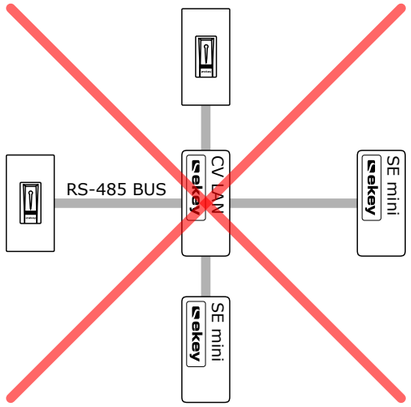
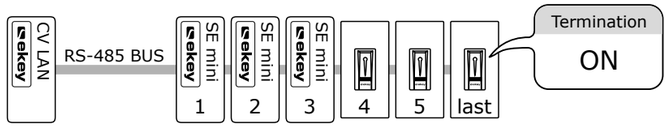
General information:

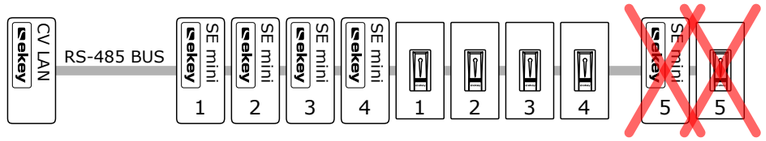
No star topology**!**



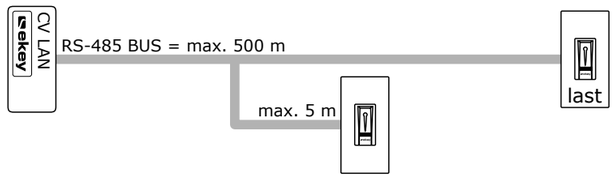
Switch the termination of the **last** device in the RS-485 bus line to **"ON"**



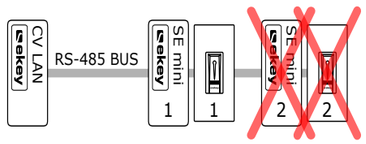
Maximum 4 FS [S and M] and 4 other devices in the RS-485 bus segment



Mind the **maximum length** of the RS-485 bus segment



Maximum 1 FS [L] and 1 control panel in the RS-485 bus segment



ekey
YOUR FINGER. YOUR KEY.

VERKABELUNGSPLAN
WIRING DIAGRAM

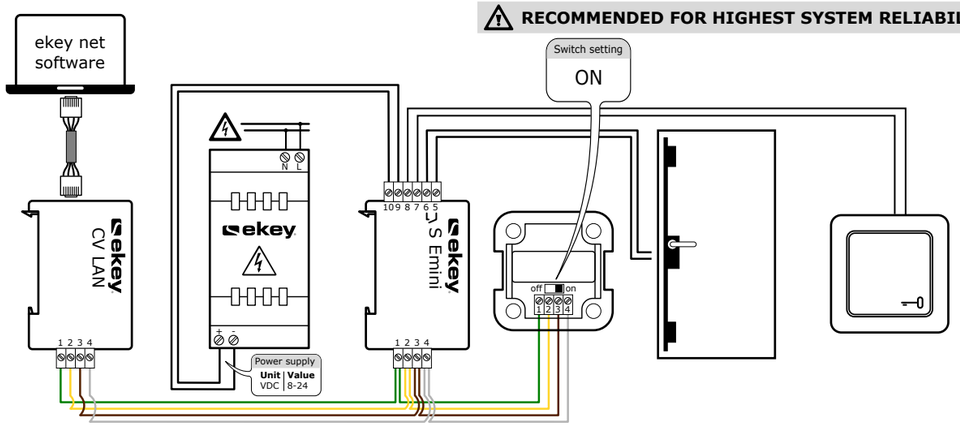
ID79/687: Version 9, 2018-10-23
http://www.ekey.net/downloads

800553

CABLE RECOMMENDATION
J-Y(ST)Y with ø 0.6 or 0.8 mm

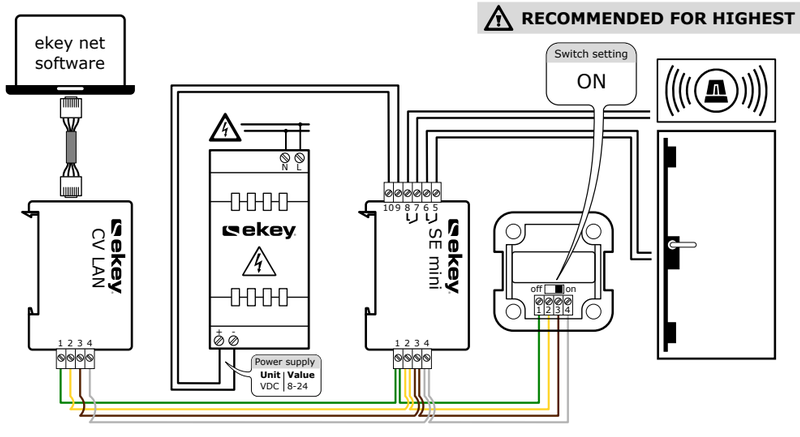
1 Wiring example: 1 ekey net CV LAN + 1 ekey net CP mini 1 + 1 ekey net FS [S/M/L]

RECOMMENDED FOR HIGHEST SYSTEM RELIABILITY!



2 Wiring example: 1 ekey net CV LAN + 1 ekey net CP mini 2 + 1 ekey net FS [S/M/L]

RECOMMENDED FOR HIGHEST SYSTEM RELIABILITY!



Terminal configuration

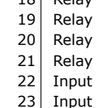
ekey net finger scanner

PIN	DESCRIPTION
1	RS-485 (clamp 1)
2	RS-485 (clamp 2)
3	Power supply FS
4	Power supply FS
5	Relay C (common)
6	Relay NO (normally open)
7	Input - door status
8	Input - door status

PIN	DESCRIPTION
1	RS-485 (clamp 1)
2	RS-485 (clamp 2)
3	Power supply FS
4	Power supply FS
5	Relay C (common)
6	Relay NO (normally open)
7	Input - door status
8	Input - door status

PIN	DESCRIPTION
4	RS-485 (clamp 1) - green
5	RS-485 (clamp 2) - yellow
7	Power supply FS - brown
8	Power supply FS - white

ekey net control panel



PIN	DESCRIPTION
1	RS-485 (clamp 1)
2	RS-485 (clamp 2)
3	Power supply
4	Power supply
5	Relay 1 C (common)
6	Relay 1 NO (normally open)
7	Input - door status / relay 2 C
8	Input - door status / relay 2 NO
9	-VCC
10	+VCC (8-24 VDC)

PIN	DESCRIPTION
1	RS-485 (clamp 1)
2	RS-485 (clamp 2)
3	Power supply
4	Power supply
5	+VCC (8-24 VDC)
6	-VCC
7	Relay 1 C (common)
8	Relay 1 NO (normally open)
9	Relay 1 NC (normally closed)
10	Input 1/2 common
11	Input 1 - door status
12	Input 2 - door status
13	Relay 2 C (common)
14	Relay 2 NO (normally open)
15	Relay 2 NC (normally closed)
16	Relay 3 C (common)
17	Relay 3 NO (normally open)
18	Relay 3 NC (normally closed)
19	Relay 4 C (common)
20	Relay 4 NO (normally open)
21	Relay 4 NC (normally closed)
22	Input 3/4 common
23	Input 3 - door status
24	Input 4 - door status

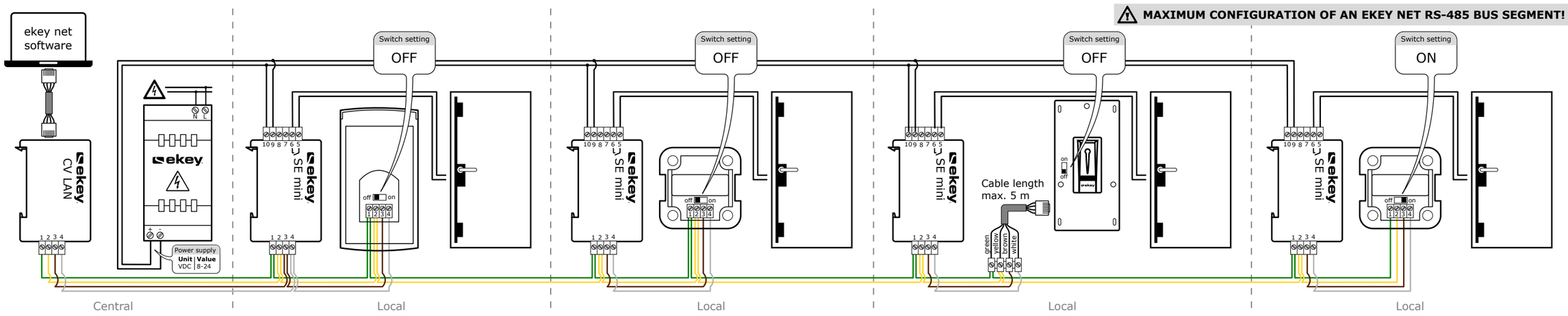
PIN	DESCRIPTION
1	RS-485 (clamp 1)
2	RS-485 (clamp 2)
CH1	Relay 1 C (common)
	Relay 1 NO (normally open)
	Relay 1 NC (normally closed)
CH2	Relay 2 C (common)
	Relay 2 NO (normally open)
	Relay 2 NC (normally closed)
CH3	Relay 3 C (common)
	Relay 3 NO (normally open)
	Relay 3 NC (normally closed)
3	Power supply FS
4	Power supply FS
9VAC	+VCC (8-12 VDC)
9VAC	-VCC

ekey net converter

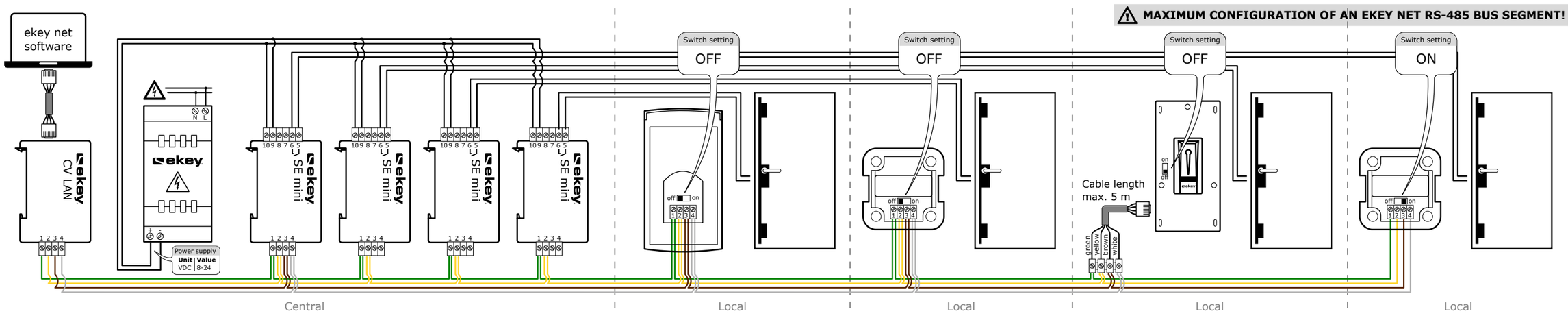
PIN	DESCRIPTION
1	RS-485 (clamp 1)
2	RS-485 (clamp 2)
3	Power supply
4	Power supply
	IP address (default settings)
	192.168.1.250

PIN	DESCRIPTION
1	RS-485 (clamp 1)
2	RS-485 (clamp 2)
3	Power supply
4	Power supply
5	WIEGAND D0
6	WIEGAND D1
7	GND
8	Unused
9	Unused
10	Unused

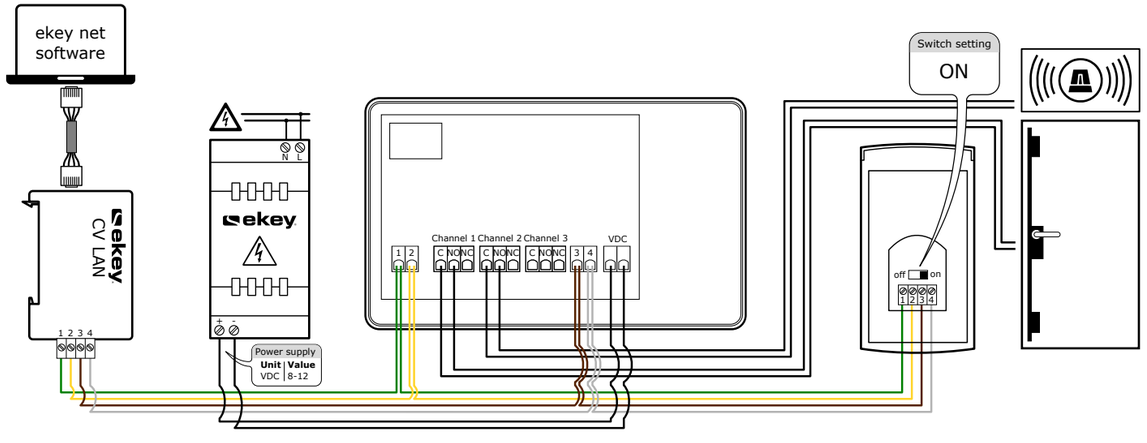
3a **Wiring example:** 1 ekey net CV LAN + 4 ekey net CP mini 1 + 4 ekey net FS [S/M]



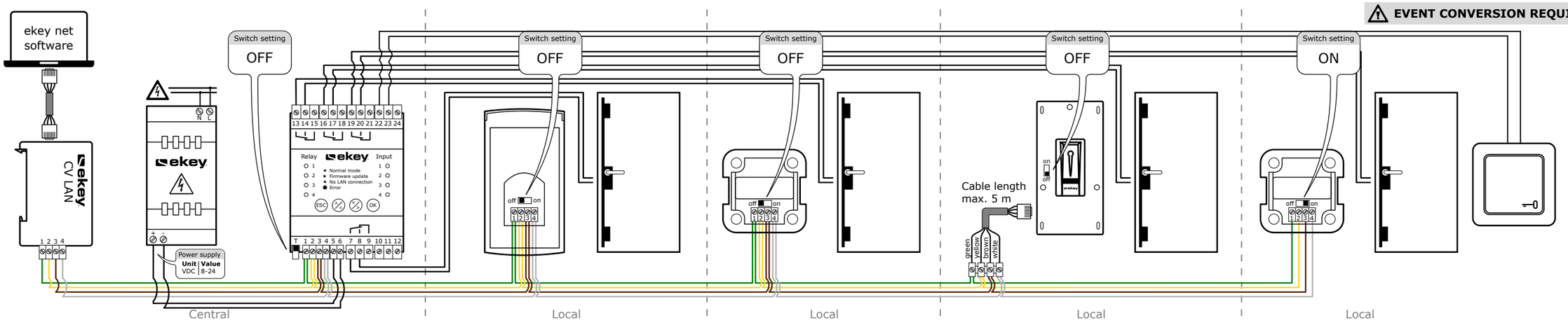
3b **Wiring example:** 1 ekey net CV LAN + 4 ekey net CP mini 1 + 4 ekey net FS [S/M]



4 **Wiring example:** 1 ekey net CV LAN + 1 ekey net CP WM 3 + 1 ekey net FS [S/M/L]



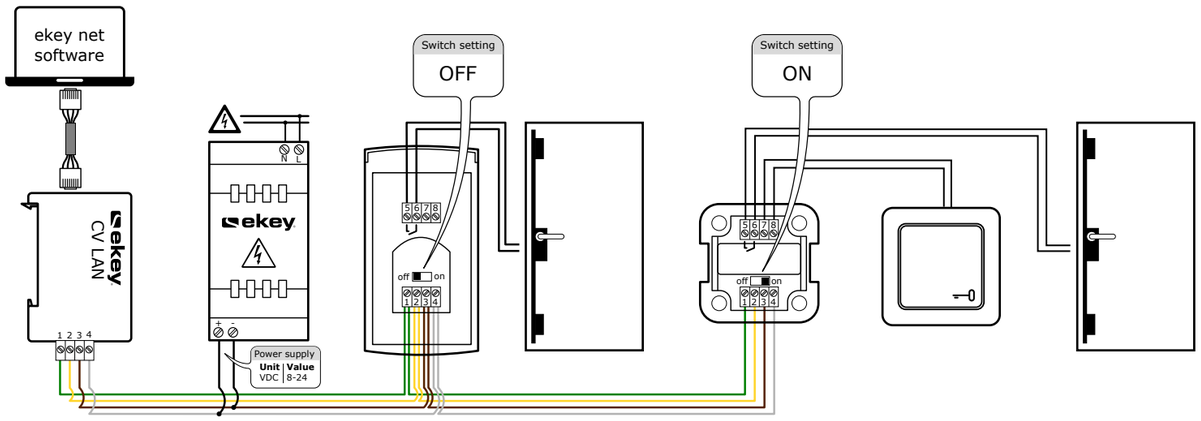
5 **Wiring example:** 1 ekey net CV LAN + 1 ekey net CP DRM 4 + 4 ekey net FS [S/M]



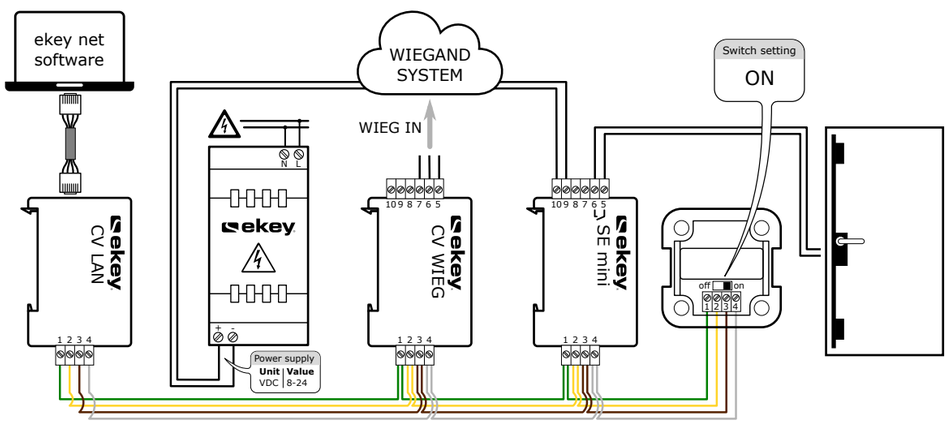
EVENT CONVERSION REQUIRED!

6 **Wiring example INDOOR:** 1 ekey net CV LAN + 2 ekey net FS REL [S/M]

NOT SUITABLE FOR EXTERIOR DOORS! (LOWER SECURITY LEVEL)

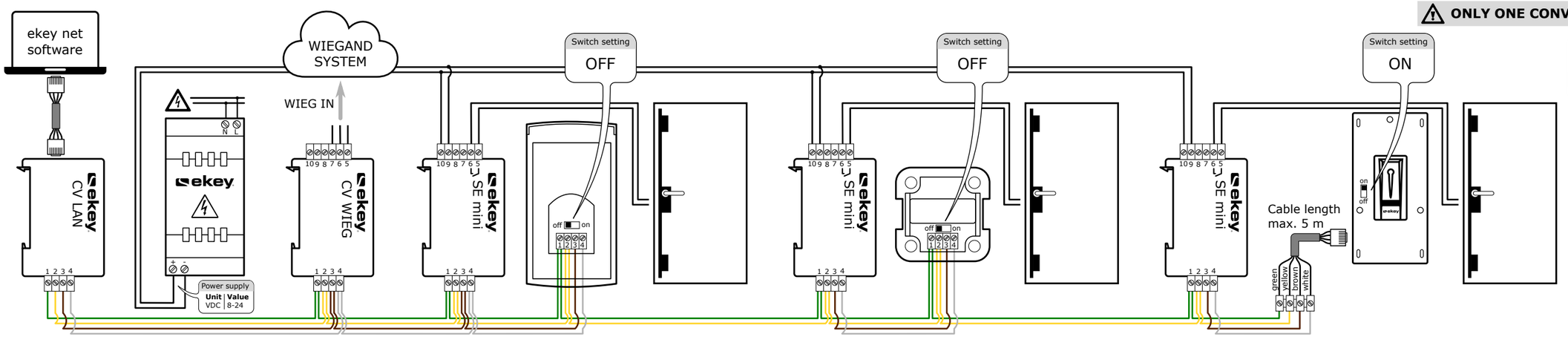


7 **Wiring example WIEGAND:** 1 ekey net CV LAN + 1 ekey net CV WIEG + 1 ekey net CP mini 1 + 1 ekey net FS [S/M]



8 Wiring example WIEGAND: 1 ekey net CV LAN + 1 ekey net CV WIEG + 3 ekey net CP mini 1 + 3 ekey net FS [S/M]

⚠ ONLY ONE CONVERTER WIEGAND IS NECESSARY!



NOTE

Wiegand system must be able to interpret the facility code!

9 Wiring example WIEGAND: 1 ekey net CV LAN + 1 ekey net CV WIEG + 1 ekey net FS [S/M/L]

⚠ DOOR CONTROL VIA EXTERNAL SYSTEM!