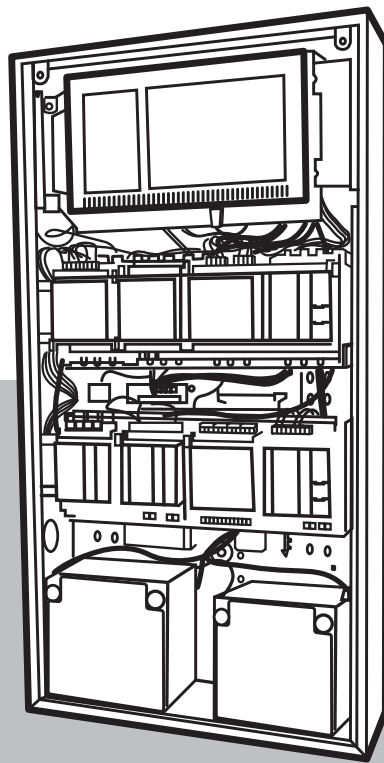


AVENAR panel series



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1 Oznámení

1.1 Obsah

V této příručce pro zapojení je popsán princip zapojení periferních zařízení k ústředně EPS. Národní a místní předpisy nejsou zohledněny. Uplatňování národních a místních požadavků znamená zpravidla provádění dalších zapojení.



Upozornění!

Připojení popsaná v tomto dokumentu se vztahují také na AVENAR panel 2000, avšak jen za předpokladu, že jednotlivé součásti byly společností Bosch Sicherheitssysteme GmbH schváleny jako rozšíření k AVENAR panel 2000.



Upozornění!

Připojení LSN 0300 A popsaná v tomto dokumentu platí také pro modul LSN 1500 A. Uvažme pro modul, že pro LSN 1500 A instalaci v Německu, kde se vyžaduje shoda s VdS 2540 a vedení linech AUX a LSN musí být provedeno v oddělených kabelech.

1.2 Informace o výrobku

- Pokyny k instalaci jednotlivých součástí ústředny EPS naleznete v příložené instalační příručce.
- Další informace (uživatelské příručky, průvodce sítěmi, systémové příručky) jsou k dispozici na internetu na adrese: www.boschsecurity.com

1.3 Důležité poznámky

- Používejte pouze instalační materiály doporučené společností Bosch Security Systems.
- Při konverzi a pájení vždy noste uzemňovací zápěstní řemínek.
- Montáž a instalaci smí provádět pouze kvalifikovaný odborník.
- Dodržujte požadavky na připojení stanovené místními úřady a institucemi.



Nebezpečí!

Dotýkat se součástí pod napětím může mít smrtelné následky.
Před zahájením instalačních prací odpojte napájení.

Stíněný vodič kabelu

Stíněný vodič kabelu je nutný u všech dvouvodičových přípojek k CZM 0004 A a k připojení následujících produktů:

- FBF 100 LSN
- FMF-ADP, FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3

Vzor zapojení ukazuje použití stíněného vodiče kabelu.



Upozornění!

Pokud je nutné připojit stíněný vodič kabelu LSN, pokračujte dle specifikací LSN.

- Připojte stínění kabelu LSN na straně panelu k příslušnému funkčnímu uzemňovacímu konektoru:

dvě připojení na začátku a na konci smyčky

, jedno připojení na začátku přímé linky

- Smyčka přes stínění kabelu na všech periferních zařízeních LSN pomocí přiložených svorek

- Žádné další připojení stínění kabelu LSN není povoleno, a to ani nikde na uzemňovací konektory, ani na jiný elektrický potenciál

1.4 Upozornění pro uživatele

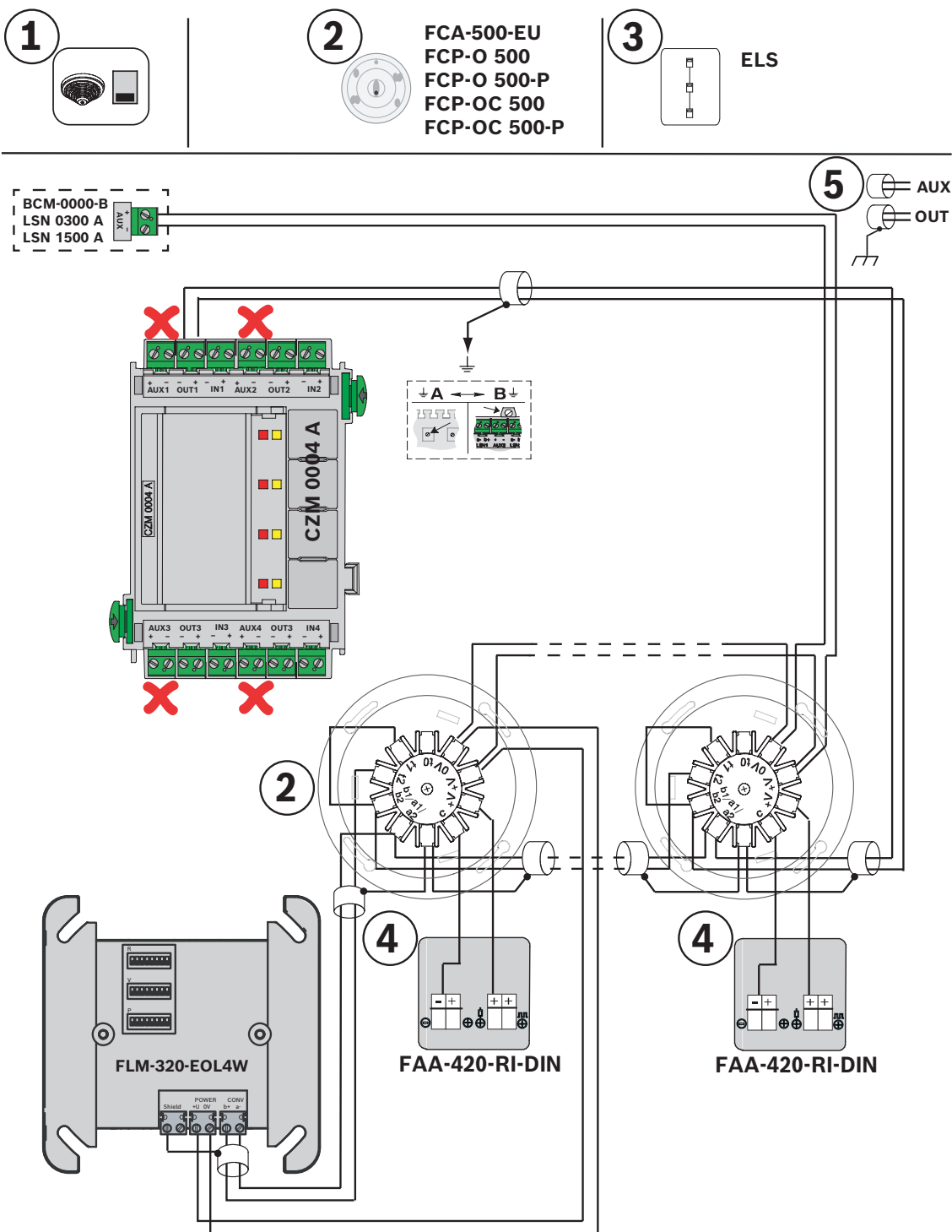
Příručka pro zapojení je uspořádána následujícím způsobem:

- Kapitola Kabeláž je seřazena podle typu zařízení, ke kterému je periferní zařízení připojeno. Kabeláž znázorňuje přímé připojení jednoho zařízení k druhému (žádné kaskádové zapojení).
- Je zde popsán soubor všech typů kabeláže, které jsou v části EOL doplněny o přidavné moduly EOL pro sledování narůstajících otevřených obvodů.

K nalezení požadované kabeláže můžete použít také:













- obsah na začátku kapitoly Kabeláž a na začátku částí Funkční moduly, Vazební členy, EOL,
- Index (bez ohledu na jazyk)
- a fulltextové vyhledávání.

Podívejte se na následující ukázkové zapojení:




















1	Symboly kapitol (<i>Symboly kapitol, stránka 7</i>)
2	Připojitelná periferní zařízení
3	Symboly připojení (<i>Symboly připojení, stránka 7</i>)
4	Volitelné součásti
5	Napájení a zapojení (<i>Napájení a zapojení, stránka 8</i>)

1.4.1 Symboly kapitol



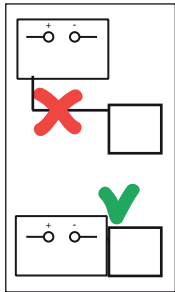
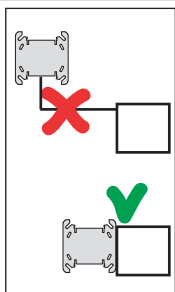

	Automatické hlásiče		Ovládací a zobrazovací panely		Tiskárna
	Napájení		Funkční moduly		Zařízení pro požární ochranu
	Vazební členy		Hasicí systémy		Manuální tlačítkové hlásiče požáru
	Signalizační zařízení		Ovládací prvky dveří		Přenosové jednotky

1.4.2 Symboly připojení

	Povinná kabeláž		Volitelná kabeláž		Nepovoleno
	Záloha		Kabeláž kruhového vedení		Kabeláž kruhového vedení se záložním prvkem
	Kabeláž přímého vedení		Záložní kabeláž přímého vedení		Kabeláž přímého vedení se záložním prvkem
	Záložní kabeláž přímého vedení se záložním prvkem	ELS	Toto vedení je kompatibilní s VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS znamená rozšířené sledování linky ve smyslu sledování vzniku plíživého zkratu a narůstajících přerušovaných obvodů. Tuto kabeláž je možné vybavit ELS. Plíživý zkrat je možno detekovat pomocí modulů LSN 0300 A, LSN 1500 A a BCM-0000-B za použití FPP-5000-TI13.		Toto kruhové zapojení je kompatibilní s VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. Nabízí ELS. Další moduly EOL nejsou nutné.
	Synchronizace		Prostředí s nebezpečím výbuchu		Ústředna
	Samostatná ústředna		Samostatná ústředna se zálohou		Pro patice hlásiče: kabeláž lze použít pouze pro patici, na které je hlásič nainstalován.

EN 54-2, DIBT atd.	Je-li vyžadován soulad s tímto standardem, použijte uvedenou kabeláž.				
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1.4.3 Napájení a zapojení

	Je nutný kabel, 2vodičový.
	Je nutný stíněný kabel, 2vodičový.
	Pouzdro výrobku obsahující zdroj napájení musí být namontováno v rovině s prvkem.
	U vazebního členu se vyžaduje zápusťná montáž.
 Reset action	Viz kabeláž v tomto návodu. Chcete-li zajistit automatické resetování zařízení, musíte obnovit výchozí nastavení.

1.5 Hodnoty odporu

V následující tabulce je uveden přehled barevného označení rezistorů. Rezistory s kovovou vrstvou dodávané s výrobkem mají pět různobarevných pásek, které označují hodnotu jejich odporu.

Barevný	1. pásek	2. pásek	3. pásek	4. pásek (multiplikátor)	5. pásek (tolerance)
Stříbrný				10^{-2}	$\pm 10\%$
Zlatý				10^{-1}	$\pm 5\%$
Černý		0	0	10^0	
Hnědý	1	1	1	10^1	$\pm 1\%$
Červený	2	2	2	10^2	$\pm 2\%$
Oranžový	3	3	3	10^3	$\pm 0.05\%$
Žlutý	4	4	4	10^4	$\pm 0.02\%$

Barevný	1. pásek	2. pásek	3. pásek	4. pásek (multiplikátor)	5. pásek (tolerance)
Zelený	5	5	5	10 ⁵	±0.5%
Modrý	6	6	6	10 ⁶	±0.25%
Fialový	7	7	7	10 ⁷	±0.1%
Šedý	8	8	8	10 ⁸	±0.01%
Bílý	9	9	9	10 ⁹	

V souladu s normou DIN EN 60062:2017

Oranžová – bílá – černá – hnědá – hnědá: rezistor s odporem 3 900 Ω, tolerance 1 %,

Červená – červená – černá – hnědá – hnědá: rezistor s odporem 2 200 Ω, tolerance 1 %.

2 Wiring



FPP-5000 Power supply, stránka 11

FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6), stránka 13

DIBT, stránka 15

Functional Modules, stránka 42

BCM-000-B, stránka 43

CZM 0004 A, stránka 45

ENO 0000 A/B, stránka 61

LSN 0300 A, stránka 68

NZM 0002 A, stránka 106

RMH 0002 A, stránka 119

IOS 0020 A, stránka 120

FPE-5000-UGM, stránka 122

Interface Modules, stránka 124

FLM-420-4/CON-D/S, stránka 125

FLM-420-I8R1-S, stránka 158

FLM-420-NAC-D/S, stránka 160

FLM-420-RHV, stránka 172

FLM-420-RLE-S, stránka 184

FLM-420-RLV1-E, stránka 185

FLM-420-RLV8-S, stránka 186

FMF-ADP-FBF/FMF-ADP-TTY, stránka 187

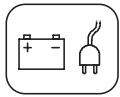
EOL, stránka 188

CZM 0004 A, stránka 189

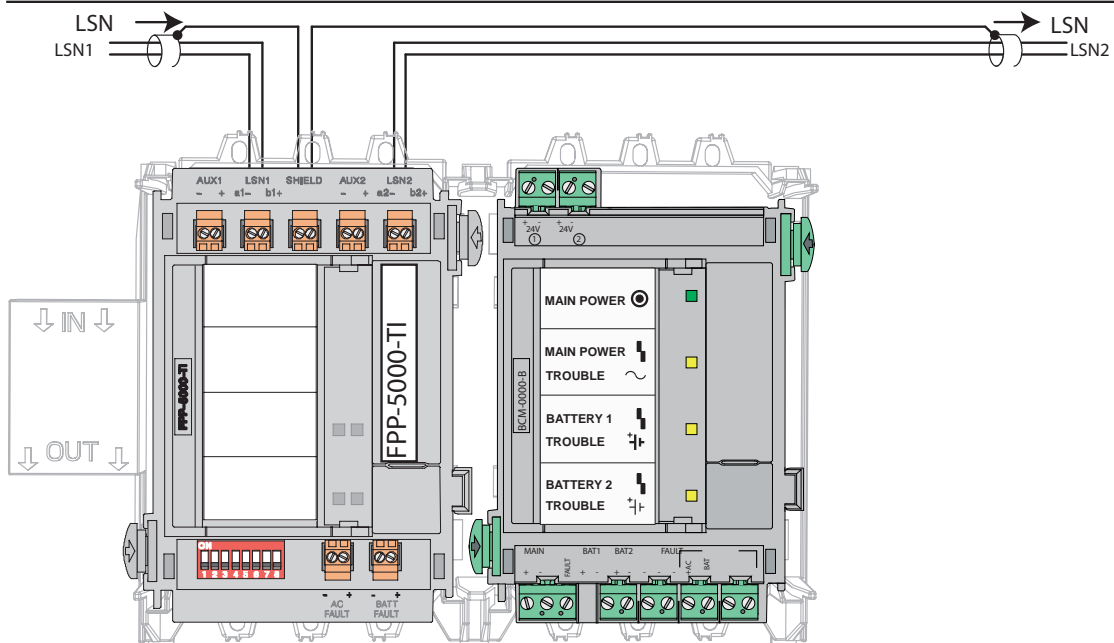
LSN 0300 A, stránka 201

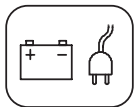
FLM-420/4-CON-S/D, stránka 246

2.1 FPP-5000 Power supply



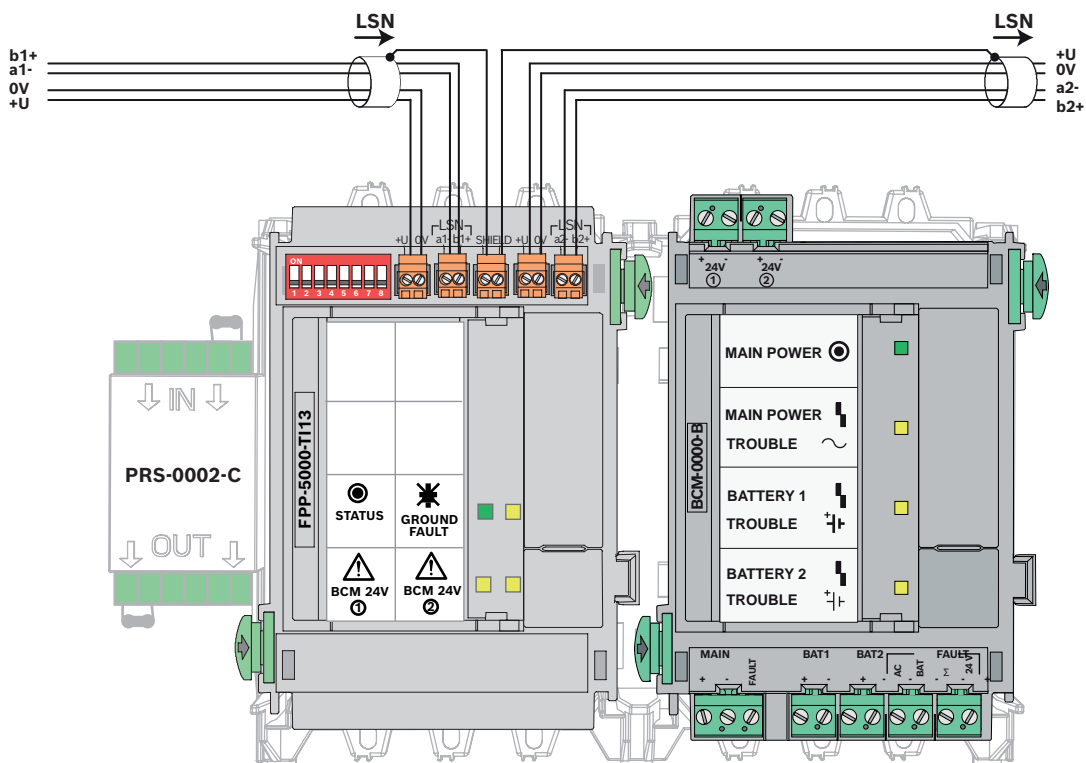
FPP-5000-TI



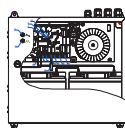
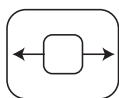


FPP-5000-TI13

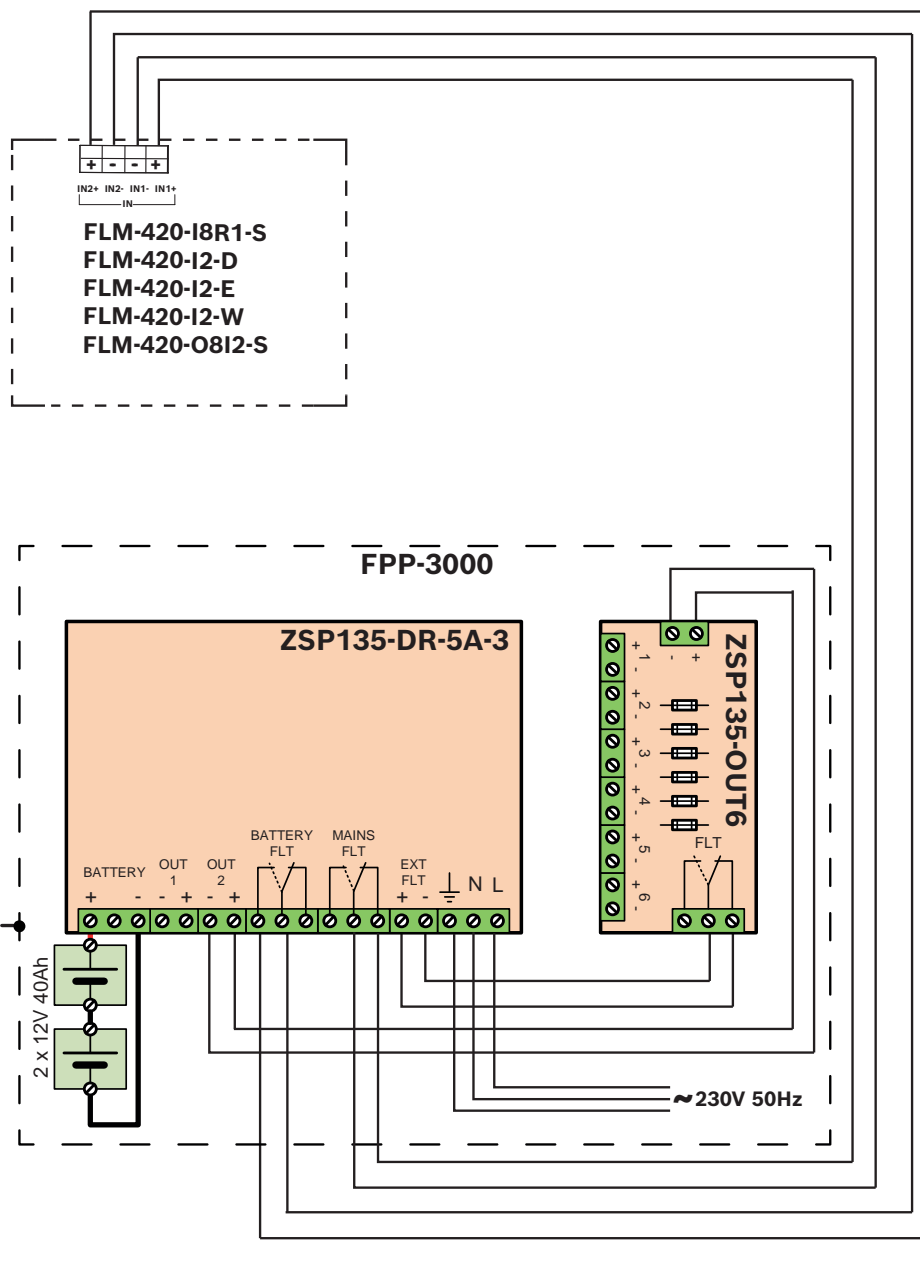
ELS

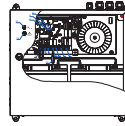
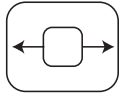


2.2 FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6)

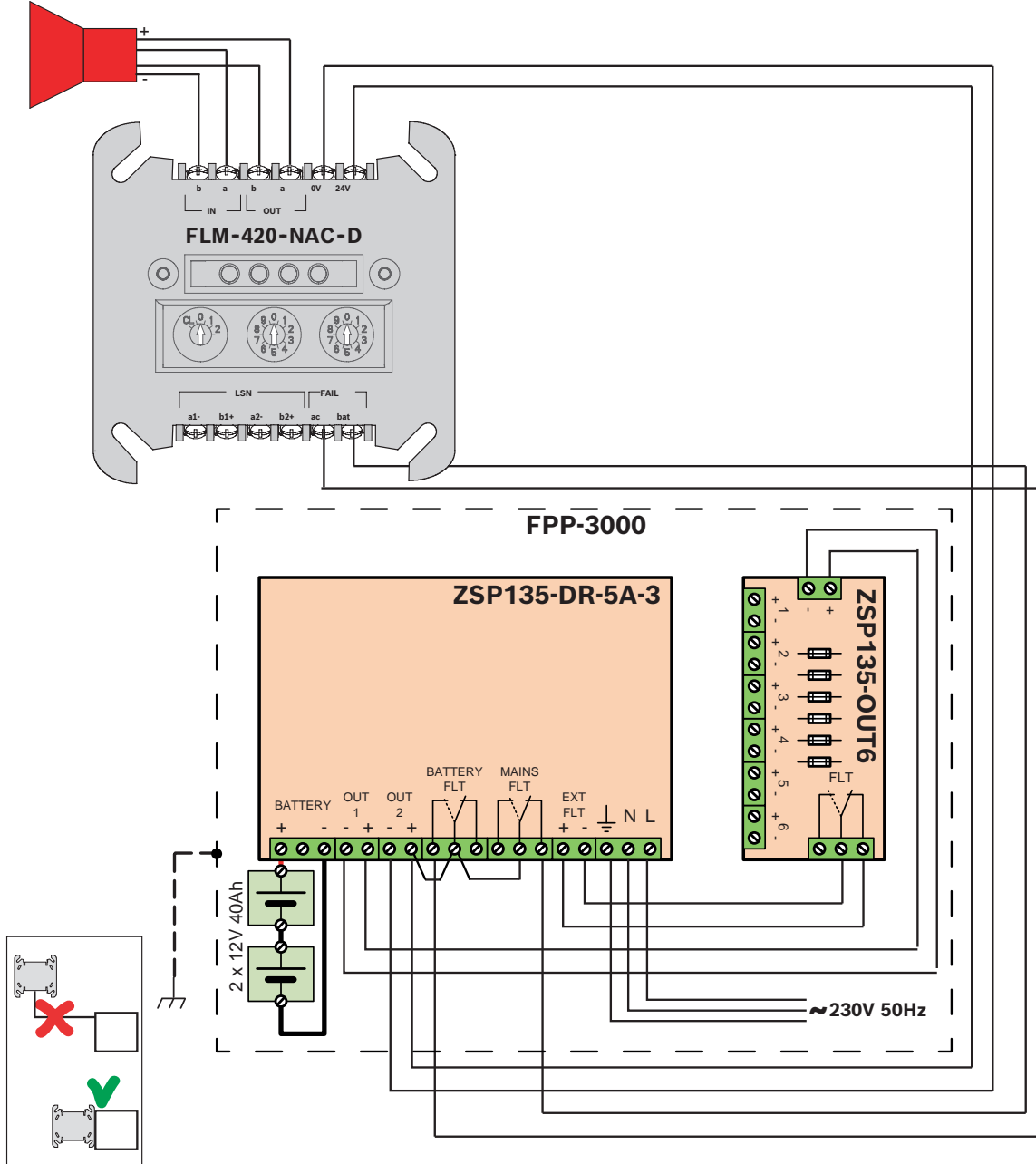


ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000

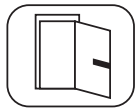




ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000

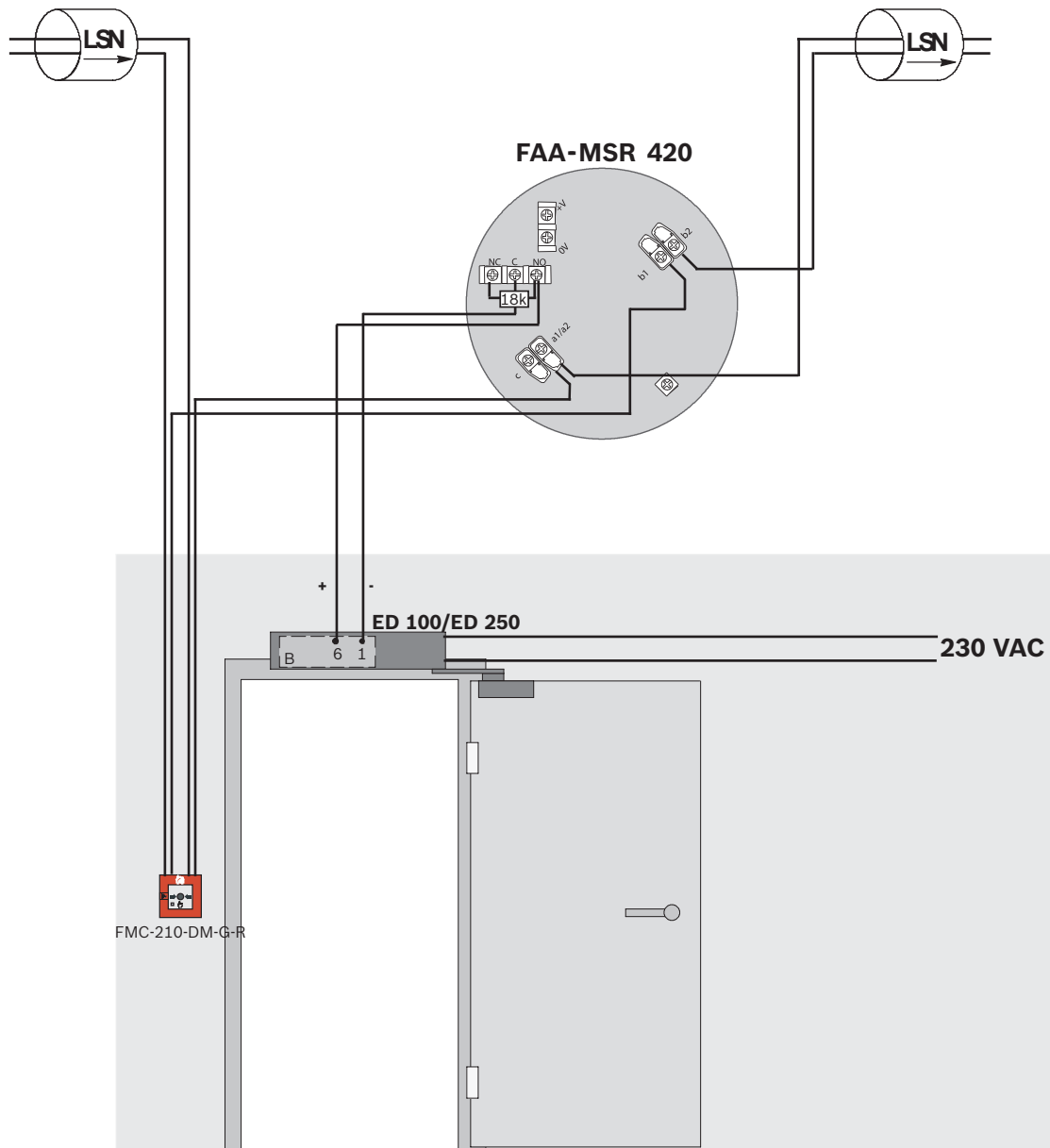


2.3 DIBT



**ED 100
ED 250
(+Upgrade Card B)**

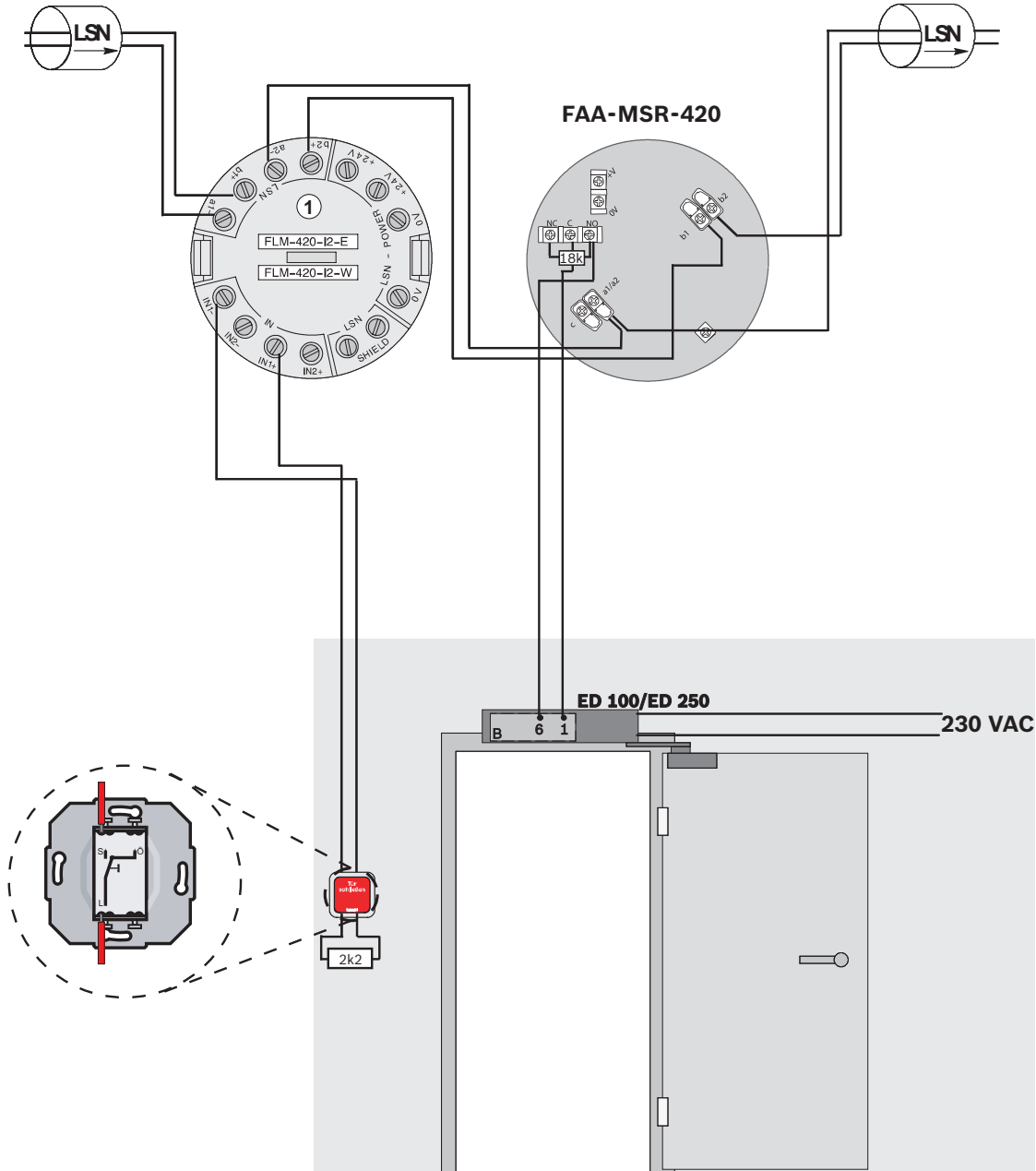
DIBT

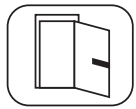




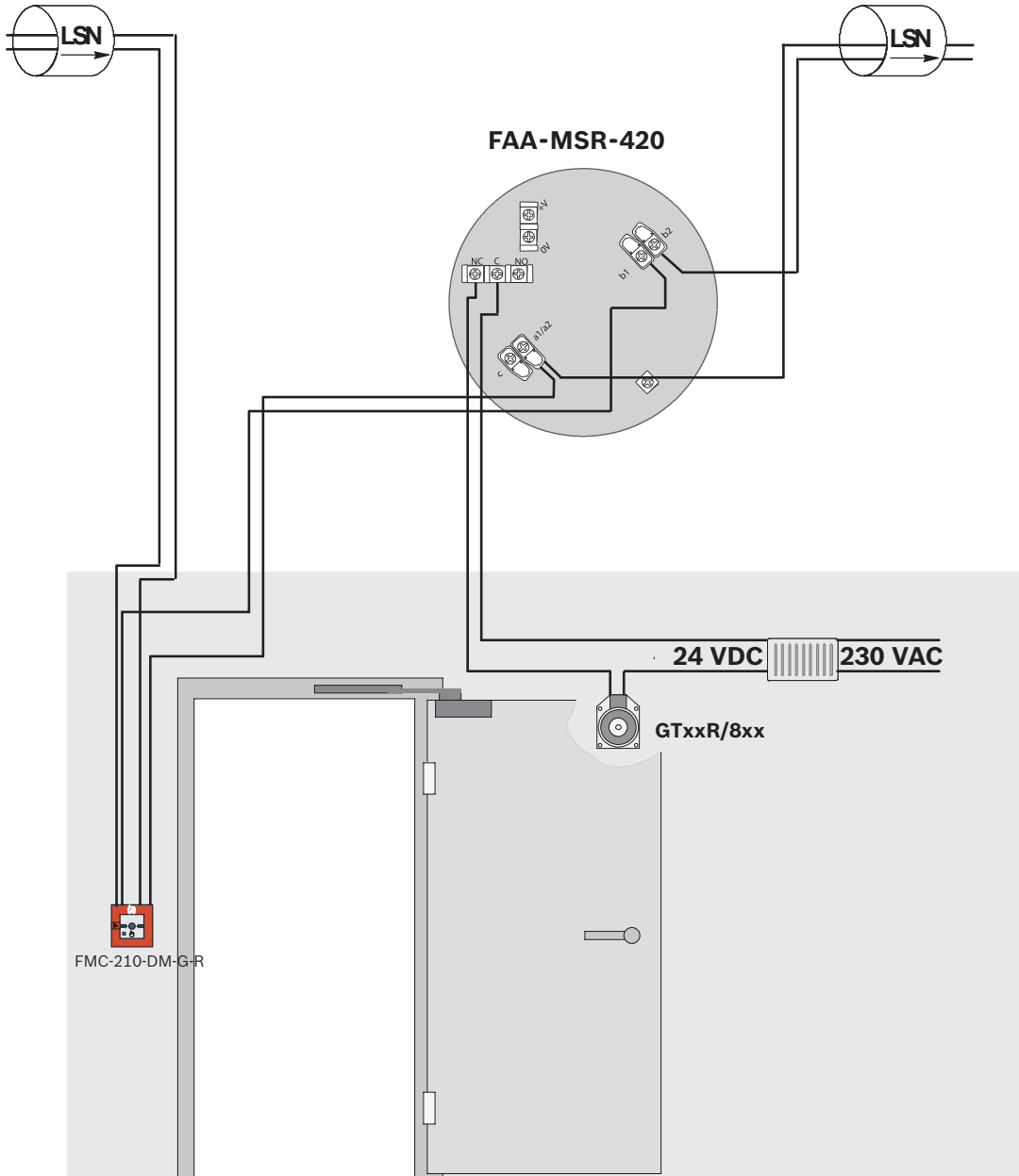
**ED 100
ED 250
(+Upgrade Card B)**

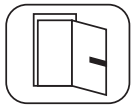
DIBT



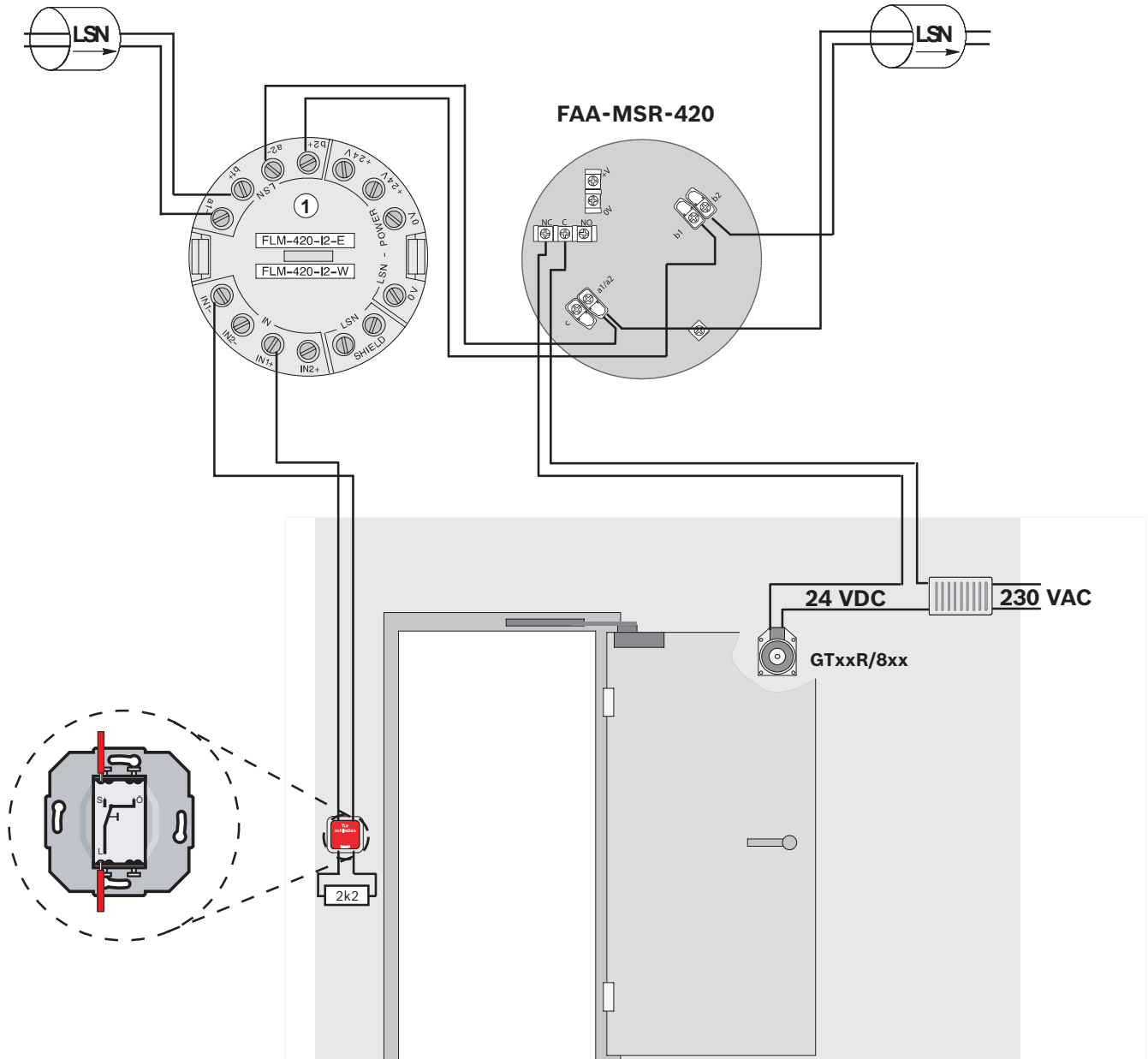


DIBT





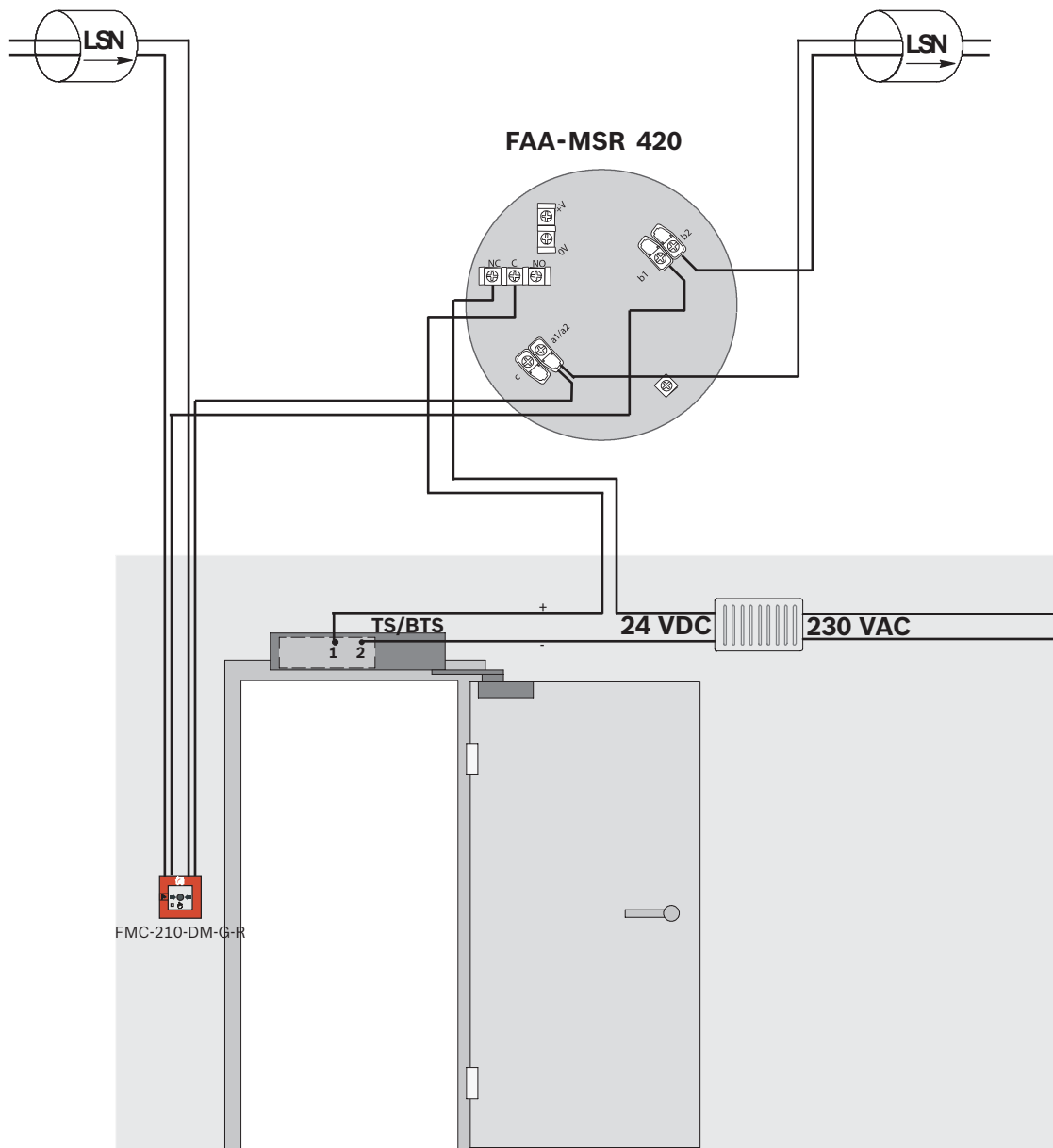
DIBT





TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

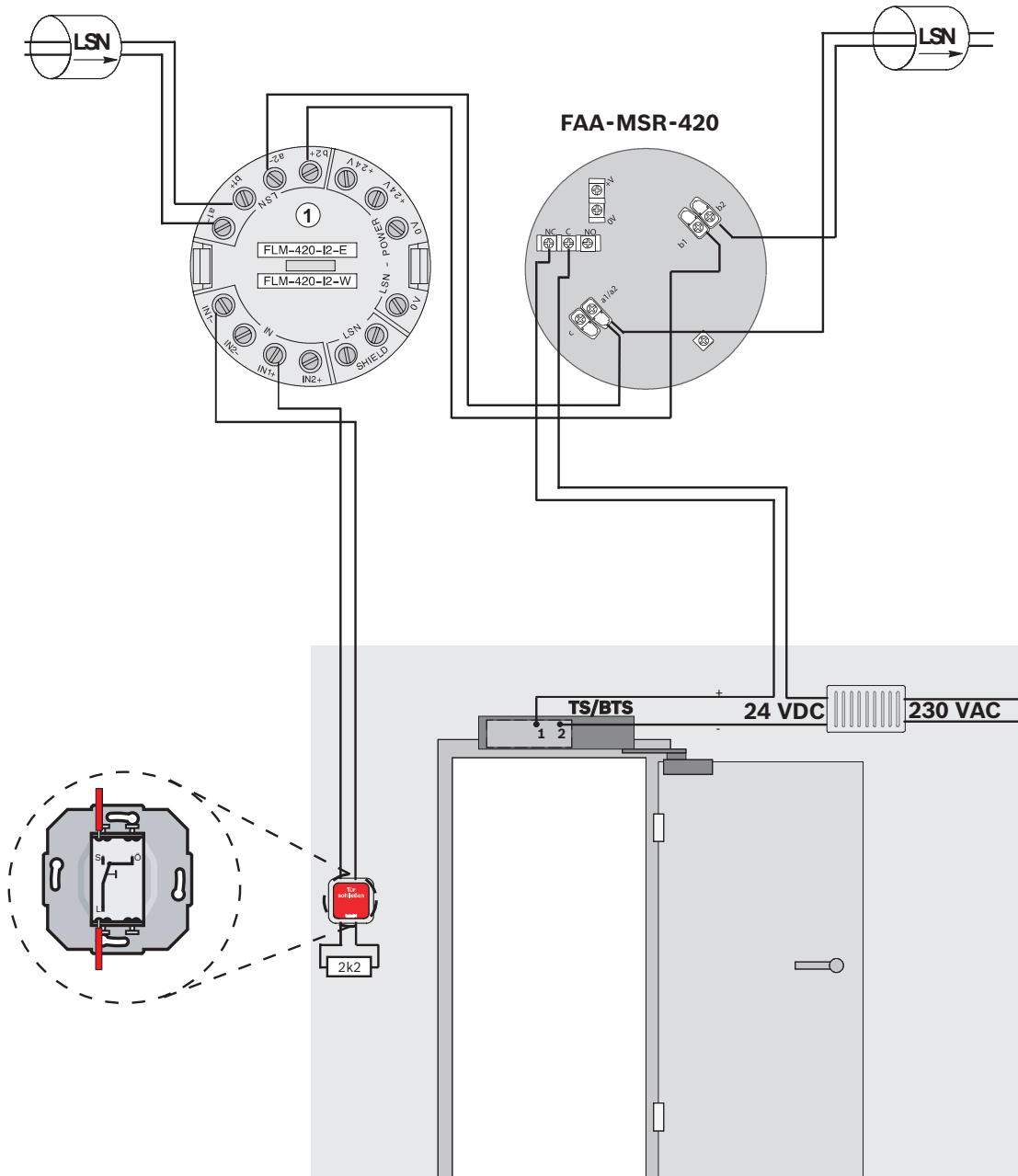
DIBT

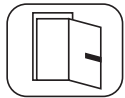




TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

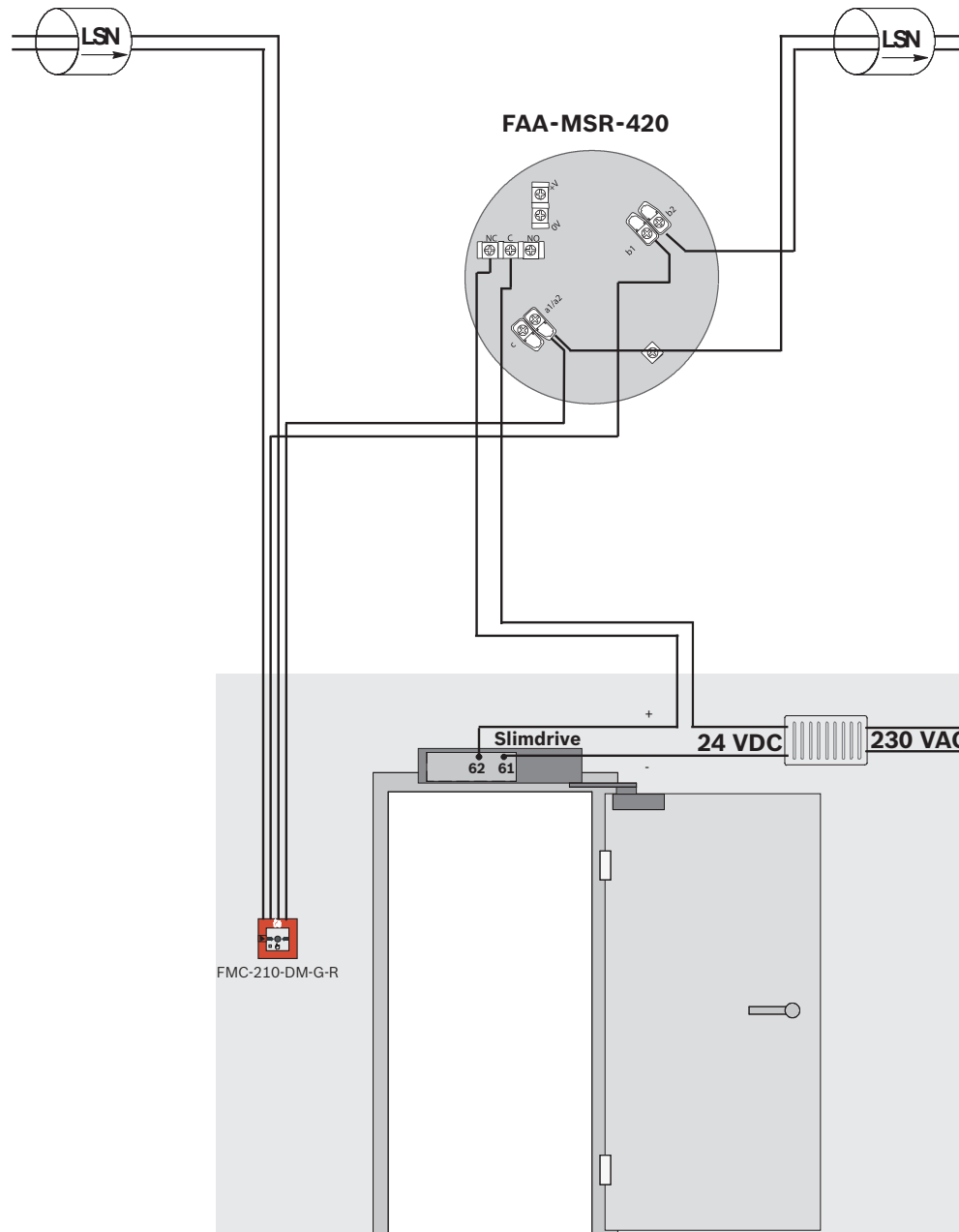
DIBT





Slimdrive EMD-F/EMD F-IS

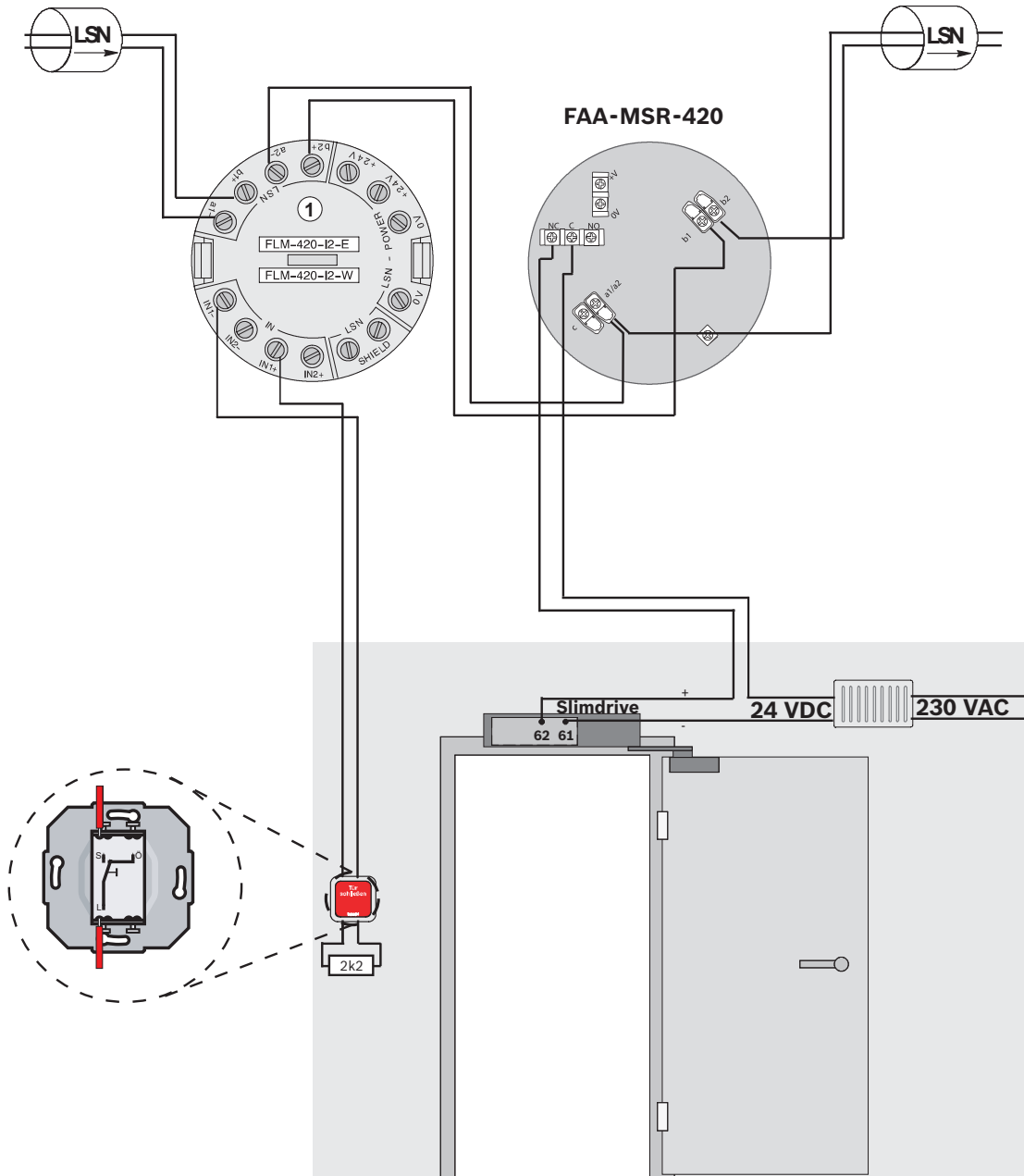
DIBT

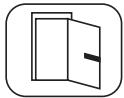




Slimdrive EMD-F/EMD F-IS

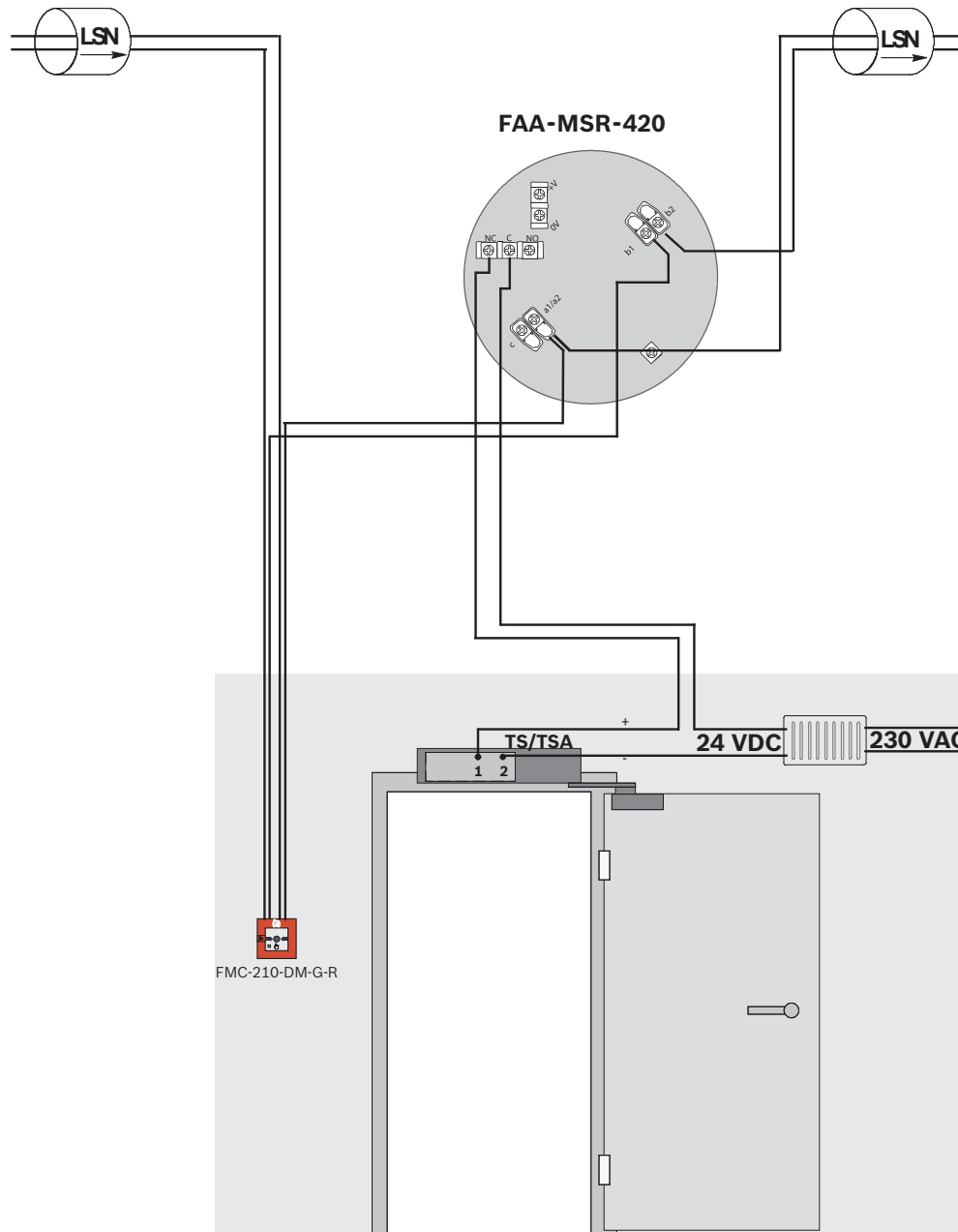
DIBT





TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

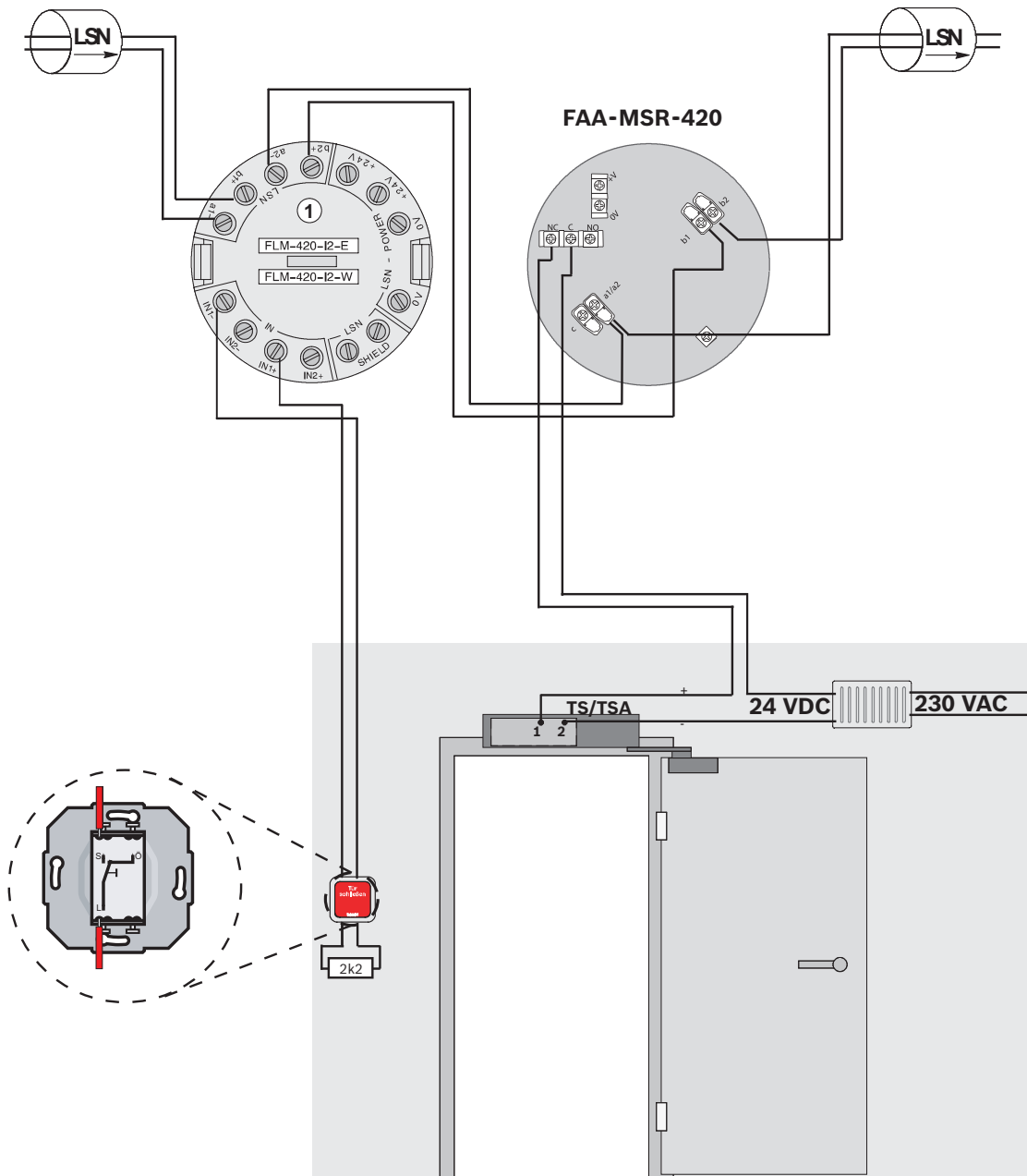
DIBT

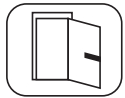




TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

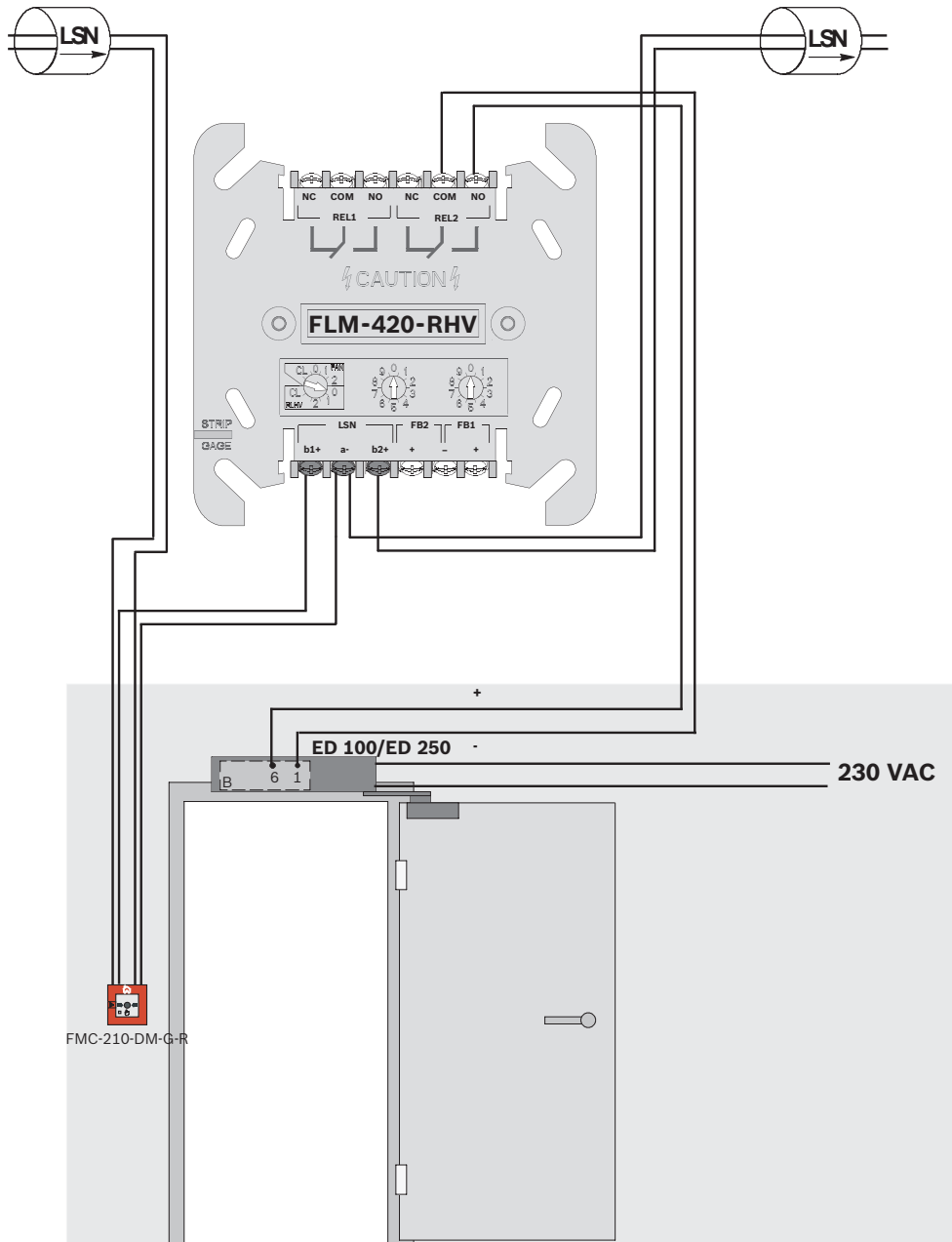
DIBT





**ED 100
ED 250
(+Upgrade Card B**

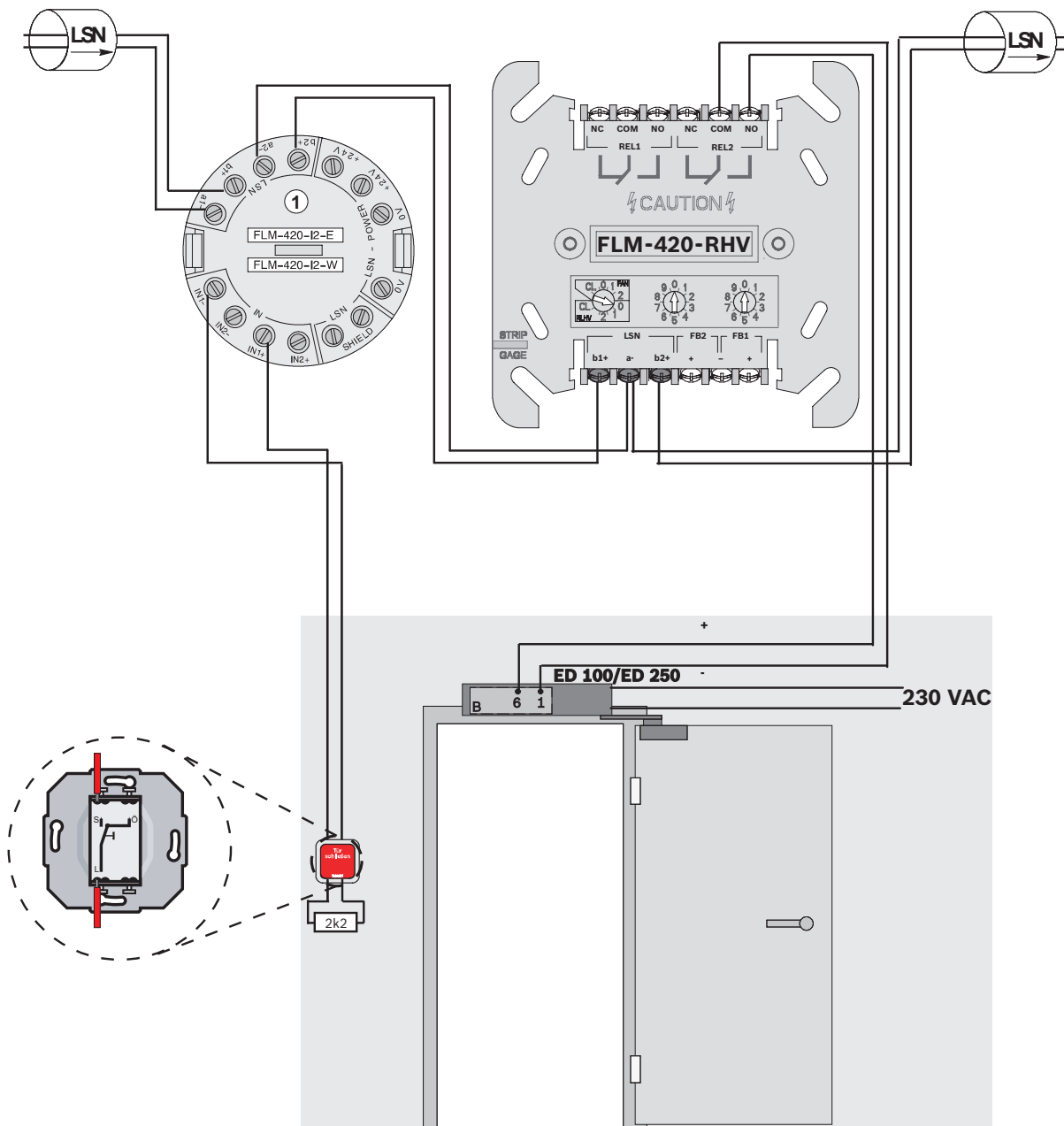
DIBT

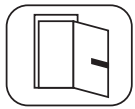




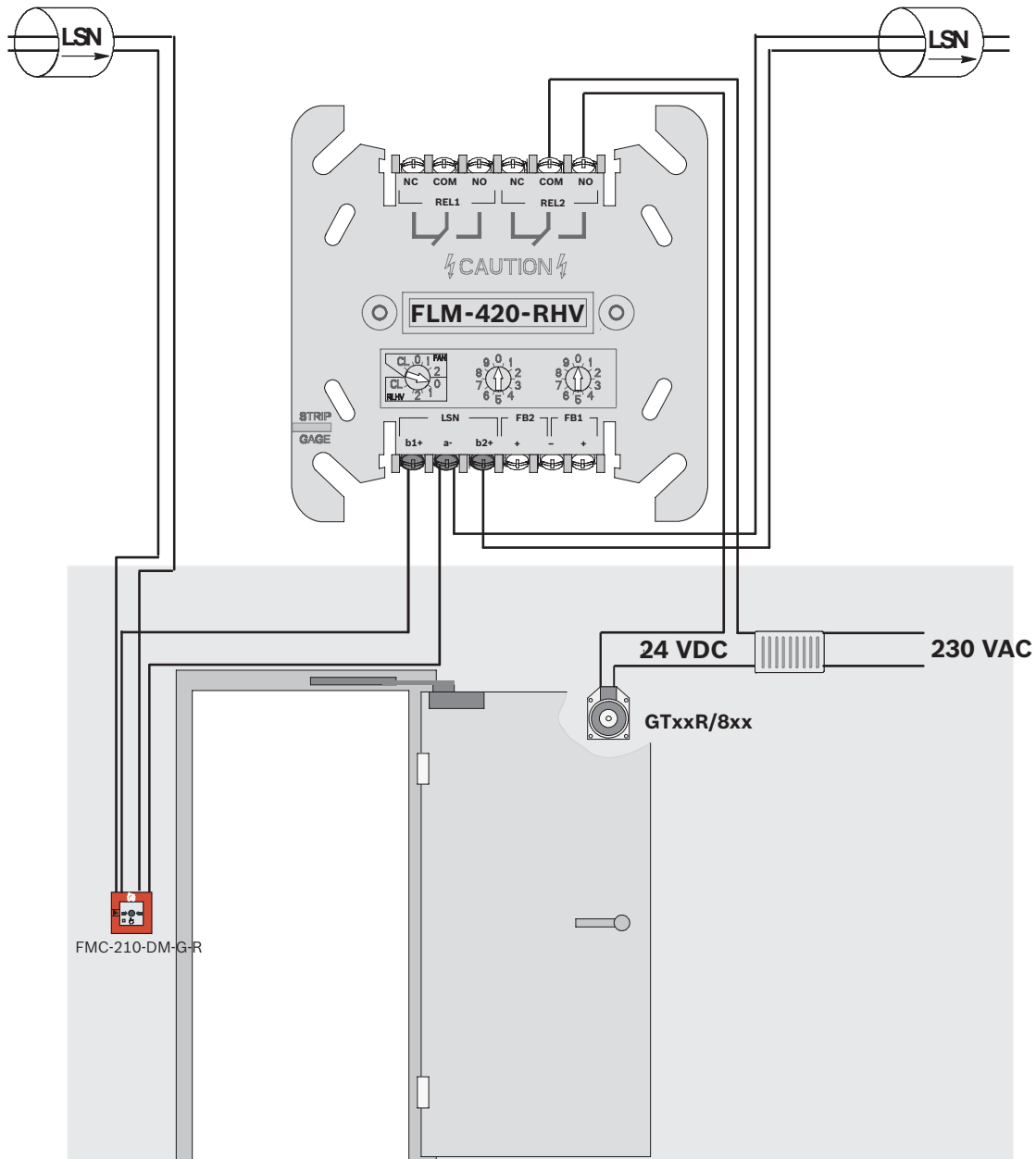
**ED 100
ED 250
(+Upgrade Card B)**

DIBT





DIBT

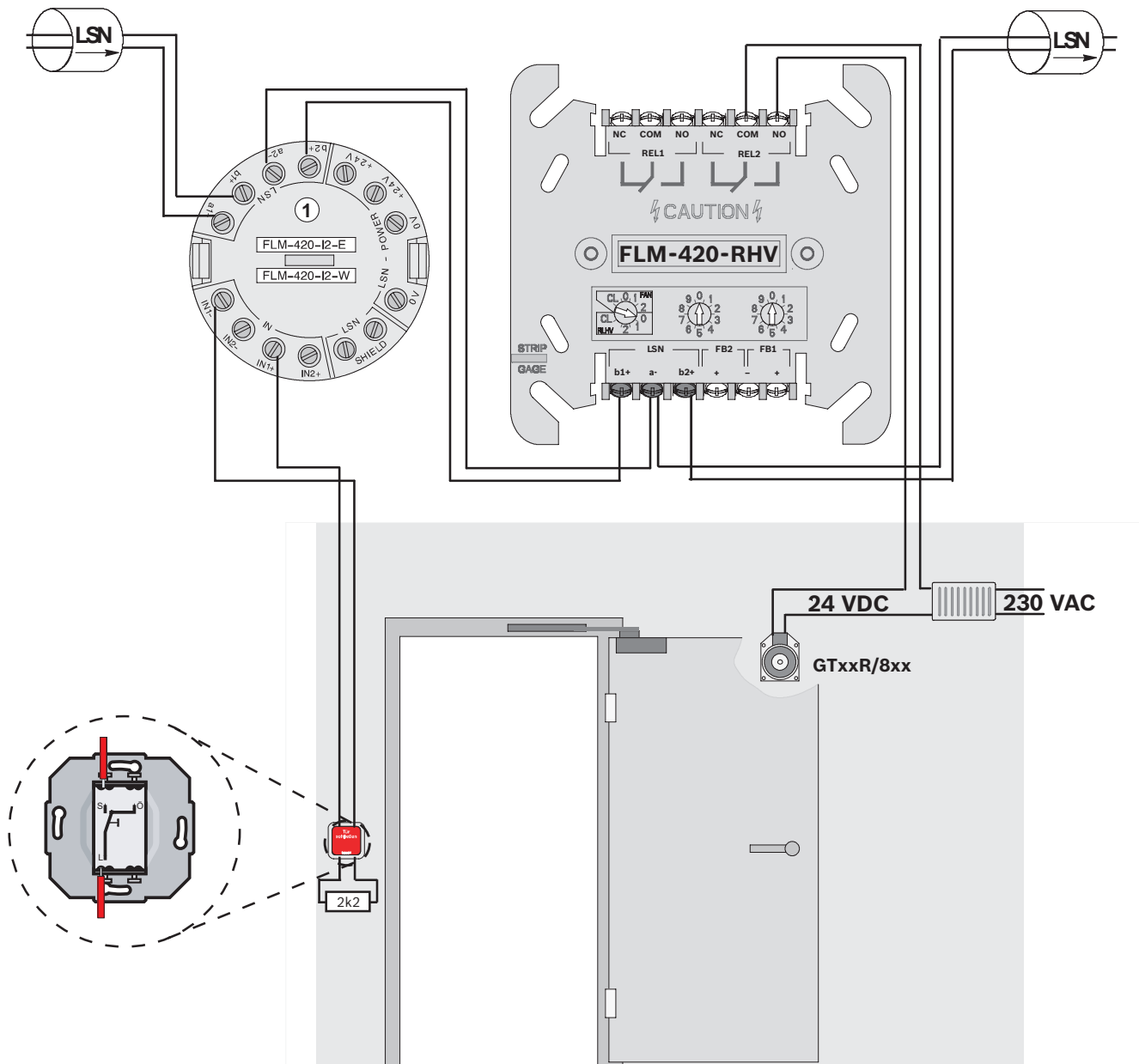


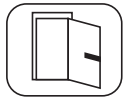


GT xx R

8 xx

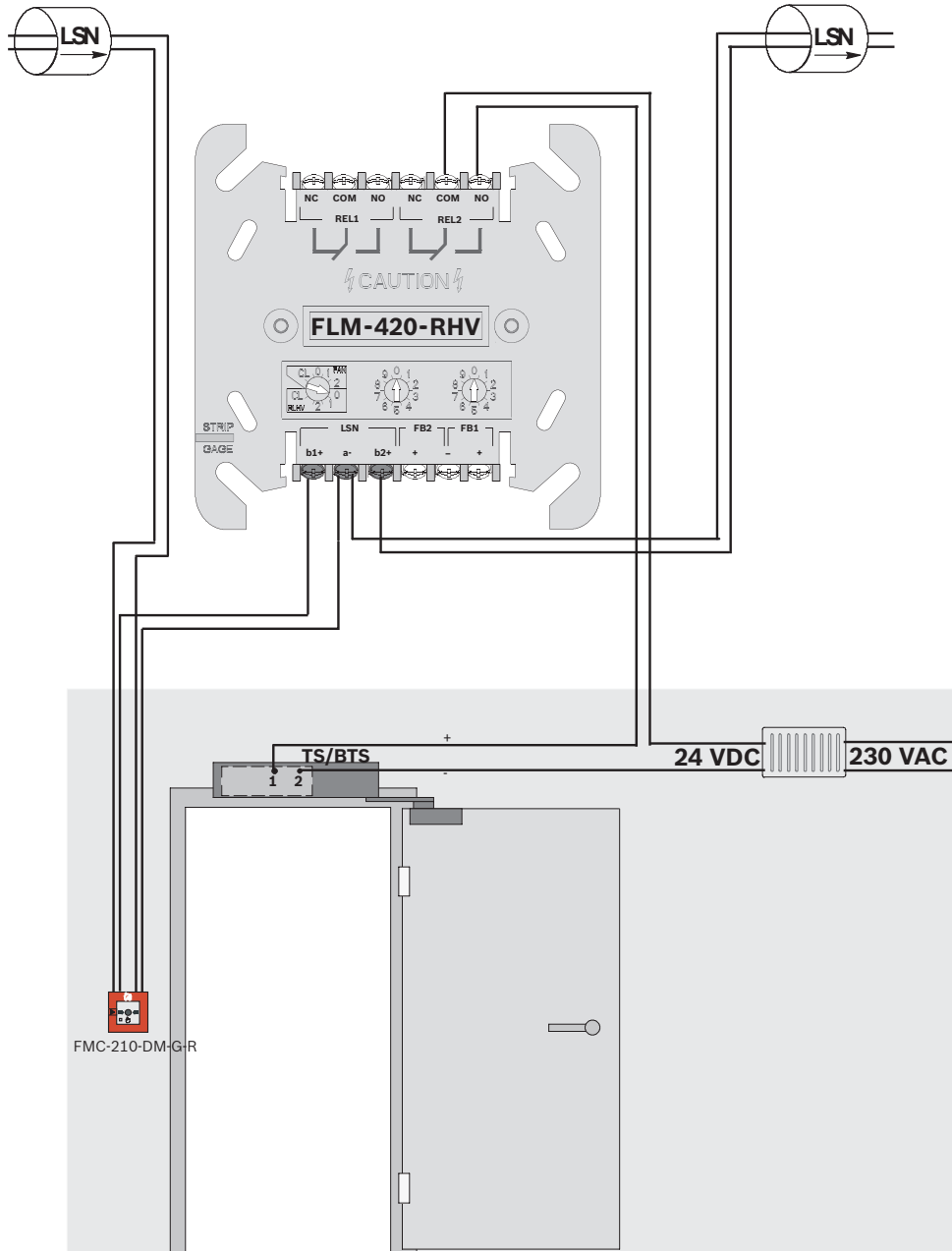
DIBT





TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

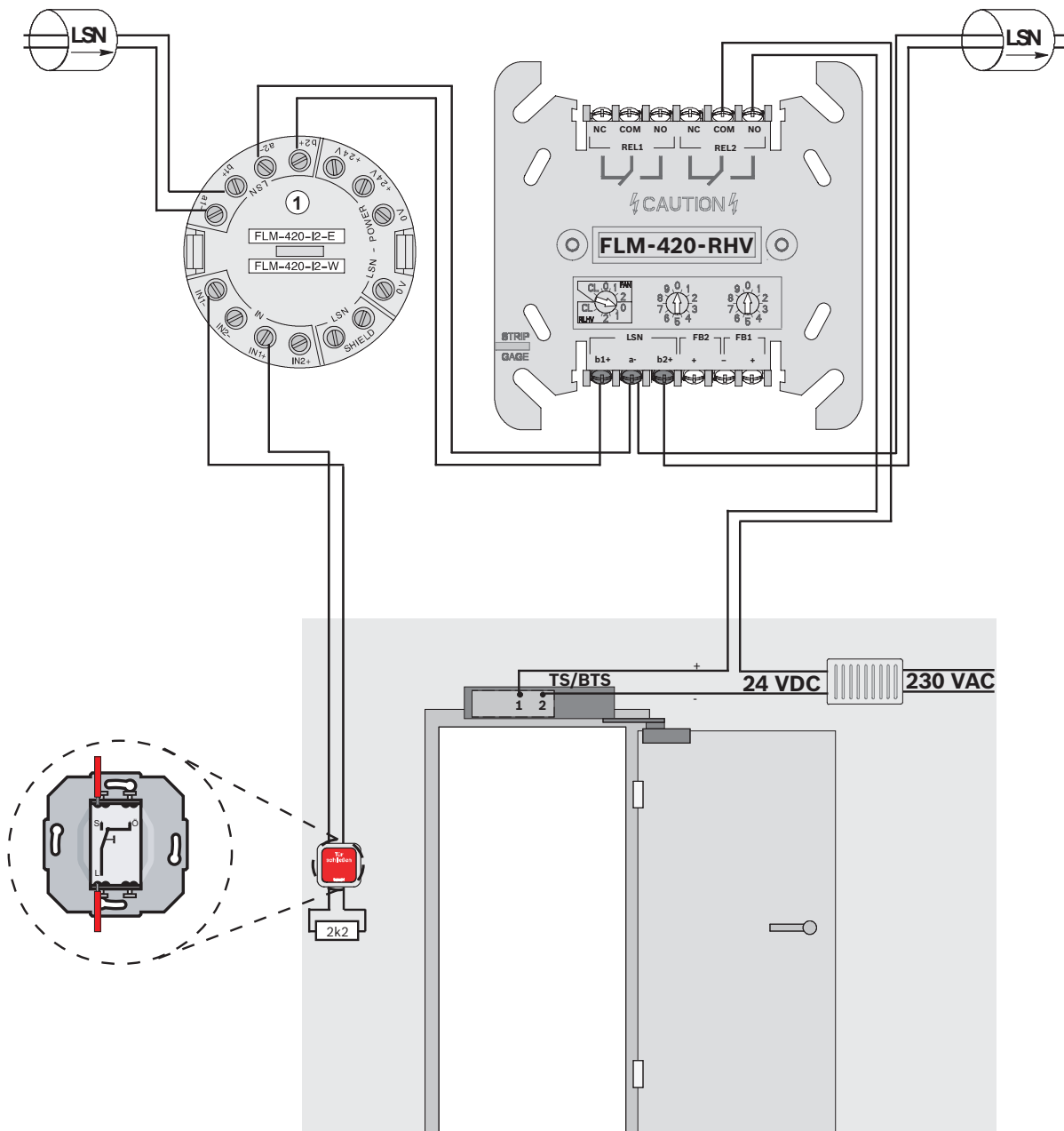
DIBT





TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

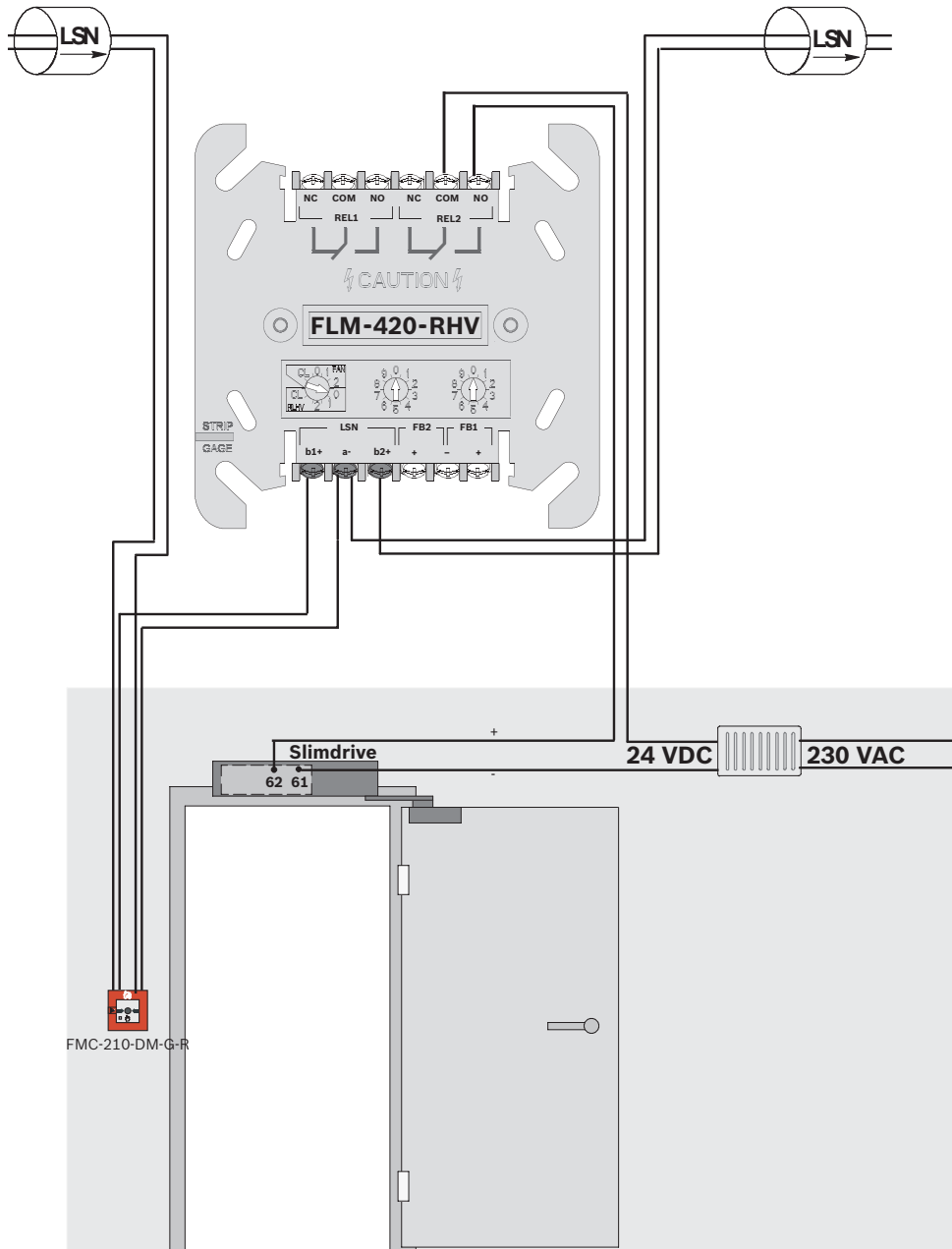
DIBT





Slimdrive EMD-F/EMD F-IS

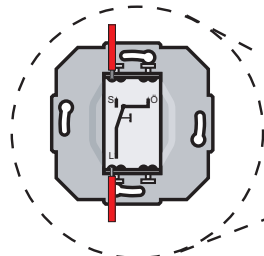
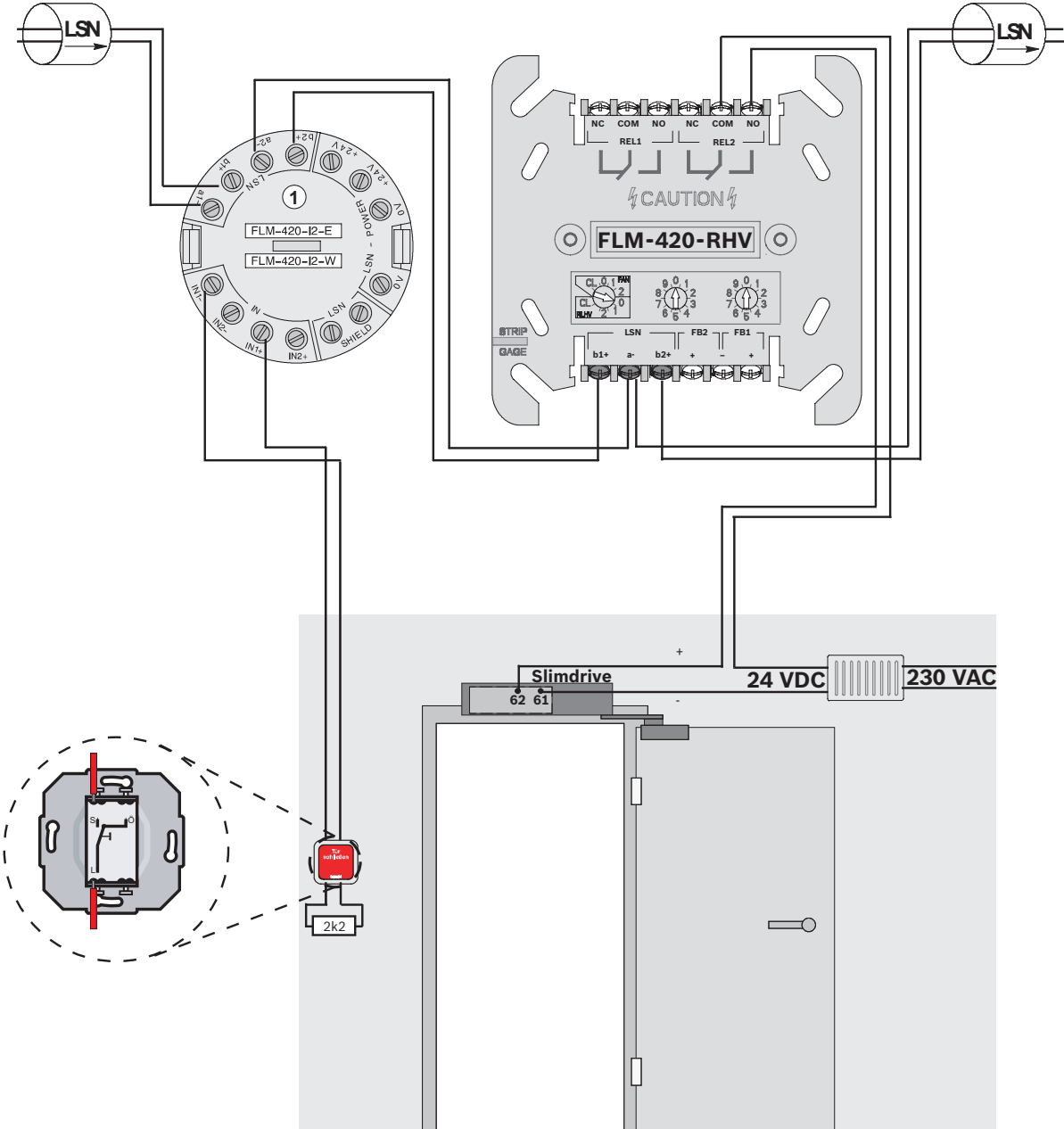
DIBT

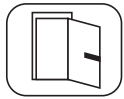




Slimdrive EMD-F/EMD F-IS

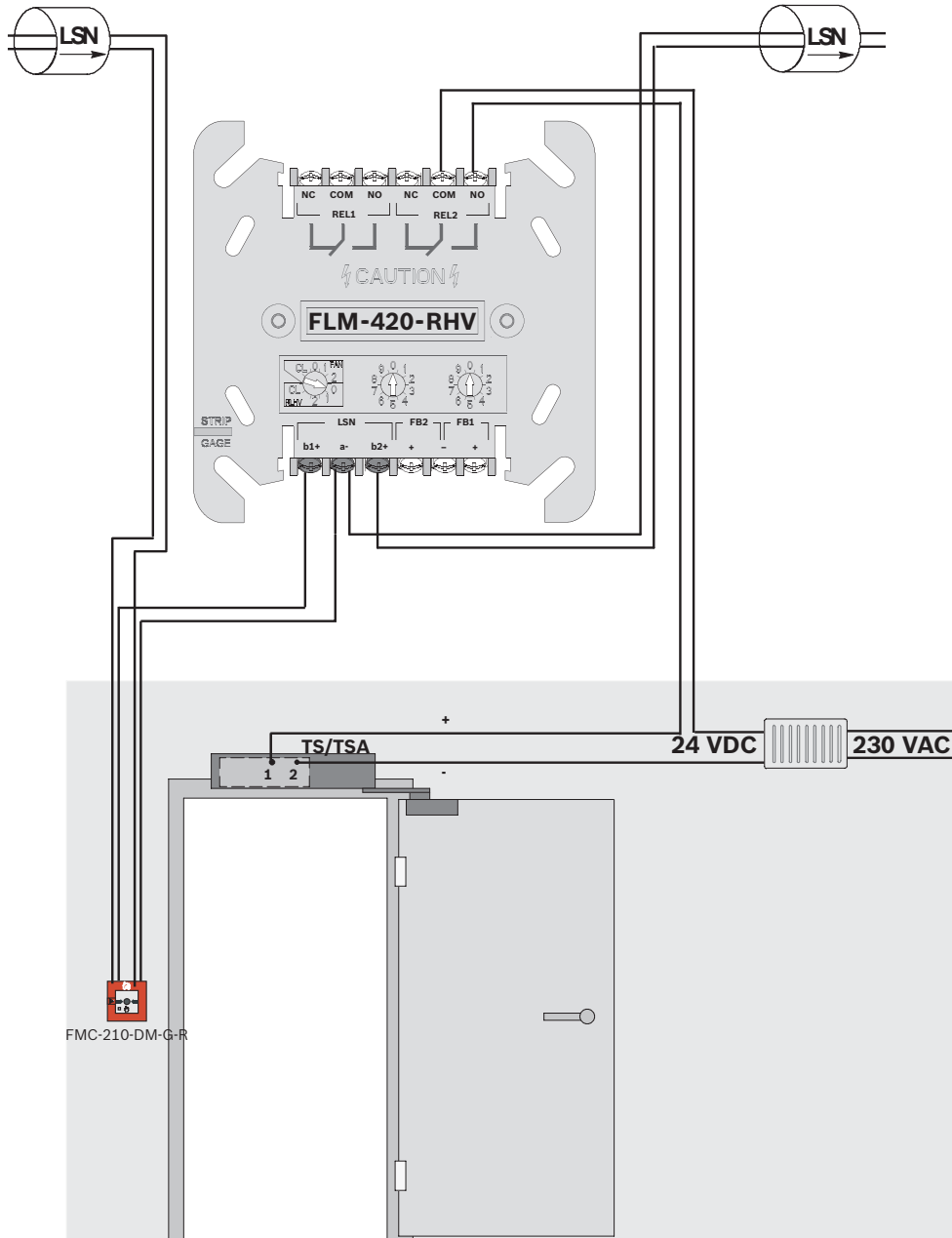
DIBT





TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

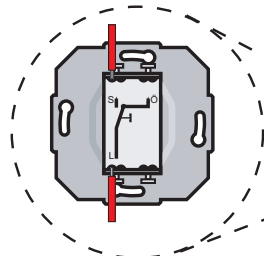
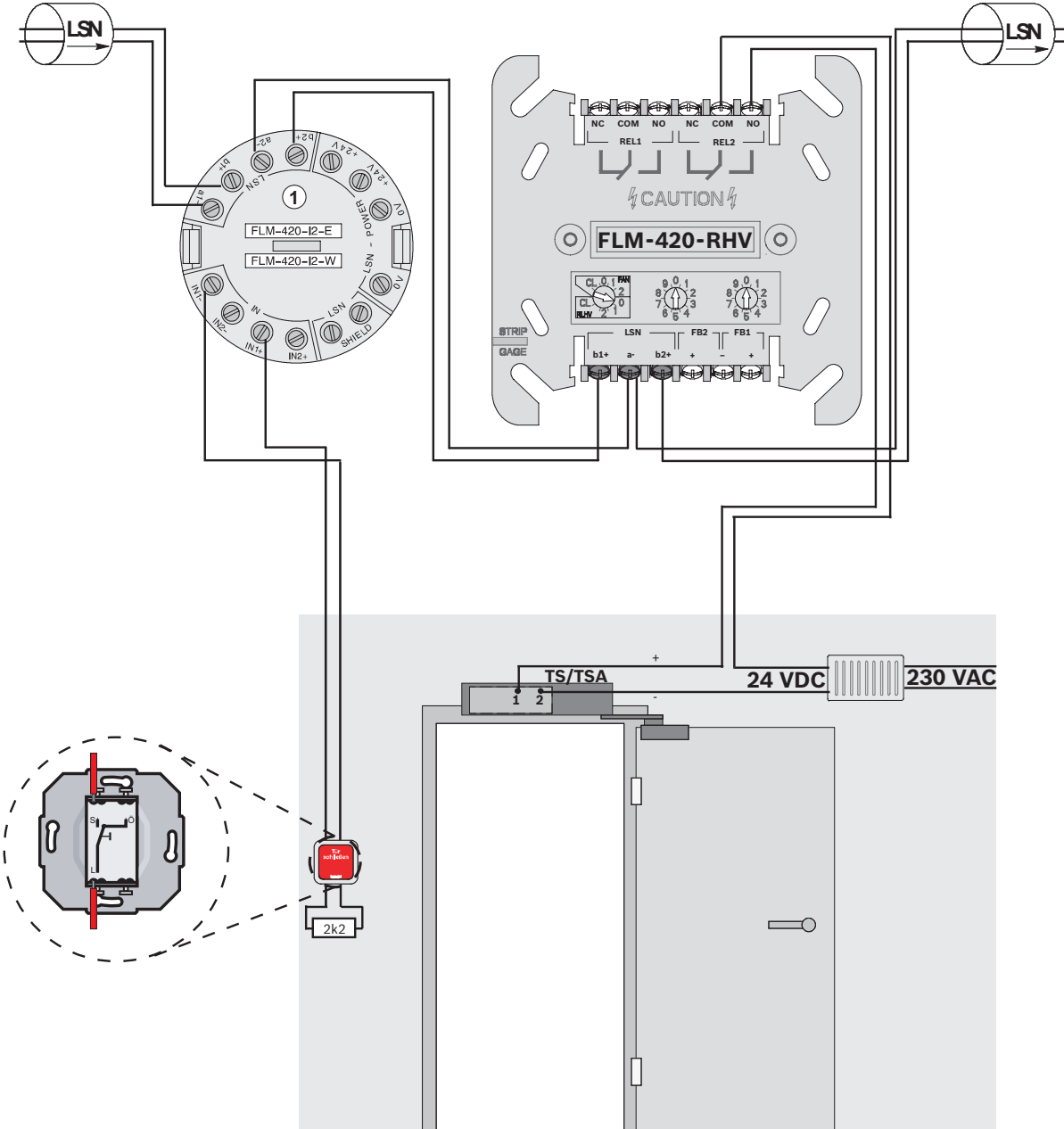
DIBT

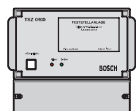




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

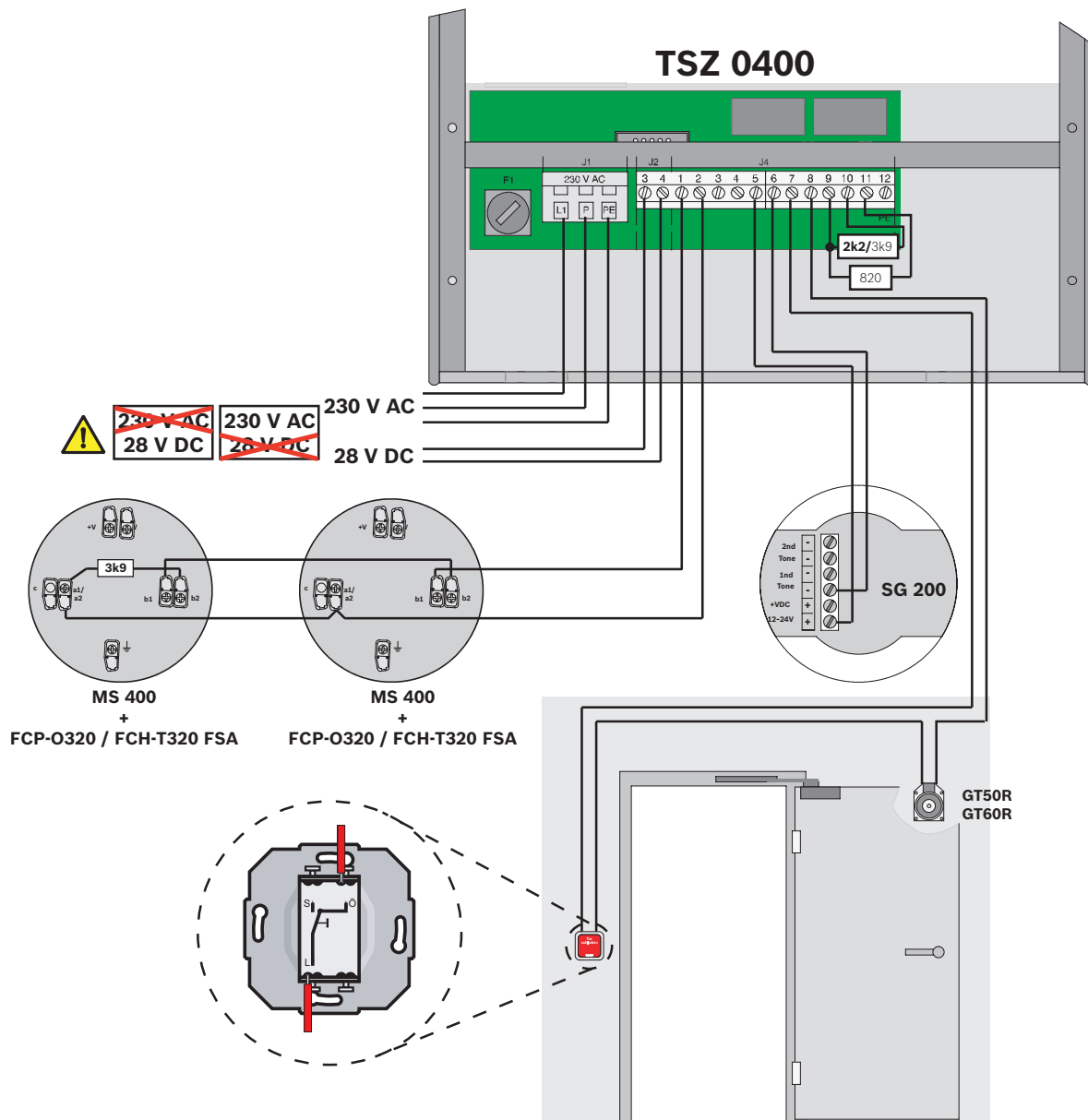
DIBT

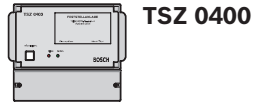




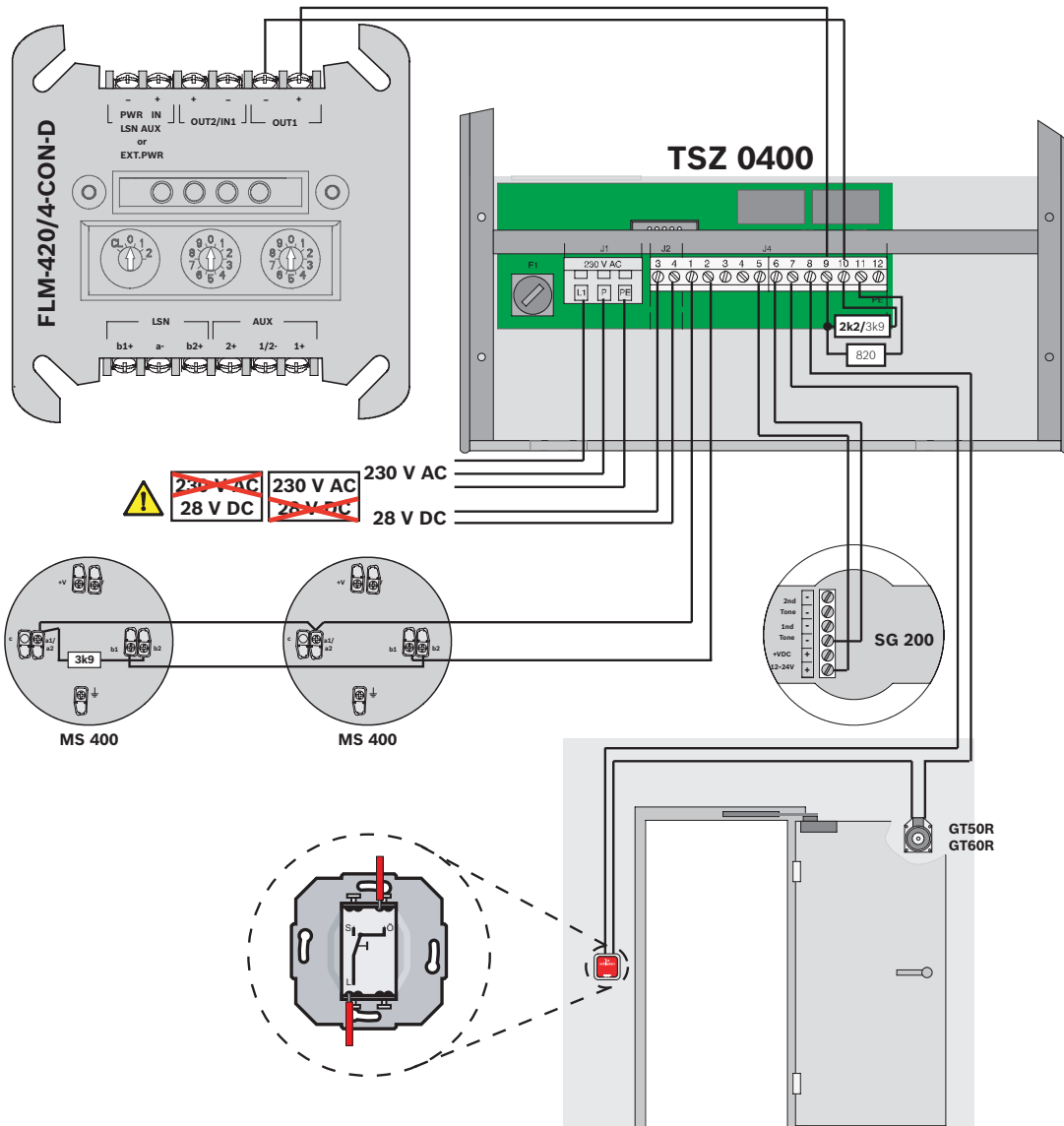
TSZ 0400

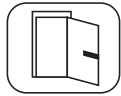
DIBT



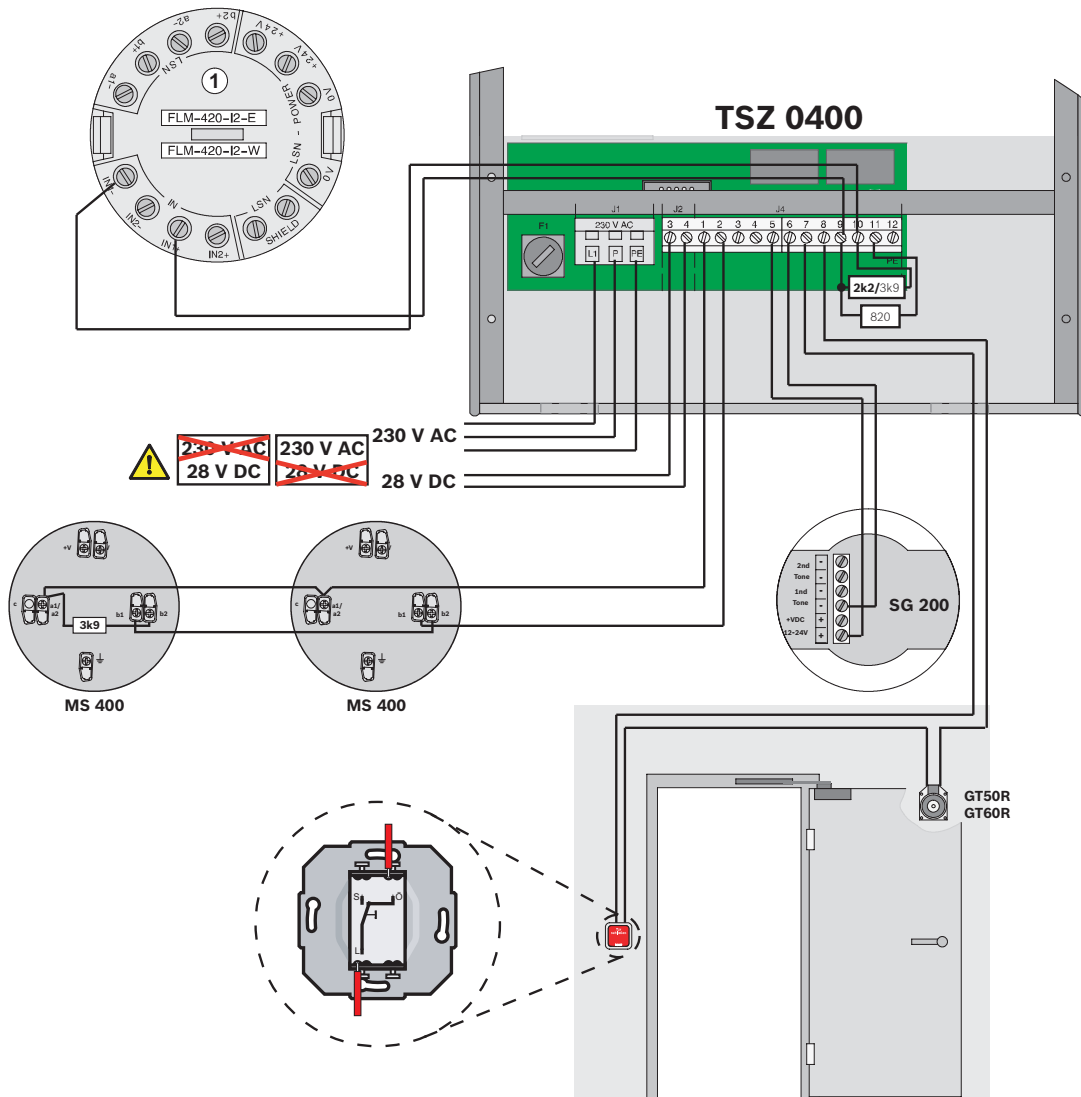


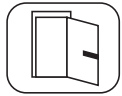
DIBT



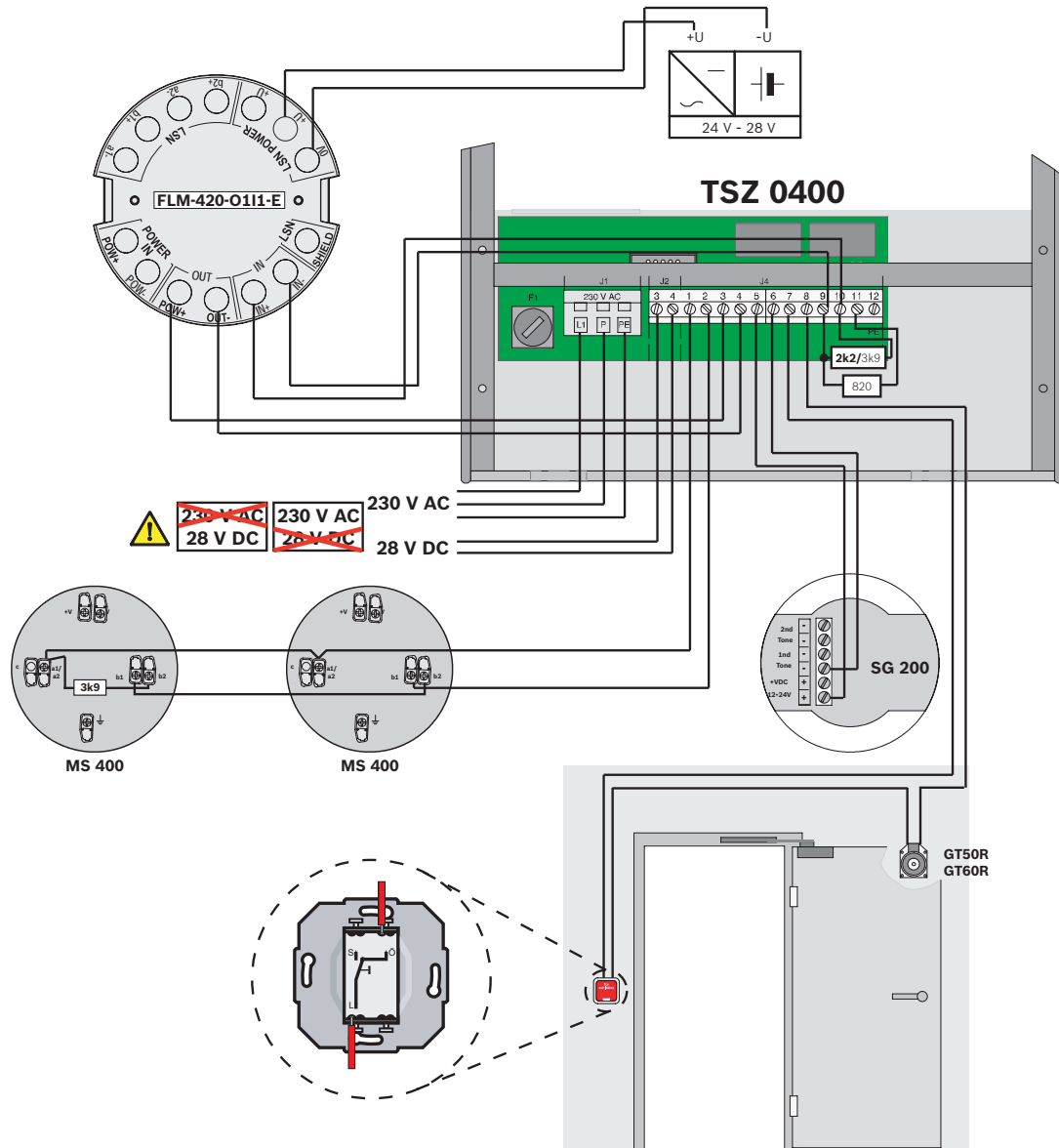


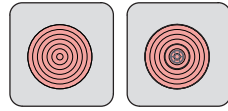
DIBT



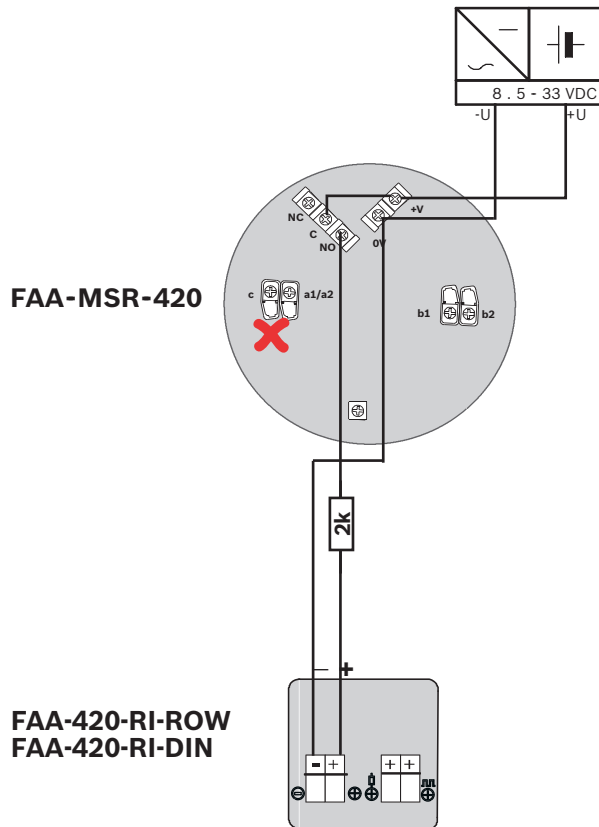
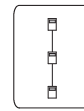


DIBT



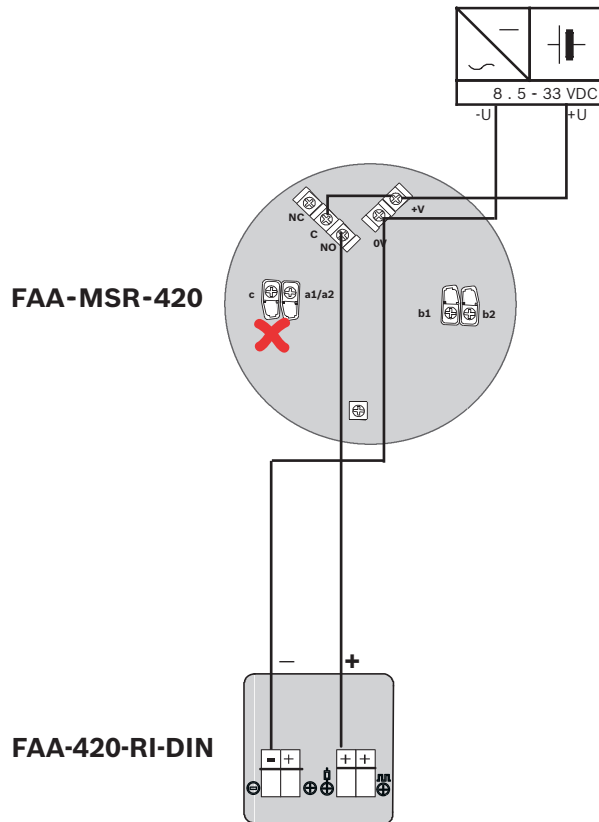
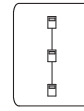


FAA-420-RI-ROW
FAA-420-RI-DIN



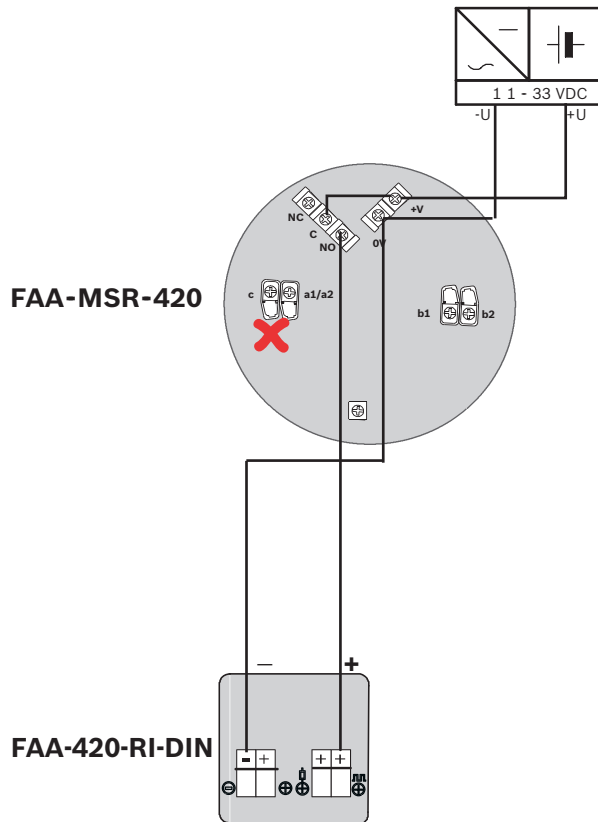
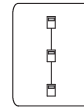


FAA-420-RI-DIN





FAA-420-RI-DIN



2.4

Functional Modules



BCM-000-B, stránka 43

CZM 0004 A, stránka 45

ENO 0000 A/B, stránka 61

LSN 0300 A, stránka 68

NZM 0002 A, stránka 106

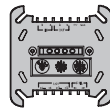
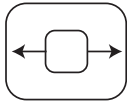
RMH 0002 A, stránka 119

IOS 0020 A, stránka 120

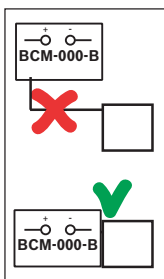
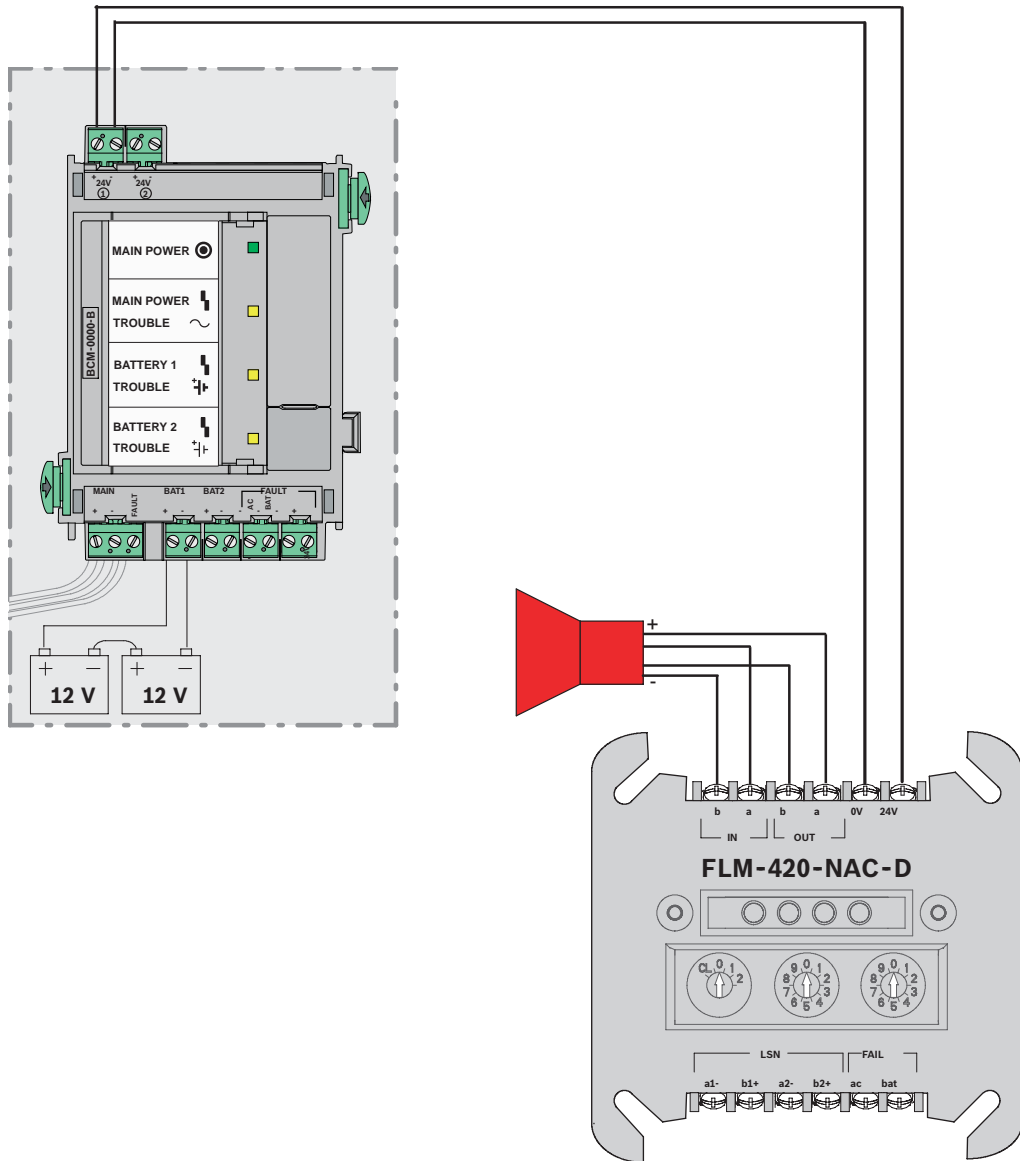
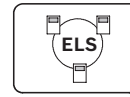
FPE-5000-UGM, stránka 122

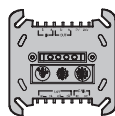
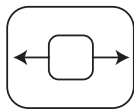
2.4.1

BCM-000-B

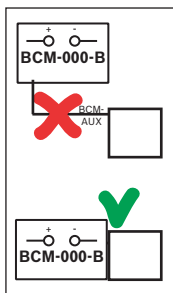
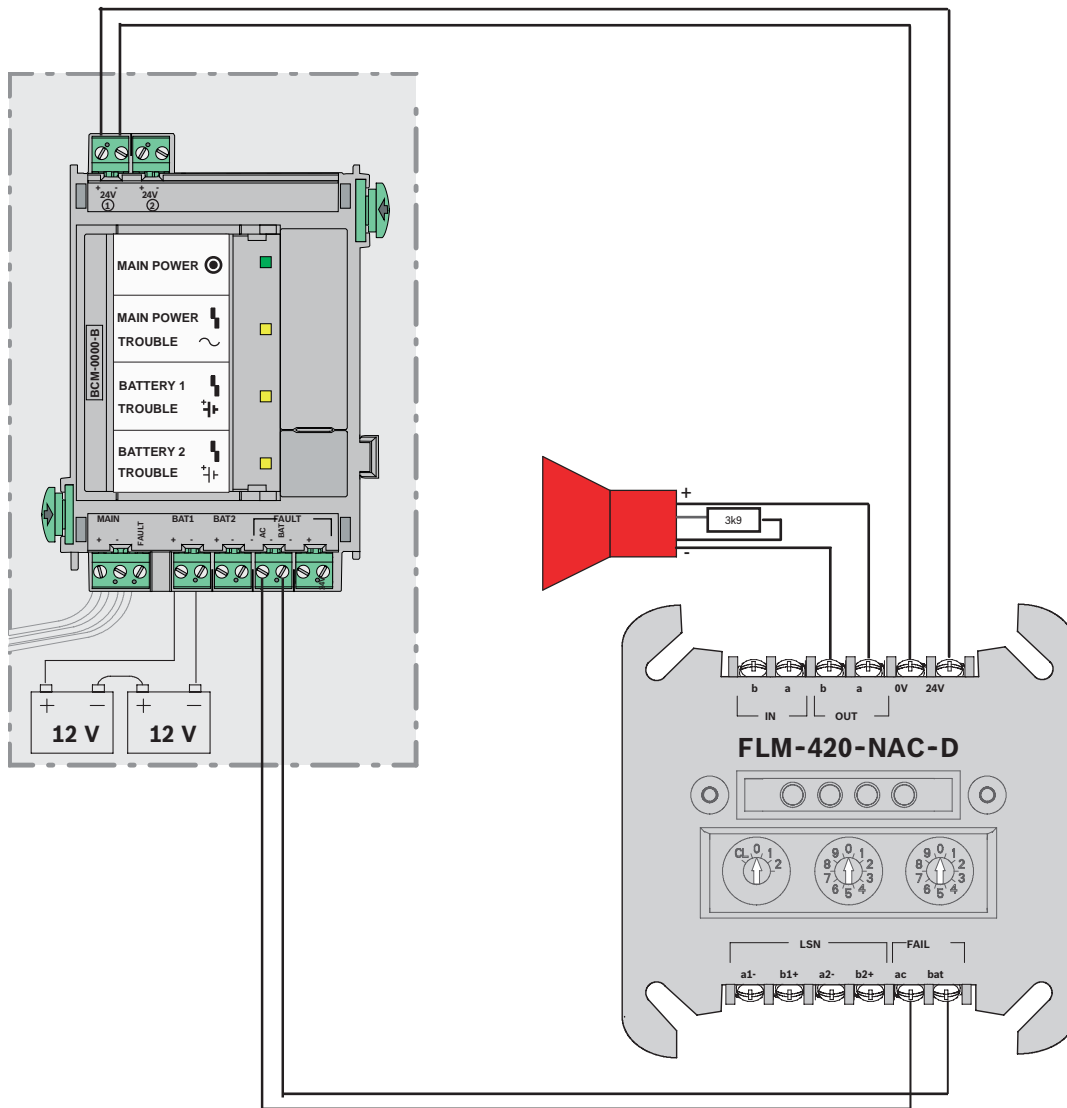
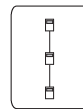


FLM-420-NAC-D





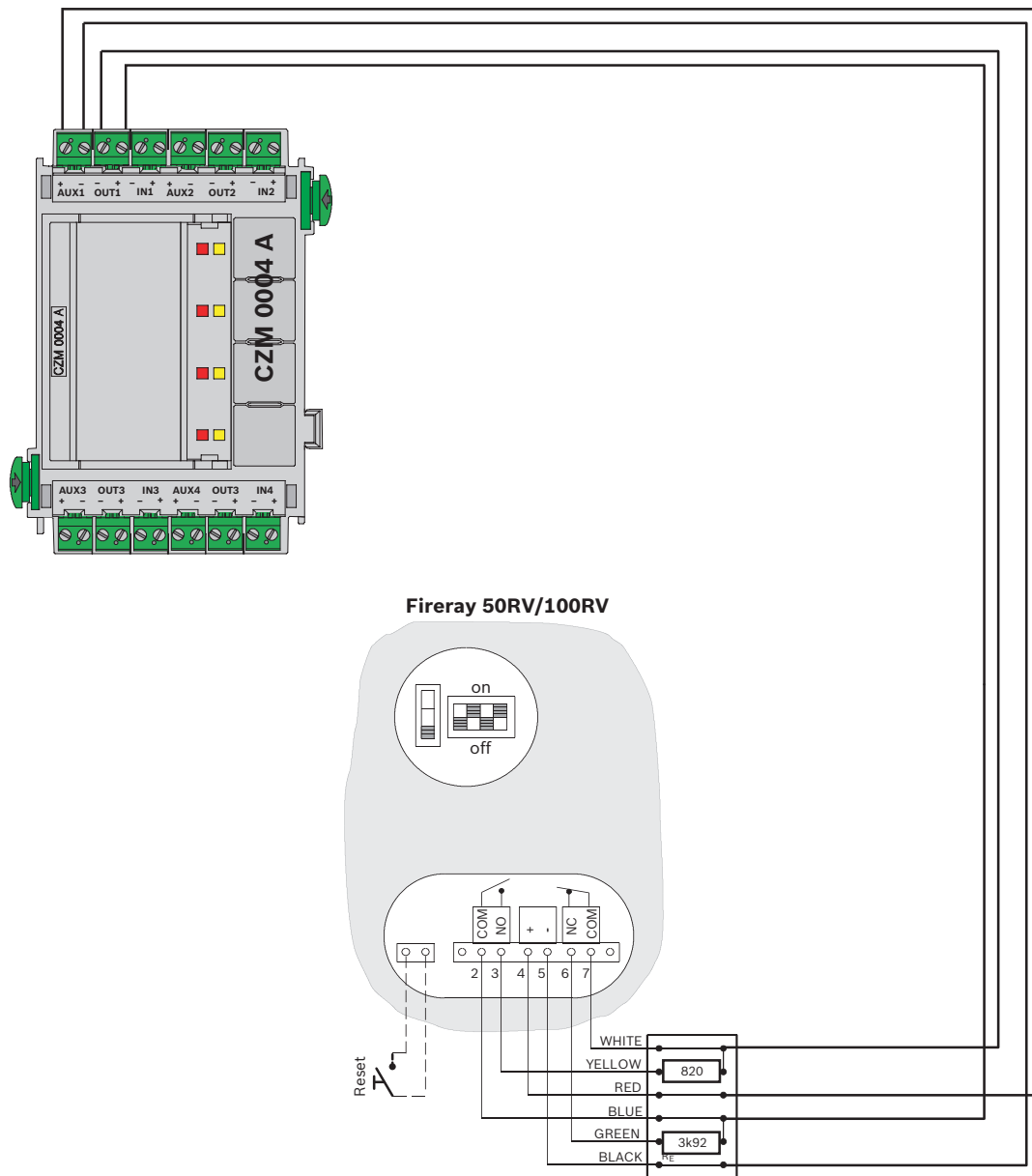
FLM-420-NAC-D



2.4.2 CZM 0004 A



Firearay 50RV
Firearay 100RV



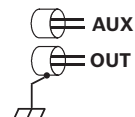
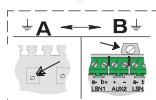
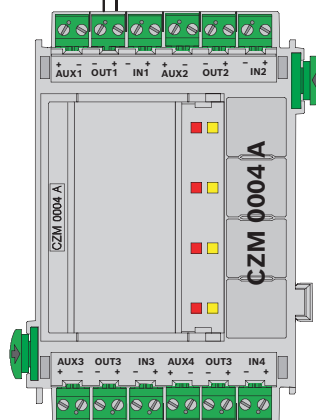


FIRERAY3000

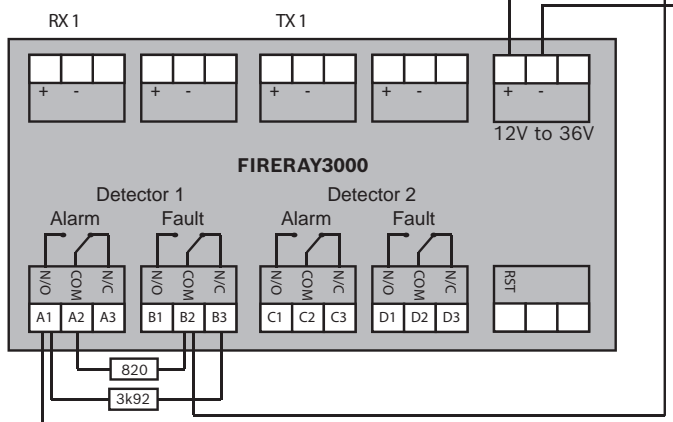
1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

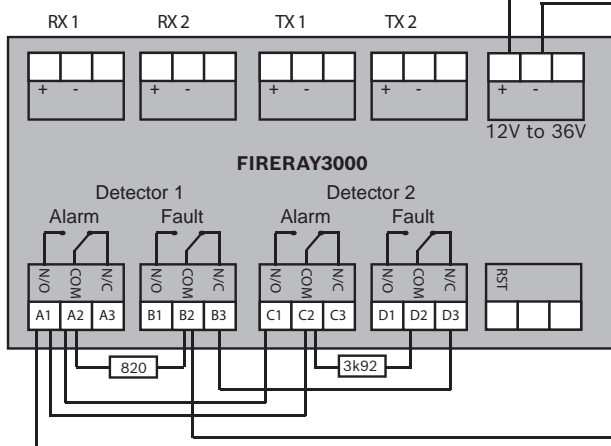
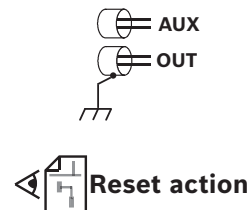
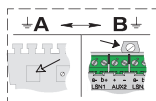
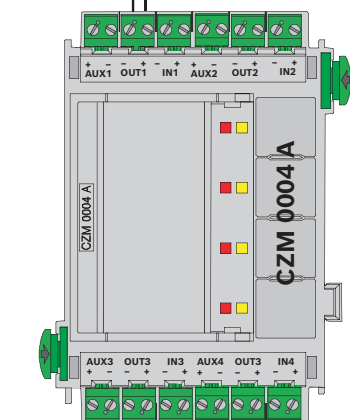




FIRERAY3000
2 x  **OUT1**



BCM-000-B
LSN 0300 A
LSN 1500 A

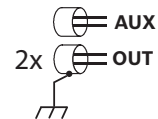
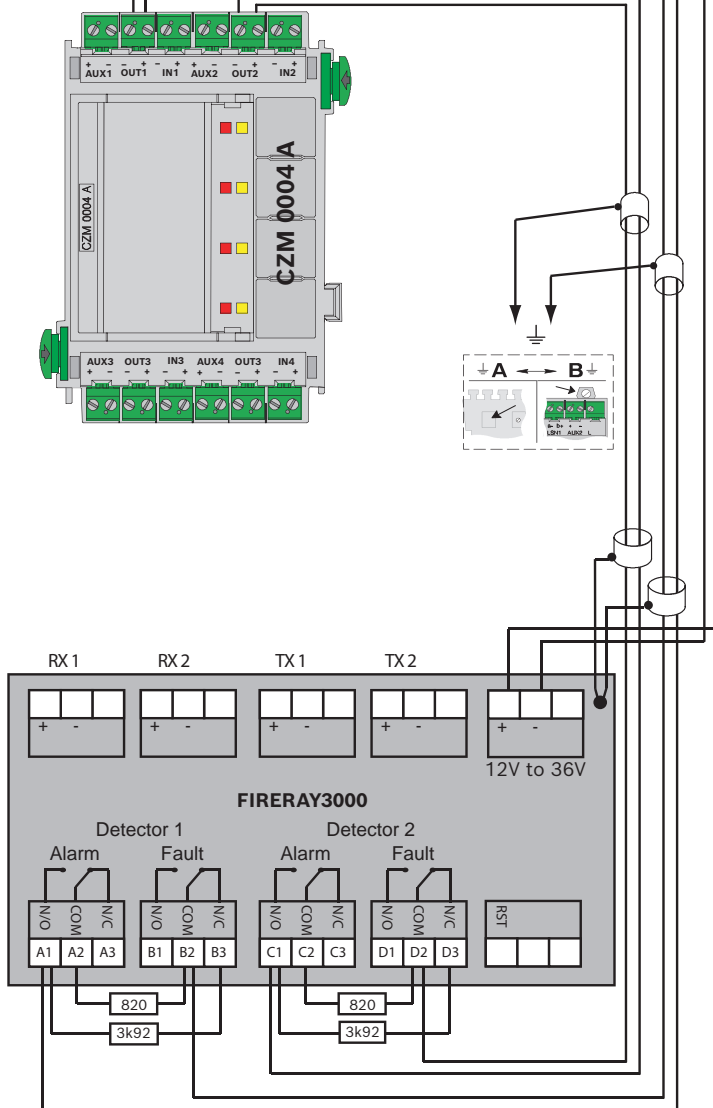




FIRERAY3000
2 x **OUT1+2**



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

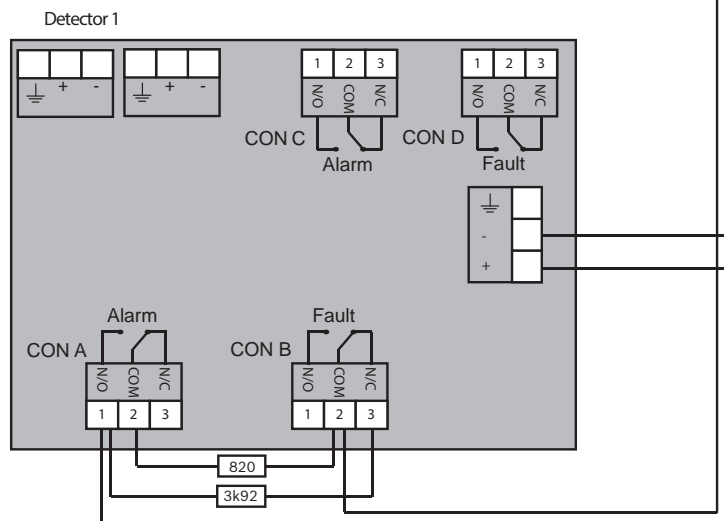
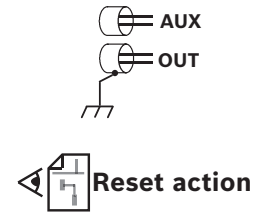
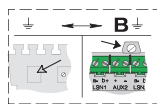
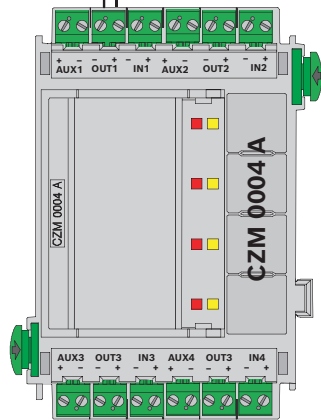


FIRERAY5000

1 x



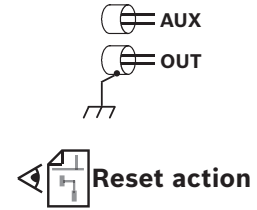
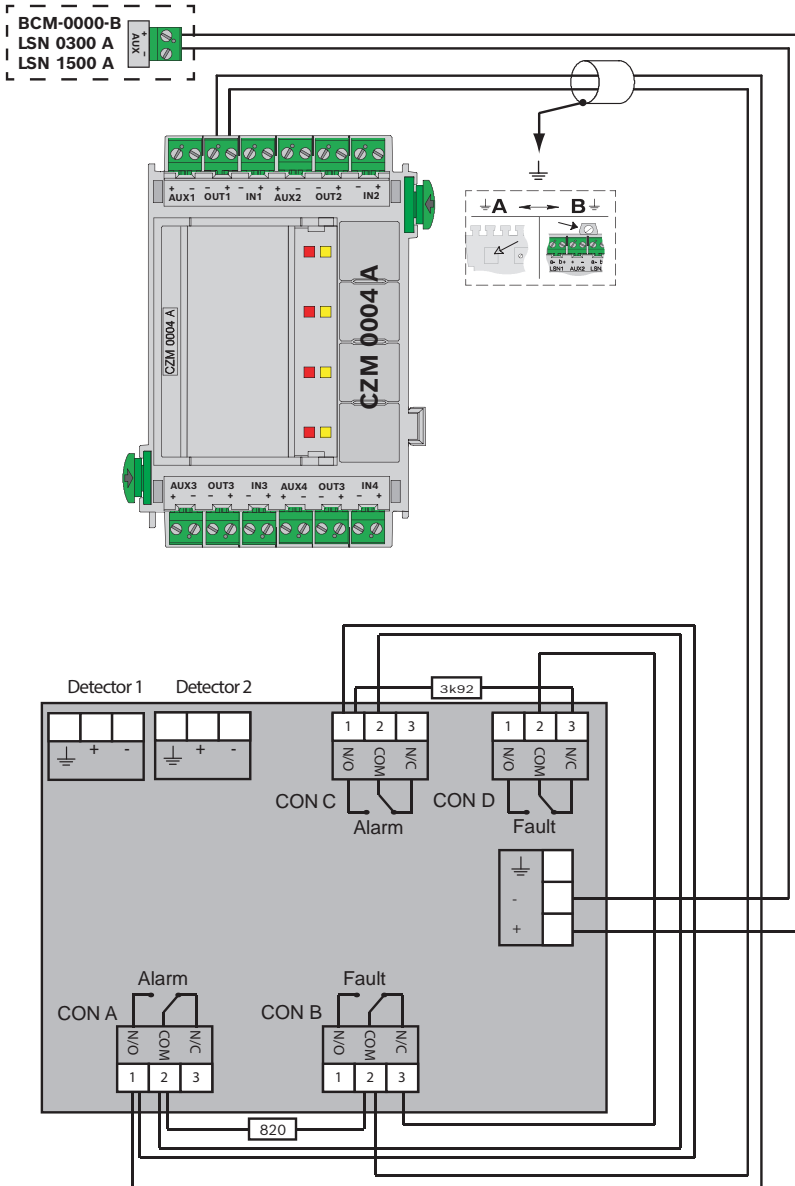
BCM-0000-B
LSN 0300 A
LSN 1500 A

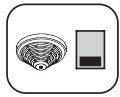




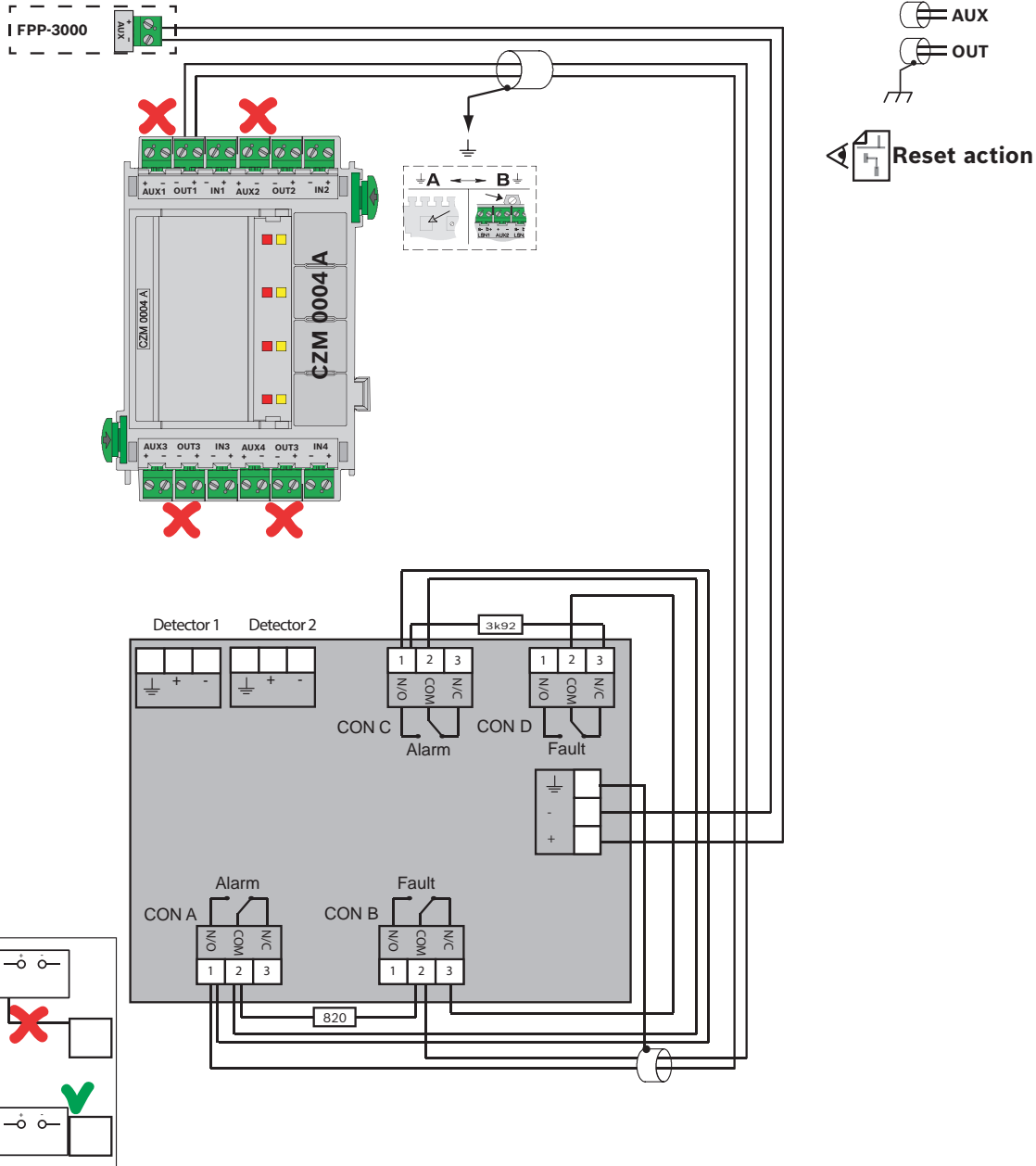
FIRERAY5000

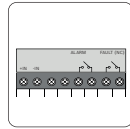
2 x OUT1



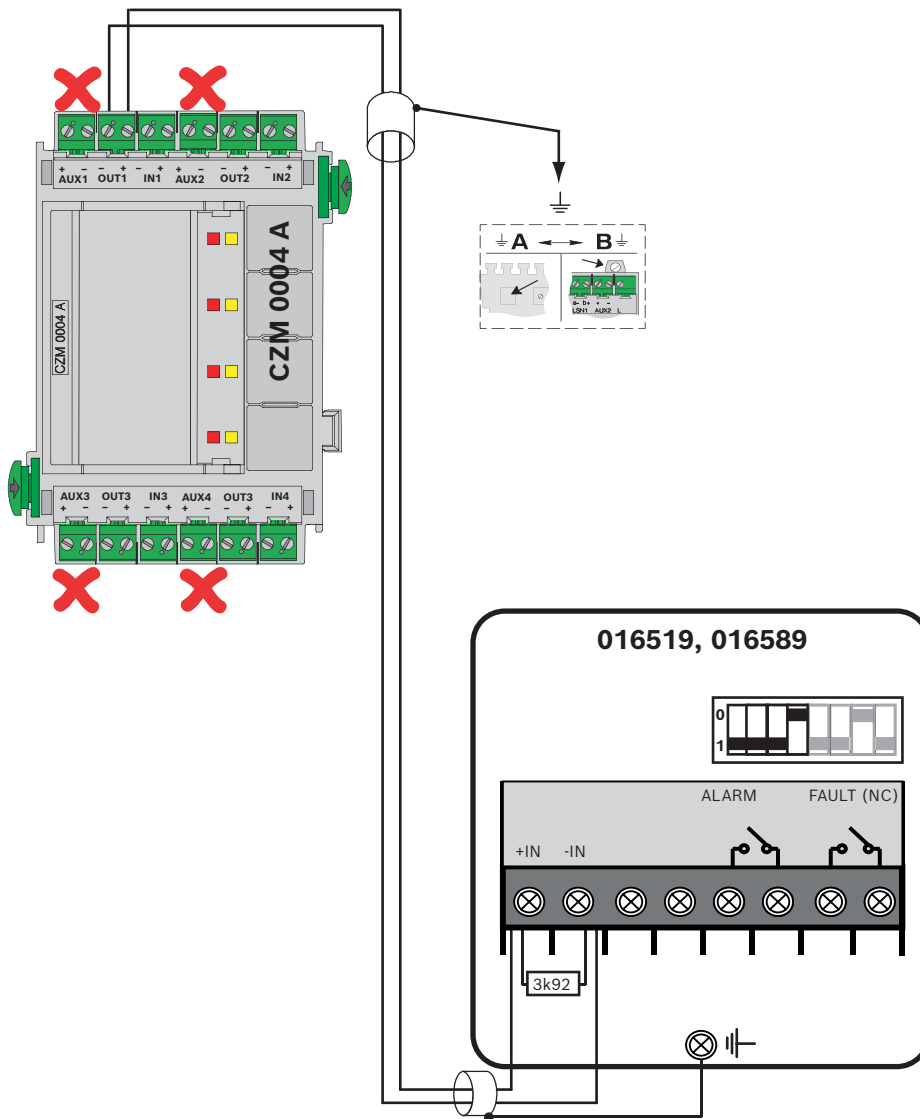
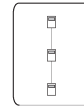


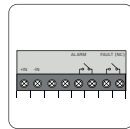
FIRERAY5000
2 x **OUT1**



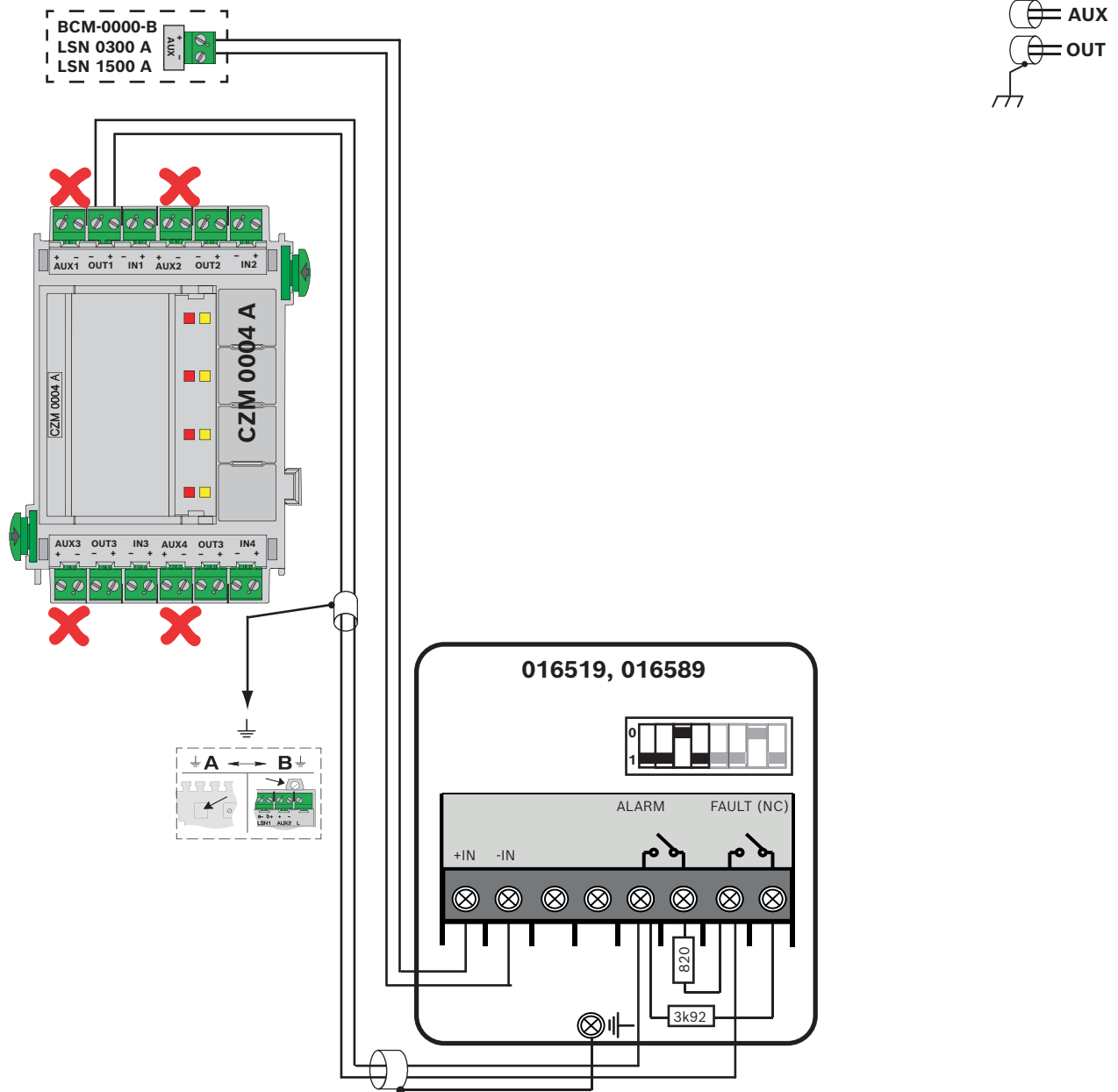
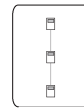


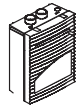
**016519, 016589
IR3 Flame Detector**



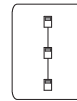


**016519, 016589
IR3 Flame Detector**

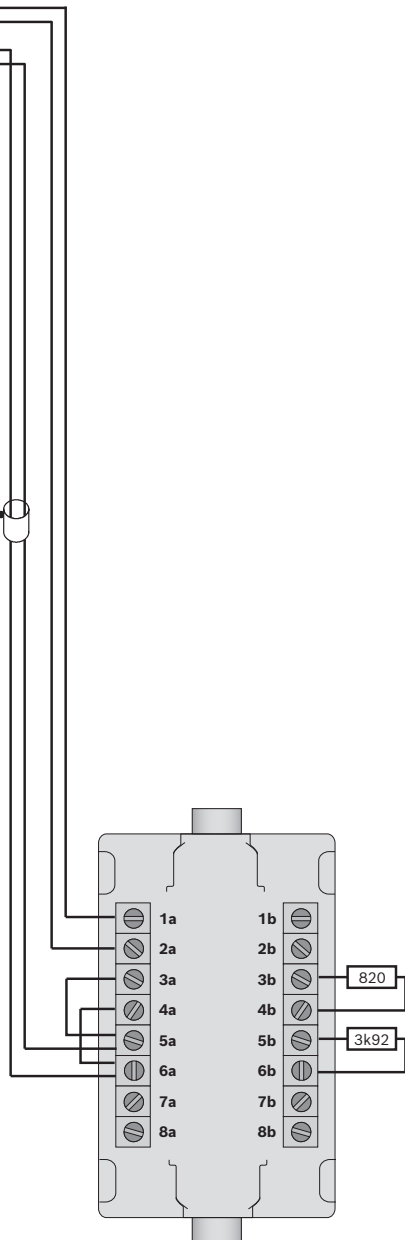
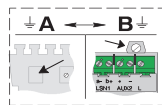
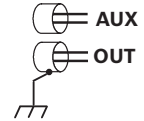
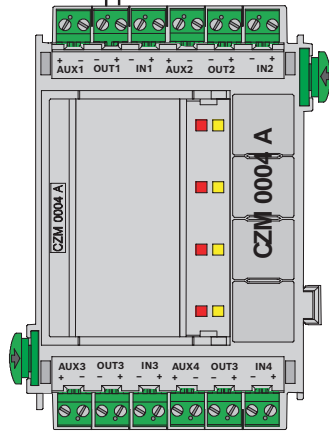


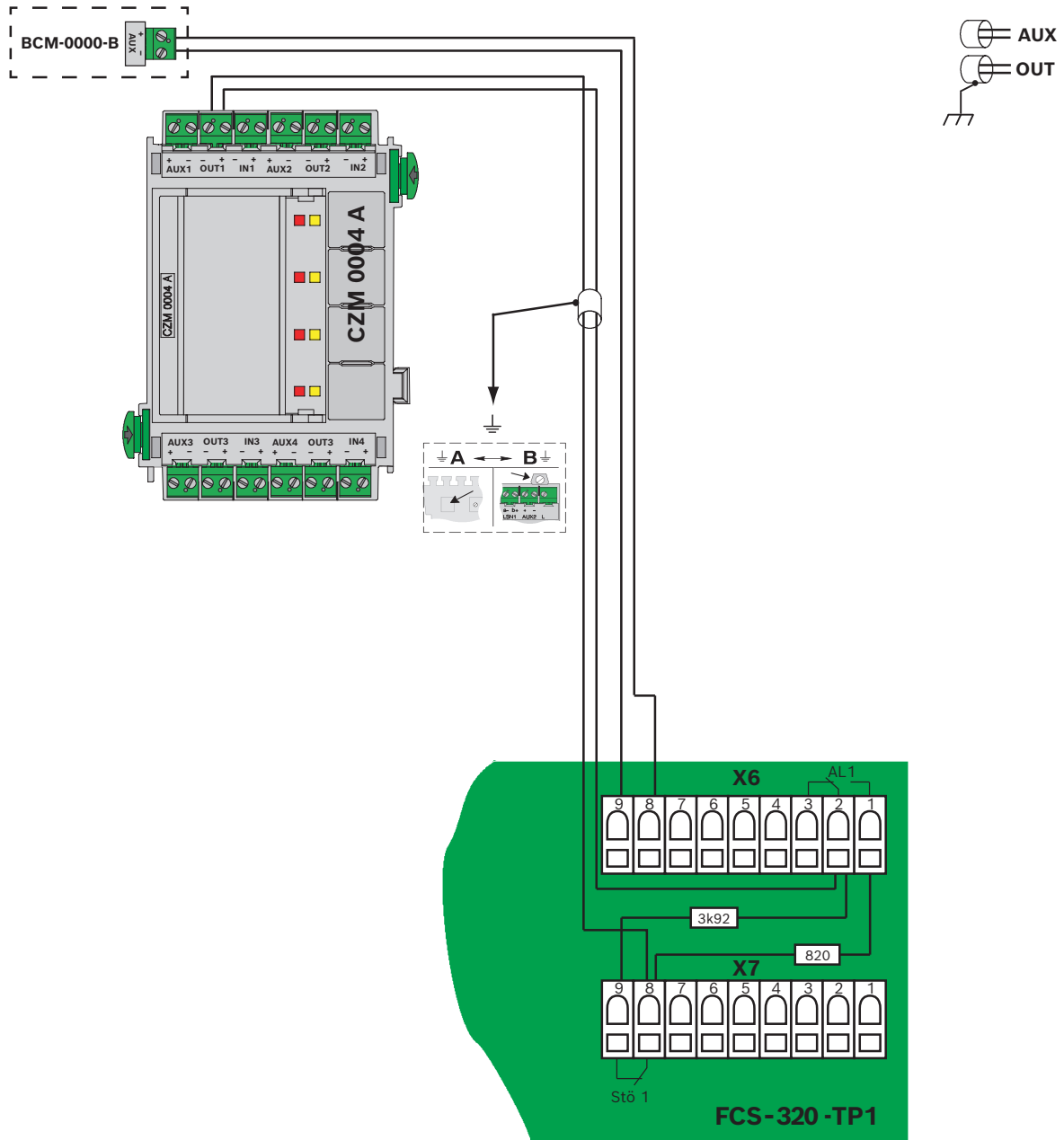
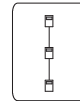
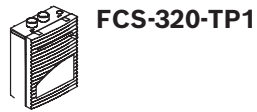


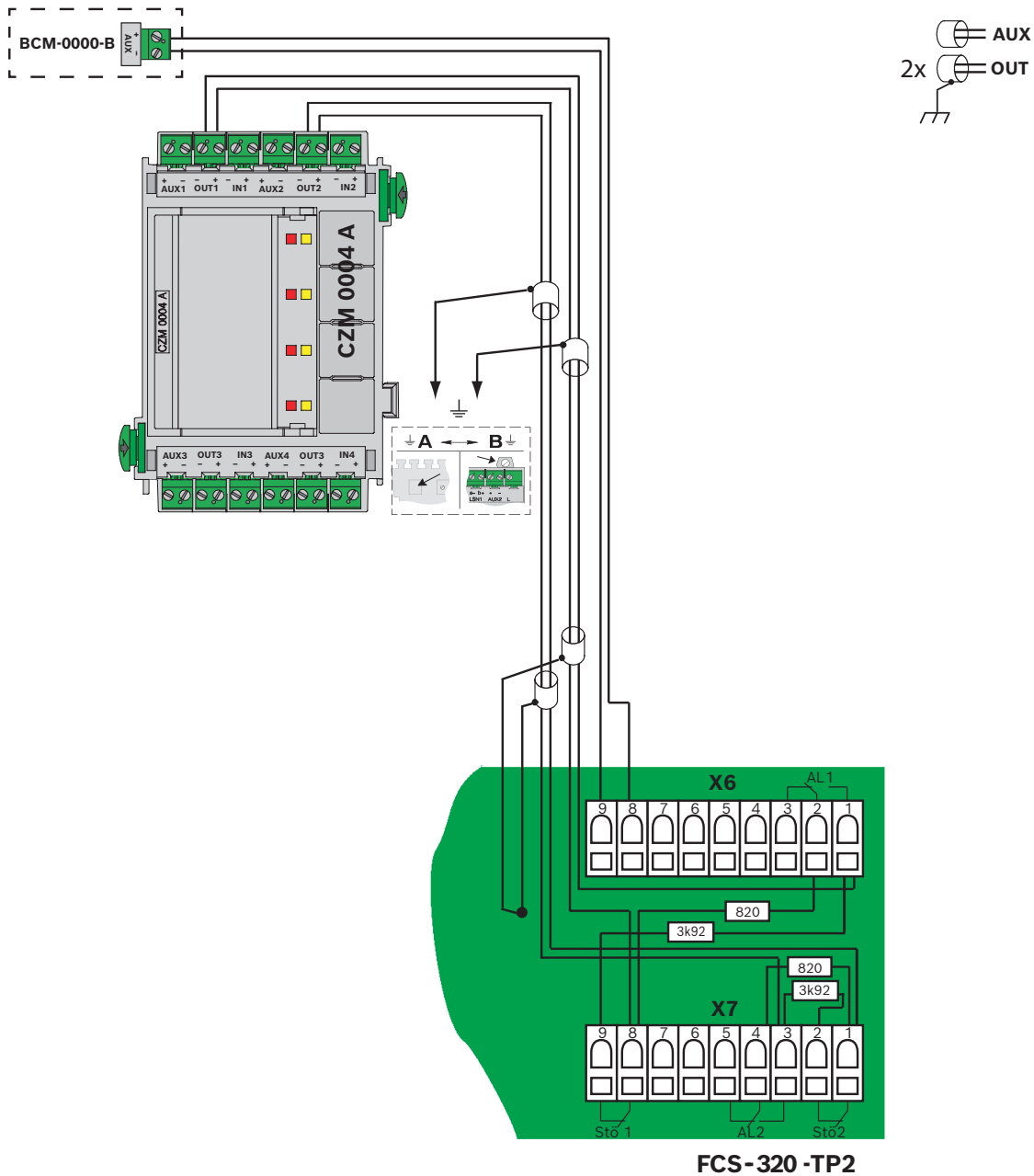
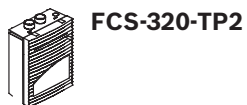
FCS-320-TM Series



BCM-0000-B
LSN 0300 A
LSN 1500 A



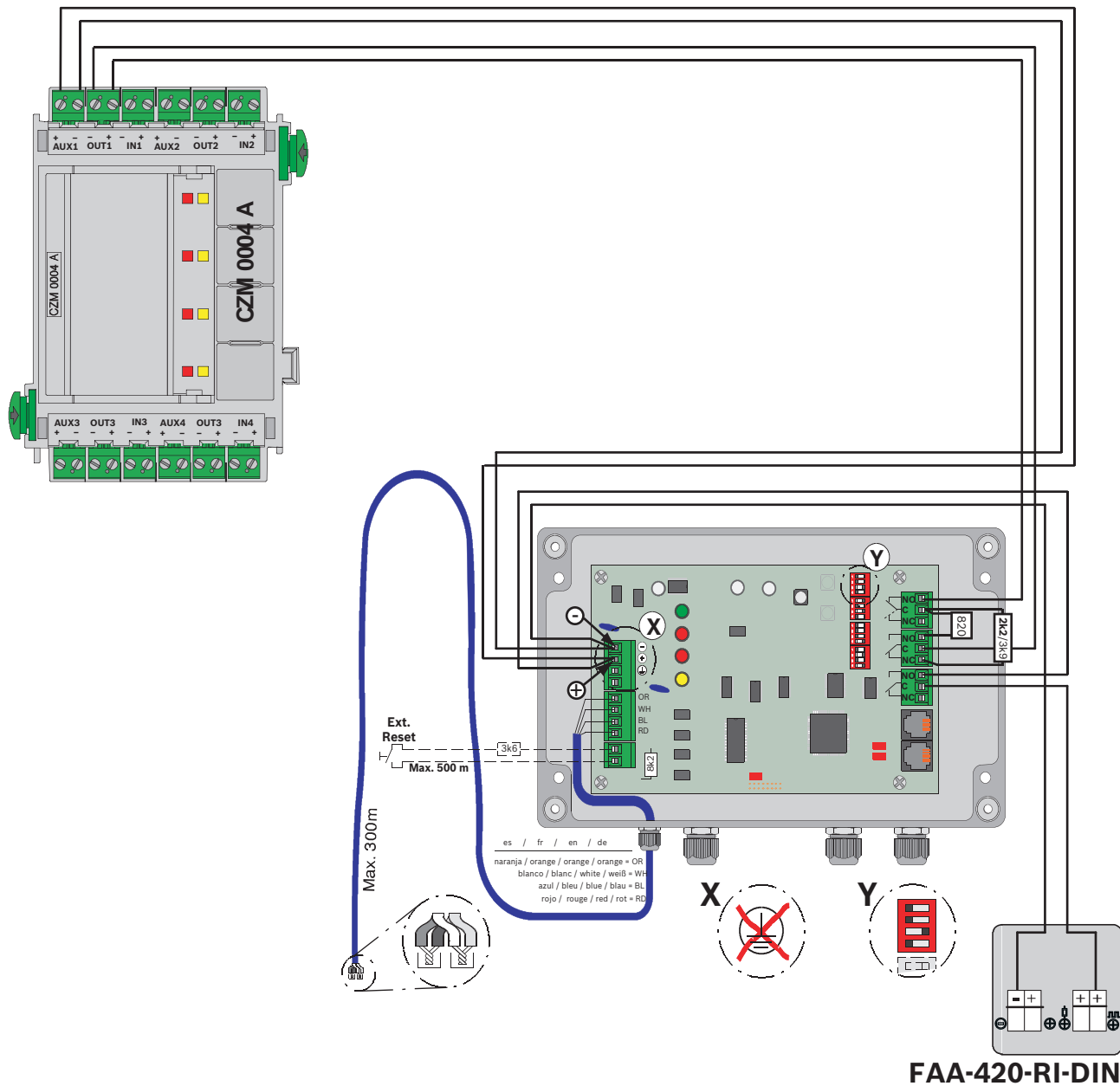




FCS-320-TP2

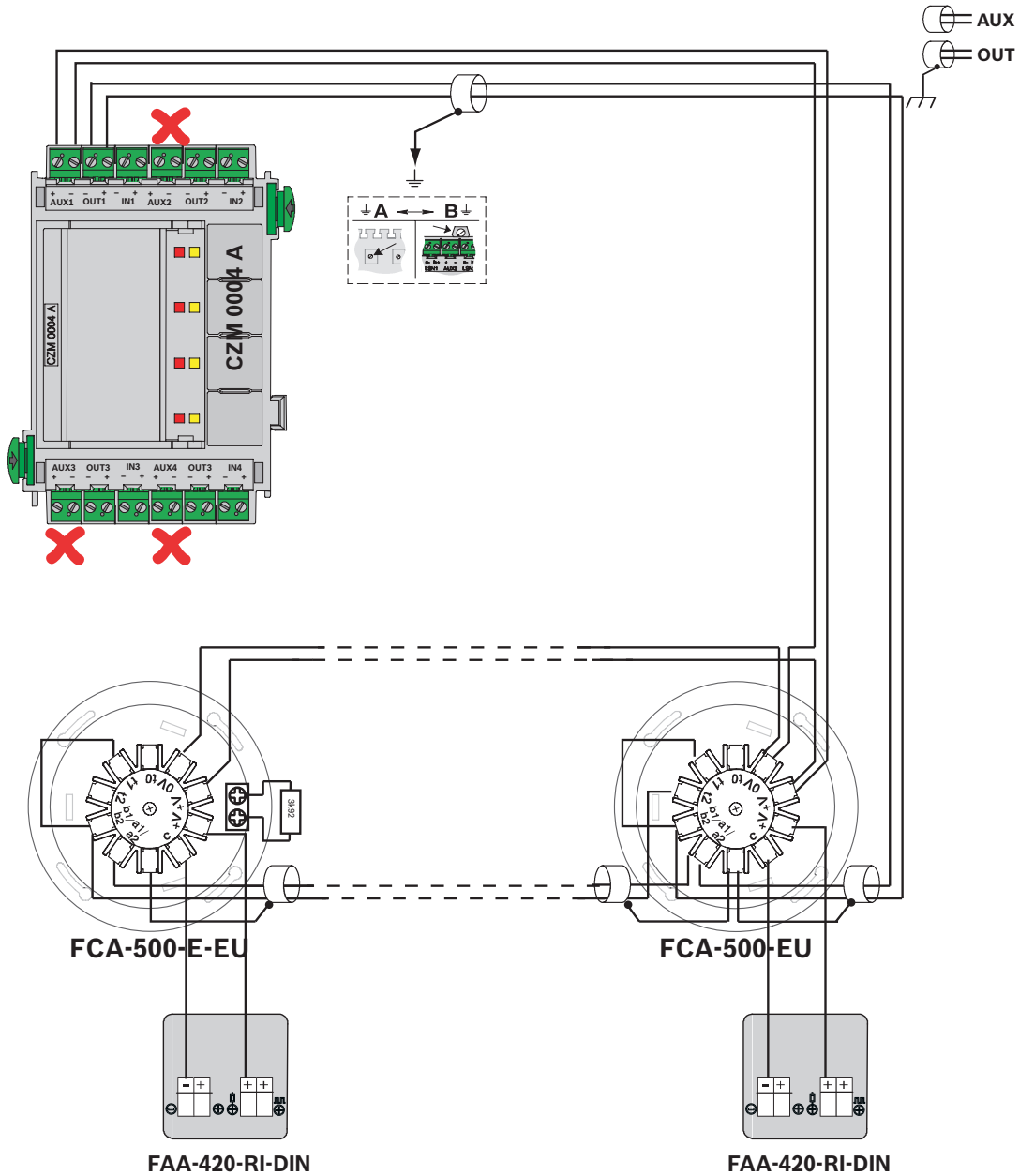


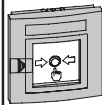
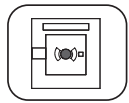
FCS-LWM-1



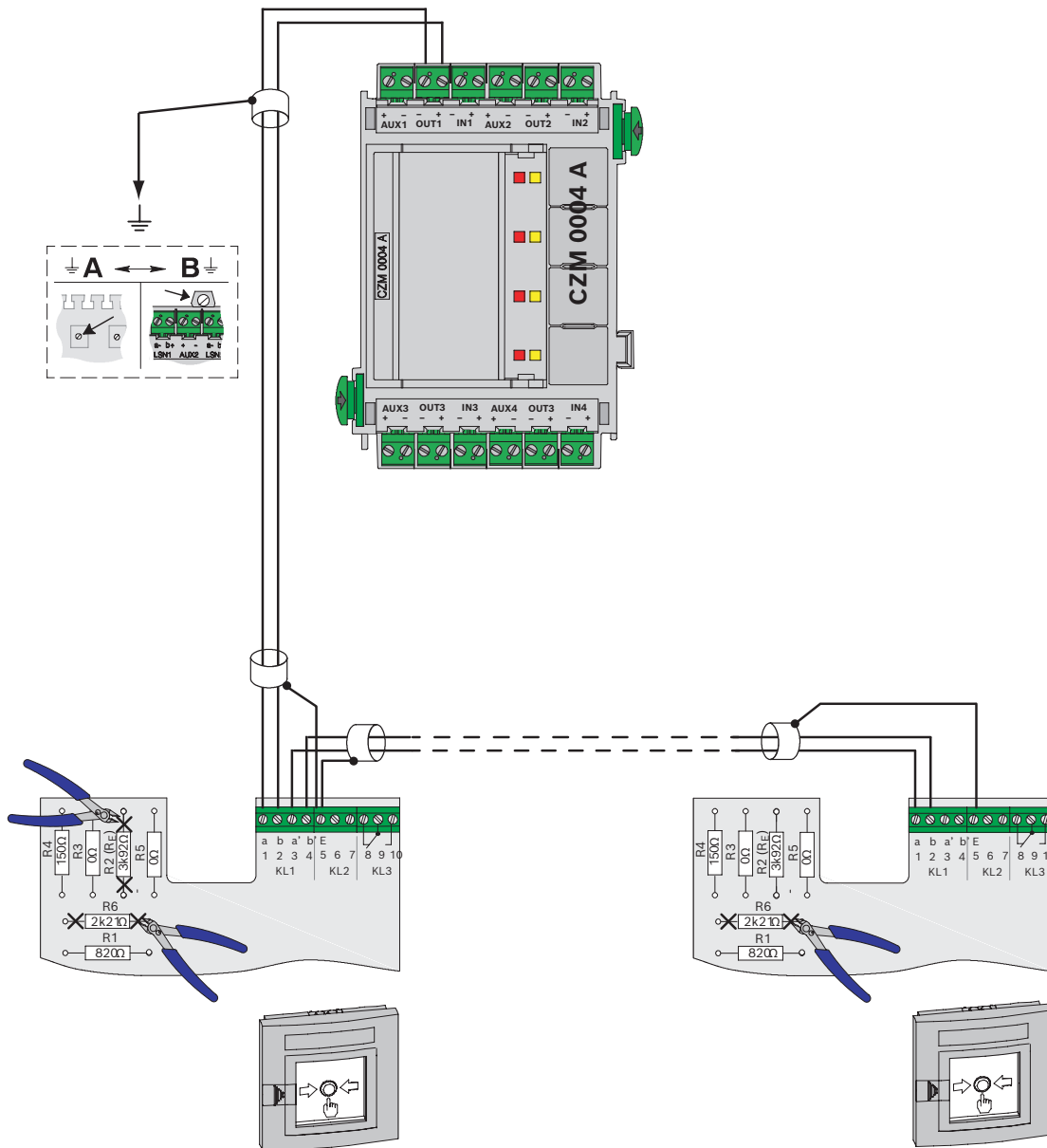
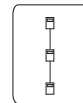


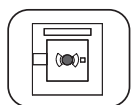
FCA-500-EU
 FCP-O 500
 FCP-O 500-P
 FCP-OC 500
 FCP-OC 500-P



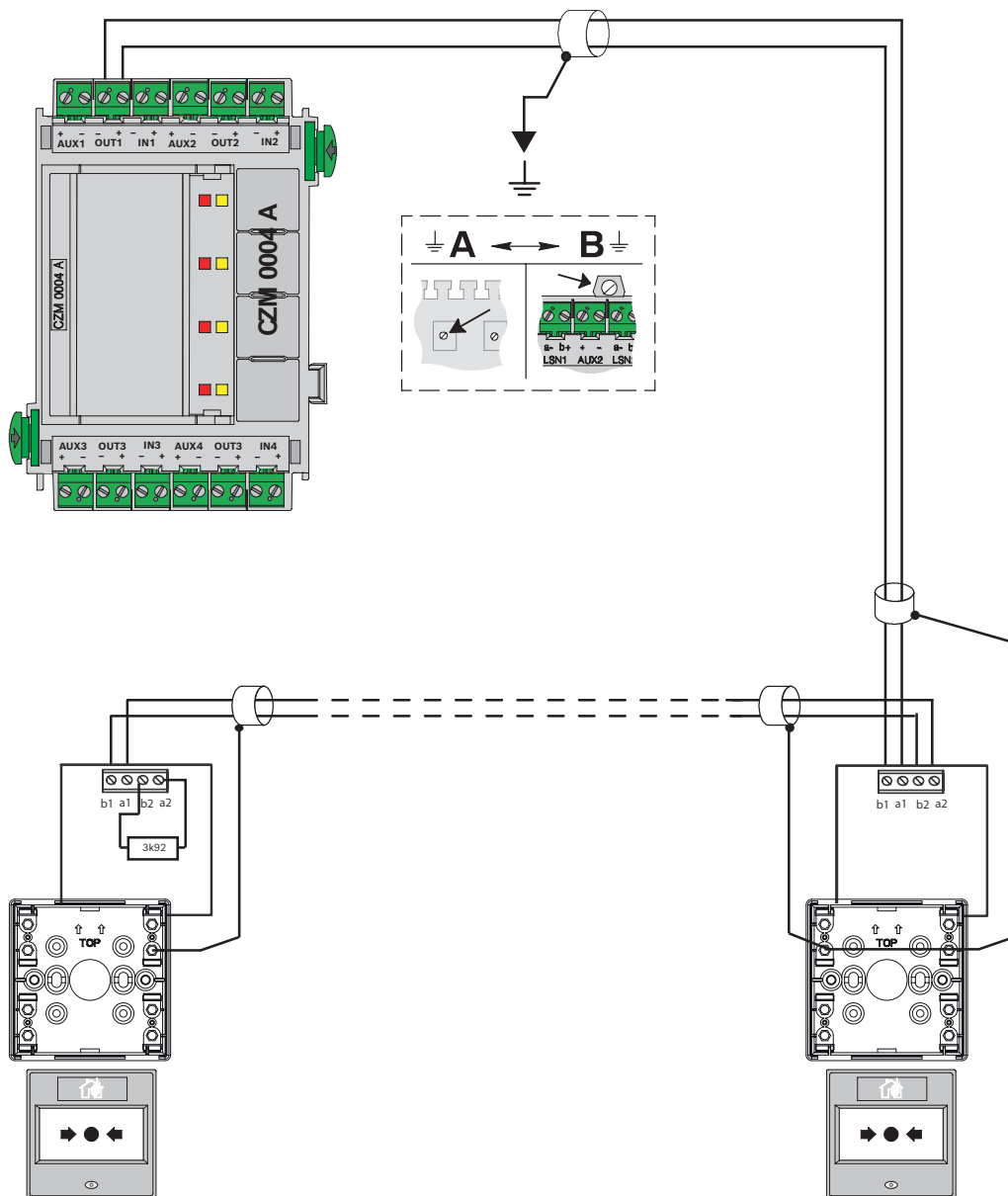
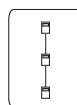


FMC-120-DKM-G-R
FMC-120-DKM-H-R
FMC-120-DKM-G-B
FMC-120-DKM-H-B
FMC-120-DKM-G-Y





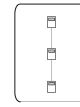
FMC-300RW-GSGBU
FMC-300RW-GSRBU
FMC-300RW-GSGRD
FMC-300RW-GSRRD
FMC-300RW-GSGYE
FMC-300RW-GSRYE



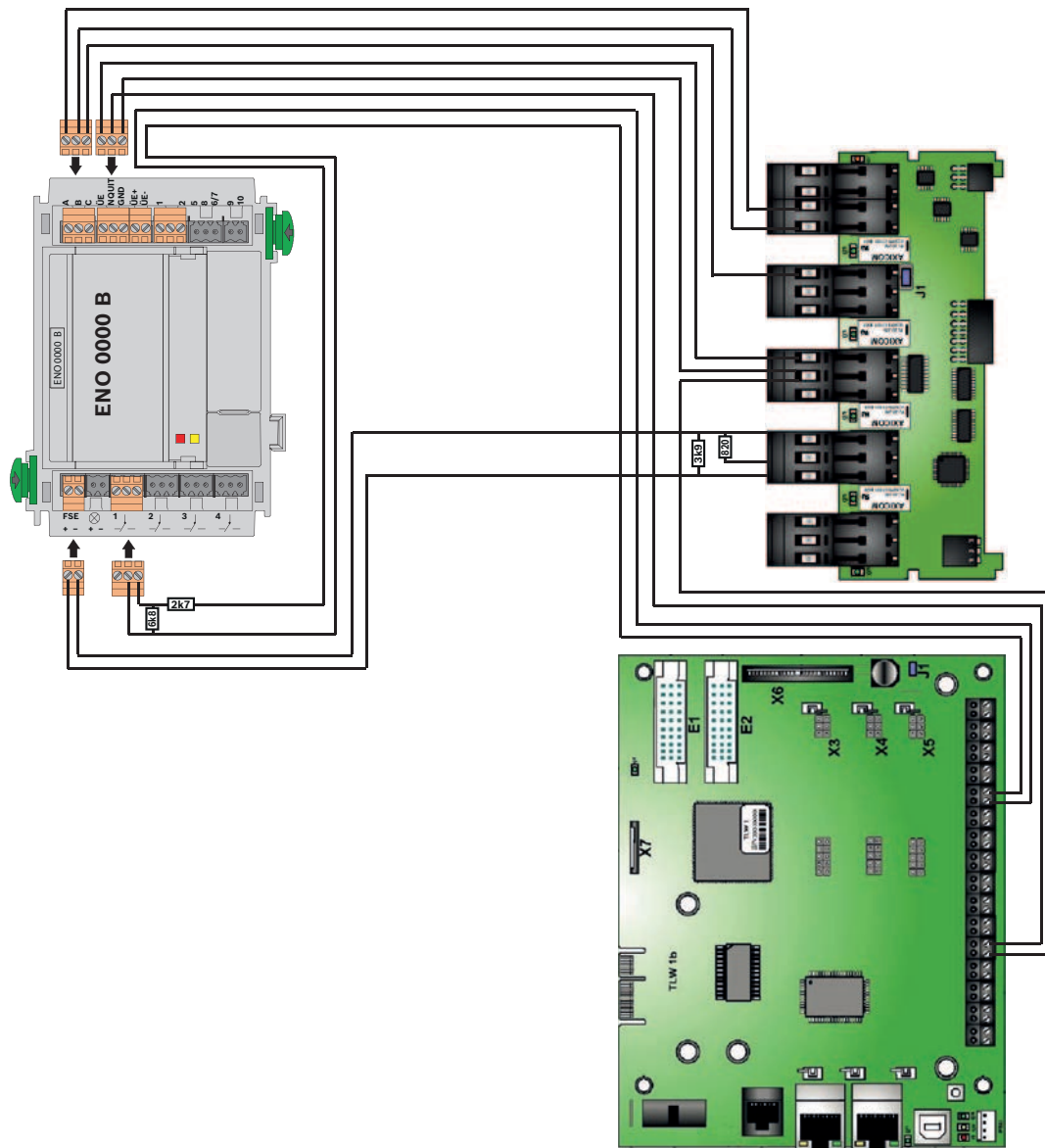
2.4.3 ENO 0000 A/B

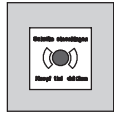
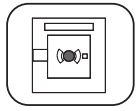


AT5000 IP/GPRS

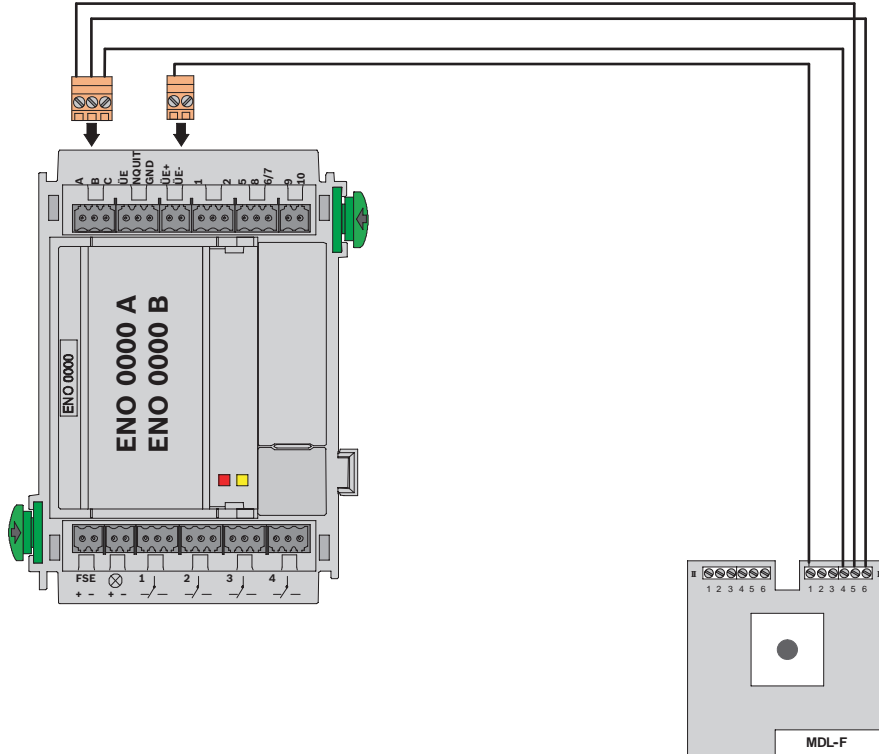


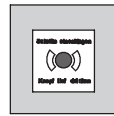
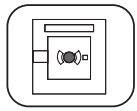
EN 54-2



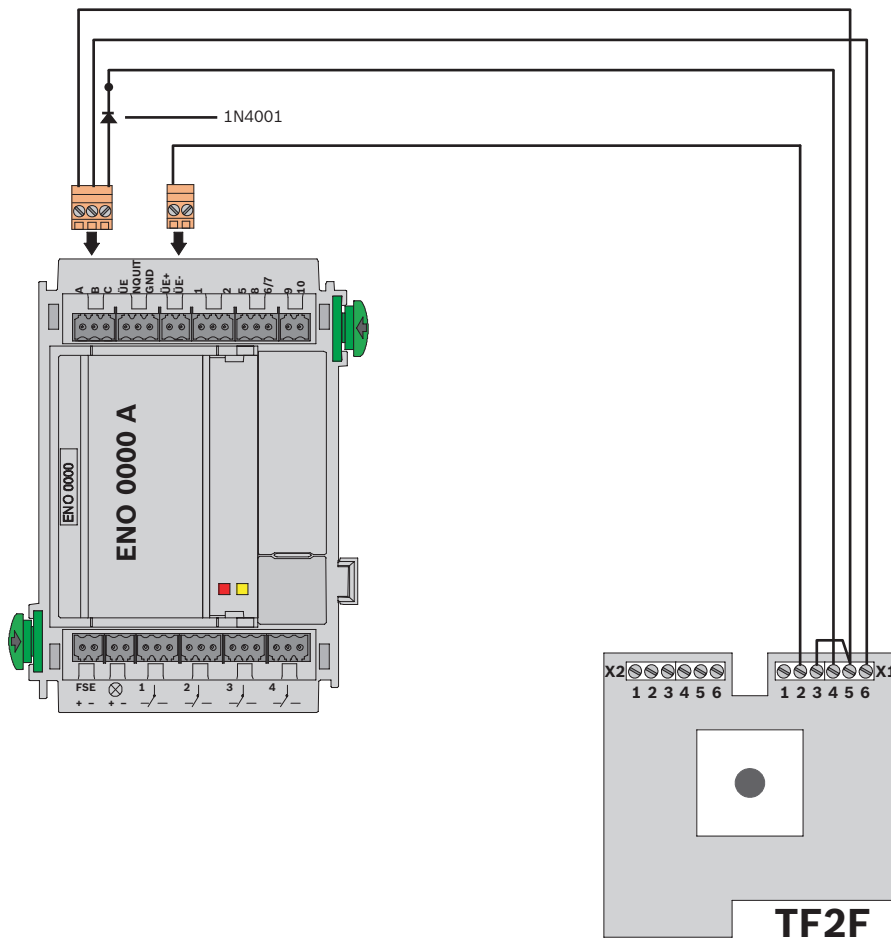
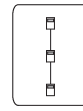


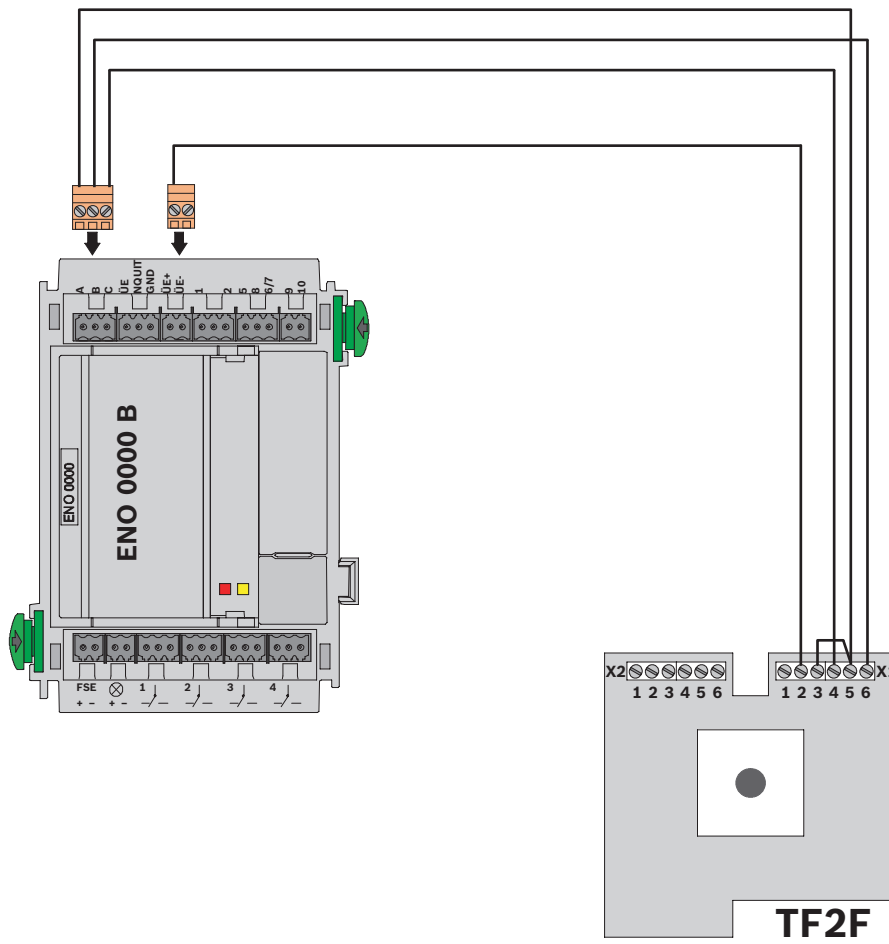
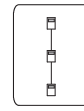
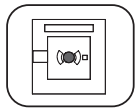
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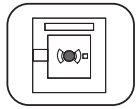




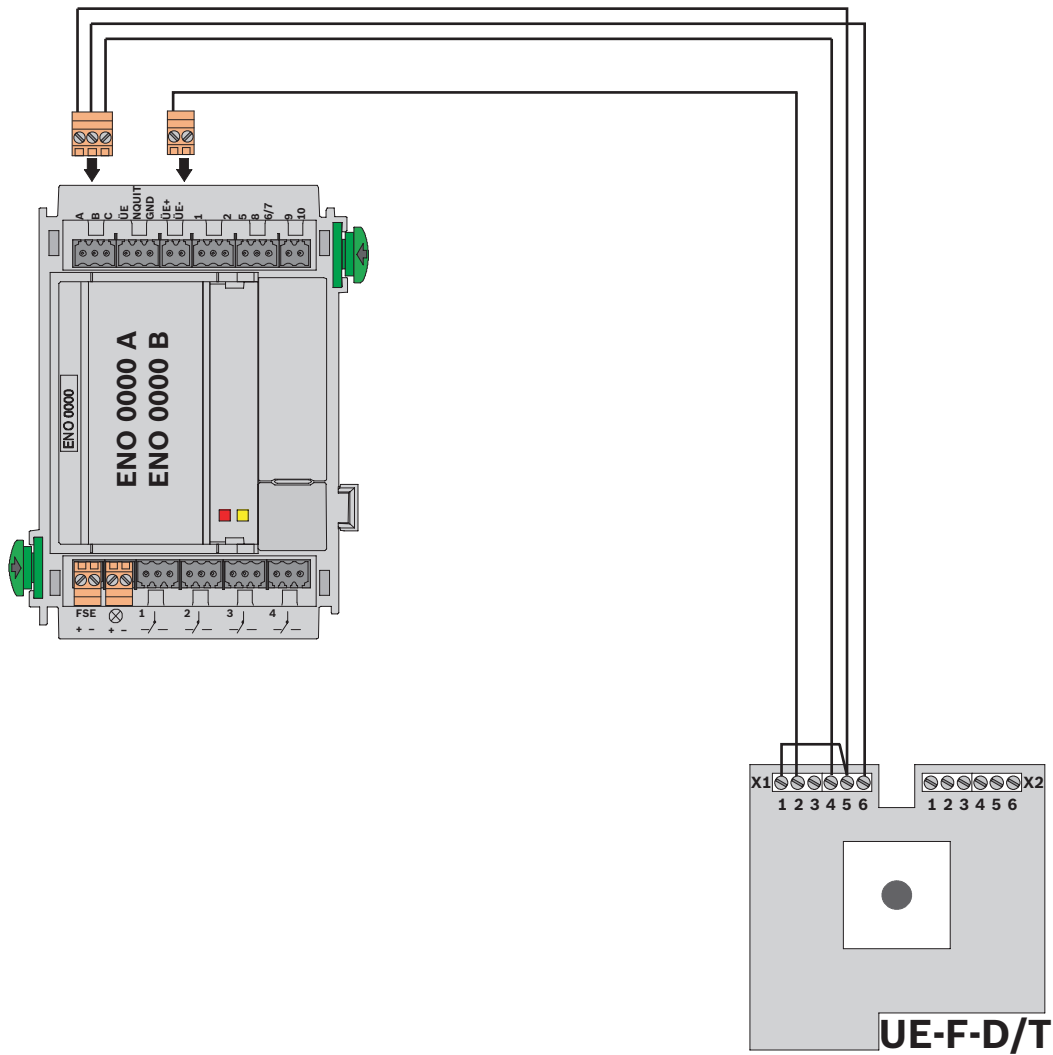
TF2F

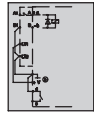




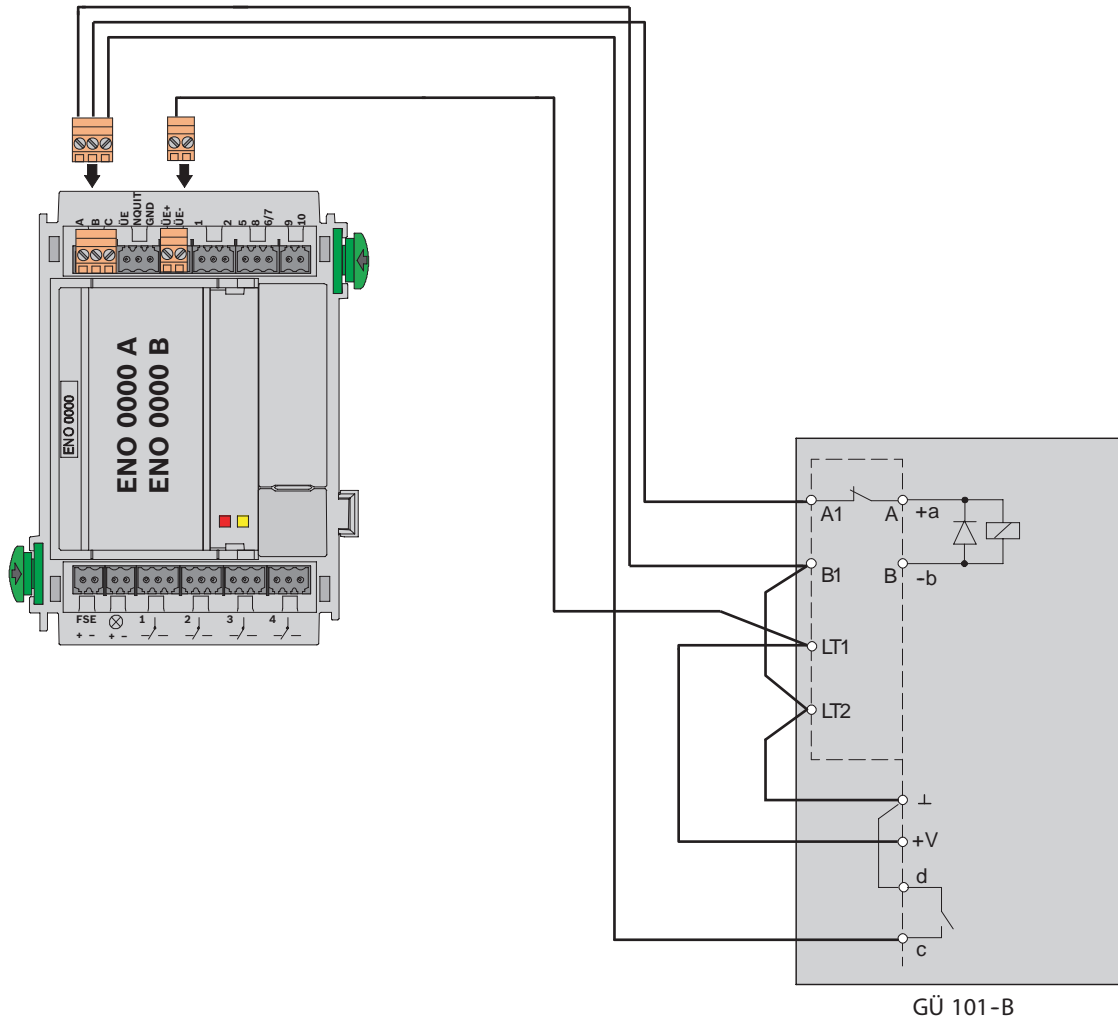
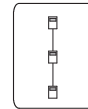


UE-F-D/T

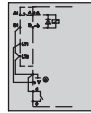




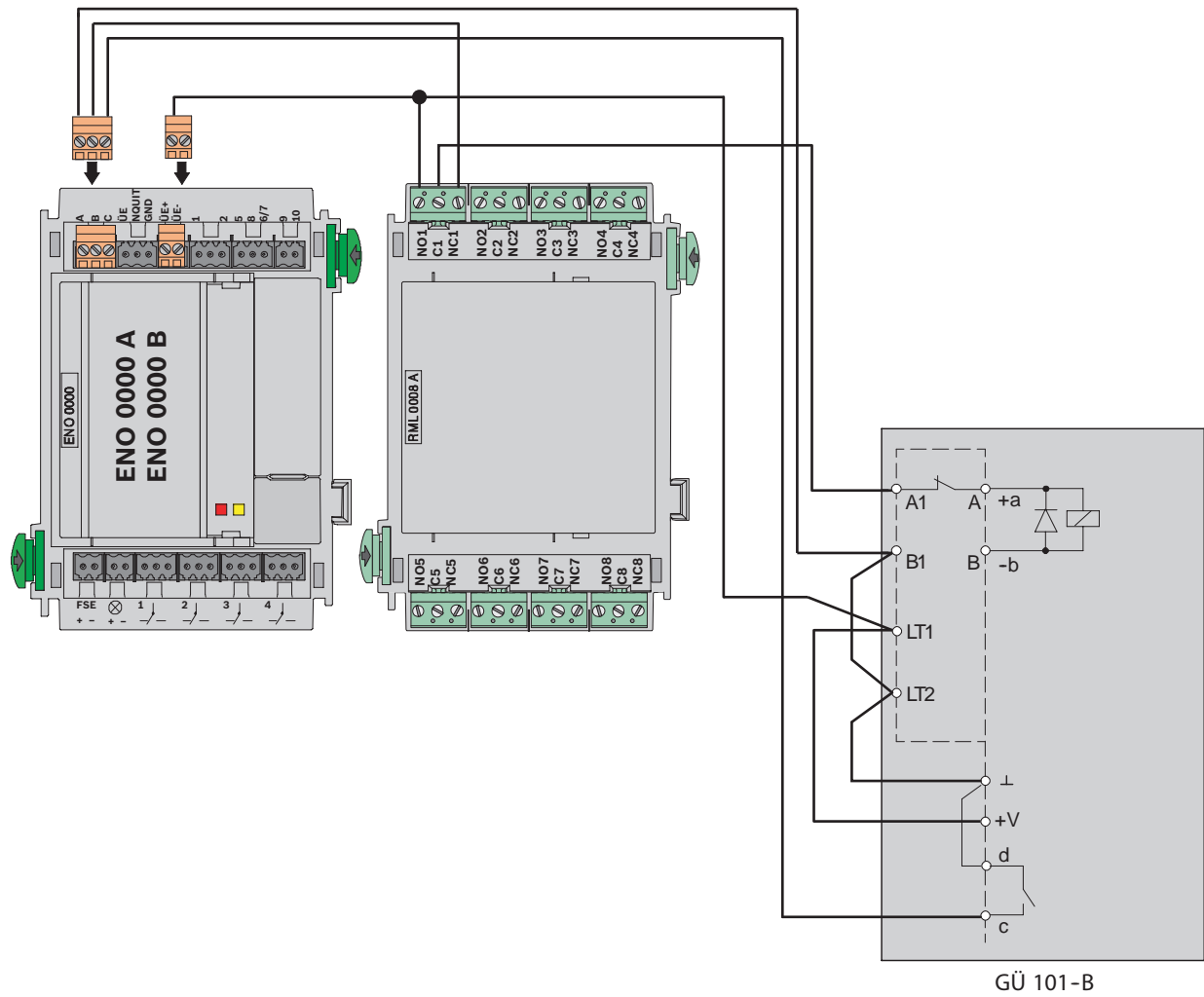
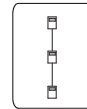
GÜ 101-B



GÜ 101-B

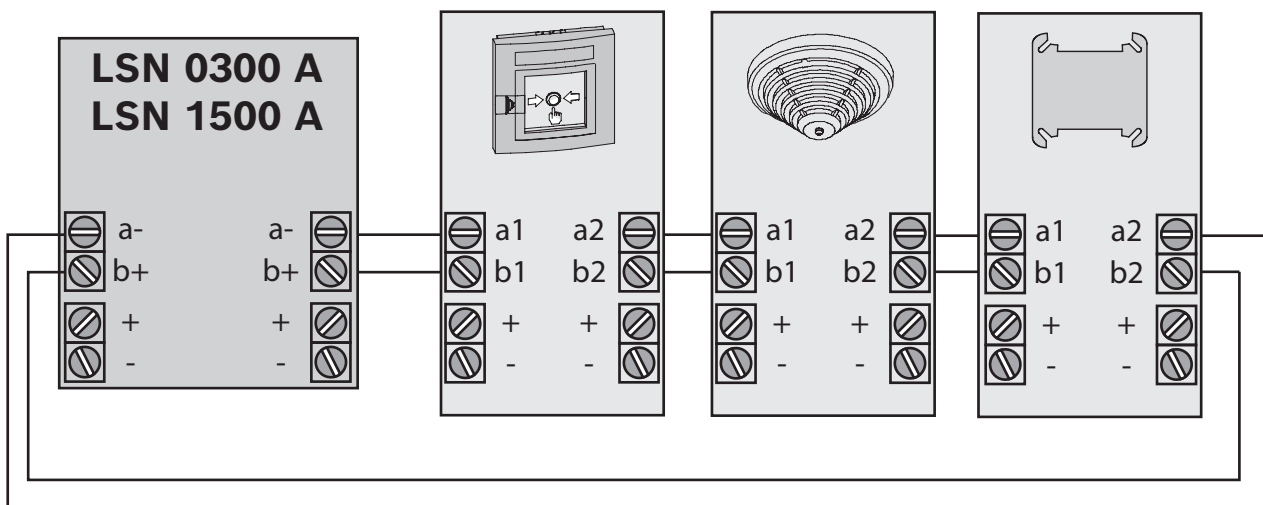
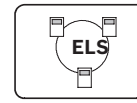


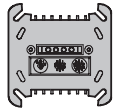
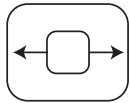
GÜ 101-B



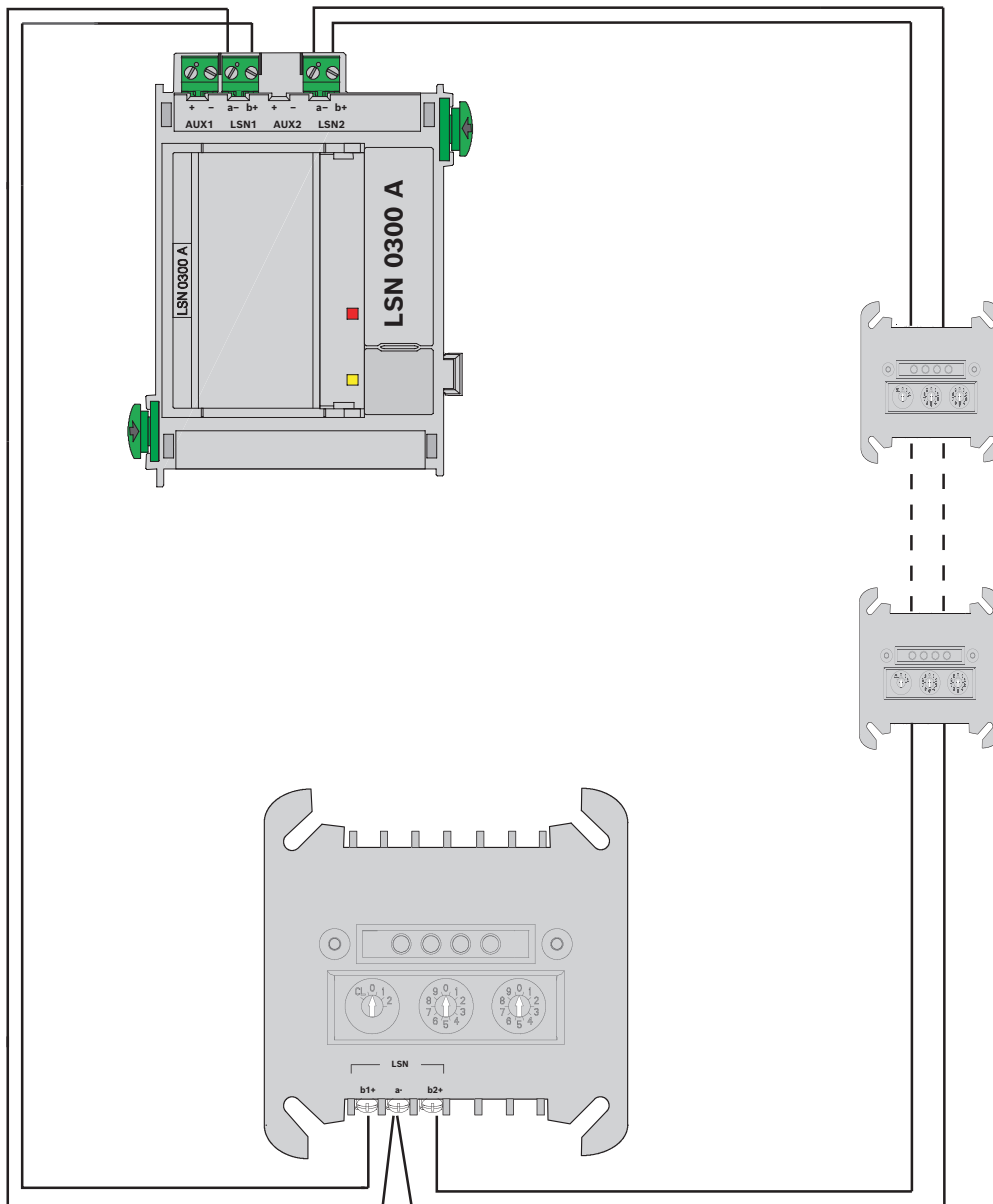
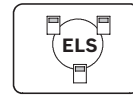
2.4.4

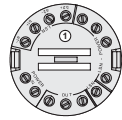
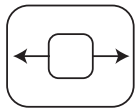
LSN 0300 A



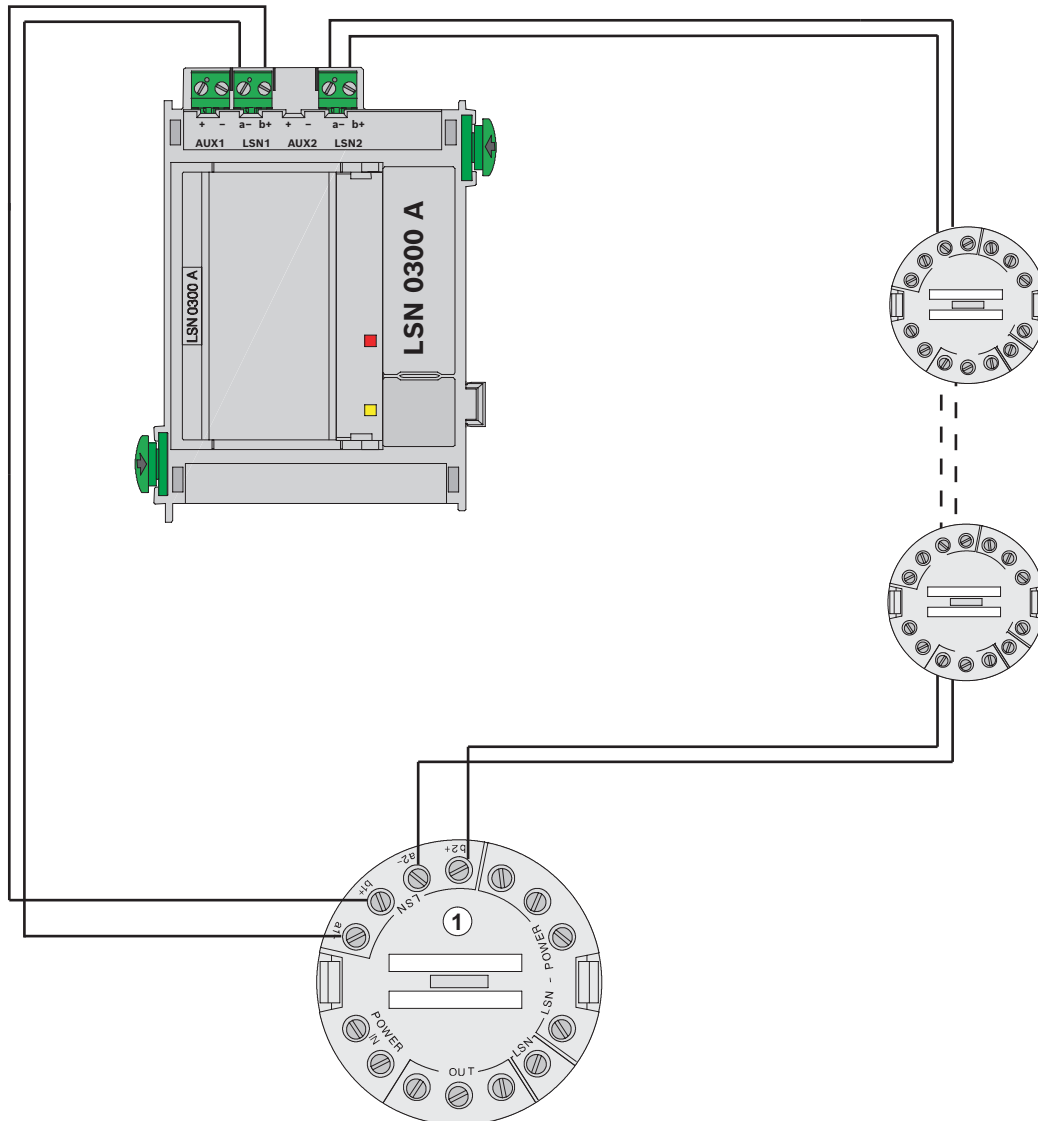
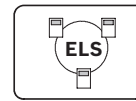


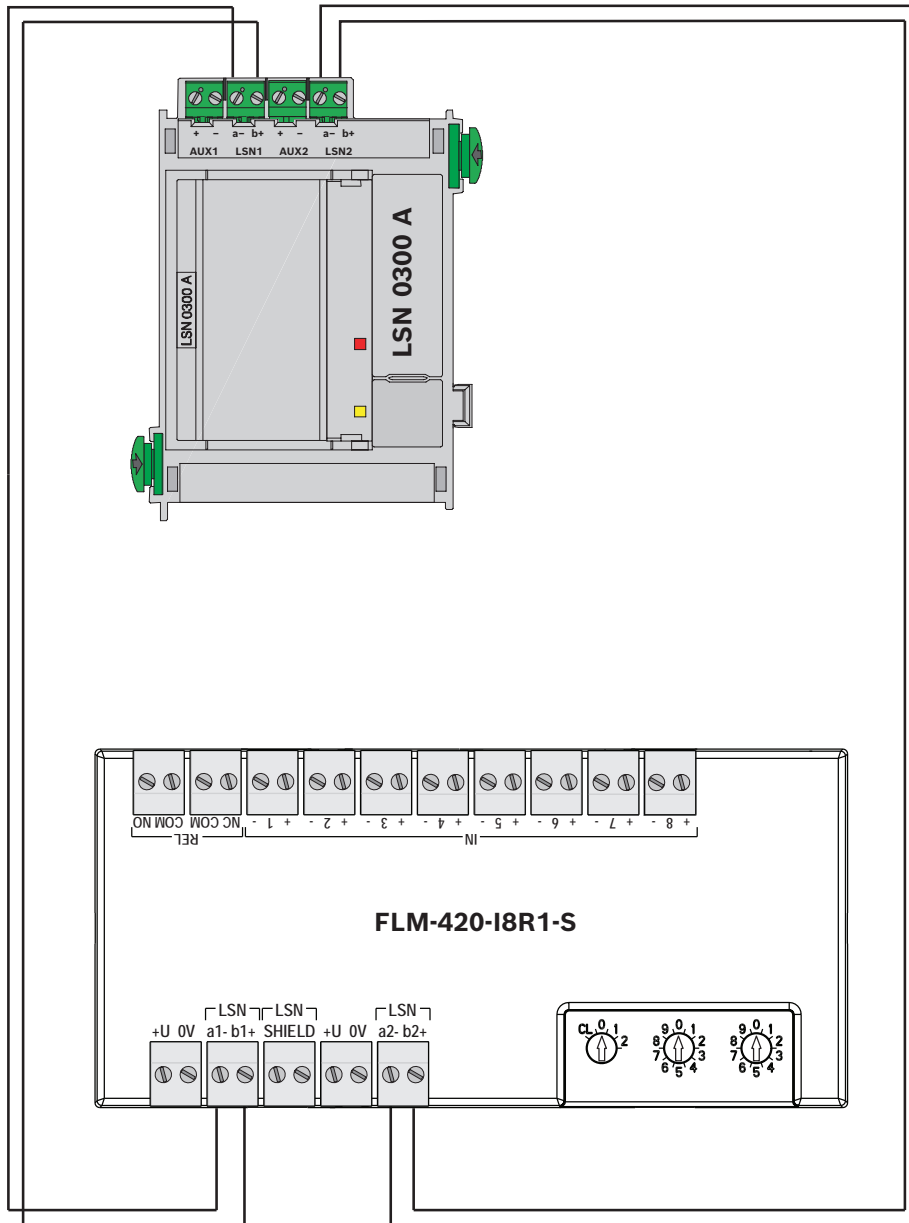
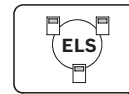
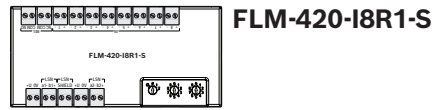
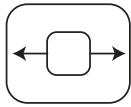
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FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

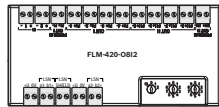
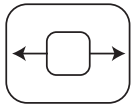




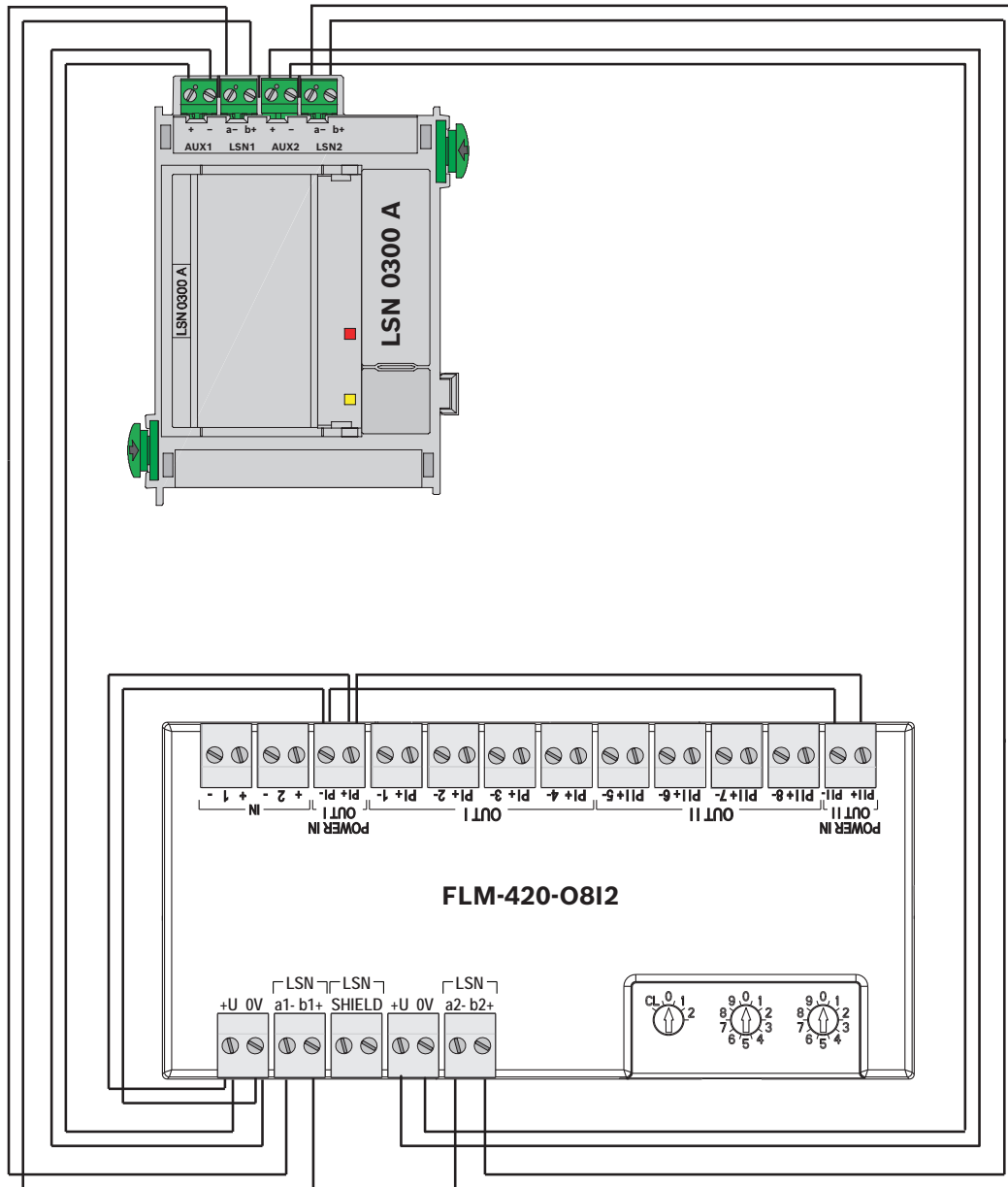
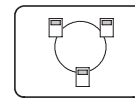
FLM-420-12-E/W
FLM-420-RLV1-E

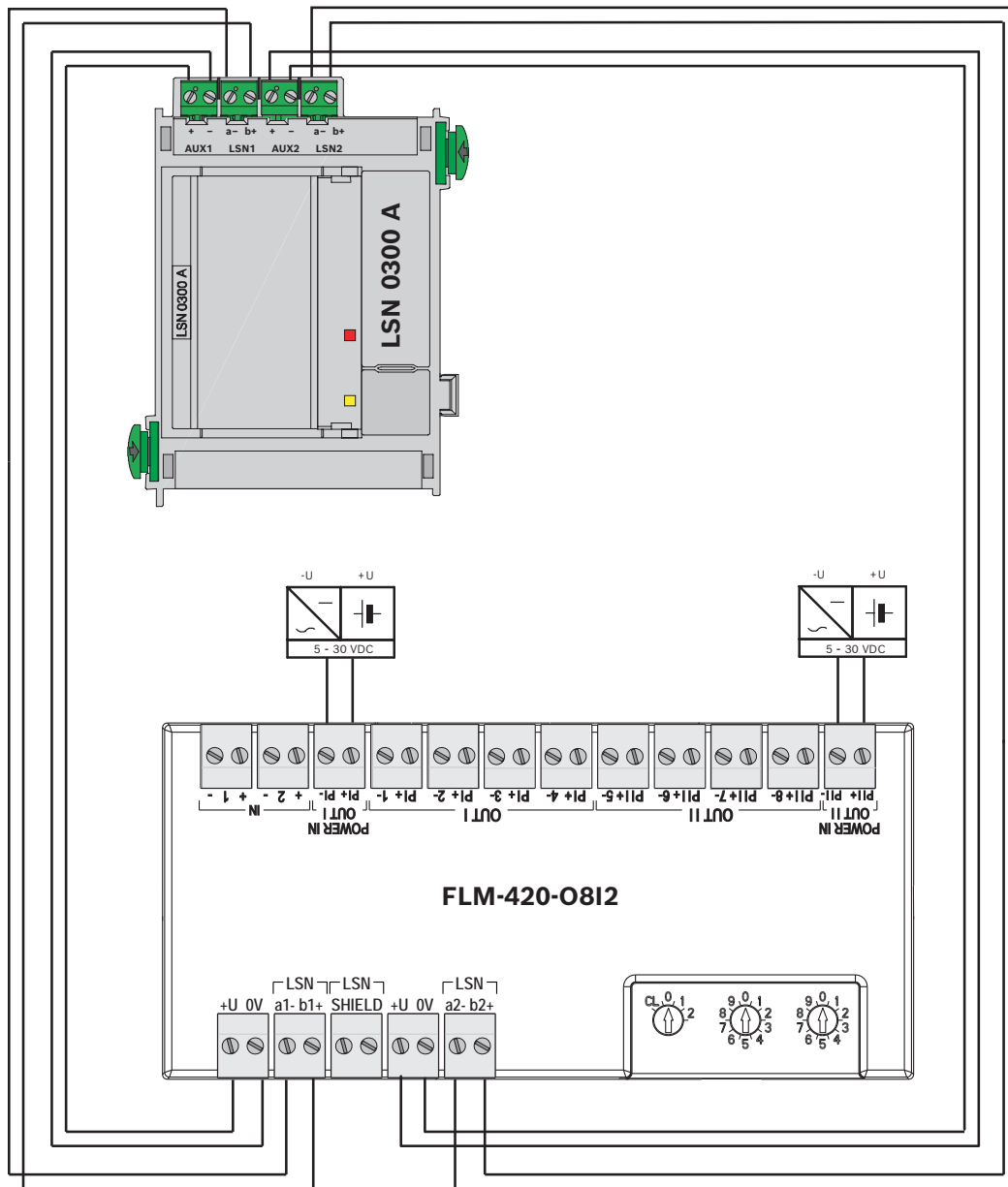
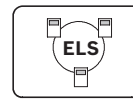
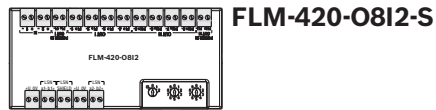
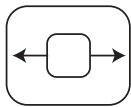


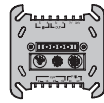
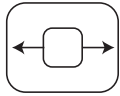




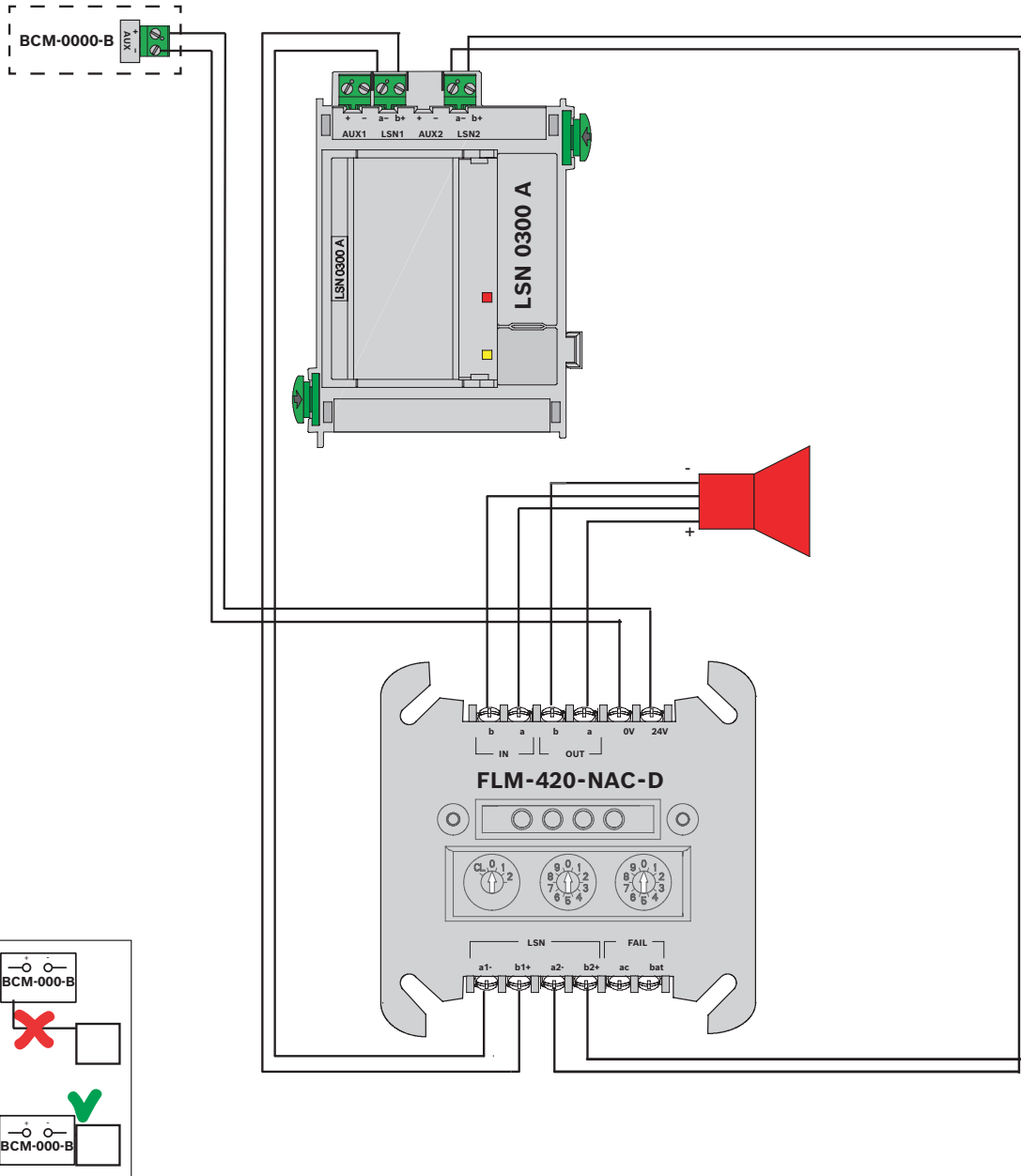
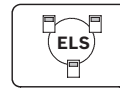
FLM-420-0812-S

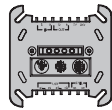
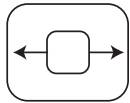




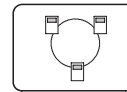


FLM-420-NAC-D/S

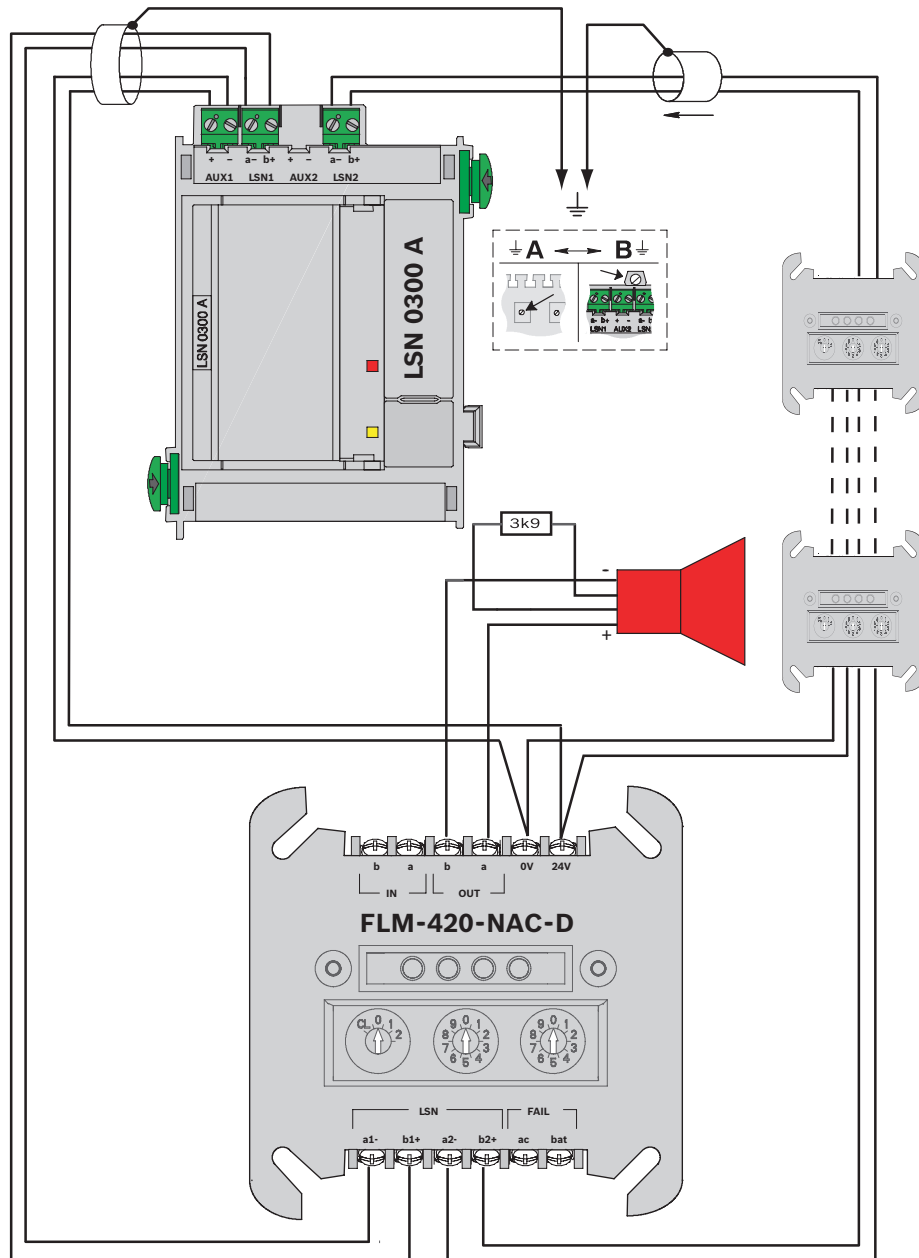


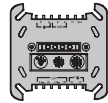
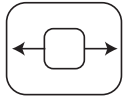


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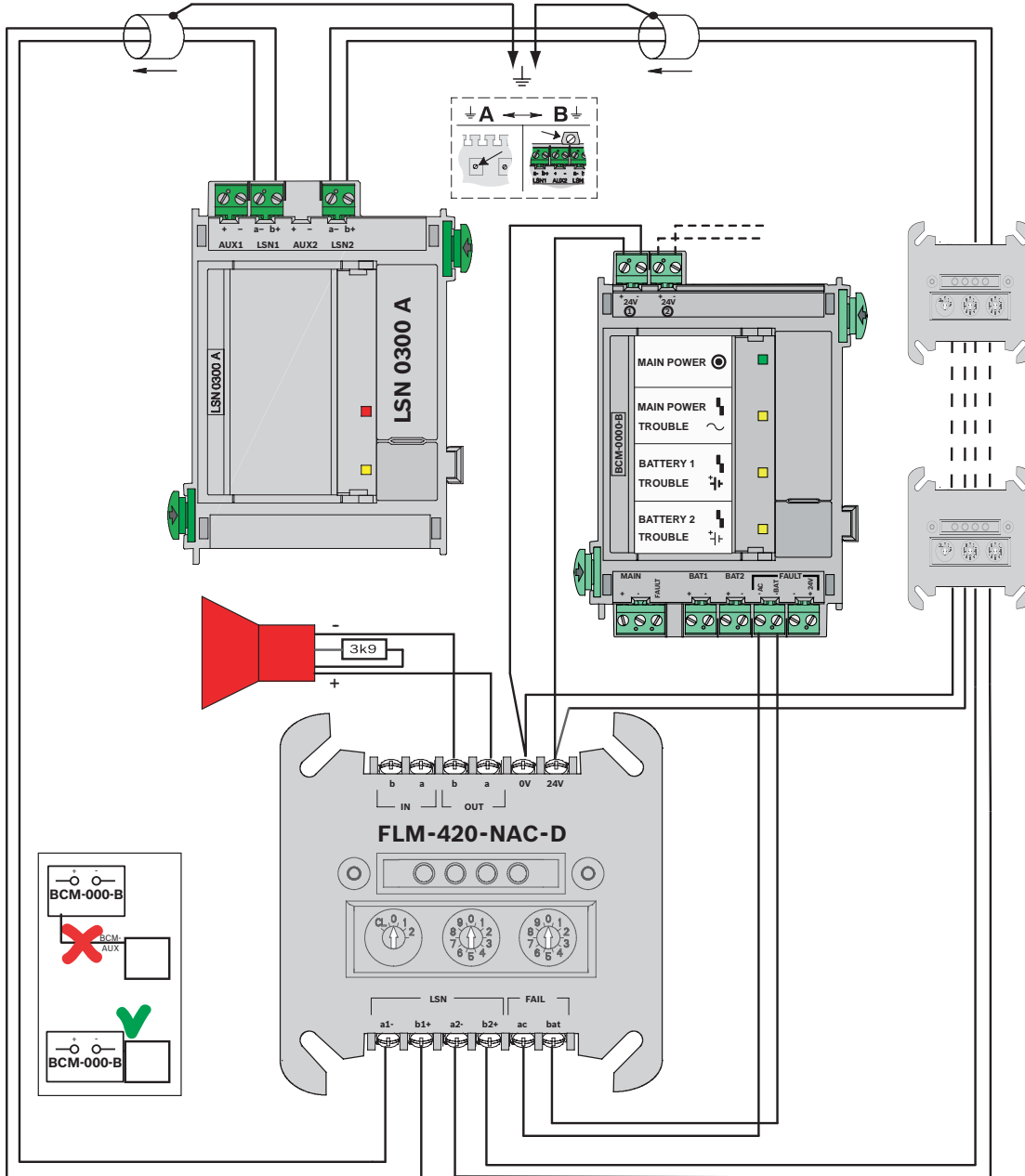
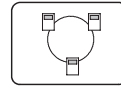


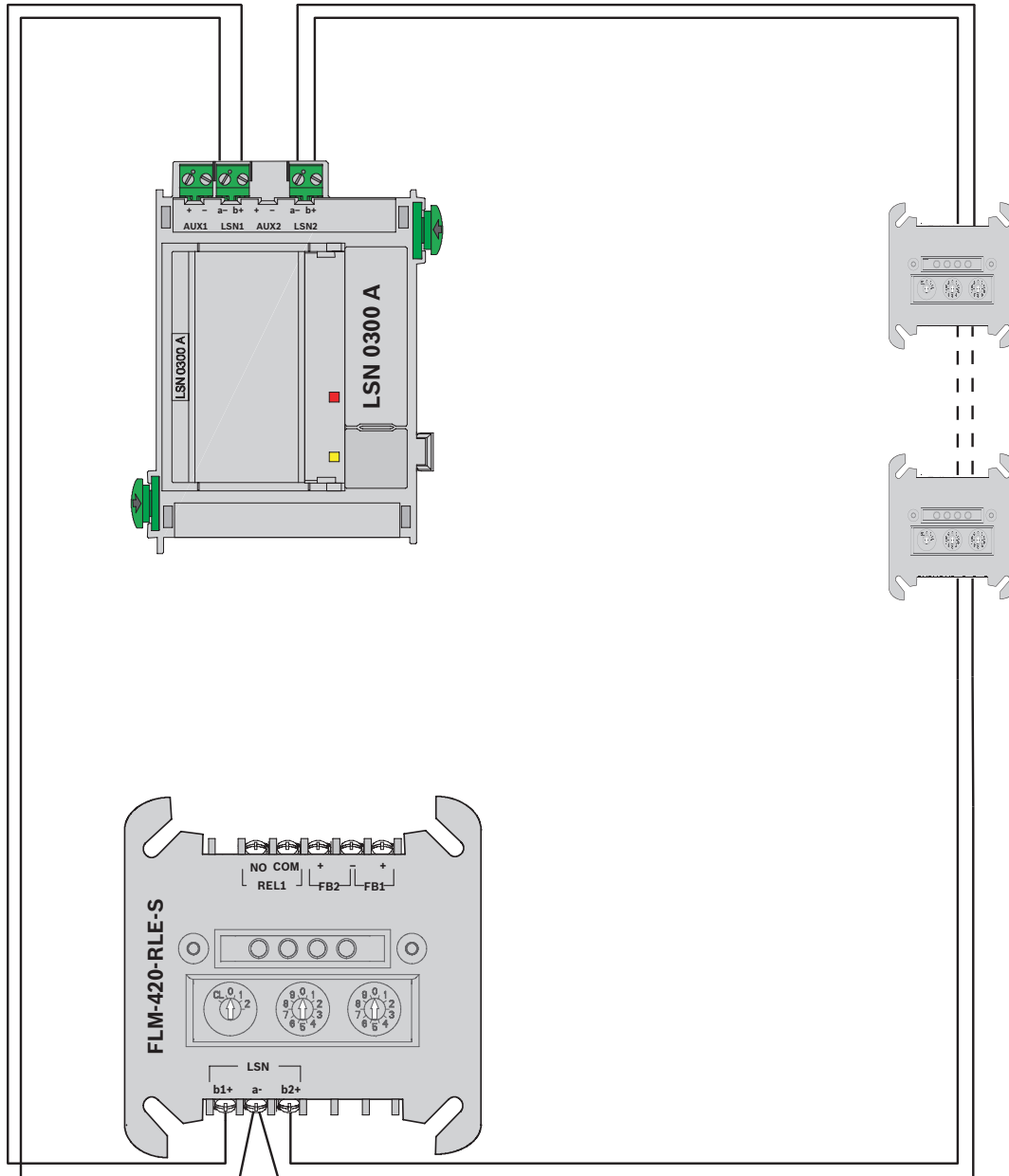
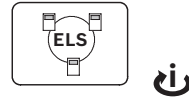
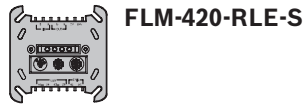
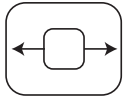
EN 54-2

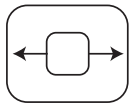




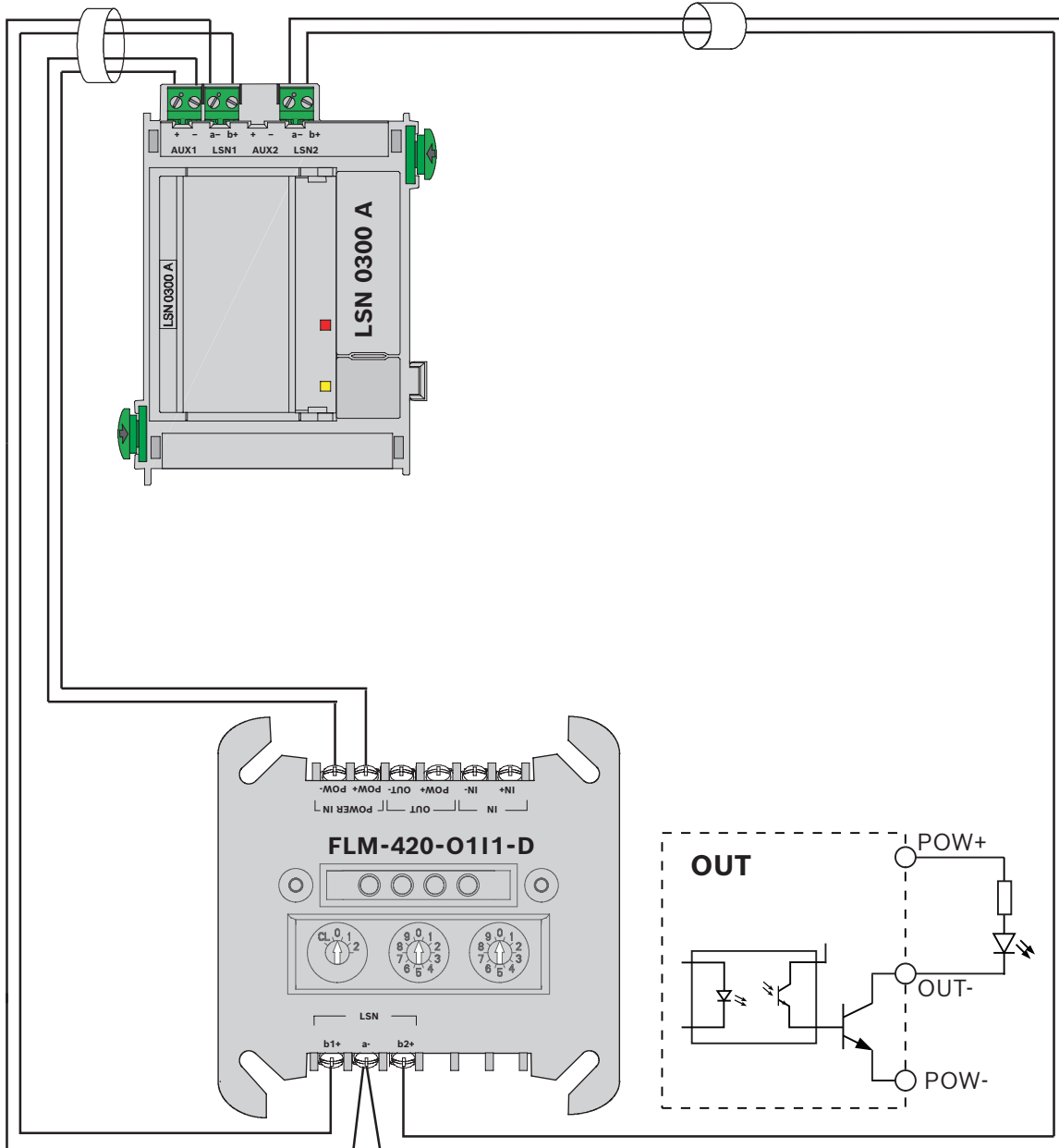
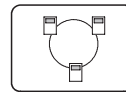
FLM-420-NAC-D/S

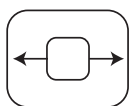




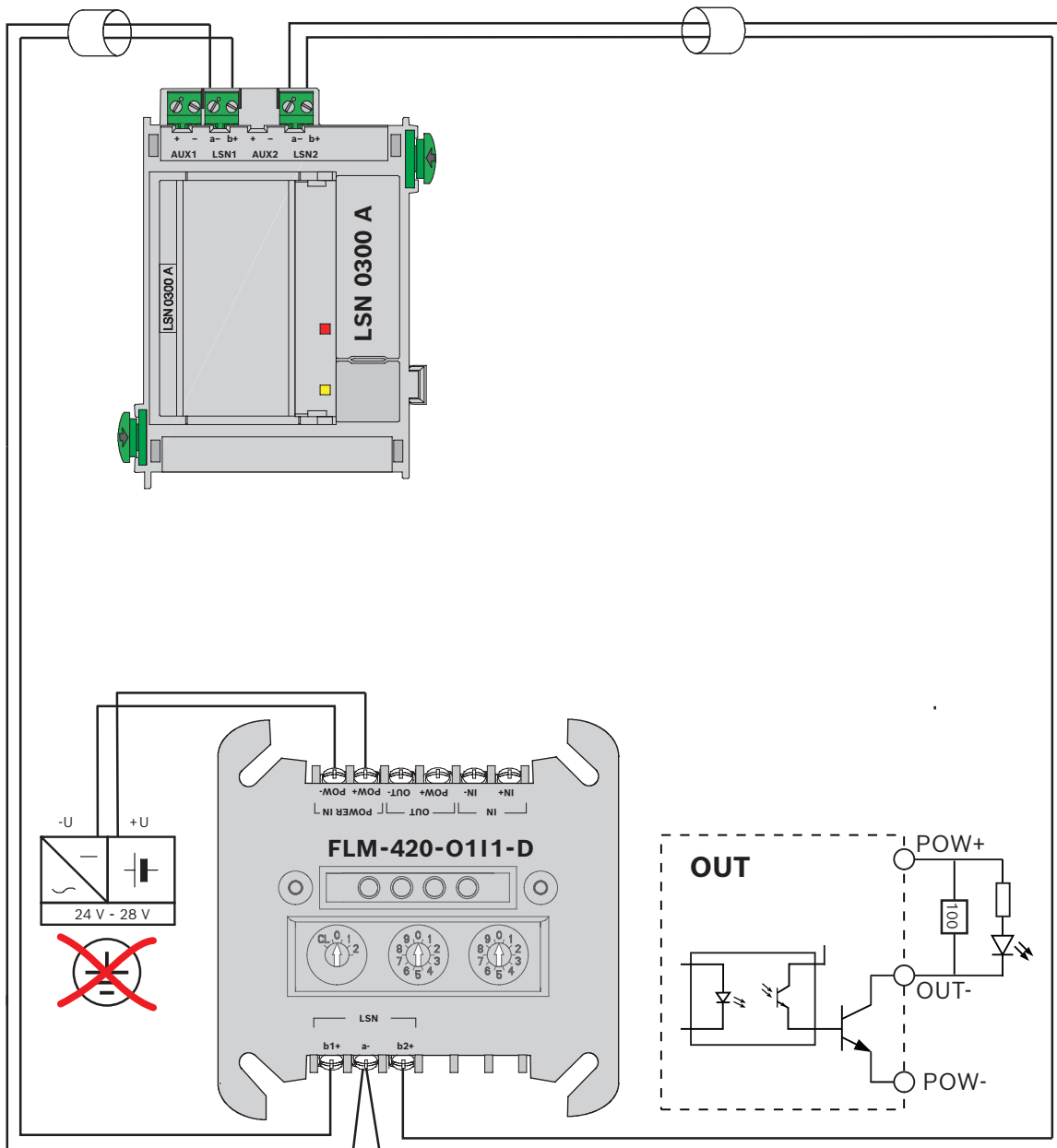
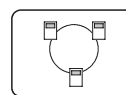


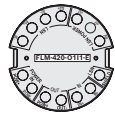
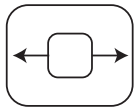
FLM-420-O111-D



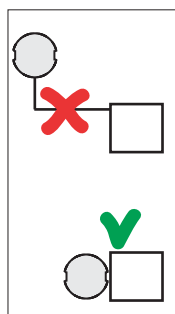
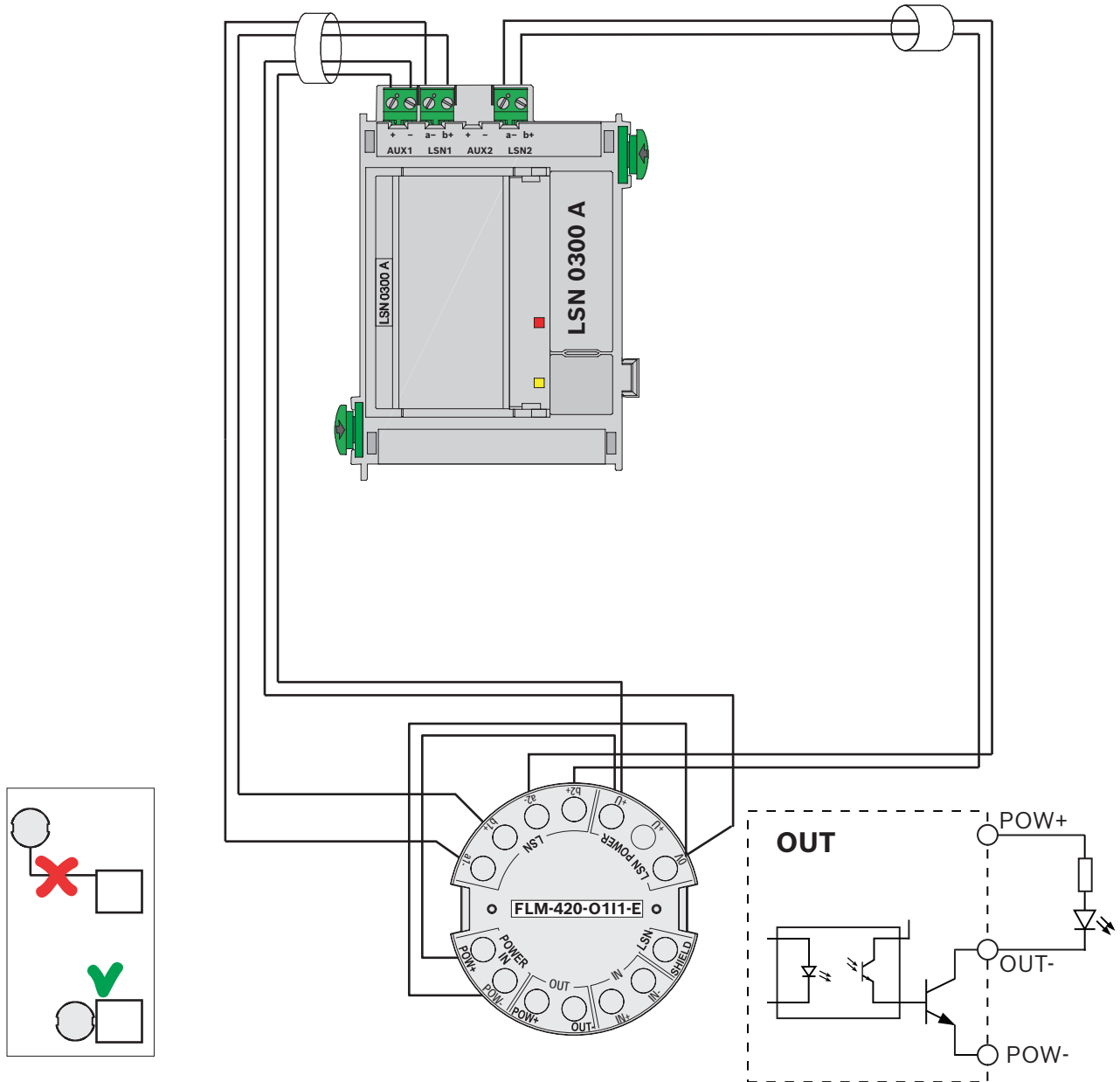
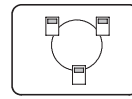


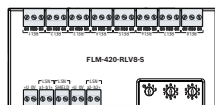
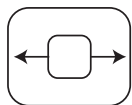
FLM-420-O111-D



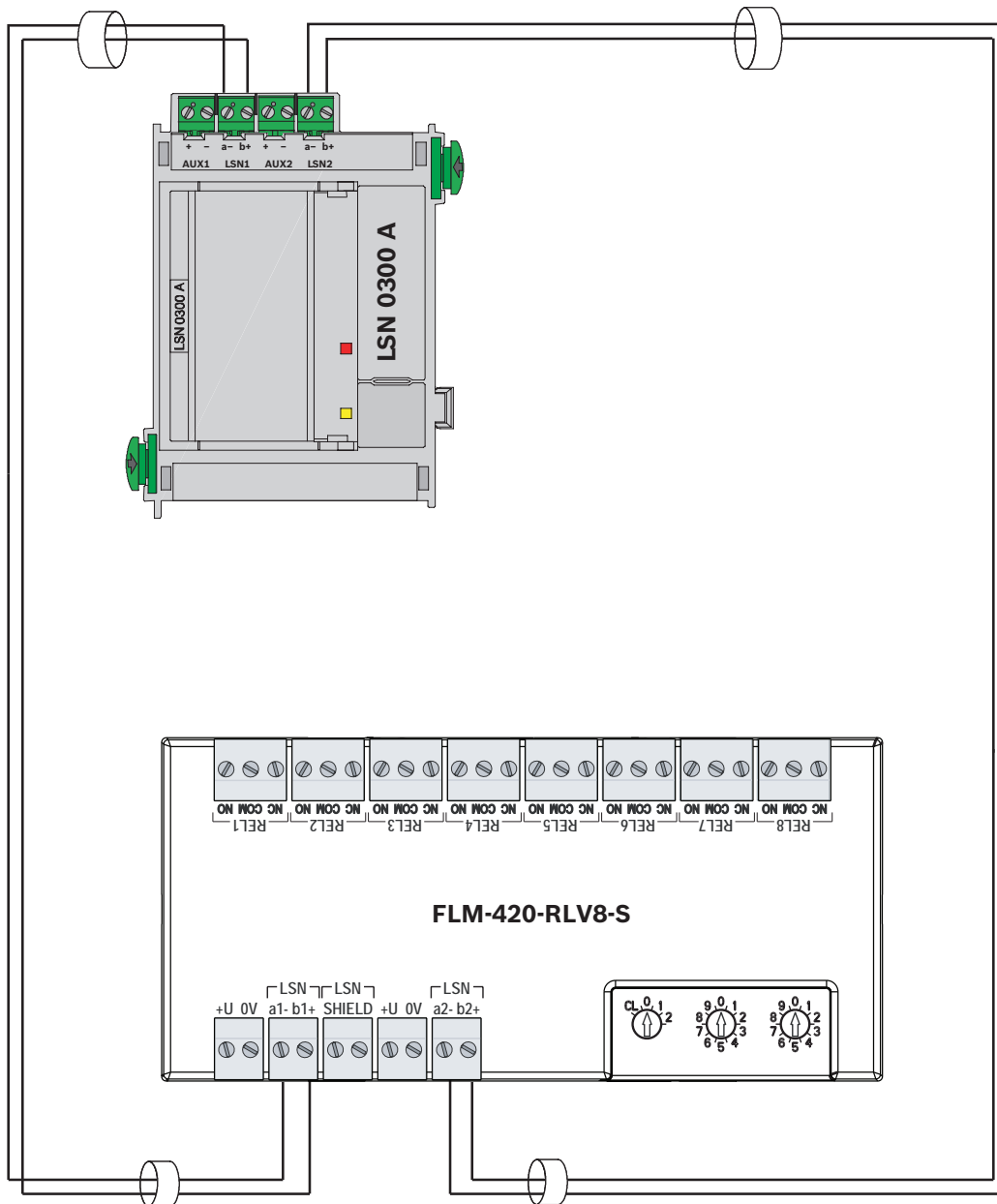
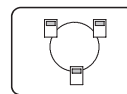


FLM-420-O111-E



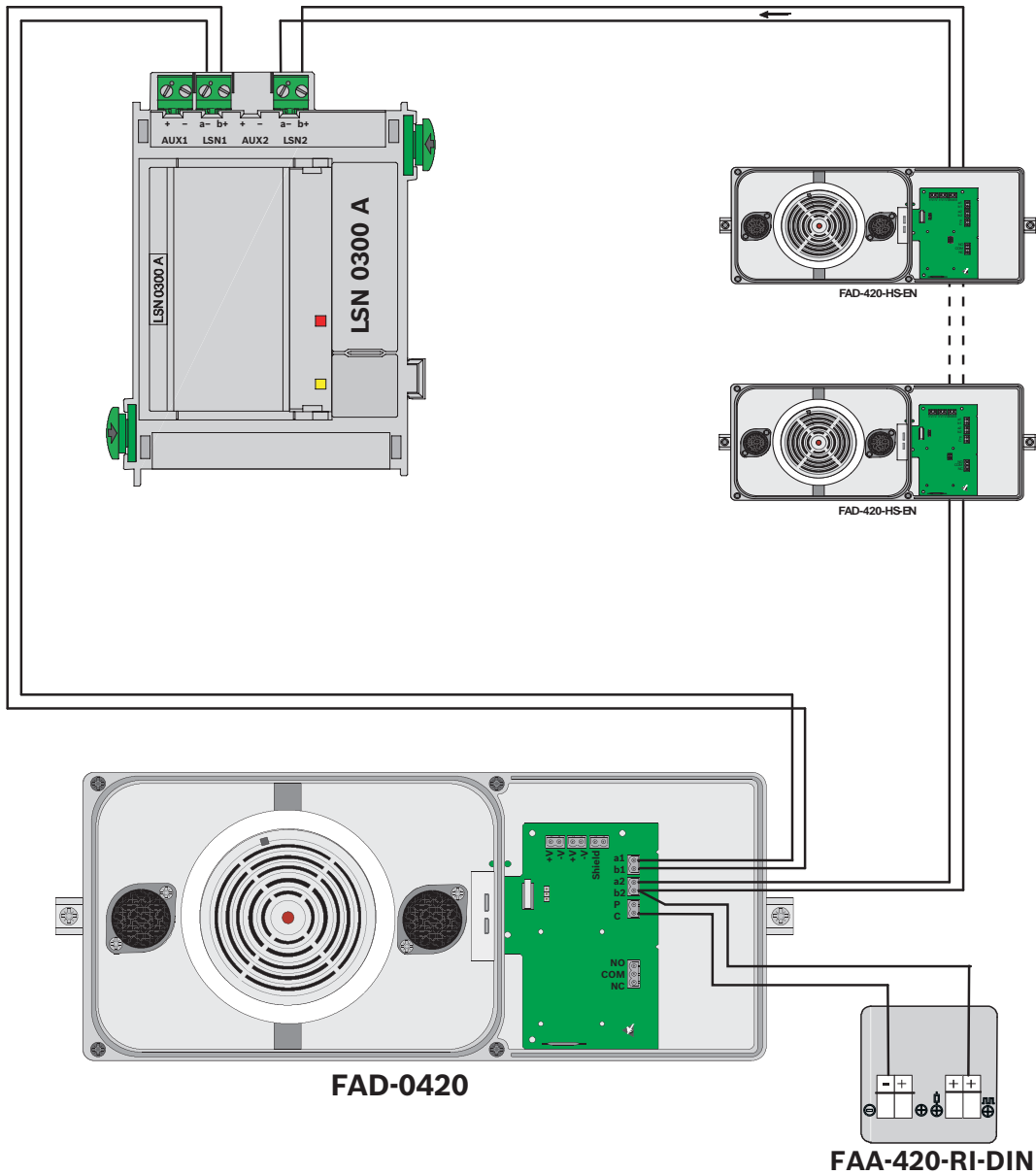


FLM-420-RLV8-S



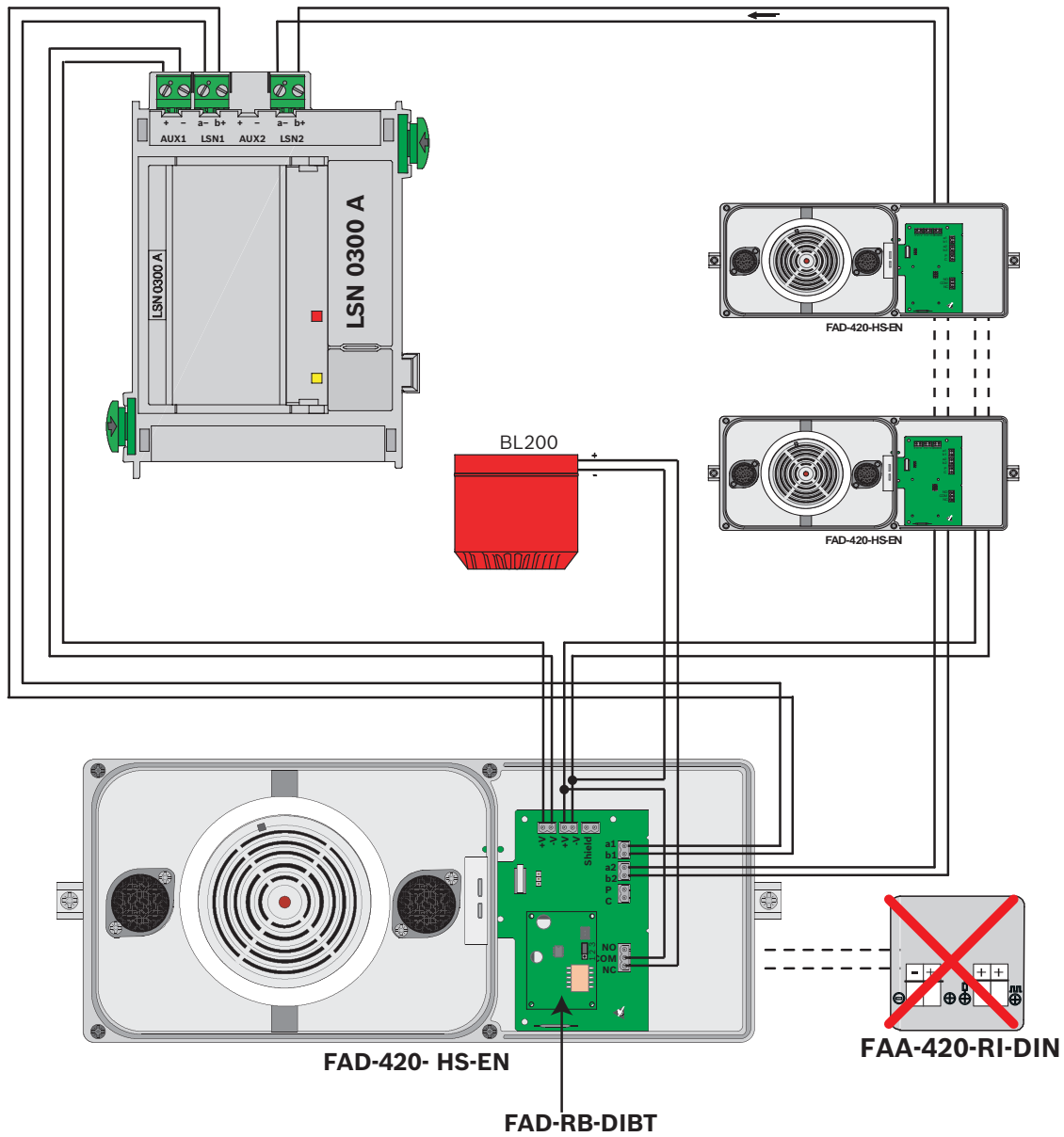


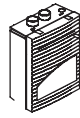
FAD-0420



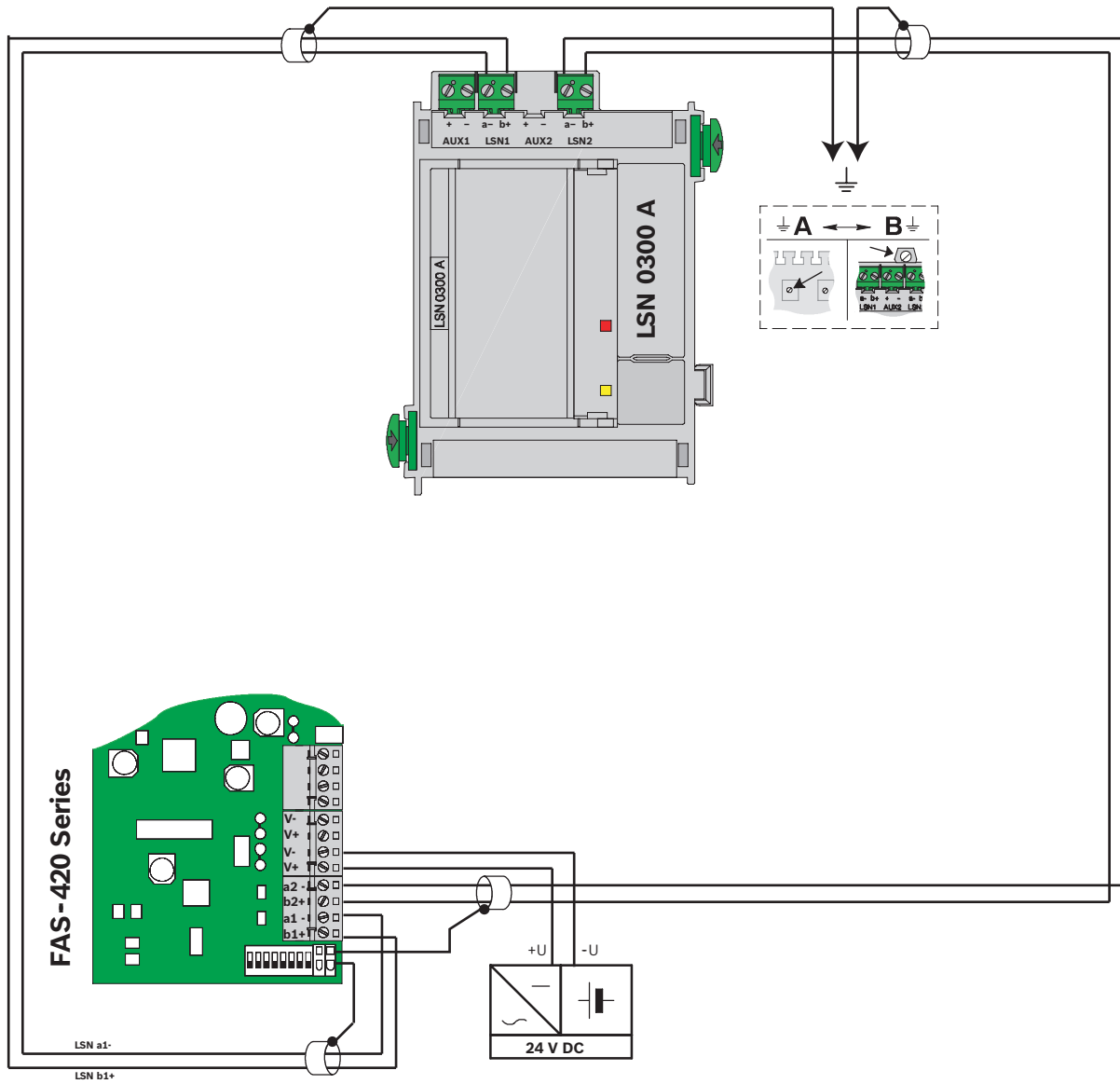


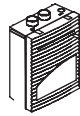
FAD-420-HS-EN



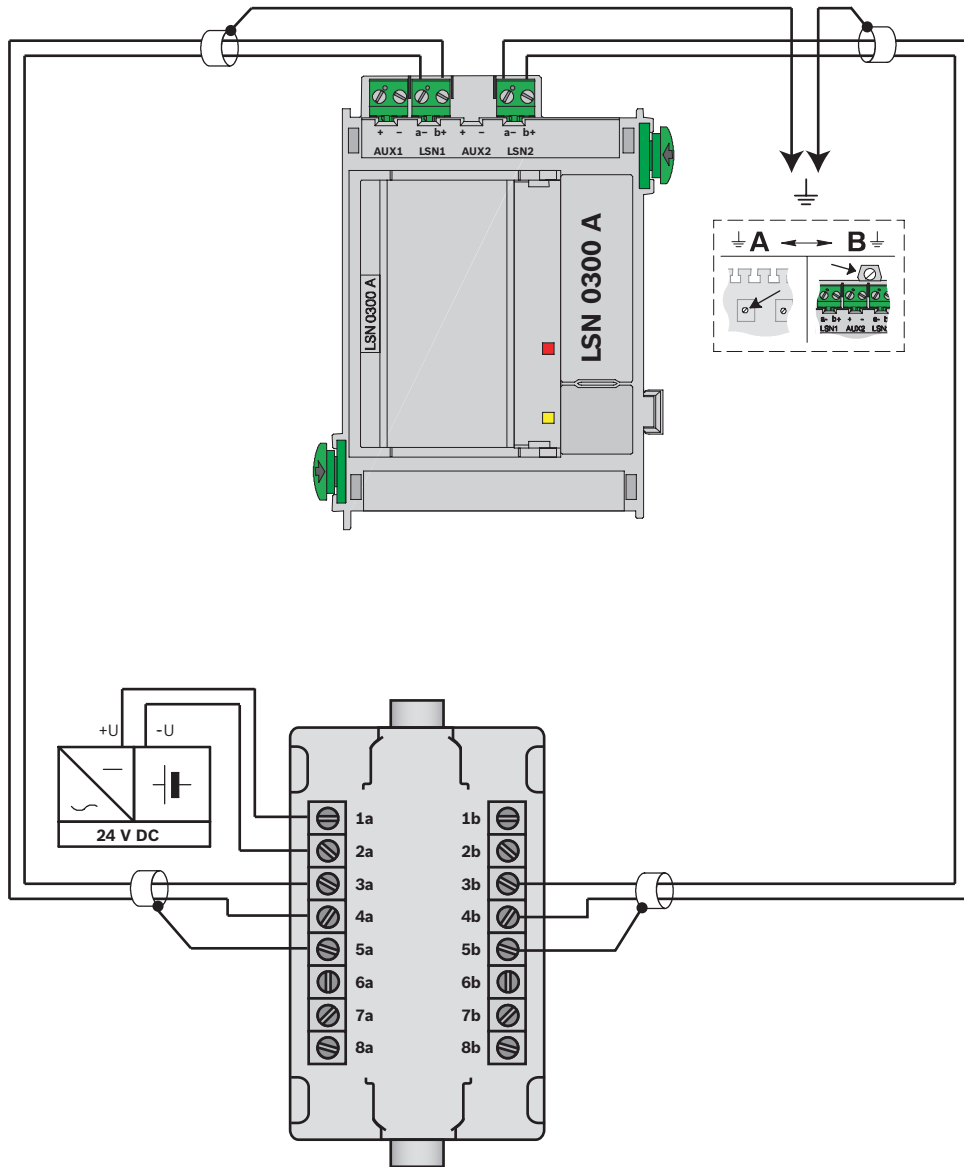


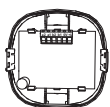
FAS-420 Series



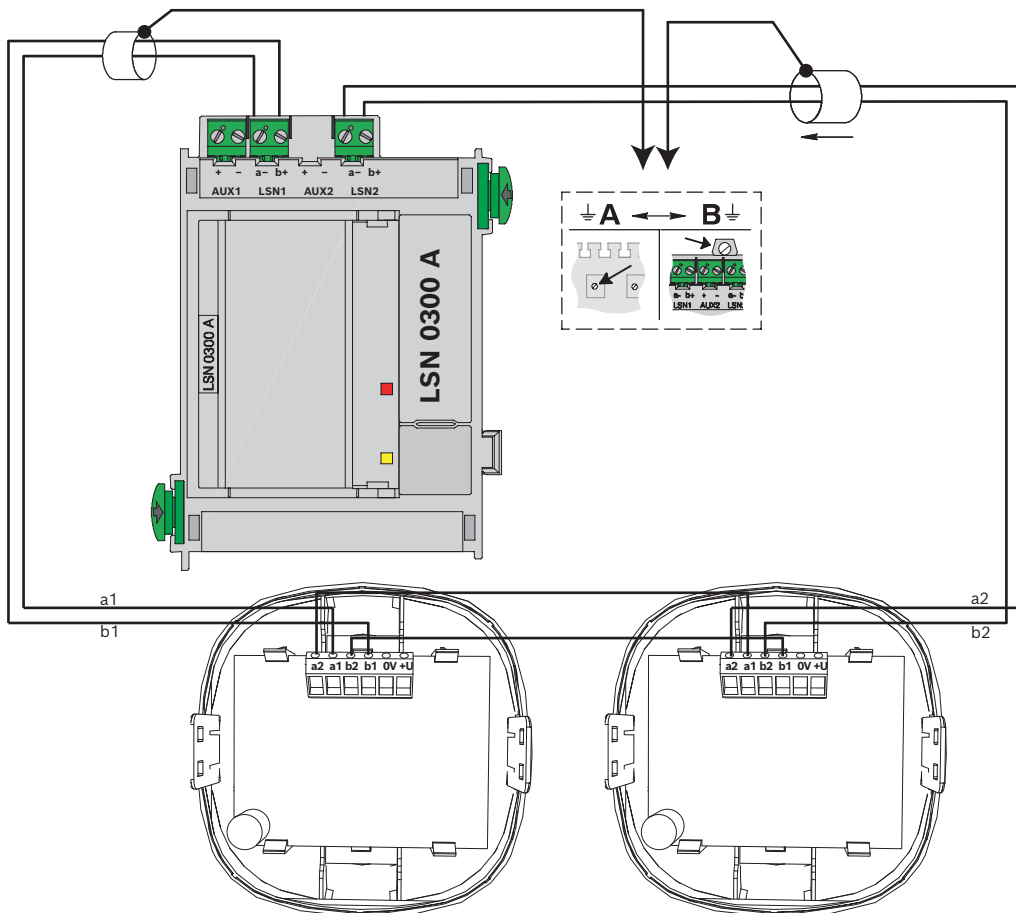
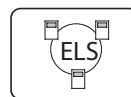


FAS-420-TM Series





FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A

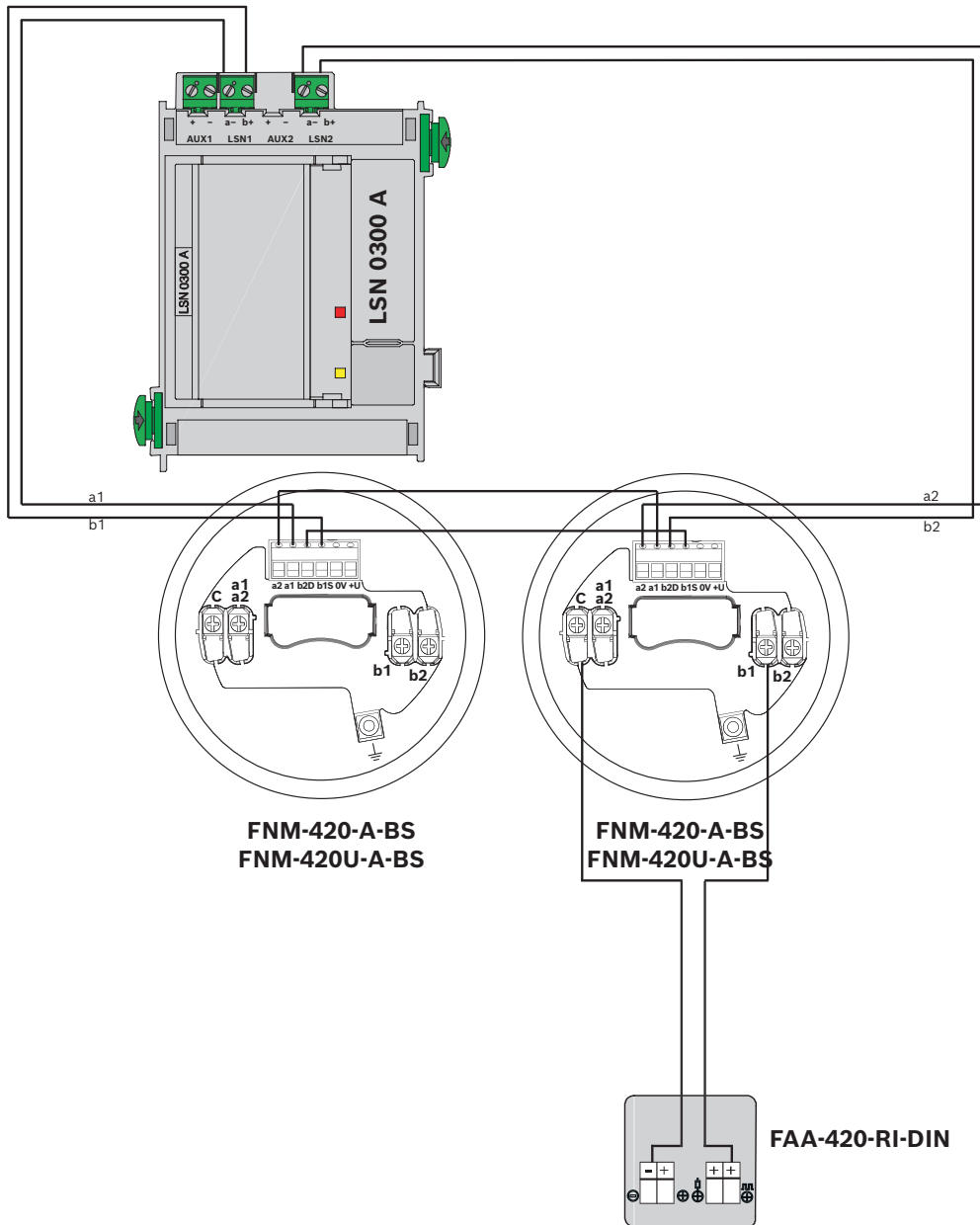
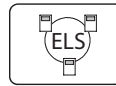


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



FNM-420-A-BS
FNM-420U-A-BS



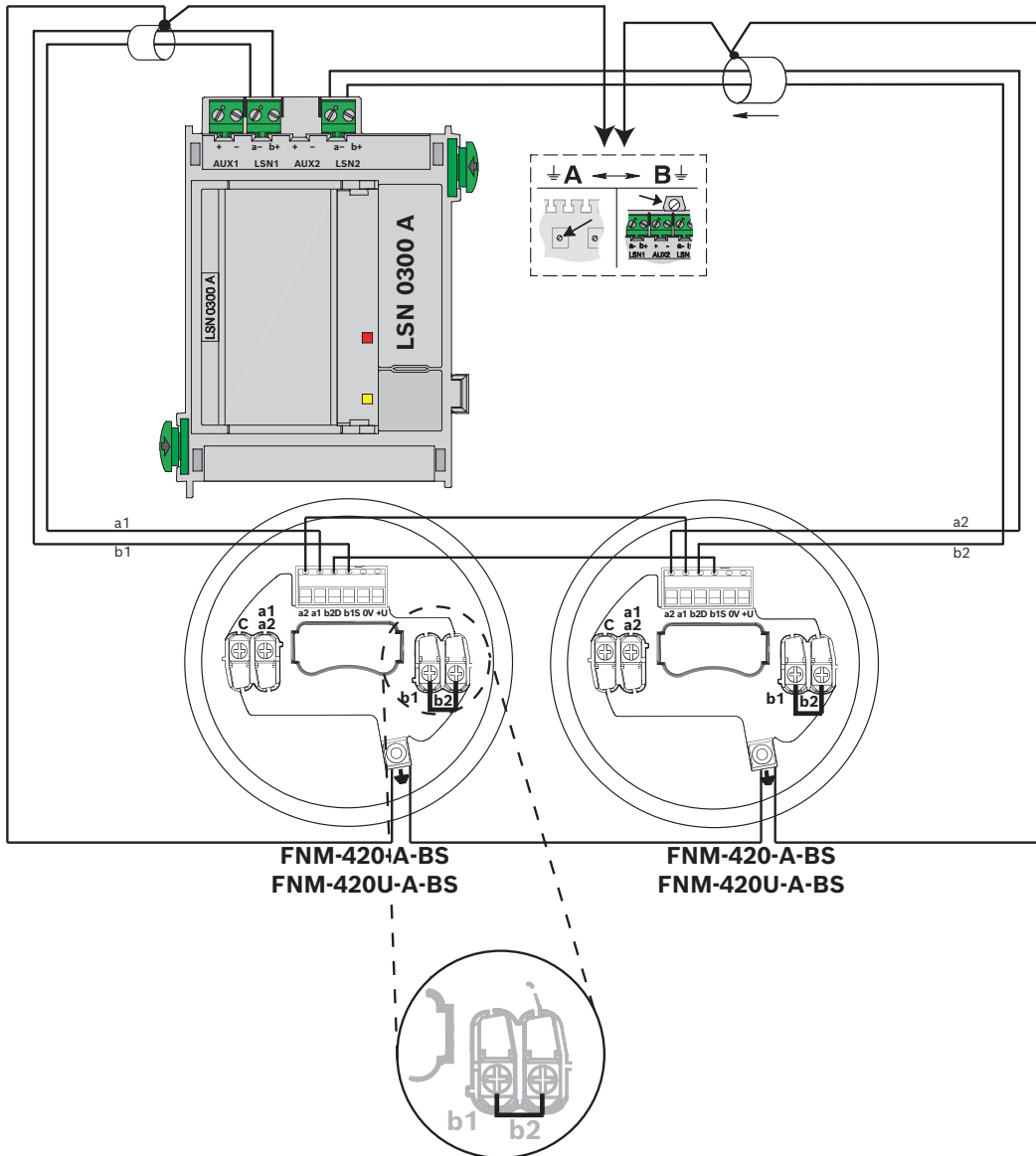
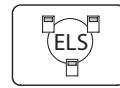
FNM-420-A-BS
FNM-420U-A-BS

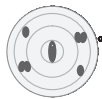
FNM-420-A-BS
FNM-420U-A-BS

FAA-420-RI-DIN

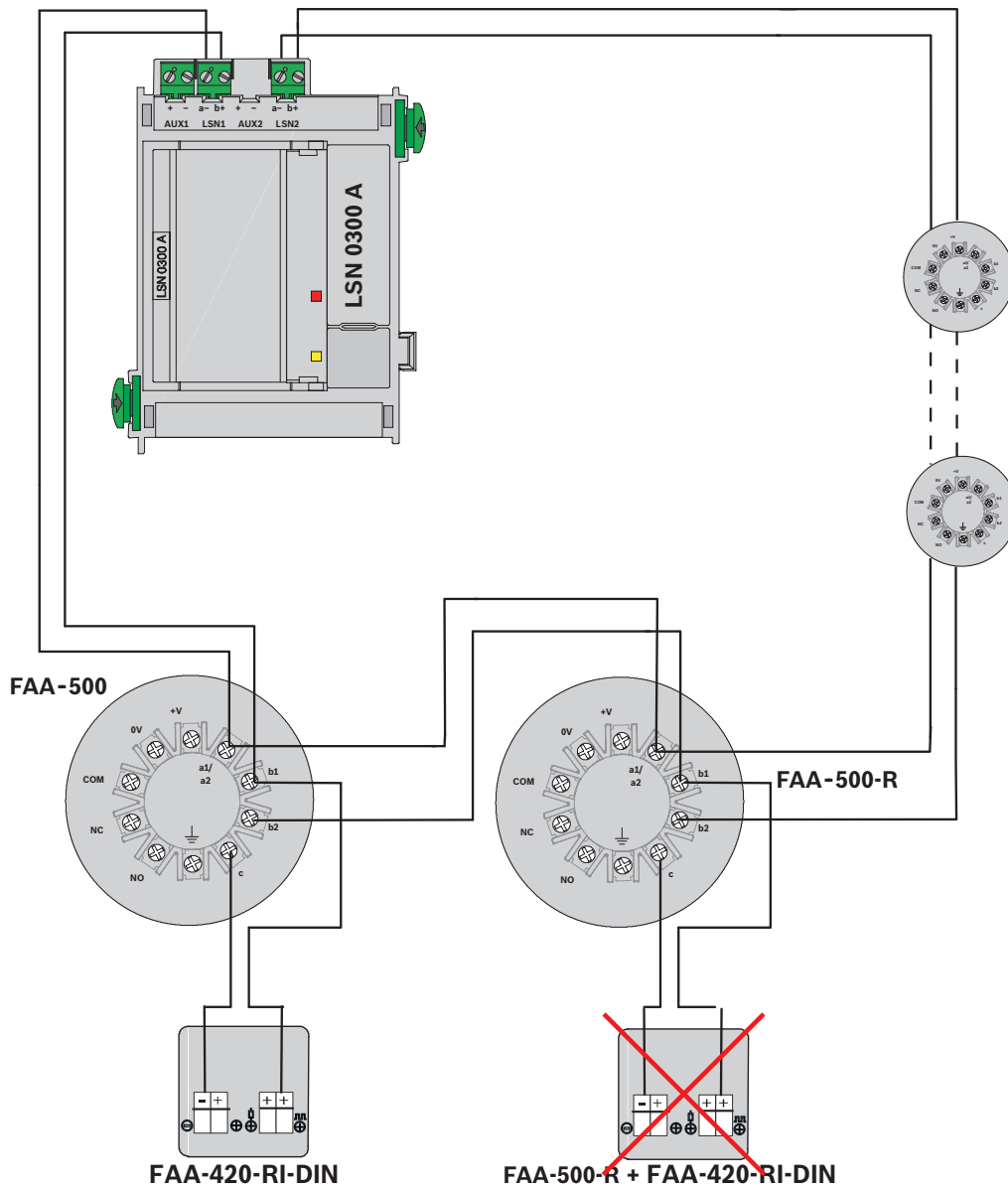
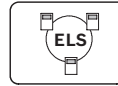


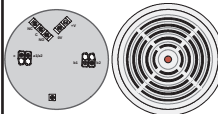
FNM-420-A-BS
FNM-420U-A-BS



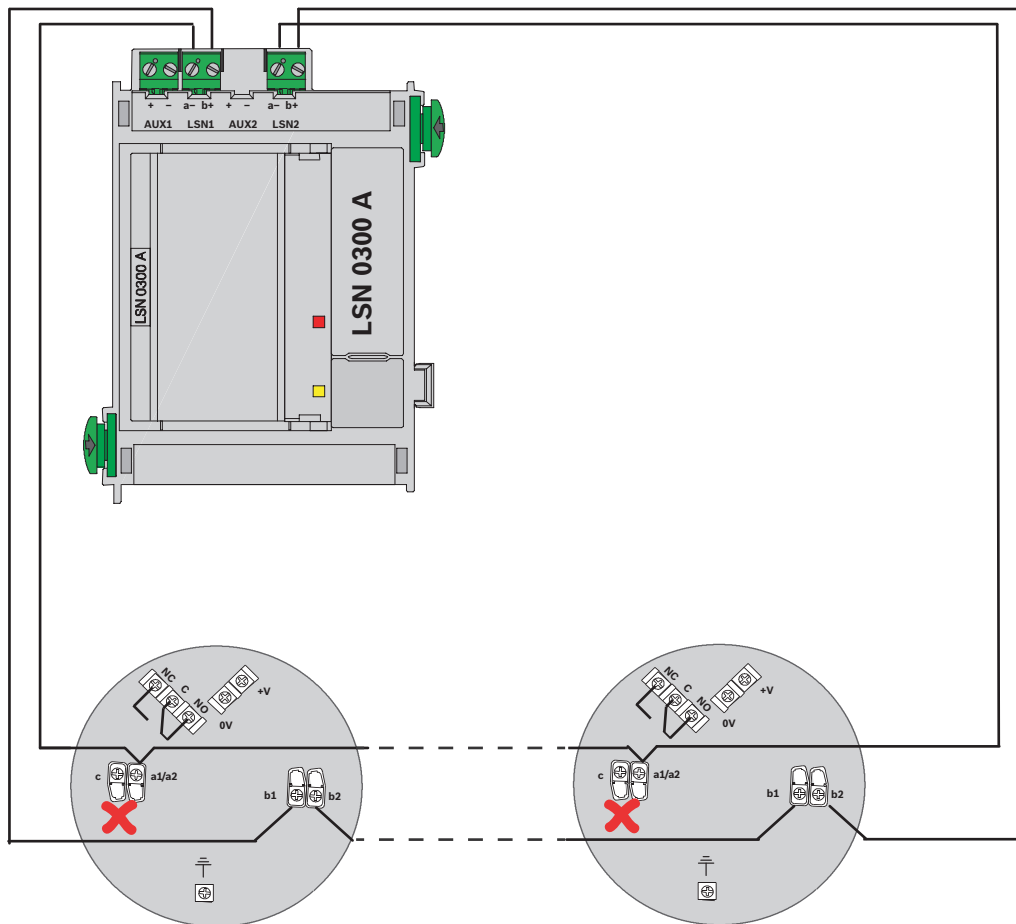
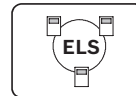


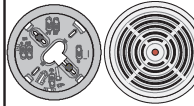
FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P



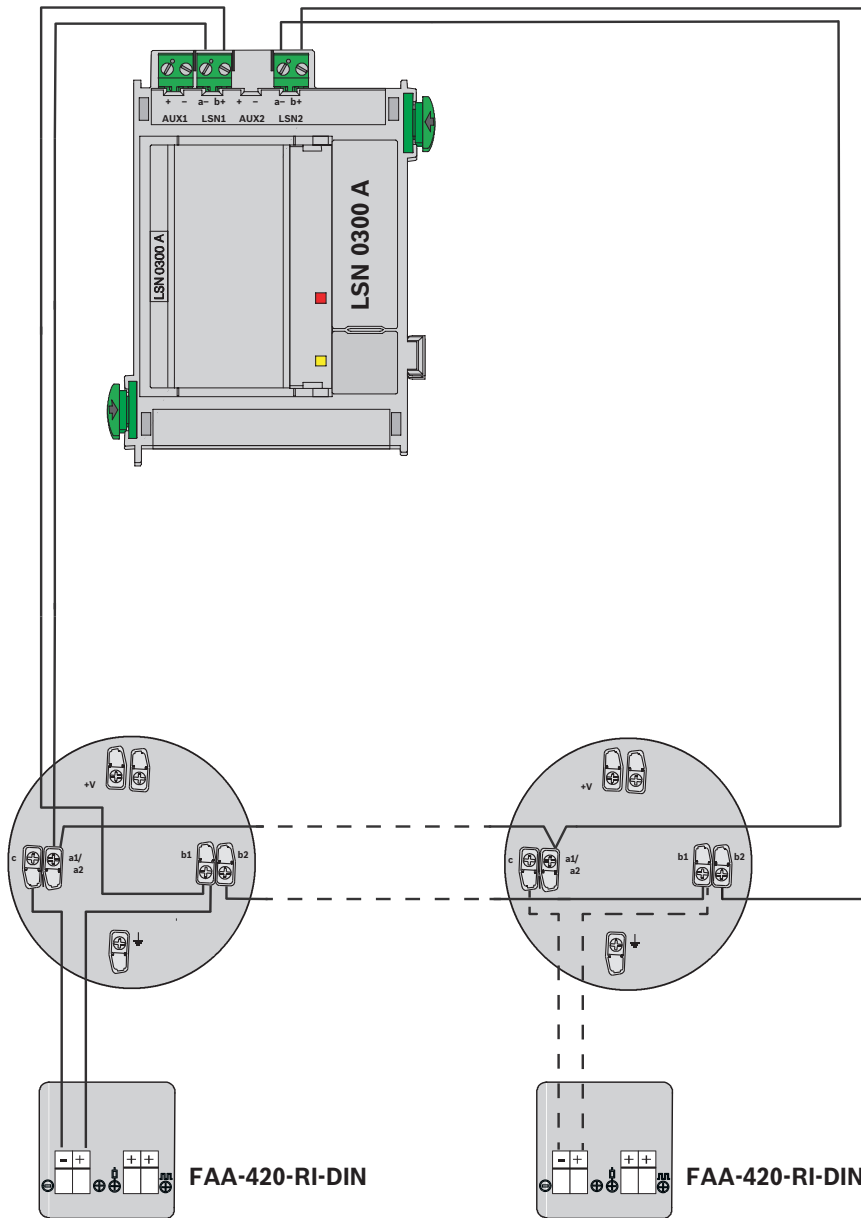
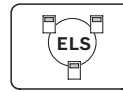


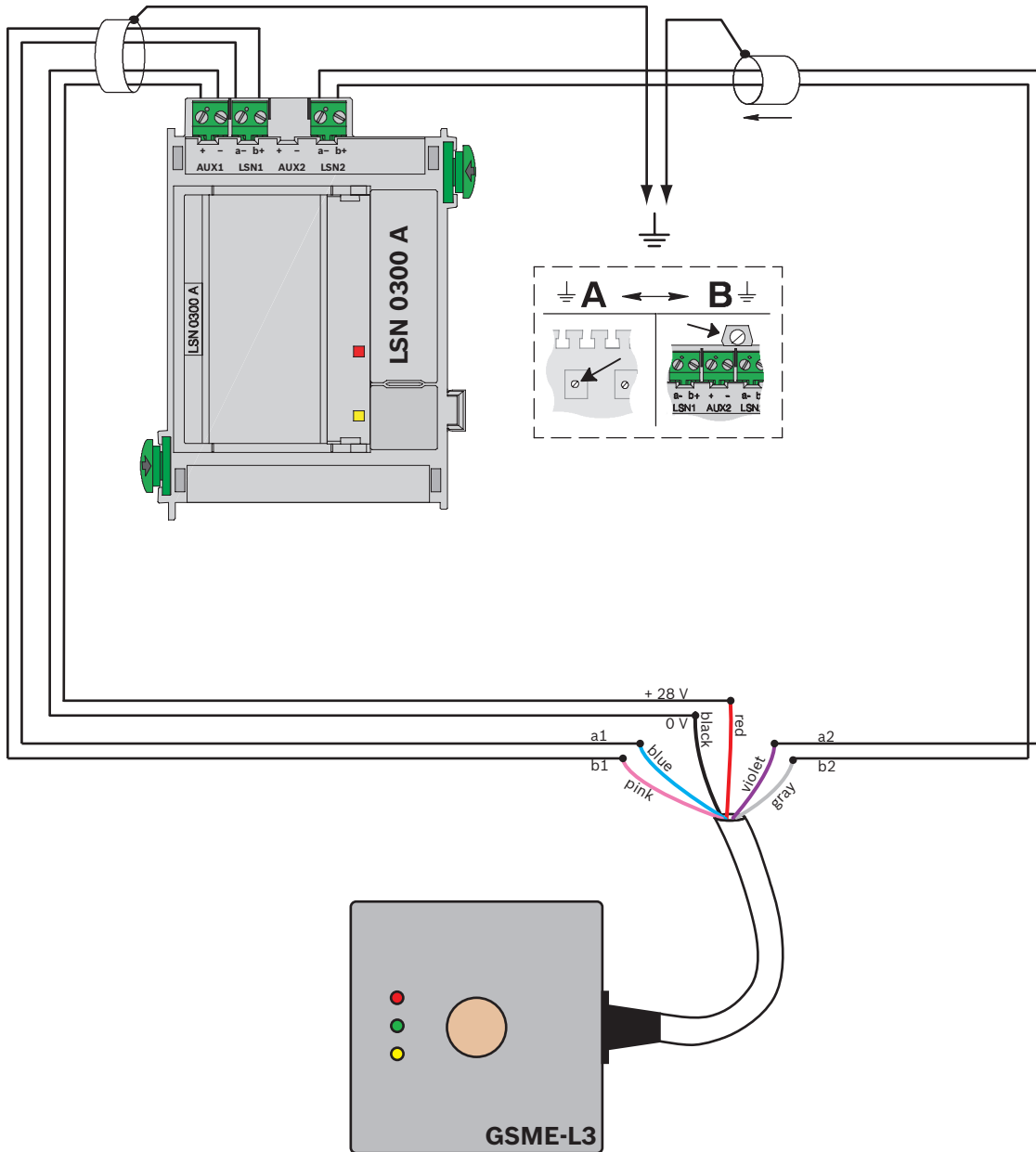
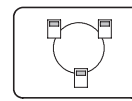
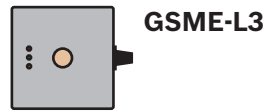
FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R

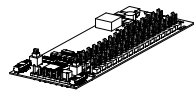




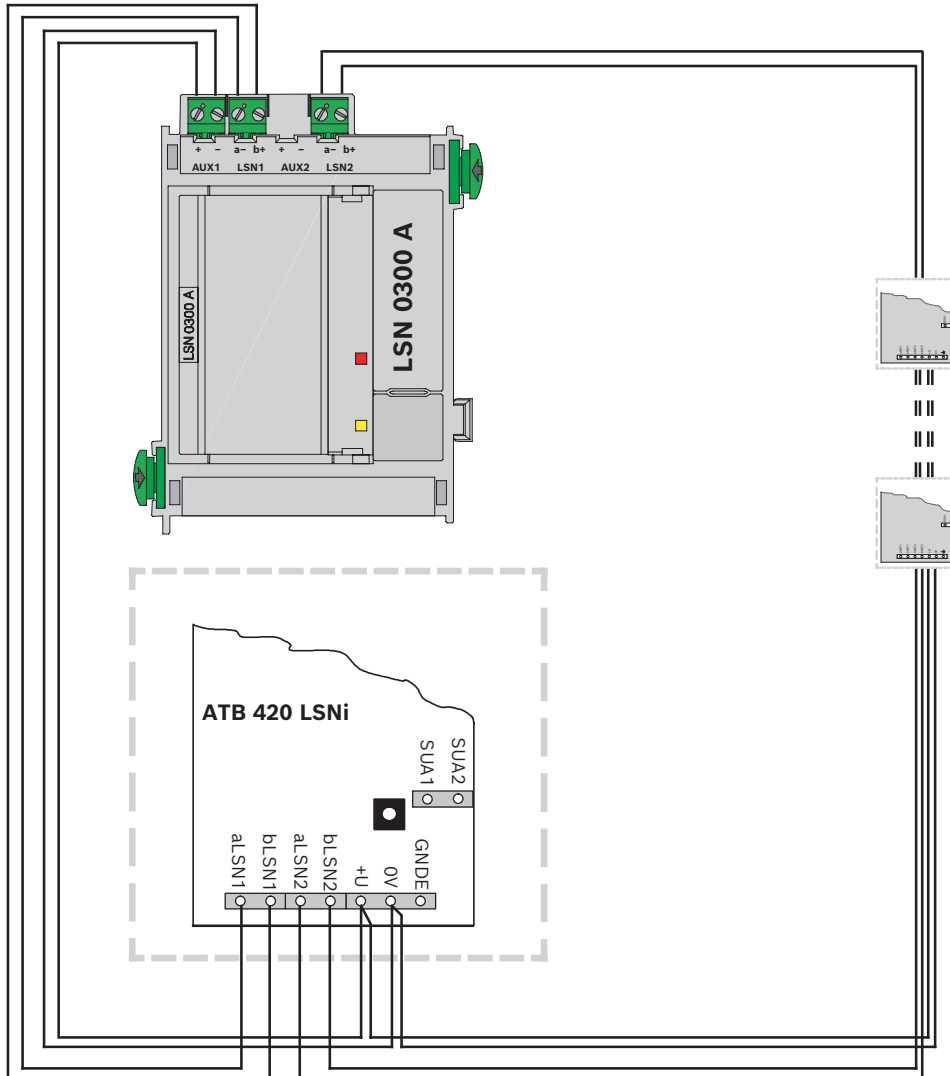
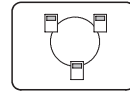
MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R





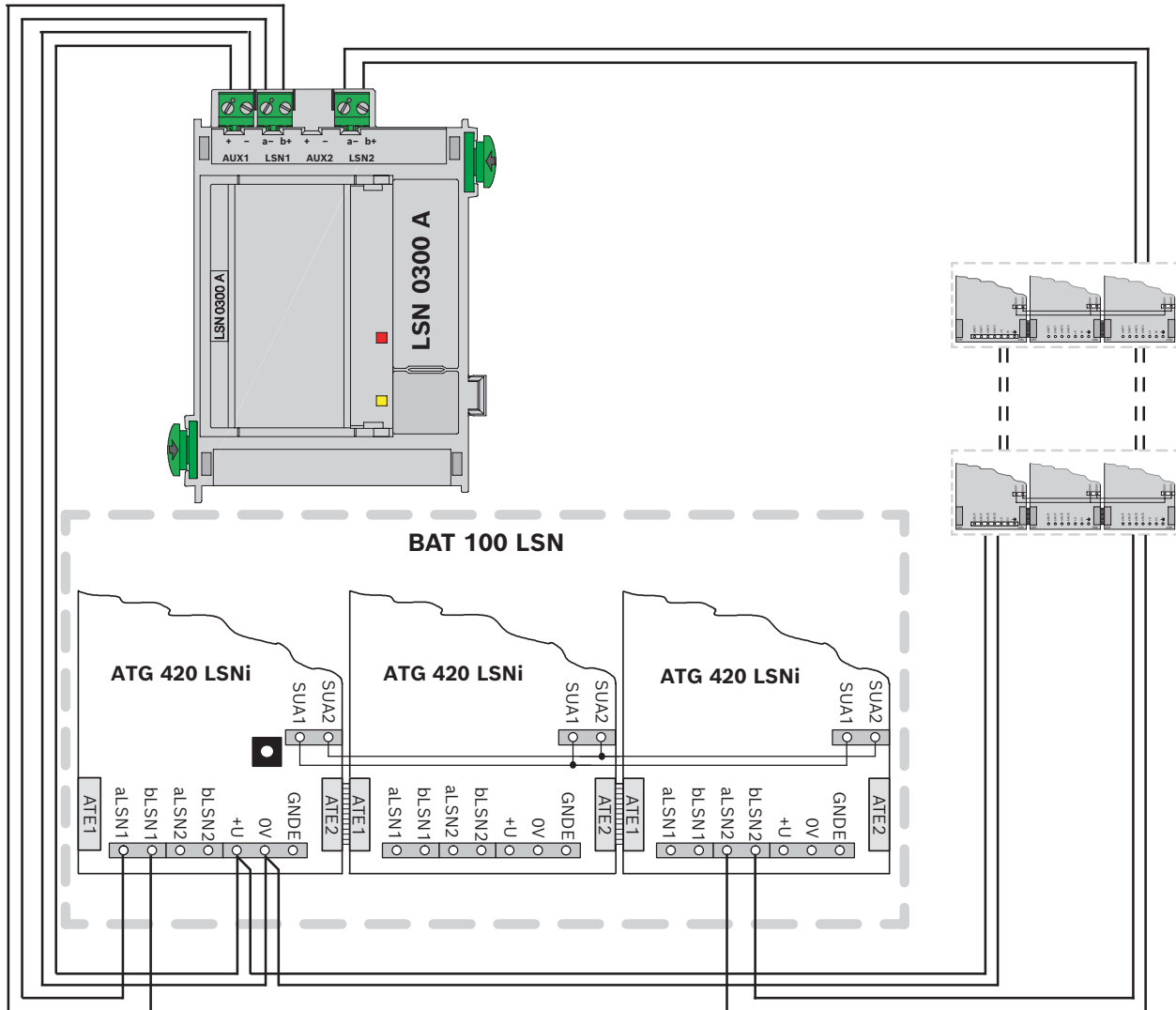
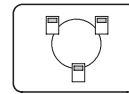


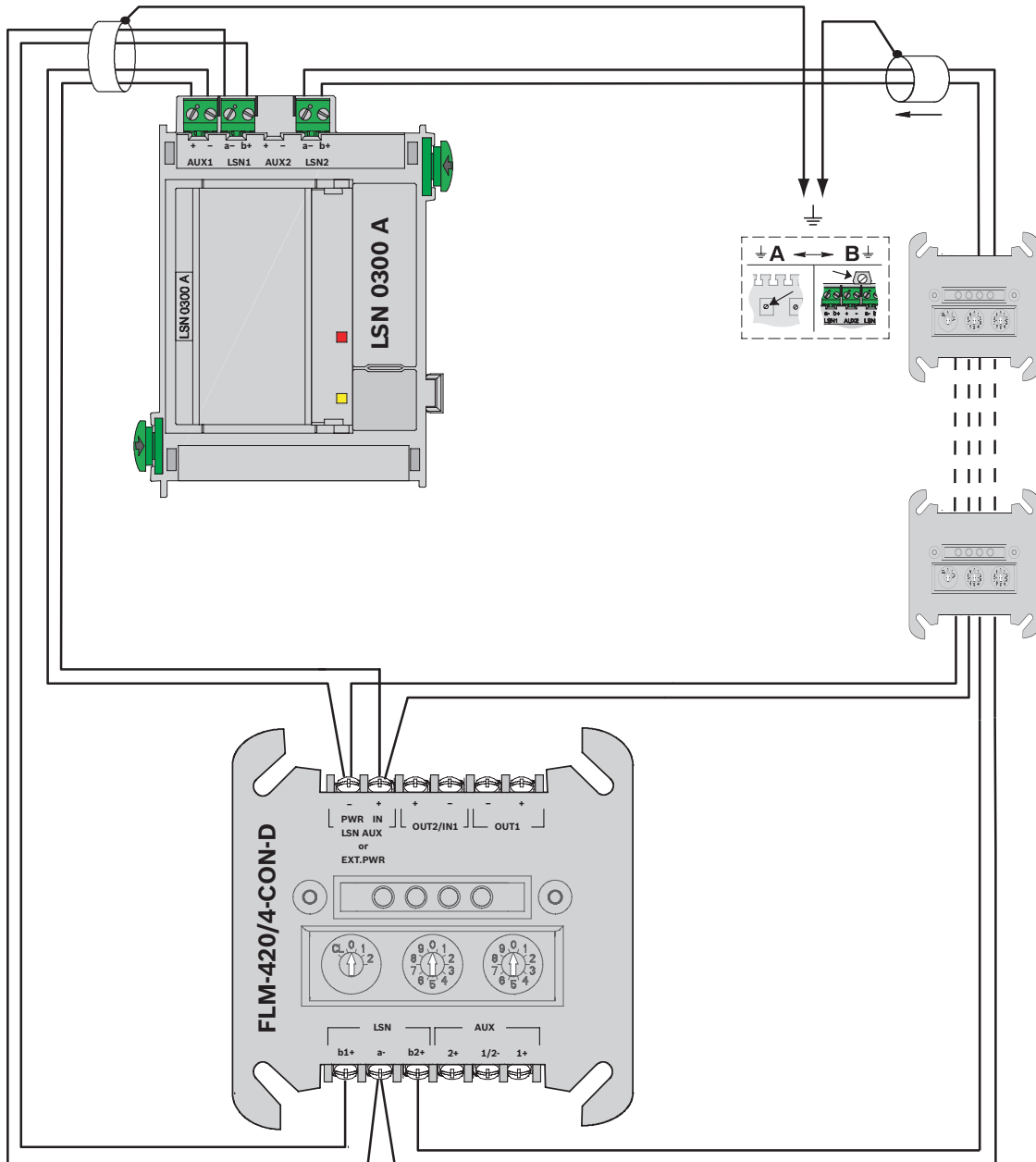
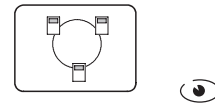
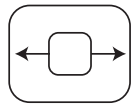
ATB 420 LSNi





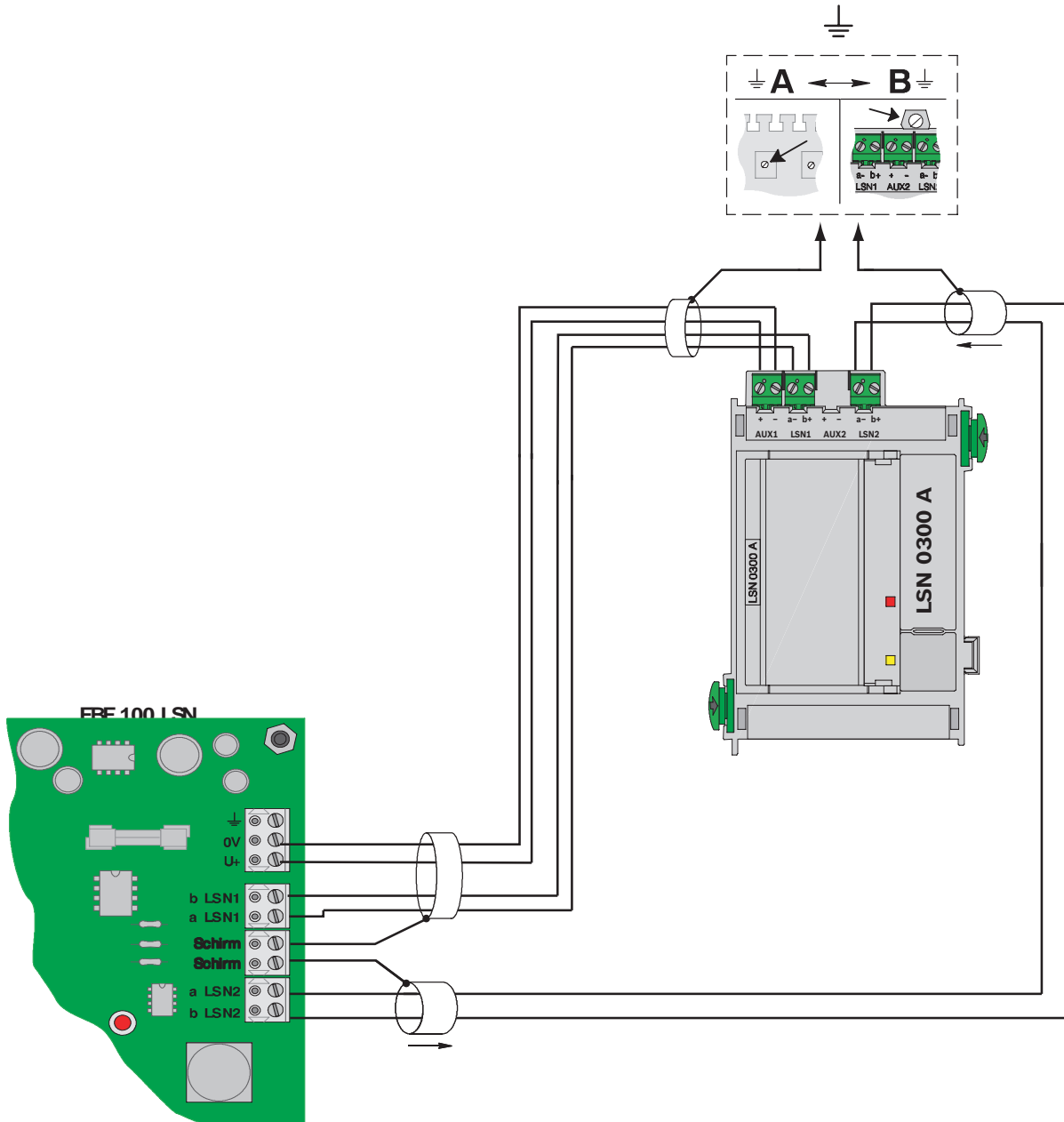
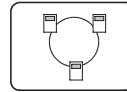
BAT 100 LSN
ATG 420 LSNi

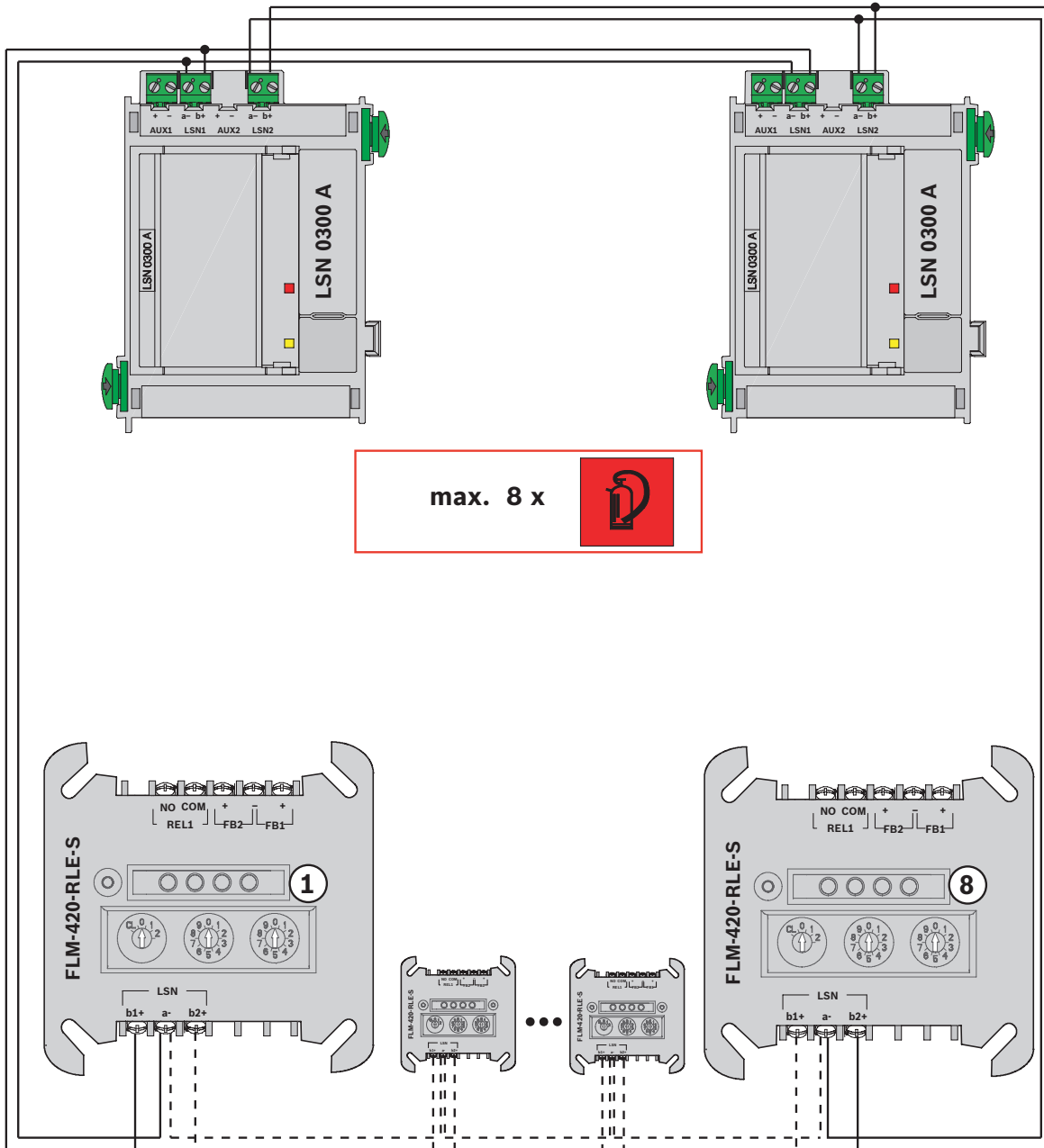
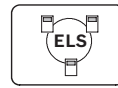
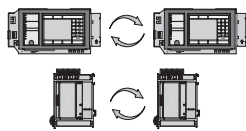






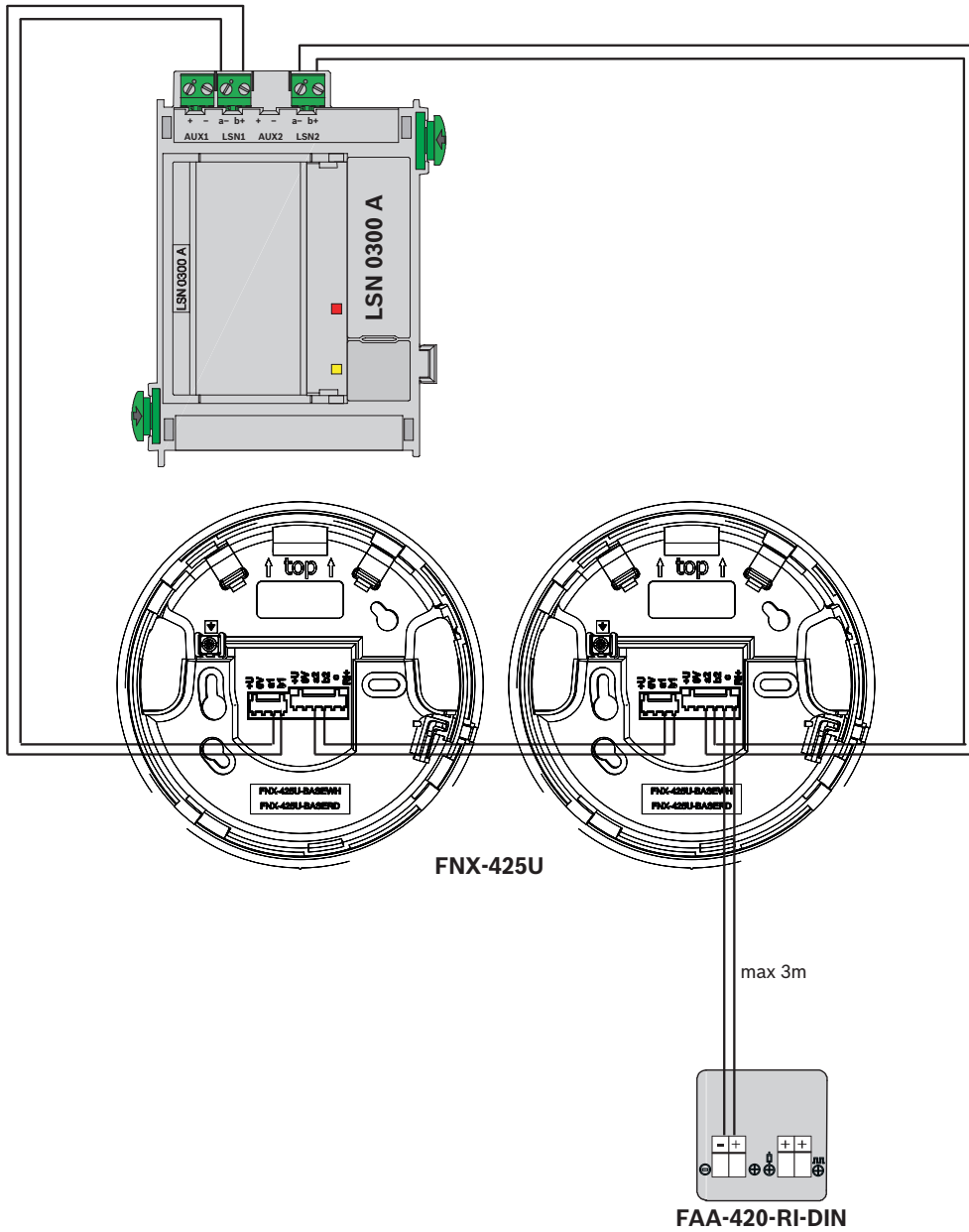
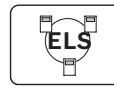
FBF 100 LSN







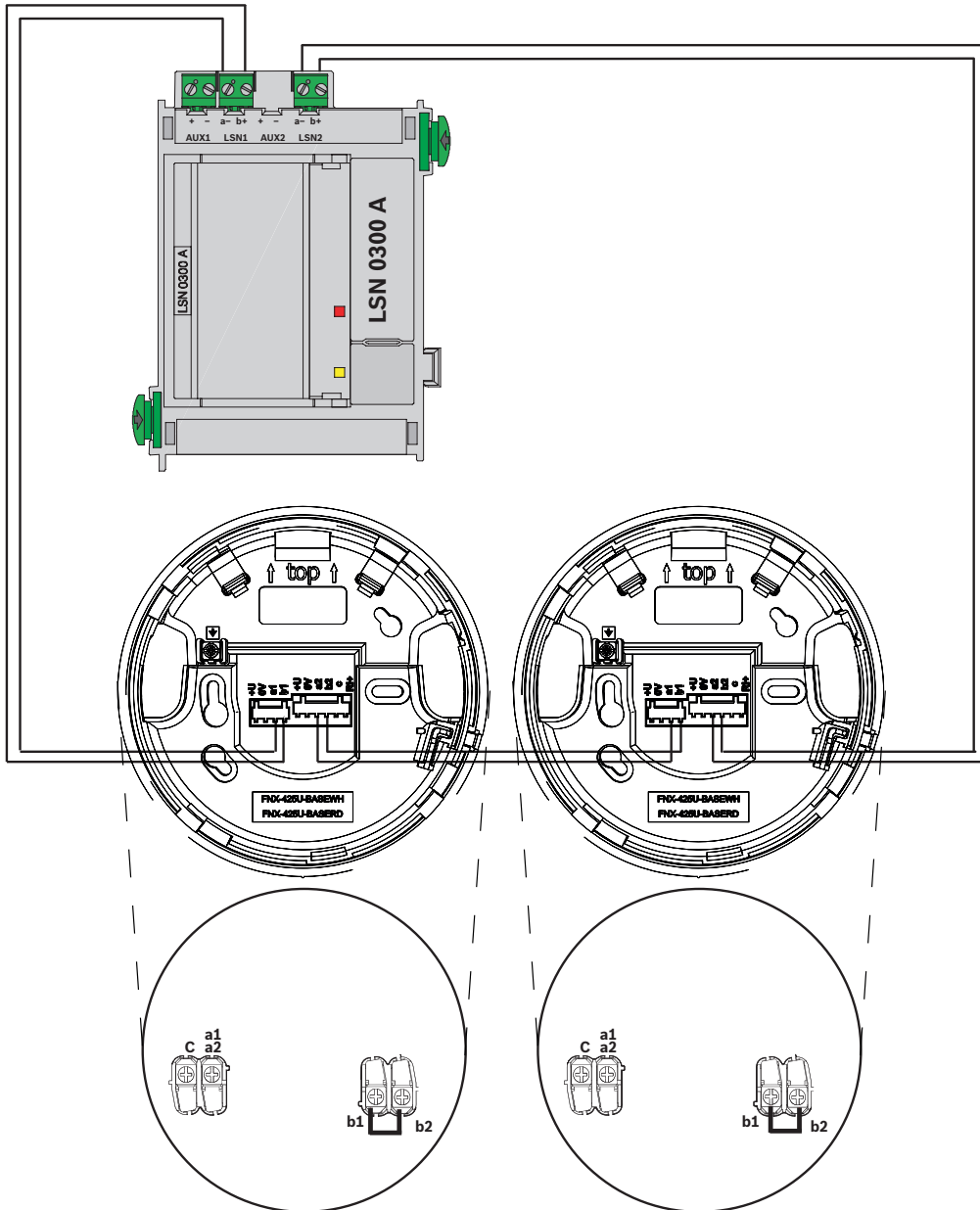
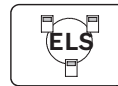
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

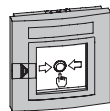




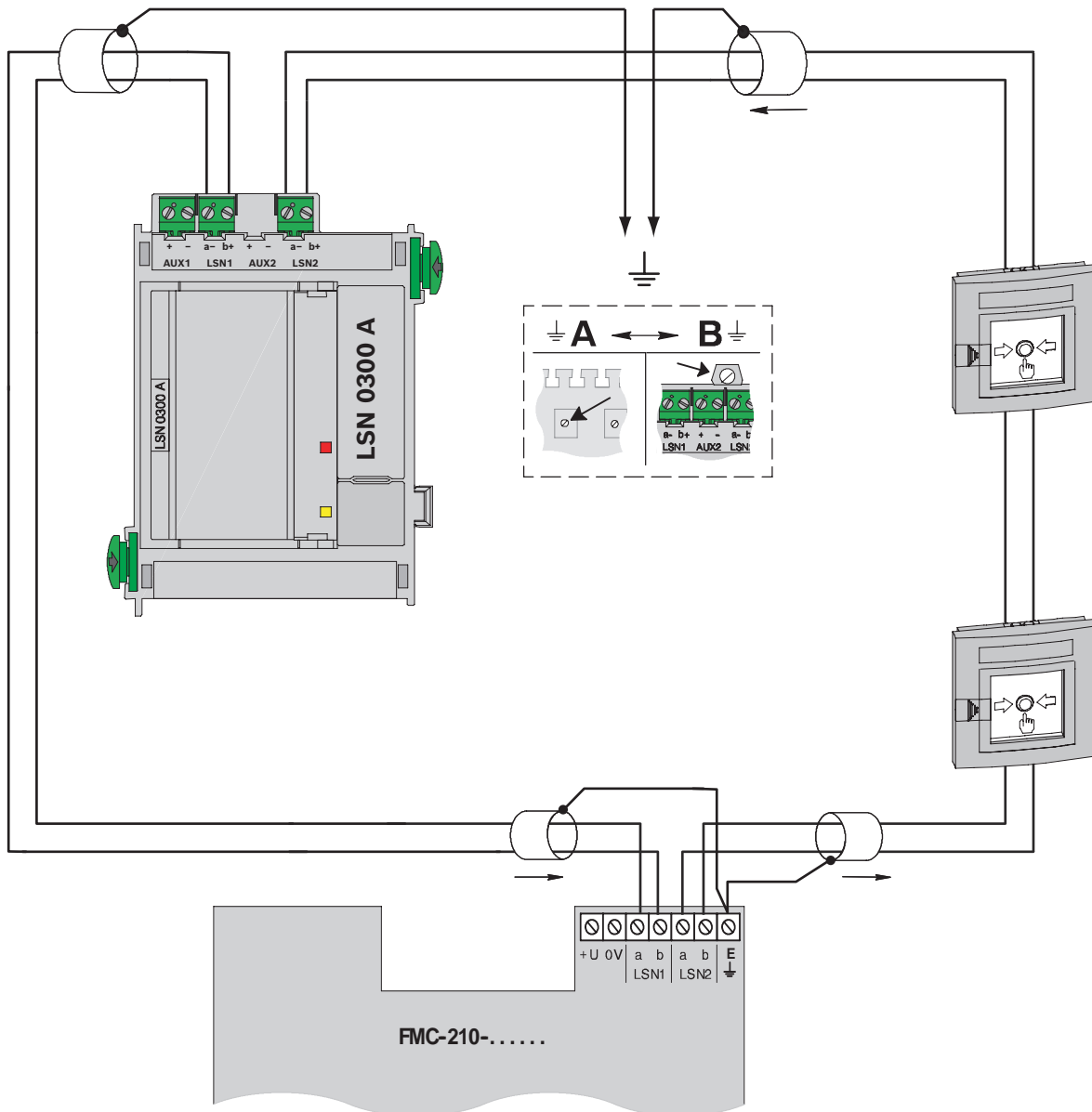
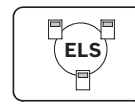
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

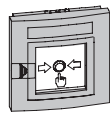
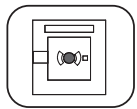
+ FNX-425U-COVWH
 + FNX-425U-COVRD



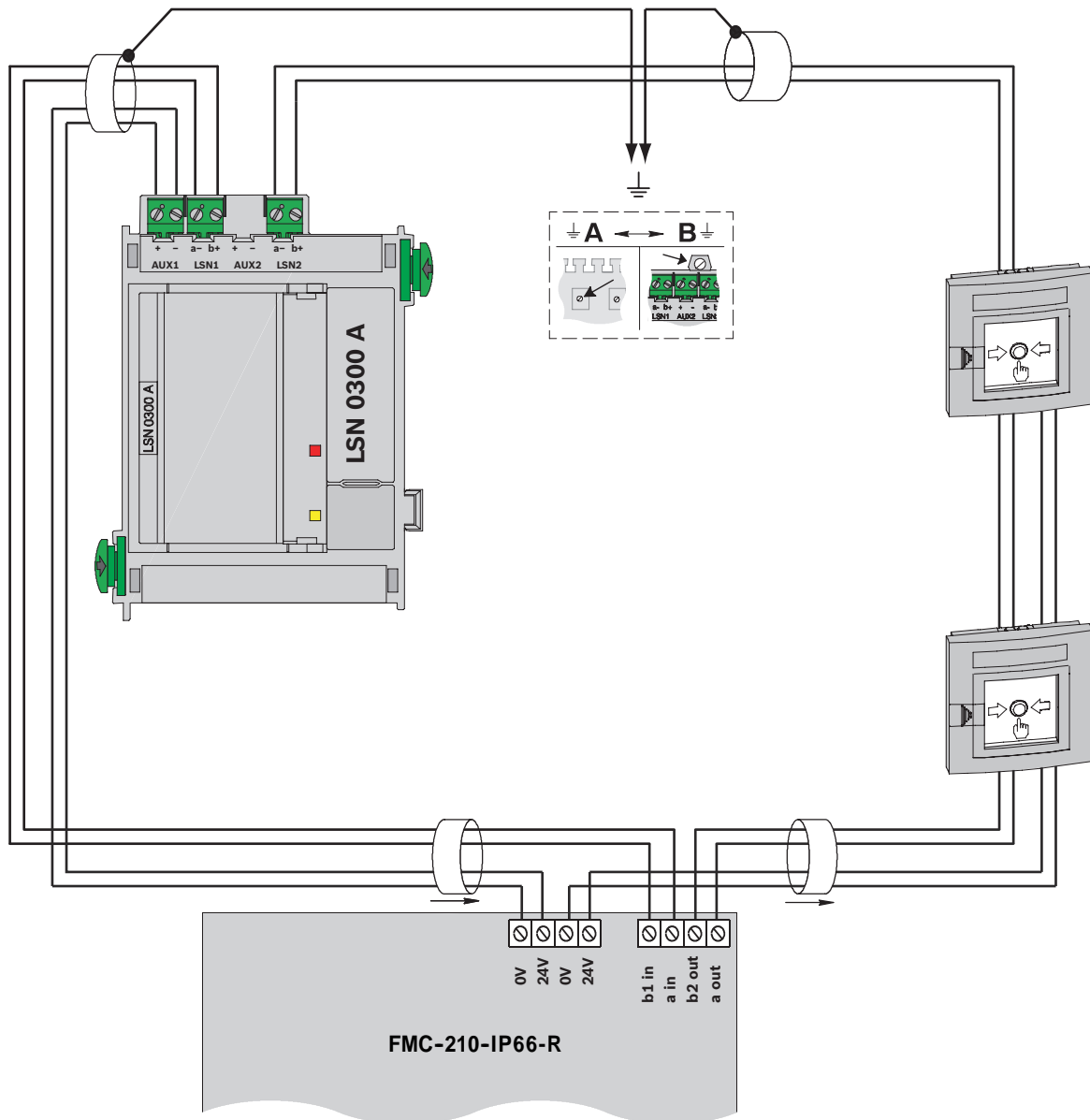
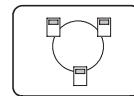


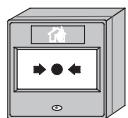
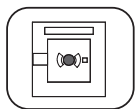
FMC-210...



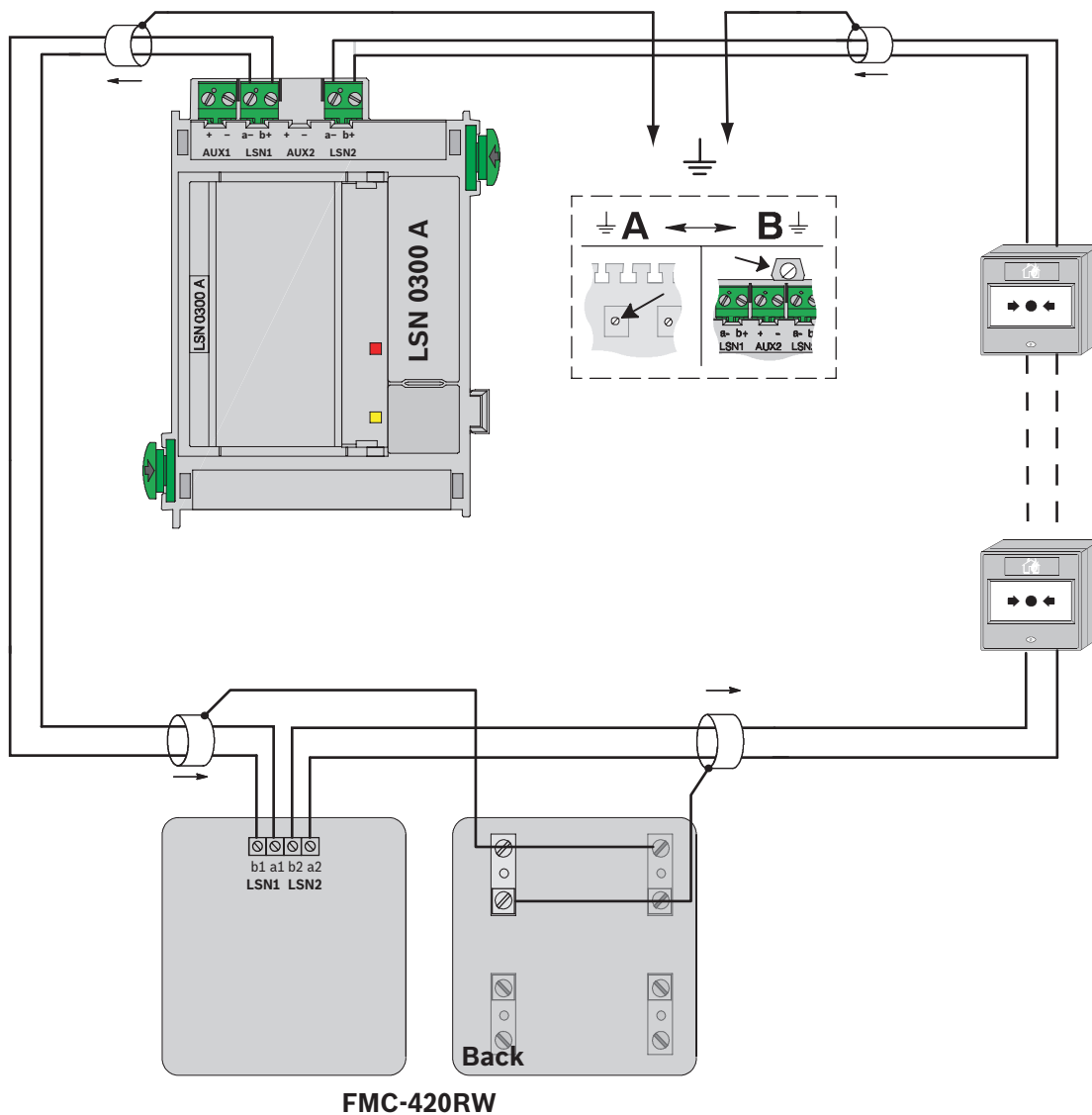
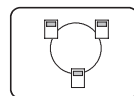


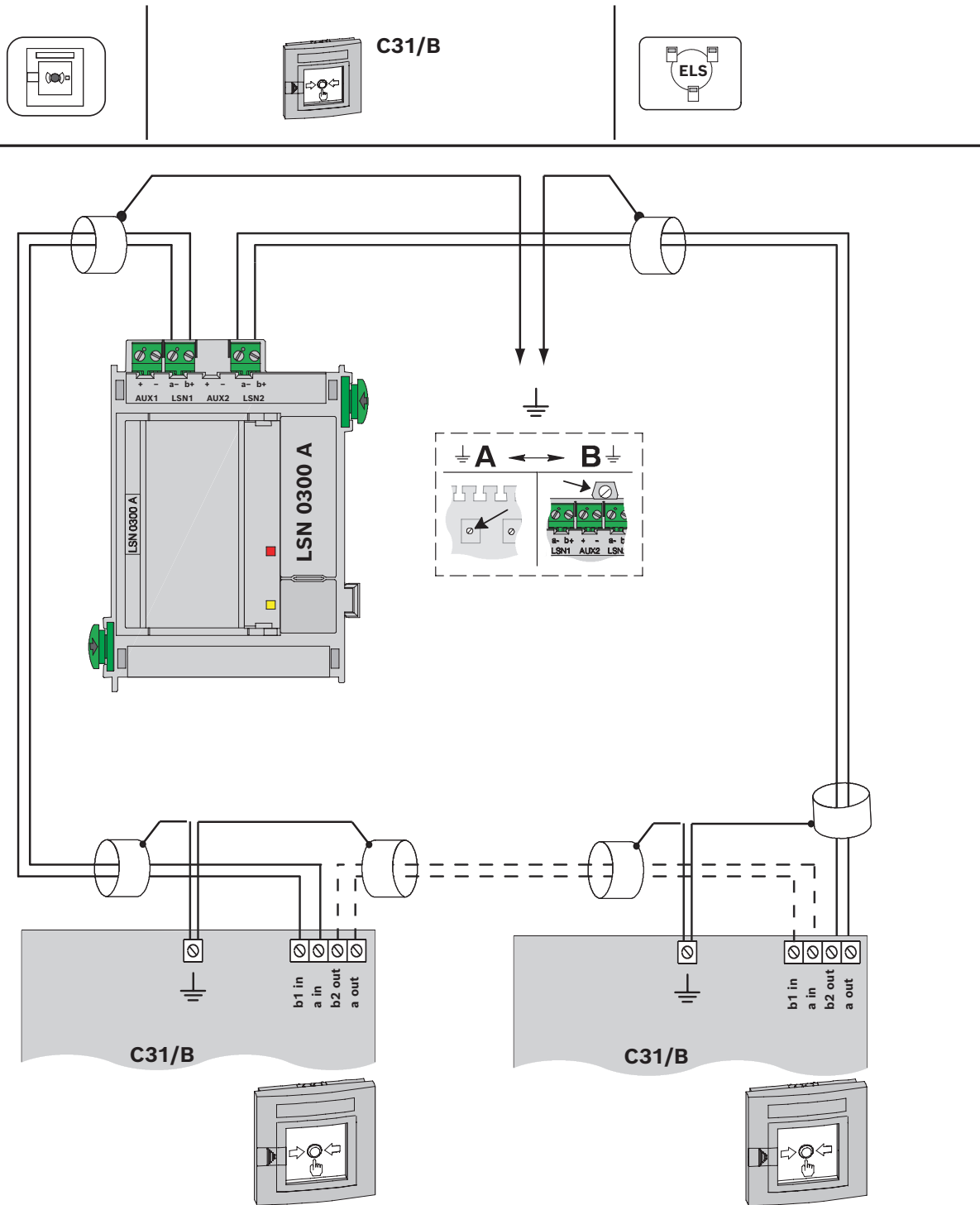
FMC-210-IP66-R

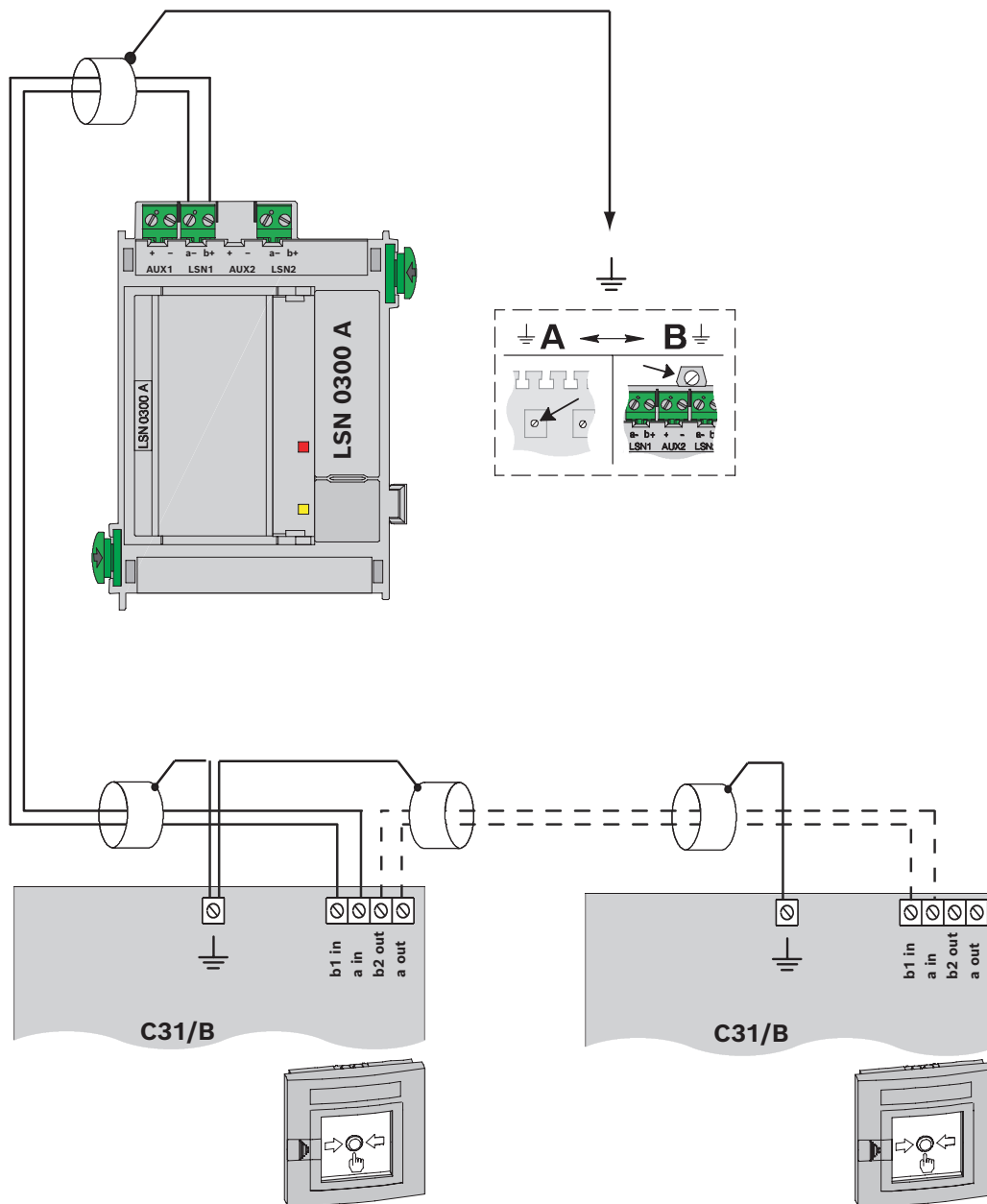
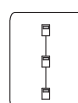
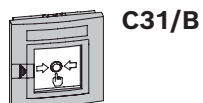
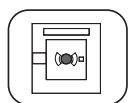


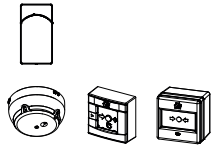


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD



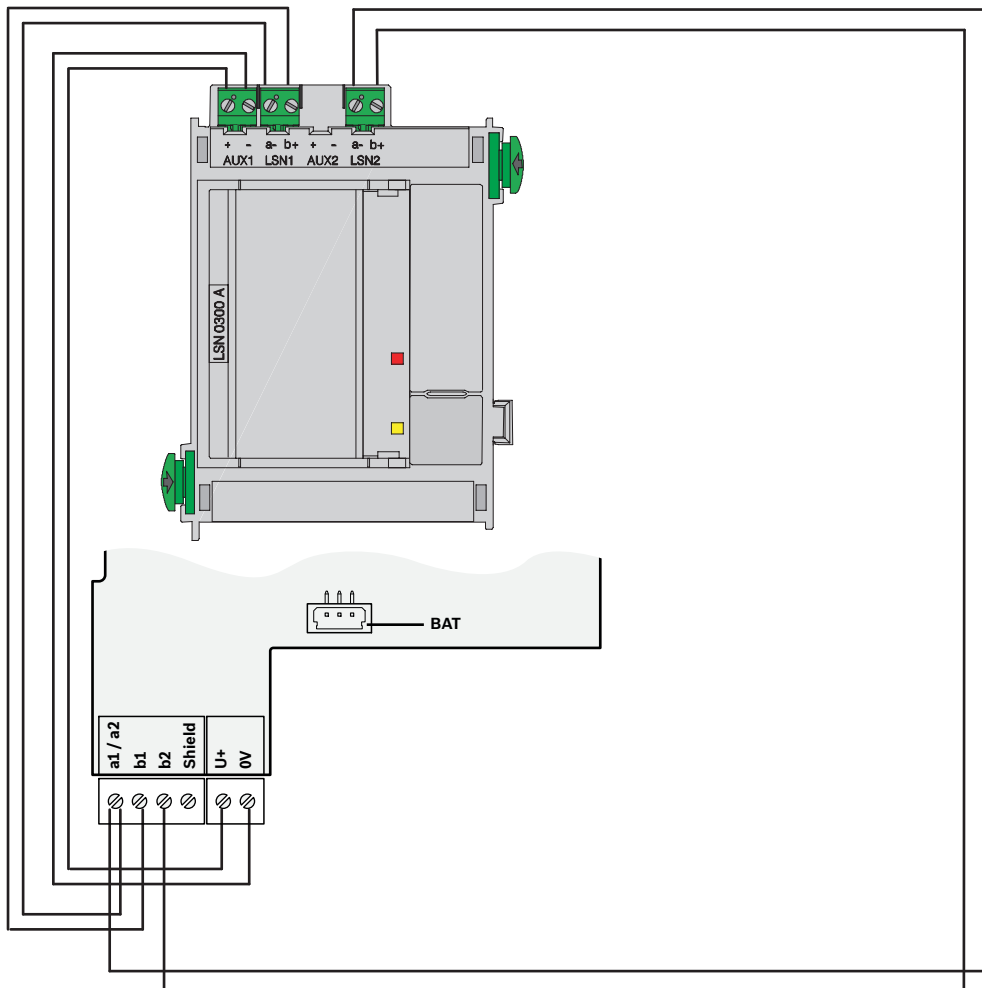
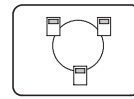






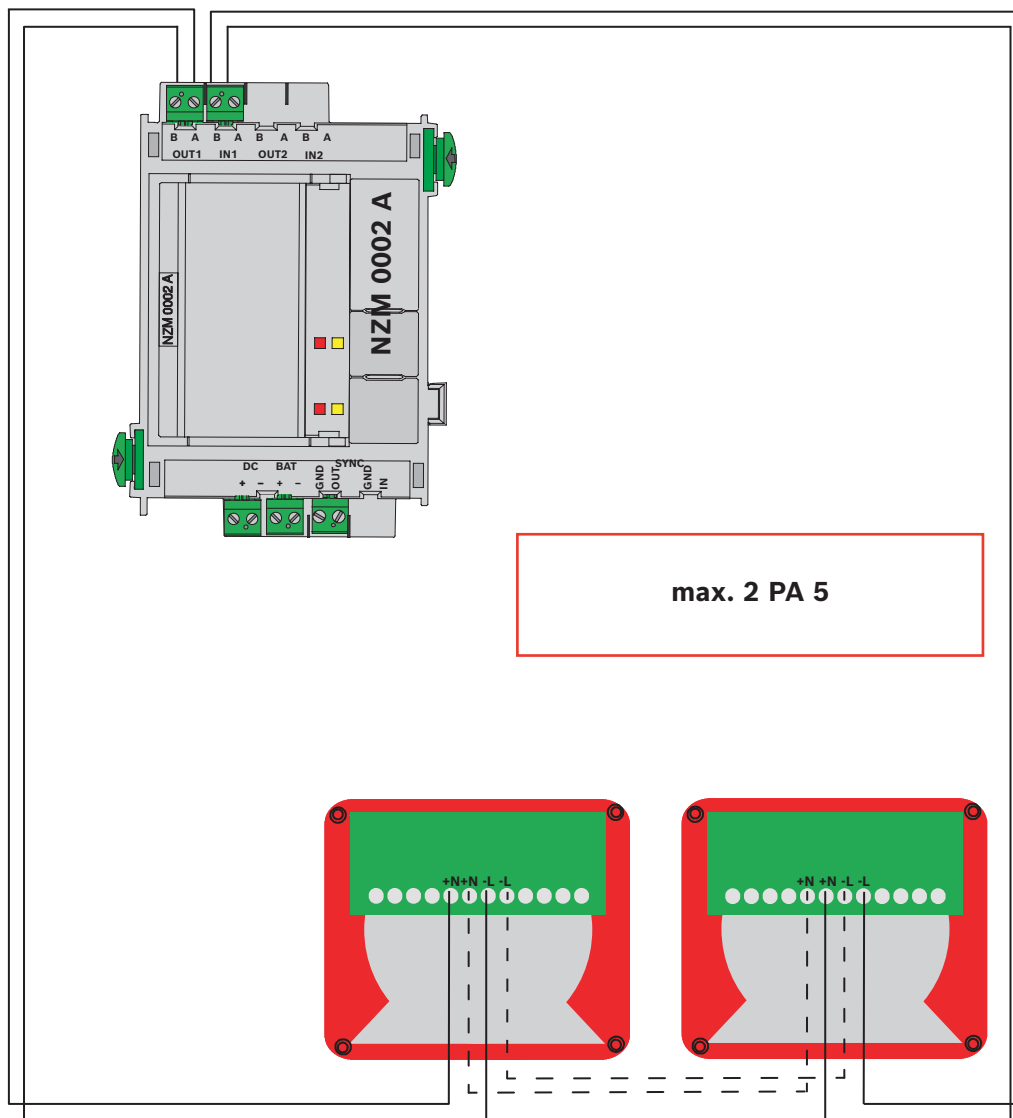
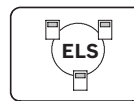
FWI-270

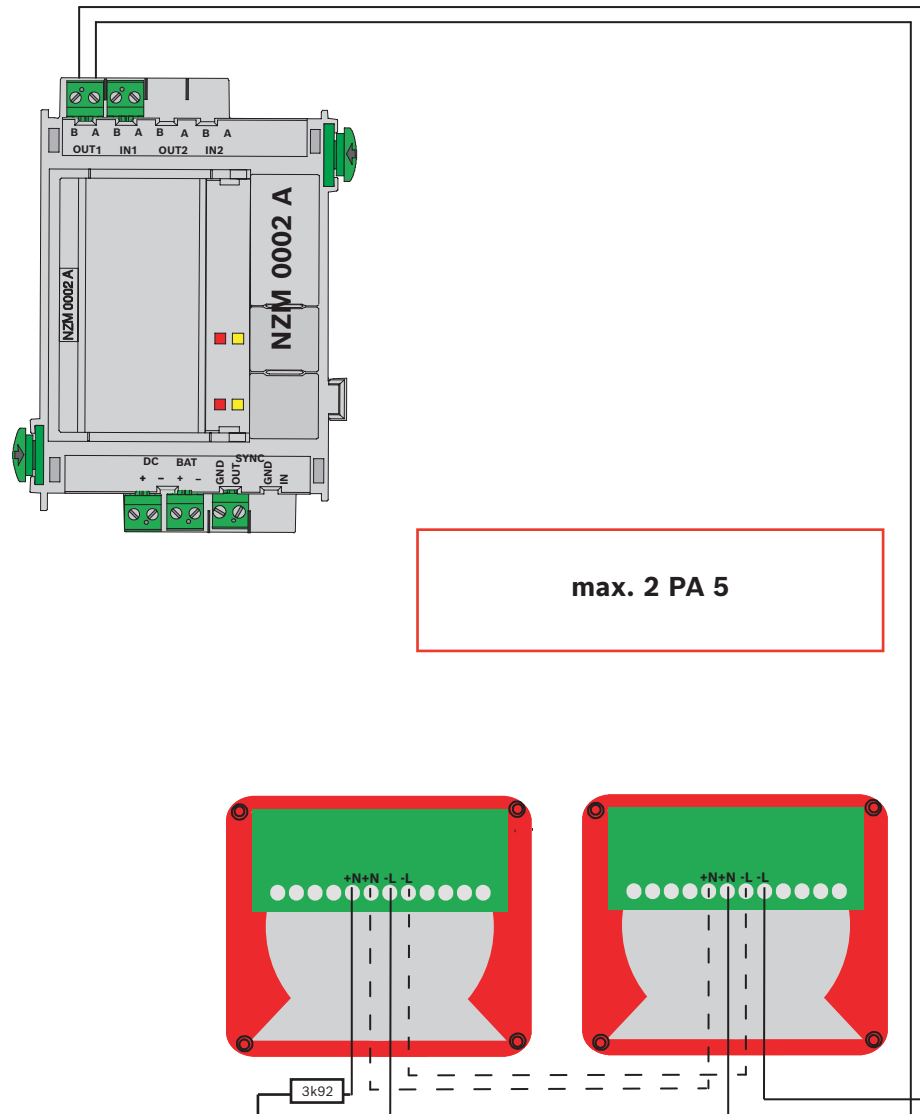
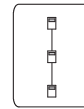
FDOOT271-O
FDM275-O
FDM273-O

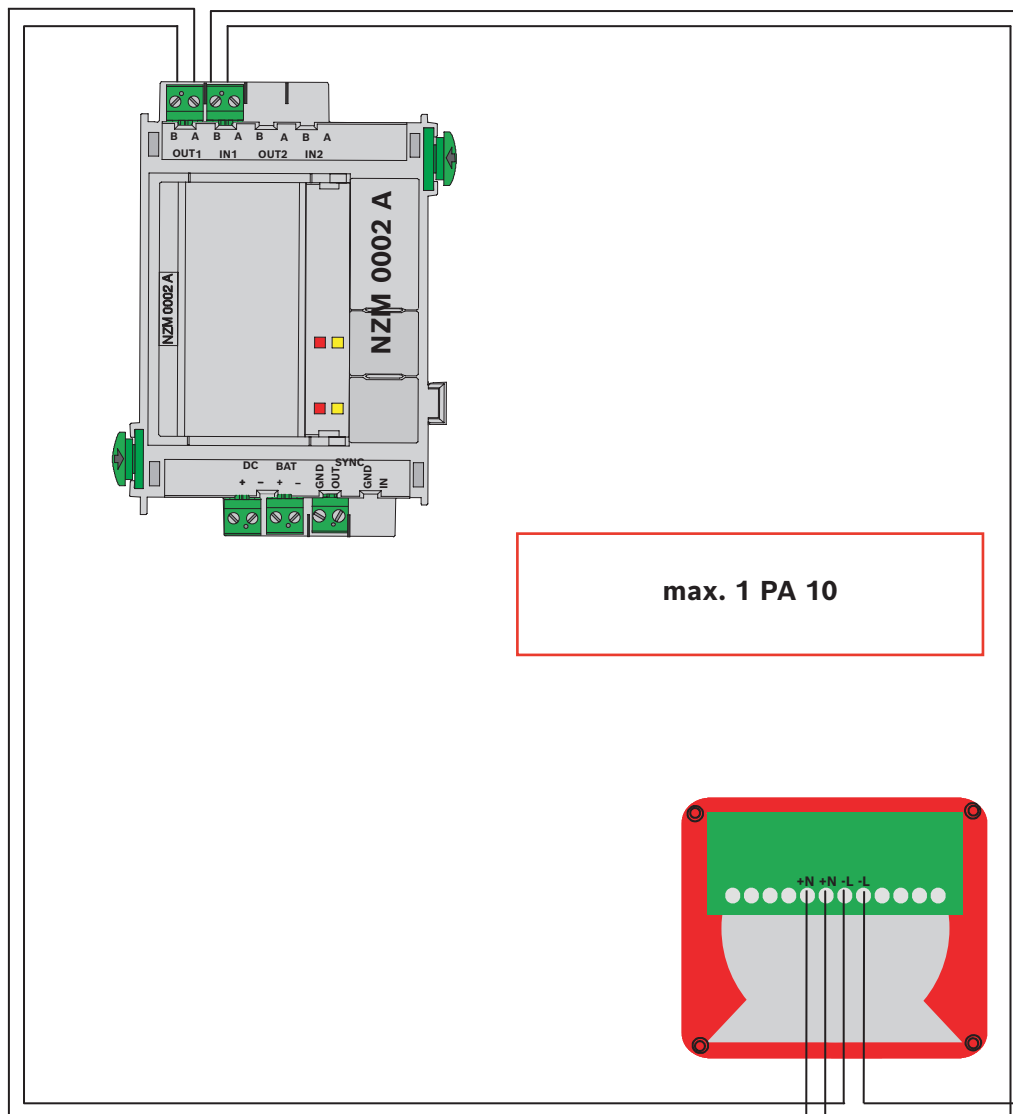
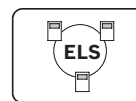


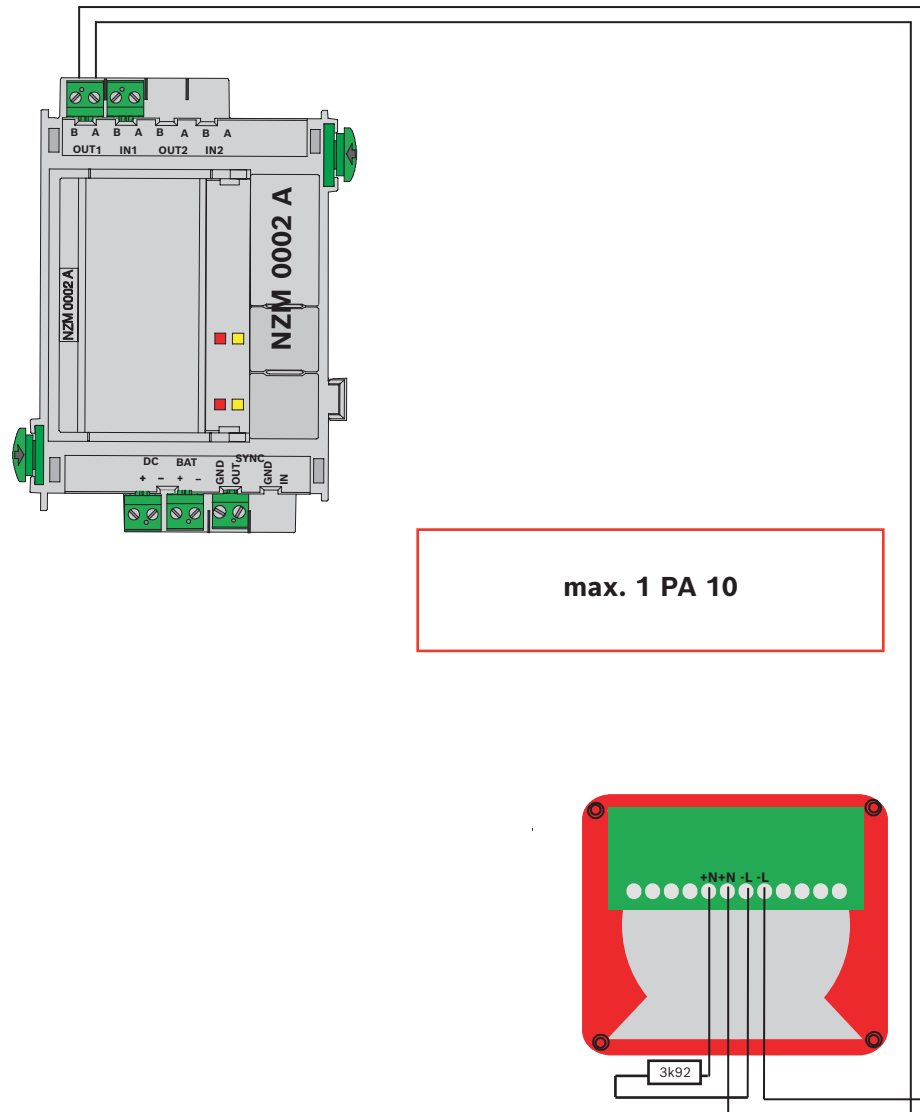
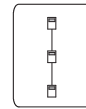
2.4.5

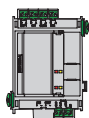
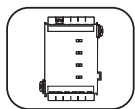
NZM 0002 A



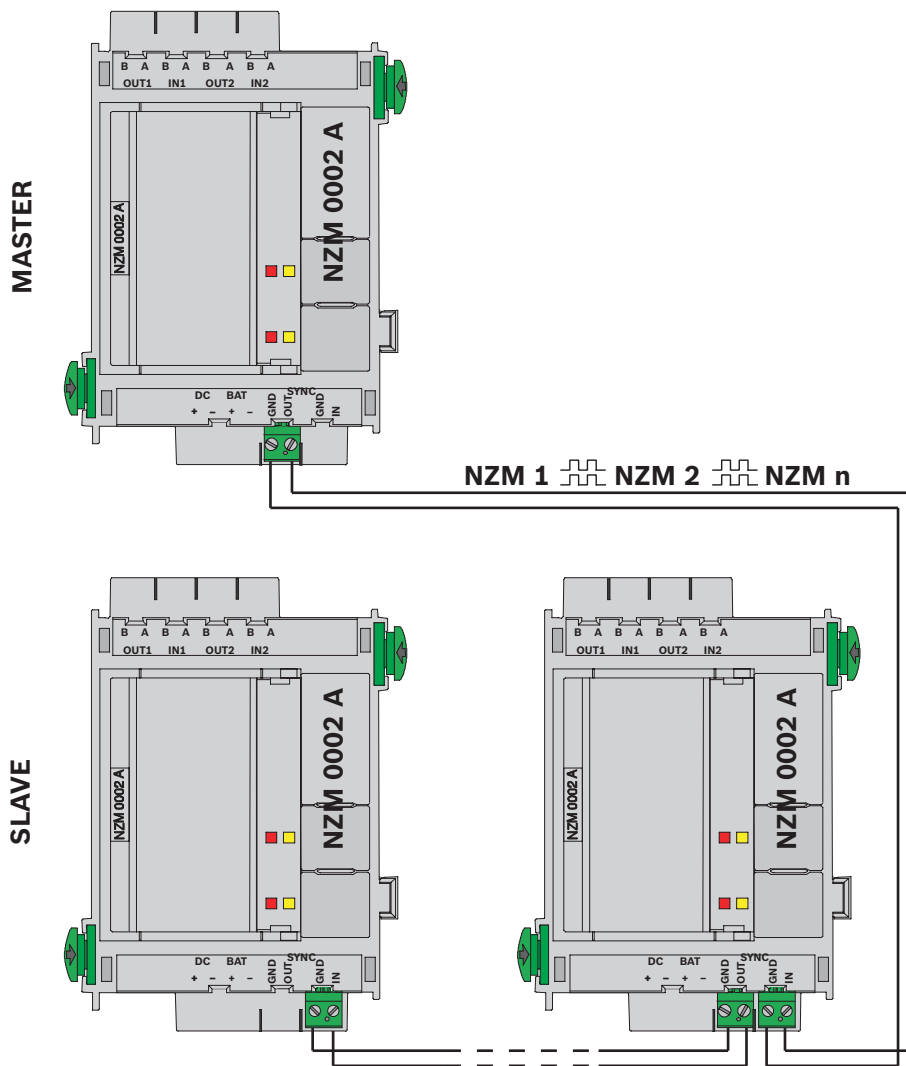


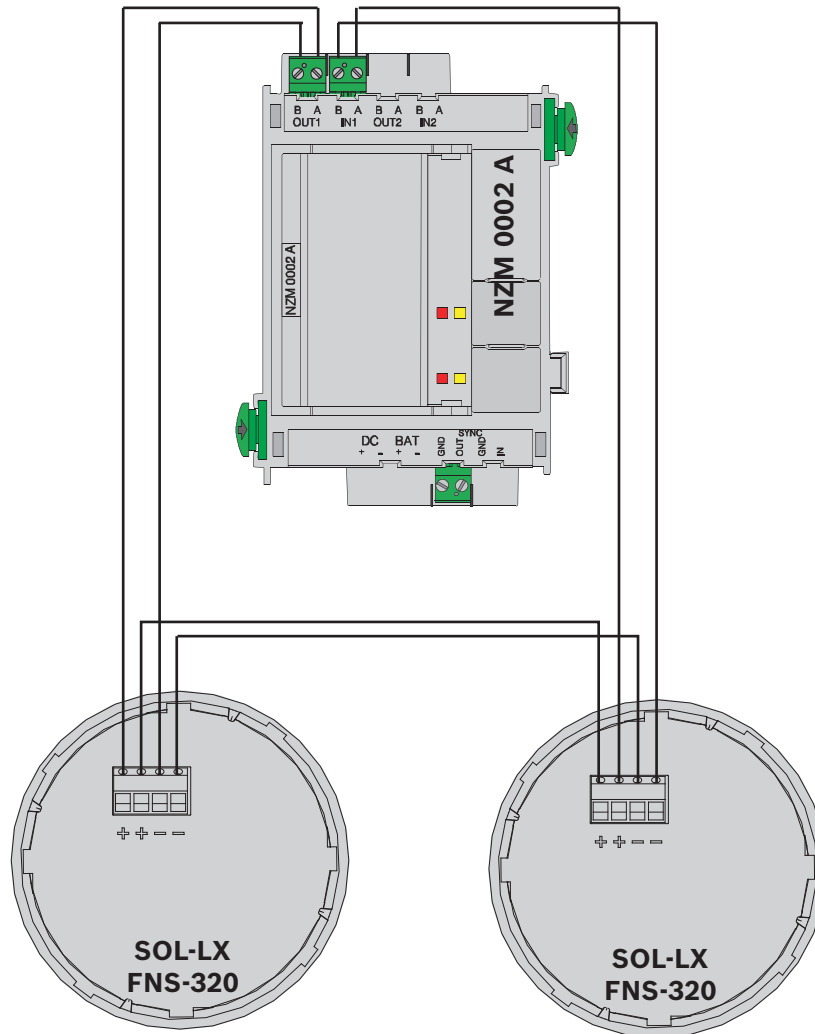
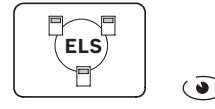






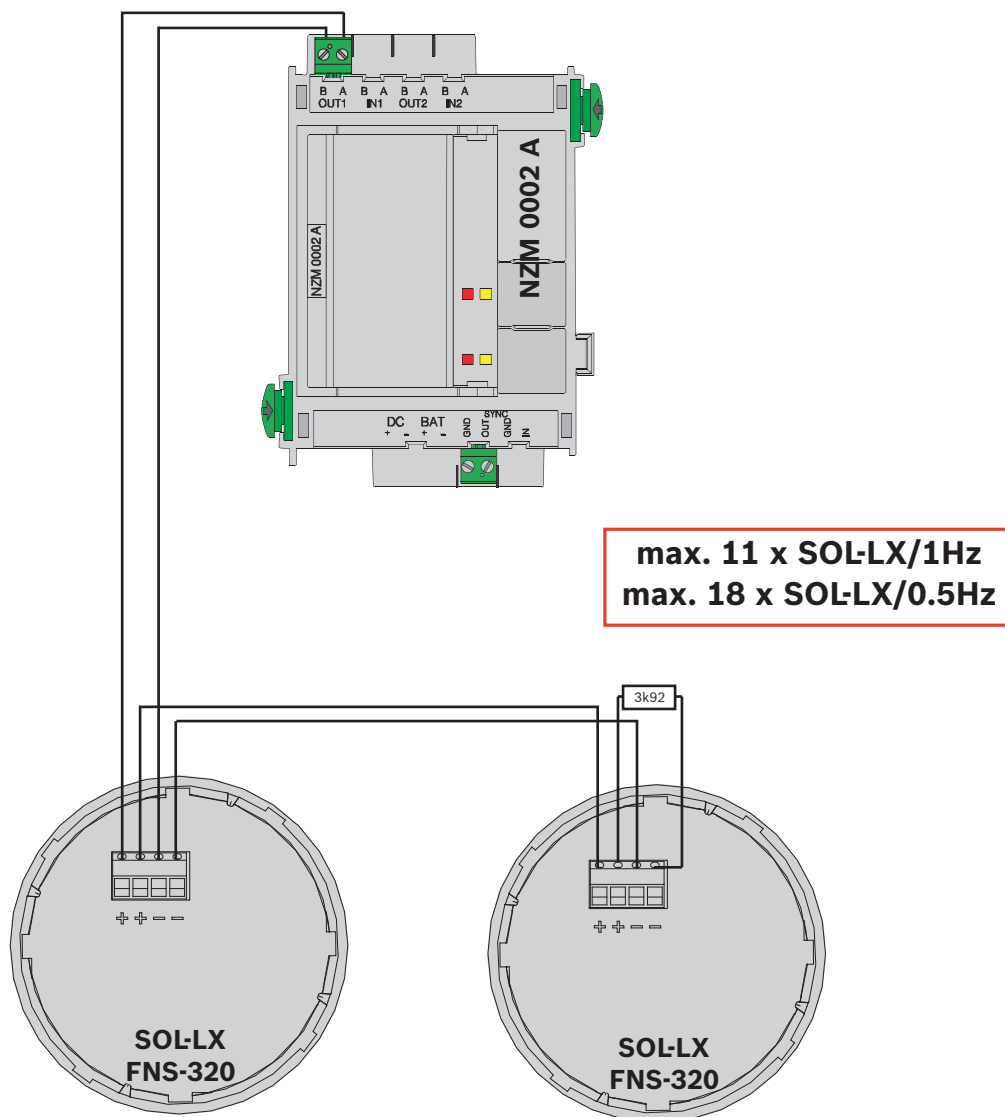
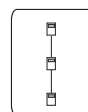
NZM 0002 A

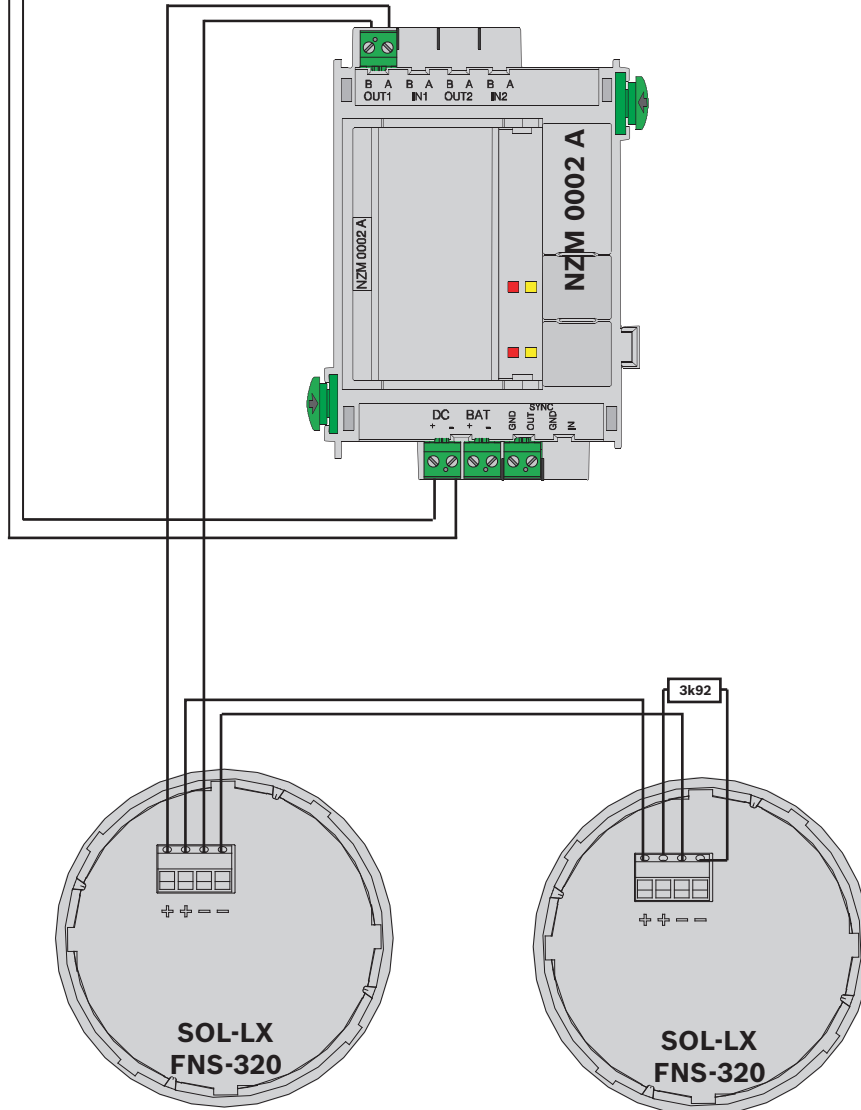
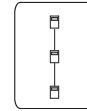


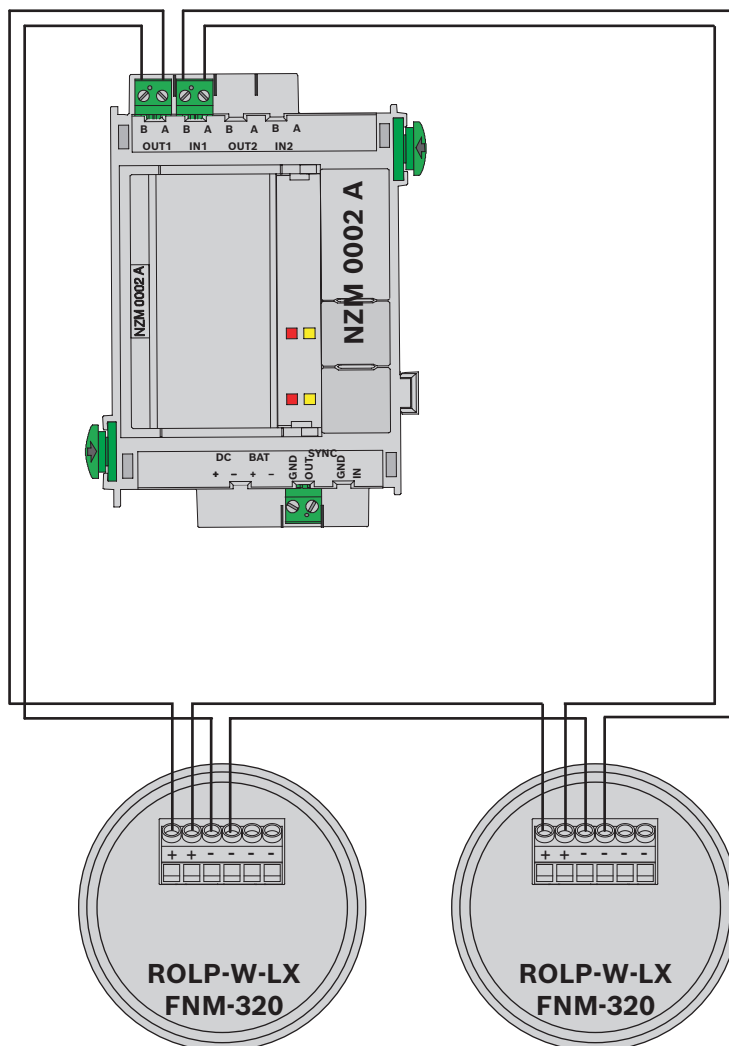
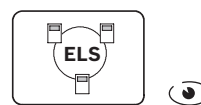


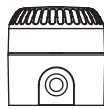


**SOL-LX
FNS-320**

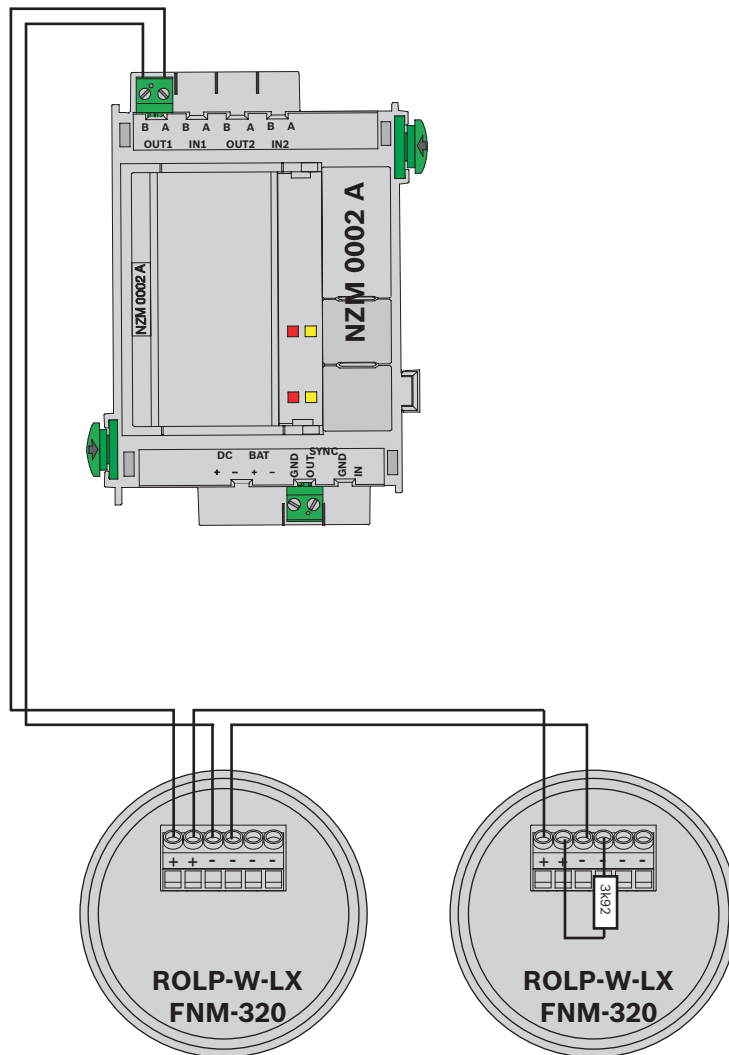
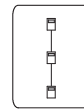






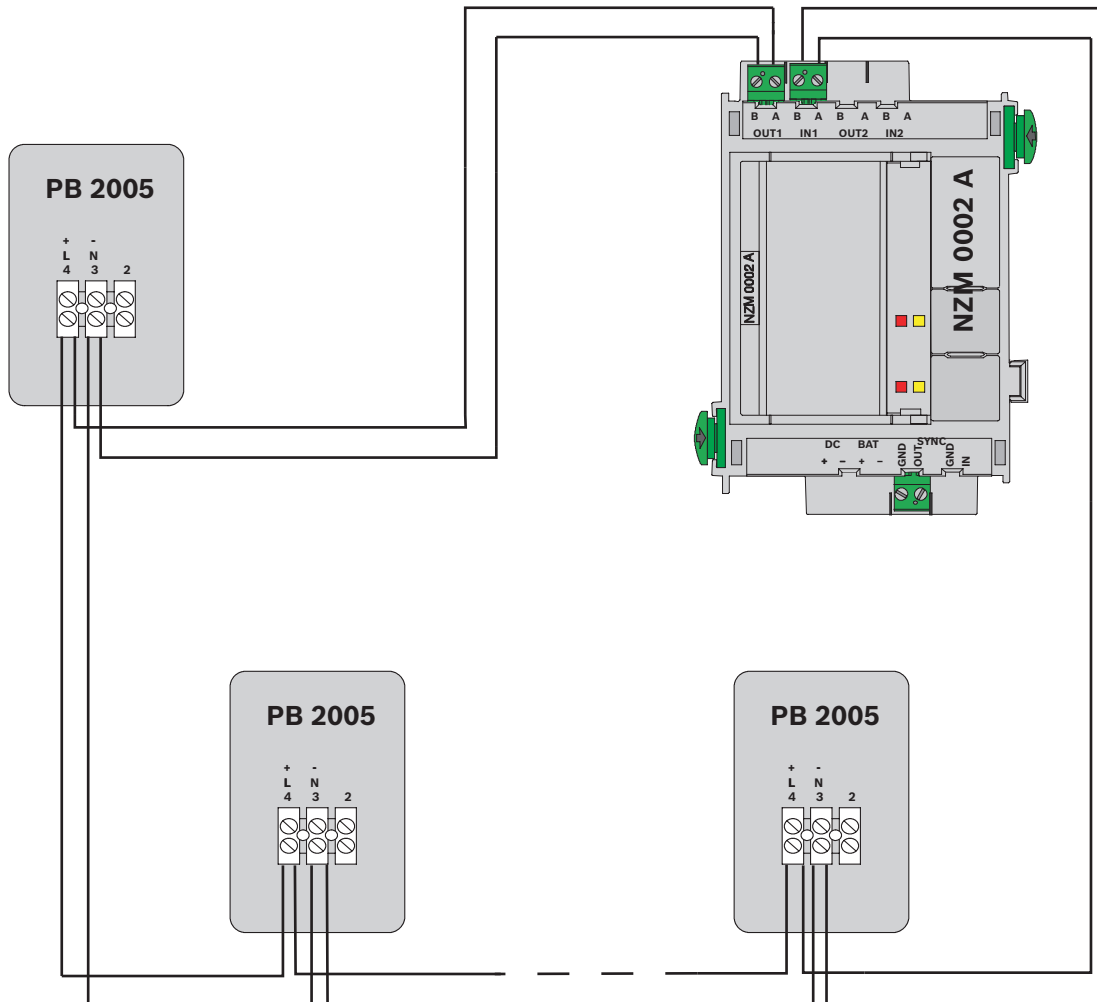
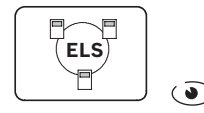


**ROLP-W-LX
FNM-320**



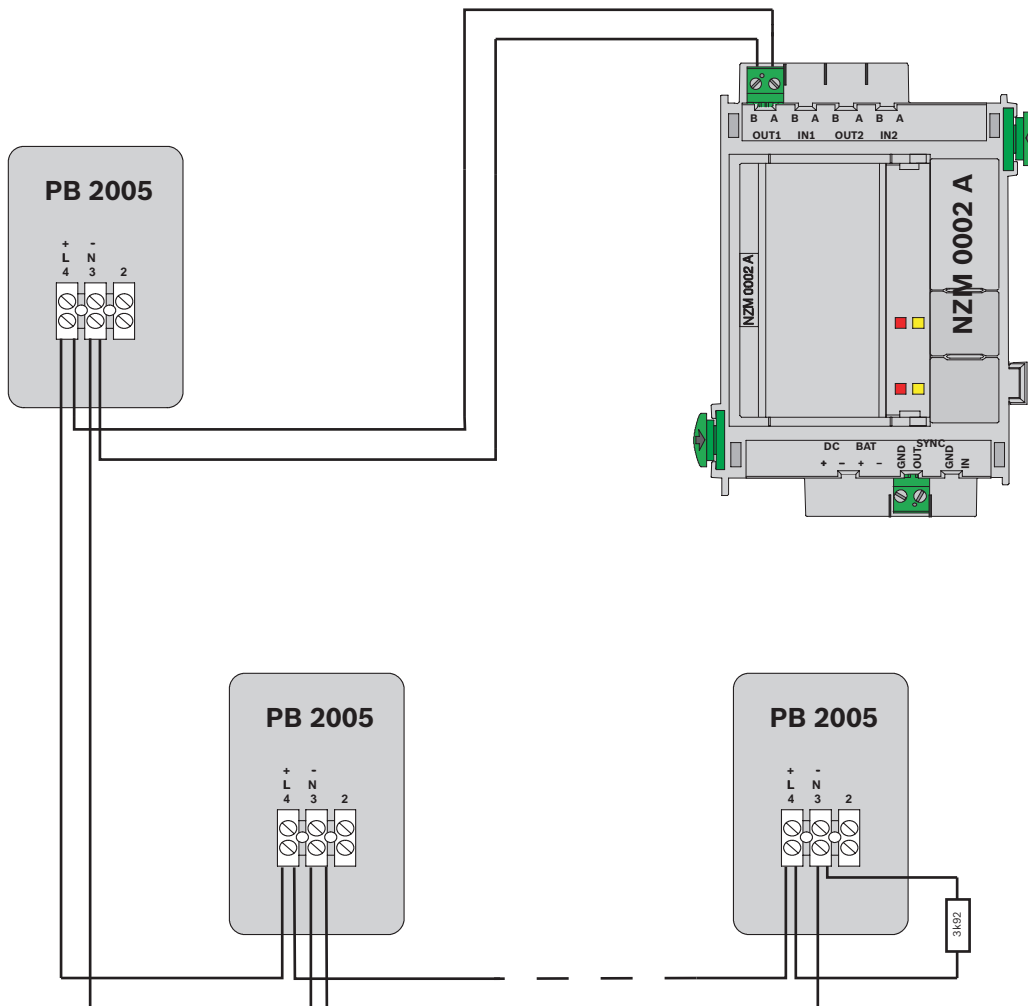
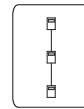


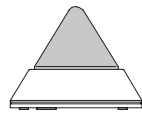
PB 2005



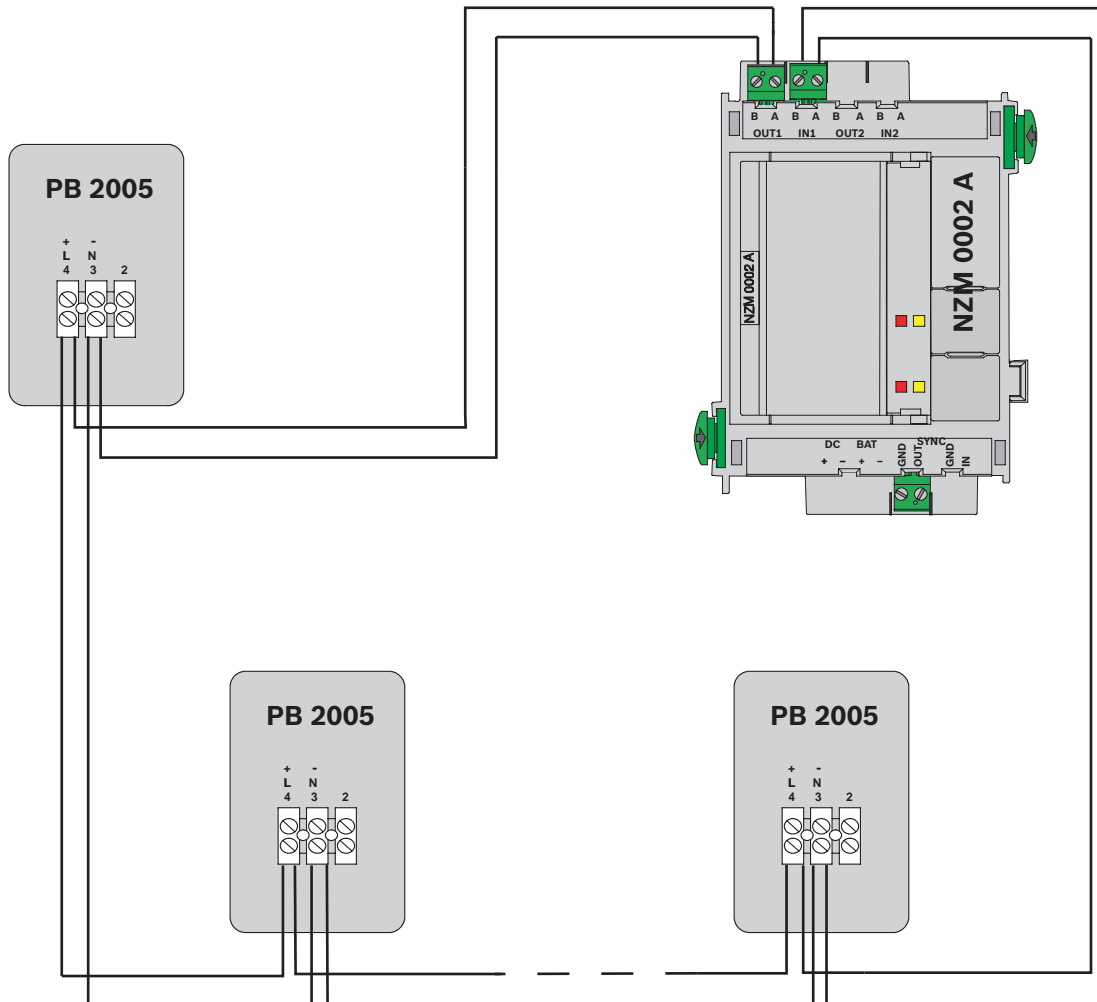
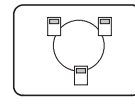


PB 2005



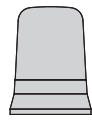
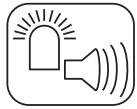


PB 2005

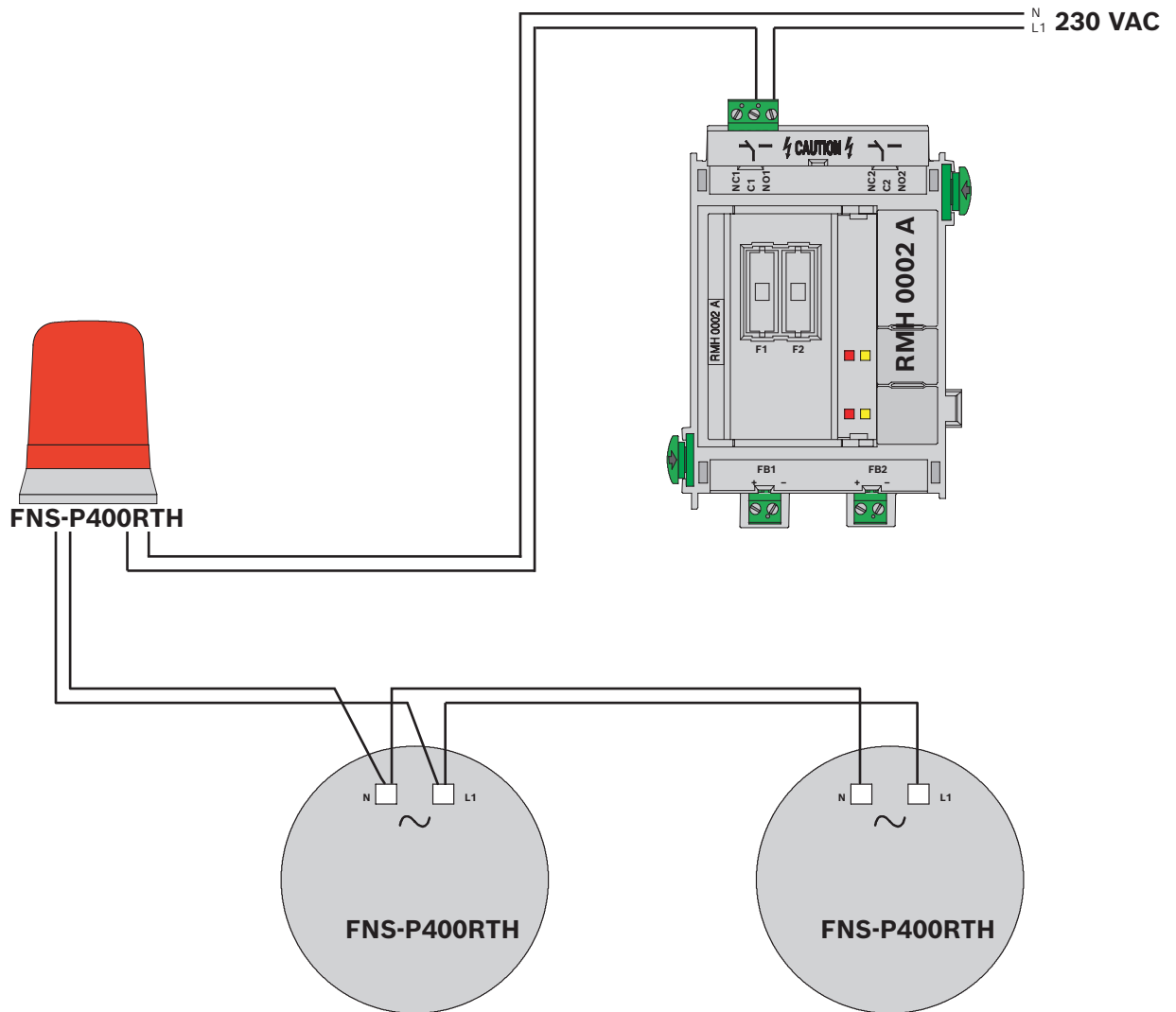
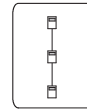


2.4.6

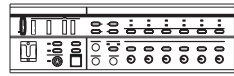
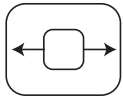
RMH 0002 A



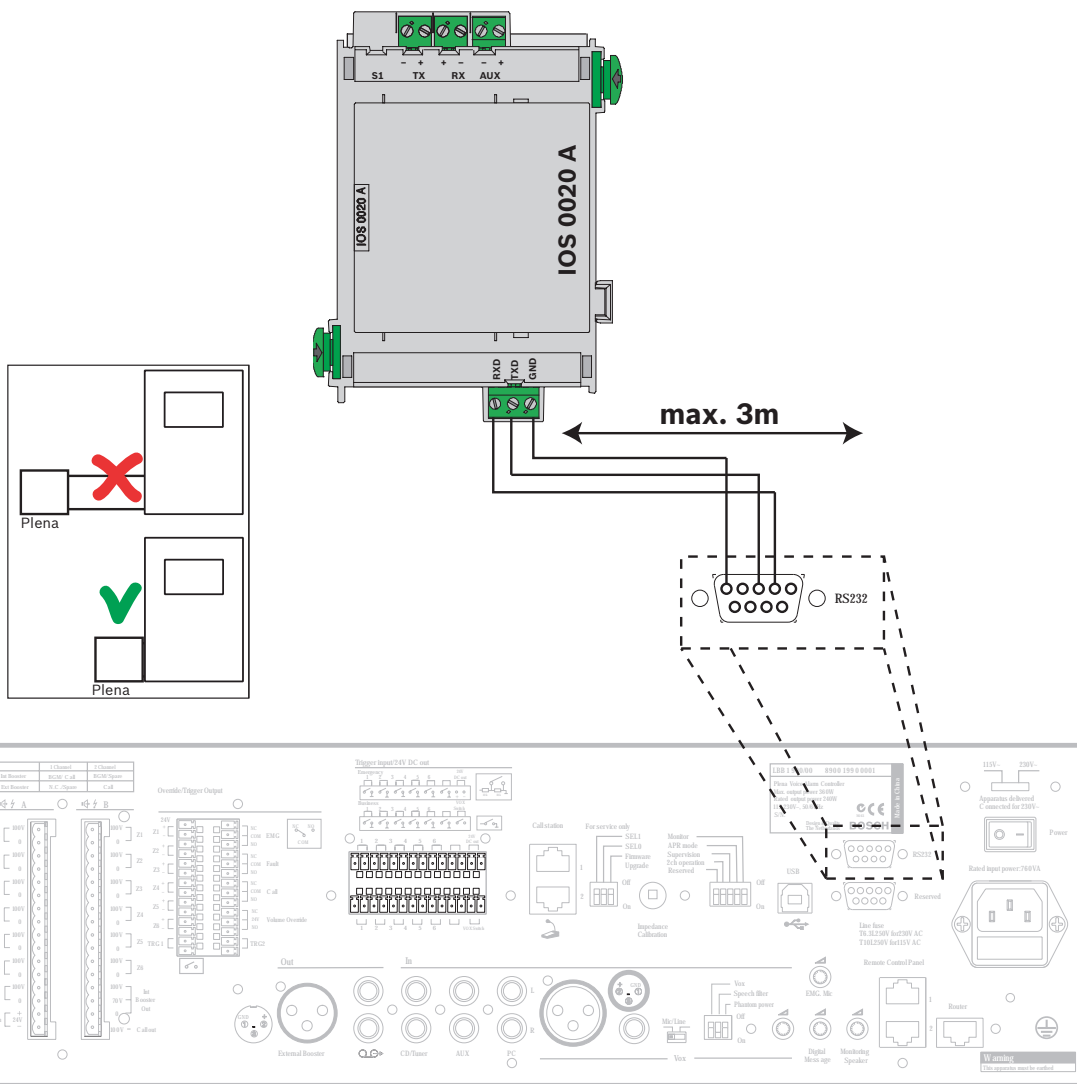
FNS-P400RTH



2.4.7 IOS 0020 A



Plena

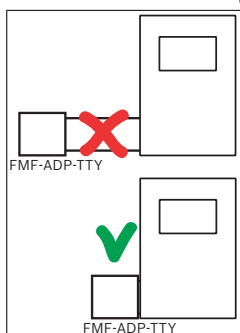
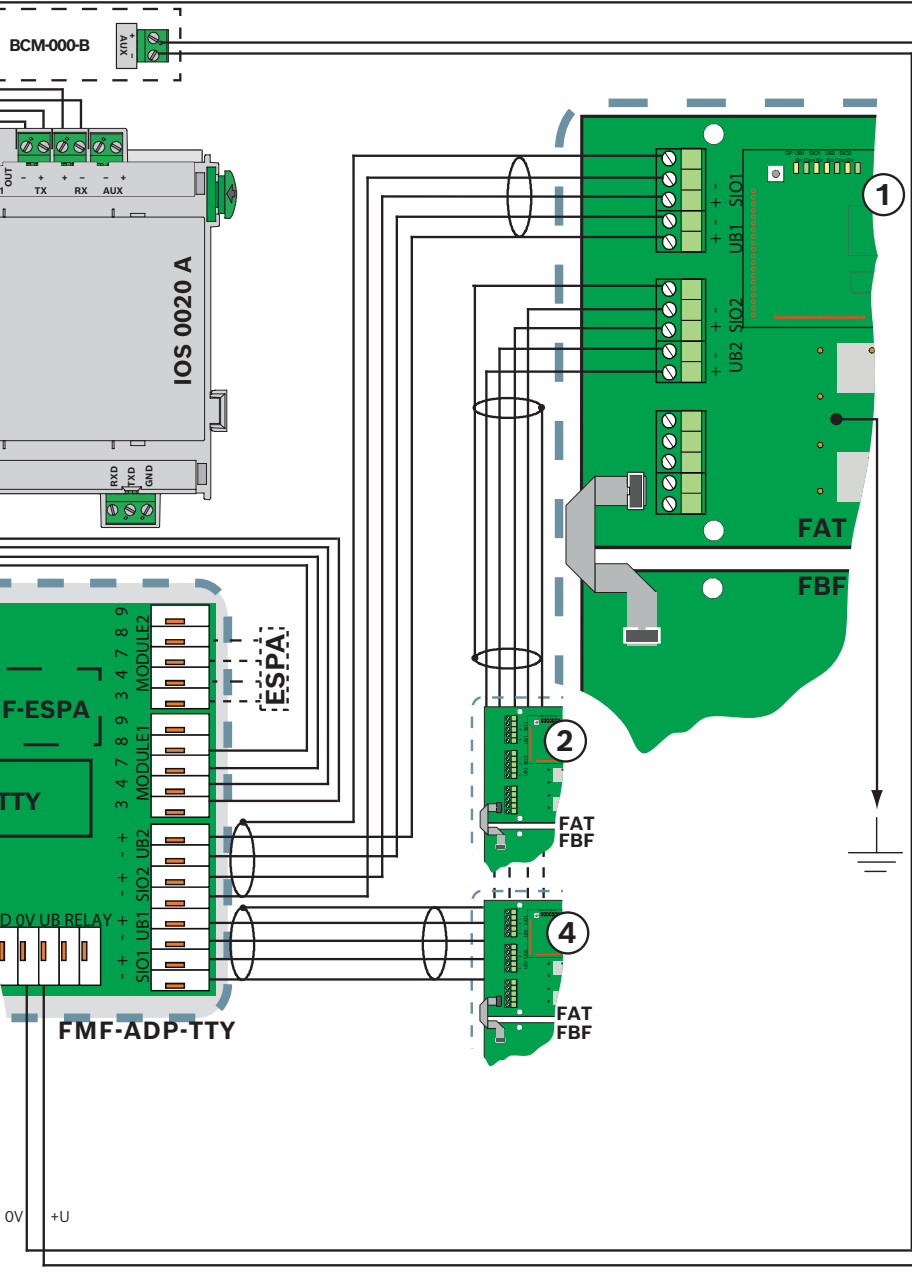




FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS

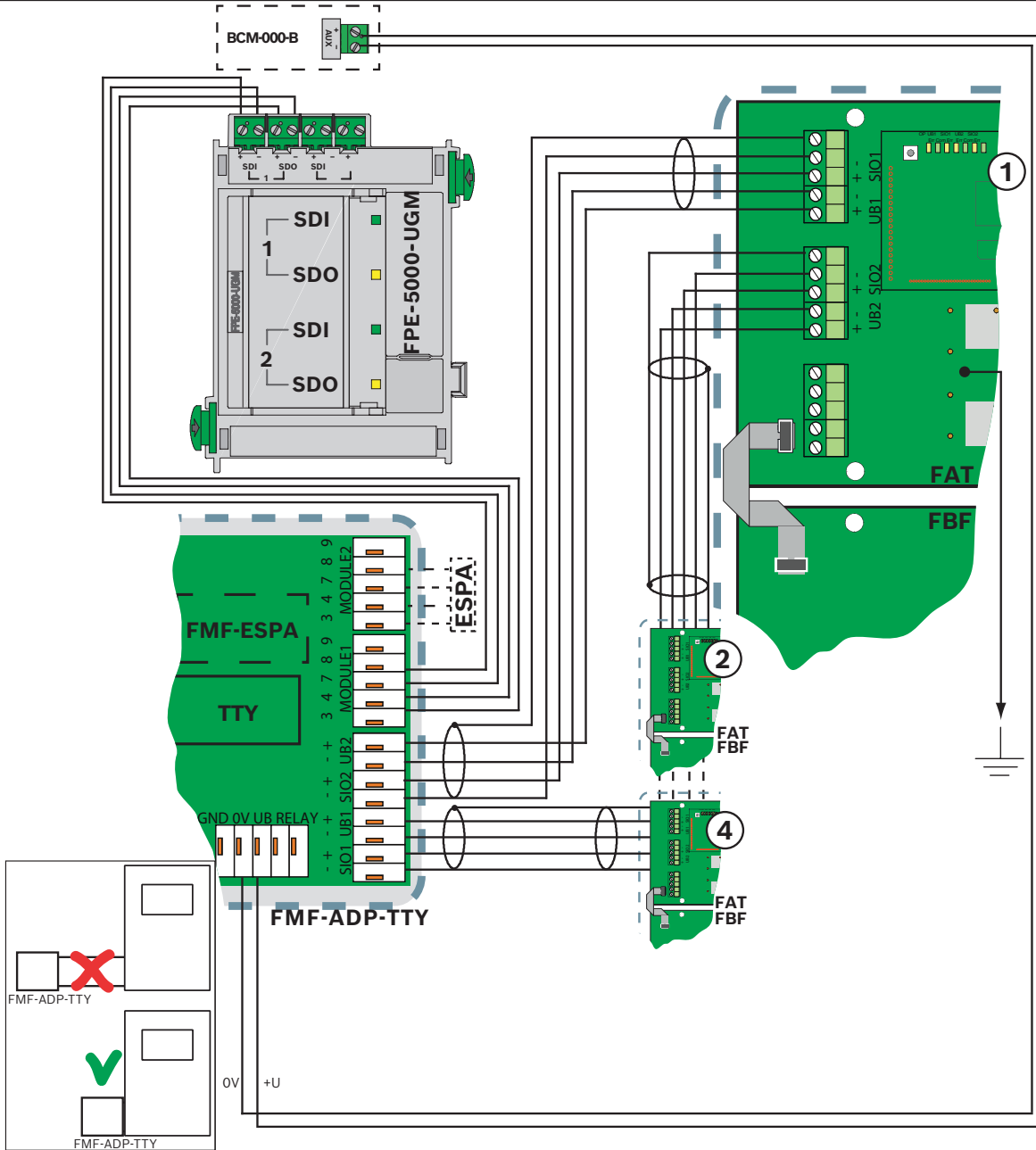


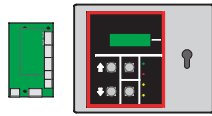
2.4.8 FPE-5000-UGM



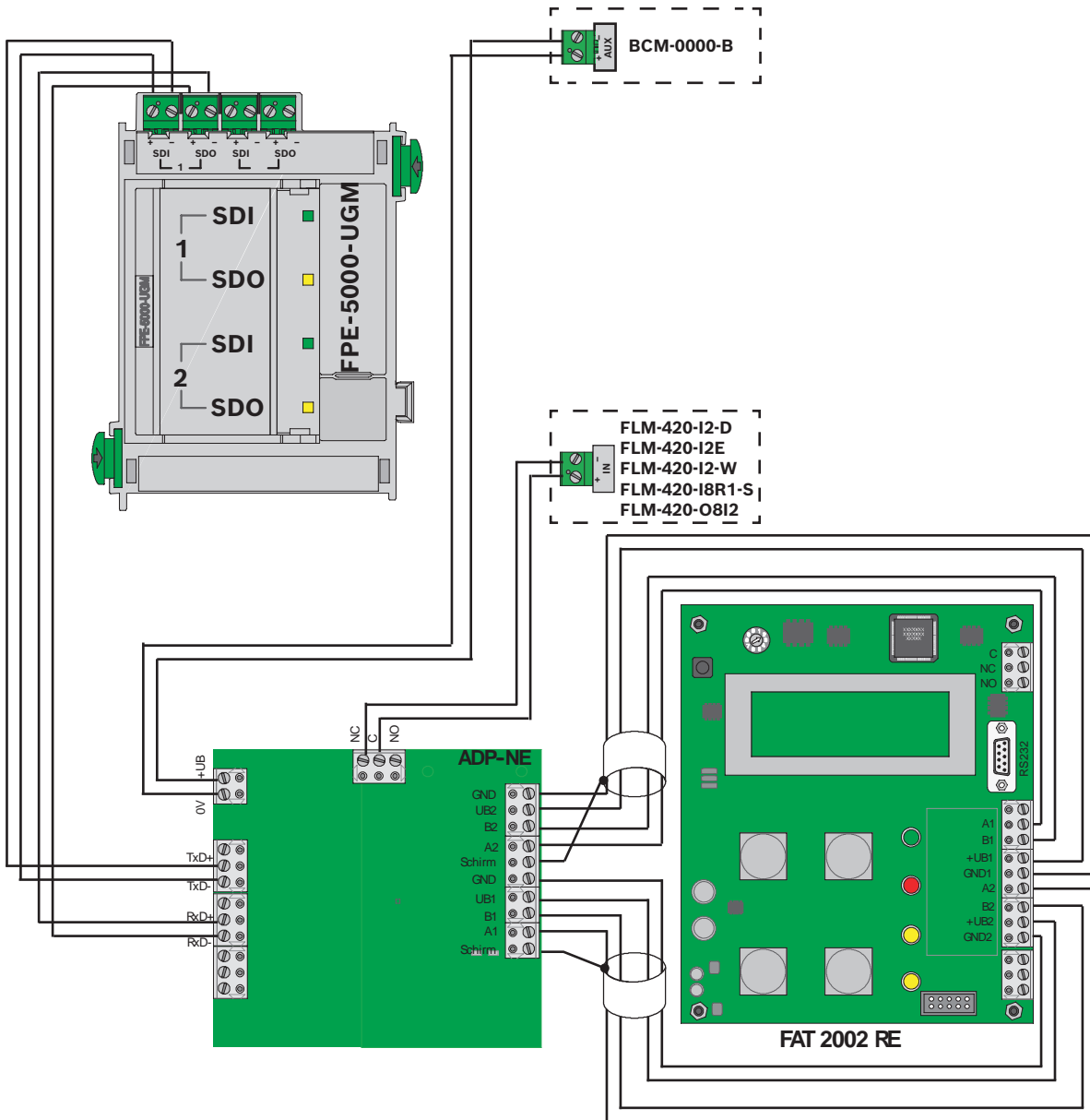
FAT4000 FBF4000 ADP4000
 FMF-FAT FMF-FBF-FAT
 FMF-FIBS-A4/-A3
 FMF-ADP

ELS





**FAT2002RE
ADP-NE**



2.5

Interface Modules



FLM-420-4/CON-D/S, stránka 125

FLM-420-I8R1-S, stránka 158

FLM-420-NAC-D/S, stránka 160

FLM-420-RHV, stránka 172

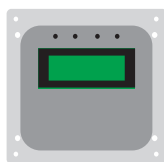
FLM-420-RLE-S, stránka 184

FLM-420-RLV1-E, stránka 185

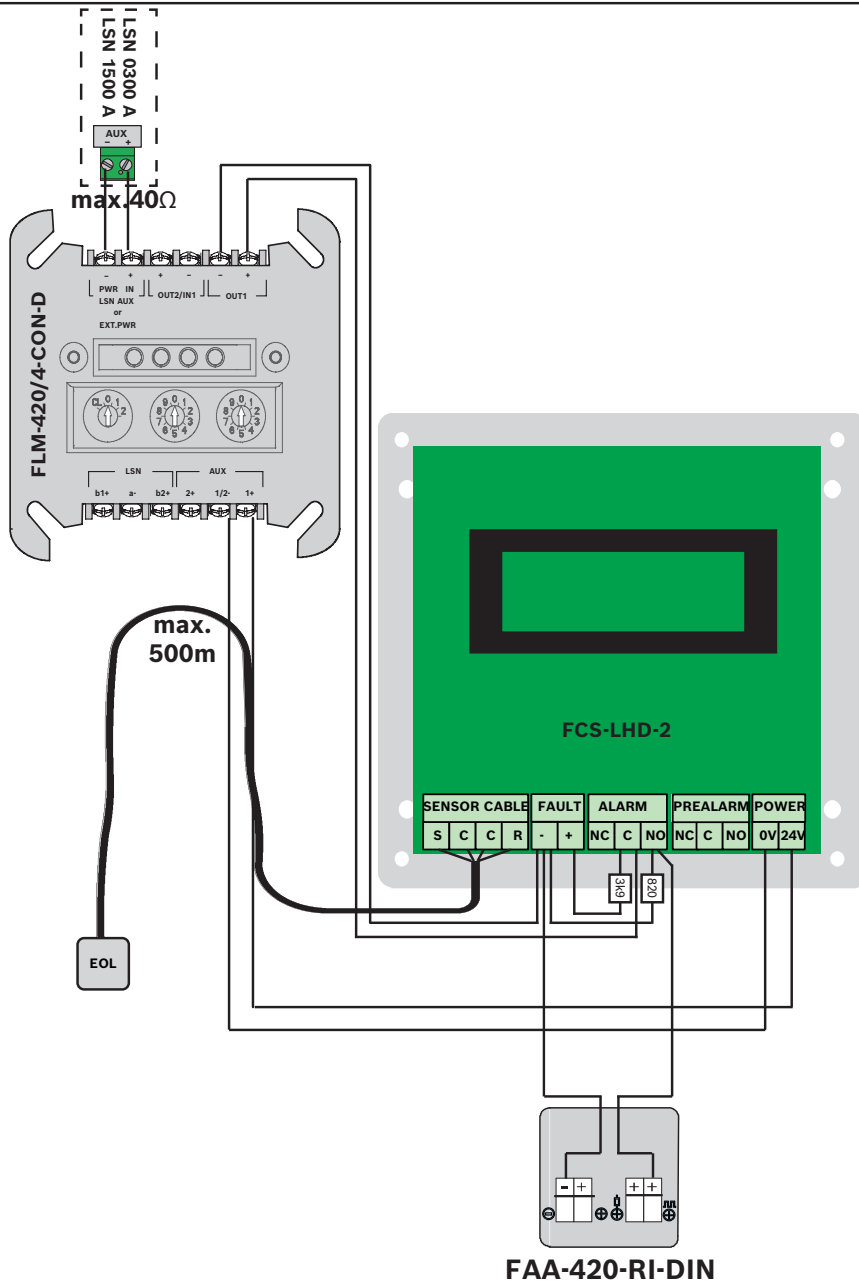
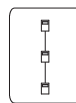
FLM-420-RLV8-S, stránka 186

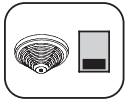
FMF-ADP-FBF/FMF-ADP-TTY, stránka 187

2.5.1 FLM-420-4/CON-D/S

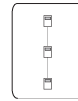


ALARMLINE II



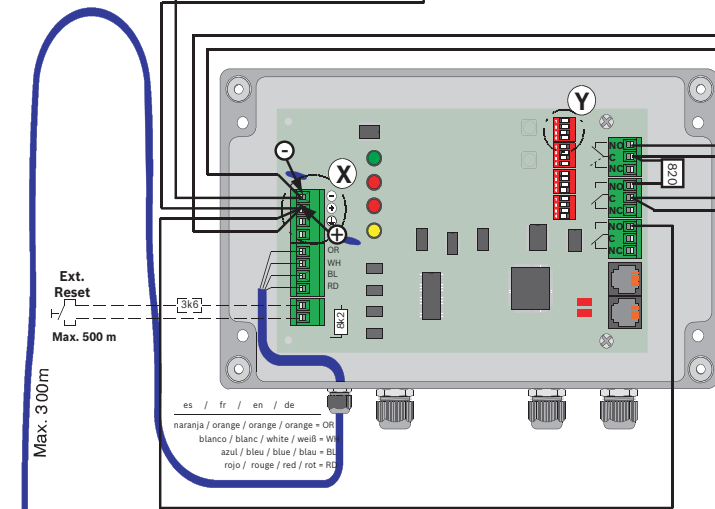
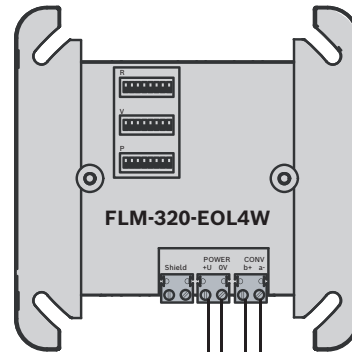
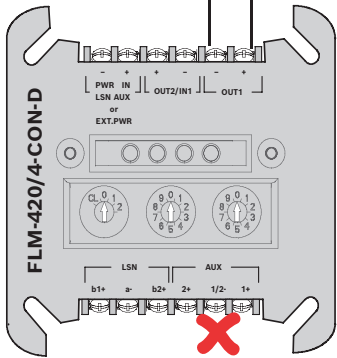


FCS-LWM-1



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

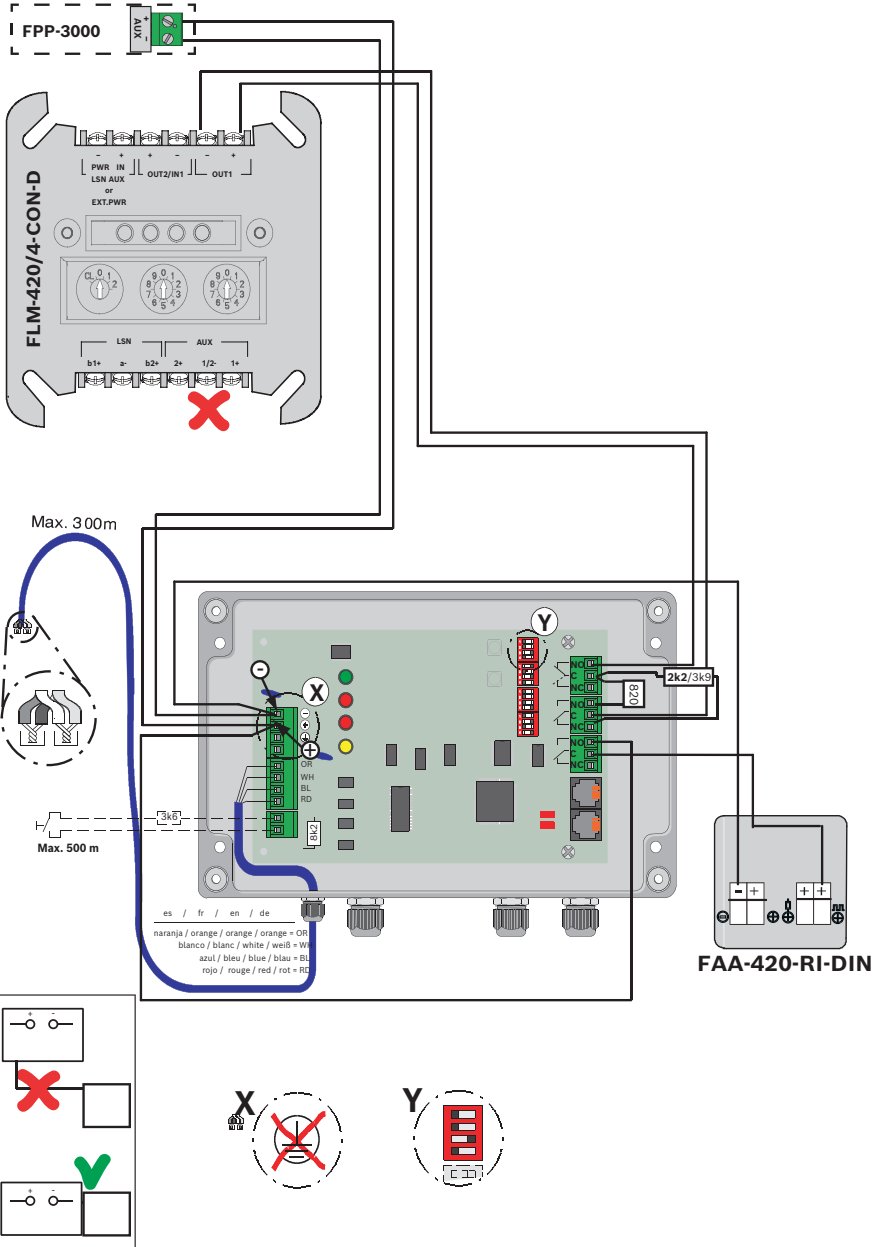


es / fr / en / de
naranja / orange / orange / orange = OR
blanco / blanc / white / weiß = WH
azul / bleu / blue / blau = BL
rojo / rouge / red / rot = RE



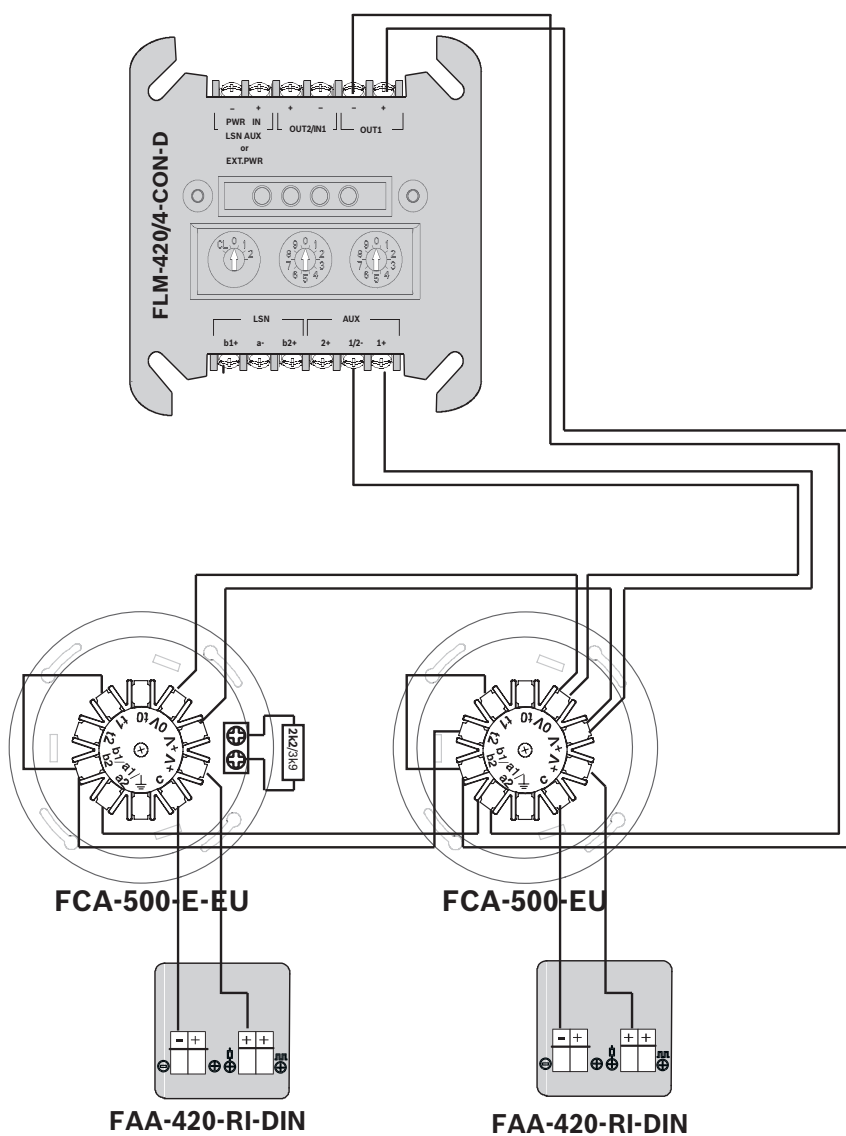


FCS-LWM-1



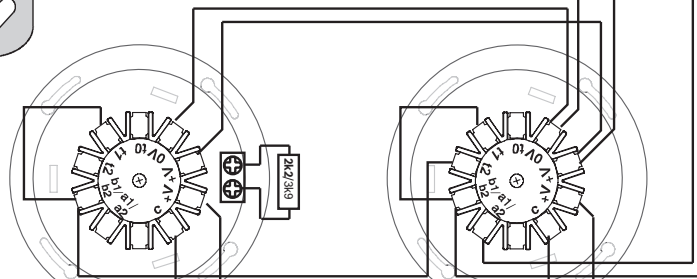
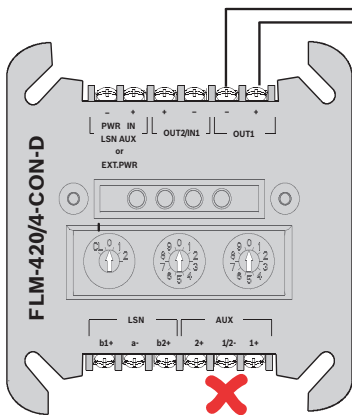


FCP-500





FCA-500-EU
 FCP-O 500
 FCP-O 500-P
 FCP-OC 500
 FCP-OC 500-P

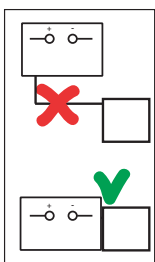


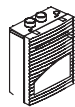
FCA-500-E-EU

FCA-500-EU

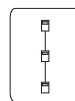
FAA-420-RI-DIN

FAA-420-RI-DIN

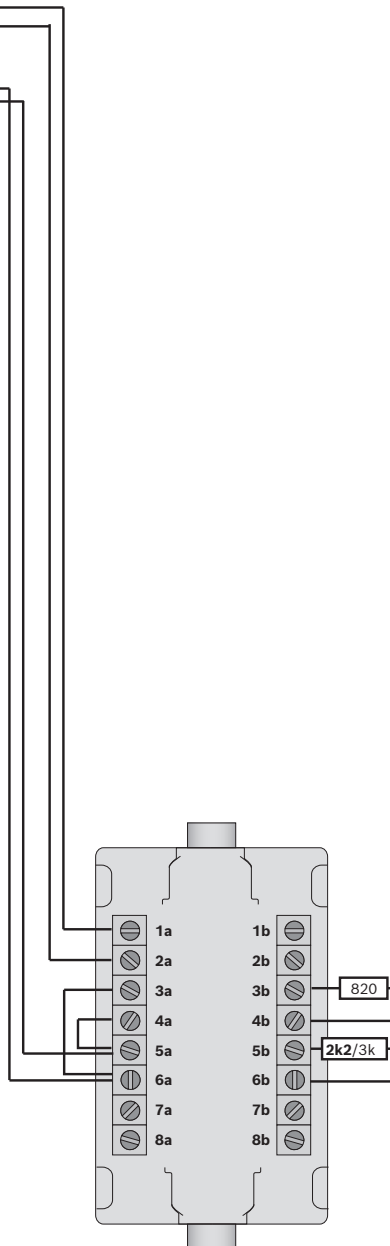
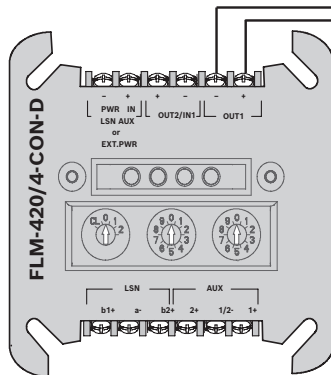


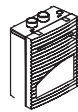


FCS-320-TM Series

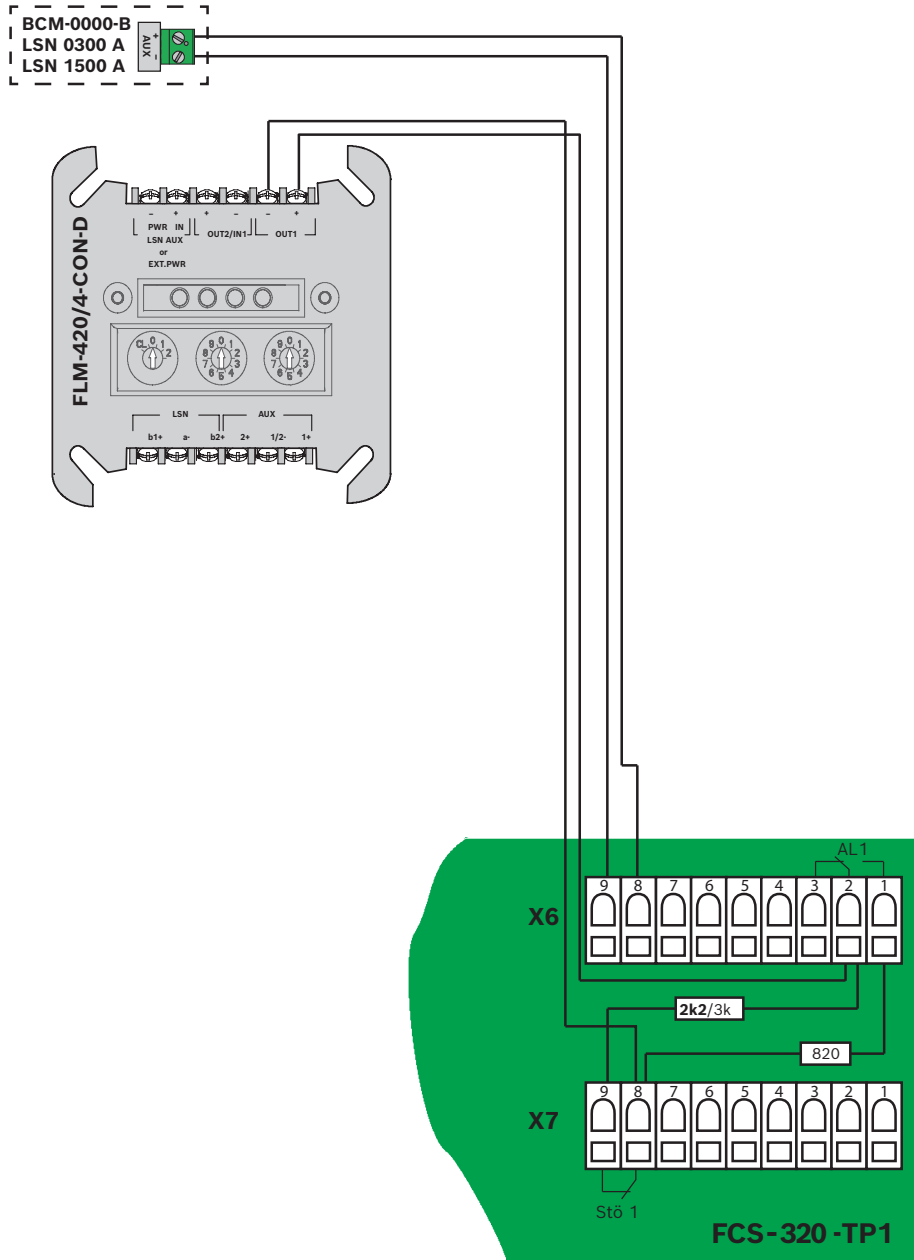
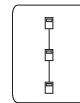


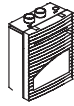
BCM-0000-B
LSN 0300 A
LSN 1500 A



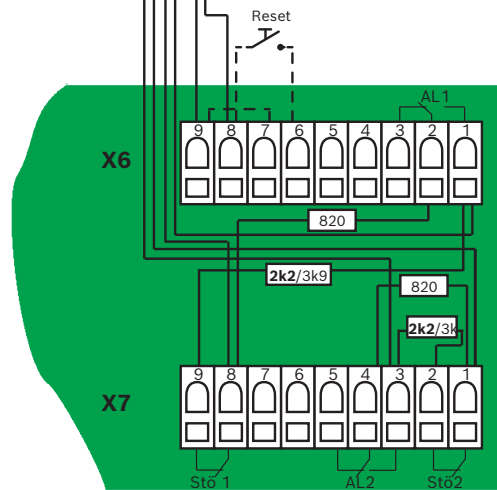
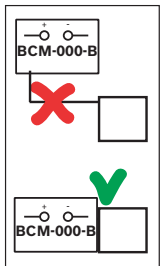
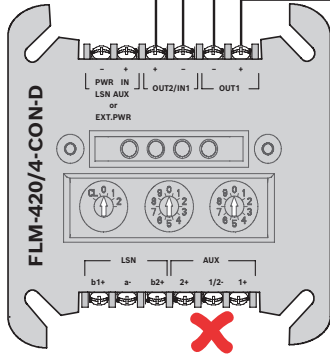
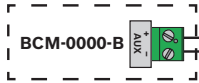


FCS-320-TP Series

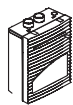




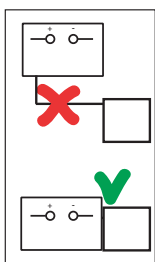
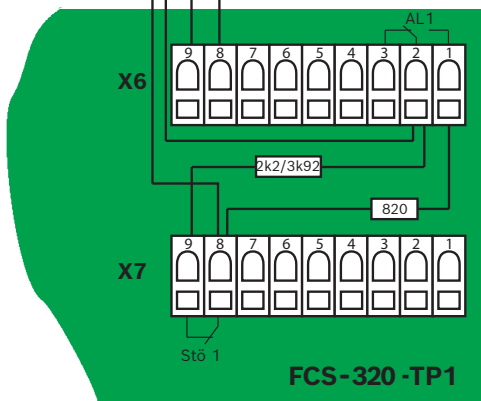
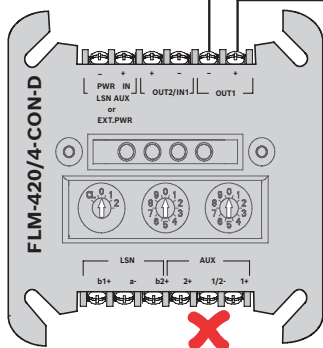
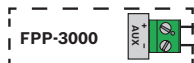
FCS-320-TP Series

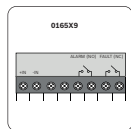


FCS-320-TP2

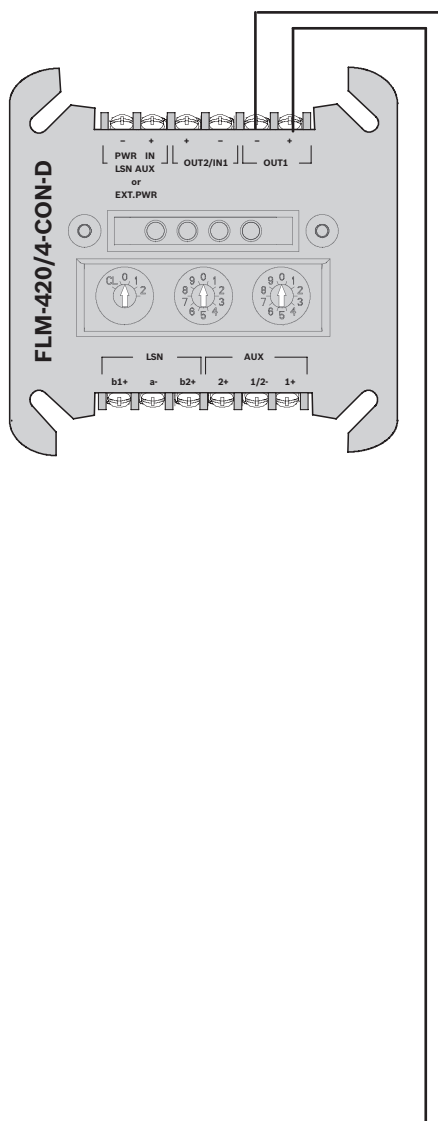
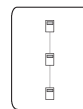


FCS-320-TP1

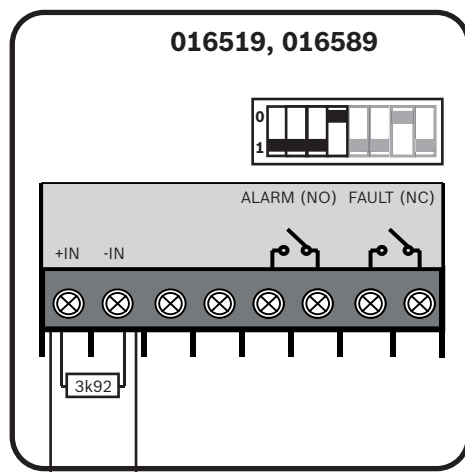


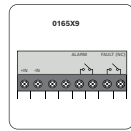


016519, 016589 IR3 Flame Detector

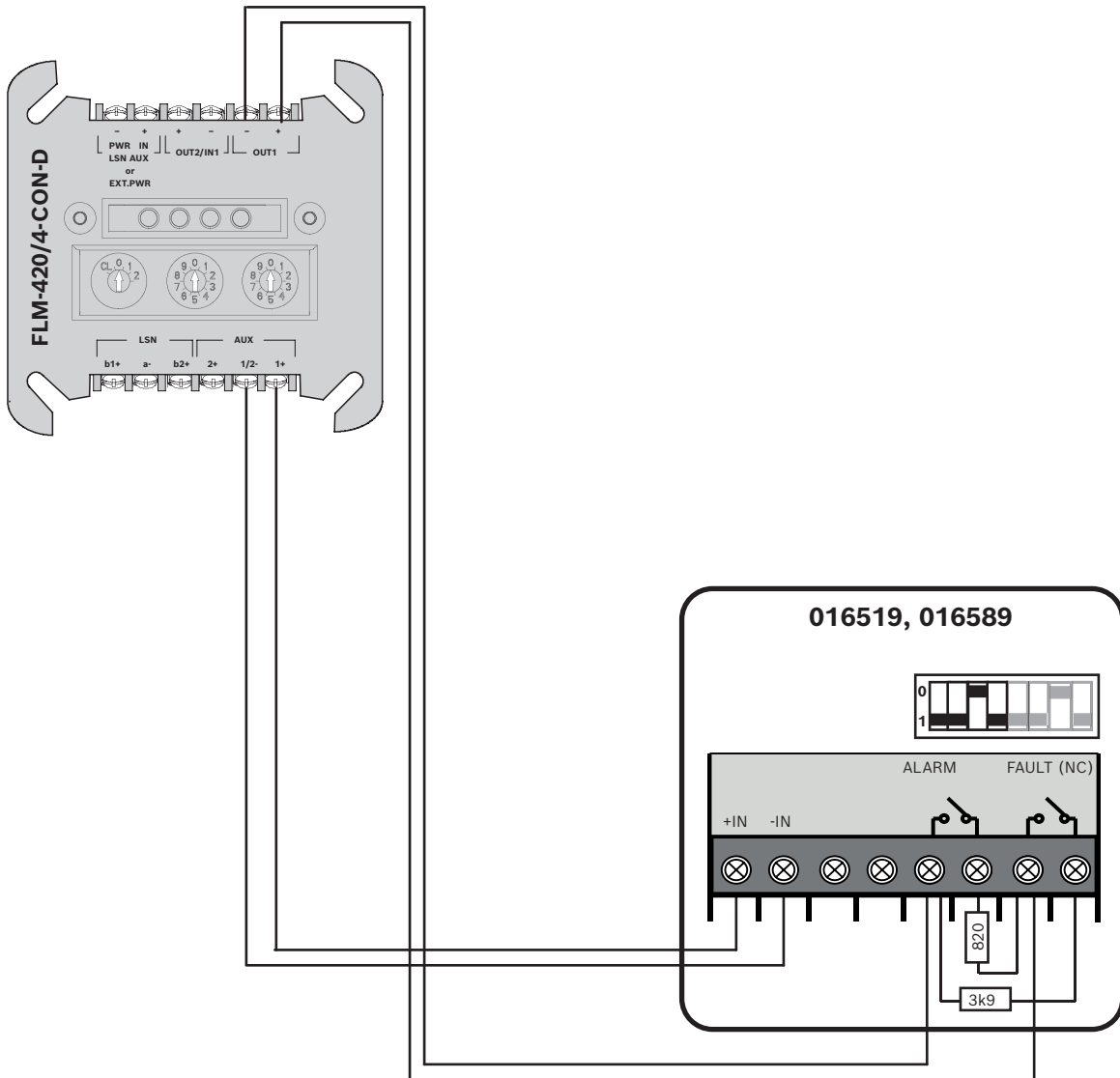
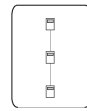


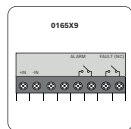
max. 1 x 0165X9



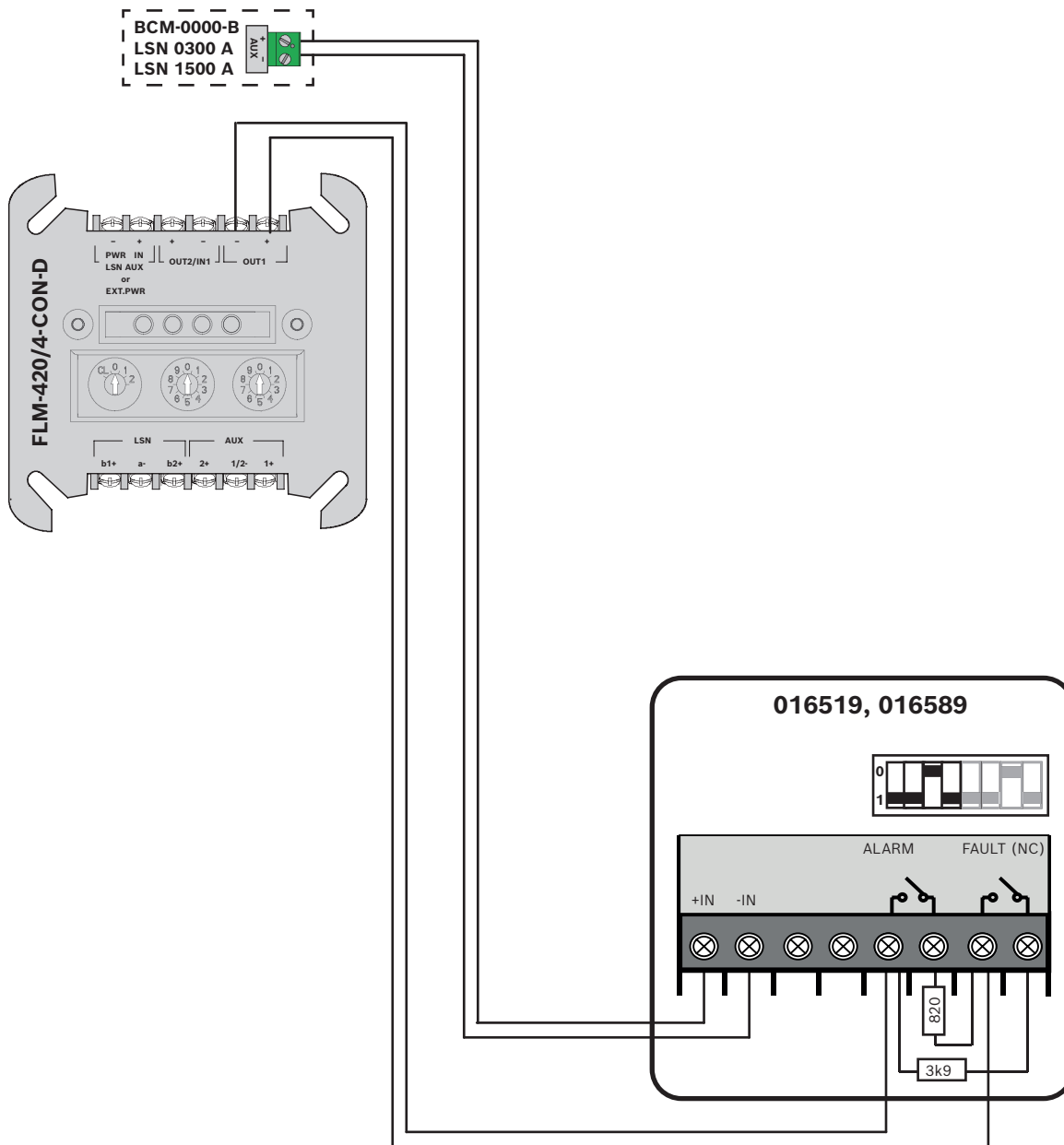
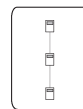


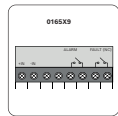
**016519, 016589
IR3 Flame Detector**



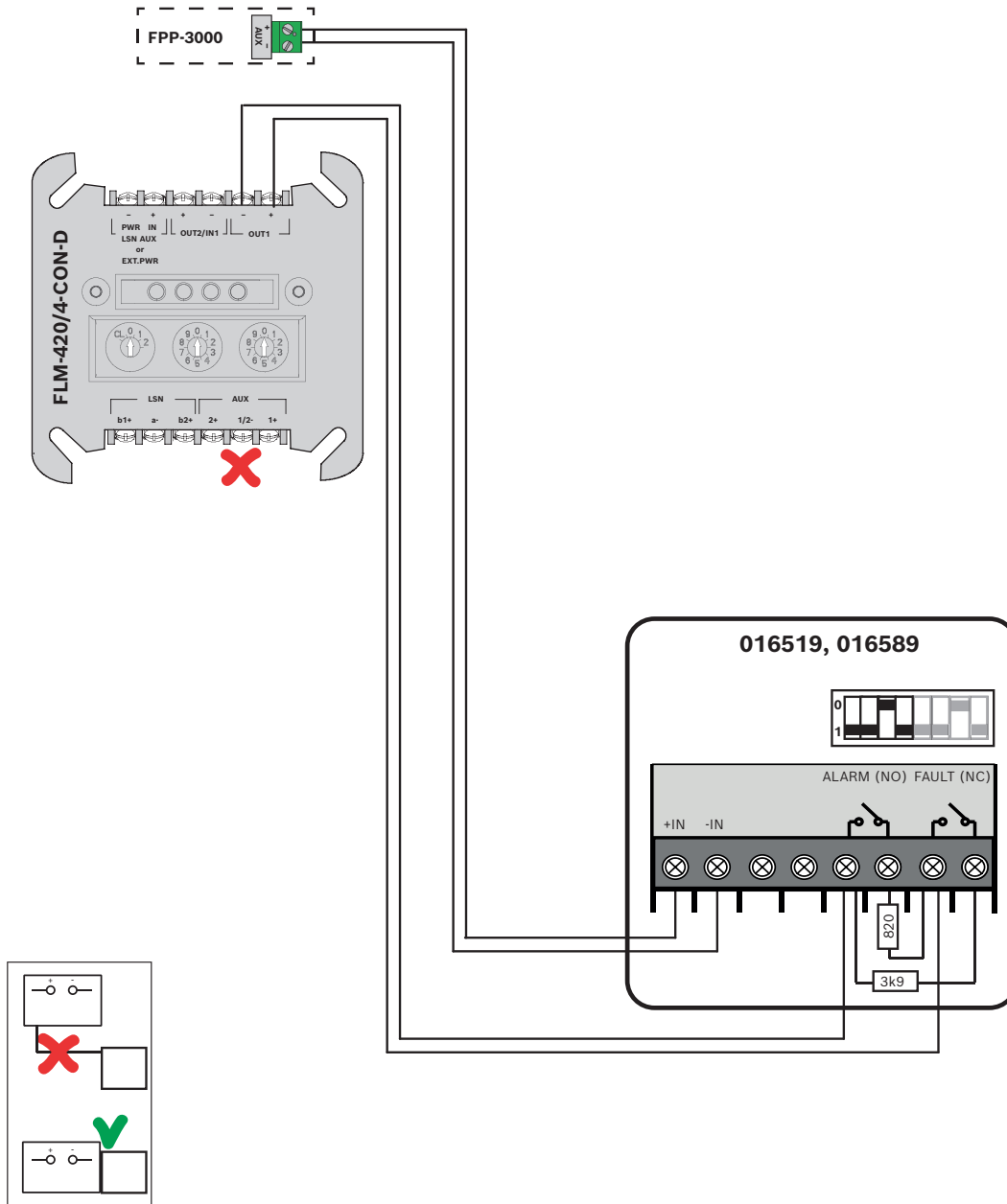


016519, 016589 IR3 Flame Detector



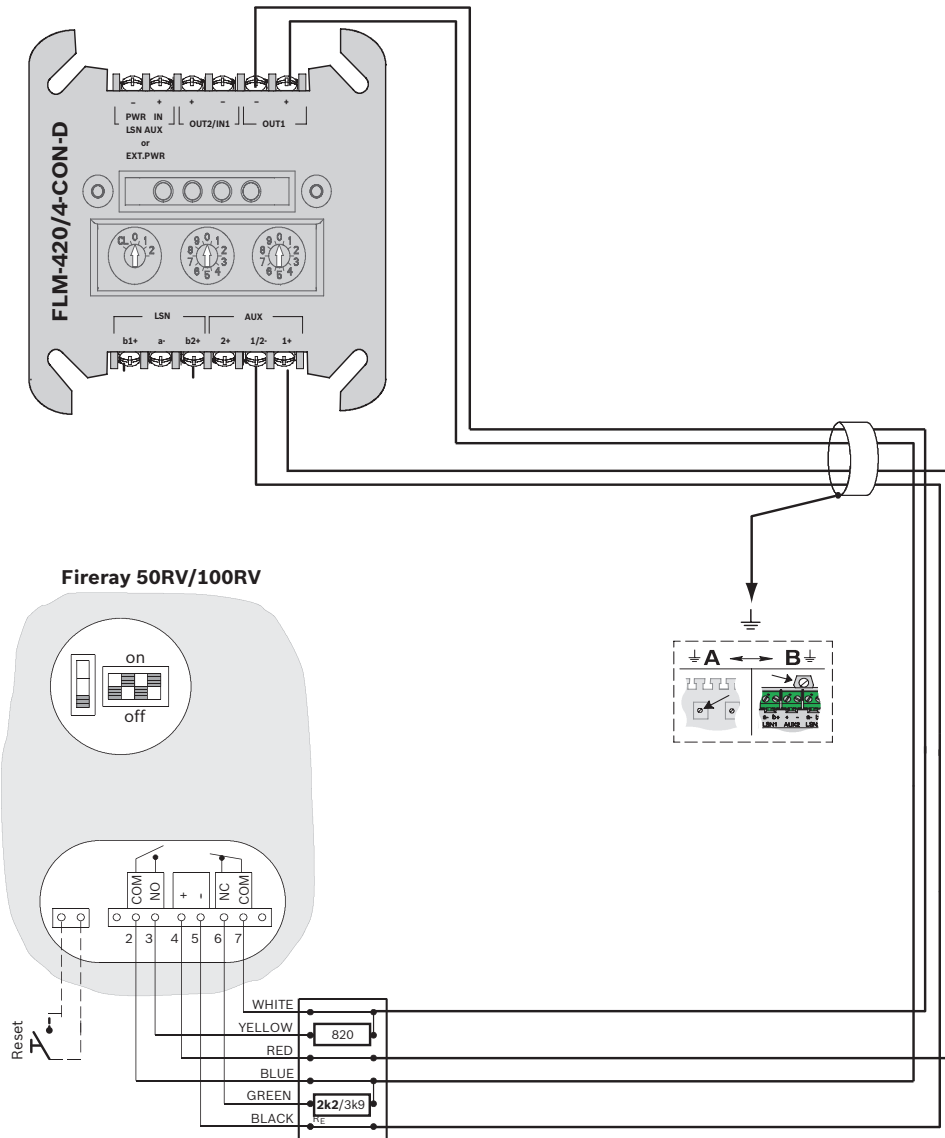


**016519, 016589
IR3 Flame Detector**





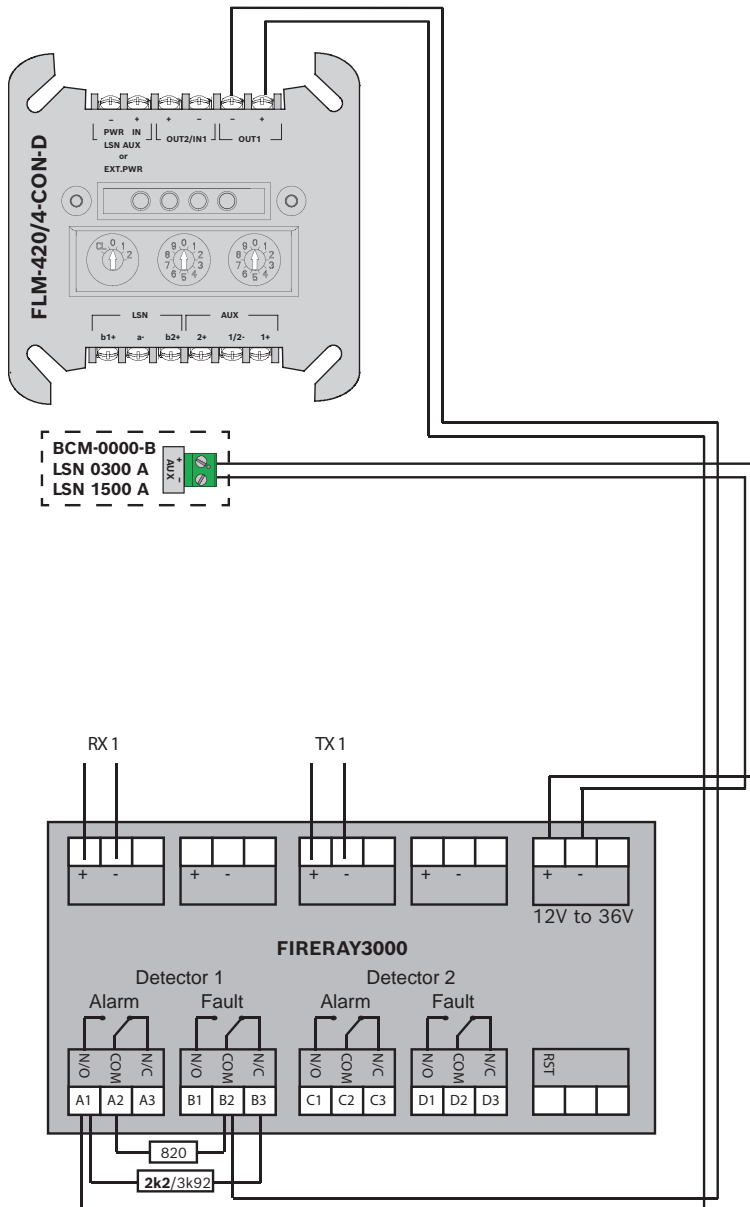
**Fireray 50RV
Fireray 100RV**





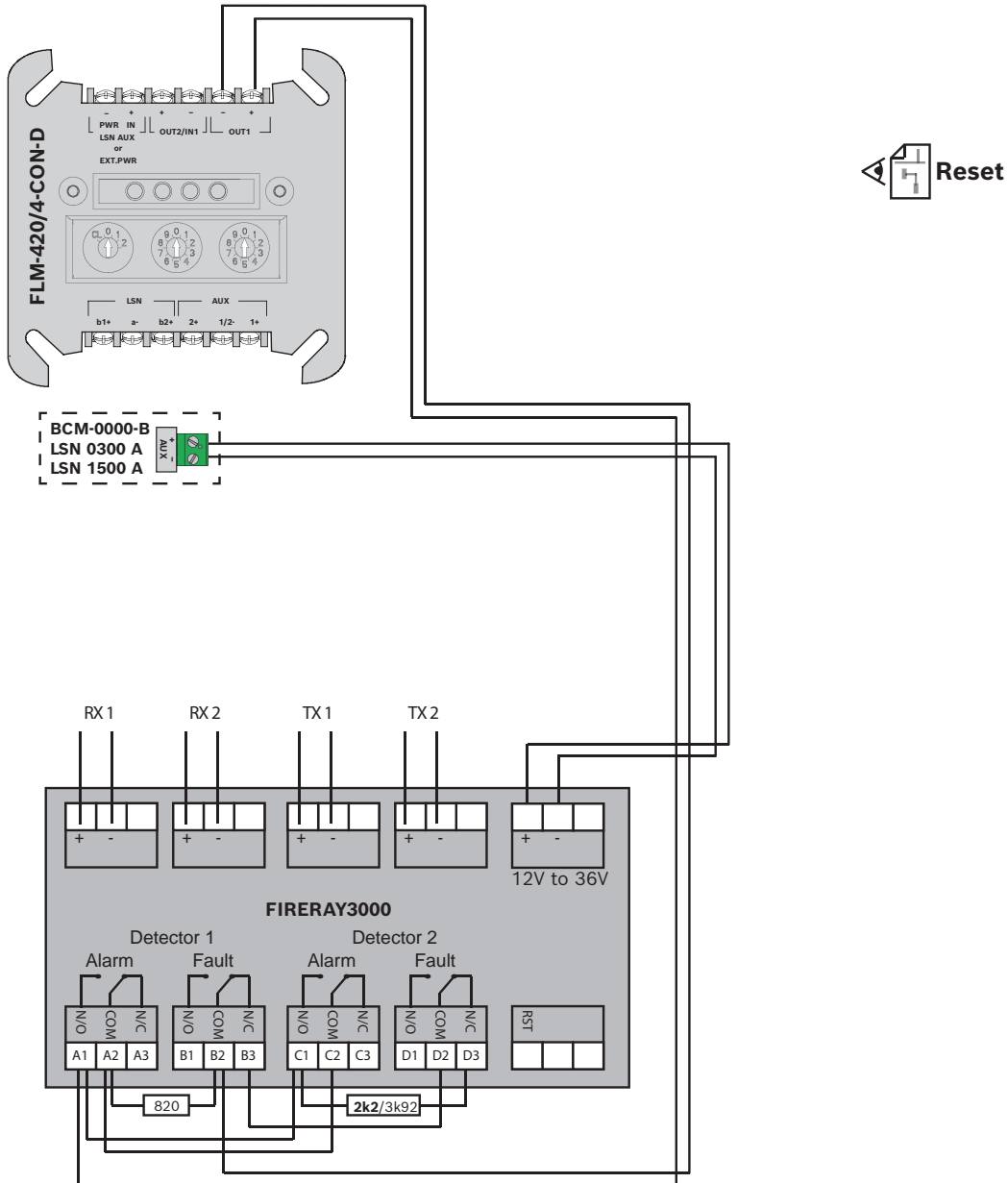
FIRERAY3000

1 x





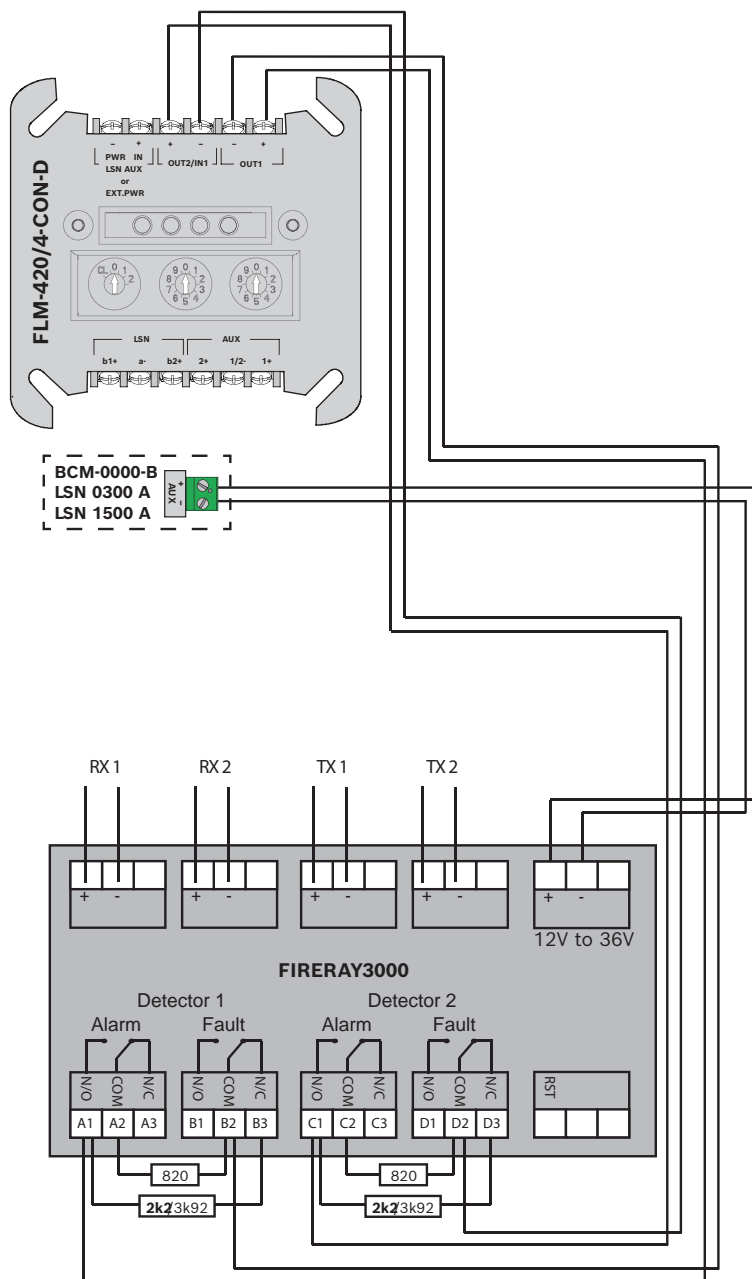
FIRERAY3000
2 x **OUT1**





FIRERAY3000

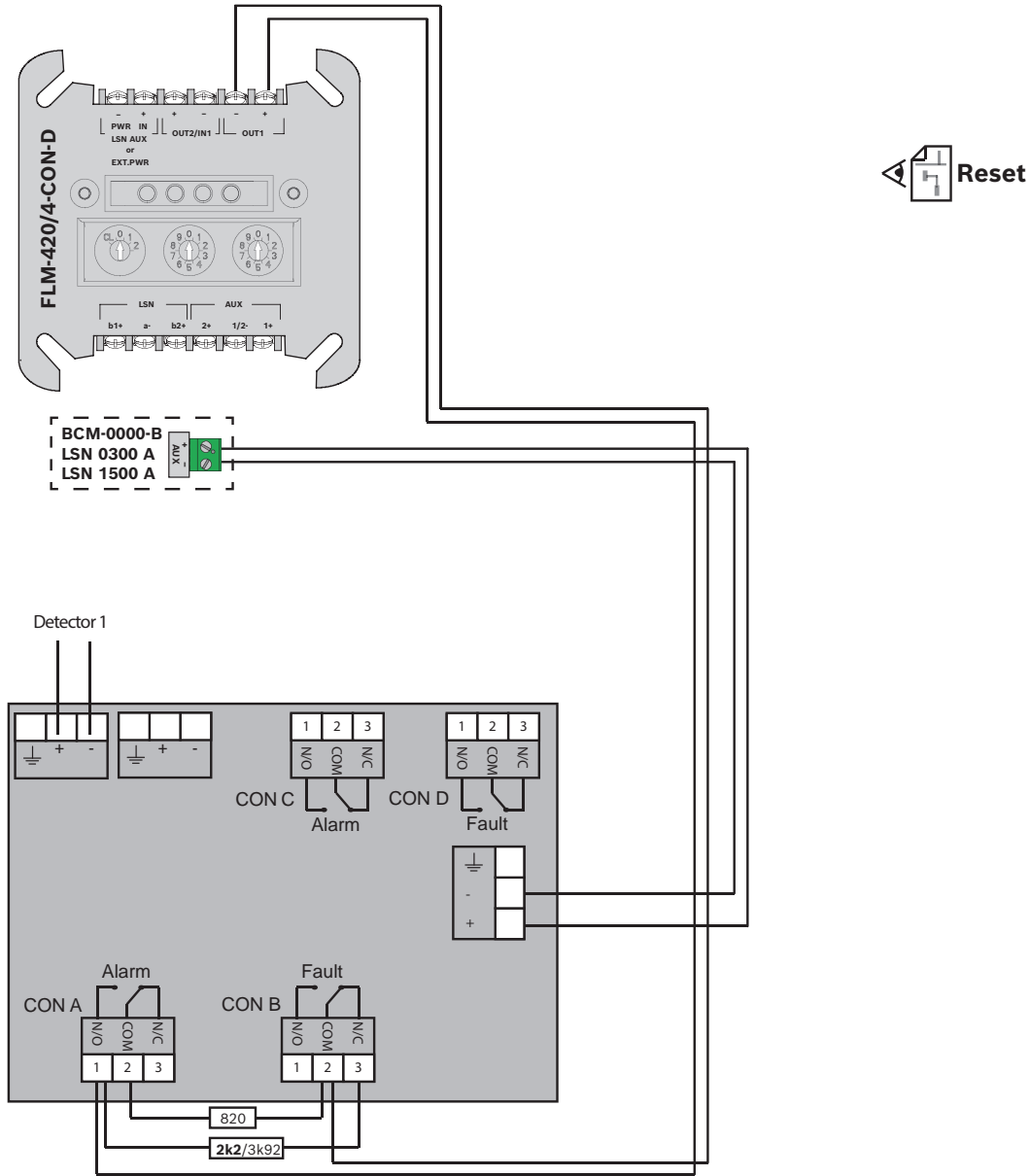
2 x  **OUT1+2**





FIRERAY5000

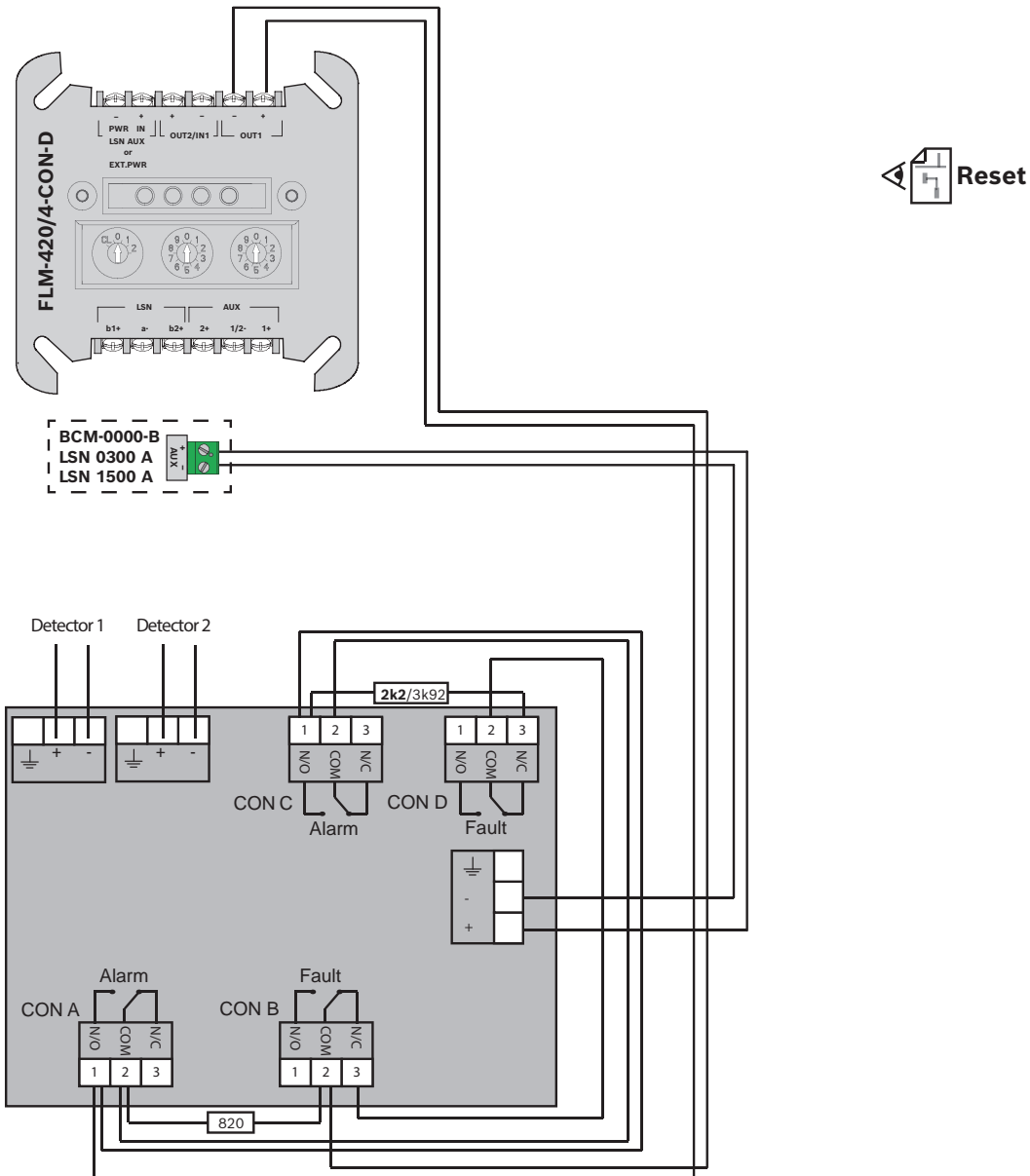
1 x





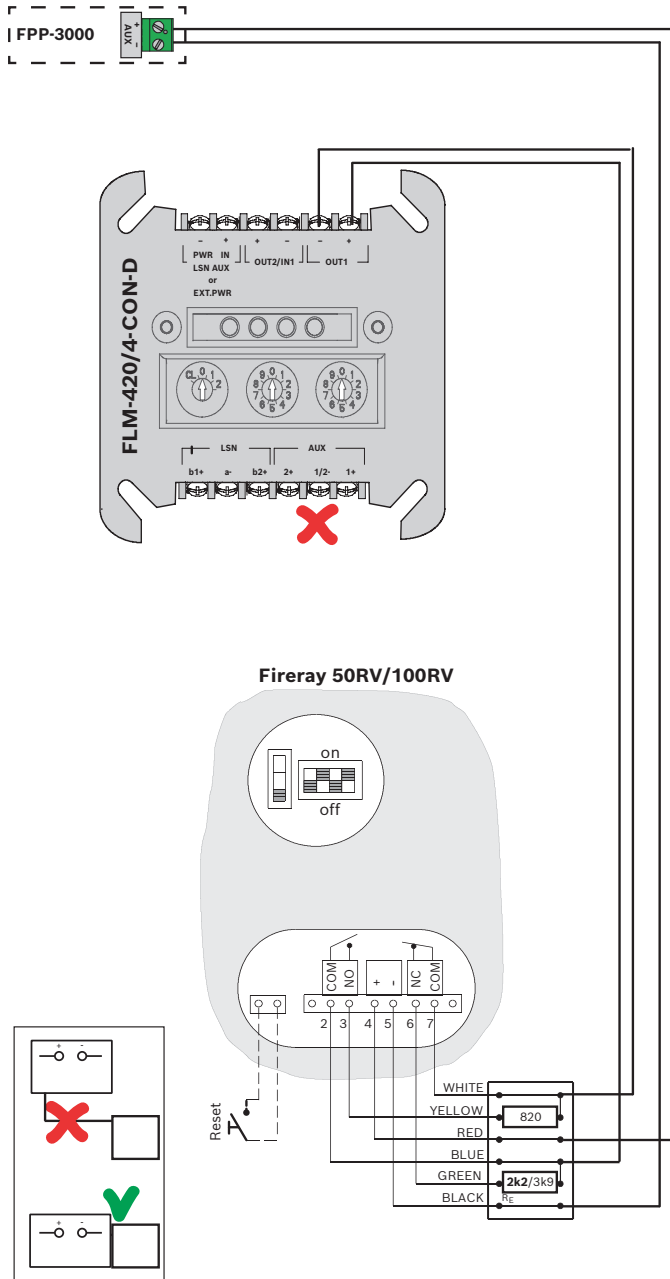
FIRERAY5000

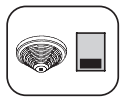
2 x OUT1





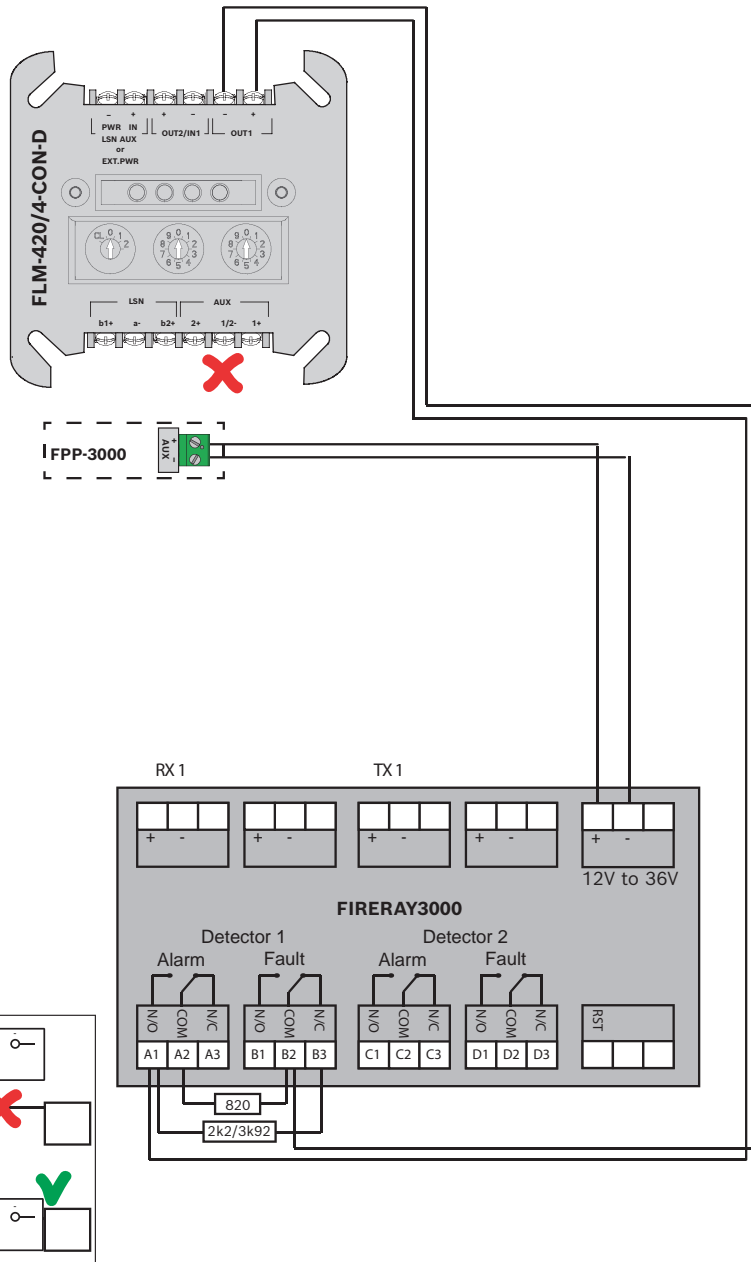
Fireray 50RV
Fireray 100RV





FIRERAY3000

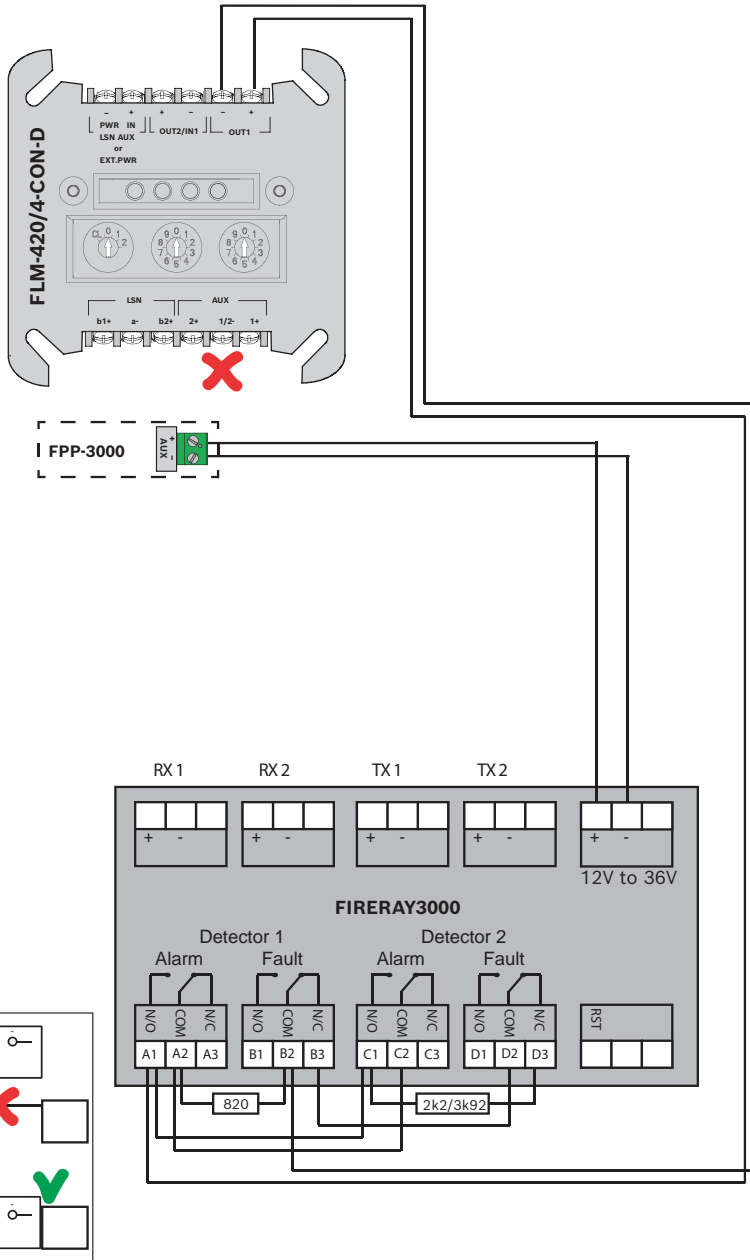
1 x



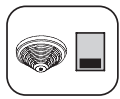
Reset action



FIRERAY3000
2 x  **OUT1**

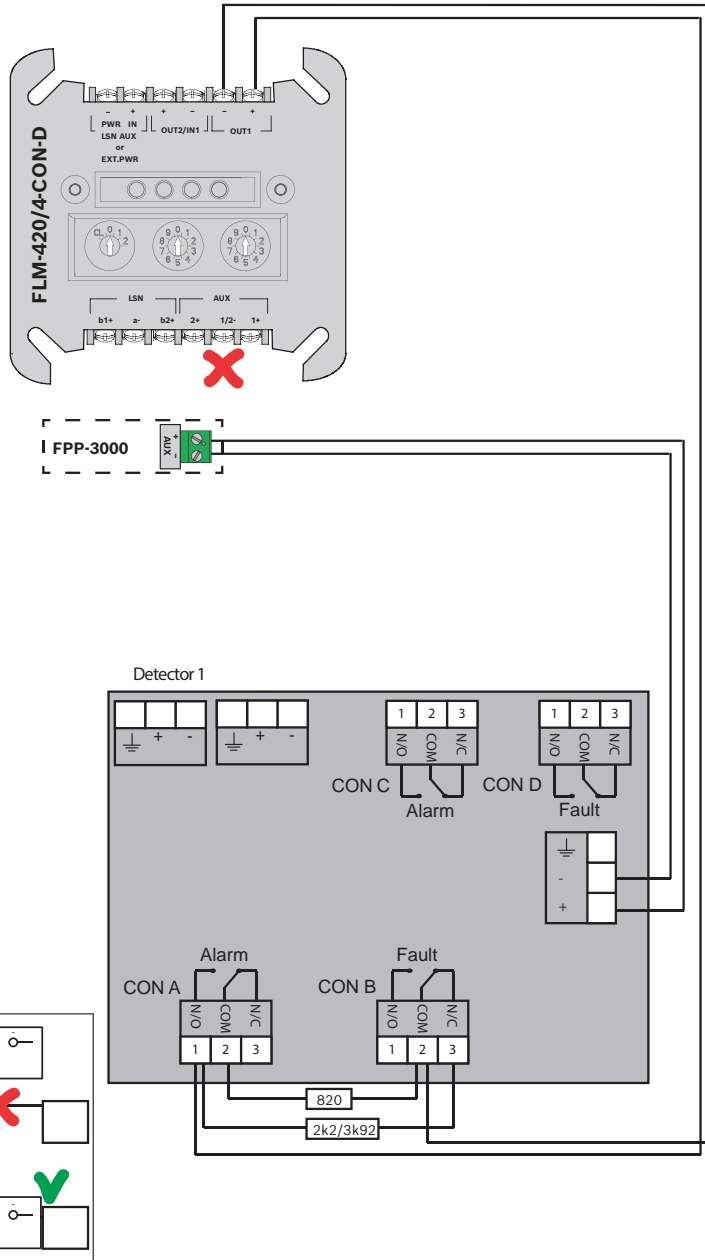


 **Reset action**



FIRERAY5000

1 x

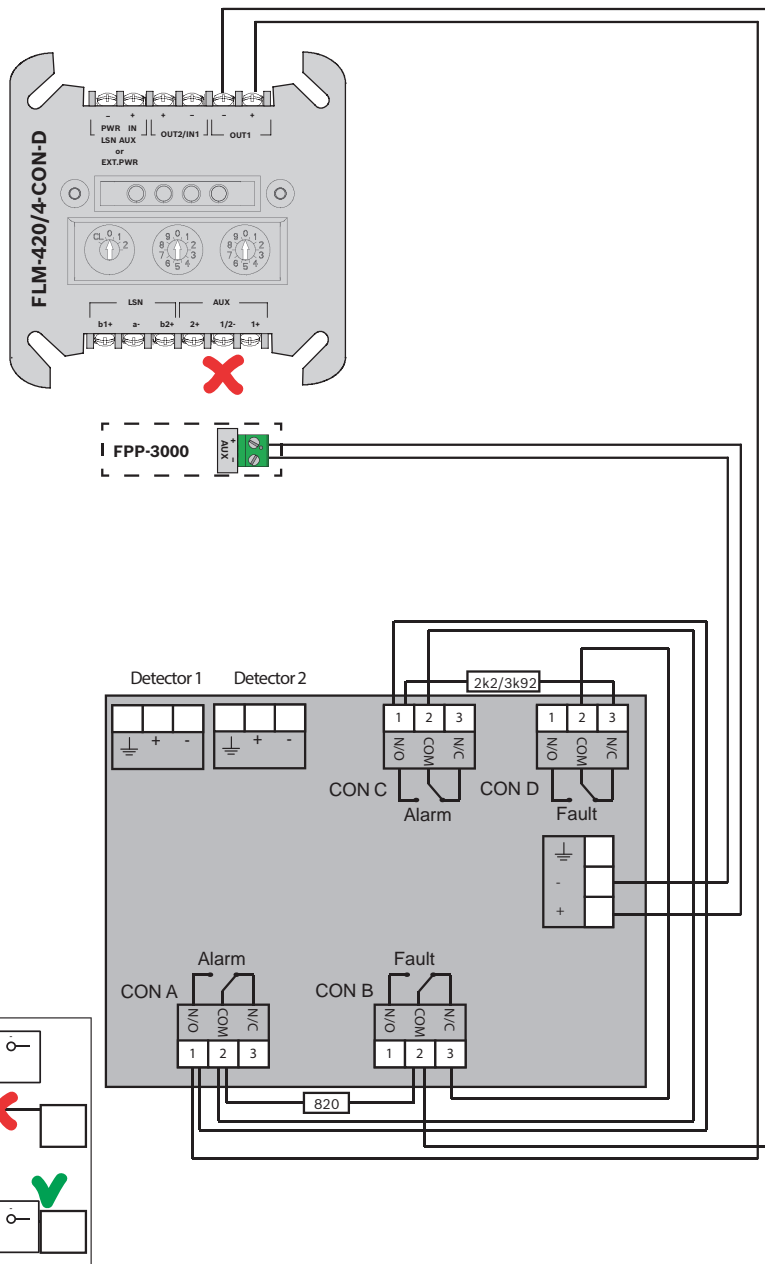


Reset action



FIRERAY5000

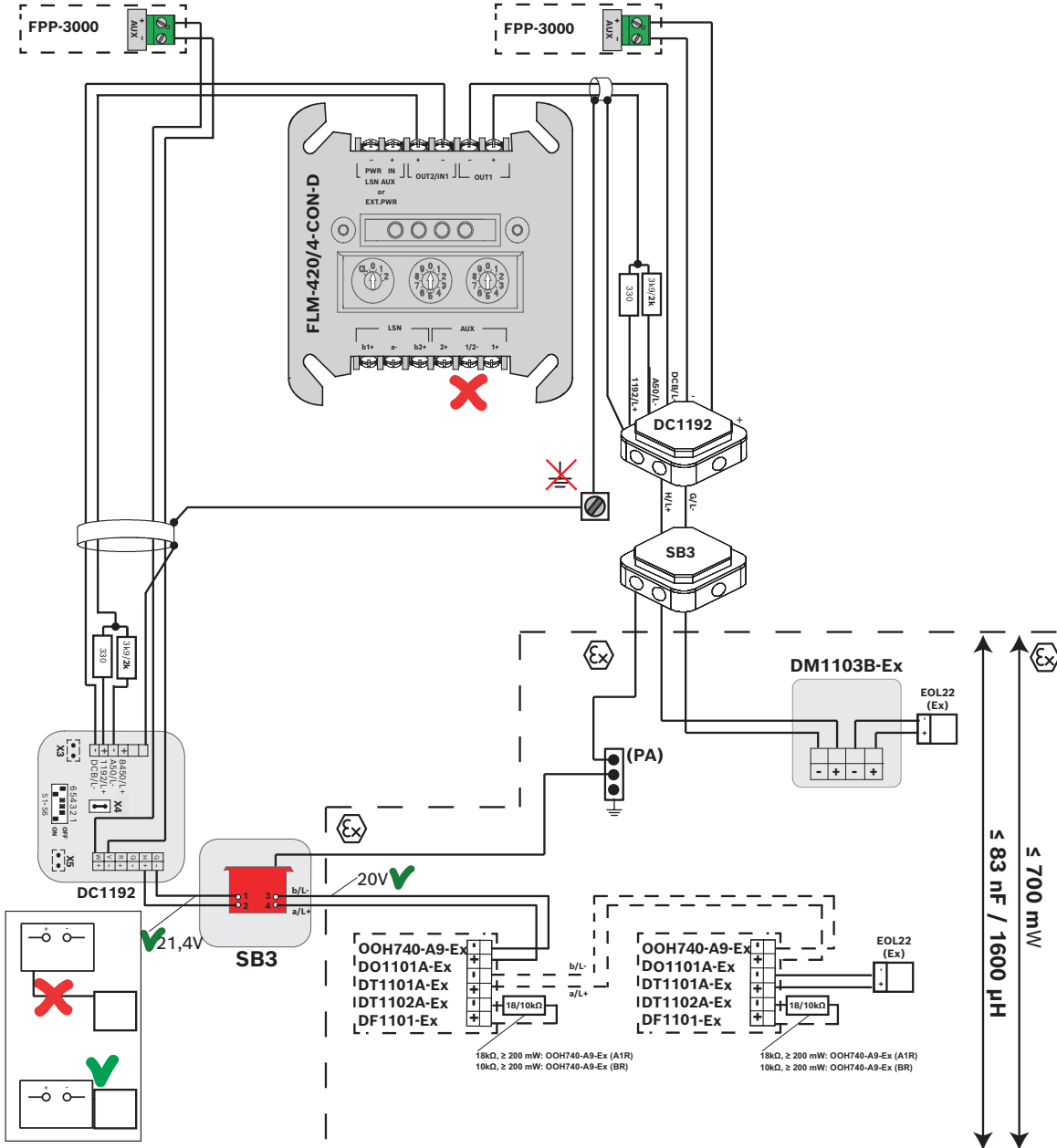
2 x OUT1

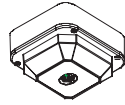


Reset action

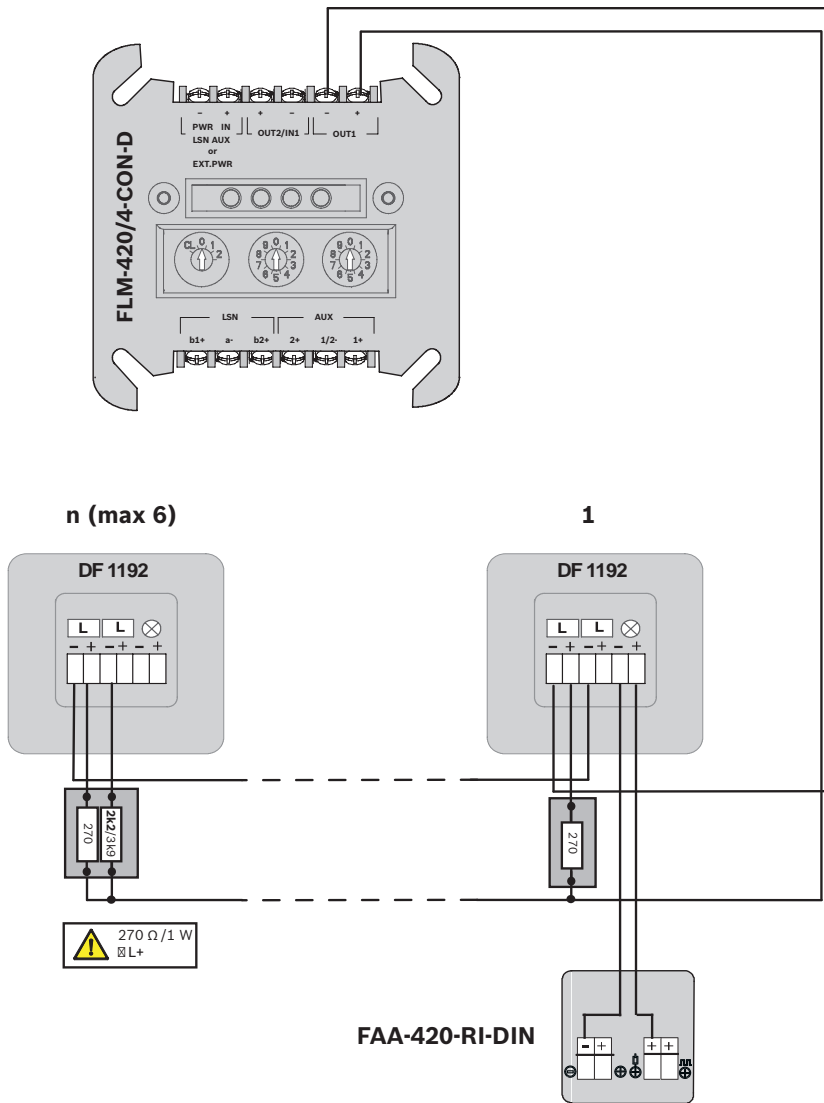


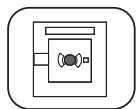
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



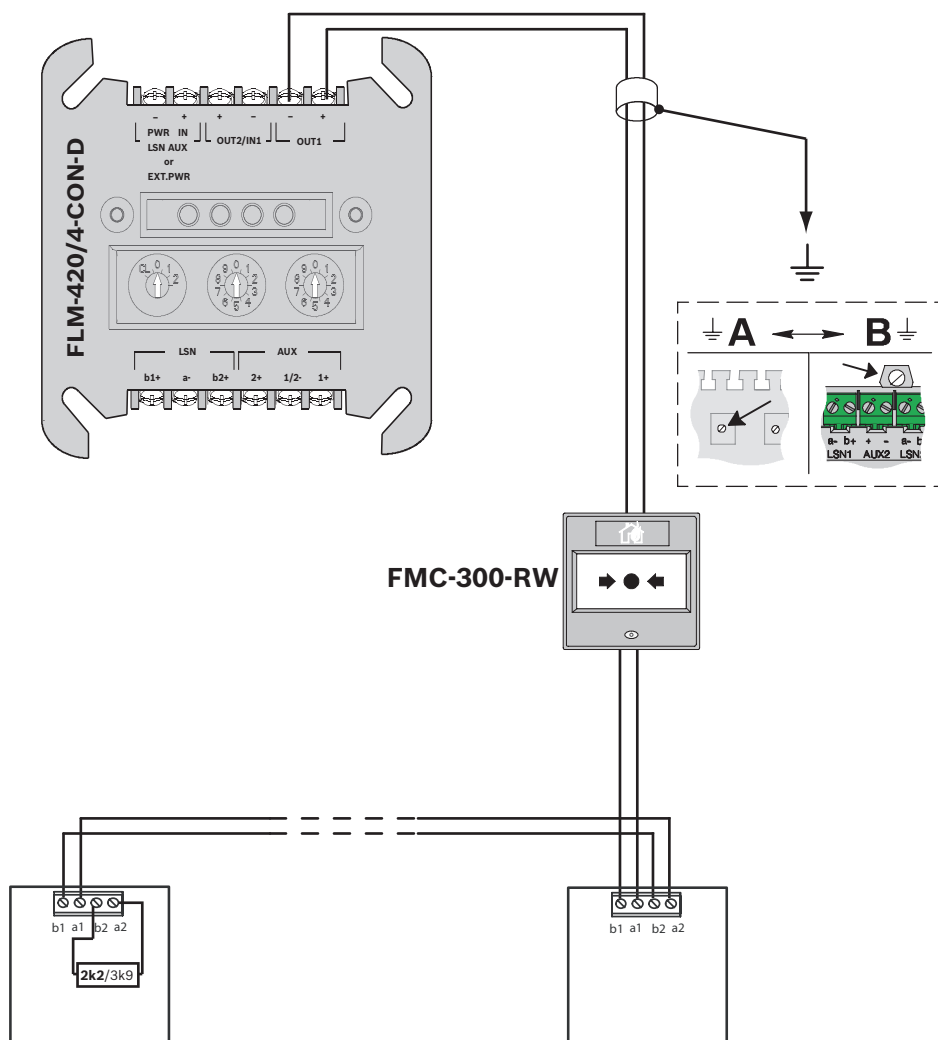
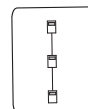


DF 1192



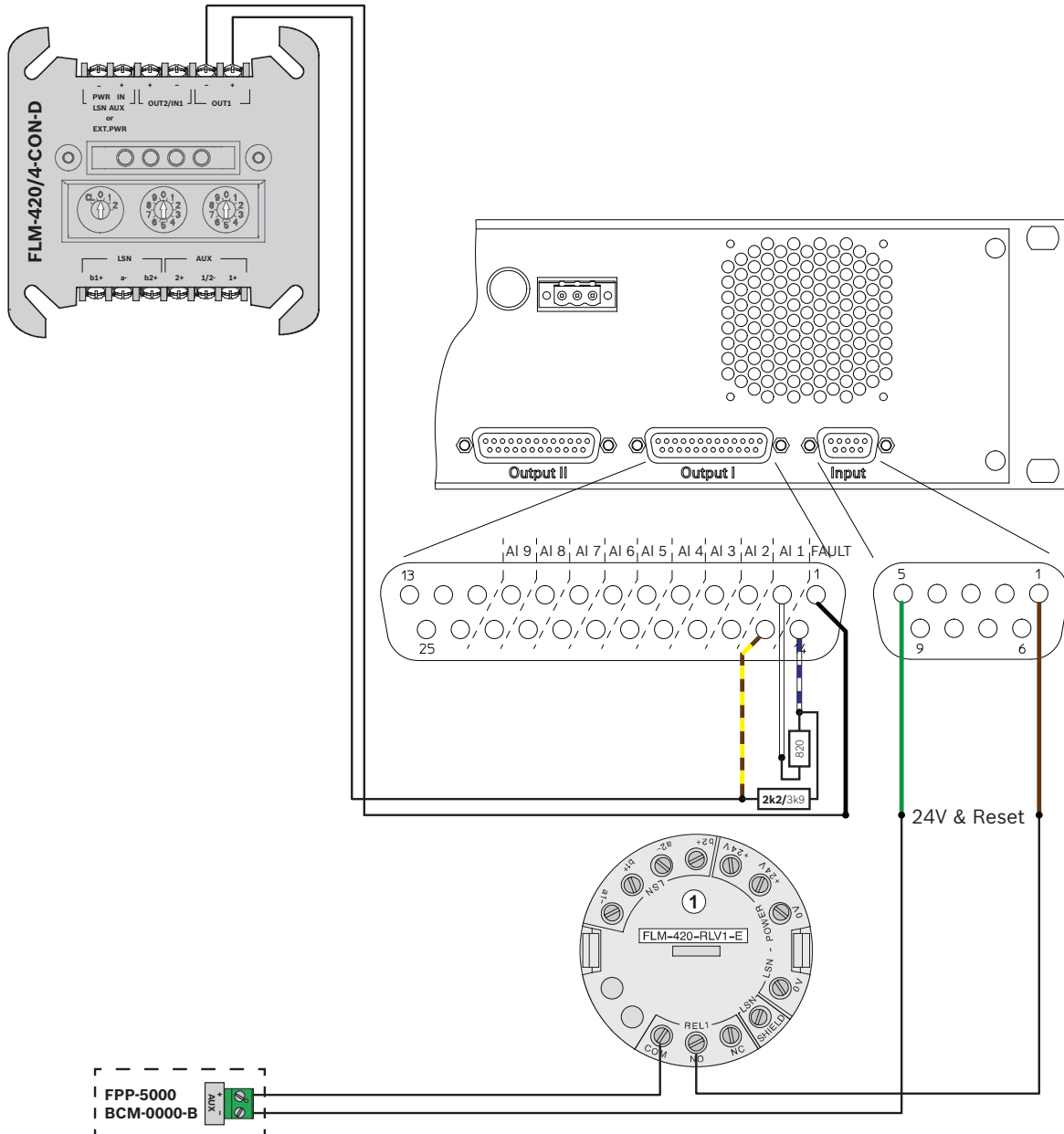


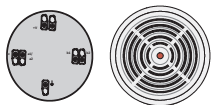
FMC-300-RW



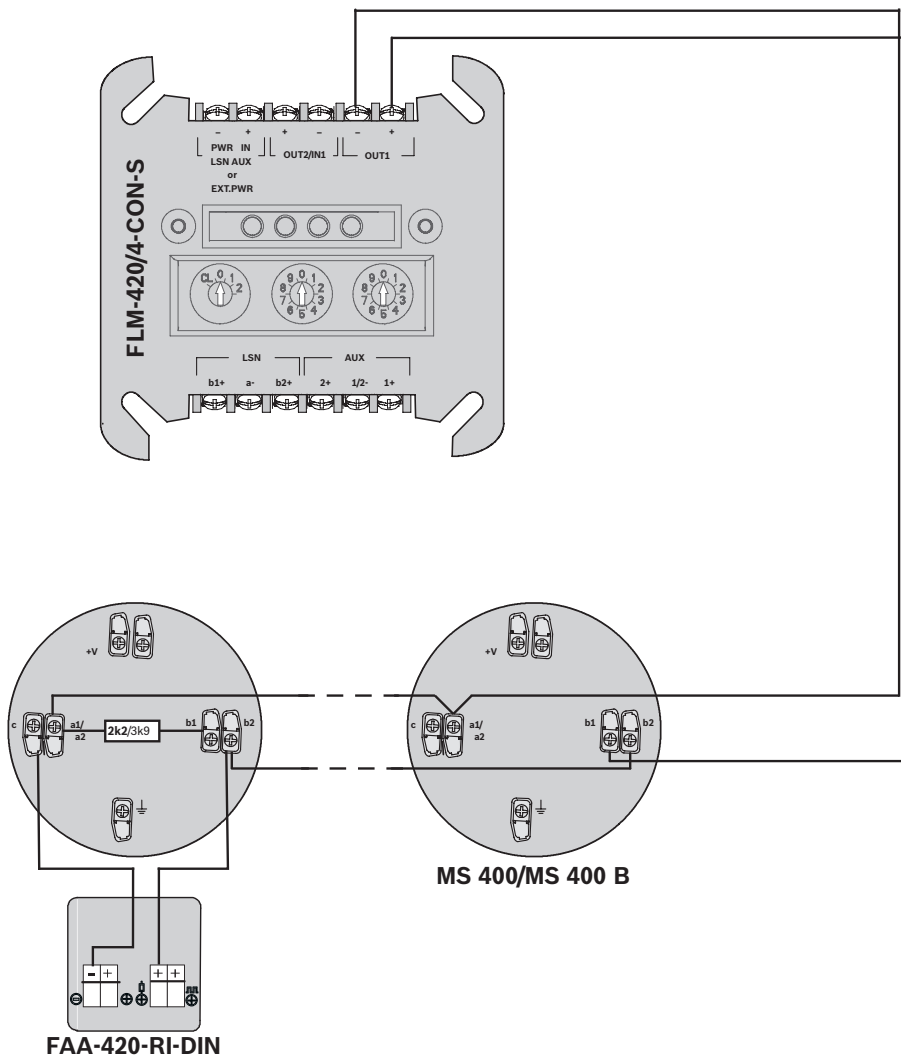


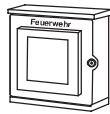
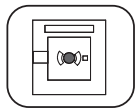
N4387A



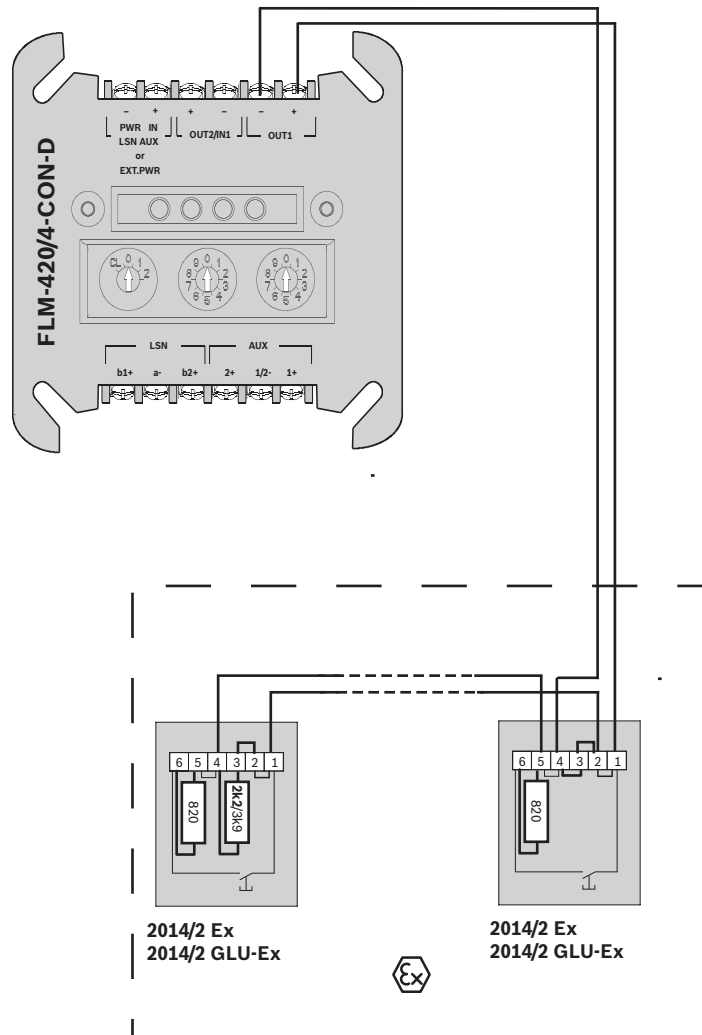
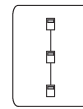


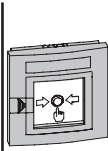
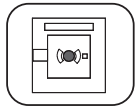
MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



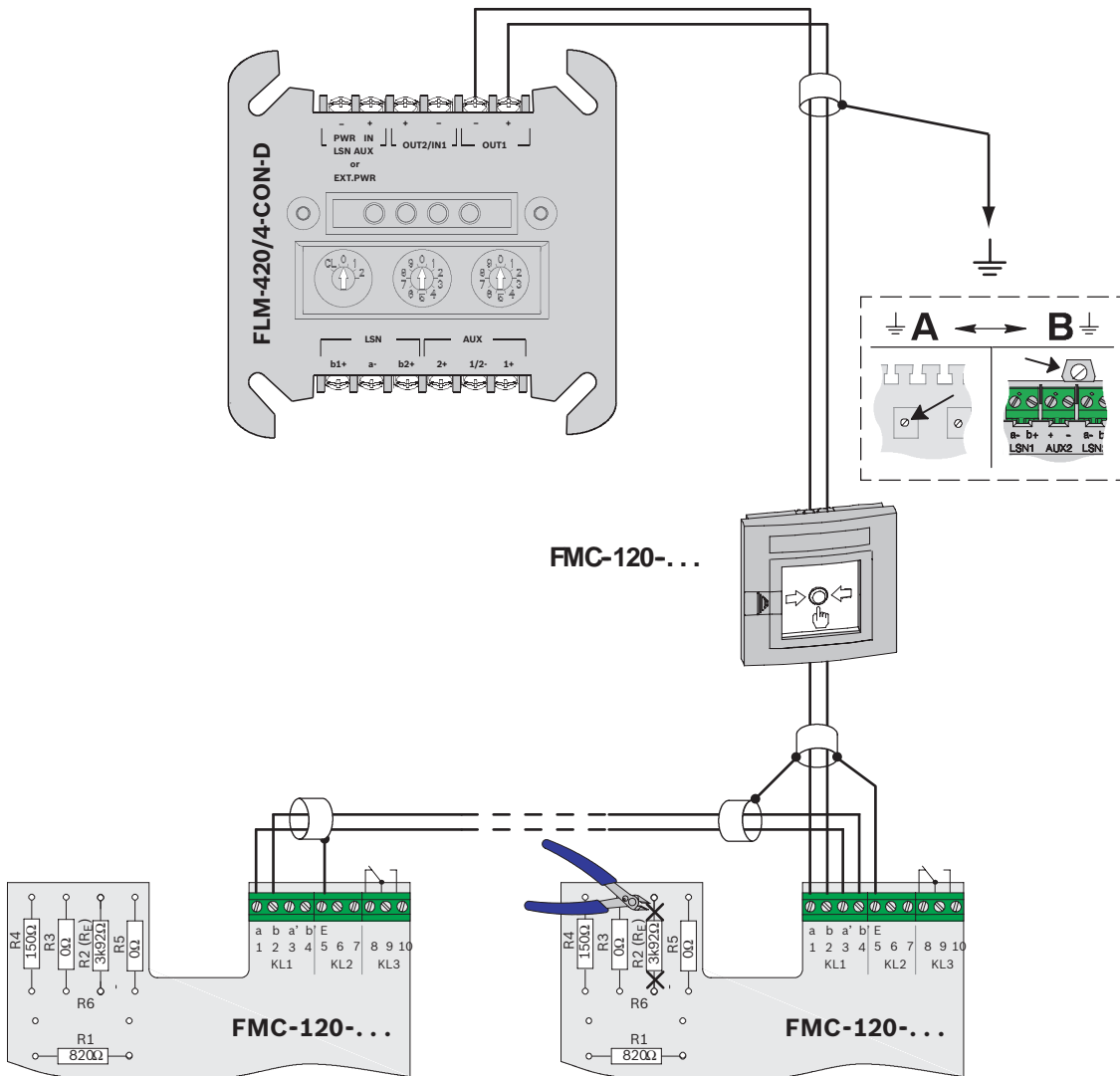
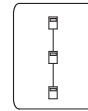


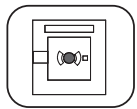
2014/2 Ex
2014/2 GLU-Ex



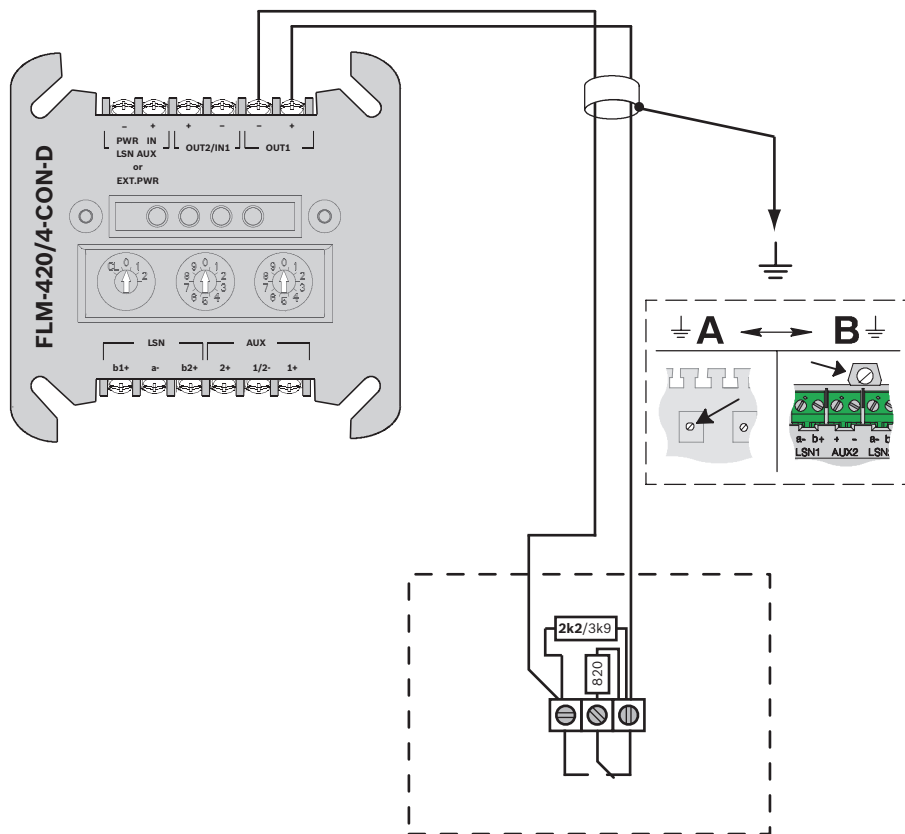
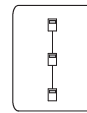


FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B



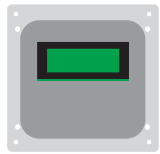


NO



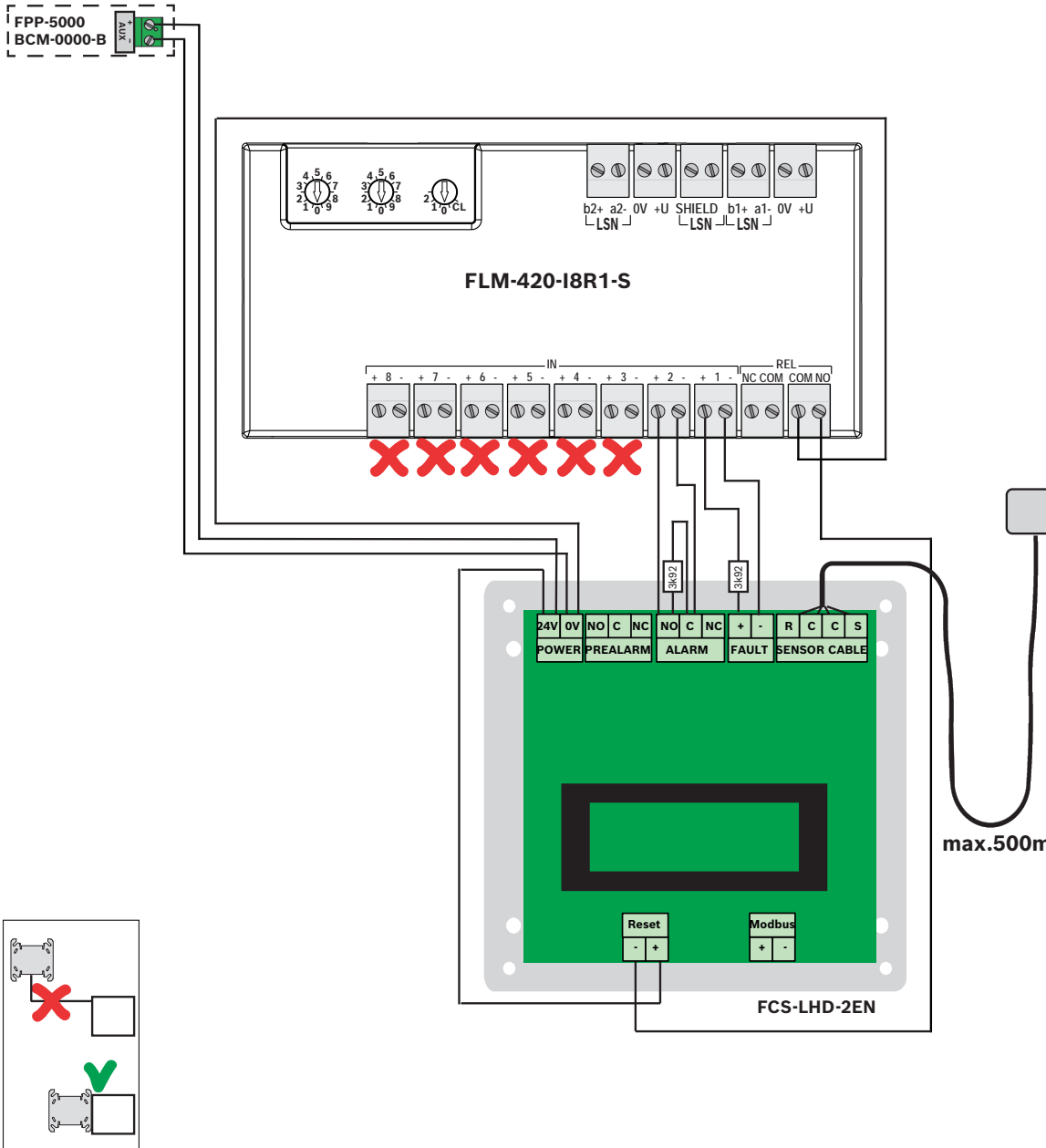
2.5.2

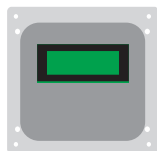
FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





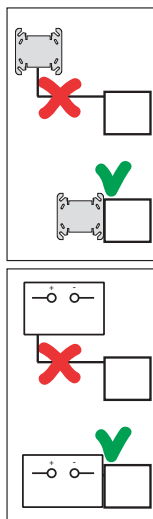
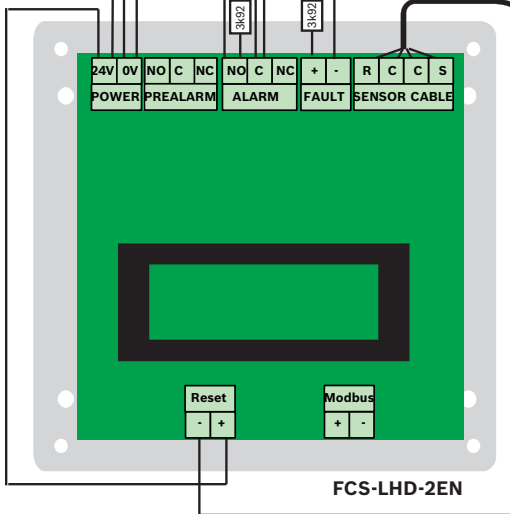
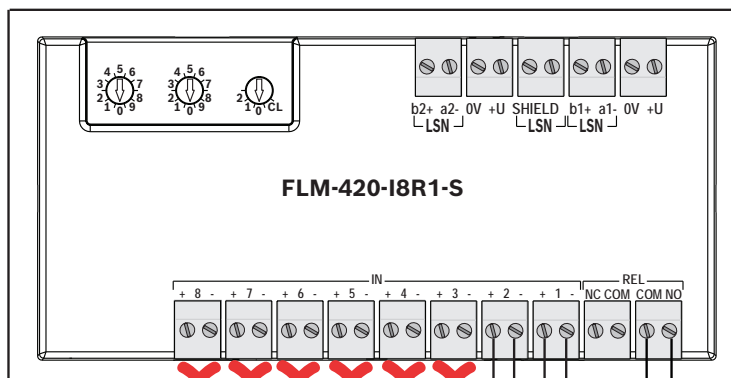
ProReact EN Analogue

FCS-LHD-2EN

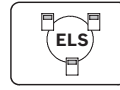


ELS

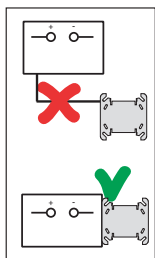
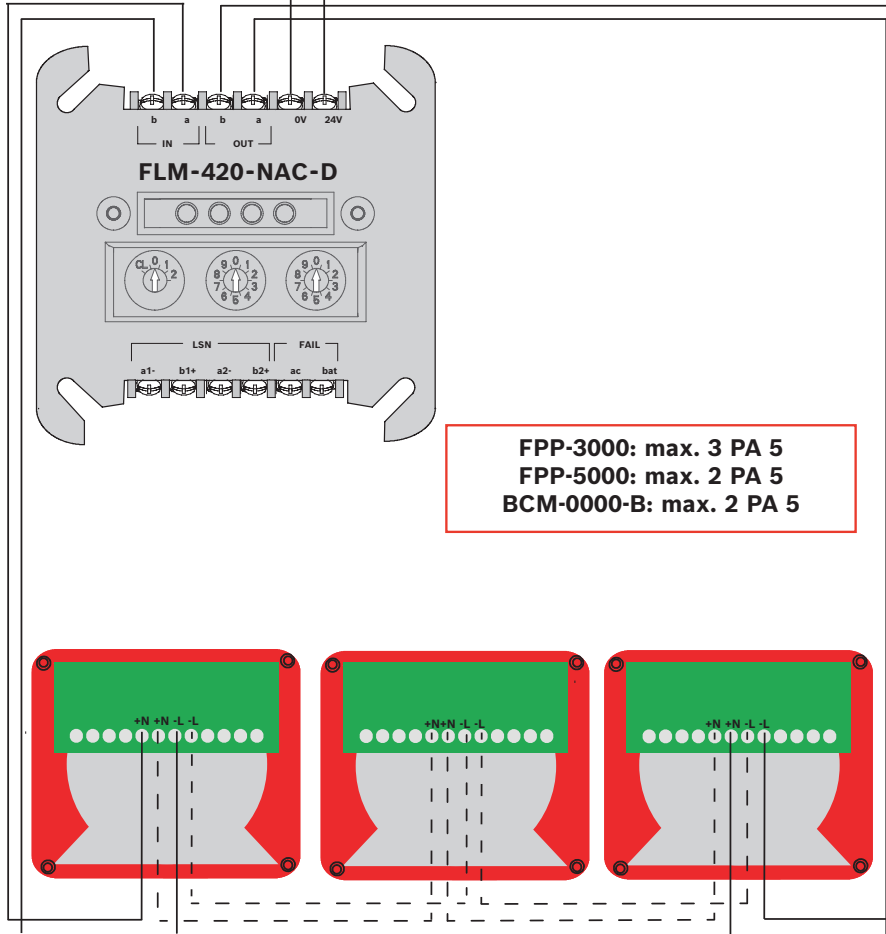
FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B



2.5.3 FLM-420-NAC-D/S

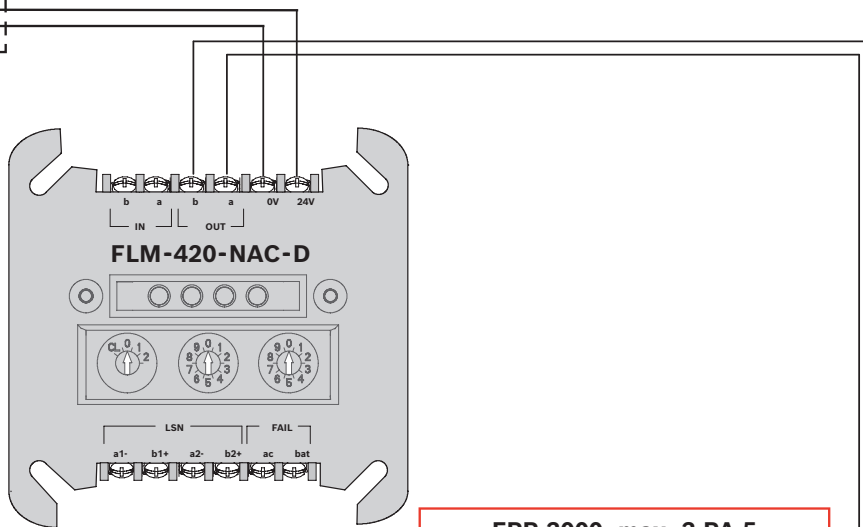


FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B

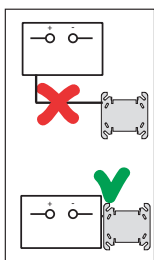
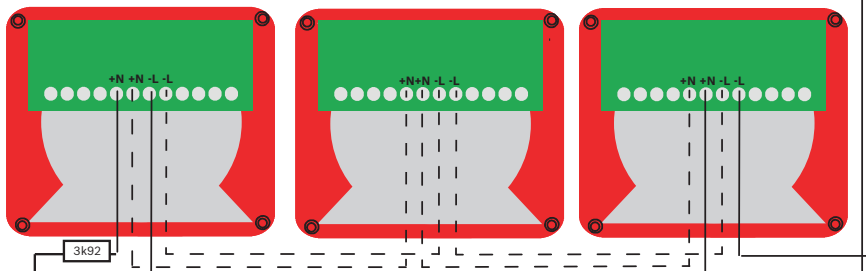


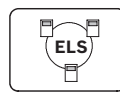


FPP-3000
FPP-5000
BCM-0000-B

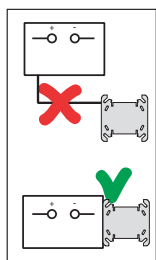
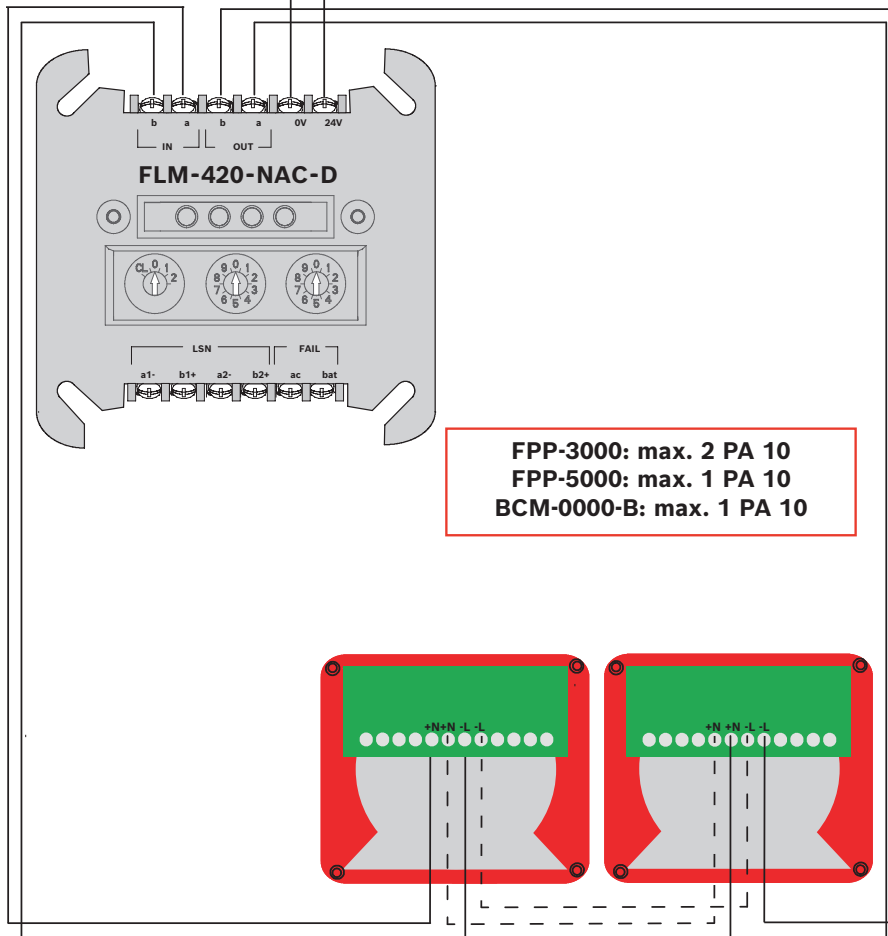


FPP-3000: max. 3 PA 5
FPP-5000: max. 2 PA 5
BCM-0000-B: max. 2 PA 5



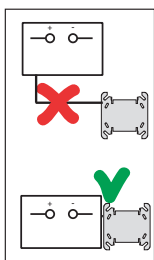
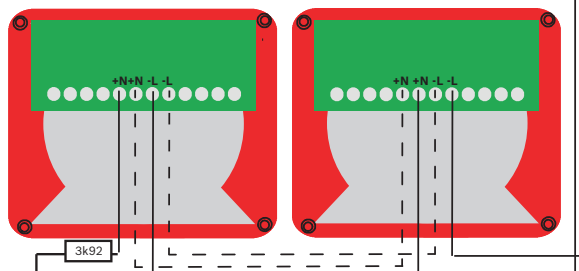
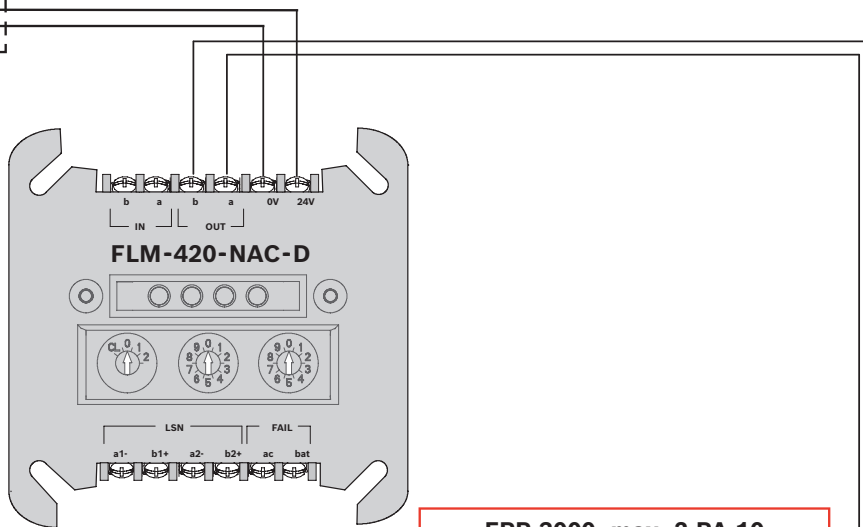


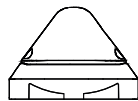
FPP-3000(ZSP135-DR)
 FPP-5000
 BCM-0000-B



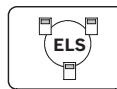


FPP-3000
FPP-5000
BCM-0000-B

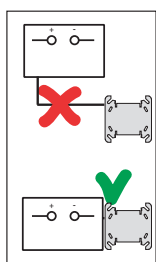
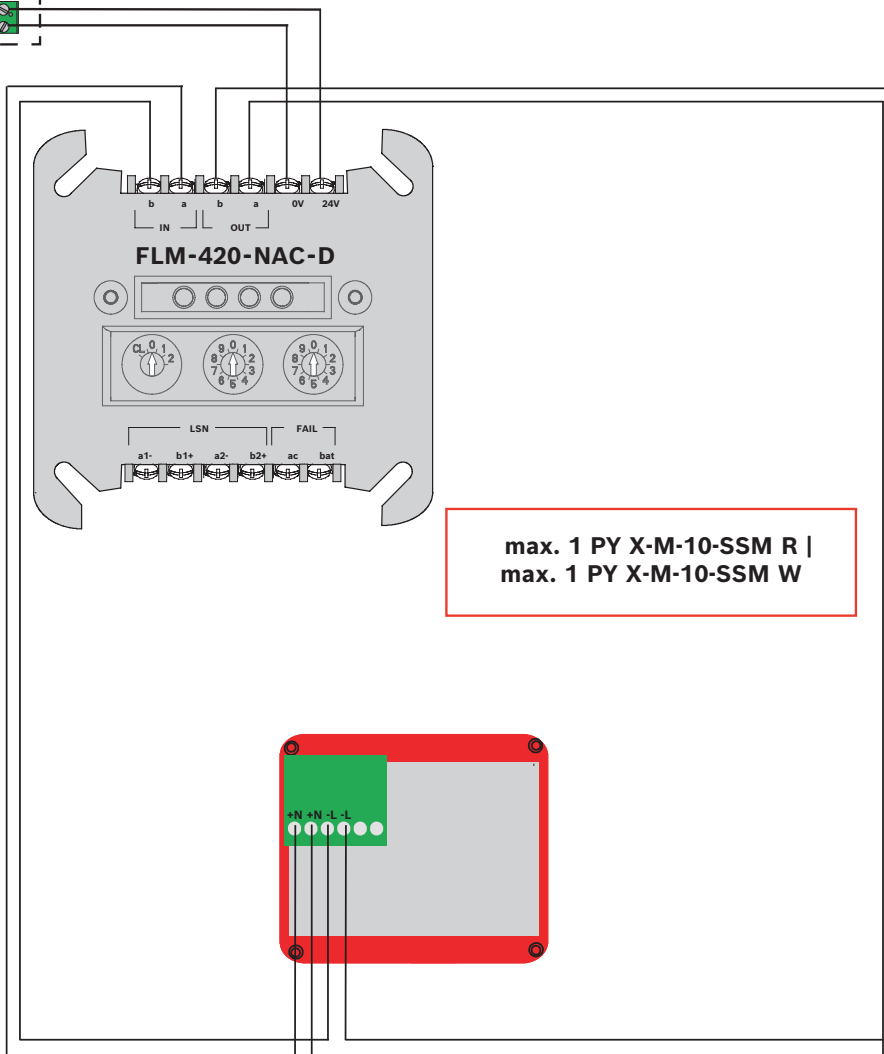


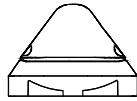


PY X-M-10-SSM R
PY X-M-10-SSM W



FPP-3000(ZSP-135-DR)
FPP-5000
BCM-0000-B

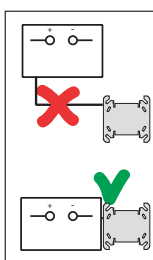
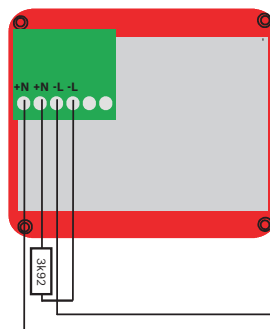
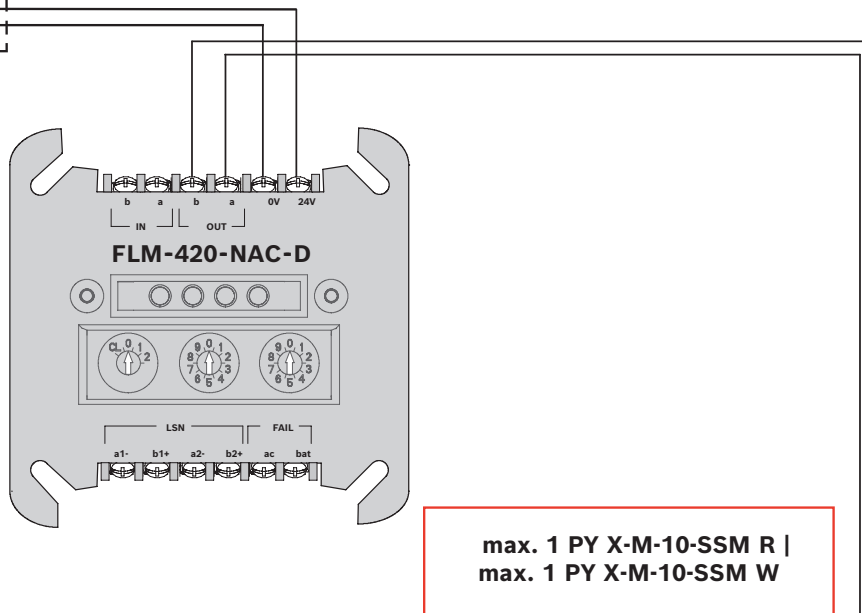




PY X-M-10-SSM R
PY X-M-10-SSM W

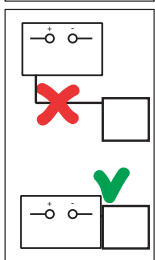
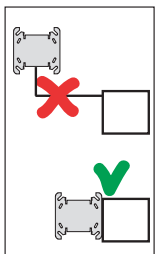
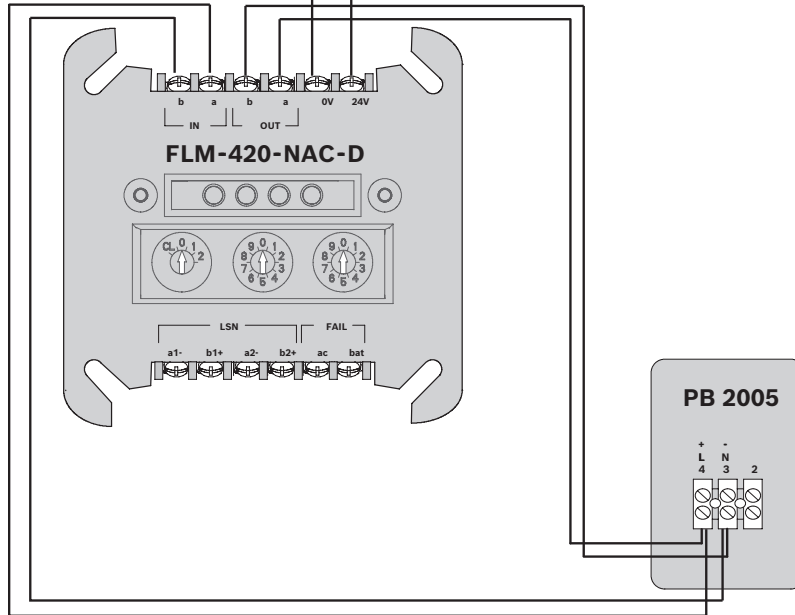
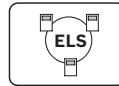


FPP-3000
FPP-5000
BCM-0000-B





PB 2005

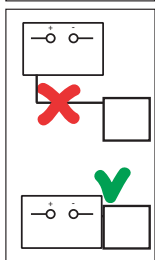
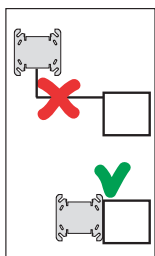
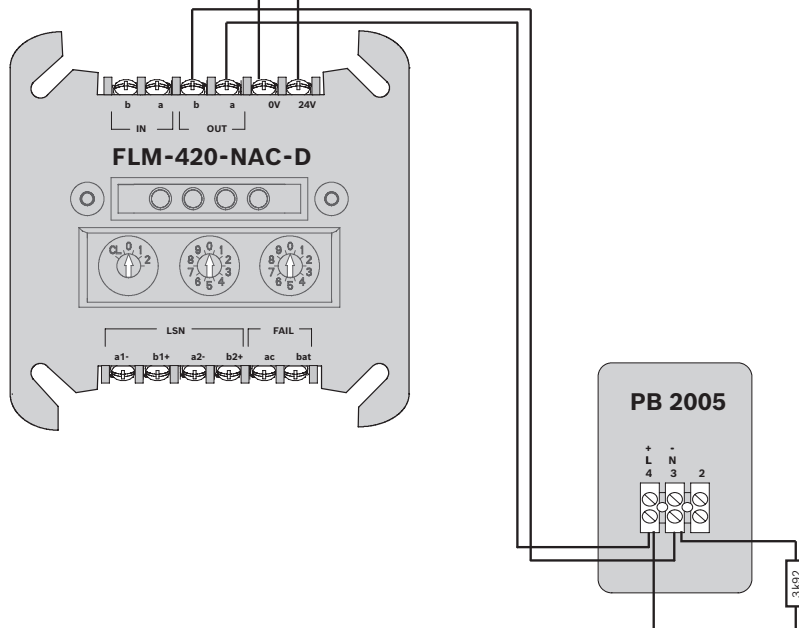


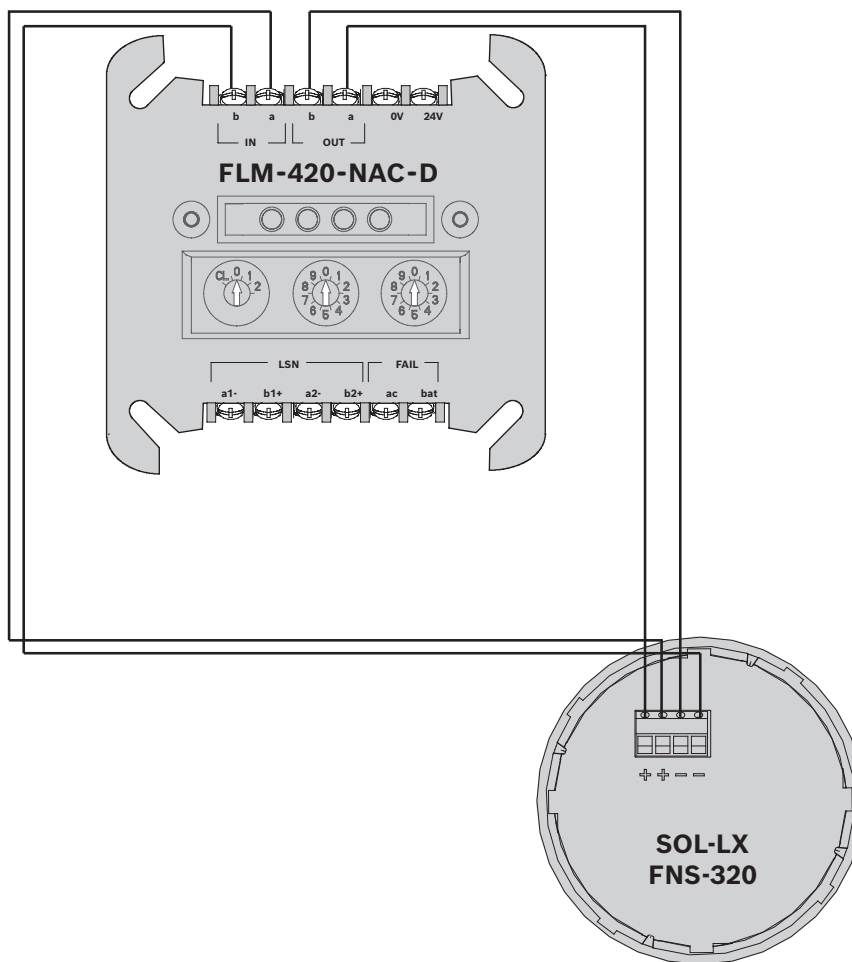
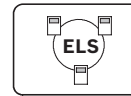


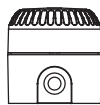
PB 2005



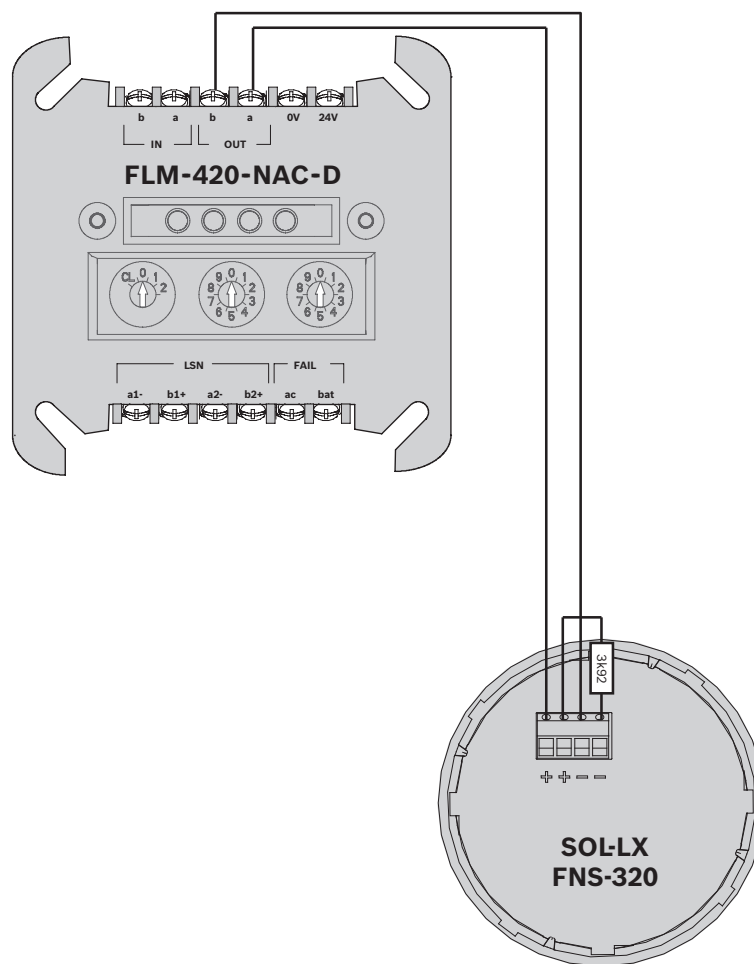
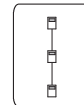
FPP-5000
BCM-0000-B

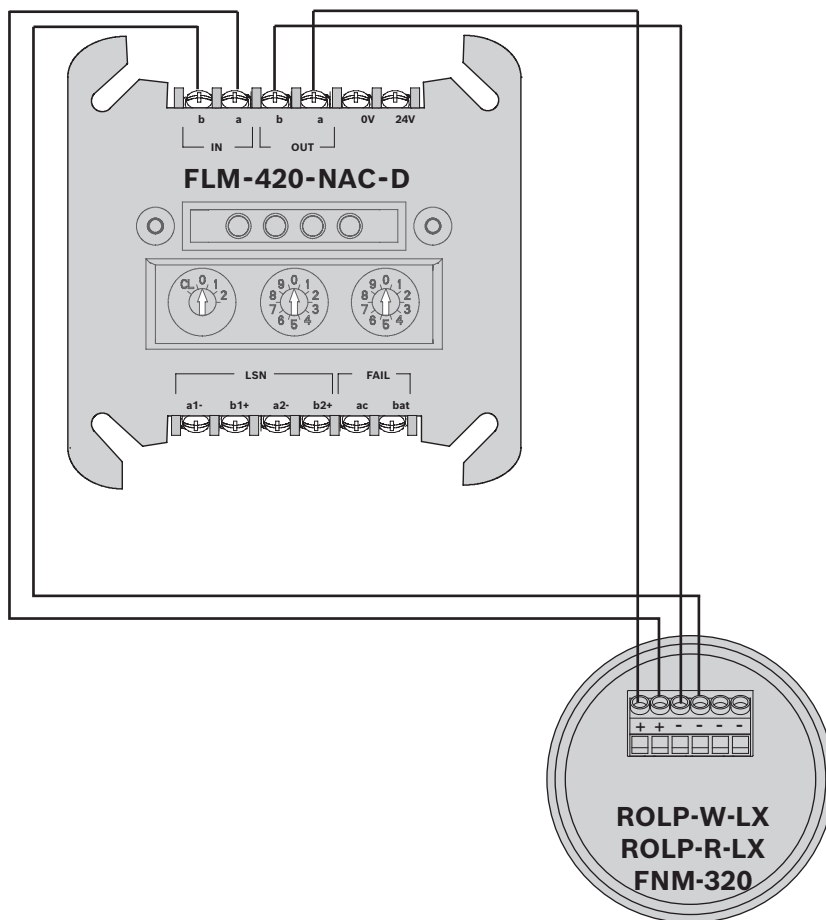
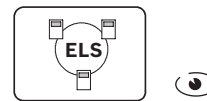


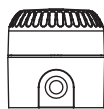




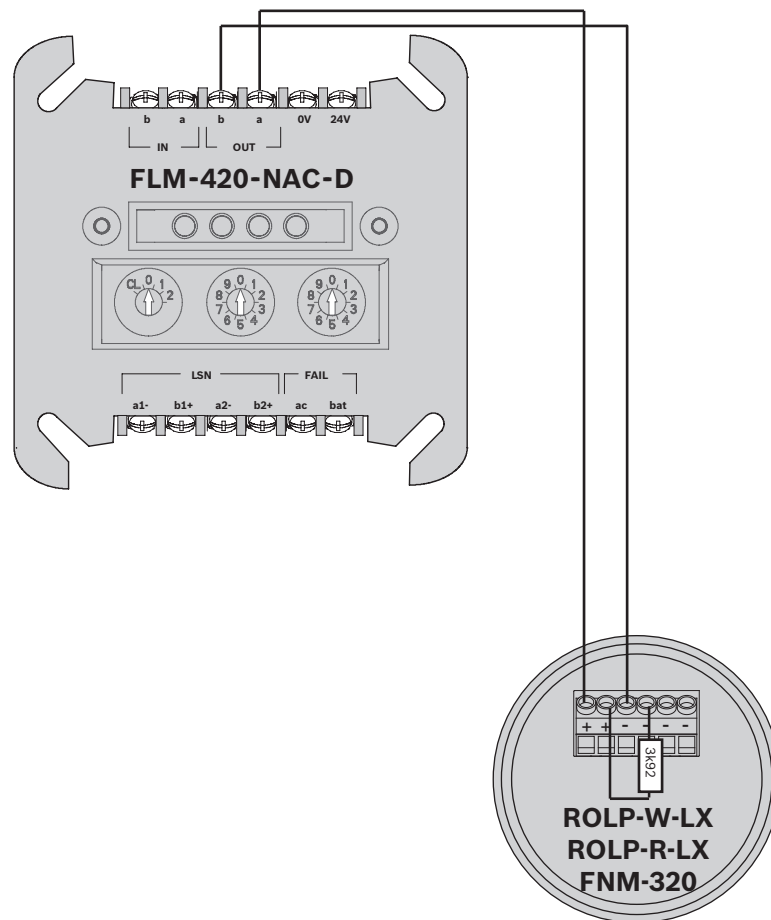
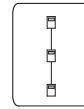
**SOL-LX
FNS-320**



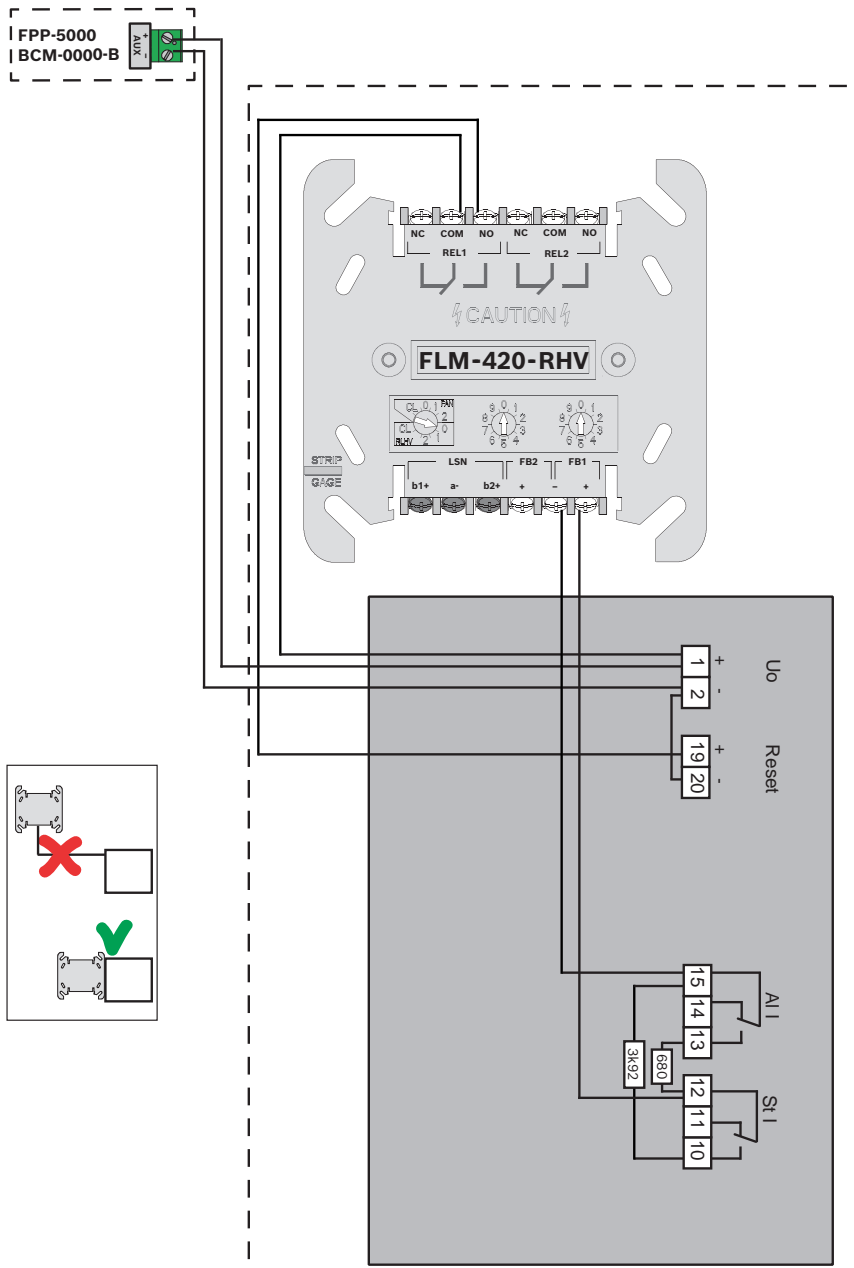




ROLP-W-LX
ROLP-R-LX
FNM-320

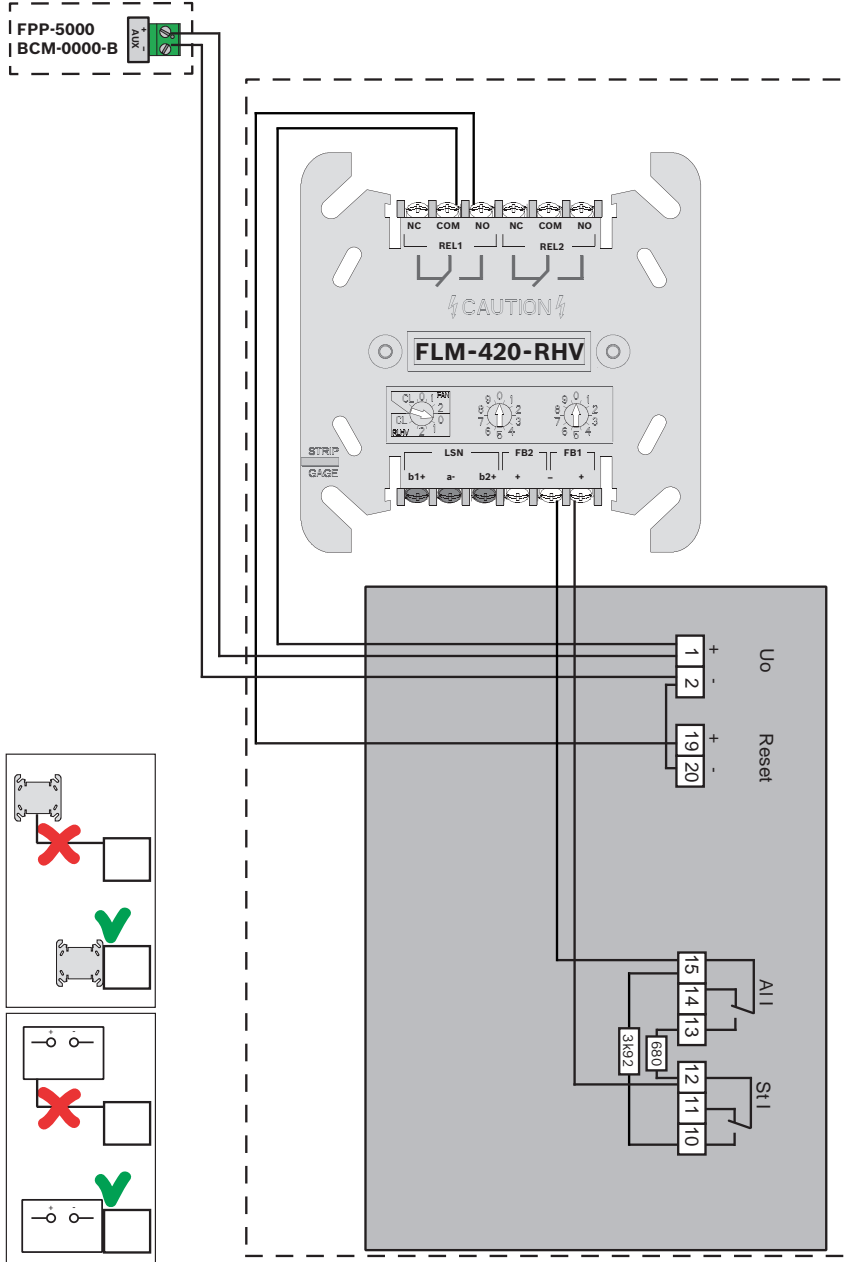


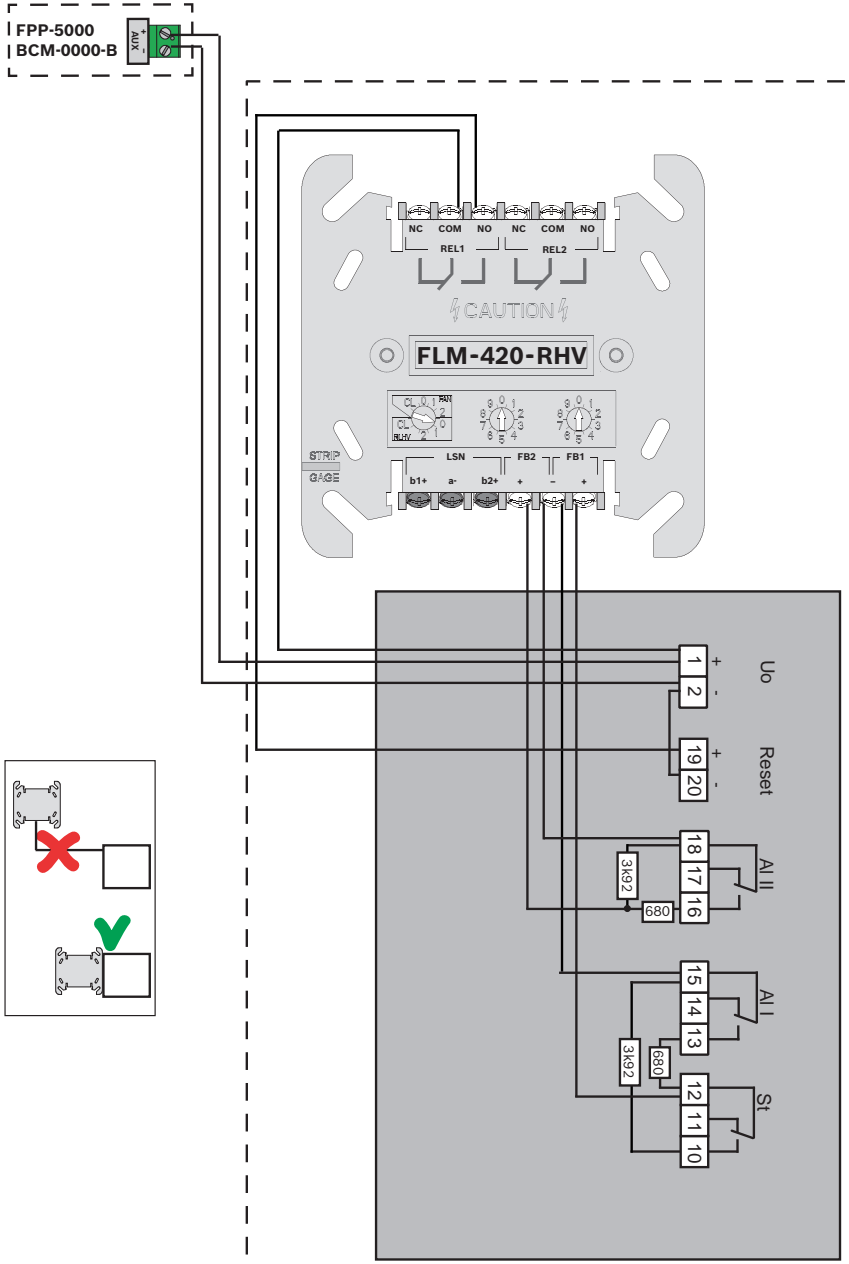
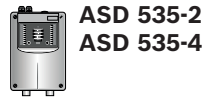
2.5.4 FLM-420-RHV





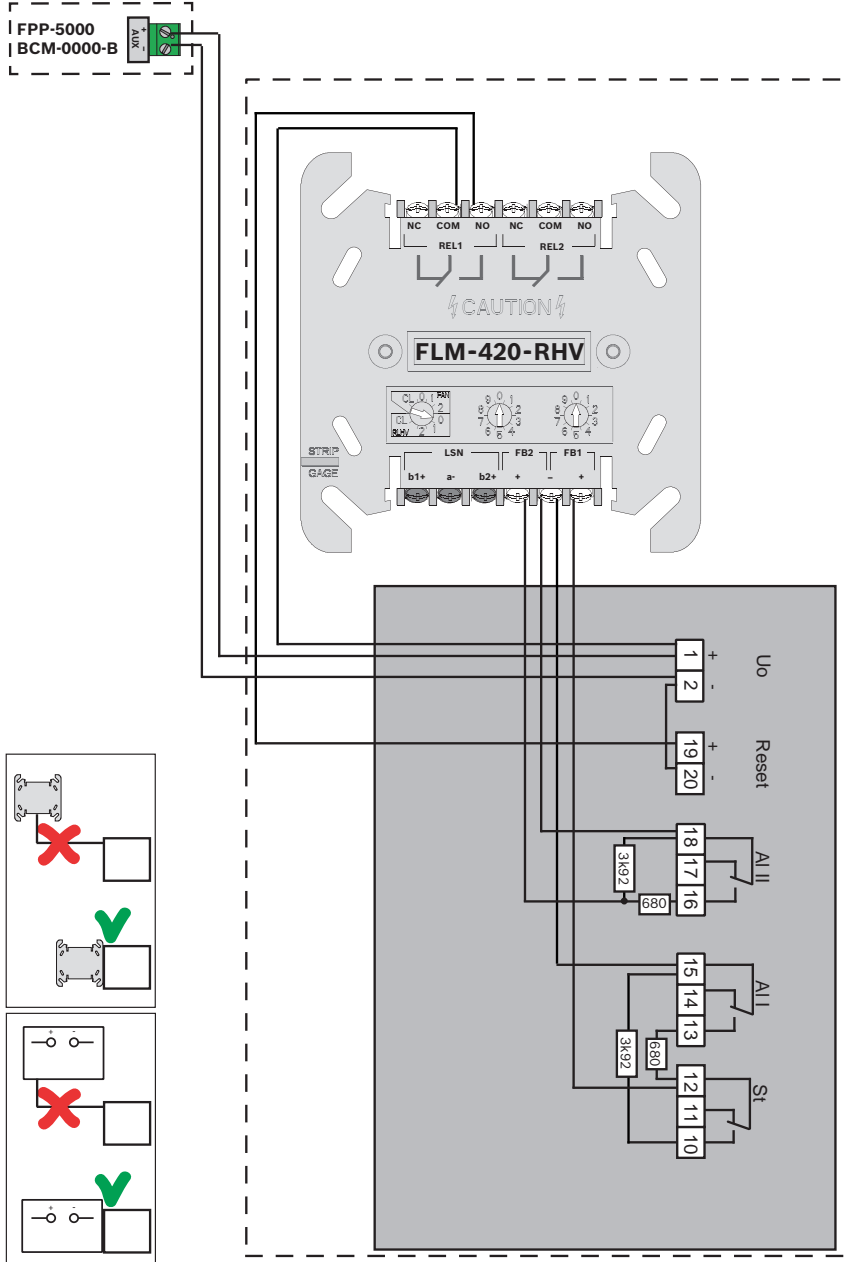
ELS

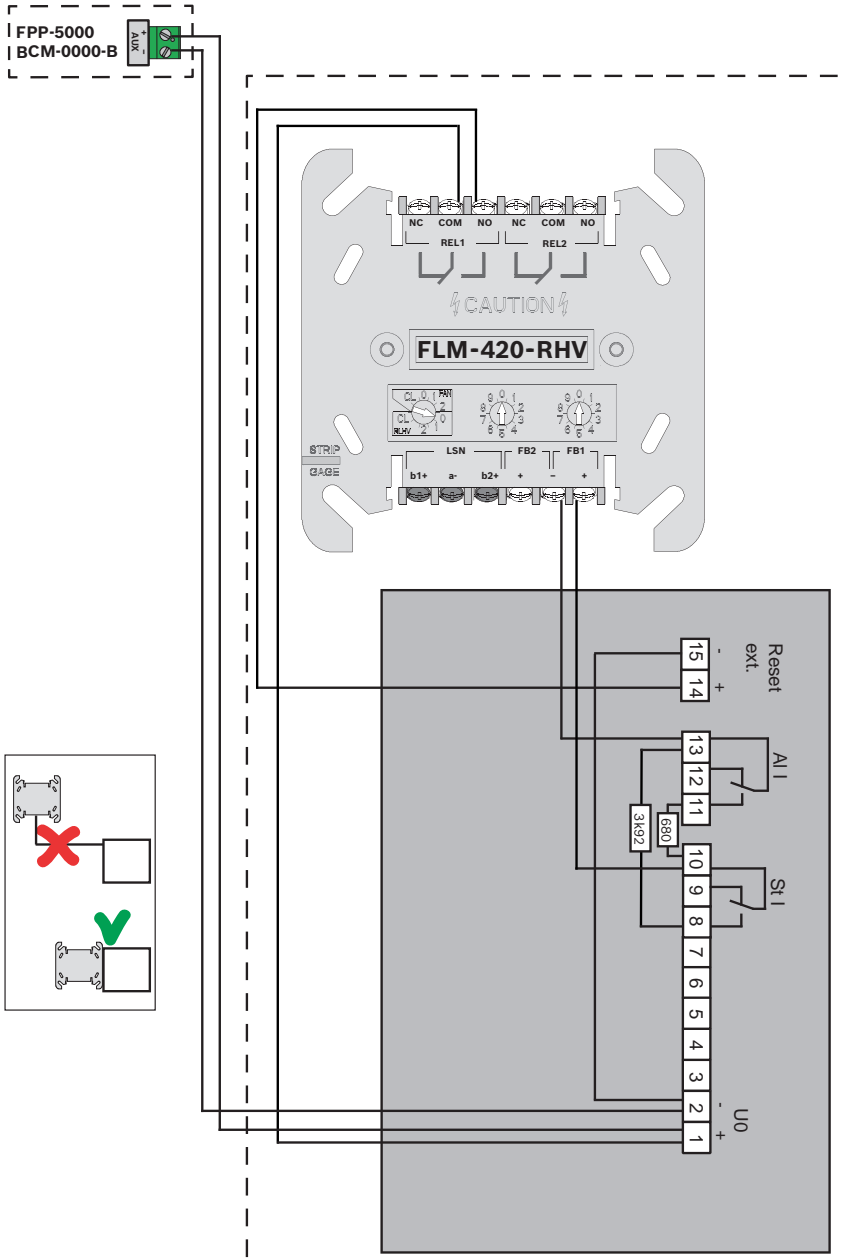


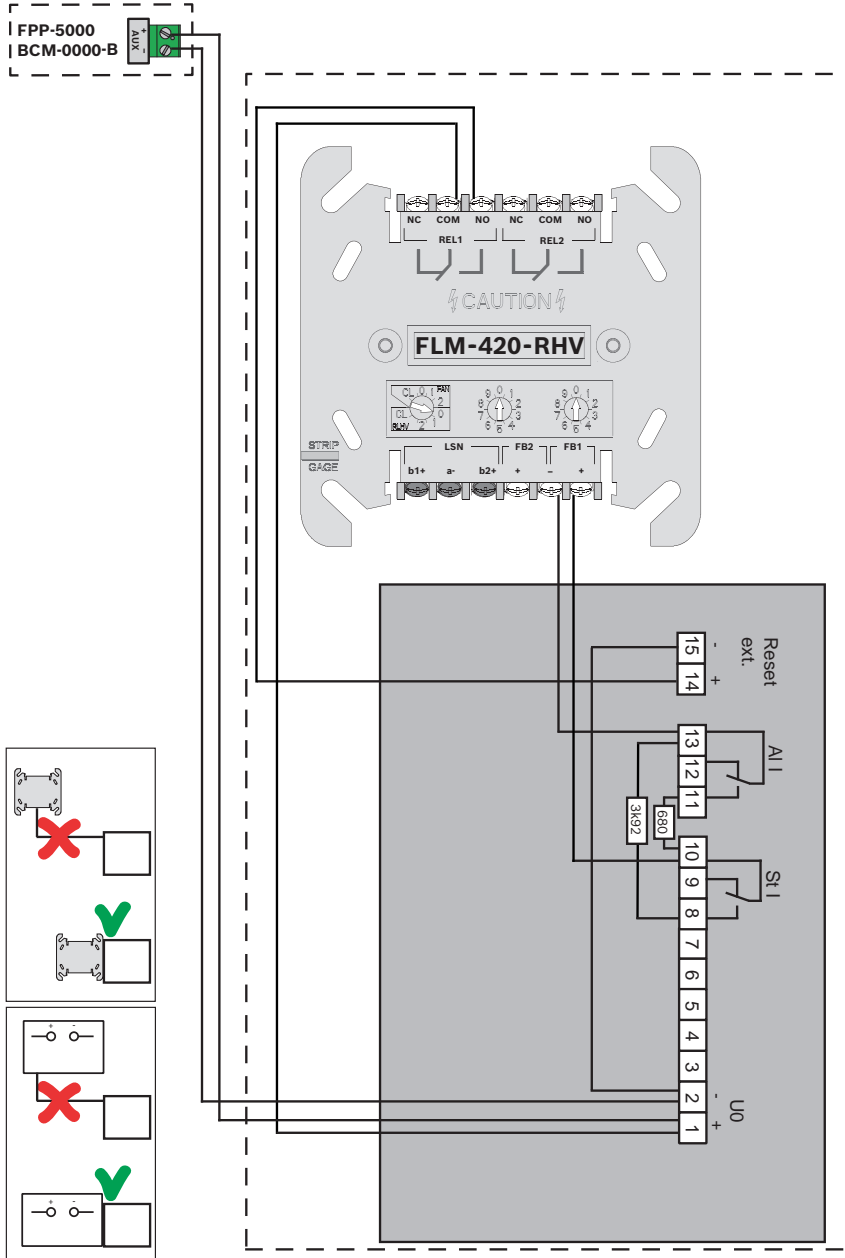




ELS

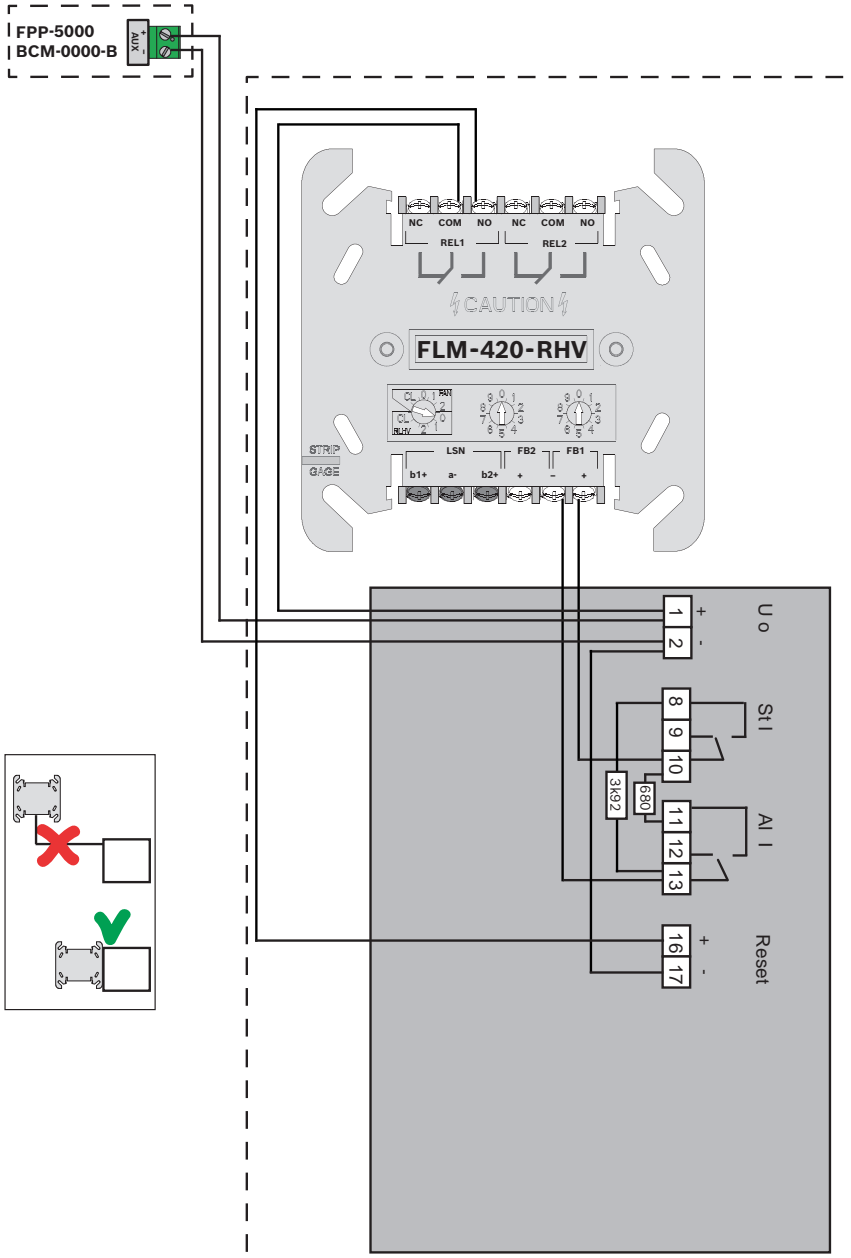








ADW 535-1

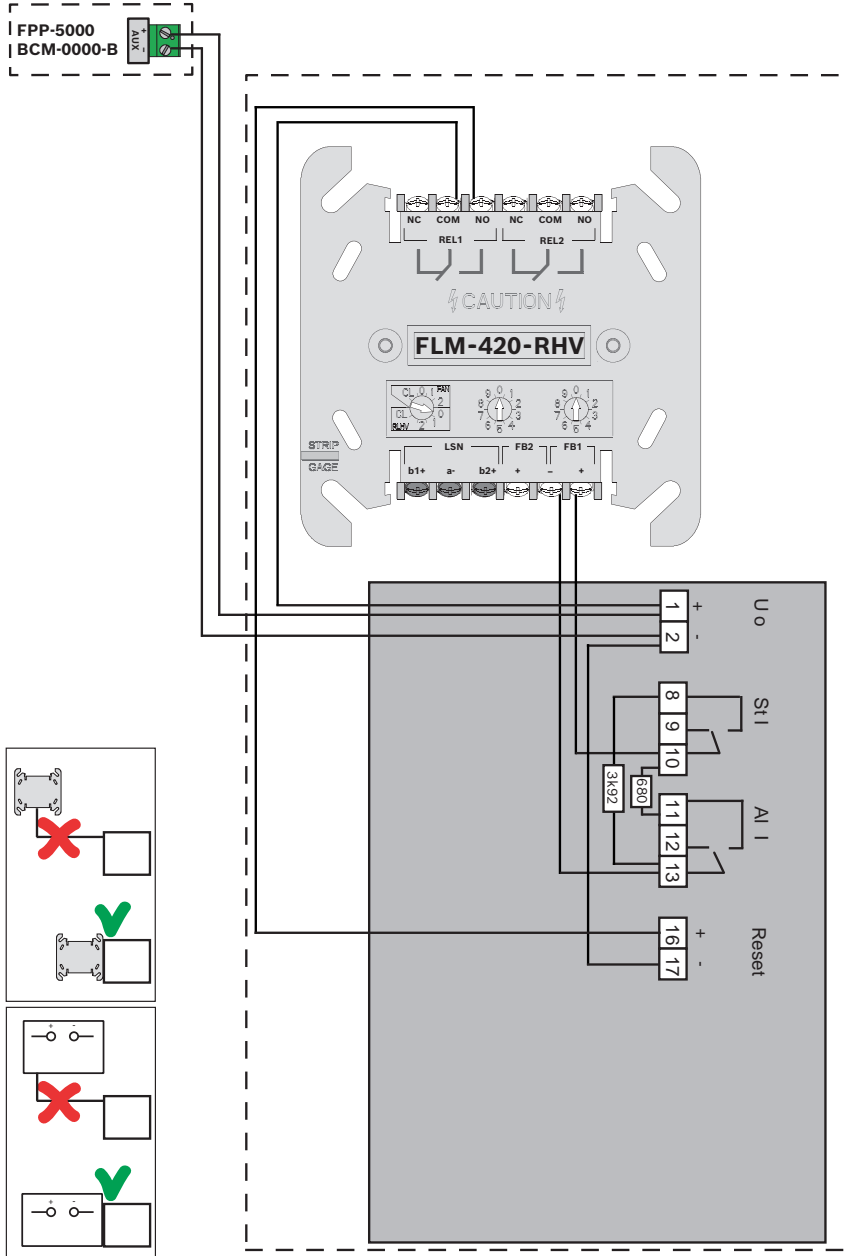




ADW 535-1

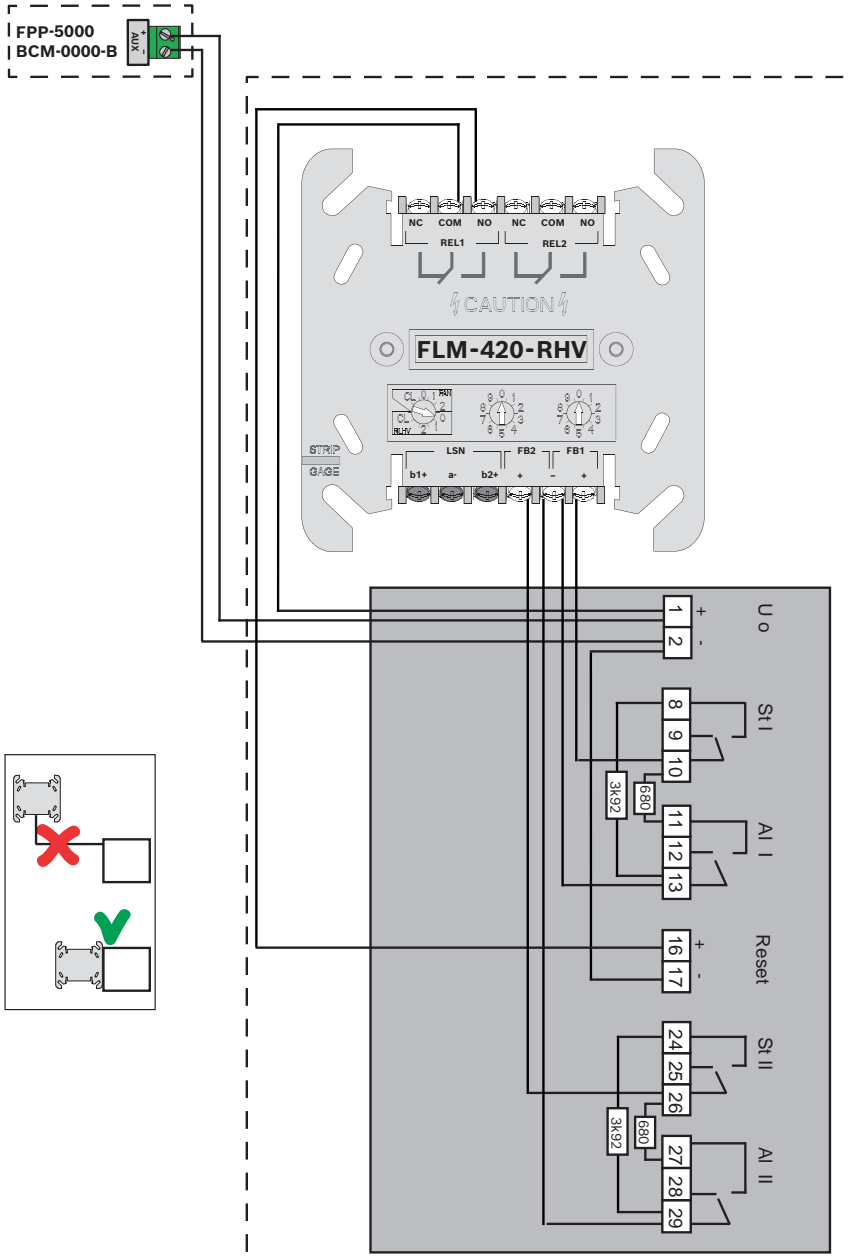


ELS





ADW 535-2

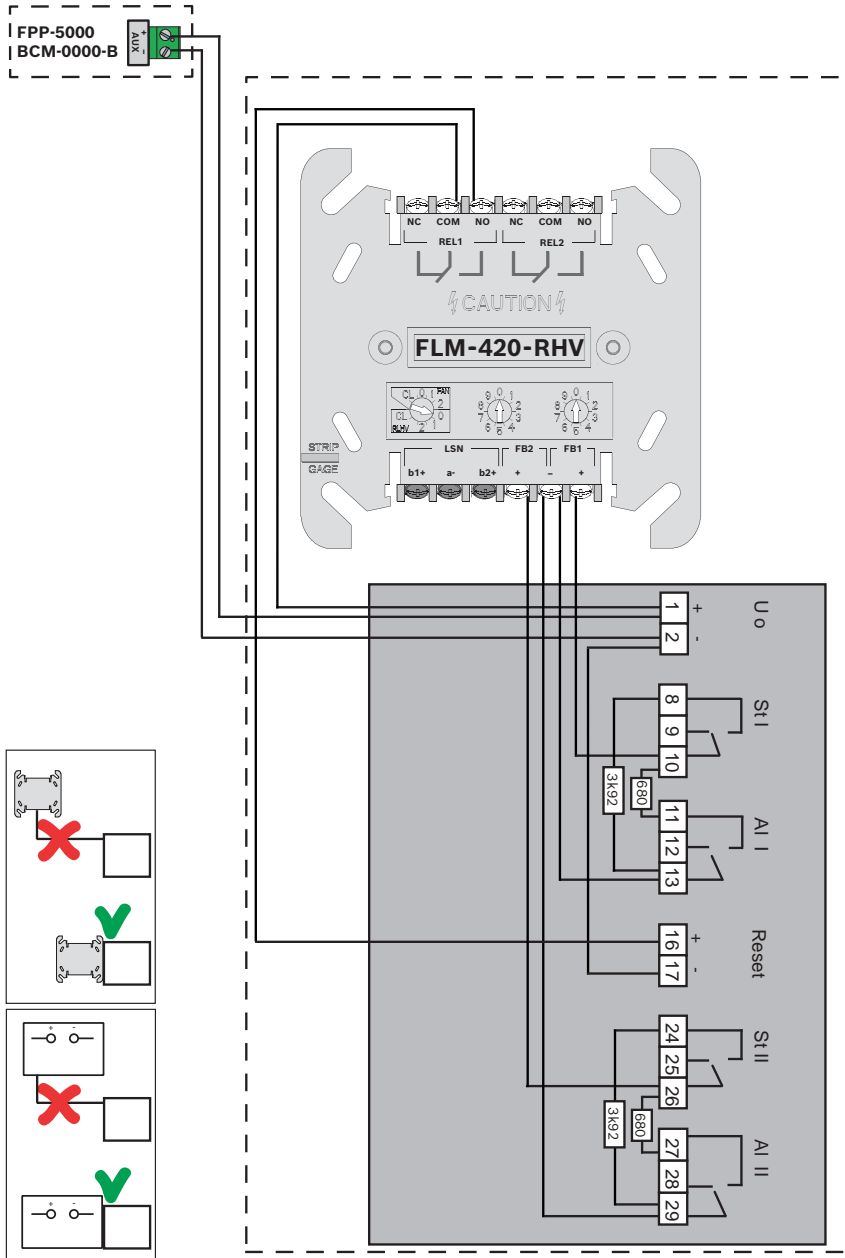




ADW 535-2

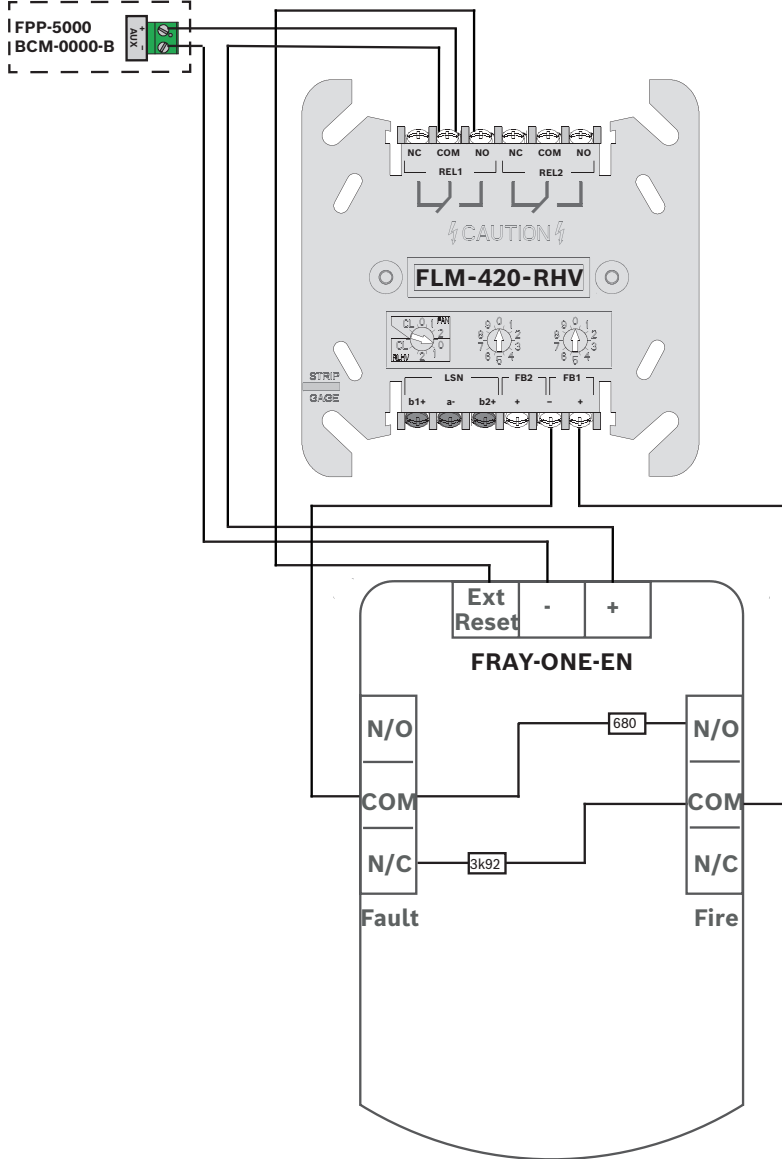


ELS





Fireray One

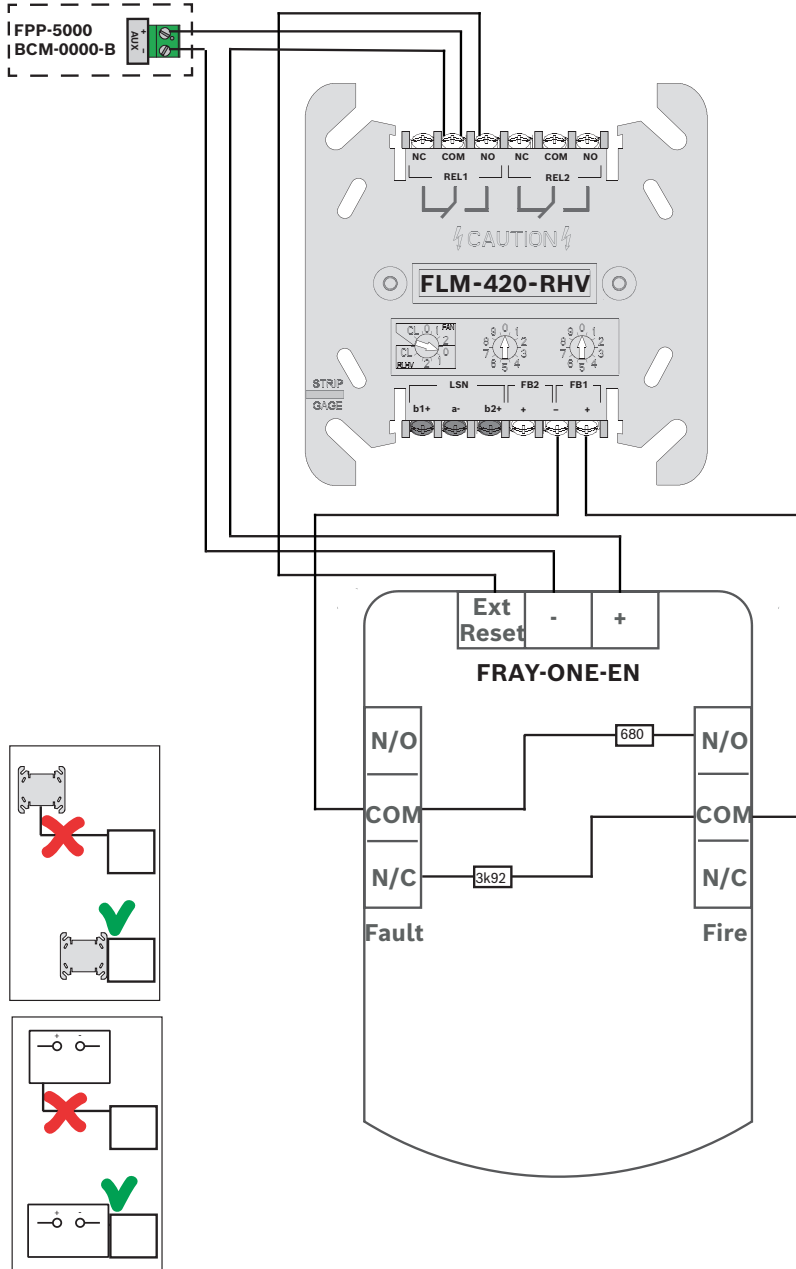




Fireray One



ELS

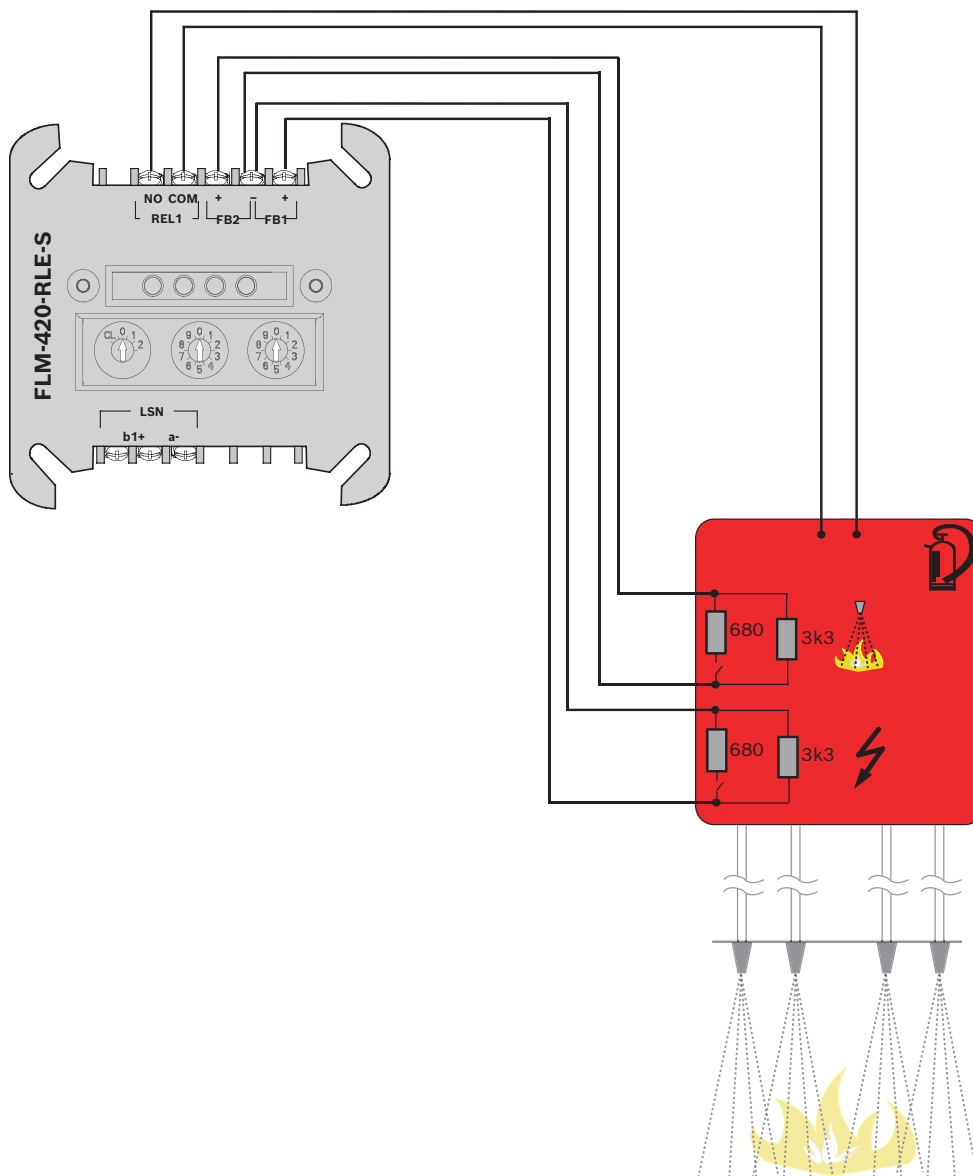


2.5.5

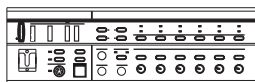
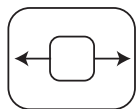
FLM-420-RLE-S



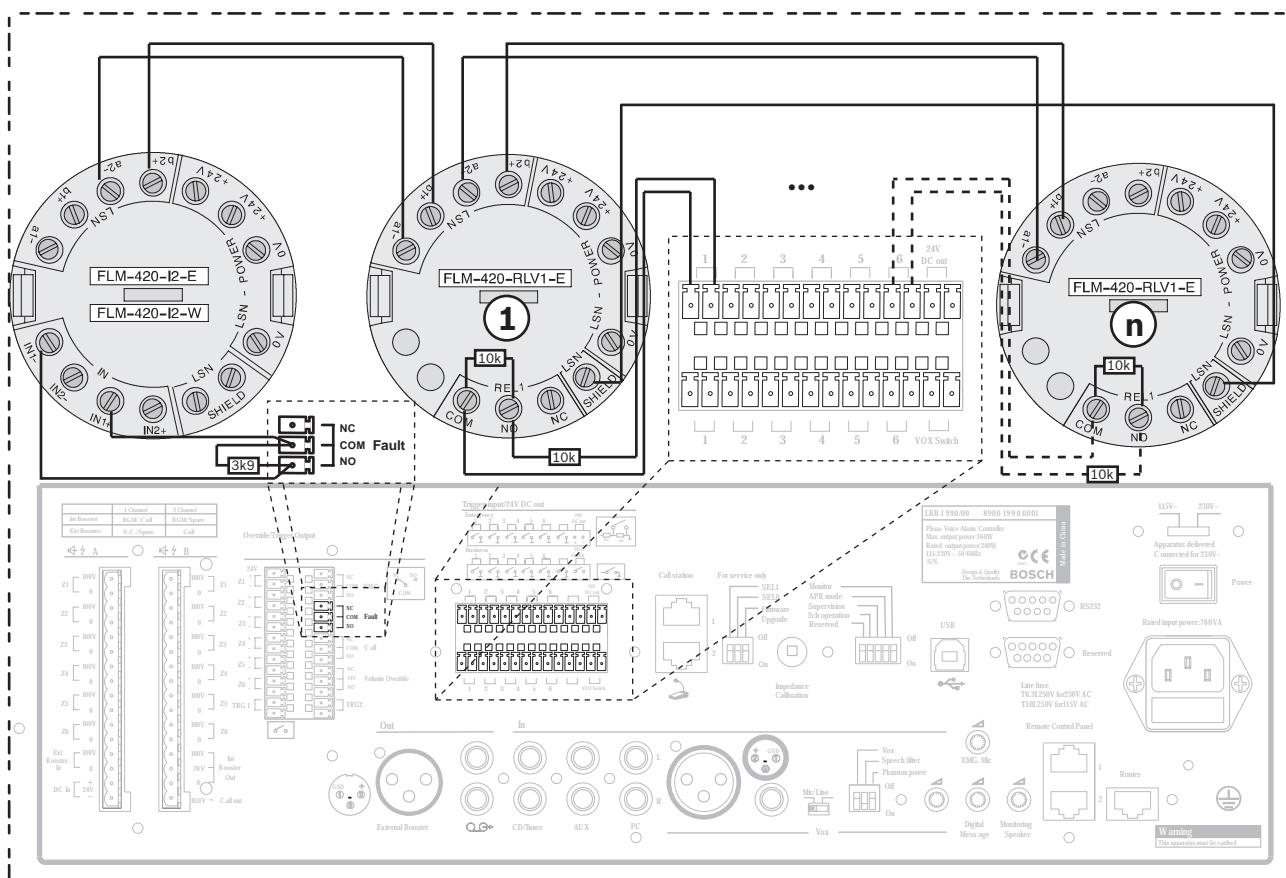
VdS 2496



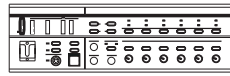
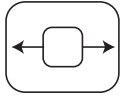
2.5.6 FLM-420-RLV1-E



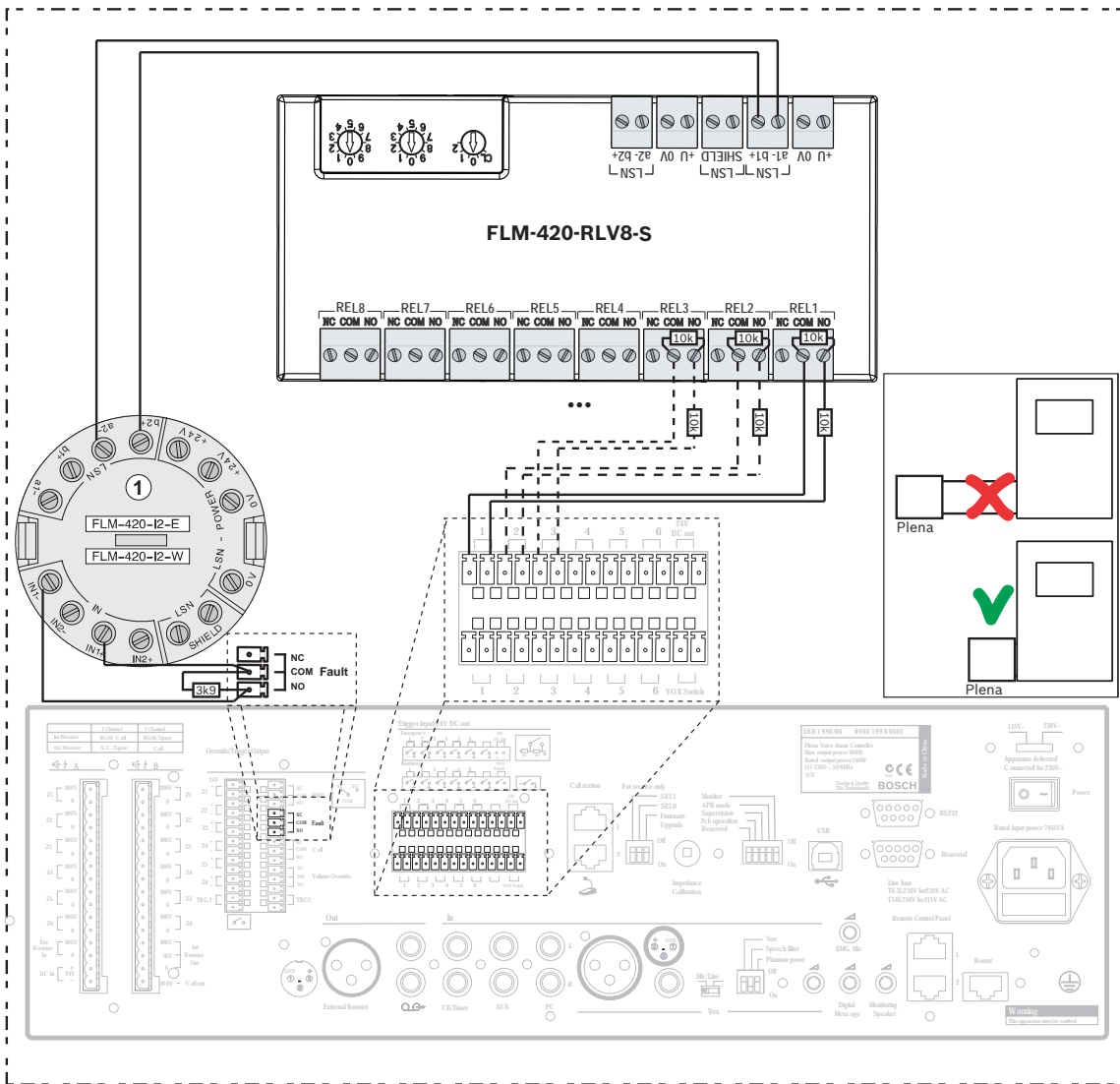
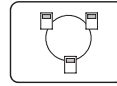
Plena



2.5.7 FLM-420-RLV8-S



Plena



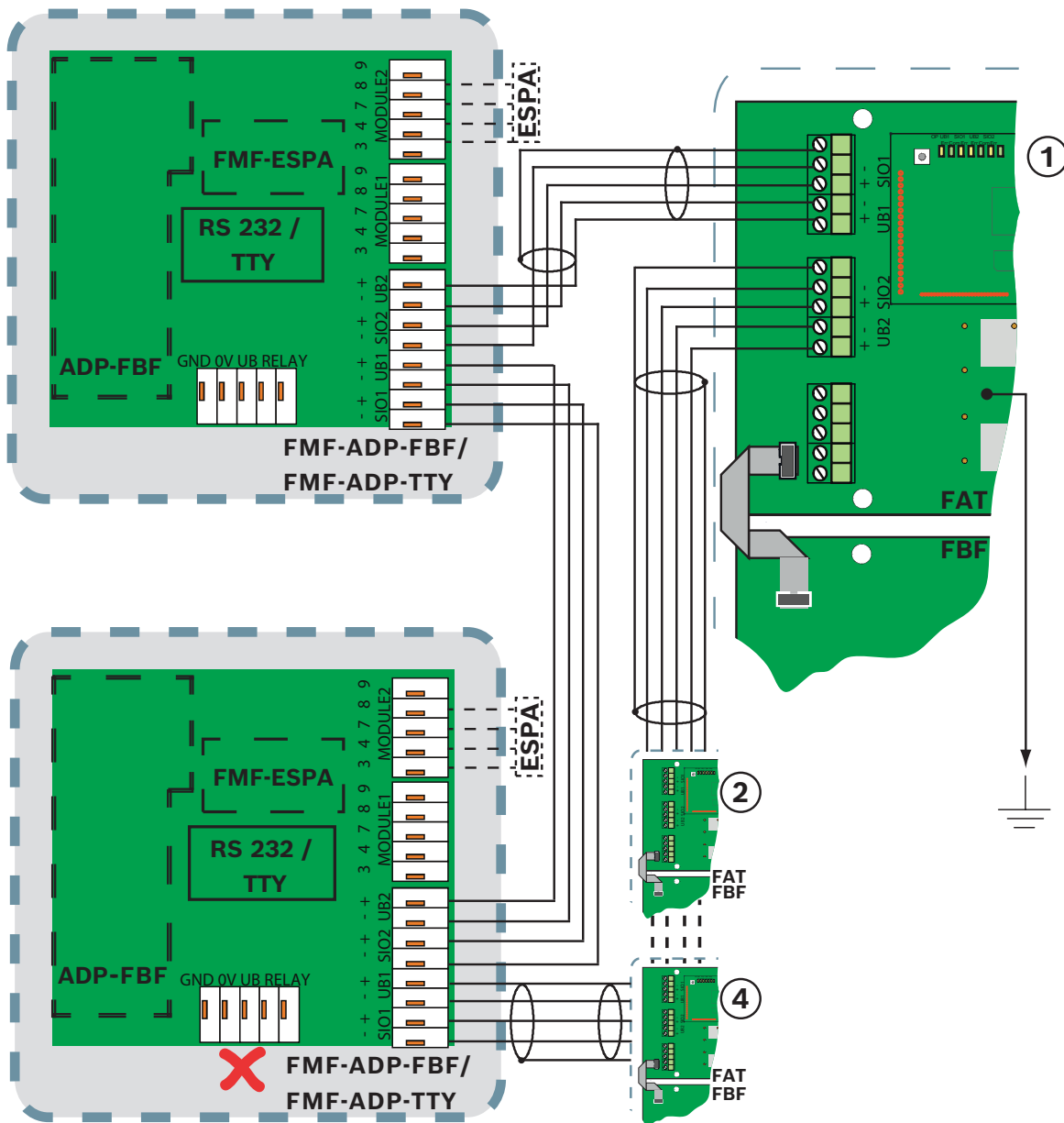
2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS



2.6

EOL



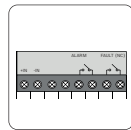
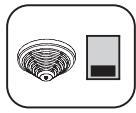
CZM 0004 A, stránka 189

LSN 0300 A, stránka 201

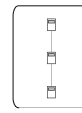
FLM-420/4-CON-S/D, stránka 246

2.6.1

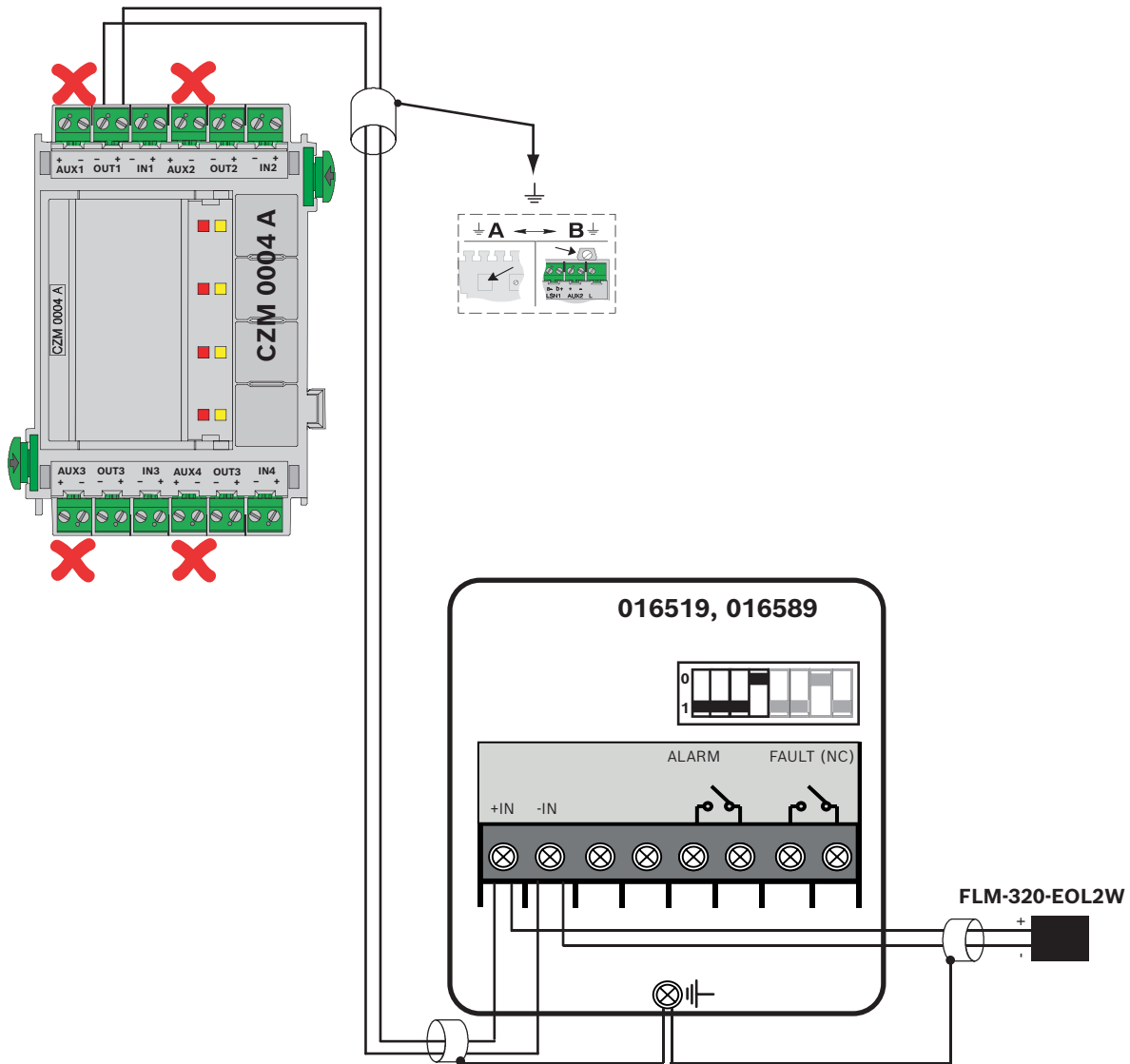
CZM 0004 A

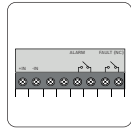


016519, 016589
IR3 Flame Detector

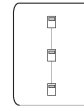


ELS

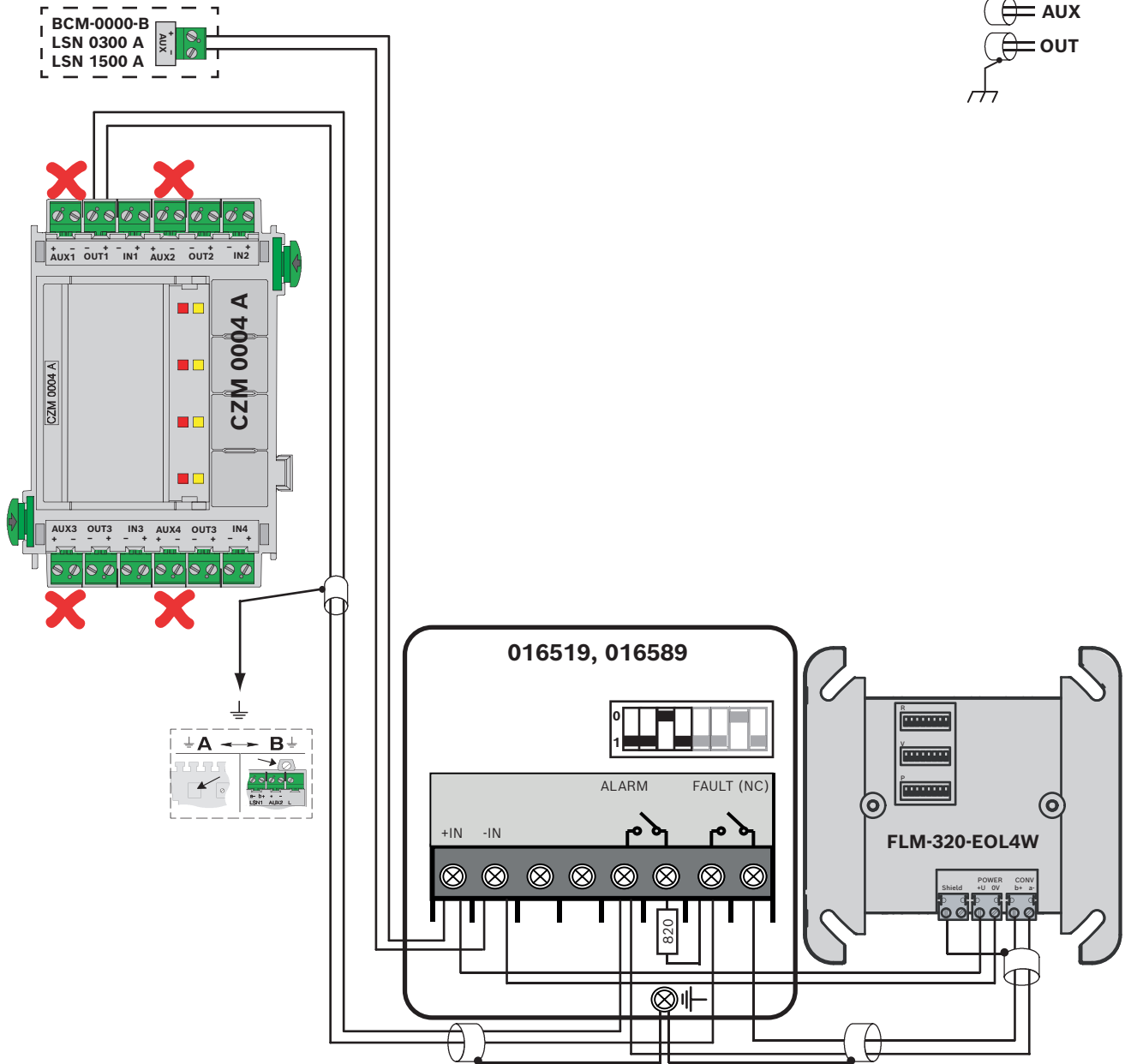




016519, 016589
IR3 Flame Detector



ELS

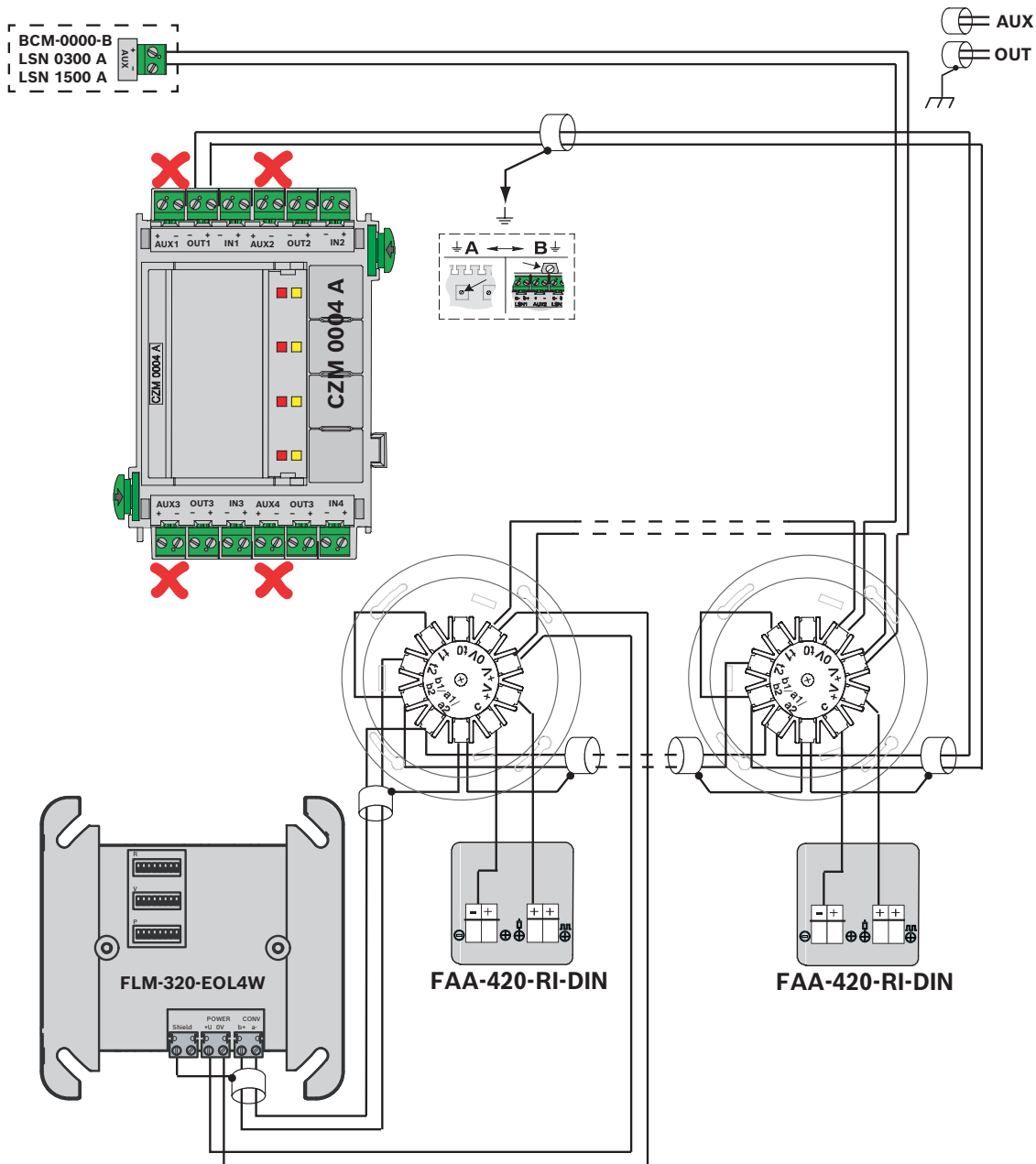


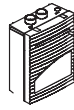


FCA-500-EU
FCP-O 500
FCP-O 500-P
FCP-OC 500
FCP-OC 500-P

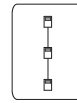


ELS



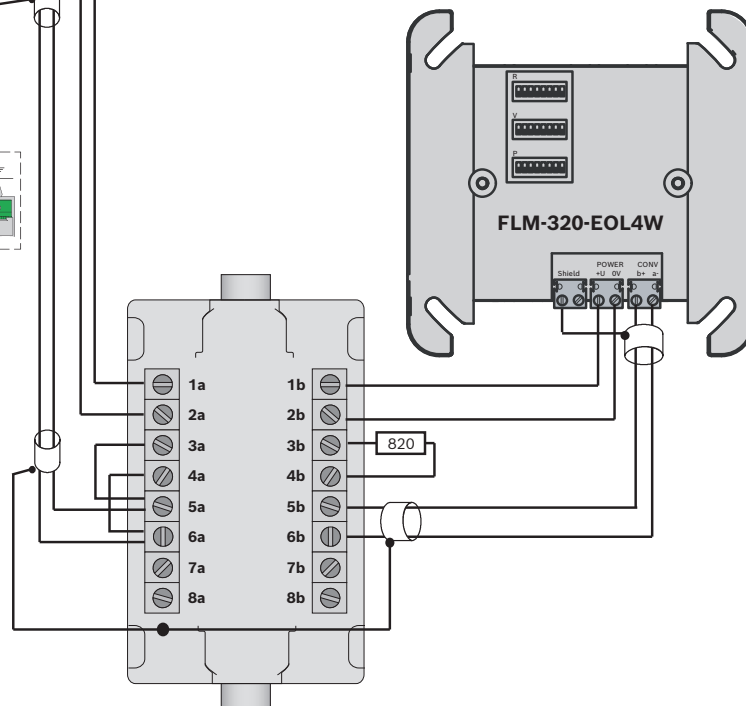
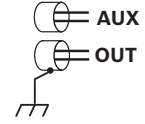
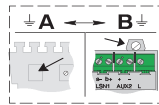
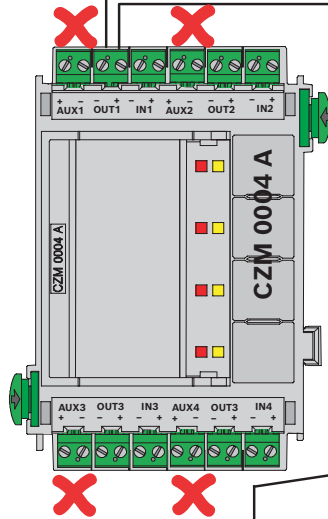


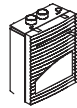
FCS-320-TM Series



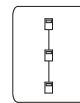
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

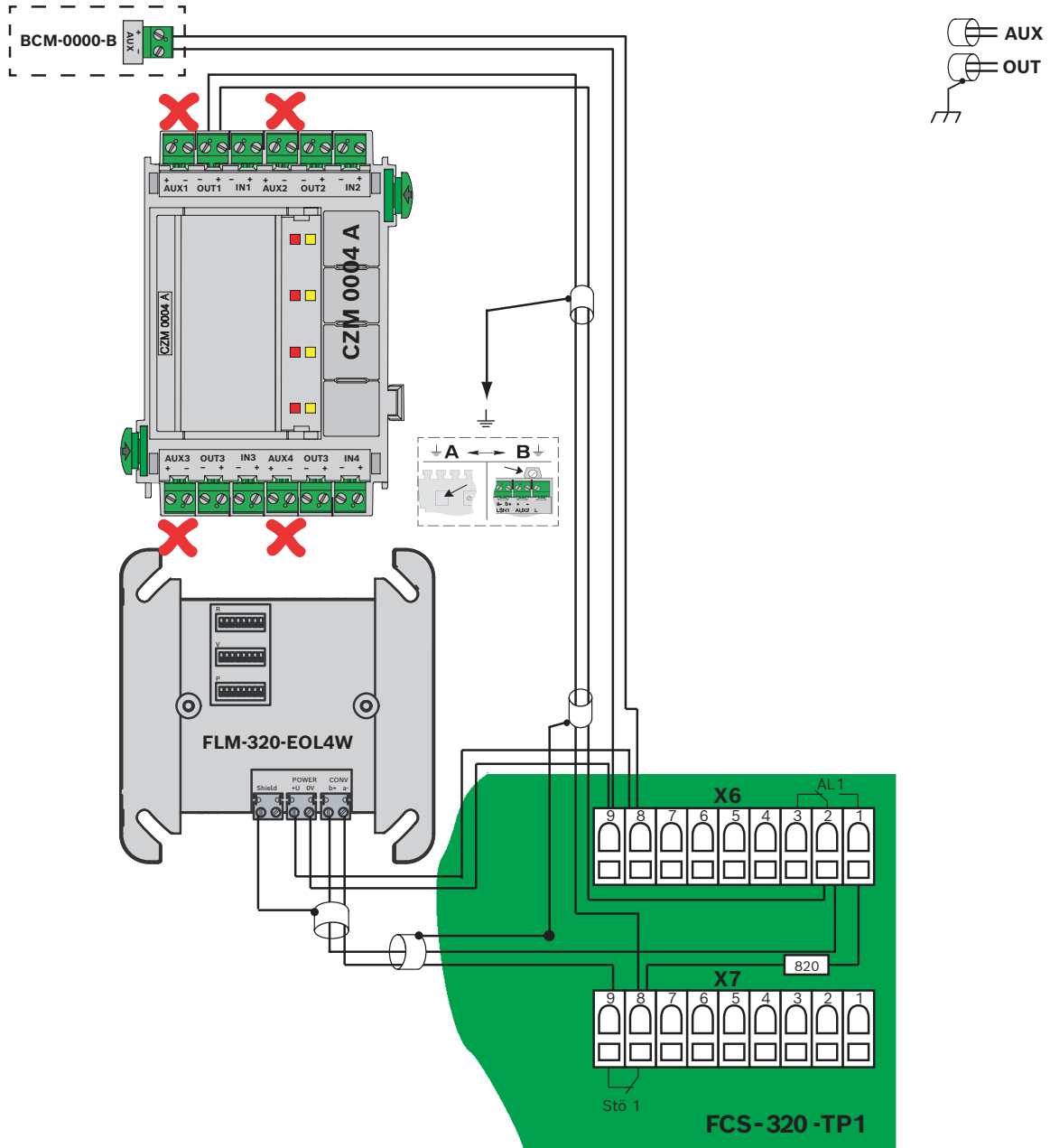


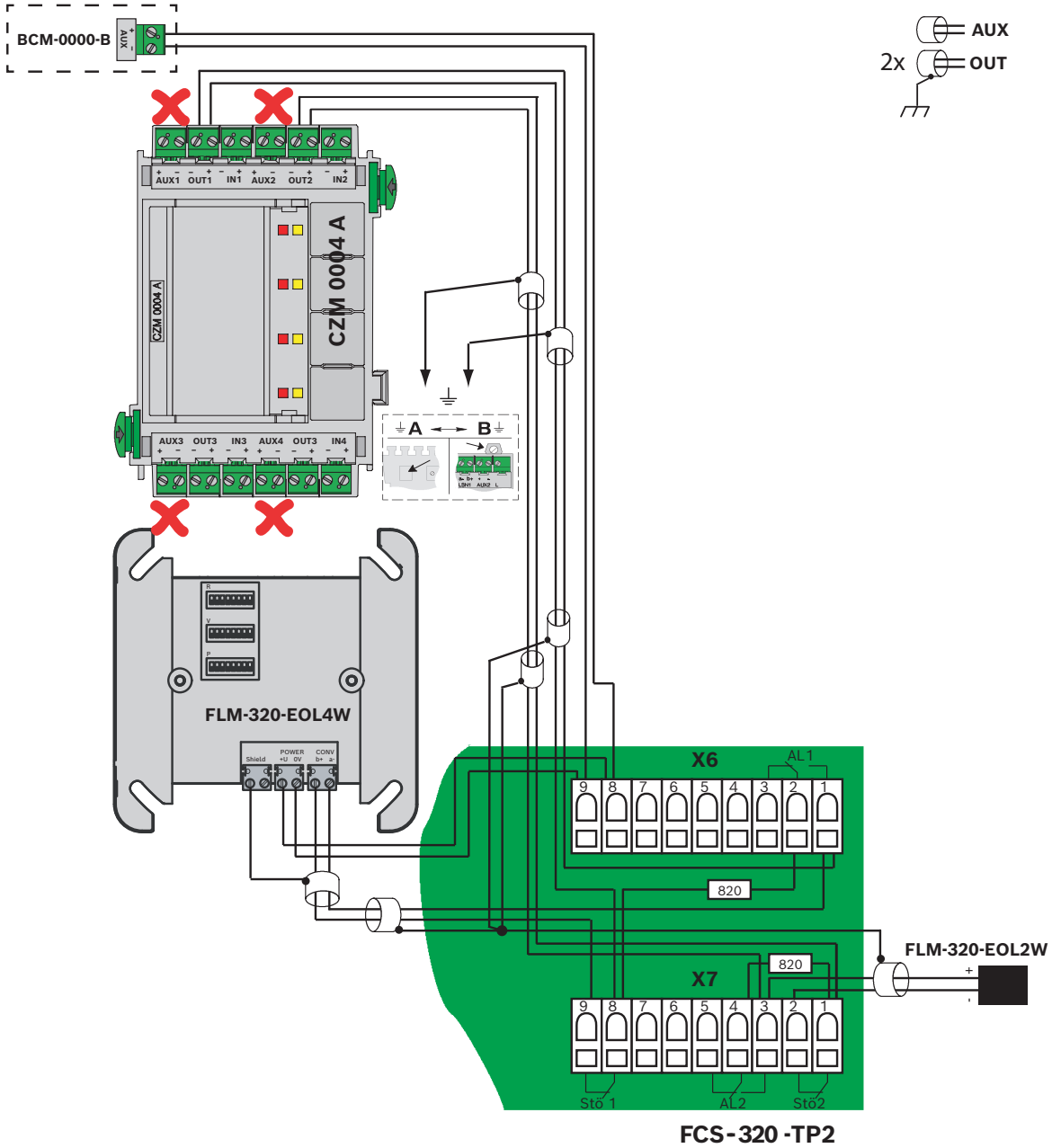
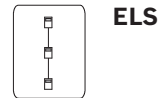
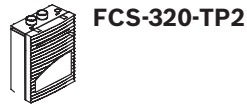


FCS-320-TP1



ELS





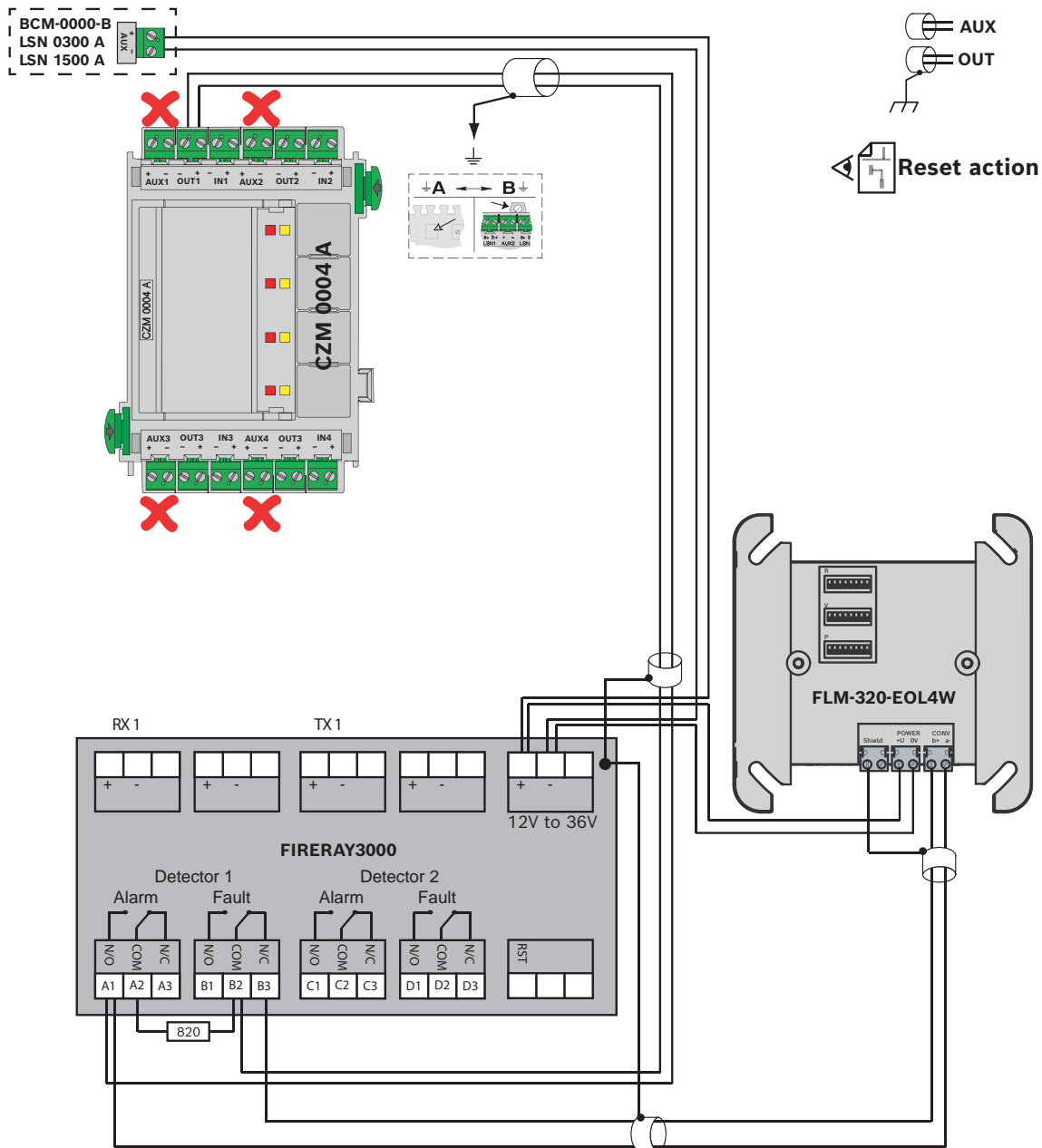


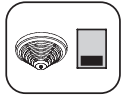
FIRERAY3000

1 x



ELS

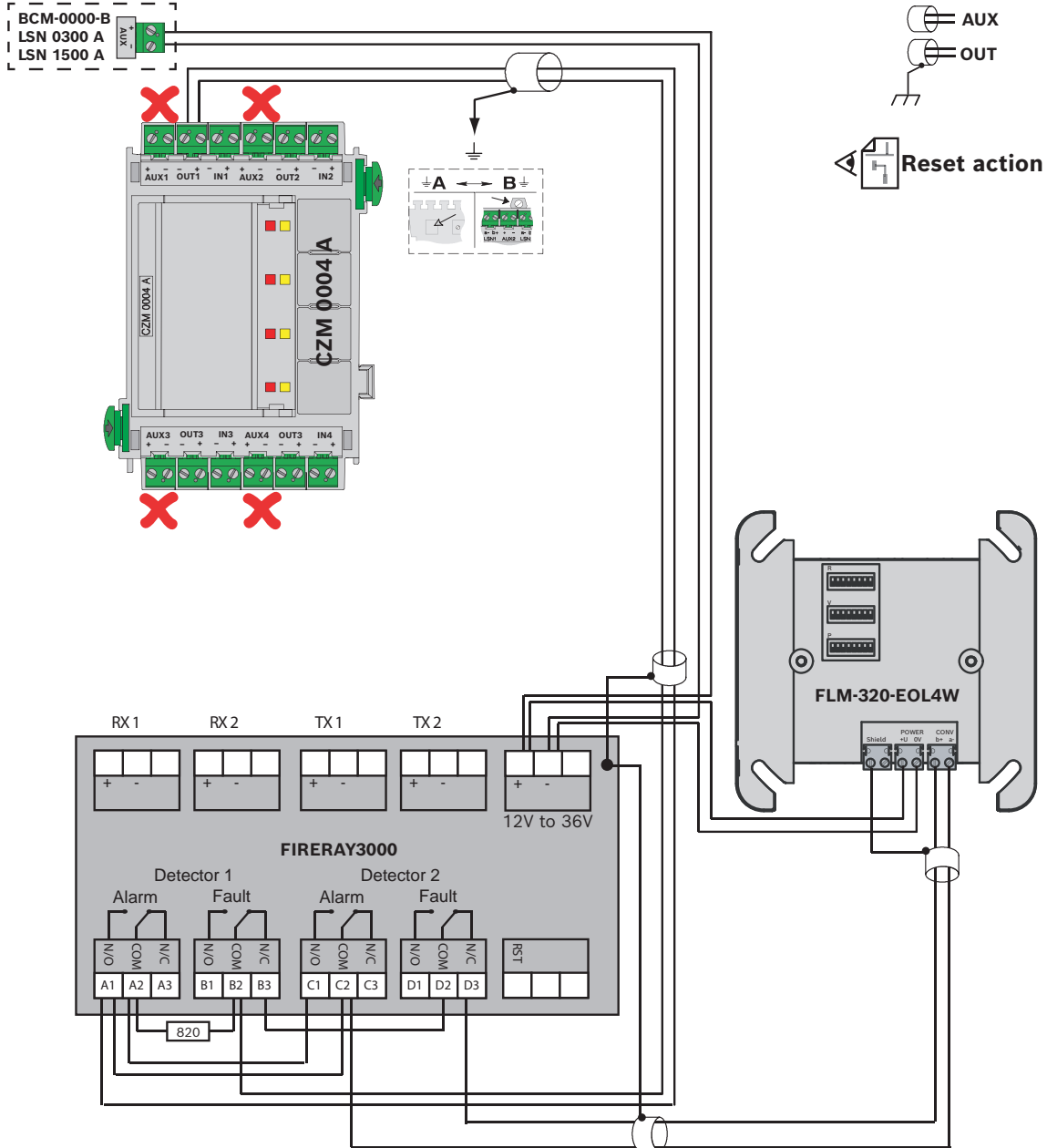




FIRERAY3000
2 x **OUT1**



ELS



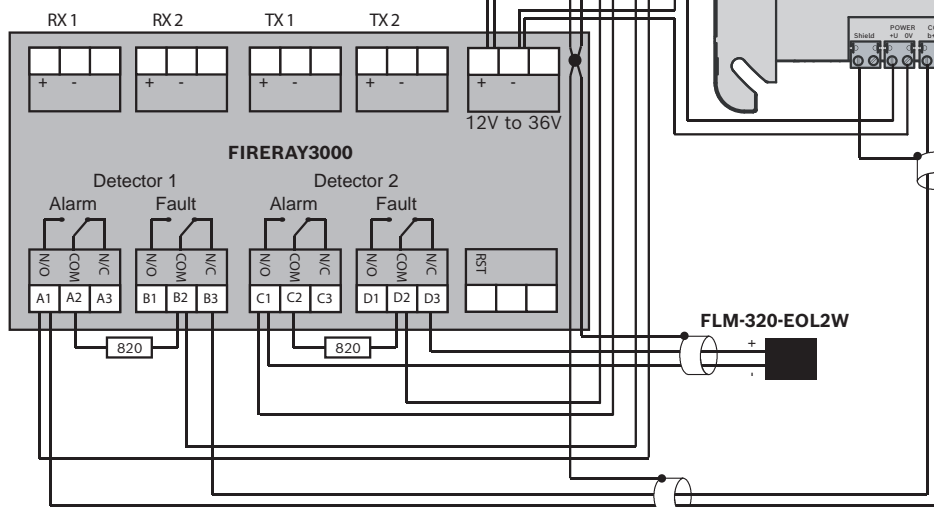
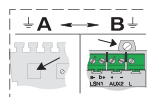
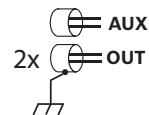
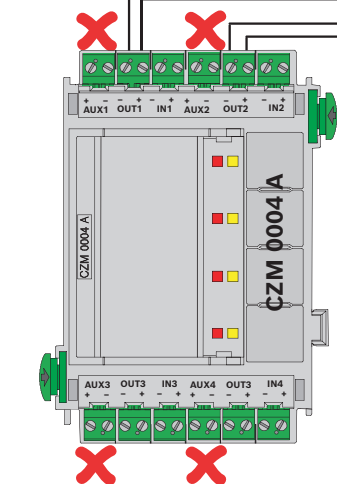


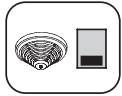
FIRERAY3000
2 x **OUT1+2**



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



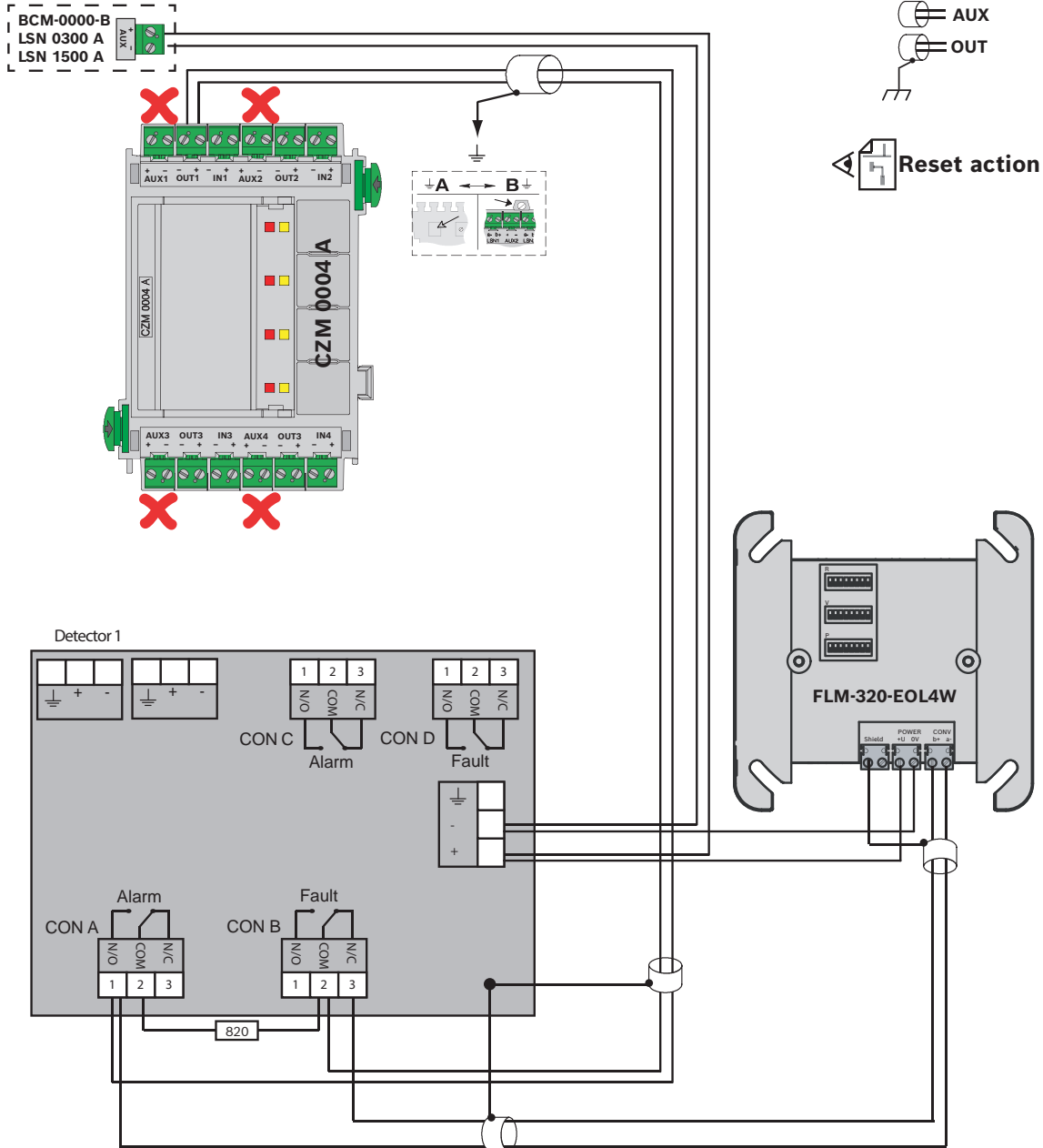


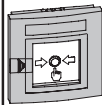
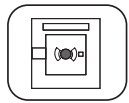
FIRERAY5000

1 x

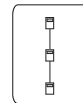


ELS

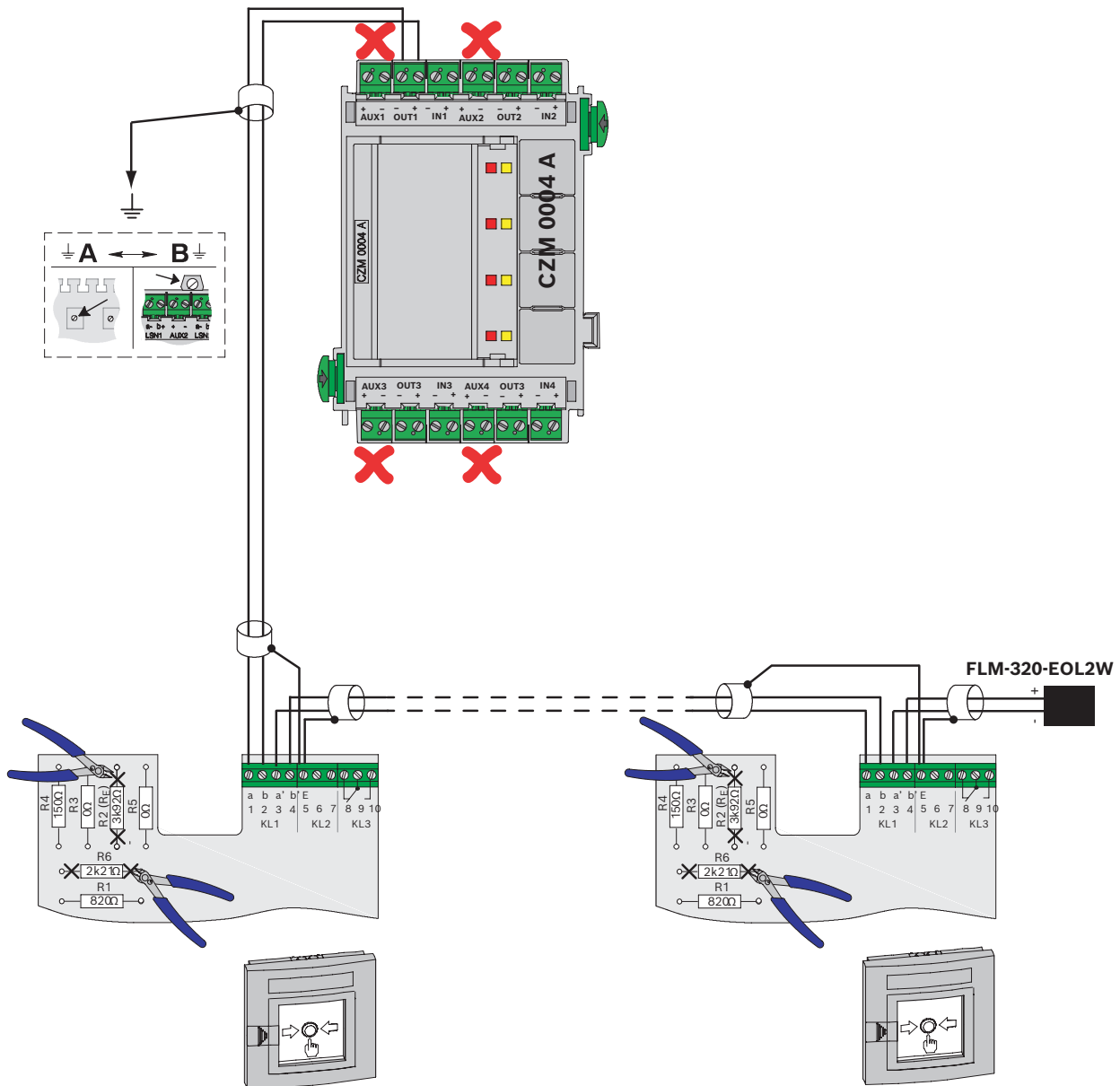


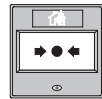
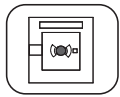


FMC-120-DKM-G-R
 FMC-120-DKM-H-R
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B
 FMC-120-DKM-G-Y



ELS

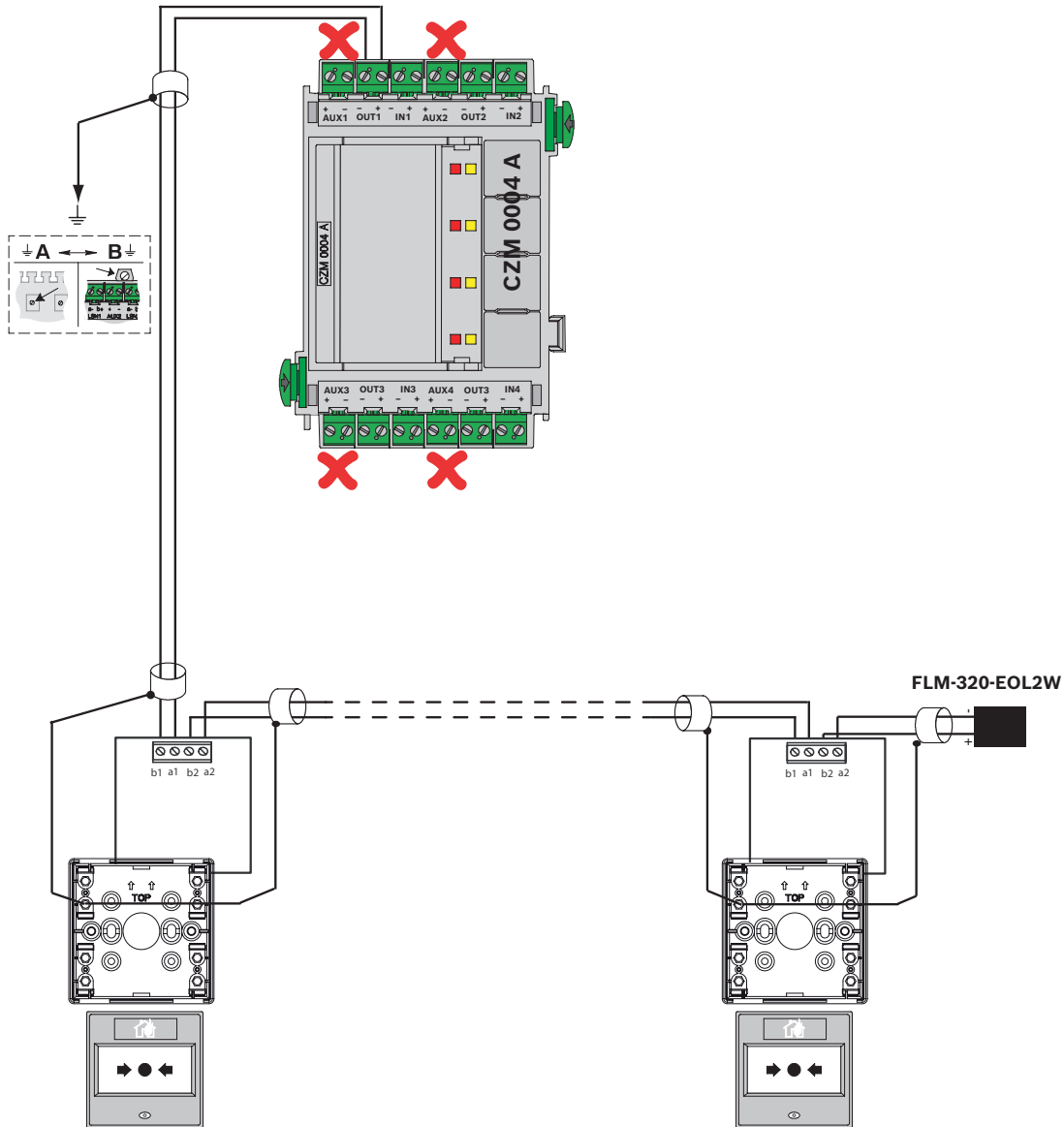




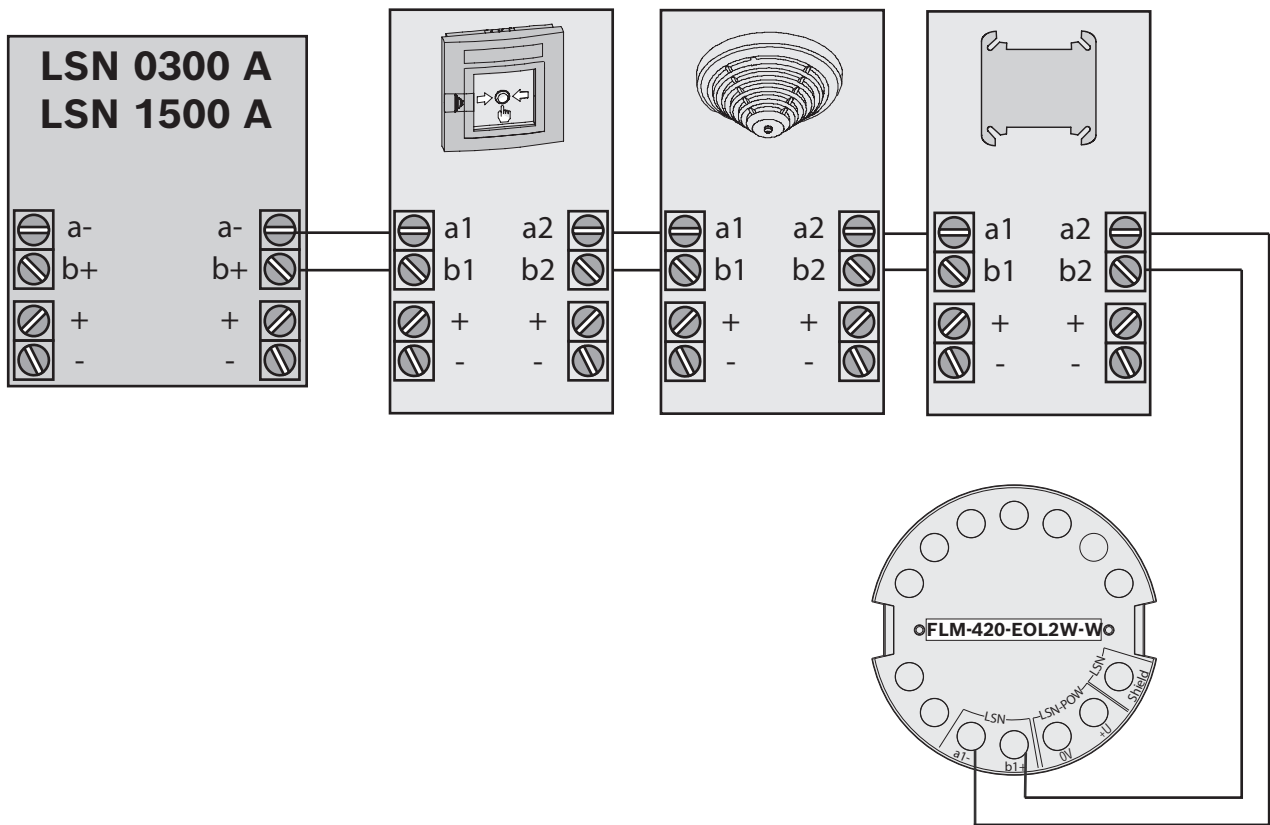
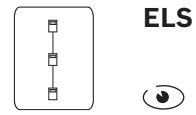
FMC-300RW-GSGBU
 FMC-300RW-GSRBU
 FMC-300RW-GSGRD
 FMC-300RW-GSRRD
 FMC-300RW-GSGYE
 FMC-300RW-GSRYE

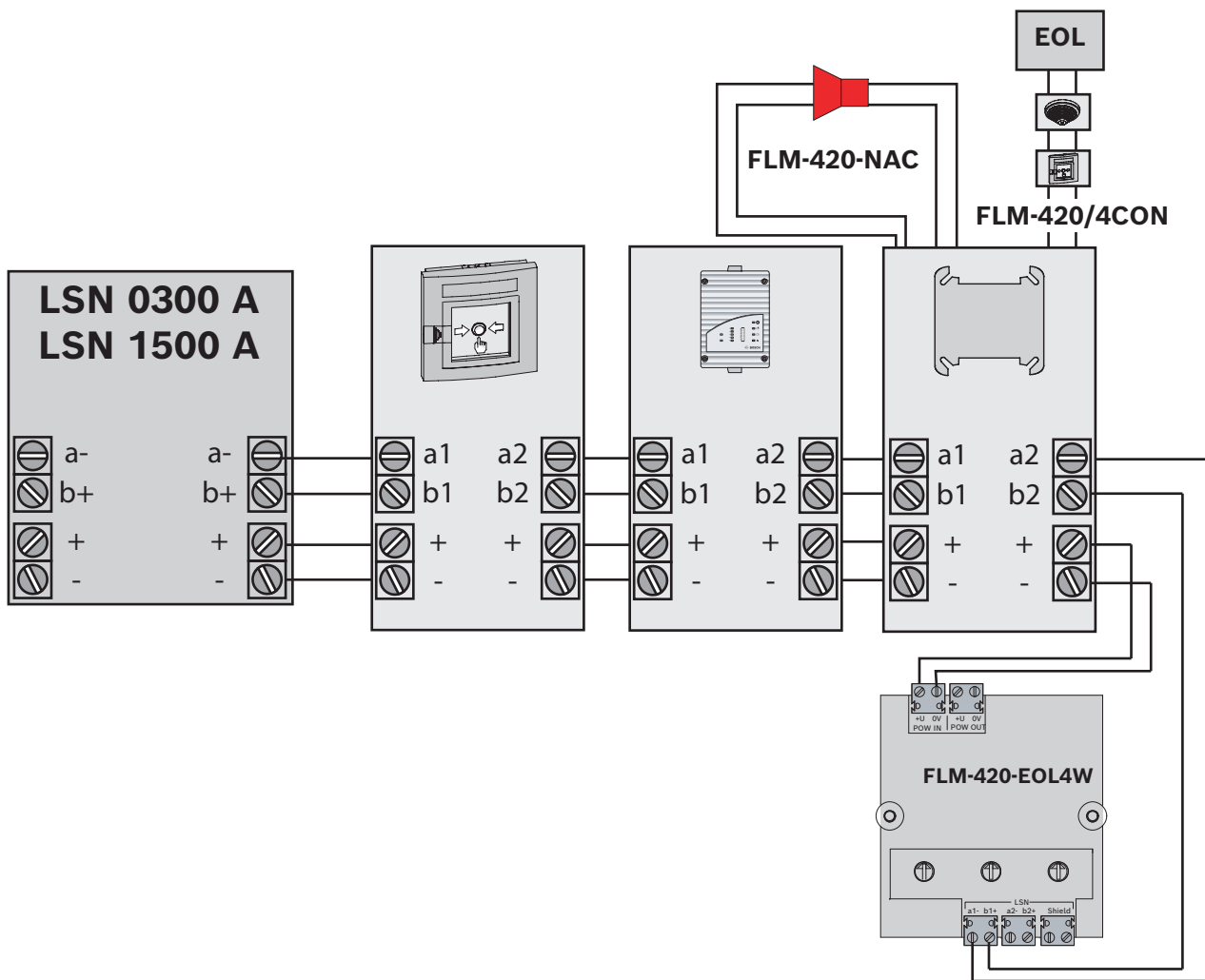
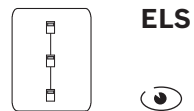


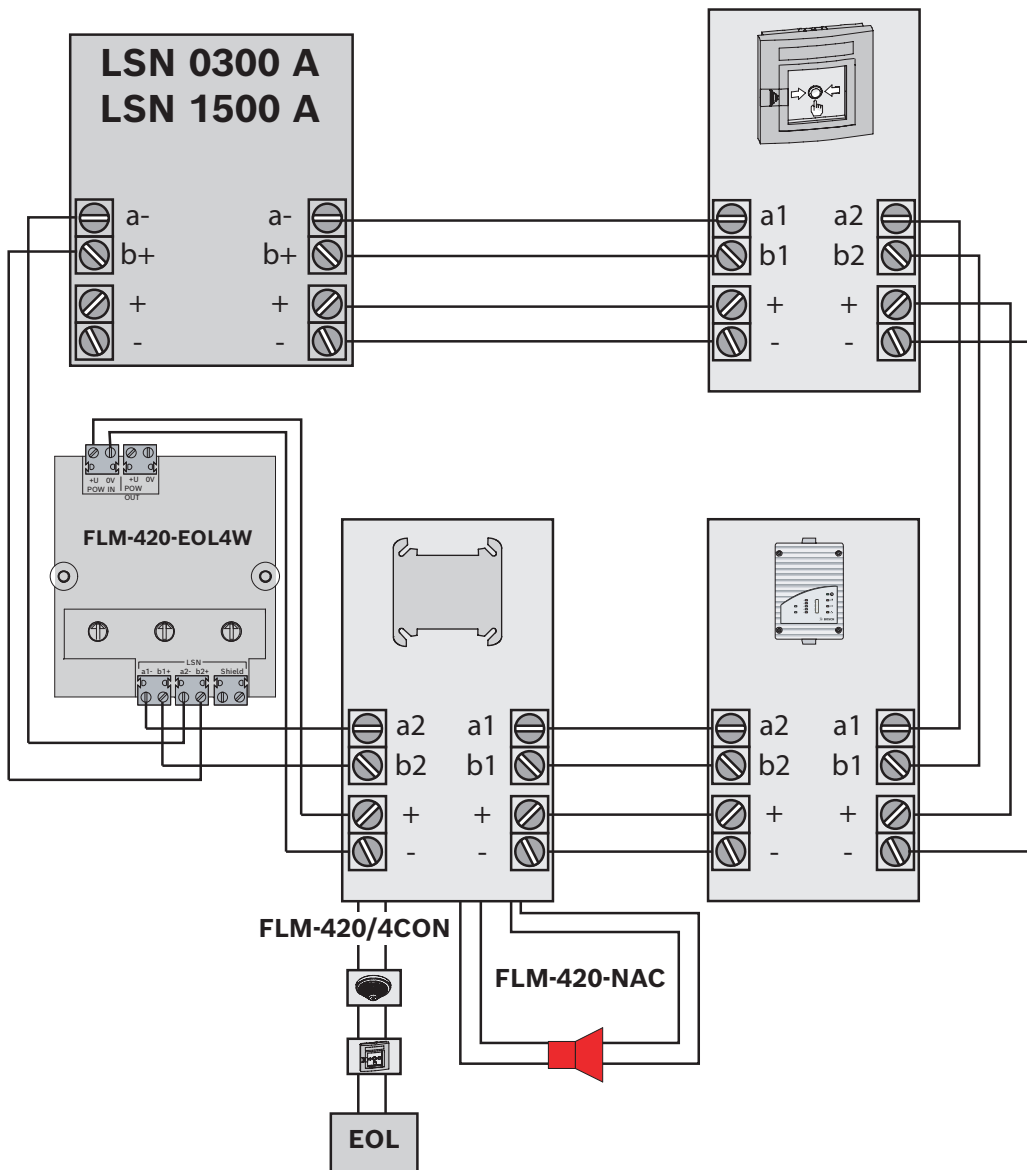
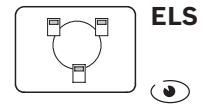
ELS



2.6.2 LSN 0300 A

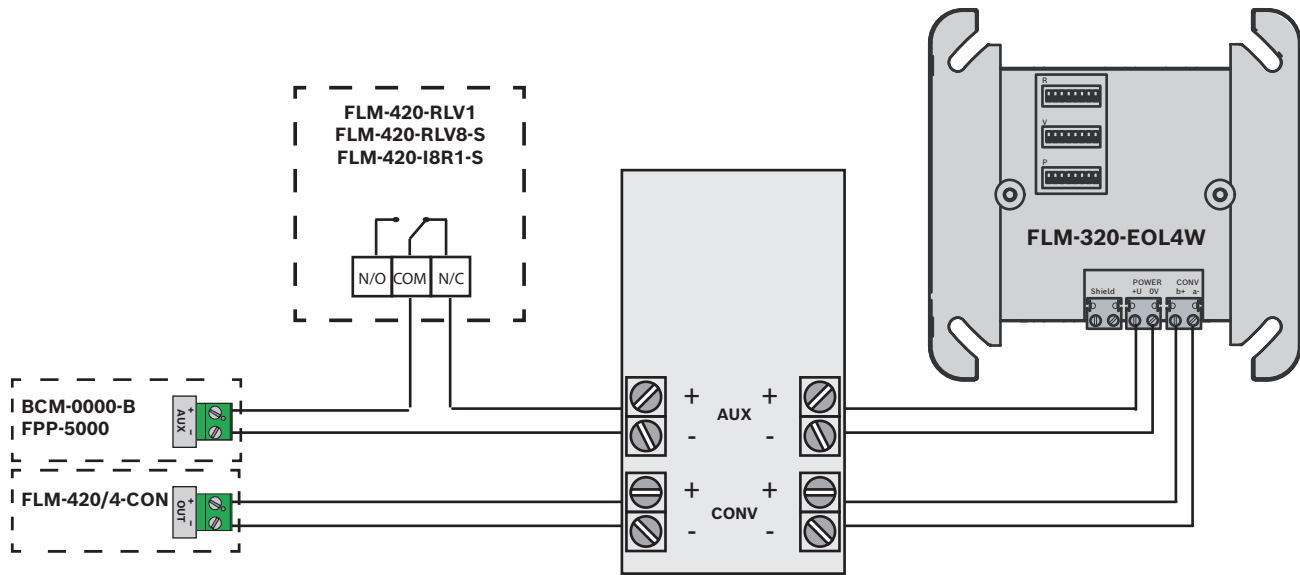


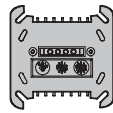
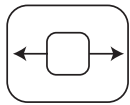




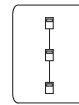
Reset action

ELS

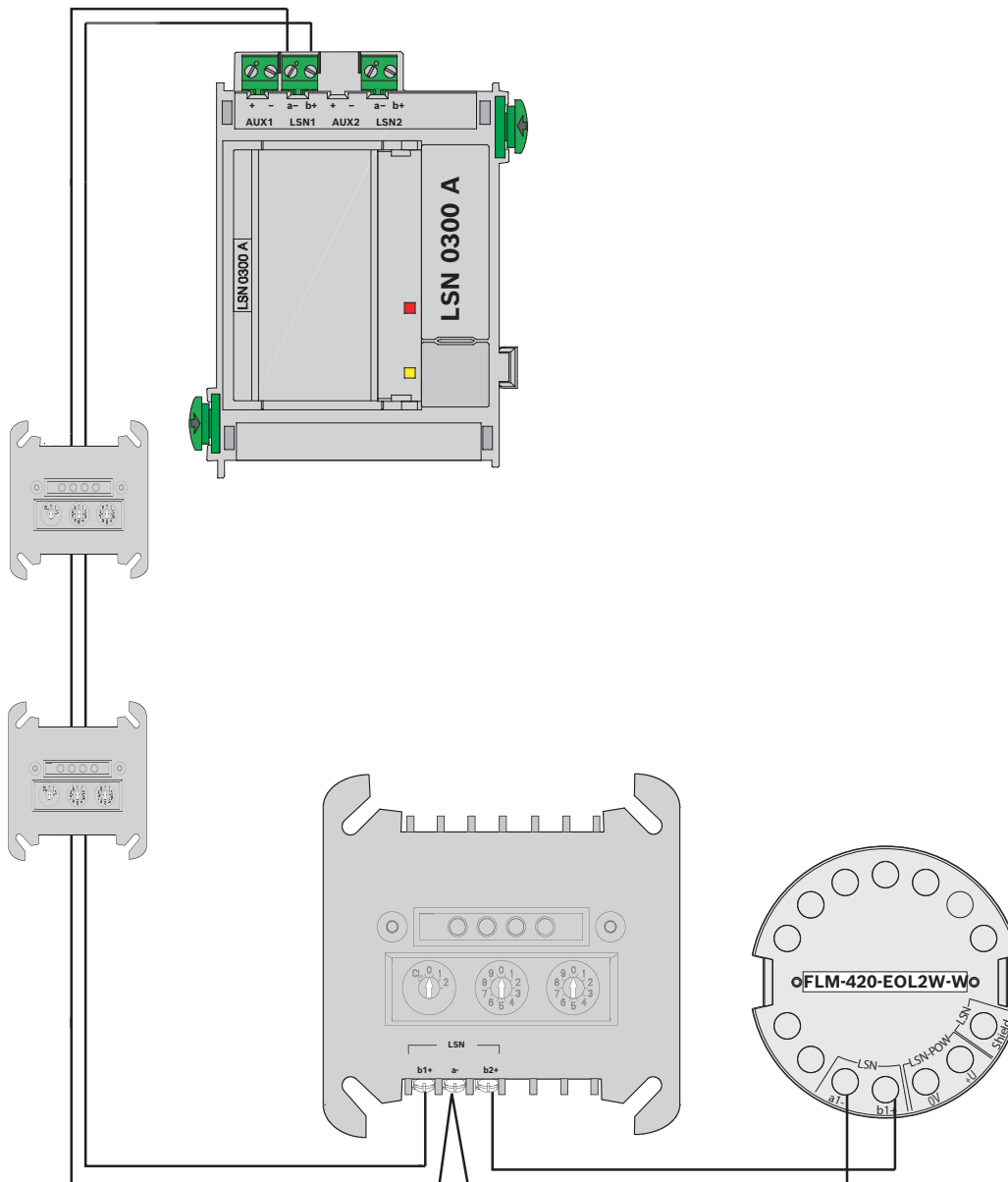


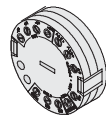
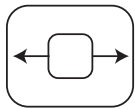


FLM-420-I2-D
 FLM-420-O111-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

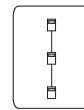


ELS

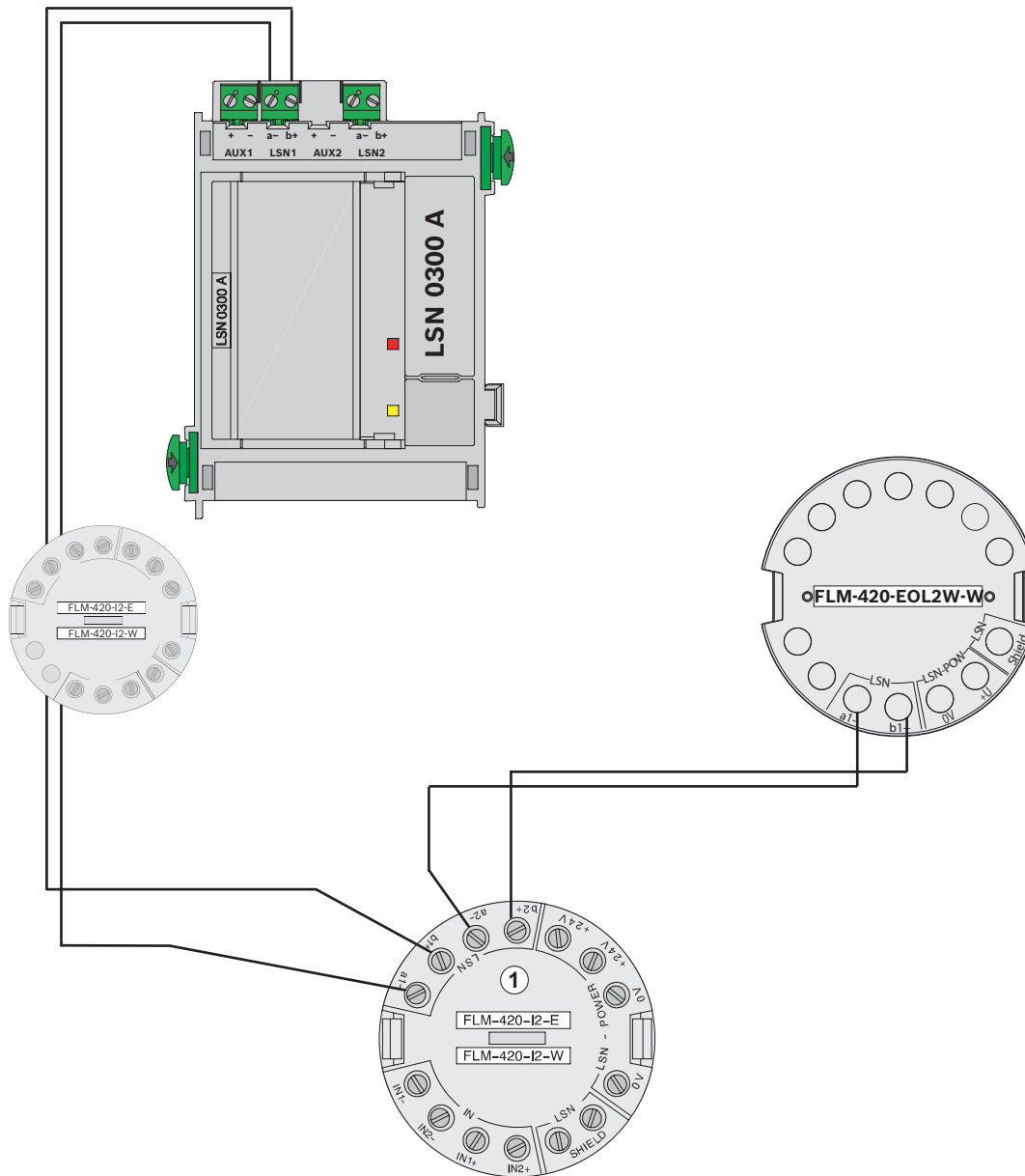


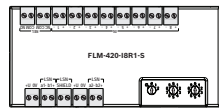
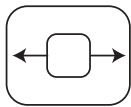


FLM-420-12-E/W

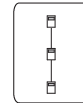


ELS

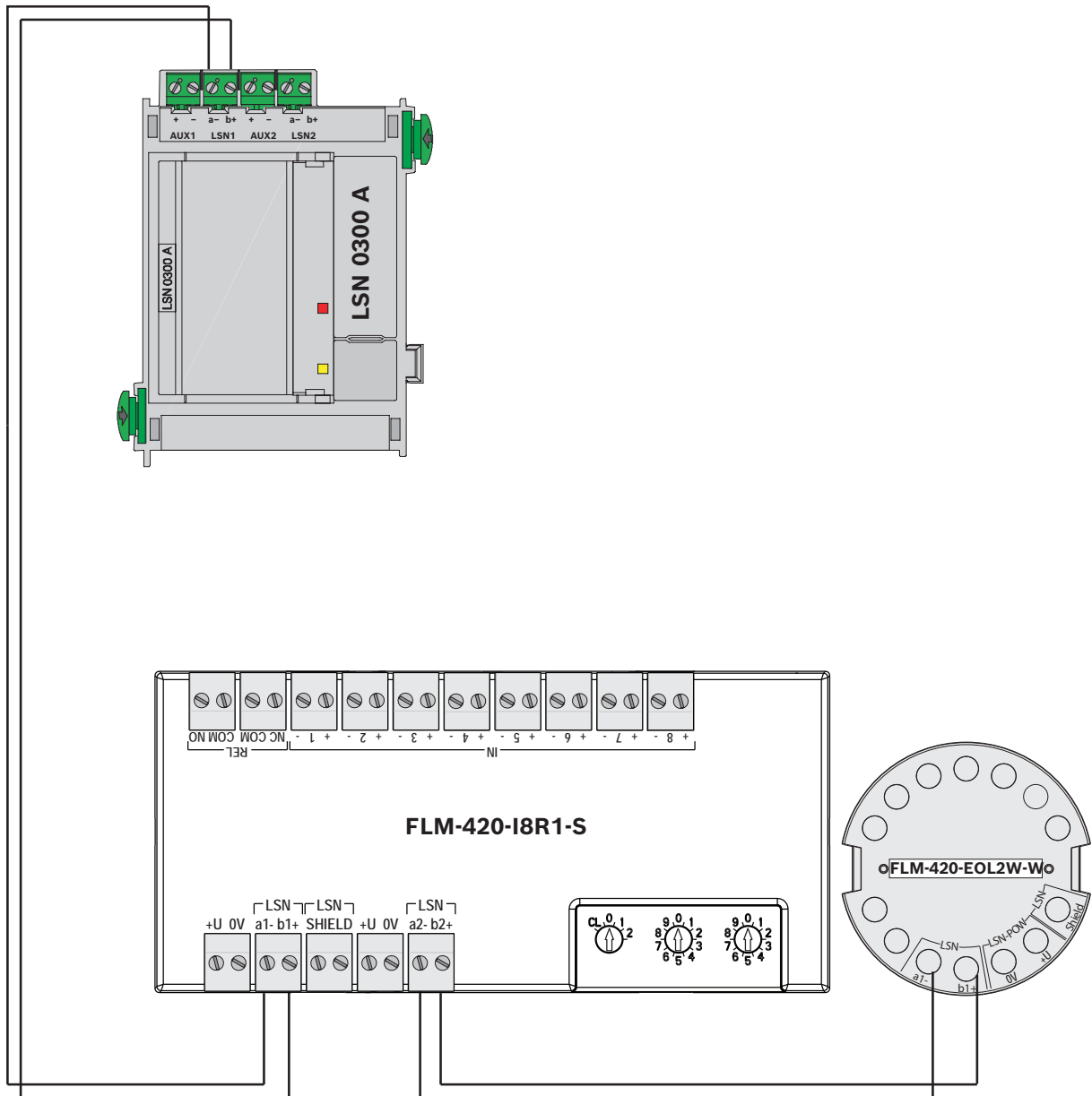


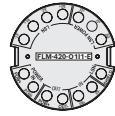
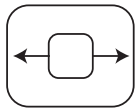


FLM-420-18R1-S

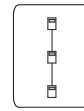


ELS

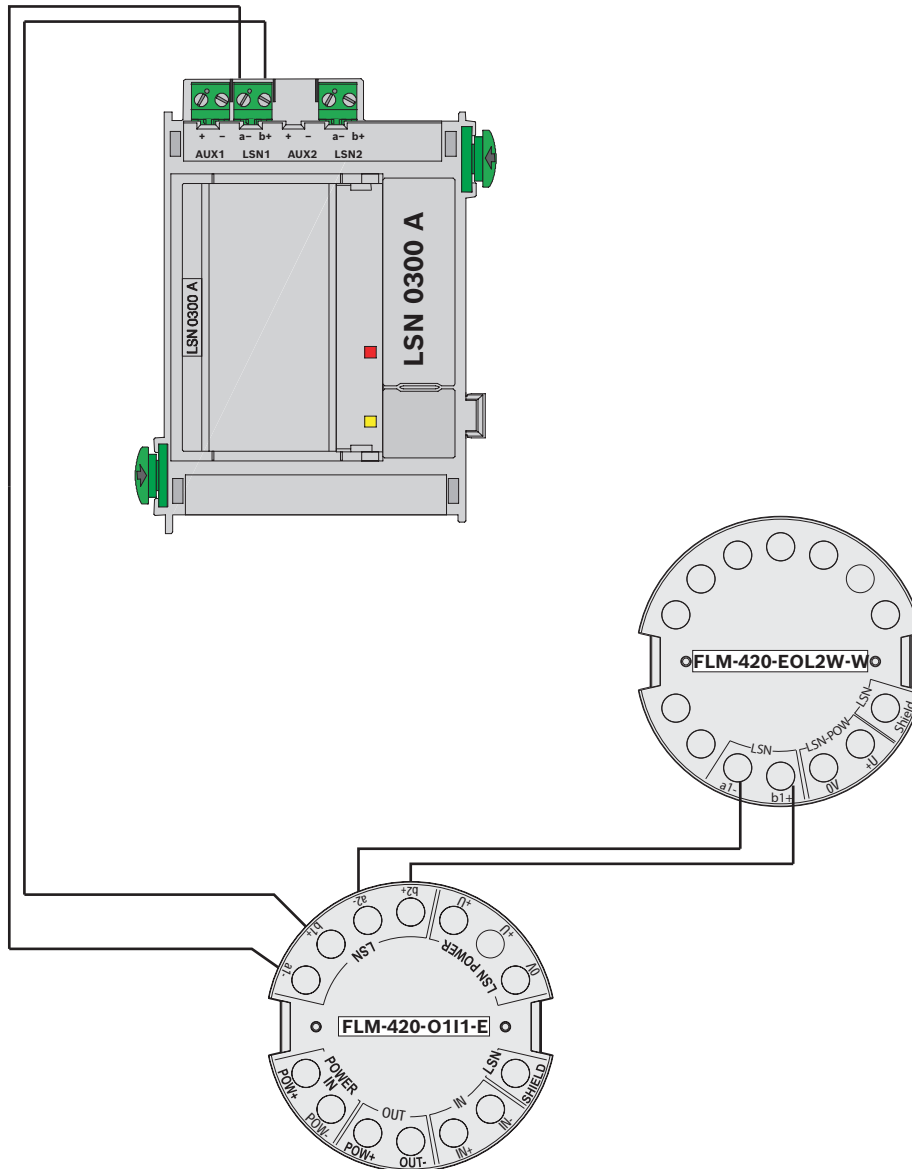


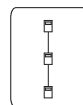
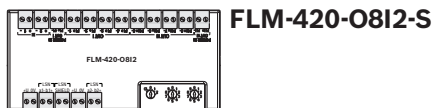
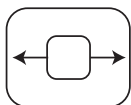


FLM-420-O1I1-E

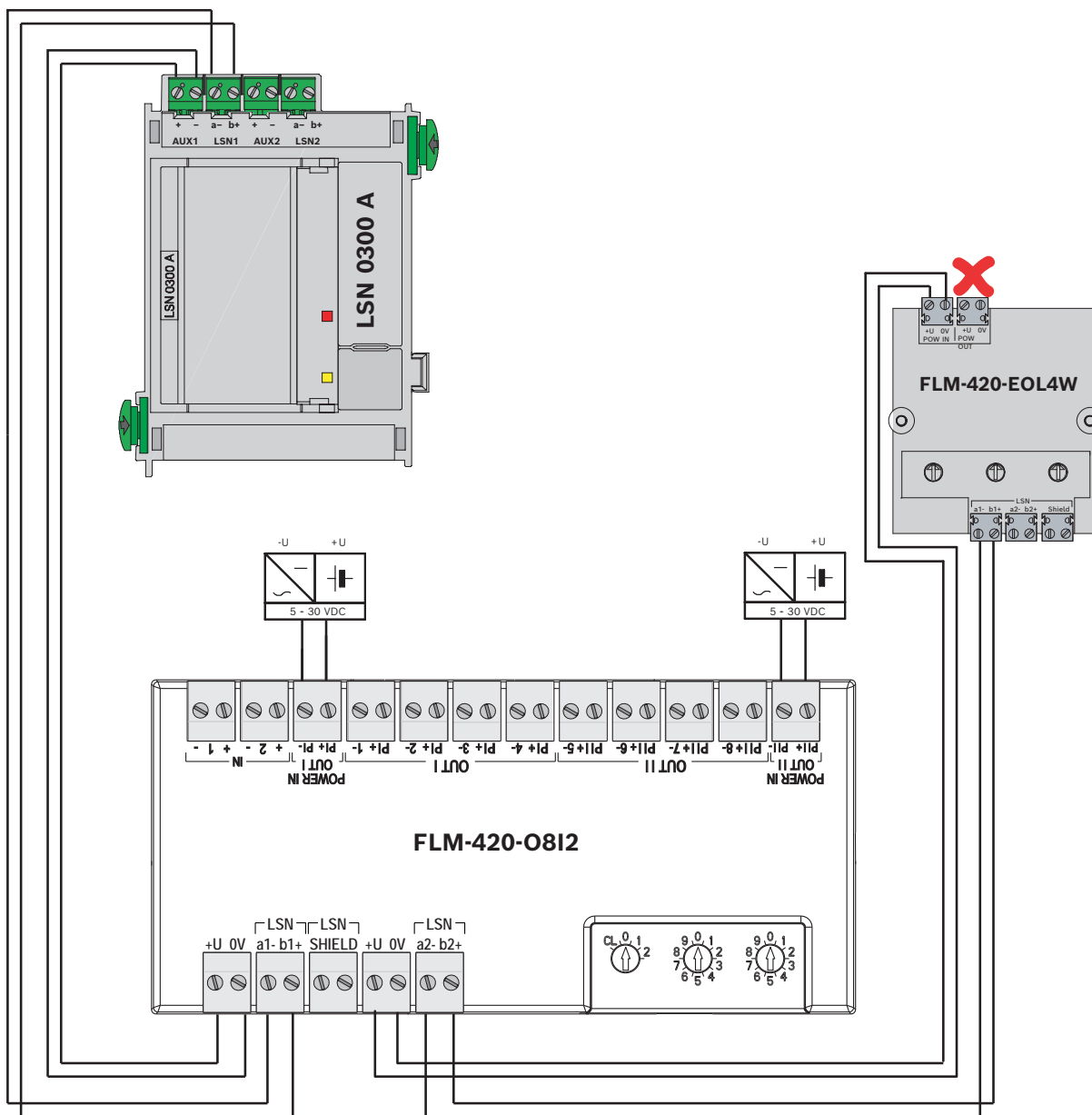


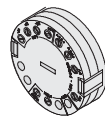
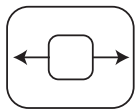
ELS



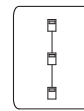


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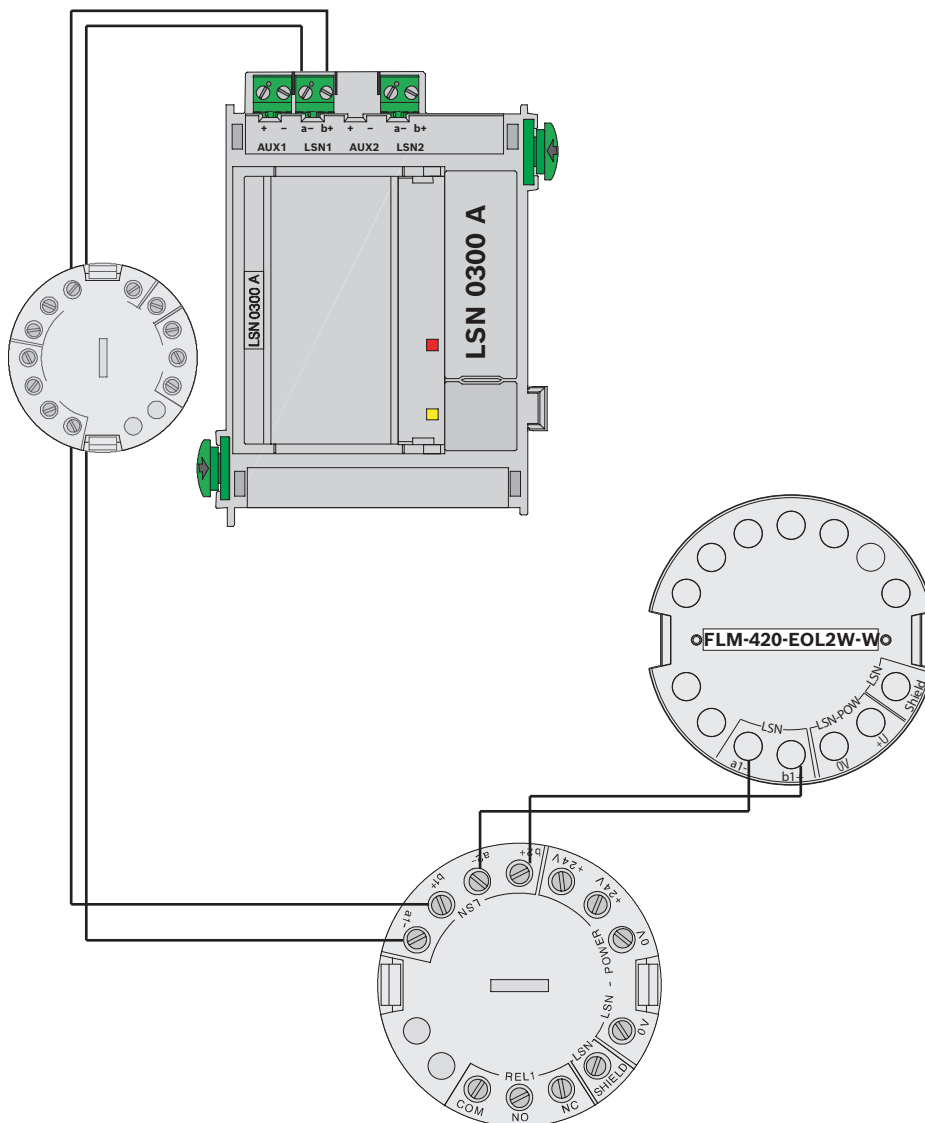


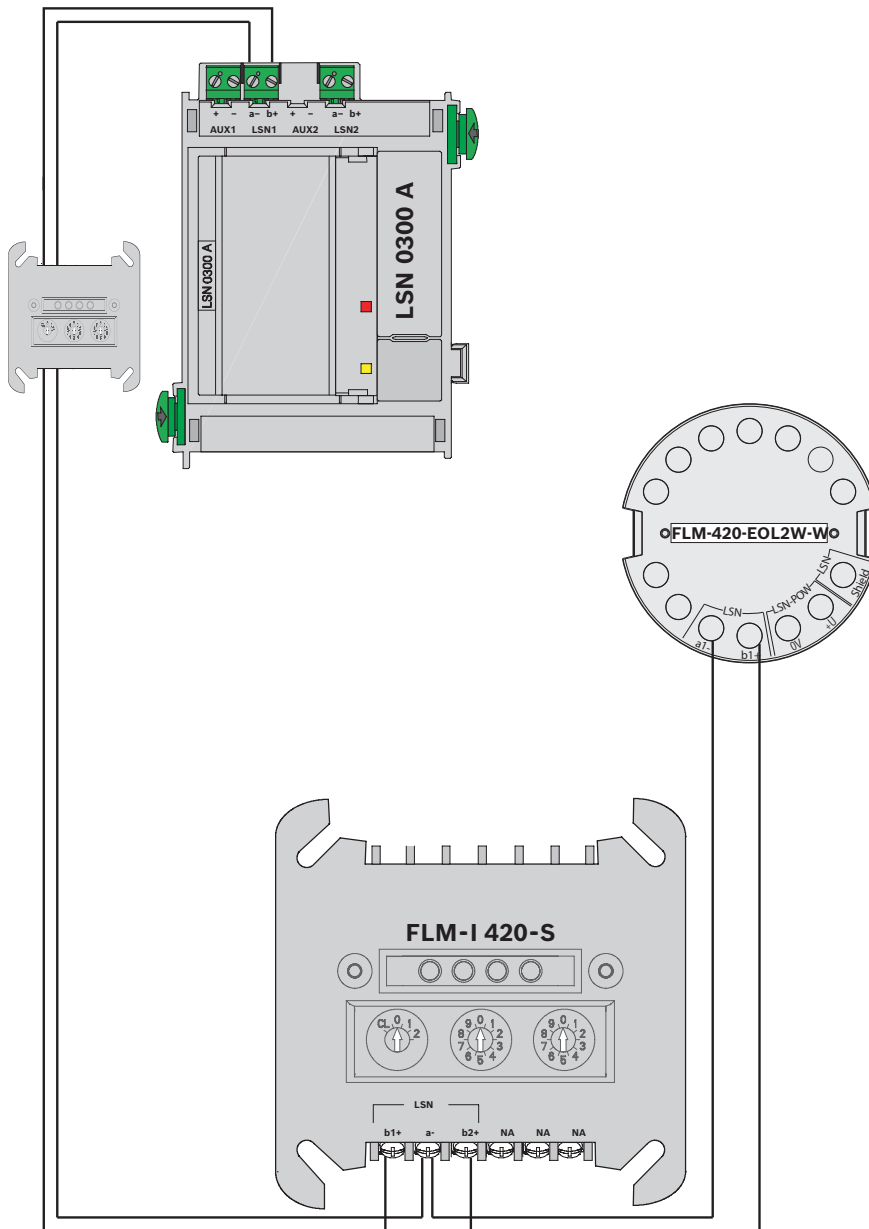
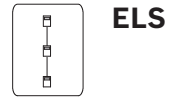
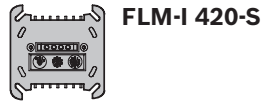
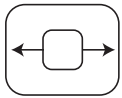


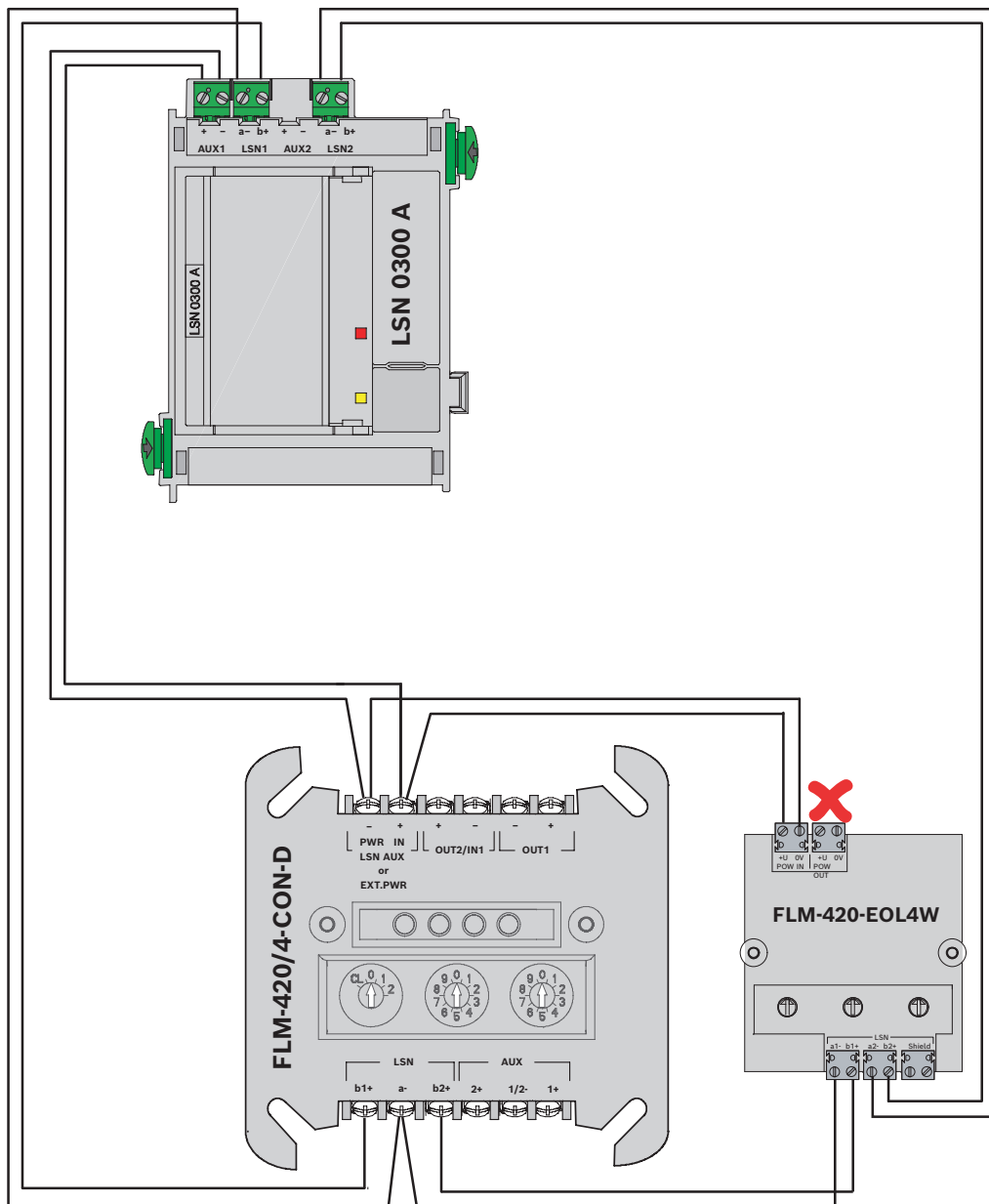
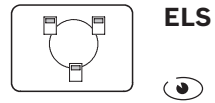
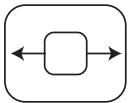
FLM-420-I2-E/-W
FLM-420-RLV1-E

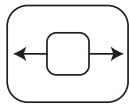


ELS

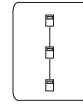




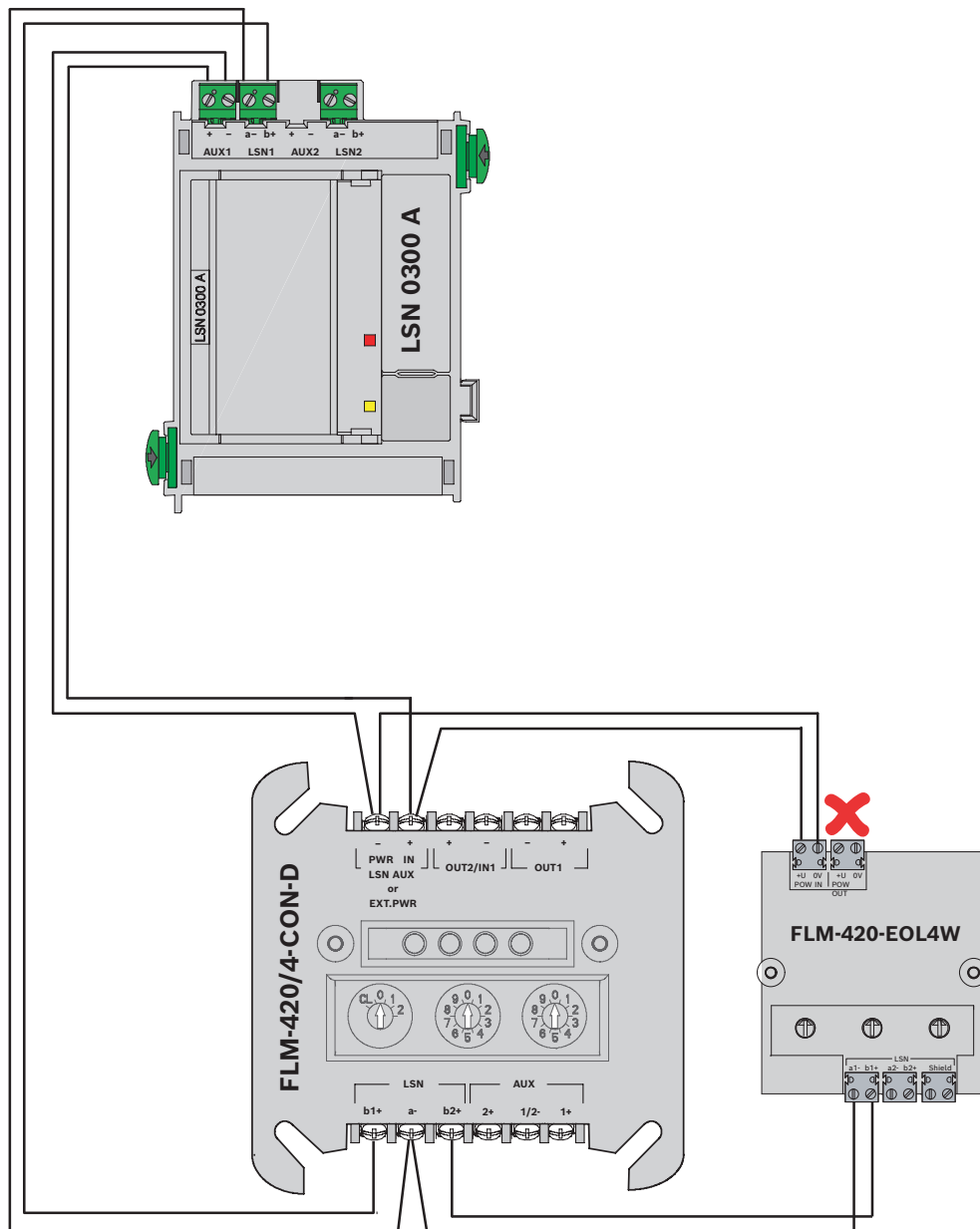


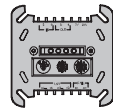
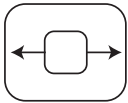


**FLM-420/
4-CON-D**

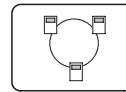


ELS

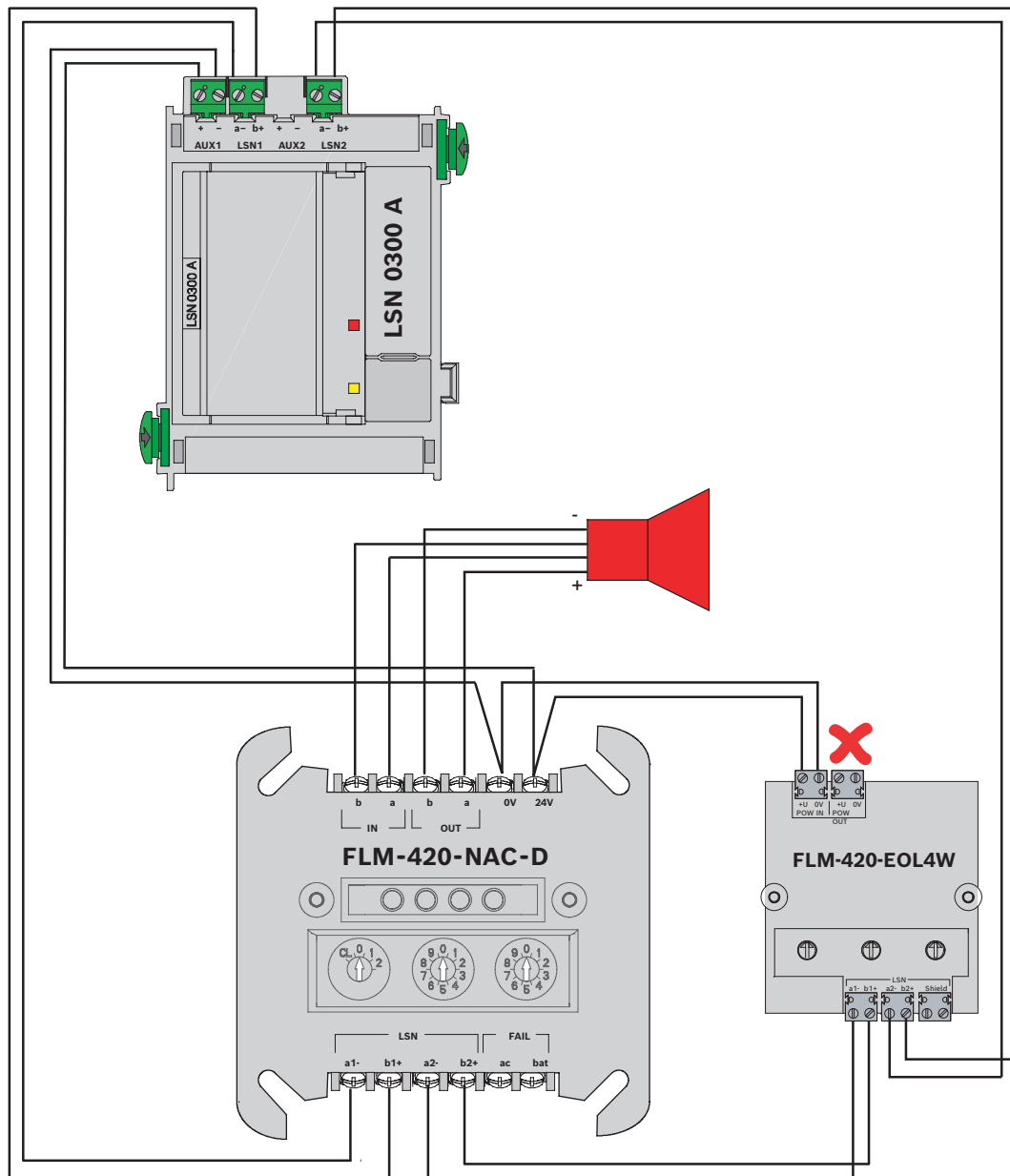


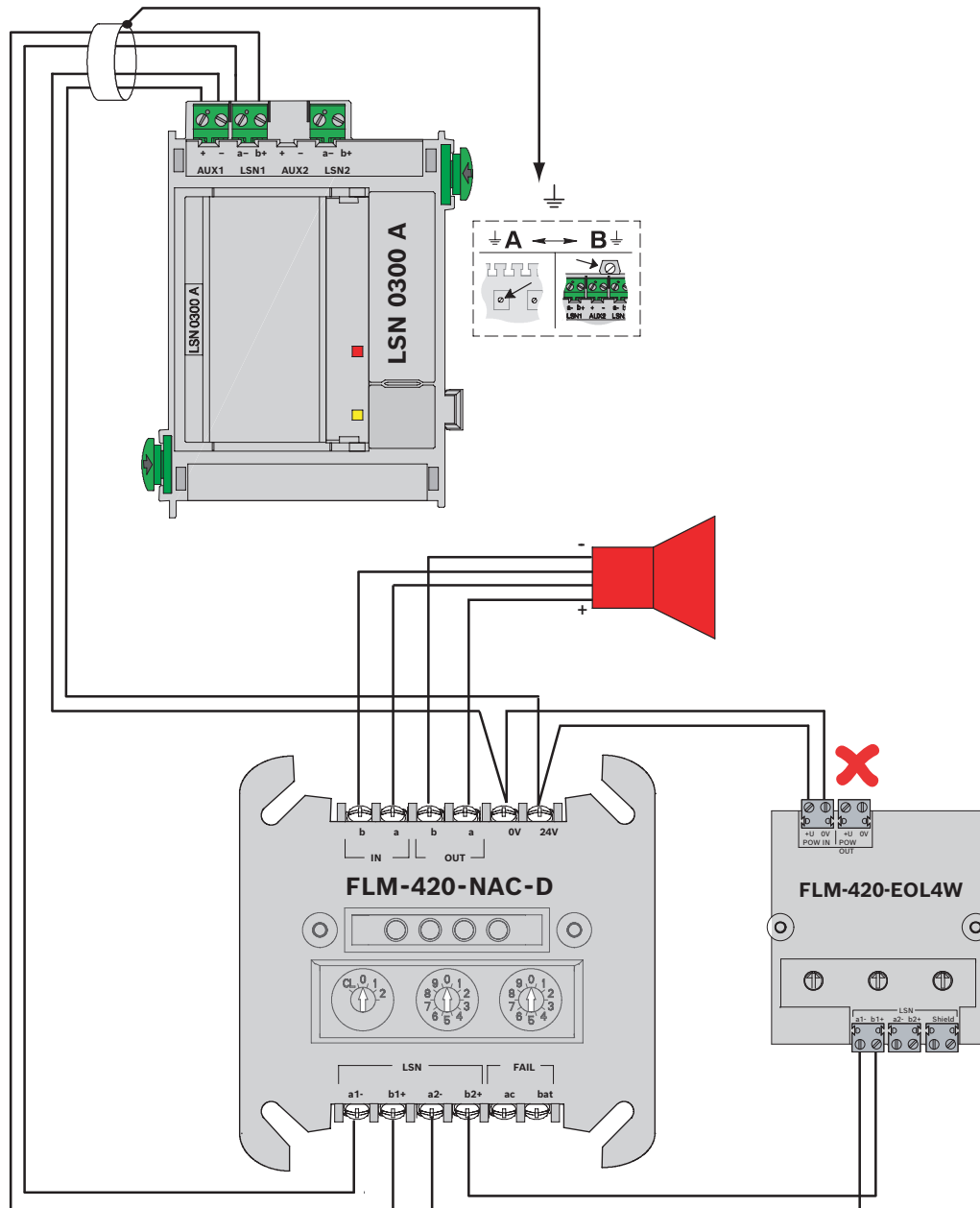
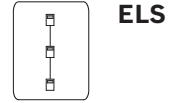
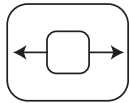


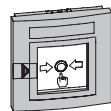
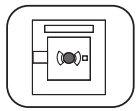
FLM-420-NAC-D/S



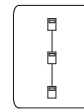
ELS
EN 54-2



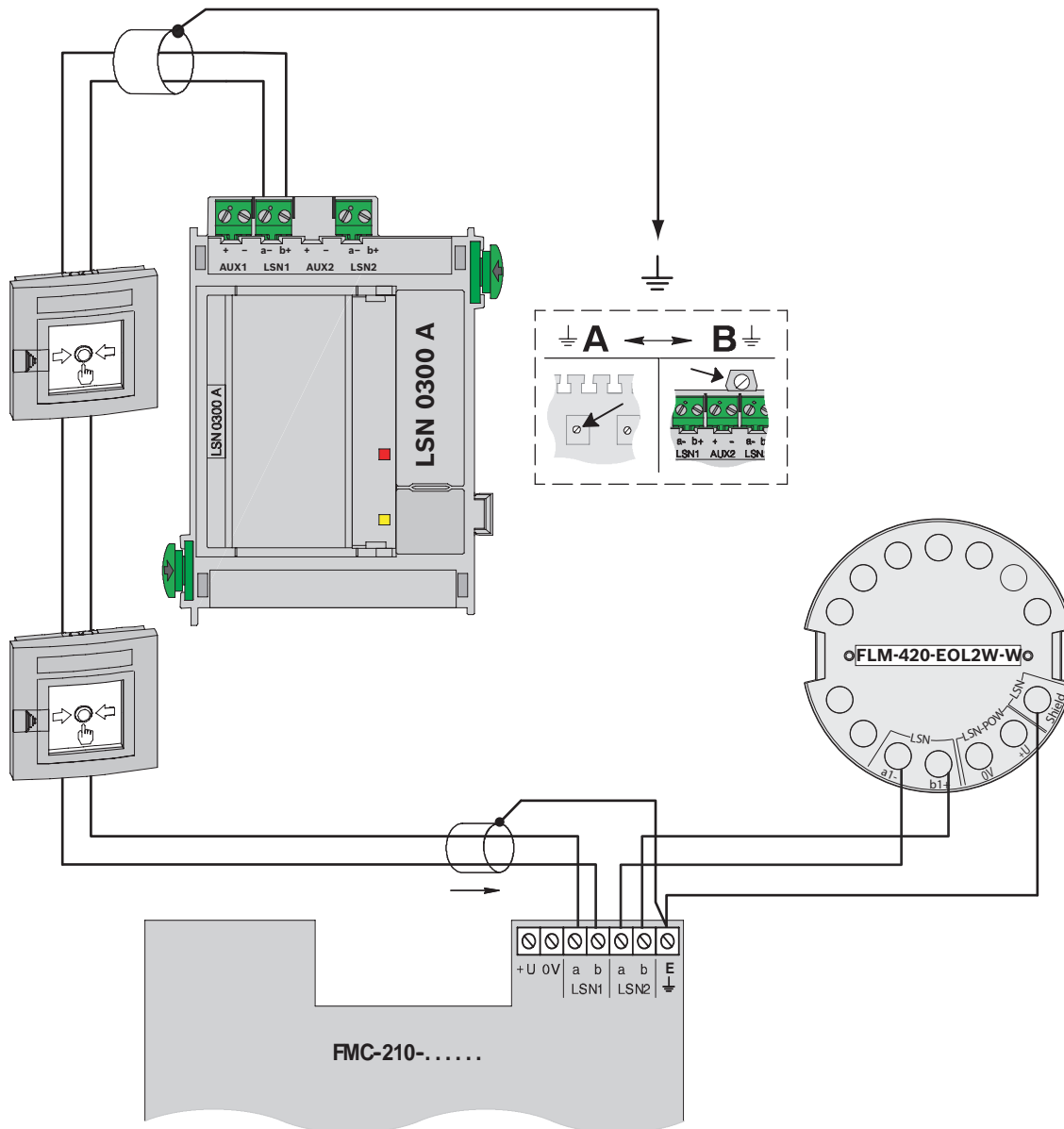


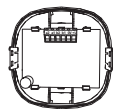


FMC-210...

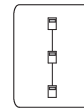


ELS

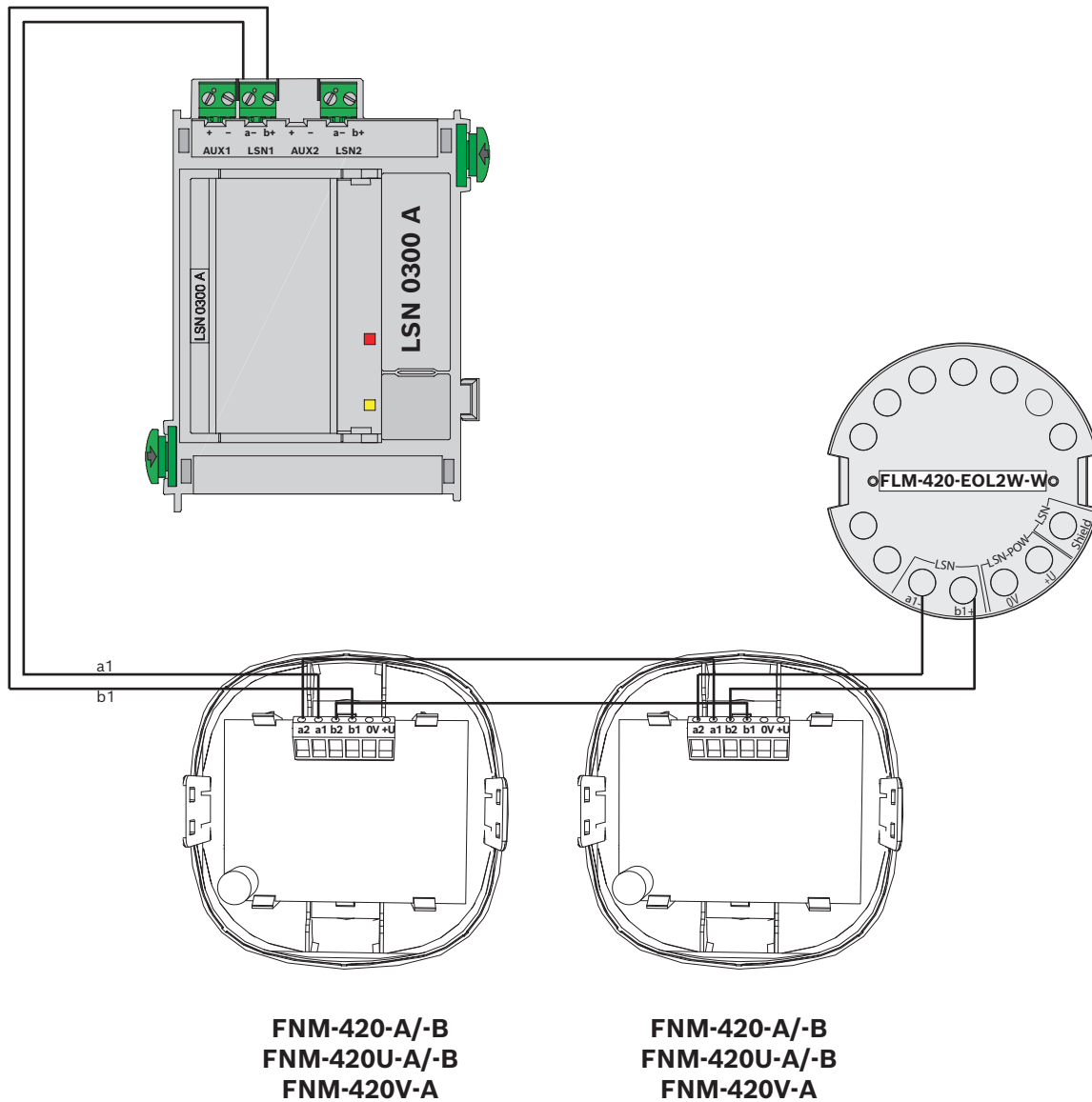




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS

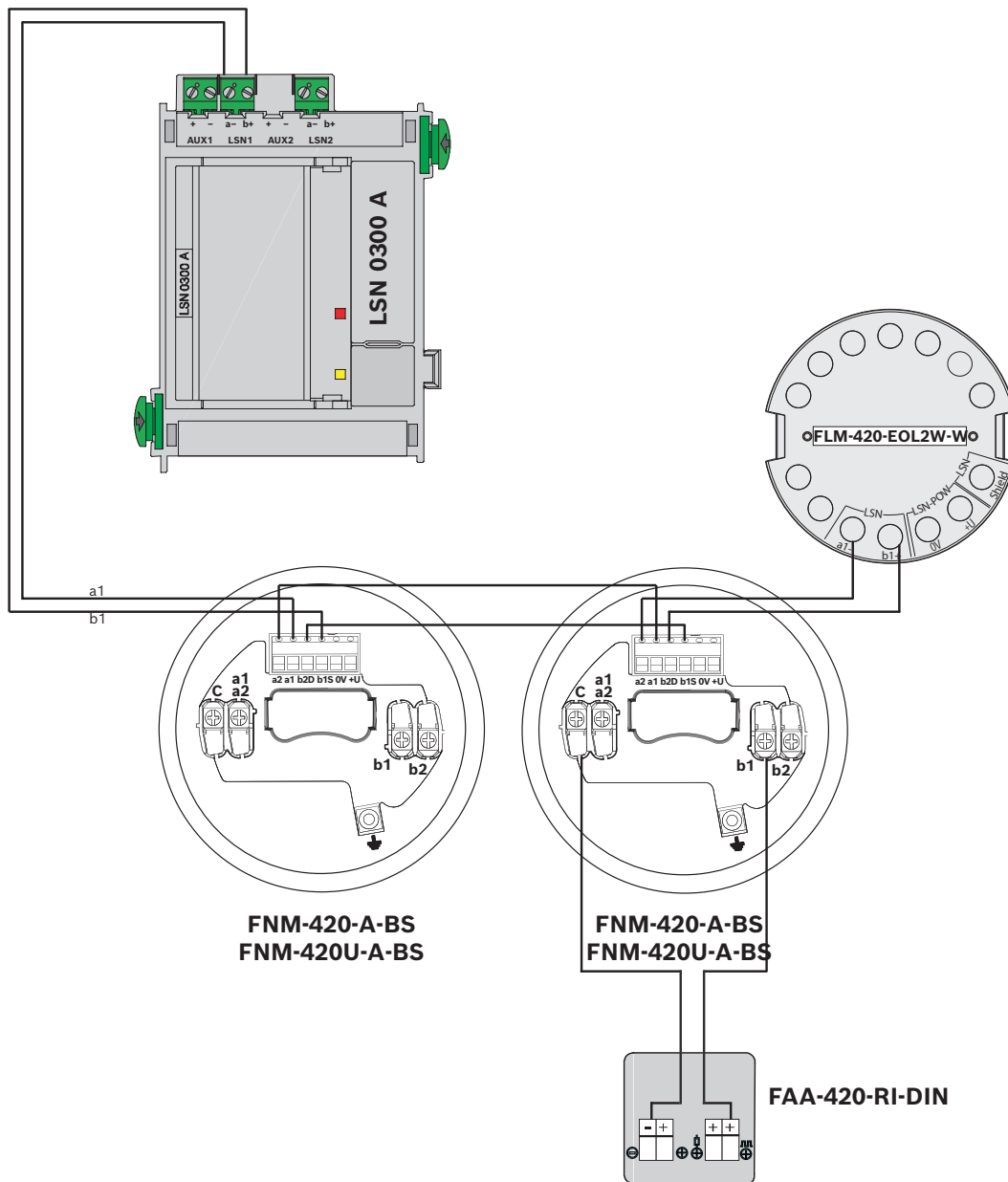




FNM-420-A-BS
FNM-420U-A-BS



ELC

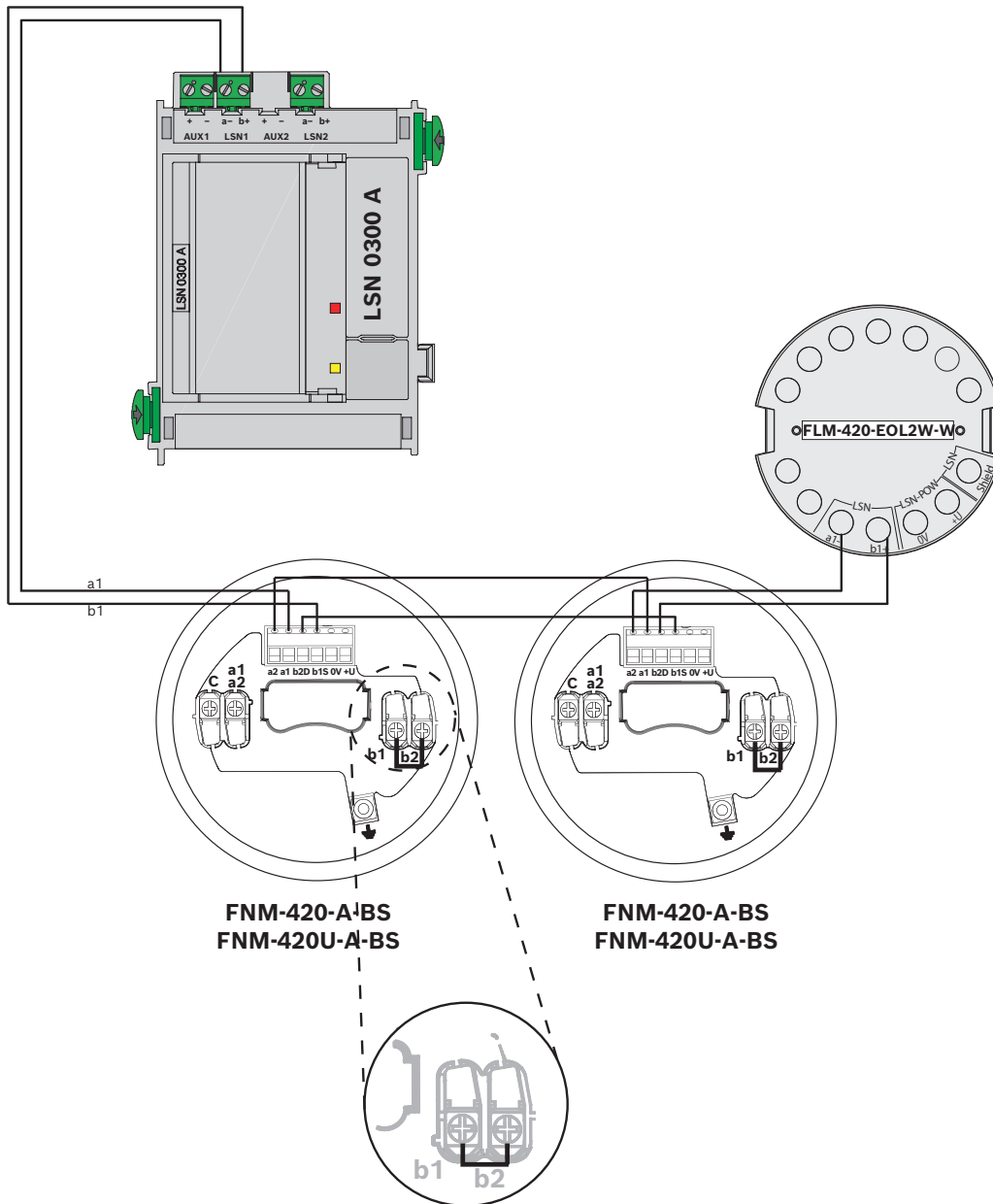


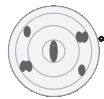


FNM-420-A-BS
FNM-420U-A-BS



ELS

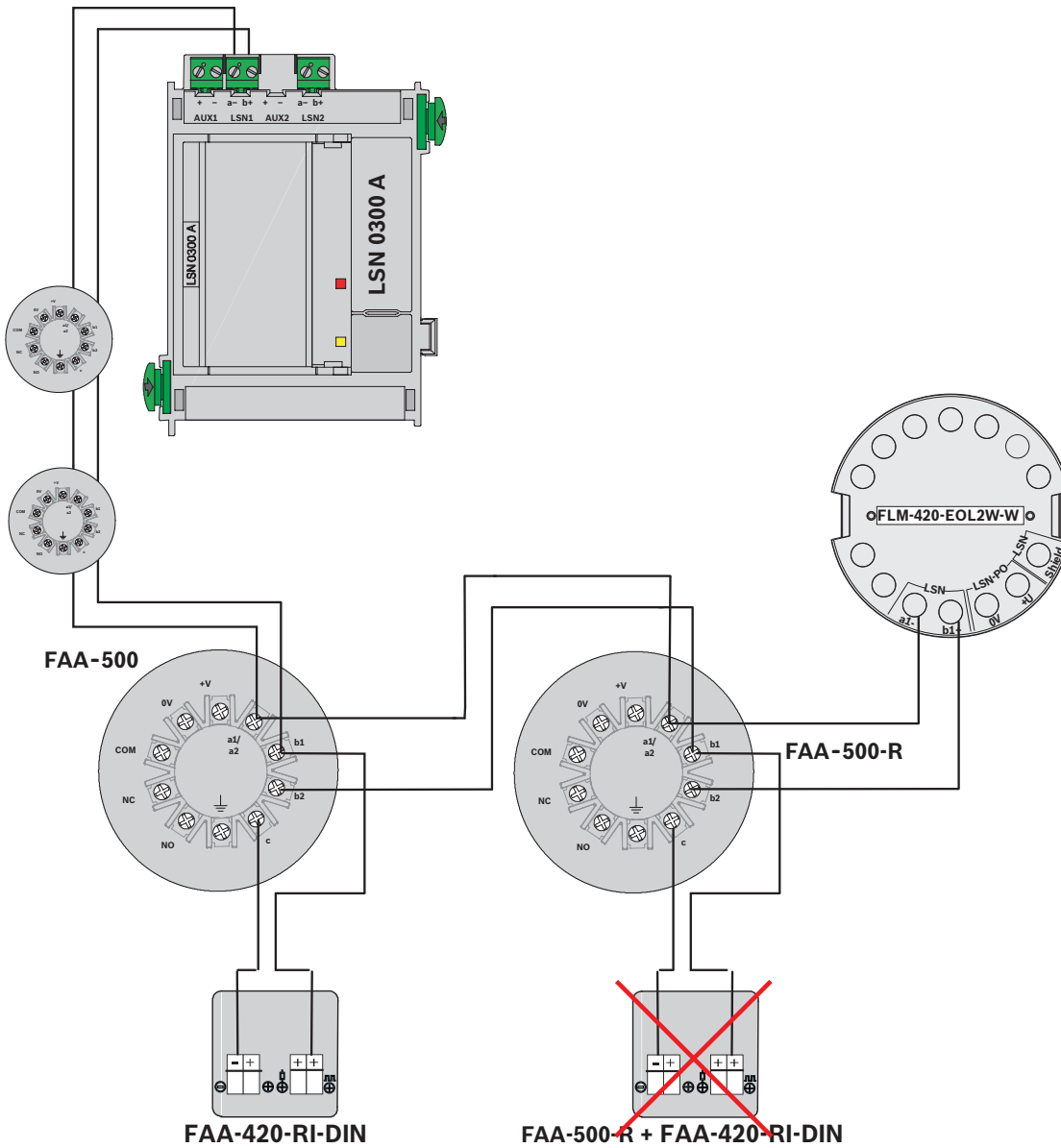


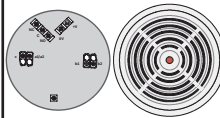


FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

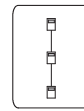


ELS

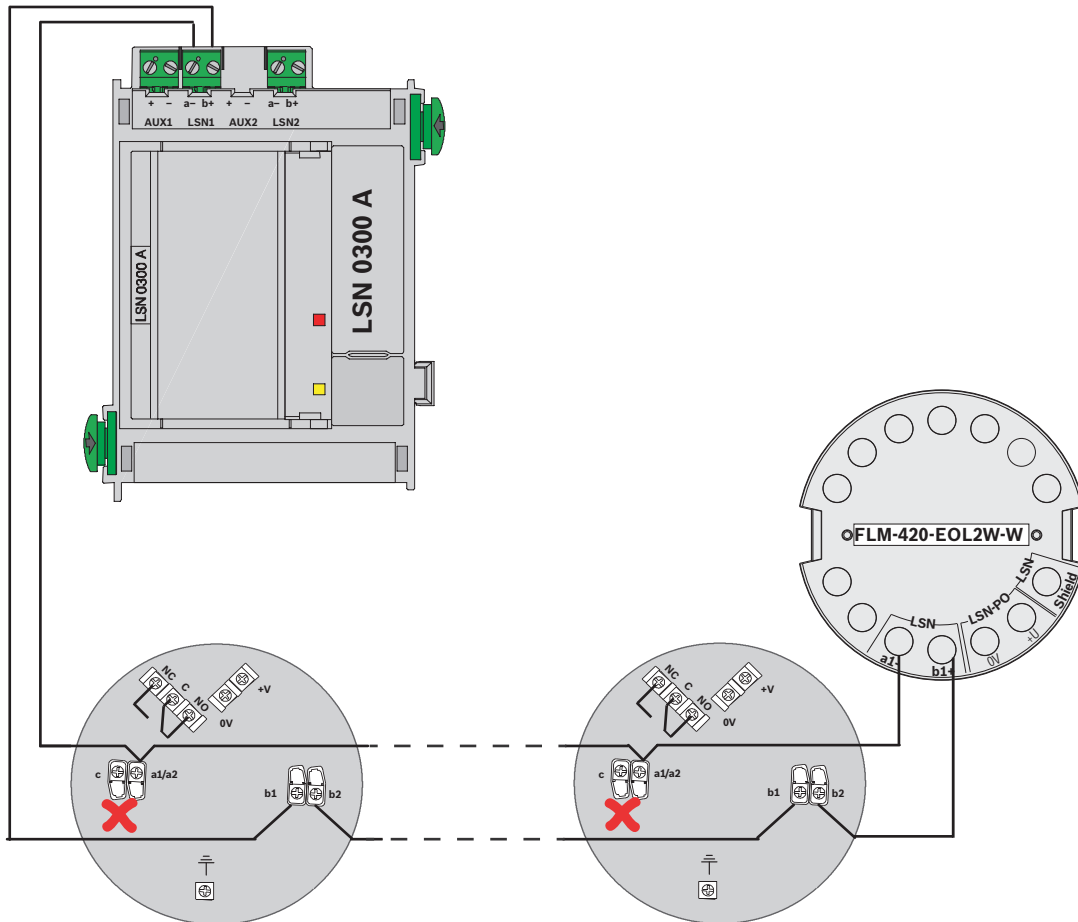


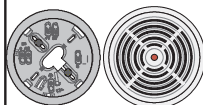


FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R



ELS

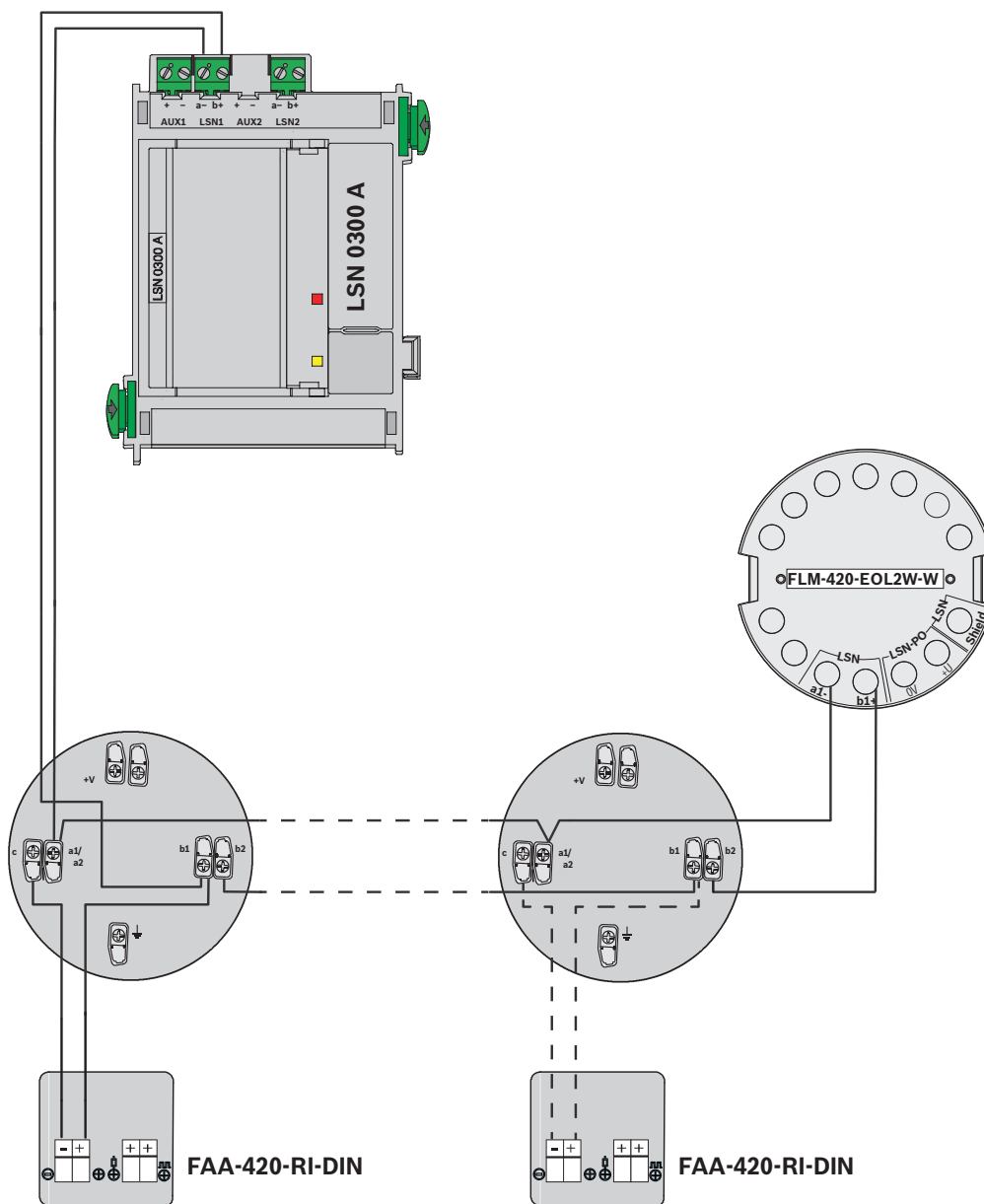


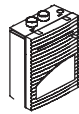


MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R

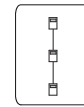


ELS

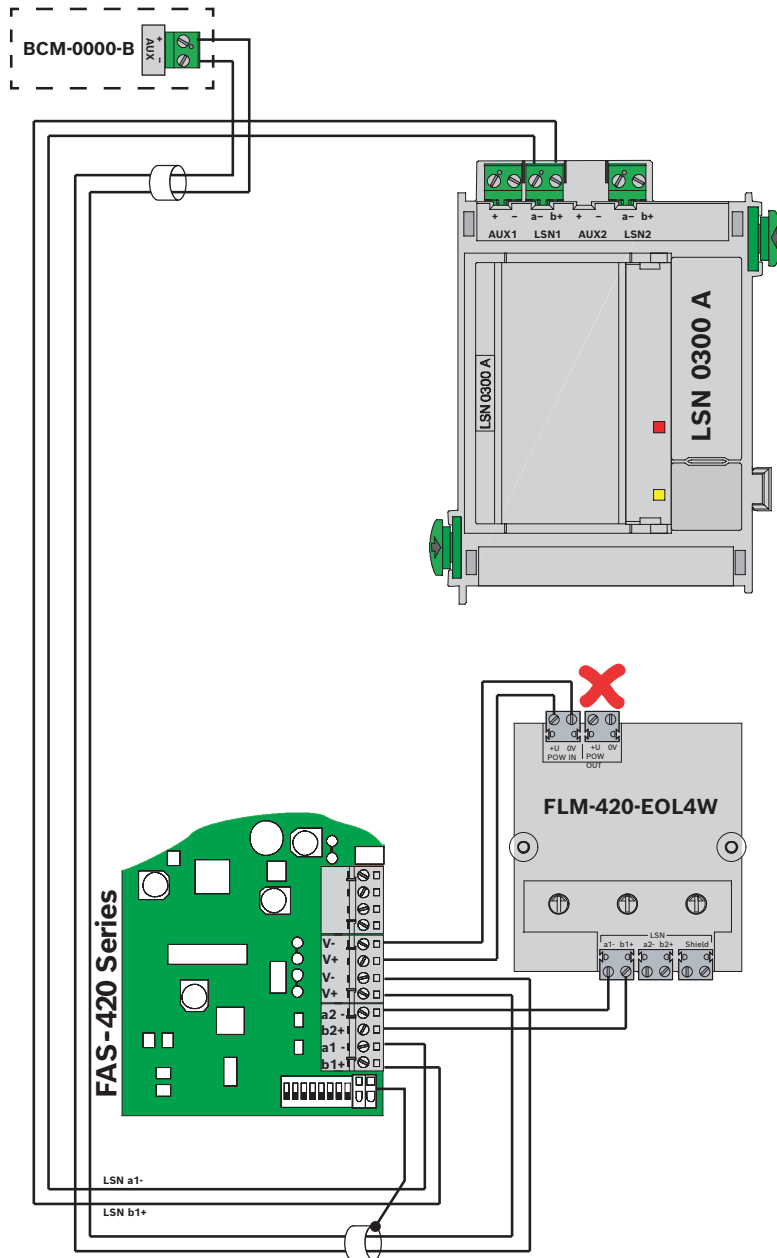


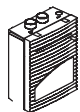


FAS-420 Series

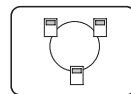


ELS

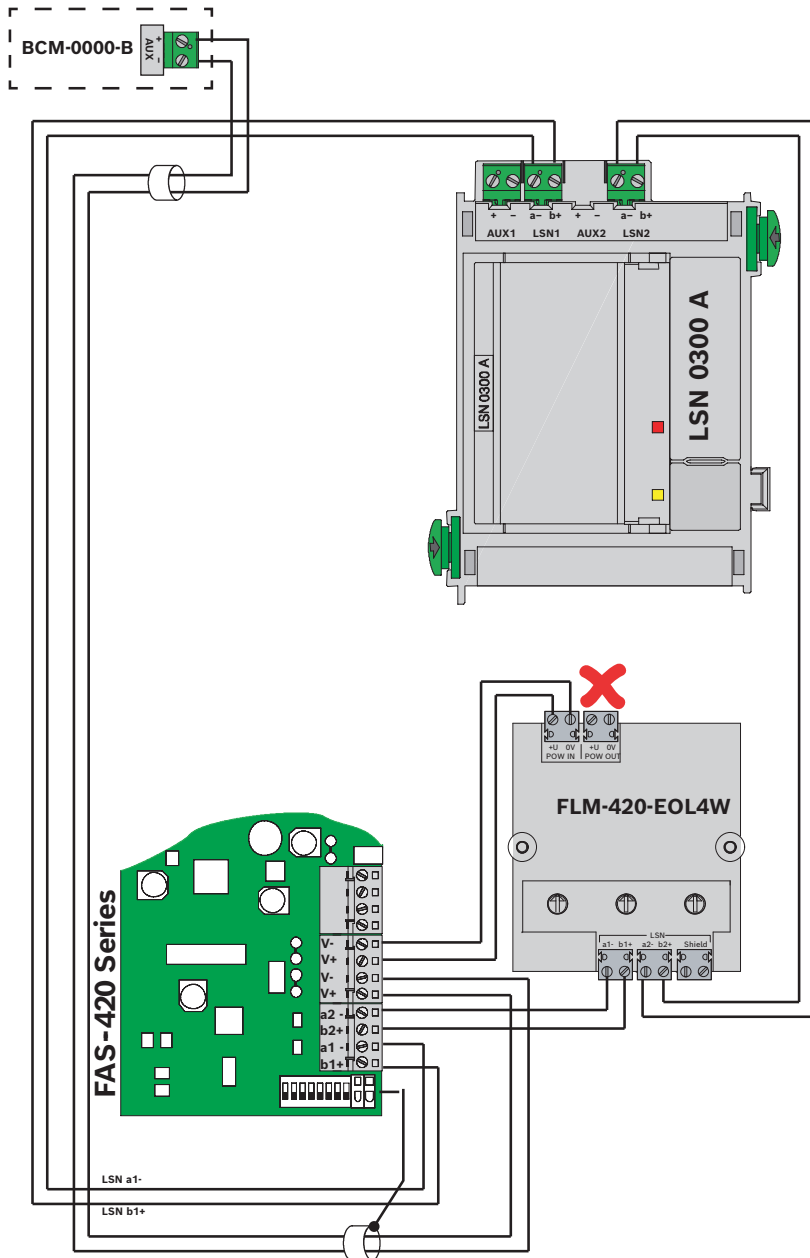


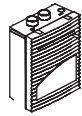


FAS-420 Series

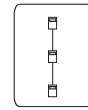


ELS

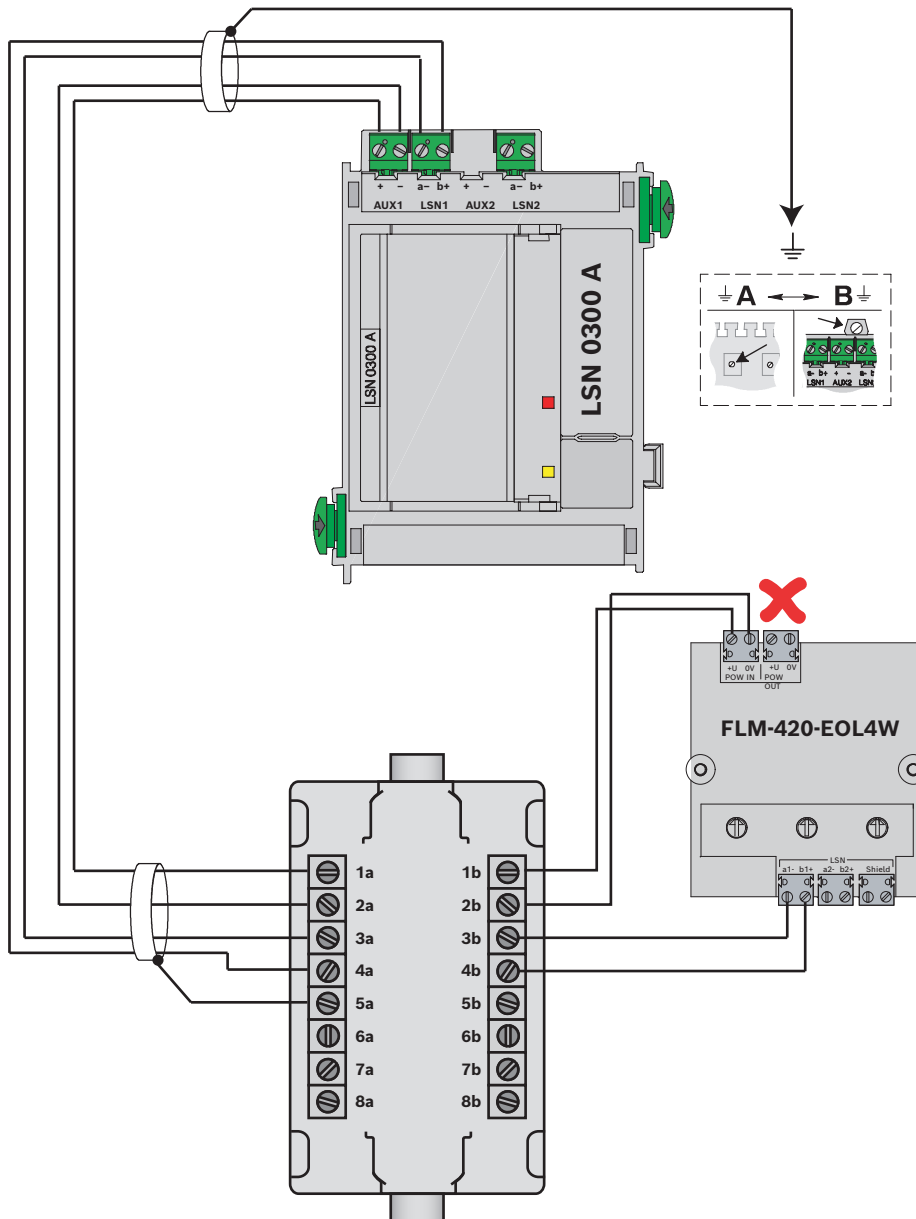


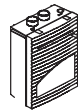


FAS-420-TM Series

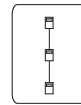


ELS

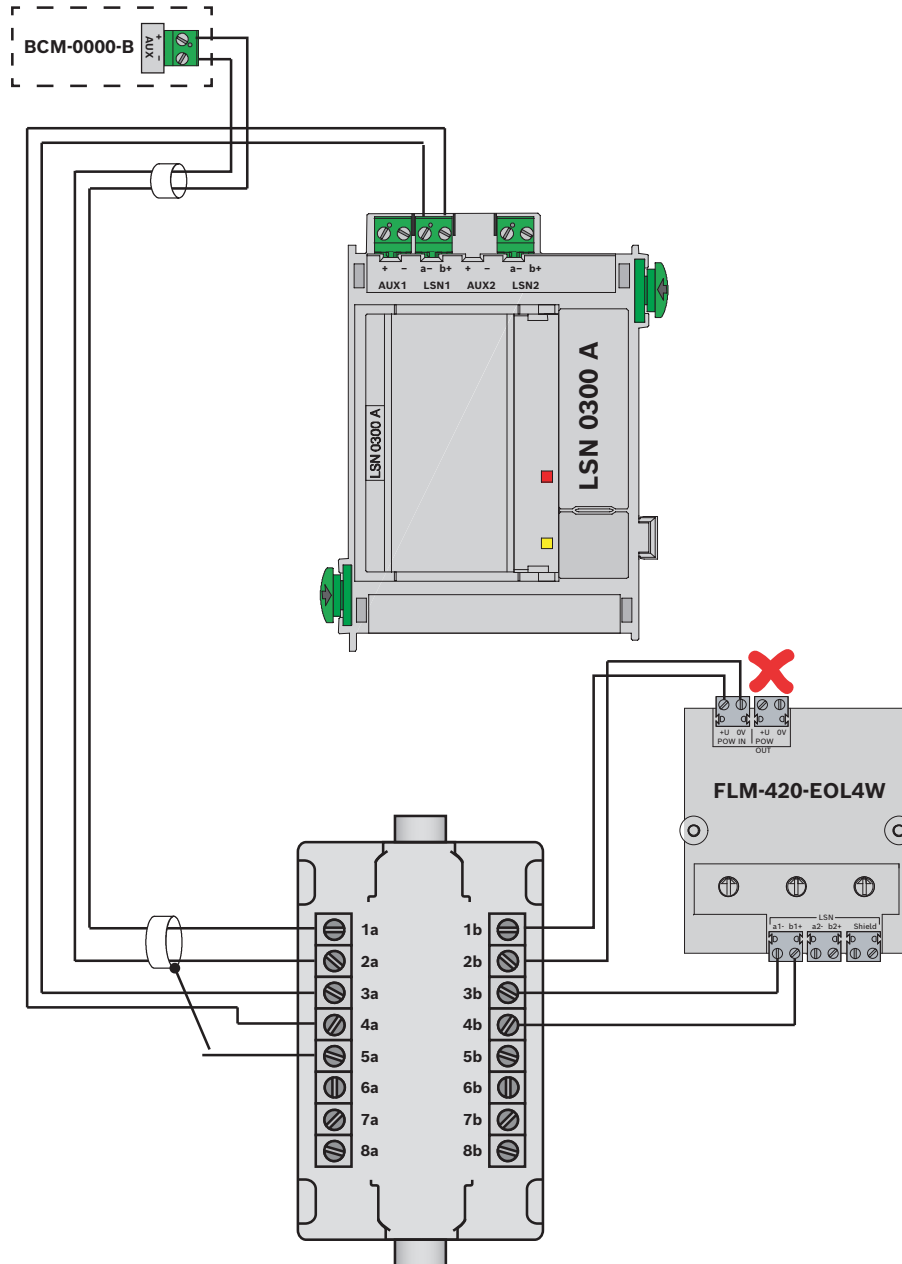


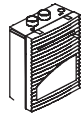


FAS-420-TM Series

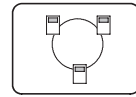


ELS

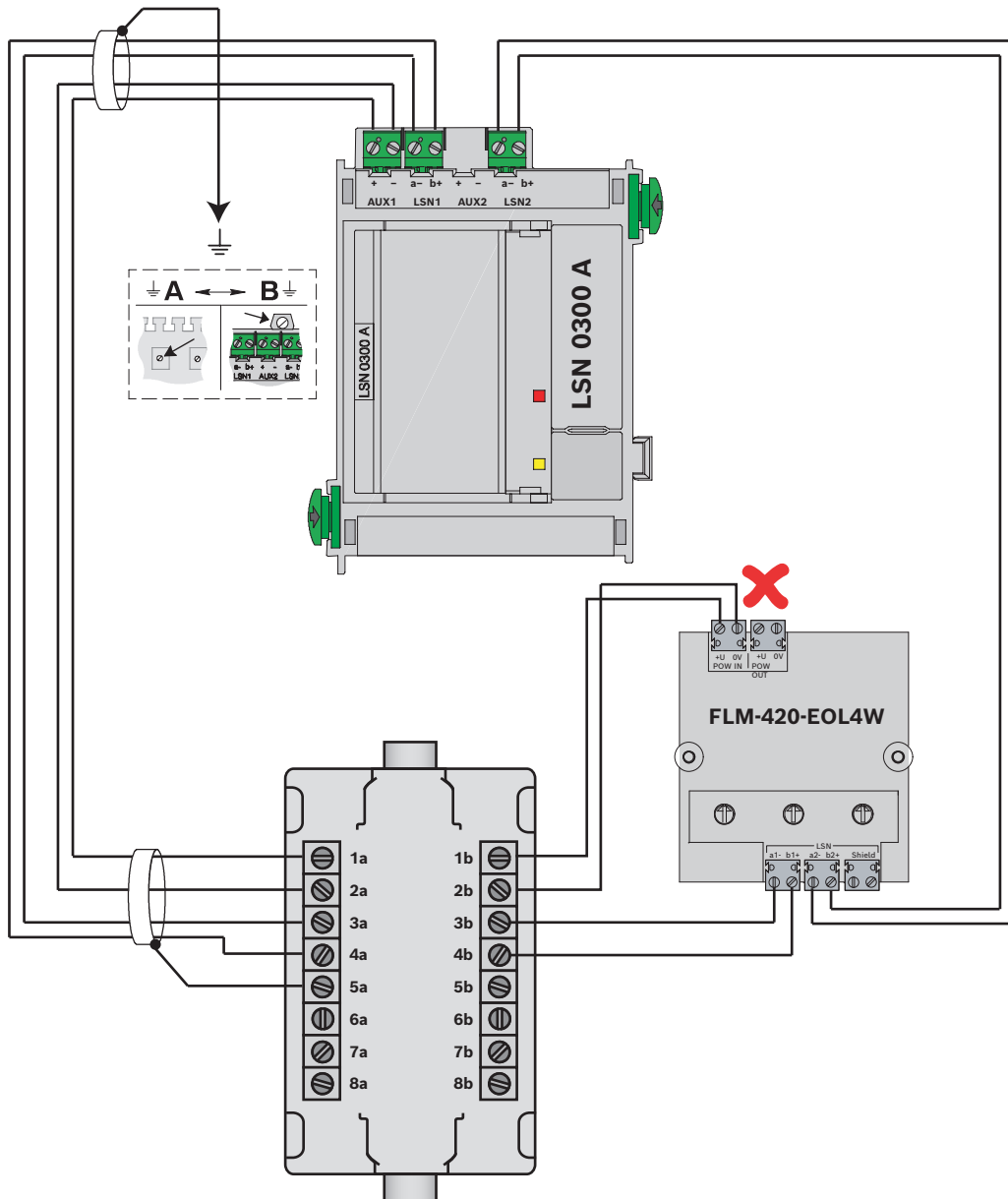


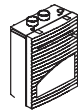


FAS-420-TM Series

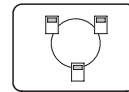


ELS

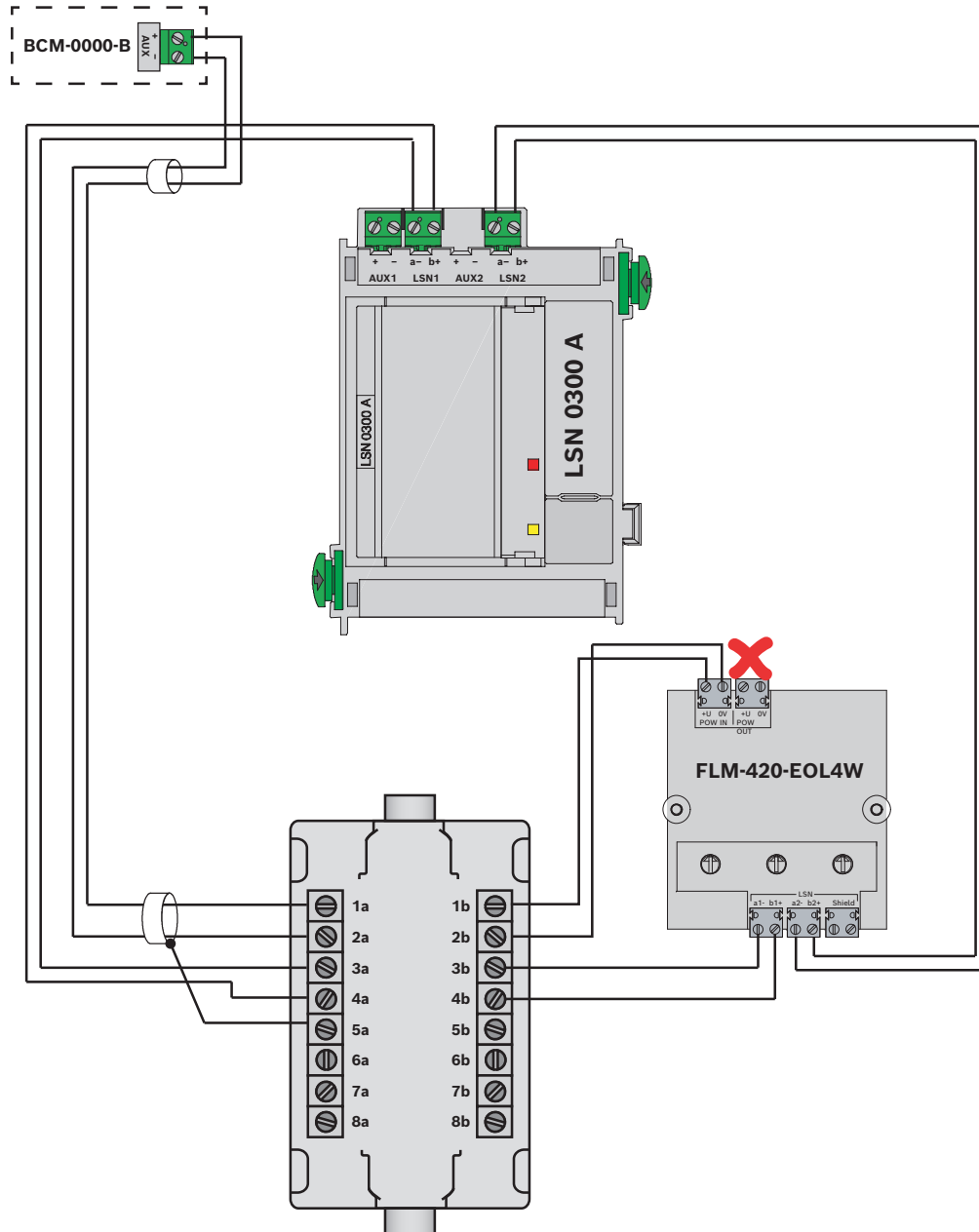




FAS-420-TM Series

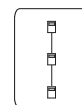


ELS

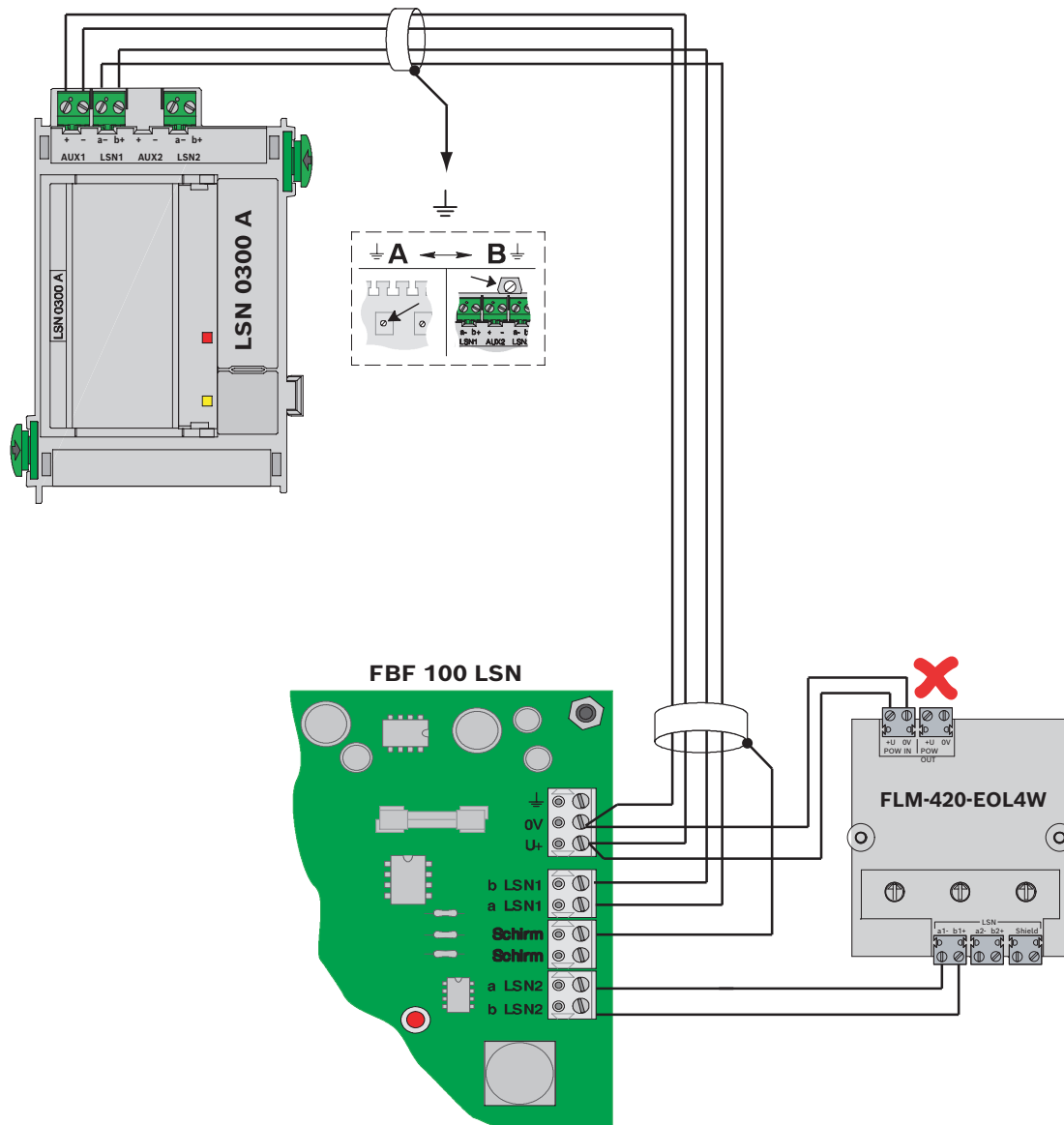


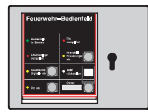


FBF 100 LSN

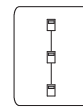


ELS

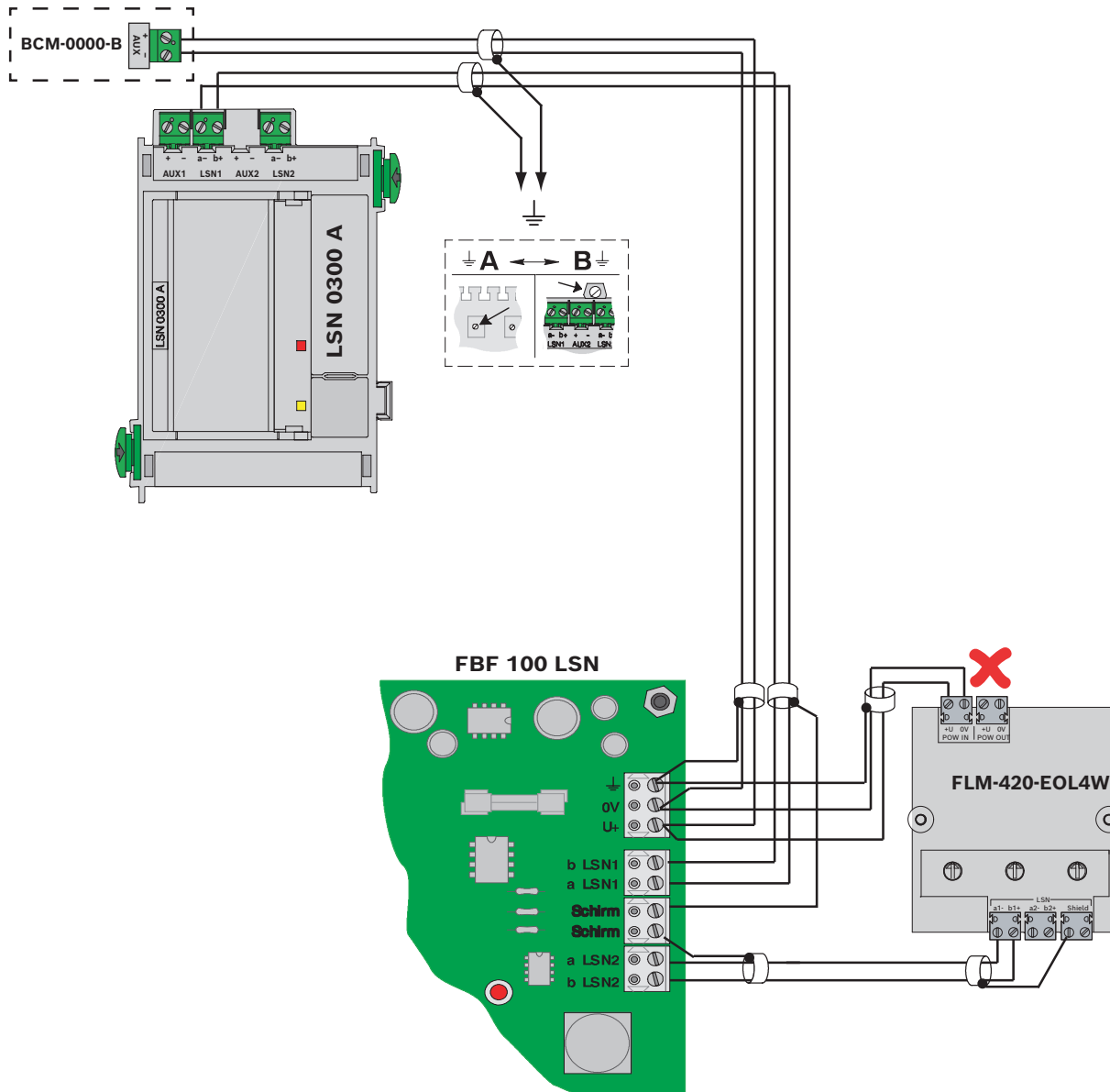




FBF 100 LSN

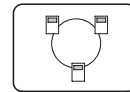


ELS

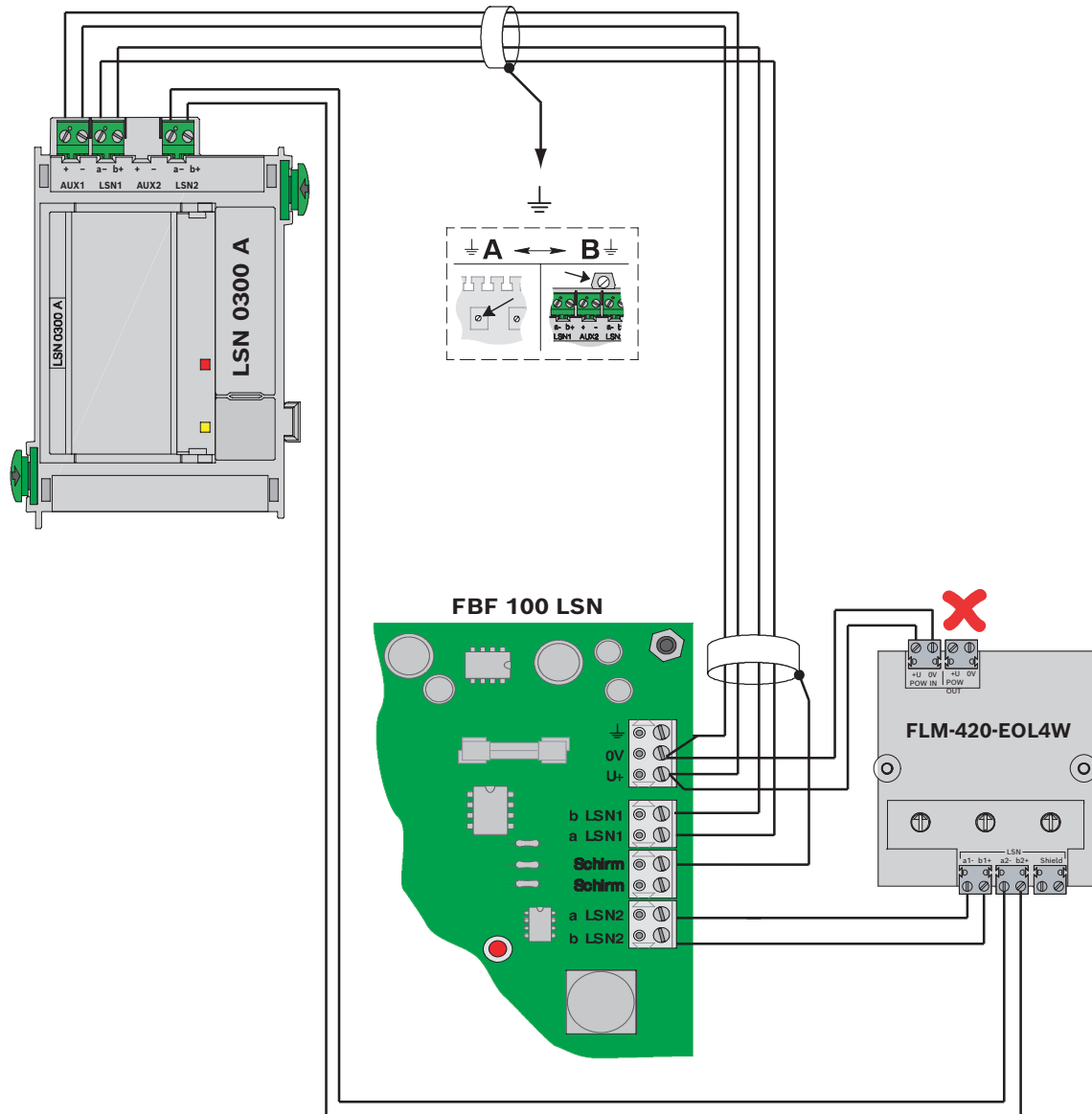




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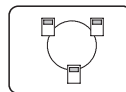


ELS

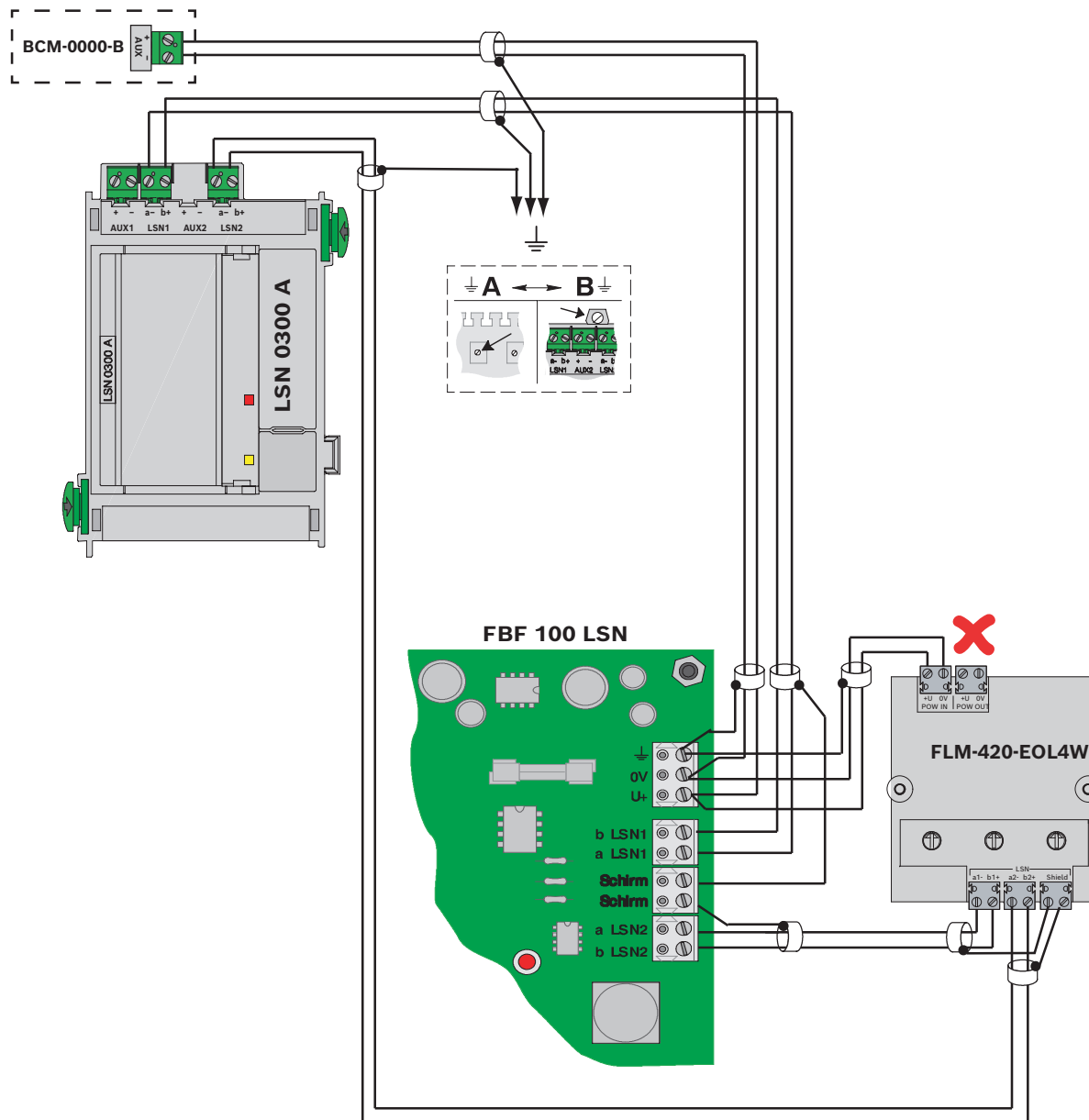


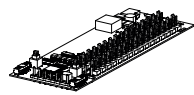


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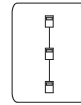


ELS

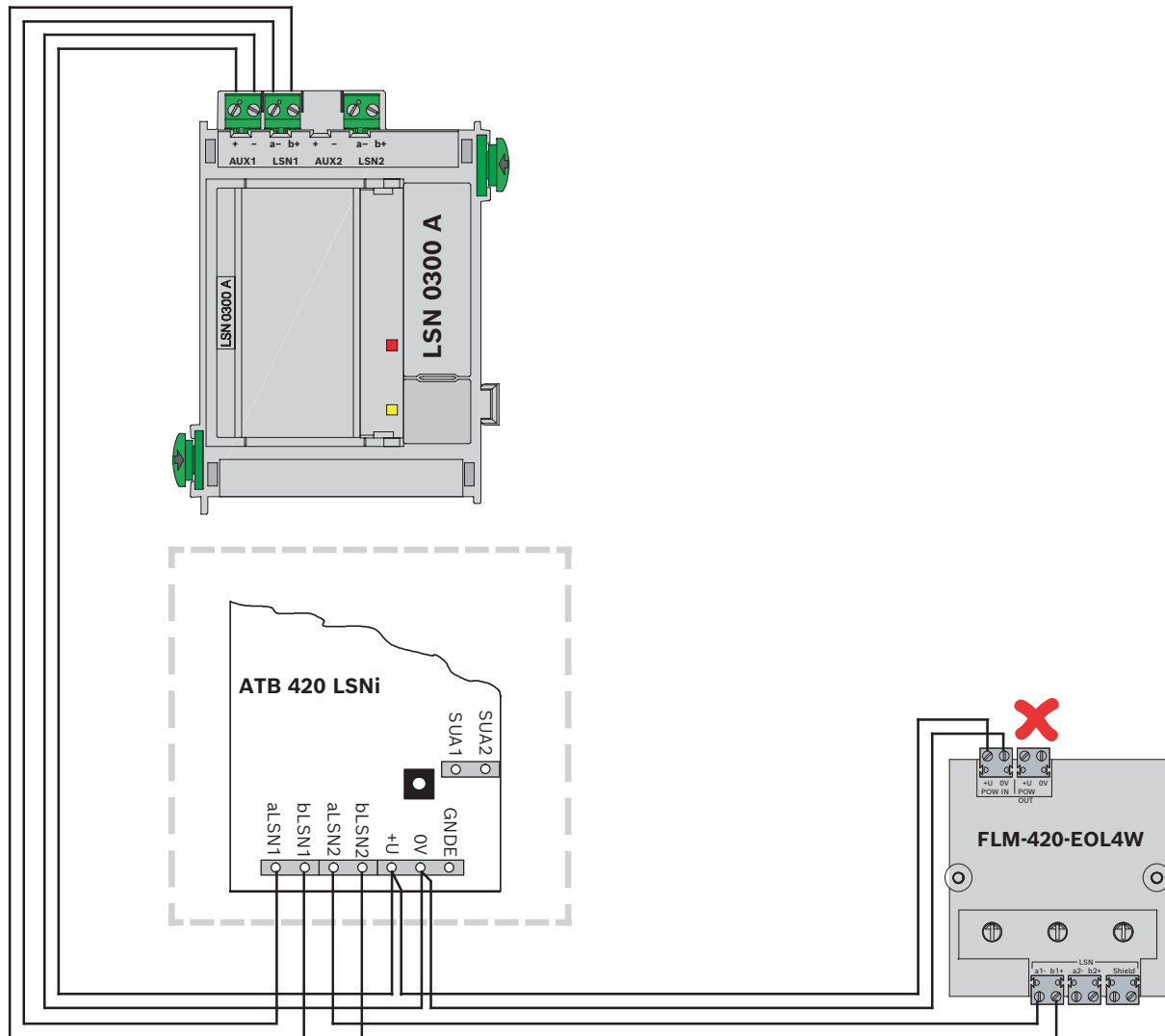


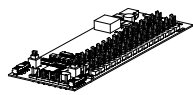


ATB 420 LSNi

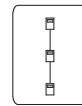


ELS

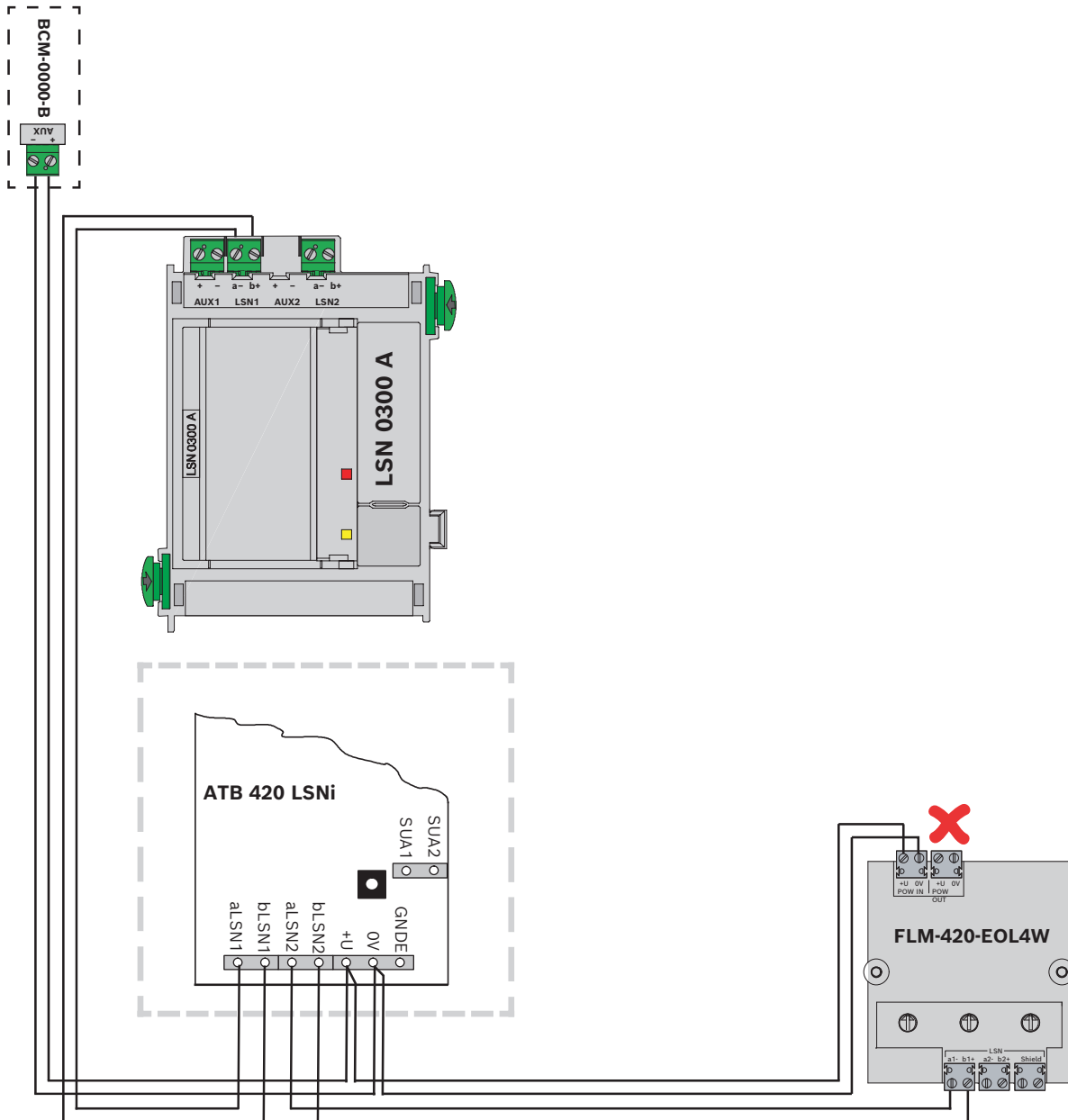


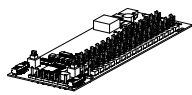


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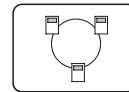


ELS

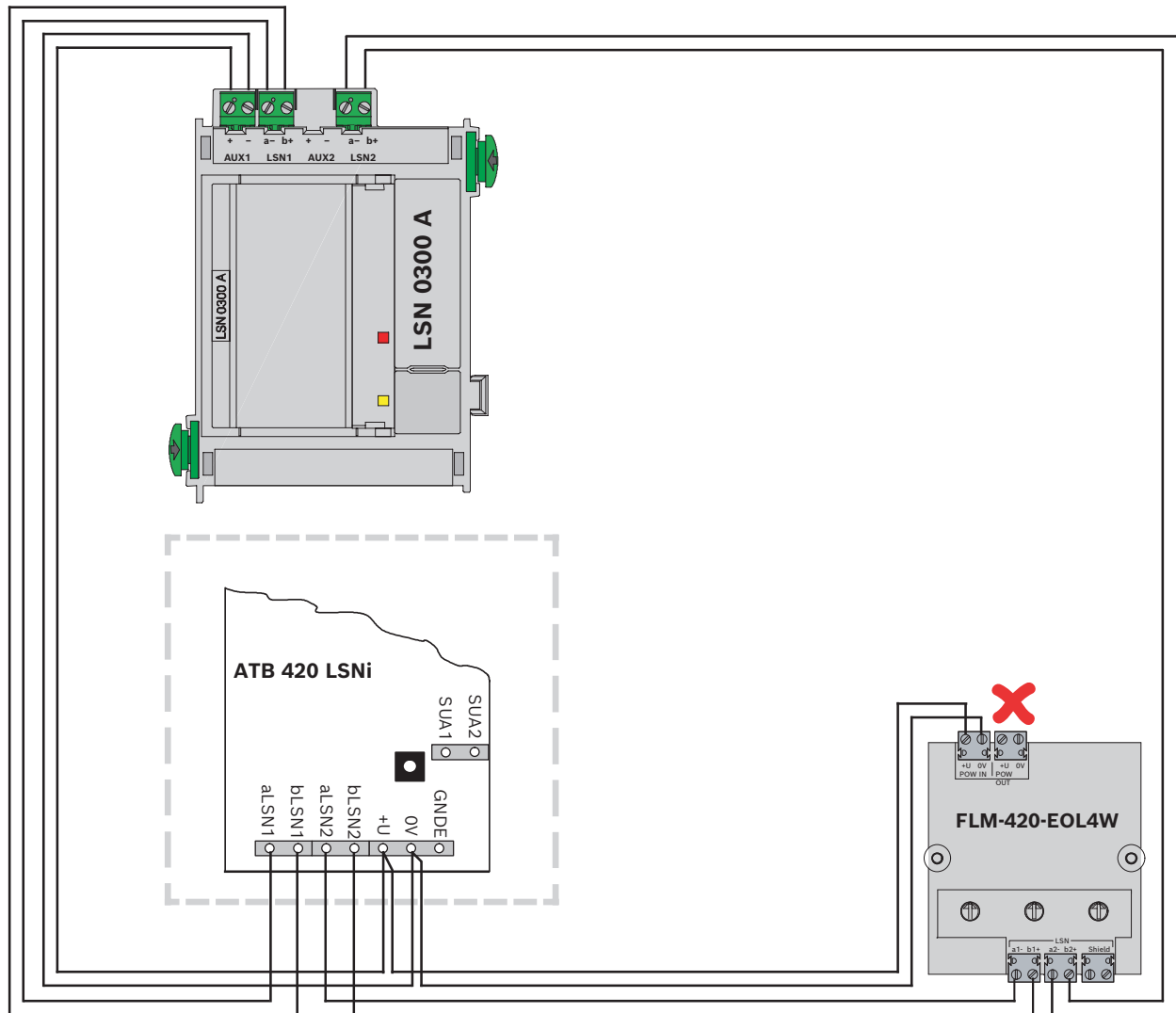


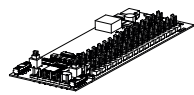


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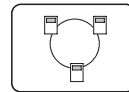


ELS

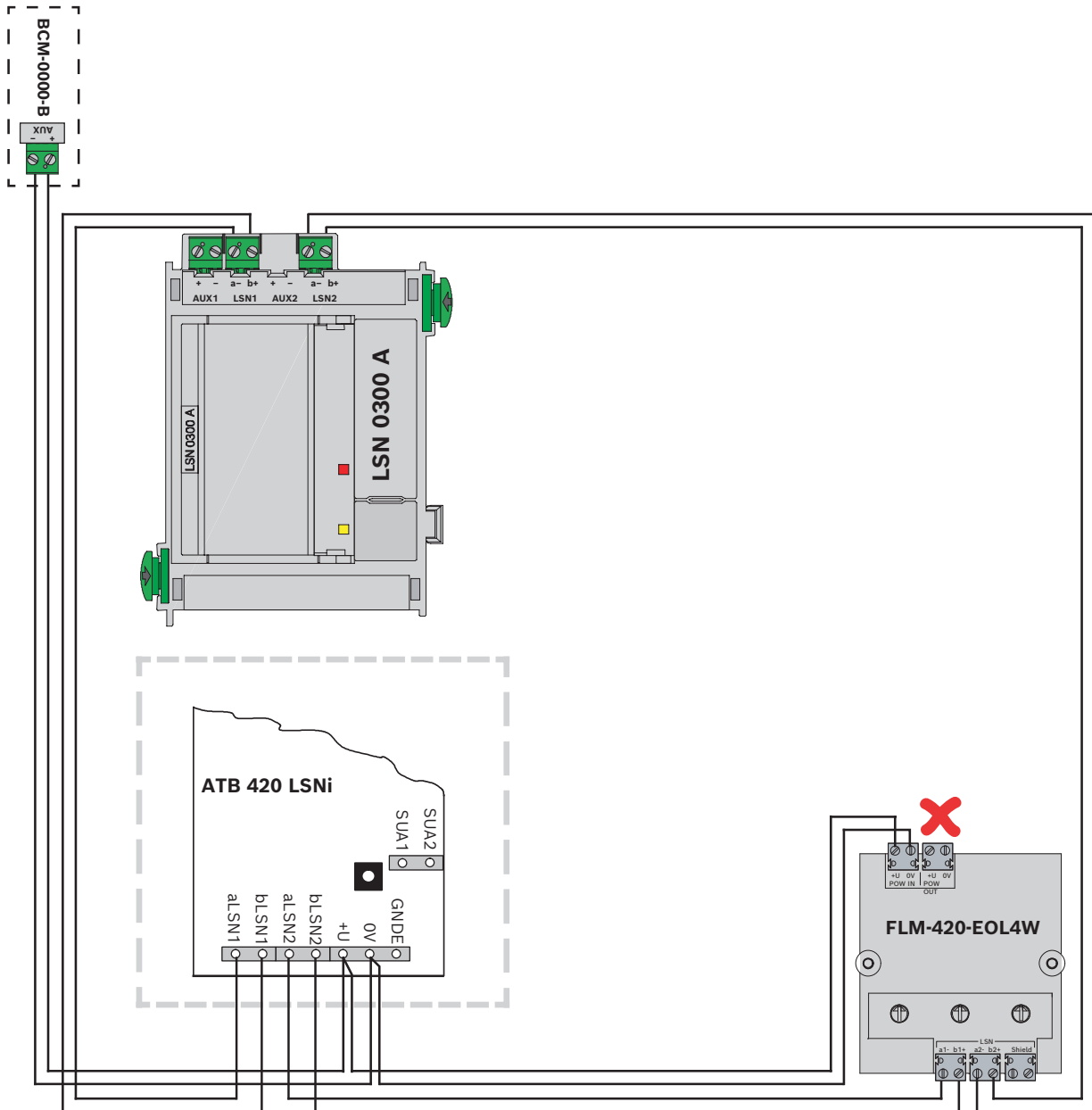




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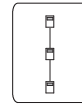


ELS

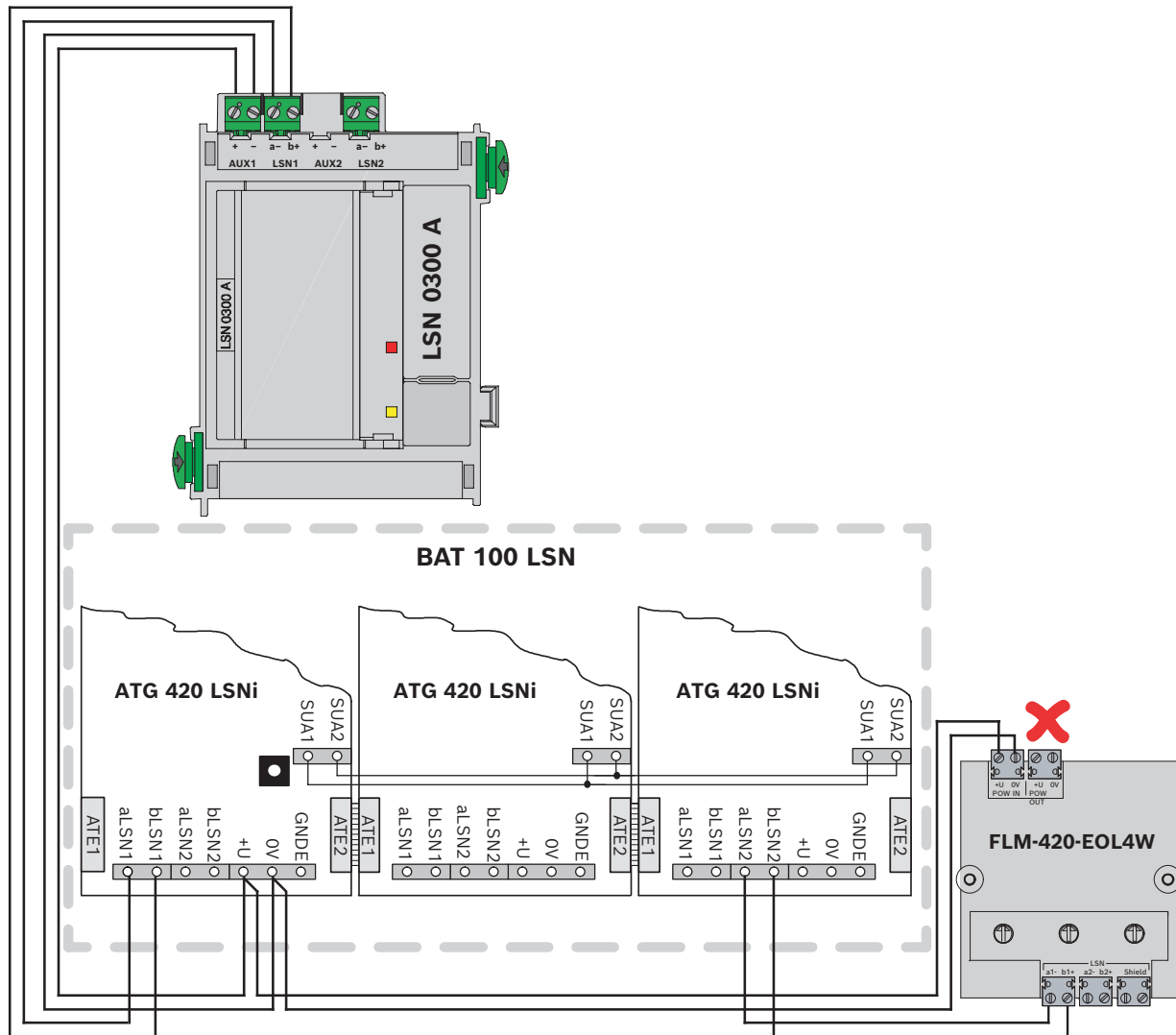




**BAT 100 LSN
ATG 420 LSNi**

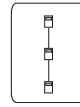


ELS

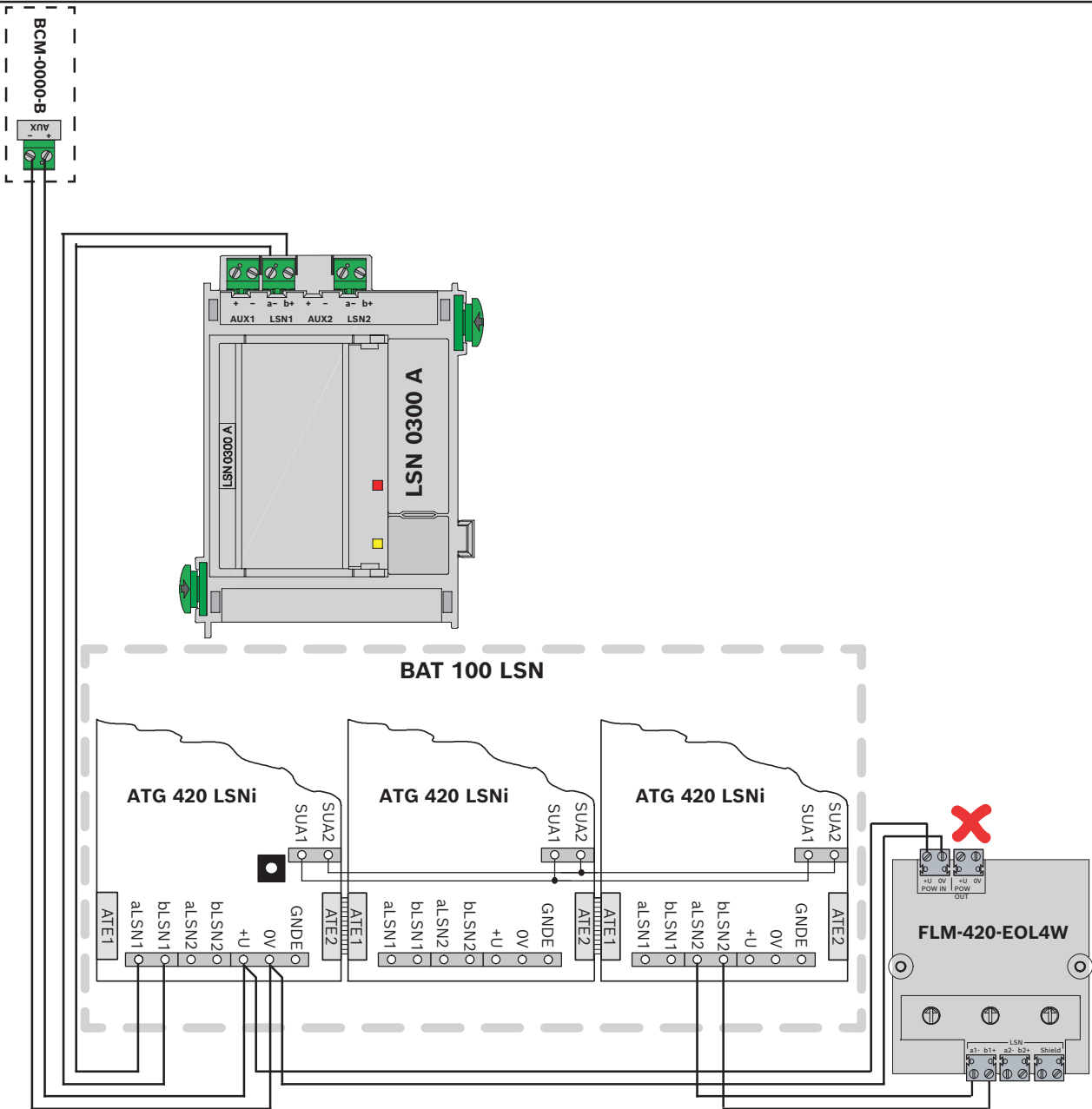




BAT 100 LSN
ATG 420 LSNi

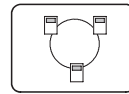


ELS

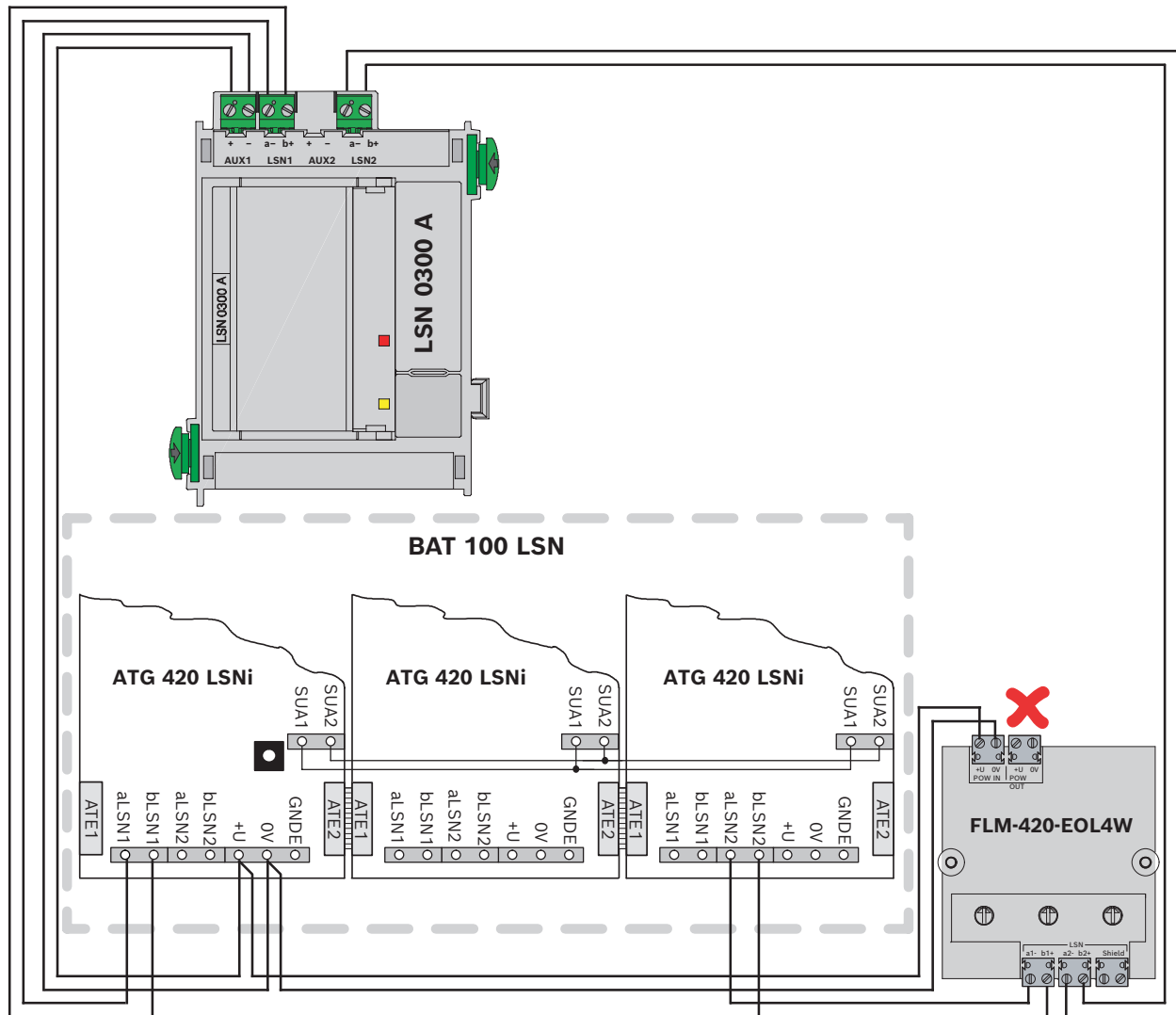




**BAT 100 LSN
ATG 420 LSNi**

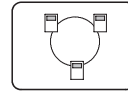


ELS

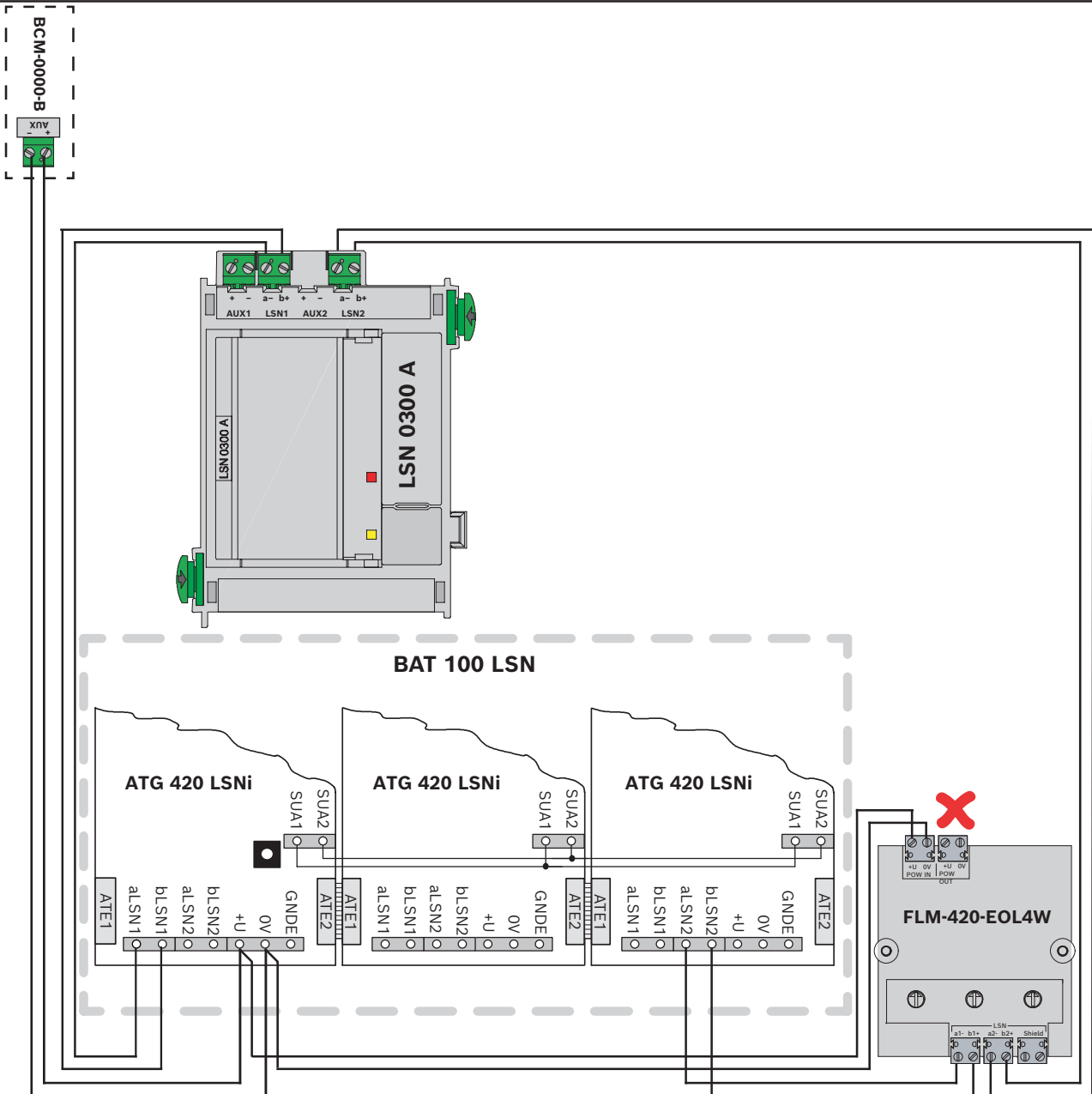




BAT 100 LSN
ATG 420 LSNi



ELS

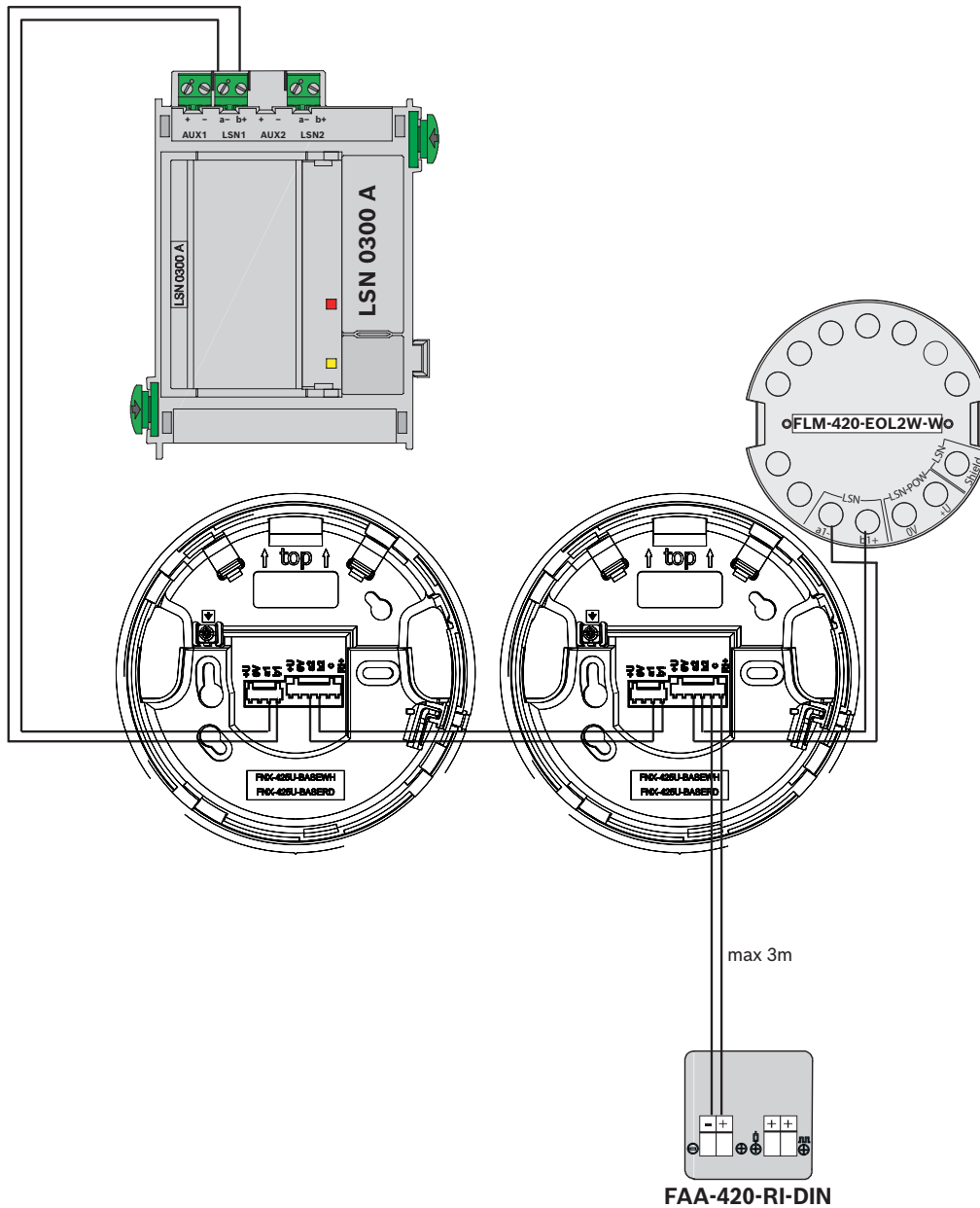




FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD



ELS





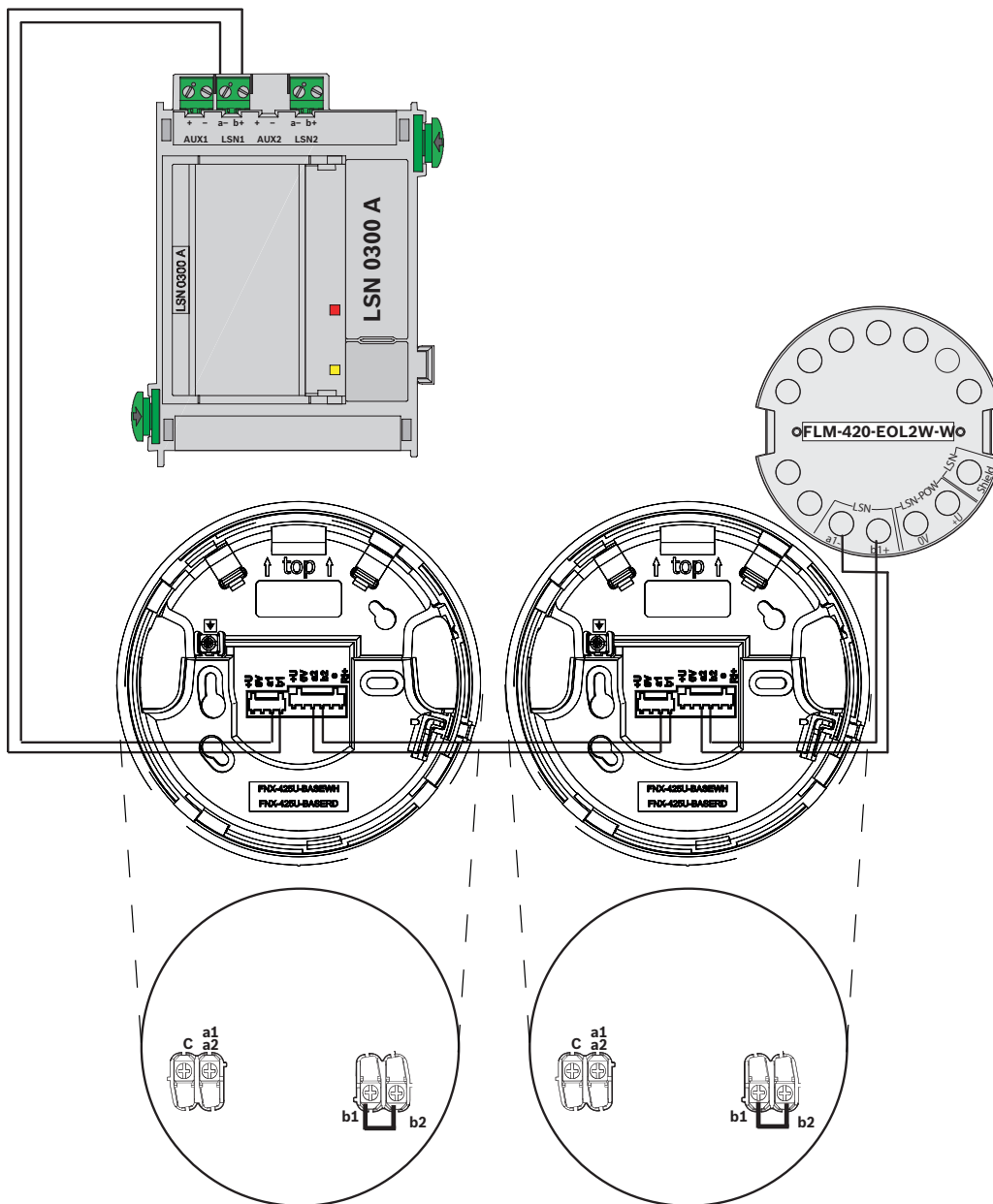
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 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

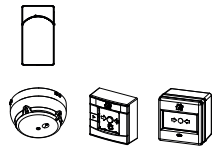
+

FNX-425U-COVWH
 FNX-425U-COVRD



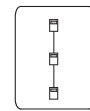
ELS



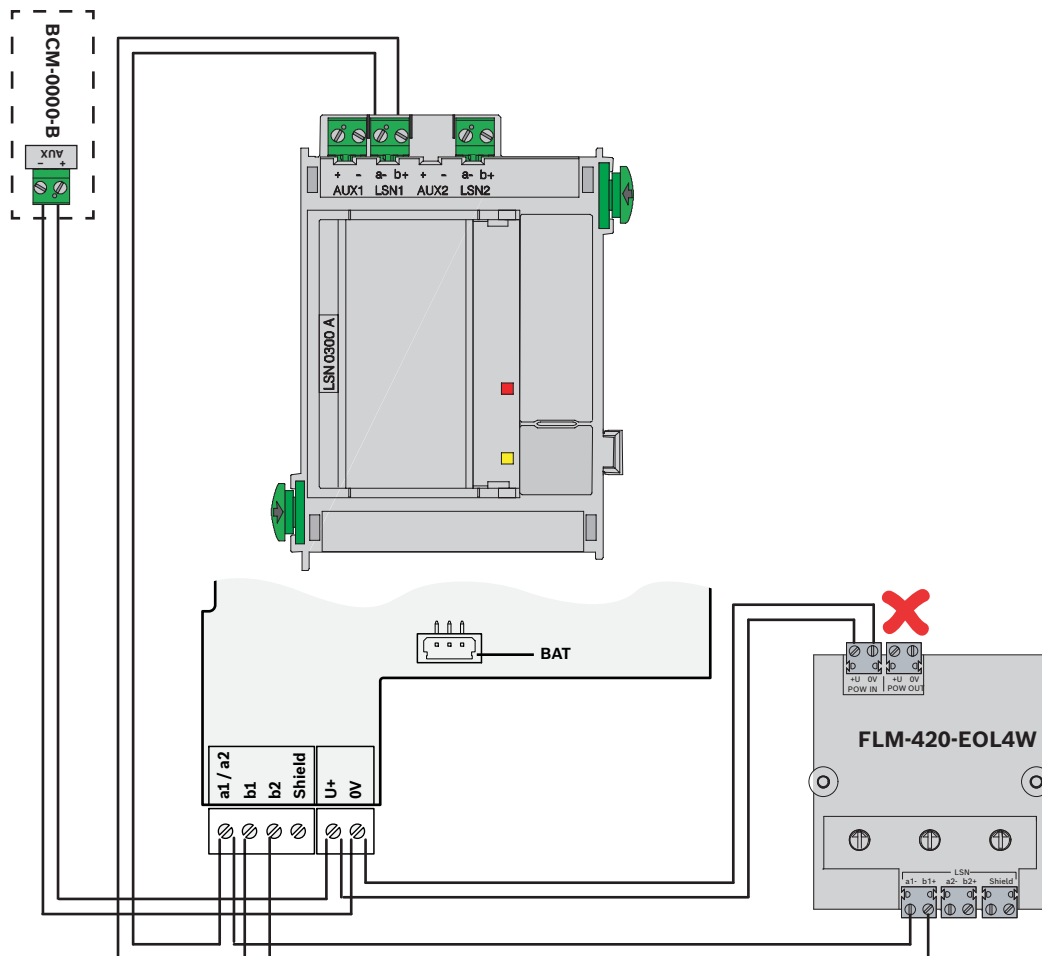


FWI-270

FDOOT271-O
FDM275-O
FDM273-O



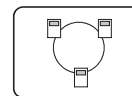
ELS



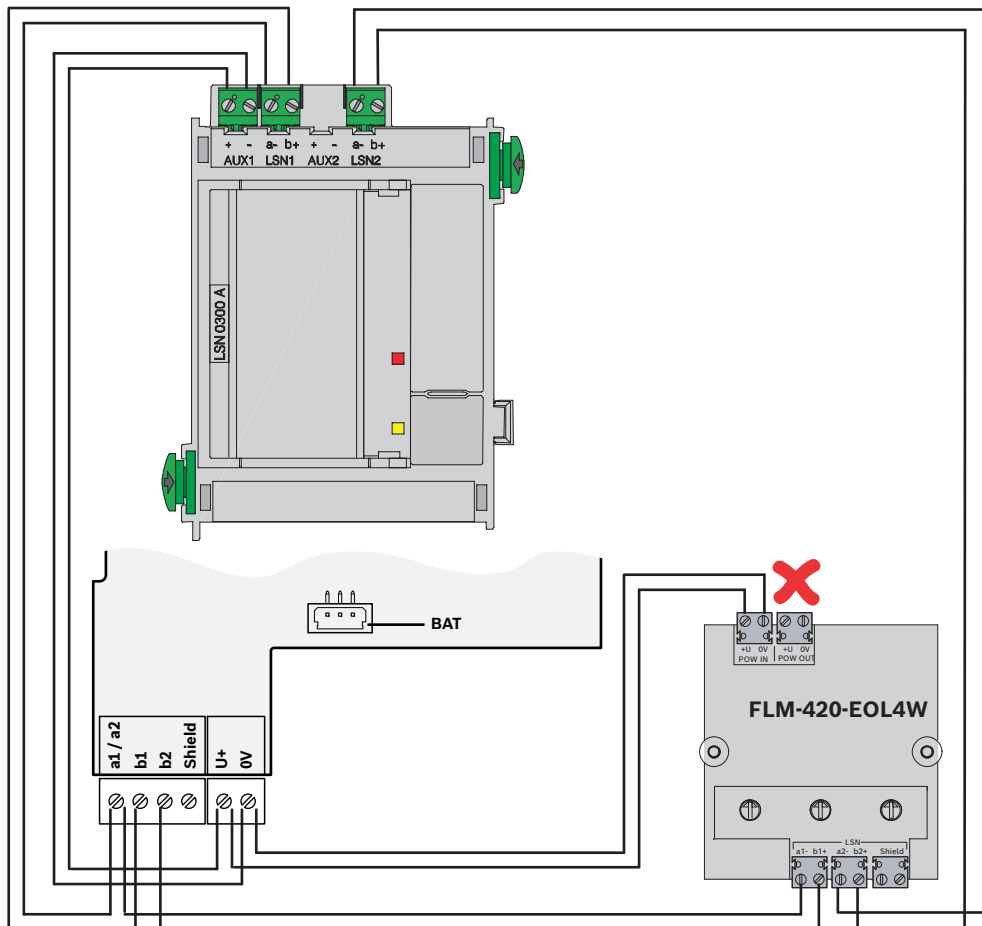


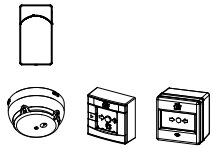
FWI-270

FDOOT271-O
FDM275-O
FDM273-O



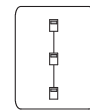
ELS



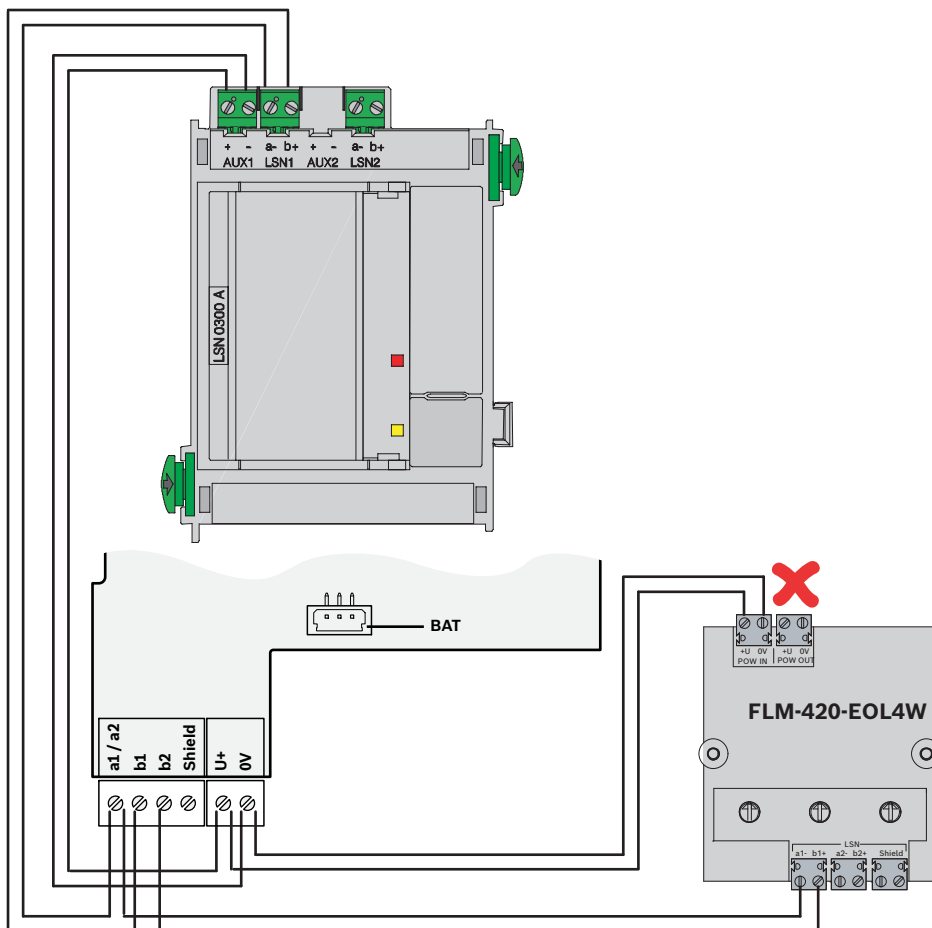


FWI-270

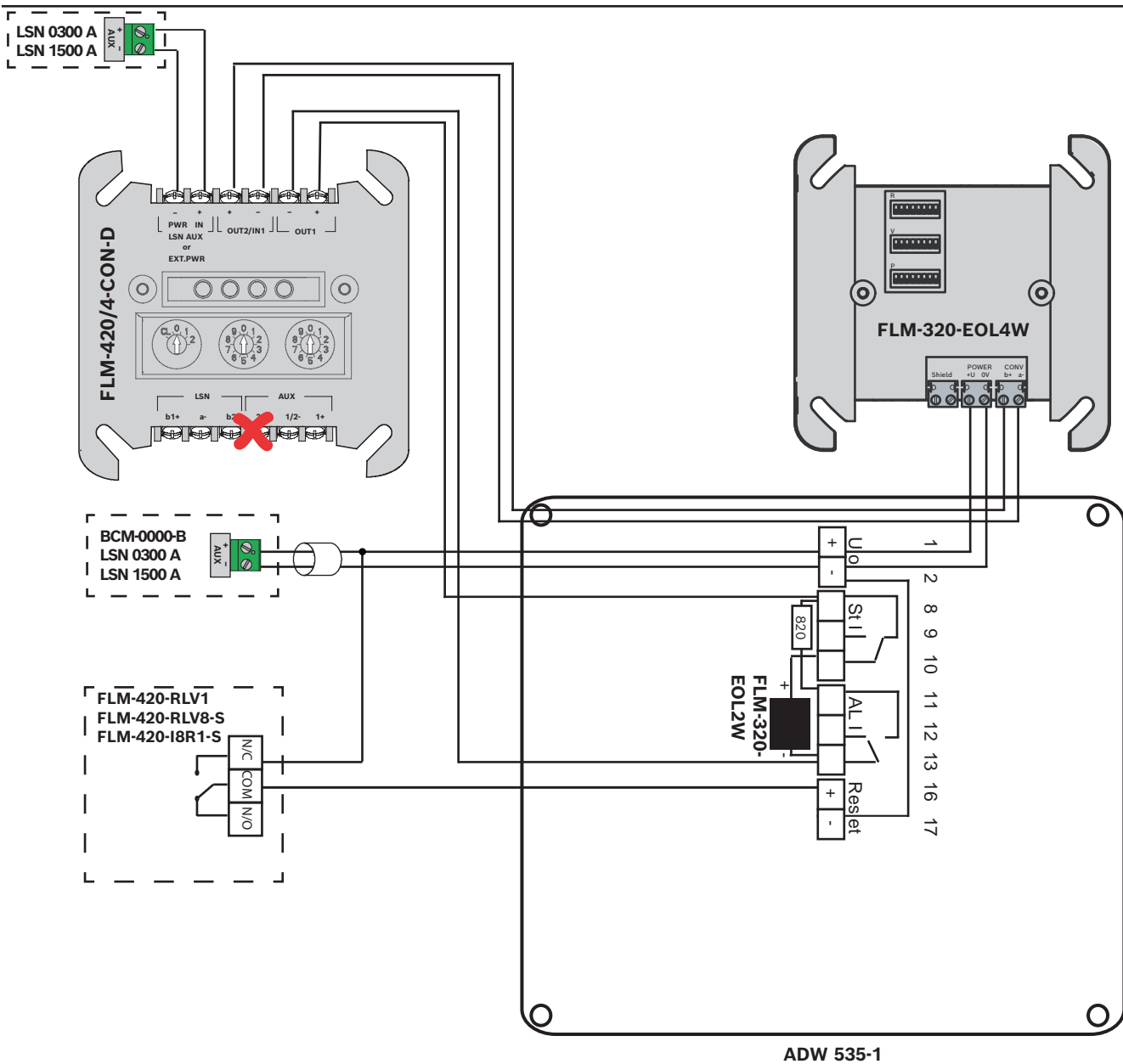
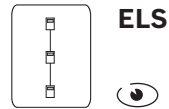
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FDM275-O
FDM273-O

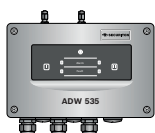


ELS

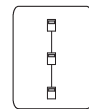


2.6.3 FLM-420/4-CON-S/D

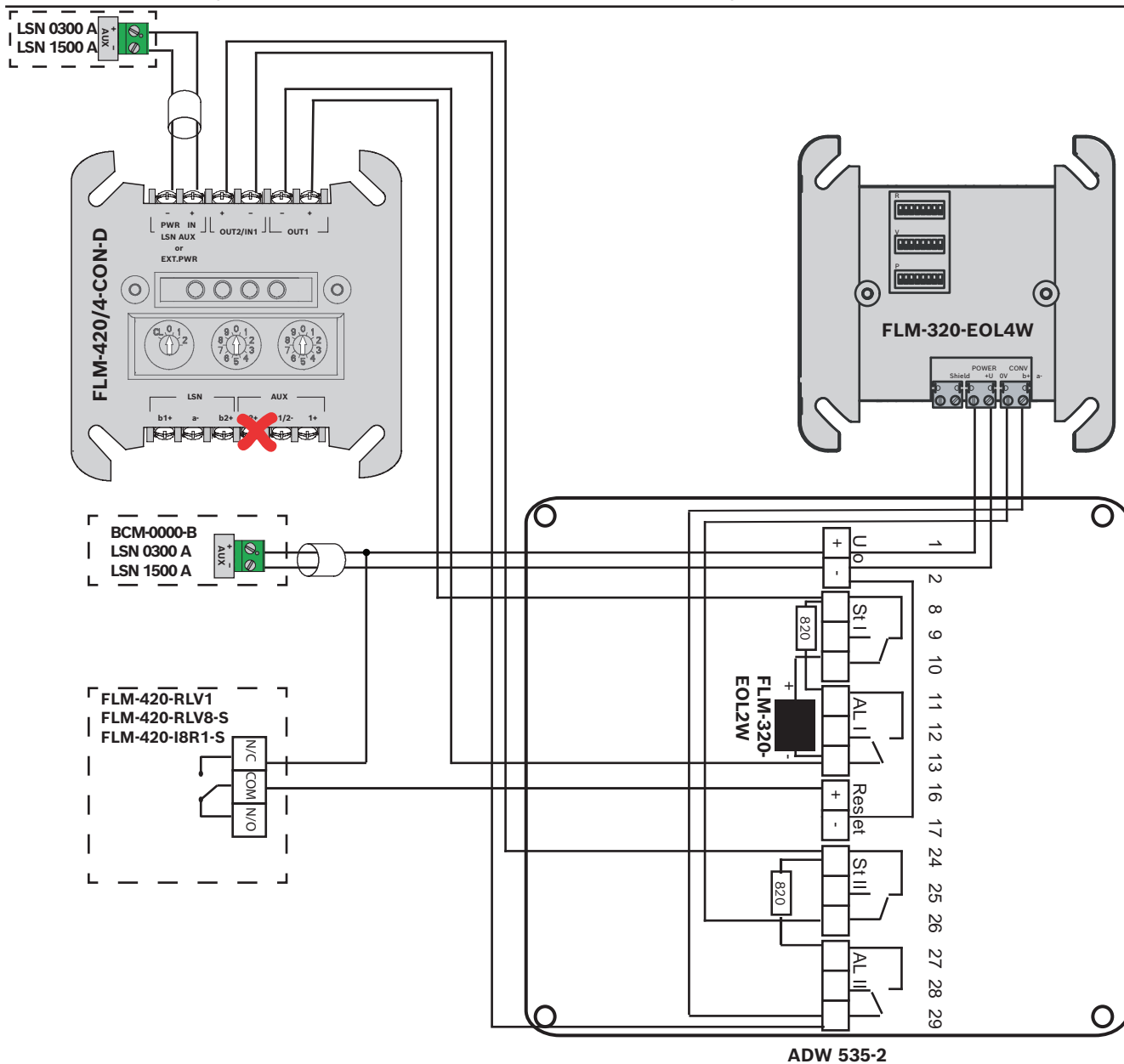


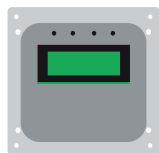


ADW 535-2



ELS

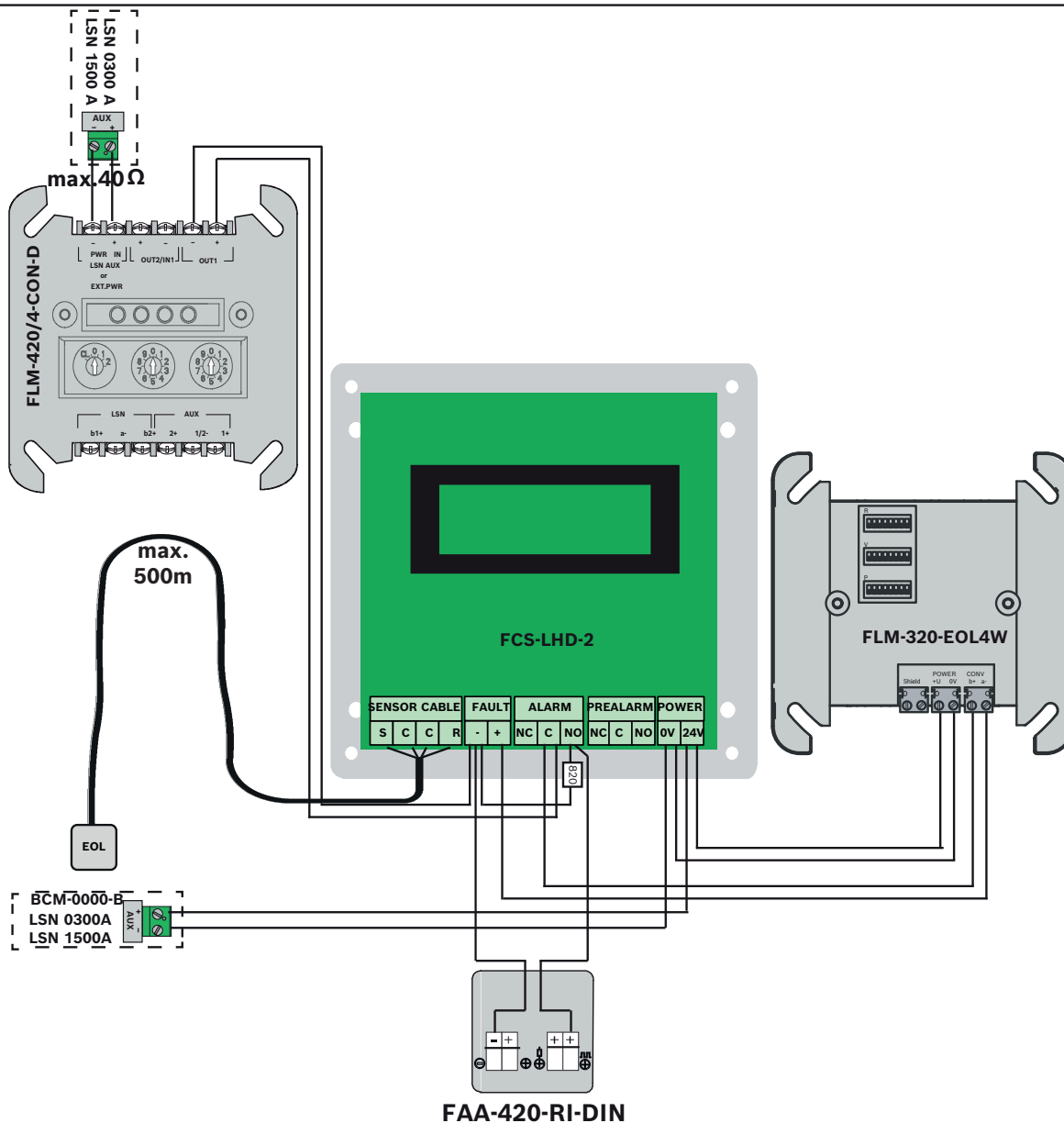




ALARMLINE II

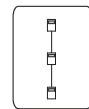


ELS

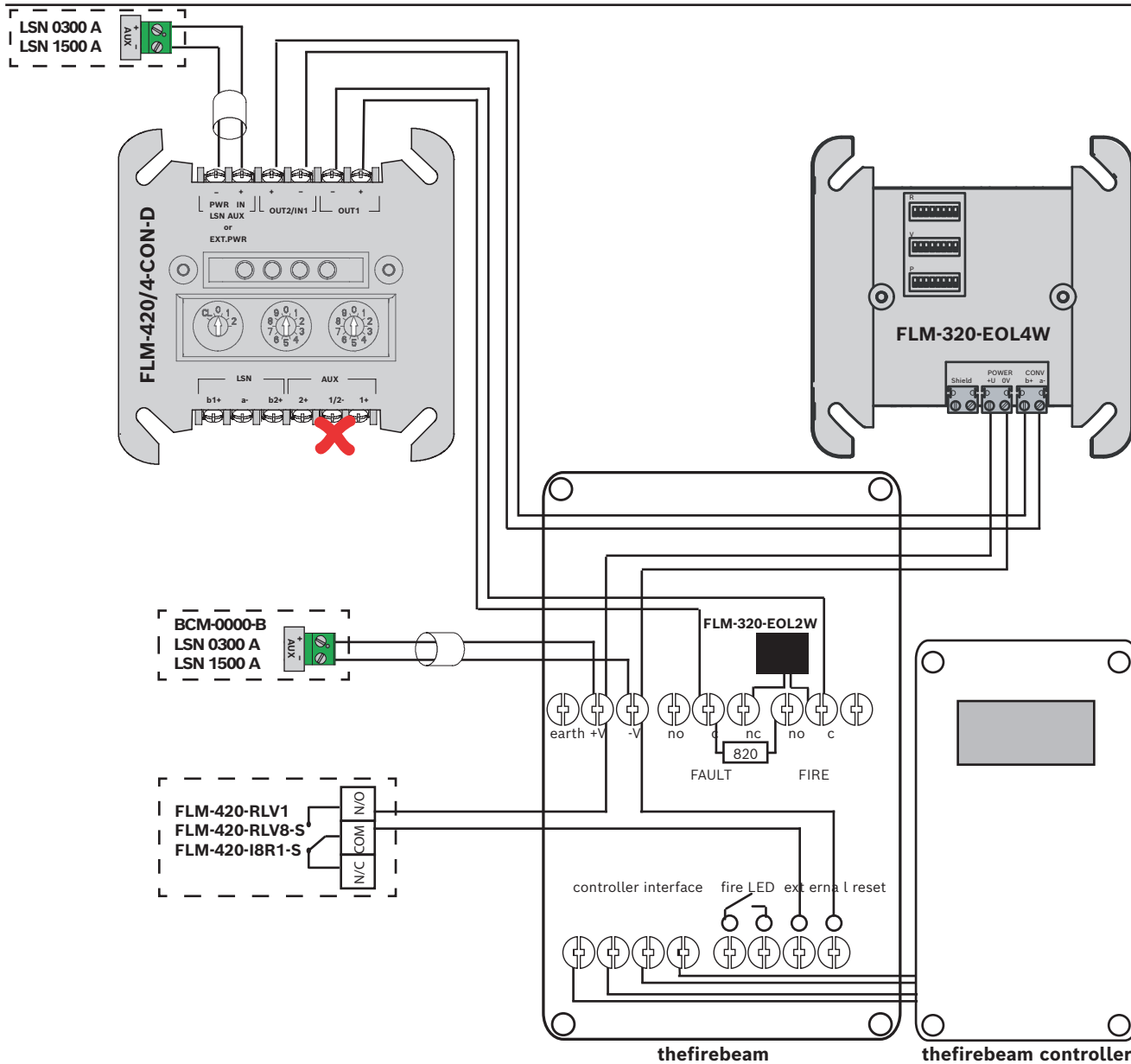


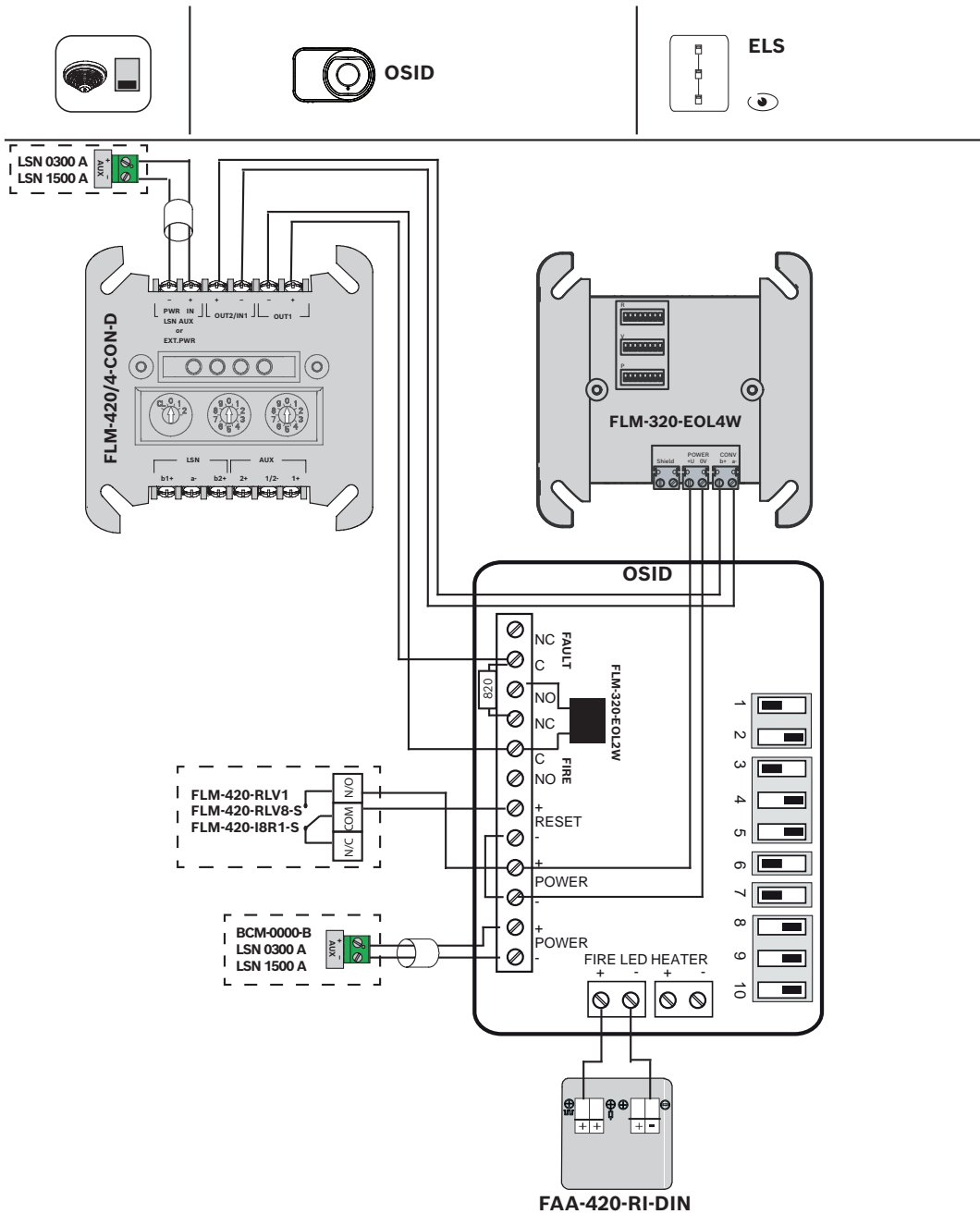


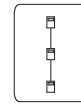
thefirebeam nano
thefirebeam standard
thefirebeam foveo



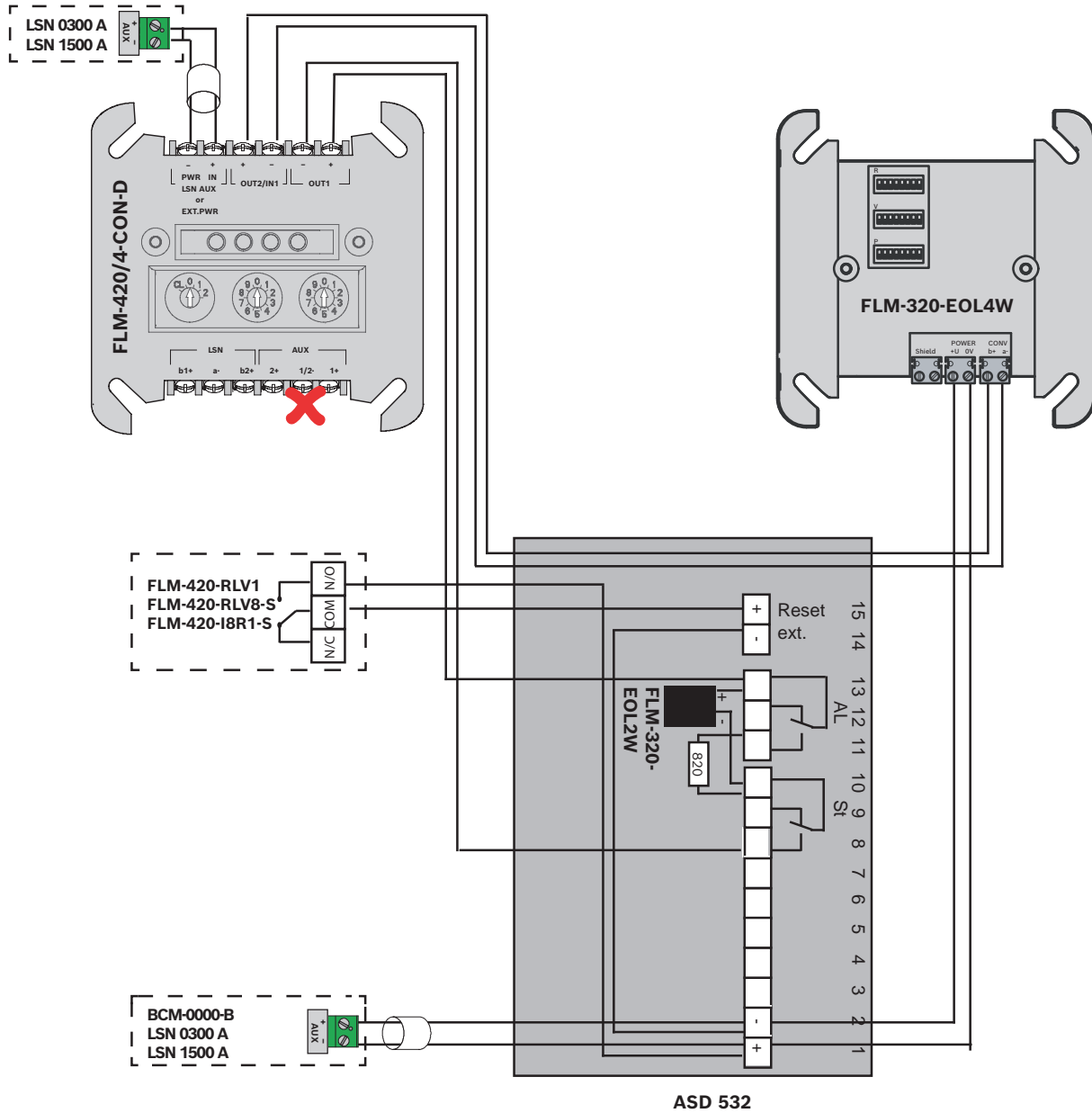
ELS

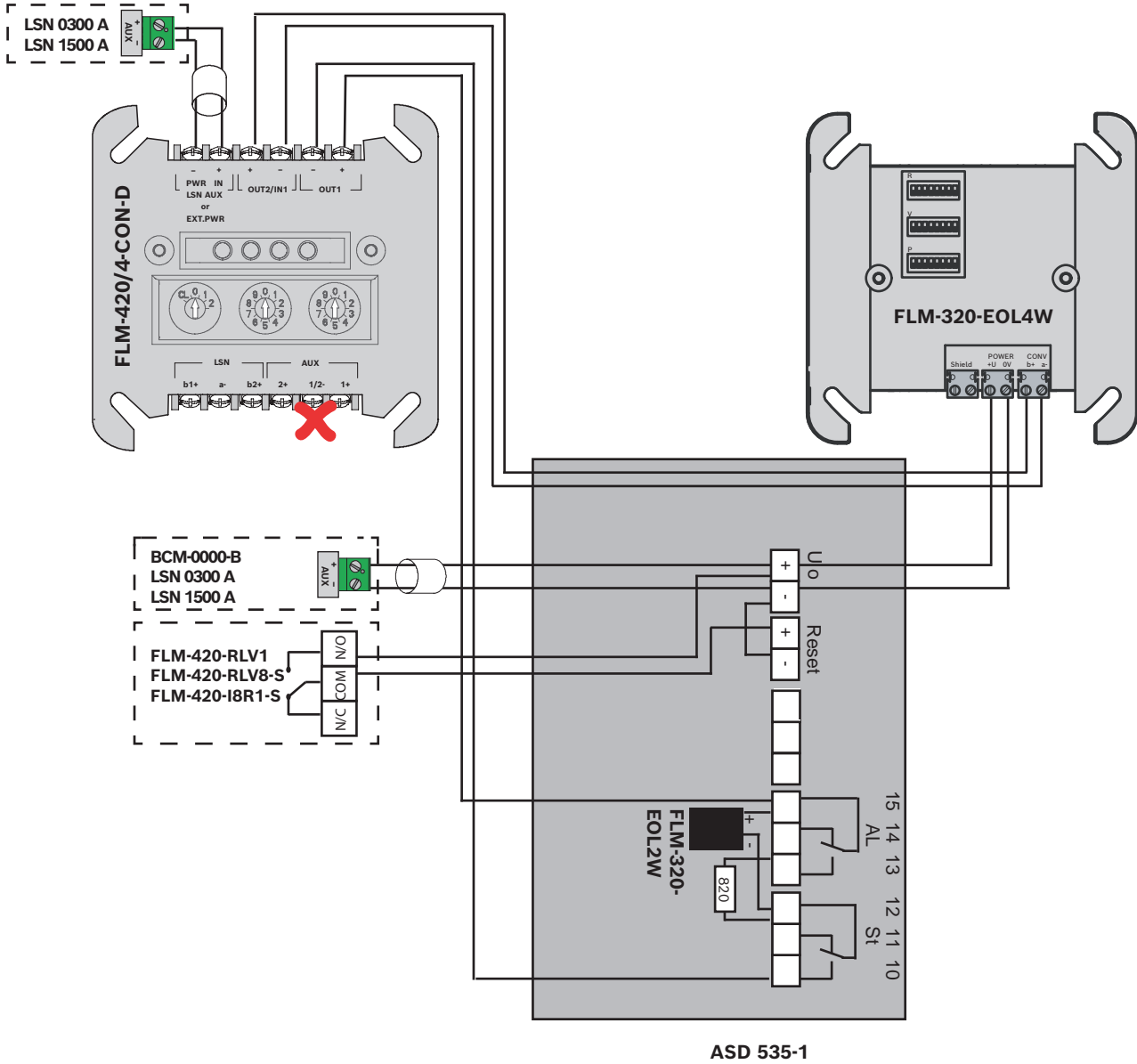
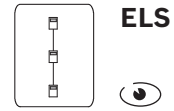


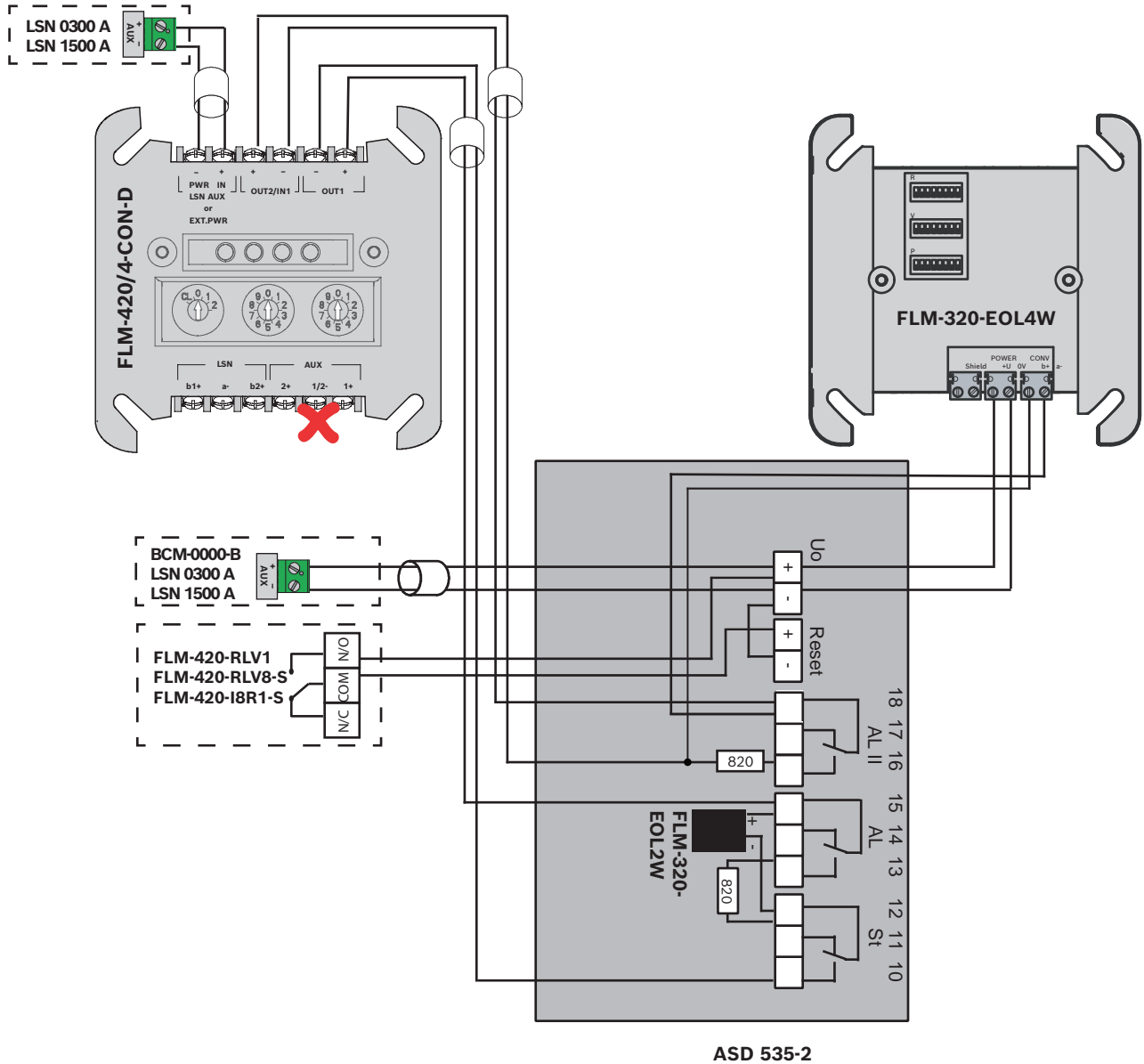
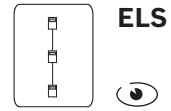




ELS

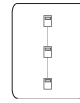






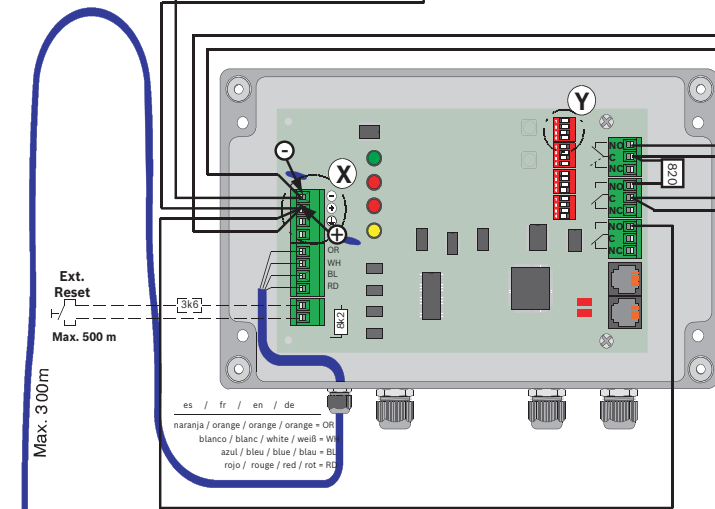
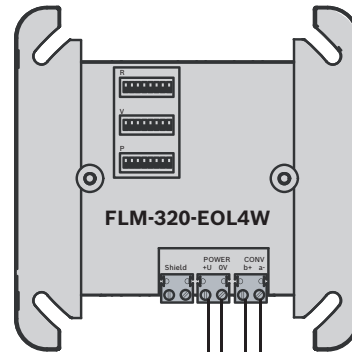
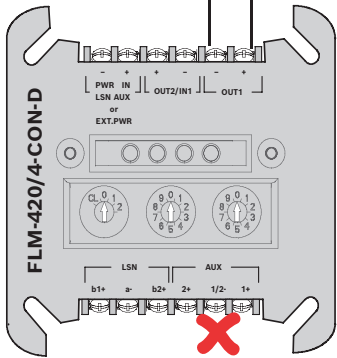


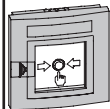
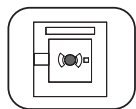
FCS-LWM-1



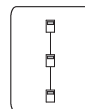
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

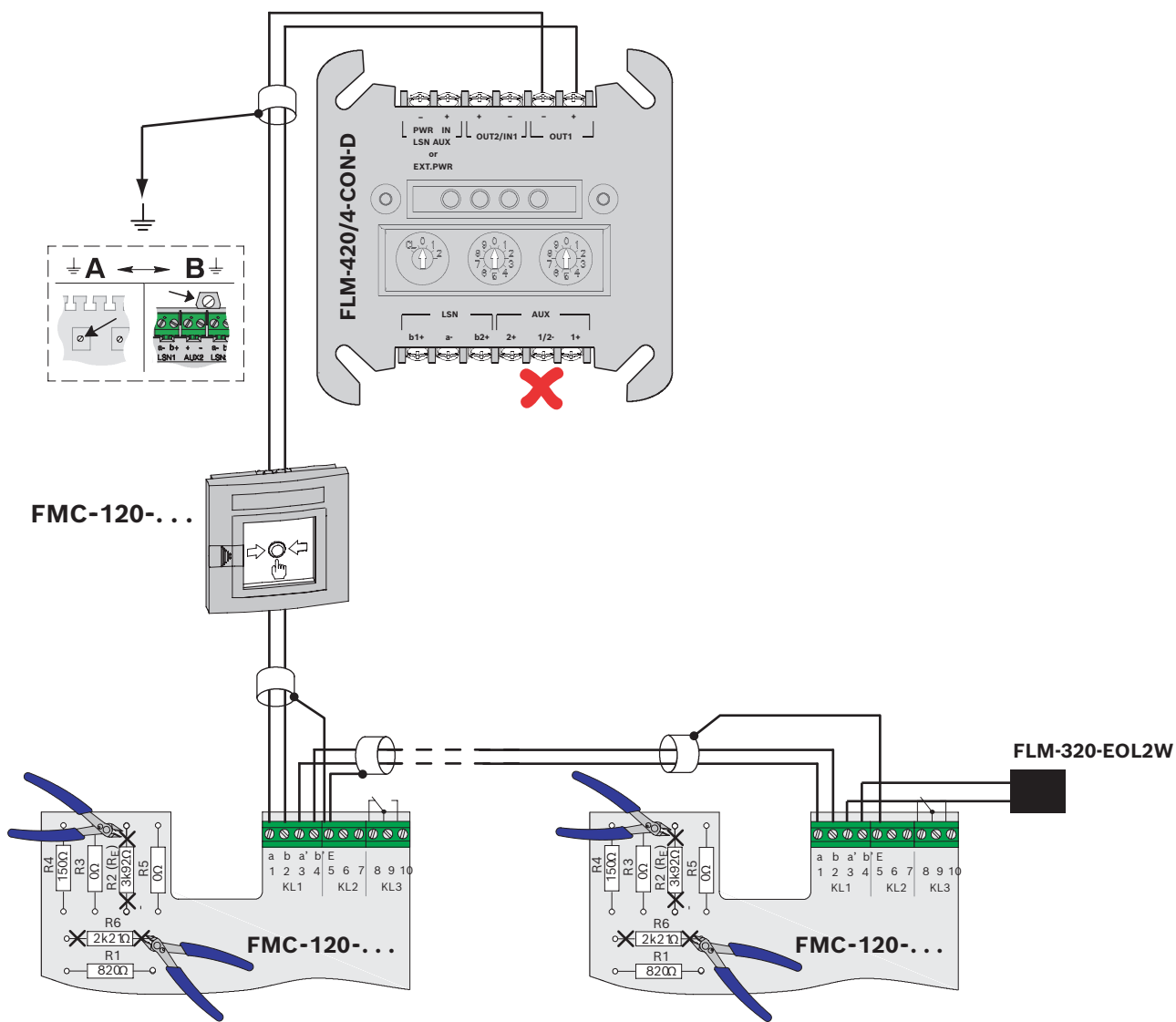


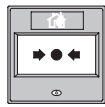
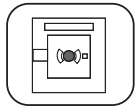


FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B

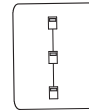


ELS

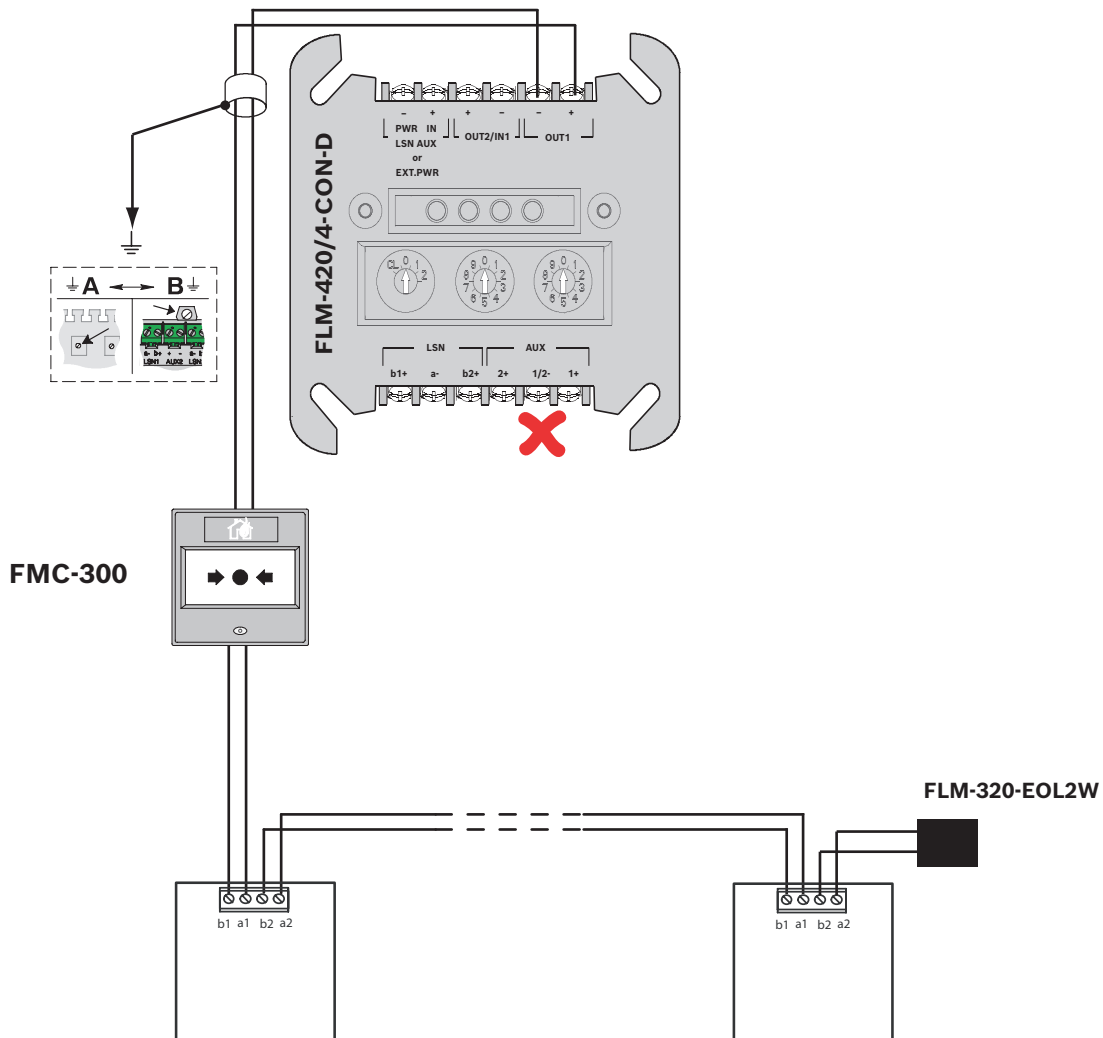


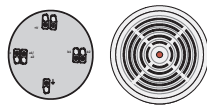


FMC-300



ELS

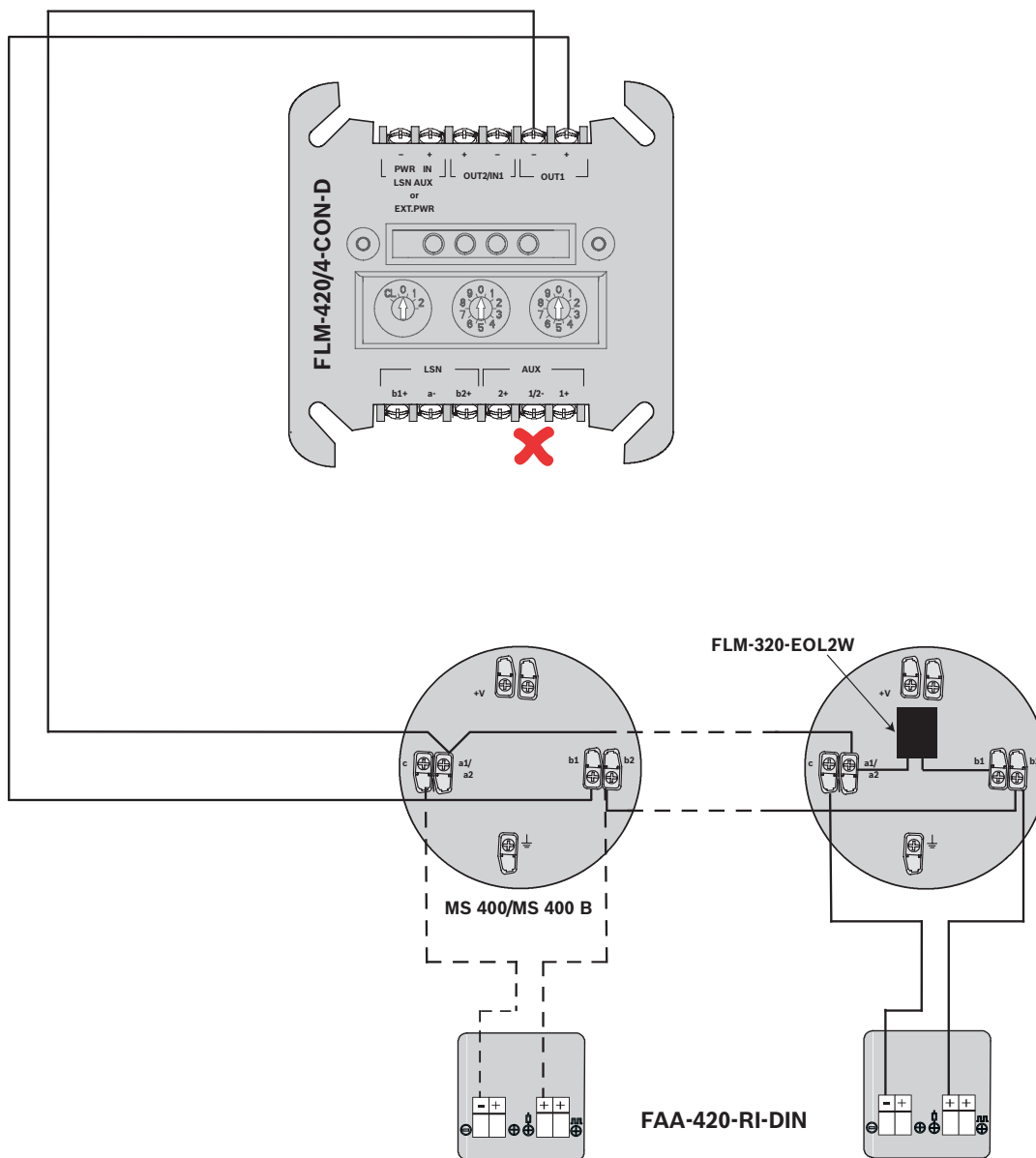




MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



ELS

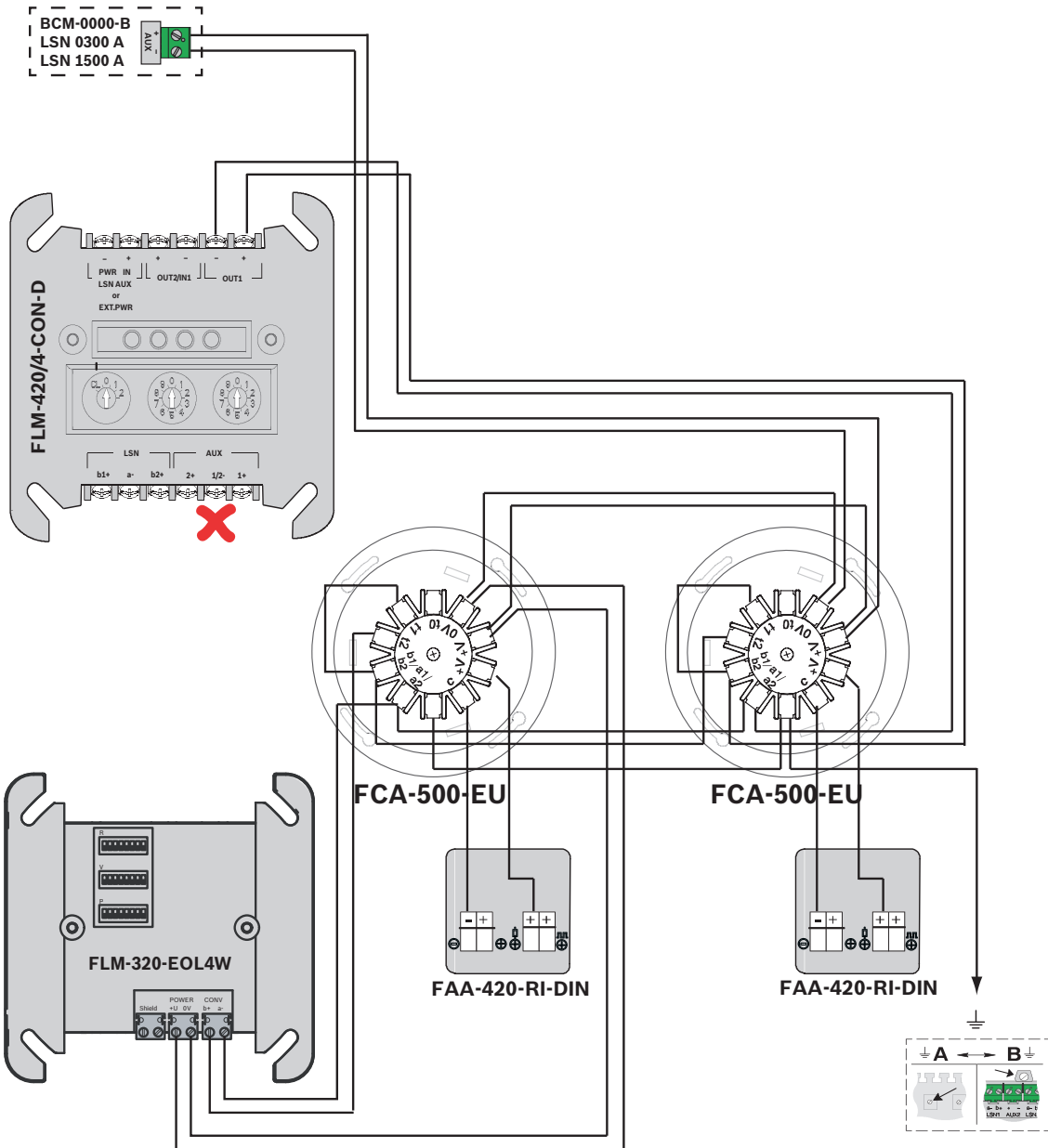


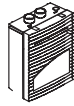


FCP-500

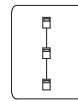


ELS

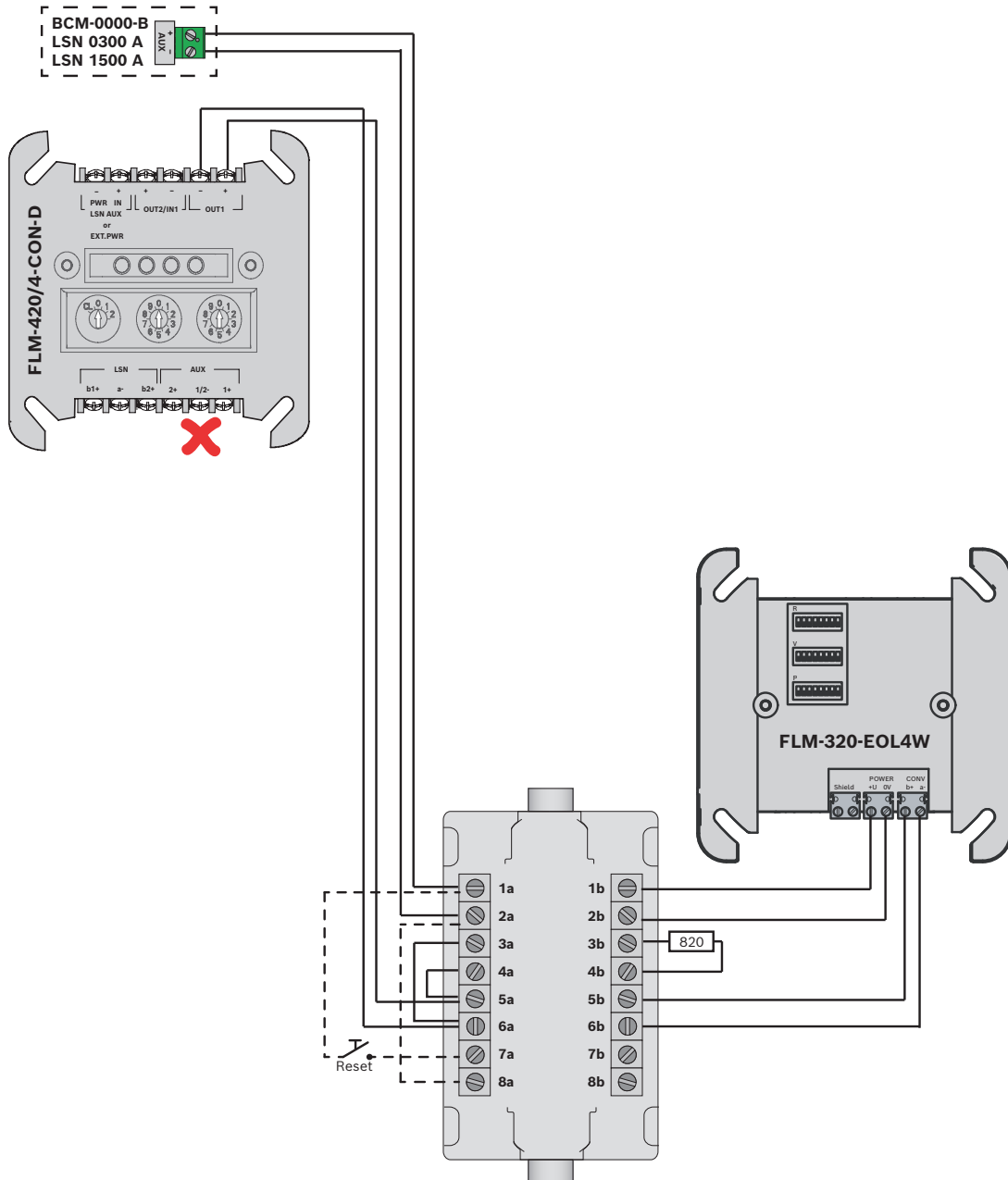


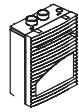


FCS-320-TM Series

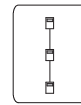


ELS



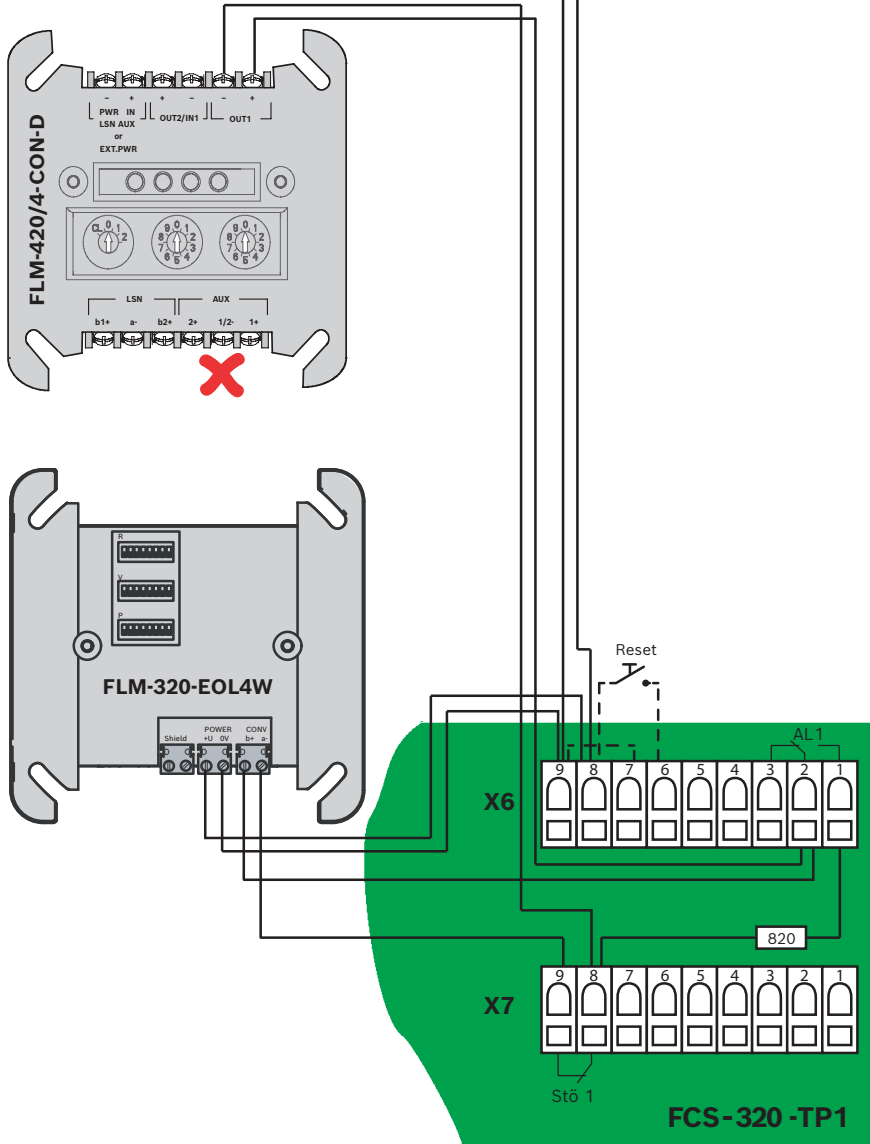


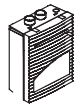
FCS-320-TP Series



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



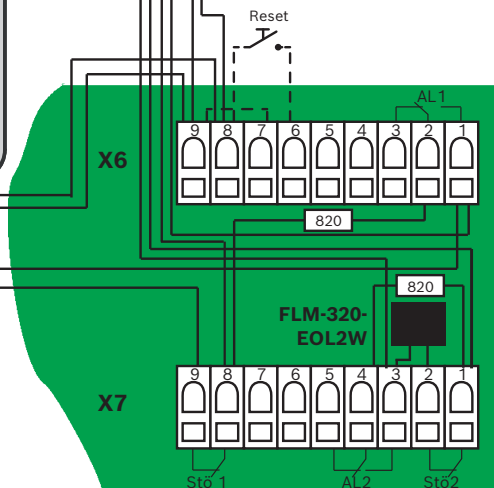
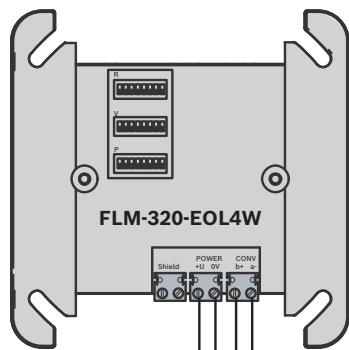
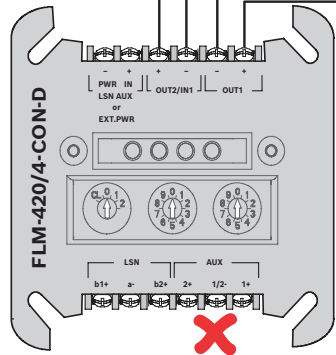


FCS-320-TP Series

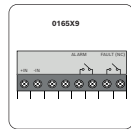


ELS

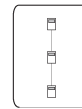
BCM-0000-B
LSN 0300 A
LSN 1500 A



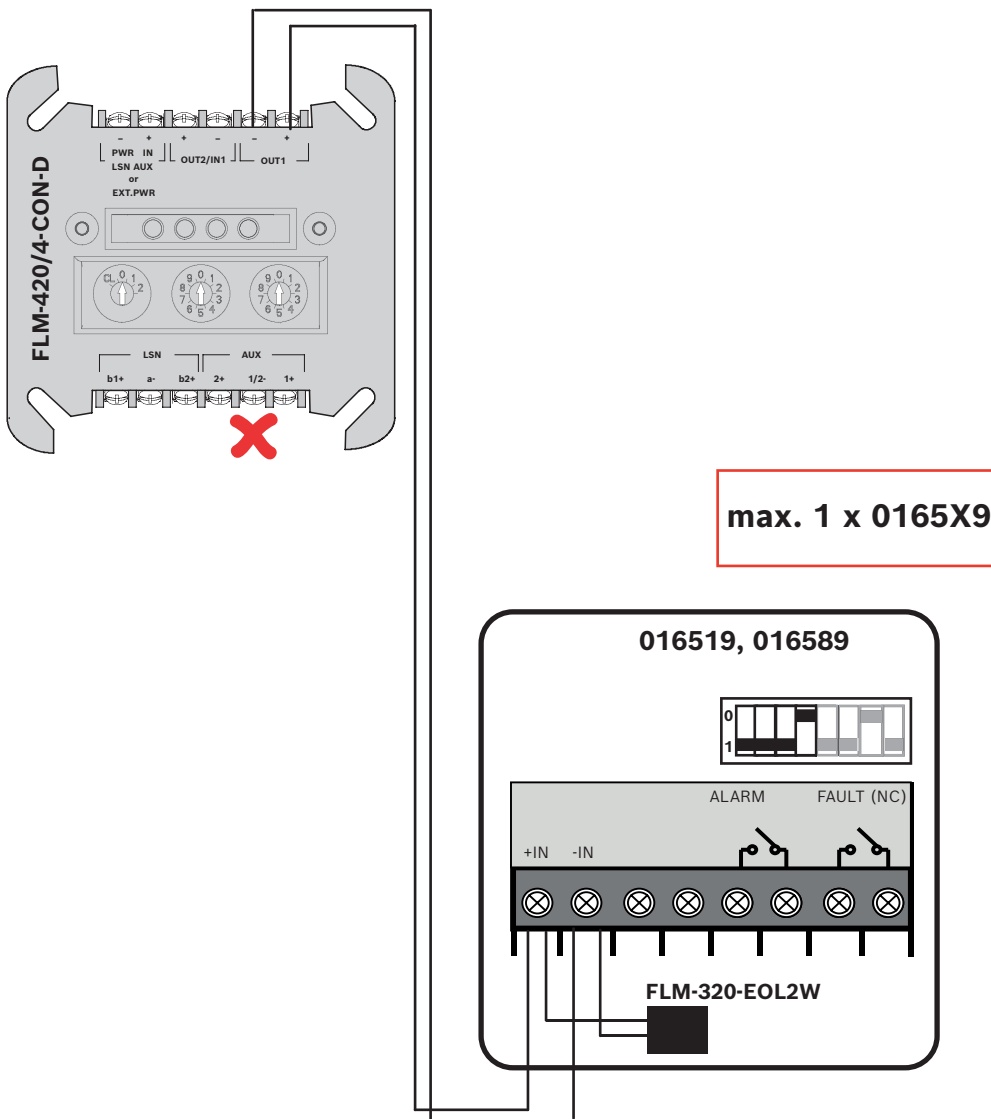
FCS-320-TP2

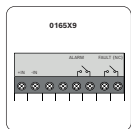


016519, 016589
IR3 Flame Detector

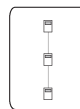


ELS

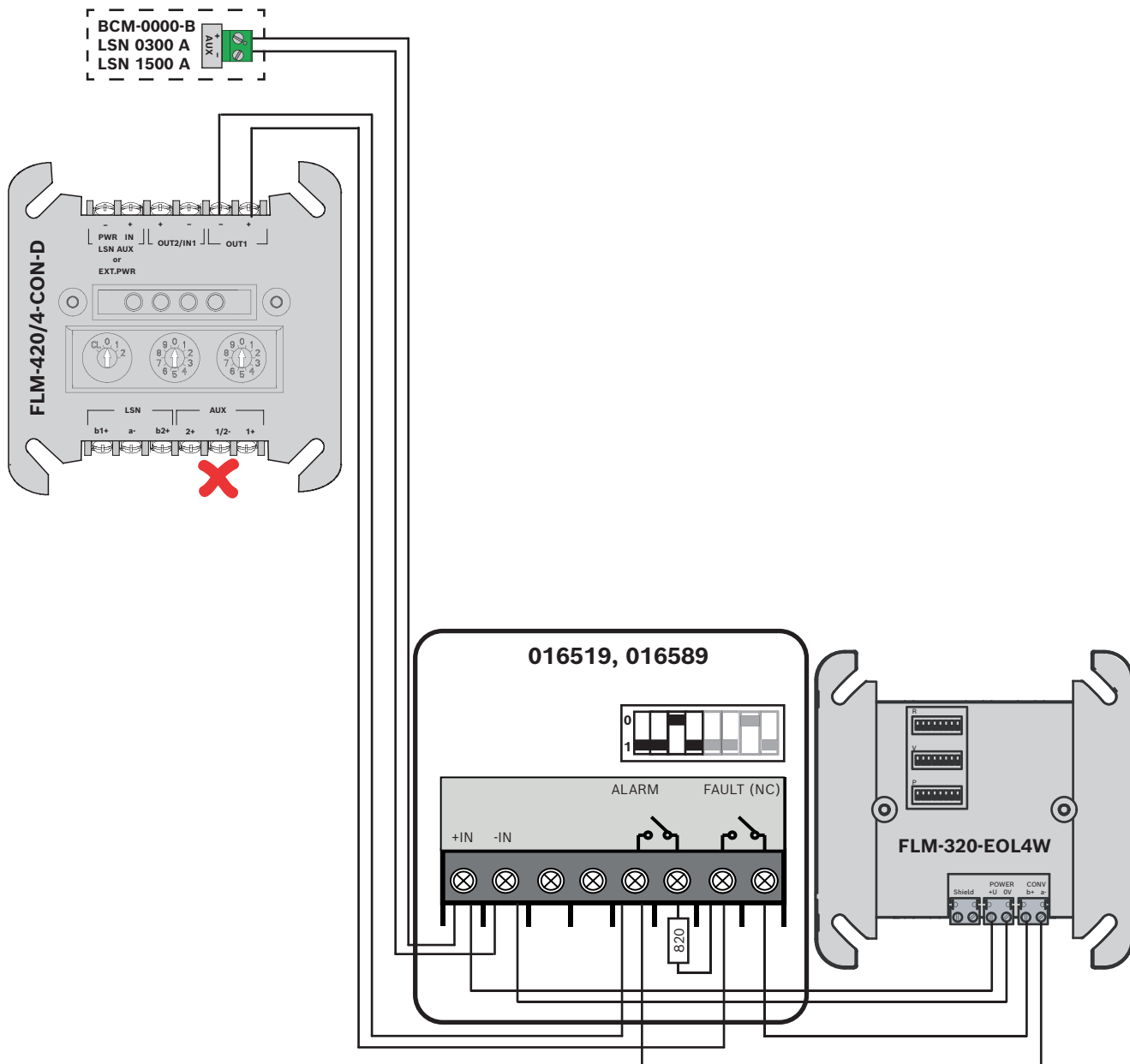




016519, 016589
IR3 Flame Detector

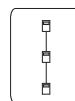


ELS

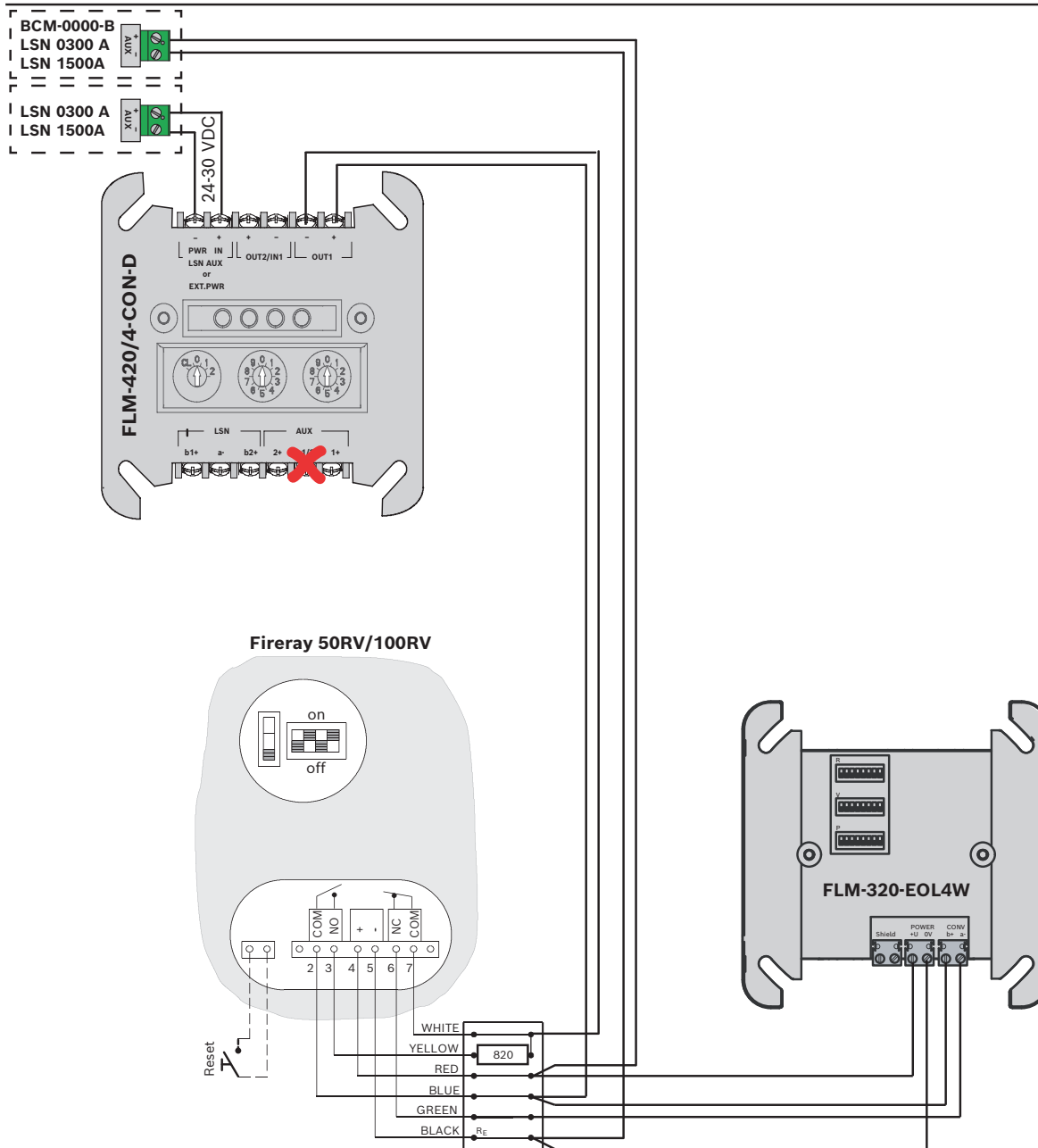




**Fireray 50RV
Fireray 100RV**



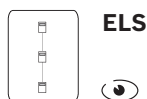
ELS



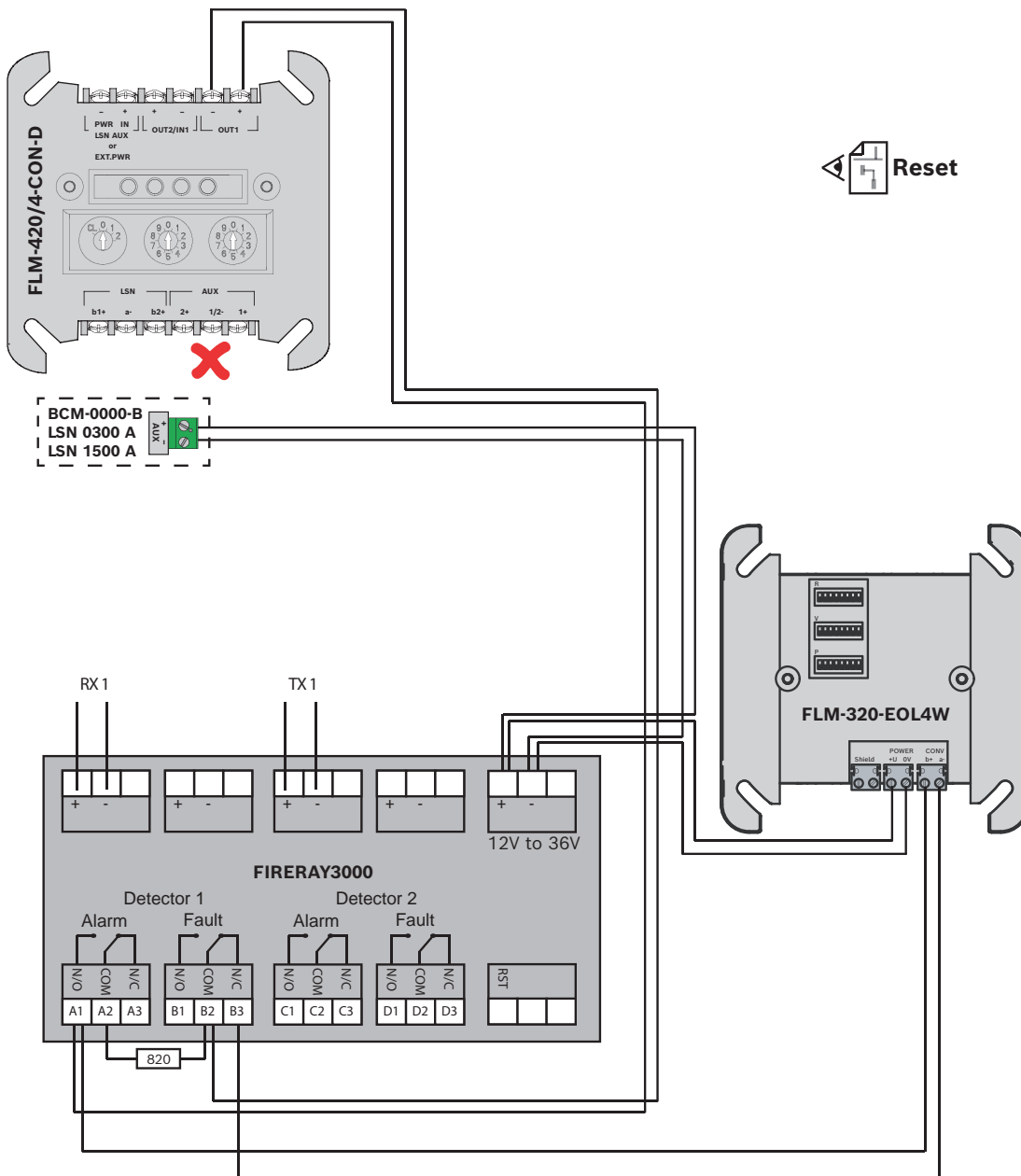


FIRERAY3000

1 x



ELS



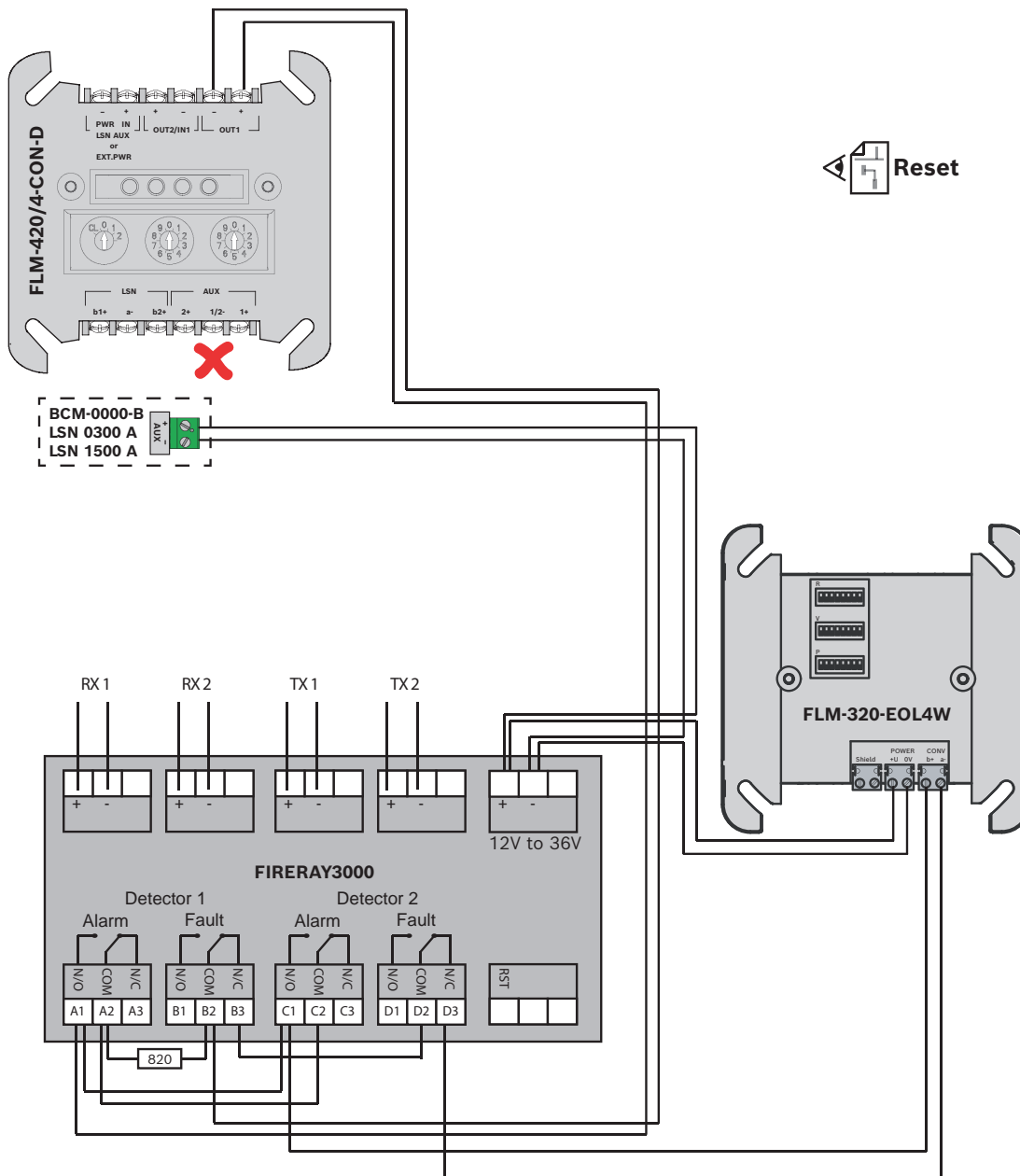


FIRERAY3000

2 x **OUT1**



ELS

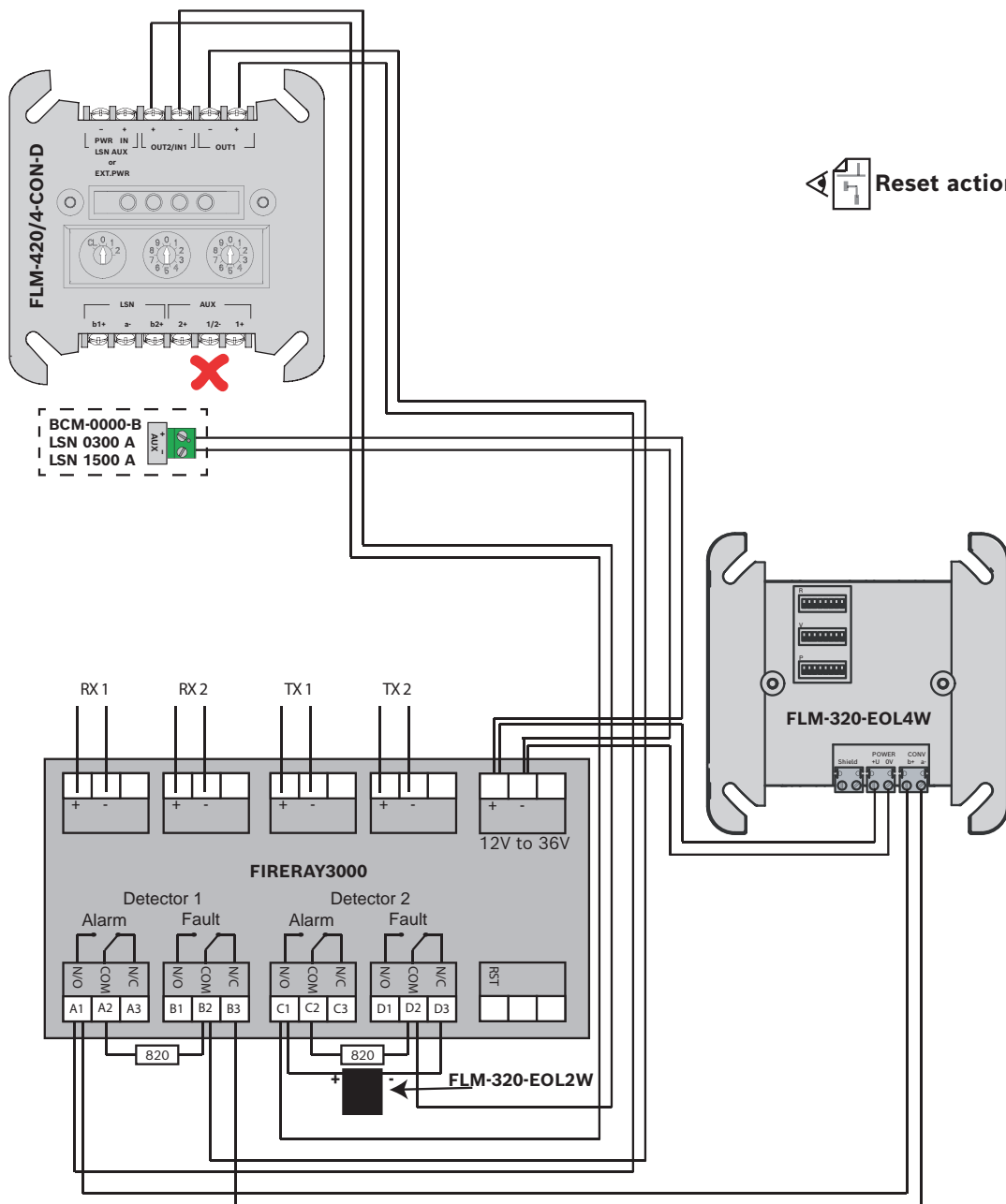




FIRERAY3000
2 x **OUT1+2**



ELS



Reset action

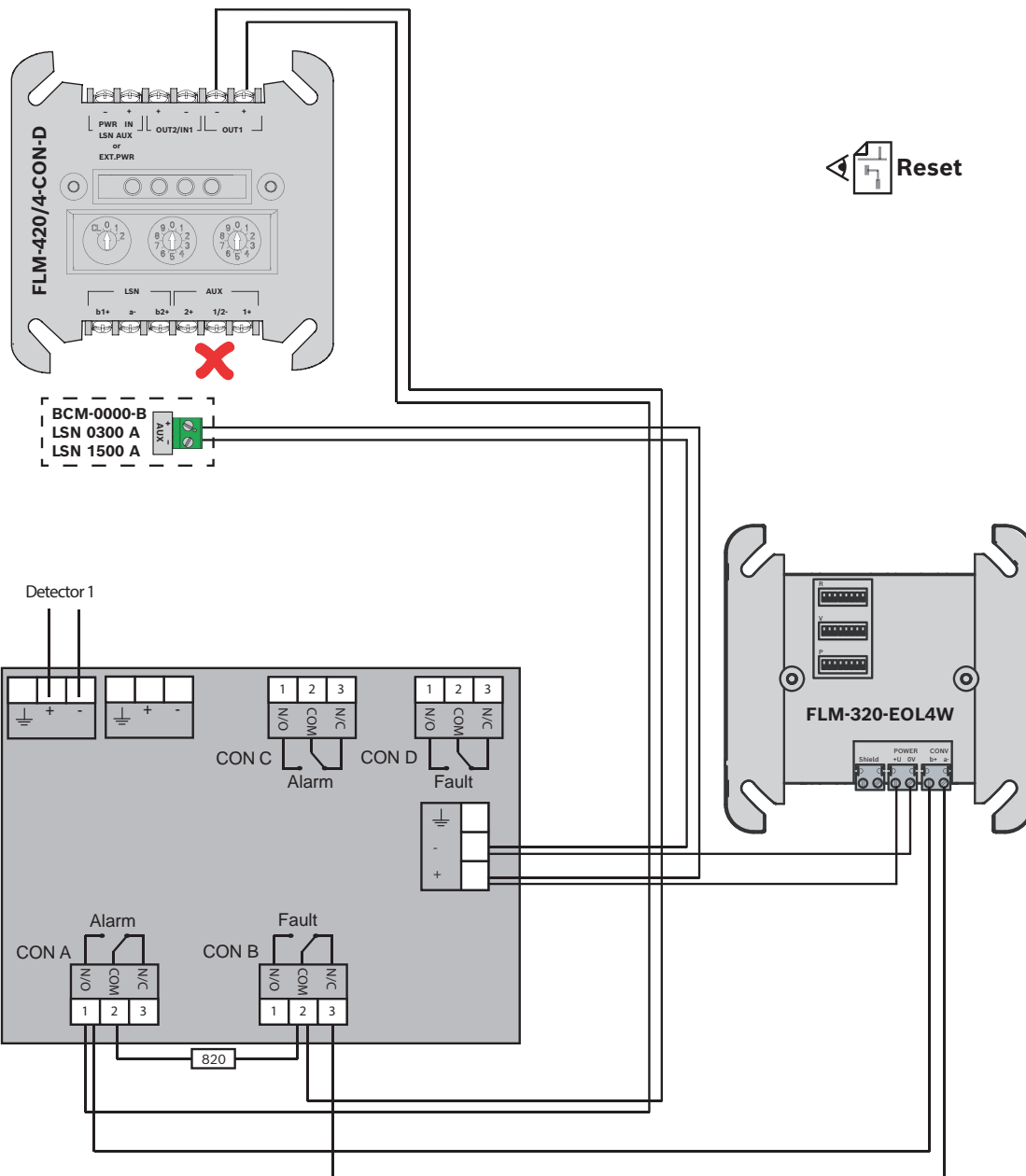


FIRERAY5000

1 x



ELS



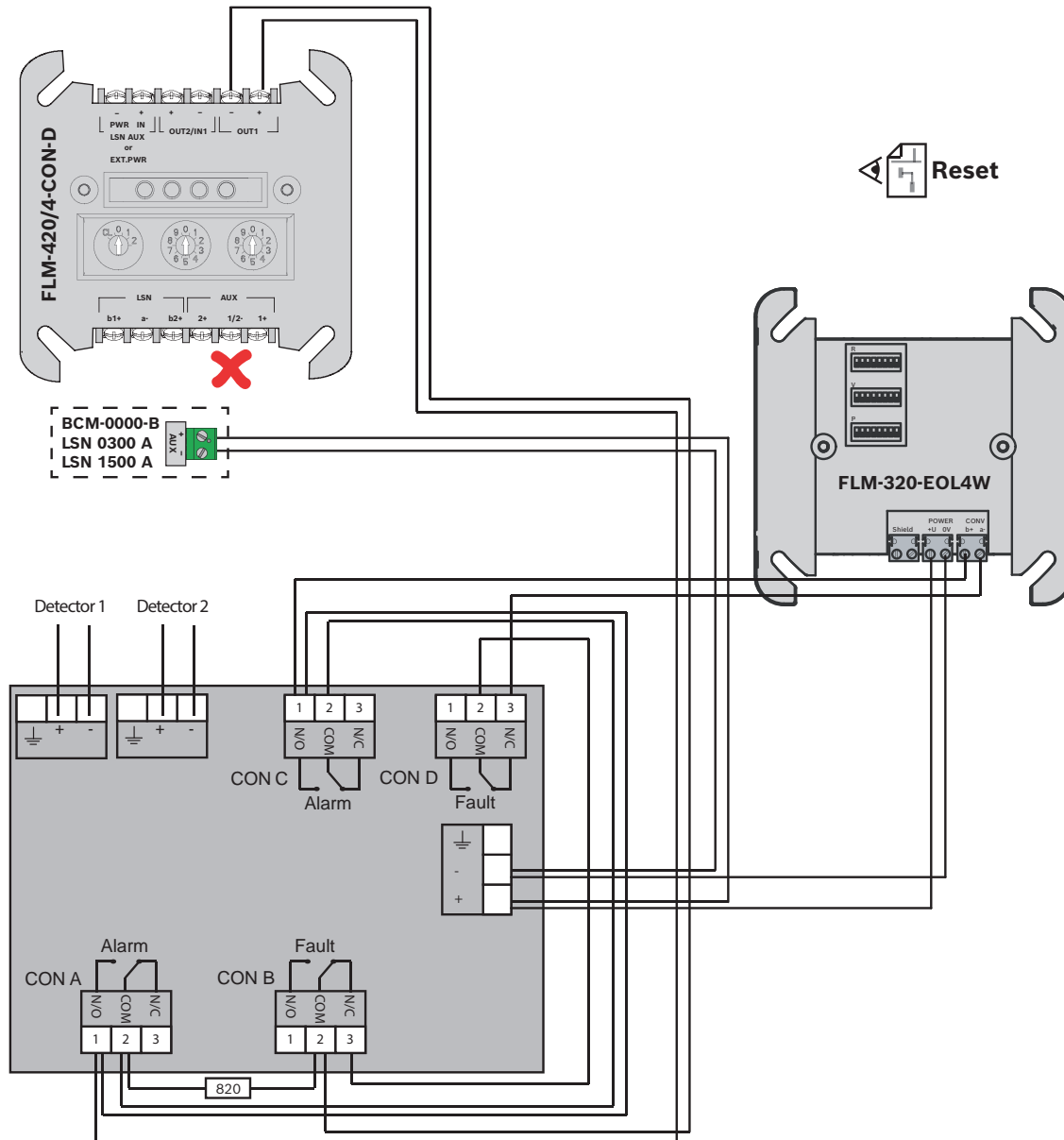


FIRERAY5000

2 x OUT1

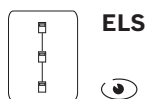


ELS



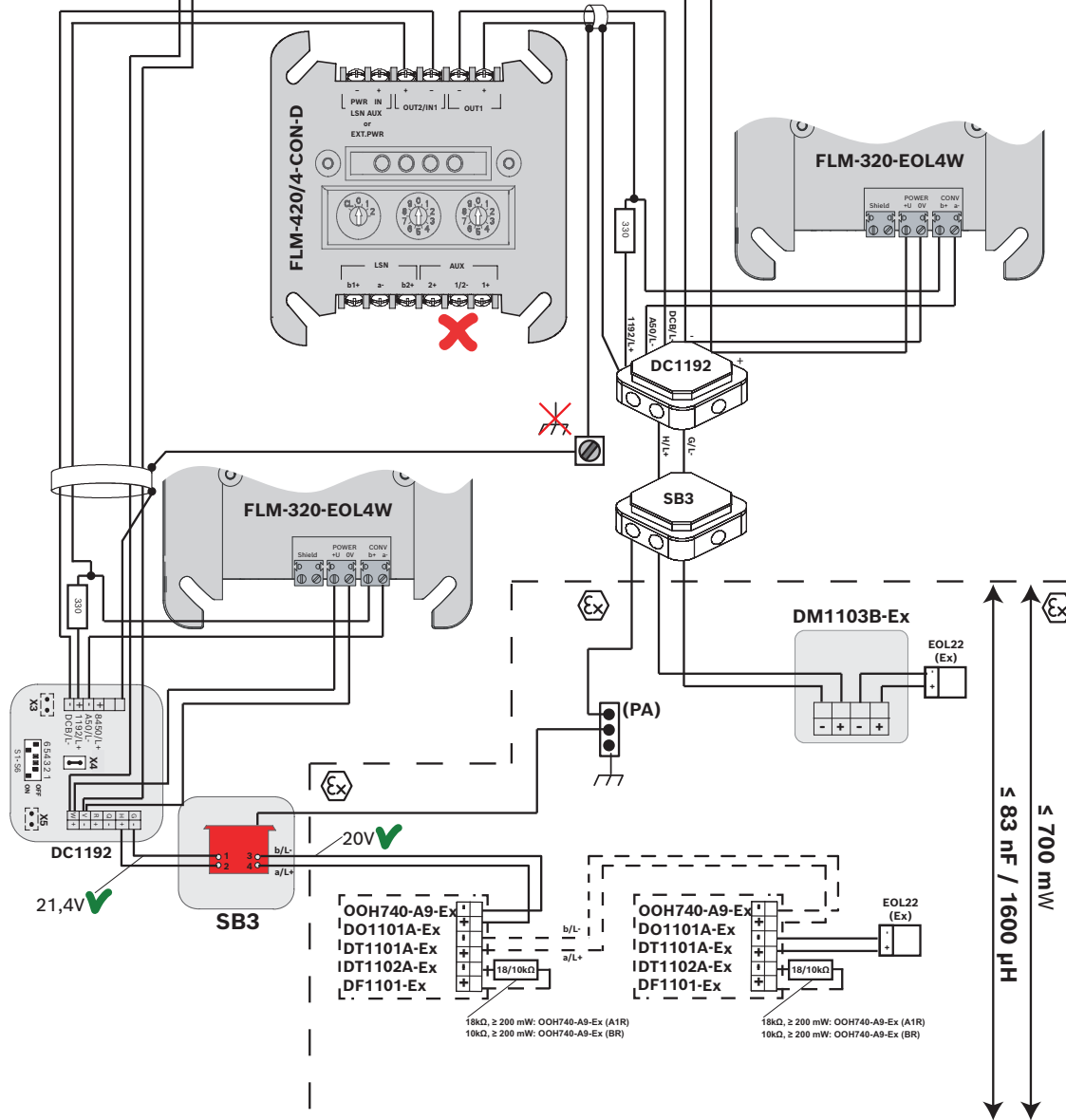


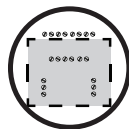
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 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



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BCM-0000-B
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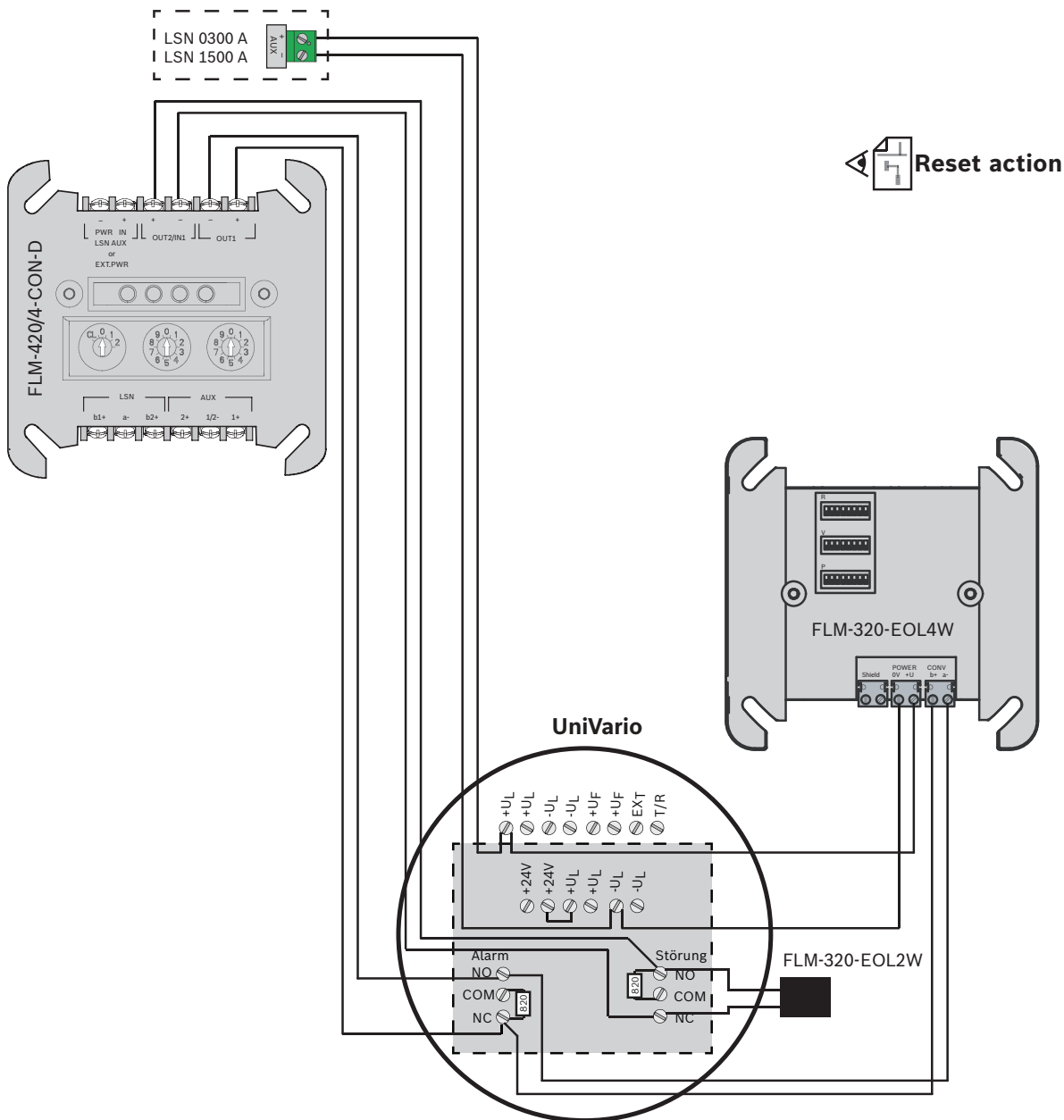




UniVario WMX5000
 UniVario FMX5000
 UniVario KMX5000



ELS



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