## Lift control interface

Description

Lift control device suitable to interface D45 VDE system with the building elevator system in order to control the lift call to the floor directly from the apartment internal unit. Device must be configured.

NOTE : INSTALLATION AND CONNECTIONS MUST BE ALWAYS PERFORMED ACCORDINGLY TO THE ELEVATOR MANUFACTURER SPECIFICATION.
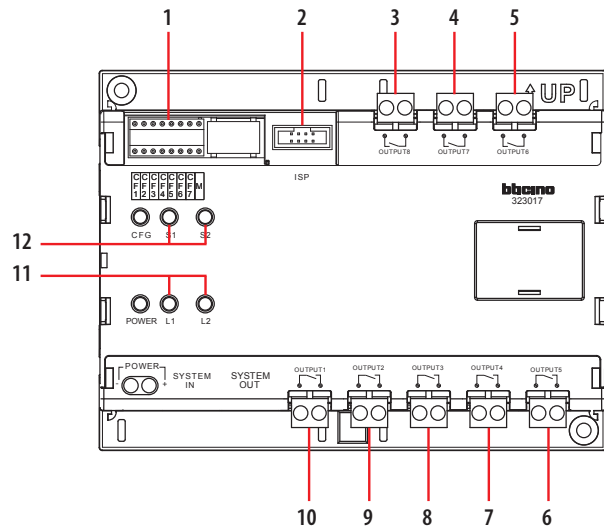
Technical data

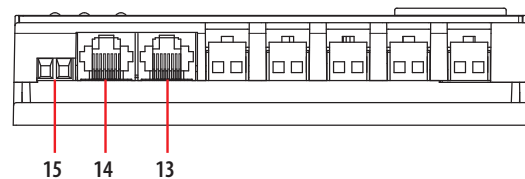|	
Power supply:	30 Vdc
Stand by current absorption:	< 15 mA @ 30 V
Max. operating current absorption:	< 30 mA @ 30 V
Stand by power consumption:	0.45 W
Operating power consumption:	0.9 W
Operating temperature:	(-10)-(+40)°C

Dimensional data
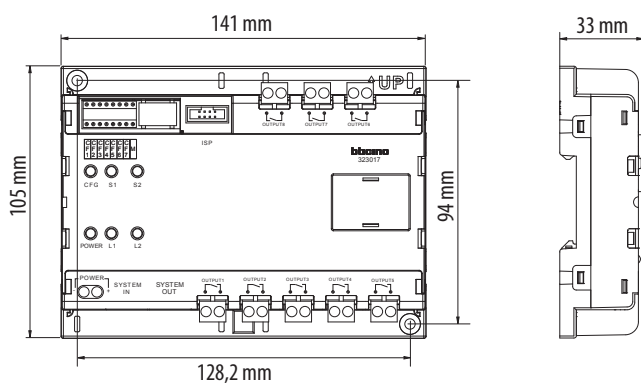
Front view

Lower view

Legend

1. Configurators housing
2. Serial interface connector for PC configuration and firmware update
3. Relay **OUTPUT 8** (connect to the corresponding key of lift)
4. Relay **OUTPUT 7** (connect to the corresponding key of lift)
5. Relay **OUTPUT 6** (connect to the corresponding key of lift)
6. Relay **OUTPUT 5** (connect to the corresponding key of lift)
7. Relay **OUTPUT 4** (connect to the corresponding key of lift)
8. Relay **OUTPUT 3** (connect to the corresponding key of lift)
9. Relay **OUTPUT 2** (connect to the corresponding key of lift)
10. Relay **OUTPUT 1** (connect to the corresponding key of lift)
11. L1 - L2   Lift control status LEDs (see specific section)
12. S1 - S2   Manual device configuration pushbuttons **(NOT USED)**
13. RJ45 System OUT connection
14. RJ45 System IN connection
15. Auxiliary power supply input connector (30V)

Configuration

Lift control interface can be configured in 9 different modes
(M = 1 to 9), depending on the following main requested
features :

(M = 1) - suggested in case of floor with 1 entrance panel and total system entrance
panel number less than 9.

(M = 2 to 9) - suggested in case of floor with more than 1 entrance panel or total system
entrance panels higher than 8.

Indication lights instruction for the corresponding lift control.	(L1) LED	(L2) LED
EP call IU and IU unlock	Flash	Flash
EP unlock with card or password	Flash	No action
IU unlock in idle	No action	Flash
Stand by	No action	No action

Two different device configuration ways available:

WAY 1) Configuration settings by inserting phisical configurators

WAY 2) Configuration by using SF2 Software and PC connection

CONFIGURATION SETTINGS BY INSERTING PHISICAL CONFIGURATORS - WAY 1 :

CF1	CF2	CF3	CF4	CF5	CF6	CF7	M
◎	◎	◎	◎	◎	◎	◎	◎
◎	◎	◎	◎	◎	◎	◎	◎

MODE (M = 1) meaning of the configurators :

CONFIGURATOR	MODE 1	DESCRIPTION
CF1 CF2	FF	FF is corresponding to the 1st. PRIVATE floor (IU floor) managed by the device
CF3 CF4	#II	Apartment number for each floor
CF5 (*1)		Quantity of PRIVATE floor (IU floor) managed by the device
CF6 (*1)		Quantity of PUBLIC floor (EP floor) managed by the device
CF7 (*2)		Delay time setting (see specific table below)
M		Mode selection (1)

WARNINGS :

(*1) - CF5 + CF6 must be ≤ 8
(*2) - Entrance panel calls internal unit and internal unit unlock,the output relay connected to the floor entrance panel act,after delay time,the output relay connected to the floor
internal unit act.

CF7 Delay time selection table

CF7 Configurator	0	1	2	3	4	5	6	7	8	9
Delay time (sec.)	1″	10″	20″	30″	40″	50″	60″	70″	80″	90″

Configuration

(M = 1) Configuration example 1 :

8 floors building. Floors 4 to 8 are "PRIVATE" floors and each floor has 4 apartments. Floors 1 to 3 are "PUBLIC" floor and each floor has 1 entrance panel. The entrance panel adresses are 1 to 3 in correspondance with the 1 to 3 floor number. By setting delay time to 20 seconds (CF7 = 2), the interface configuration value and the correspondance between device OUTPUT and Entrance panel/Internal unit floor will be as follows

CONFIGURATION PLACE	CONFIGURATION VALUE	OUTPUT (N)	EP address/IU floor
CF1	0	OUTPUT1	IU floor 4
CF2	4	OUTPUT2	IU floor 5
CF3	0	OUTPUT3	IU floor 6
CF4	4	OUTPUT4	IU floor 7
CF5	5	OUTPUT5	IU floor 8
CF6	3	OUTPUT6	EP address 1
CF7	2	OUTPUT7	EP address 2
M	1	OUTPUT8	EP address 3

WARNINGS :
- OUTPUT 1 to 5 will manage the corresponding "PRIVATE" floors 4 to 8.
- OUTPUT 6 to 8 will manage the "PUBLIC" floors 1 to 3.

(M = 1) Configuration example 2 :

14 floors building. Floors 2 to 14 are "PRIVATE" floors and each floor has 4 apartments. The 1.st floor is the "PUBLIC" floor and has 1 entrance panel. N°2 lift control interface are requested to manage this system. By setting delay time to 10 seconds (CF7 = 1), the configuration values of the two interfaces will be as follows :

CONFIGURATION PLACE	CONFIGURATION VALUE	
	DEVICE 1	DEVICE 2
CF1	0	0
CF2	2	9
CF3	0	0
CF4	4	4
CF5	7	6
CF6	1	0
CF7	1	1
M	1	1

WARNING
- By this configuration method, DEVICE 1 (OUTPUT 8) will manage the 1.st floor (PUBLIC floor).
  OUTPUT 1 to 7 will manage floors 2 to 8 (PRIVATE floors). DEVICE 2 (OUTPUT 1 to 6) will manage floors 9 to 14 (PRIVATE floors).

Configuration

(M = 2 to 9) meaning of the configurators :

CONFIGURATION PLACE	CONFIGURATION VALUE
CF1 (N=1)	The corresponding OUTPUT channel
CF2 (N=2)	The corresponding OUTPUT channel
CF3 (N=3)	The corresponding OUTPUT channel
CF4 (N=4)	The corresponding OUTPUT channel
CF5 (N=5)	The corresponding OUTPUT channel
CF6 (N=6)	The corresponding OUTPUT channel
CF7 (N=7)	The corresponding OUTPUT channel
M	M=2–9

WARNING

- The relationship between CF(N) and CF(N+1) should meet the rule : CF(N+1) = CF(N) or CF(N+1) = CF(N) + 1
- The configuration value indicate the output channel of the entrance panel address
- Using configuration MODE (M=2 to 9),each channel correspond to one entrance panel address. The entrance panel address can be calculated by the following rule : $A=(M-2) \times 7 + N$.
  A means Entrance Panel address, M means MODE, N means configuration place such as CF1 means N=1. The phisical configuration value means the channel number.

	CF1	CF2	CF3	CF4	CF5	CF6	CF7
M=2	1	2	3	4	5	6	7
M=3	8	9	10	11	12	13	14
M=4	15	16	17	18	19	20	21
M=5	22	23	24	25	26	27	28
M=6	29	30	31	32	33	34	35
M=7	36	37	38	39	40	41	42
M=8	43	44	45	46	47	48	49
M=9	50	51	52	53	54	55	56

(M = 2 to 9) Configuration example 3 :

System with : 2 entrance panels in the underground floor, 3 entrance panels in the 1.st floor. Floors 2 to 9 are "PRIVATE" floors and each floor has 4 apartments.
By setting delay time to 20 seconds (CF7 = 2), the configuration values of the two interfaces will be as follows :

CONFIGURATION PLACE	CONFIGURATION VALUE	
	DEVICE 1	DEVICE 2
CF1	1	0
CF2	1	2
CF3	2	0
CF4	2	4
CF5	2	8
CF6	0	0
CF7	0	2
M	2	1

WARNING

By this configuration method, DEVICE 1 (OUTPUT 1) will manage the 2 entrance panels (EP with address 1 and 2) of the underground floor; DEVICE 1 (OUTPUT 2) will manage the 3 entrance panels (EP with address 3 to 5) of the 1.st floor; DEVICE 2 (OUTPUTS 1 to 8) will manage the "PRIVATE" floors 2 to 9.

Configuration

CONFIGURATION BY USING SF2 SOFTWARE AND PC CONNECTION - WAY2:

This is the (**SUGGESTED**) enhanced way to download the device configuration to the lift control interface device previously created by using SF2 configuration software and a personal computer. To transfer use the configurator hardware tool 323020 serial interface.
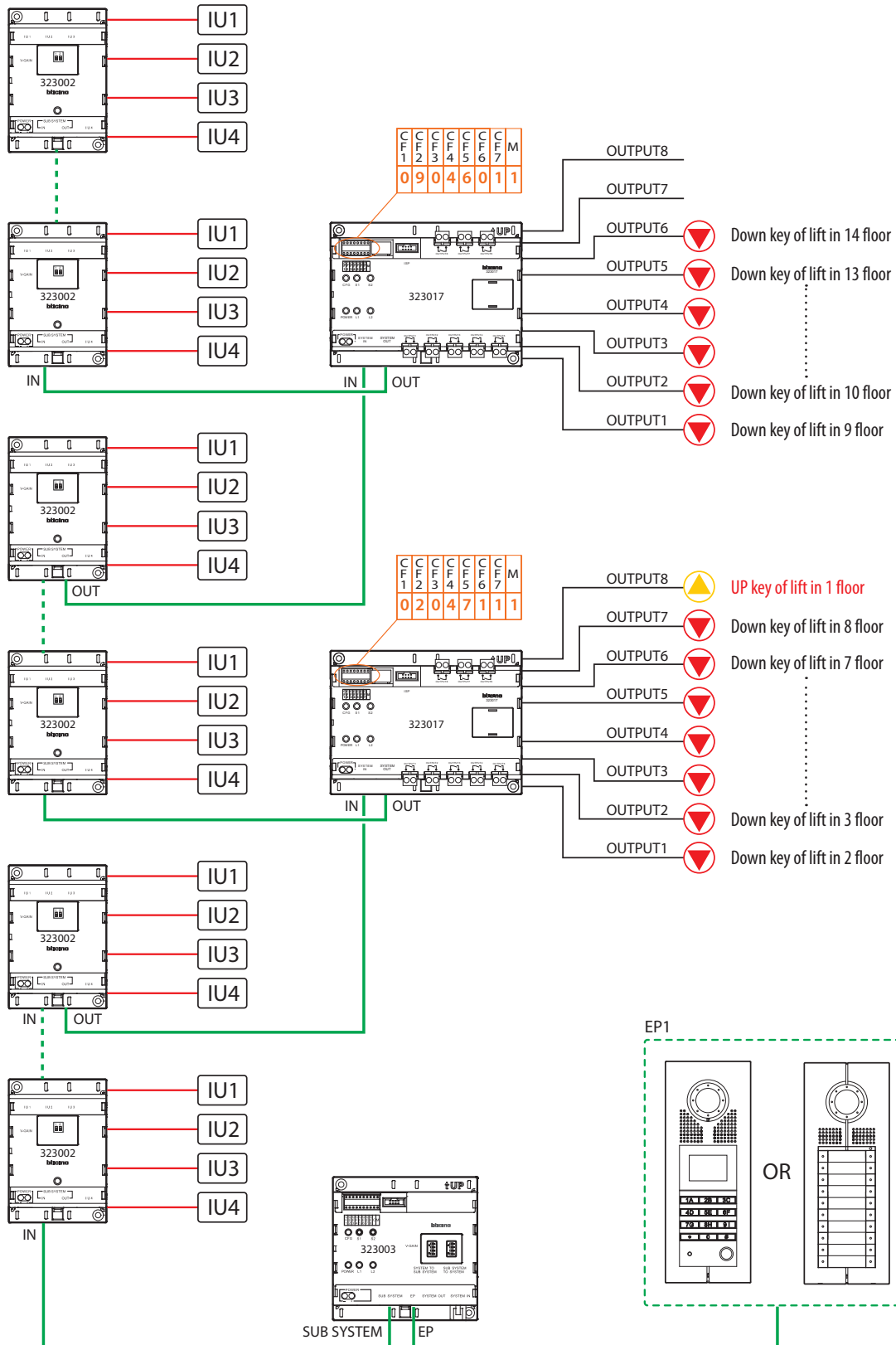

323020
configuration tool
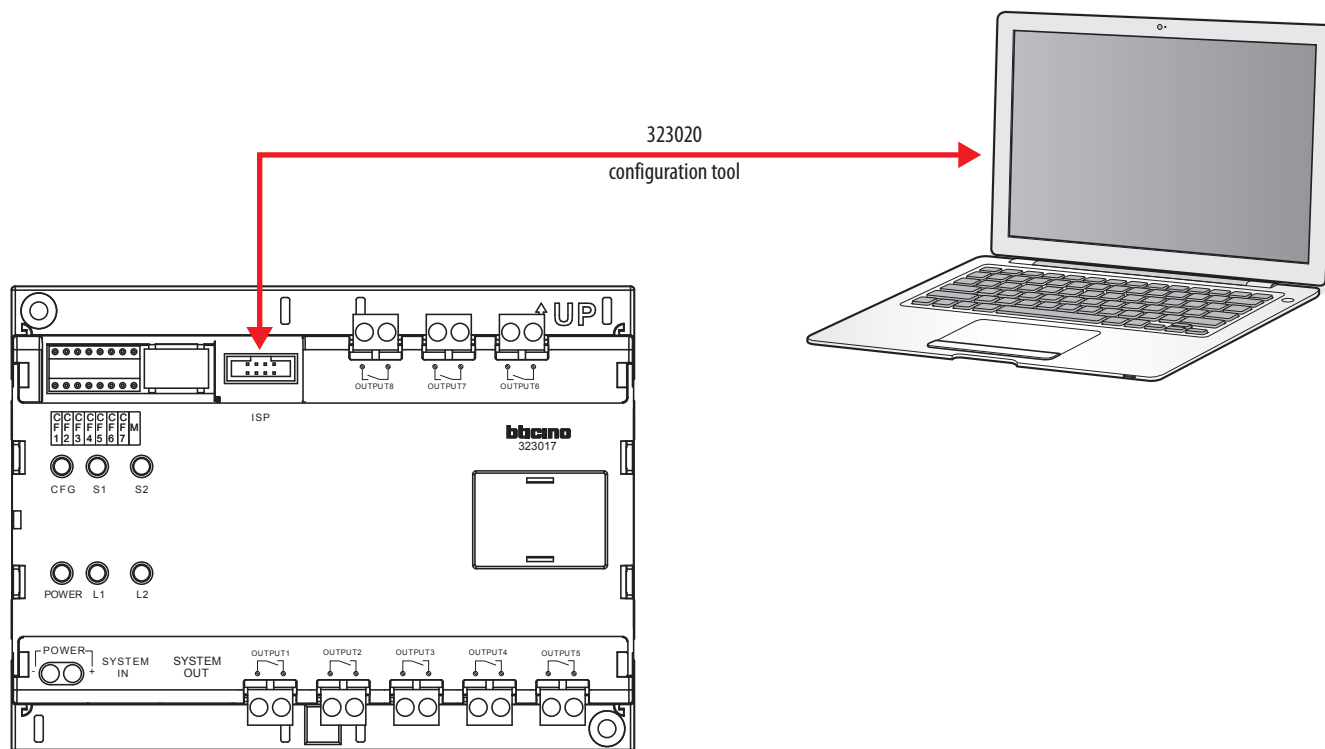
WARNING
In order for the communication to take place, device must be powered and not phisically configured.

Wiring diagram

Wiring diagram example 1:

Building with 14 floors : floors 2 to 14 are PRIVATE floors and every floor has 4 apartments. Floor 1 is a PUBLIC floor with one entrance panel. Delay time set as 10 sec. (CF7 = 1).
This system needs N° 2 lift control interfaces.

C F 1	C F 2	C F 3	C F 4	C F 5	C F 6	C F 7	M
0	9	0	4	6	0	1	1

OUTPUT8
OUTPUT7
OUTPUT6 — Down key of lift in 14 floor
OUTPUT5 — Down key of lift in 13 floor
OUTPUT4
OUTPUT3
OUTPUT2 — Down key of lift in 10 floor
OUTPUT1 — Down key of lift in 9 floor

C F 1	C F 2	C F 3	C F 4	C F 5	C F 6	C F 7	M
0	2	0	4	7	1	1	1

OUTPUT8 — UP key of lift in 1 floor
OUTPUT7 — Down key of lift in 8 floor
OUTPUT6 — Down key of lift in 7 floor
OUTPUT5
OUTPUT4
OUTPUT3
OUTPUT2 — Down key of lift in 3 floor
OUTPUT1 — Down key of lift in 2 floor

EP1

OR

SUB SYSTEM   EP

Wiring diagram

Wiring diagram example 2:

Building with 10 floors: floors 2 to 9 are PRIVATE floors and every floor has 4 apartments. Floor 1 is a PUBLIC floor with three entrance panels (EP address 3 to 5).
The underground floor (-1 floor) has two entrance panels (EP address 1 and 2). Delay time set as 20 sec. (CF7 = 2). This system needs N° 2 lift control interfaces.

CF1	CF2	CF3	CF4	CF5	CF6	CF7	M
0	2	0	4	8	0	2	1

OUTPUT8 — Down key of lift in 9 floor
OUTPUT7 — Down key of lift in 8 floor
OUTPUT6
OUTPUT5
OUTPUT4
OUTPUT3
OUTPUT2 — Down key of lift in 3 floor
OUTPUT1 — Down key of lift in 2 floor

CF1	CF2	CF3	CF4	CF5	CF6	CF7	M
1	1	2	2	2	0	0	2

OUTPUT8
OUTPUT7
OUTPUT6
OUTPUT5
OUTPUT4
OUTPUT3
OUTPUT2 — UP key of lift in 1 floor
OUTPUT1 — UP key of lift in -1 floor

323002

323017

323003

323004

SUB SYSTEM | EP | EP OUT

EP 5, EP 4, EP 3, EP 2, EP 1

1 FLOOR
EP3 — EP4 — EP5

-1 FLOOR
EP1 — EP2