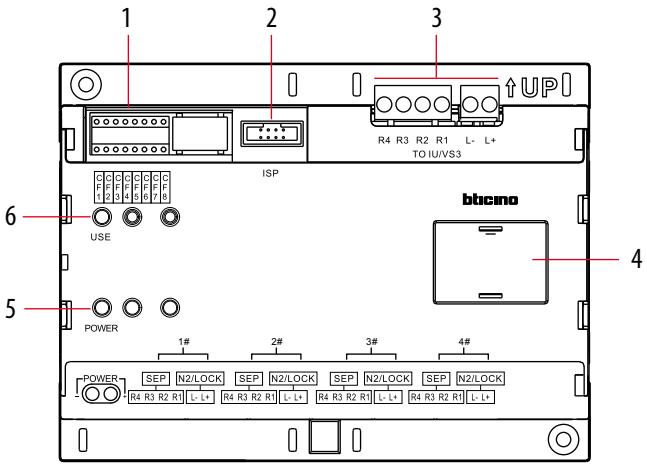
Small entrance panel video mixer

323023

Description

D45 System interface device to be used to connect and switch multiple SEP (Small Entrance Panel). Generally is possible to connect 4 SEPs but in some special cases you can connect (by cascade connection - max. 2 levels) up to 16 SEPs. Settings by an 8 positions DIP SWITCH.

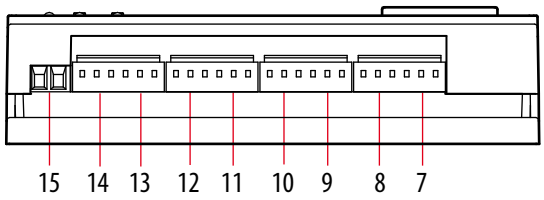
Front view



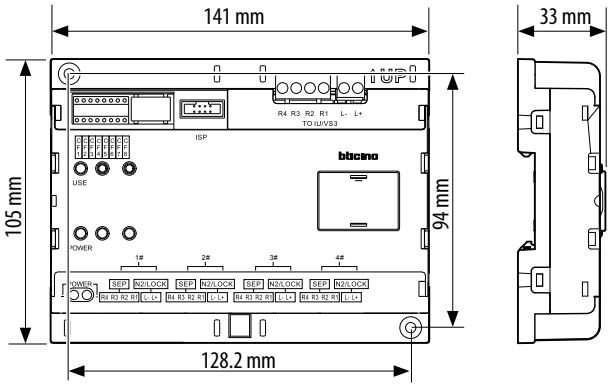
Technical data

Power supply:	18 - 30 Vdc
Stand by absorption:	≤ 15 mA @ 30 V
Max operating absorption:	≤ 1 A@30 V
Stand by power consumption:	≤ 0.45 W
Operating power consumption:	≤ 30 W
Door lock maximum current :	400 mA
Operating temperature :	(-10) - (+40)°C

Lower view



Dimensional data



Legend

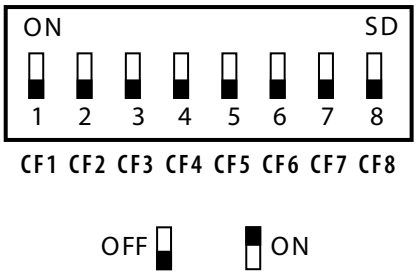
1. Configurators housing
2. (ISP) serial interface connector for PC configuration and firmware update
3. Internal unit or (323009) apartment interface connector
4. 8 positions SETTINGS DIP SWITCH
5. Power supply LED
6. Conversation status LED
7. (**SEP 4**) SEP 4 door lock (L- L+) or (323015) door lock accessory connection
8. (**SEP 4**) small entrance panel 4 (R1-R2-R3-R4) input connector
9. (**SEP 3**) SEP 3 door lock (L- L+) or (323015) door lock accessory connection
10. (**SEP 3**) small entrance panel 3 (R1-R2-R3-R4) input connector
11. (**SEP 2**) door lock (L- L+) or (323015) door lock accessory connection
12. (**SEP 2**) small entrance panel 2 (R1-R2-R3-R4) input connector
13. (**SEP 1**) door lock (L- L+) or (323015) door lock accessory connection
14. (**SEP 1**) small entrance panel 1 (R1-R2-R3-R4) input connector
15. Auxiliary power supply input connector (30 V)

Number of Small Entrance Panel (SEP) SETTINGS

During the installation, the real number of Small Entrance Panel (SEP) must be set. Settings must be performed by DIP SWITCH **(CF1 - CF2 - CF3 - CF4)** as for **8421 BCD CODE**. CF1 is the high-order place and CF4 is the low-order place. When the switch is turned to **ON, it's 1** and when to **OFF, it's 0**. The number of SEP to be monitored is equals to the set number plus 1 - as for the following formula :
(CF1 x 8 + CF2x 4 + CF3x 2 + CF4 x 1) + (1).

For example, when (CF1=0), (CF2 = 0), (CF3 = 1) and (CF4= 1), **the number of connected SEPs is** : (0 x 8)+(0 x 4)+(1 x 2)+(1 x 1)+1 = **4 (units)**

Code switches (CF1 - CF2 - CF3 - CF4) are also used to **set the SEPs extension number** as for the following table :

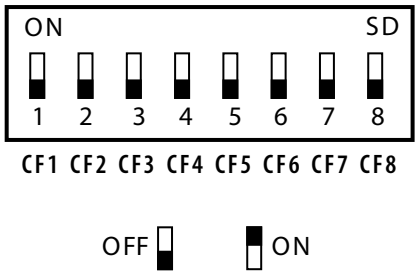


SEP EXTENSION NUMBER	CF1	CF2	CF3	CF4
1 SEP	OFF	OFF	OFF	OFF
2 SEPs	OFF	OFF	OFF	ON
3 SEPs	OFF	OFF	ON	OFF
4 SEPs (Factory settings)	OFF	OFF	ON	ON
5 SEPs	OFF	ON	OFF	OFF
6 SEPs	OFF	ON	OFF	ON
7 SEPs	OFF	ON	ON	OFF
8 SEPs	OFF	ON	ON	ON
9 SEPs	ON	OFF	OFF	OFF
10 SEPs	ON	OFF	OFF	ON
11 SEPs	ON	OFF	ON	OFF
12 SEPs	ON	OFF	ON	ON
13 SEPs	ON	ON	OFF	OFF
14 SEPs	ON	ON	OFF	ON
15 SEPs	ON	ON	ON	OFF
16 SEPs	ON	ON	ON	ON

Electronic DOOR LOCK type SETTINGS

Device can operate/open both positive and negative door locks.
Positive lock = no power supply in stand by than powered ON to open the door lock.
Negative lock = powered in stand by than powered OFF to open the door lock.

Door lock number and type settings must be performed by DIP SWITCH **(CF5 - CF6 - CF7 - CF8)** as for the following table :

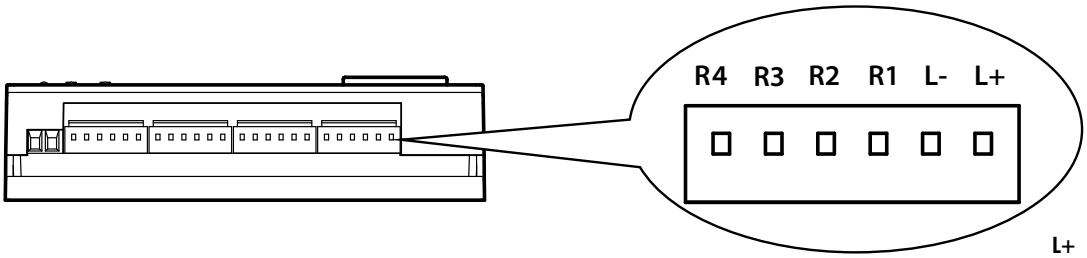


DIP position	CF5 (First lock)	CF6 (Second lock)	CF7 (Third lock)	CF8 (Fourth lock)
ON	Negative lock	Negative lock	Negative lock	Negative lock
OFF	Positive lock	Positive lock	Positive lock	Positive lock

NOTE : if (N2/LOCK) is connected by using door lock accessory (323015) or is connected to another SEP Video mixer 323023, the corresponding switch must be set to OFF.

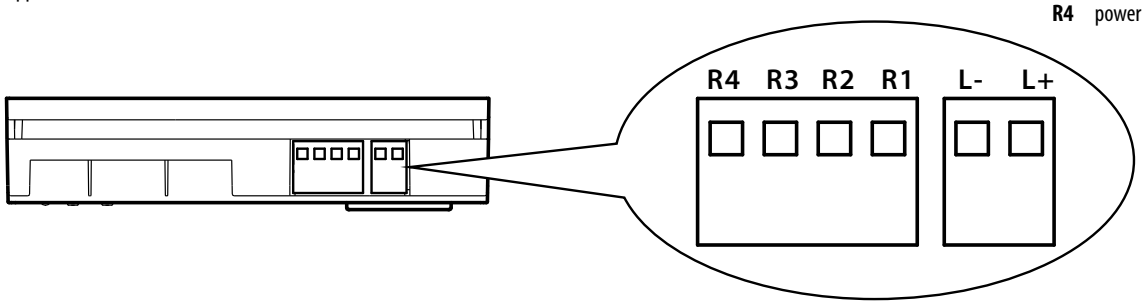
Device connection details

Lower side connections



L+ positive door lock signal
L– negative door lock signal
R1 video signal line
R2 earth line
R3 audio signal line
R4 power line for the SEP

Upper side connections

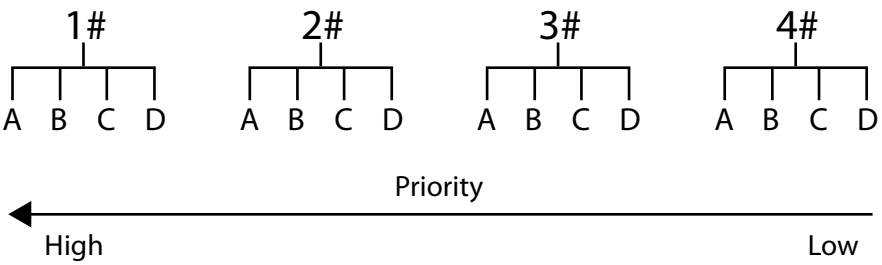


Small Entrance Panels (SEP) monitoring details

When several Small Entrance Panels (SEP) are connected to the system by 323023 device, from the video internal unit you can monitoring each SEP by pressing the monitor key. Double press on the monitor key to monitor the first SEP (1#), than hang up and double press the monitor key again to monitor the second SEP (2#) and so on.

Monitoring sequence as follows :

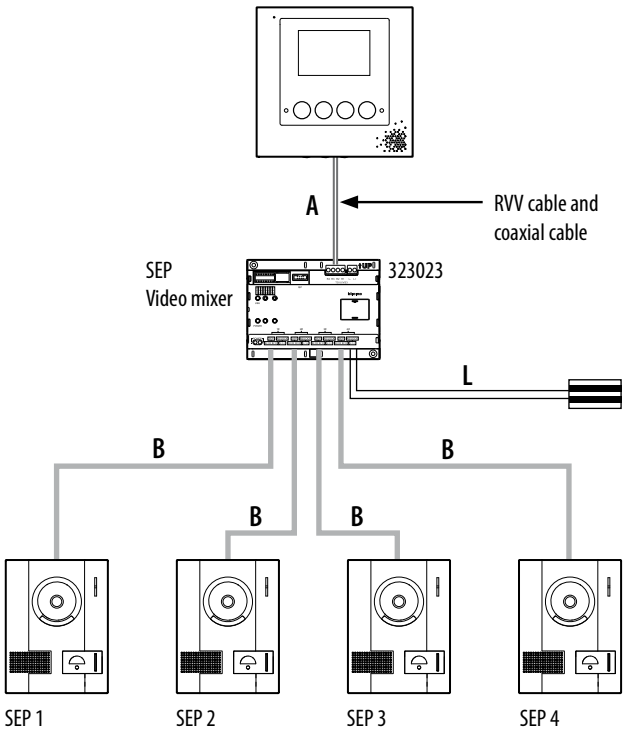
1#A > 1#B > 1#C > 1#D > 2#A > 2#B > 2#C > 2#D > 3#A > 3#B > 3#C > 3#D > 4#A > 4#B > 4#C > 4#D



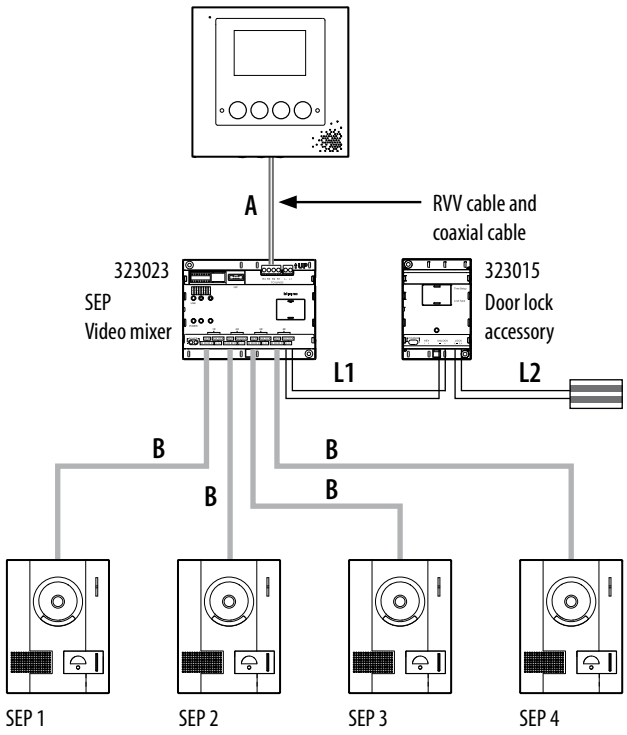
ONE LEVEL SYSTEM CONNECTION SEQUENCE : **1# > 2# > 3# > 4#**

TWO LEVELS SYSTEM CONNECTION SEQUENCE : **1#A > 1#B > 1#C > 1#D > 2#A > 2#B > 2#C > 2#D > 3#A > 3#B > 3#C > 3#D > 4#A > 4#B > 4#C > 4#D**

Wiring diagram - 1



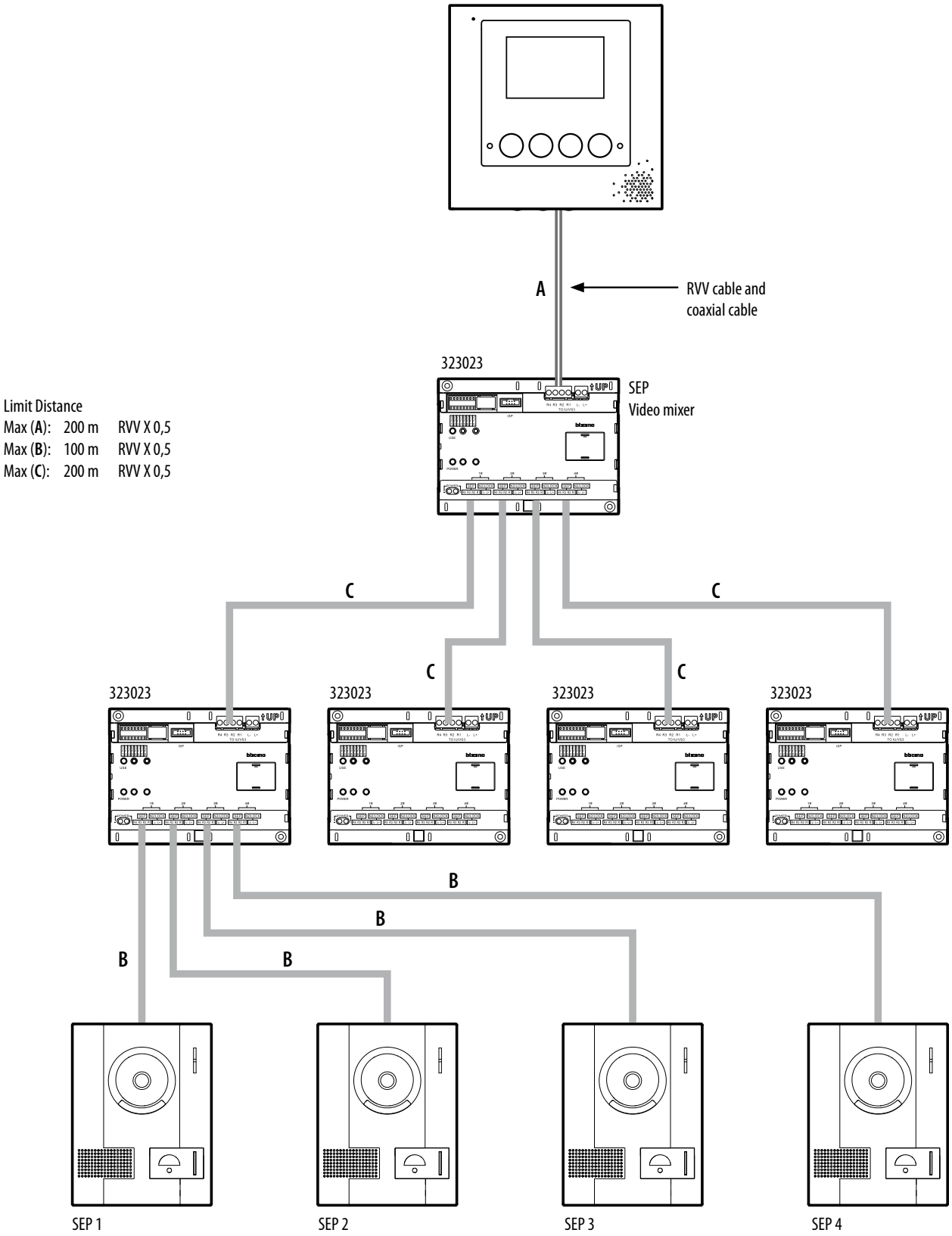
Limit Distance
Max (**A**): 200 m RVV X 0,5
Max (**B**): 100 m RVV X 0,5
Max (**L**): 15 m RVV2 X 1,0



Limit Distance
Max (**A**): 200 m RVV X 0,5
Max (**B**): 100 m RVV X 0,5
Max (**L1**): 50 m RVV2 X 1,0
Max (**L2**): 15 m RVV2 X 1,0

Wiring diagram - 2

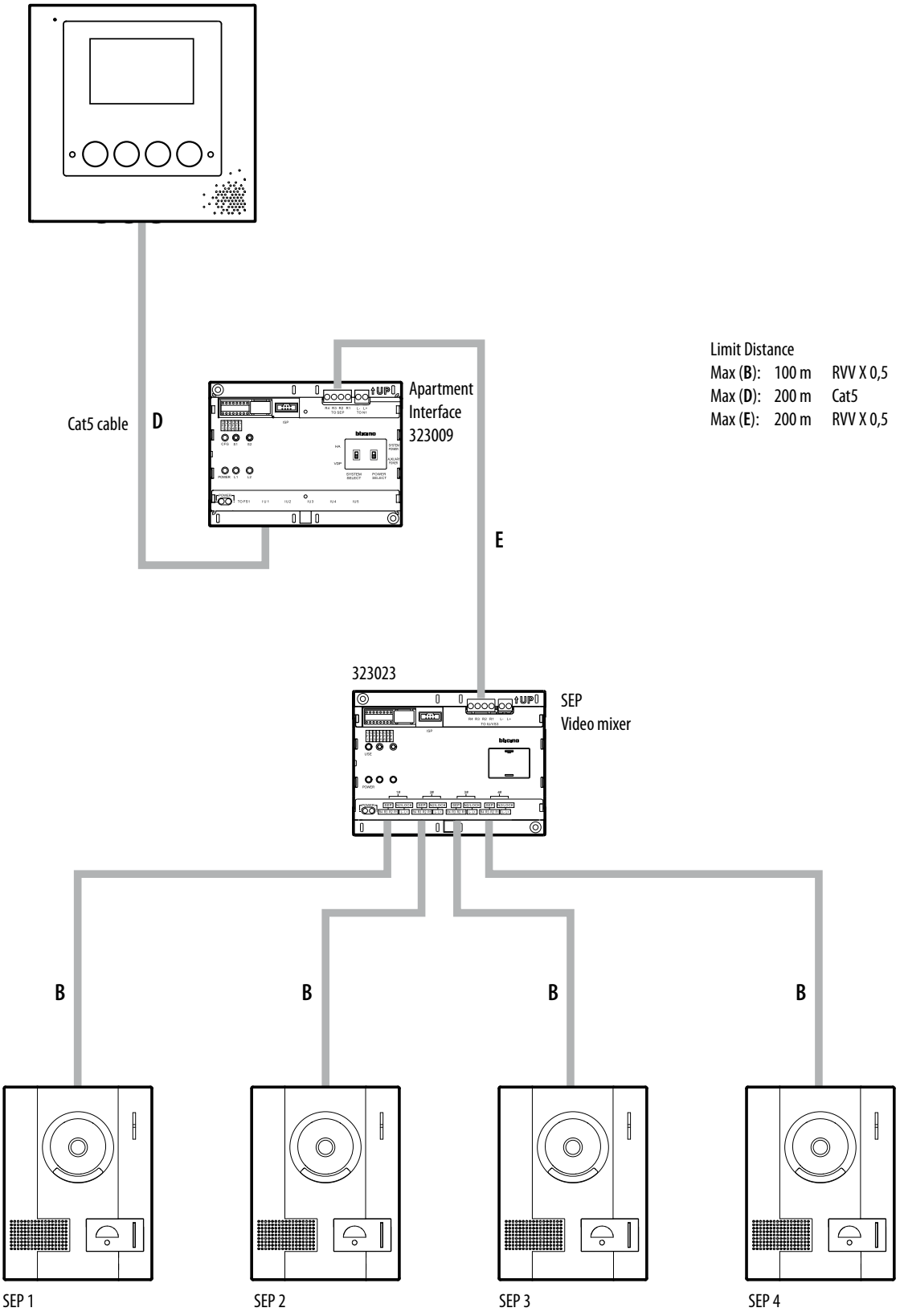
SEP Video mixer cascade connections



Limit Distance

Max (**A**):	200 m	RVV X 0,5
Max (**B**):	100 m	RVV X 0,5
Max (**C**):	200 m	RVV X 0,5

Wiring diagram - 3



Wiring diagram - 4