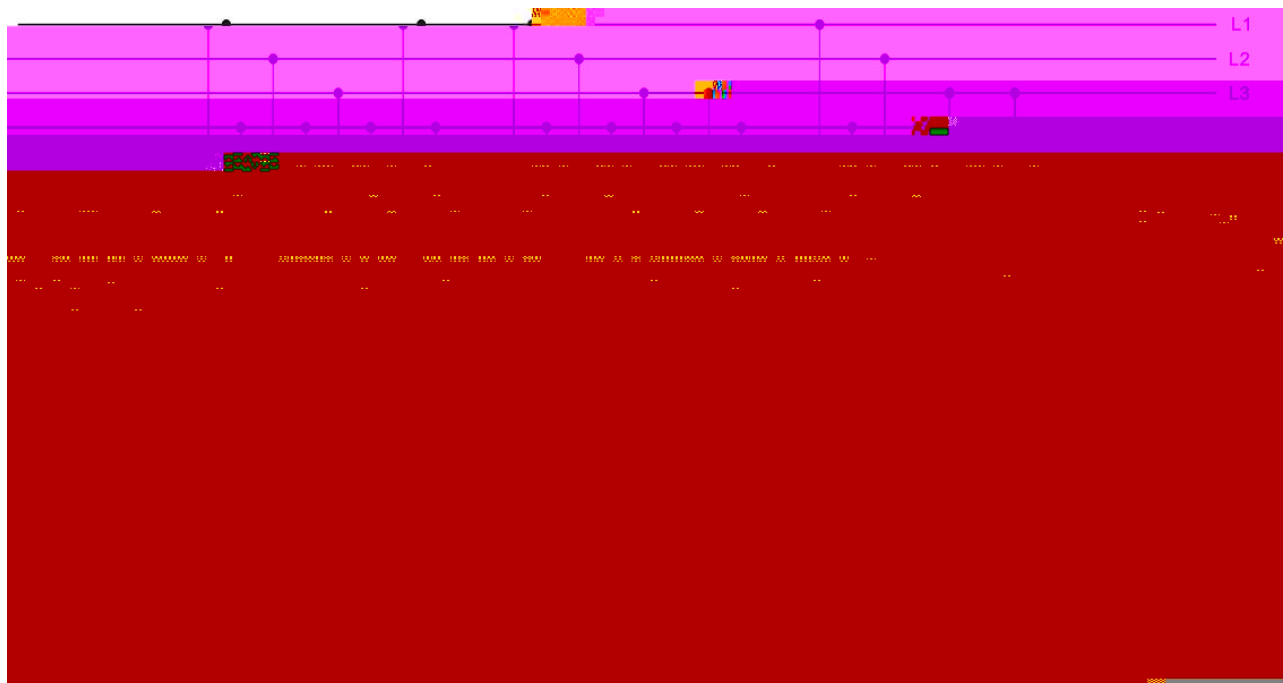
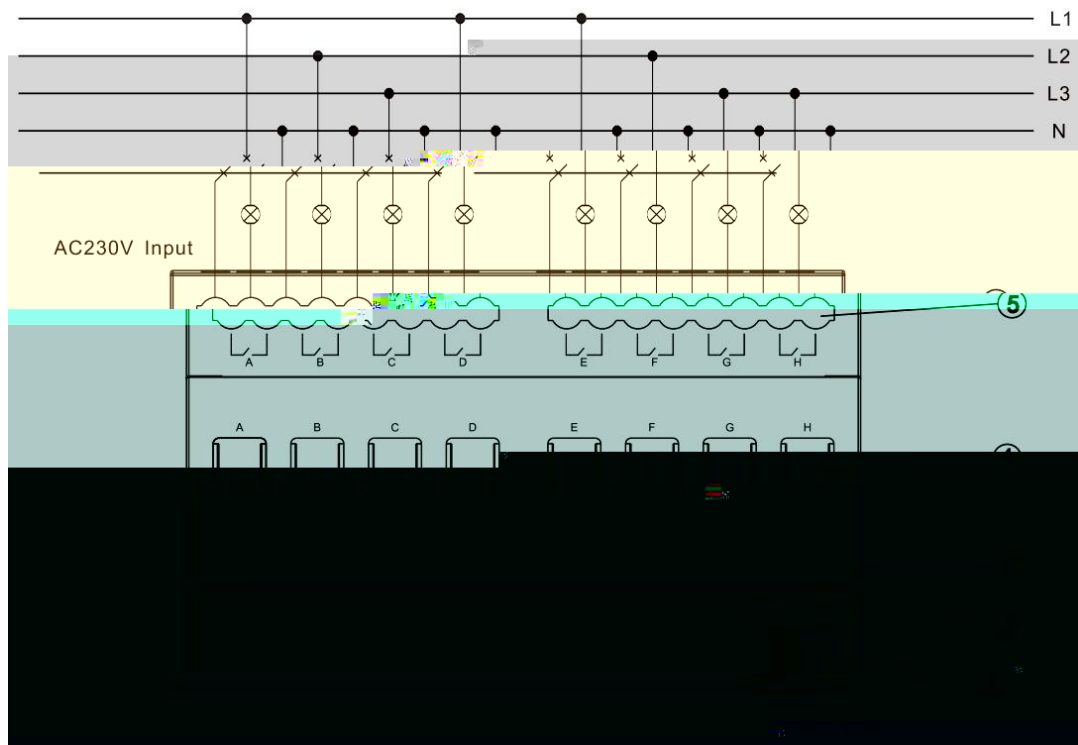
3.1





3.2

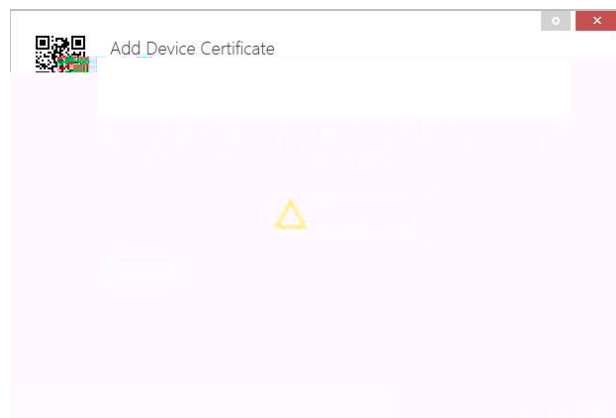




4

4

3





Overview Bus Catalogs Settings

Projects Archive ETS Inside

Test Secure demo Import Date: 2022/4/27 16:49 Last Modified: 2022/5/26 13:51

Details Security Project Log Project Files

Export
Export Keyring

Device Certificates
+ Add - Delete

Serial Number	Factory Key (FDSK)	Device
0085:25110029	1B188D0478CC407E1C768F5AB886948B	1.1.1 IP Interface with Secure

Devices

+ Add Devices - Delete Search

Dynamic Folder

- KNX Presence Sensor, Microwave
- KNX Motion Sensor, PIR

General...

- Internal sensor measurement
- Presence detector 1
- Light control
- Constant lighting
- RTC controller
- Scene Group function
- 1st Logic function

Individual Address

Description

Last Modified 2023/2/24 10:59

Last Downloaded -

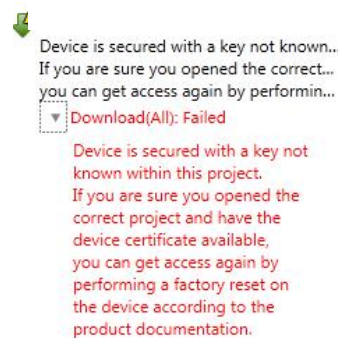
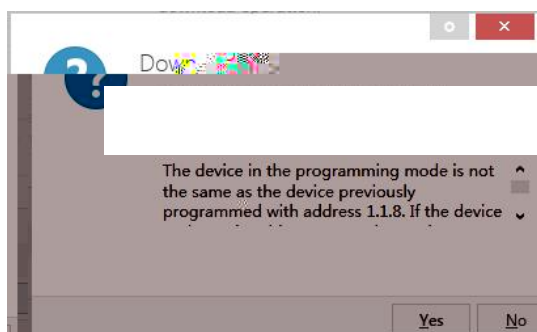
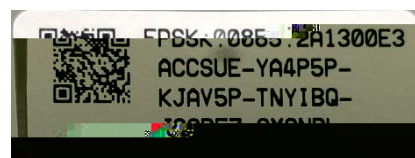
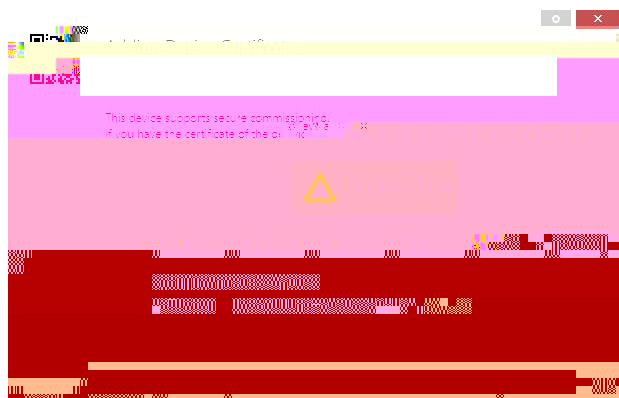
Serial Number -

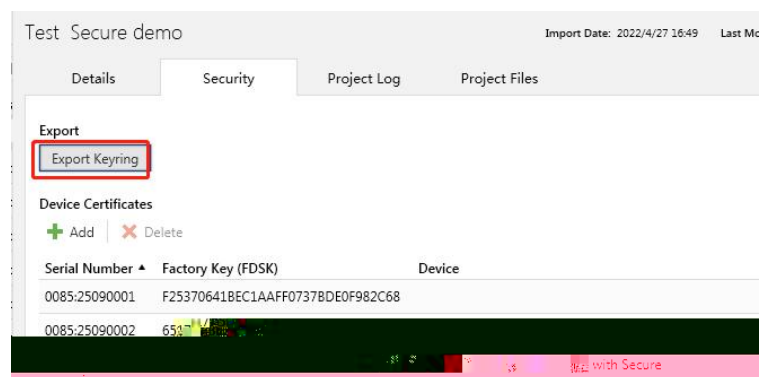
Secure Commissioning

Activated

Add Device Certificate

Status Unknown





4.2

1.

2.

4.3

Switch Actuator with Current detection & Secure, 4-Fold > General

KNX Secure	Product type	4-Fold Output
General	Operation delay after bus recovery [10...250]	10 s
Total current	Sending cycle of "In operation" telegram [1..240,0=inactive]	0 s
Channel A...	Total current	✓
Channel B...	Enable safety priority function	✓
Channel C...	Safety priority 1	Reset safety by object value "0"
Channel D...	Monitoring period of safety priority 1 [1..240,0=inactive]	0 s
	Safety priority 2	Reset safety by object value "0"
	Monitoring period of safety priority 2 [1..240,0=inactive]	0 s
	Priority of safety operation	Priority of 2 is higher than that of 1
	Normal, object value of switch on/off	"1"=switch on; "0"=switch off
	Switch on=contact close; Switch off=contact open	

4-

-04/16.

8-

-08/16.

12-

-12/16.

10...250

10...250

1...240, 0

0 ..240 0

, 1,2

4.3.1

--- Switch Actuator with Current detection&Secure, 4-Fold > Total current

KNX Secure	Object selection for the current measurement	Value in mA(DPT 7.012)
General	Send current value after changes value	Not active
Total current	Cyclic send	Inactive
Channel A-...	Monitoring exceedance of load	✓
	Factor for load monitoring [1..200]	1
Channel B-...	Hysteresis [10..100]	10
Channel C-...	Behavior at exceeding	Send no telegram
Channel D-...	Behavior at not exceeding	Send no telegram
	Send exceeding cyclical	Inactive
	Total power meter function(Wh/kWh)	✓
	Object selection for power meter	☐ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
	Sending object value	Only request
	Memory of all current detecting delete after download of application	✓

(7.012)
(.021)
(14.01)
(.024)

100...250

1%
2%
...
70%

10

...

0

120

1...200

1...200

10...100 %

10...100

Z

10

20

....

120

(/)

(/)

(13.010)

(13.013)

10

30

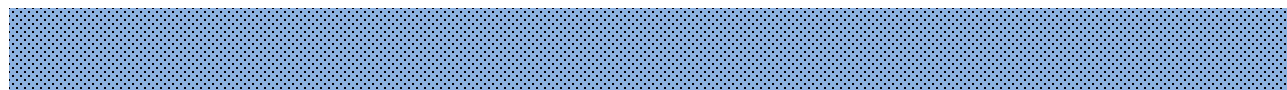
1

3

6

12

24



4.4

Switch Actuator with Current detection&Secure, 4-Fold > Channel A-...

KNX Secure	Description (max.30 char.)	
General	Work mode of the channel is	☒ Switch actuator ☐ Heating actuator(without controller)
Total current	If bus recovery,output status is	Contact open
Channel A-...	If bus failure,output status is	Contact open
Channel B-...	Obj. value of "switch" after bus recovery	☒ To write with "0" ☐ To write with "1"
Channel C-...	Set the reply mode of switch status	Transmit after change
Channel D-...	Object value of switch status	☐ 0=contact close ; 1=contact open ☒ 0=contact open ; 1=contact close
	Output status for the tele...	

(.30 .)

()

0

1

0	1
0	1

1 (0)

--- Switch Actuator with Current detection&Secure, 4-Fold > Channel A---

KNX Secure General Total current Channel A--- Channel A---	Description (max.30 char.) Work mode of the channel is If bus recovery,output status is If bus failure,output status is Obj. value of "switch" after bus recovery Set the rel...	Switch actuator ☐ Heating actuator(without controller) Contact open Contact open ☒ To write with "0" ☐ To write with "1"
--	--	---

--- Switch Actuator with Current detection & Secure, 4-Fold > Channel A---

General Total current Channel A--- Channel A--- Channel A--- Channel A--- Channel A---	Function of Time Function of Preset Function of Logic Function of Scene Function of Preset Function of Preset Function of Preset
--	---

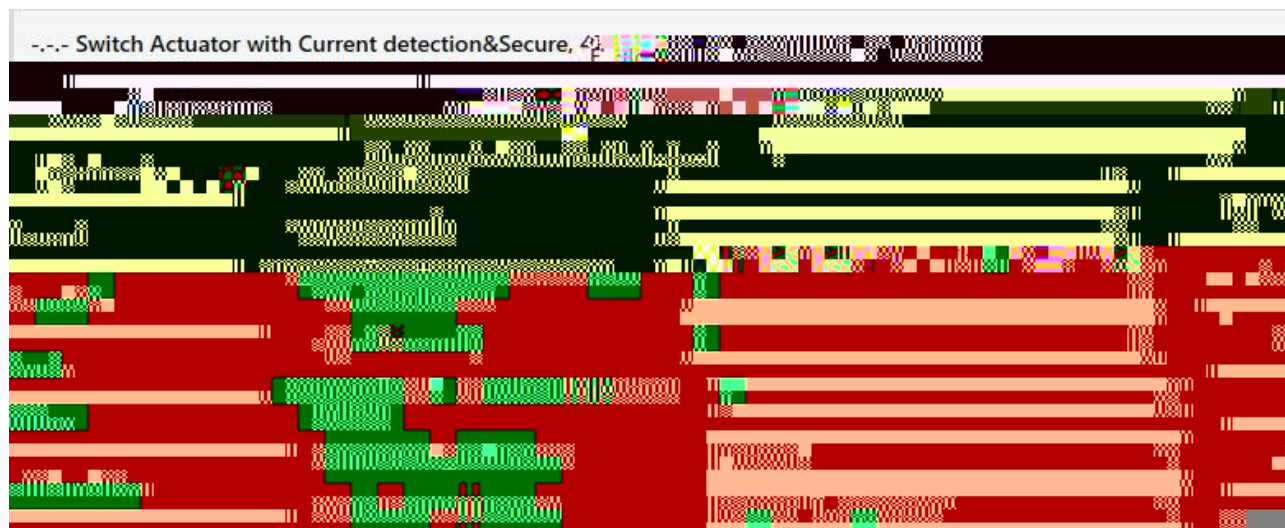
K BUS

4.

1505

PRINCE

4.4.1.2



() --(0...240) / -- (0...5)

0 240

0 5

() --(0...240) / -- (0...5)

0 240

0 5



K-BUS

- (1..255 0)

0...255

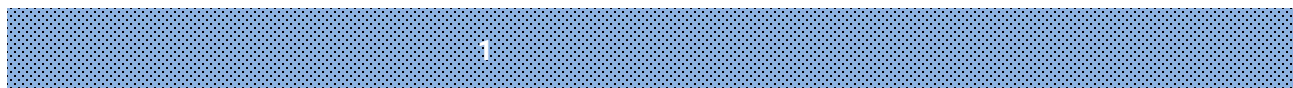
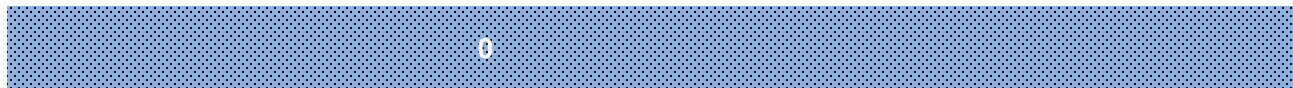
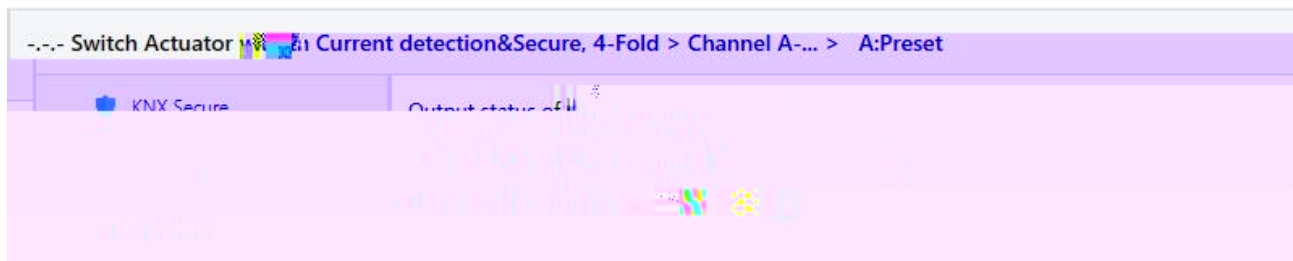
1 , 0
0 , 1
0/1 ,

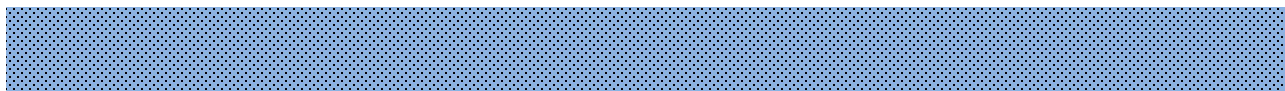
0.5

0 5

(0.6005)

4.4.2





4.4.3

Switch Actuator with Current detector & Secure, 4-Fold > Channel A-... > A:Logic

KNOX Secure	The input 0 (switch object) for logic	☒
General	The input 1 of logic	☒
Total current	Function type between input0 and input1	AND
Channel A-...	Invert result(if no,"1"=contact close,"0"=contact open;while yes is opposite)	☒
A:Function	Value of input 1 after bus recovery	"0"
A:Time	The input 2 of logic	☒
A:Preset	Function type between input2 and input0/1	AND
A:Logic	Invert result(if no,"1"=contact close,"0"=contact open;while yes is opposite)	☐
Channel B-...	Value of input 2 after bus recovery	☒ "0" ☐ "1"

0 ()

(1, 2)

(;'1" ;'0")

1

0

1

2

0

1

4.4.4

Switch Actuator with Current detection&Secure, 4-Fold > Channel A-... > A:Scene

KNX Secure	Overwrite scene stored values during download ☒
General	1> channel is assigned to (1..64,0=no allocation) 0
Total current	--Output status is ☐ Contact open ☐ Contact close
Channel A-...	2> channel is assigned to (1..64,0=no allocation) 0
A:Function	--Output status is ☒ Contact open ☐ Contact close
A:Time...	3> channel is assigned to (1..64,0=no allocation) 0
A:Preset	--Output status is ☒ Contact open ☐ Contact close
A:Logic	4> channel is assigned to (1..64,0=no allocation) 0
A:Scene	--Output status is ☒ Contact open ☐ Contact close
Channel B-...	5> channel is assigned to (1..64,0=no allocation) 0
Channel C-...	--Output status is ☒ Contact open ☐ Contact close
Channel D-...	6> channel is assigned to (1..64,0=no allocation) 0
	--Output status is ☐ Contact open ☐ Contact close
	7> channel is assigned to (1..64,0=no allocation) 0
	--Output status is ☒ Contact open ☐ Contact close
	8> channel is assigned to (1..64,0=no allocation) 0
	--Output status is ☒ Contact open ☐ Contact close



K-BUS

(1...64

,0

) (1 8)

1... 64 0

1 64

0..63

1

2

2

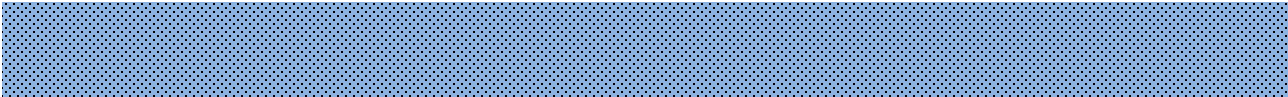
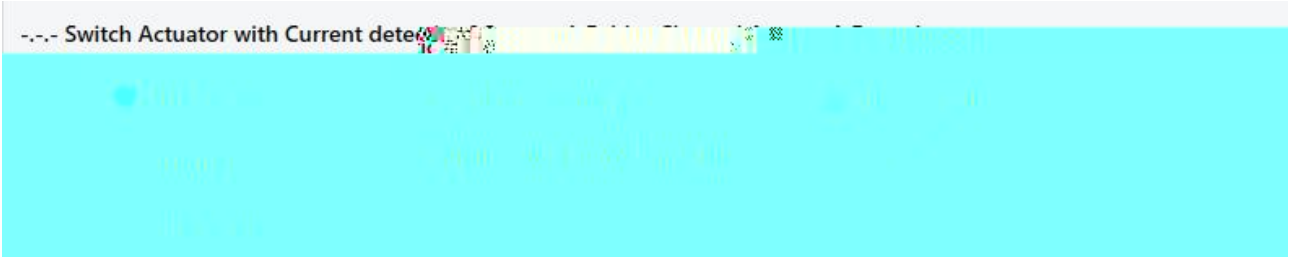
4.4.6

Switch Actuator with Current detection&Secure, 4-Fold > Channel A-... > A:Safety

KNX Secure General	Setting of safety Output status if safety priority 1 Output safety priority 2	On parameter-window "General" Unchange Unchange
---	---	--

Total current

4.4.7



1

2

4.4.8

--- Switch Actuator with Current detection&Secure, 4-Fold > Channel A-... > A:Current

KNX Secure	Load type	Resistive
General	Current correction [-1000..1000]	0 mA
Channel A-...	Factor for conversion into theoretical wattage kW: Current value x Factor	230
A:Function	Power meter function(Wh/kWh)	☒
A:Current	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel B-...	Sending object value	Only request
Channel C-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel D-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel E-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel F-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel G-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel H-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel I-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel J-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel K-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel L-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel M-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel N-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel O-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel P-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel Q-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel R-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel S-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel T-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel U-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel V-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel W-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel X-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel Y-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)
Channel Z-...	Object selection for power meter	☒ Value in Wh(DPT 13.010) ☐ Value in kWh(DPT 13.013)

-1000..1000

-1000..1000

100...250

(/)

(/)

(13.010)

(13.013)

10

30

1

3

6

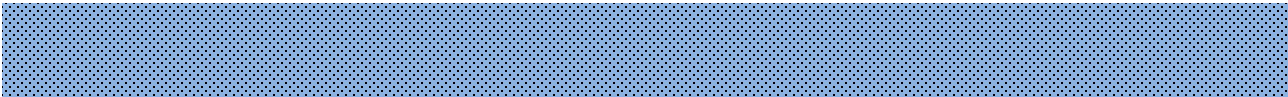
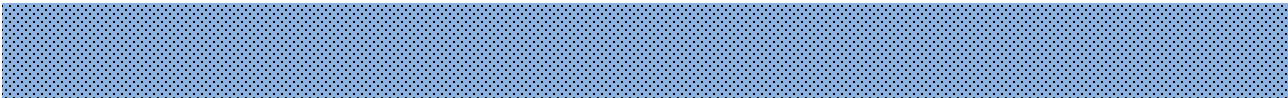
12

24

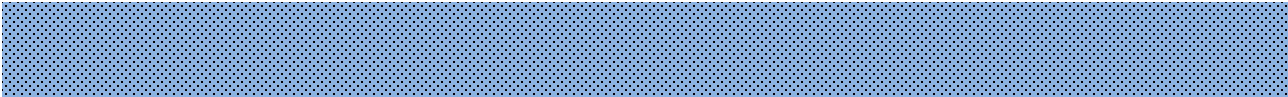
(7.012)

(.021)

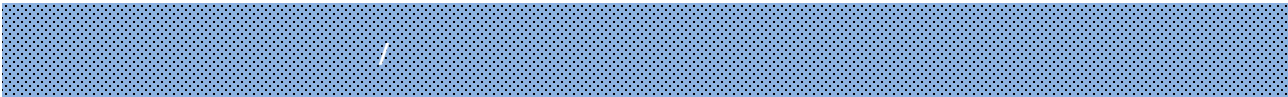
(14.01)



1%
2%
...
70%



10
20
...
120



/

1...200 *100

GVS

KBUS

1...20

10...100 %

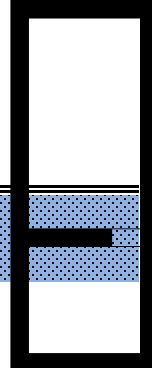
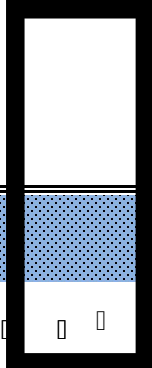
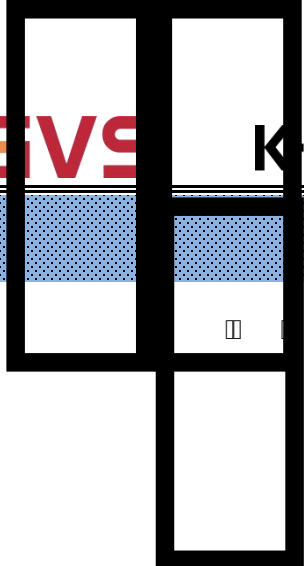
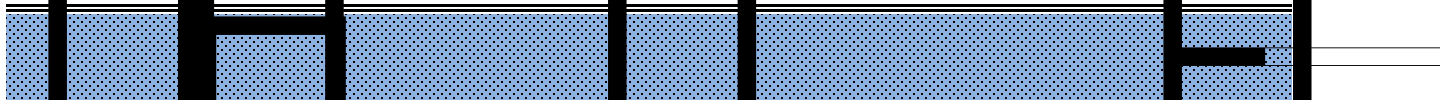
10...100

/

10

,

GVS K-BUS





K-BUS

100

200

500

1

2

5

0...100

0..100

1...240

0...5

1...240

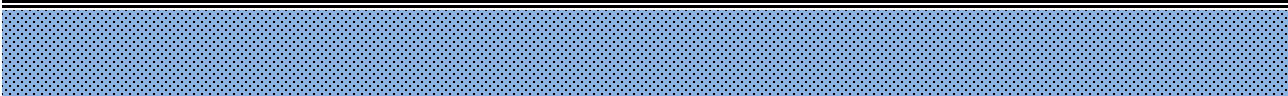
0...5

1

()

1 (-)

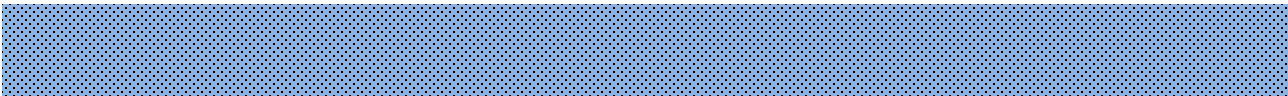
1 ()



, 0% 0 , 1 (1)

, 0% 1 , 0 (1)

, (1)



1 0

0 1

4.5.1

Switch Actuator with Current detection&Secure, 4-Fold > Channel A-... > A:Monitor

KNX Secure

General

Total current

Channel A-...

Cyclic monitoring control value
--in minutes (0...240 minutes)

--in seconds (0...59 seconds)

Valve position during fault

Report fault status

60

00

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

Unchange

☐

--	(0...240	)
---	(0...5	)

0...240

0...5

--	--	--



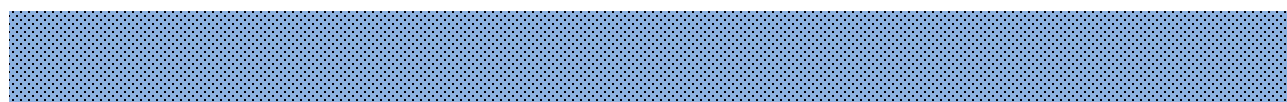
K-BUS

0 % ()

10 % (26)

...

4.5.2



0 % ()

10 %(26)

...

0 %(230)

100 % ()

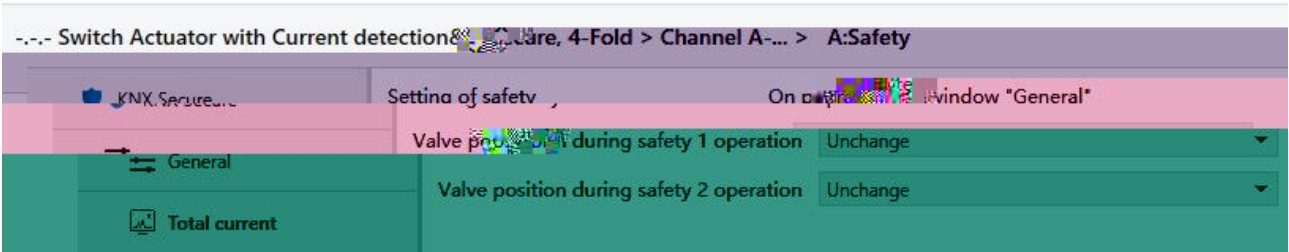
5.

Switch Actuator with Current detection&Secure, 4-Fold Channel A-... > A:Regular

KNX Secure	Time of switch activation in 255s	10 min
General	Automatic switch regularly	Disable

□ □ □

4.5.4



0 % ()

10 %(26)

...

0 %(230)

100 % ()

5.2

5.2.1

	Number *	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
	4	Output A-...	Switch status			1 bit	C	R	-	T	-	switch	Low
	5	Output A-...	Switch			1 bit	C	-	W	-	-	switch	Low

5.2.3

10	Output A-...	Recall preset	1 bit	C	-	W	-	-	scene	Low
11	Output A-...	Store preset	1 bit	C	-	W	-	-	scene	Low

10		- ...	1	,	1.022
11		- ...	1	,	1.022

5.2.4



12	1	- ...	1	,	1.002
13	2	- ...	1	,	1.002

5.2.5

 14	Output A-...	Scene	1 byte	C	-		scene control	Low	
--	--------------	-------	--------	---	---	---	---------------	-----	---

14 - ... 1 , 18.001

5.2.7

 17	Output A-...	Forced operation	1 bit	C	-	W	-	-	switch	Low
 17	Output A-...	Forced operation	2 bit	C	-	W	-	-	switch control	Low

17		- ...	1	,	1.001
17		- ...	2	,	2.001

5.3

5.3.1

Number	Name	Object Function	Description	Group Address	Length	C	P	W	T	U	Data Type	Priority
6	Output A-...	Status (continuous), 1 bit			1 bit	C	R	-	T	-	switch	Low
14	Output A-...	Status (Continuous), 1 byte			1 byte	C	R	-	T	-	percentage (0..100%)	Low
15	Output A-...	Continuous control			1 byte	C	-	W	-	-	percentage (0..100%)	Low

4

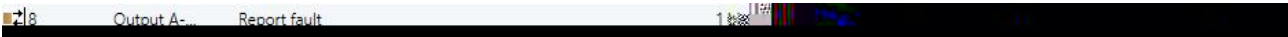
- ...

1

, ,

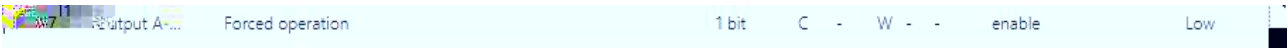
1.001

5.3.2



8		- ...	1	, ,	1.005

5.3.3



17	,	- ...	1	,	1.003

5.3.4



11		- ...	1	,	1.003

5.4

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
172	Total current	Total active energy(Wh)			4 bytes	C	R	W	T	-	active energy (Wh)	Low
173	Total current	Value of total current(mA)			2 bytes	C	R	-	T	-	current (mA)	Low
174	Total current	Exceedance of total load			1 bit	C	R	W	T	-	switch	Low

172	(/)		4	, , ,	13.010 () 13.013 ()
173			2 2 4 4	, ,	7.012 () .021 () 14.01 () .024 ()
174			1	, , ,	1.001

5.5

175	Output A-...	Current value(mA)	2 bytes	C	R	-	T	-	current (mA)	
176	Output A-...	Exceedance of load	1 bit	C	R	-	T	-	switch	Low
177	Output A-...	Lower deviation of load	1 bit	C	R	-	T	-	switch	Low
178	Output A-...	Switch counter	4 bytes	C	R	W	T	-	counter pulses (unsigned)	Low
179	Output A-...	Operation hours	4 bytes	C	R	W	T	-	time lag (s)	Low
180	Output A-...	Active energy(Wh)	4 bytes	C	R	W	T	-	active energy (Wh)	Low

175	()	- ...	2 2 4 4	, ,	7.012 () .021 () 14.01 () .024 ()
176		- ...	1	, ,	1.001
177		- ...	1	, ,	1.001
178		- ...	2 4	, , ,	7.001 12.001
17		- ...	2 4	, , ,	7.007 () 13.100 ()
180	(/)	- ...	4	, , ,	13.010 () 13.013 ()

/