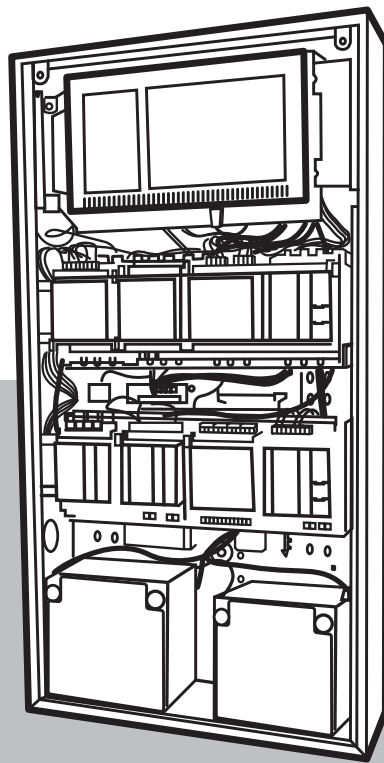


AVENAR panel series



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1 Obvestila

1.1 Vsebina

V tem priročniku za električne povezave so opisane povezave zunanjih naprav na protipožarno centralo. Nacionalni in lokalni predpisi niso upoštevani. Če se uporabijo nacionalne in lokalne zahteve, bodo morda potrebni dodatni priključki.

**Obvestilo!**

Opis povezav, zajet v tej dokumentaciji, velja tudi za izdelek AVENAR panel 2000, vendar samo pod pogojem, da je podjetje Bosch Sicherheitssysteme GmbH odobrilo razširitve izdelka AVENAR panel 2000.

**Obvestilo!**

Povezave modula LSN 0300 A, opisane v tem dokumentu, veljajo tudi za modul LSN 1500 A. Za namestitve modula LSN 1500 A v Nemčiji, kjer se zahteva skladnost z VdS 2540, razmislite o uporabi linije AUX in linije LSN v ločenih kabljih.

1.2 Informacije o izdelku

- Navodila za namestitev posameznih sestavnih delov protipožarne centrale si lahko ogledate v priloženem priročniku za namestitev.
- Več informacij (uporabniški priročniki, vodič za omrežno povezavo, sistemski priročnik) je na voljo na spletni strani: www.boschsecurity.com

1.3 Pomembne opombe

- Pri namestitvi uporabljajte samo priložena sredstva, ki jih predlaga podjetje Bosch Security Systems.
- Predelave ali lotanje lahko izvajate samo, če nosite ozemljitveno zapetnico.
- Postavitev in namestitev lahko opravi samo usposobljeno osebje.
- Upoštevajte zahteve za vzpostavitev povezav, ki jih predpisujejo lokalne oblasti/uradi.



Nevarnost!

Dotikanje sestavnih delov, ki so pod napetostjo, je lahko smrtno nevarno. Pred namestitvijo izklopite napajanje.

Oklep kabla

Oklep kabla je potreben za vse dvožične povezave s CZM 0004 A in za povezavo naslednjih izdelkov:

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

Vzorčno ožičenje prikazuje, kako uporabiti oklep kabla.



Obvestilo!

Če morate priključiti oklep kabla za LSN kabel, nadaljujte v skladu s specifikacijami LSN.

- Priključite oklep kabla LSN na strani plošče v namenski funkcionalni ozemljitveni konektor: dve povezavi na začetku in koncu zanke ena povezava na začetku držala
- Naredite zanko skozi oklep kabla na vseh zunanjih napravah LSN z uporabo priloženih sponk
- Dodatna priključitev oklepa kabla LSN ni dovoljena, niti v ozemljitvene konektorje na katerikoli lokaciji niti v drug električni potencial

1.4 Napotki za uporabnike

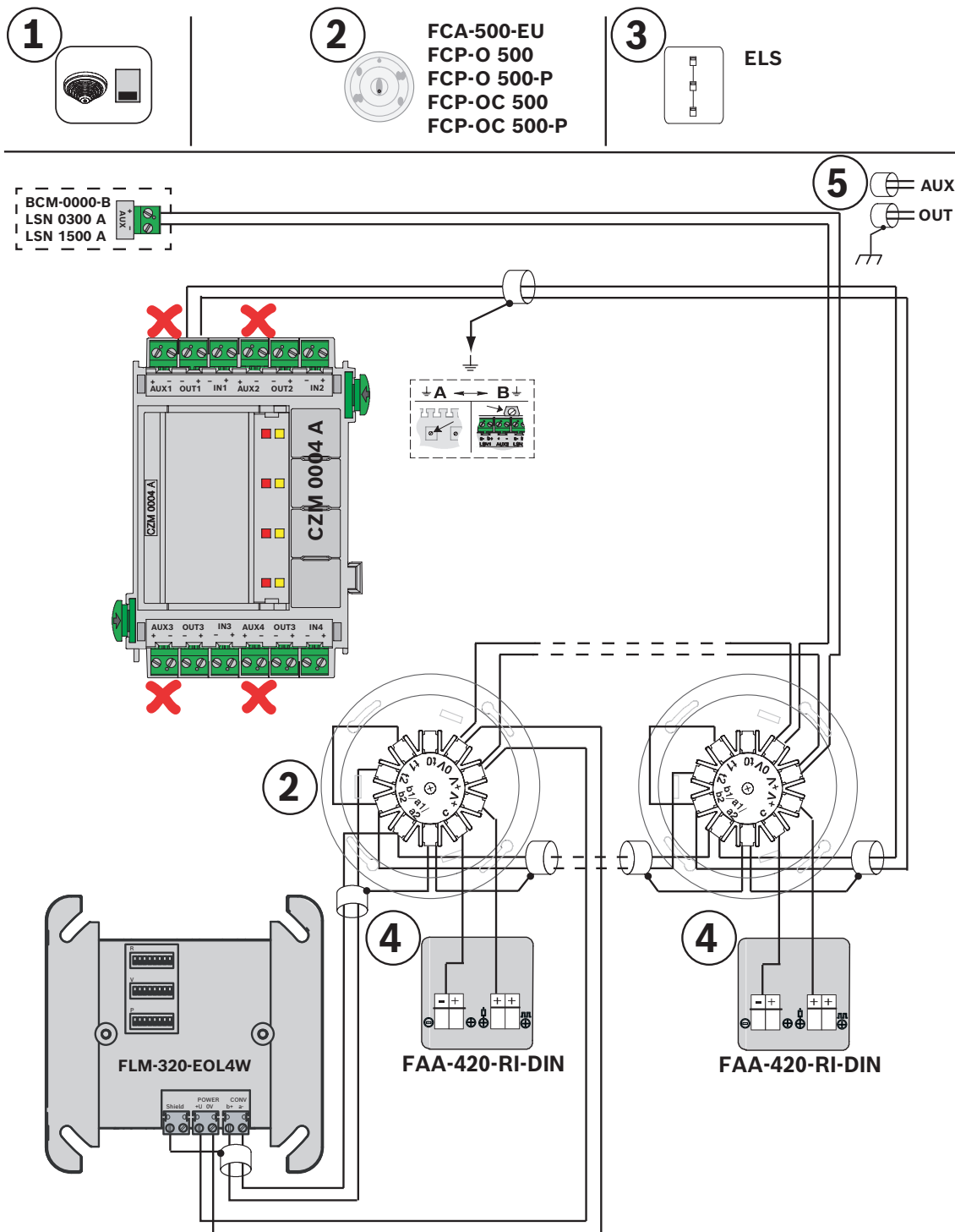
Zgradba priročnika za električne povezave:

- Poglavje Električna povezava je razporejeno po napravah, na katere je priključena periferna naprava. Ožičenje prikazuje neposredno povezavo ene naprave na drugo (brez kaskadnih povezav).
- V razdelku EOL poiščite zbirko vseh ožičenj, obogatenih z dodatnimi moduli EOL za postopen odprti nadzor.

Če želite najti ustrezno ožičenje, uporabite tudi:













- kazalo vsebine na začetku poglavja Električna povezava in na začetkih razdelkov Delovni moduli, Vmesniški moduli in EOL.
- Index (nevtralen jezik),
- in iskanje po celotnem besedilu.

Glejte naslednje vzorčne kableske povezave:




















1	Oznake poglavij (<i>Oznake poglavij, stran 7</i>)
2	Zunanja naprava, ki jo je mogoče priključiti
3	Oznake povezav (<i>Oznake povezav, stran 7</i>)
4	Dodatni sestavni deli
5	Napajanje in kabli (<i>Napajanje in kabli, stran 8</i>)

1.4.1 Oznake poglavij



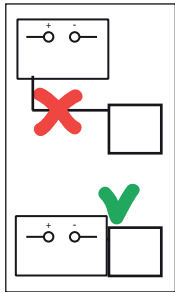
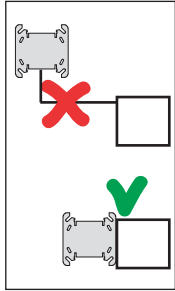

	Samodejni javljalniki		Nadzorne plošče in zasloni		Tiskalnik
	Napajanje		Delovni moduli		Protipožarna oprema
	Vmesniški moduli		Gasilni sistemi		Ročni javljalniki
	Signalne naprave		Moduli za upravljanje z vrati		Oddajne enote

1.4.2 Oznake povezav

	Obvezni kabli		Dodatni kabli		Ni dovoljeno
	Redundantnost		Vezava v zanko		Vezava v zanko z redundantnim elementom
	Vezava z odcepom		Vezava z redundantnim odcepom		Vezava z odcepom in redundantnim elementom
	Vezava z redundantnim odcepom in redundantnim elementom	ELS	<p>Ta vezava je skladna s standardom VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS pomeni razširjen nadzor linije, kar pomeni postopen kratki stik in postopen odprti nadzor. Ta vezava ponuja možnost ELS.</p> <p>Postopen kratki stik zaznajo naslednji moduli: LSN 0300 A, LSN 1500 A in BCM-0000-B pri uporabi FPP-5000-TI13.</p>		Ta vezava v zanko je skladna s standardom VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. Ponuja ELS. Dodatni moduli EOL niso potrebni.
	Sinhronizacija		Območja z nevarnostjo eksplozije		Centrala
	Samostojna plošča		Samostojna plošča z redundanco		Za podnožja detektorjev: kabli veljajo le za podnožje detektorja, v katerem je nameščen detektor.

EN 54-2, DIBT itd.	Če morate zagotoviti skladnost s tem standardom, uporabite predpisane kable.				
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1.4.3 Napajanje in kablji

	Potreben je dvožični kabl.
	Potreben je oklopljen dvožični kabl.
	Ohišje izdelka, v katerem je napajalnik, mora biti poravnano z elementom.
	Za vmesniški modul je potrebna poravnana namestitvev.
 Reset action	Oglejte si podatke o vezavi v tem priročniku. Če želite zagotoviti samodejno ponastavitev naprave, morate izvesti dejanje ponastavitve.

1.5 Vrednosti uporov

V naslednji tabeli so navedene barvne oznake uporov. Upori s kovinsko prevleko, dobavljeni skupaj z izdelkom, imajo 5 barvnih trakov, ki označujejo upor.

Barva	1. trak	2. trak	3. trak	4. trak (množitelj)	5. trak (odstopanje)
Srebrna				10^{-2}	$\pm 10\%$
Zlata				10^{-1}	$\pm 5\%$
Črna		0	0	10^0	
Rjava	1	1	1	10^1	$\pm 1\%$
Rdeča	2	2	2	10^2	$\pm 2\%$
Oranžna	3	3	3	10^3	$\pm 0.05\%$
Rumena	4	4	4	10^4	$\pm 0.02\%$
Zelena	5	5	5	10^5	$\pm 0.5\%$

Barva	1. trak	2. trak	3. trak	4. trak (množitelj)	5. trak (odstopanje)
Modra	6	6	6	10 ⁶	±0.25%
Vijolična	7	7	7	10 ⁷	±0.1%
Siva	8	8	8	10 ⁸	±0.01%
Bela	9	9	9	10 ⁹	

V skladu s standardom DIN EN 60062:2017

Oranžna – bela – črna – rjava – rjava: 3,9 kΩ upornik z 1 % odstopanjem,

Rdeča – rdeča – črna – rjava – rjava: 2,2 kΩ upornik z 1 % odstopanjem,

2 Wiring



FPP-5000 Power supply, stran 11

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

DIBT, stran 15

Functional Modules, stran 42

BCM-000-B, stran 43

CZM 0004 A, stran 45

ENO 0000 A/B, stran 61

LSN 0300 A, stran 68

NZM 0002 A, stran 106

RMH 0002 A, stran 119

IOS 0020 A, stran 120

FPE-5000-UGM, stran 122

Interface Modules, stran 124

FLM-420-4/CON-D/S, stran 125

FLM-420-I8R1-S, stran 158

FLM-420-NAC-D/S, stran 160

FLM-420-RHV, stran 172

FLM-420-RLE-S, stran 184

FLM-420-RLV1-E, stran 185

FLM-420-RLV8-S, stran 186

FMF-ADP-FBF/FMF-ADP-TTY, stran 187

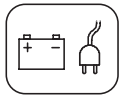
EOL, stran 188

CZM 0004 A, stran 189

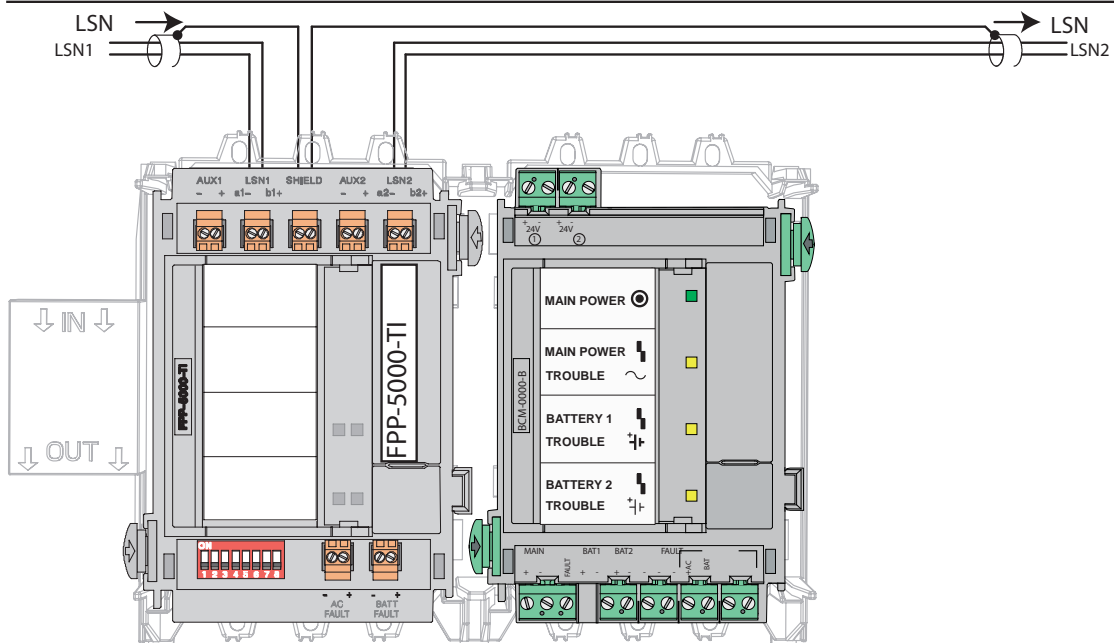
LSN 0300 A, stran 201

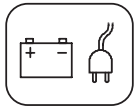
FLM-420/4-CON-S/D, stran 246

2.1 FPP-5000 Power supply



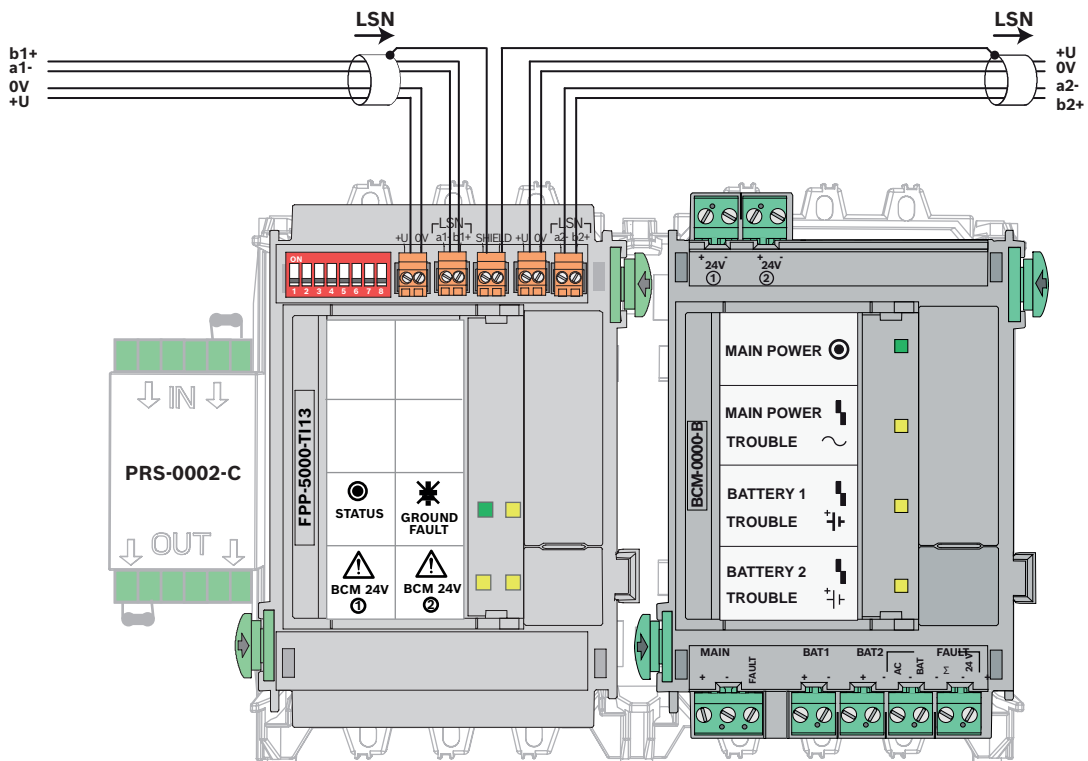
FPP-5000-TI



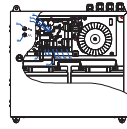
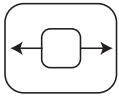


FPP-5000-TI13

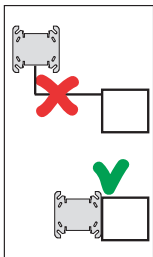
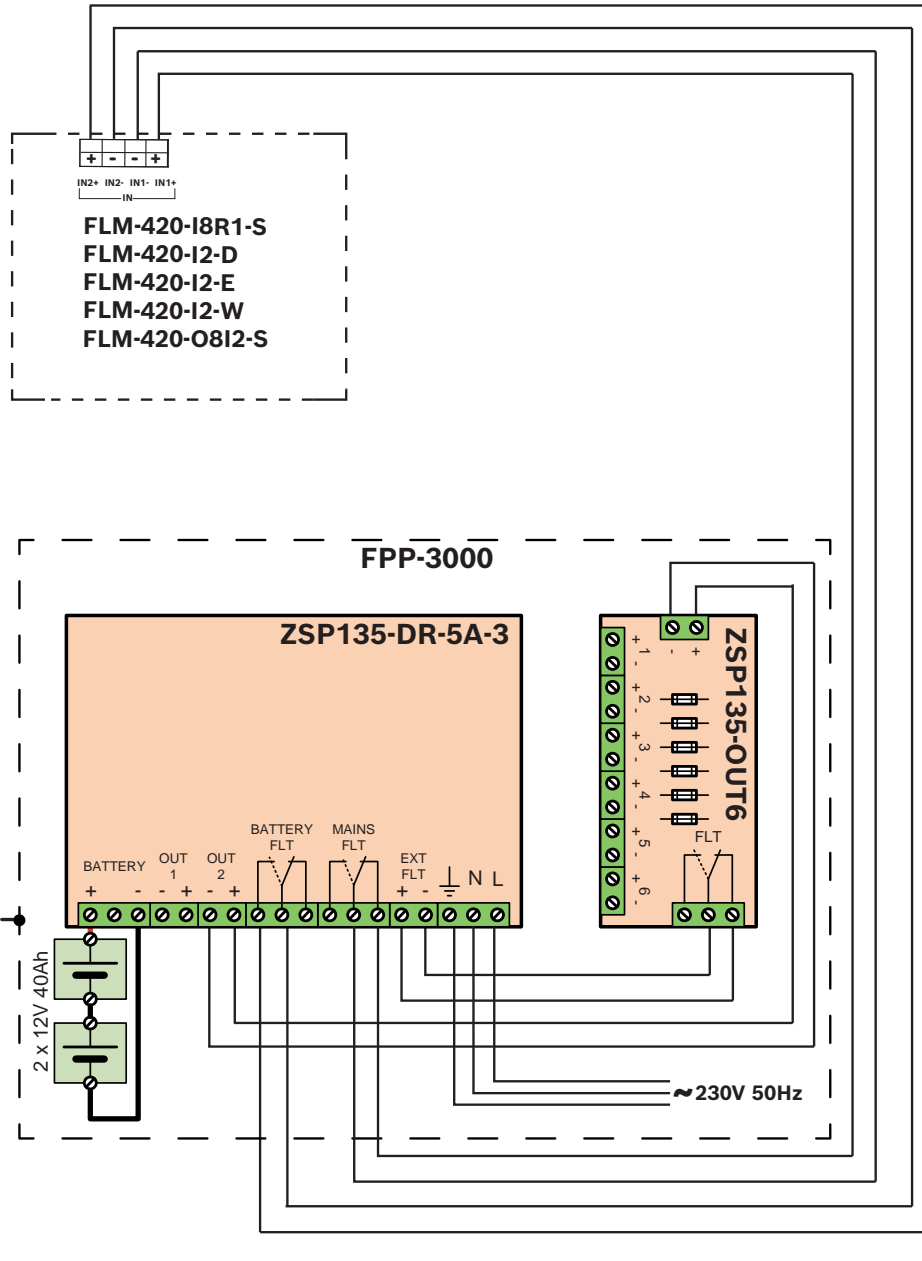
ELS

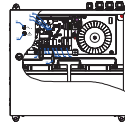
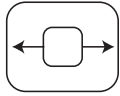


2.2 FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6)

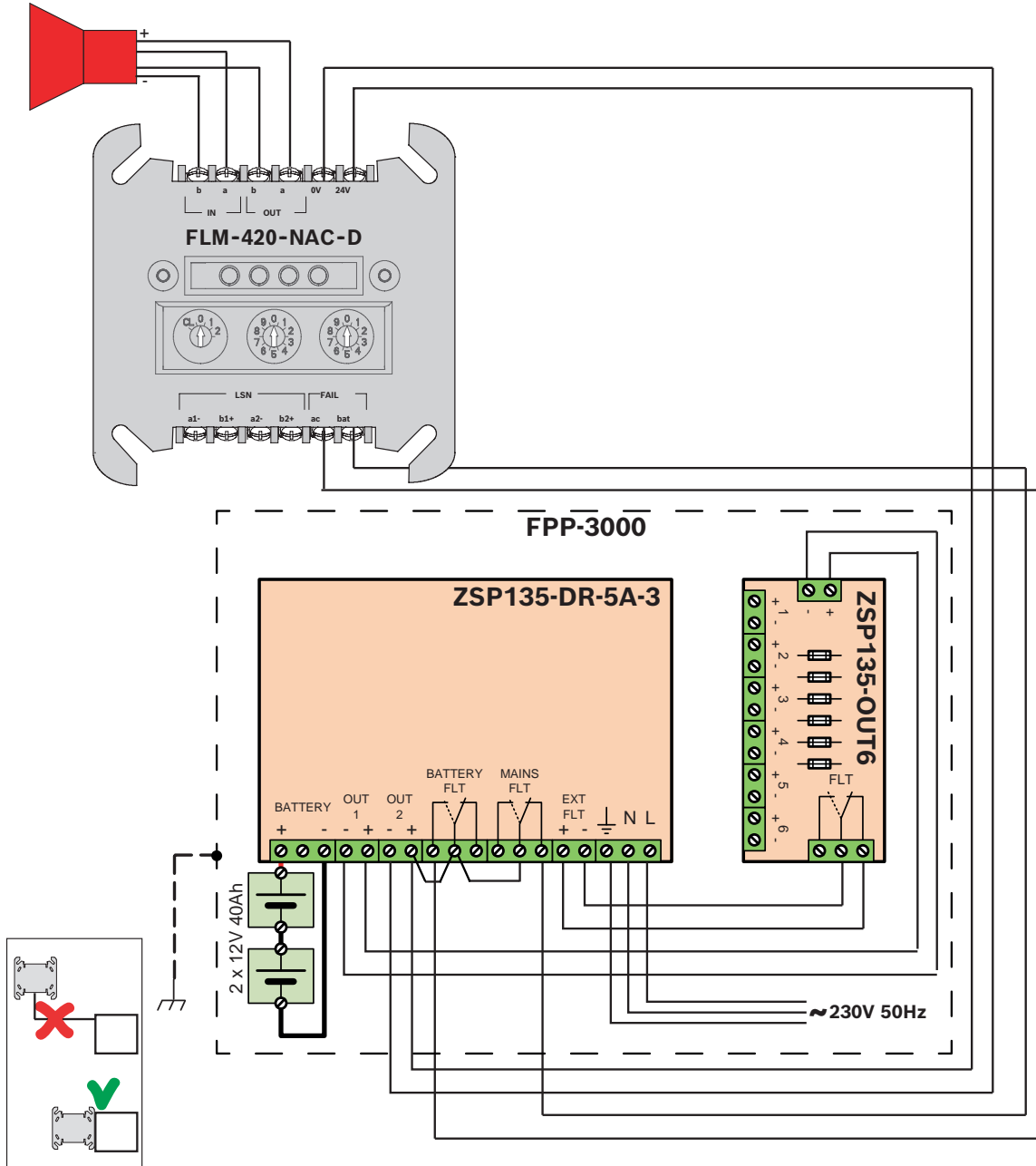


ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000



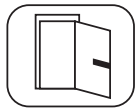


ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000



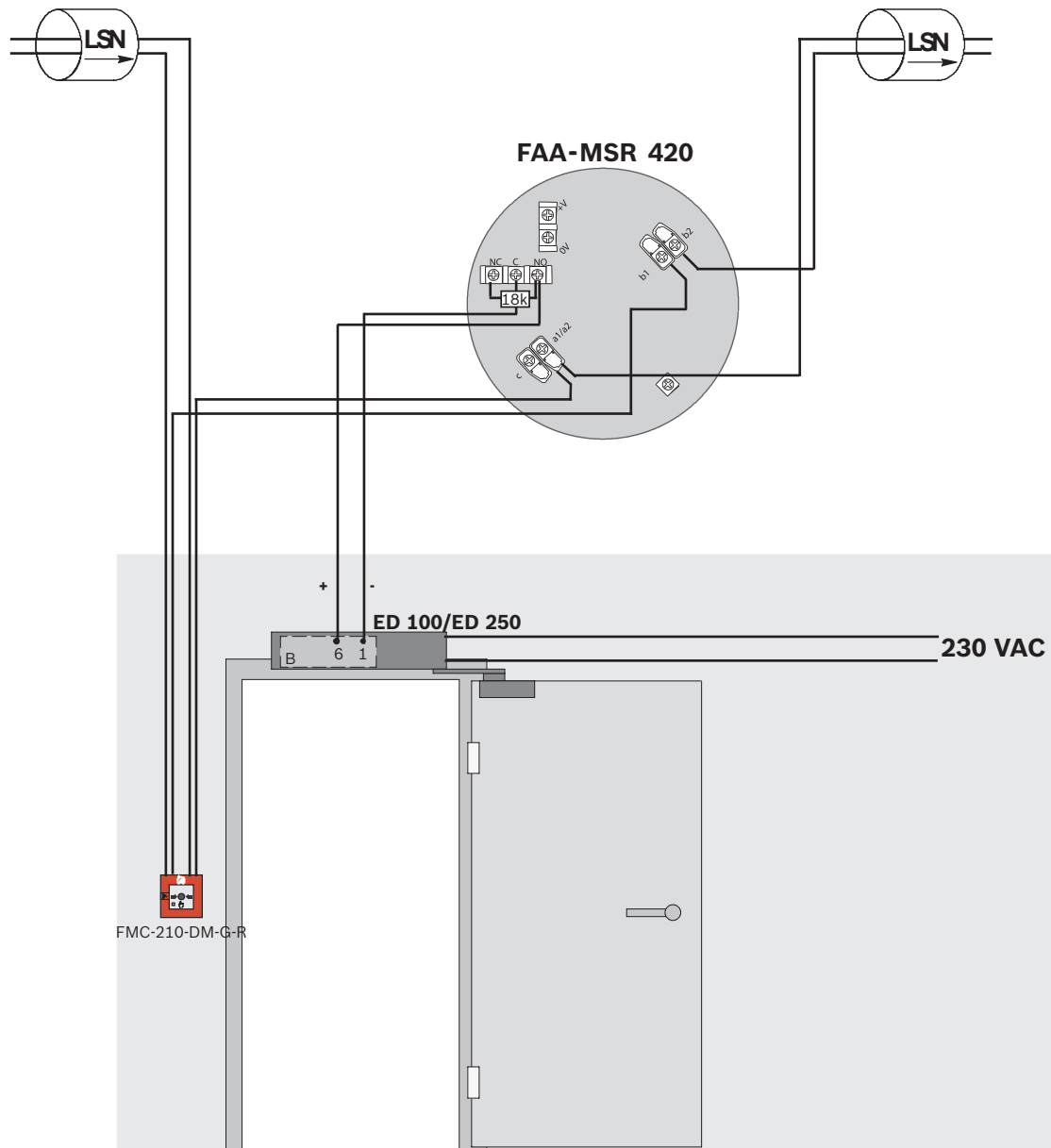
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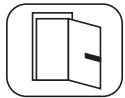
DIBT



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

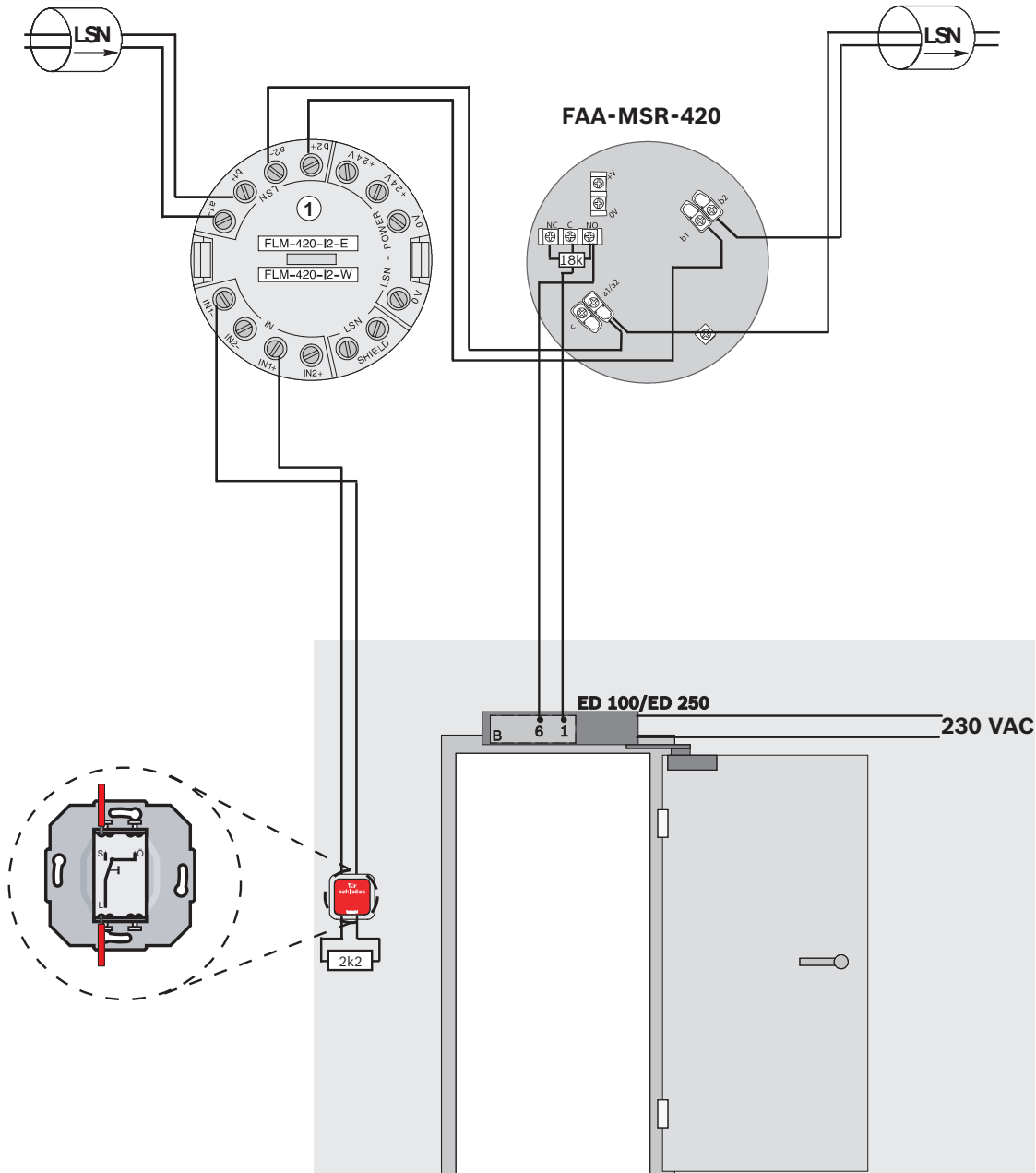
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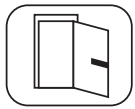




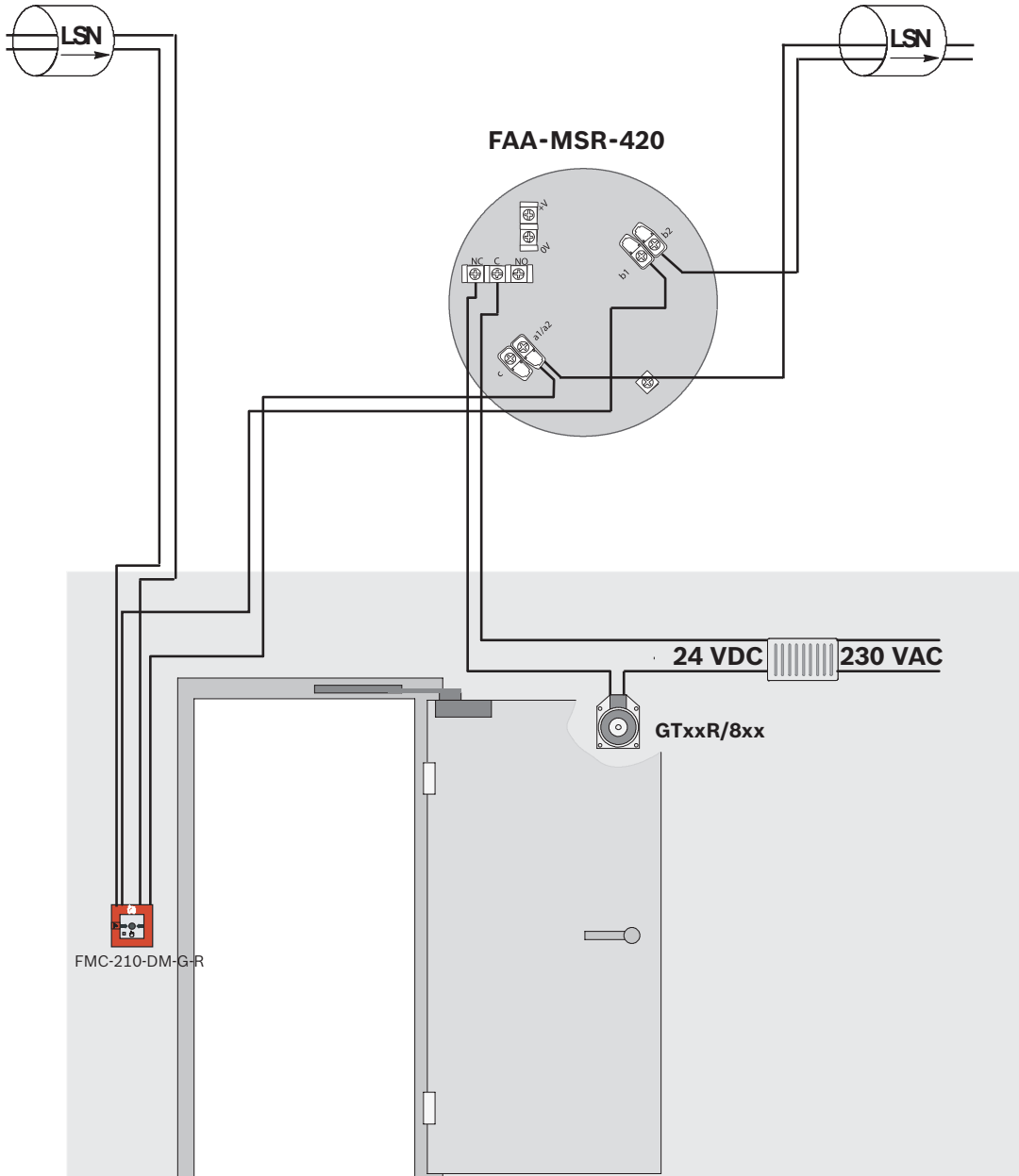
**ED 100
ED 250
(+Upgrade Card B)**

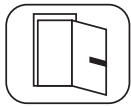
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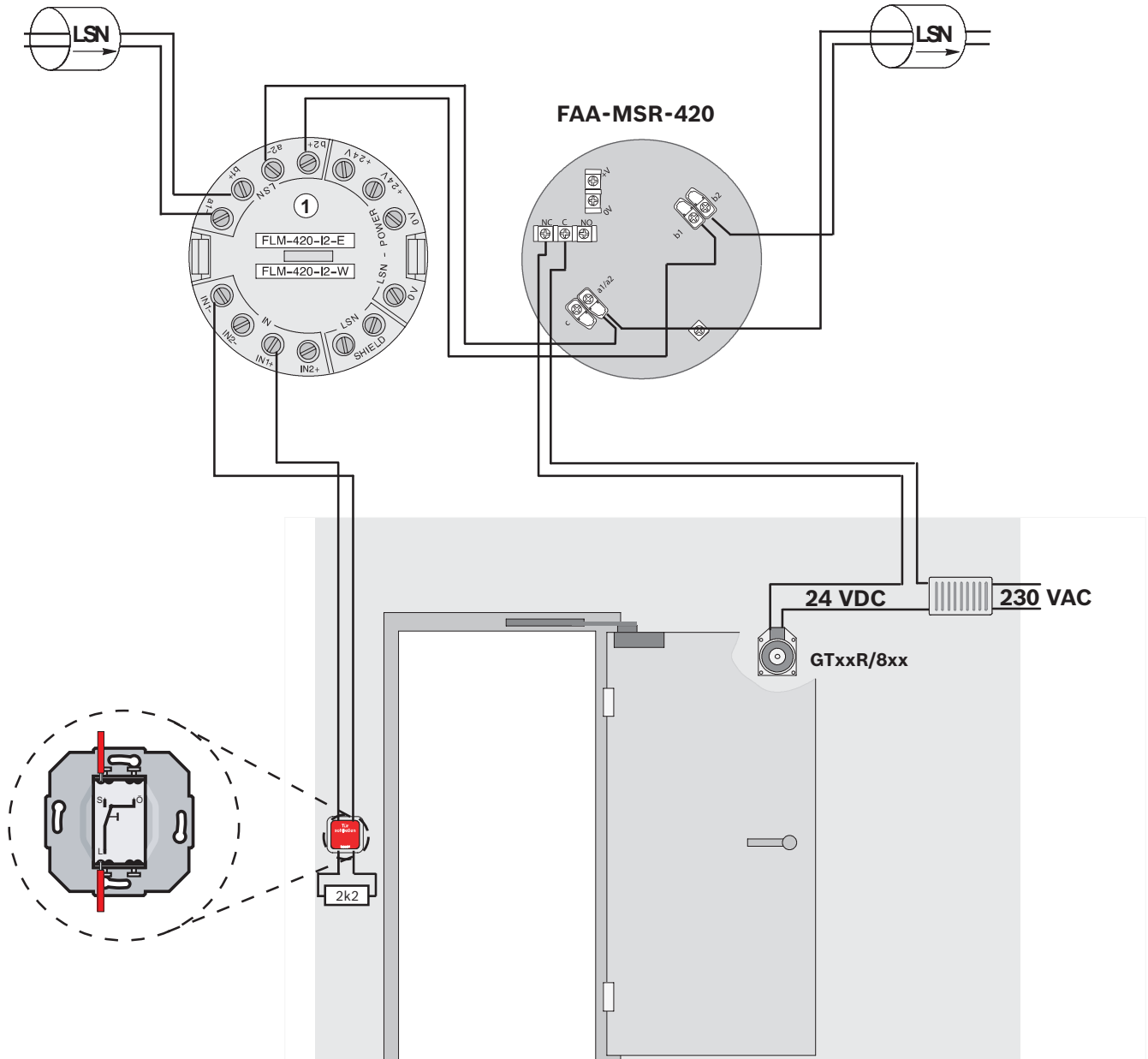


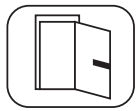
DIBT





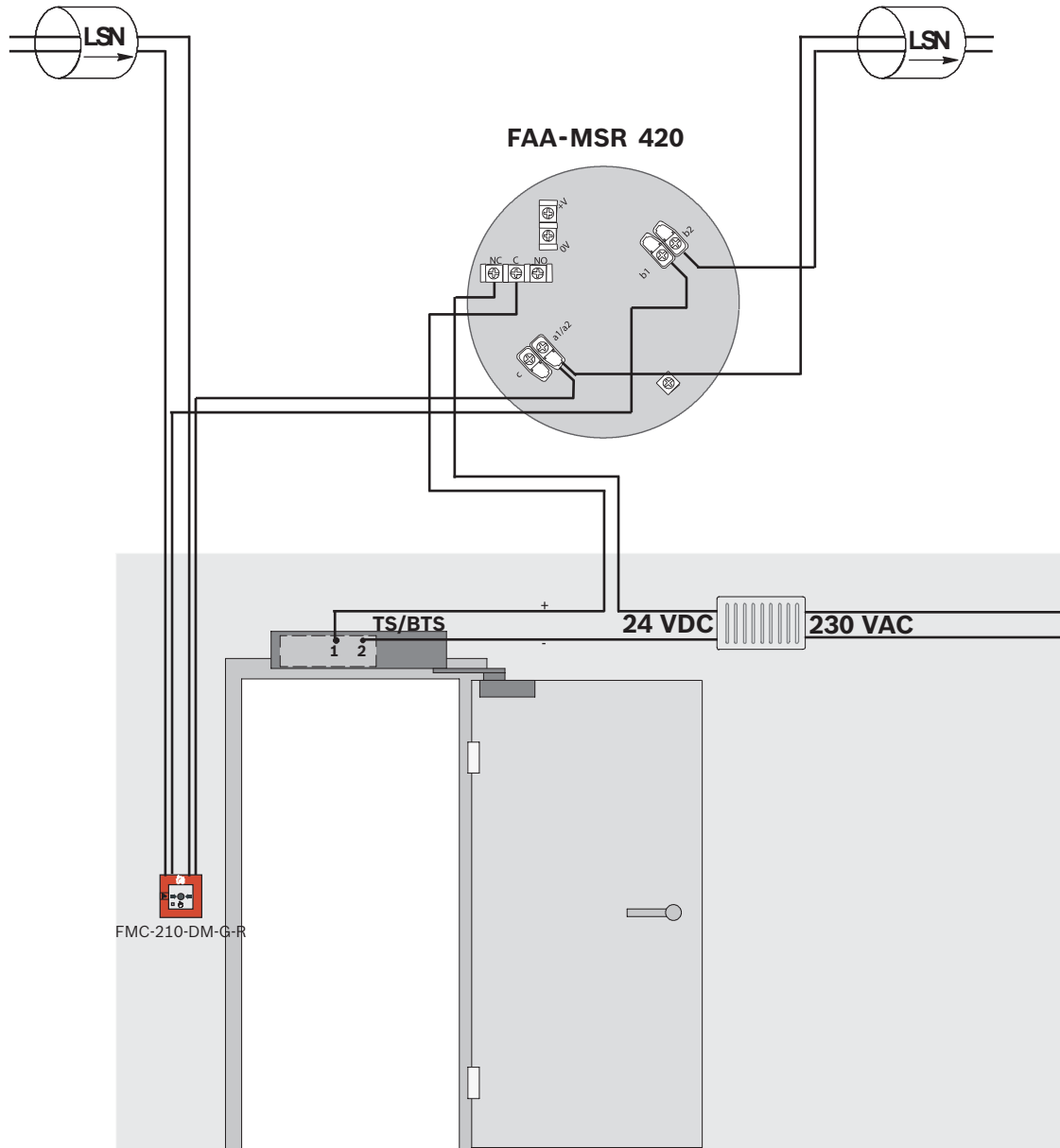
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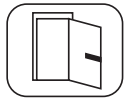




TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

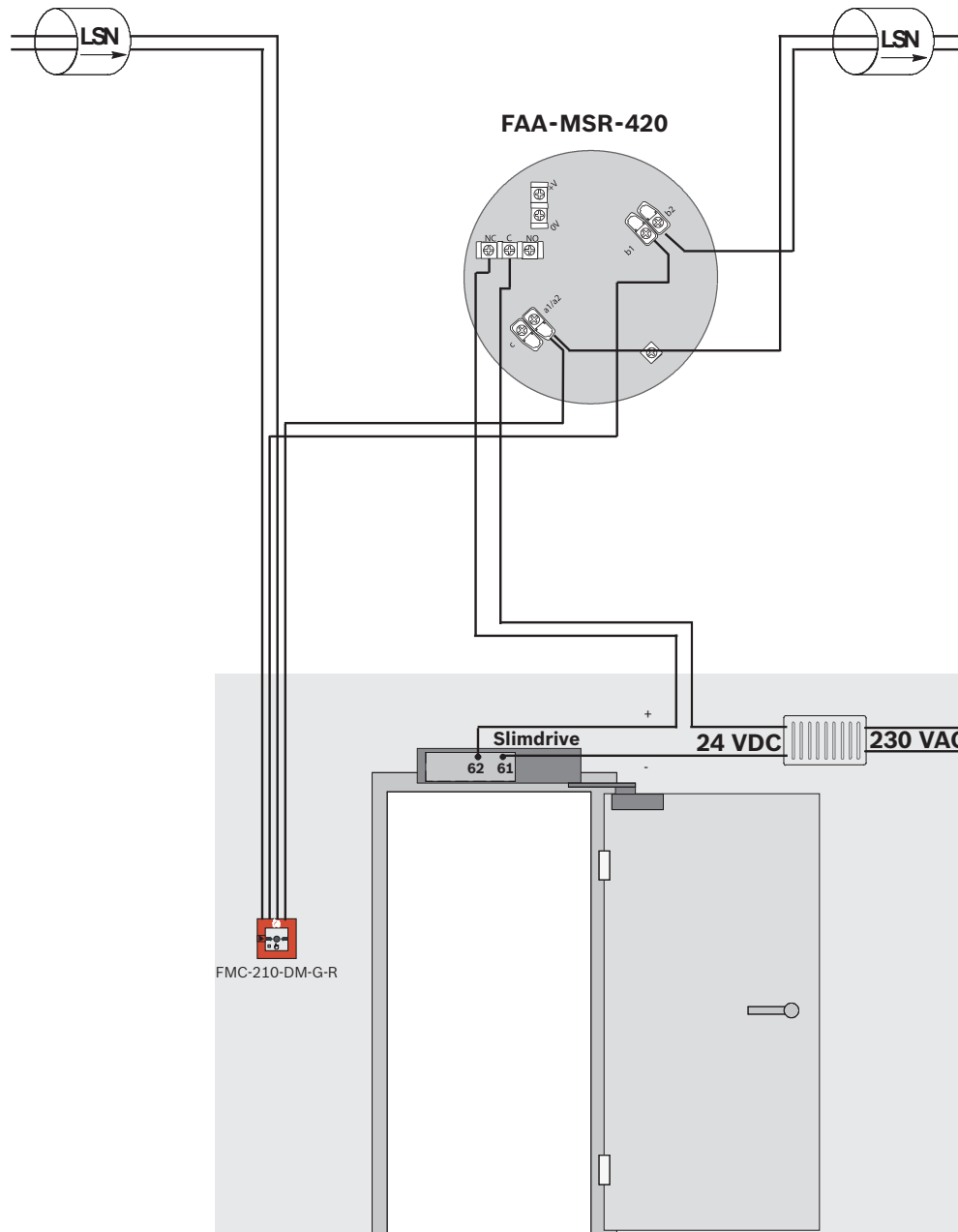
DIBT

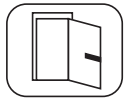




Slimdrive EMD-F/EMD F-IS

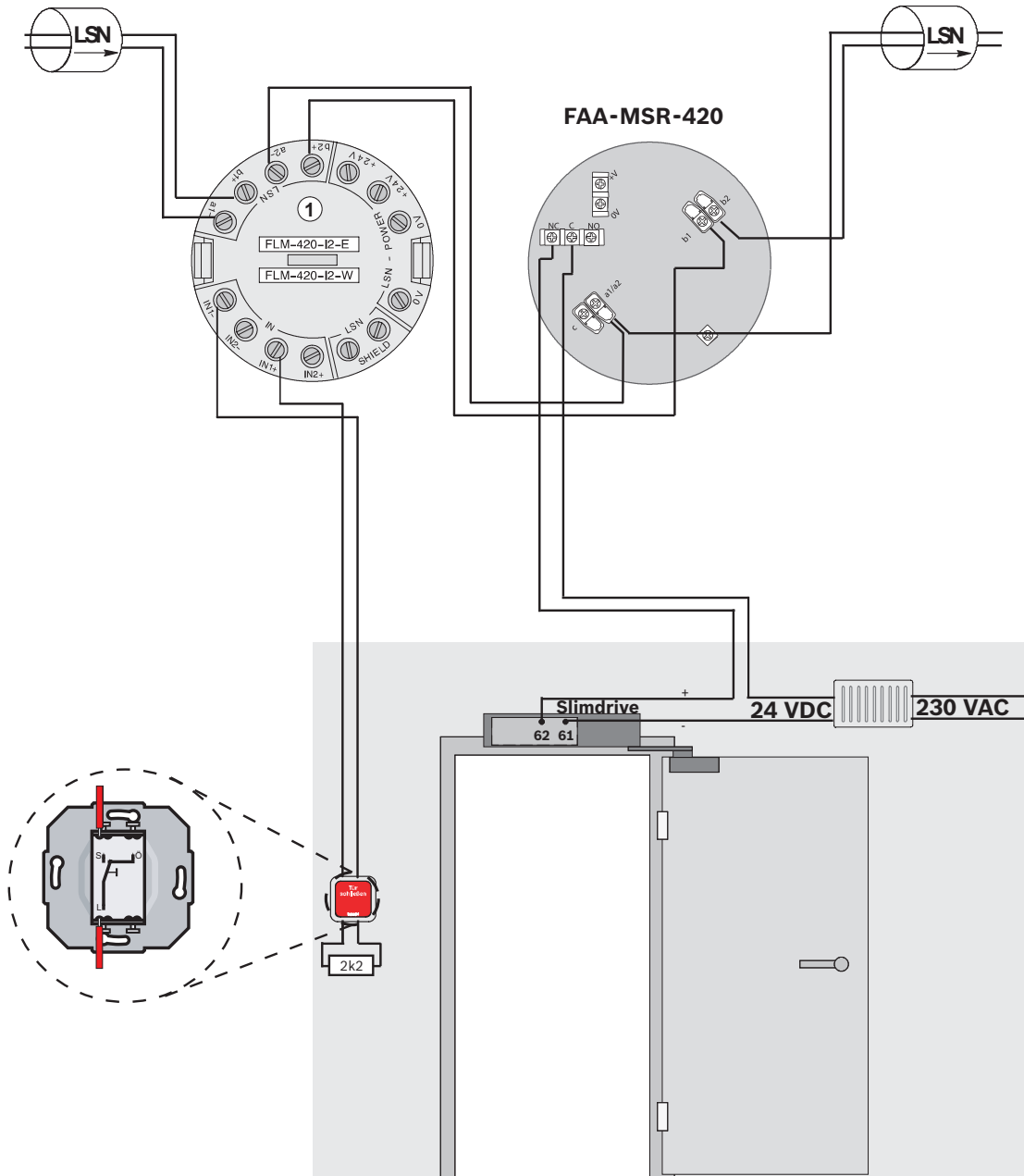
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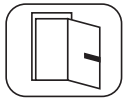




Slimdrive EMD-F/EMD F-IS

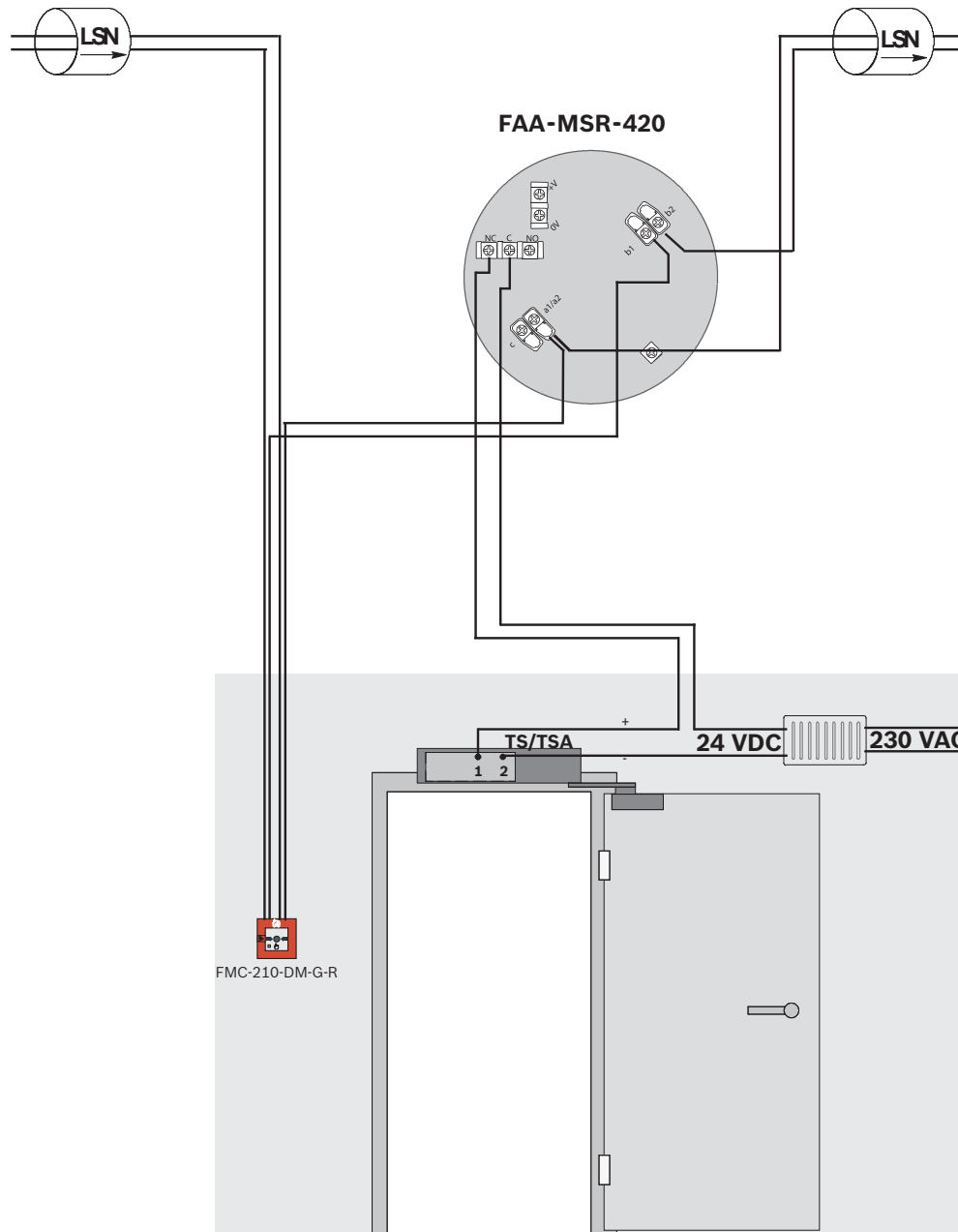
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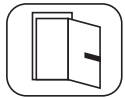




TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

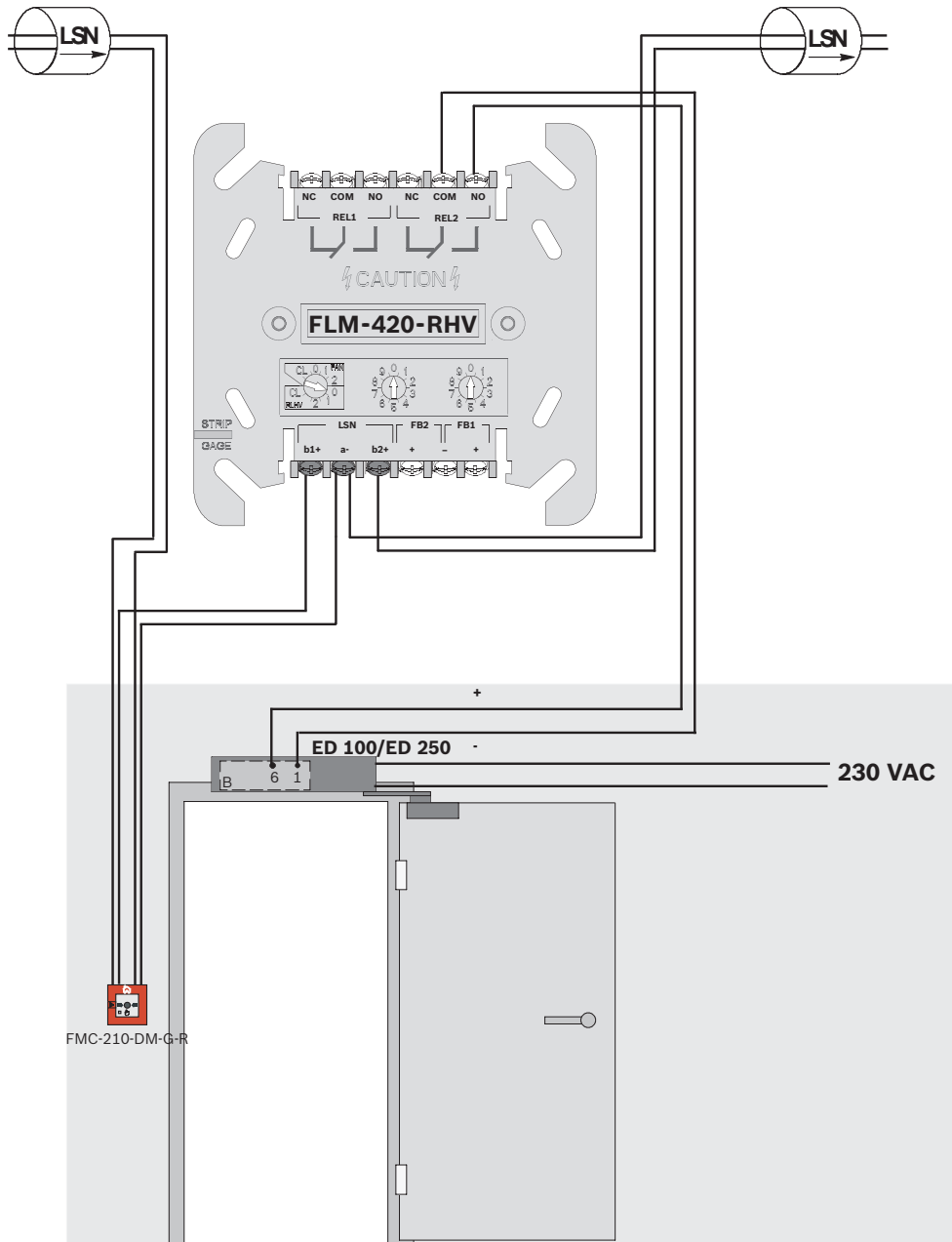
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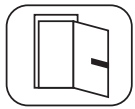




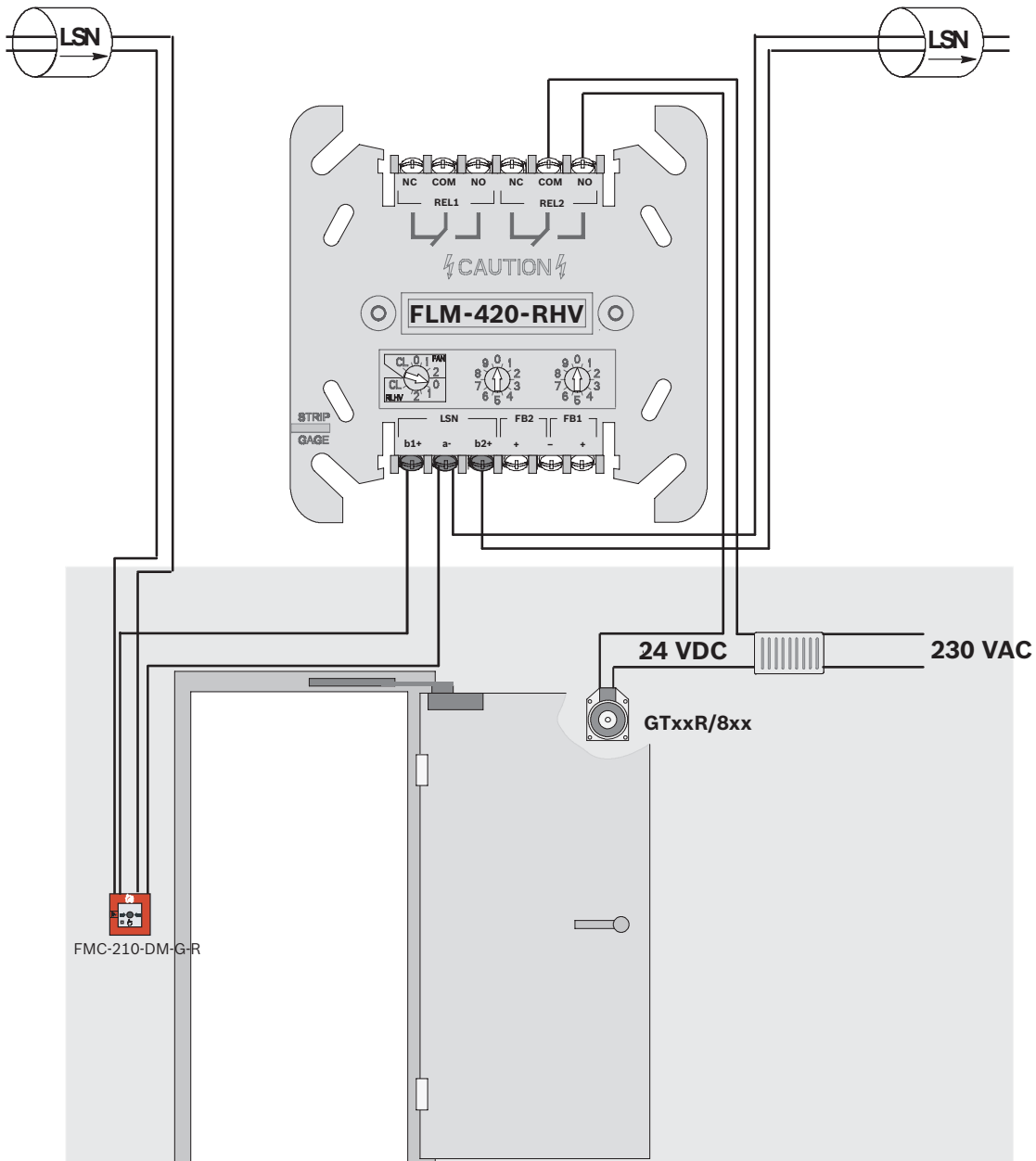
**ED 100
ED 250
(+Upgrade Card B**

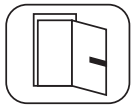
DIBT





DIBT

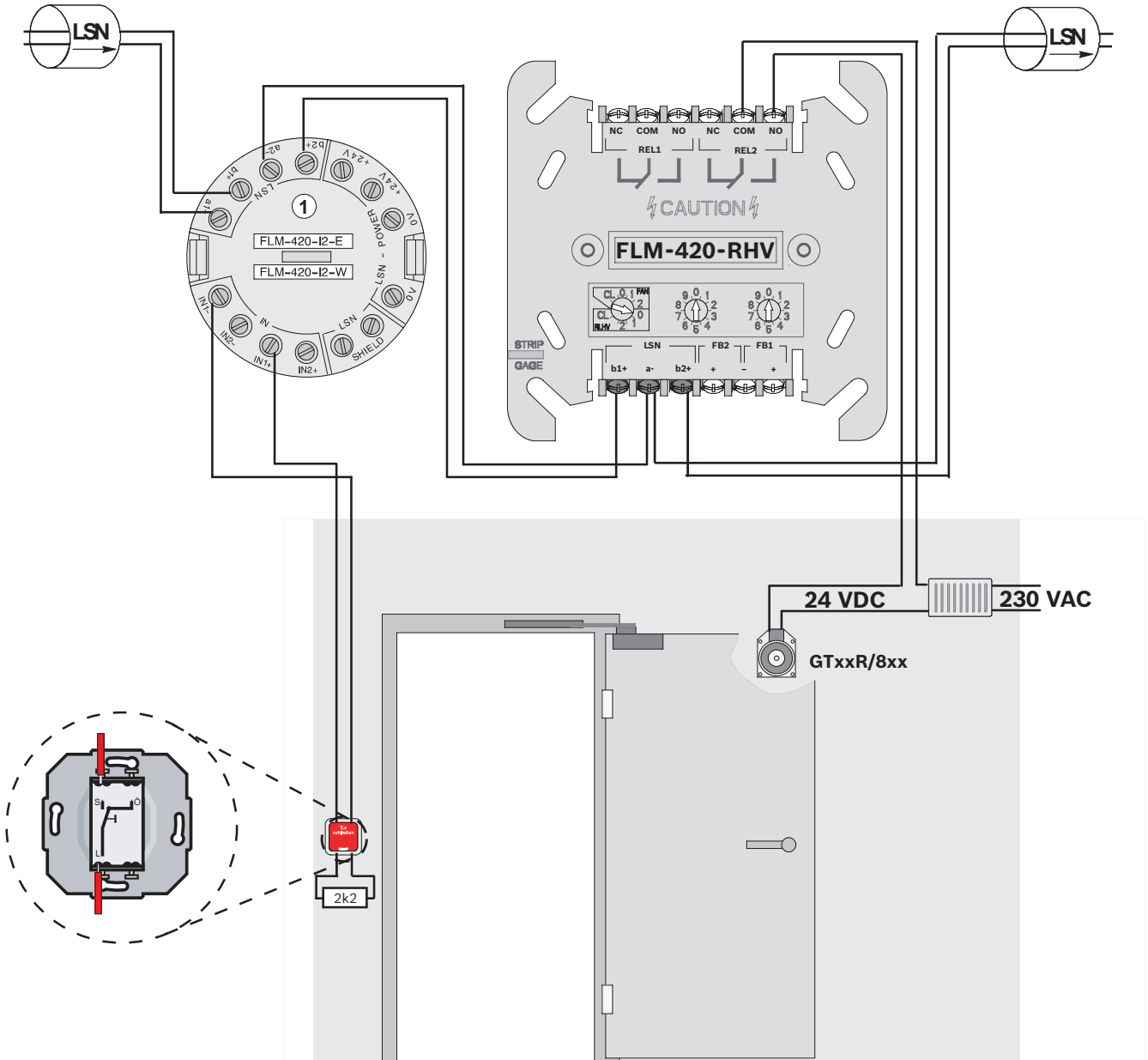


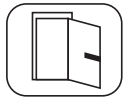


GT xx R

8 xx

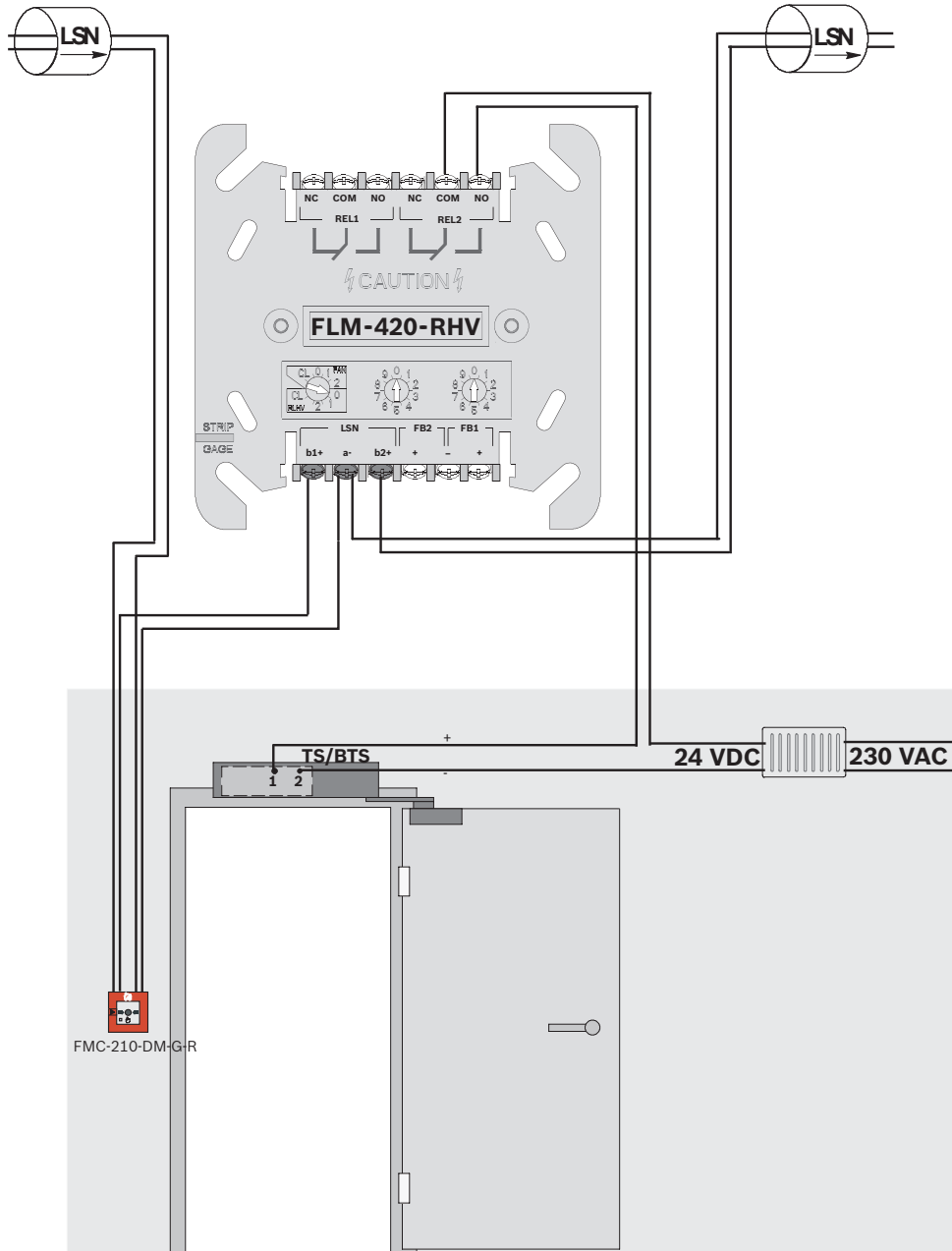
DIBT



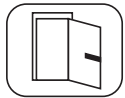


TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

DIBT

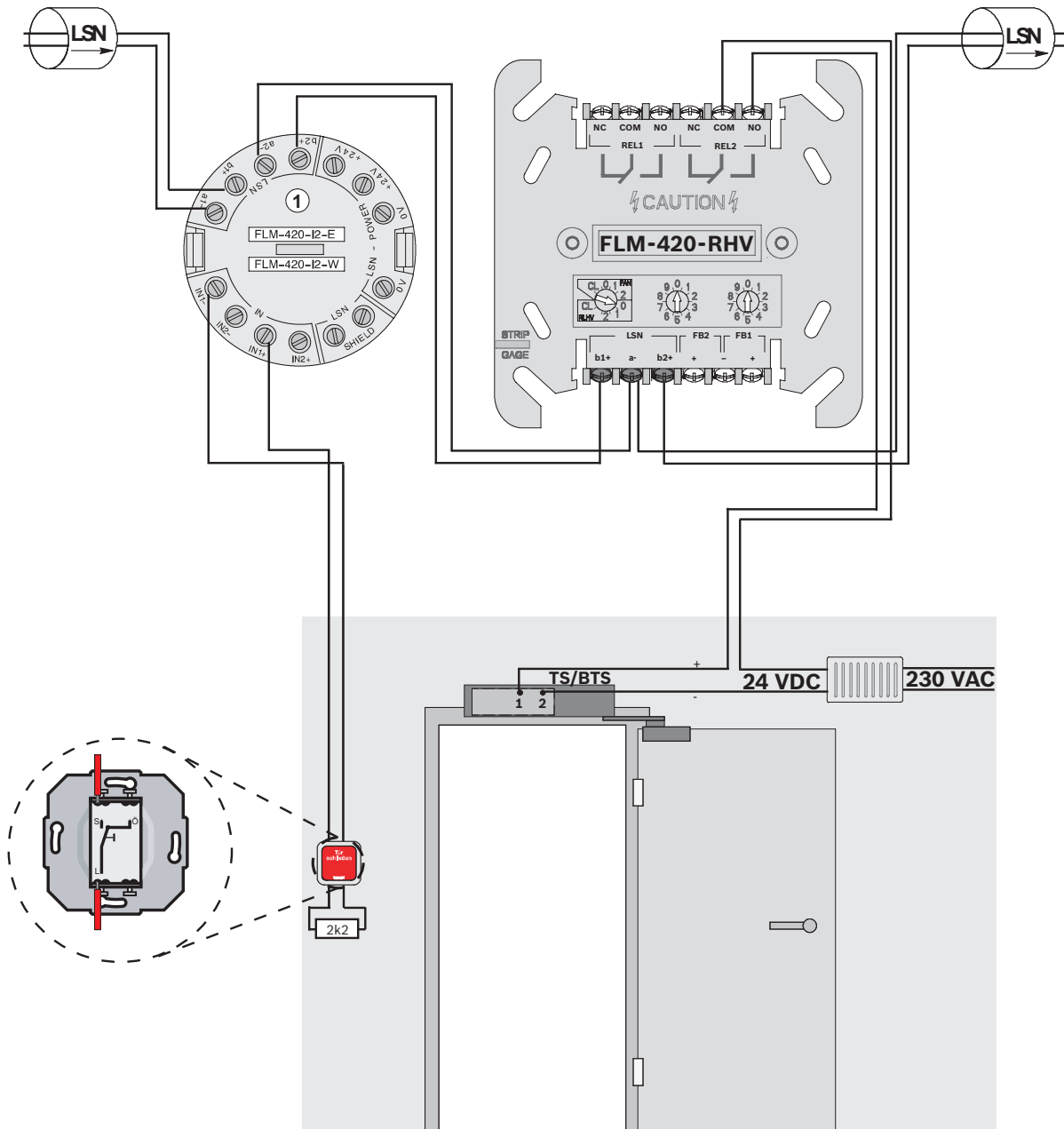


FMC-210-DM-G-R



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

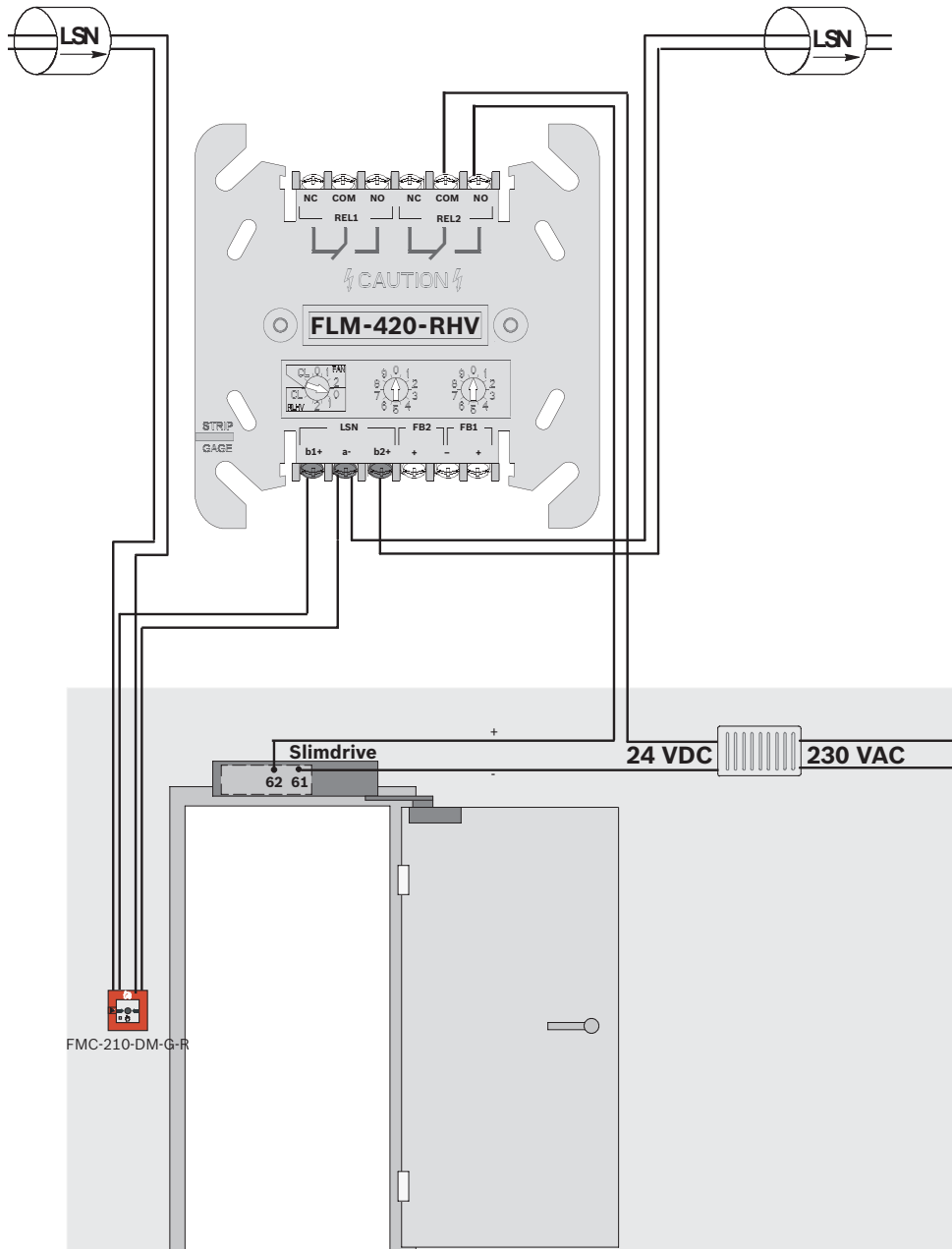
DIBT

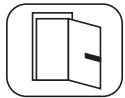




Slimdrive EMD-F/EMD F-IS

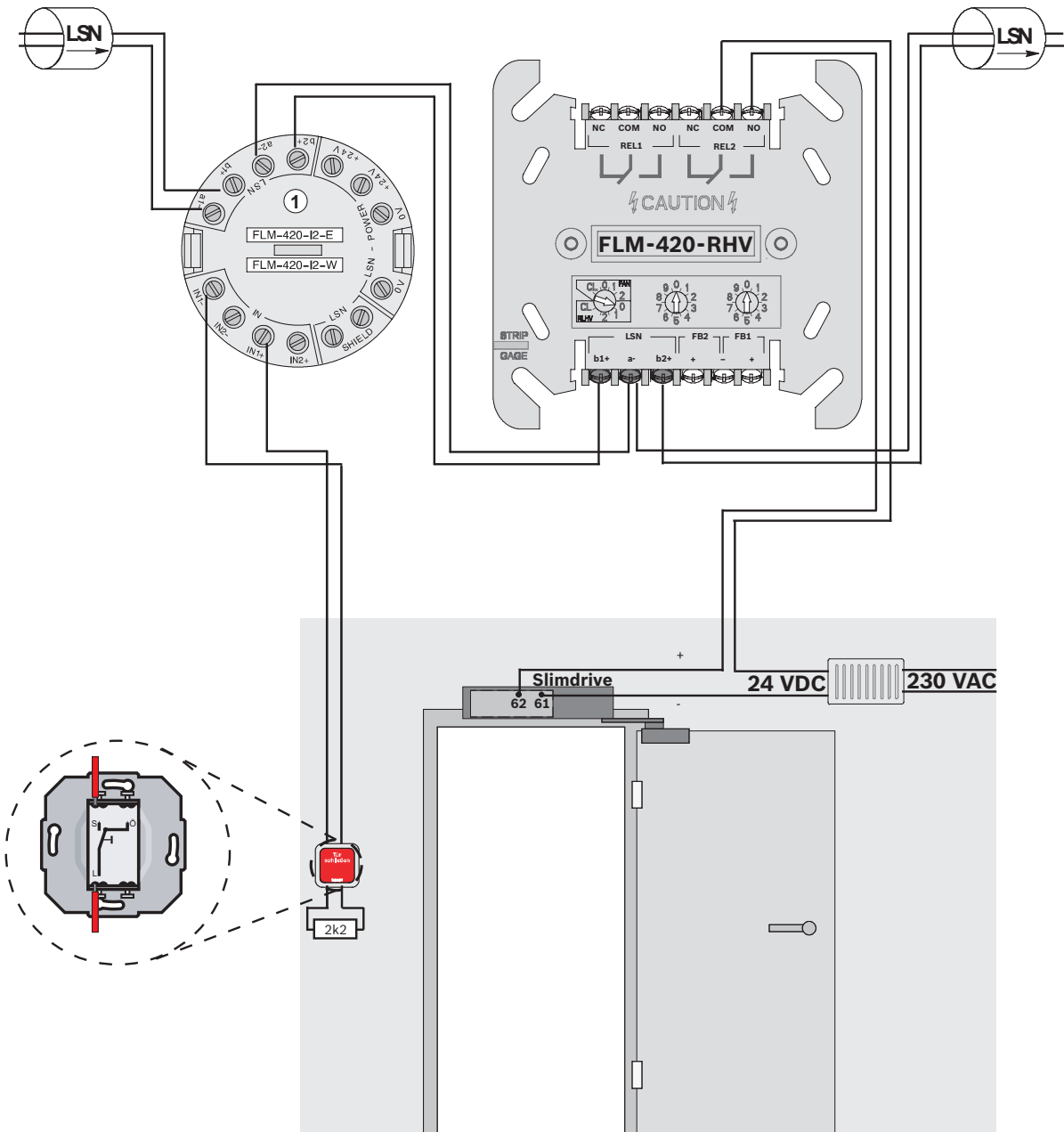
DIBT





Slimdrive EMD-F/EMD F-IS

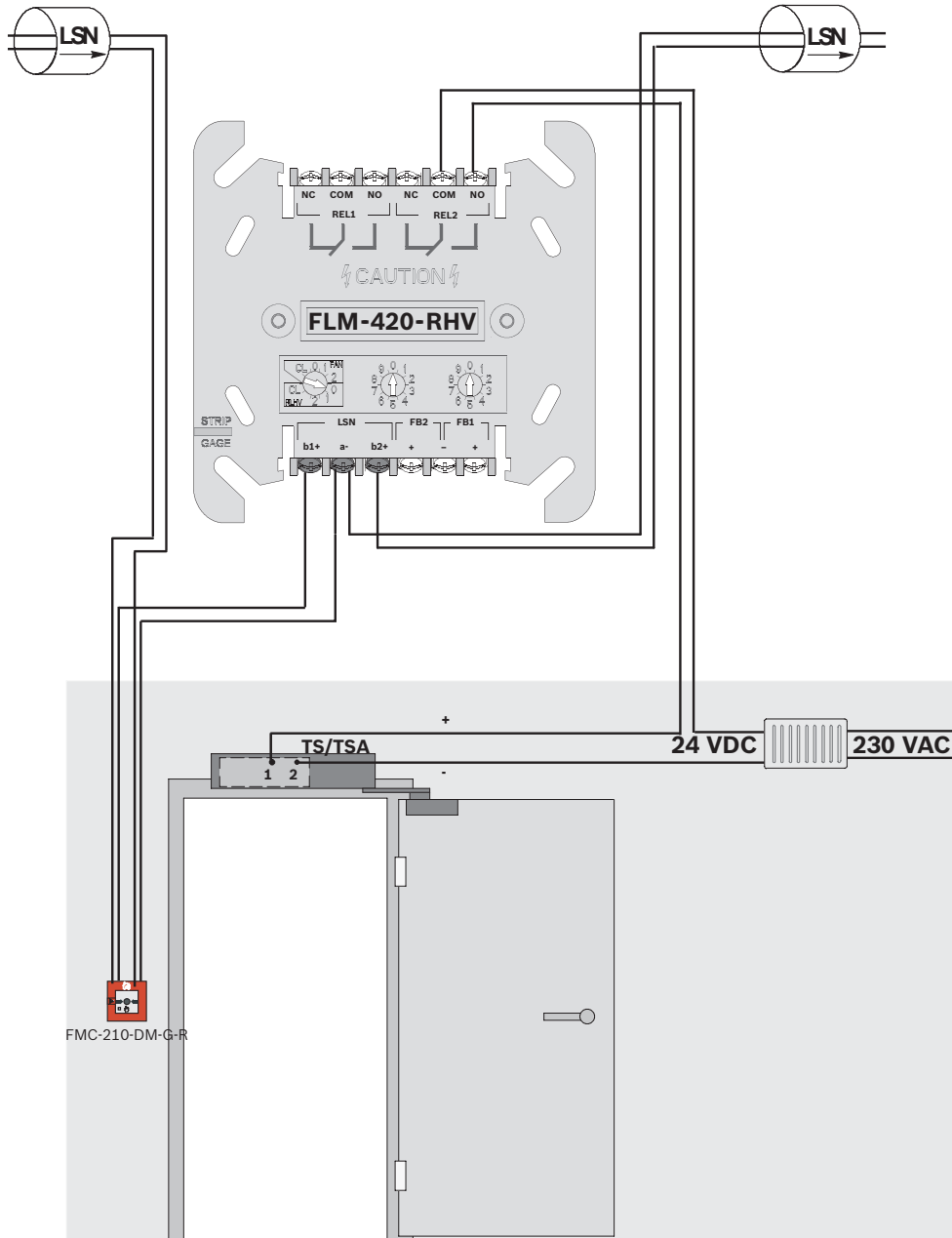
DIBT

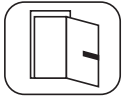




TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

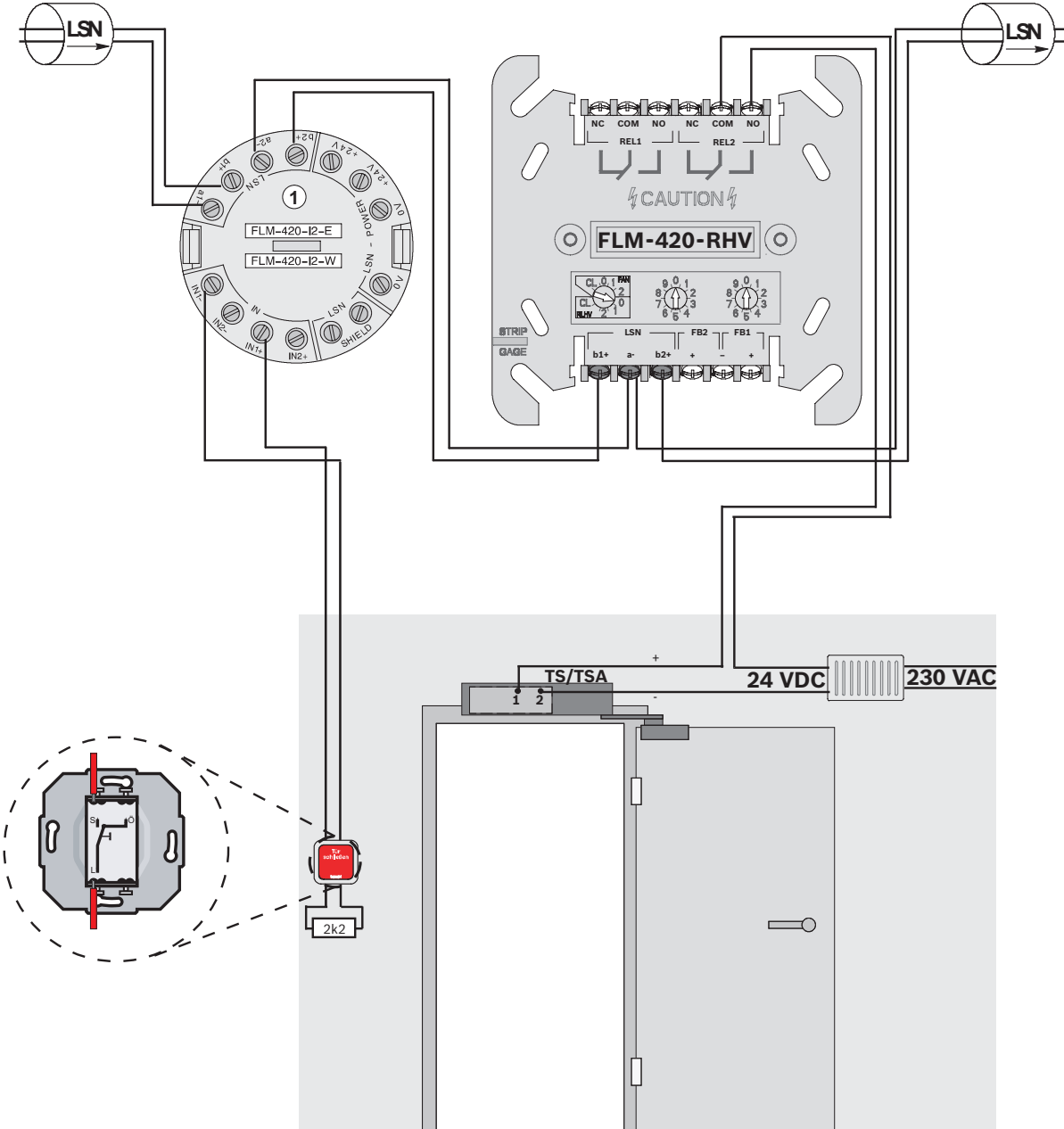
DIBT

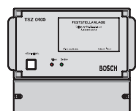




TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

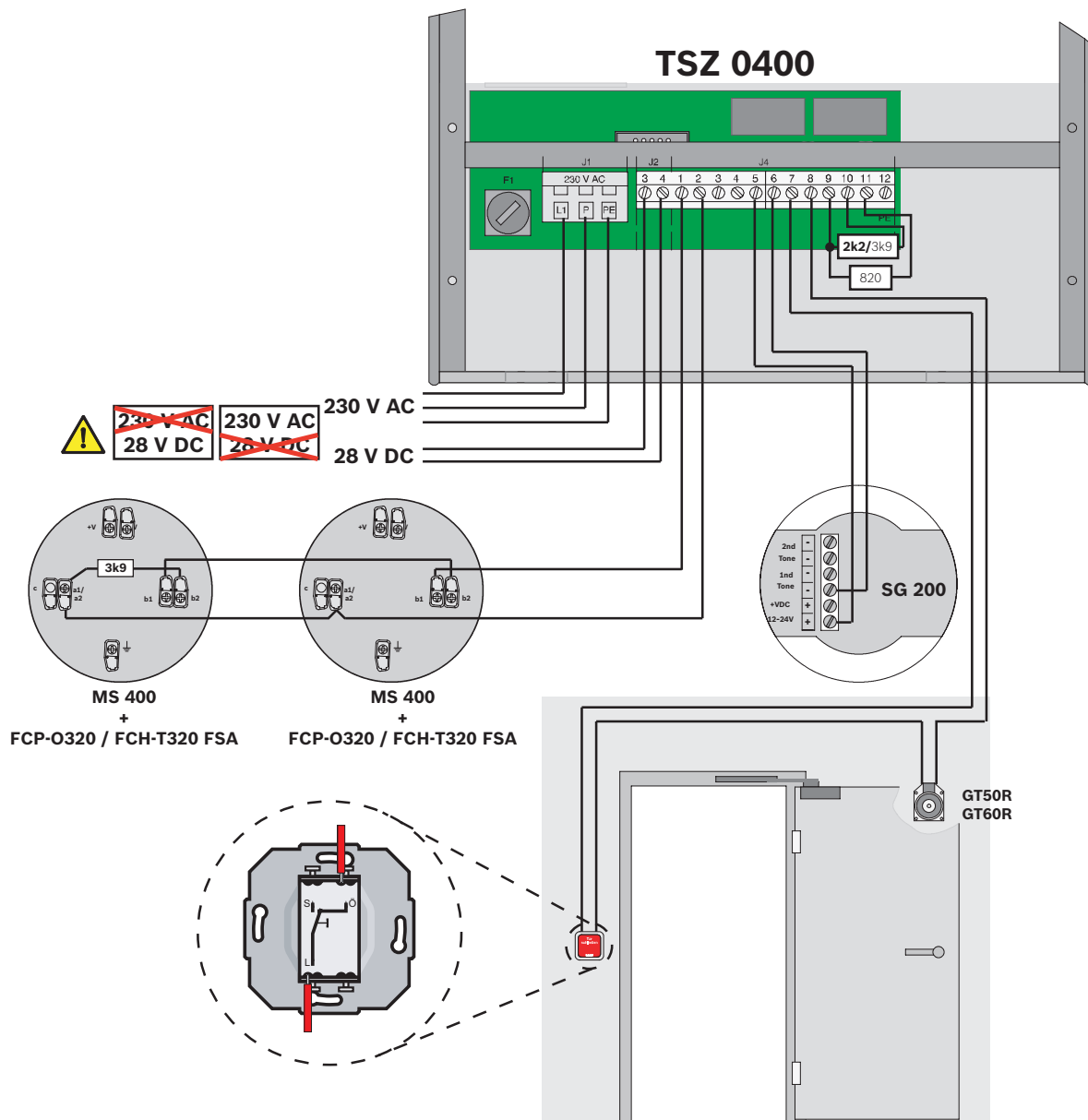
DIBT

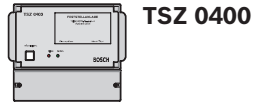




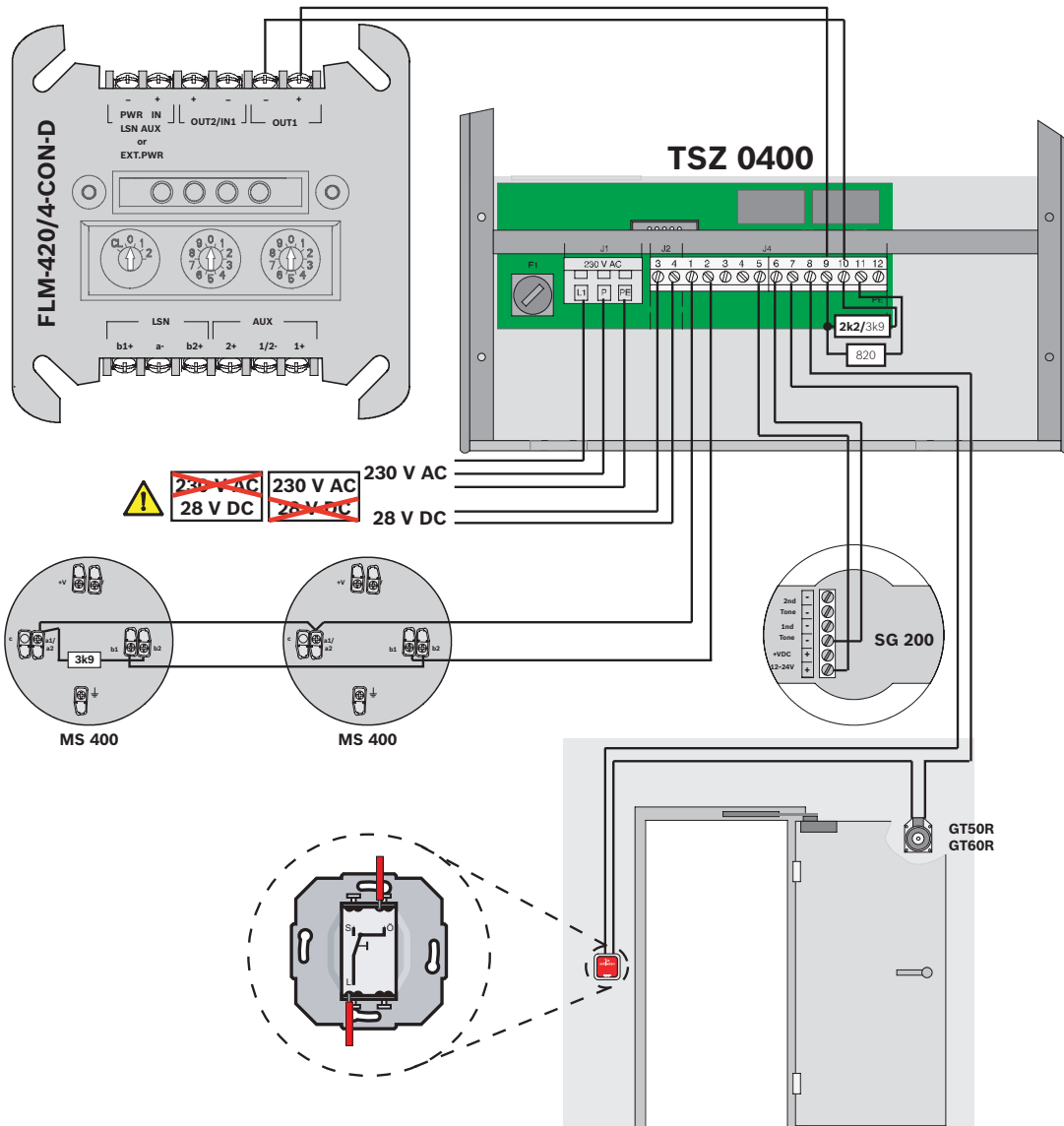
TSZ 0400

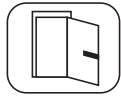
DIBT



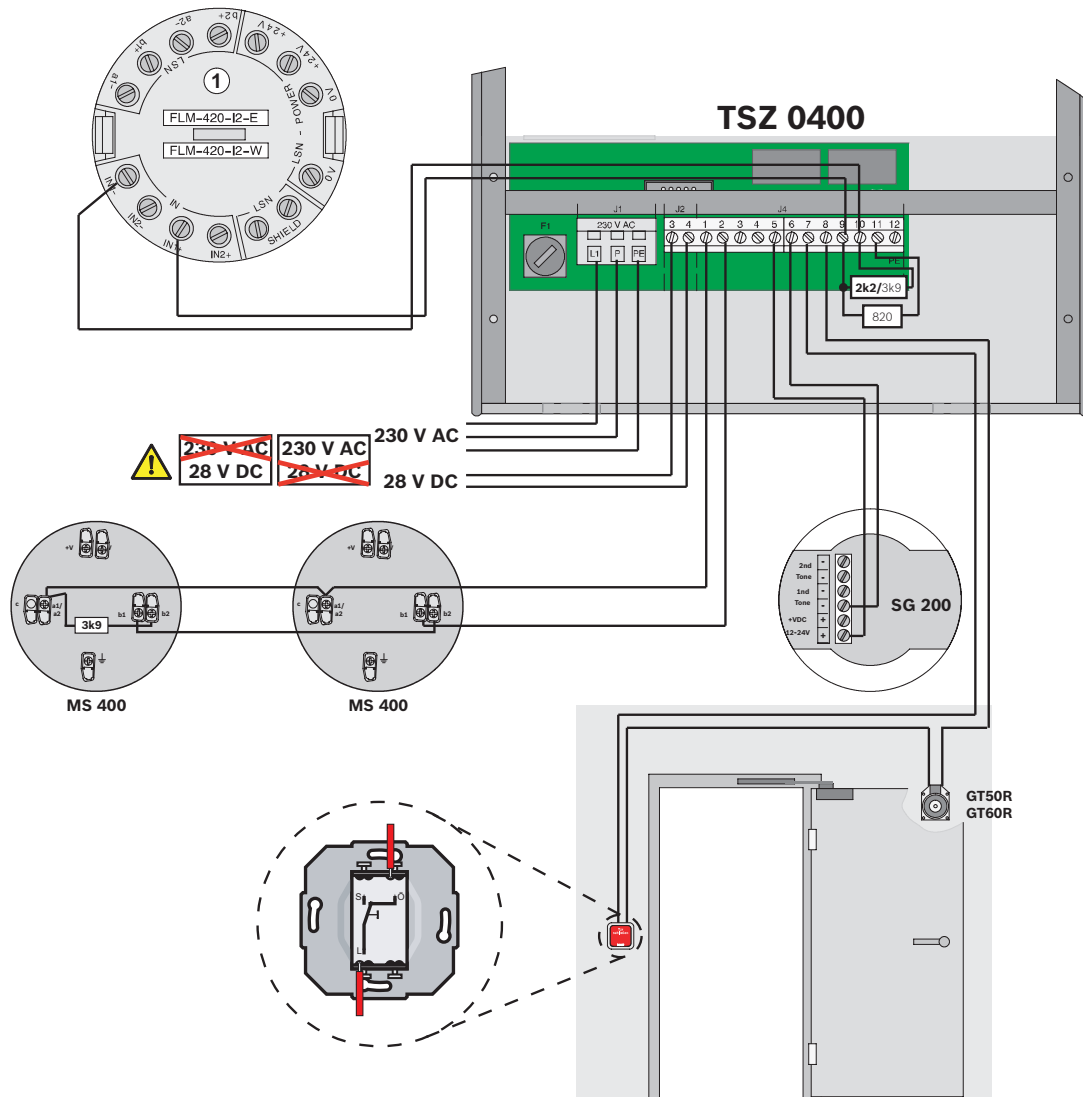


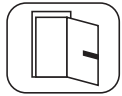
DIBT



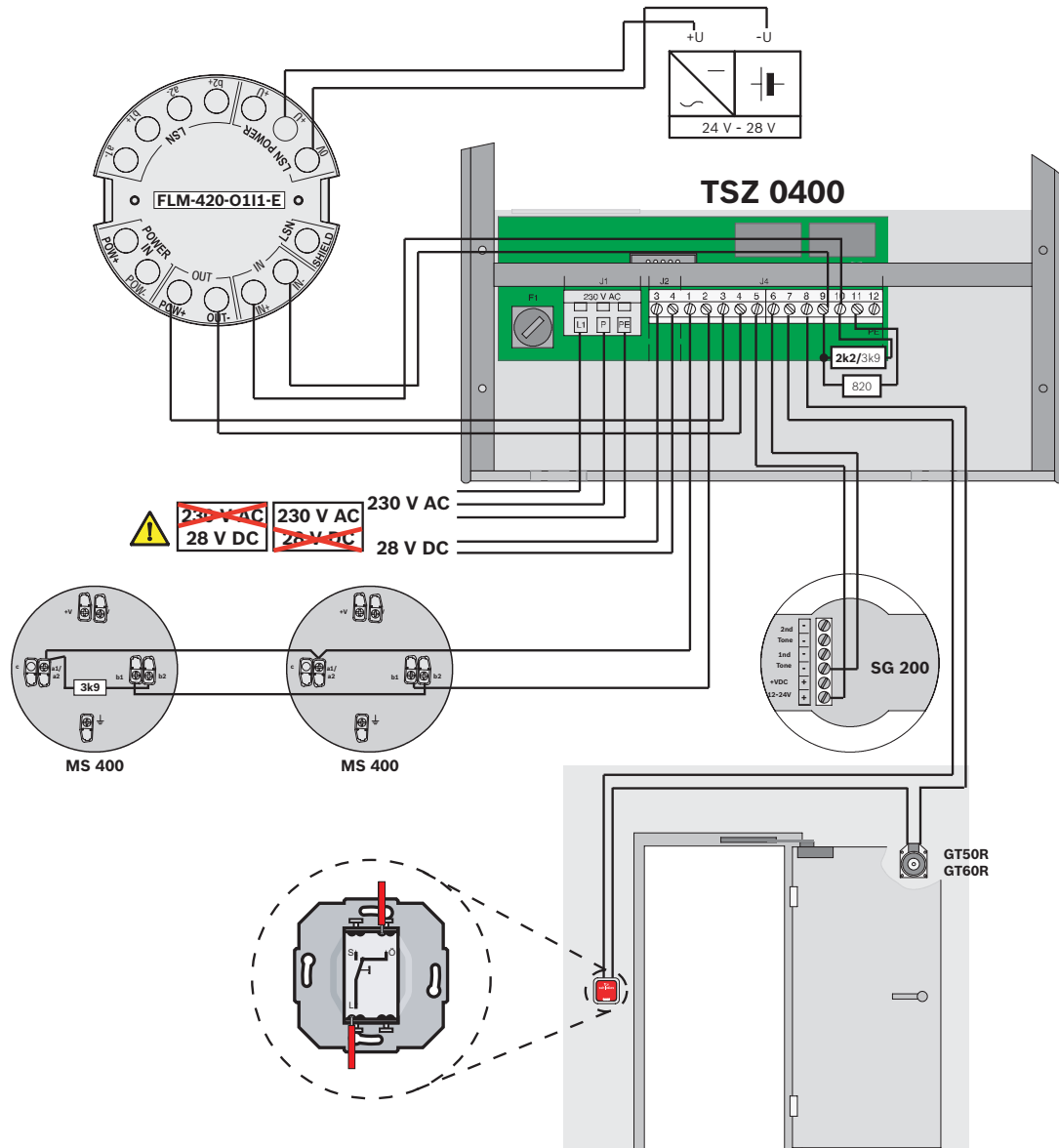


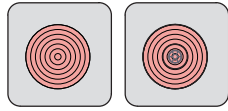
DIBT



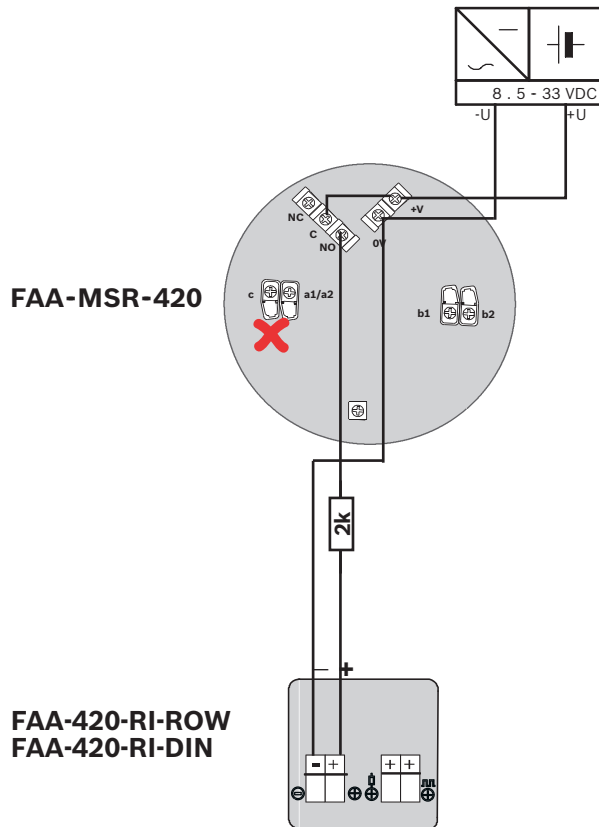
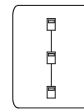


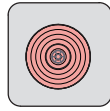
DIBT



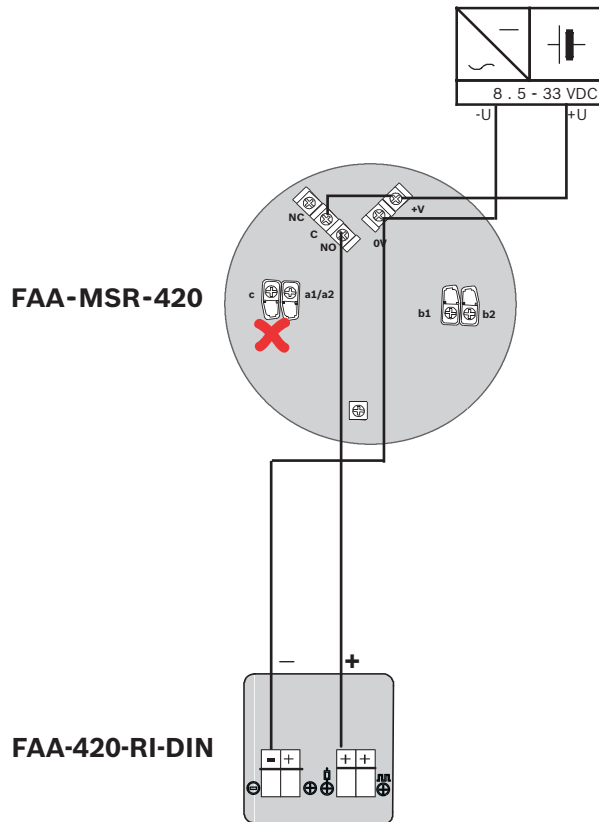
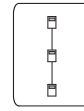


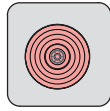
FAA-420-RI-ROW
FAA-420-RI-DIN



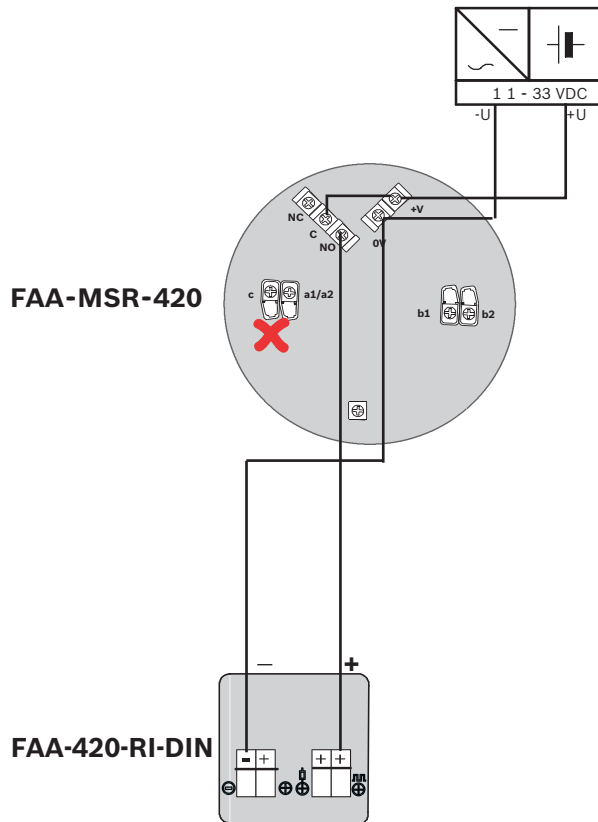
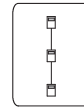


FAA-420-RI-DIN





FAA-420-RI-DIN



2.4

Functional Modules



BCM-000-B, stran 43

CZM 0004 A, stran 45

ENO 0000 A/B, stran 61

LSN 0300 A, stran 68

NZM 0002 A, stran 106

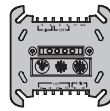
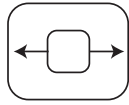
RMH 0002 A, stran 119

IOS 0020 A, stran 120

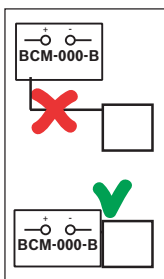
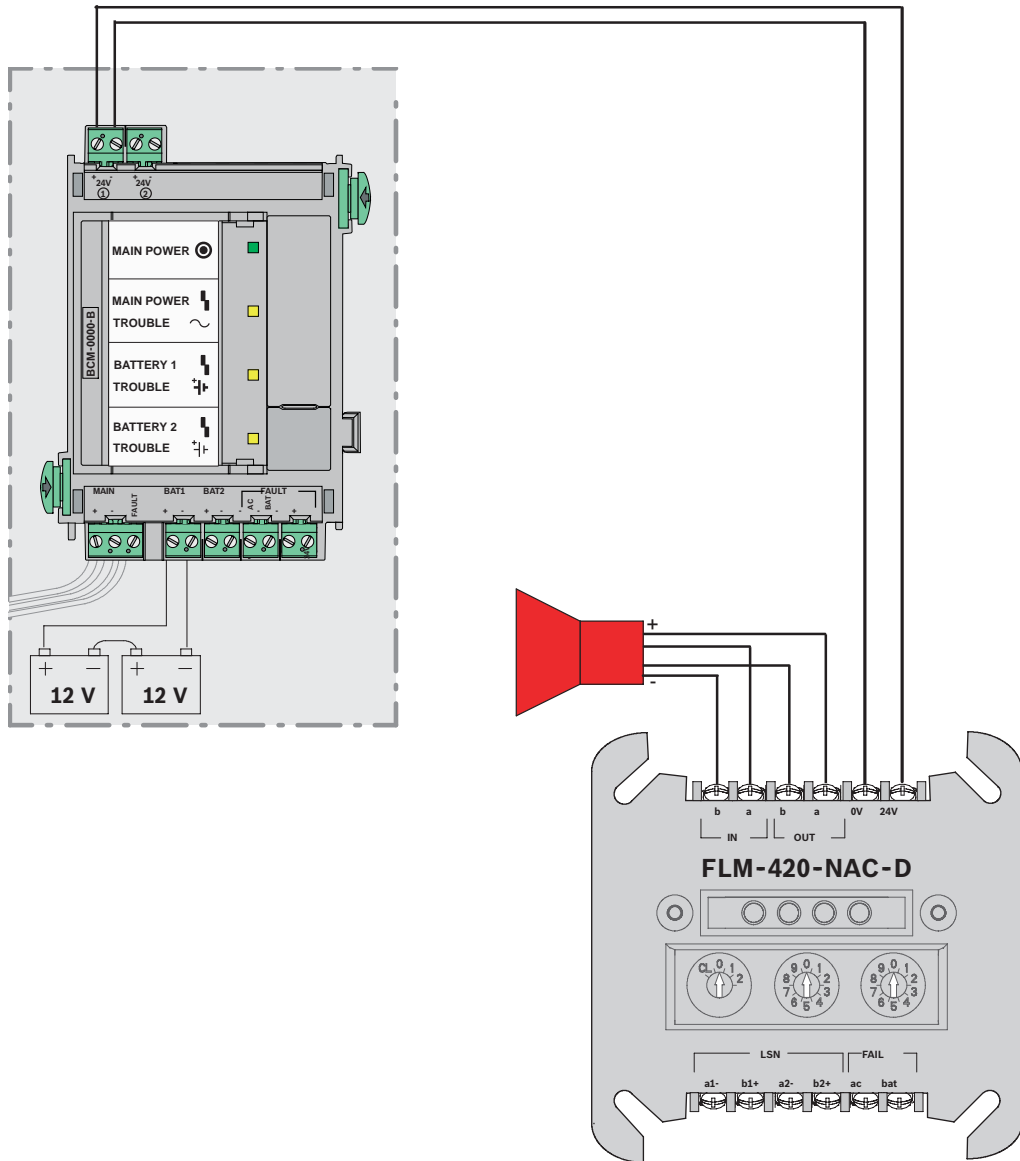
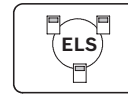
FPE-5000-UGM, stran 122

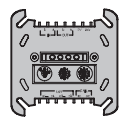
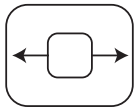
2.4.1

BCM-000-B

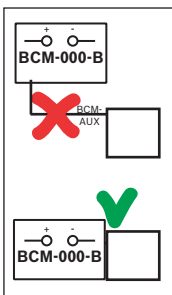
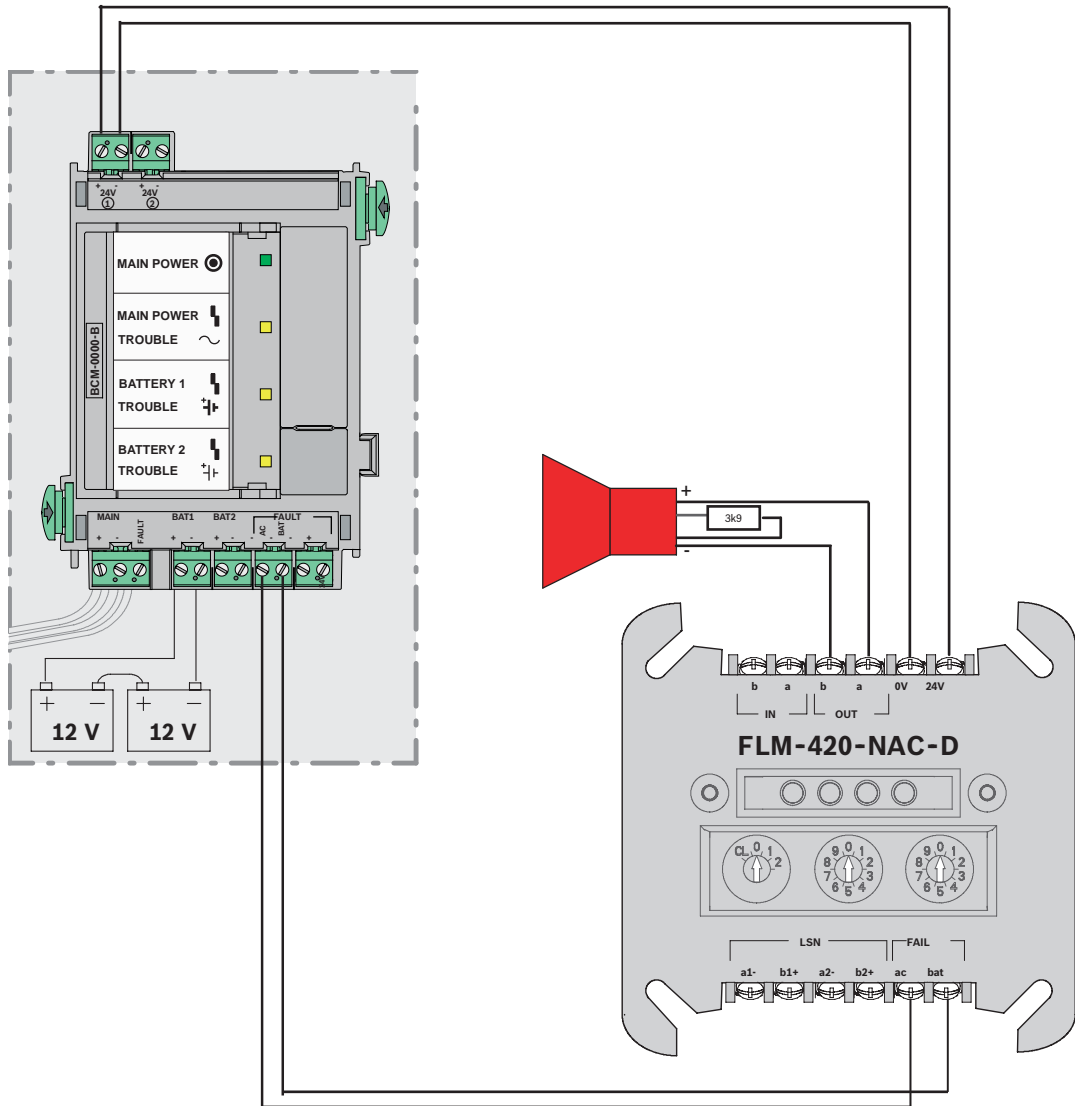
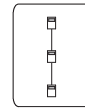


FLM-420-NAC-D





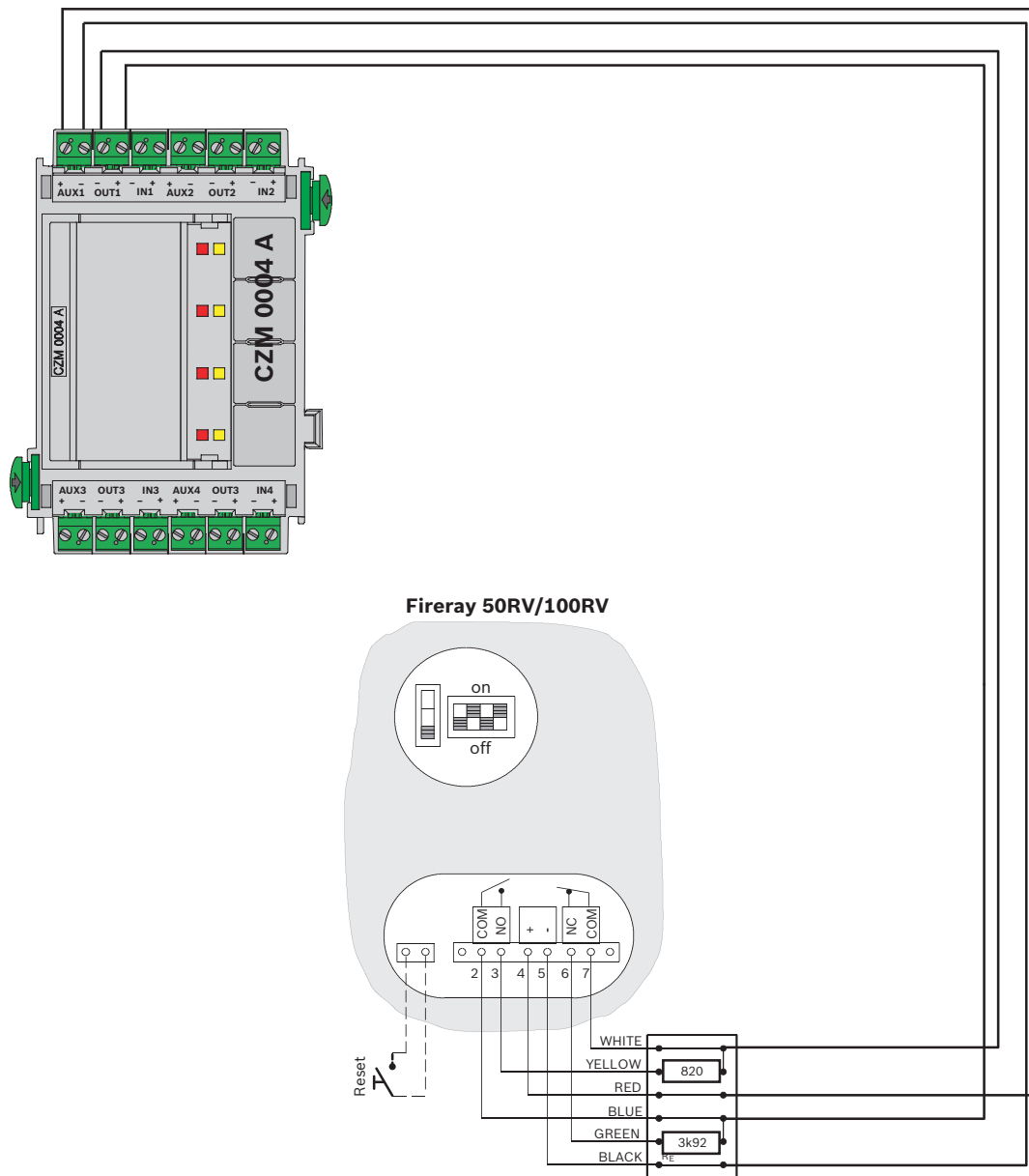
FLM-420-NAC-D



2.4.2 CZM 0004 A



Firearay 50RV
Firearay 100RV



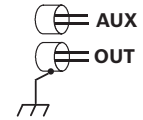
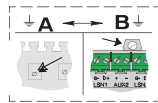
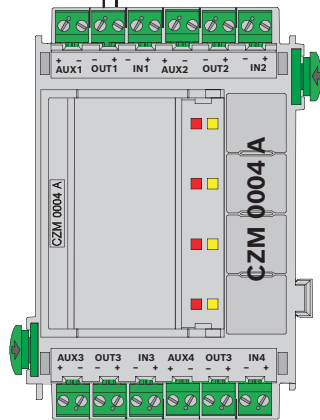


FIRERAY3000

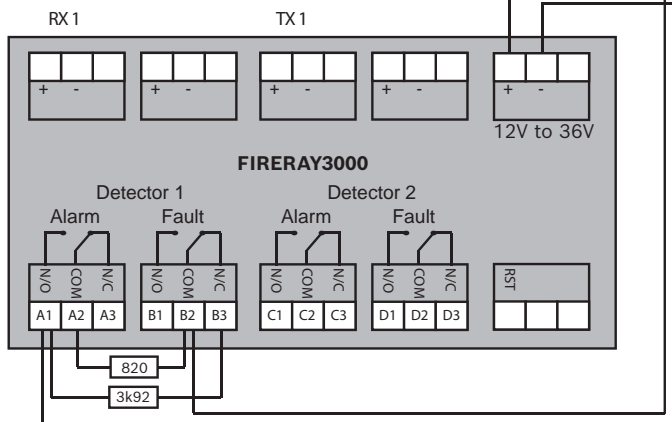
1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

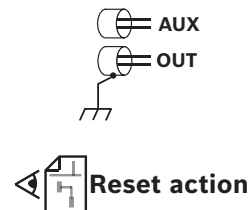
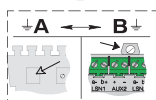
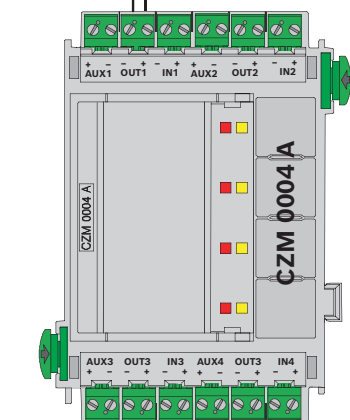




FIRERAY3000
2 x  **OUT1**



BCM-000-B
LSN 0300 A
LSN 1500 A

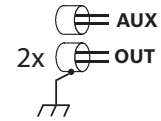
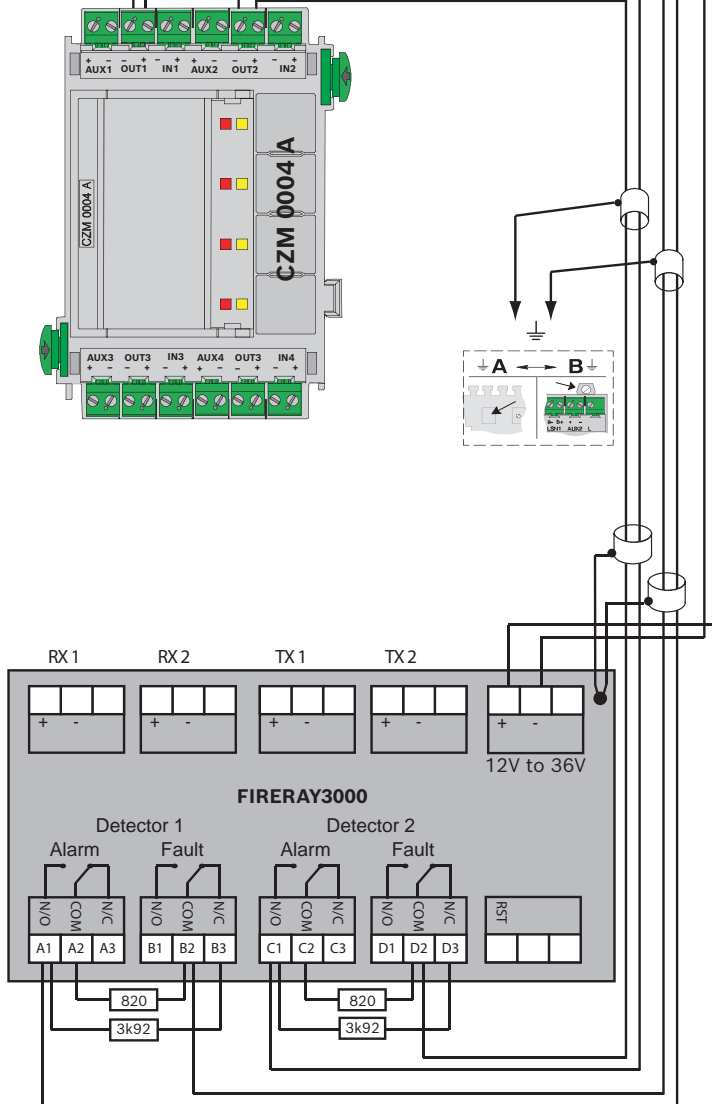




FIRERAY3000
2 x **OUT1+2**



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

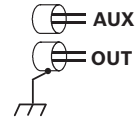
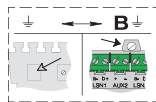
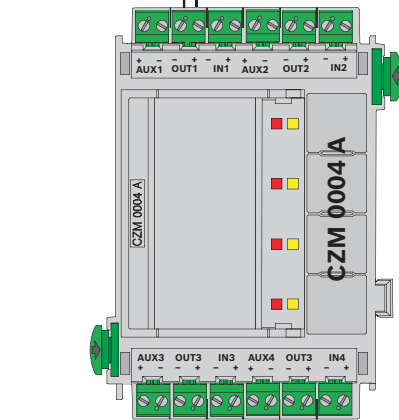


FIRERAY5000

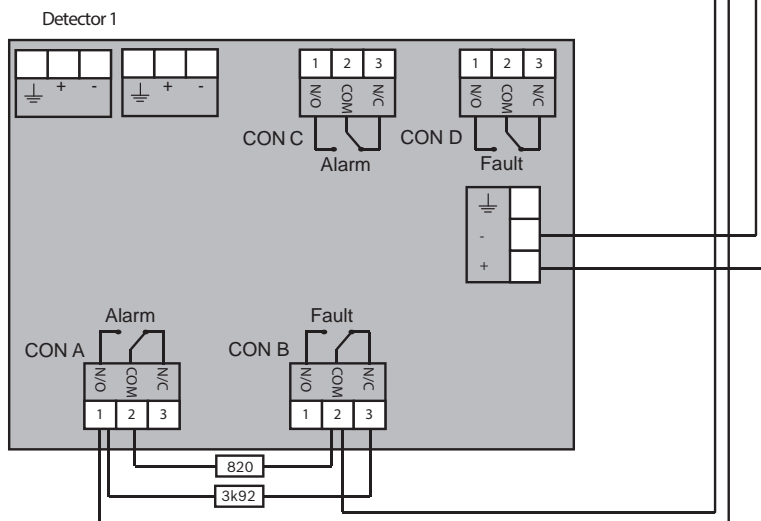
1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action



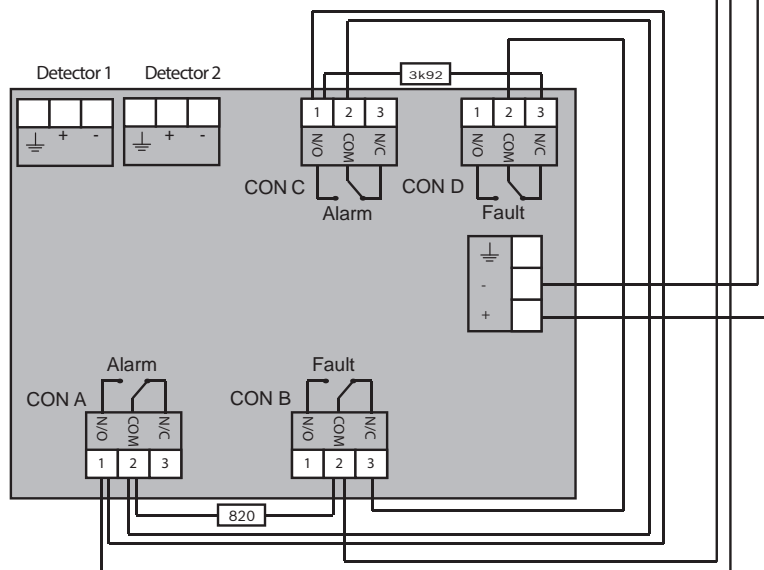
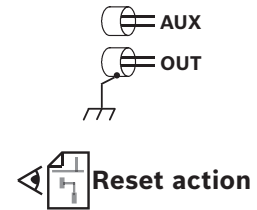
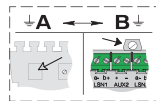
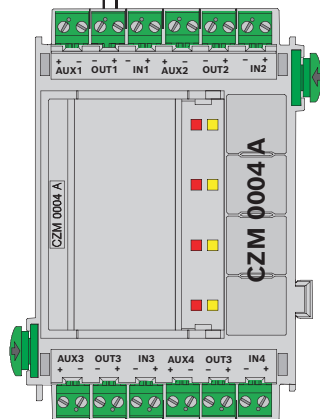


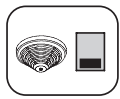
FIRERAY5000

2 x OUT1

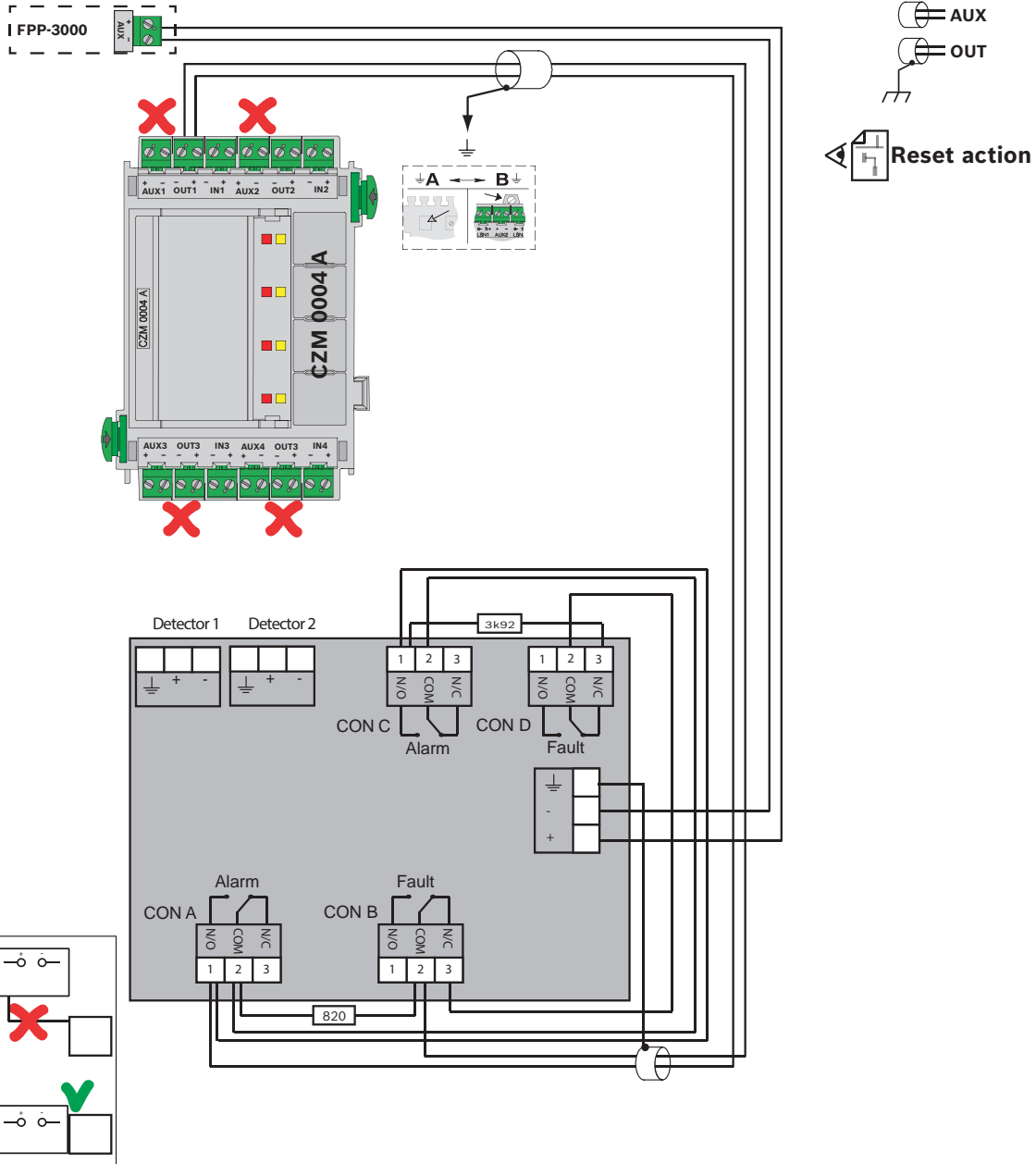


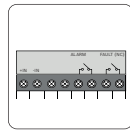
BCM-0000-B
LSN 0300 A
LSN 1500 A



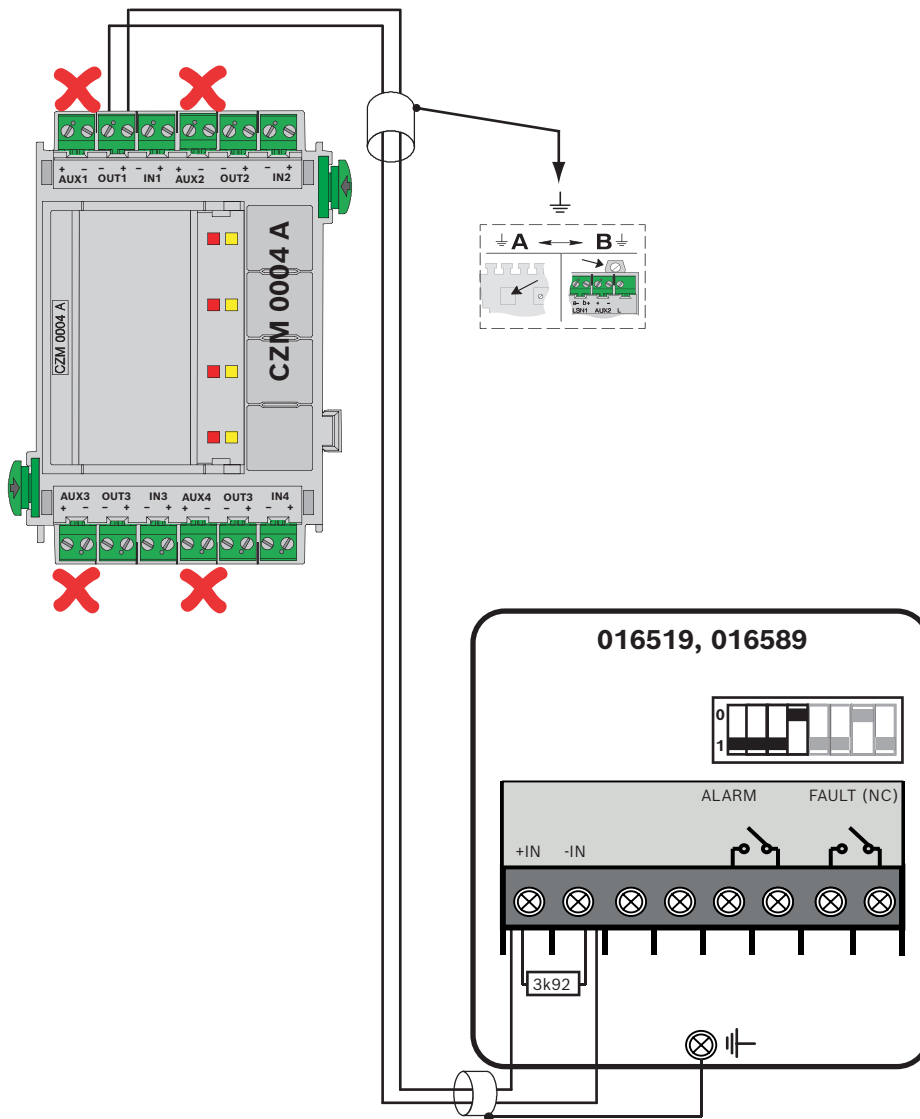
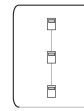


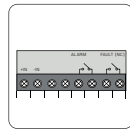
FIRERAY5000
2 x  **OUT1**



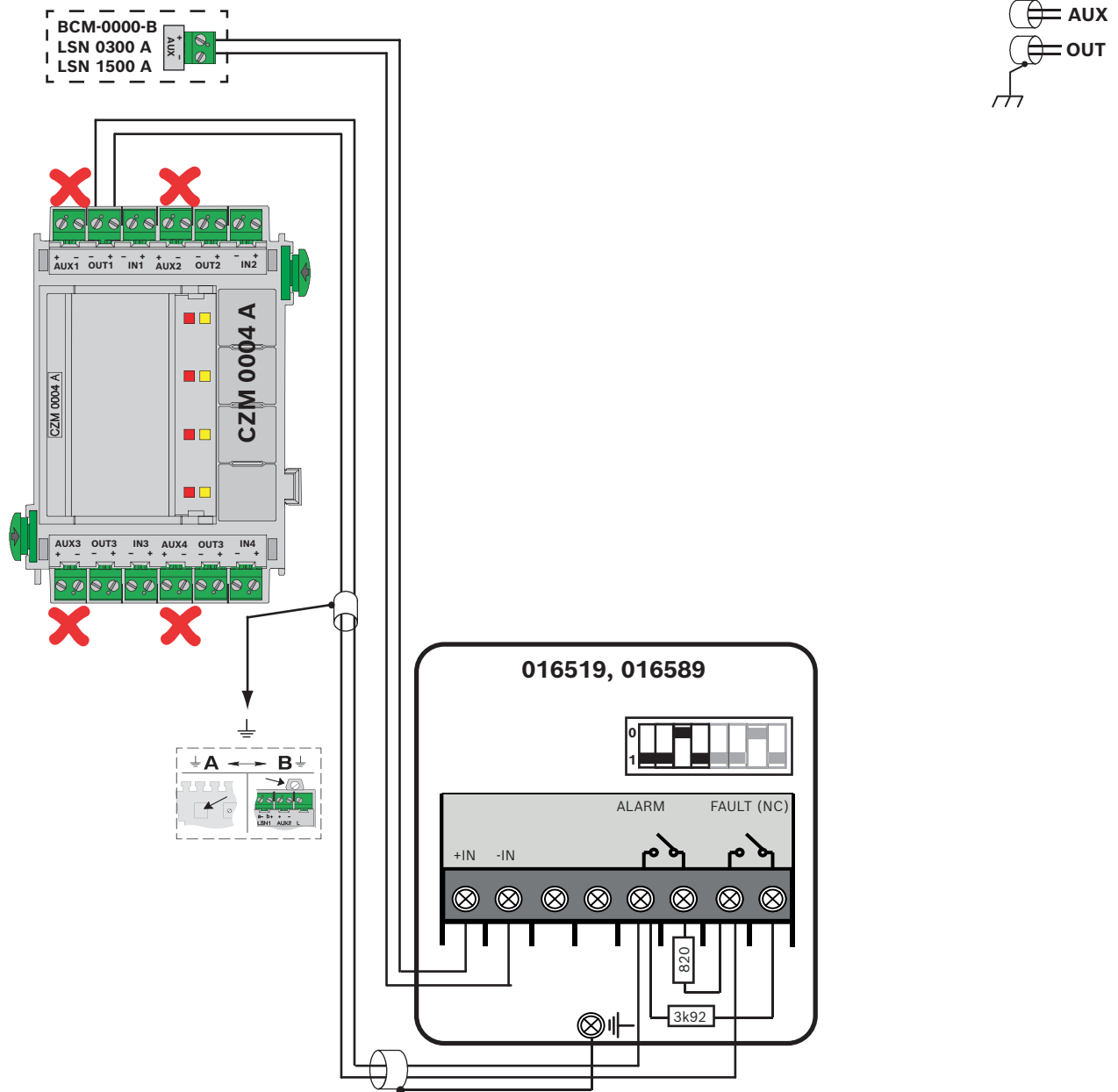
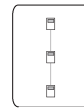


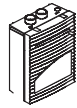
016519, 016589
IR3 Flame Detector



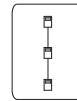


**016519, 016589
IR3 Flame Detector**

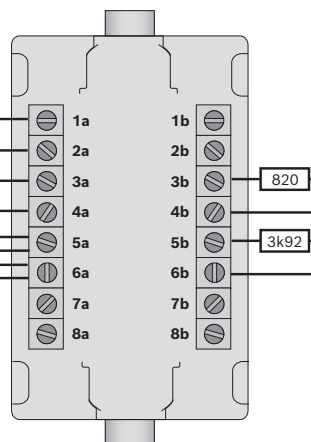
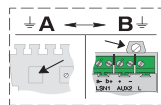
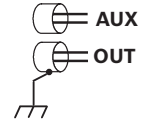
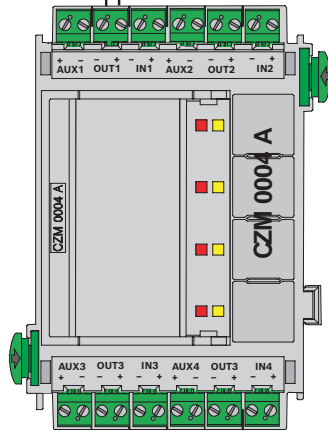


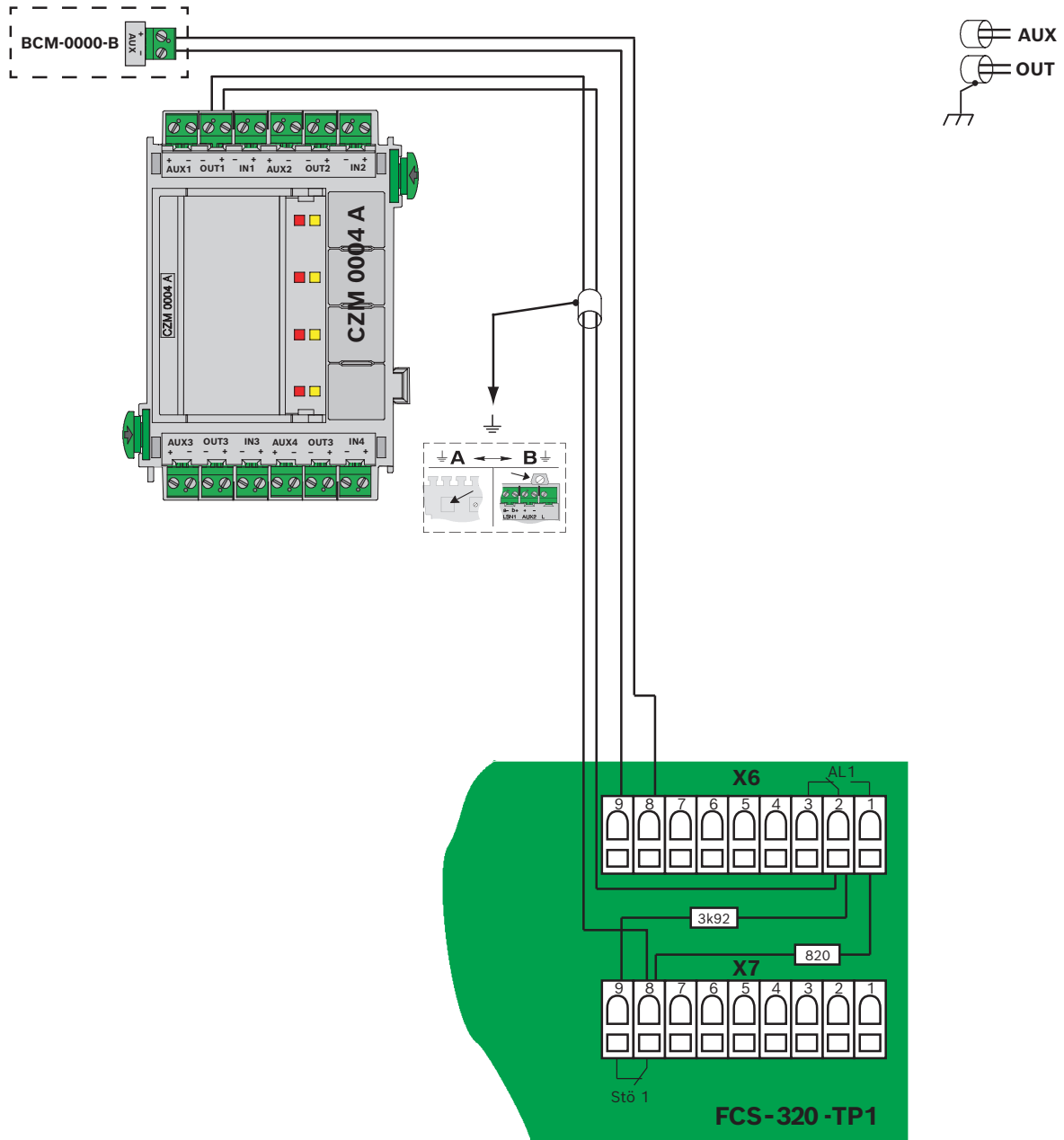
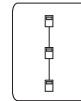
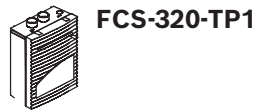


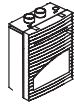
FCS-320-TM Series



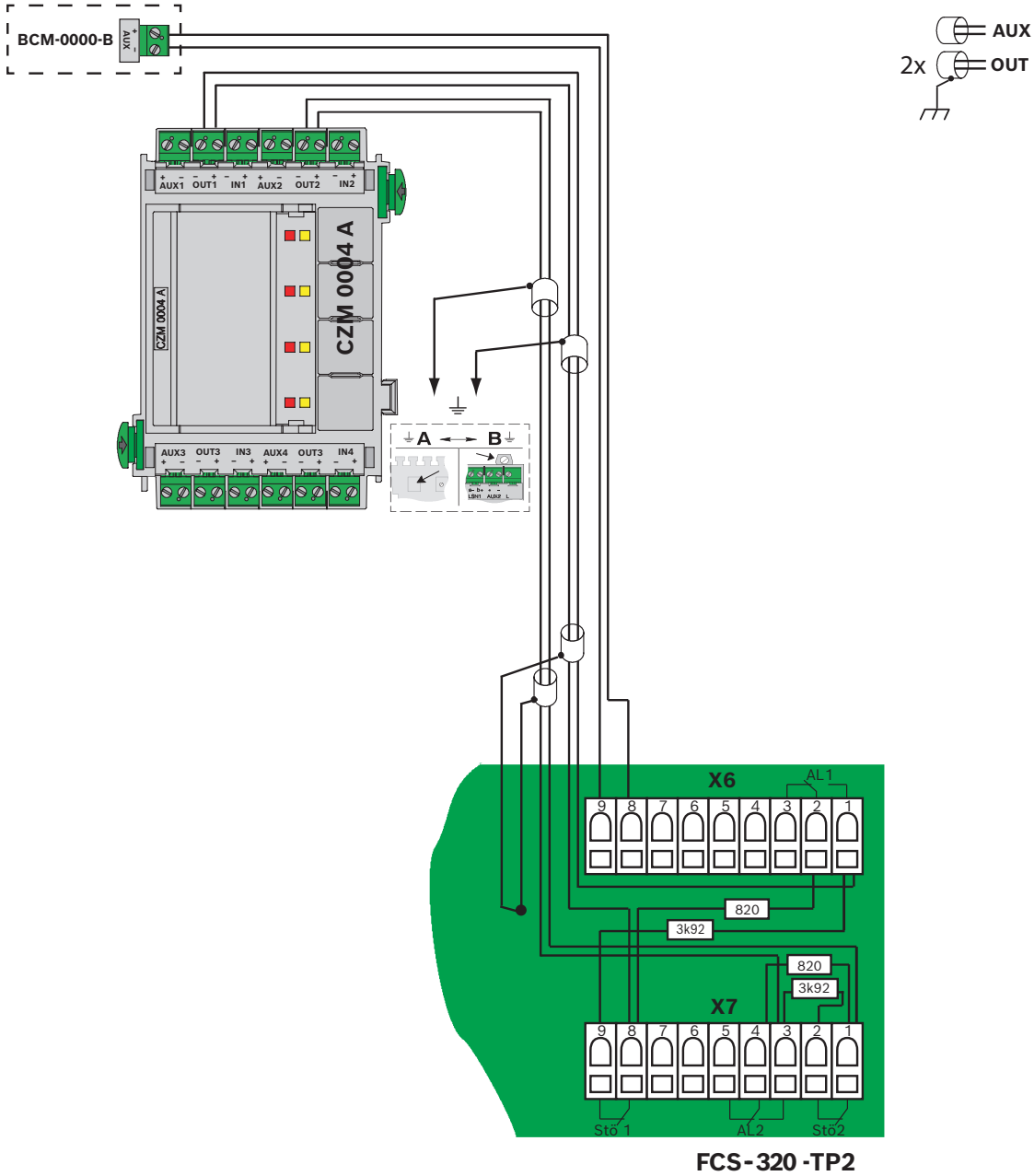
BCM-0000-B
LSN 0300 A
LSN 1500 A





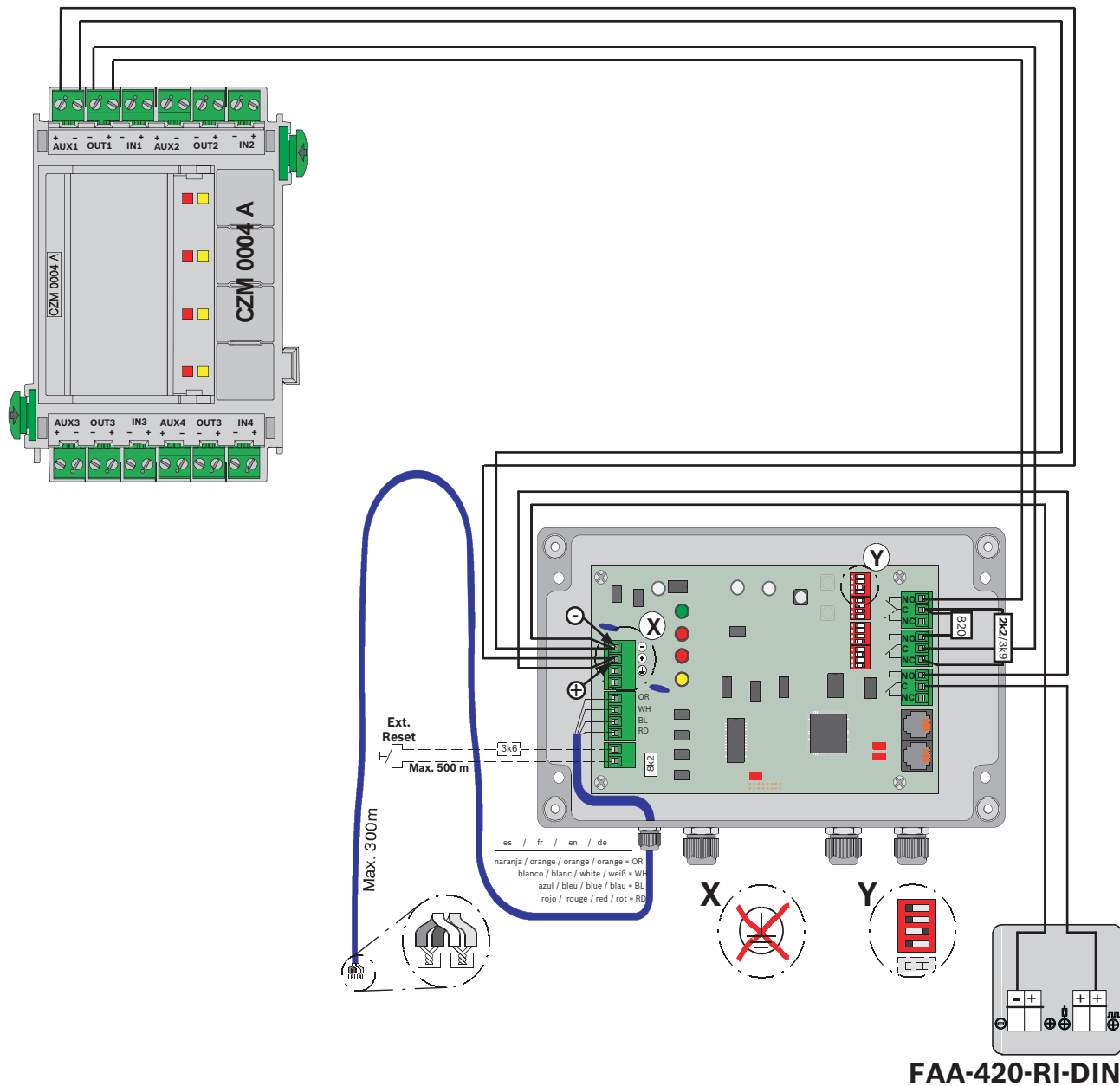


FCS-320-TP2



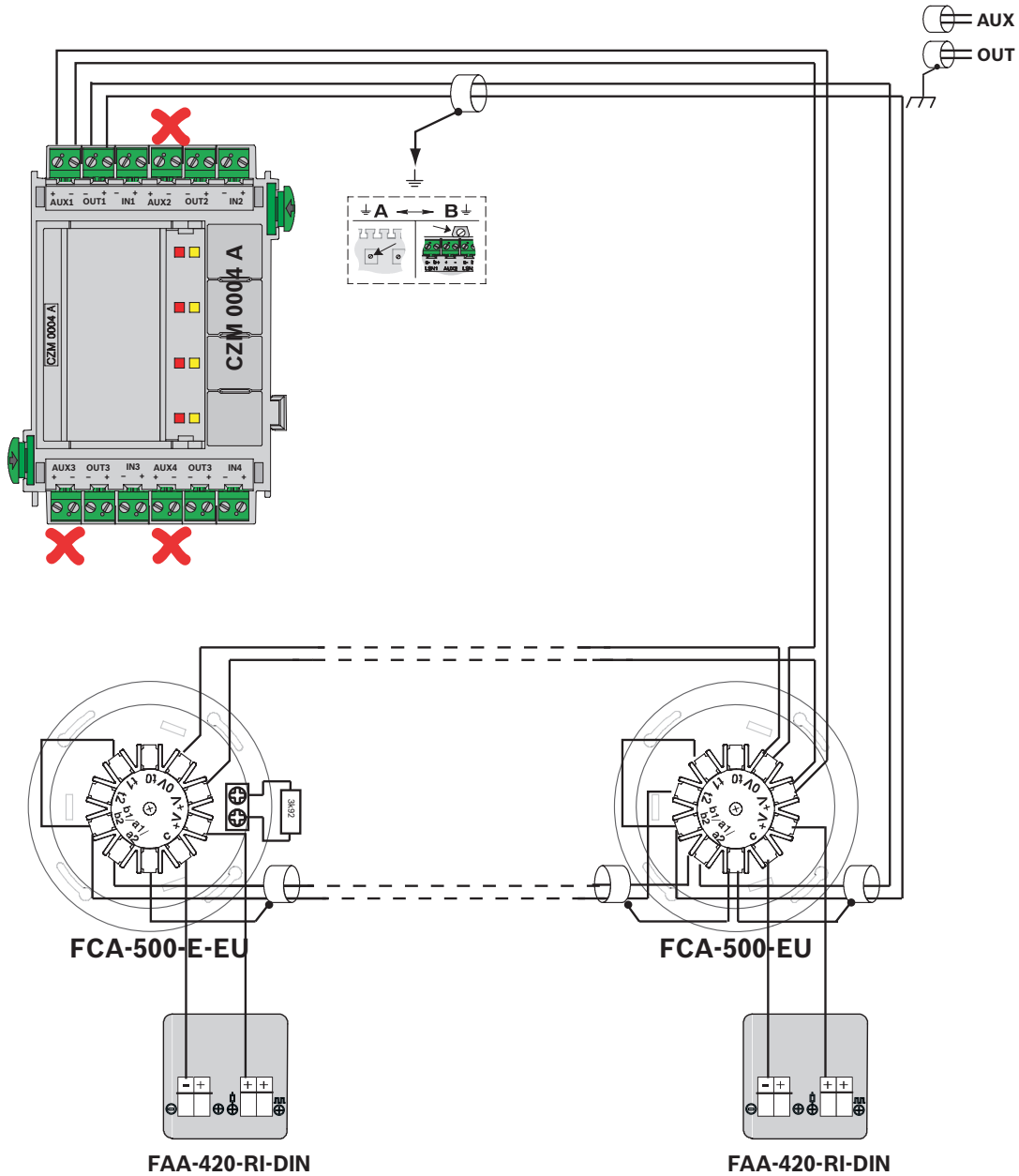


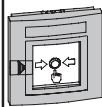
FCS-LWM-1



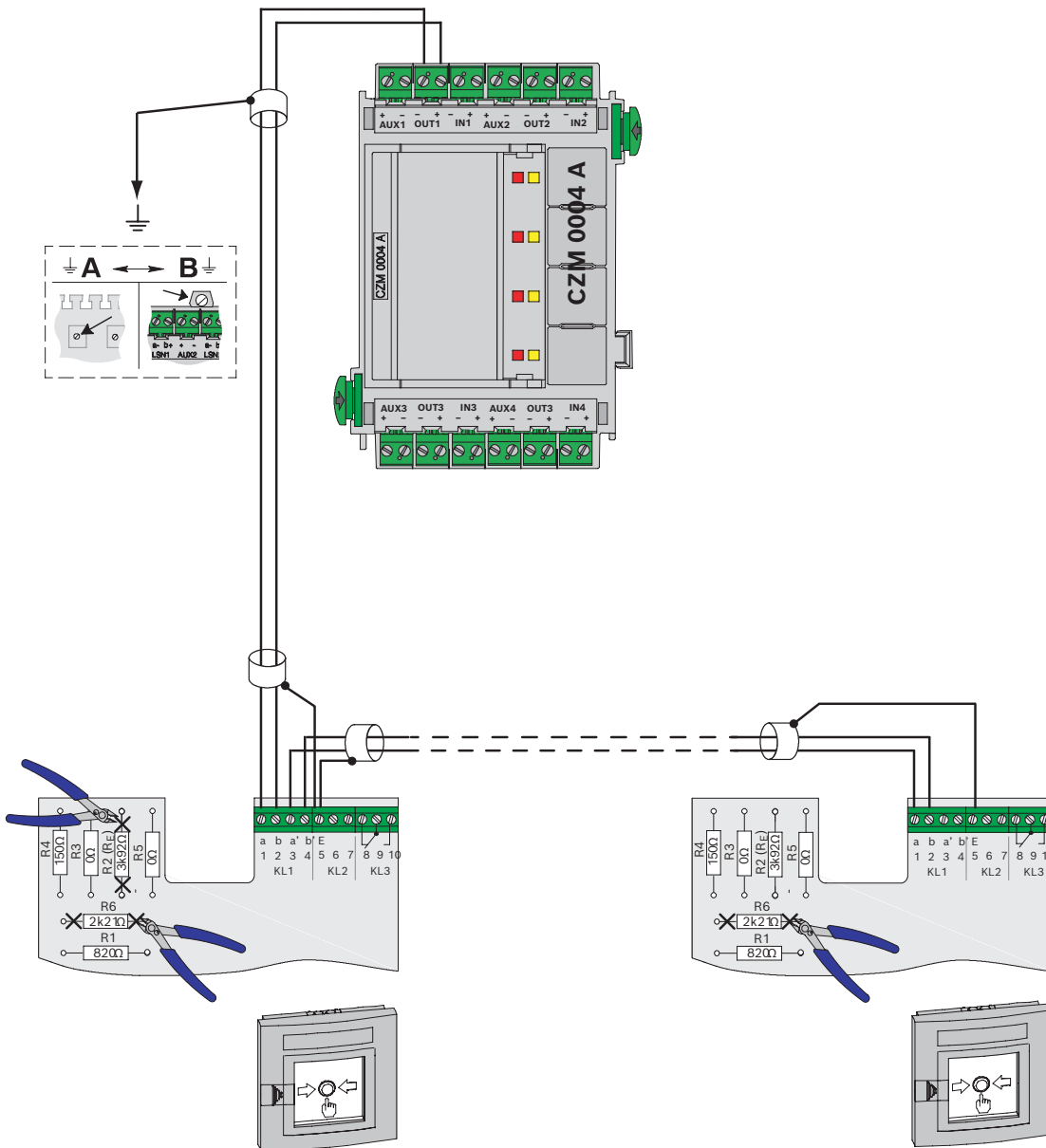
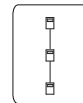


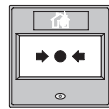
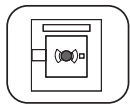
FCA-500-EU
 FCP-O 500
 FCP-O 500-P
 FCP-OC 500
 FCP-OC 500-P



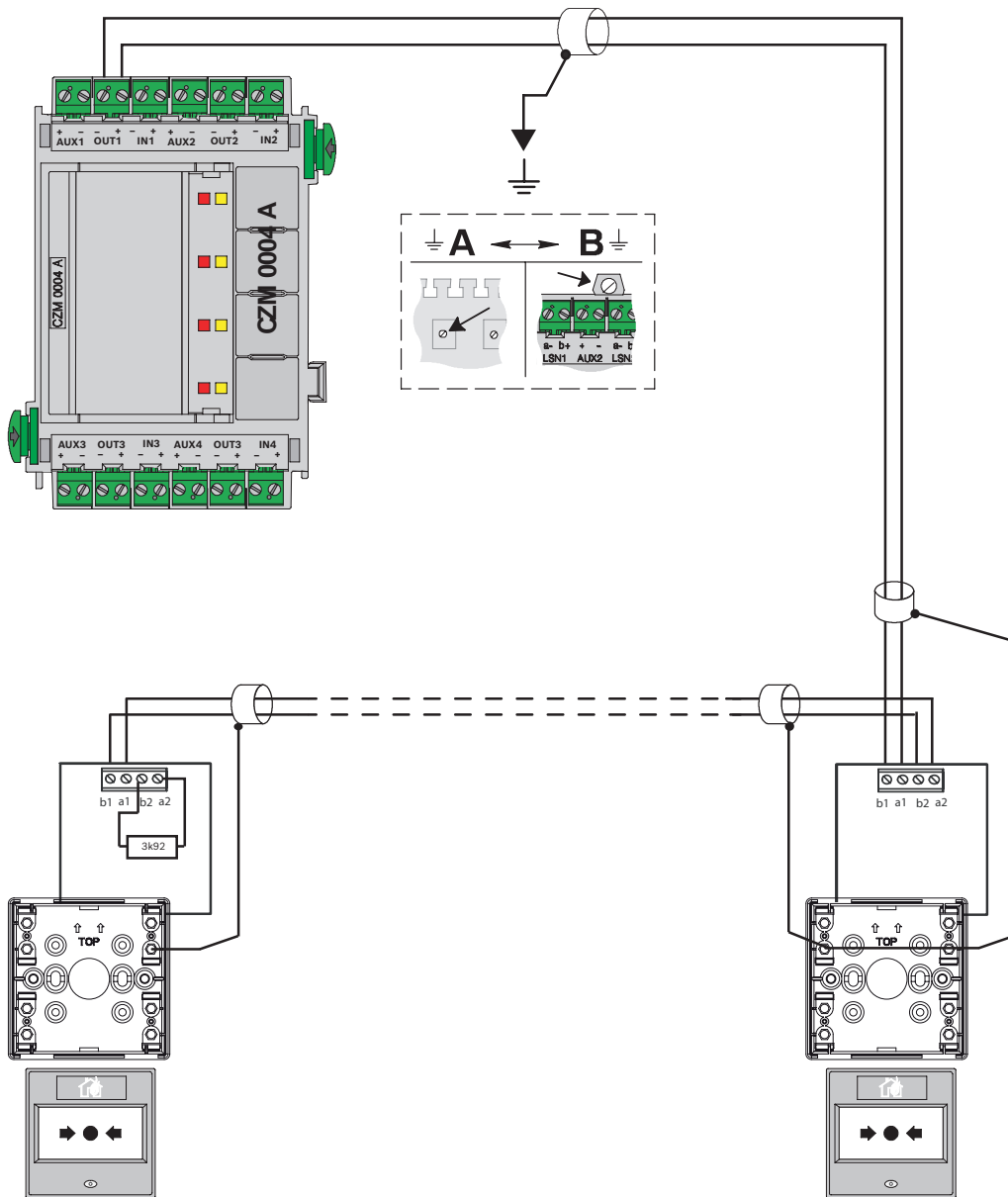
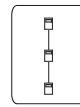


FMC-120-DKM-G-R
FMC-120-DKM-H-R
FMC-120-DKM-G-B
FMC-120-DKM-H-B
FMC-120-DKM-G-Y





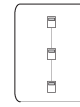
FMC-300RW-GSGBU
FMC-300RW-GSRBU
FMC-300RW-GSGRD
FMC-300RW-GSRRD
FMC-300RW-GSGYE
FMC-300RW-GSRYE



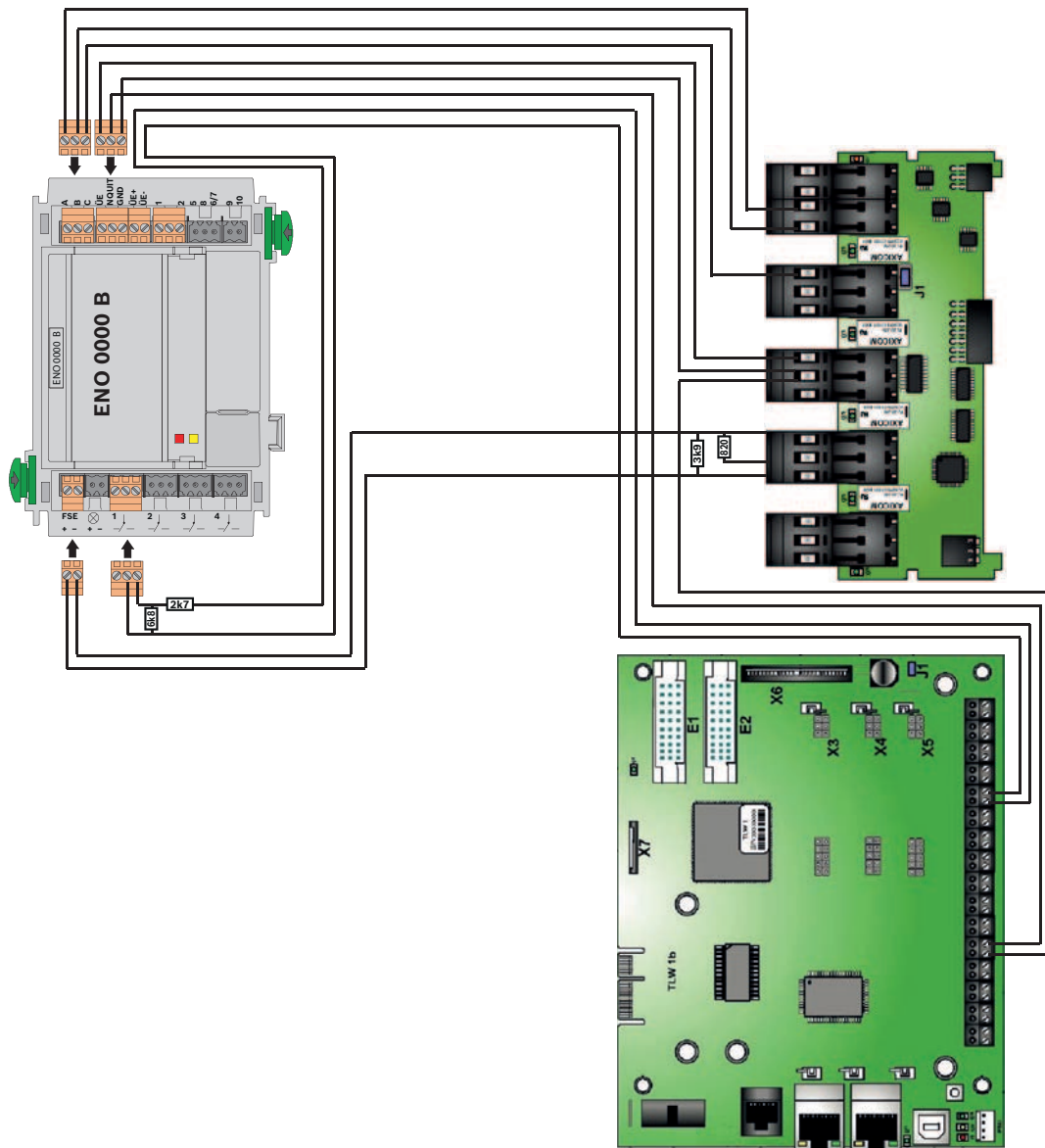
2.4.3 ENO 0000 A/B

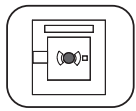


AT5000 IP/GPRS

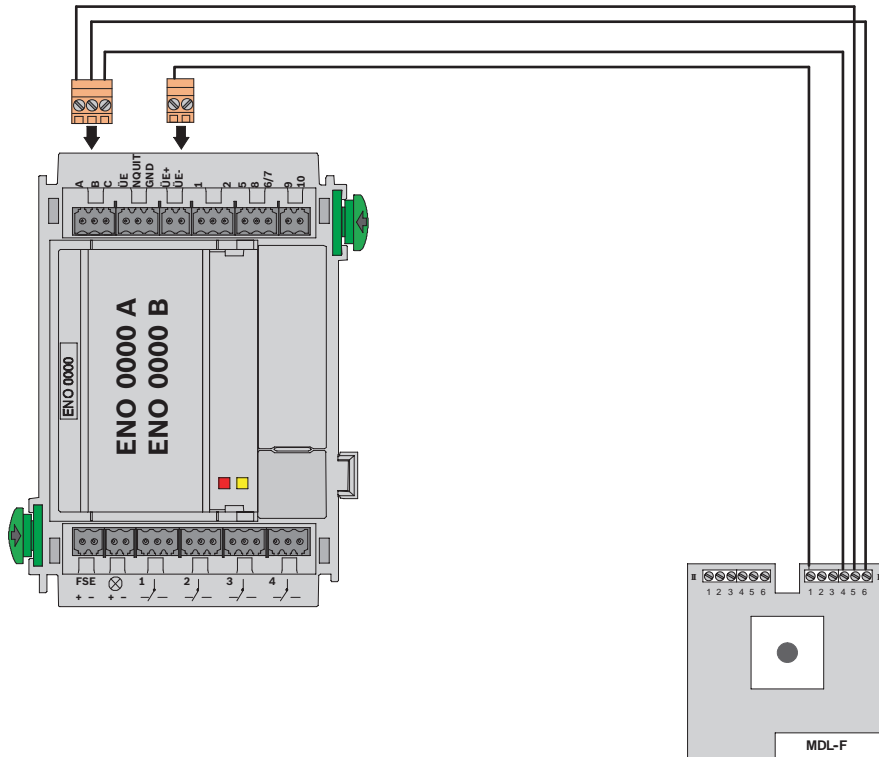


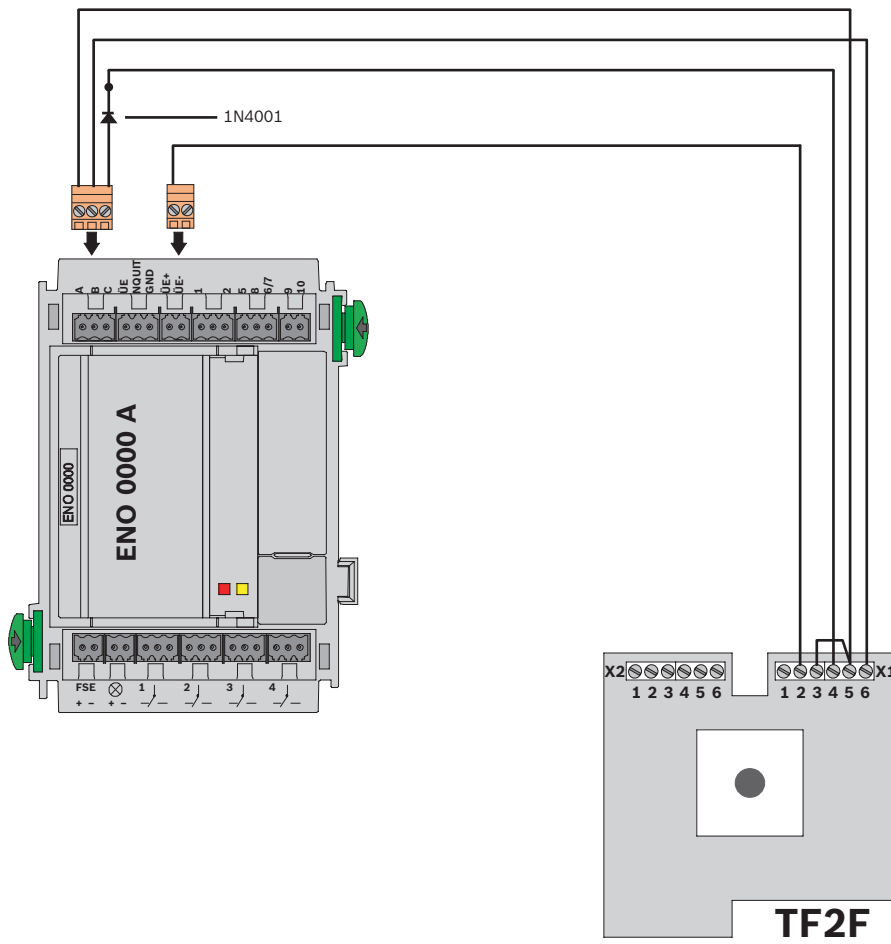
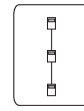
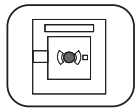
EN 54-2

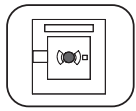




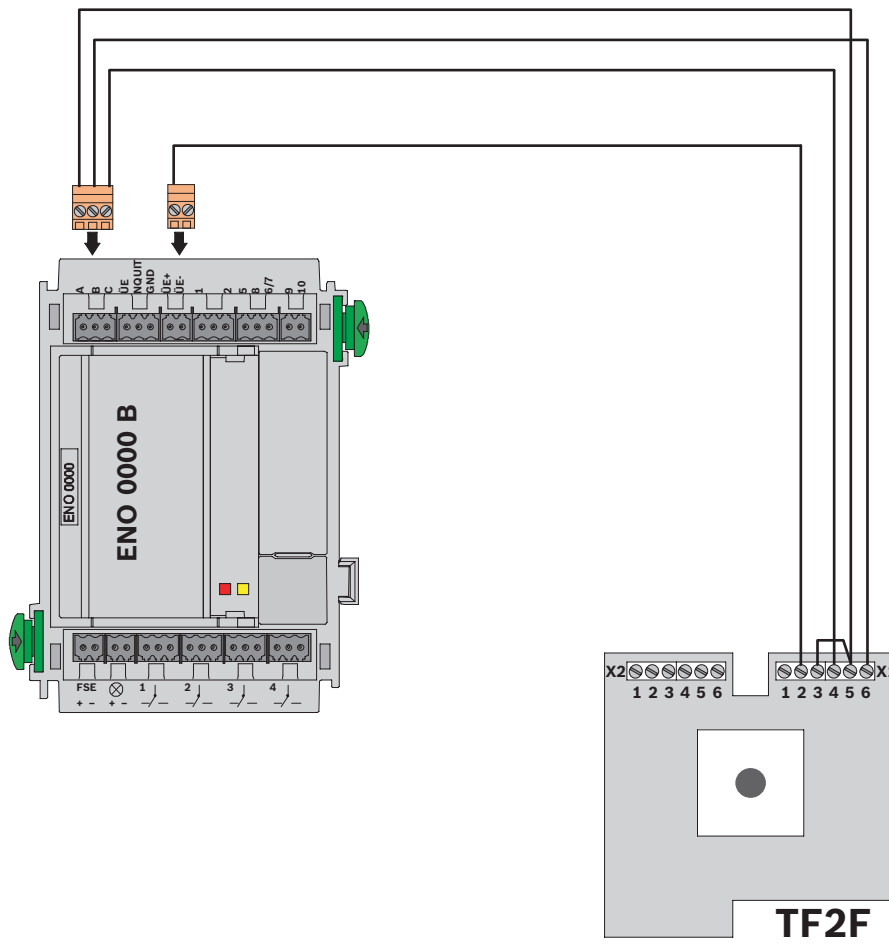
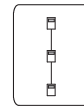
MDL-F

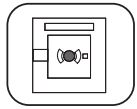




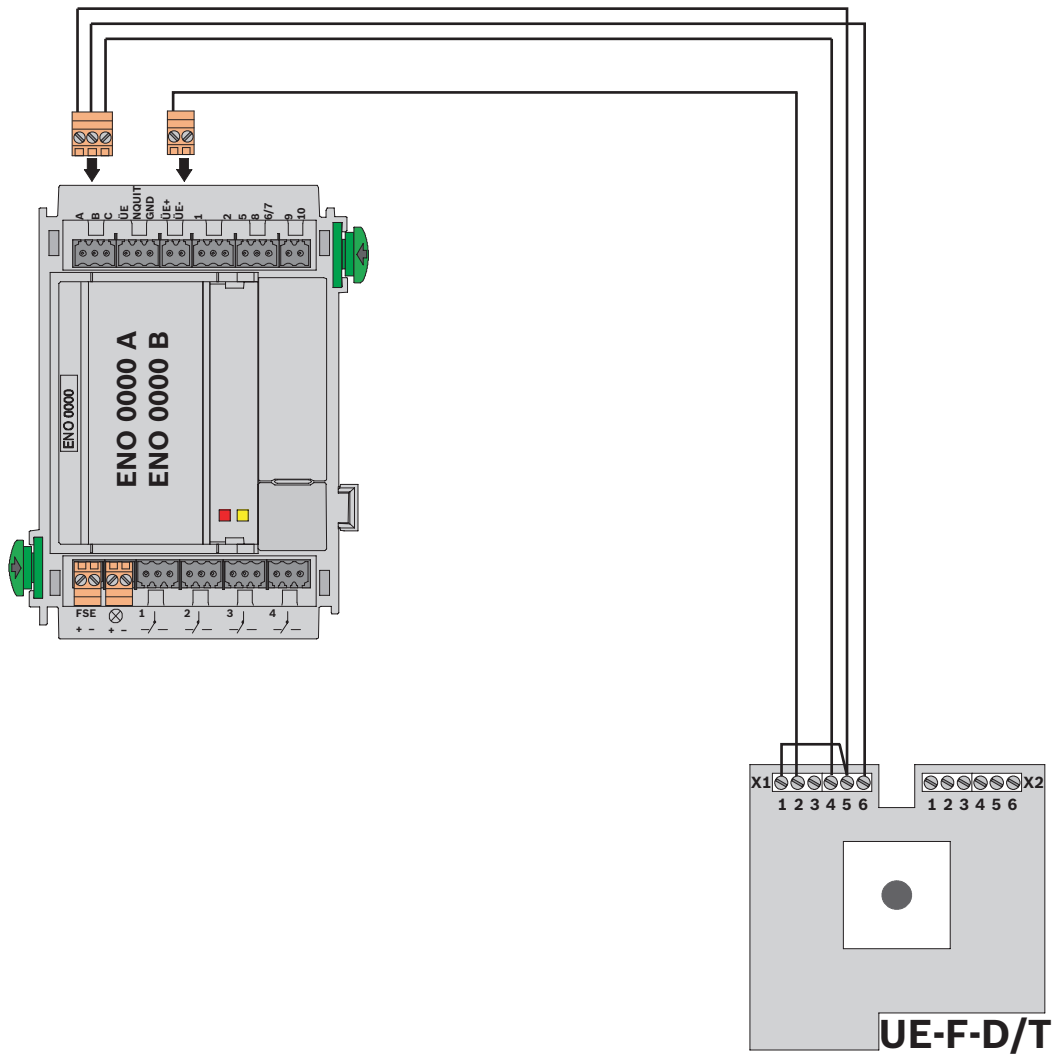


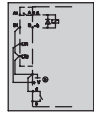
TF2F



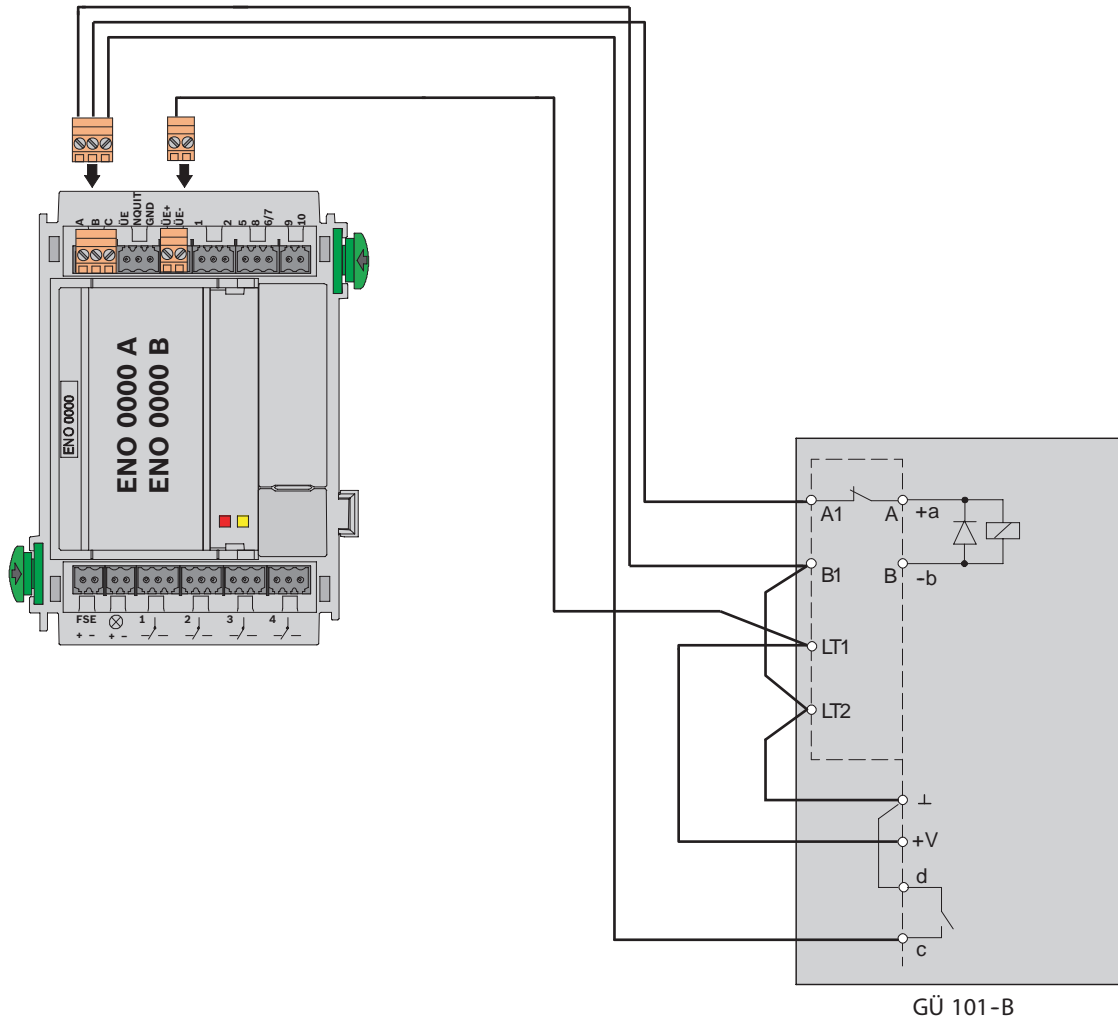
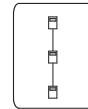


UE-F-D/T

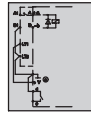




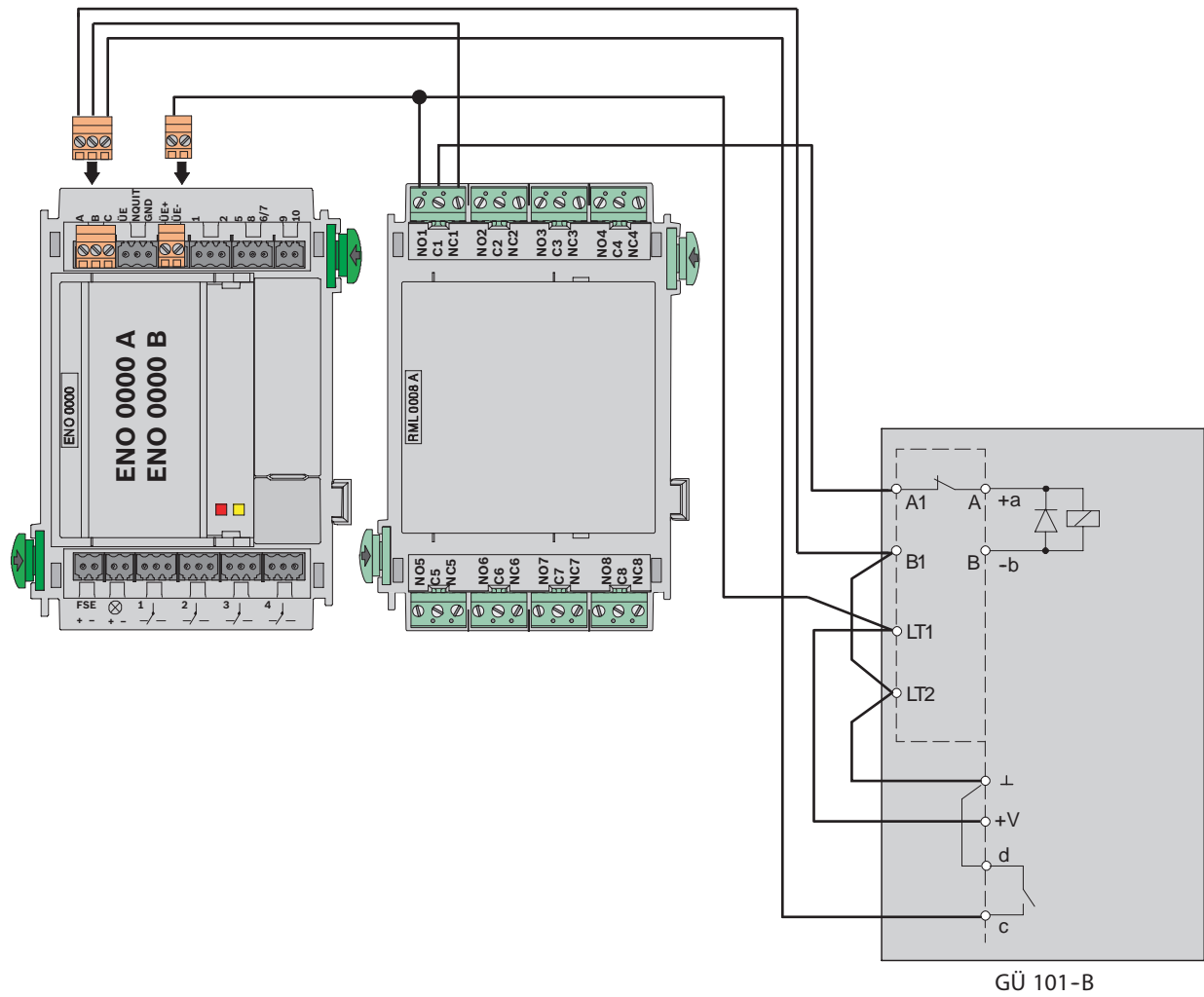
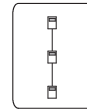
GÜ 101-B



GÜ 101-B

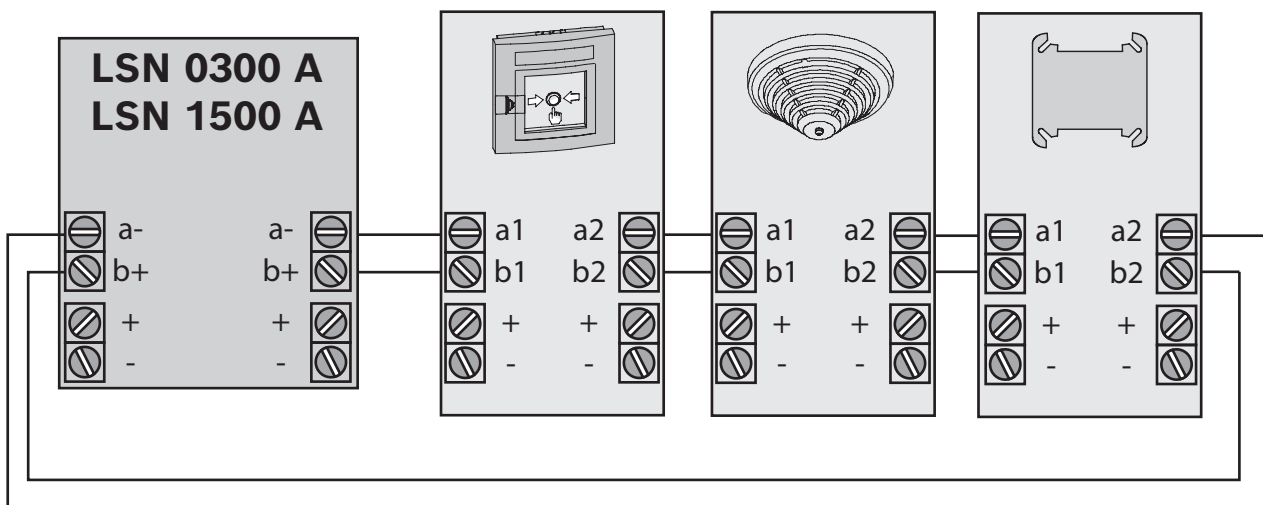
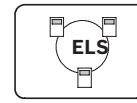


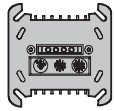
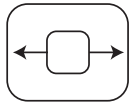
GÜ 101-B



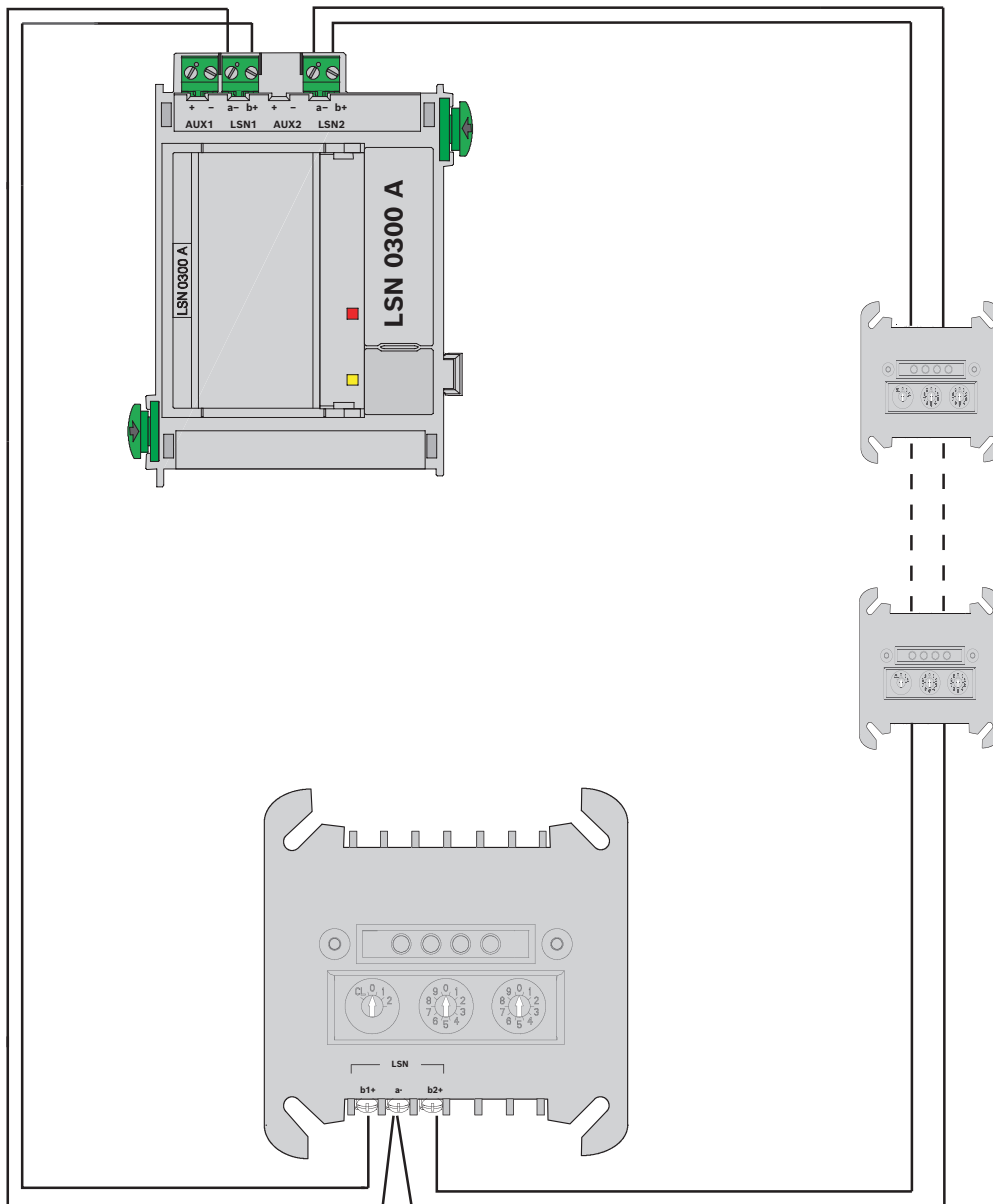
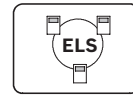
2.4.4

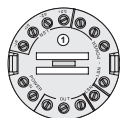
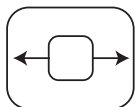
LSN 0300 A



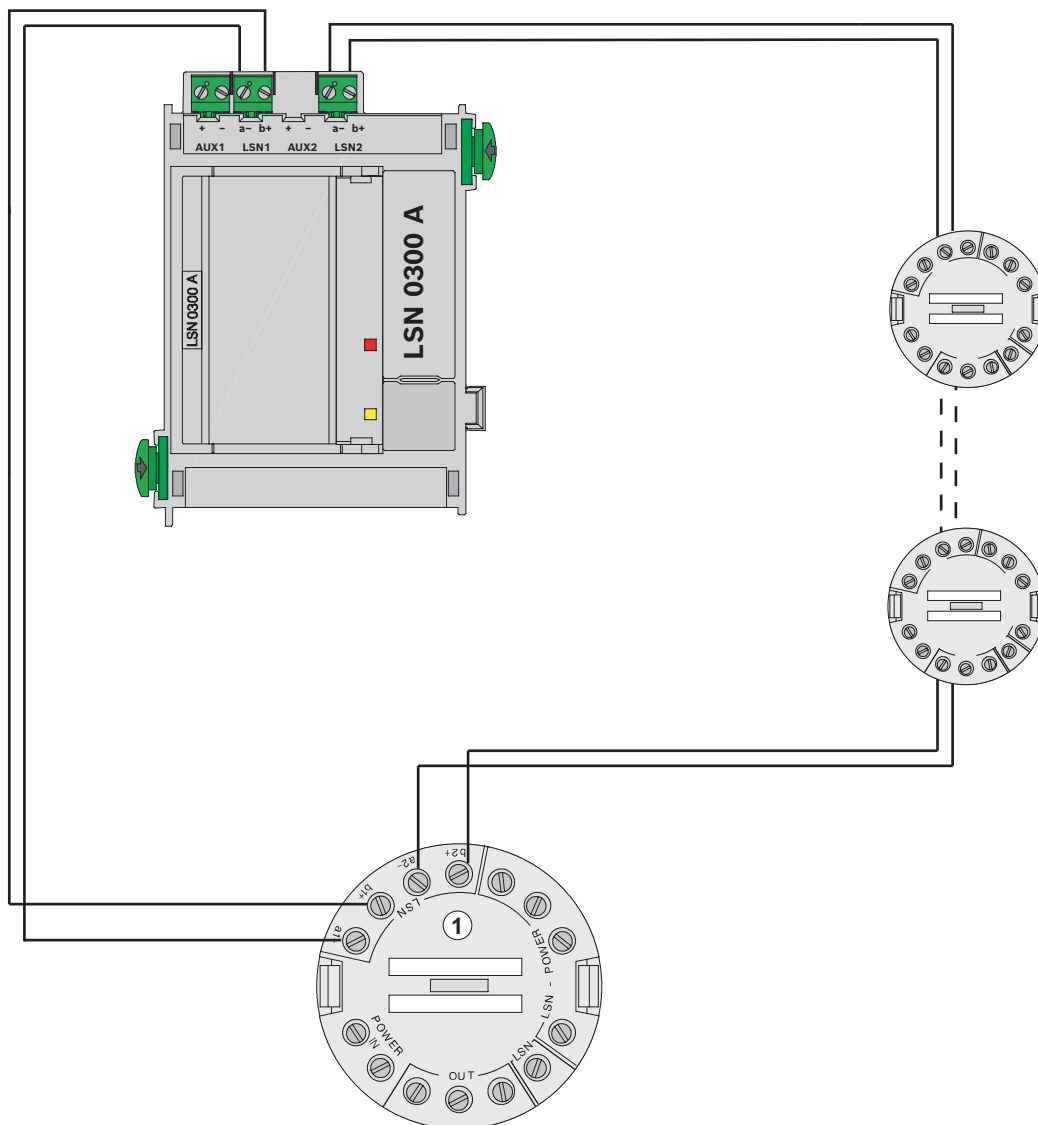
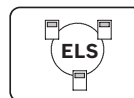


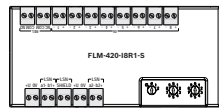
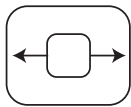
FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D



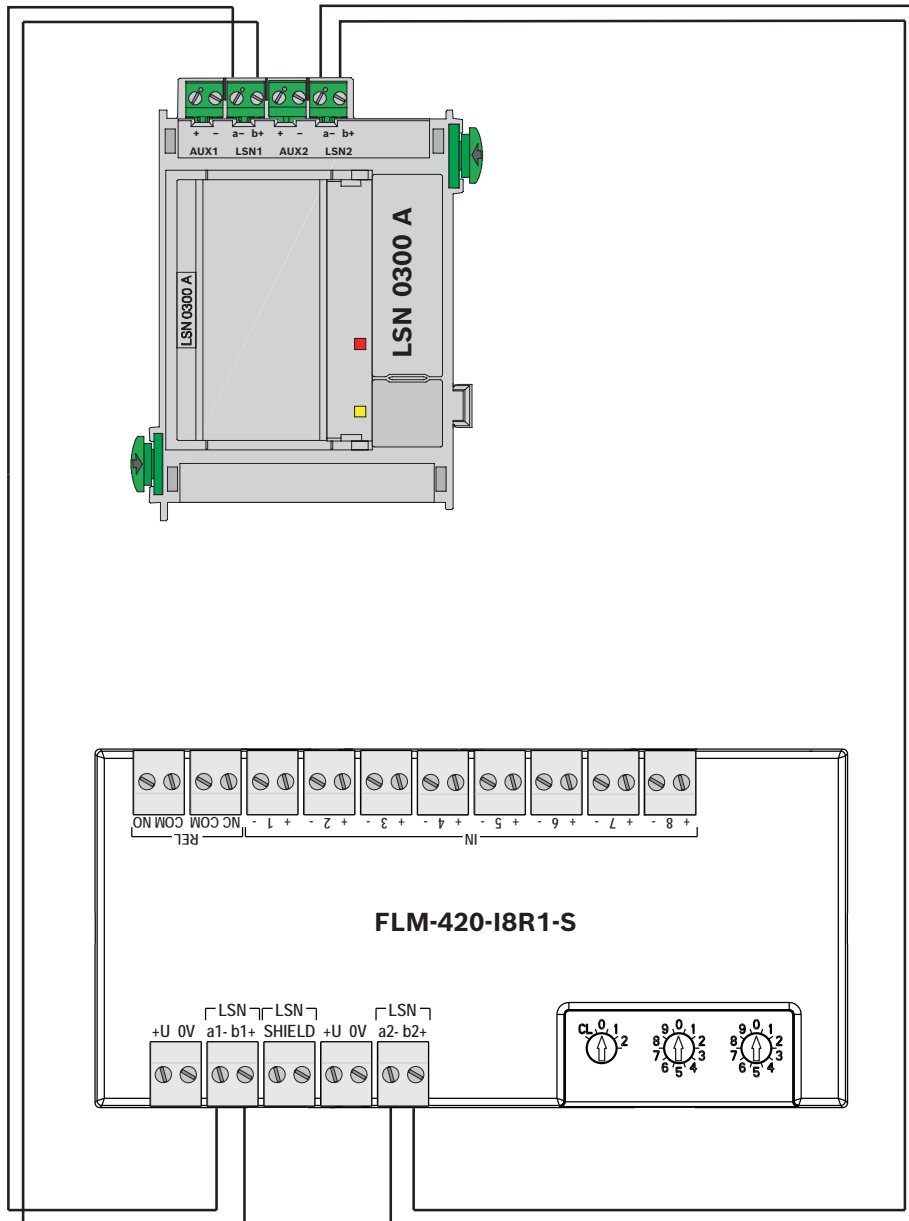
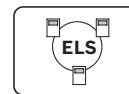


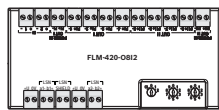
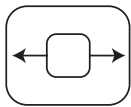
FLM-420-I2-E/W
FLM-420-RLV1-E



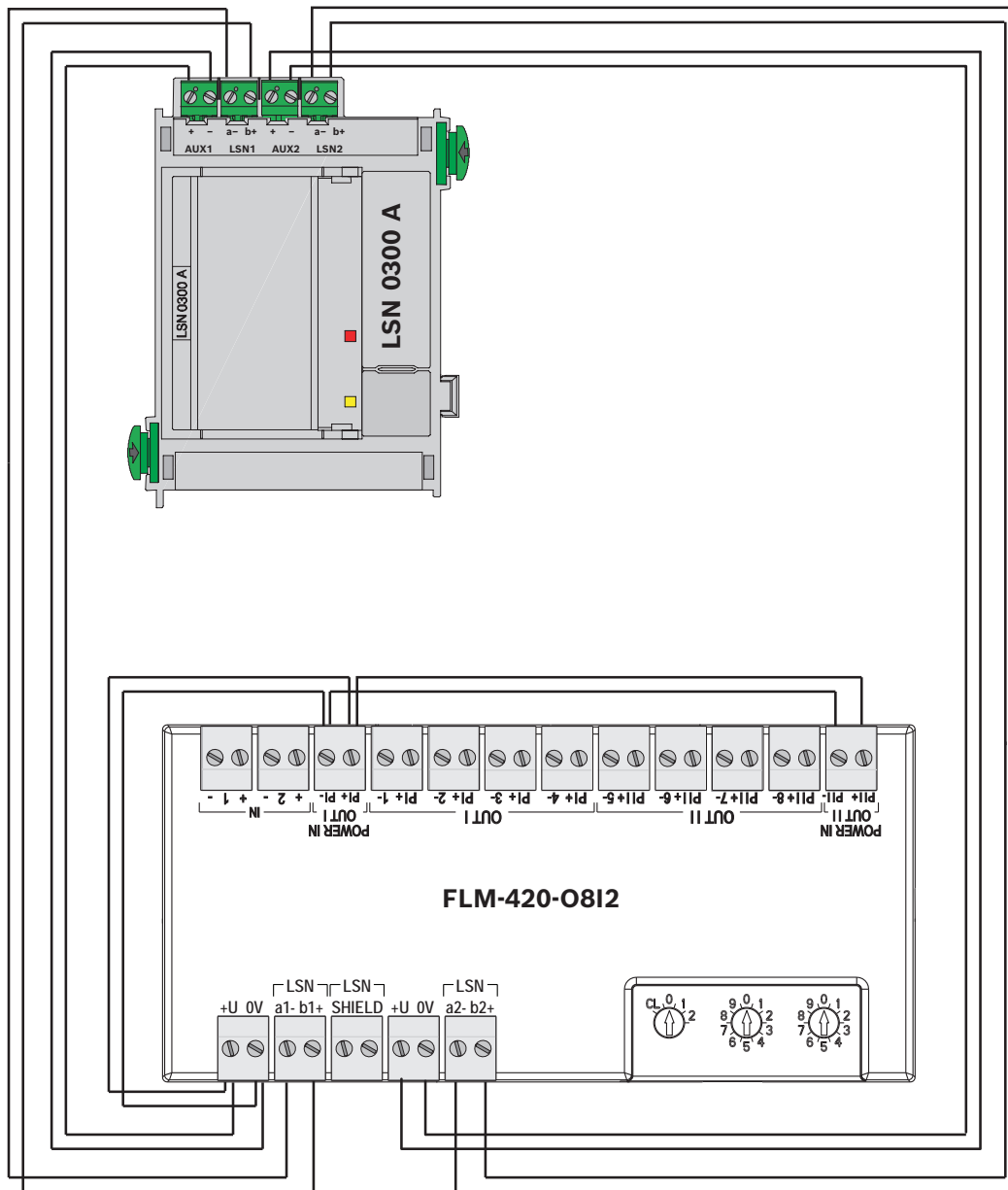
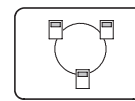


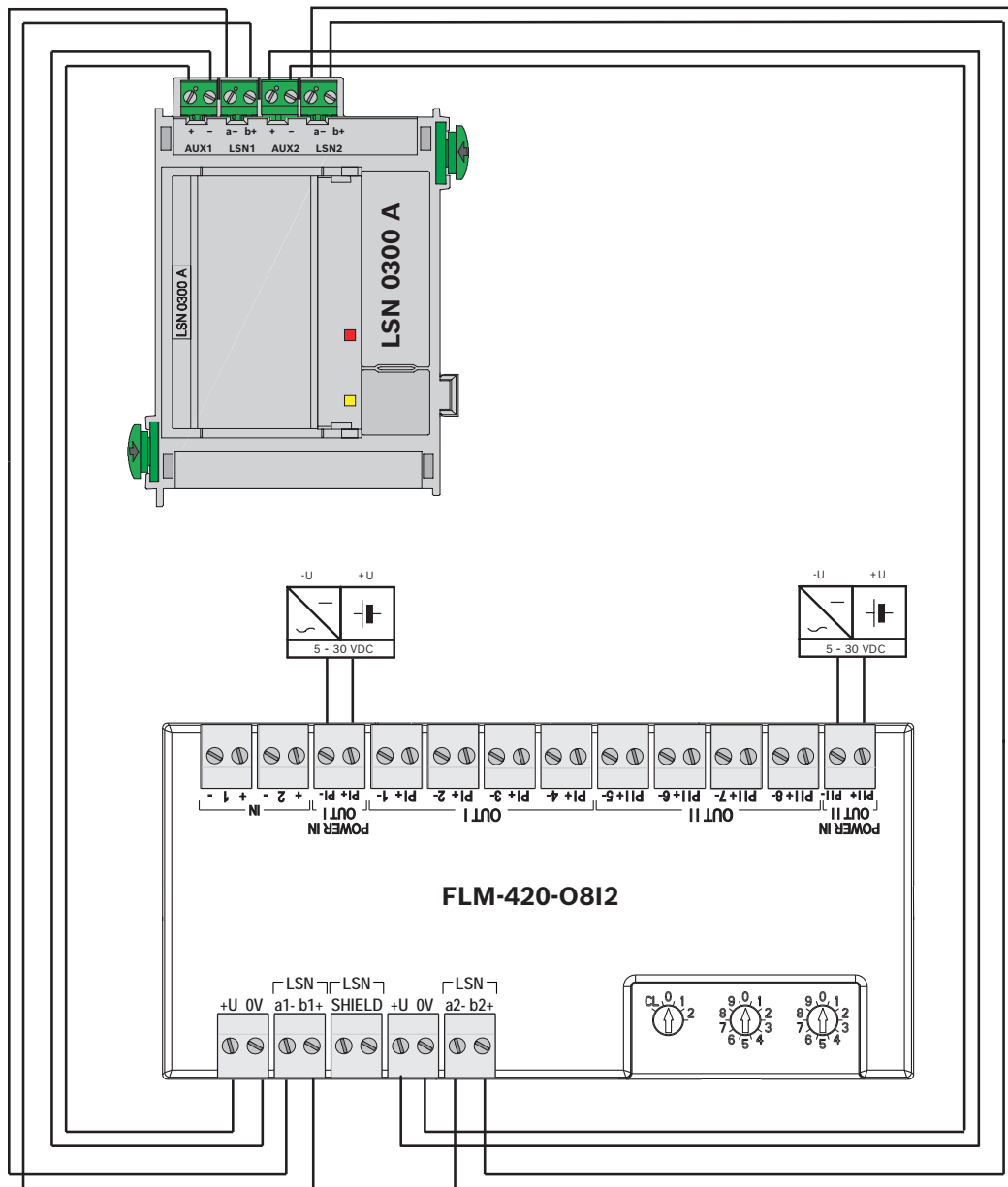
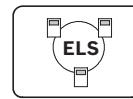
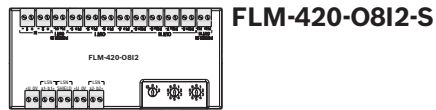
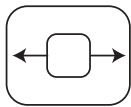
FLM-420-18R1-S

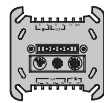
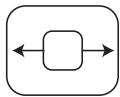




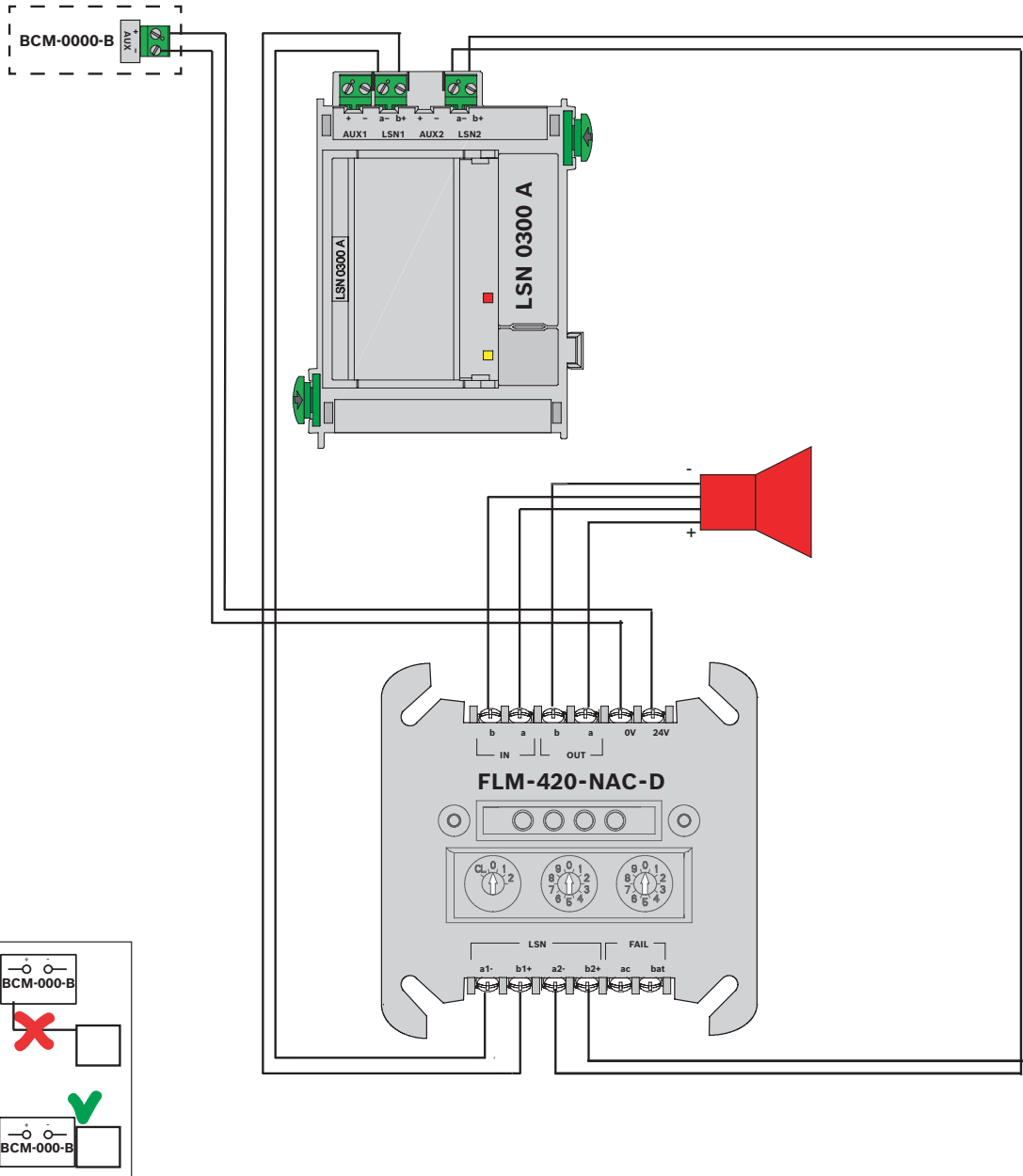
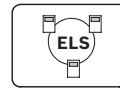
FLM-420-0812-S

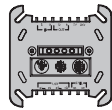
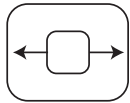




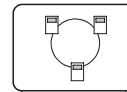


FLM-420-NAC-D/S

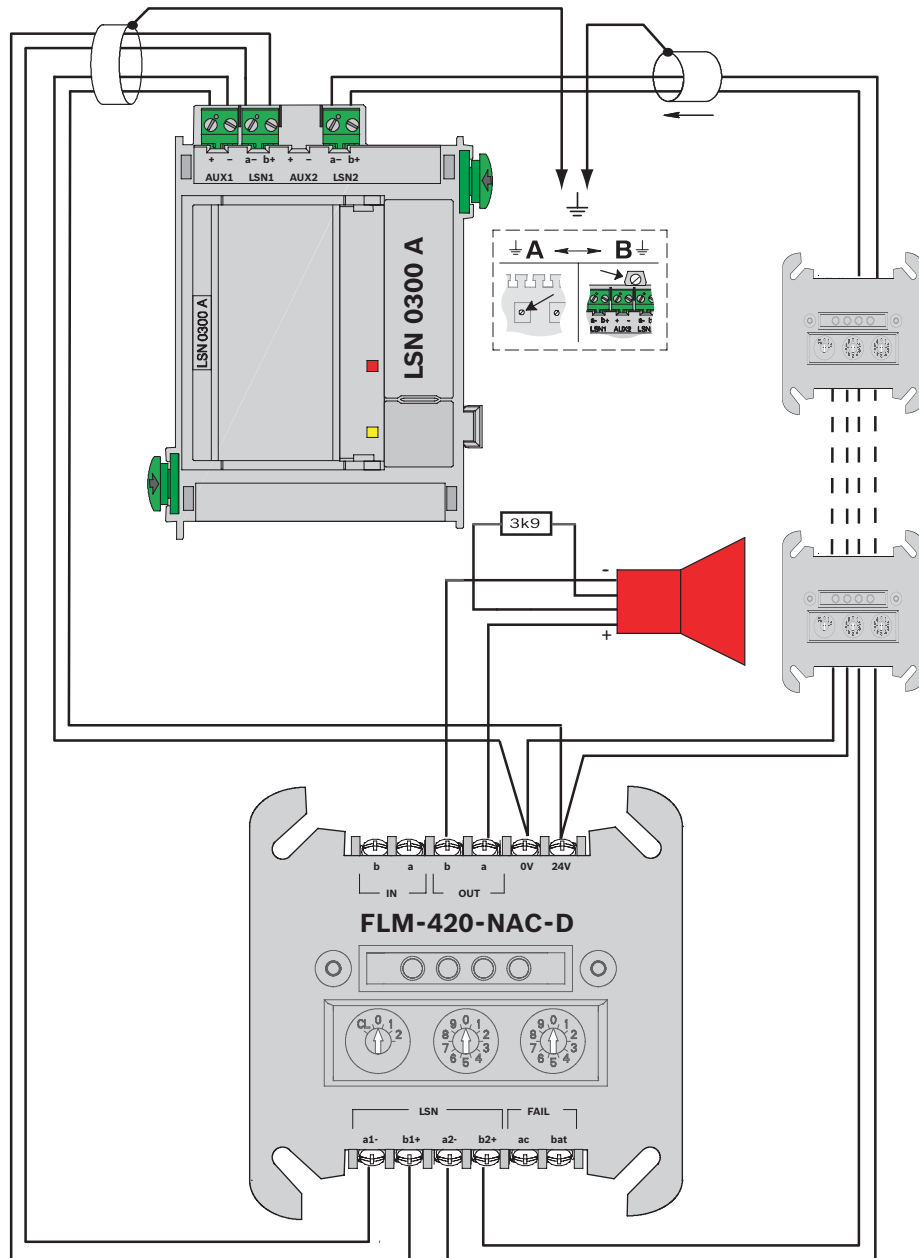


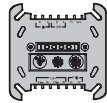
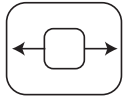


FLM-420-NAC-D/S

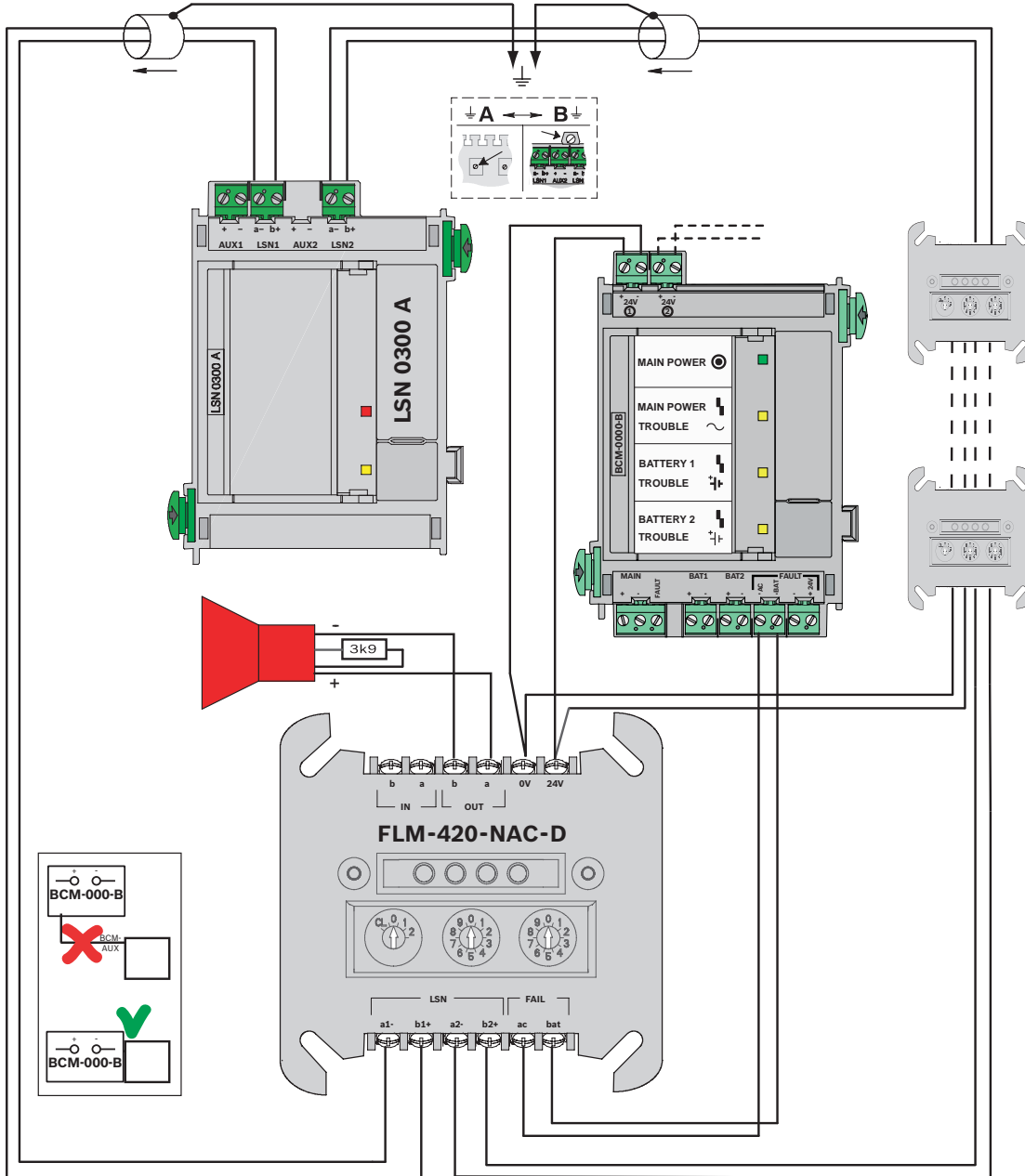
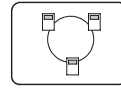


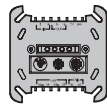
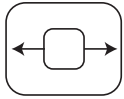
EN 54-2



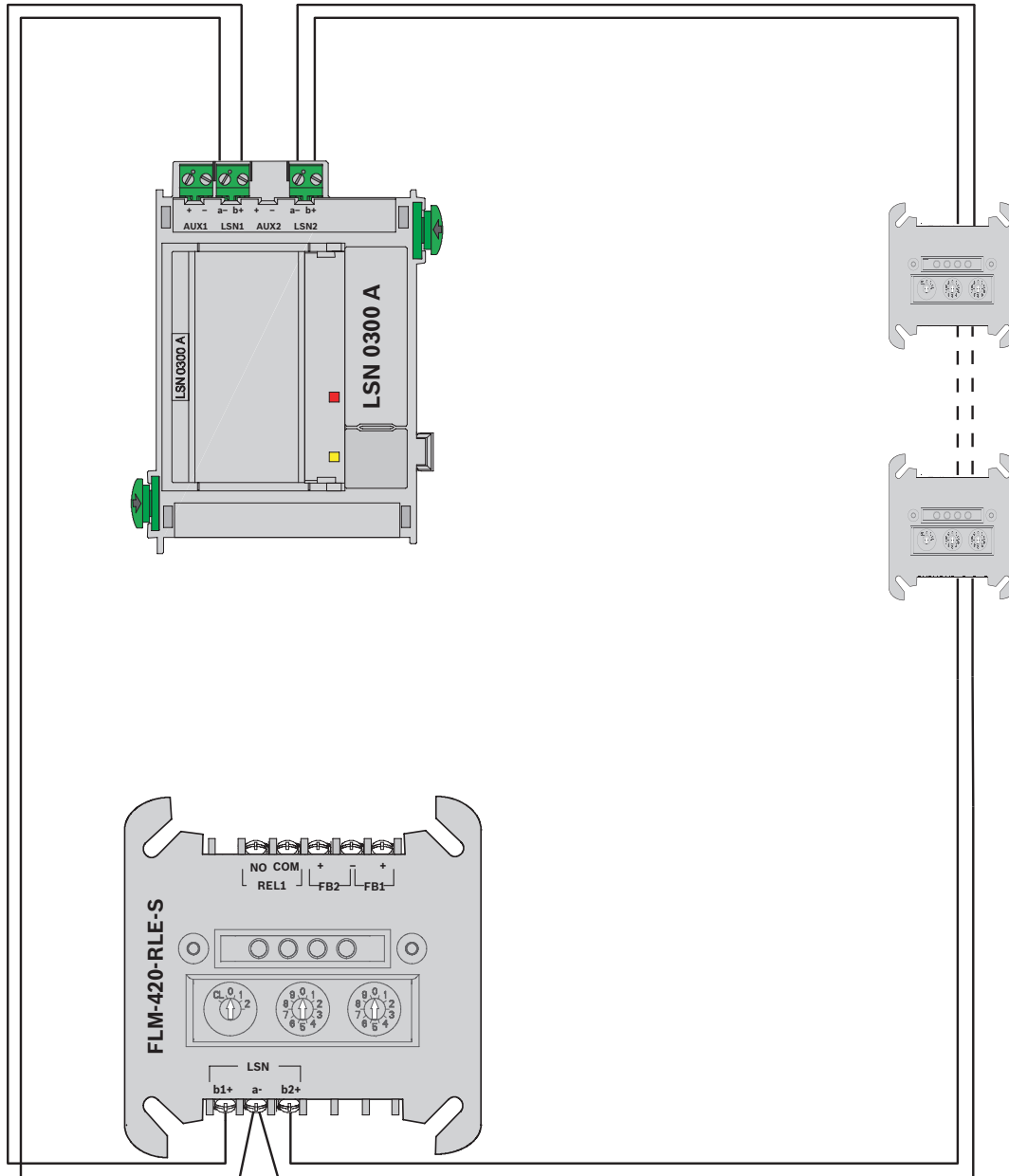
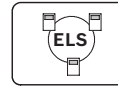


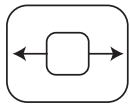
FLM-420-NAC-D/S



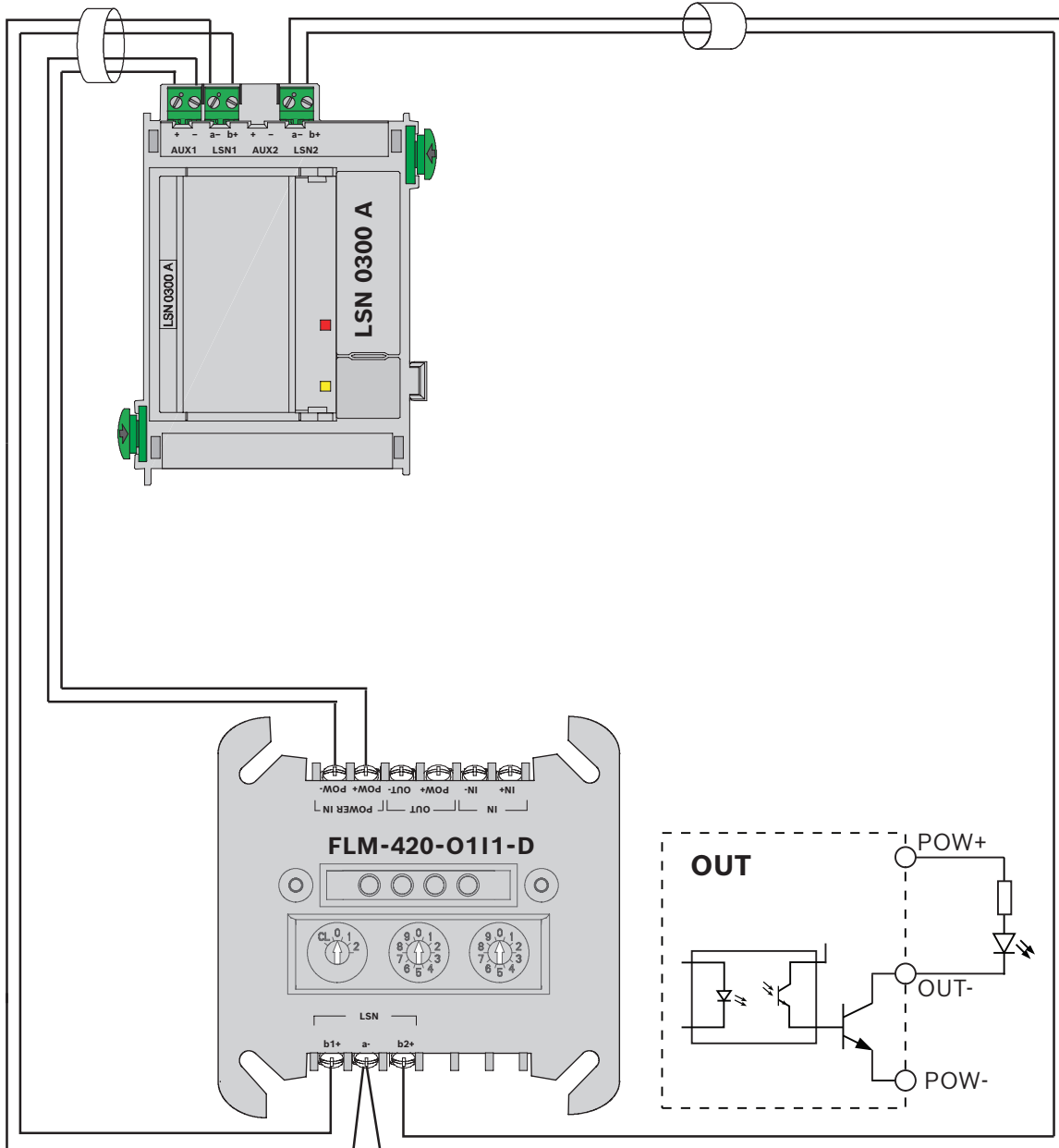
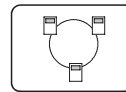


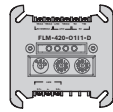
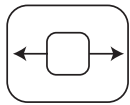
FLM-420-RLE-S



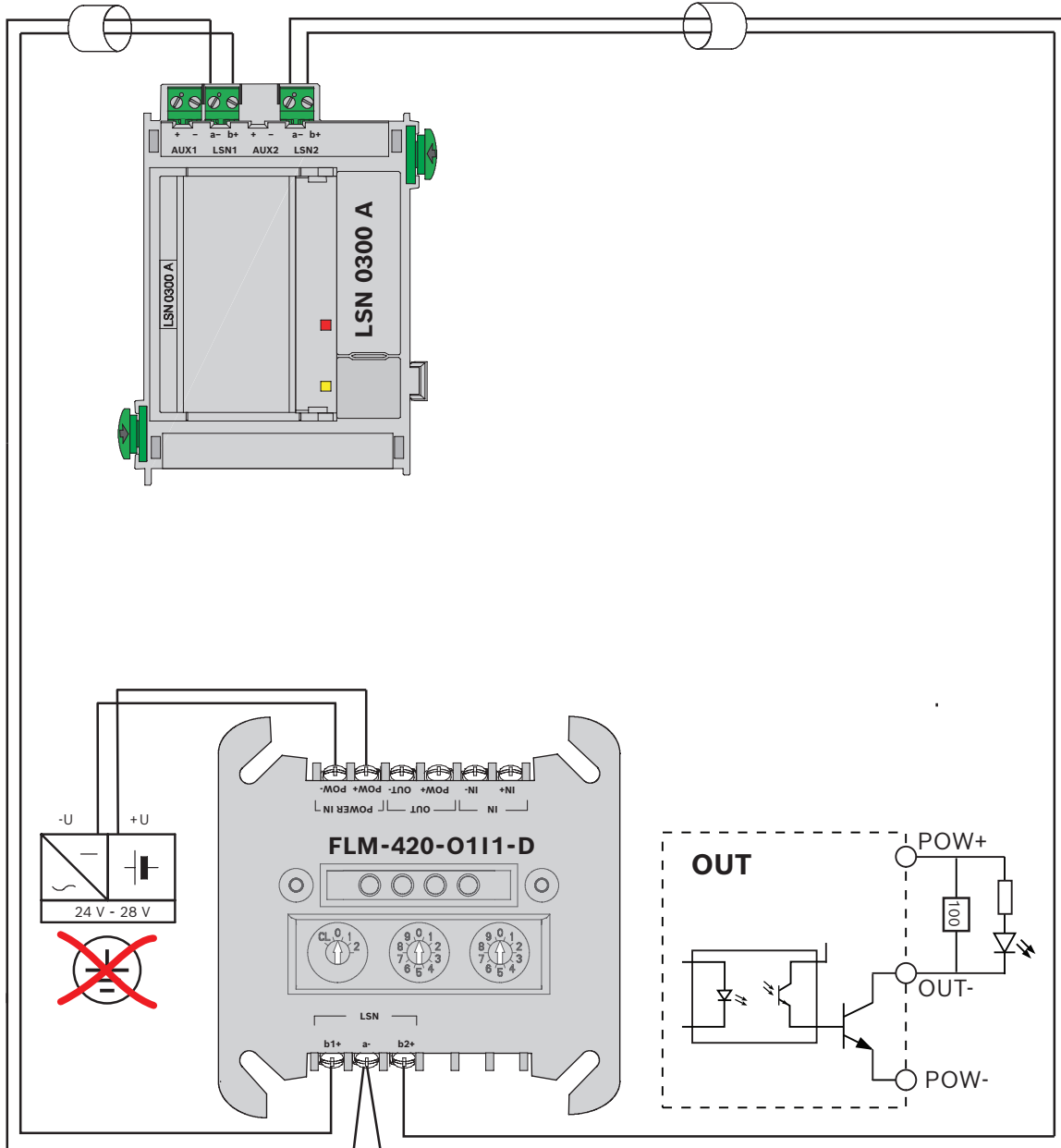
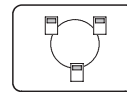


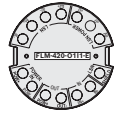
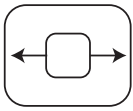
FLM-420-O111-D



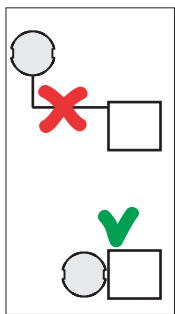
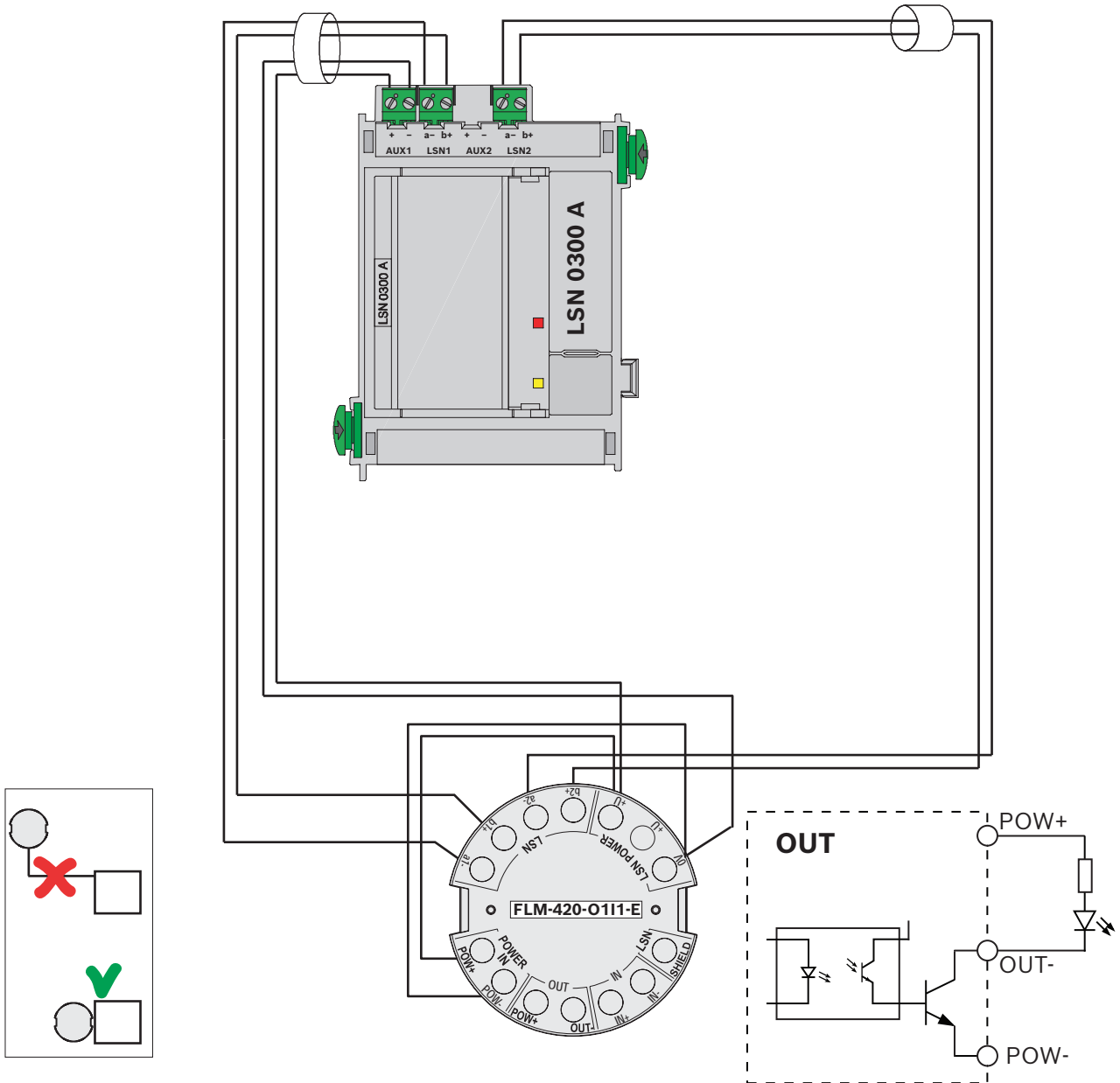
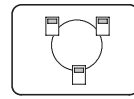


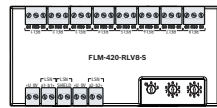
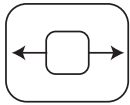
FLM-420-O111-D



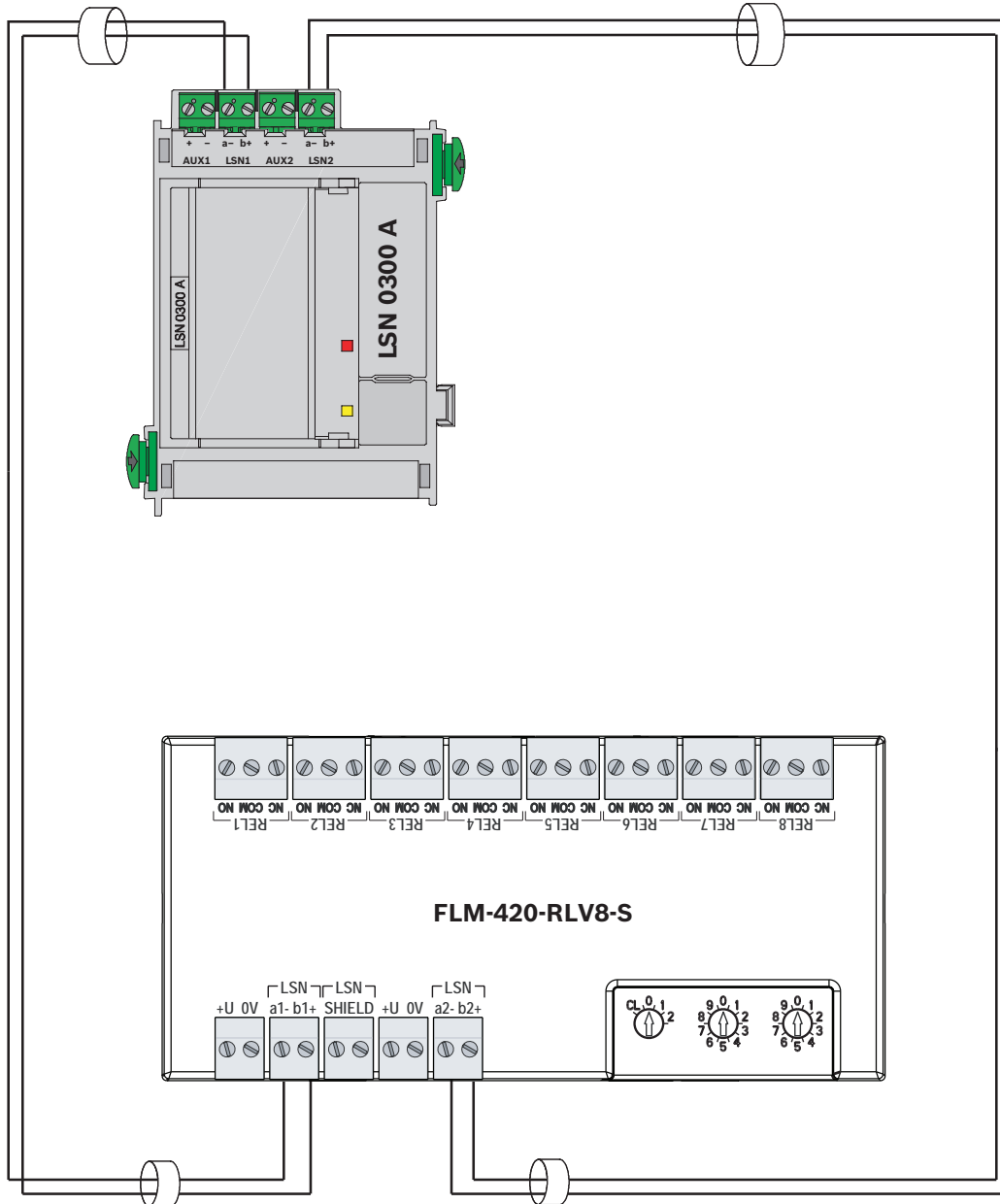
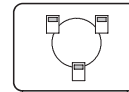


FLM-420-O111-E



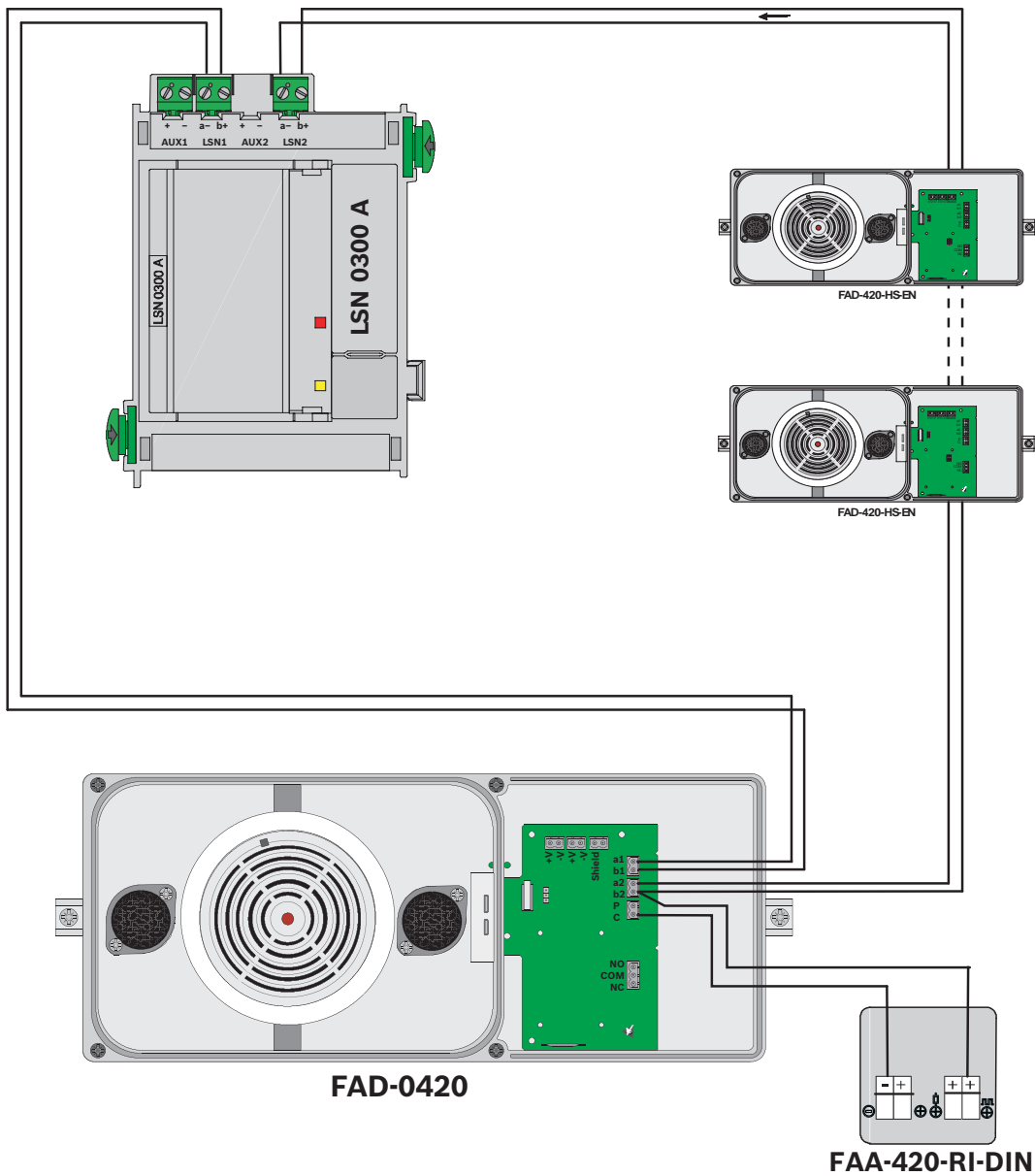


FLM-420-RLV8-S



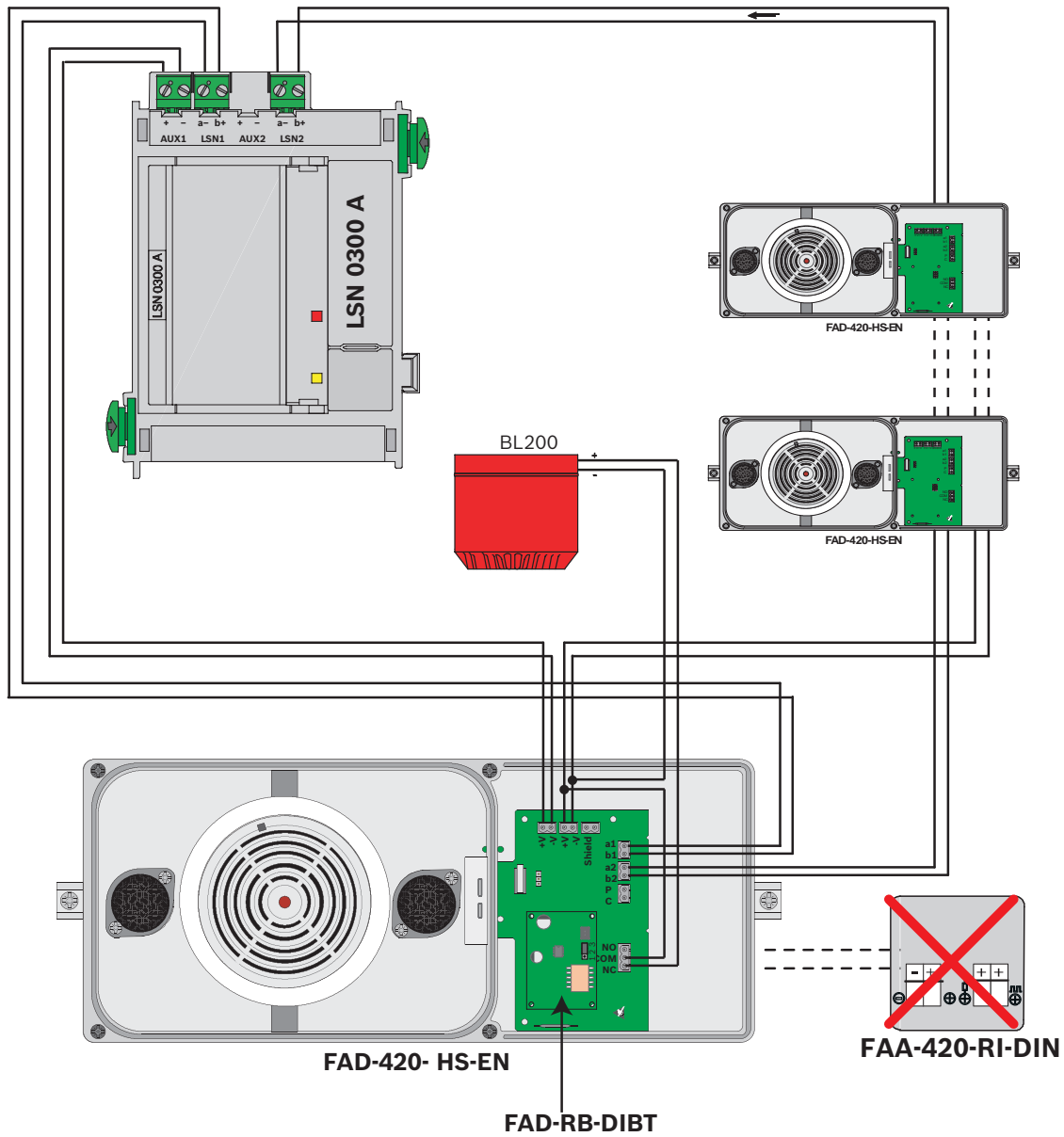


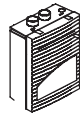
FAD-0420



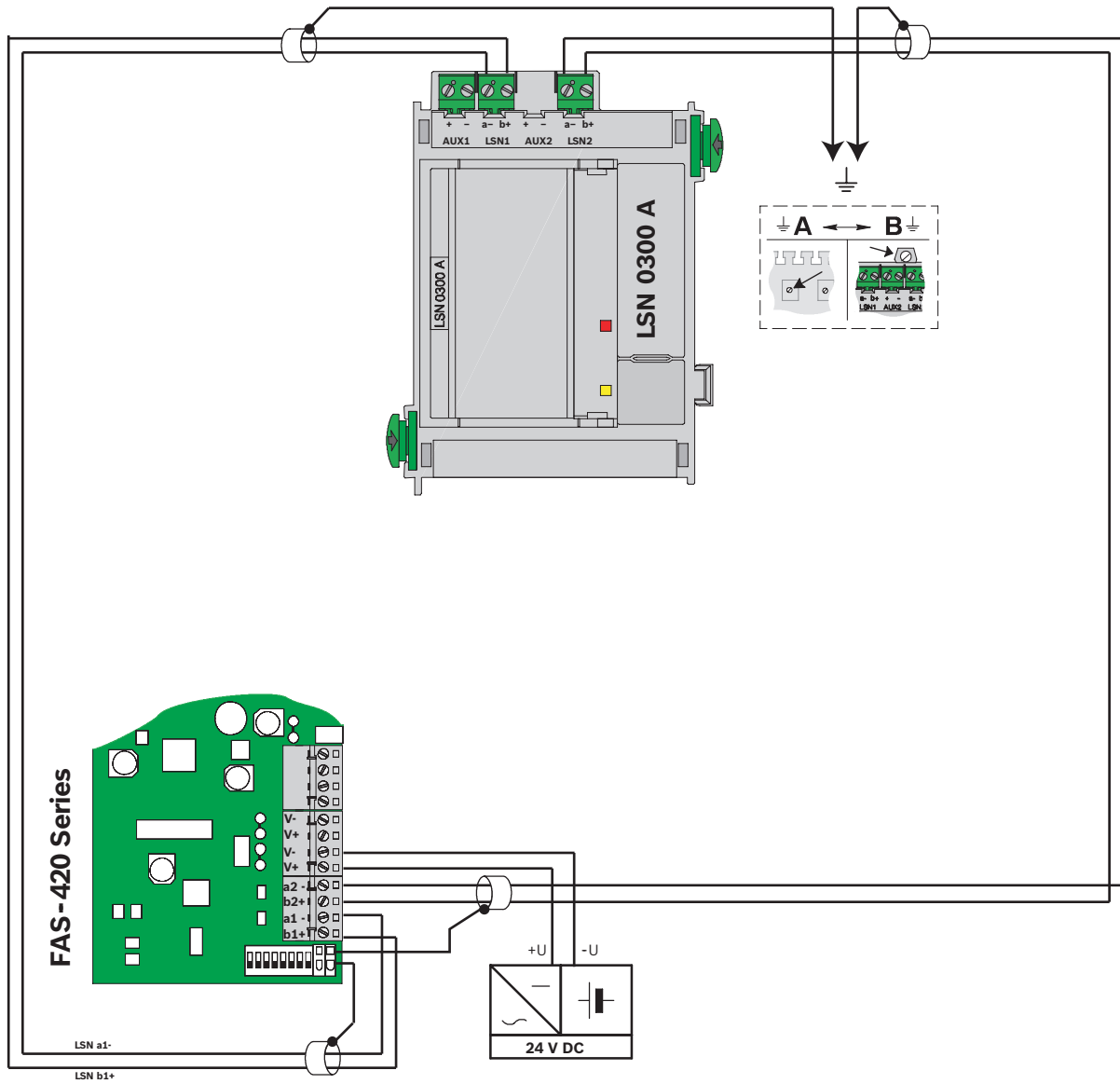


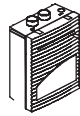
FAD-420-HS-EN



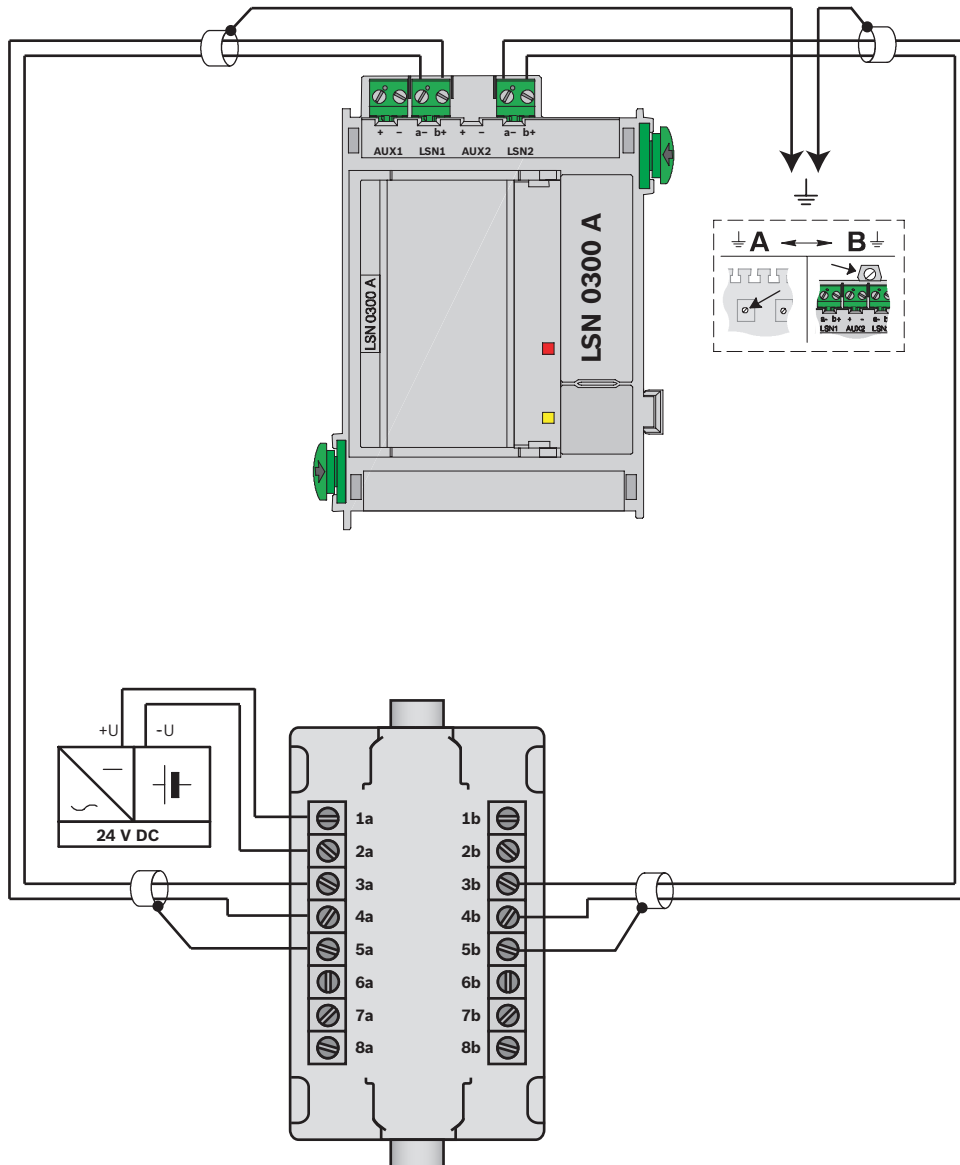


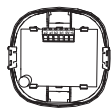
FAS-420 Series



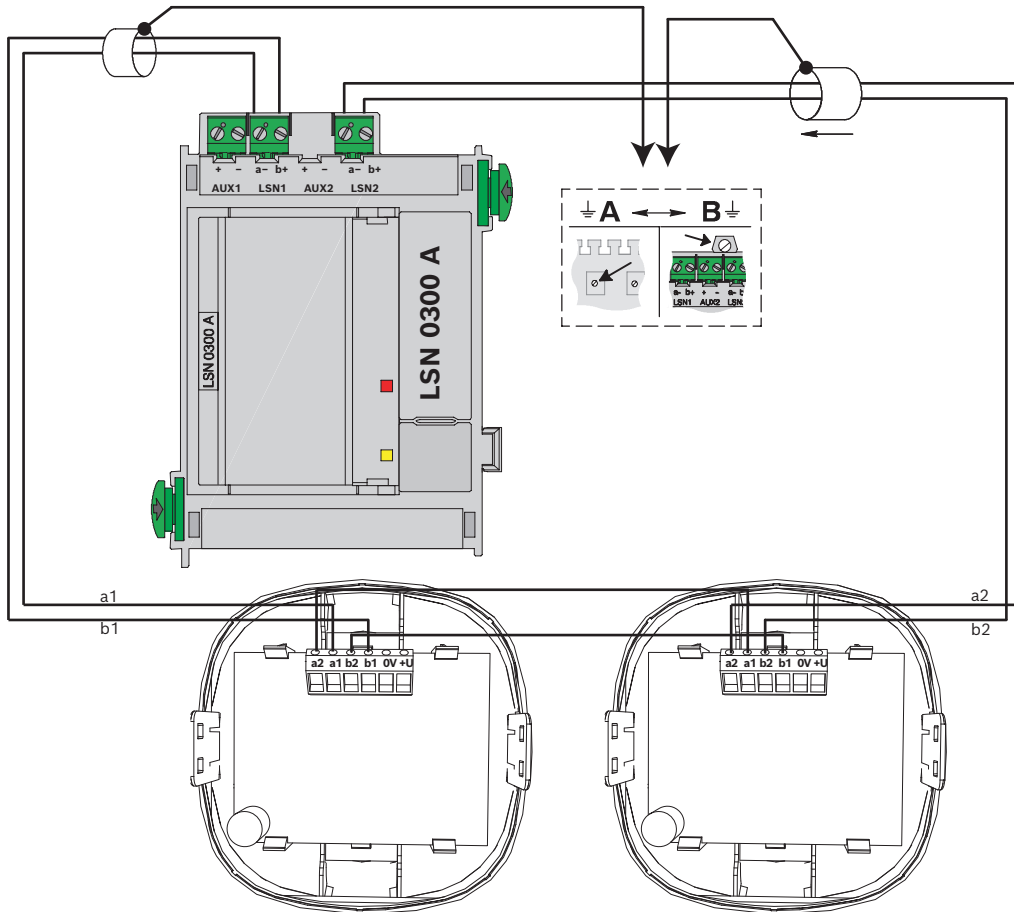
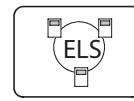


FAS-420-TM Series





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

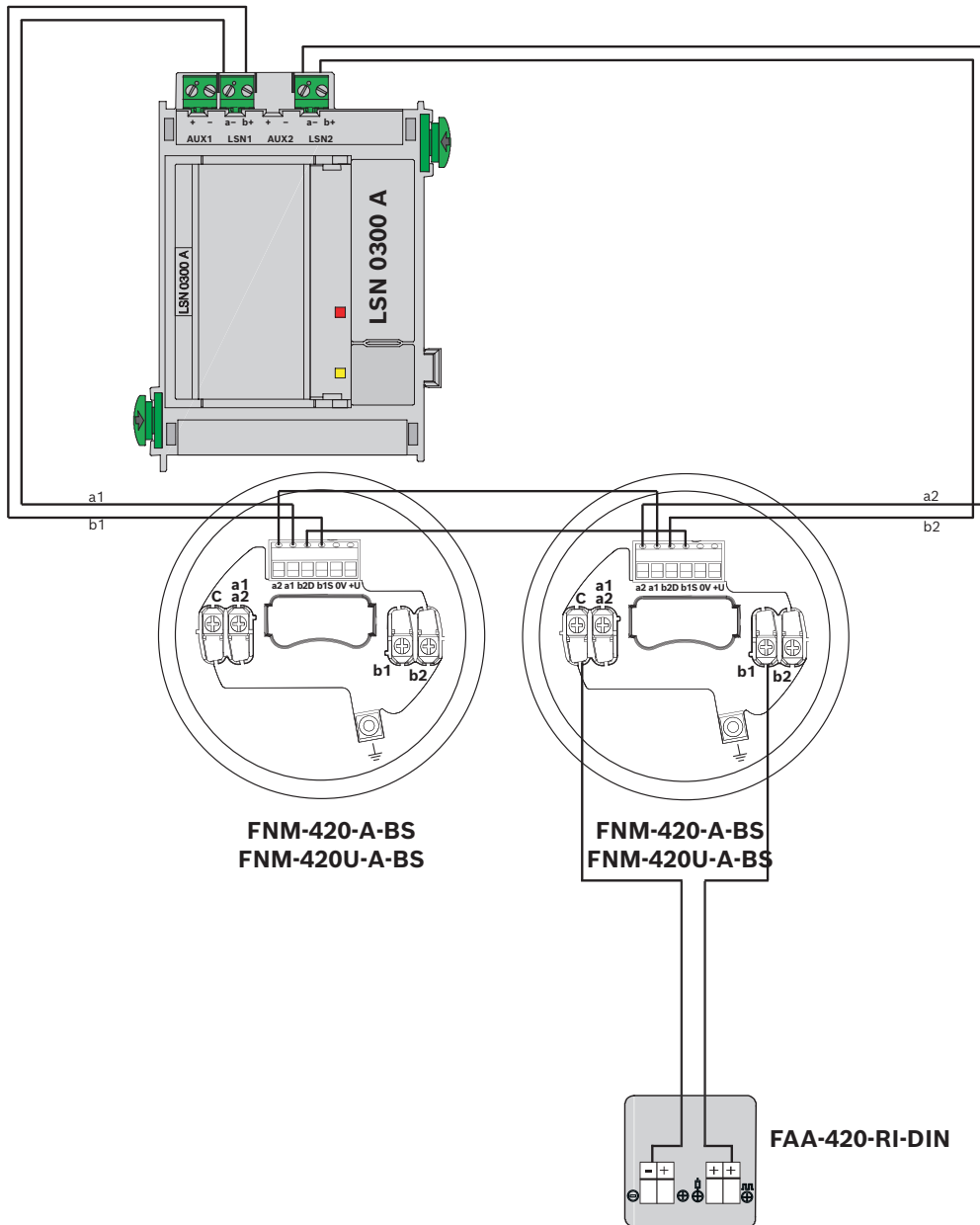
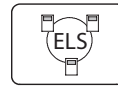


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

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



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



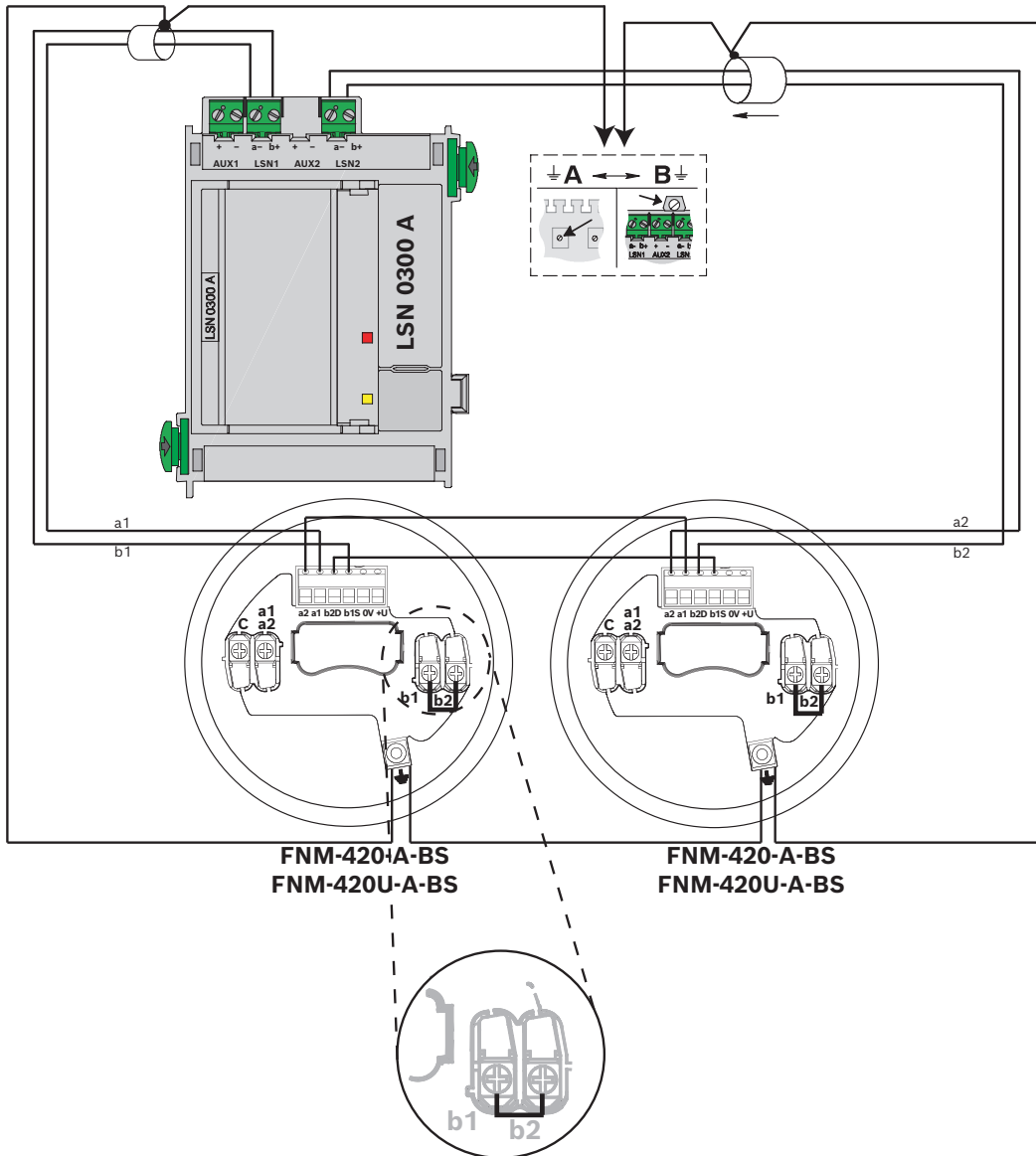
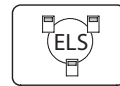
FNM-420-A-BS
FNM-420U-A-BS

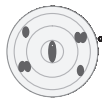
FNM-420-A-BS
FNM-420U-A-BS

FAA-420-RI-DIN

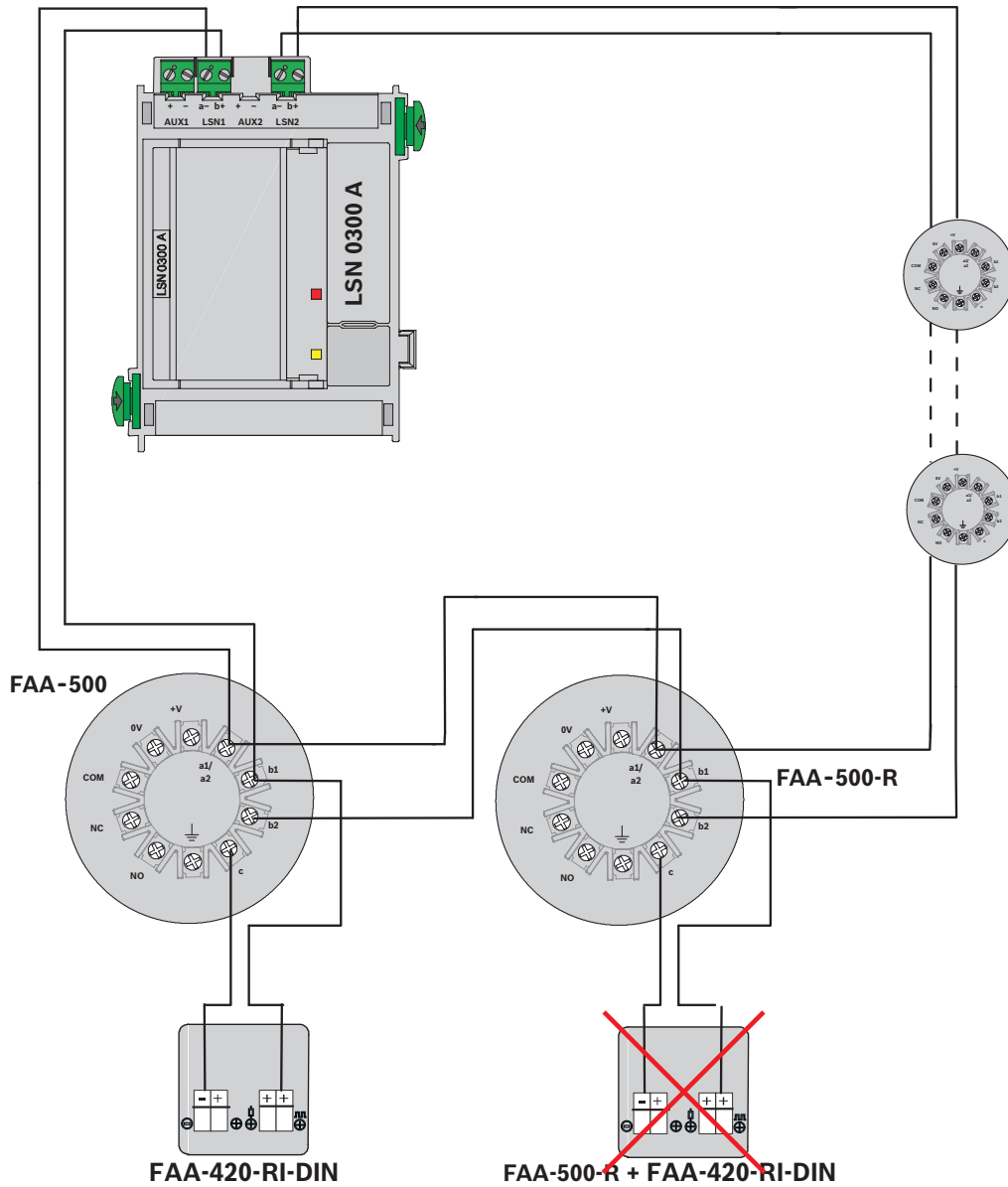
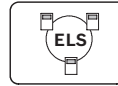


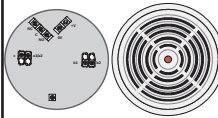
FNM-420-A-BS
FNM-420U-A-BS



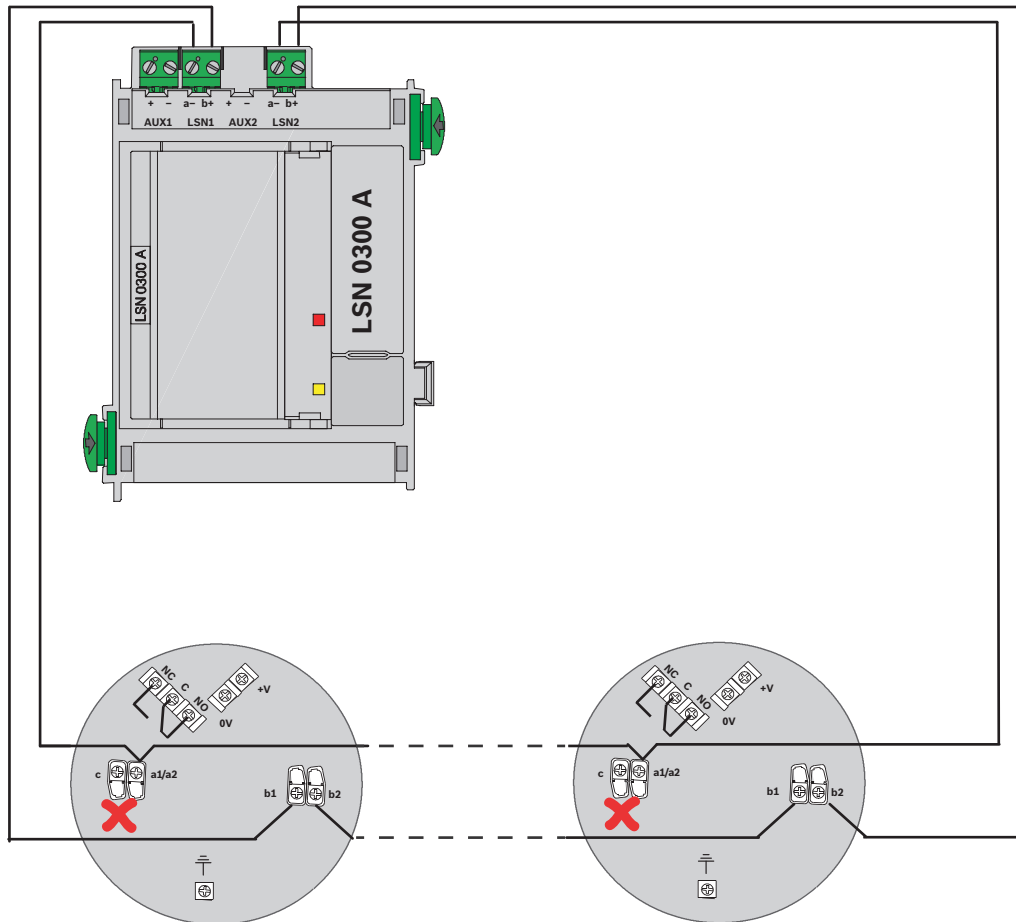
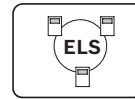


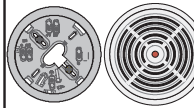
FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P



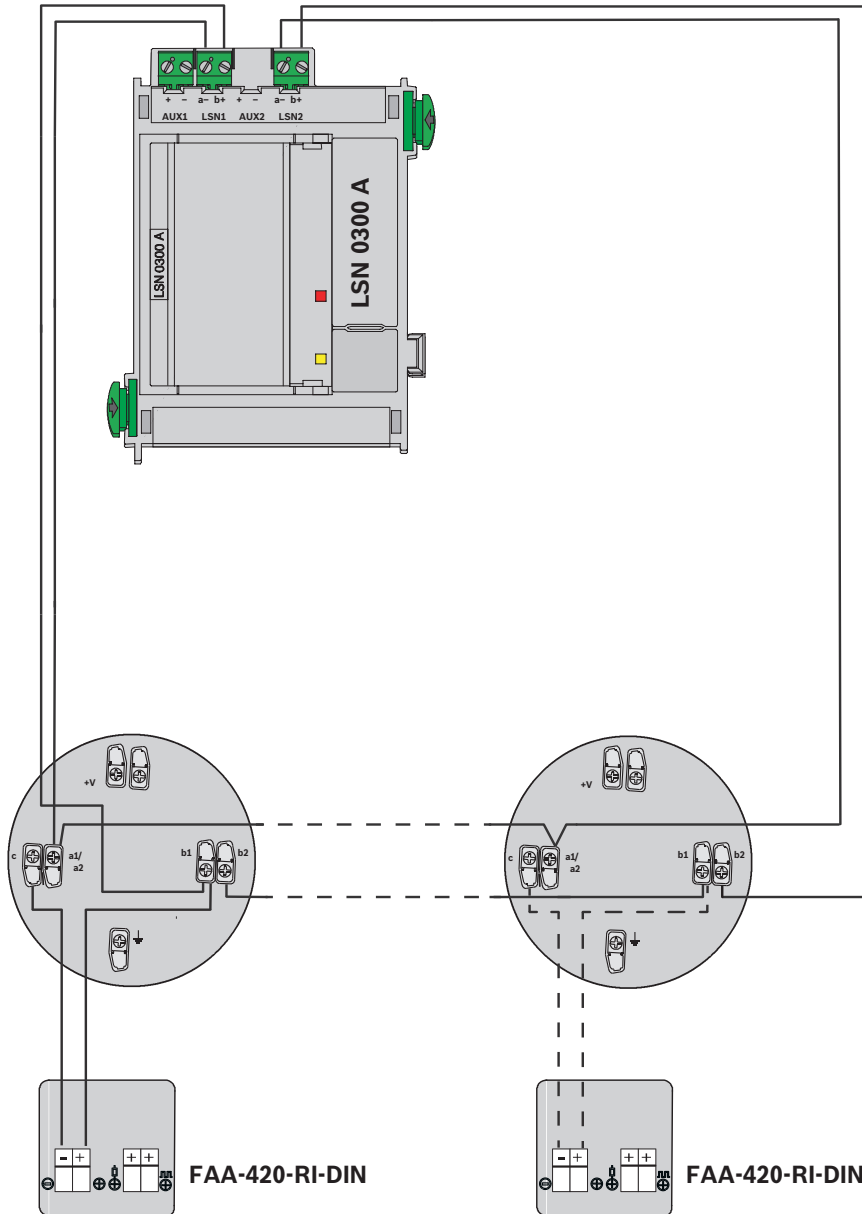
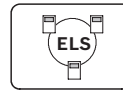


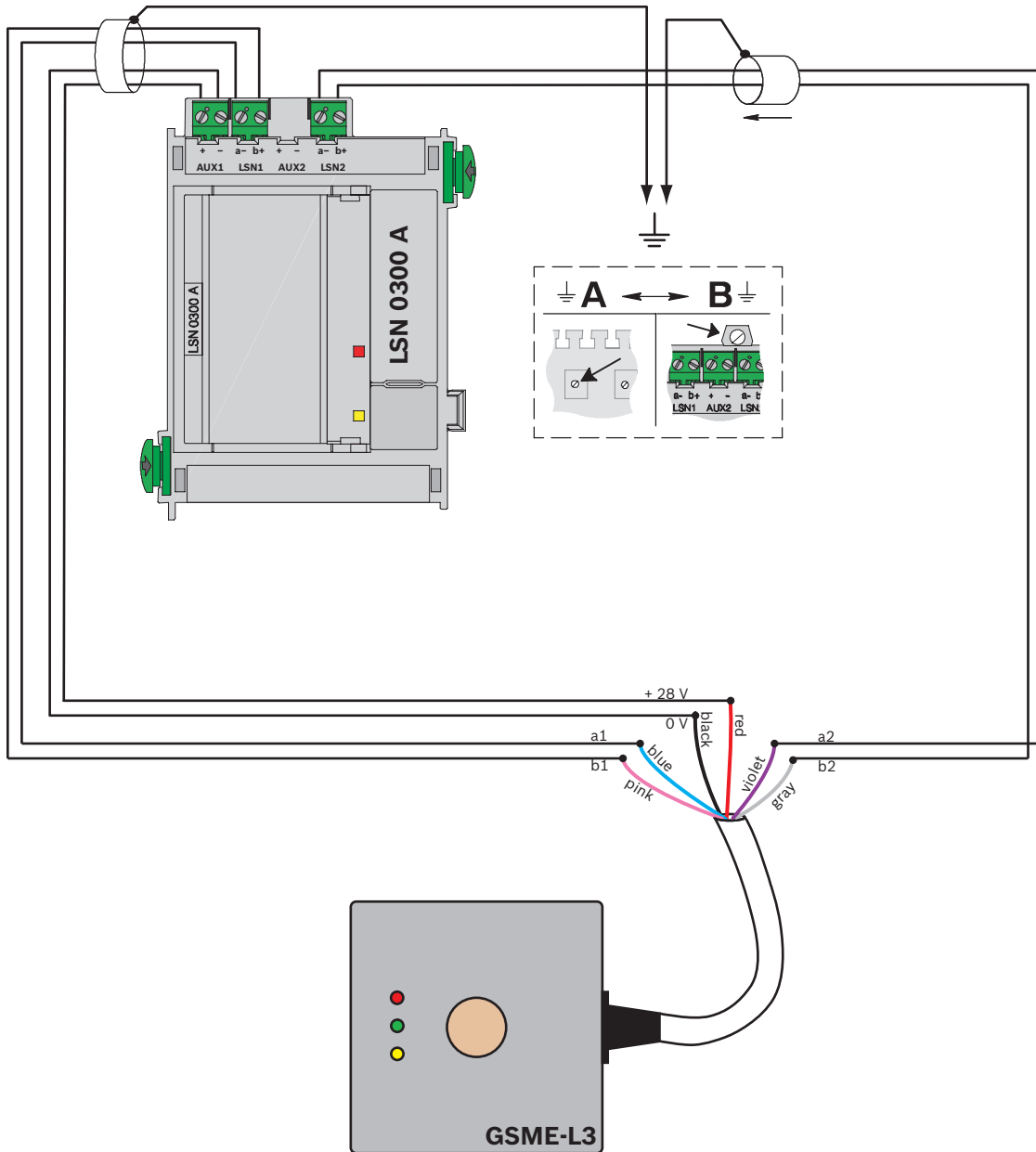
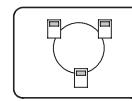
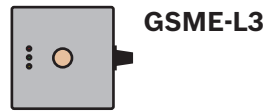
FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R

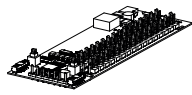




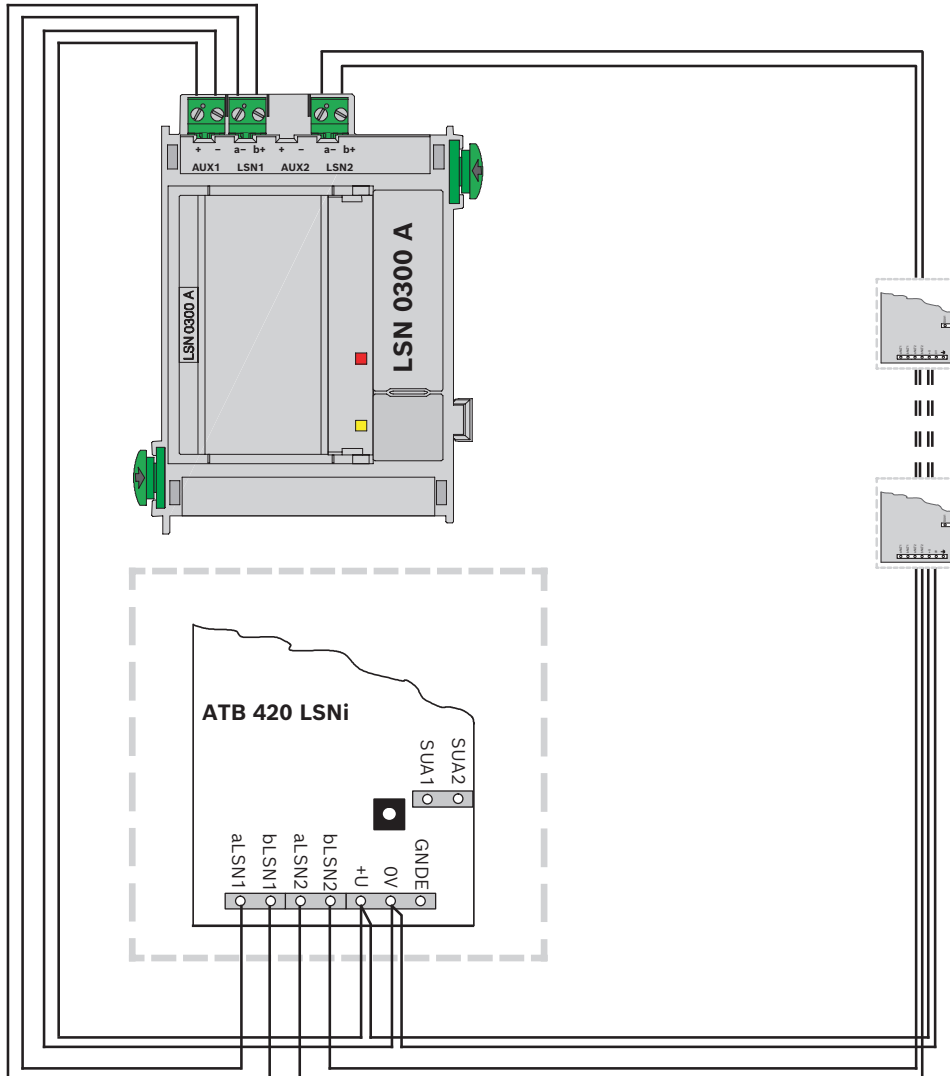
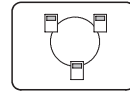
MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R





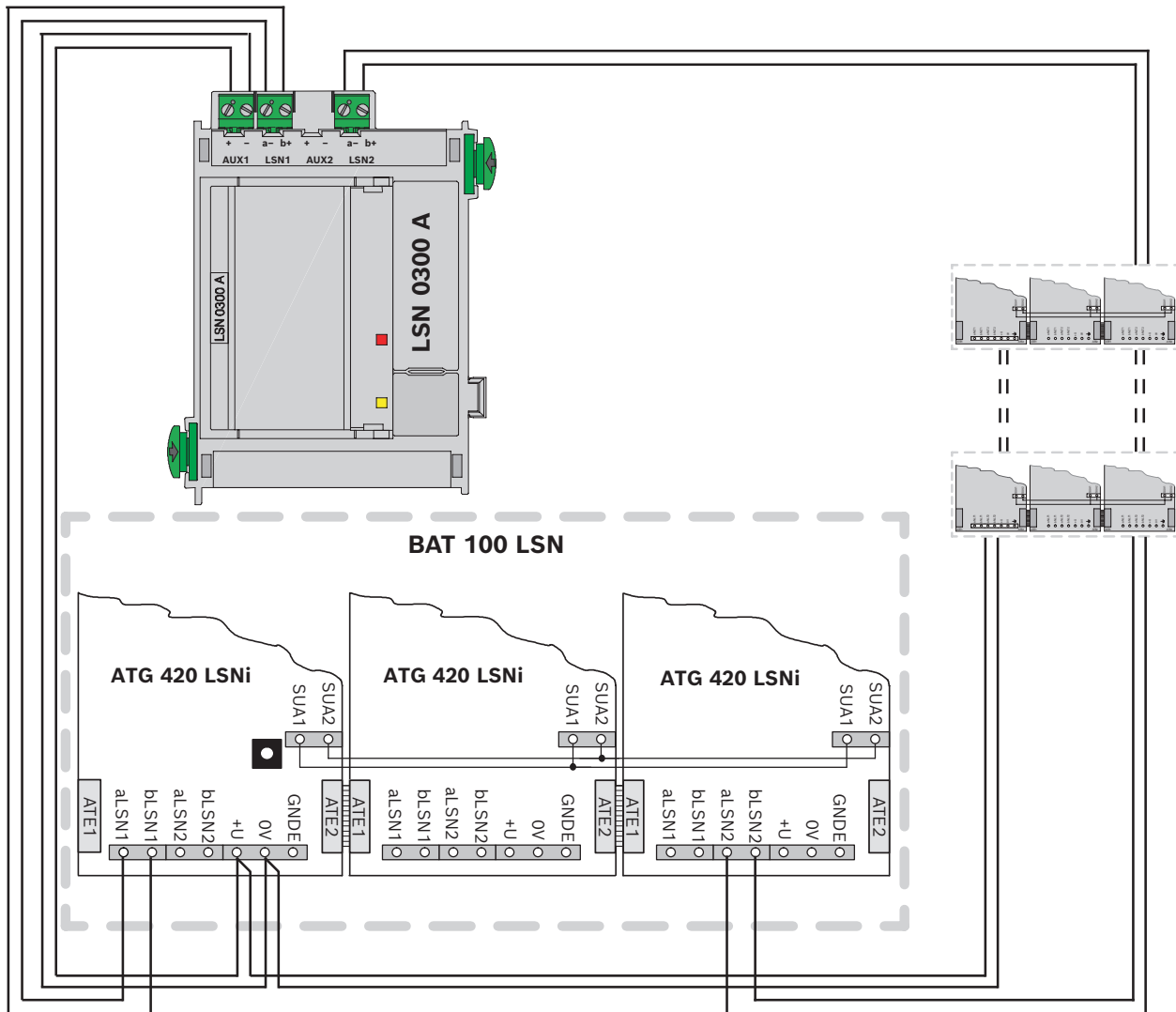
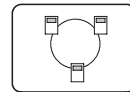


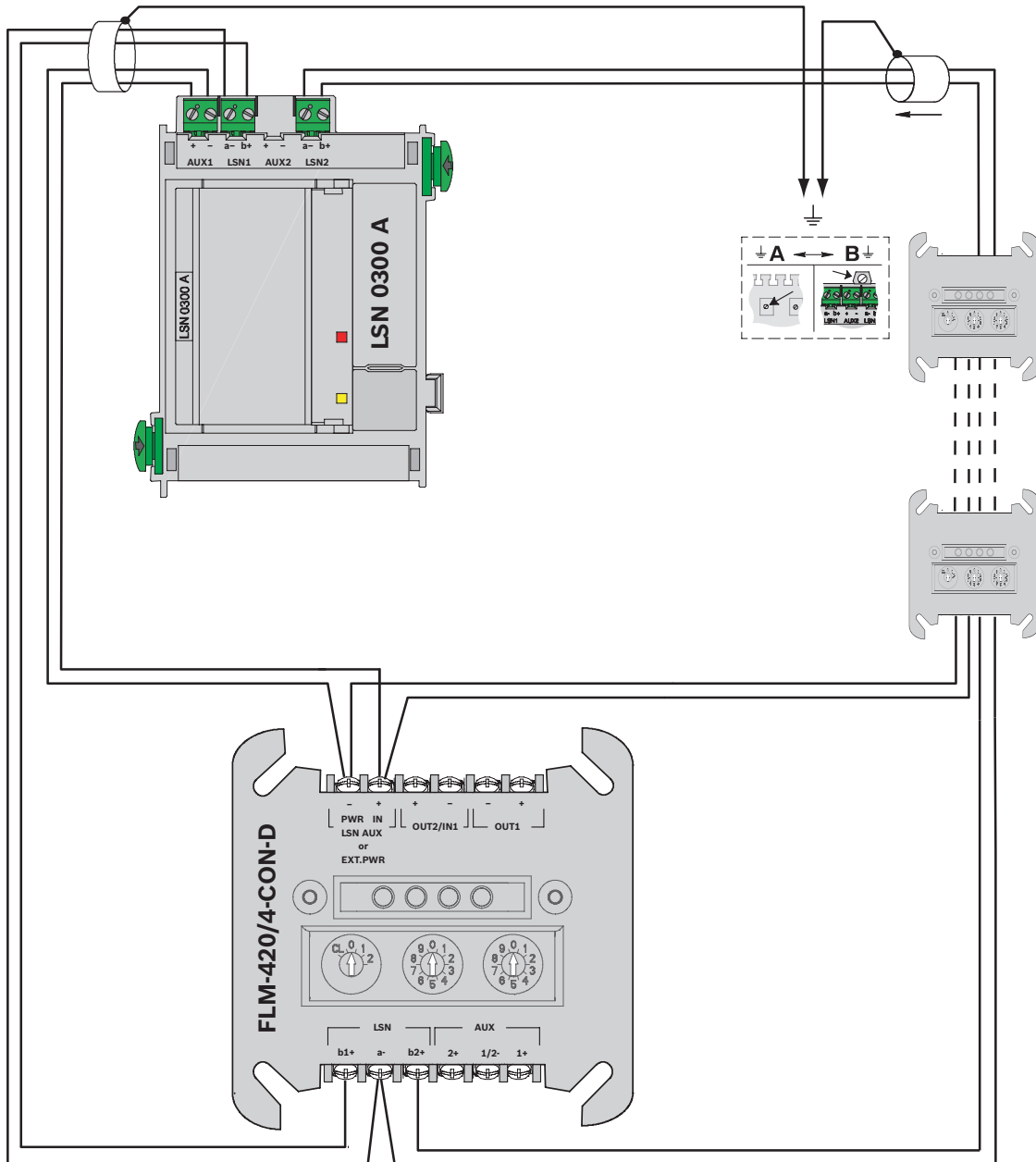
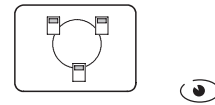
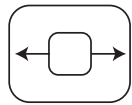
ATB 420 LSNi





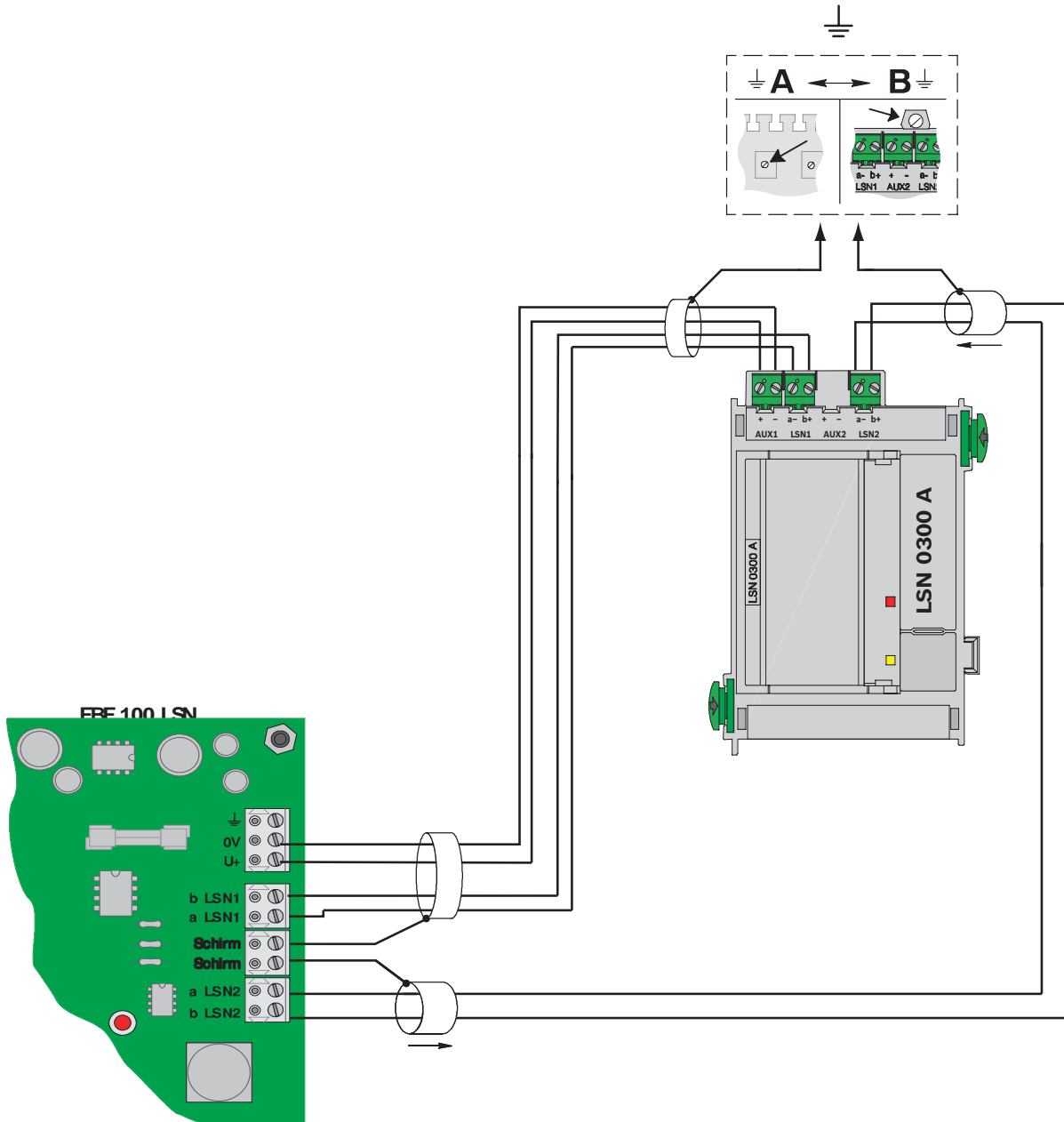
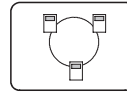
BAT 100 LSN
ATG 420 LSNi

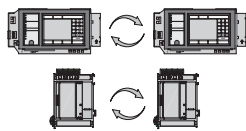




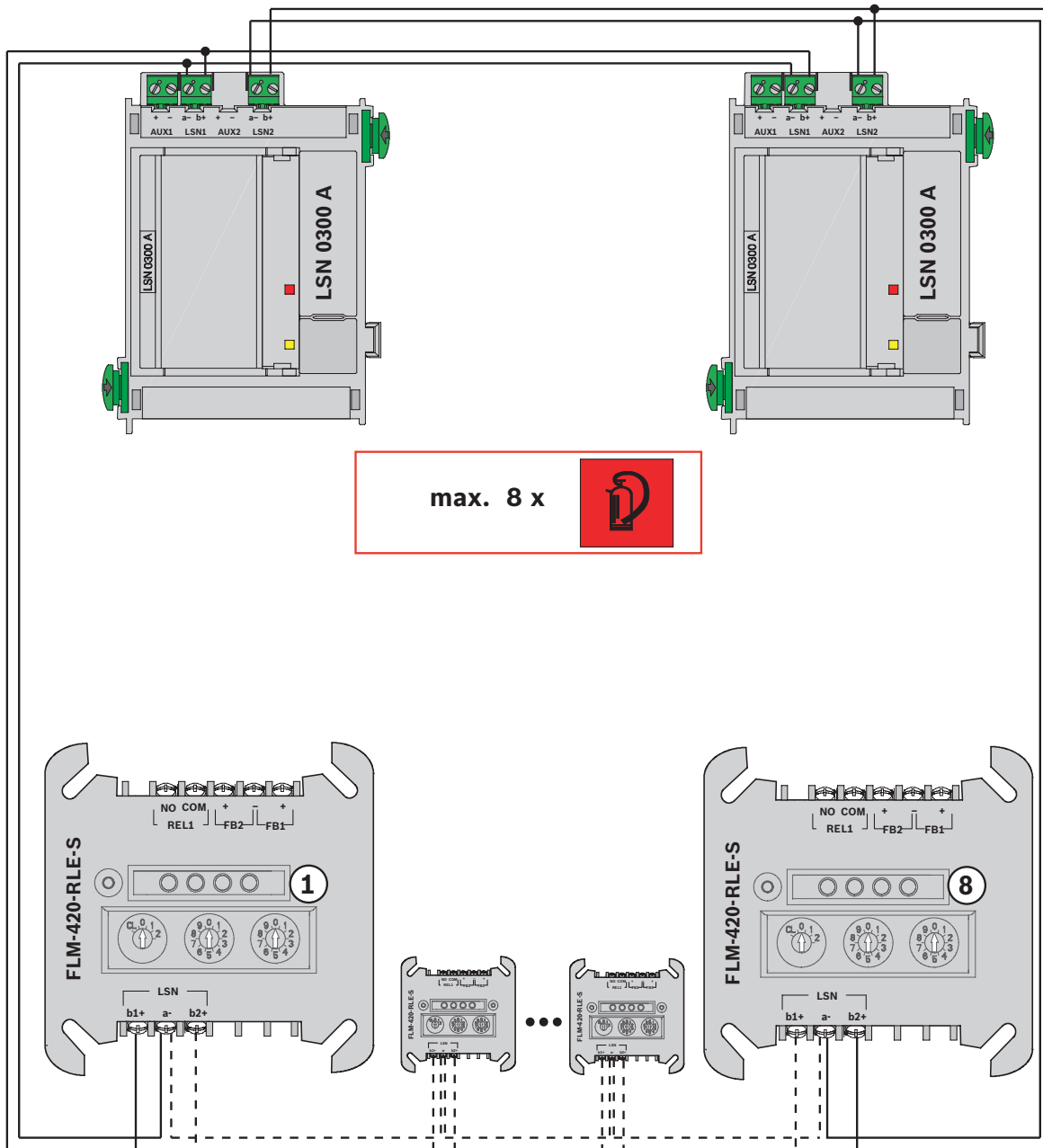
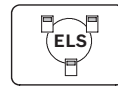


FBF 100 LSN



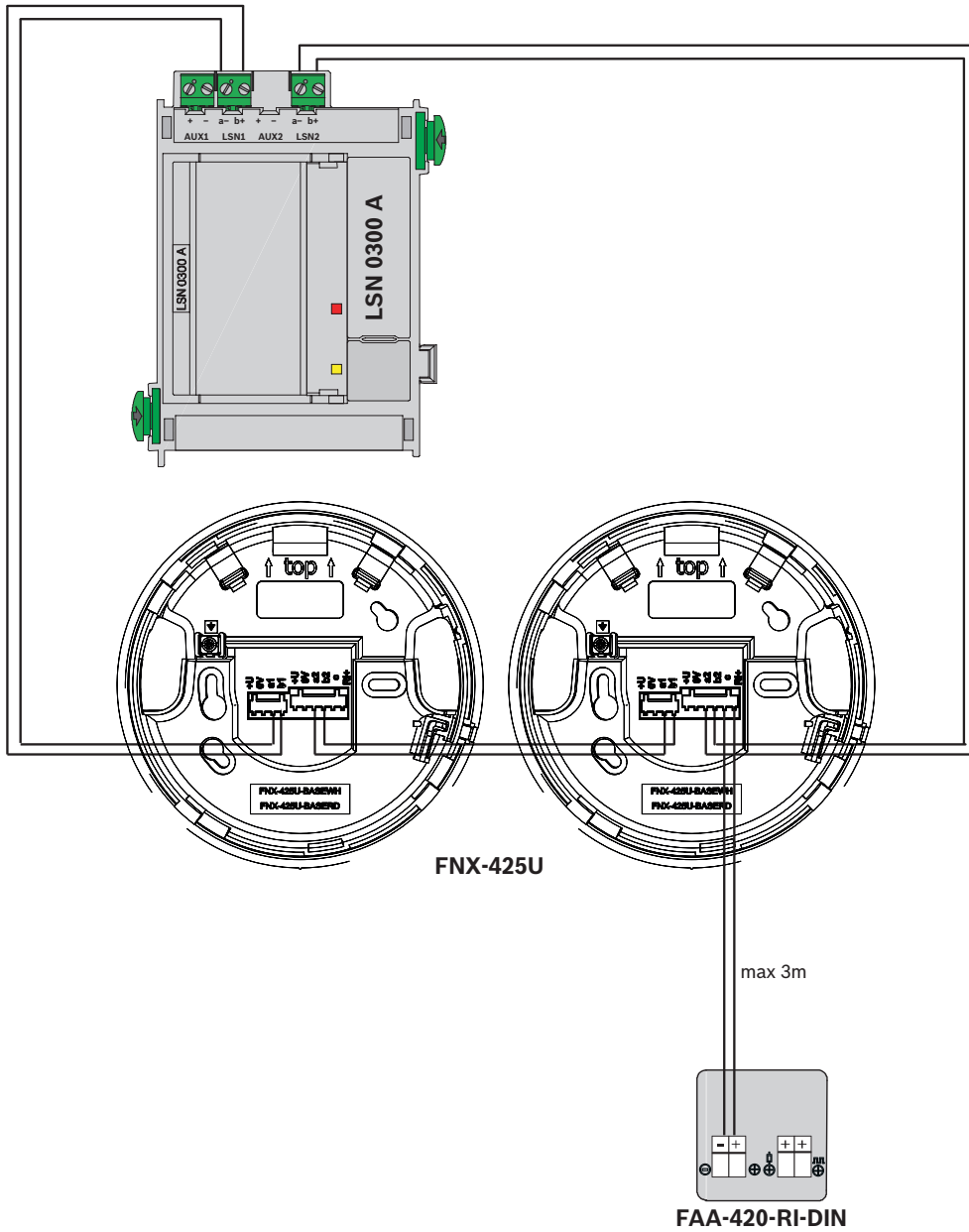
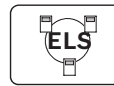


FLM-420-RLE-S





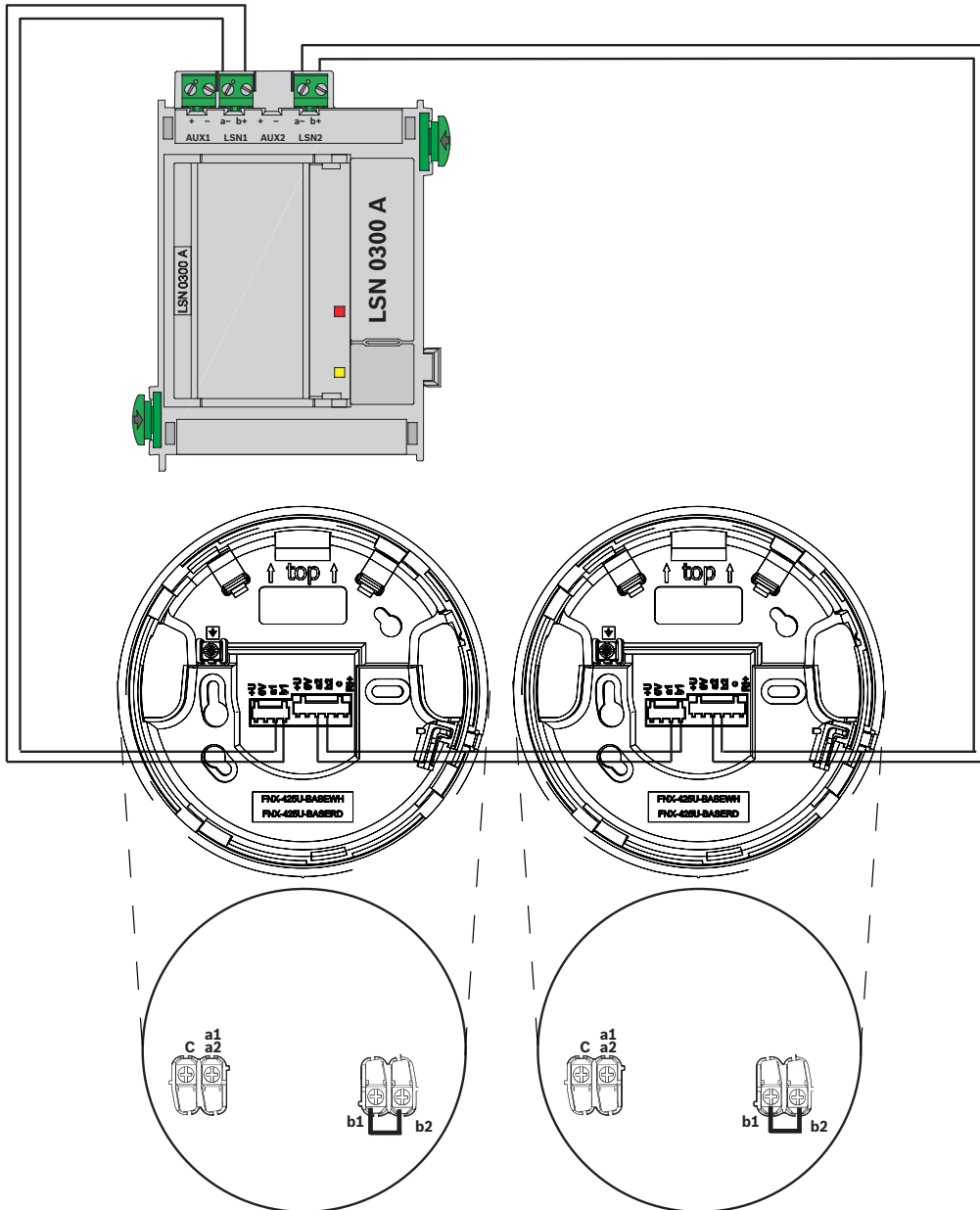
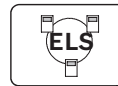
FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD

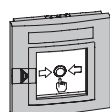
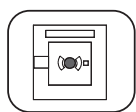




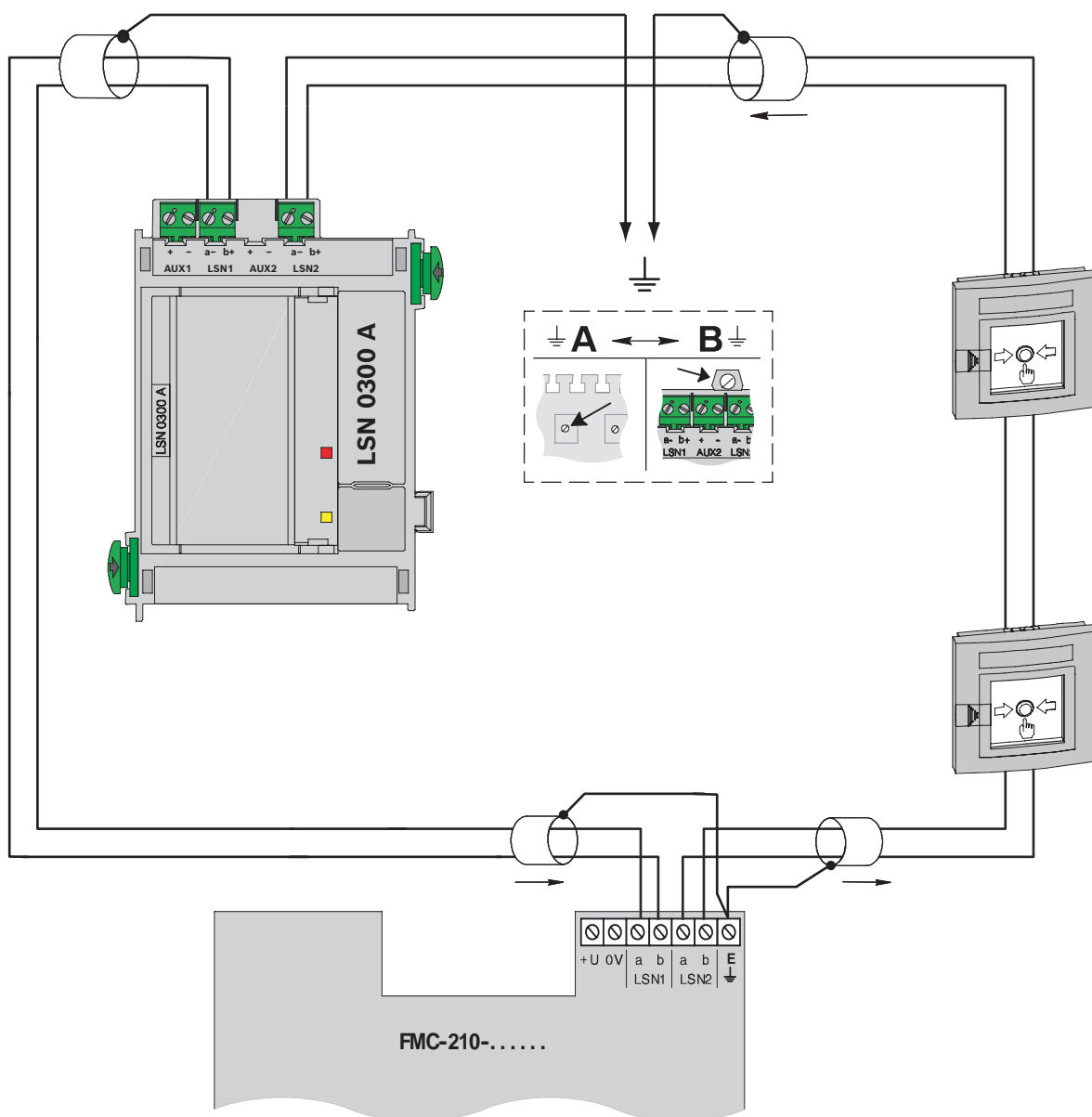
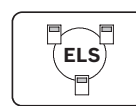
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

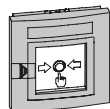
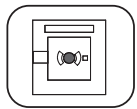
+ FNX-425U-COVWH
 FNX-425U-COVRD



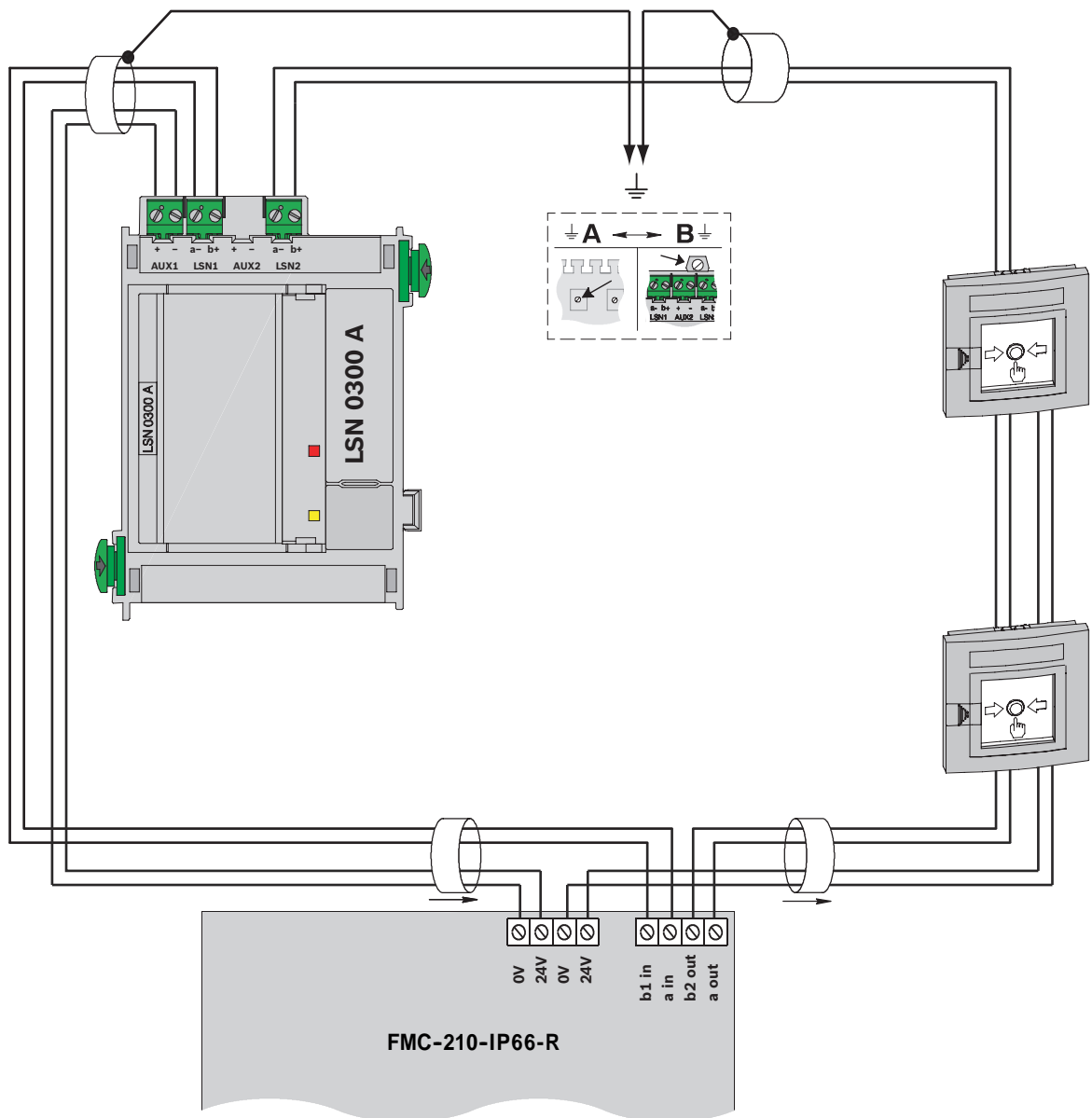
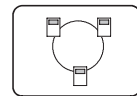


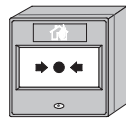
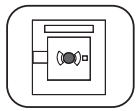
FMC-210...



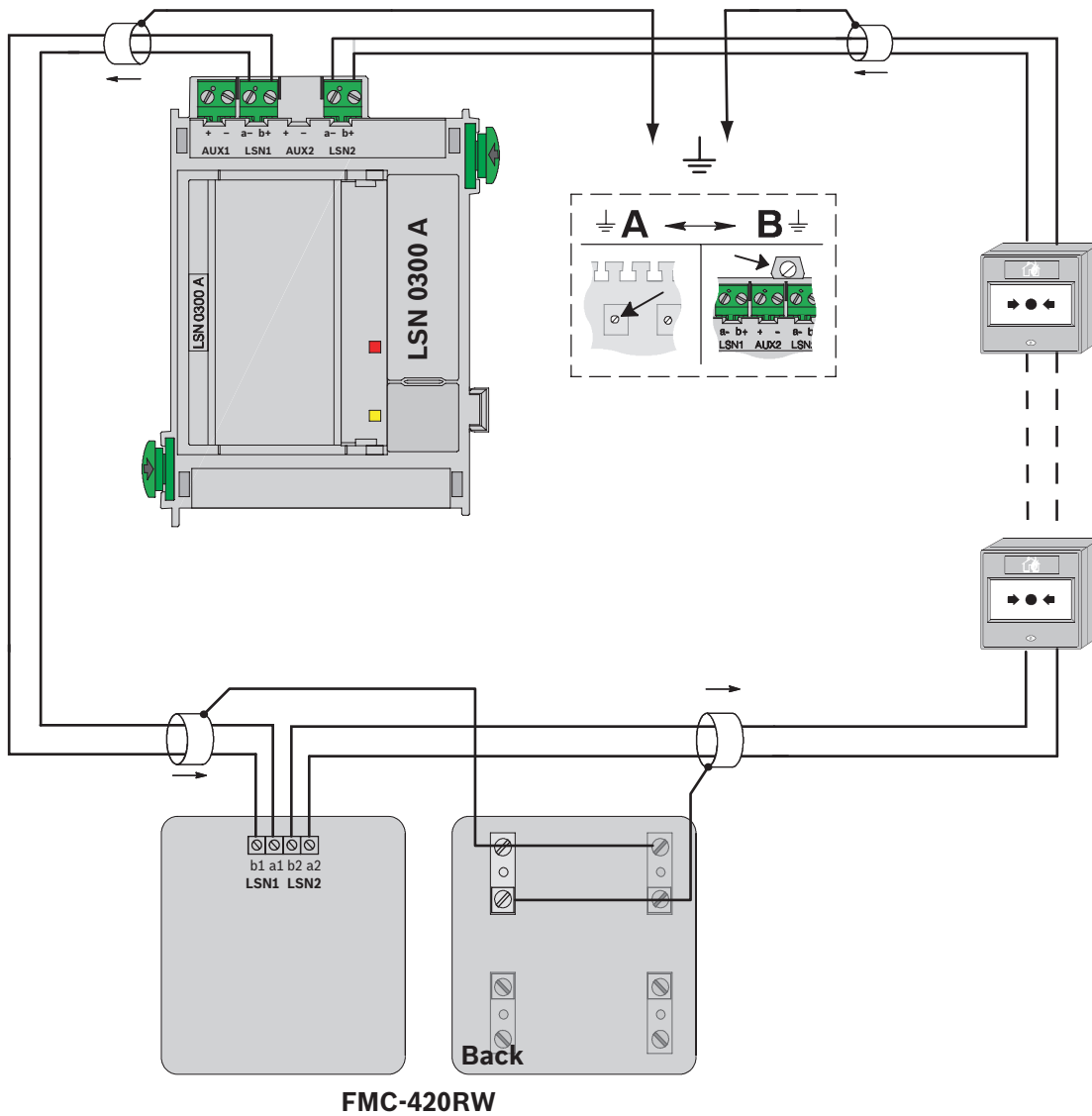
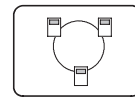


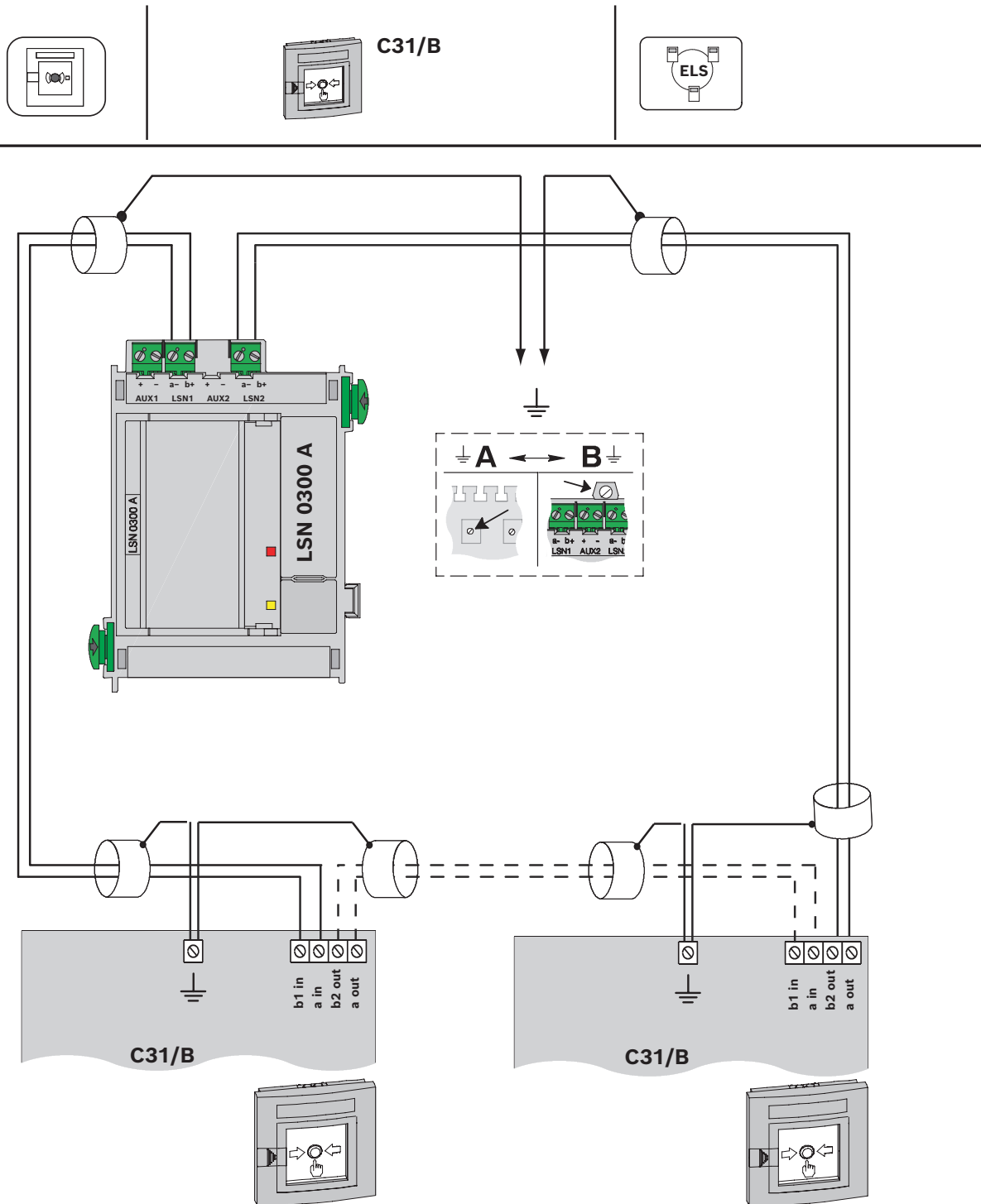
FMC-210-IP66-R

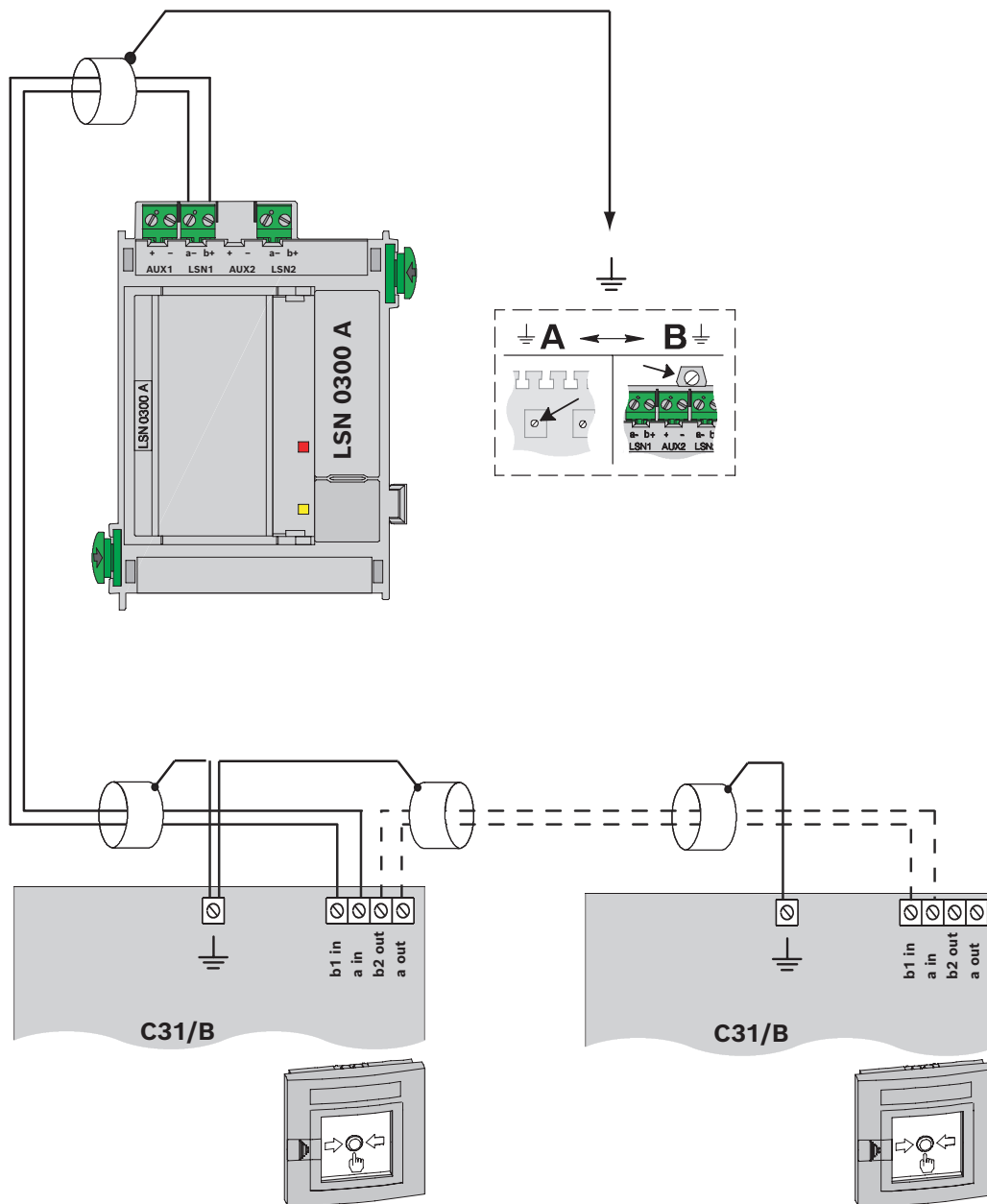
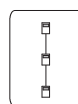
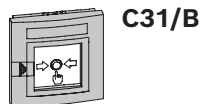
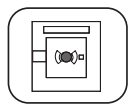


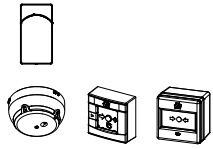


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD



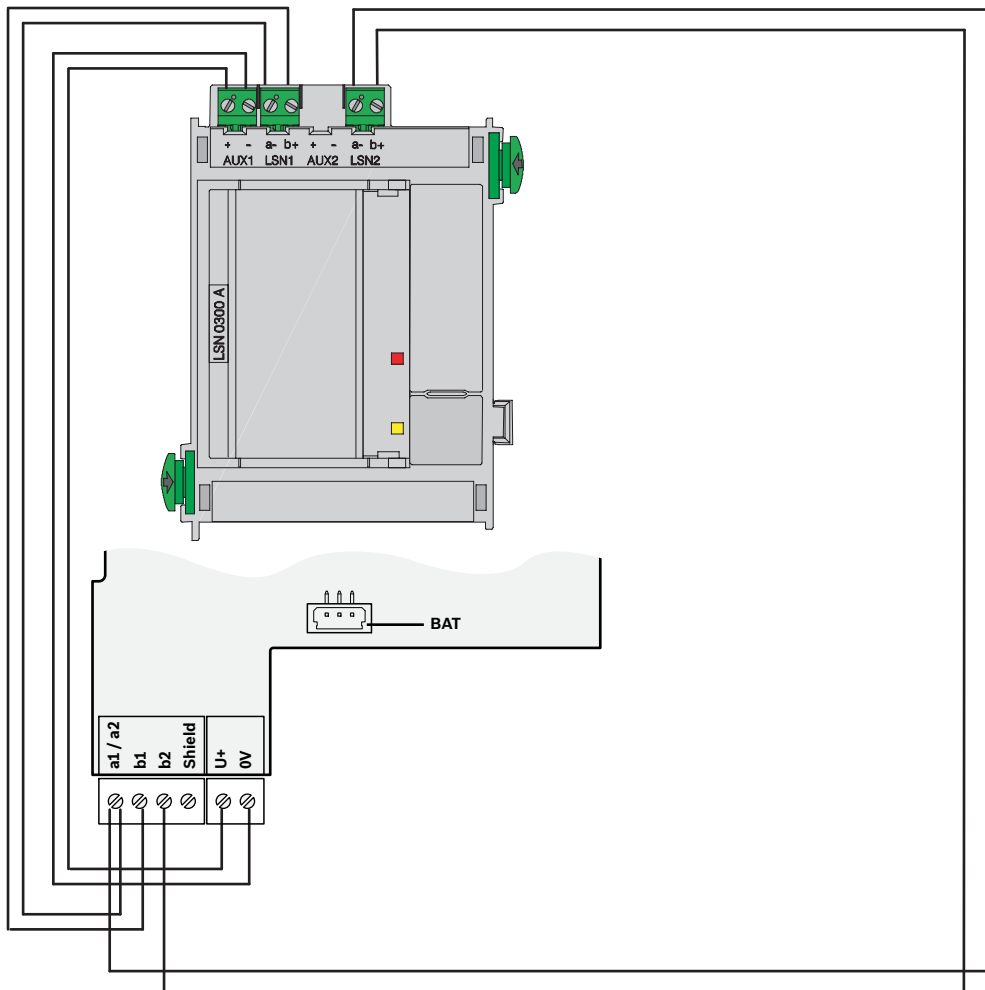
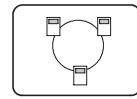






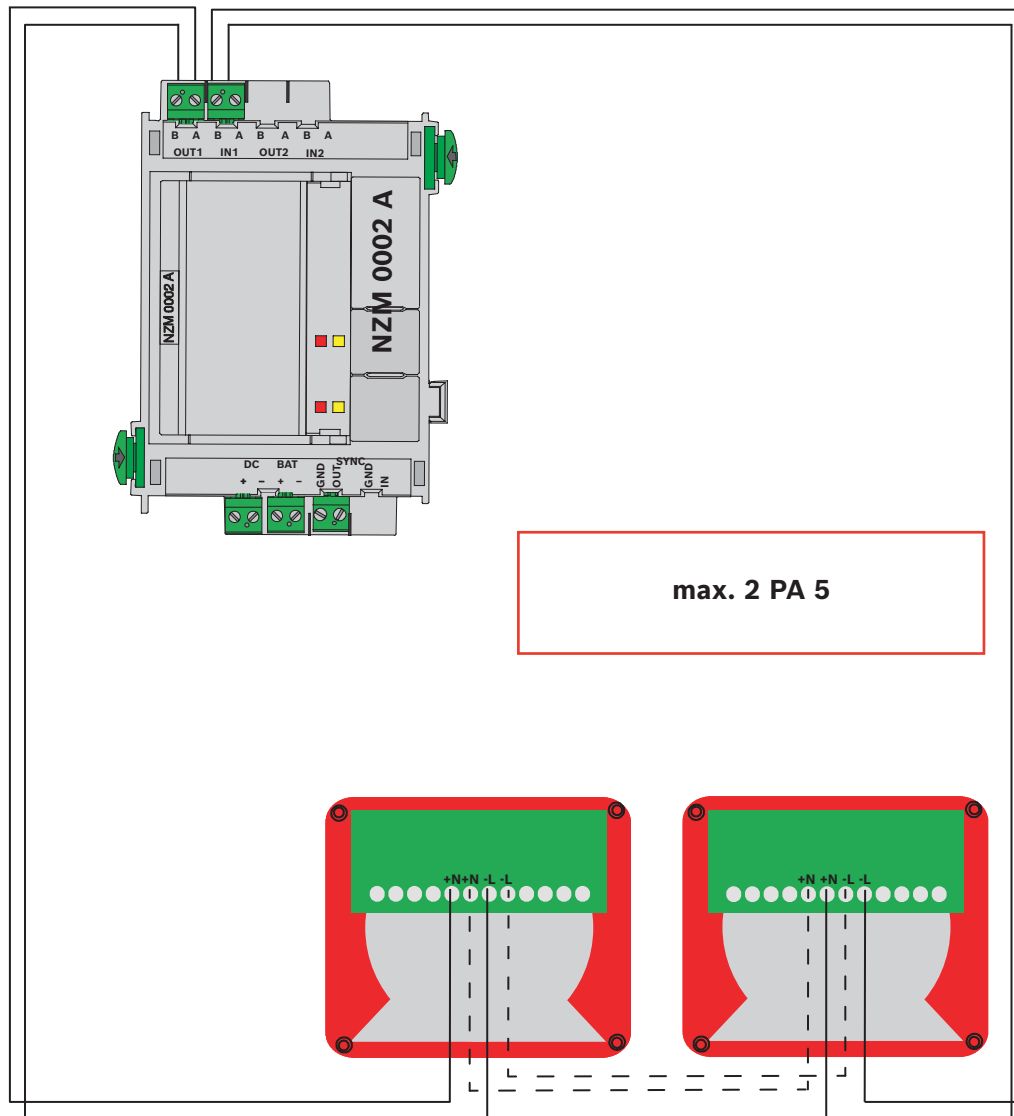
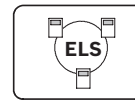
FWI-270

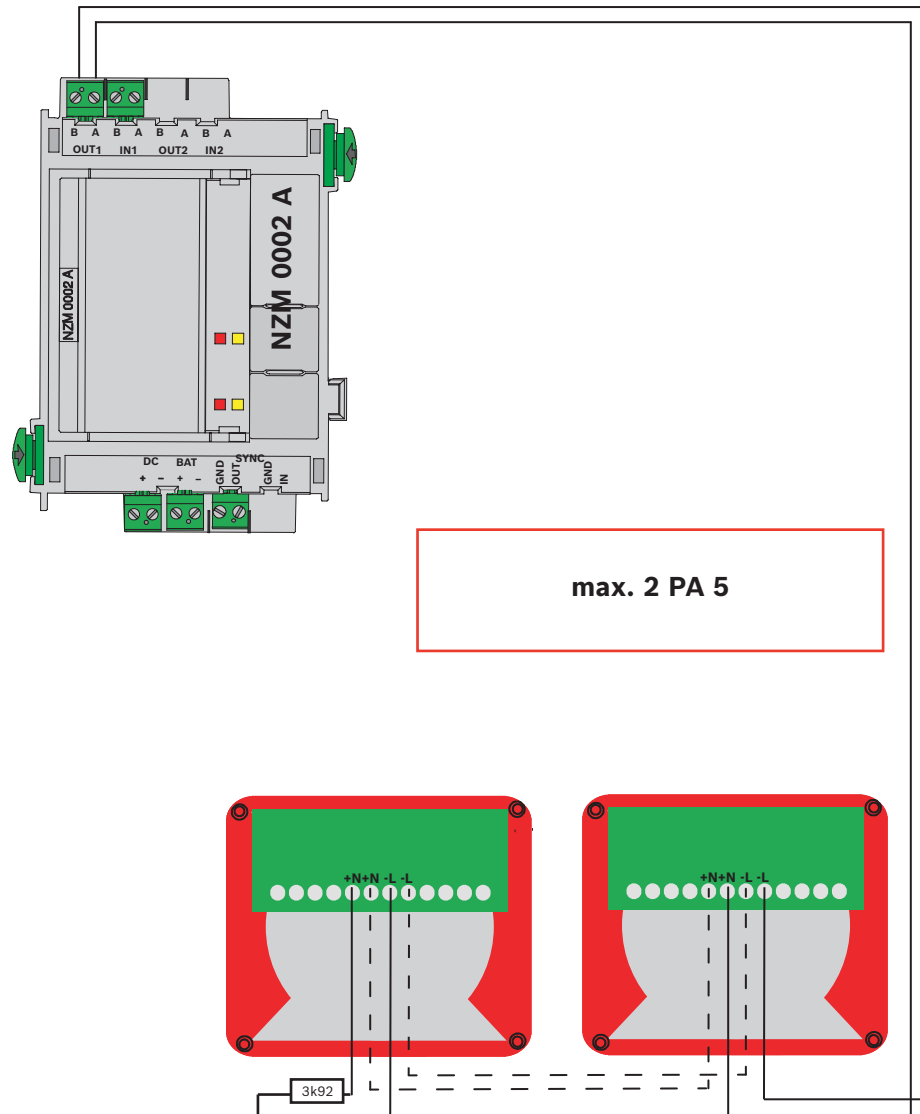
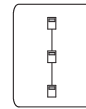
FDOOT271-O
FDM275-O
FDM273-O

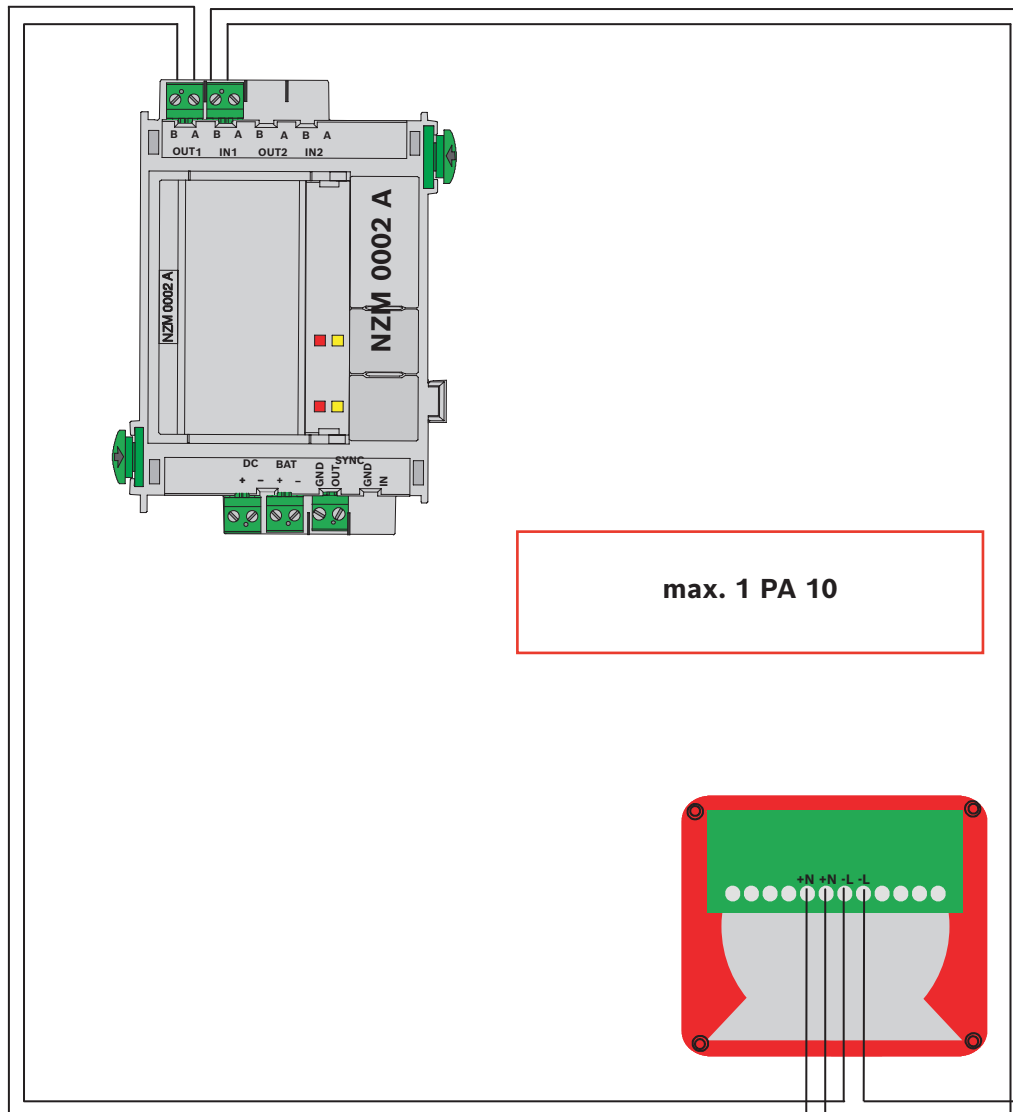
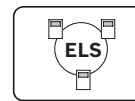


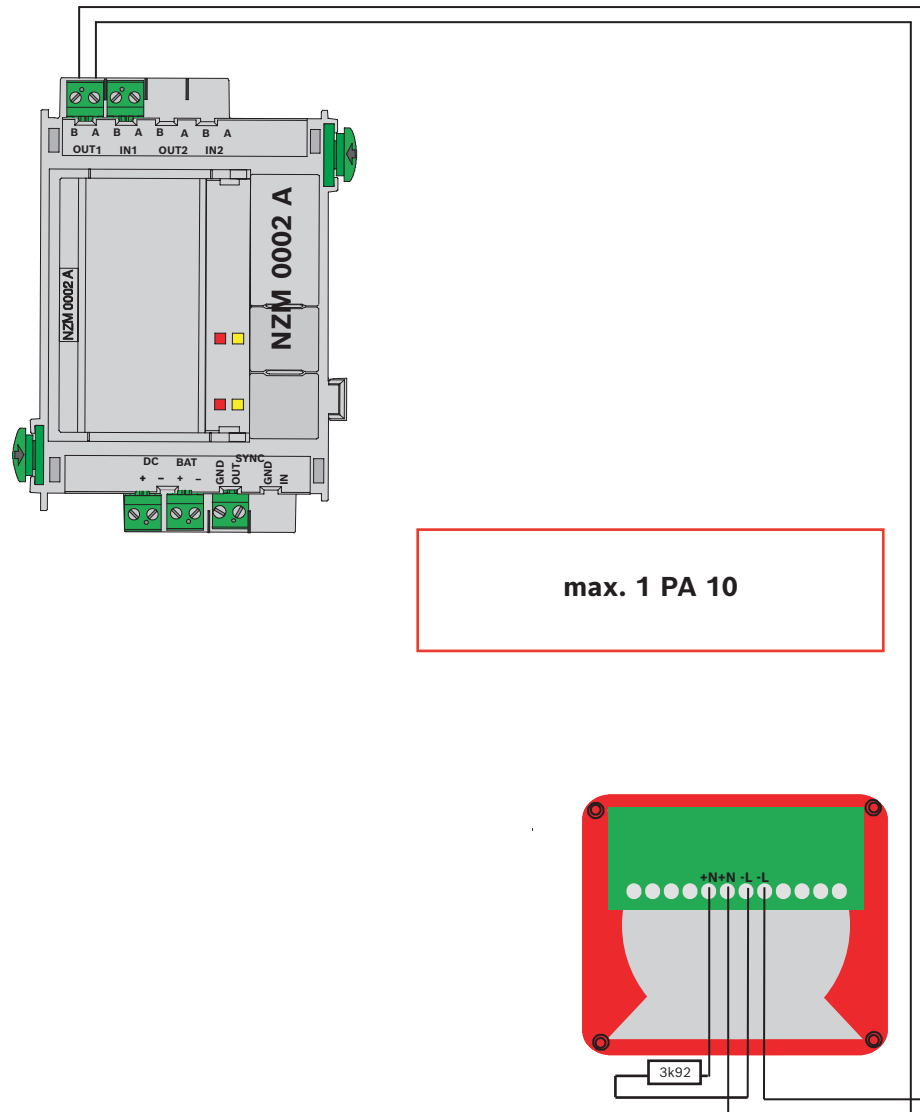
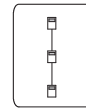
2.4.5

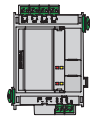
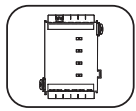
NZM 0002 A



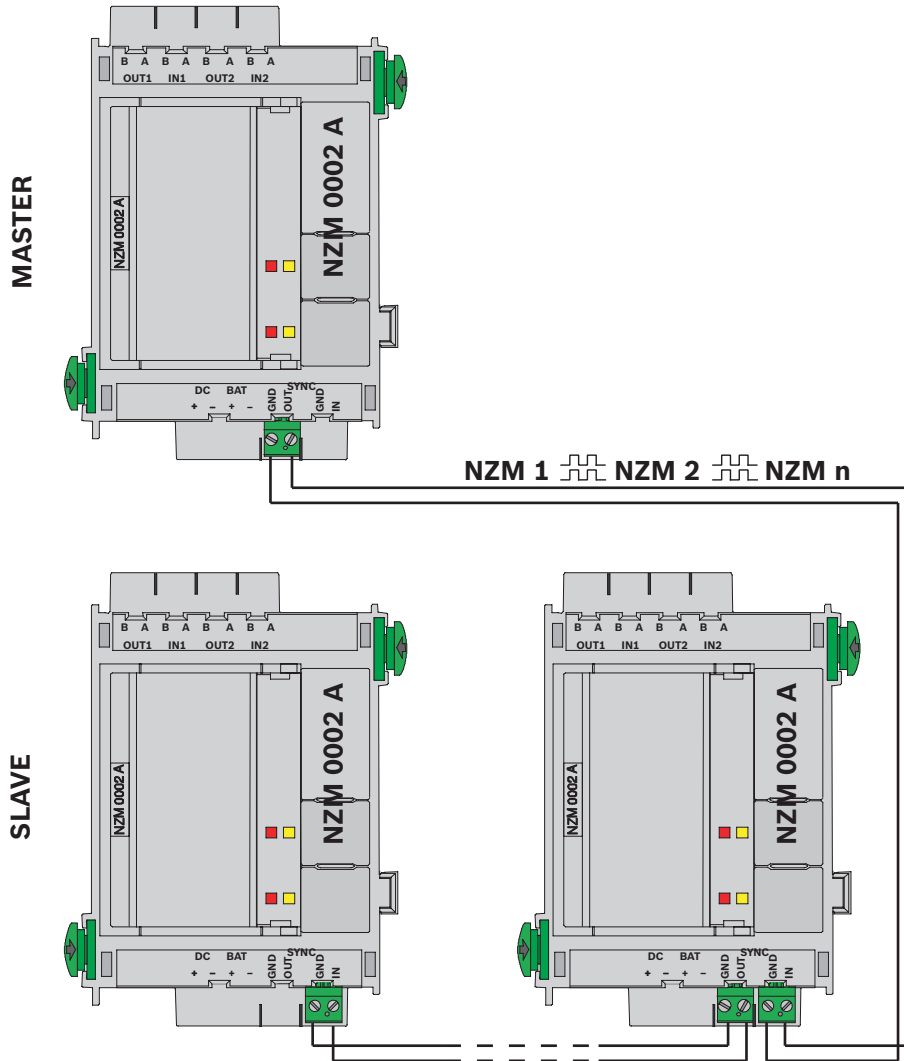


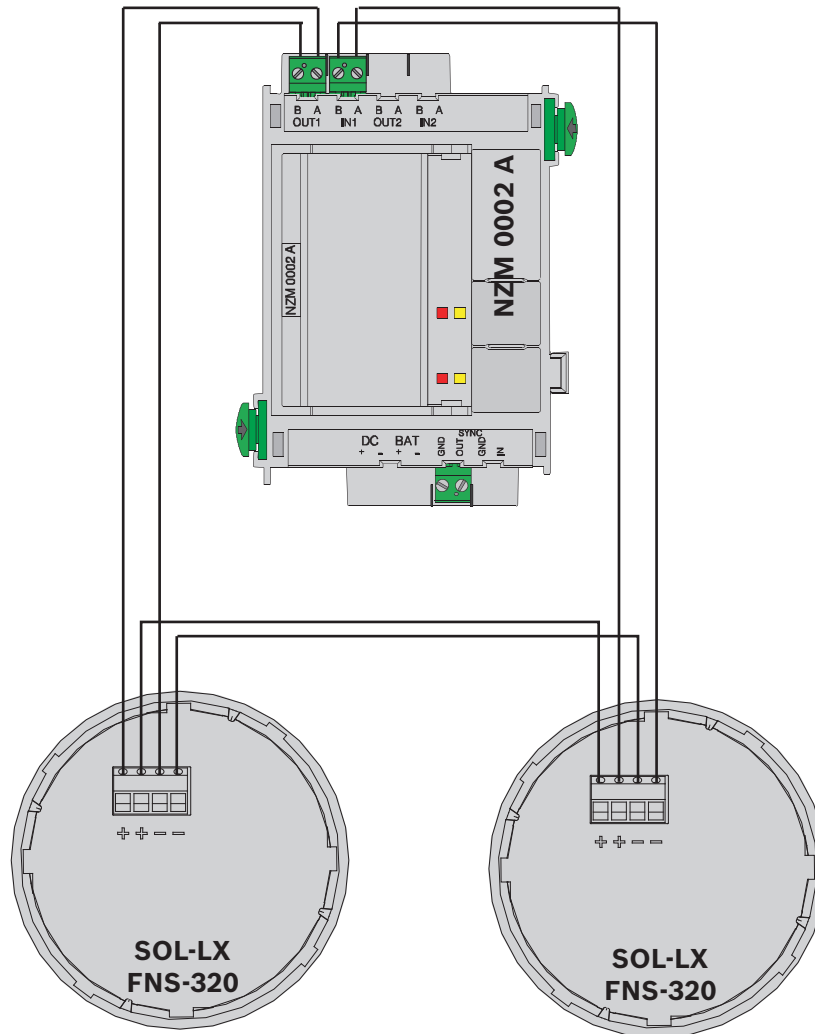
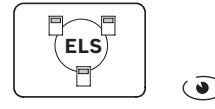


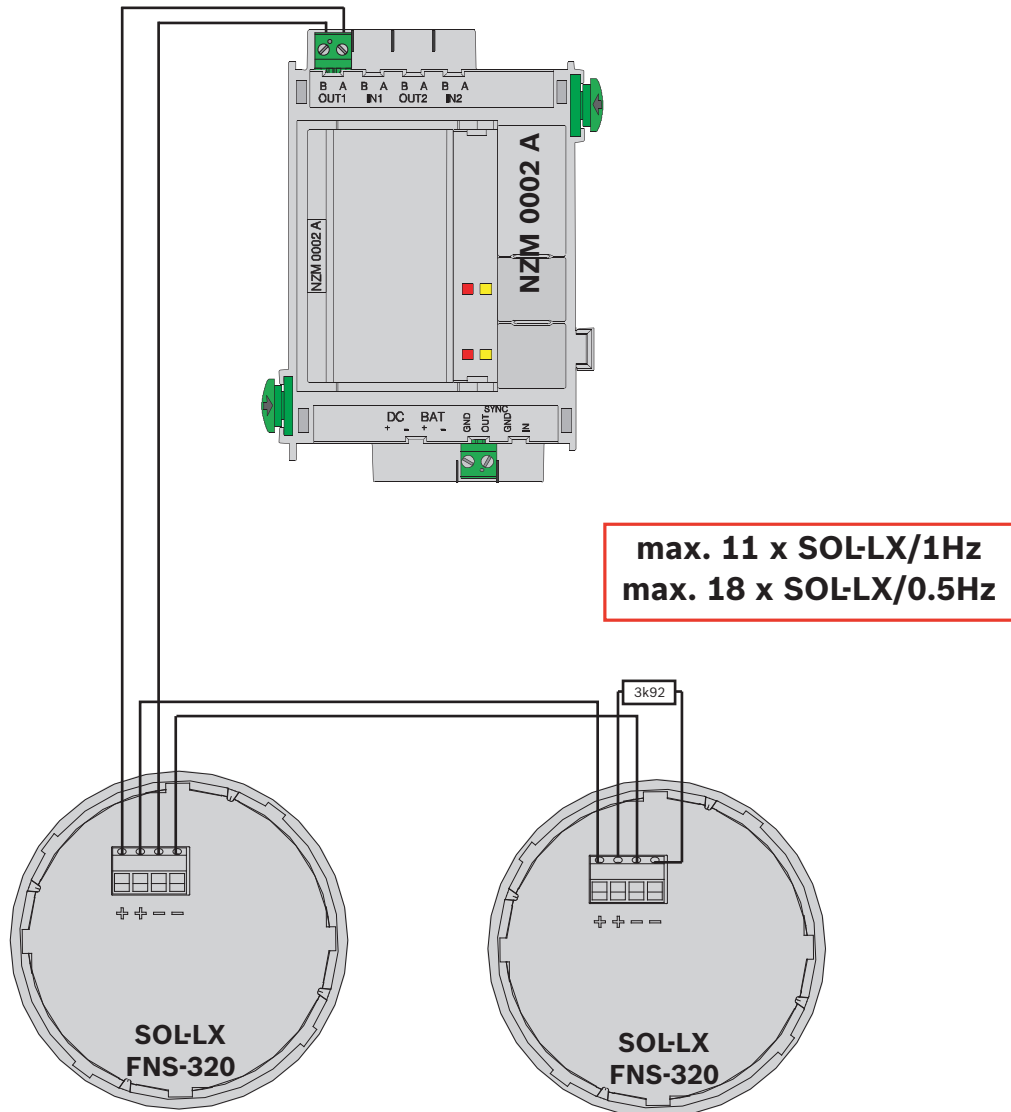
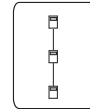


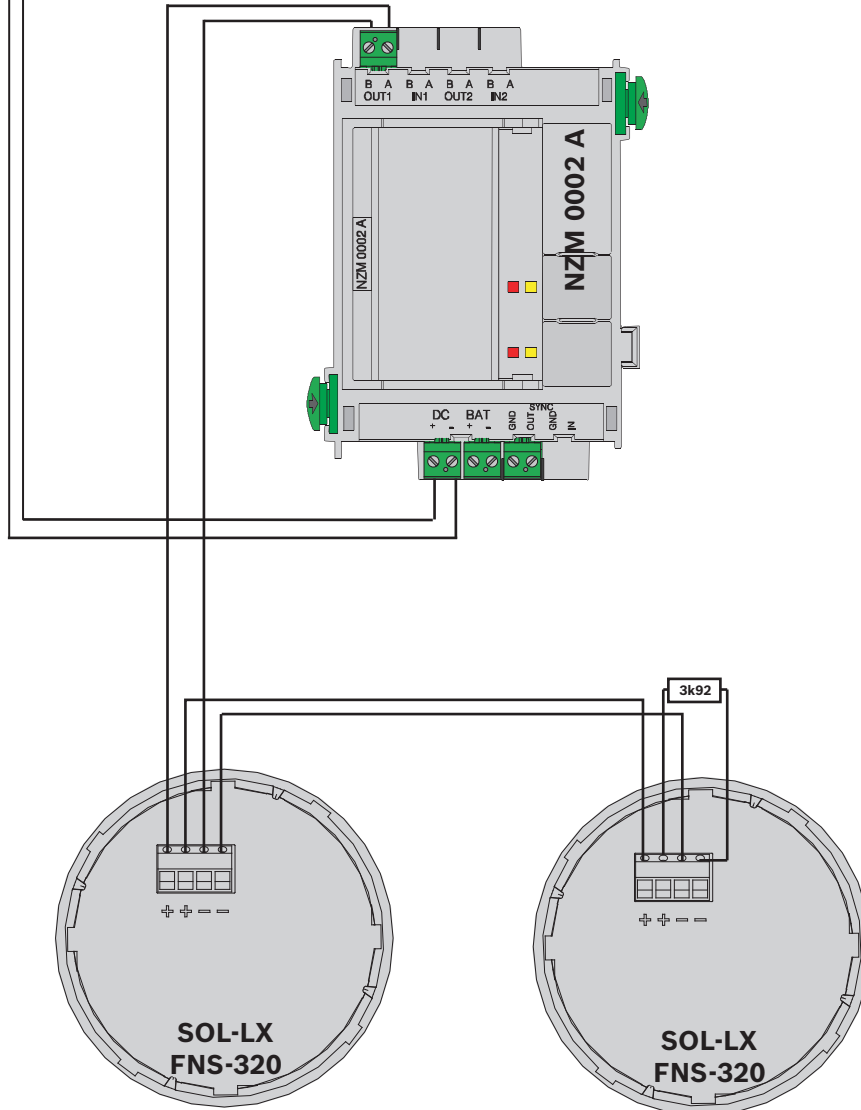
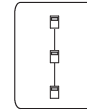


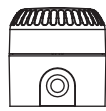
NZM 0002 A



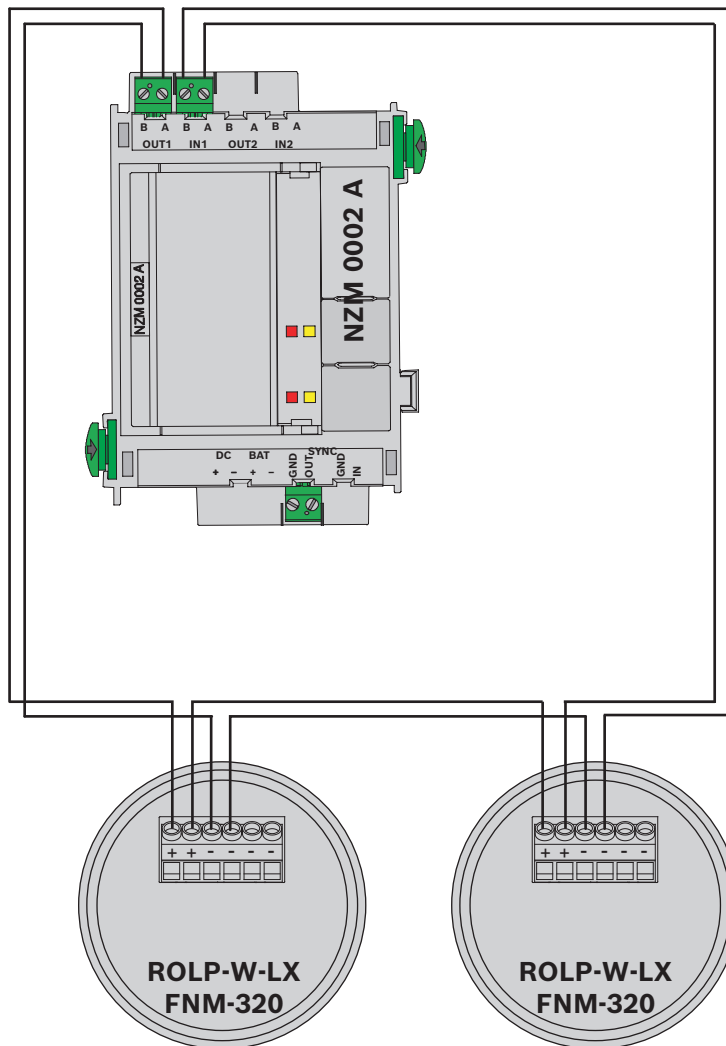
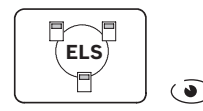


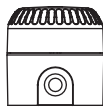




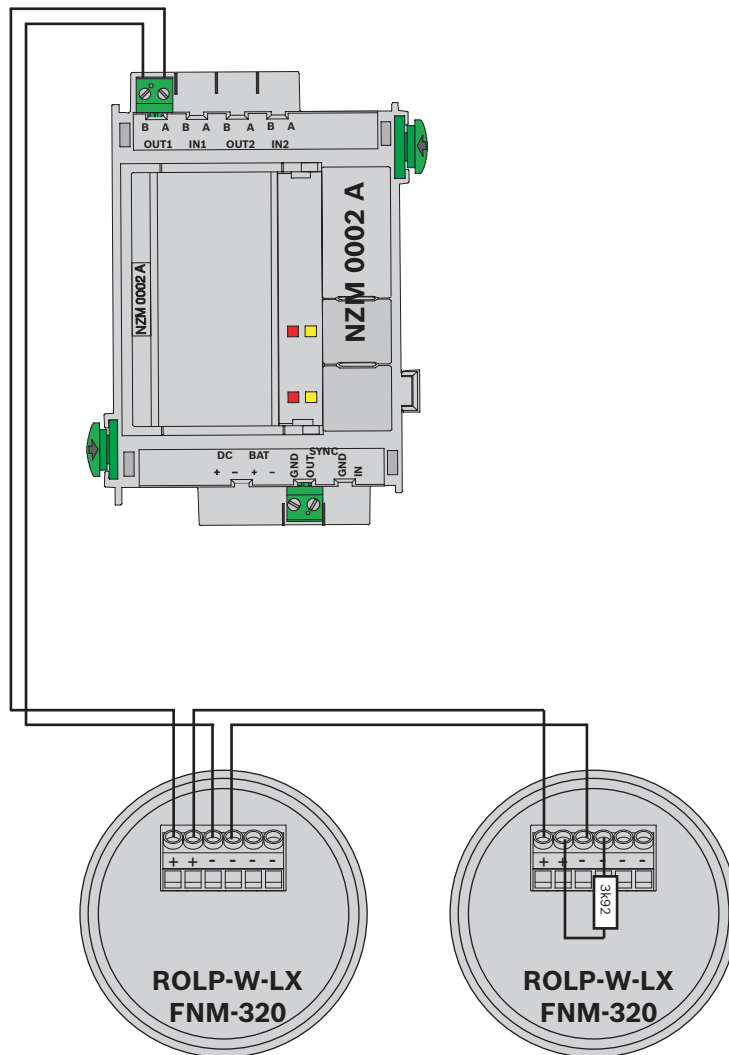
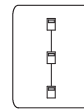


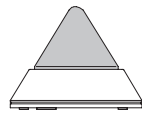
**ROLP-W-LX
FNM-320**



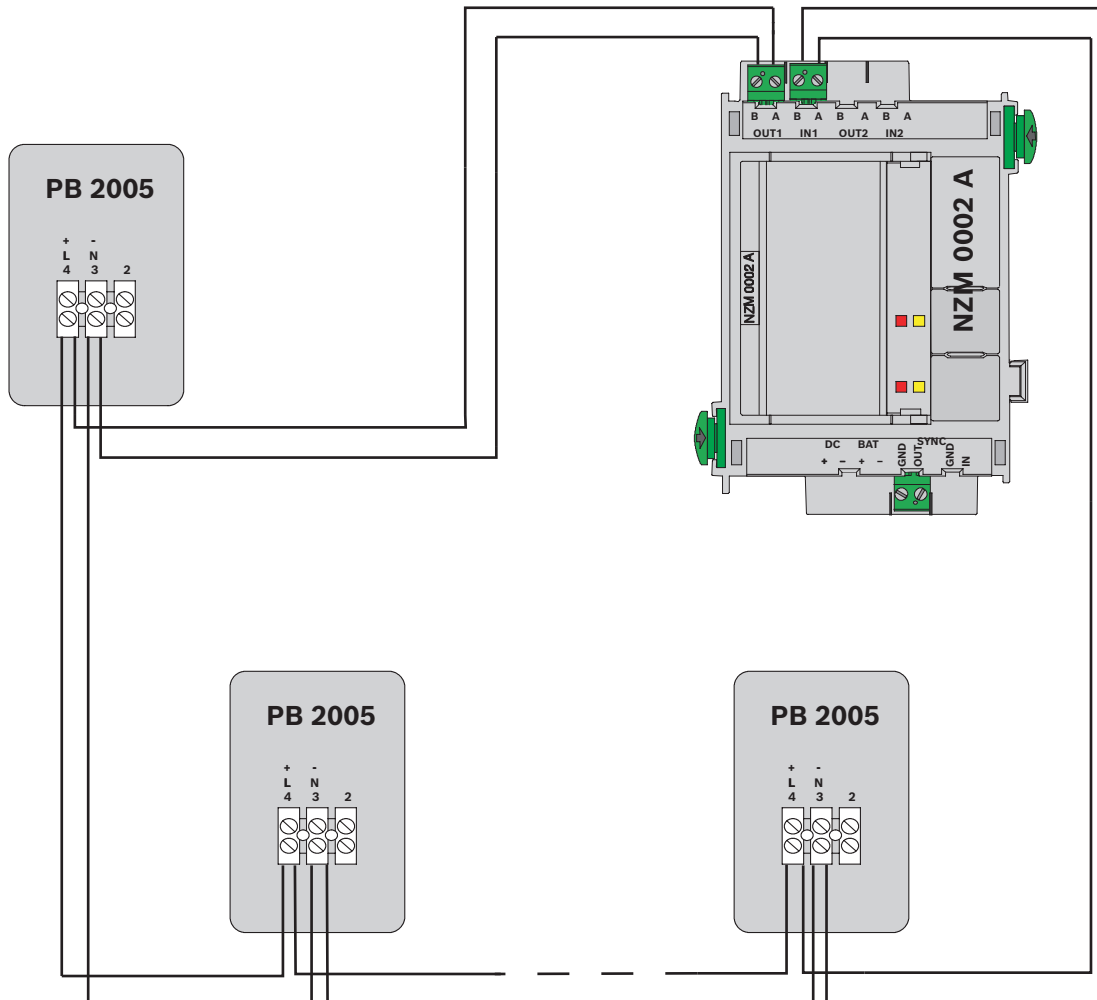
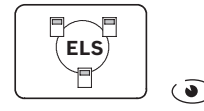


**ROLP-W-LX
FNM-320**



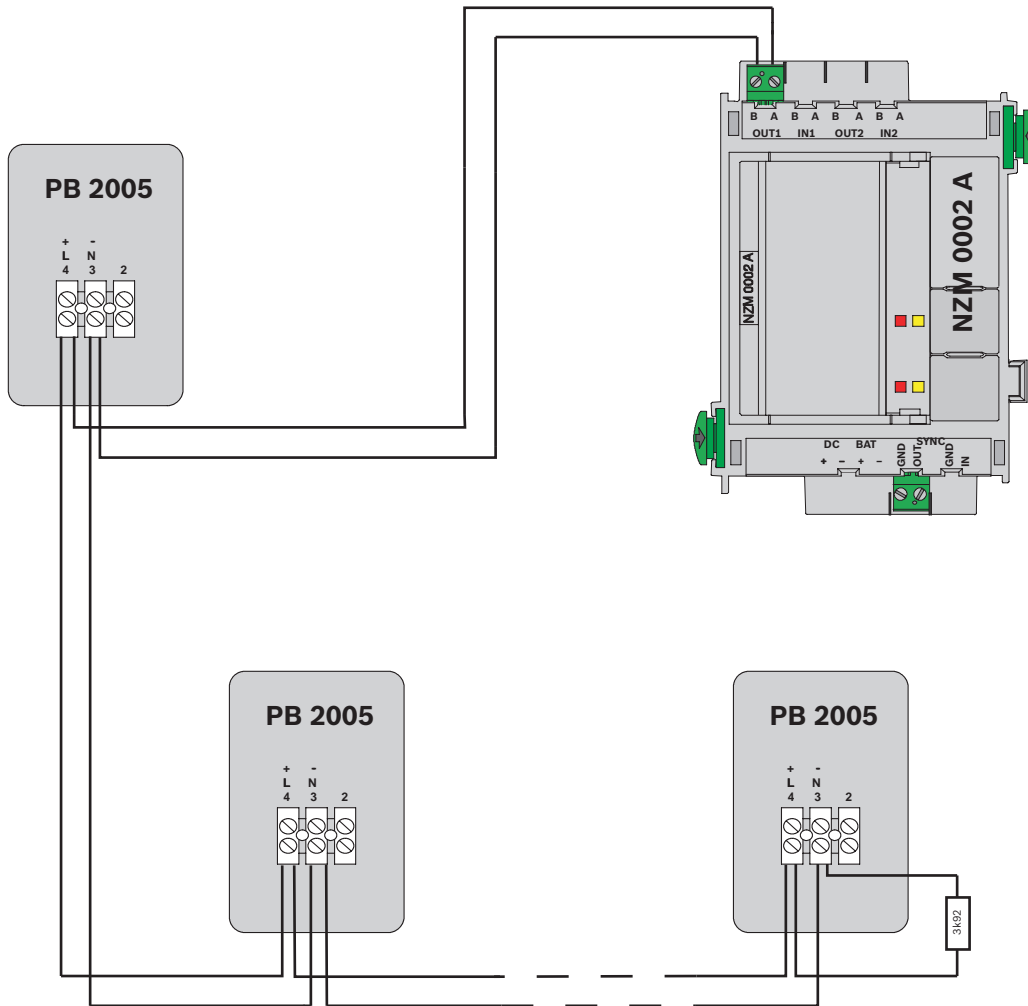
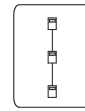


PB 2005



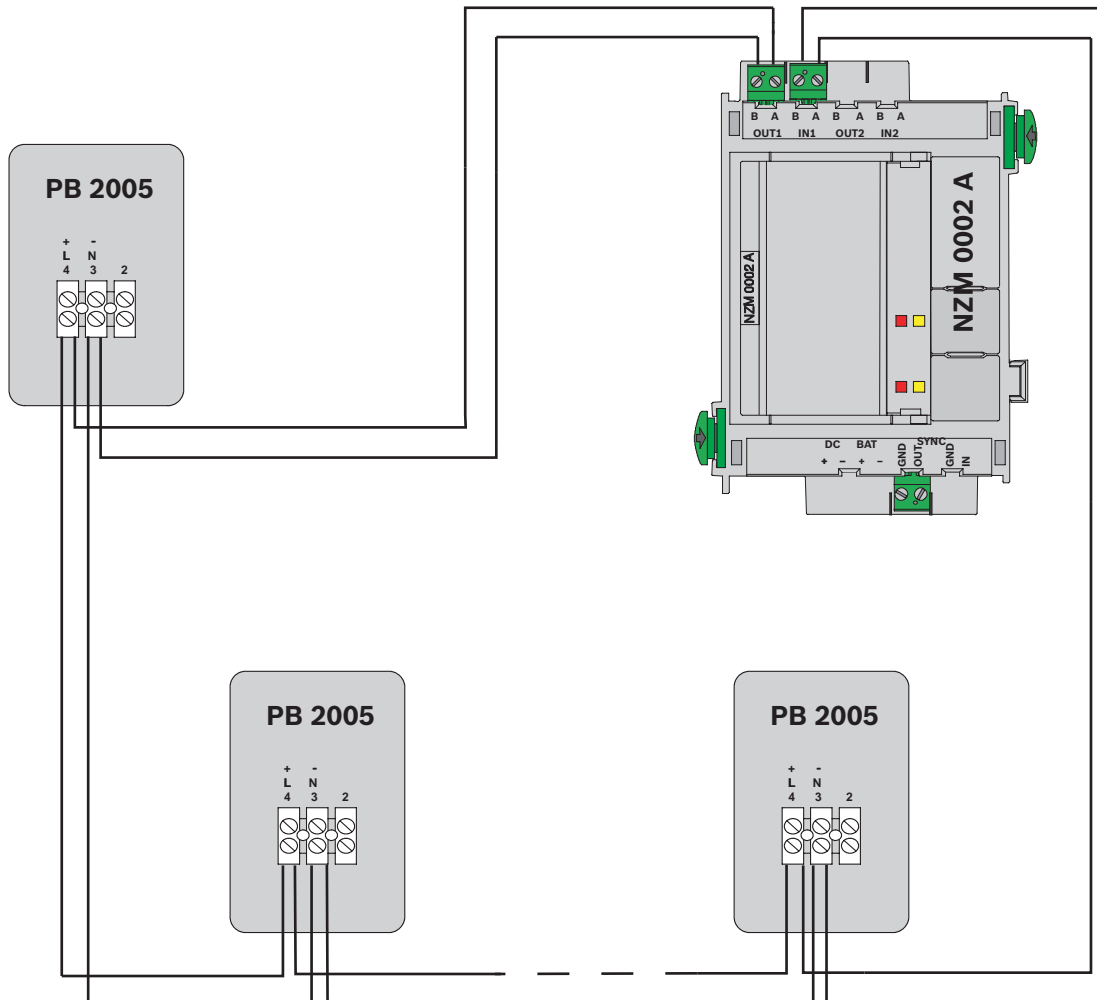
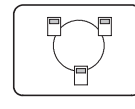


PB 2005



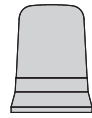


PB 2005

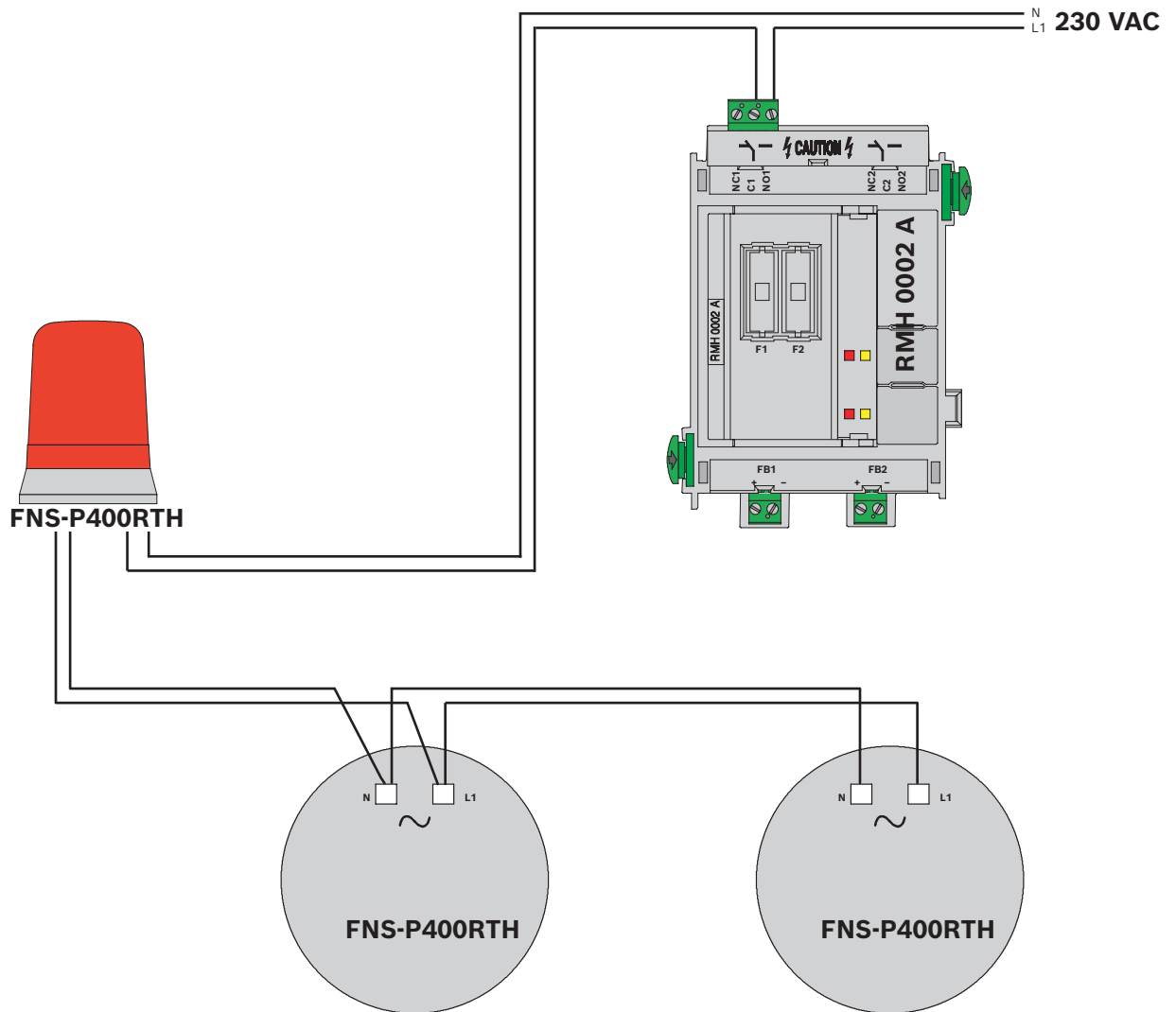
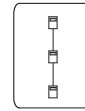


2.4.6

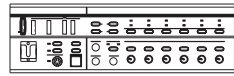
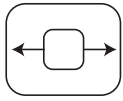
RMH 0002 A



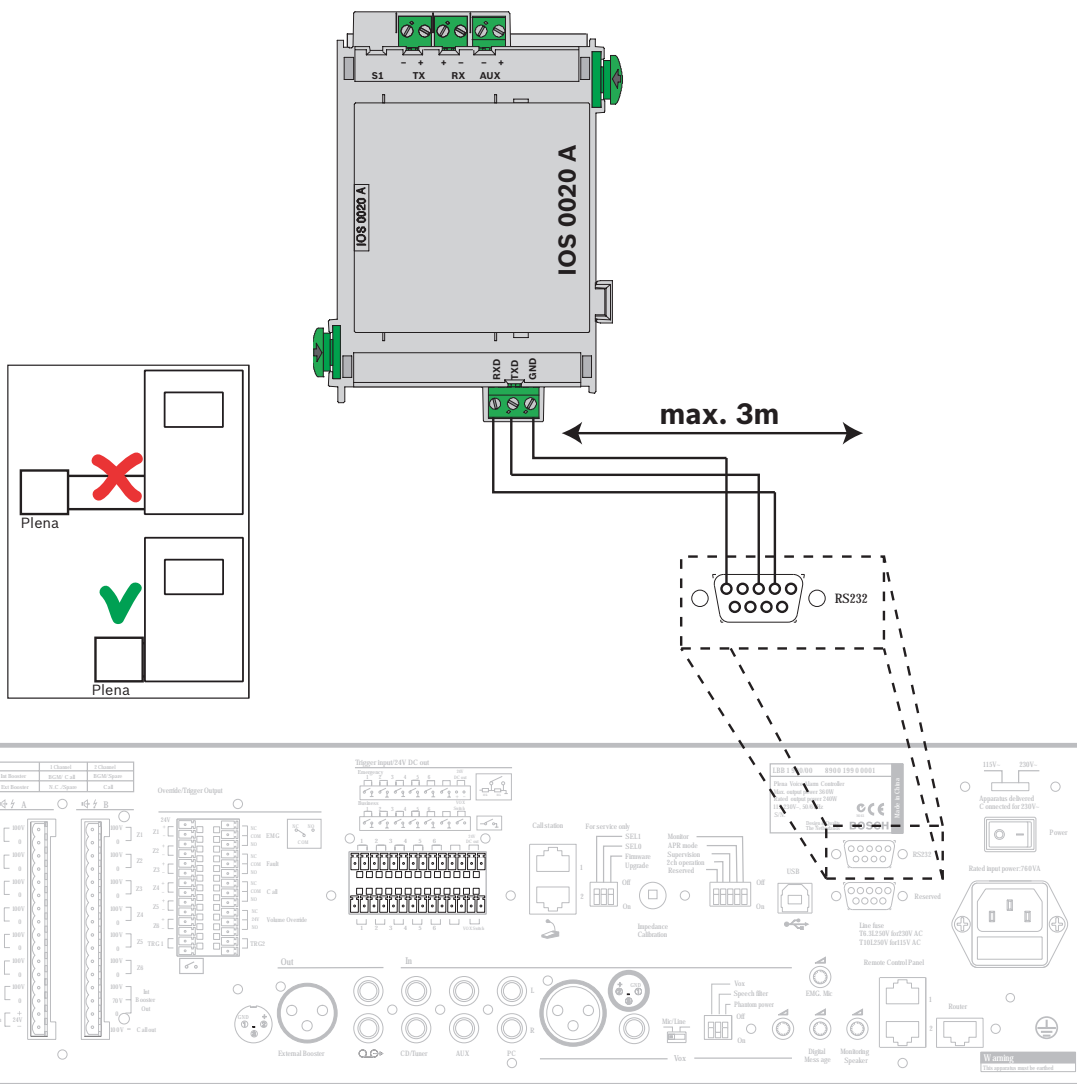
FNS-P400RTH



2.4.7 IOS 0020 A



Plena



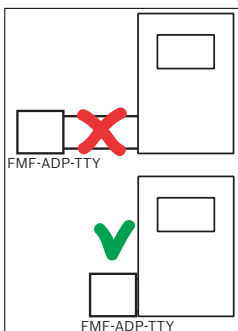
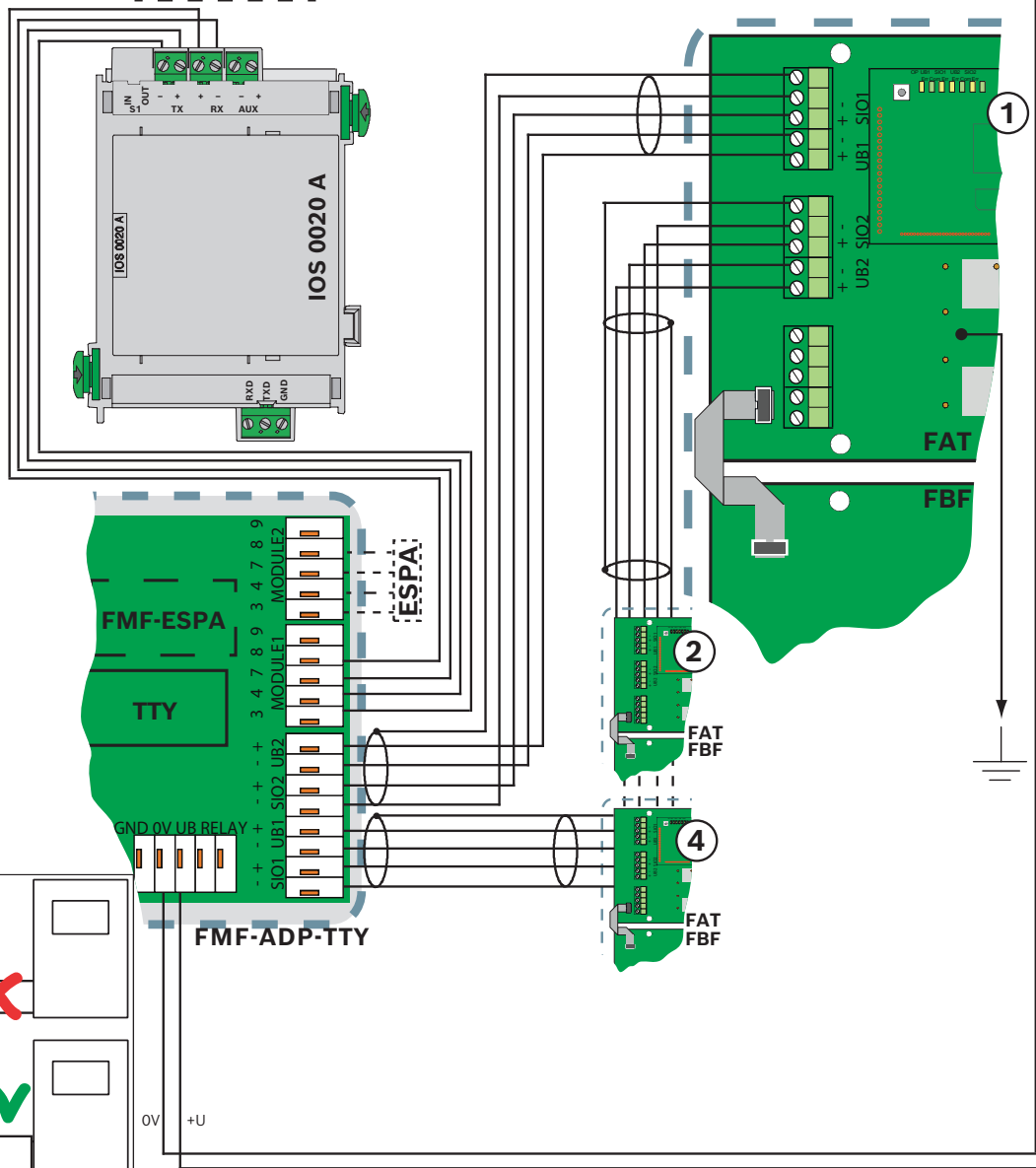


FAT4000 FBF4000 ADP4000

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

ELS

BCM-000-B

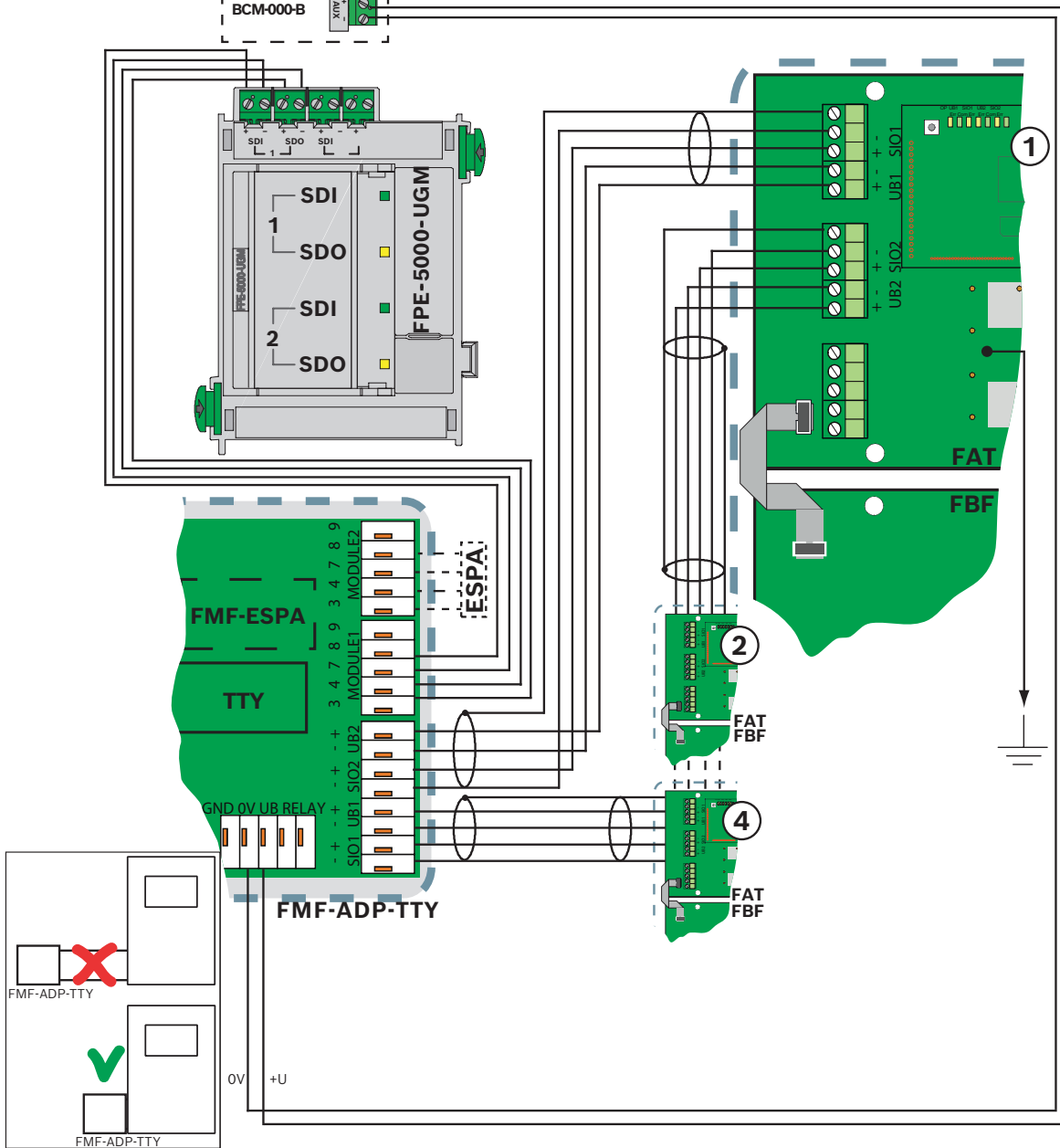


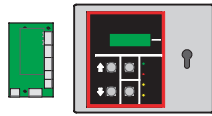
2.4.8 FPE-5000-UGM



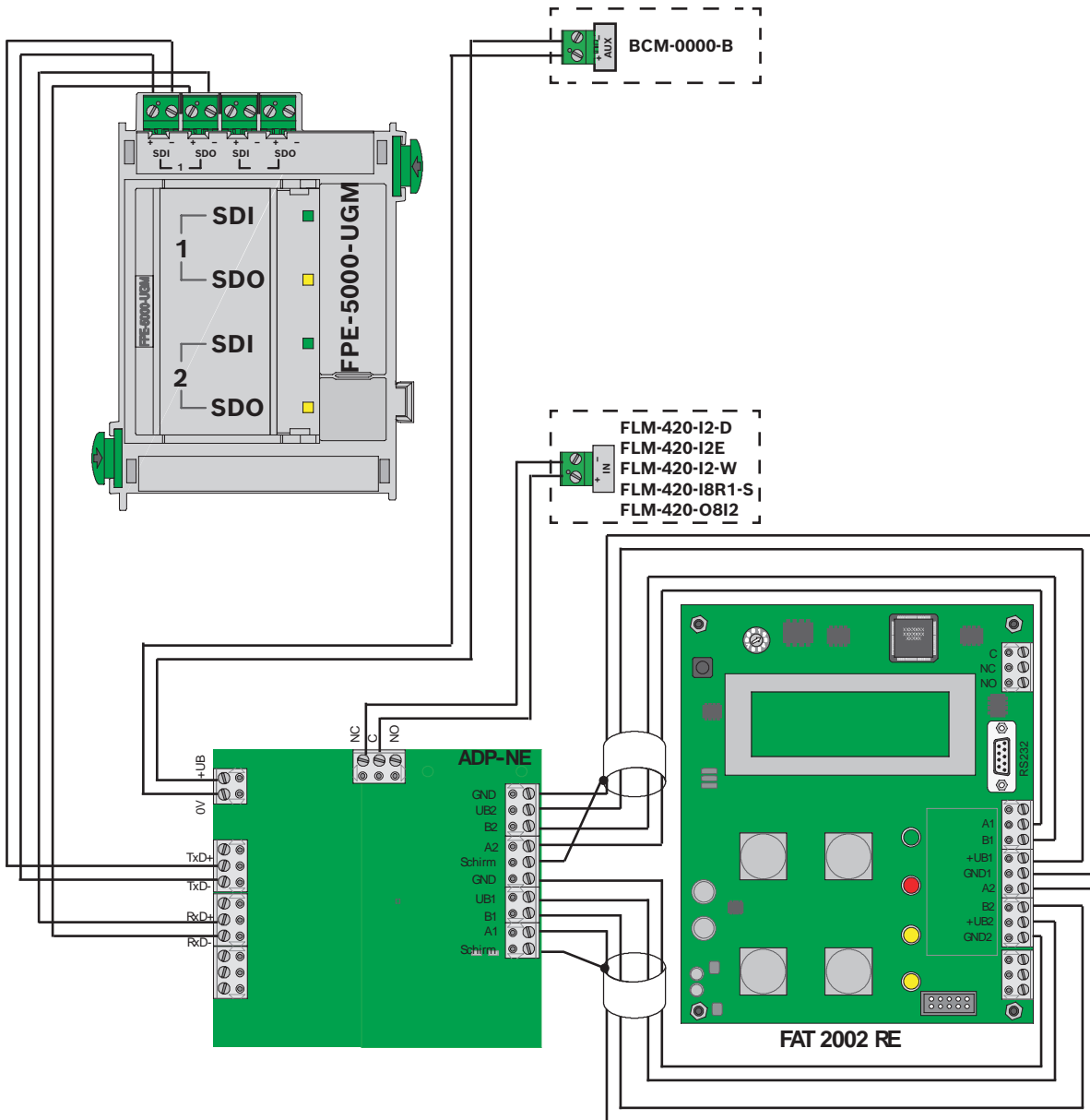
FAT4000 FBF4000 ADP4000
 FMF-FAT FMF-FBF-FAT
 FMF-FIBS-A4/-A3
 FMF-ADP

ELS





**FAT2002RE
ADP-NE**



2.5 Interface Modules



FLM-420-4/CON-D/S, stran 125

FLM-420-I8R1-S, stran 158

FLM-420-NAC-D/S, stran 160

FLM-420-RHV, stran 172

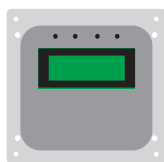
FLM-420-RLE-S, stran 184

FLM-420-RLV1-E, stran 185

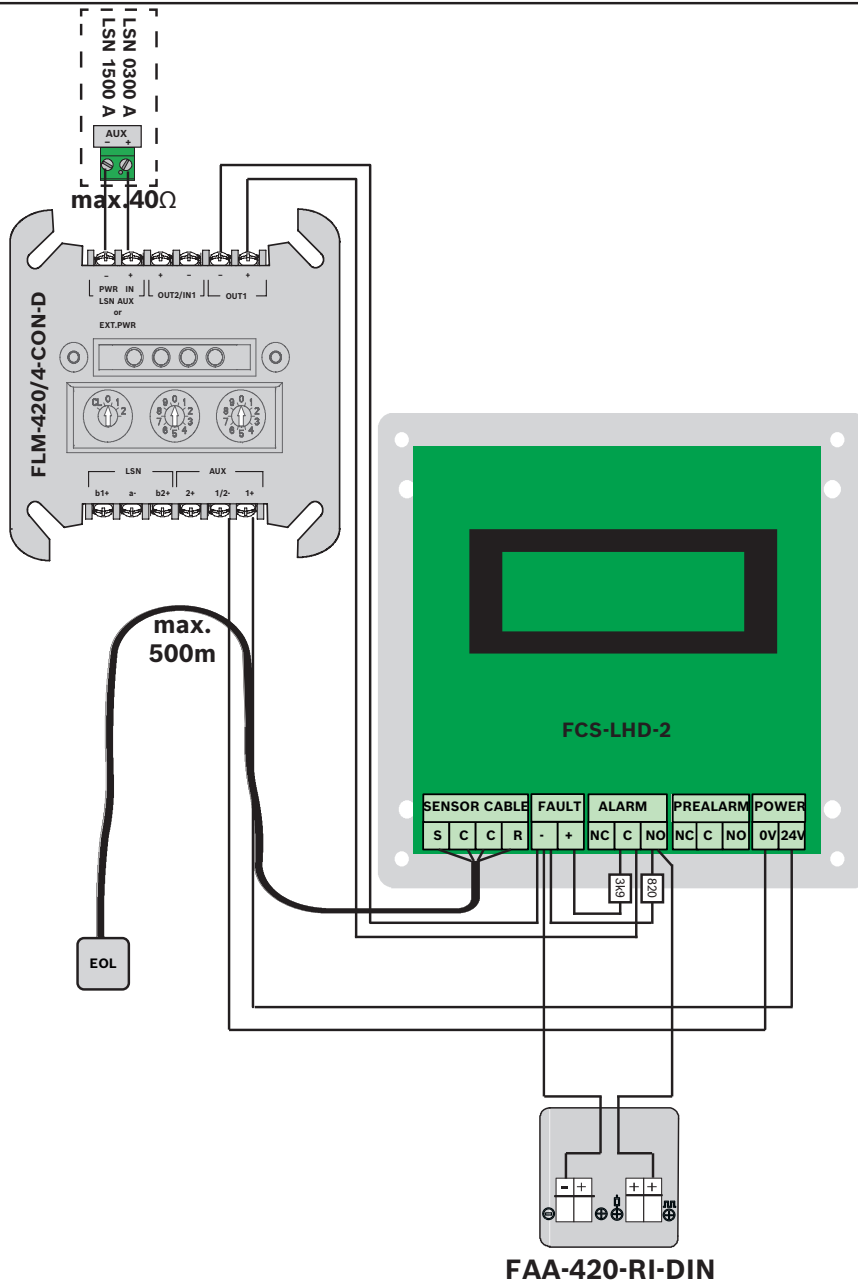
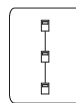
FLM-420-RLV8-S, stran 186

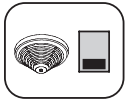
FMF-ADP-FBF/FMF-ADP-TTY, stran 187

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

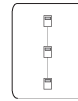


ALARMLINE II



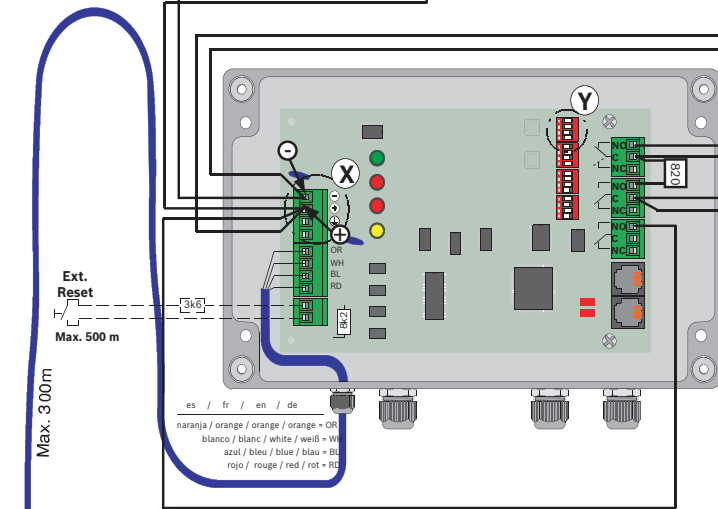
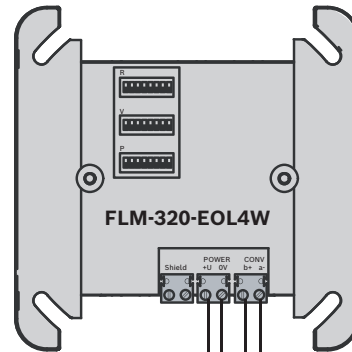
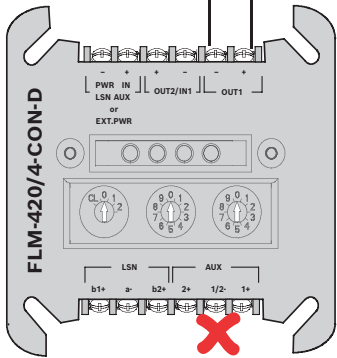


FCS-LWM-1



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

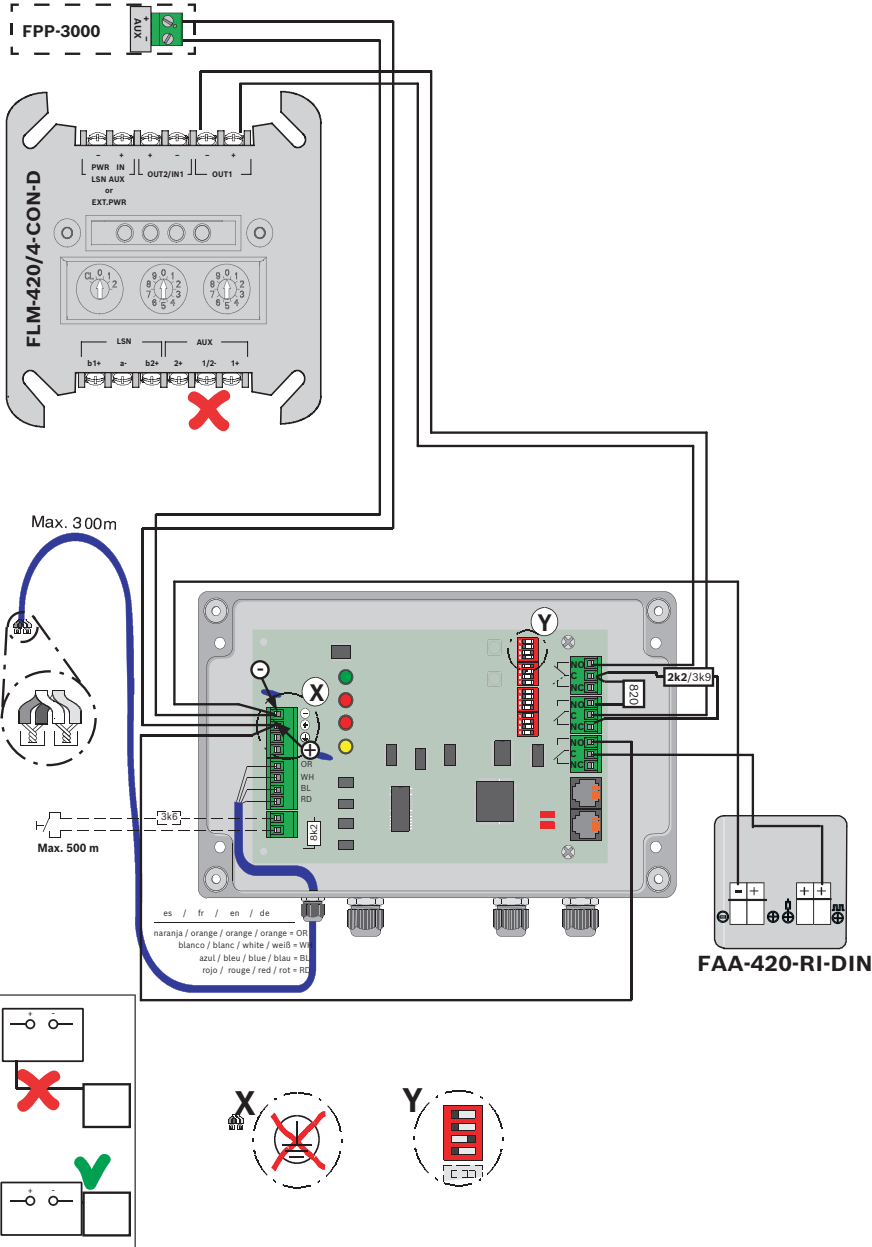


es / fr / en / de
naranja / orange / orange / orange = OR
blanco / blanc / white / weiß = WH
azul / bleu / blue / blau = BL
rojo / rouge / red / rot = RE



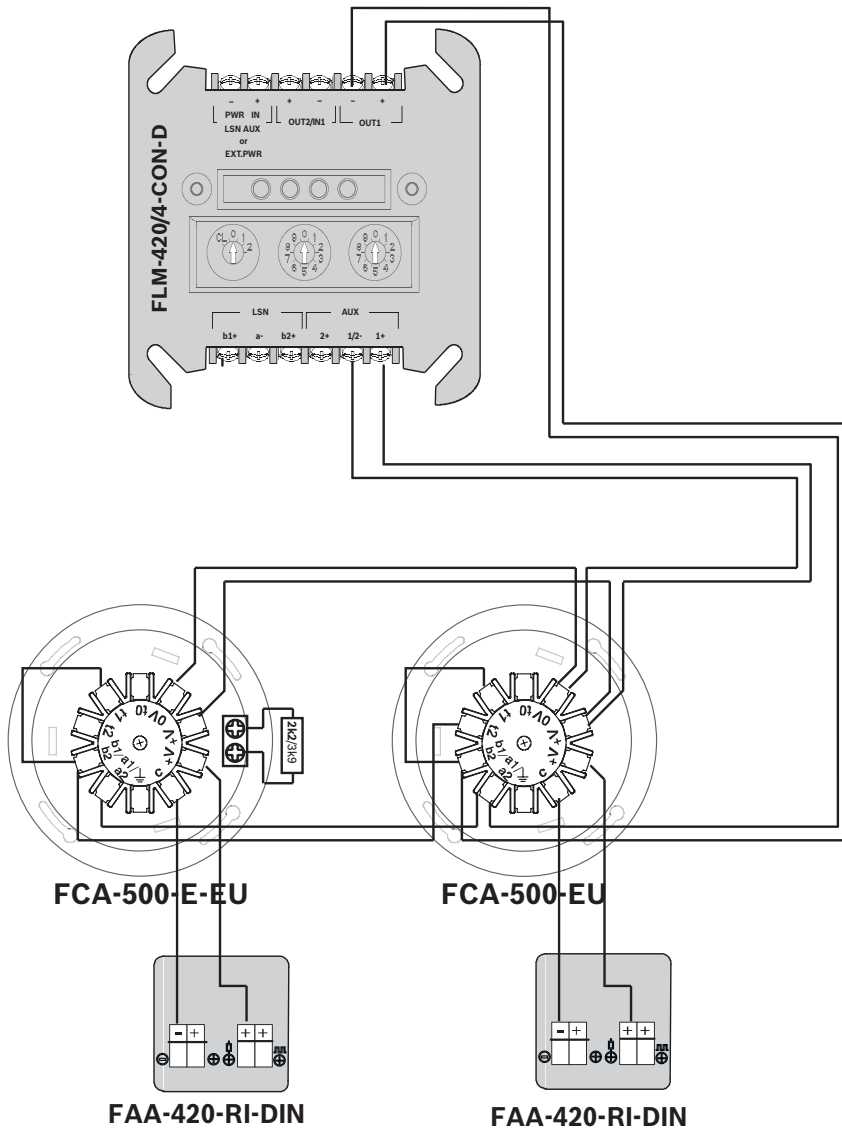


FCS-LWM-1



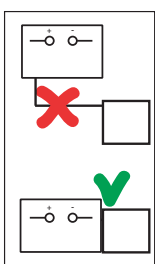
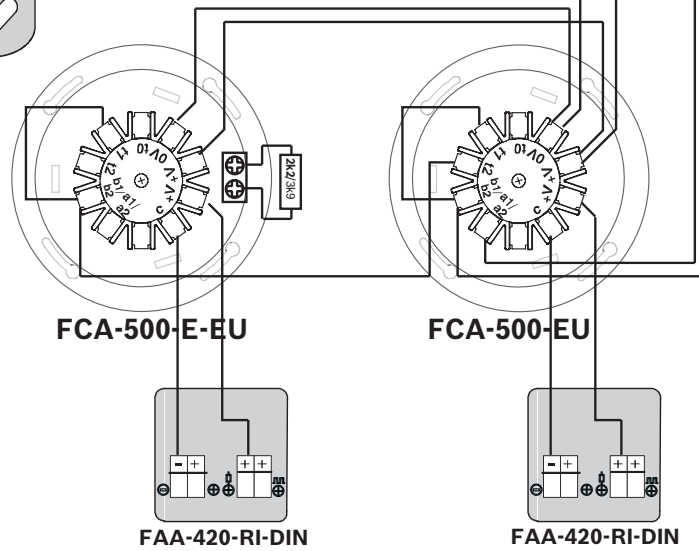
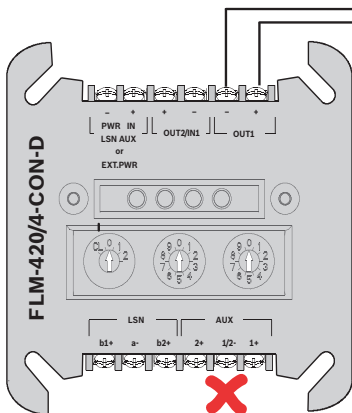


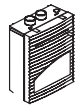
FCP-500





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

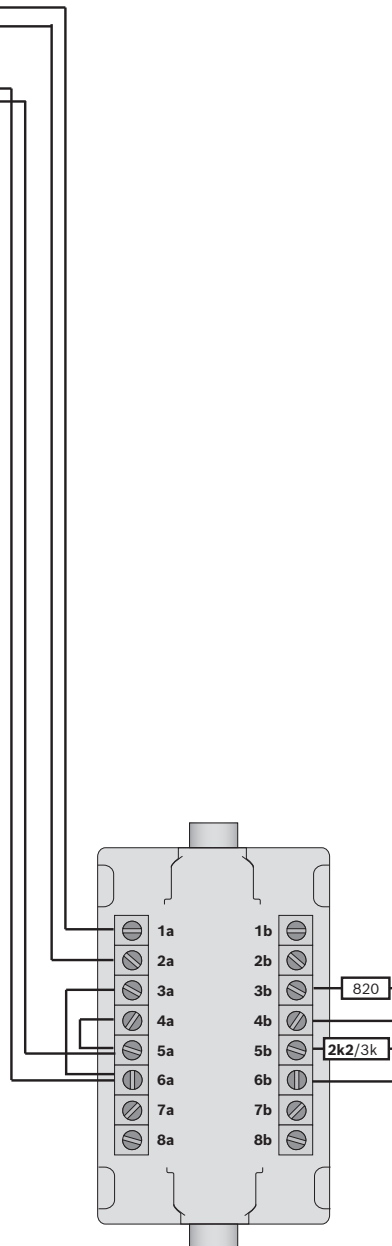
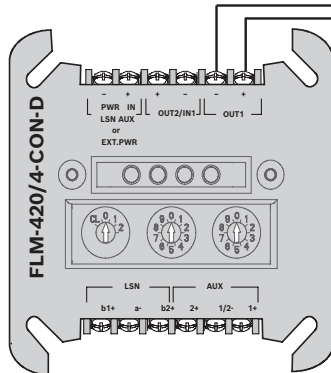


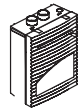


FCS-320-TM Series

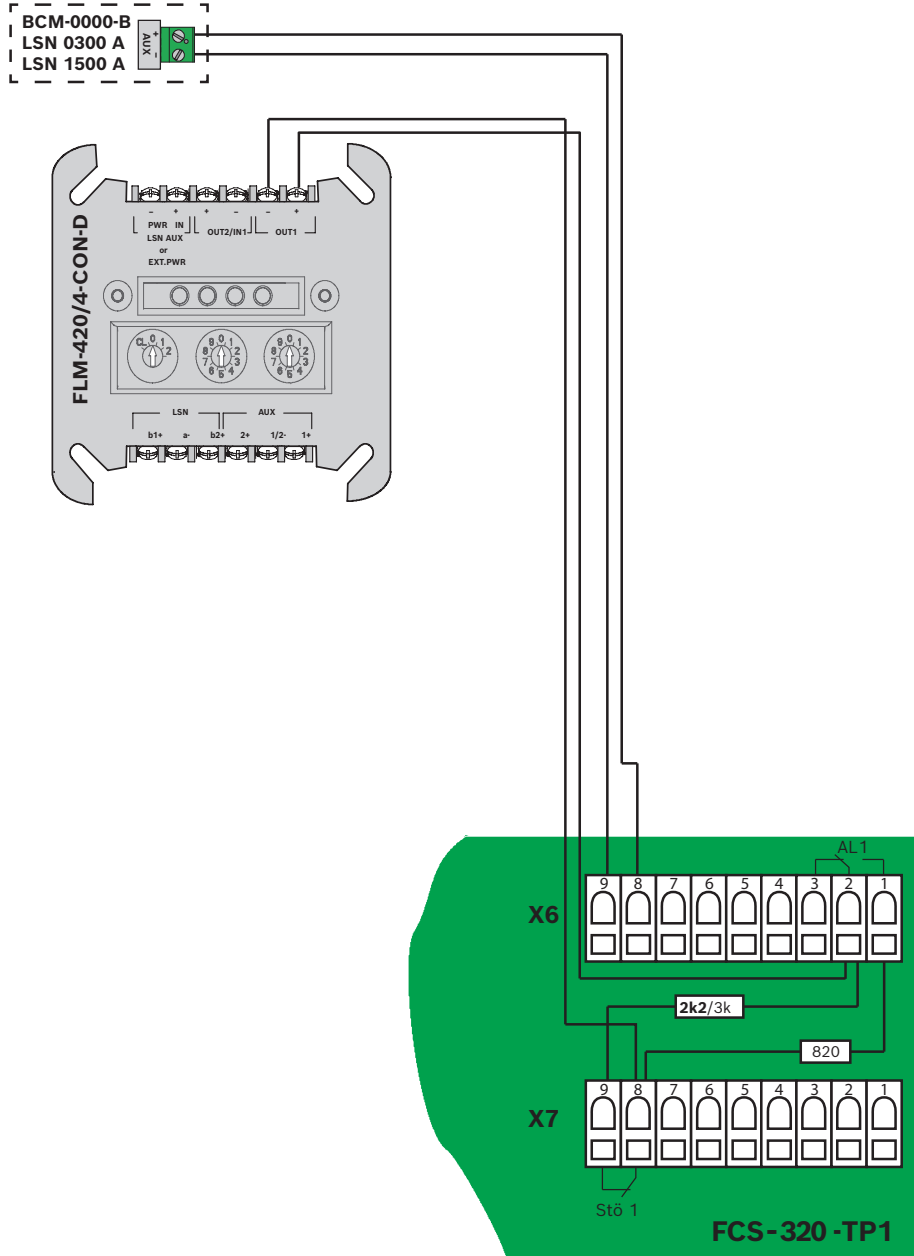
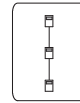


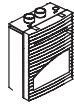
BCM-0000-B
LSN 0300 A
LSN 1500 A



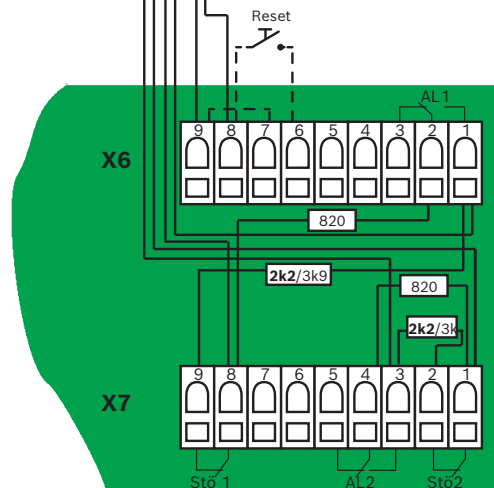
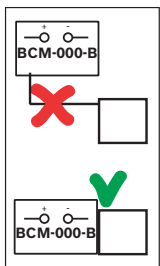
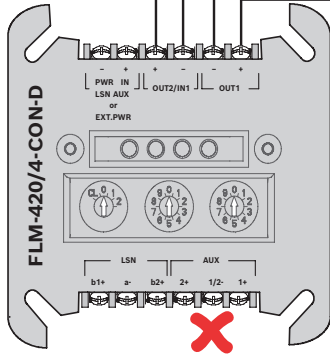
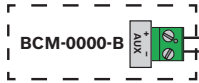


FCS-320-TP Series

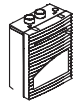




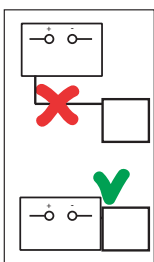
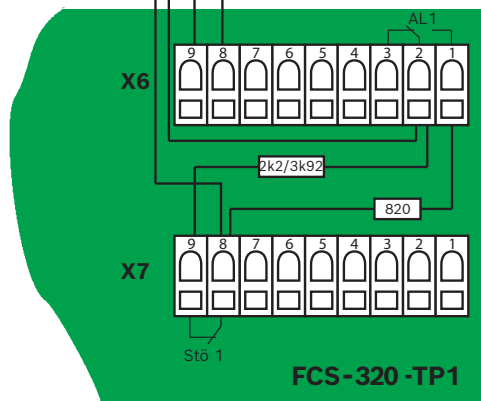
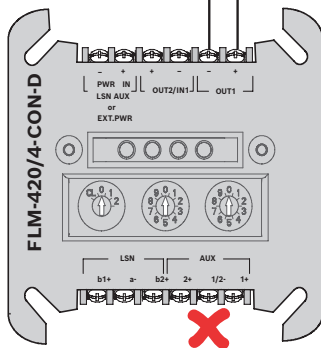
FCS-320-TP Series

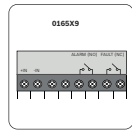


FCS-320-TP2

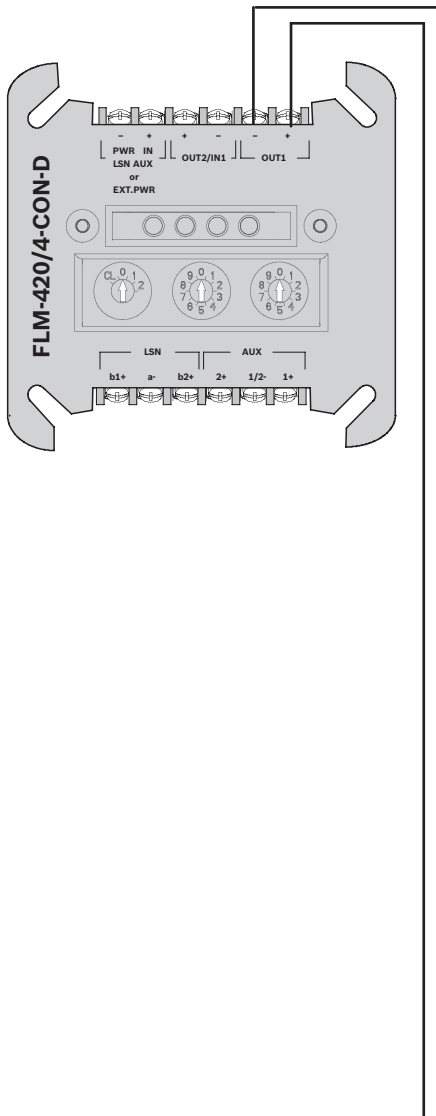
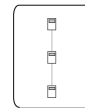


FCS-320-TP1

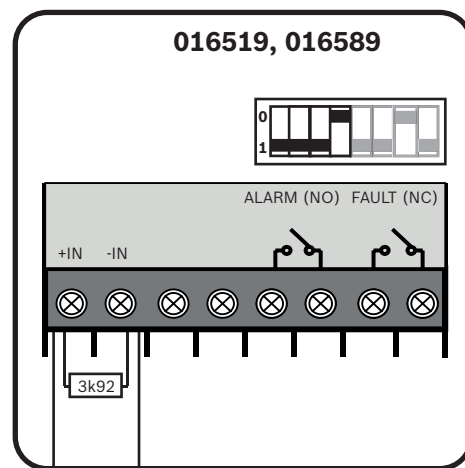


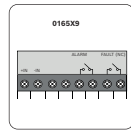


**016519, 016589
IR3 Flame Detector**

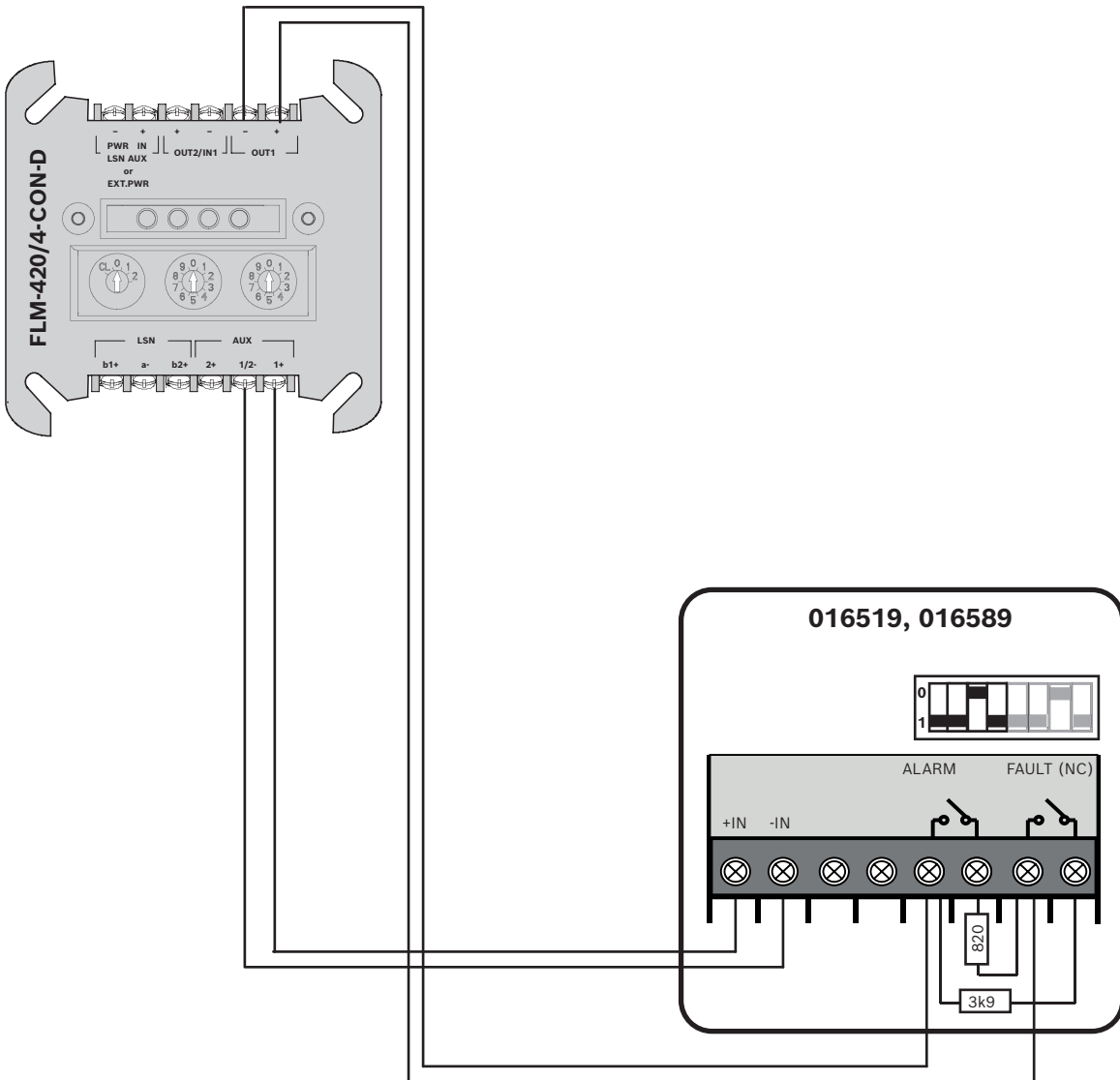
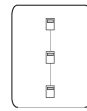


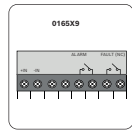
max. 1 x 0165X9



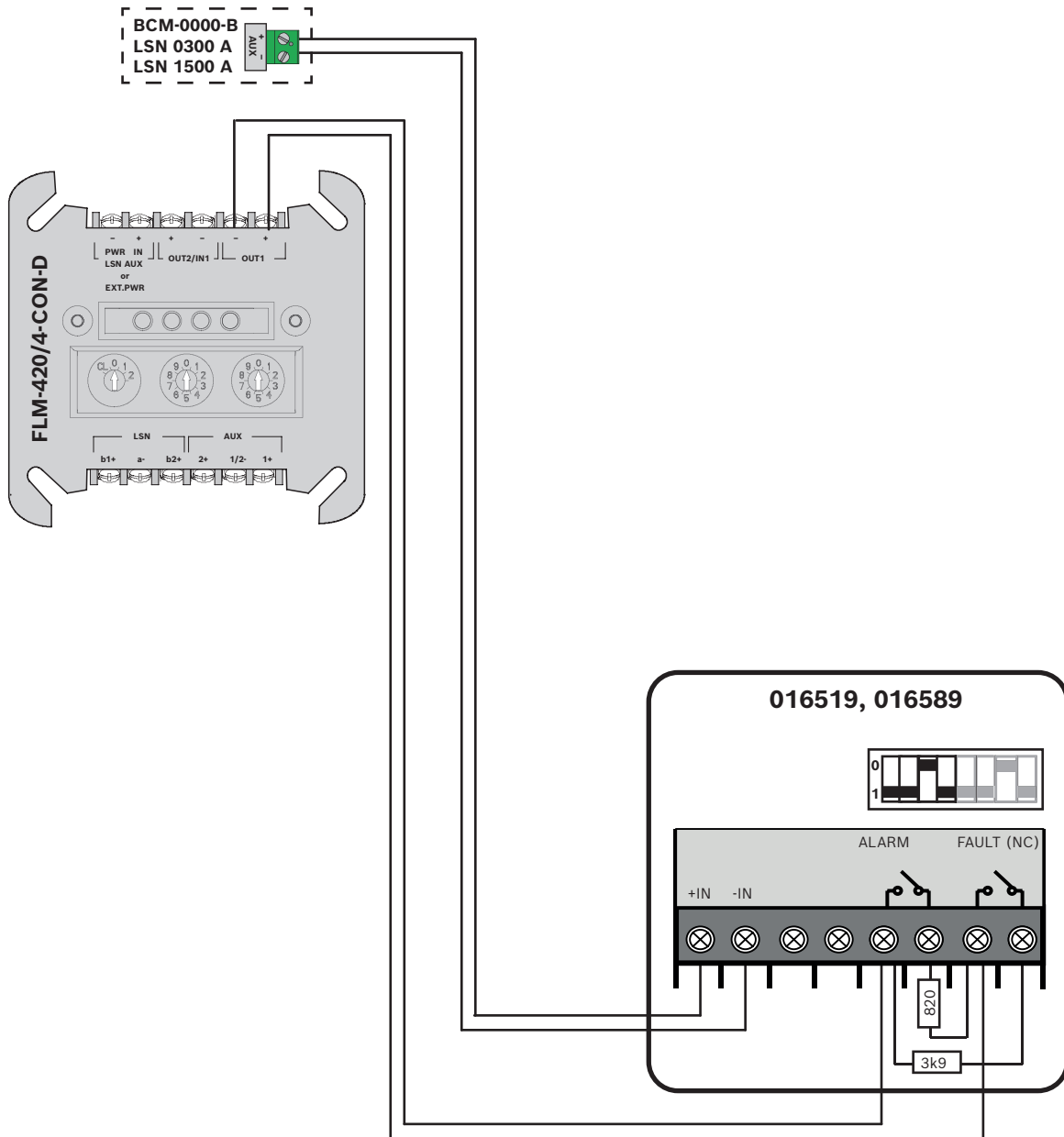
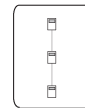


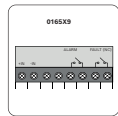
**016519, 016589
IR3 Flame Detector**



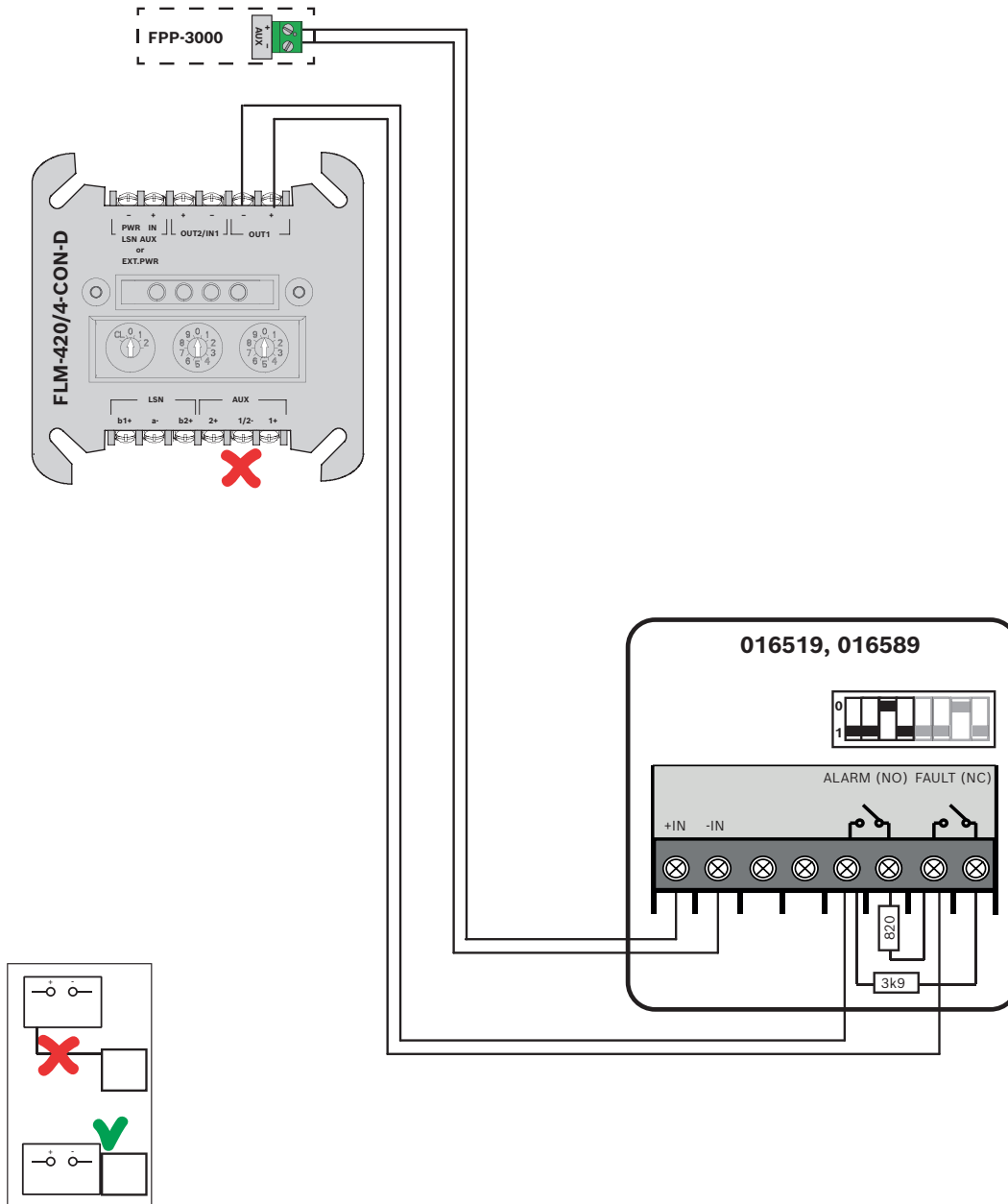


**016519, 016589
IR3 Flame Detector**



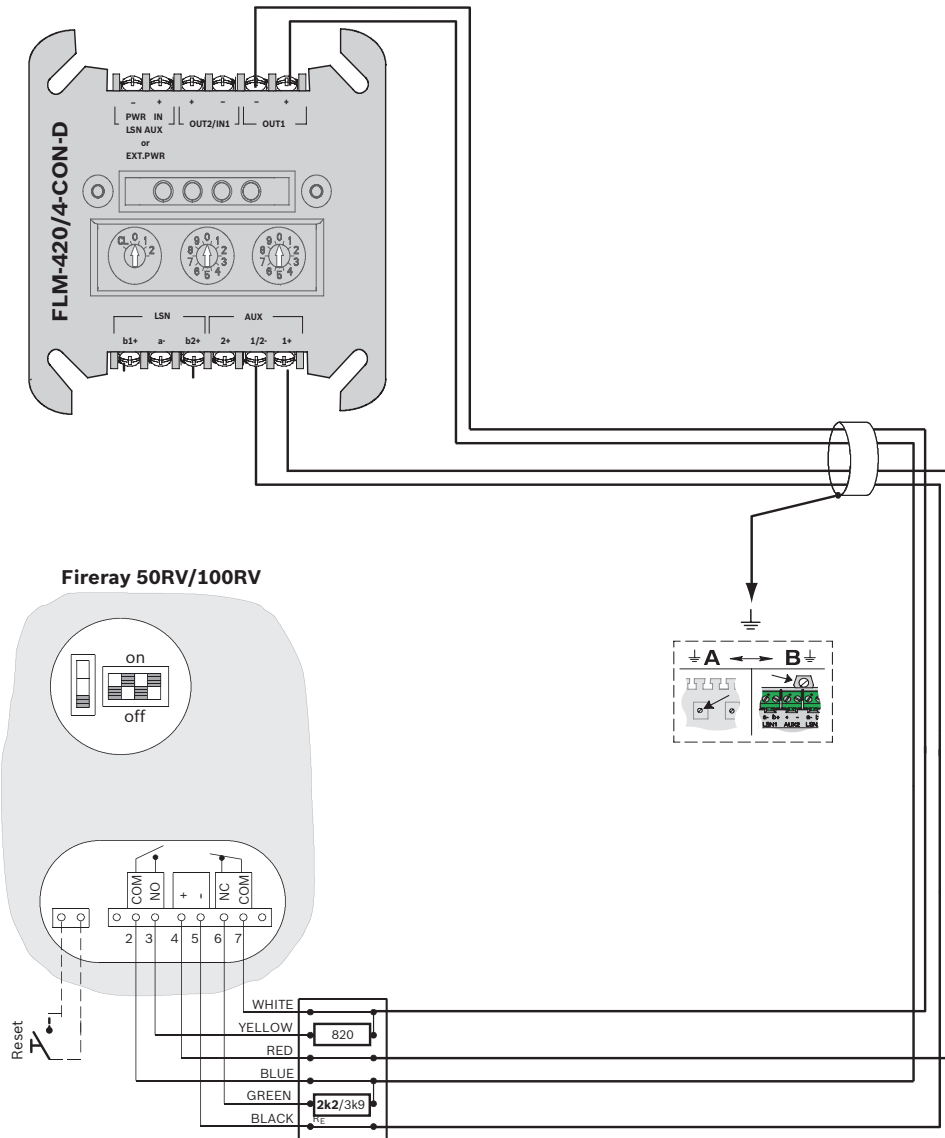


**016519, 016589
IR3 Flame Detector**





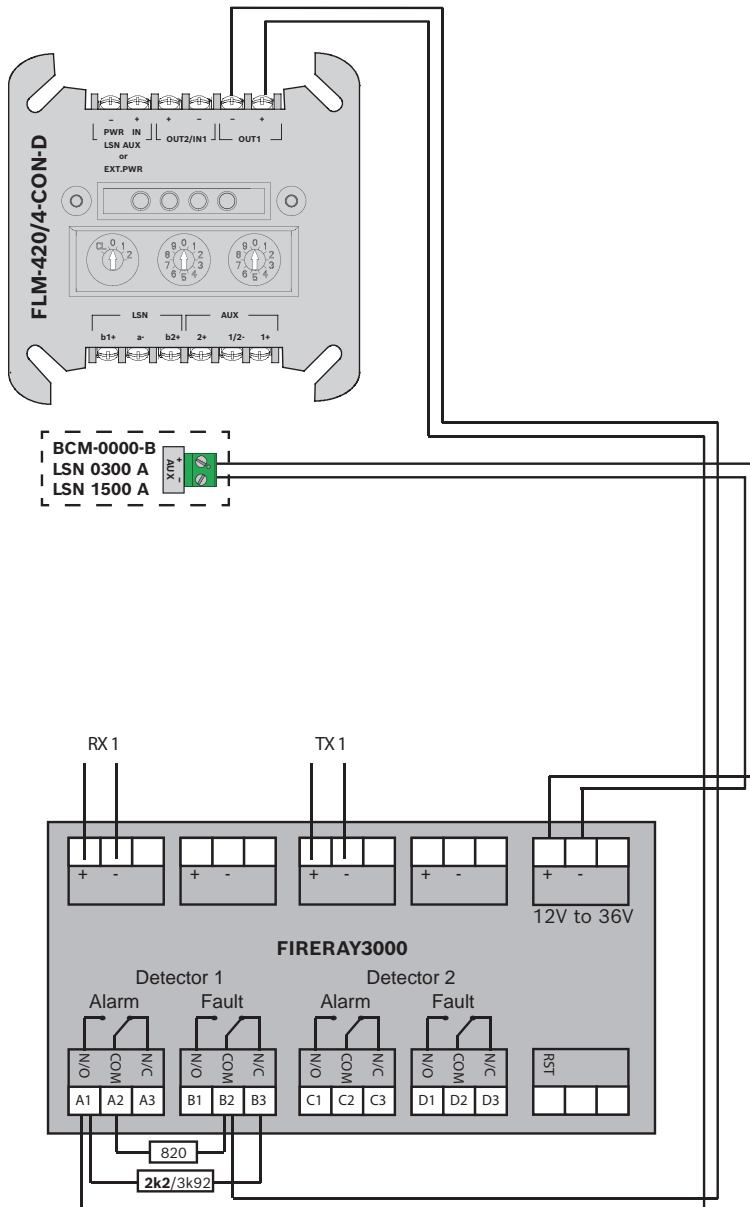
**Fireray 50RV
Fireray 100RV**





FIRERAY3000

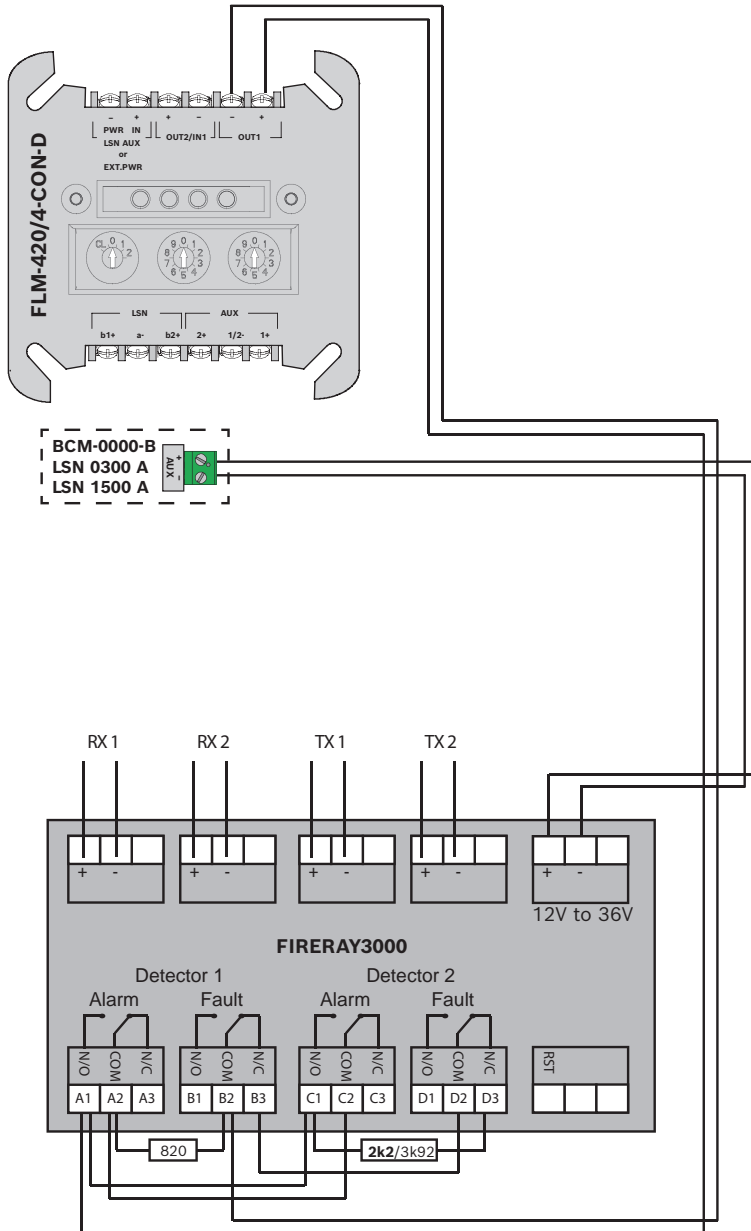
1 x





FIRERAY3000

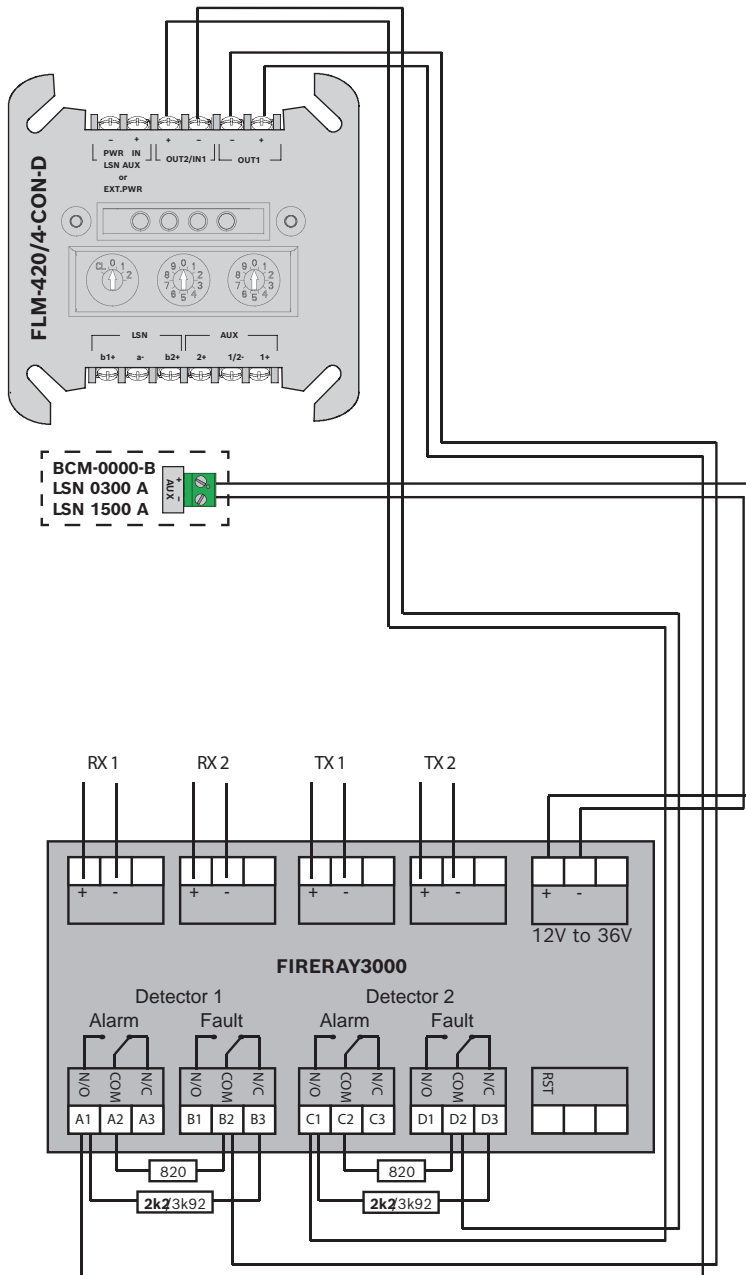
2 x **OUT1**





FIRERAY3000

2 x **OUT1+2**

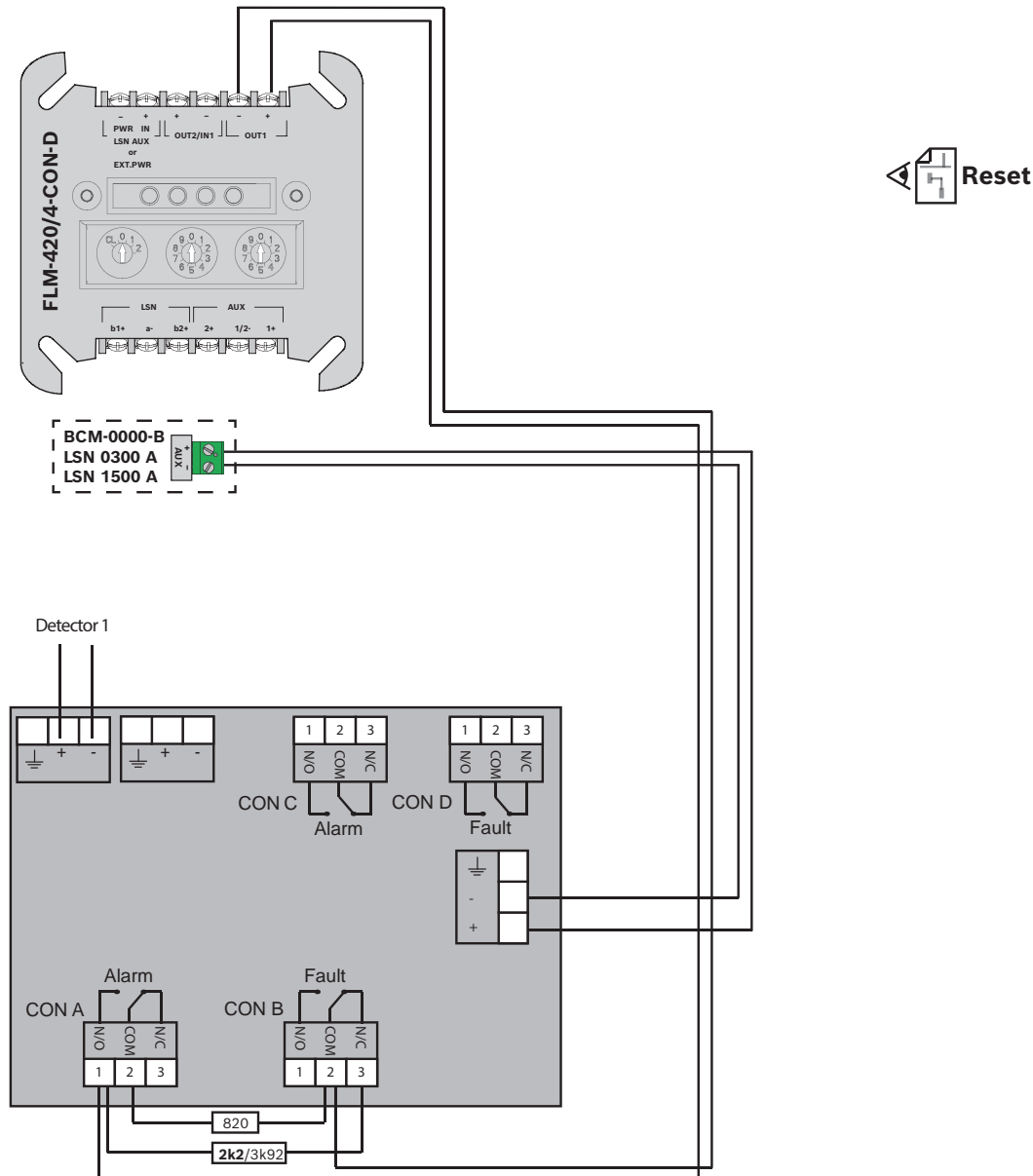


Reset action



FIRERAY5000

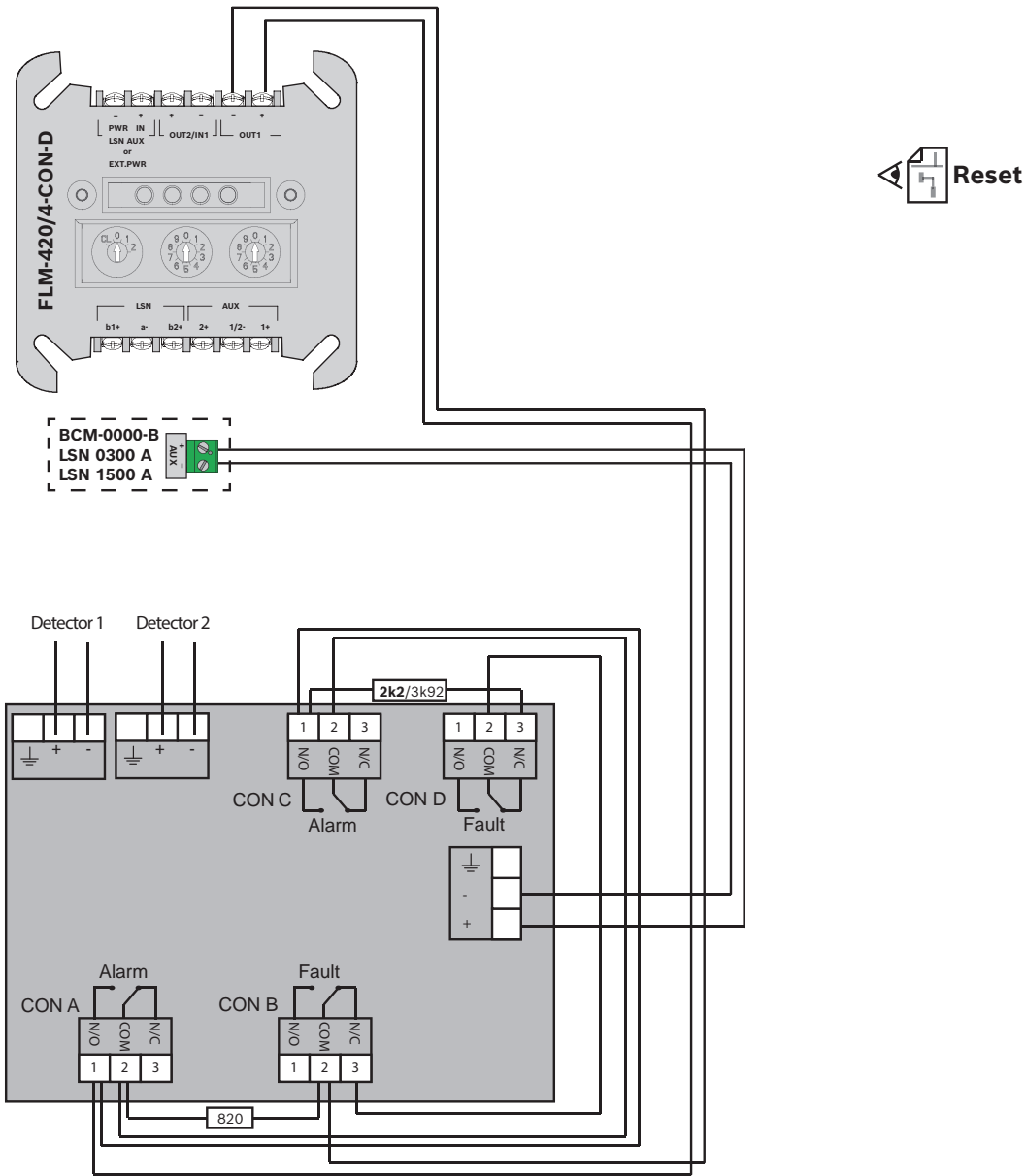
1 x





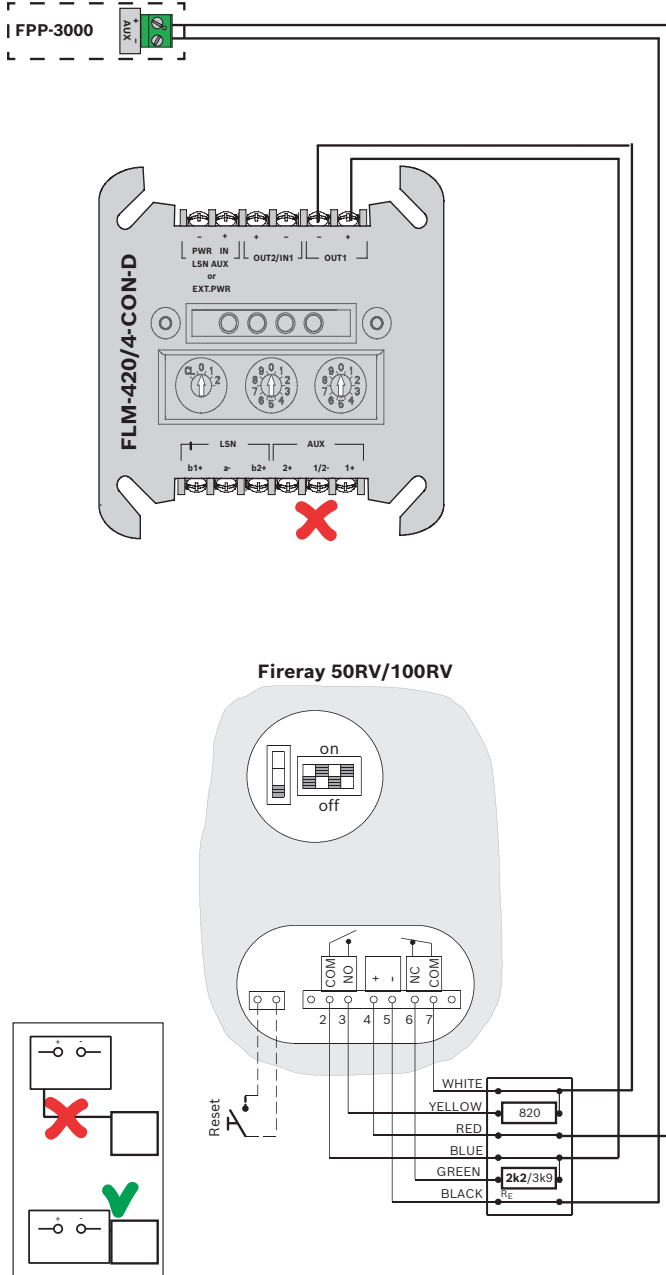
FIRERAY5000

2 x OUT1





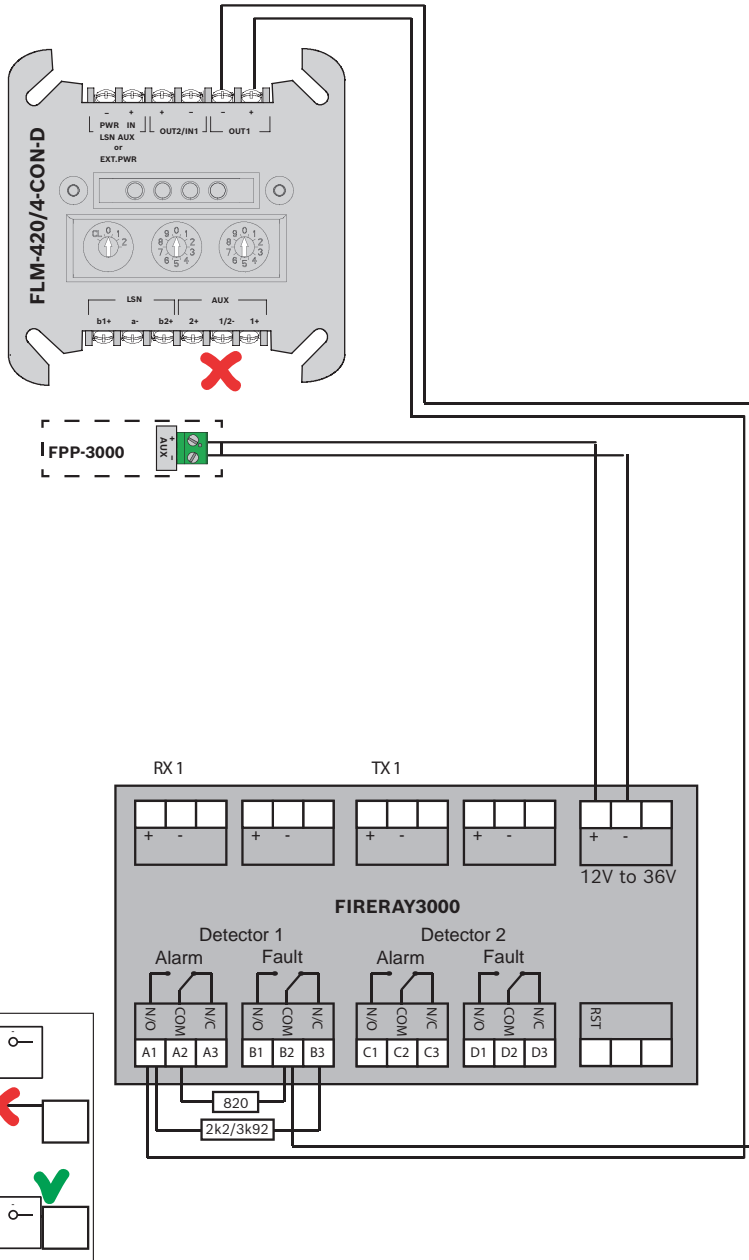
**Fireray 50RV
Fireray 100RV**



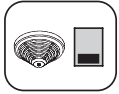


FIRERAY3000

1 x

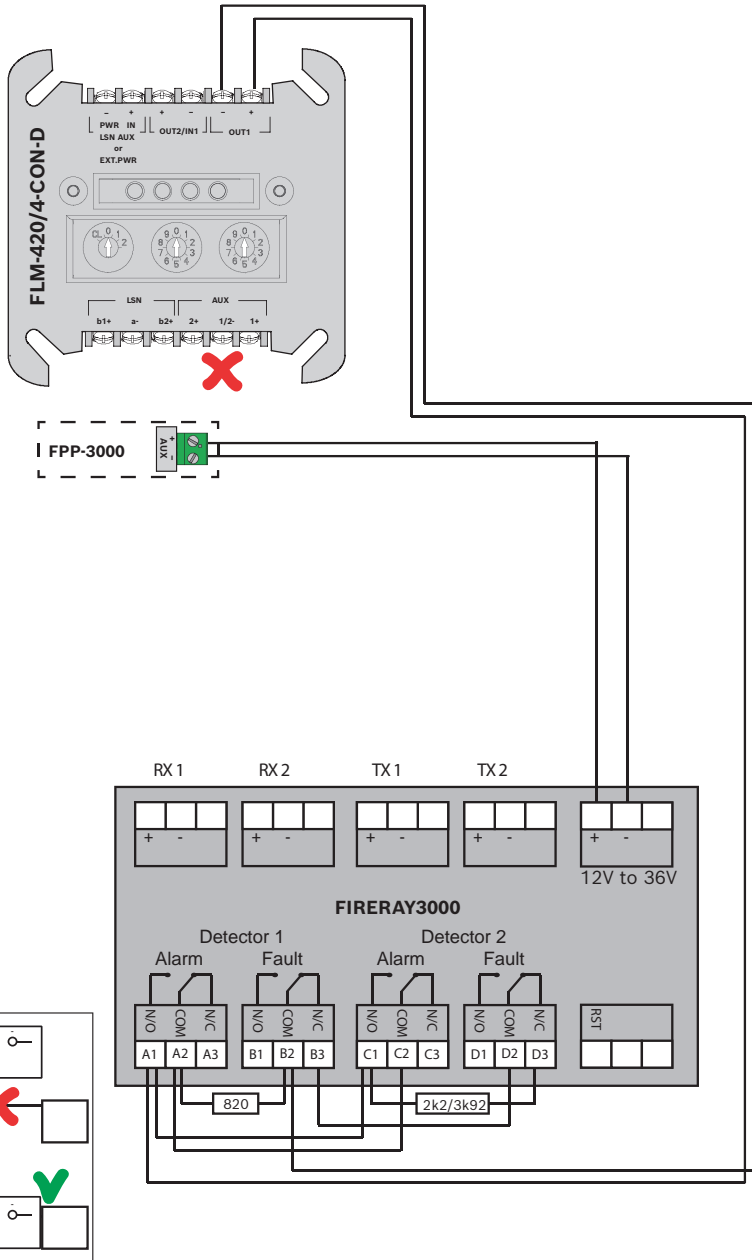


Reset action

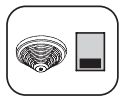


FIRERAY3000

2 x  **OUT1**

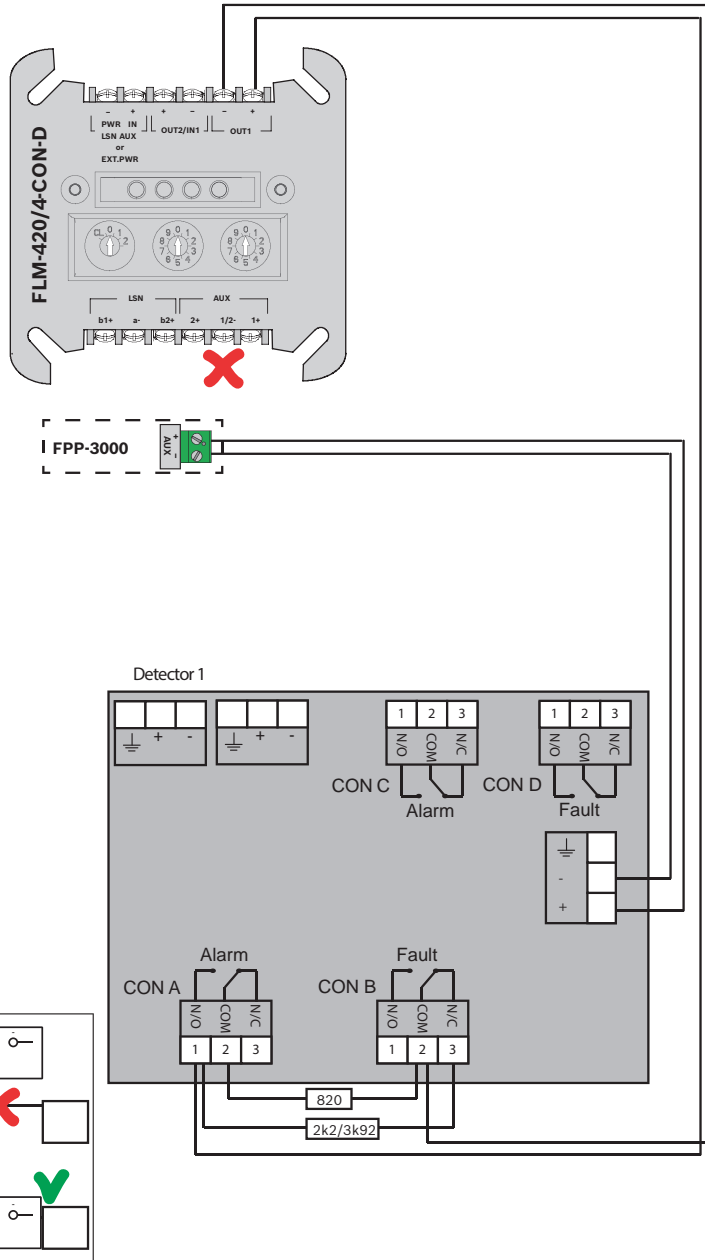


 **Reset action**



FIRERAY5000

1 x

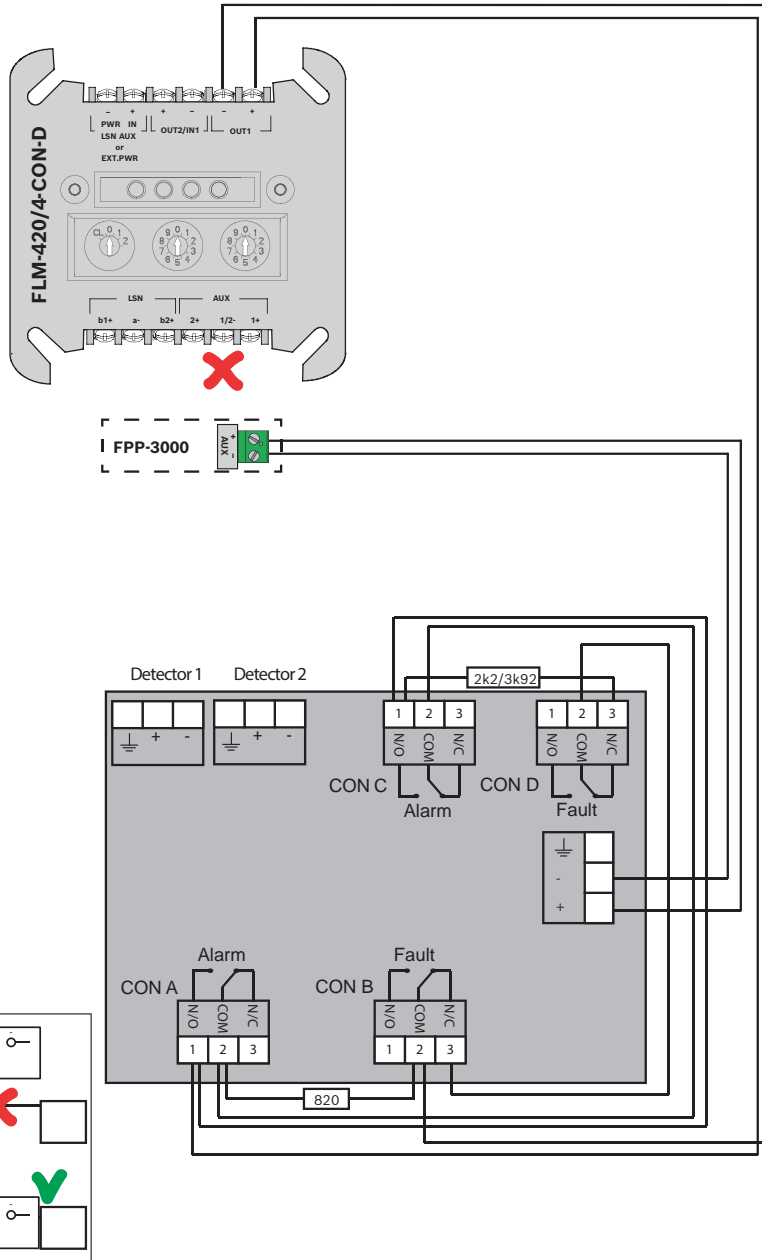


Reset action

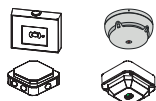


FIRERAY5000

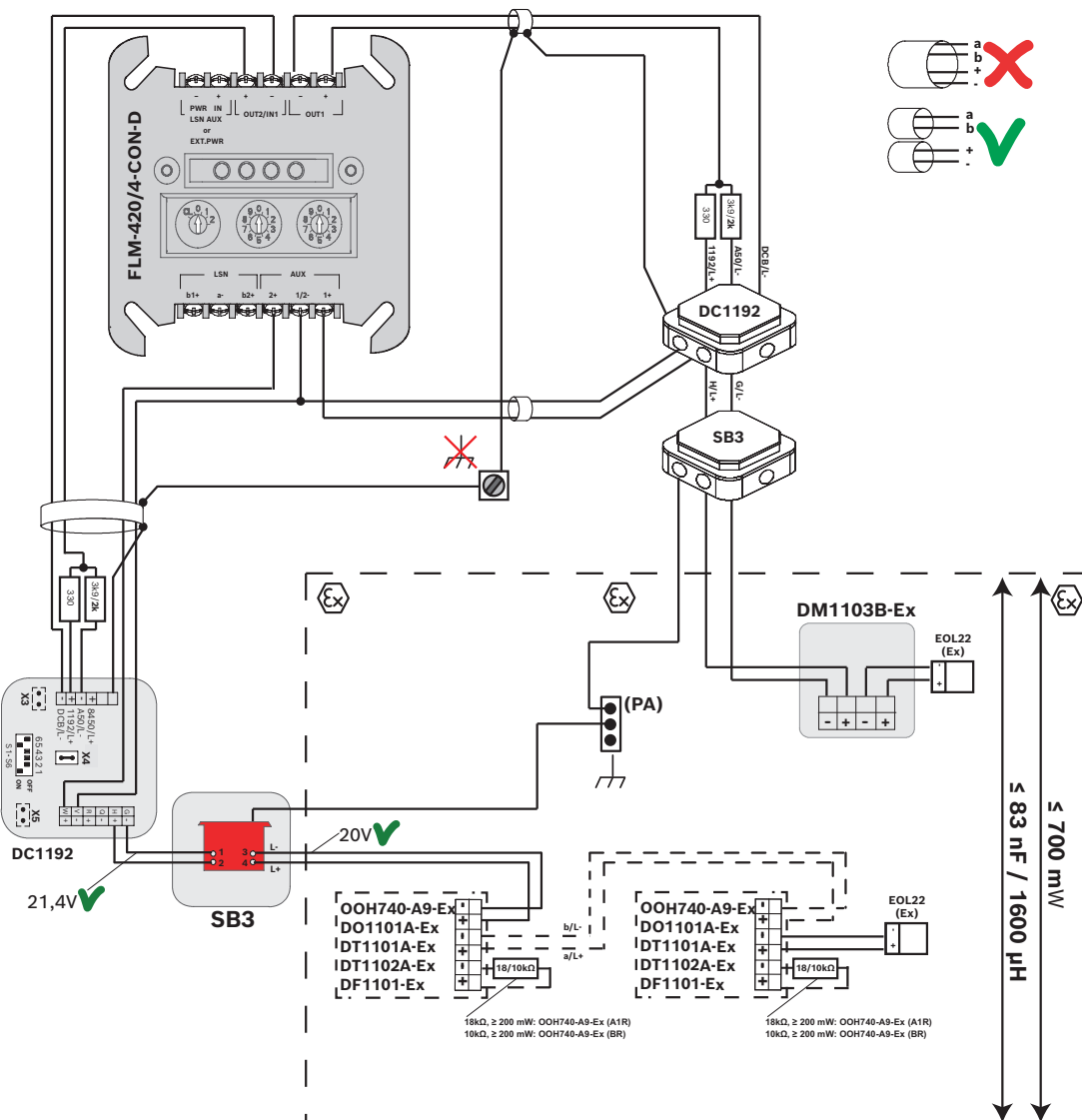
2 x OUT1



Reset action

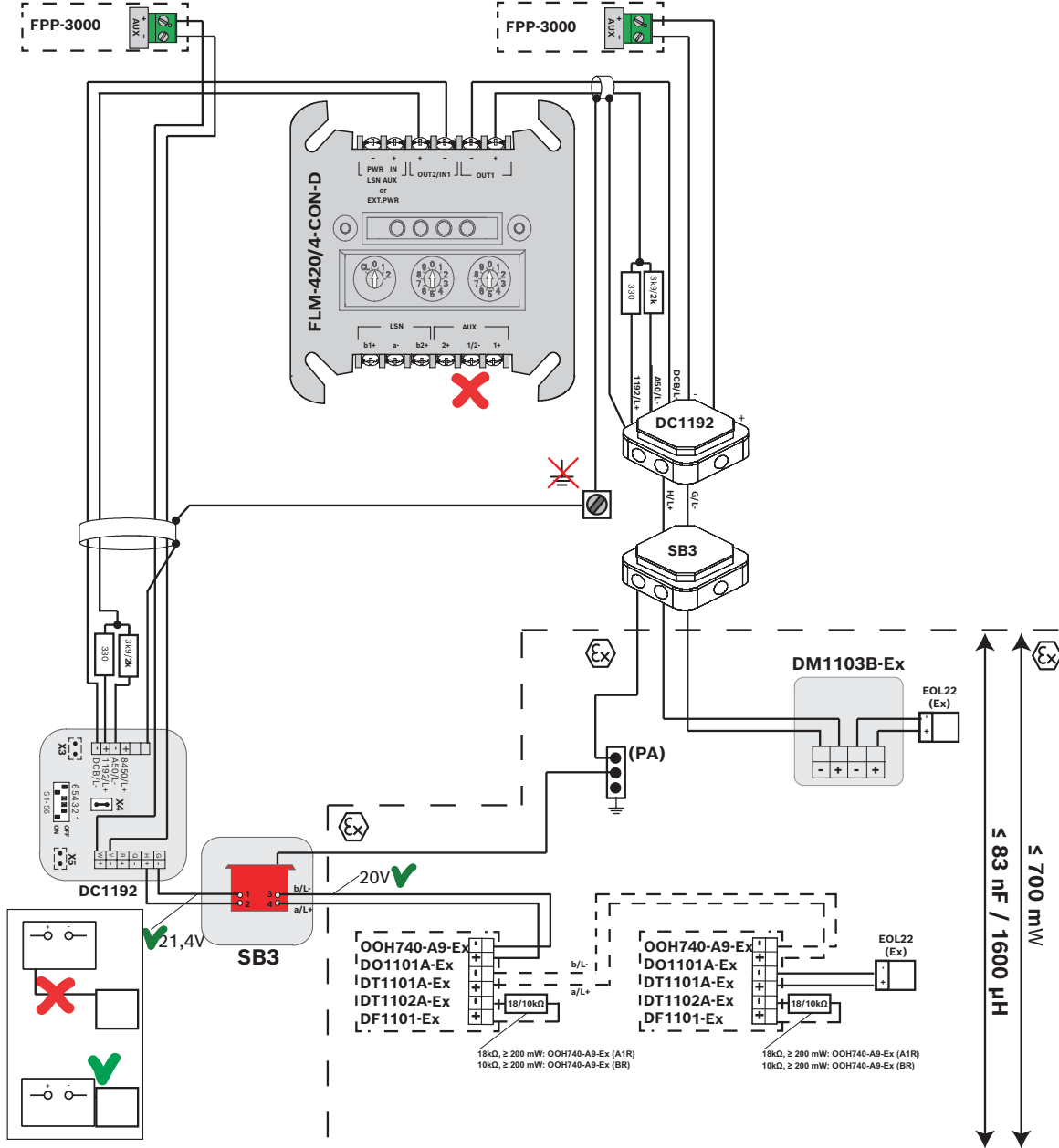


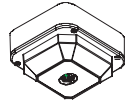
DC1192, SB3
OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex-
/DT1102A-Ex
DF1101-Ex



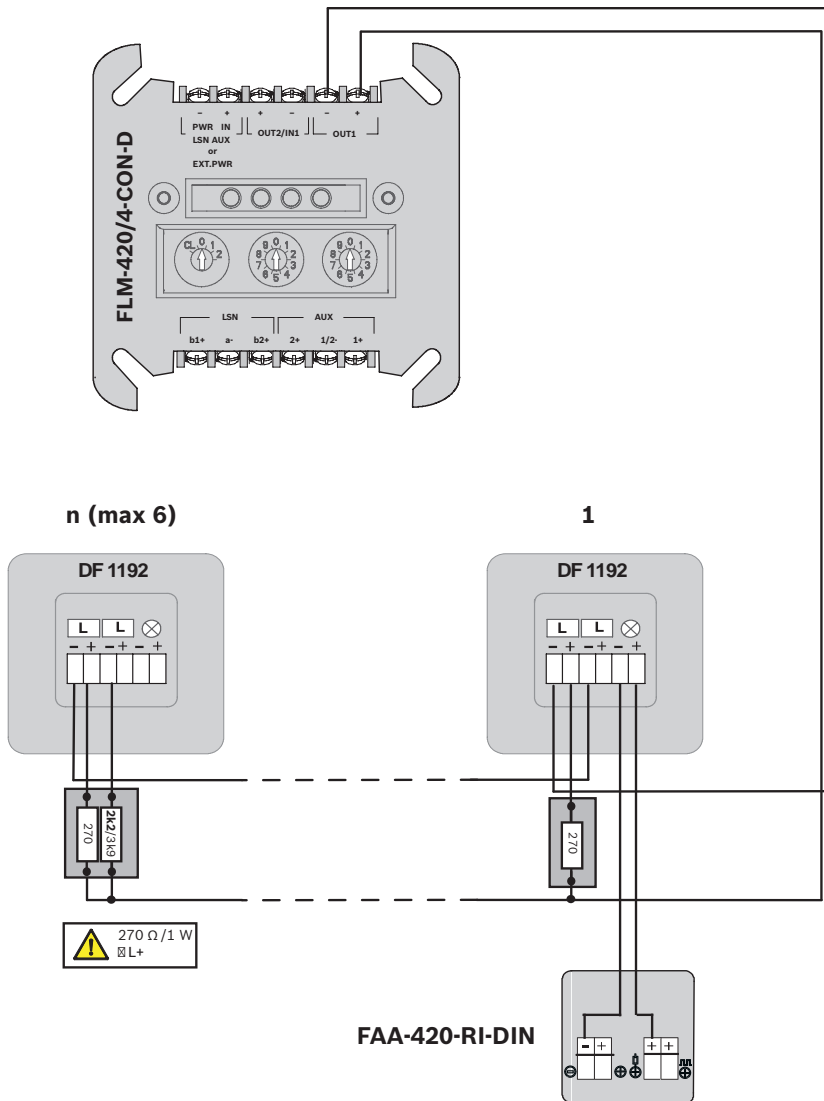


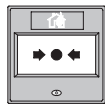
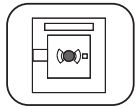
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



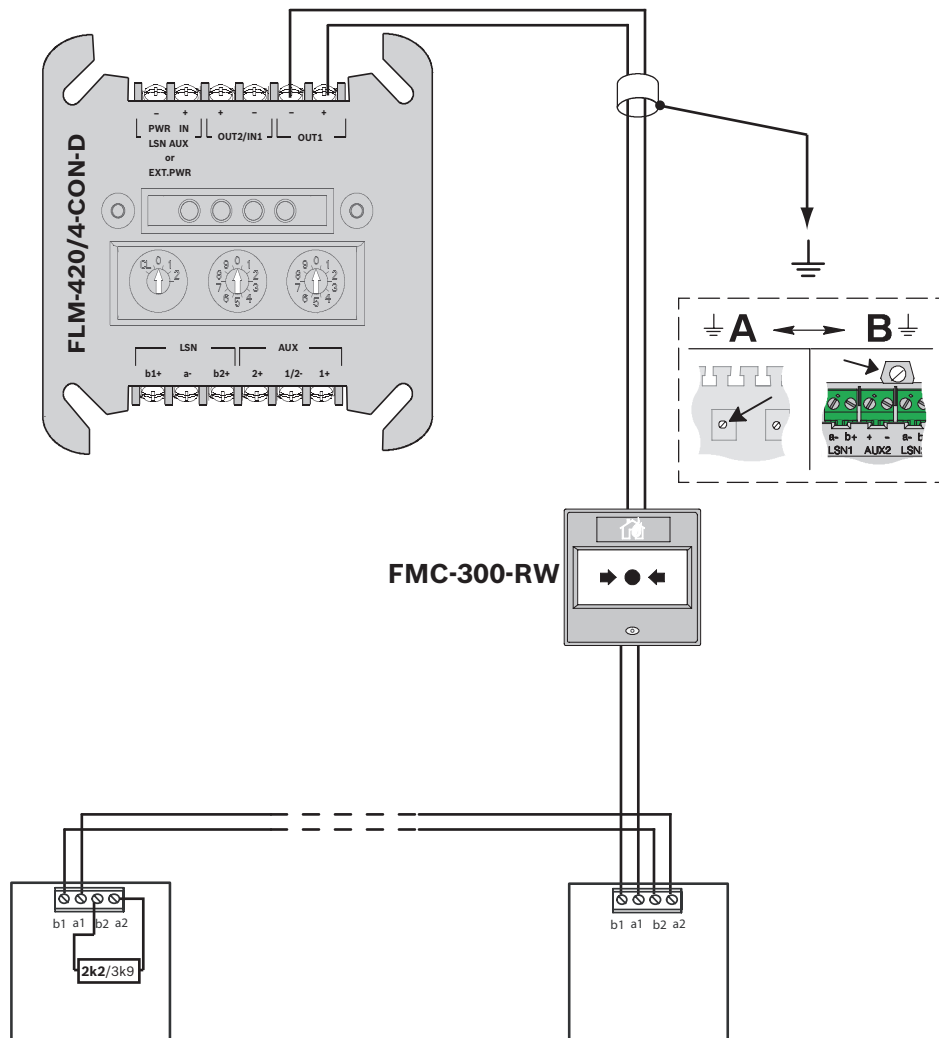
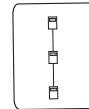


DF 1192



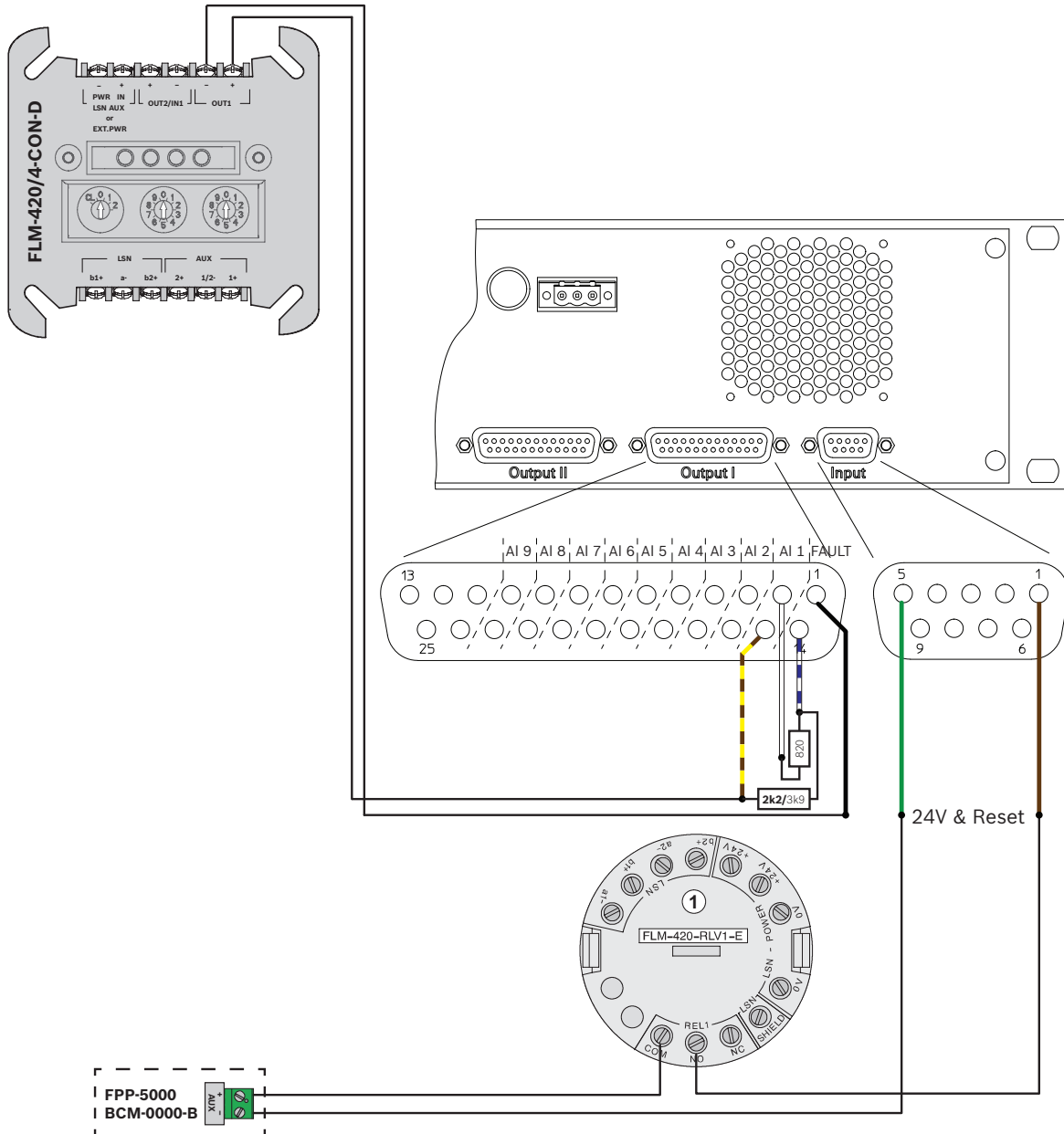


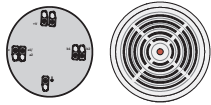
FMC-300-RW



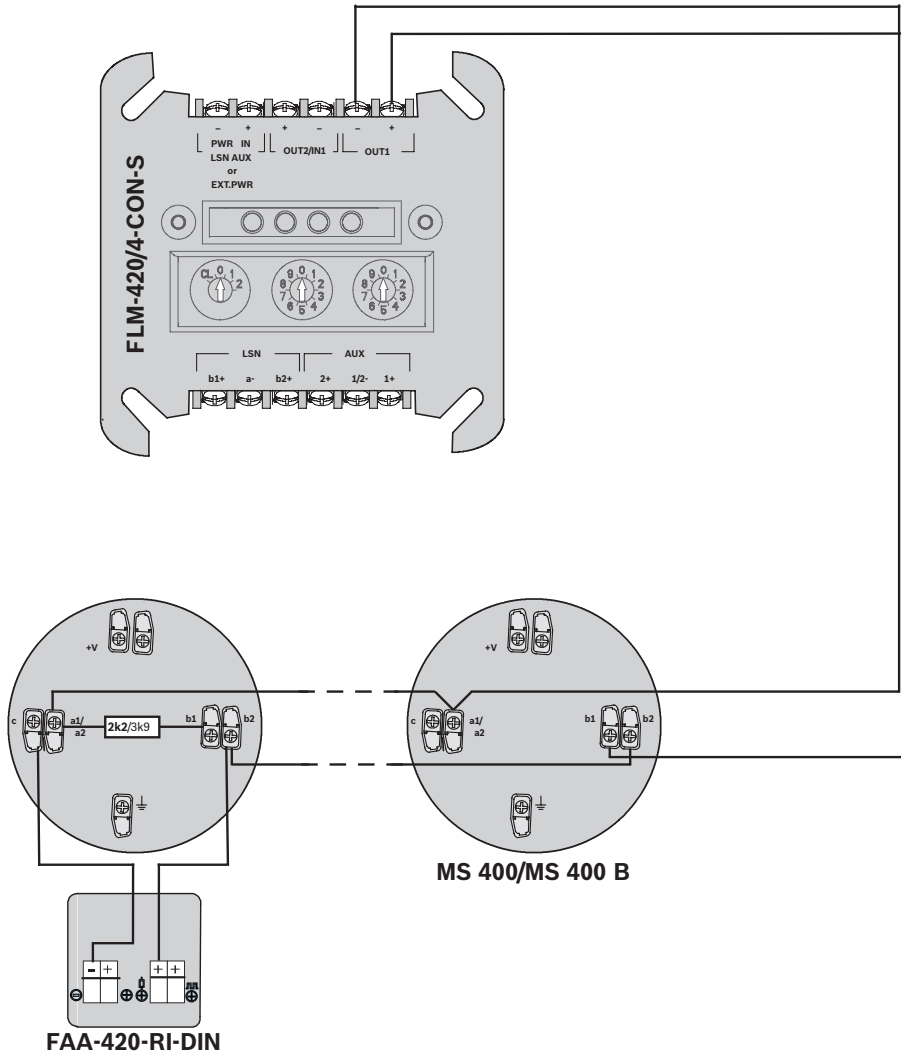


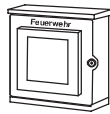
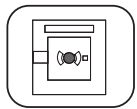
N4387A



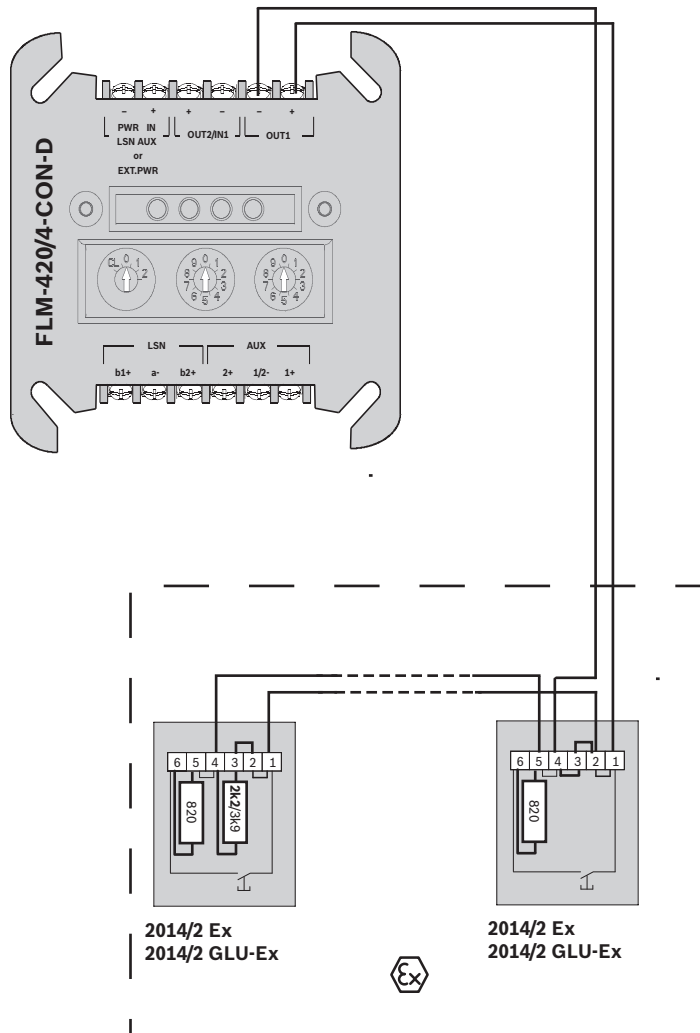
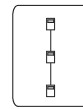


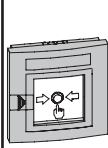
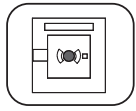
MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



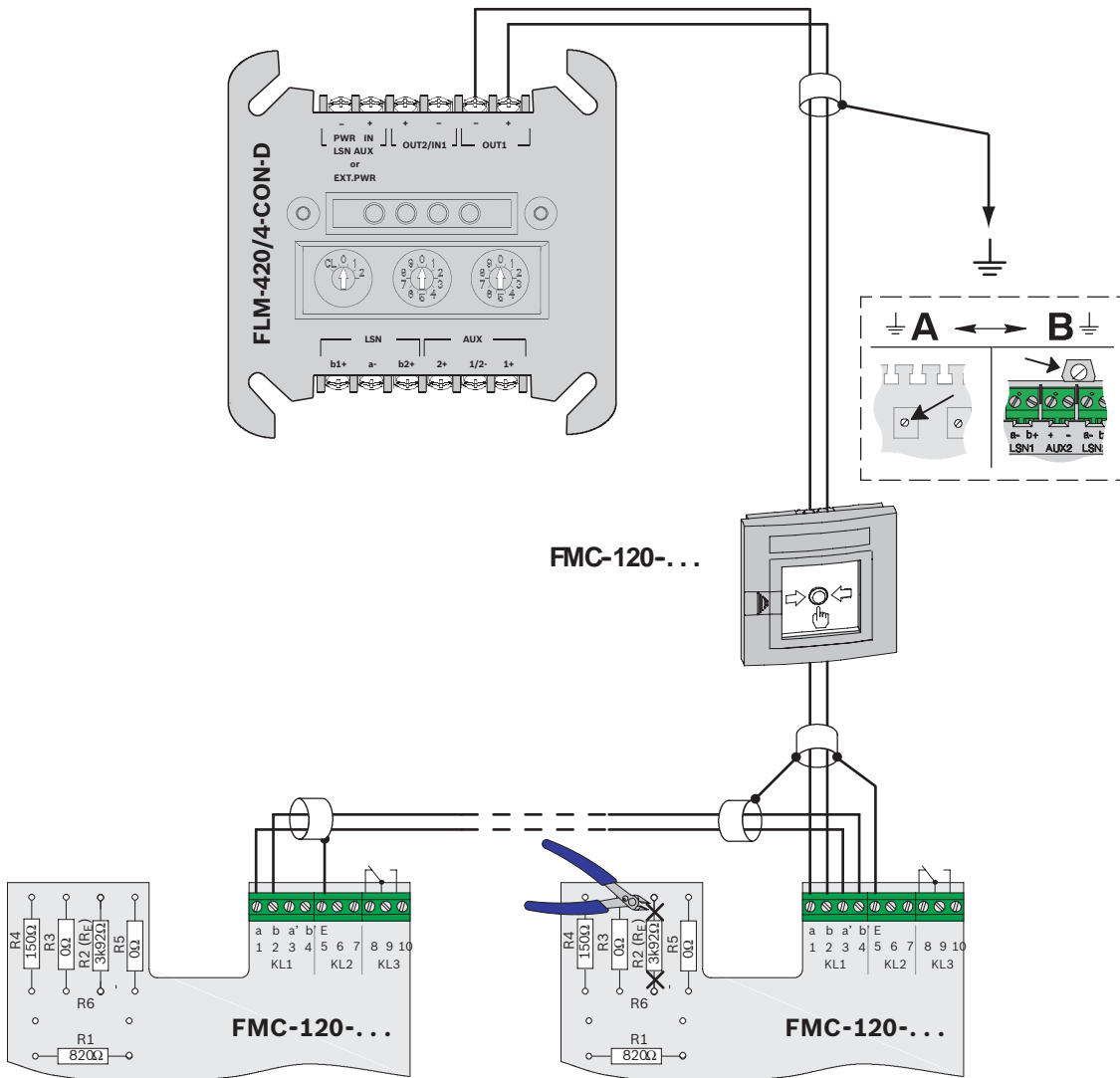
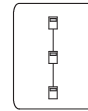


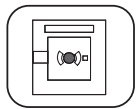
2014/2 Ex
2014/2 GLU-Ex



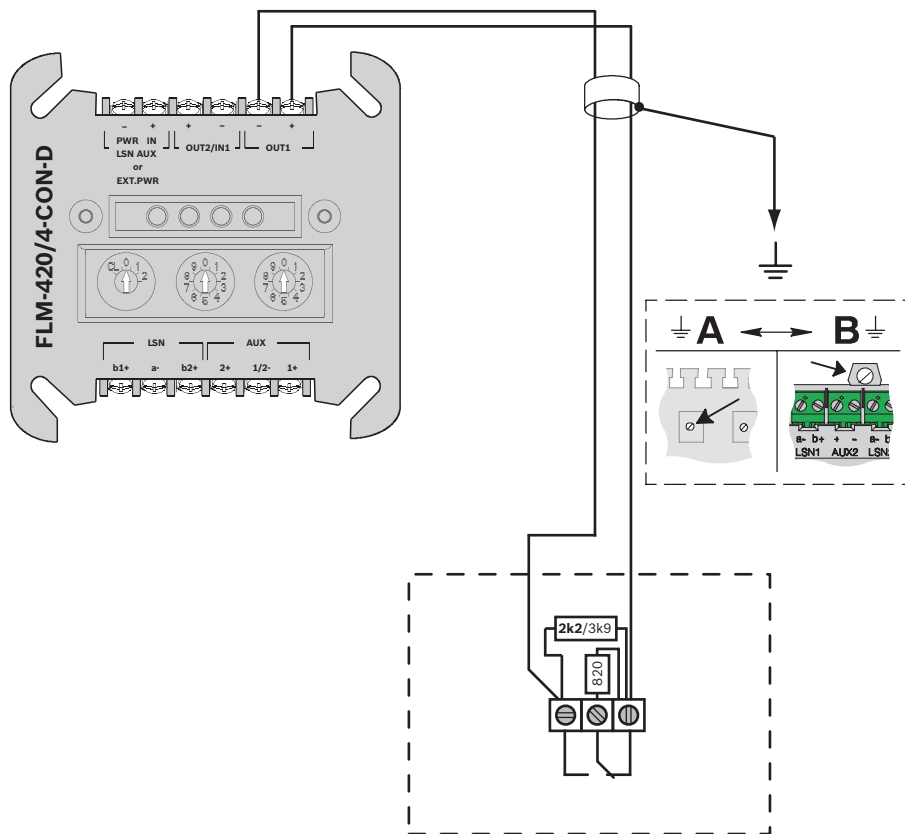
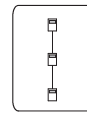


FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



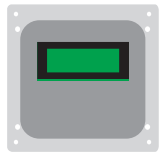


NO



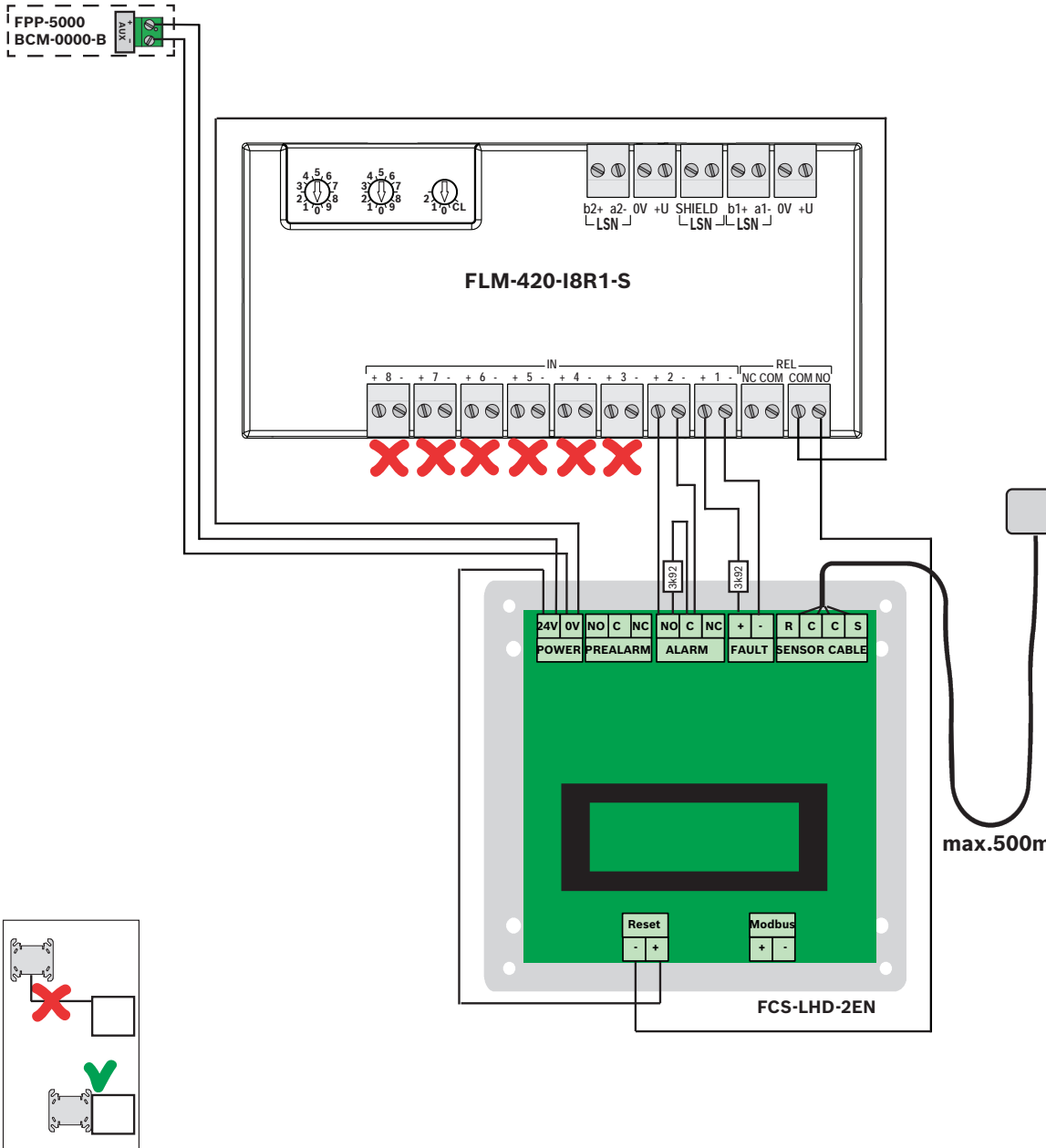
2.5.2

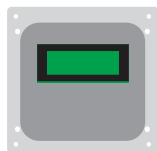
FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





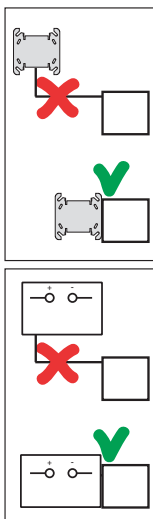
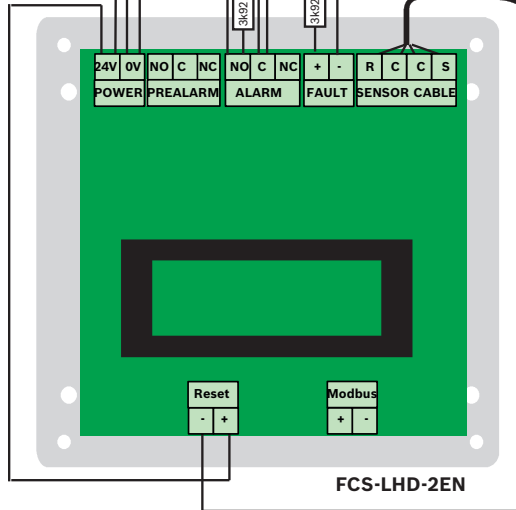
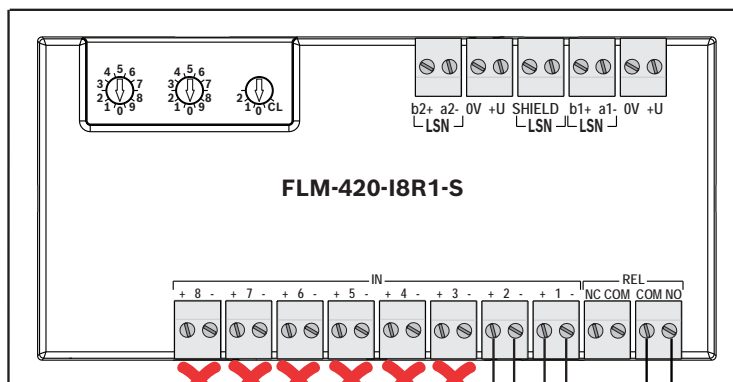
ProReact EN Analogue

FCS-LHD-2EN

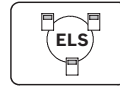


ELS

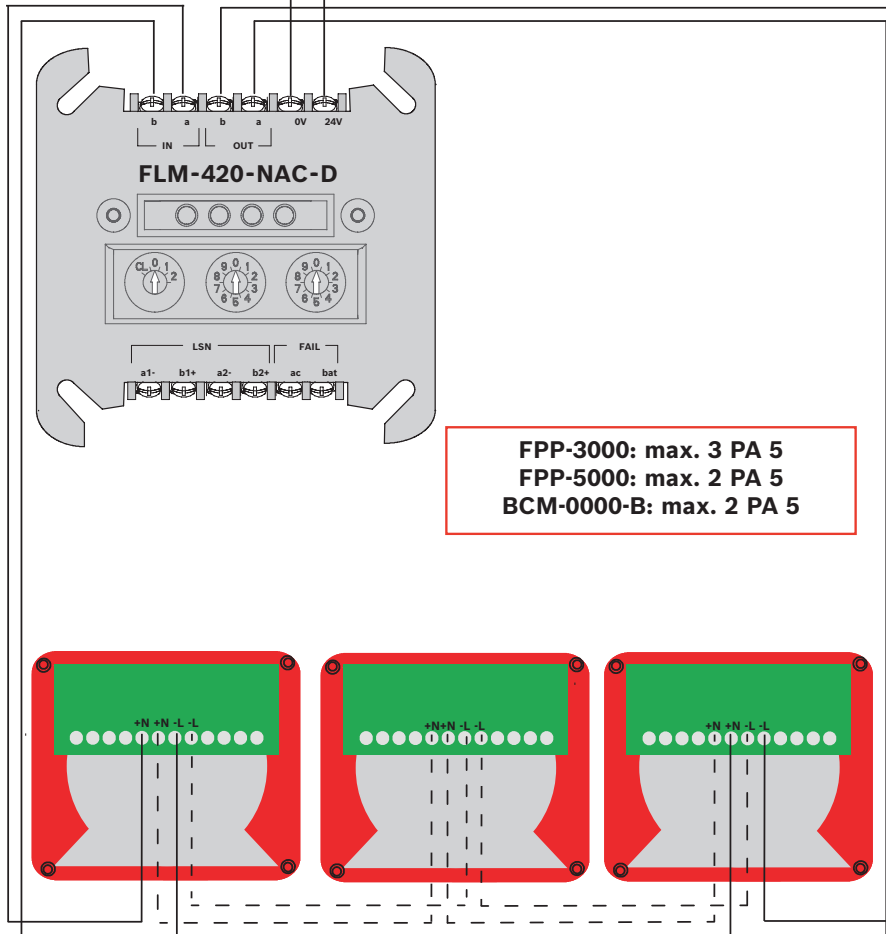
FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B



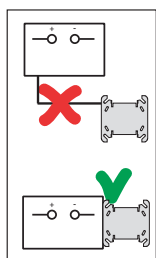
2.5.3 FLM-420-NAC-D/S



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

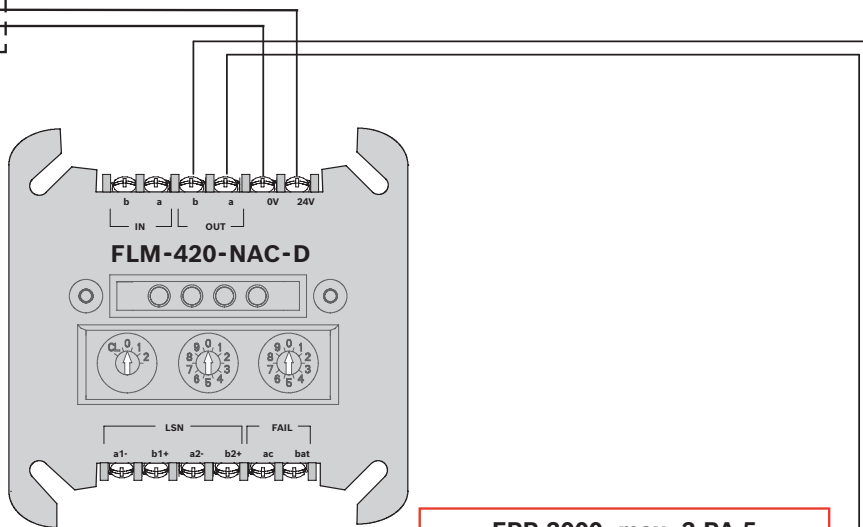


FPP-3000: max. 3 PA 5
FPP-5000: max. 2 PA 5
BCM-0000-B: max. 2 PA 5

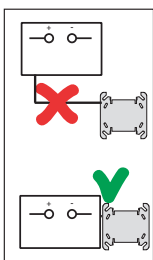
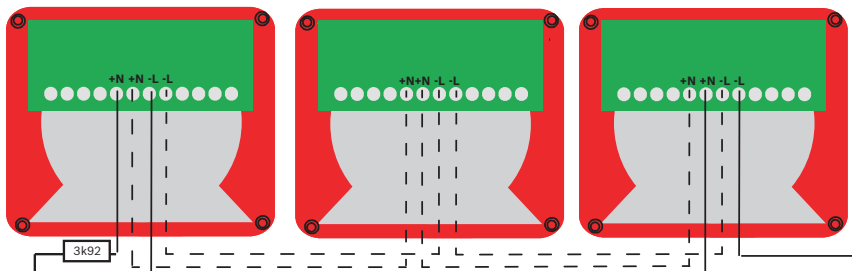


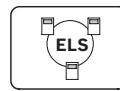


FPP-3000
FPP-5000
BCM-0000-B

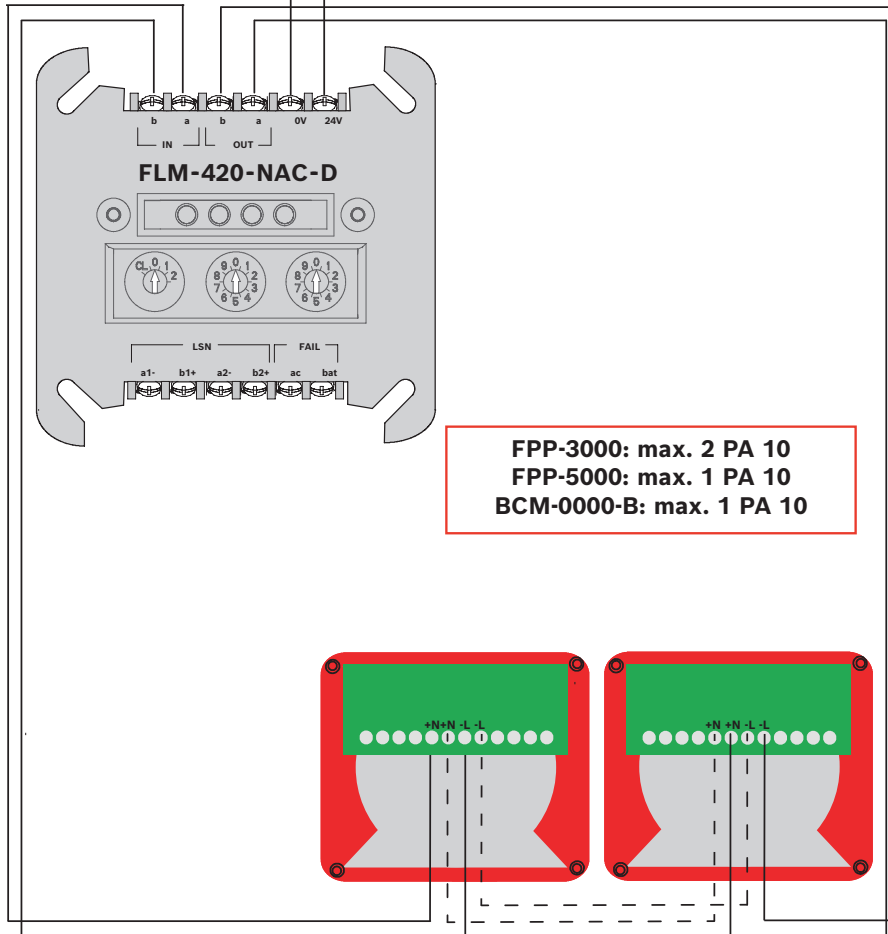


FPP-3000: max. 3 PA 5
FPP-5000: max. 2 PA 5
BCM-0000-B: max. 2 PA 5

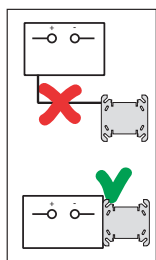




FPP-3000(ZSP135-DR)
 FPP-5000
 BCM-0000-B

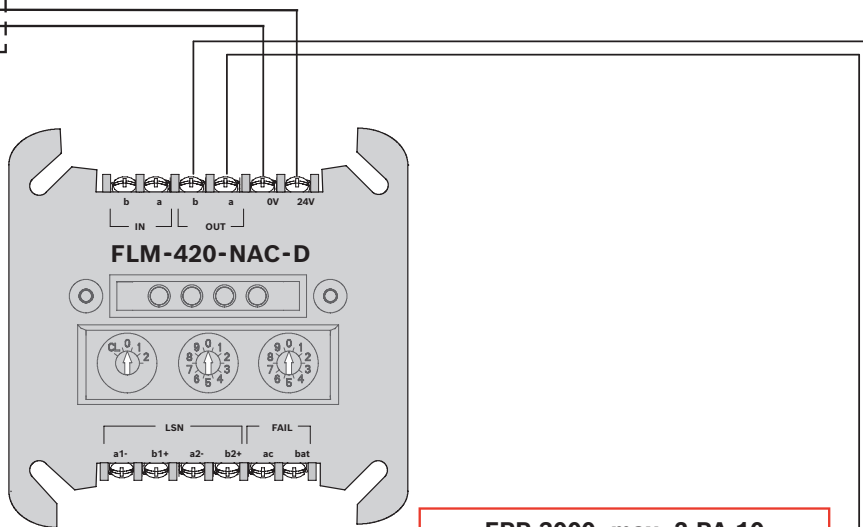


FPP-3000: max. 2 PA 10
FPP-5000: max. 1 PA 10
BCM-0000-B: max. 1 PA 10

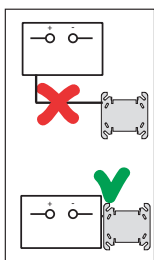
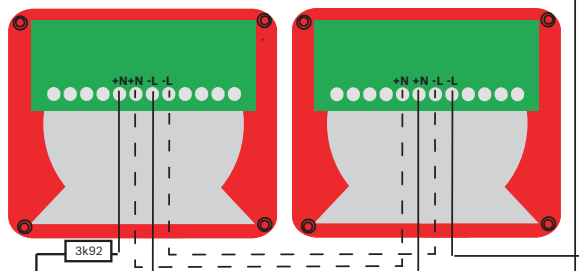


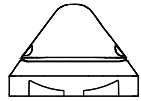


FPP-3000
FPP-5000
BCM-0000-B

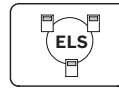


FPP-3000: max. 2 PA 10
FPP-5000: max. 1 PA 10
BCM-0000-B: max. 1 PA 10

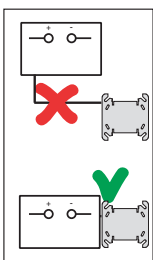
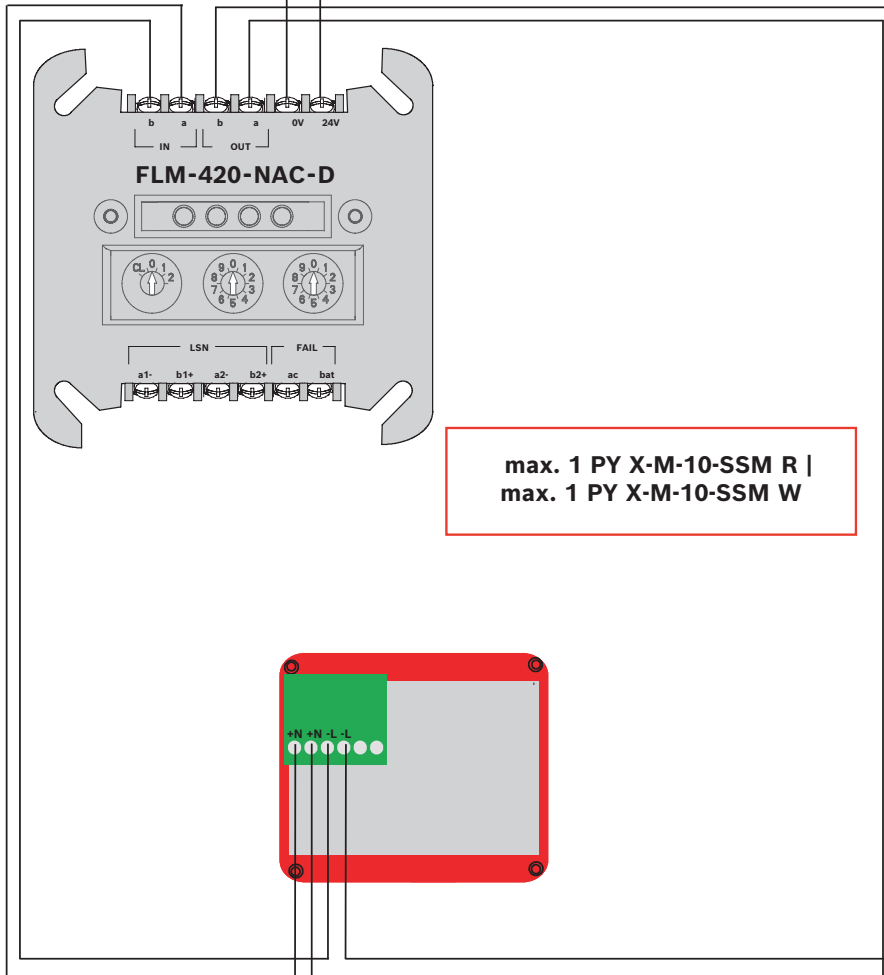


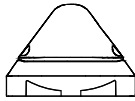


PY X-M-10-SSM R
PY X-M-10-SSM W



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

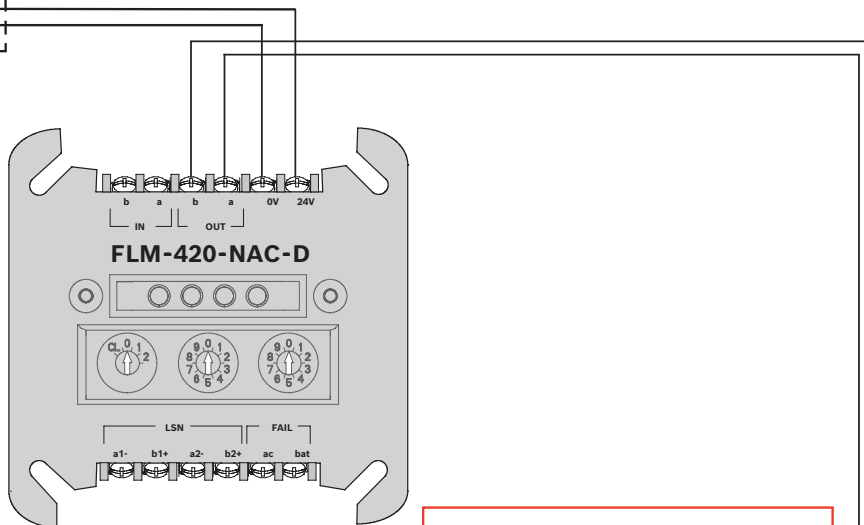




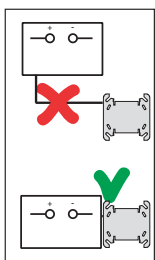
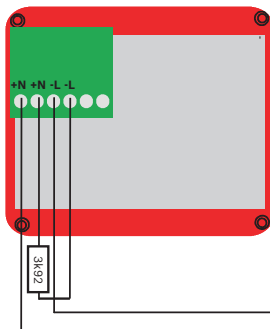
PY X-M-10-SSM R
PY X-M-10-SSM W



FPP-3000
FPP-5000
BCM-0000-B

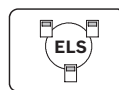


max. 1 PY X-M-10-SSM R |
max. 1 PY X-M-10-SSM W

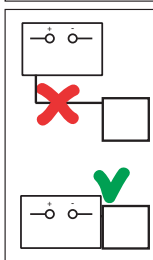
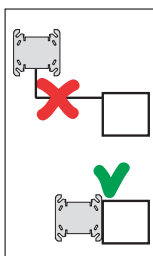
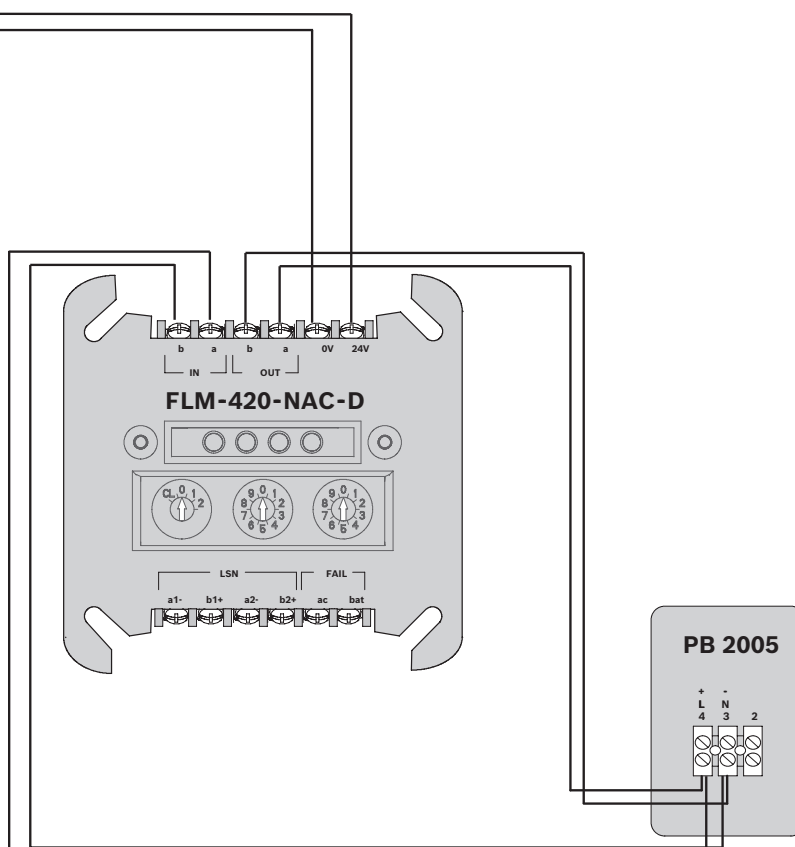




PB 2005



FPP-5000
BCM-0000-B

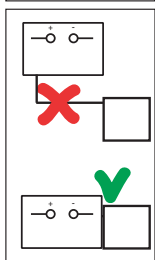
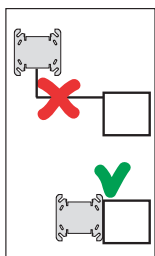
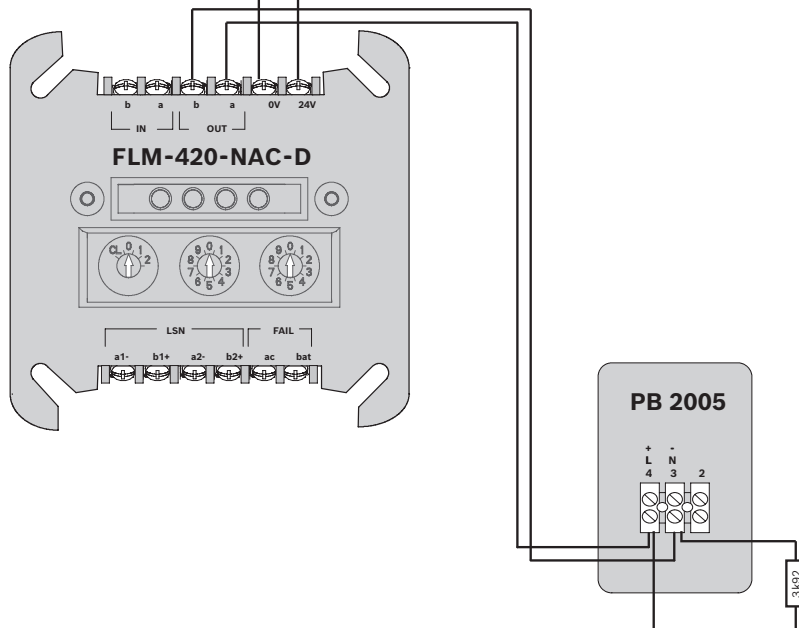


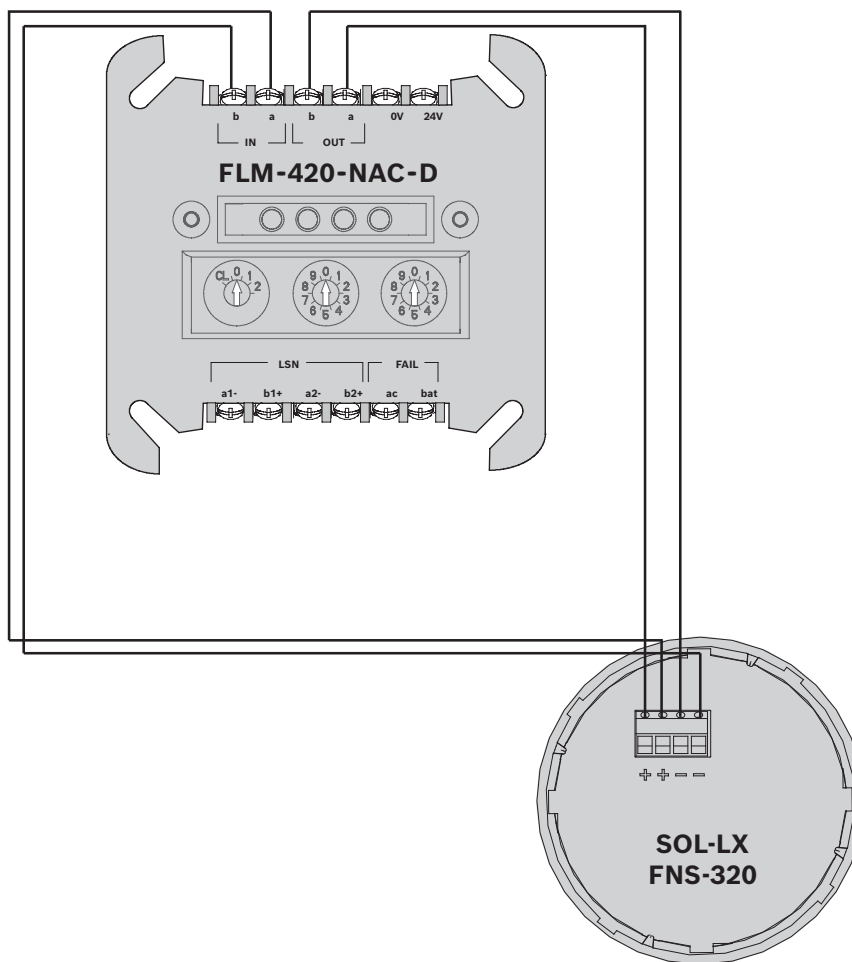
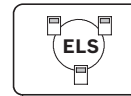


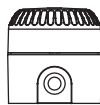
PB 2005



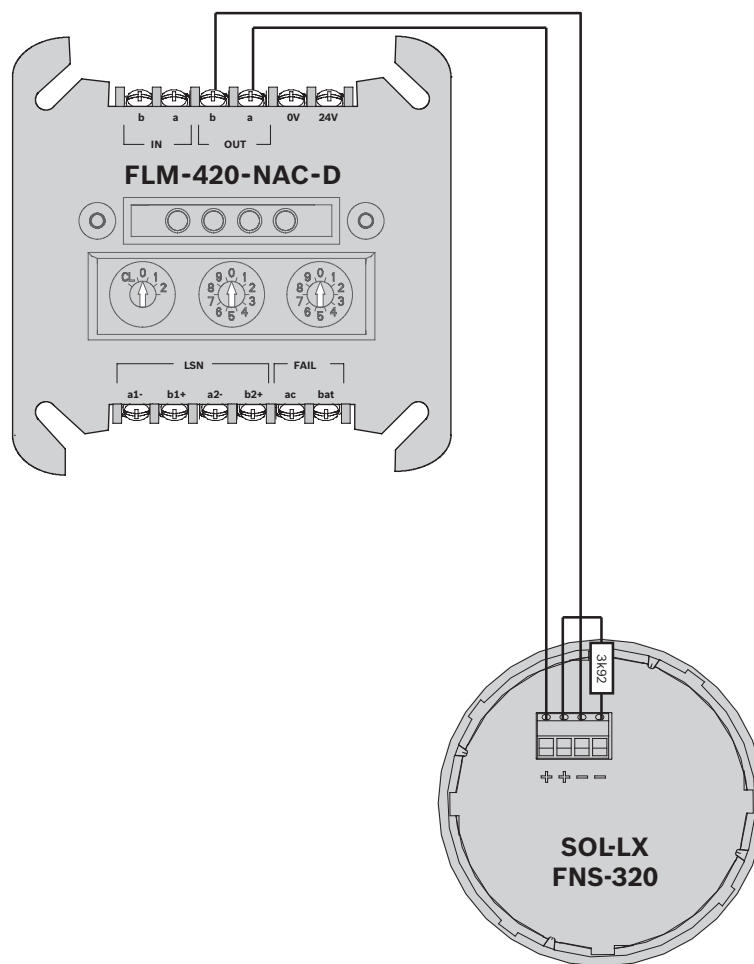
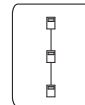
FPP-5000
BCM-0000-B

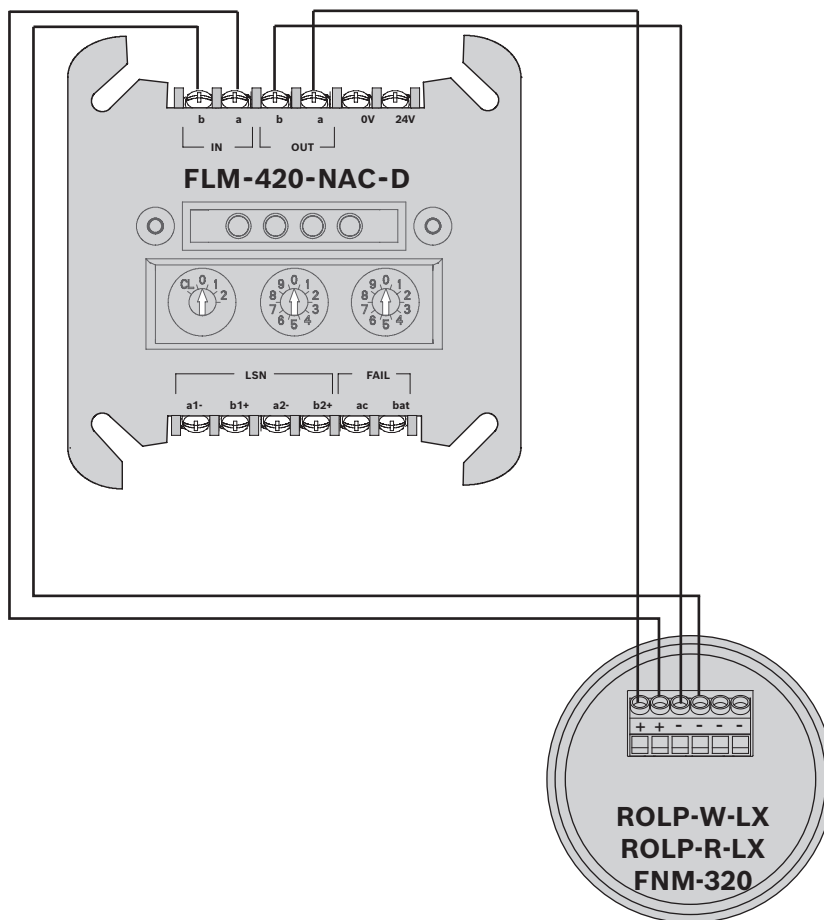
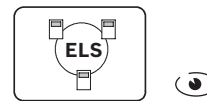


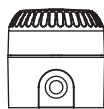
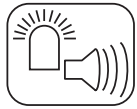




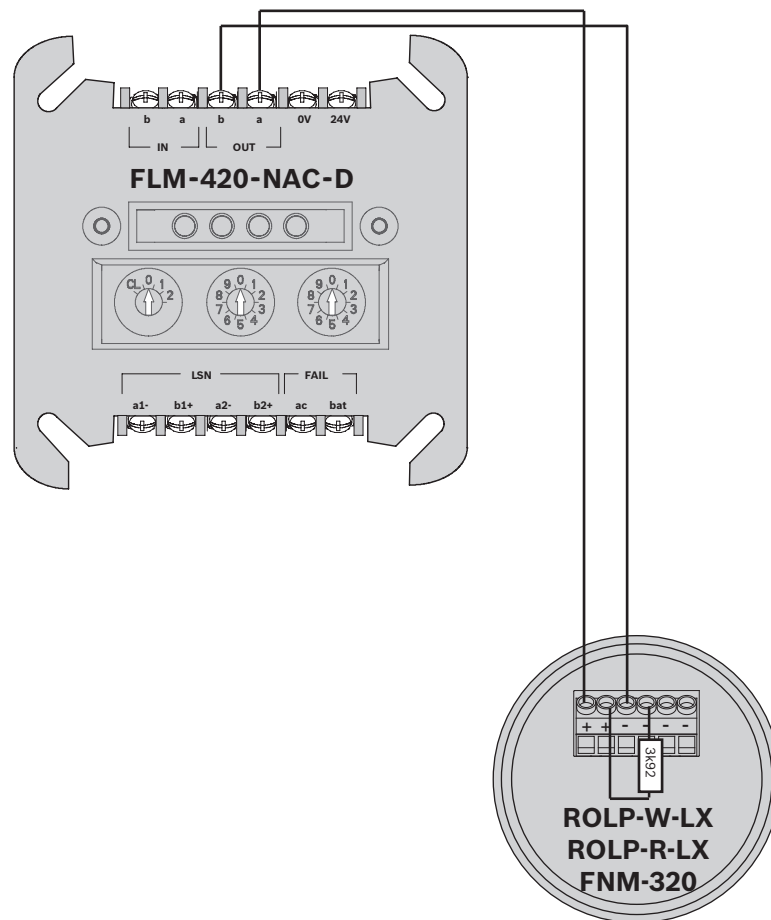
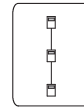
**SOL-LX
FNS-320**



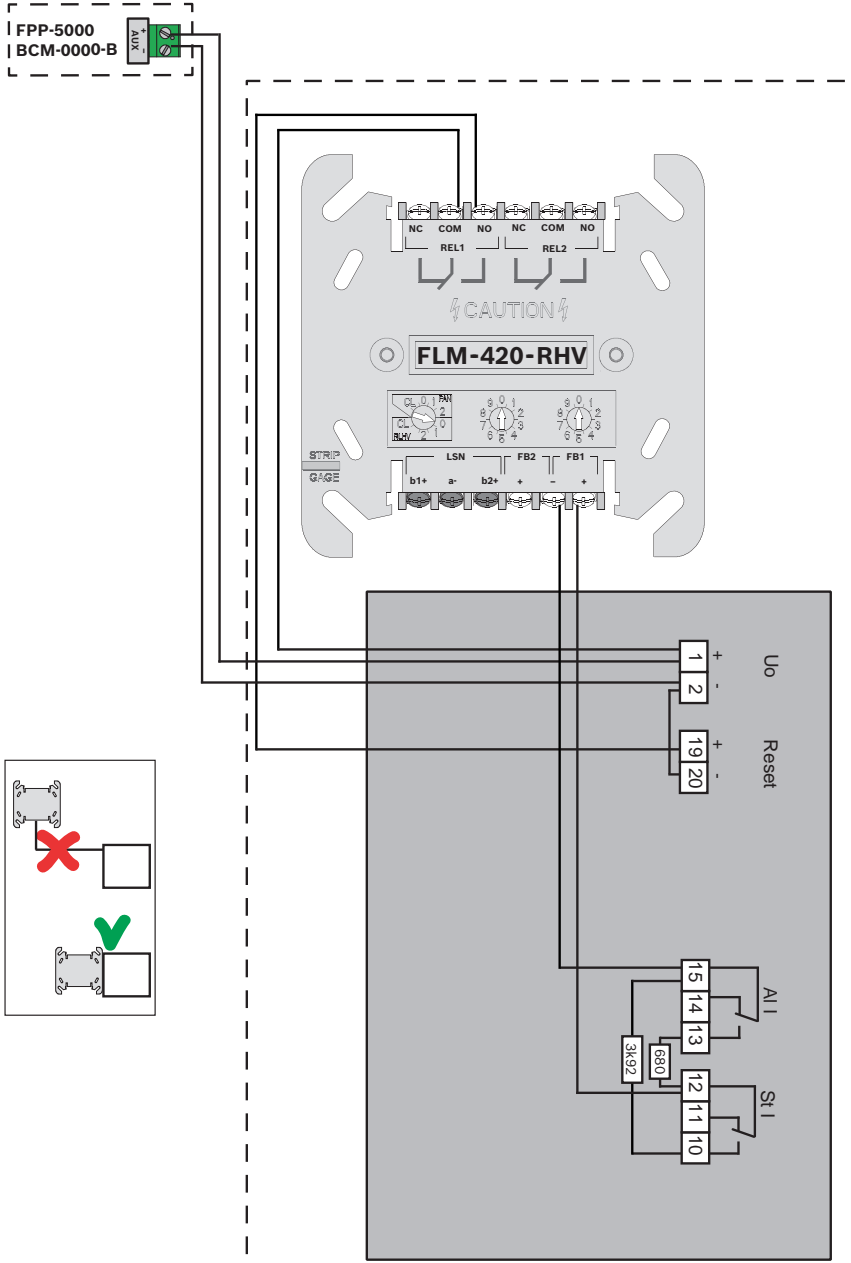




ROLP-W-LX
ROLP-R-LX
FNM-320

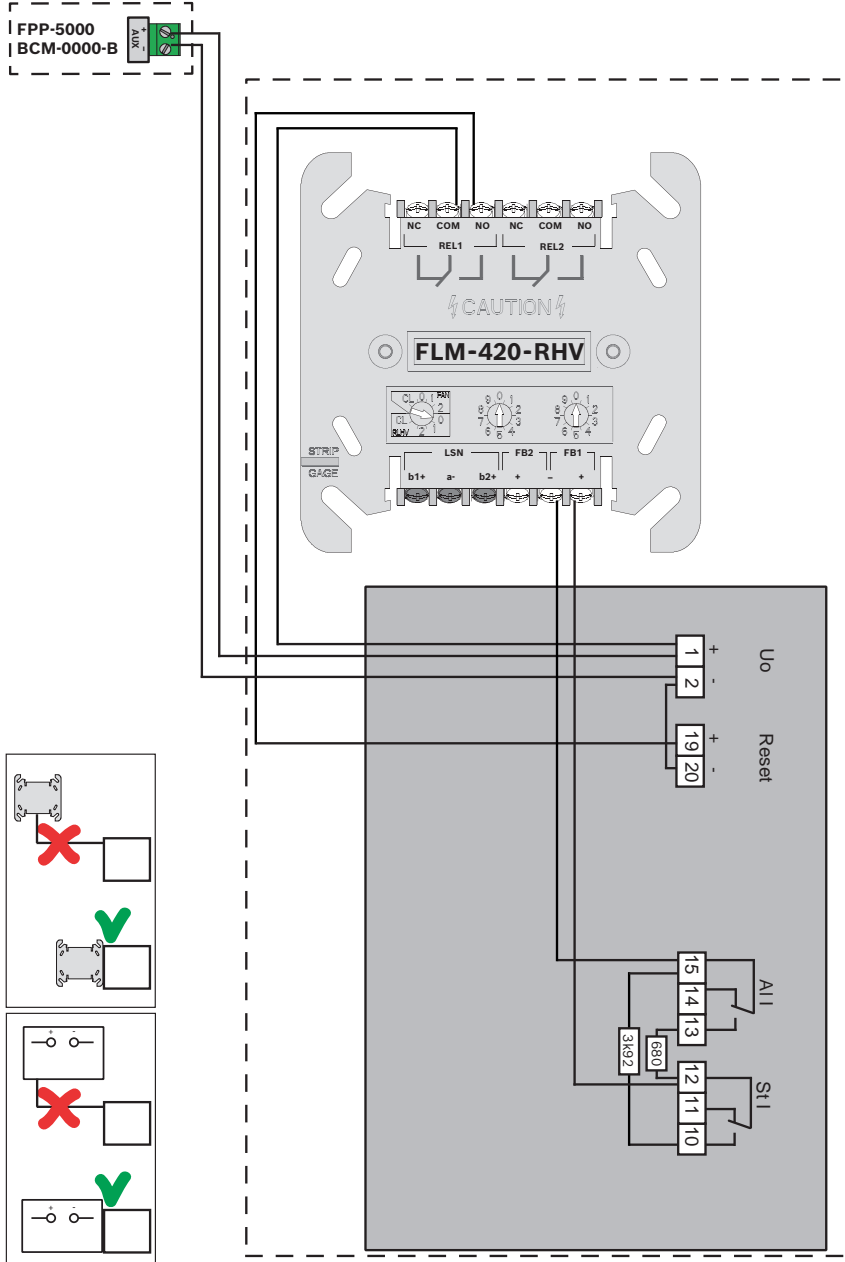


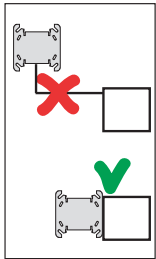
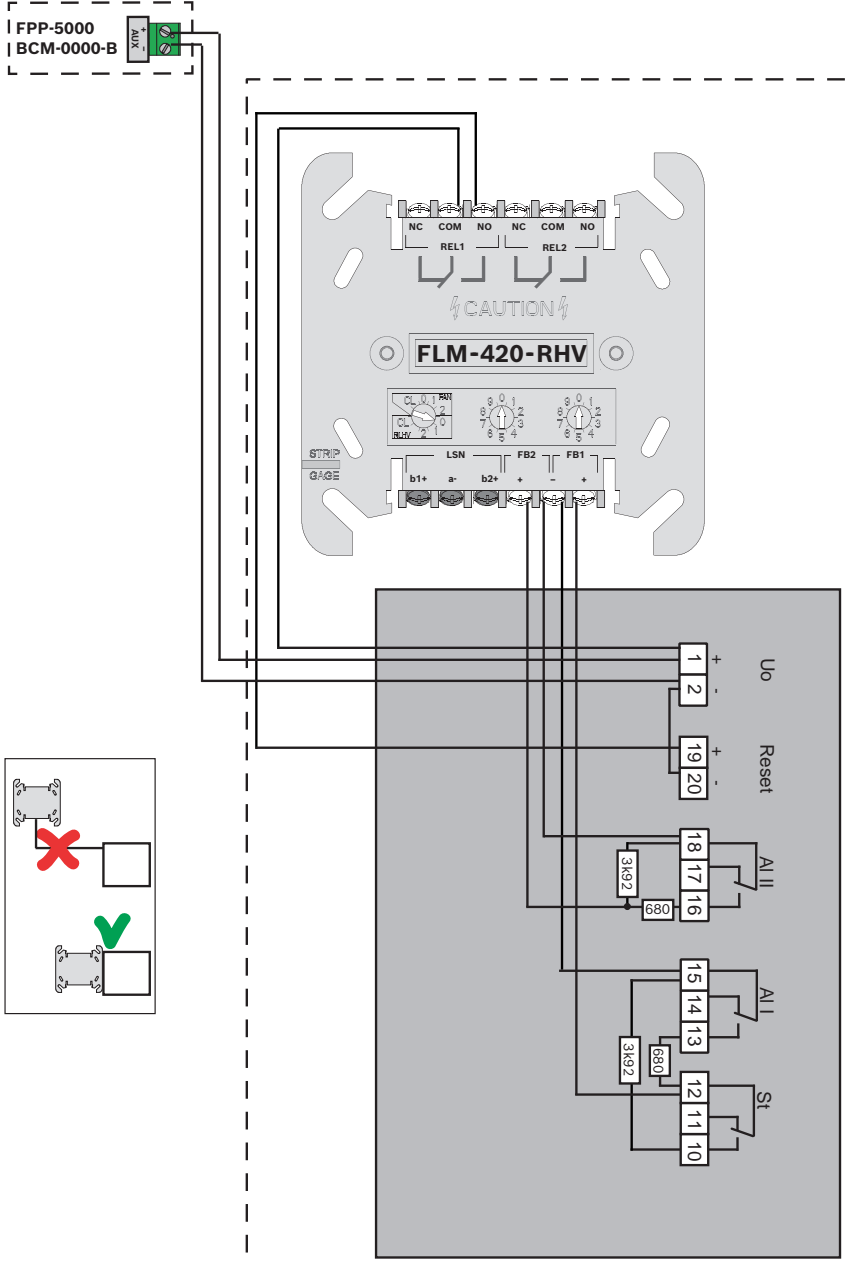
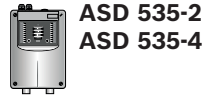
2.5.4 FLM-420-RHV





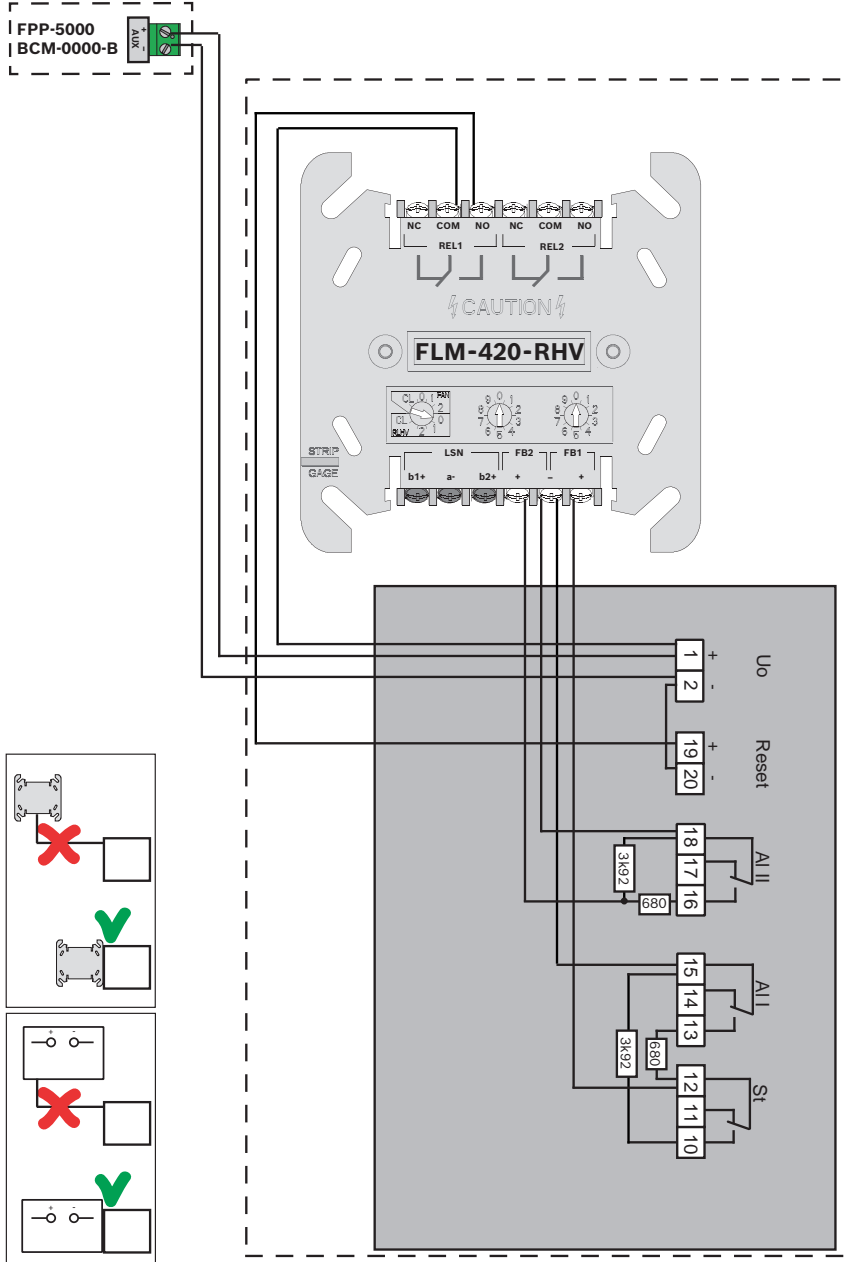
ELS

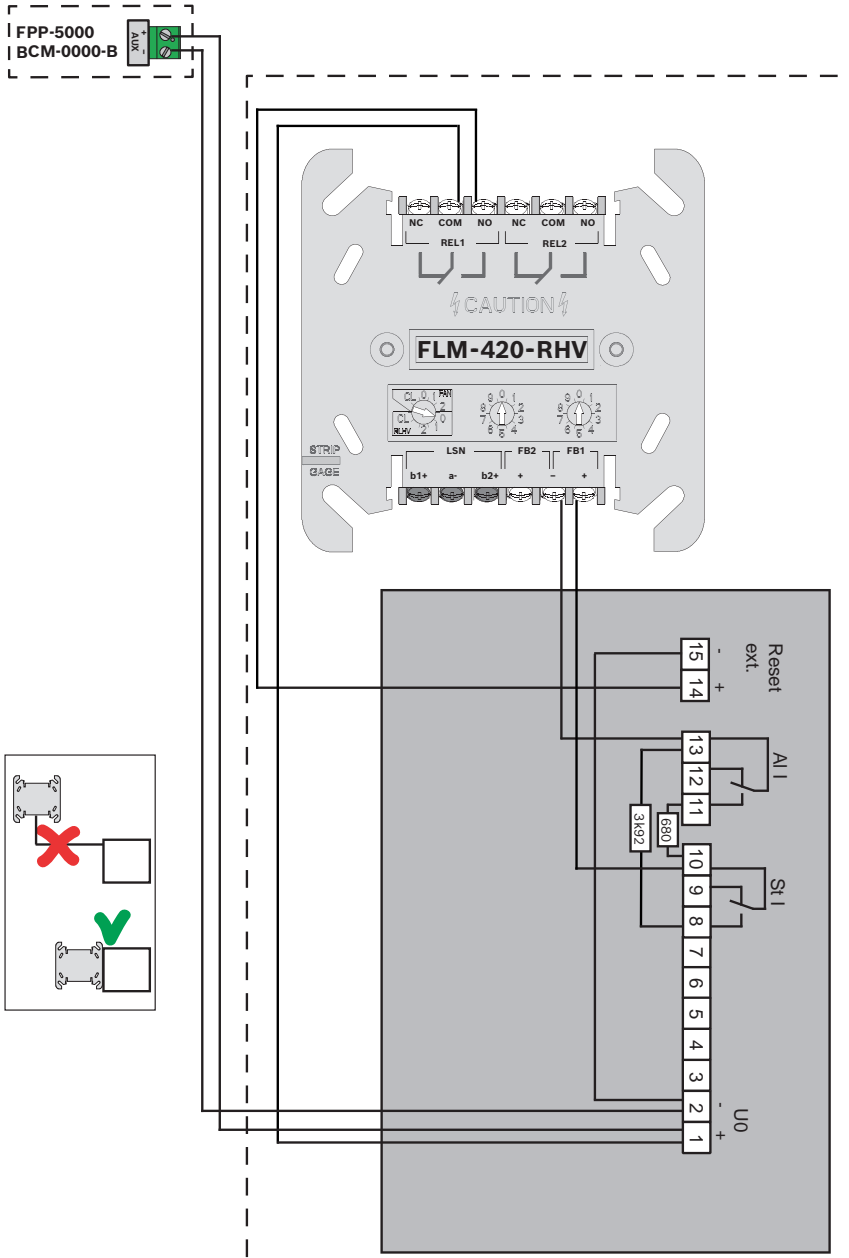






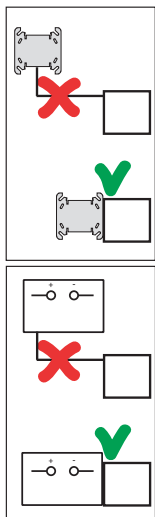
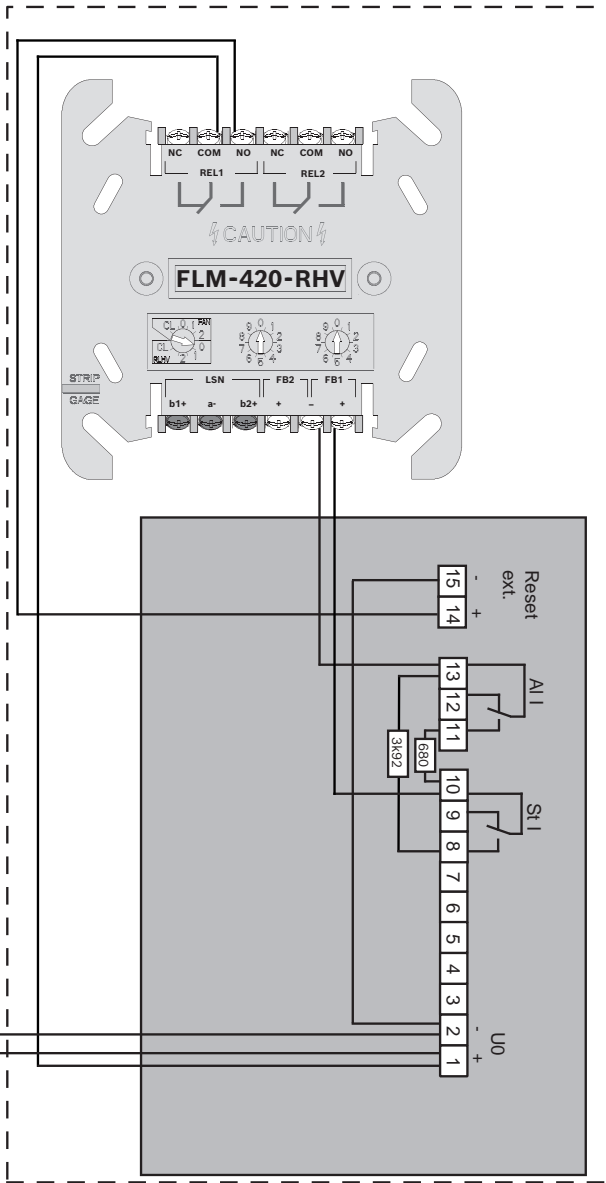
ELS





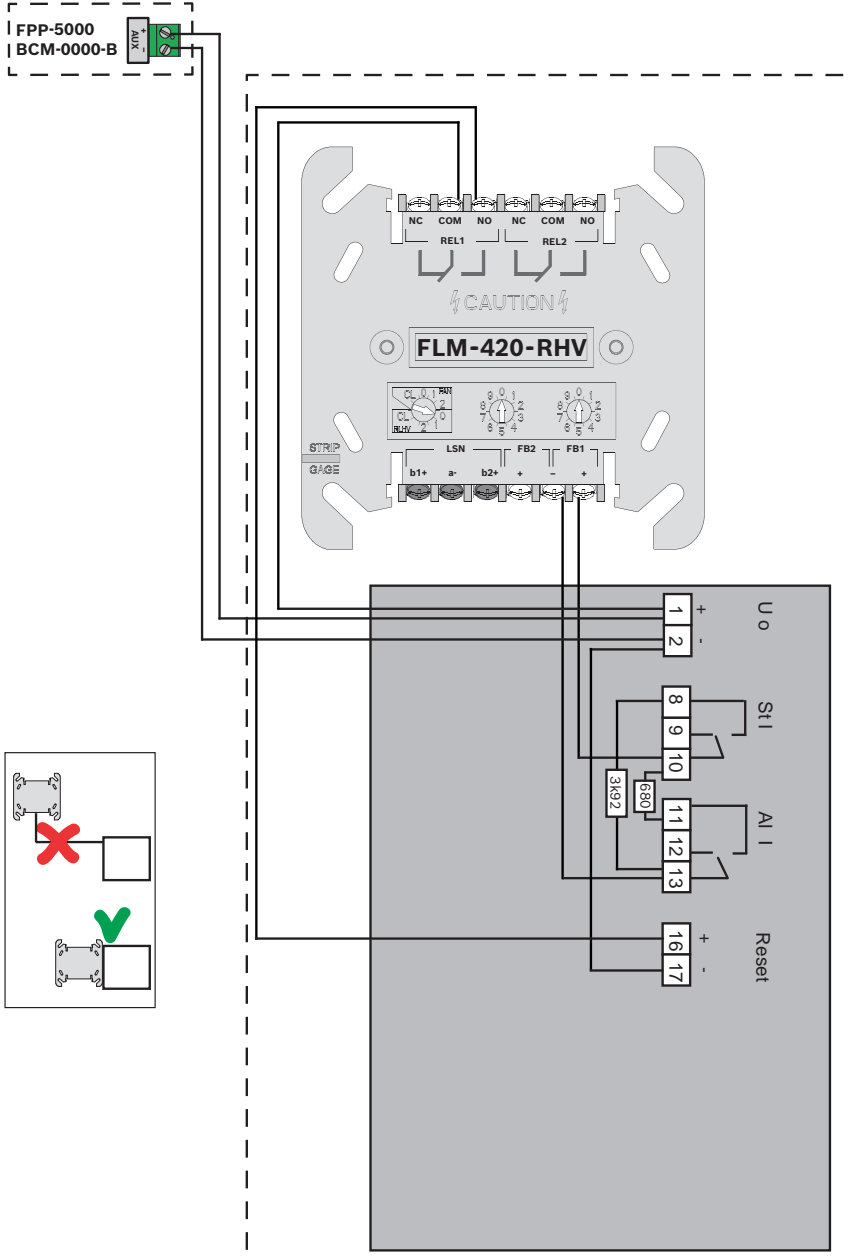


FPP-5000
BCM-0000-B





ADW 535-1

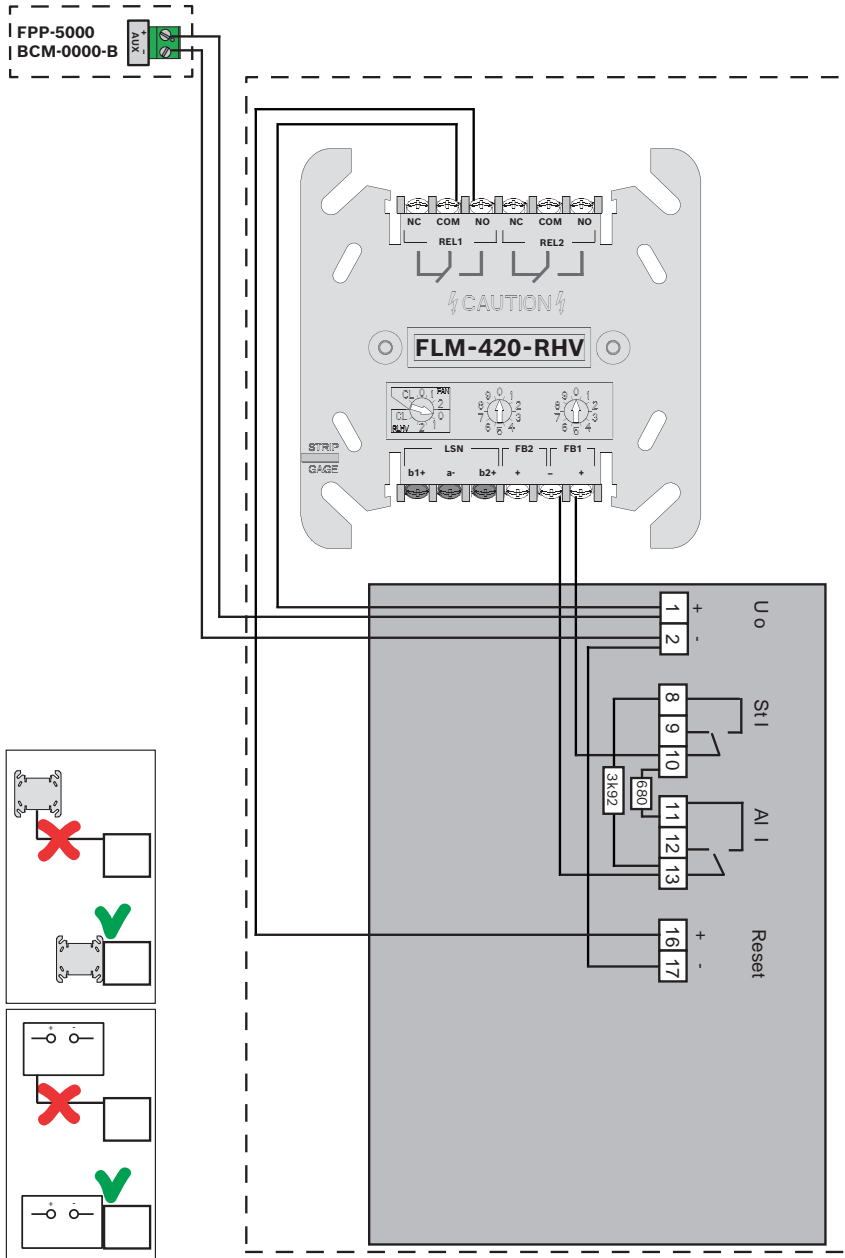




ADW 535-1

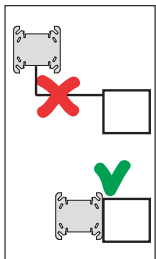
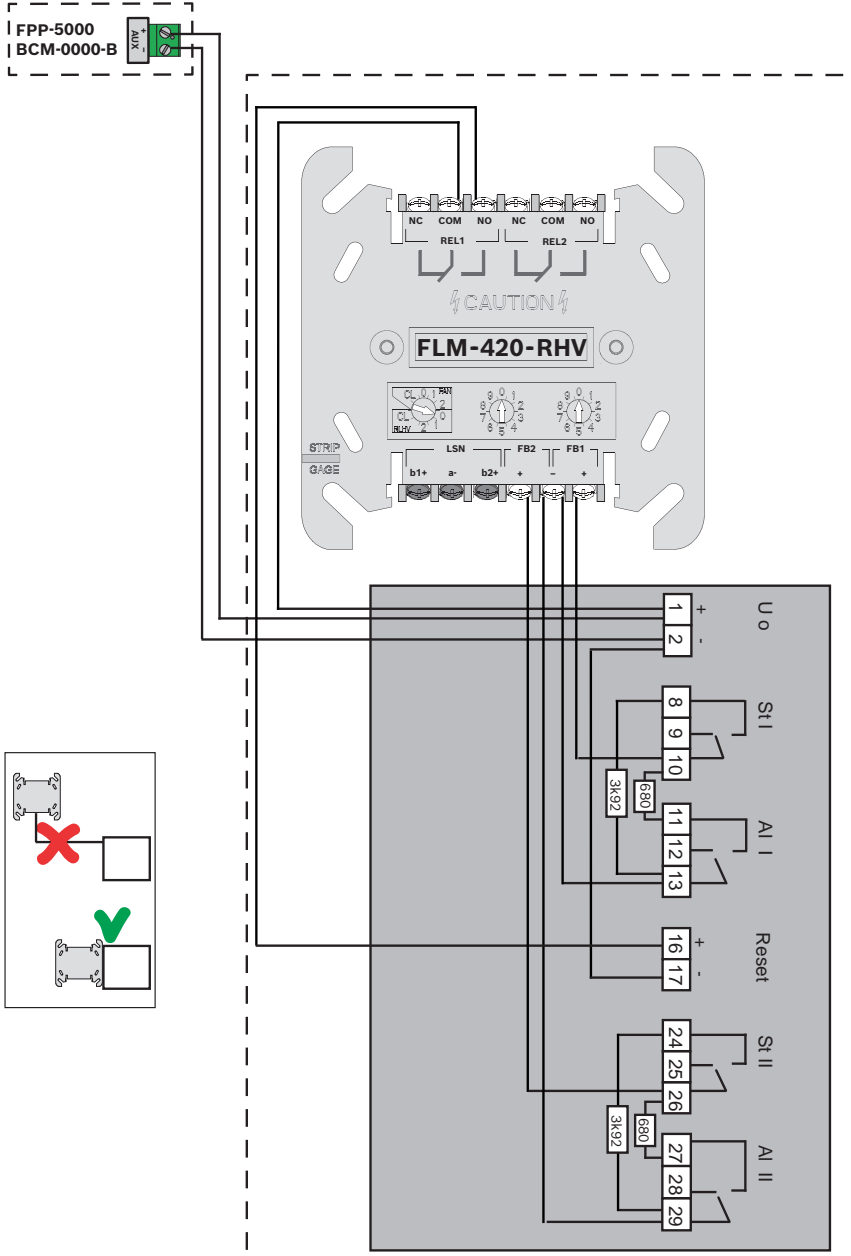


ELS





ADW 535-2

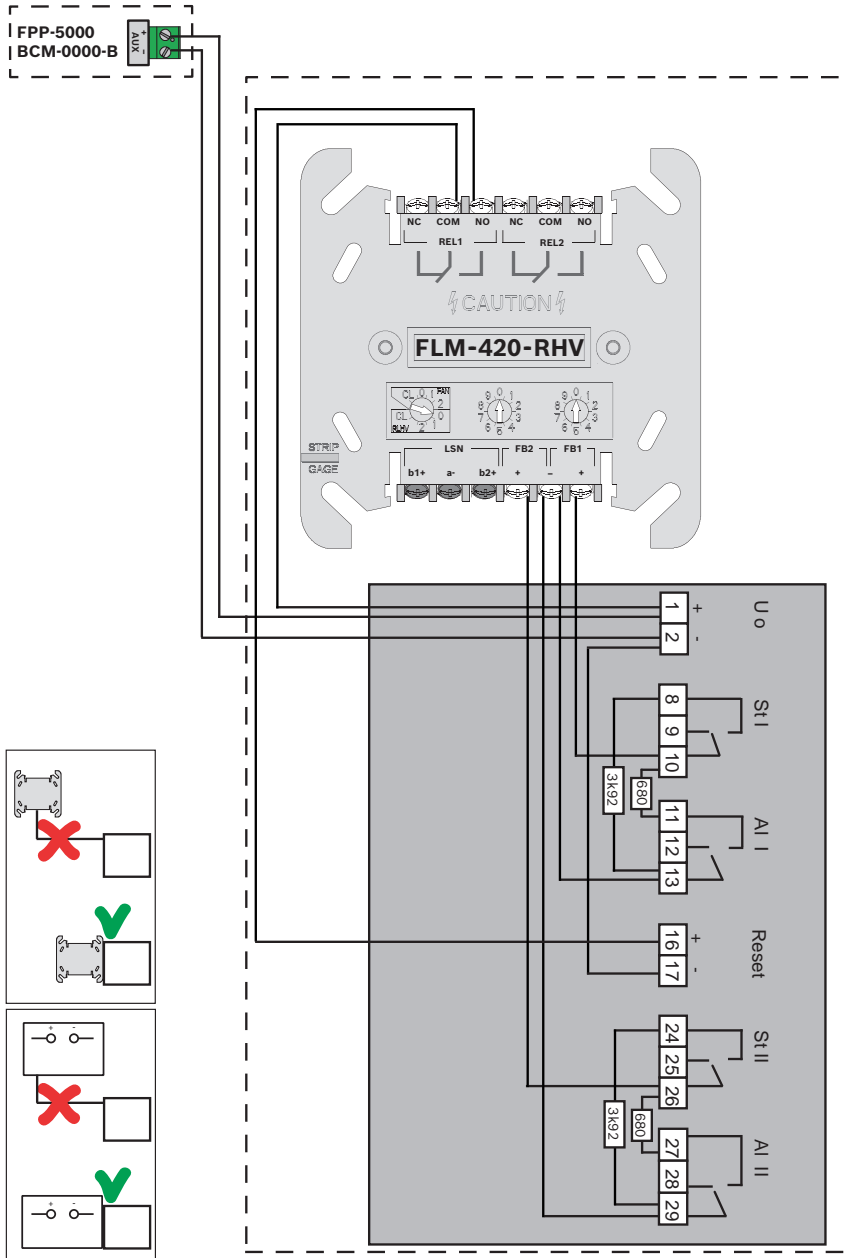




ADW 535-2

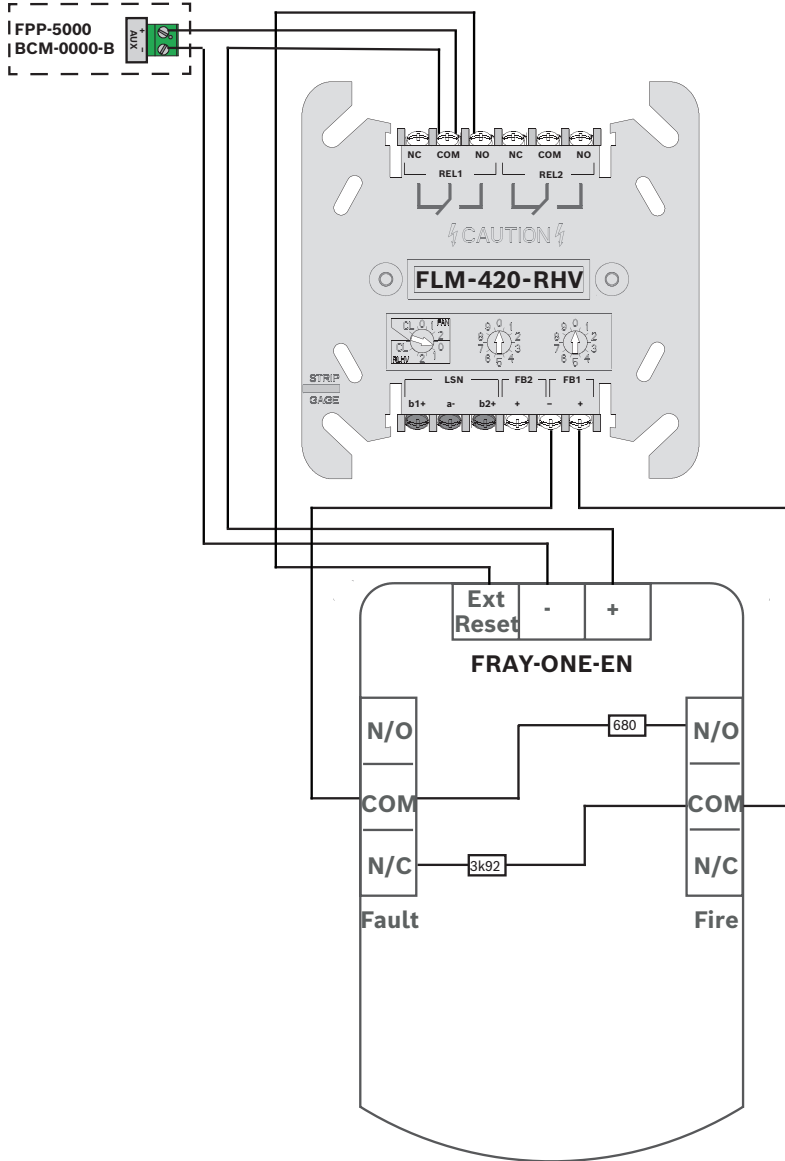


ELS





Fireray One

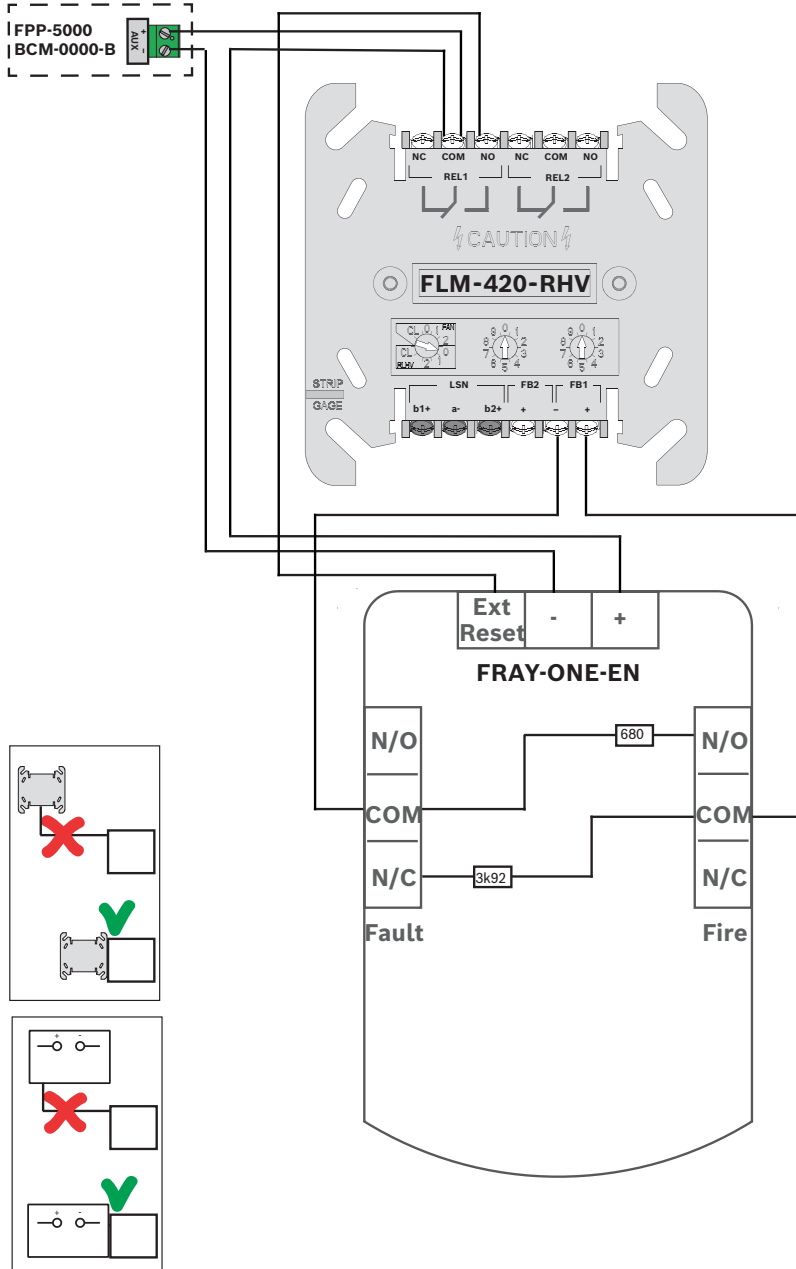




Fireray One



ELS

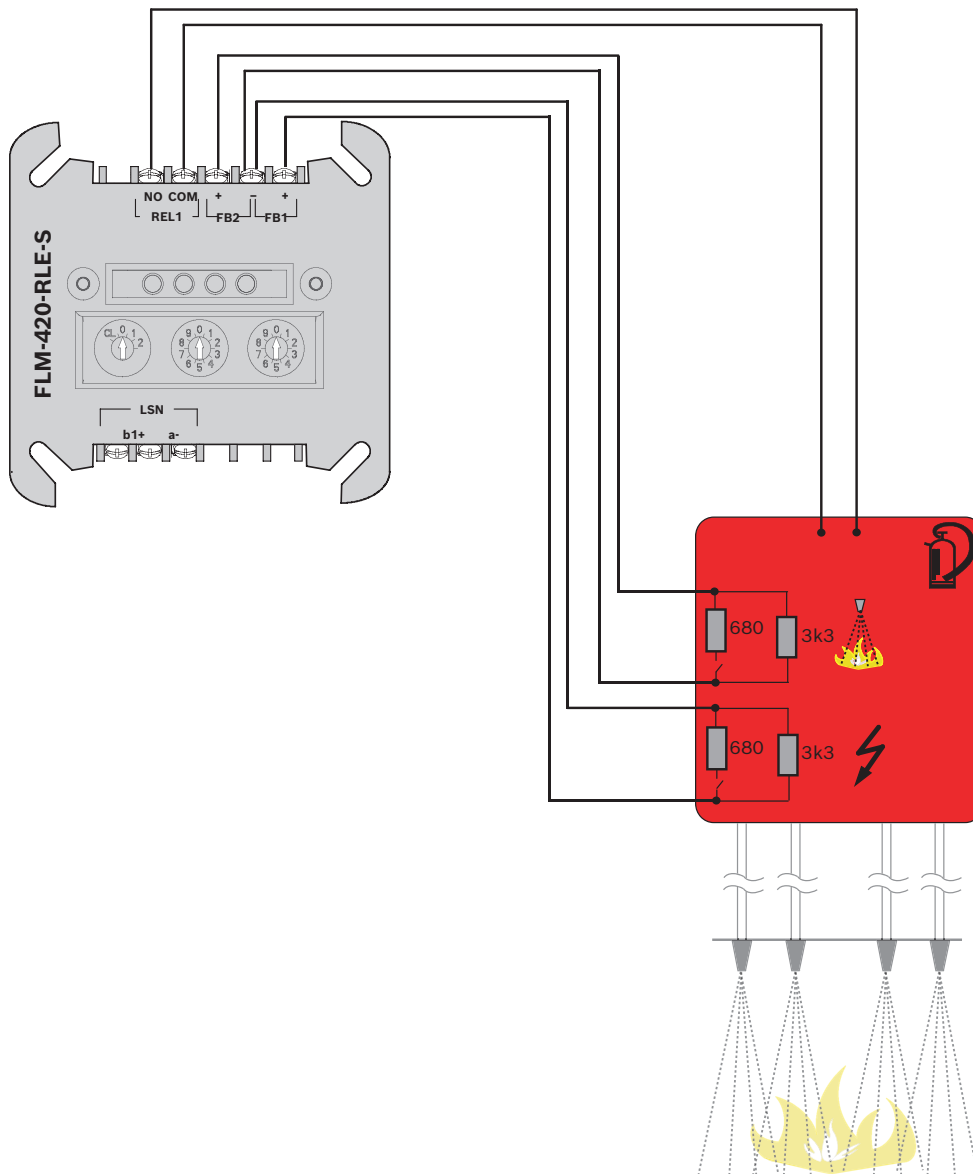


2.5.5

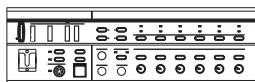
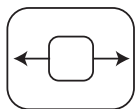
FLM-420-RLE-S



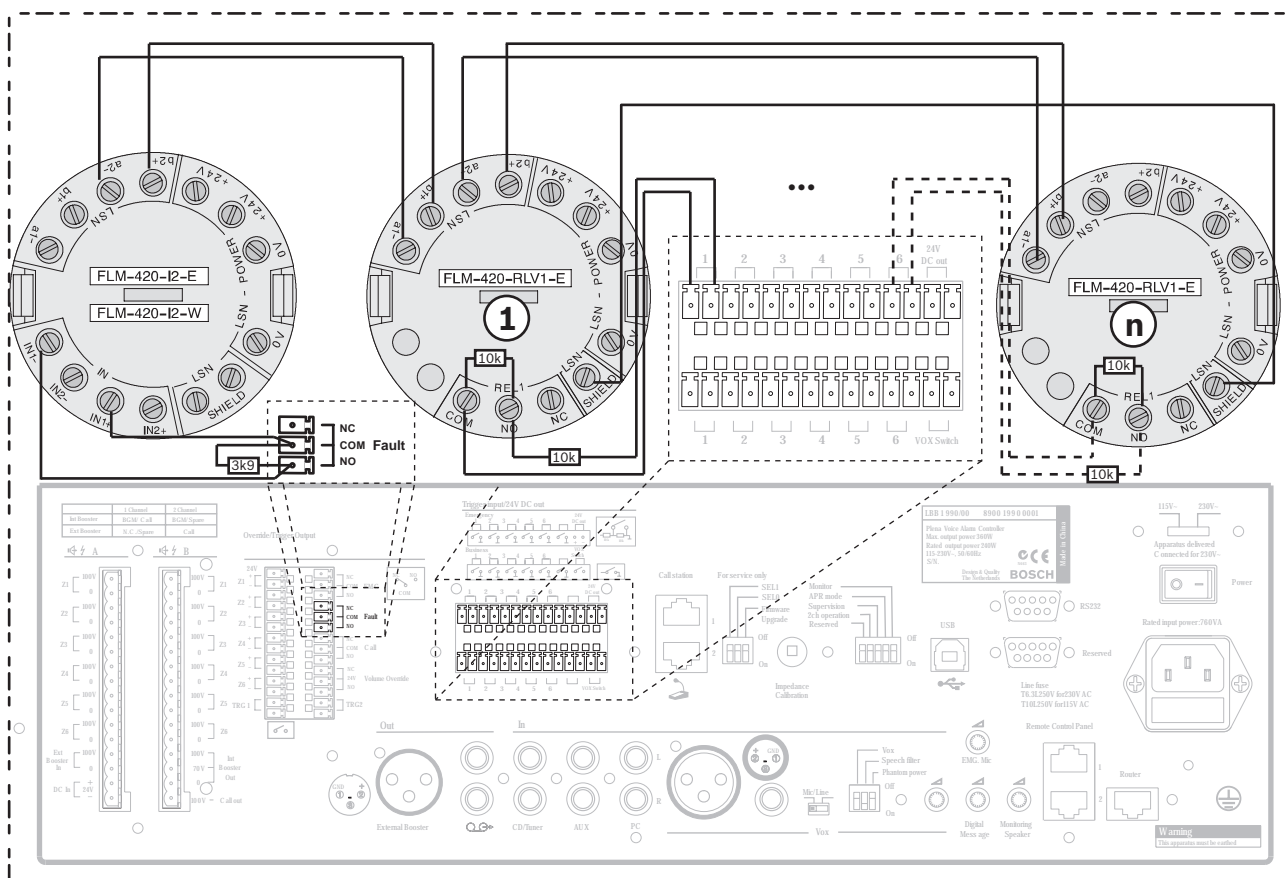
VdS 2496



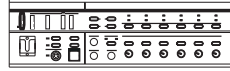
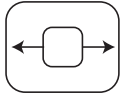
2.5.6 FLM-420-RLV1-E



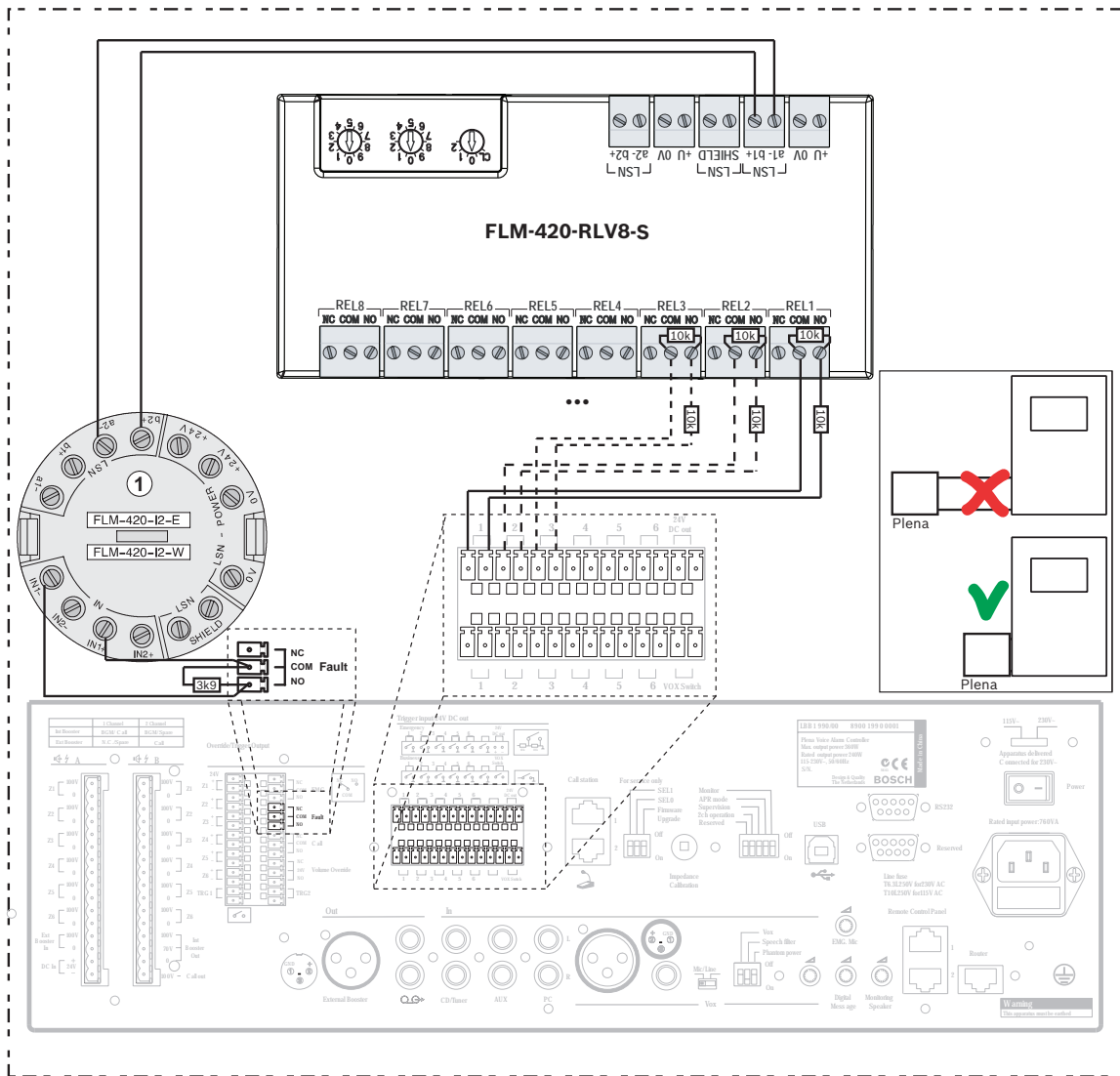
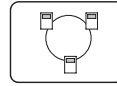
Plena



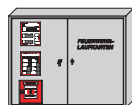
2.5.7 FLM-420-RLV8-S



Plena



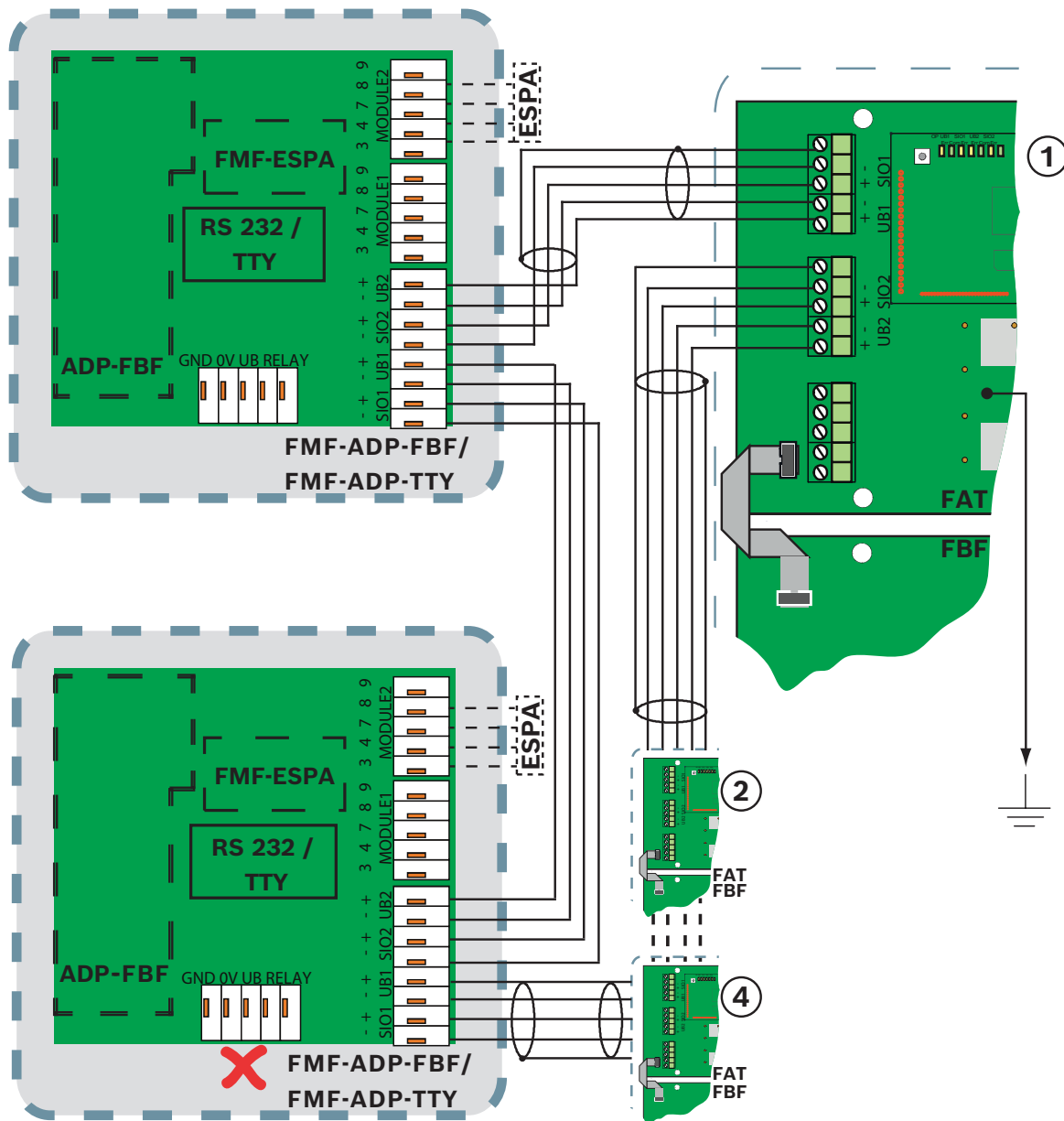
2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS



2.6

EOL



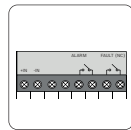
CZM 0004 A, stran 189

LSN 0300 A, stran 201

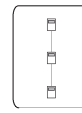
FLM-420/4-CON-S/D, stran 246

2.6.1

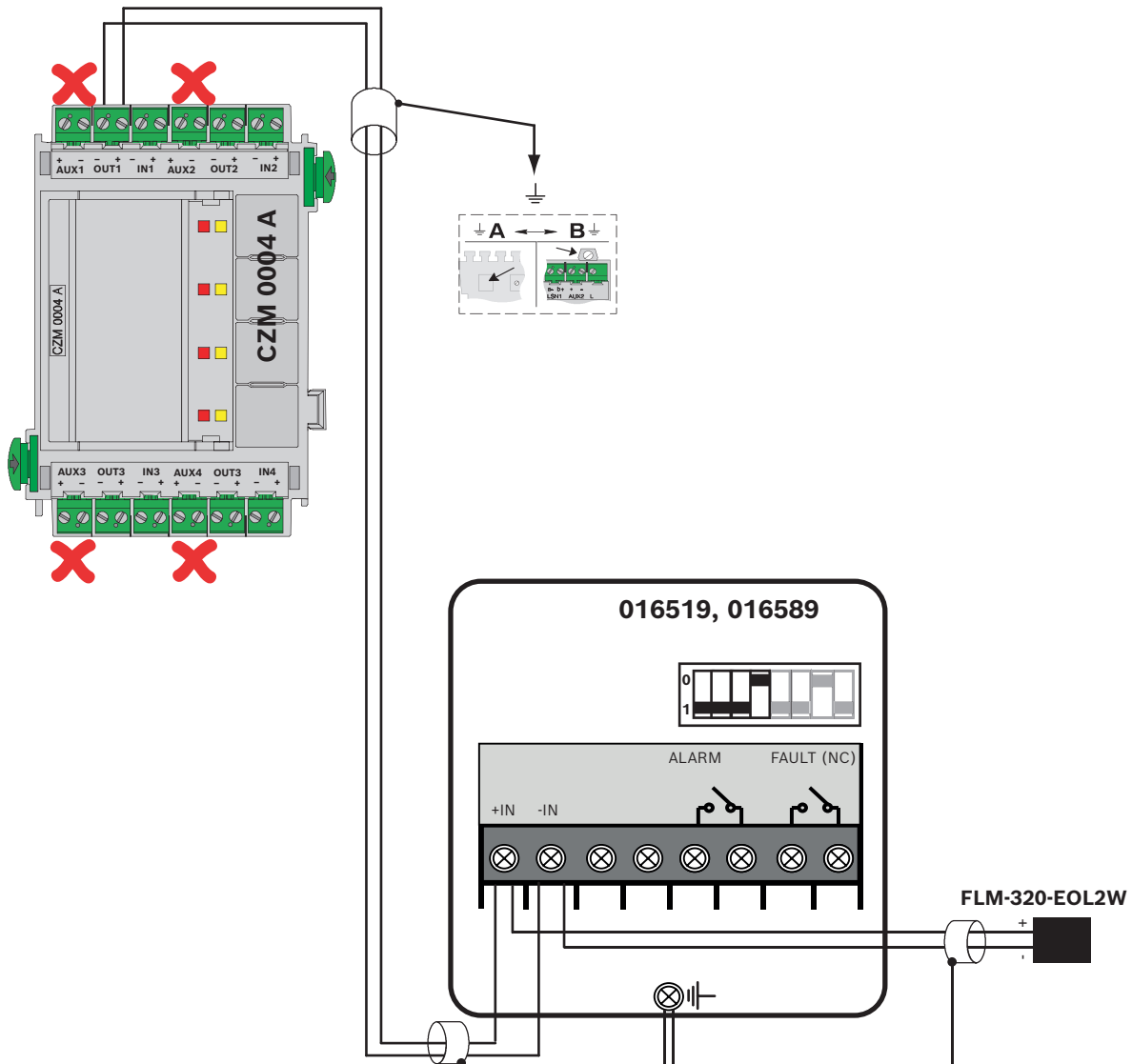
CZM 0004 A

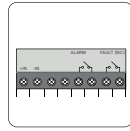


016519, 016589
IR3 Flame Detector

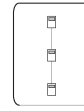


ELS

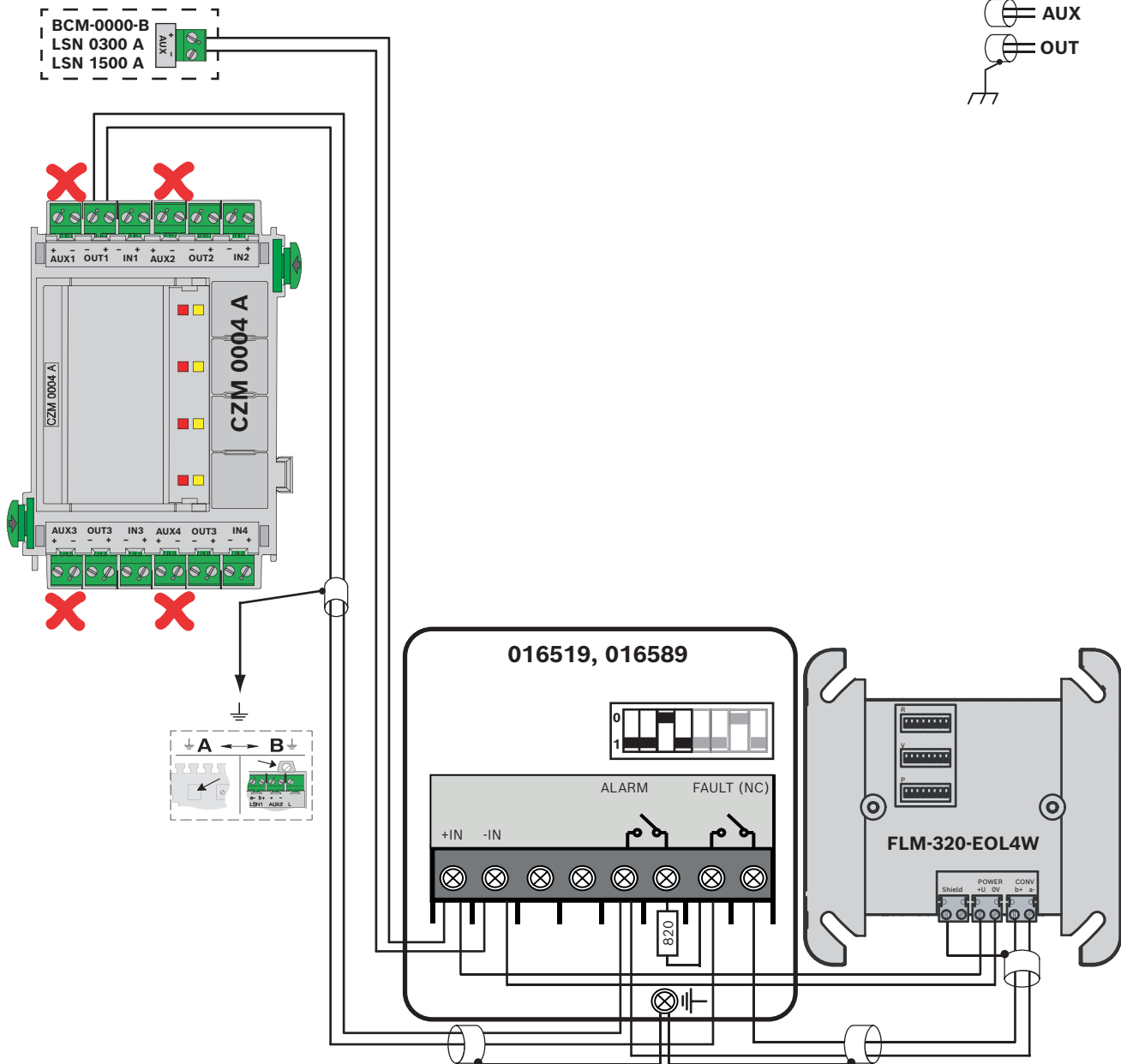




016519, 016589
IR3 Flame Detector



ELS

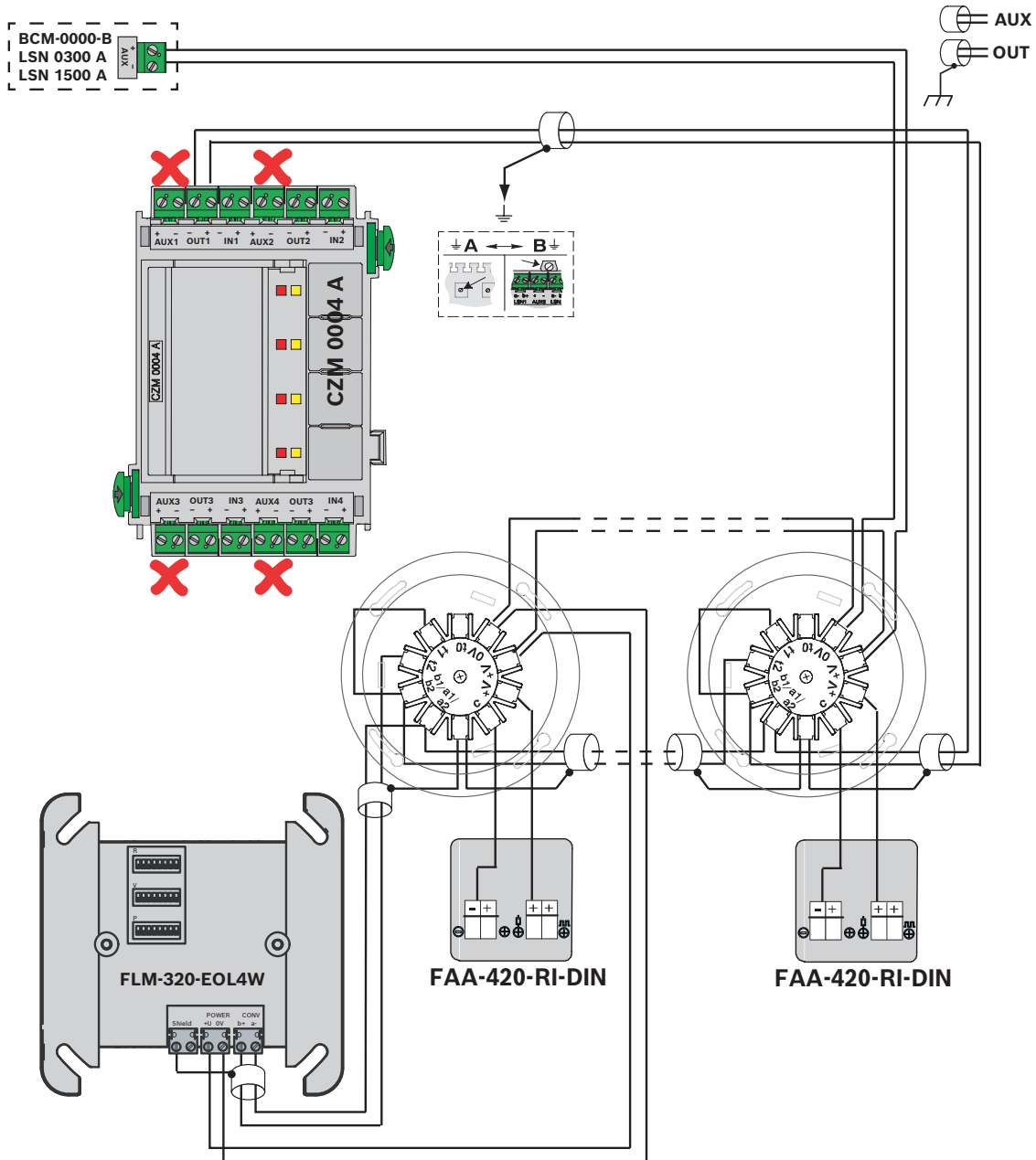


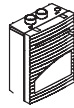


FCA-500-EU
FCP-O 500
FCP-O 500-P
FCP-OC 500
FCP-OC 500-P

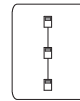


ELS



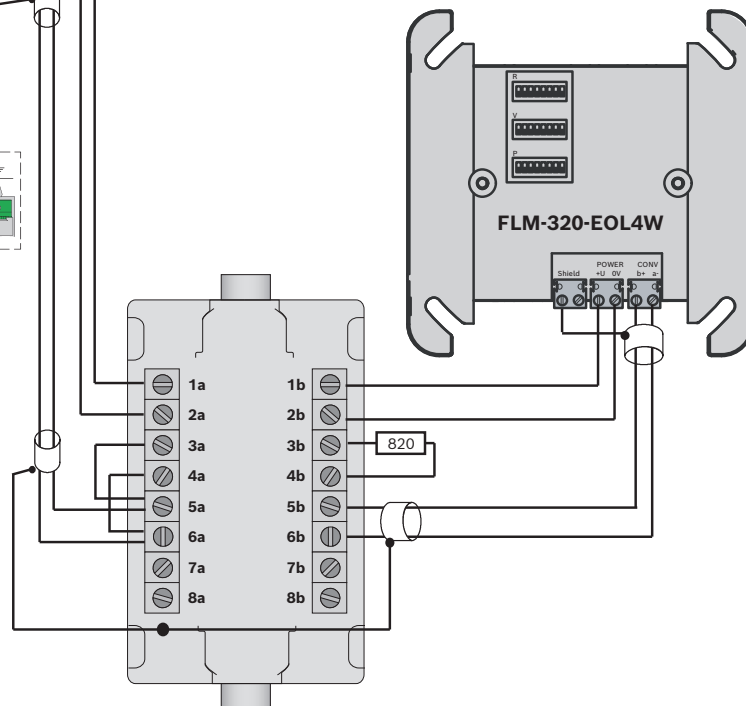
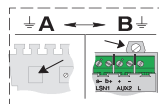
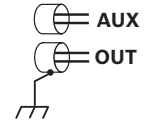
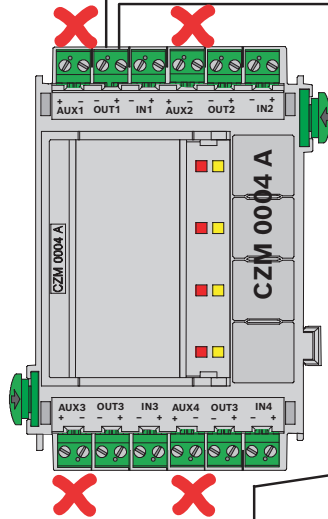


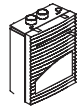
FCS-320-TM Series



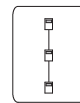
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

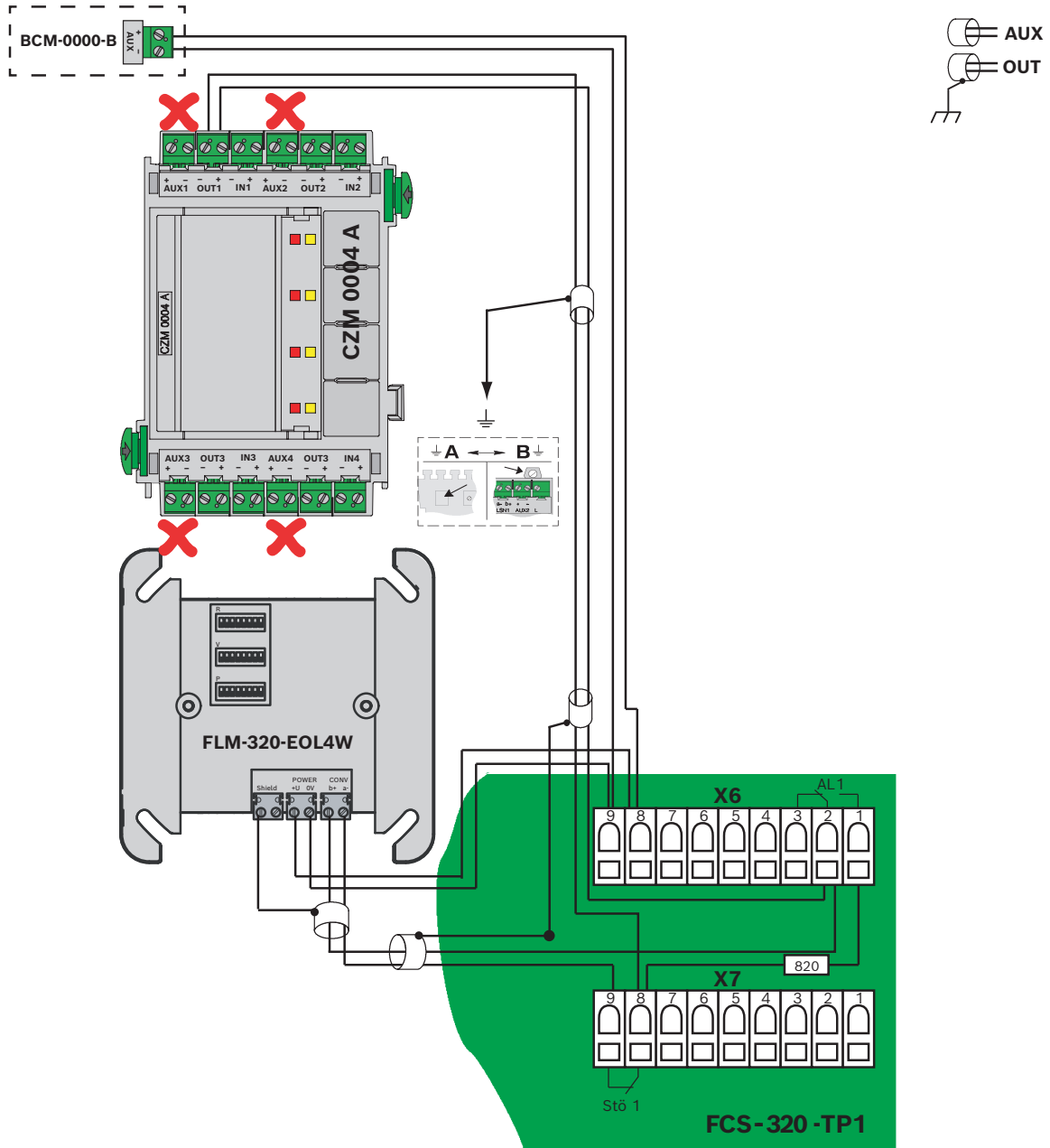


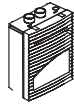


FCS-320-TP1

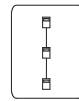


ELS

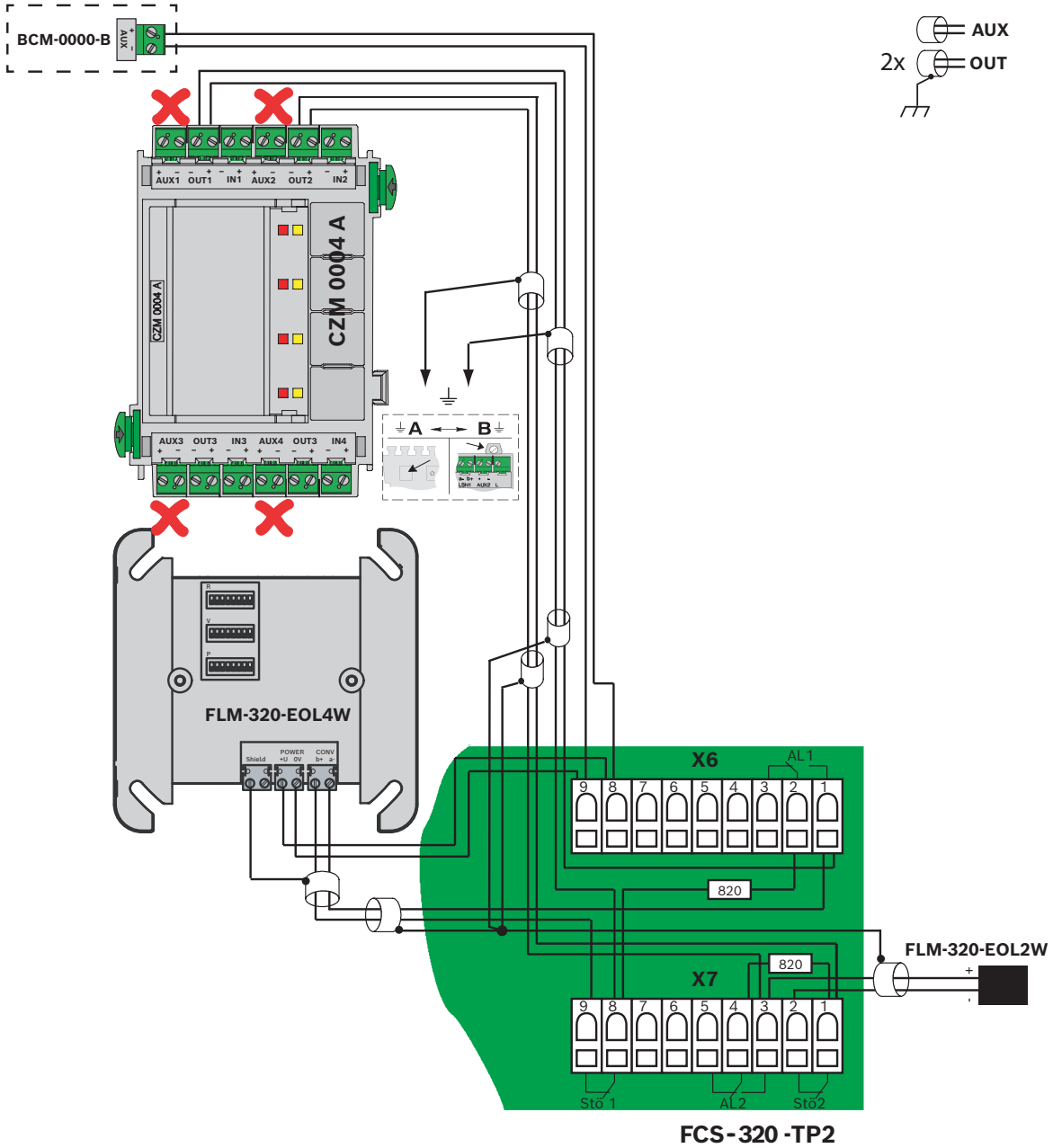




FCS-320-TP2



ELS





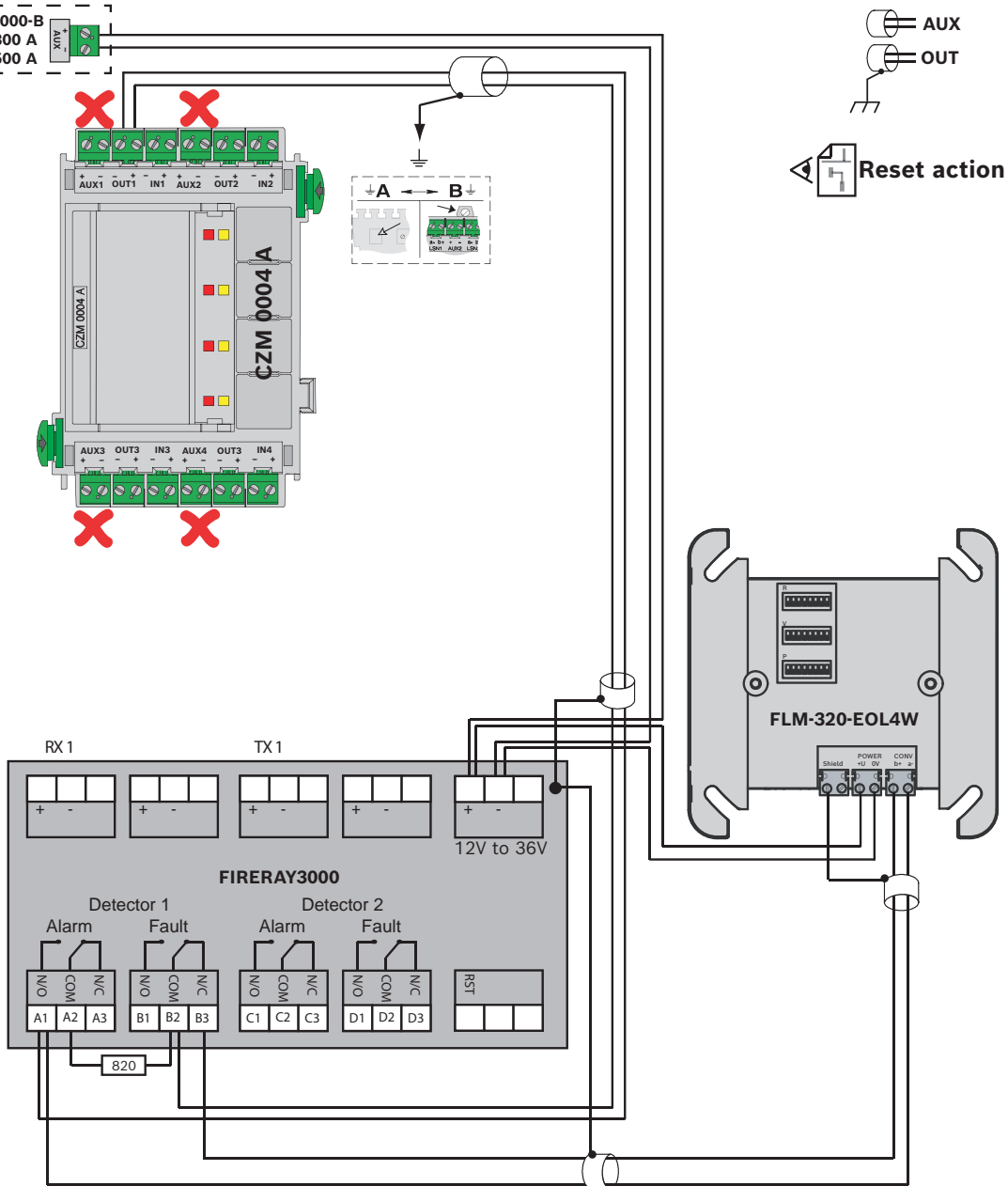
FIRERAY3000

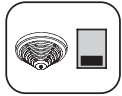
1 x



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



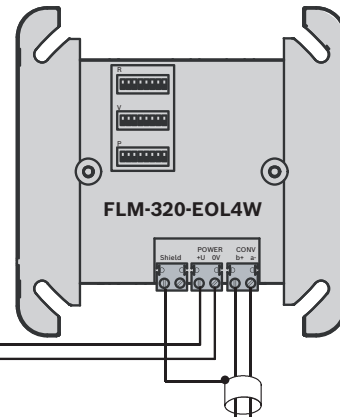
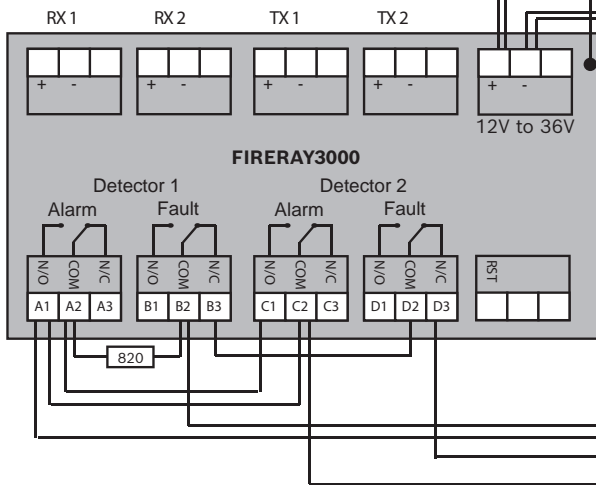
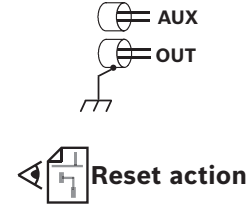
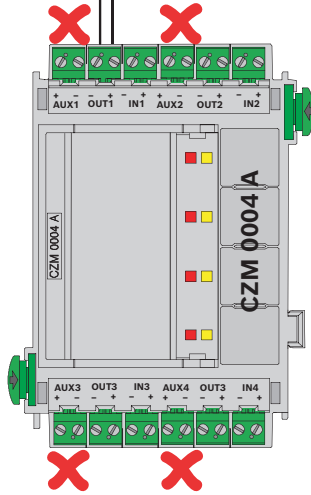


FIRERAY3000
2 x **OUT1**



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



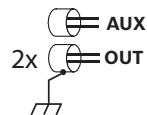
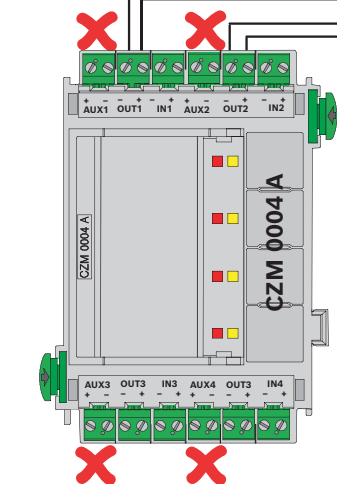


FIRERAY3000
2 x **OUT1+2**

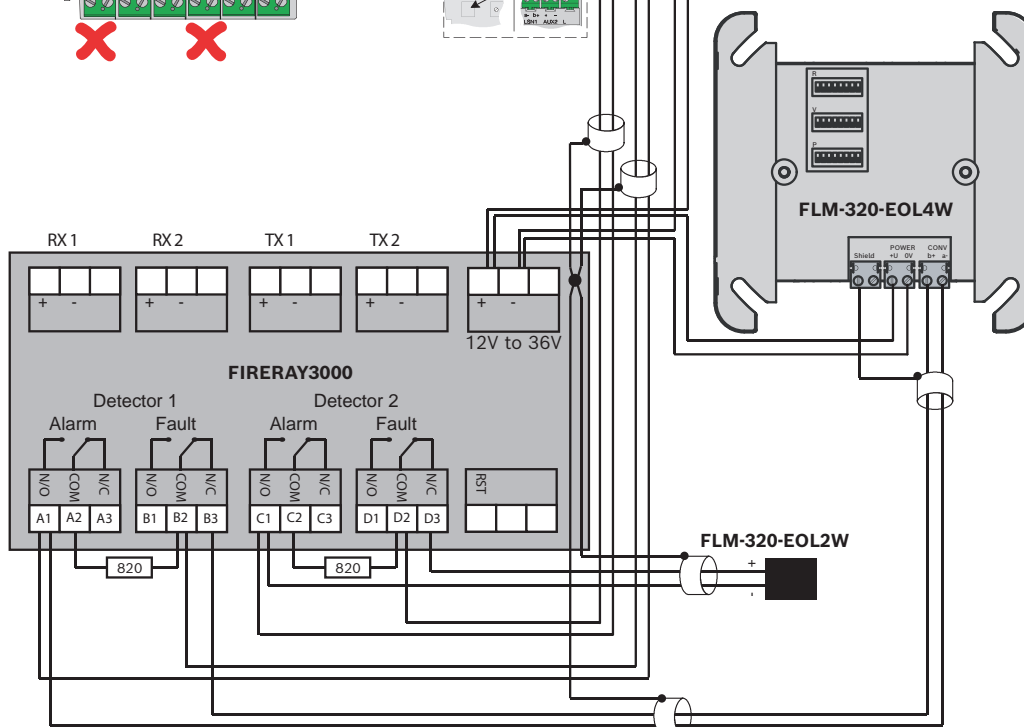
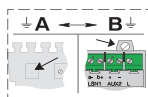


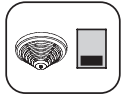
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action



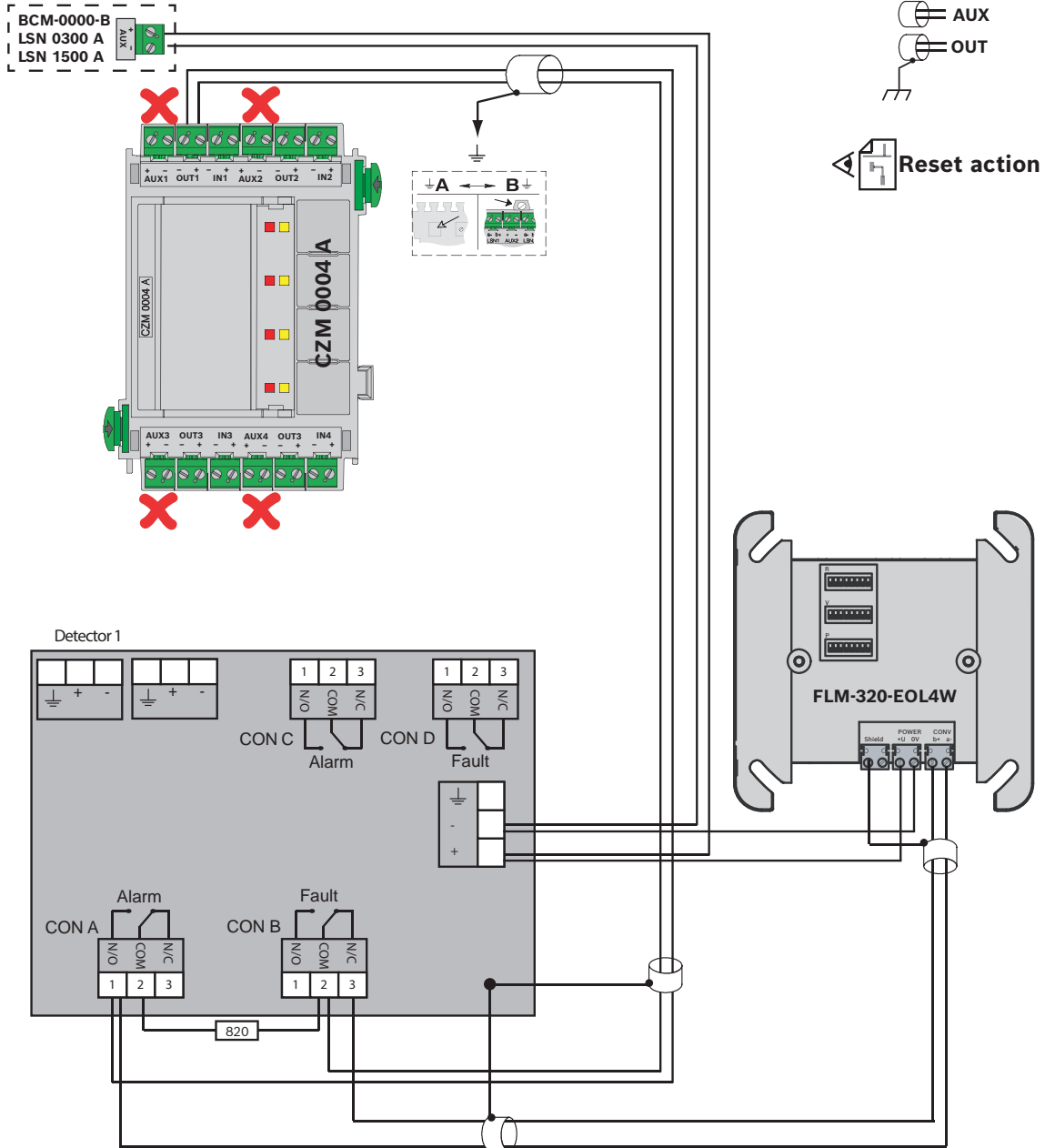


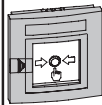
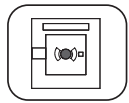
FIRERAY5000

1 x

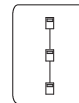


ELS

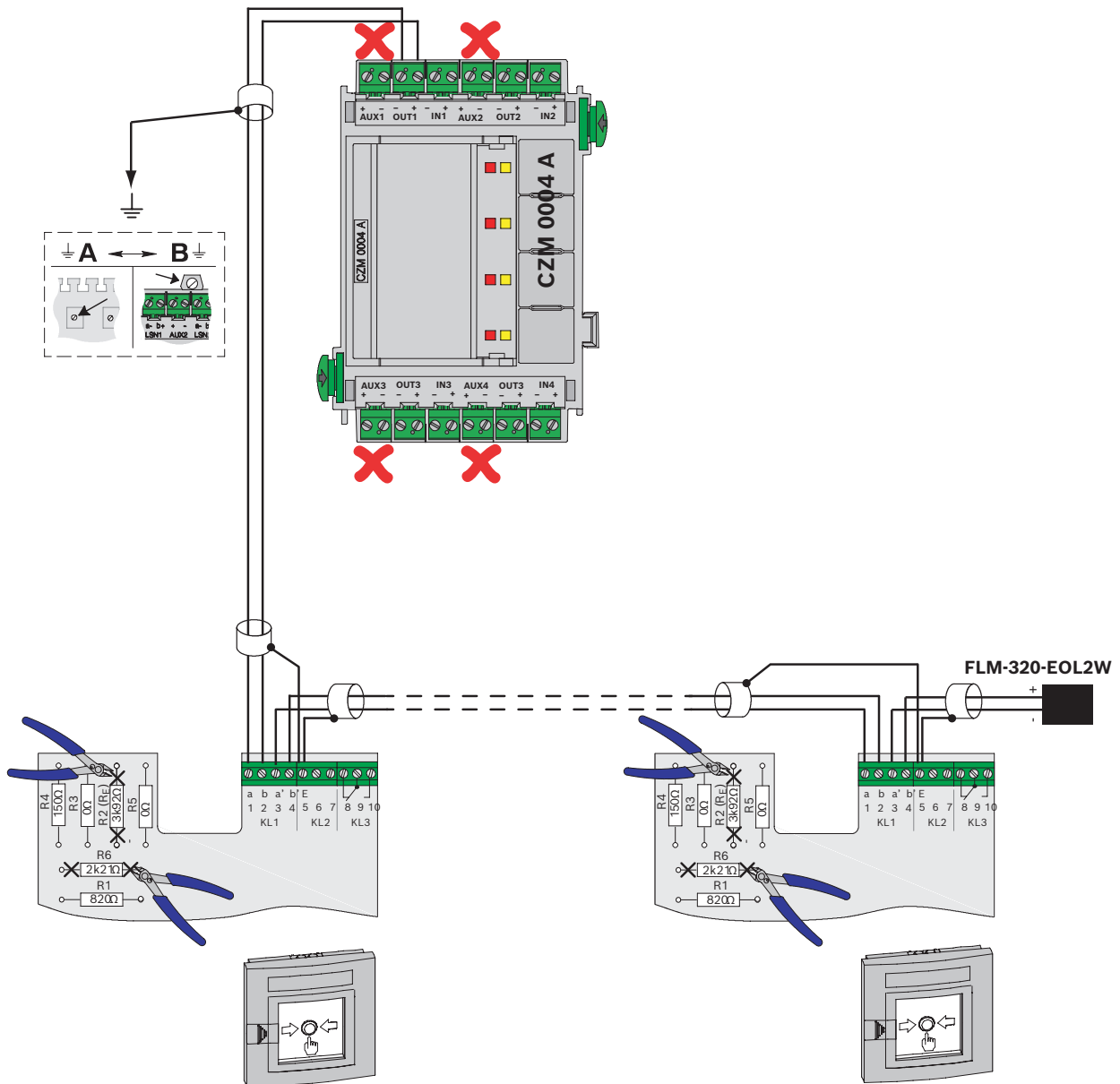


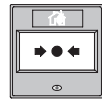
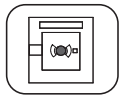


FMC-120-DKM-G-R
 FMC-120-DKM-H-R
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B
 FMC-120-DKM-G-Y



ELS

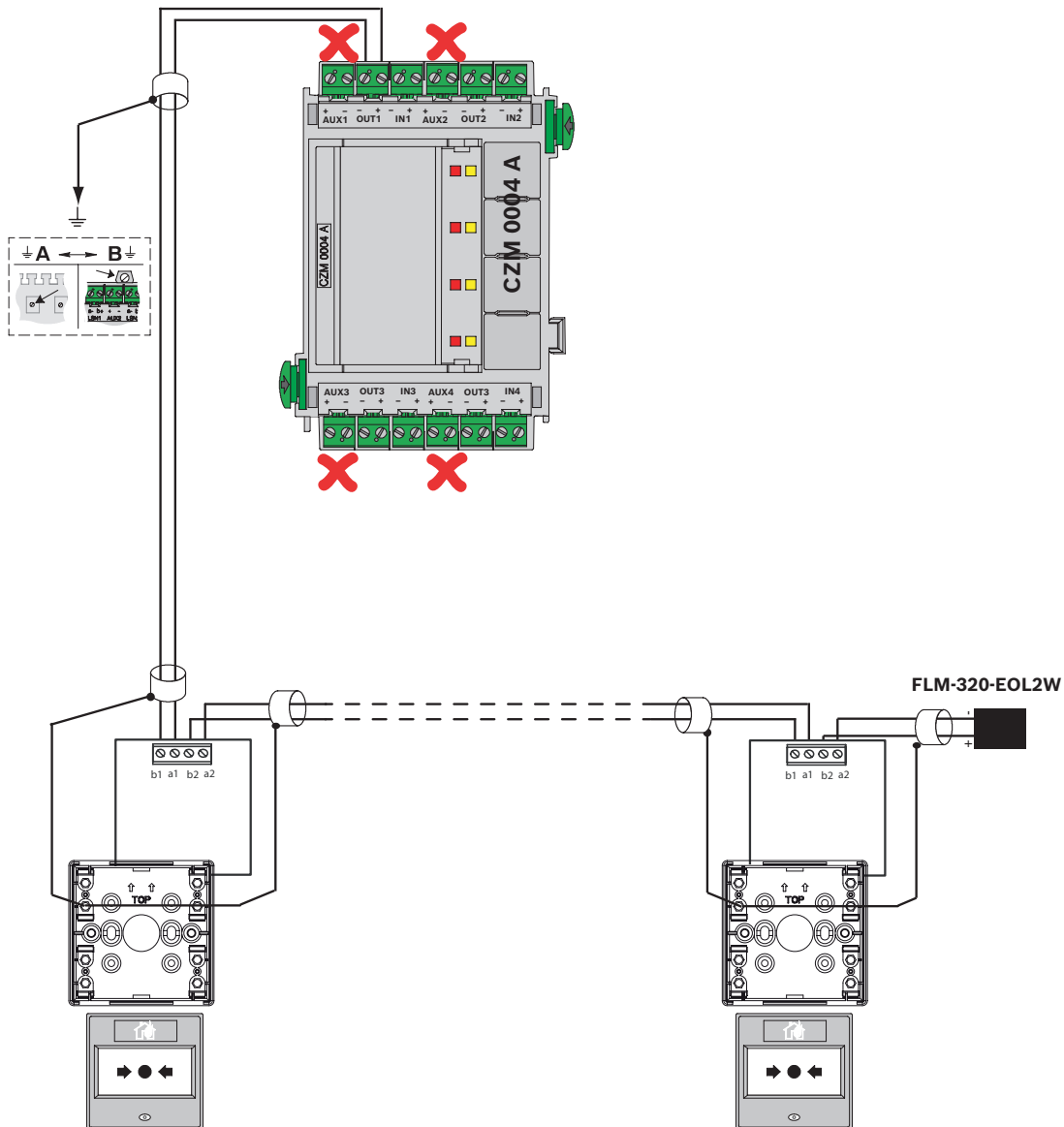




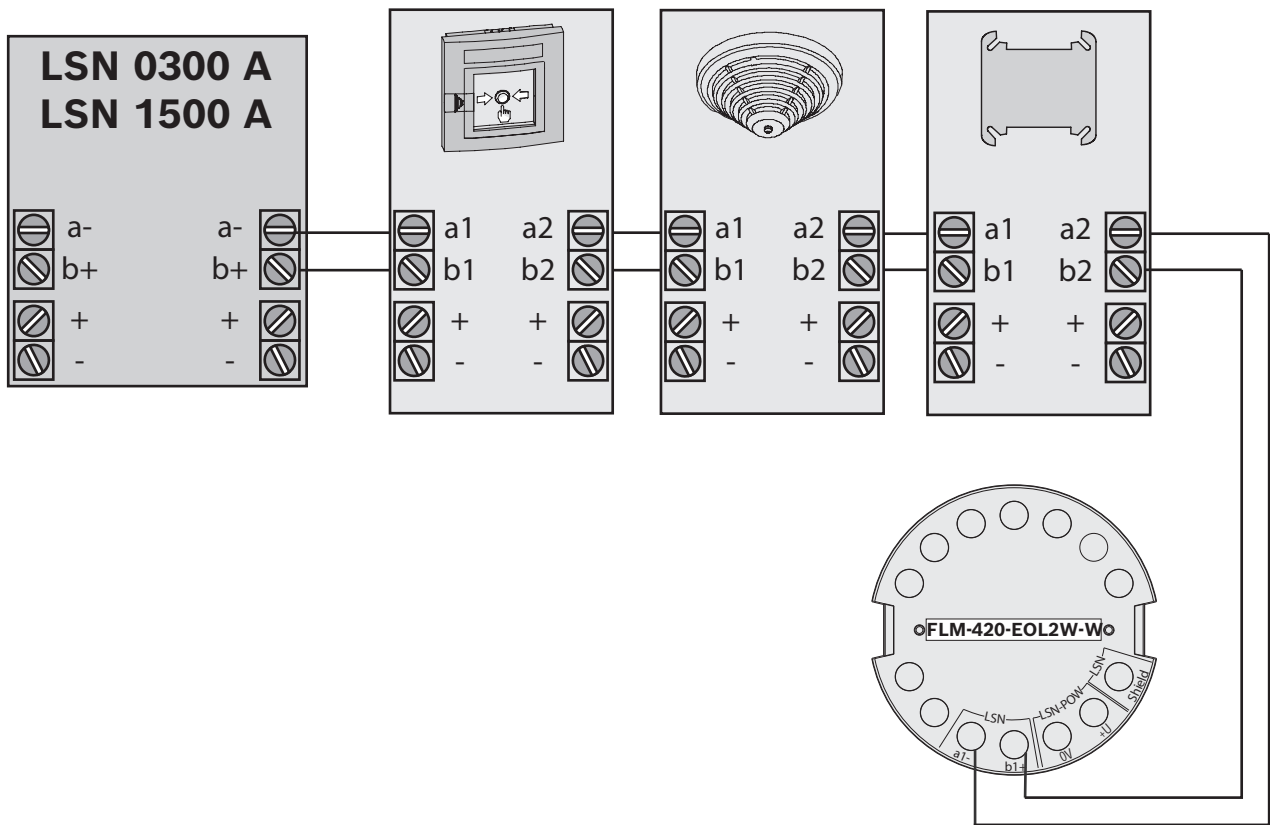
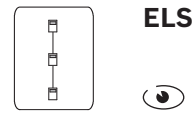
FMC-300RW-GSGBU
 FMC-300RW-GSRBU
 FMC-300RW-GSGRD
 FMC-300RW-GSRRD
 FMC-300RW-GSGYE
 FMC-300RW-GSRYE

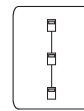


ELS

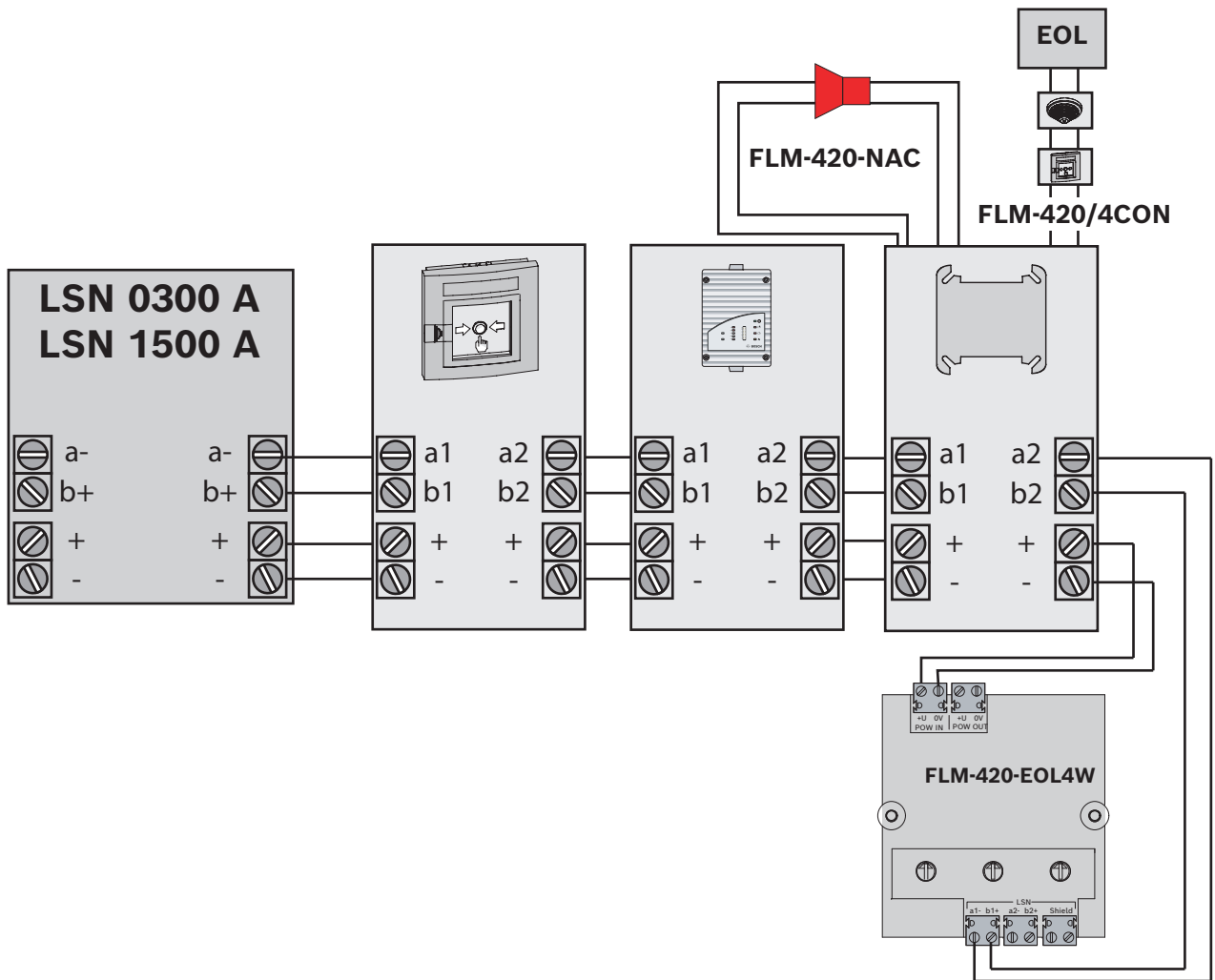


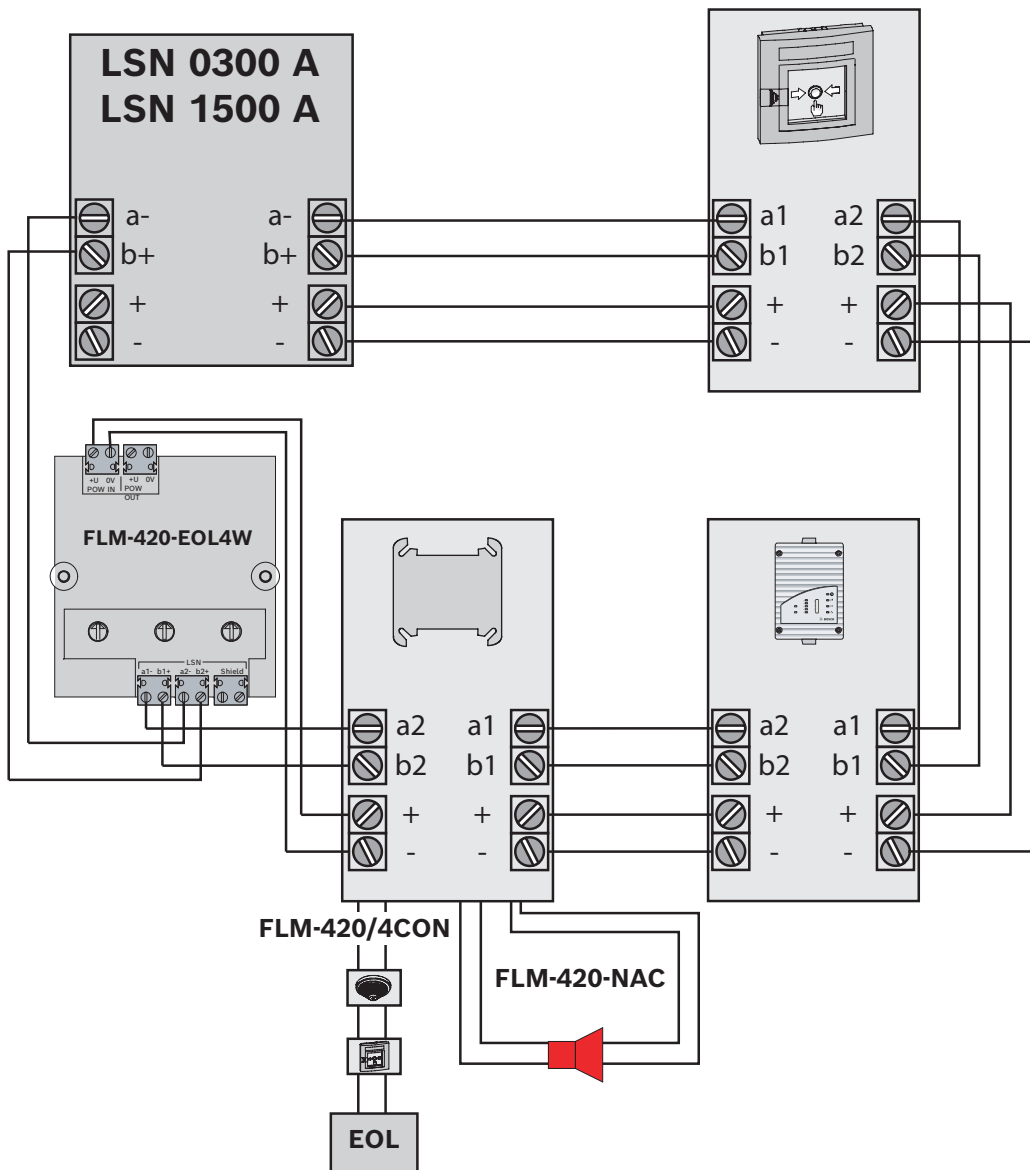
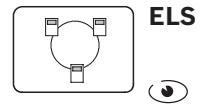
2.6.2 LSN 0300 A





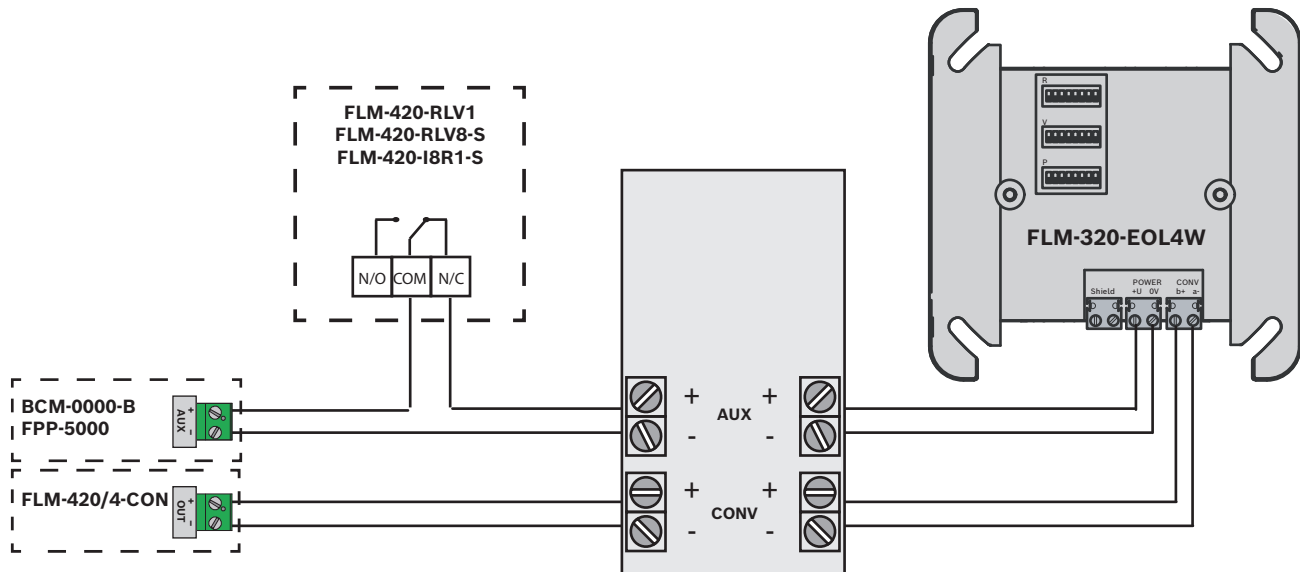
ELS

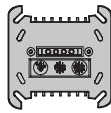
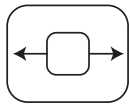




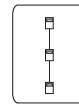
Reset action

ELS

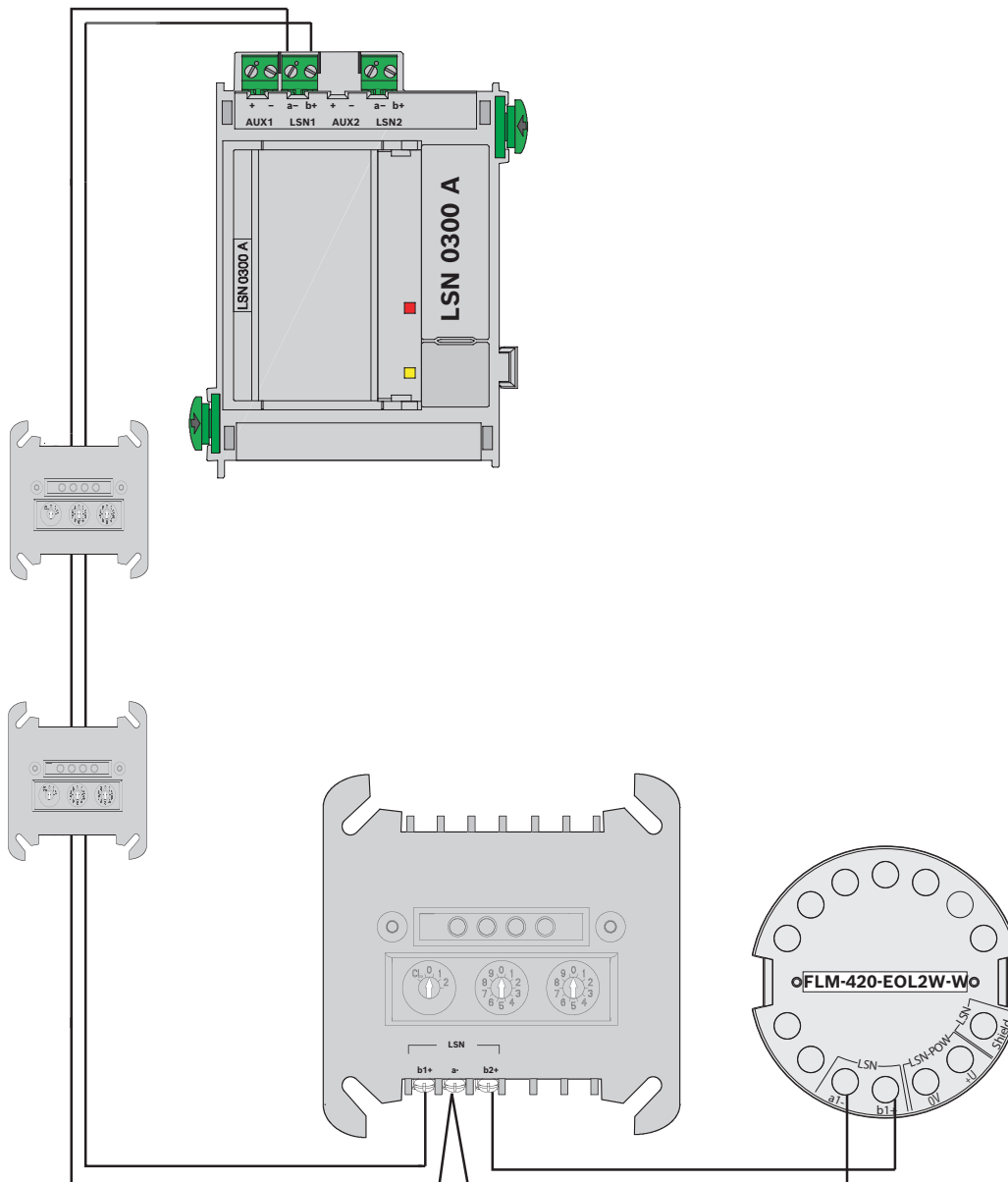


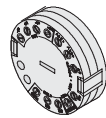
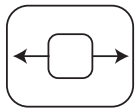


FLM-420-I2-D
 FLM-420-O111-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

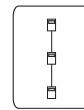


ELS

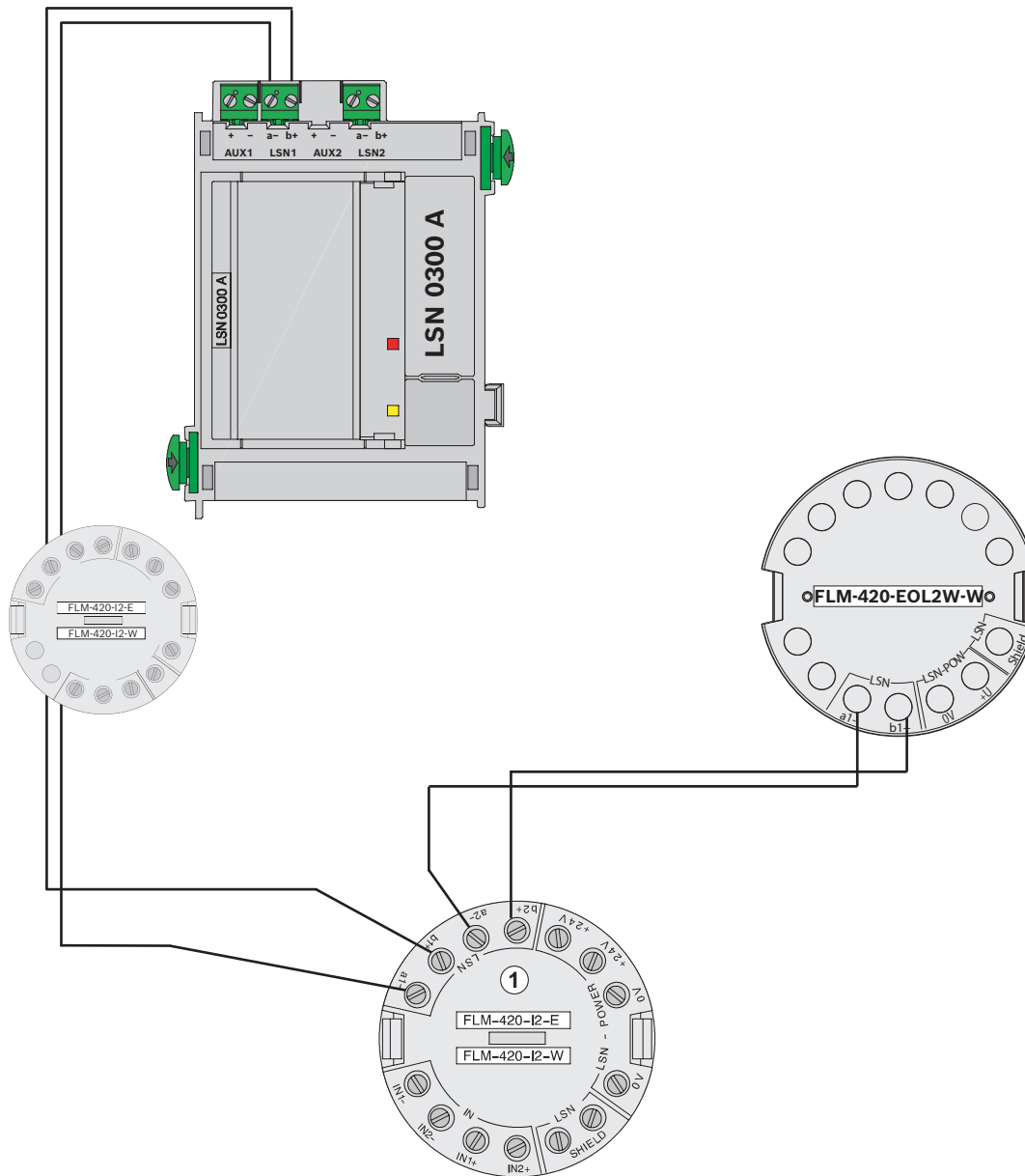


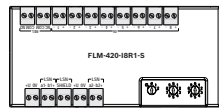
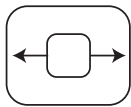


FLM-420-12-E/W

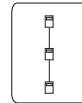


ELS

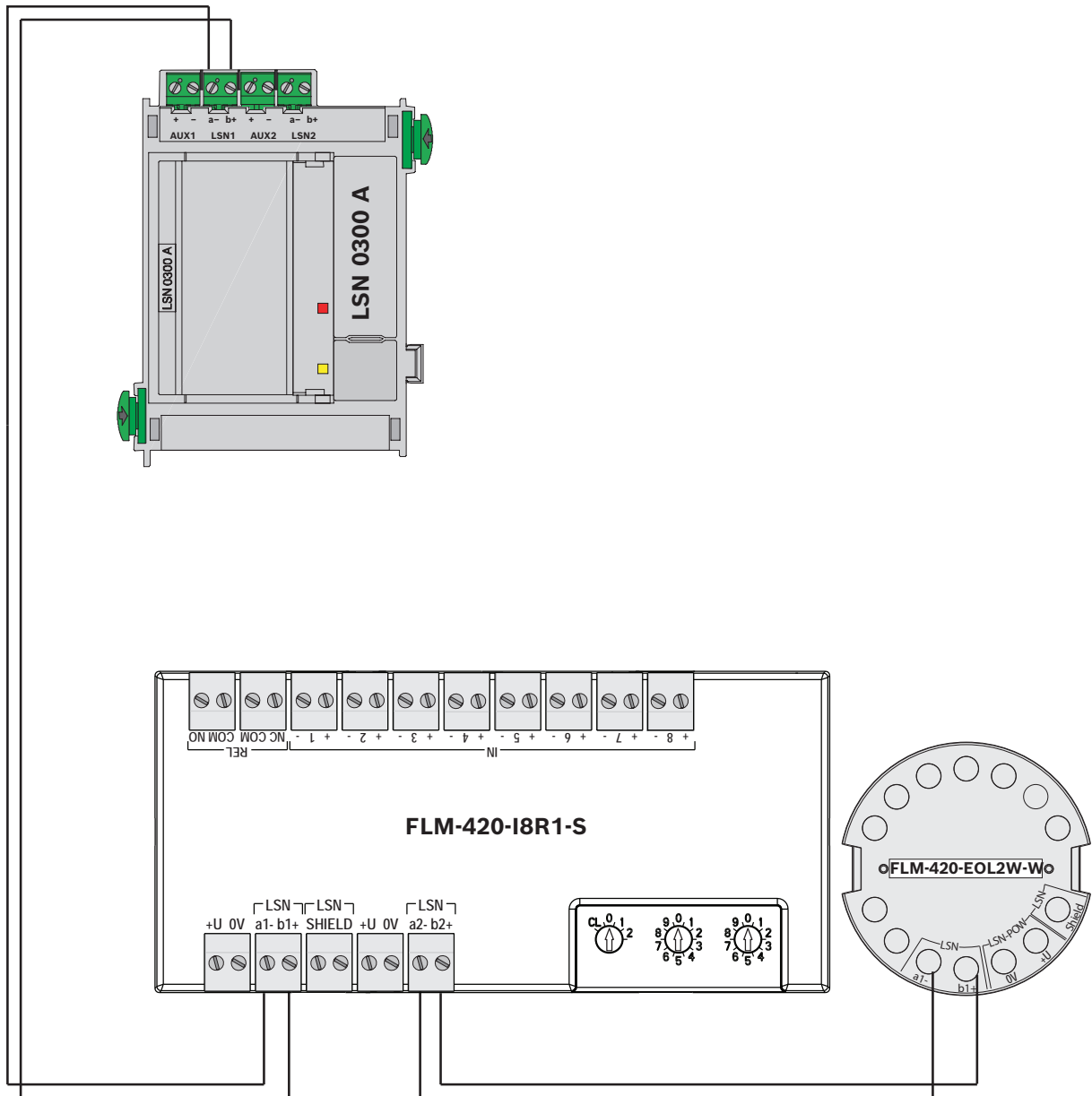


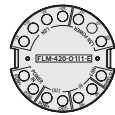
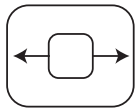


FLM-420-18R1-S

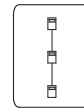


ELS

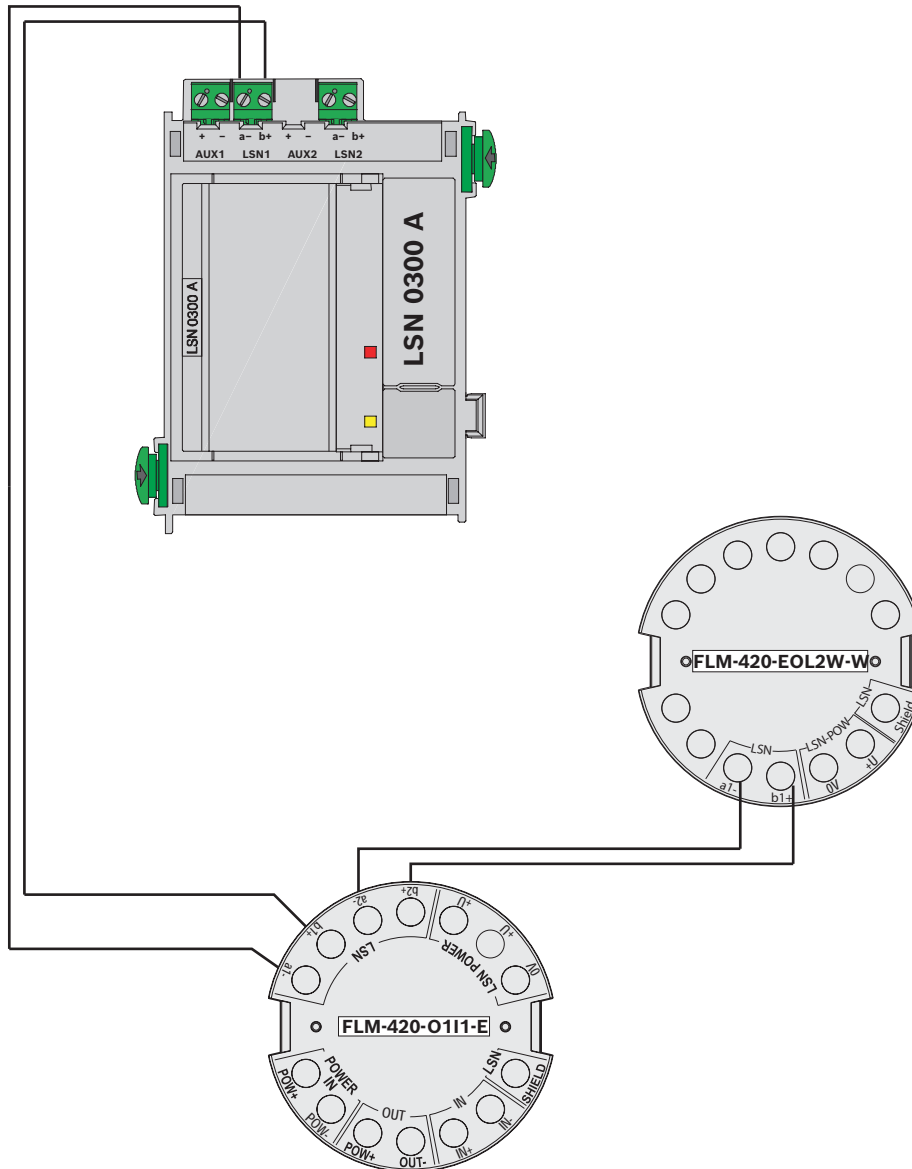


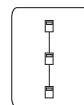
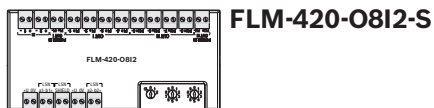
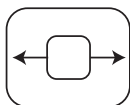


FLM-420-O1I1-E

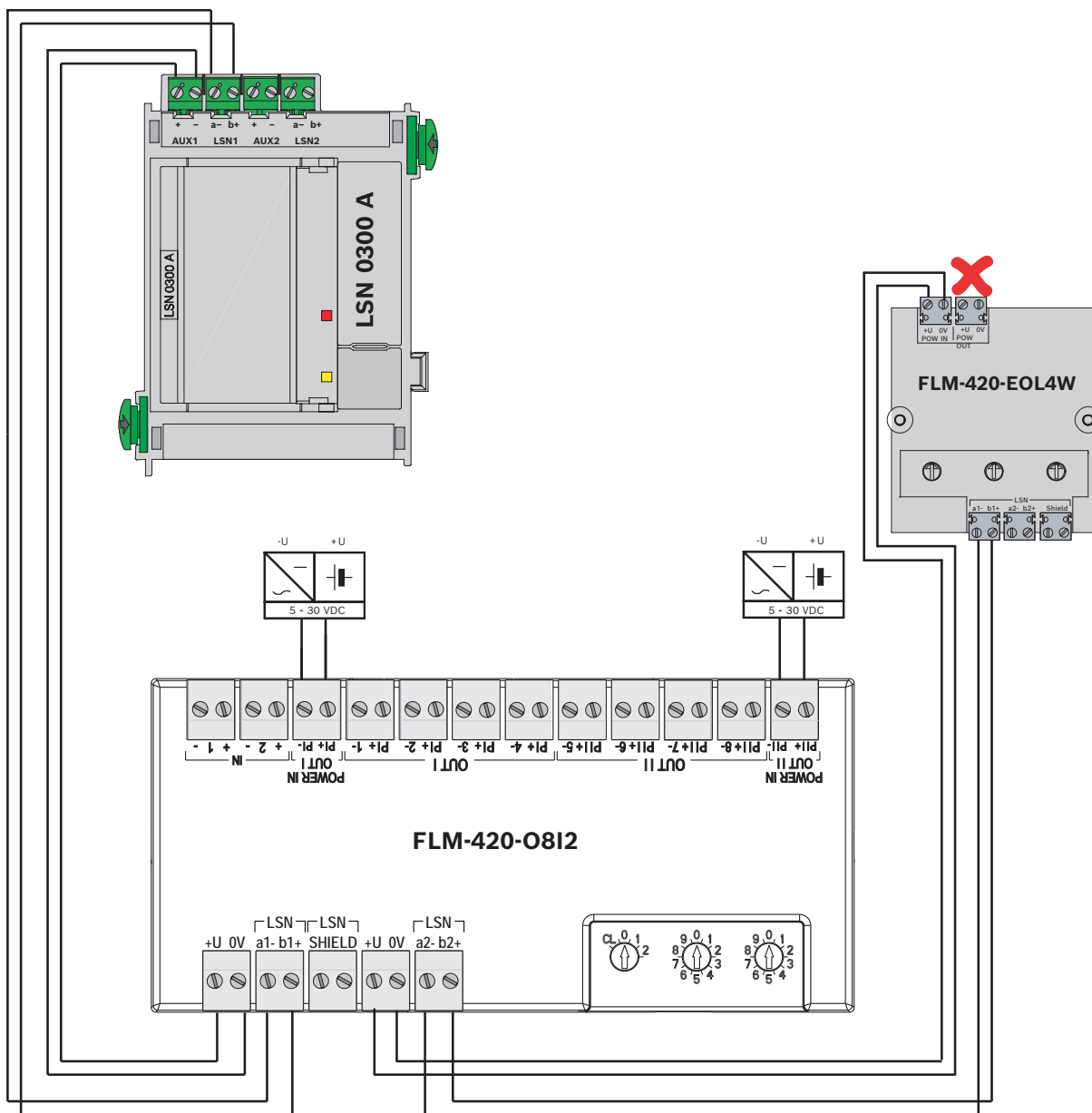


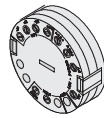
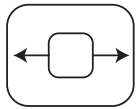
ELS



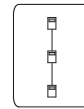


ELS

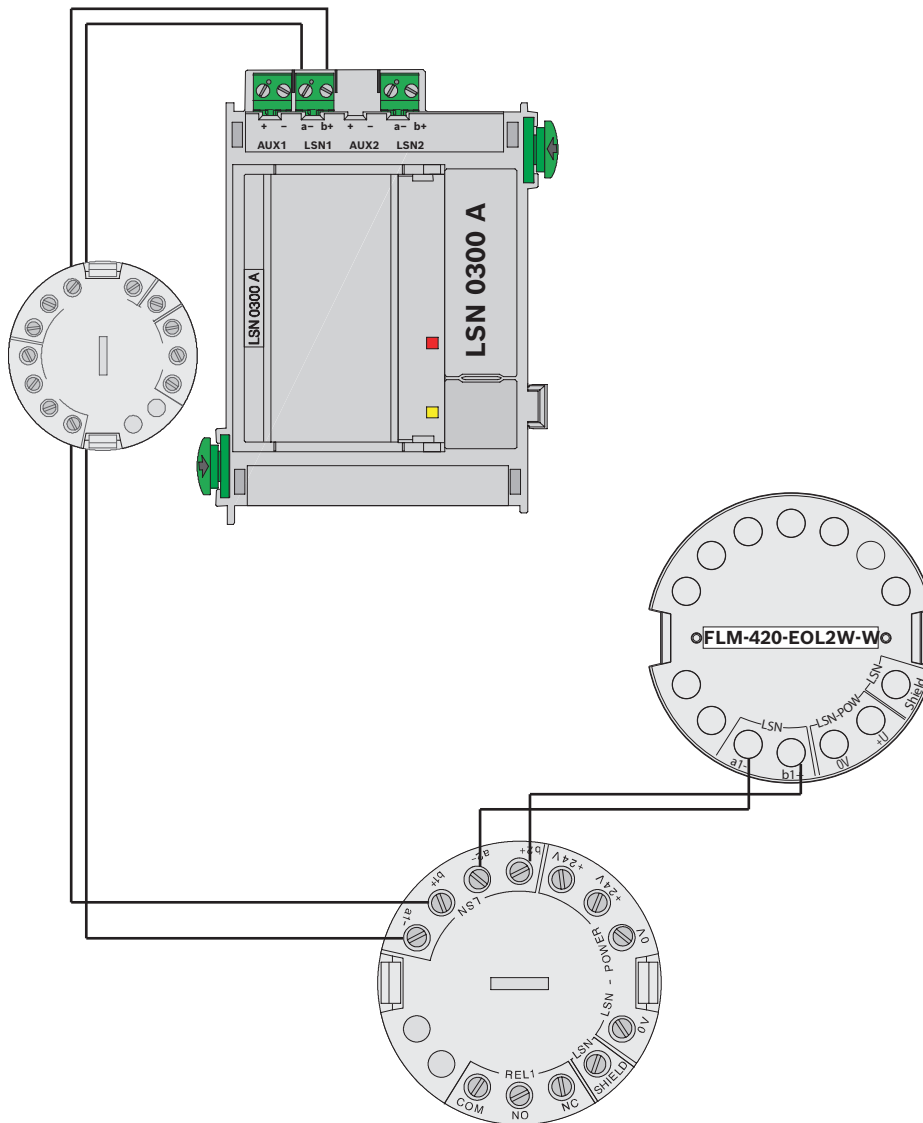


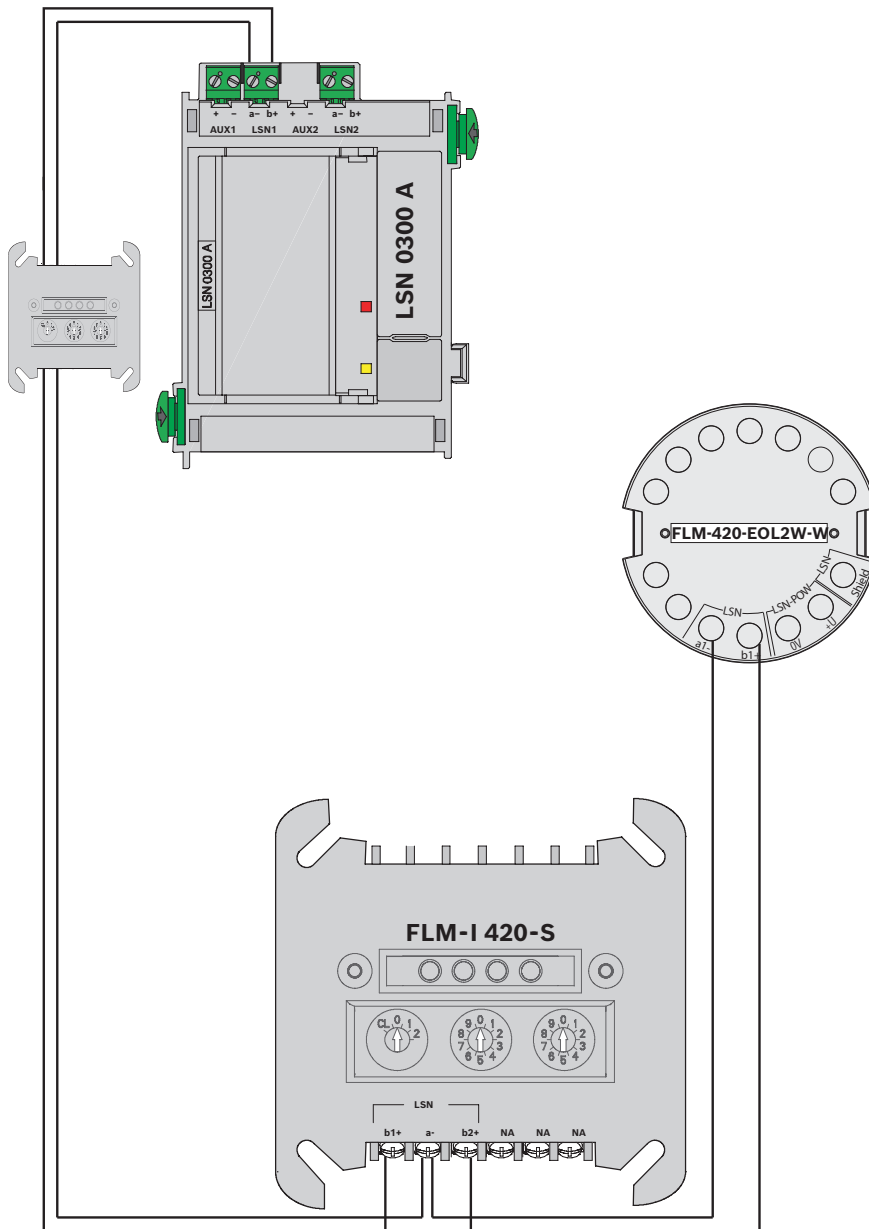
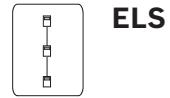
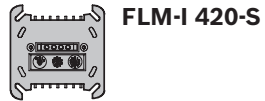
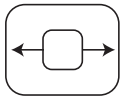


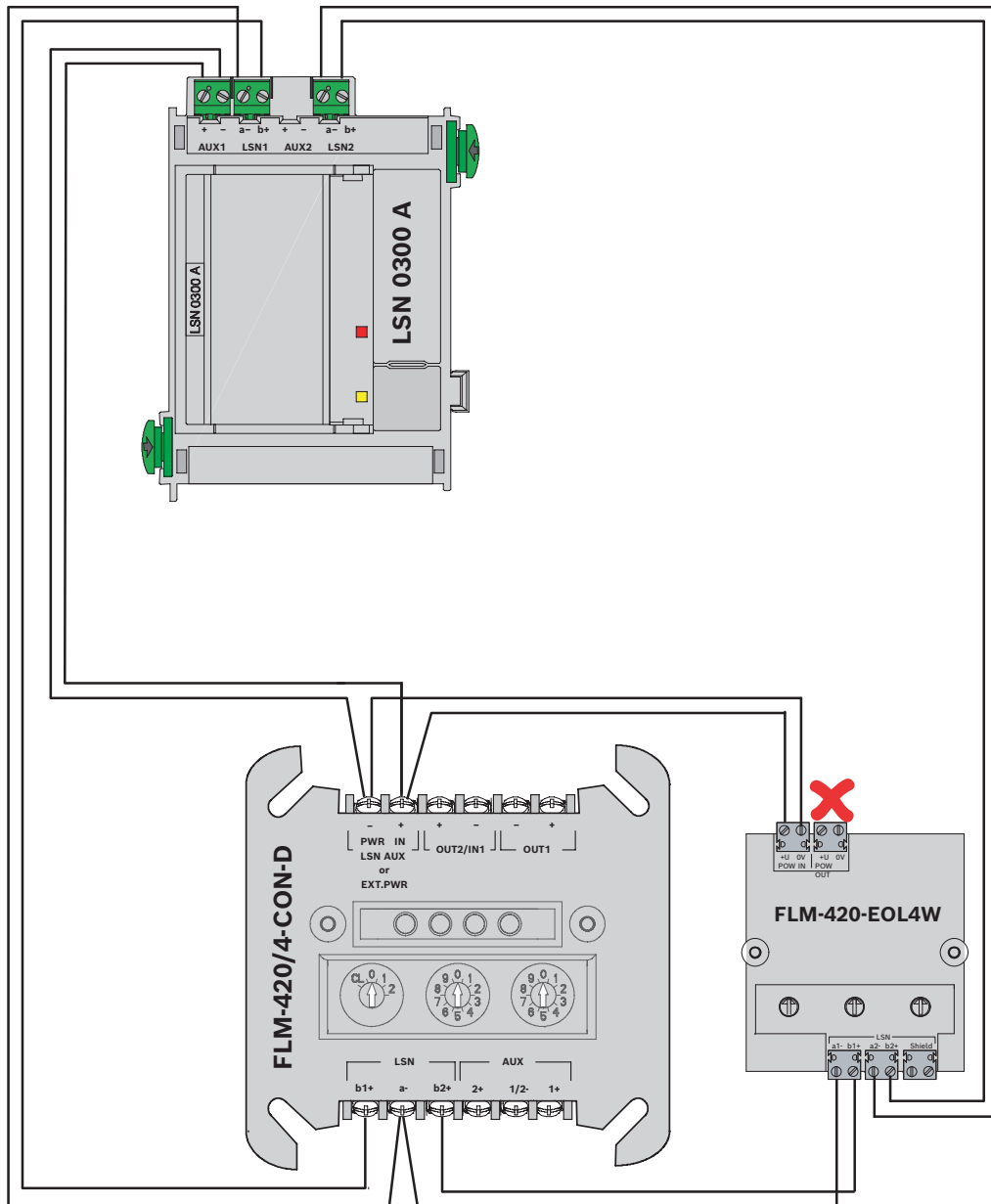
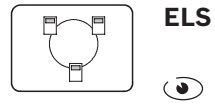
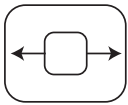
FLM-420-I2-E/-W
FLM-420-RLV1-E

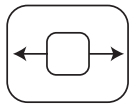


ELS

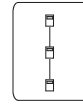




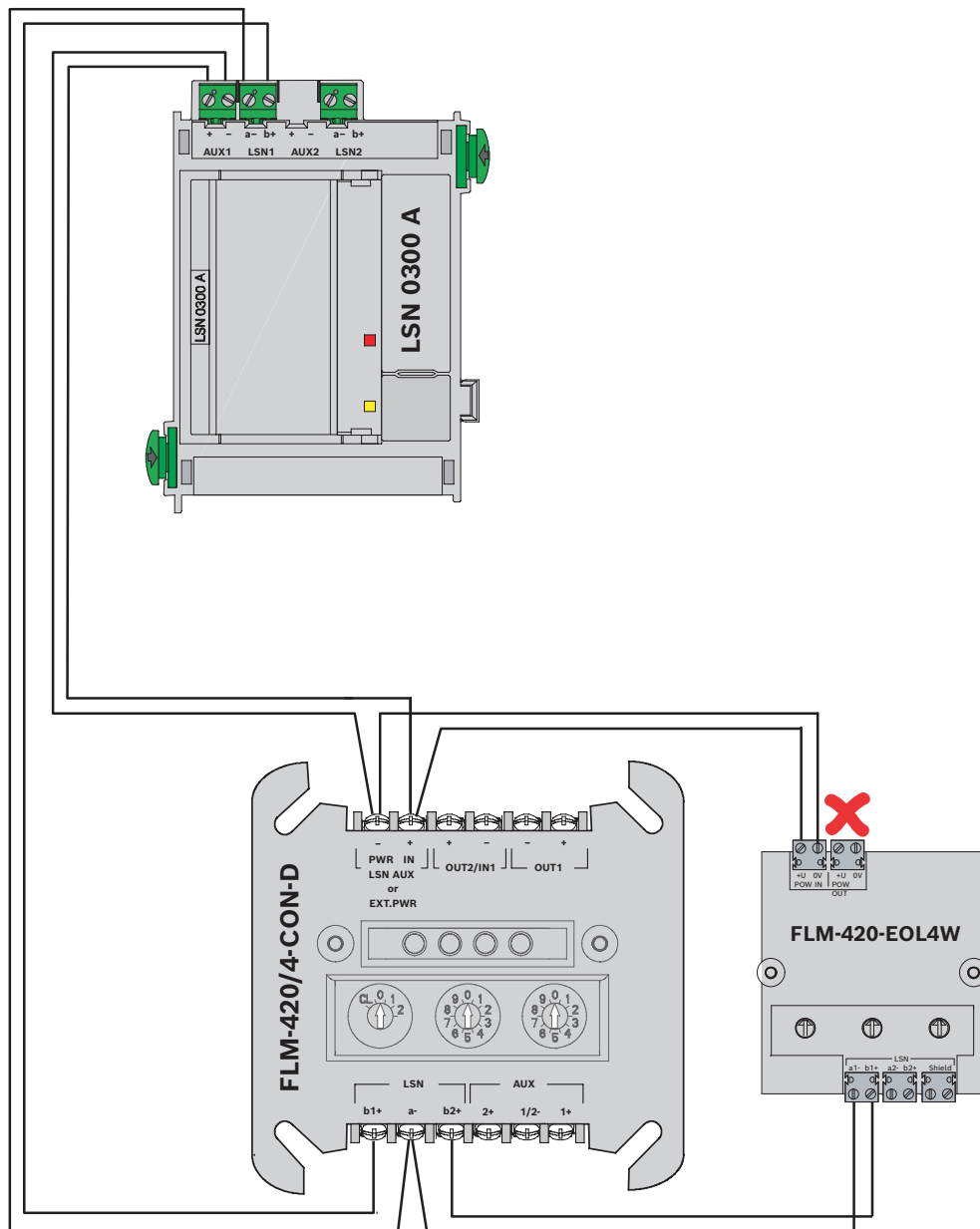


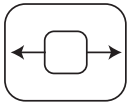


**FLM-420/
4-CON-D**

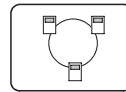


ELS

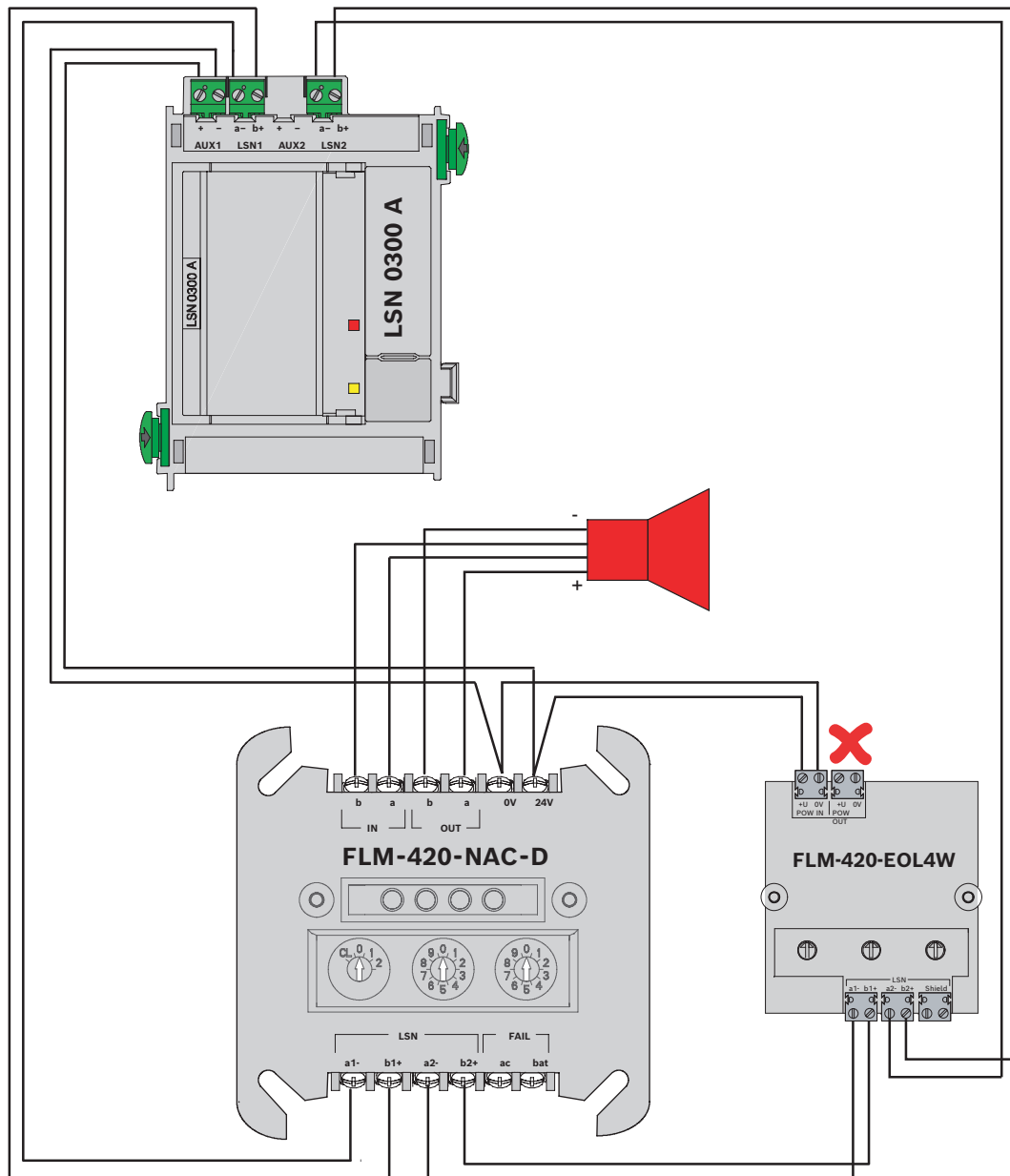


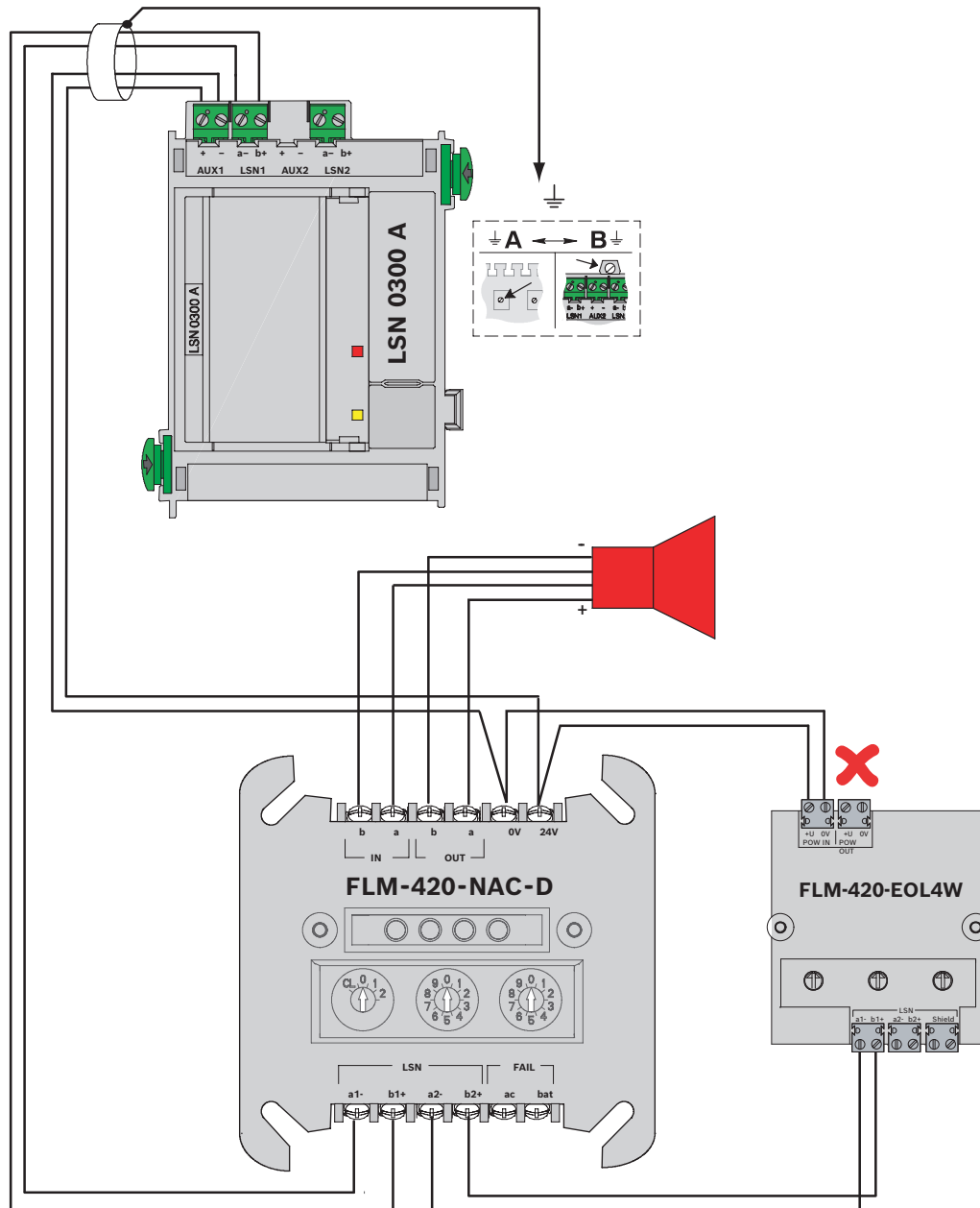
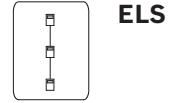
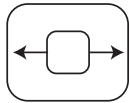


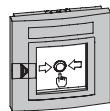
FLM-420-NAC-D/S



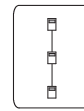
ELS
EN 54-2



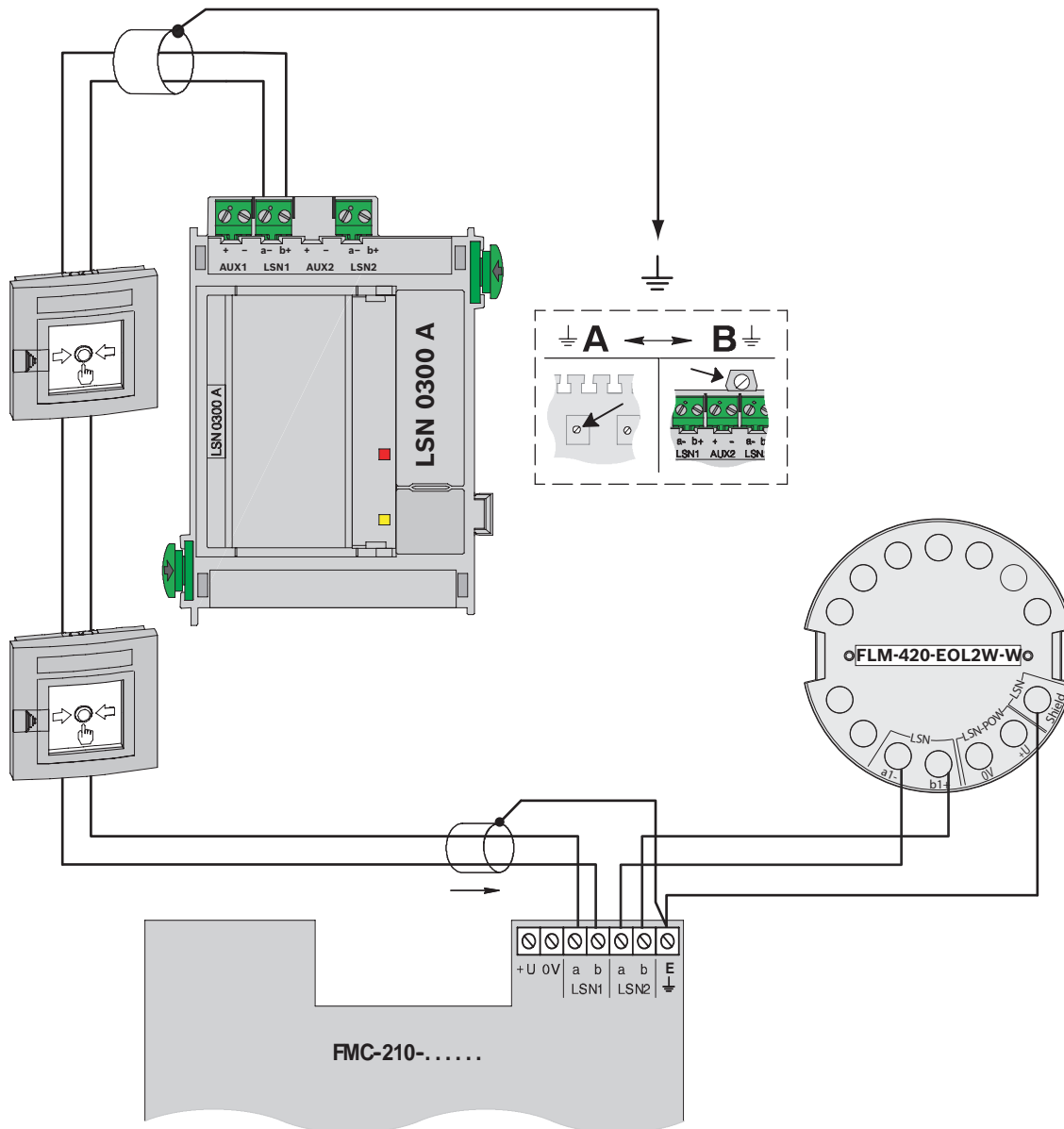


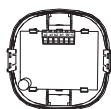


FMC-210...

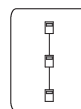


ELS

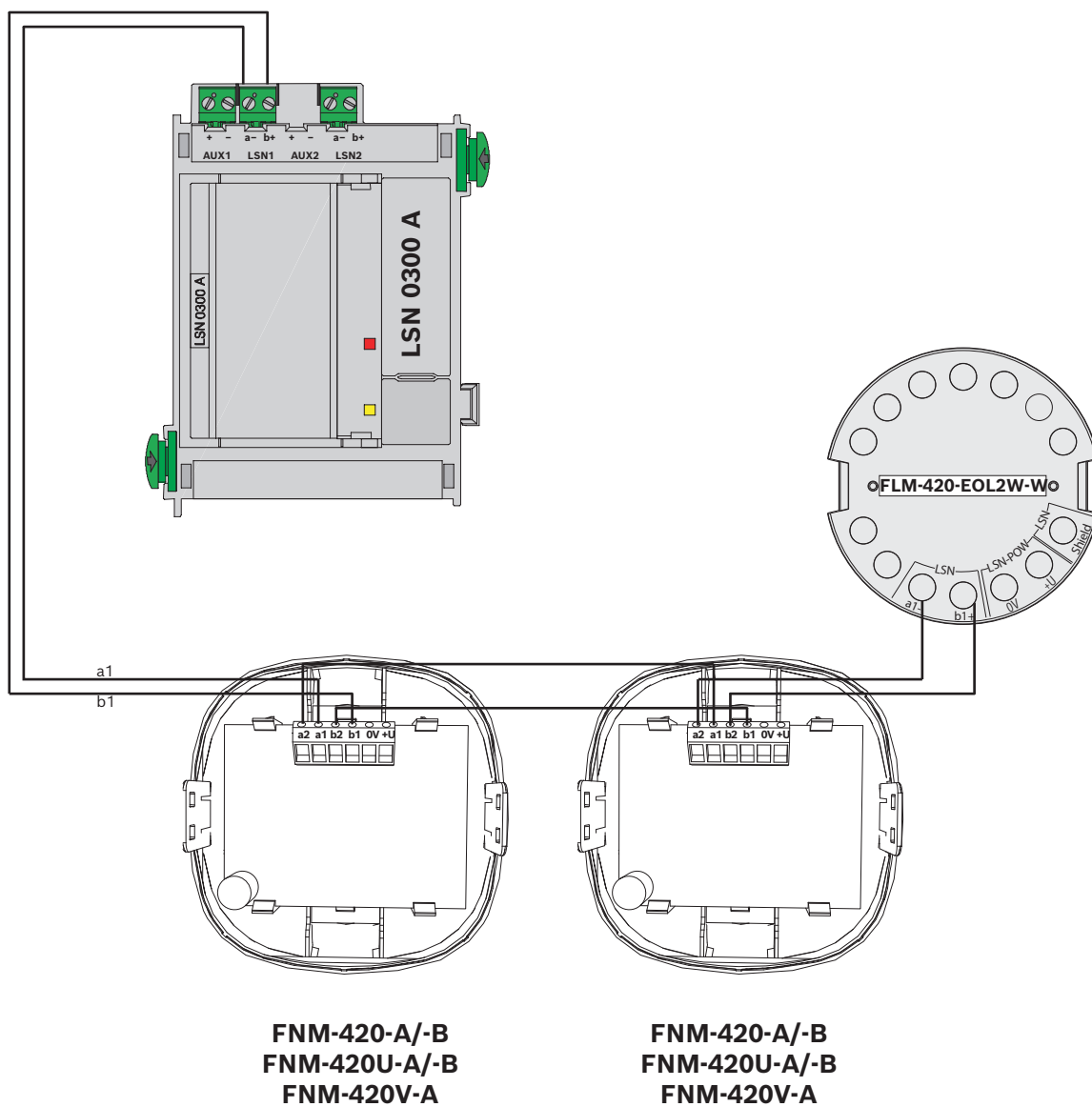




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS

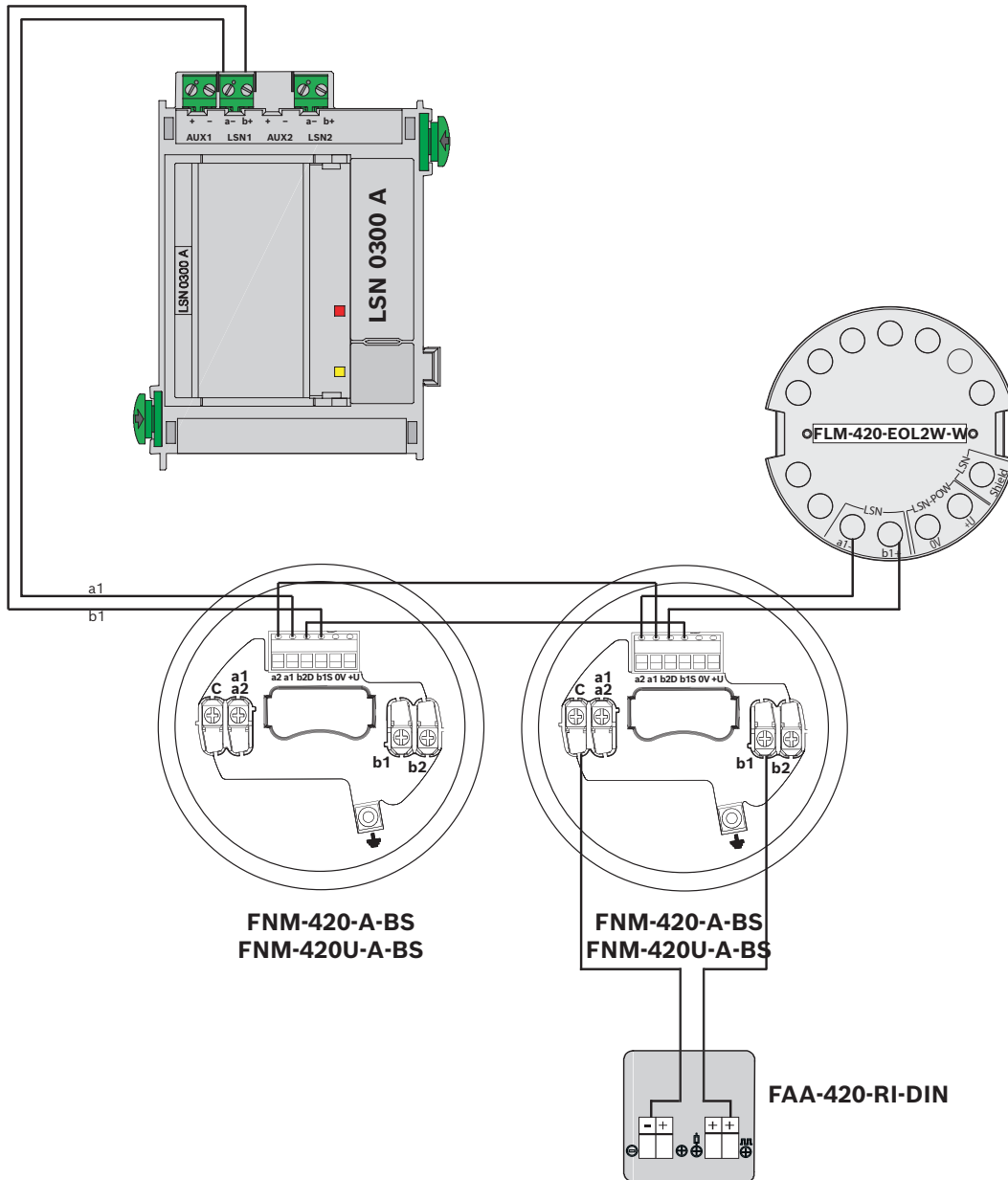




FNM-420-A-BS
FNM-420U-A-BS



ELC

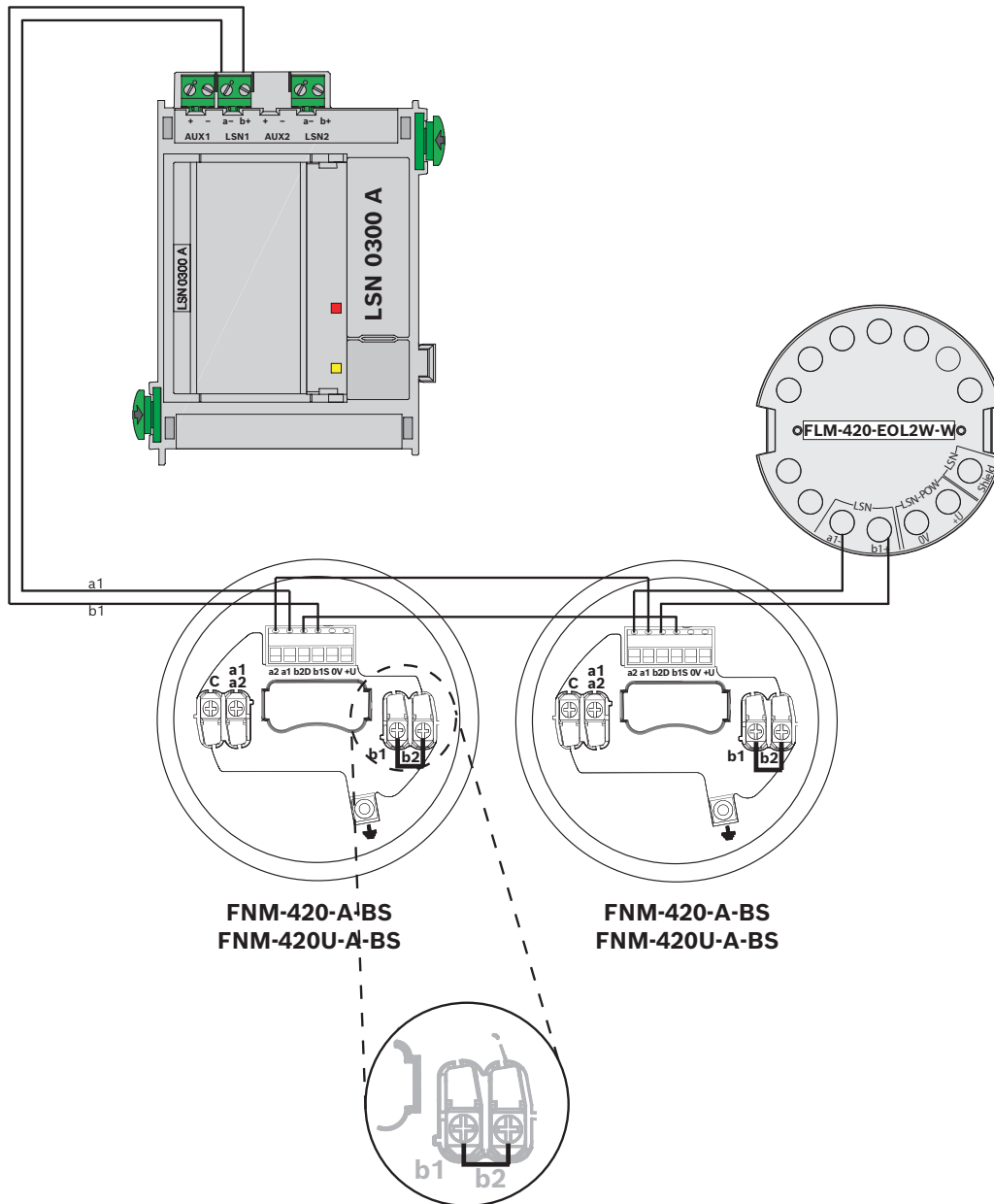


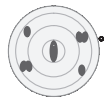


FNM-420-A-BS
FNM-420U-A-BS



ELS

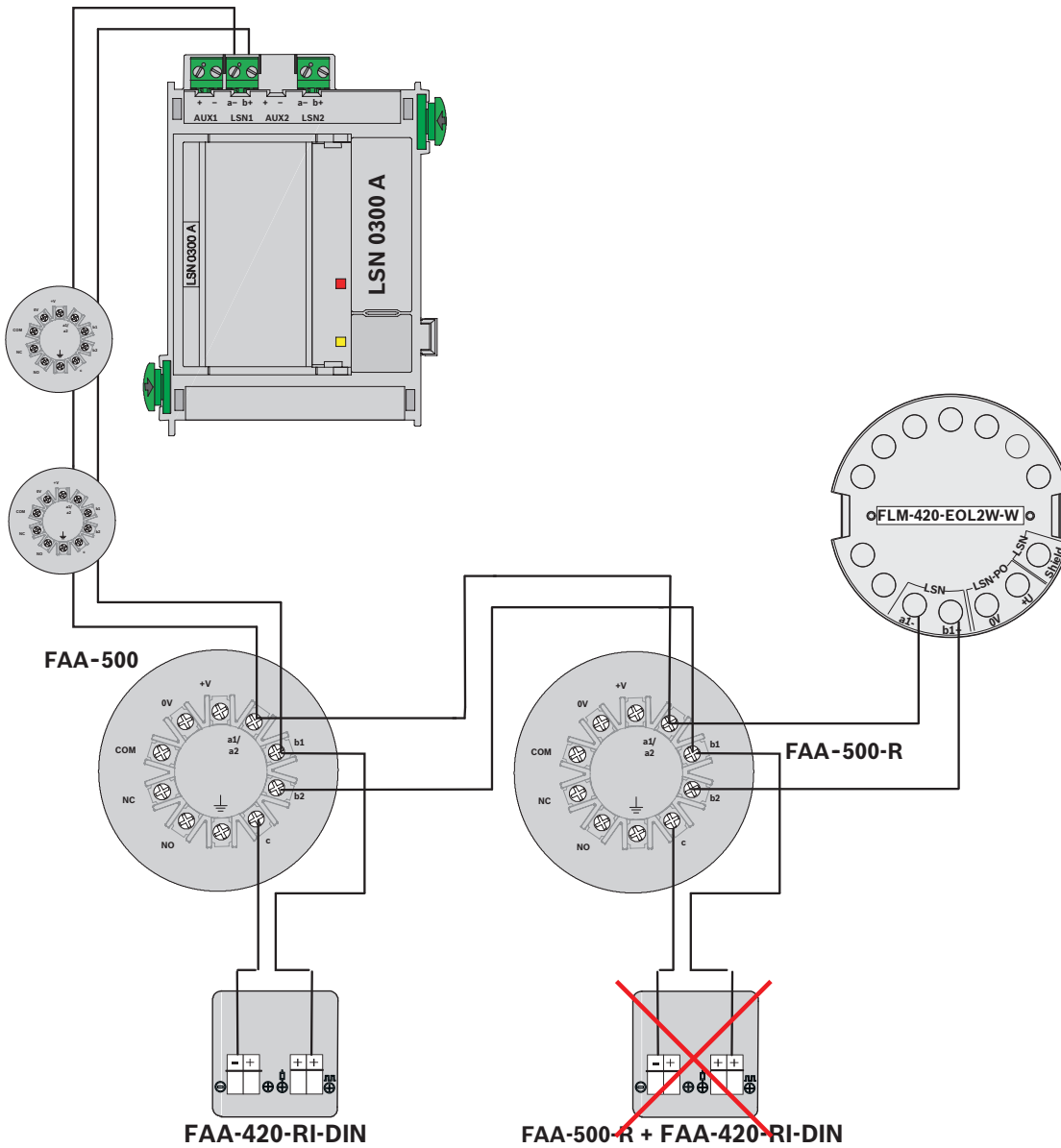


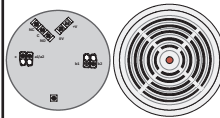


FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

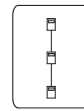


ELS

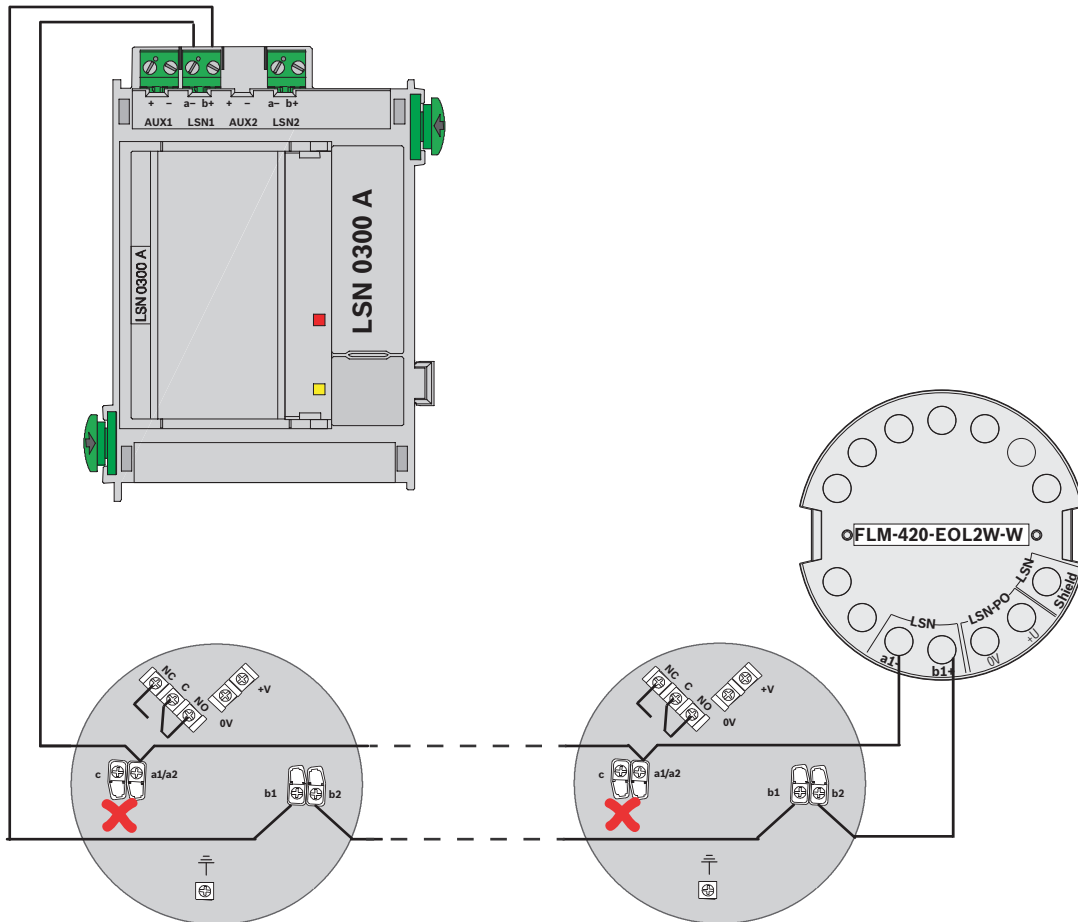


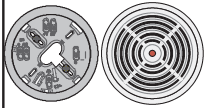


FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R



ELS

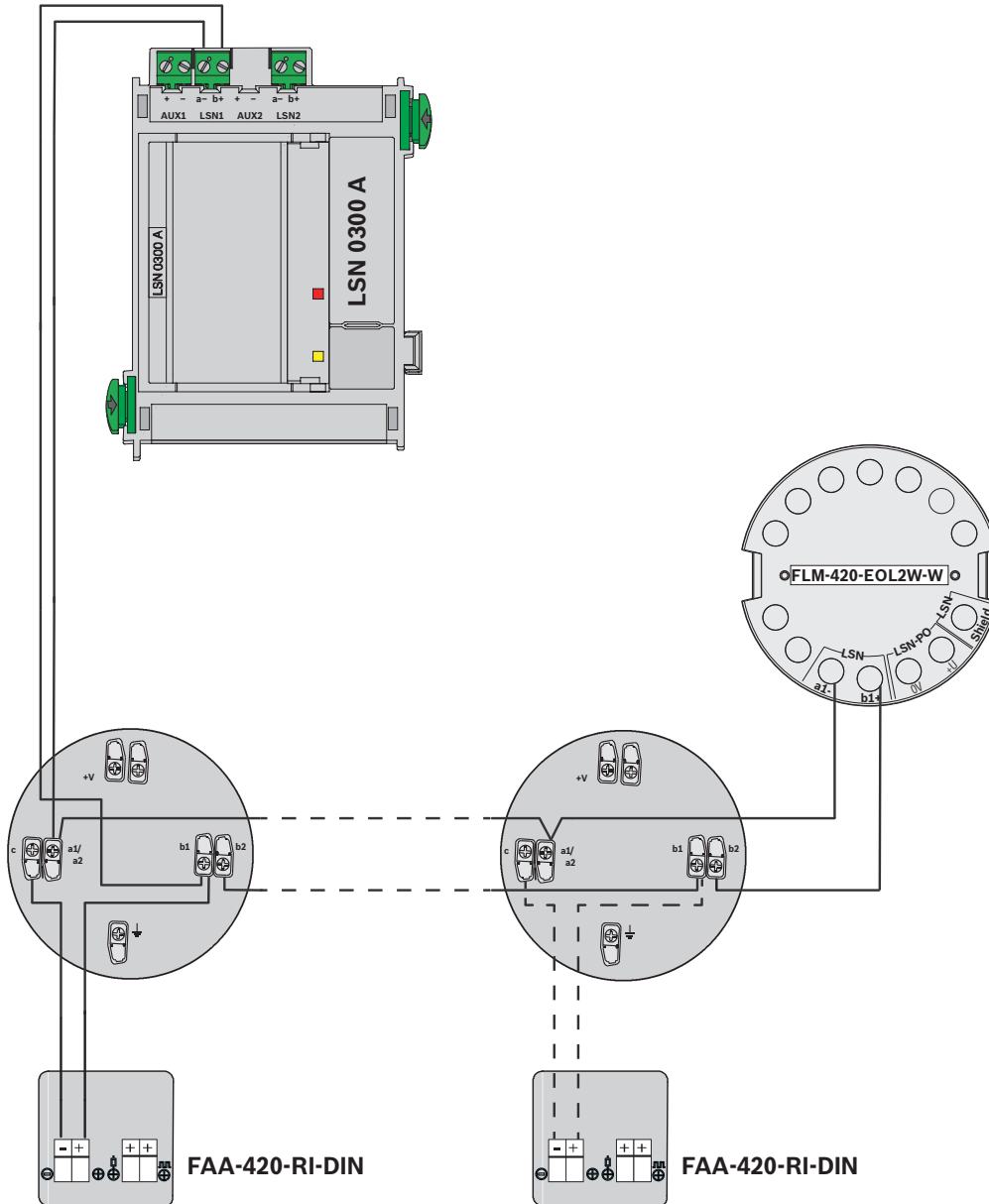


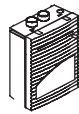


MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R

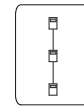


ELS

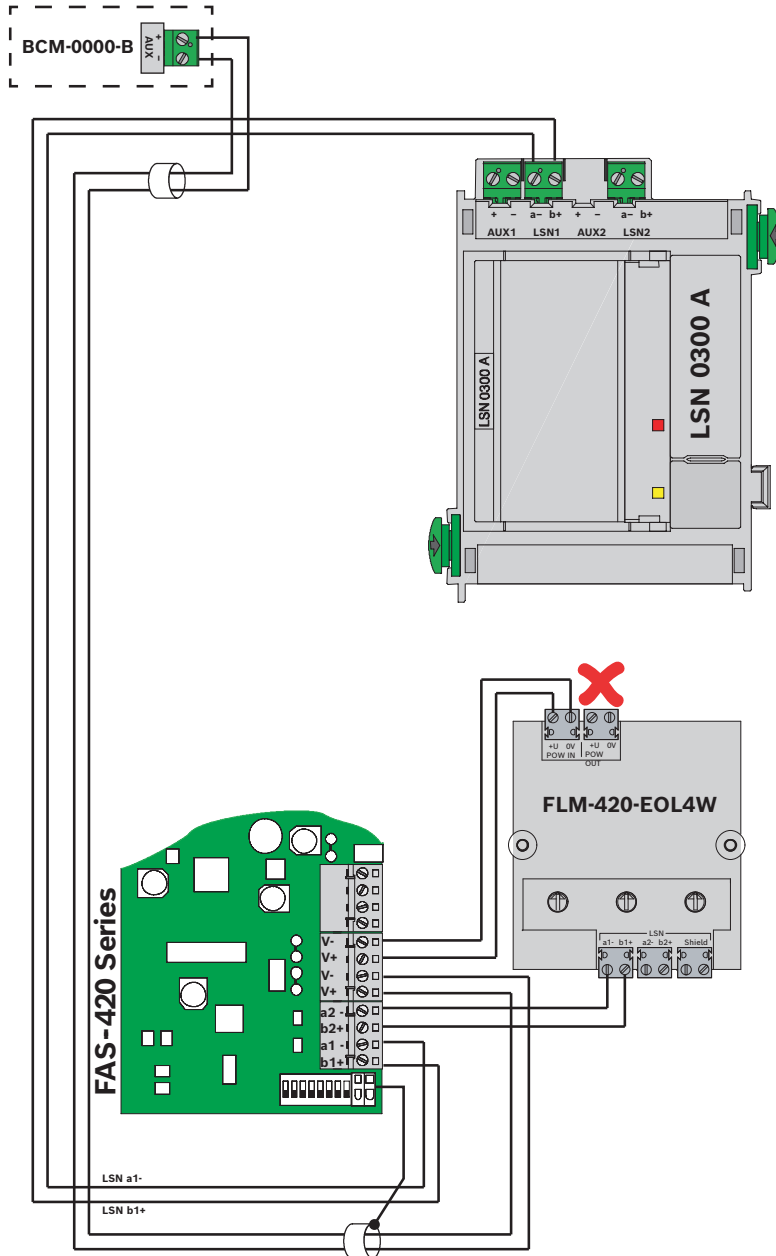


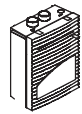


FAS-420 Series

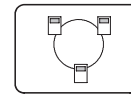


ELS

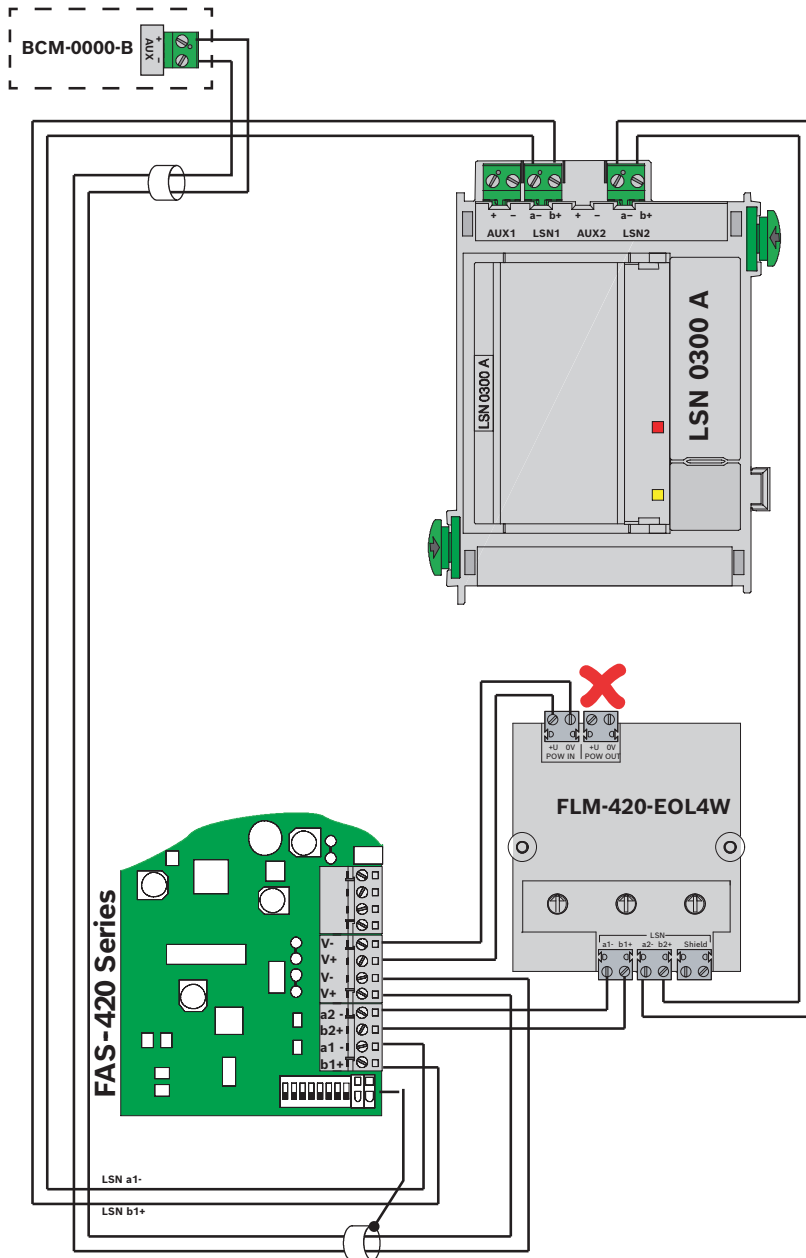


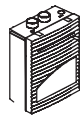


FAS-420 Series

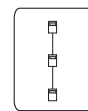


ELS

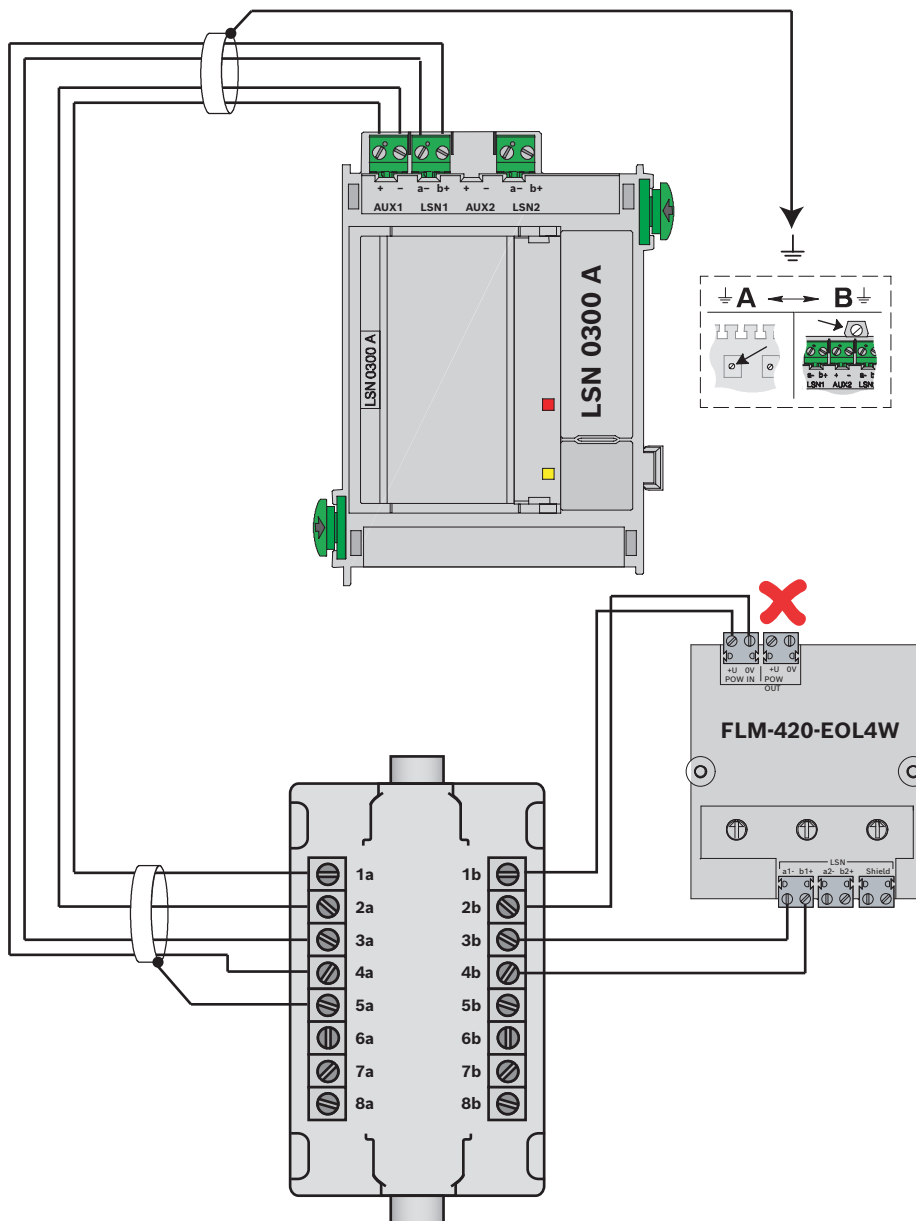


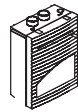


FAS-420-TM Series

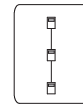


ELS

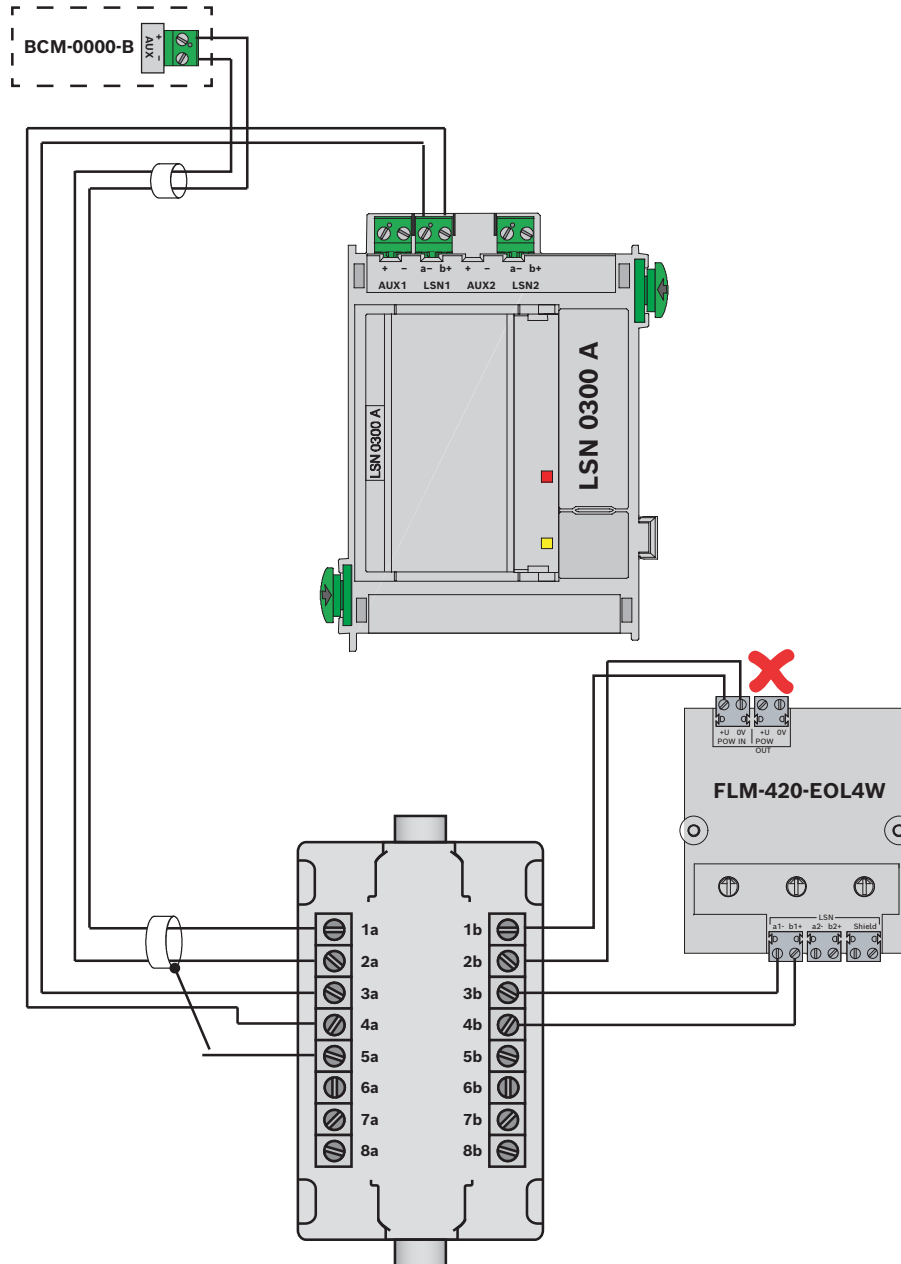


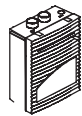


FAS-420-TM Series

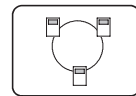


ELS

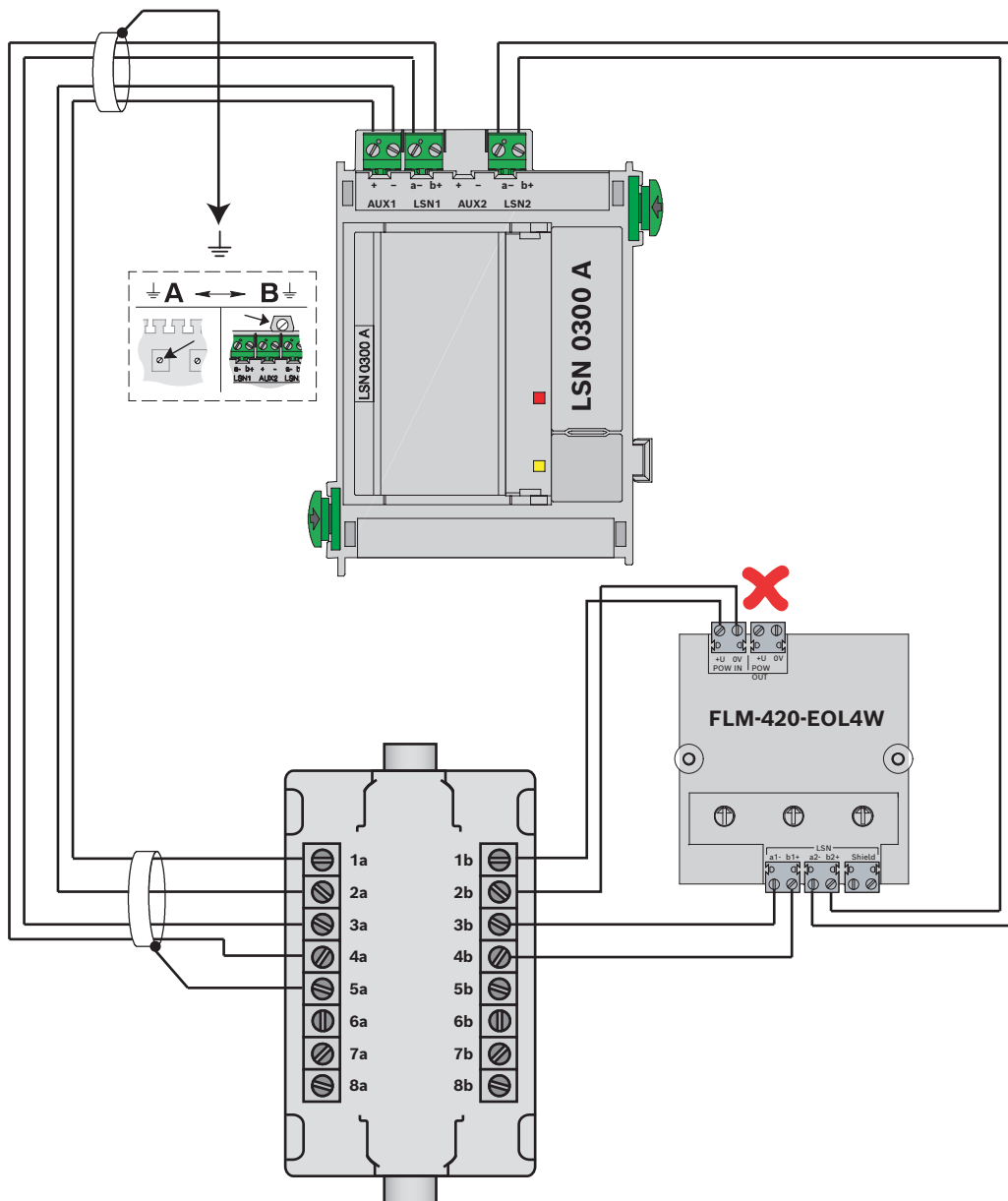


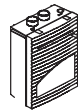


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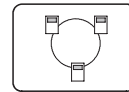


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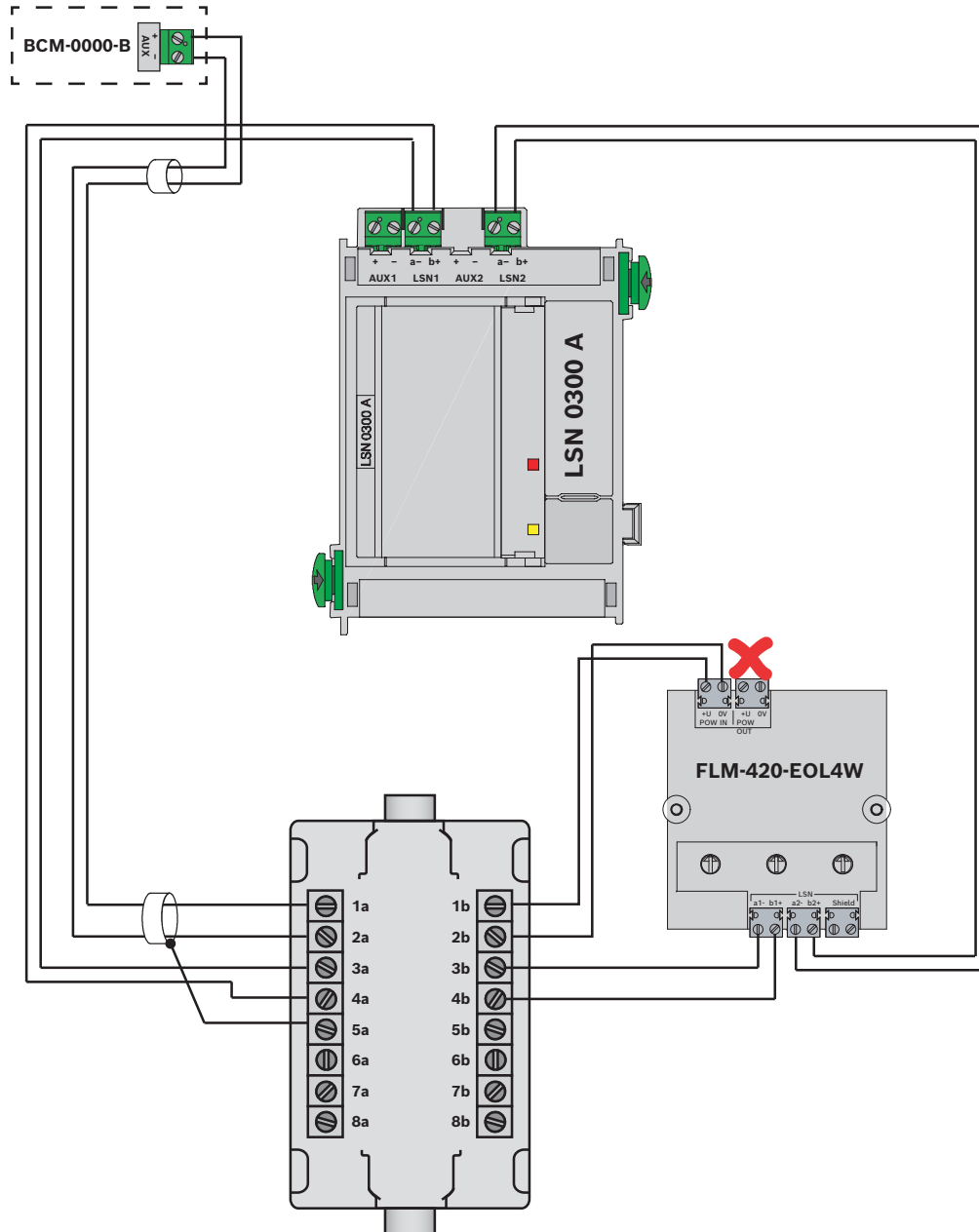




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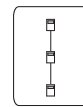


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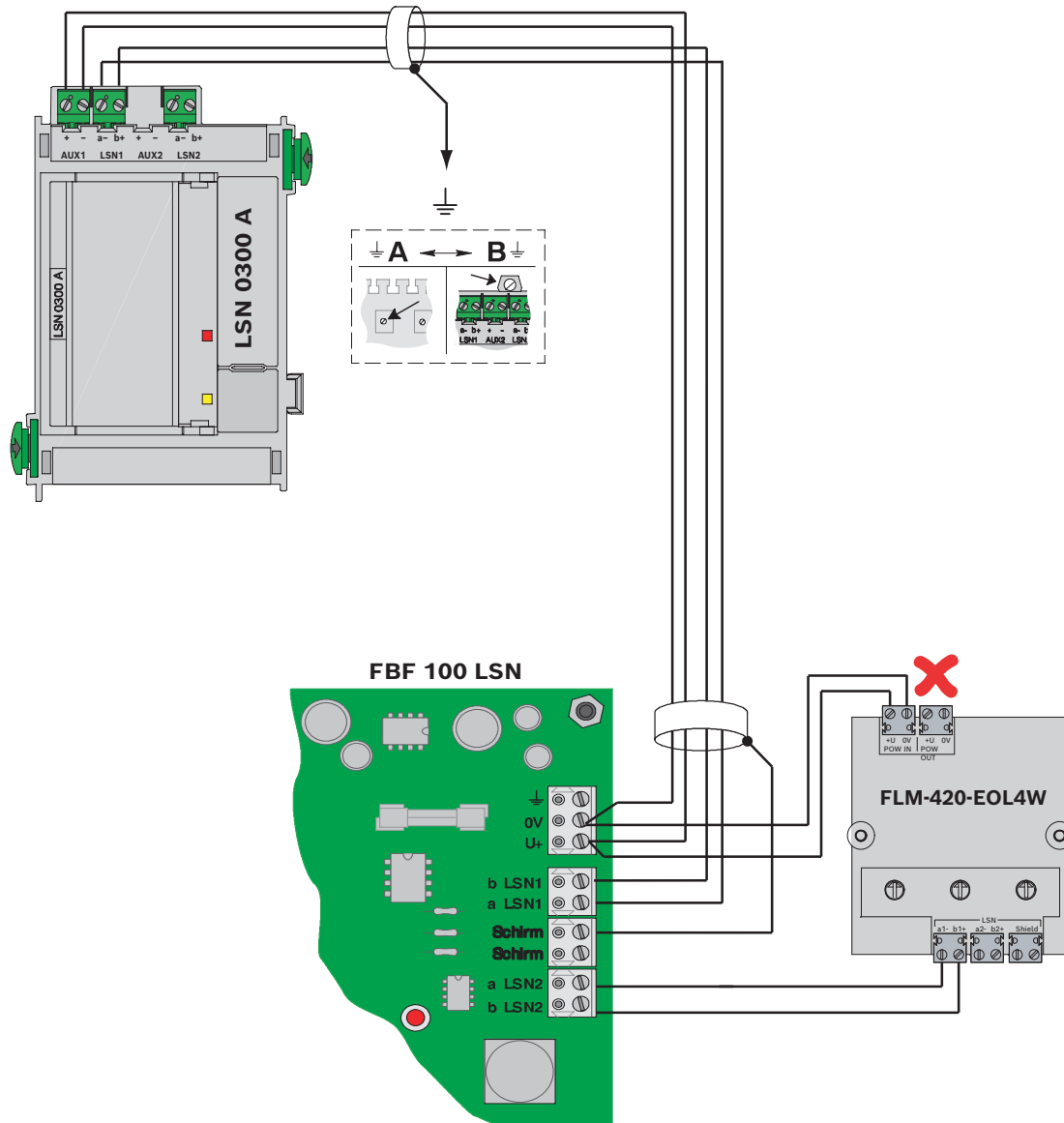


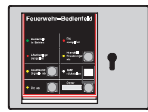


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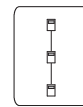


ELS

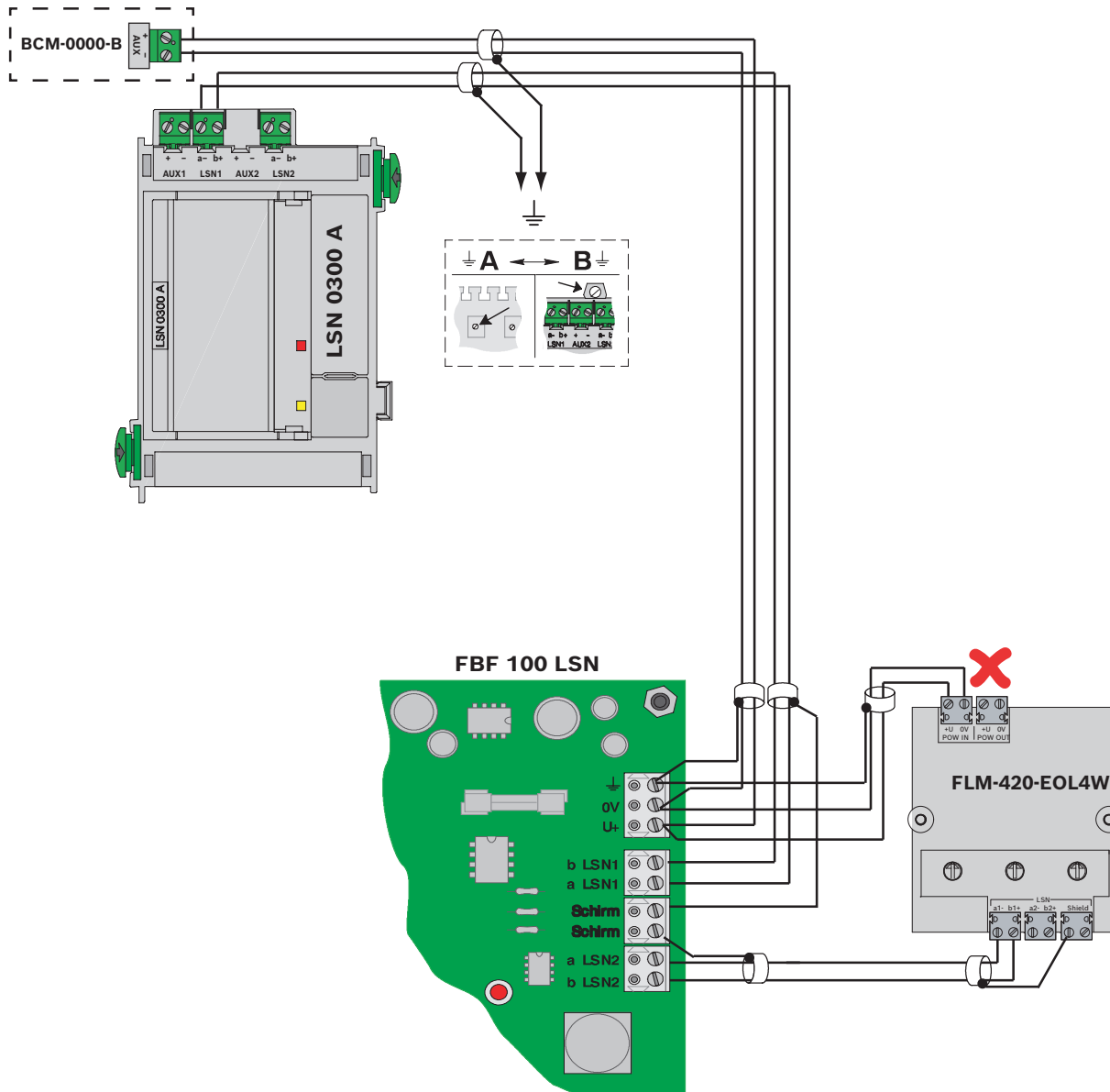




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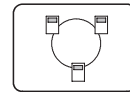


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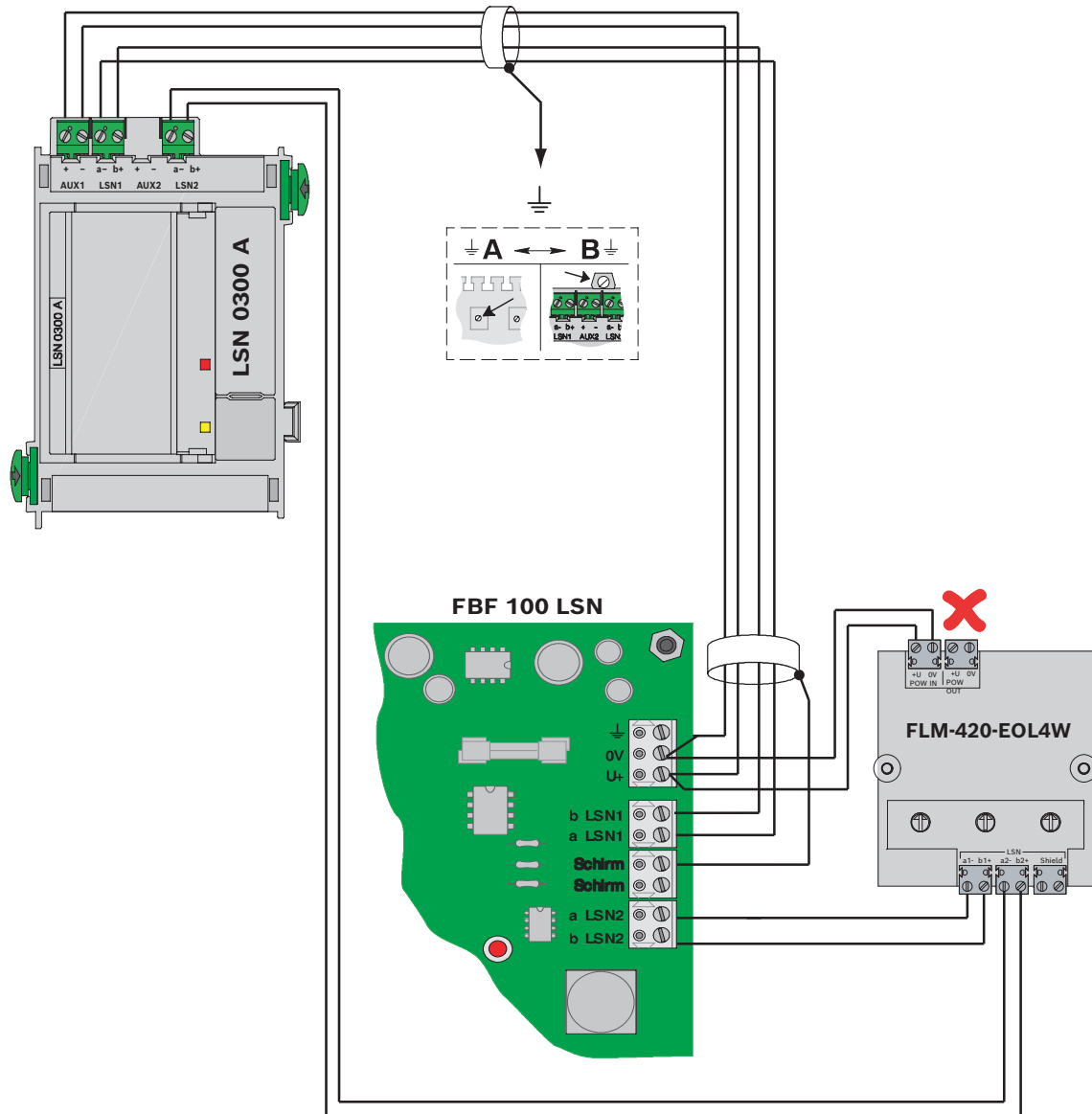




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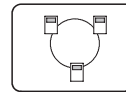


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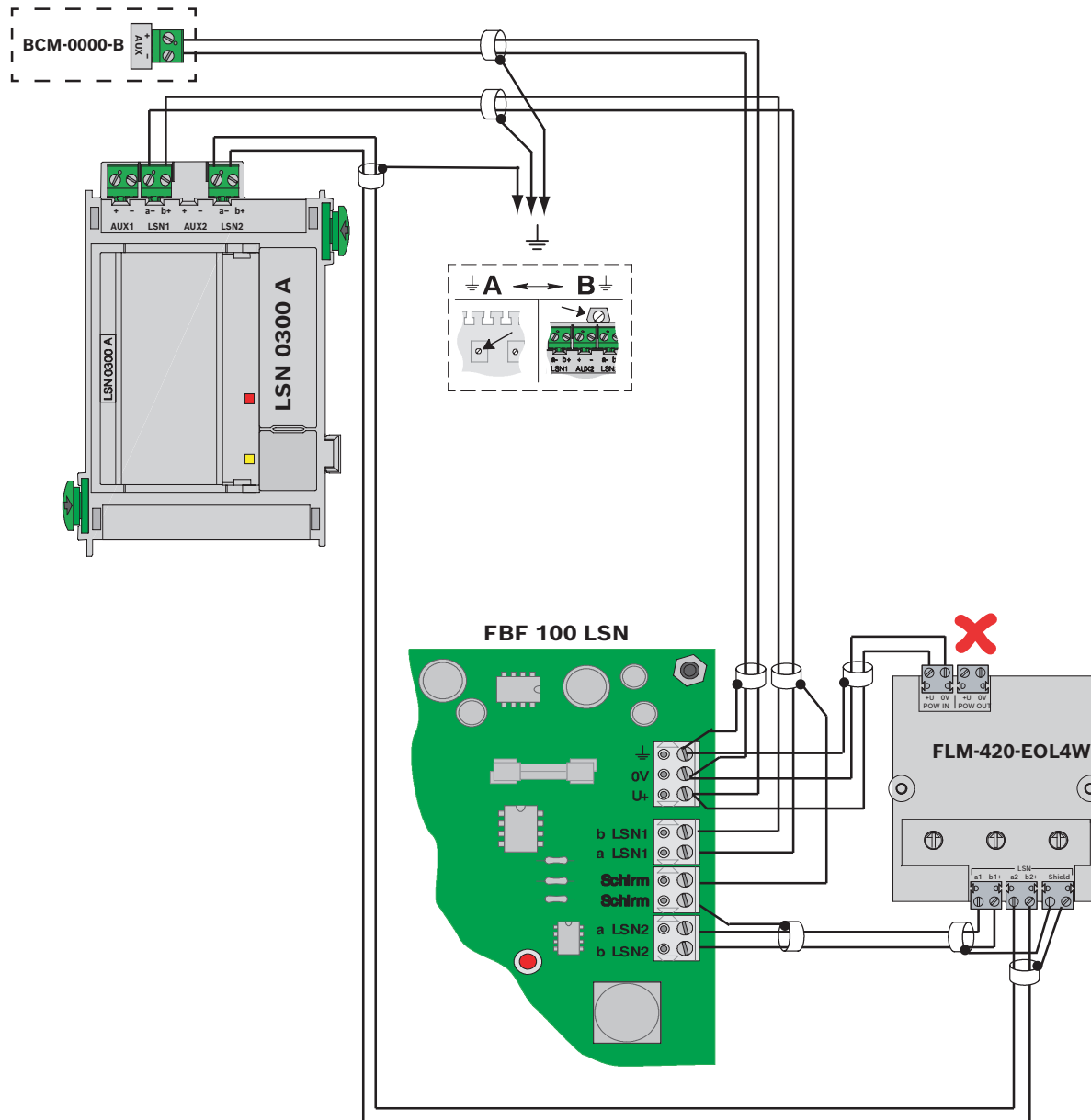


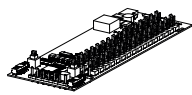


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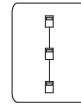


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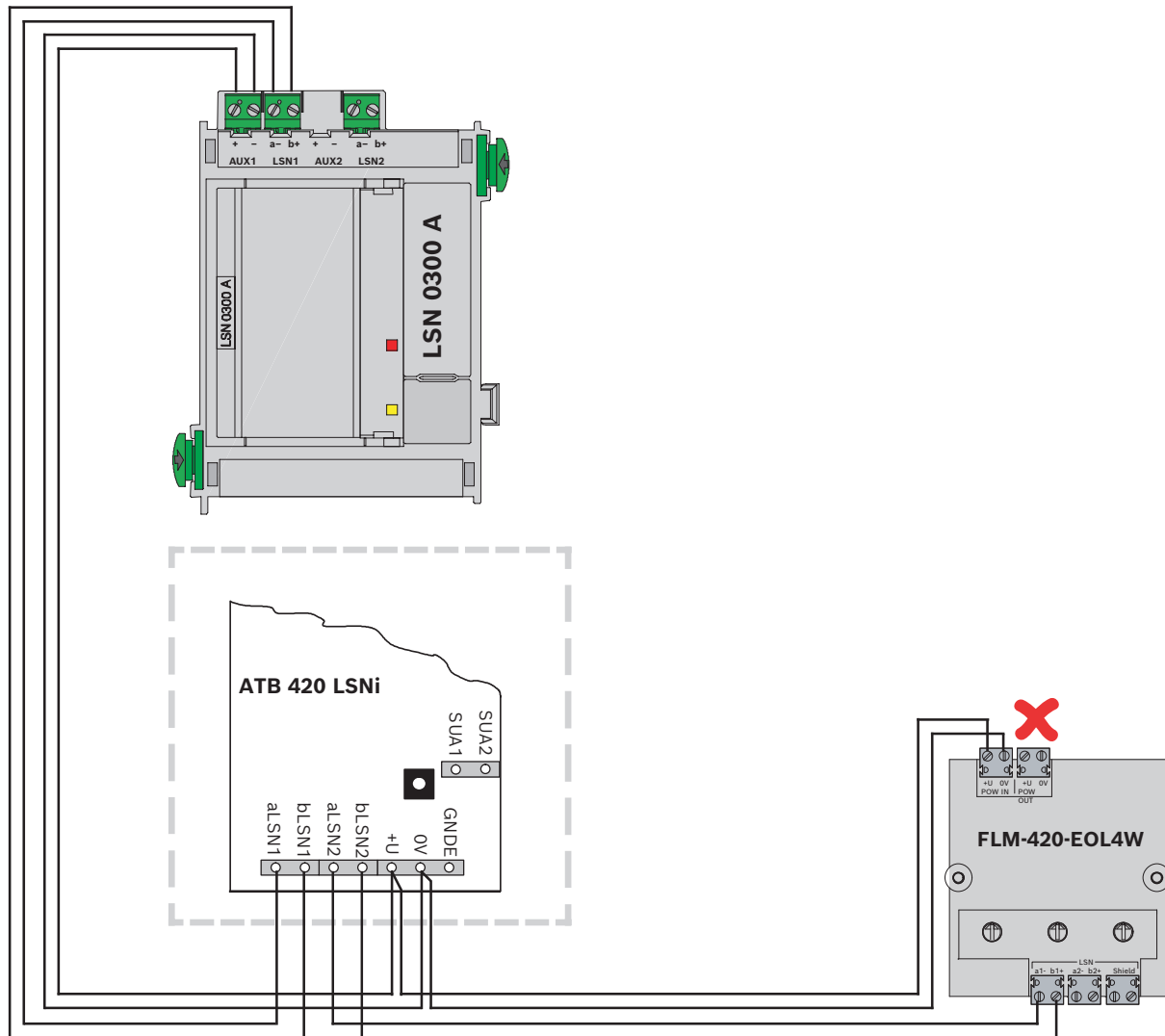


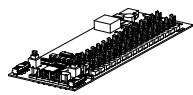


ATB 420 LSNi

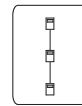


ELS

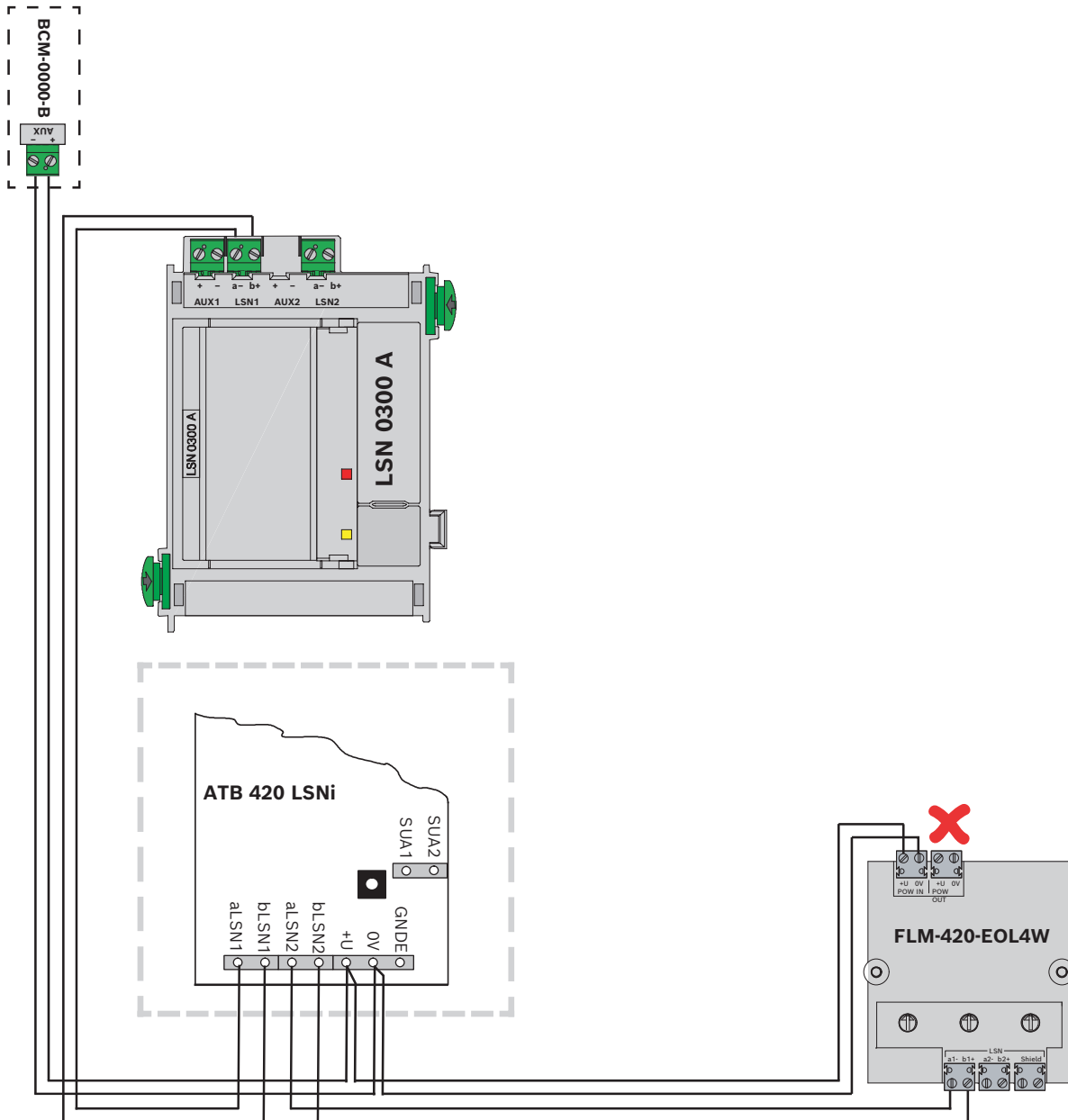


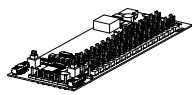


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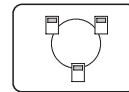


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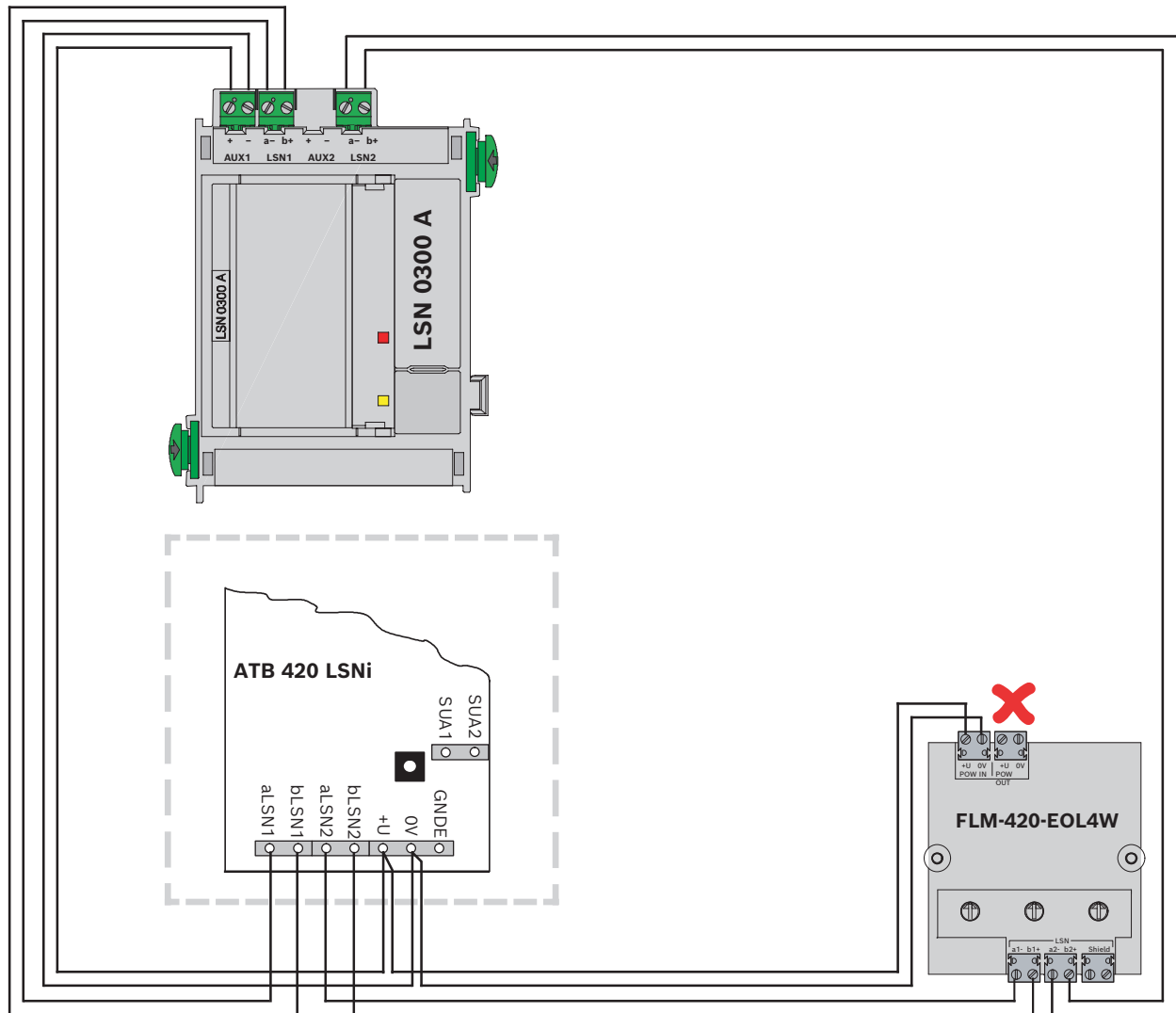


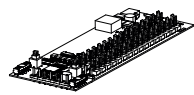


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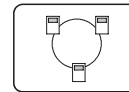


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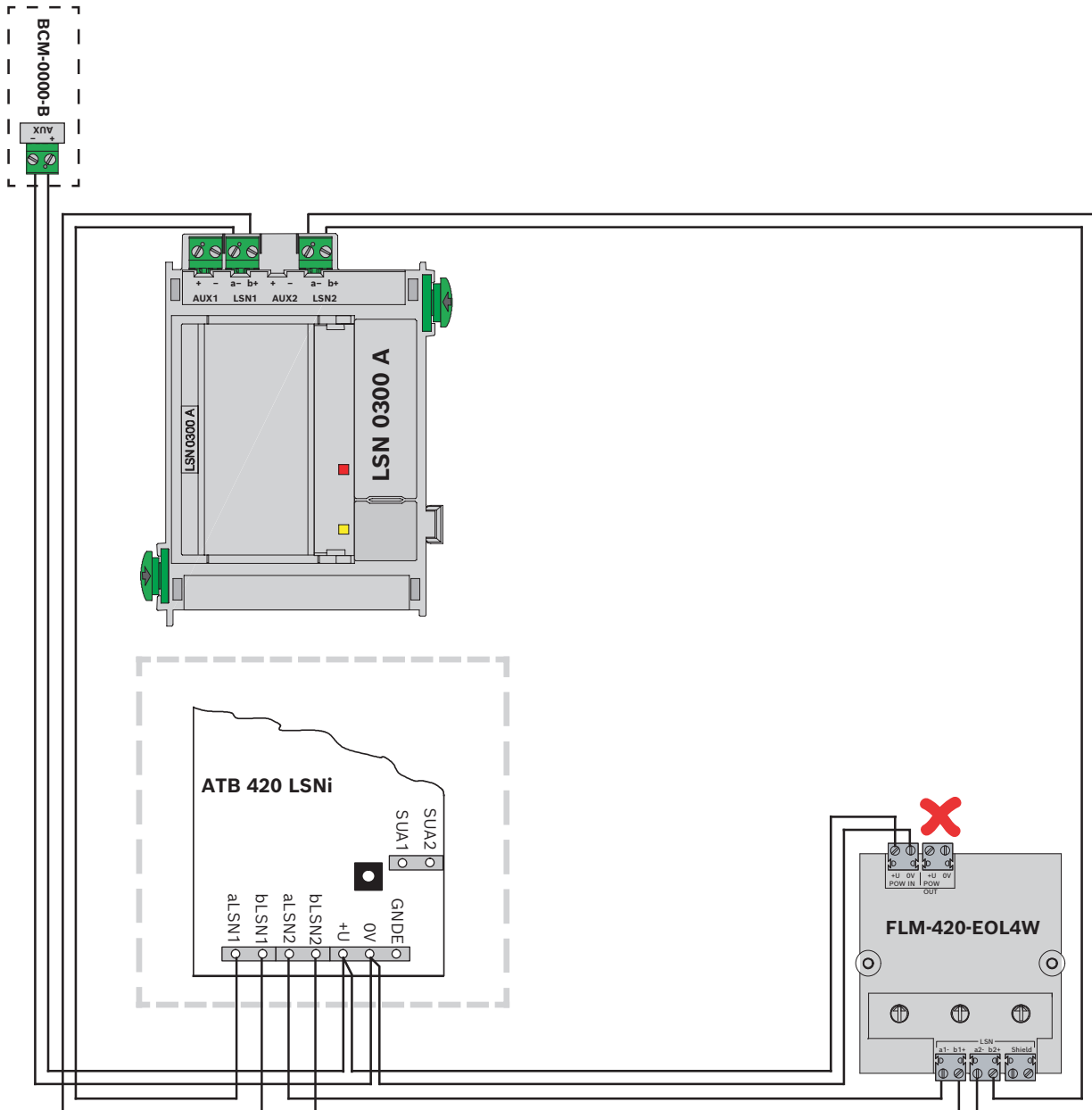




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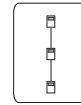


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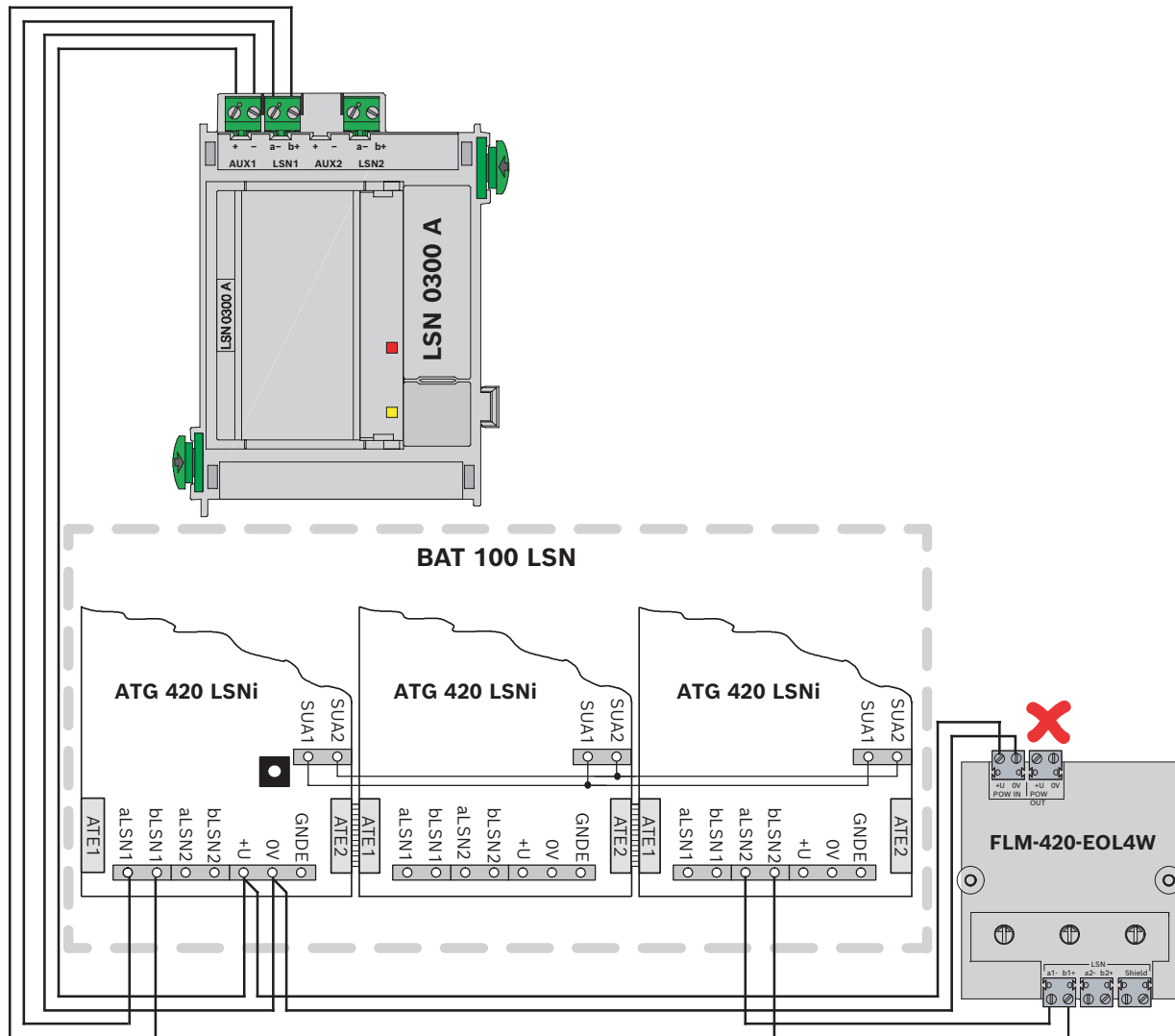




**BAT 100 LSN
ATG 420 LSNi**

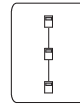


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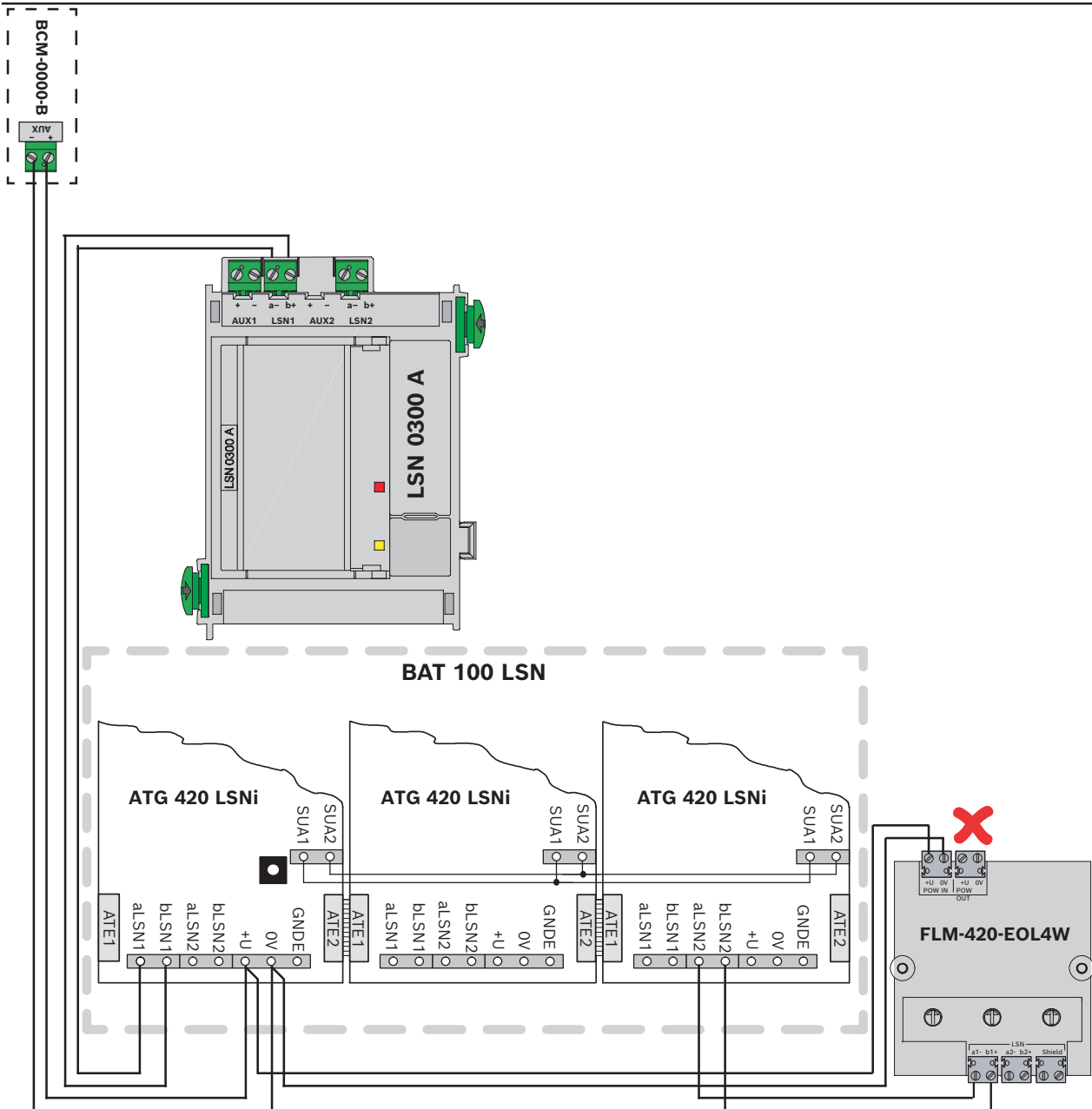




BAT 100 LSN
ATG 420 LSNi

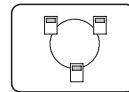


ELS

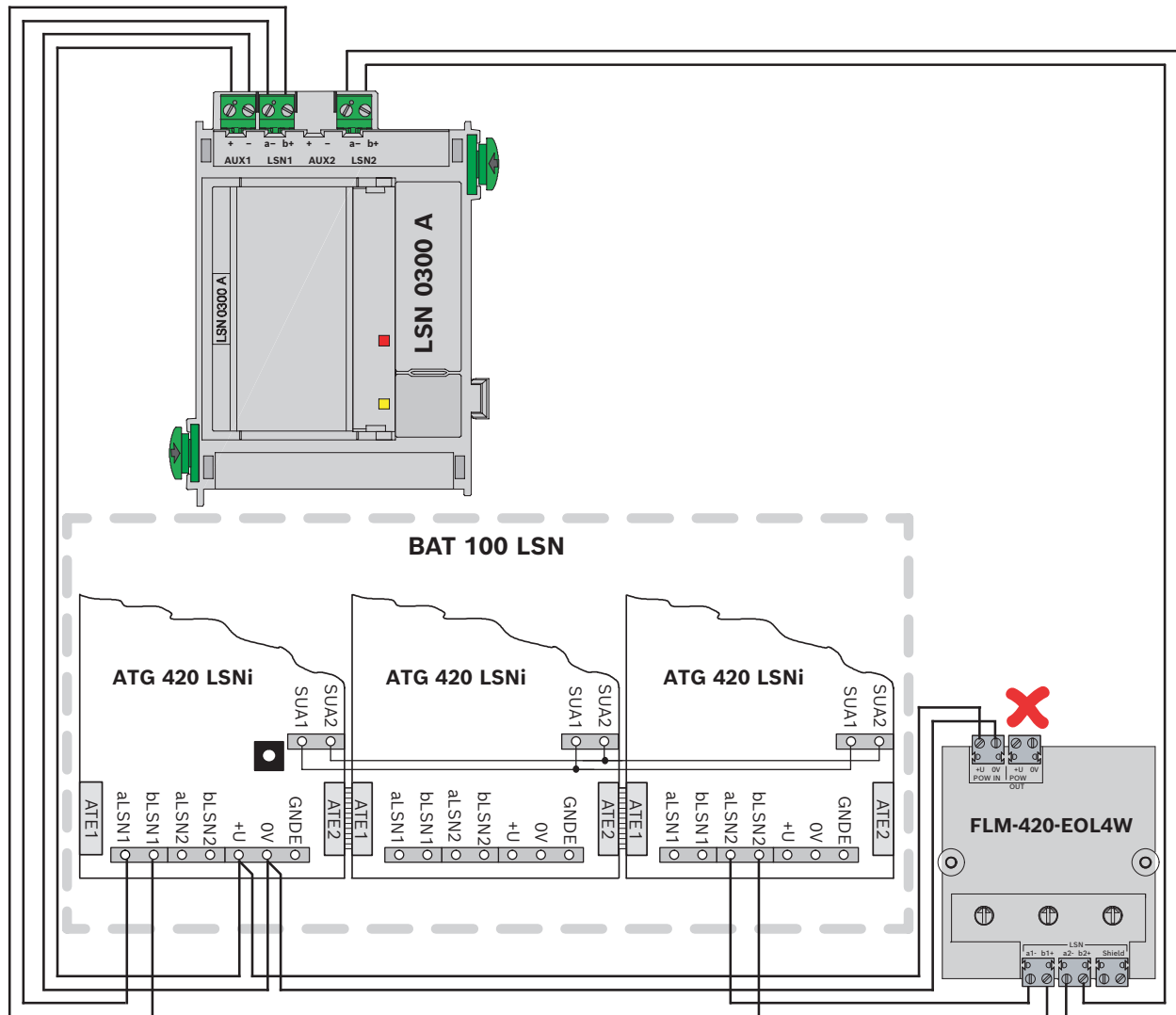




**BAT 100 LSN
ATG 420 LSNi**

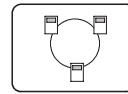


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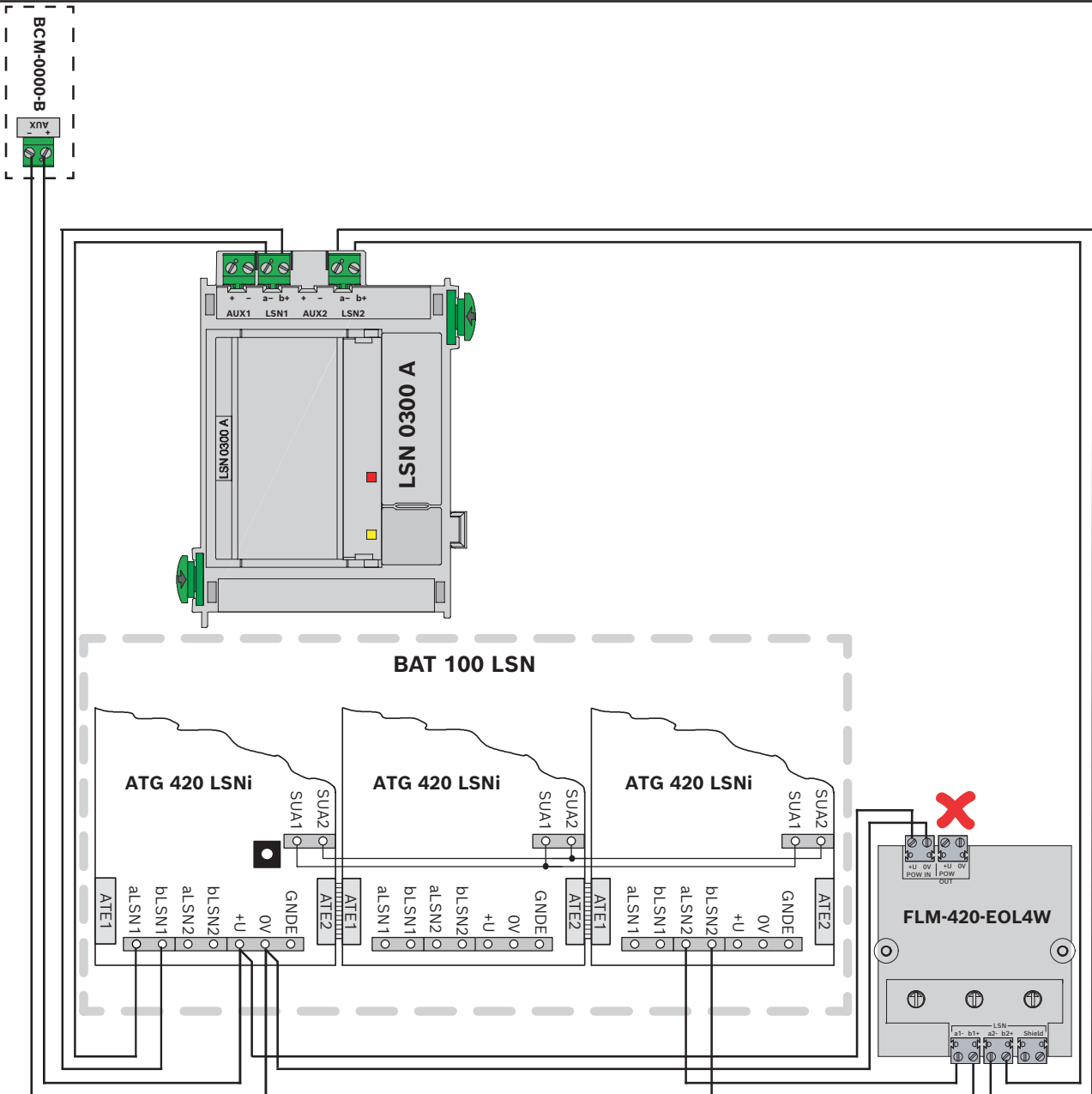




BAT 100 LSN
ATG 420 LSNi



ELS

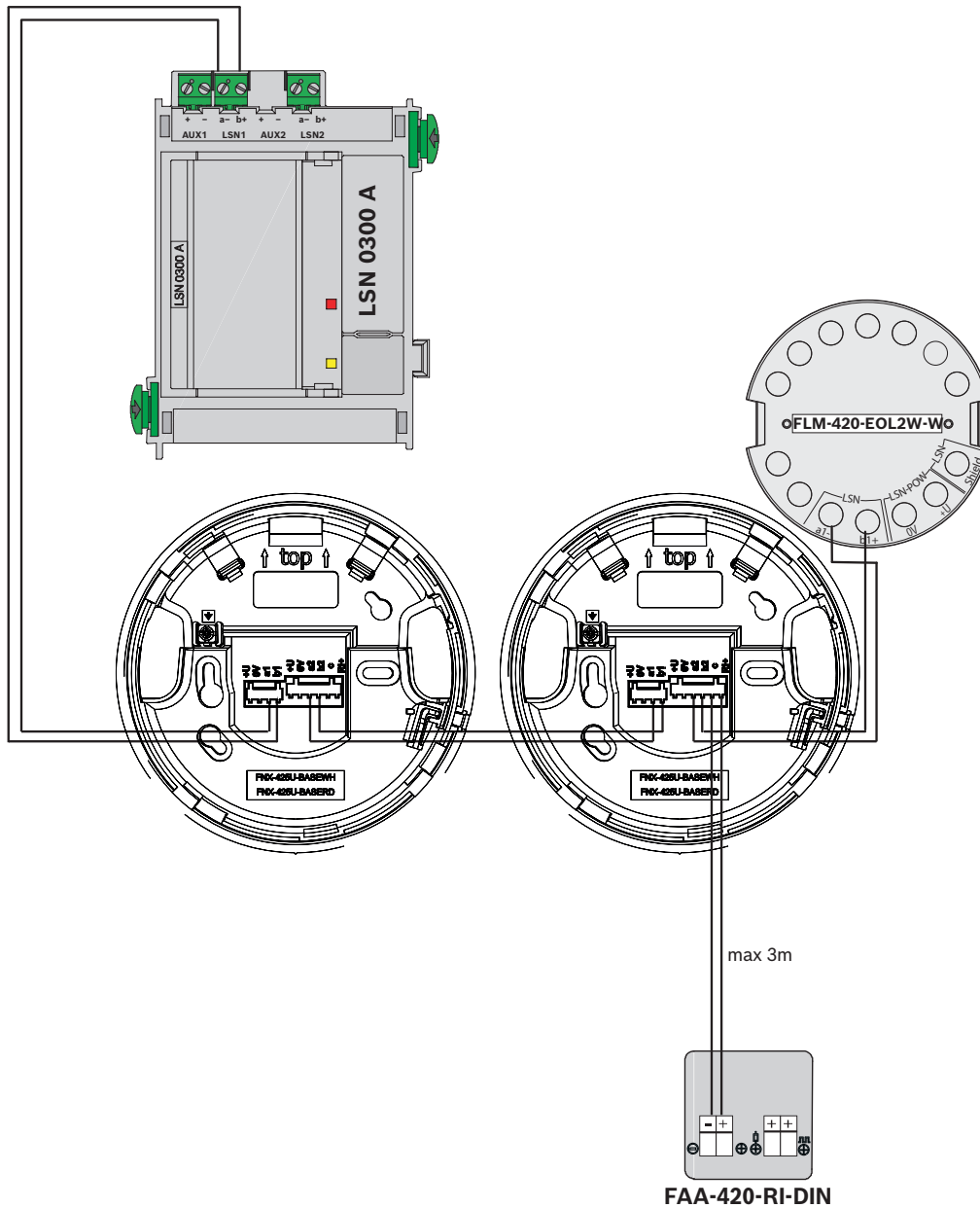




FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD



ELS



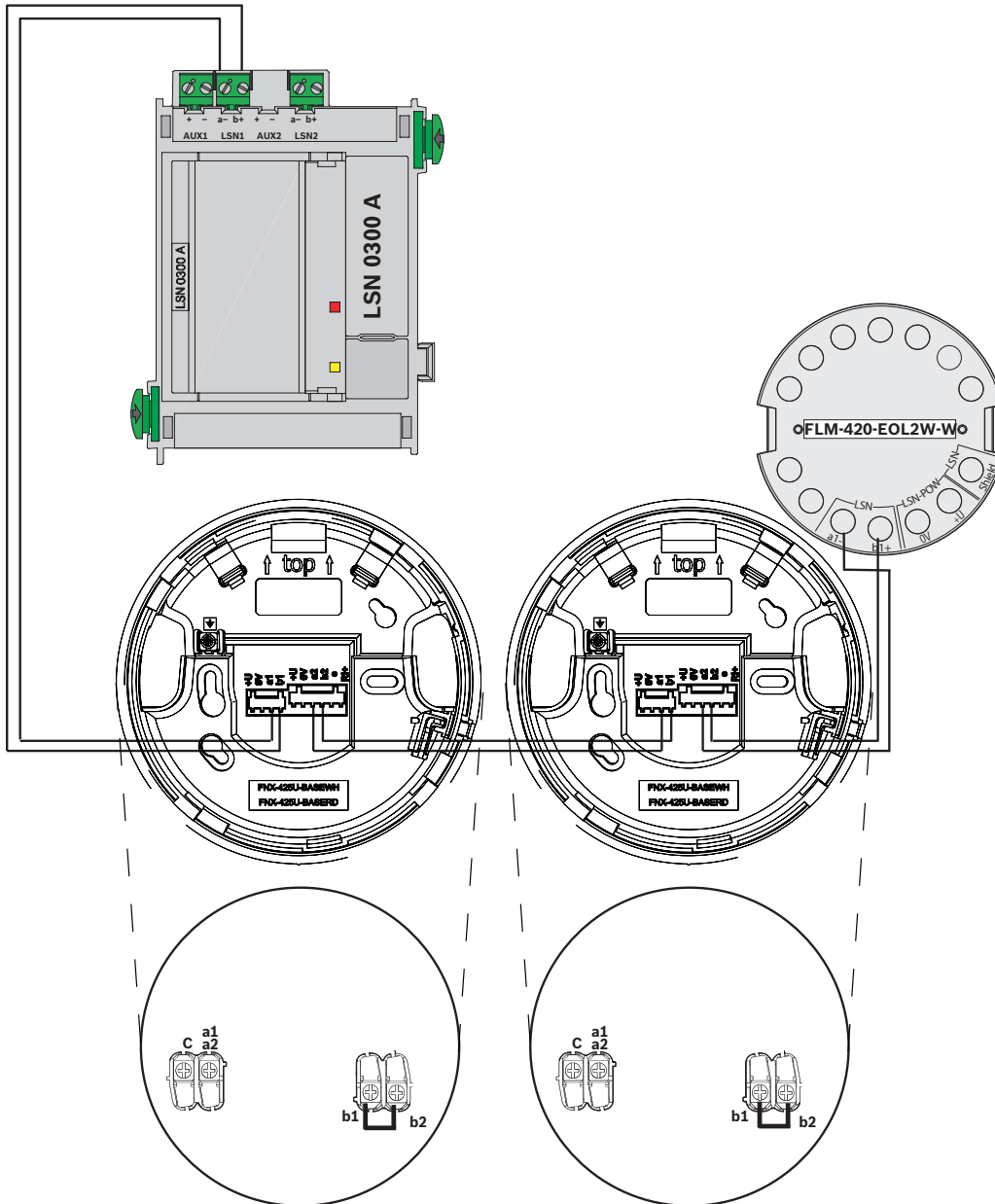


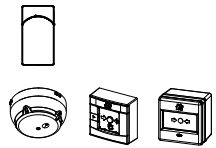
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

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



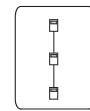
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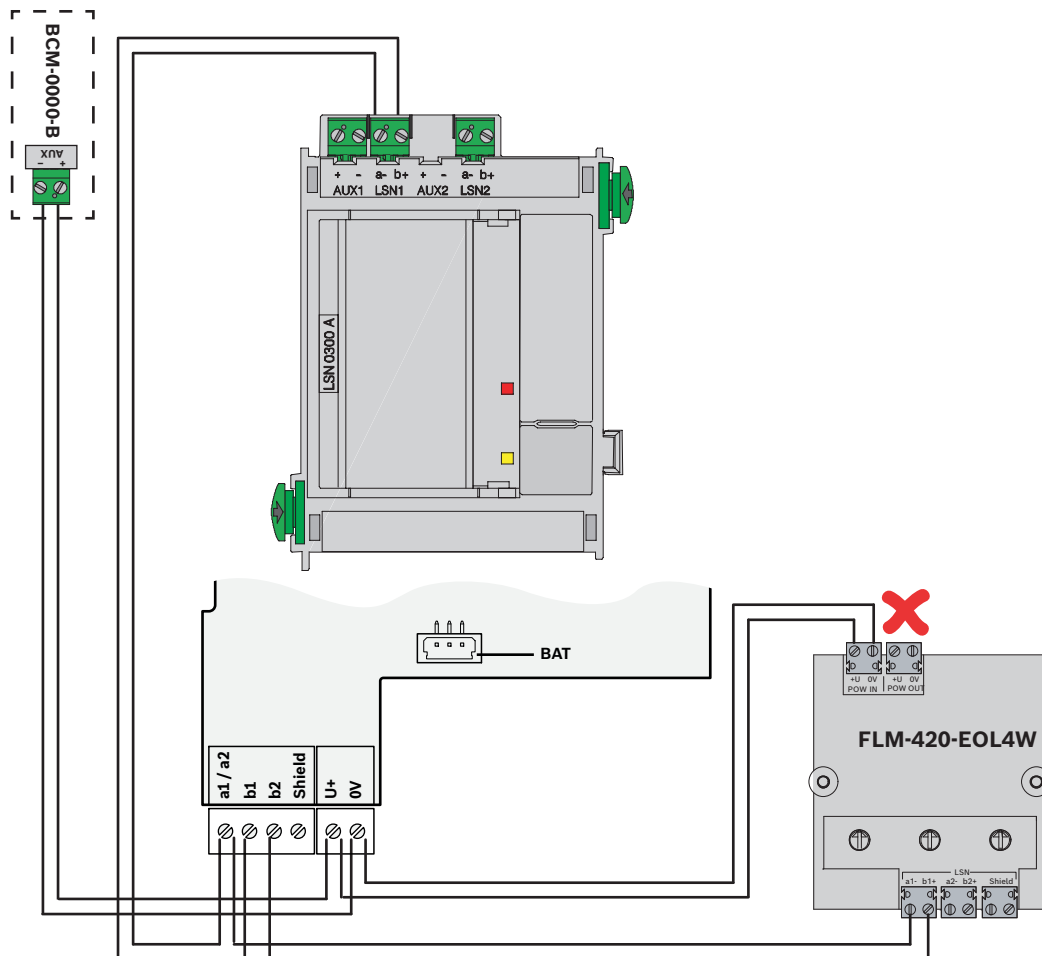


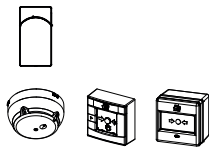
FWI-270

FDOOT271-O
FDM275-O
FDM273-O

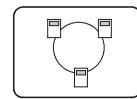


ELS

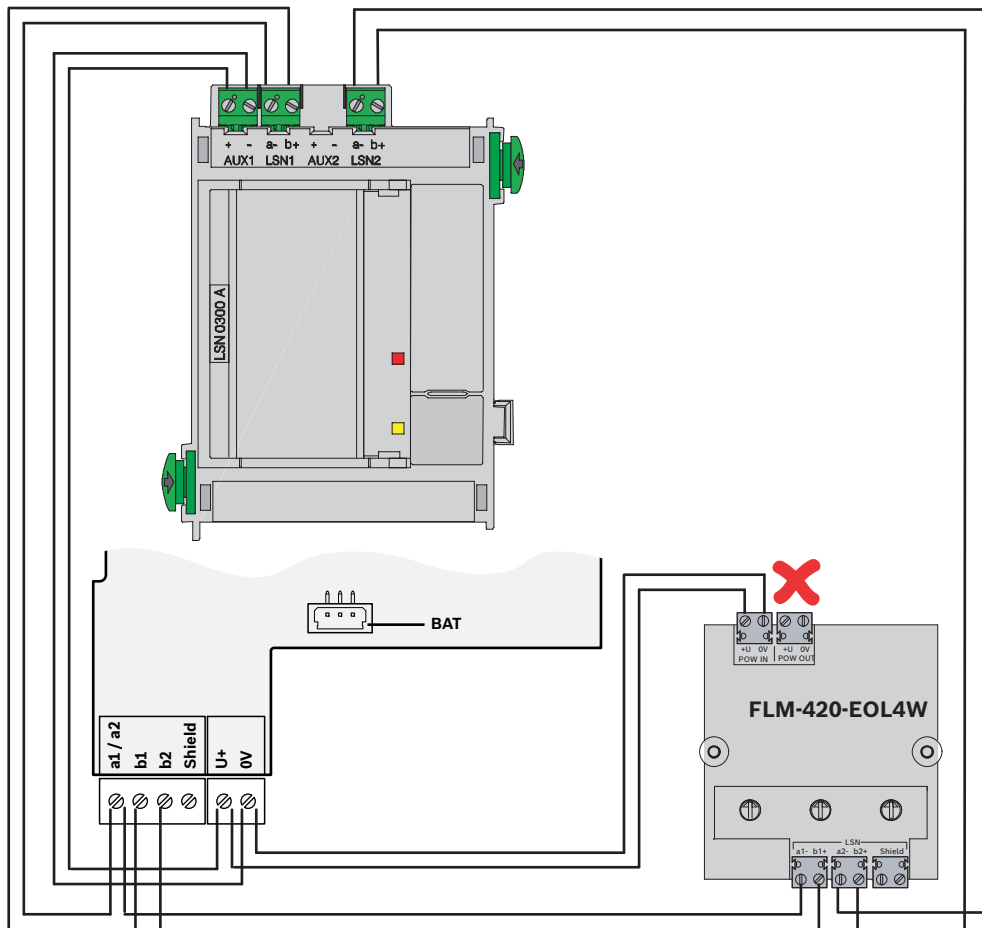


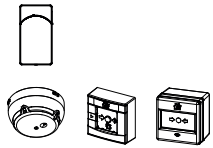


FWI-270
FDOOT271-O
FDM275-O
FDM273-O



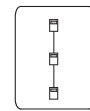
ELS



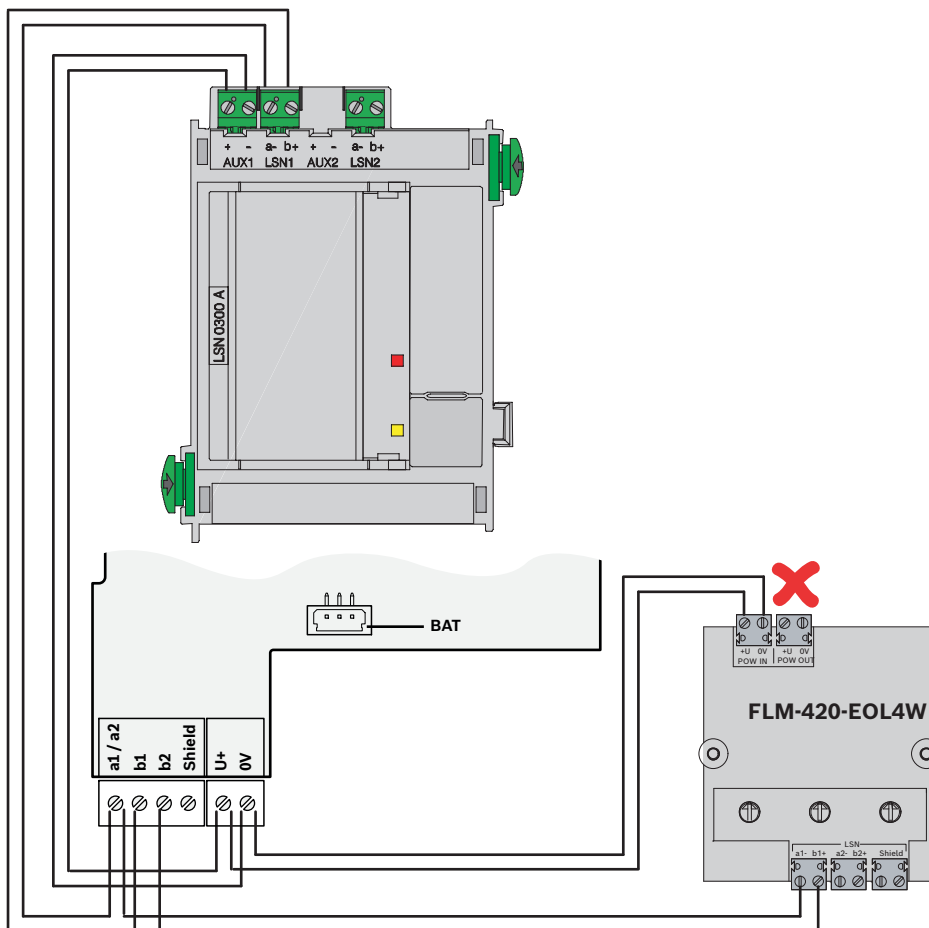


FWI-270

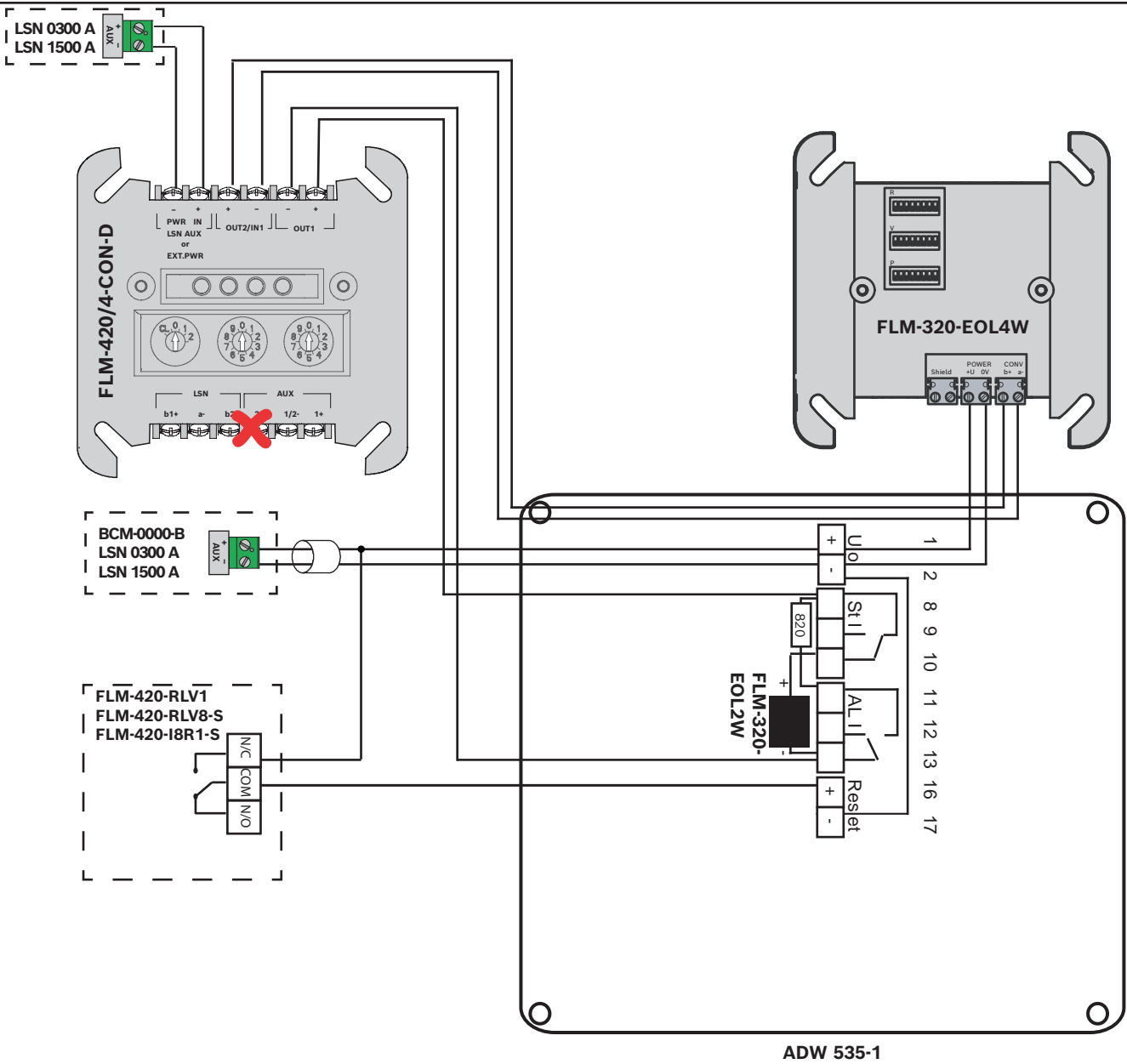
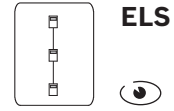
FDOOT271-O
FDM275-O
FDM273-O

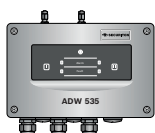


ELS

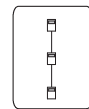


2.6.3 FLM-420/4-CON-S/D

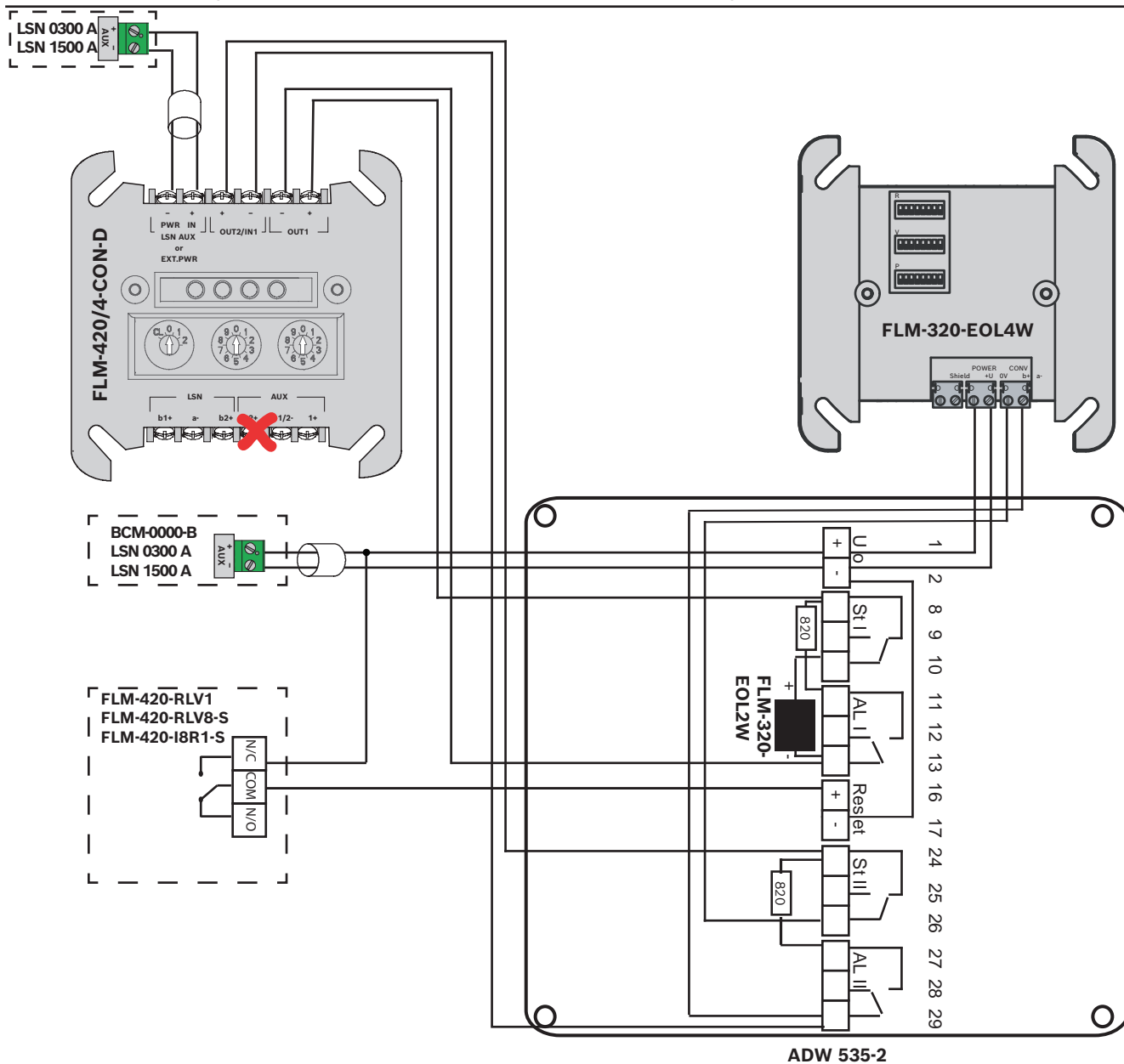


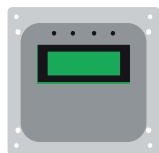


ADW 535-2



ELS

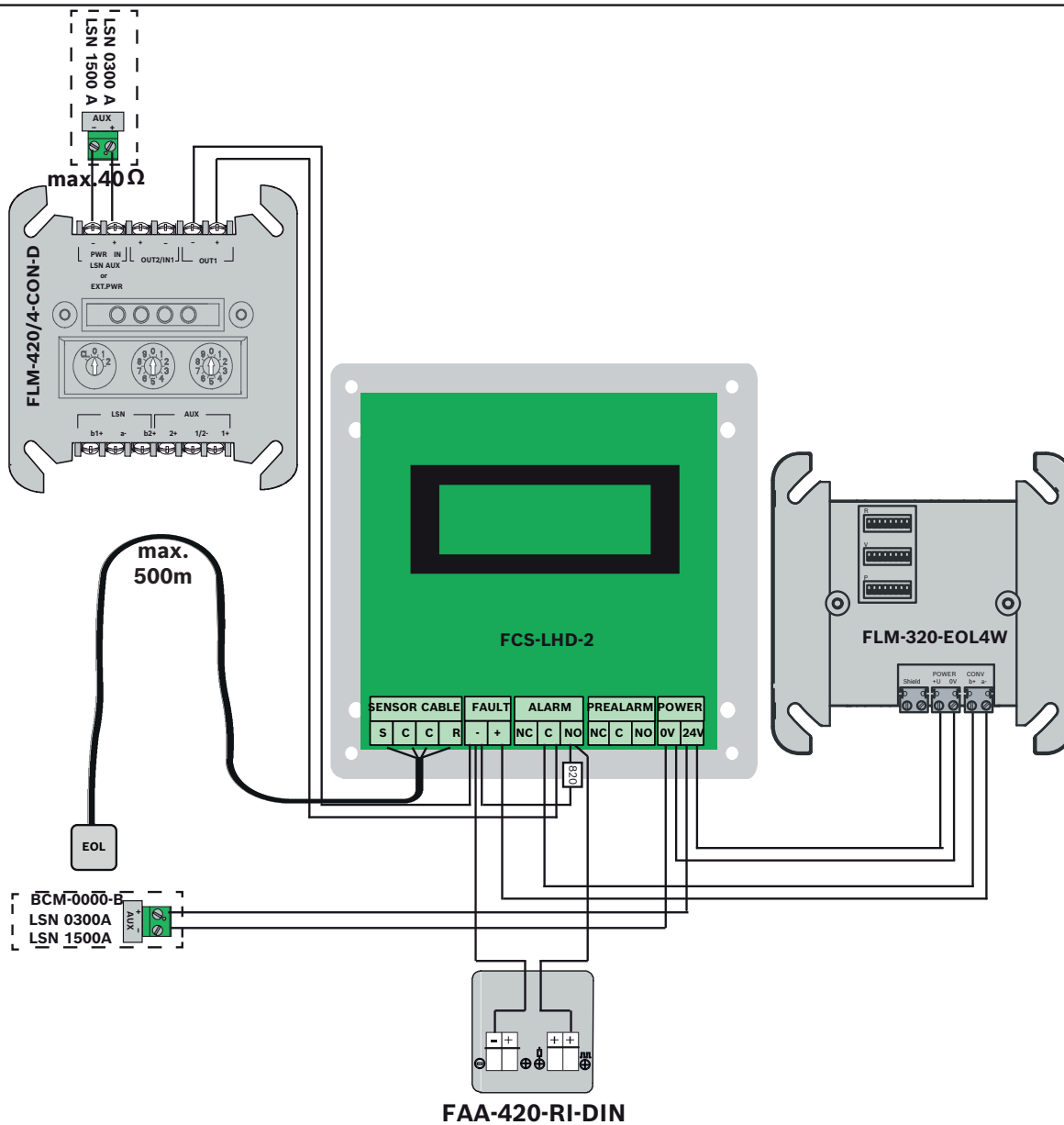




ALARMLINE II

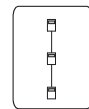


ELS

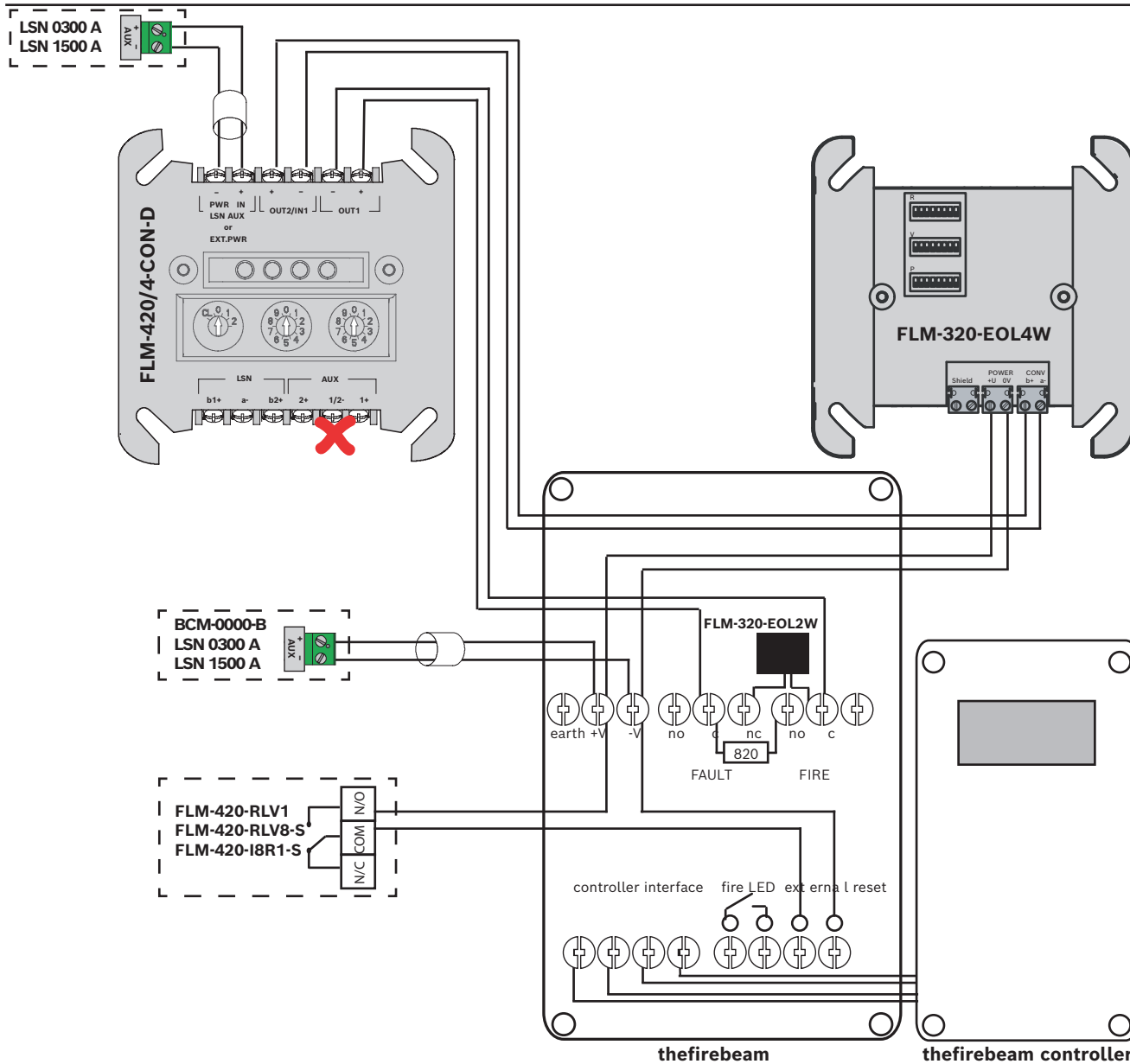


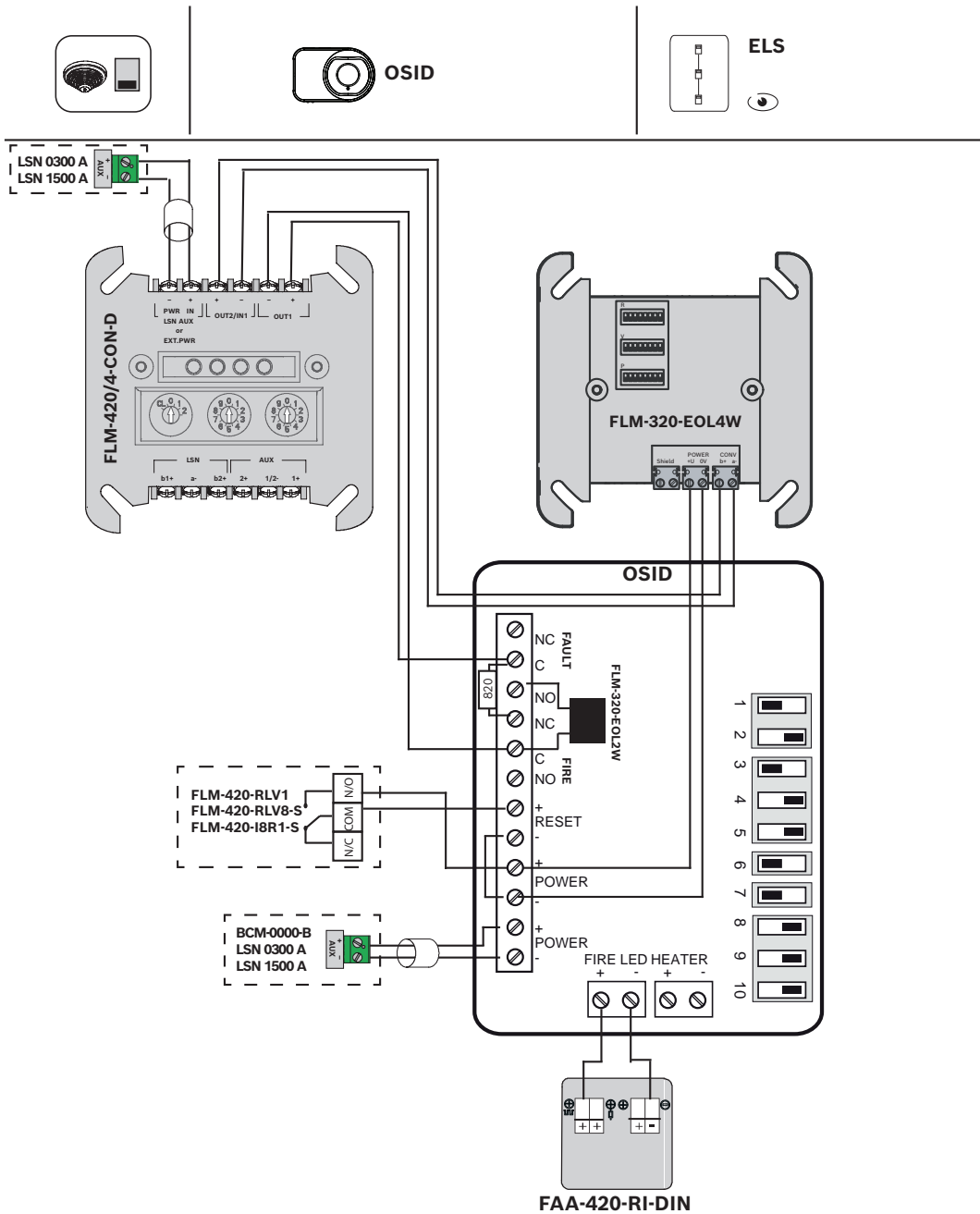


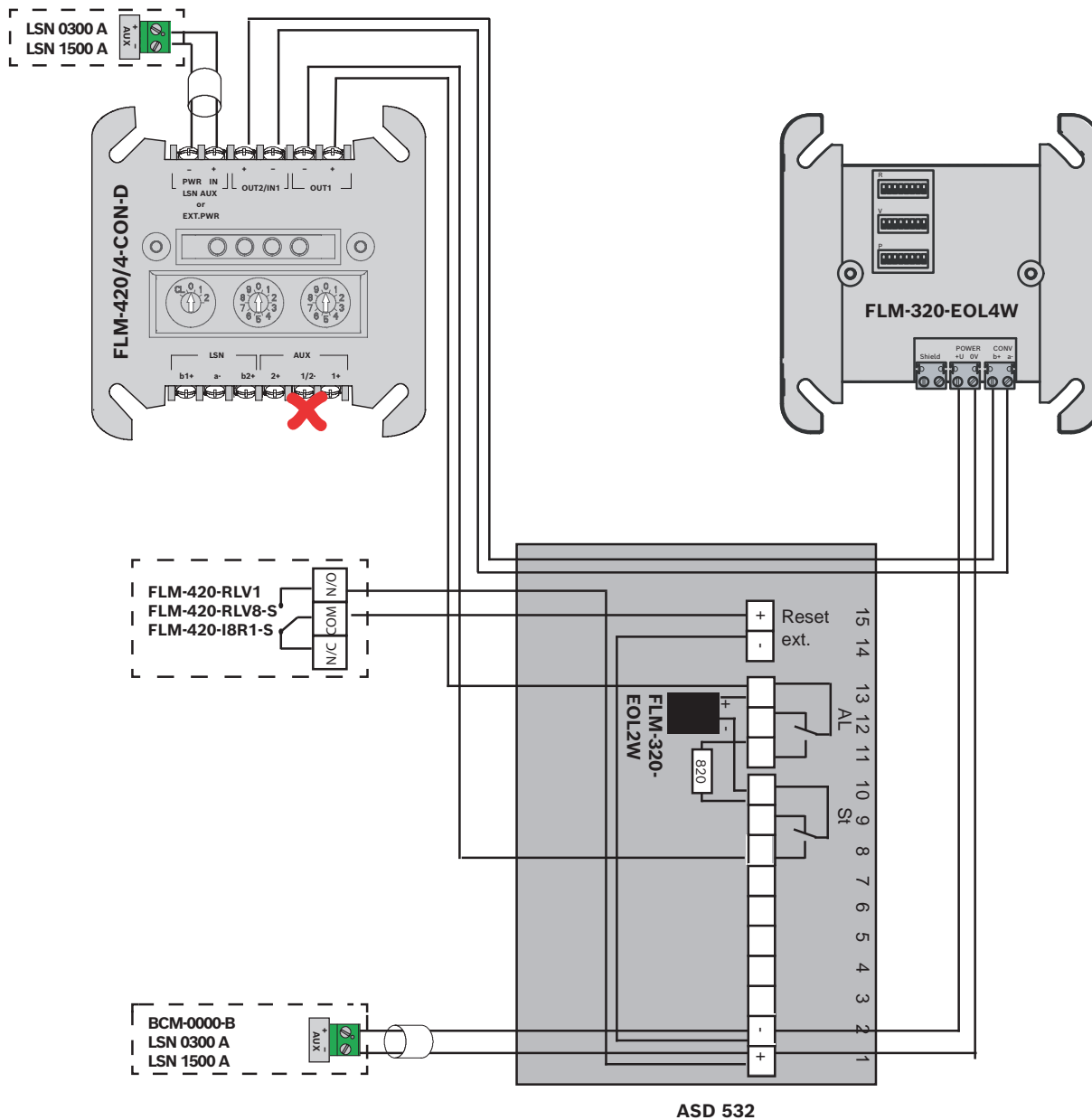
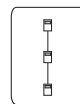
thefirebeam nano
thefirebeam standard
thefirebeam foveo

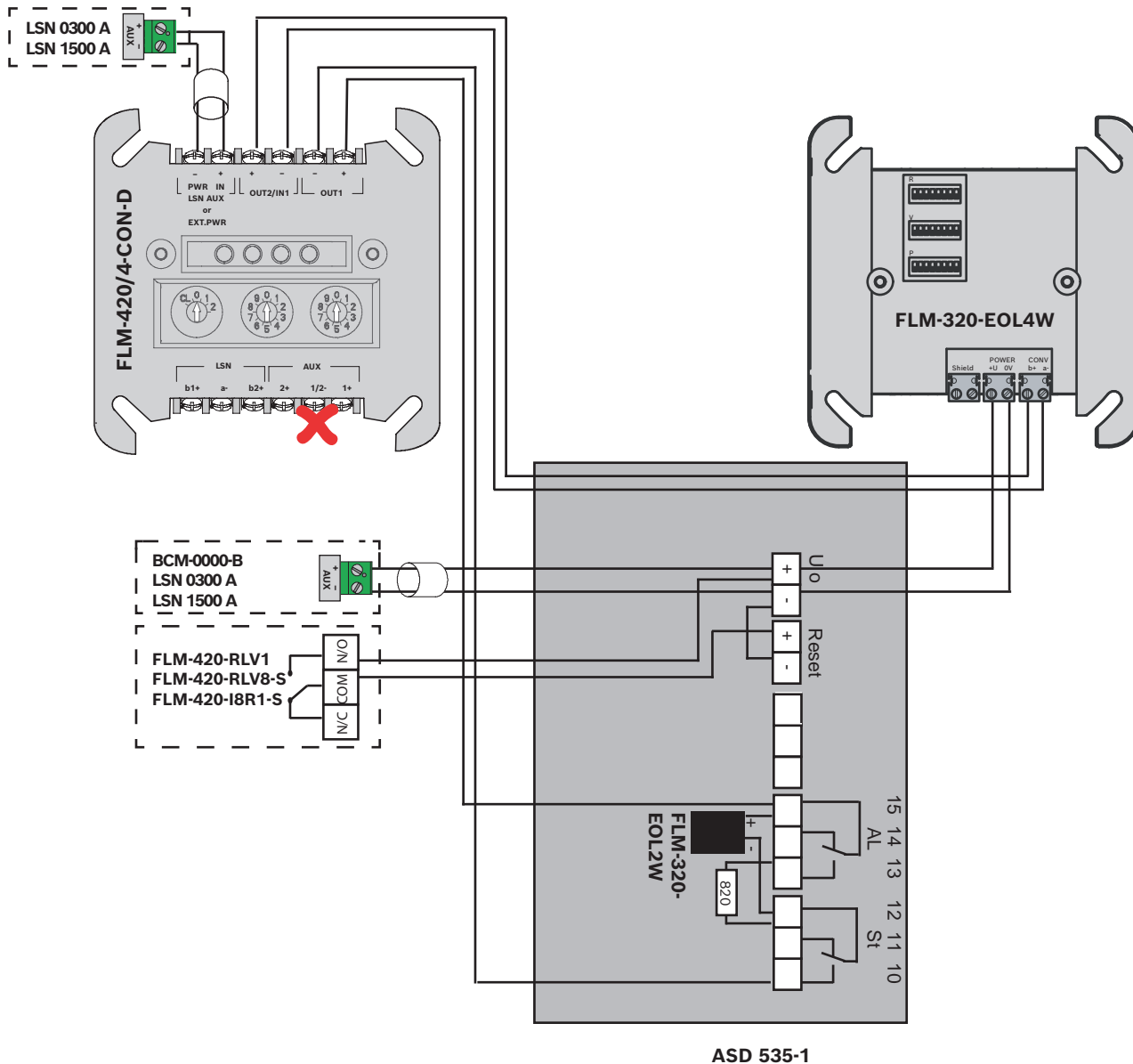
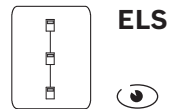


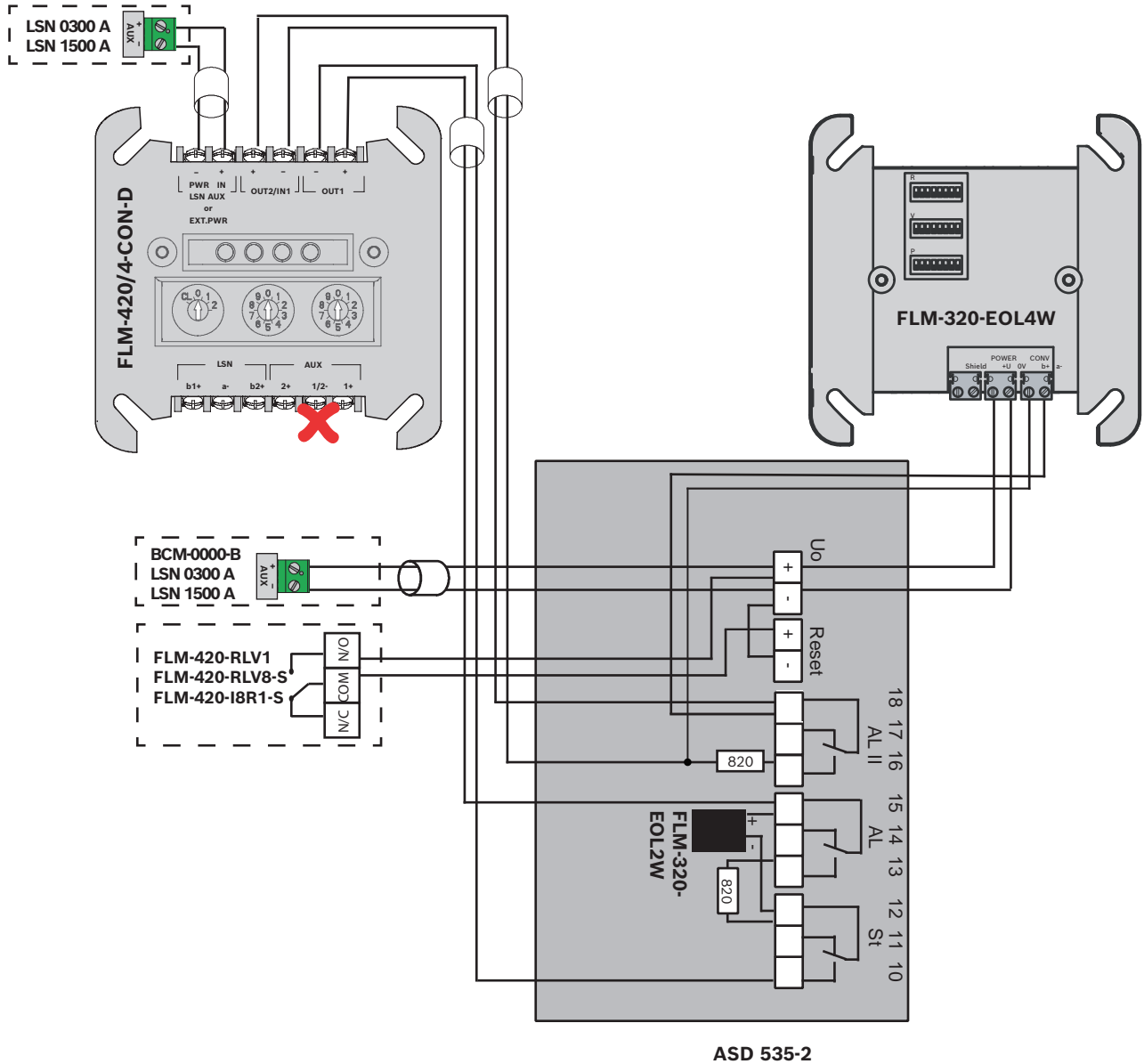
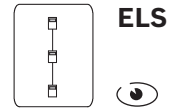
ELS

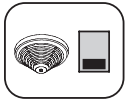




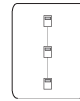






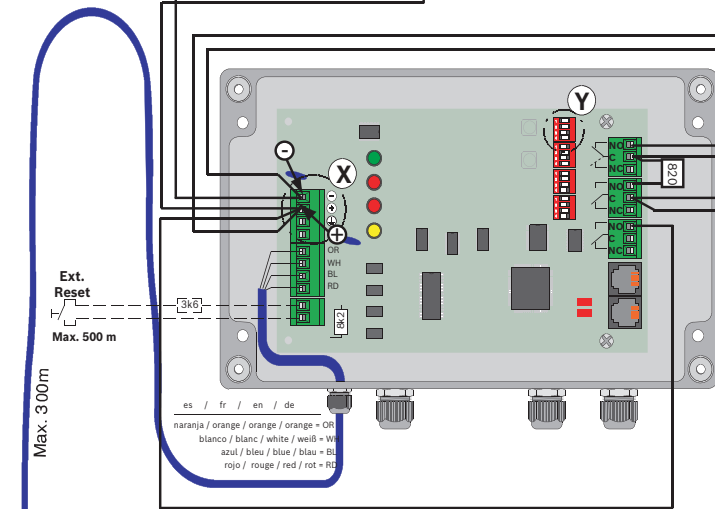
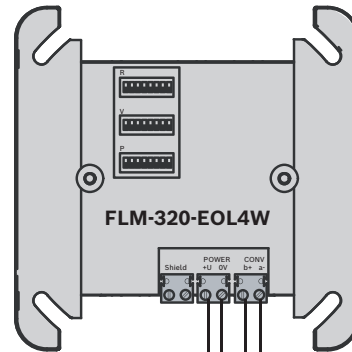
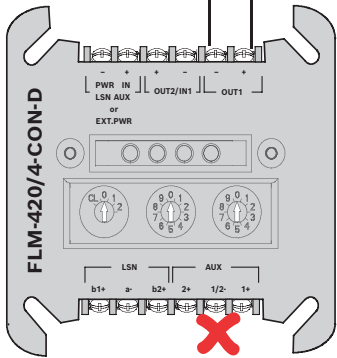


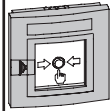
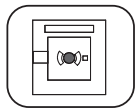
FCS-LWM-1



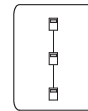
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

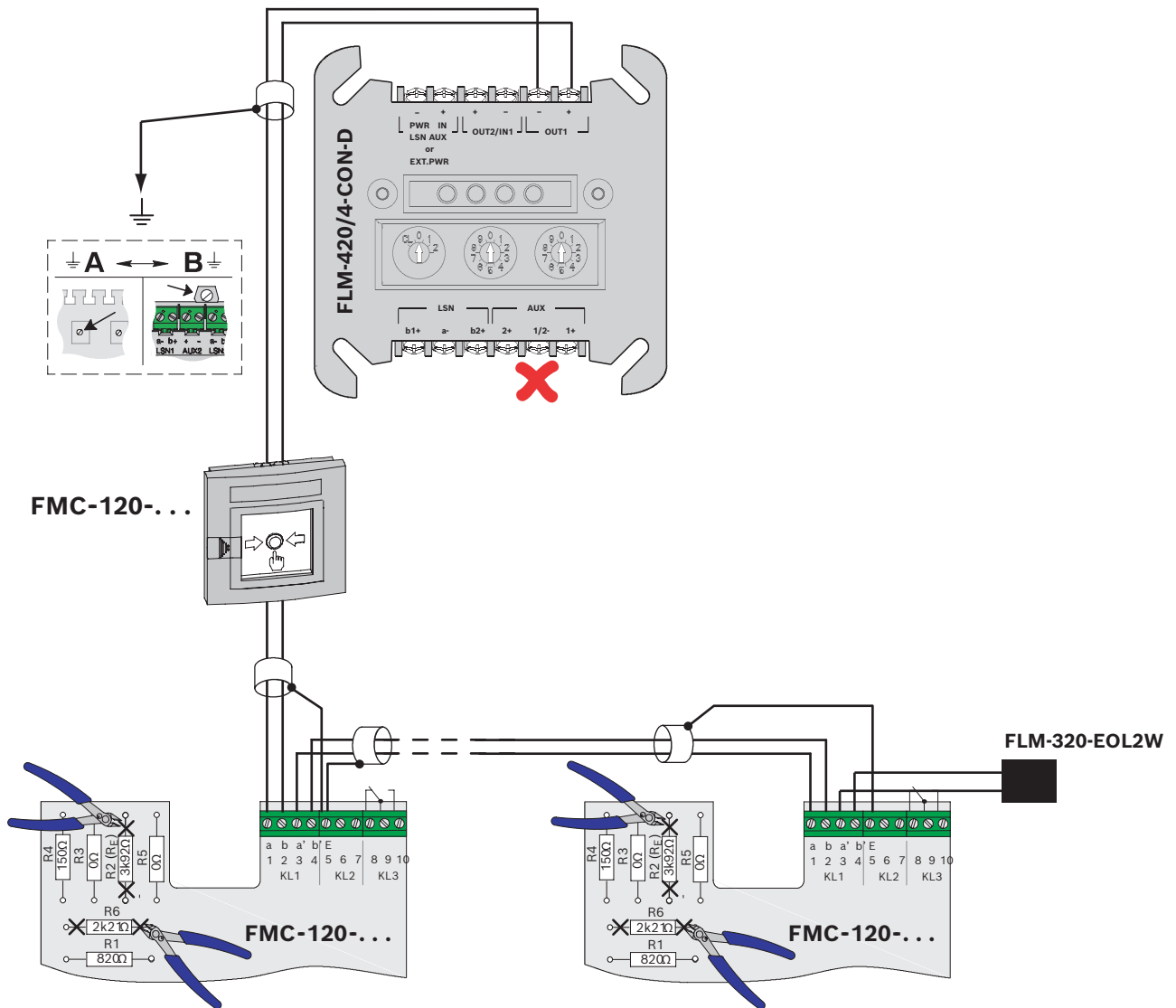




FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B

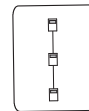


ELS

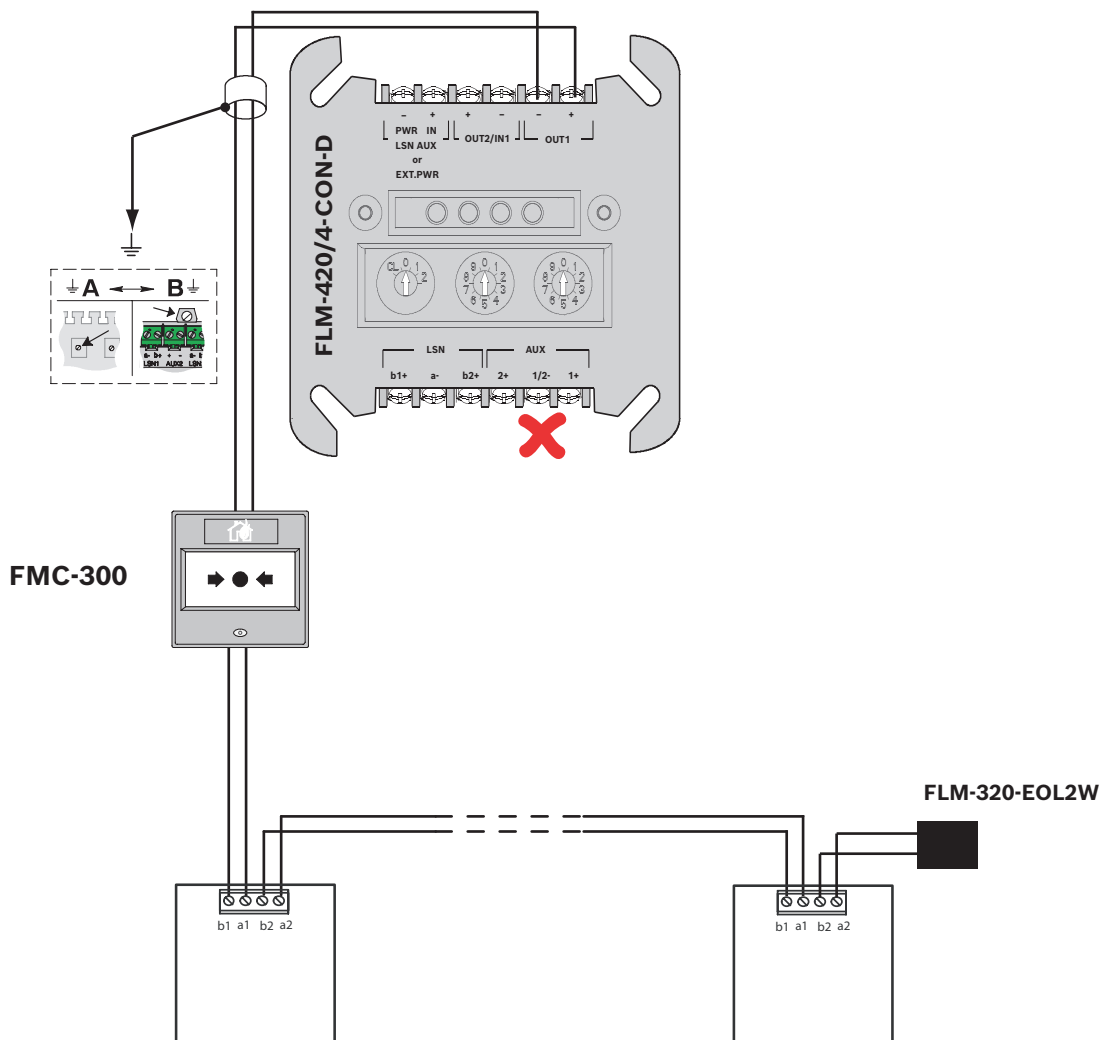


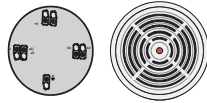


FMC-300



ELS

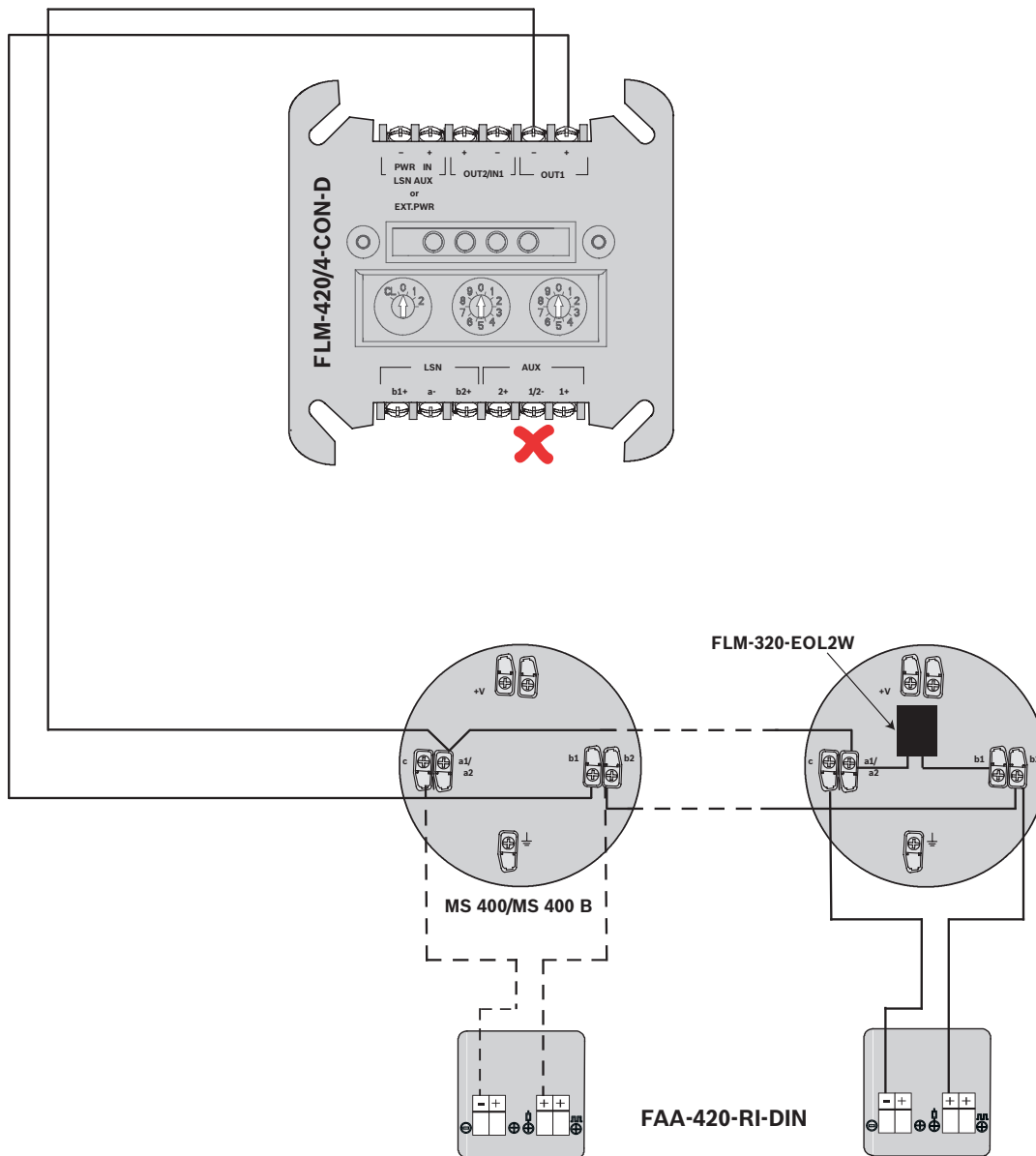




MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



ELS

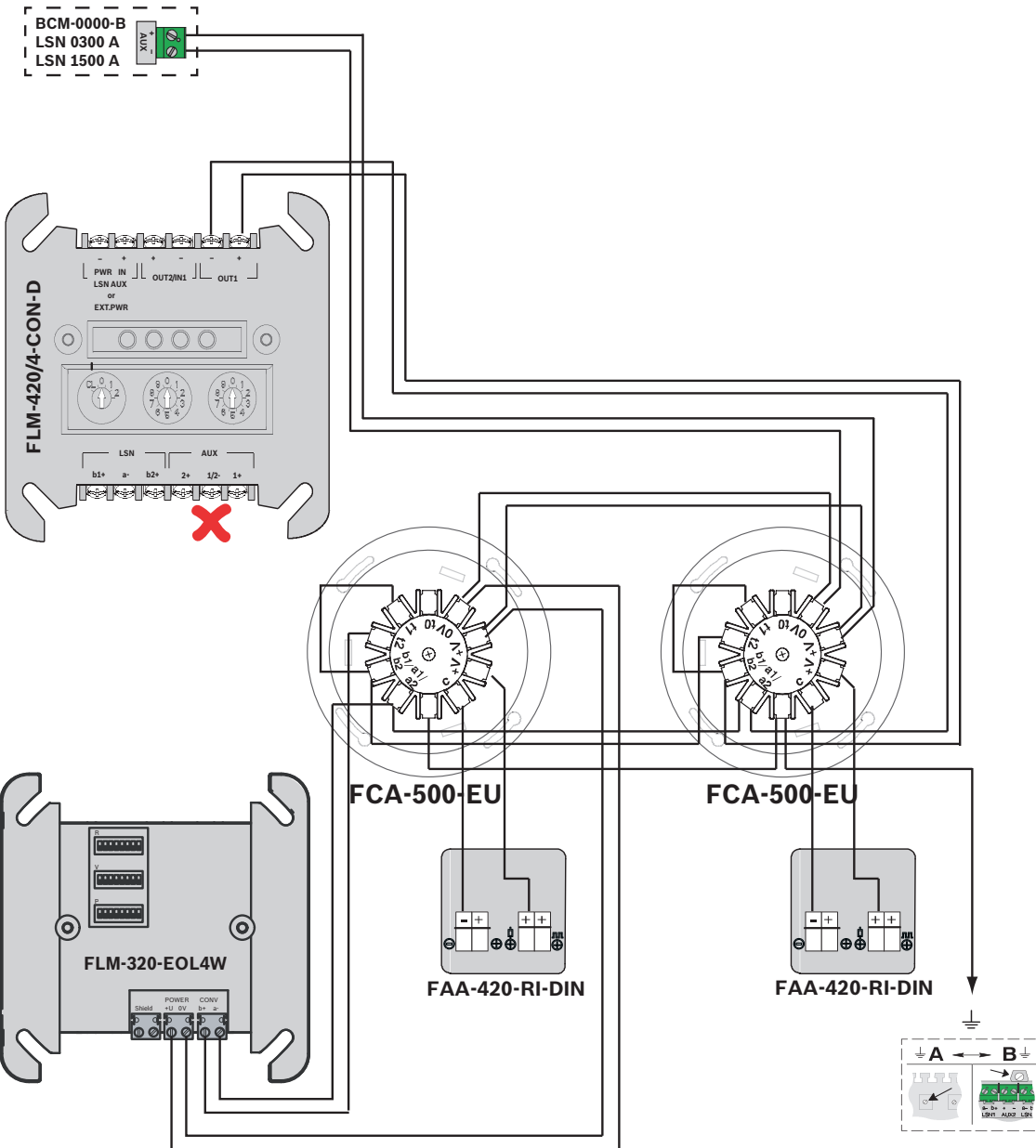


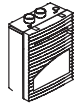


FCP-500

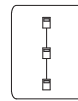


ELS

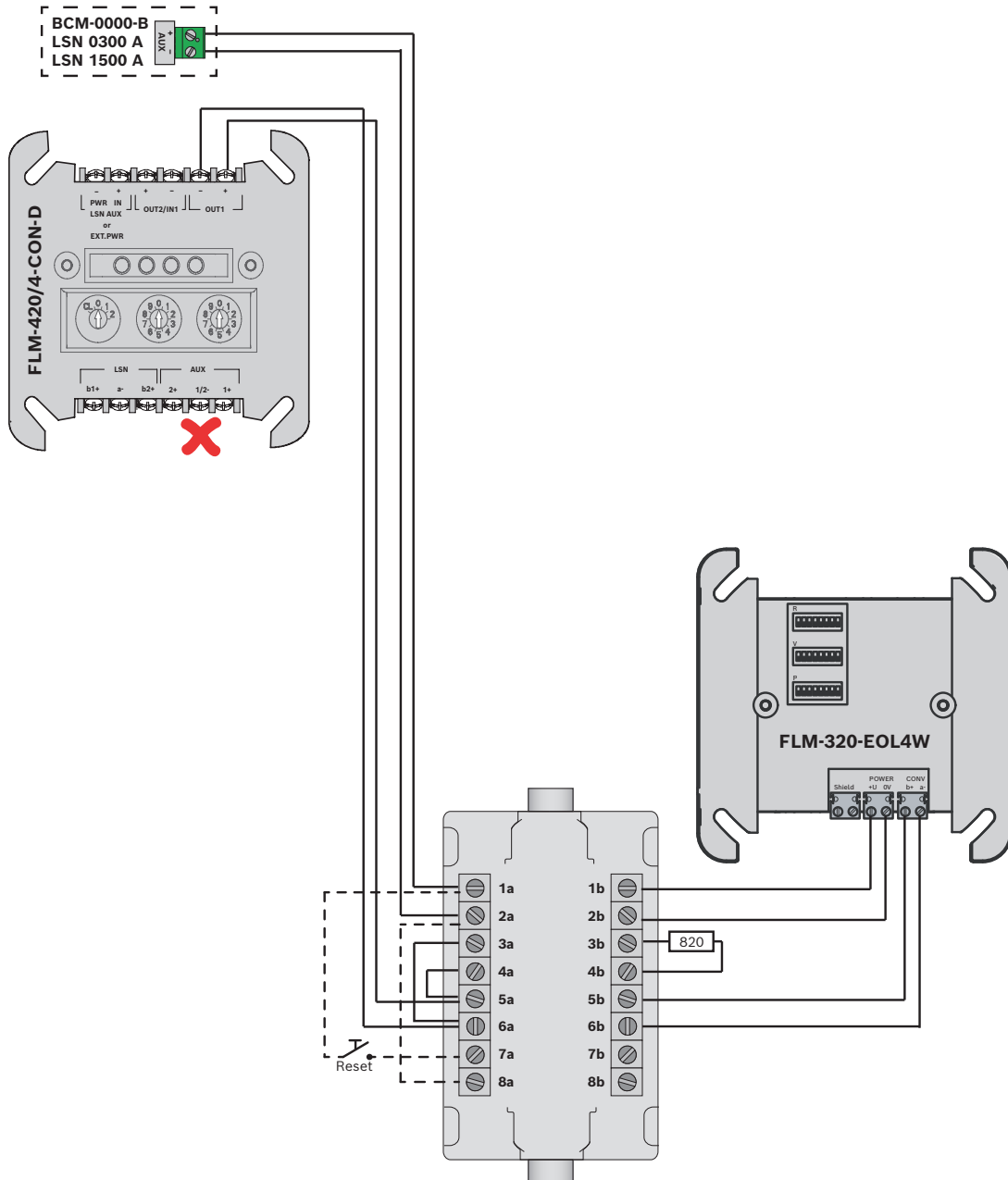


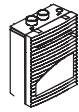


FCS-320-TM Series

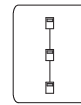


ELS



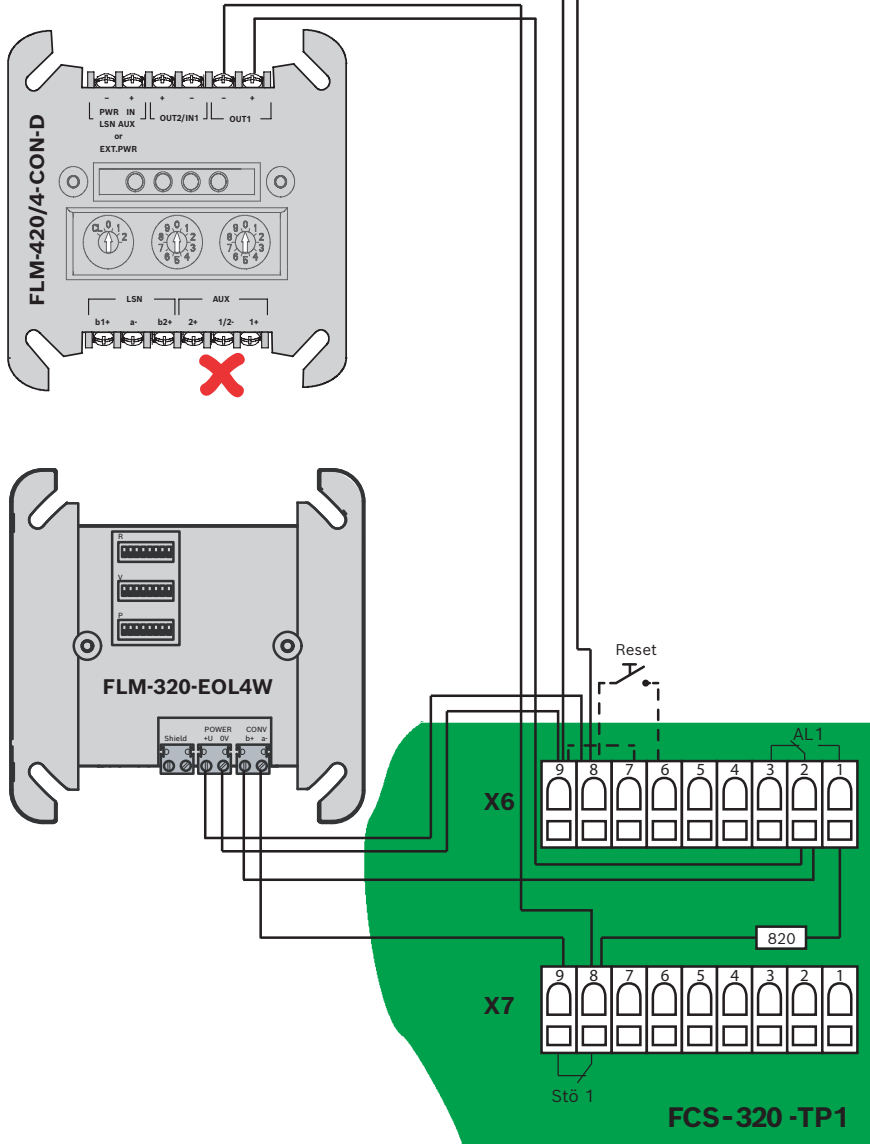


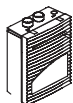
FCS-320-TP Series



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



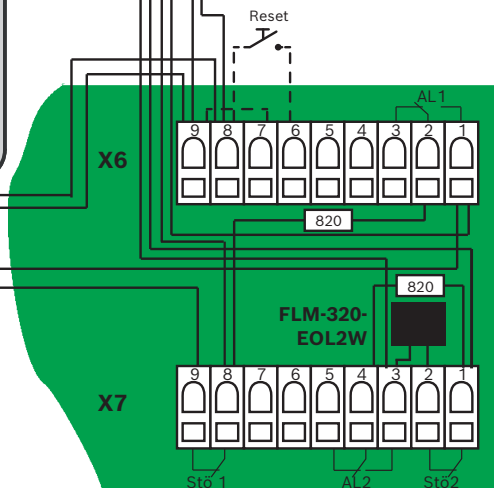
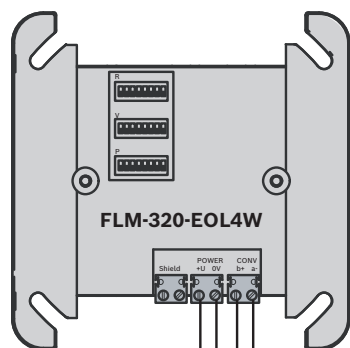
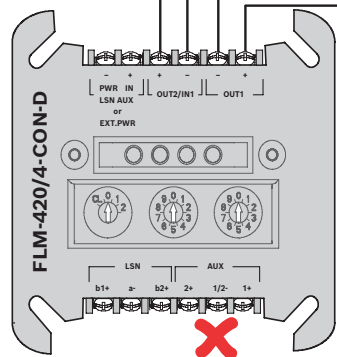


FCS-320-TP Series

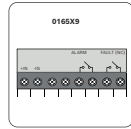


ELS

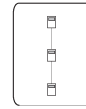
BCM-0000-B
LSN 0300 A
LSN 1500 A



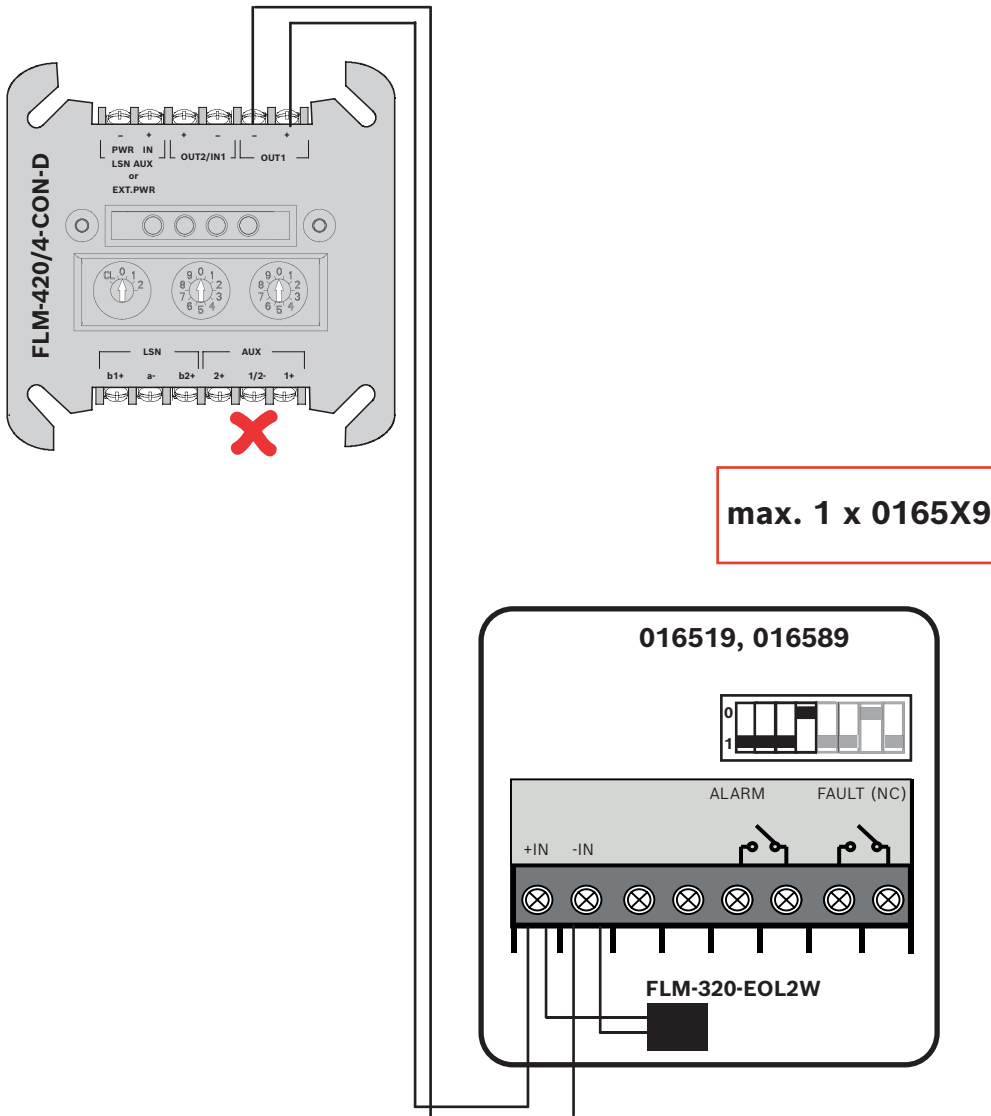
FCS-320-TP2

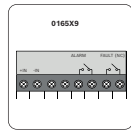


016519, 016589
IR3 Flame Detector

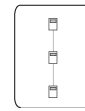


ELS

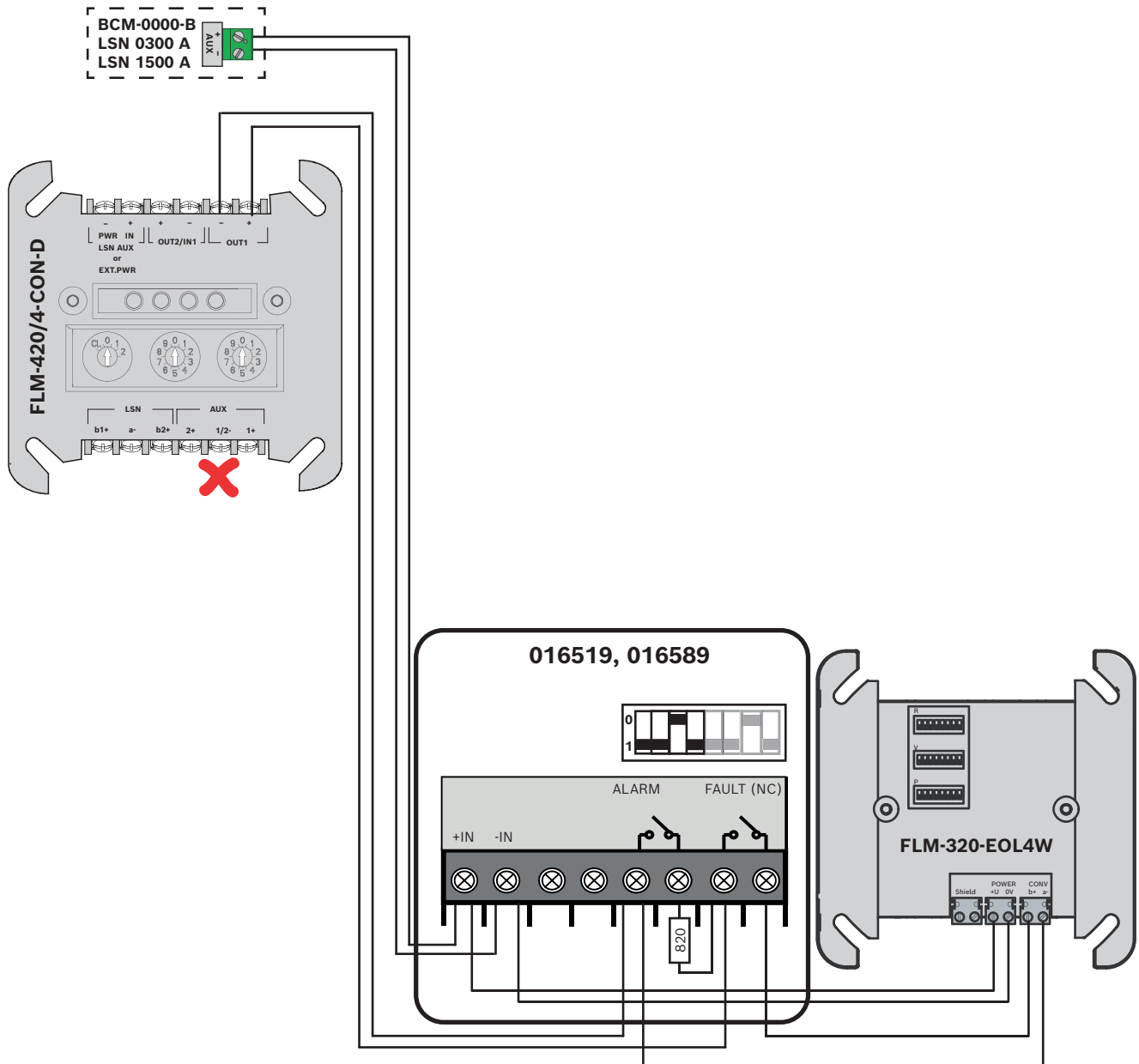




016519, 016589
IR3 Flame Detector

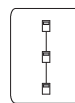


ELS

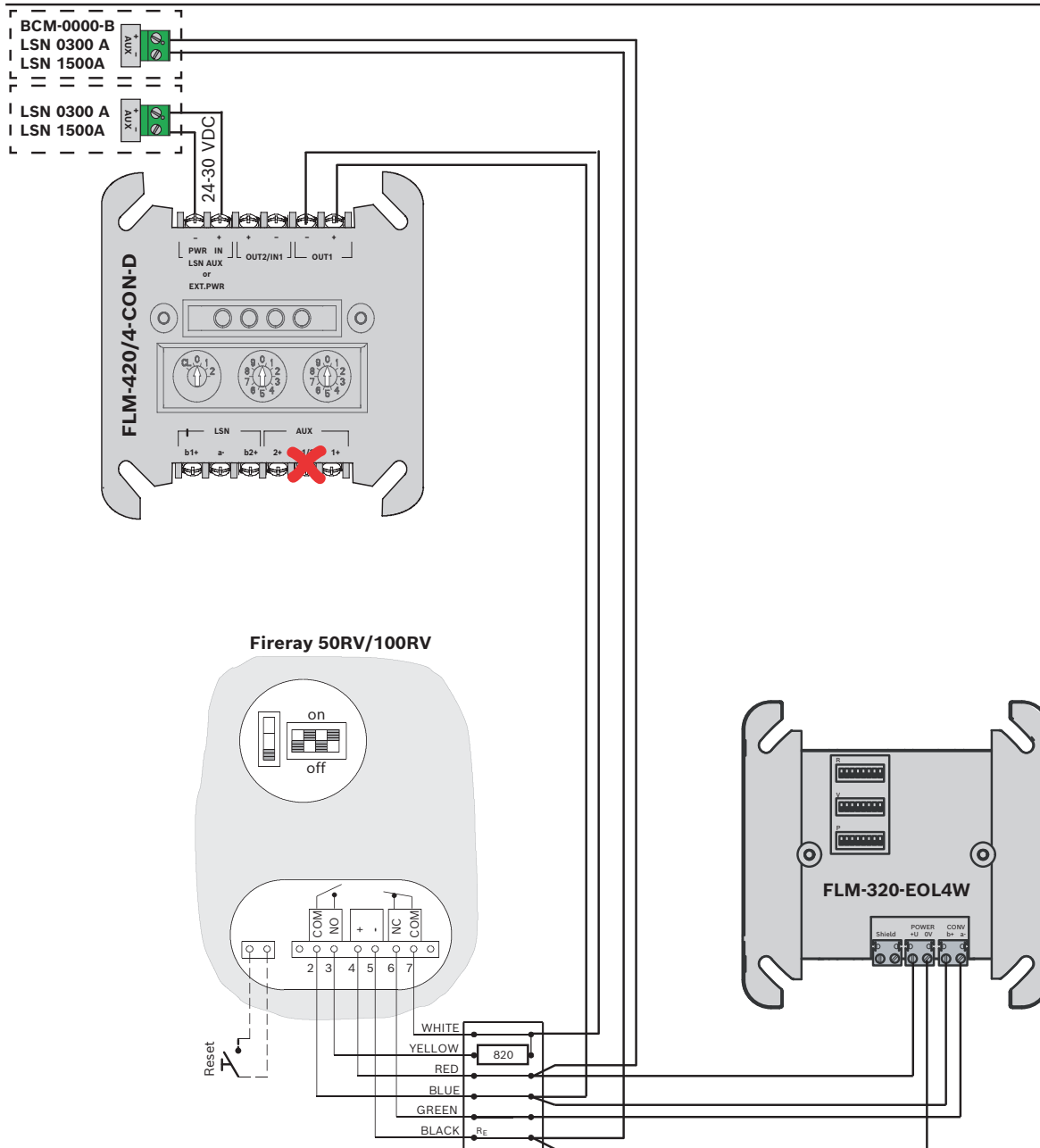




**Fireray 50RV
Fireray 100RV**



ELS



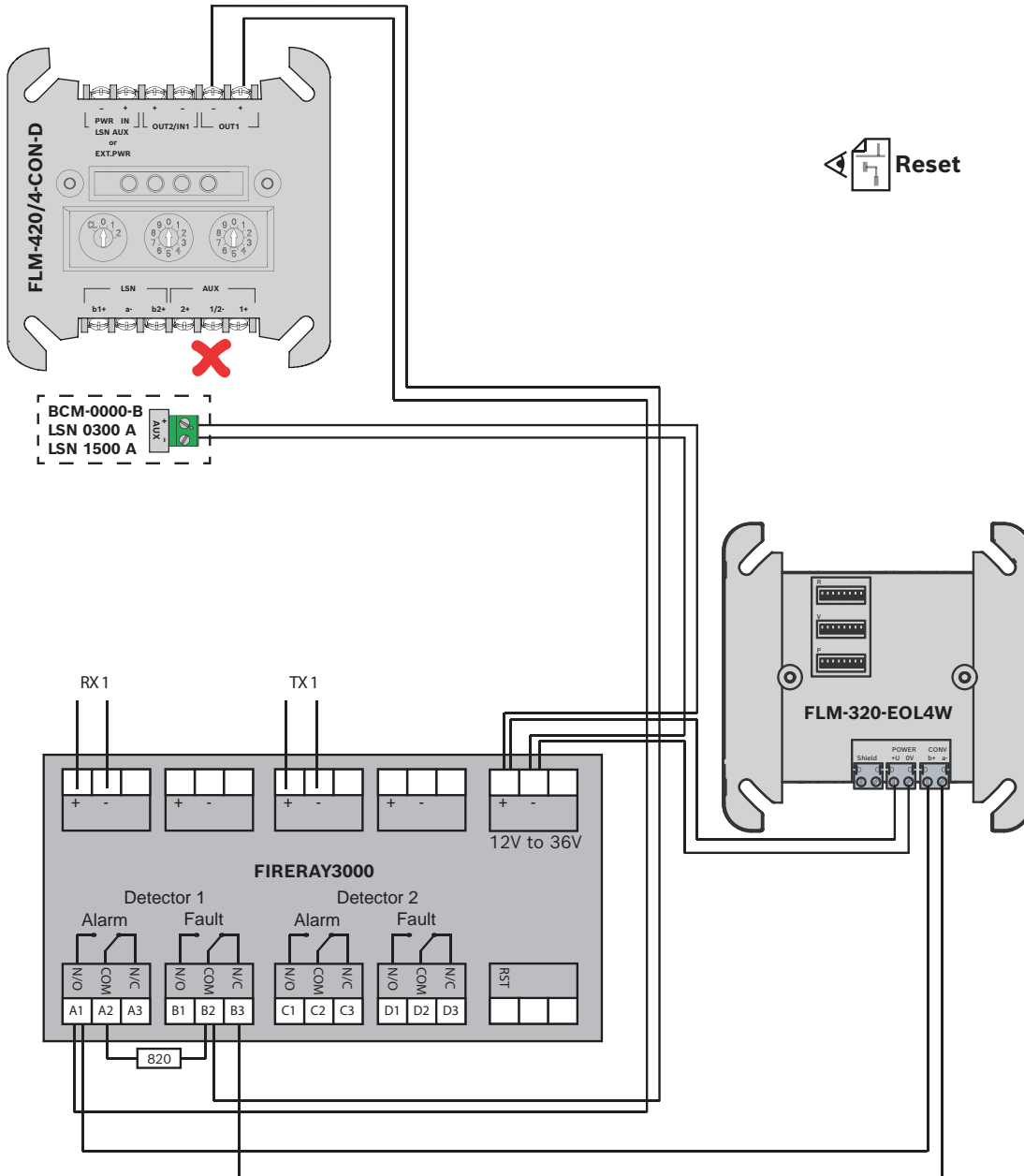


FIRERAY3000

1 x



ELS

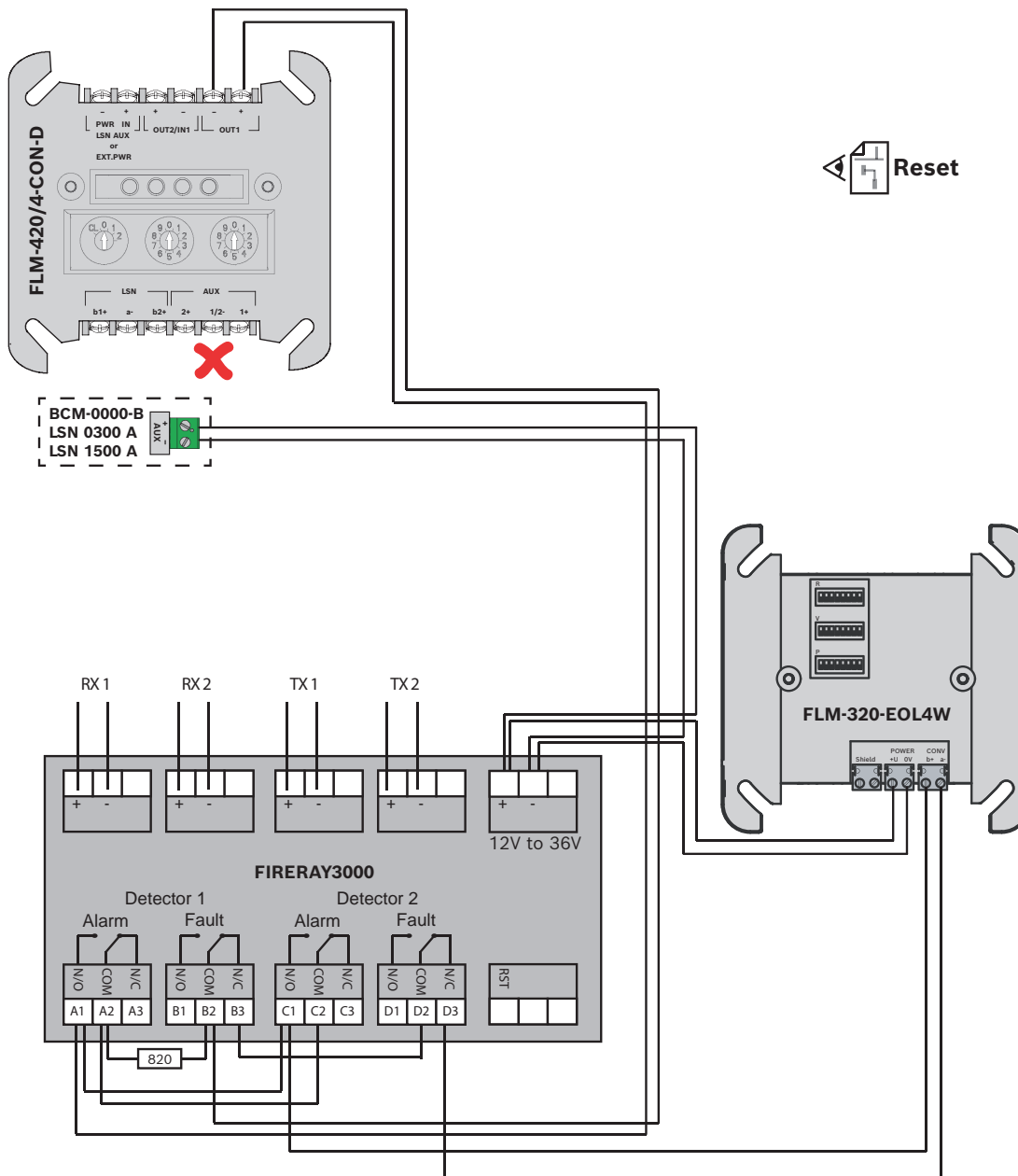




FIRERAY3000
2 x   **OUT1**



ELS



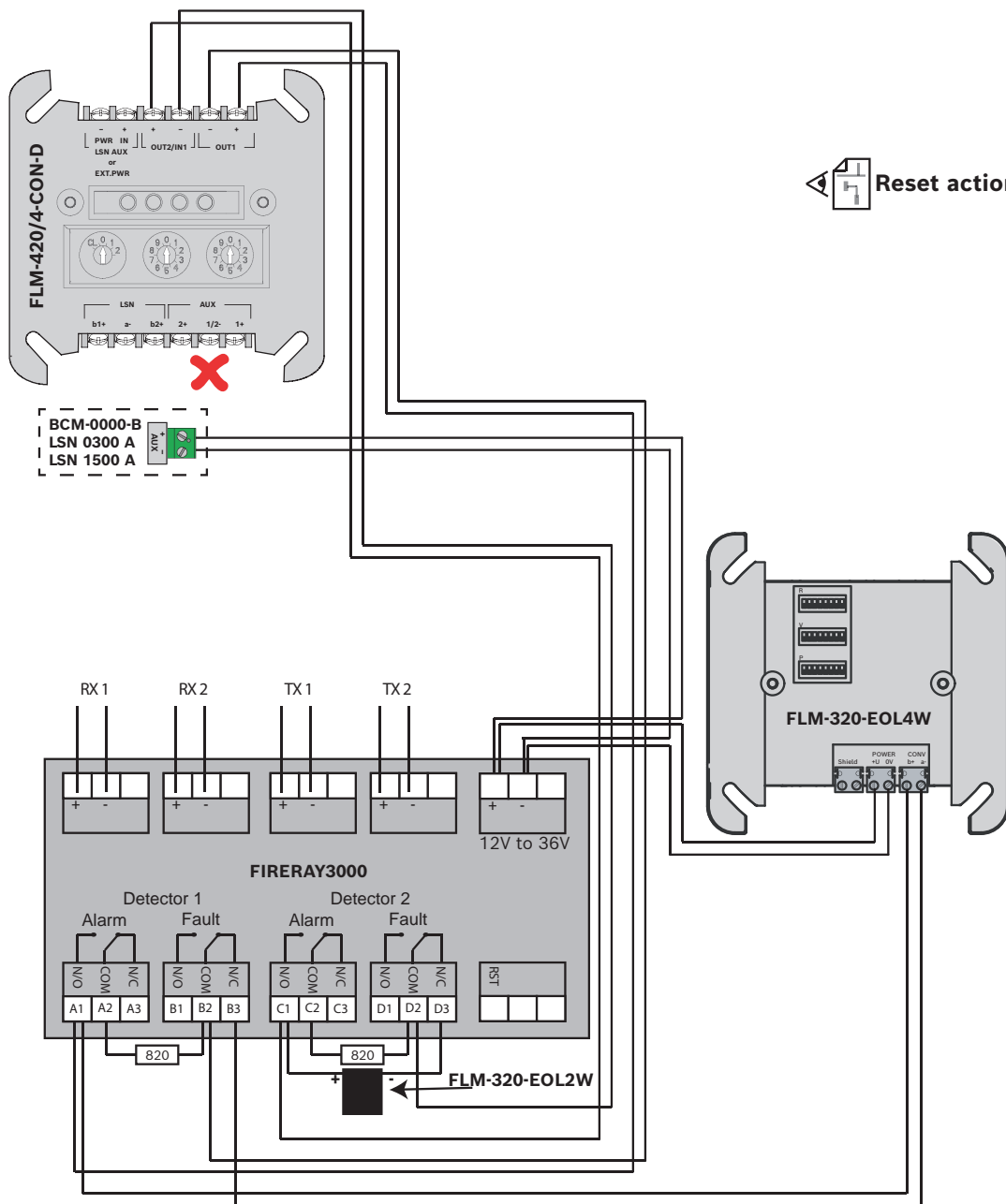


FIRERAY3000

2 x **OUT1+2**



ELS



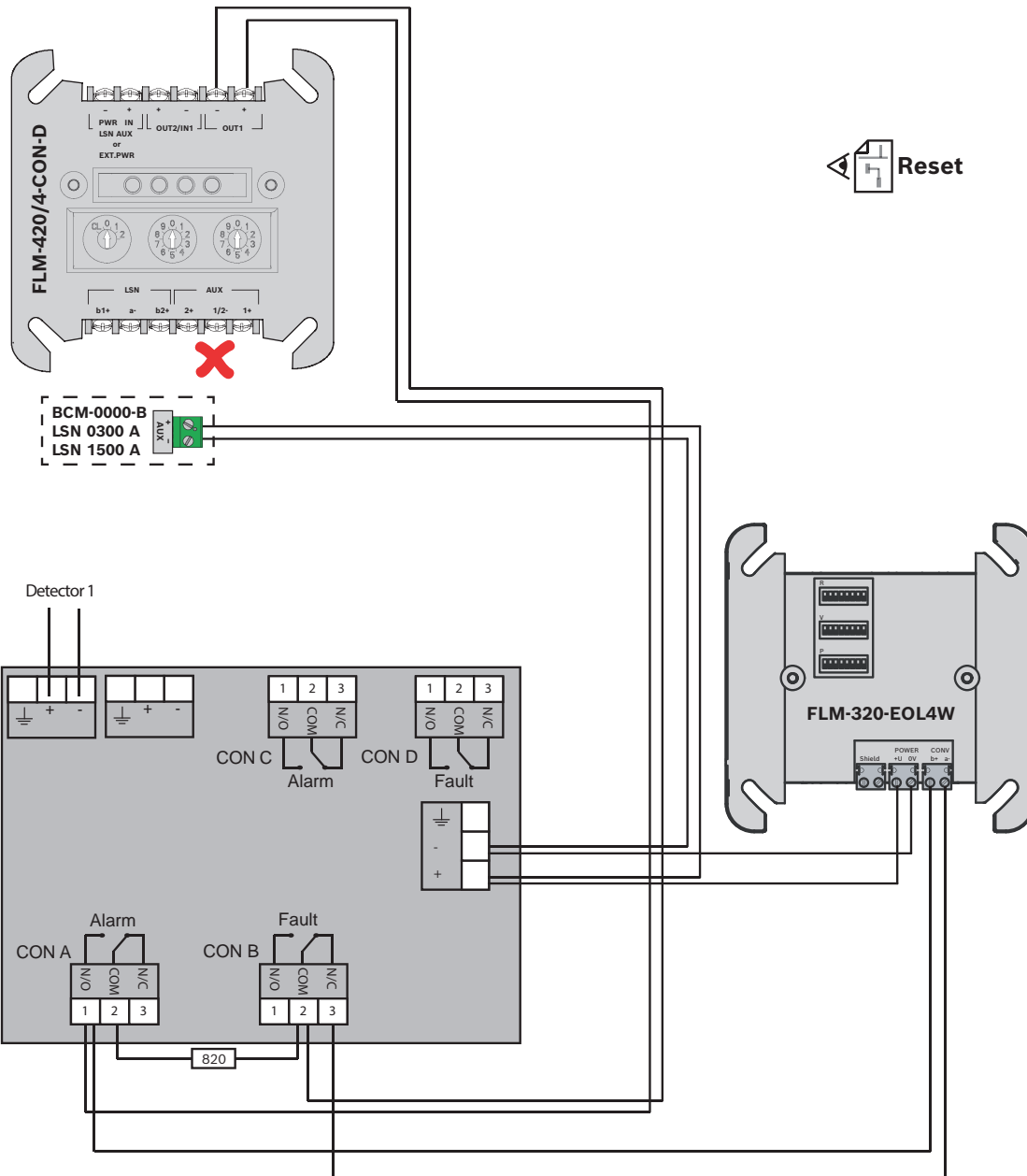


FIRERAY5000

1 x 



ELS



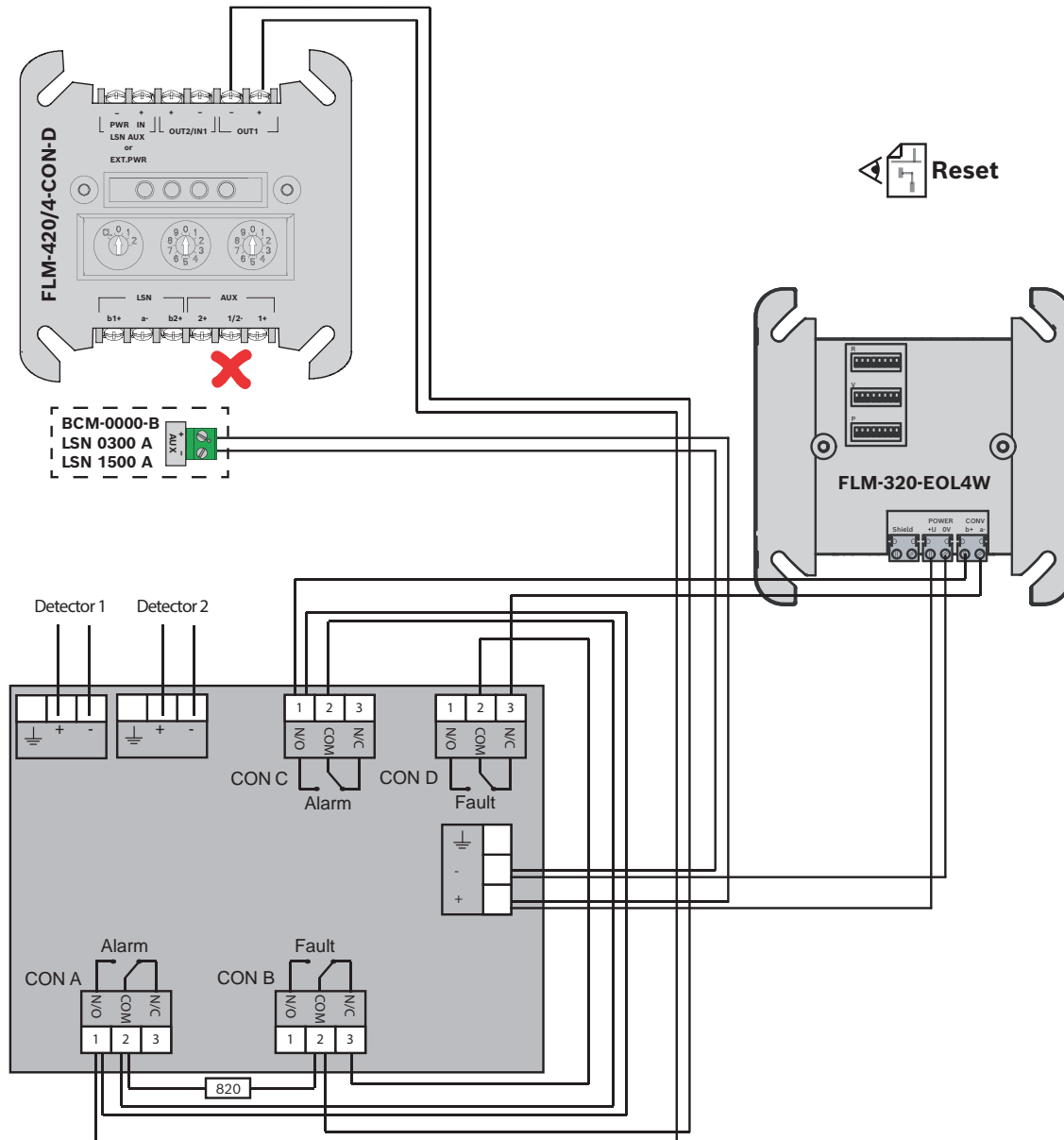


FIRERAY5000

2 x OUT1

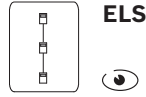


ELS



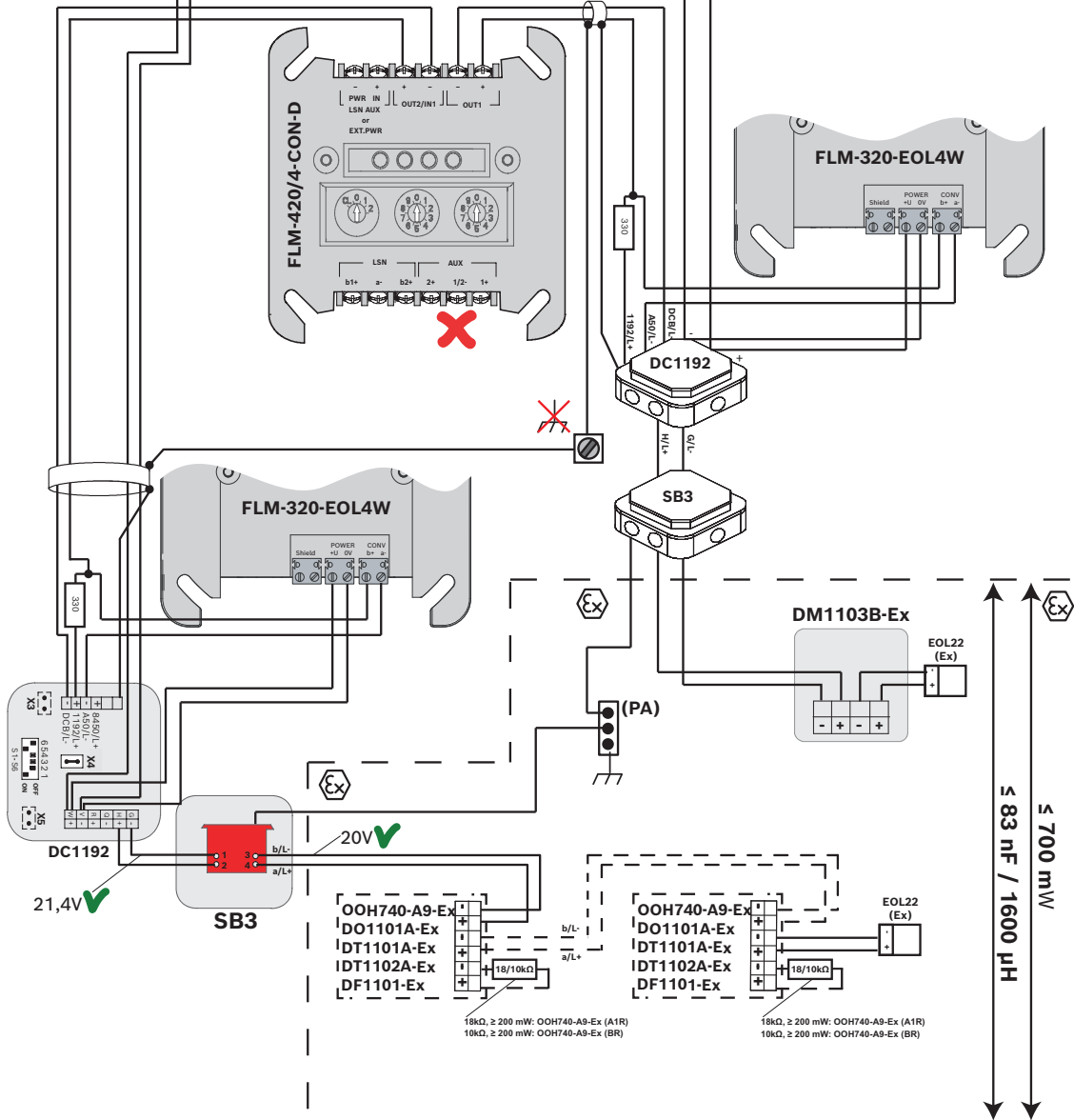


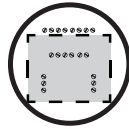
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



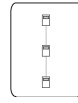
BCM-0000-B
 LSN 0300 A
 LSN 1500 A

BCM-0000-B
 LSN 0300 A
 LSN 1500 A

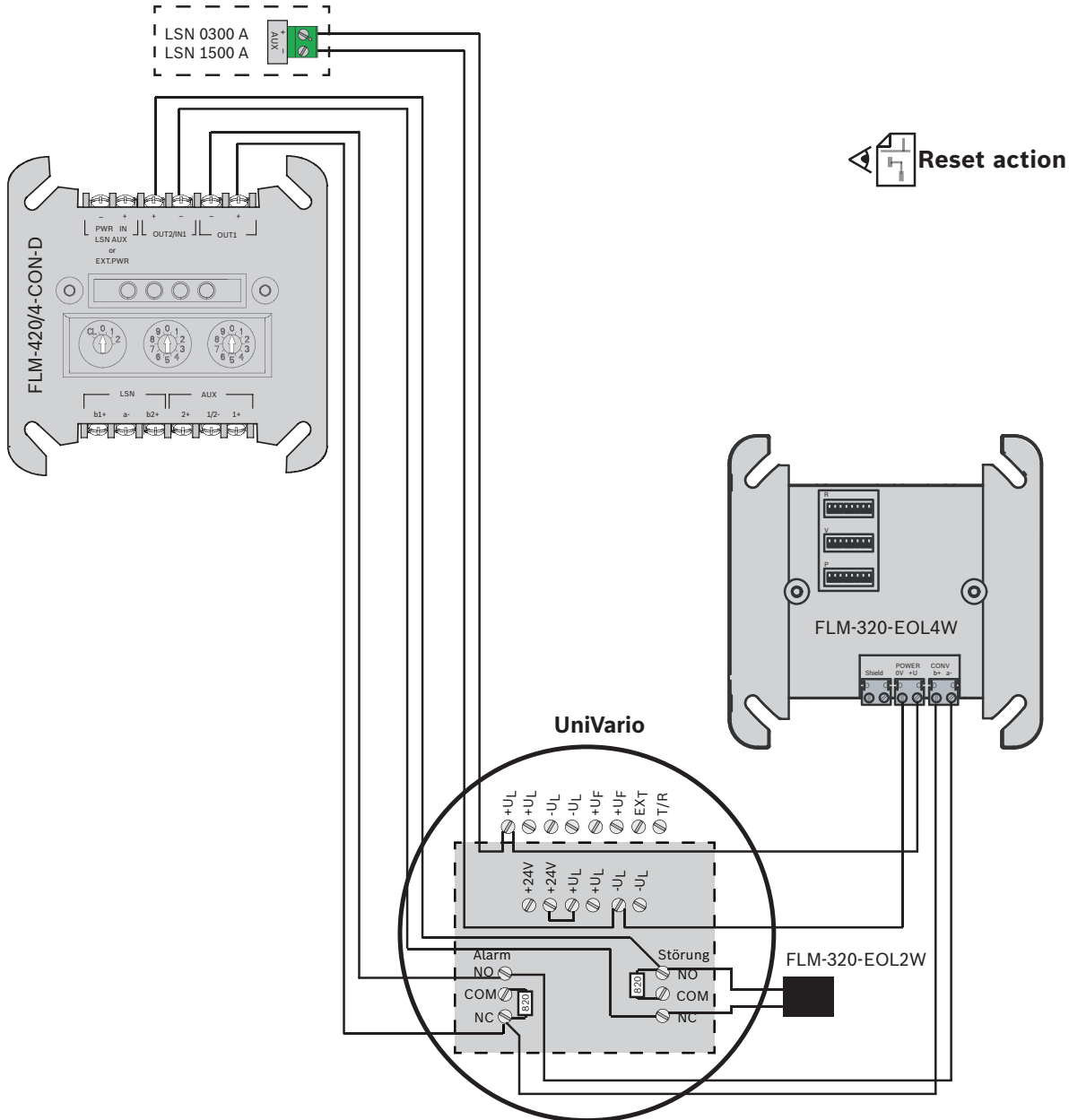




UniVario WMX5000
 UniVario FMX5000
 UniVario KMX5000



ELS



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FCS-320-TP2	56	FLM-420/4-CON-D	149, 150
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		BTS 80 EMB -> FLM-420-RHV	29, 30
		BTS 80 FLB -> FAA-MSR 420	19, 20
		BTS 80 FLB -> FLM-420-RHV	29, 30
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		ED 250 -> FAA-MSR-420	15, 16
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		GT 50 R -> FLM-420-RHV	27, 28
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