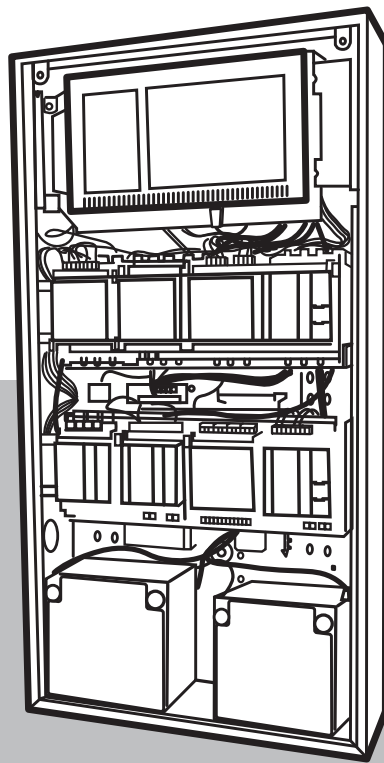


AVENAR panel series



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1 Opmerkingen

1.1 Inhoud

Deze bedradingshandleiding laat zien hoe de randapparatuur in principe wordt aangesloten op de BMC. Er wordt geen rekening gehouden met nationale en lokale voorschriften. De toepassing van nationale en lokale vereisten kan leiden tot verdere aansluitingen.

**Opmerking!**

De beschreven aansluitingen zijn tevens van toepassing op AVENAR panel 2000, mits de afzonderlijke componenten door Bosch Sicherheitssysteme GmbH goedgekeurde uitbreidingen van AVENAR panel 2000 zijn.

**Opmerking!**

De LSN 0300 A-aansluitingen die in dit document worden beschreven, hebben ook betrekking op de module LSN 1500 A.

Neem in overweging dat voor de LSN 1500 A-module dat voor installaties in Duitsland, waar compliance met VdS 2540 verplicht is, de AUX-lijn en de LSN-lijn in afzonderlijke kabels moeten lopen.

1.2 Productinformatie

- Lees de meegeleverde installatiehandleiding voor installatie-instructies bij de afzonderlijke componenten van de brandmeldcentrale.
- Meer informatie (Gebruikershandleidingen, Netwerkhandleiding, systeeminformatie) is beschikbaar op internet via: www.boschsecurity.com

1.3 Belangrijke opmerkingen

- Gebruik uitsluitend installatiemateriaal dat door Bosch Security Systems wordt aanbevolen.
- Draag bij soldeerwerk altijd een aardingspolsband.
- Montage- en installatiewerkzaamheden mogen uitsluitend worden uitgevoerd door gekwalificeerd personeel.
- Houd rekening met aansluitvoorschriften van regionale overheden/instellingen.



Gevaar!

Het aanraken van spanningvoerende onderdelen kan fataal zijn.
Sluit de spanningstoevoer af voordat u gaat installeren.

Afgeschermd kabel

Voor alle tweedraadsverbindingen met CZM 0004 A en voor het aansluiten van de volgende producten is een afgeschermd kabel nodig:

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

De onderstaande voorbeeldbedrading laat zien hoe een afgeschermd kabel moet worden aangebracht.



Opmerking!

Volg de LSN-specificaties als een afgeschermd kabel voor de LSN-kabel moet worden aangesloten.

- LSN-kabelafscherming aan centralezijde aansluiten op aangewezen functionele aardingsconnector:

twee aansluitingen aan het begin en einde van een lus
een aansluiting aan het begin van een steeklijn

- Kabelafscherming doorlussen op alle LSN-randapparatuur met de meegeleverde klemmen
- Geen enkele extra aansluiting van LSN-kabelafscherming is toegestaan, niet op enige locatie op aardingsconnectoren en ook niet op andere elektrische potentialen.

1.4 Opmerkingen voor de gebruiker

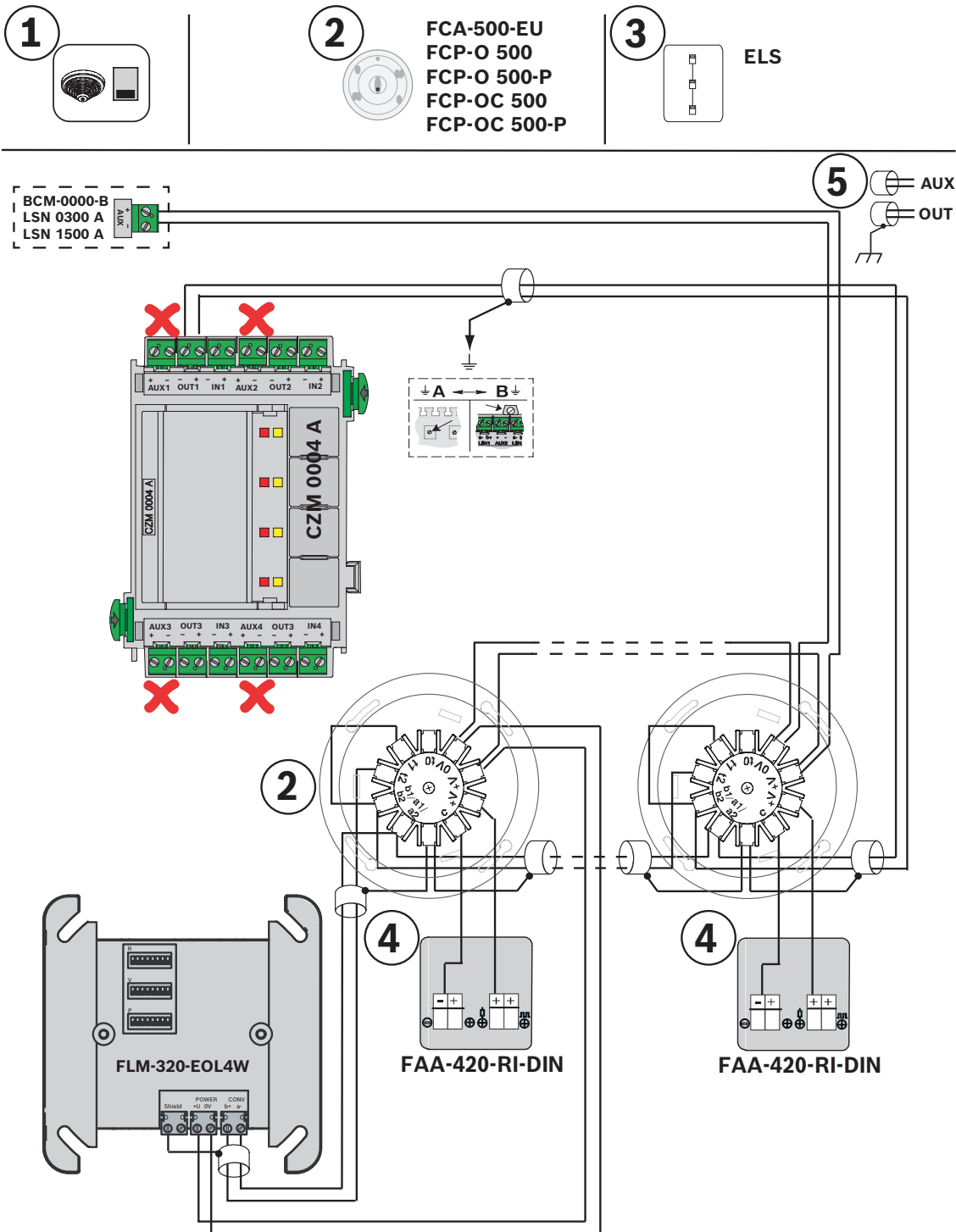
De bedradingshandleiding is als volgt samengesteld:

- Hoofdstuk Bekabeling is gesorteerd op het apparaat waarop een randapparaat is aangesloten. Een bedrading geeft de directe verbinding van een apparaat met een ander apparaat aan (geen trapsgewijze verbindingen).
- Zoek een verzameling met alle bedradingen waaraan extra EOL-modules zijn toegevoegd voor bewaking van onderbreking door lekstroom in het gedeelte EOL.

Maak tevens gebruik van de volgende bronnen om de vereiste bedrading te vinden:













- de inhoudsopgave aan het begin van het hoofdstuk Bekabeling en aan het begin van de gedeelten Functionele modules, Interfacemodules en EOL.
- de Index (taalonafhankelijk)
- en de zoekfunctie in volledige tekst.

Zie het bekabelingsvoorbeeld hieronder:

















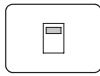
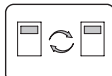

1	Hoofdstukpictogrammen (<i>Hoofdstukpictogrammen, pagina 7</i>)
2	Aan te sluiten randapparaat
3	Aansluitingspictogrammen (<i>Aansluitingspictogrammen, pagina 7</i>)
4	Optionele componenten
5	Voeding en bekabeling (<i>Voeding en bekabeling, pagina 8</i>)

1.4.1 Hoofdstukpictogrammen

	Automatische melders		Bedienings- en weergavepanelen		Printer
	Voeding		Functionele modules		Brandweer serviceapparatuur
	Interfacemodules		Brandblussystemen		Handbrandmelders
	Signaalgevers		Deursturing		Transmissie-eenheden

1.4.2 Aansluitingspictogrammen

	Verplichte bedrading		Optionele bedrading		Niet toegestaan
	Redundantie		Lusbedrading		Lusbedrading met redundant element
	Steeklijnbedrading		Redundante steeklijnbedrading		Steeklijnbedrading met redundant element
	Redundante steeklijnbedrading met redundant element	ELS	Deze bedrading voldoet aan VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS staat voor Extended Line Supervision (uitgebreide lijnbewaking), hetgeen wil zeggen bewaking van kortsluiting en onderbreking door lekstroom. Deze bedrading beschikt over ELS. Door de volgende modules wordt kortsluiting herkend: LSN 0300 A, LSN 1500 A en BCM-0000-B bij gebruik van FPP-5000-TI13.		Deze lusbedrading is conform VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. De bedrading biedt ELS. Extra EOL-modules zijn niet nodig.
	Synchronisatie		Gebieden met explosiegevaar		Centrale

	Zelfstandige centrale		Zelfstandige centrale met redundantie		Voor meldersokkels: de bedrading is alleen geldig voor de meldersokkel waarin de melder is geïnstalleerd.
EN 54-2, DIBT enzovoort	Indien conformiteit met deze norm is vereist, gebruikt u de gespecificeerde bedrading.				

1.4.3 Voeding en bekabeling

	Kabel, 2-draads is vereist.
	Afgeschermd kabel, 2-draads is vereist.
	De behuizing van het product met de voeding moet verzonken met het element worden gemonteerd.
	Voor de interfacemodule is inbouwmontage vereist.
 Reset action	Zie de bedrading in deze handleiding. Voor het automatisch resetten van het apparaat moet u de resetactie uitvoeren.

1.5 Weerstandswaarden

De volgende tabel geeft een overzicht van de kleurcodering van de weerstanden. De metaalfilmweerstand die met het product zijn meegeleverd, hebben 5 kleurbanden die de weerstandswaarde aanduiden.

Kleur	1. band	2. band	3. band	4. band (vermenigvuldigingsfactor)	5. band (tolerantie)
Zilver				10^{-2}	$\pm 10\%$
Goud				10^{-1}	$\pm 5\%$

Kleur	1. band	2. band	3. band	4. band (vermenigvuldigingsfactor)	5. band (tolerantie)
Zwart		0	0	10 ⁰	
Bruin	1	1	1	10 ¹	±1%
Rood	2	2	2	10 ²	±2%
Oranje	3	3	3	10 ³	±0.05%
Geel	4	4	4	10 ⁴	±0.02%
Groen	5	5	5	10 ⁵	±0.5%
Blauw	6	6	6	10 ⁶	±0.25%
Paars	7	7	7	10 ⁷	±0.1%
Grijs	8	8	8	10 ⁸	±0.01%
Wit	9	9	9	10 ⁹	

Conform DIN EN 60062:2017

Oranje — wit — zwart — bruin — bruin: 3,9 kOhm weerstand met 1% tolerantie,

Rood — rood — zwart — bruin — bruin: 2,2 kOhm weerstand met 1% tolerantie.

2 Wiring



FPP-5000 Power supply, pagina 11

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

DIBT, pagina 15

Functional Modules, pagina 42

BCM-000-B, pagina 43

CZM 0004 A, pagina 45

ENO 0000 A/B, pagina 61

LSN 0300 A, pagina 68

NZM 0002 A, pagina 106

RMH 0002 A, pagina 119

IOS 0020 A, pagina 120

FPE-5000-UGM, pagina 122

Interface Modules, pagina 124

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

FLM-420-I8R1-S, pagina 158

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

FLM-420-RHV, pagina 172

FLM-420-RLE-S, pagina 184

FLM-420-RLV1-E, pagina 185

FLM-420-RLV8-S, pagina 186

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

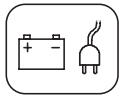
EOL, pagina 188

CZM 0004 A, pagina 189

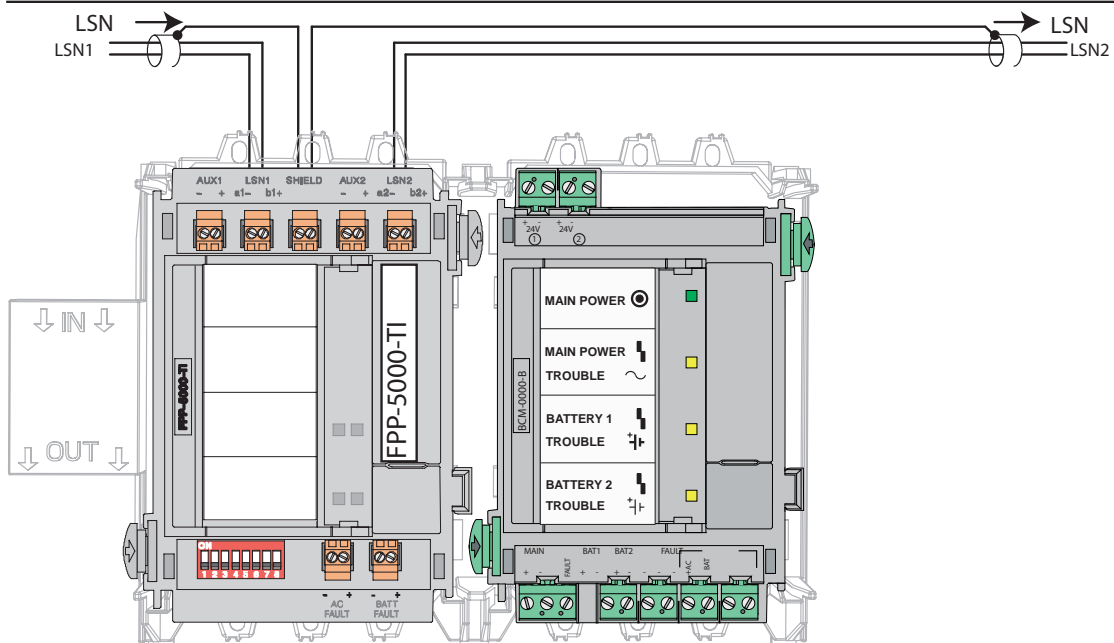
LSN 0300 A, pagina 201

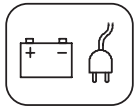
FLM-420/4-CON-S/D, pagina 246

2.1 FPP-5000 Power supply



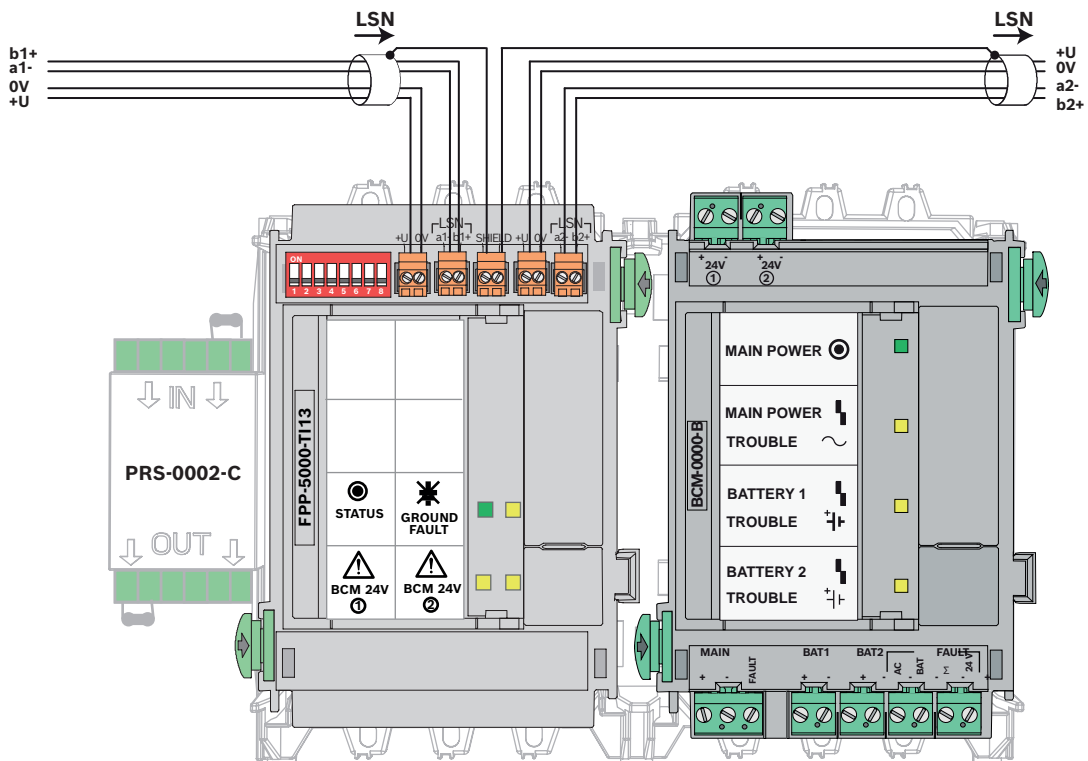
FPP-5000-TI



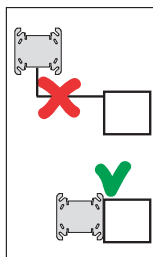
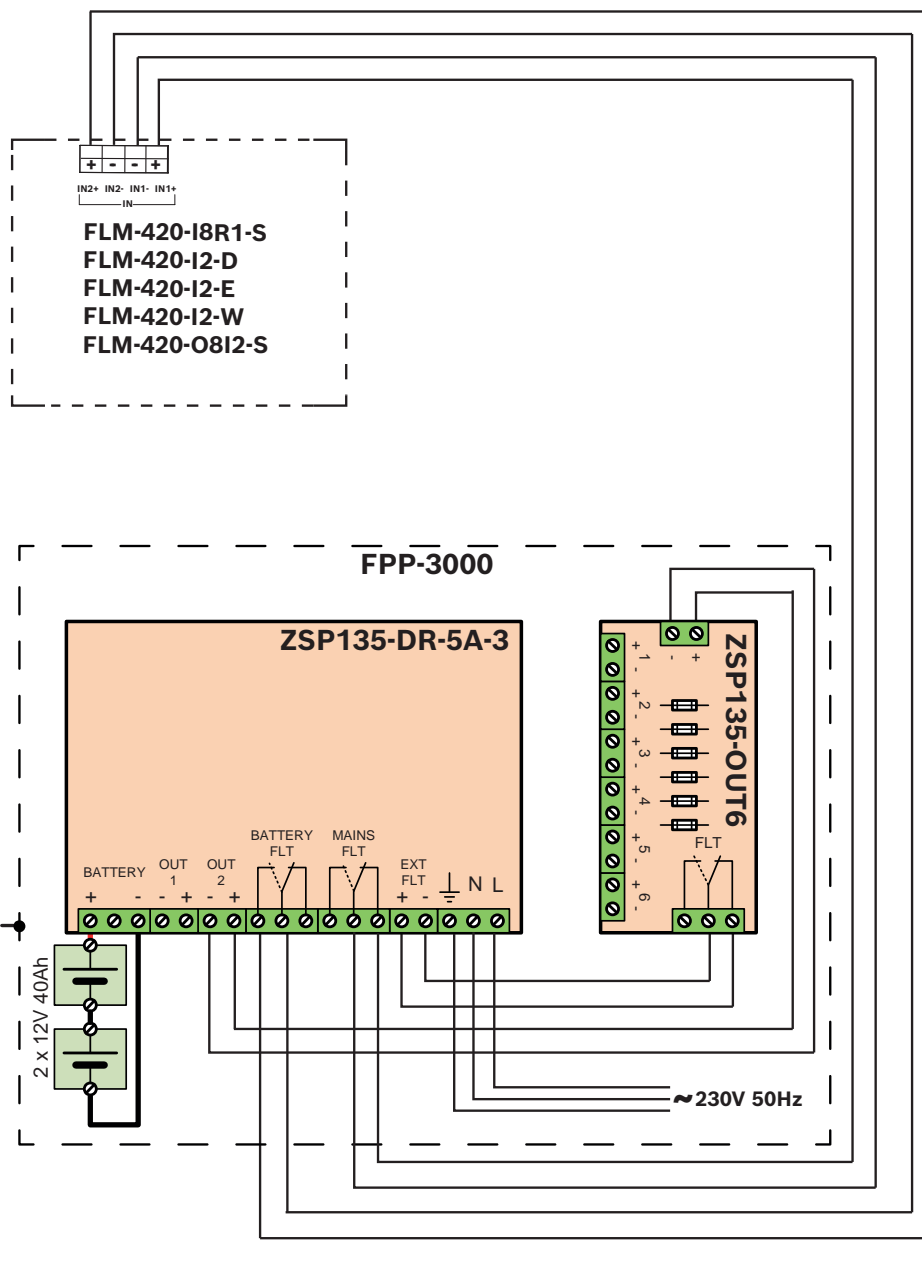
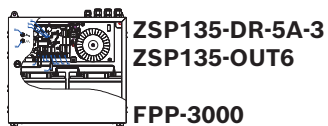
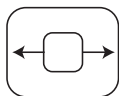


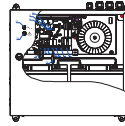
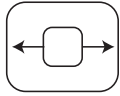
FPP-5000-TI13

ELS

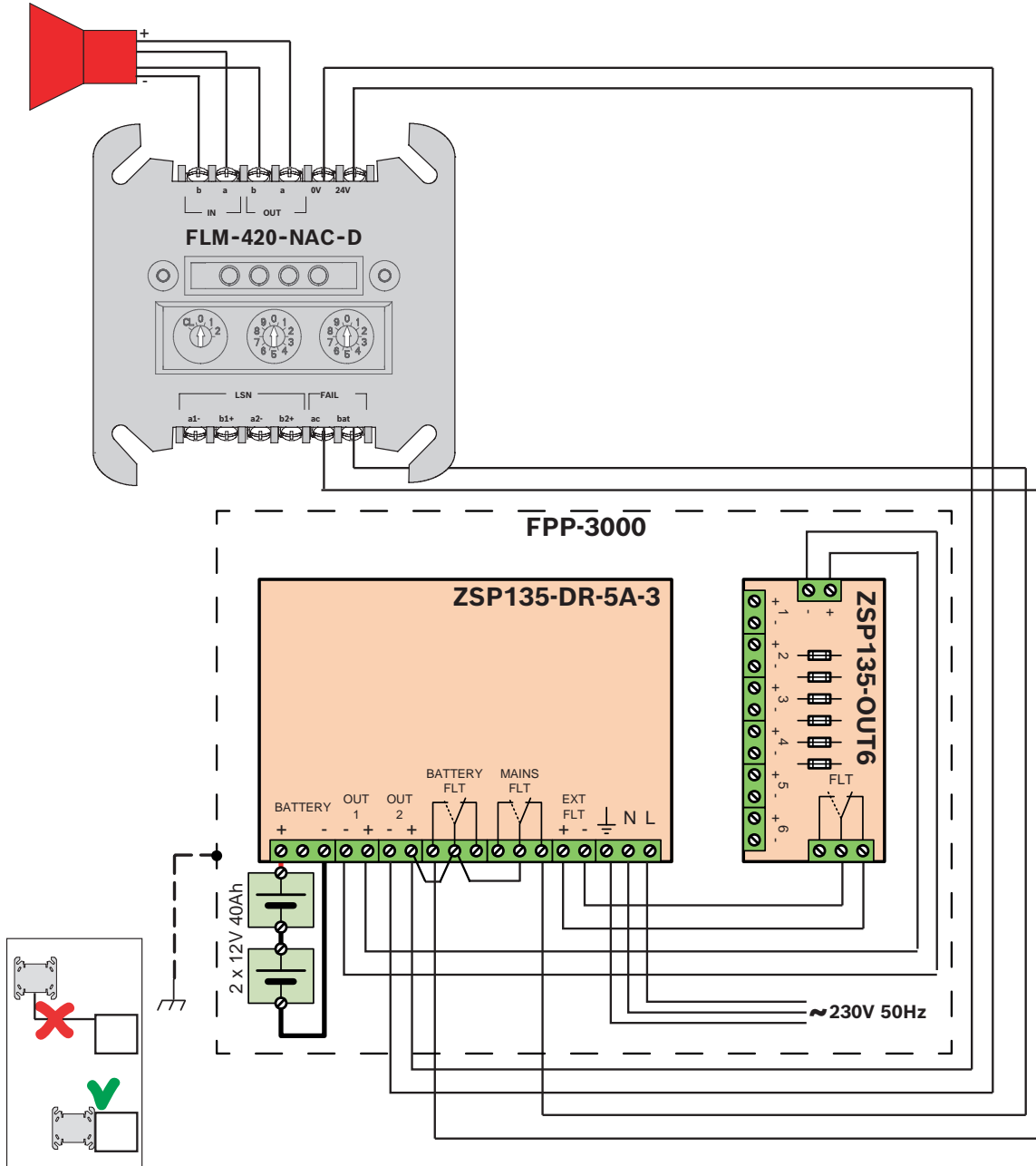


2.2 FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6)



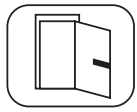


ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000



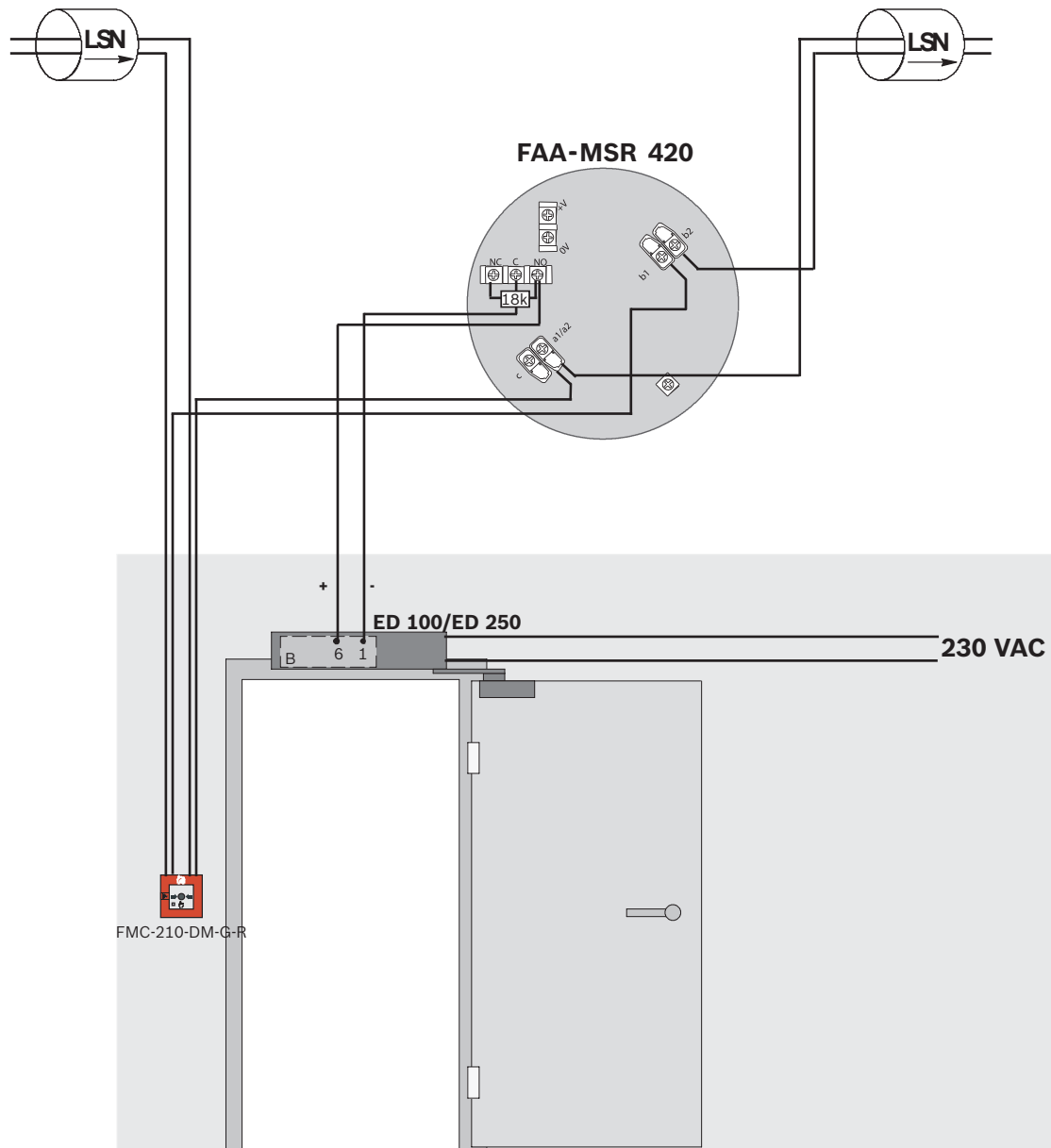
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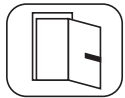
DIBT



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ED 250
(+Upgrade Card B)**

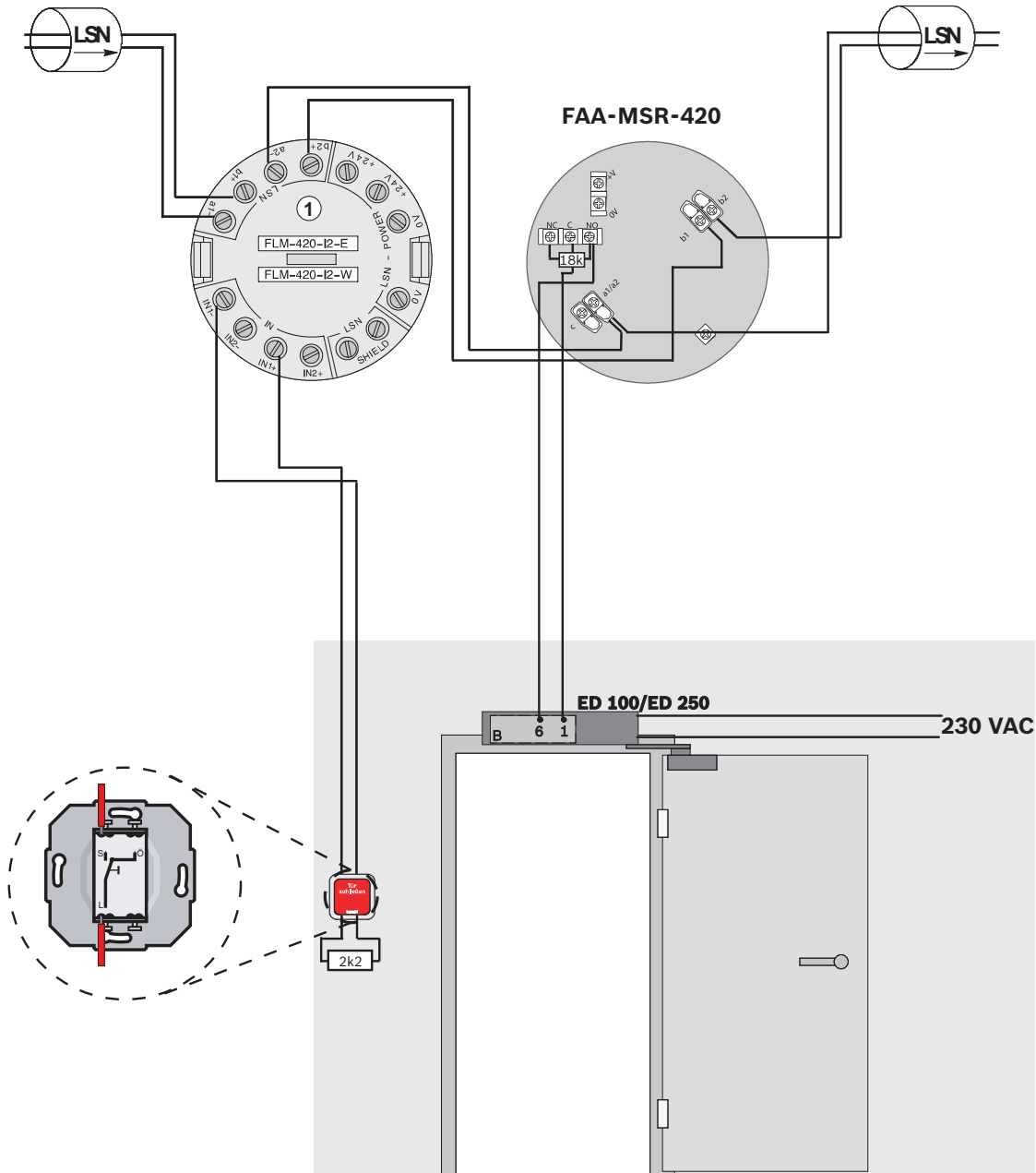
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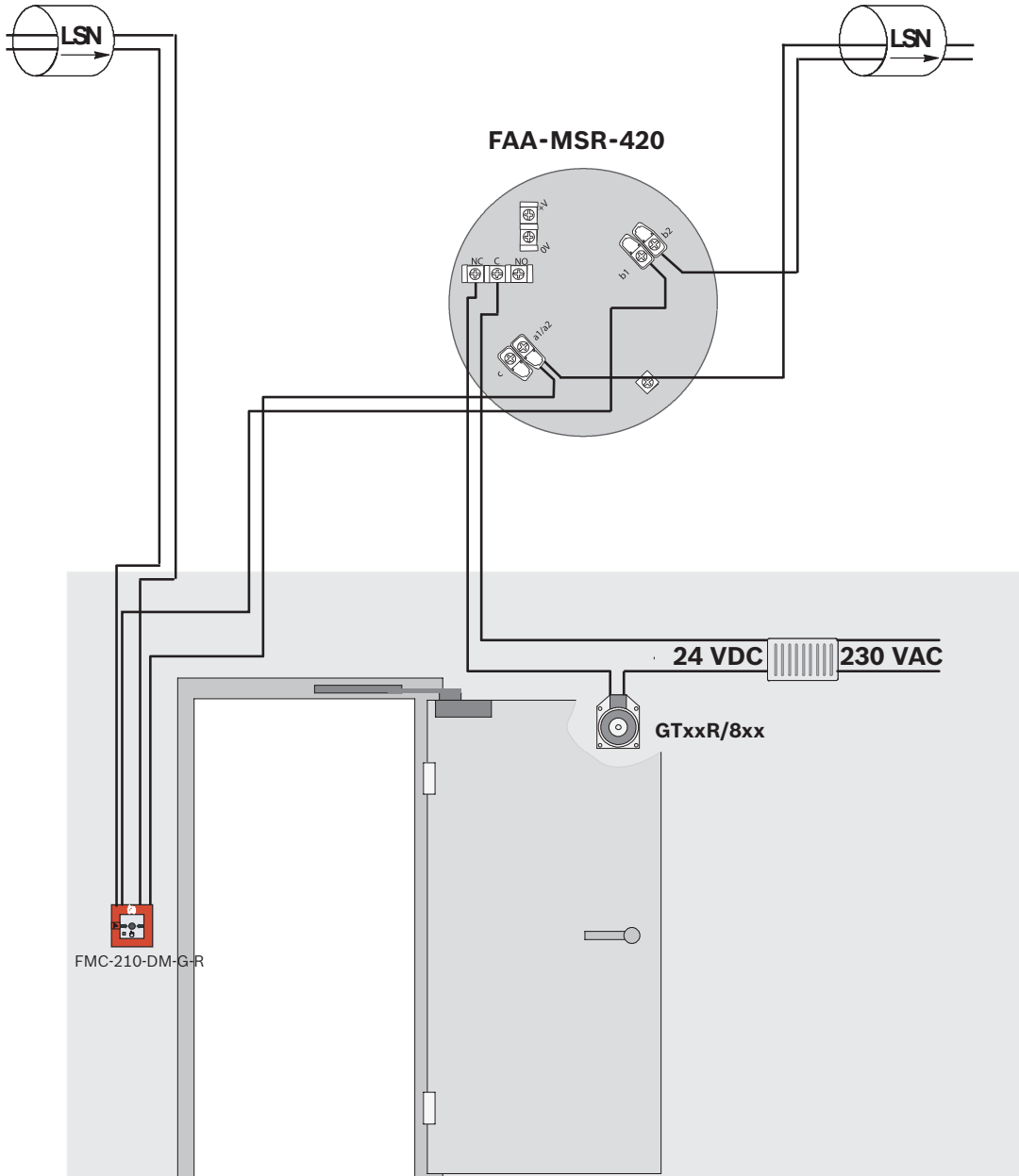
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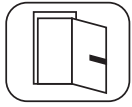
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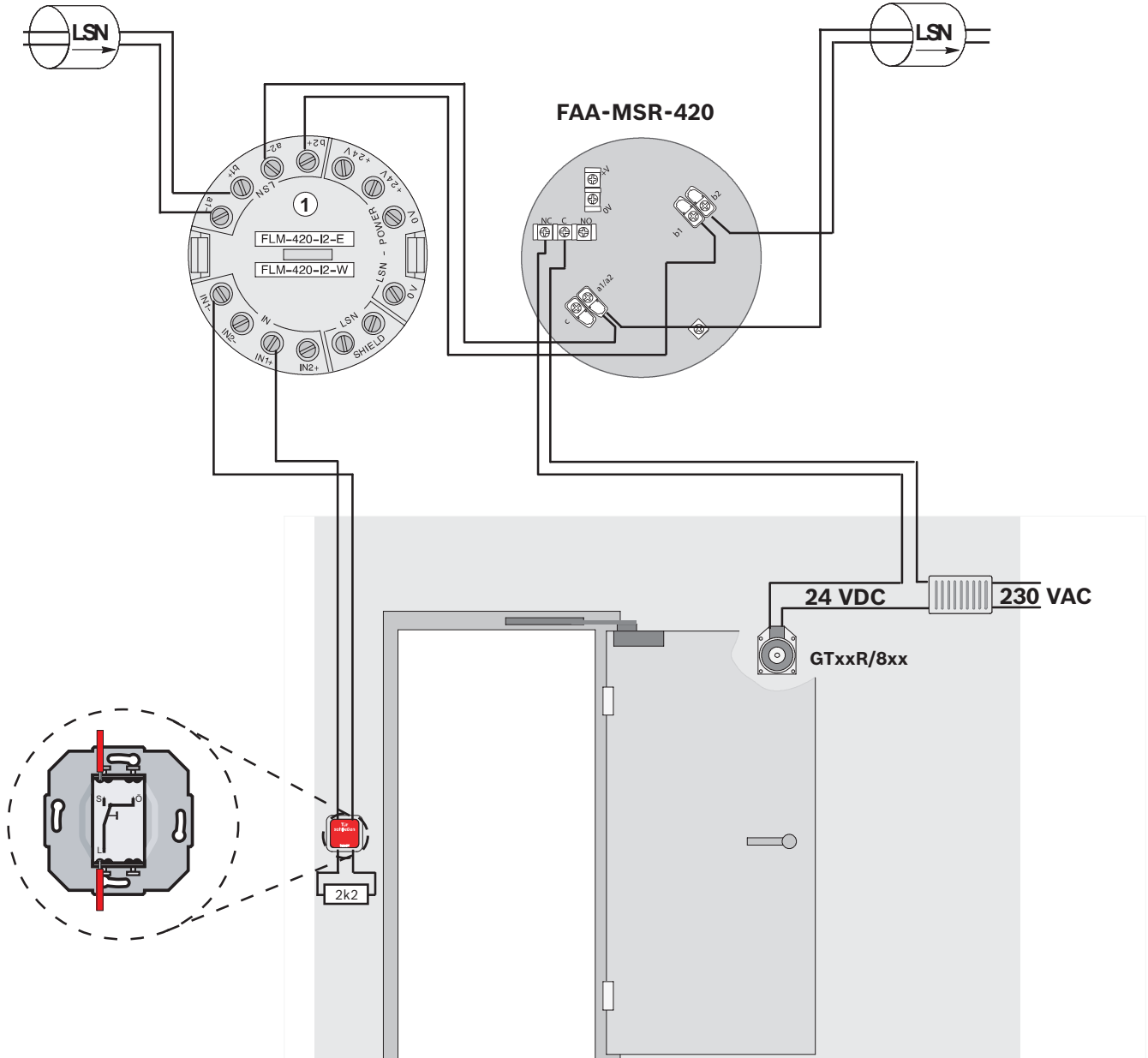


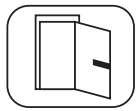
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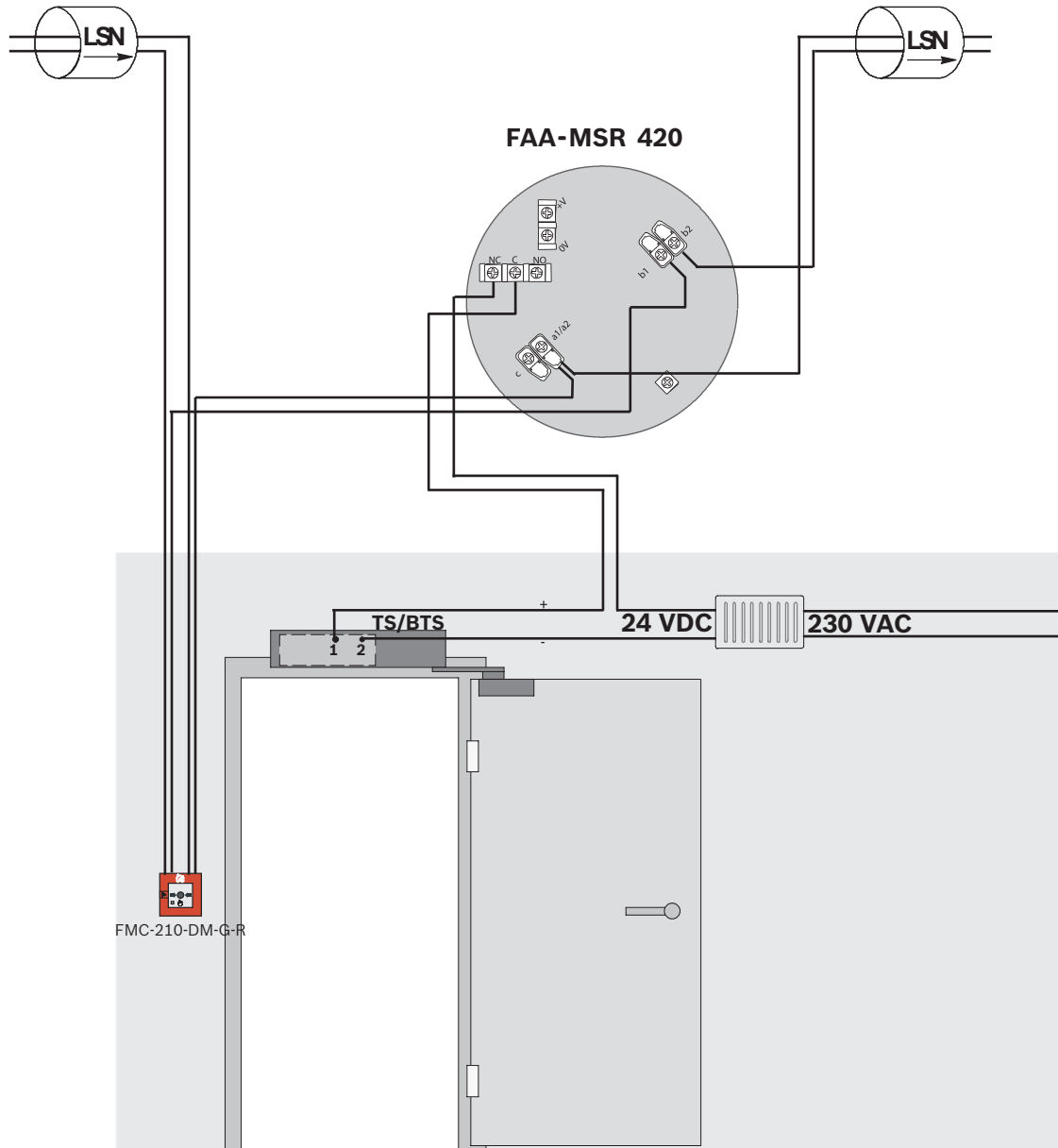
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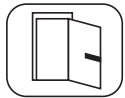




TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

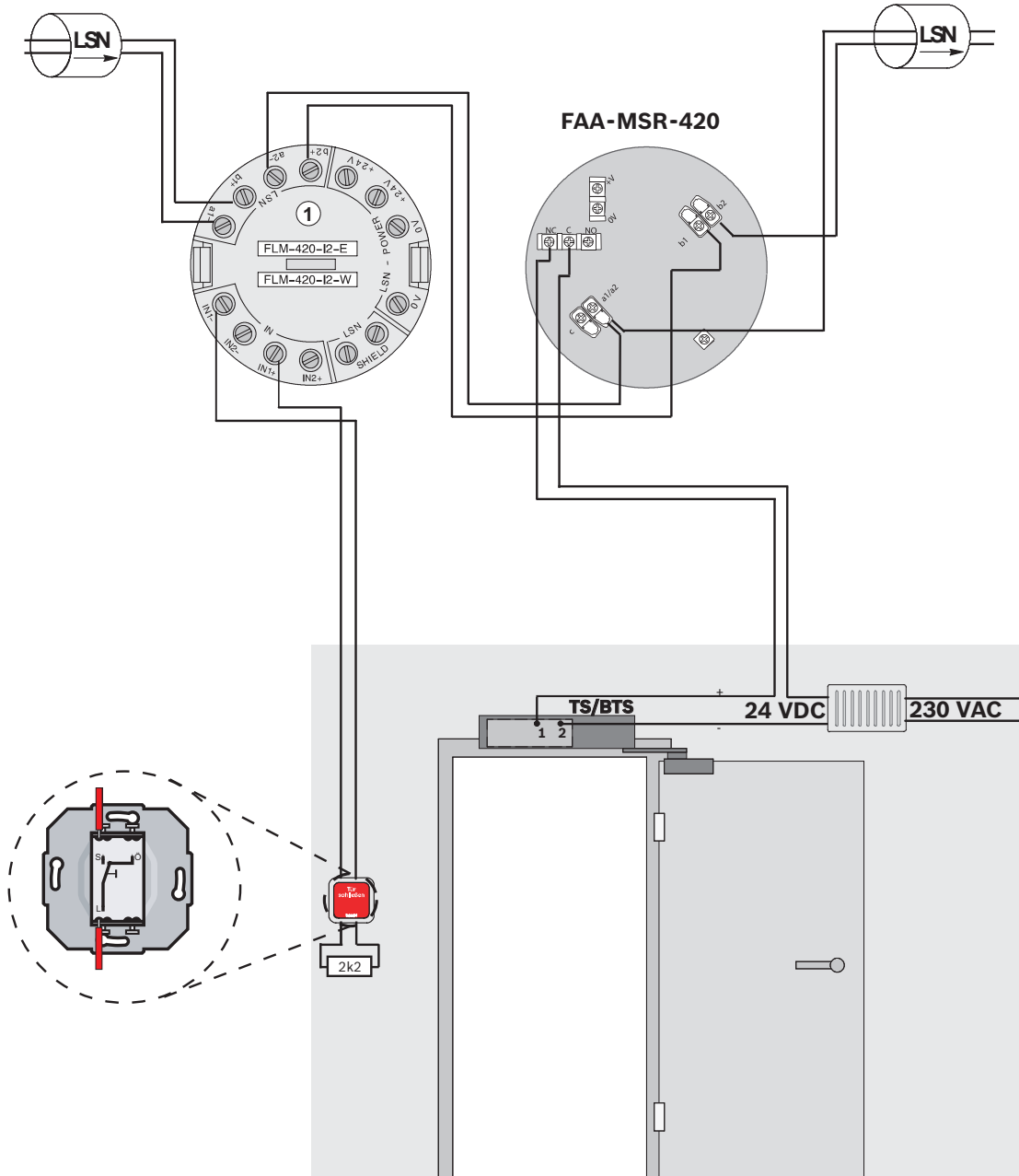
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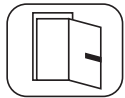




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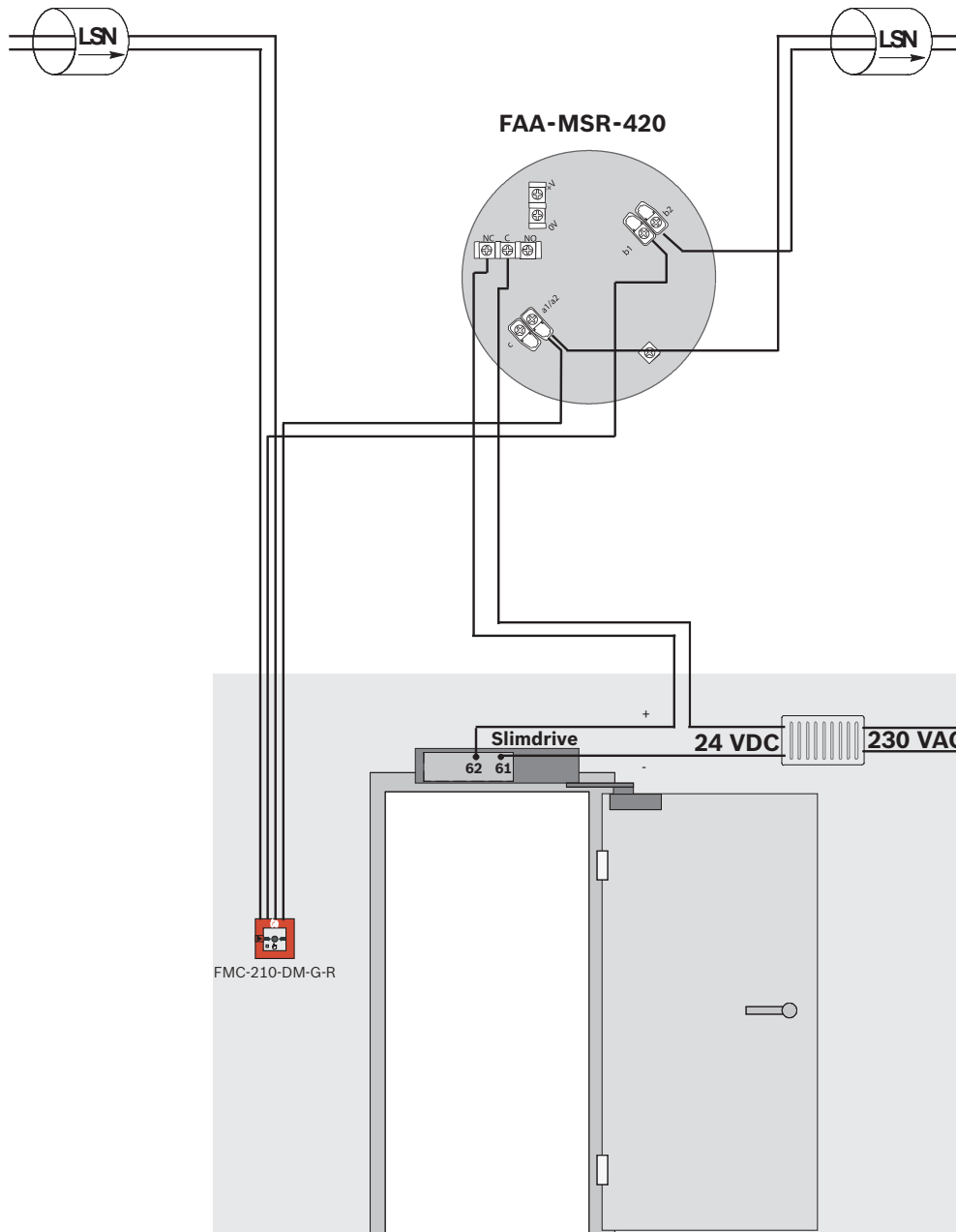
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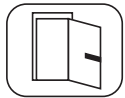




Slimdrive EMD-F/EMD F-IS

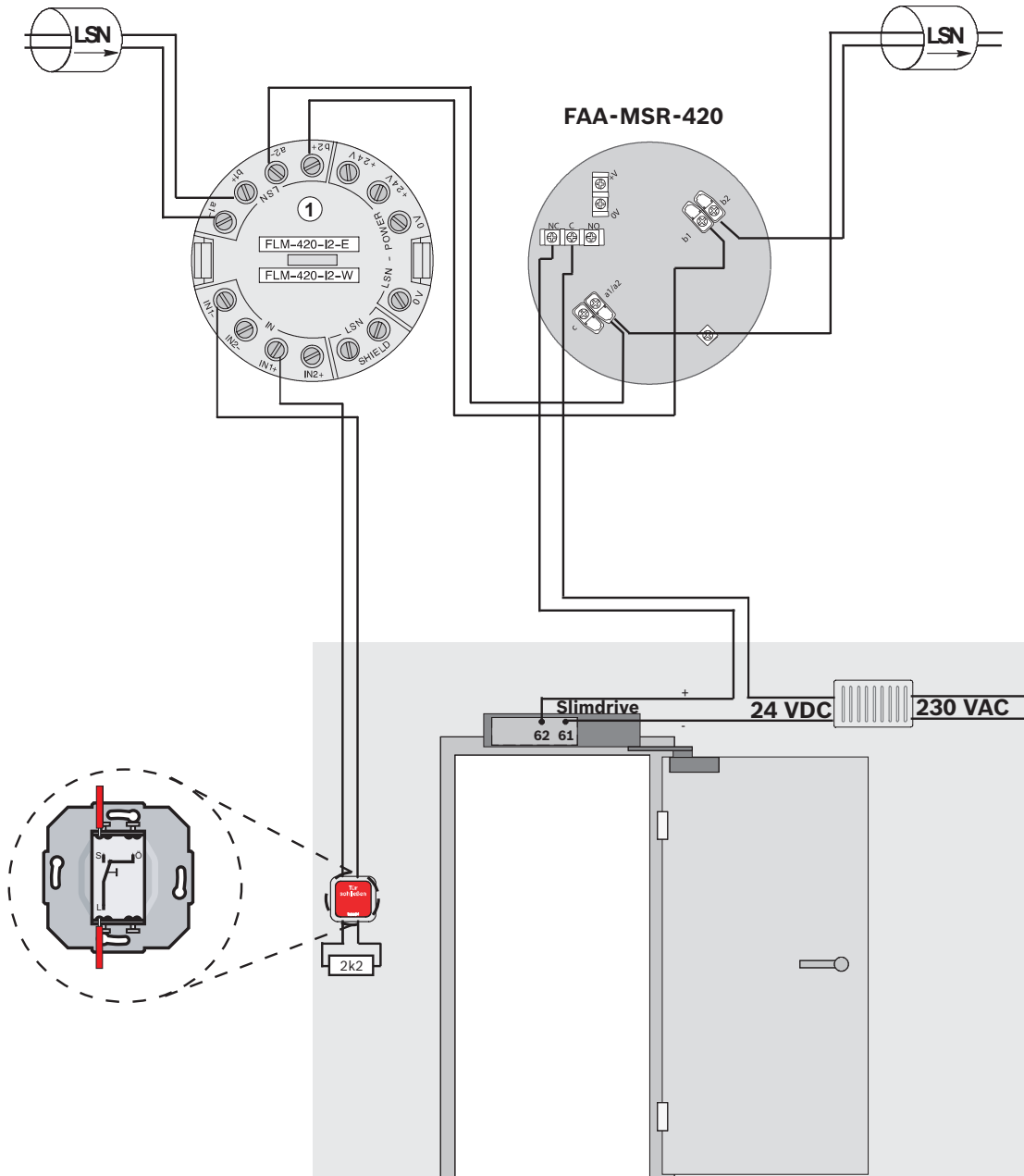
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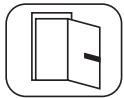




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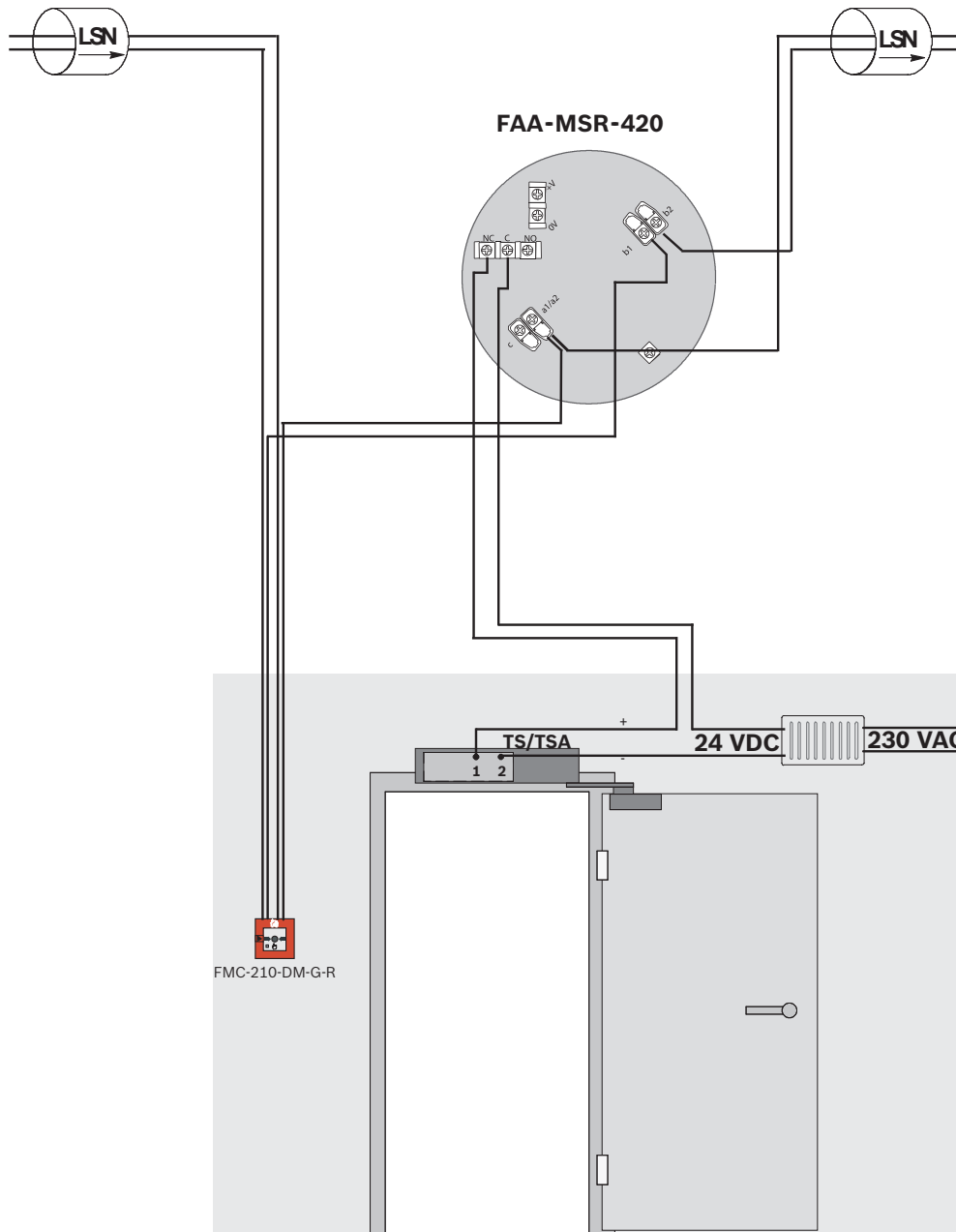
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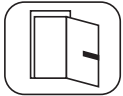




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 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

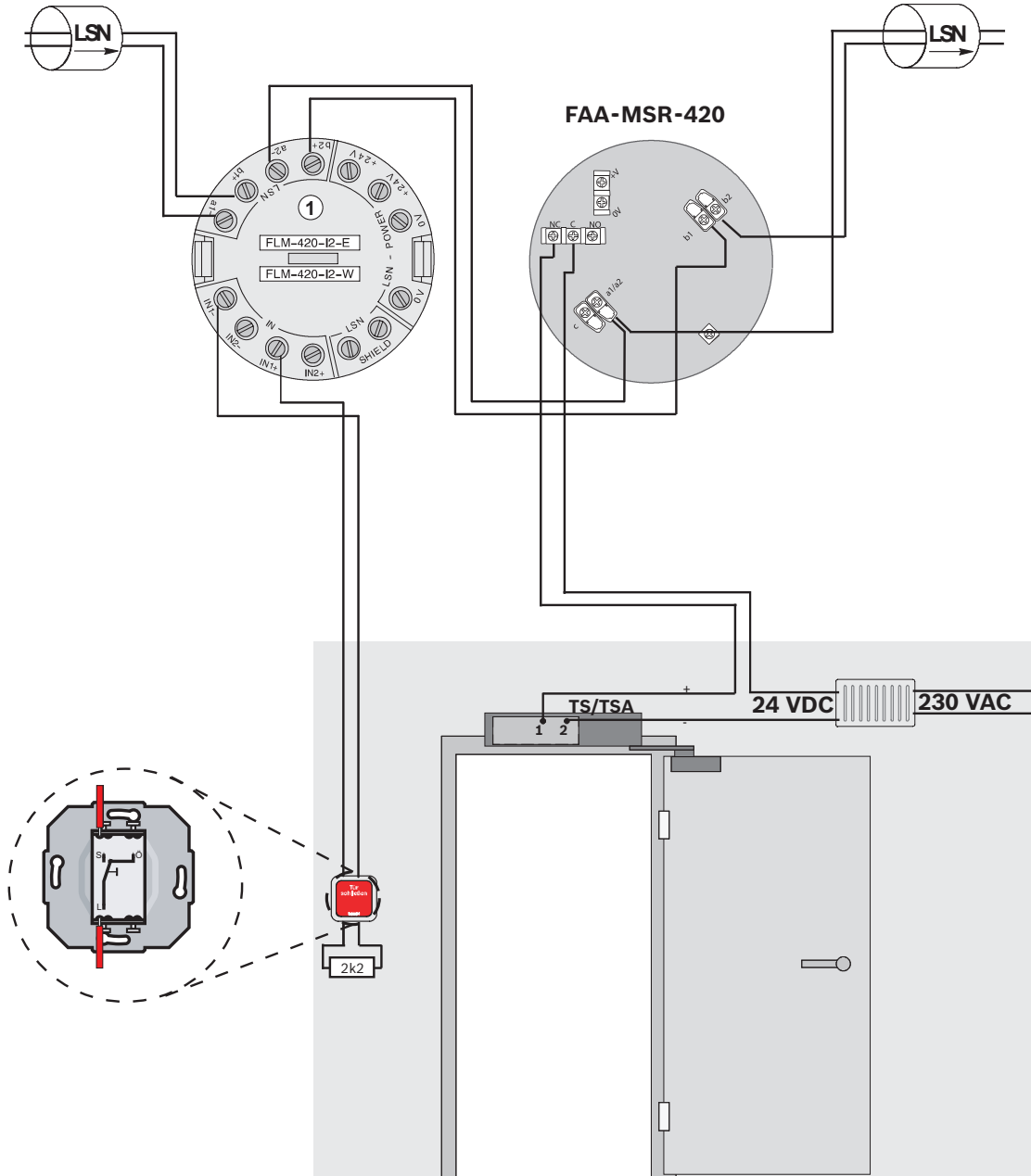
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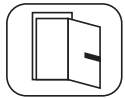




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TS 5000 E/E-IS/E-ISM
TS 550 E
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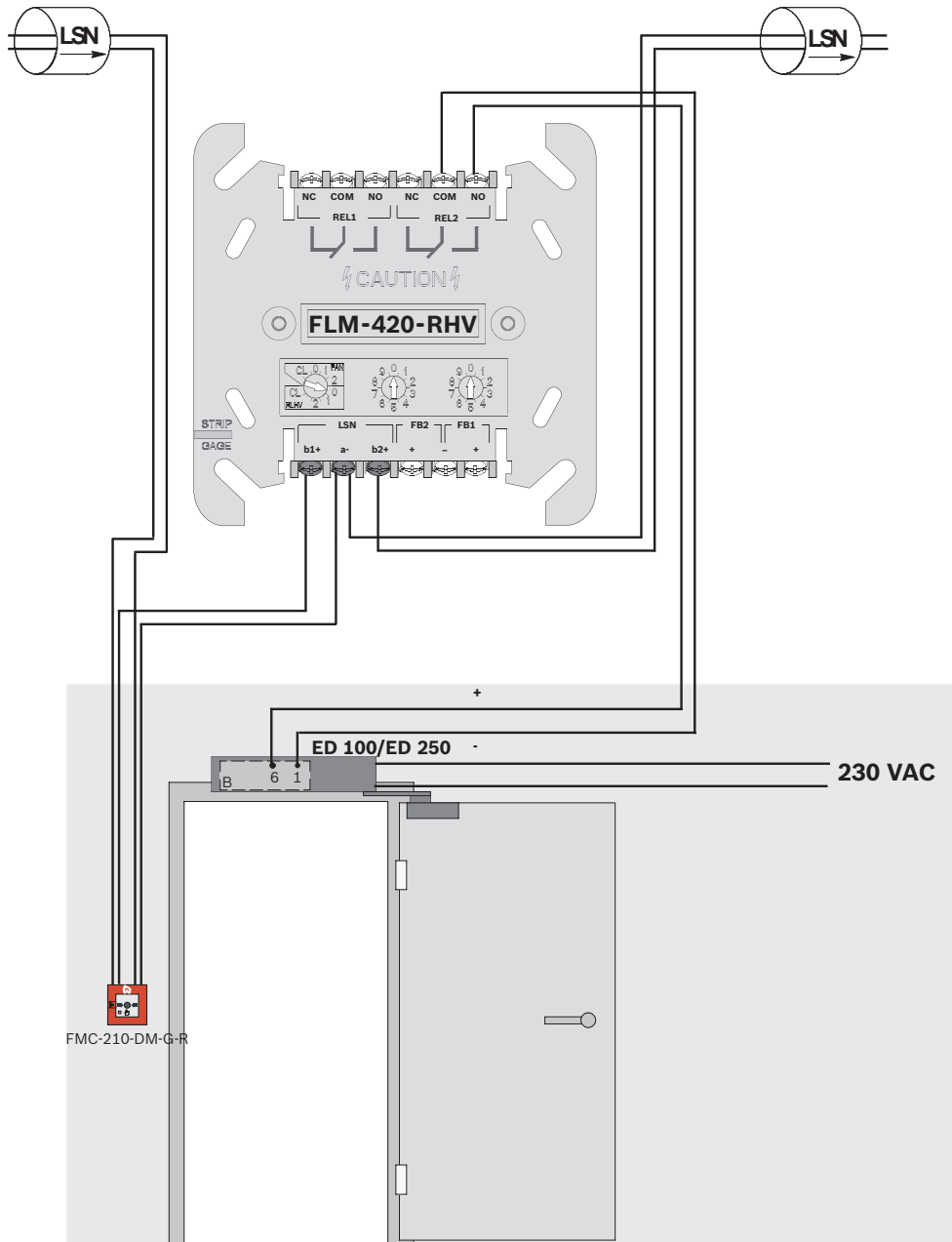
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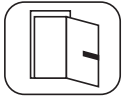




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(+Upgrade Card B**

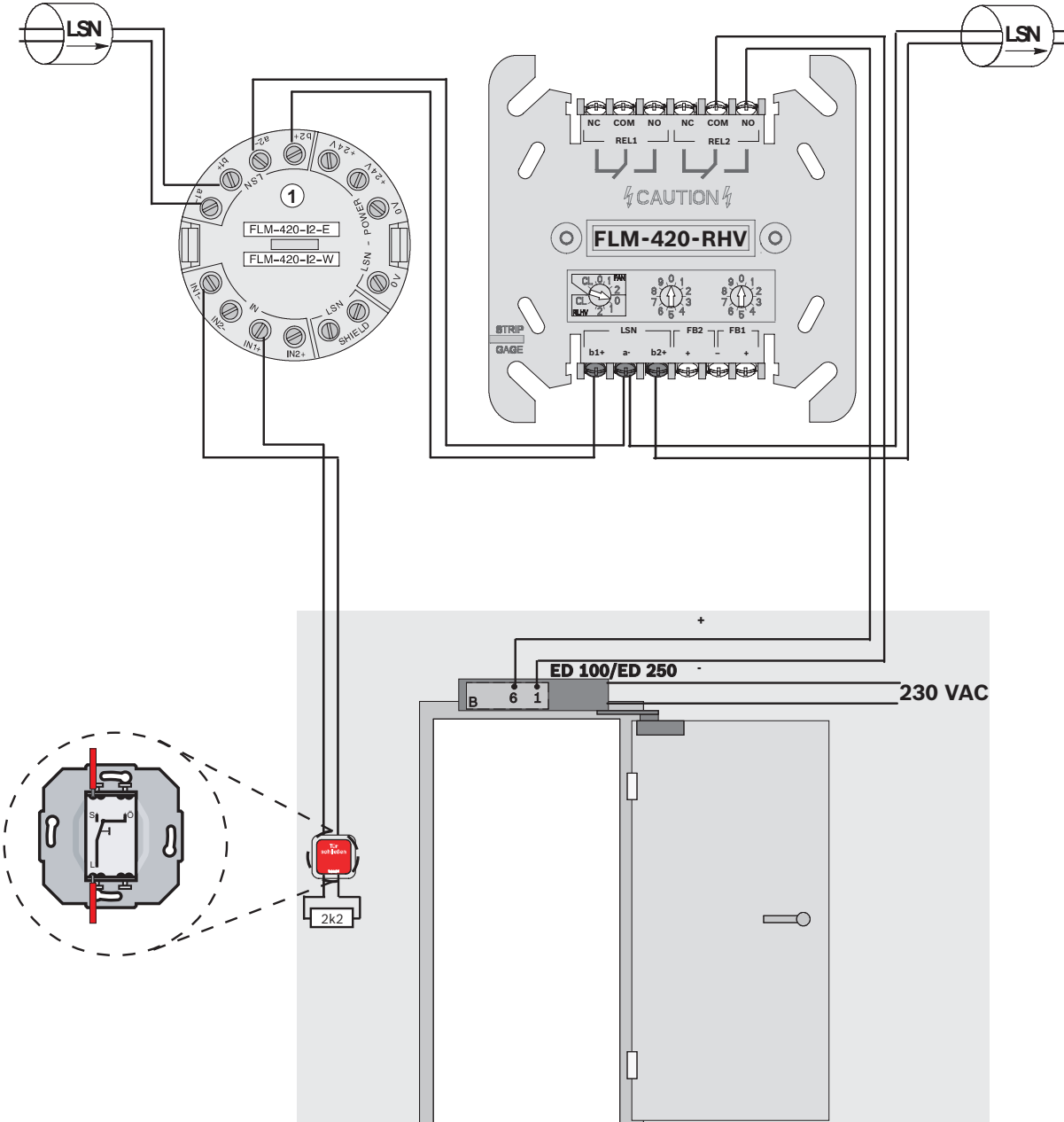
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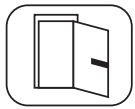




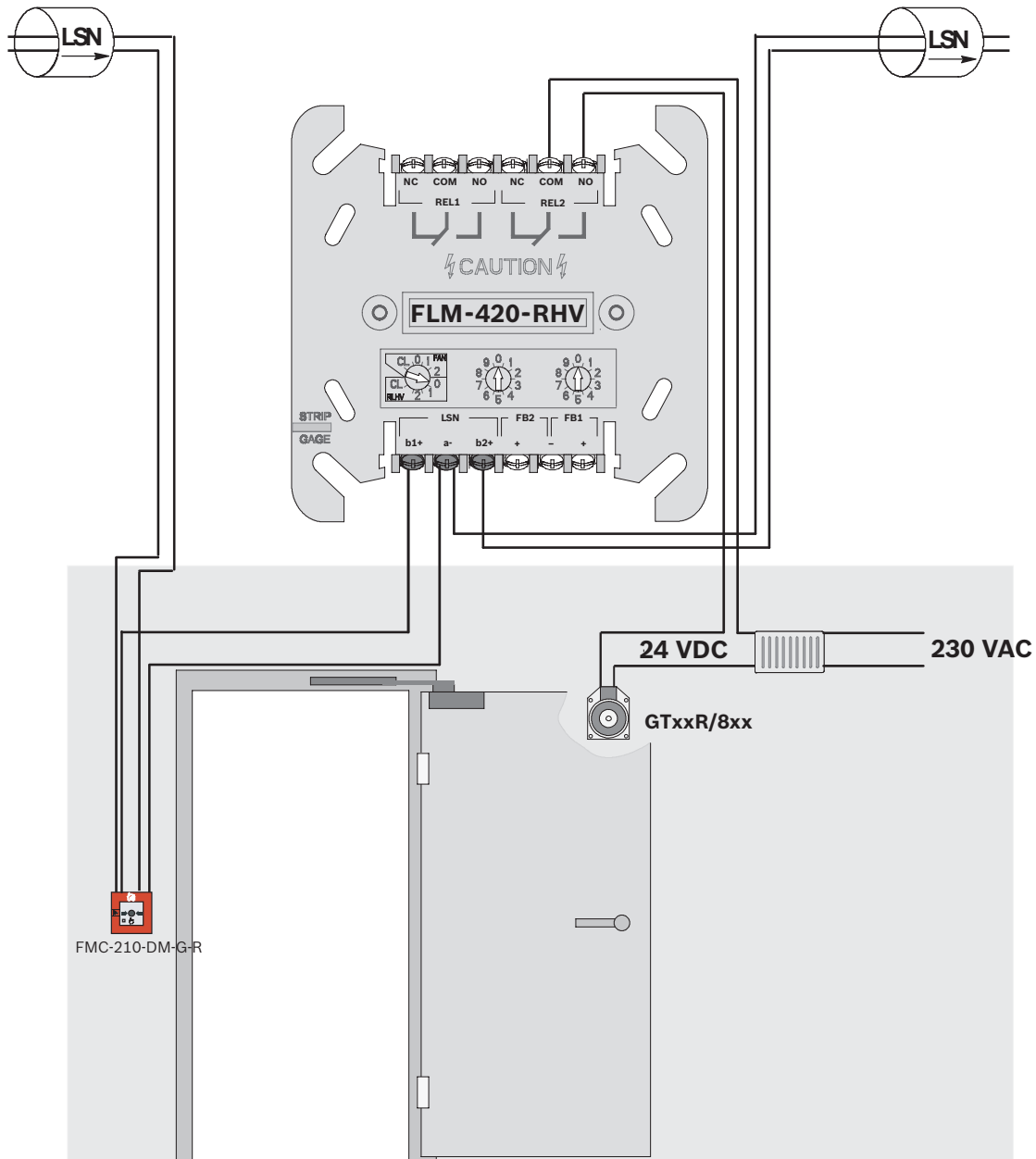
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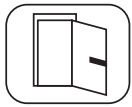
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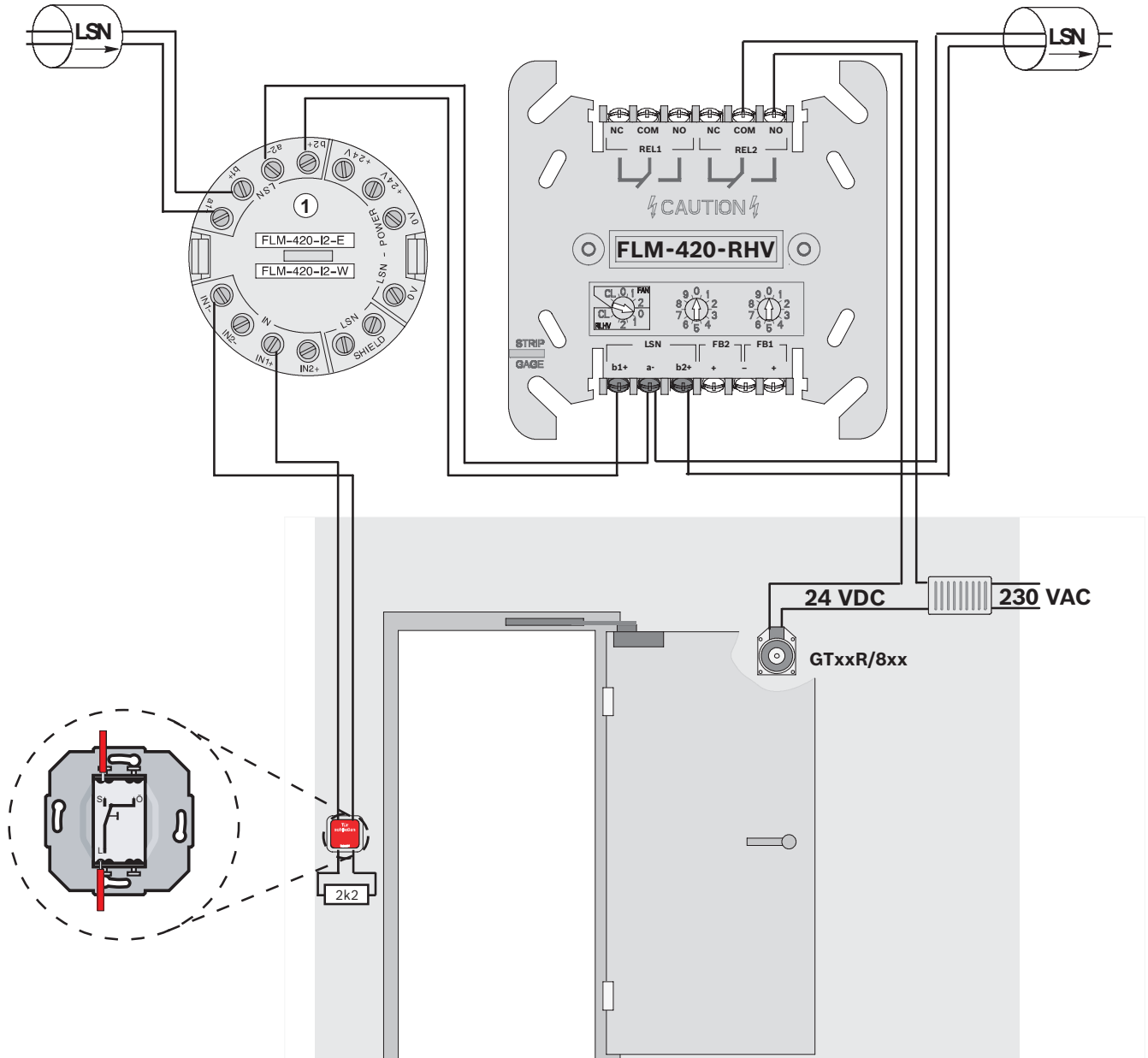


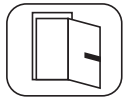
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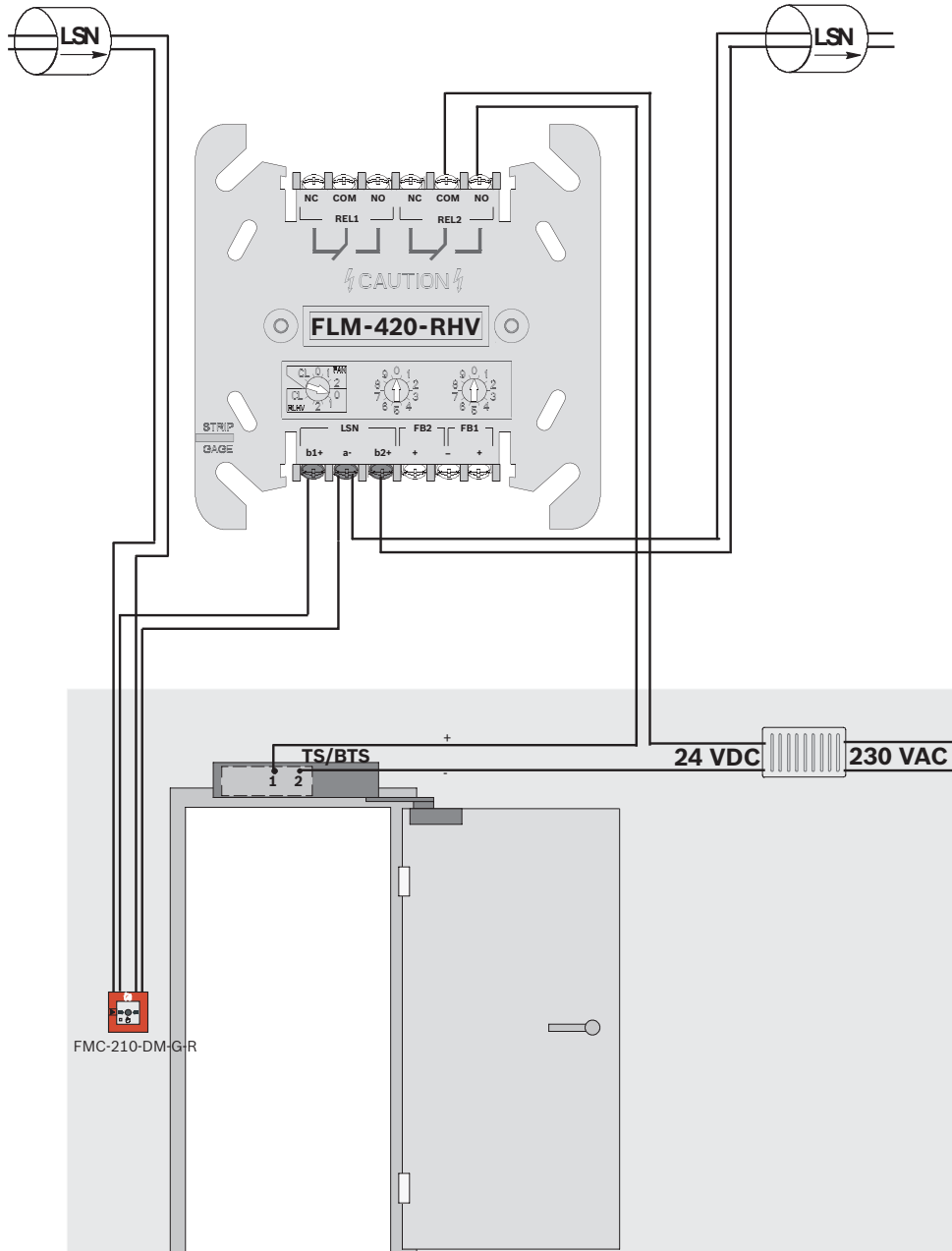
DIBT





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

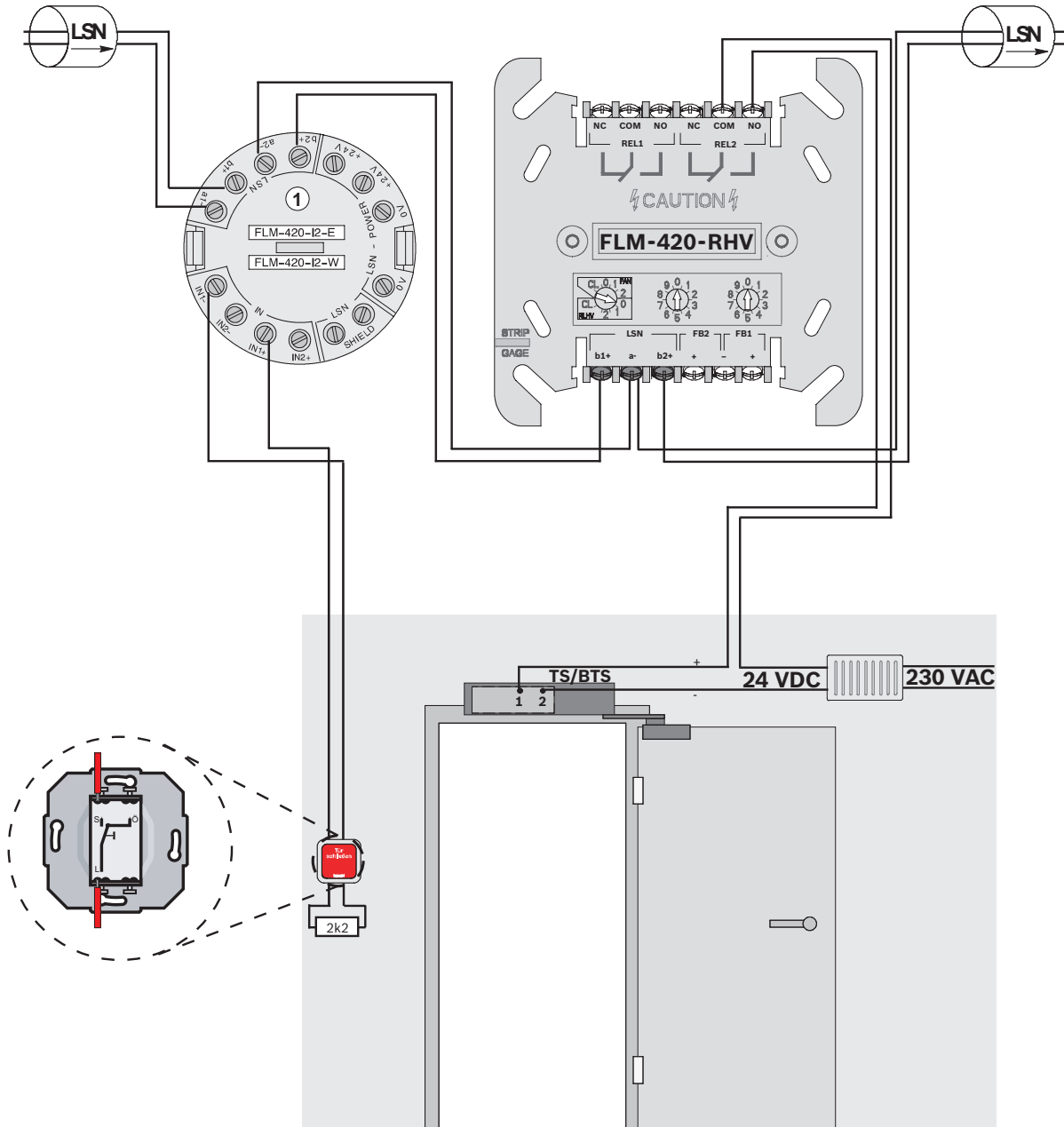
DIBT





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

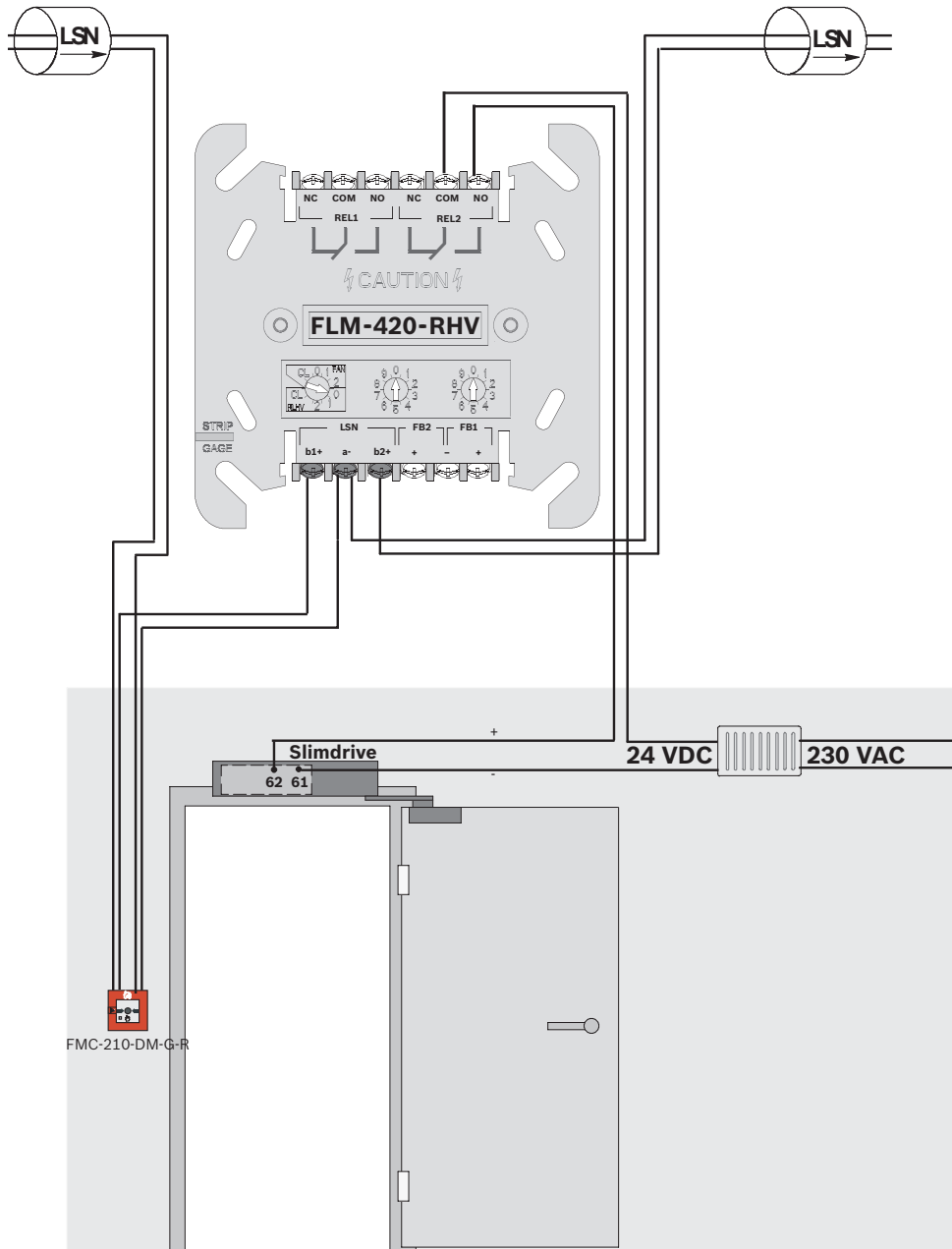
DIBT

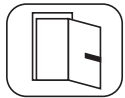




Slimdrive EMD-F/EMD F-IS

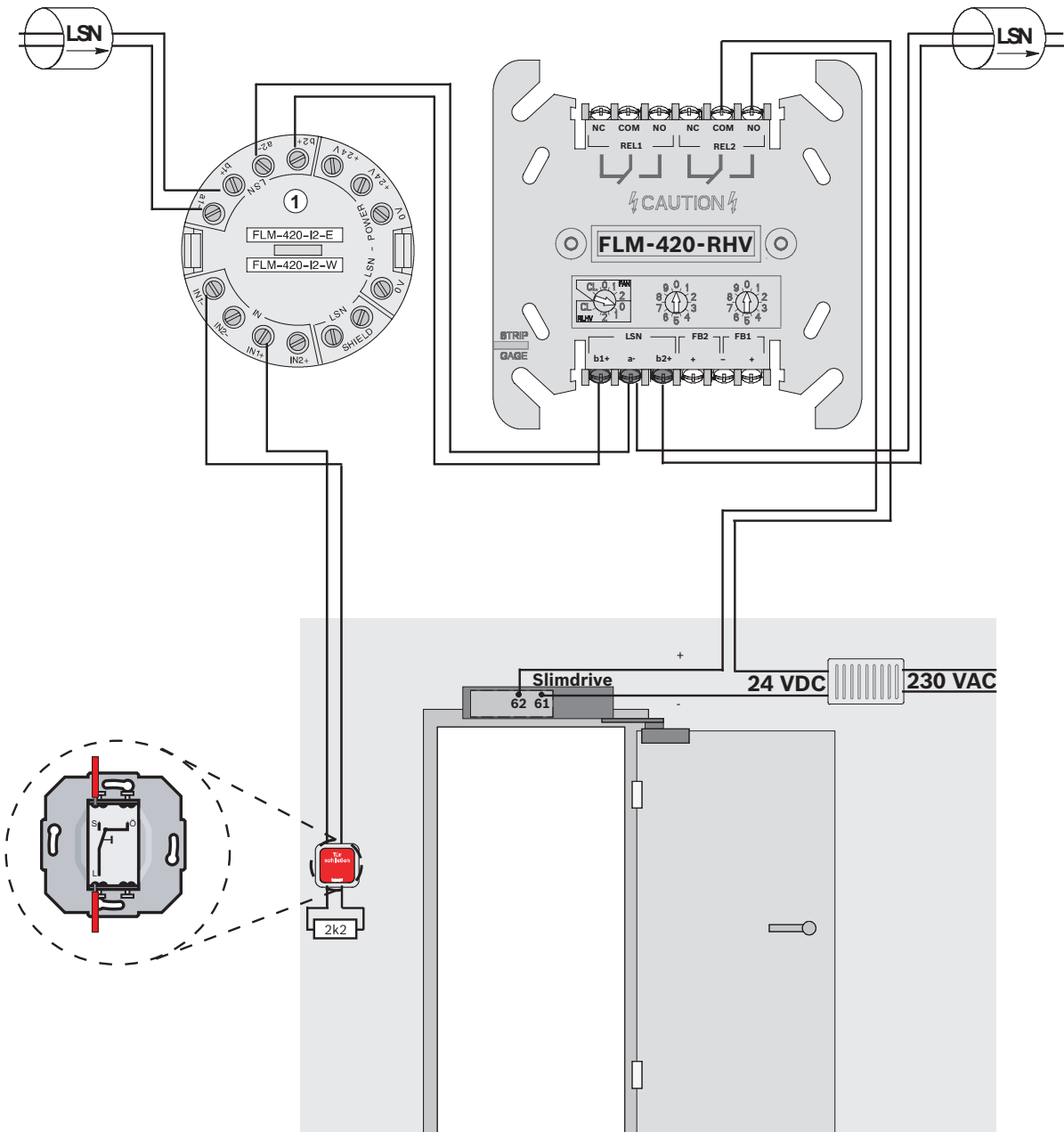
DIBT





Slimdrive EMD-F/EMD F-IS

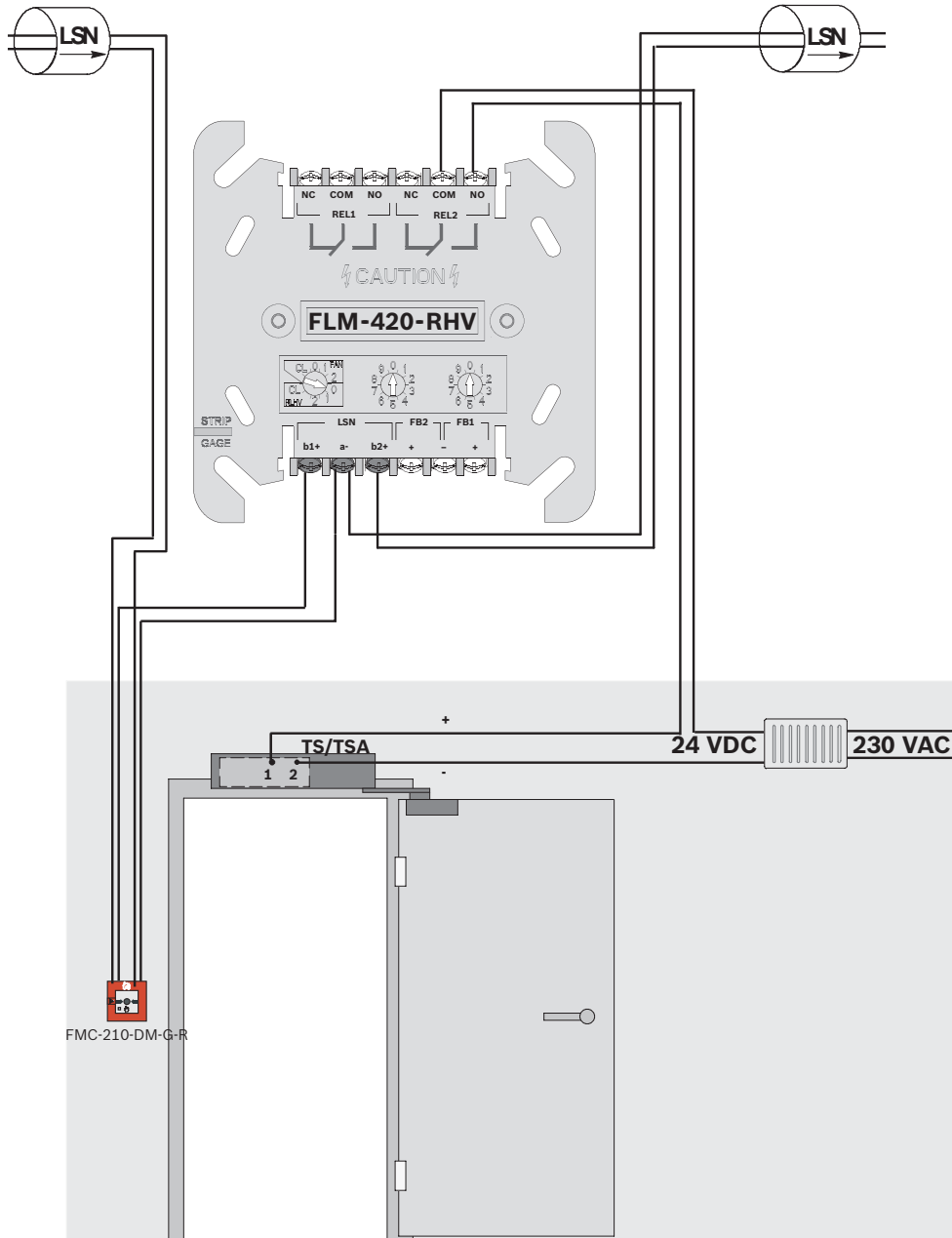
DIBT





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

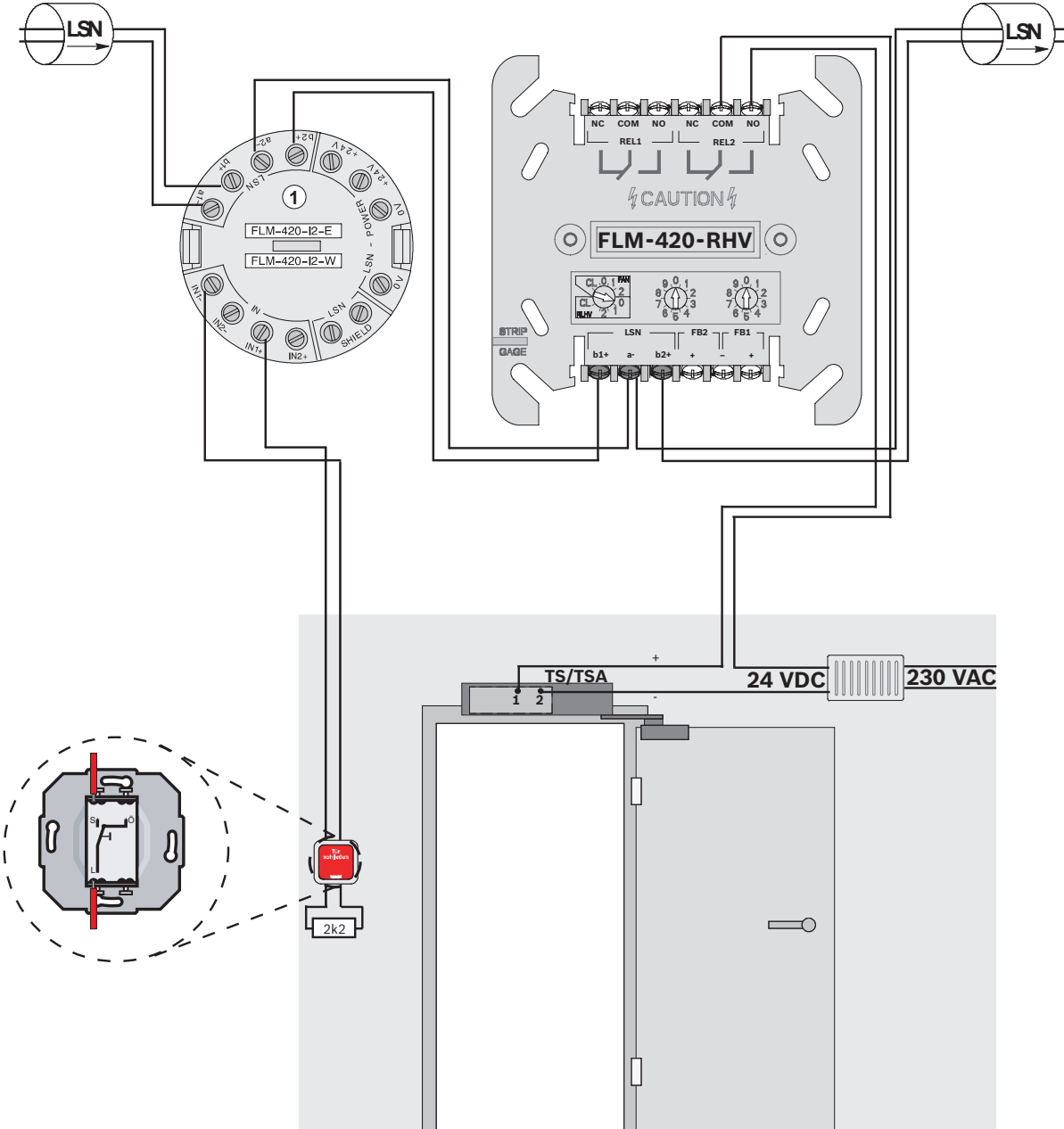
DIBT

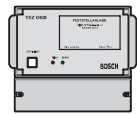
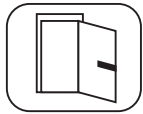




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

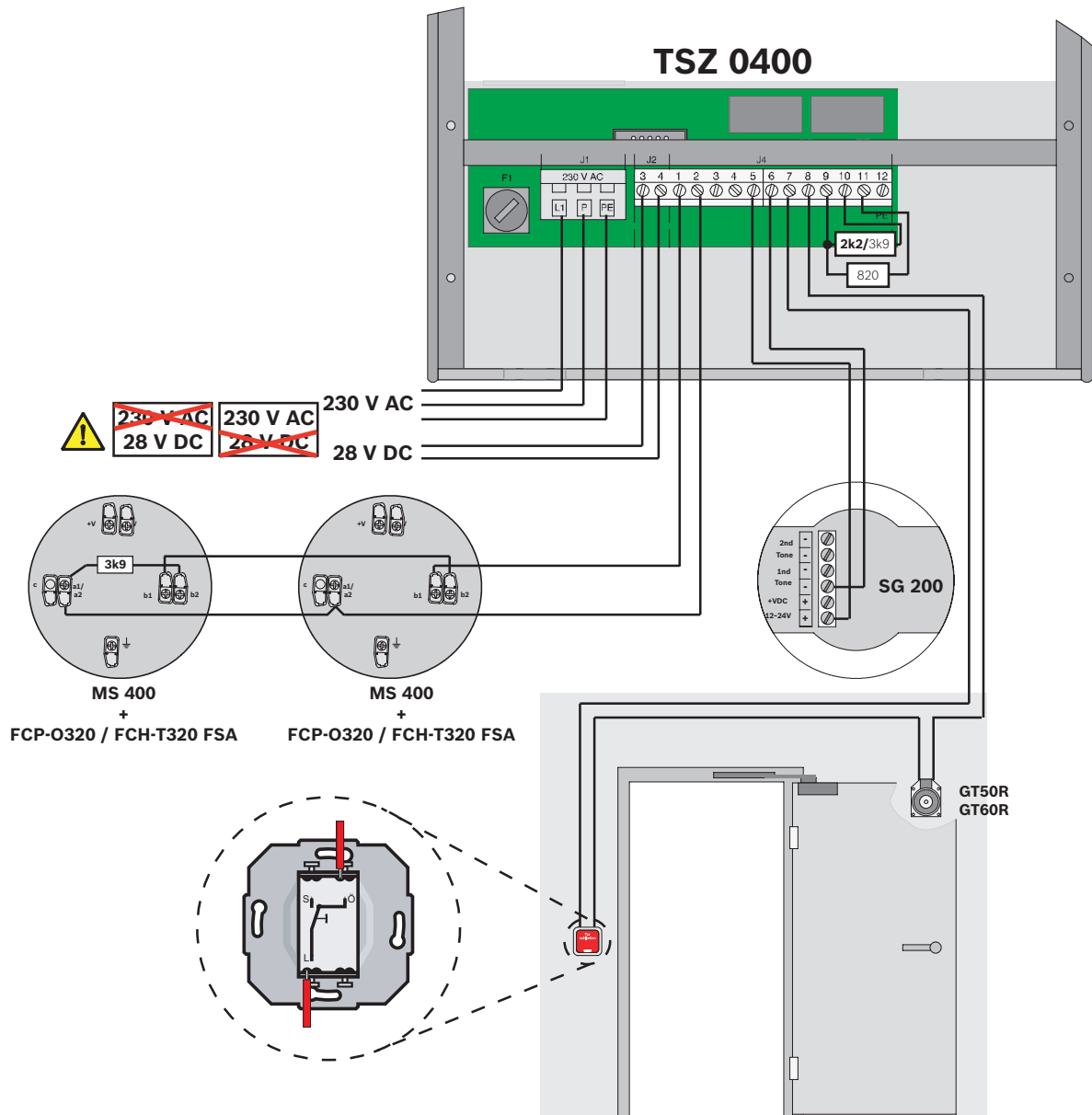
DIBT

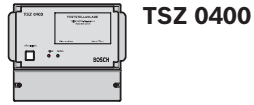
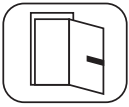




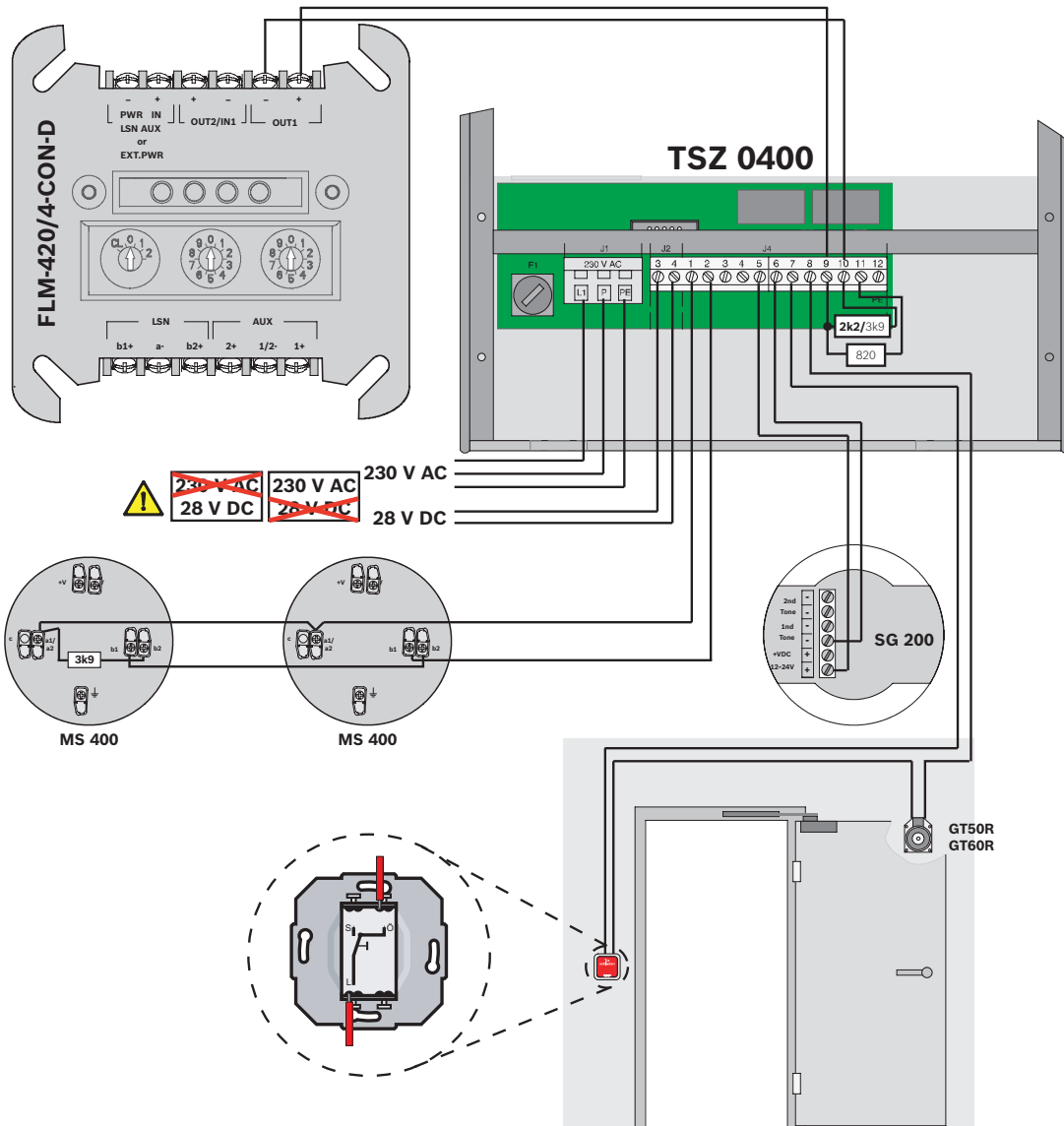
TSZ 0400

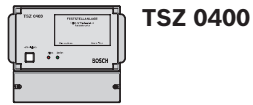
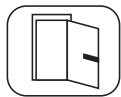
DIBT



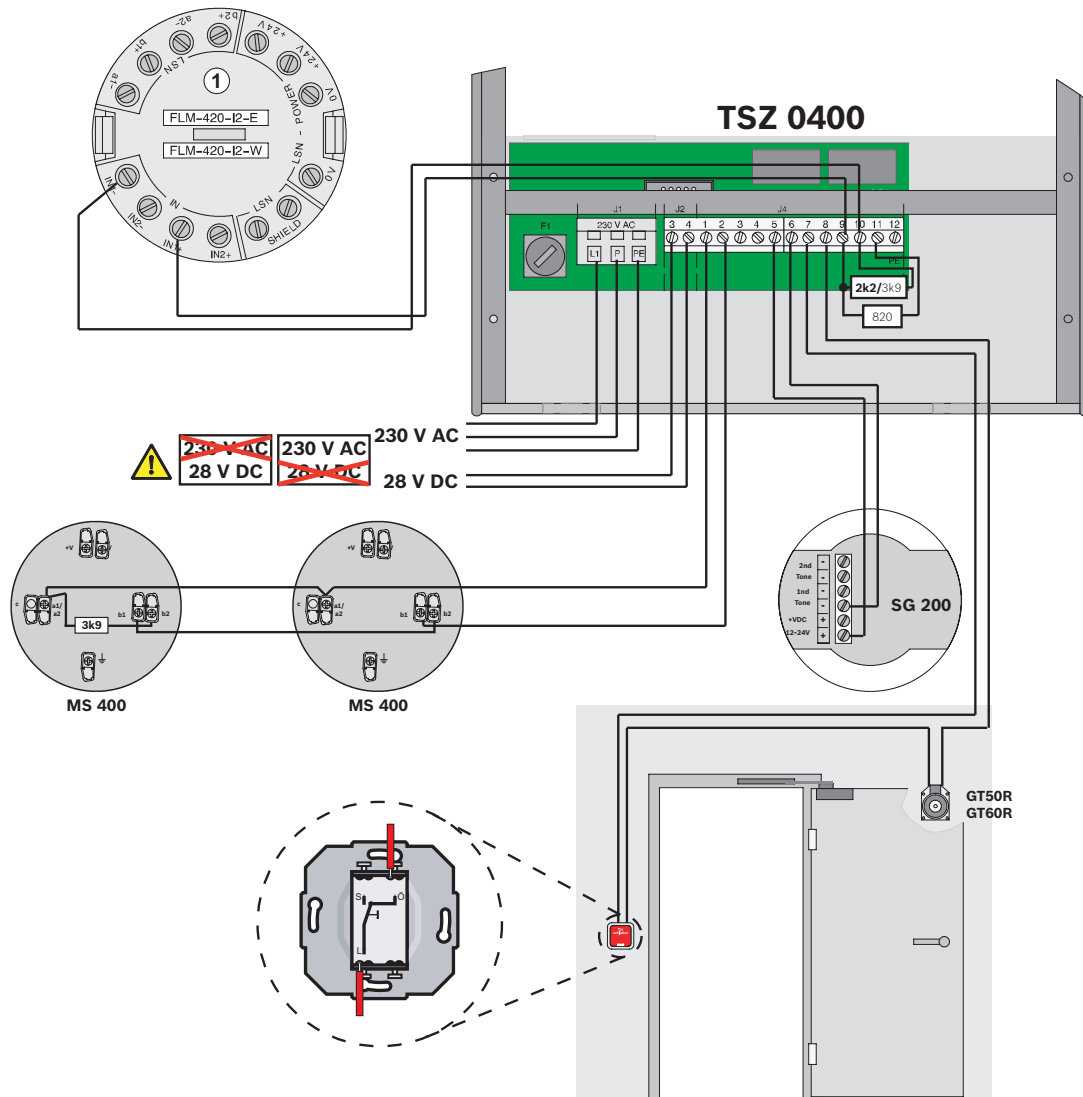


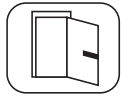
DIBT



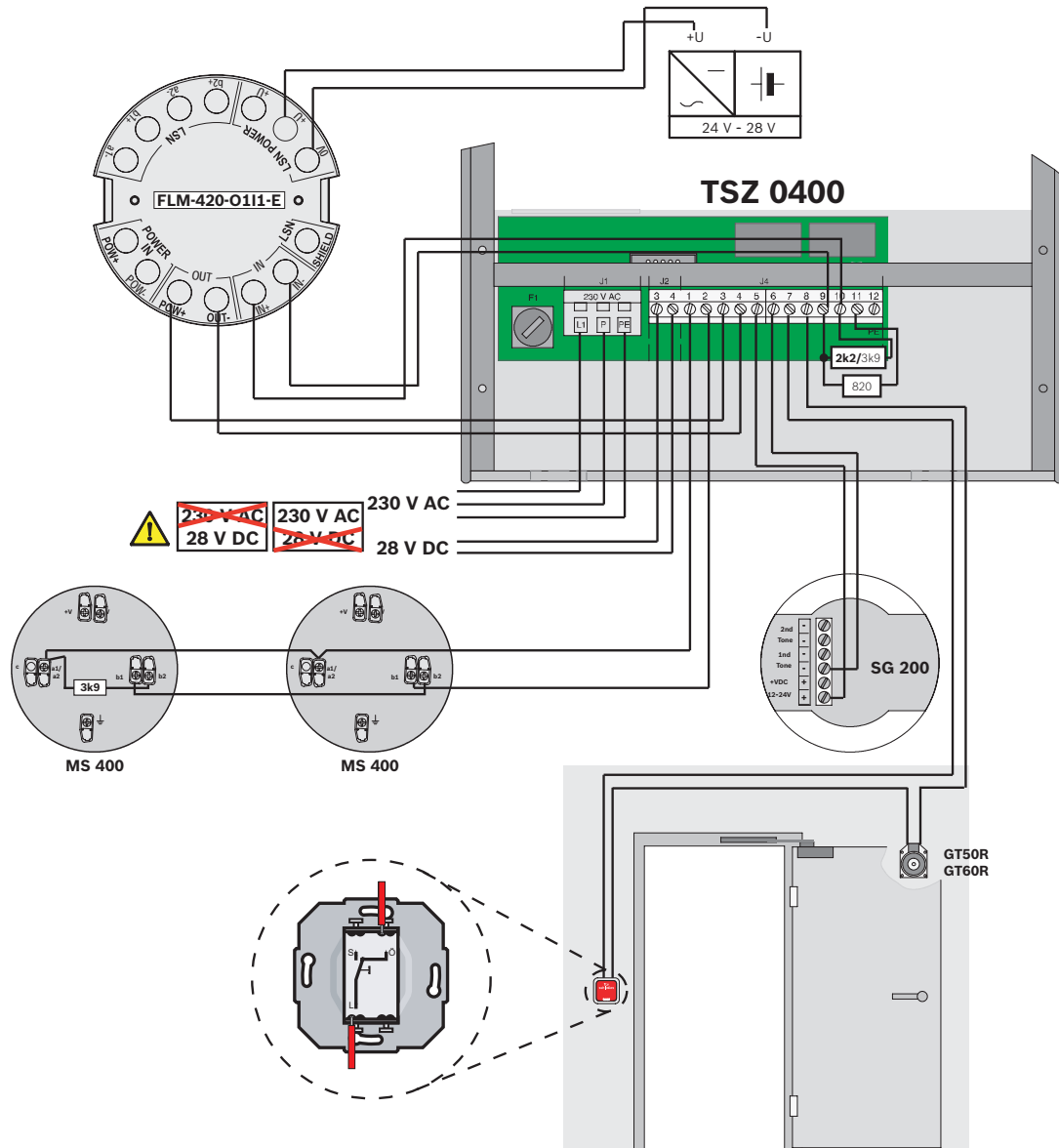


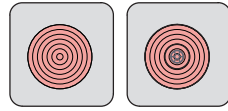
DIBT



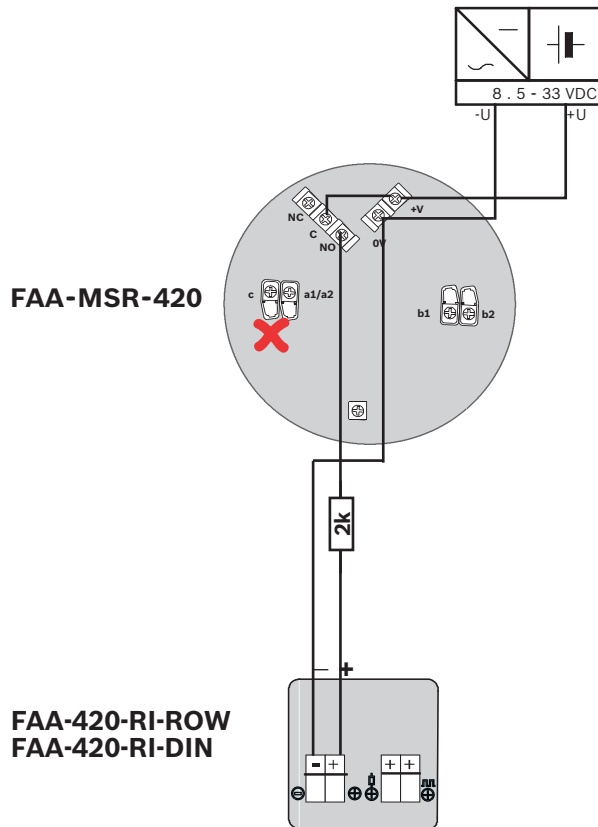
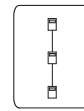


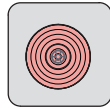
DIBT



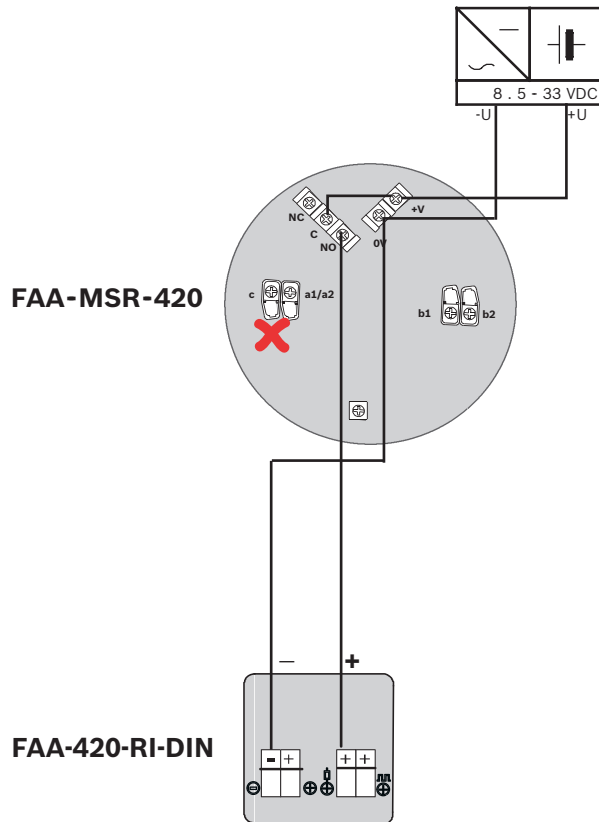
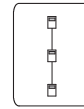


FAA-420-RI-ROW
FAA-420-RI-DIN



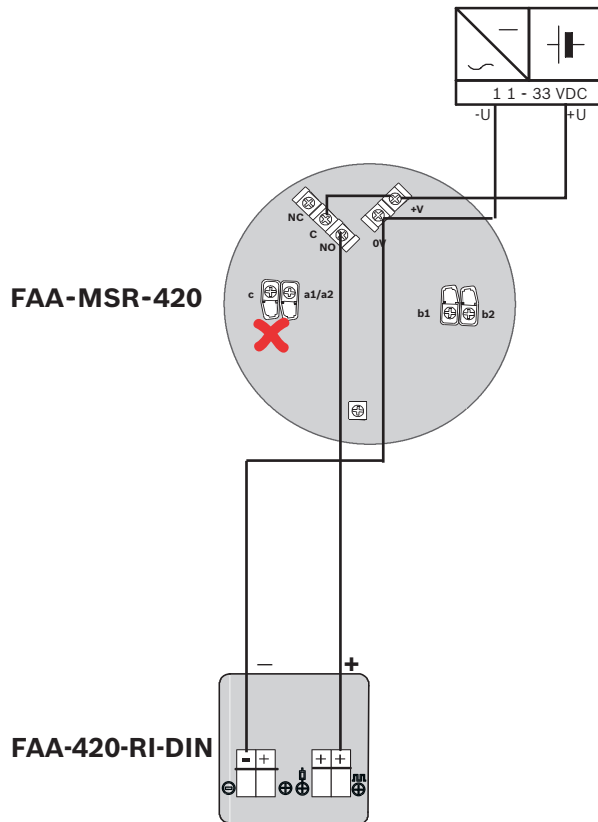
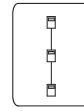


FAA-420-RI-DIN





FAA-420-RI-DIN



2.4

Functional Modules



BCM-000-B, pagina 43

CZM 0004 A, pagina 45

ENO 0000 A/B, pagina 61

LSN 0300 A, pagina 68

NZM 0002 A, pagina 106

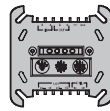
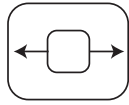
RMH 0002 A, pagina 119

IOS 0020 A, pagina 120

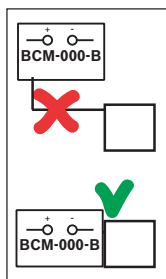
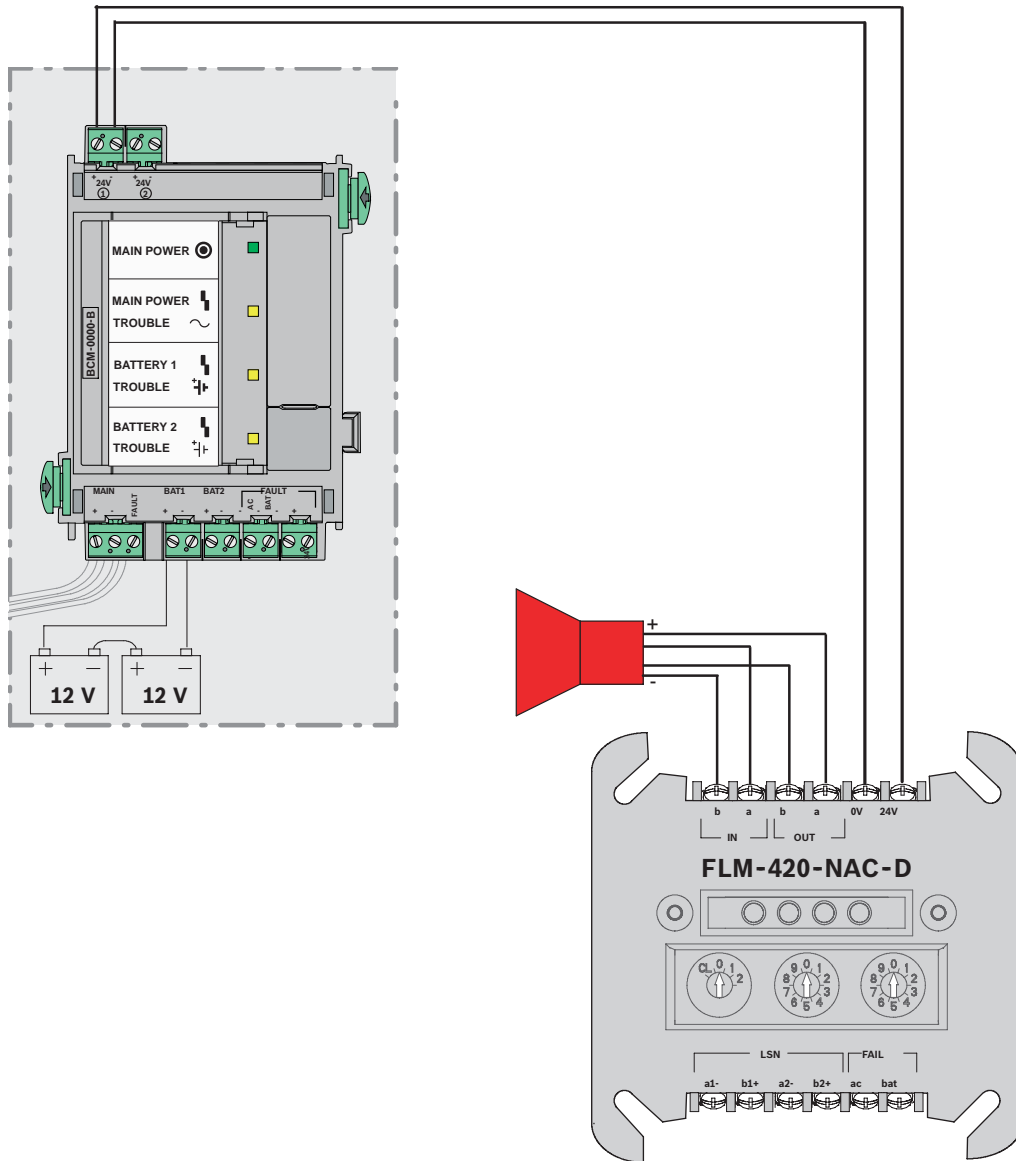
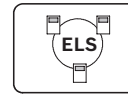
FPE-5000-UGM, pagina 122

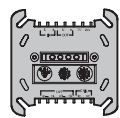
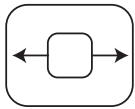
2.4.1

BCM-000-B

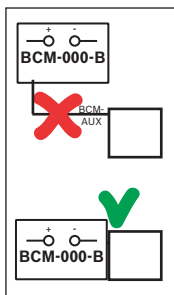
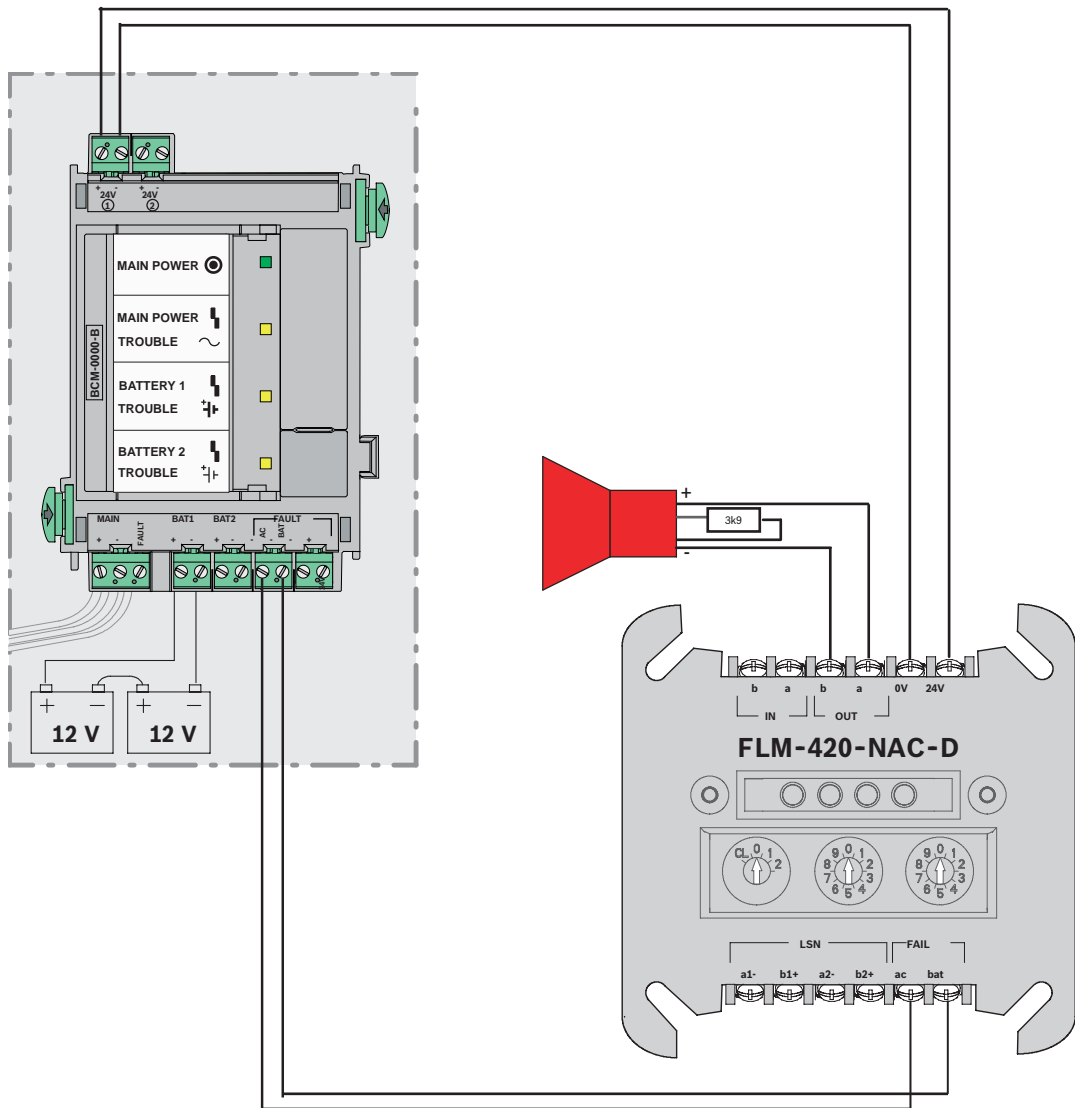
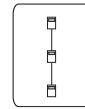


FLM-420-NAC-D





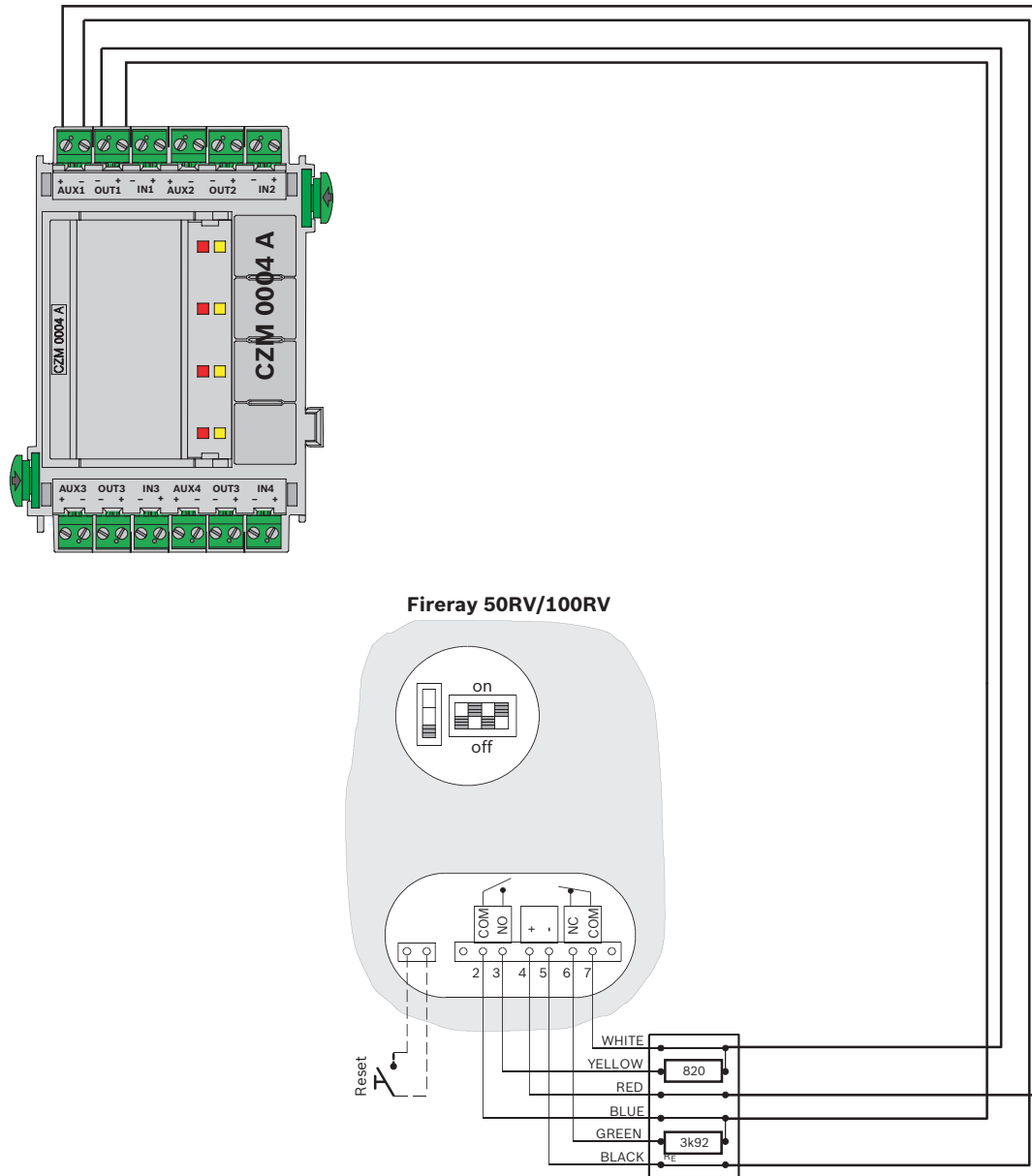
FLM-420-NAC-D



2.4.2 CZM 0004 A



Firearay 50RV
Firearay 100RV



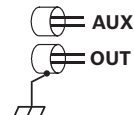
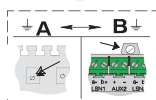
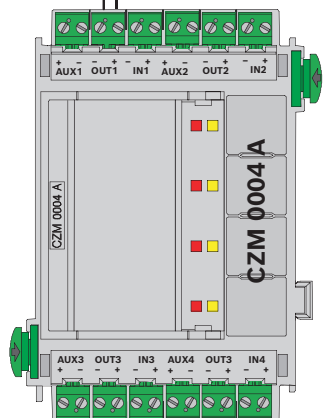


FIRERAY3000

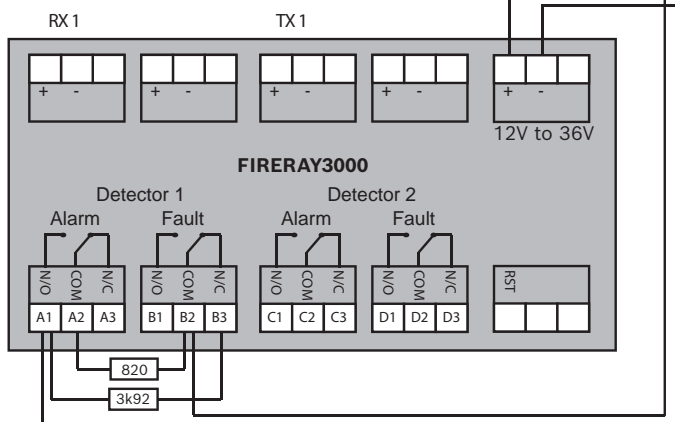
1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

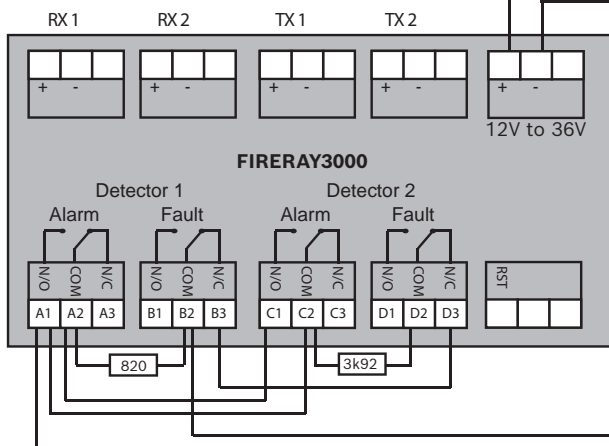
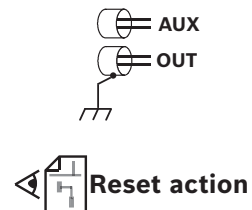
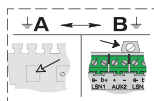
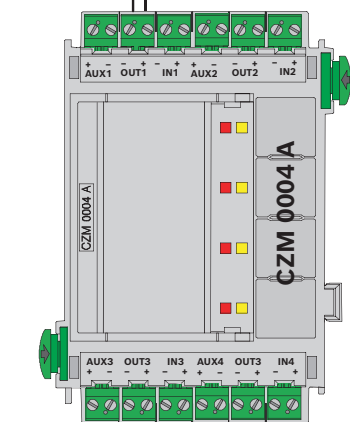




FIRERAY3000
2 x  **OUT1**



BCM-0000-B
LSN 0300 A
LSN 1500 A

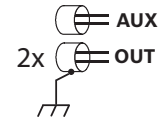
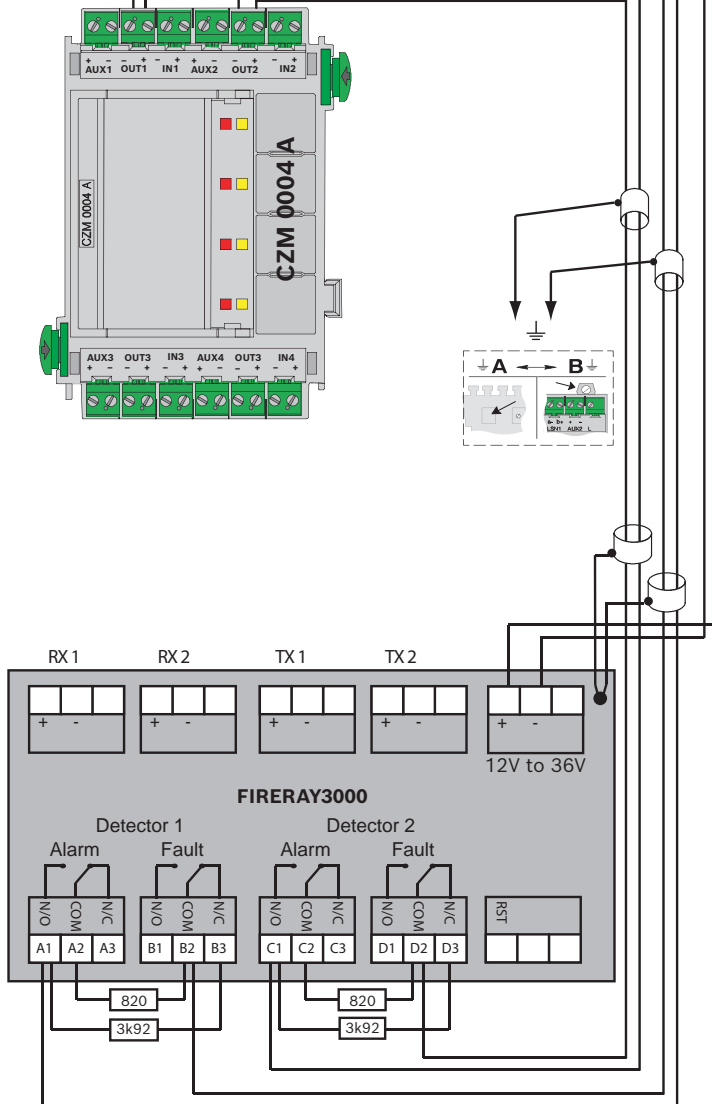




FIRERAY3000
2 x **OUT1+2**



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

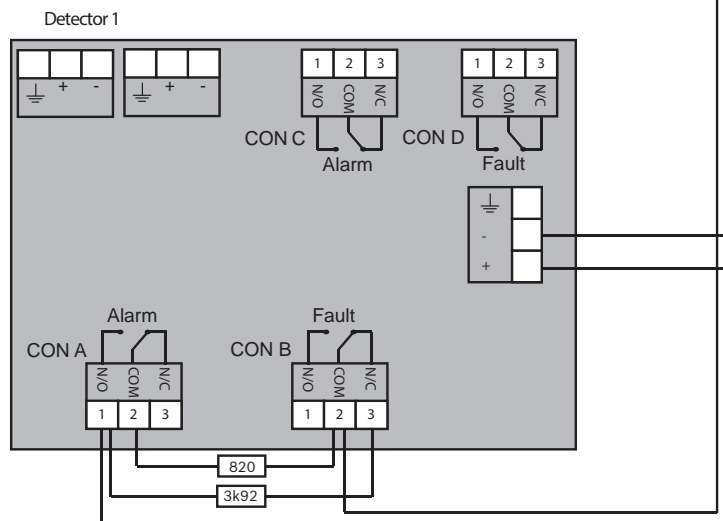
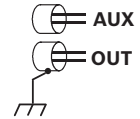
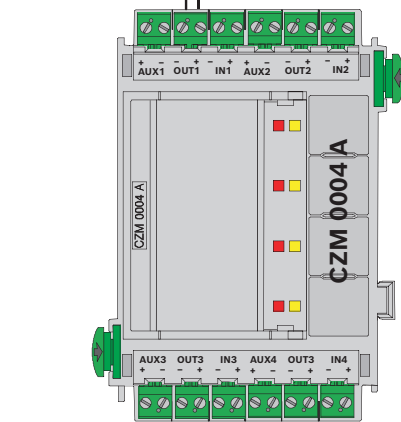


FIRERAY5000

1 x



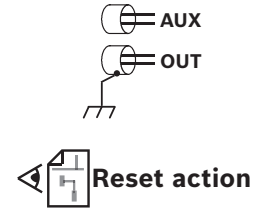
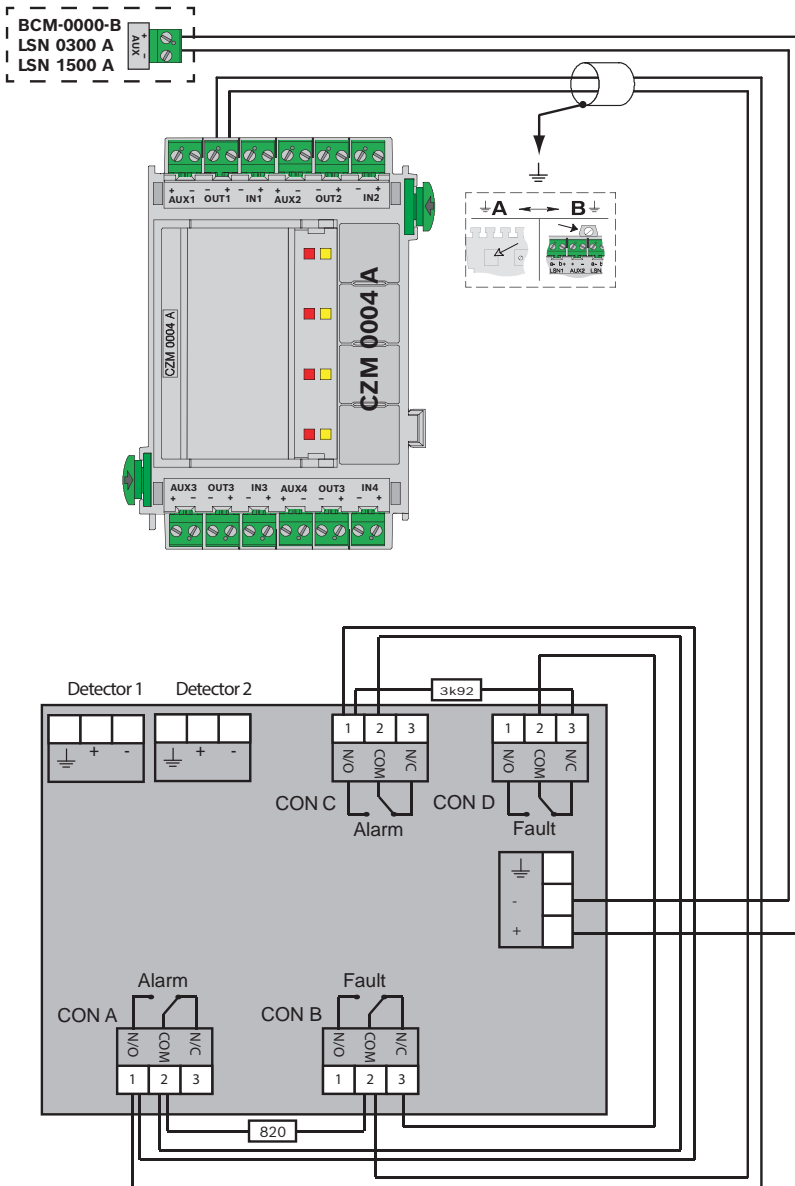
BCM-0000-B
LSN 0300 A
LSN 1500 A

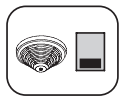




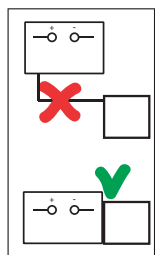
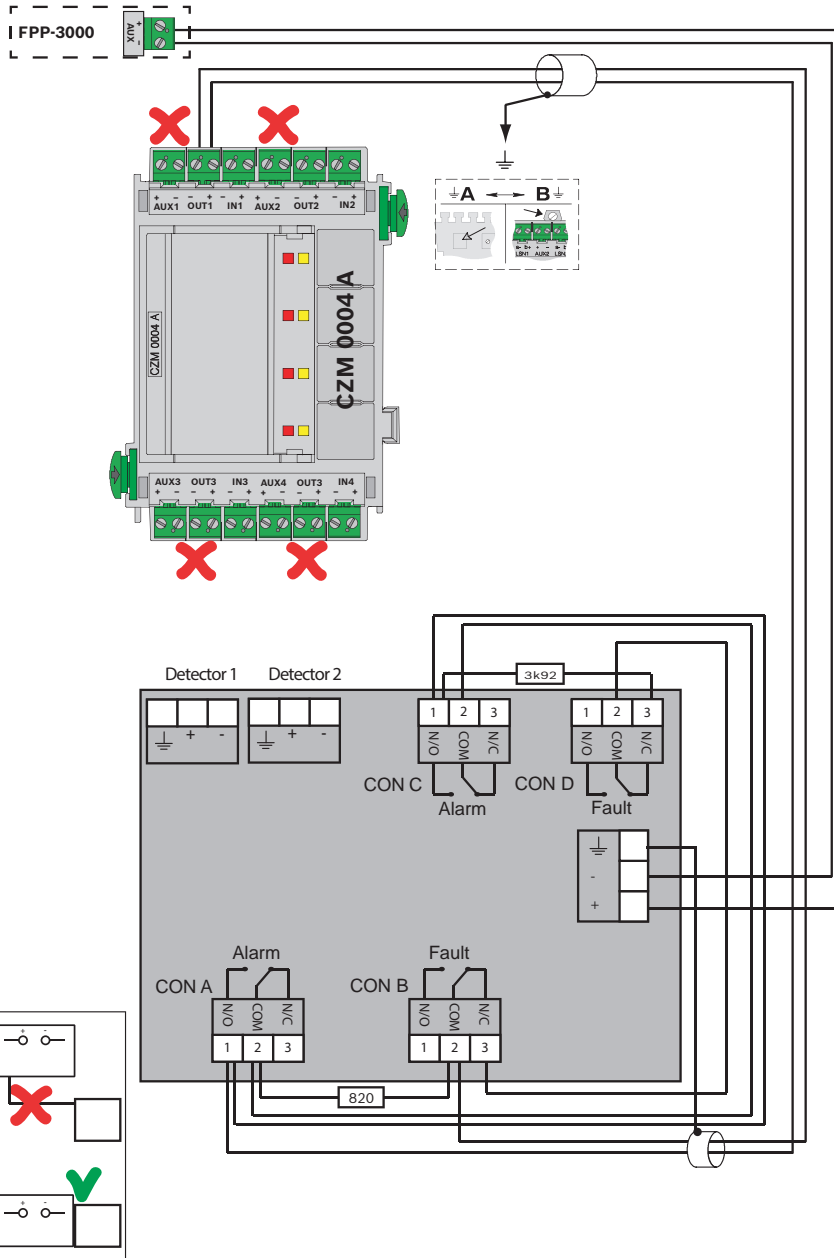
FIRERAY5000

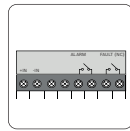
2 x OUT1



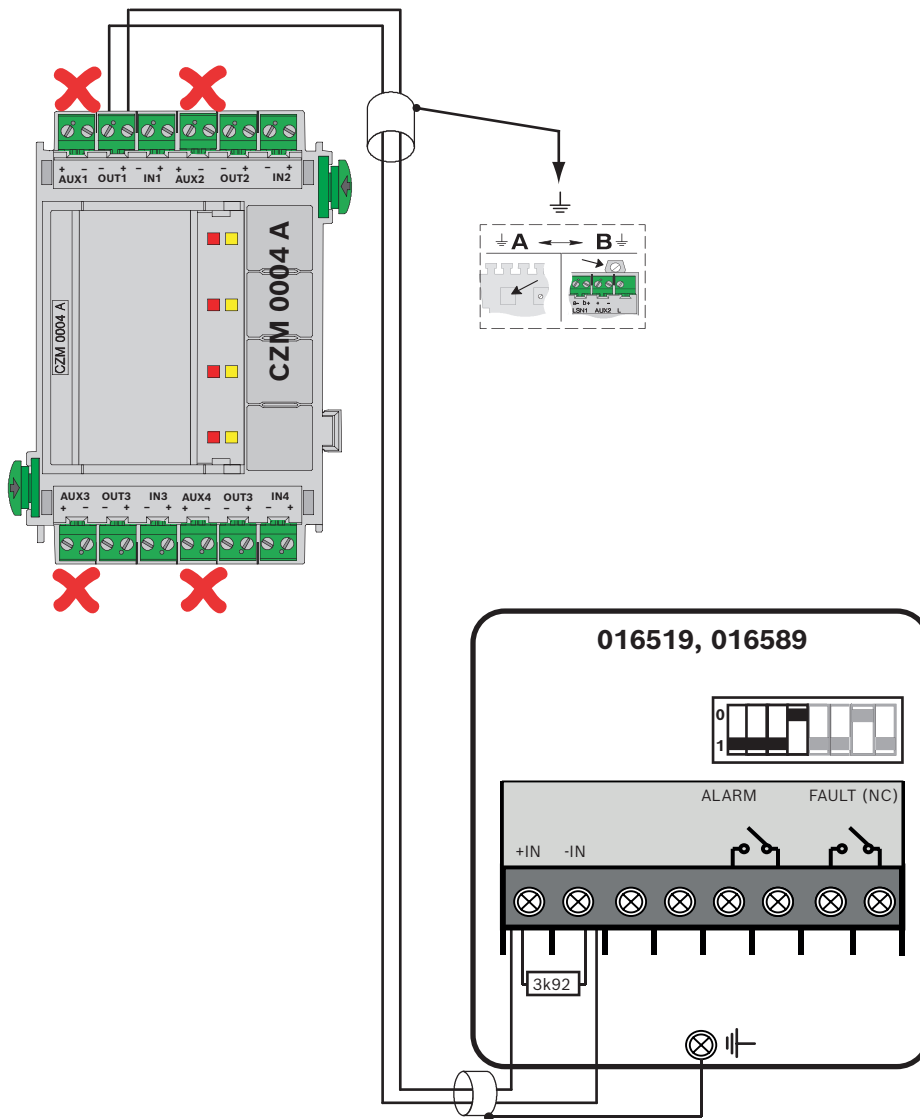
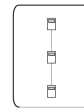


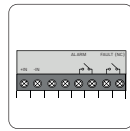
FIRERAY5000
2 x **OUT1**



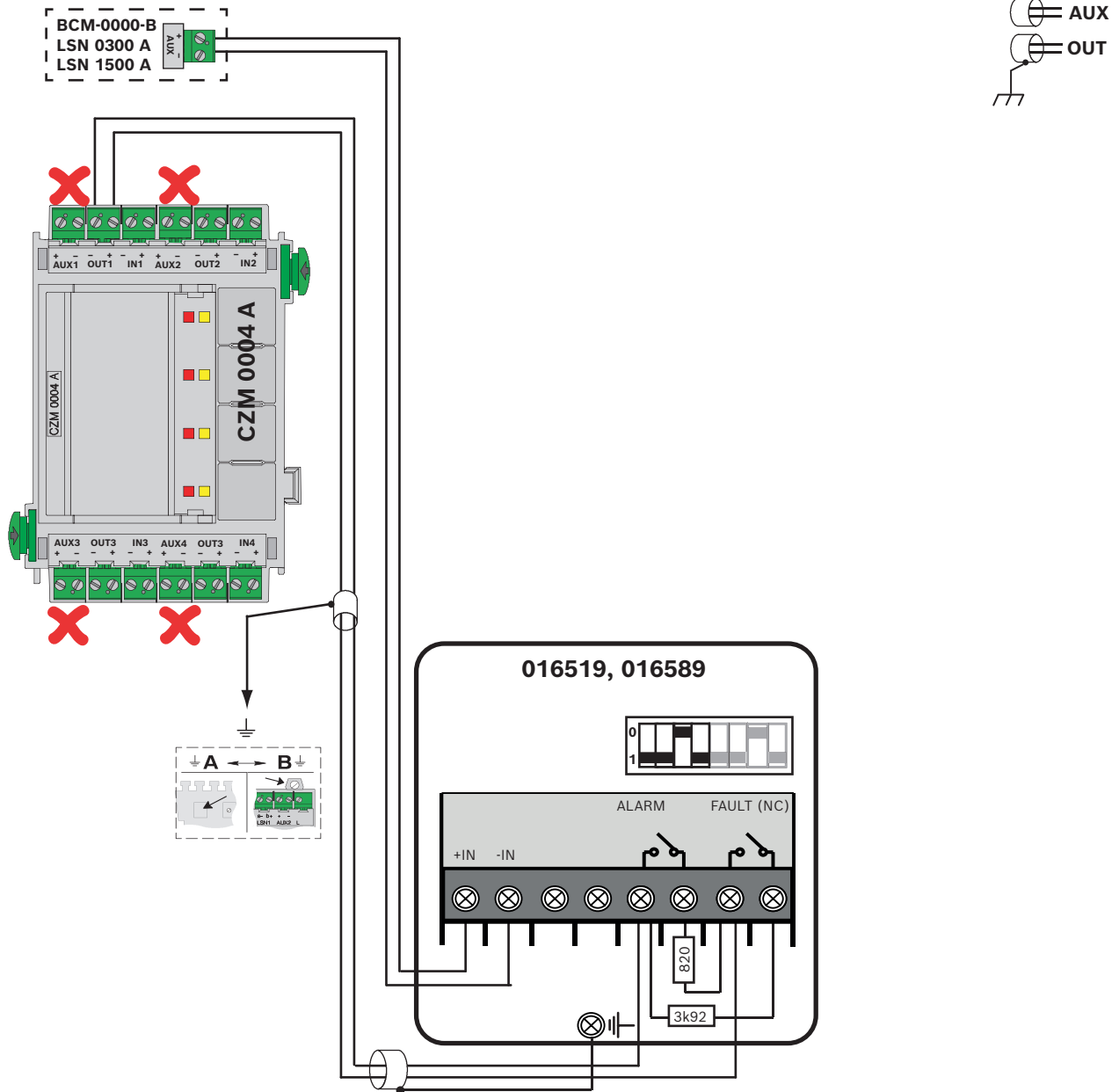
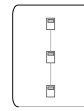


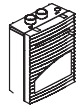
**016519, 016589
IR3 Flame Detector**



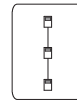


**016519, 016589
IR3 Flame Detector**

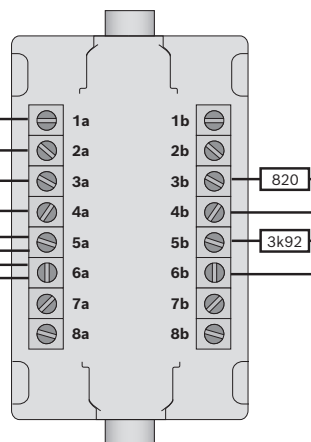
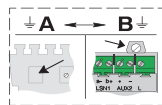
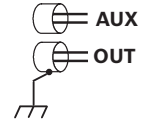
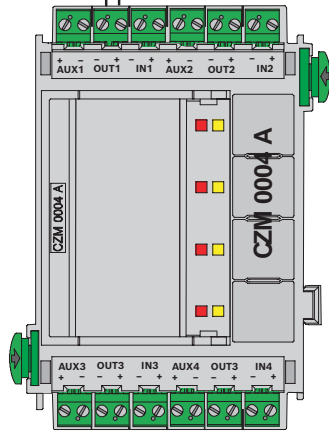


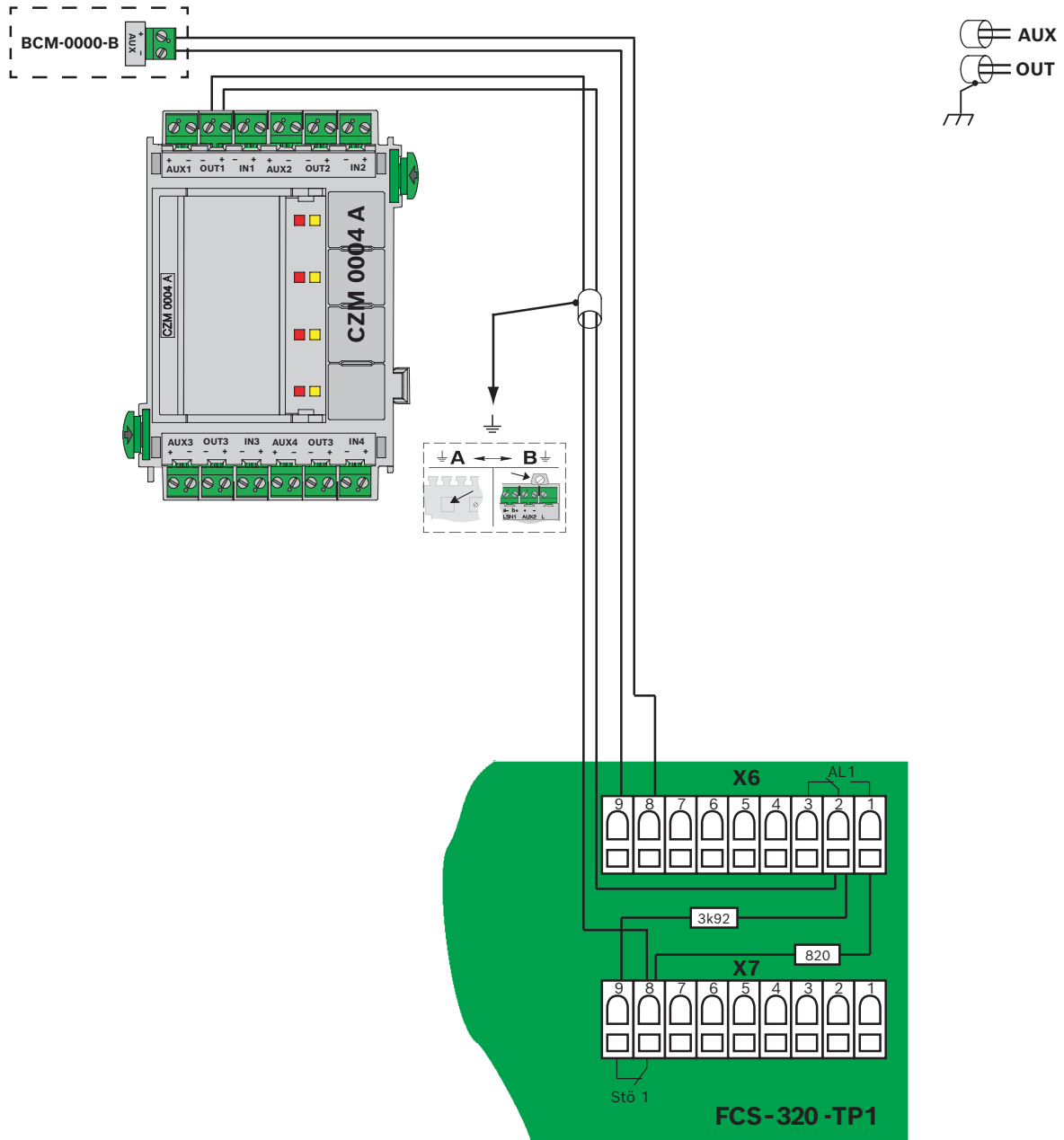
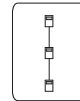
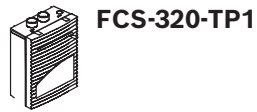


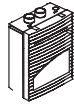
FCS-320-TM Series



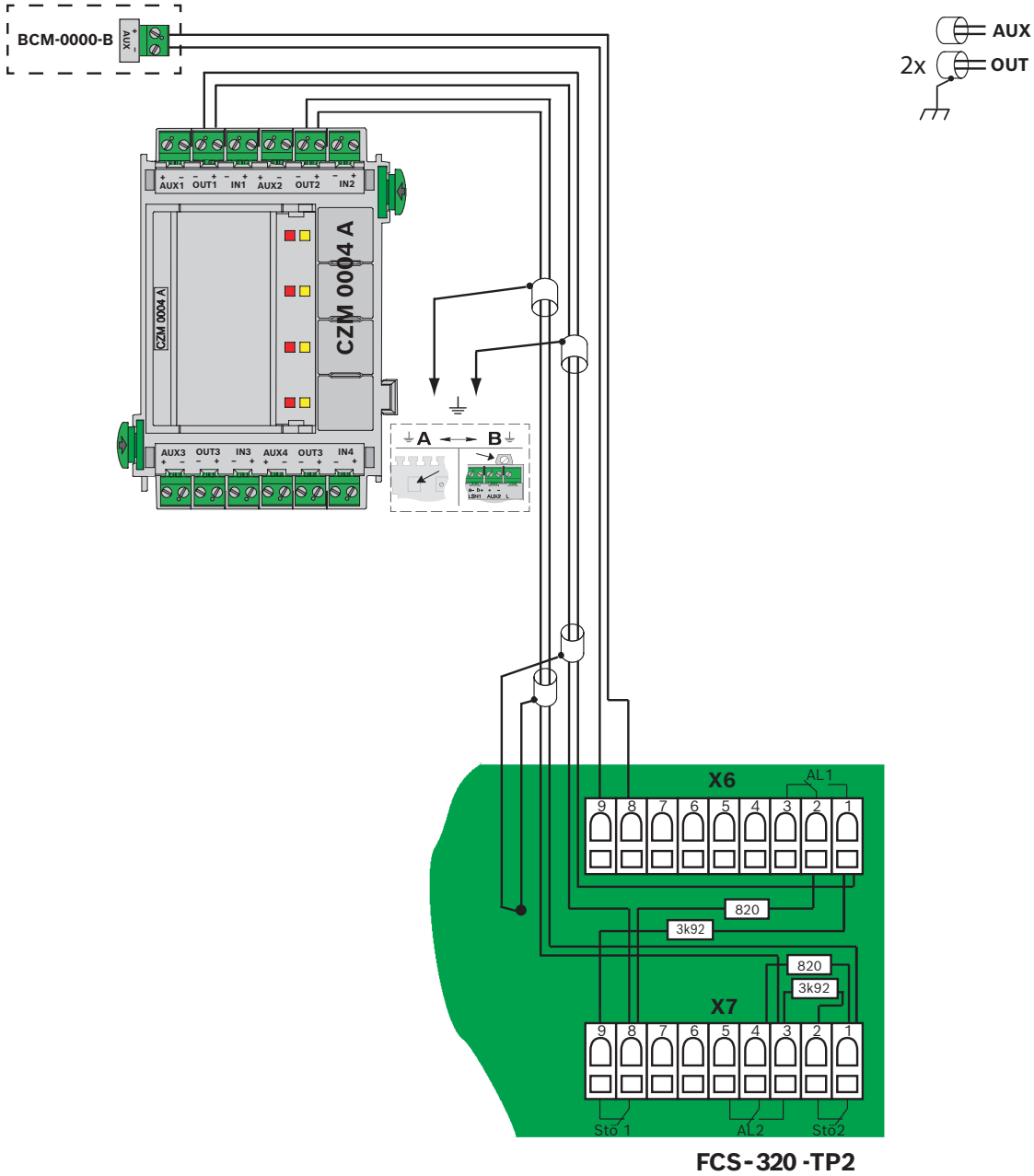
BCM-0000-B
LSN 0300 A
LSN 1500 A







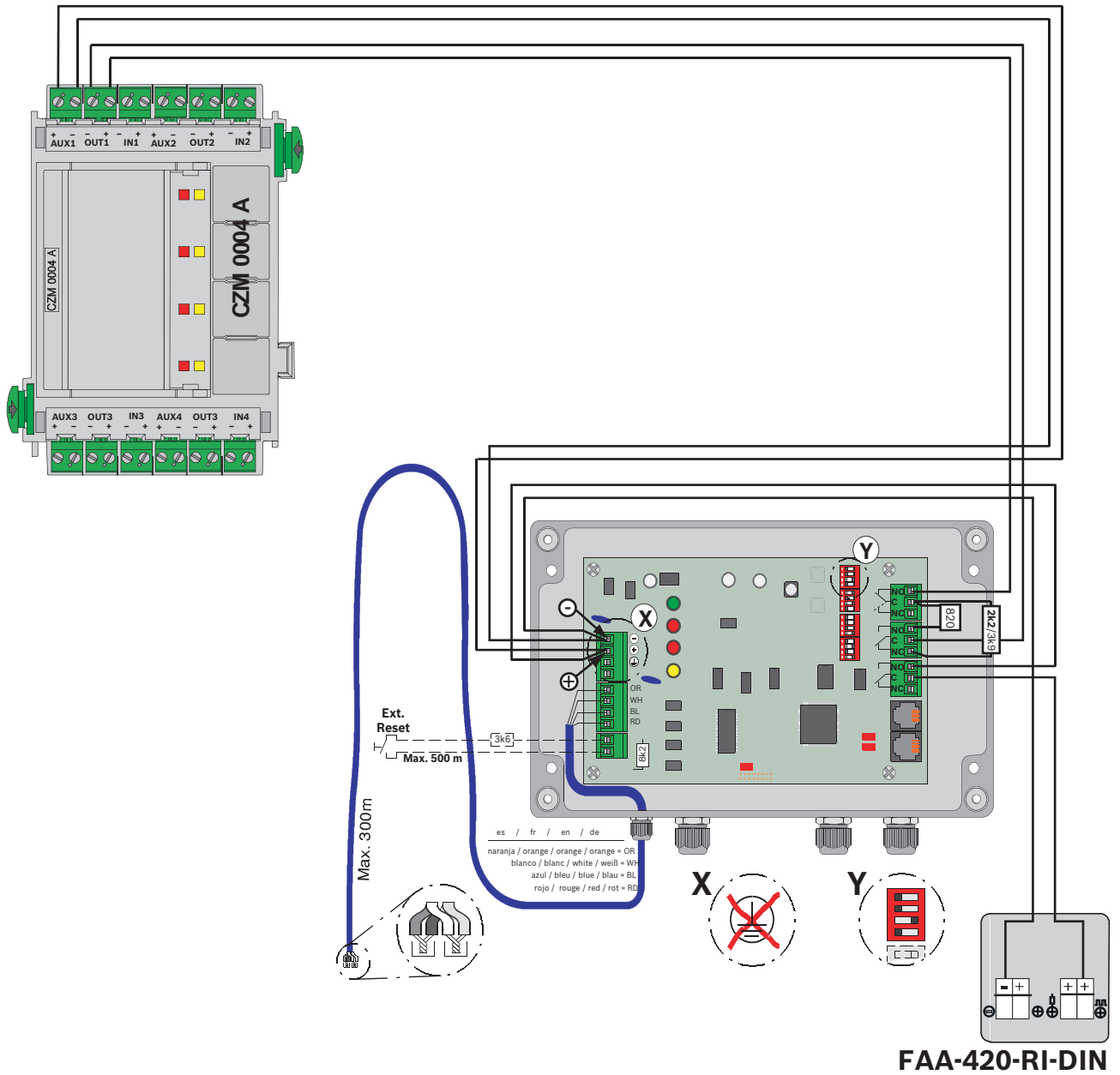
FCS-320-TP2



FCS-320-TP2

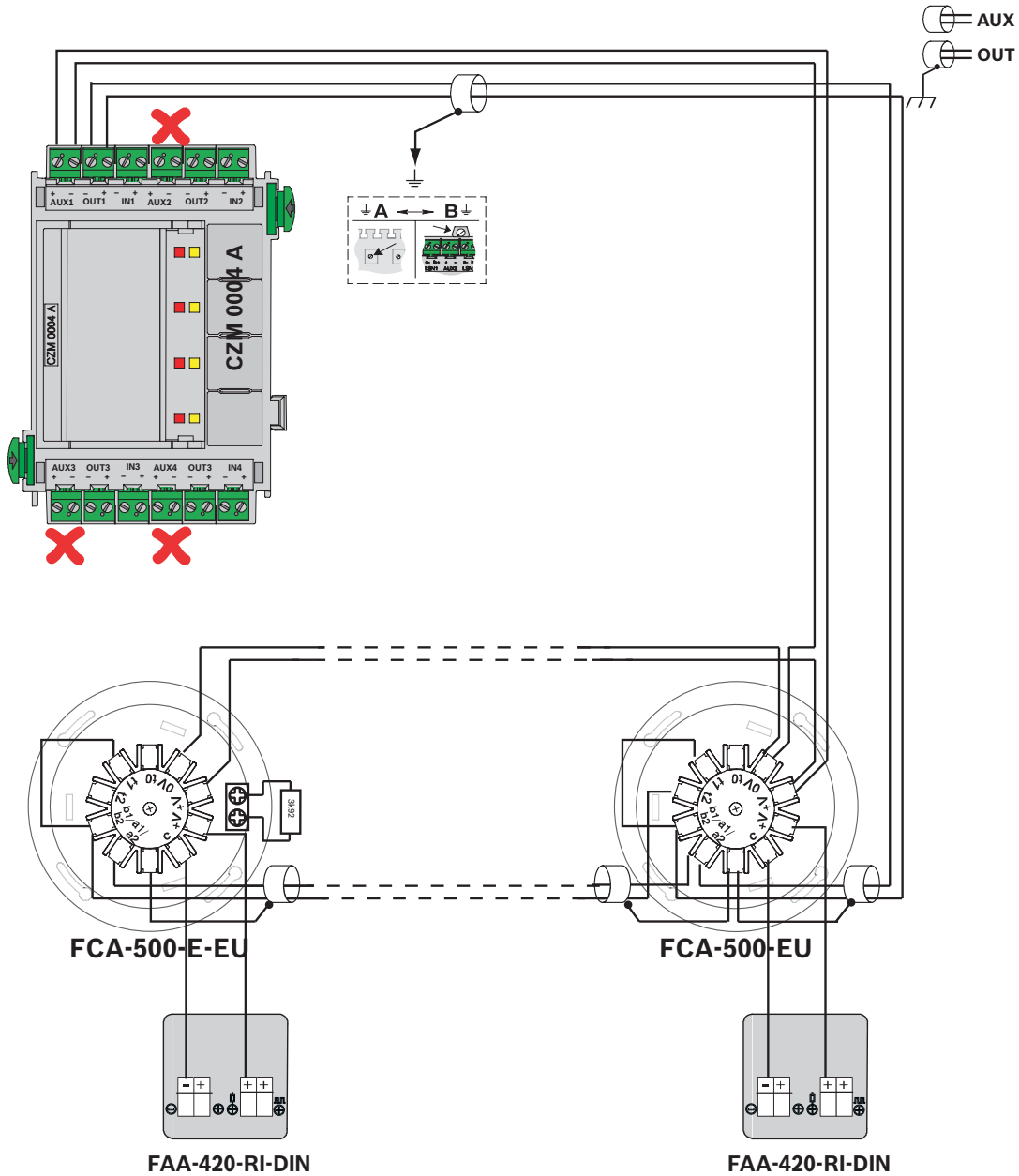


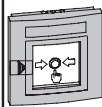
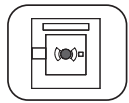
FCS-LWM-1



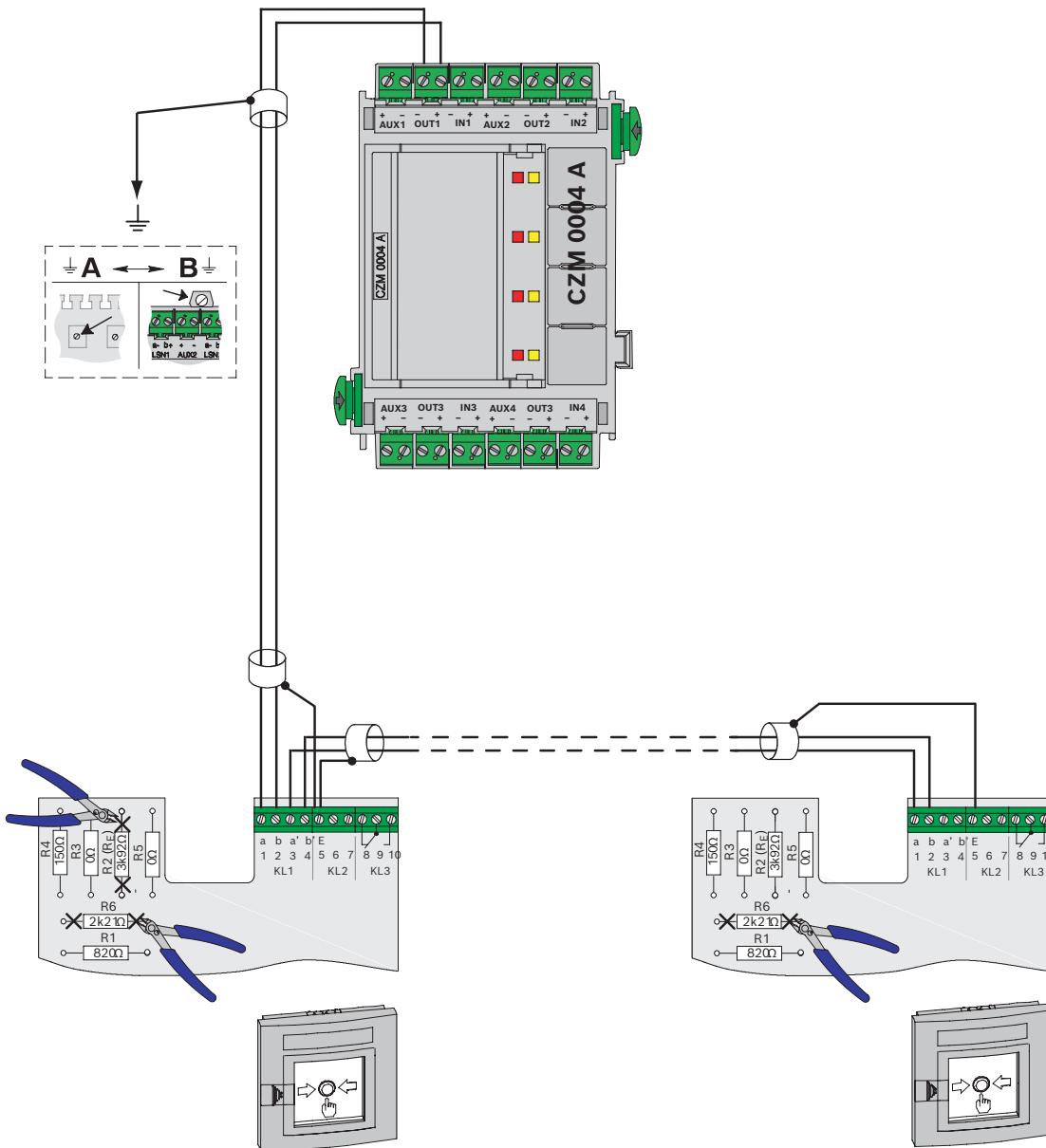
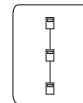


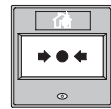
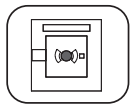
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 FCP-O 500
 FCP-O 500-P
 FCP-OC 500
 FCP-OC 500-P



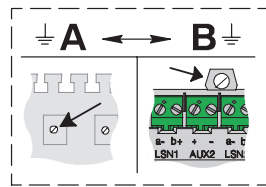
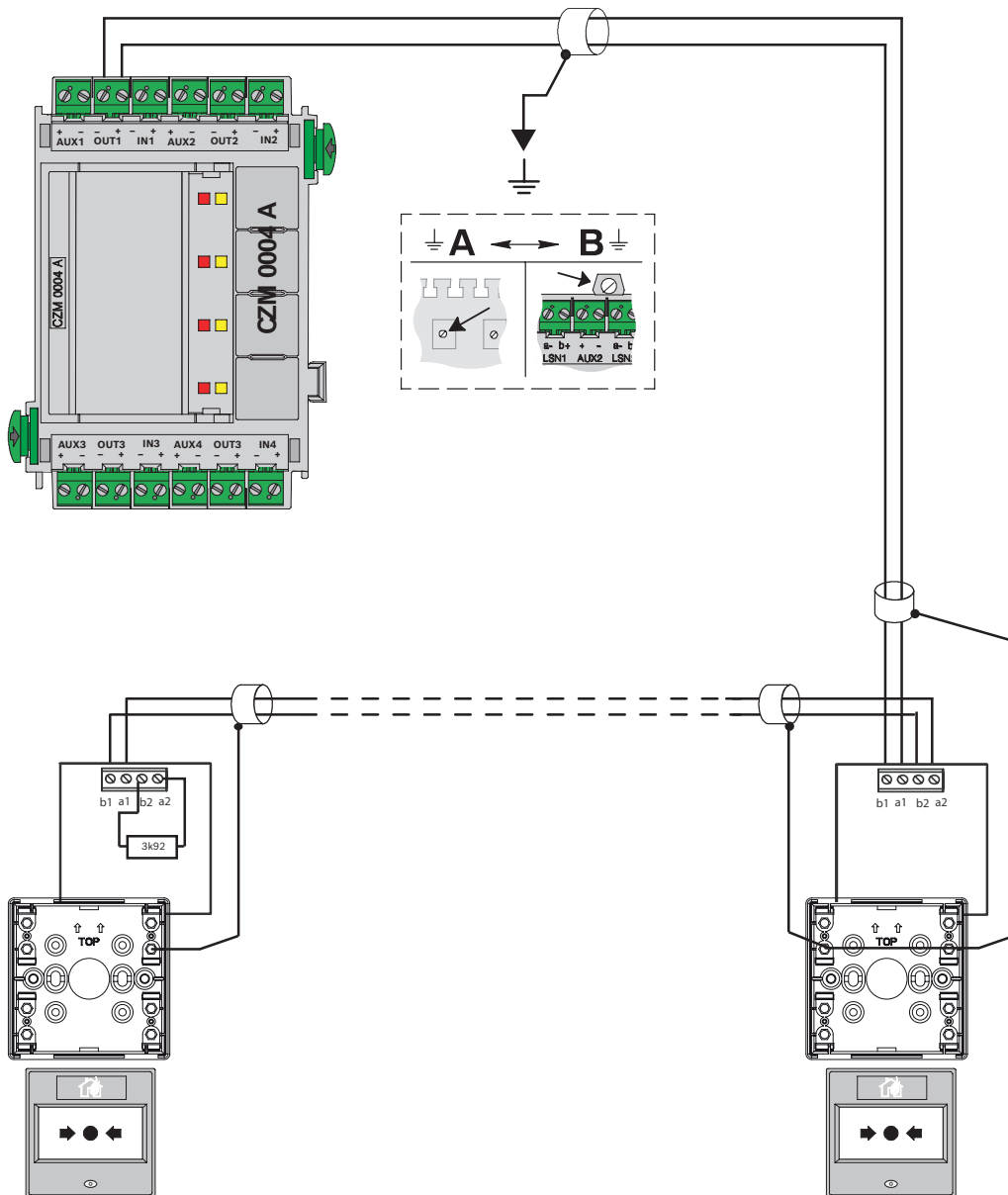
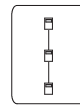


FMC-120-DKM-G-R
FMC-120-DKM-H-R
FMC-120-DKM-G-B
FMC-120-DKM-H-B
FMC-120-DKM-G-Y





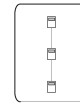
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FMC-300RW-GSRBU
FMC-300RW-GSGRD
FMC-300RW-GSRRD
FMC-300RW-GSGYE
FMC-300RW-GSRYE



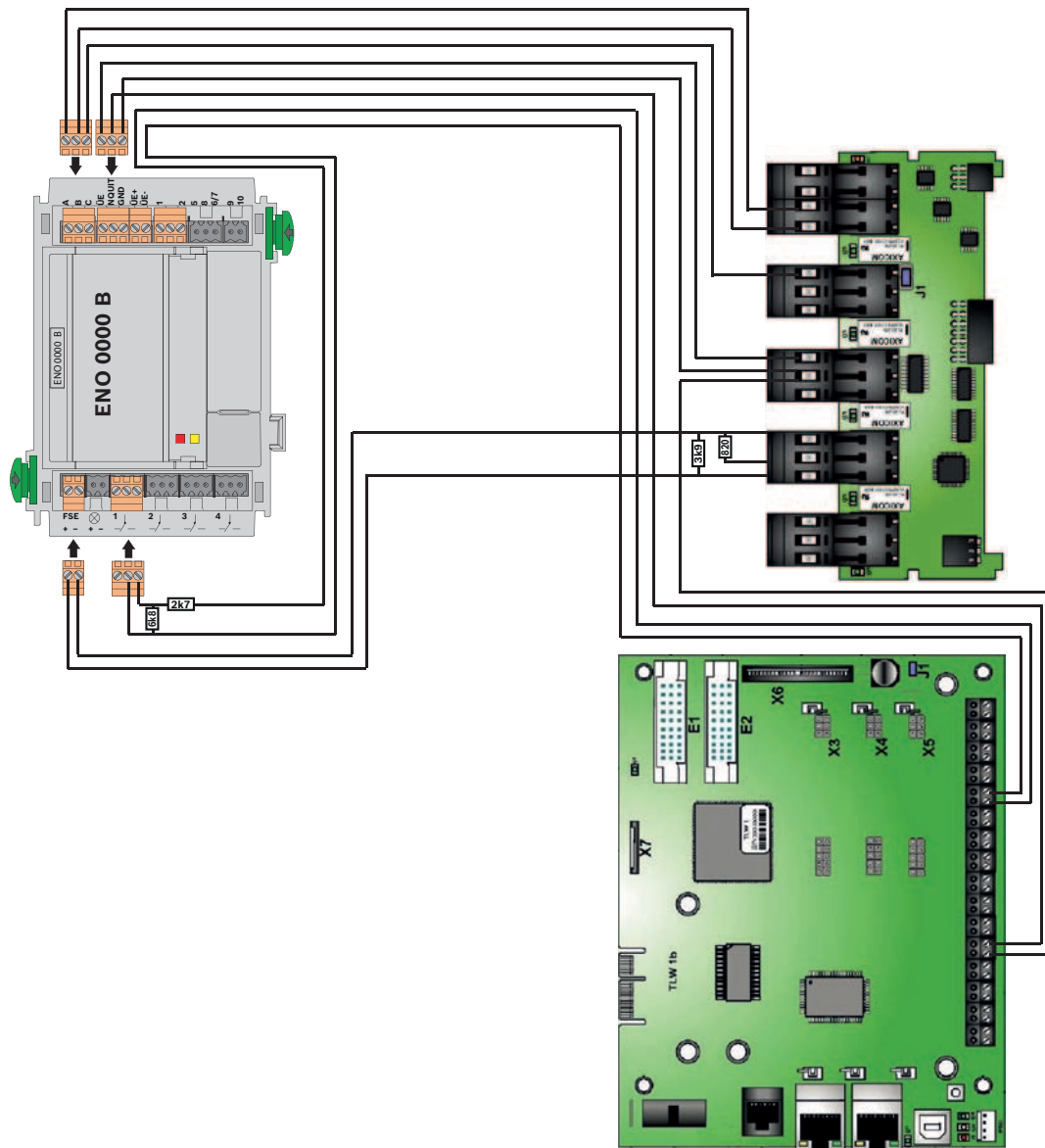
2.4.3 ENO 0000 A/B

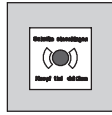
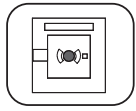


AT5000 IP/GPRS

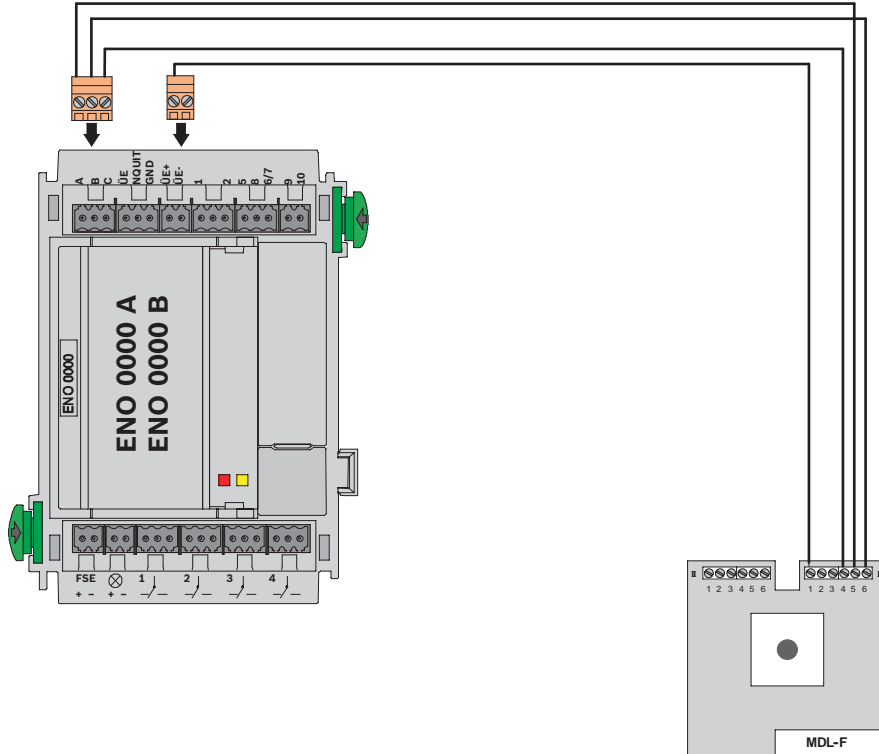


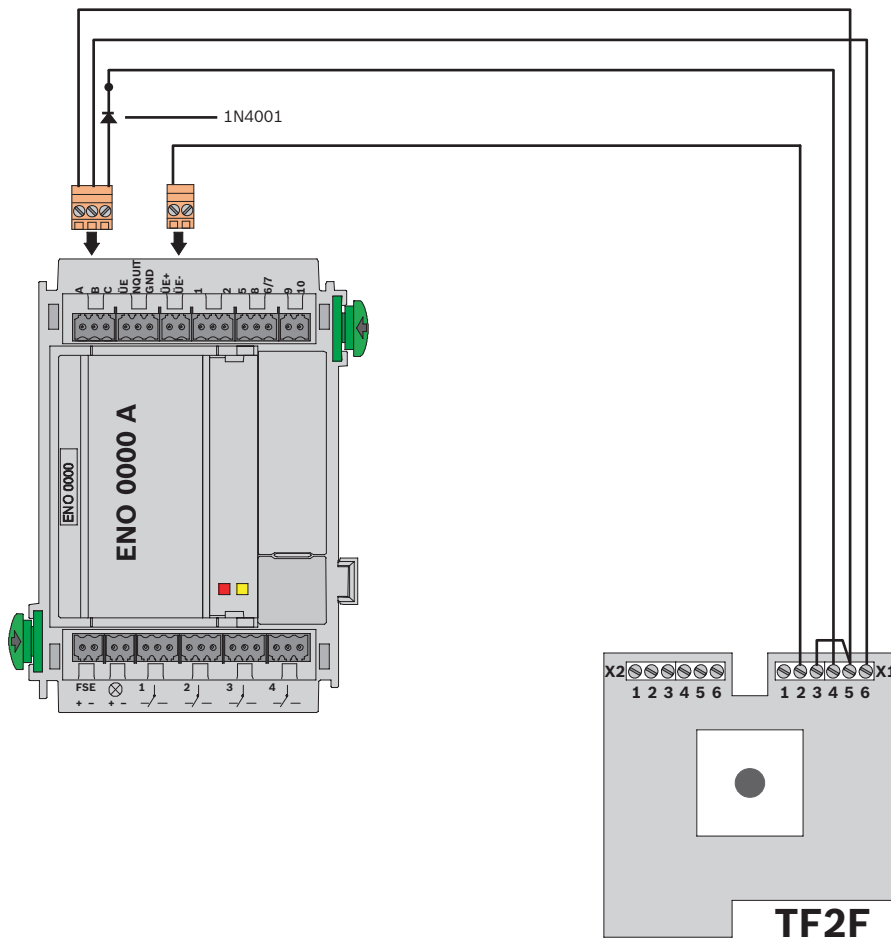
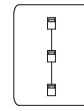
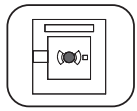
EN 54-2

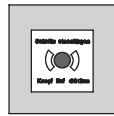
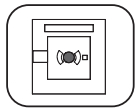




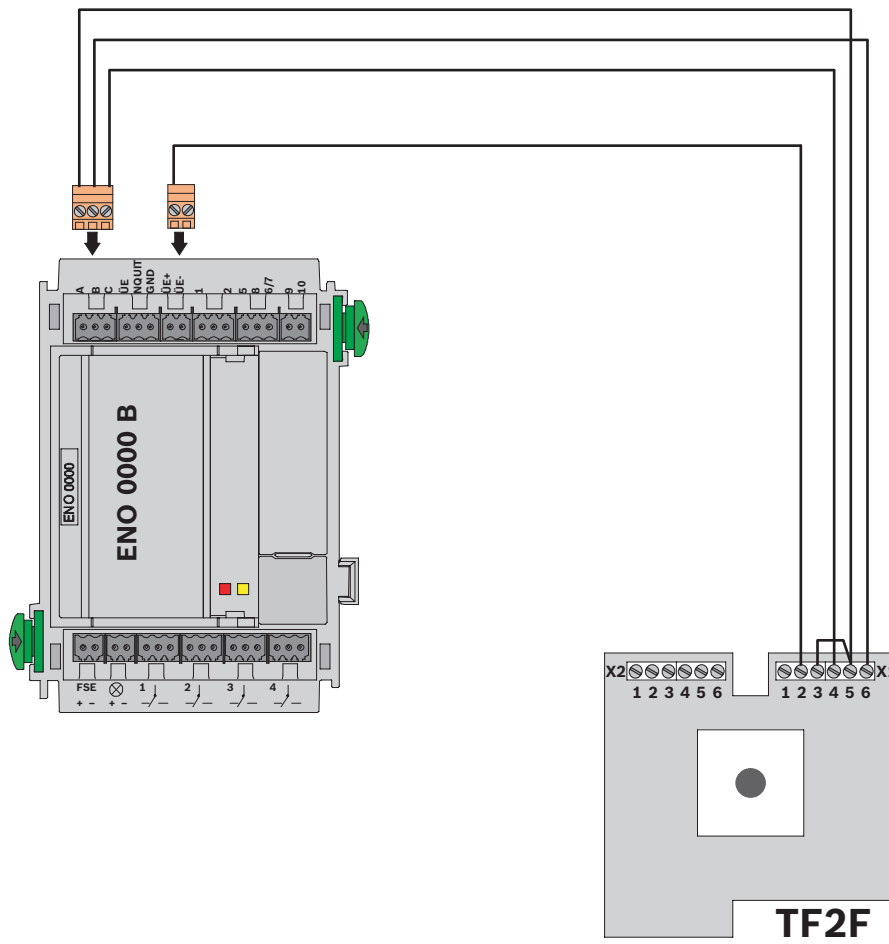
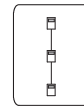
MDL-F

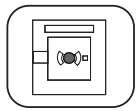




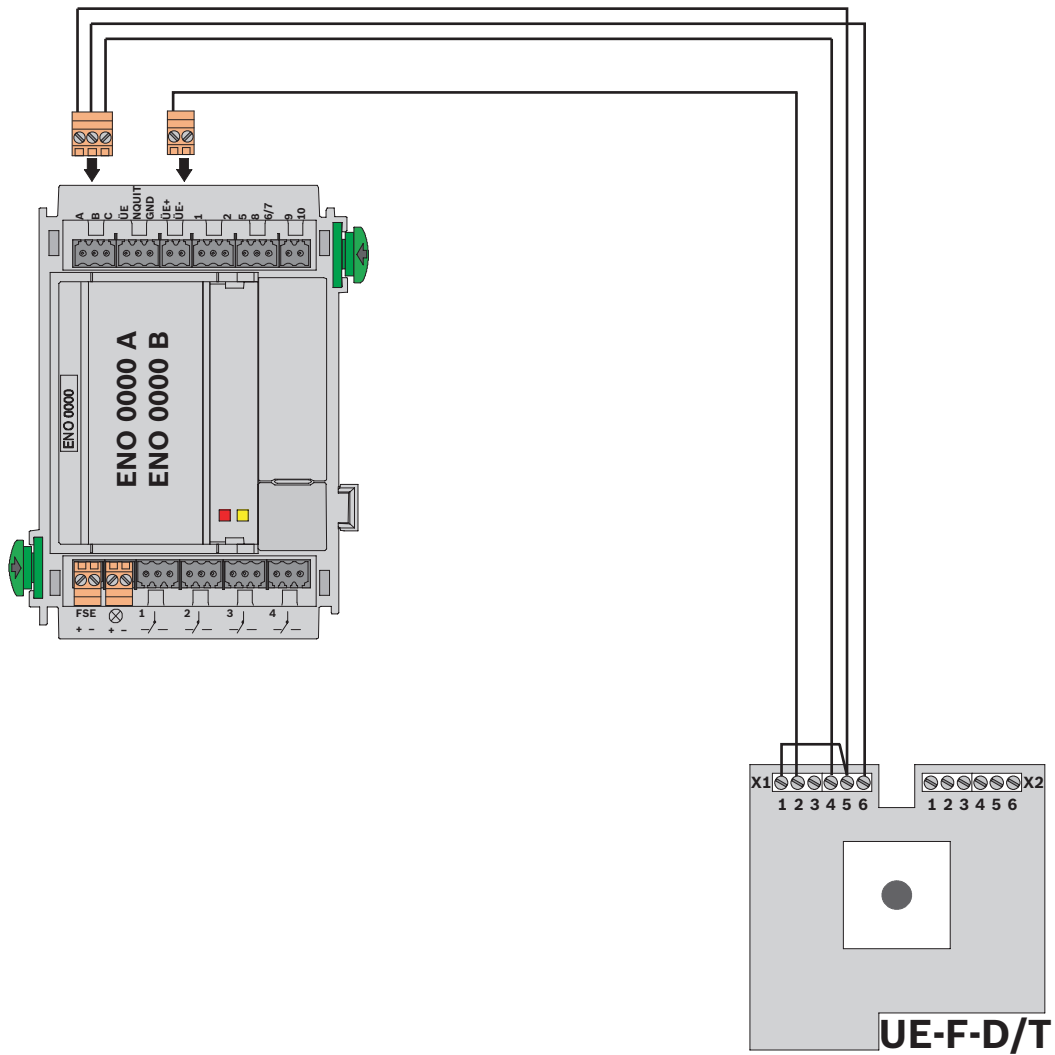


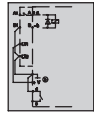
TF2F



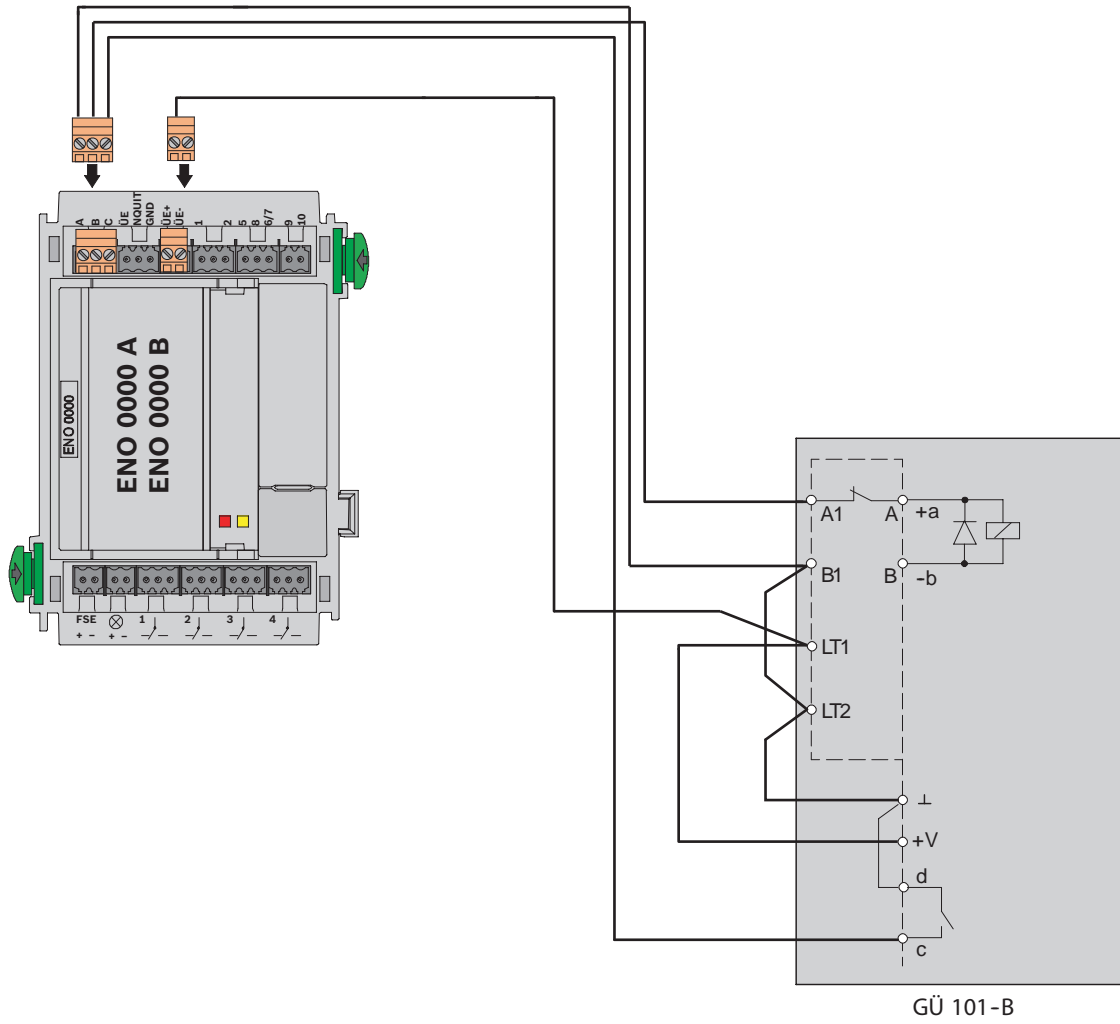
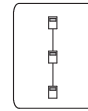


UE-F-D/T

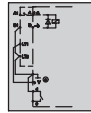




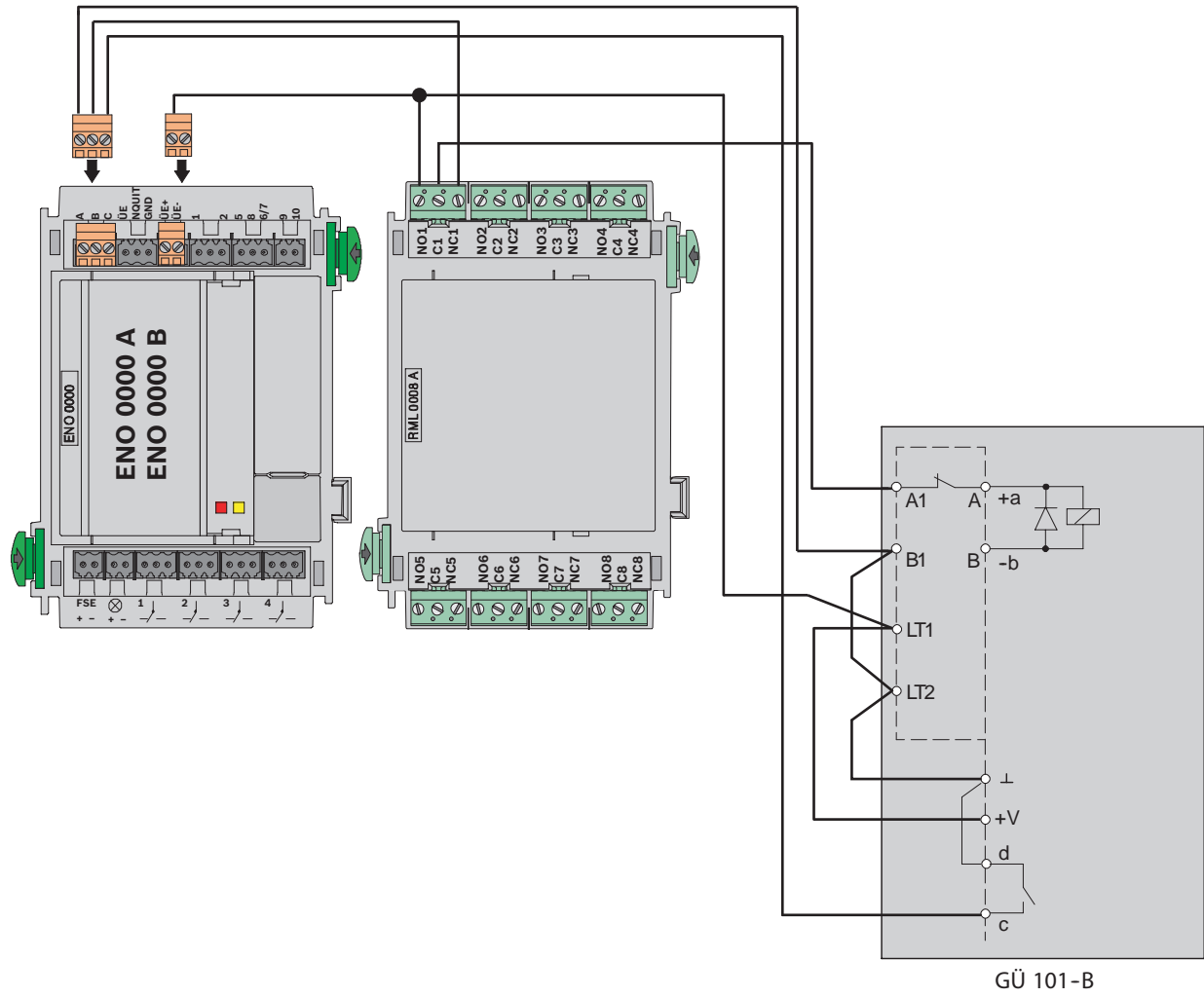
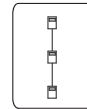
GÜ 101-B



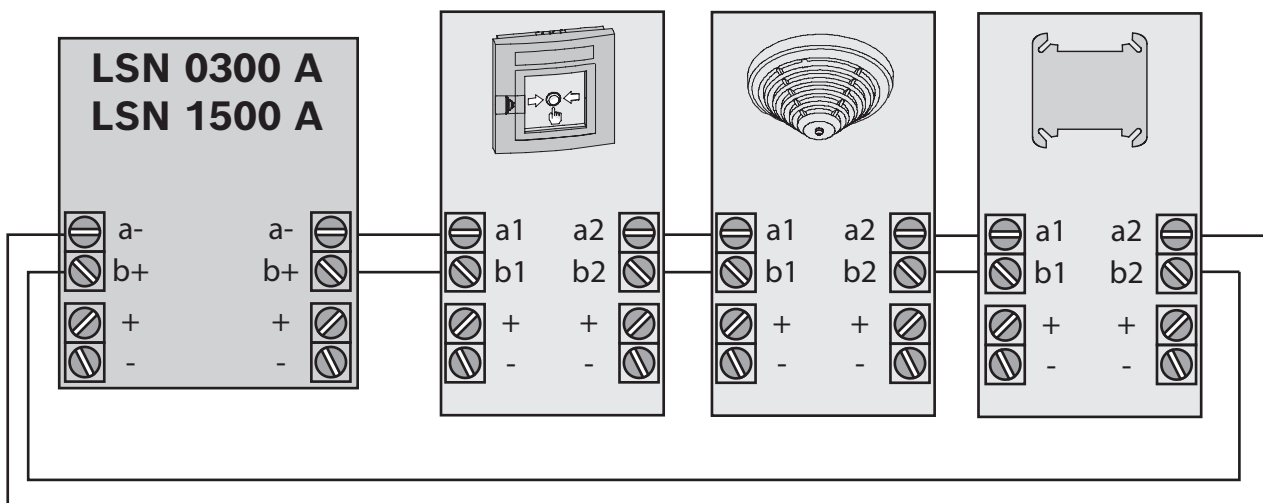
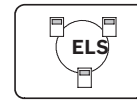
GÜ 101-B

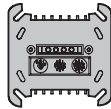
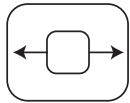


GÜ 101-B

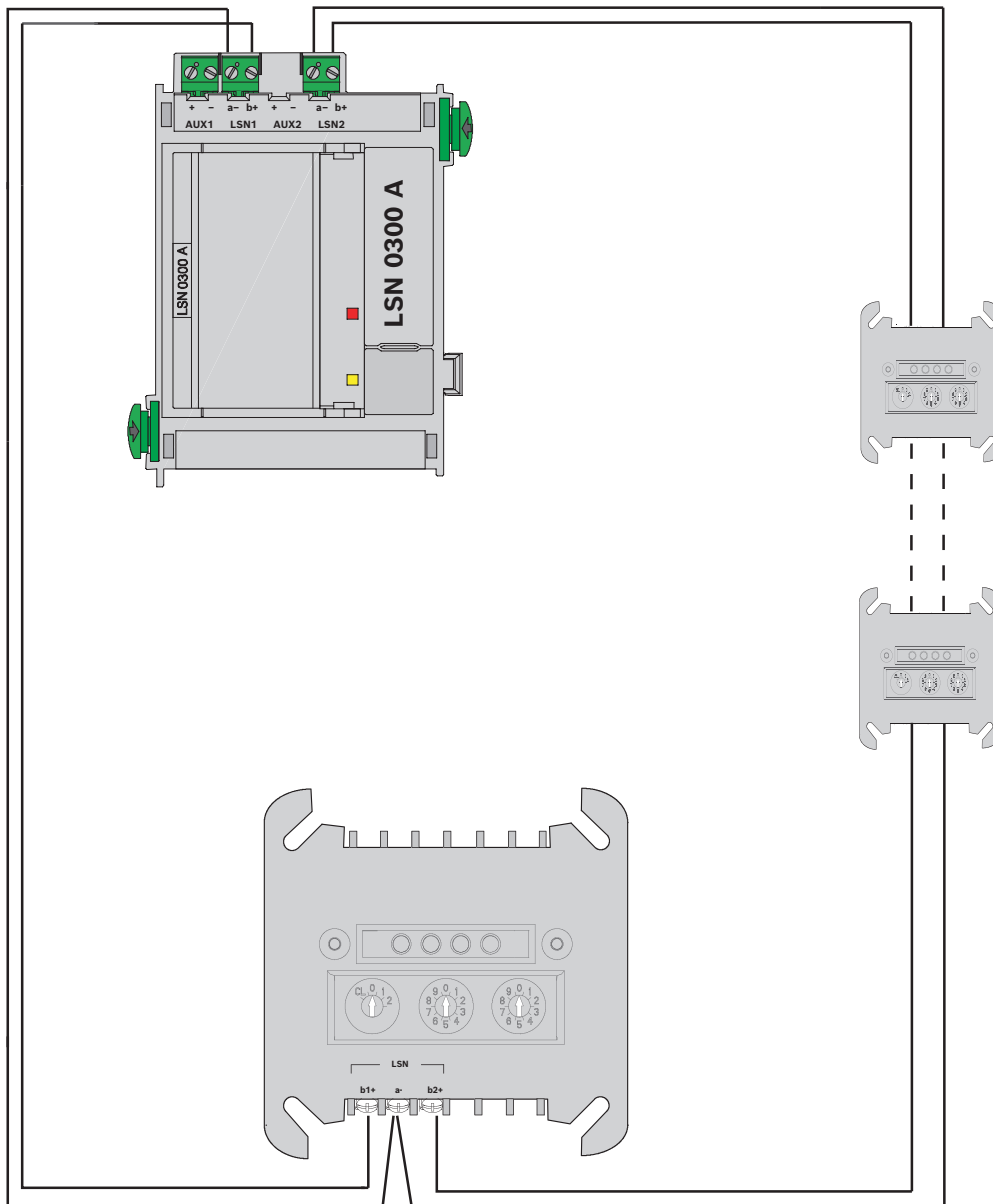
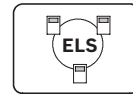


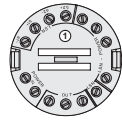
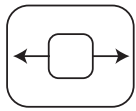
2.4.4 LSN 0300 A



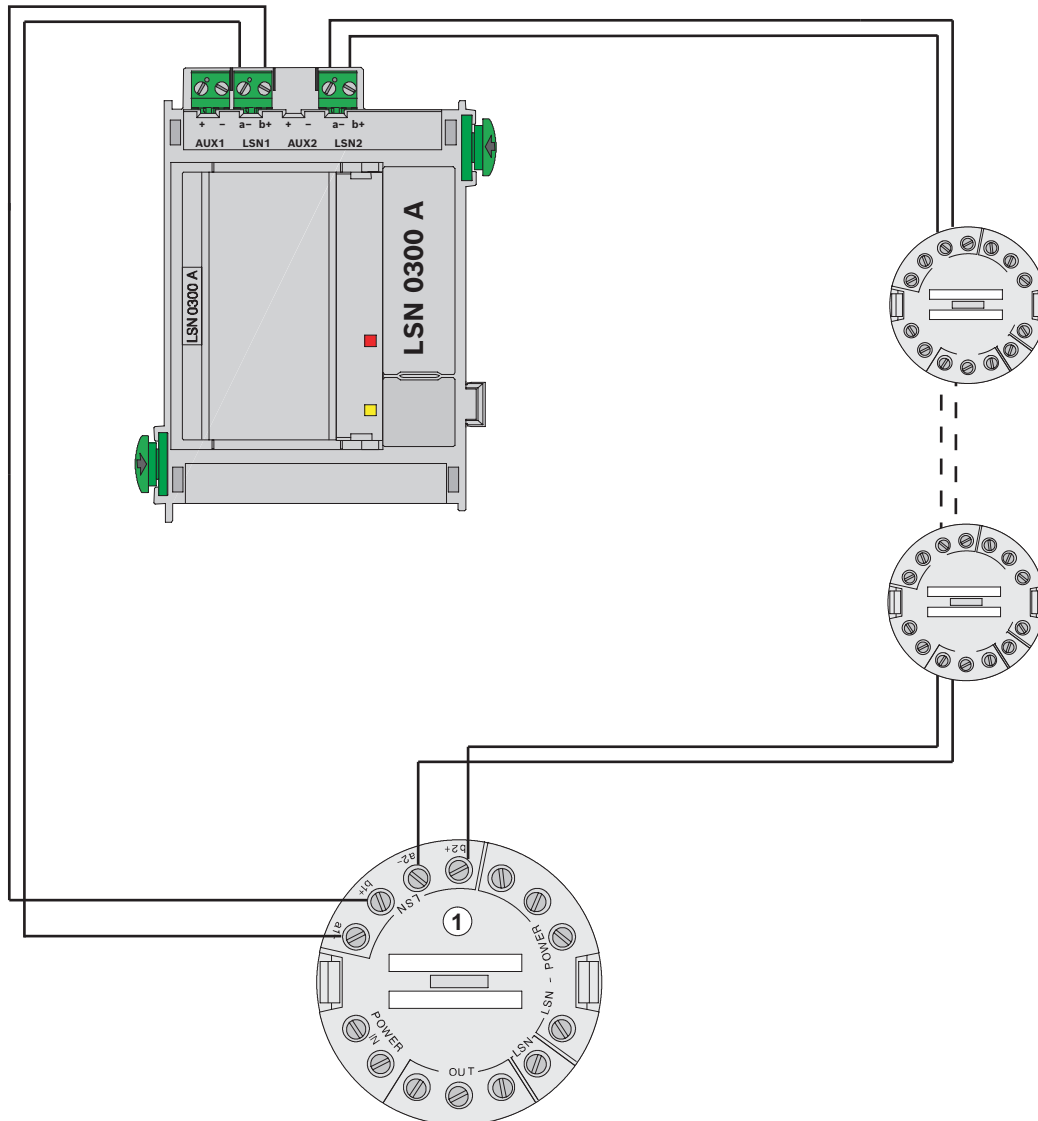
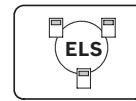


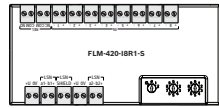
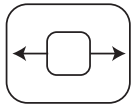
FLM-I 420-S
 FLM-420-I2-D
 FLM-420-O1I1-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D



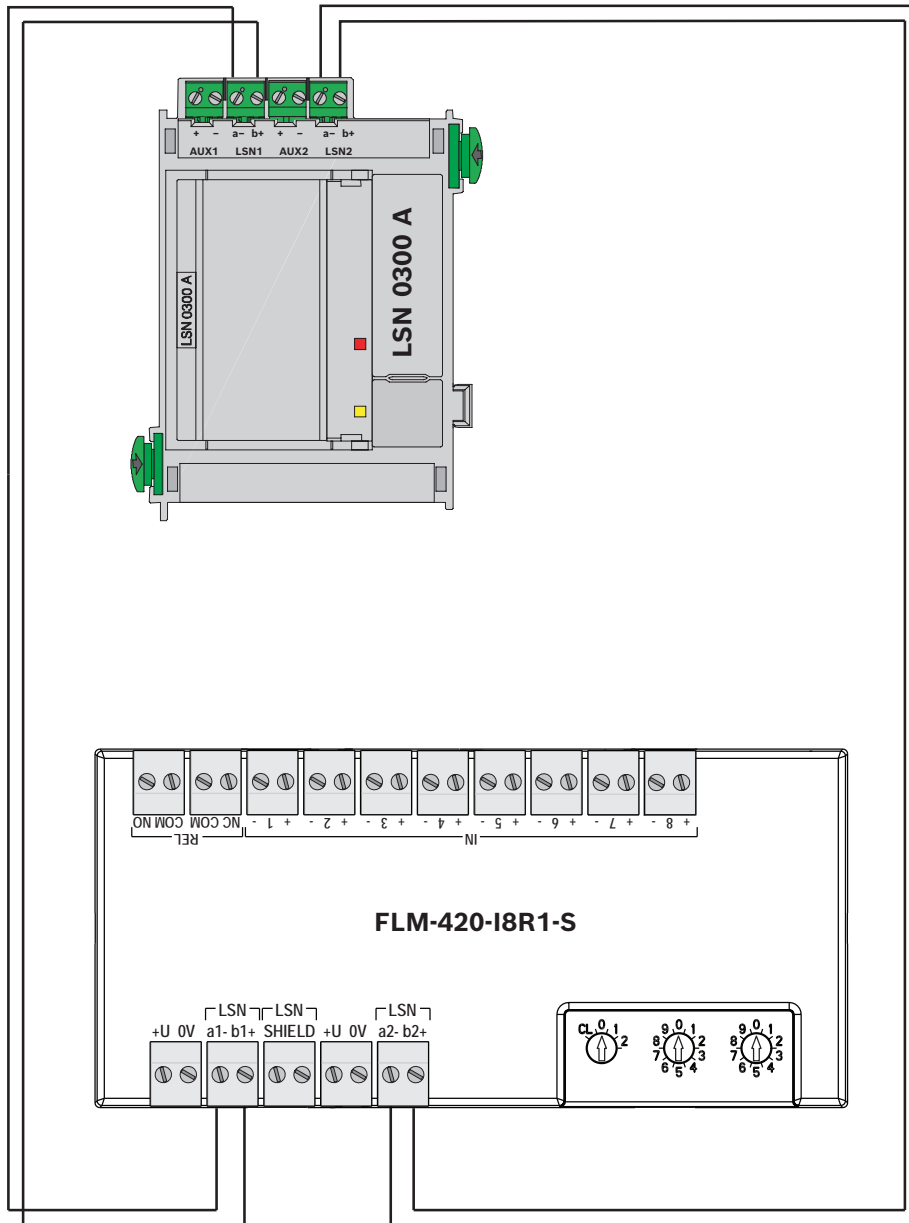
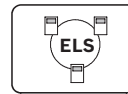


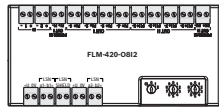
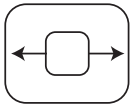
FLM-420-I2-E/W
FLM-420-RLV1-E



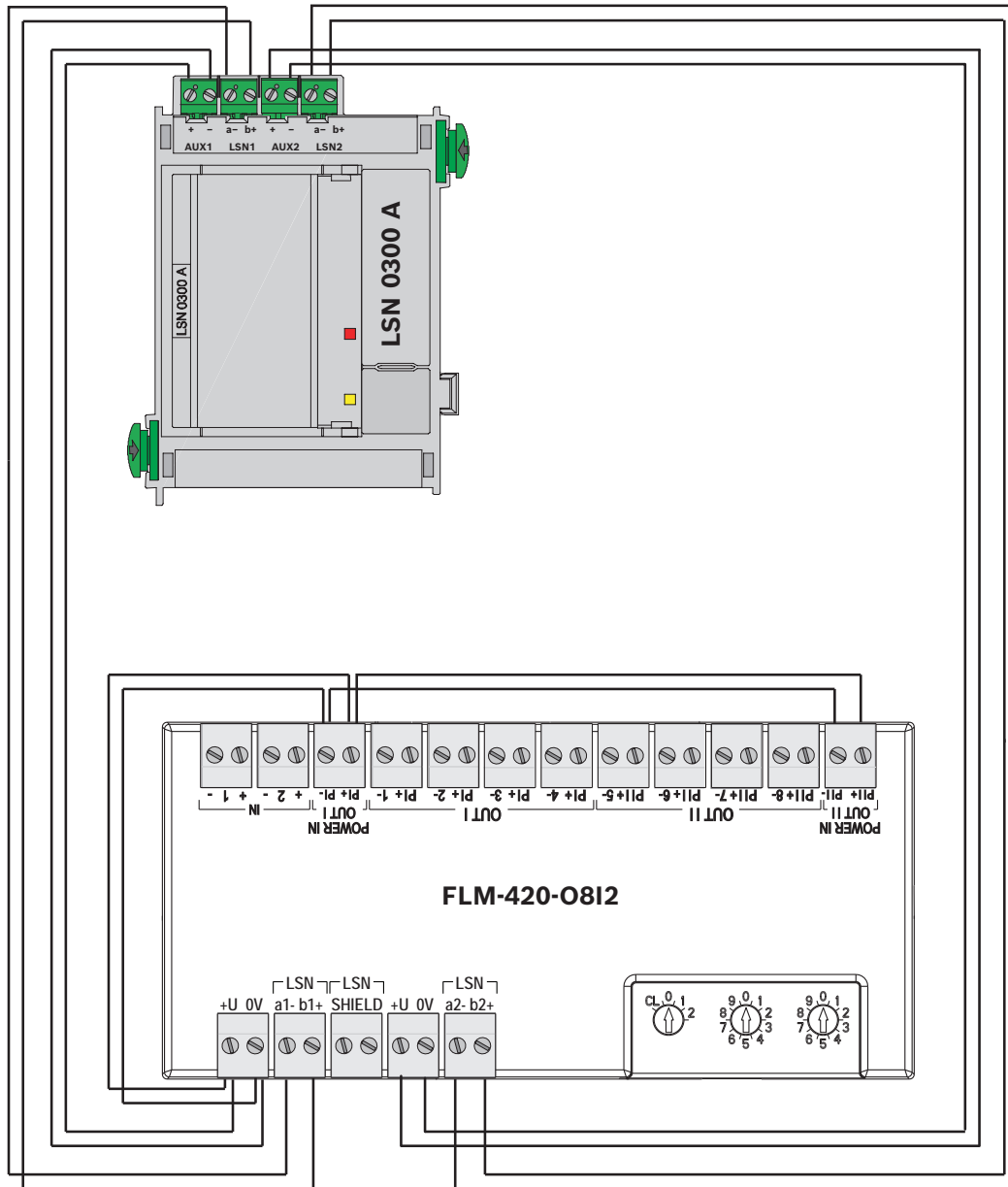
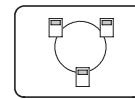


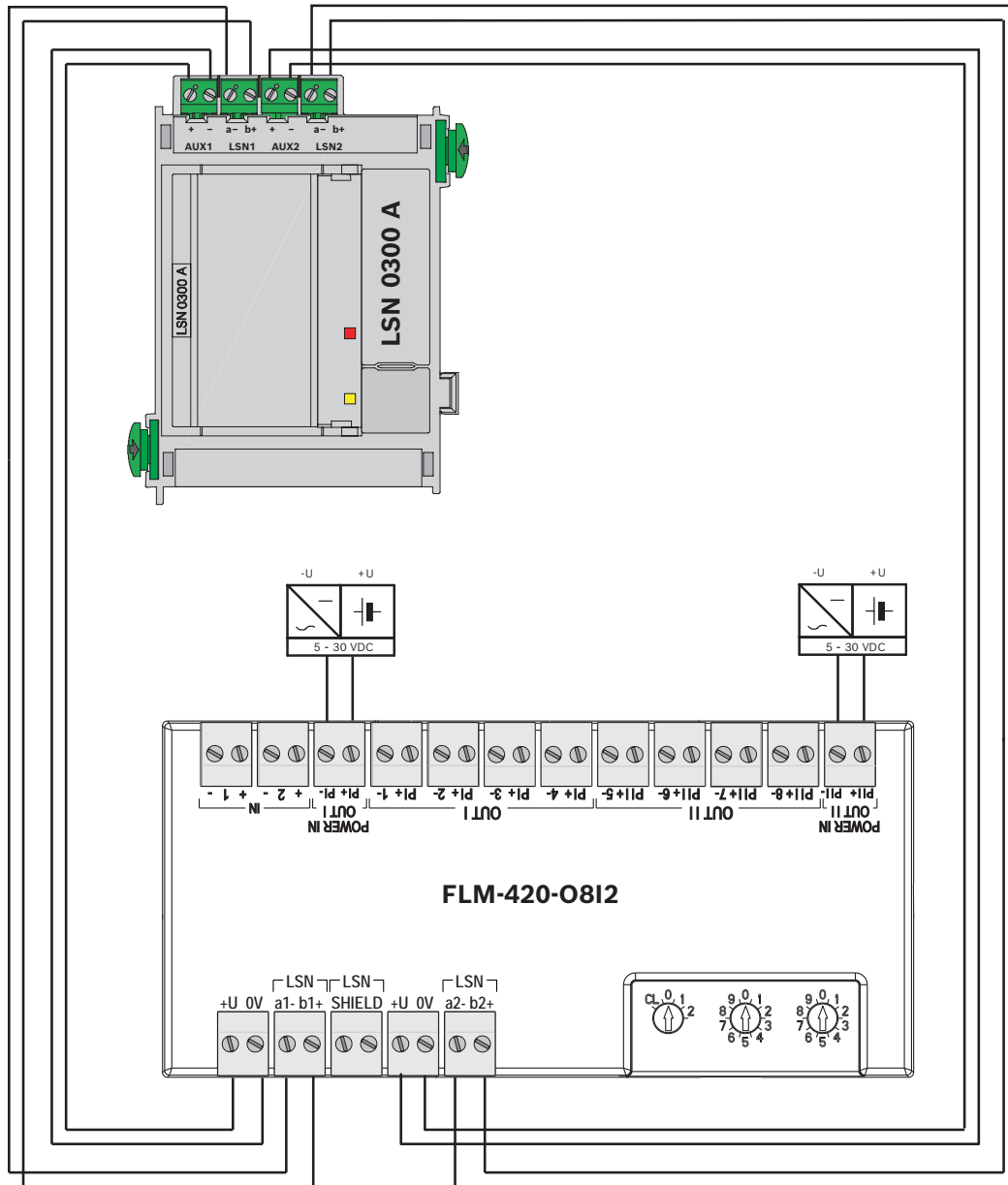
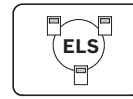
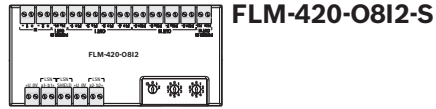
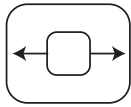
FLM-420-18R1-S

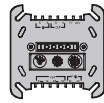
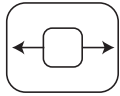




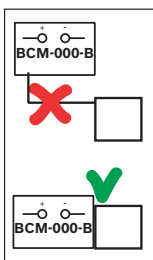
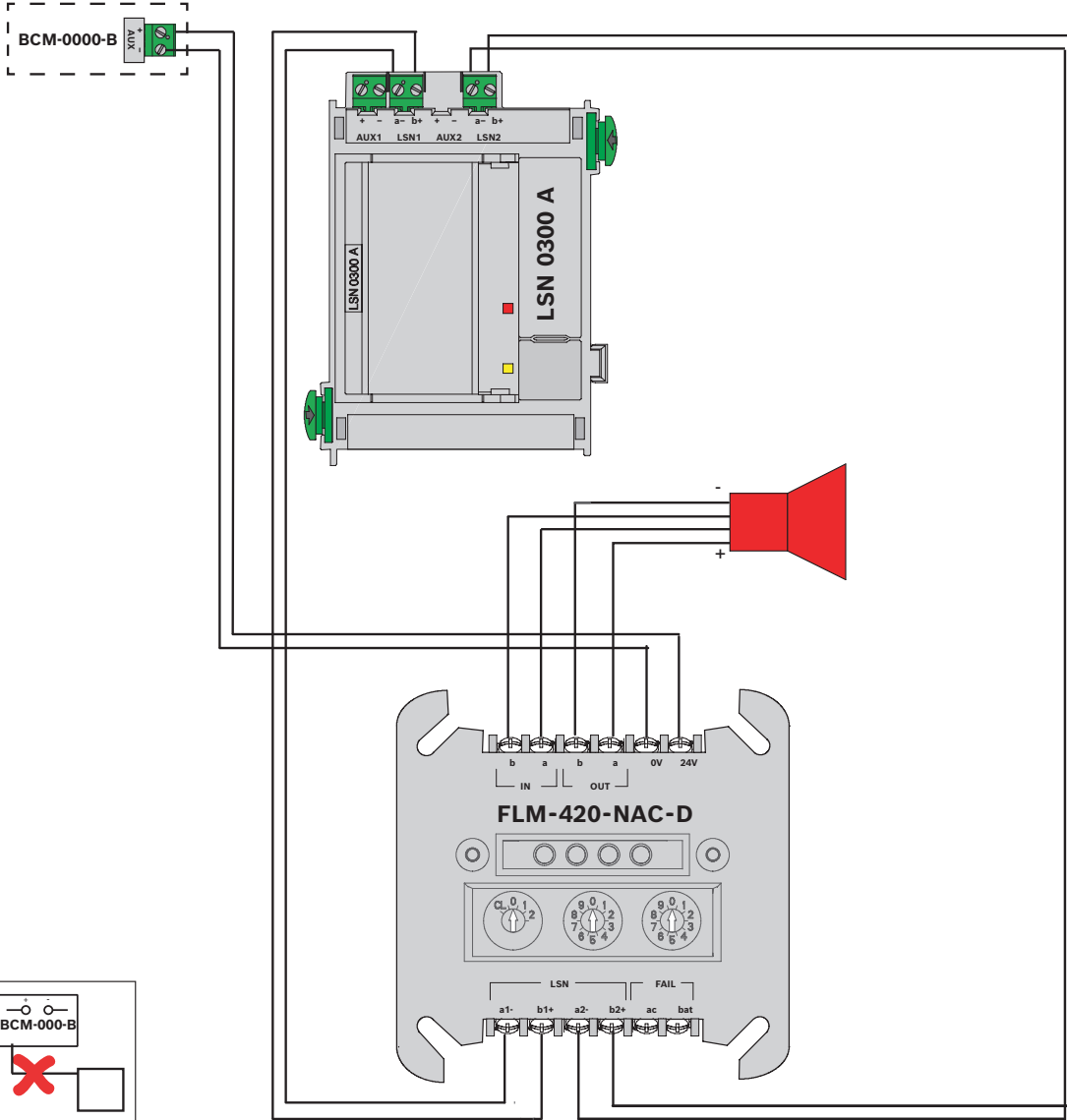
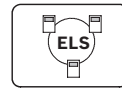
FLM-420-0812-S

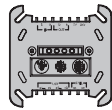
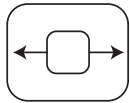




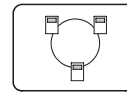


FLM-420-NAC-D/S

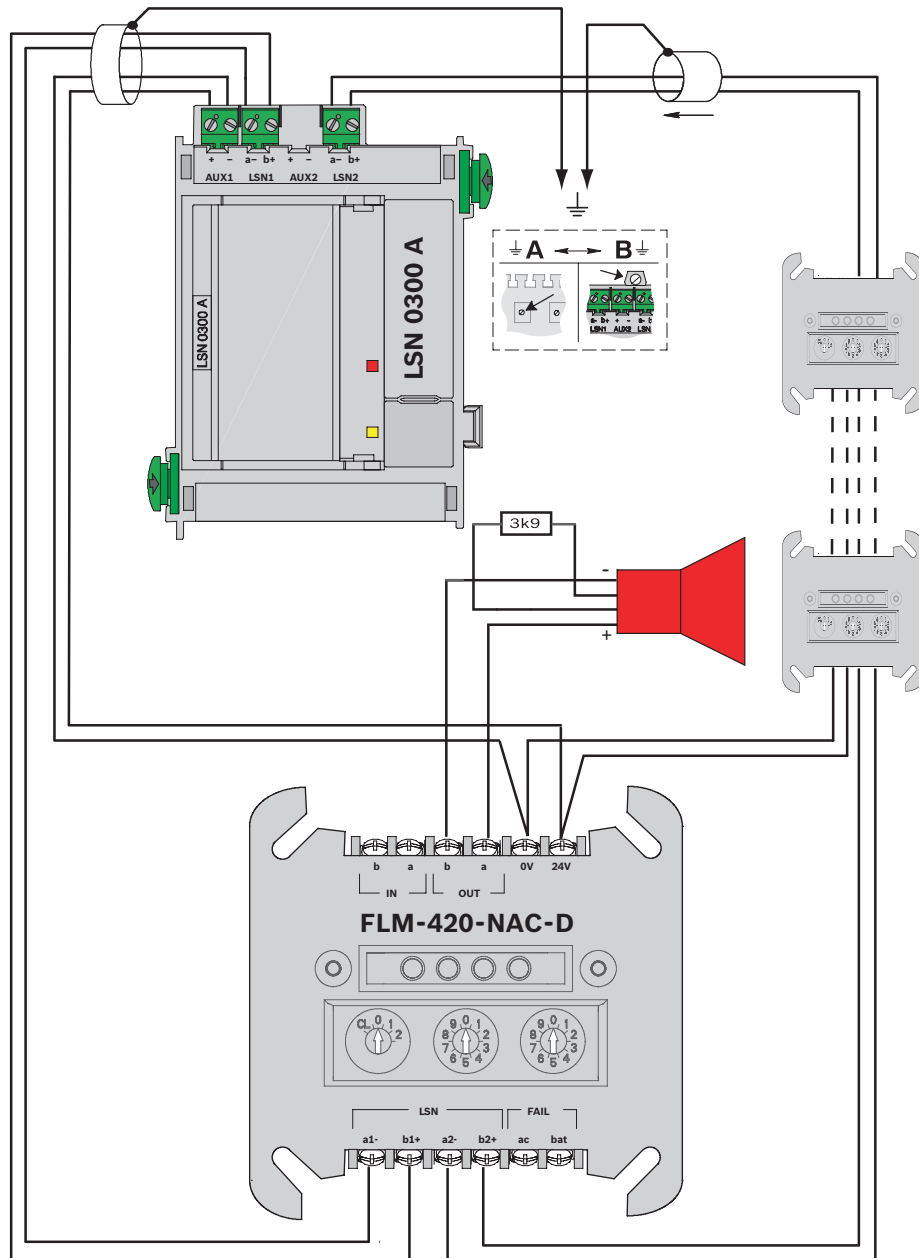


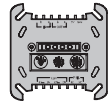
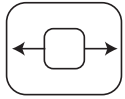


FLM-420-NAC-D/S

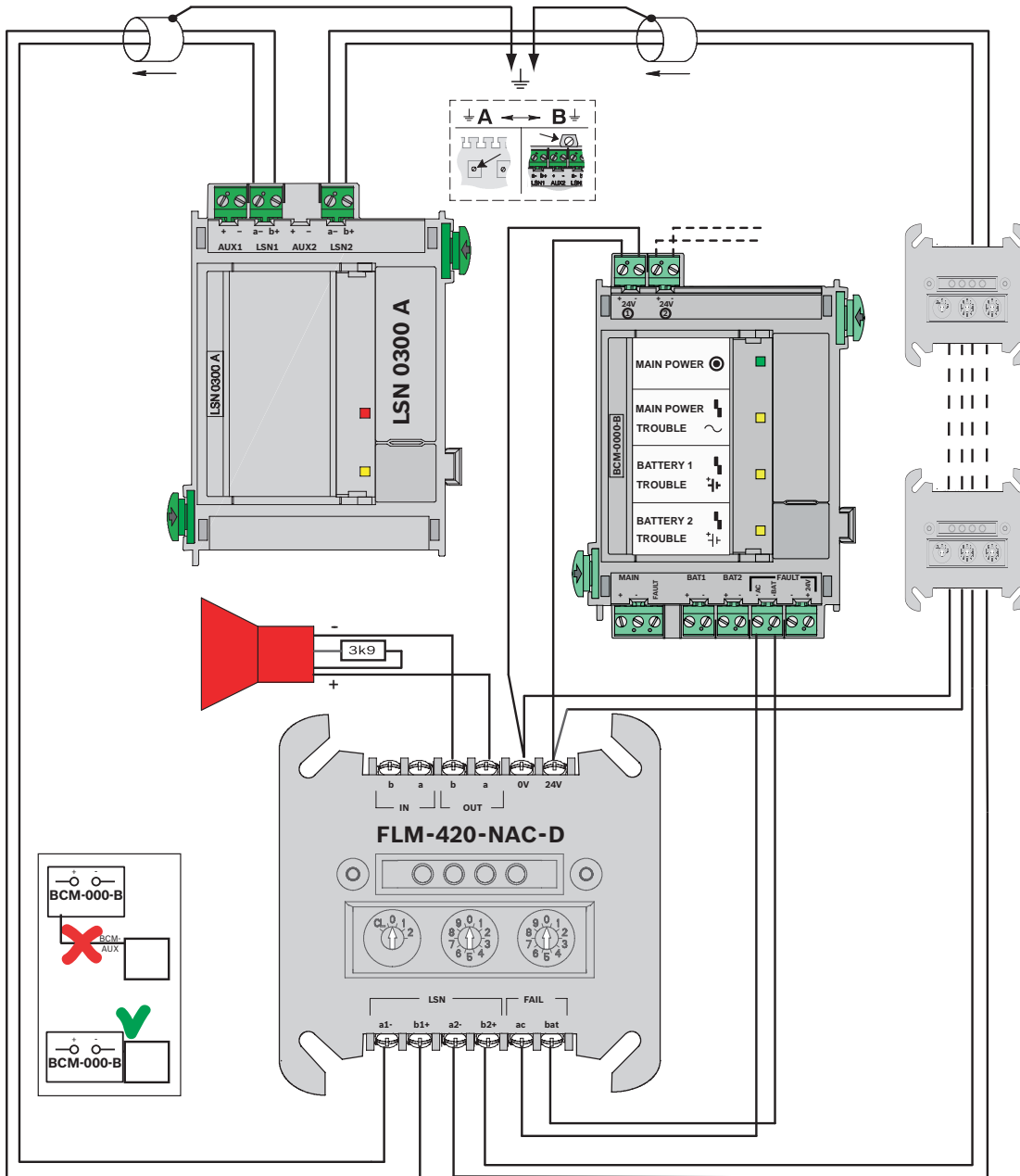
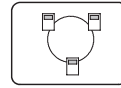


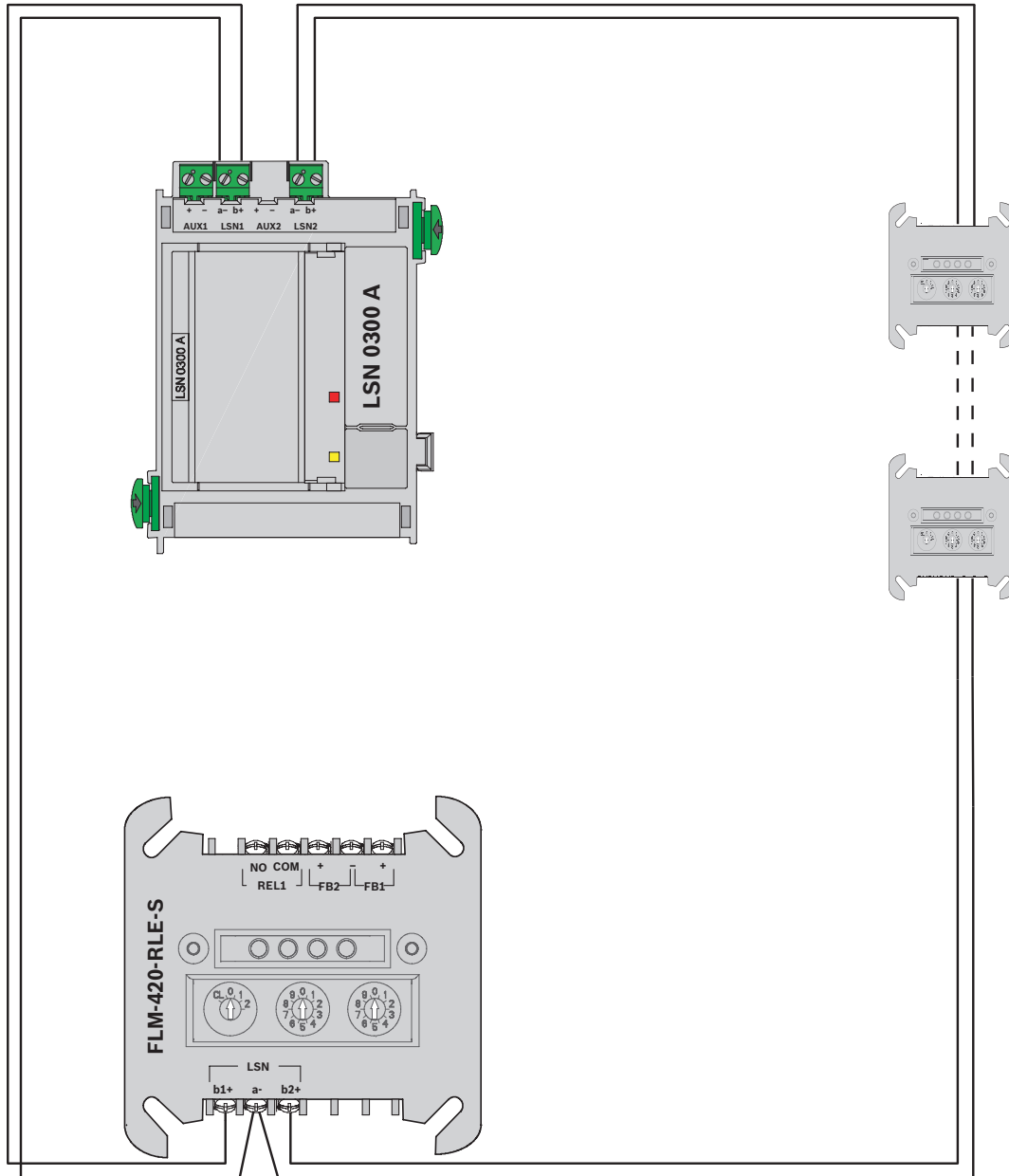
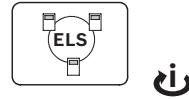
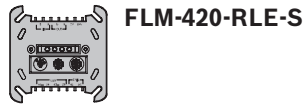
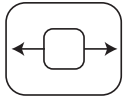
EN 54-2

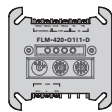
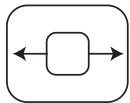




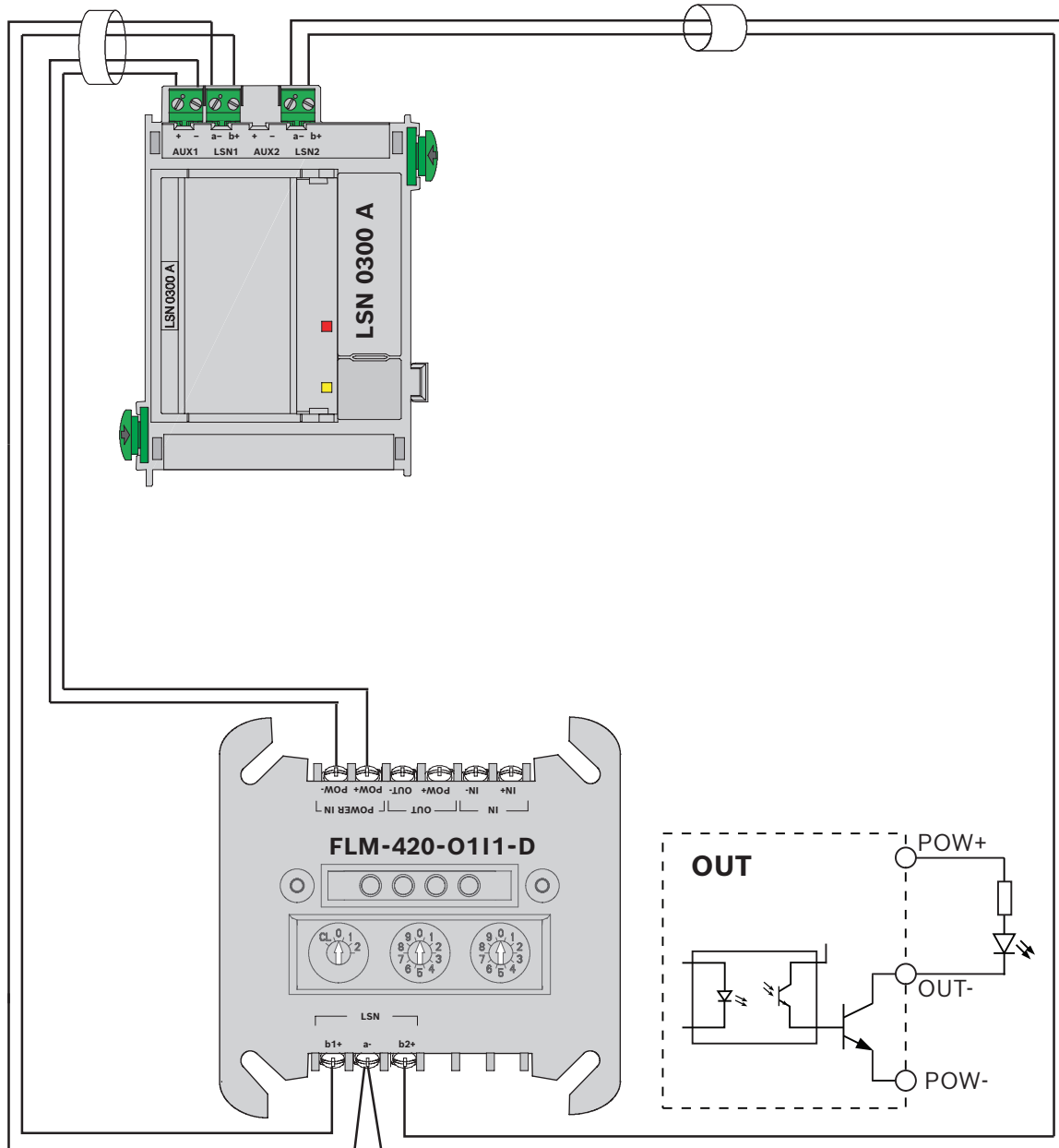
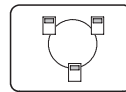
FLM-420-NAC-D/S

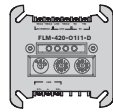
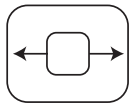




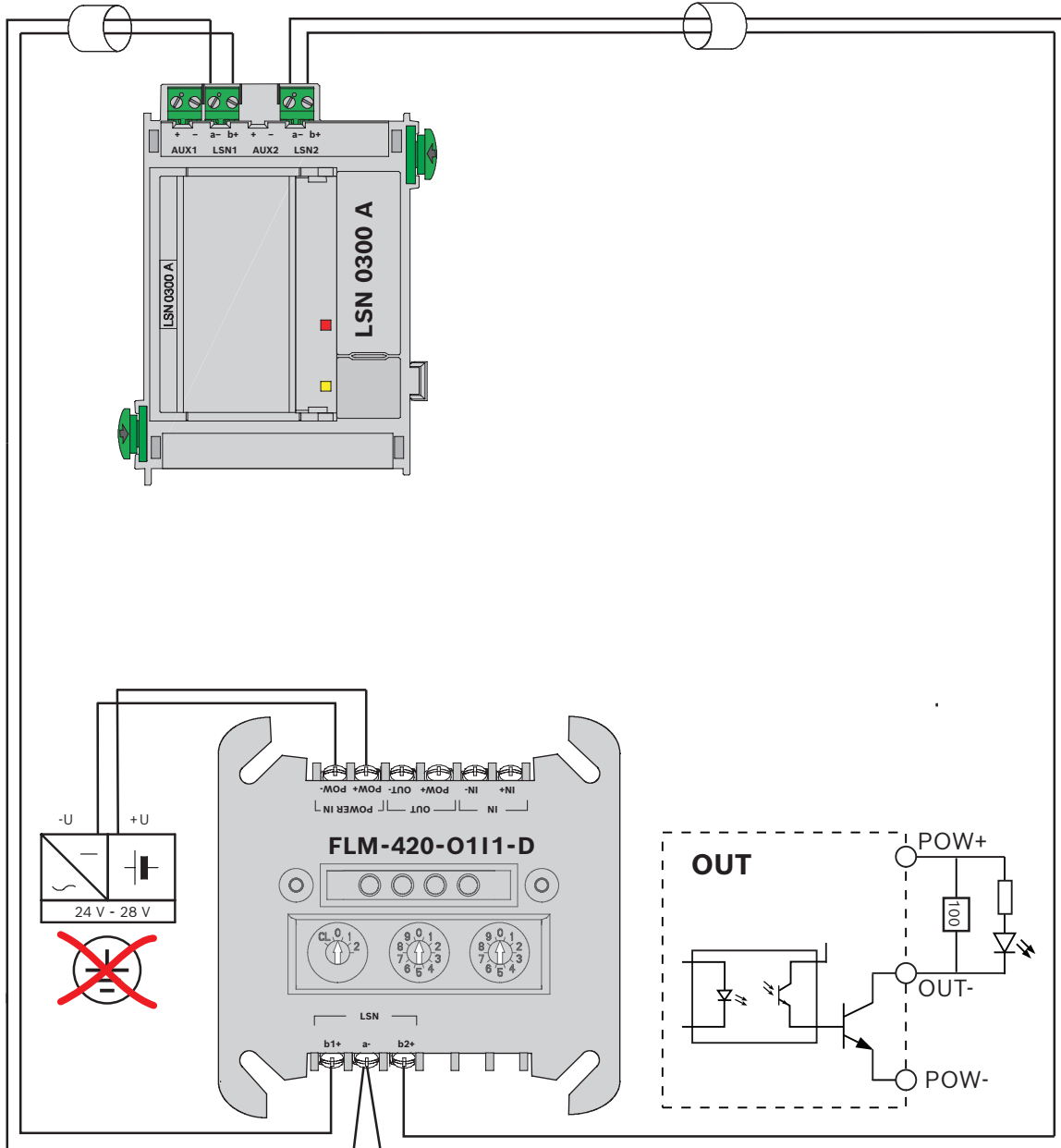
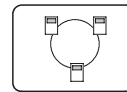


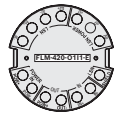
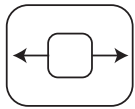
FLM-420-O111-D



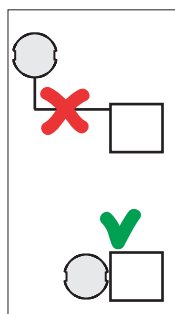
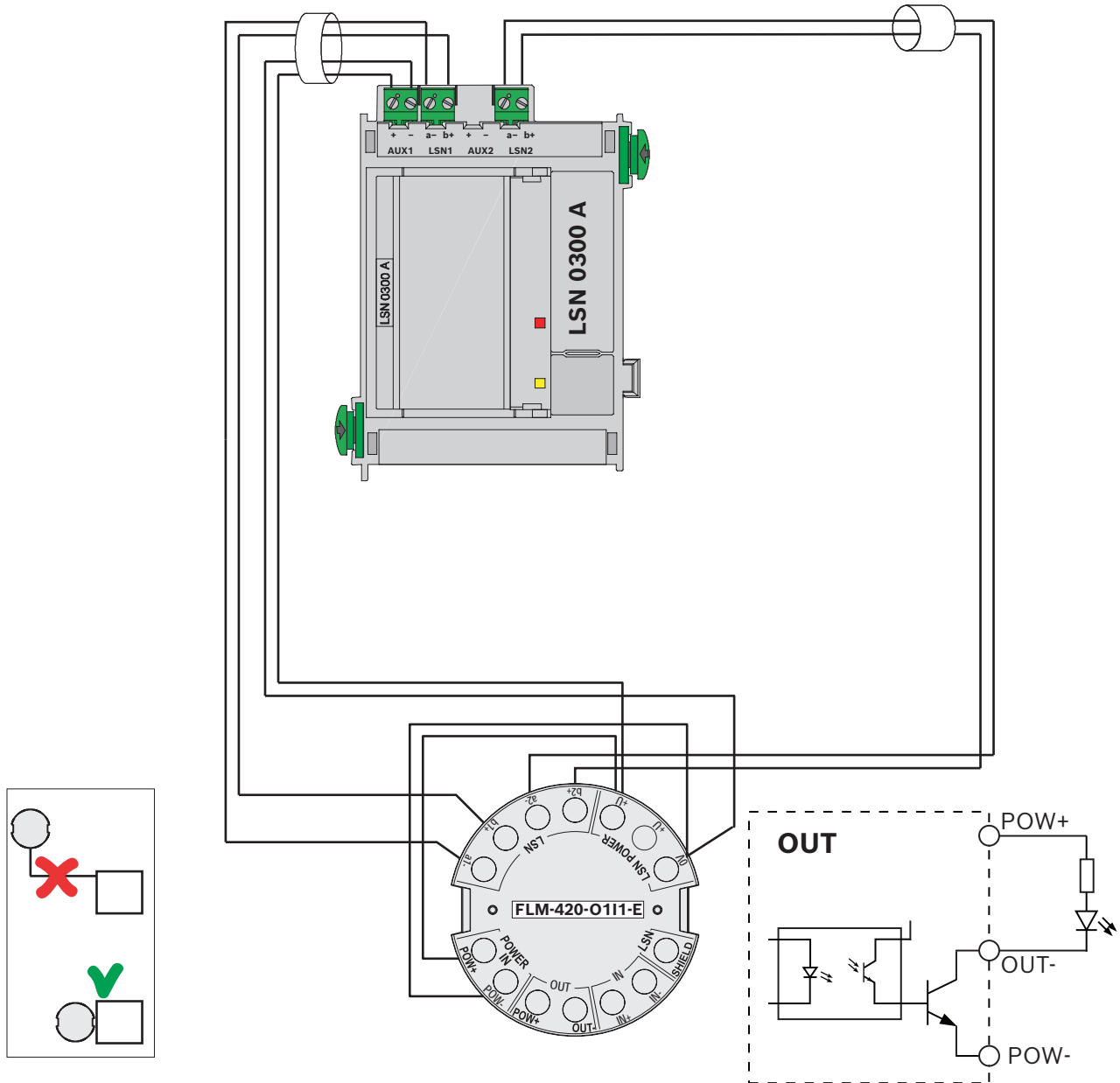
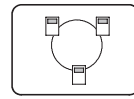


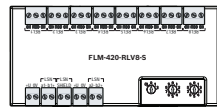
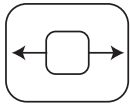
FLM-420-O111-D



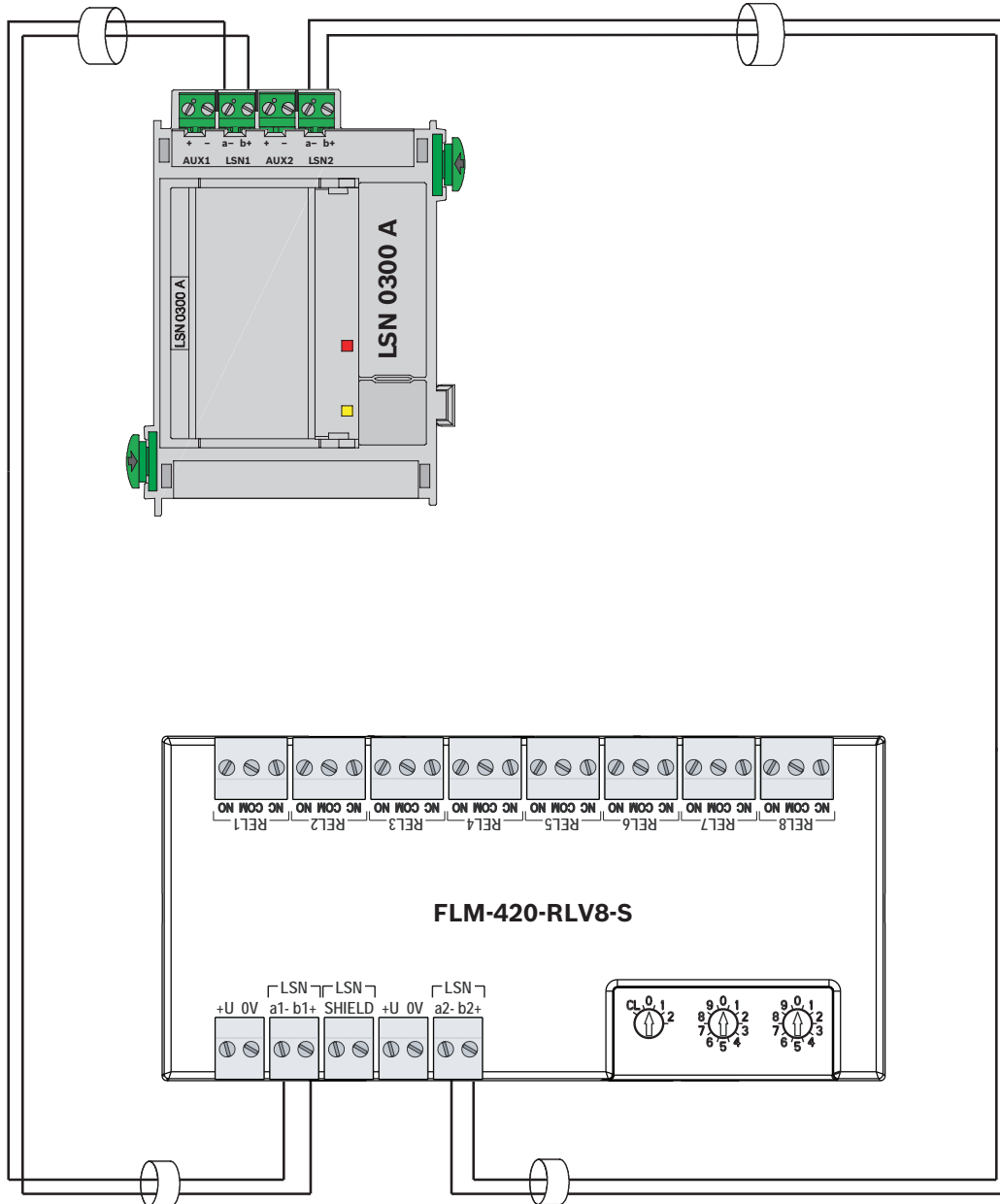
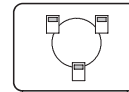


FLM-420-O111-E



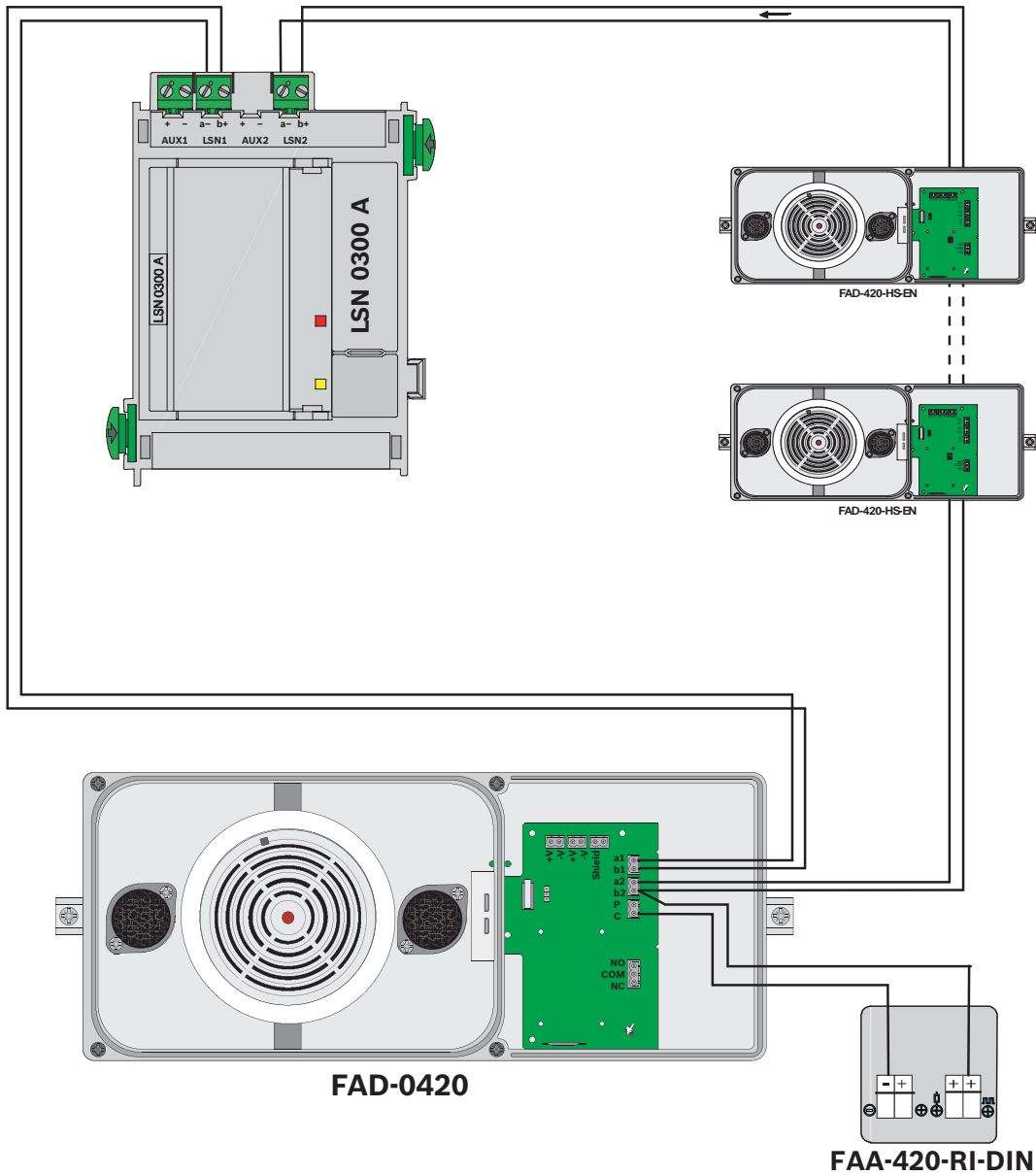


FLM-420-RLV8-S



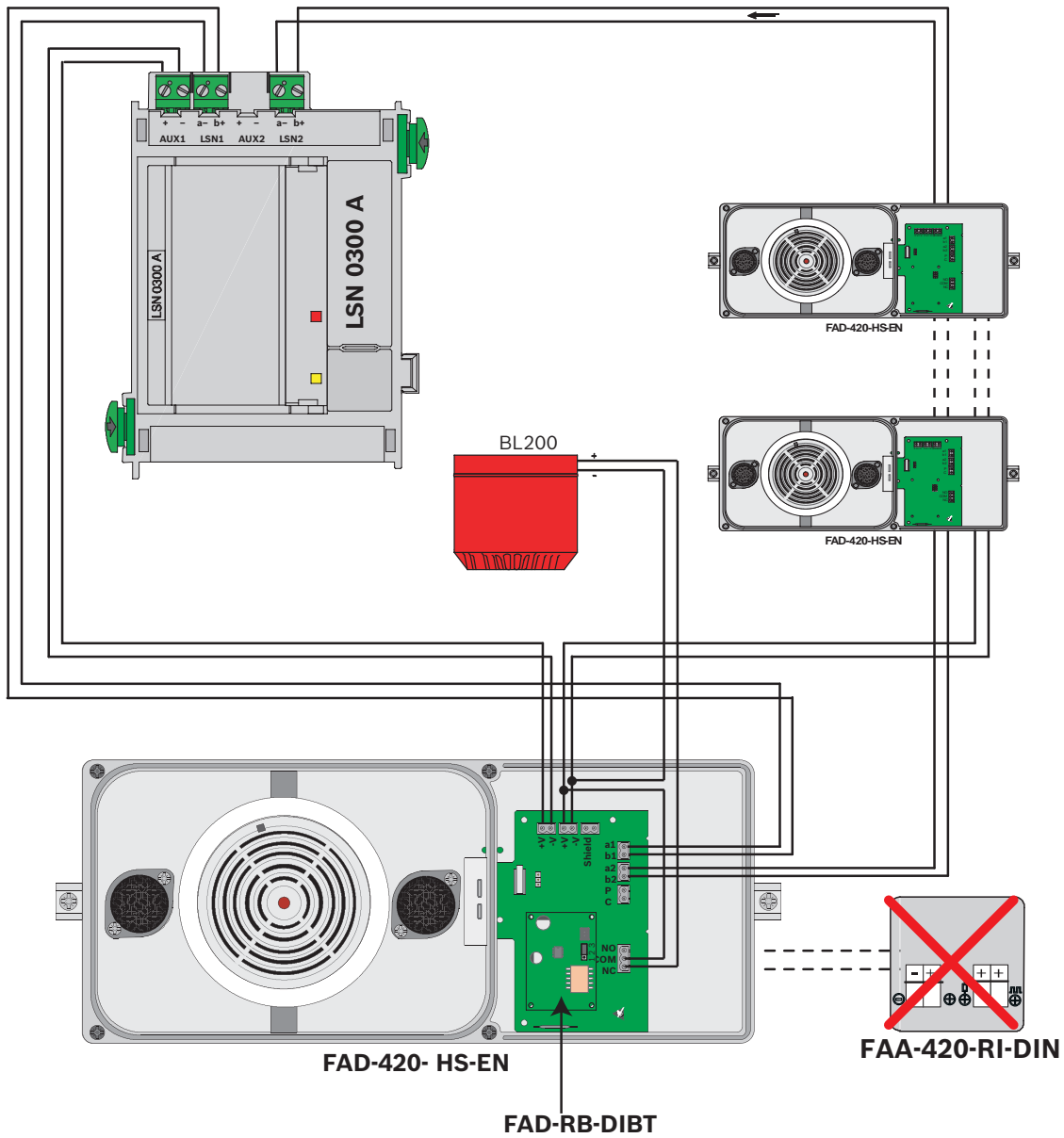


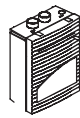
FAD-0420



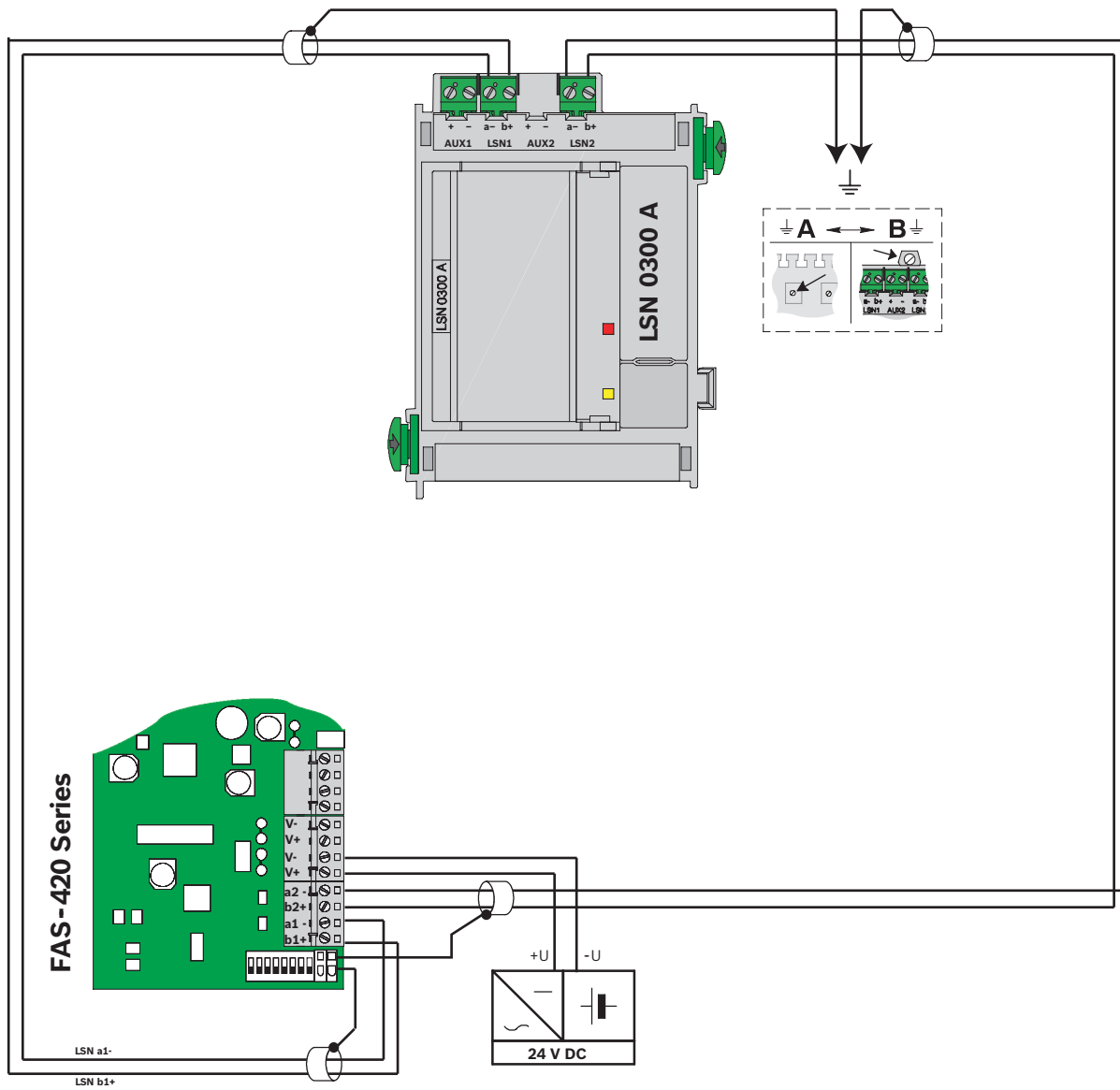


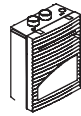
FAD-420-HS-EN



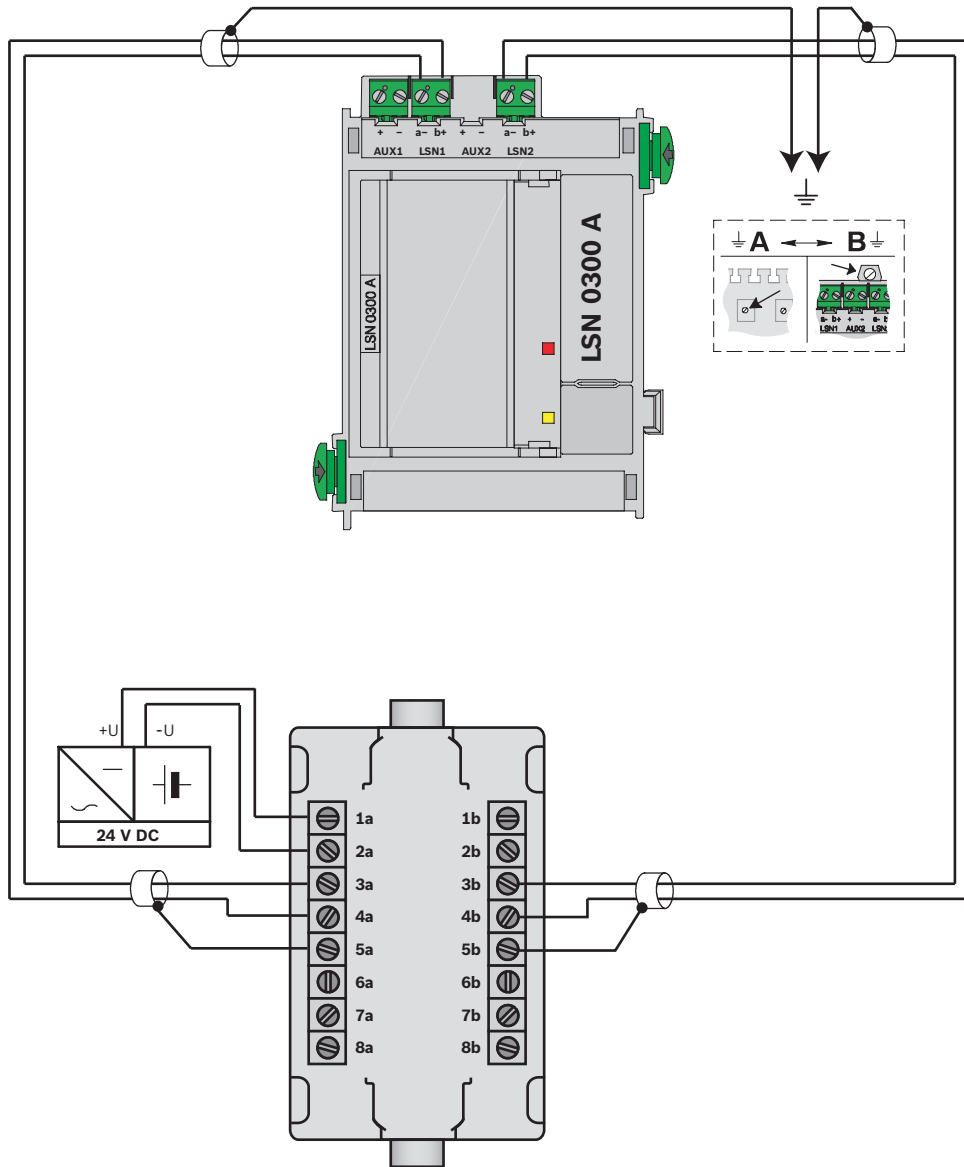


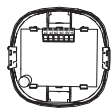
FAS-420 Series



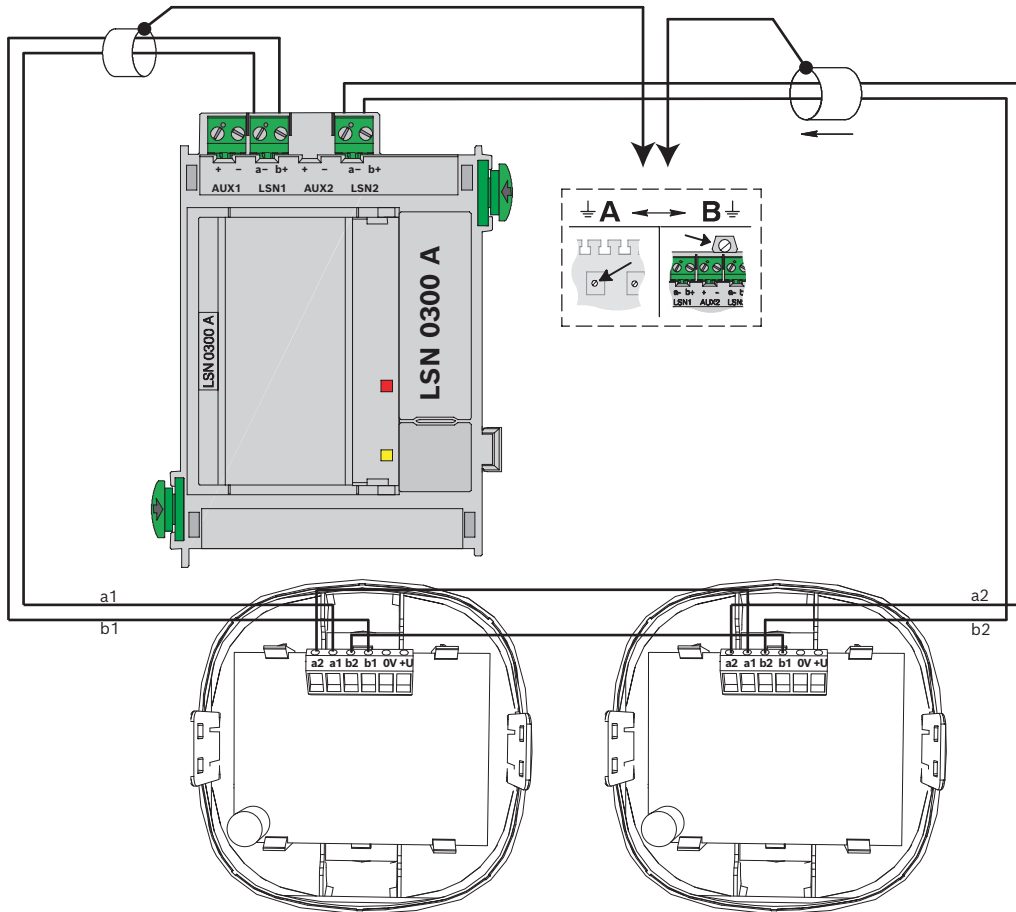
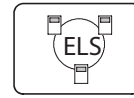


FAS-420-TM Series





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

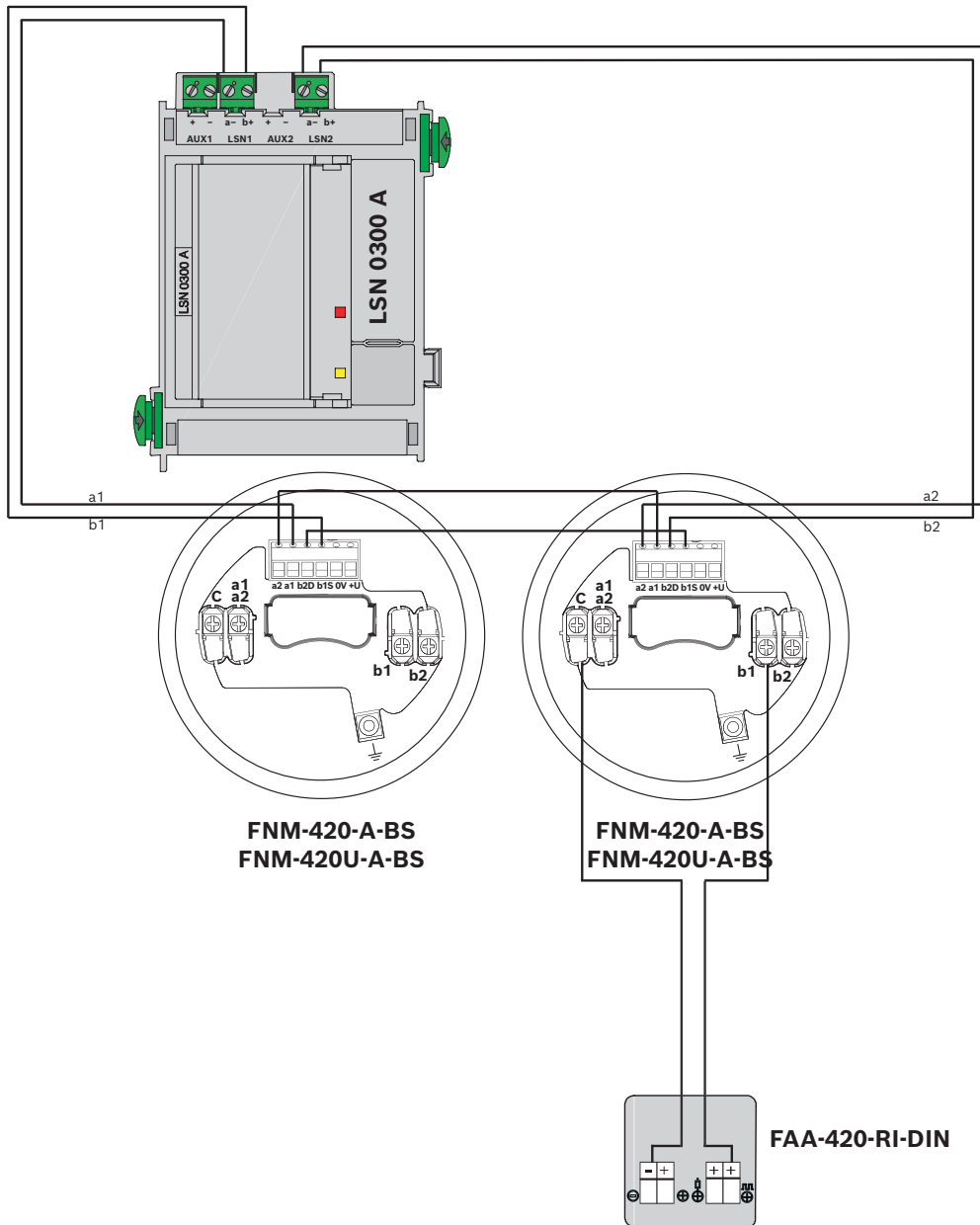
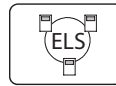


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

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



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



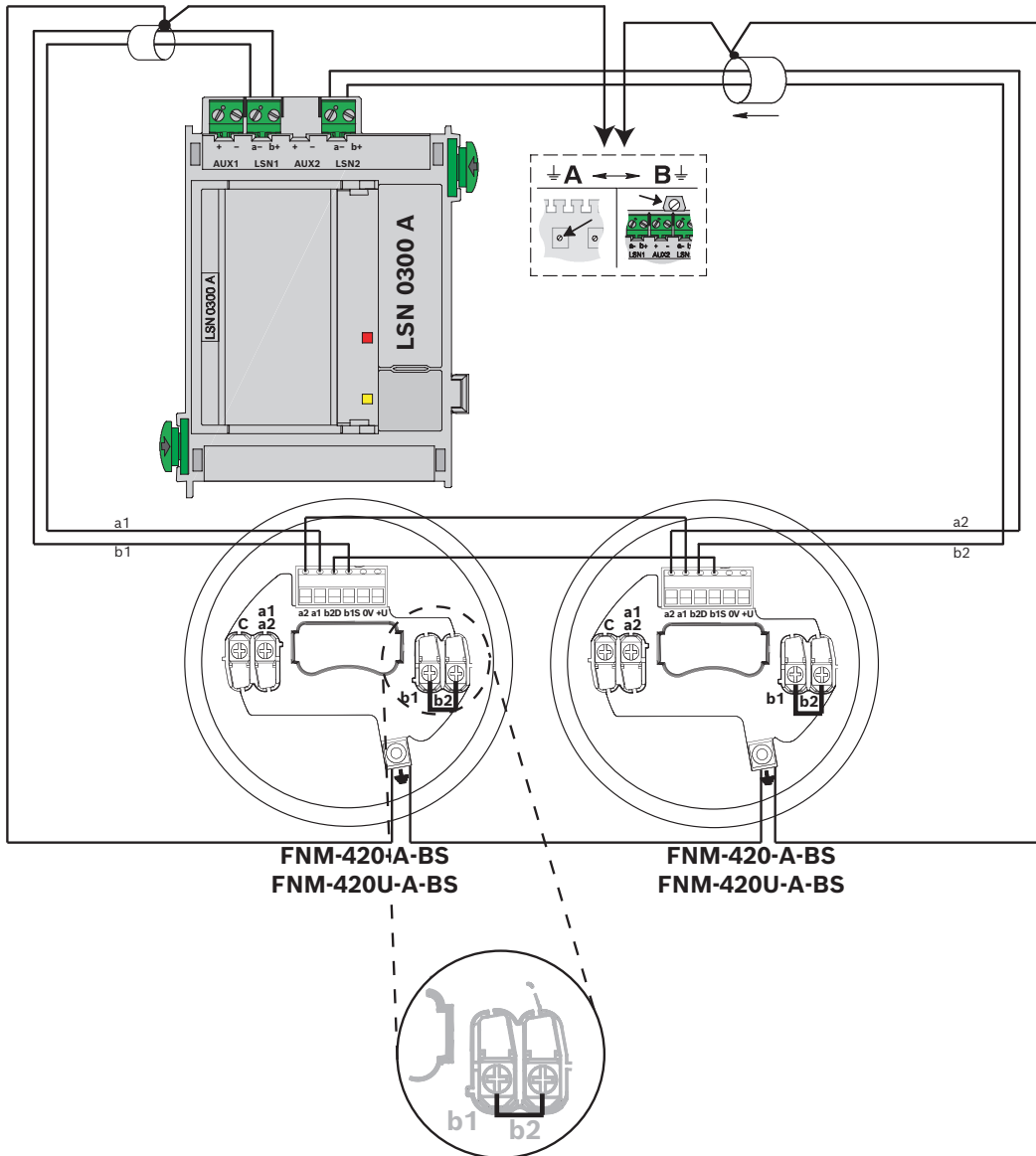
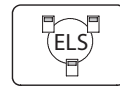
FNM-420-A-BS
FNM-420U-A-BS

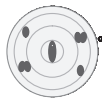
FNM-420-A-BS
FNM-420U-A-BS

FAA-420-RI-DIN

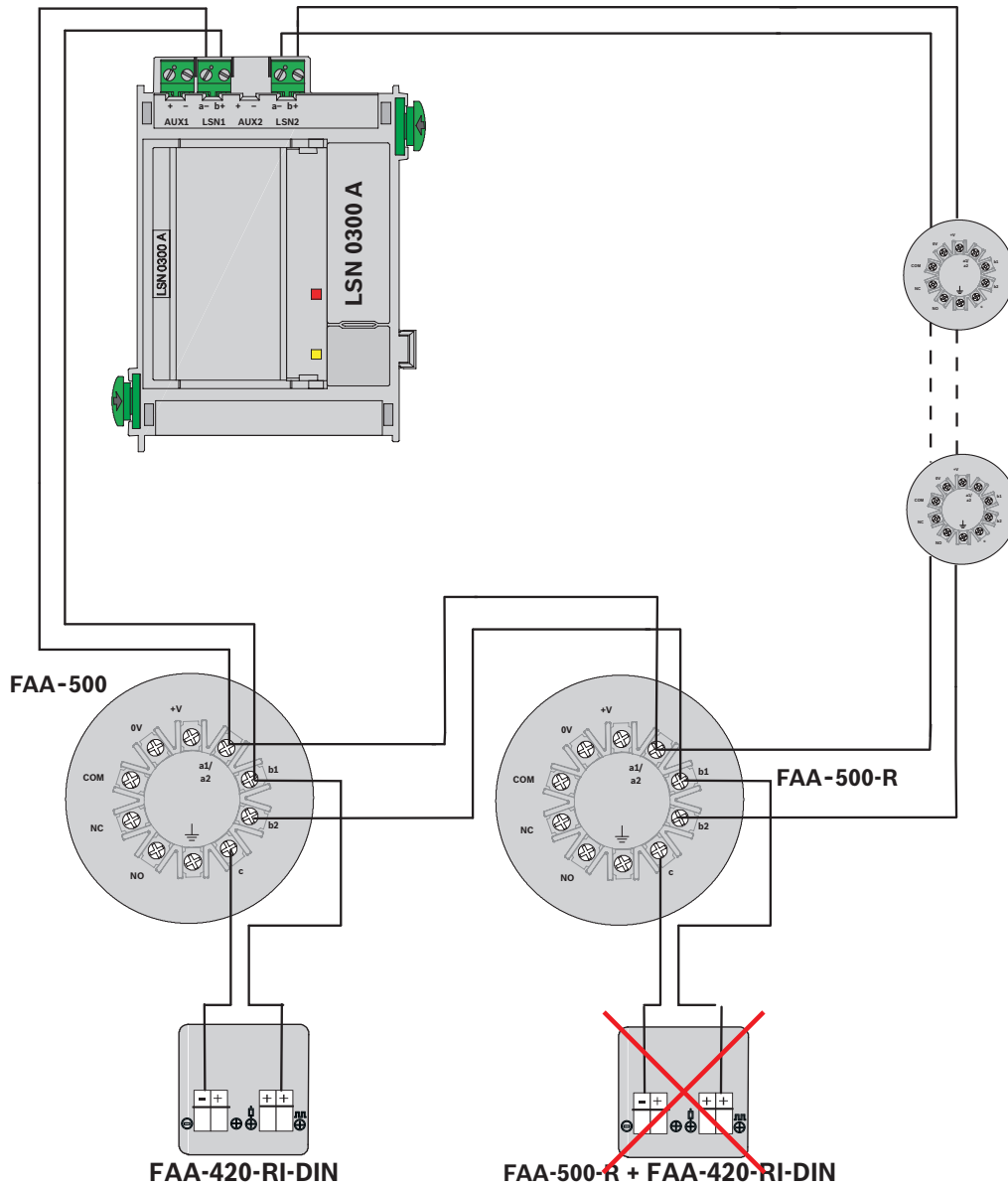
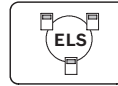


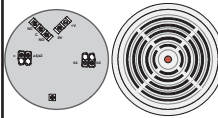
FNM-420-A-BS
FNM-420U-A-BS



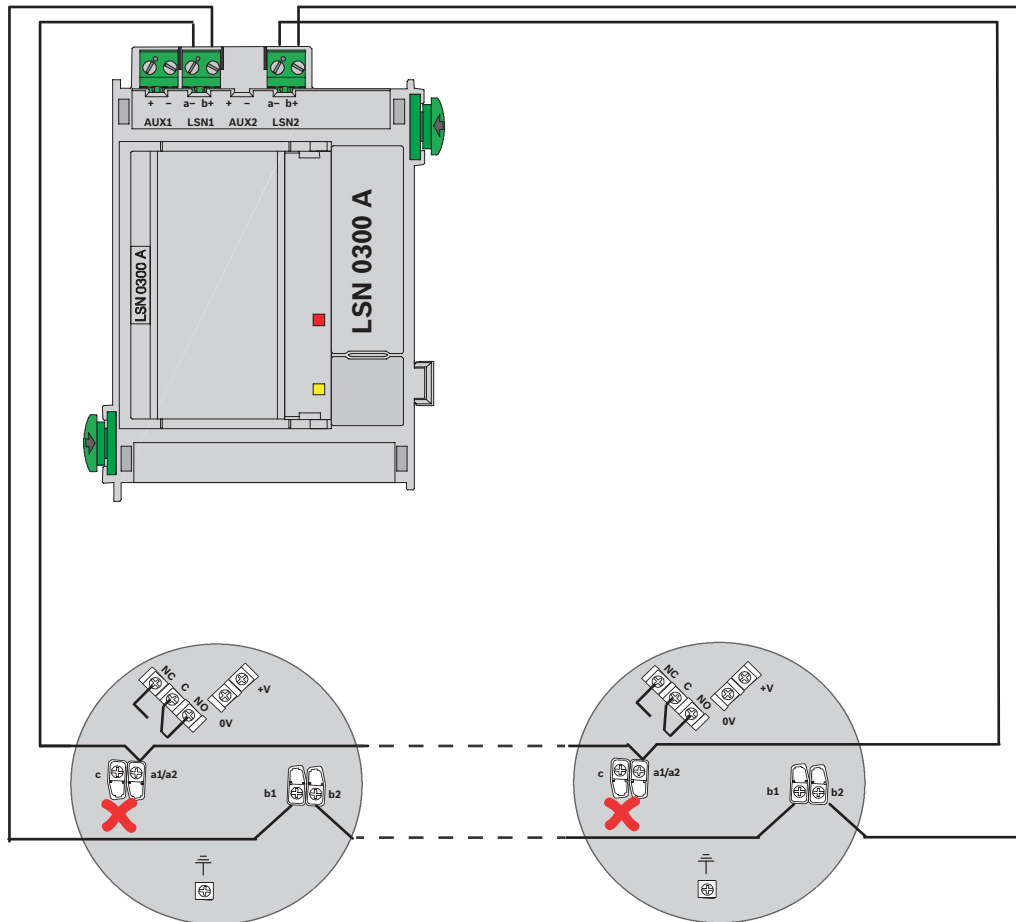
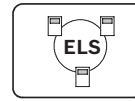


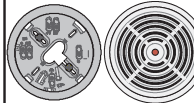
FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P



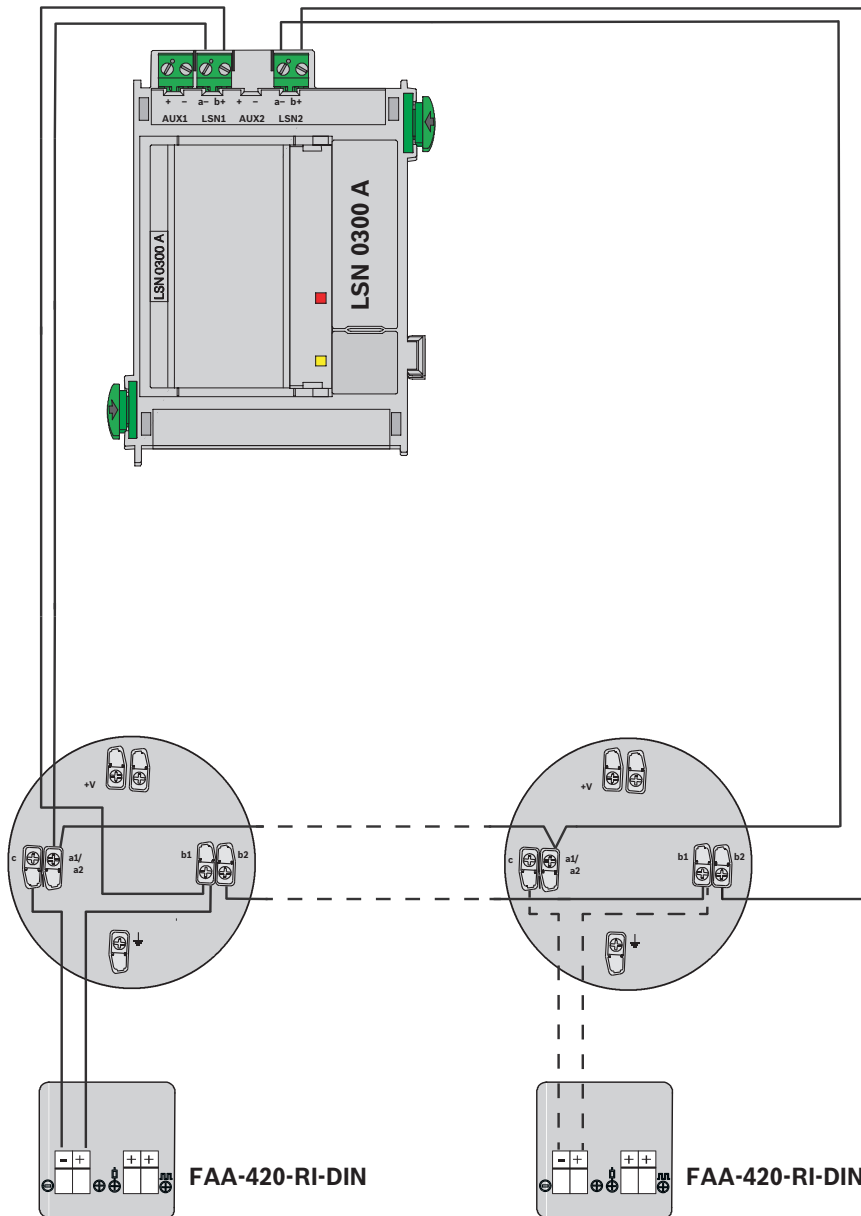
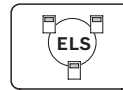


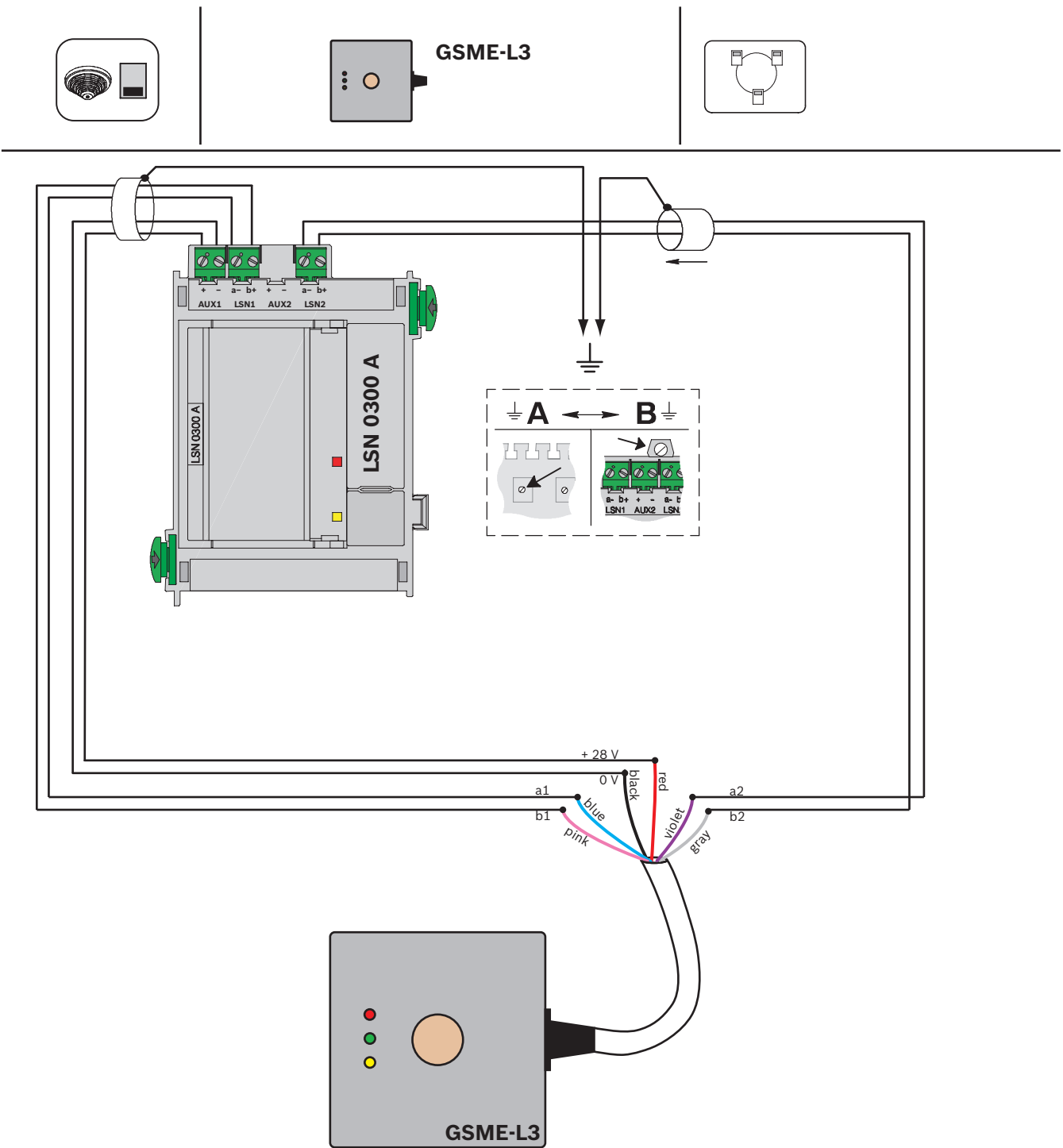
FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R

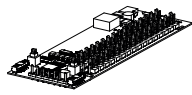




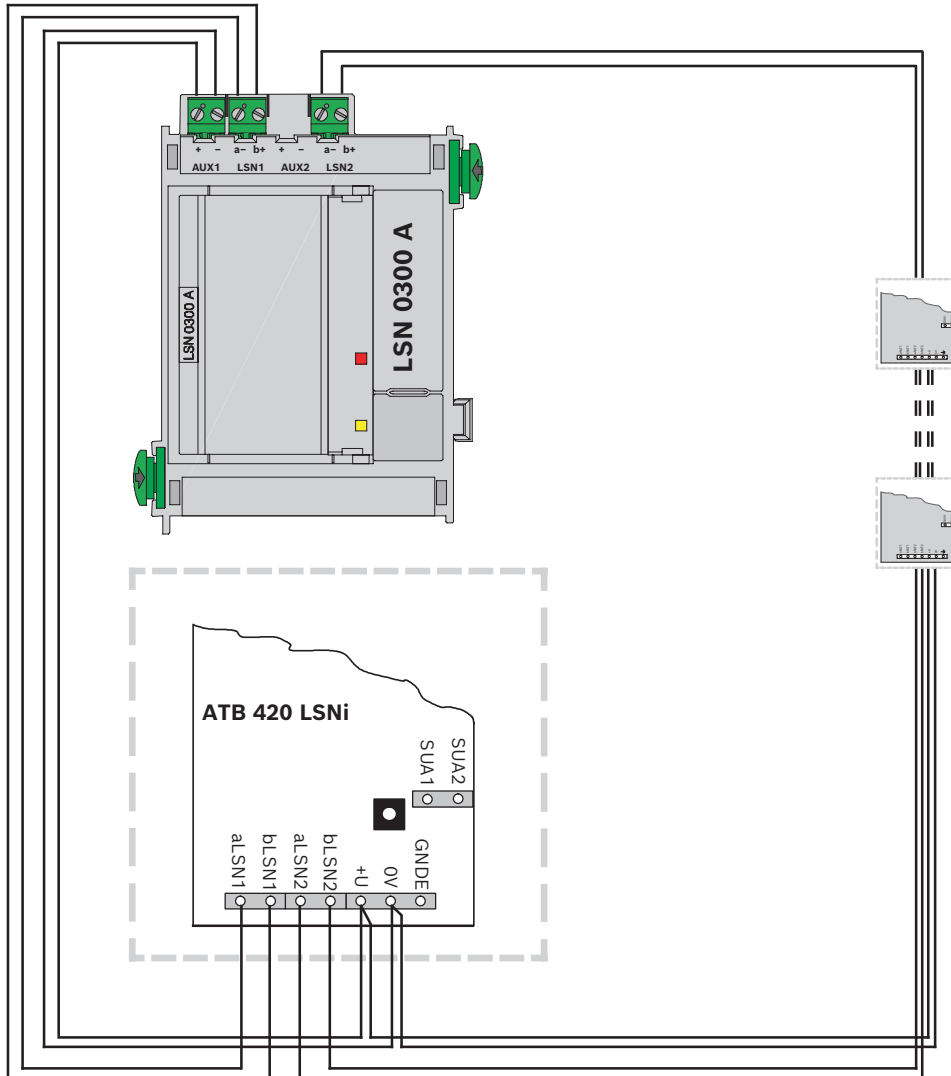
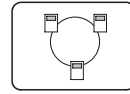
MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R





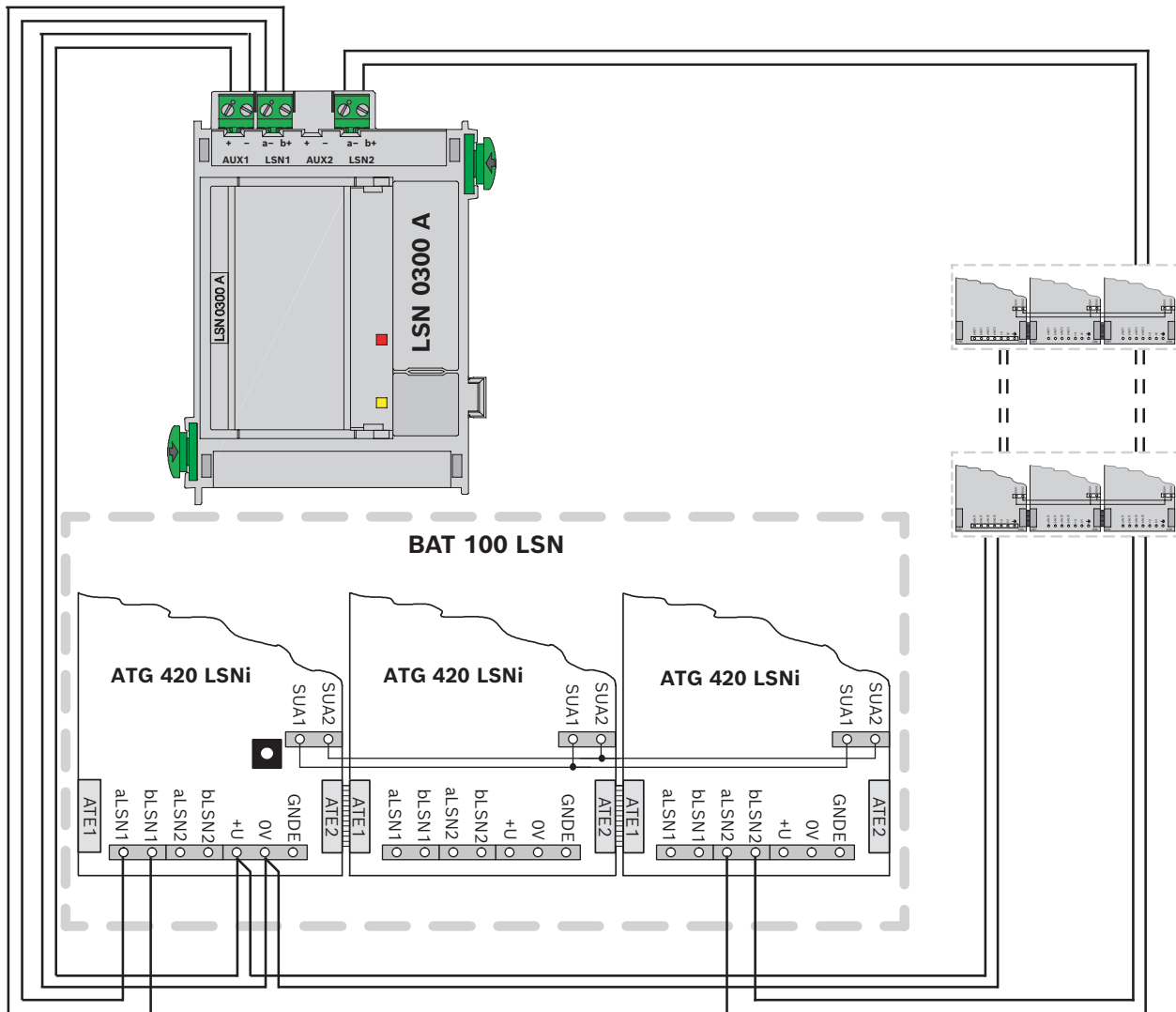
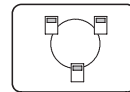


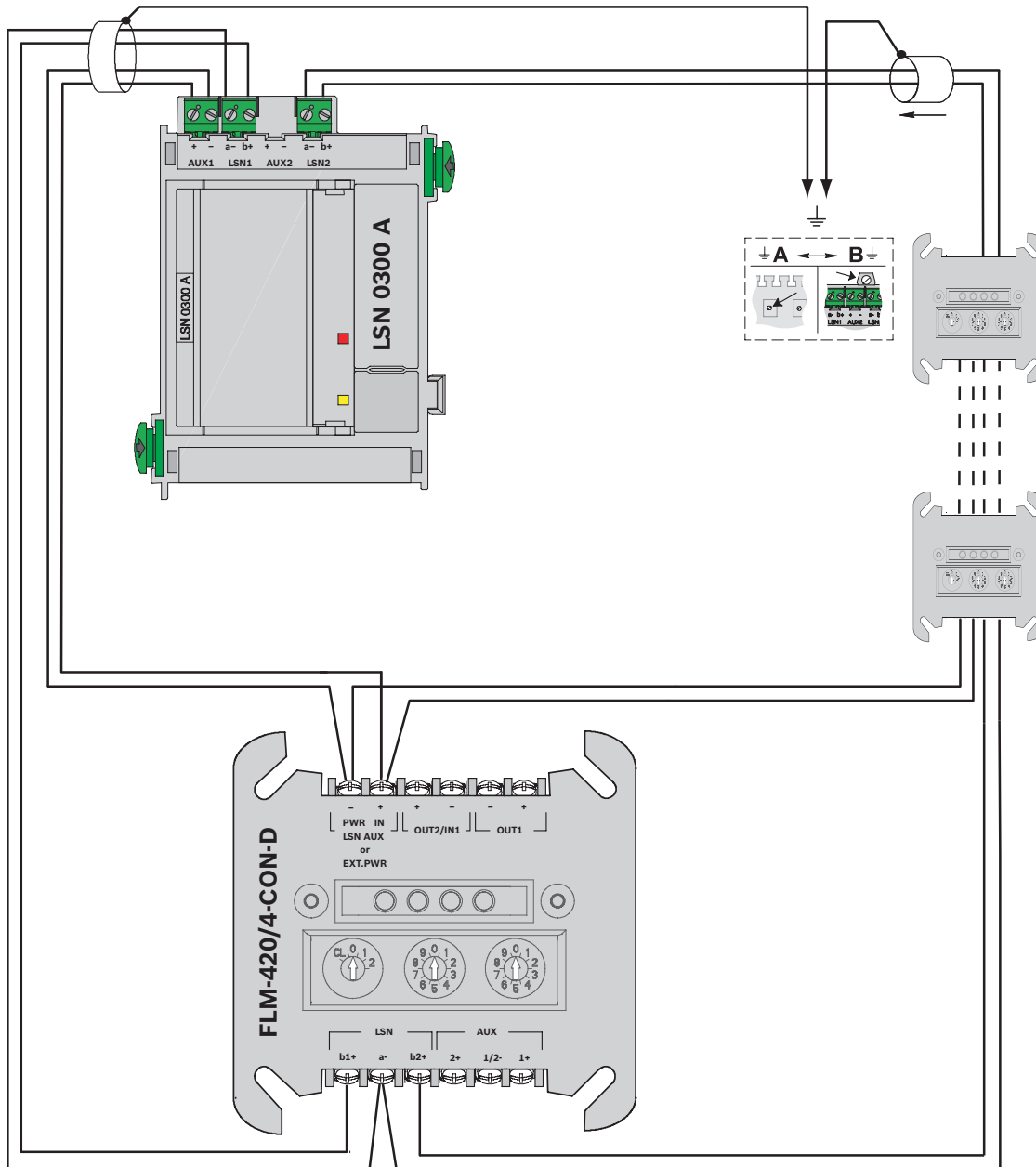
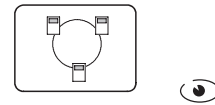
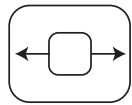
ATB 420 LSNi





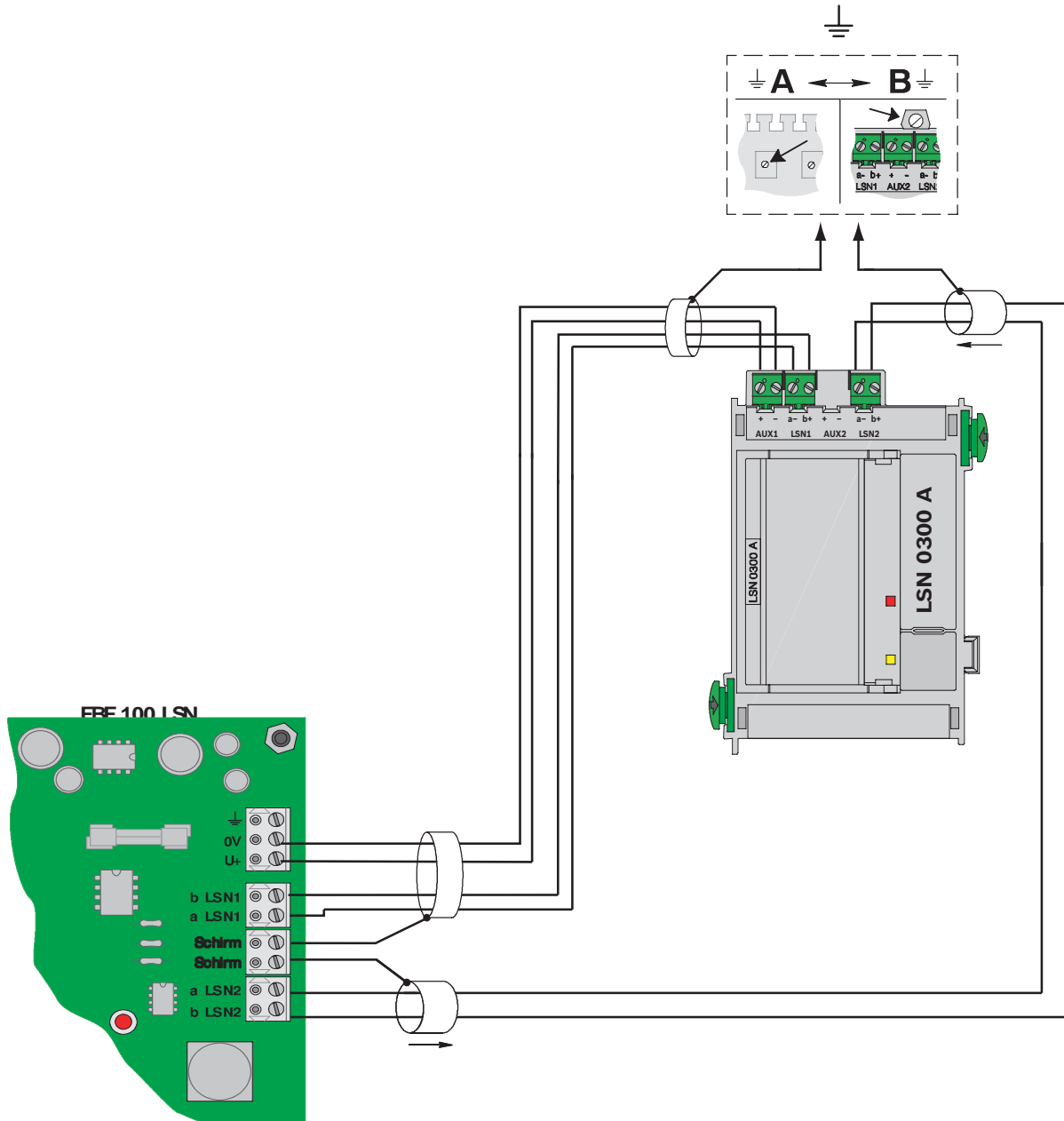
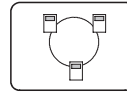
BAT 100 LSN
ATG 420 LSNi

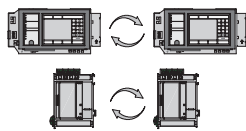




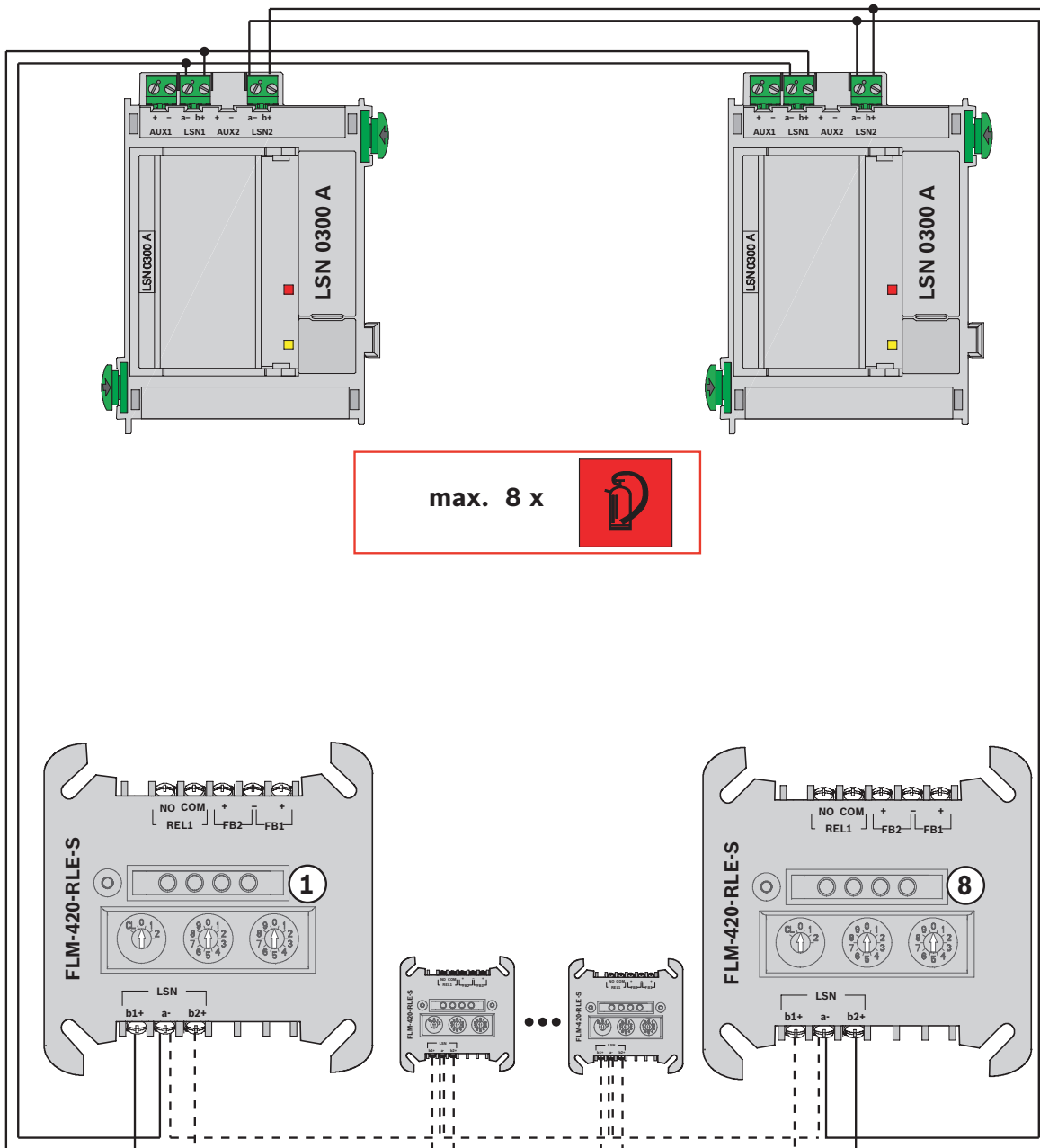
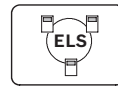


FBF 100 LSN



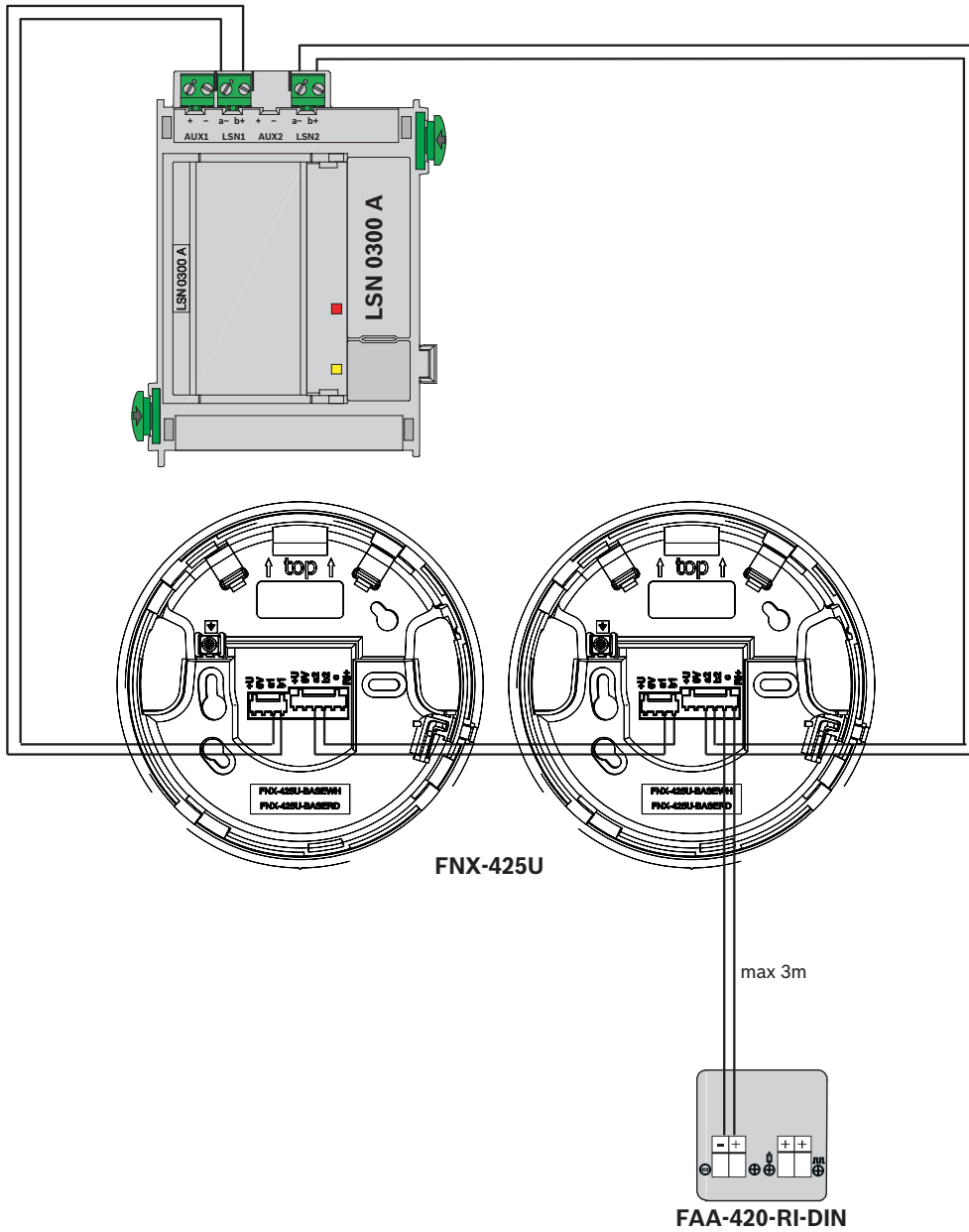
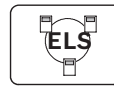


FLM-420-RLE-S





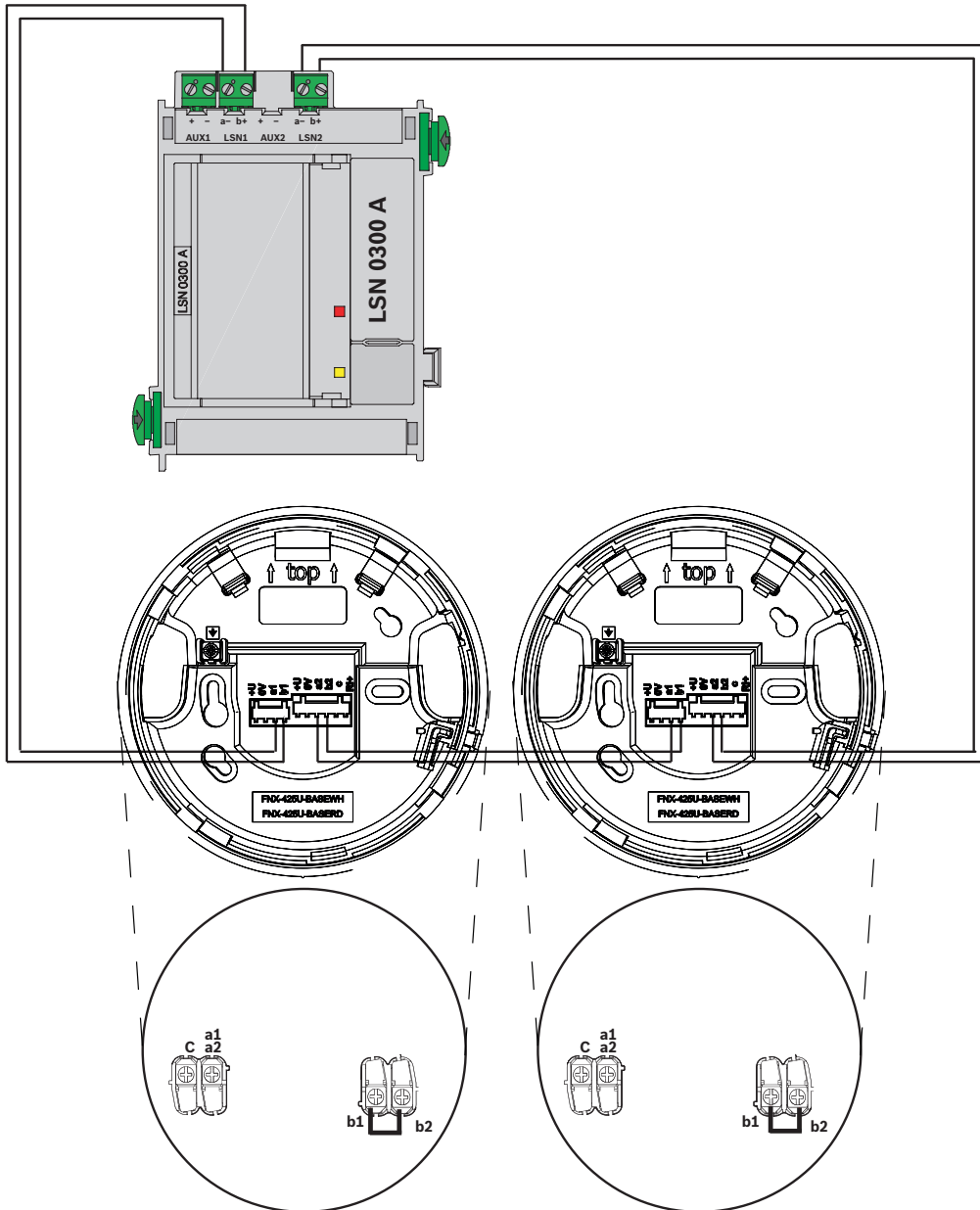
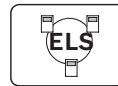
FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD

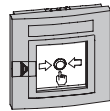
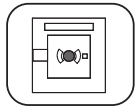




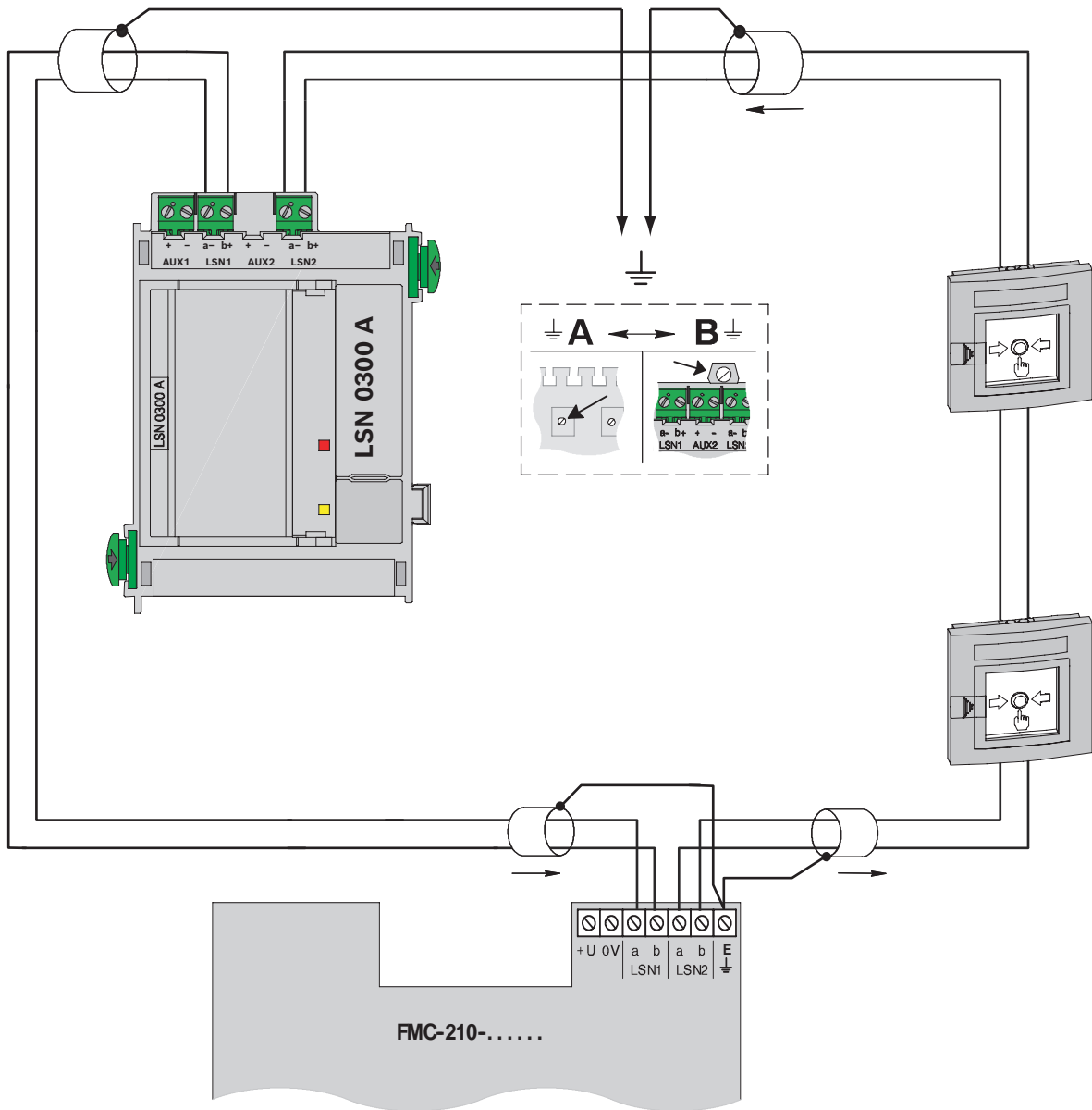
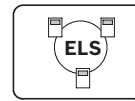
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

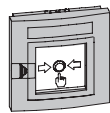
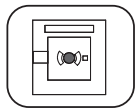
+ FNX-425U-COVWH
 FNX-425U-COVRD



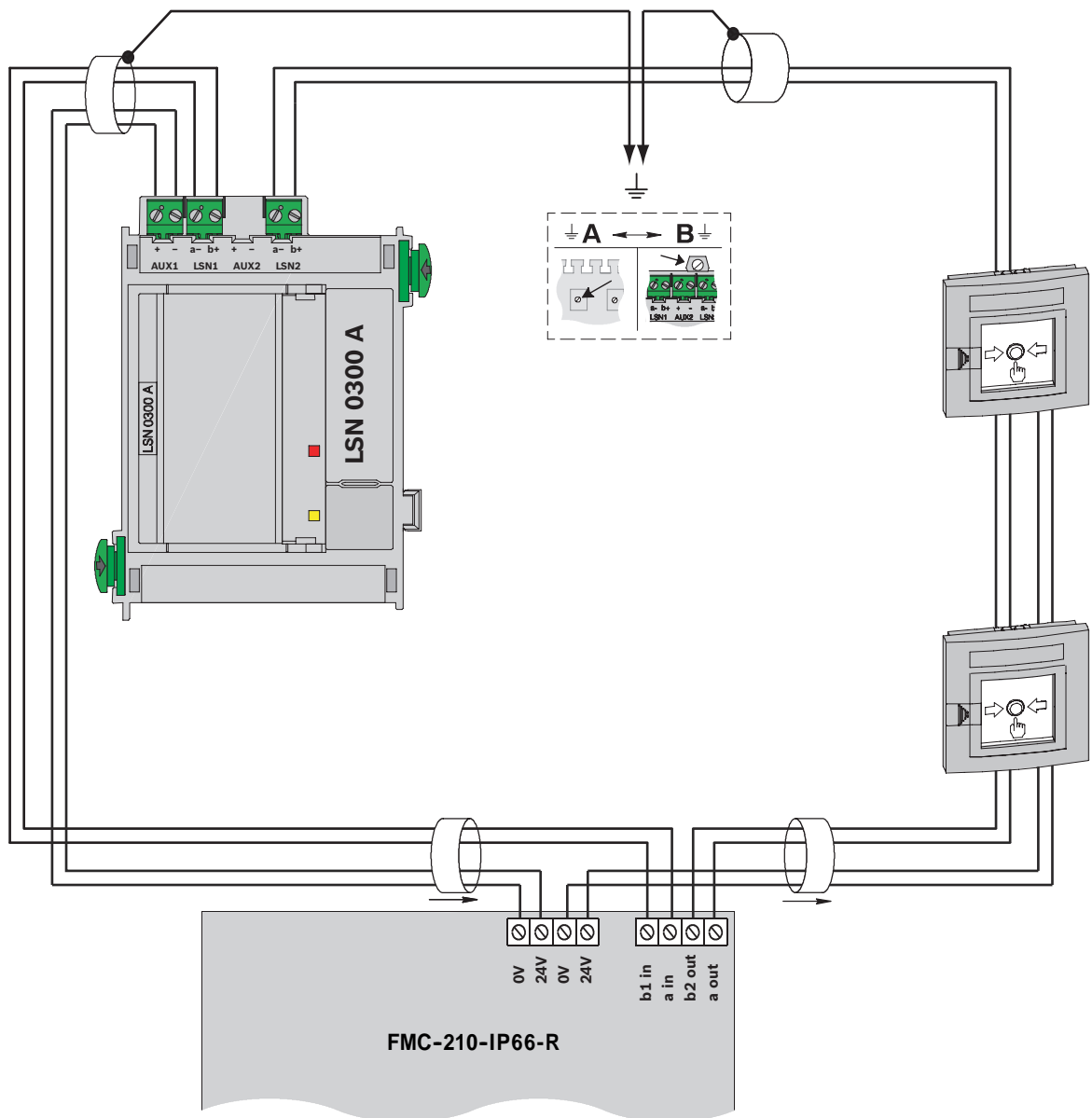
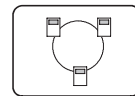


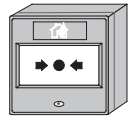
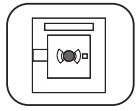
FMC-210...



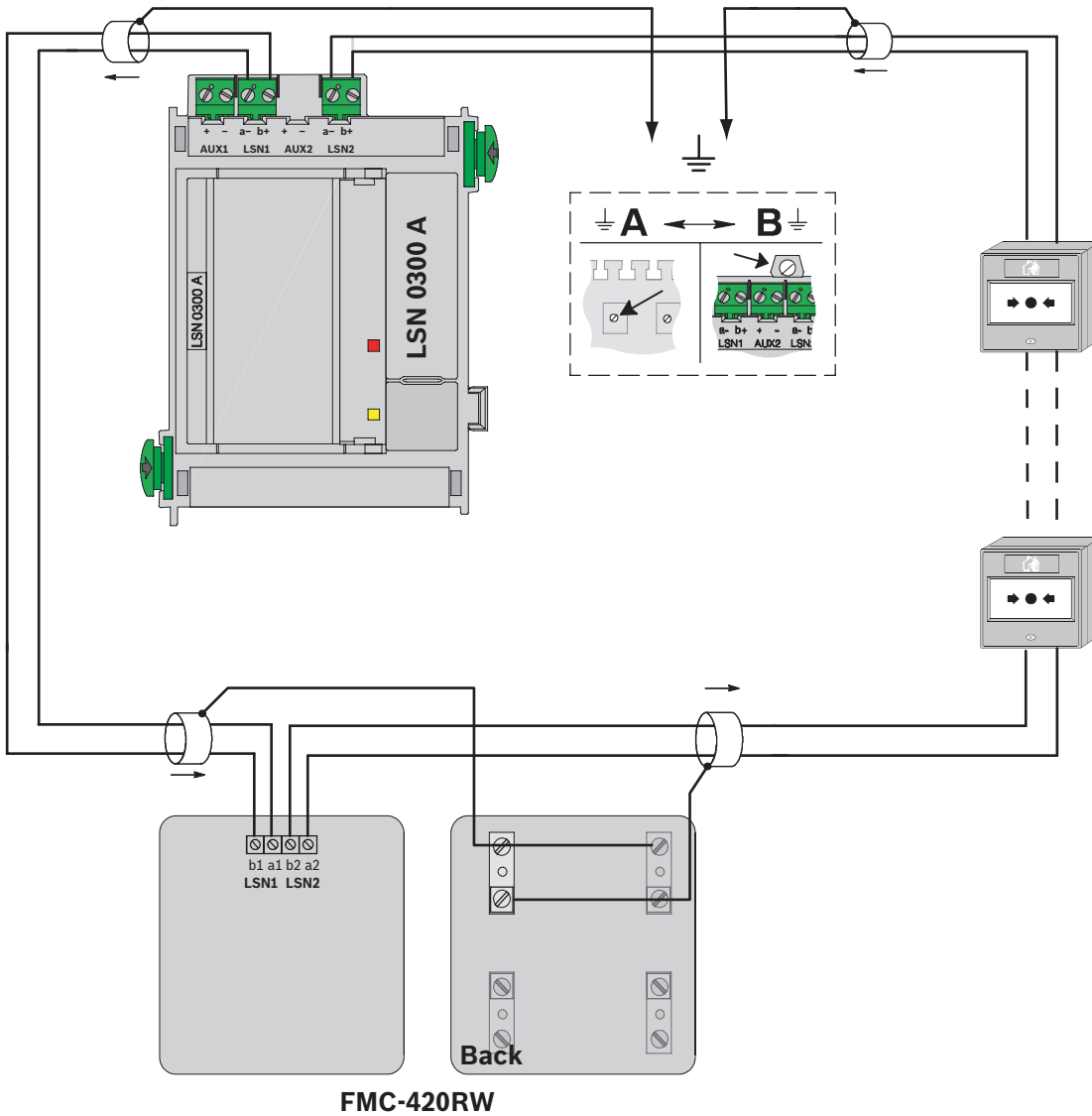
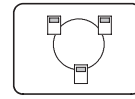


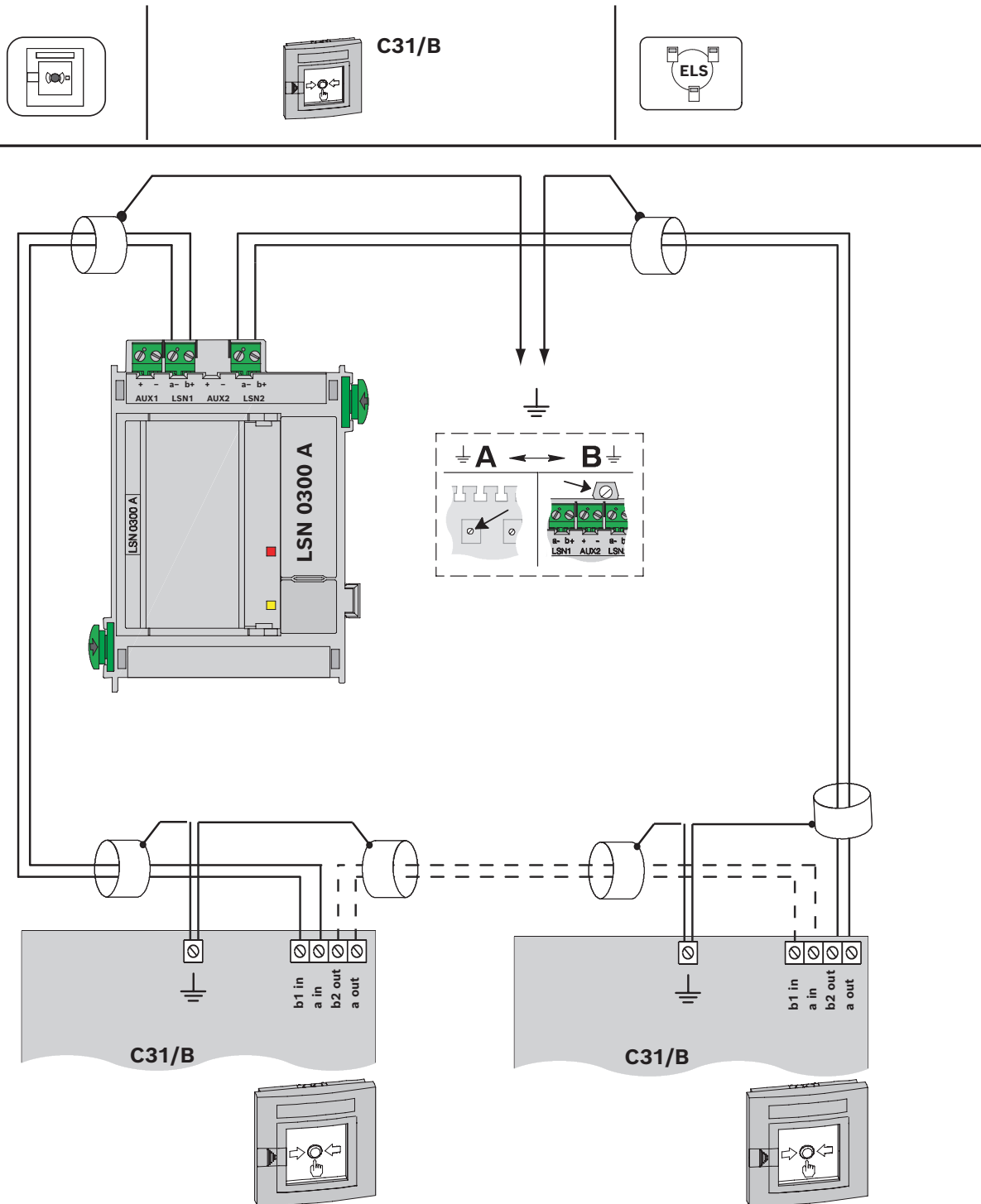
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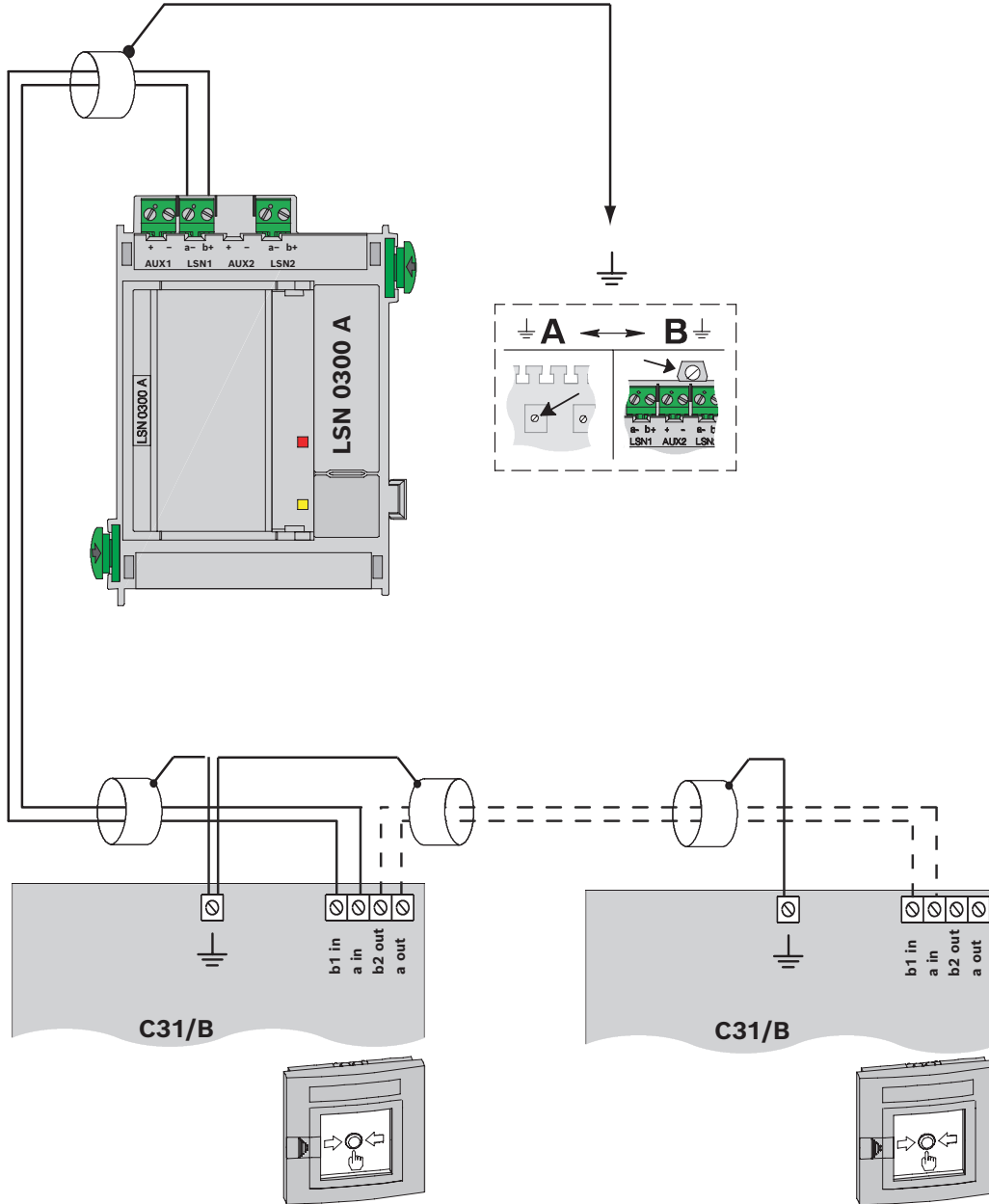
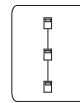
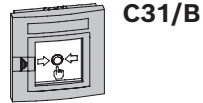
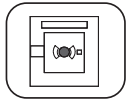


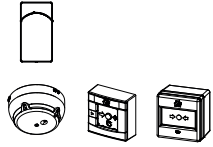


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD



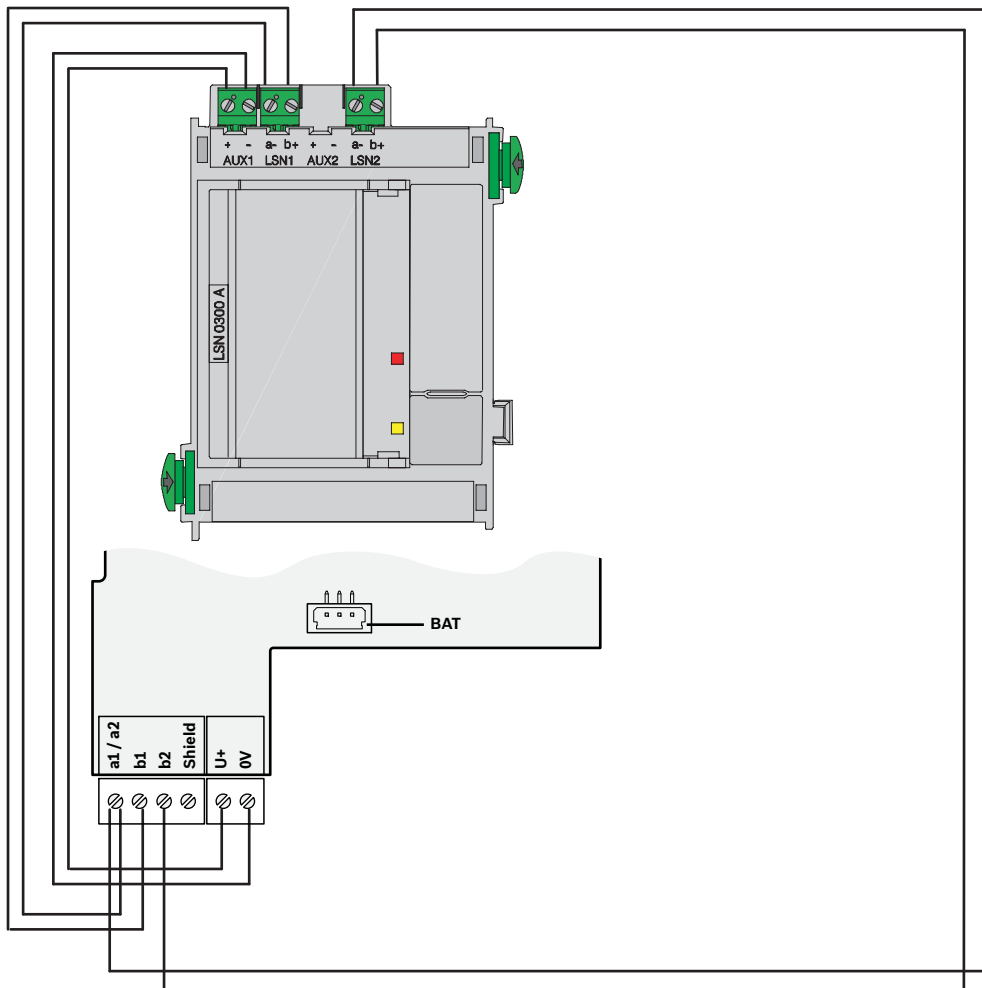
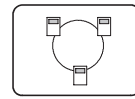






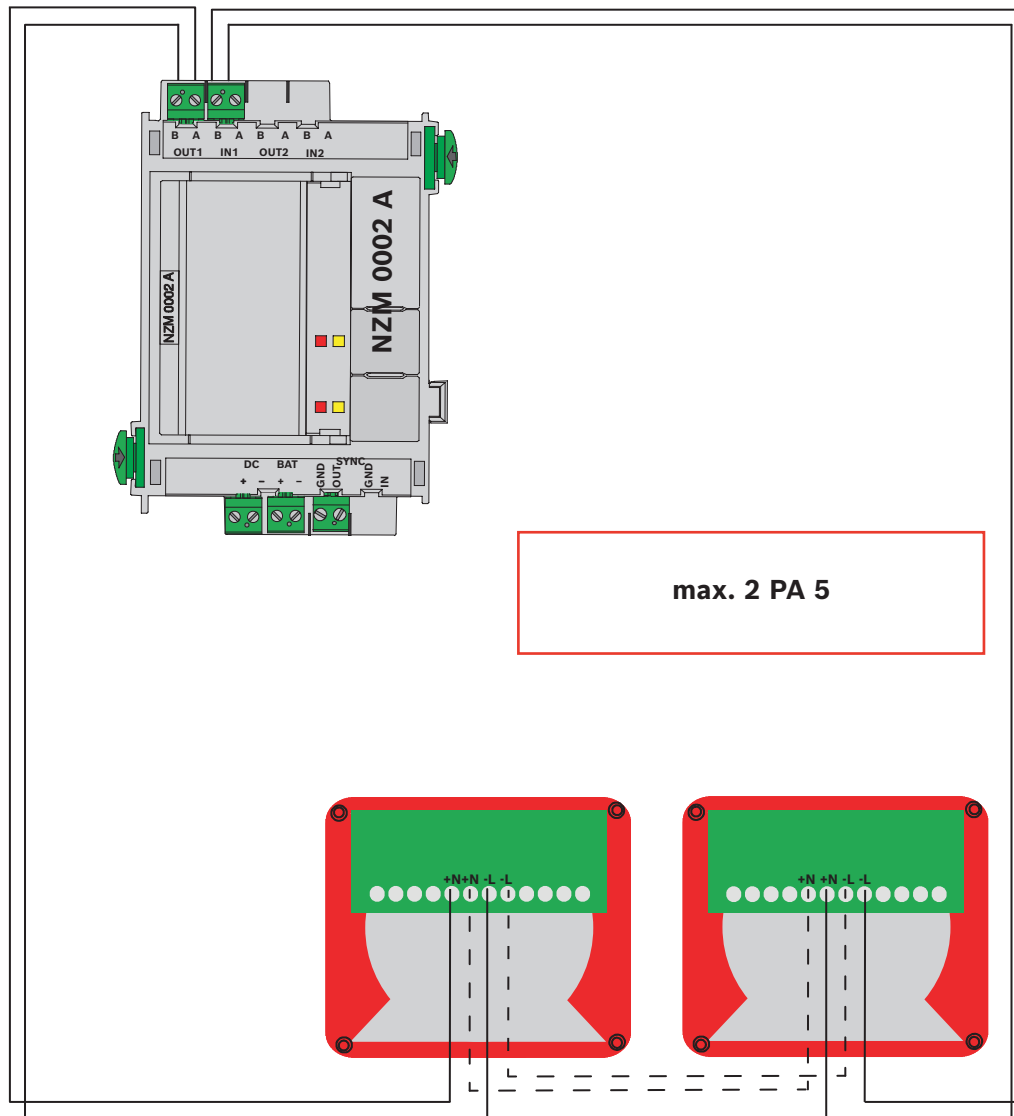
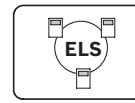
FWI-270

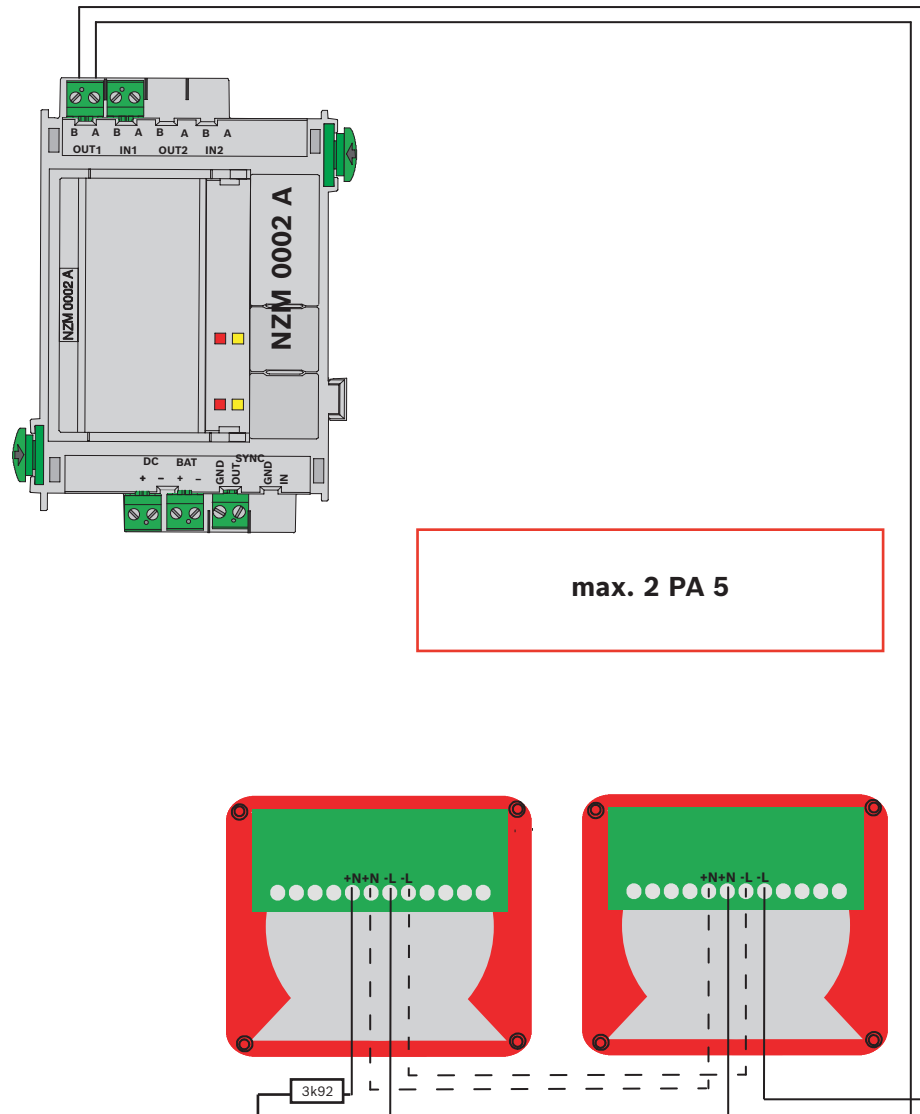
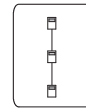
FDOOT271-O
FDM275-O
FDM273-O

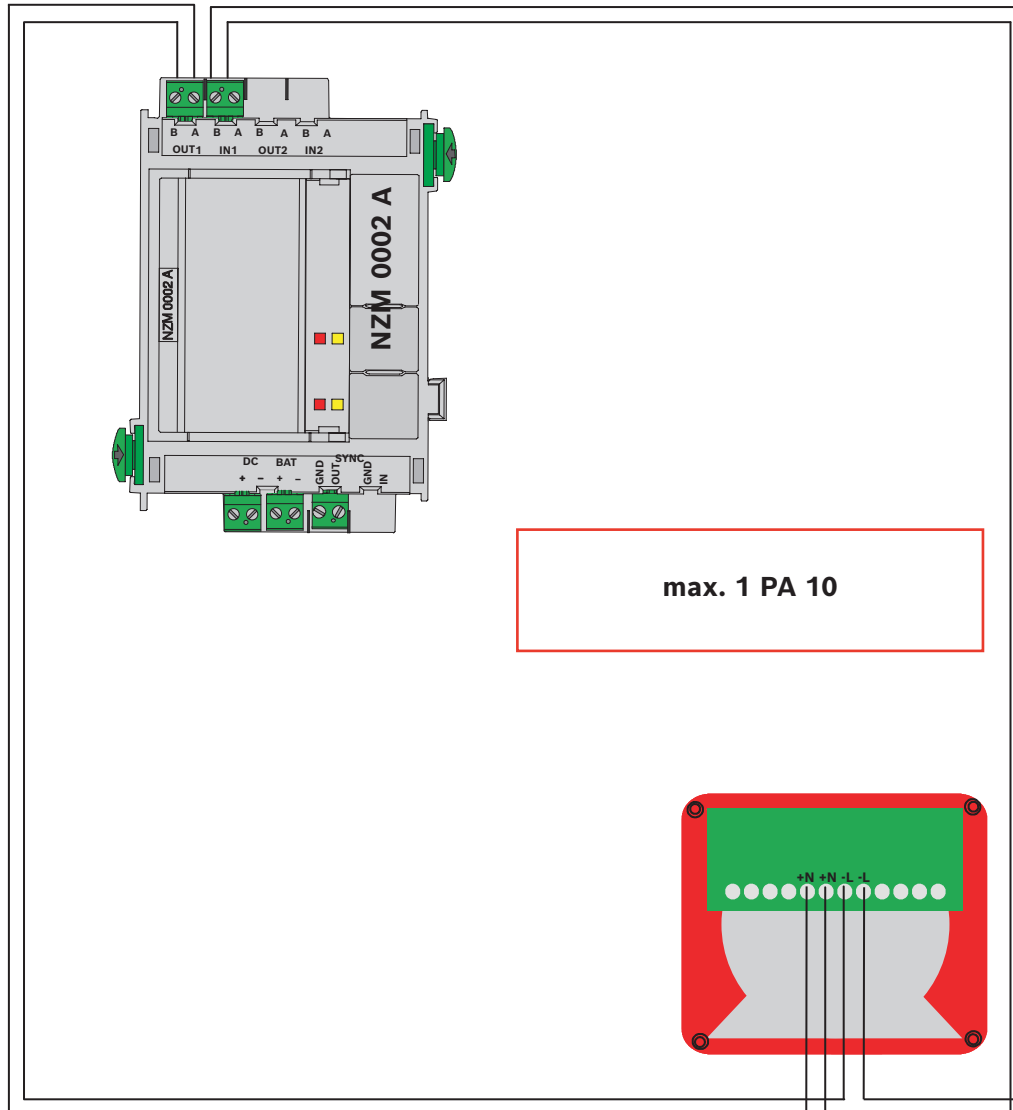
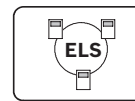


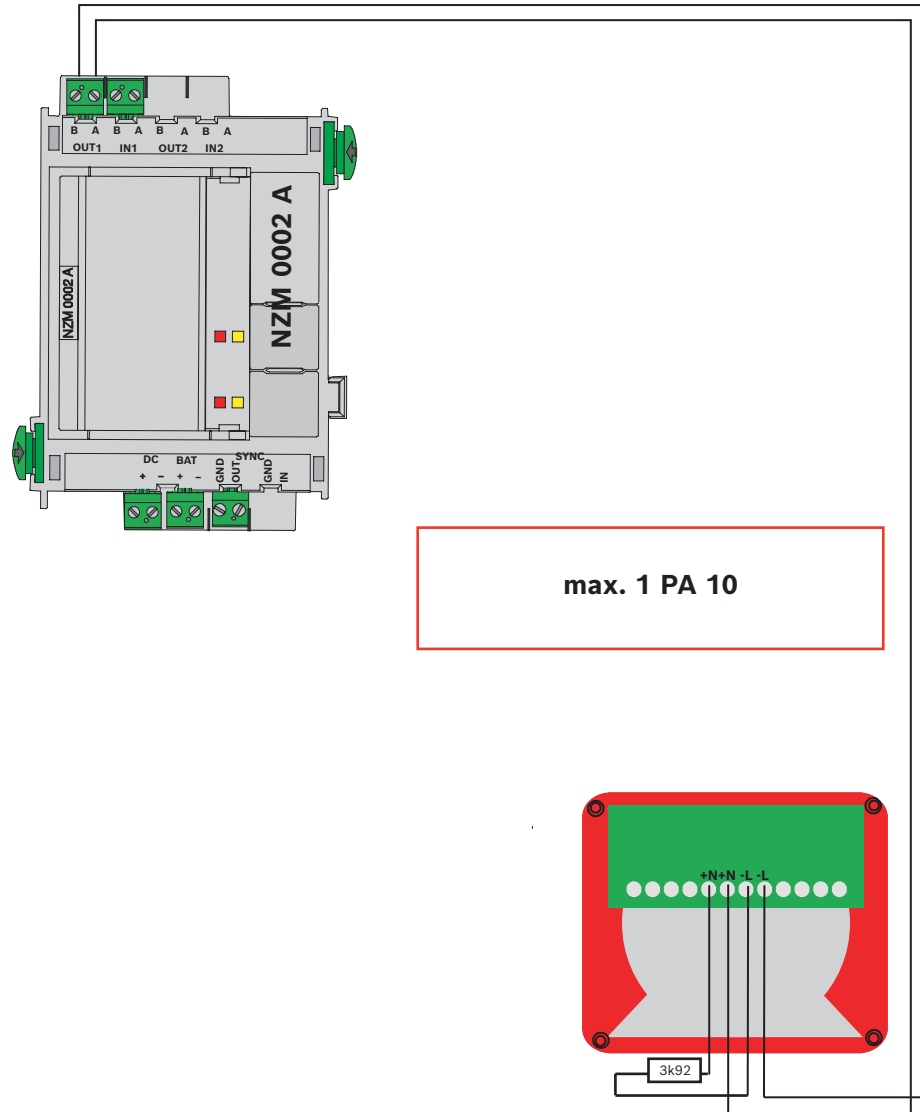
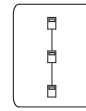
2.4.5

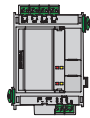
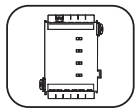
NZM 0002 A



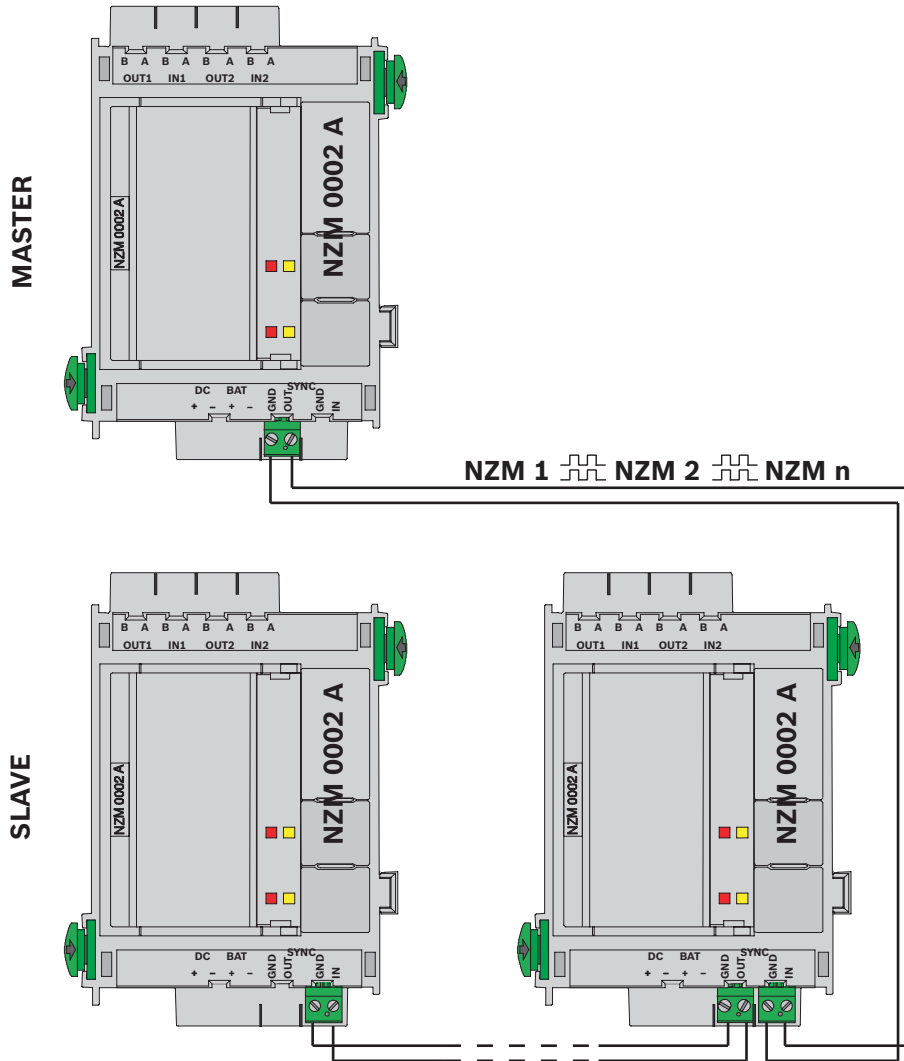


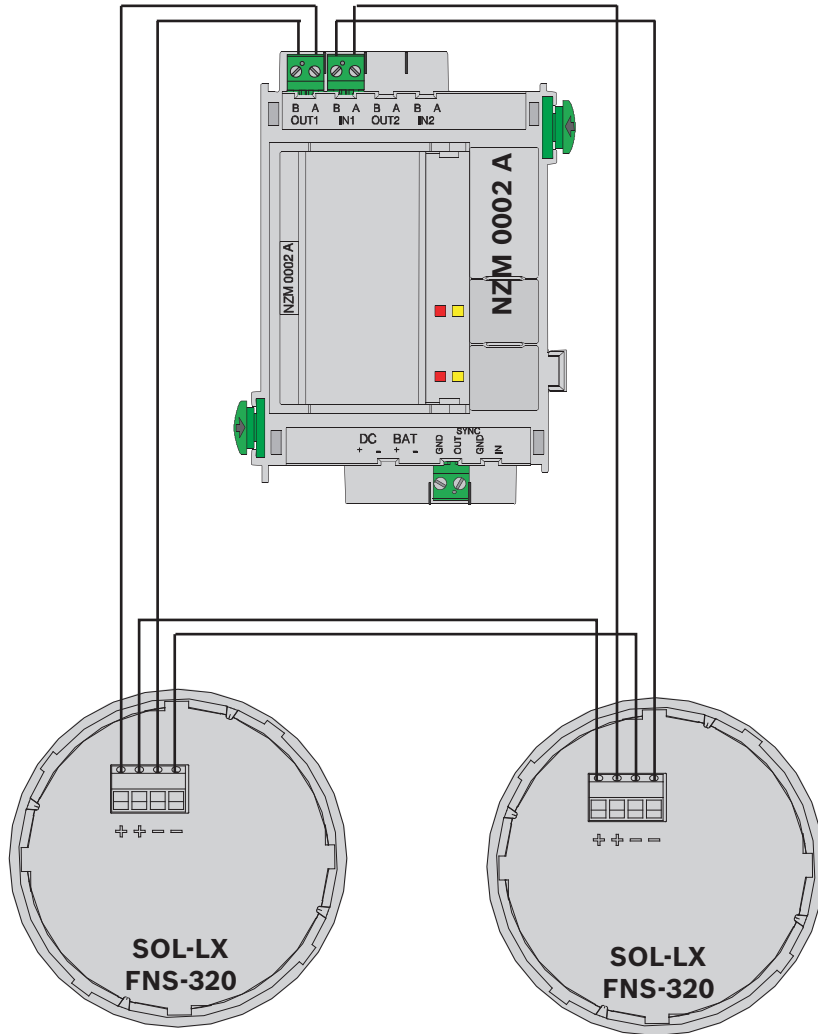
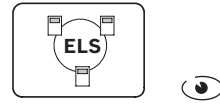


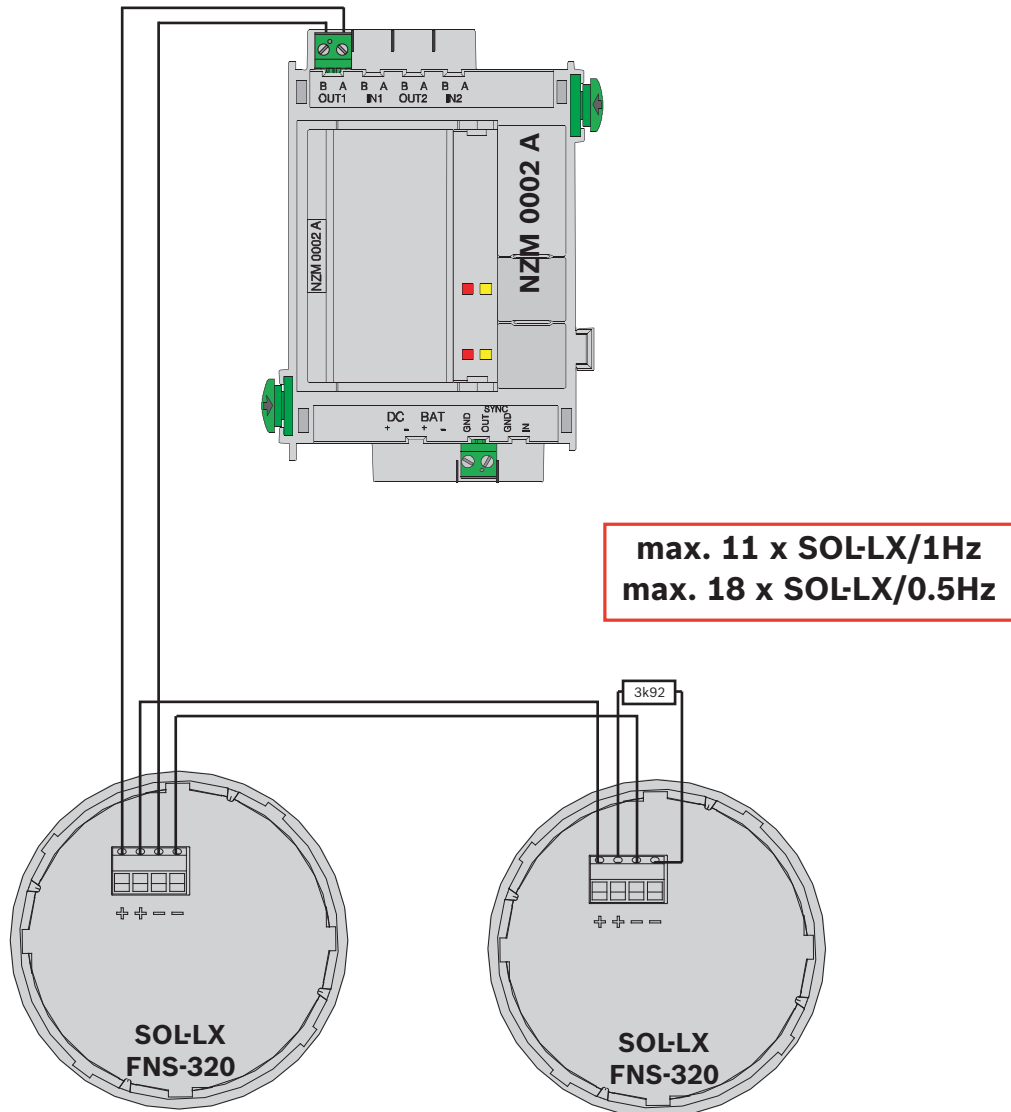
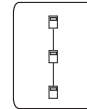


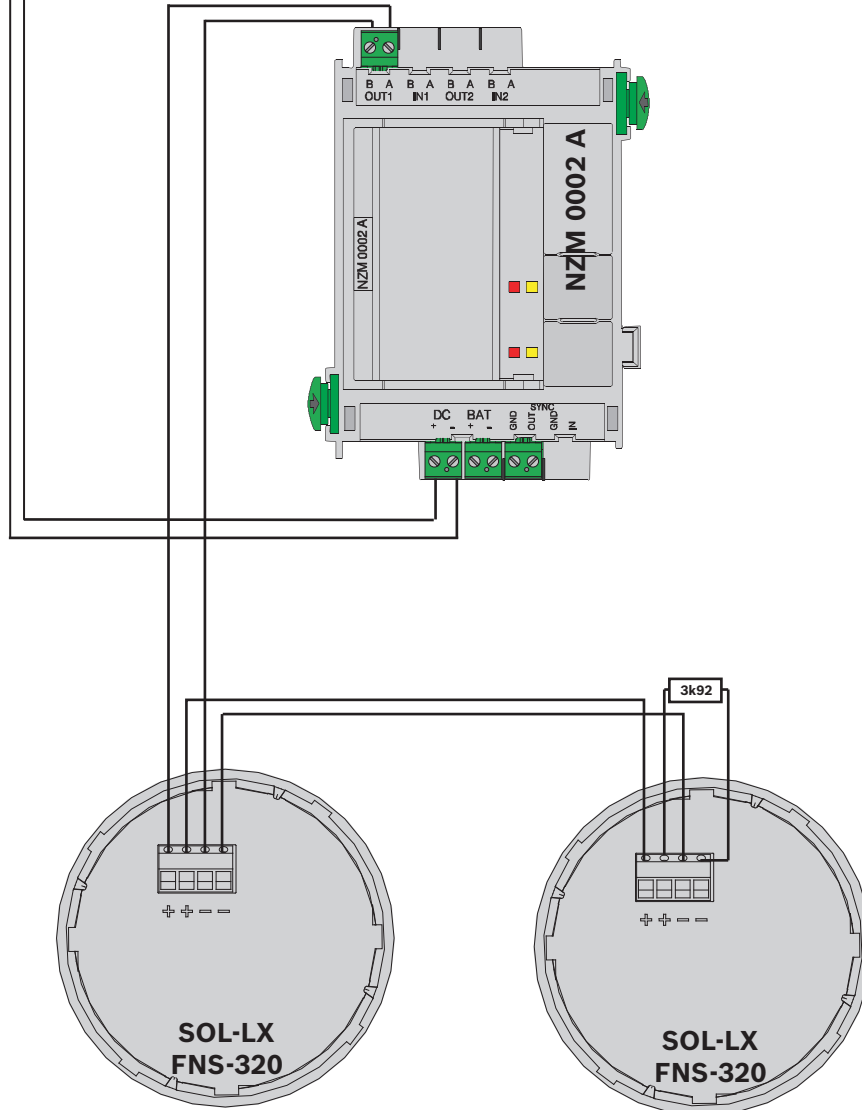
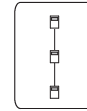


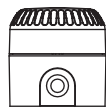
NZM 0002 A



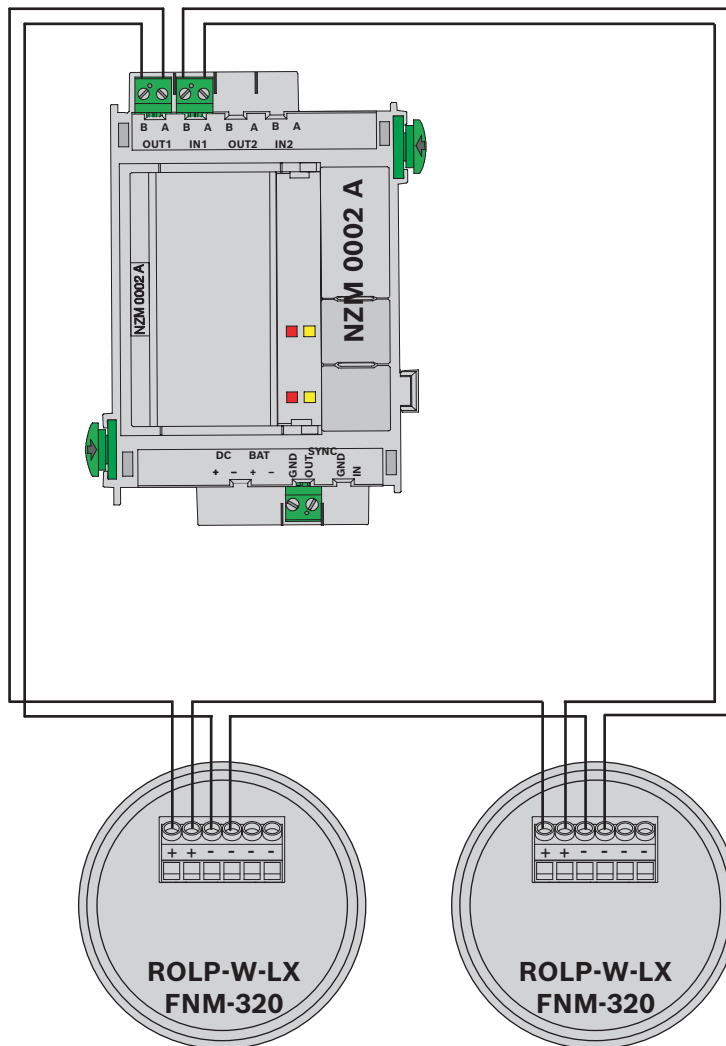
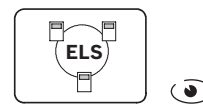


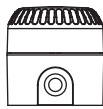




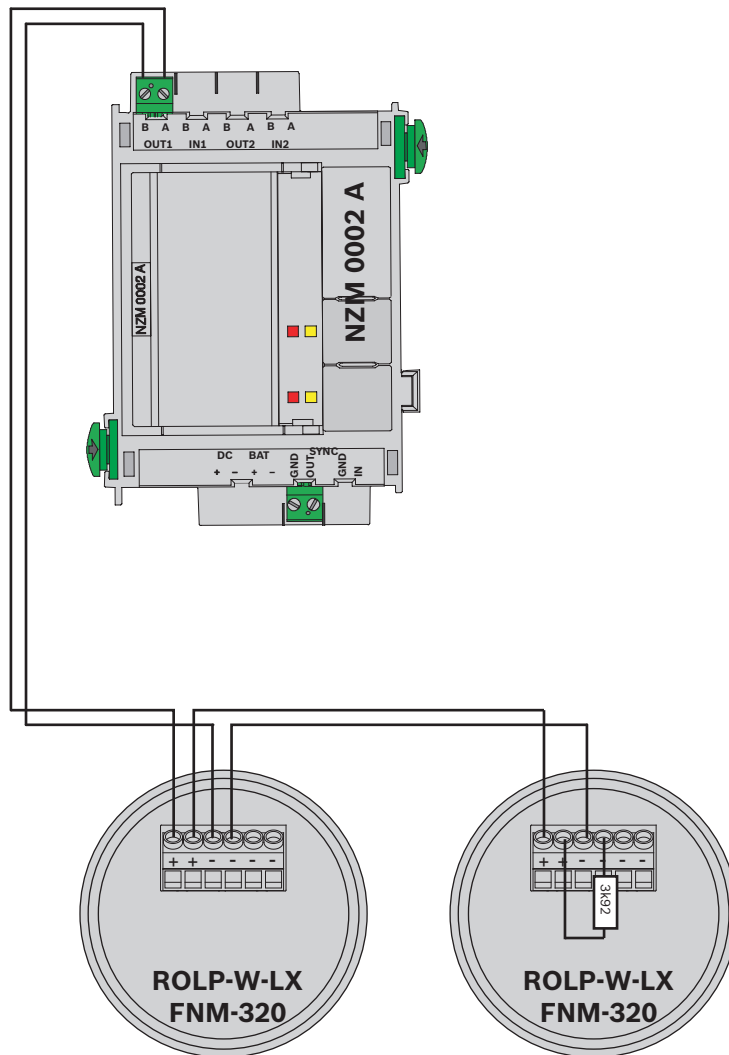
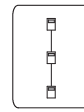


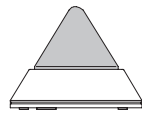
**ROLP-W-LX
FNM-320**



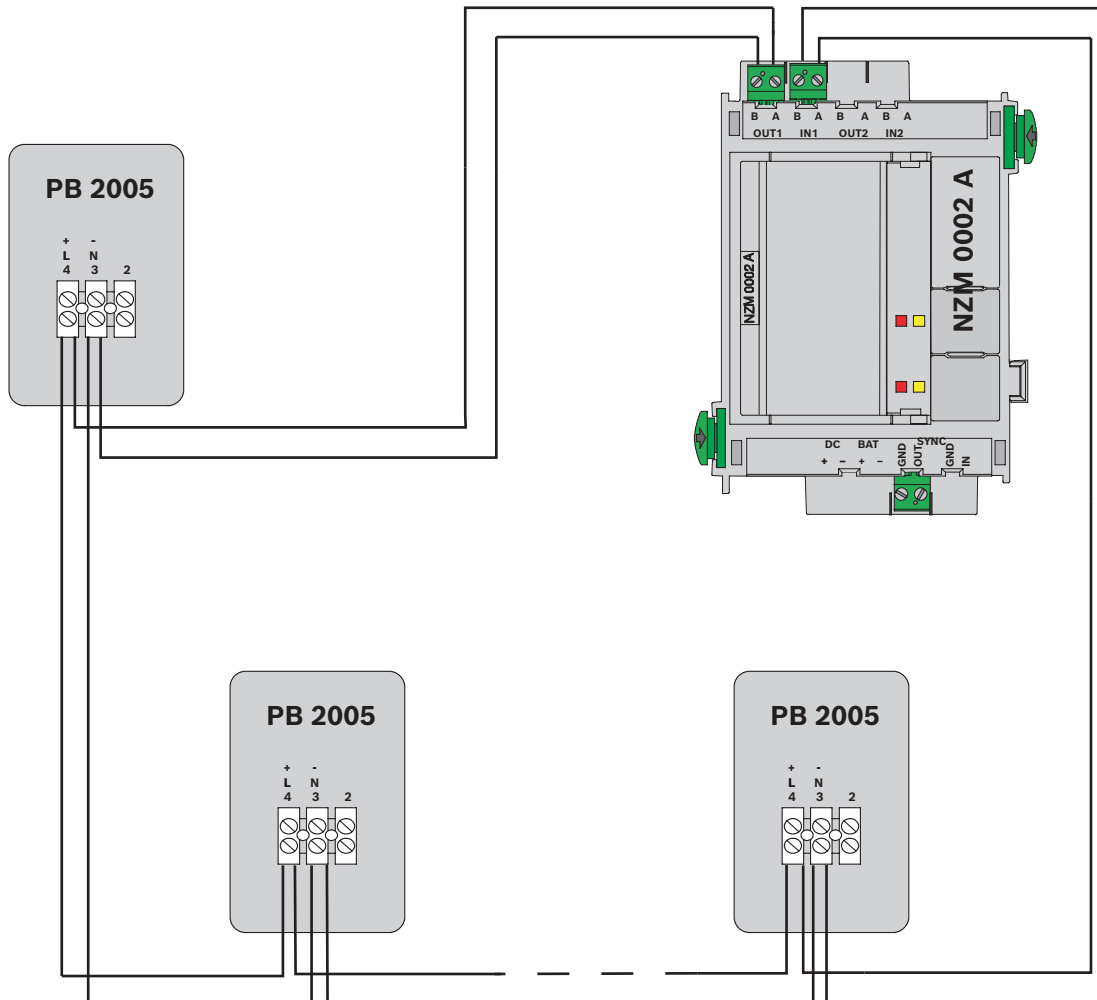
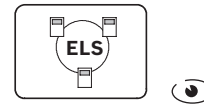


**ROLP-W-LX
FNM-320**



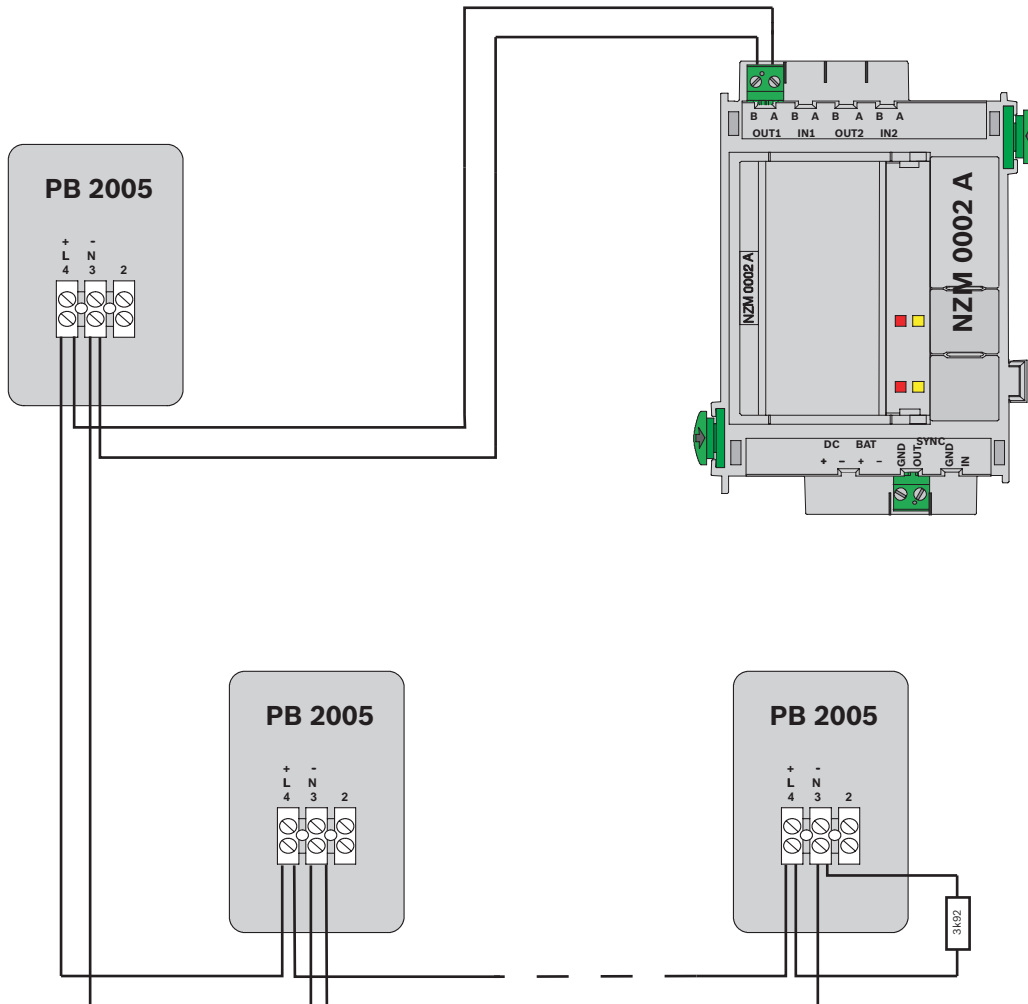
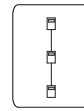


PB 2005



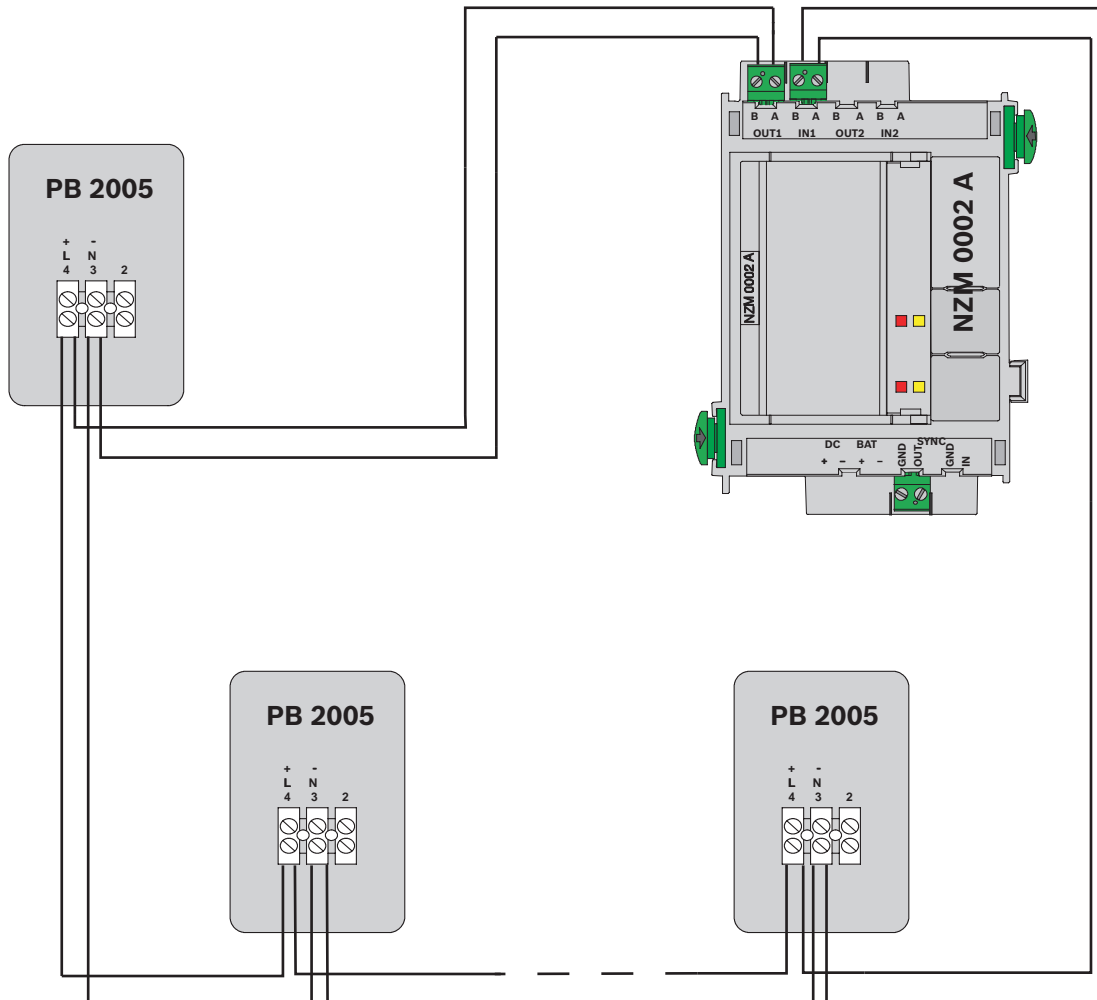
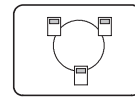


PB 2005



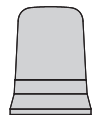


PB 2005

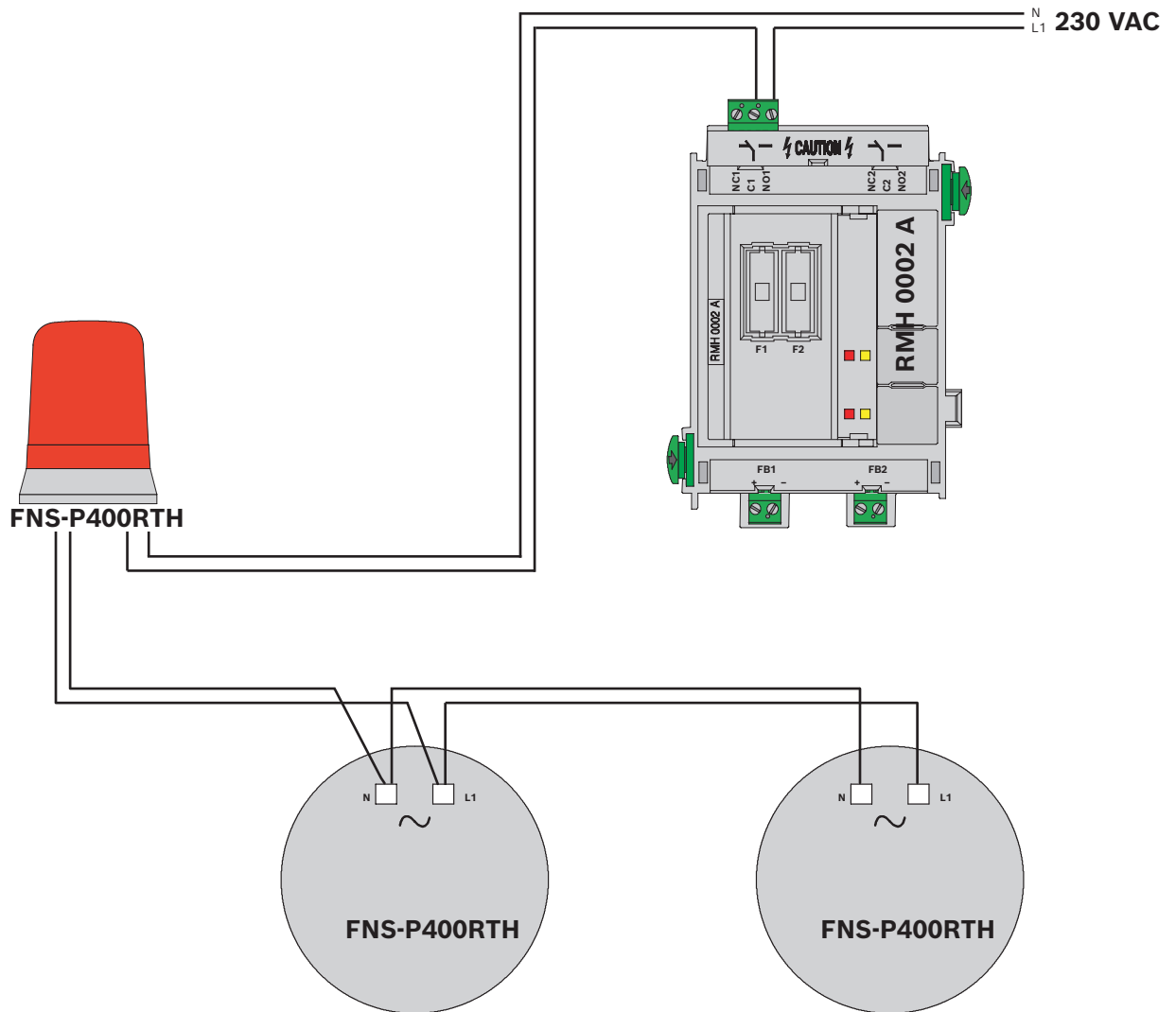
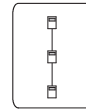


2.4.6

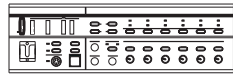
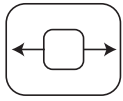
RMH 0002 A



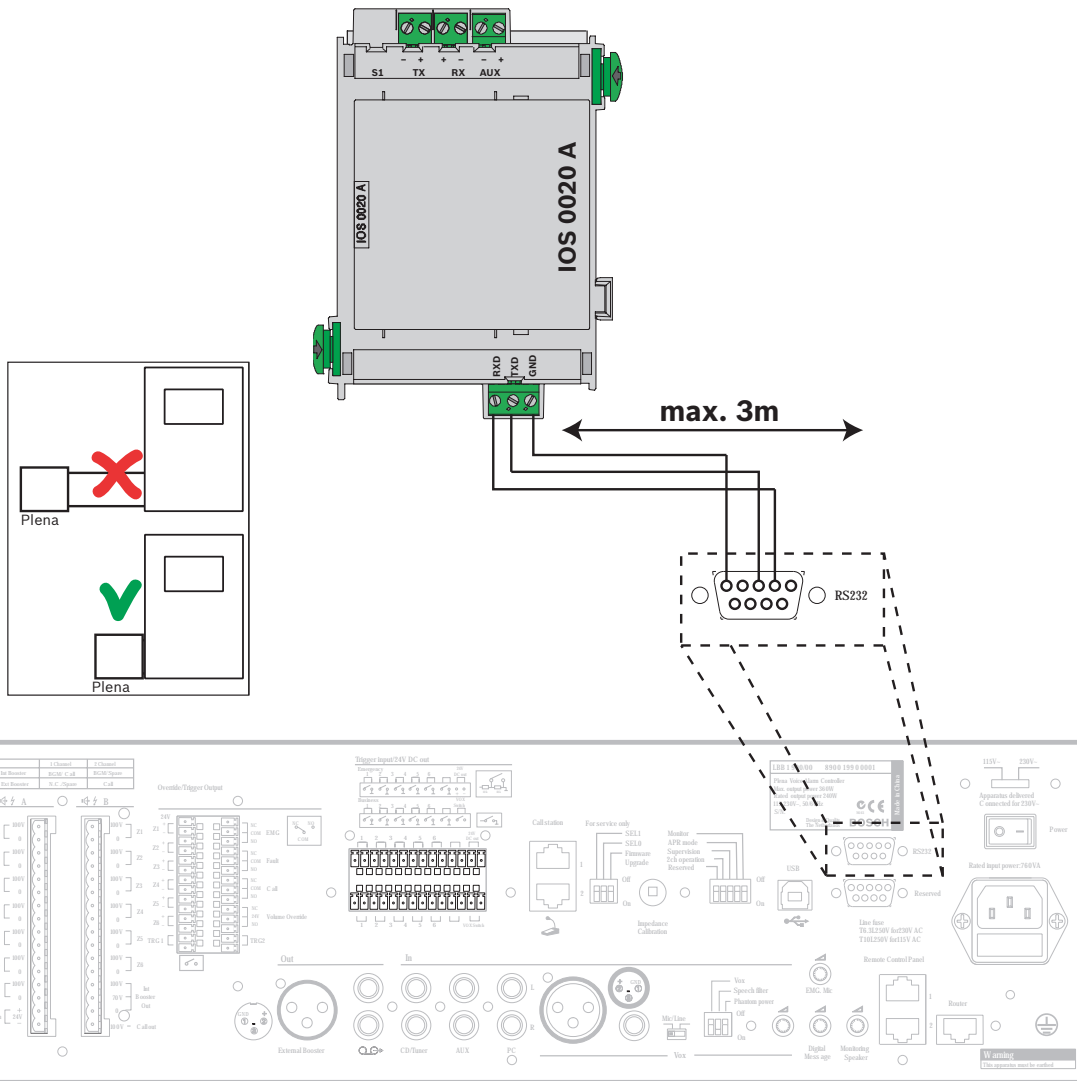
FNS-P400RTH



2.4.7 IOS 0020 A



Plena

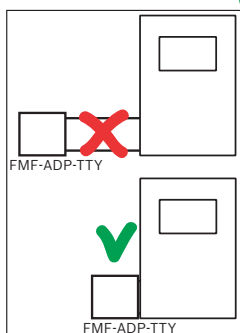
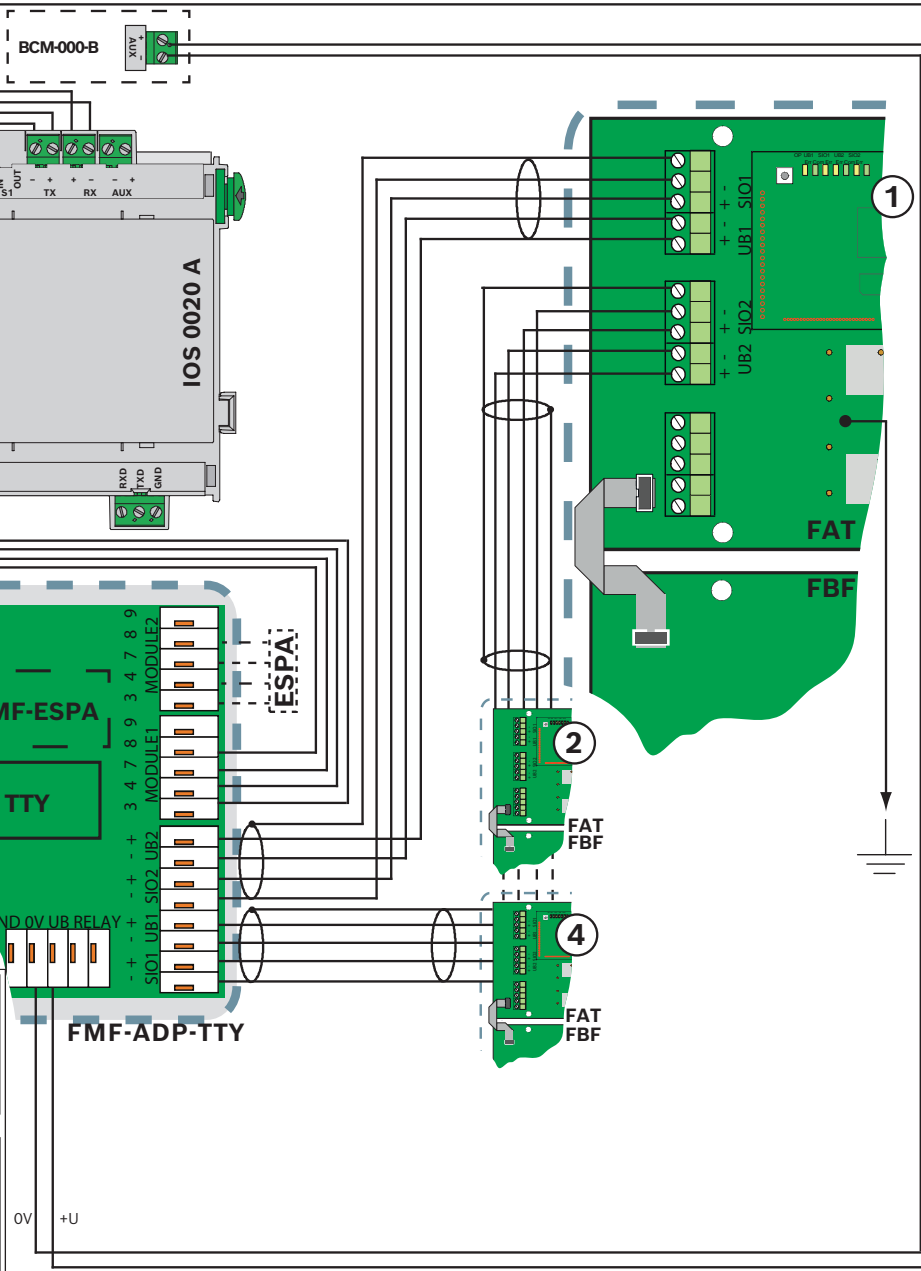




FAT4000 FBF4000 ADP4000

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

ELS

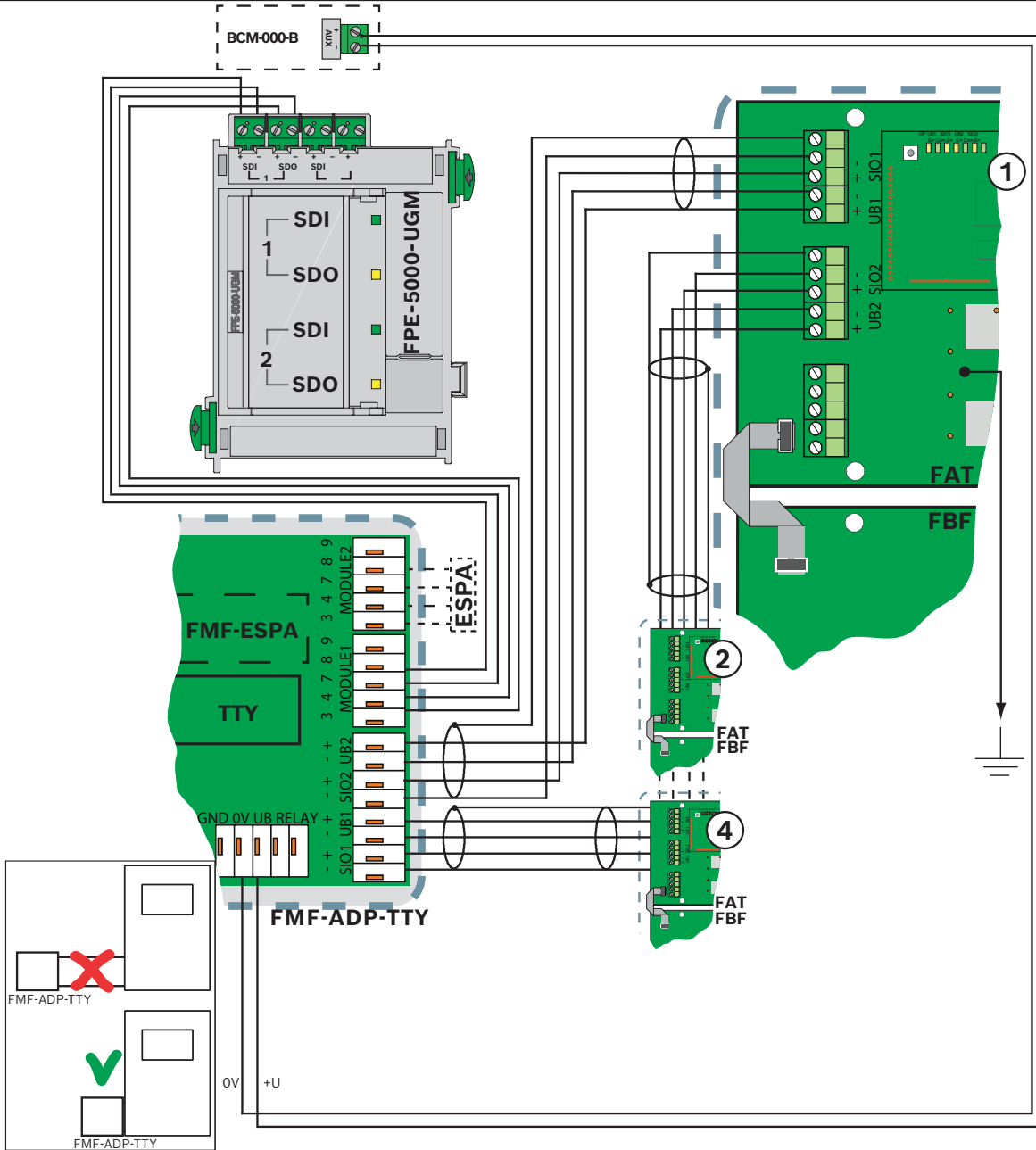


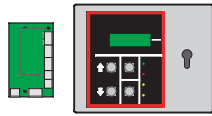
2.4.8 FPE-5000-UGM



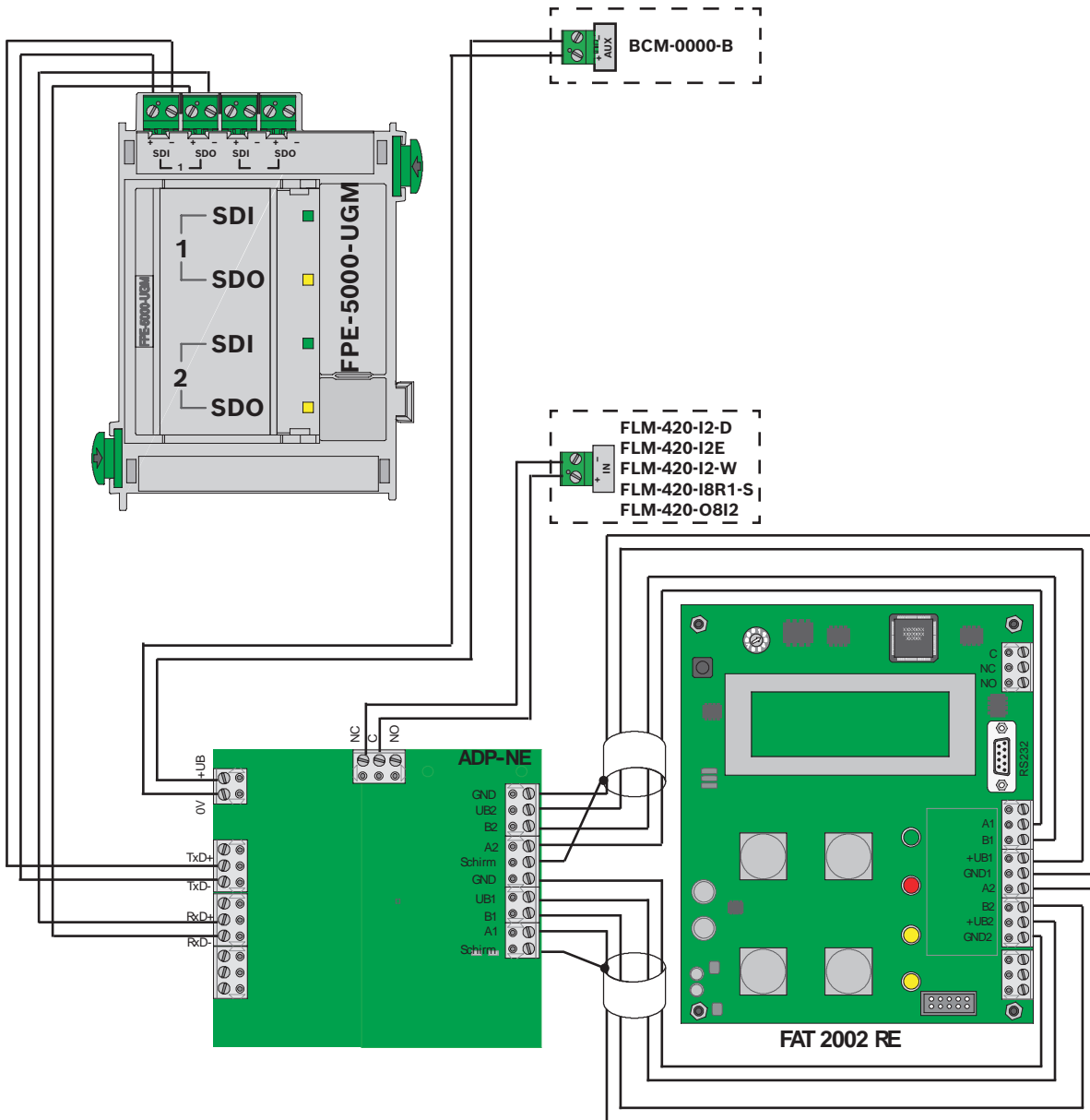
FAT4000 FBF4000 ADP4000
 FMF-FAT FMF-FBF-FAT
 FMF-FIBS-A4/-A3
 FMF-ADP

ELS





FAT2002RE
ADP-NE



2.5

Interface Modules



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

FLM-420-I8R1-S, pagina 158

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

FLM-420-RHV, pagina 172

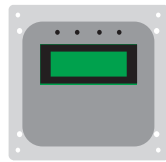
FLM-420-RLE-S, pagina 184

FLM-420-RLV1-E, pagina 185

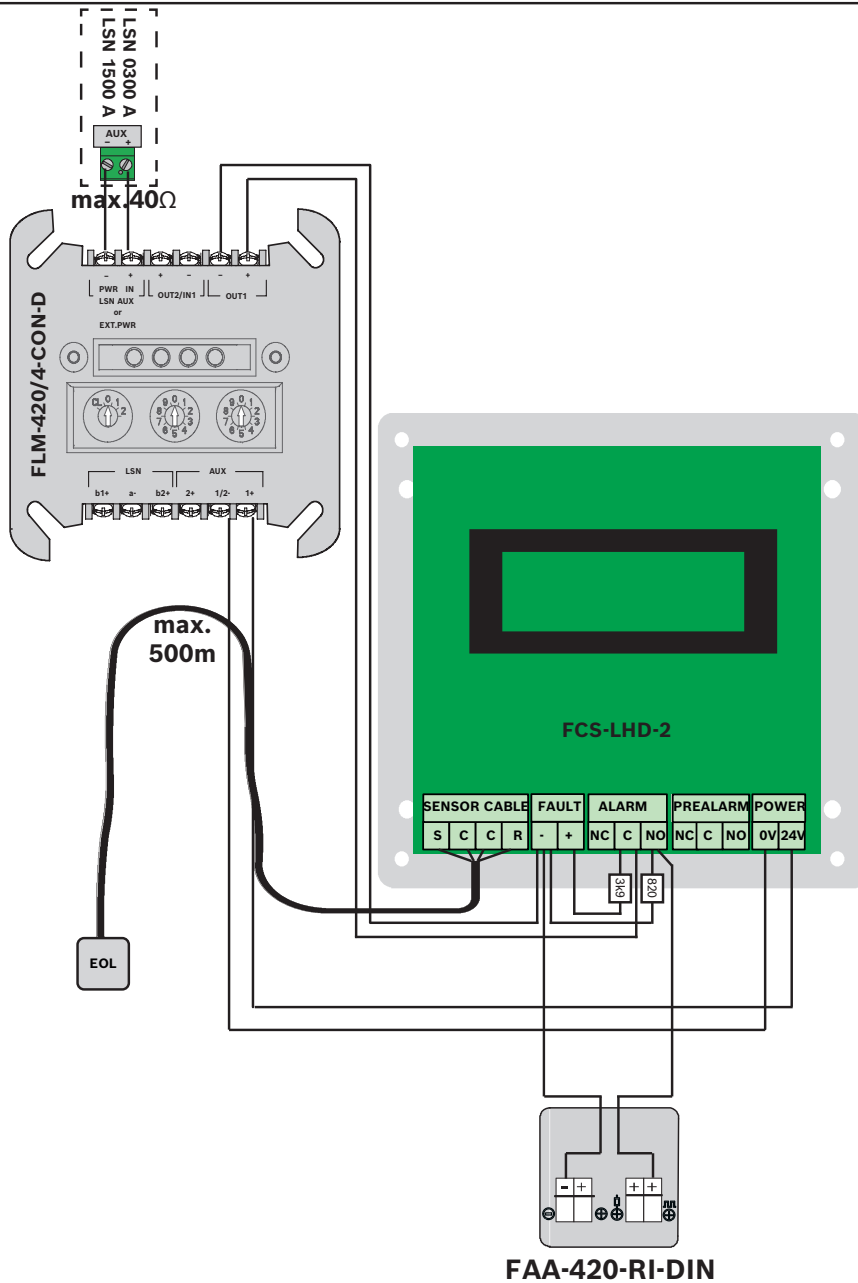
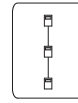
FLM-420-RLV8-S, pagina 186

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

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

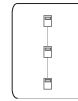


ALARMLINE II



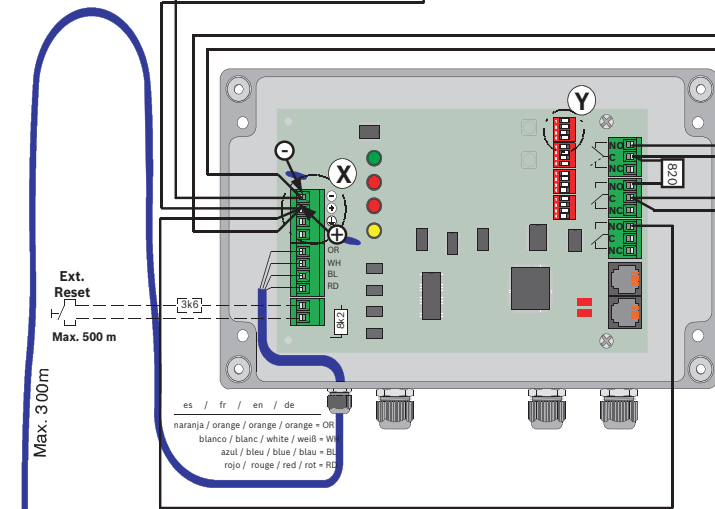
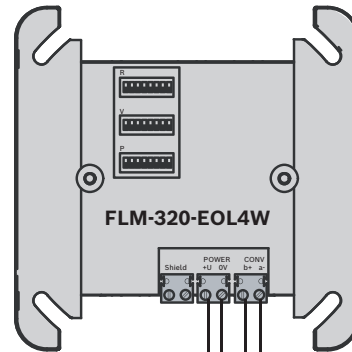
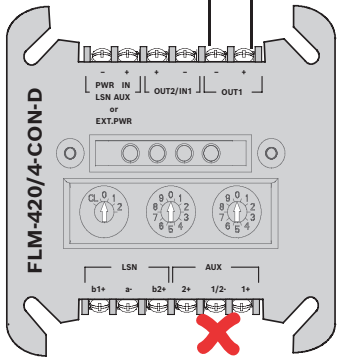


FCS-LWM-1



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



Ext. Reset
Max. 500 m

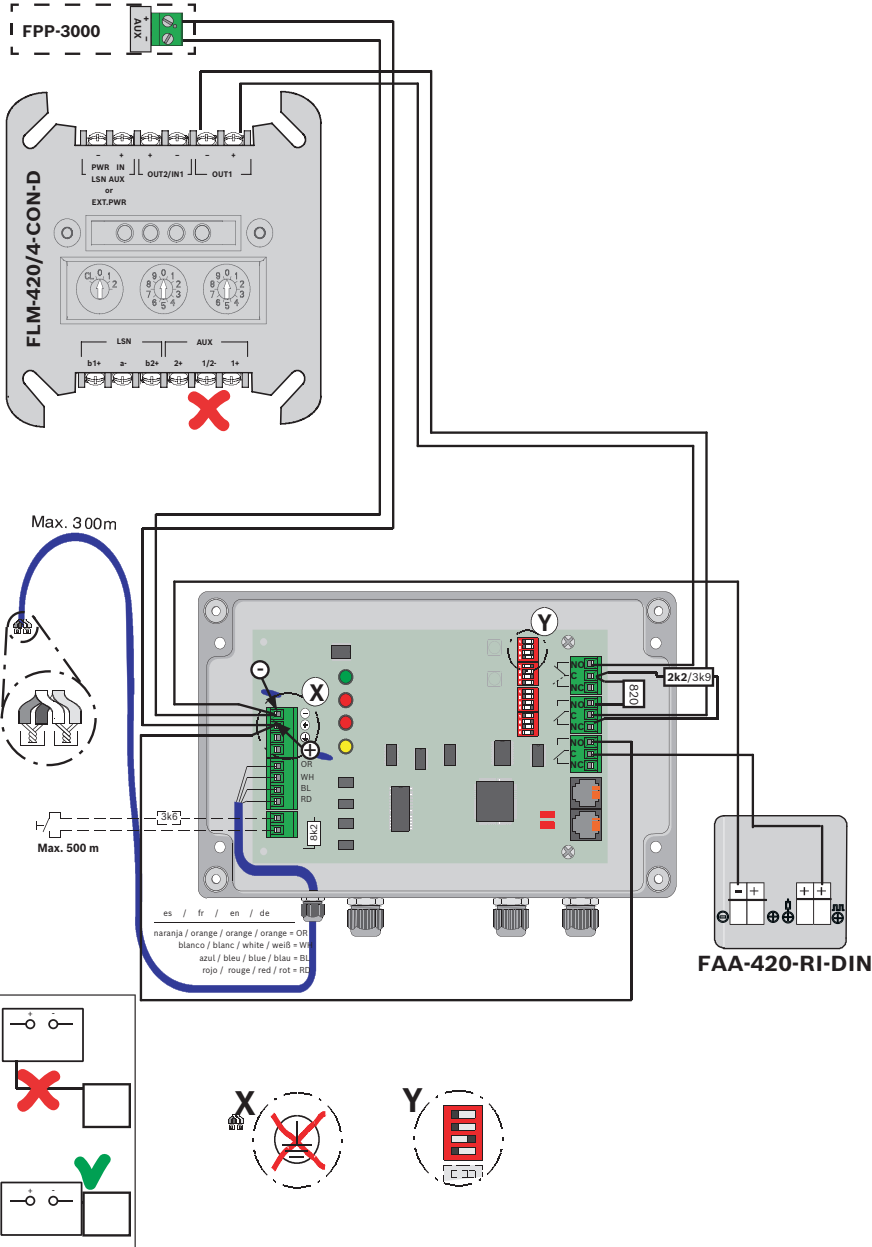
Max. 300m

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



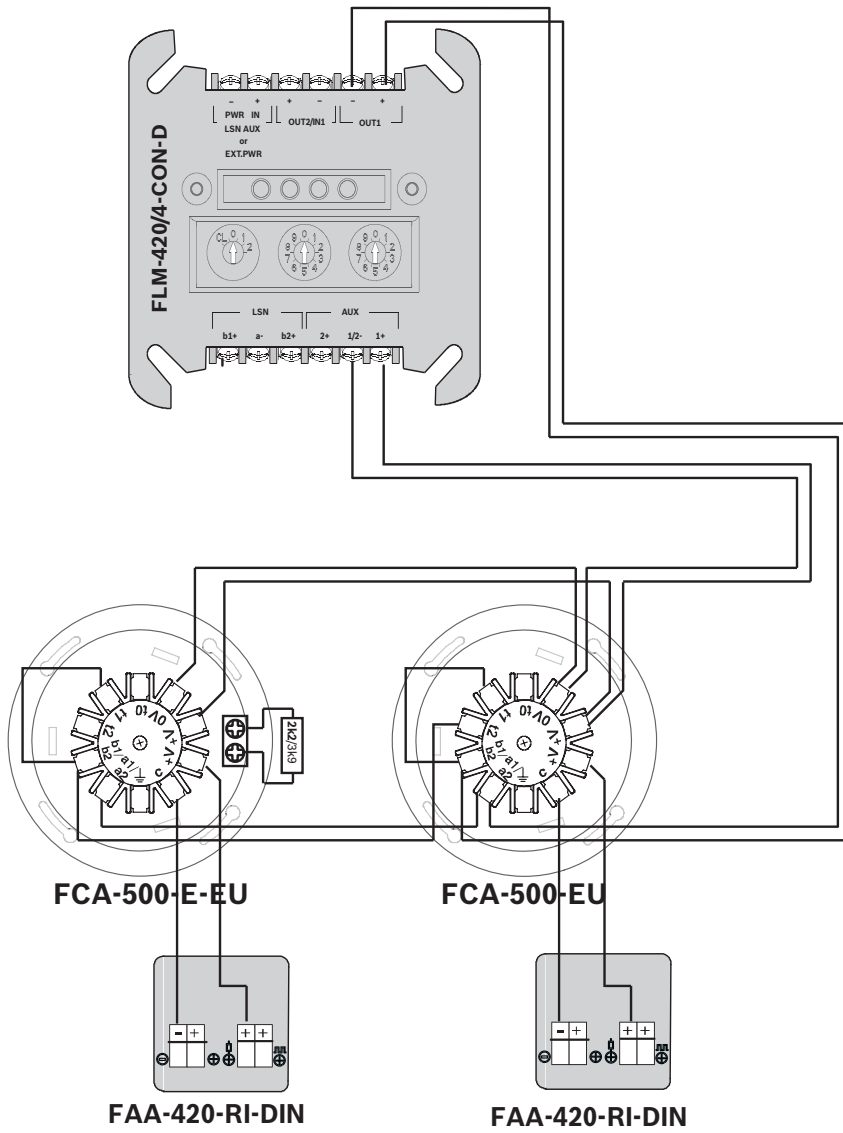


FCS-LWM-1



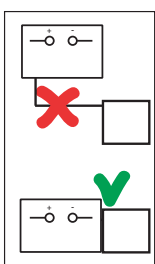
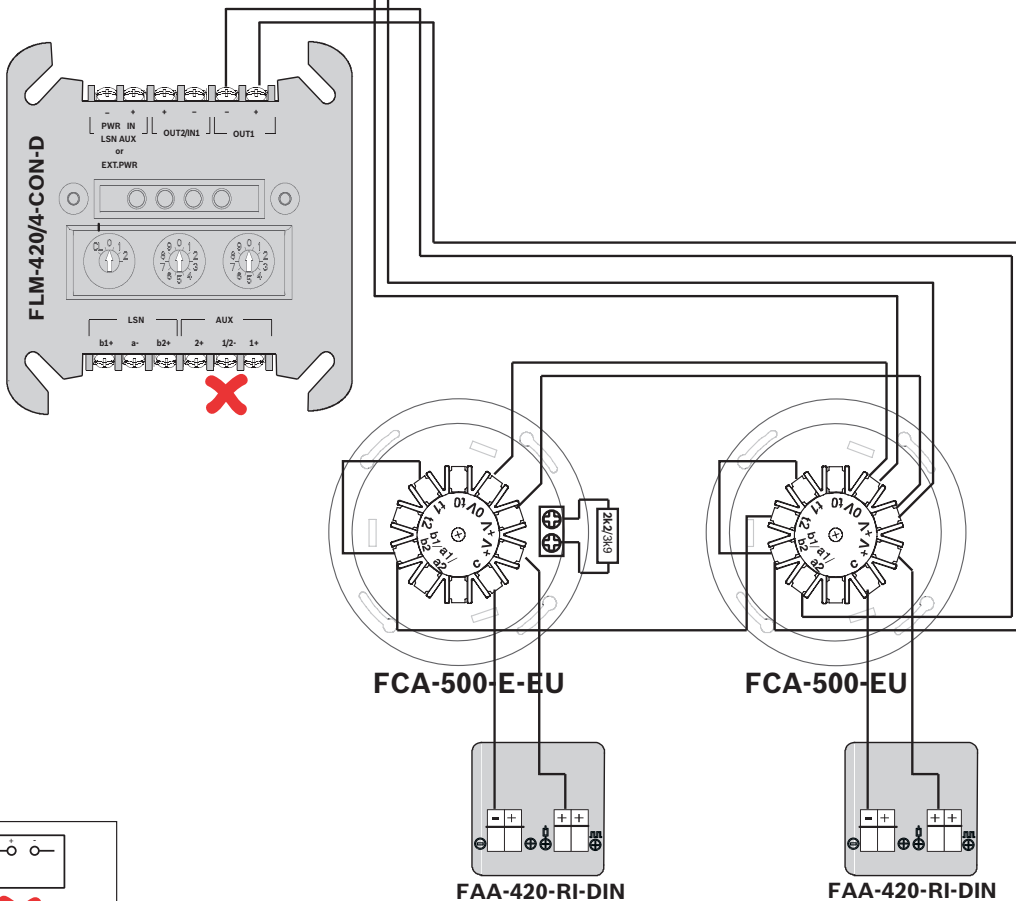


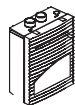
FCP-500





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

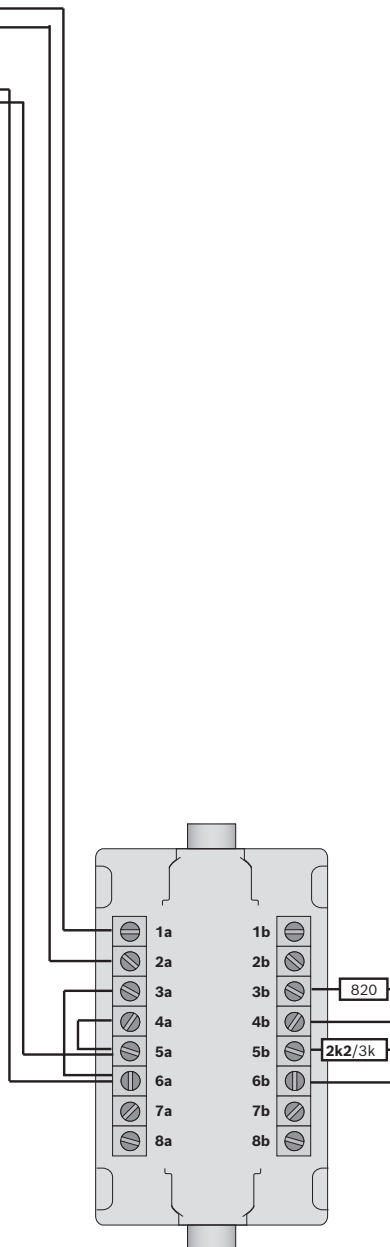
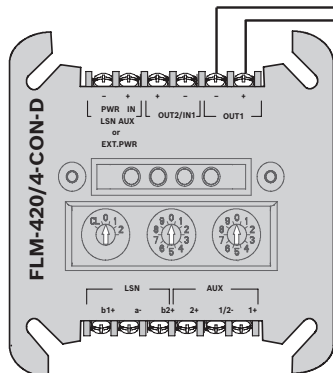


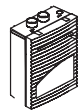


FCS-320-TM Series

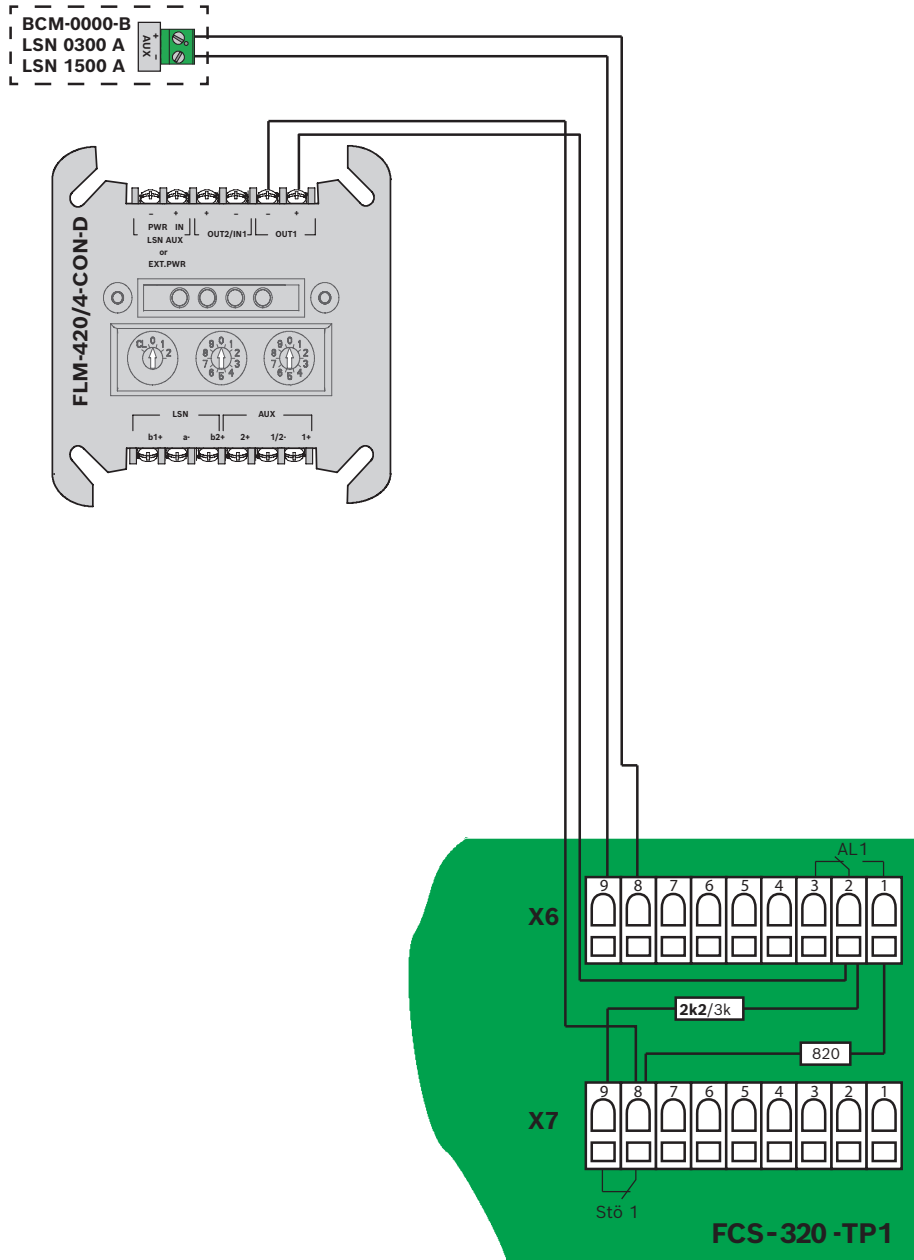
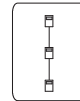


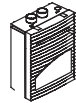
BCM-0000-B
LSN 0300 A
LSN 1500 A



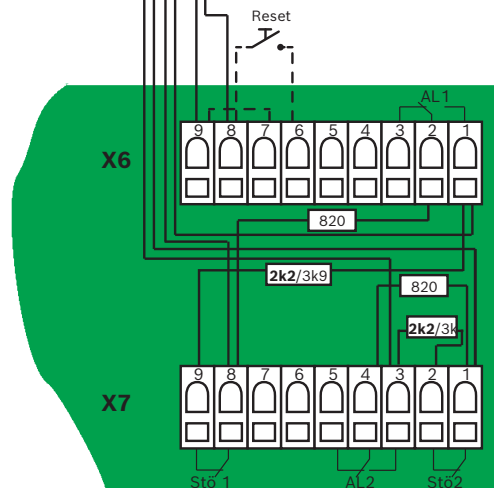
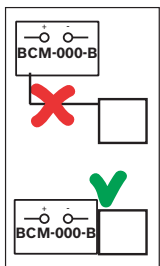
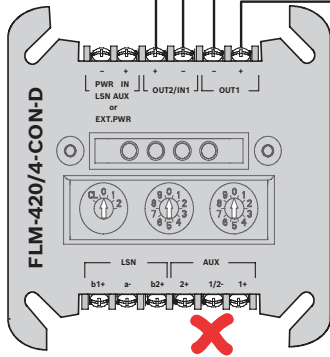
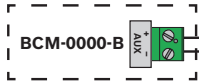


FCS-320-TP Series

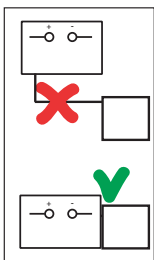
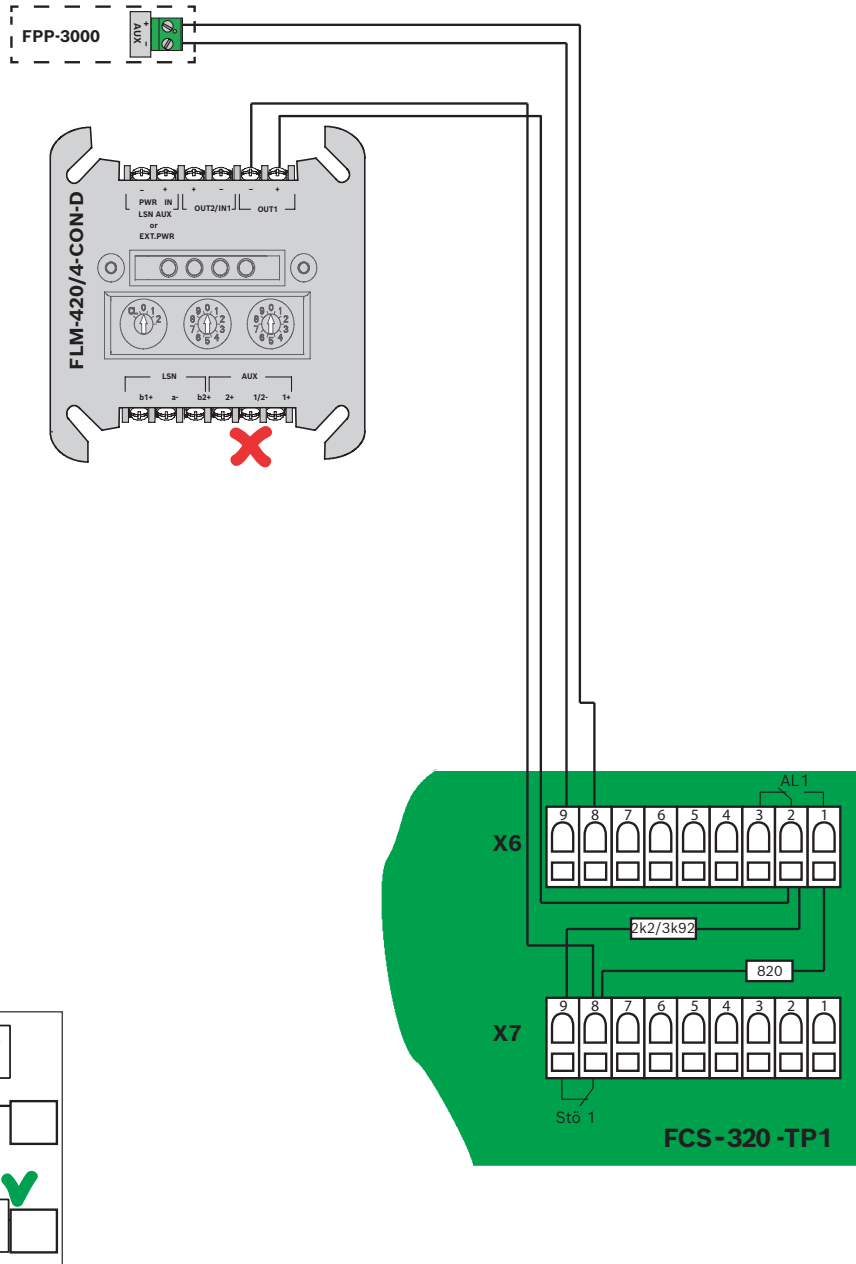
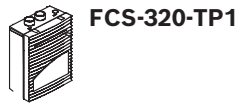


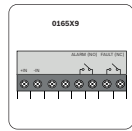


FCS-320-TP Series

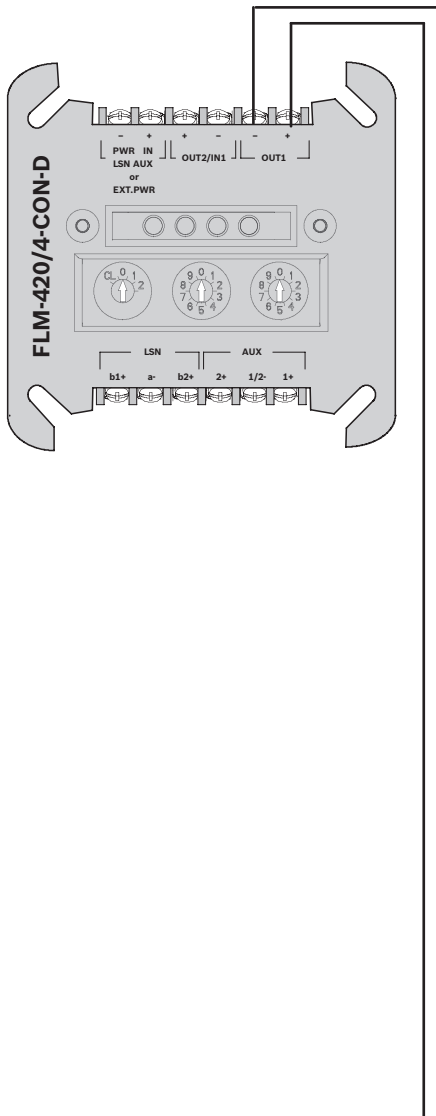
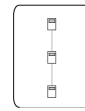


FCS-320-TP2

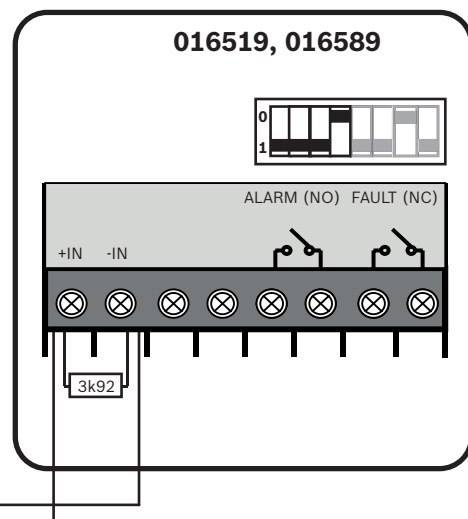


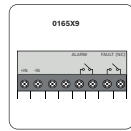


**016519, 016589
IR3 Flame Detector**

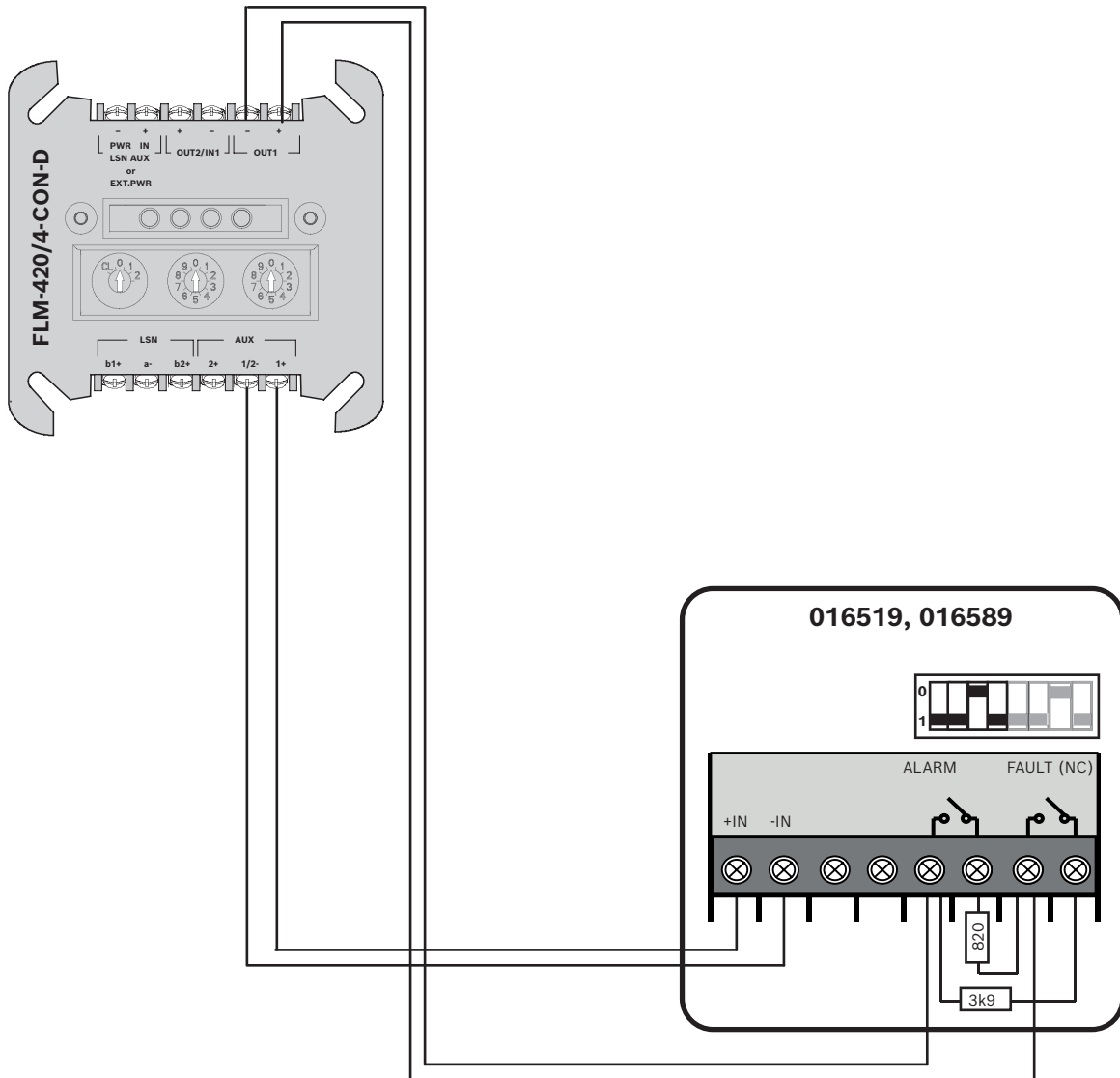
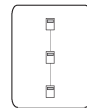


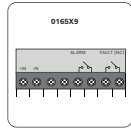
max. 1 x 0165X9



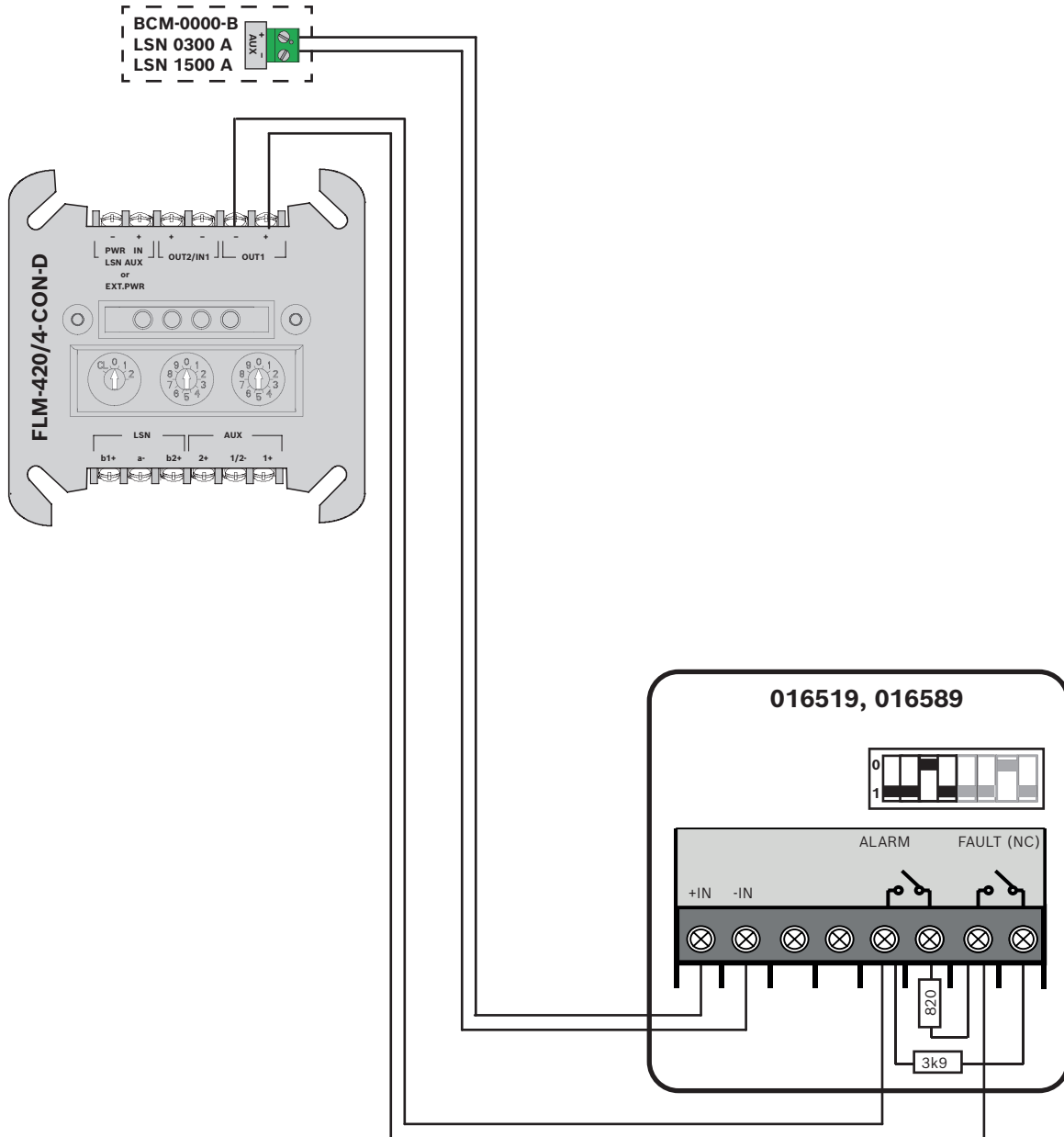
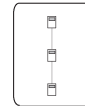


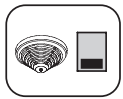
016519, 016589
IR3 Flame Detector



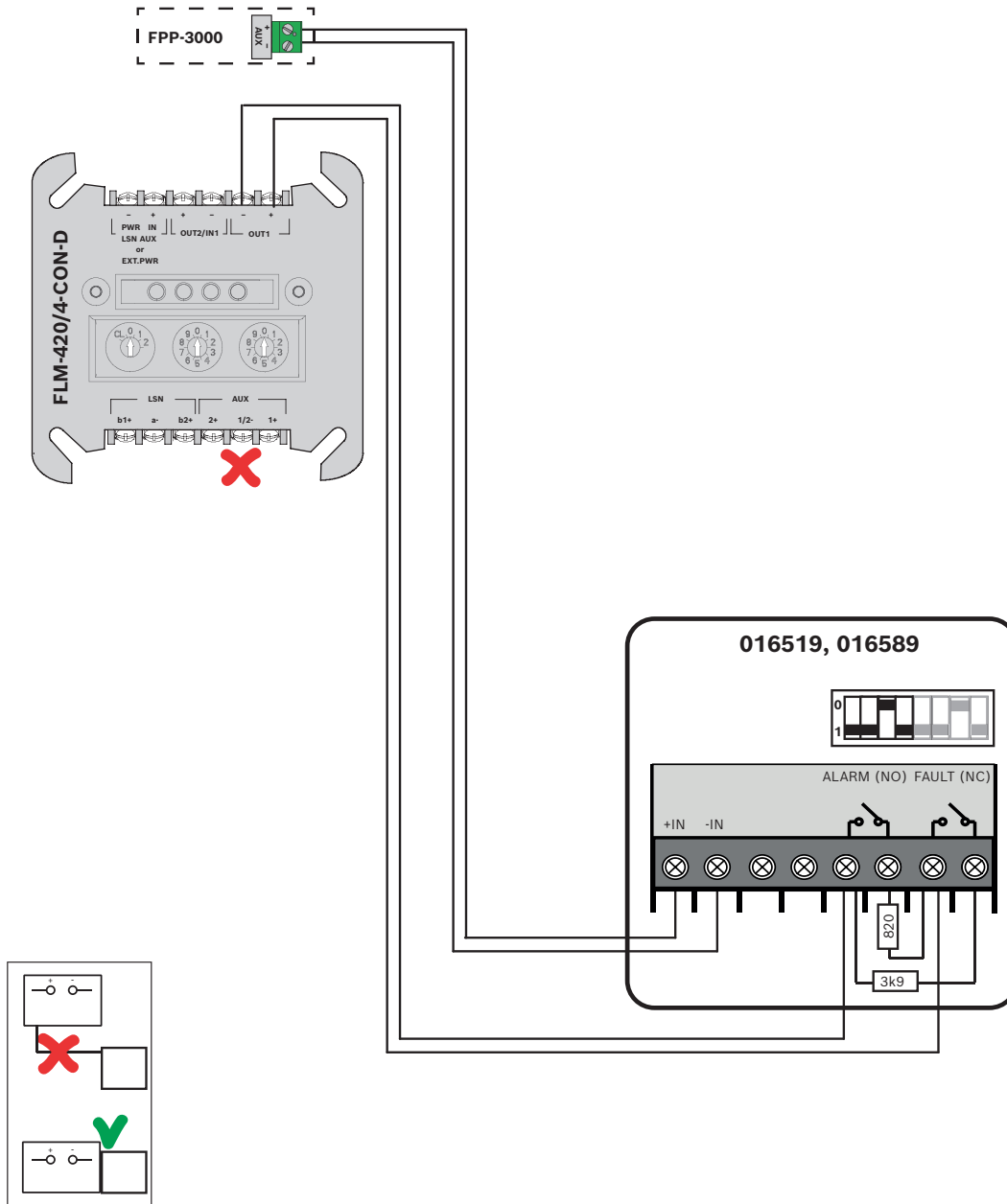


016519, 016589 IR3 Flame Detector



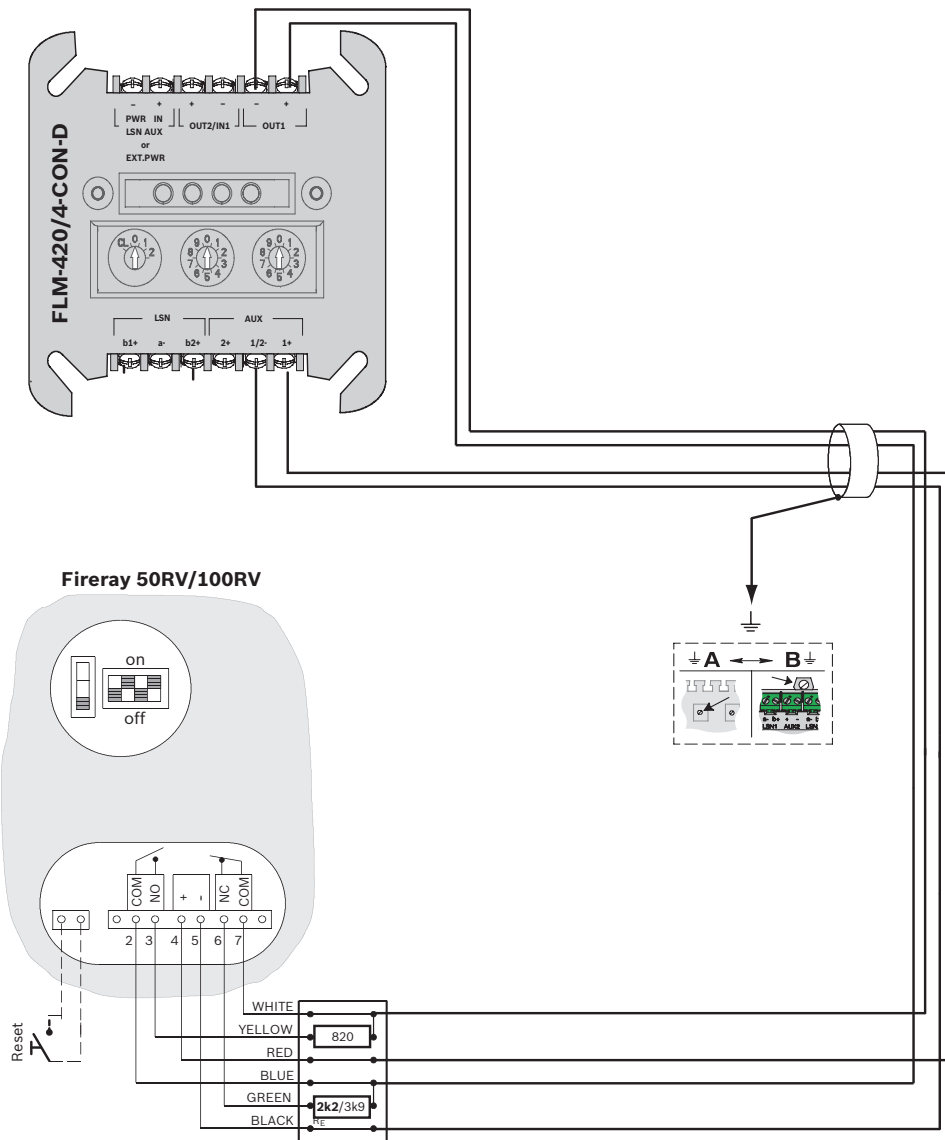


**016519, 016589
IR3 Flame Detector**





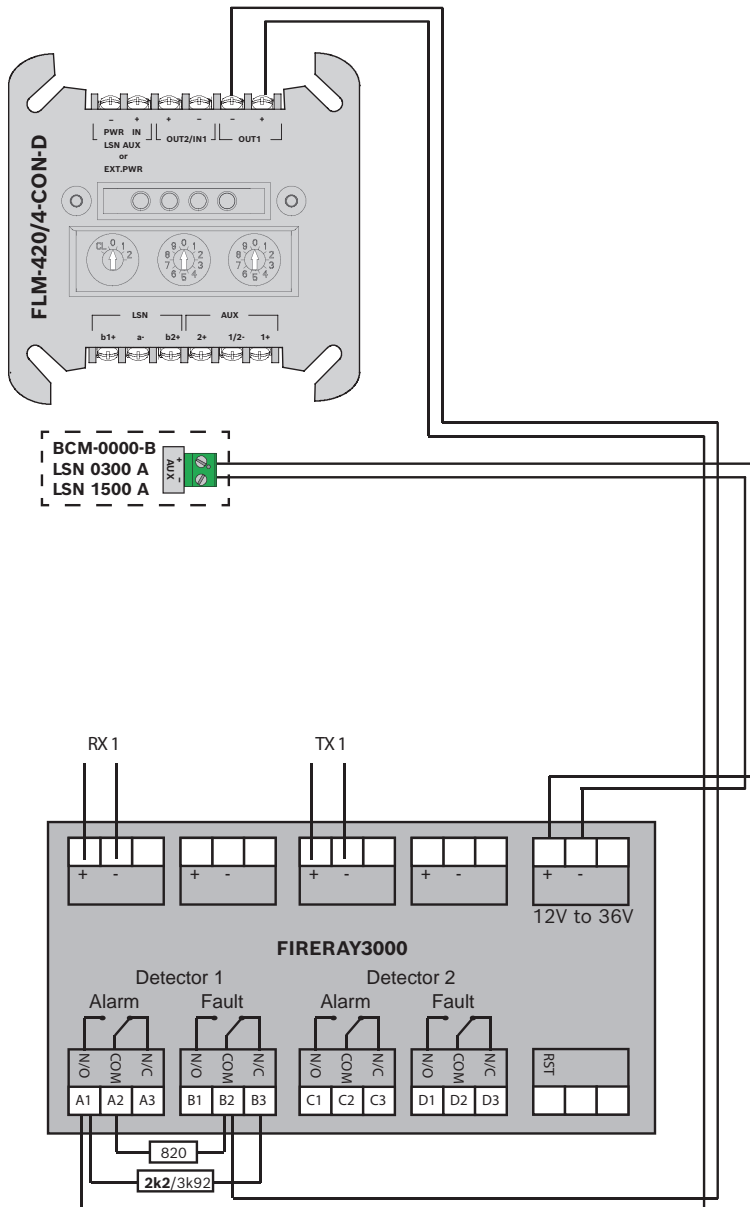
**Fireray 50RV
Fireray 100RV**





FIRERAY3000

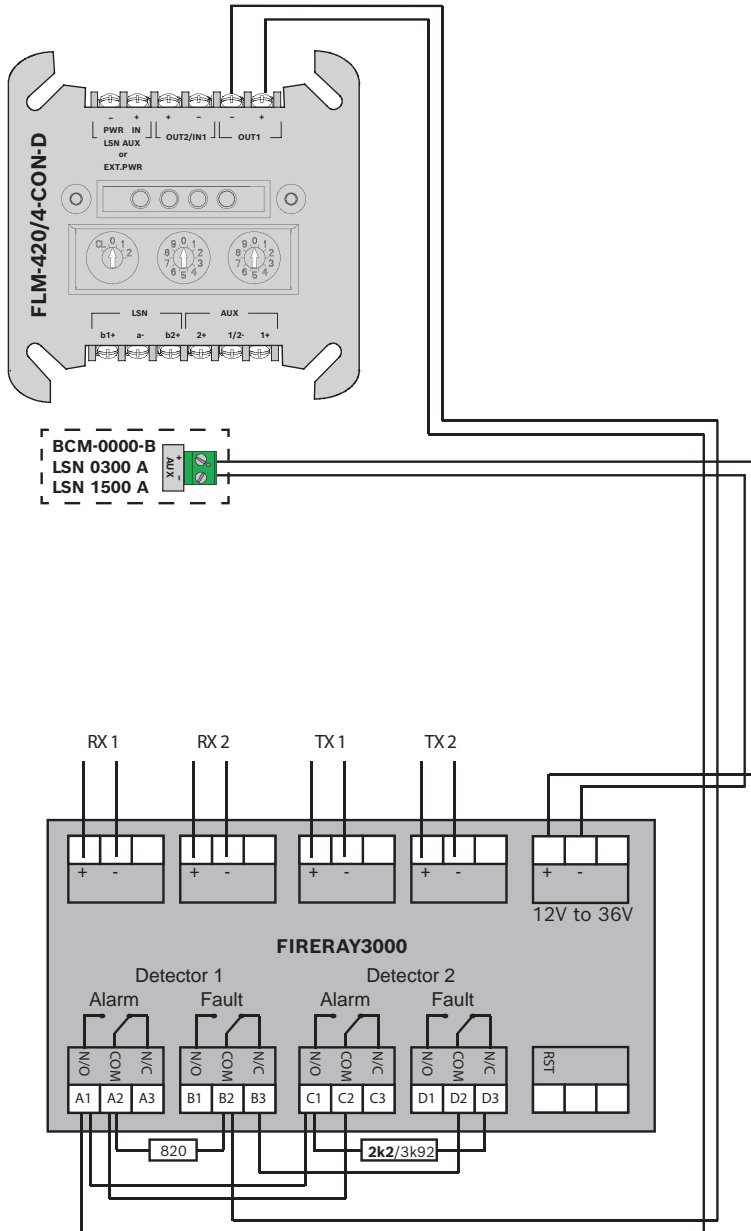
1 x





FIRERAY3000

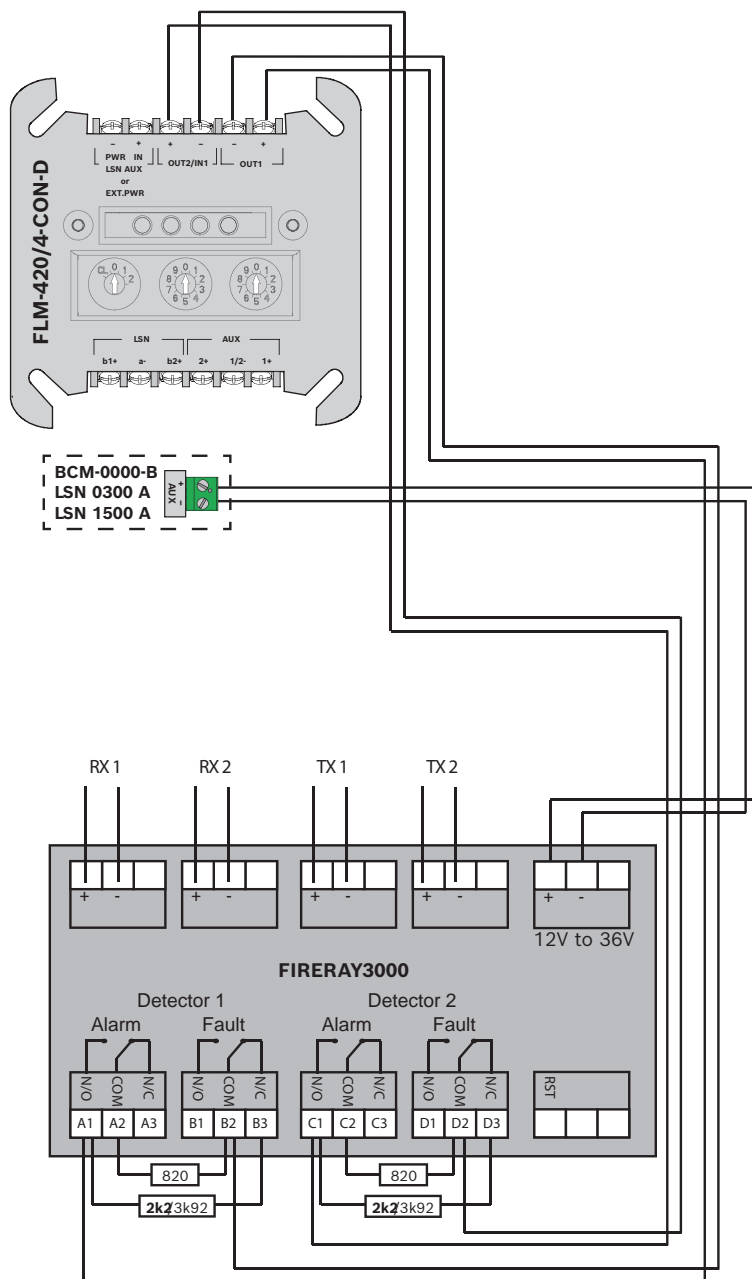
2 x **OUT1**





FIRERAY3000

2 x **OUT1+2**

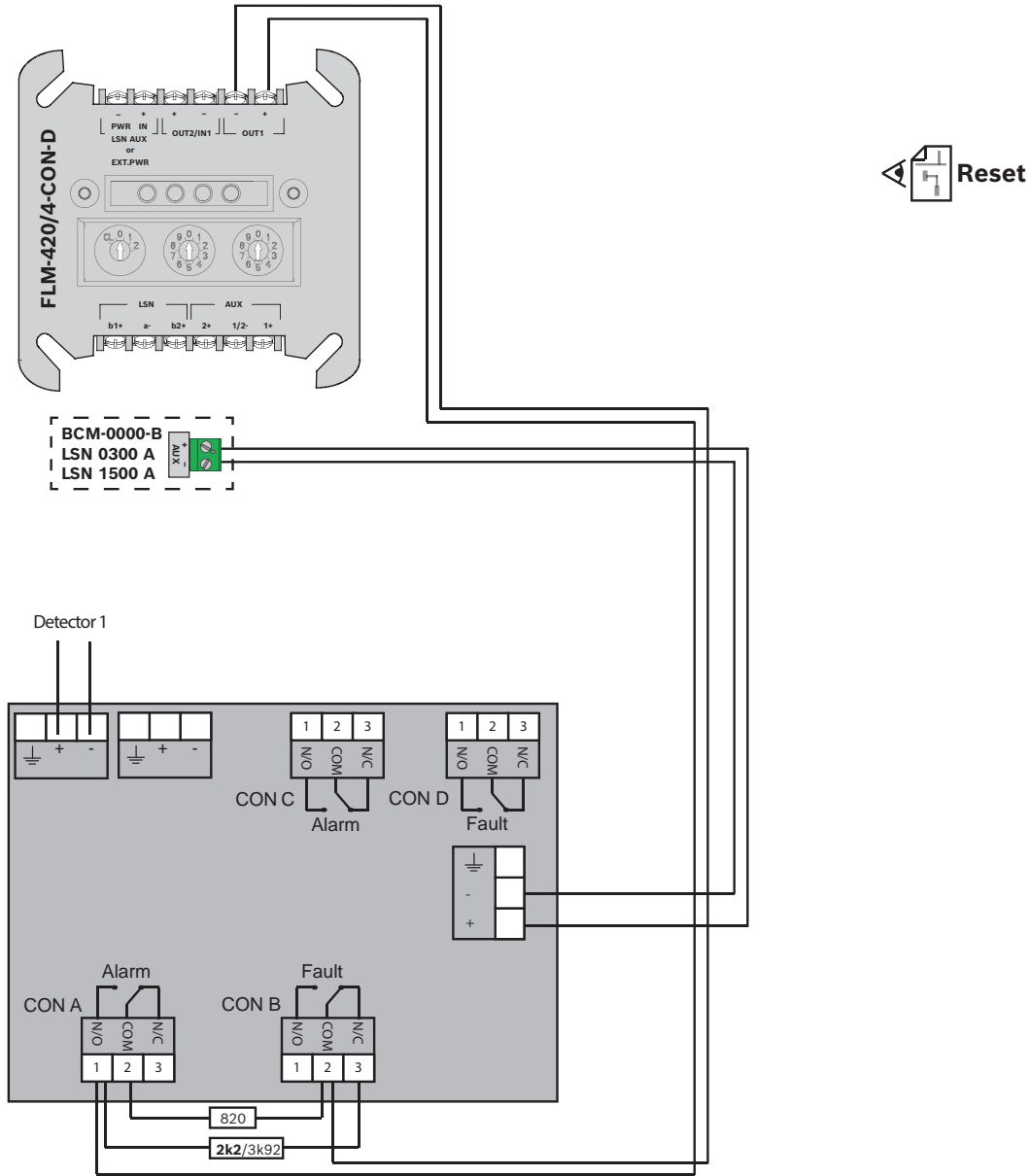


Reset action



FIRERAY5000

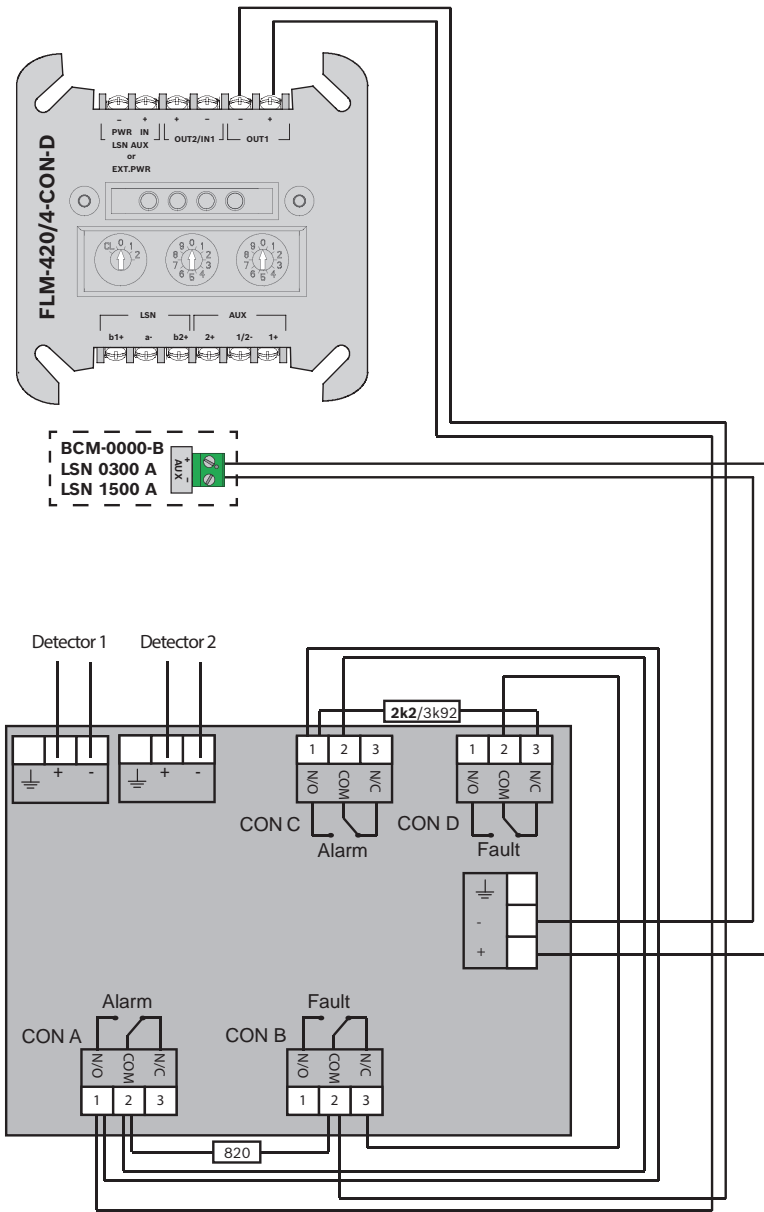
1 x

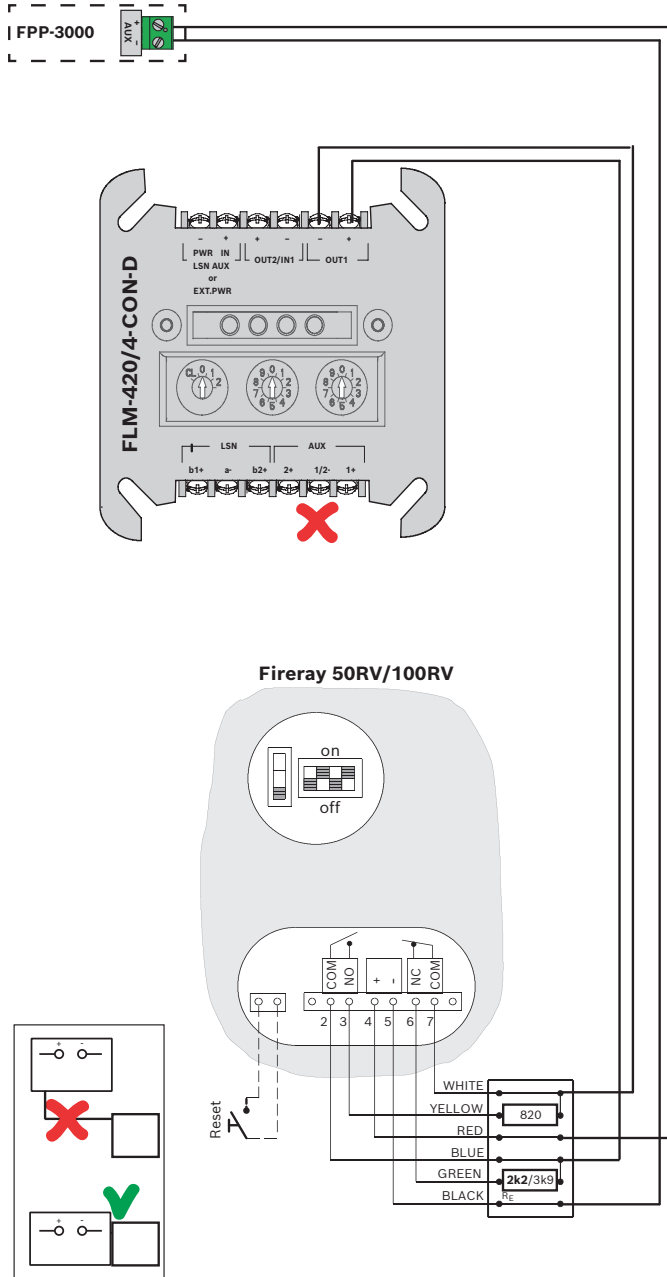




FIRERAY5000

2 x OUT1

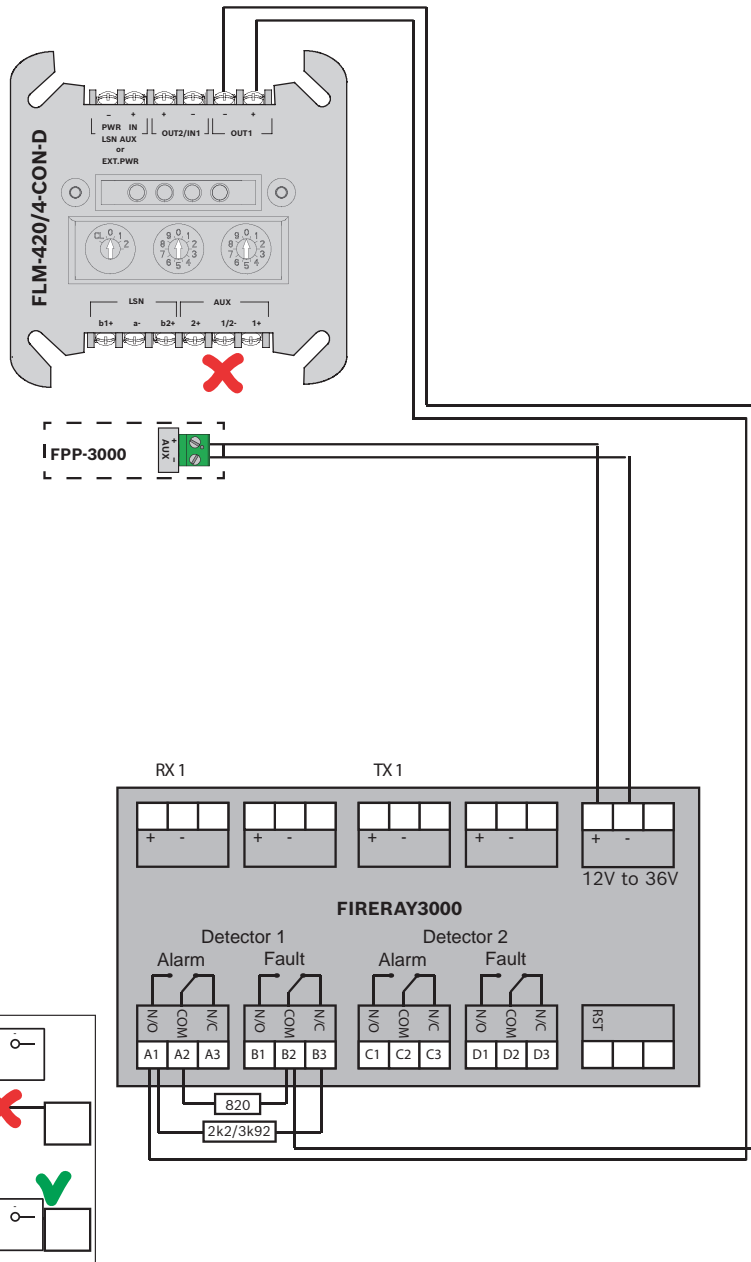






FIRERAY3000

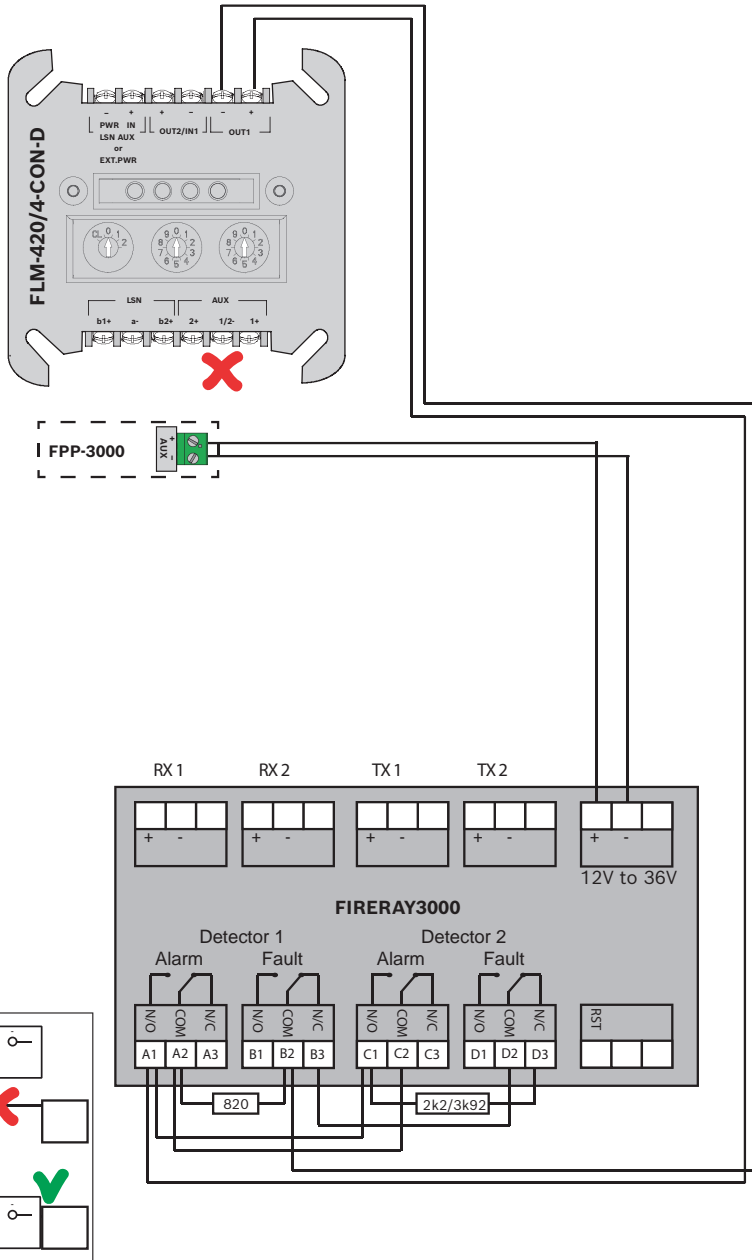
1 x



Reset action



FIRERAY3000
2 x  **OUT1**

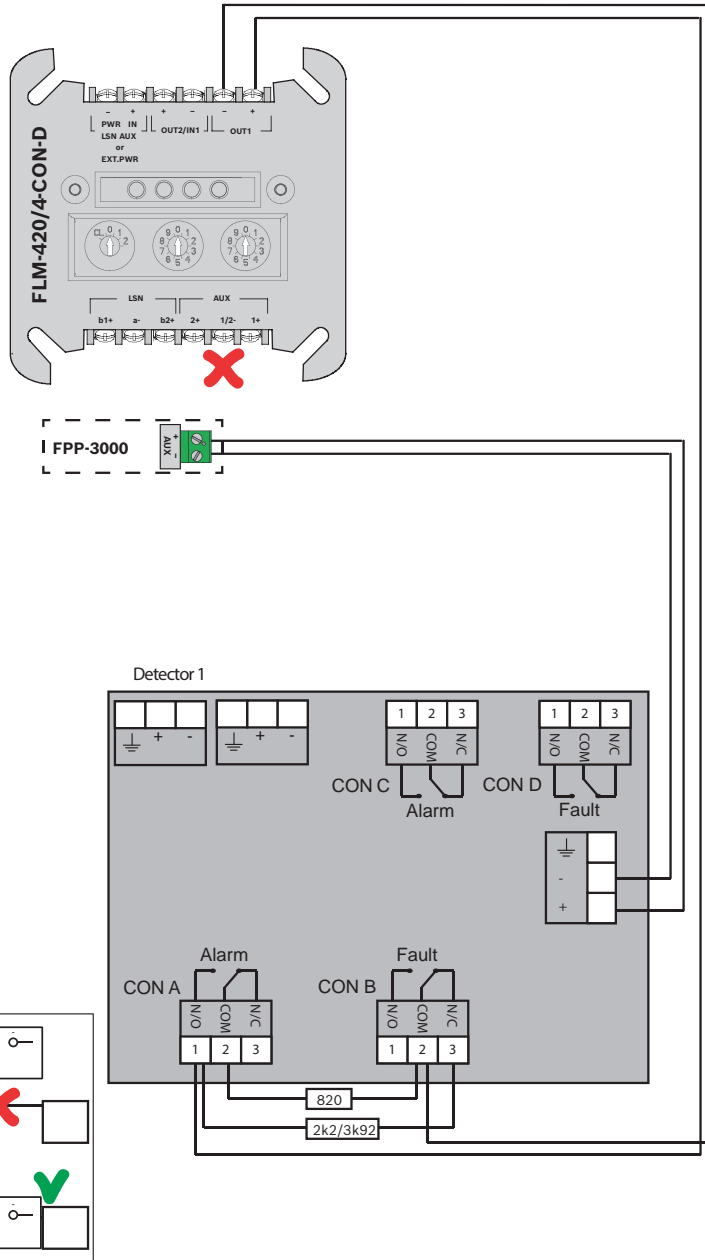


 **Reset action**



FIRERAY5000

1 x

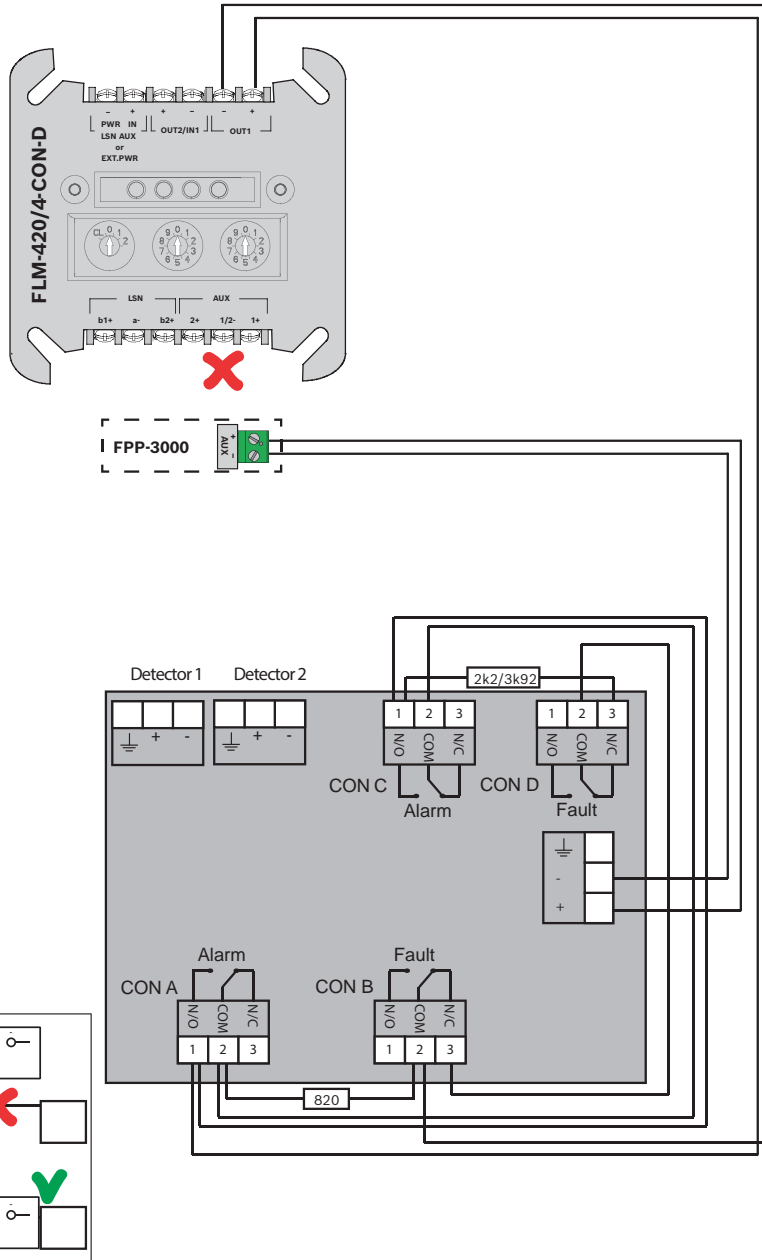


Reset action

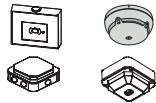


FIRERAY5000

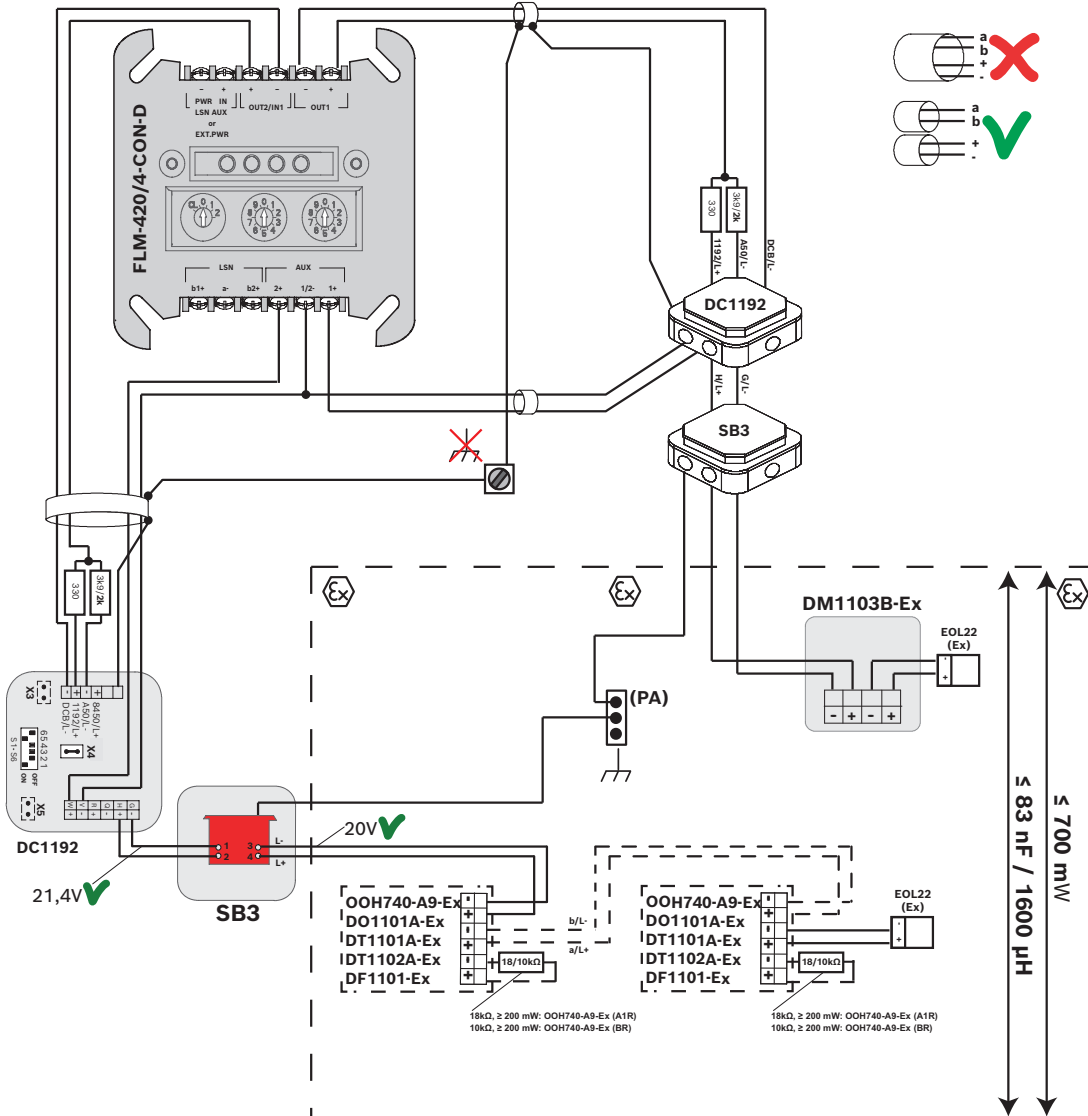
2 x OUT1



Reset action

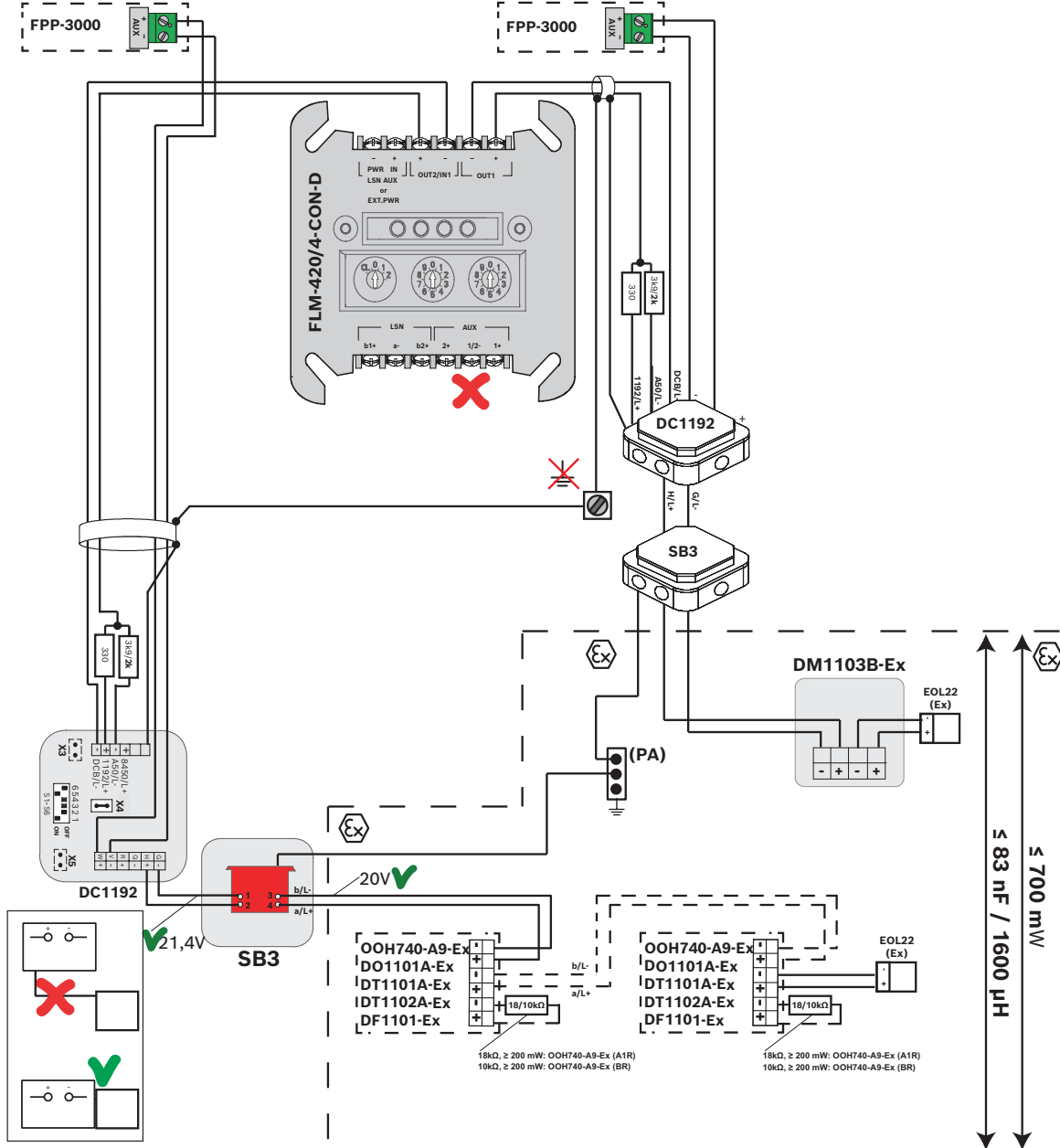


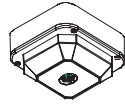
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex-
 /DT1102A-Ex
 DF1101-Ex



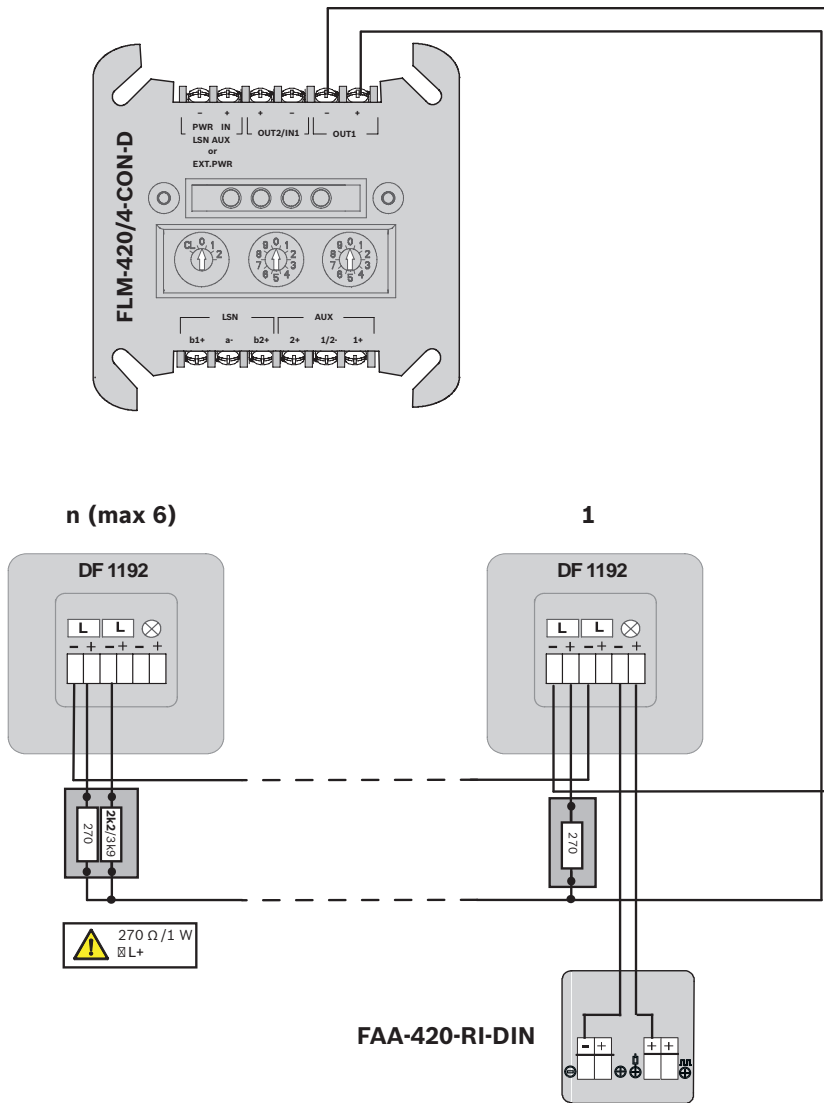


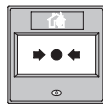
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



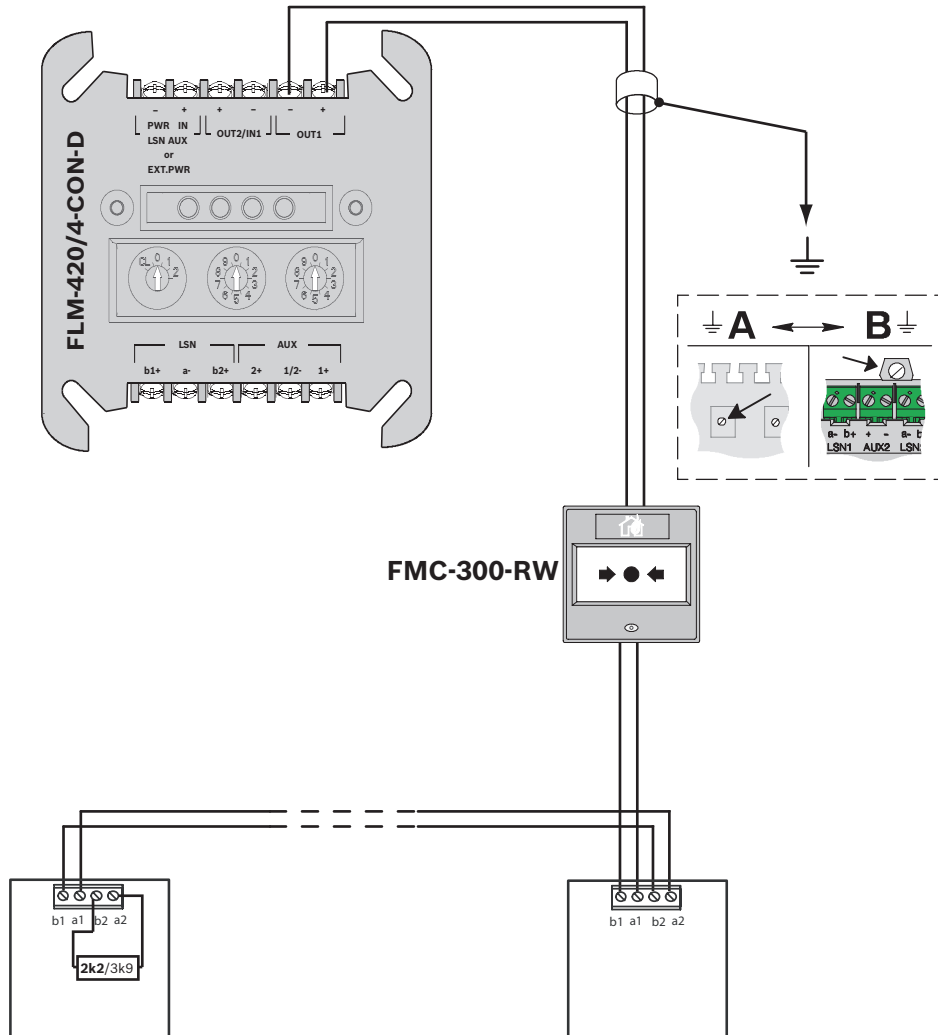
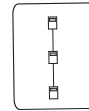


DF 1192



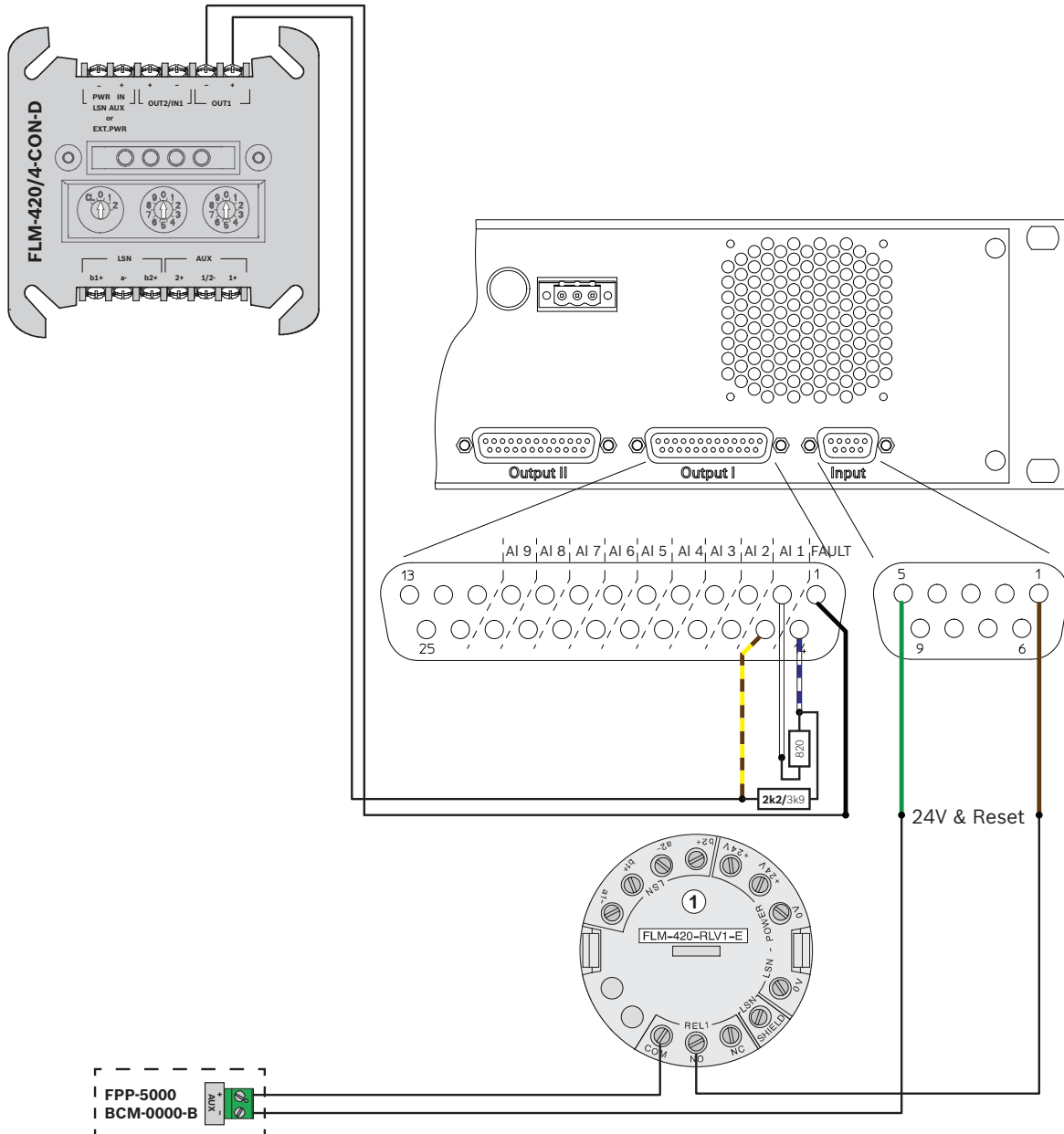


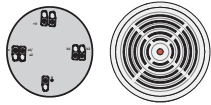
FMC-300-RW



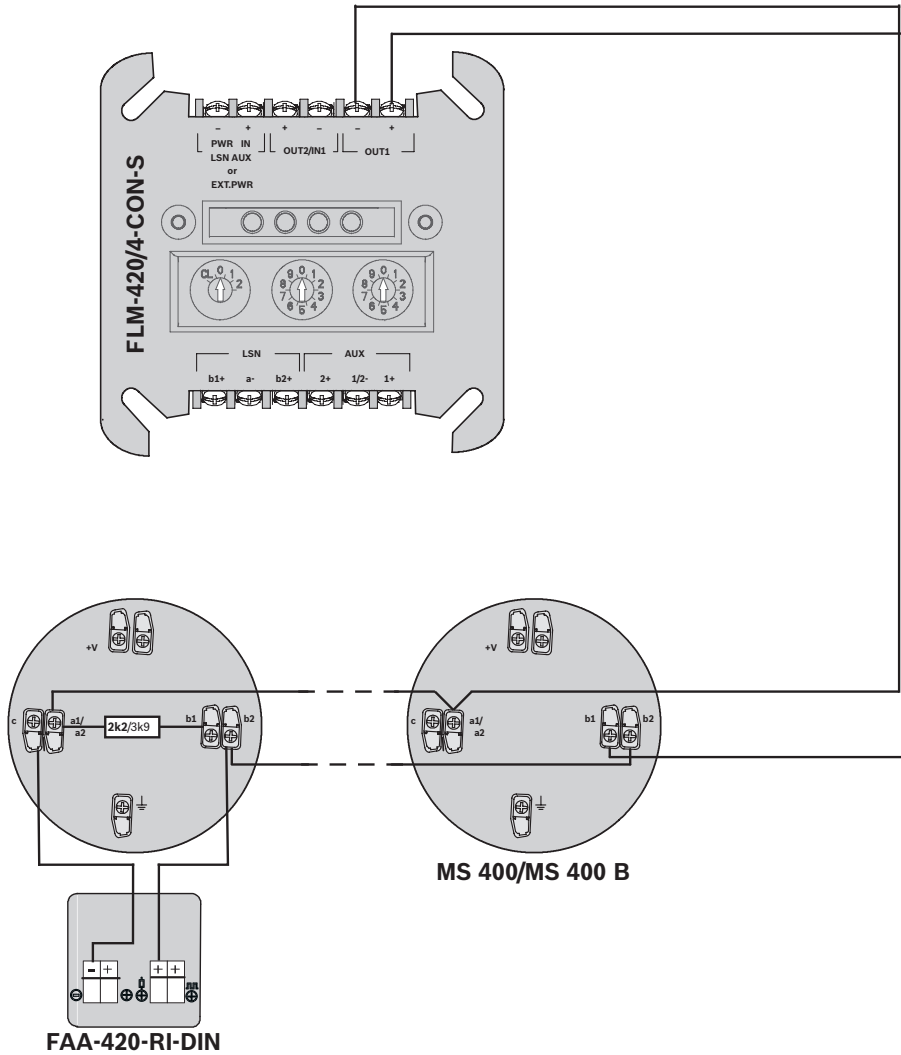


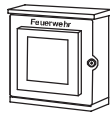
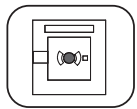
N4387A



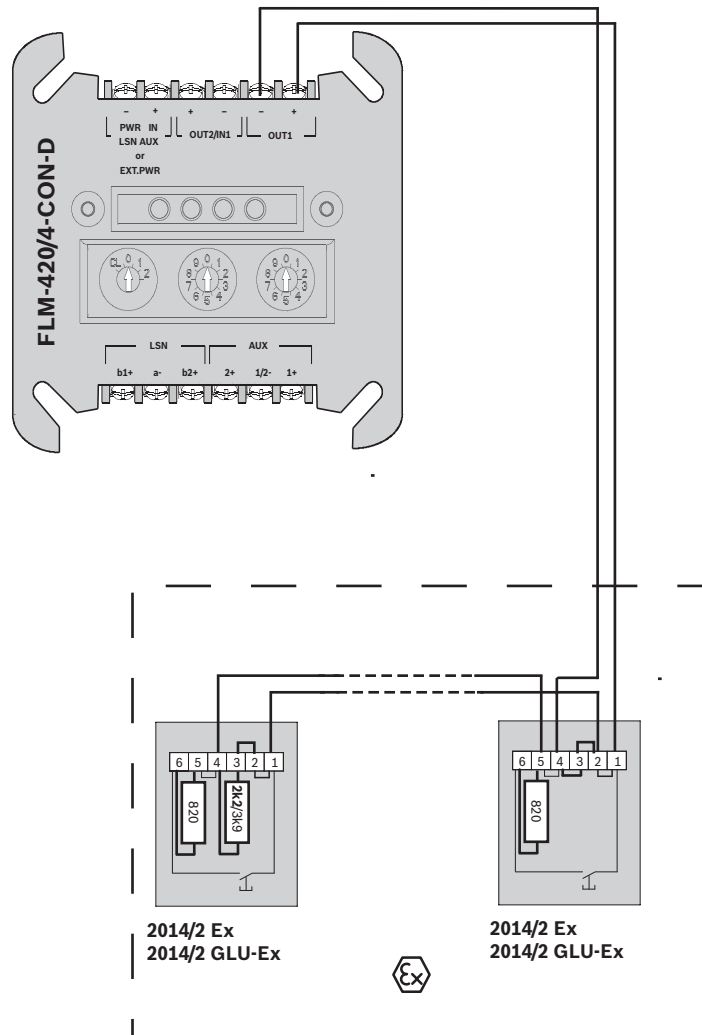
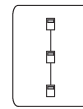


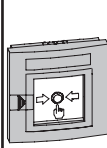
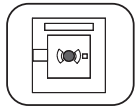
MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



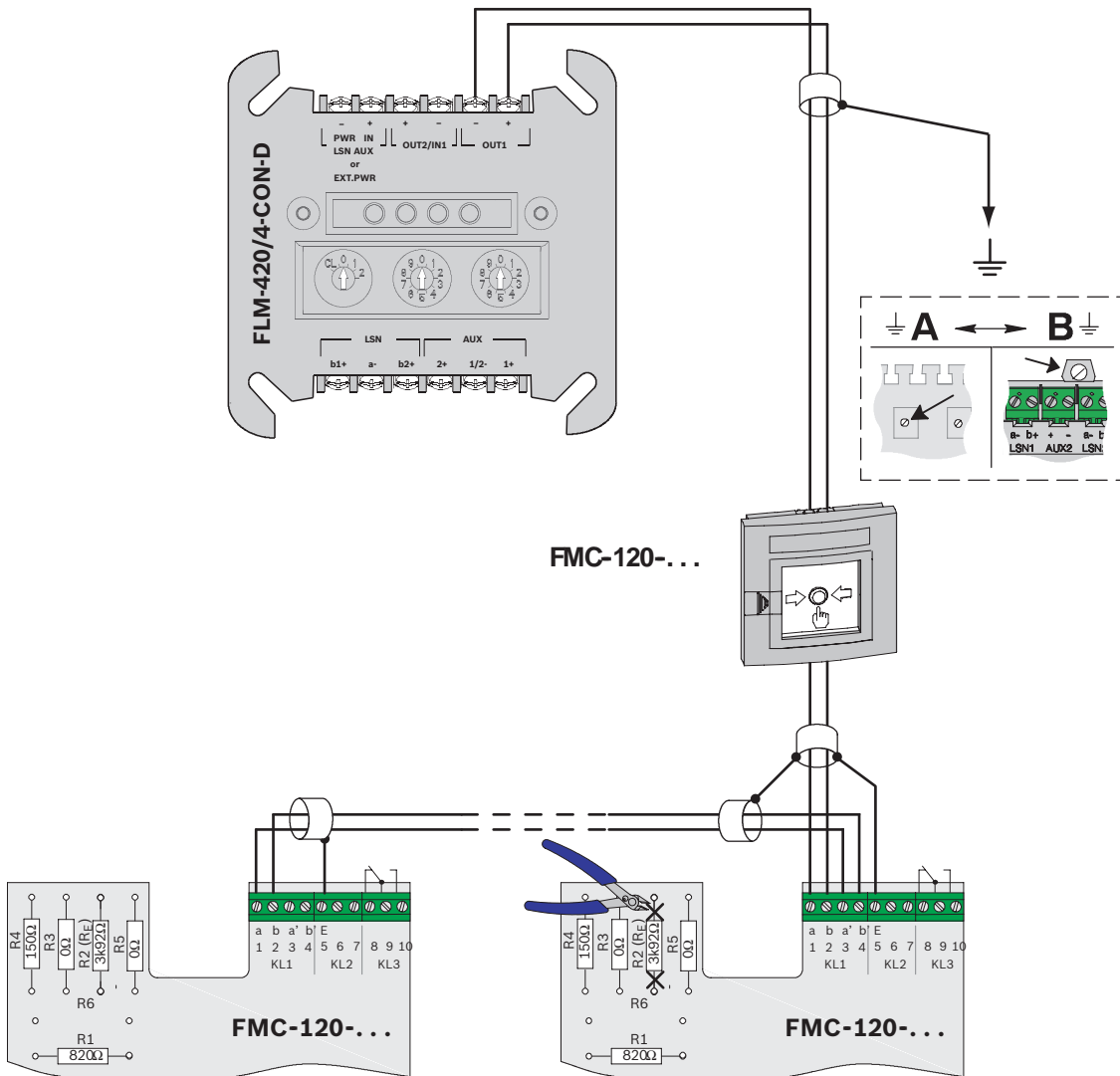
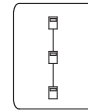


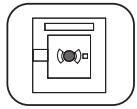
2014/2 Ex
2014/2 GLU-Ex



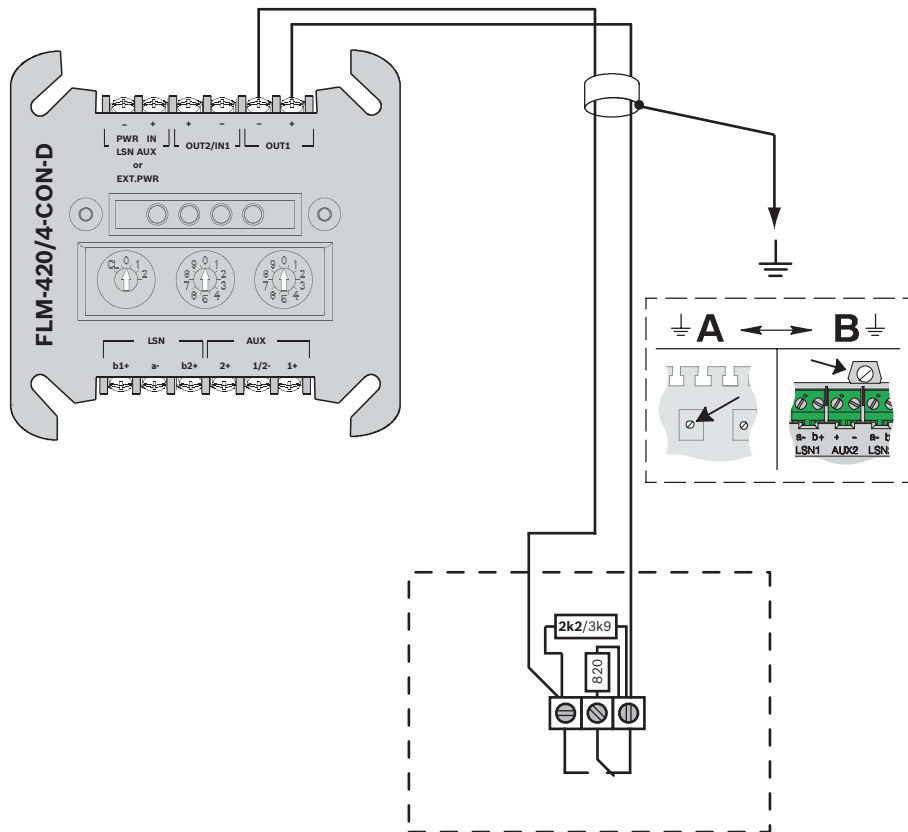
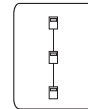


FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B



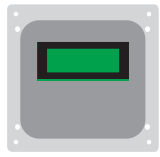


NO



2.5.2

FLM-420-I8R1-S

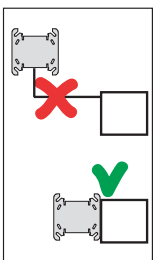
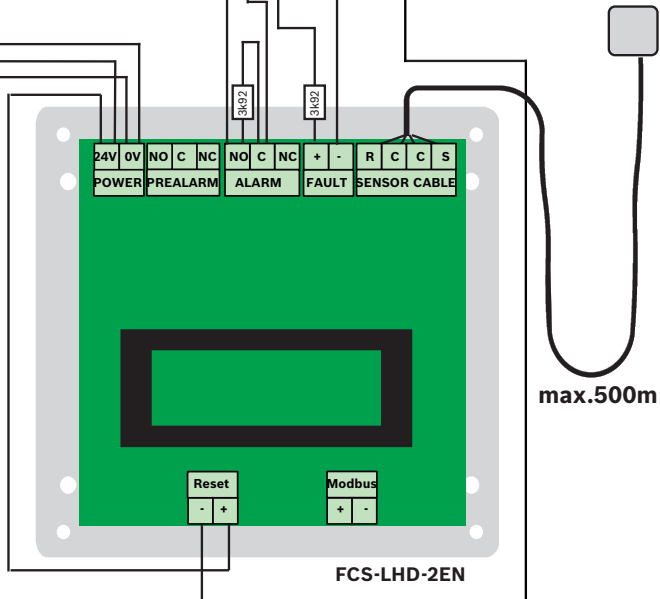
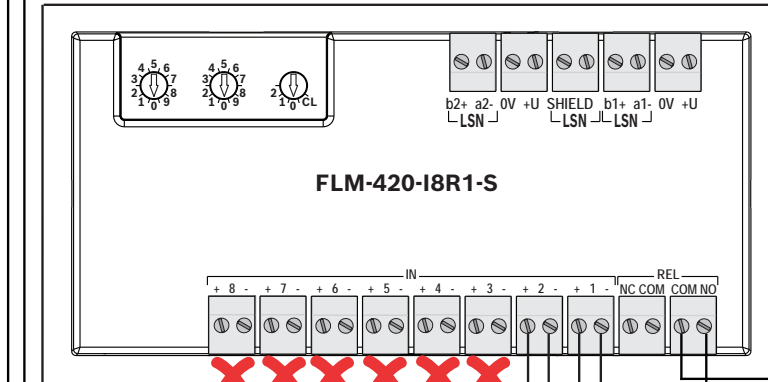


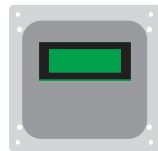
ProReact EN Analogue

FCS-LHD-2EN



FPP-5000
BCM-0000-B





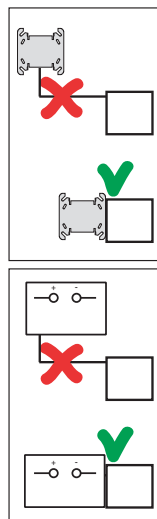
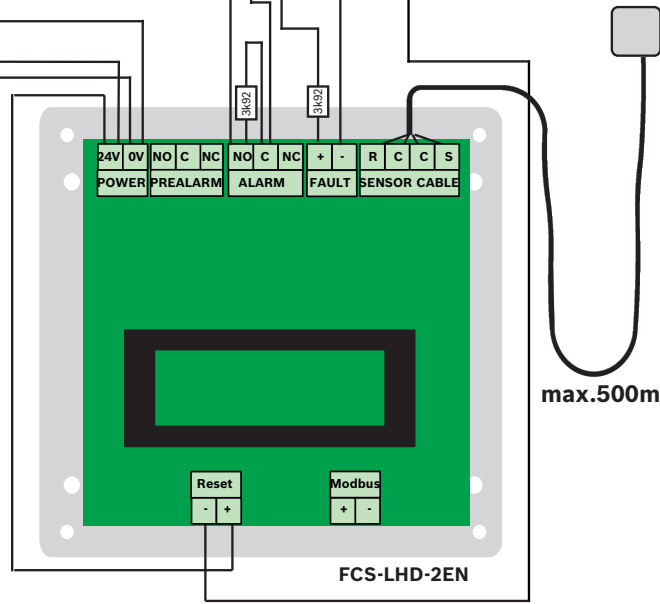
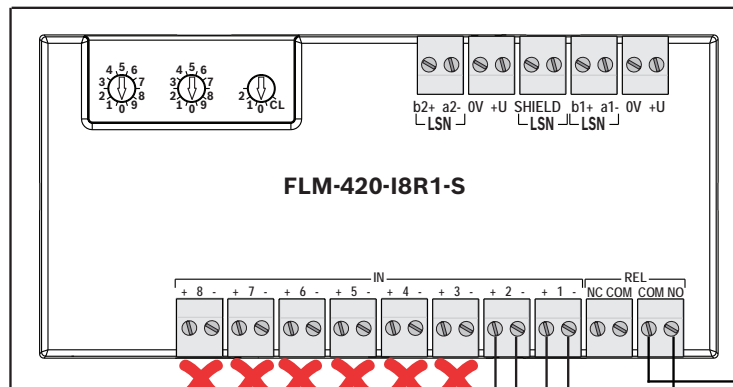
ProReact EN Analogue

FCS-LHD-2EN

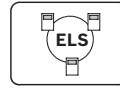


ELS

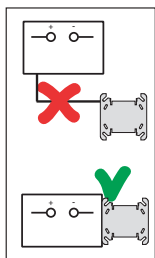
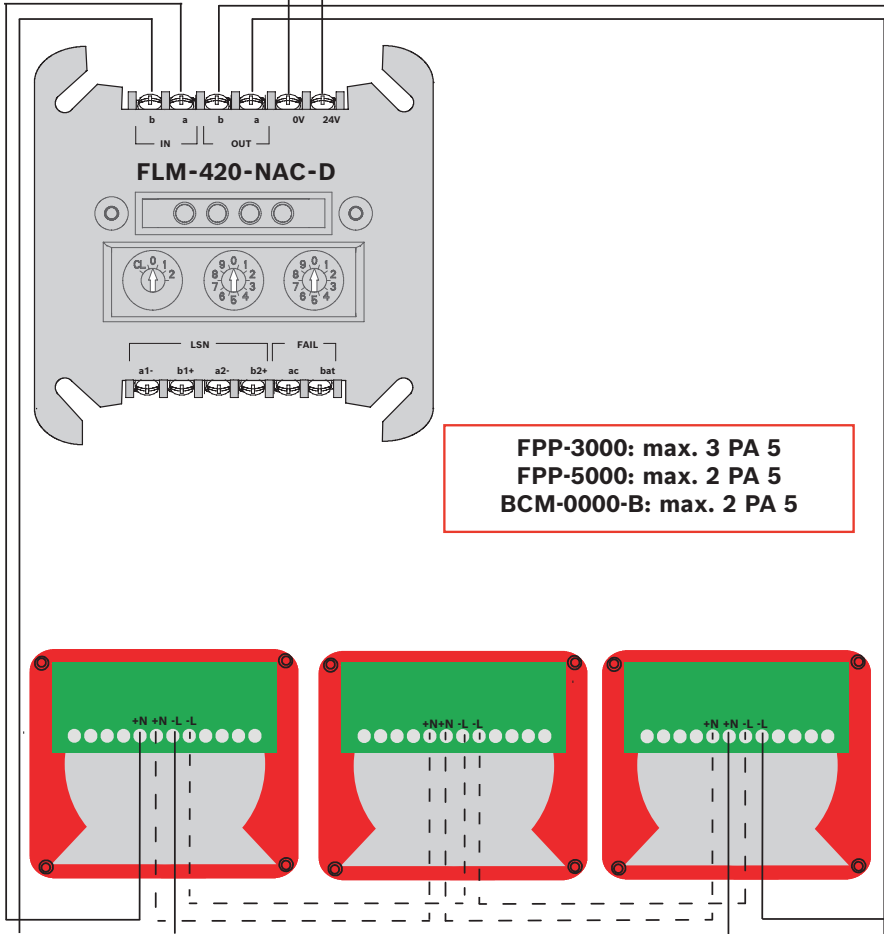
FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B



2.5.3 FLM-420-NAC-D/S

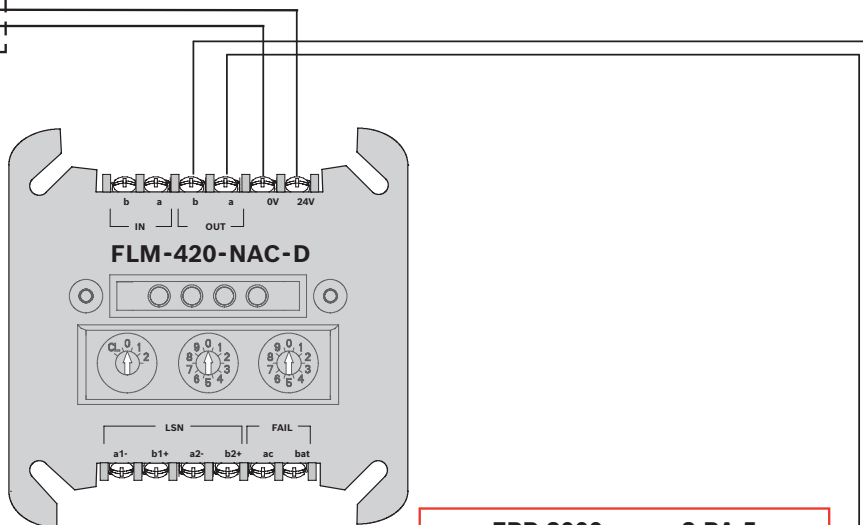


FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B

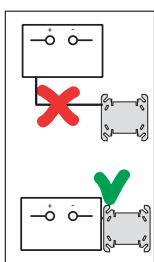
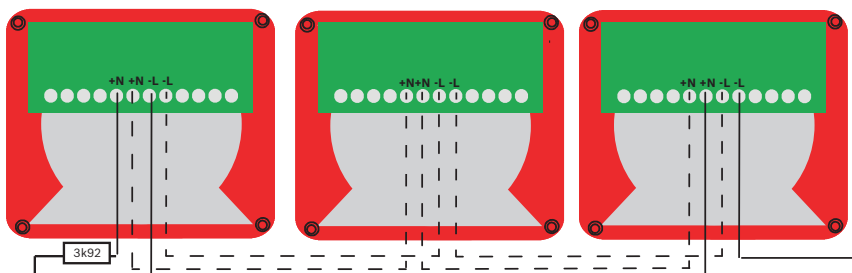


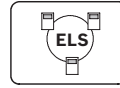


FPP-3000
FPP-5000
BCM-0000-B

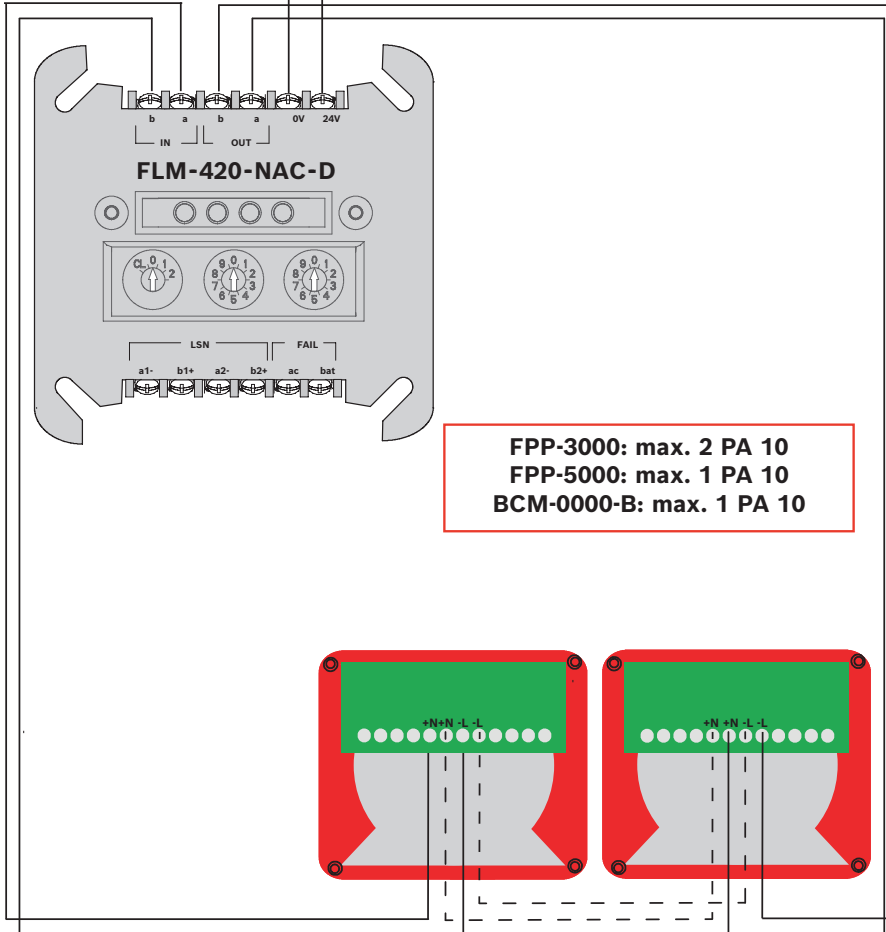


FPP-3000: max. 3 PA 5
FPP-5000: max. 2 PA 5
BCM-0000-B: max. 2 PA 5

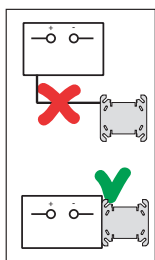




FPP-3000(ZSP135-DR)
 FPP-5000
 BCM-0000-B

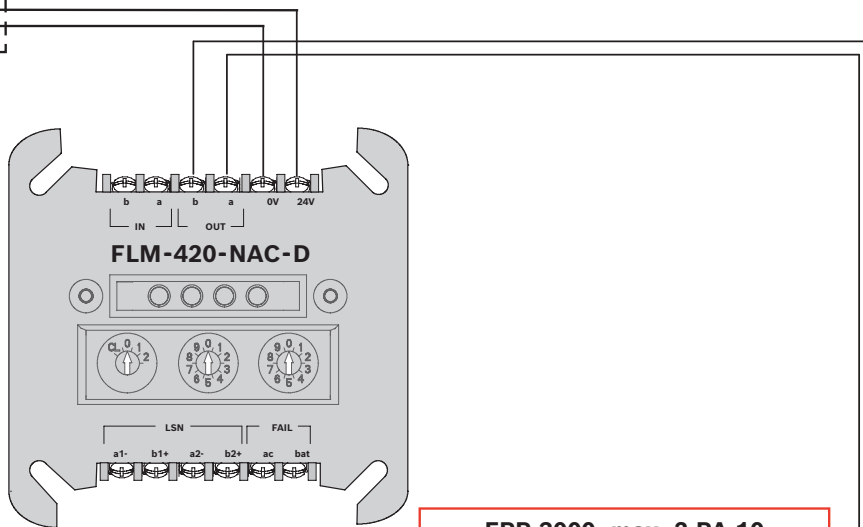


FPP-3000: max. 2 PA 10
FPP-5000: max. 1 PA 10
BCM-0000-B: max. 1 PA 10

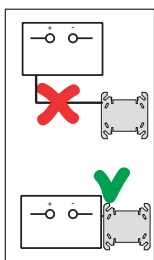
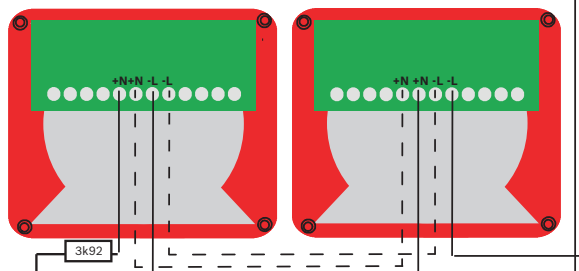


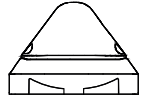


FPP-3000
FPP-5000
BCM-0000-B

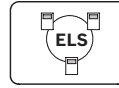


FPP-3000: max. 2 PA 10
FPP-5000: max. 1 PA 10
BCM-0000-B: max. 1 PA 10

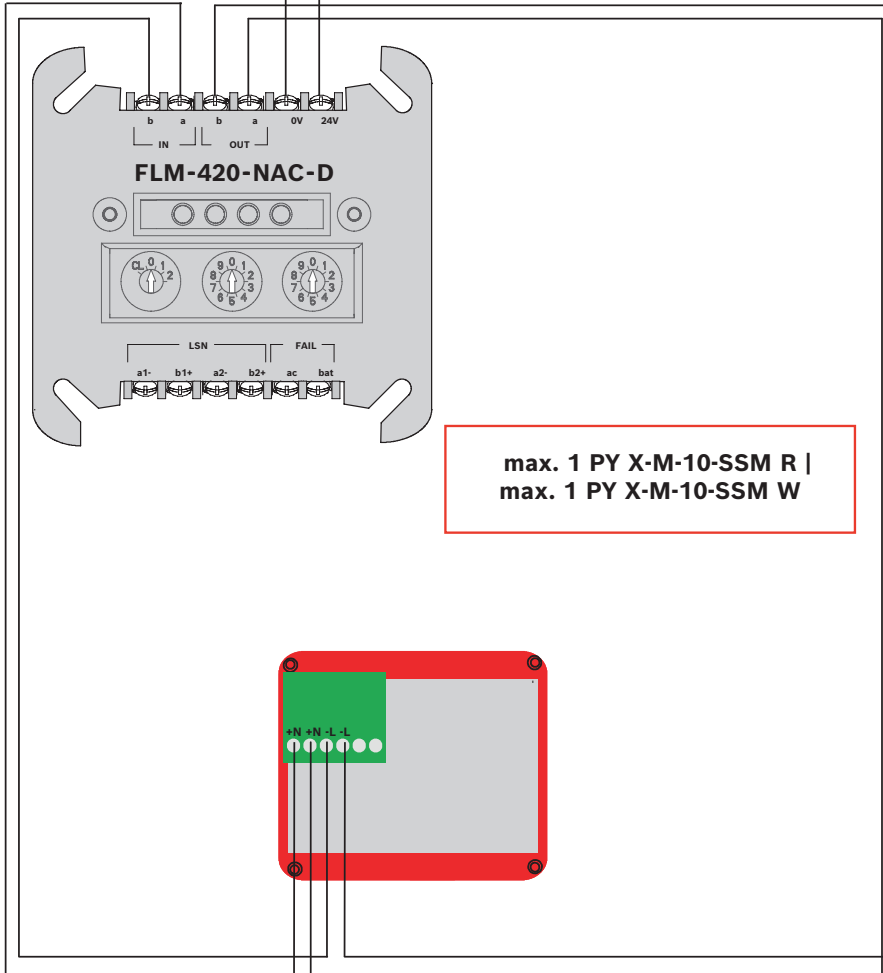




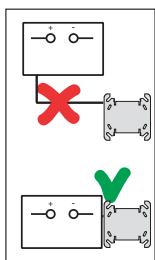
PY X-M-10-SSM R
PY X-M-10-SSM W

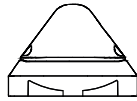


FPP-3000(ZSP-135-DR)
FPP-5000
BCM-0000-B



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

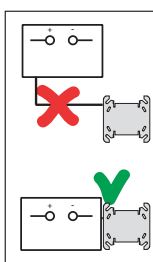
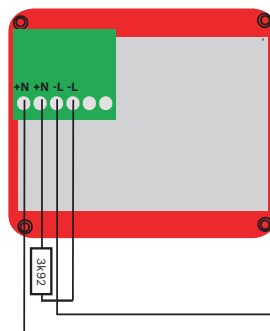
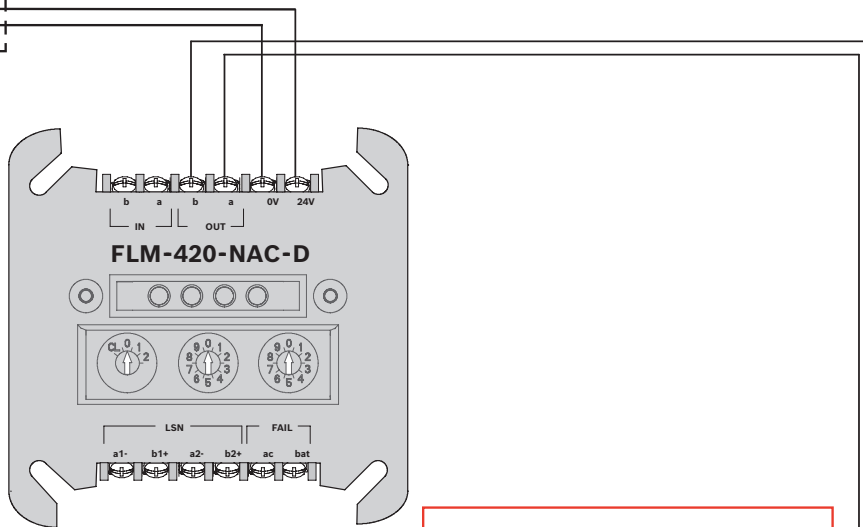




PY X-M-10-SSM R
PY X-M-10-SSM W

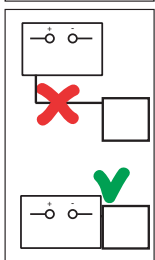
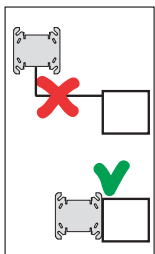
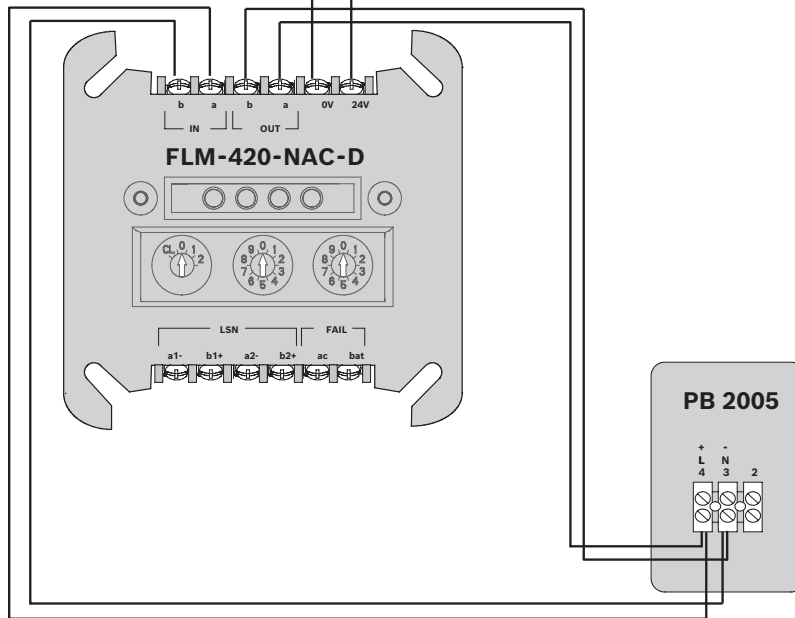
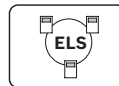


FPP-3000
 FPP-5000
 BCM-0000-B



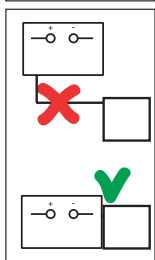
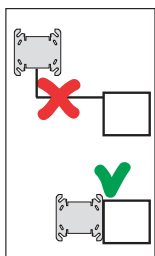
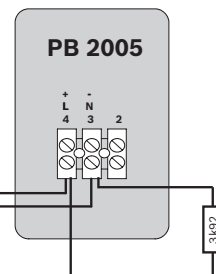
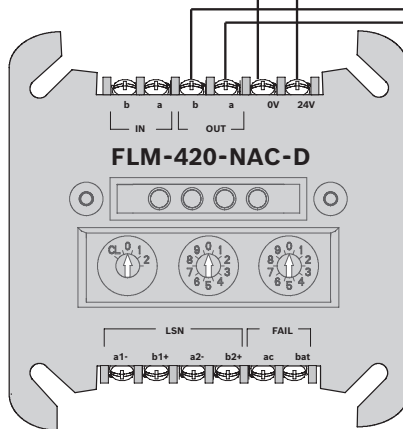


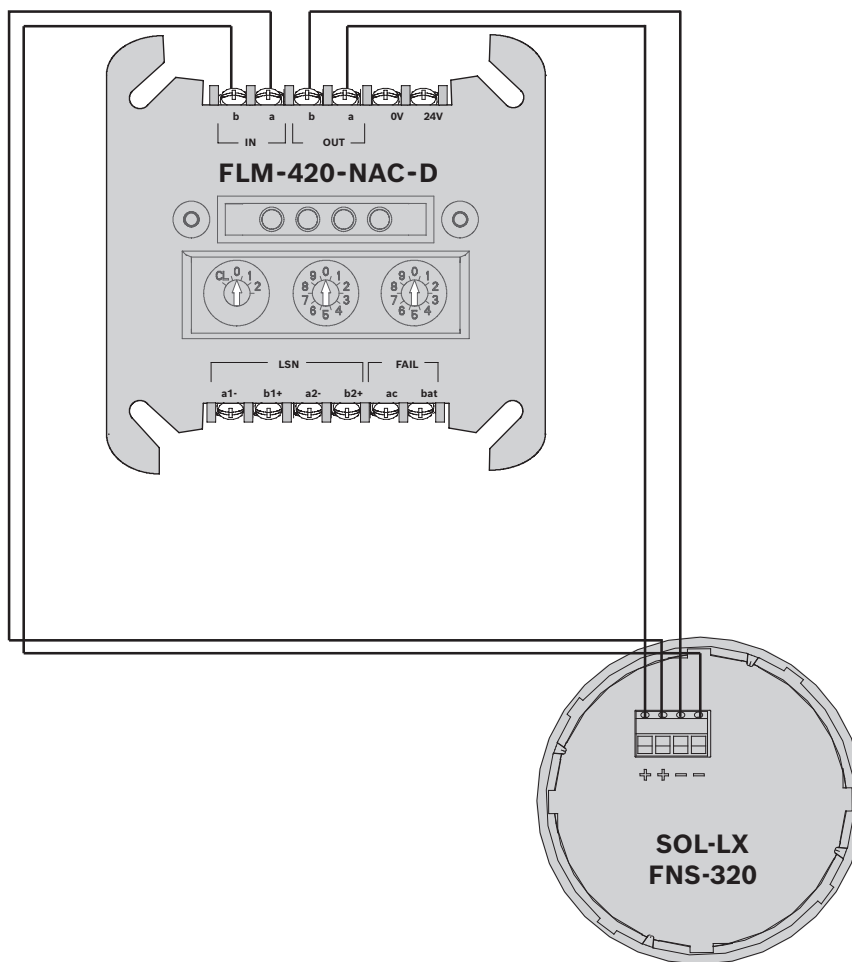
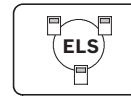
PB 2005

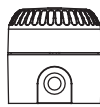




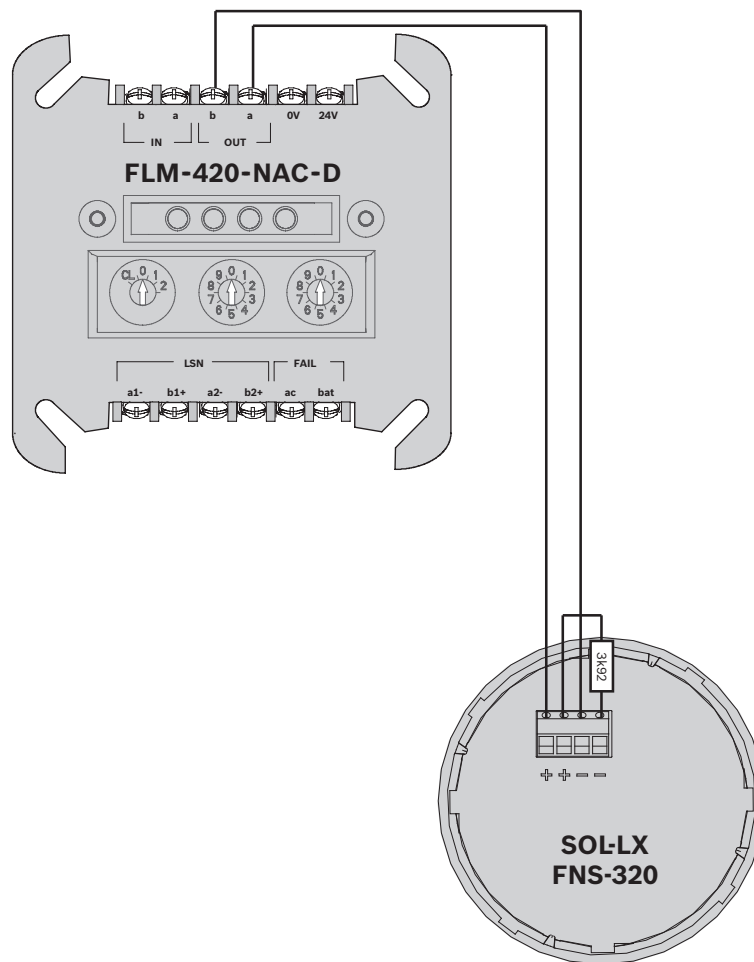
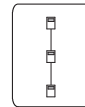
PB 2005

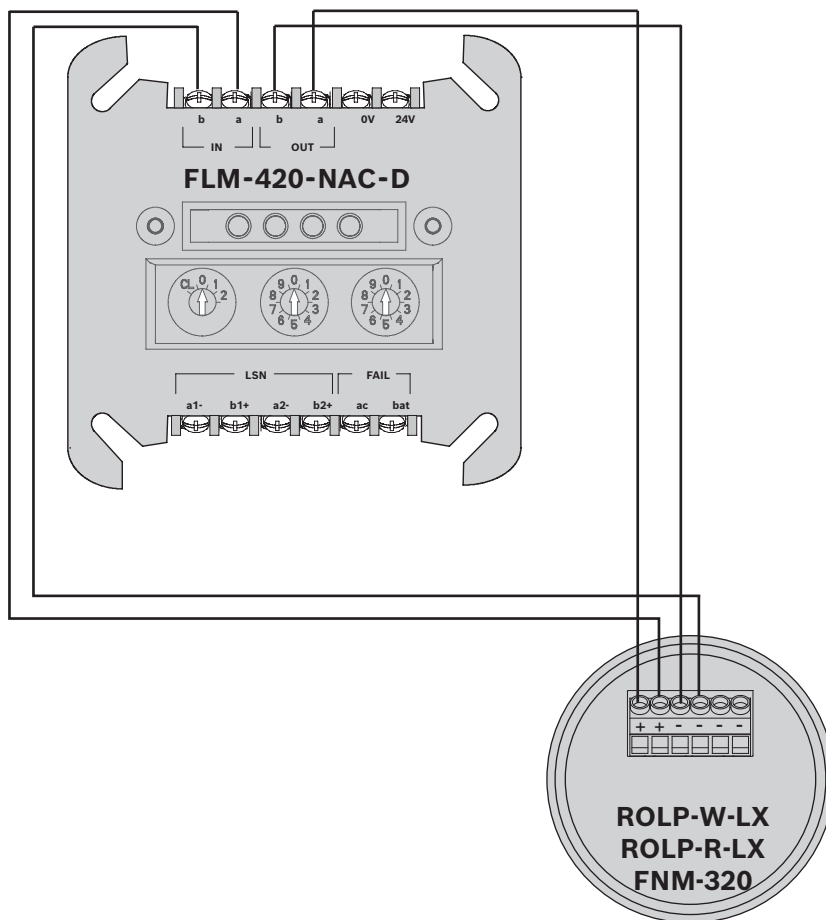
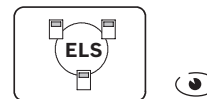


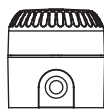




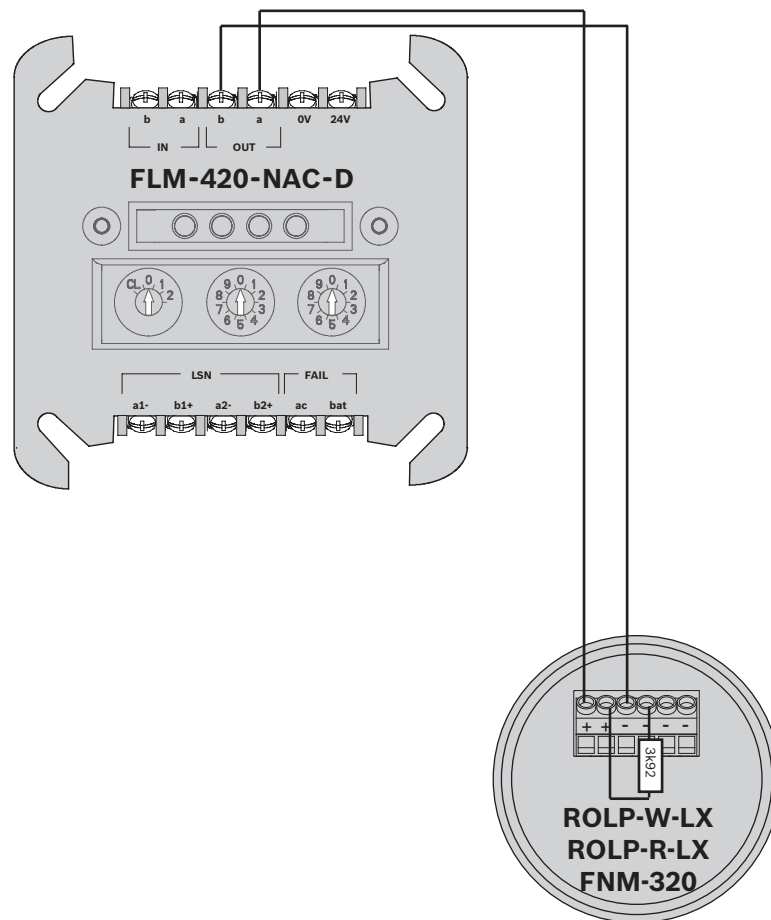
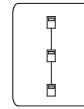
**SOL-LX
FNS-320**



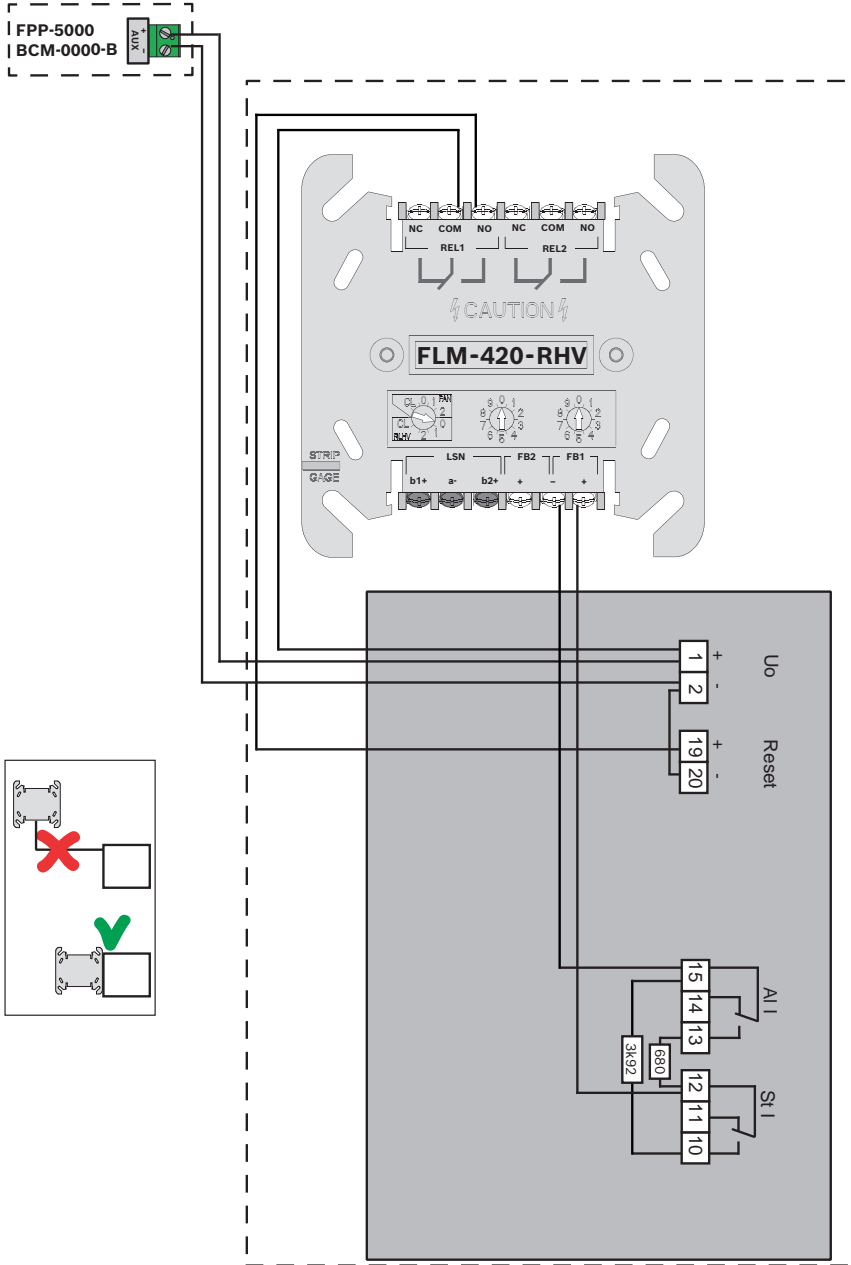




ROLP-W-LX
ROLP-R-LX
FNM-320

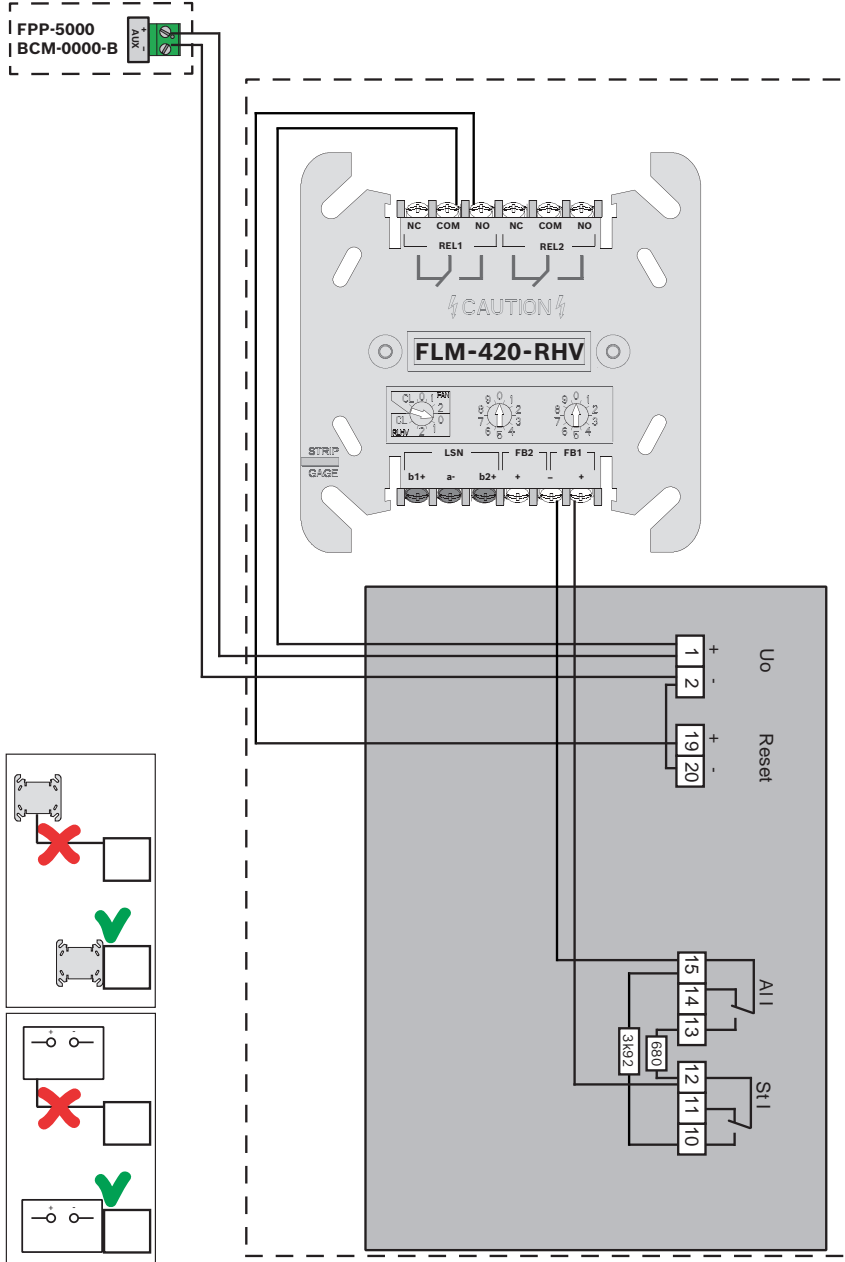


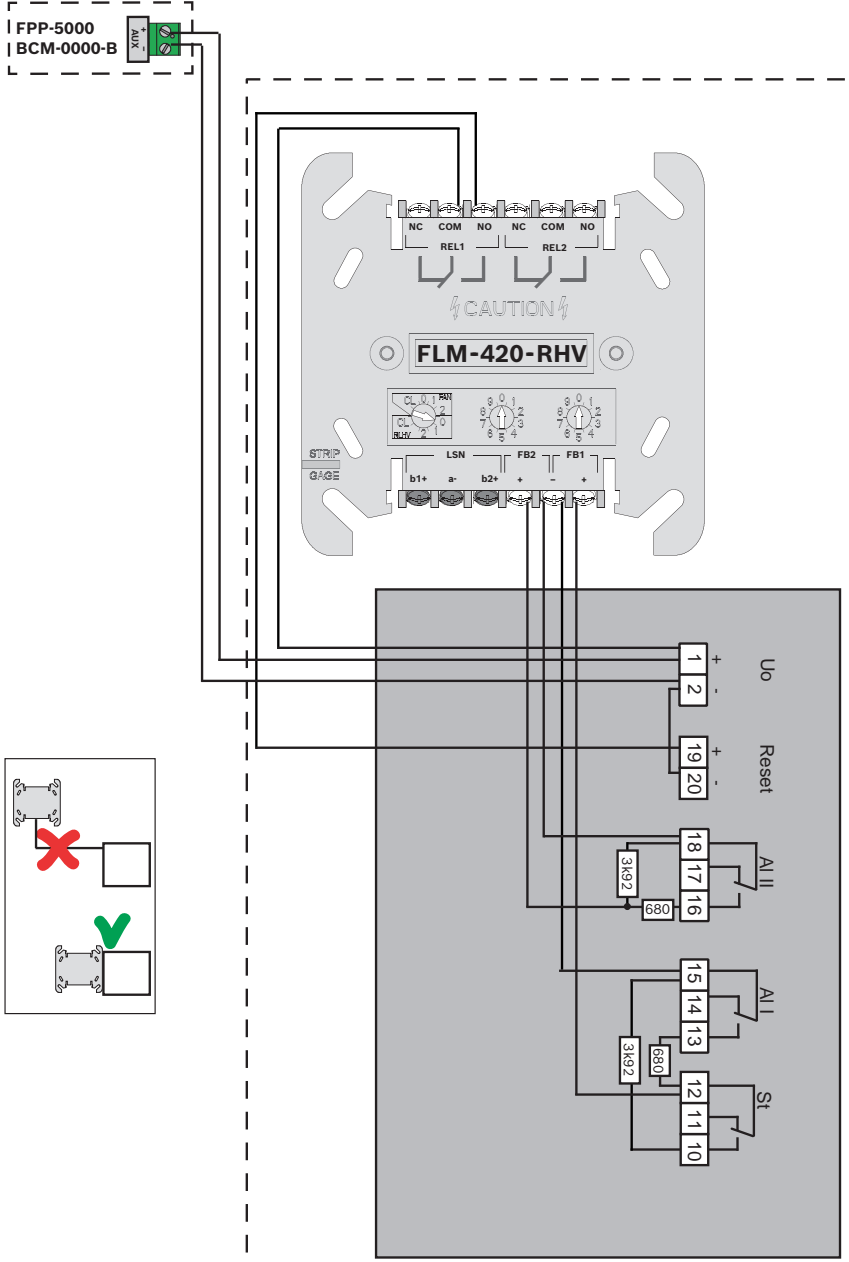
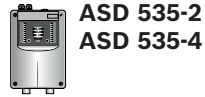
2.5.4 FLM-420-RHV





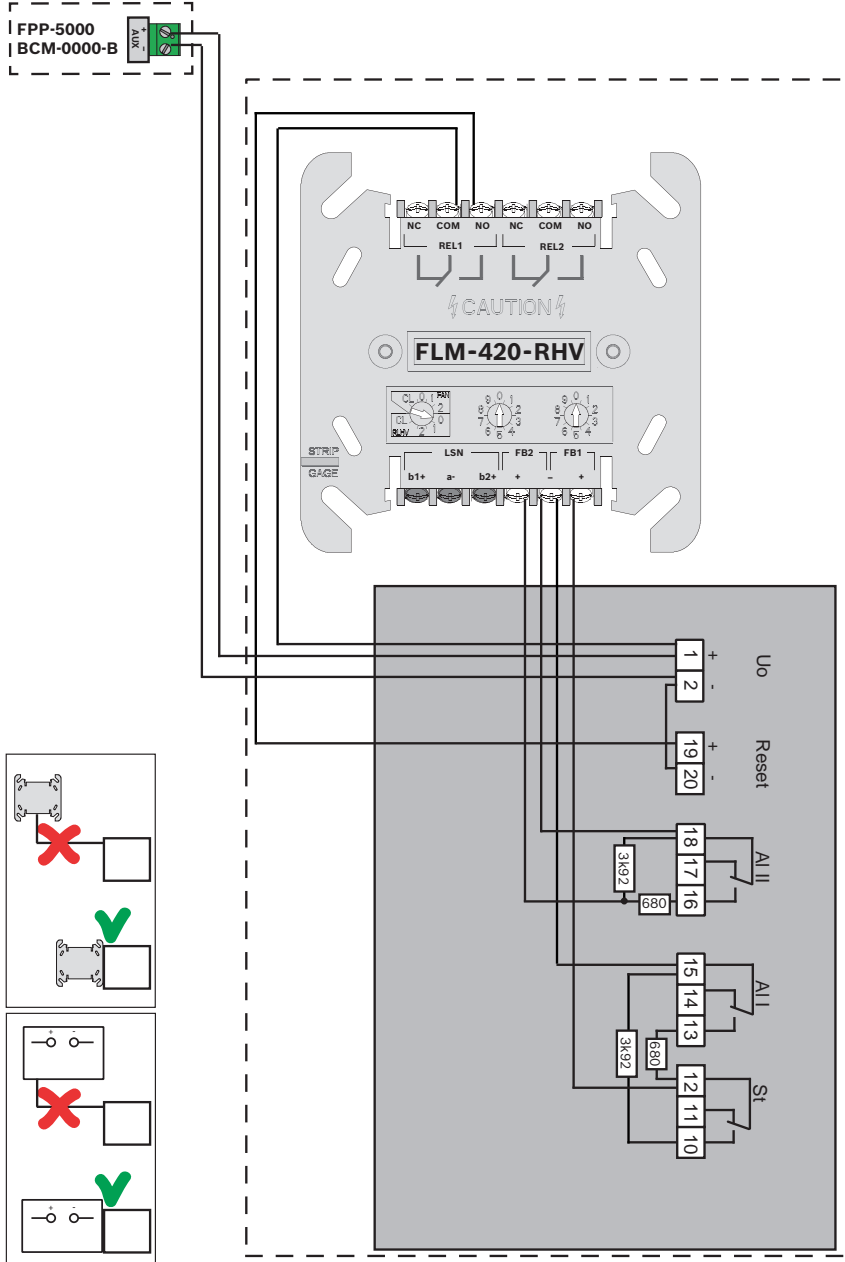
ELS

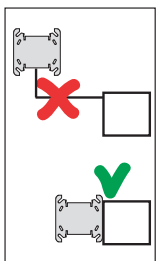
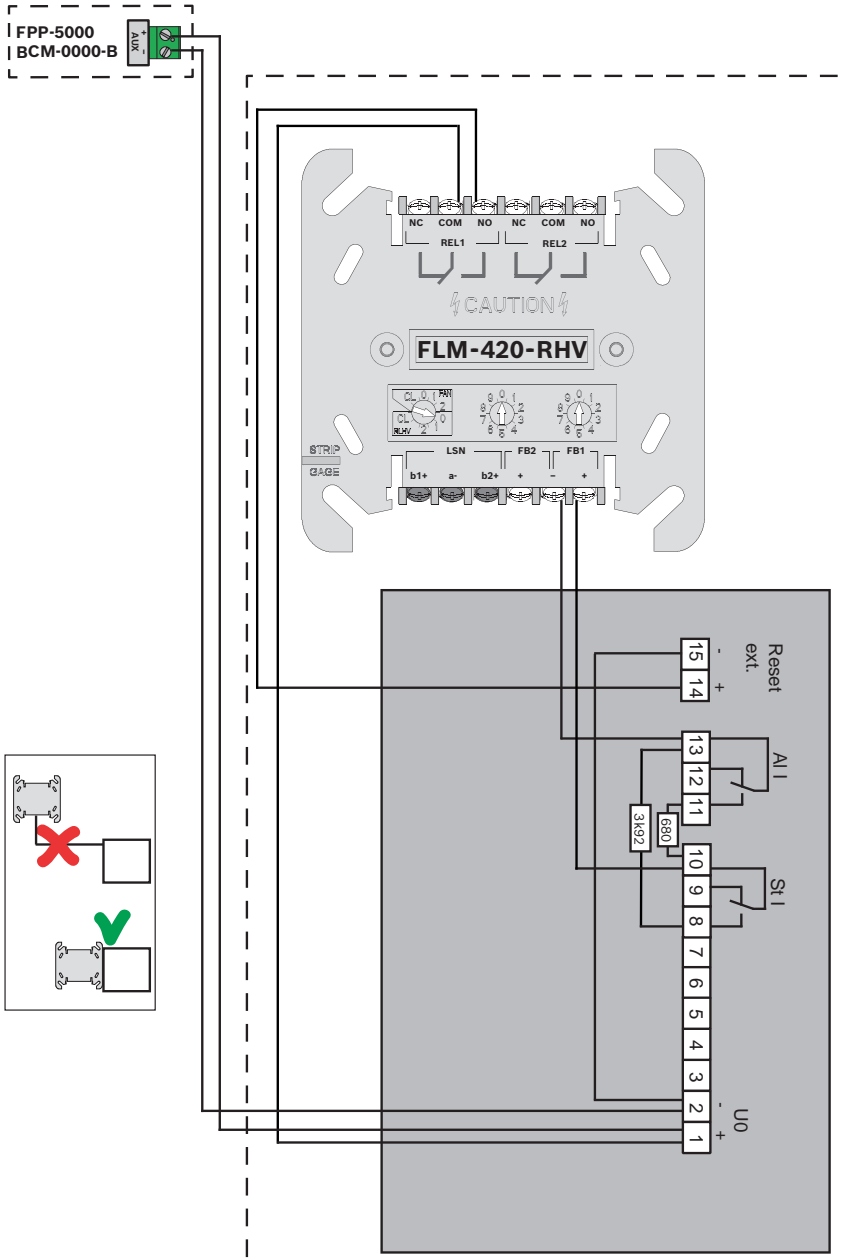






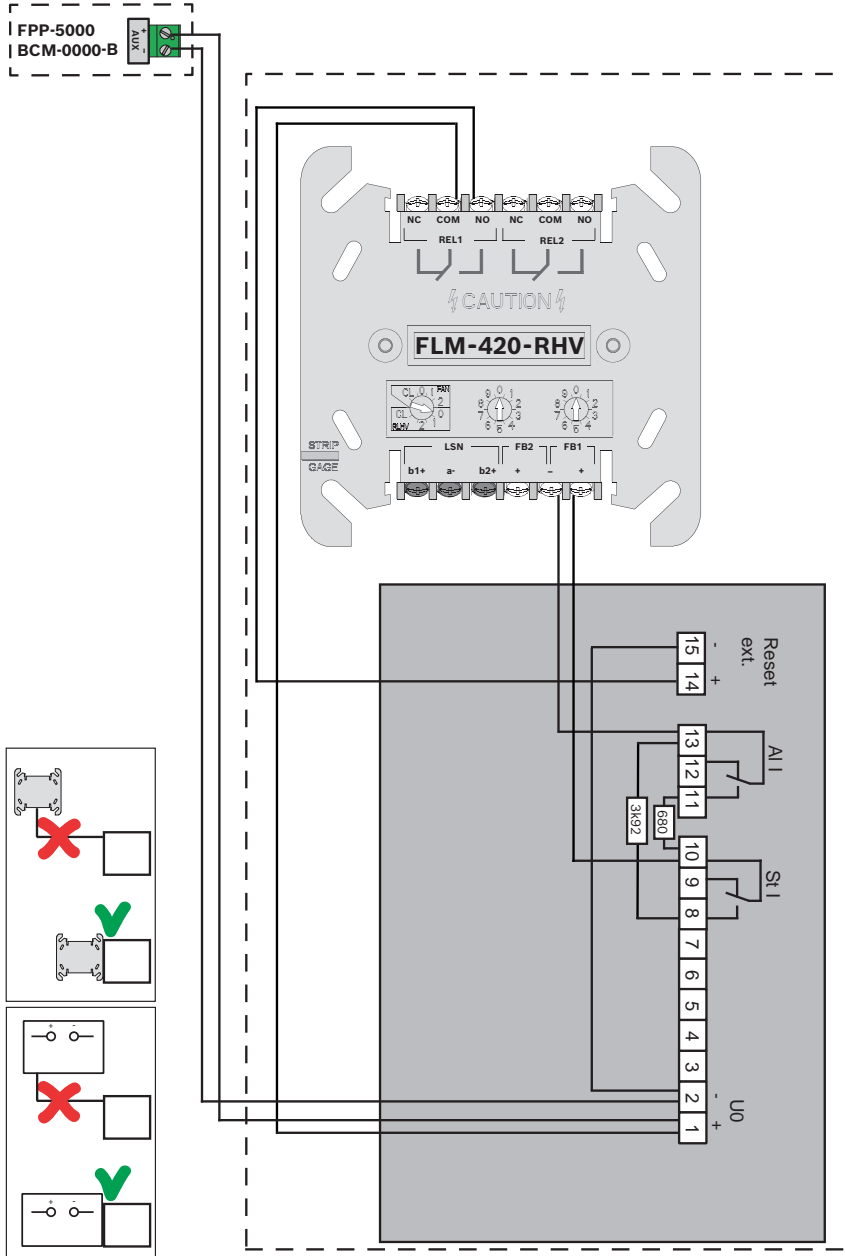
ELS





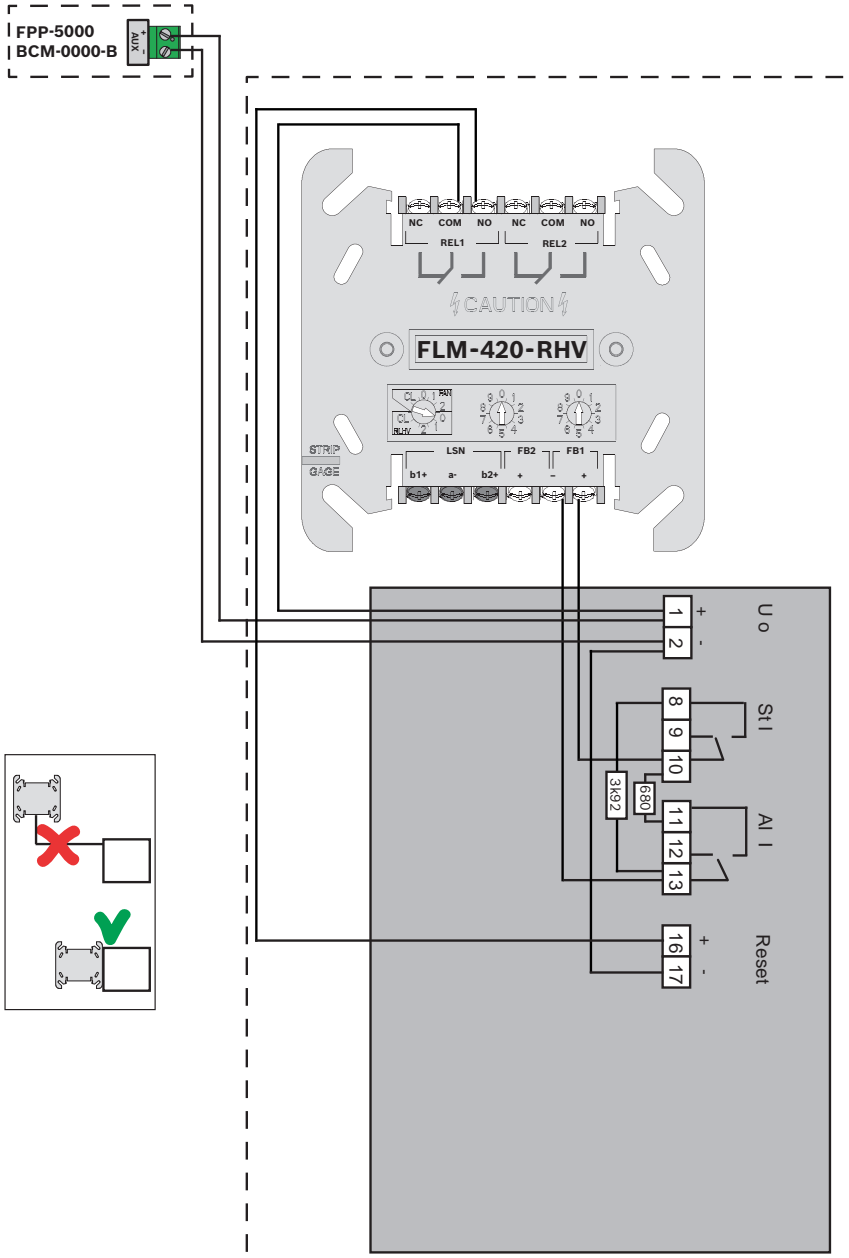


ELS





ADW 535-1

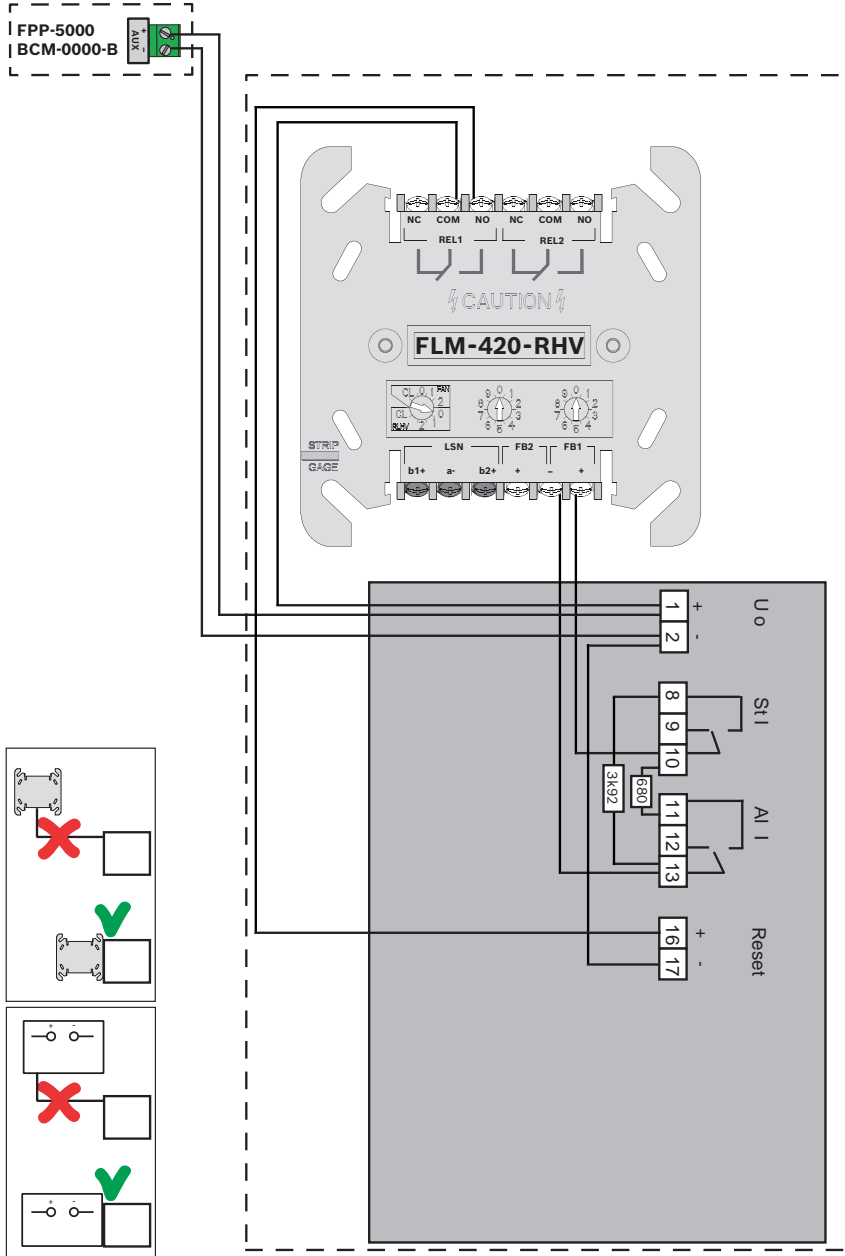




ADW 535-1

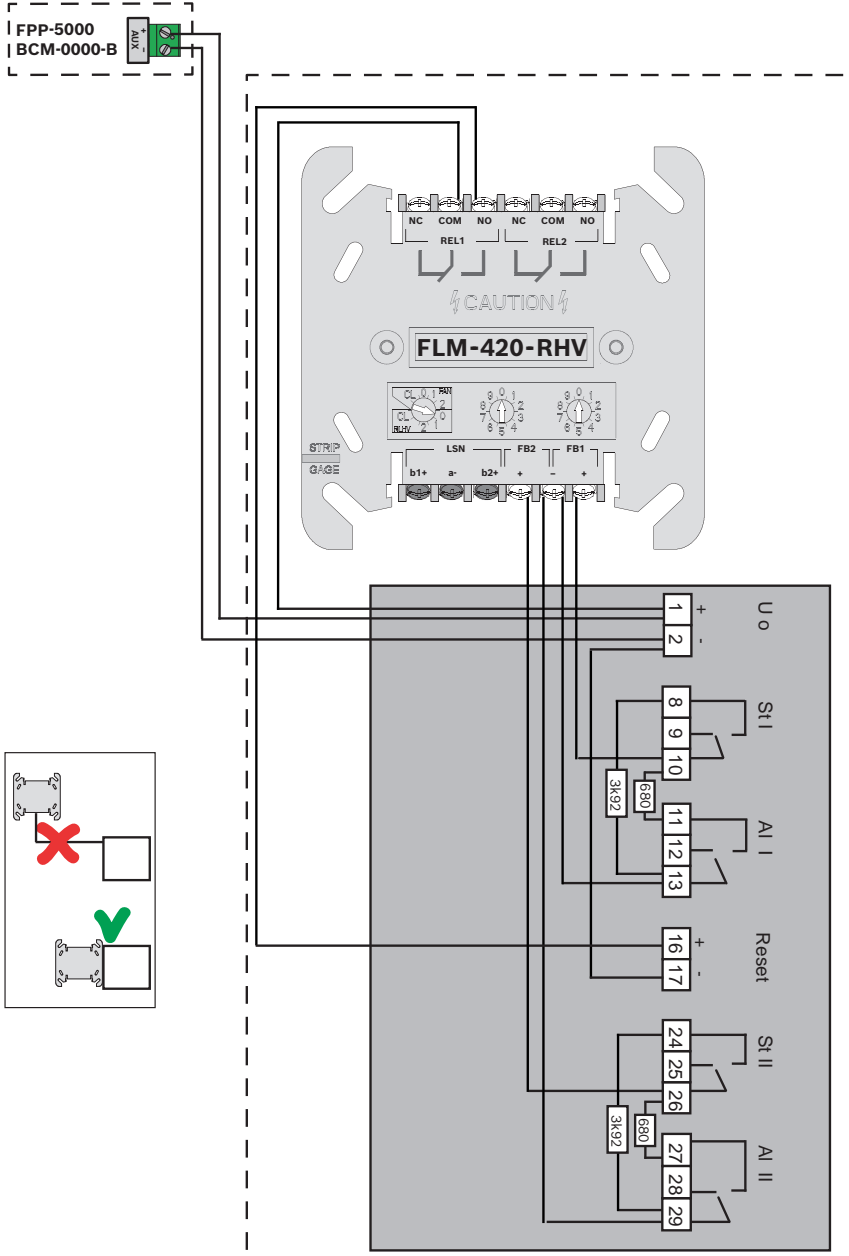


ELS





ADW 535-2

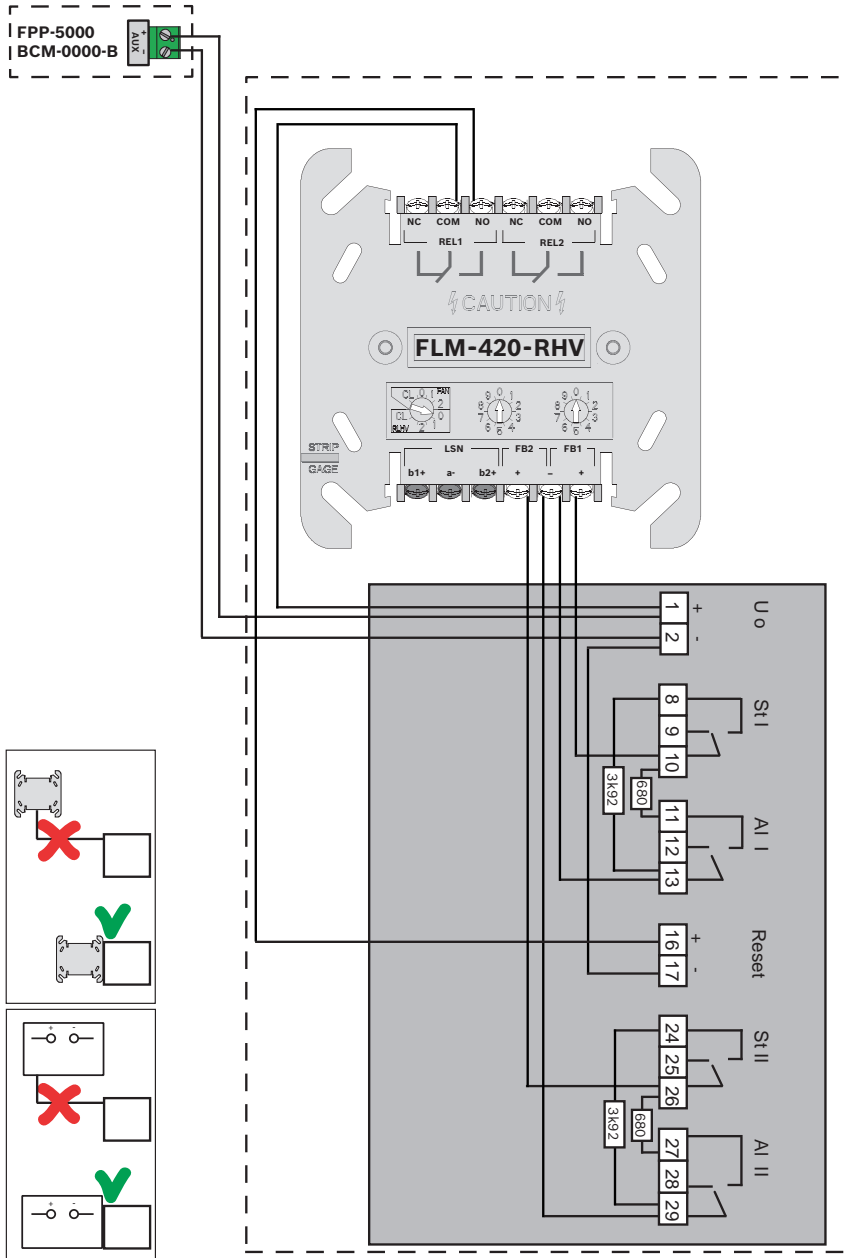




ADW 535-2

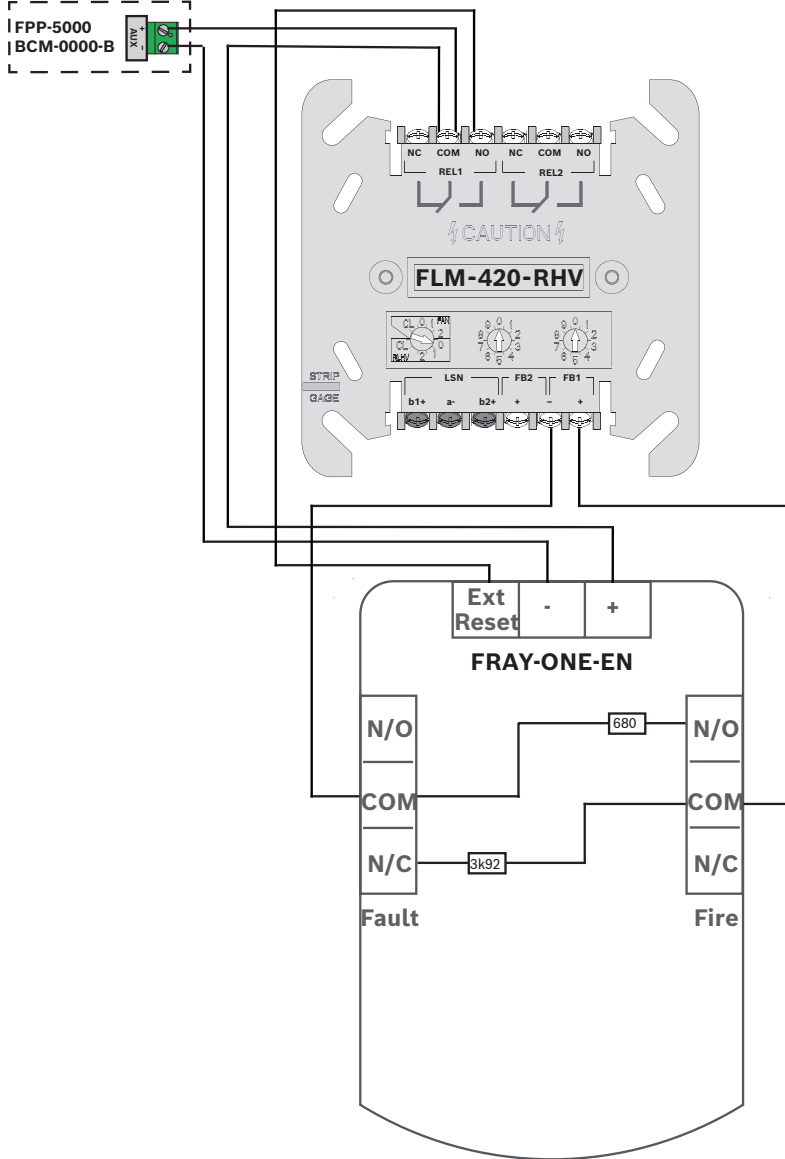


ELS





Fireray One



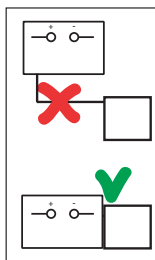
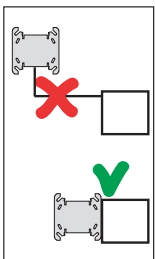
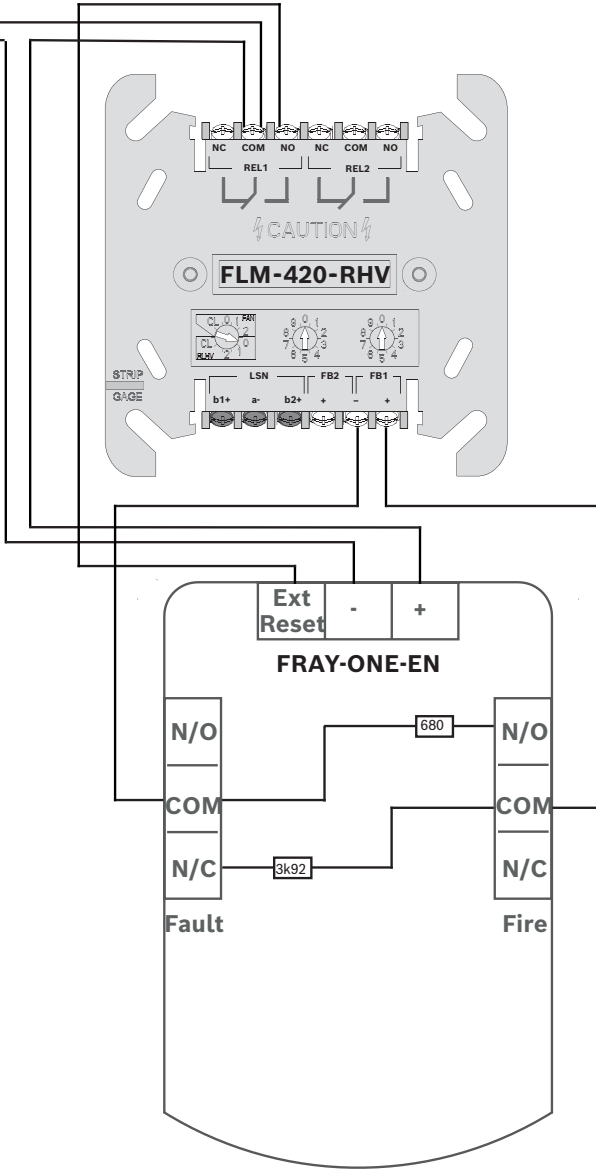


Fireray One



ELS

FPP-5000
BCM-0000-B

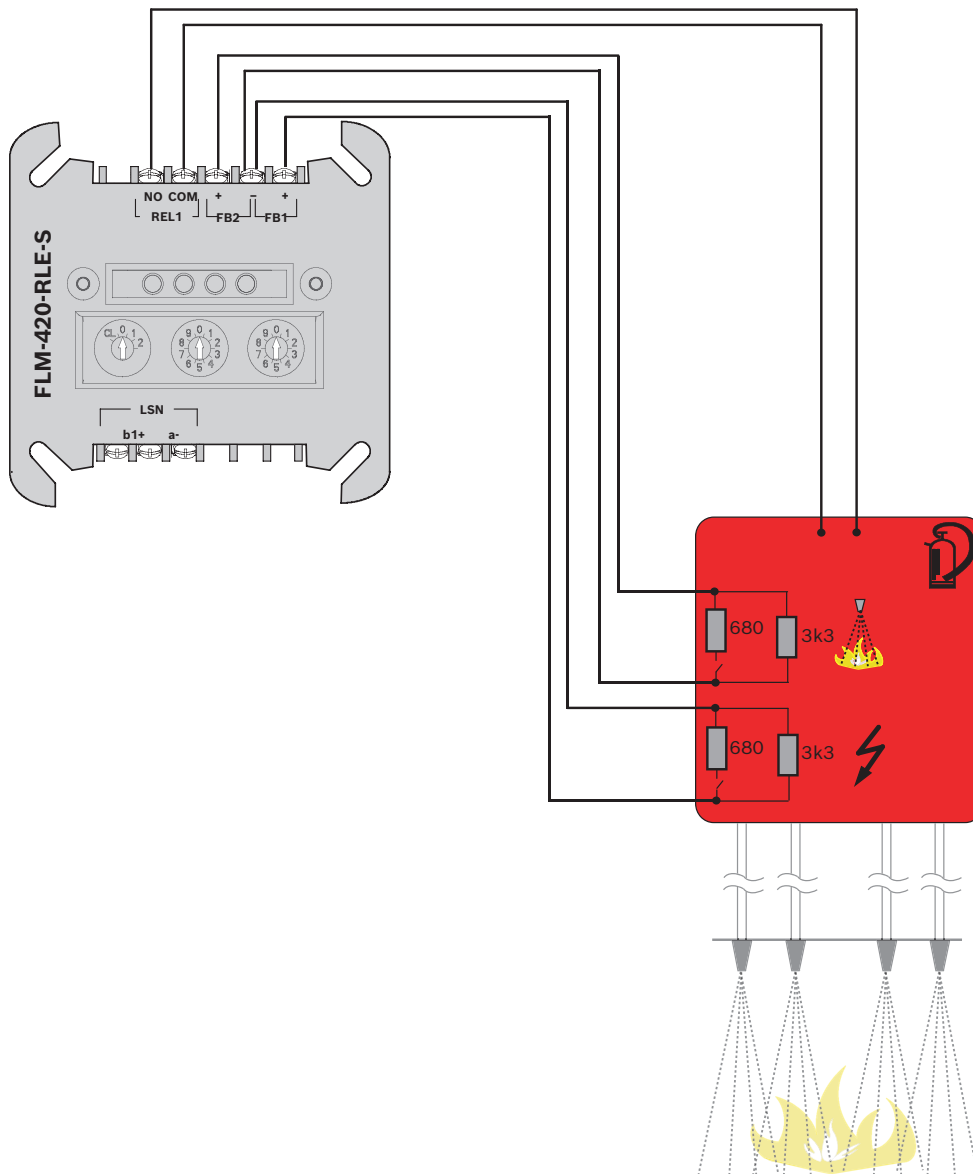


2.5.5

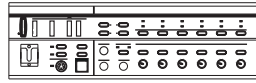
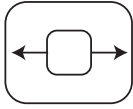
FLM-420-RLE-S



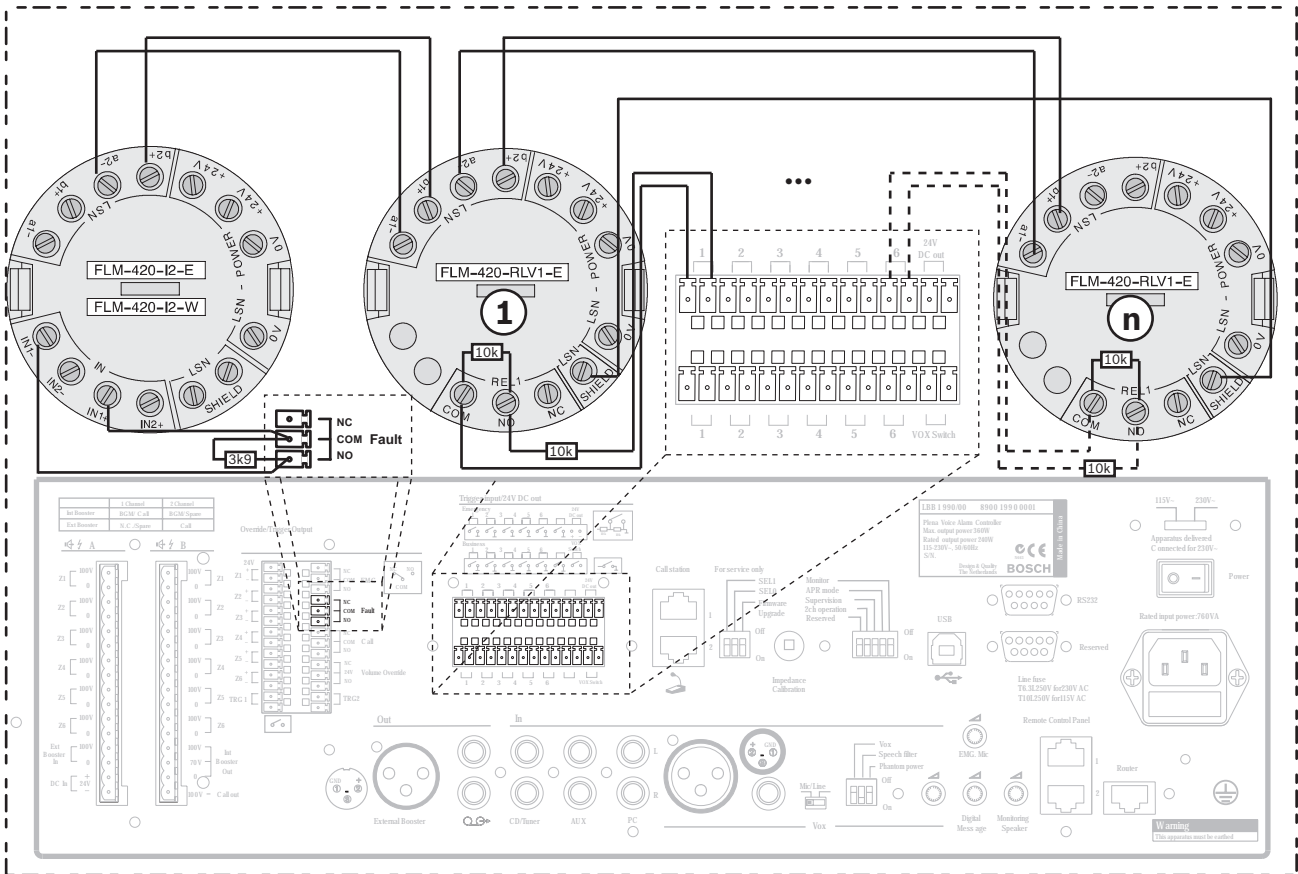
VdS 2496



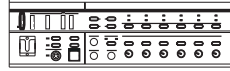
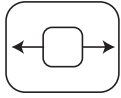
2.5.6 FLM-420-RLV1-E



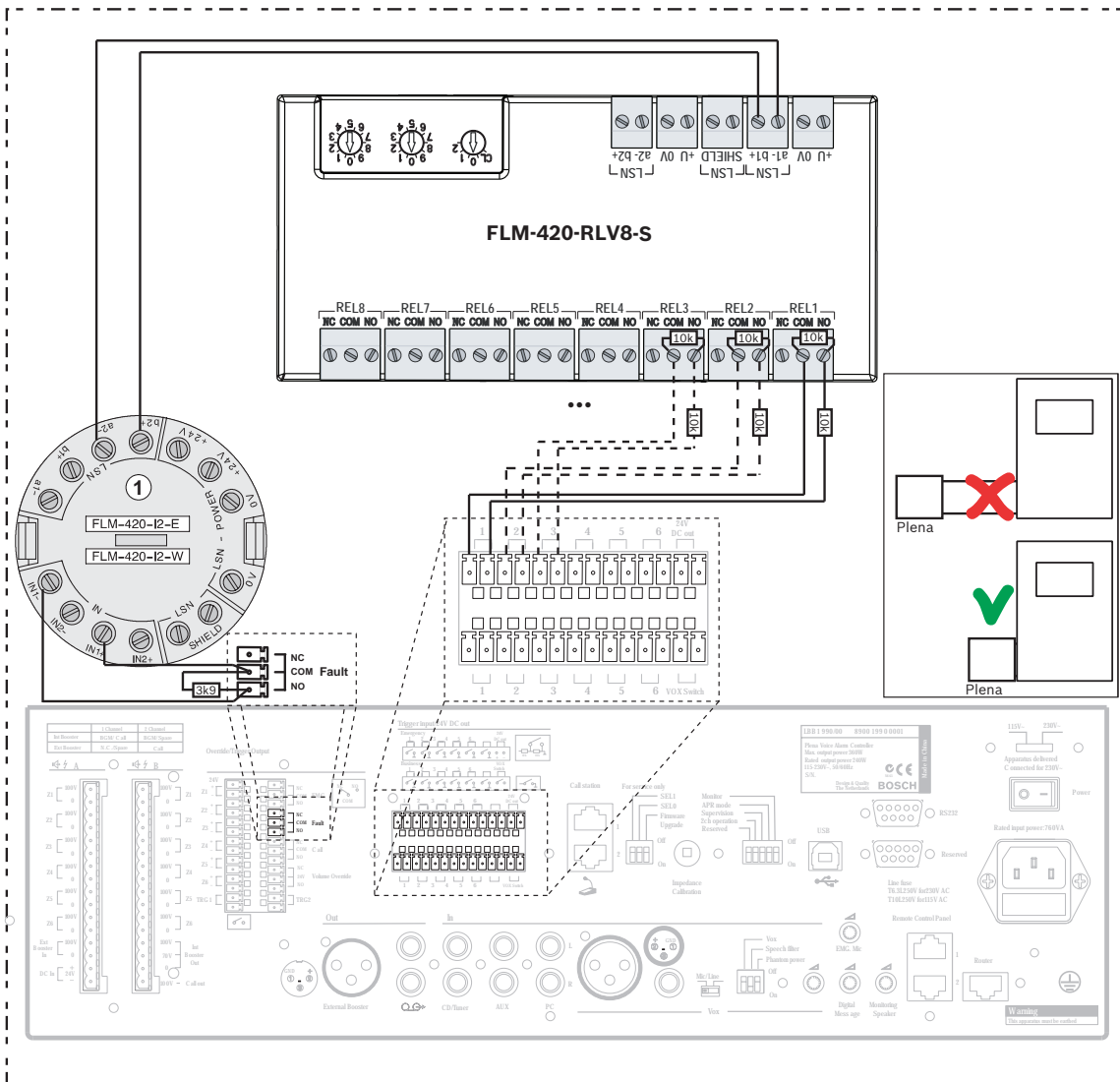
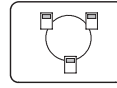
Plena



2.5.7 FLM-420-RLV8-S



Plena



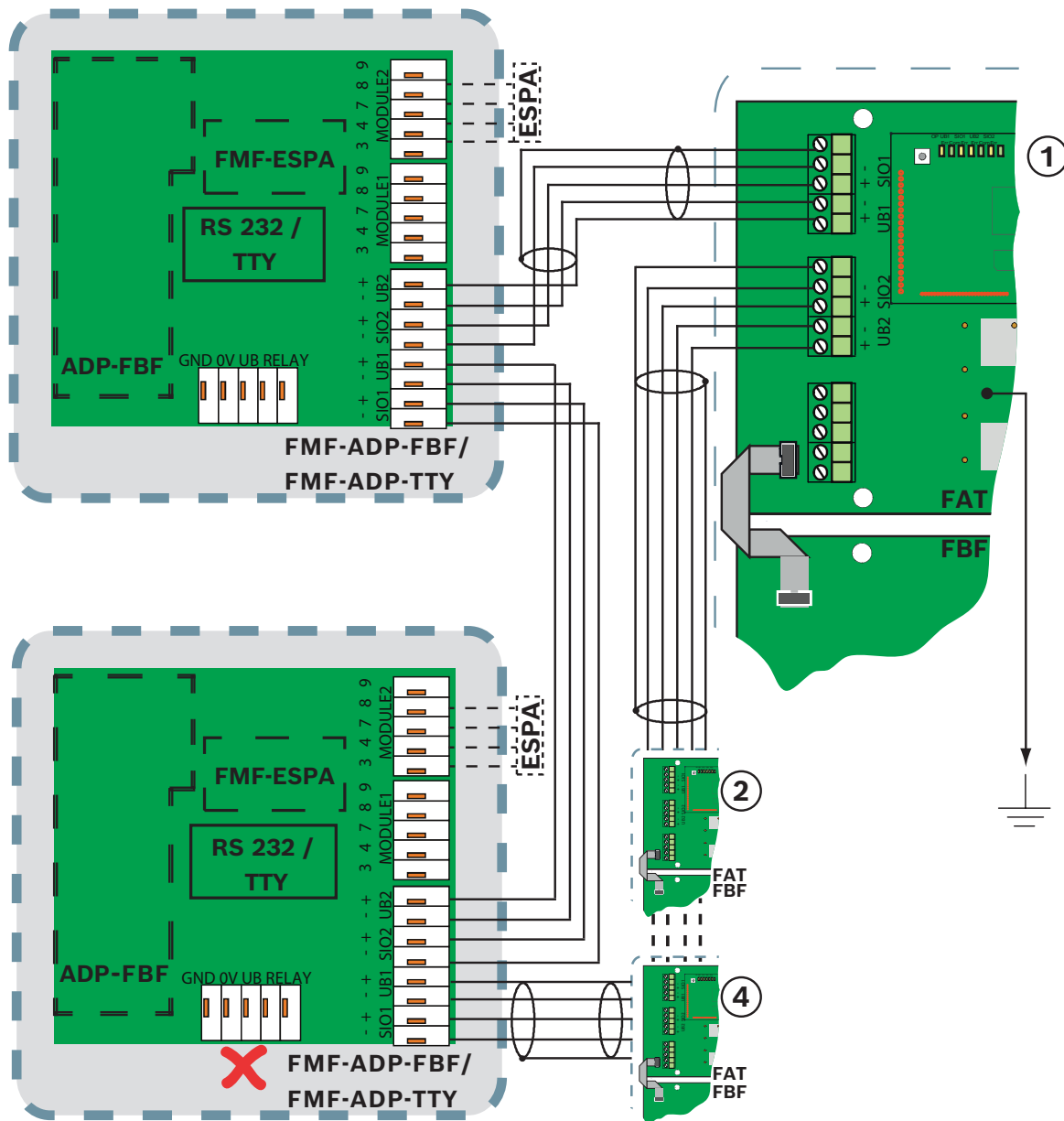
2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS



2.6

EOL



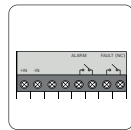
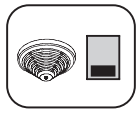
CZM 0004 A, pagina 189

LSN 0300 A, pagina 201

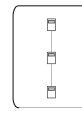
FLM-420/4-CON-S/D, pagina 246

2.6.1

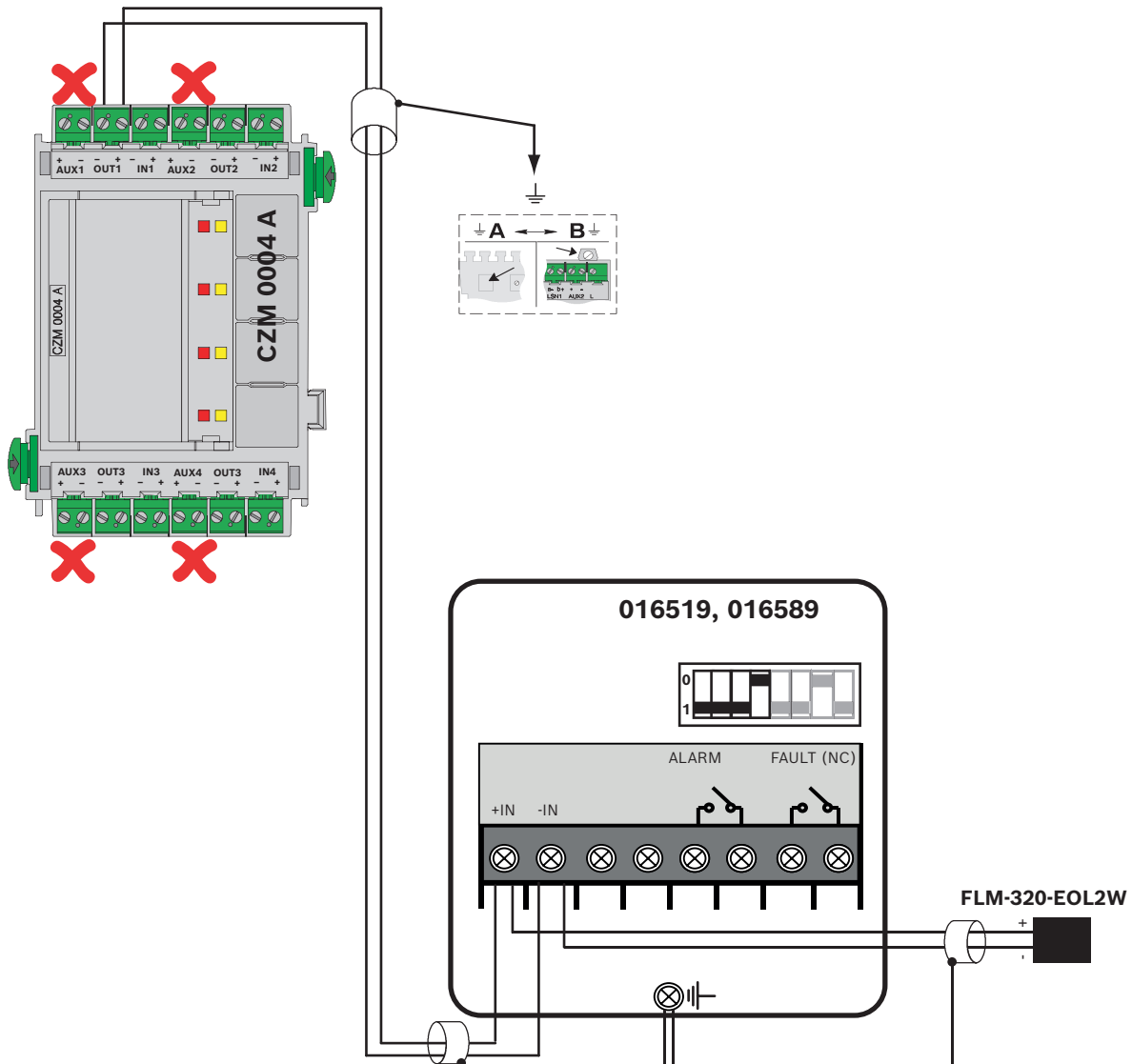
CZM 0004 A

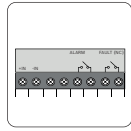


016519, 016589
IR3 Flame Detector

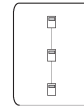


ELS

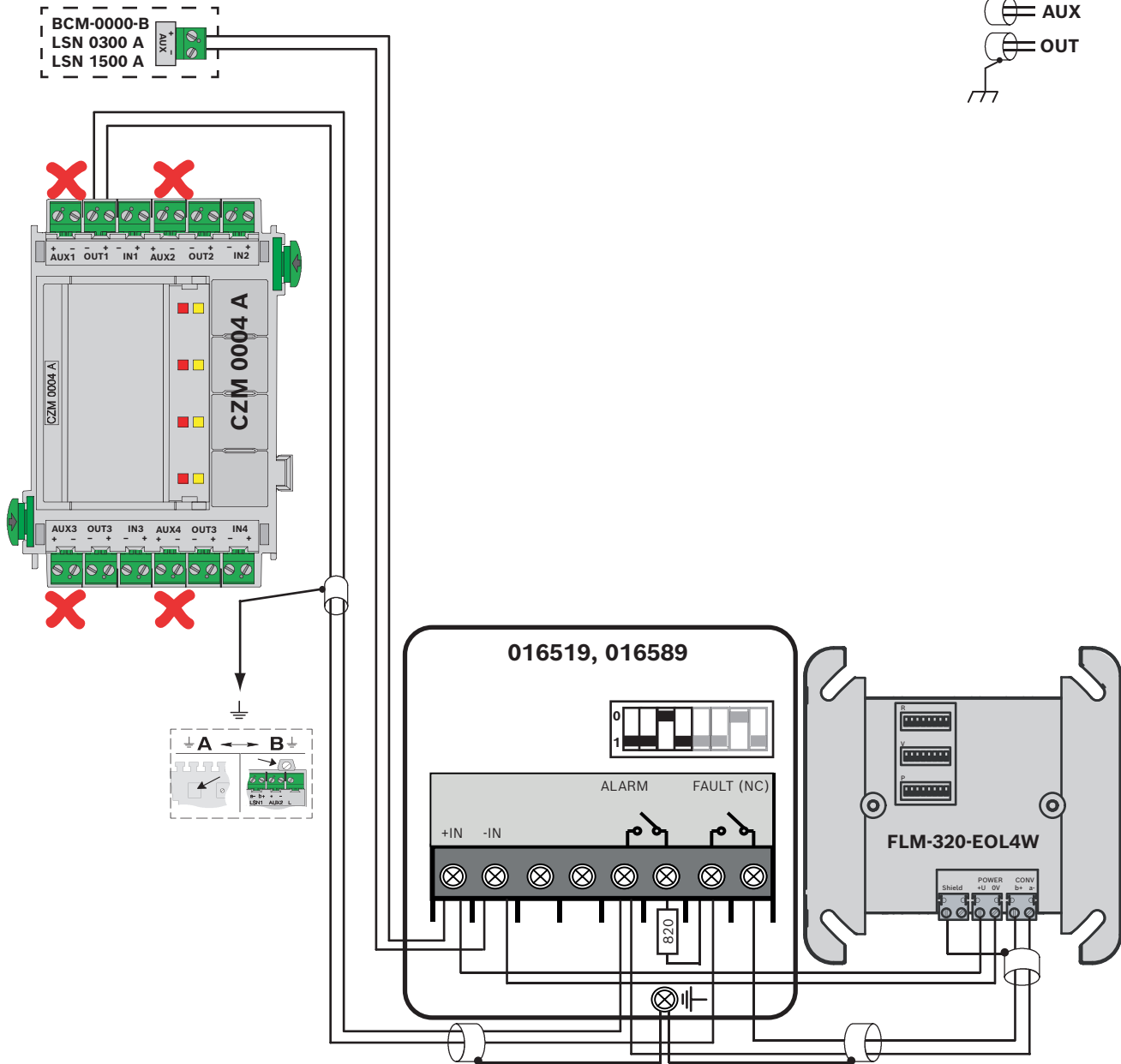




016519, 016589
IR3 Flame Detector



ELS

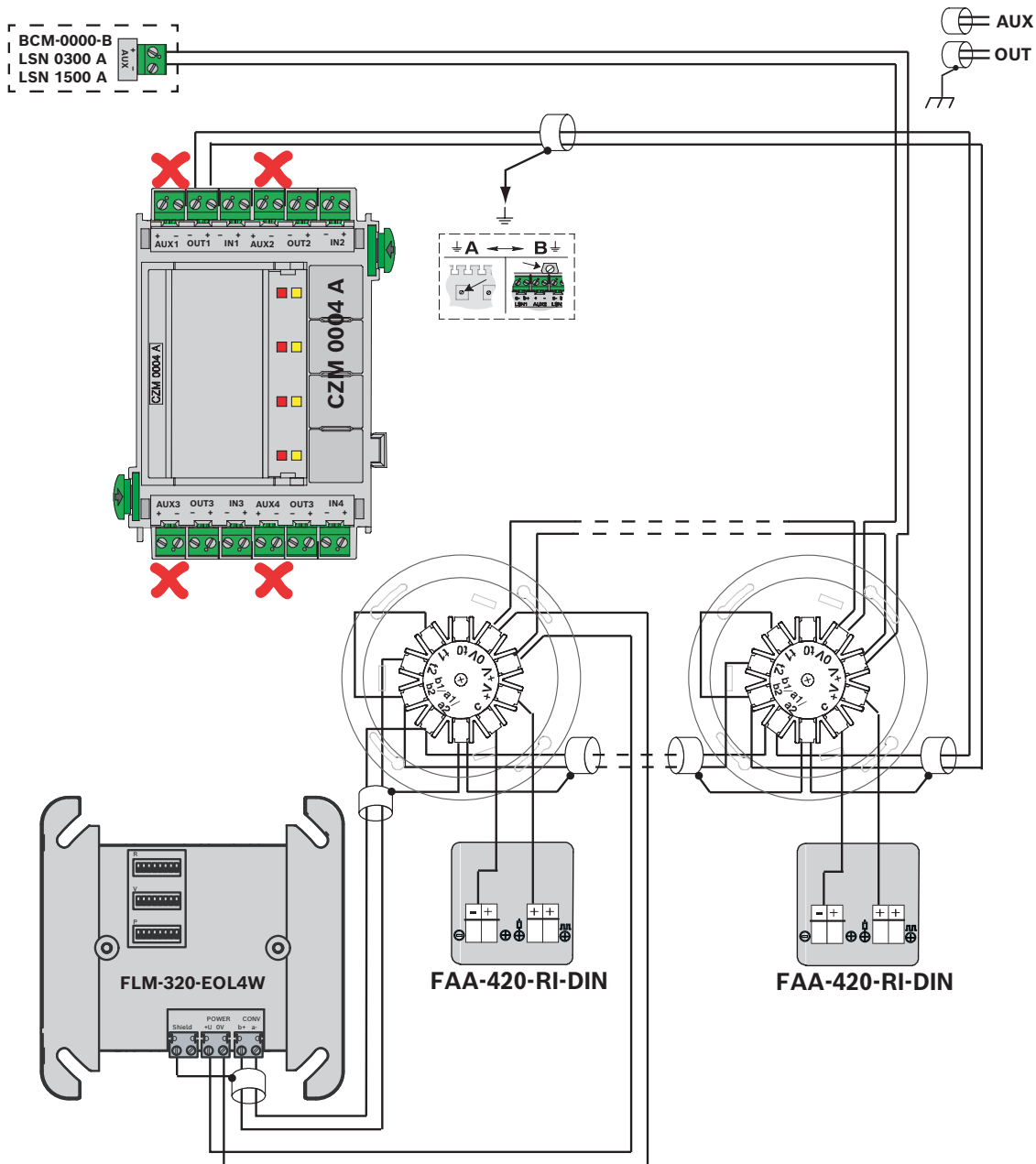


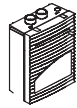


FCA-500-EU
FCP-O 500
FCP-O 500-P
FCP-OC 500
FCP-OC 500-P

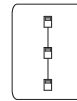


ELS



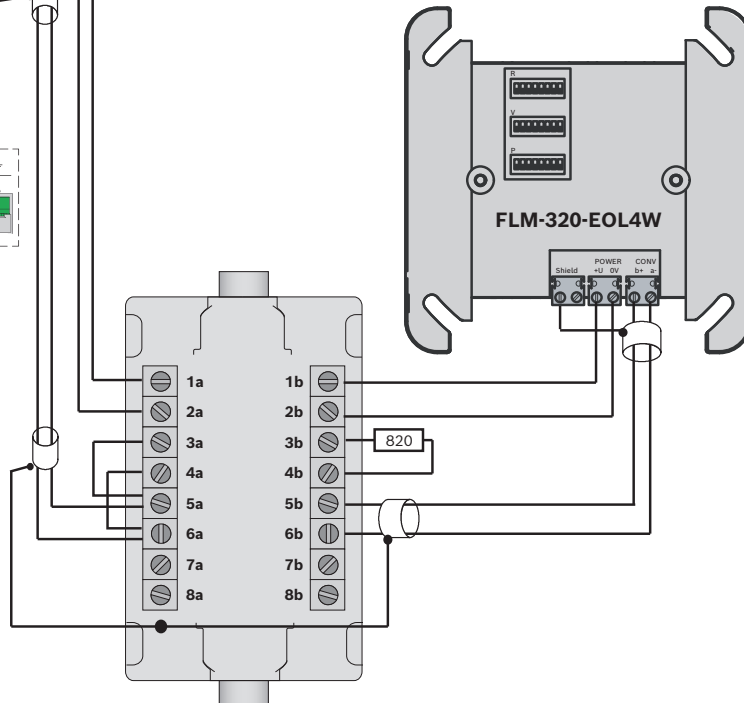
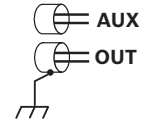
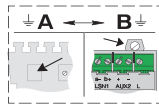
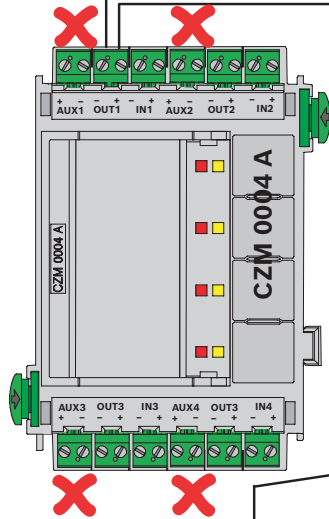


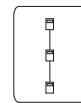
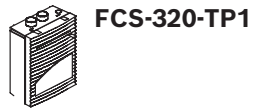
FCS-320-TM Series



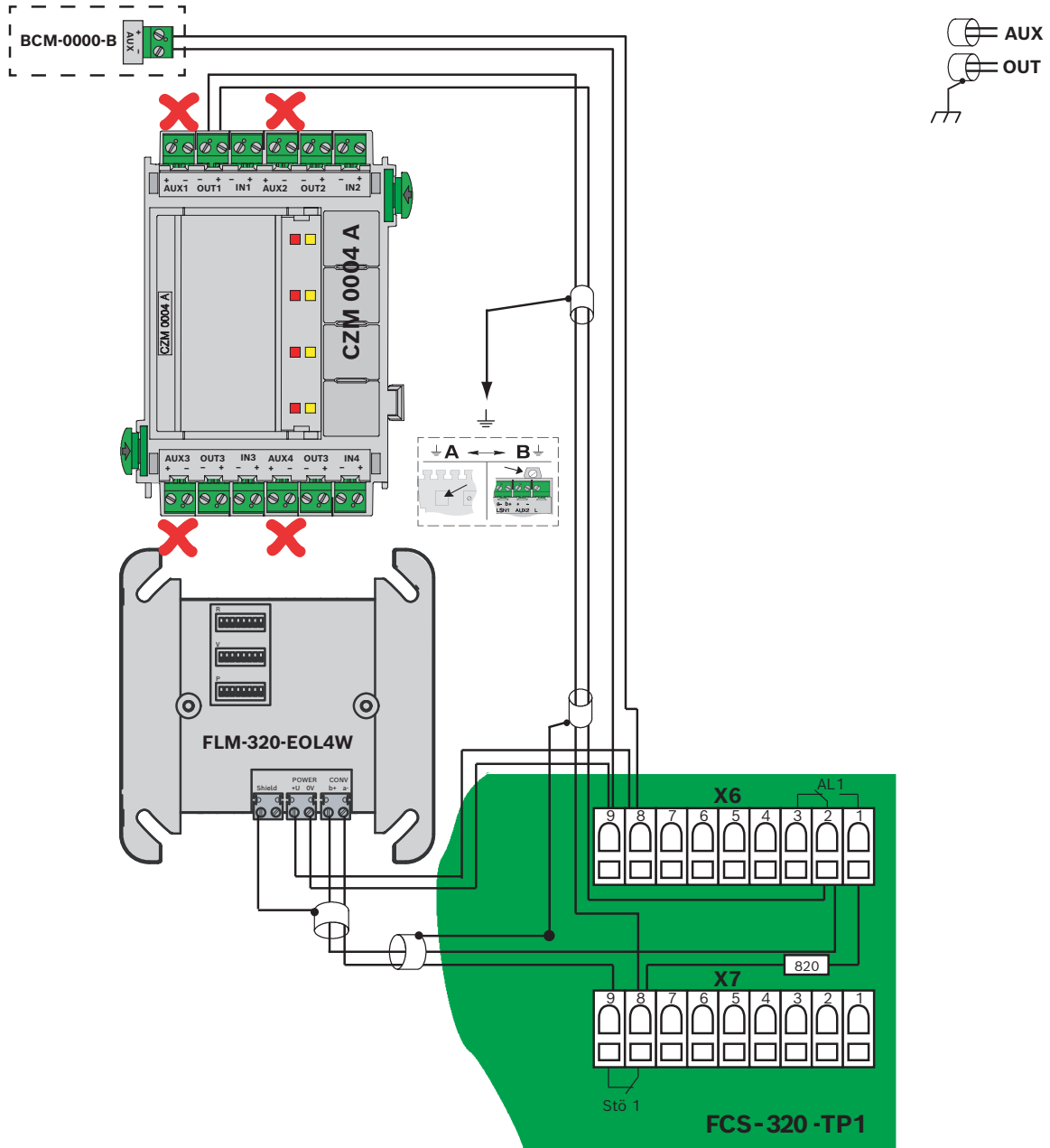
ELS

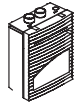
BCM-0000-B
LSN 0300 A
LSN 1500 A





ELS

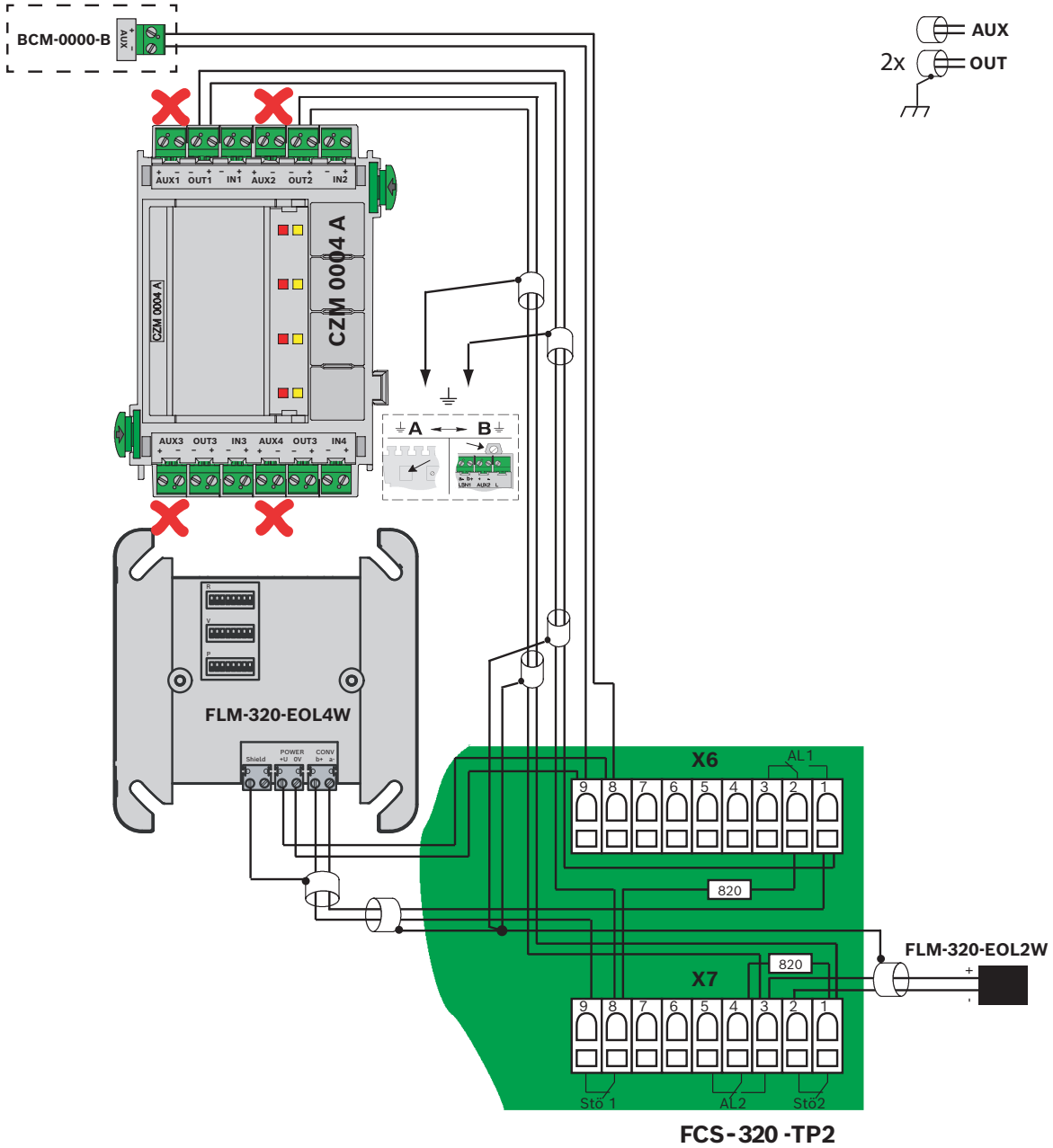




FCS-320-TP2



ELS





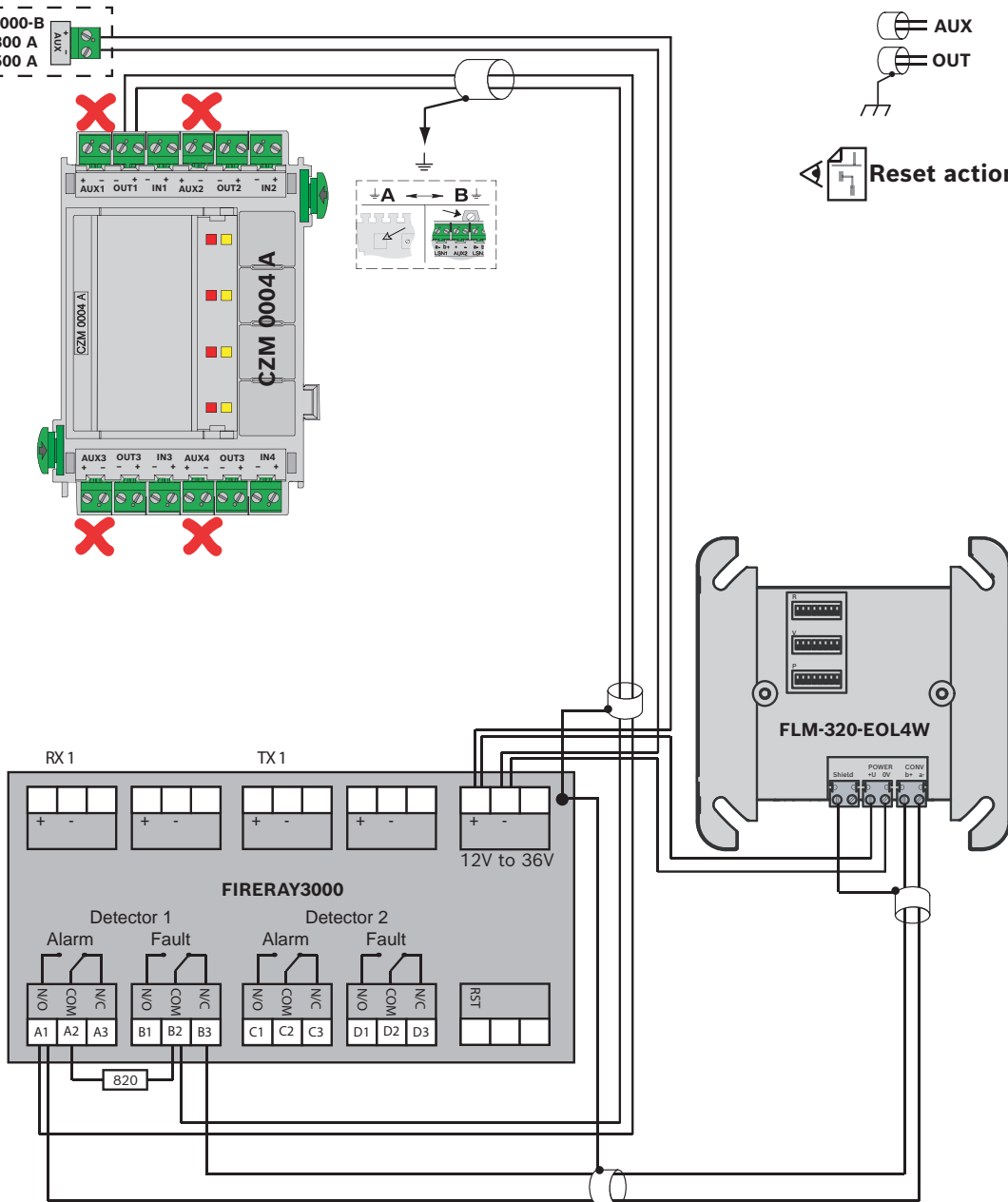
FIRERAY3000

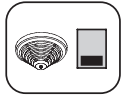
1 x



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

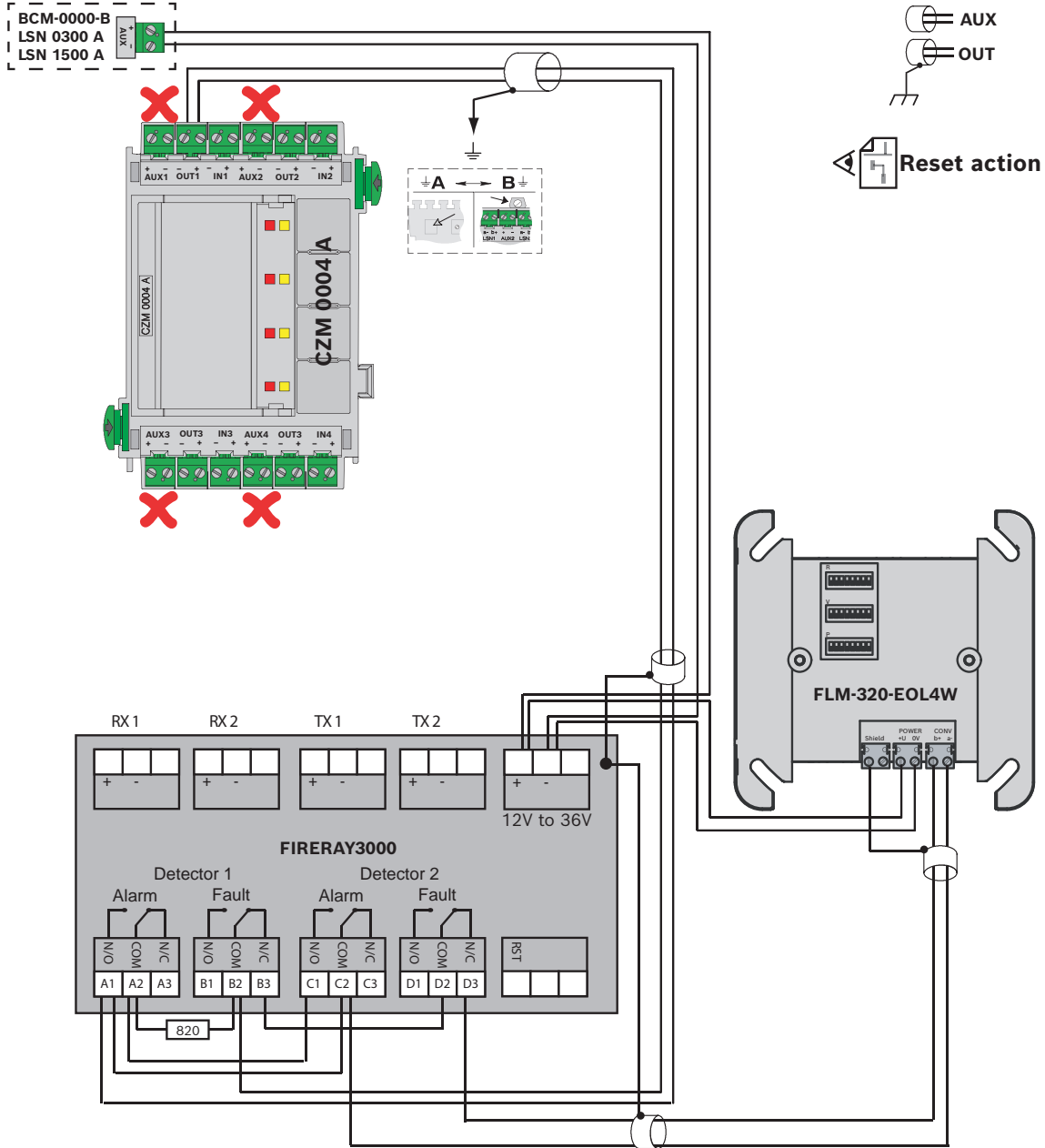




FIRERAY3000
2 x  **OUT1**



ELS



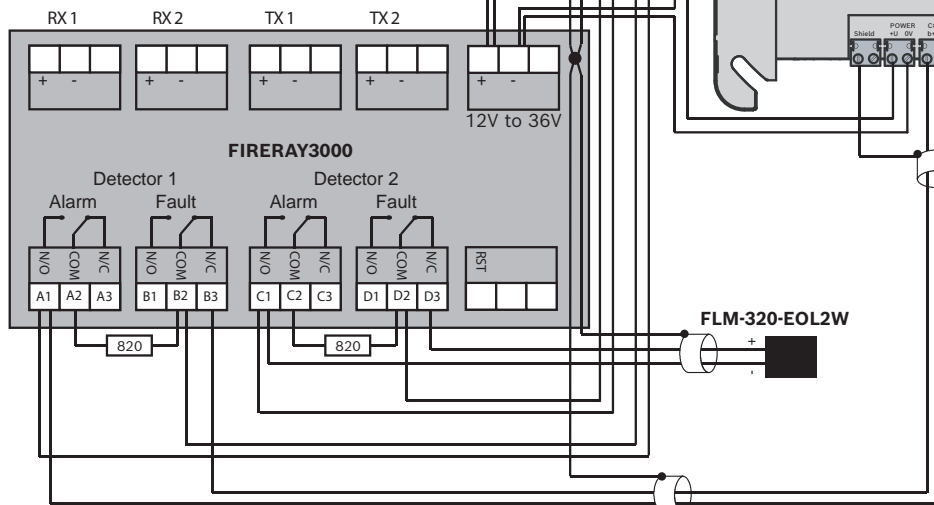
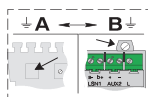
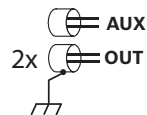
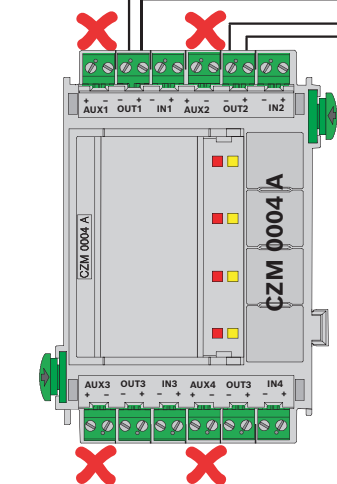


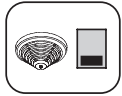
FIRERAY3000
2 x **OUT1+2**



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



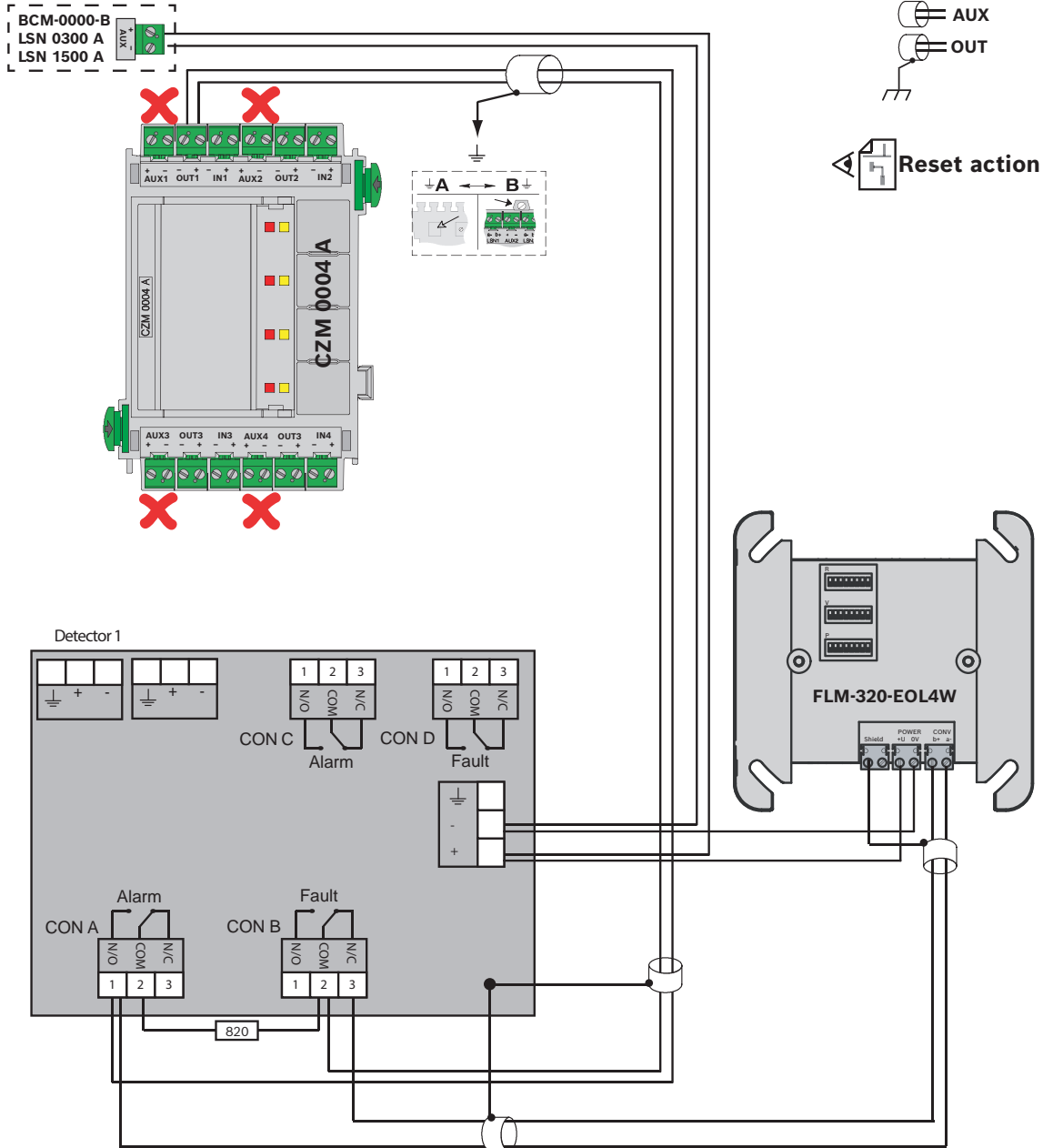


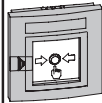
FIRERAY5000

1 x

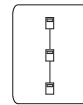


ELS

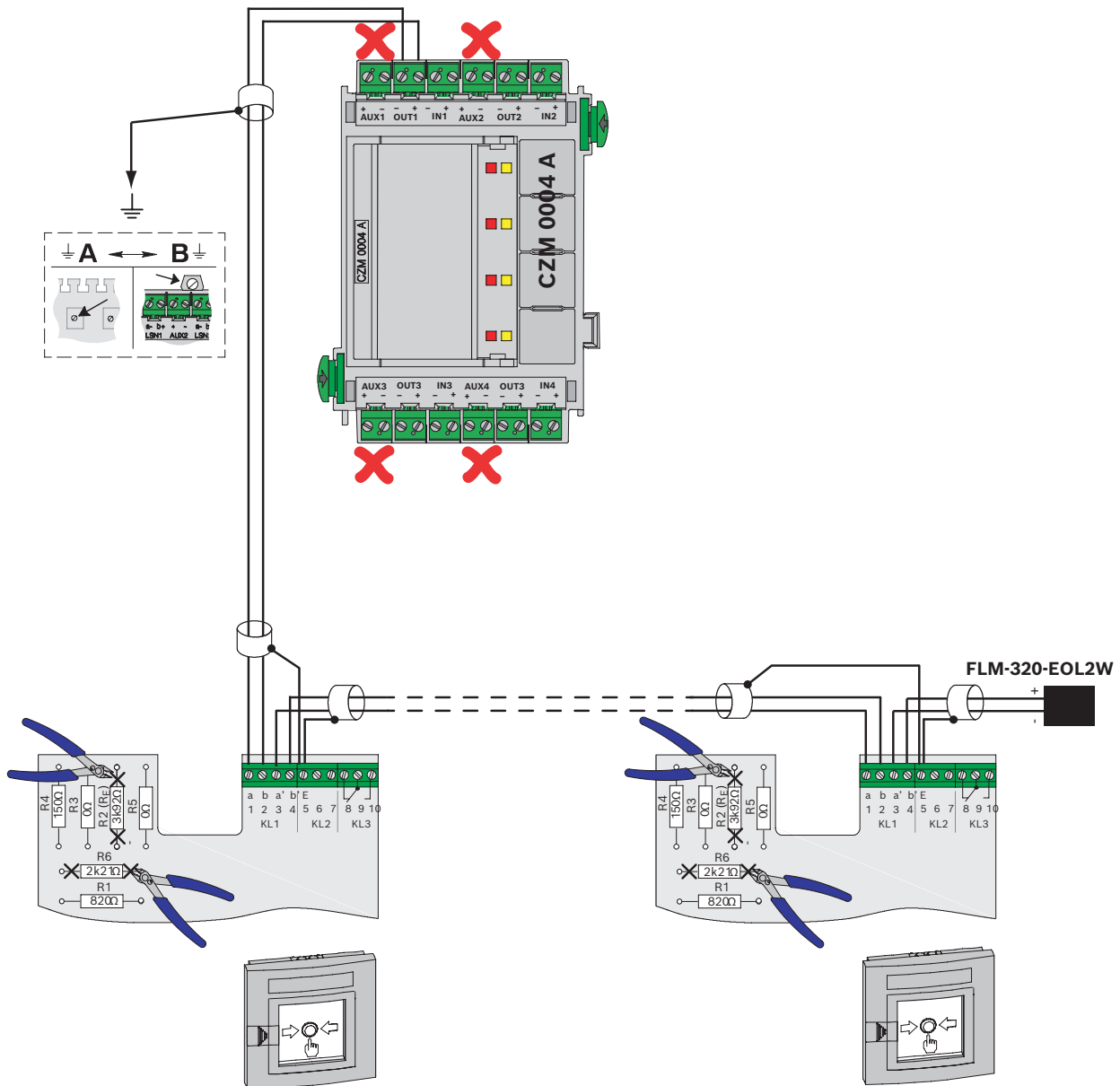


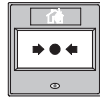


FMC-120-DKM-G-R
 FMC-120-DKM-H-R
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B
 FMC-120-DKM-G-Y



ELS

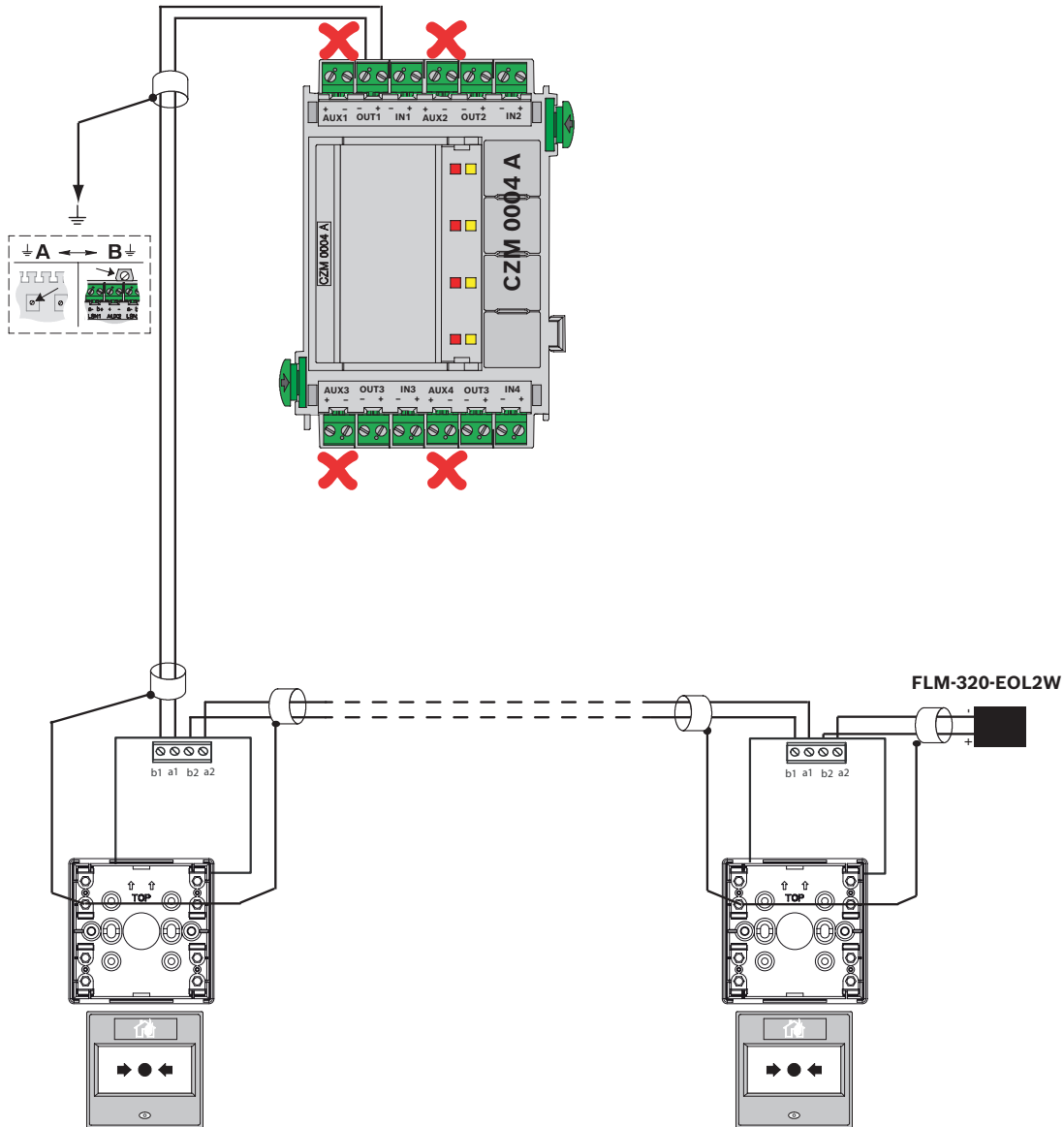




FMC-300RW-GSGBU
 FMC-300RW-GSRBU
 FMC-300RW-GSGRD
 FMC-300RW-GSRRD
 FMC-300RW-GSGYE
 FMC-300RW-GSRYE

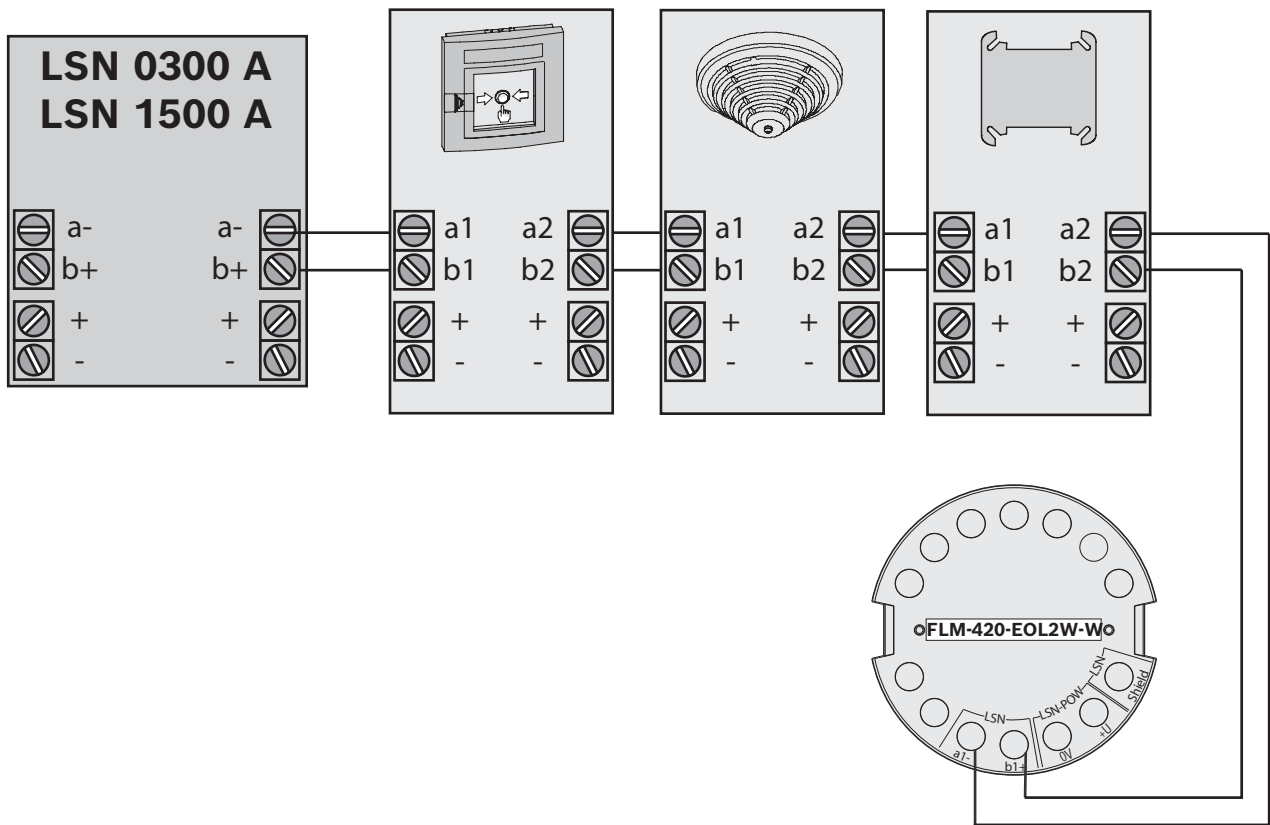
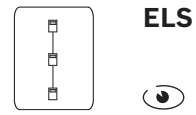


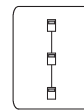
ELS



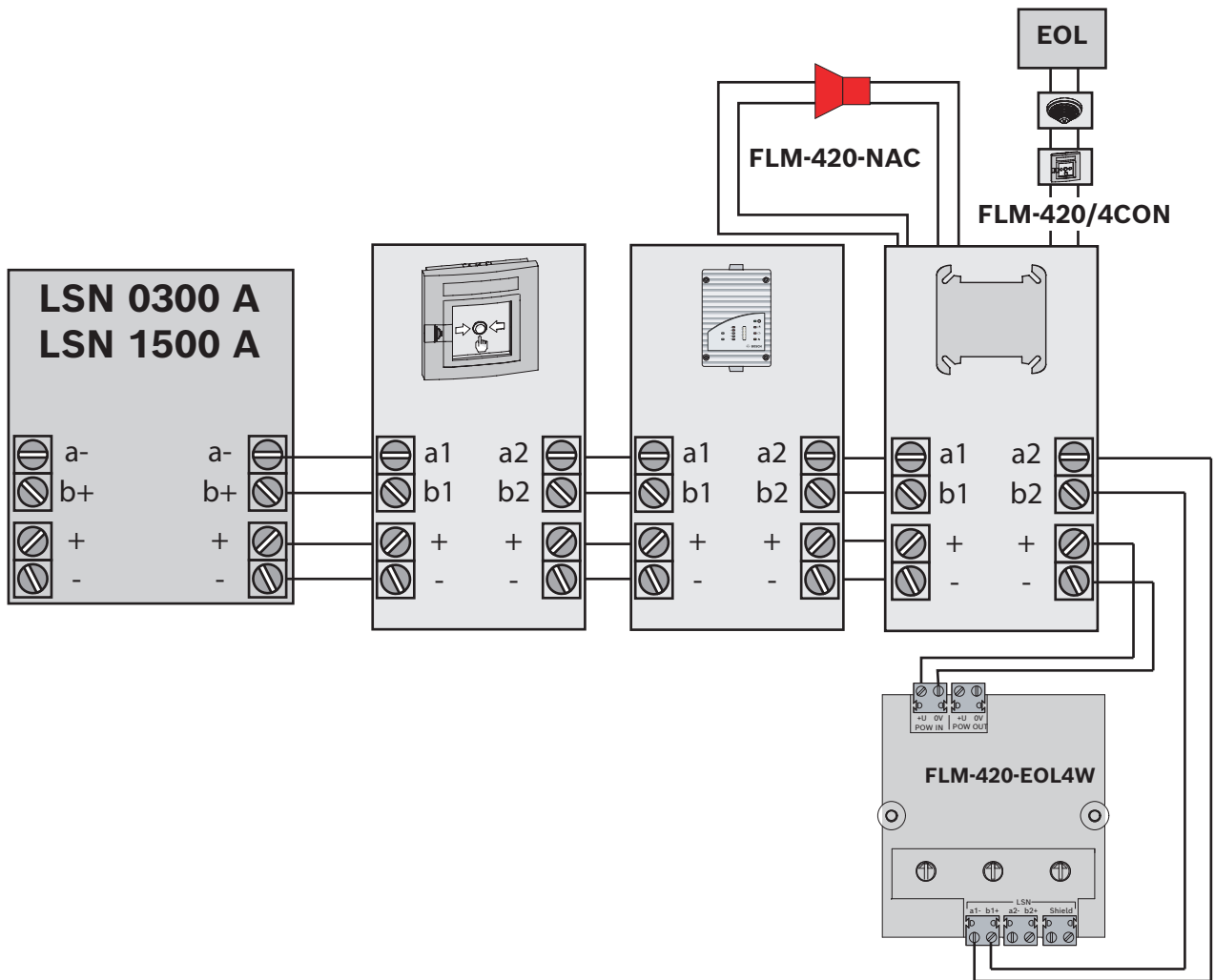
2.6.2

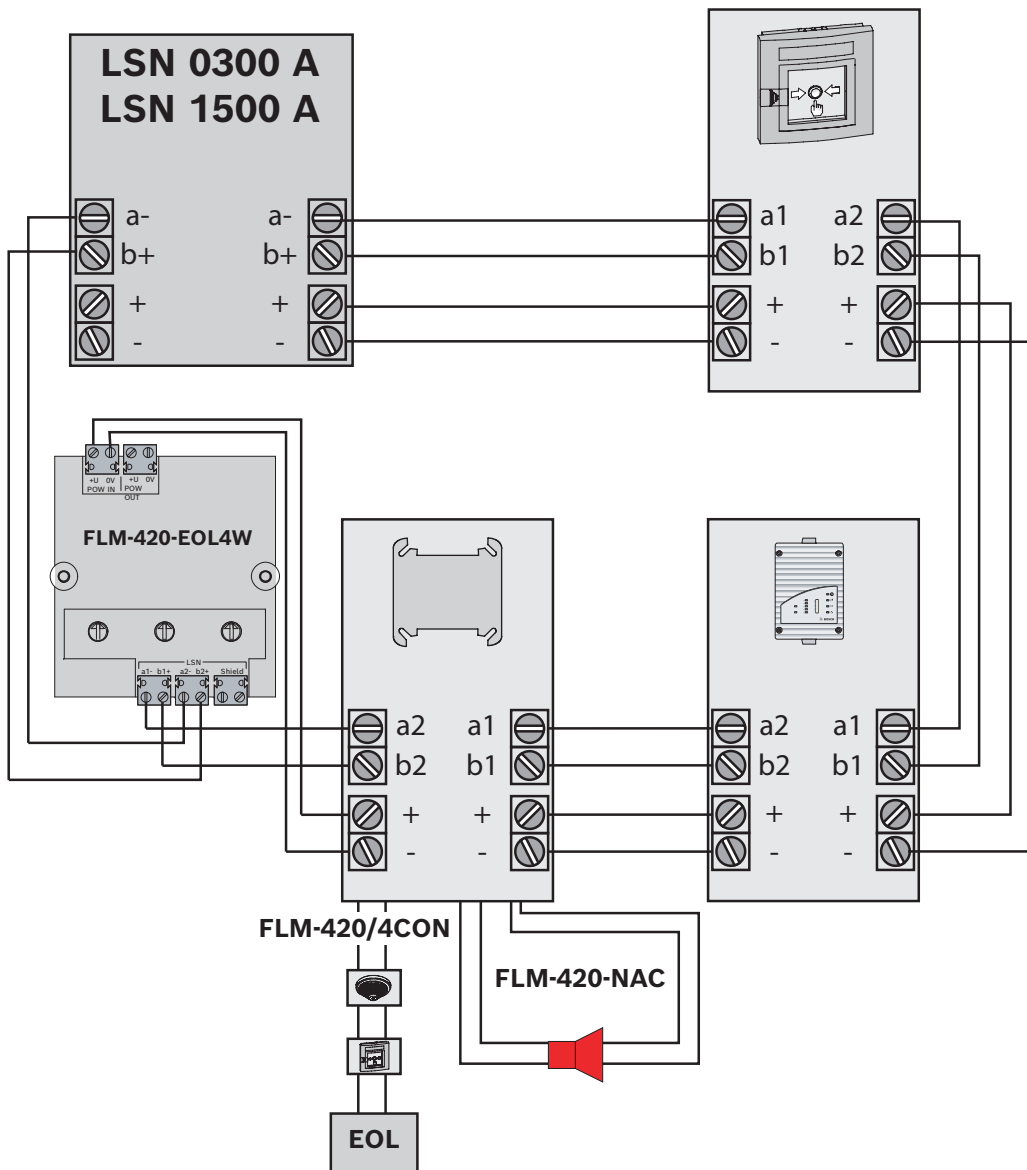
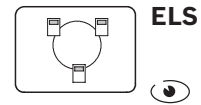
LSN 0300 A





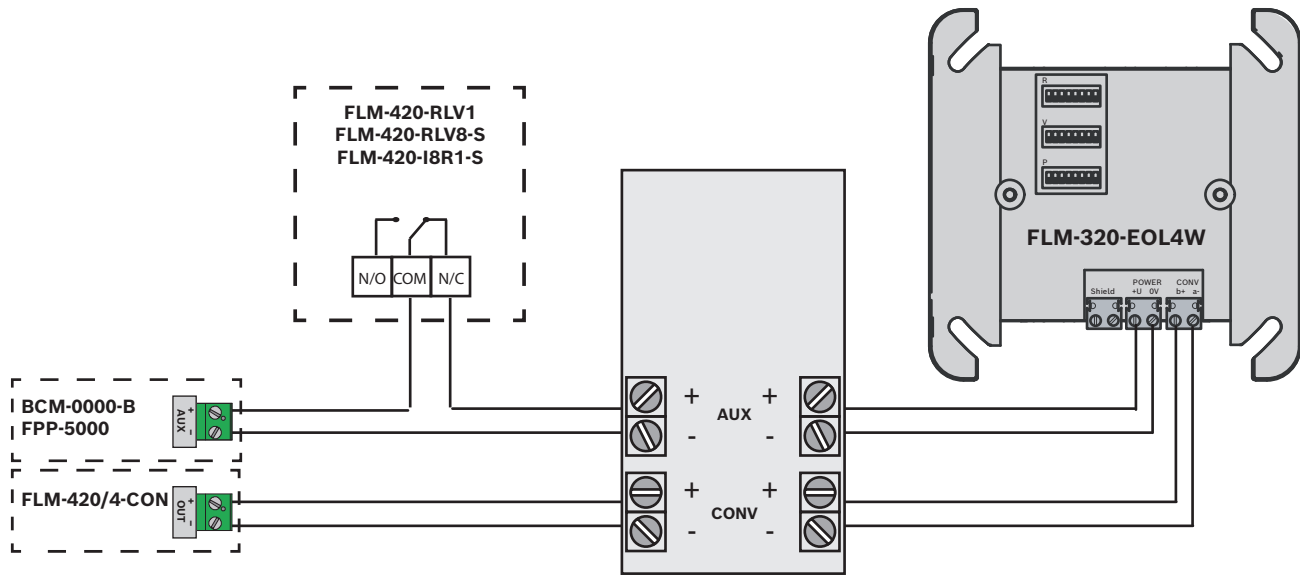
ELS

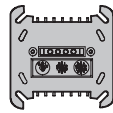
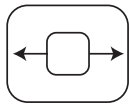




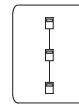
Reset action

ELS

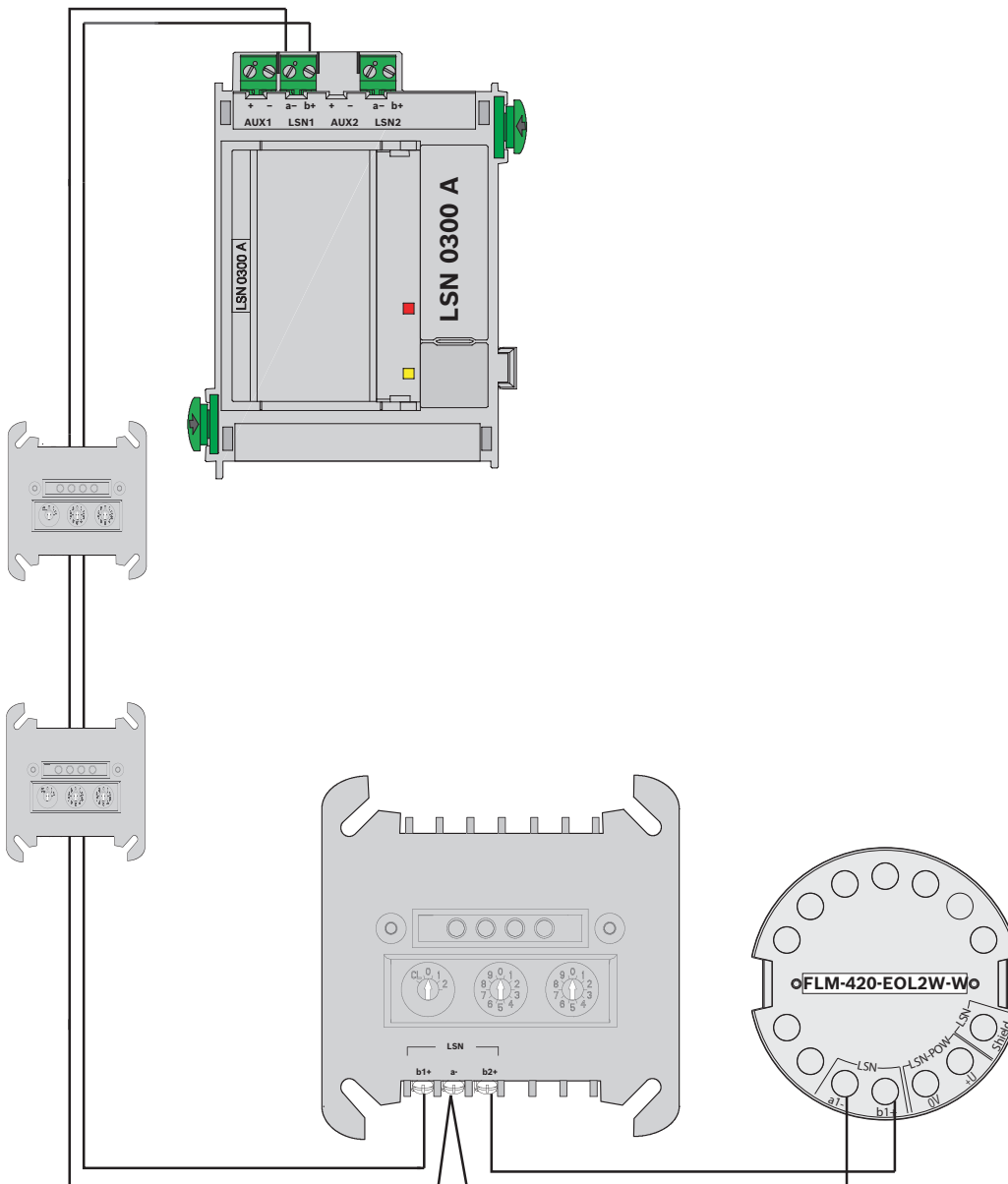


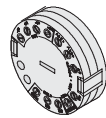
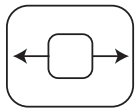


FLM-420-I2-D
 FLM-420-O1I1-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

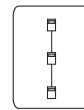


ELS

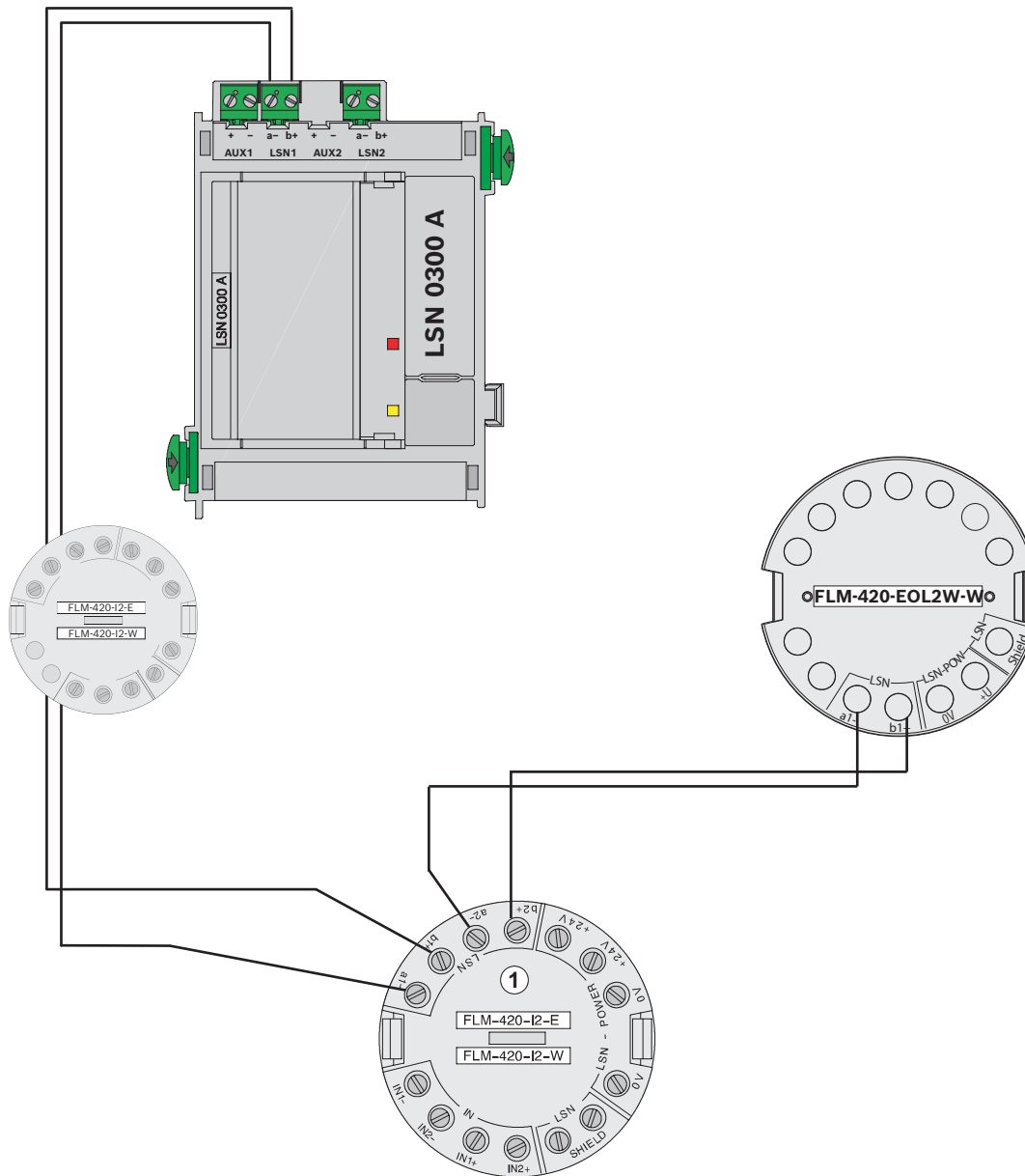


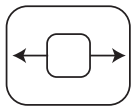


FLM-420-12-E/W

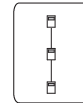


ELS

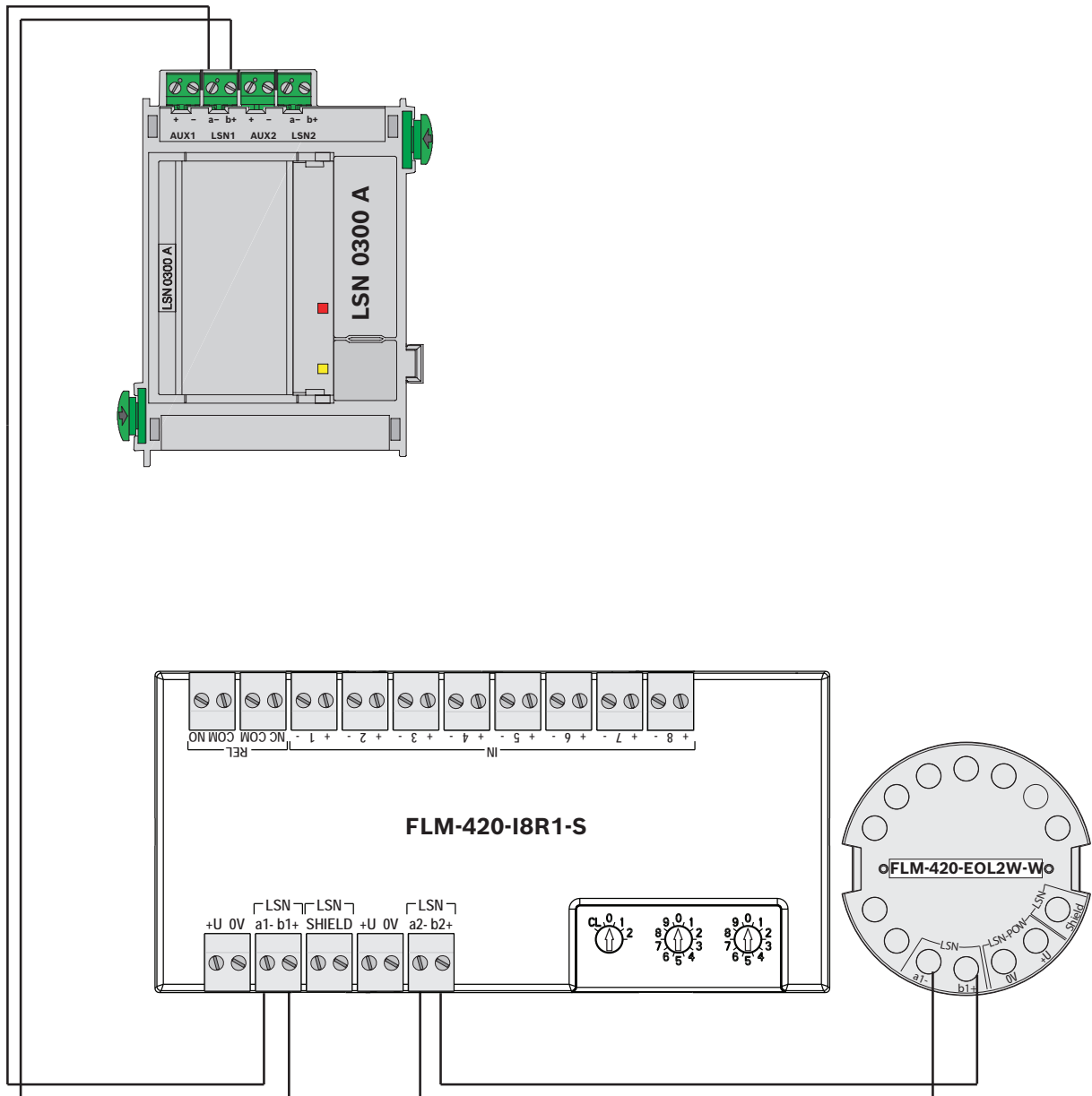


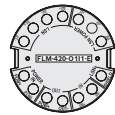
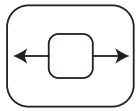


FLM-420-18R1-S

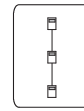


ELS

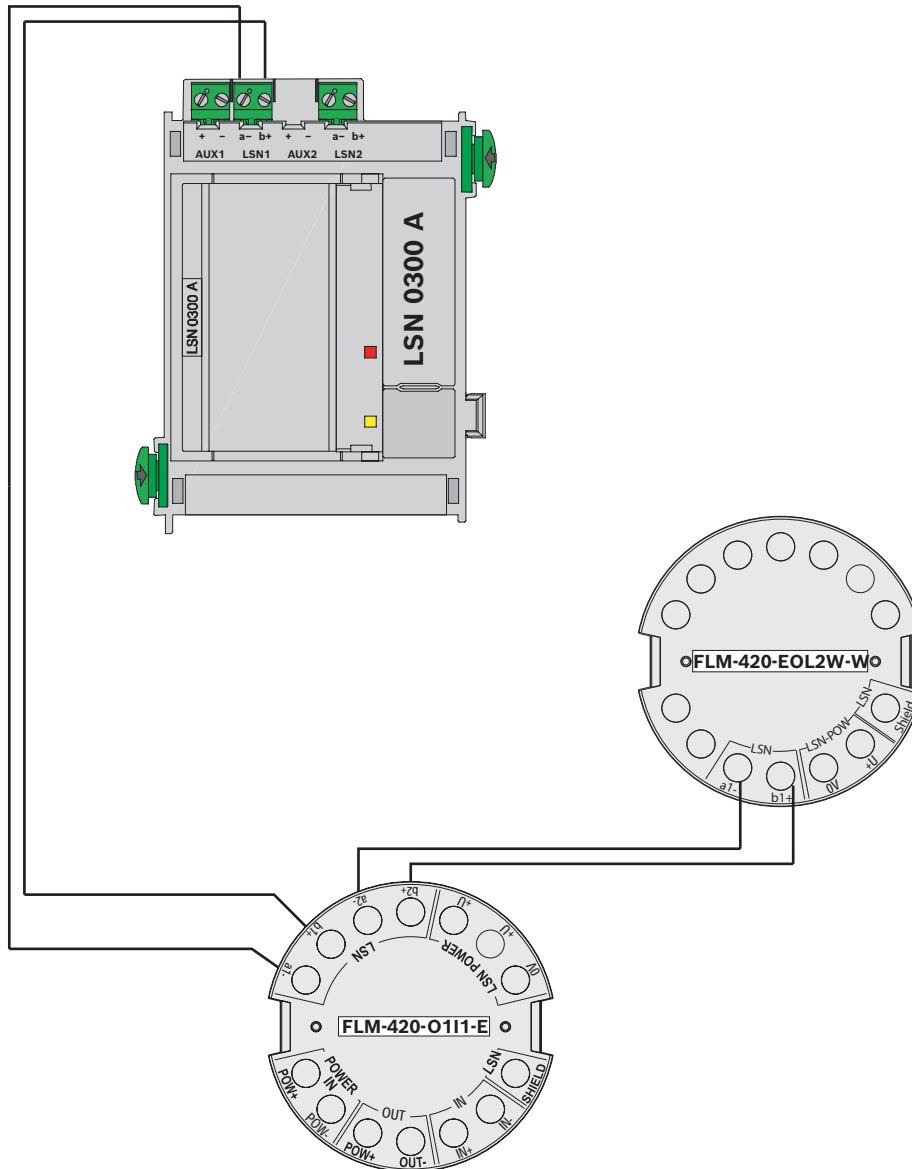


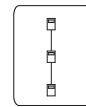
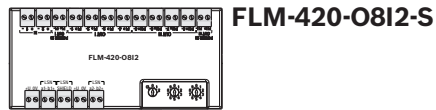
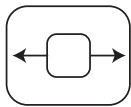


FLM-420-O111-E

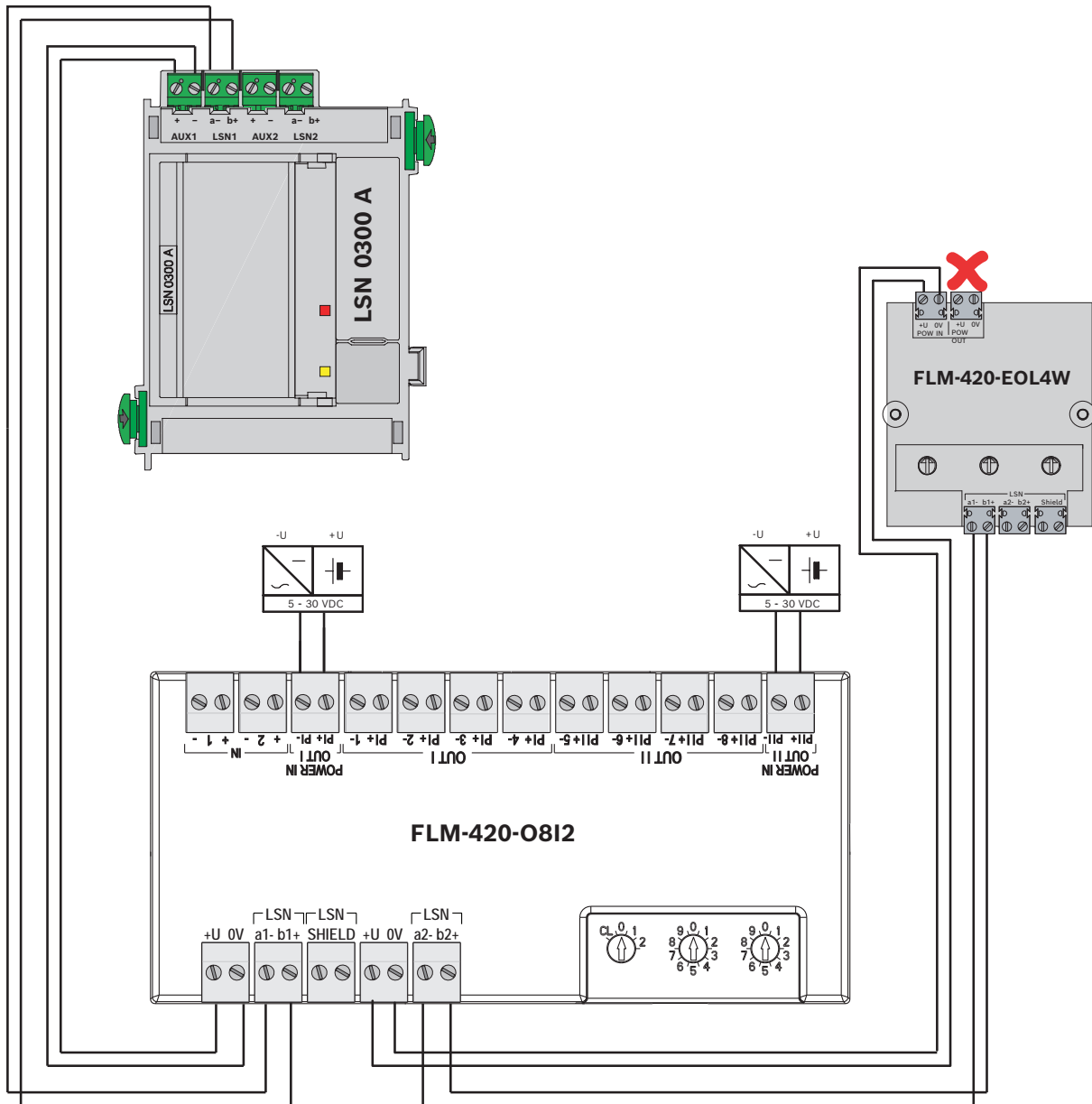


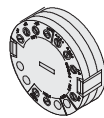
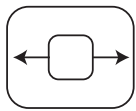
ELS



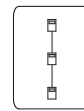


ELS

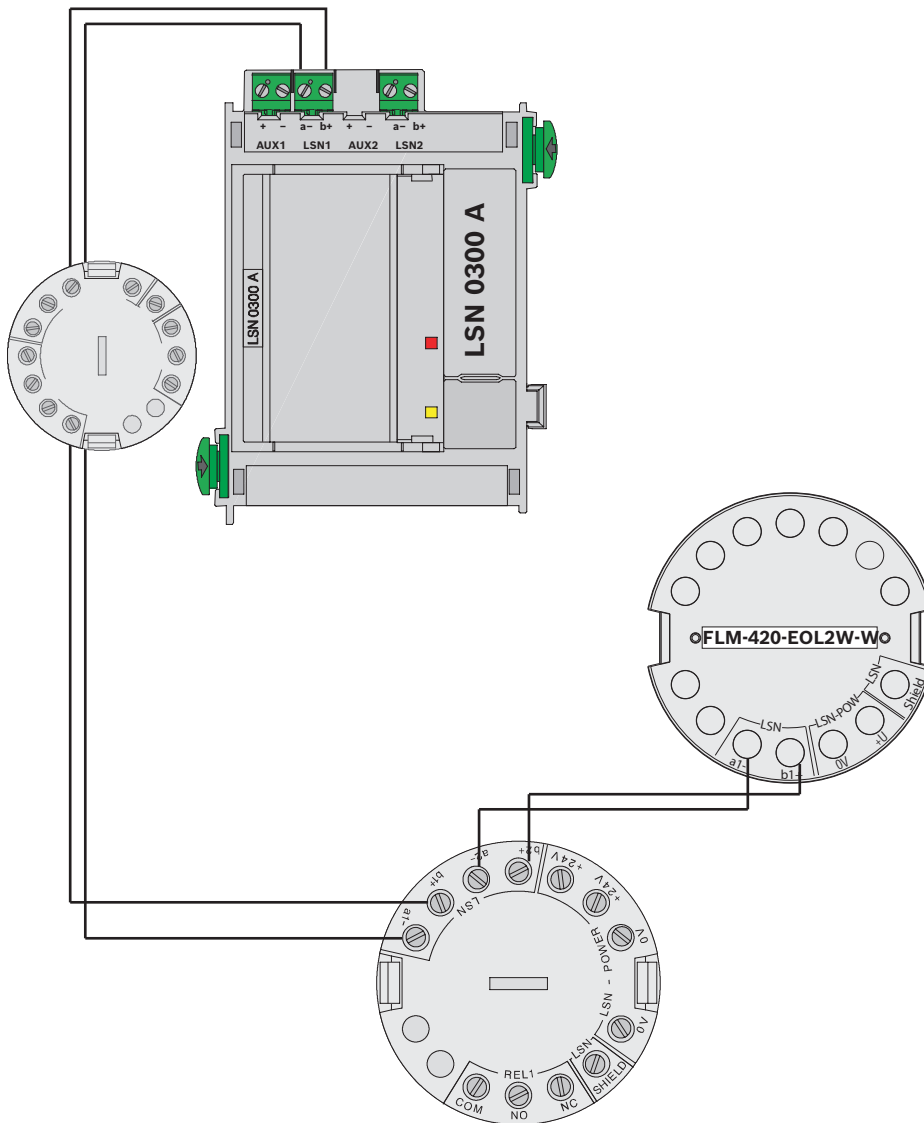


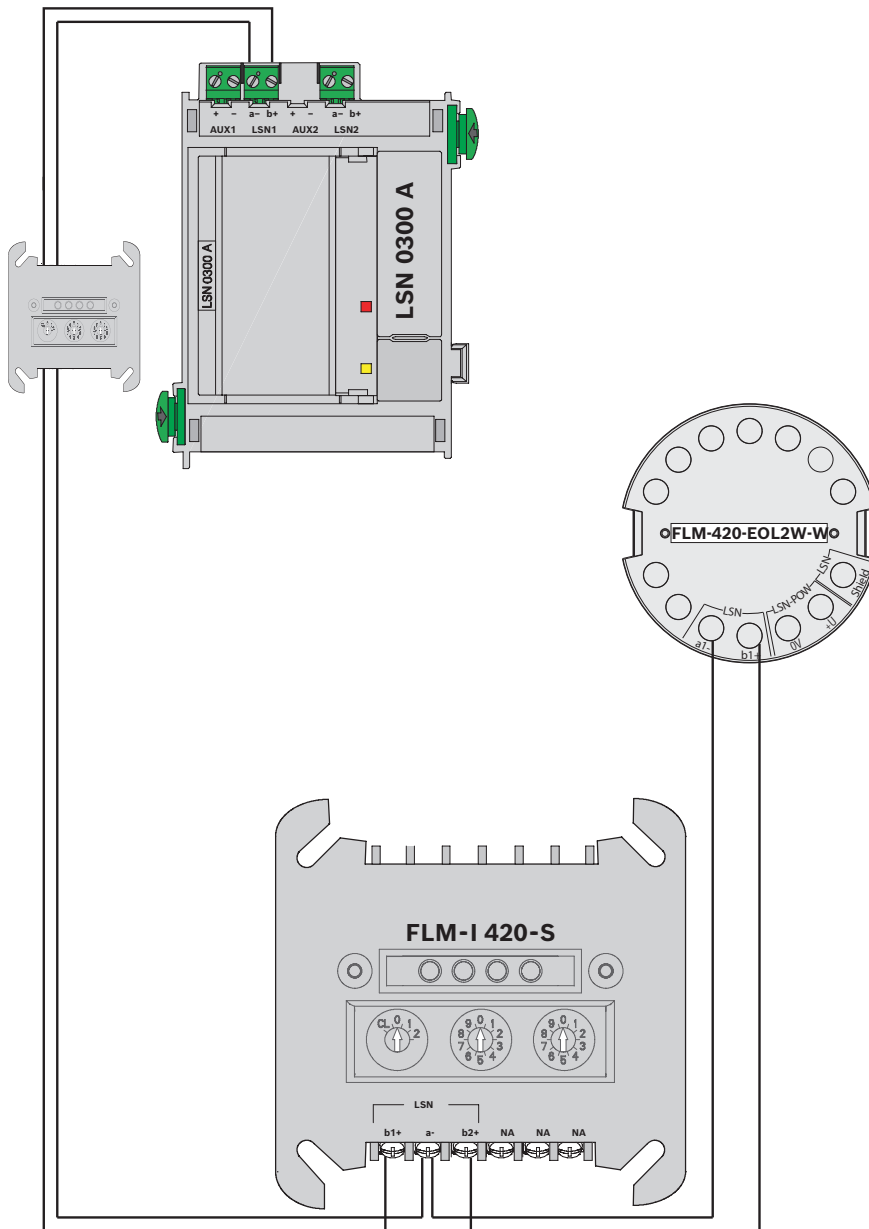
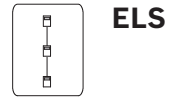
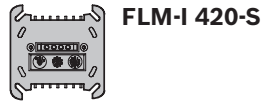
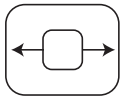


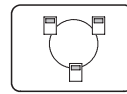
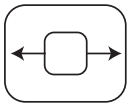
FLM-420-I2-E/-W
FLM-420-RLV1-E



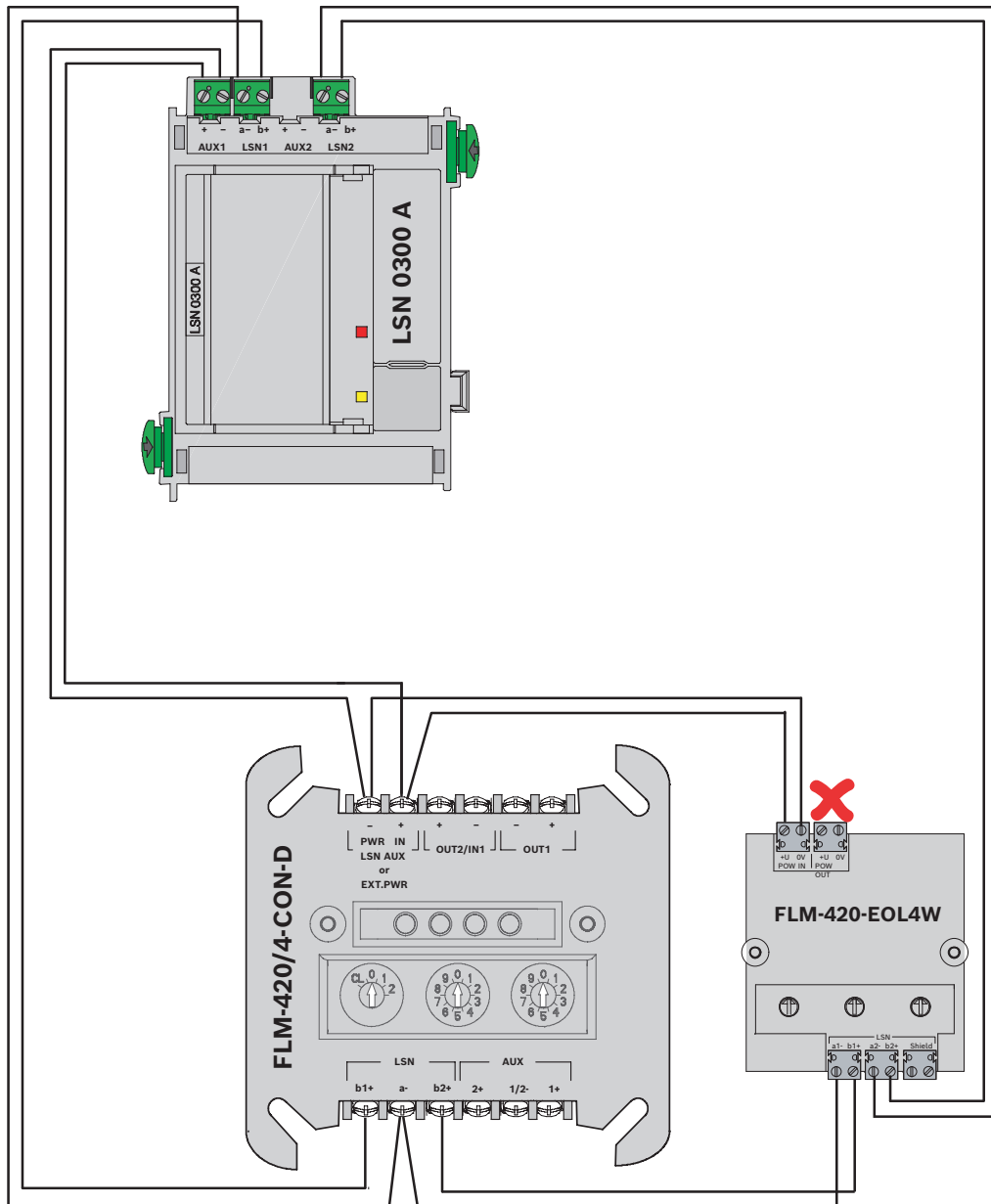
ELS

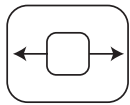




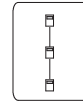


ELS

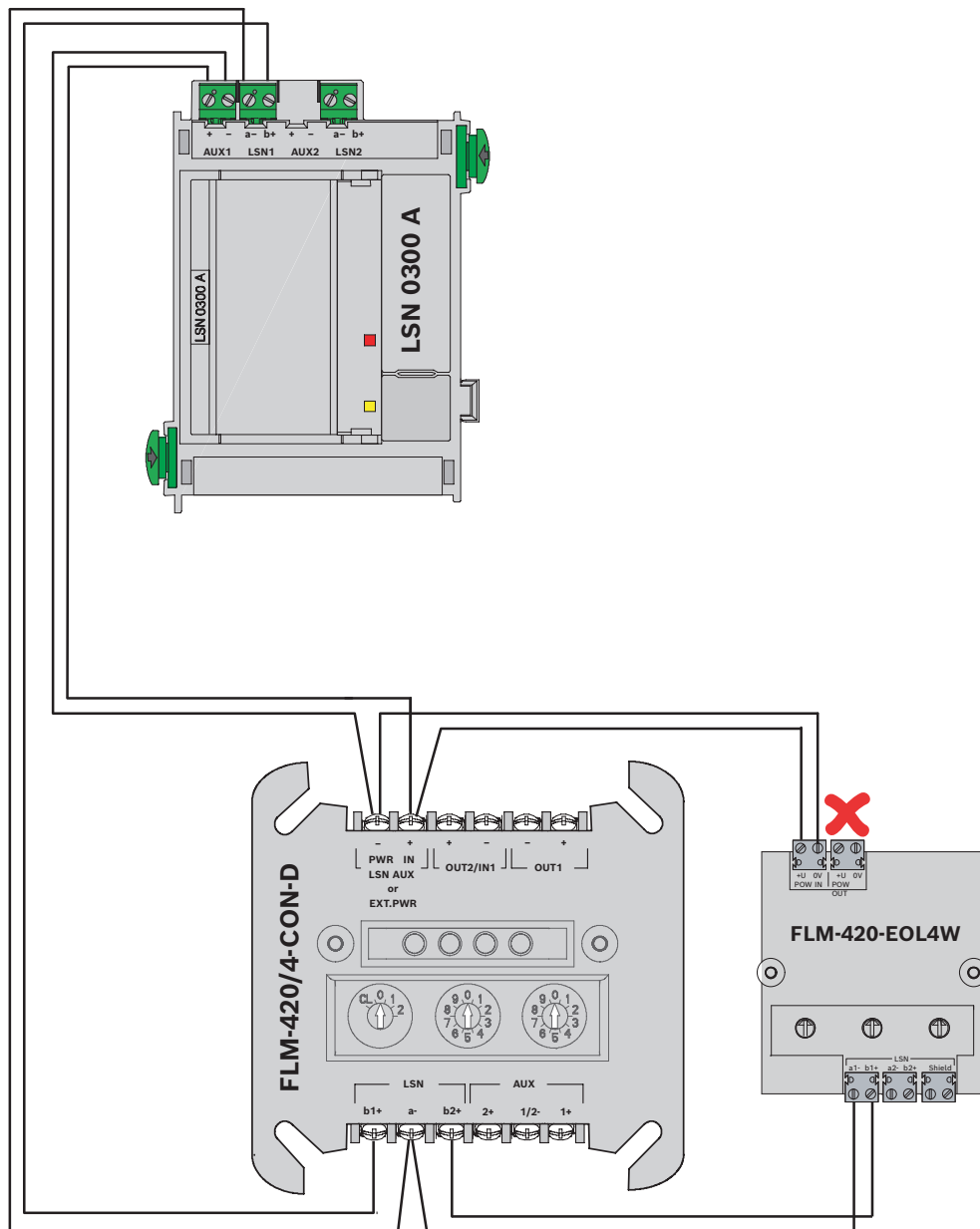


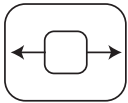


**FLM-420/
4-CON-D**

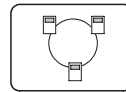


ELS

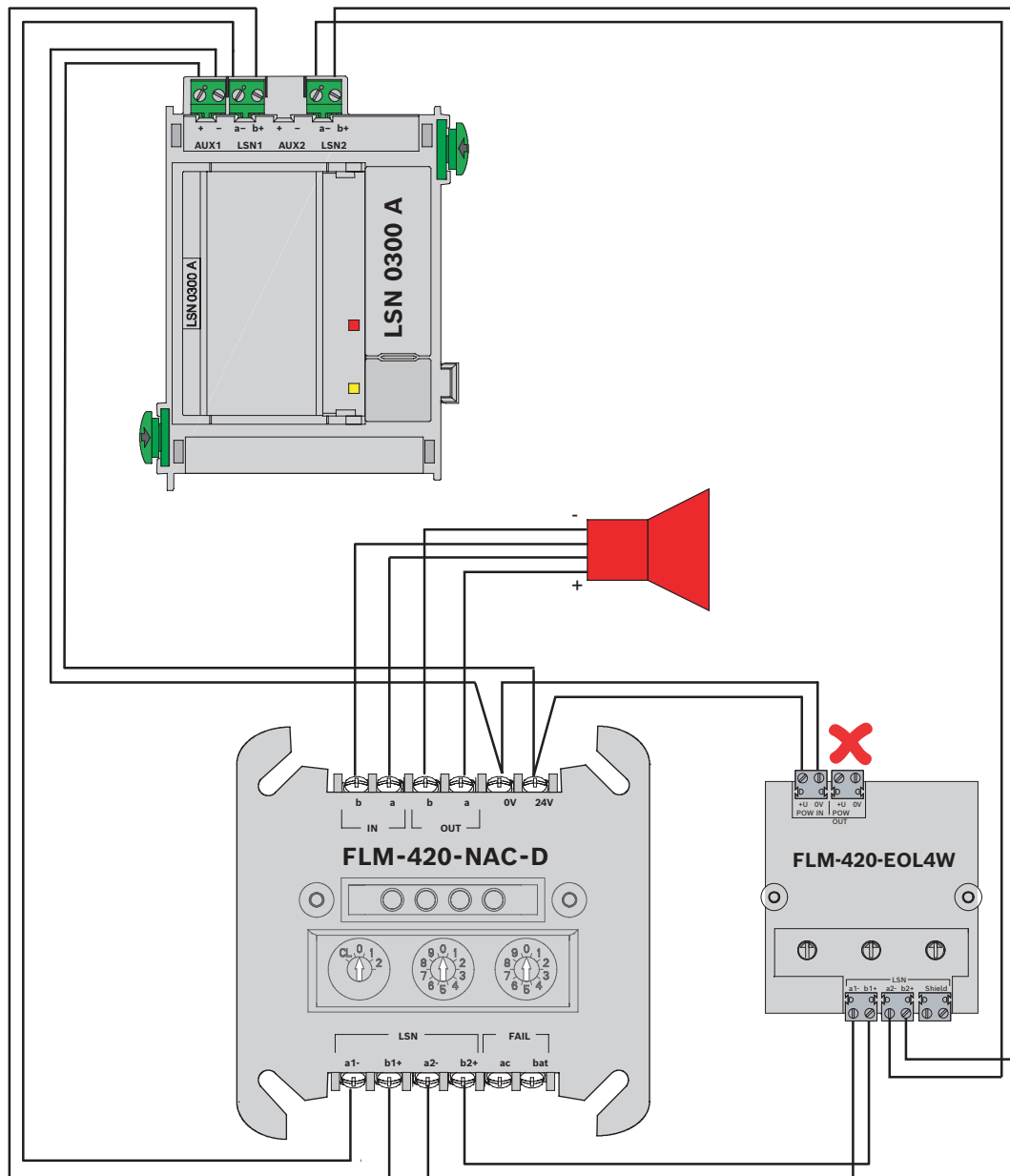


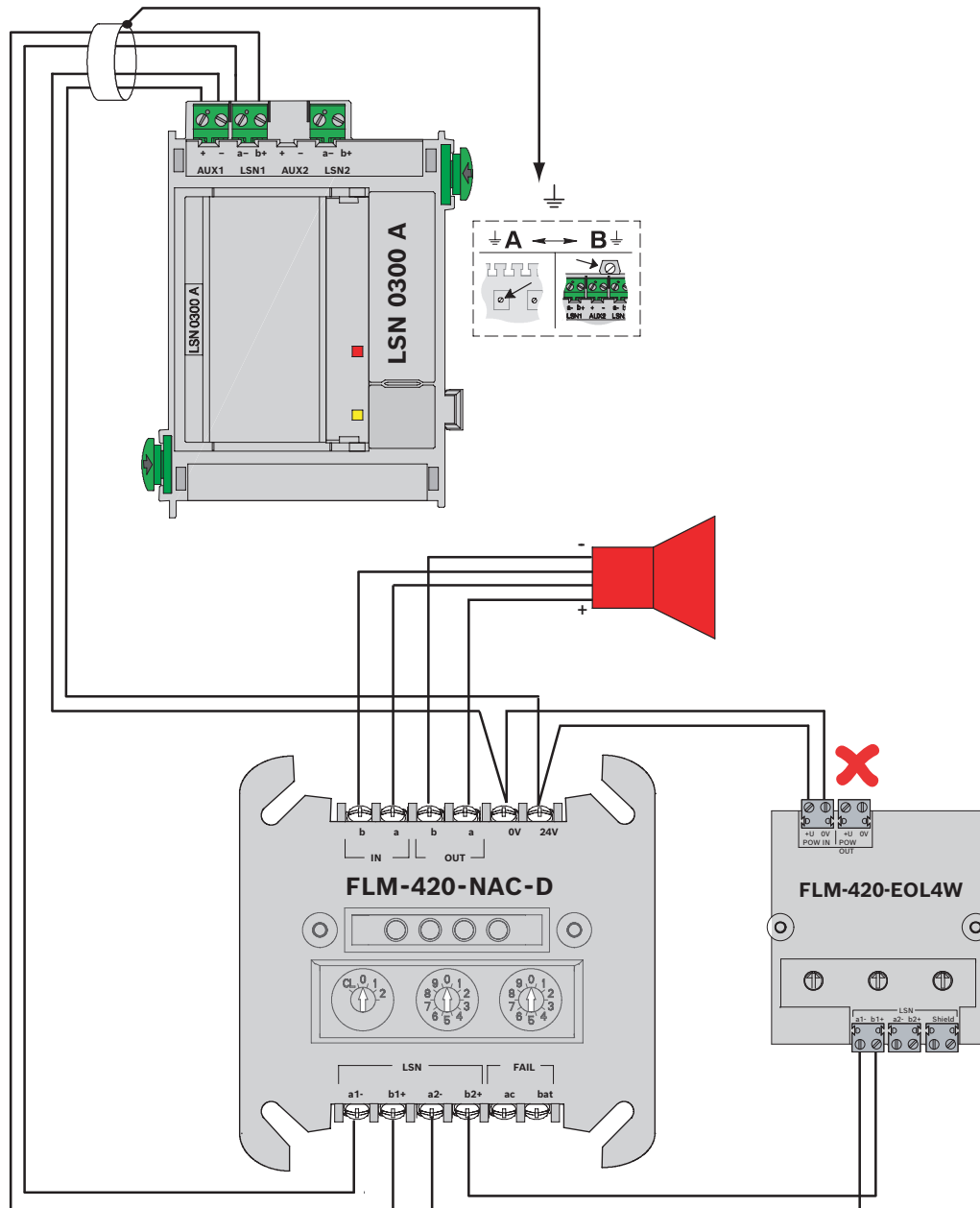
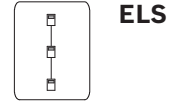
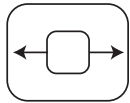


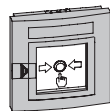
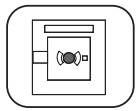
FLM-420-NAC-D/S



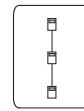
ELS
EN 54-2



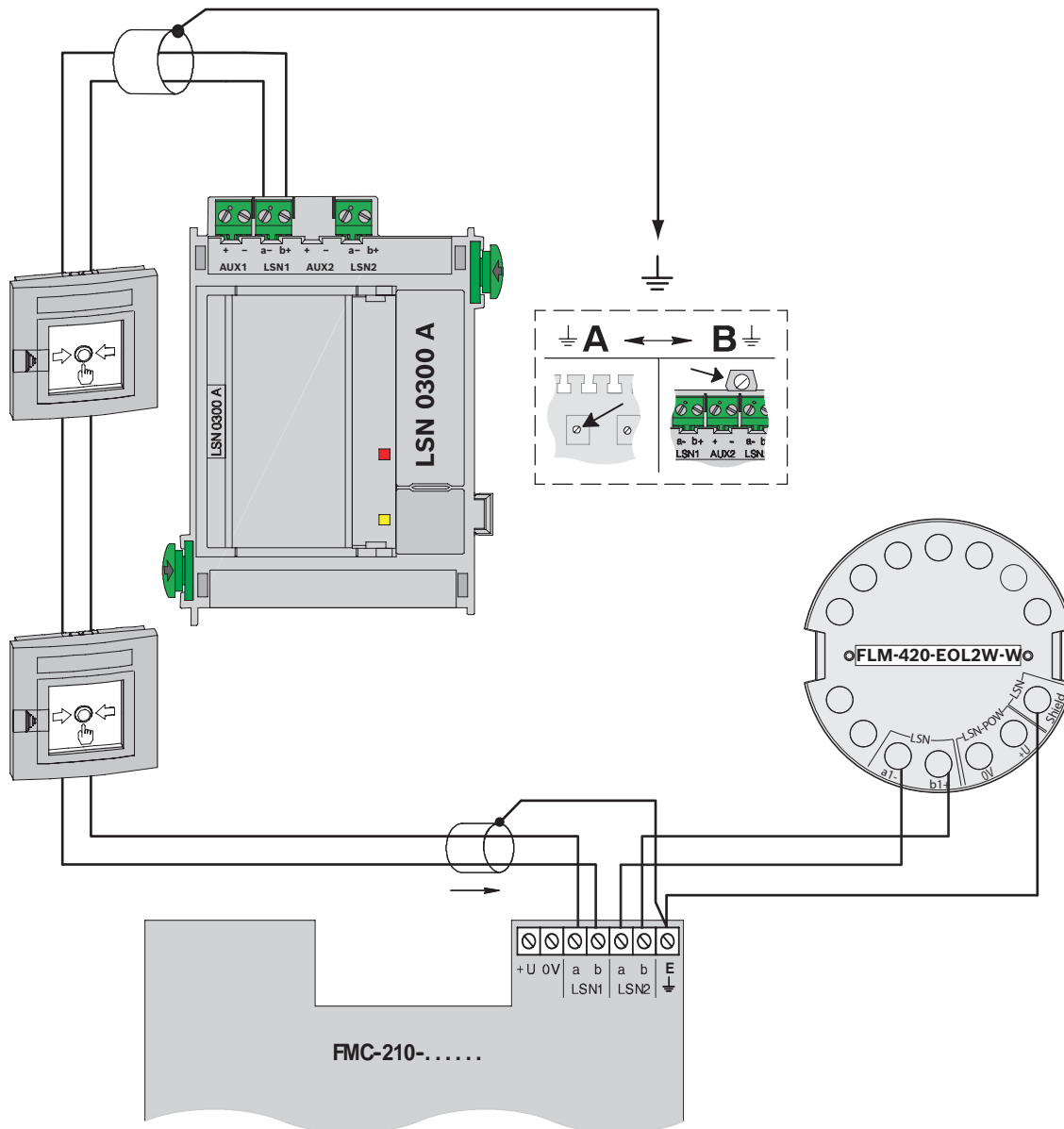


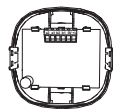


FMC-210...

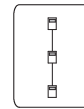


ELS

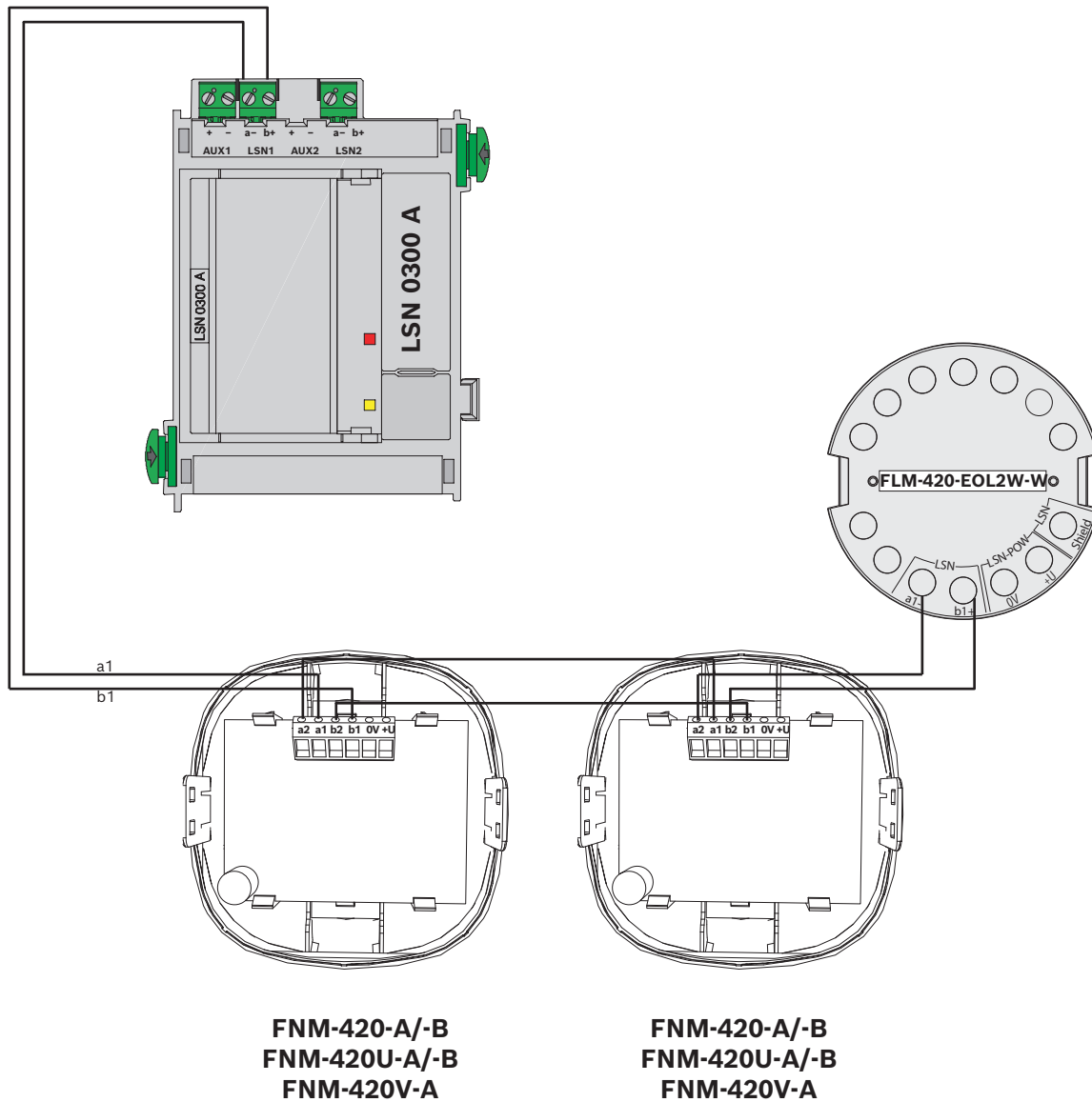




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS

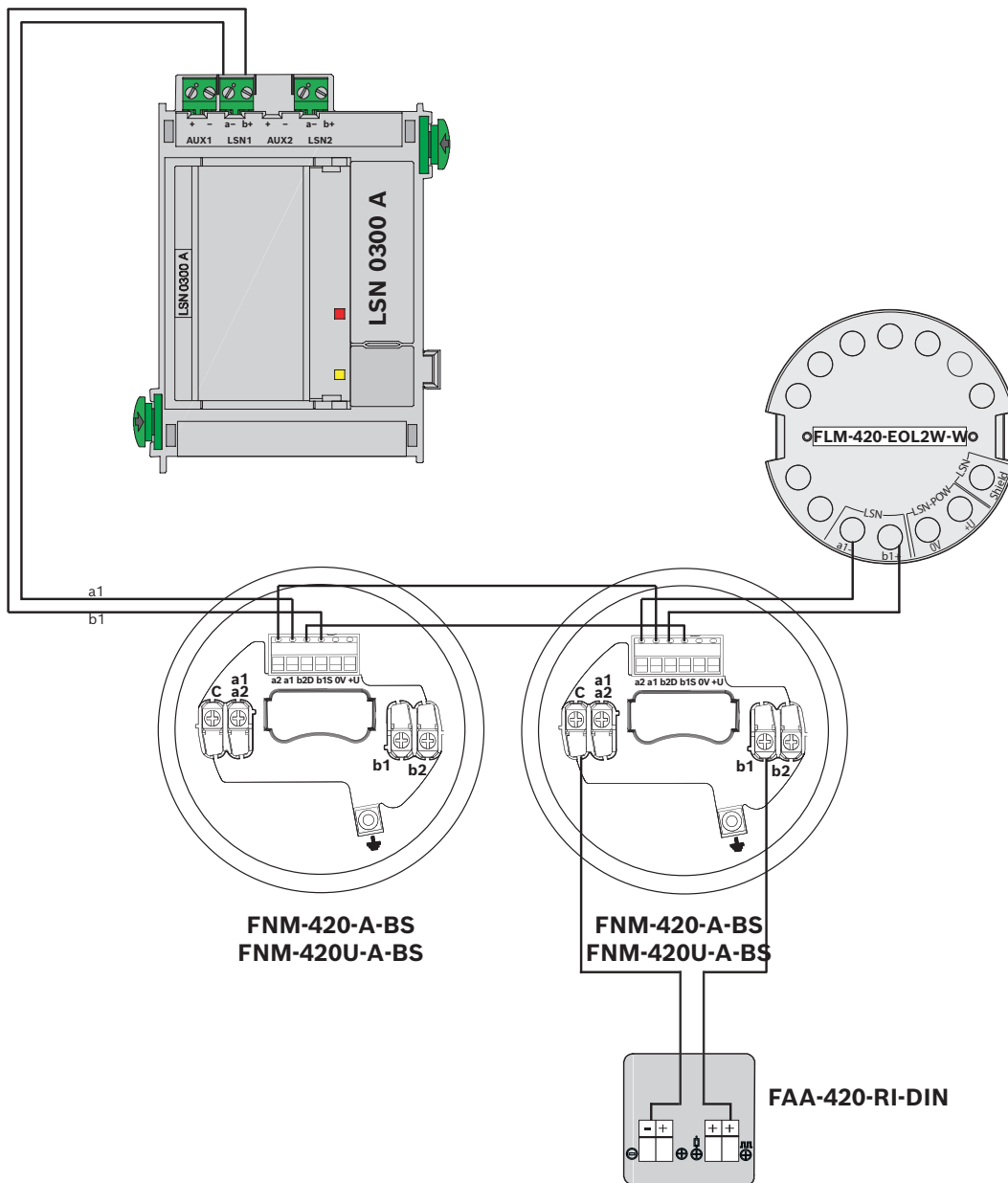




FNM-420-A-BS
FNM-420U-A-BS



ELS

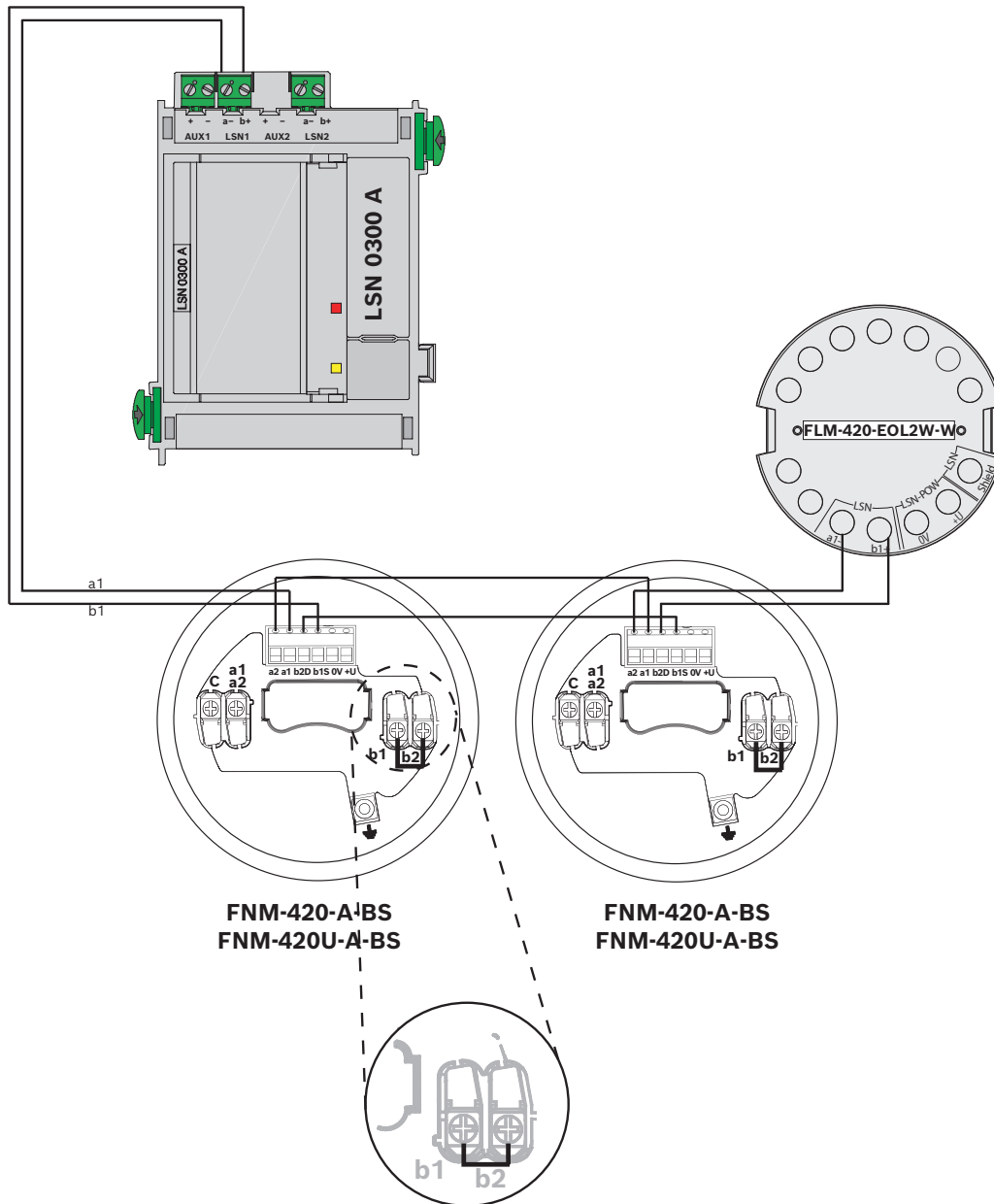


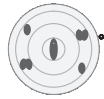


FNM-420-A-BS
FNM-420U-A-BS



ELS

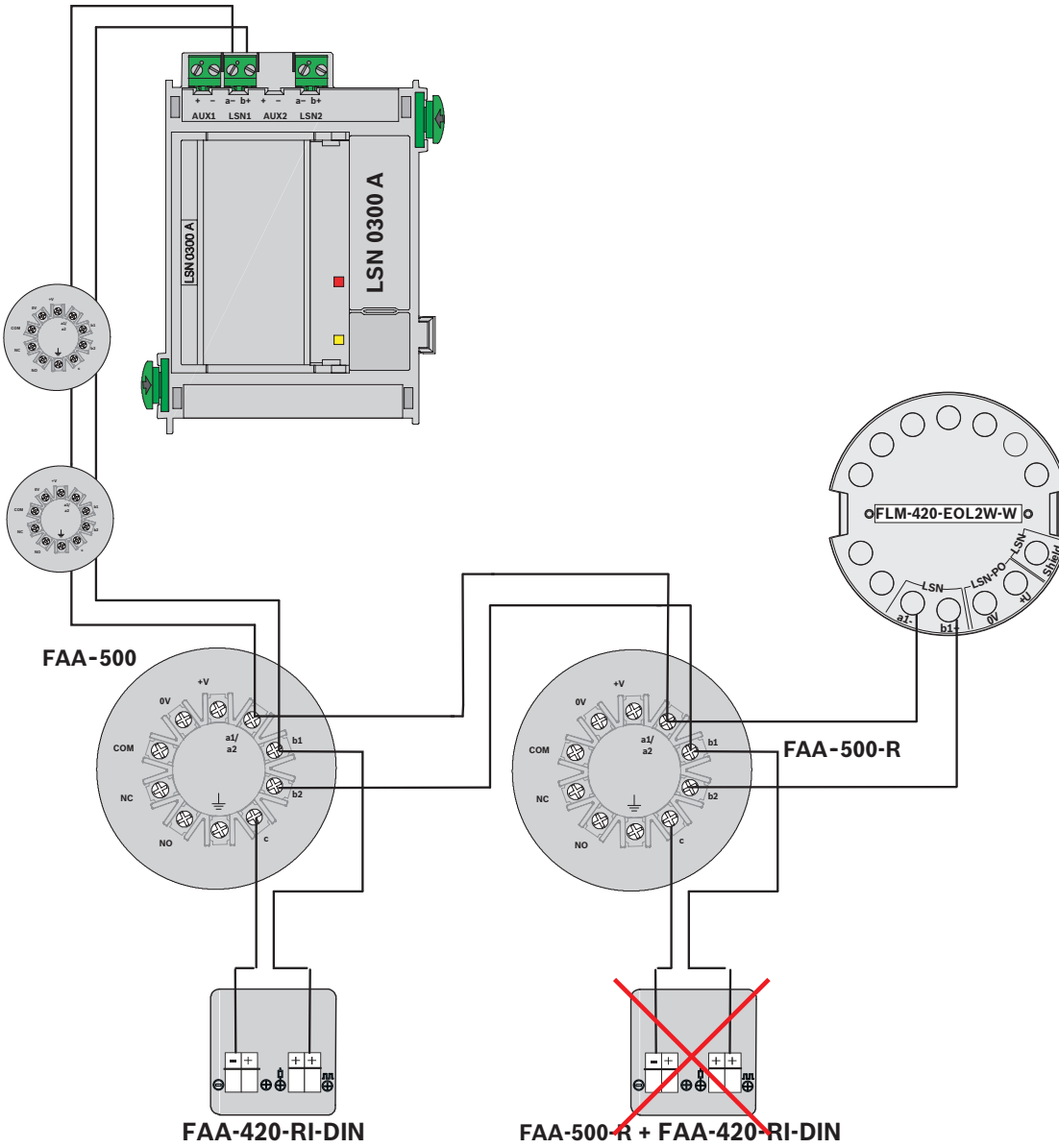


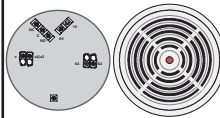


FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

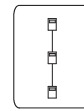


ELS

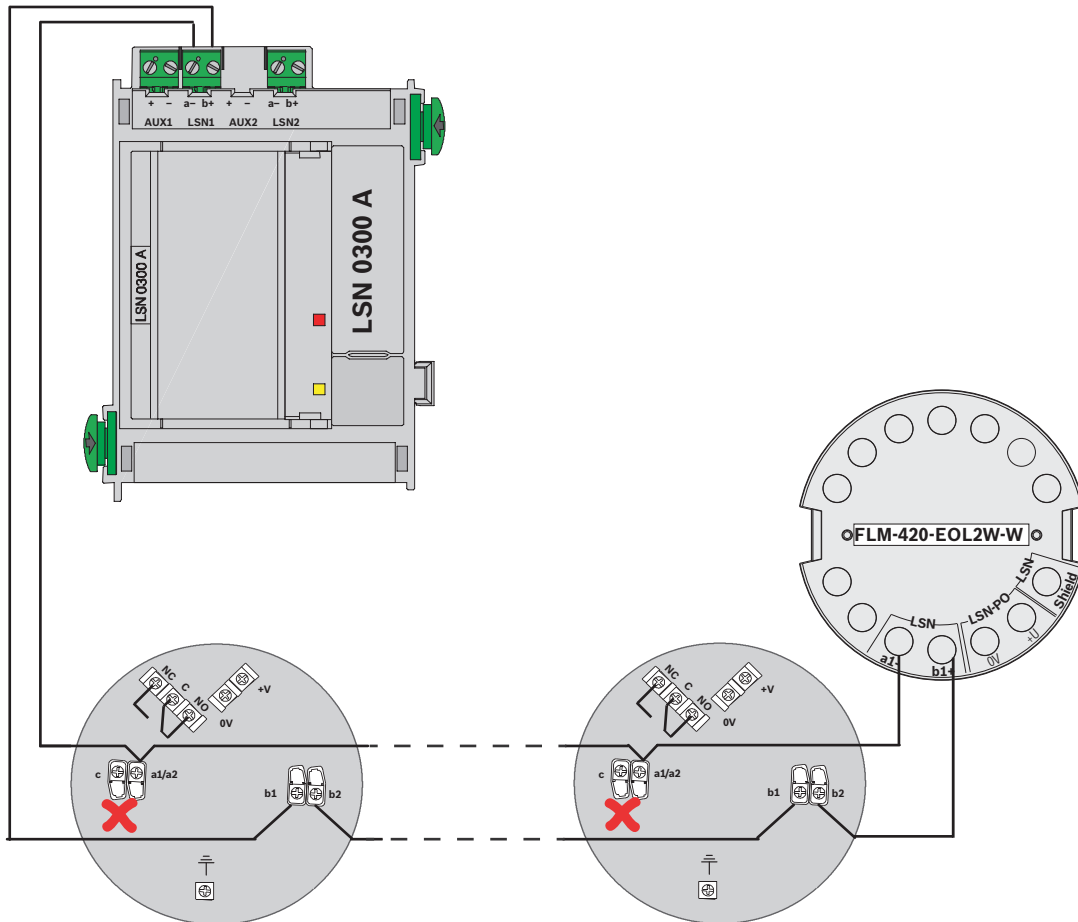


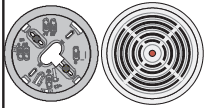


FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R

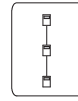


ELS

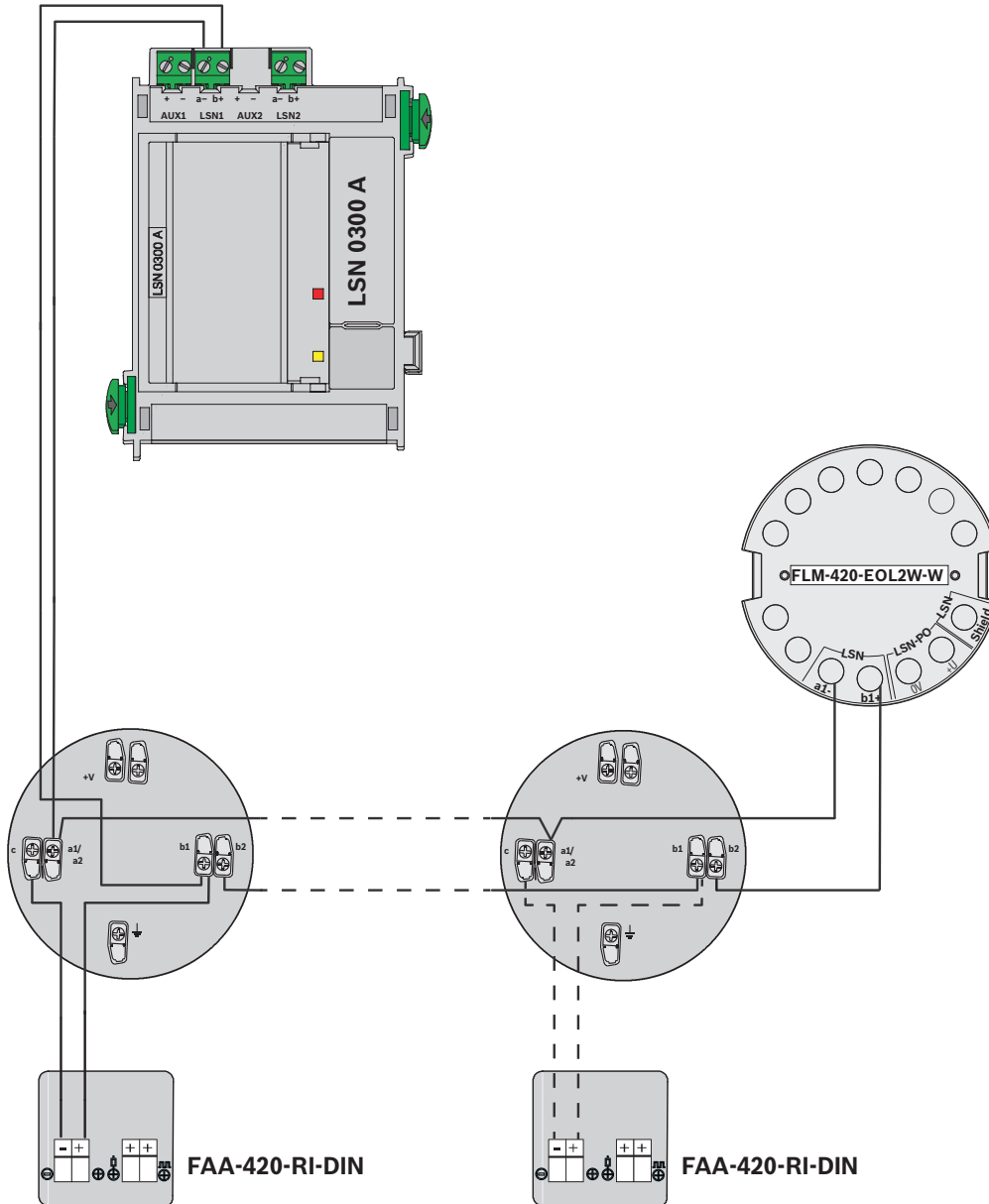


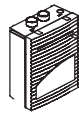


MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R

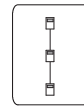


ELS

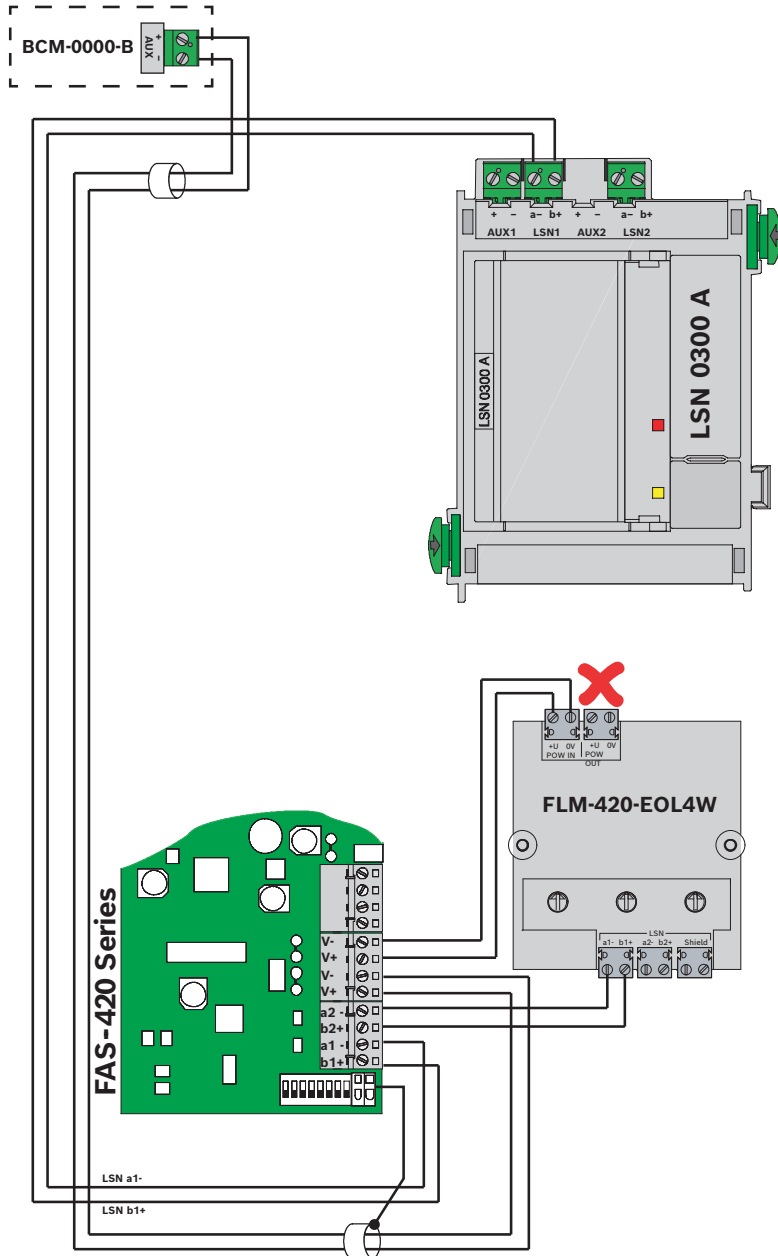


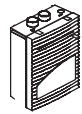


FAS-420 Series

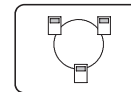


ELS

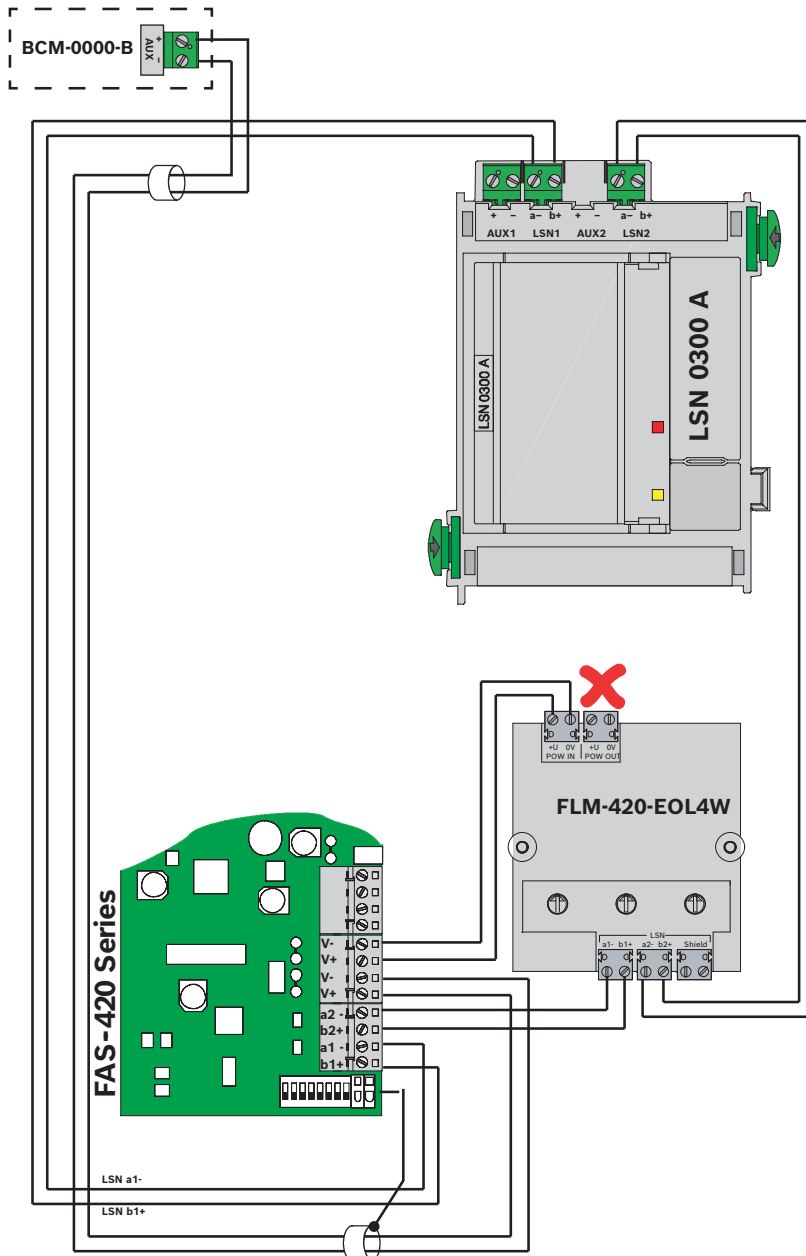


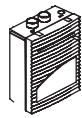


FAS-420 Series

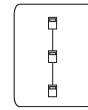


ELS

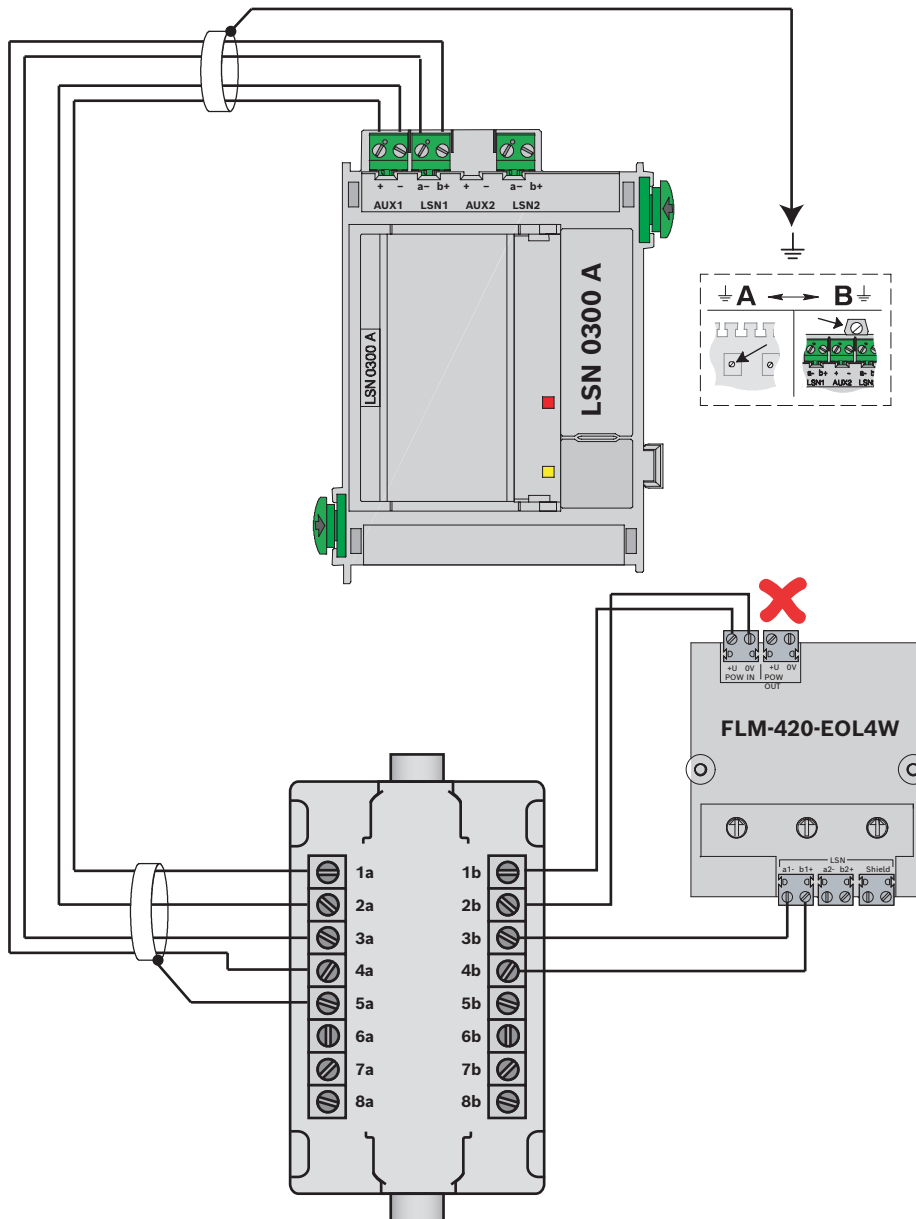


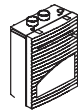


FAS-420-TM Series

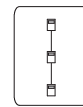


ELS

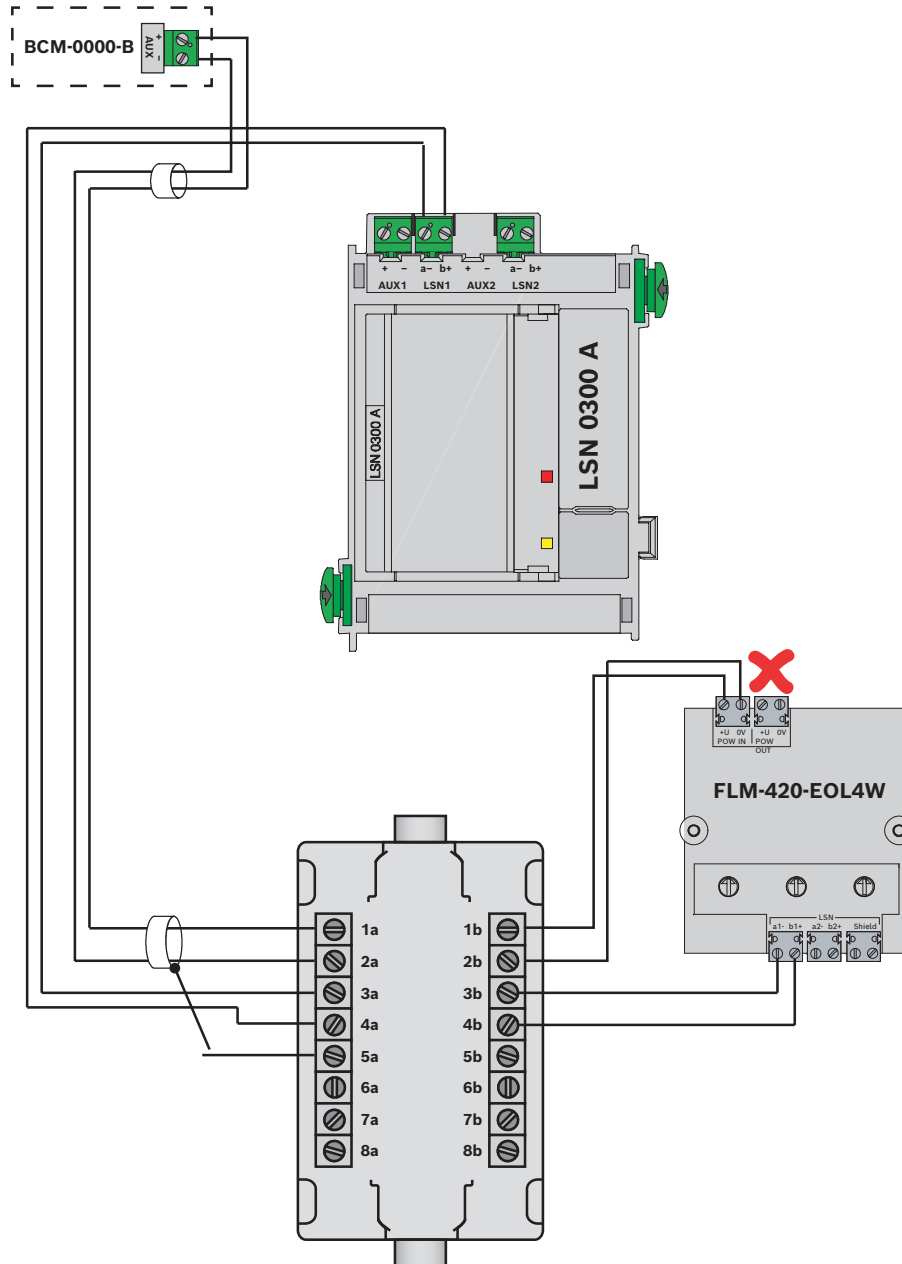


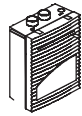


FAS-420-TM Series

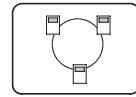


ELS

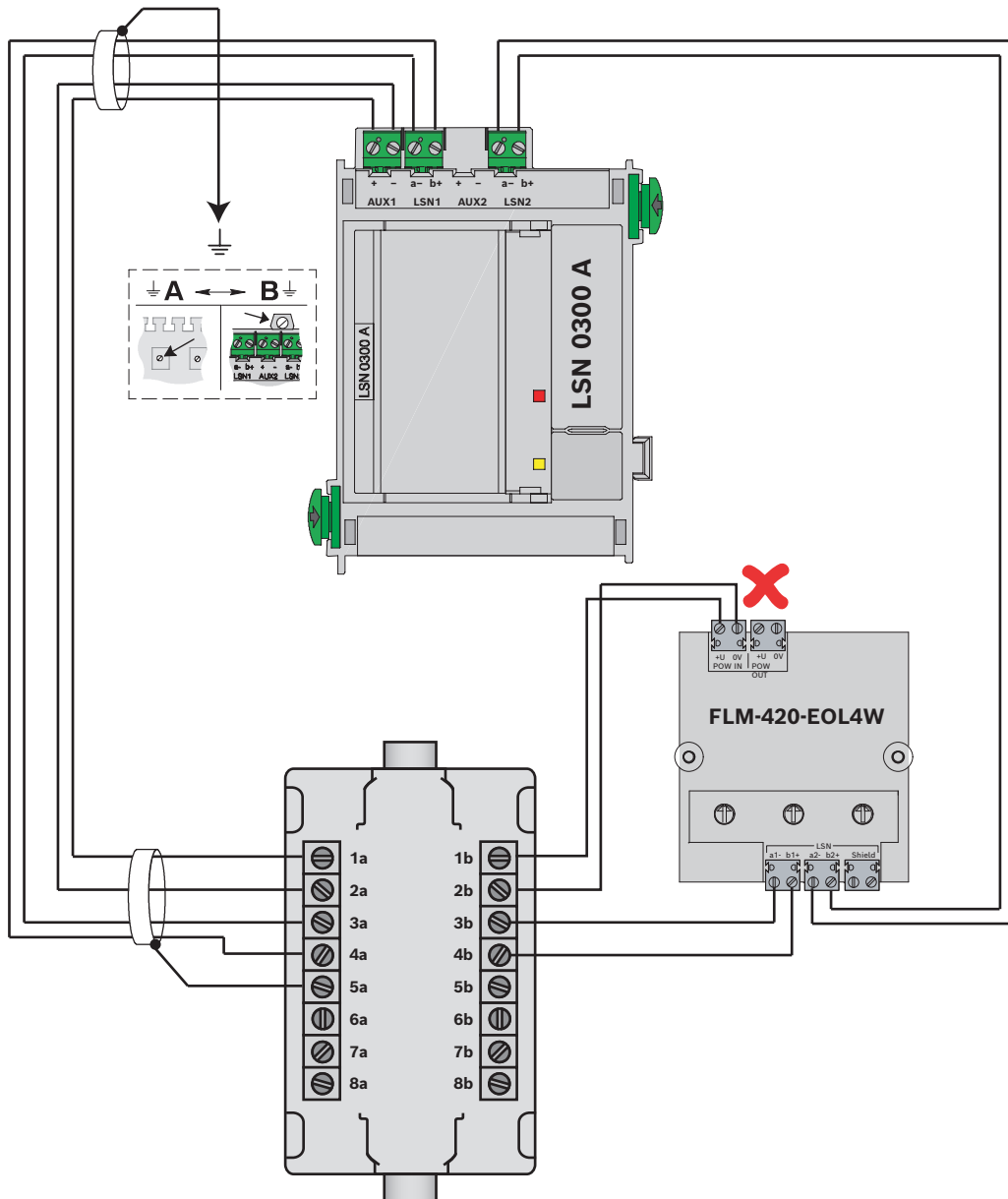


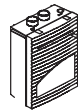


FAS-420-TM Series

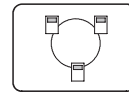


ELS

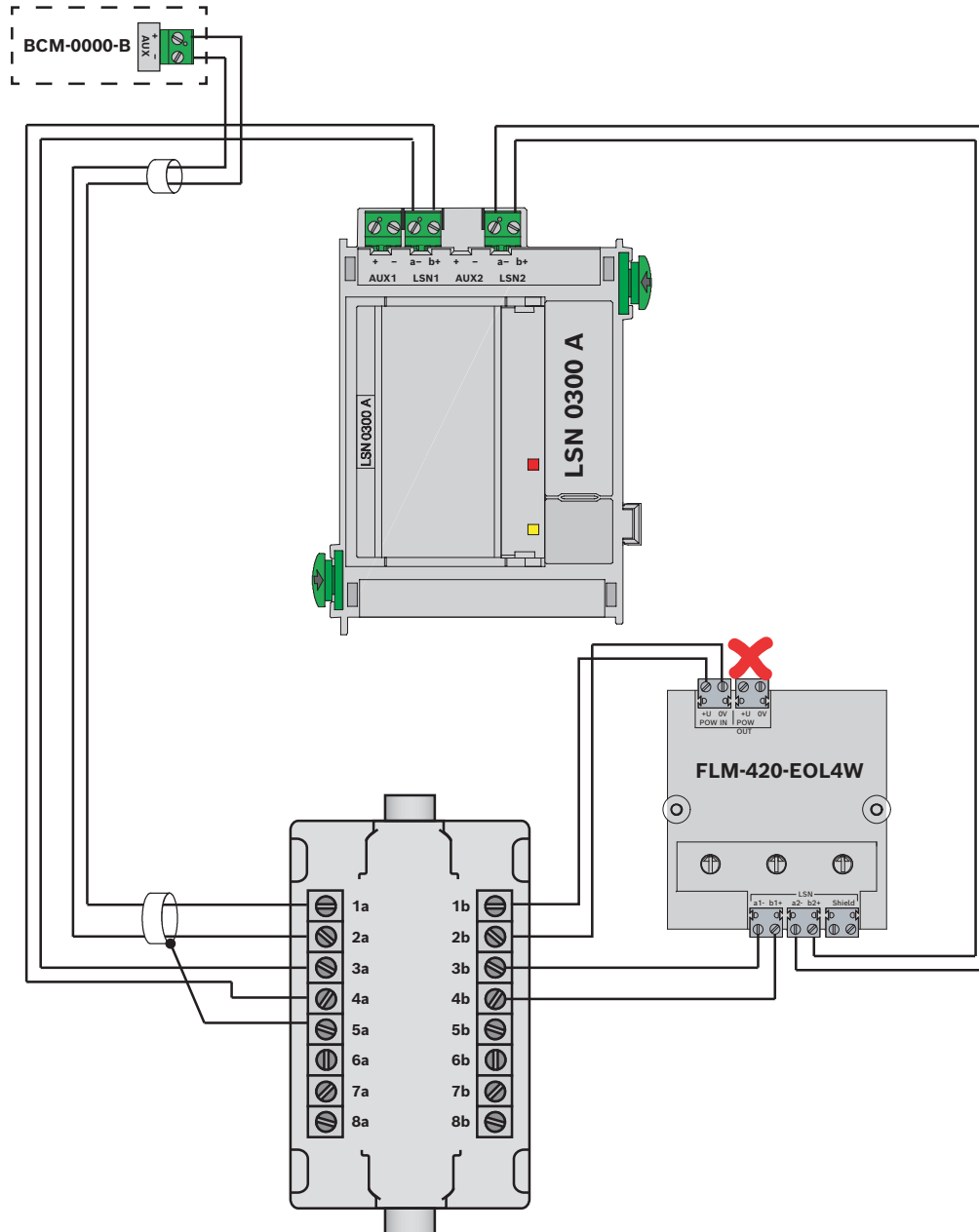




FAS-420-TM Series

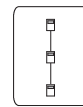


ELS

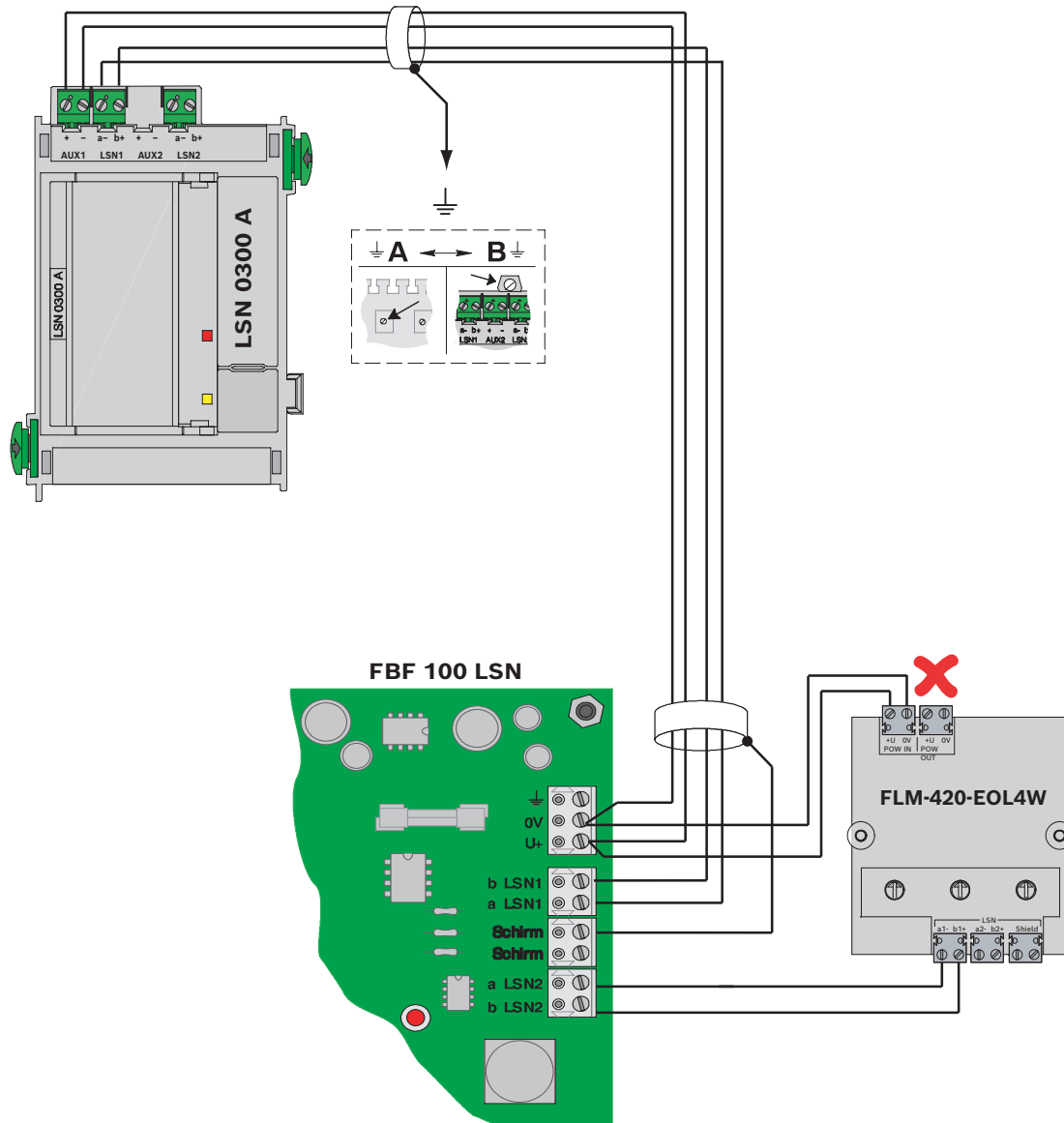




FBF 100 LSN

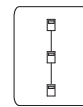


ELS

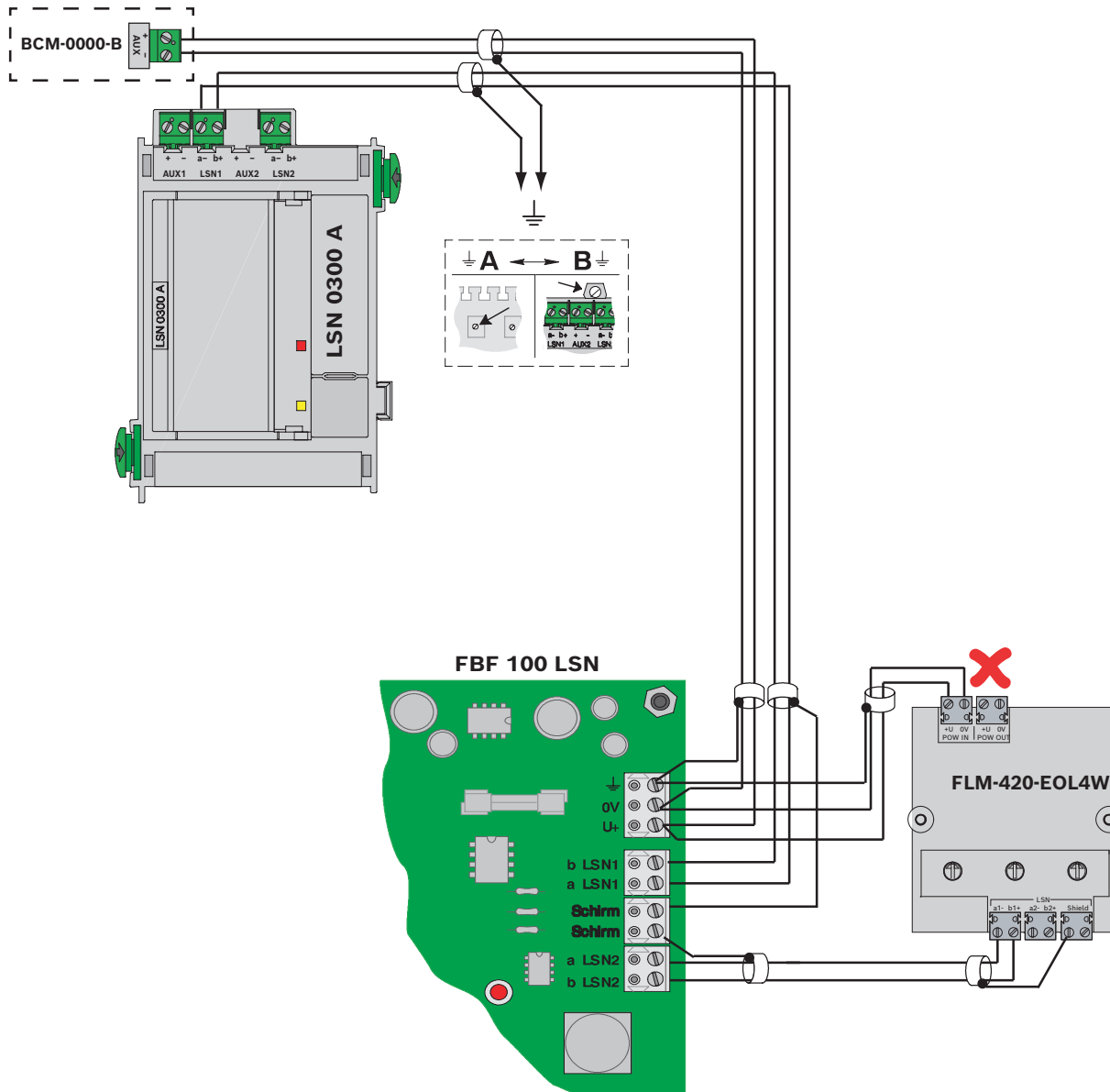




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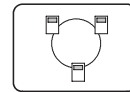


ELS

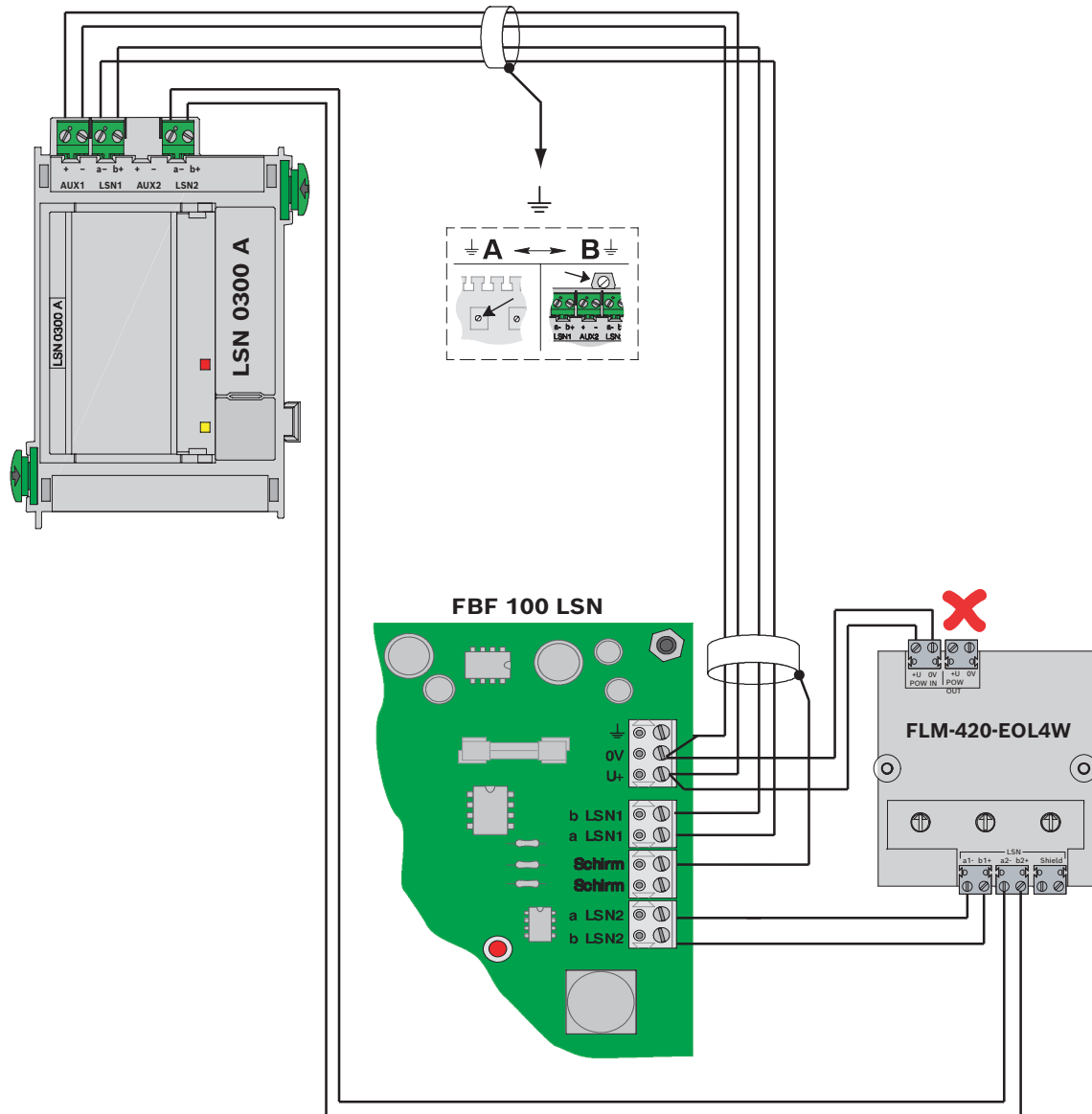


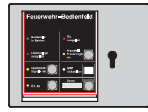


FBF 100 LSN

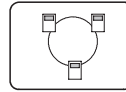


ELS

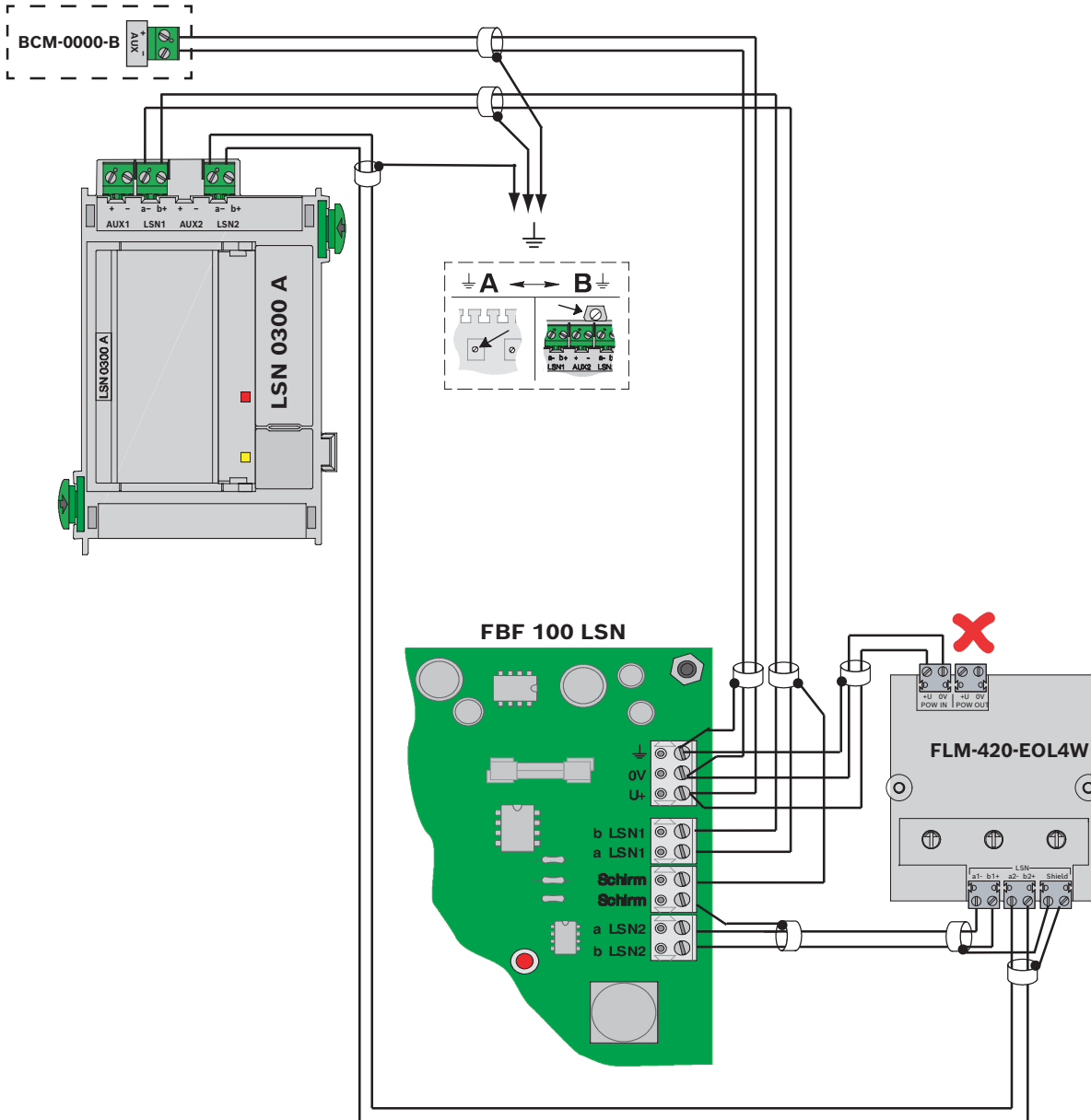


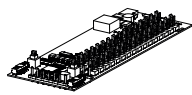


FBF 100 LSN

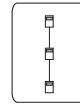


ELS

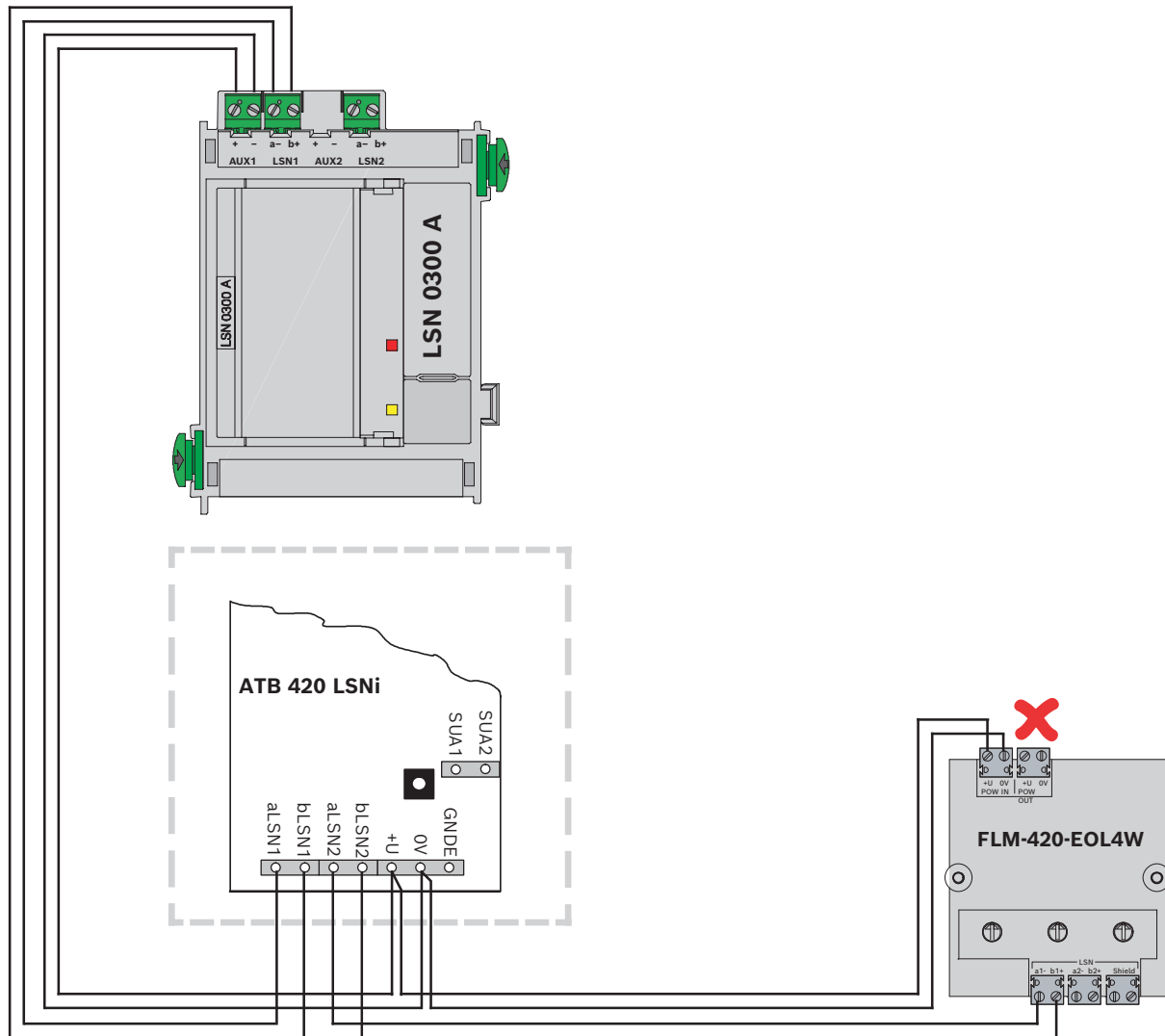


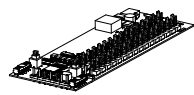


ATB 420 LSNi

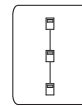


ELS

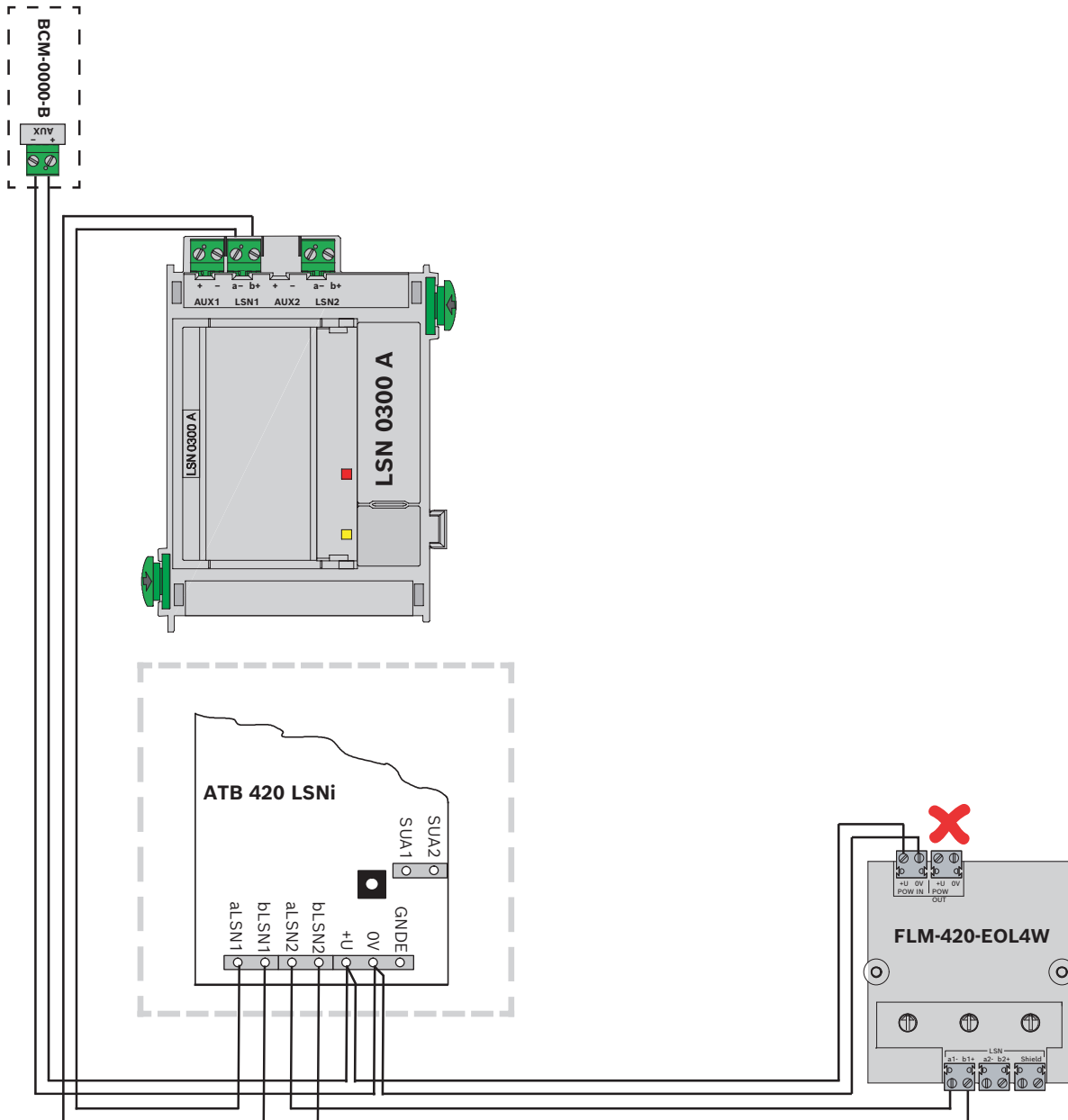


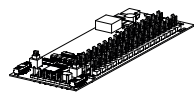


ATB 420 LSNi

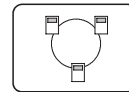


ELS

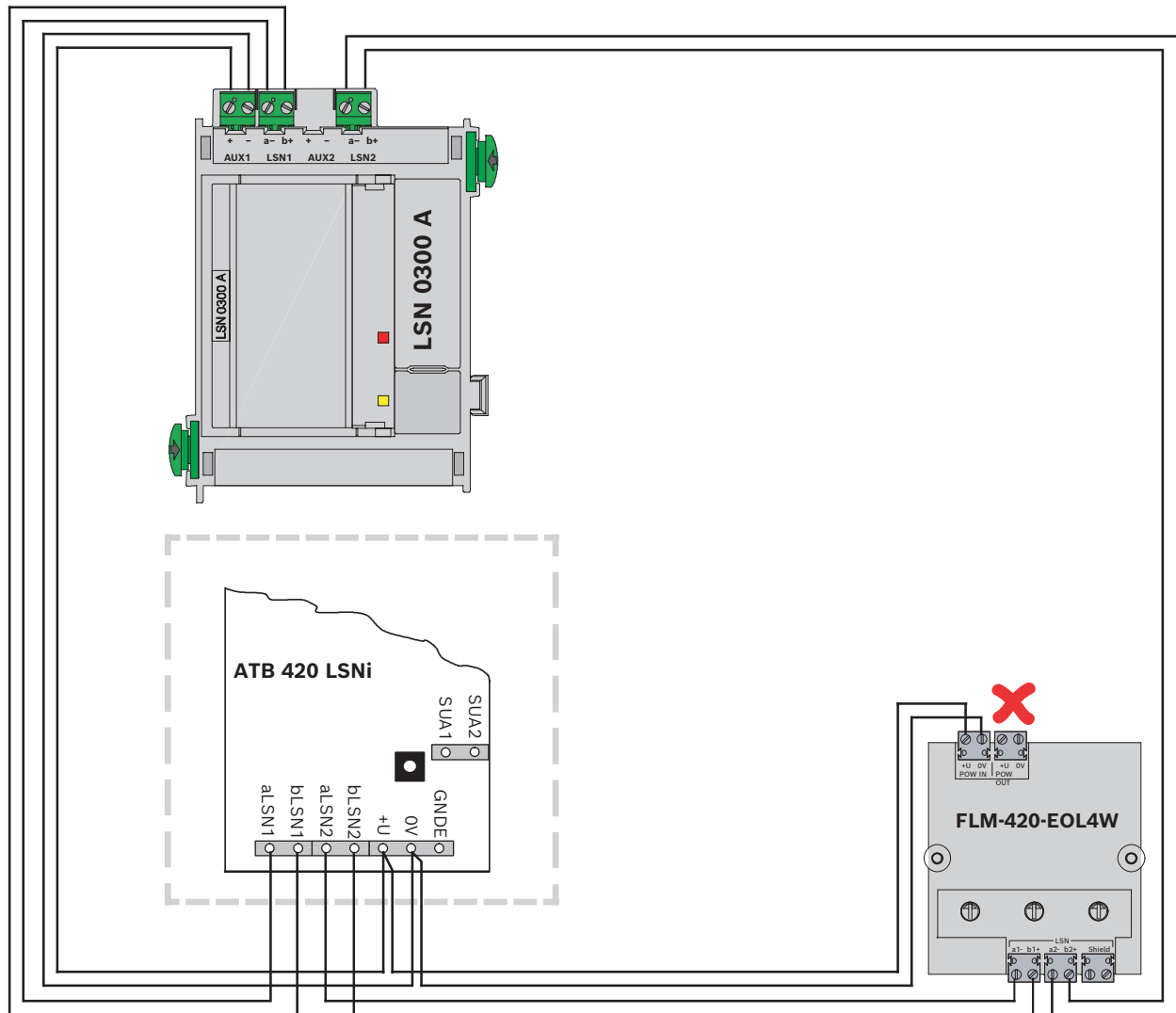


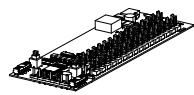


ATB 420 LSNi

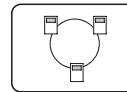


ELS

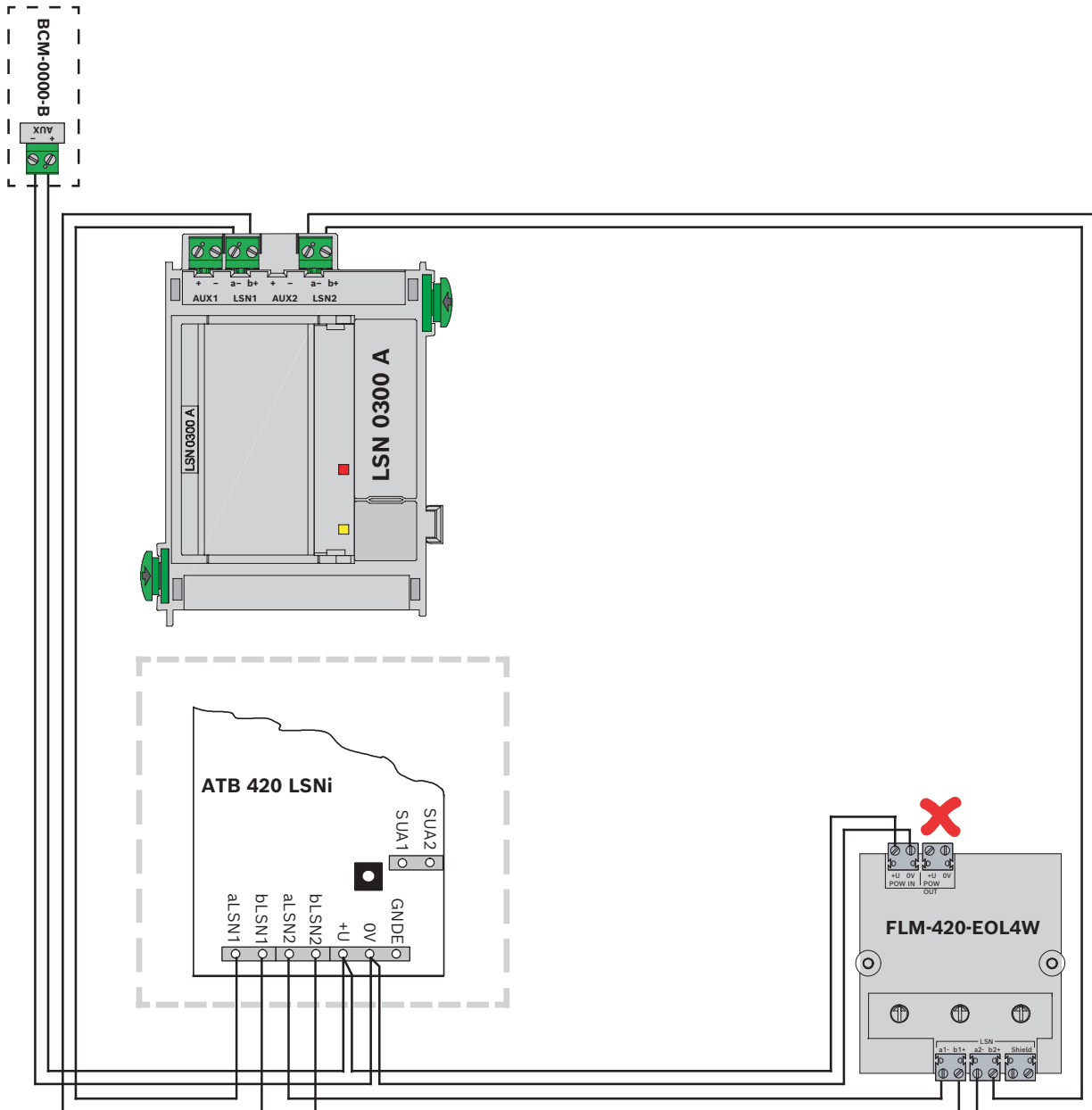




ATB 420 LSNi

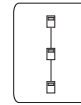


ELS

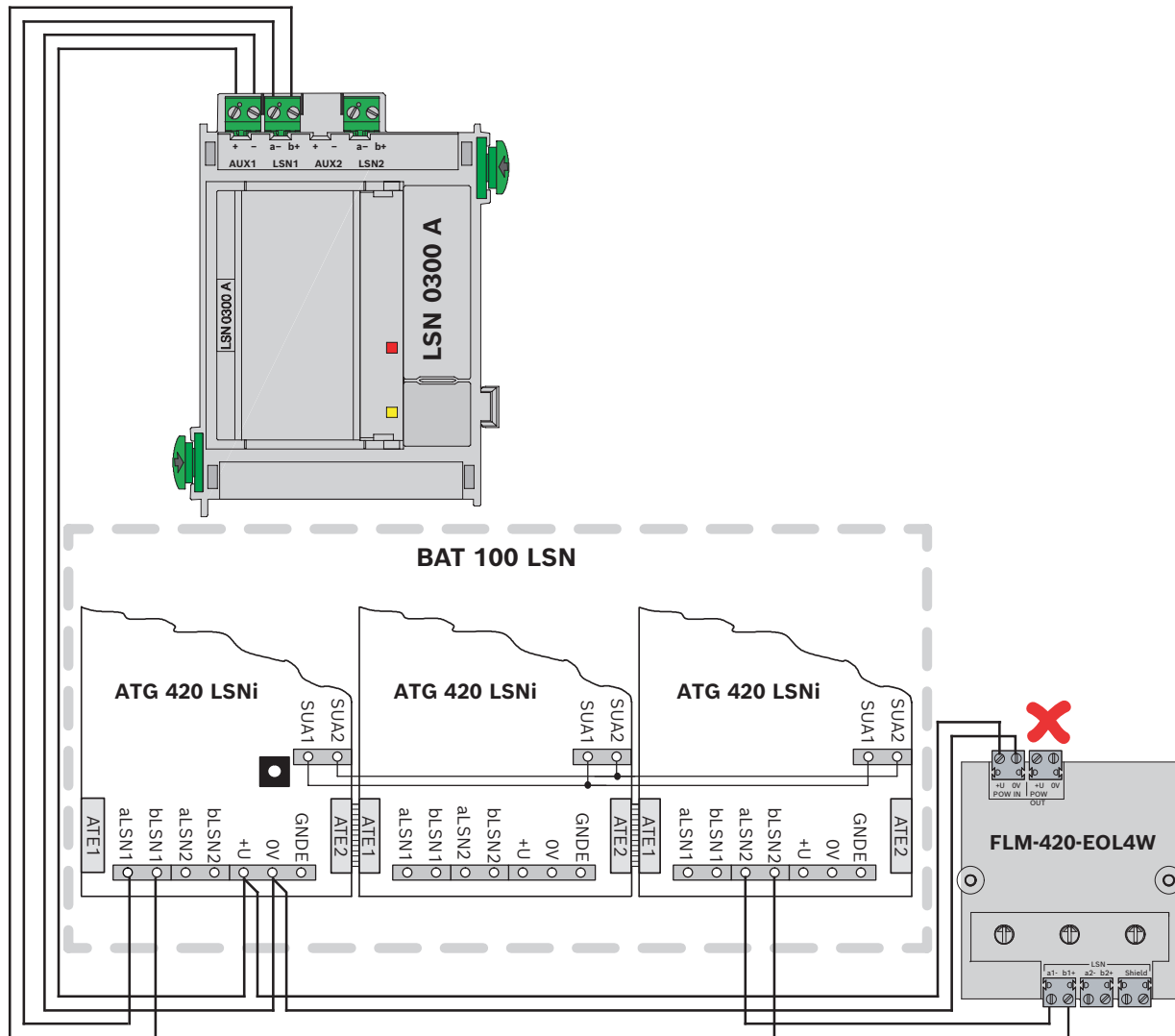




BAT 100 LSN
ATG 420 LSNi

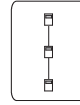


ELS

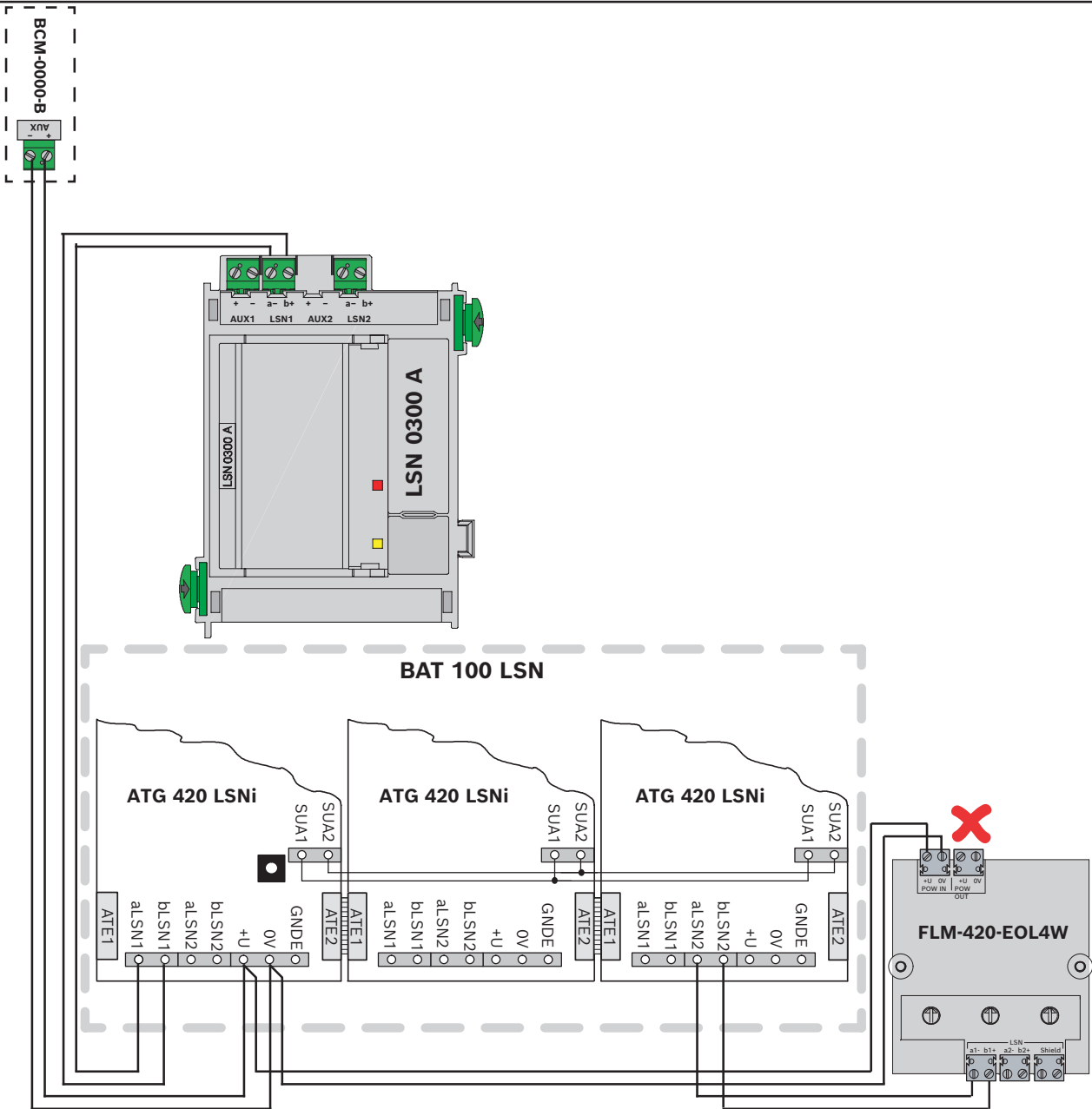




BAT 100 LSN
ATG 420 LSNi

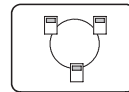


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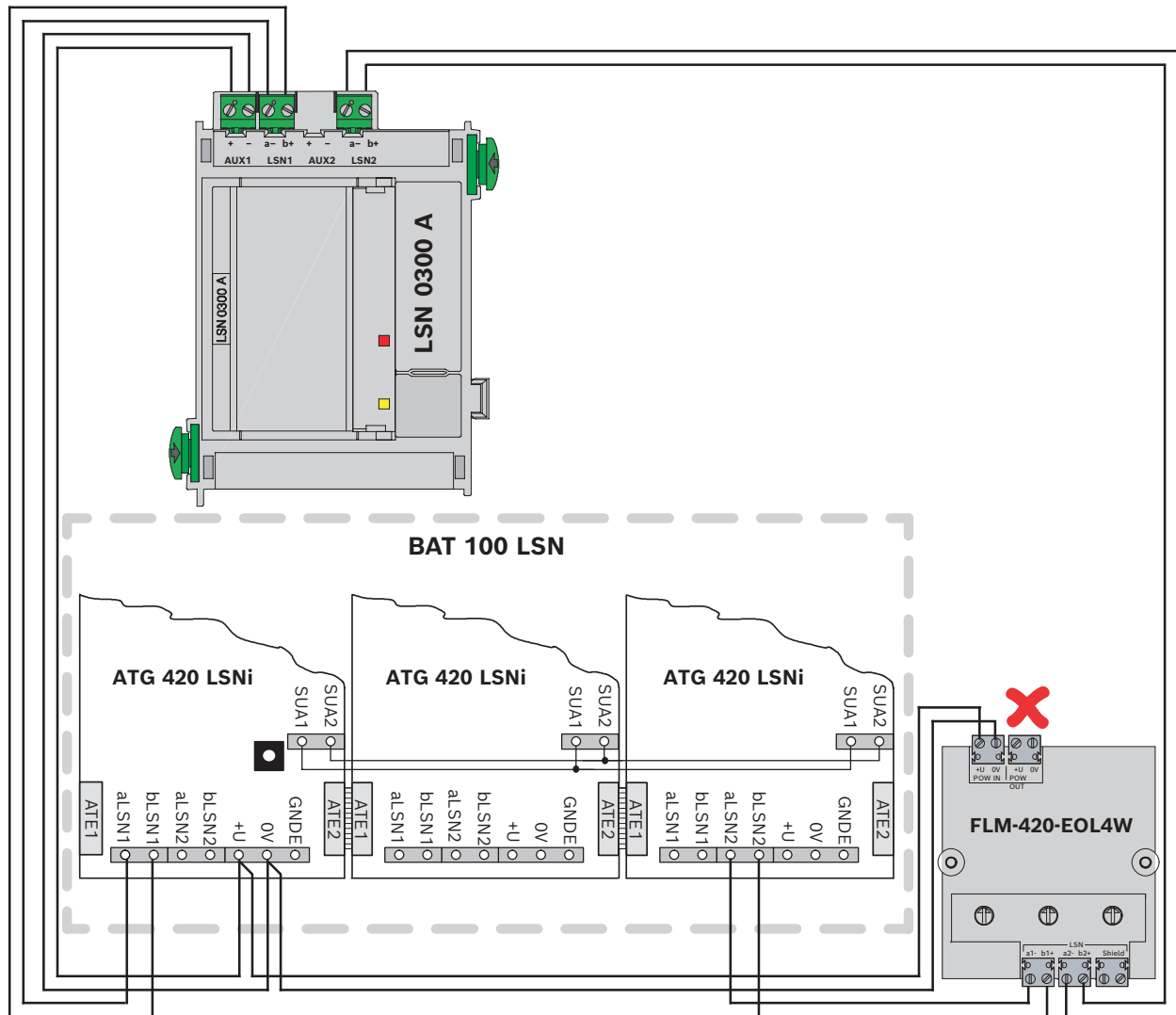




**BAT 100 LSN
ATG 420 LSNi**

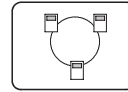


ELS

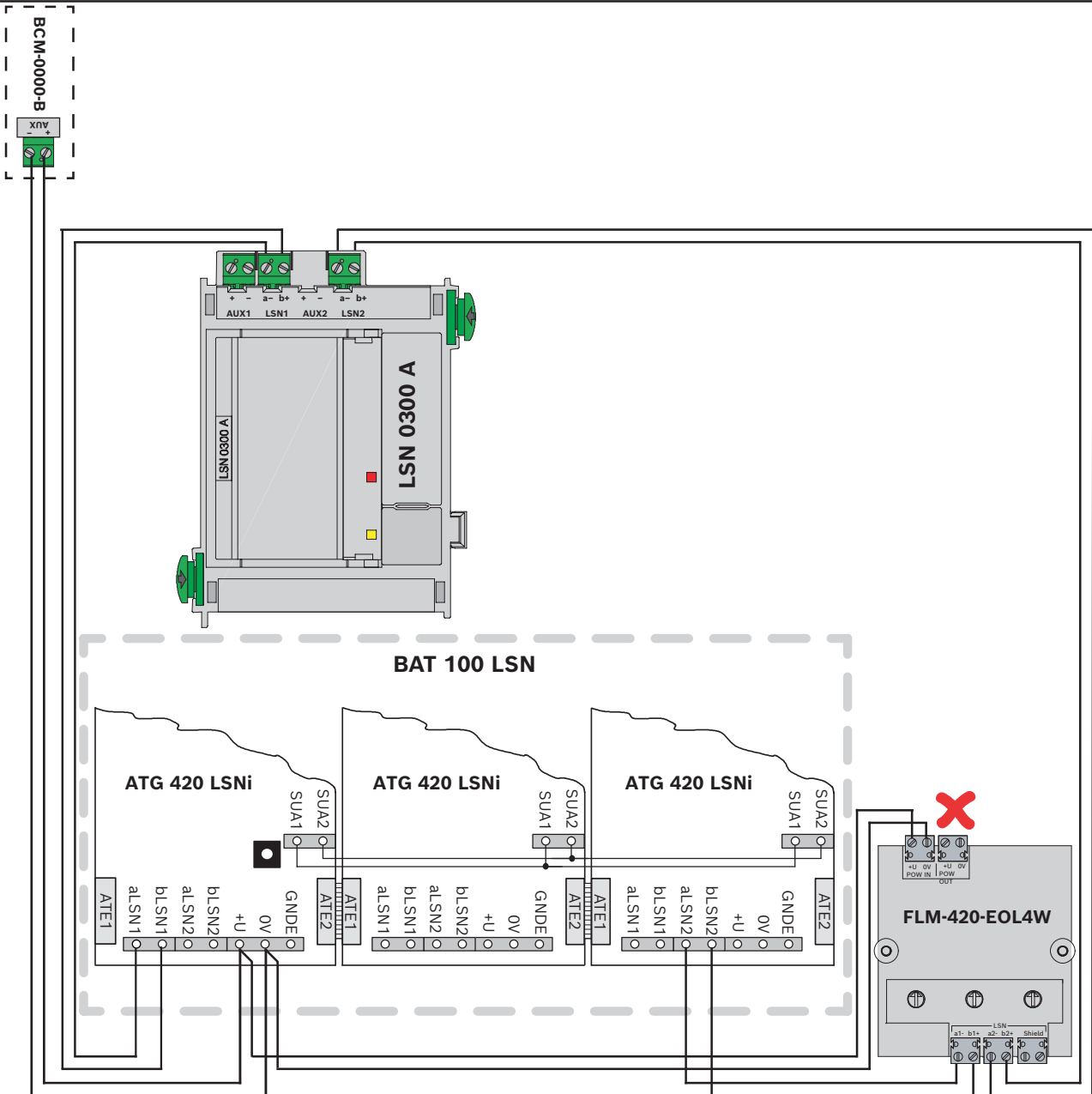




BAT 100 LSN
ATG 420 LSNi



ELS

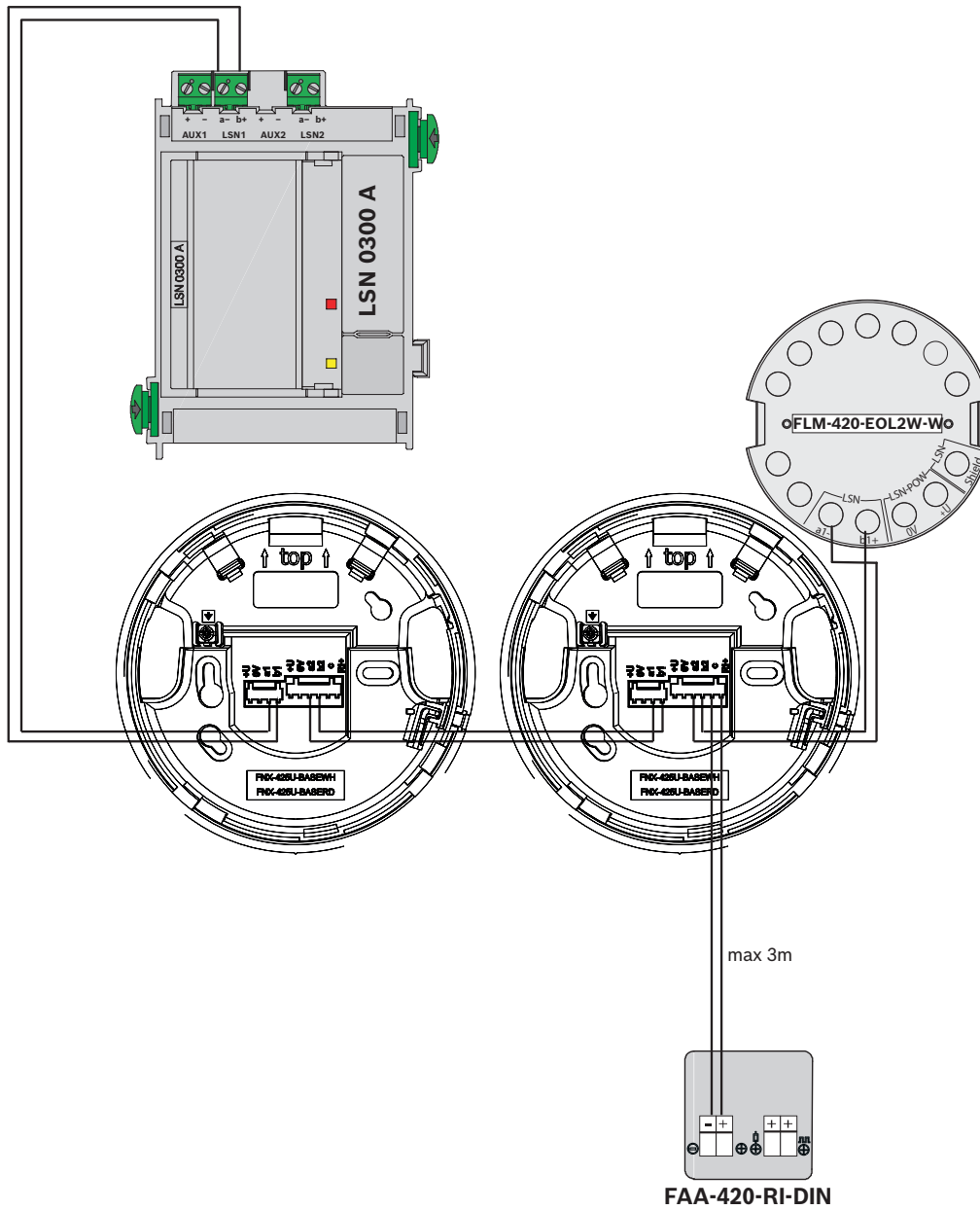




FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD



ELS



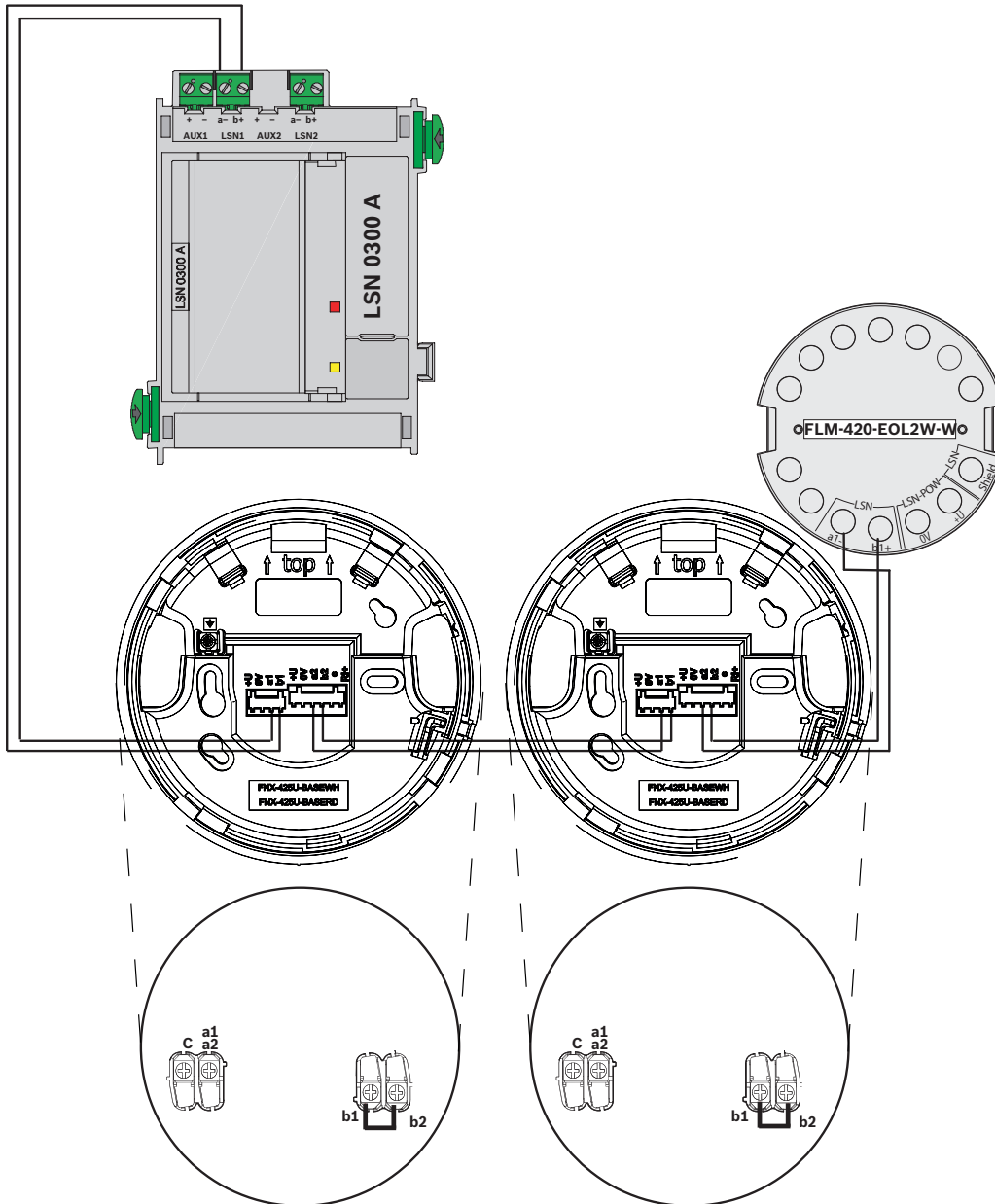


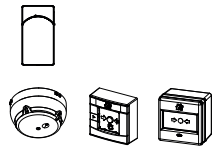
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

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



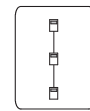
ELS



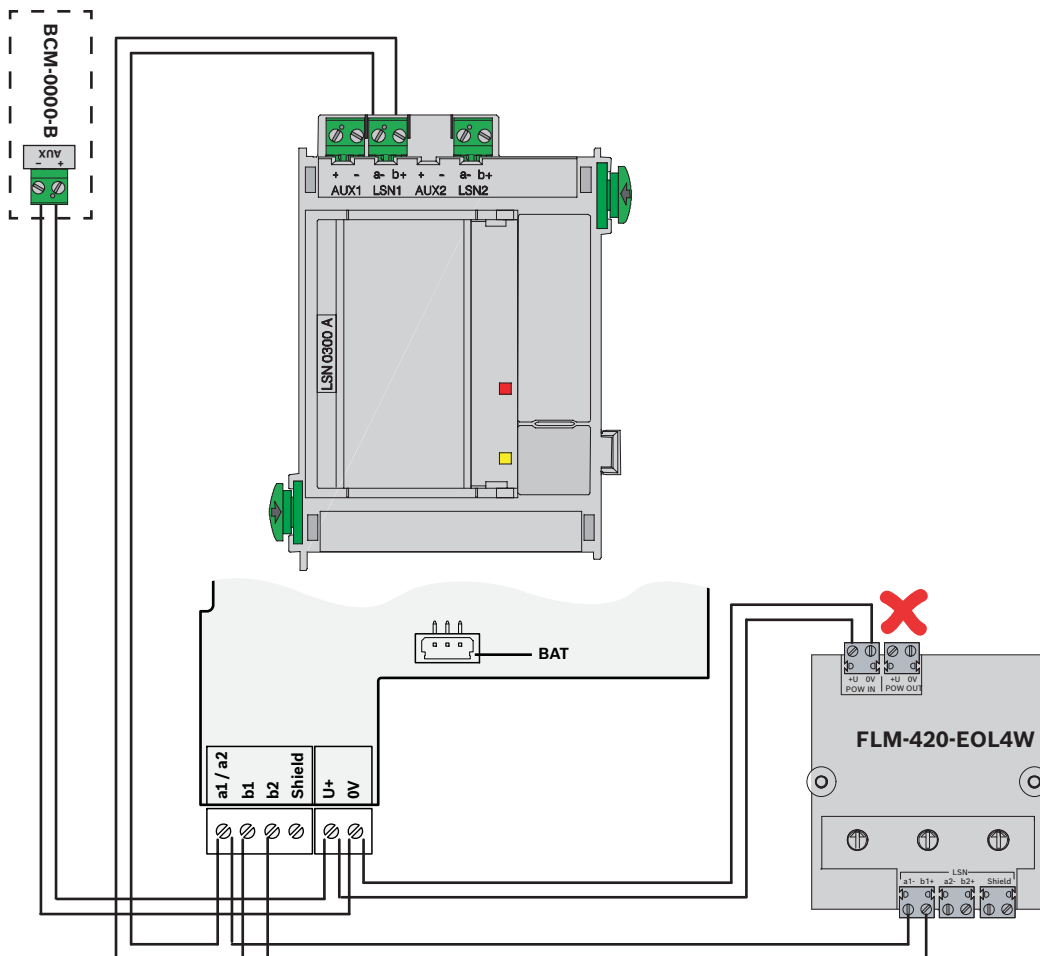


FWI-270

FDOOT271-O
FDM275-O
FDM273-O



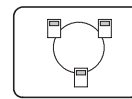
ELS



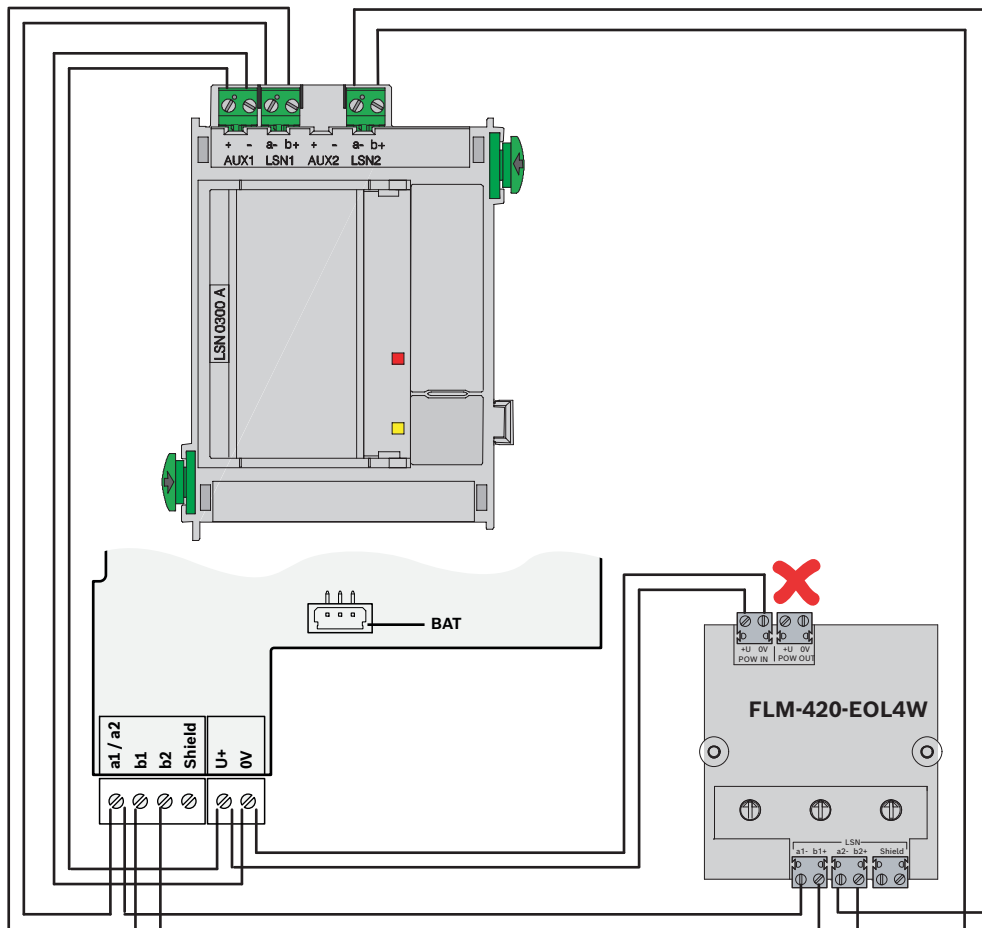


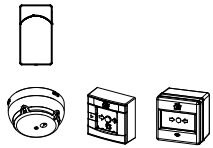
FWI-270

FDOOT271-O
FDM275-O
FDM273-O



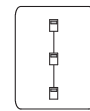
ELS



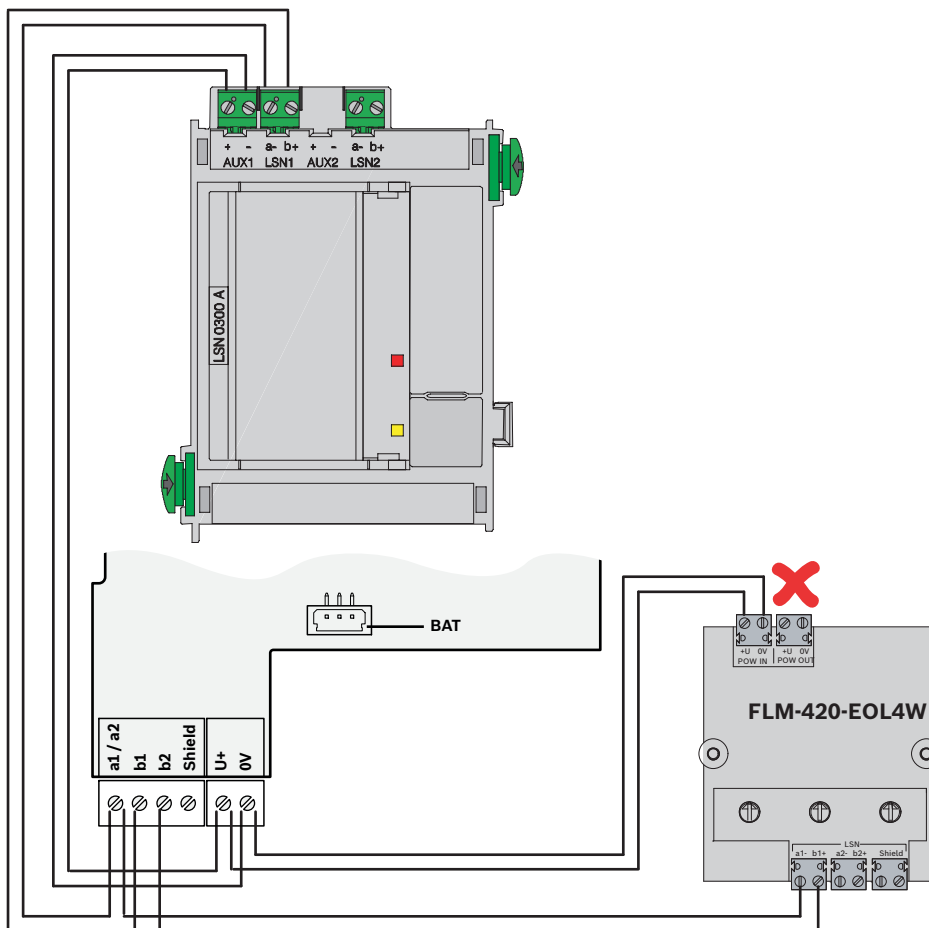


FWI-270

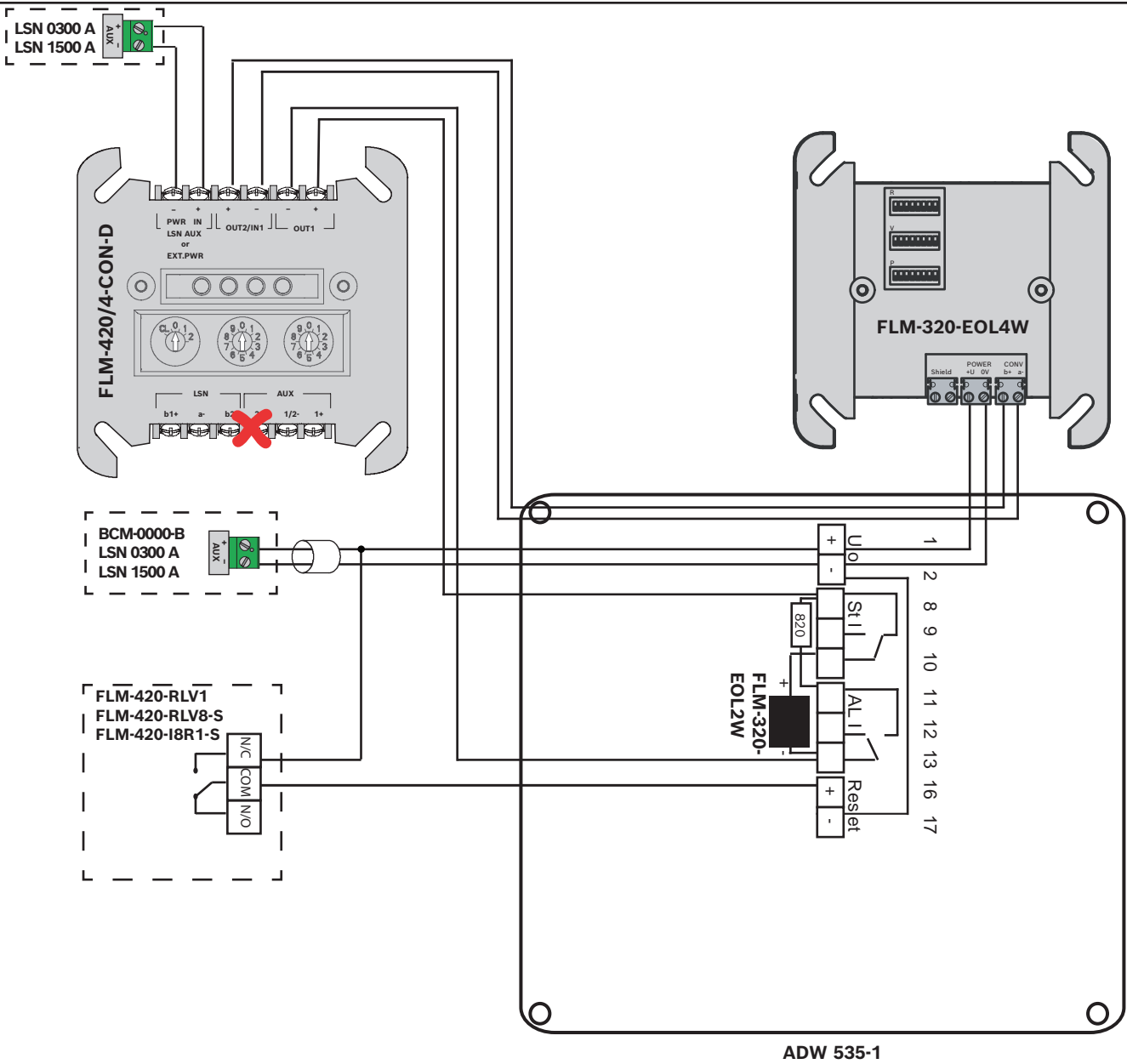
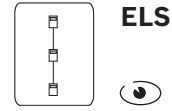
FDOOT271-O
FDM275-O
FDM273-O

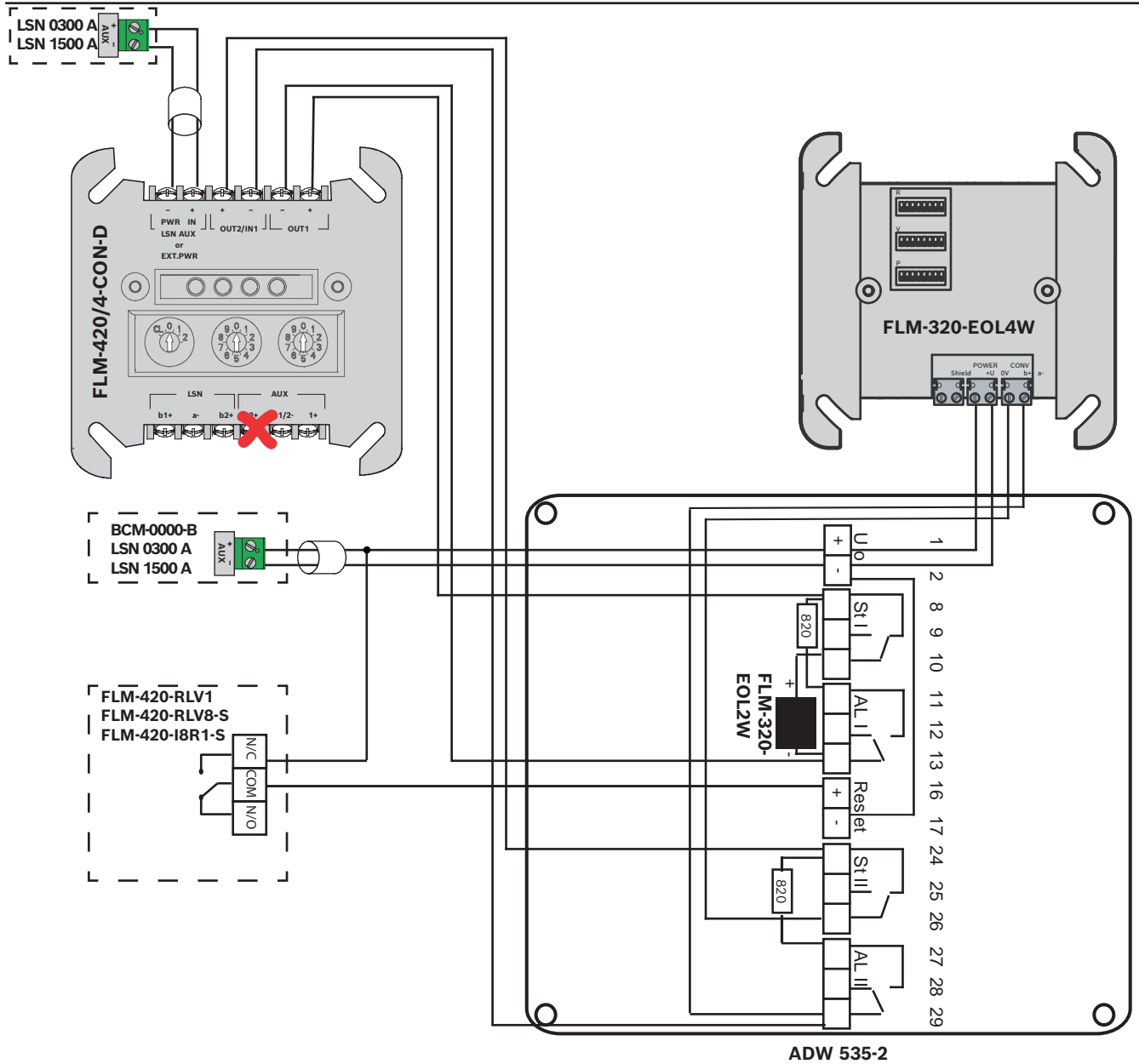
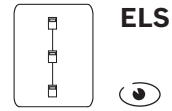


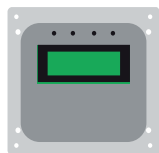
ELS



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



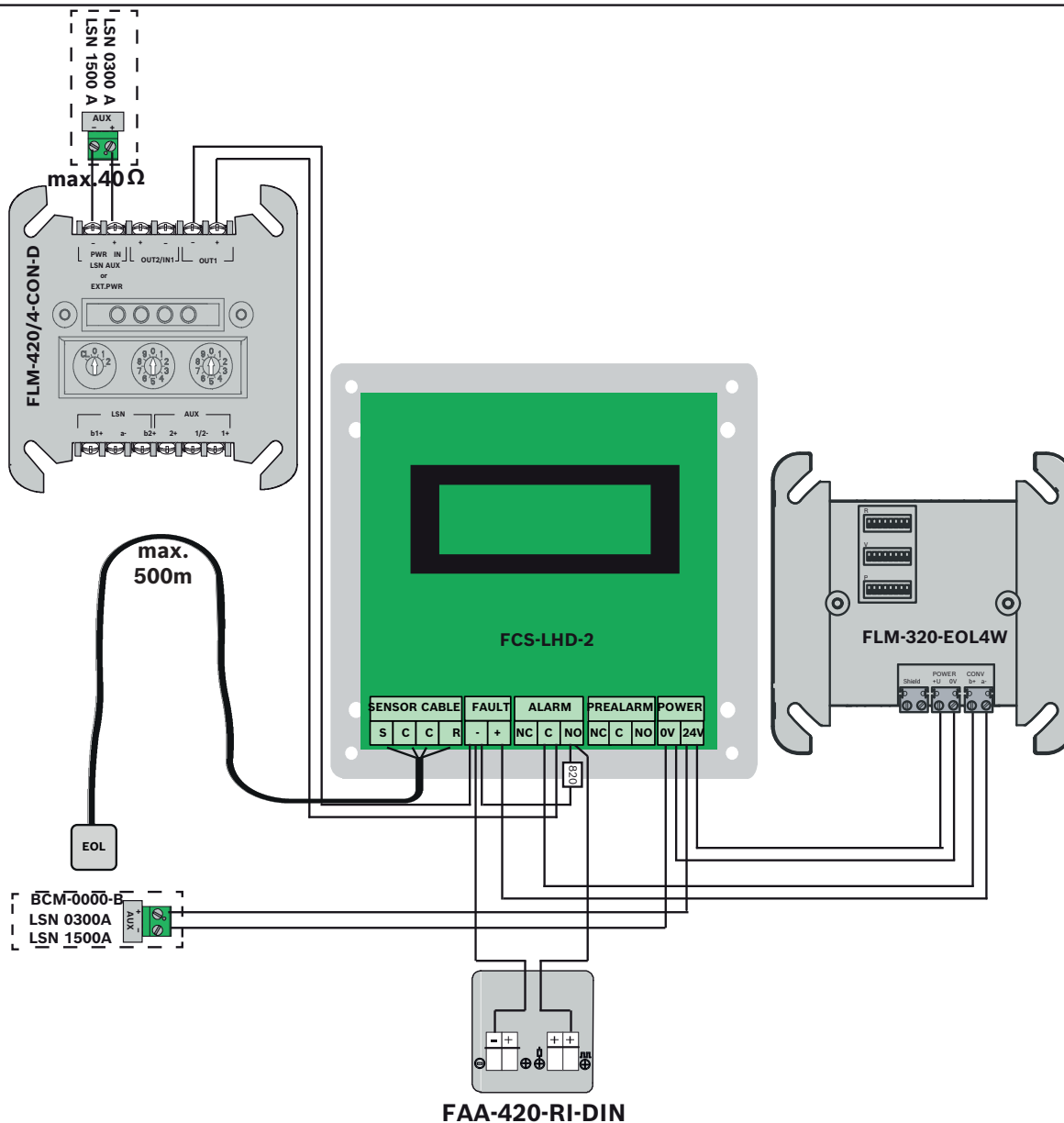




ALARMLINE II

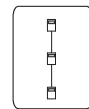


ELS

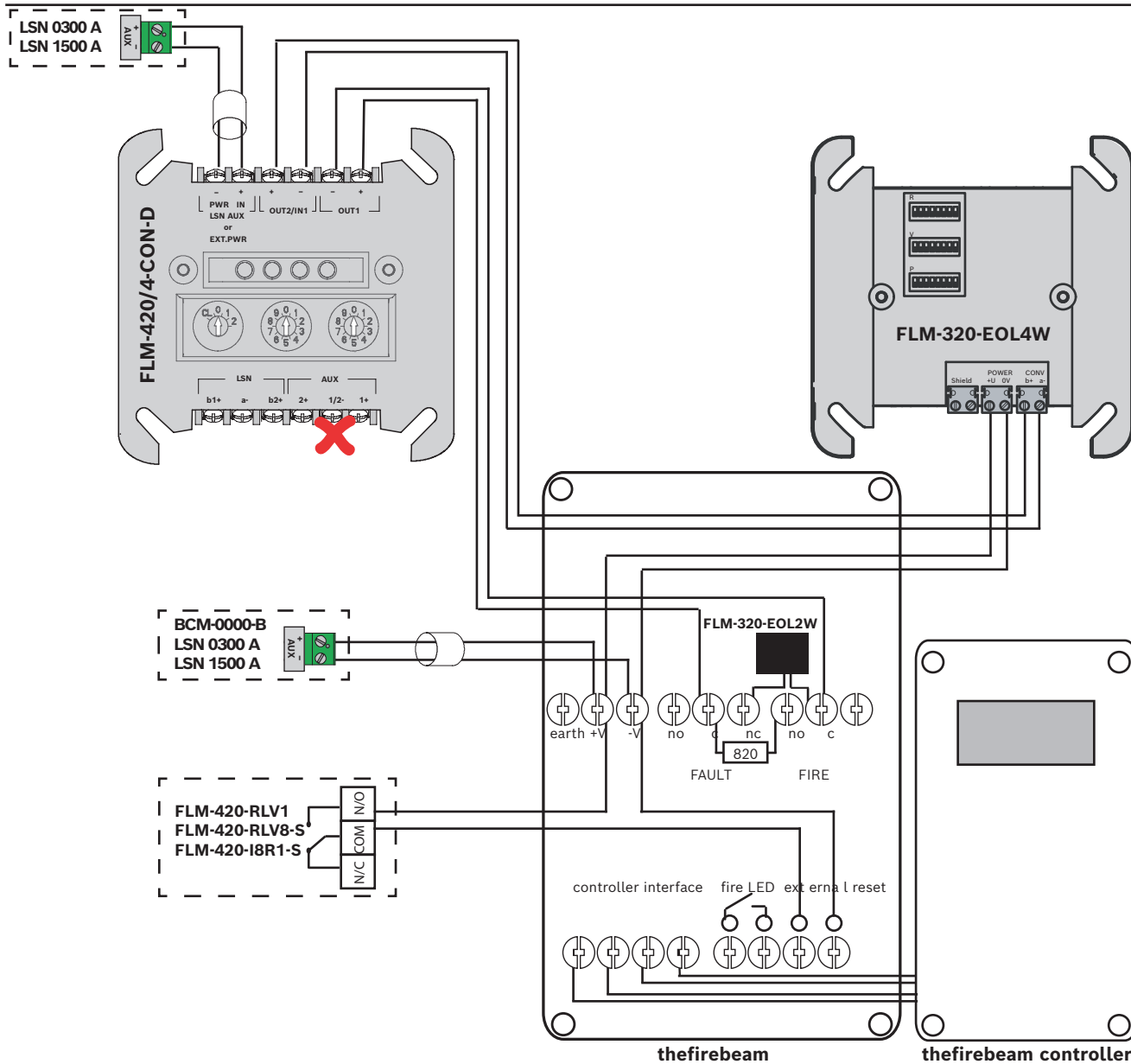


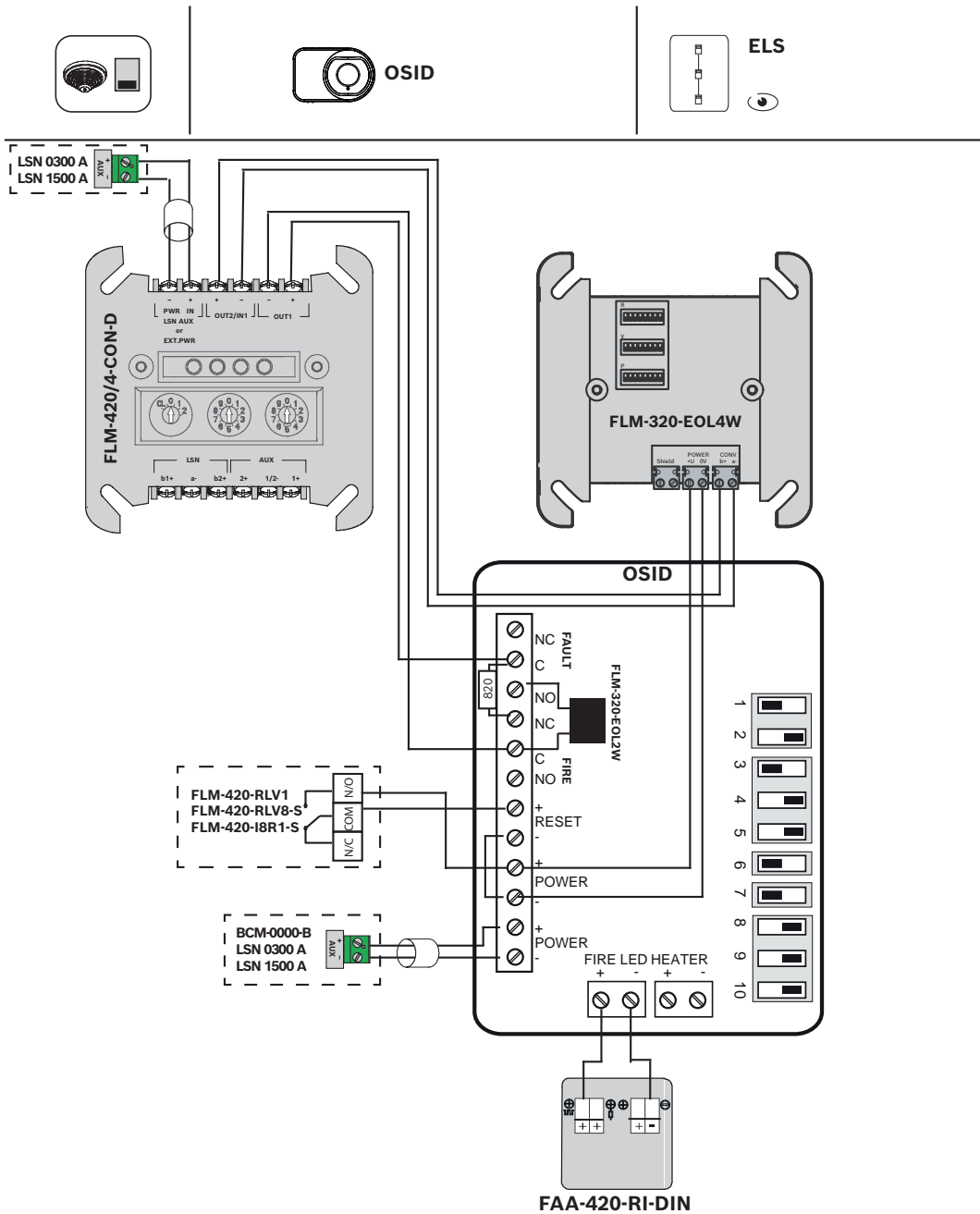


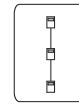
thefirebeam nano
thefirebeam standard
thefirebeam foveo



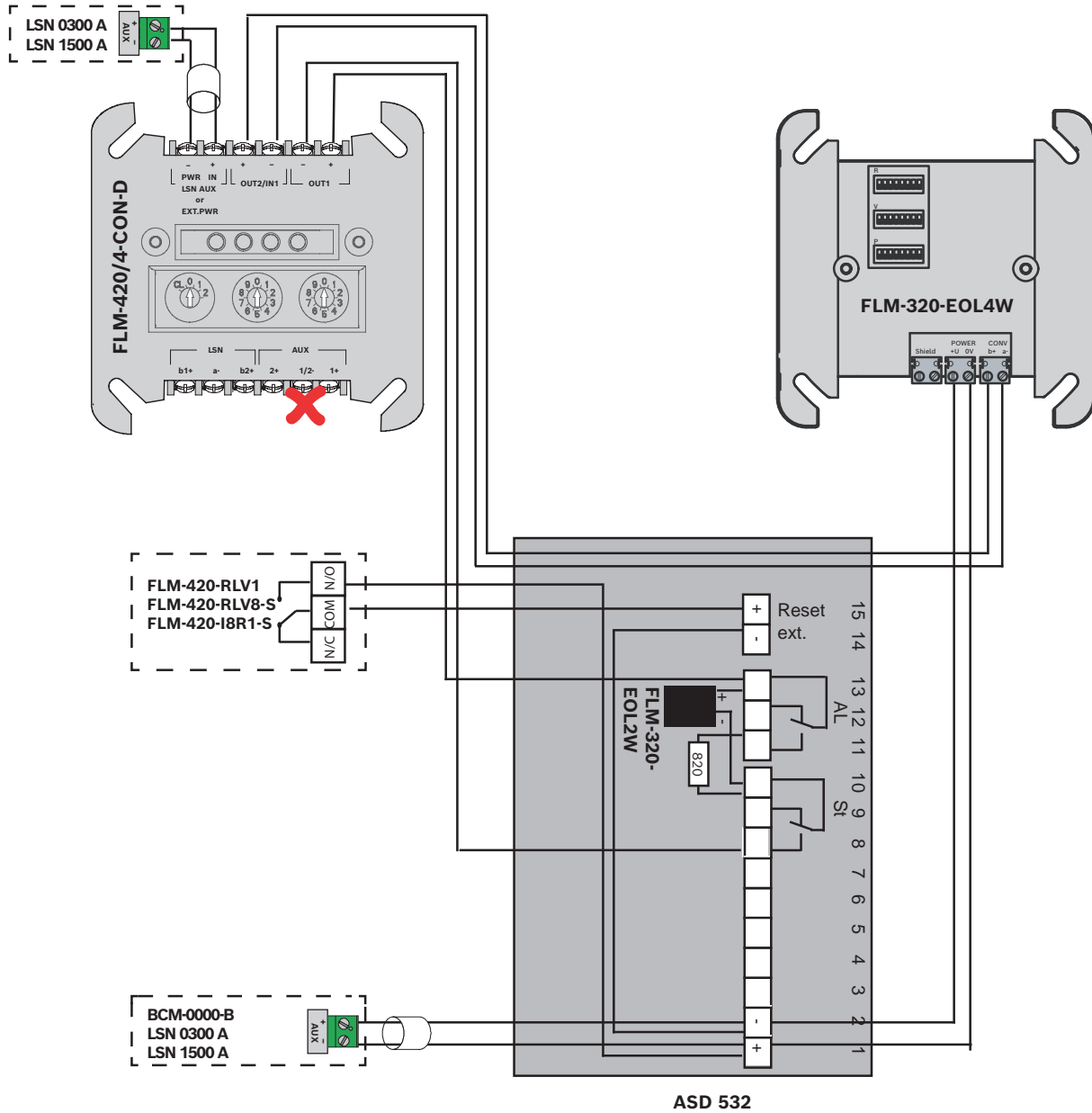
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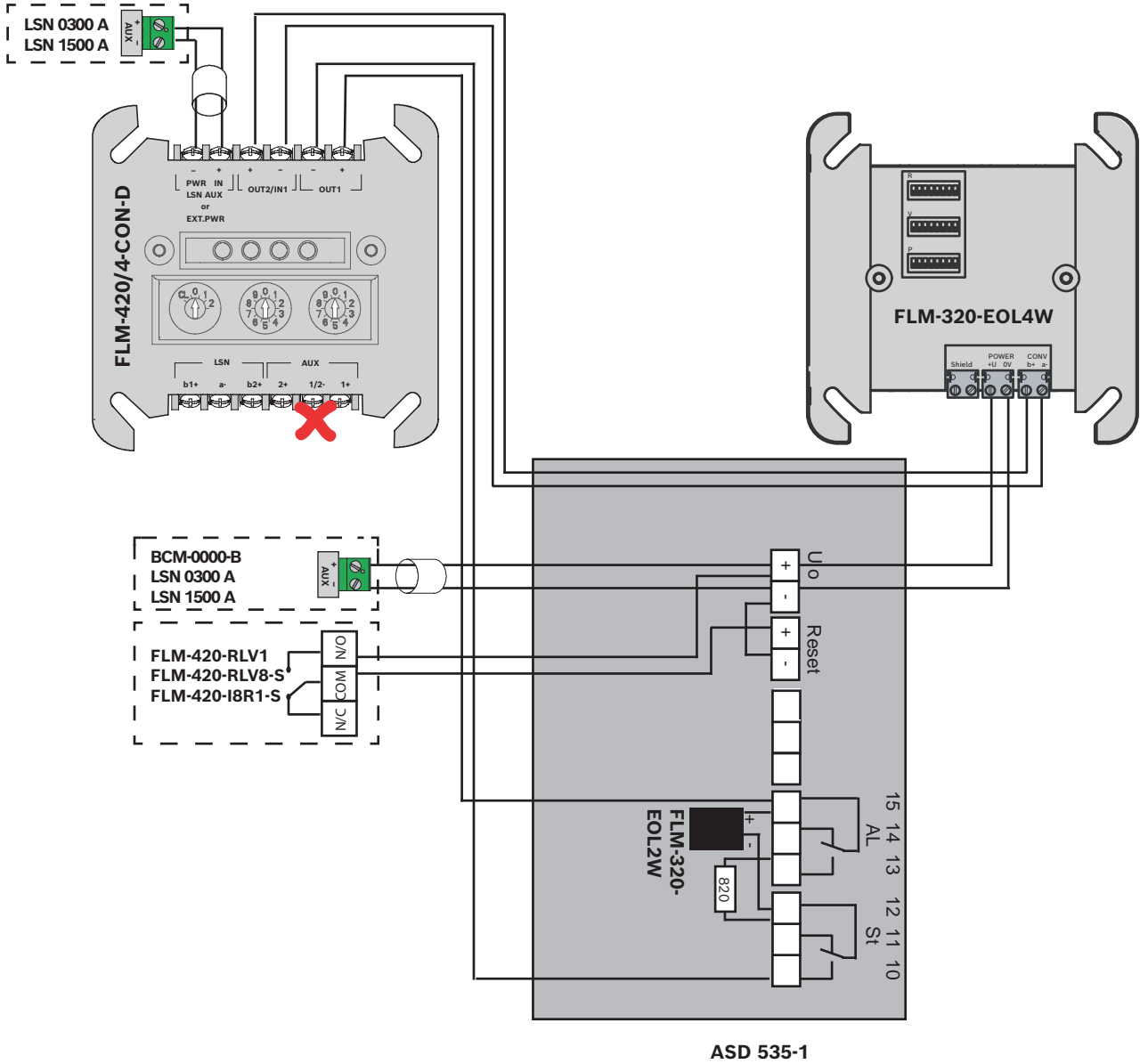
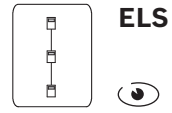


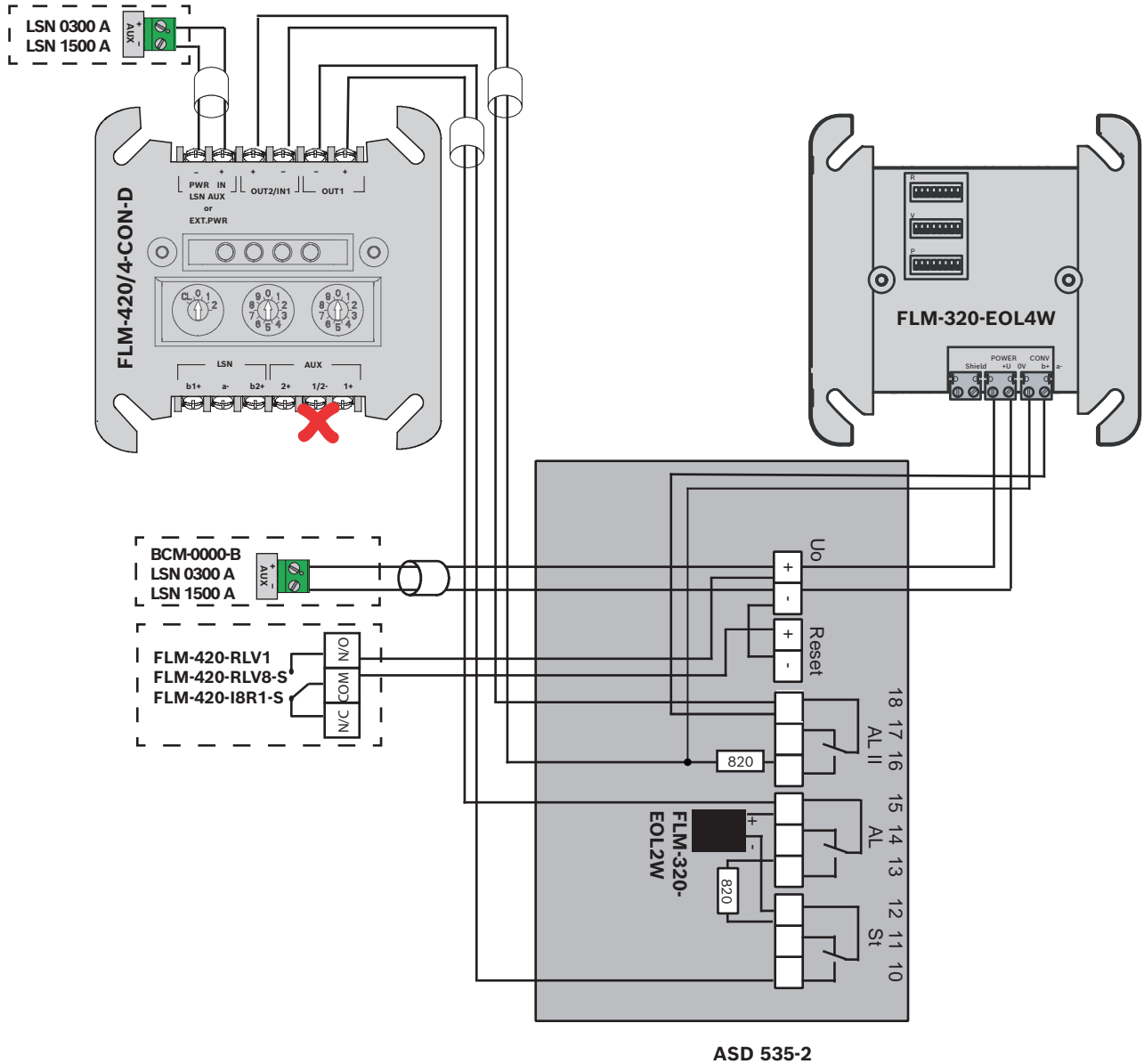
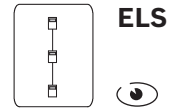




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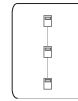




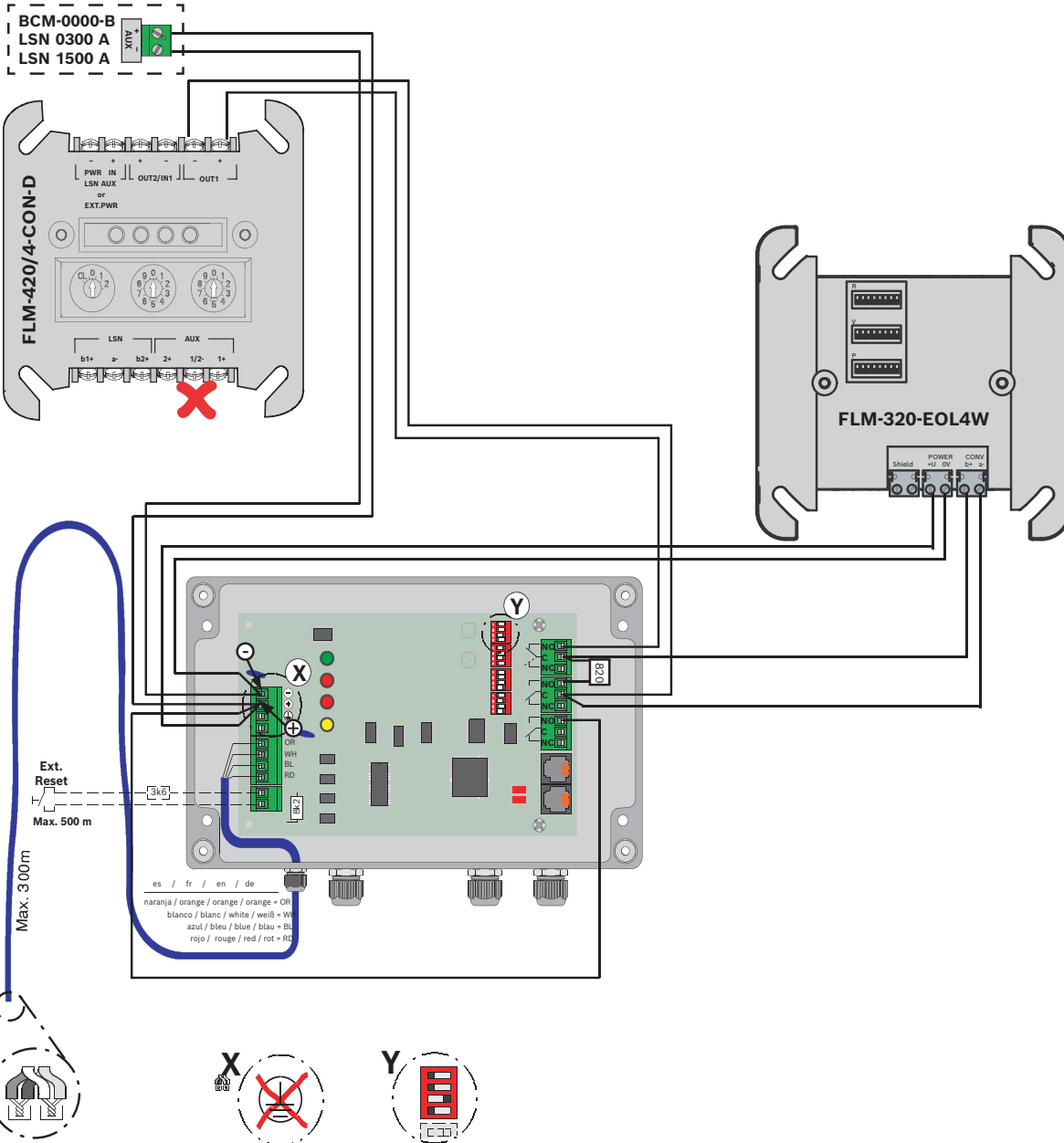


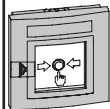
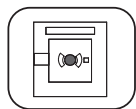


FCS-LWM-1

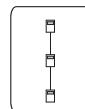


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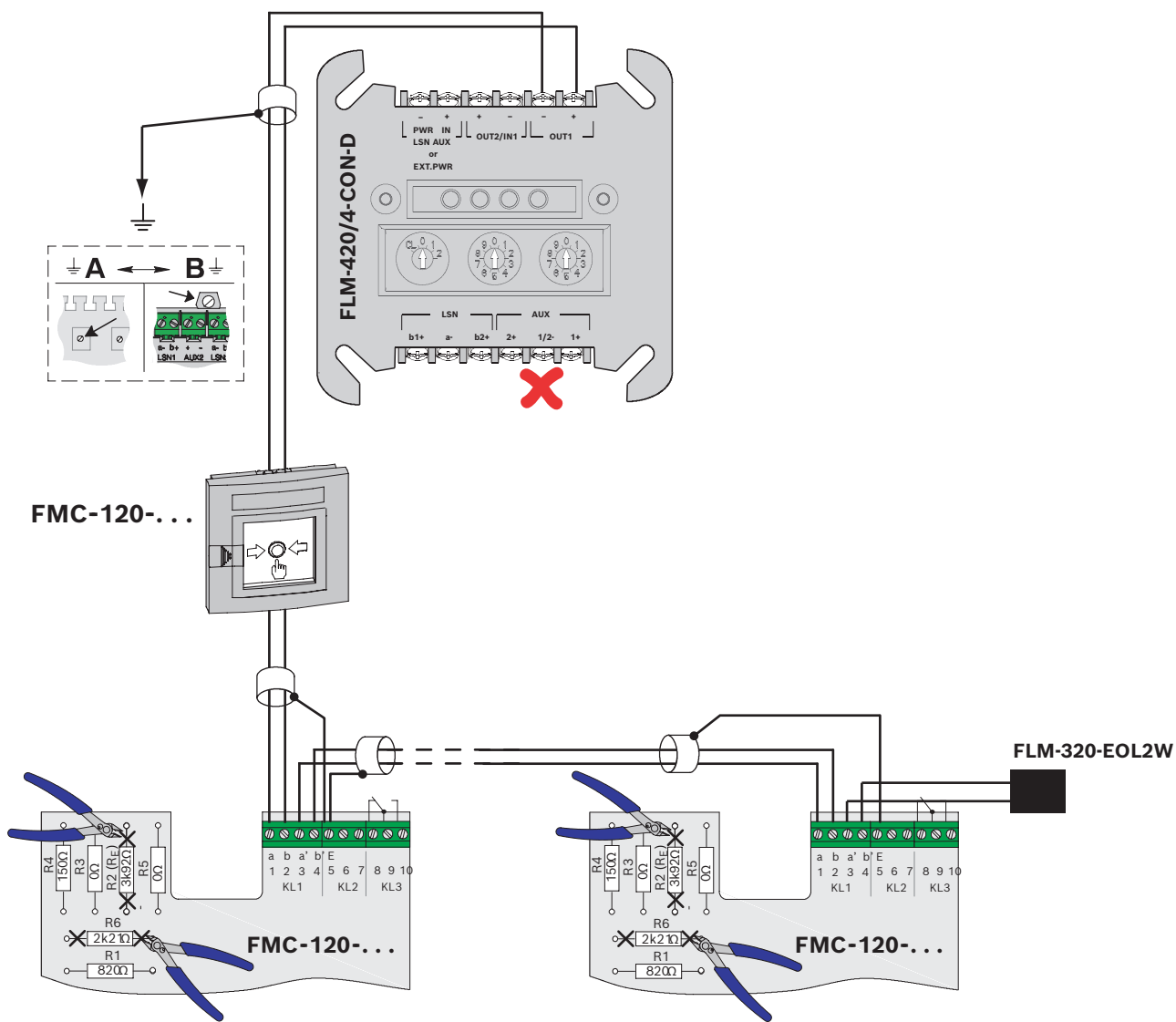


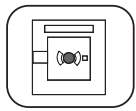


FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B

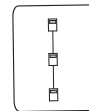


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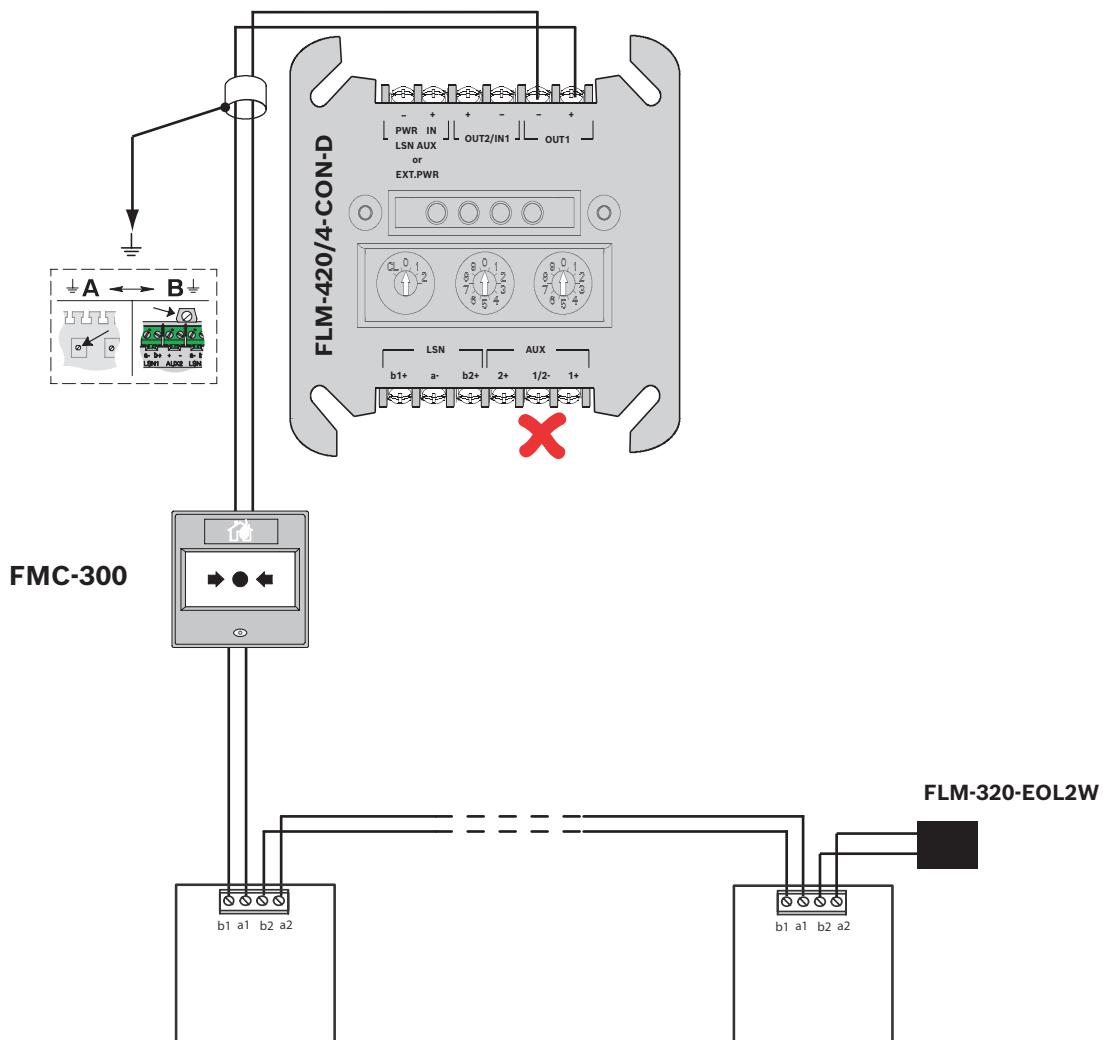


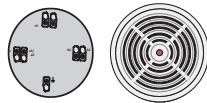


FMC-300



ELS

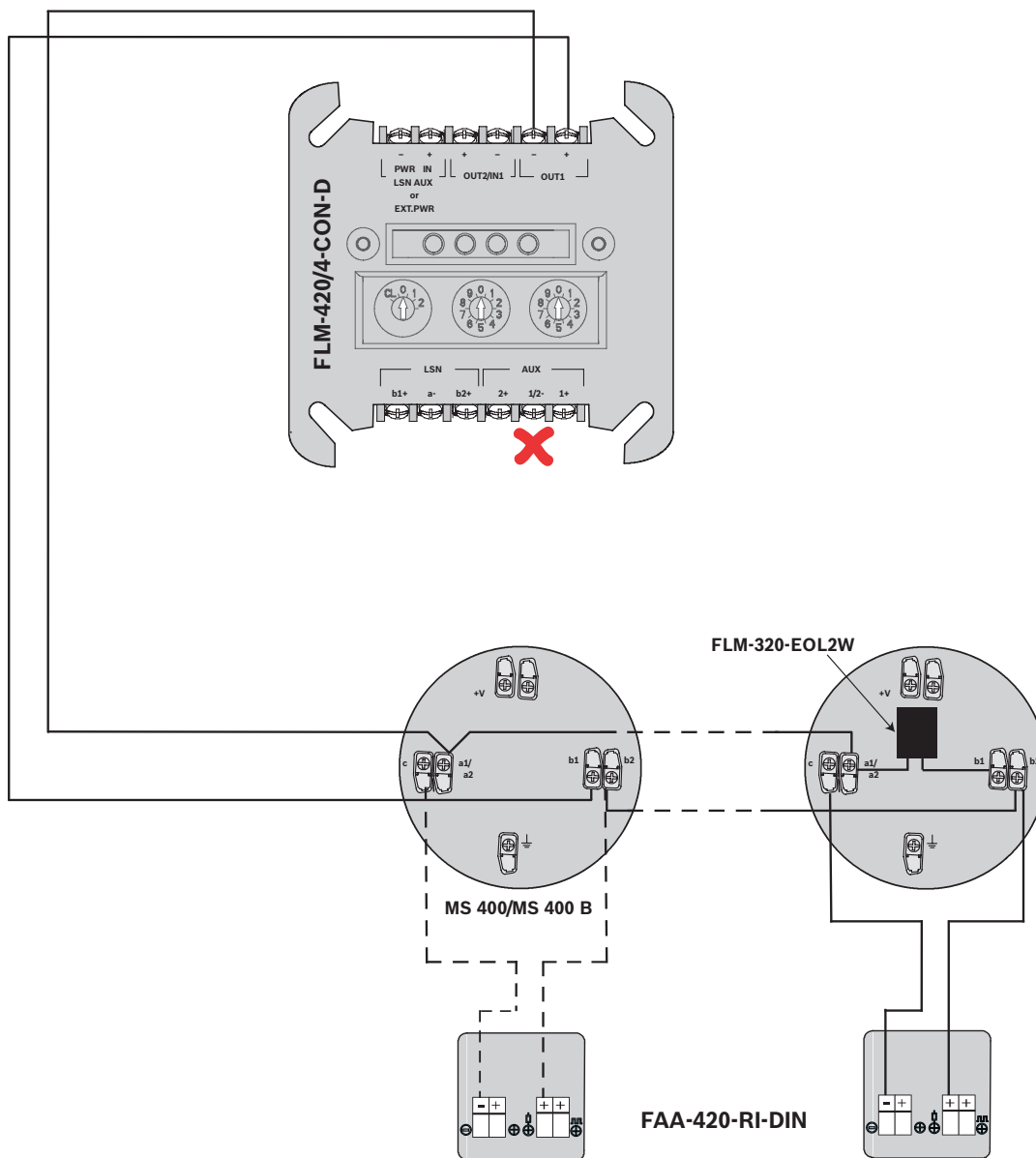




MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



ELS

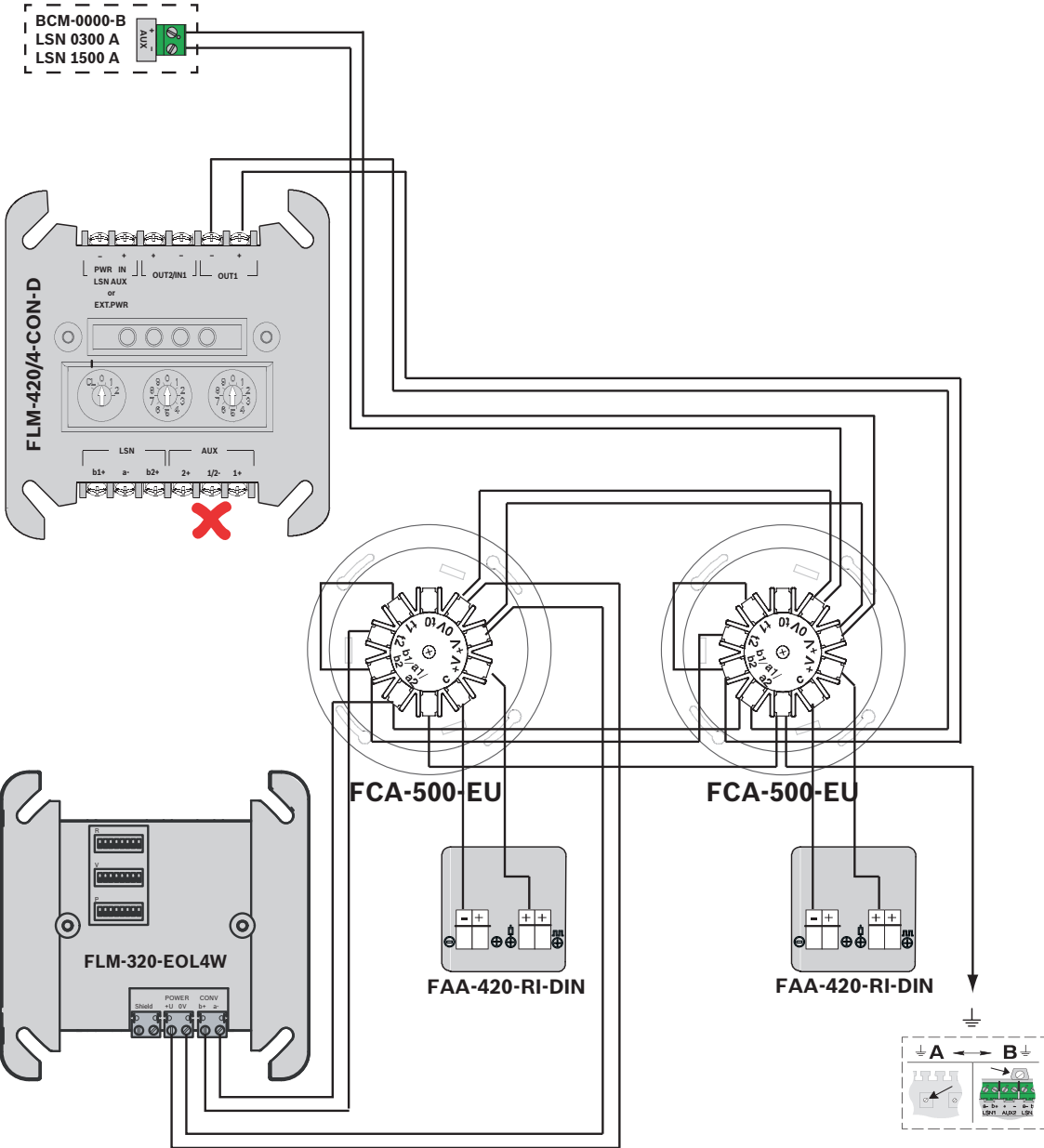


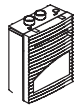


FCP-500



ELS

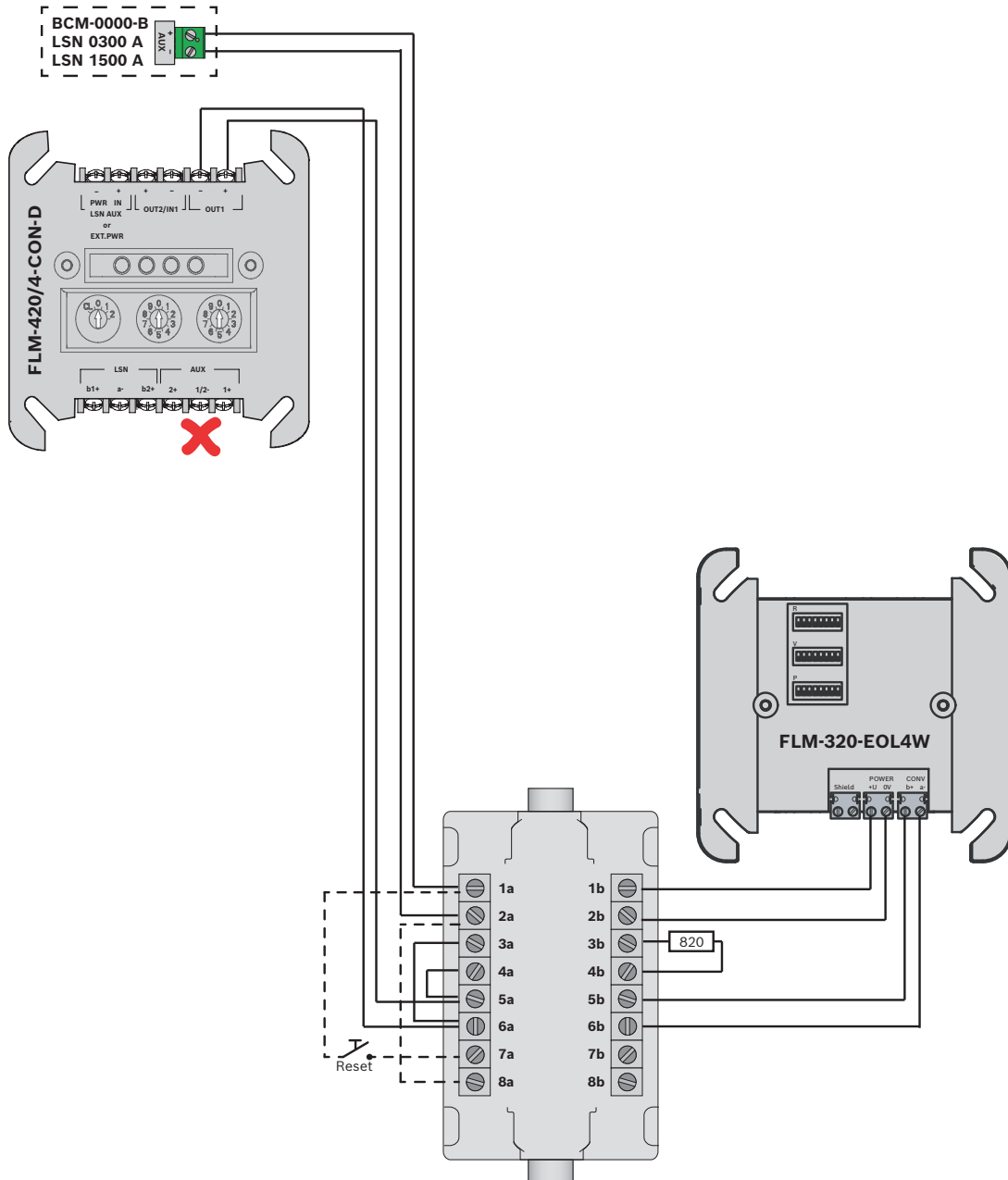


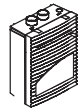


FCS-320-TM Series

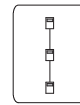


ELS



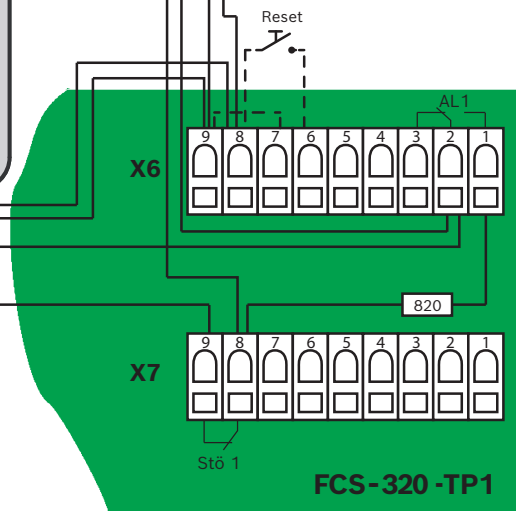
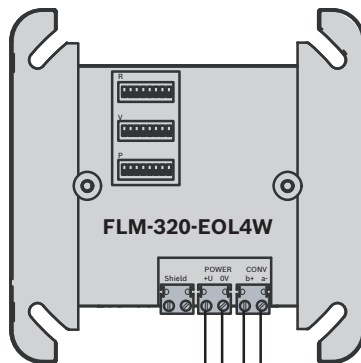
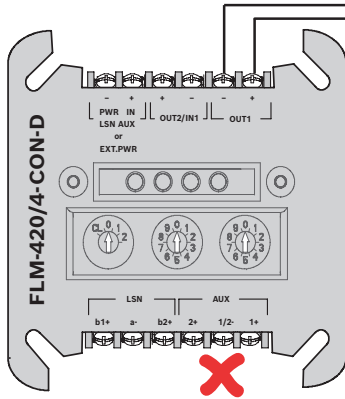


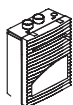
FCS-320-TP Series



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



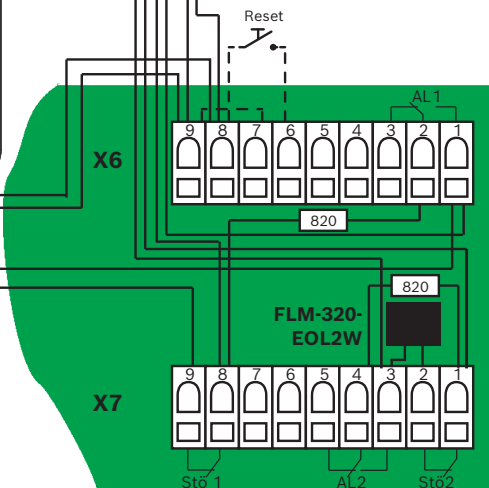
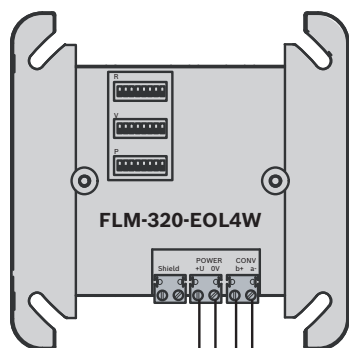
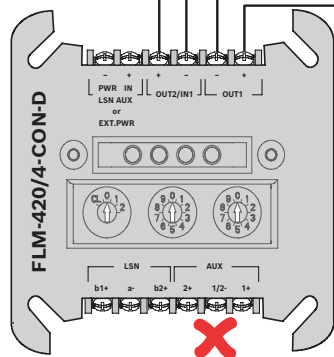


FCS-320-TP Series

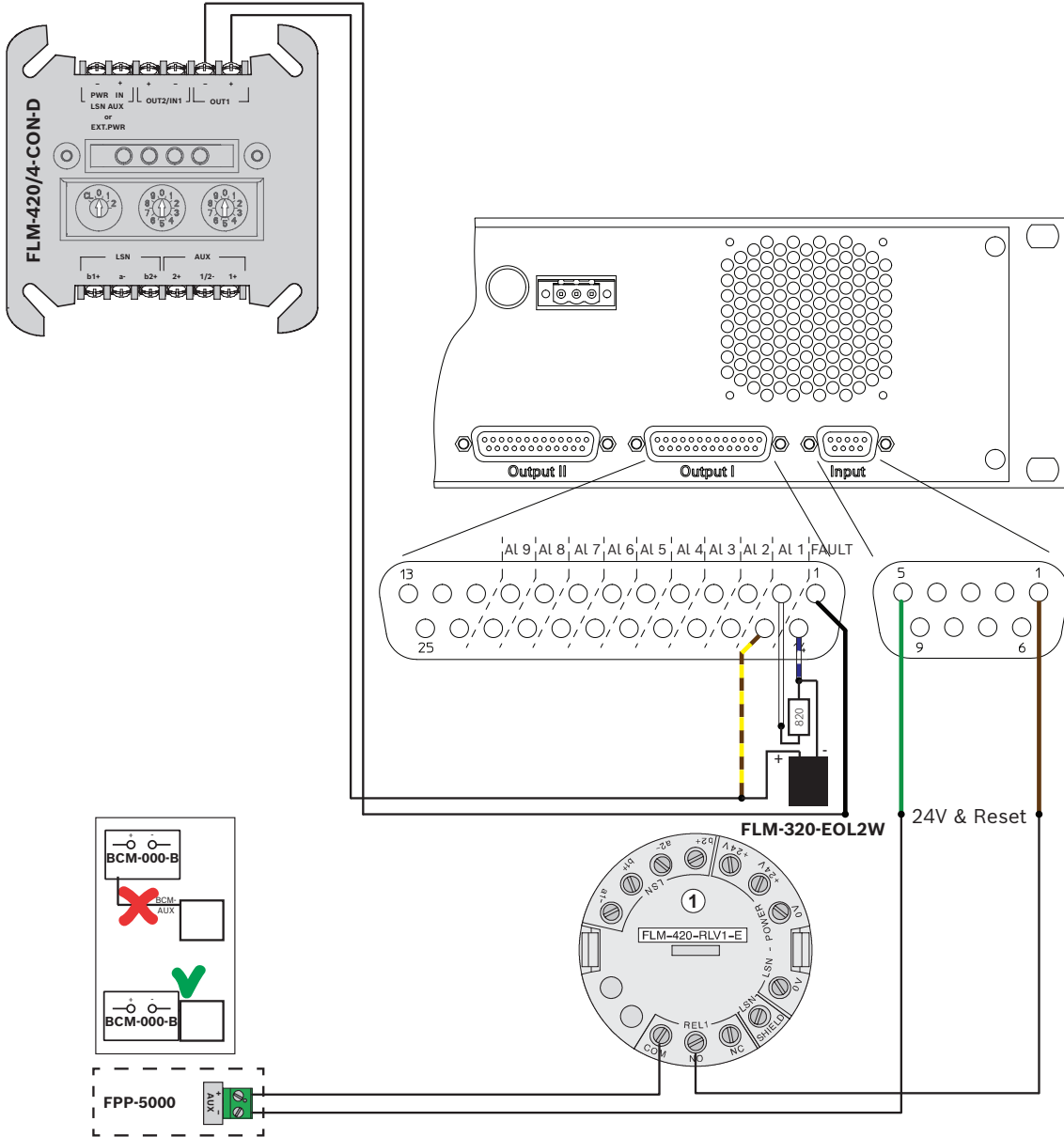
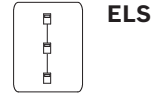


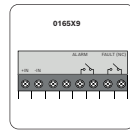
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

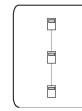


FCS-320-TP2

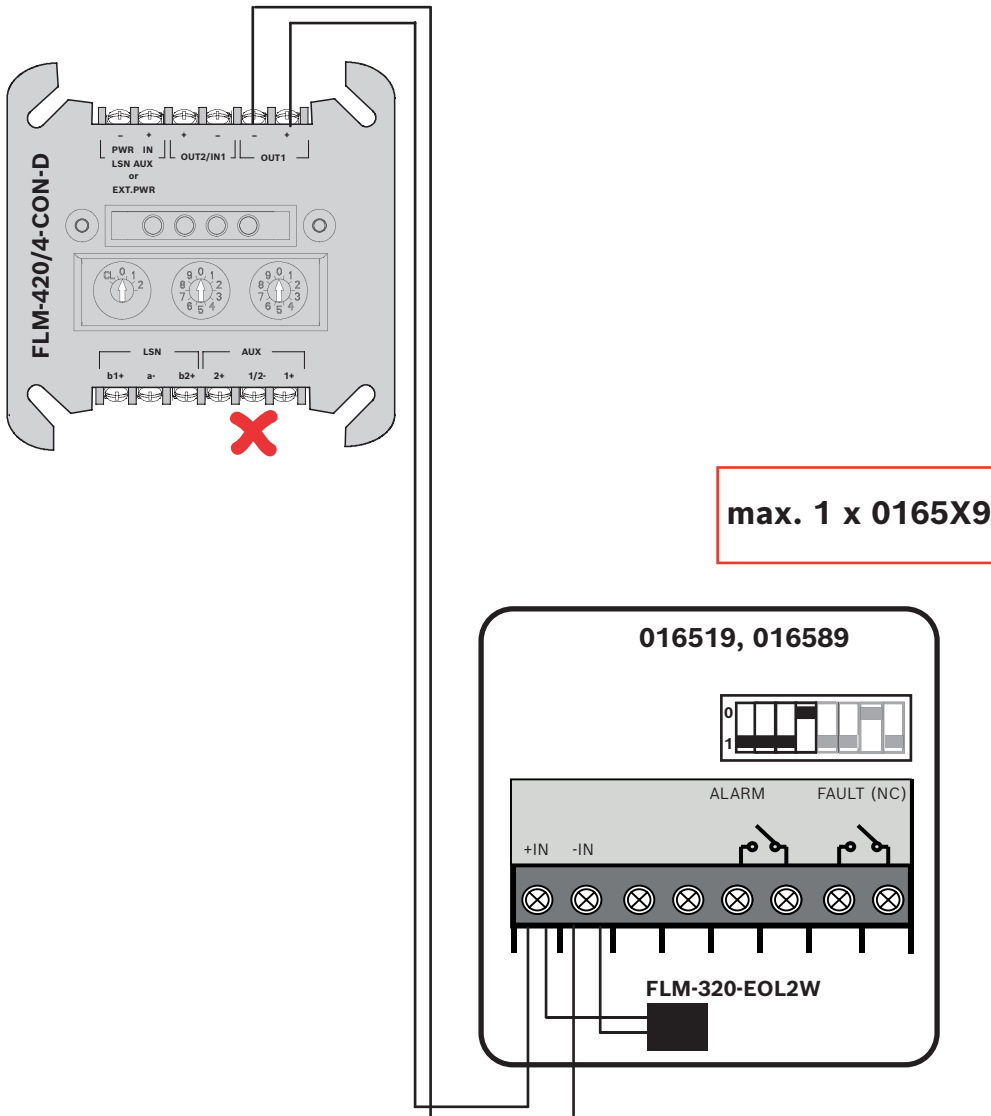


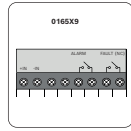


016519, 016589
IR3 Flame Detector

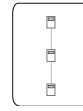


ELS

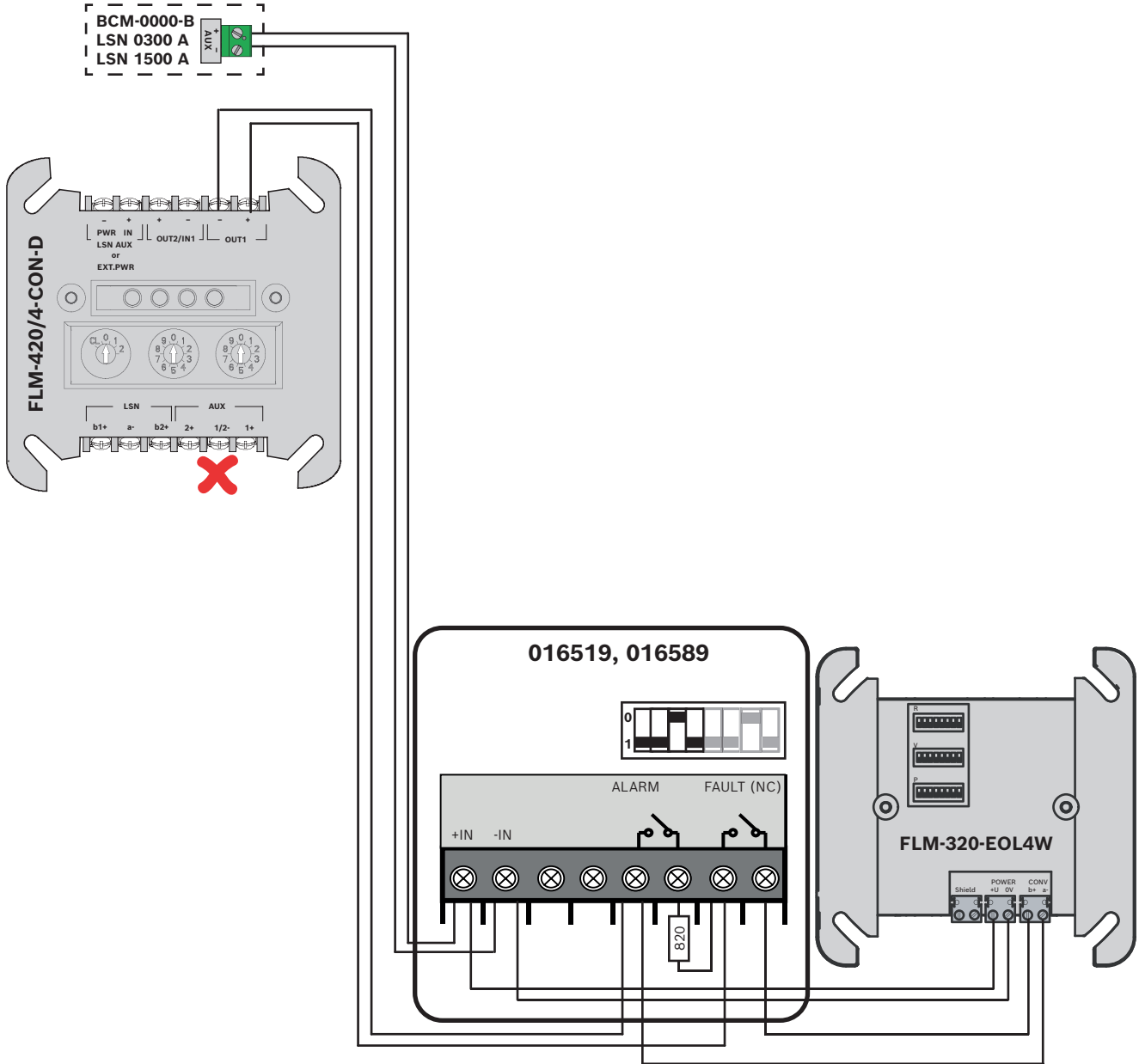




016519, 016589
IR3 Flame Detector

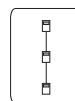


ELS

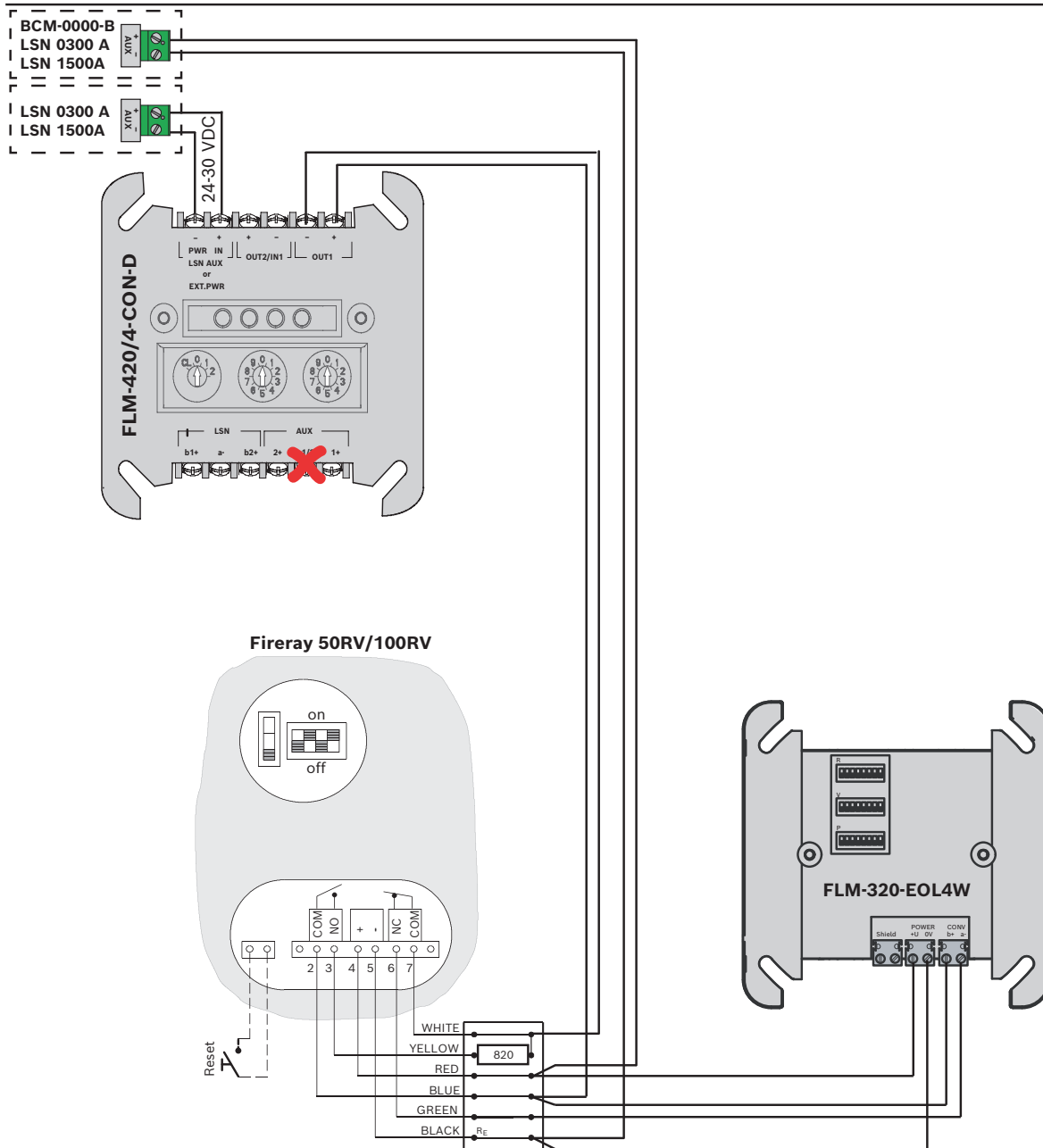




**Fireray 50RV
Fireray 100RV**



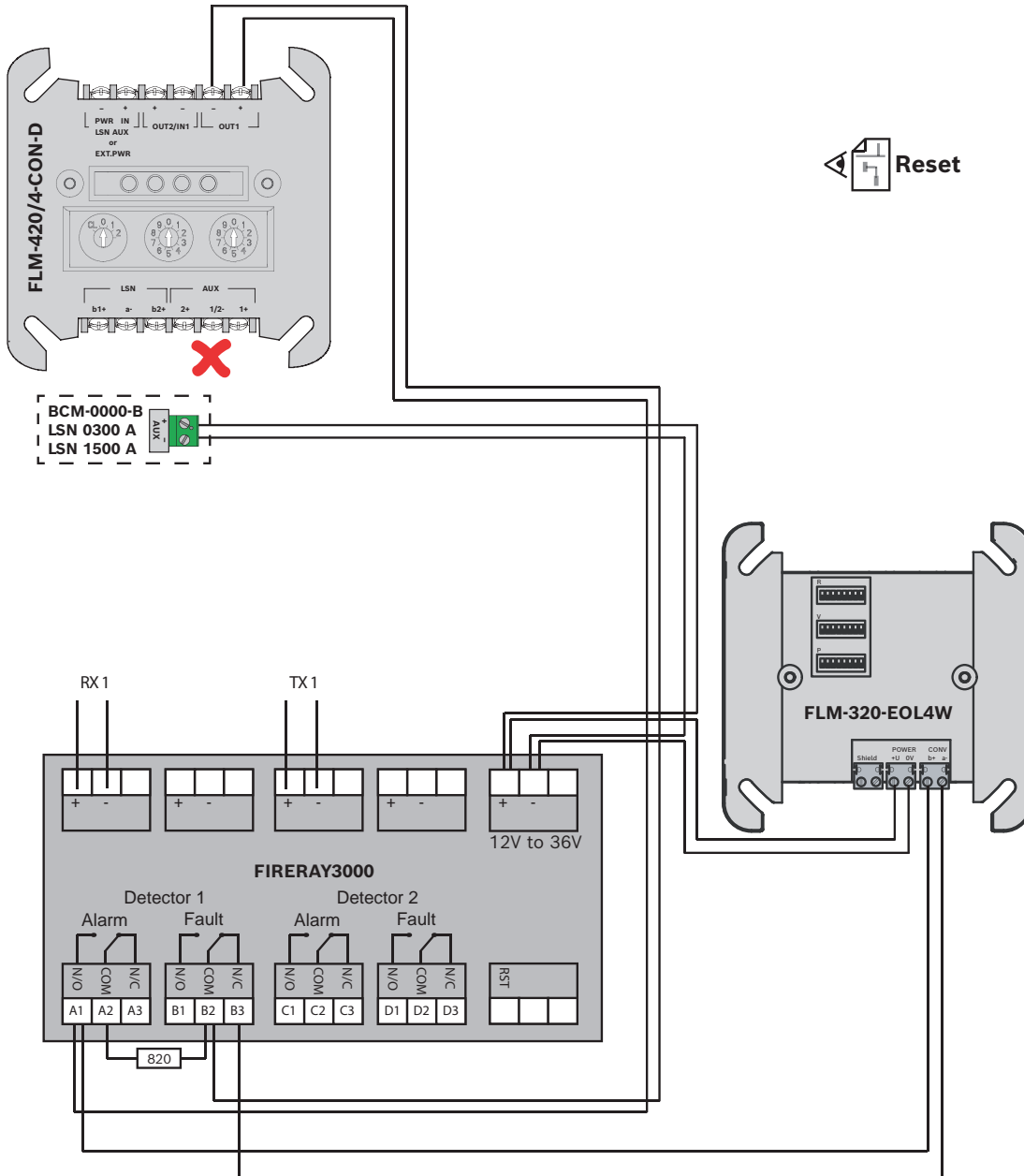
ELS





FIRERAY3000

1 x

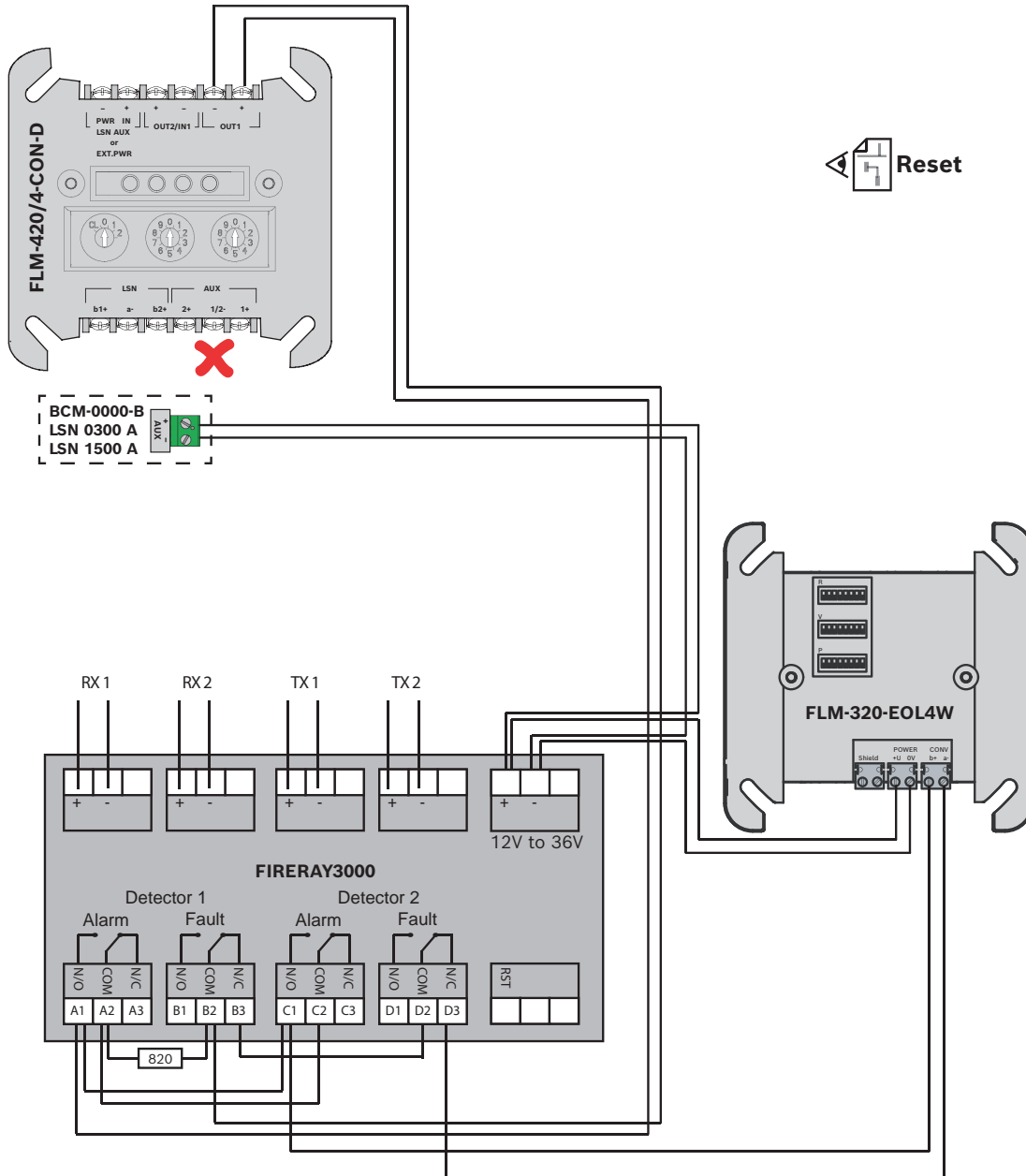




FIRERAY3000
2 x **OUT1**



ELS

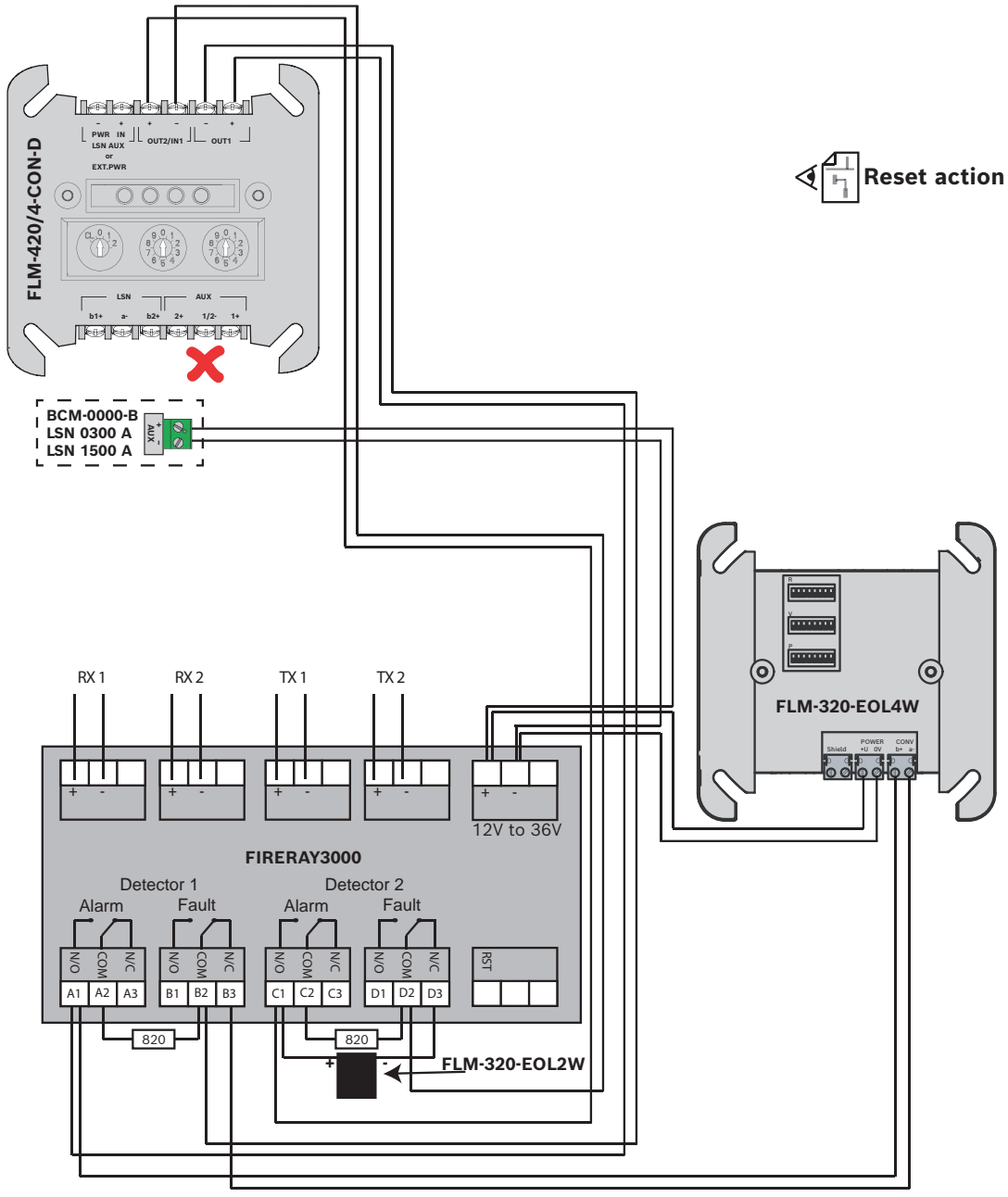




FIRERAY3000
2 x **OUT1+2**



ELS



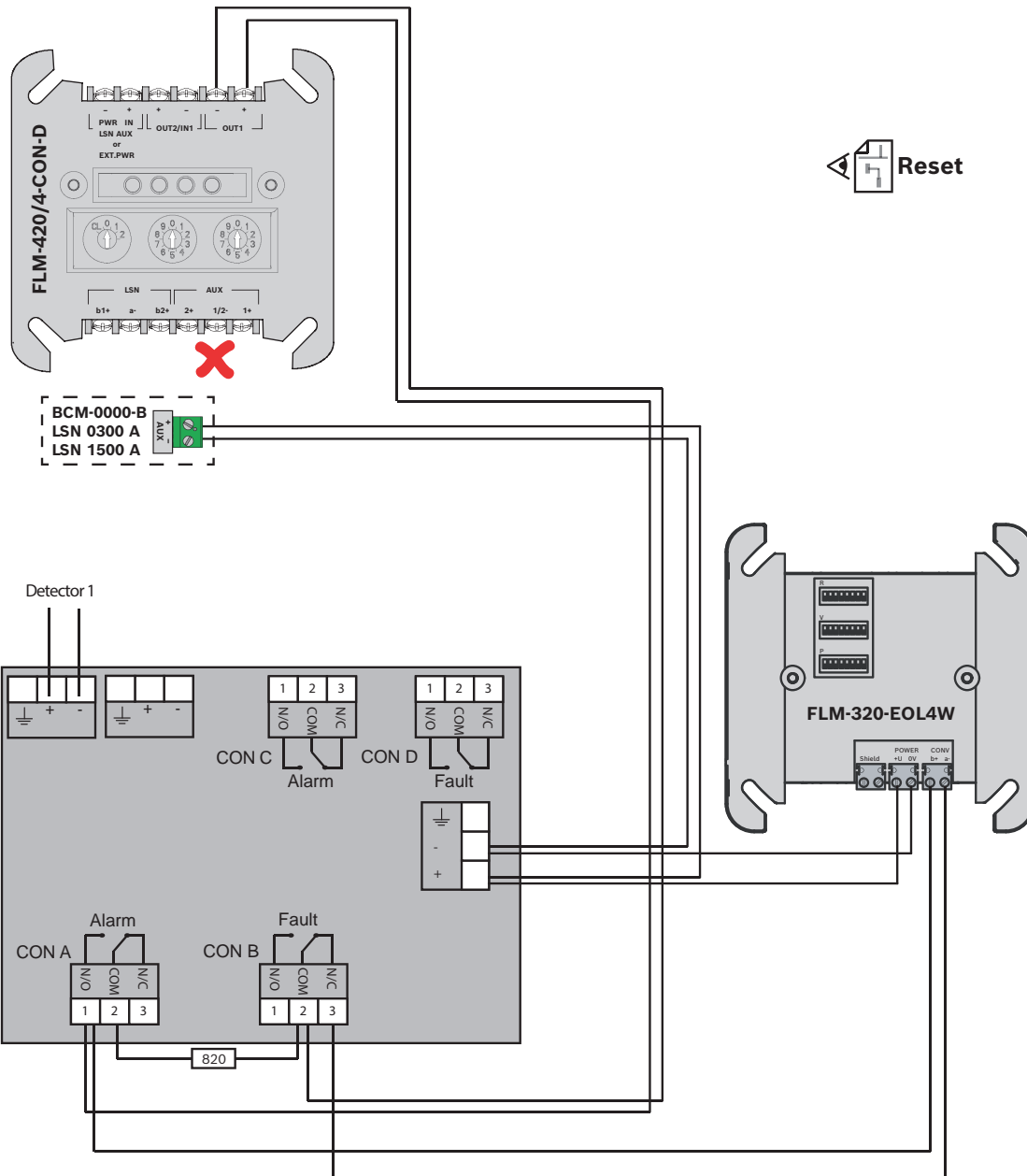


FIRERAY5000

1 x



ELS



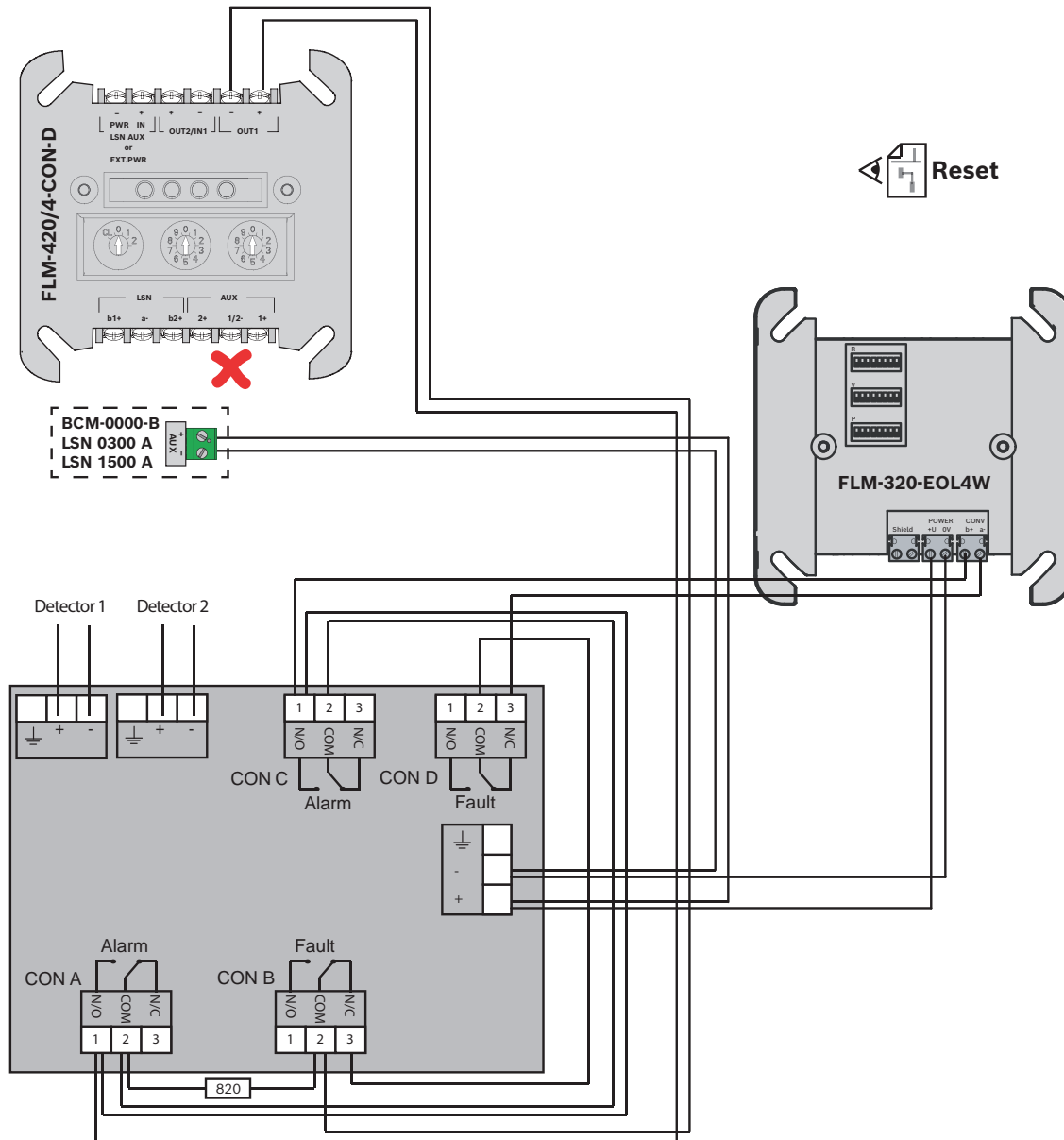


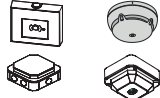
FIRERAY5000

2 x **OUT1**

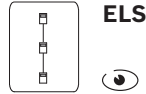


ELS



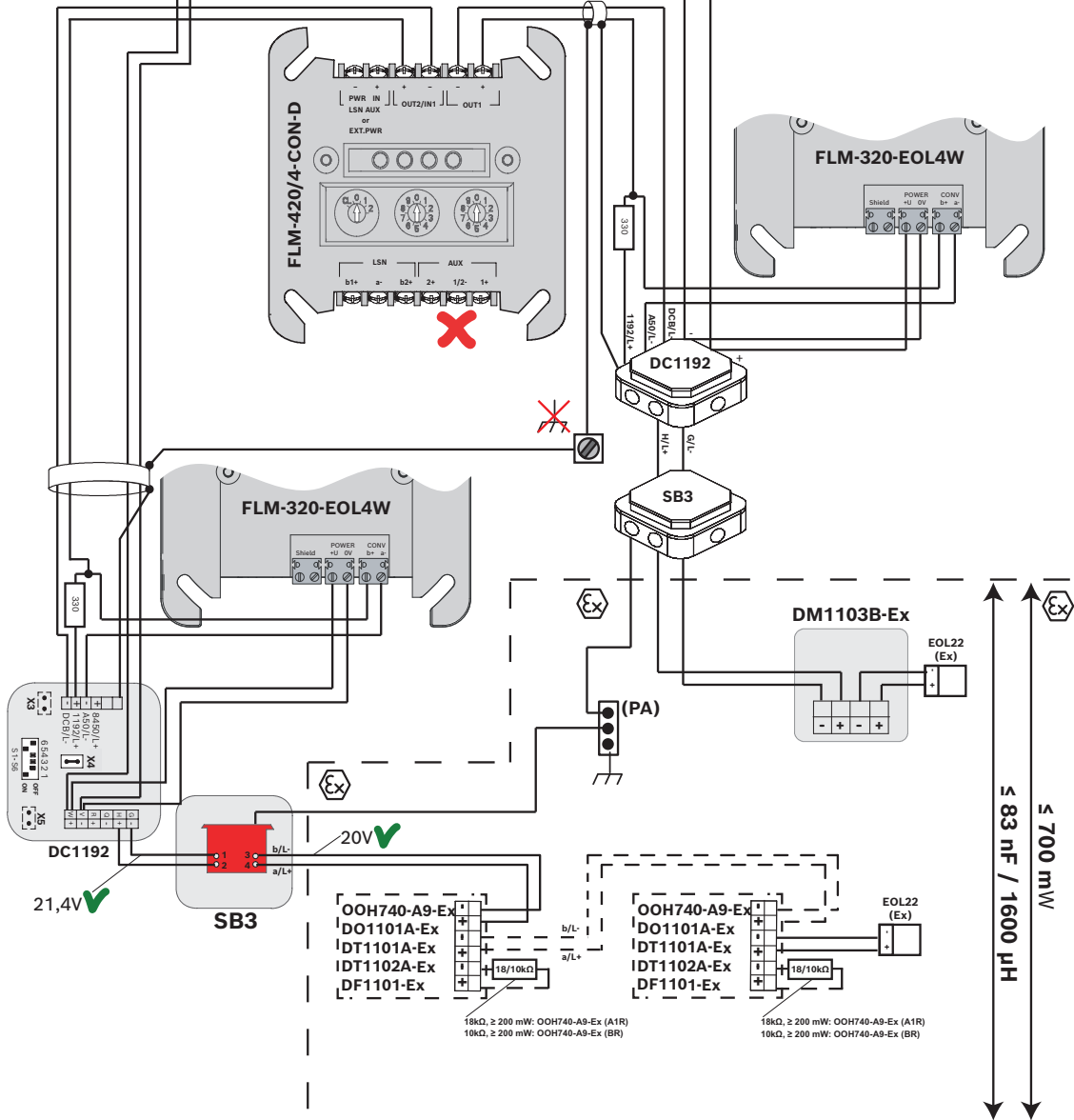


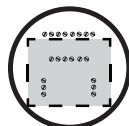
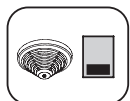
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



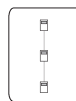
BCM-0000-B
 LSN 0300 A
 LSN 1500 A

BCM-0000-B
 LSN 0300 A
 LSN 1500 A

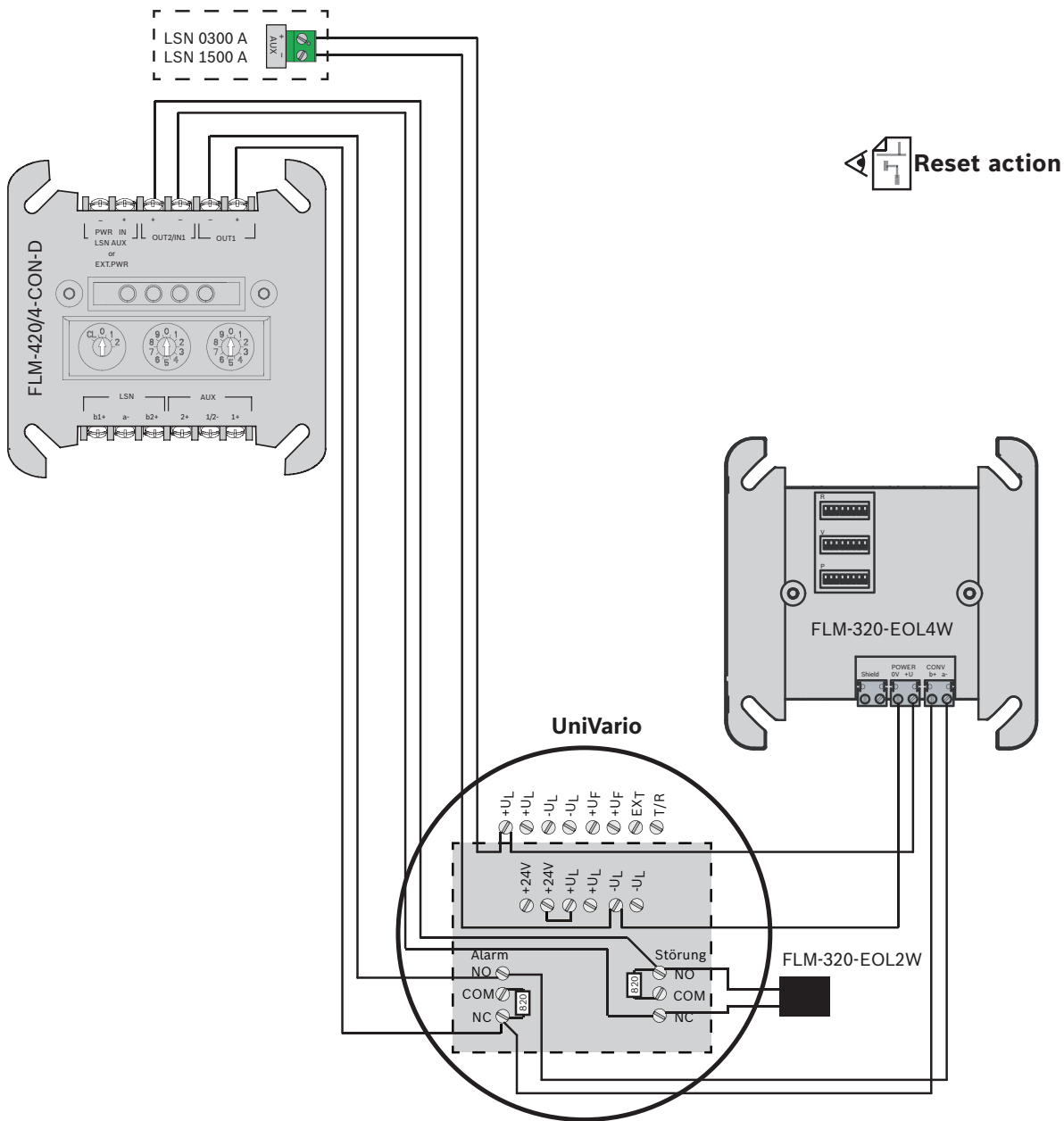




UniVario WMX5000
 UniVario FMX5000
 UniVario KMX5000



ELS



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