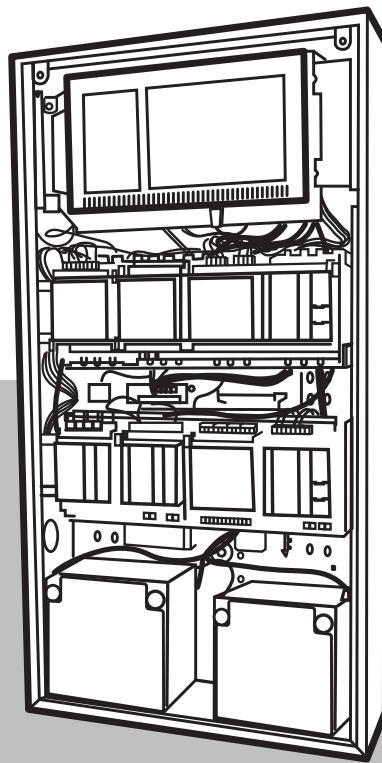


AVENAR panel series



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1 Avisos

1.1 Conteúdo

Este Manual de ligações mostra como os dispositivos periféricos são ligados ao painel de incêndio por princípio. Os regulamentos nacionais e locais não estão a ser tidos em conta. A aplicação de requisitos nacionais e locais pode resultar em mais ligações.

**Informação!**

As ligações descritas neste documento também se aplicam ao AVENAR panel 2000, desde que os componentes individuais sejam extensões aprovadas pela Bosch Sicherheitssysteme GmbH para o AVENAR panel 2000.

**Informação!**

As ligações do módulo LSN 0300 A descritas neste documento também se aplicam ao módulo LSN 1500 A.

Relativamente ao módulo LSN 1500 A, considere que para instalações na Alemanha, onde é requerida a conformidade com VdS 2540, a linha AUX e a linha LSN têm que estar em cabos separados.

1.2 Informações sobre o produto

- As instruções de instalação para os componentes individuais do painel de incêndio encontram-se disponíveis no Manual de instalação fornecido.
- Estão disponíveis mais informações (Manuais do utilizador, Manual de rede, Manual do sistema) na Internet em: www.boschsecurity.com

1.3 Notas importantes

- Utilize apenas os materiais de instalação recomendados pela Bosch Security Systems.
- Apenas efectue trabalhos de conversão e soldadura mediante o uso de uma pulseira antiestática com ligação à terra.
- A montagem e a instalação apenas devem ser efectuadas por técnicos qualificados.
- Respeite os critérios de ligação impostos pelas autoridades/instituições regionais.



Perigo!

O contacto com componentes com corrente pode ser fatal.
Desligue a alimentação antes de executar a instalação.

Cabo com blindagem

É necessário um cabo com blindagem para todas as ligações de dois fios para o CZM 0004 A e para ligar os produtos seguintes:

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

O exemplo de ligação seguinte mostra como aplicar um cabo com blindagem.

Informação!

Se for necessário ligar o cabo com blindagem LSN, proceda de acordo com as especificações LSN.

- Ligue o cabo com blindagem LSN do lado do painel ao conector de terra funcional especificado:

duas conexões no início e no fim de um loop
uma conexão no início de um ramal

Ligue o cabo com blindagem em loop a todos os dispositivos periféricos LSN utilizando os terminais fornecidos

- Não é permitida nenhuma ligação adicional da cablagem do cabo LSN, nem mesmo aos conectores de terra existentes em qualquer localização ou outro potencial elétrico



1.4 Notas do utilizador

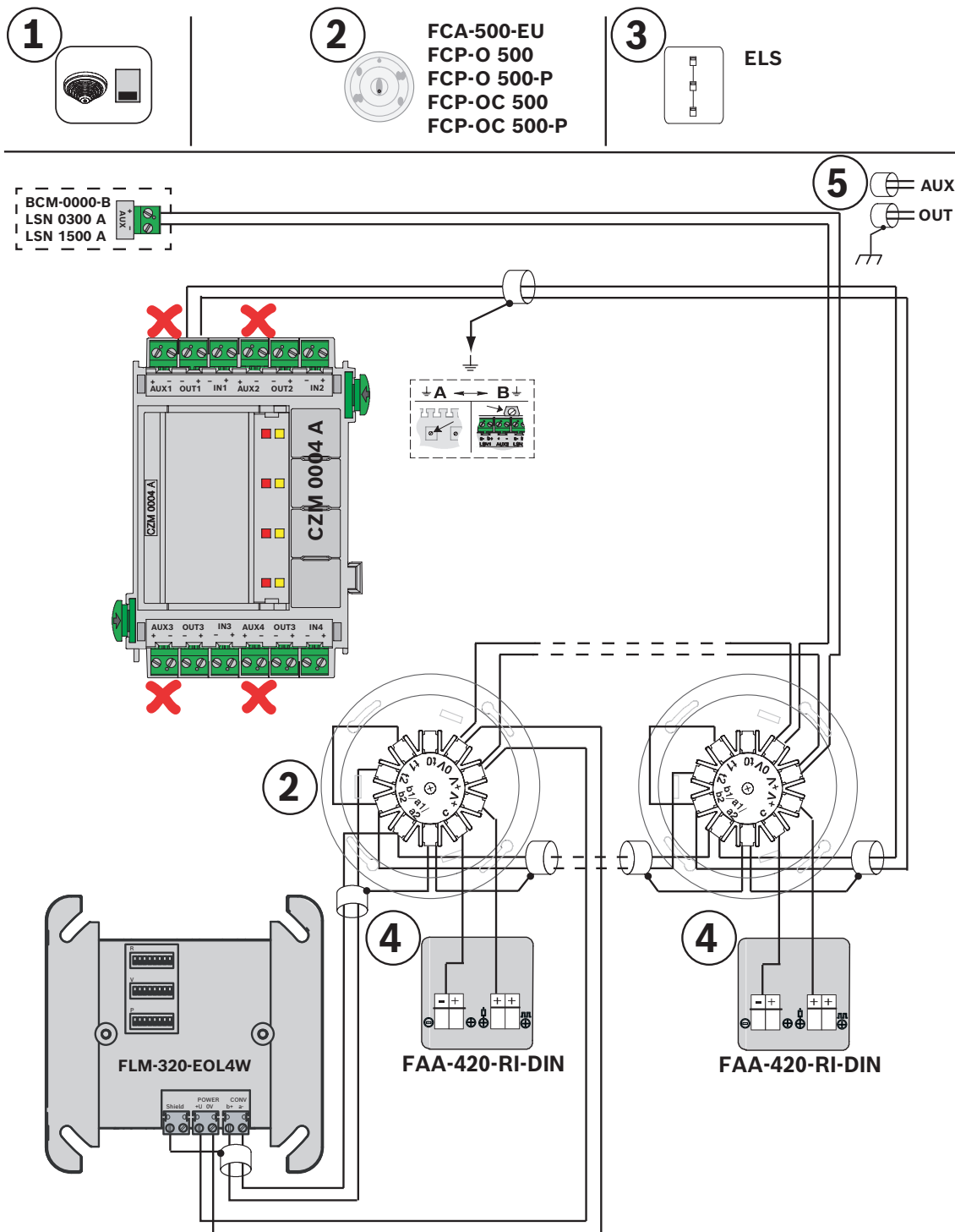
O manual de ligações tem a seguinte estrutura:

- O capítulo Ligação é ordenado pelo dispositivo ao qual um dispositivo periférico é ligado. O esquema de ligações mostra a ligação direta de um dispositivo a outro dispositivo (sem ligações em cascata).
- Pode encontrar uma coleção de todas as ligações complementares com módulos EOL adicionais para uma monitorização de circuito aberto crescente na secção EOL.

Para encontrar a ligação pretendida, utilize também:













- o índice existente no início do capítulo Ligação e no início das secções Módulos funcionais, Módulos de interface e EOL.
- o Index (aplicável a todos os idiomas),
- e a pesquisa de texto integral.

Confira o seguinte exemplo de cablagem:

















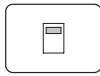
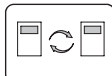

1	Símbolos de capítulo (<i>Símbolos de capítulo, página 7</i>)
2	Dispositivo periférico conectável
3	Símbolos de ligação (<i>Símbolos de ligação, página 7</i>)
4	Componentes opcionais
5	Alimentação e cablagem (<i>Alimentação e cablagem, página 8</i>)

1.4.1 Símbolos de capítulo



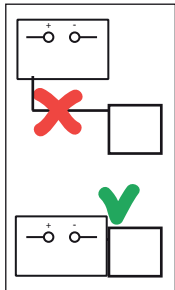
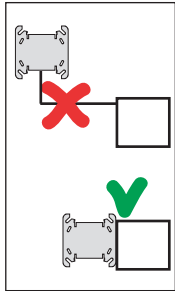

	Detetores automáticos		Painéis de operação e visualização		Impressora
	Fonte de alimentação		Módulos funcionais		Equipamento de serviço de incêndio
	Módulos interface		Sistemas de extinção		Botões de alarme manual
	Dispositivos de sinalização		Controlos das portas		Unidades de transmissão

1.4.2 Símbolos de ligação

	Ligação obrigatória		Ligação opcional		Não permitido
	Redundância		Ligação em loop		Ligação em loop com elemento redundante
	Ligação em ramal		Ligação em ramal redundante		Ligação em ramal com elemento redundante
	Ligação em ramal redundante com elemento redundante	ELS	Esta ligação está em conformidade com VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS é a abreviatura de Supervisão de Linha Expandida, o que significa monitorização de curto-circuito crescente e monitorização de circuito aberto crescente. Esta ligação disponibiliza ELS. É detetado um curto-circuito crescente através dos seguintes módulos: LSN 0300 A, LSN 1500 A e BCM-0000-B ao utilizar FPP-5000-TI13.		Esta ligação em loop está em conformidade com VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. Disponibiliza ELS. Não são necessários módulos EOL adicionais.
	Sincronização		Áreas com risco de explosão		Painel

	Painel autónomo		Painel autónomo com redundância		Para bases de detetores: o esquema de ligações só é válido para a base de detetores na qual o detetor esteja instalado.
EN 54-2, DIBT etc.	Se a conformidade com esta norma for necessária, utilize o esquema de ligações específico.				

1.4.3 Alimentação e cablagem

	É necessário cabo, 2 fios.
	É necessário cabo blindado, 2 fios.
	A caixa do produto que contém a fonte de alimentação tem de ser montada embutida no elemento.
	A montagem embutida é necessária para o módulo interface.
 Reset action	Consulte a ligação neste manual. Para disponibilizar o reset automático do dispositivo, tem de implementar a ação de reset.

1.5 Valores de resistência

A tabela que se segue fornece informações gerais sobre os códigos de cores das resistências. As resistências de capa metálica fornecidas com o produto possuem códigos de cores com cinco bandas que indicam o valor da resistência.

Cor	1. banda	2. banda	3. banda	4. banda (multiplicador)	5. banda (tolerância)
Prata				10^{-2}	$\pm 10\%$
Dourado				10^{-1}	$\pm 5\%$
Preto		0	0	10^0	

Cor	1. banda	2. banda	3. banda	4. banda (multiplicador)	5. banda (tolerância)
Castanho	1	1	1	10 ¹	±1%
Vermelho	2	2	2	10 ²	±2%
Laranja	3	3	3	10 ³	±0.05%
Amarelo	4	4	4	10 ⁴	±0.02%
Verde	5	5	5	10 ⁵	±0.5%
Azul	6	6	6	10 ⁶	±0.25%
Violeta	7	7	7	10 ⁷	±0.1%
Cinzentos	8	8	8	10 ⁸	±0.01%
Branco	9	9	9	10 ⁹	

De acordo com DIN EN 60062:2017

Laranja — branco — preto — castanho — castanho: resistência de 3,9 k Ohm com 1% de tolerância,

Vermelho — vermelho — preto — castanho — castanho: resistência de 2,2 k Ohm com 1% de tolerância.

2 Wiring



FPP-5000 Power supply, página 11

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

DIBT, página 15

Functional Modules, página 42

BCM-000-B, página 43

CZM 0004 A, página 45

ENO 0000 A/B, página 61

LSN 0300 A, página 68

NZM 0002 A, página 106

RMH 0002 A, página 119

IOS 0020 A, página 120

FPE-5000-UGM, página 122

Interface Modules, página 124

FLM-420-4/CON-D/S, página 125

FLM-420-I8R1-S, página 158

FLM-420-NAC-D/S, página 160

FLM-420-RHV, página 172

FLM-420-RLE-S, página 184

FLM-420-RLV1-E, página 185

FLM-420-RLV8-S, página 186

FMF-ADP-FBF/FMF-ADP-TTY, página 187

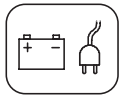
EOL, página 188

CZM 0004 A, página 189

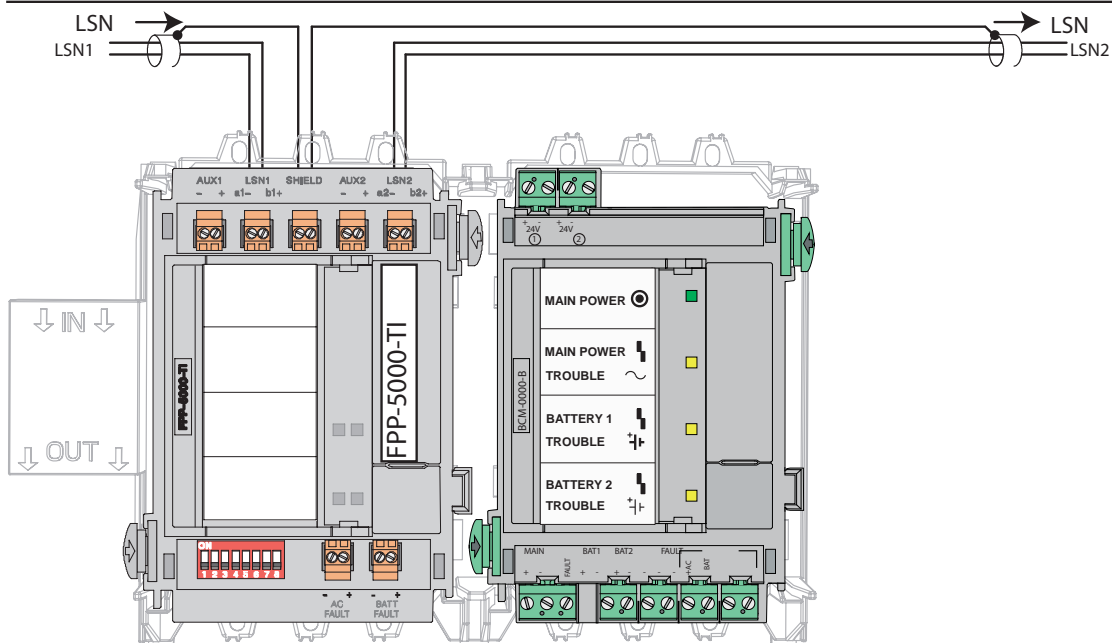
LSN 0300 A, página 201

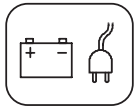
FLM-420/4-CON-S/D, página 246

2.1 FPP-5000 Power supply



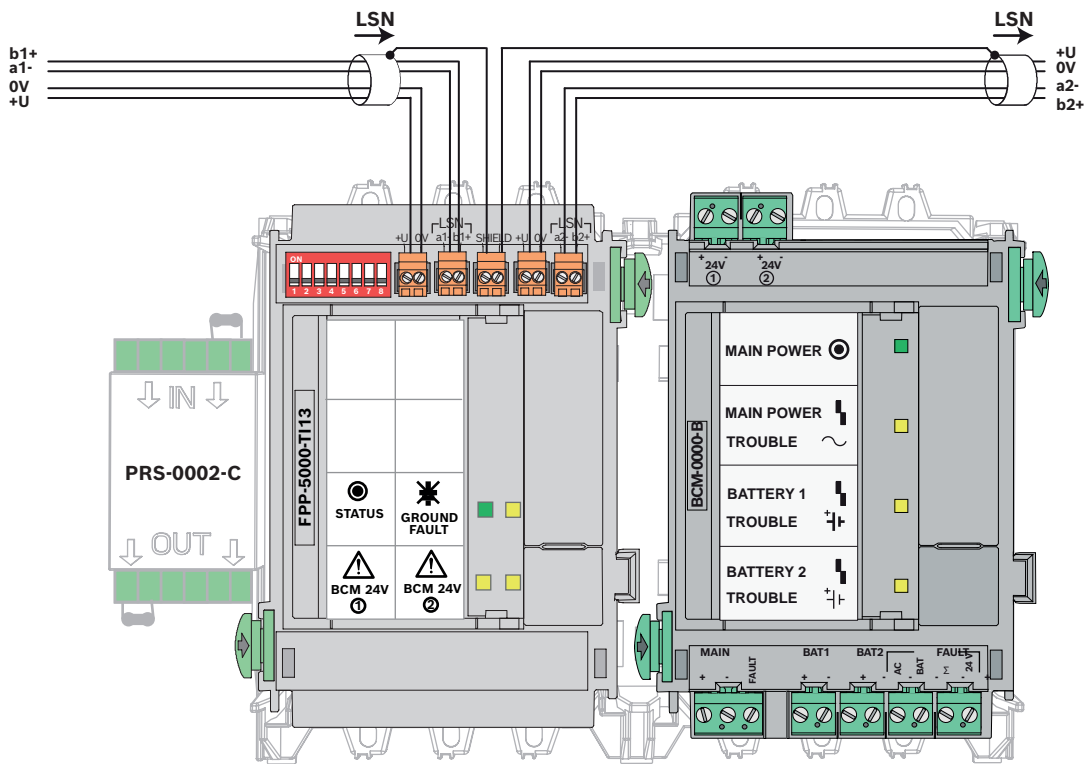
FPP-5000-TI



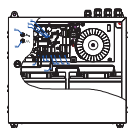
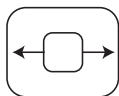


FPP-5000-TI13

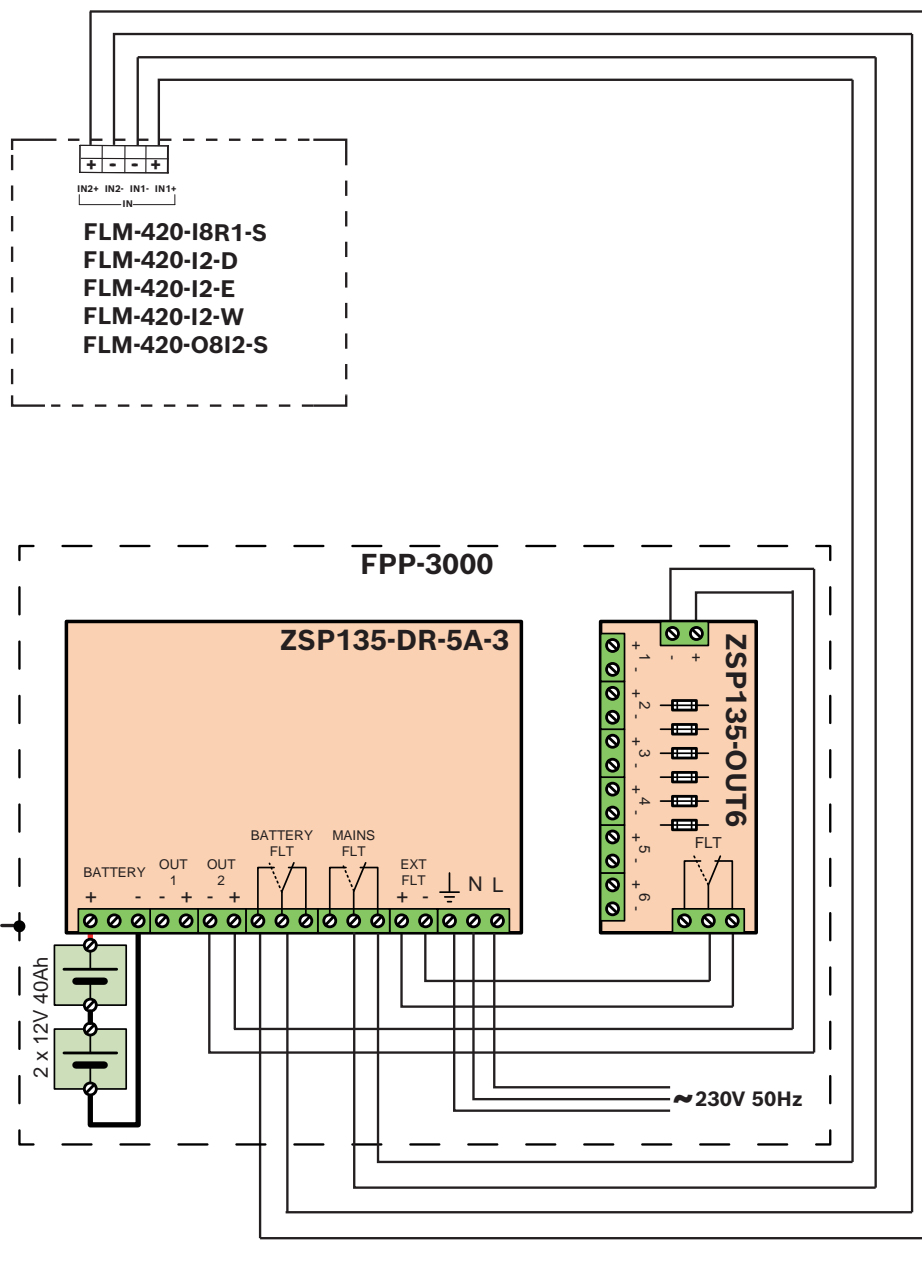
ELS

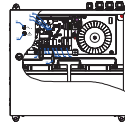
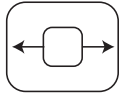


2.2 FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6)

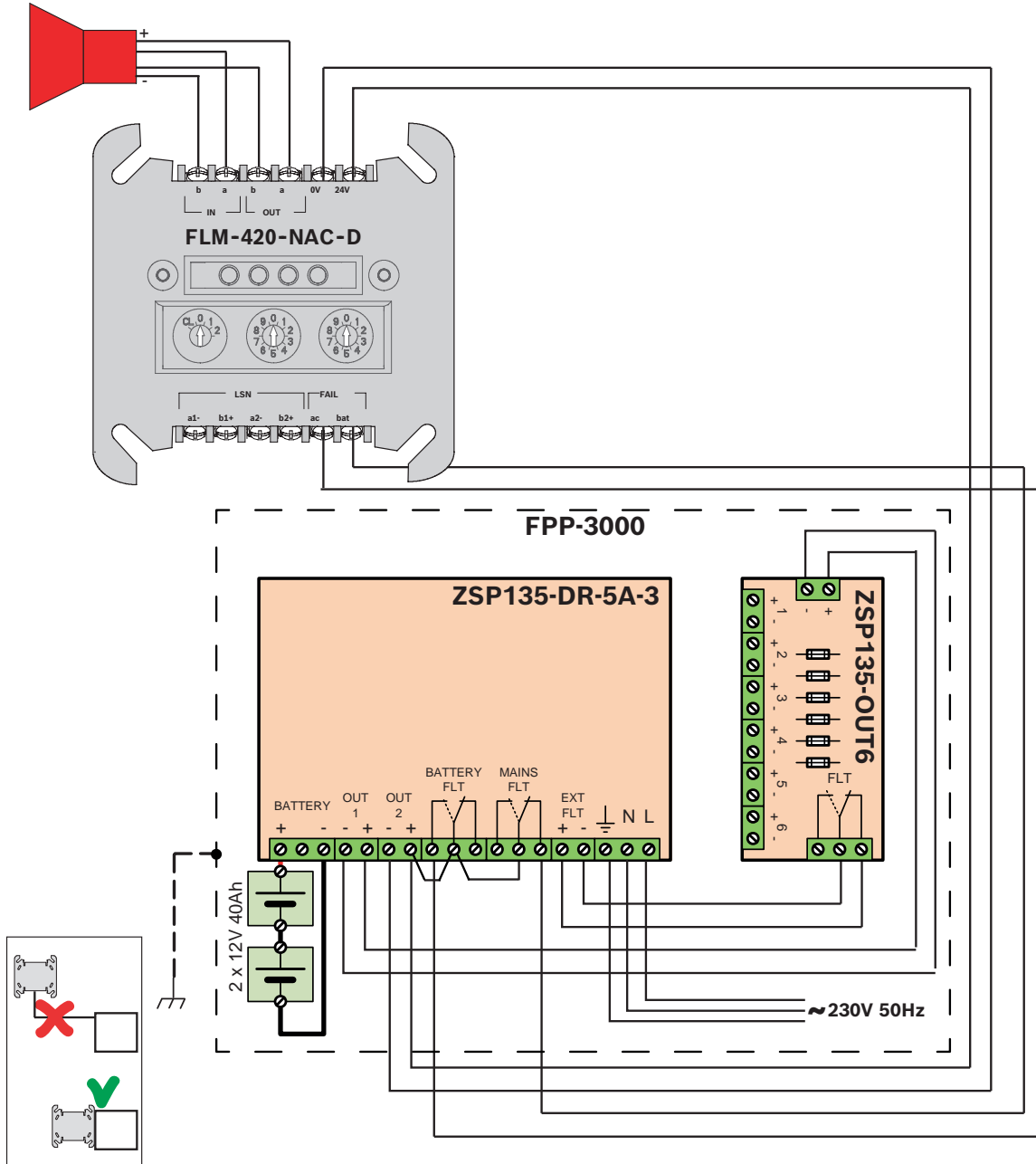


ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000

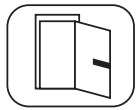




ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000

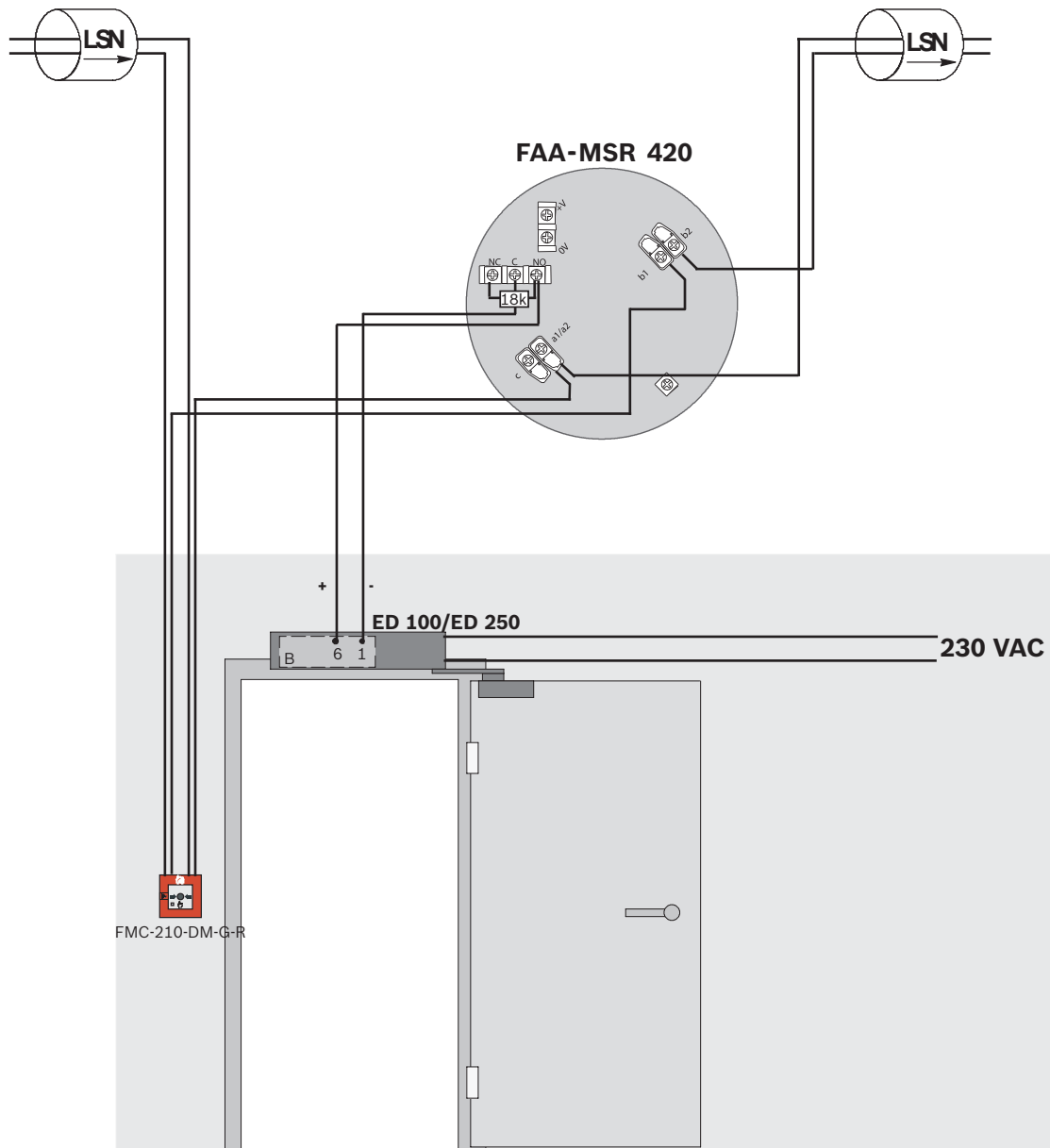


2.3 DIBT



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ED 250
(+Upgrade Card B)**

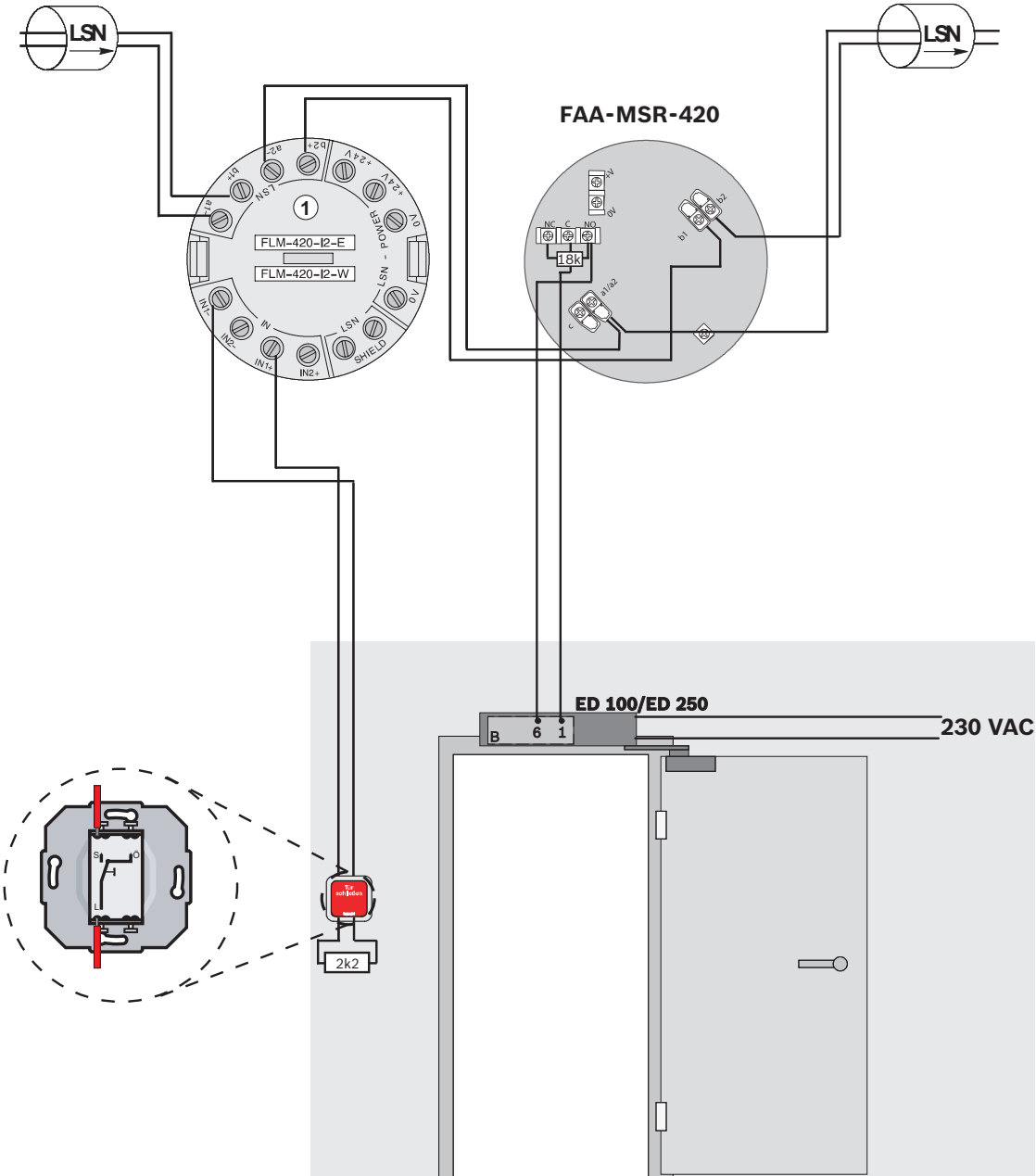
DIBT

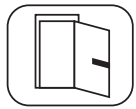




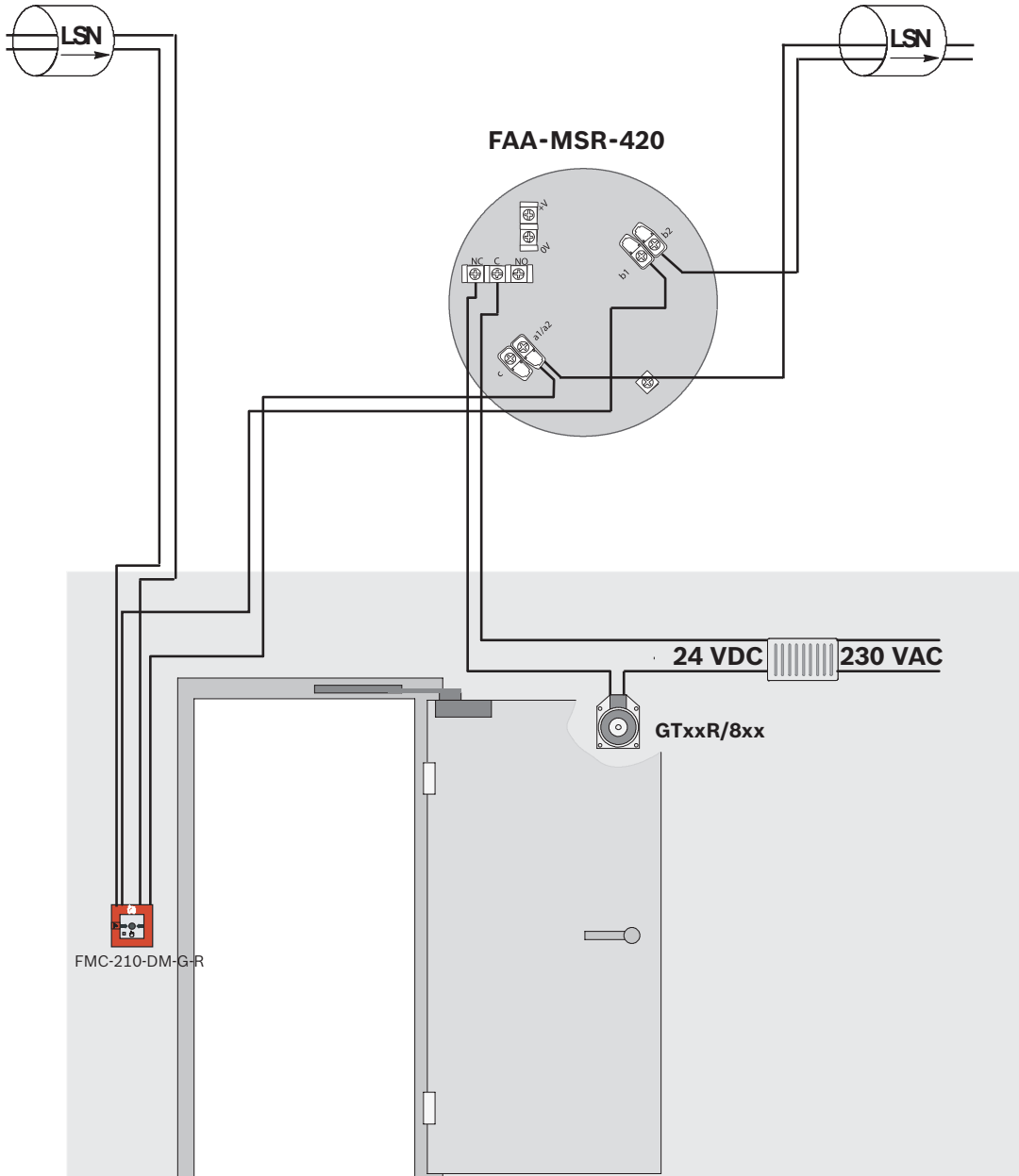
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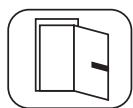
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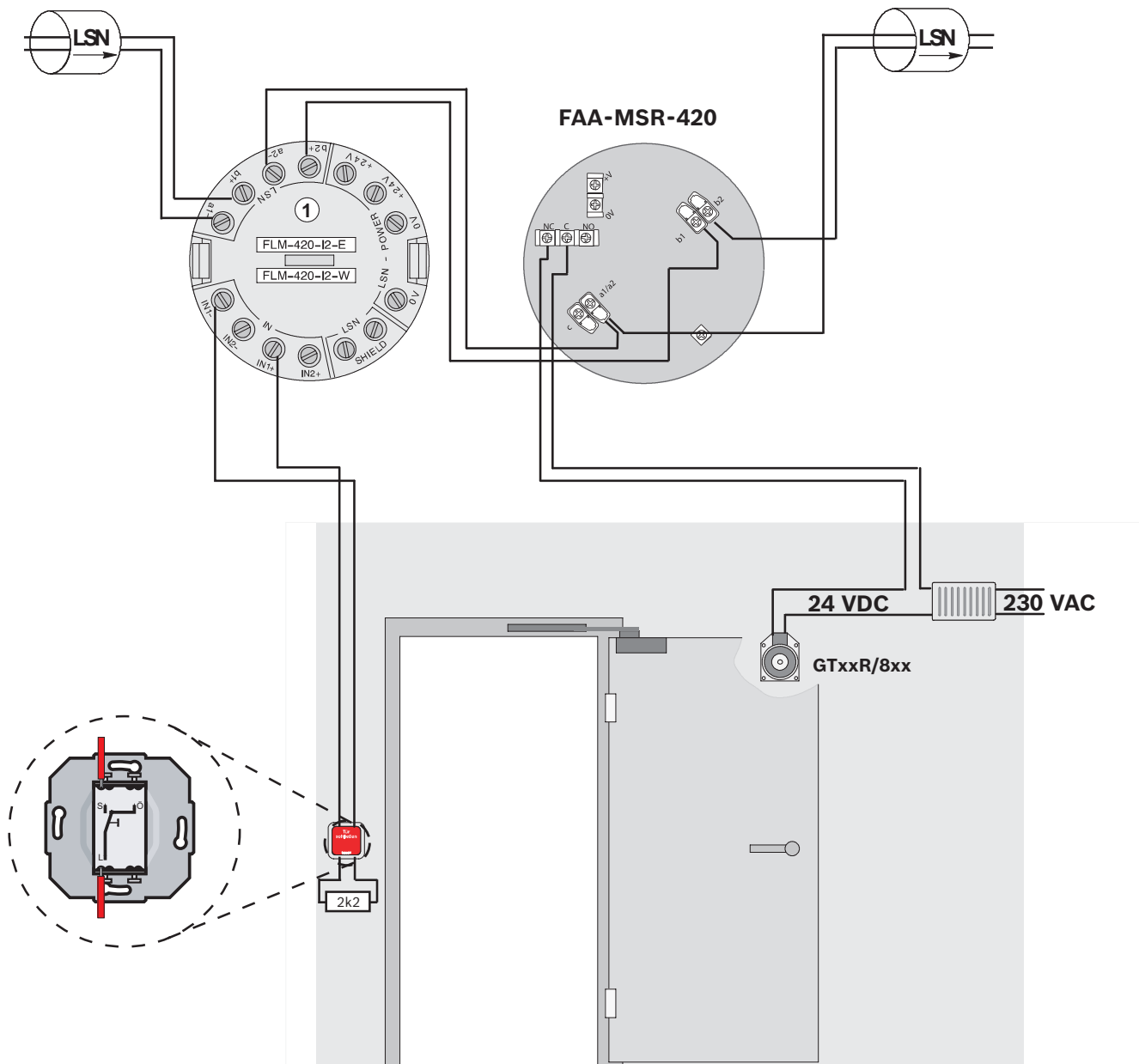


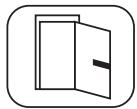
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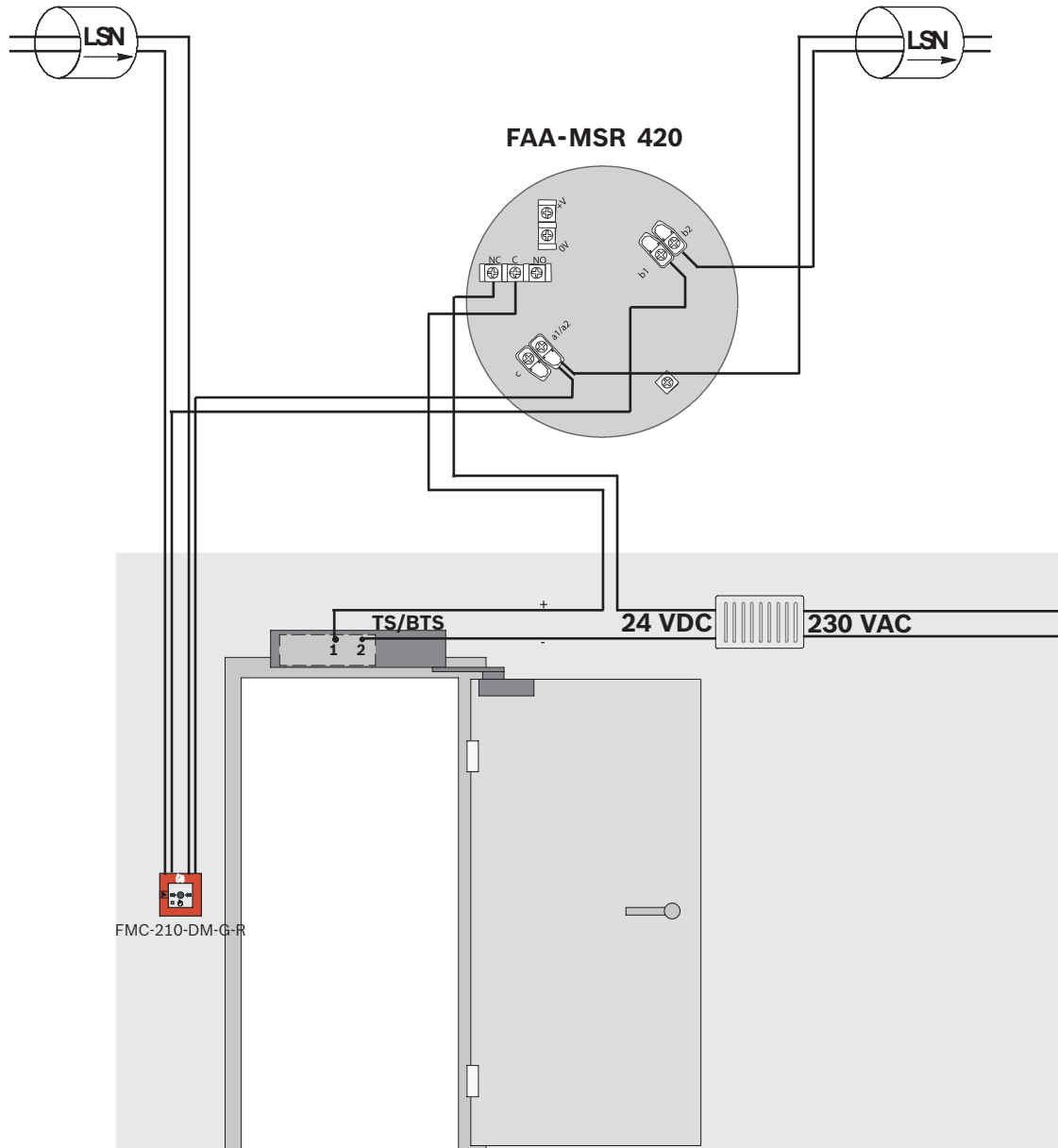
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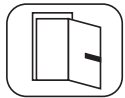




TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

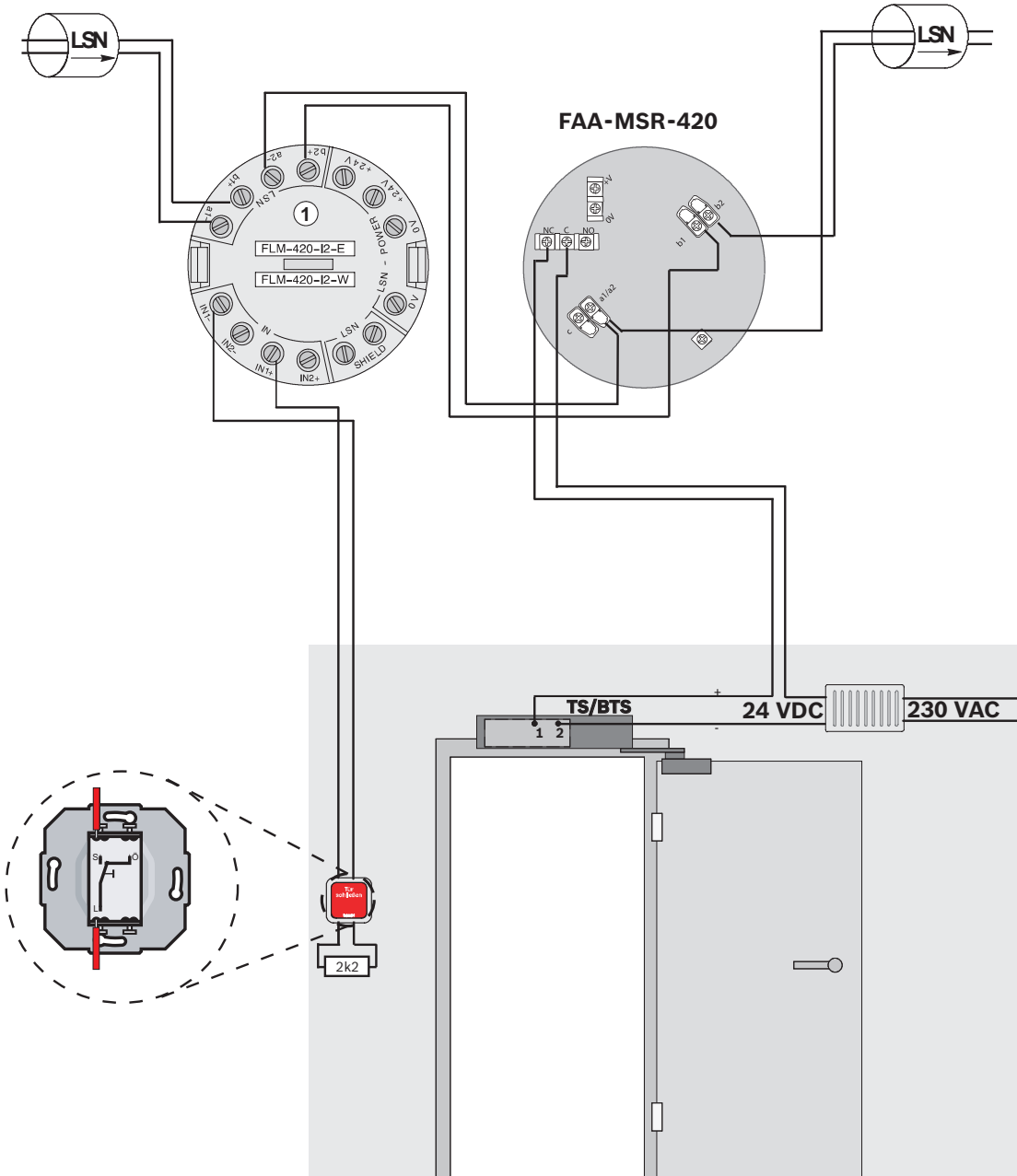
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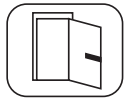




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 TS 93 EMF
 TS 93 GSR
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 BTS 80 FLB

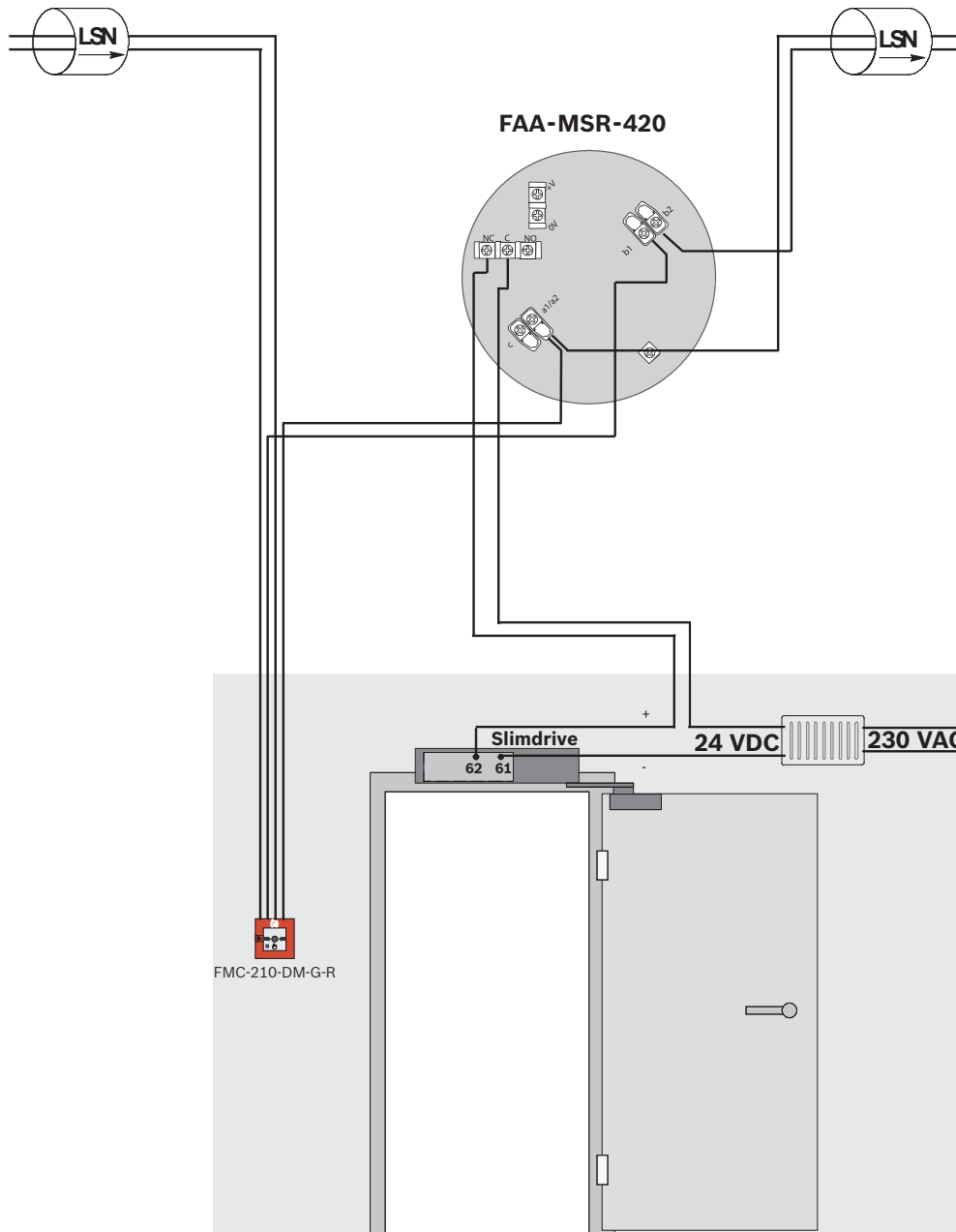
DIBT





Slimdrive EMD-F/EMD F-IS

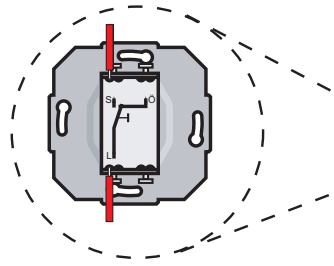
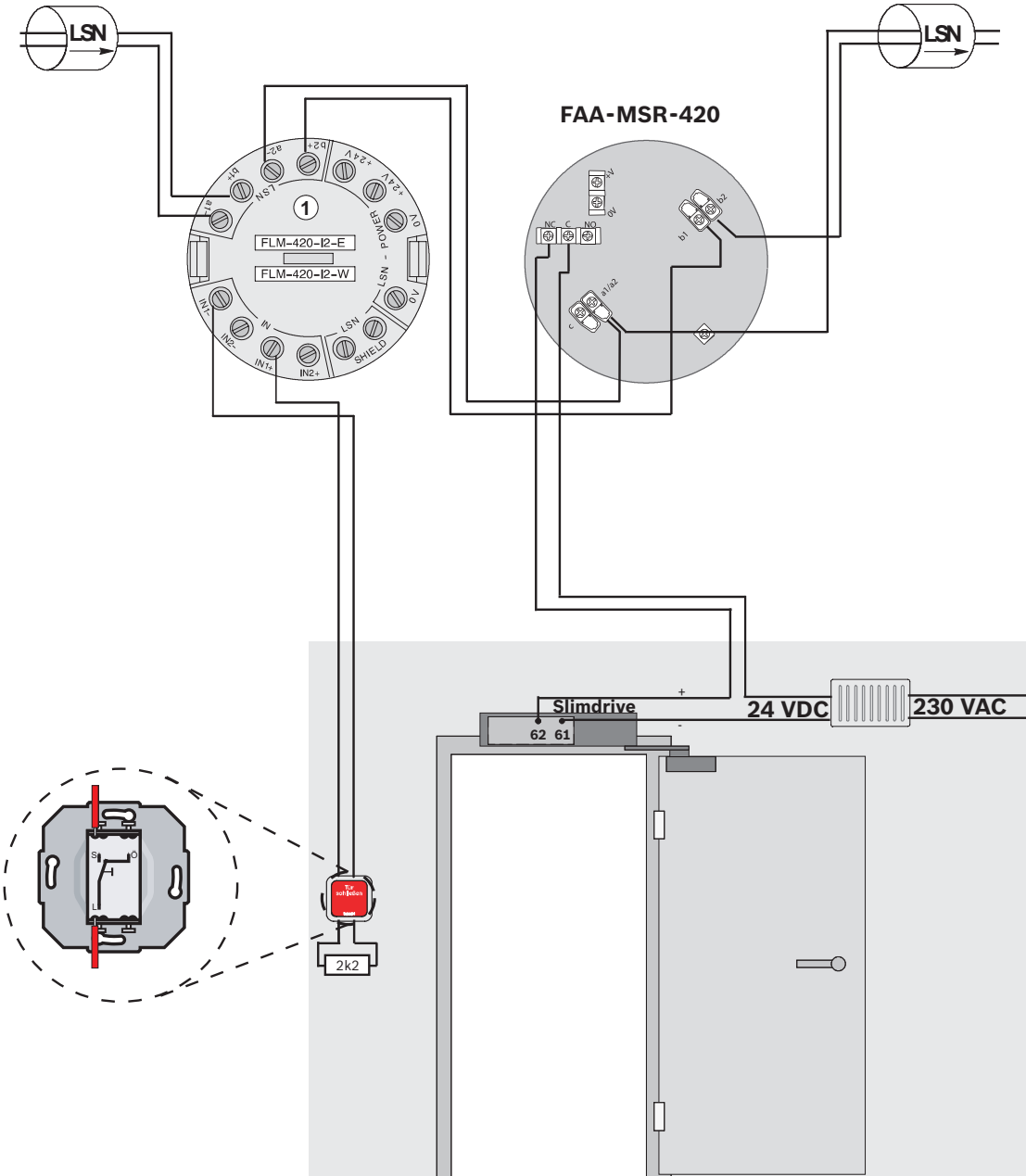
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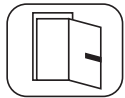




Slimdrive EMD-F/EMD F-IS

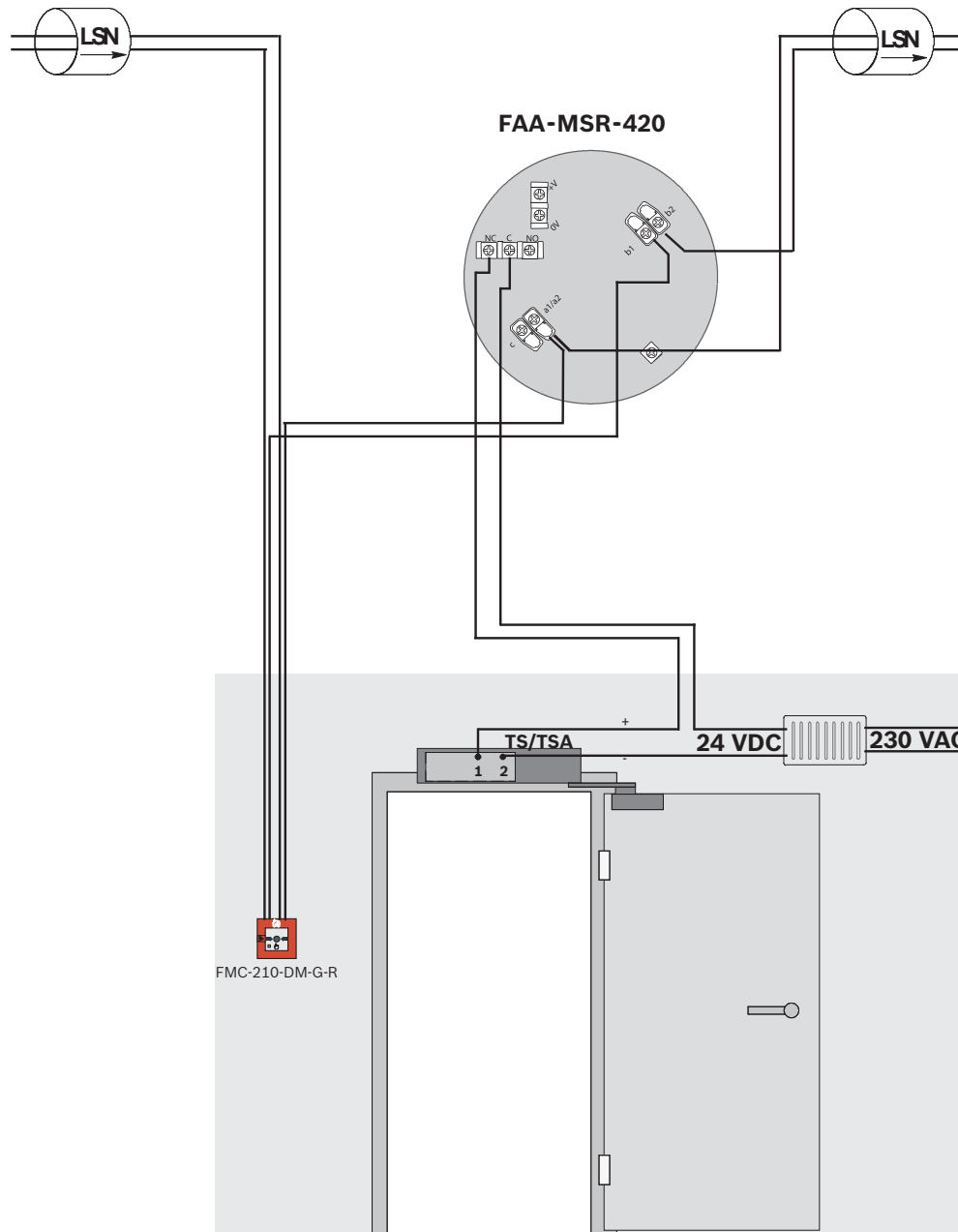
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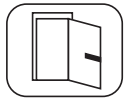




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

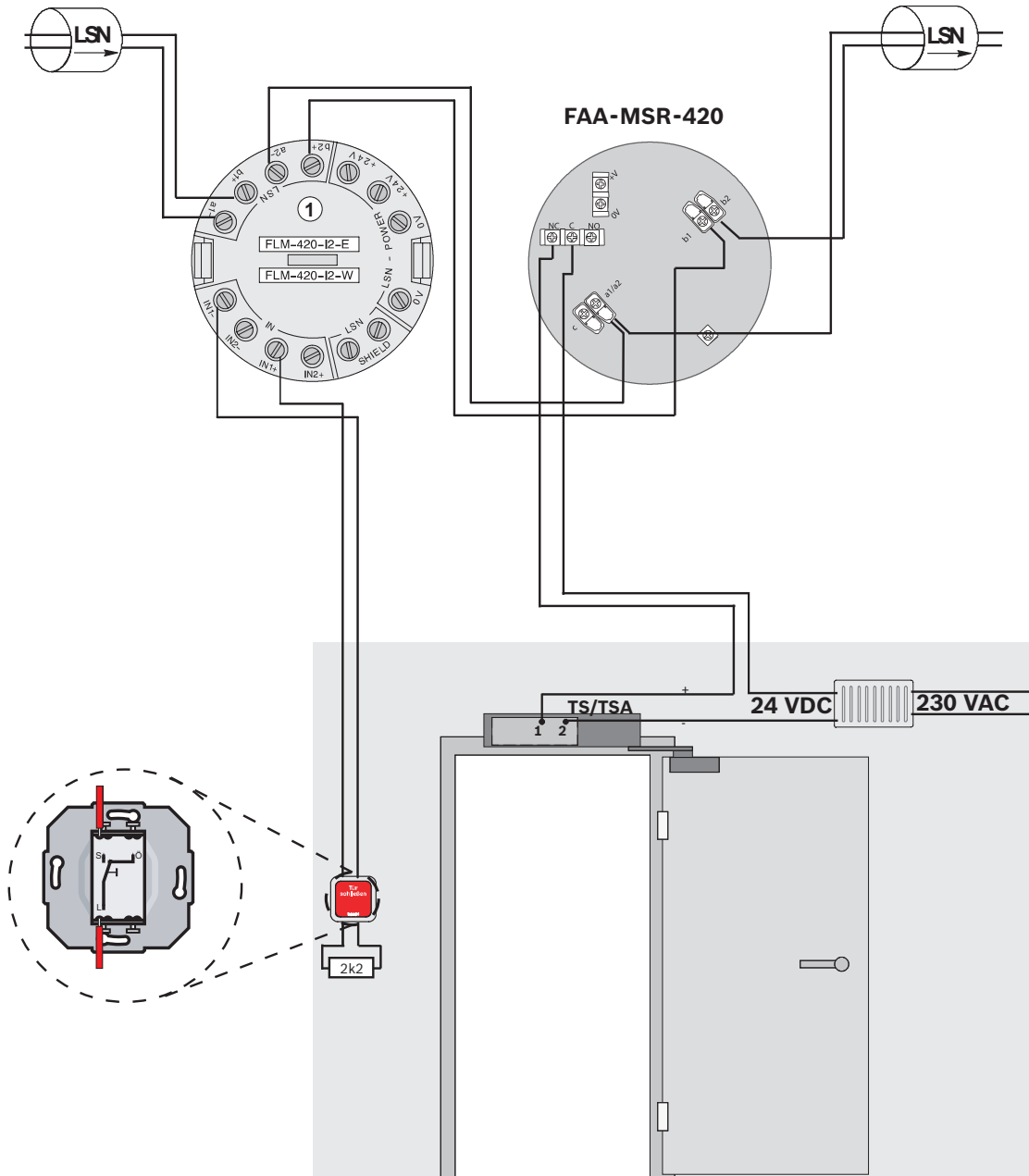
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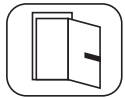




TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

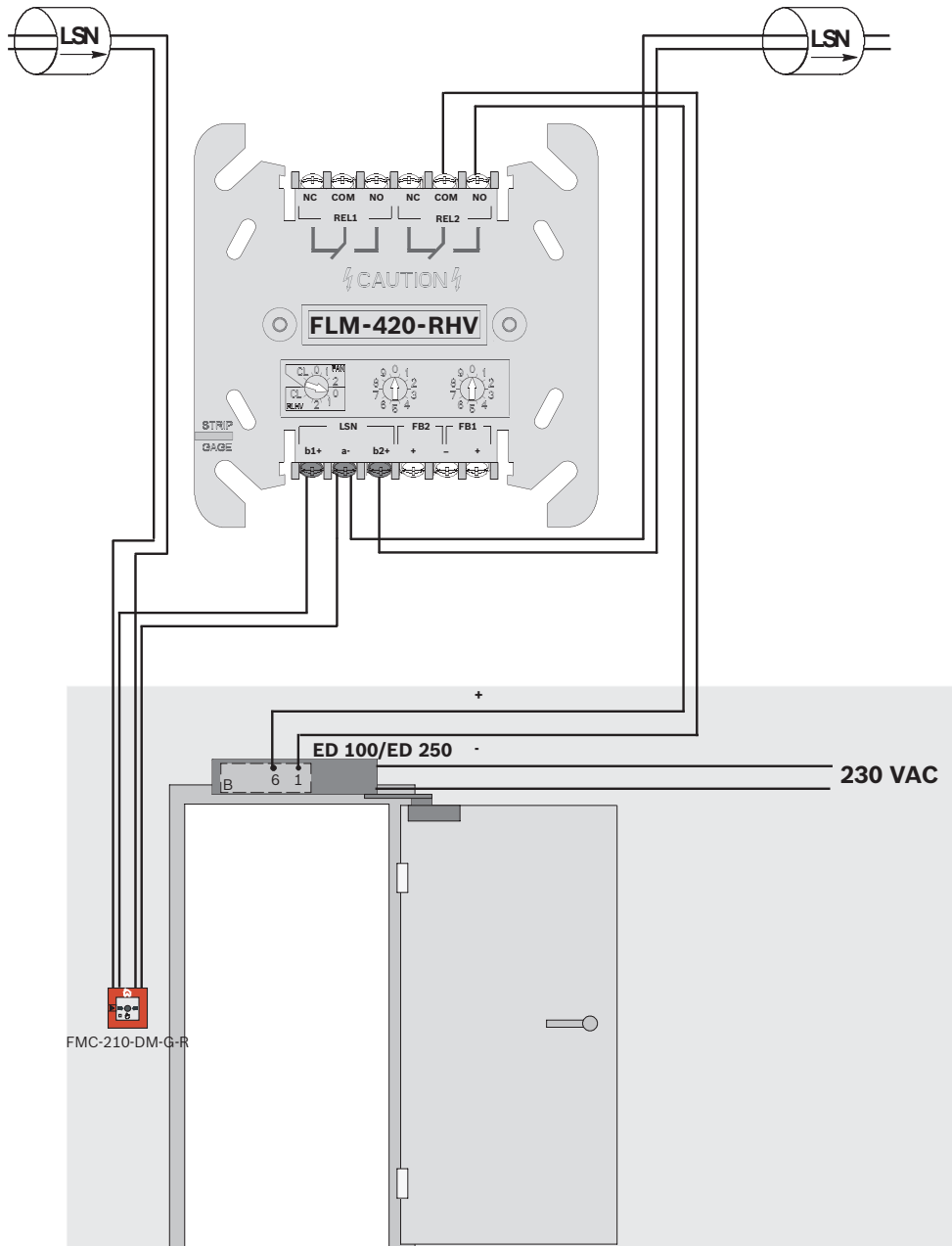
DIBT





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

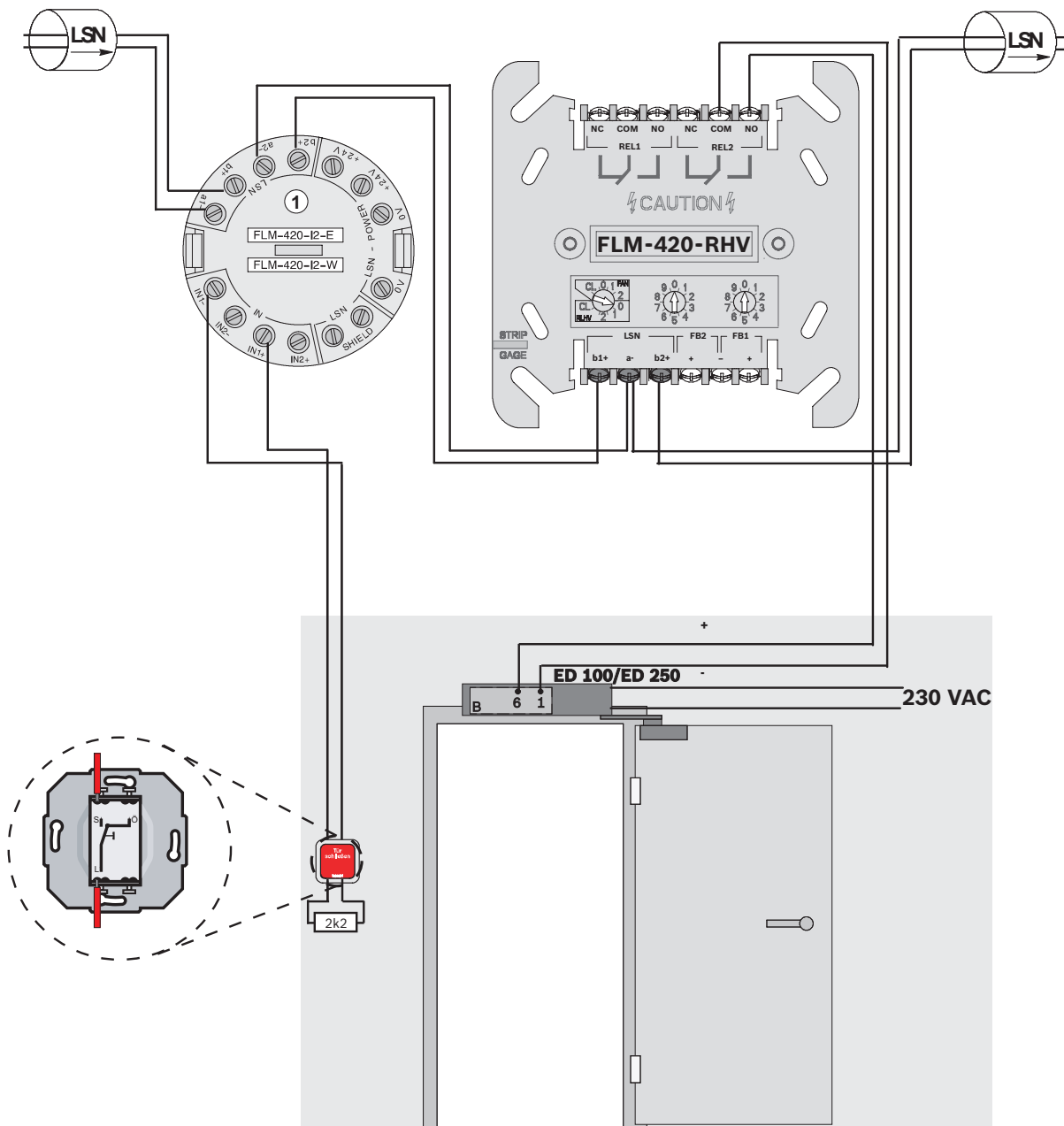
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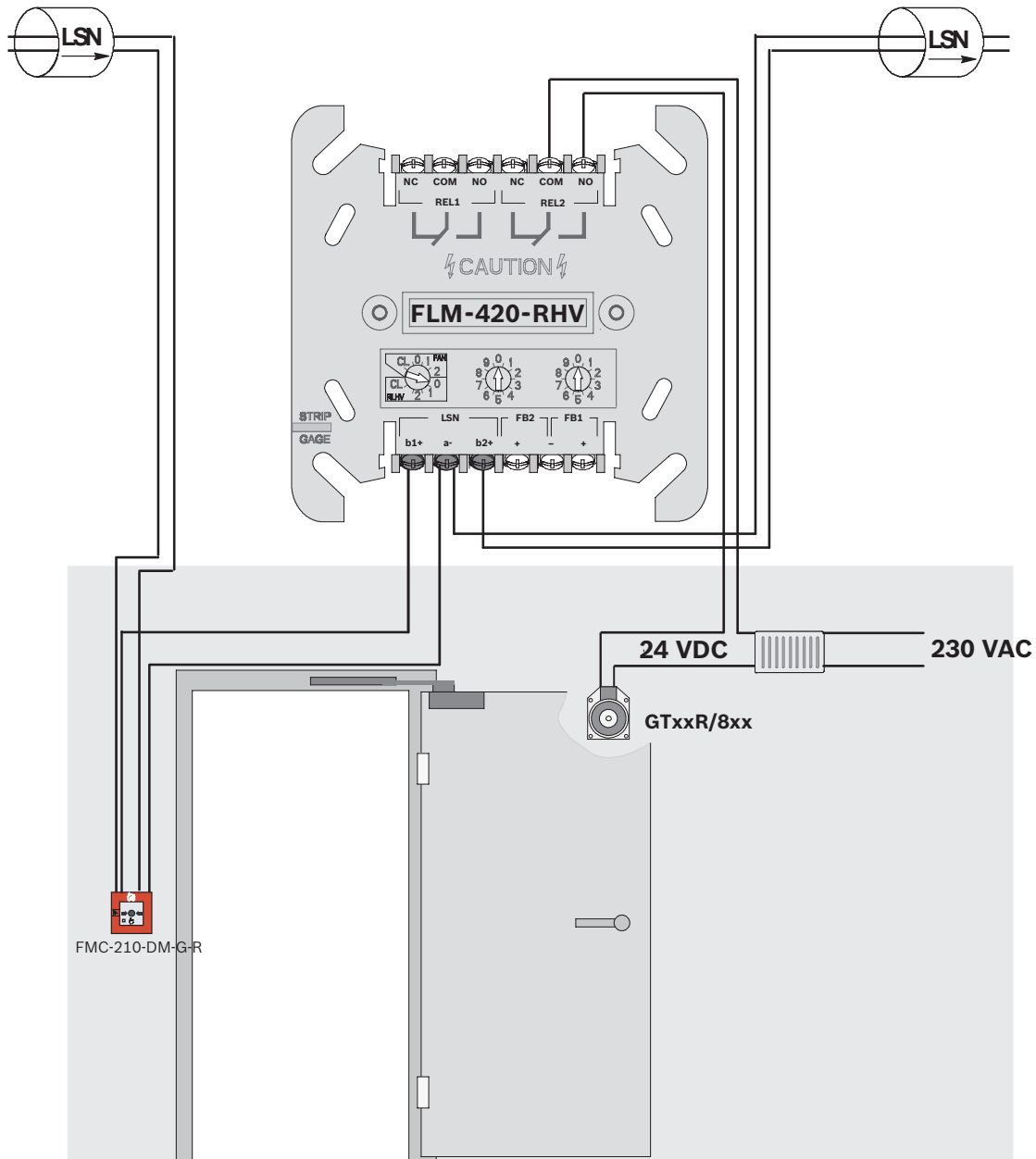
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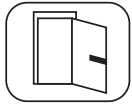
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DIBT

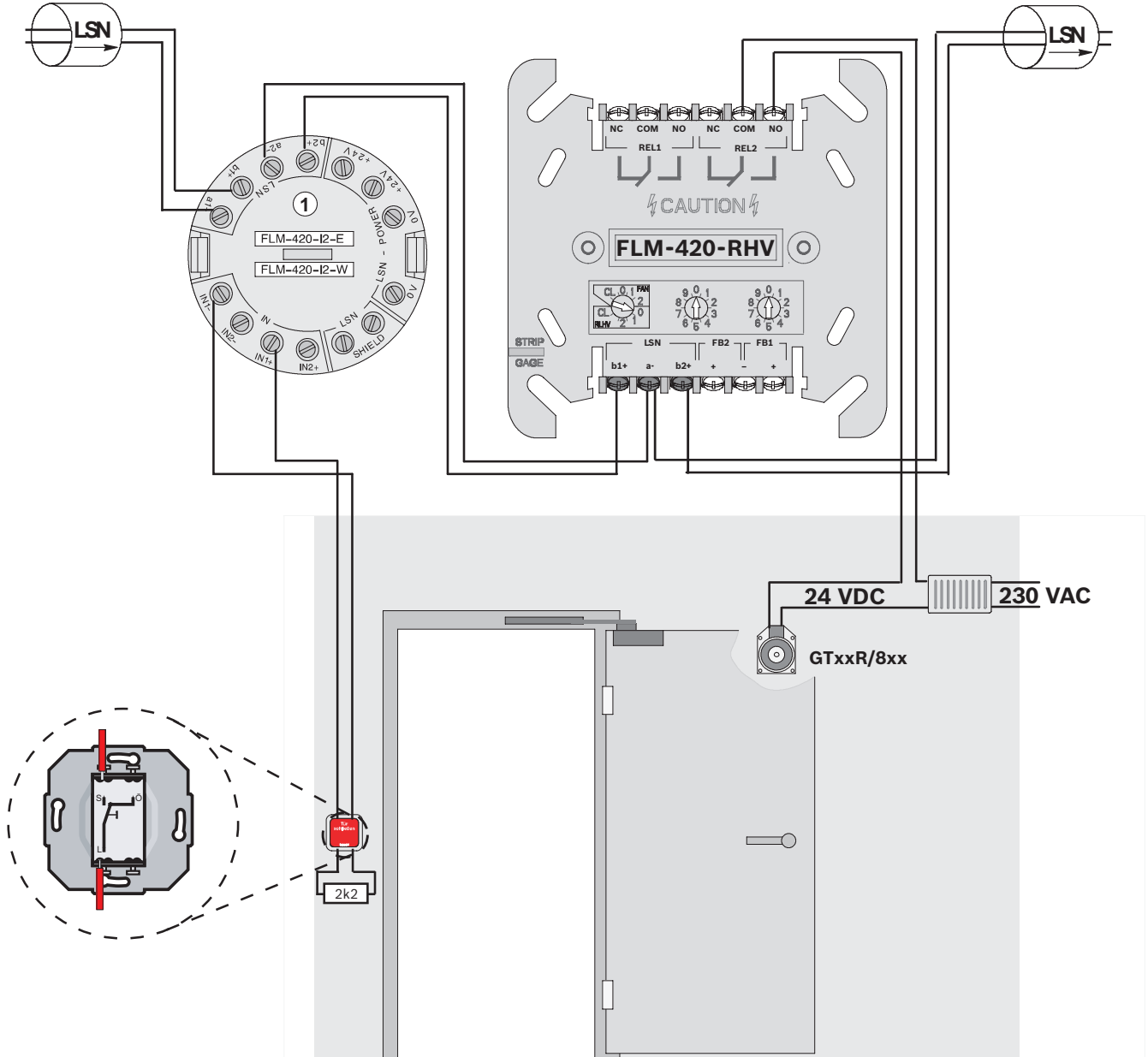


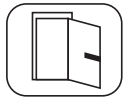


GT xx R

8 xx

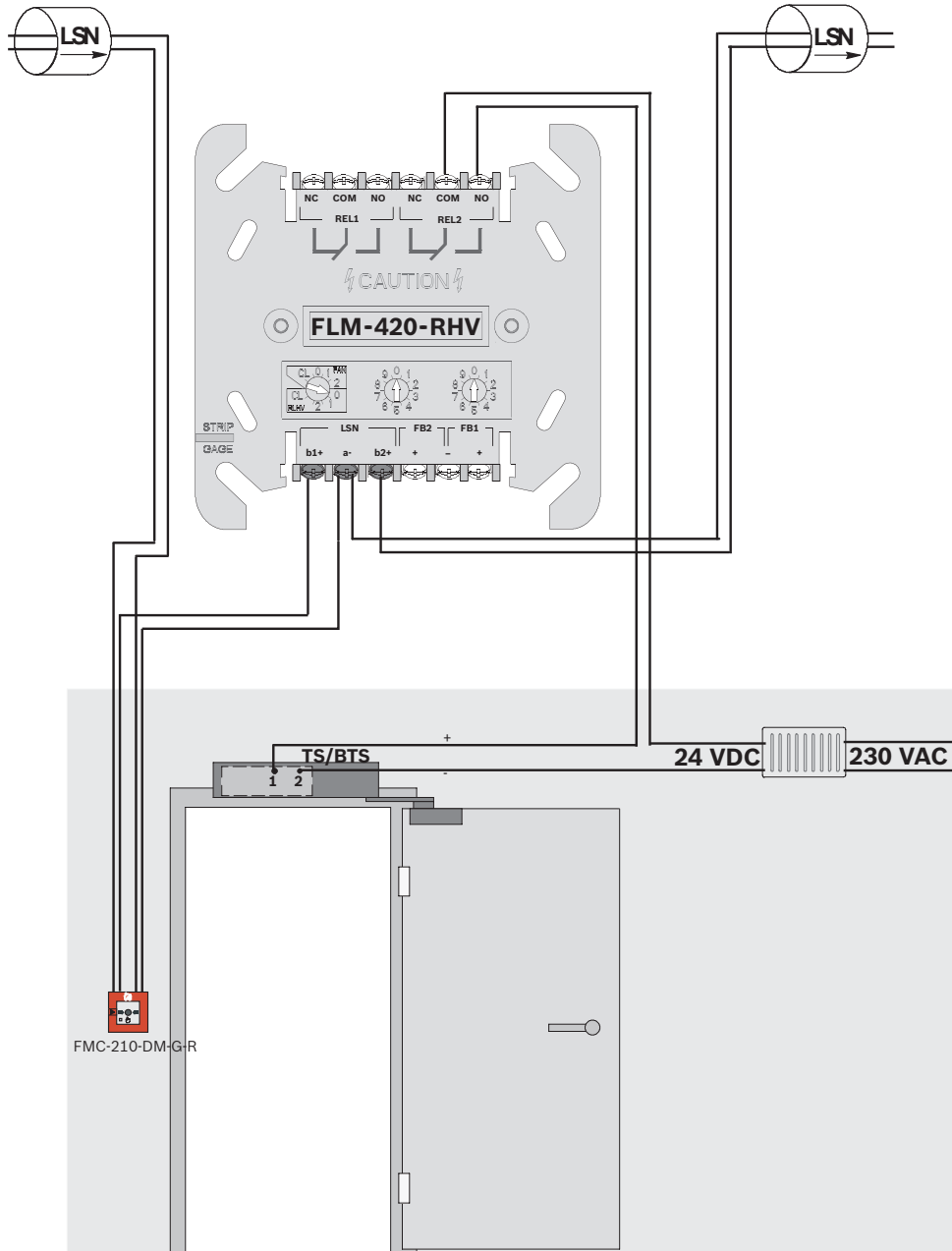
DIBT

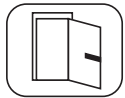




TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

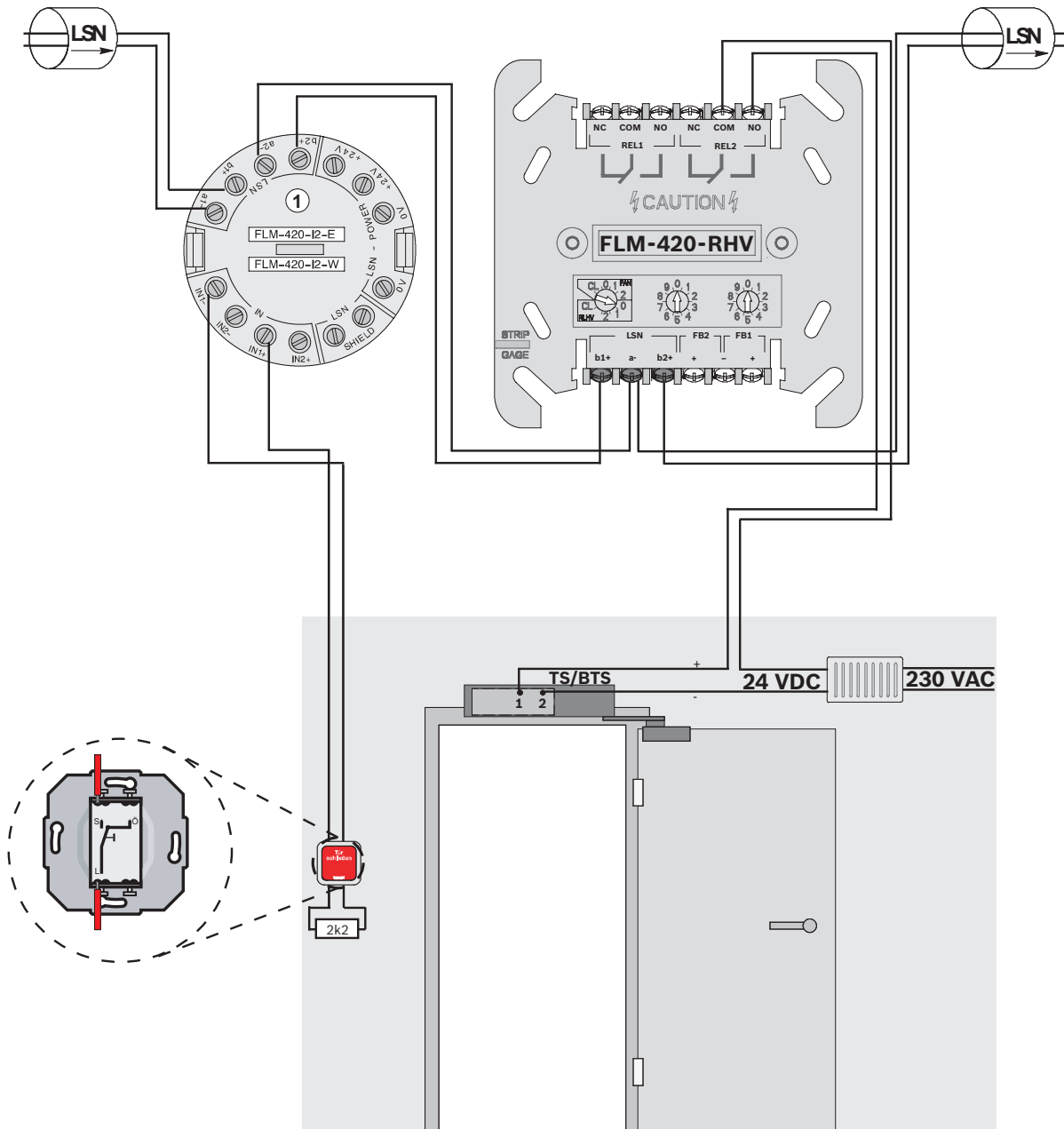
DIBT





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

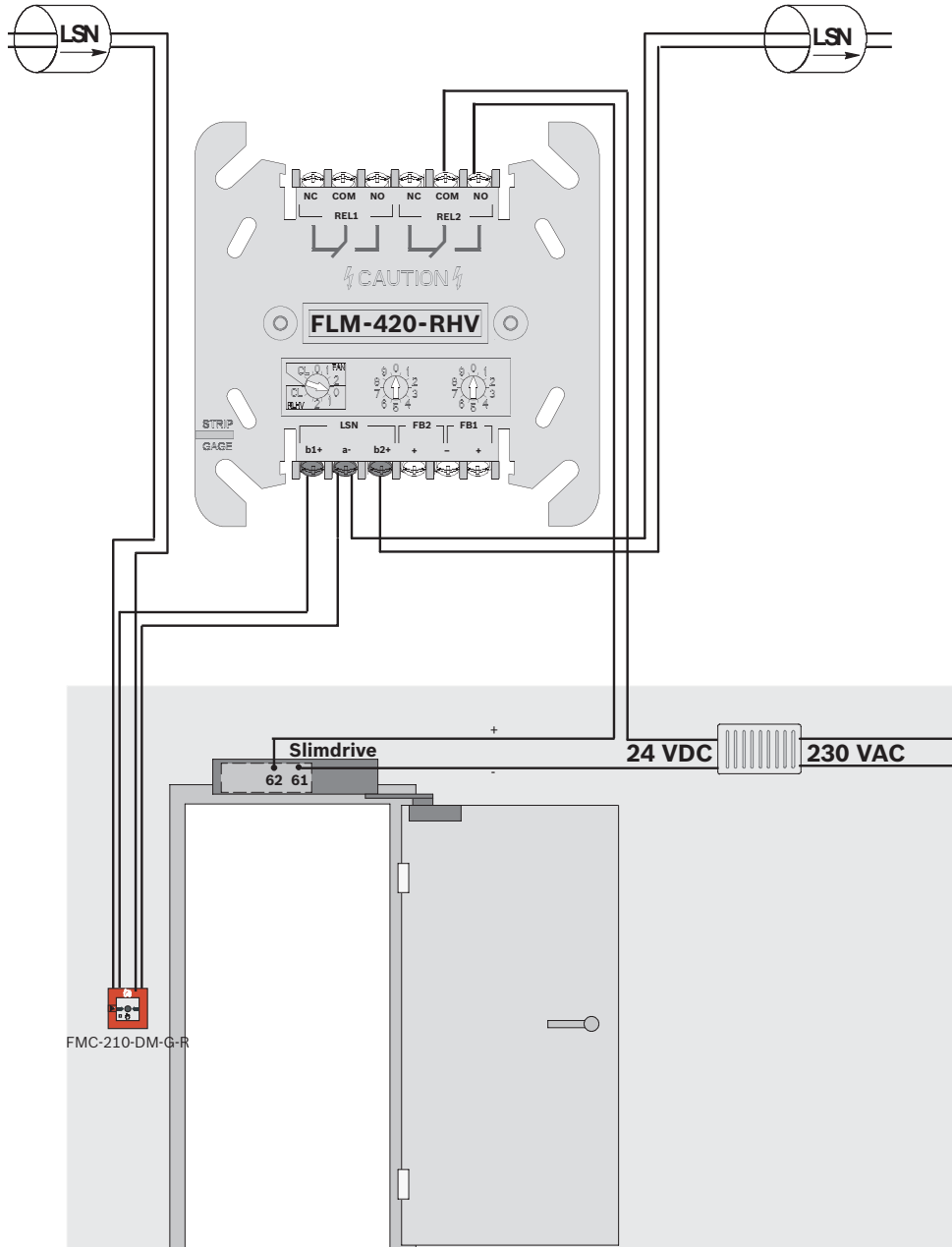
DIBT





Slimdrive EMD-F/EMD F-IS

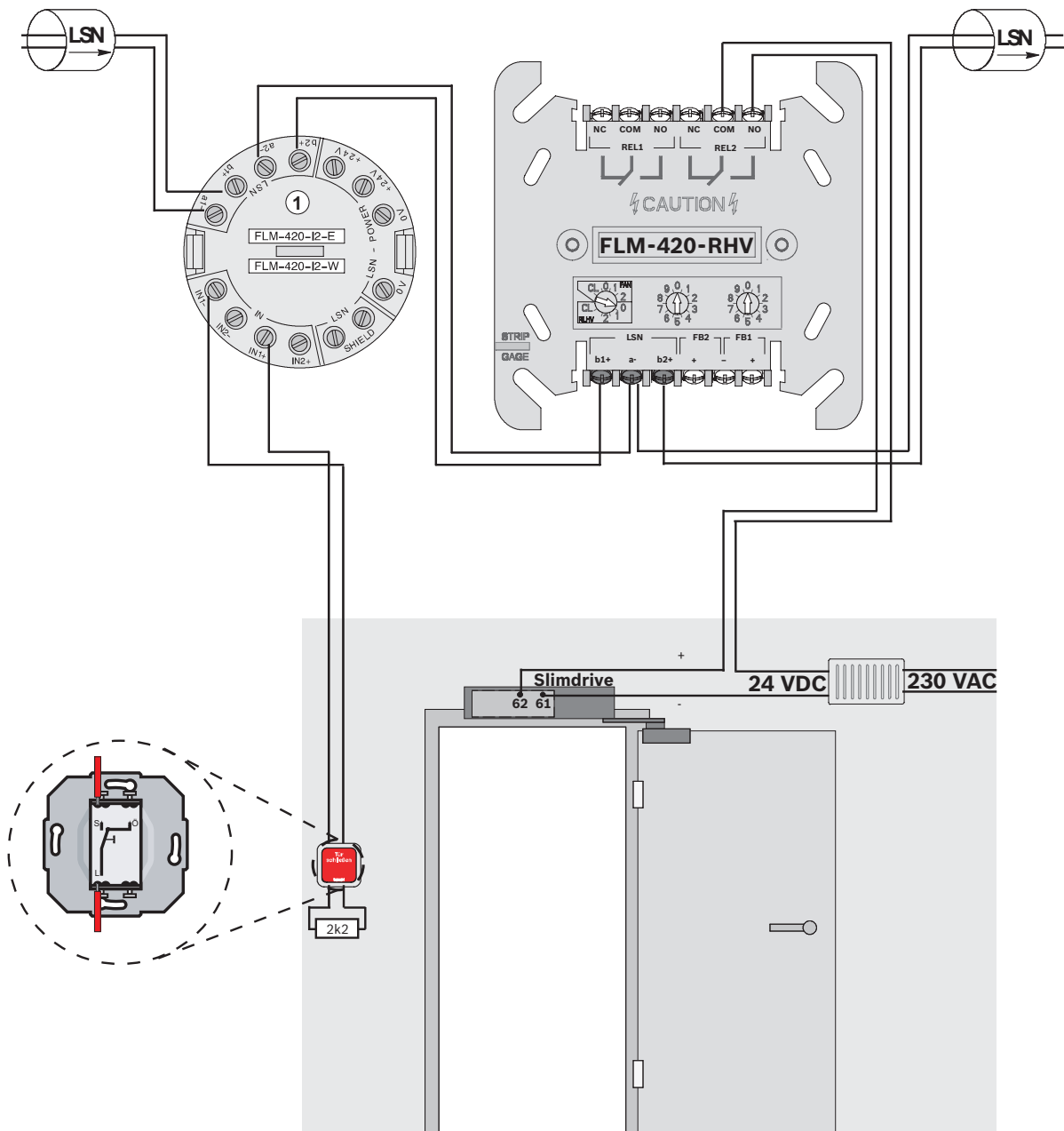
DIBT





Slimdrive EMD-F/EMD F-IS

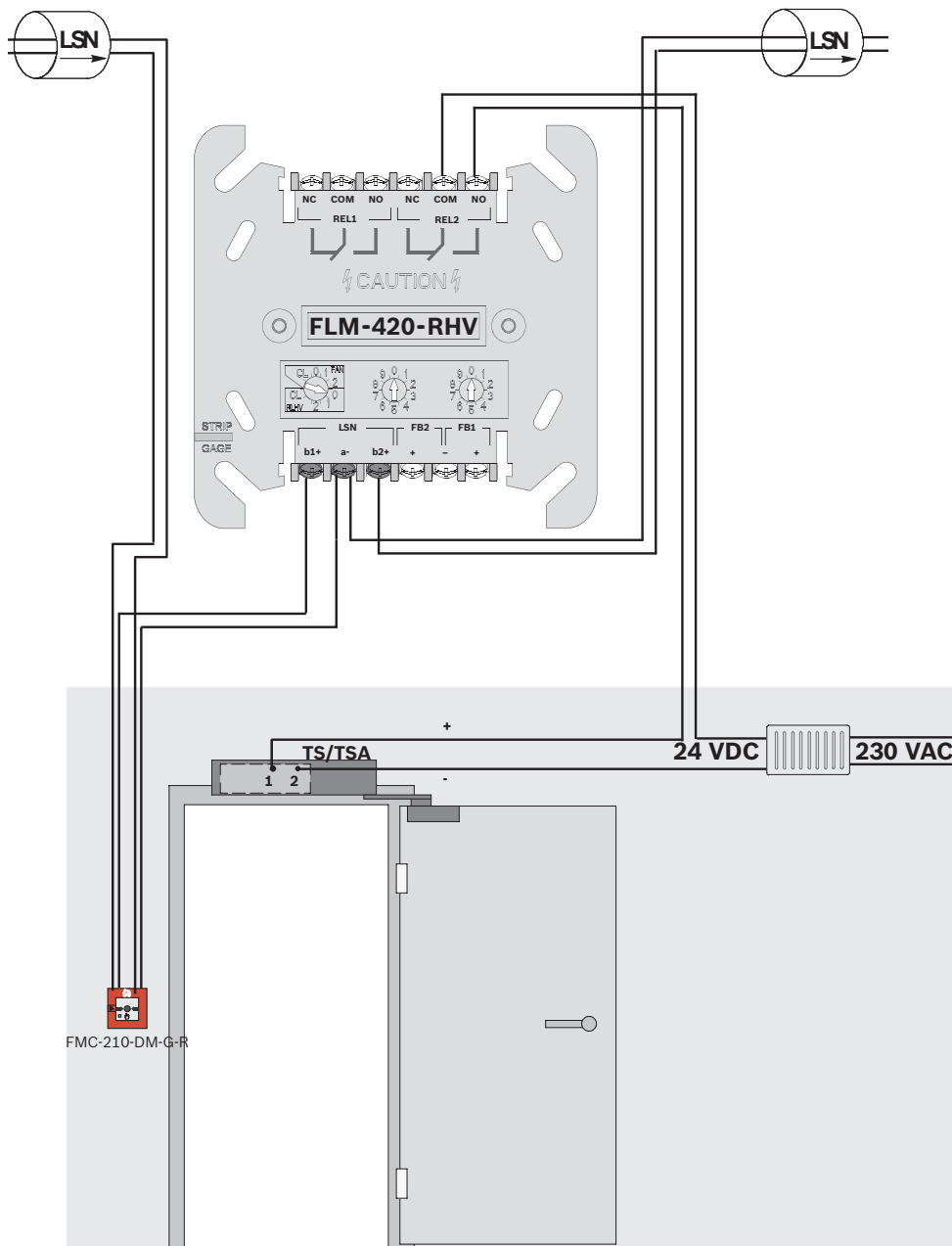
DIBT

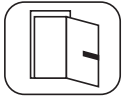




TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

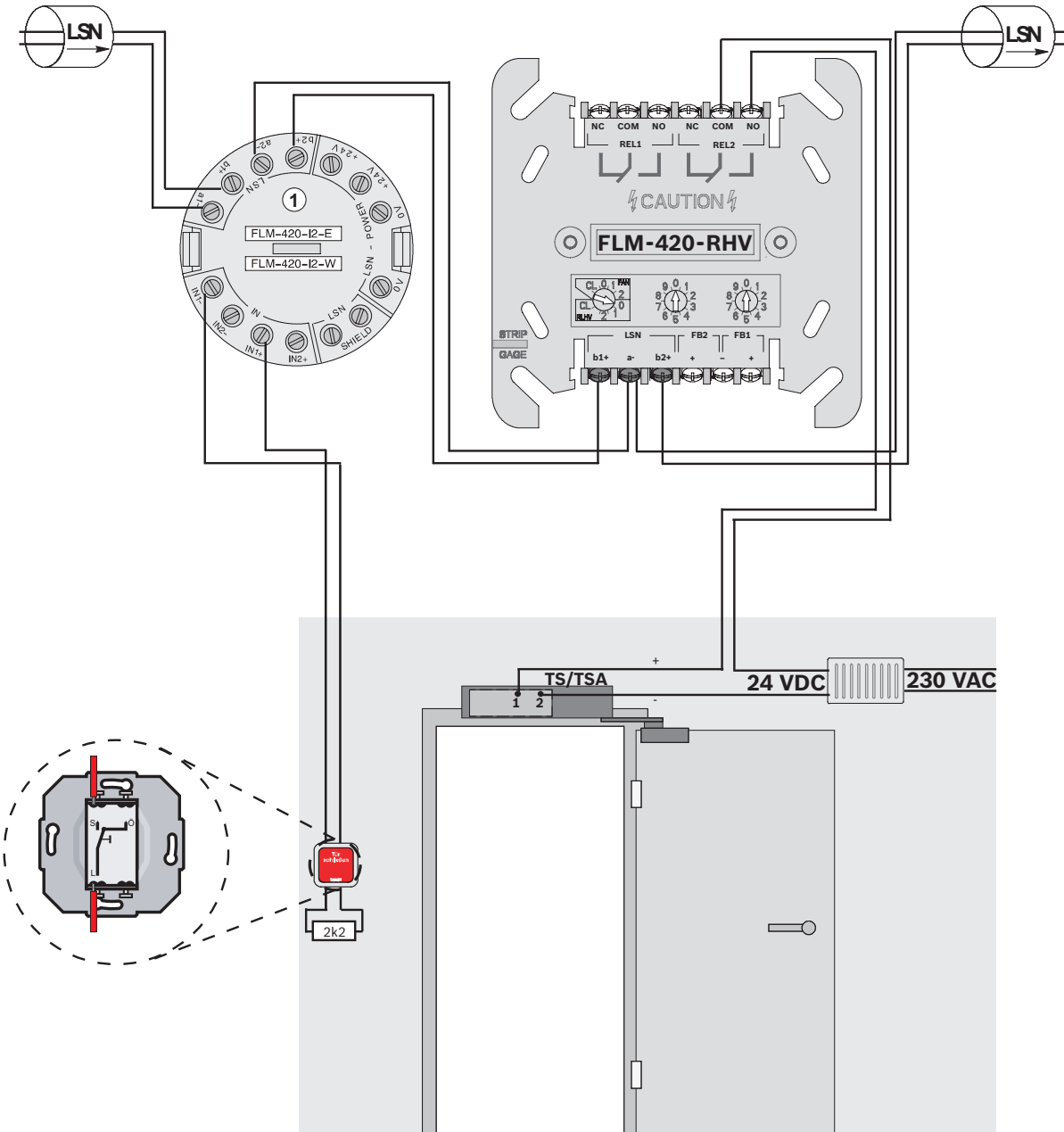
DIBT

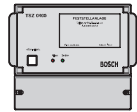
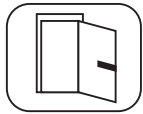




TS 400 E/E-IS/EFS
 TS 500 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

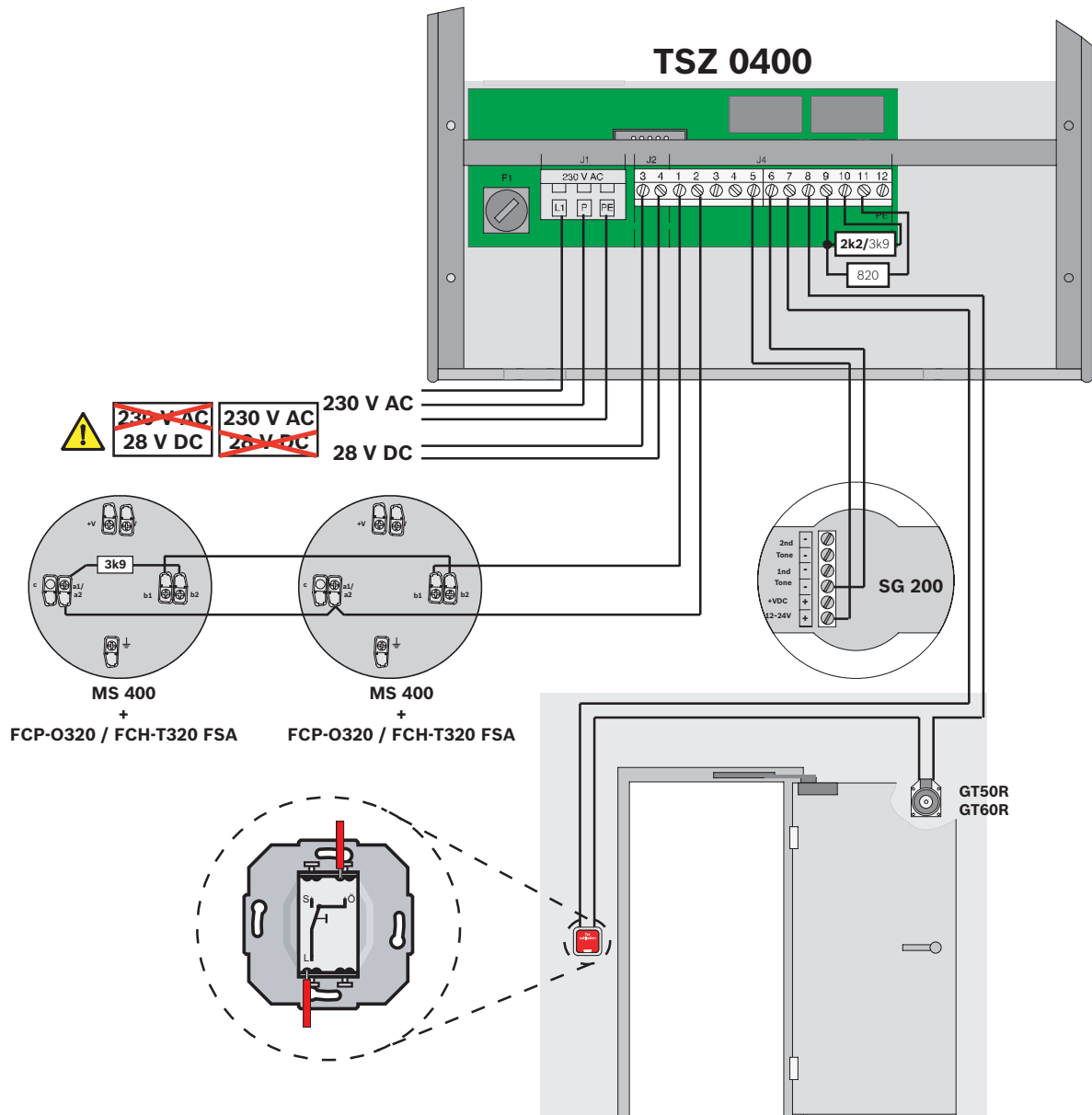
DIBT

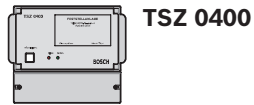
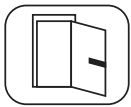




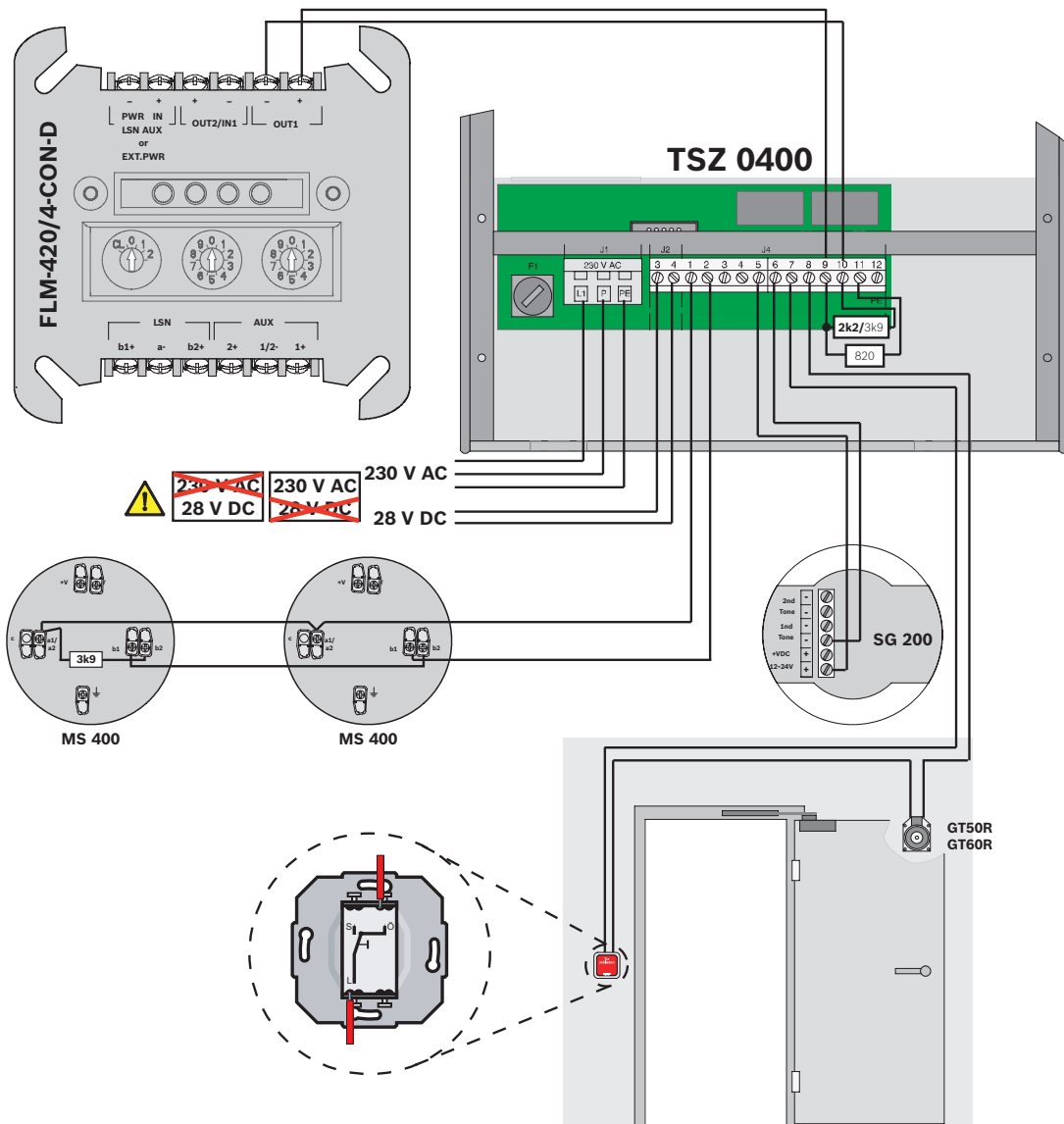
TSZ 0400

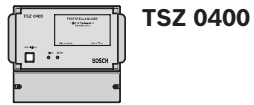
DIBT



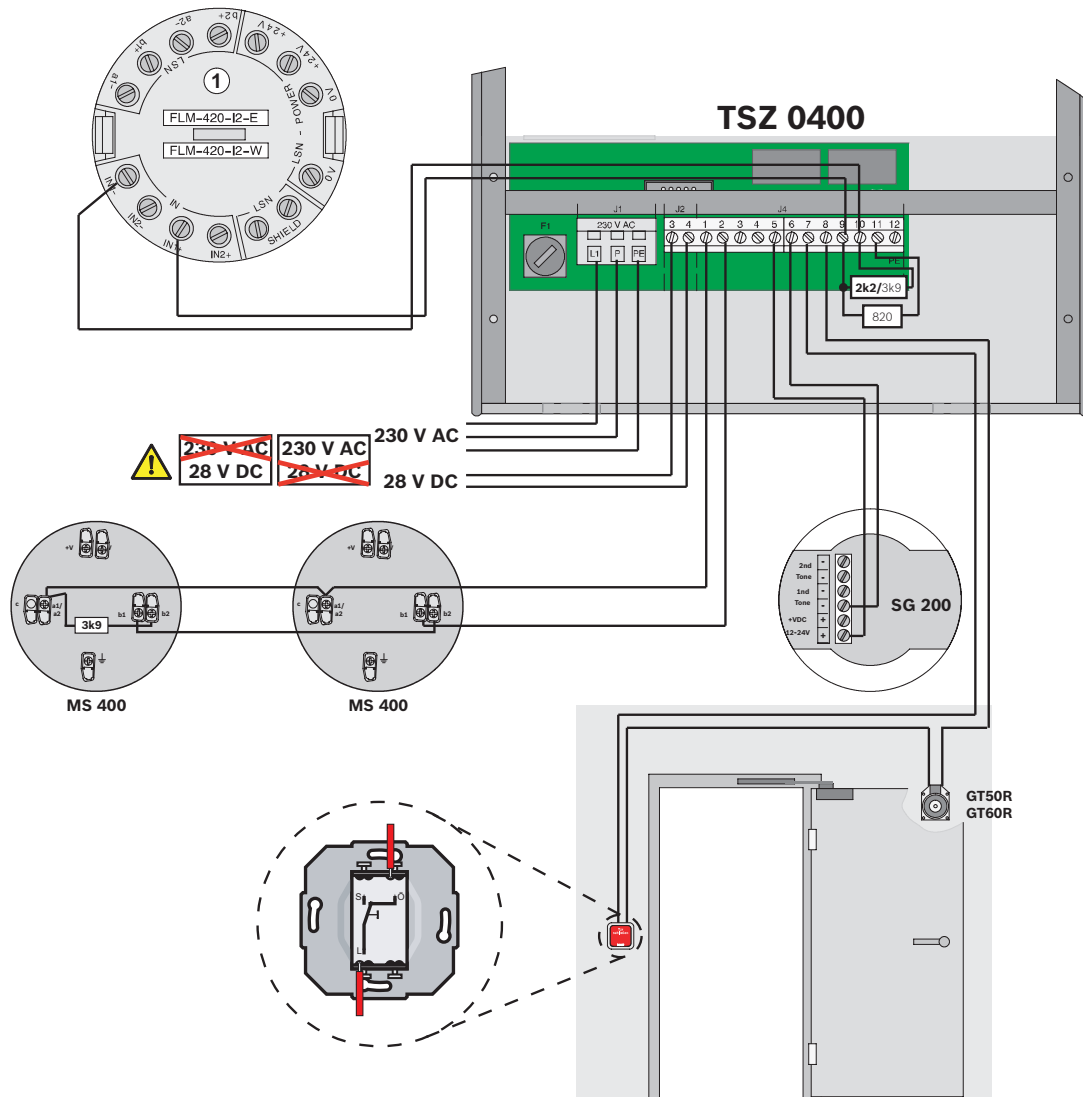


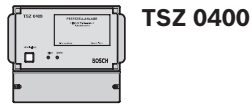
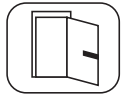
DIBT



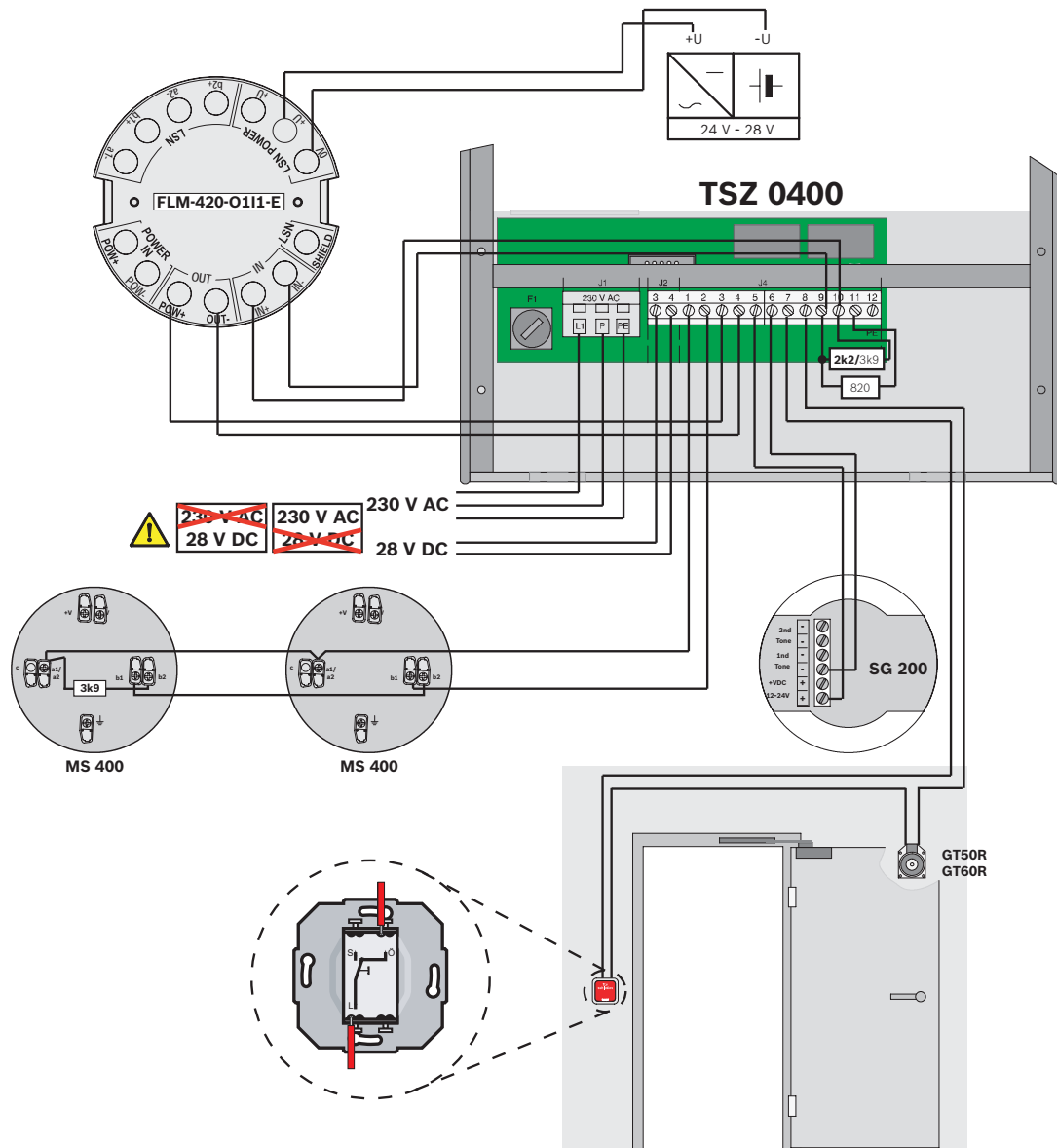


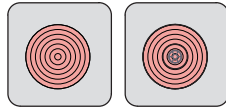
DIBT



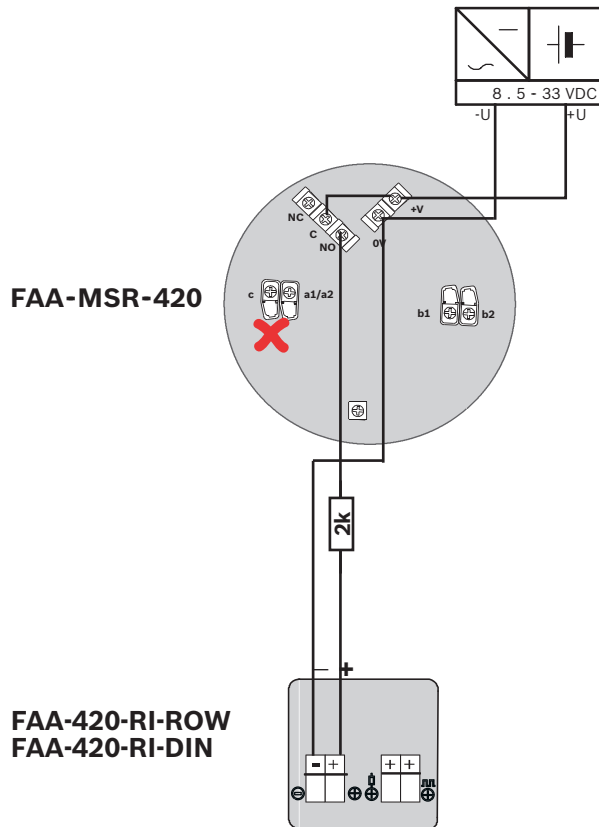
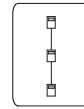


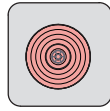
DIBT



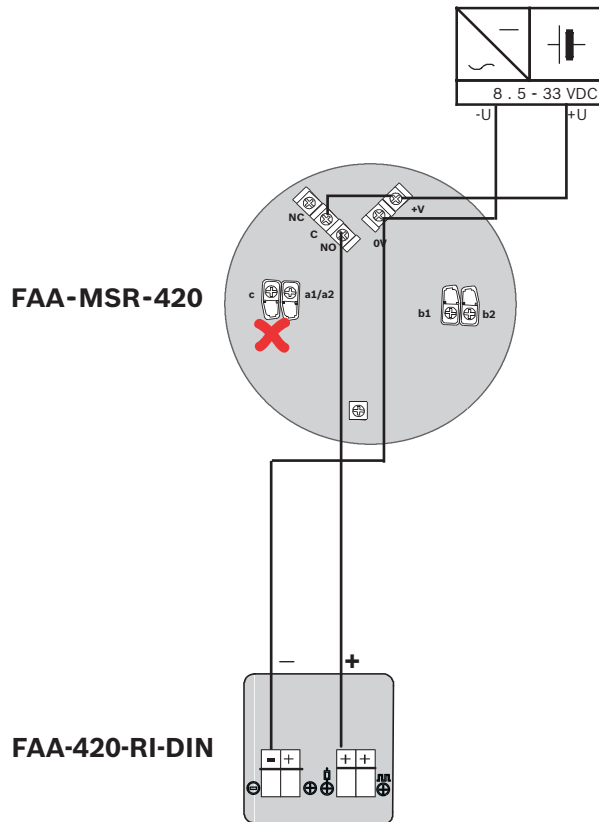
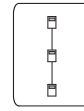


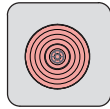
FAA-420-RI-ROW
FAA-420-RI-DIN



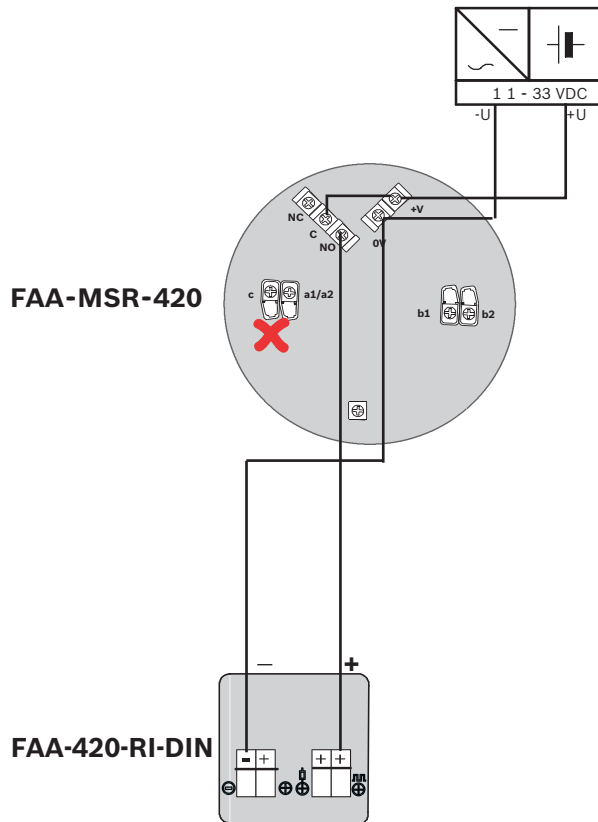
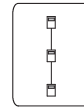


FAA-420-RI-DIN





FAA-420-RI-DIN



2.4

Functional Modules



BCM-000-B, página 43

CZM 0004 A, página 45

ENO 0000 A/B, página 61

LSN 0300 A, página 68

NZM 0002 A, página 106

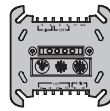
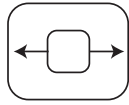
RMH 0002 A, página 119

IOS 0020 A, página 120

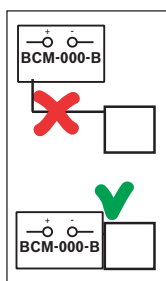
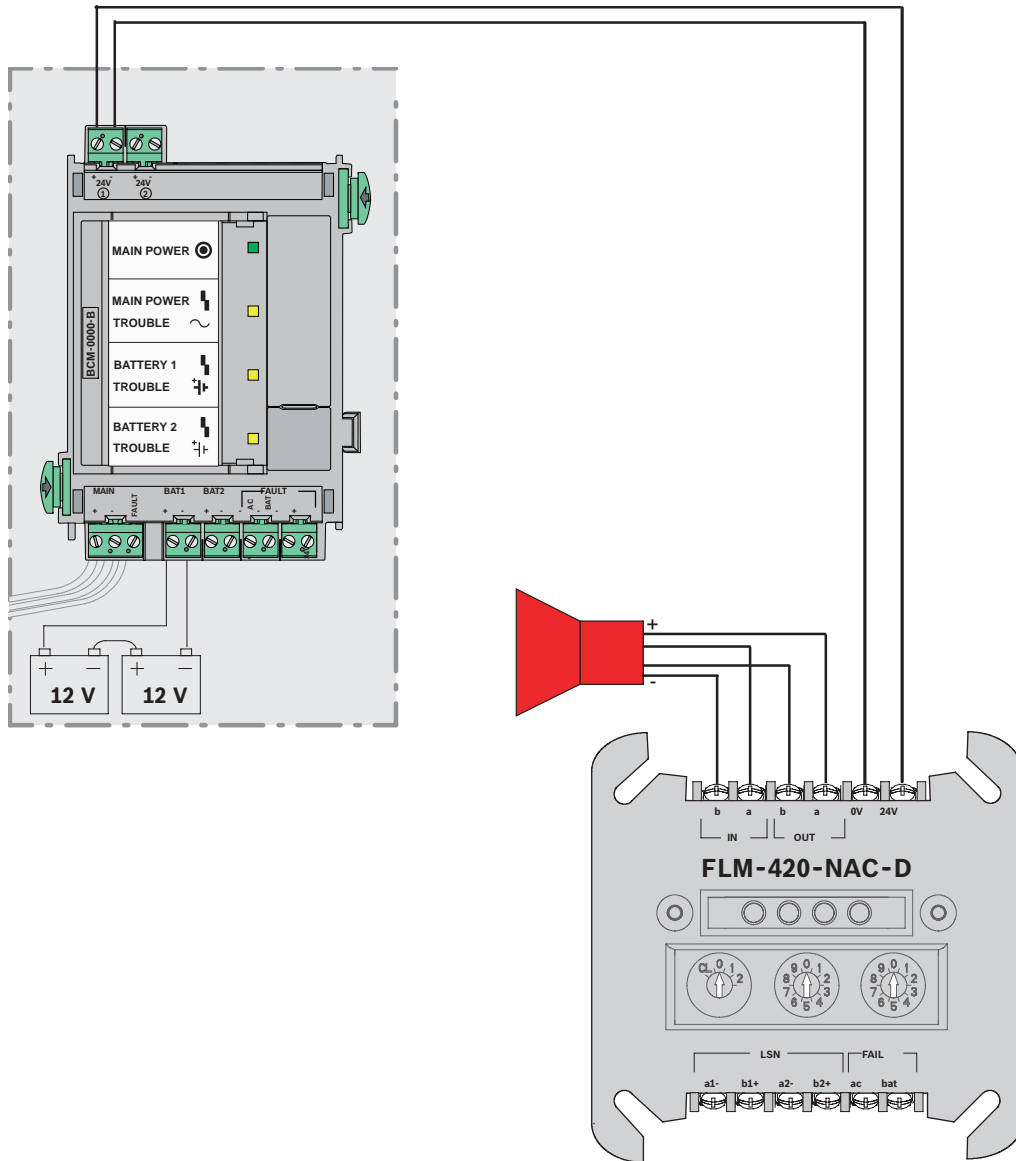
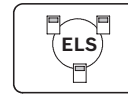
FPE-5000-UGM, página 122

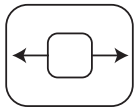
2.4.1

BCM-000-B

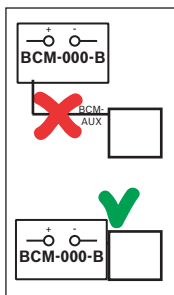
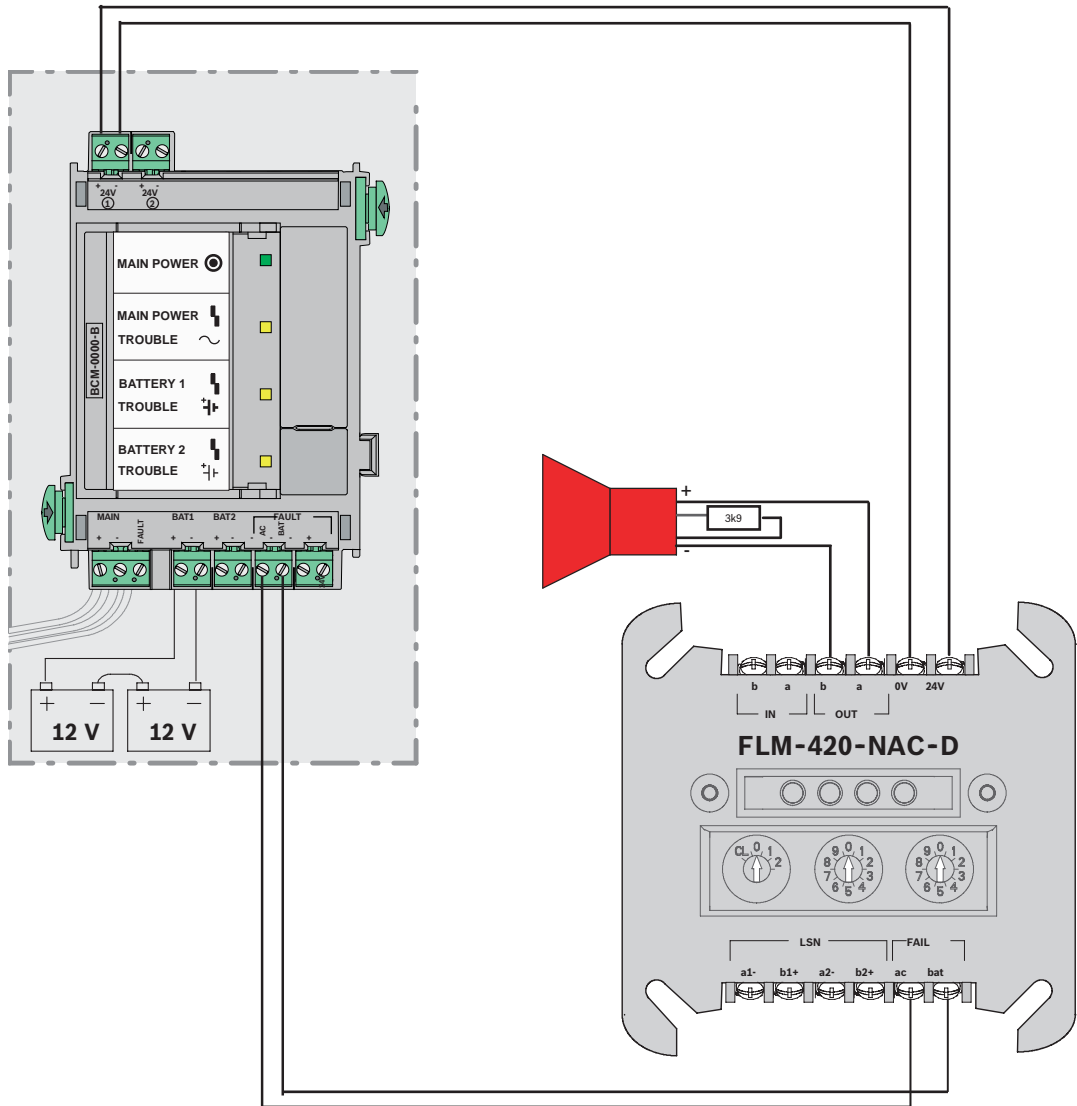
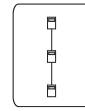


FLM-420-NAC-D





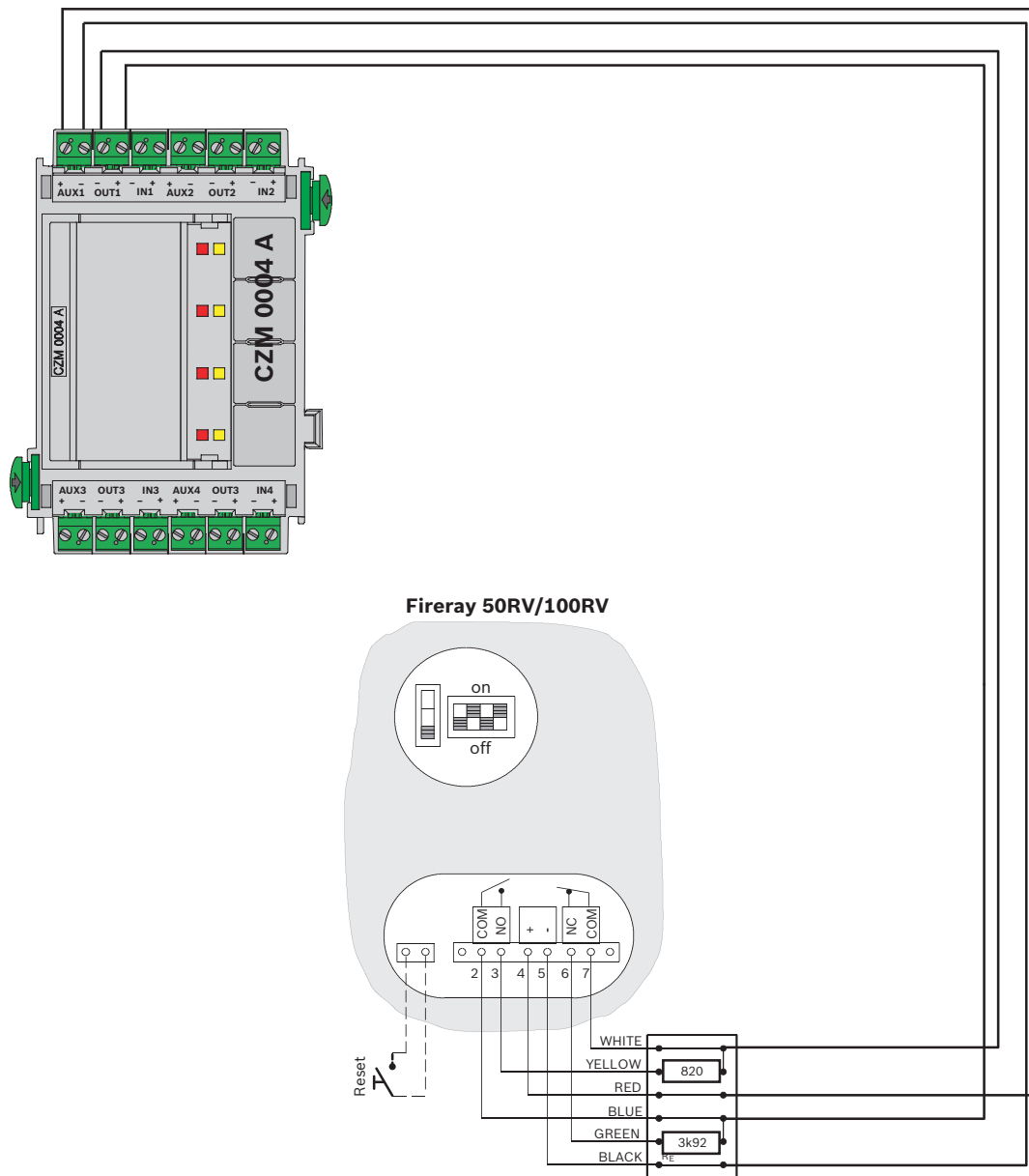
FLM-420-NAC-D



2.4.2 CZM 0004 A



Firearay 50RV
Firearay 100RV



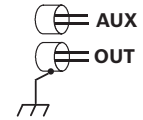
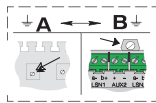
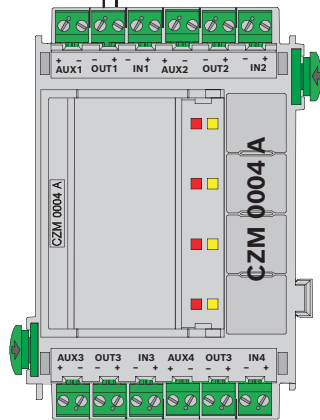


FIRERAY3000

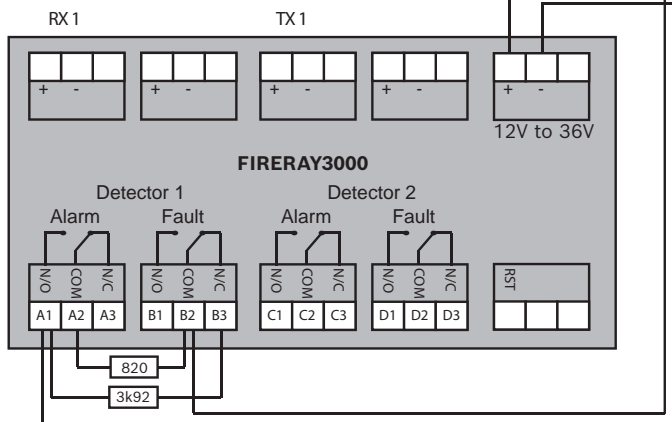
1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

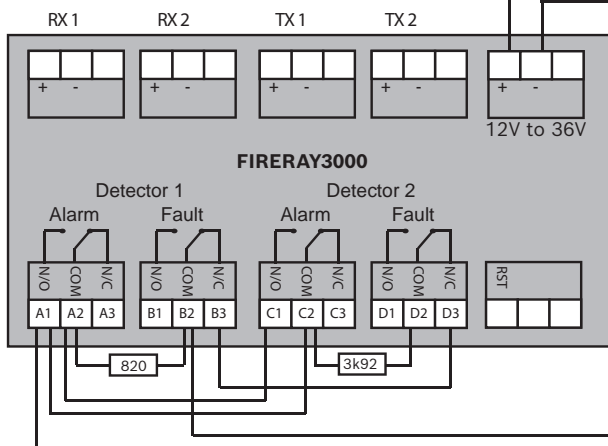
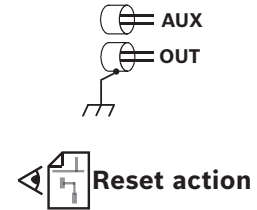
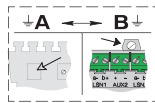
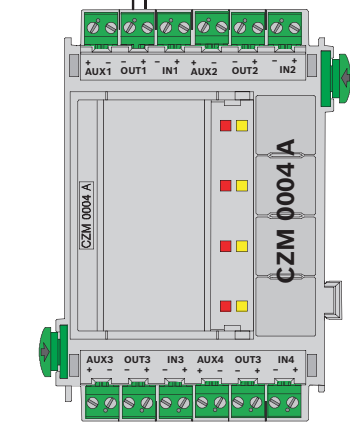




FIRERAY3000
2 x  **OUT1**



BCM-0000-B
LSN 0300 A
LSN 1500 A



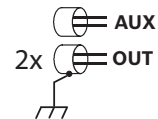
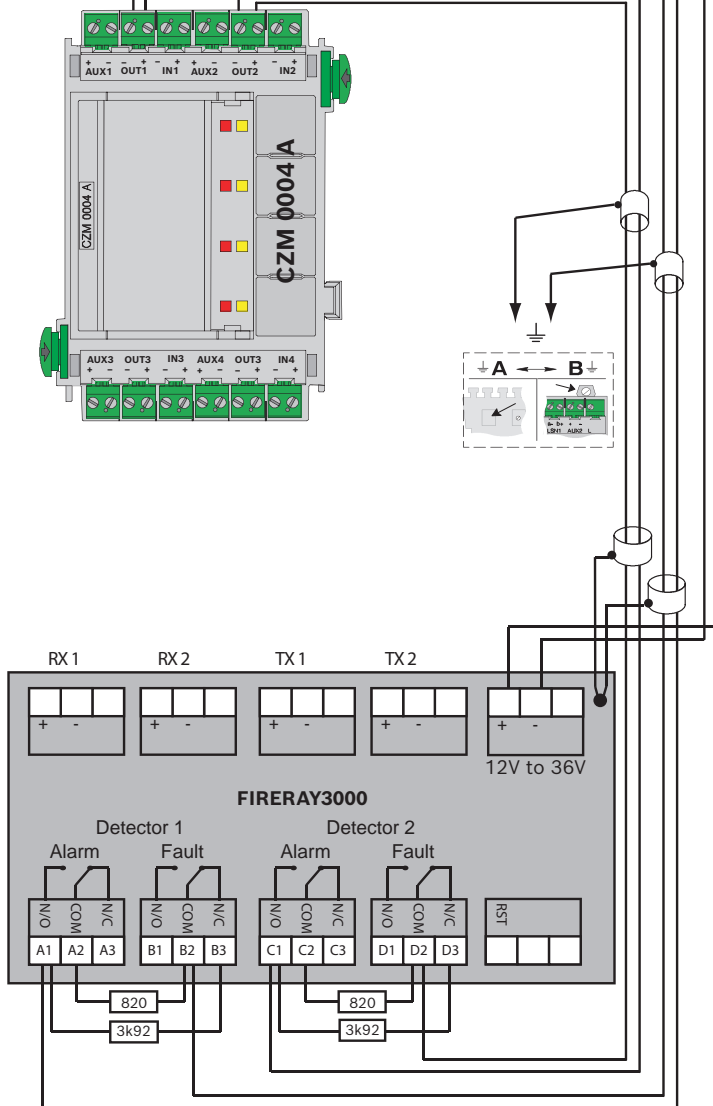


FIRERAY3000

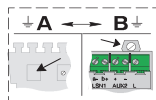
2 x **OUT1+2**



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action



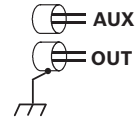
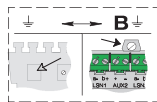
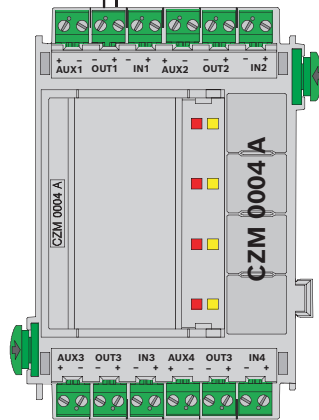


FIRERAY5000

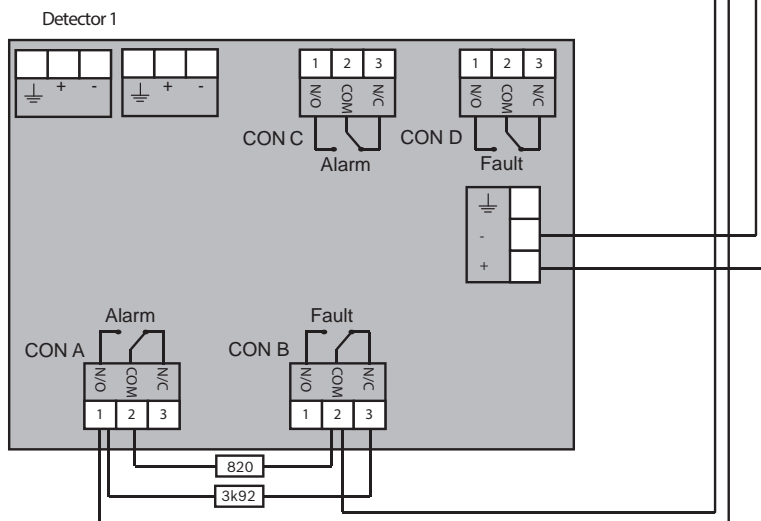
1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A



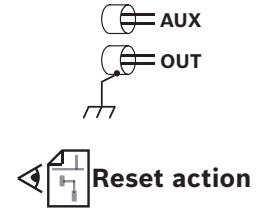
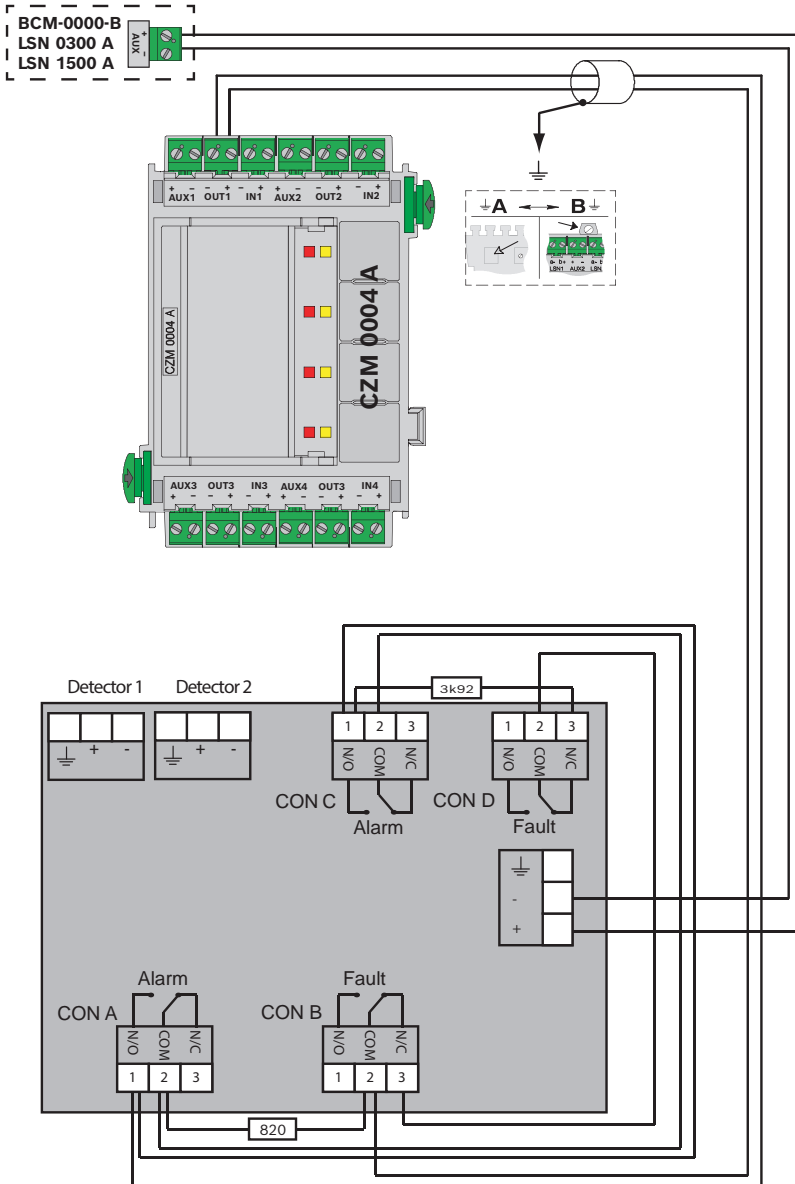
Reset action

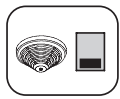




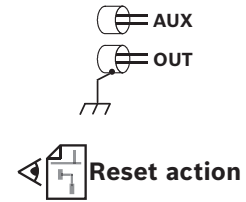
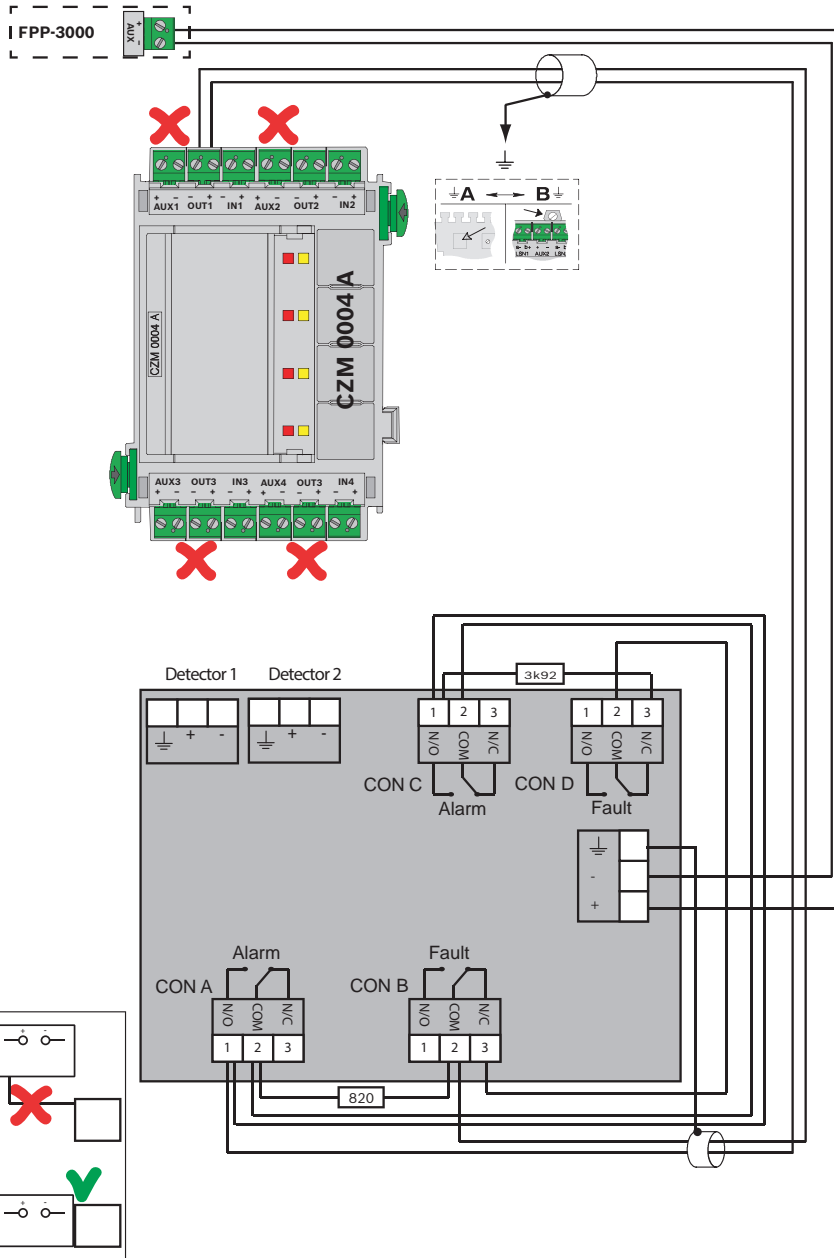
FIRERAY5000

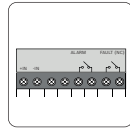
2 x OUT1



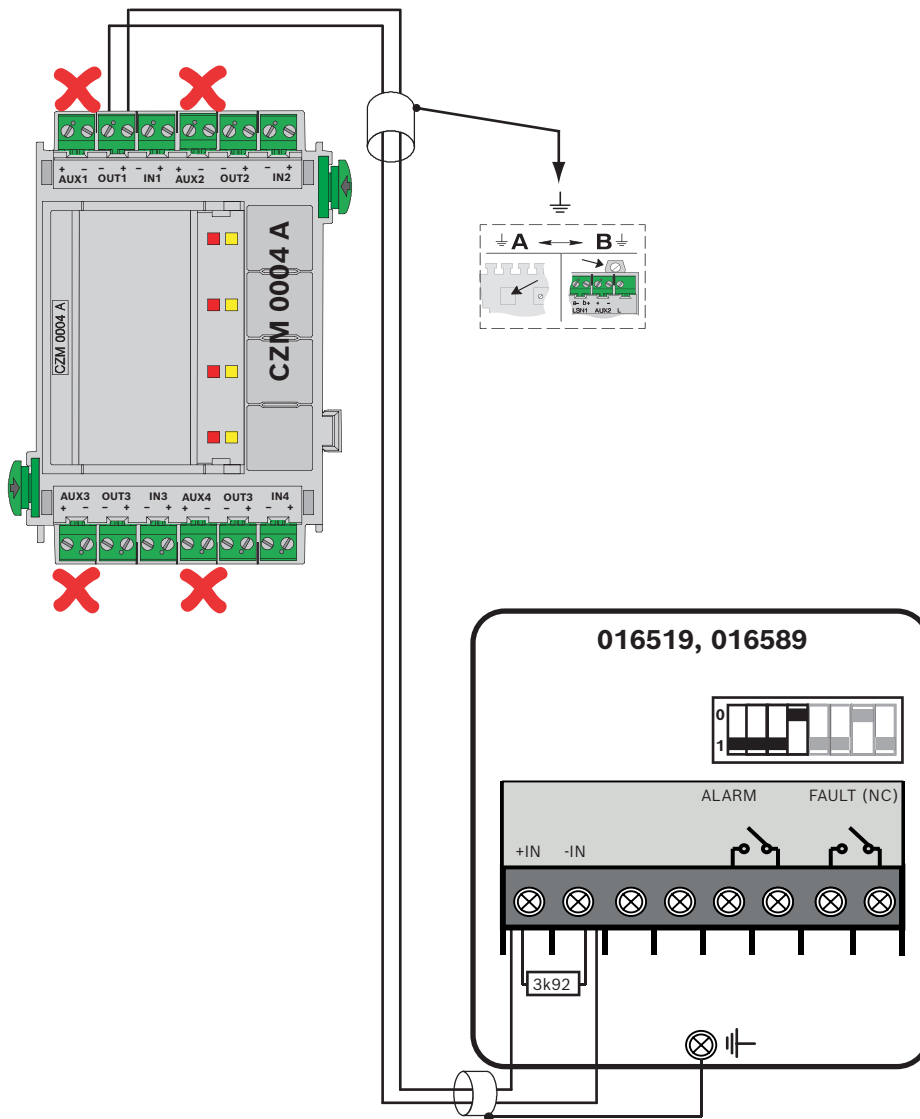
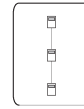


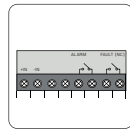
FIRERAY5000
2 x **OUT1**



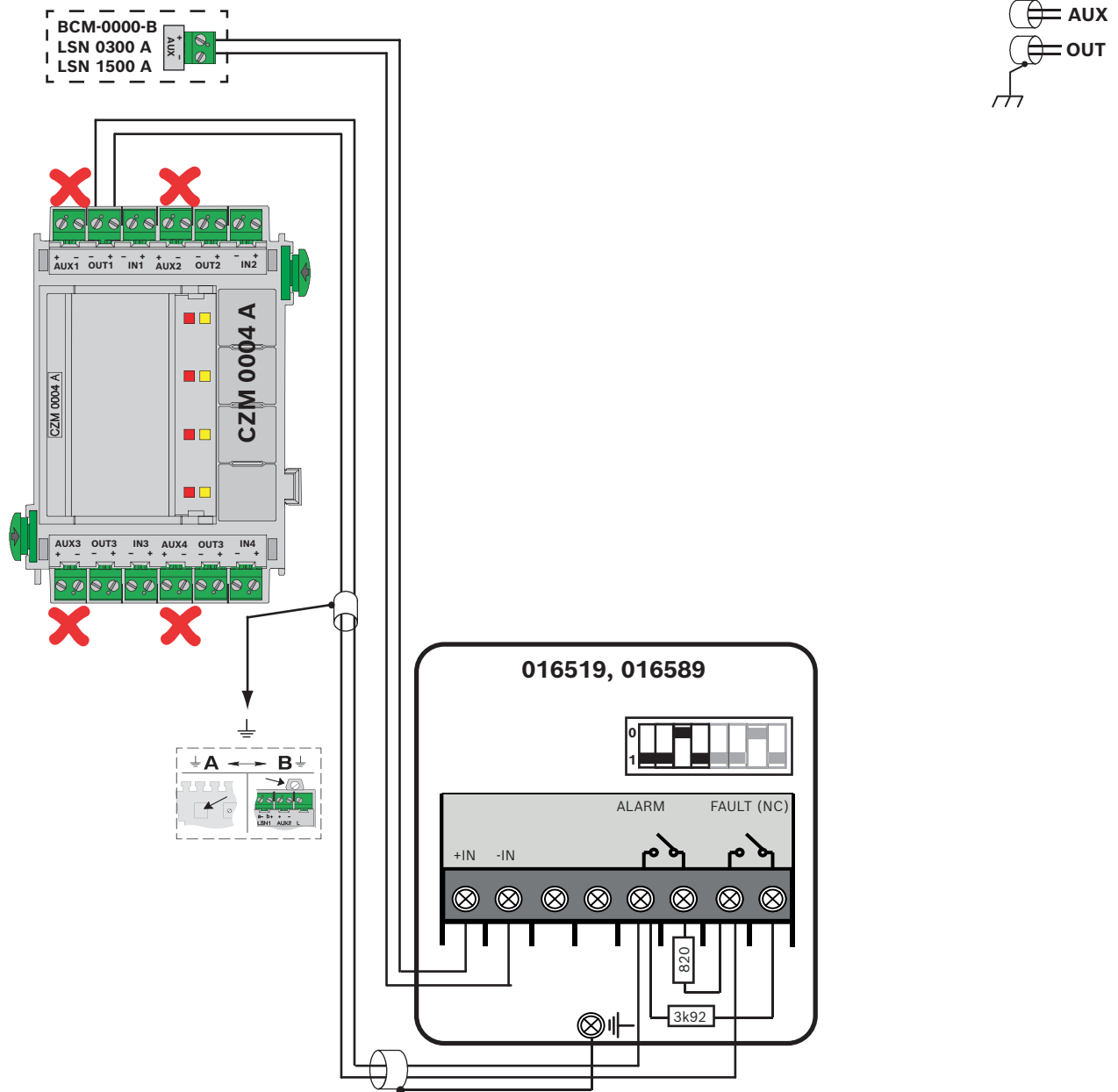
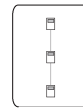


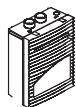
**016519, 016589
IR3 Flame Detector**



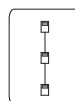


**016519, 016589
IR3 Flame Detector**

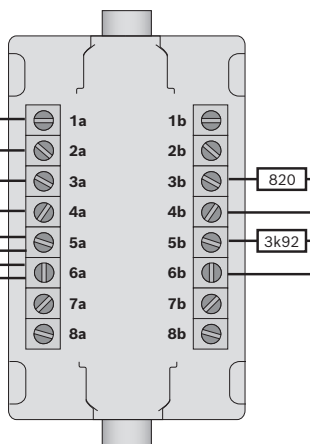
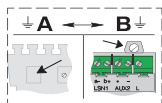
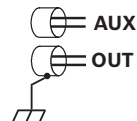
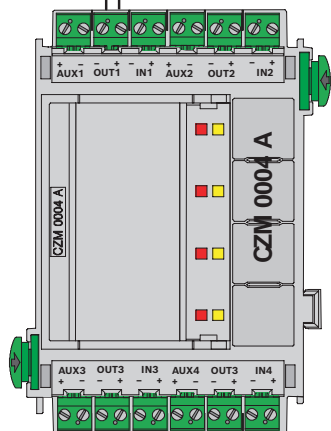


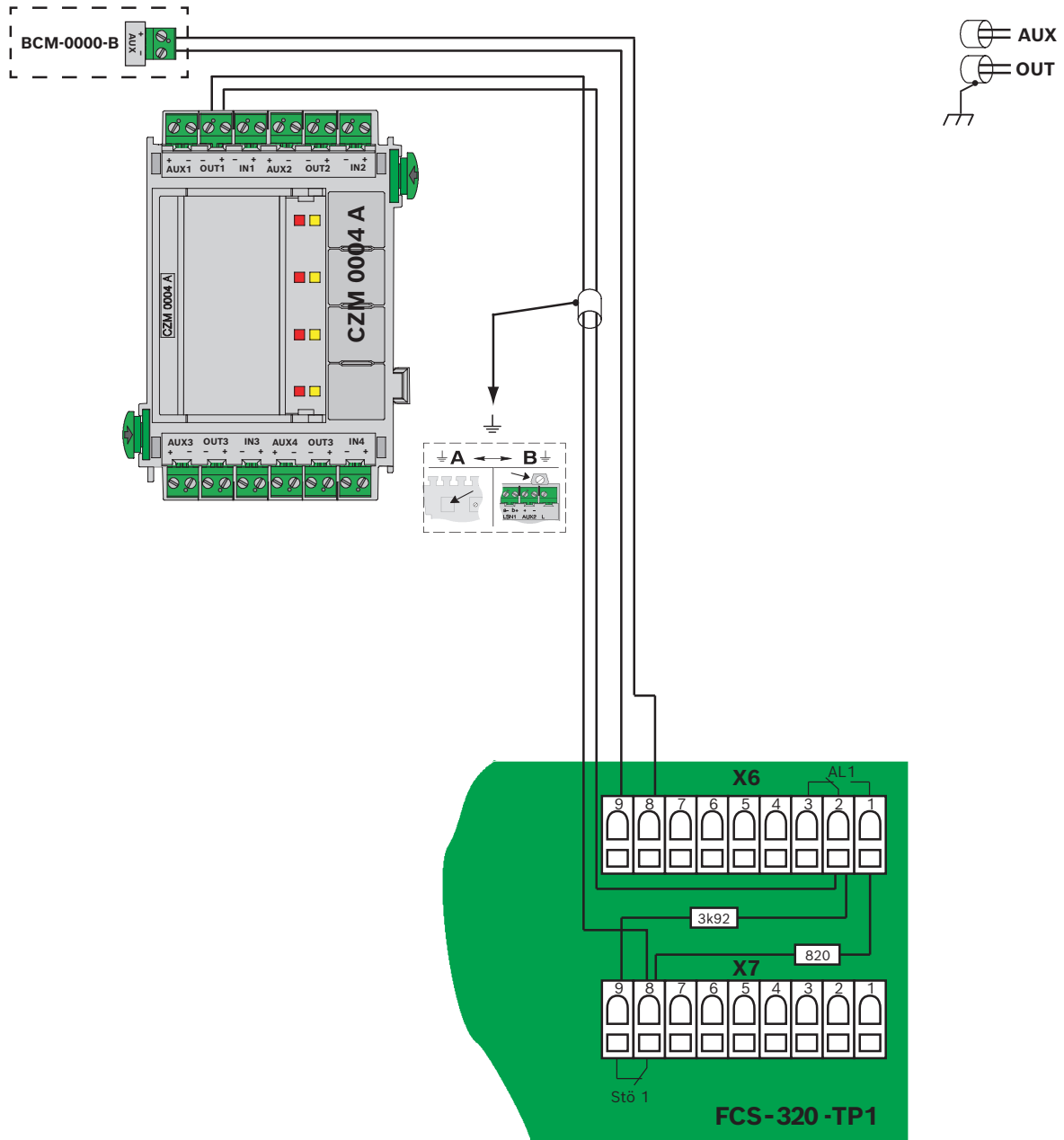
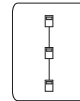
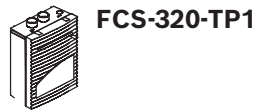


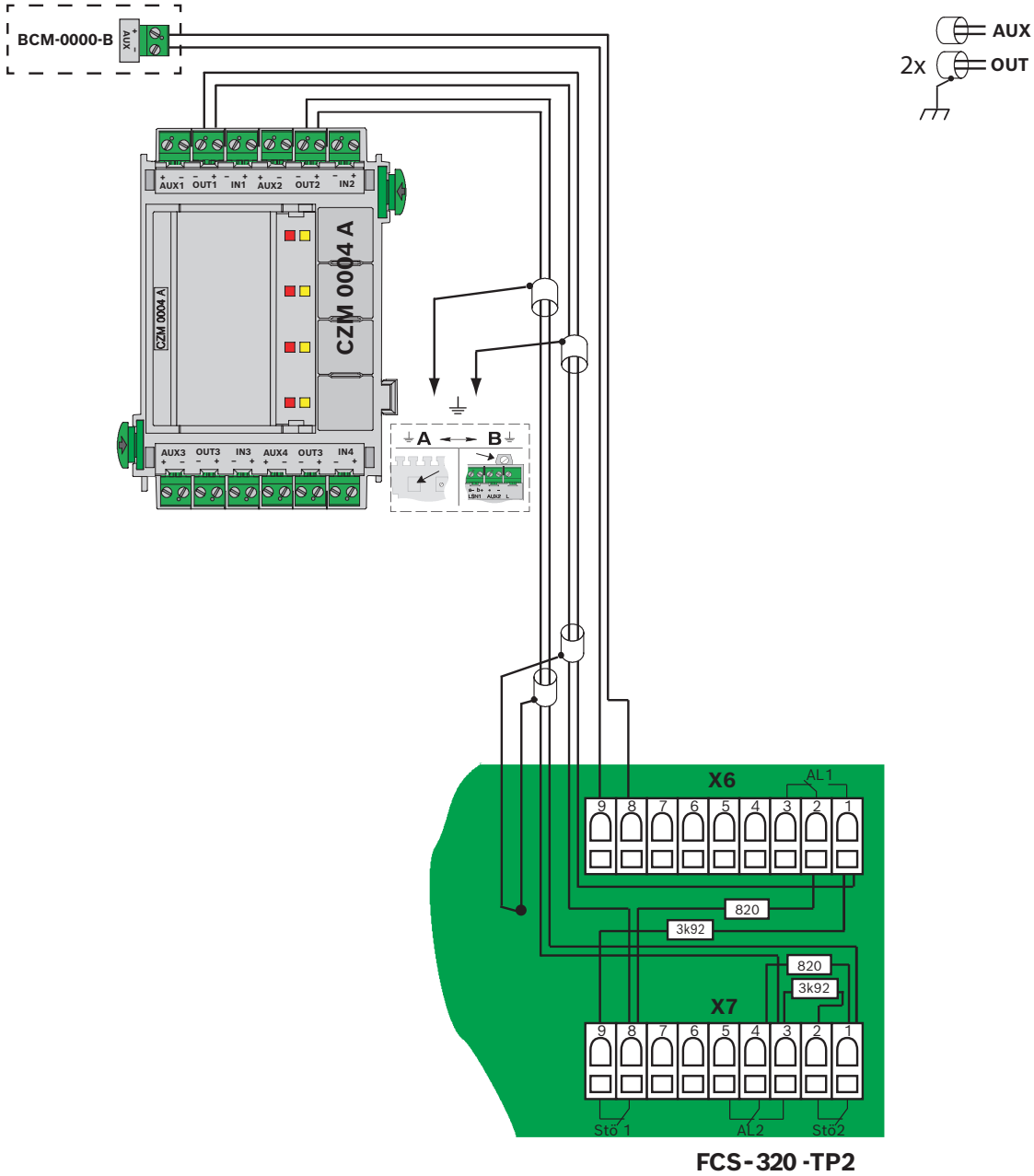
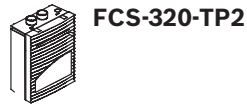
FCS-320-TM Series



BCM-0000-B
LSN 0300 A
LSN 1500 A

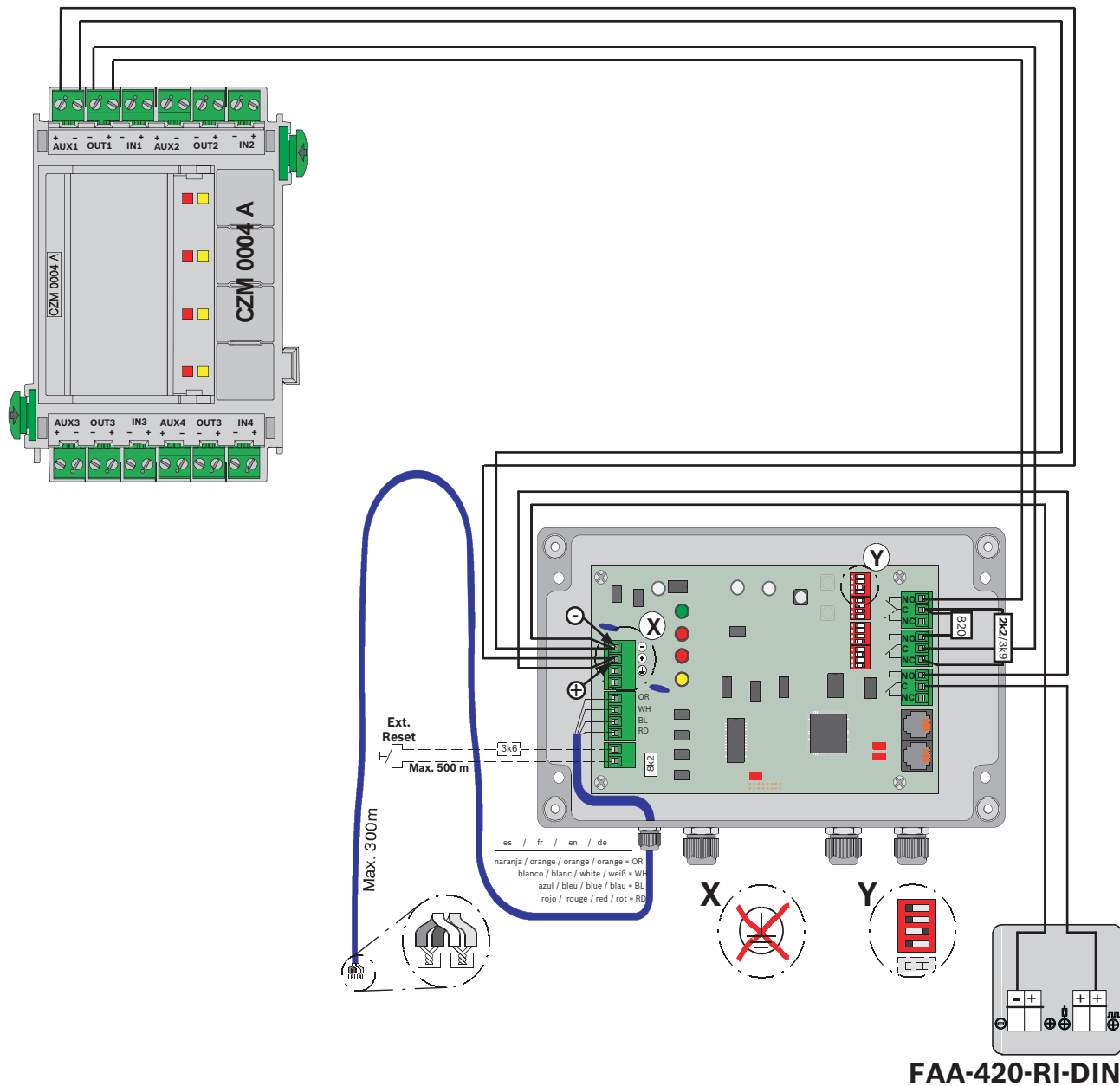






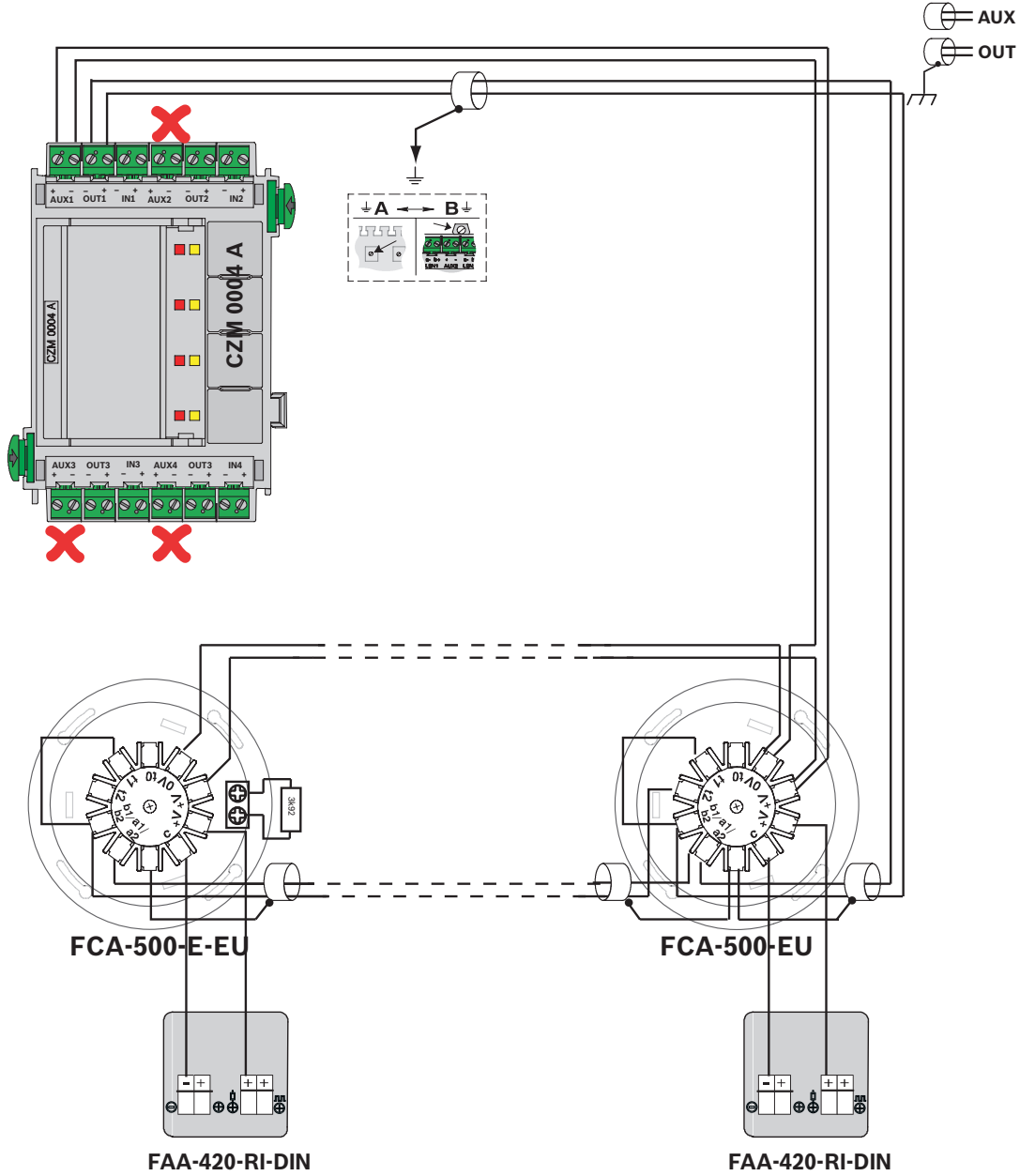


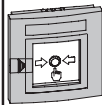
FCS-LWM-1



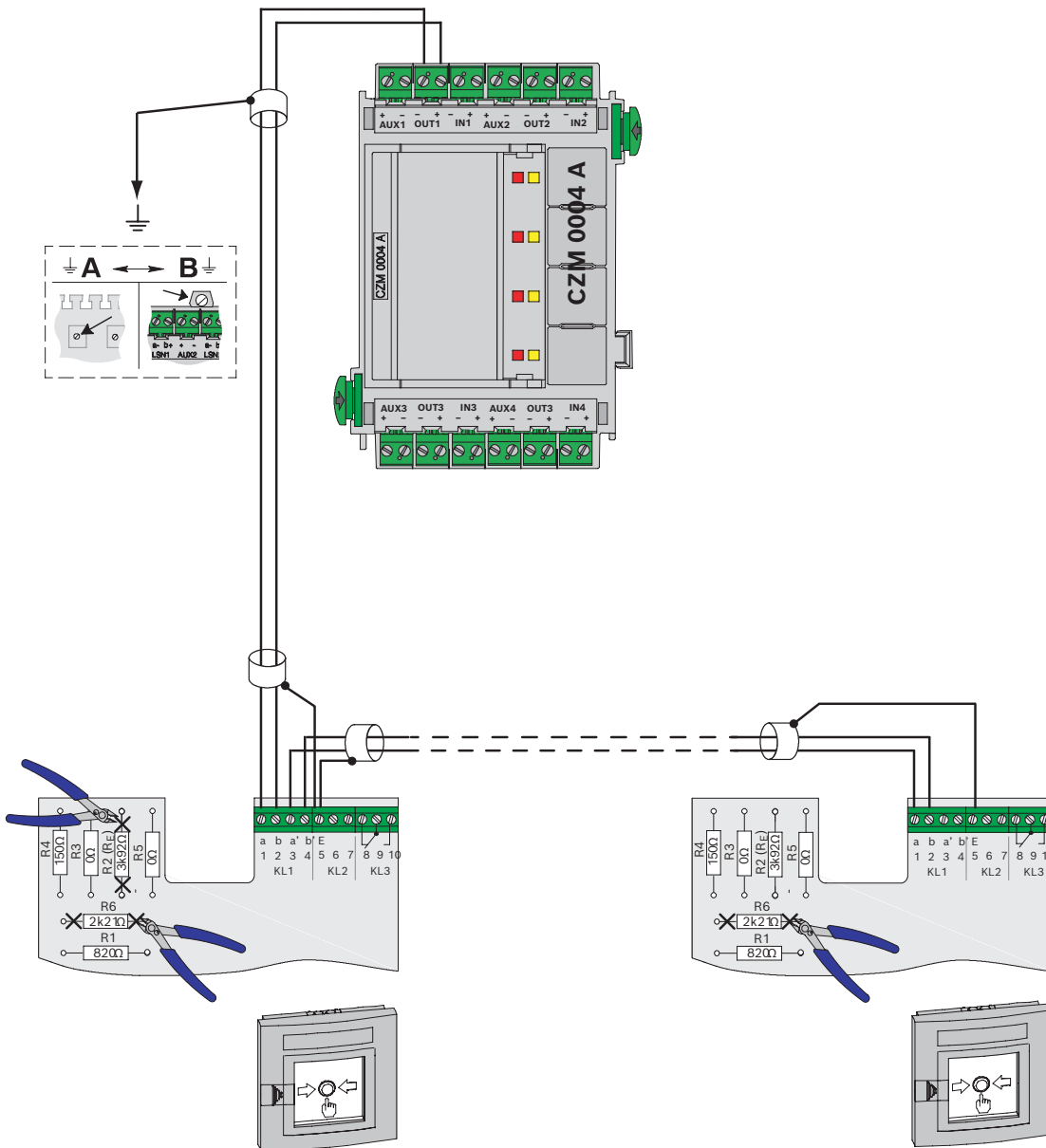
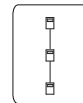


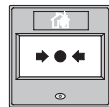
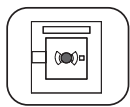
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 FCP-O 500
 FCP-O 500-P
 FCP-OC 500
 FCP-OC 500-P



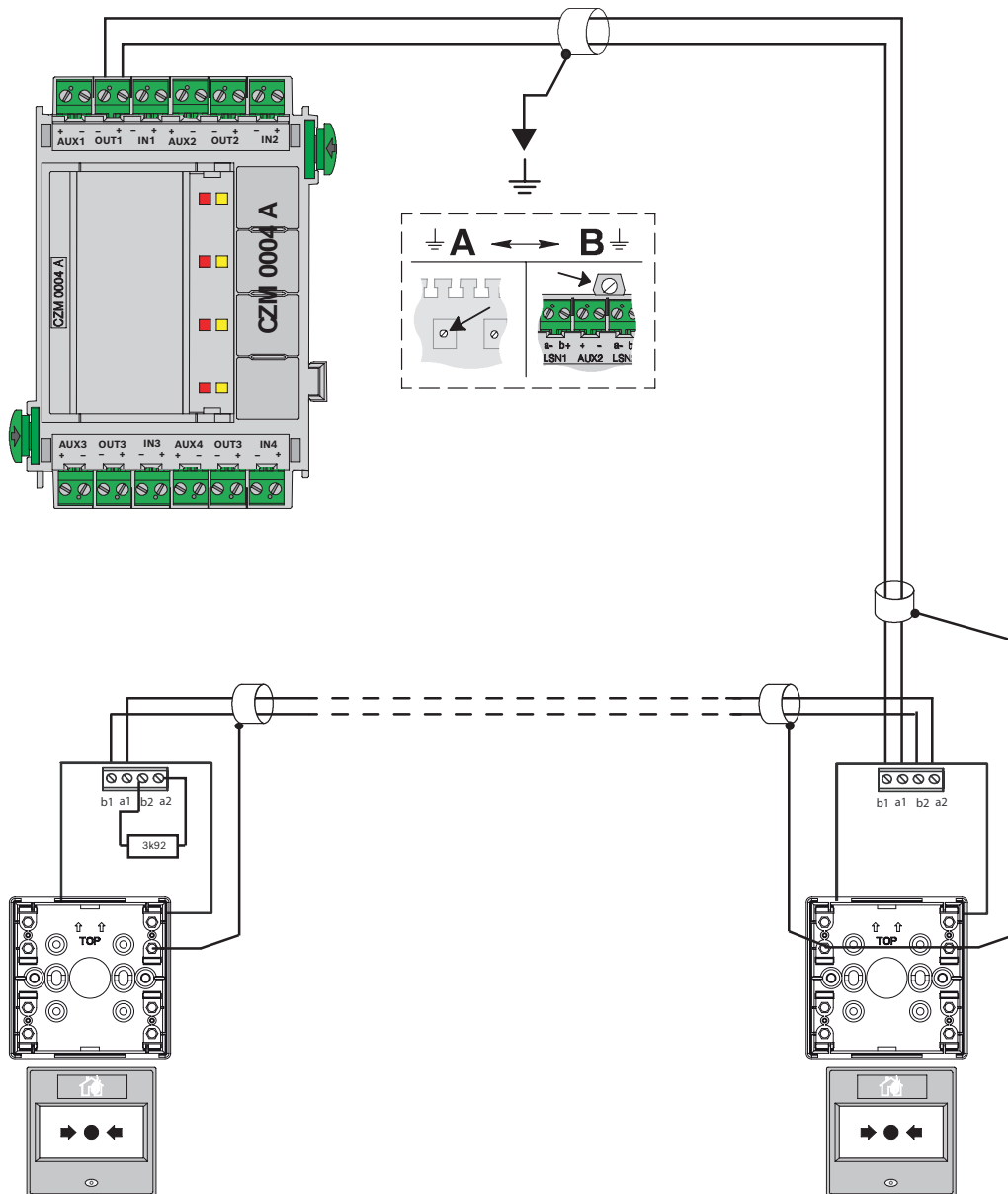
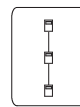


FMC-120-DKM-G-R
FMC-120-DKM-H-R
FMC-120-DKM-G-B
FMC-120-DKM-H-B
FMC-120-DKM-G-Y





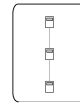
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FMC-300RW-GSRRD
FMC-300RW-GSGYE
FMC-300RW-GSRYE



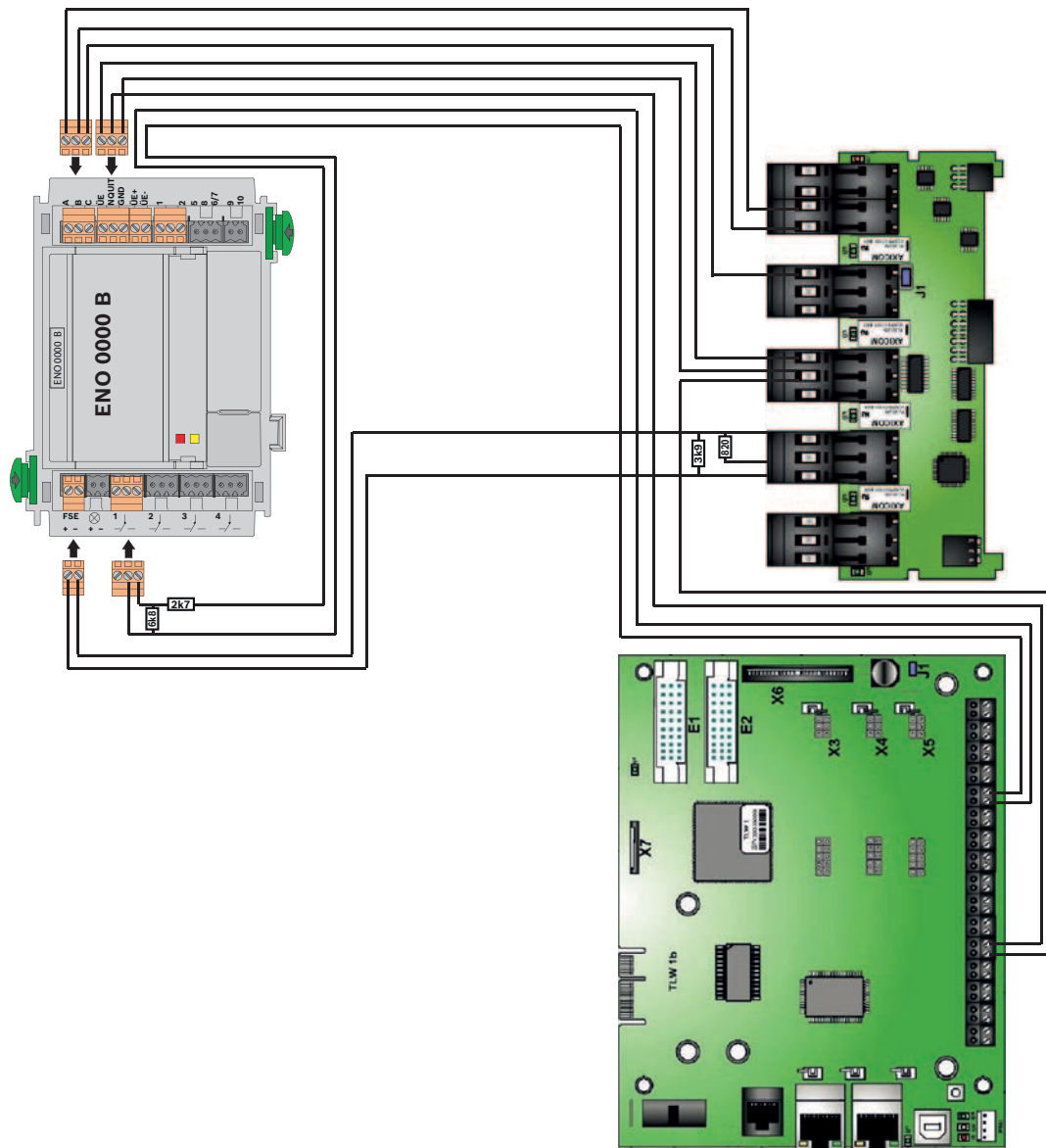
2.4.3 ENO 0000 A/B

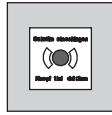
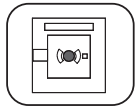


AT5000 IP/GPRS

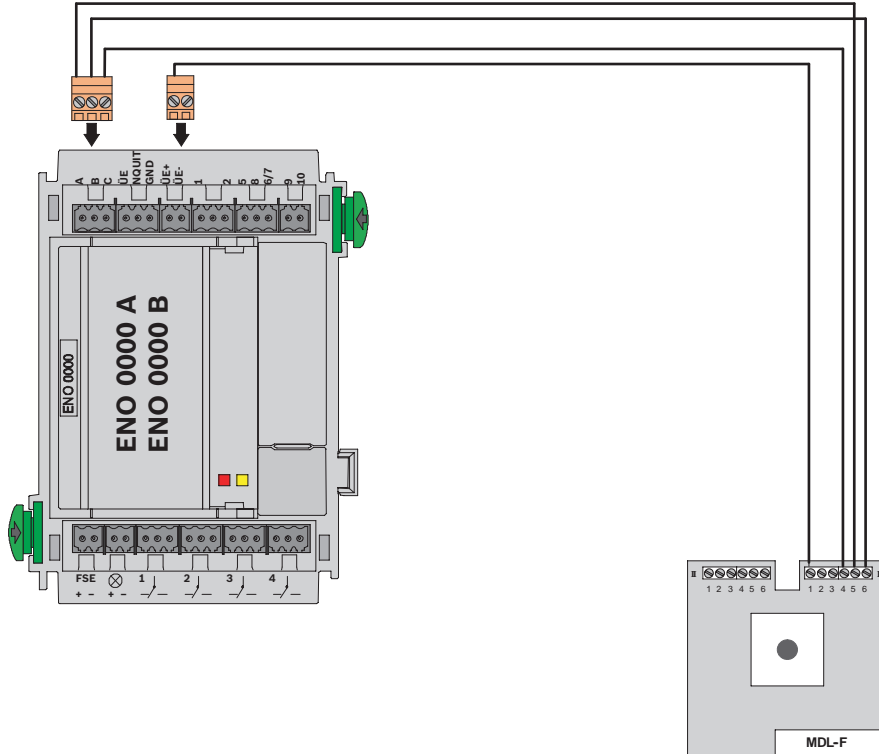


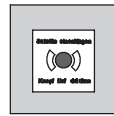
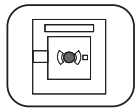
EN 54-2



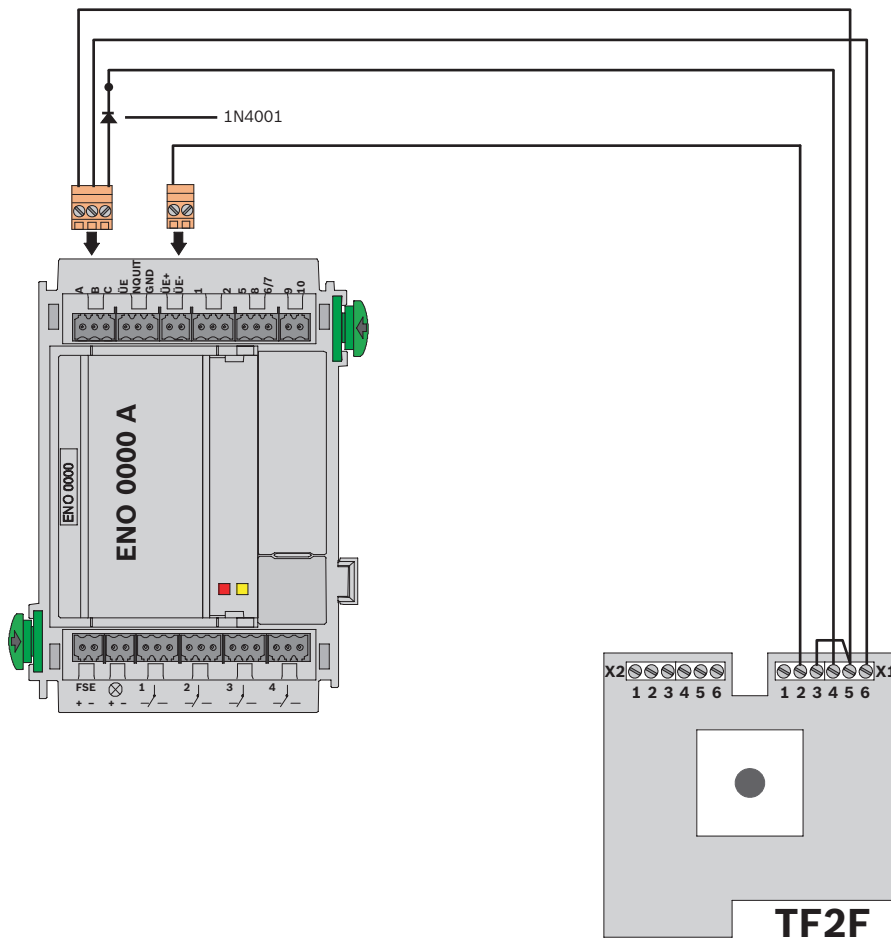
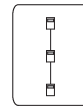


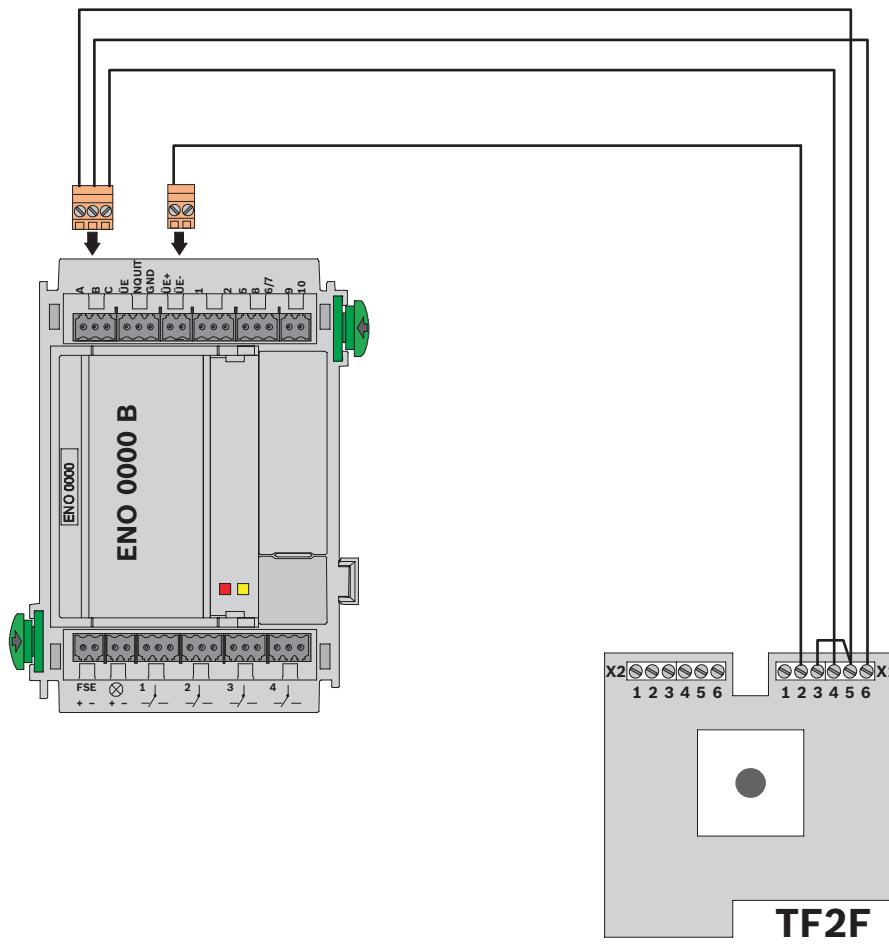
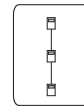
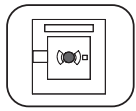
MDL-F

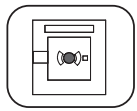




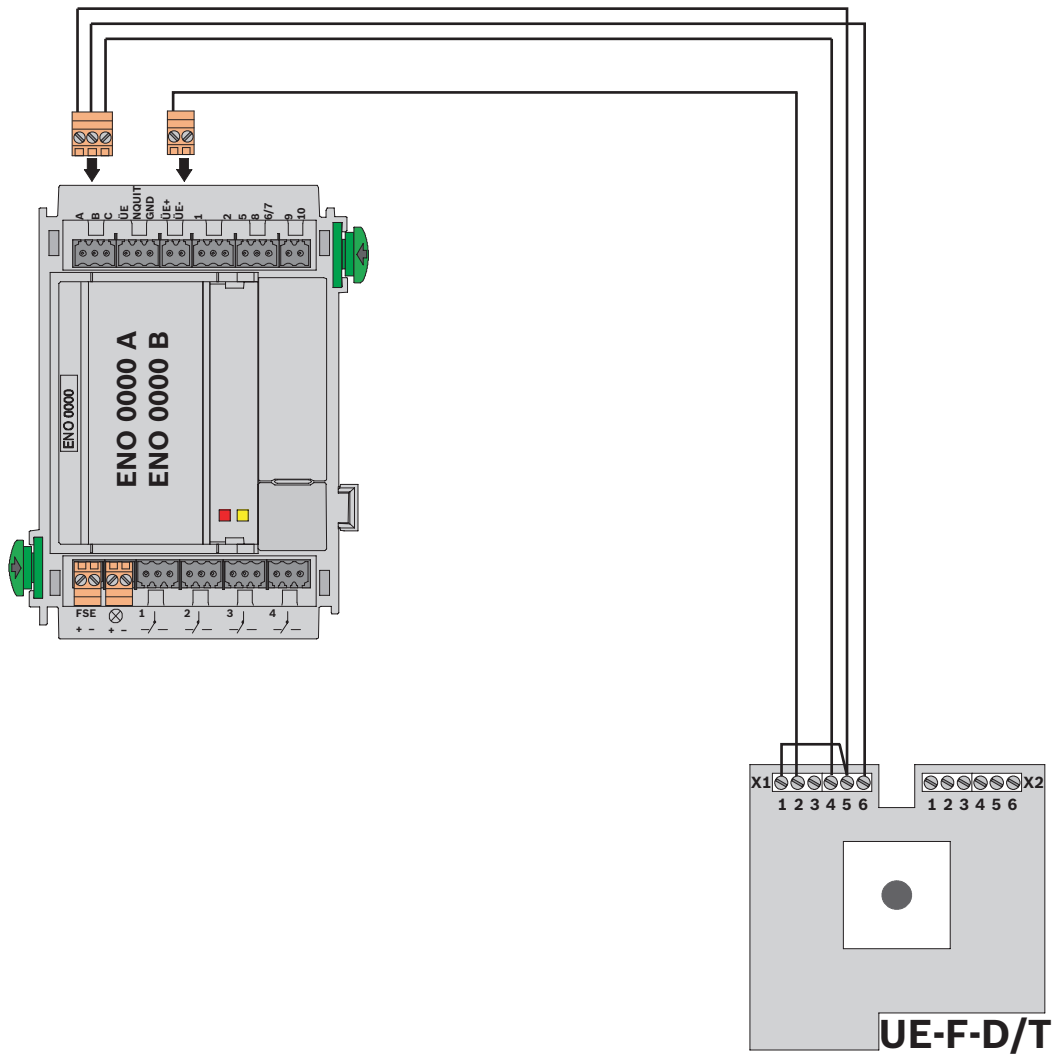
TF2F

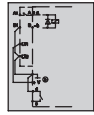




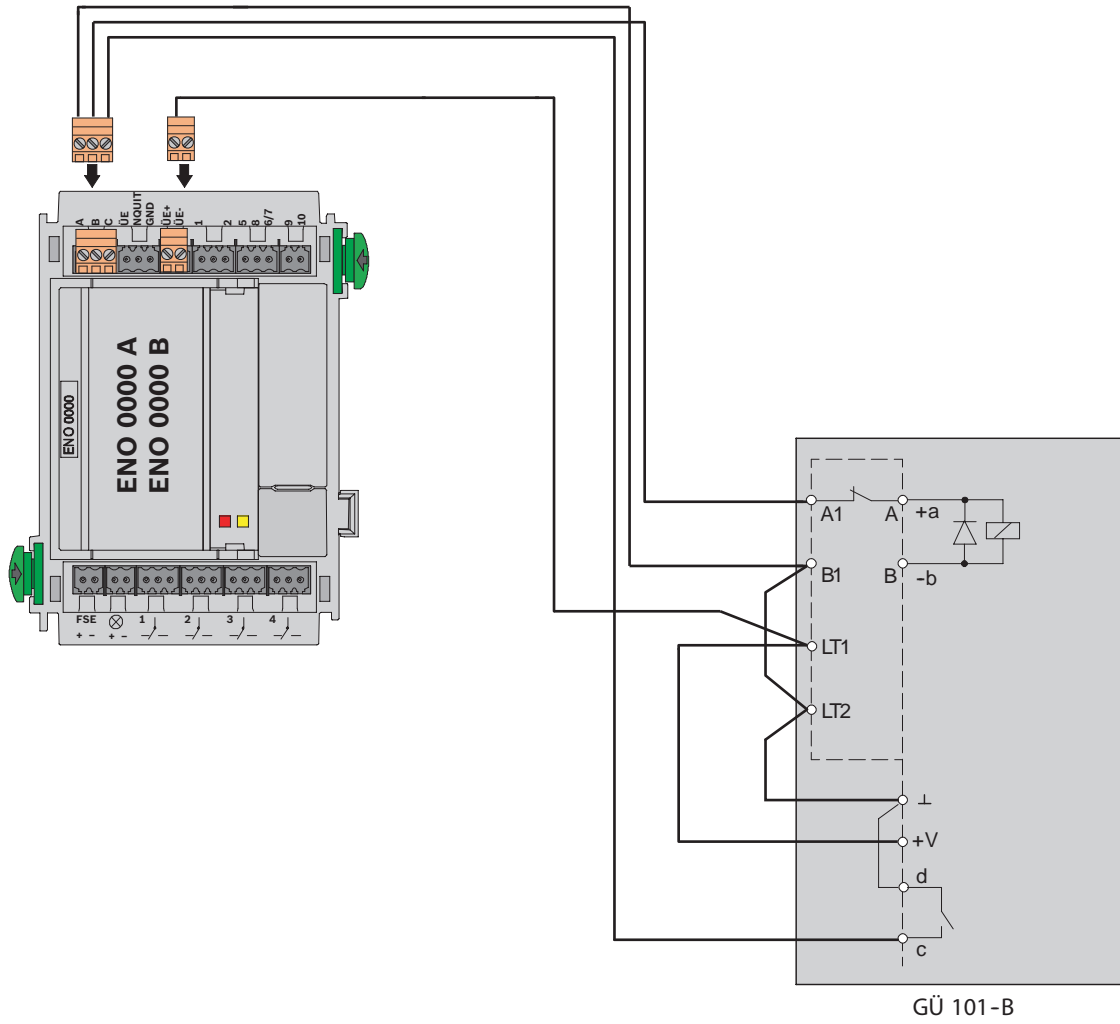
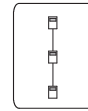


UE-F-D/T

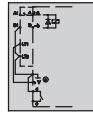




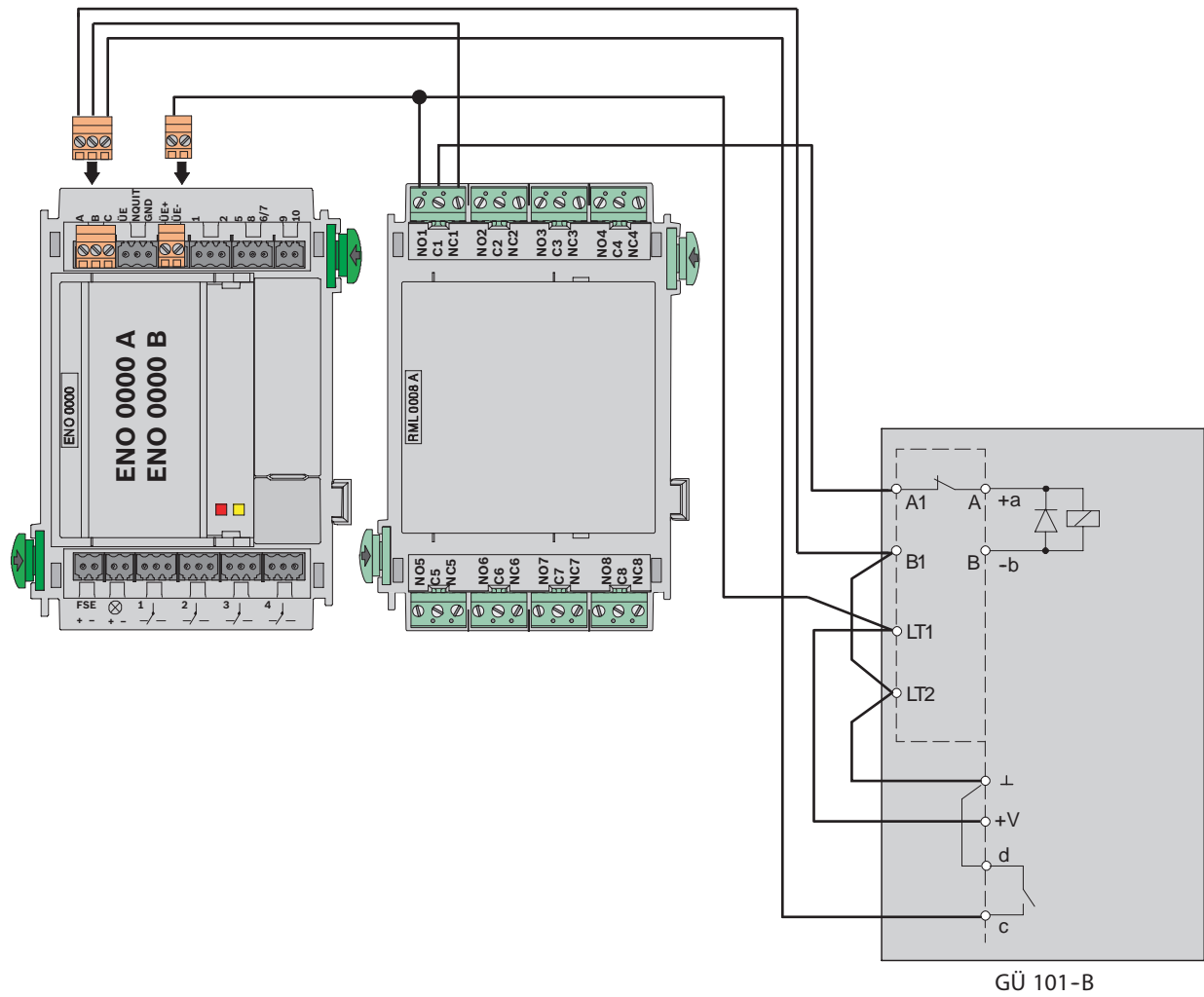
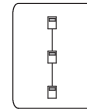
GÜ 101-B



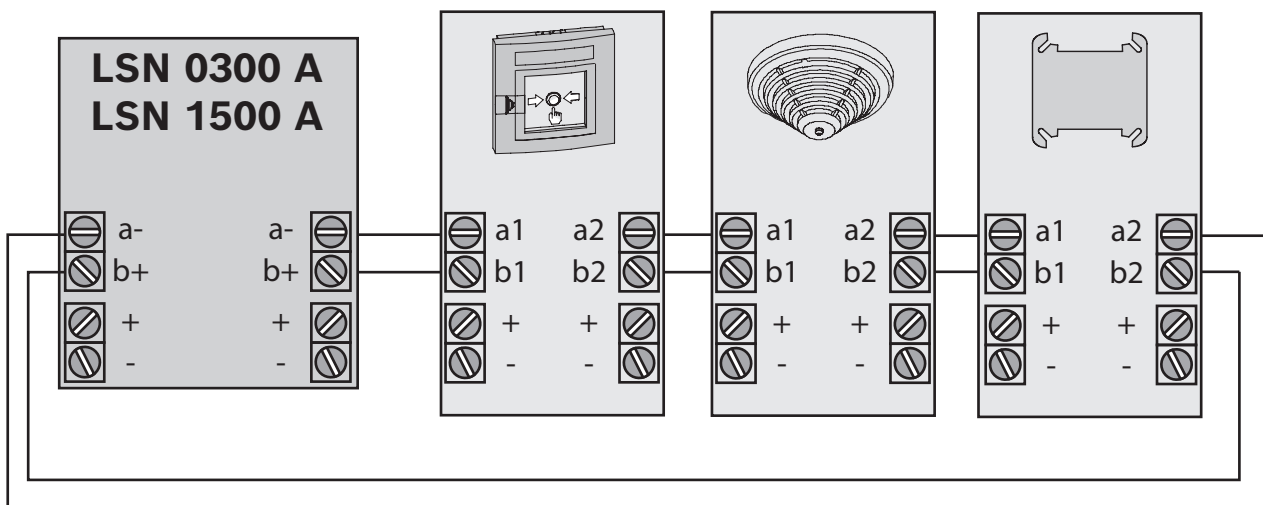
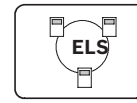
GÜ 101-B

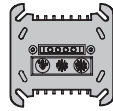
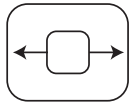


GÜ 101-B

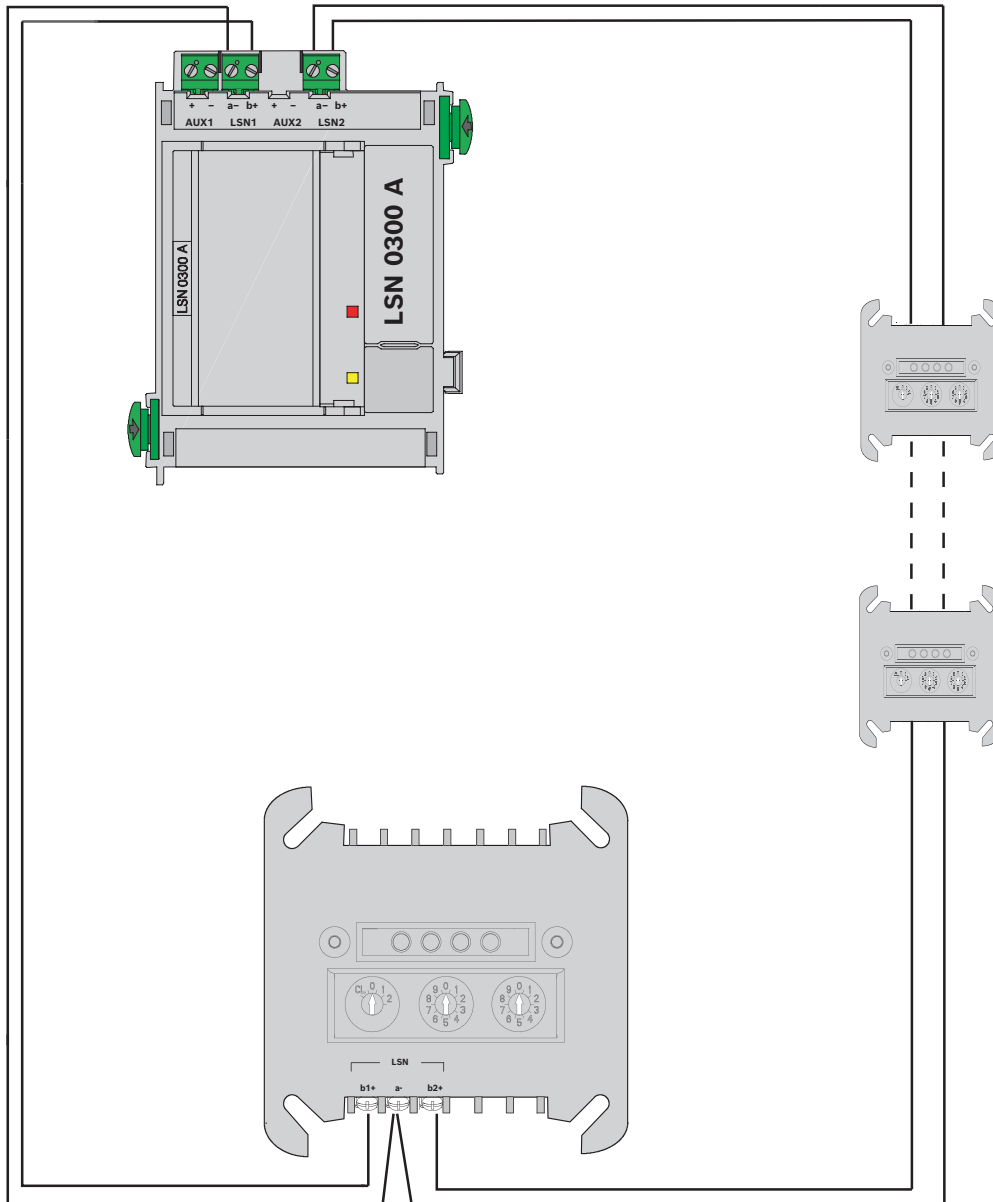
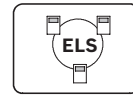


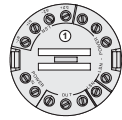
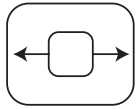
2.4.4 LSN 0300 A



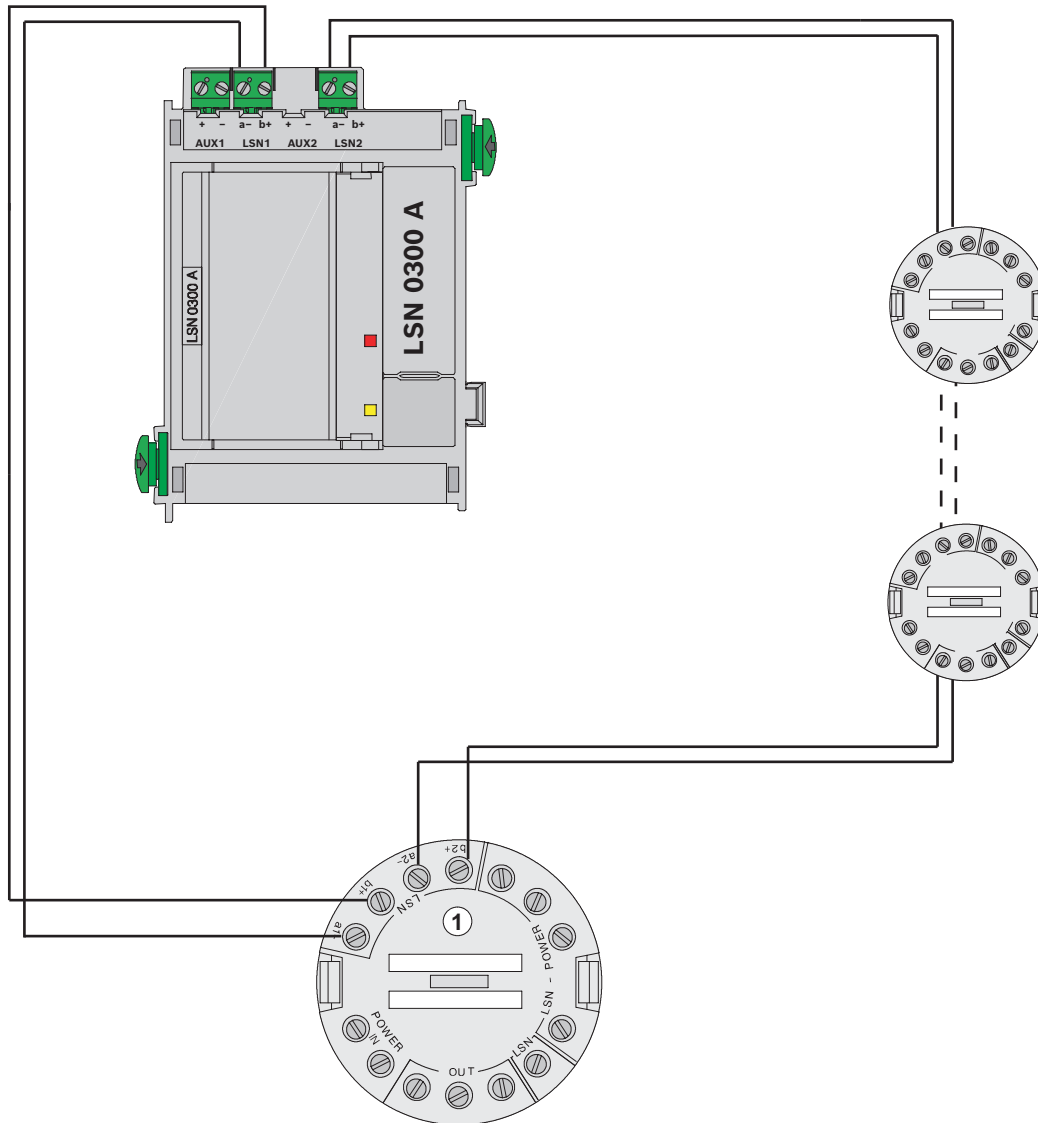
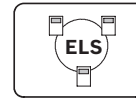


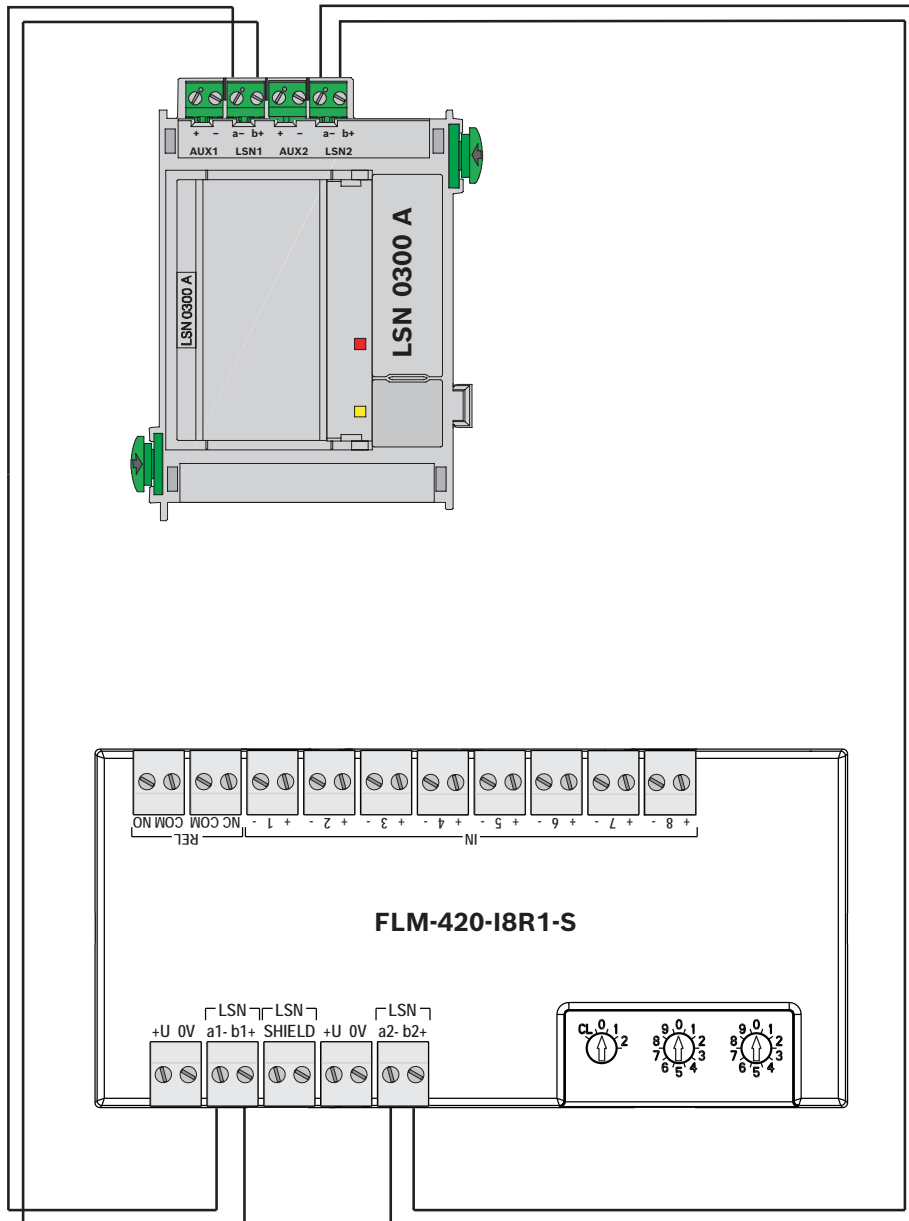
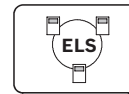
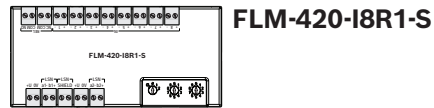
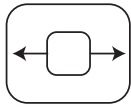
FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

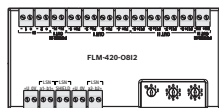
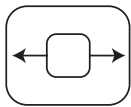




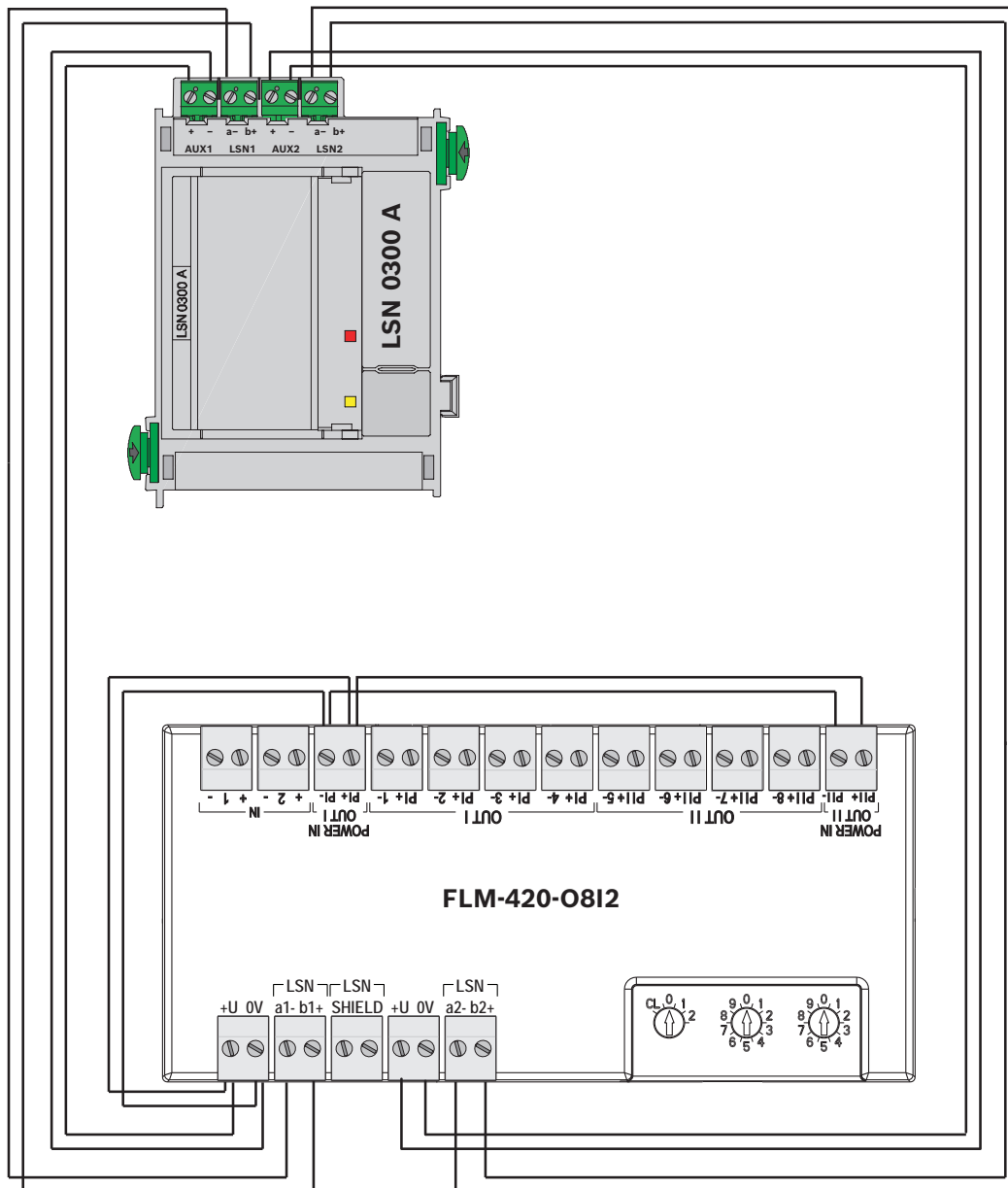
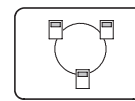
FLM-420-12-E/W
FLM-420-RLV1-E

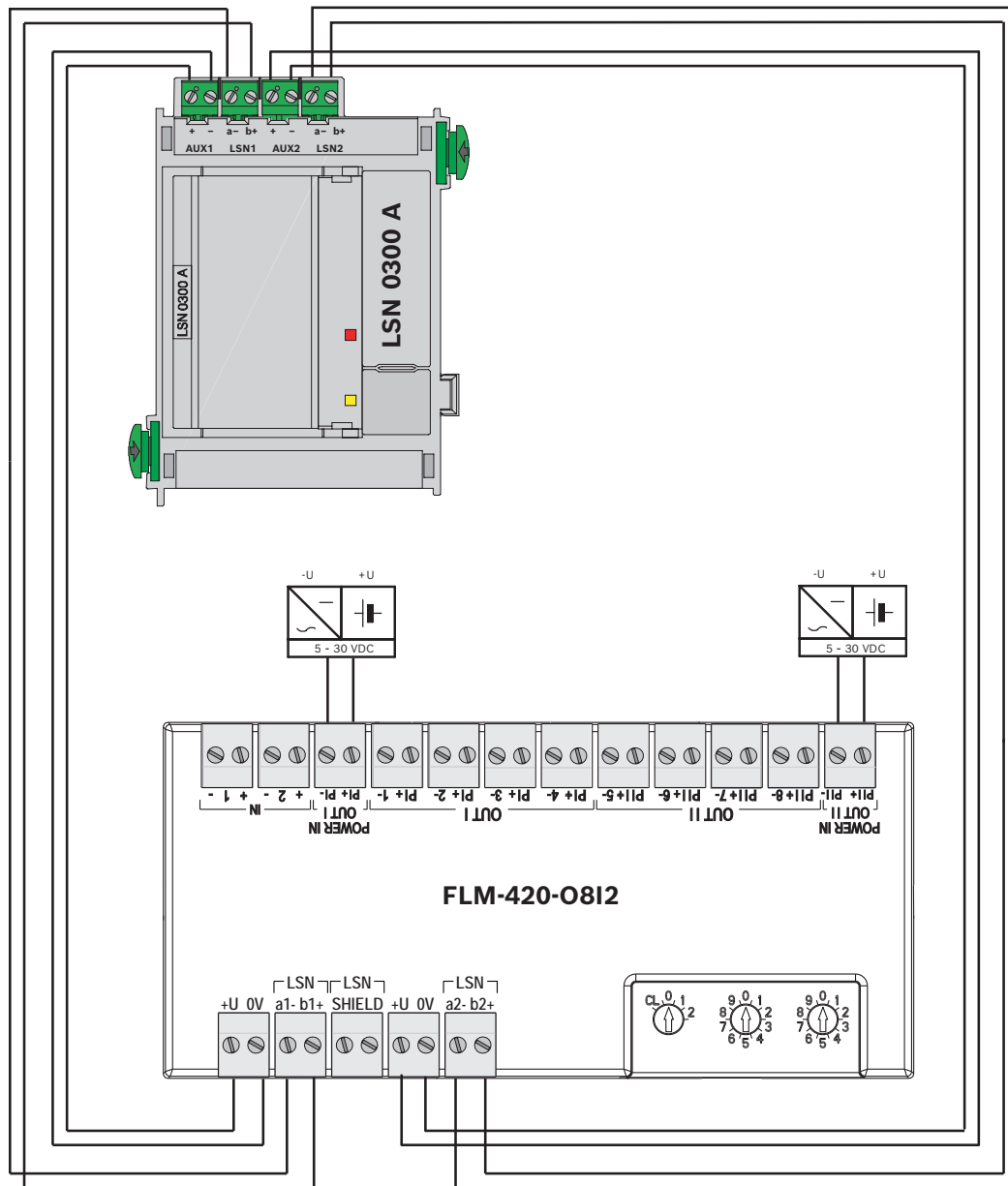
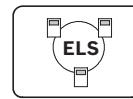
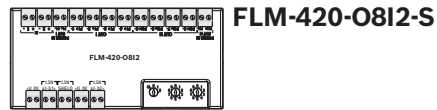
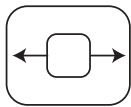


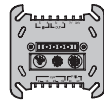
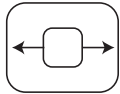




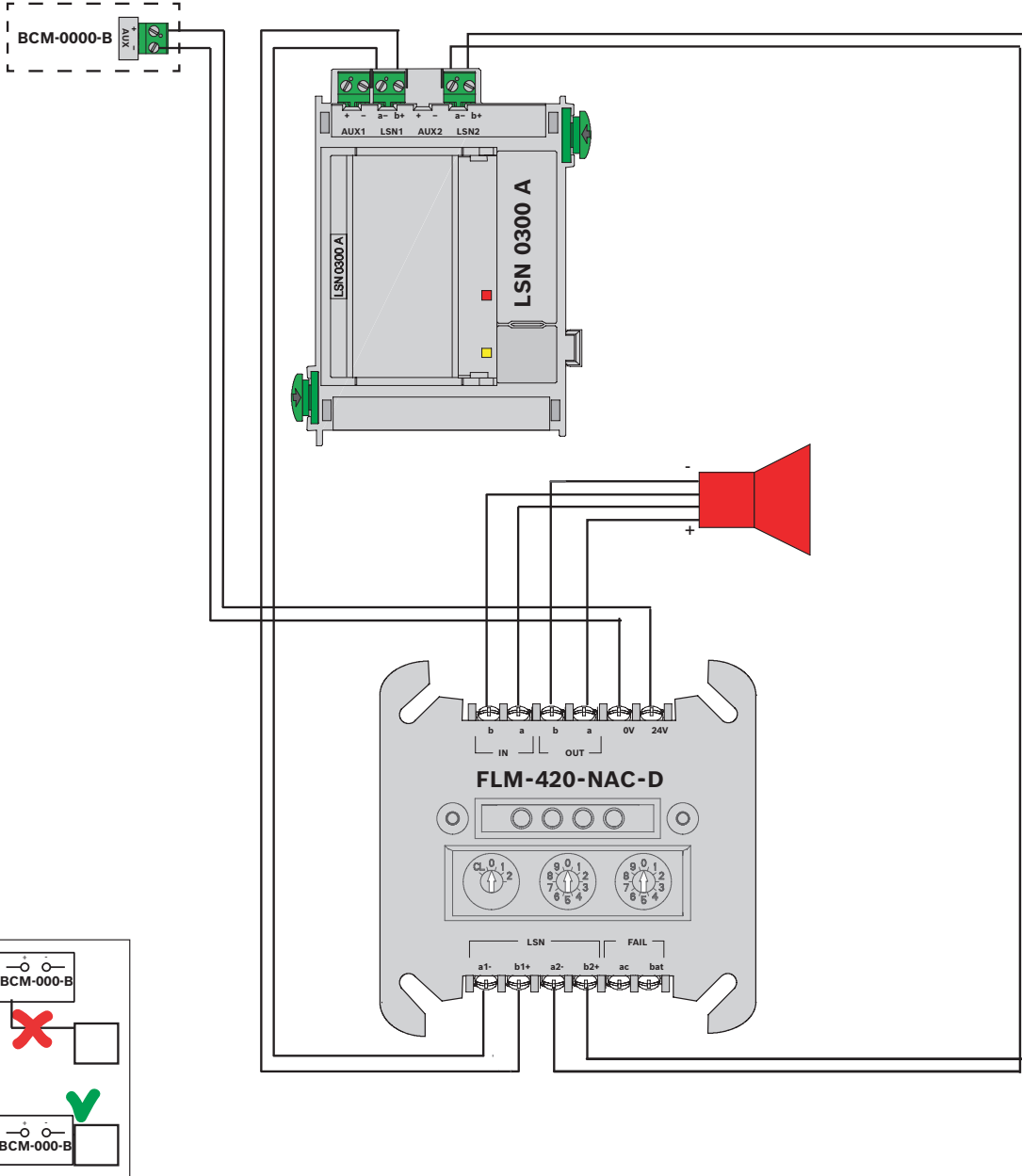
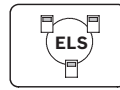
FLM-420-0812-S

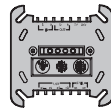
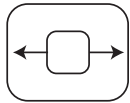




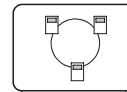


FLM-420-NAC-D/S

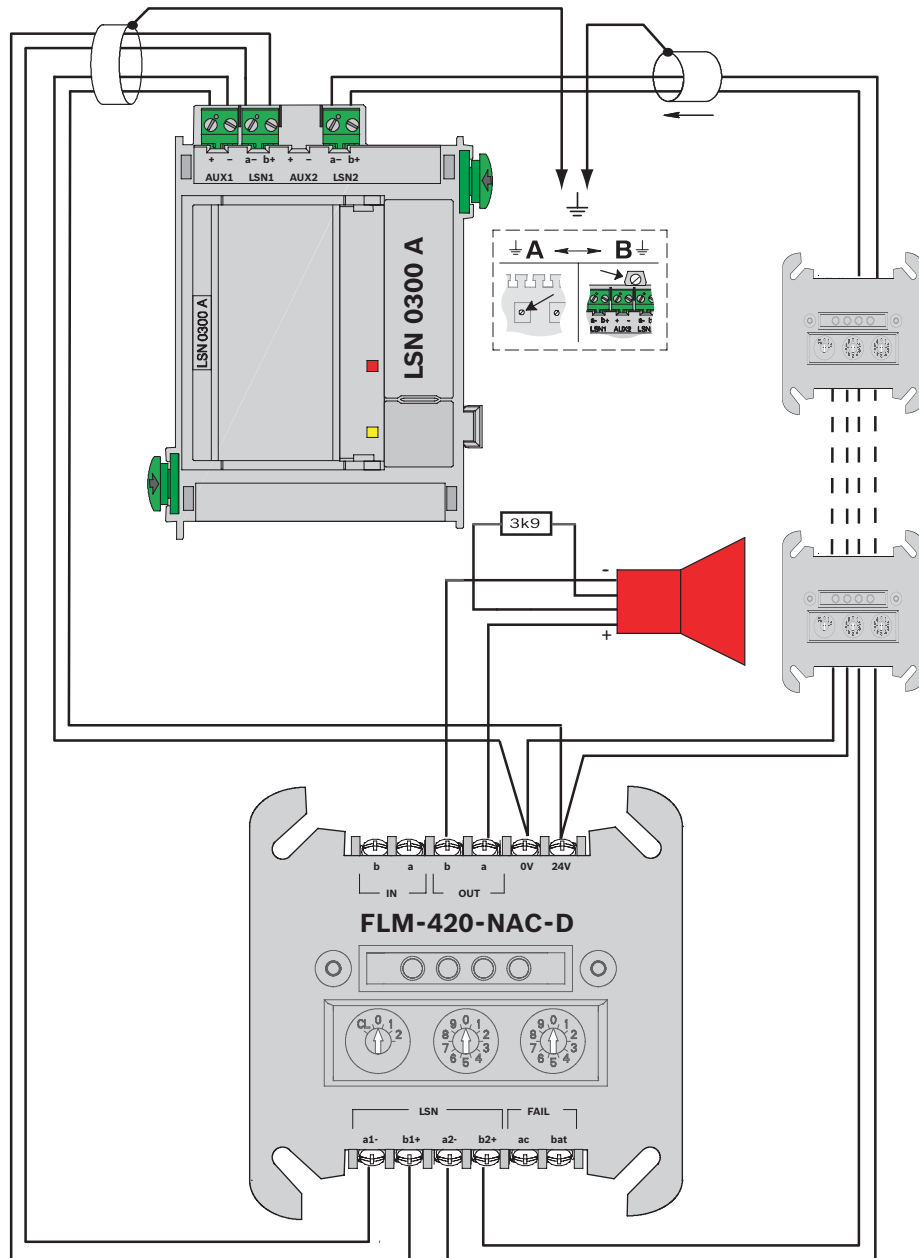


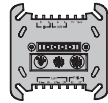
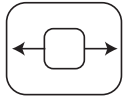


FLM-420-NAC-D/S

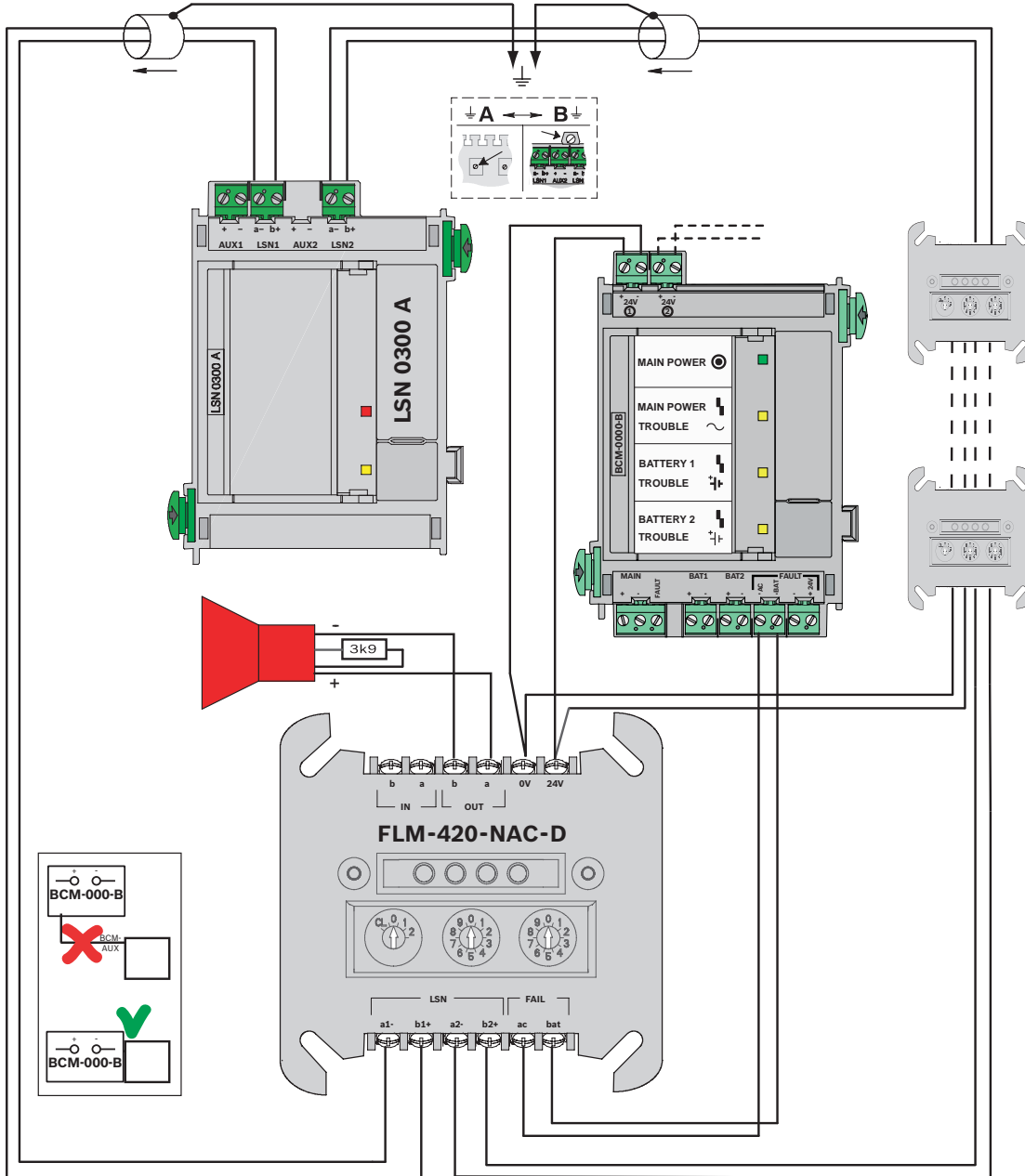
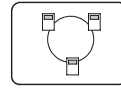


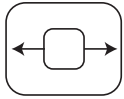
EN 54-2



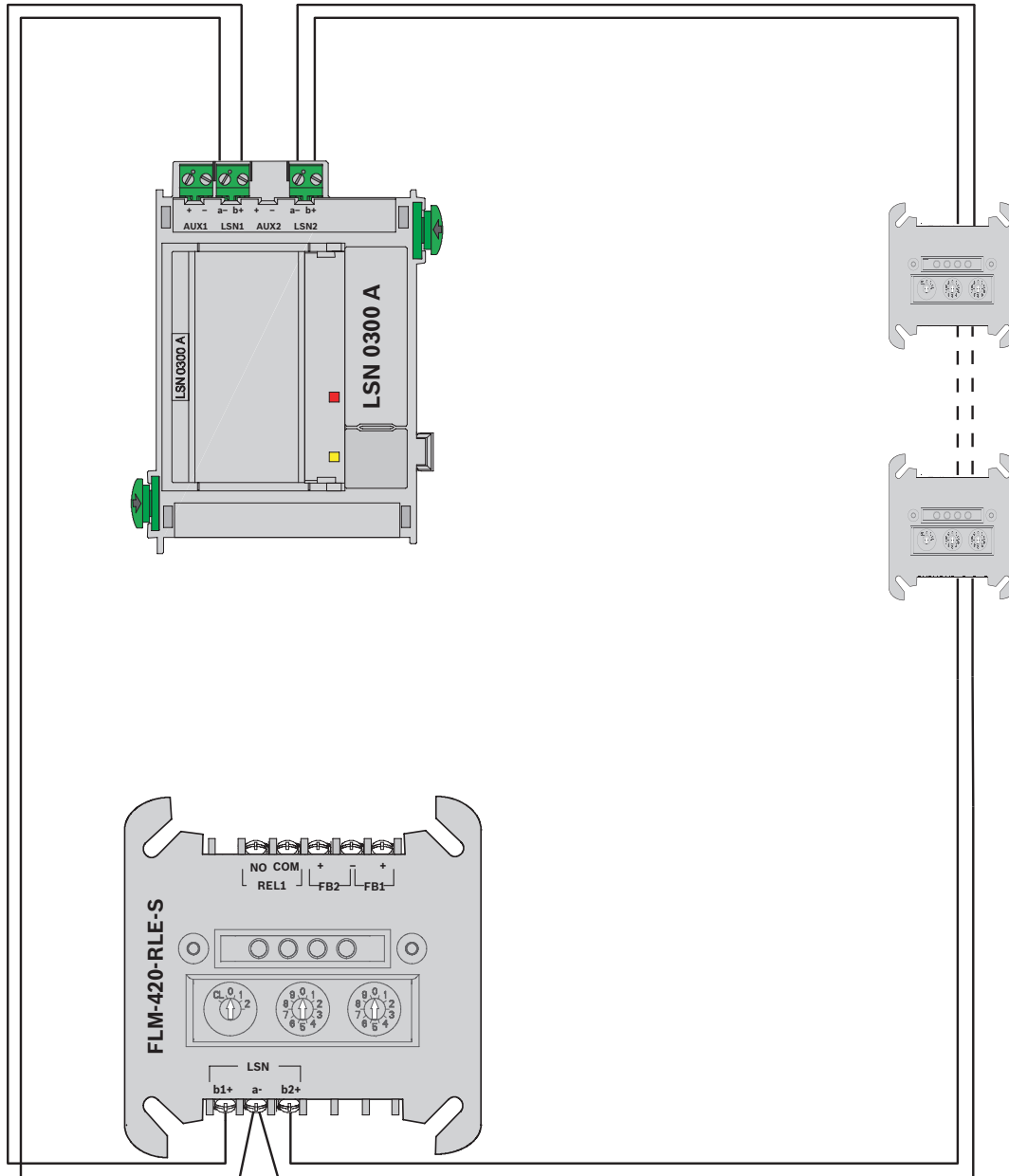
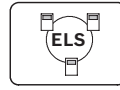


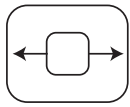
FLM-420-NAC-D/S



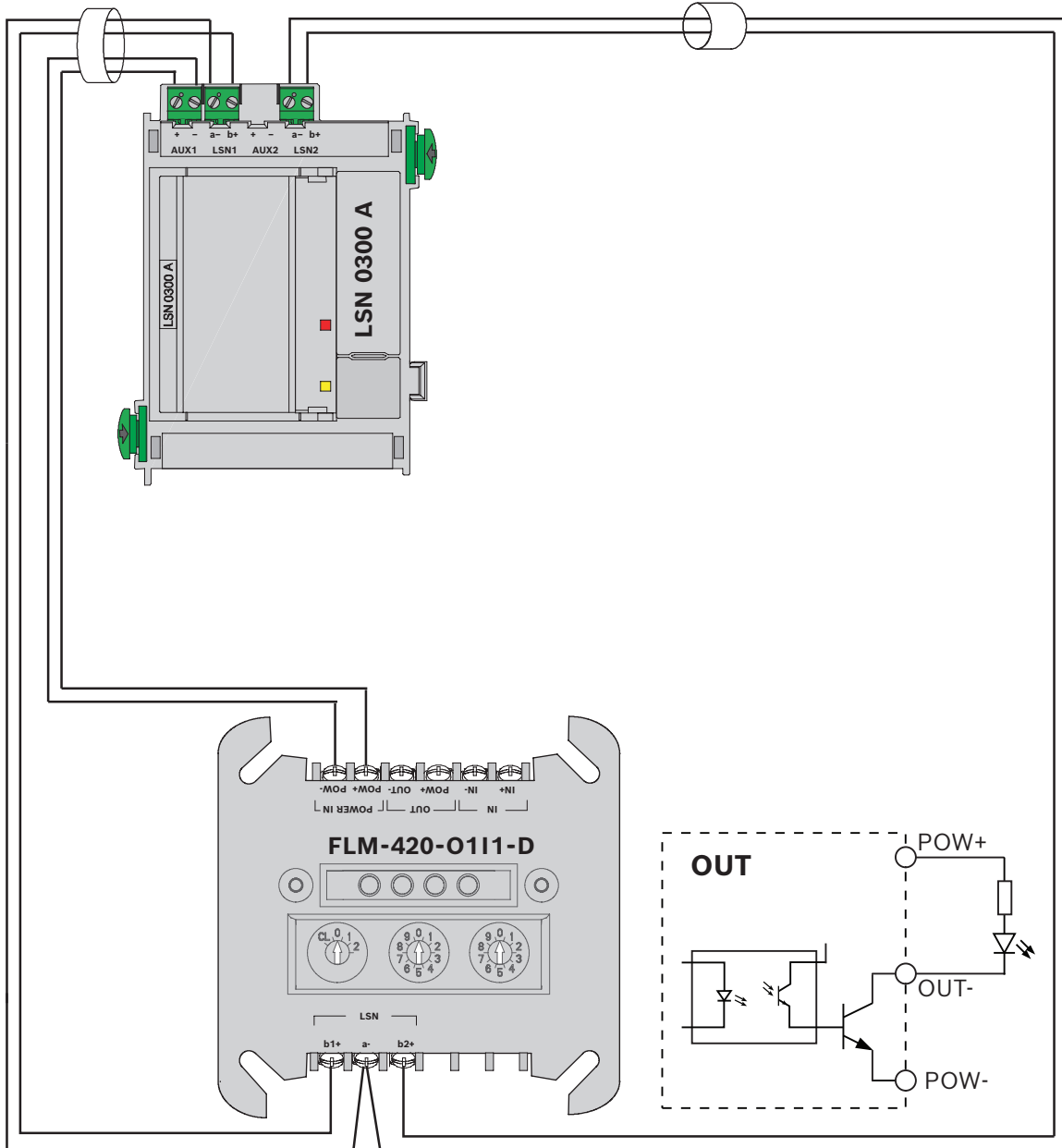
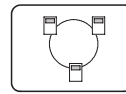


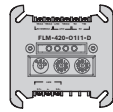
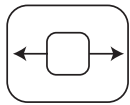
FLM-420-RLE-S



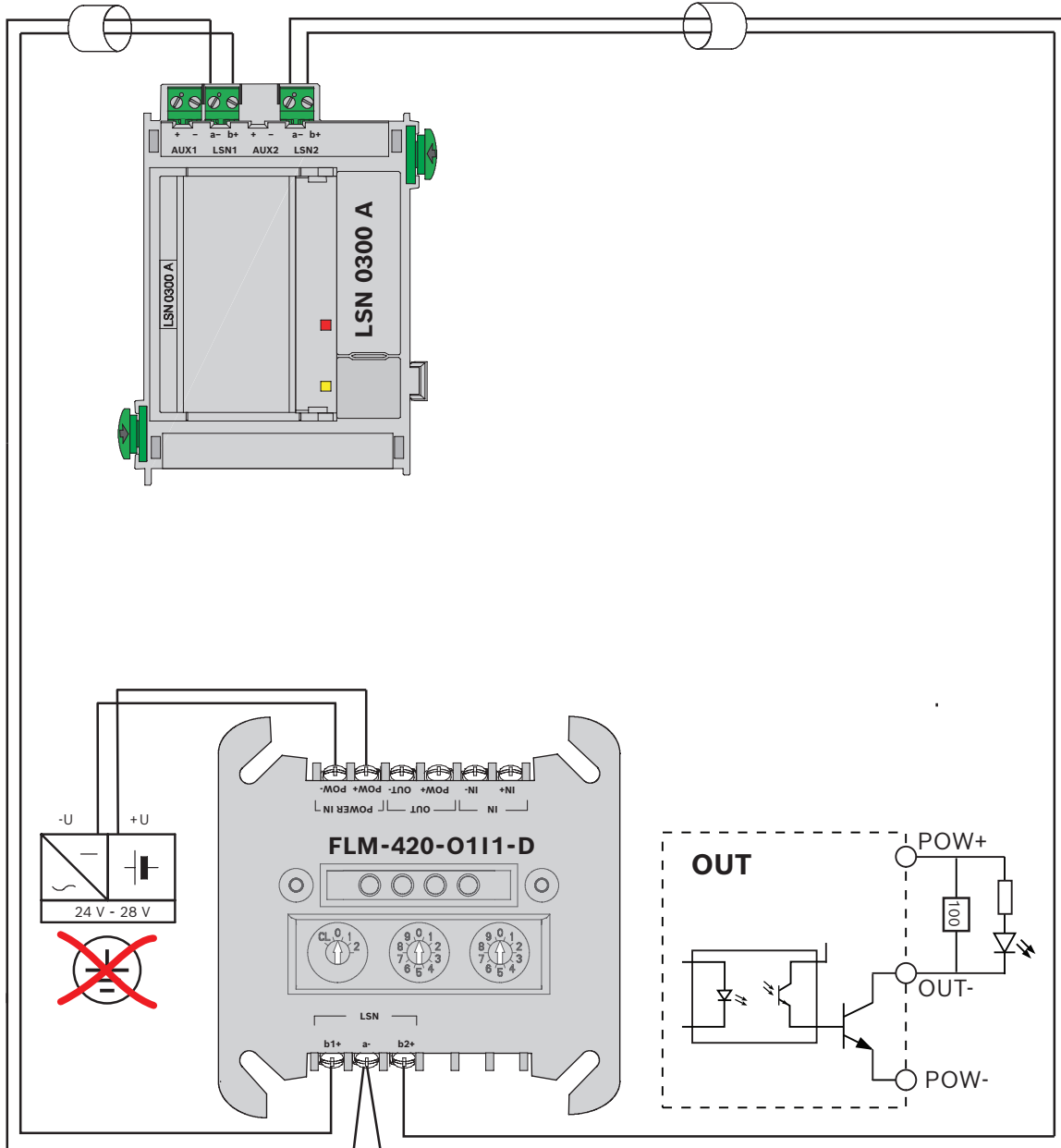
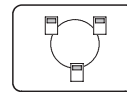


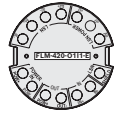
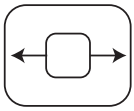
FLM-420-O111-D



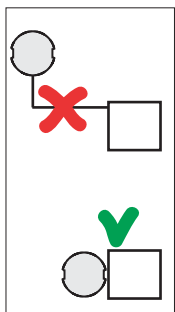
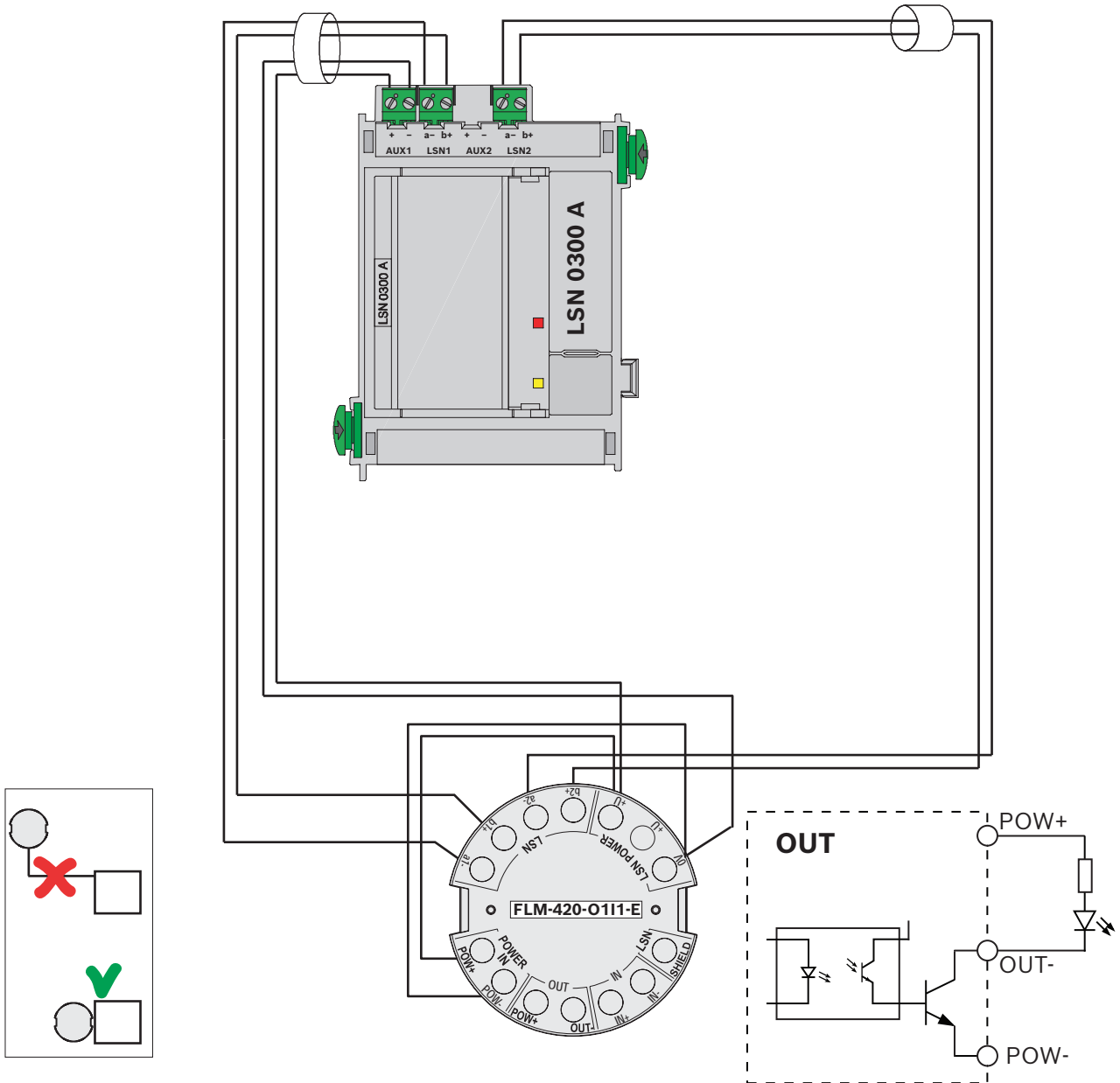
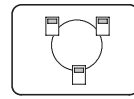


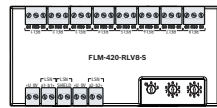
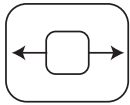
FLM-420-O111-D



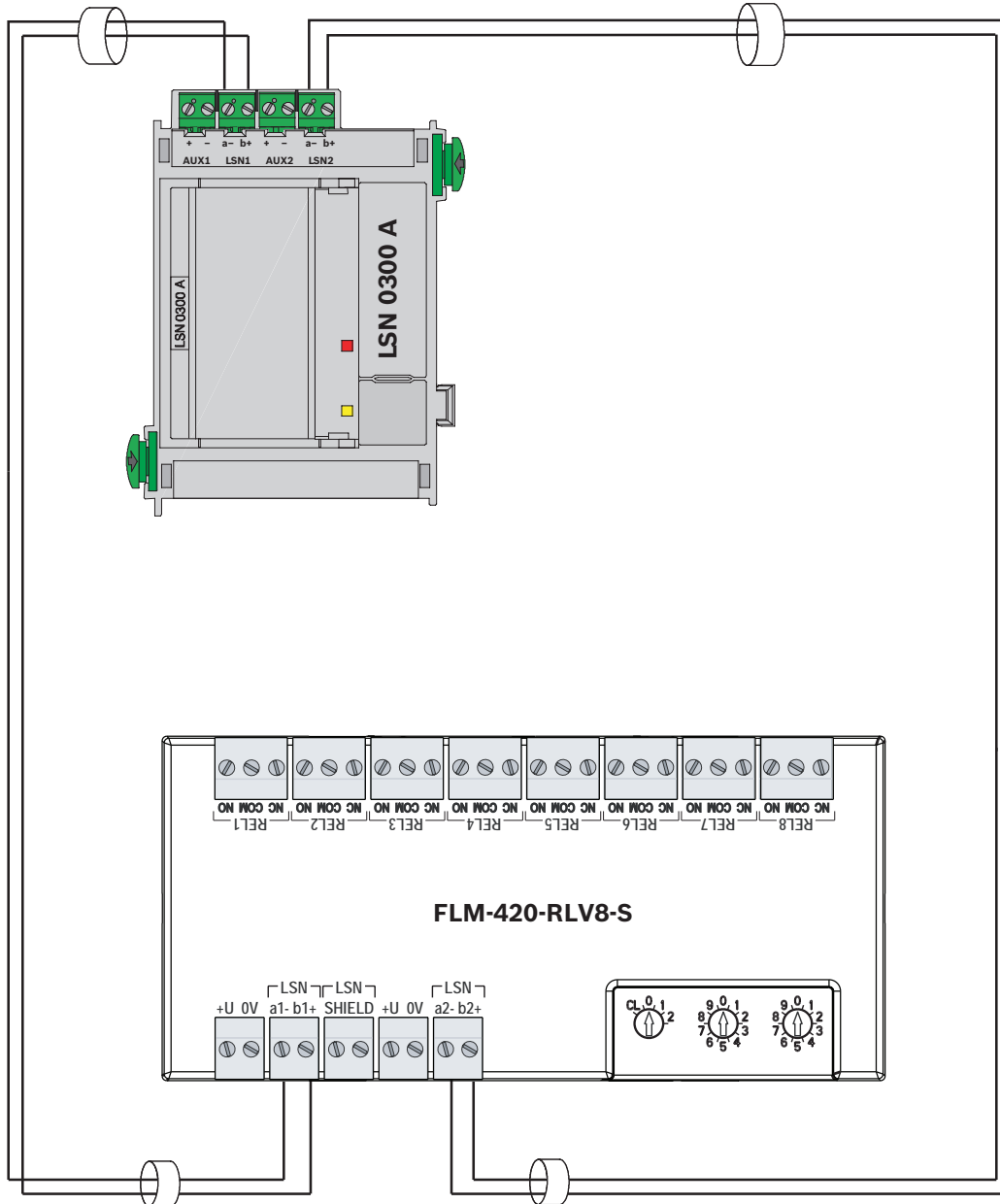
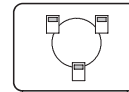


FLM-420-O111-E



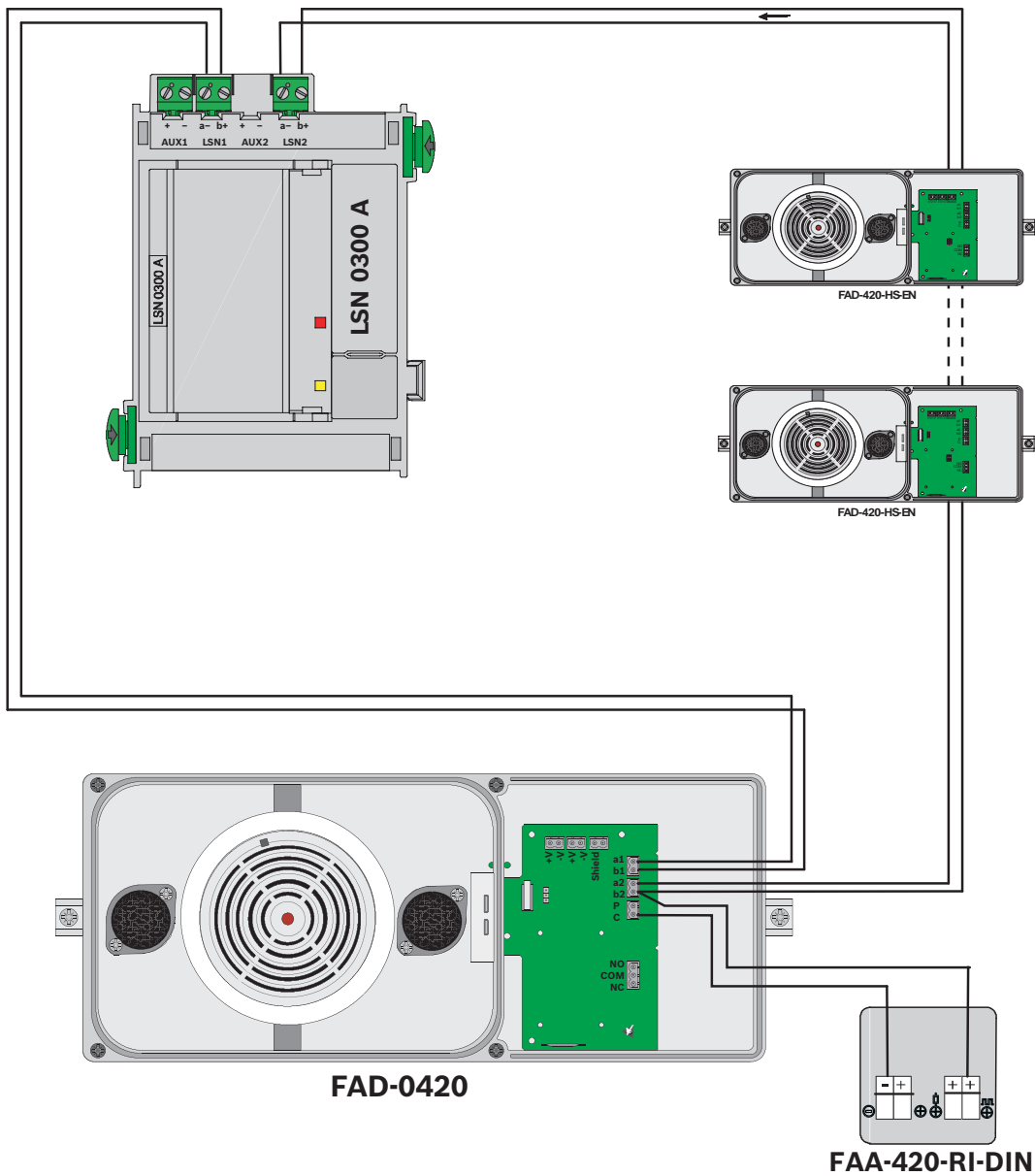


FLM-420-RLV8-S



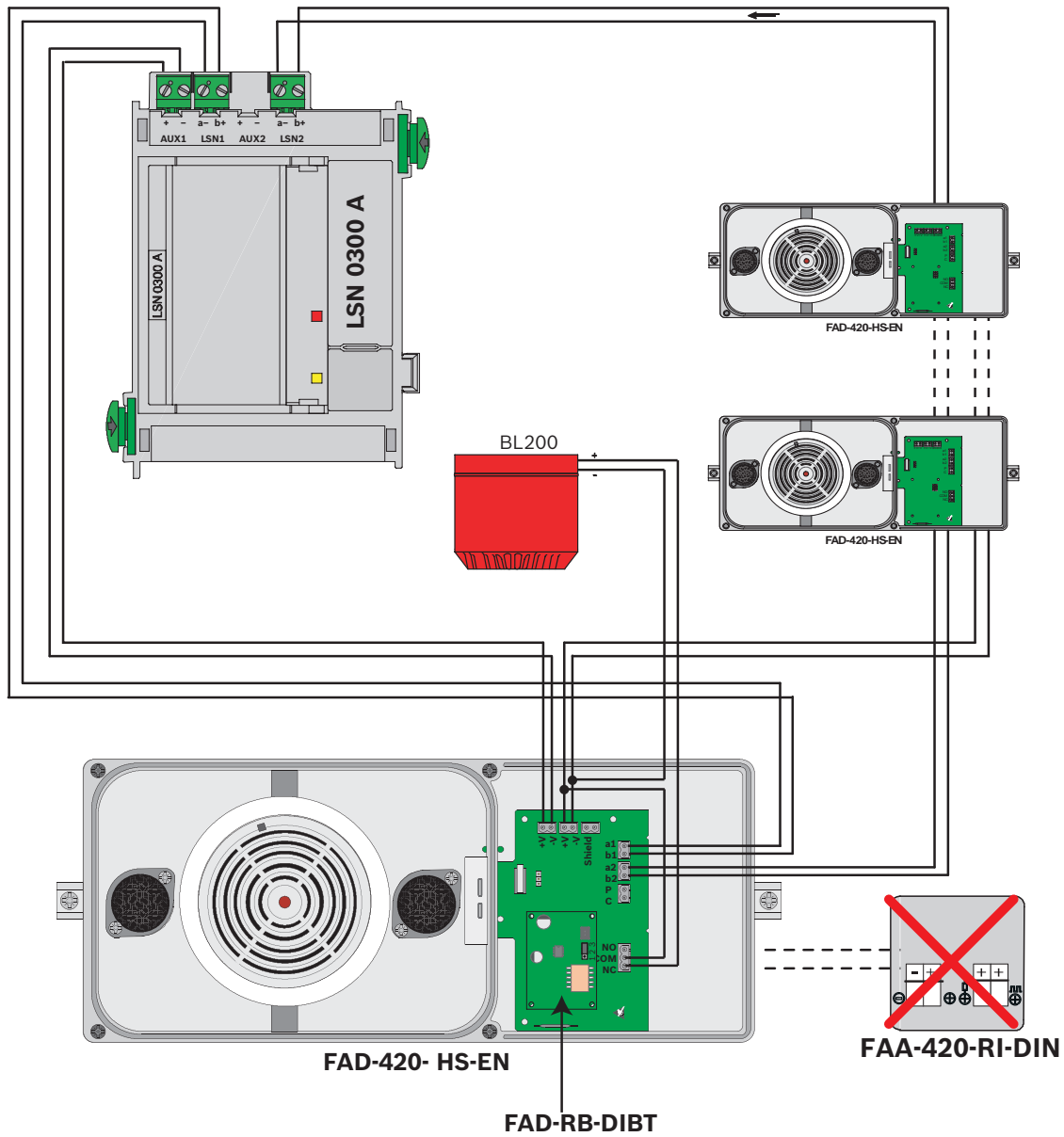


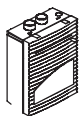
FAD-0420



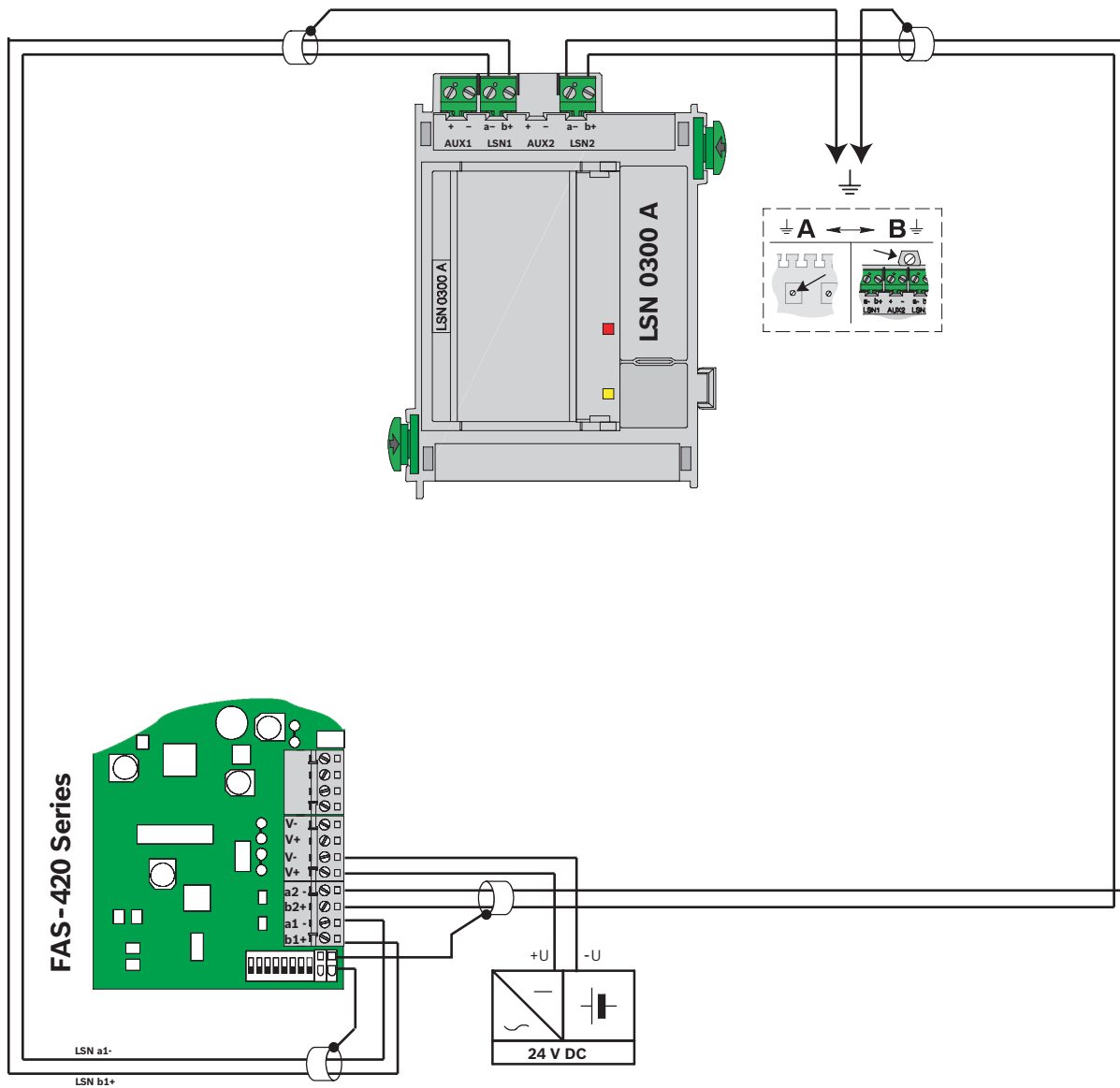


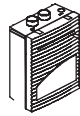
FAD-420-HS-EN



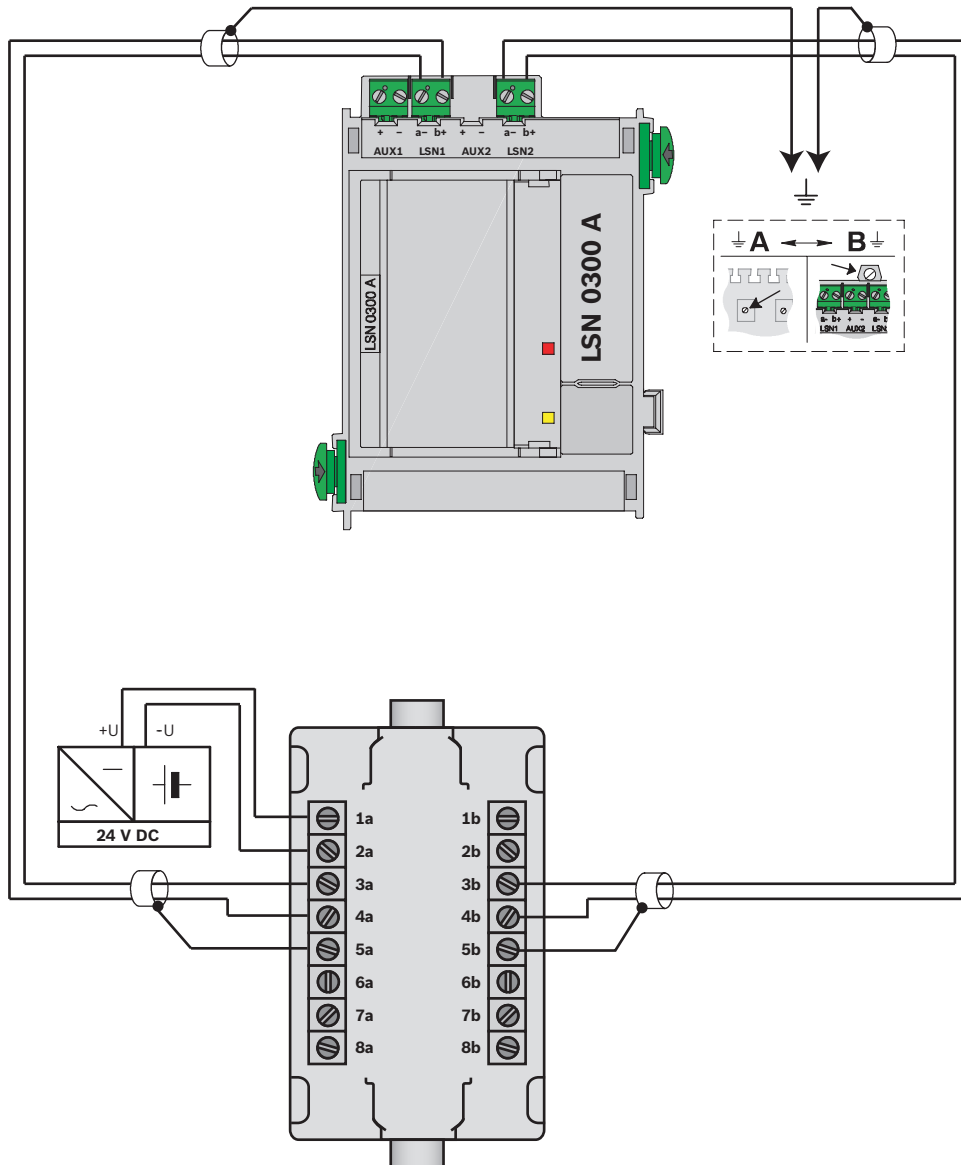


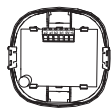
FAS-420 Series



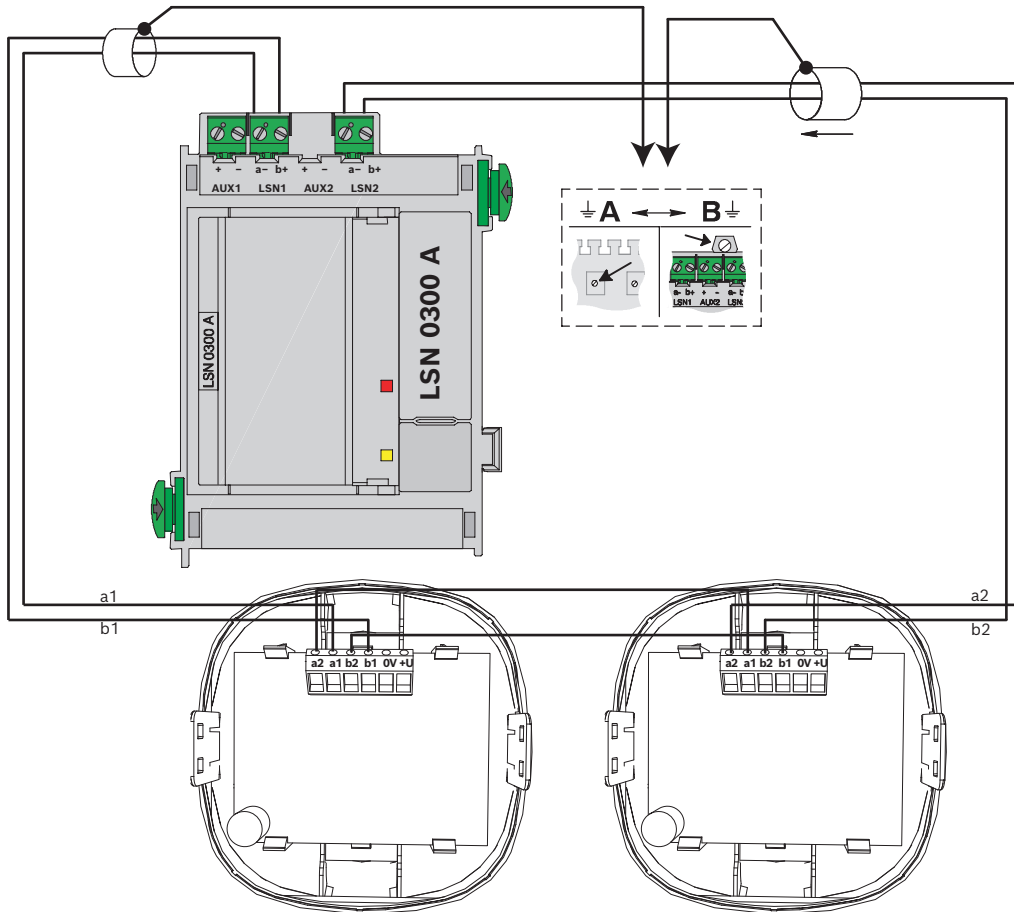
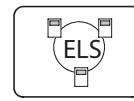


FAS-420-TM Series





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

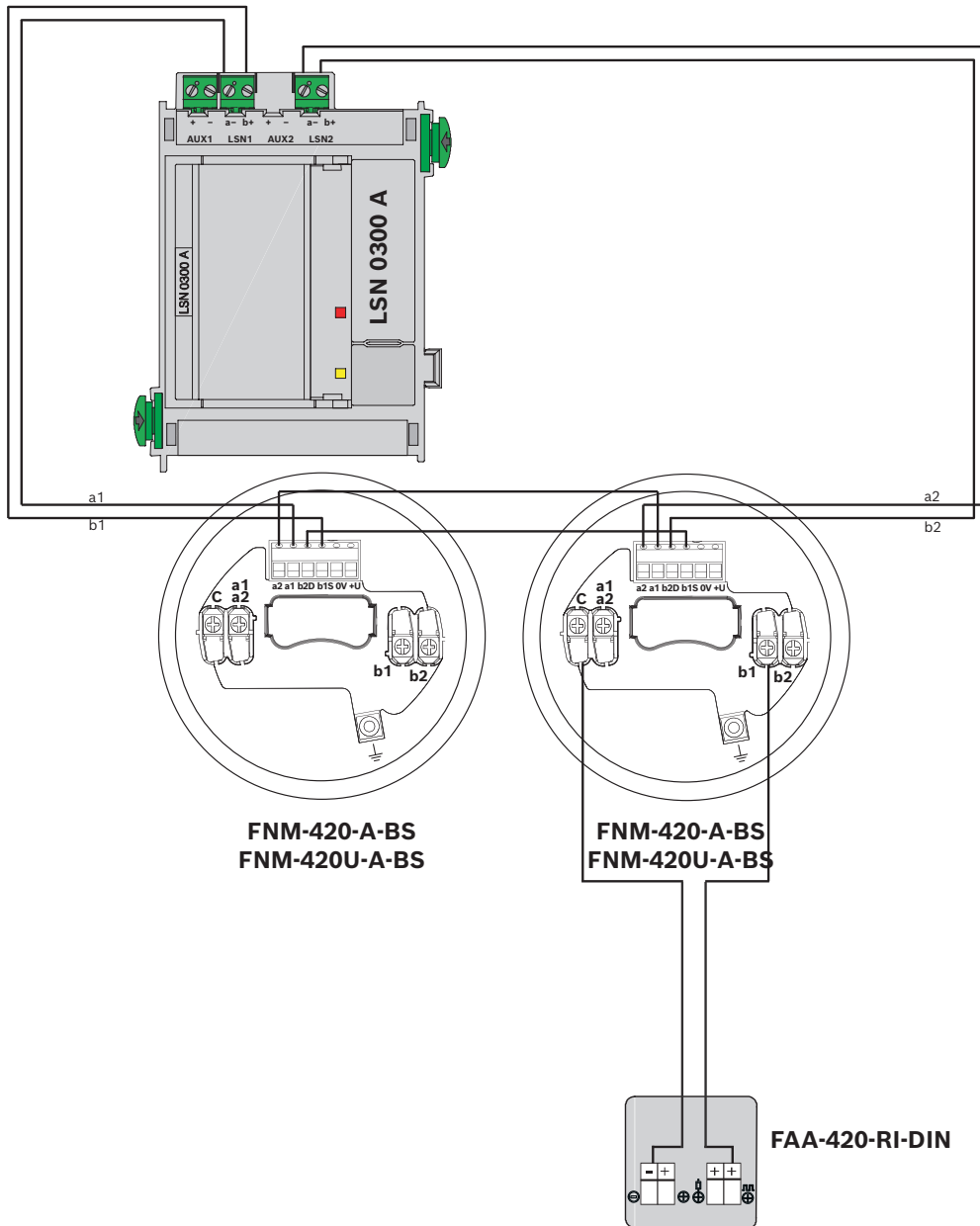
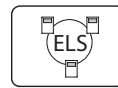


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

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

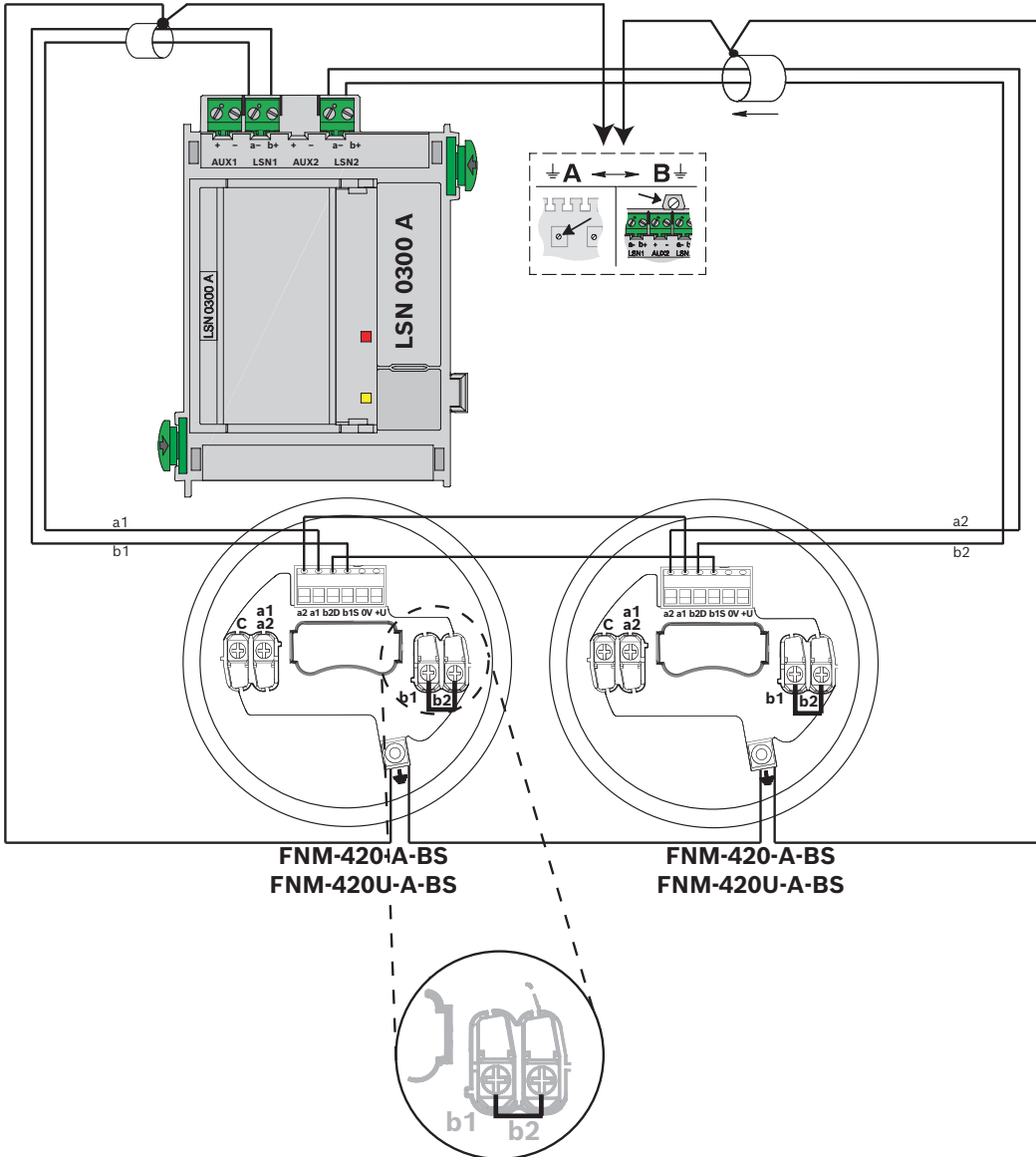
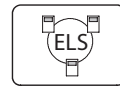


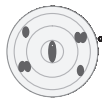
FNM-420-A-BS
FNM-420U-A-BS



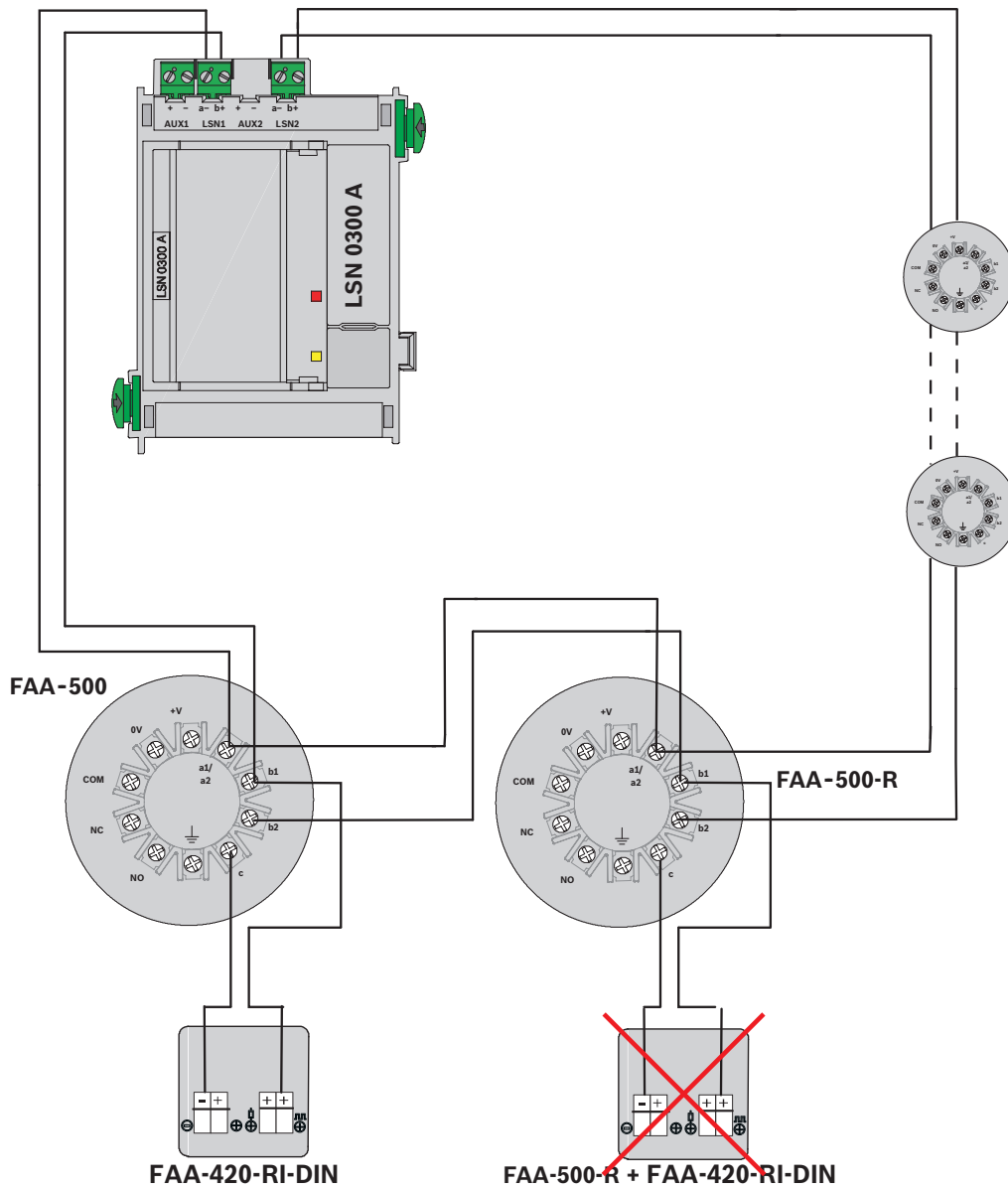
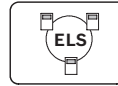


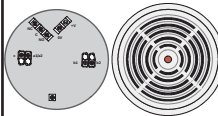
FNM-420-A-BS
FNM-420U-A-BS



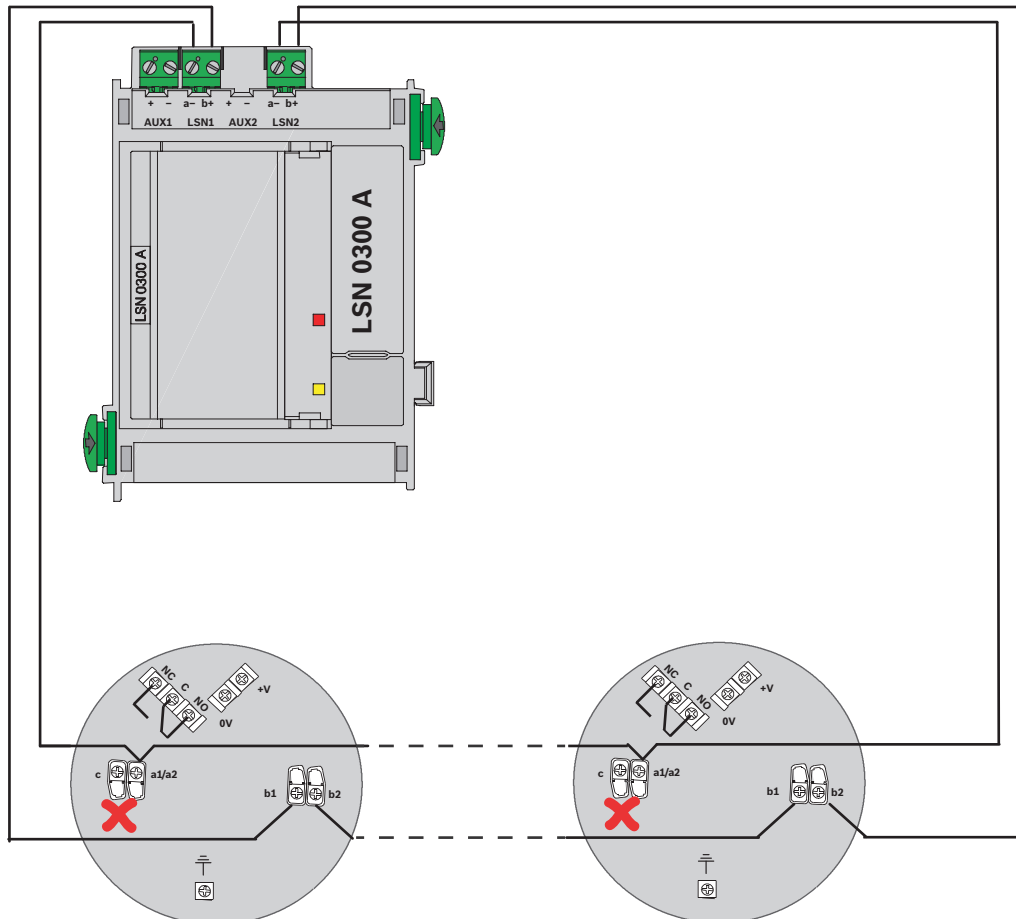
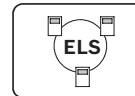


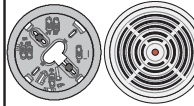
FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P



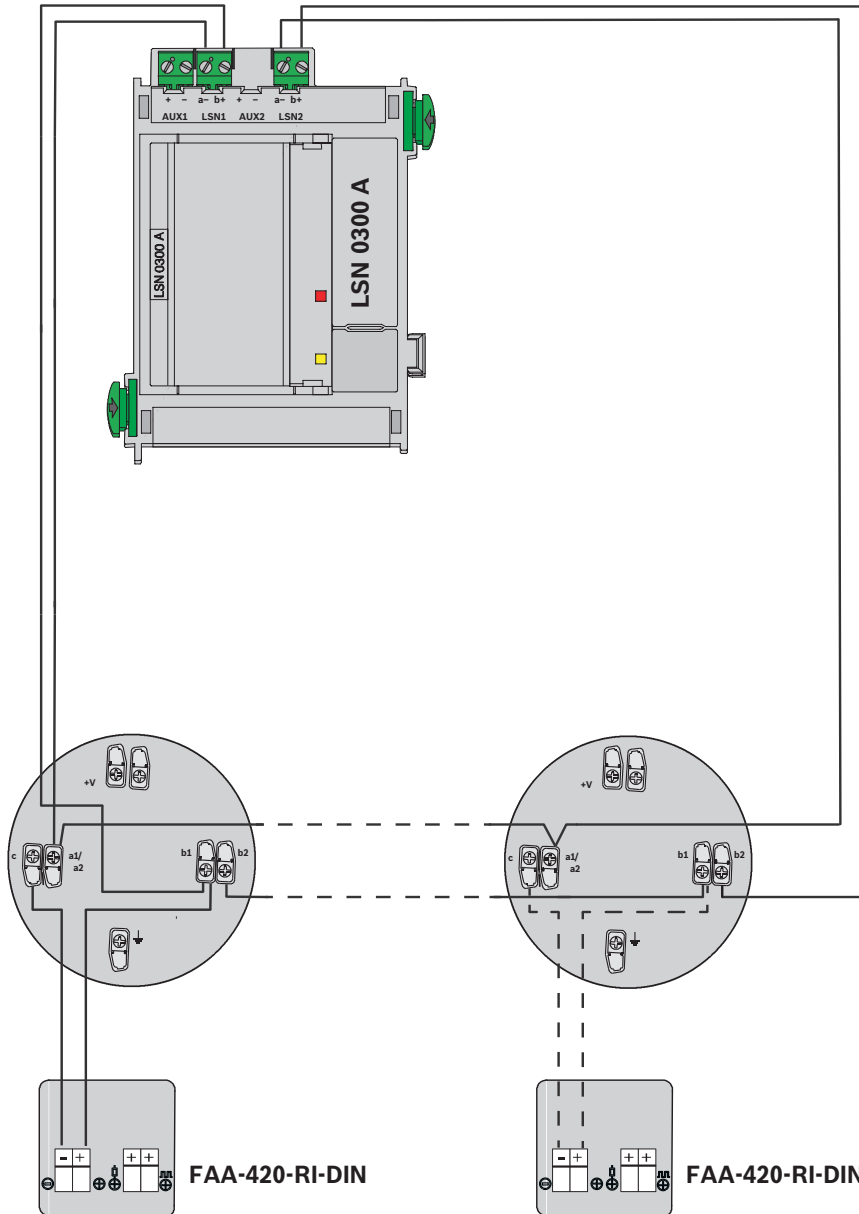
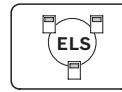


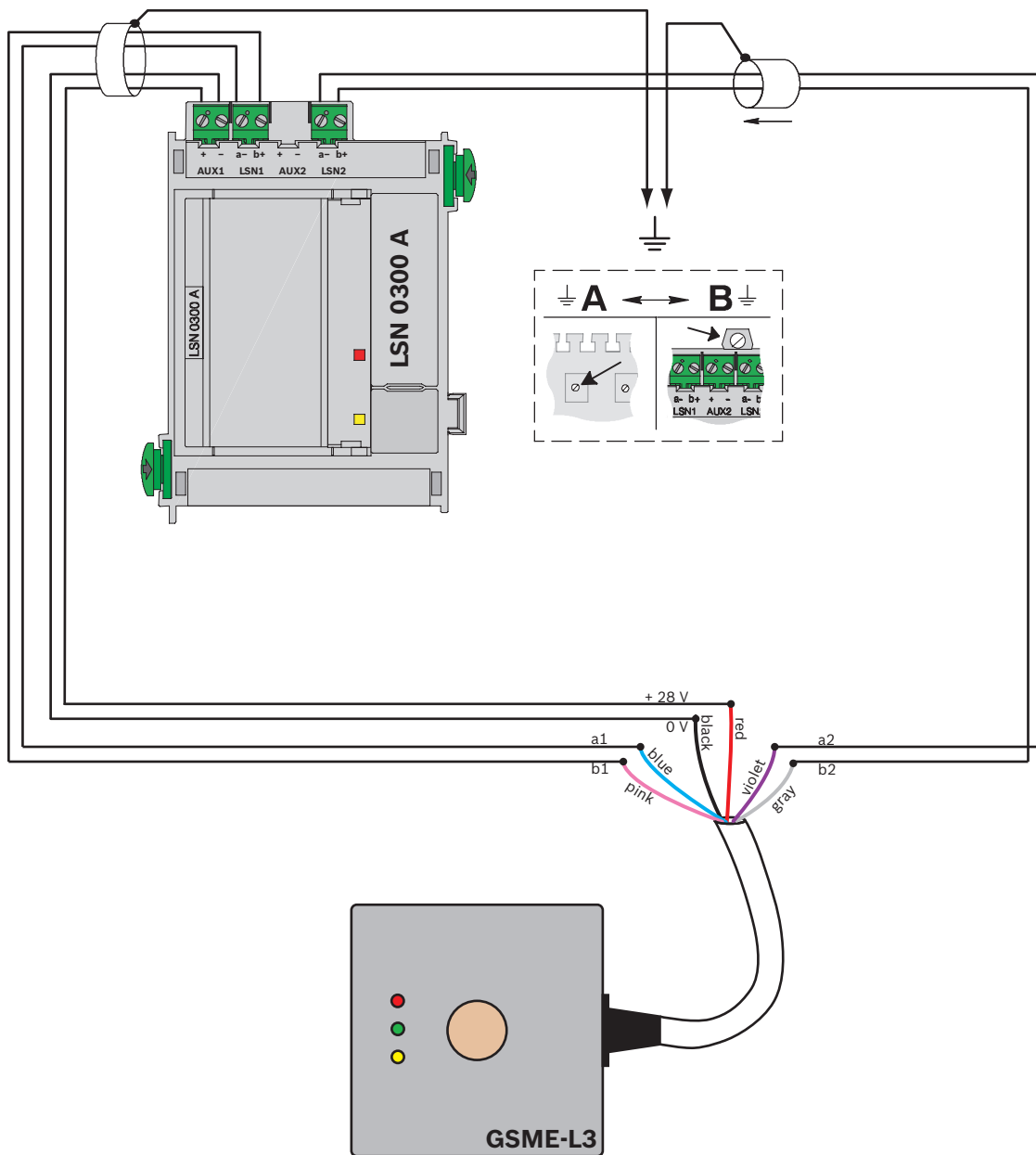
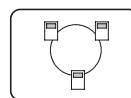
FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R

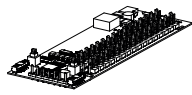




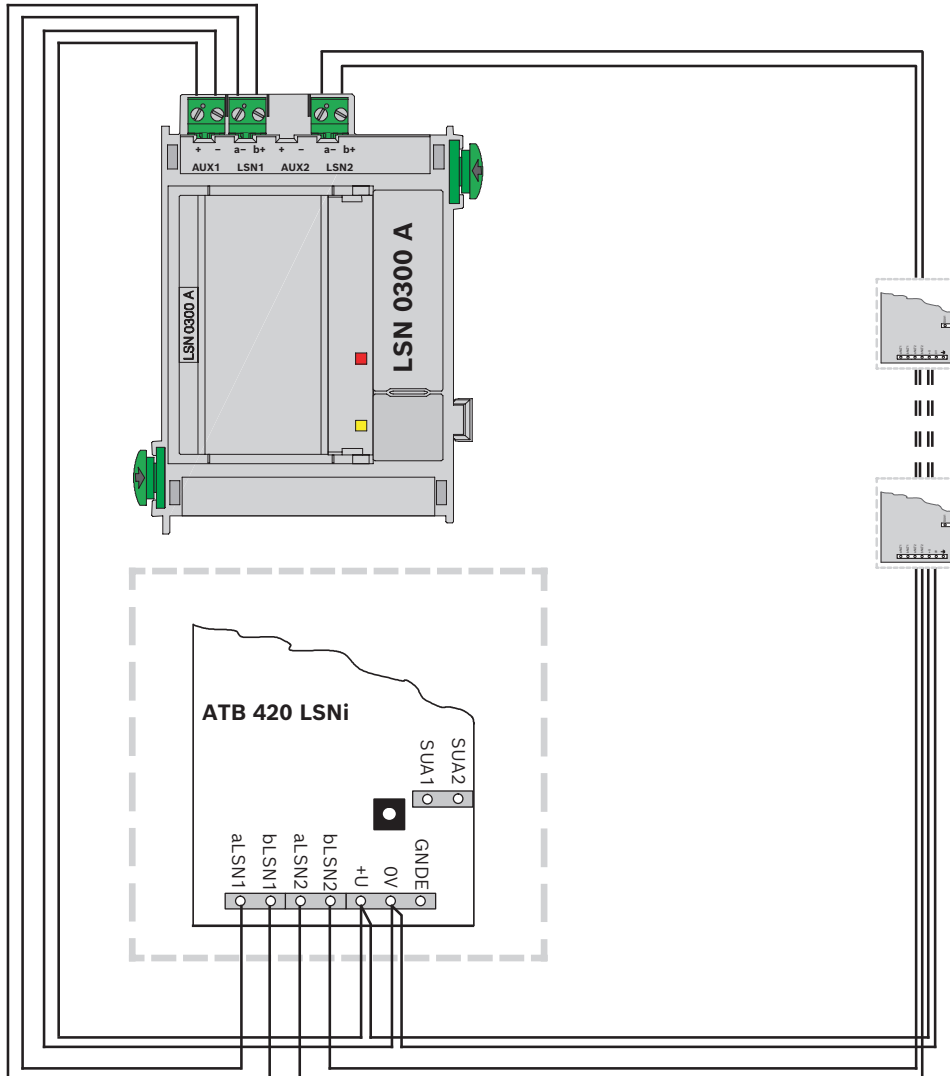
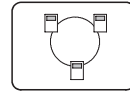
MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R





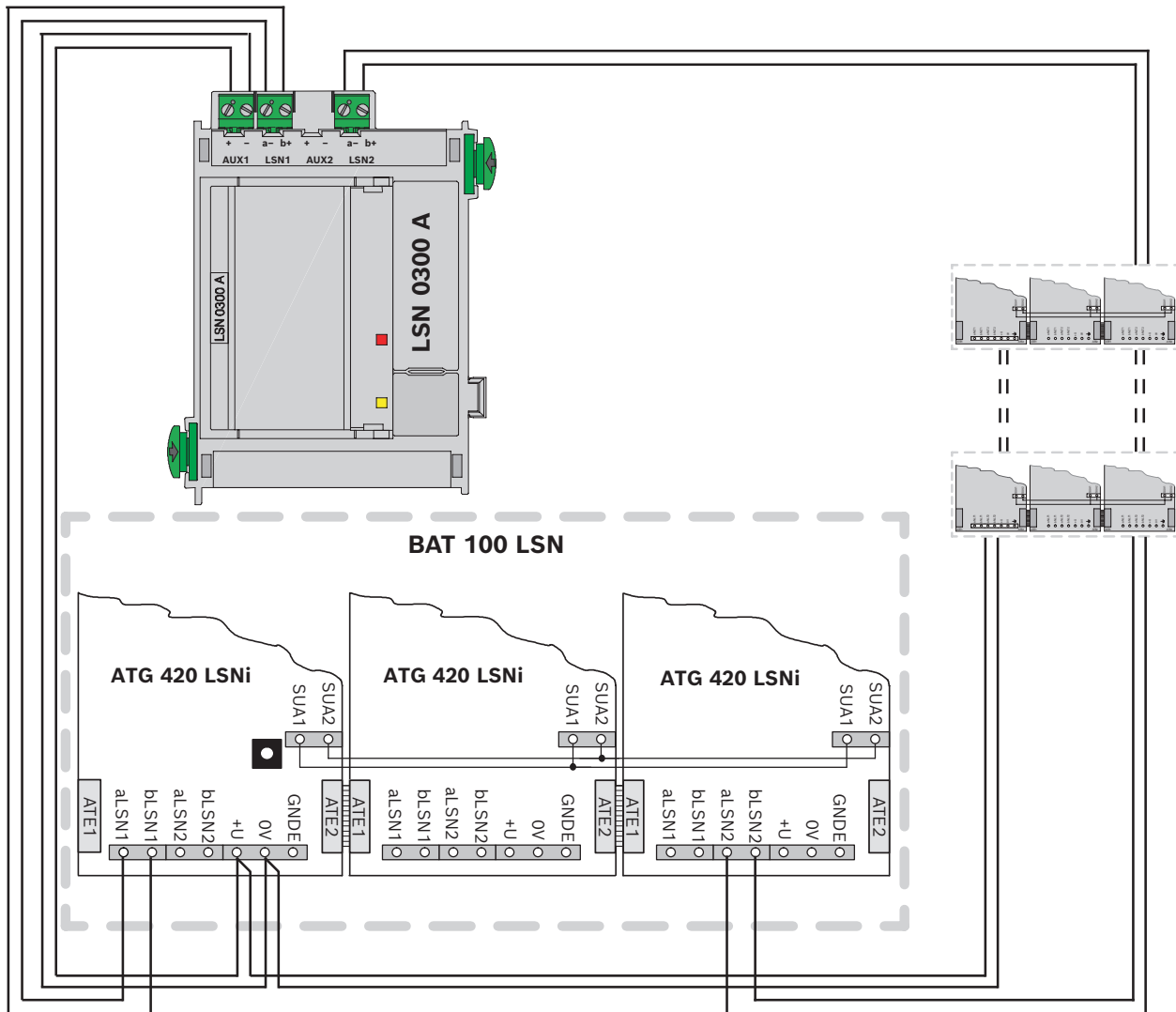
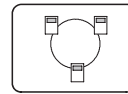


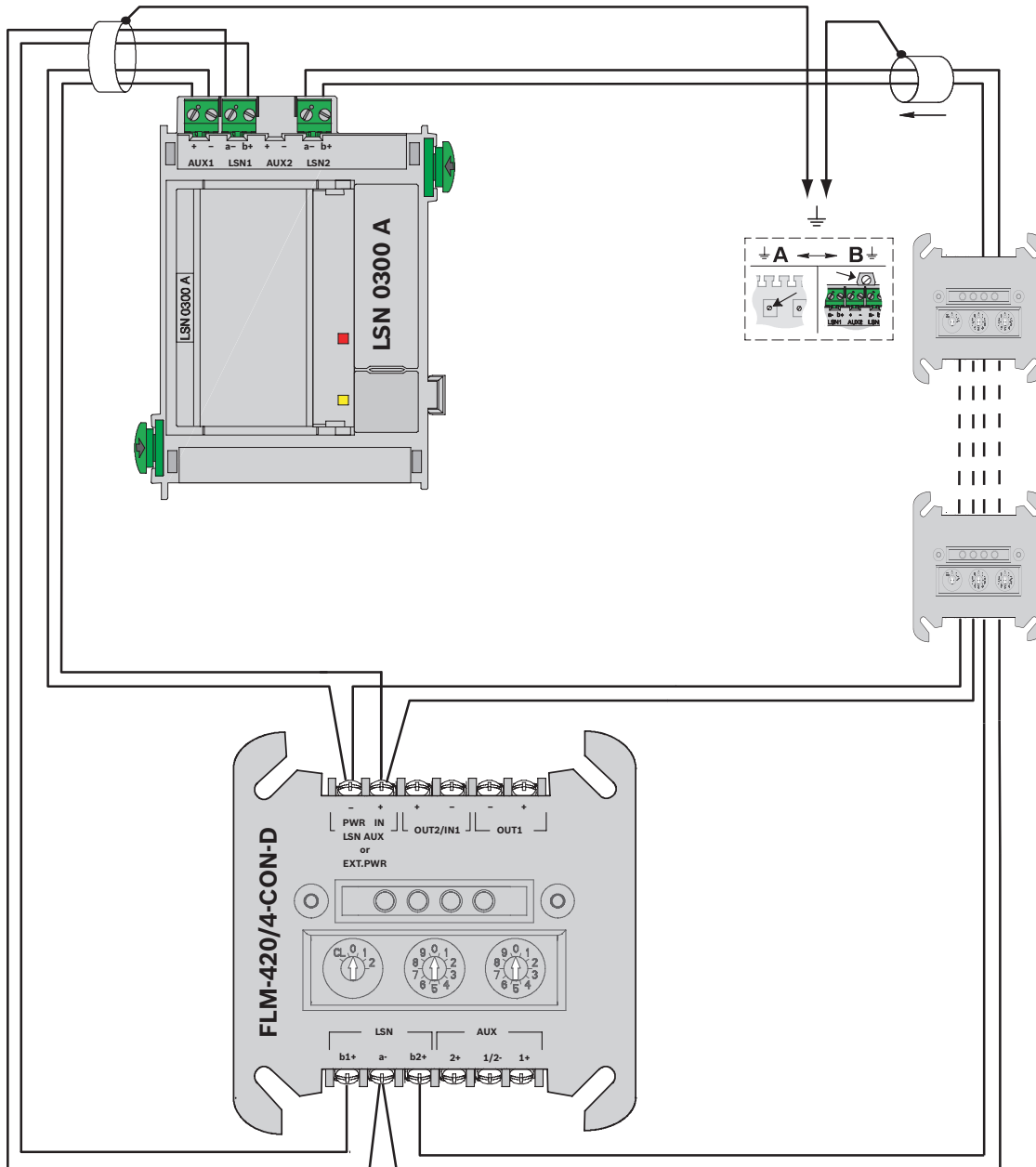
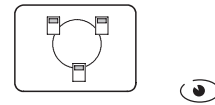
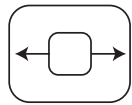
ATB 420 LSNi





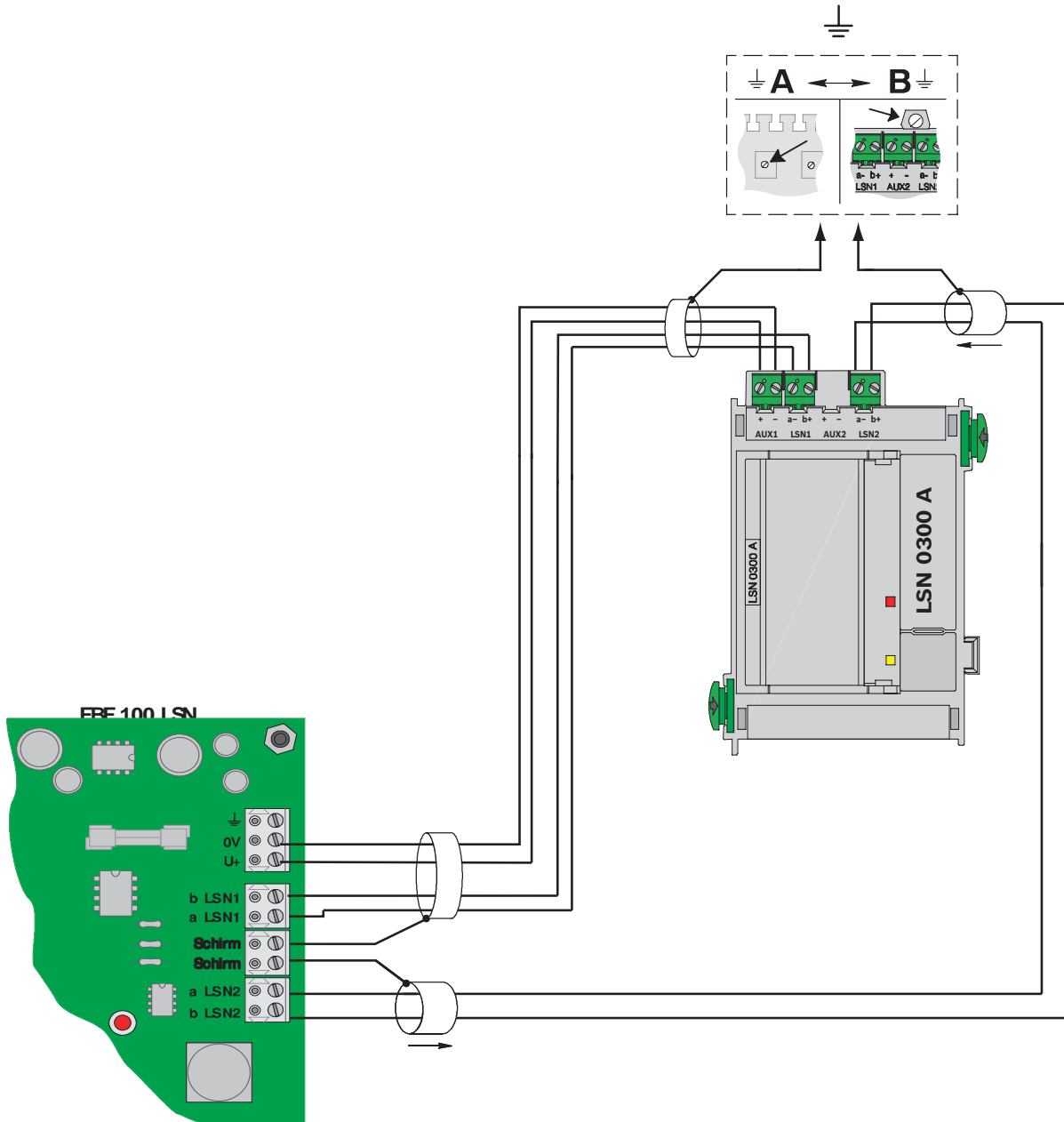
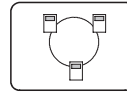
BAT 100 LSN
ATG 420 LSNi

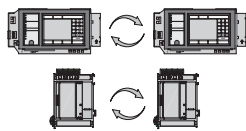




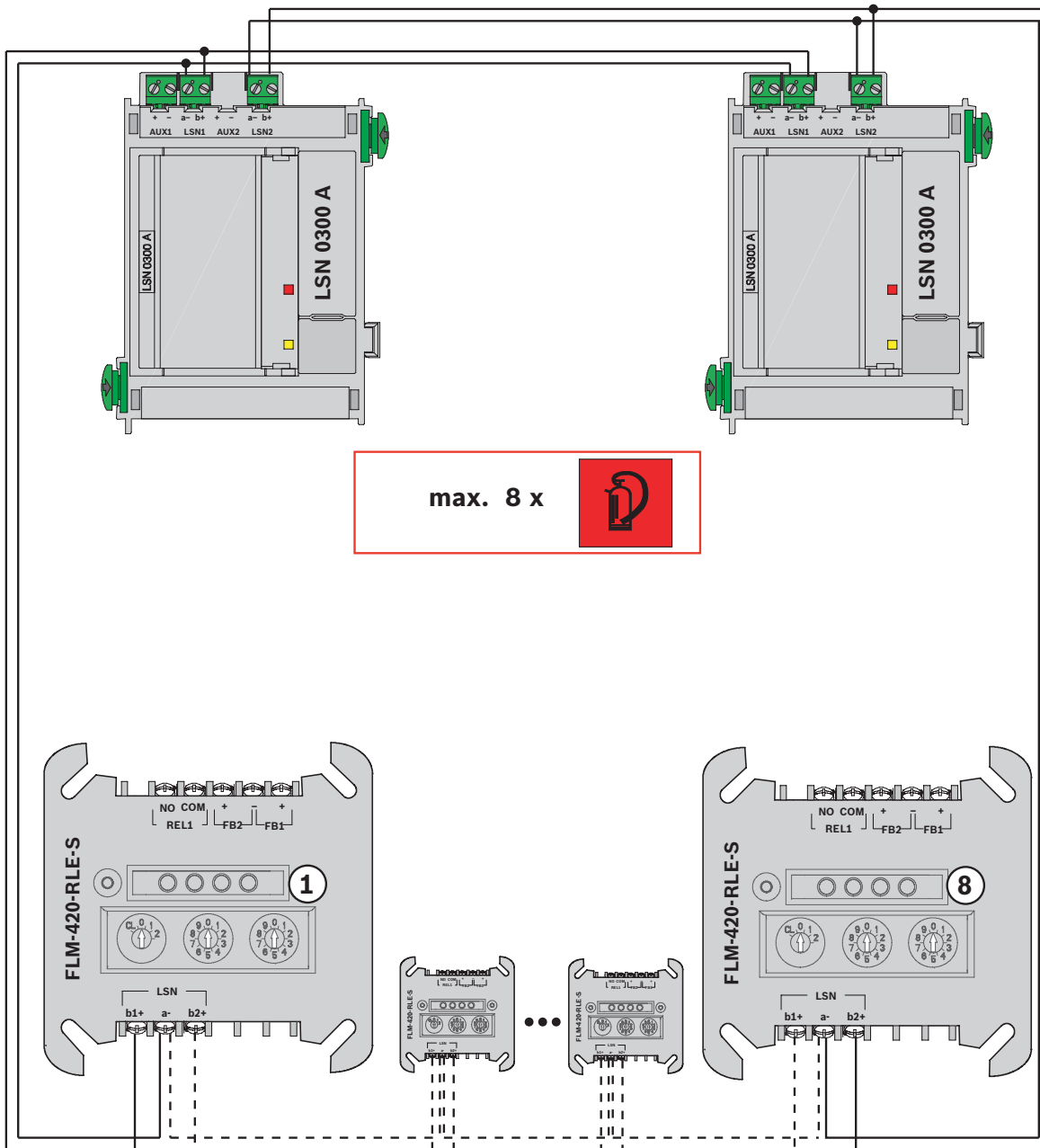
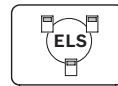


FBF 100 LSN



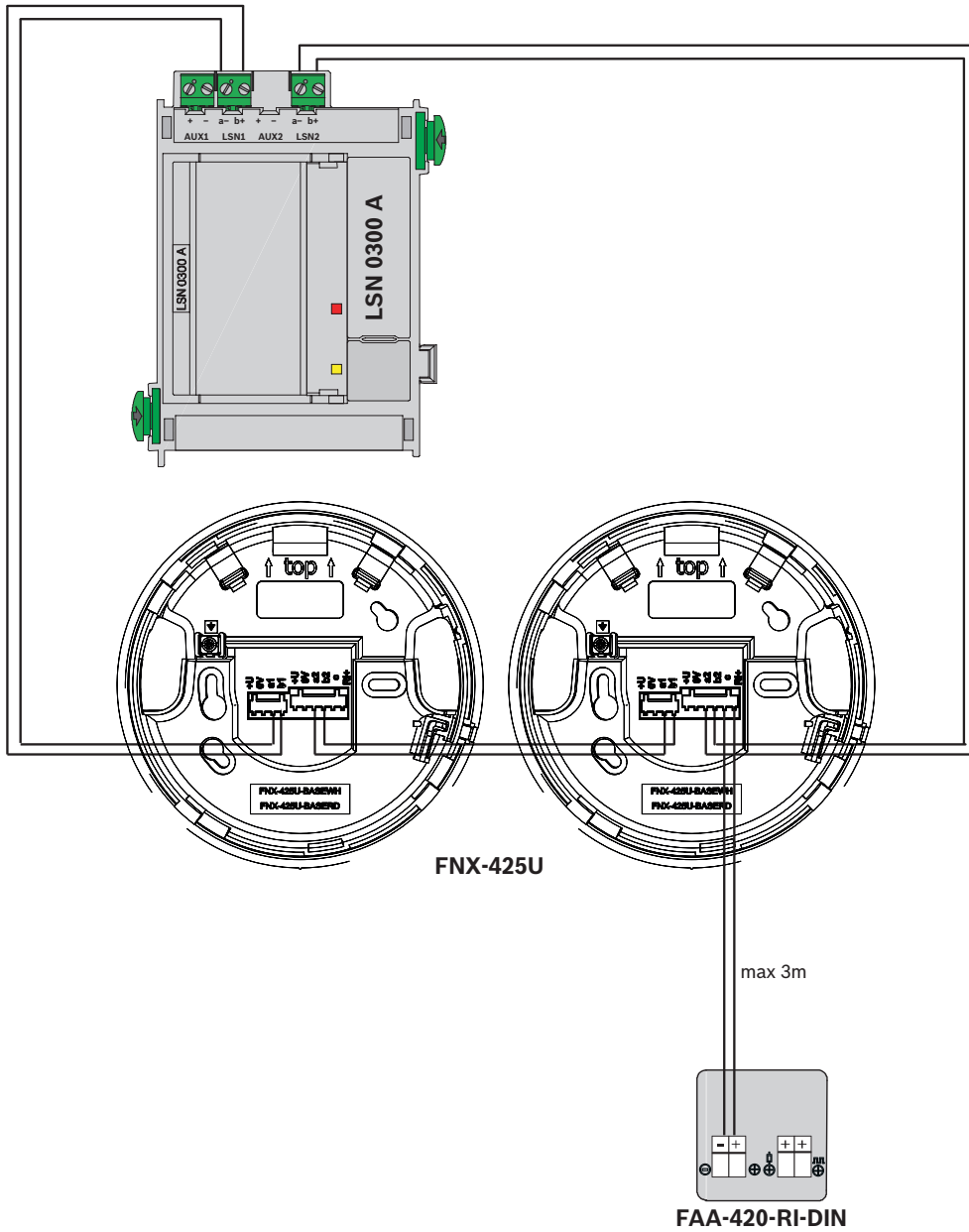
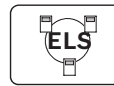


FLM-420-RLE-S





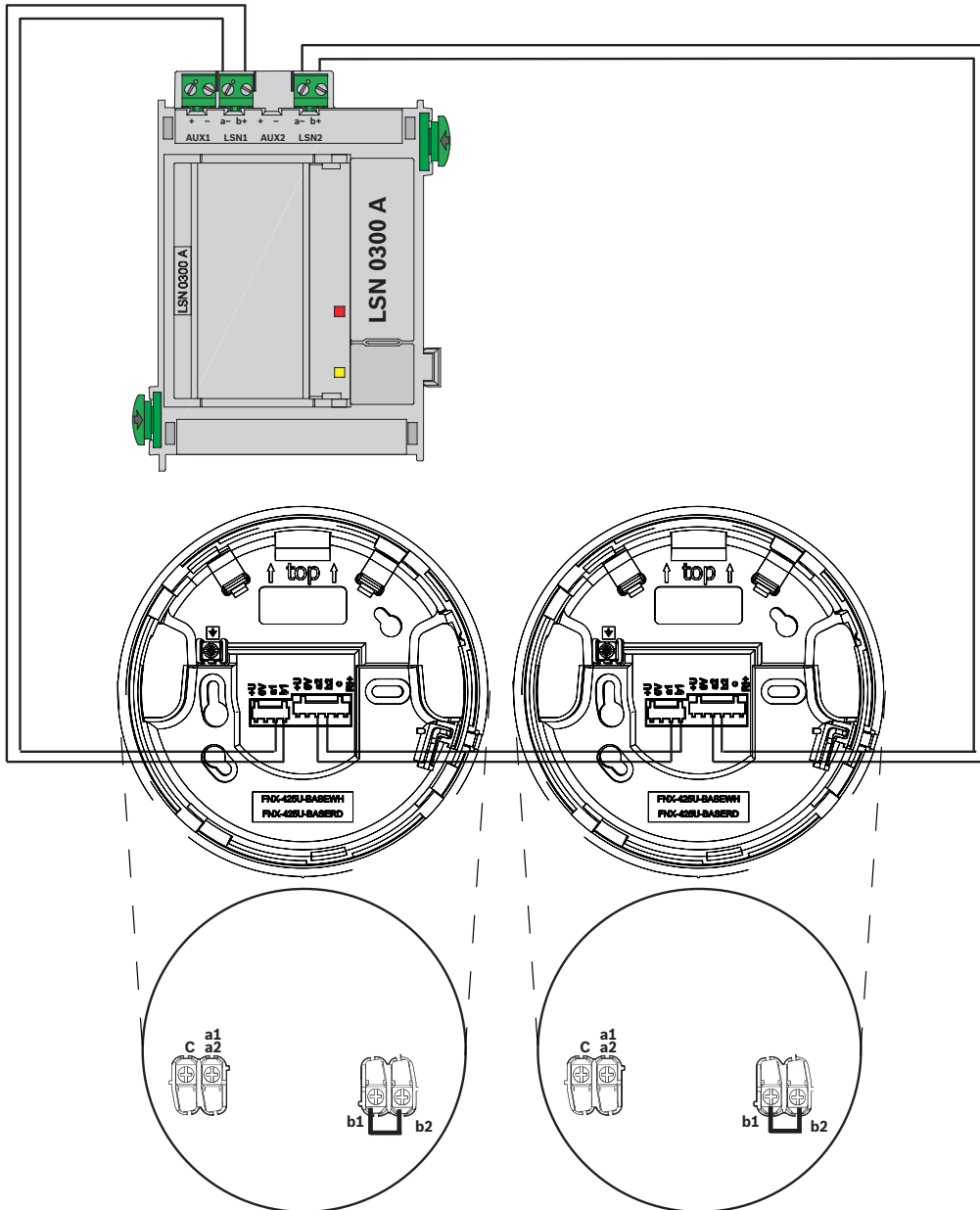
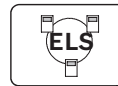
FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD

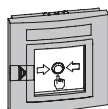
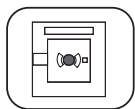




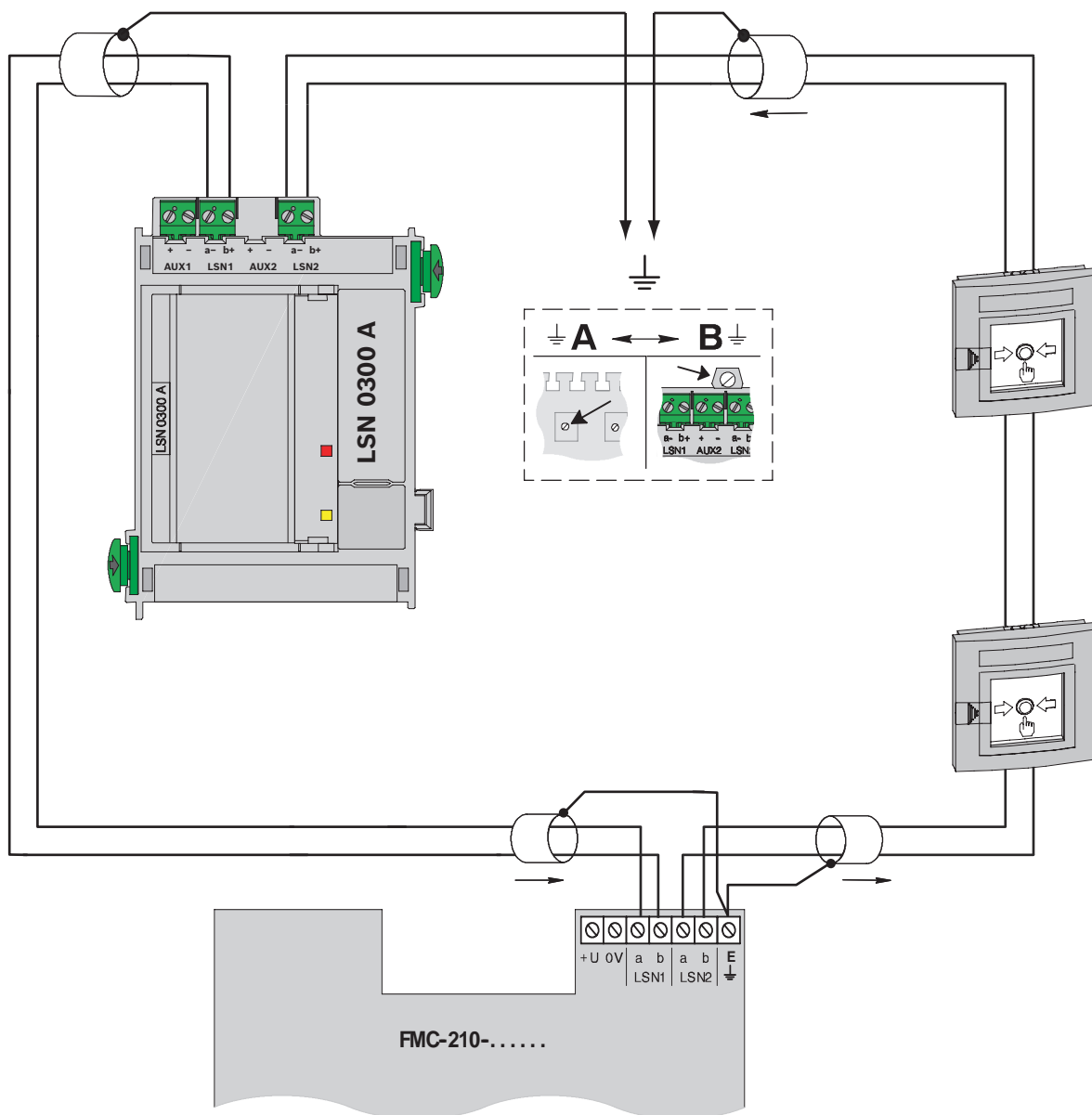
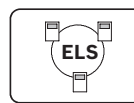
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

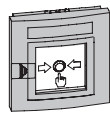
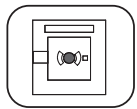
+ FNX-425U-COVWH
 FNX-425U-COVRD



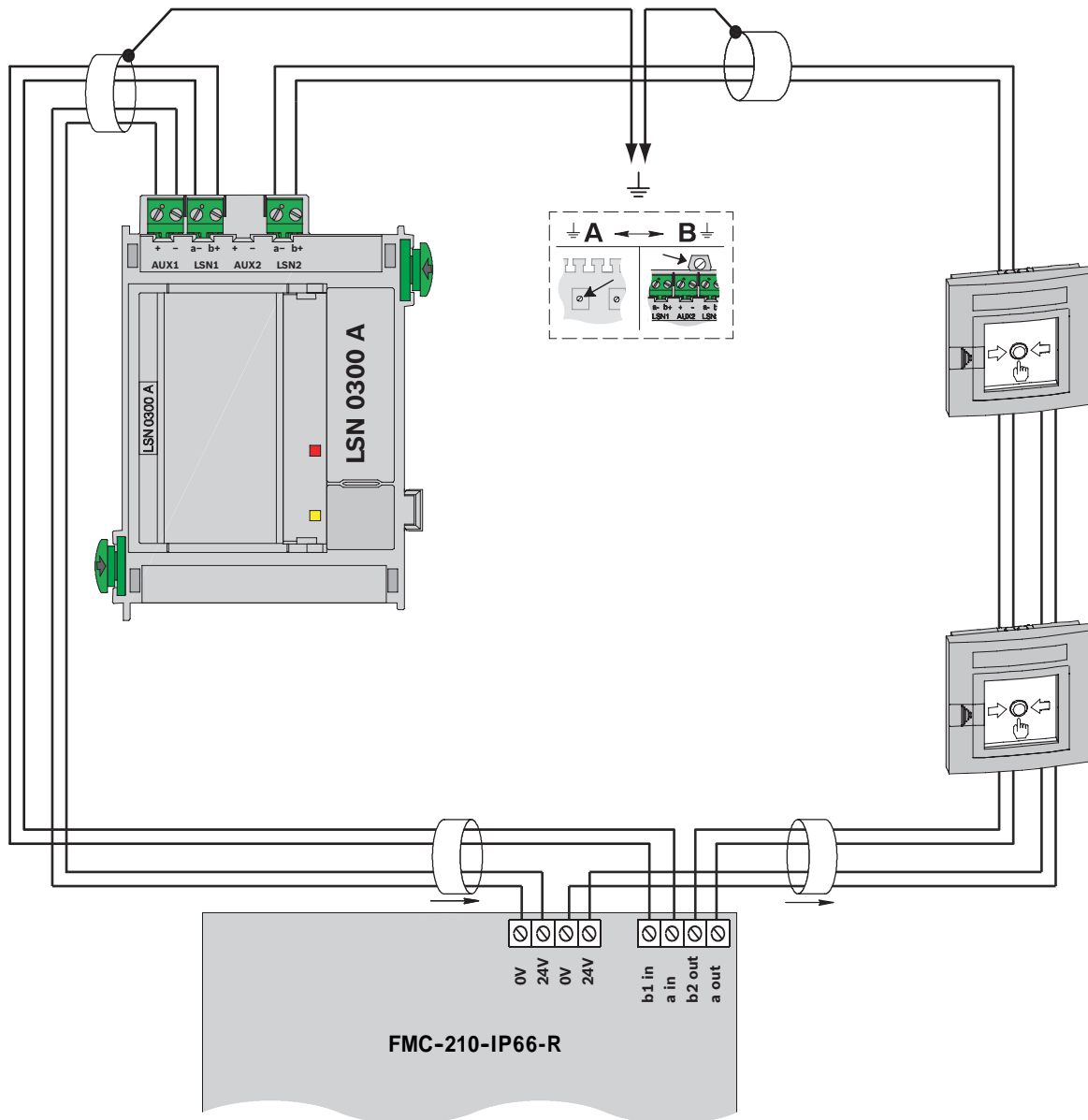
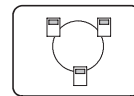


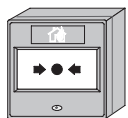
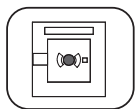
FMC-210...



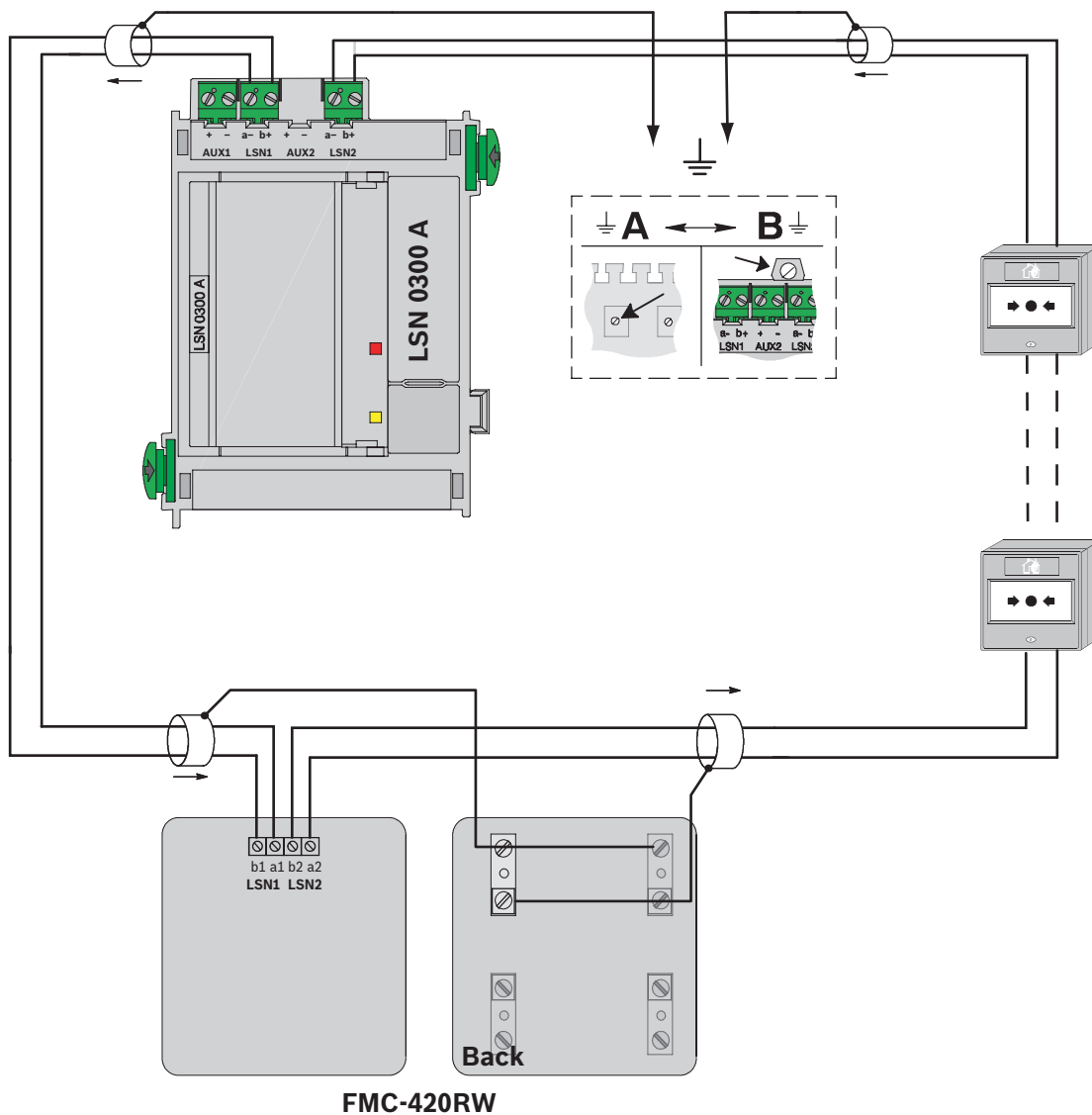
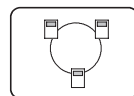


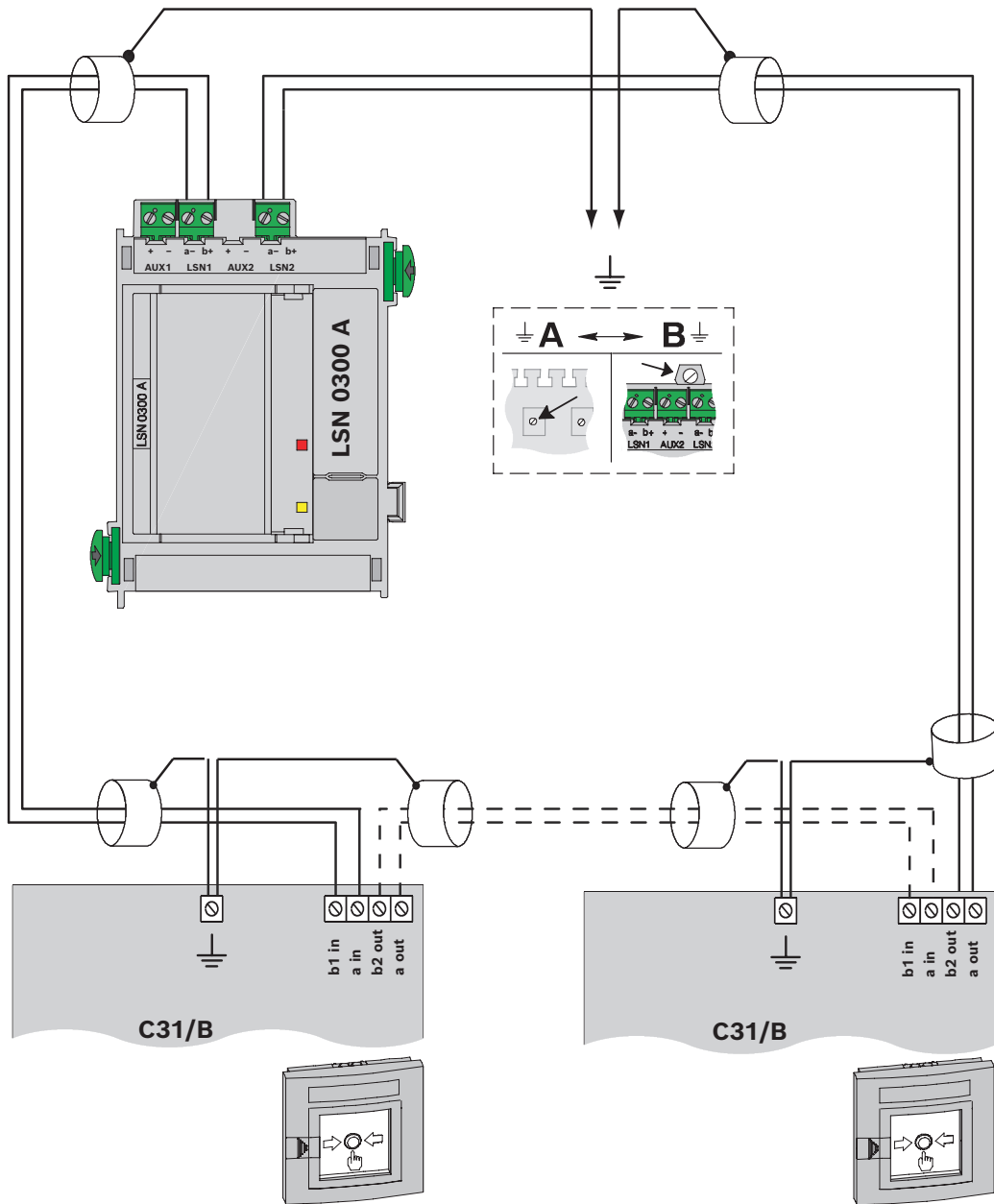
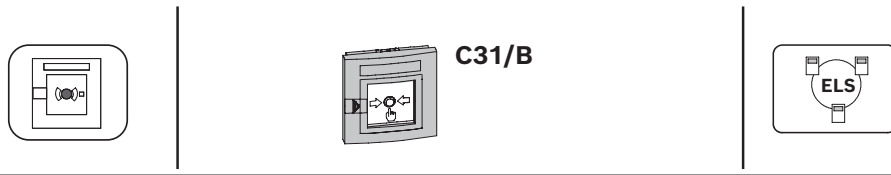
FMC-210-IP66-R

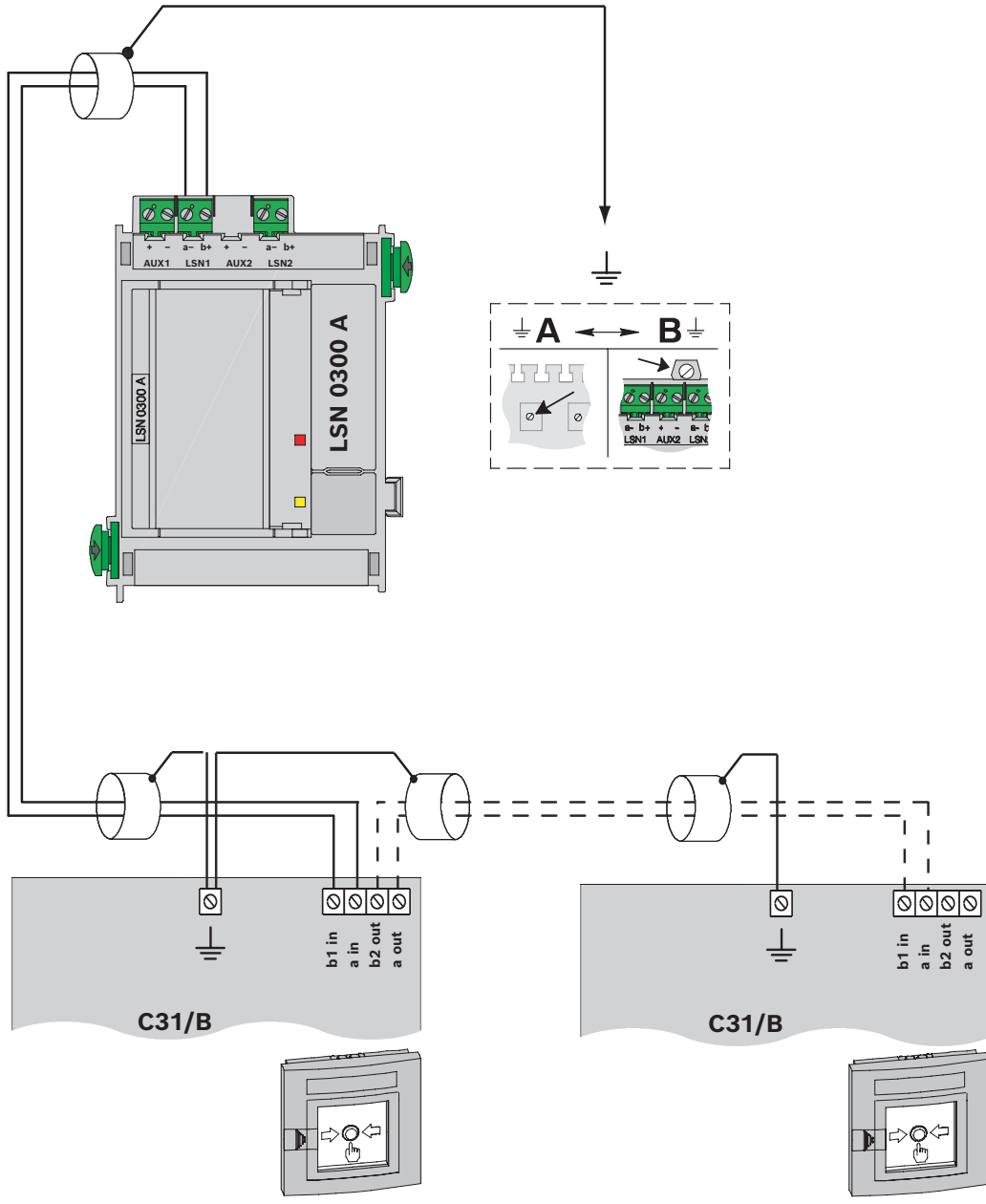
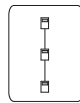
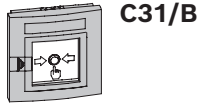
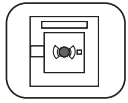


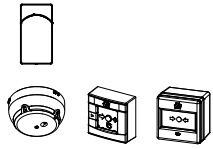


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD



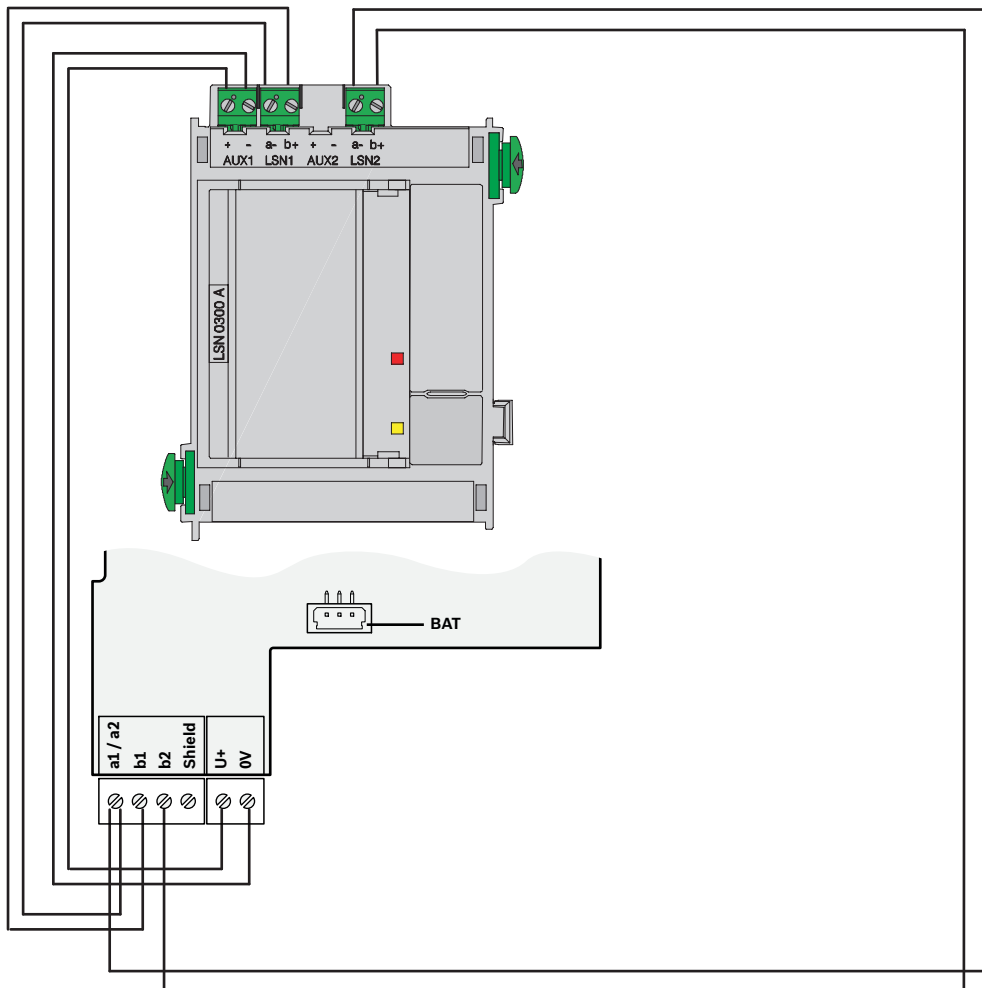
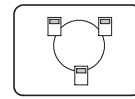






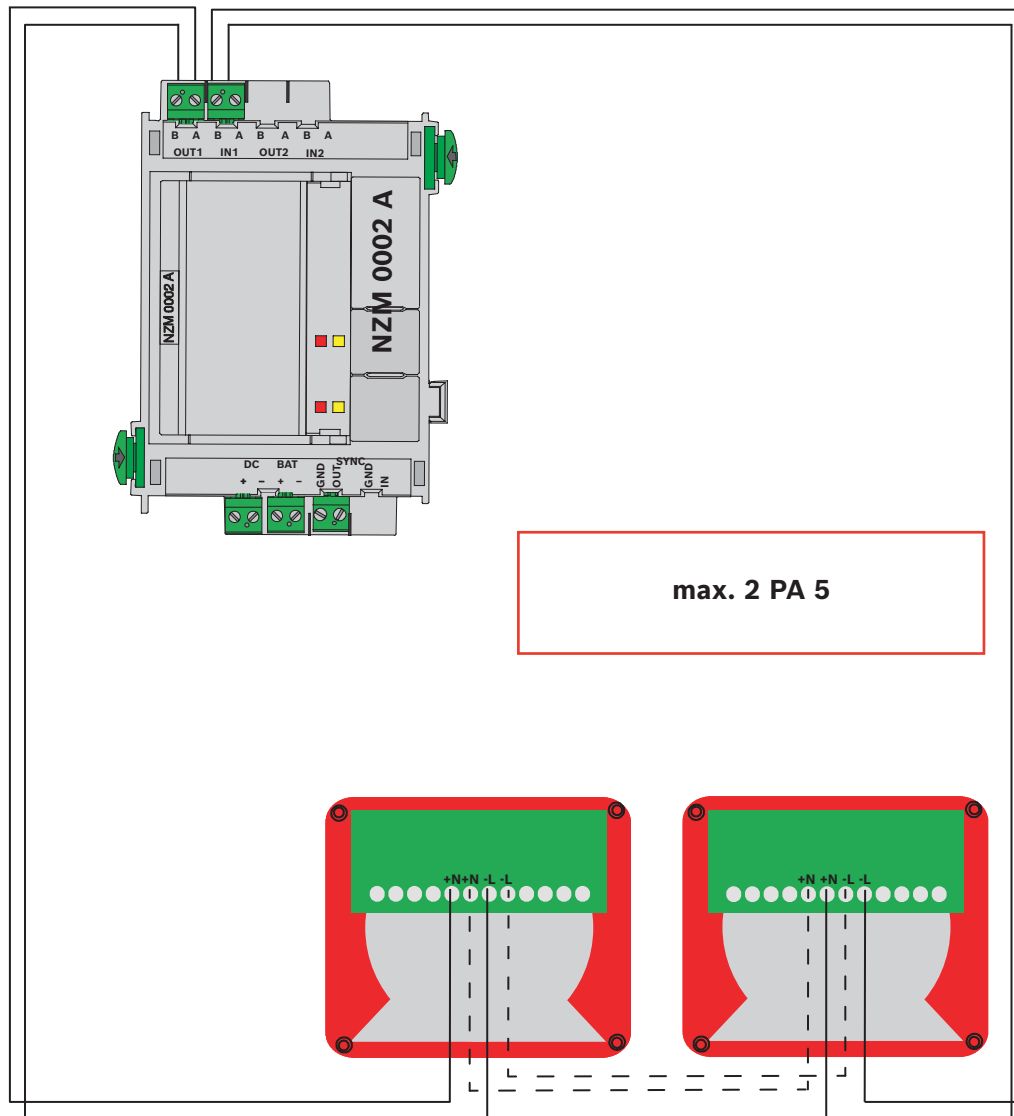
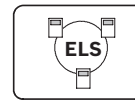
FWI-270

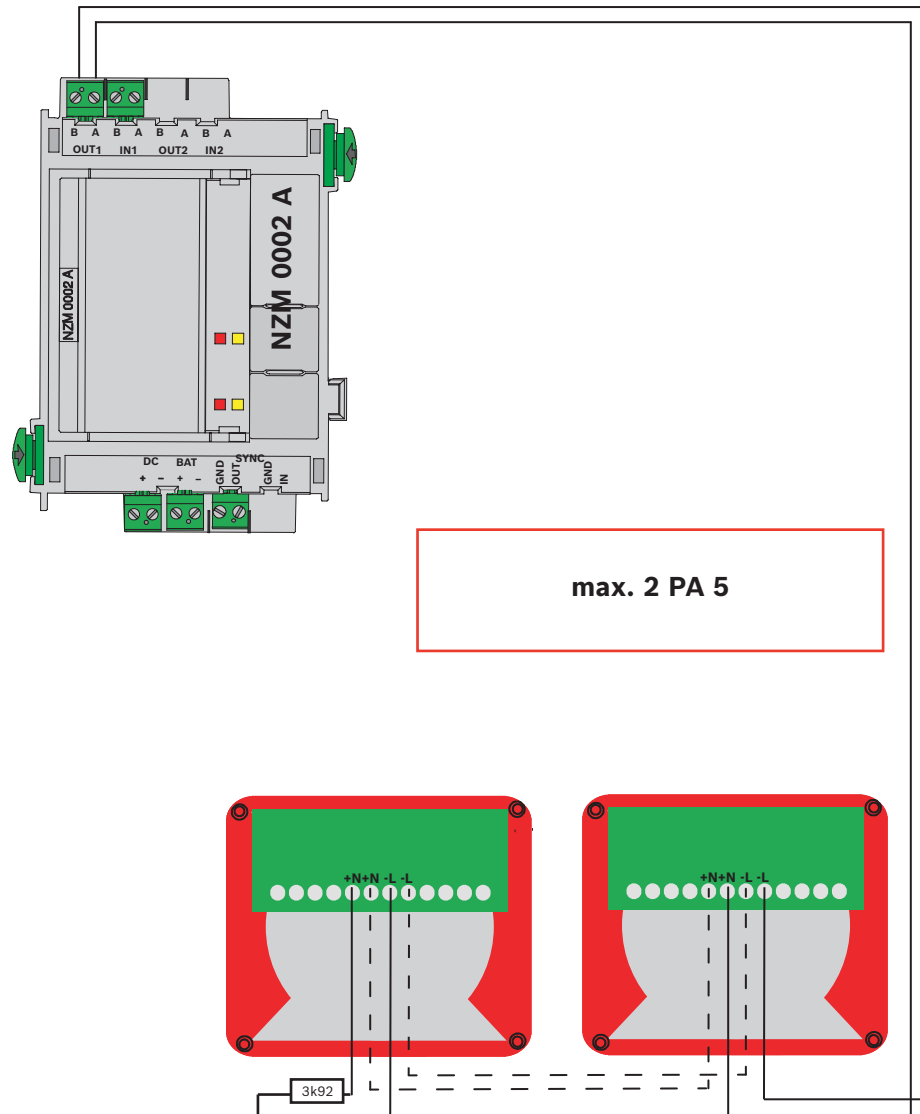
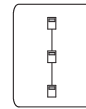
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FDM275-O
FDM273-O

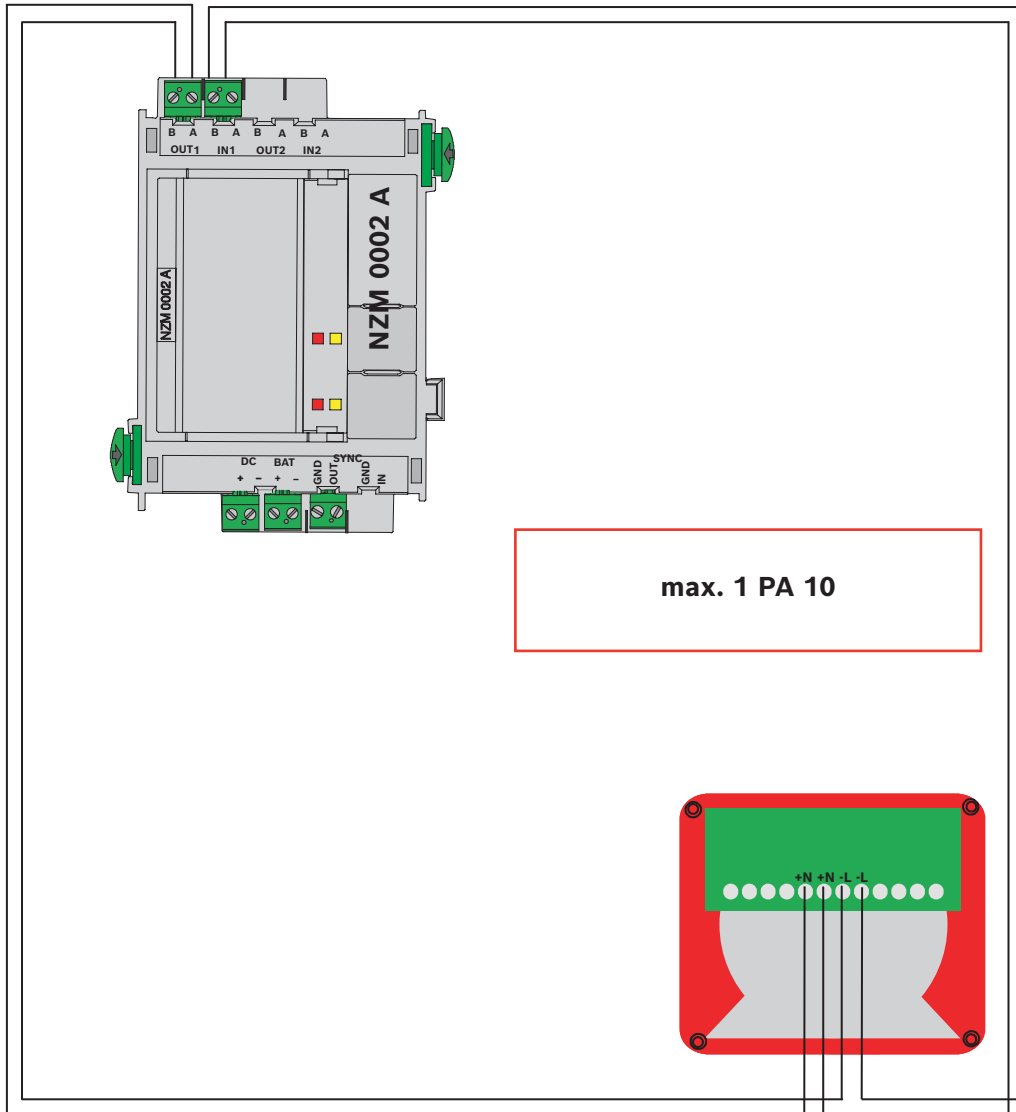
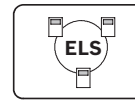
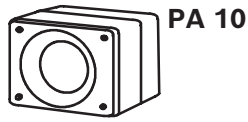


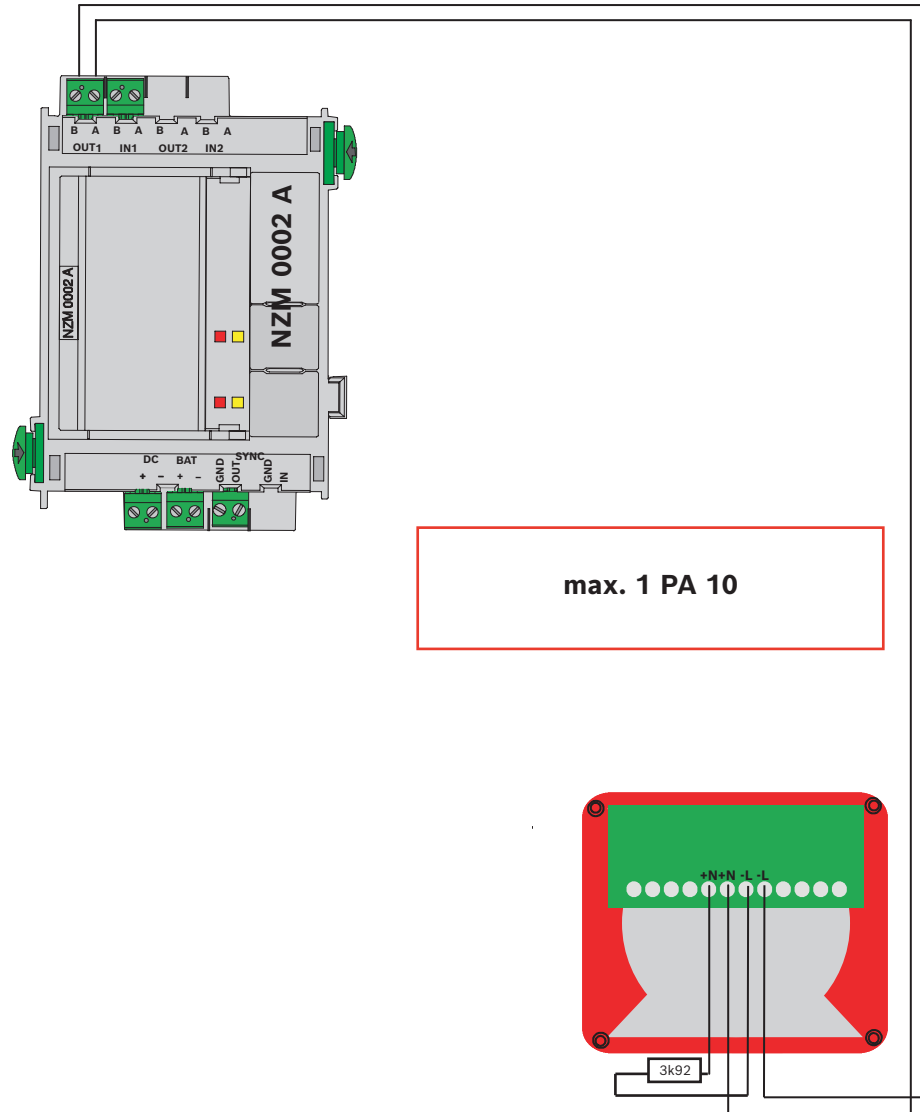
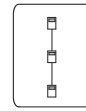
2.4.5

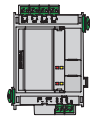
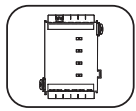
NZM 0002 A



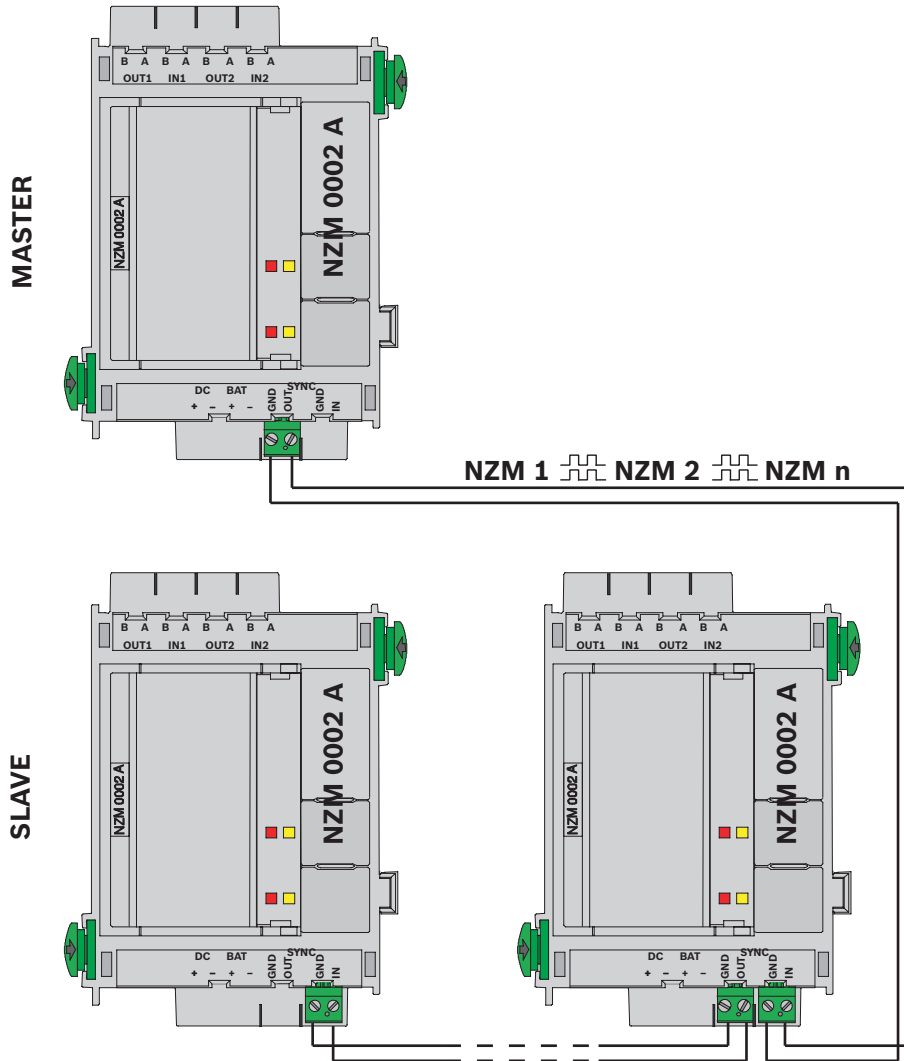


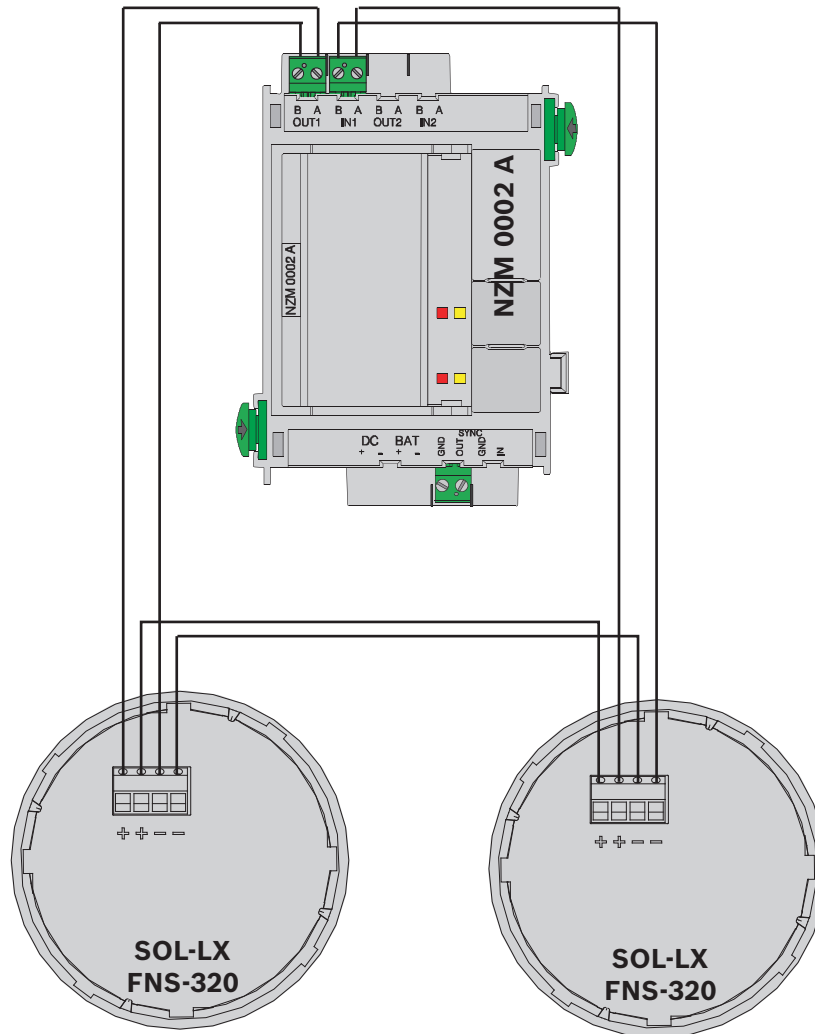
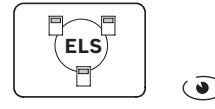






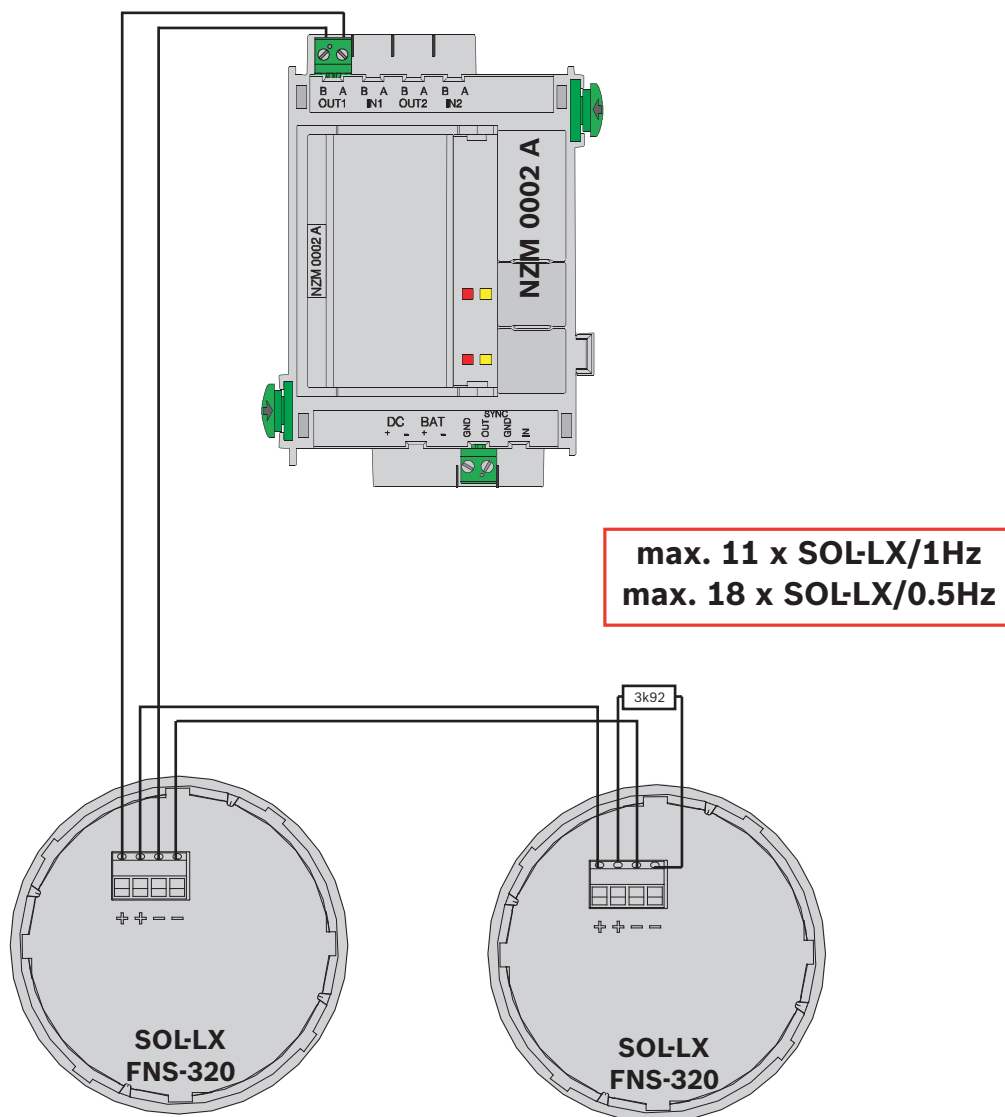
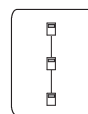
NZM 0002 A

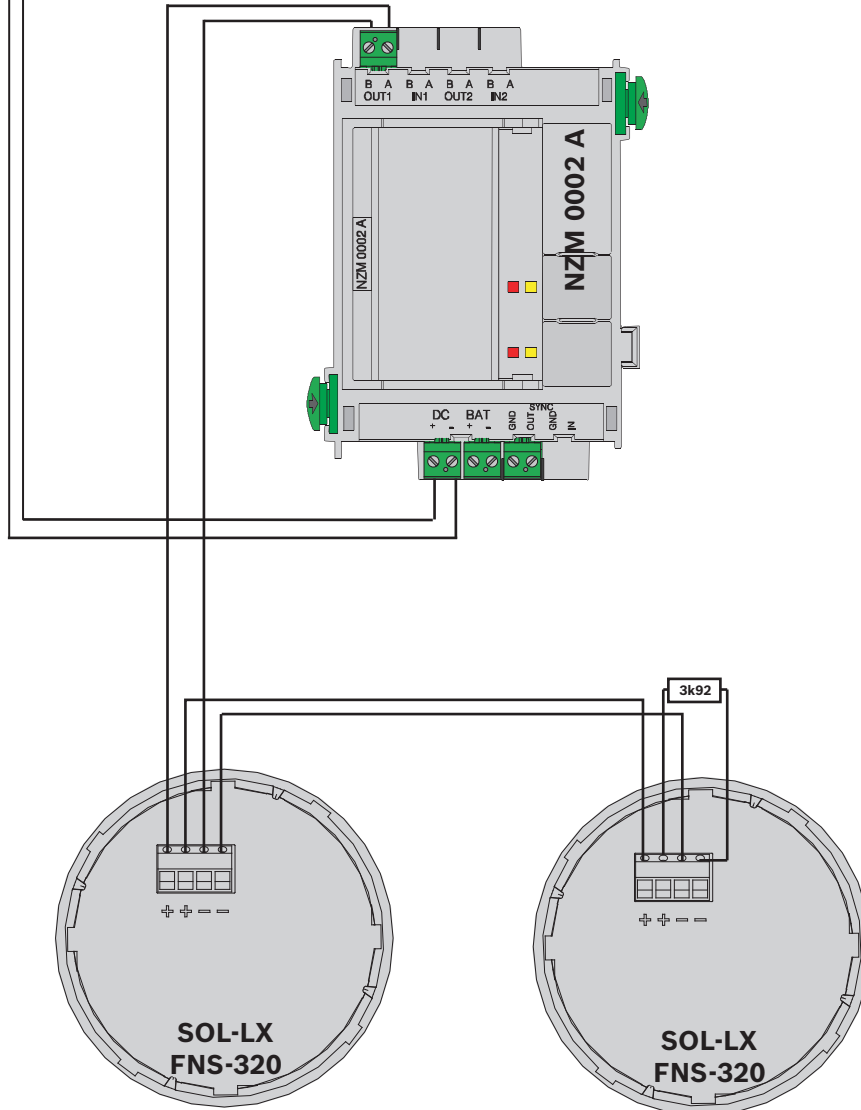
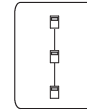


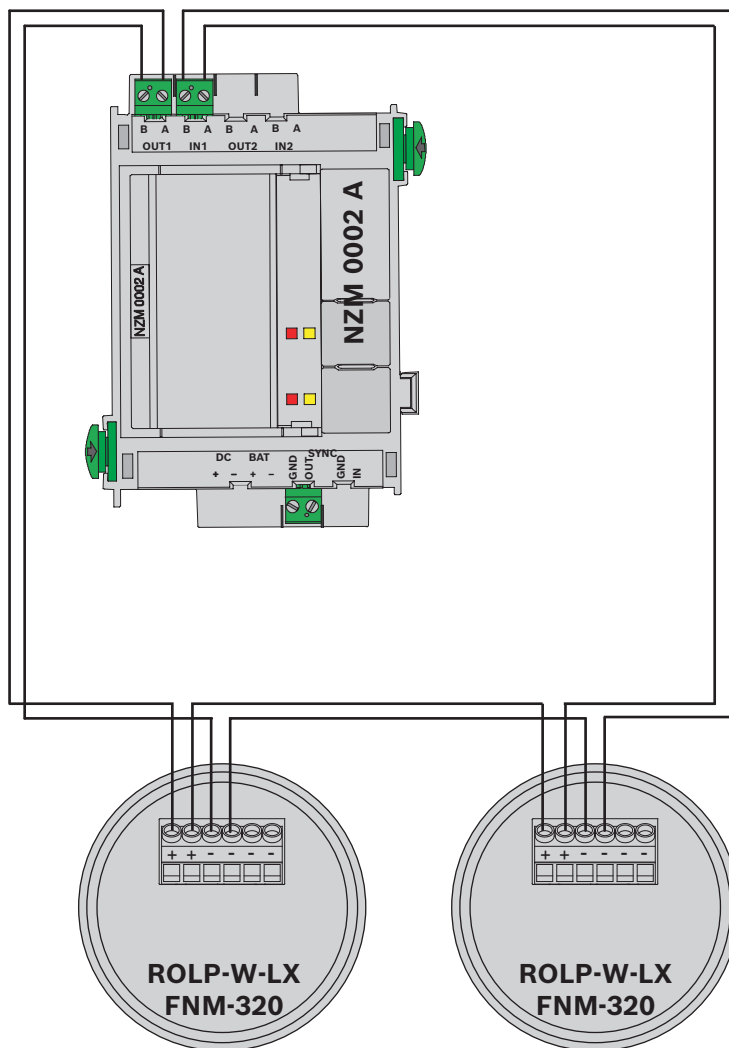
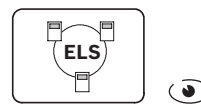


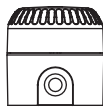


**SOL-LX
FNS-320**

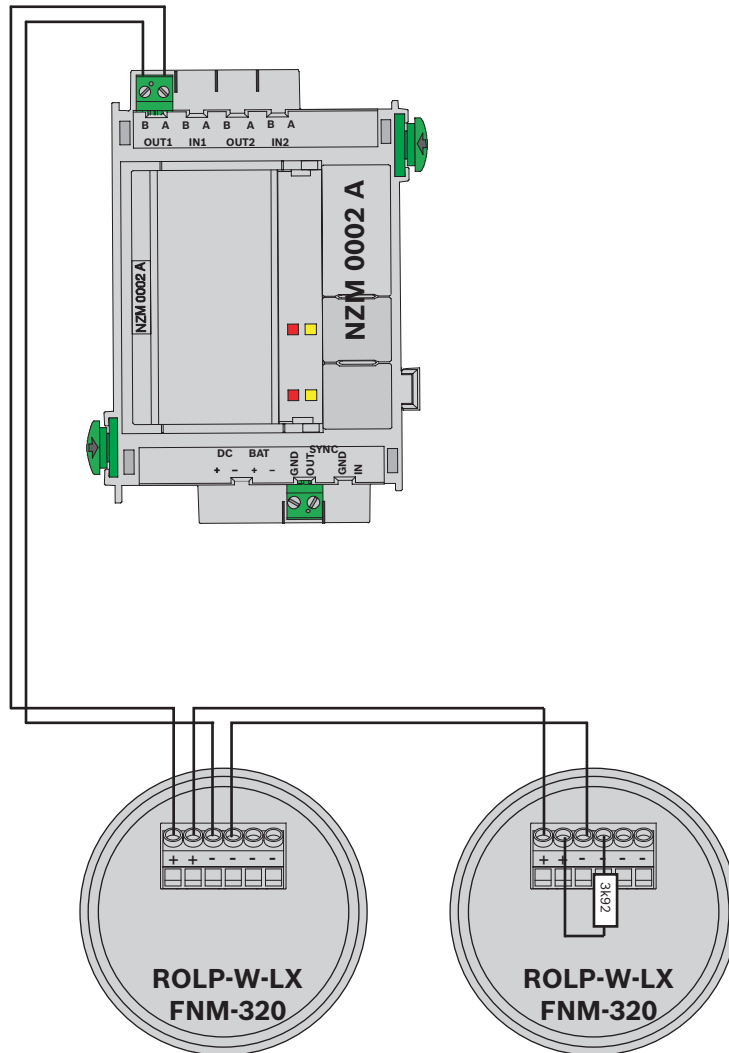
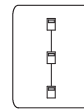






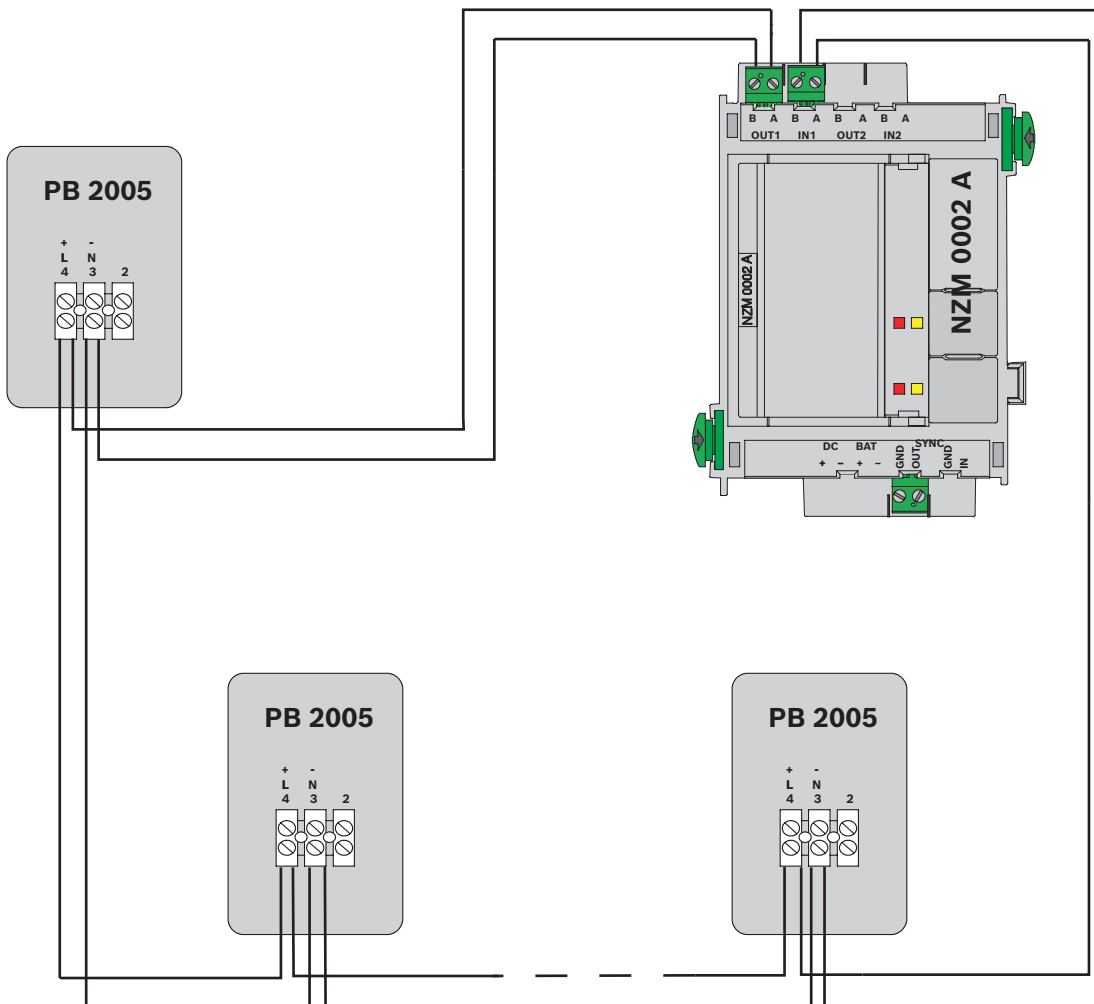
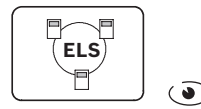


**ROLP-W-LX
FNM-320**



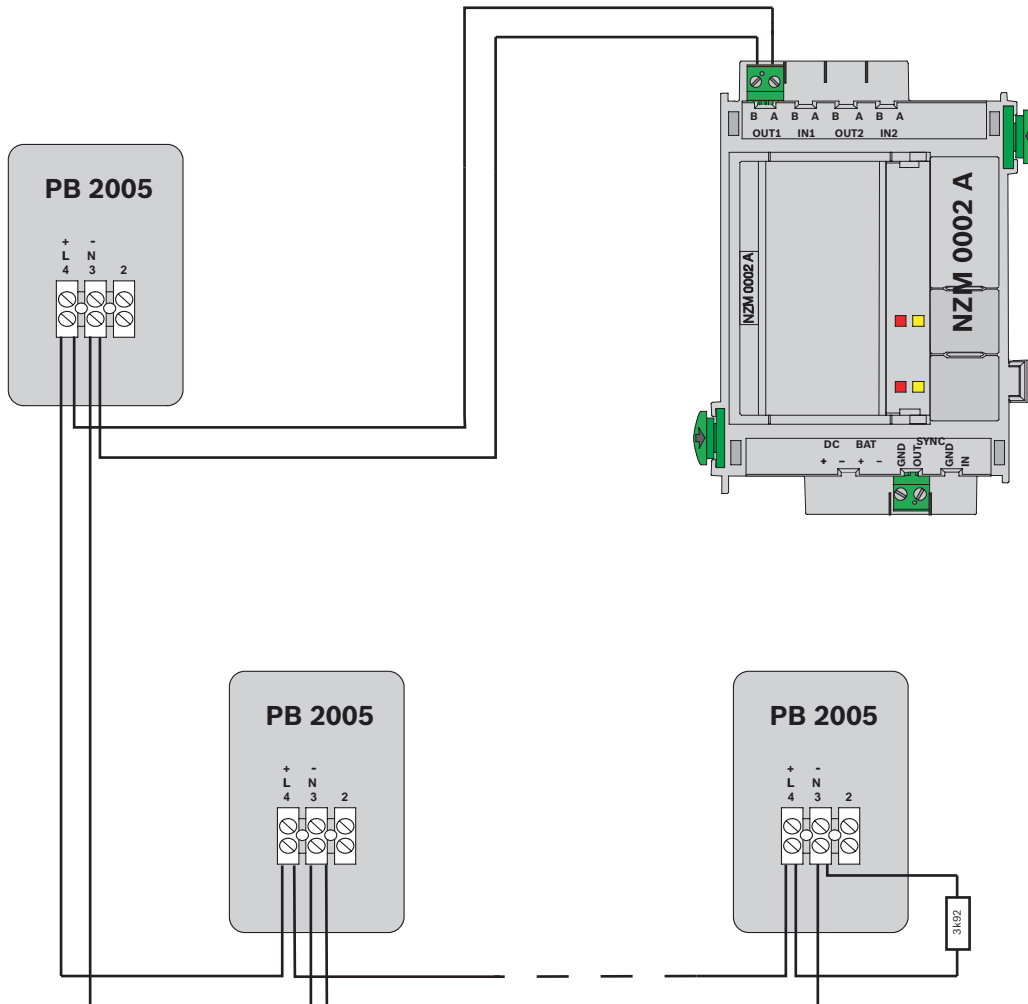
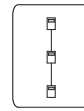


PB 2005



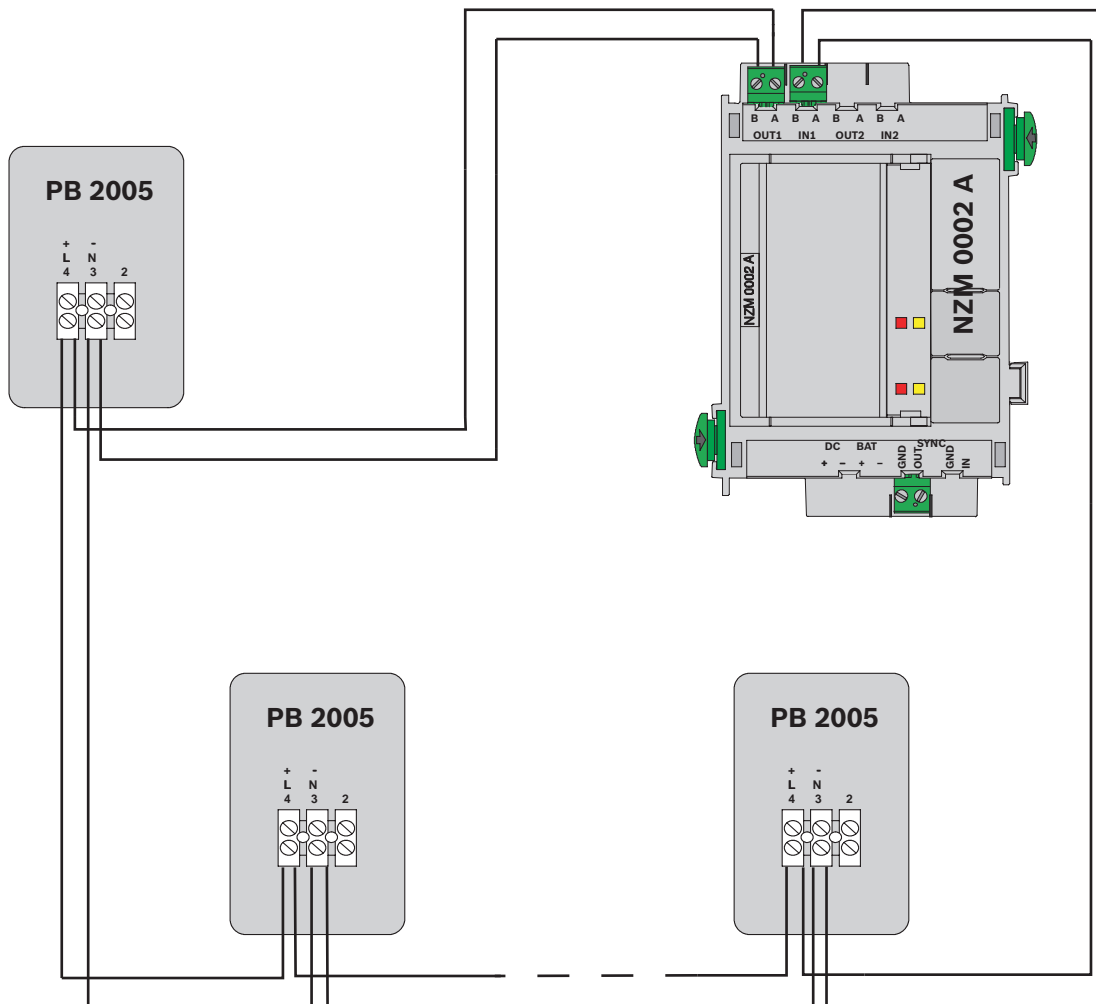
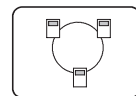


PB 2005



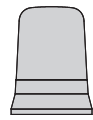


PB 2005

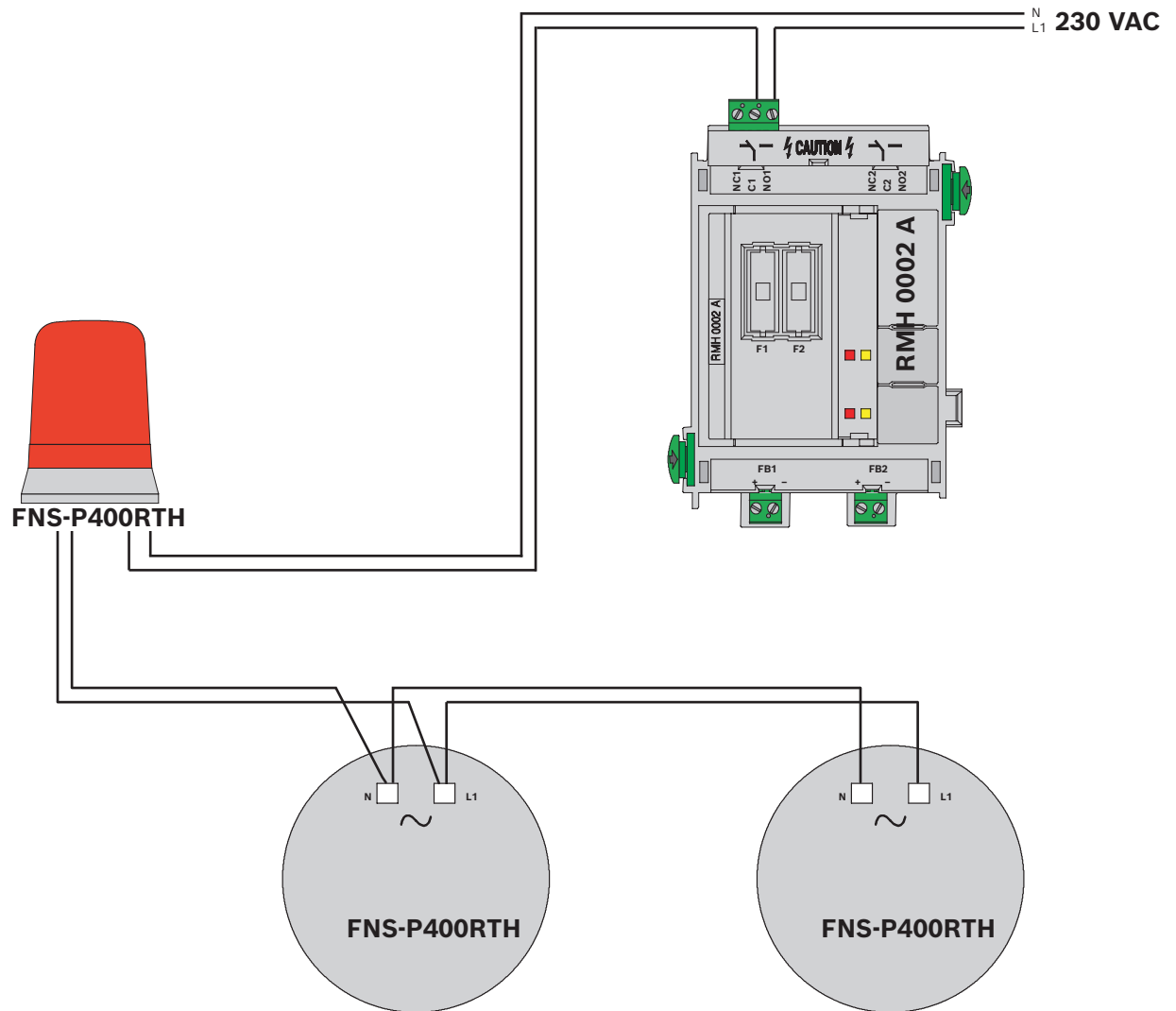
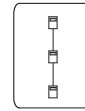


2.4.6

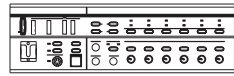
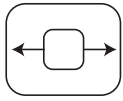
RMH 0002 A



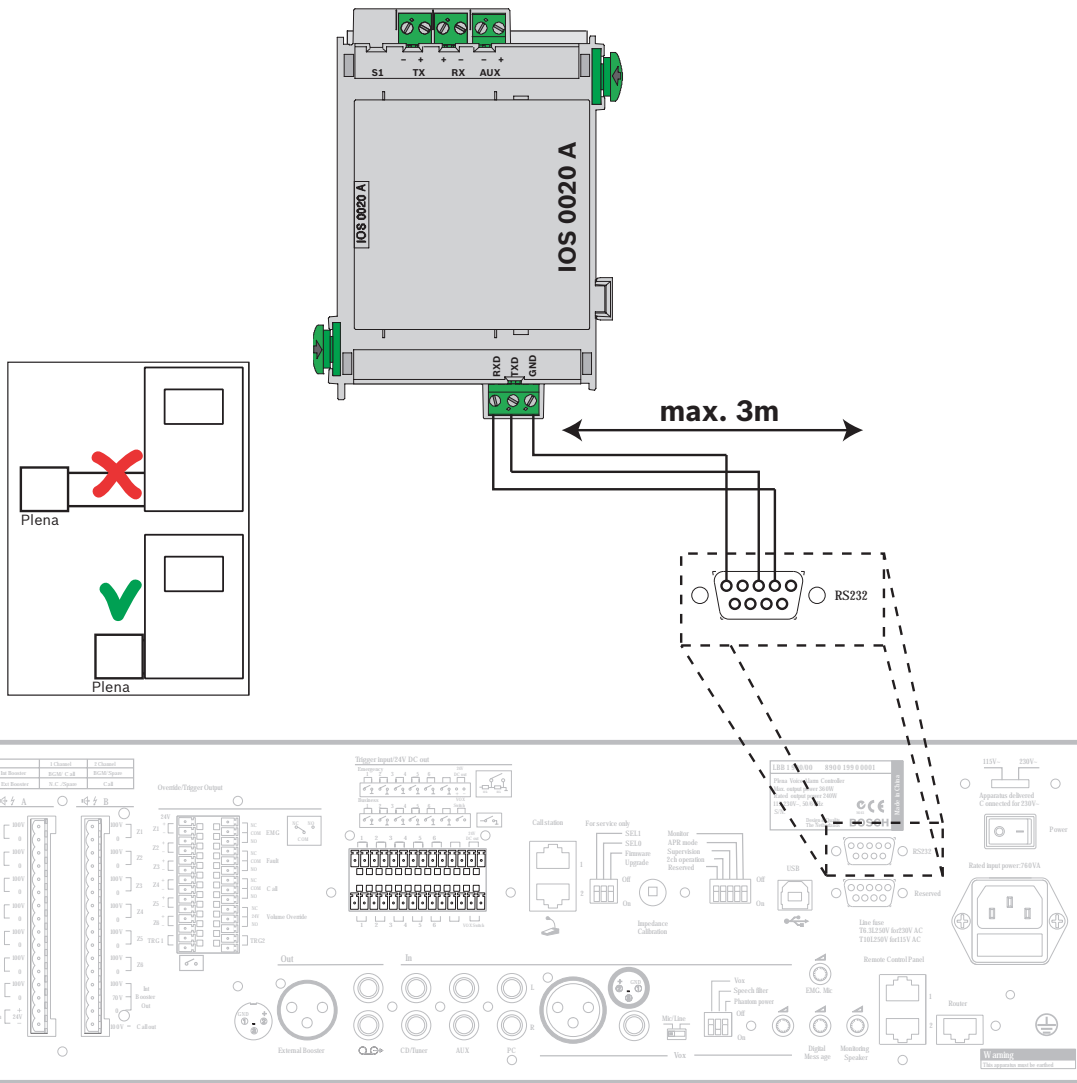
FNS-P400RTH



2.4.7 IOS 0020 A



Plena



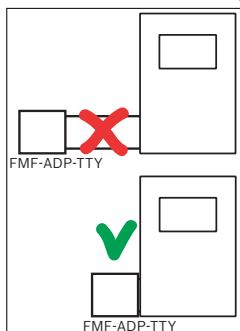
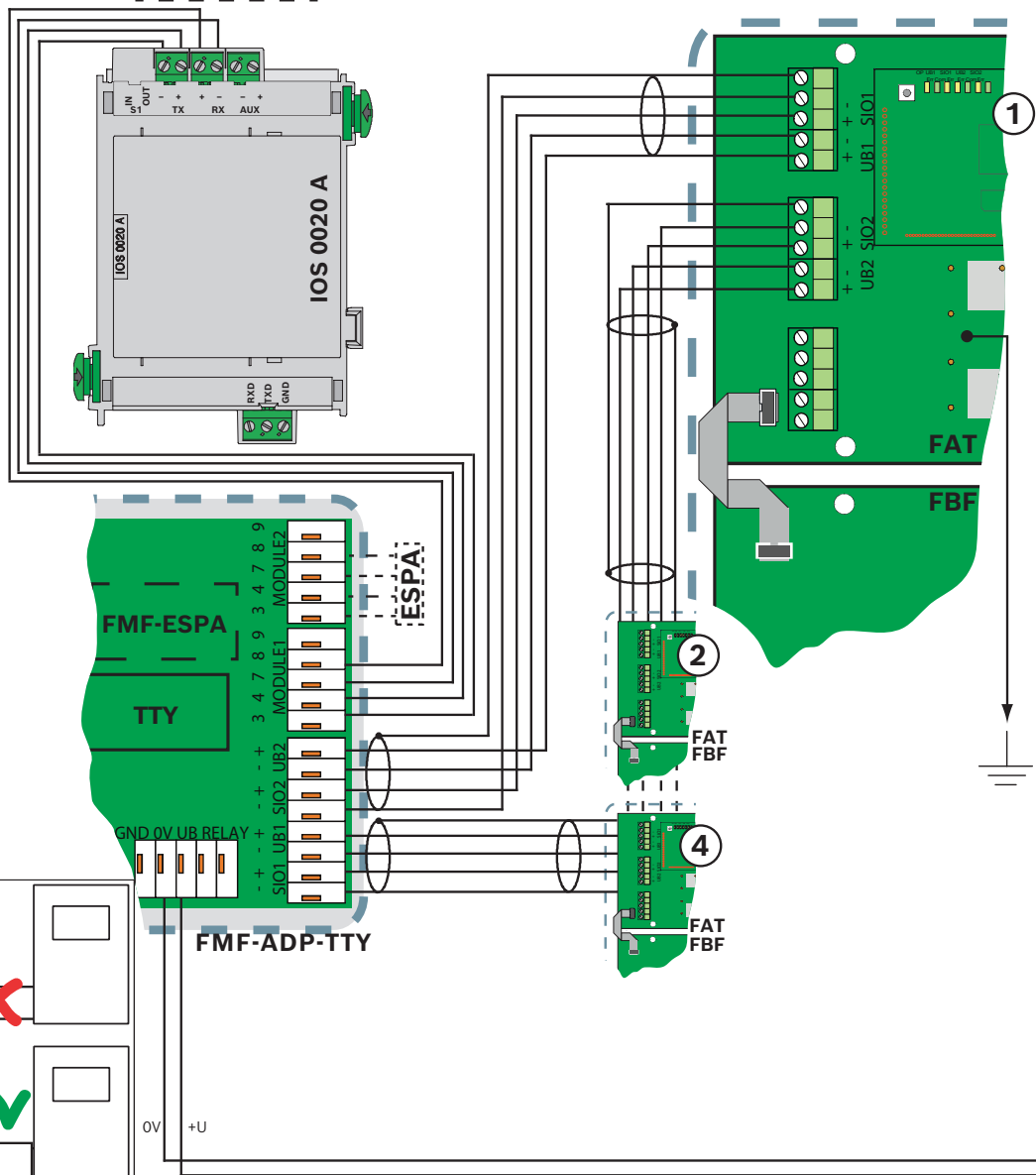


FAT4000 FBF4000 ADP4000

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

ELS

BCM-000-B

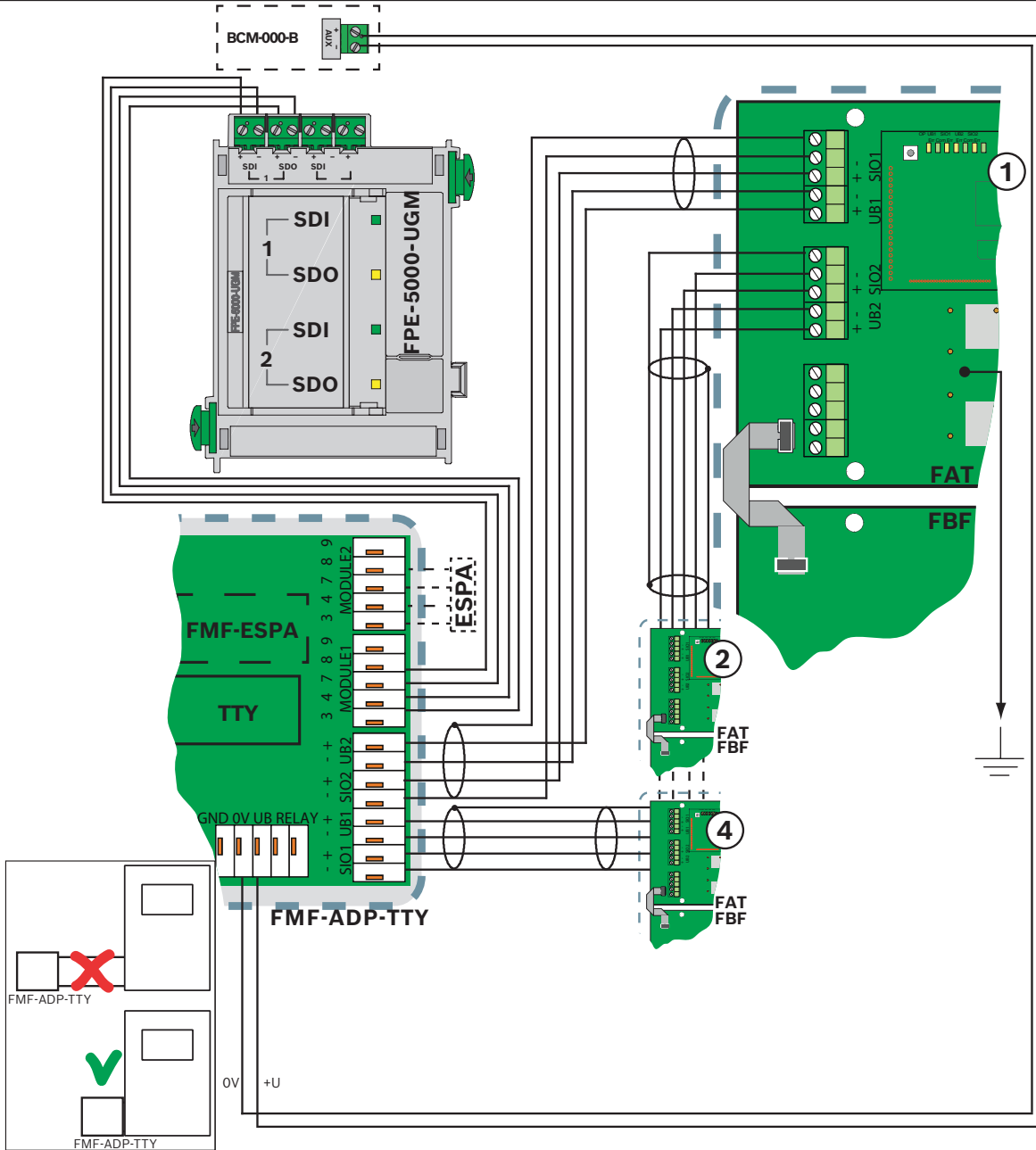


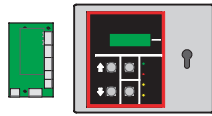
2.4.8 FPE-5000-UGM



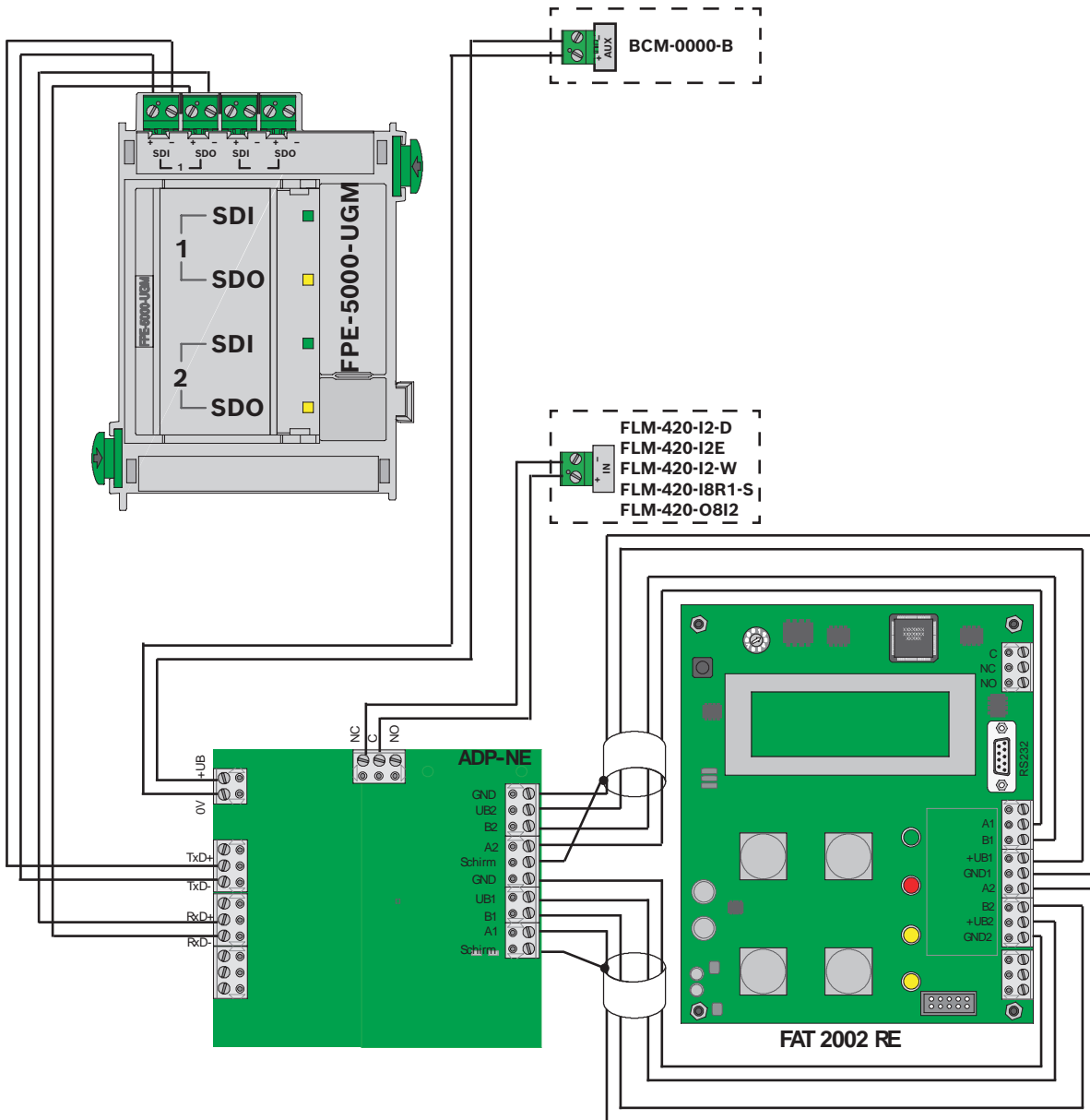
FAT4000 FBF4000 ADP4000
 FMF-FAT FMF-FBF-FAT
 FMF-FIBS-A4/-A3
 FMF-ADP

ELS





FAT2002RE
ADP-NE



2.5

Interface Modules



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FLM-420-I8R1-S, página 158

FLM-420-NAC-D/S, página 160

FLM-420-RHV, página 172

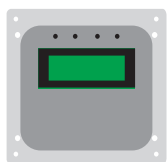
FLM-420-RLE-S, página 184

FLM-420-RLV1-E, página 185

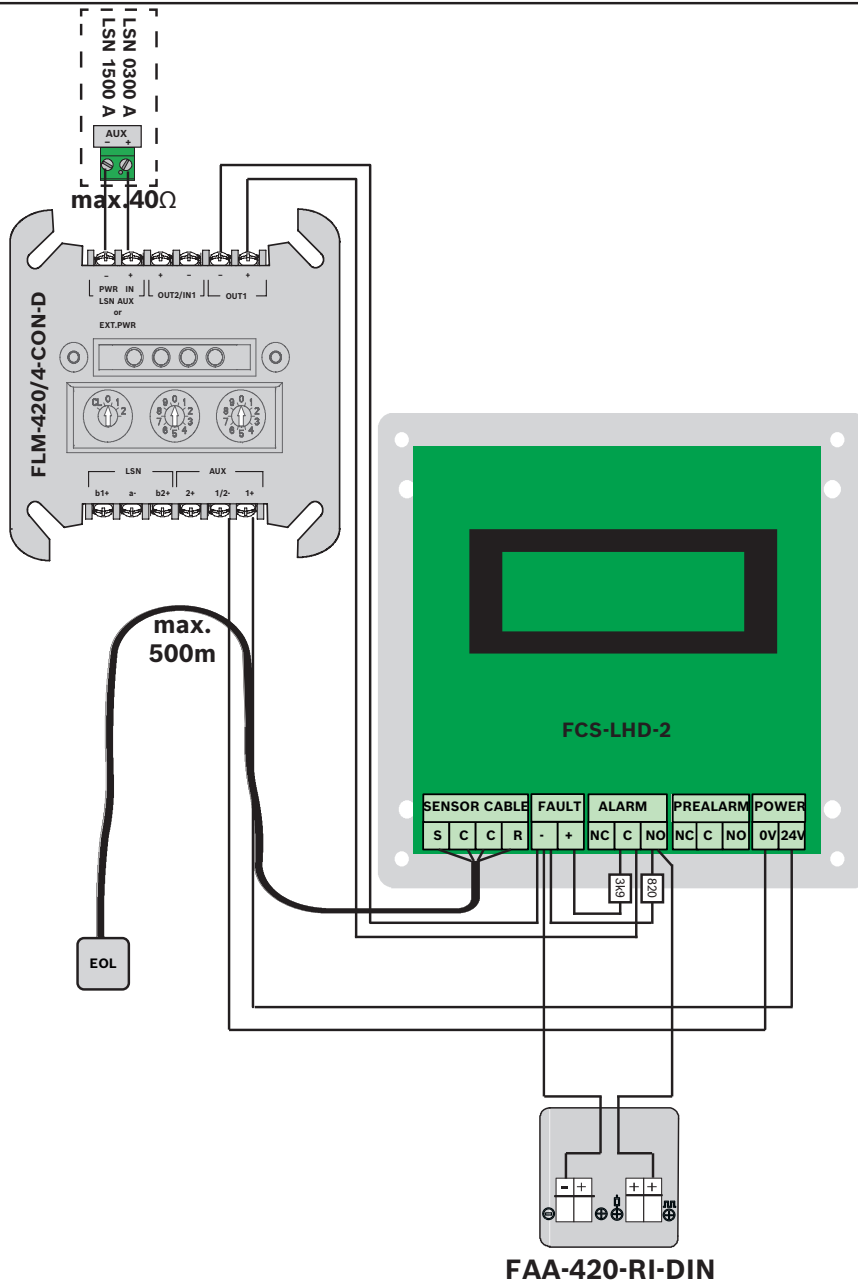
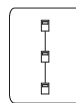
FLM-420-RLV8-S, página 186

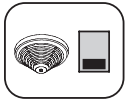
FMF-ADP-FBF/FMF-ADP-TTY, página 187

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

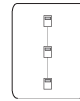


ALARMLINE II



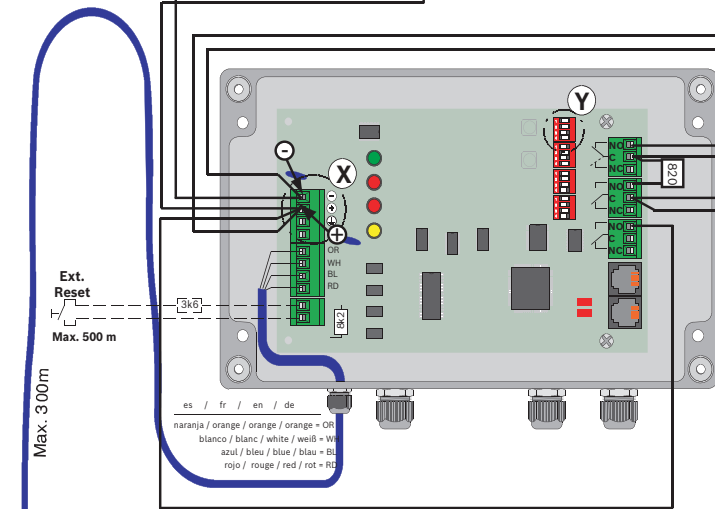
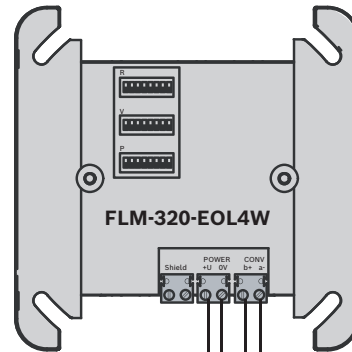
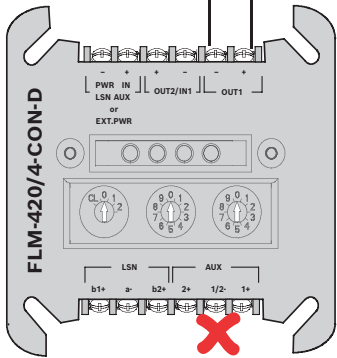


FCS-LWM-1



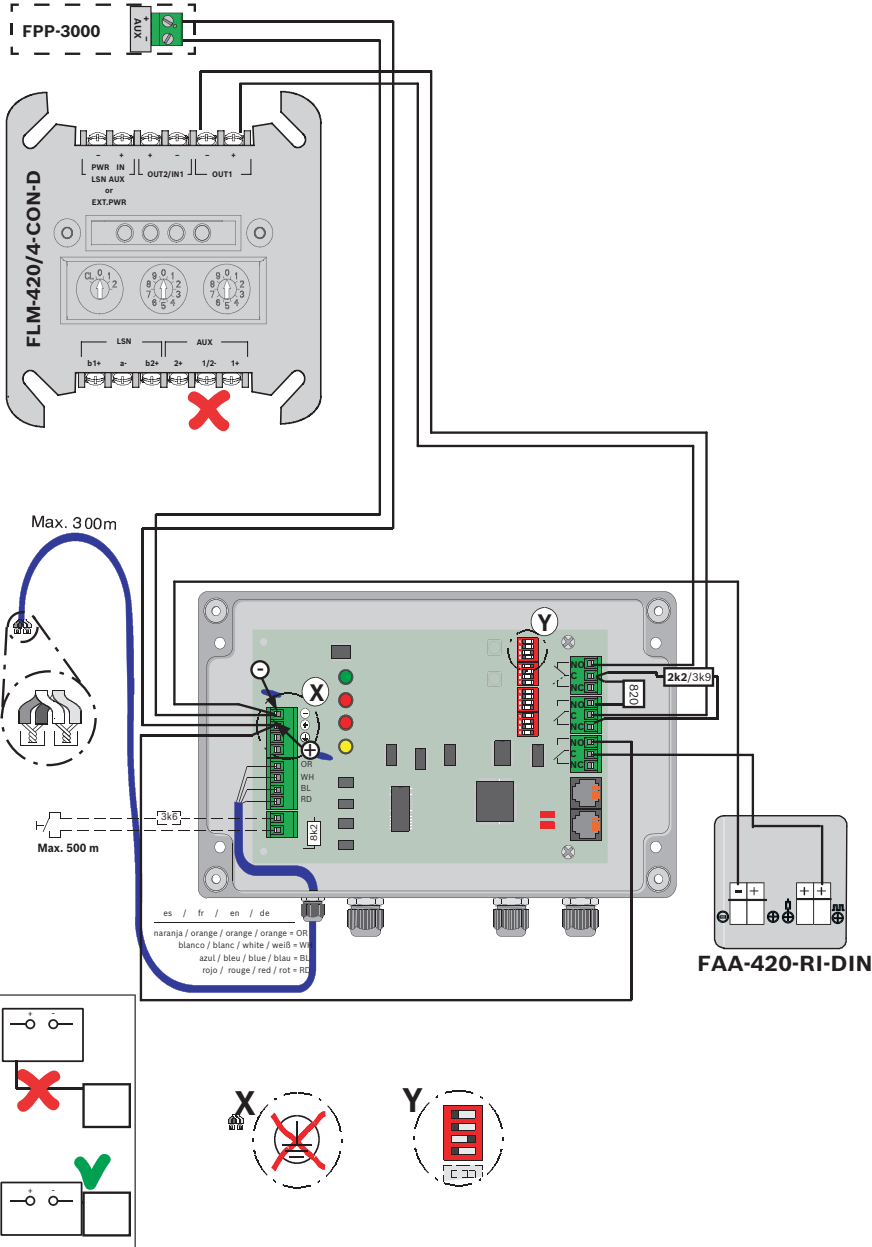
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



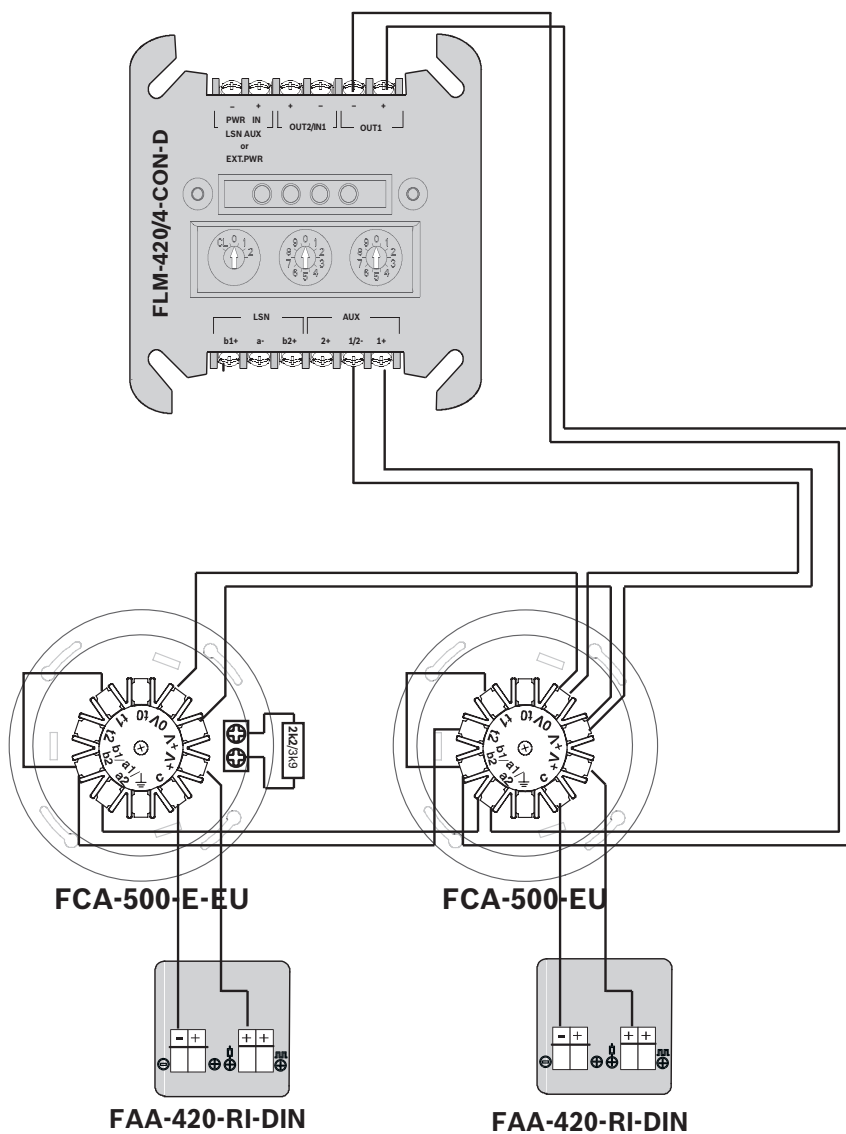


FCS-LWM-1



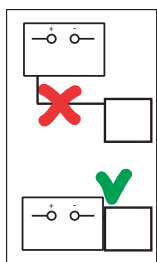
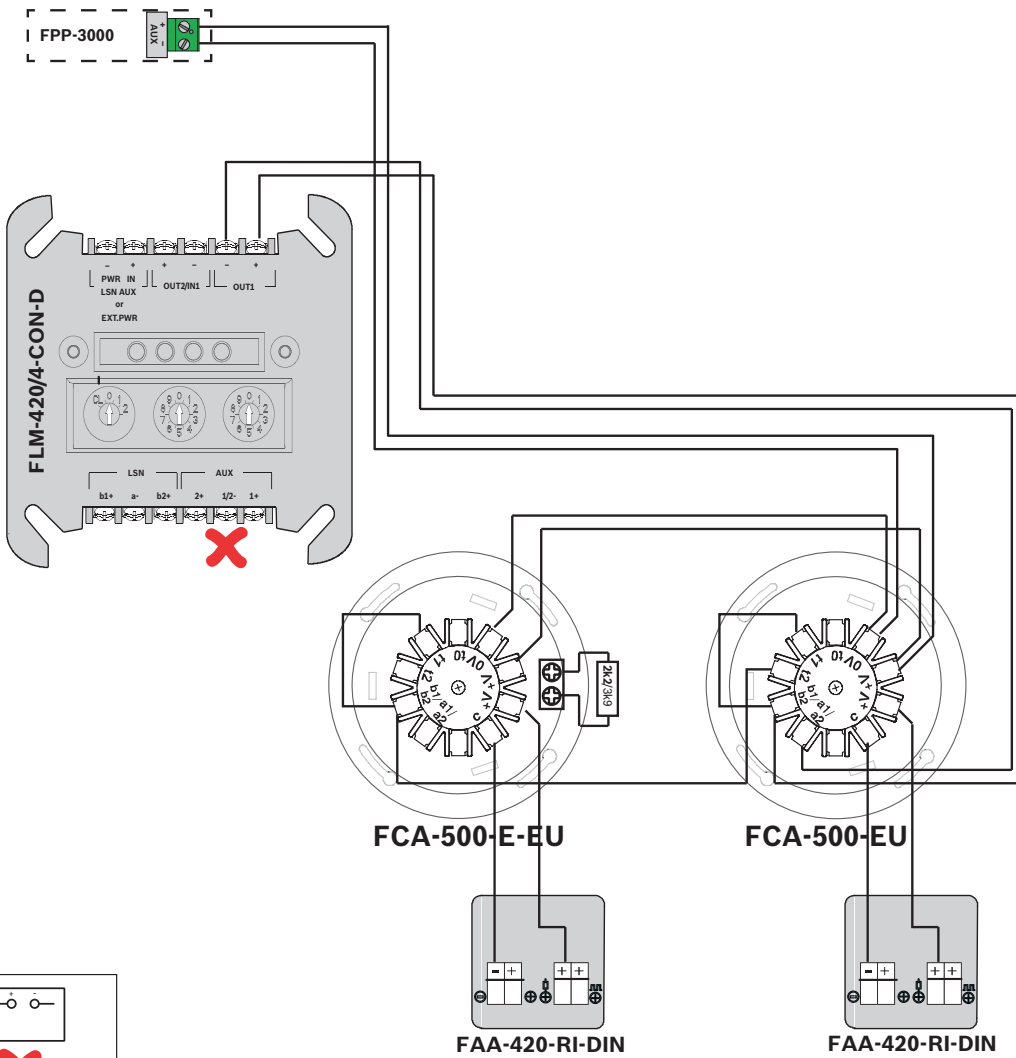


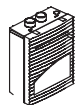
FCP-500





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

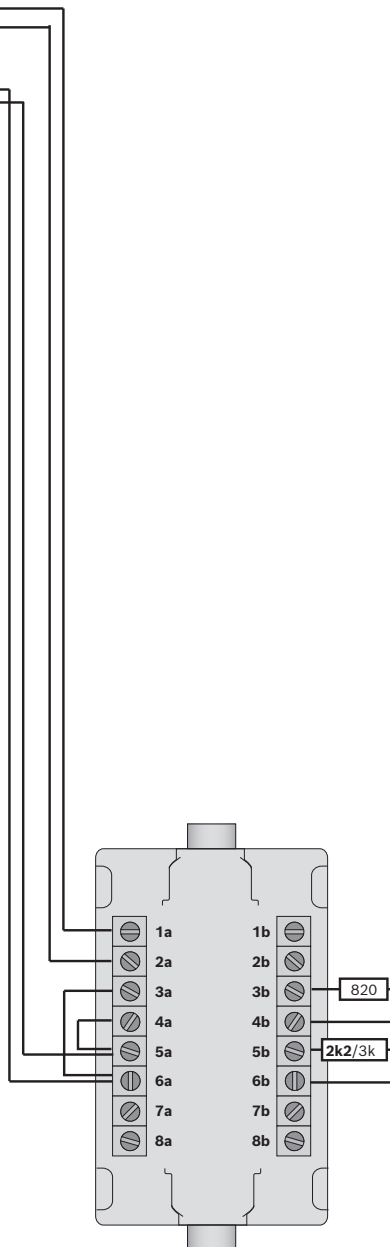
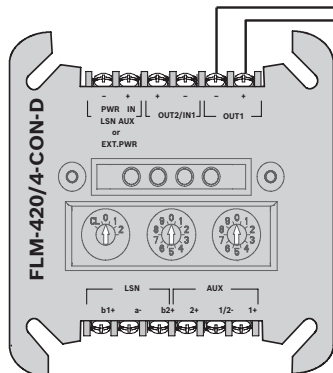


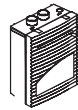


FCS-320-TM Series

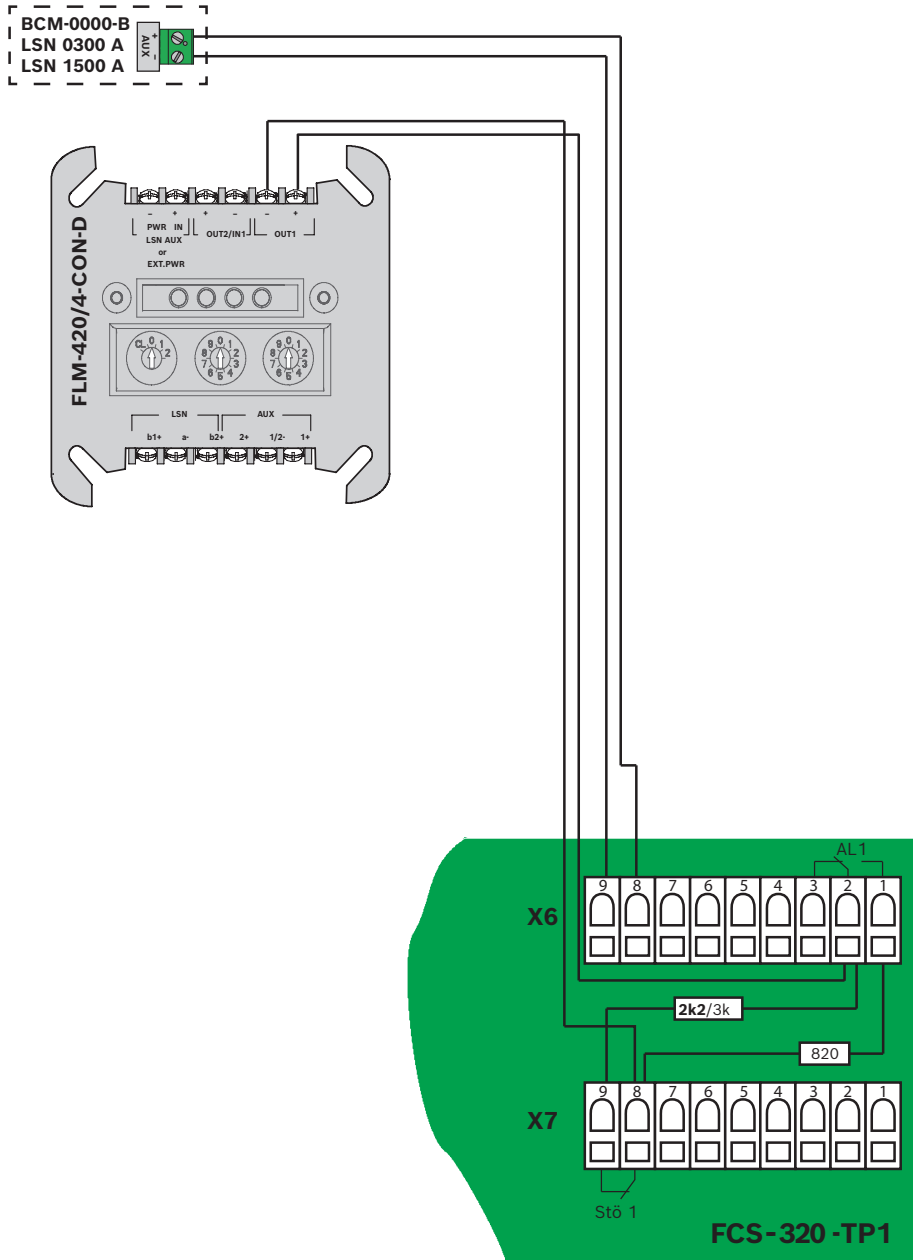
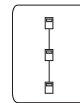


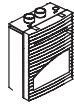
BCM-0000-B
LSN 0300 A
LSN 1500 A



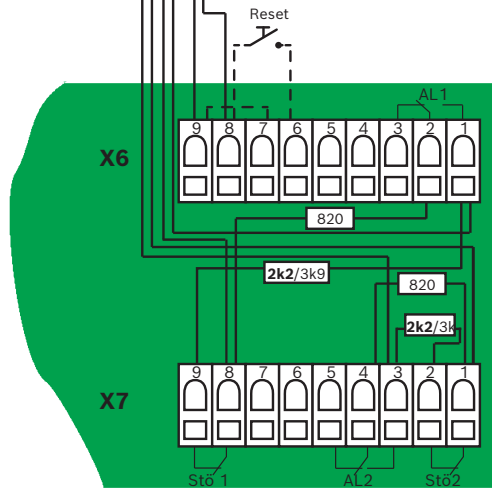
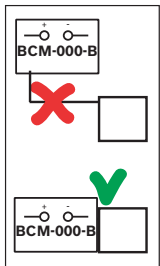
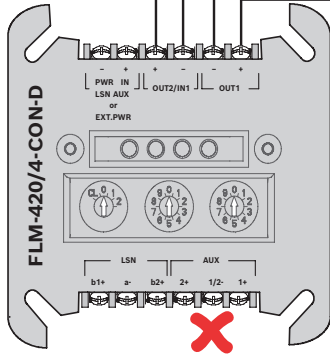
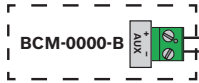


FCS-320-TP Series

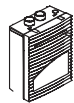




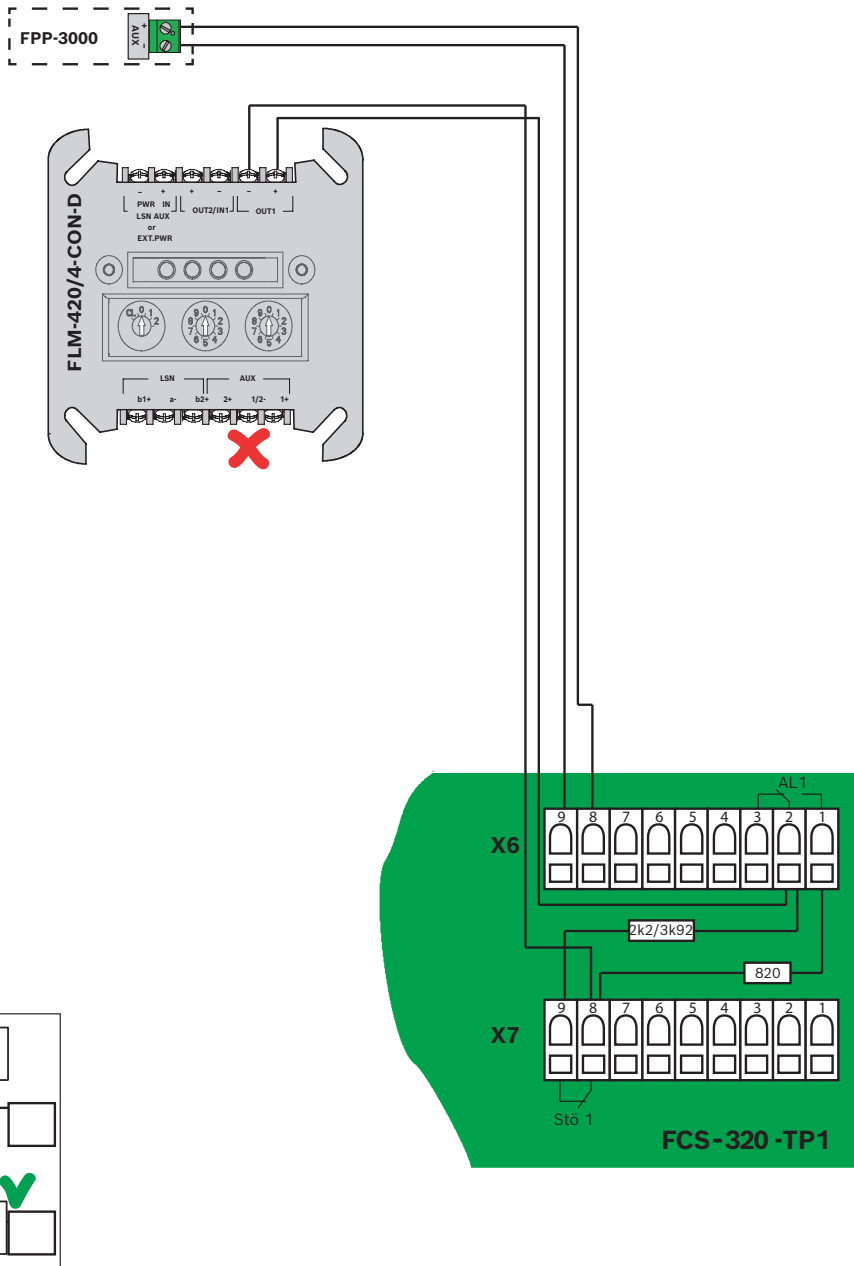
FCS-320-TP Series

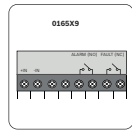


FCS-320-TP2

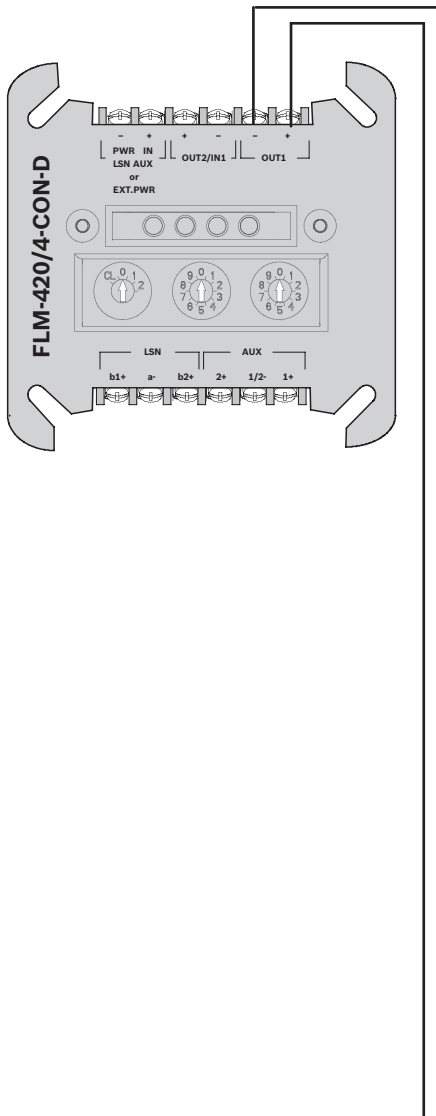
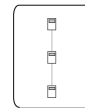


FCS-320-TP1

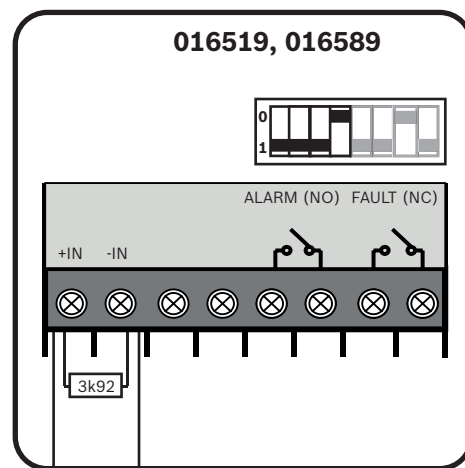


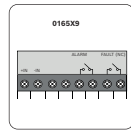


**016519, 016589
IR3 Flame Detector**

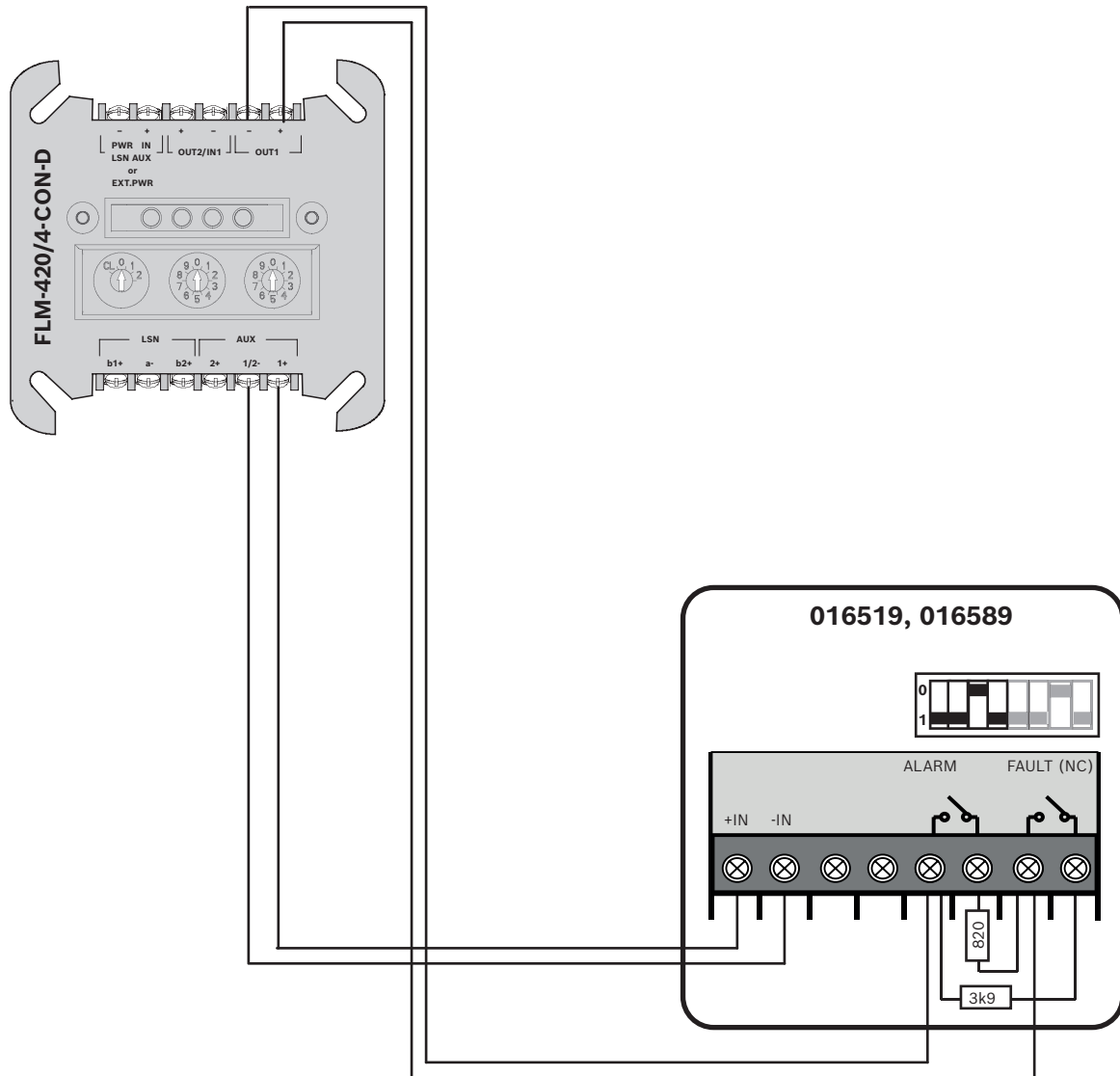
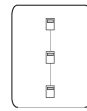


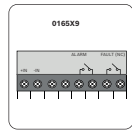
max. 1 x 0165X9



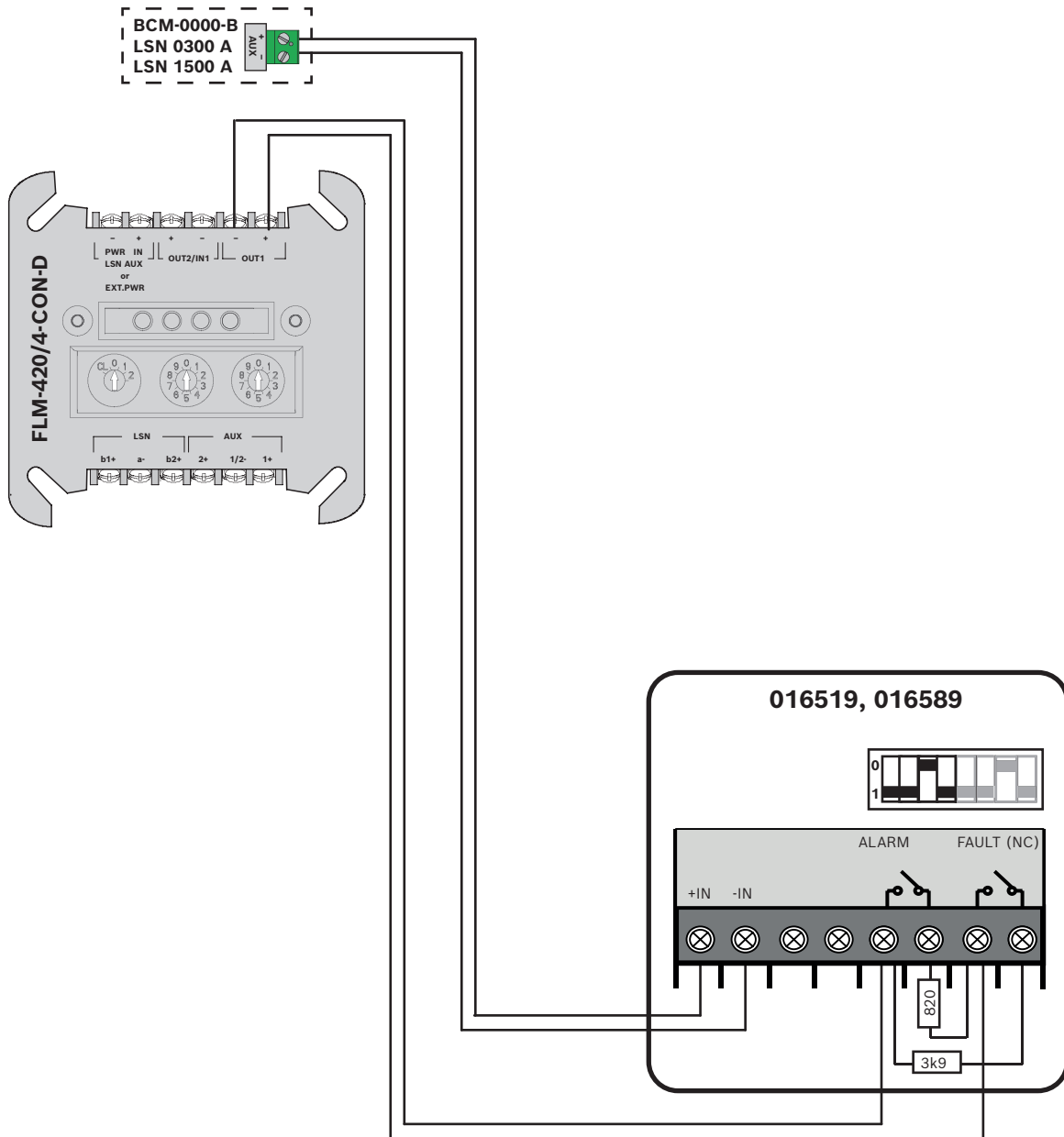
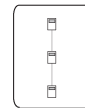


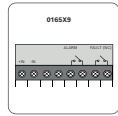
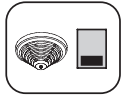
016519, 016589 IR3 Flame Detector



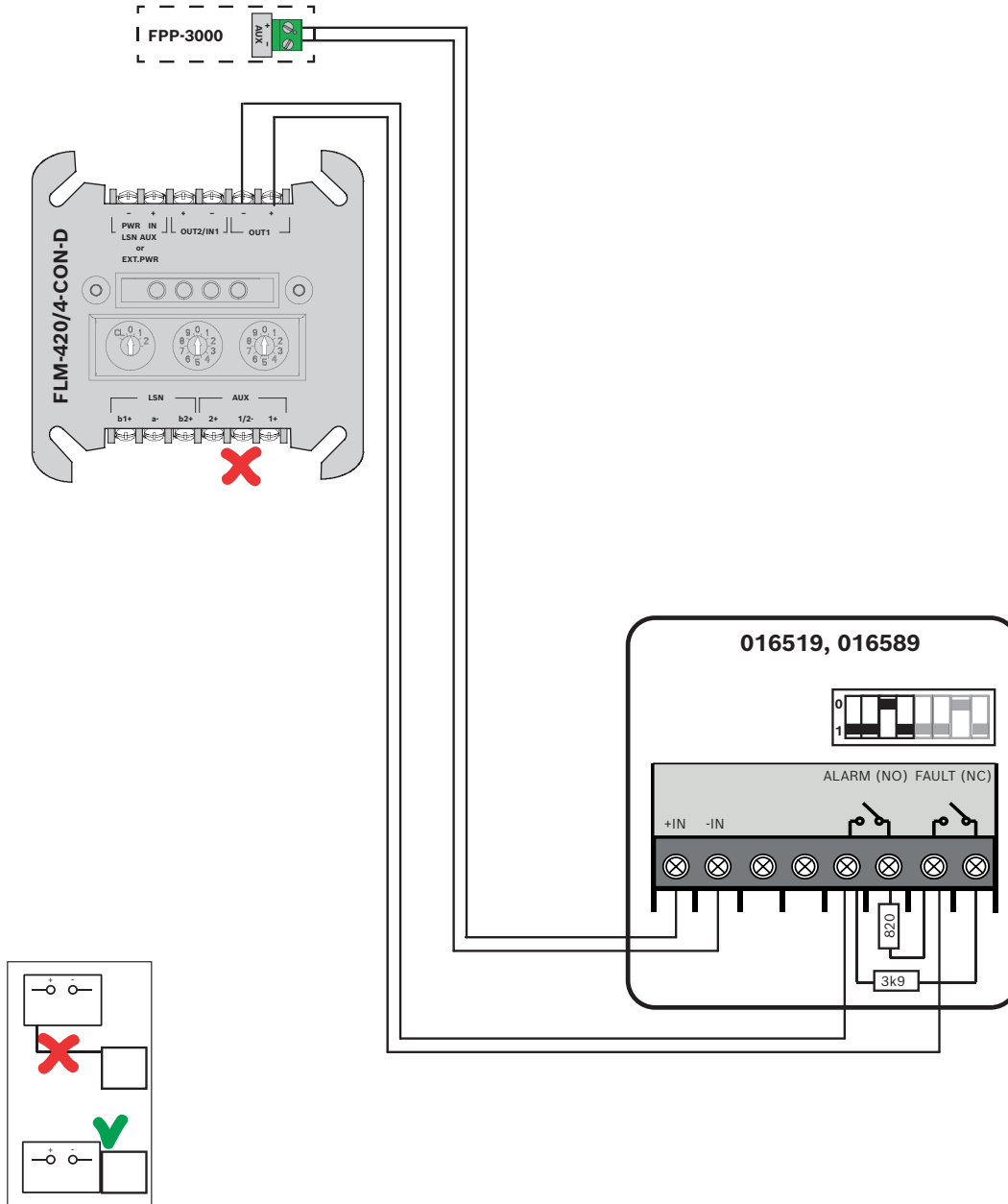


**016519, 016589
IR3 Flame Detector**



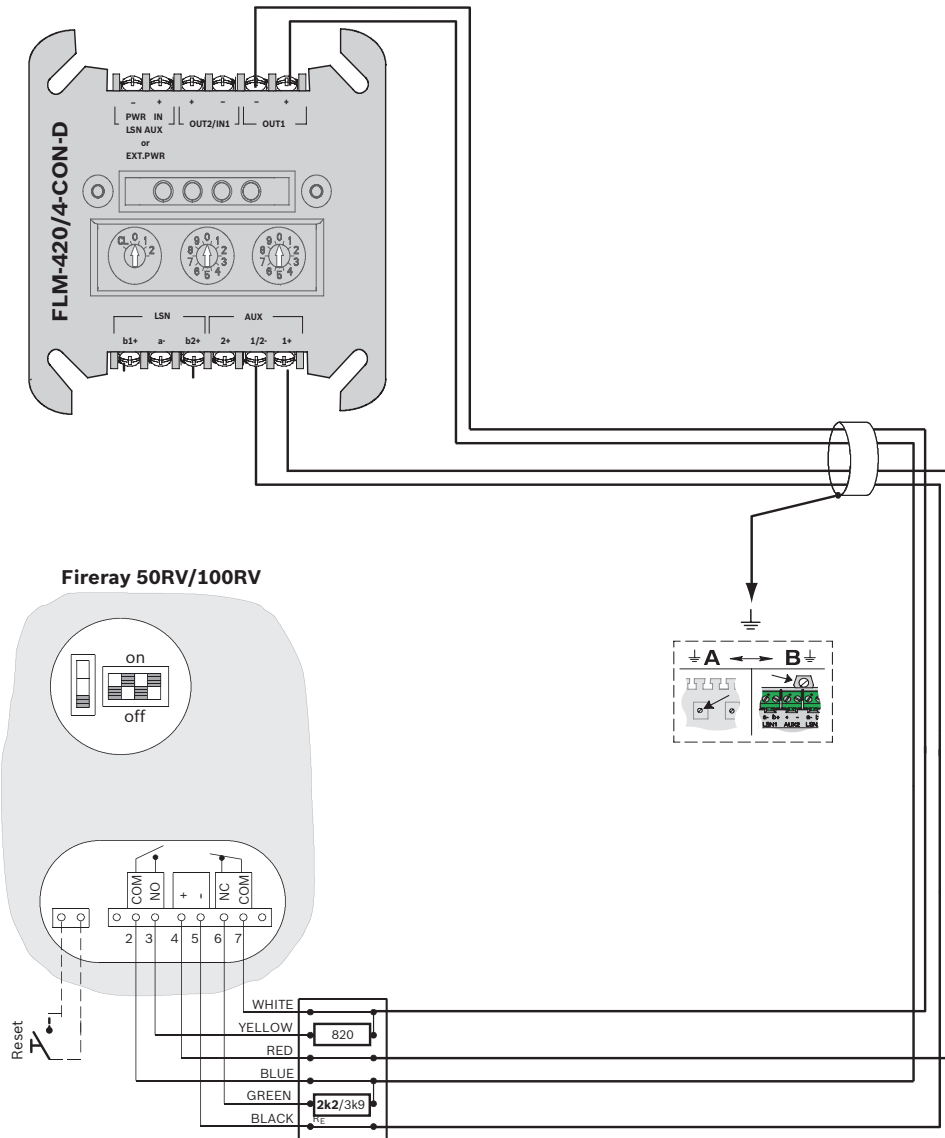


**016519, 016589
IR3 Flame Detector**





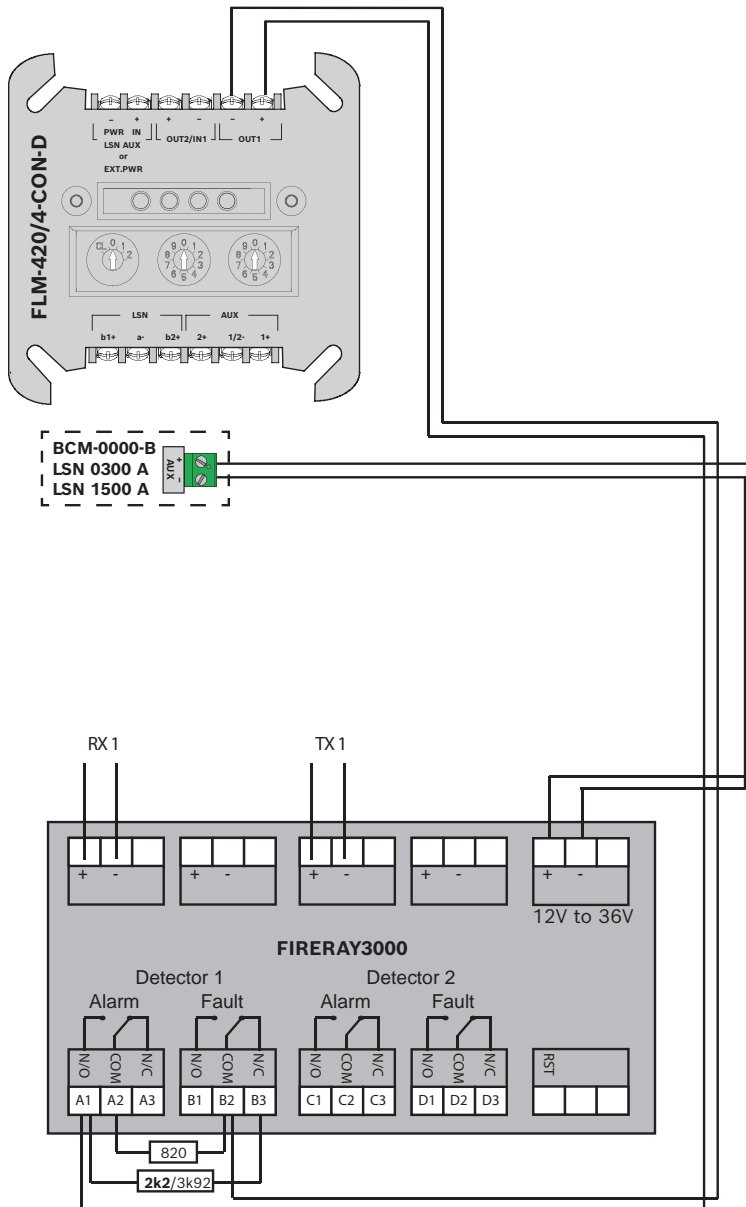
**Fireray 50RV
Fireray 100RV**

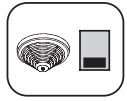




FIRERAY3000

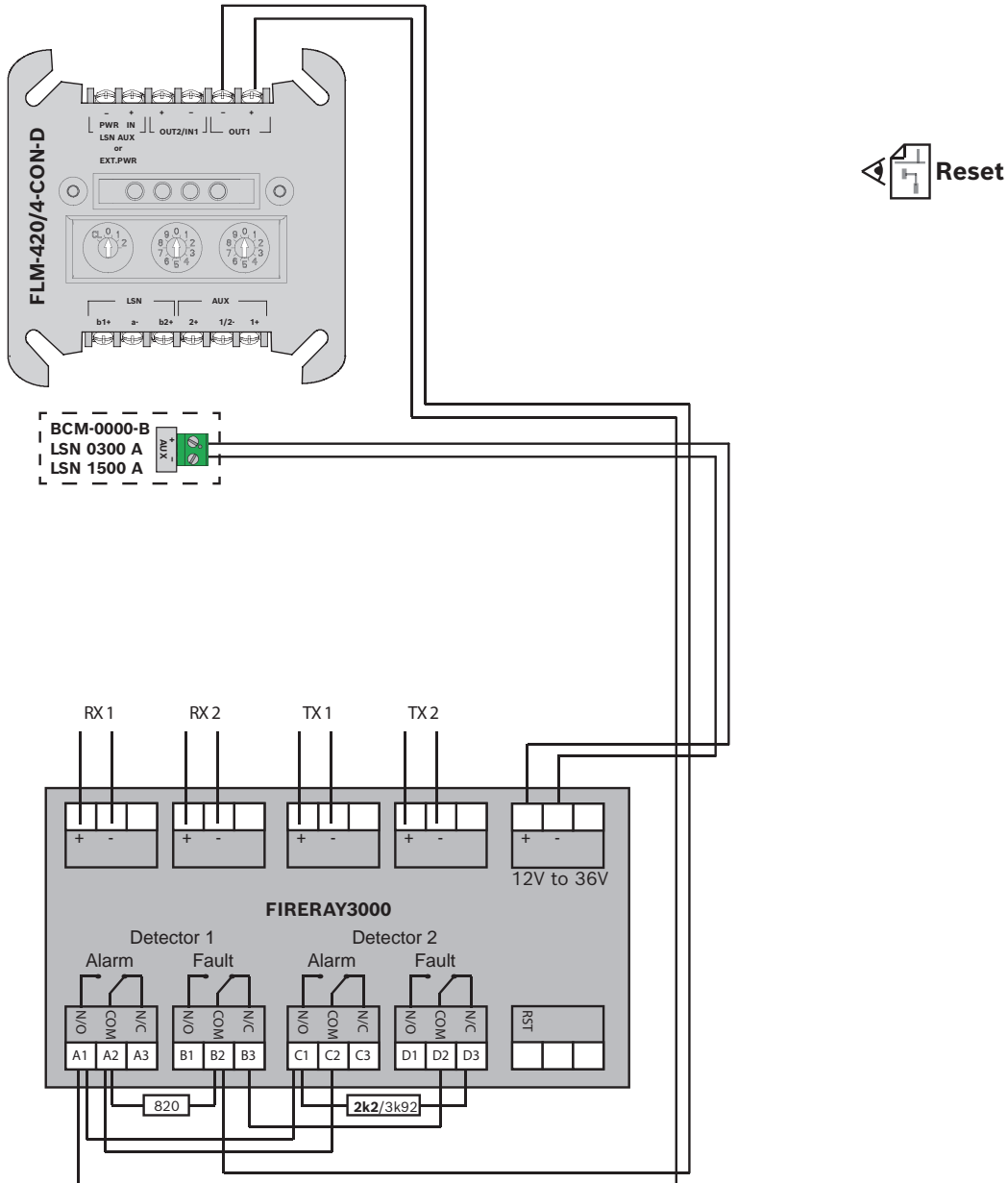
1 x





FIRERAY3000

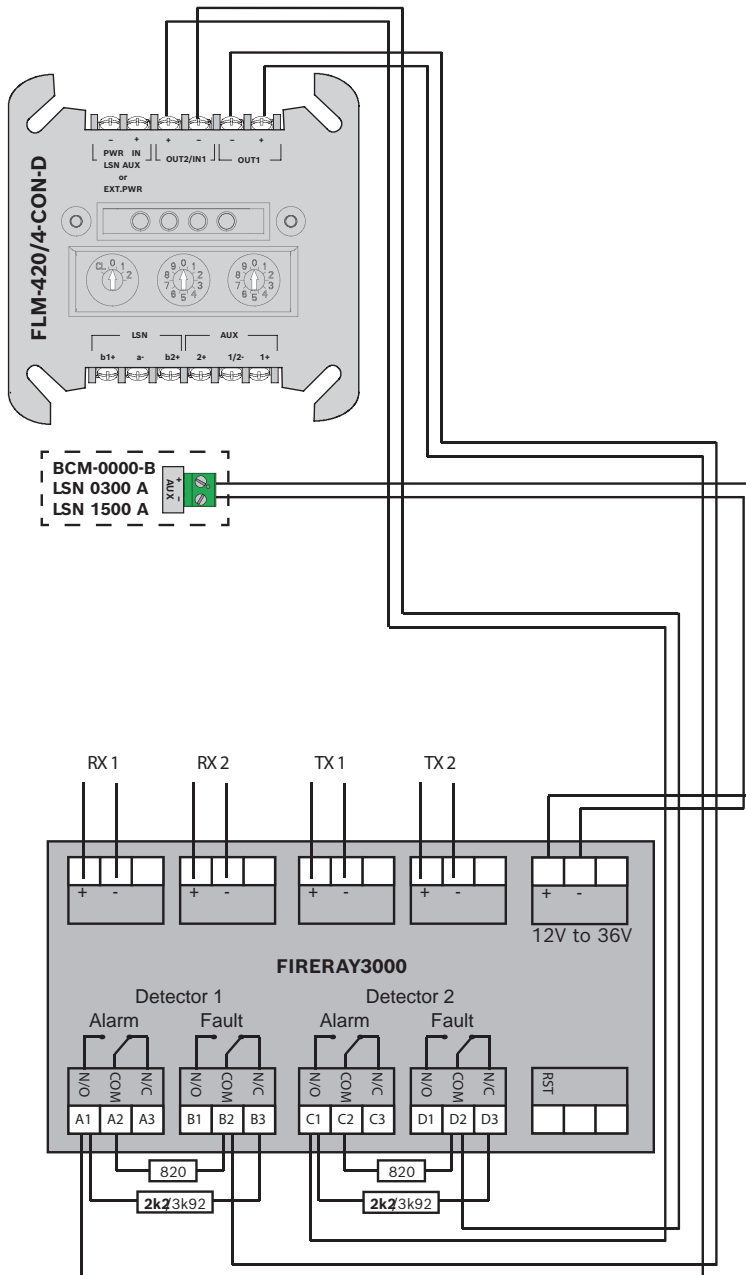
2 x **OUT1**



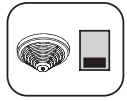


FIRERAY3000

2 x **OUT1+2**

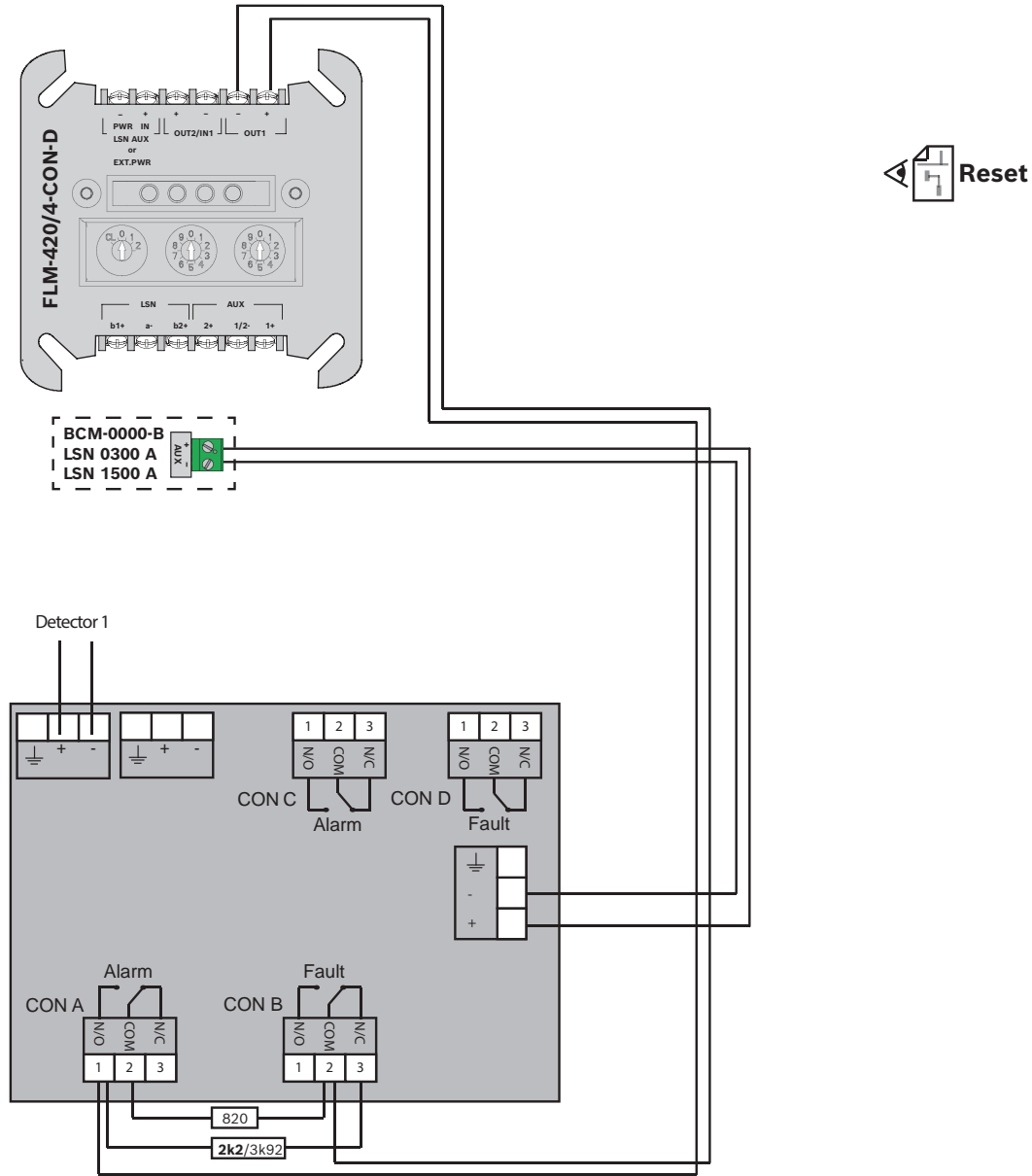


Reset action



FIRERAY5000

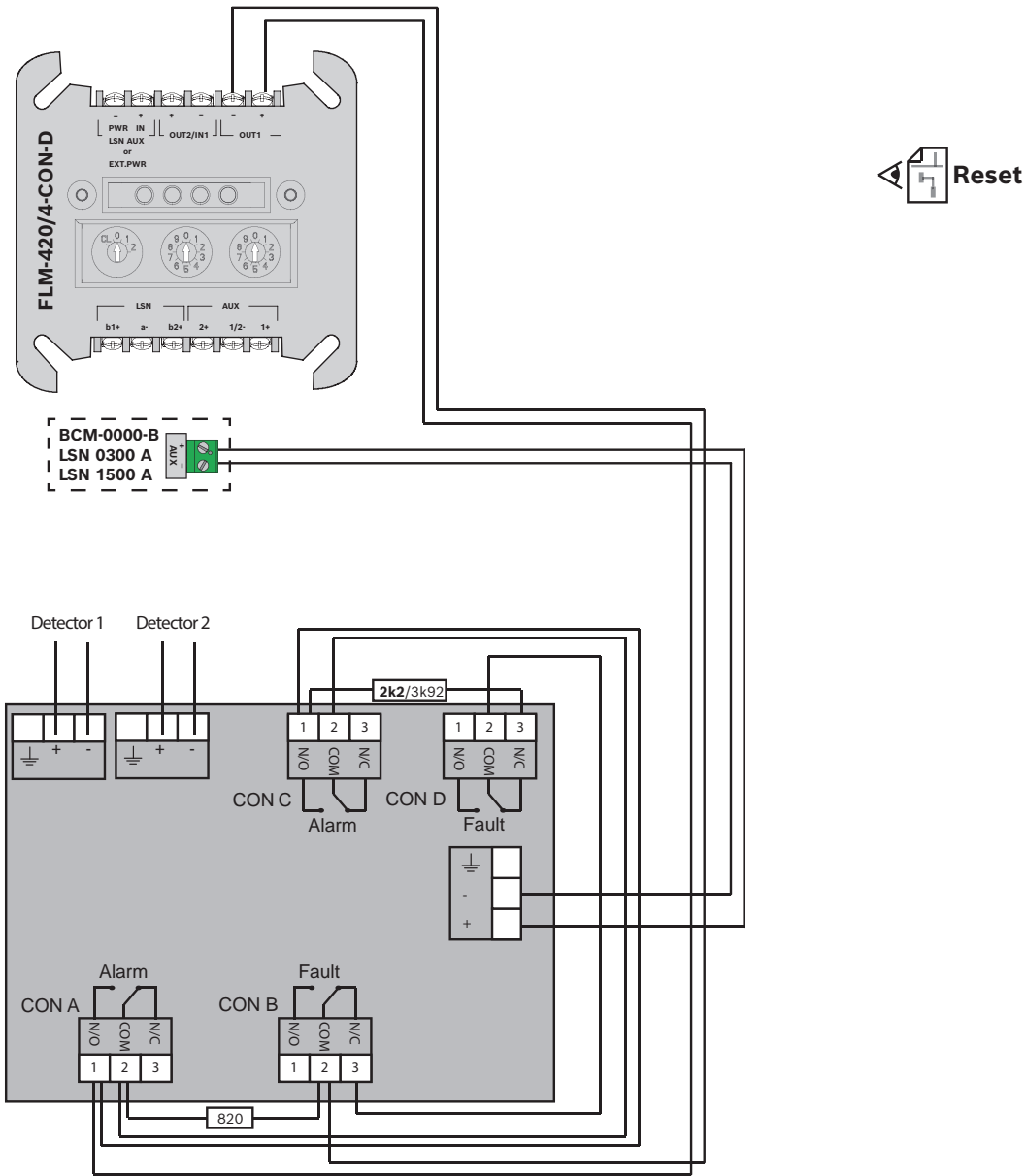
1 x

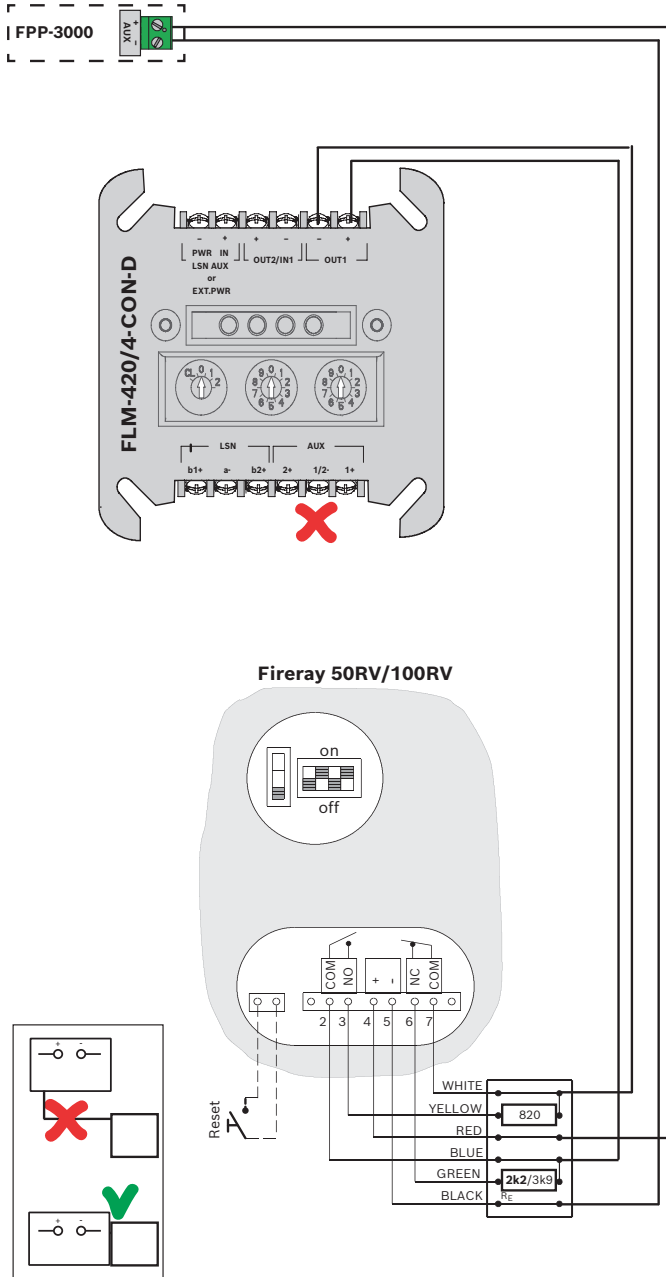




FIRERAY5000

2 x OUT1

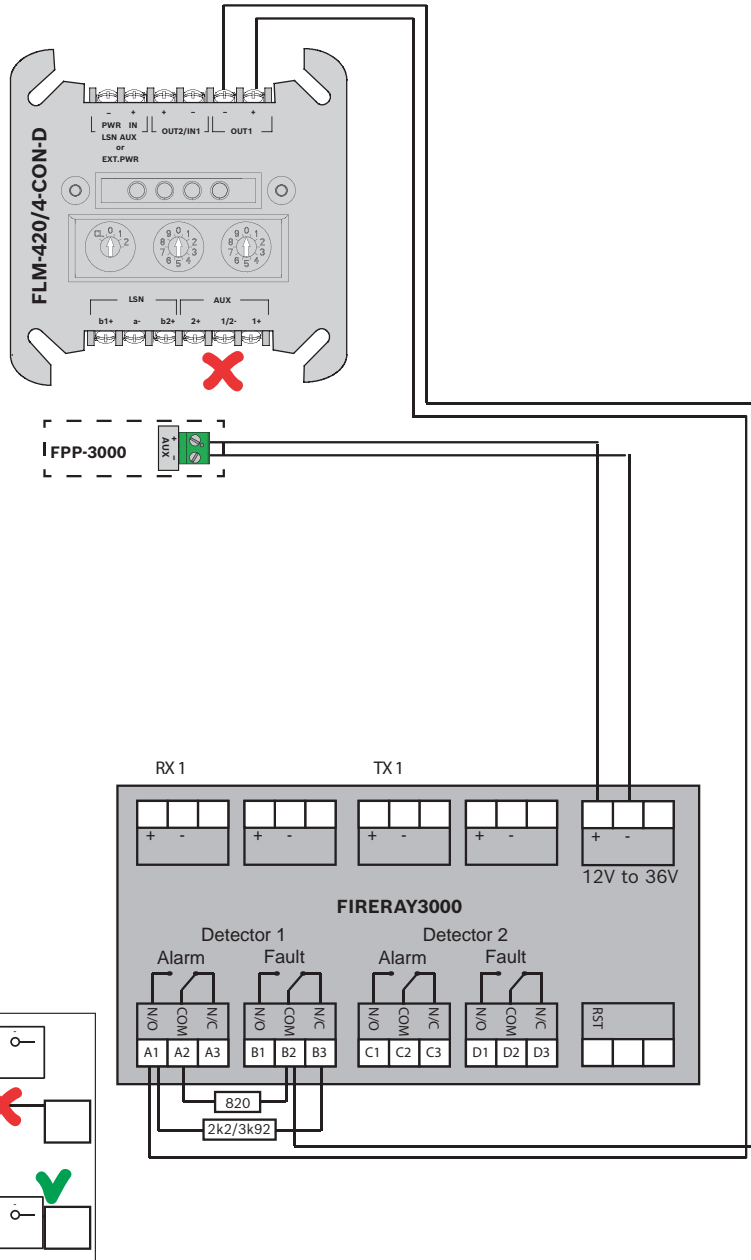




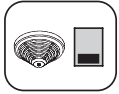


FIRERAY3000

1 x

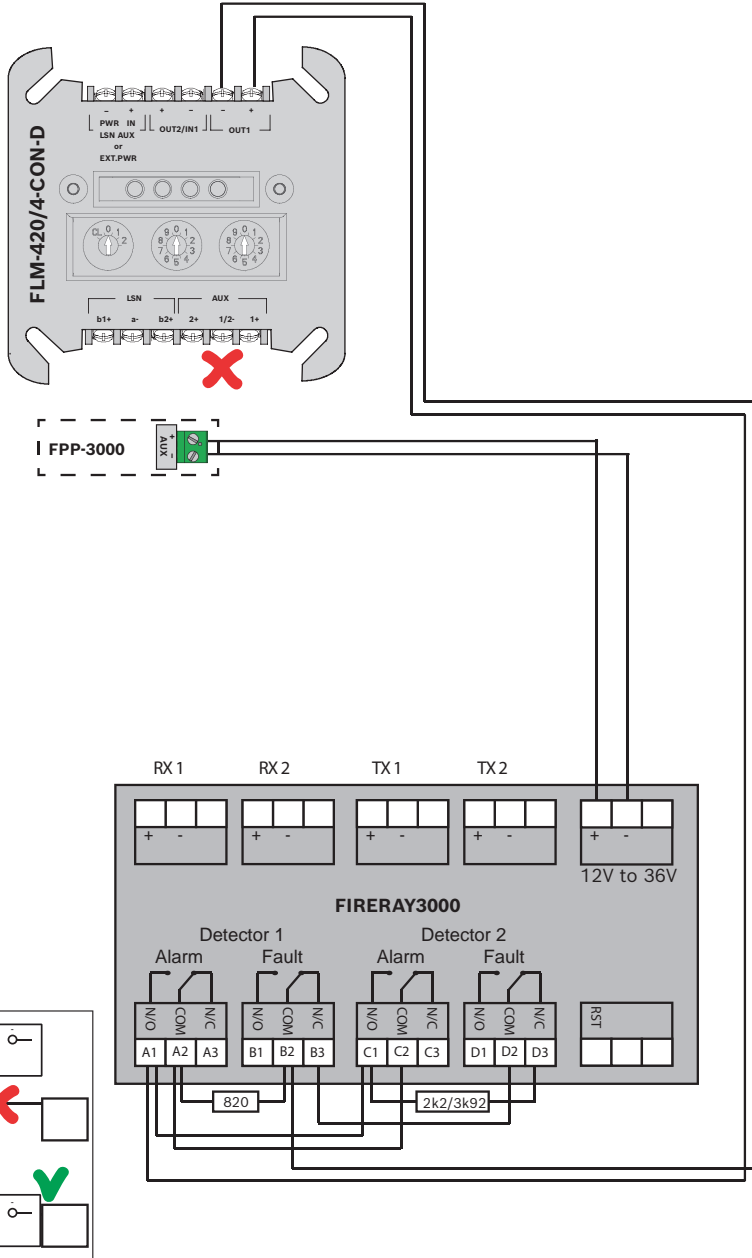


Reset action

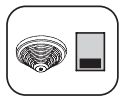


FIRERAY3000

2 x  **OUT1**

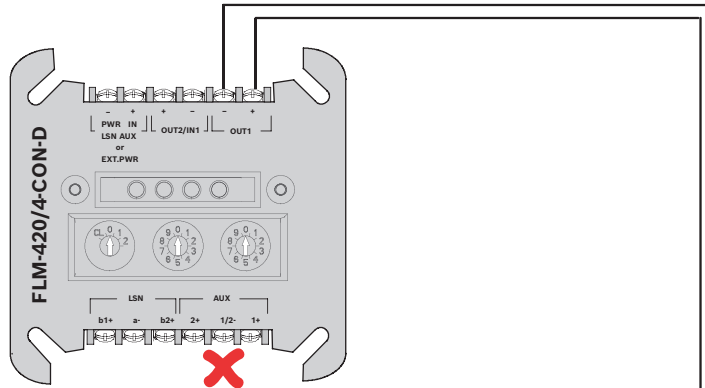


 **Reset action**

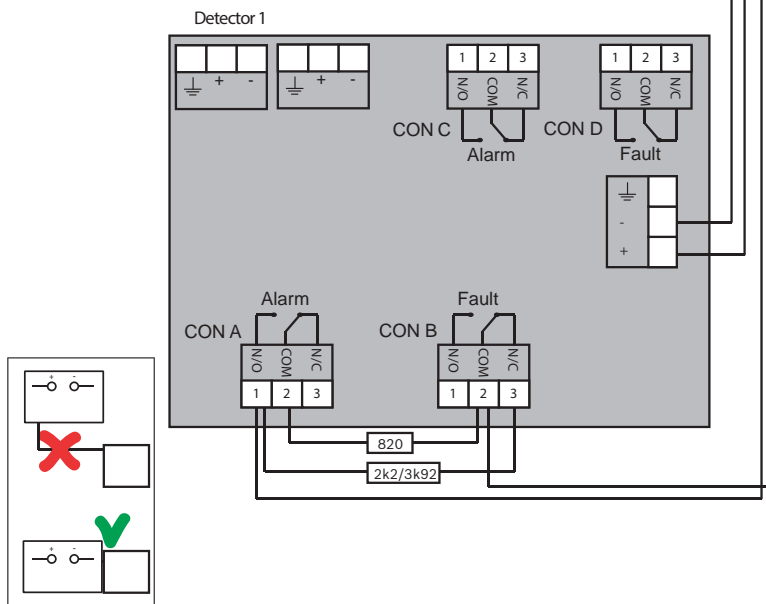


FIRERAY5000

1 x



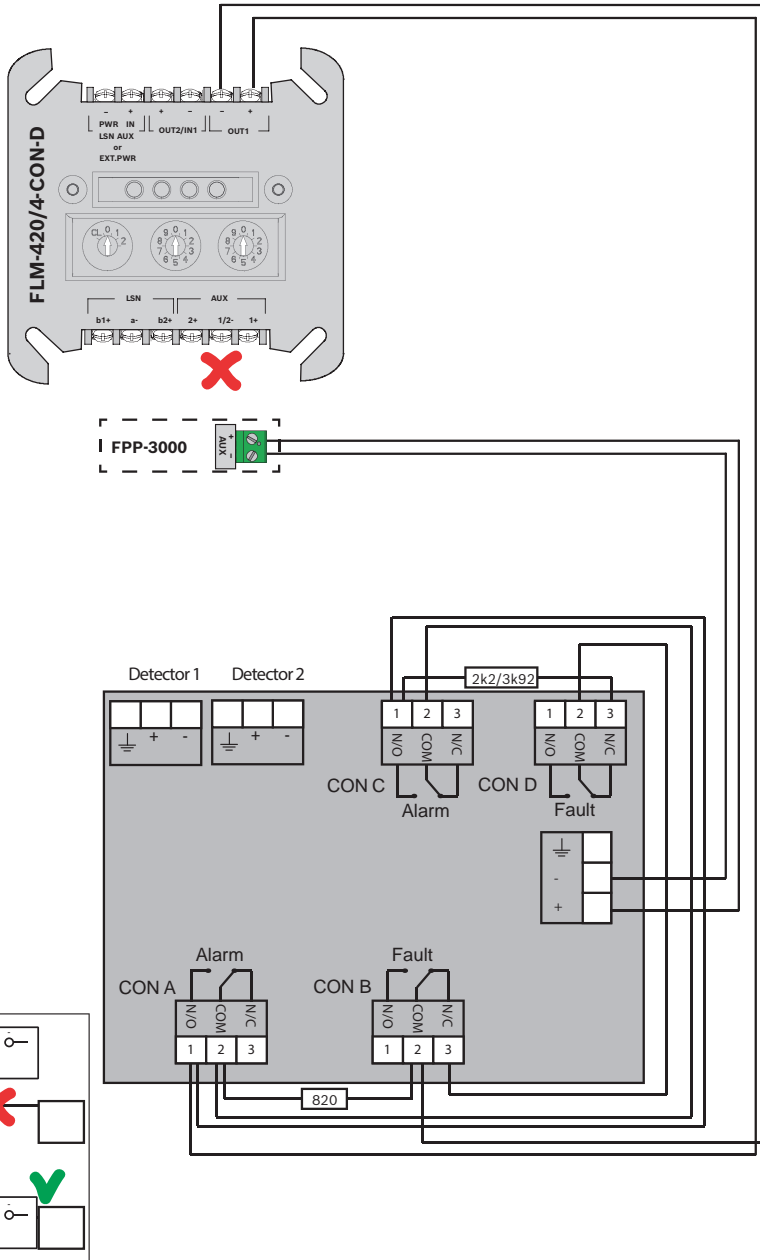
Reset action



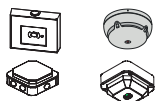


FIRERAY5000

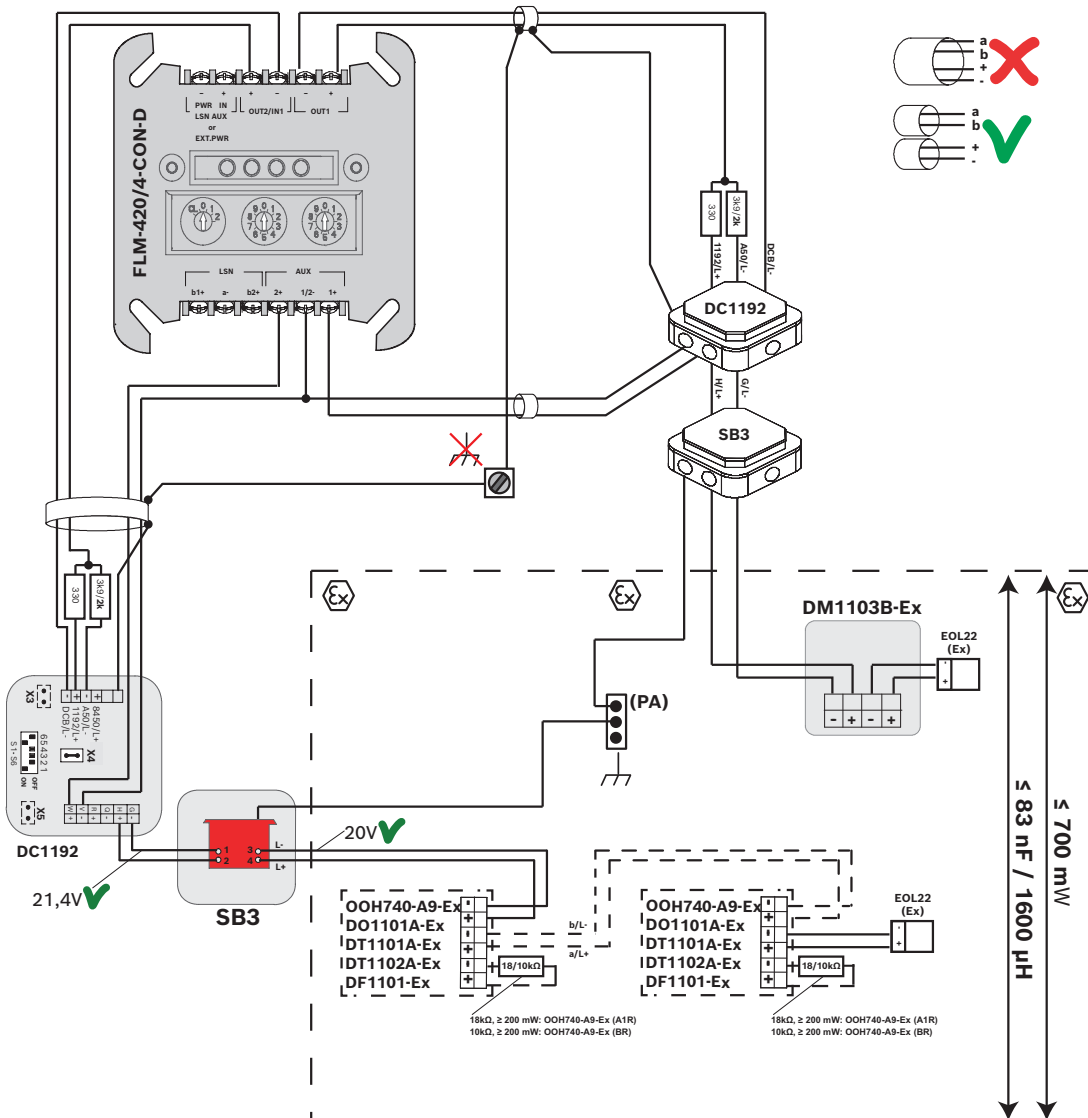
2 x OUT1



Reset action

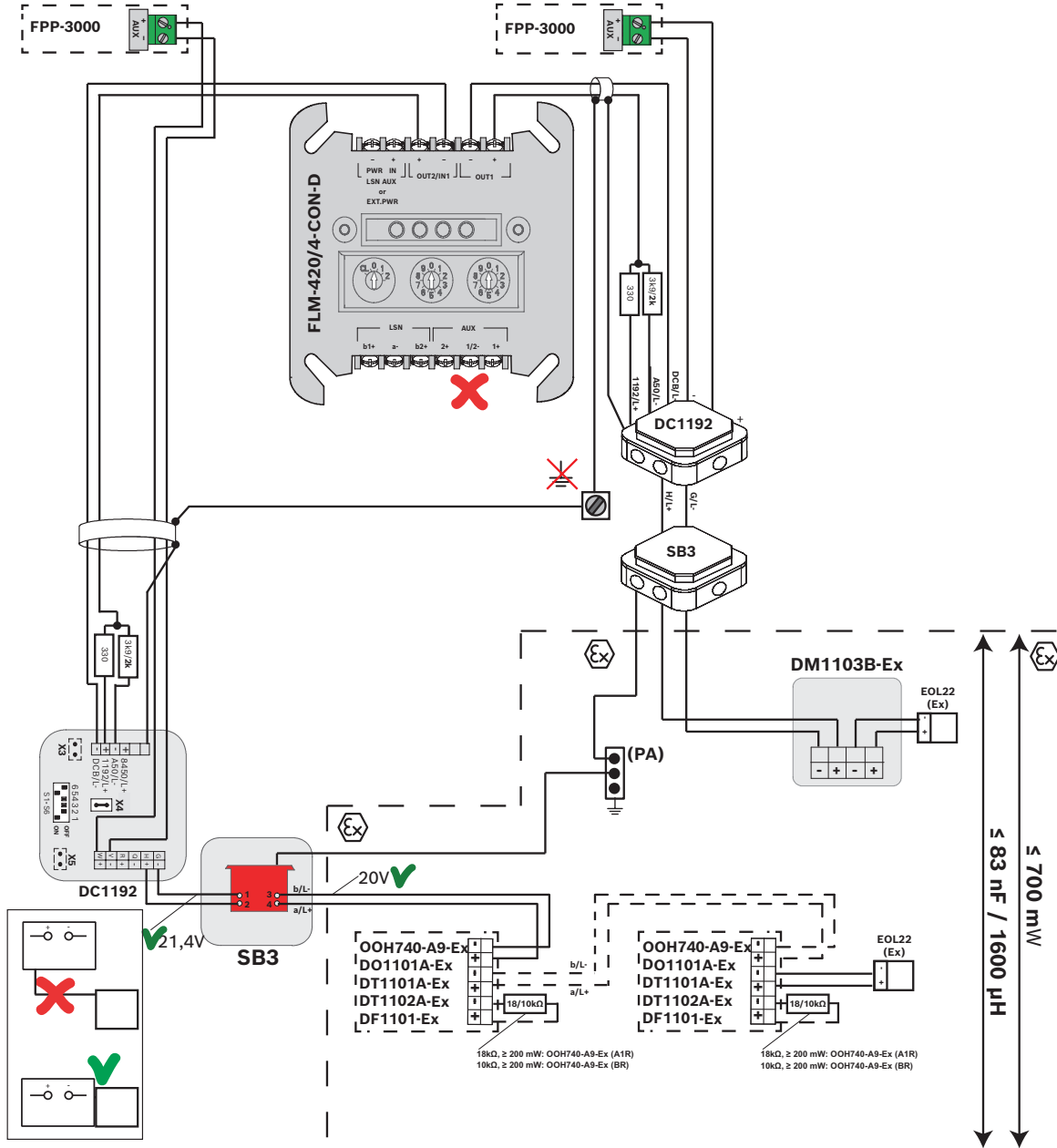


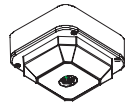
DC1192, SB3
OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex-
/DT1102A-Ex
DF1101-Ex



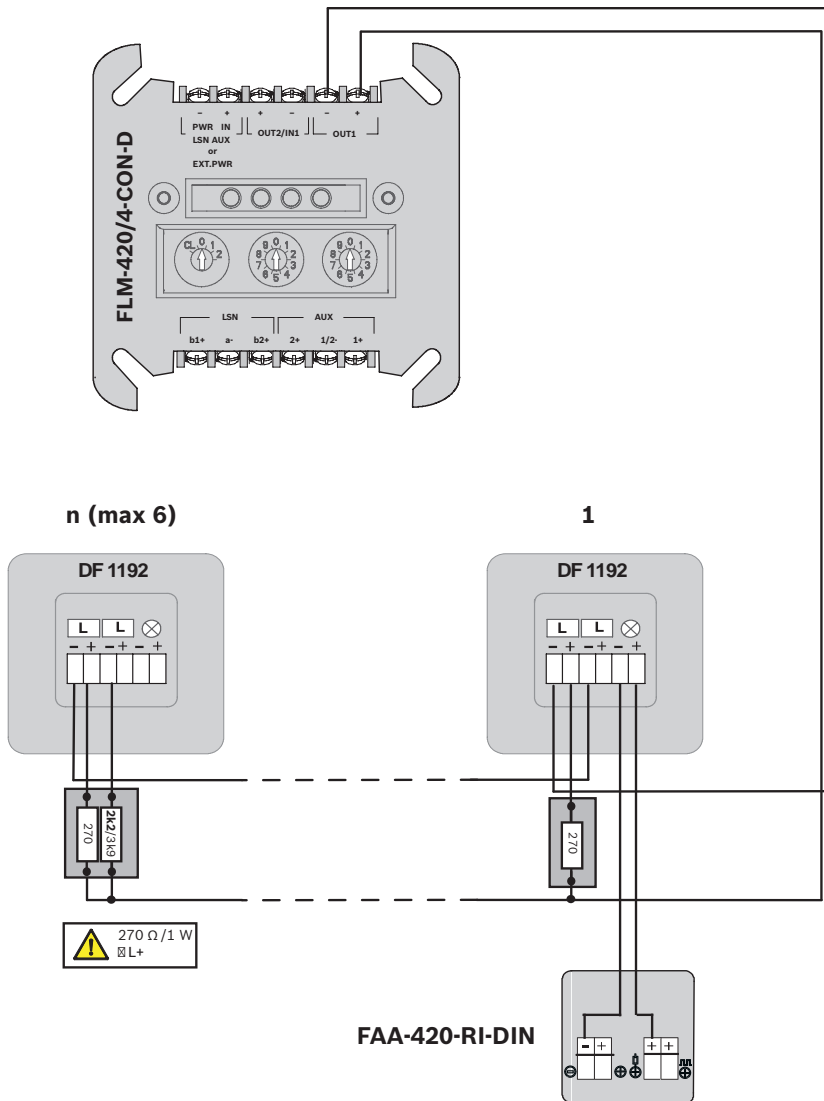


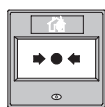
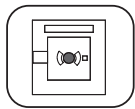
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



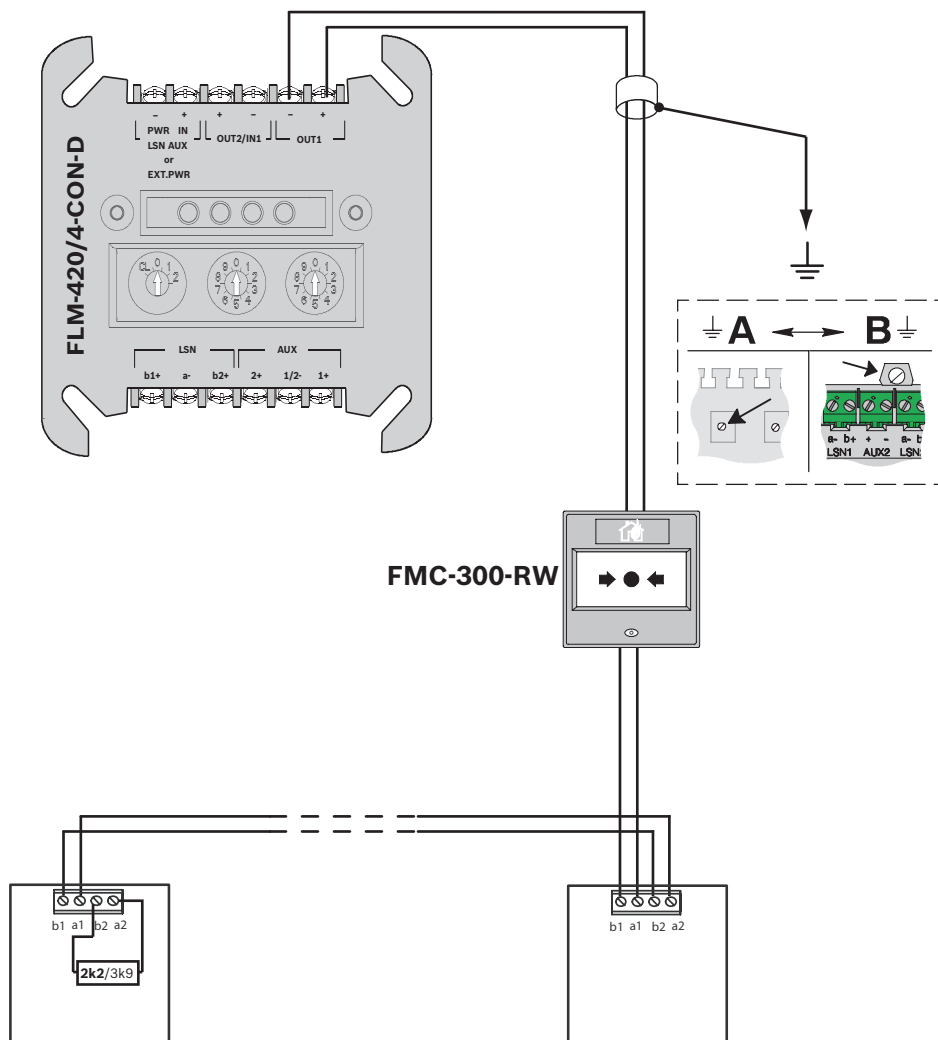
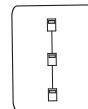


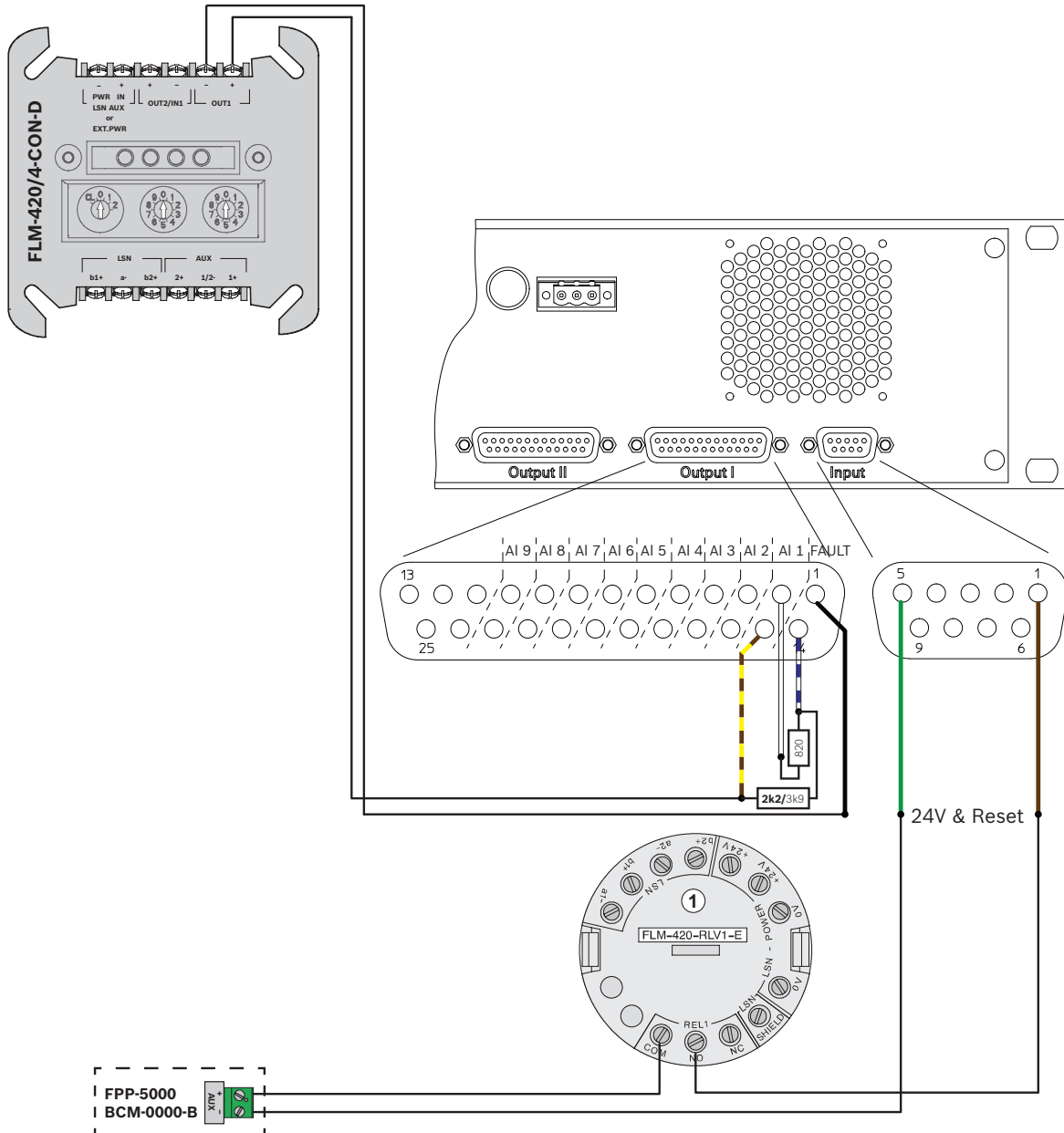
DF 1192

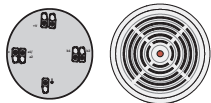




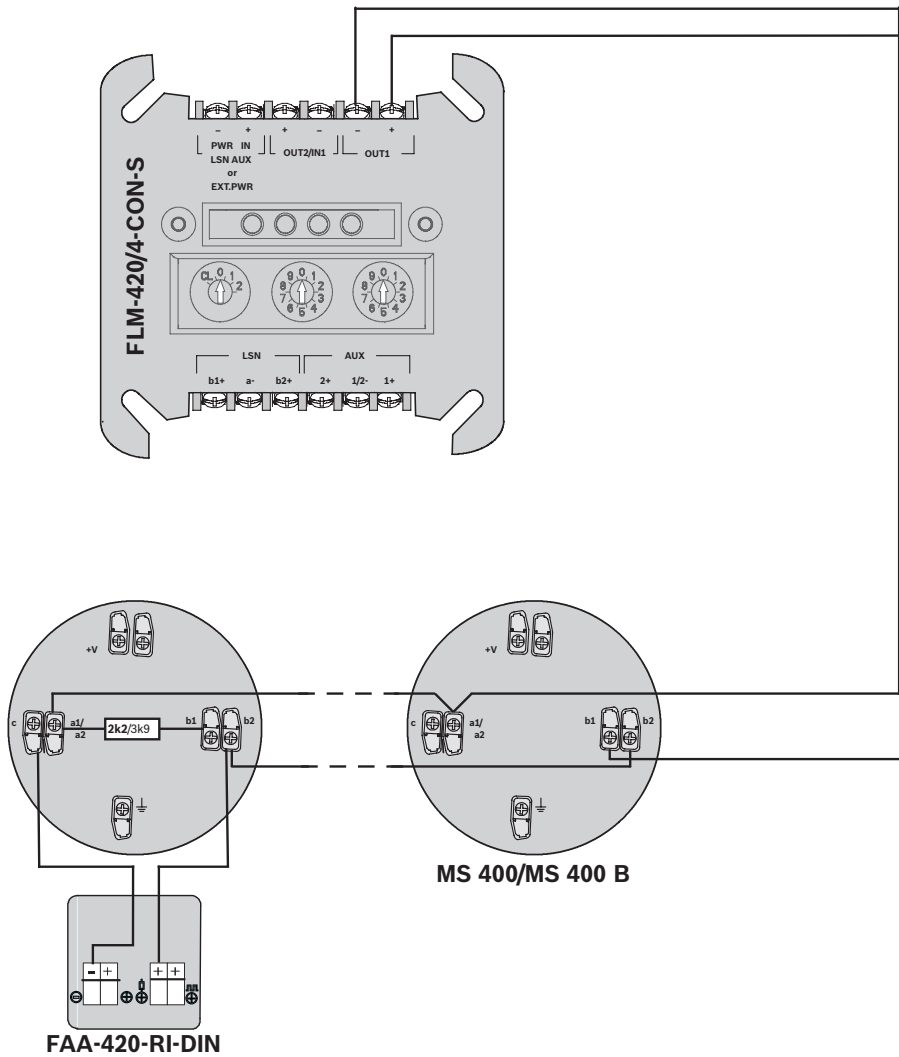
FMC-300-RW

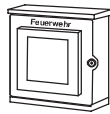
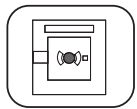




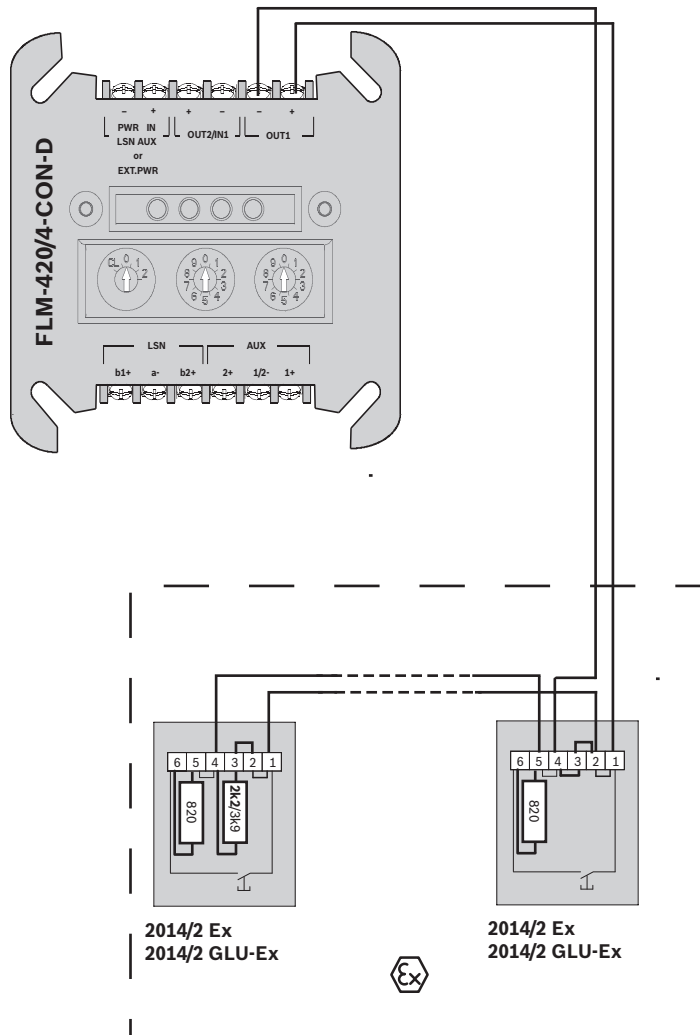
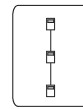


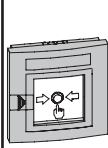
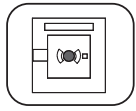
MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



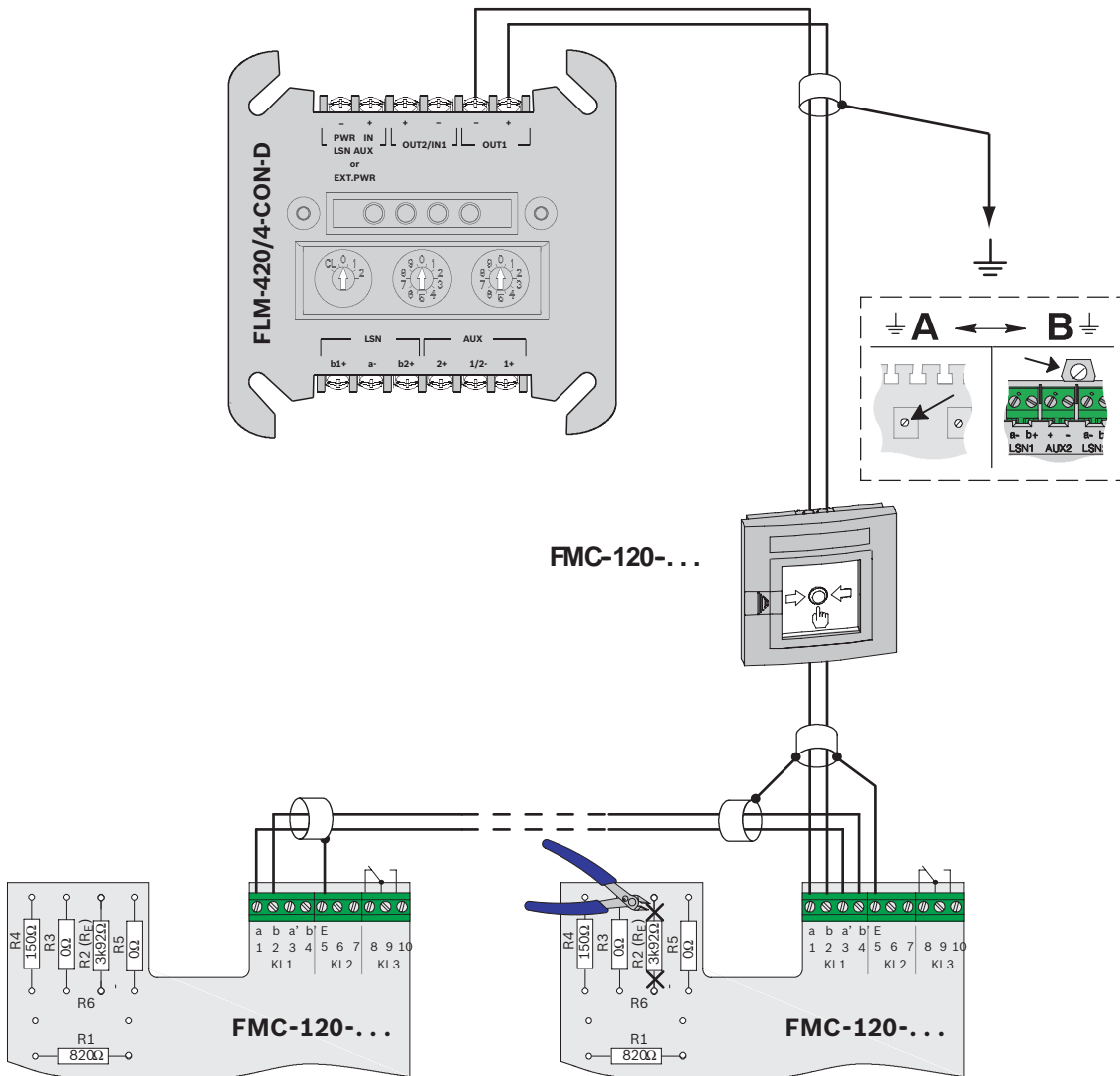
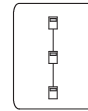


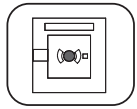
2014/2 Ex
2014/2 GLU-Ex



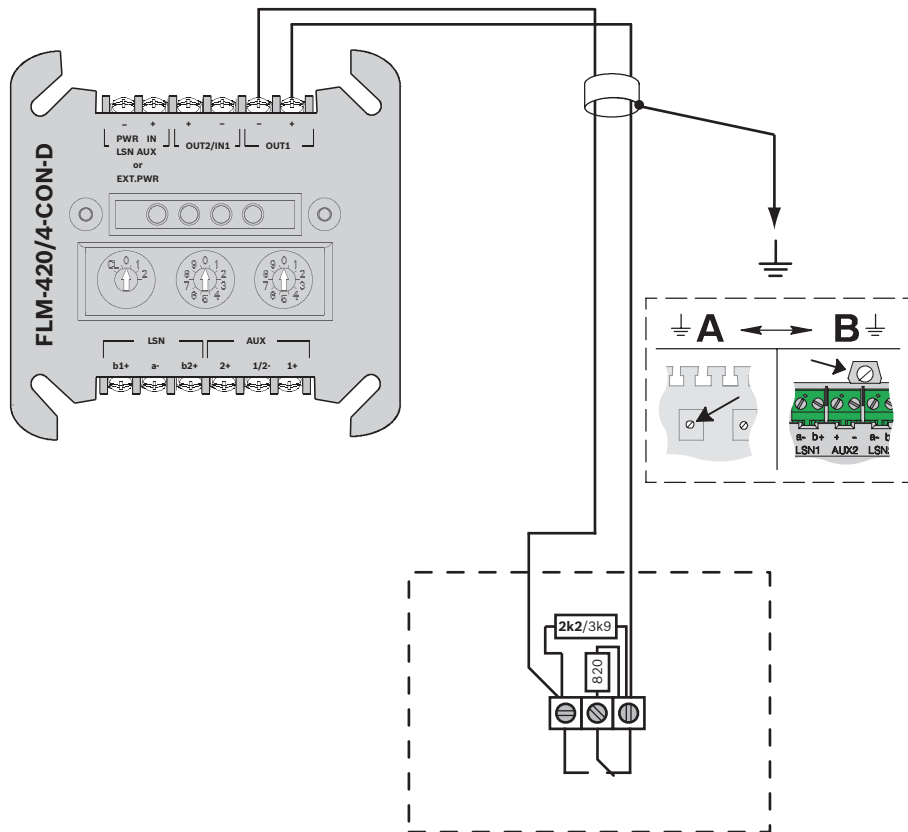
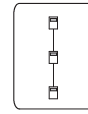


FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B

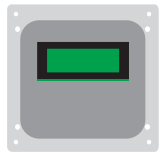




NO

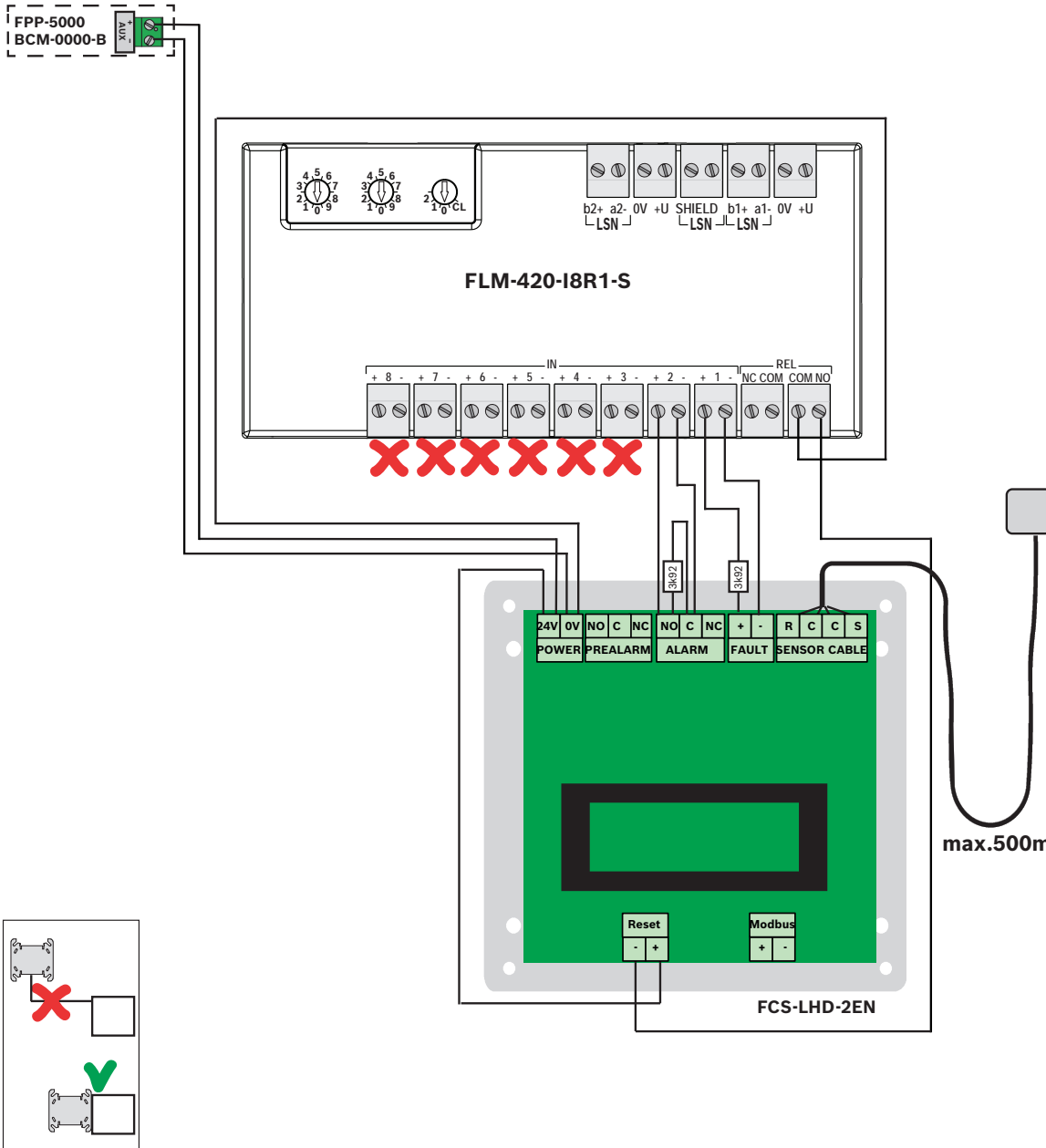


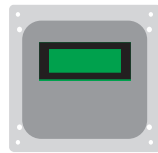
2.5.2 FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





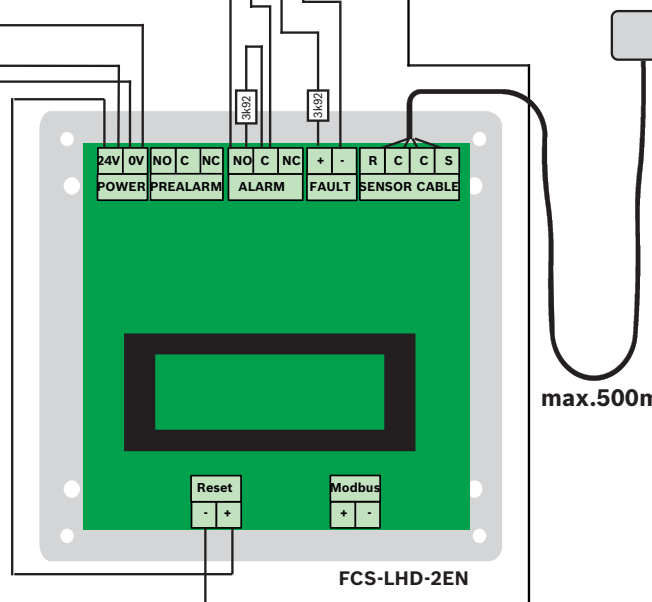
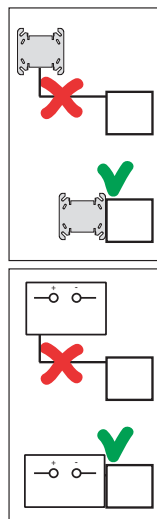
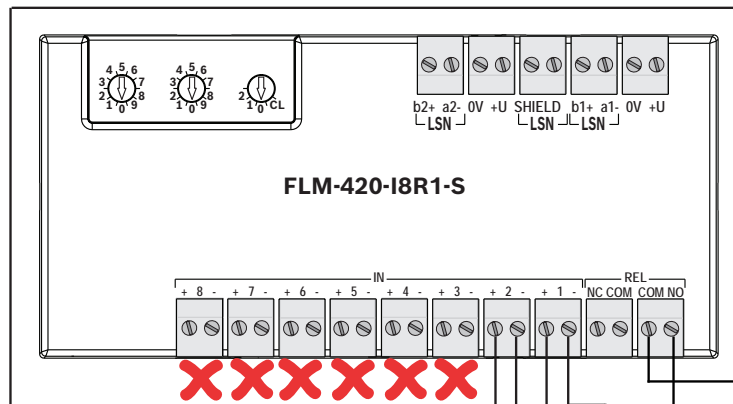
ProReact EN Analogue

FCS-LHD-2EN

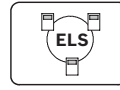


ELS

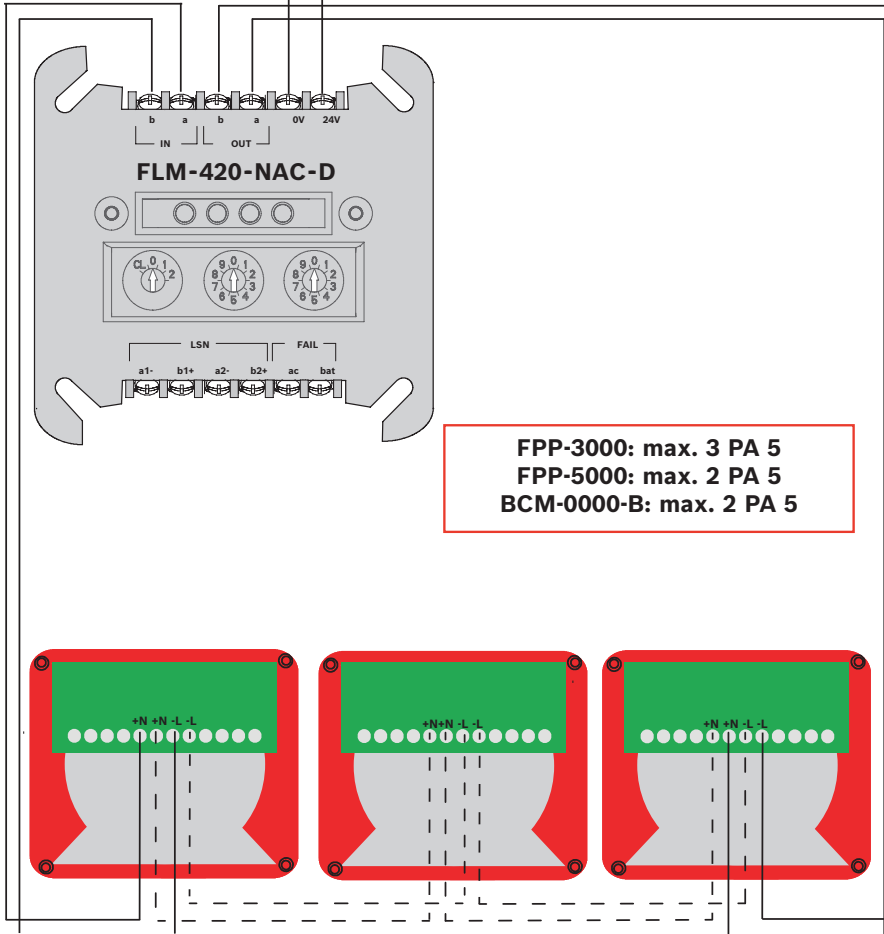
FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B



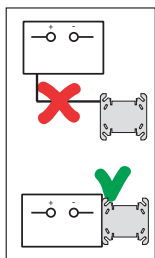
2.5.3 FLM-420-NAC-D/S



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

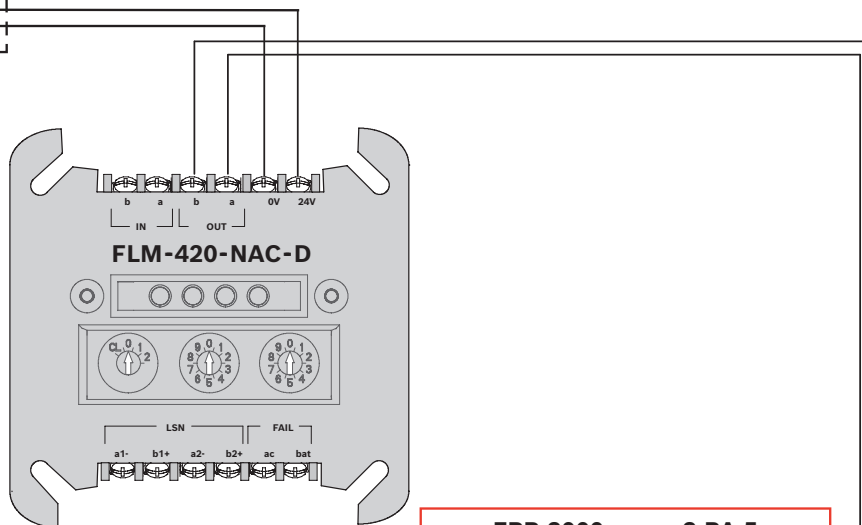


FPP-3000: max. 3 PA 5
FPP-5000: max. 2 PA 5
BCM-0000-B: max. 2 PA 5

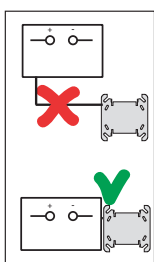
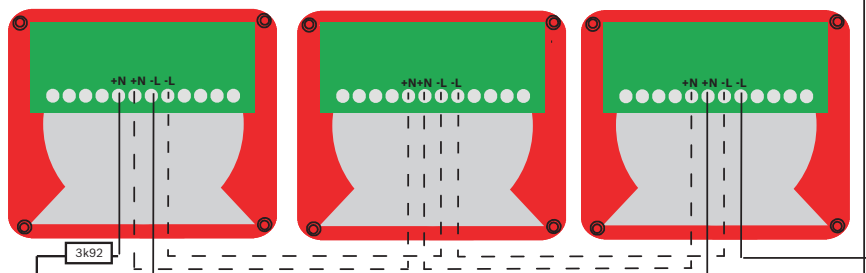


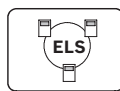


FPP-3000
FPP-5000
BCM-0000-B

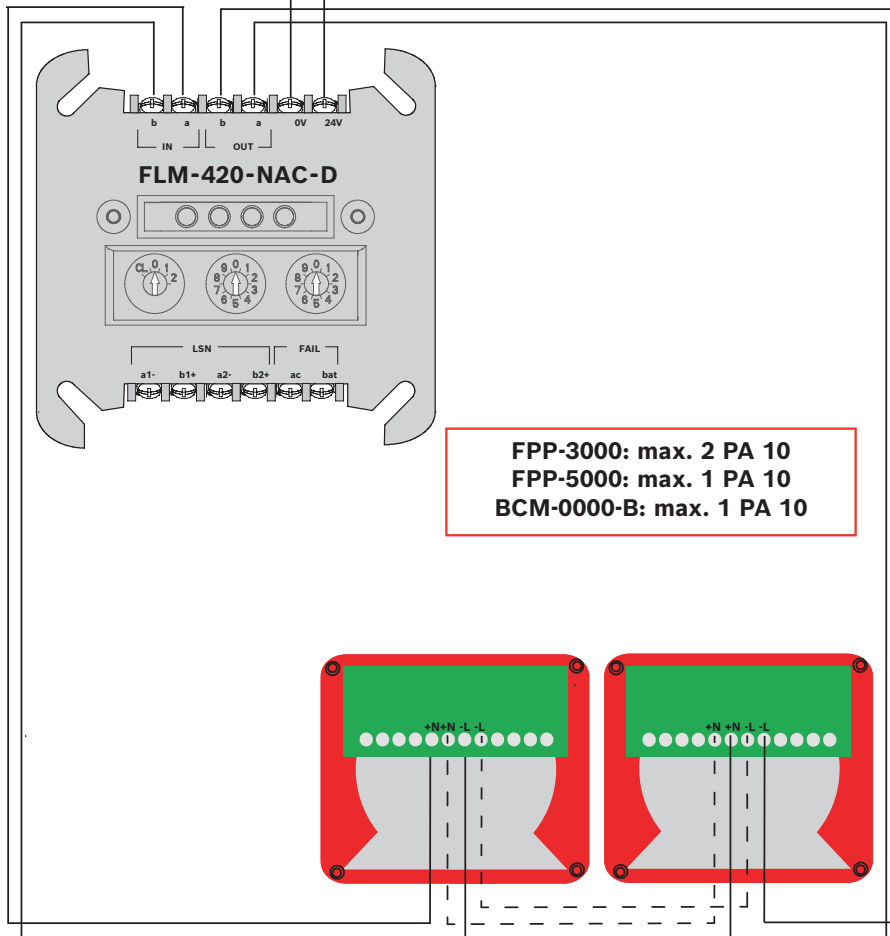


FPP-3000: max. 3 PA 5
FPP-5000: max. 2 PA 5
BCM-0000-B: max. 2 PA 5

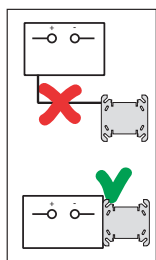




FPP-3000(ZSP135-DR)
 FPP-5000
 BCM-0000-B

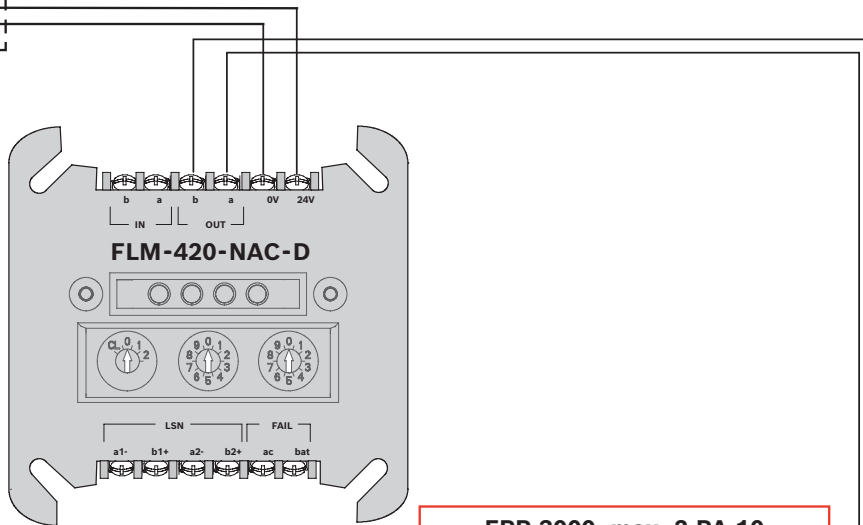


FPP-3000: max. 2 PA 10
FPP-5000: max. 1 PA 10
BCM-0000-B: max. 1 PA 10

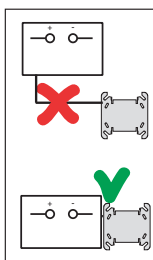
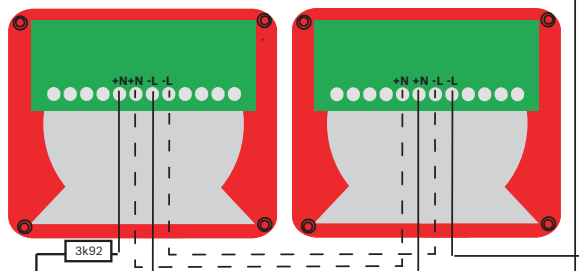


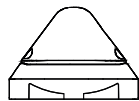


FPP-3000
FPP-5000
BCM-0000-B

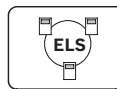


FPP-3000: max. 2 PA 10
FPP-5000: max. 1 PA 10
BCM-0000-B: max. 1 PA 10

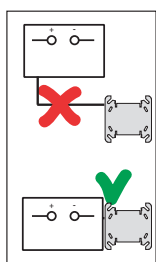
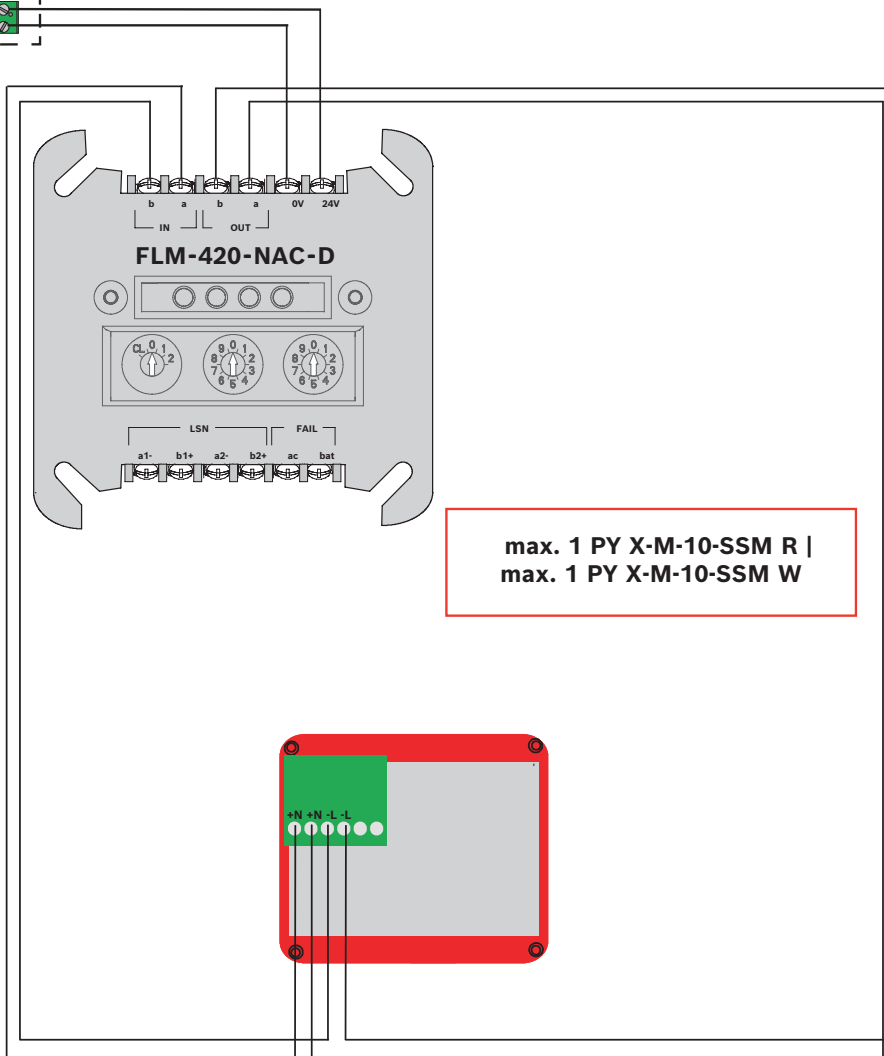


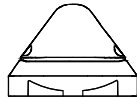


PY X-M-10-SSM R
PY X-M-10-SSM W



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

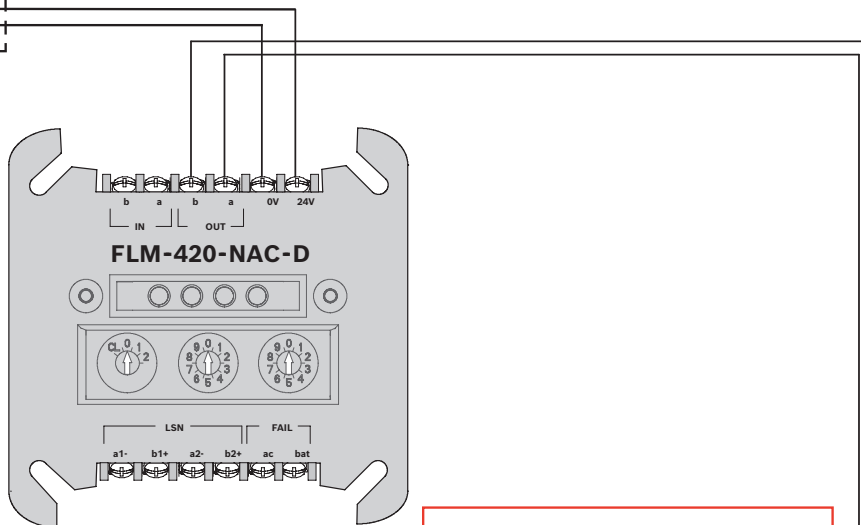




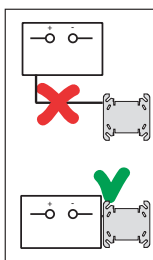
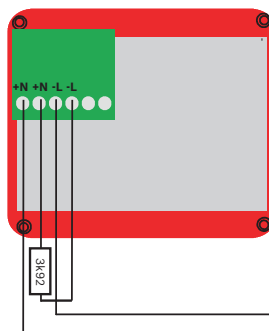
PY X-M-10-SSM R
PY X-M-10-SSM W



FPP-3000
 FPP-5000
 BCM-0000-B

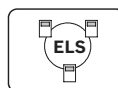


max. 1 PY X-M-10-SSM R |
max. 1 PY X-M-10-SSM W

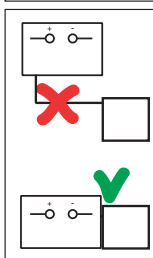
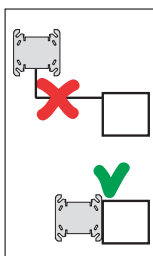
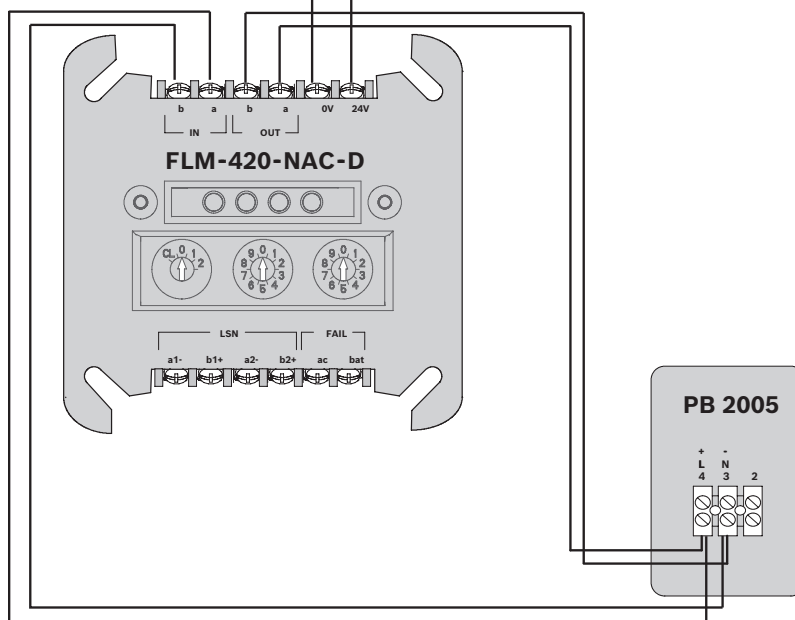




PB 2005



FPP-5000
BCM-0000-B

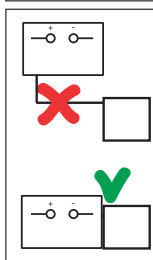
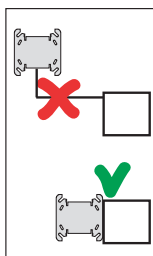
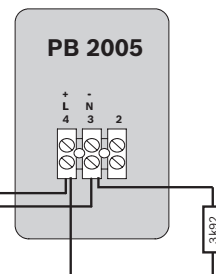
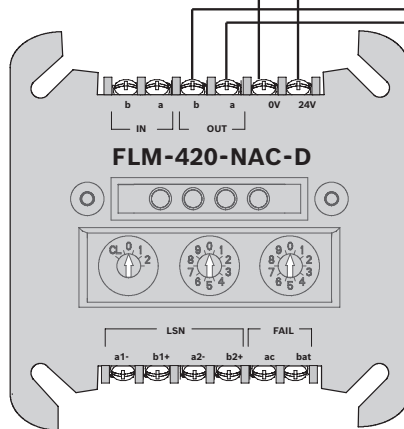


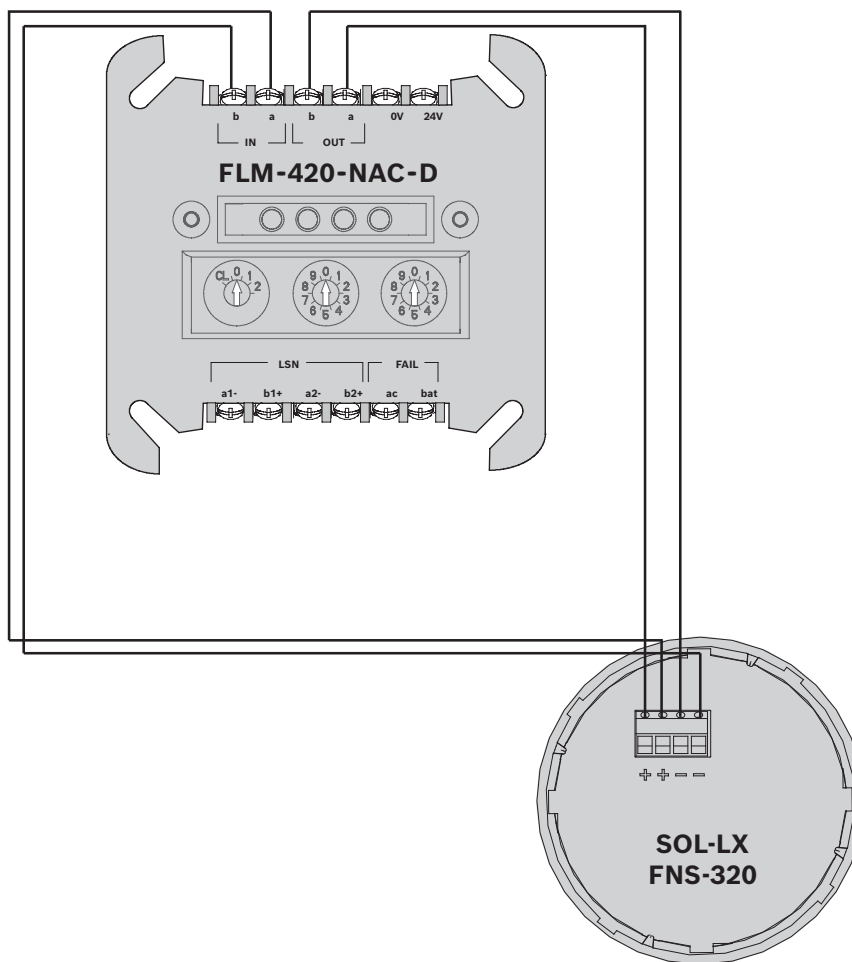
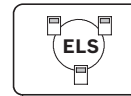


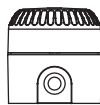
PB 2005



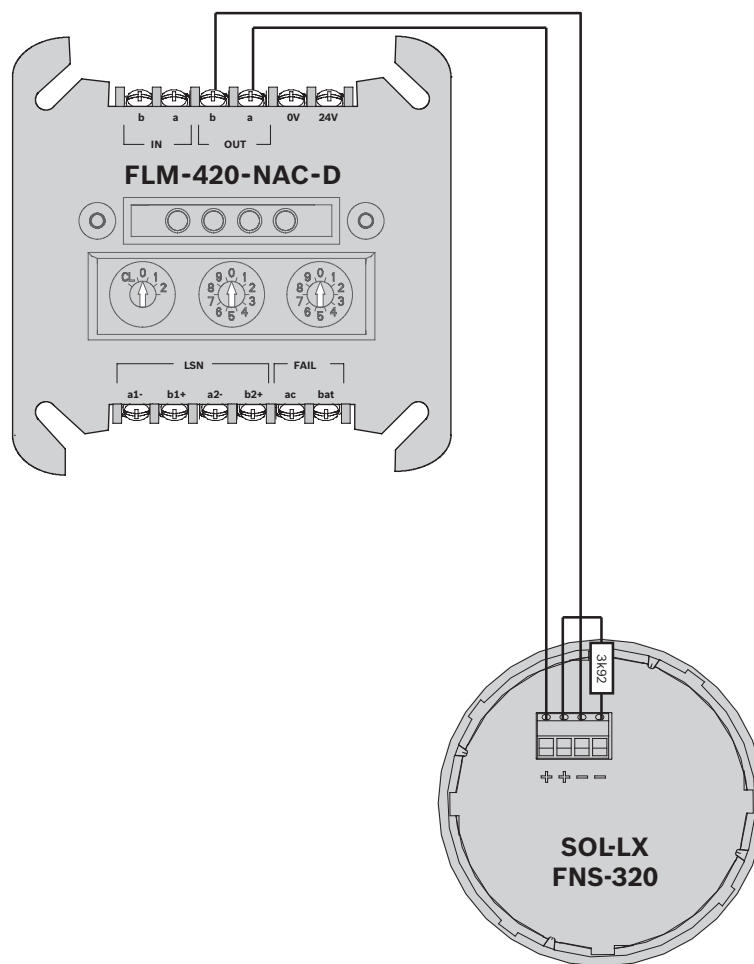
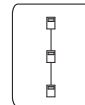
FPP-5000
BCM-0000-B

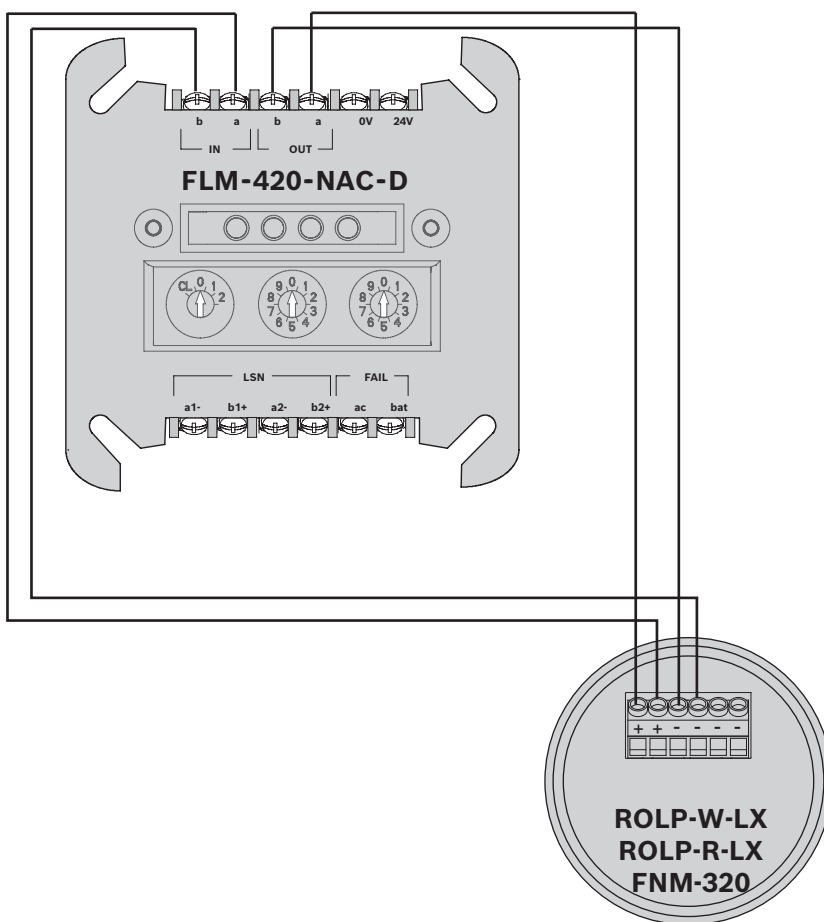
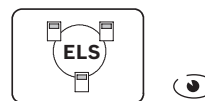


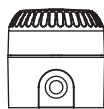
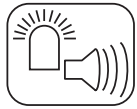




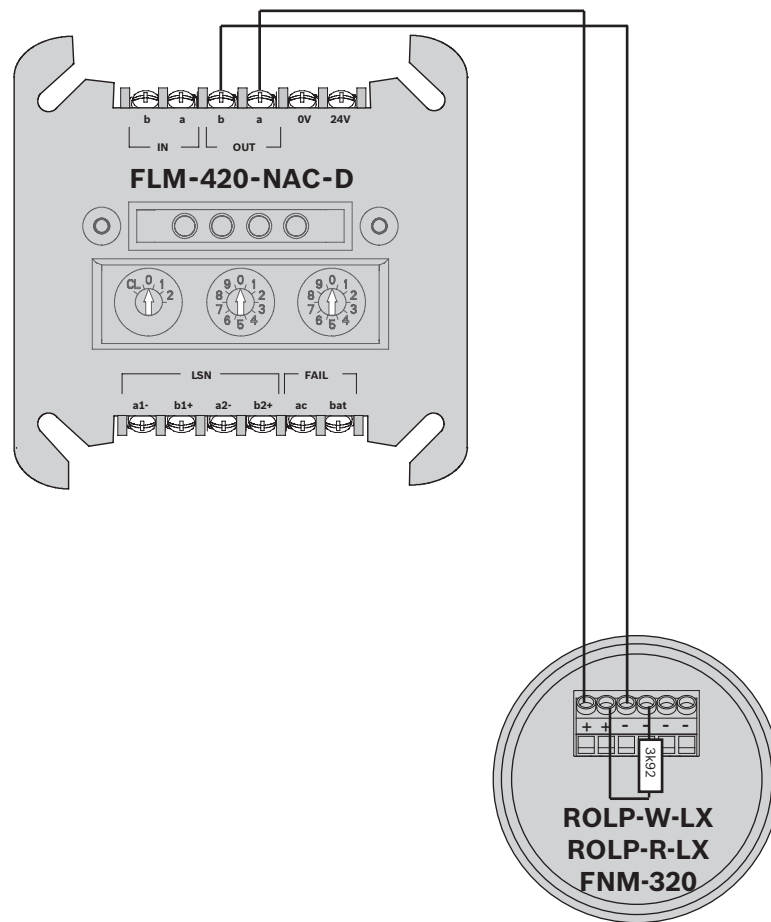
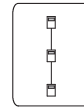
**SOL-LX
FNS-320**



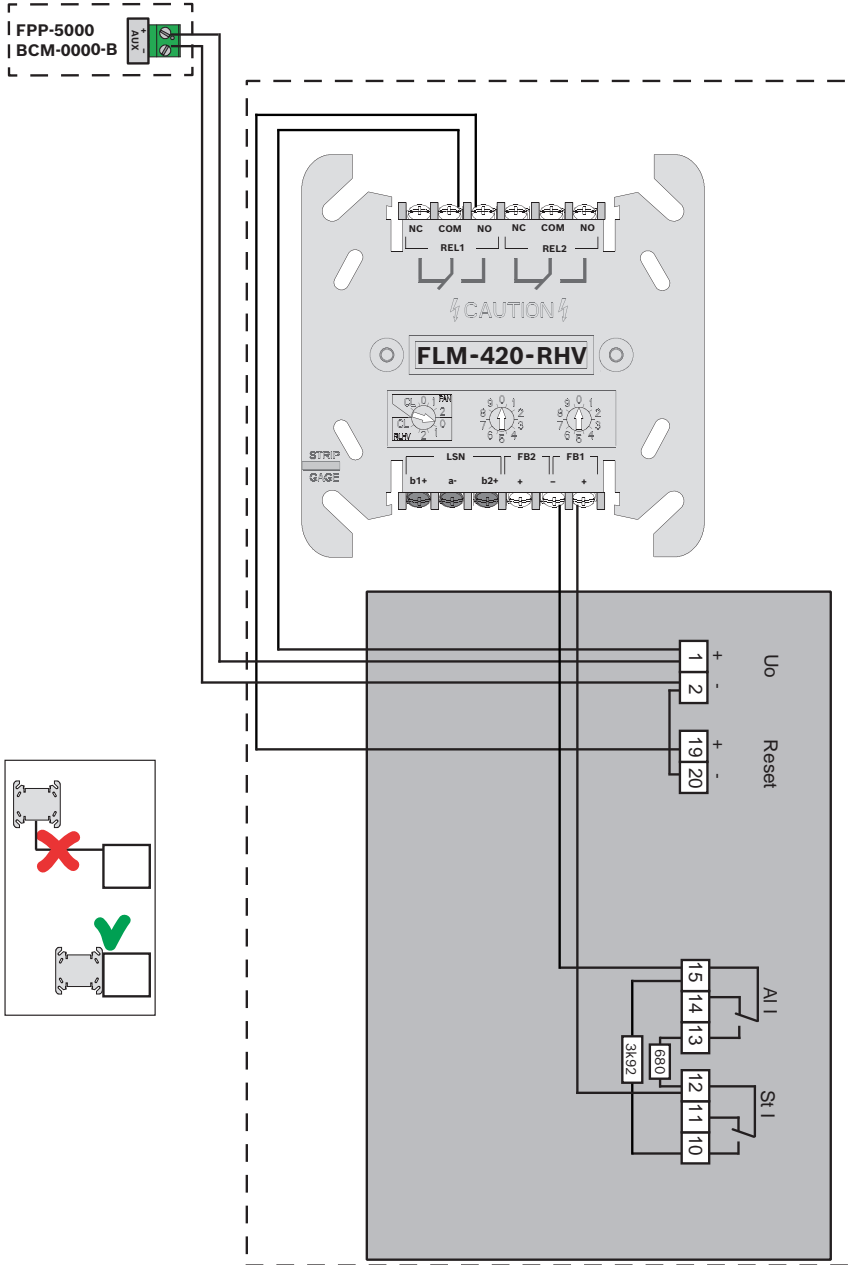
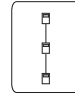




ROLP-W-LX
ROLP-R-LX
FNM-320

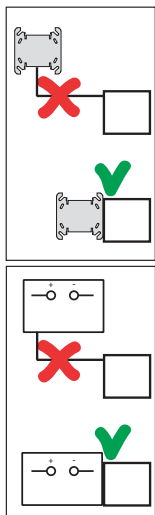
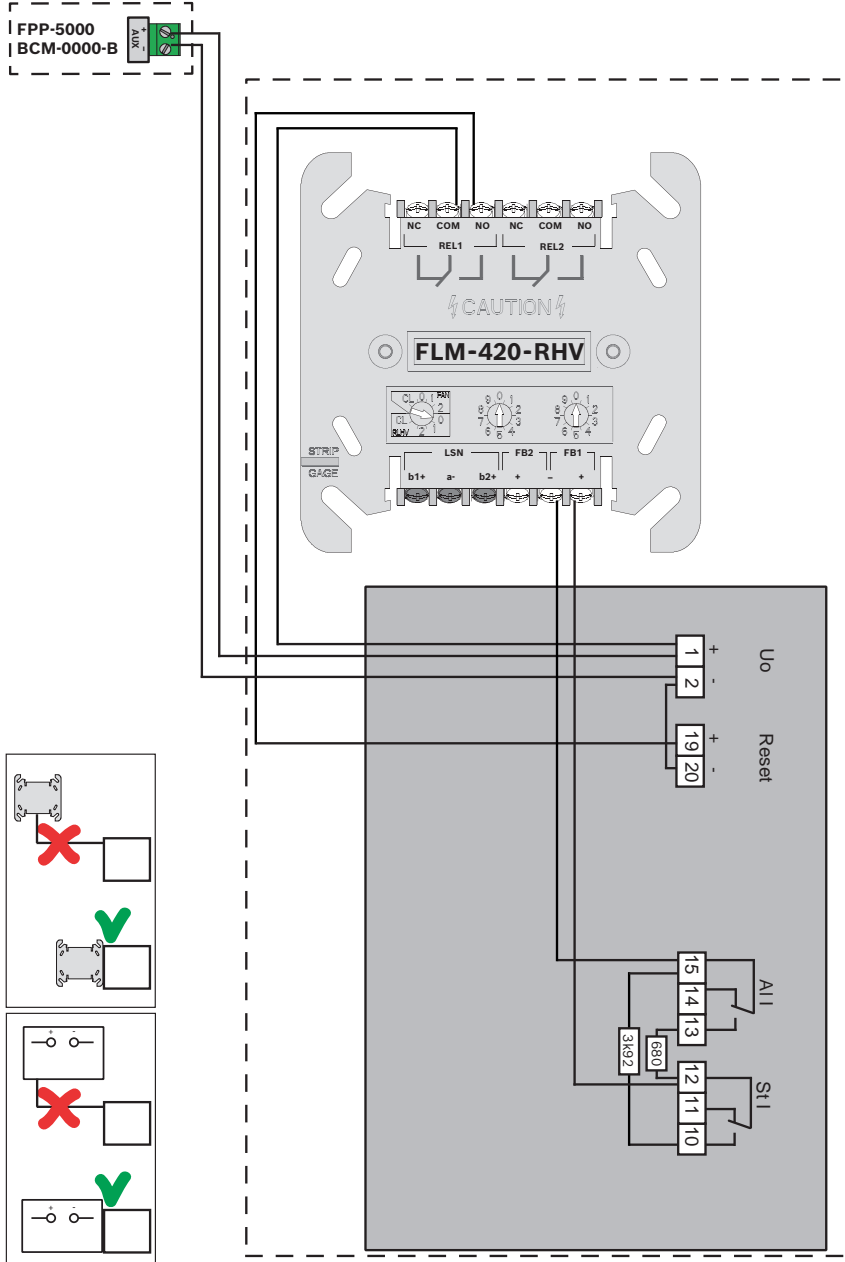


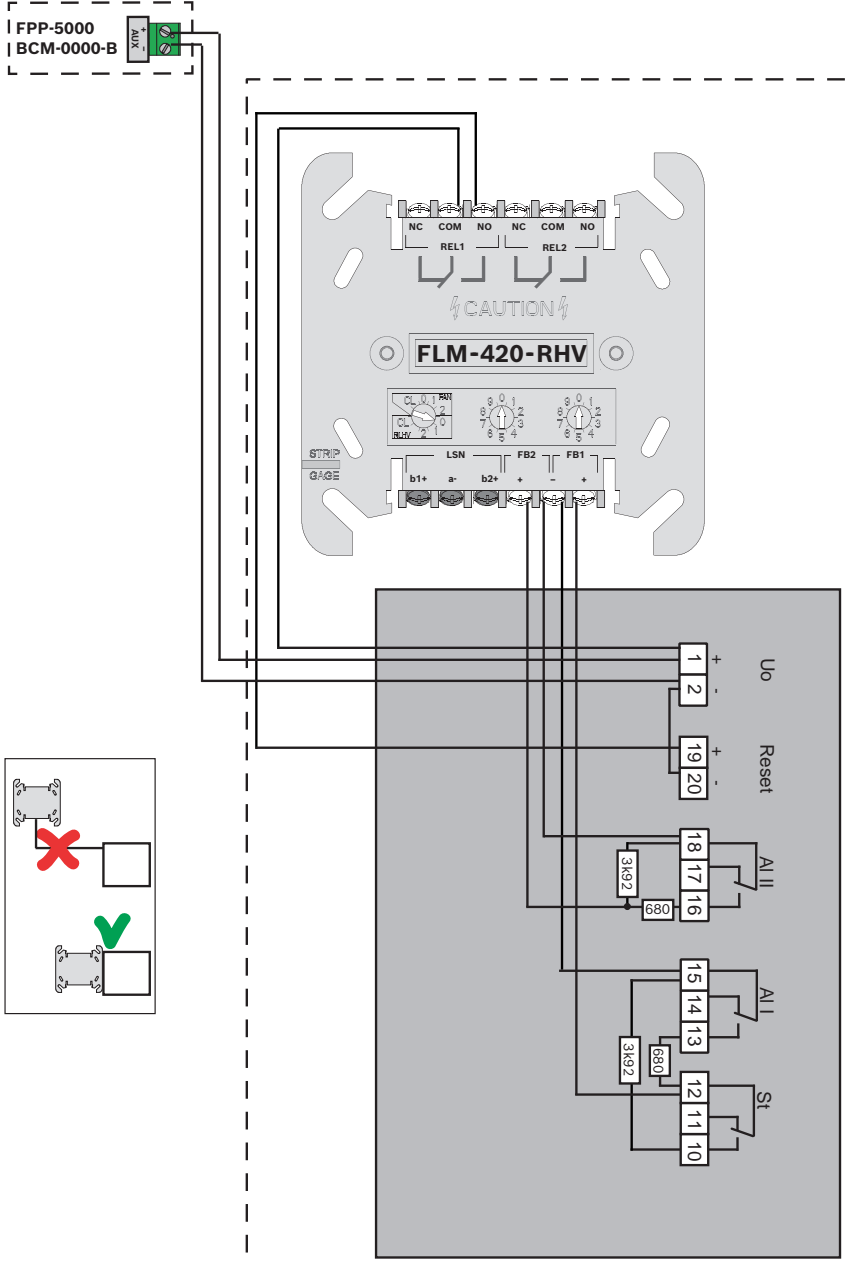
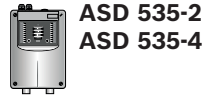
2.5.4 FLM-420-RHV





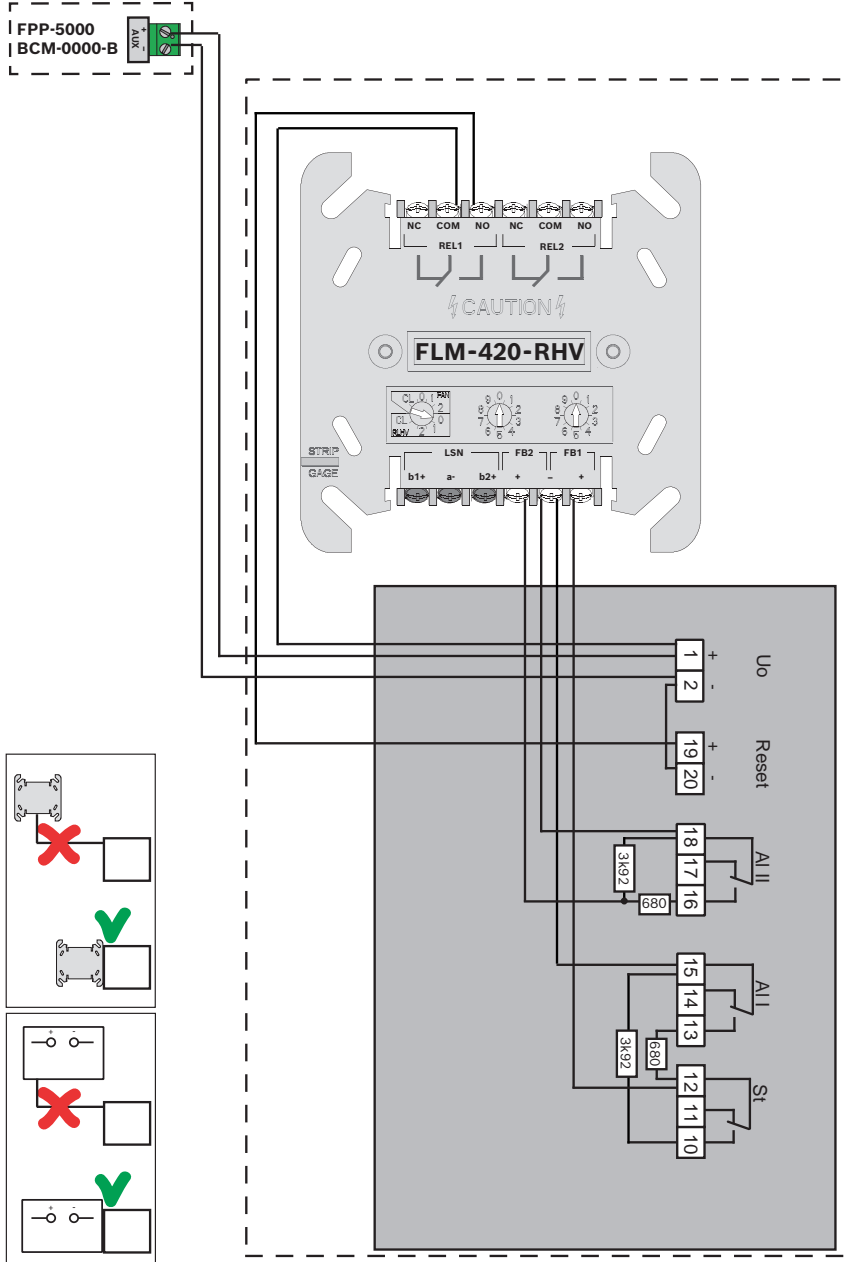
ELS

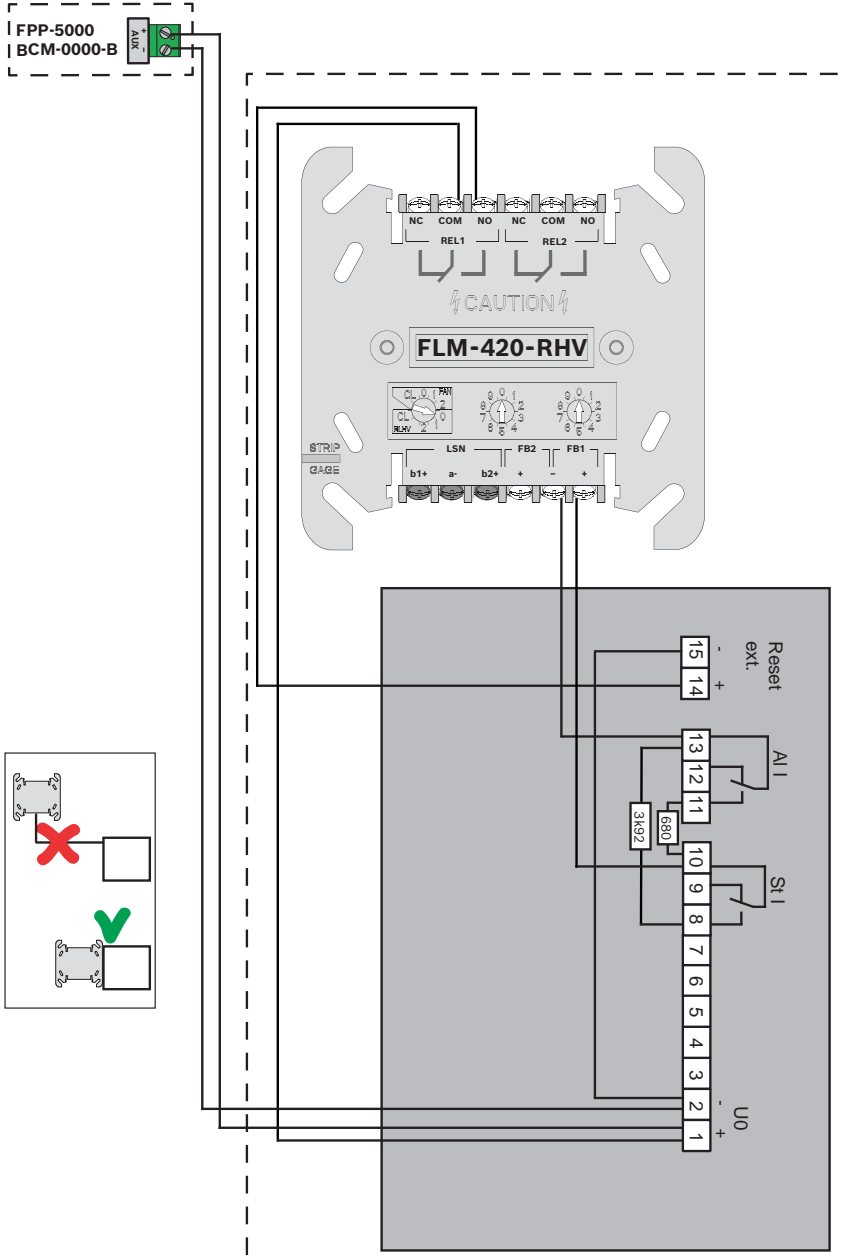






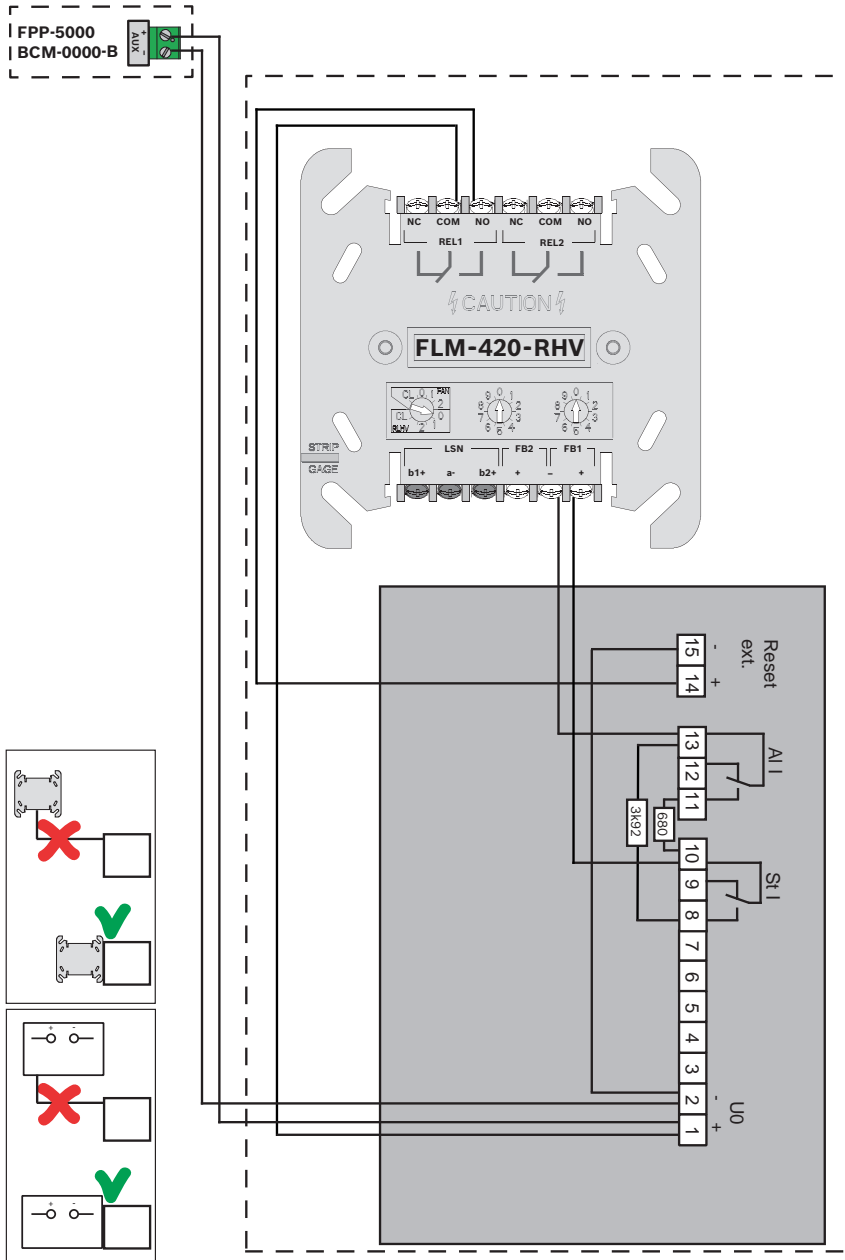
ELS





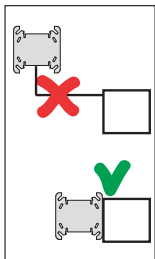
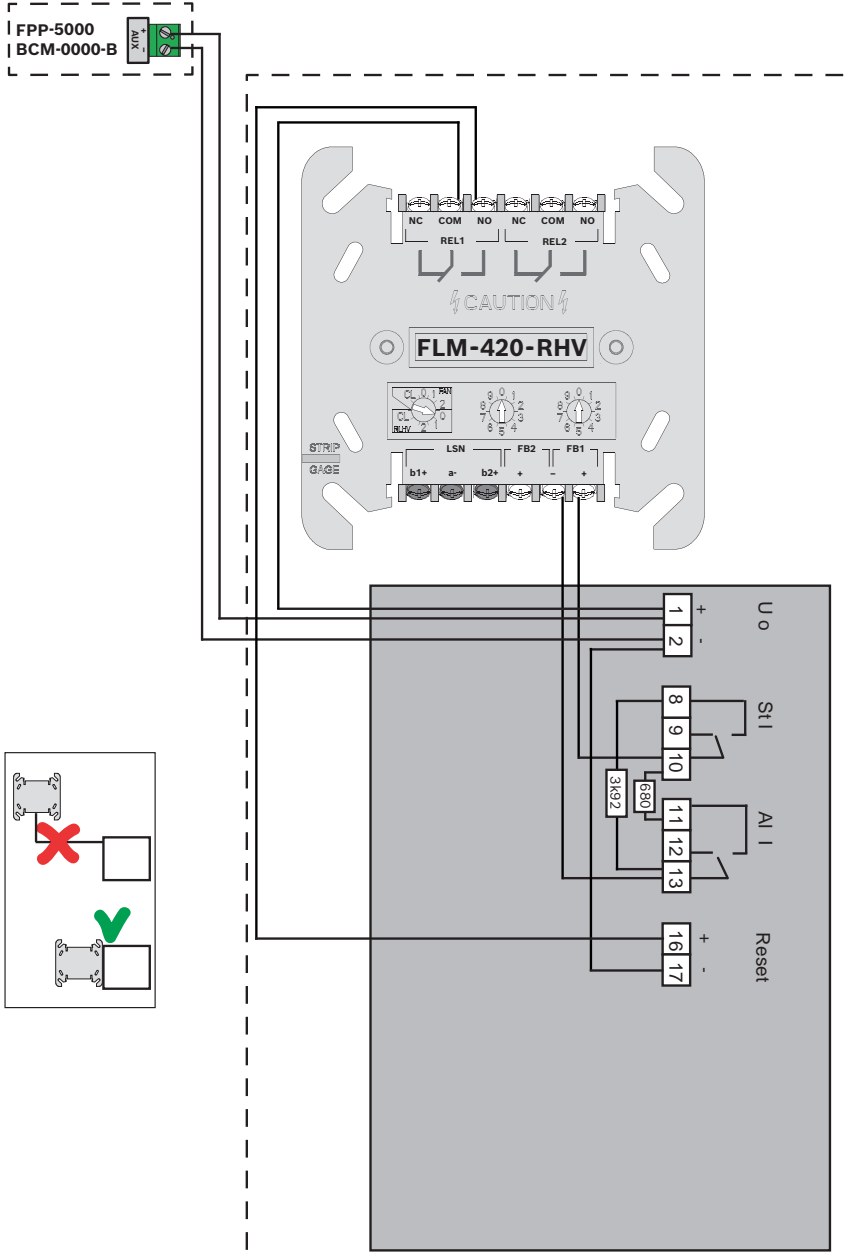


ELS





ADW 535-1

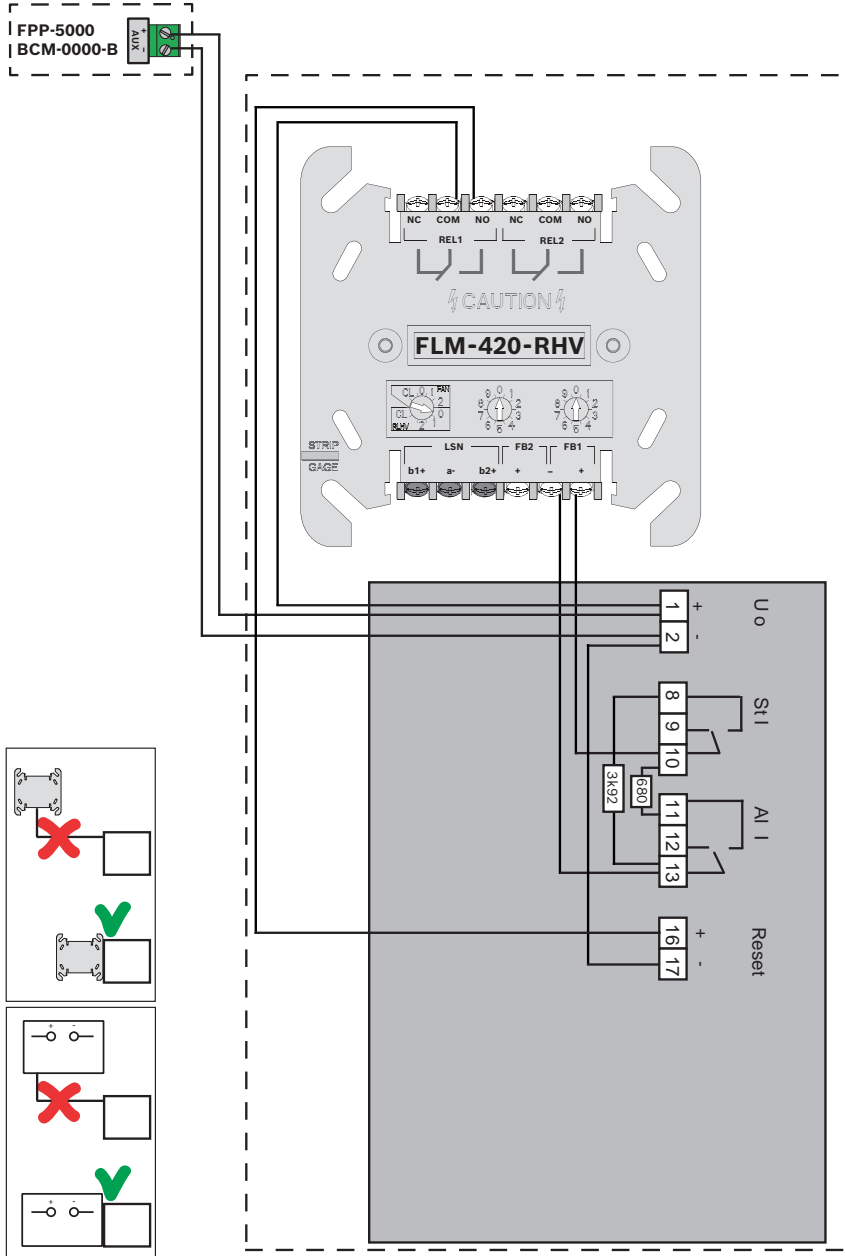




ADW 535-1

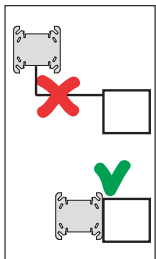
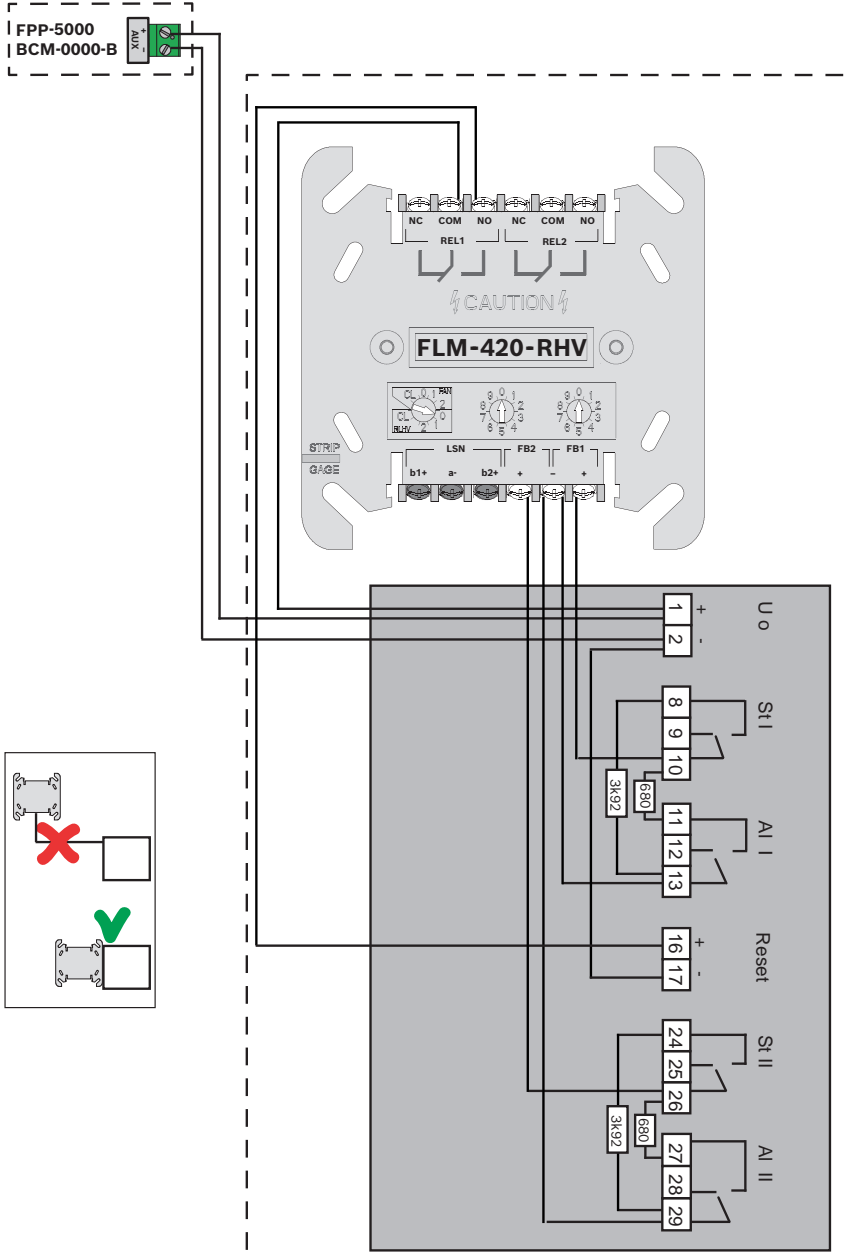


ELS





ADW 535-2

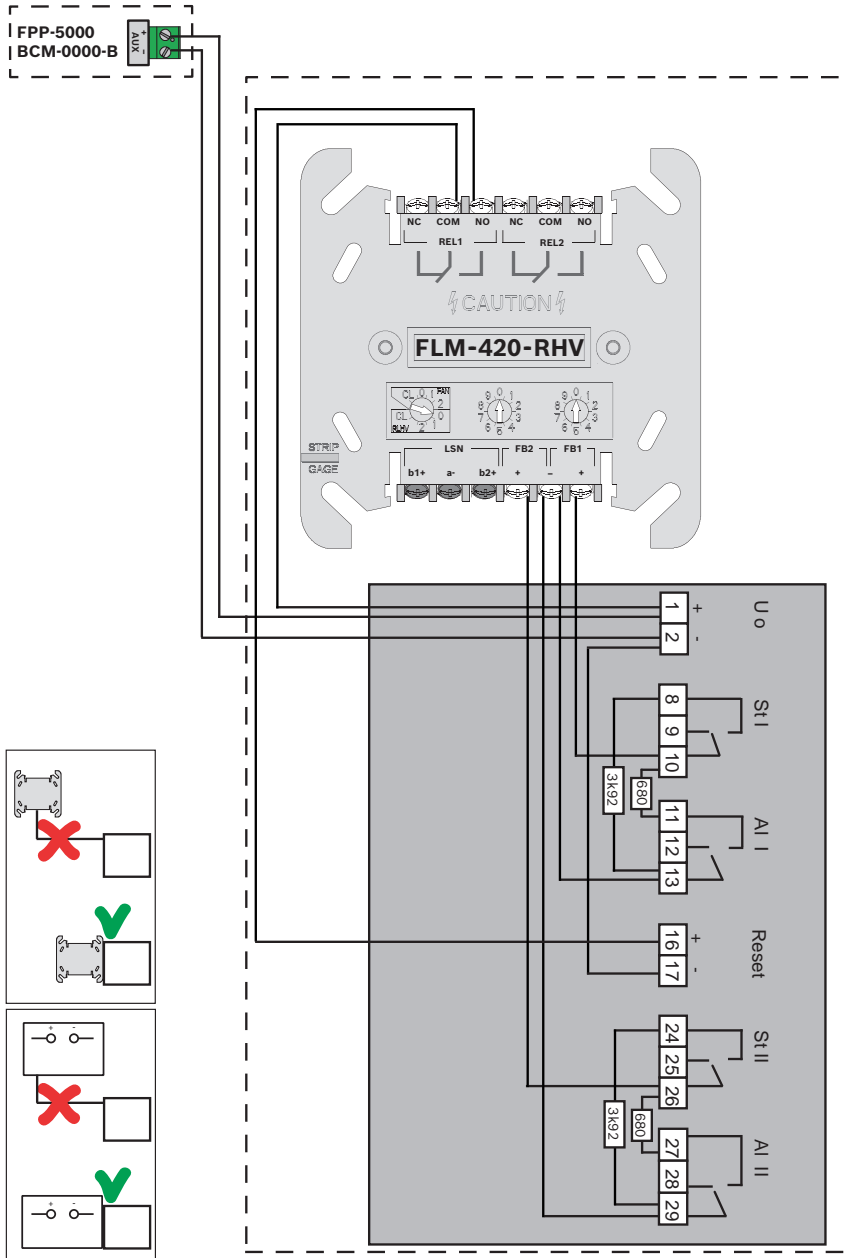




ADW 535-2

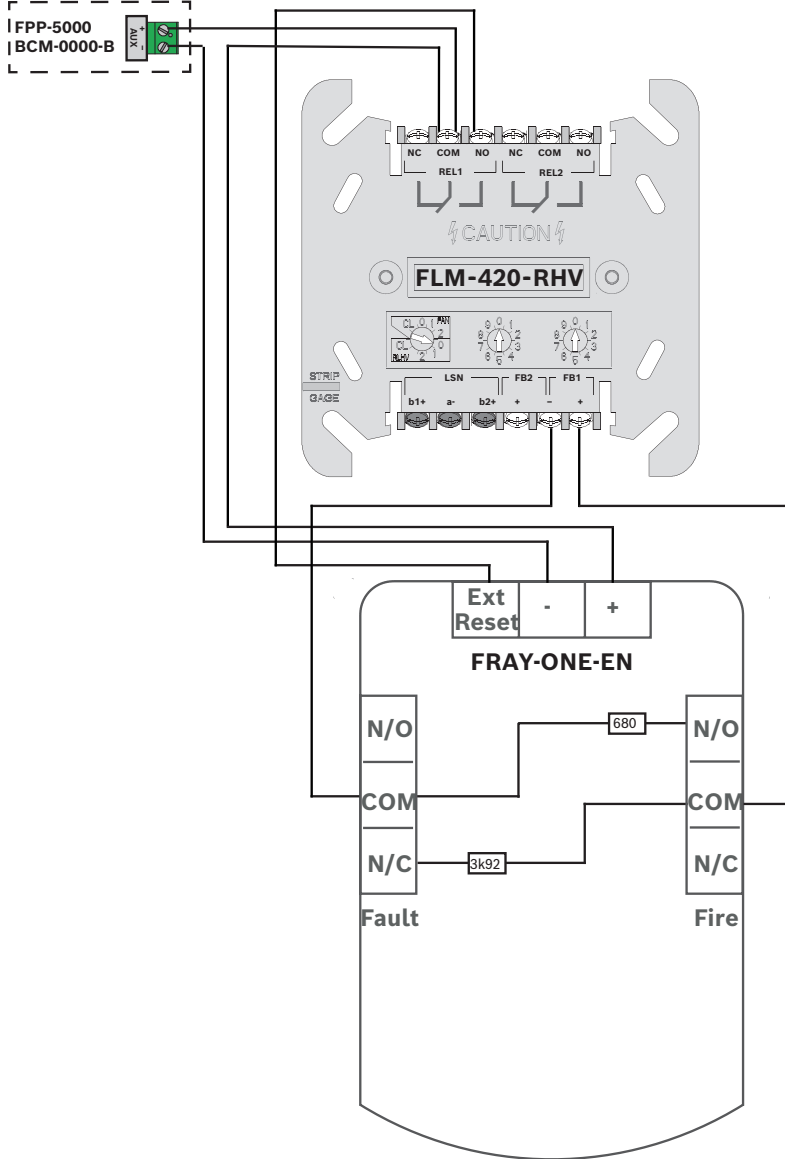


ELS





Fireray One



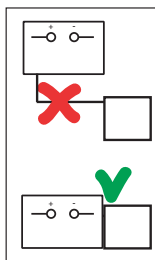
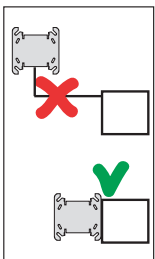
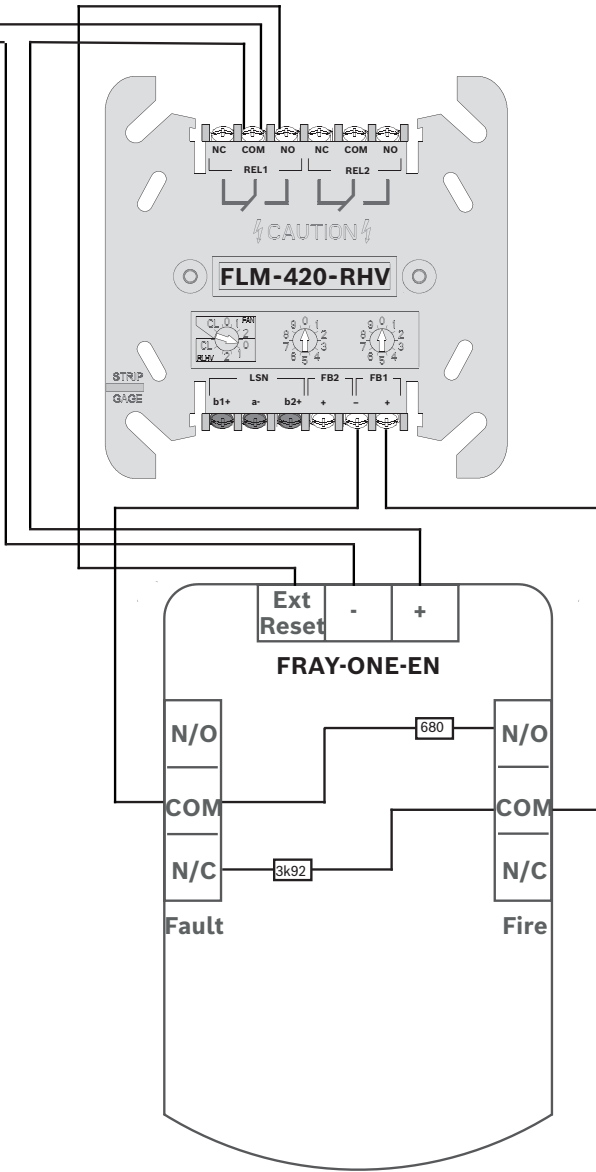


Fireray One



ELS

FPP-5000
BCM-0000-B

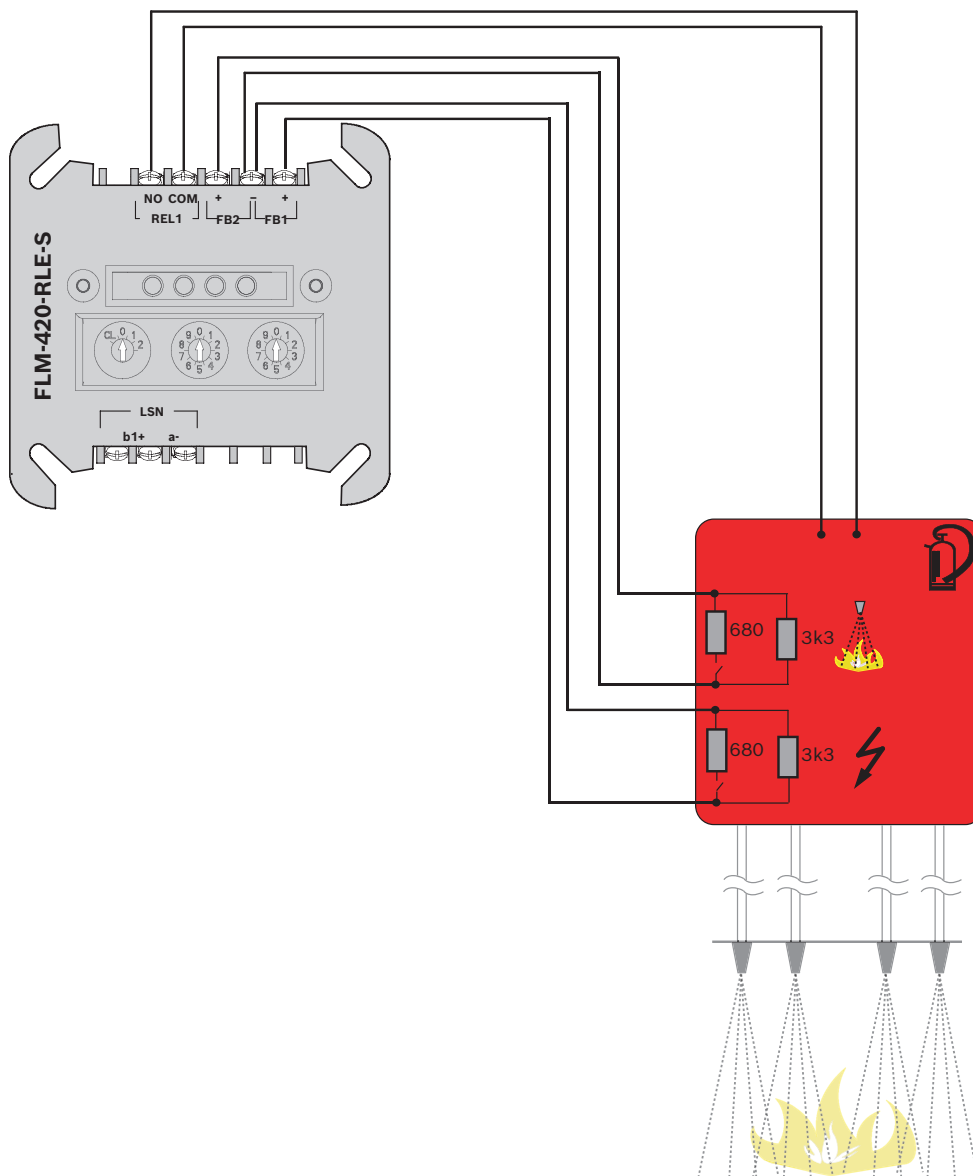


2.5.5

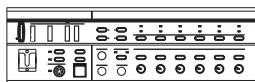
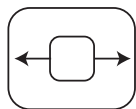
FLM-420-RLE-S



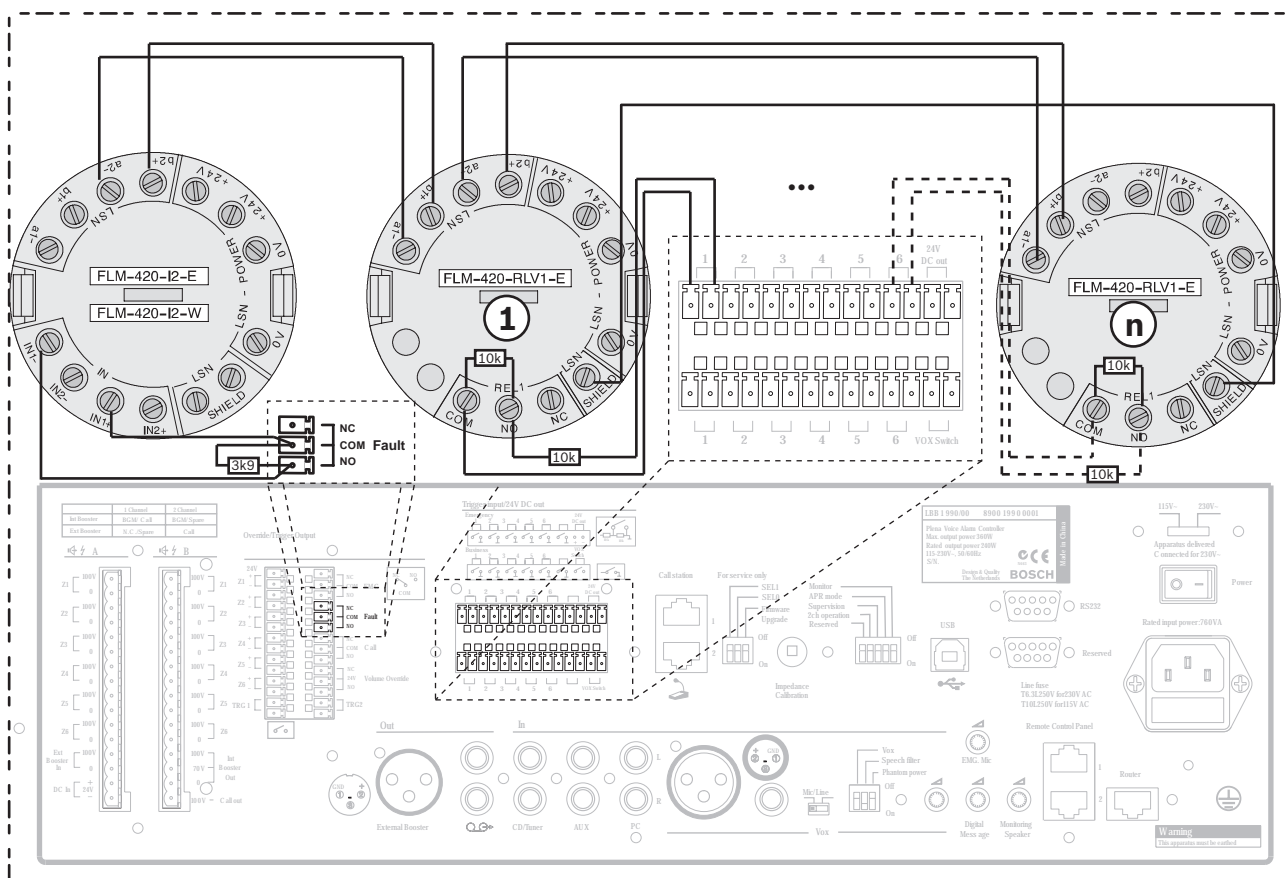
VdS 2496



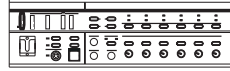
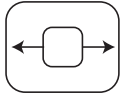
2.5.6 FLM-420-RLV1-E



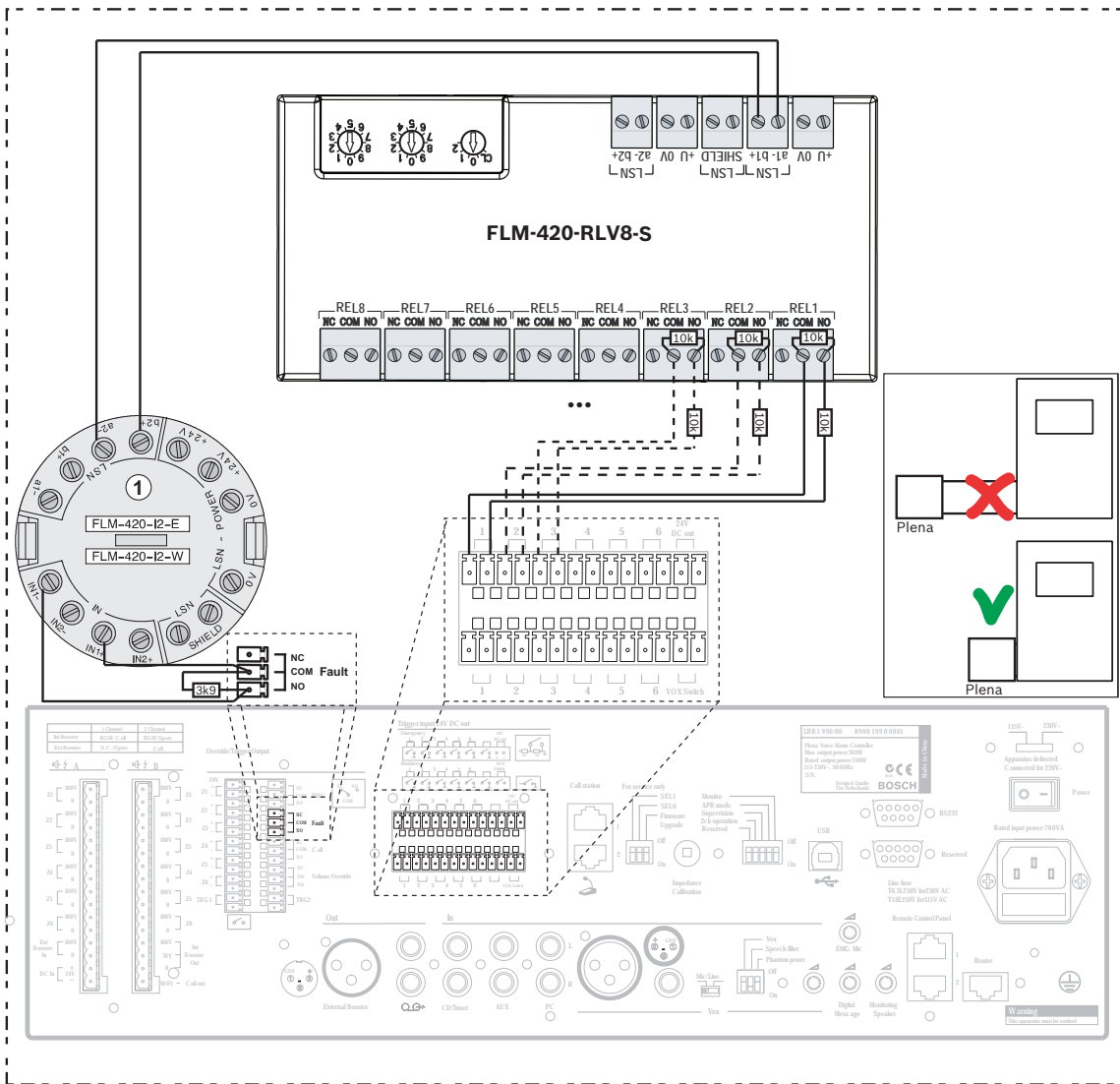
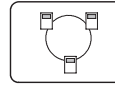
Plena



2.5.7 FLM-420-RLV8-S



Plena



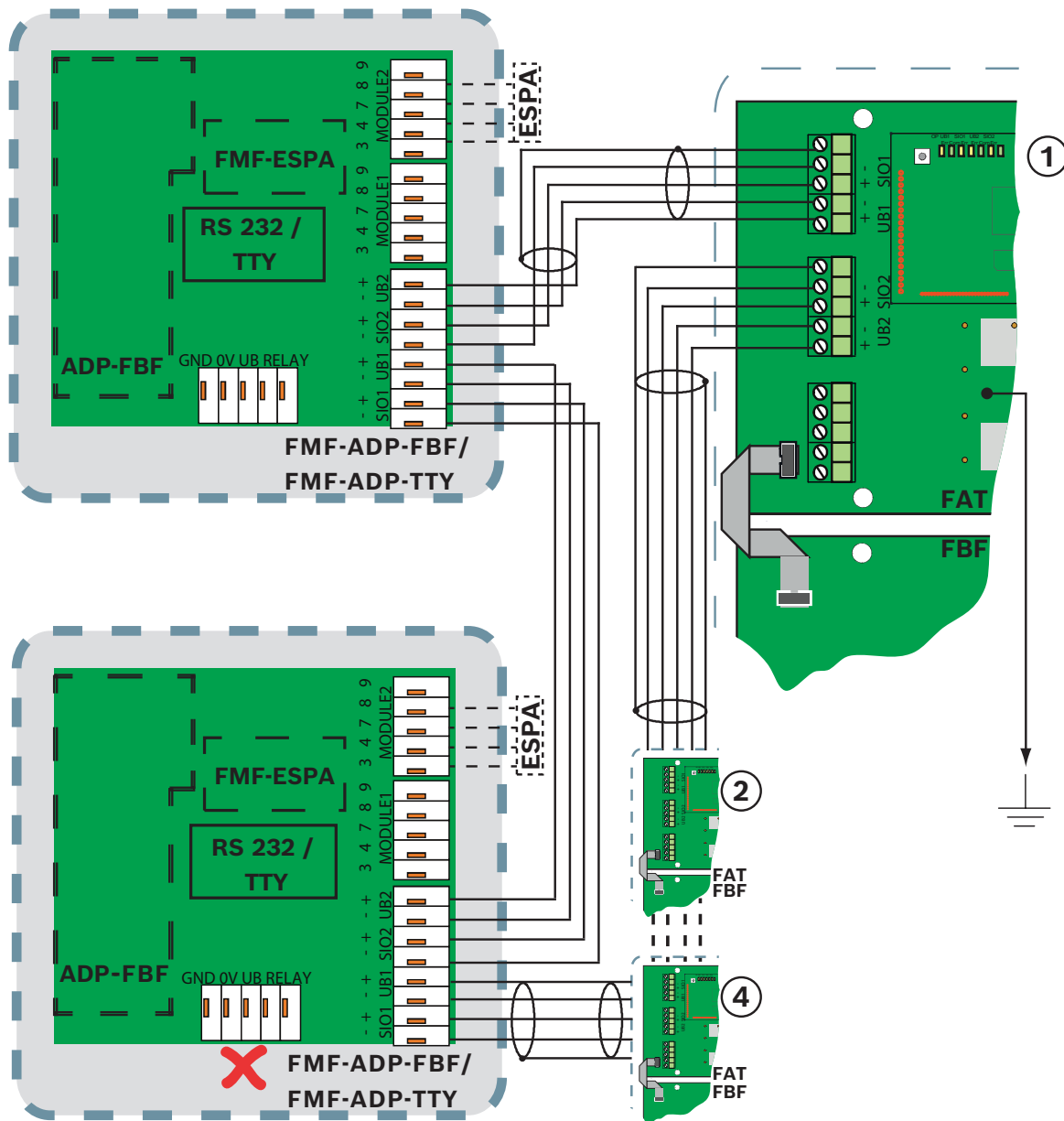
2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS



2.6

EOL



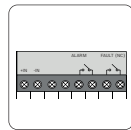
CZM 0004 A, página 189

LSN 0300 A, página 201

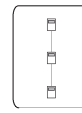
FLM-420/4-CON-S/D, página 246

2.6.1

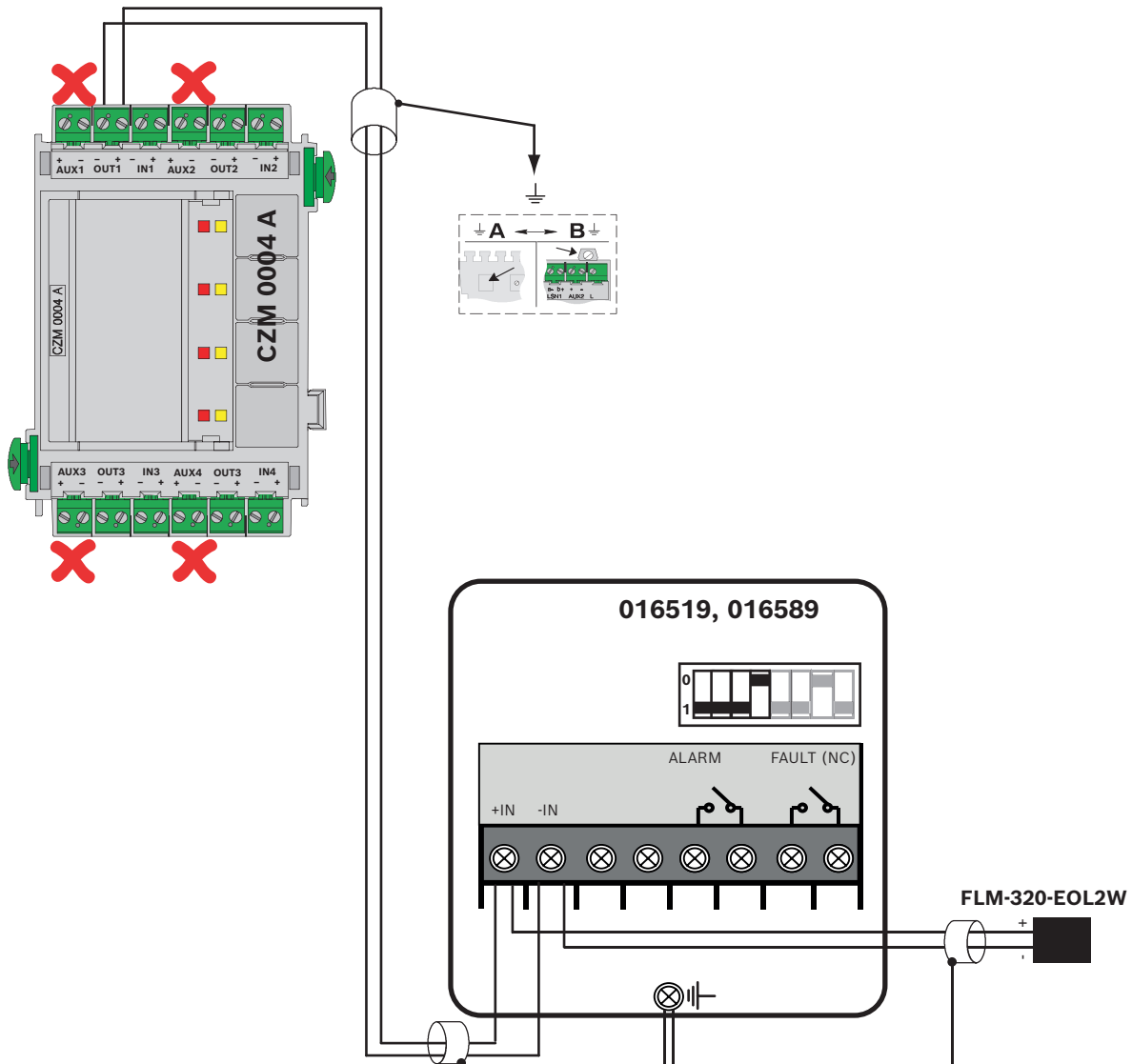
CZM 0004 A

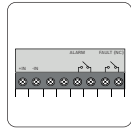


016519, 016589
IR3 Flame Detector

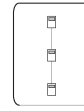


ELS

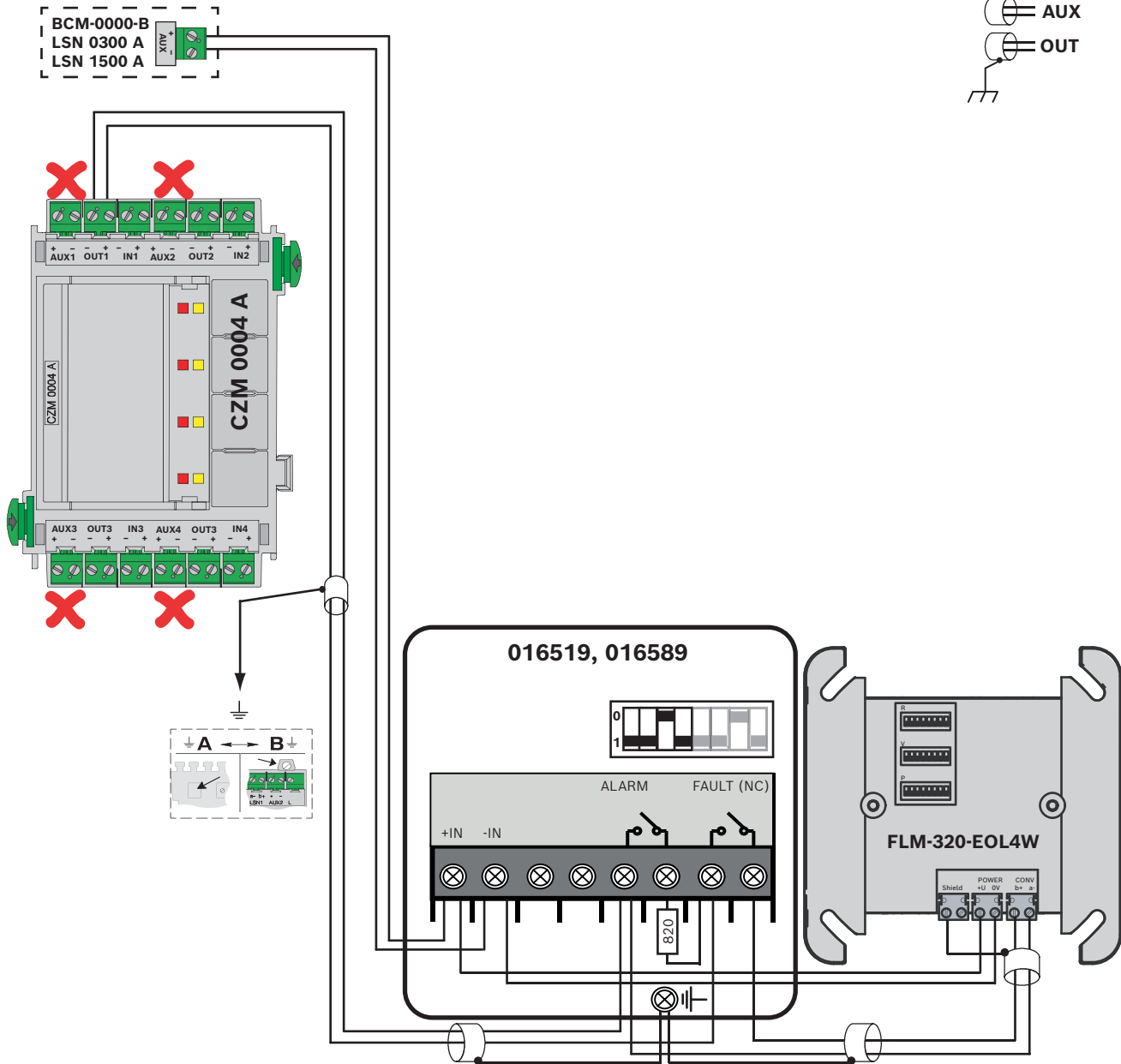




016519, 016589
IR3 Flame Detector



ELS

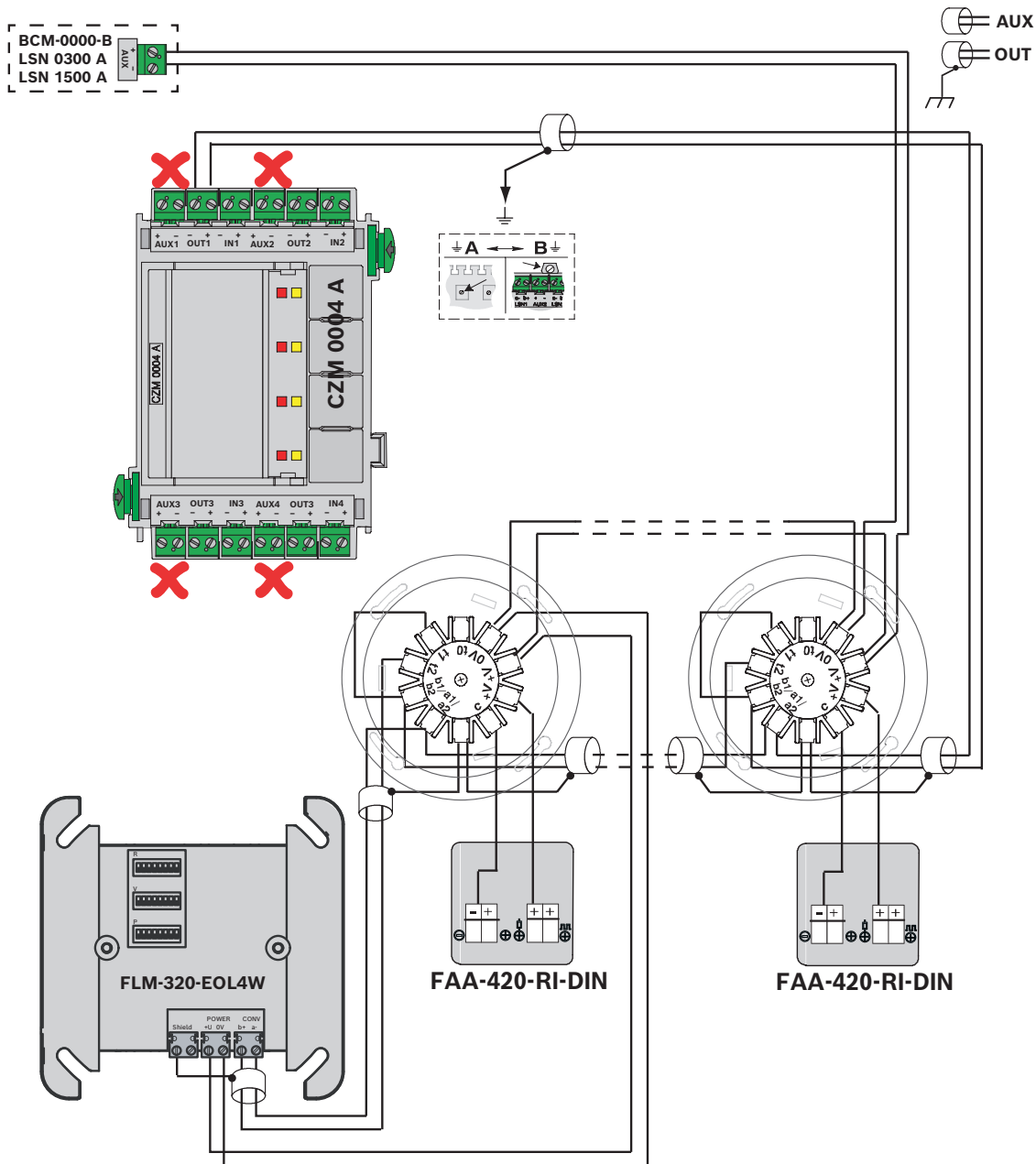


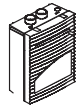


FCA-500-EU
FCP-O 500
FCP-O 500-P
FCP-OC 500
FCP-OC 500-P

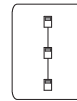


ELS



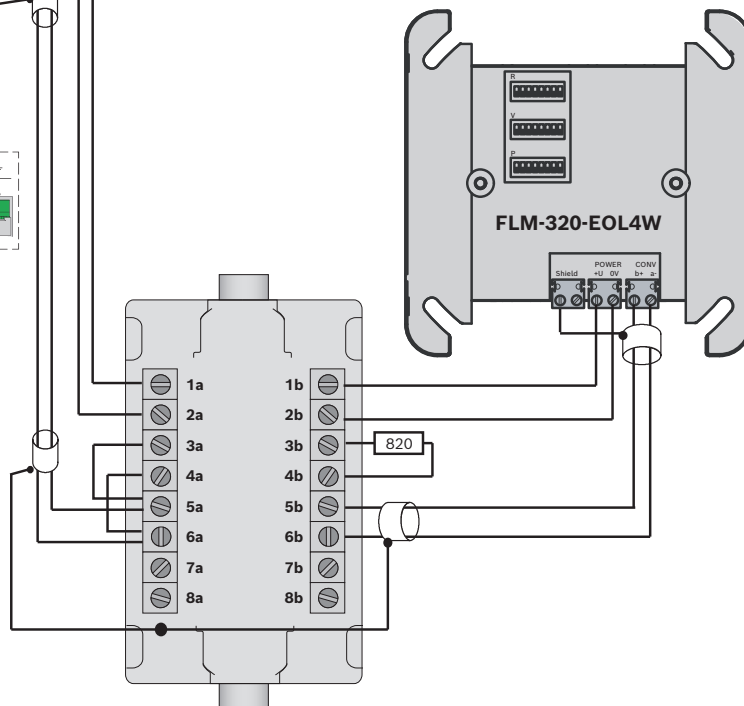
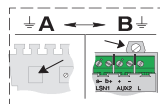
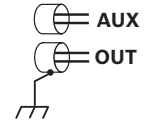
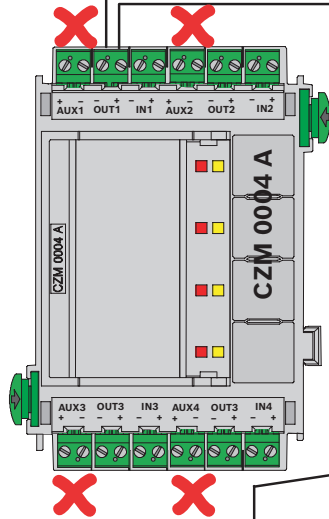


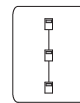
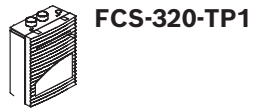
FCS-320-TM Series



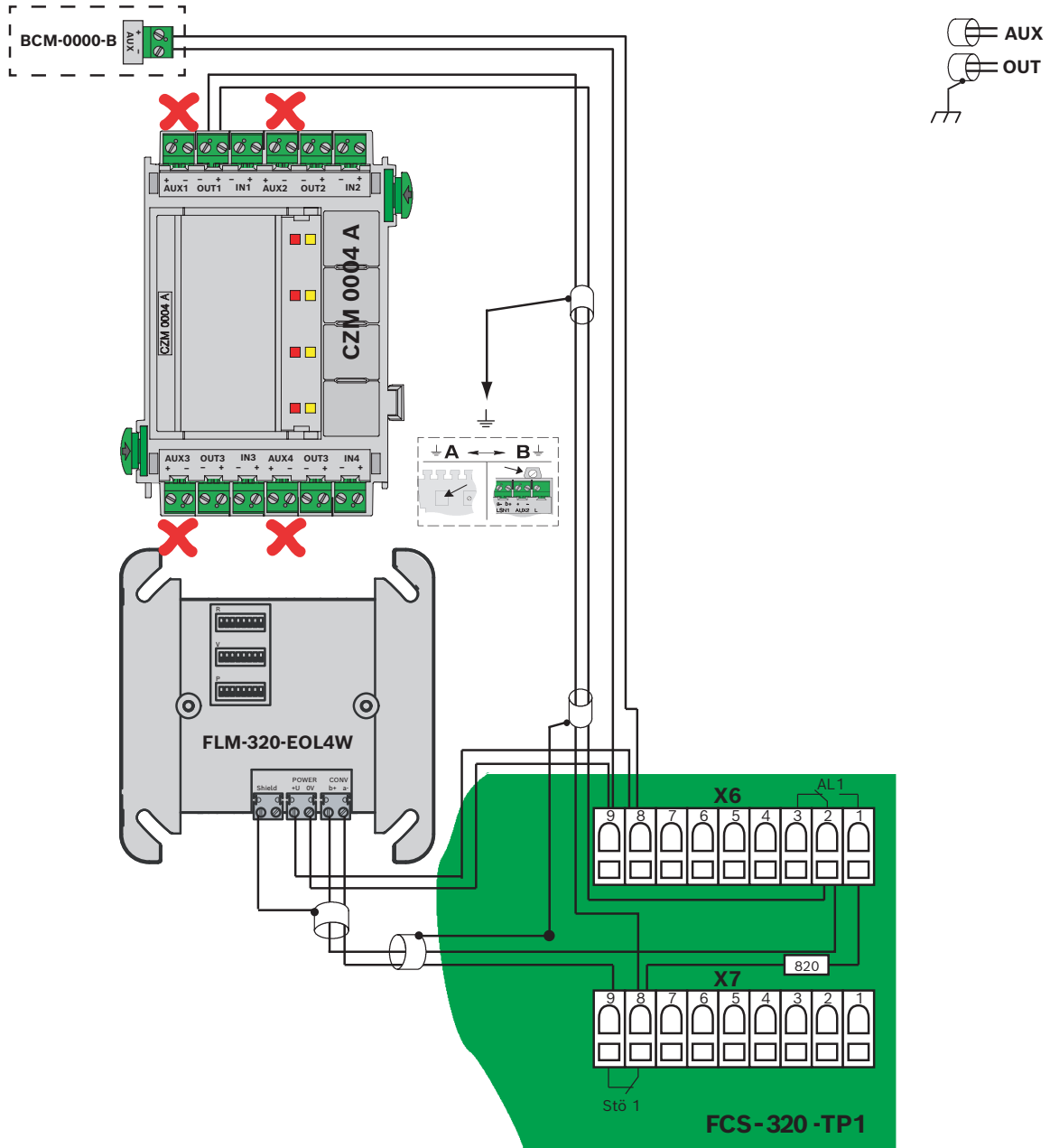
ELS

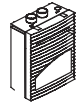
BCM-0000-B
LSN 0300 A
LSN 1500 A





ELS

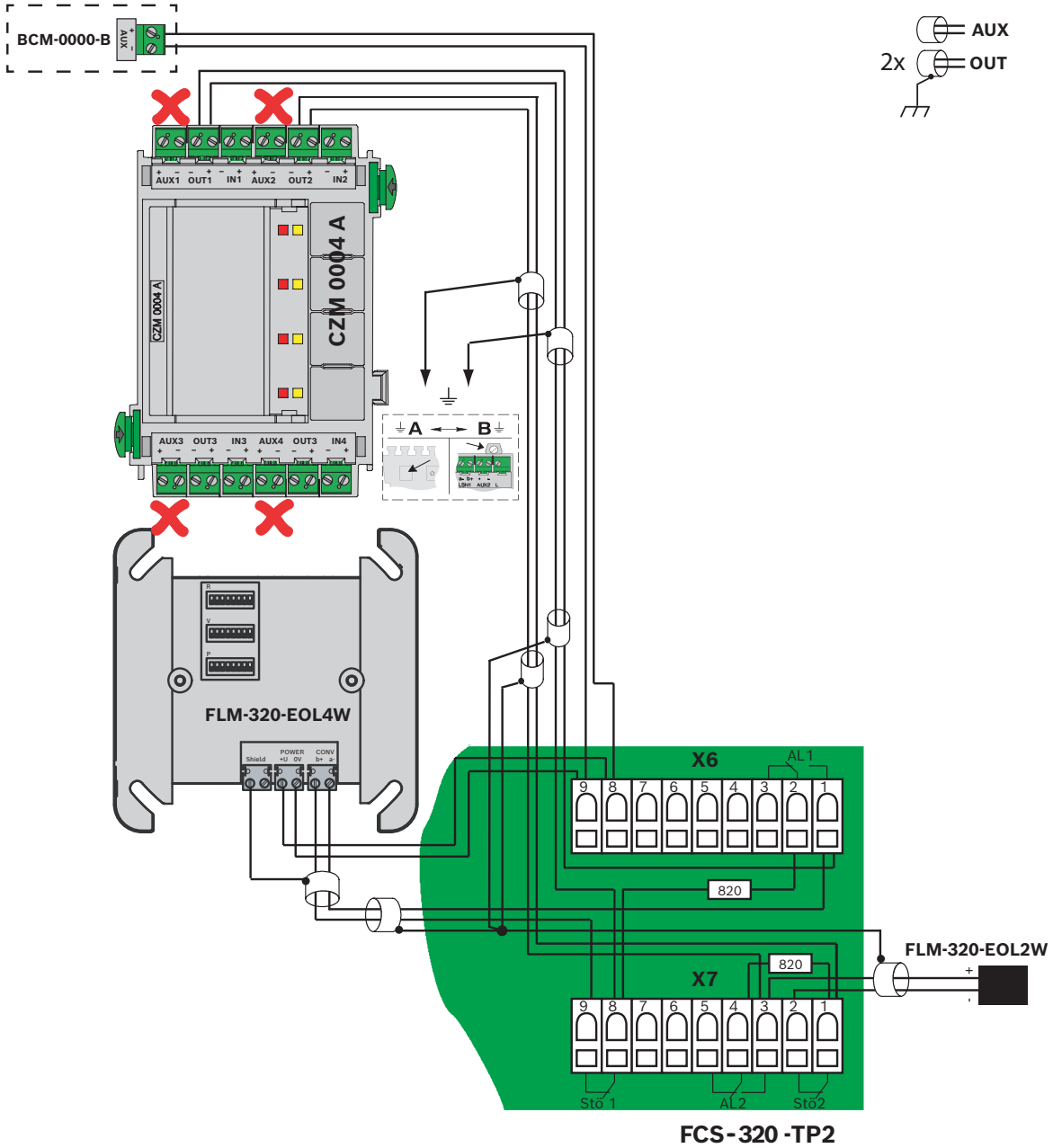




FCS-320-TP2



ELS





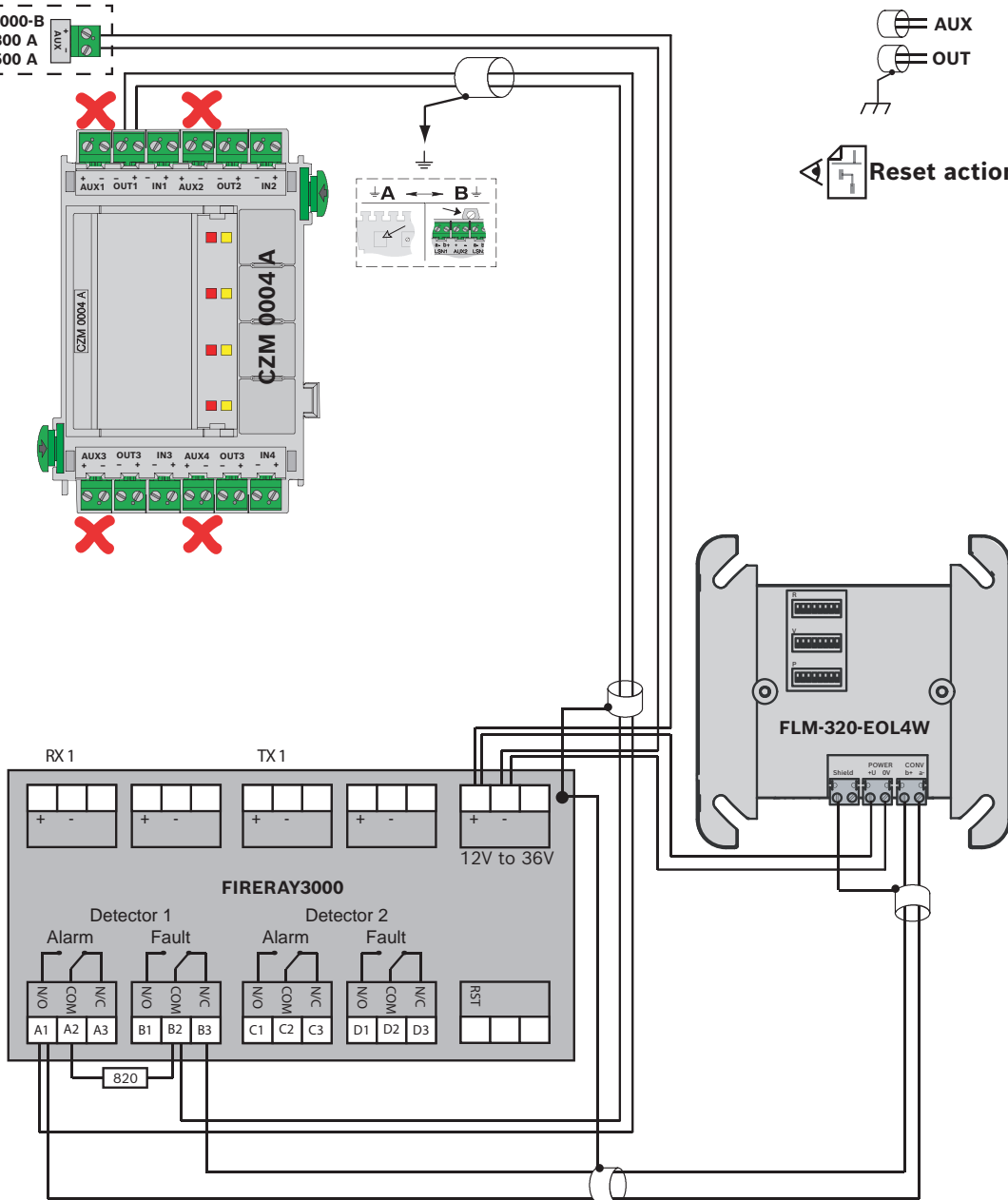
FIRERAY3000

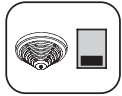
1 x



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A





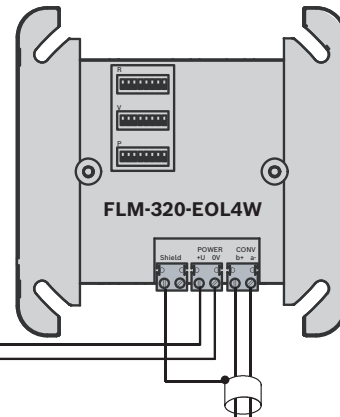
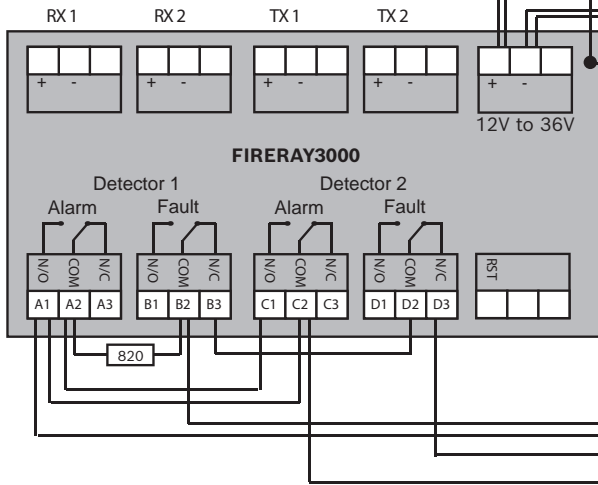
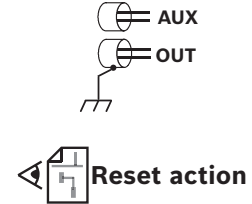
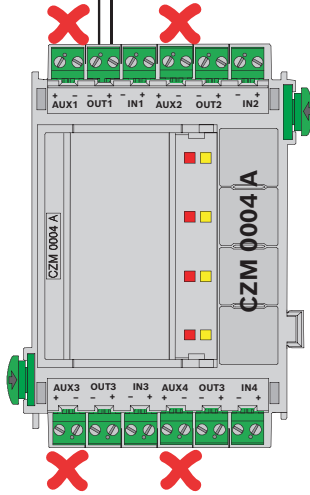
FIRERAY3000

2 x  **OUT1**



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



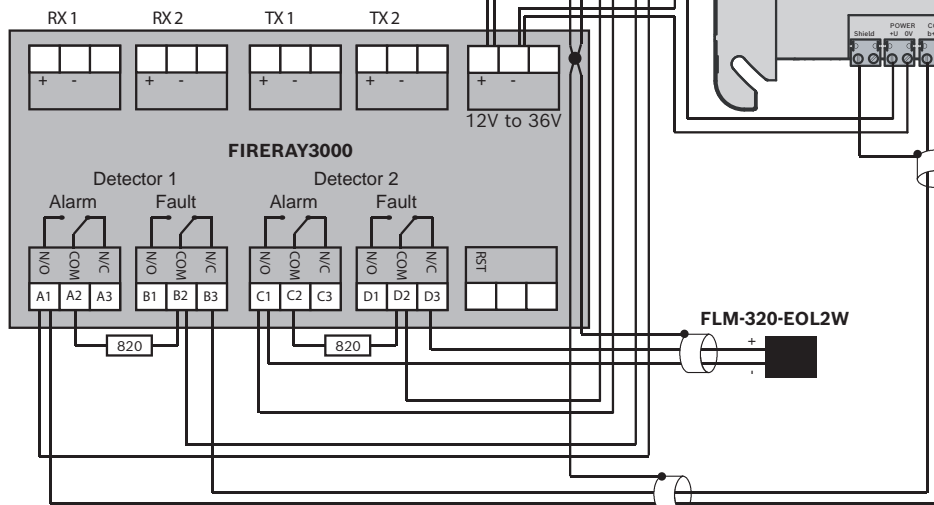
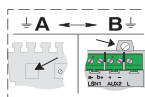
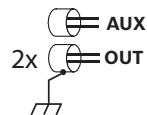
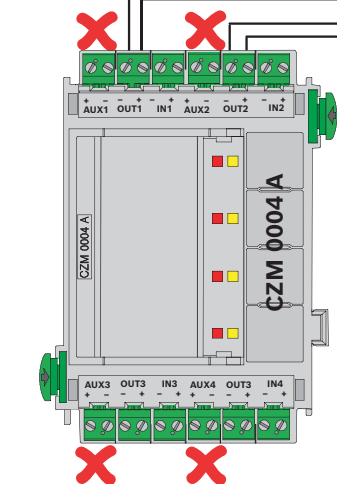


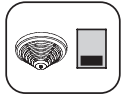
FIRERAY3000
2 x **OUT1+2**



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



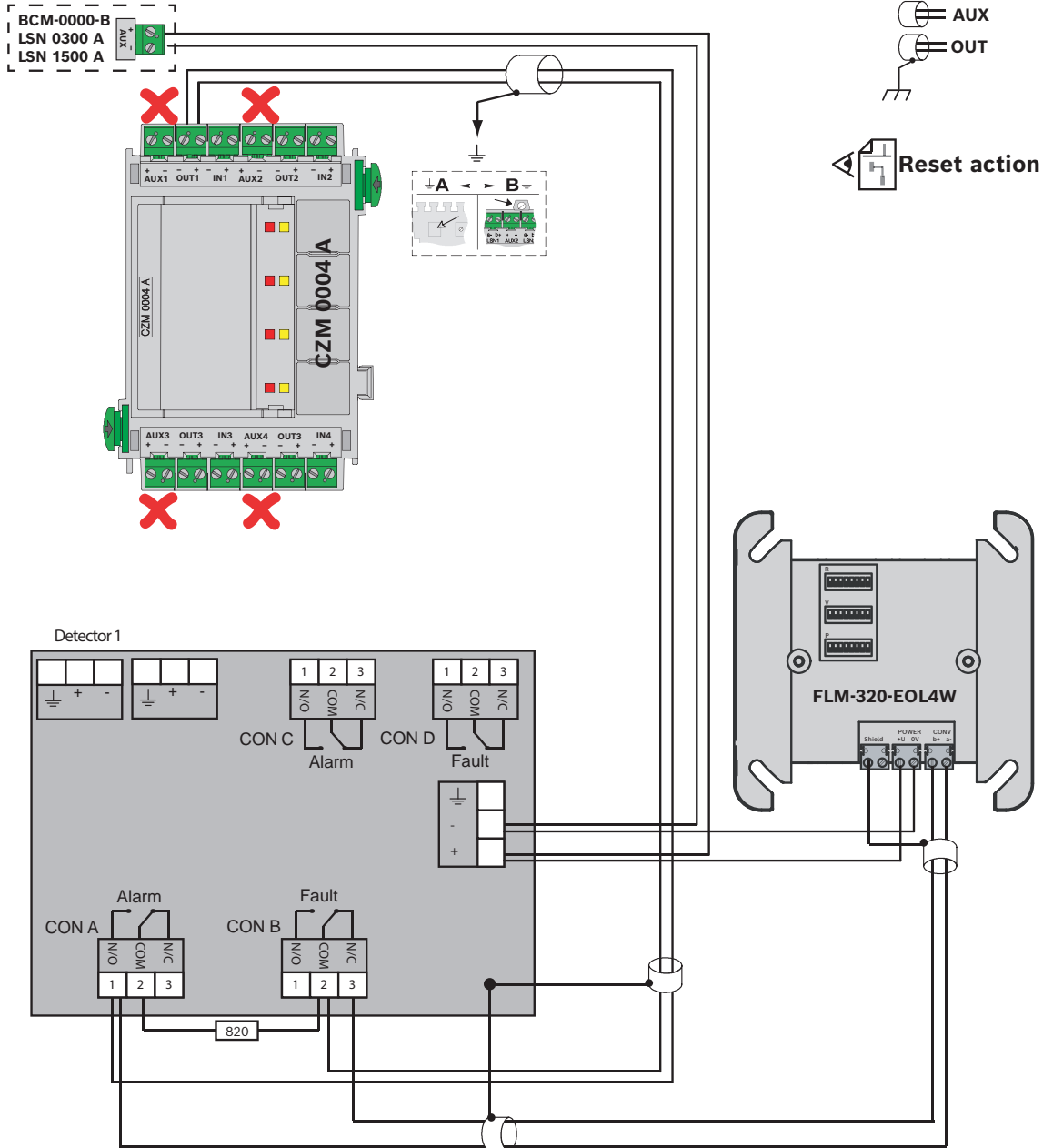


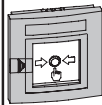
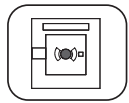
FIRERAY5000

1 x

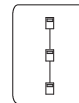


ELS

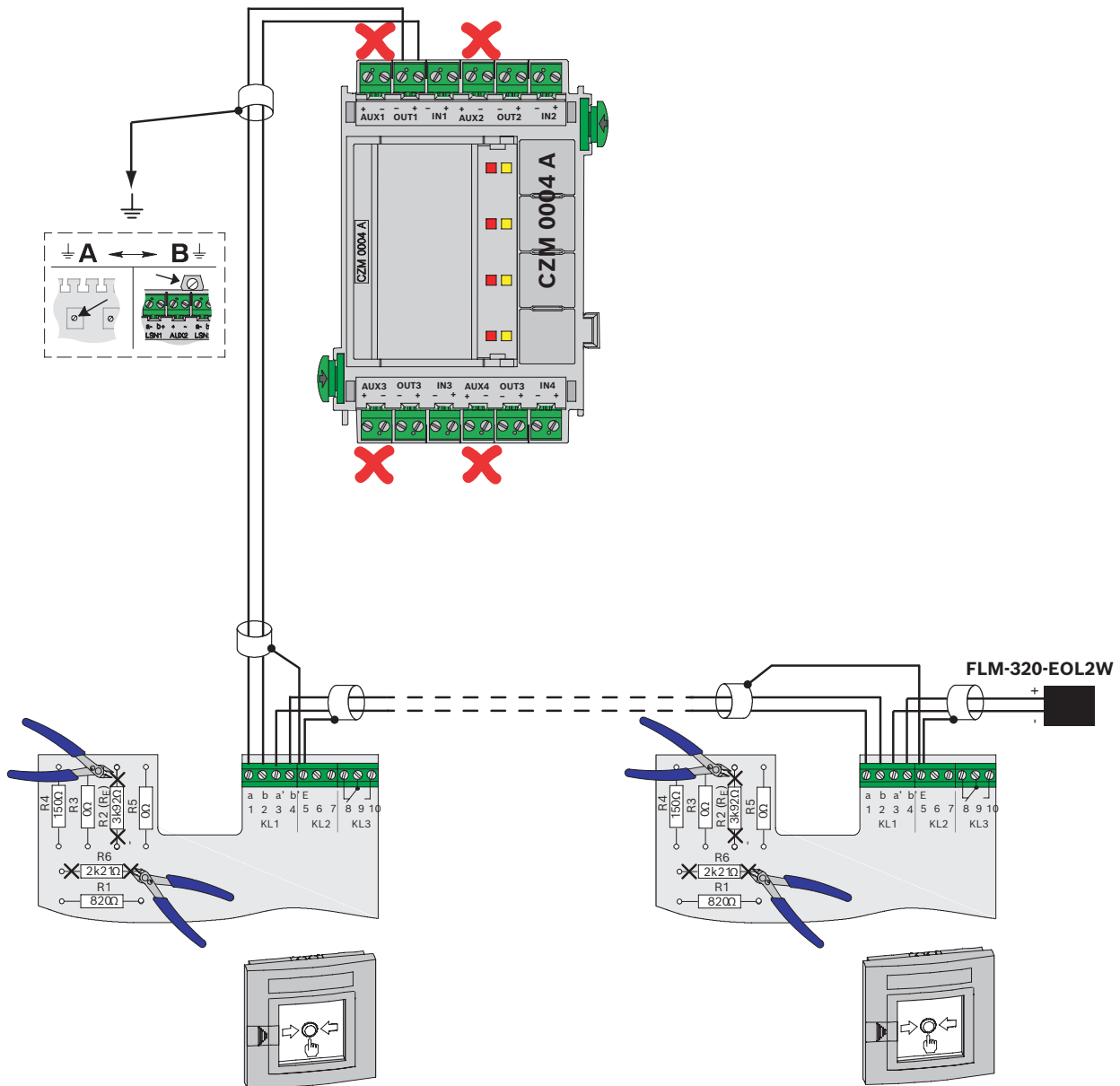


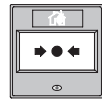
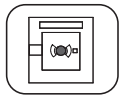


FMC-120-DKM-G-R
 FMC-120-DKM-H-R
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B
 FMC-120-DKM-G-Y



ELS

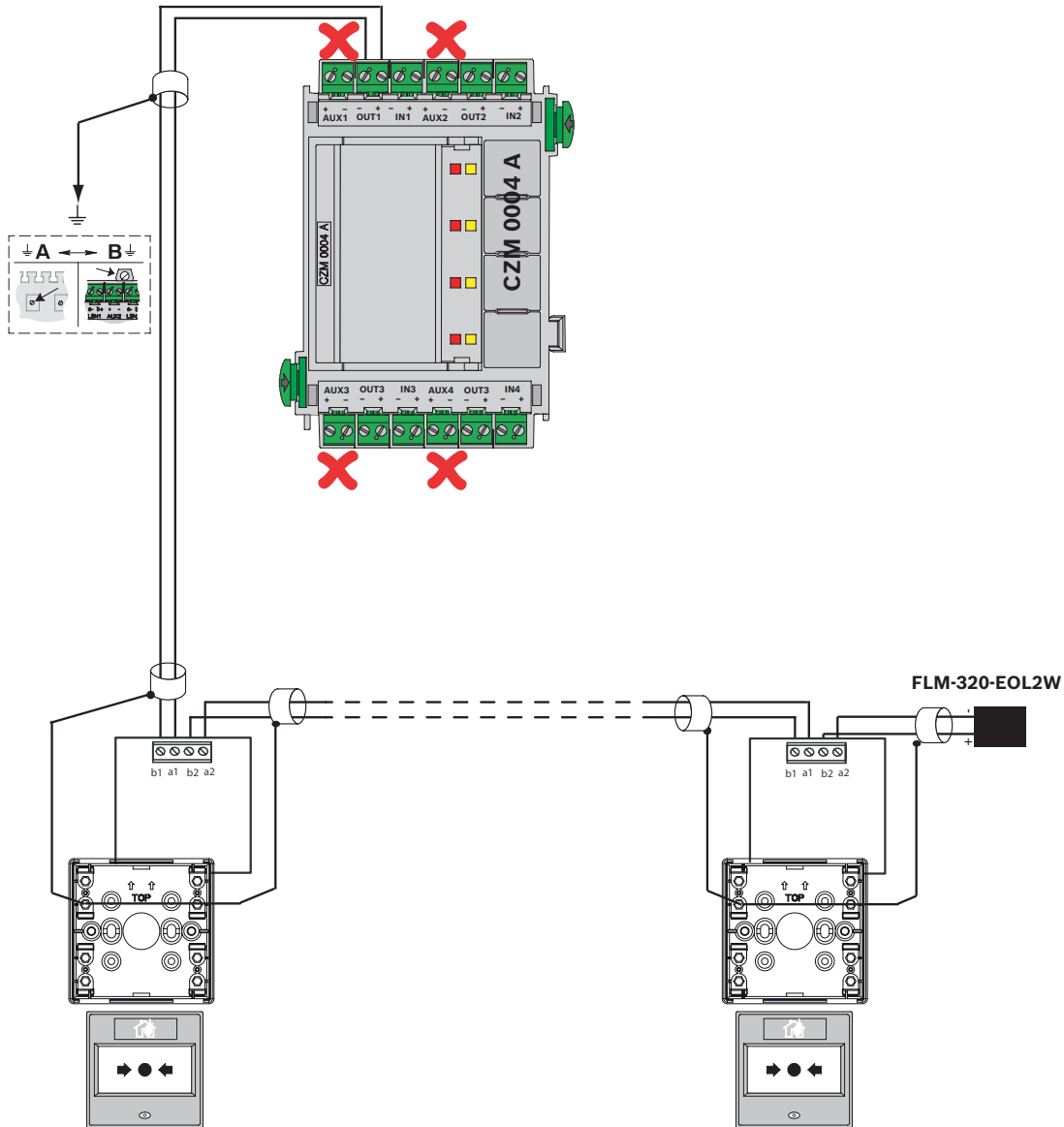




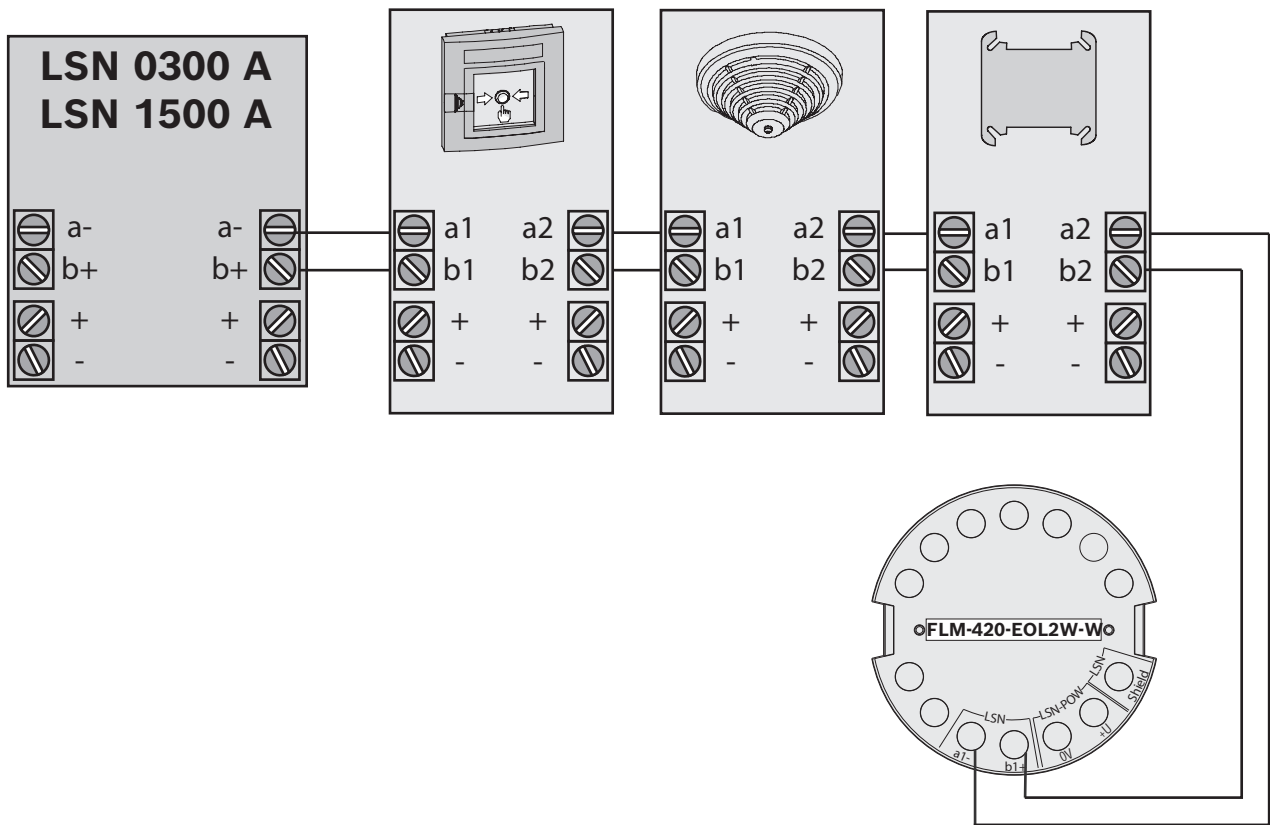
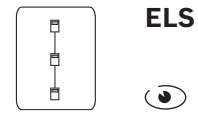
FMC-300RW-GSGBU
 FMC-300RW-GSRBU
 FMC-300RW-GSGRD
 FMC-300RW-GSRRD
 FMC-300RW-GSGYE
 FMC-300RW-GSRYE

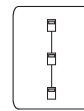


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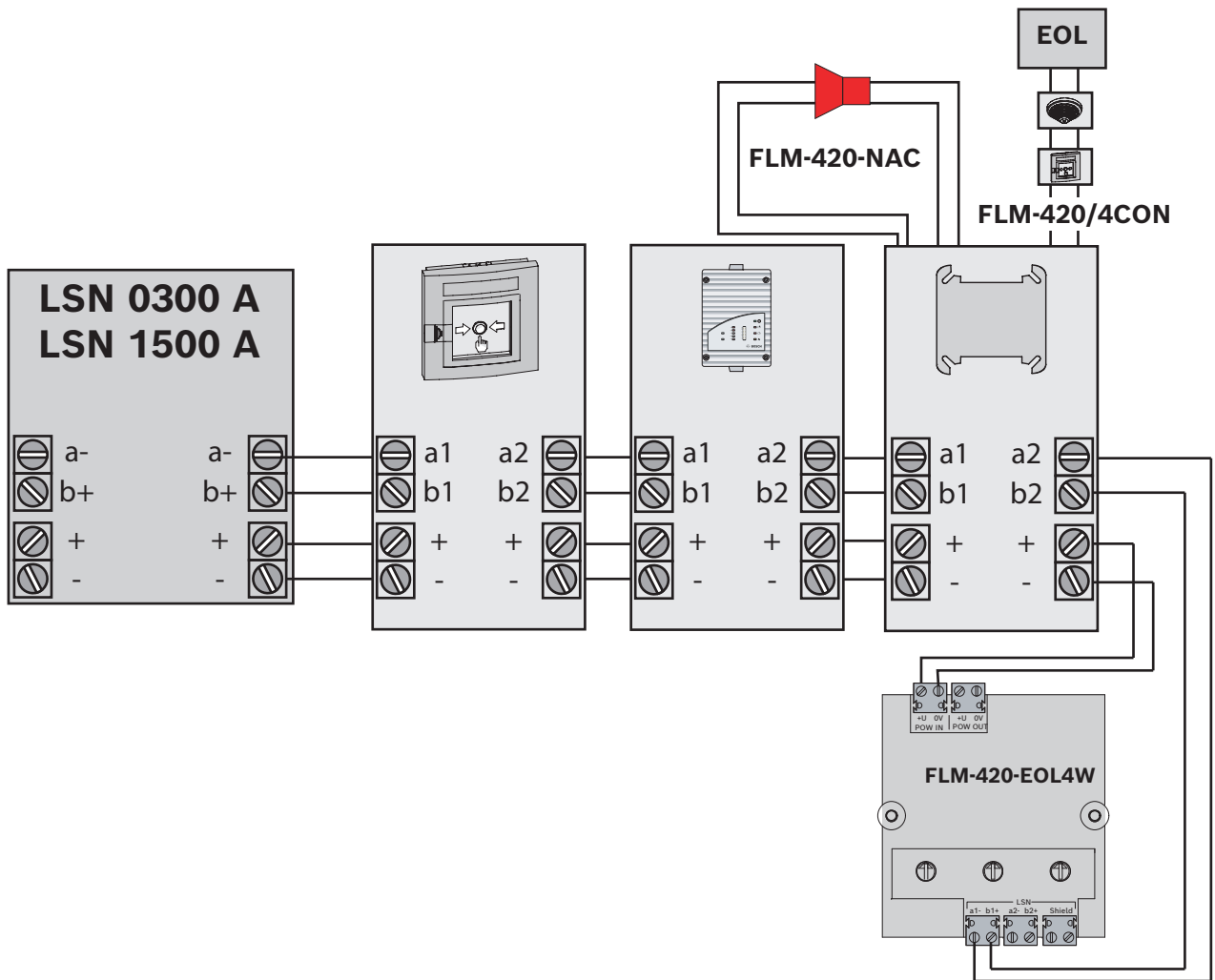


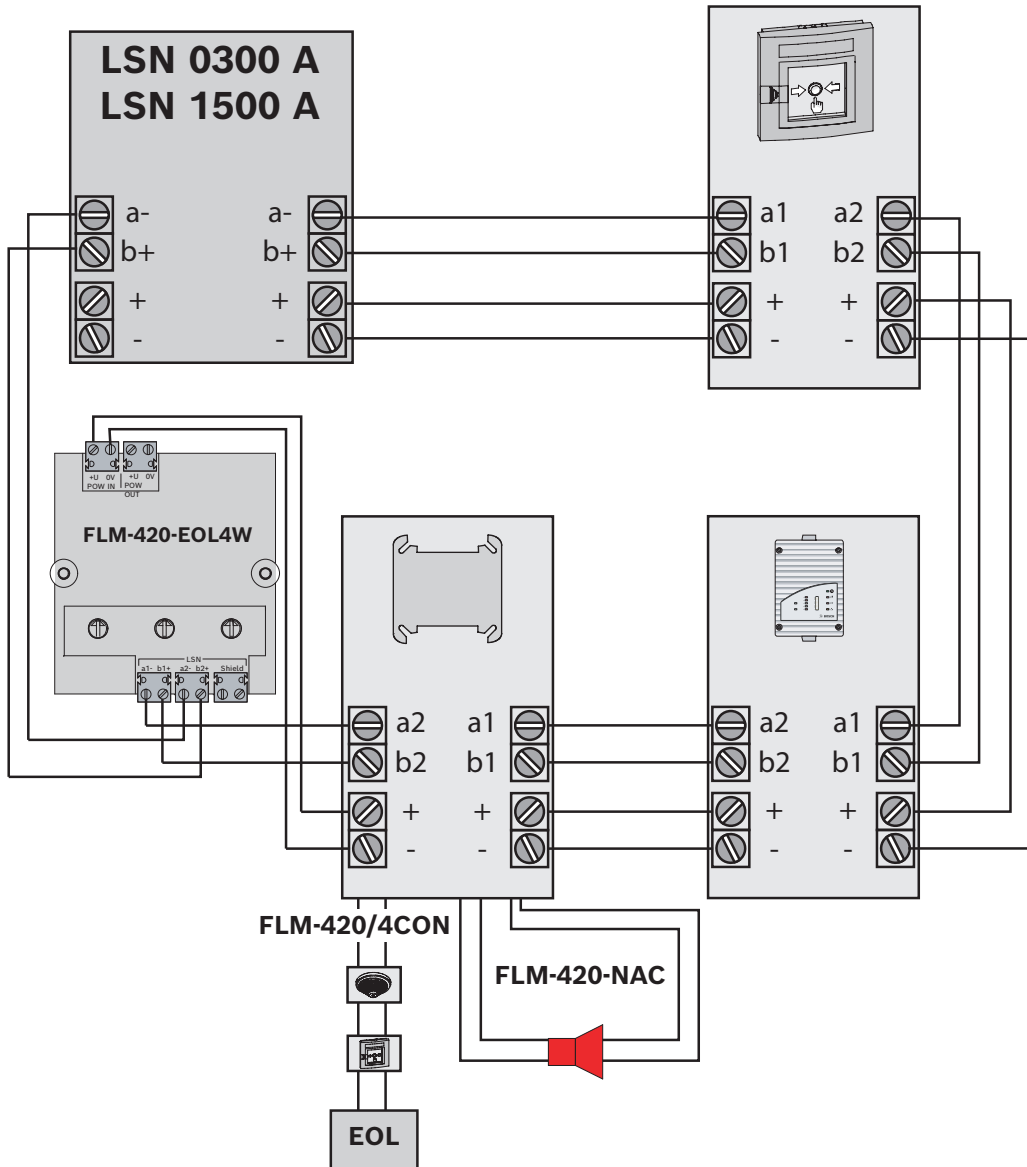
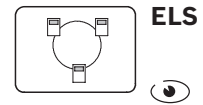
2.6.2 LSN 0300 A





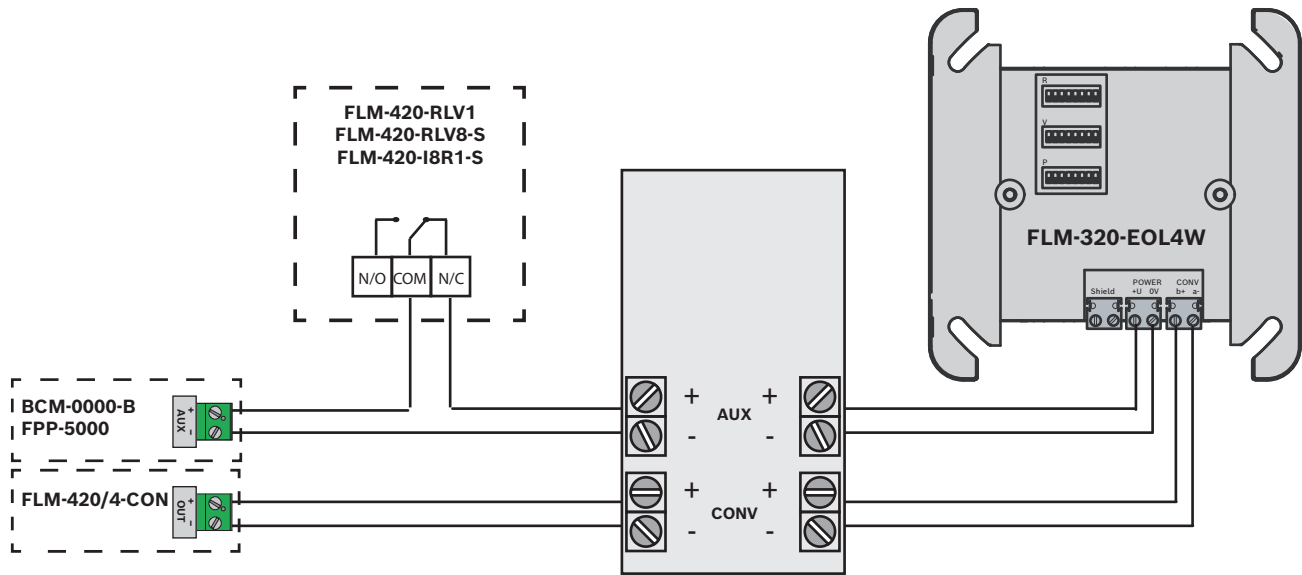
ELS

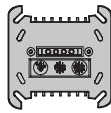
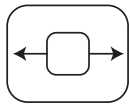




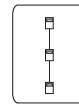
Reset action

ELS

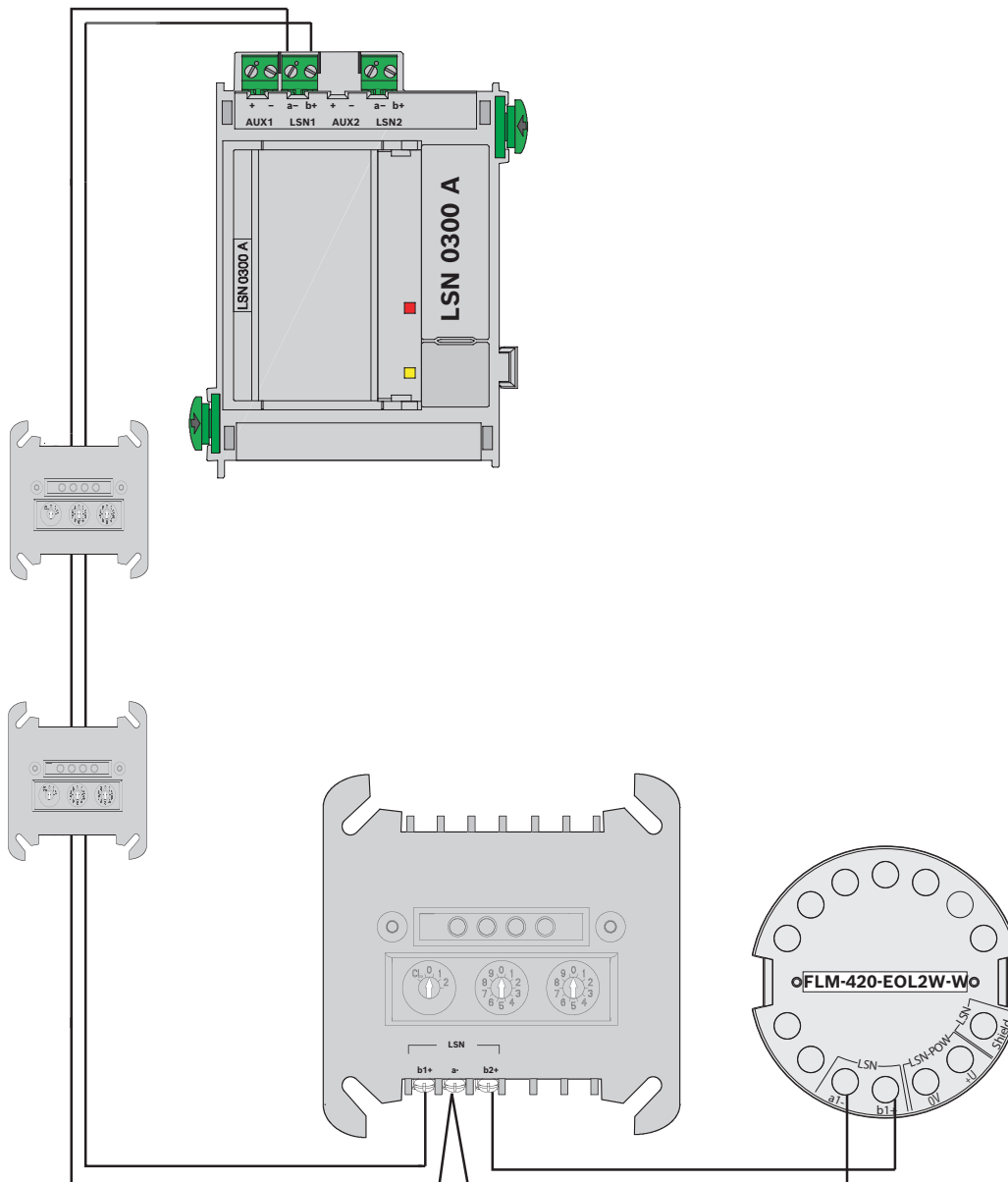


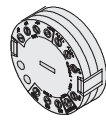
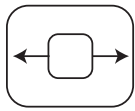


FLM-420-I2-D
 FLM-420-O111-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

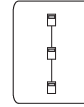


ELS

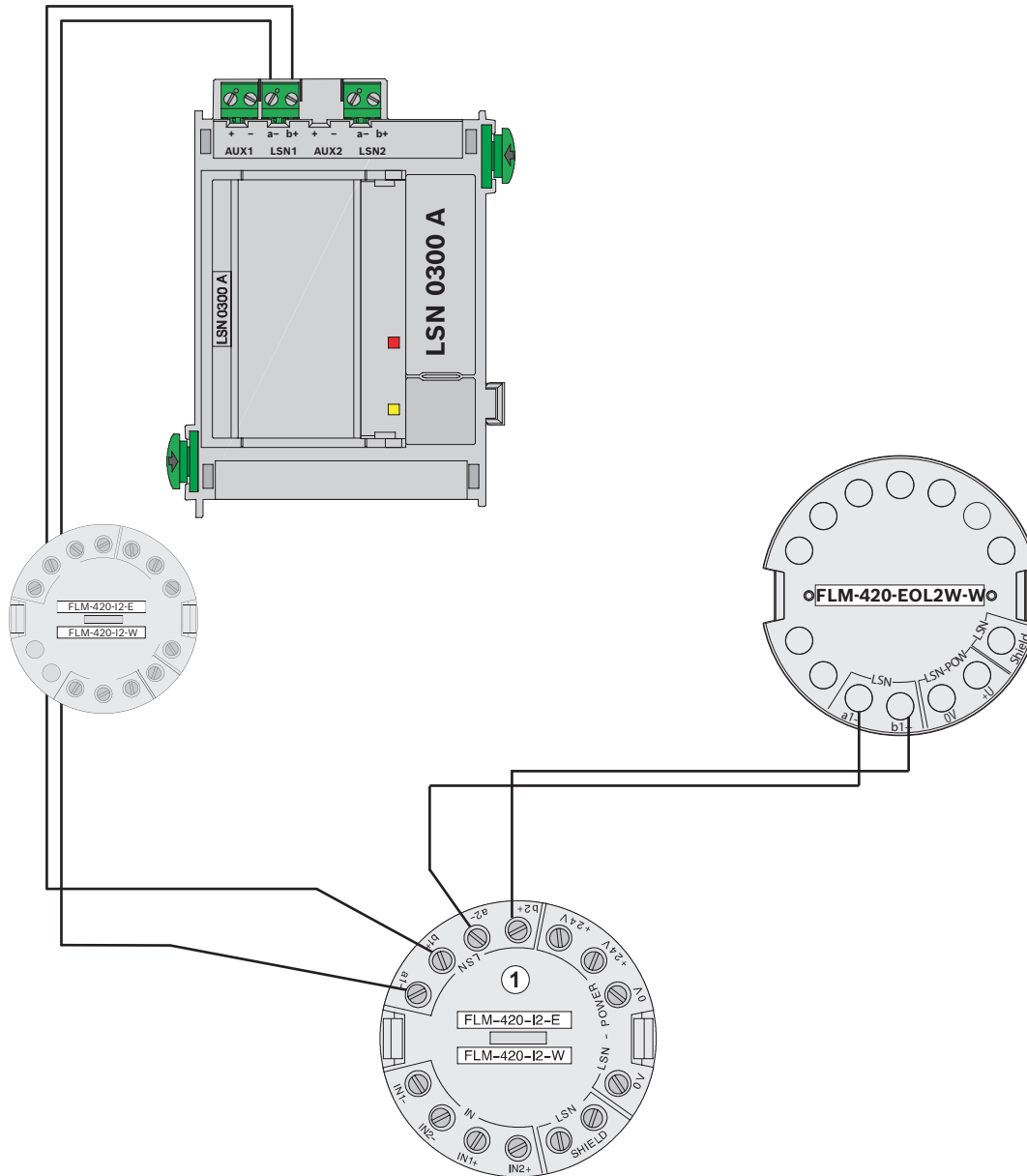


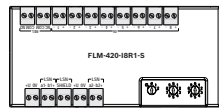
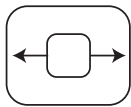


FLM-420-12-E/W

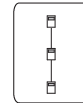


ELS

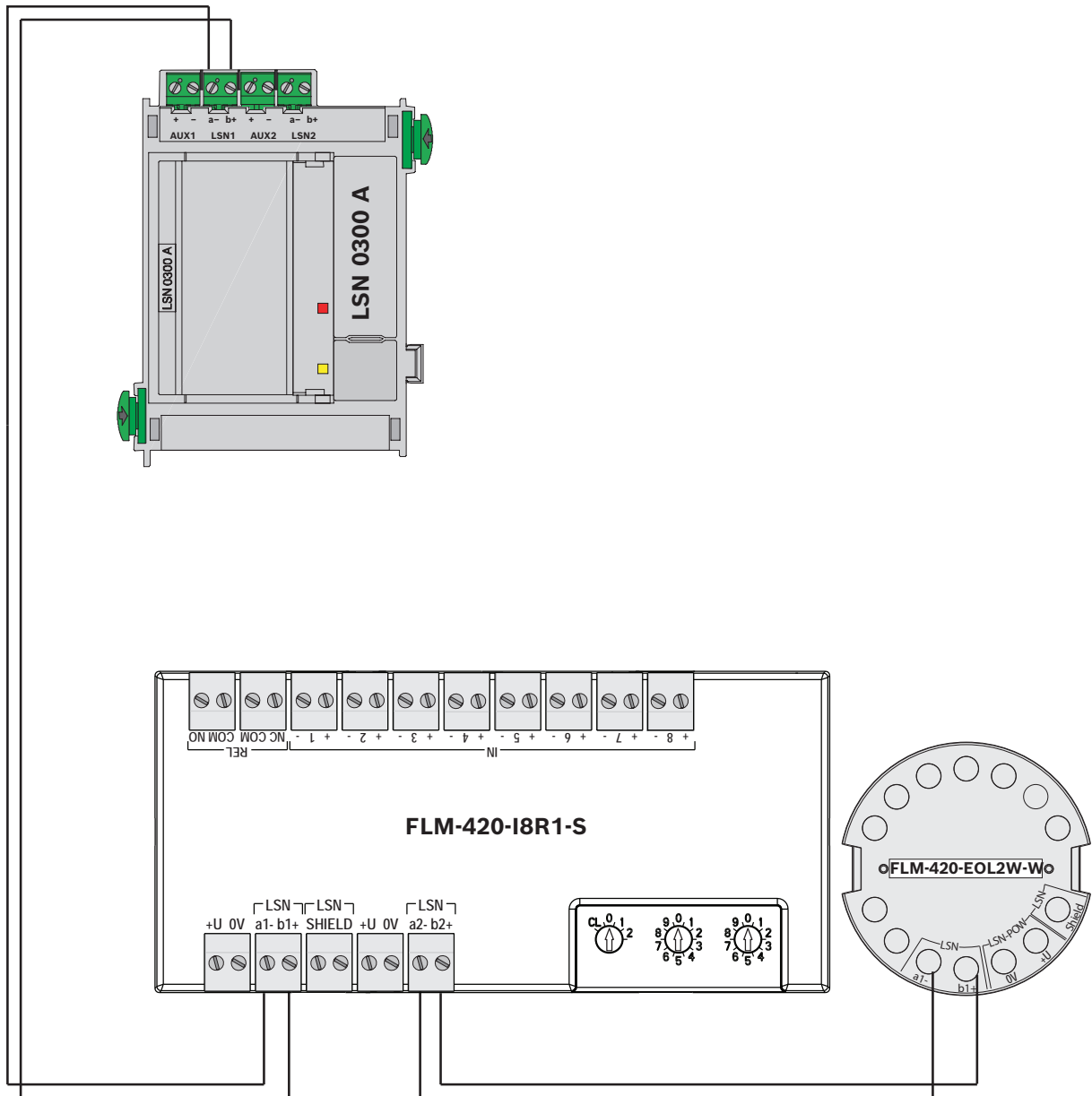


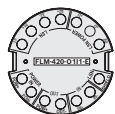
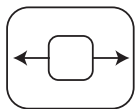


FLM-420-18R1-S

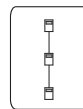


ELS

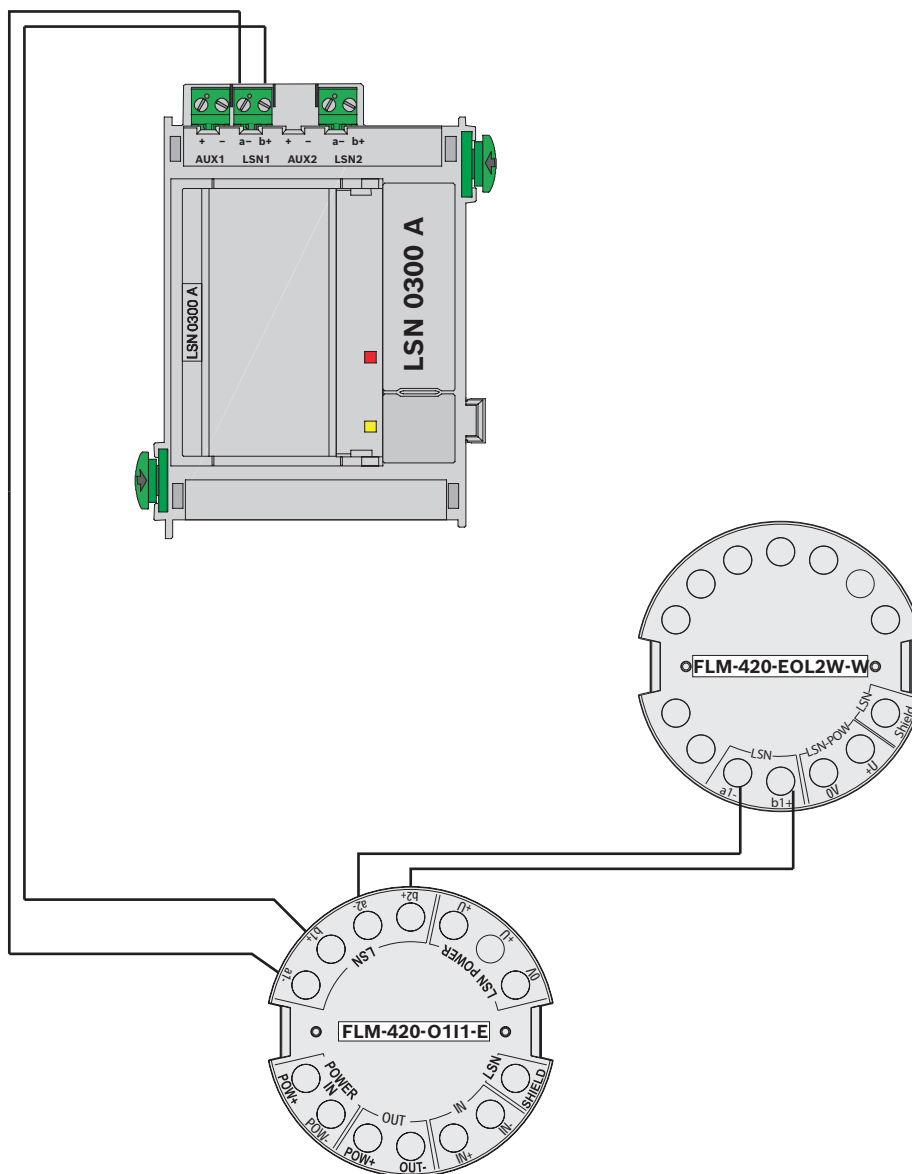


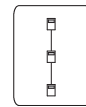
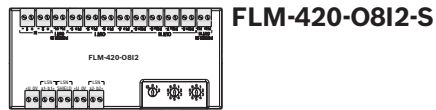
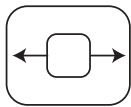


FLM-420-O1I1-E

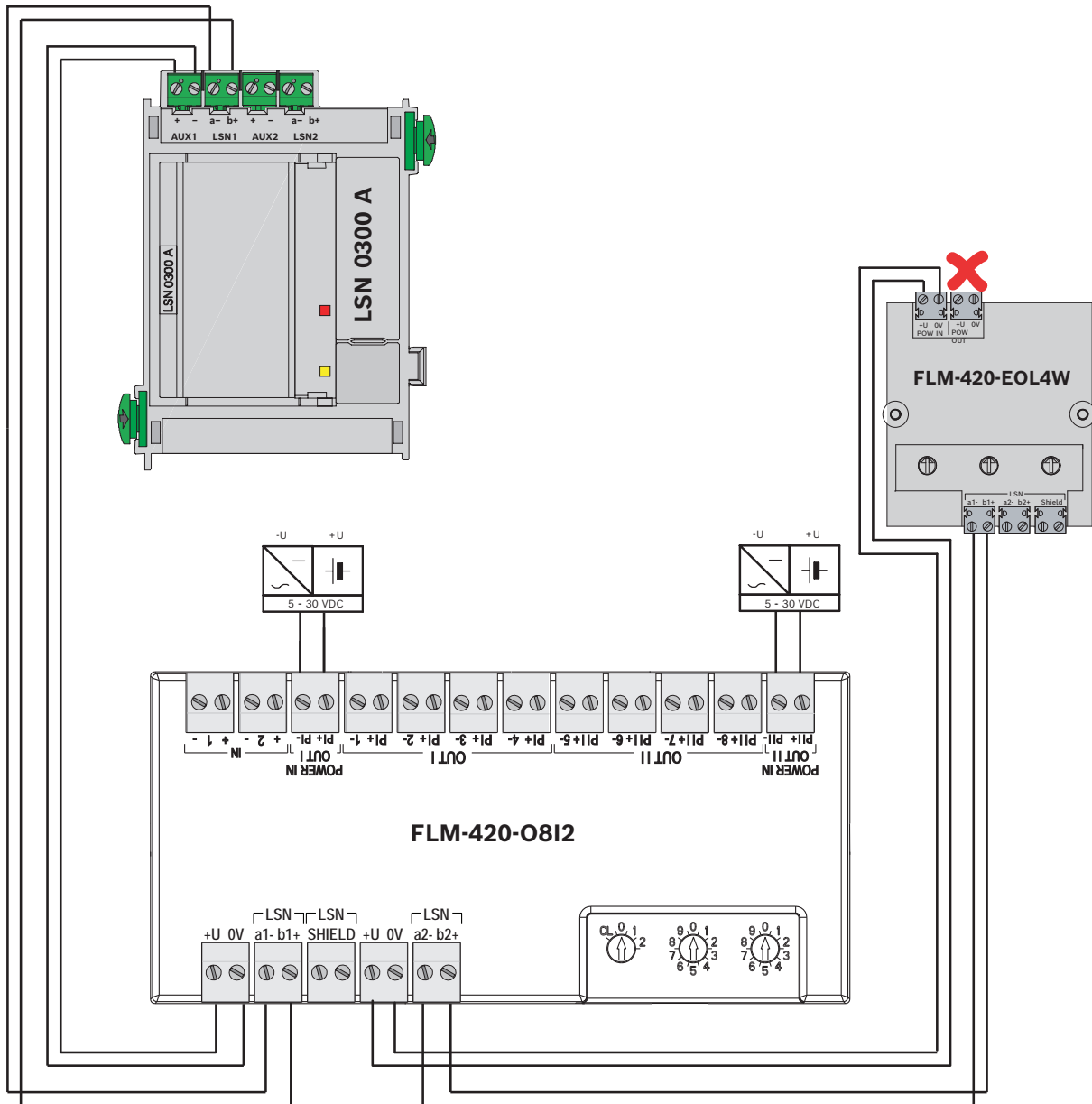


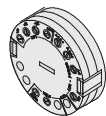
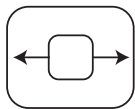
ELS



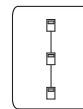


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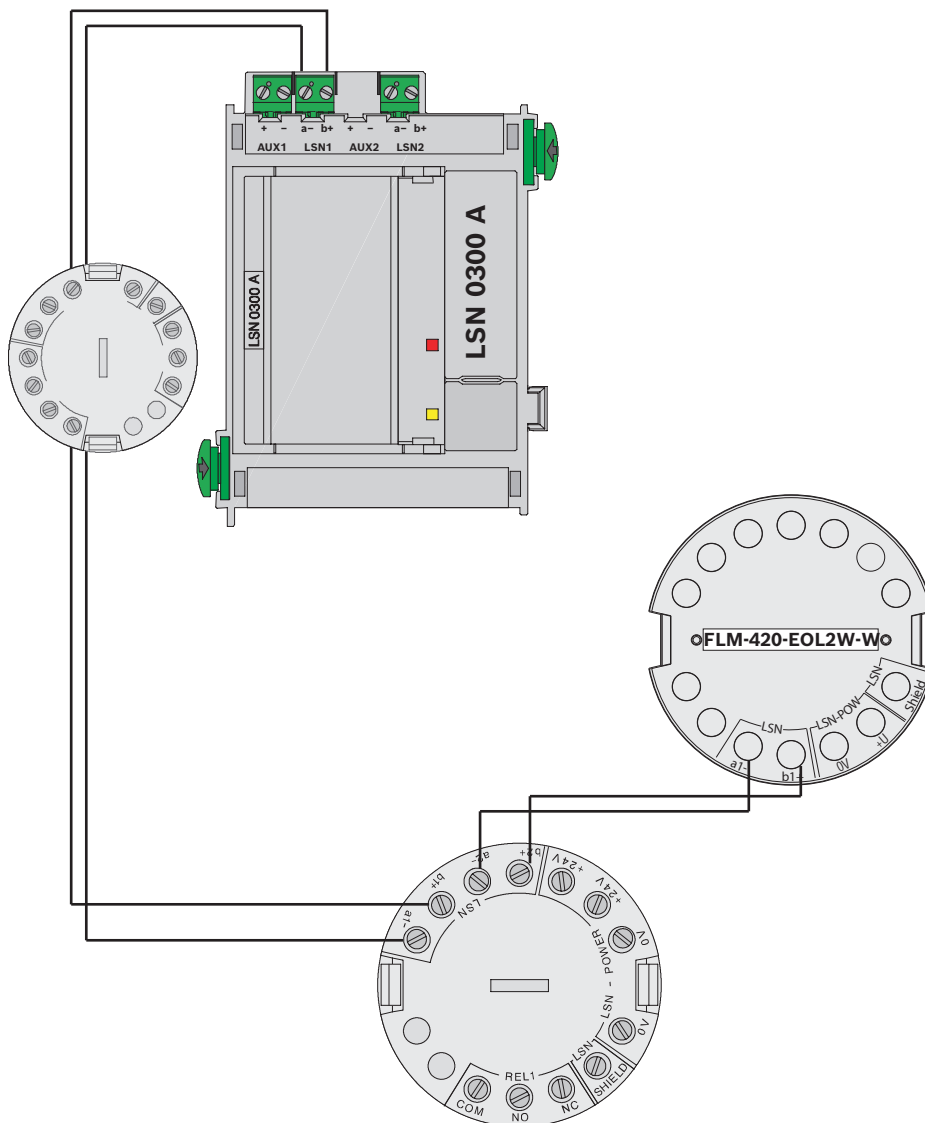


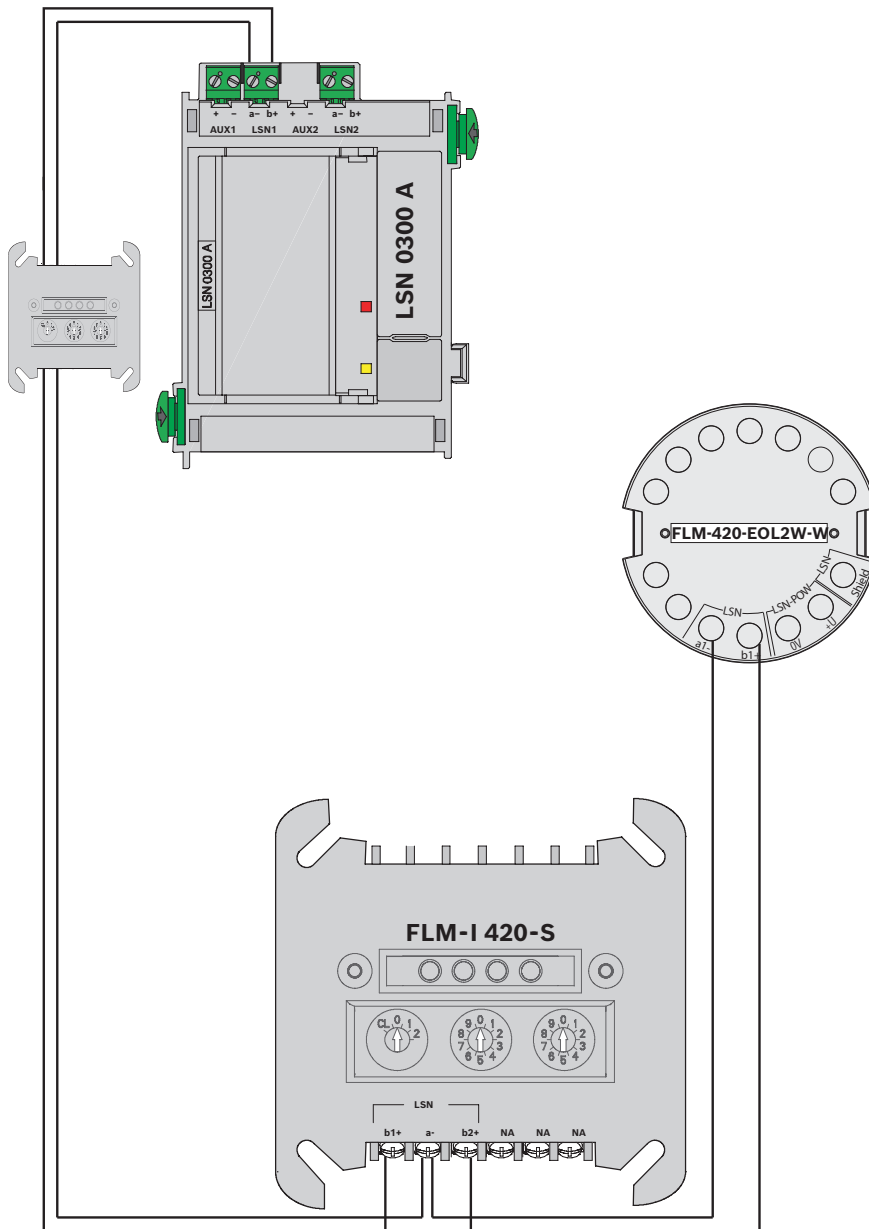
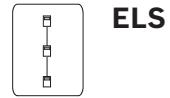
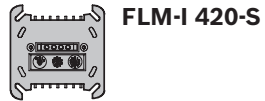
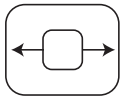


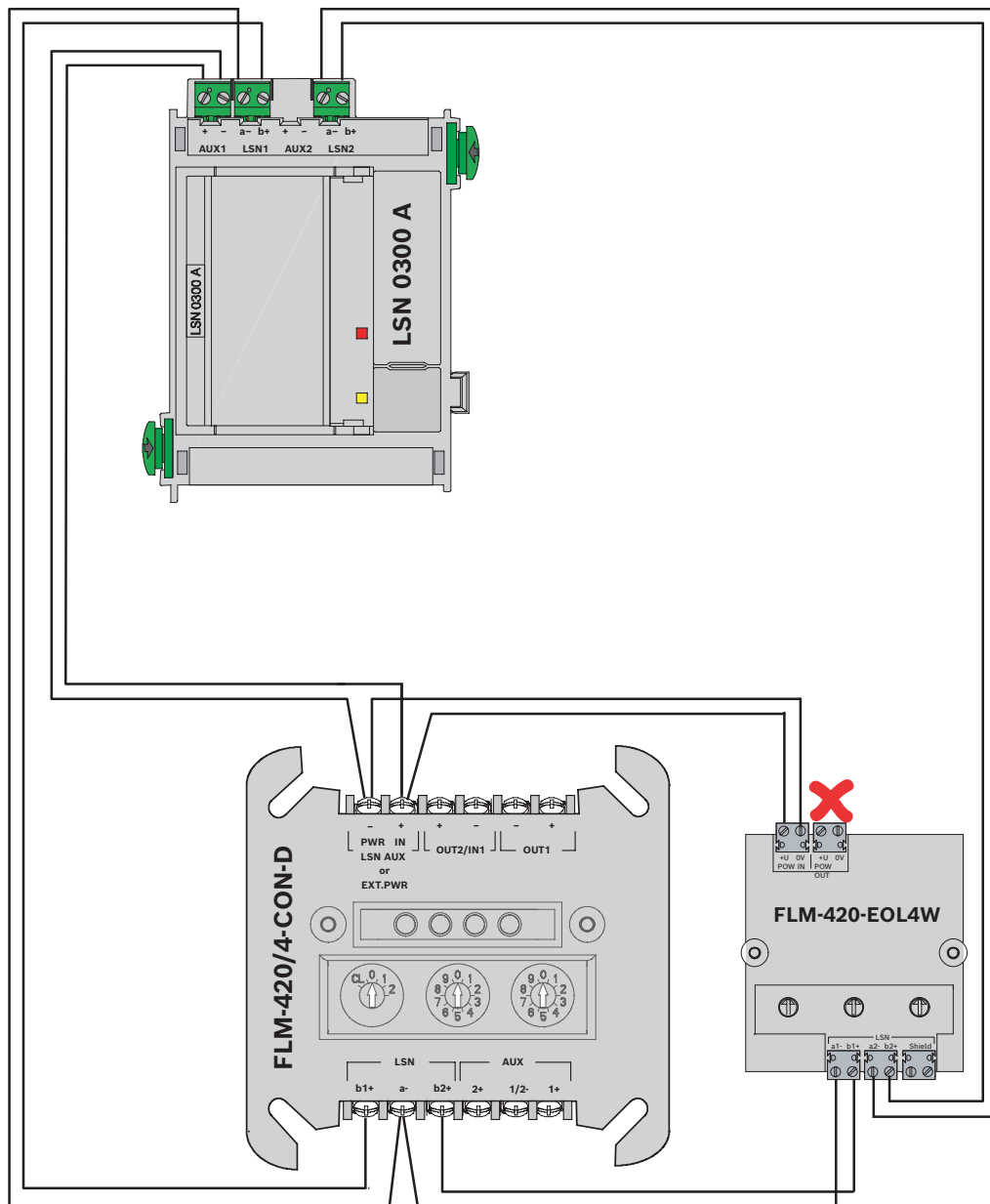
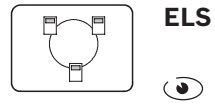
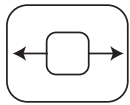
FLM-420-I2-E/-W
FLM-420-RLV1-E

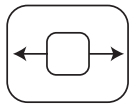


ELS

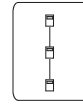




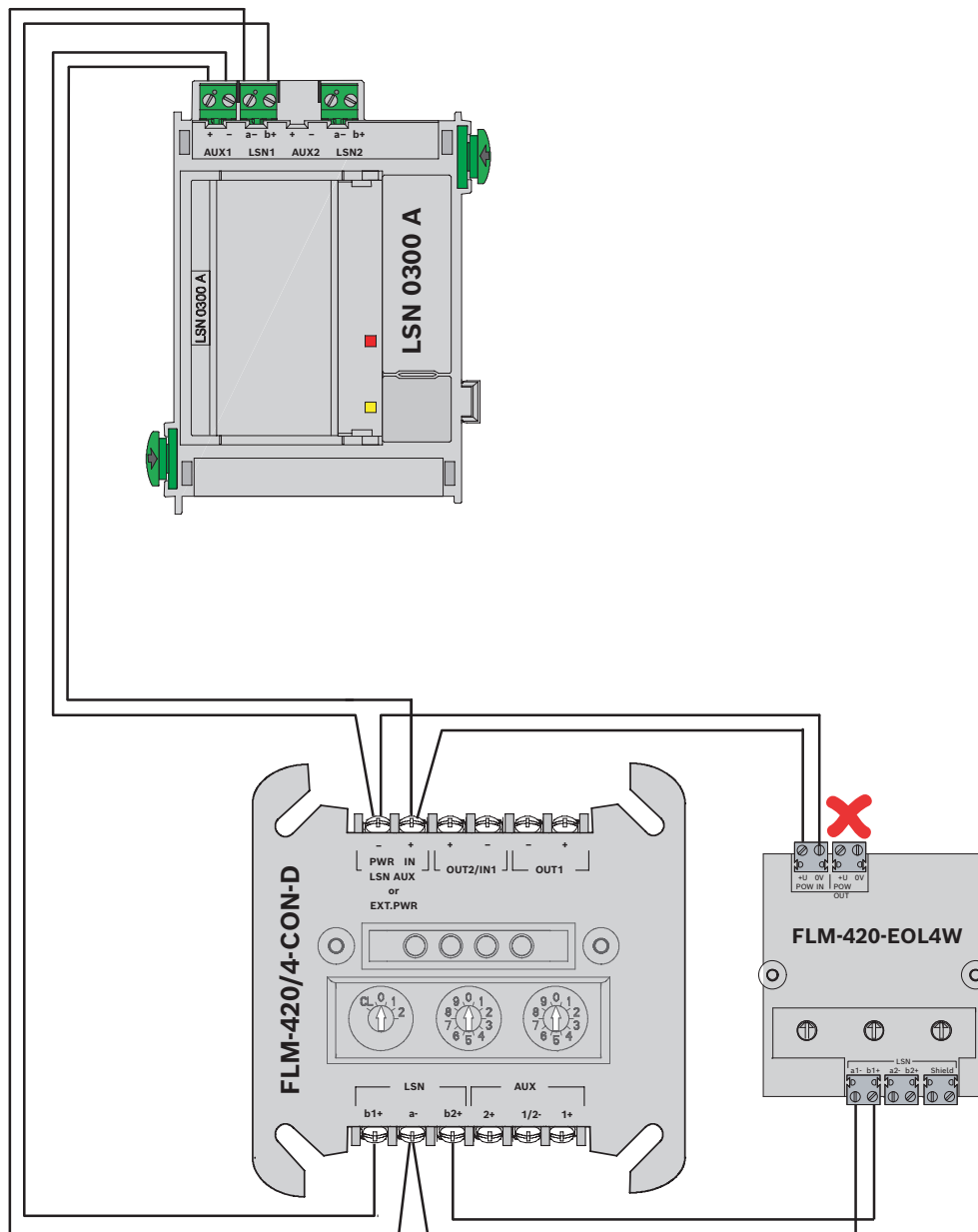


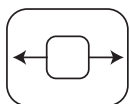


**FLM-420/
4-CON-D**

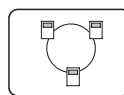


ELS

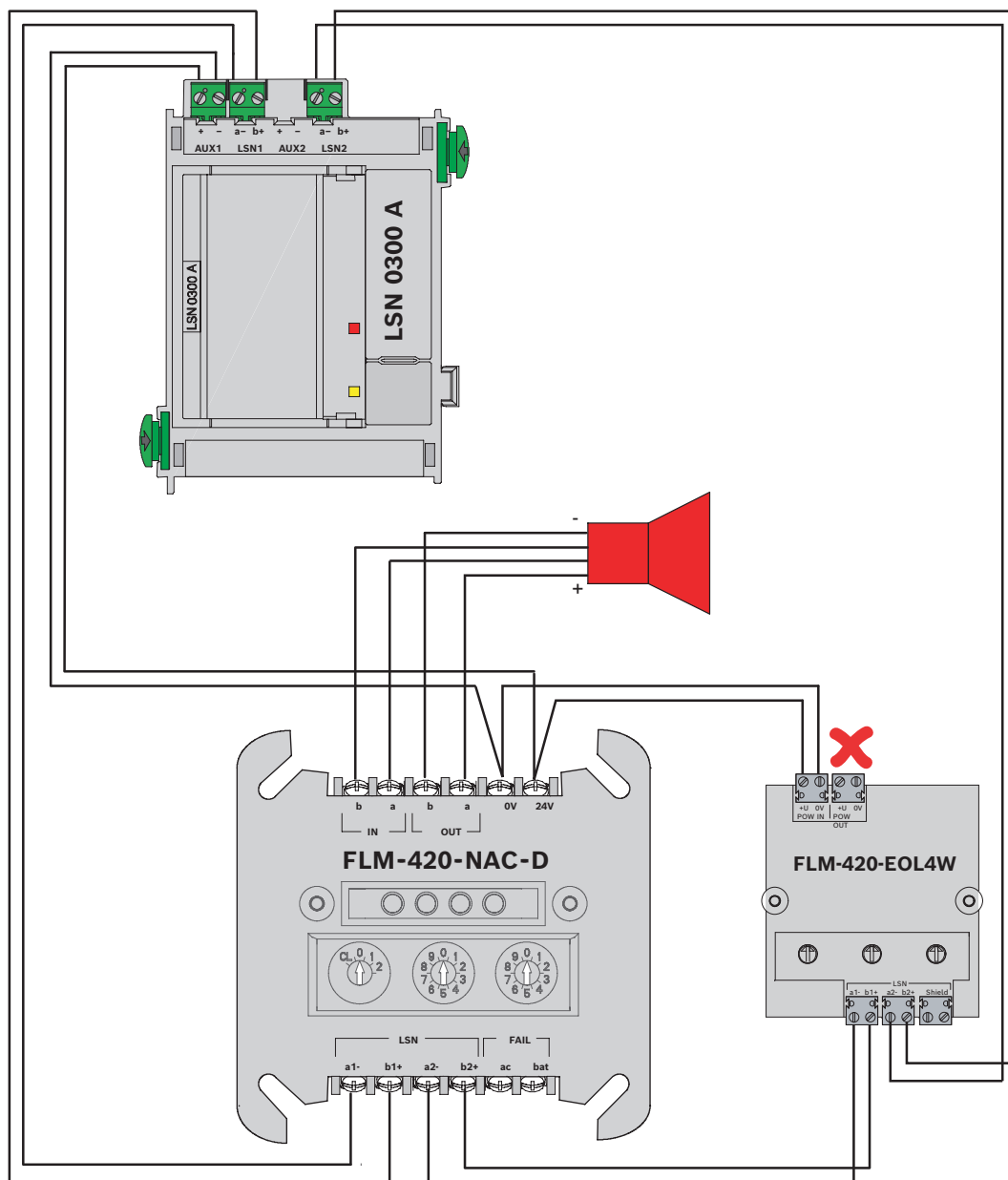


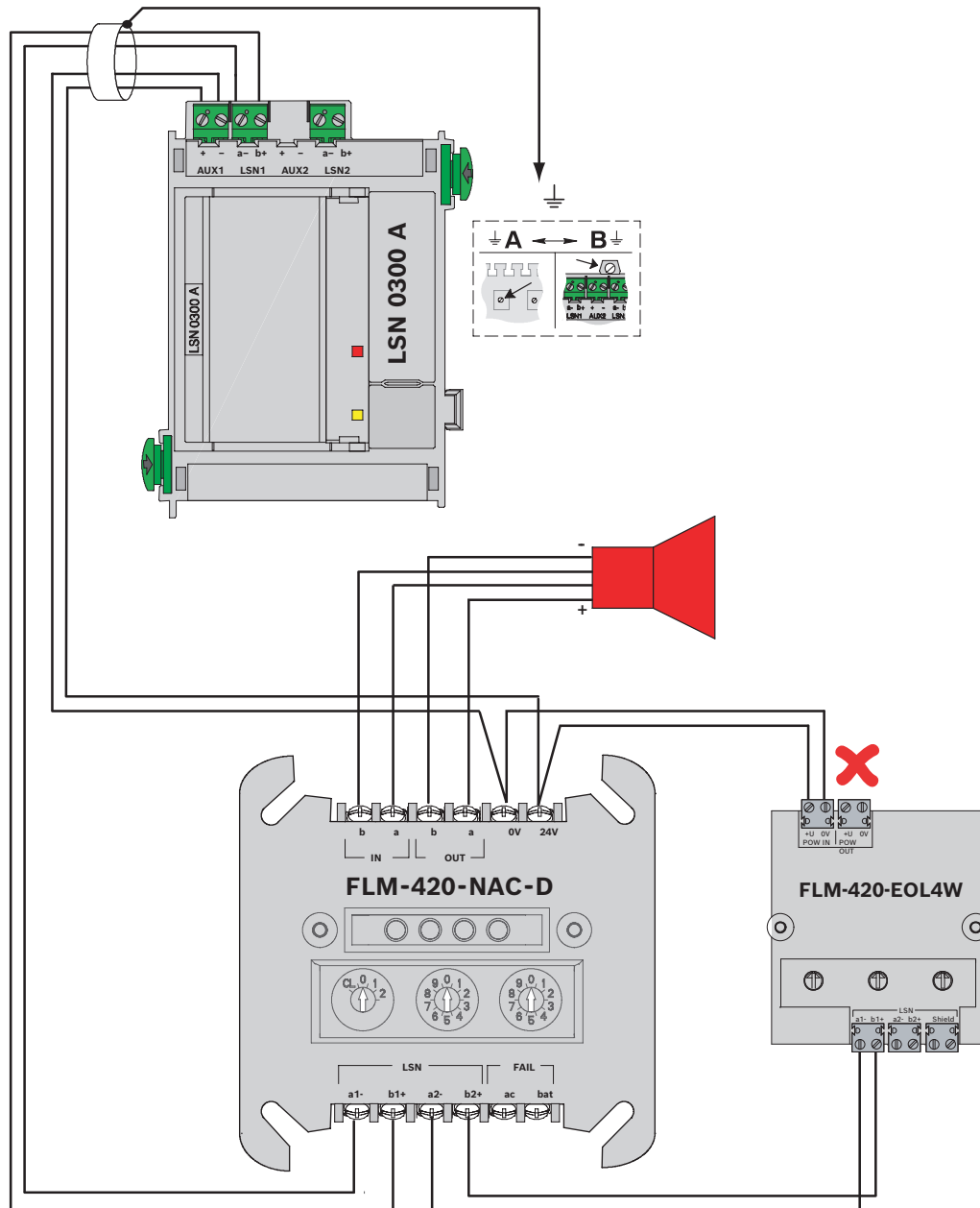
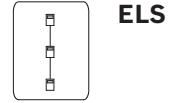
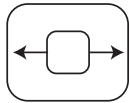


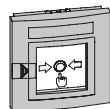
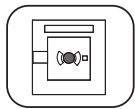
FLM-420-NAC-D/S



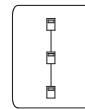
ELS
EN 54-2



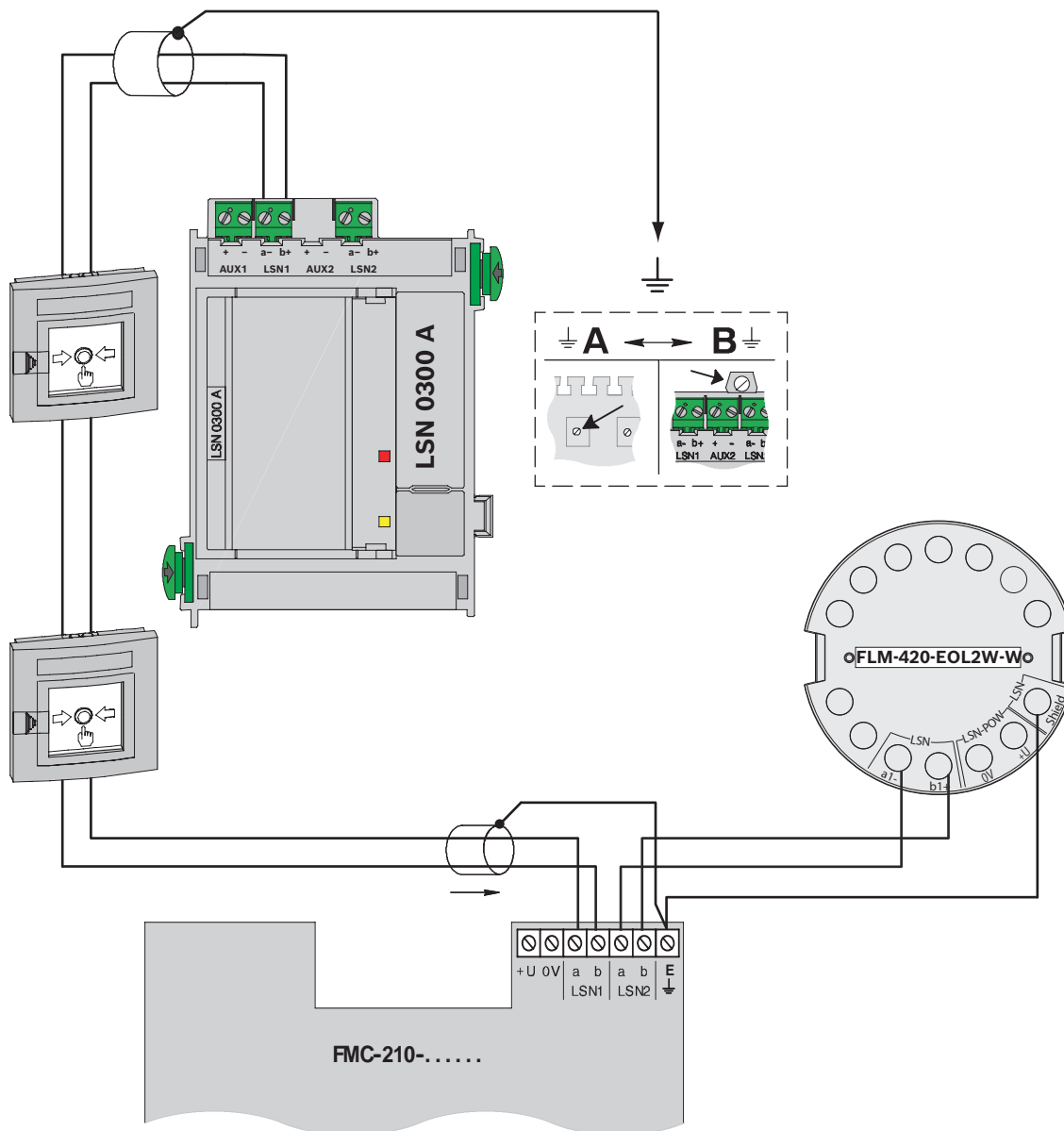


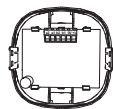


FMC-210...

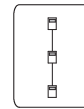


ELS

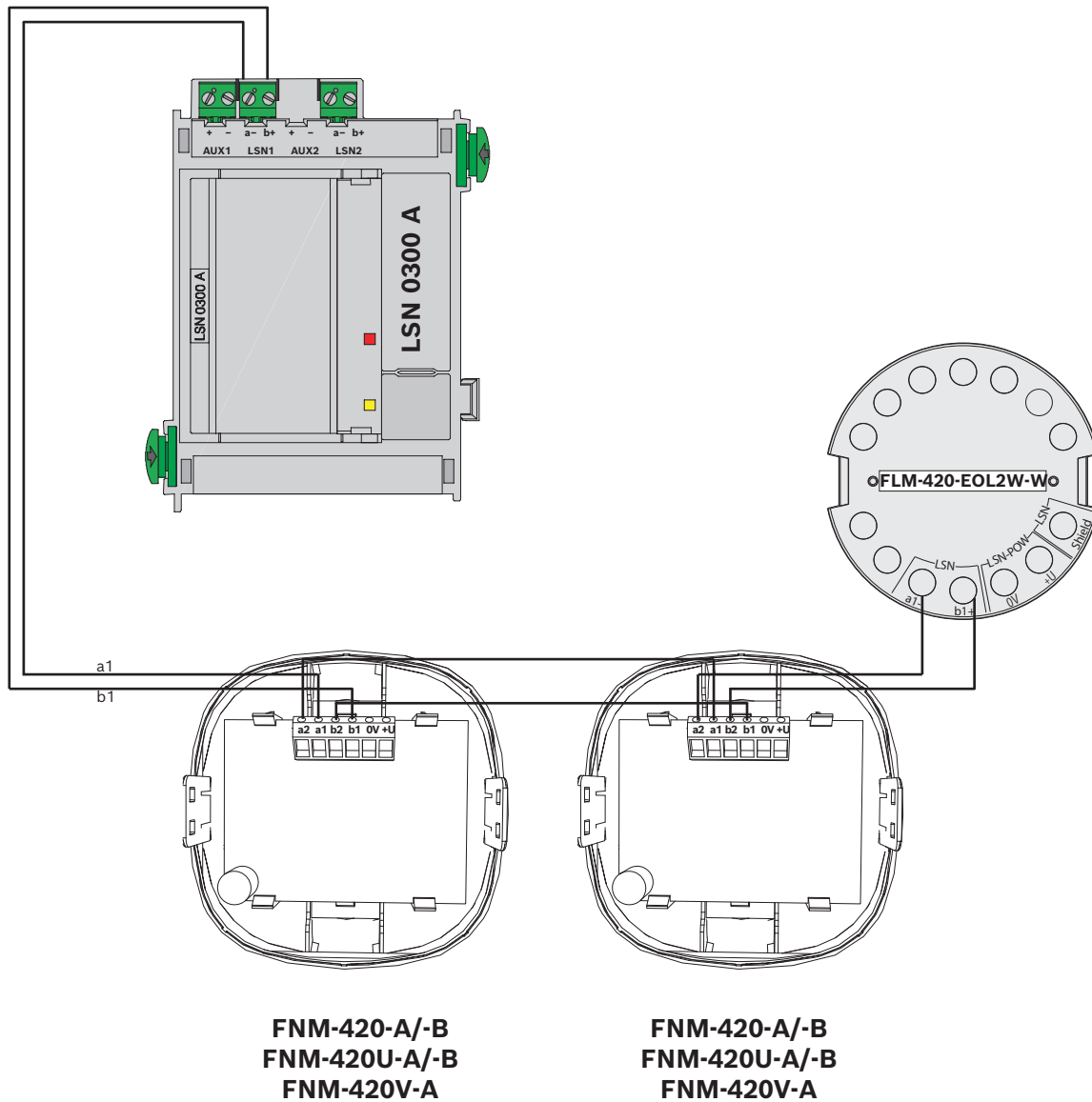




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS

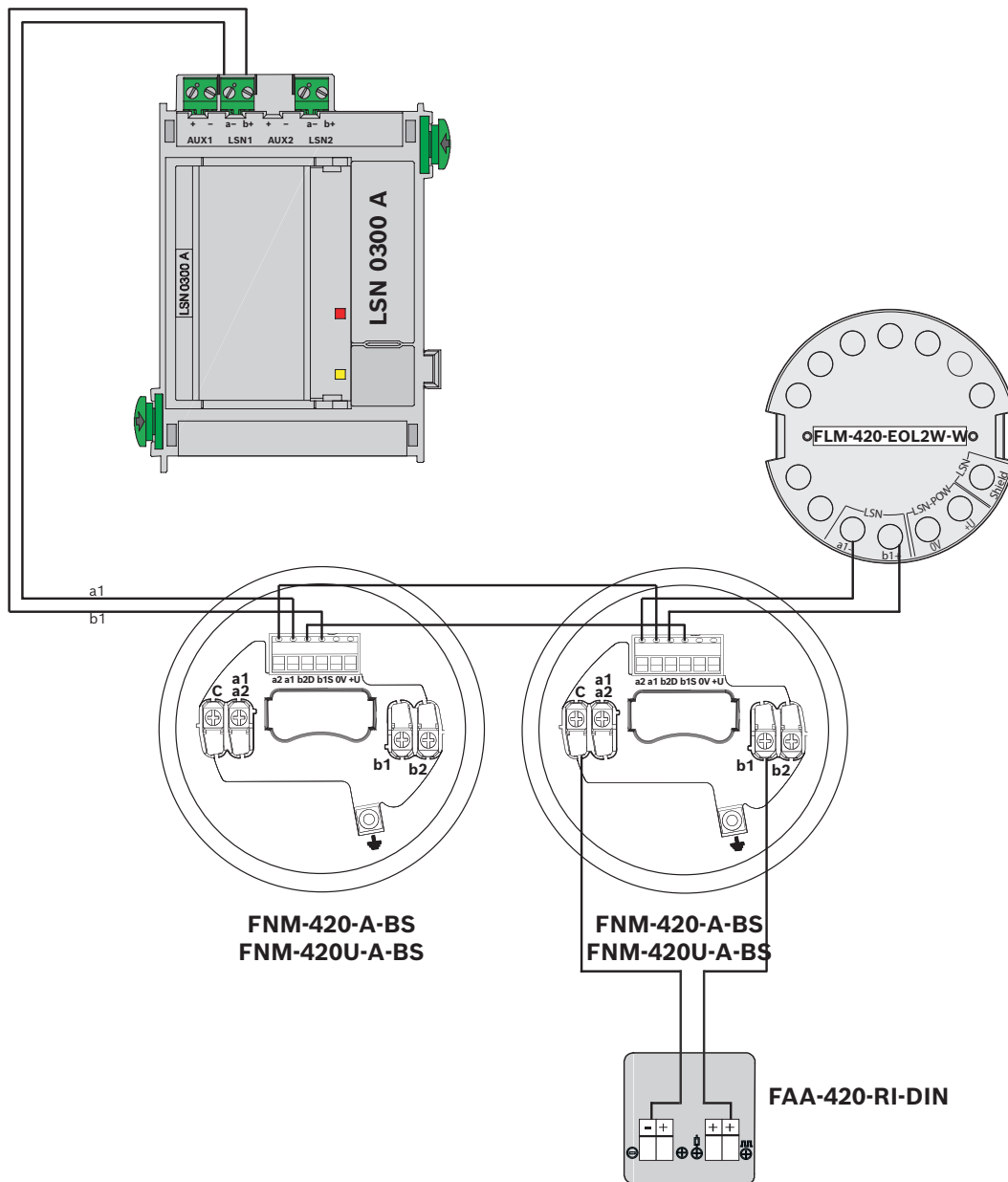




FNM-420-A-BS
FNM-420U-A-BS



ELS

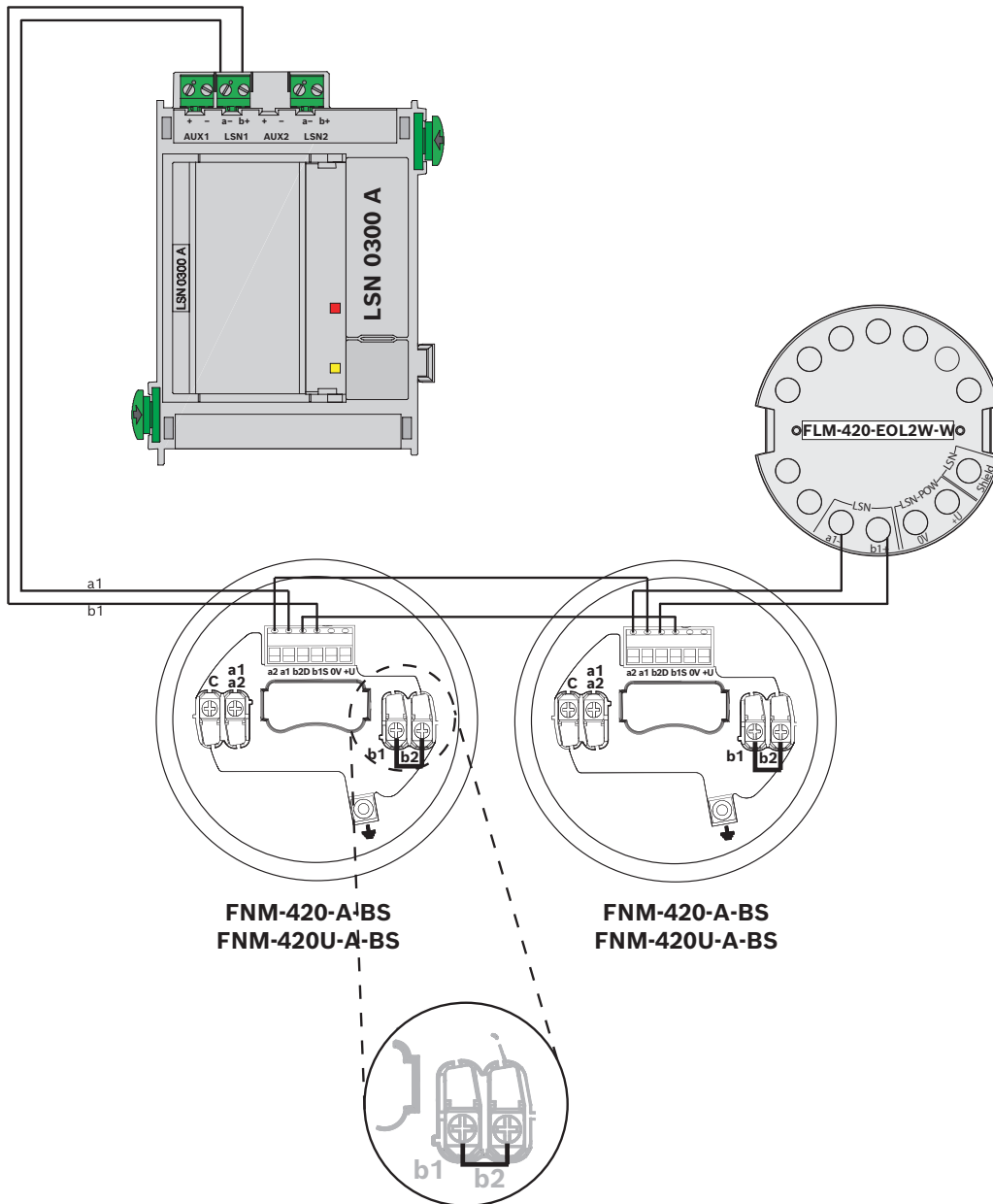


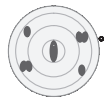


FNM-420-A-BS
FNM-420U-A-BS



ELS

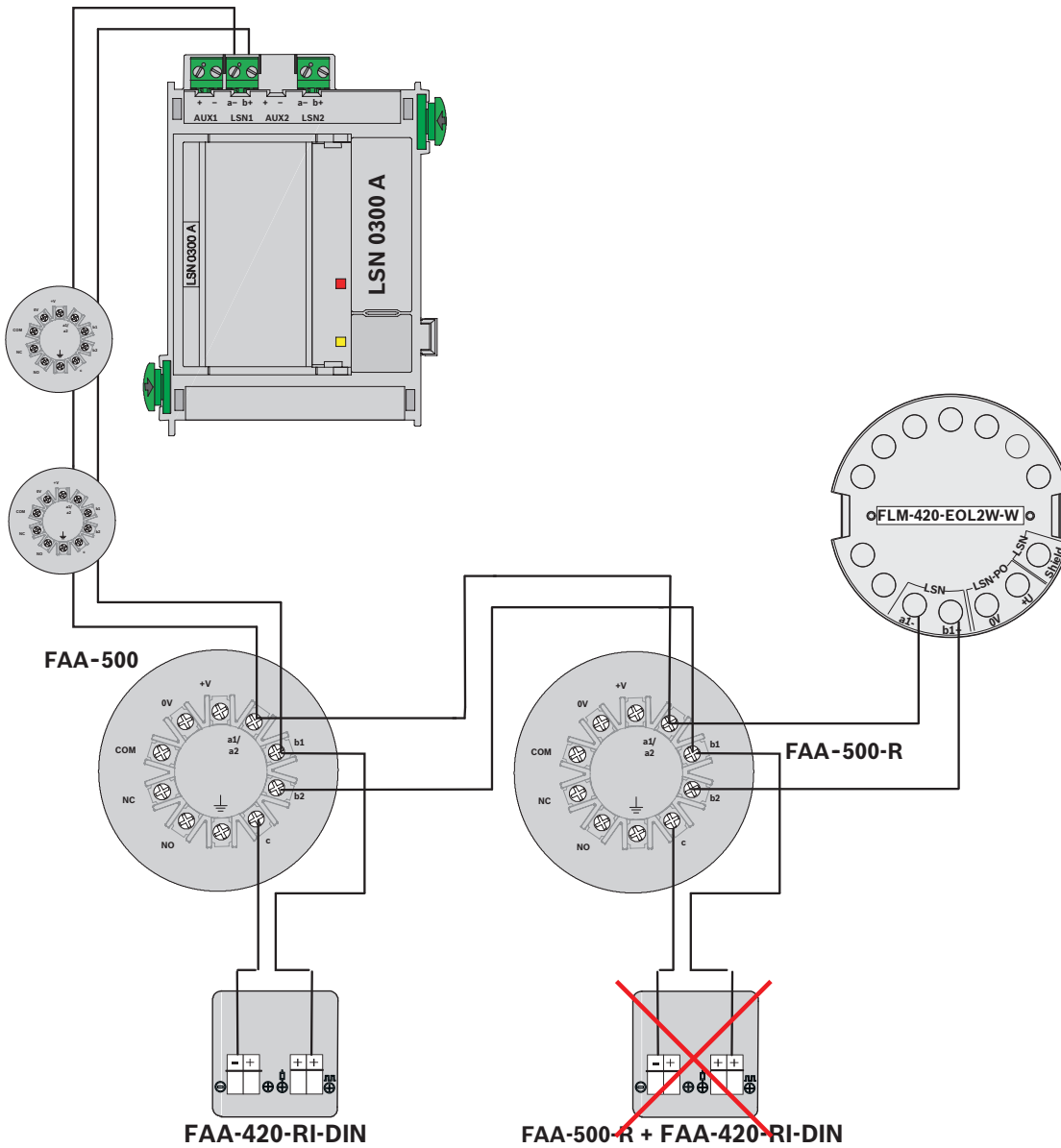


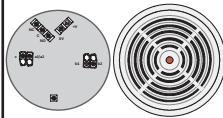


FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

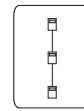


ELS

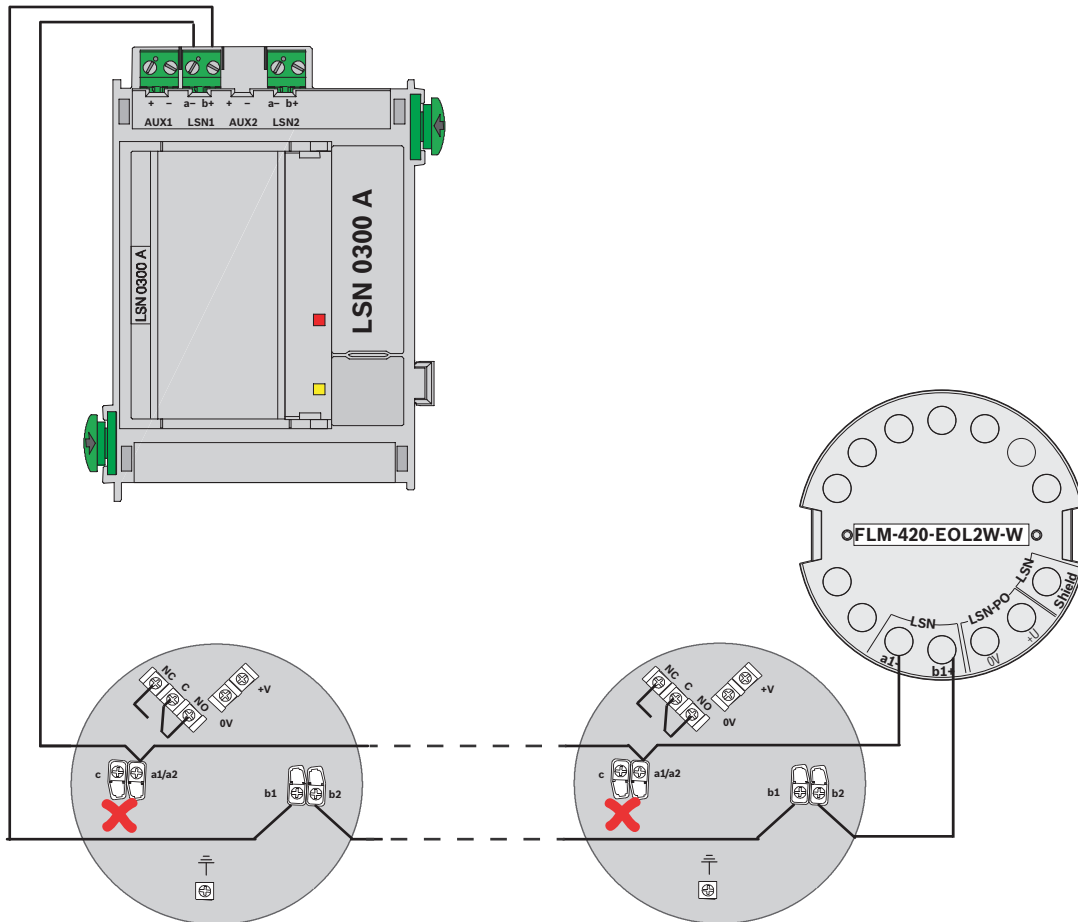


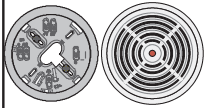


FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R



ELS

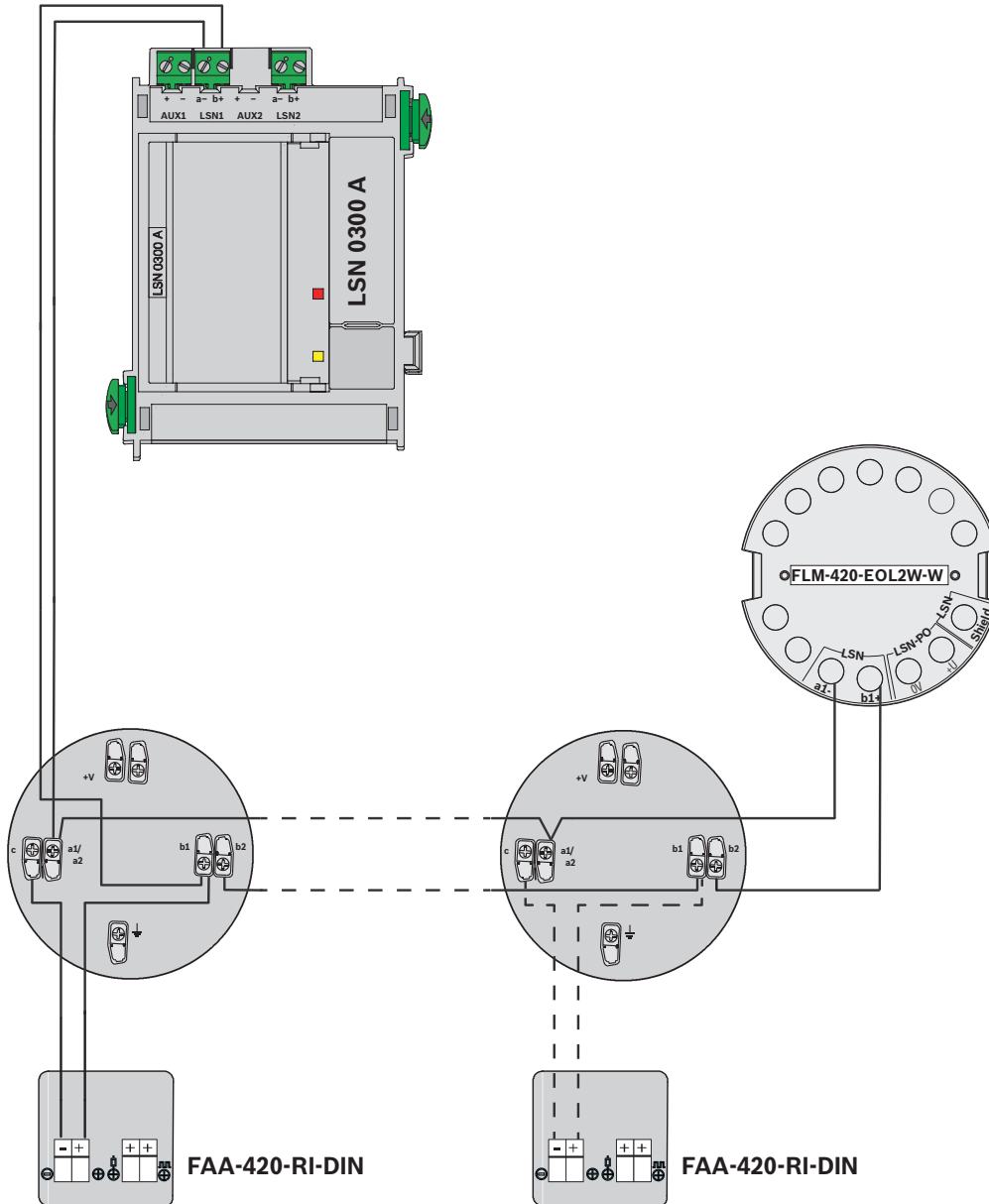


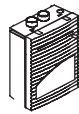


MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R

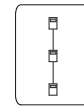


ELS

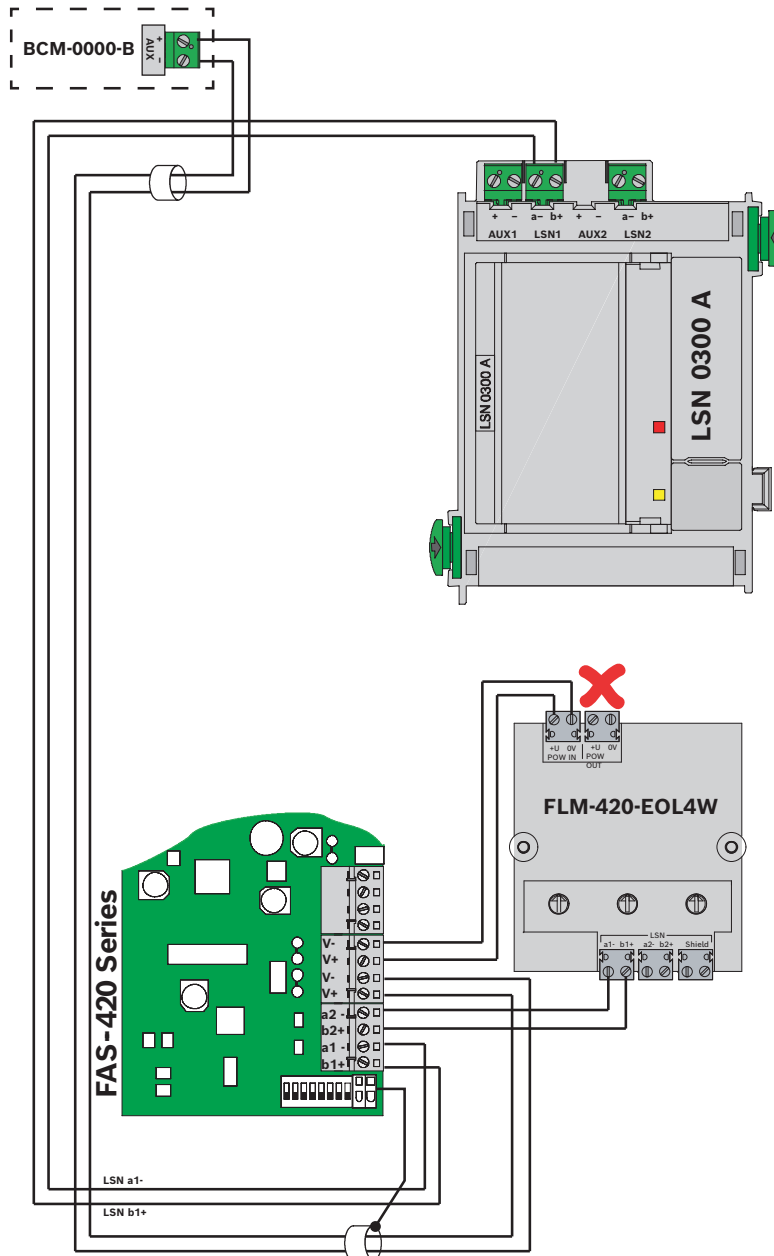


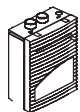


FAS-420 Series

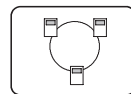


ELS

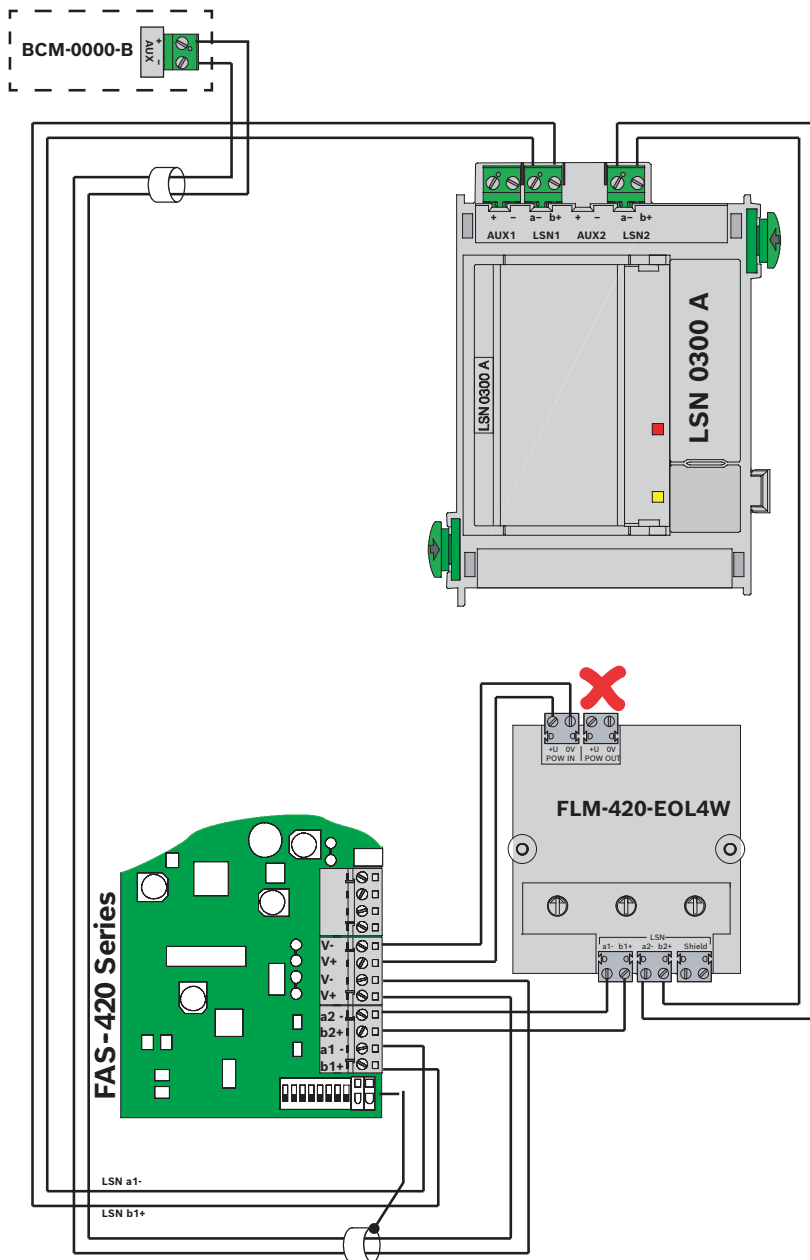


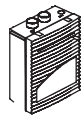


FAS-420 Series

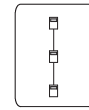


ELS

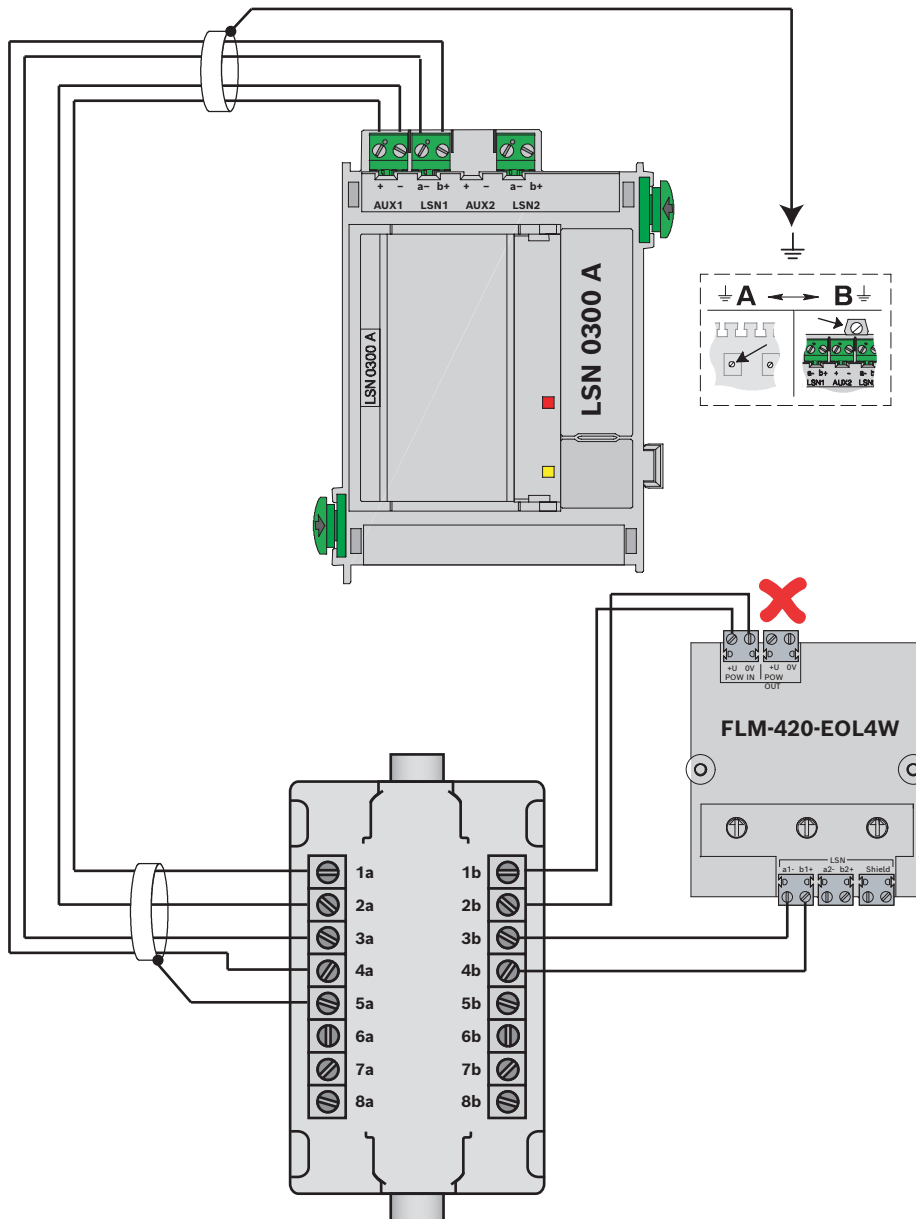


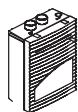


FAS-420-TM Series

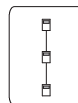


ELS

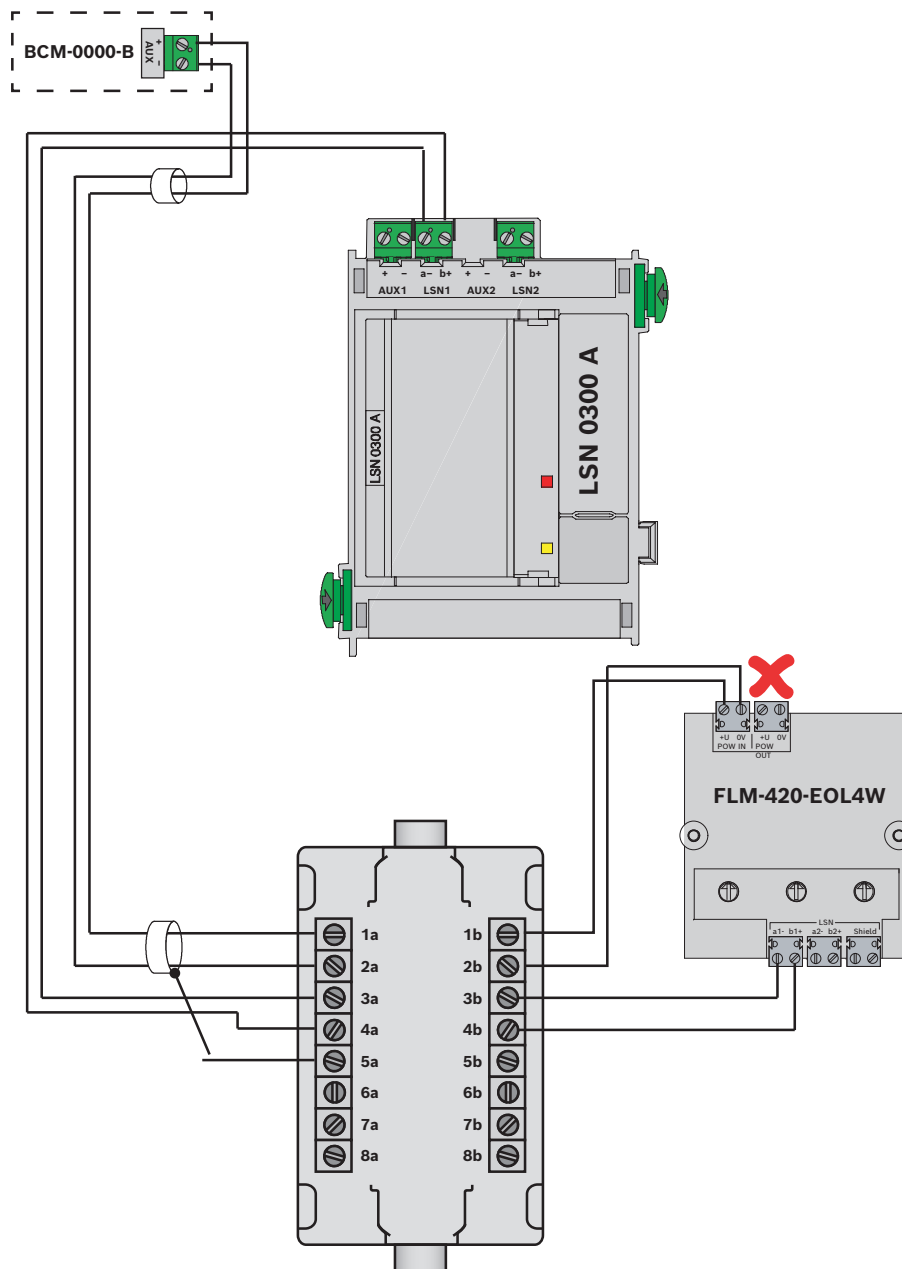


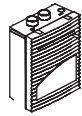


FAS-420-TM Series

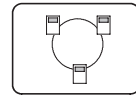


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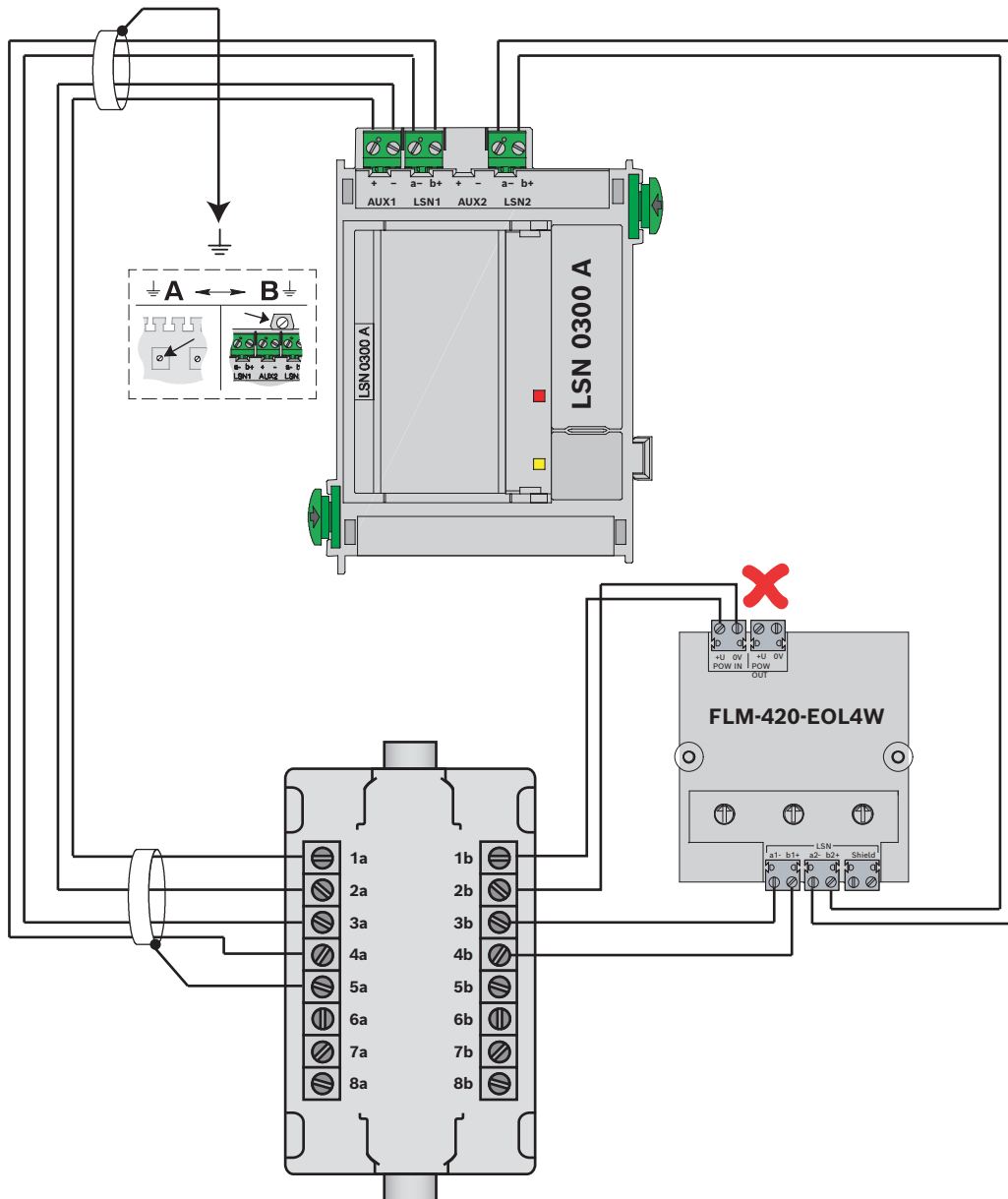


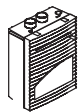


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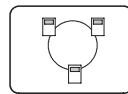


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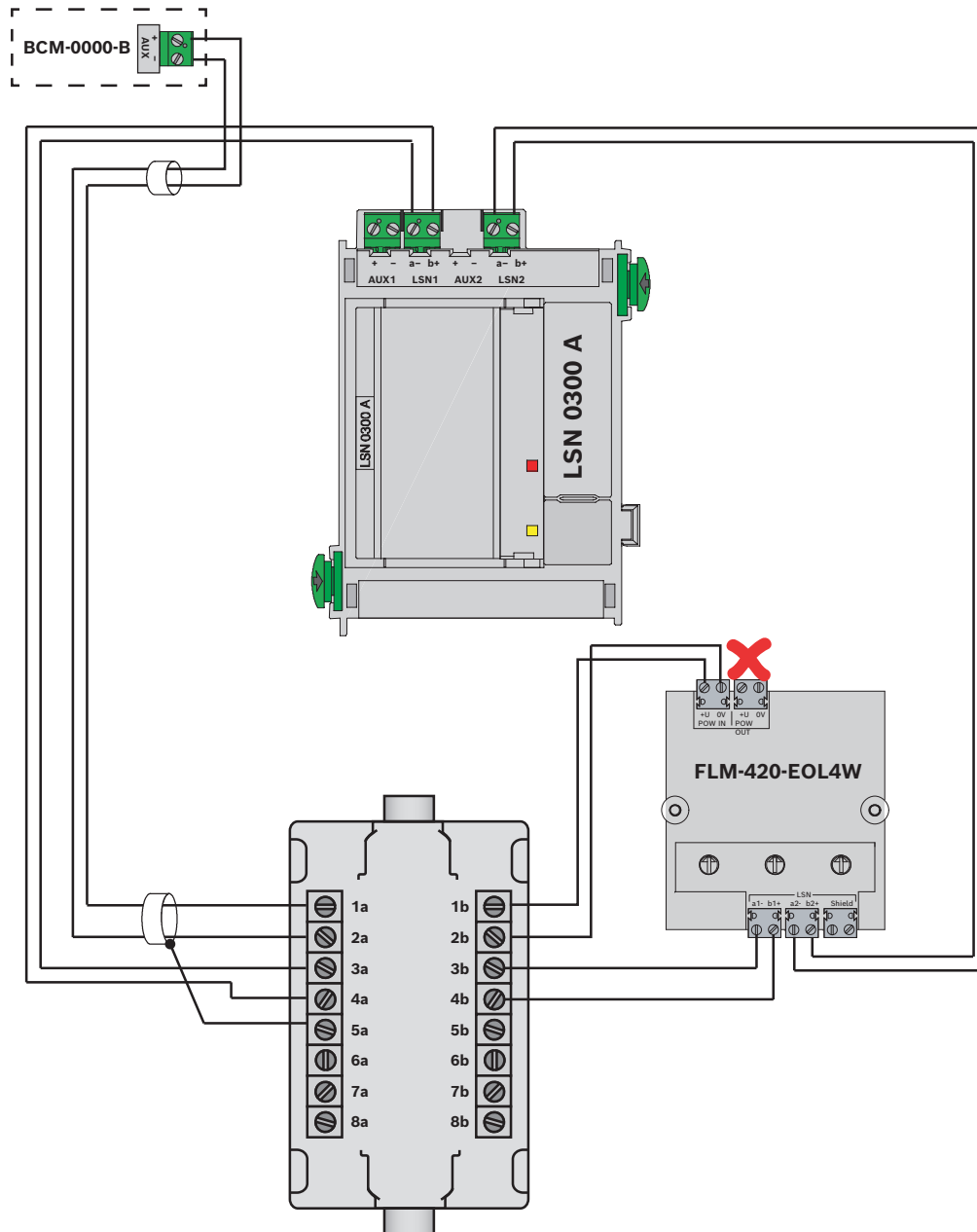




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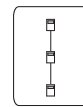


ELS

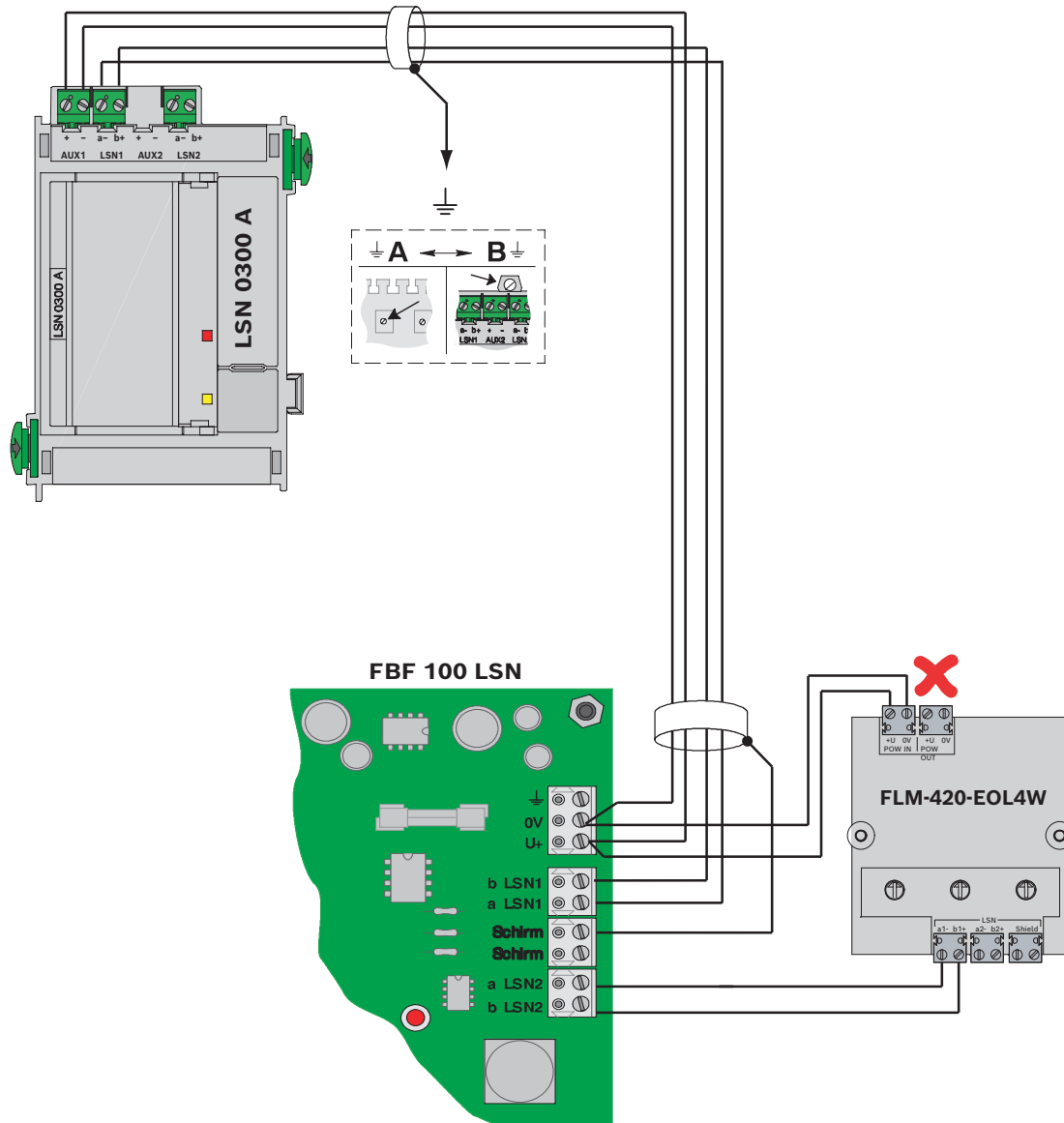




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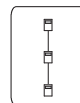


ELS

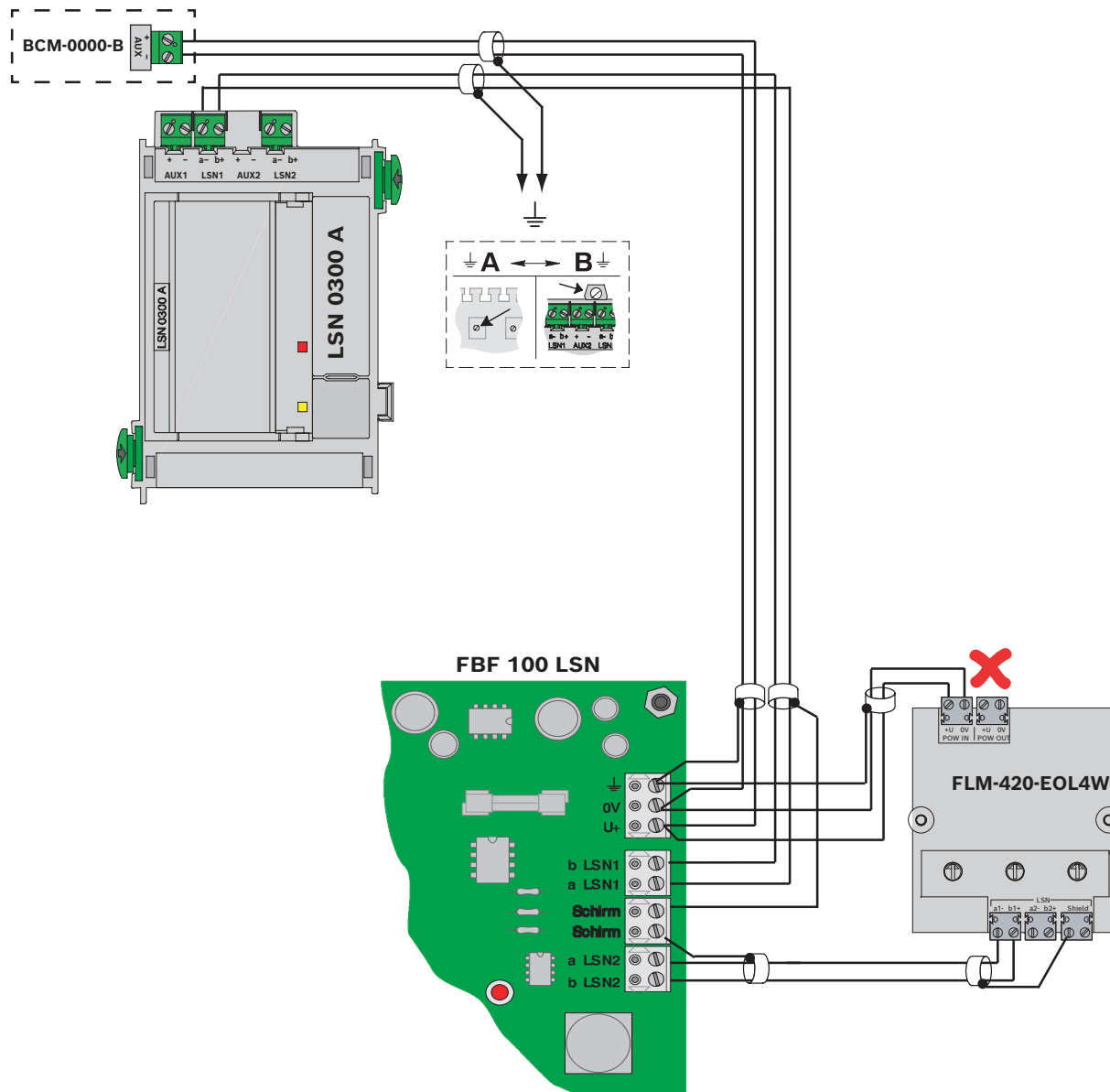




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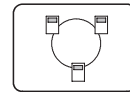


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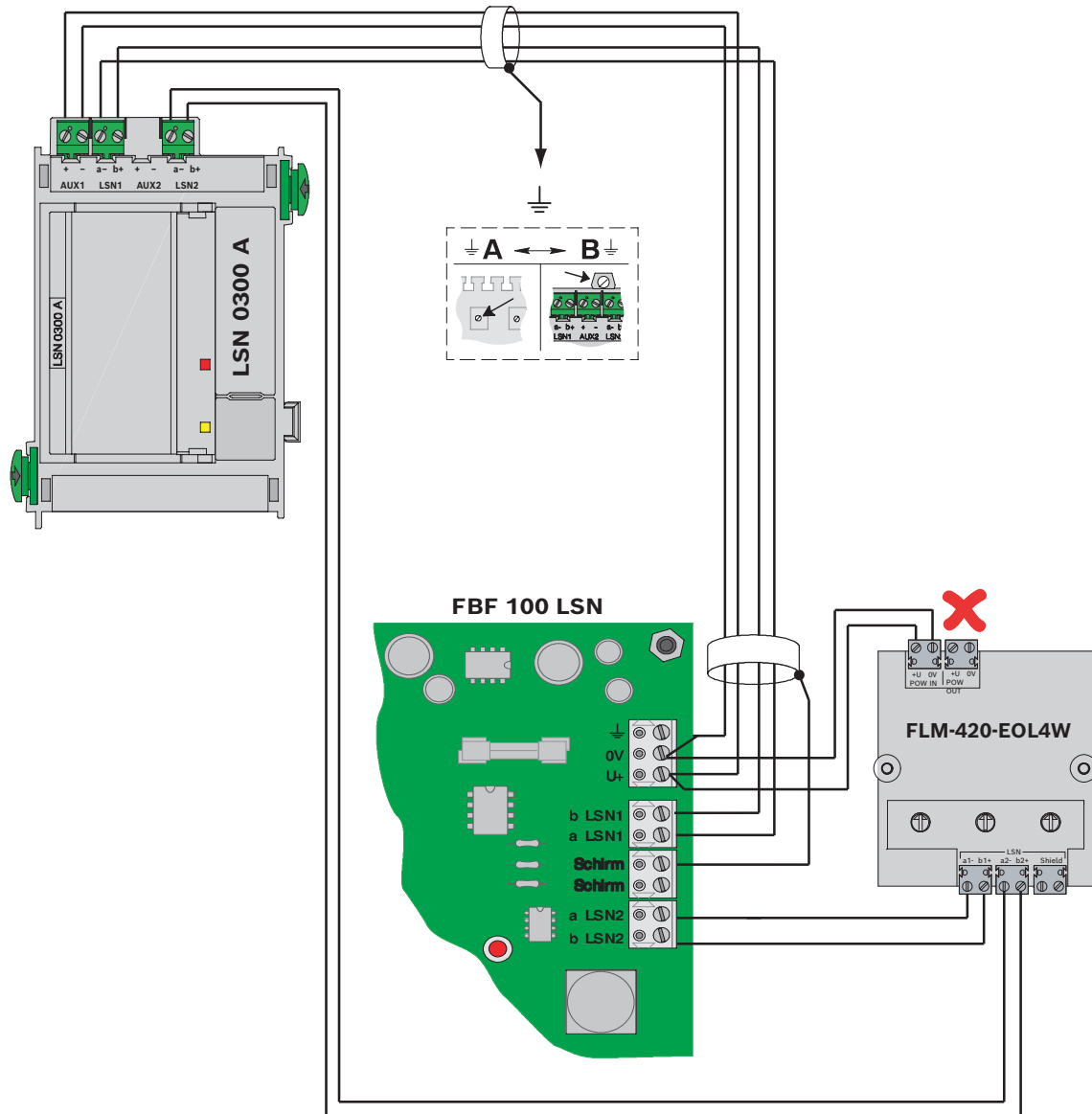




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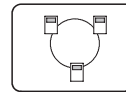


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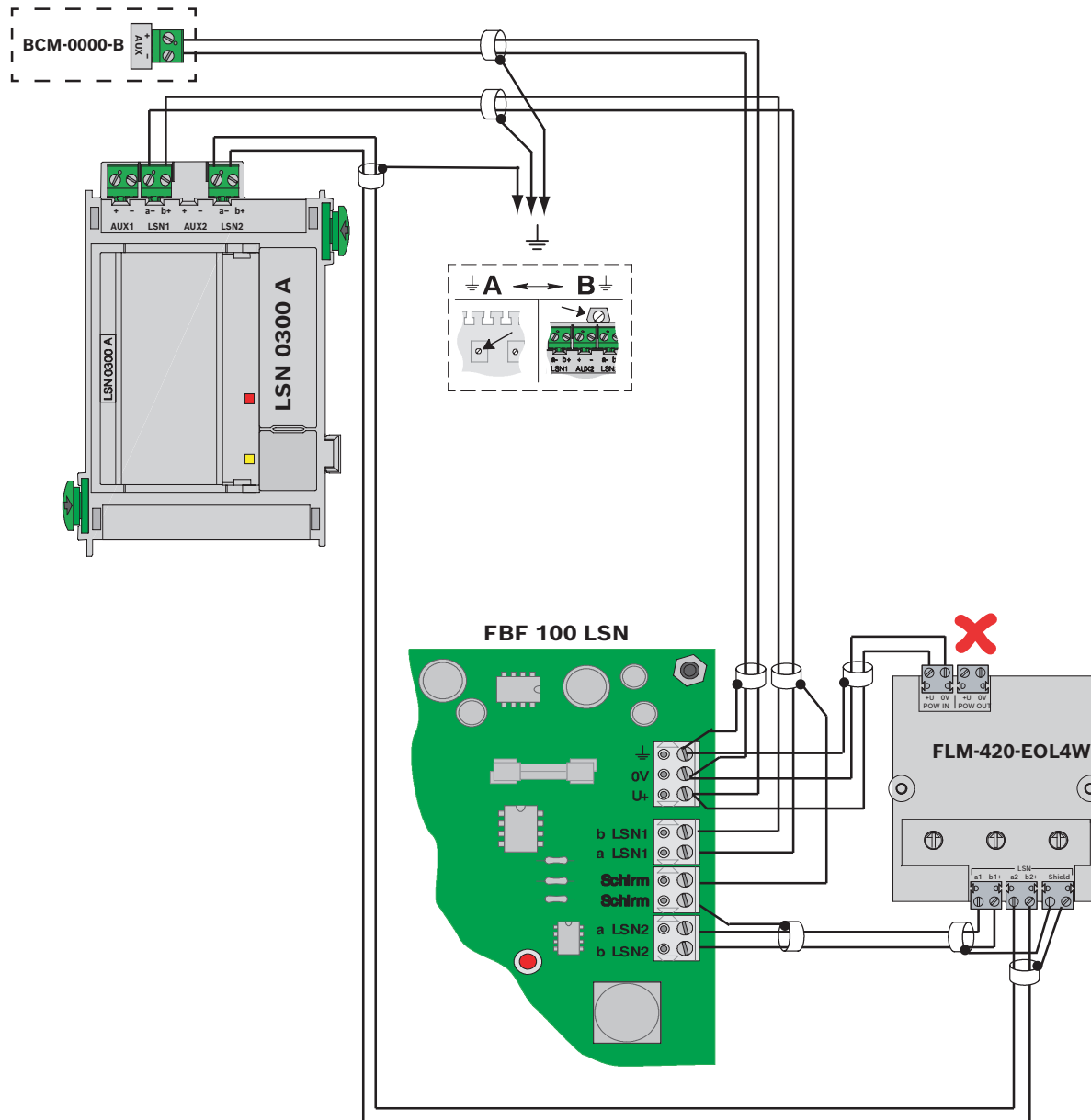


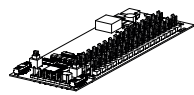


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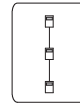


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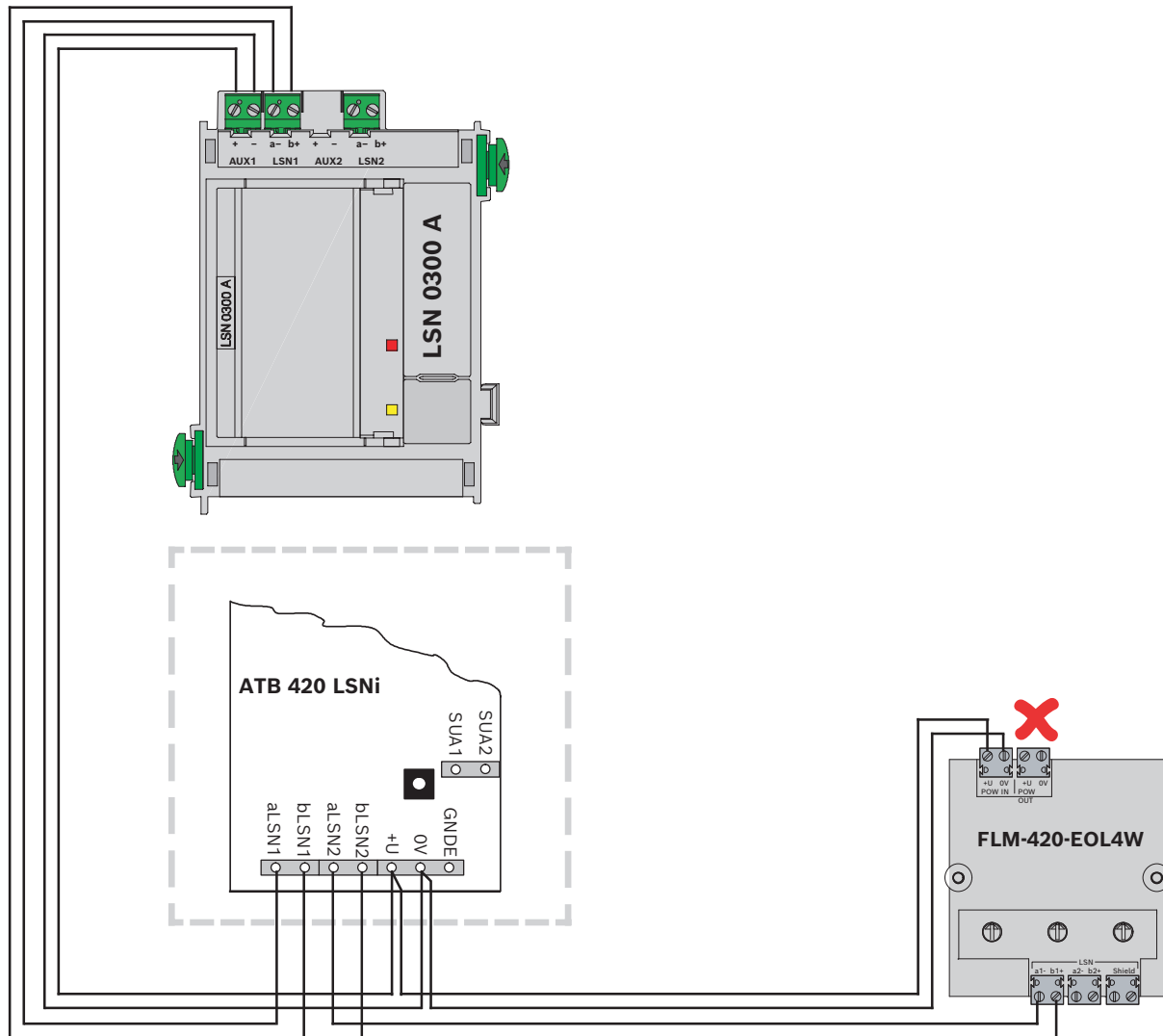


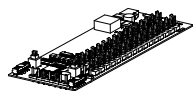


ATB 420 LSNi

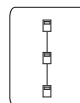


ELS

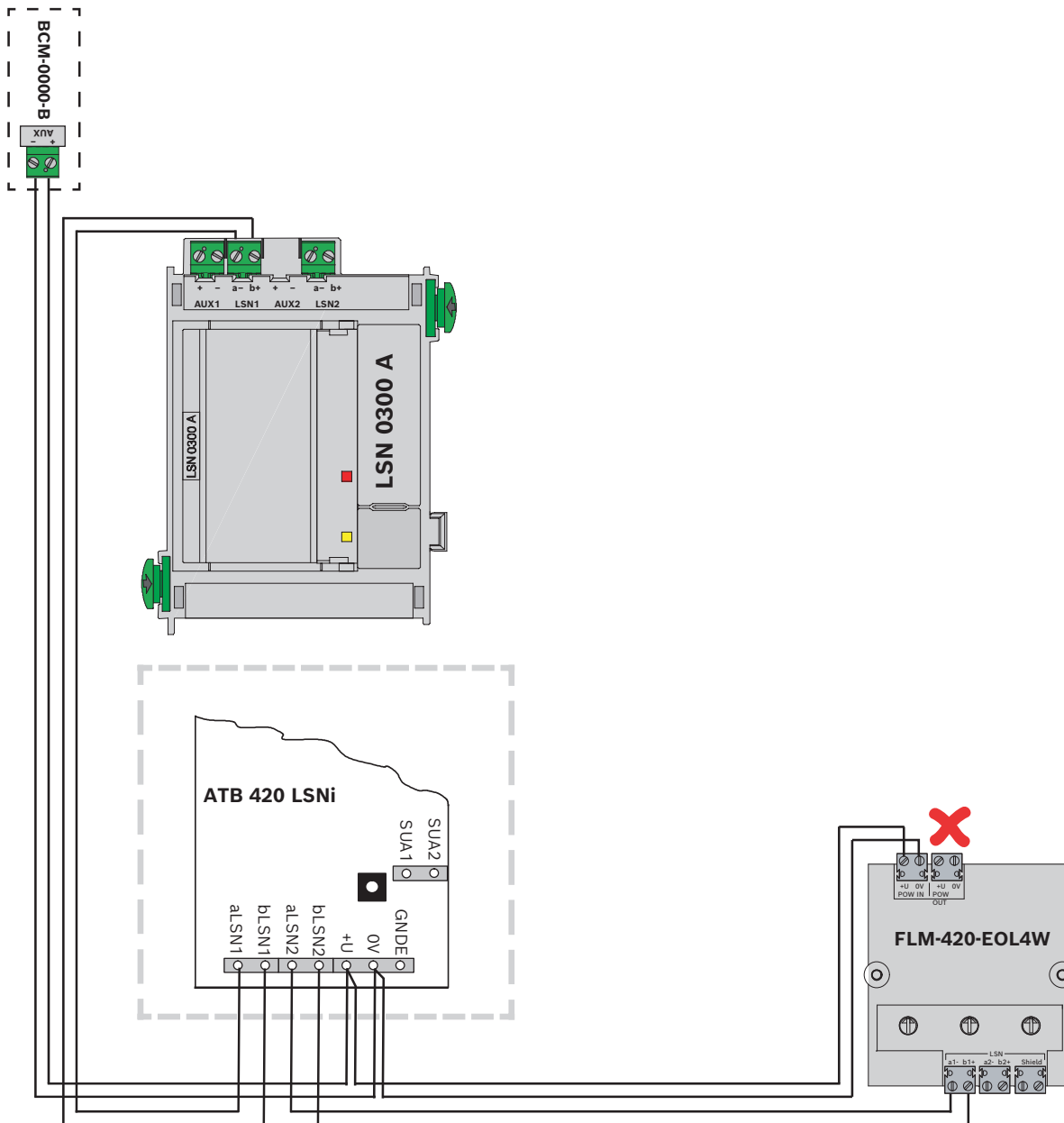


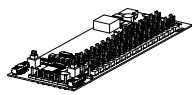


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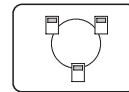


ELS

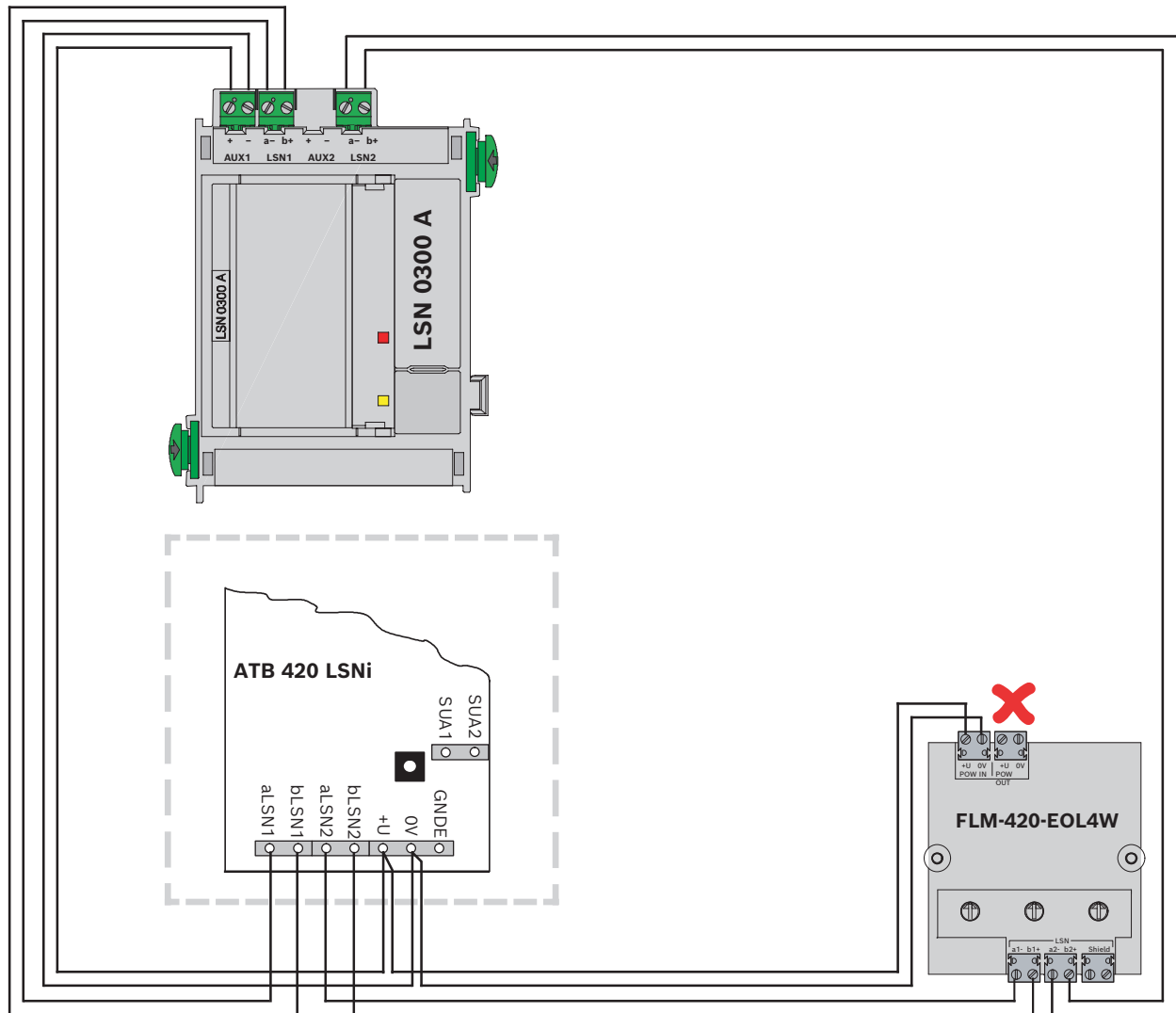


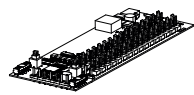


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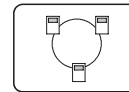


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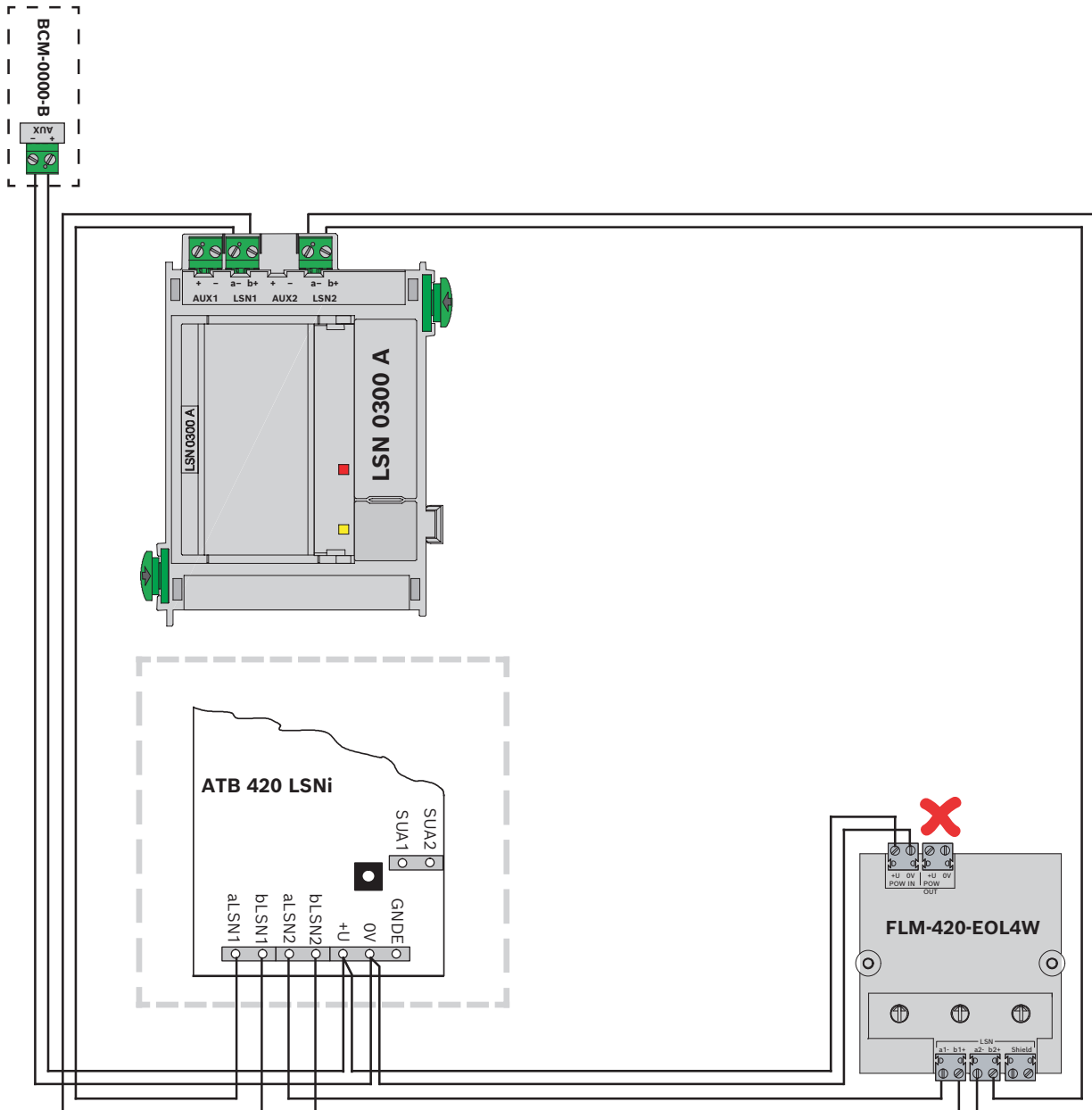




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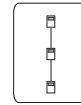


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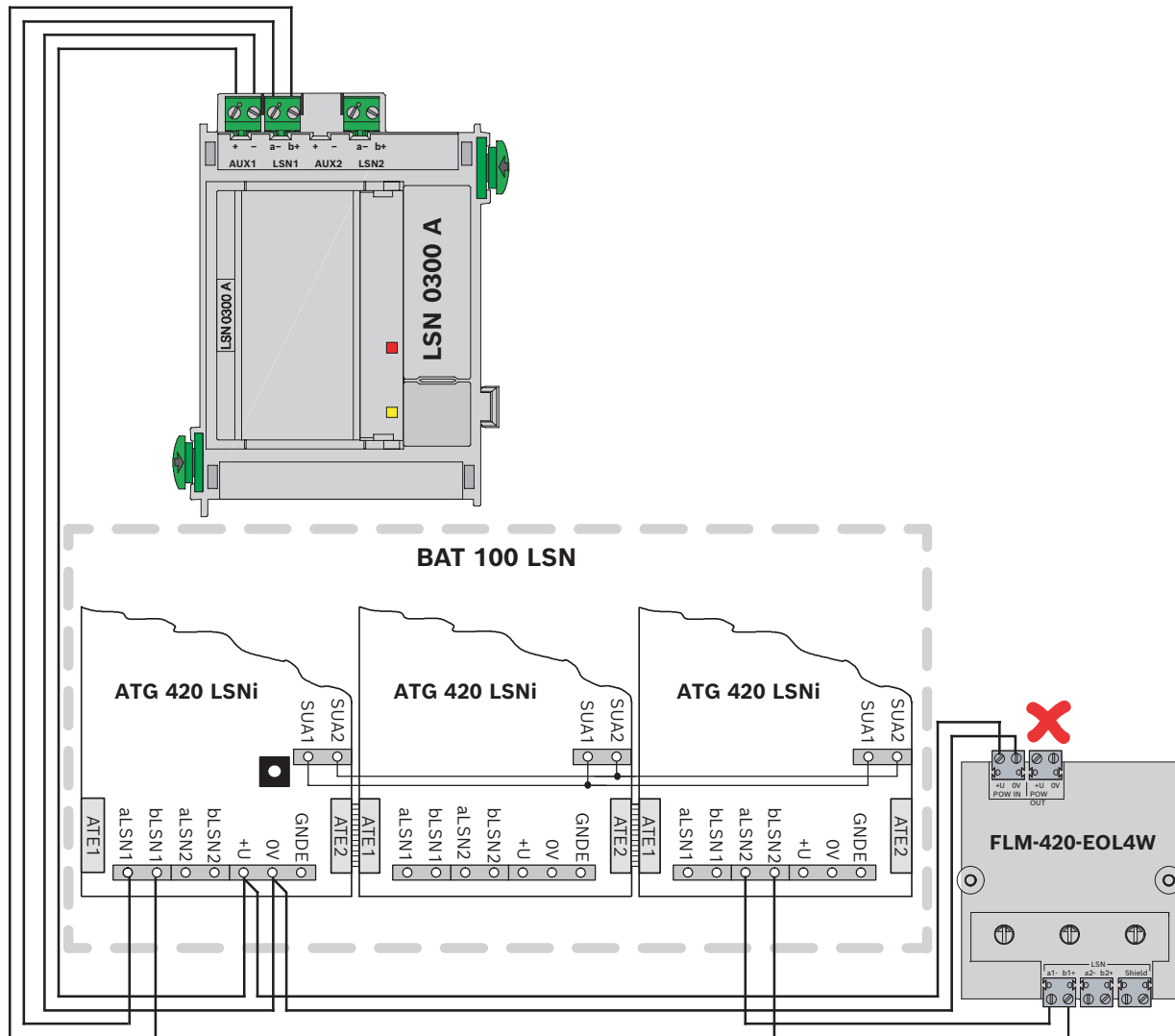




**BAT 100 LSN
ATG 420 LSNi**

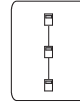


ELS

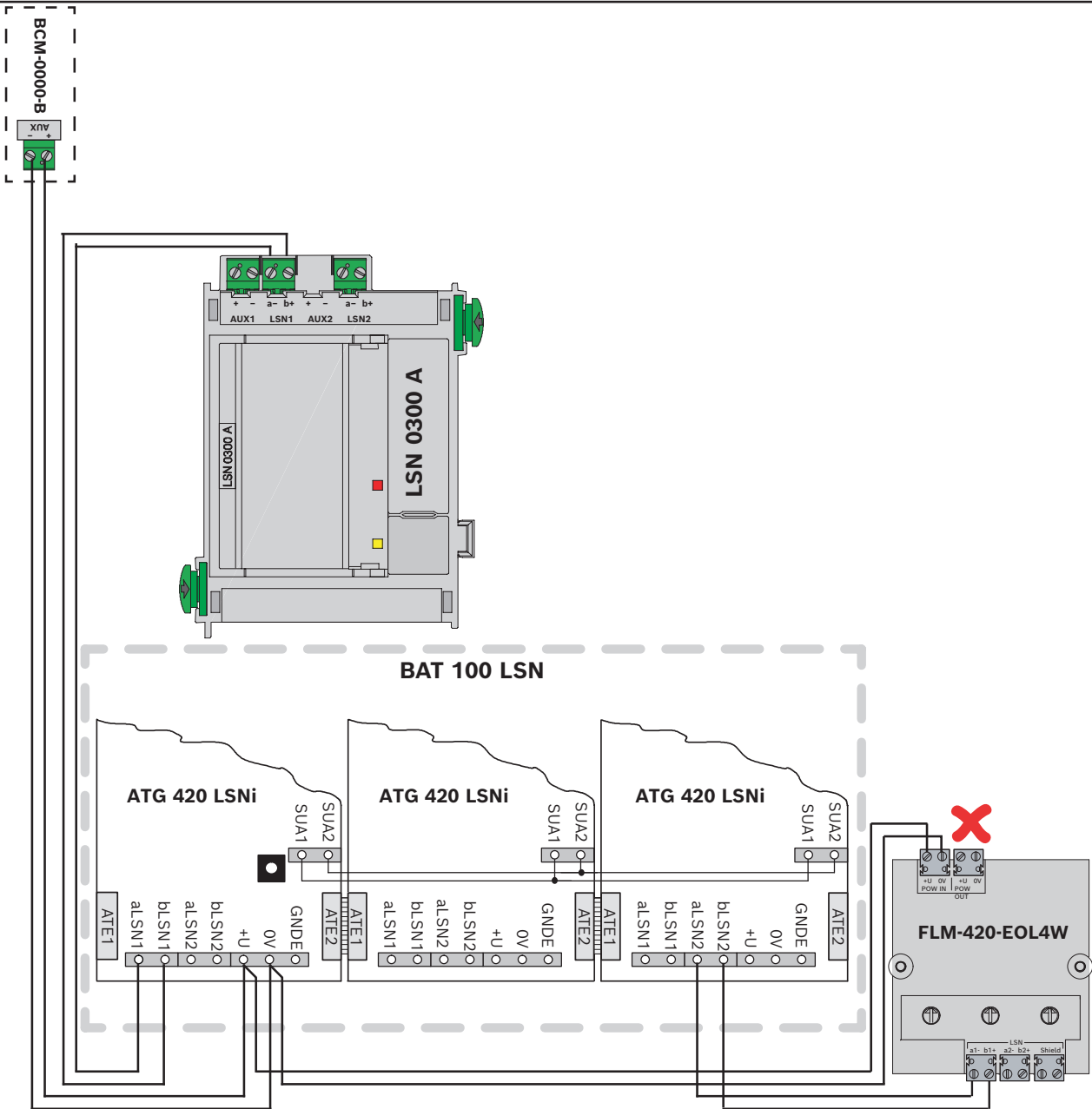




BAT 100 LSN
ATG 420 LSNi

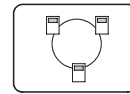


ELS

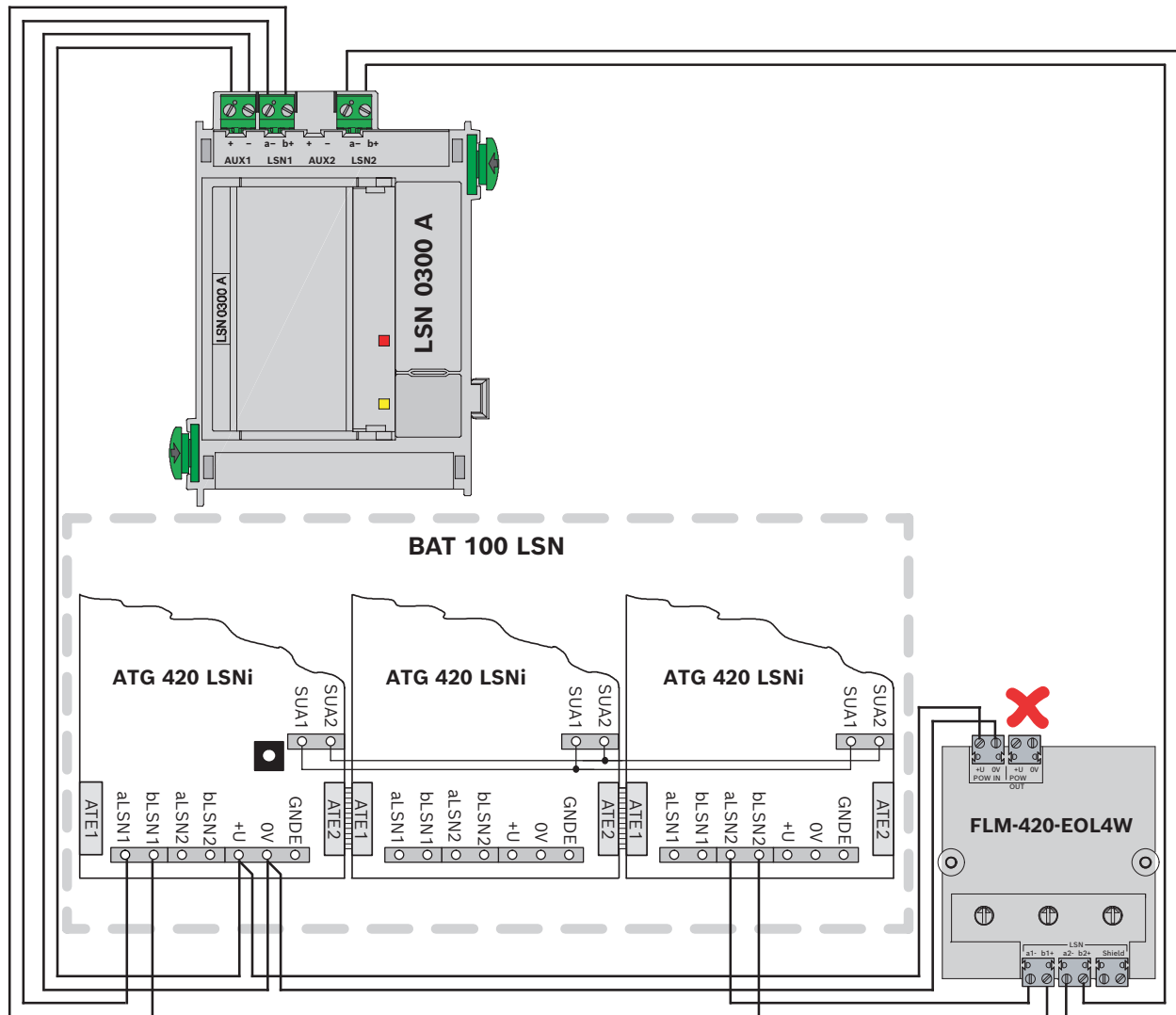




**BAT 100 LSN
ATG 420 LSNi**

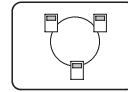


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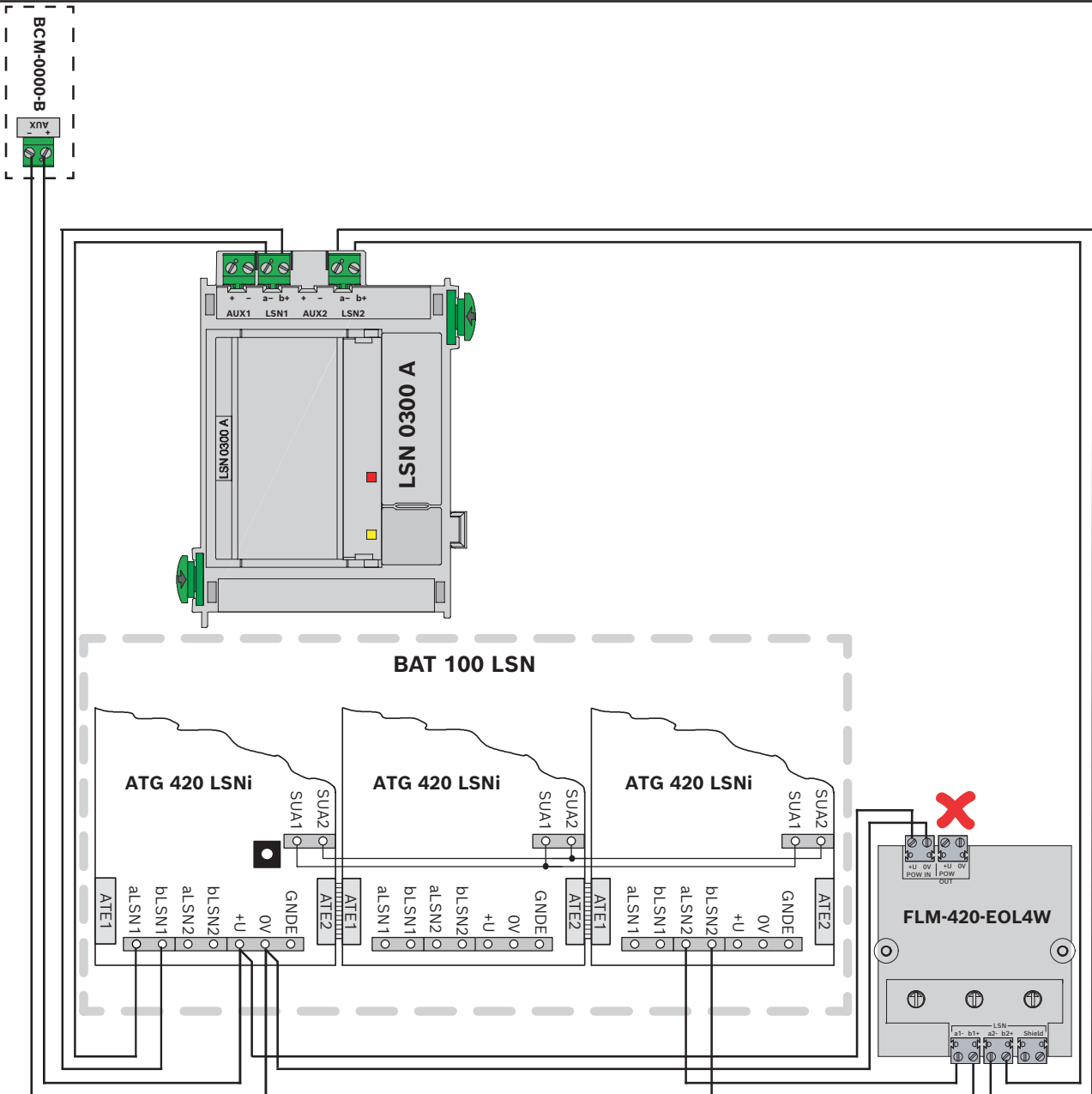




BAT 100 LSN
ATG 420 LSNi



ELS

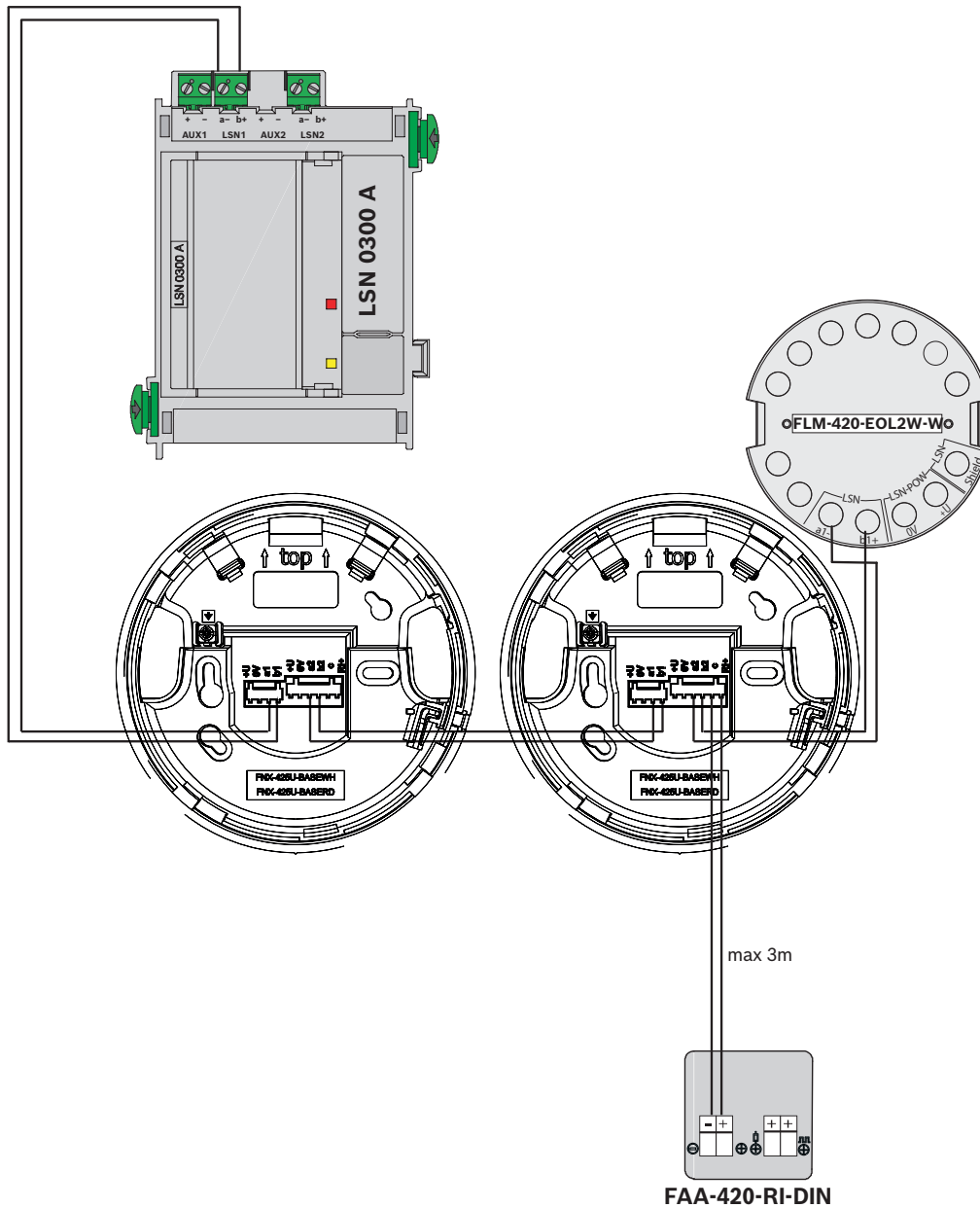




FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD



ELS





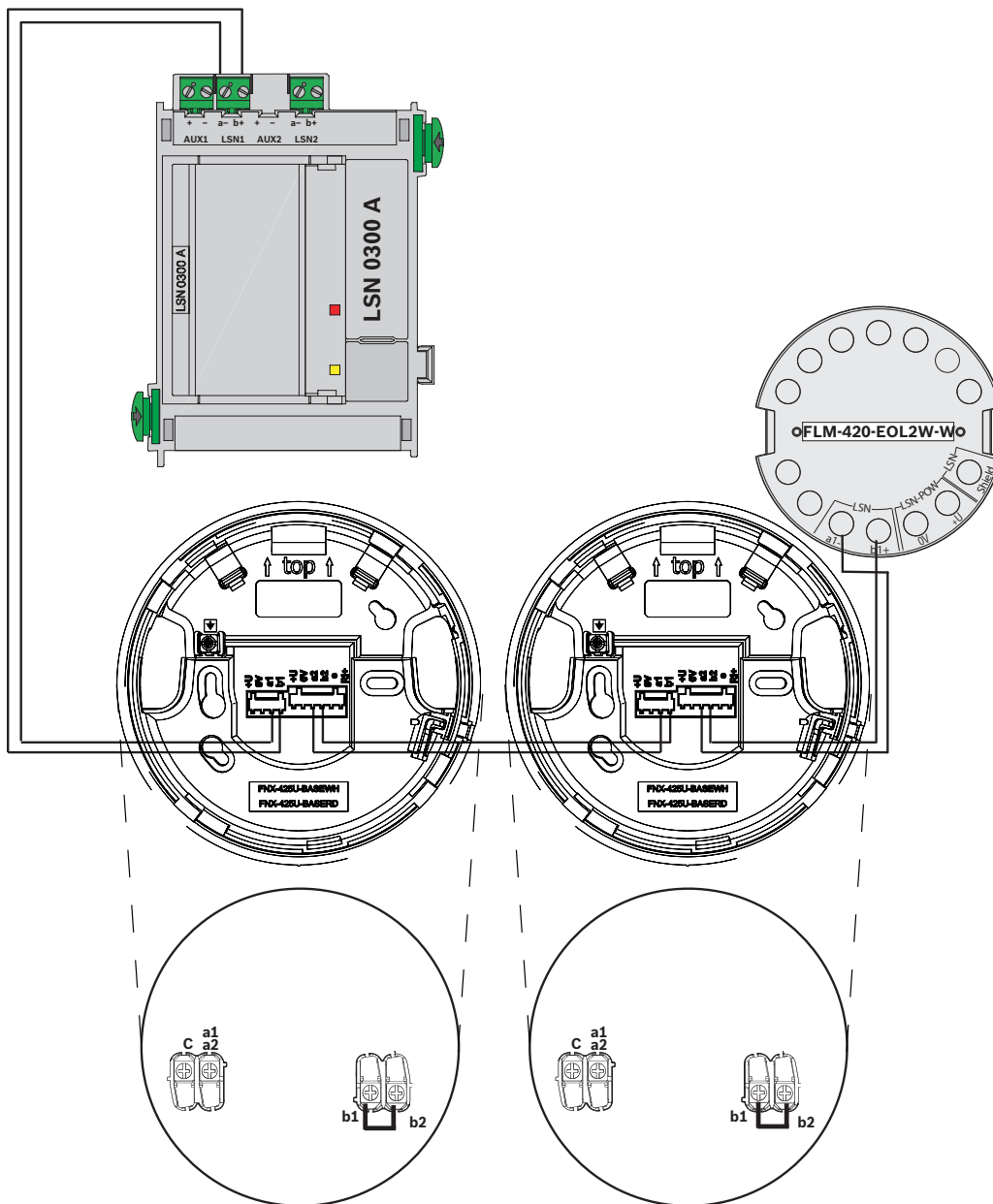
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 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

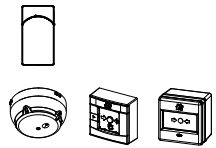
+

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



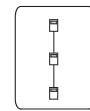
ELS



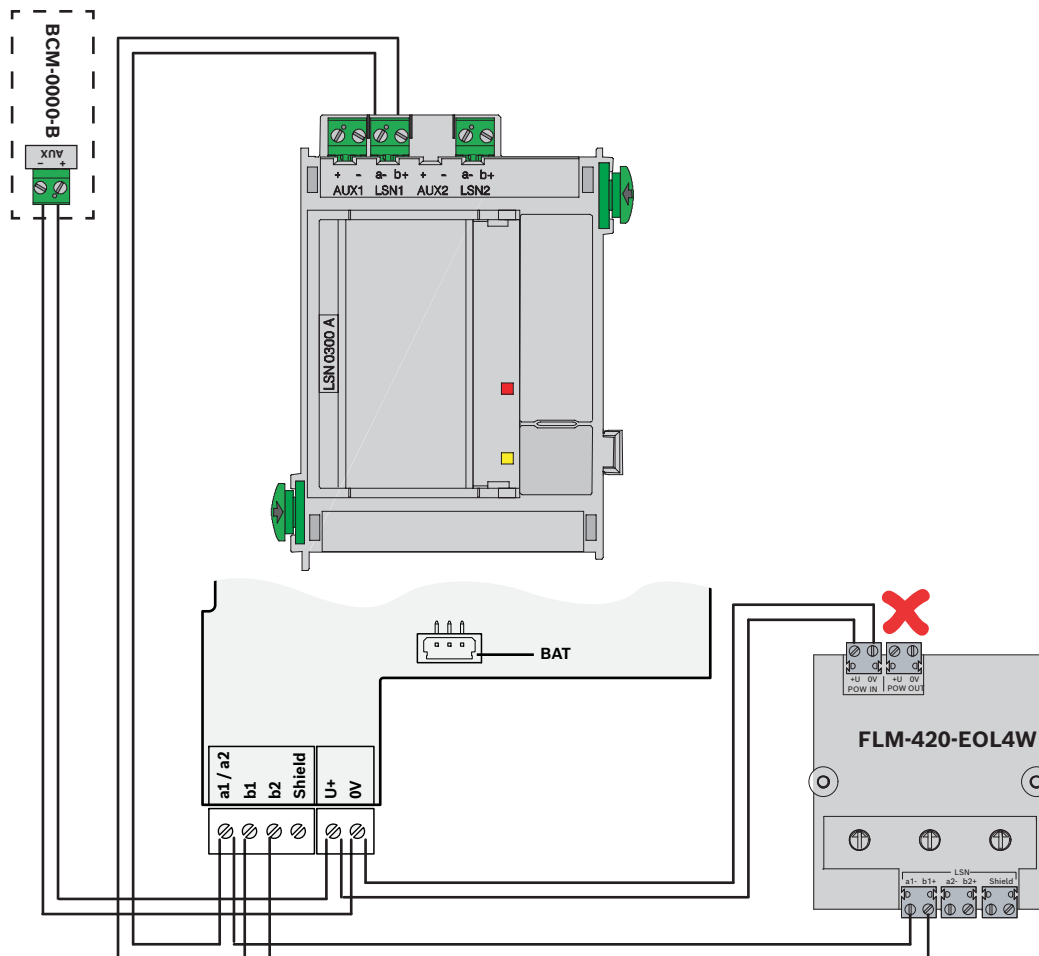


FWI-270

FDOOT271-O
FDM275-O
FDM273-O



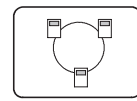
ELS



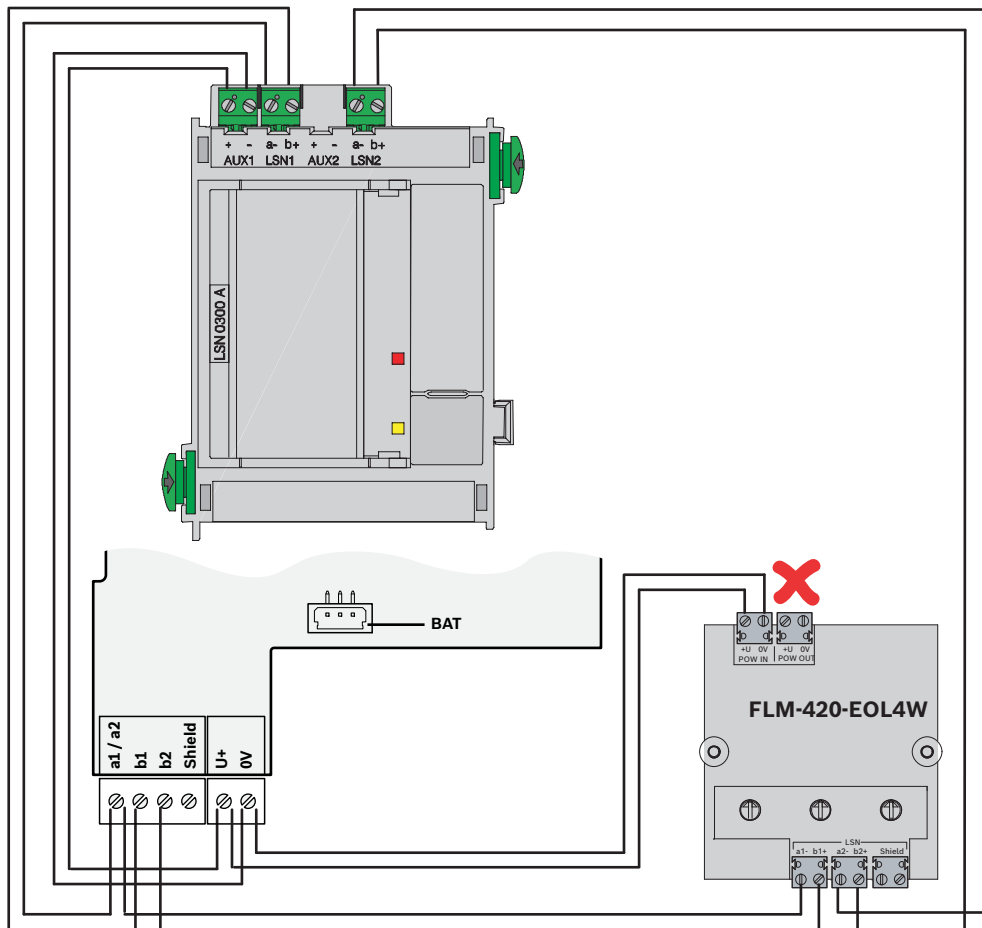


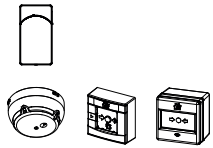
FWI-270

FDOOT271-O
FDM275-O
FDM273-O



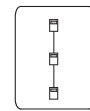
ELS



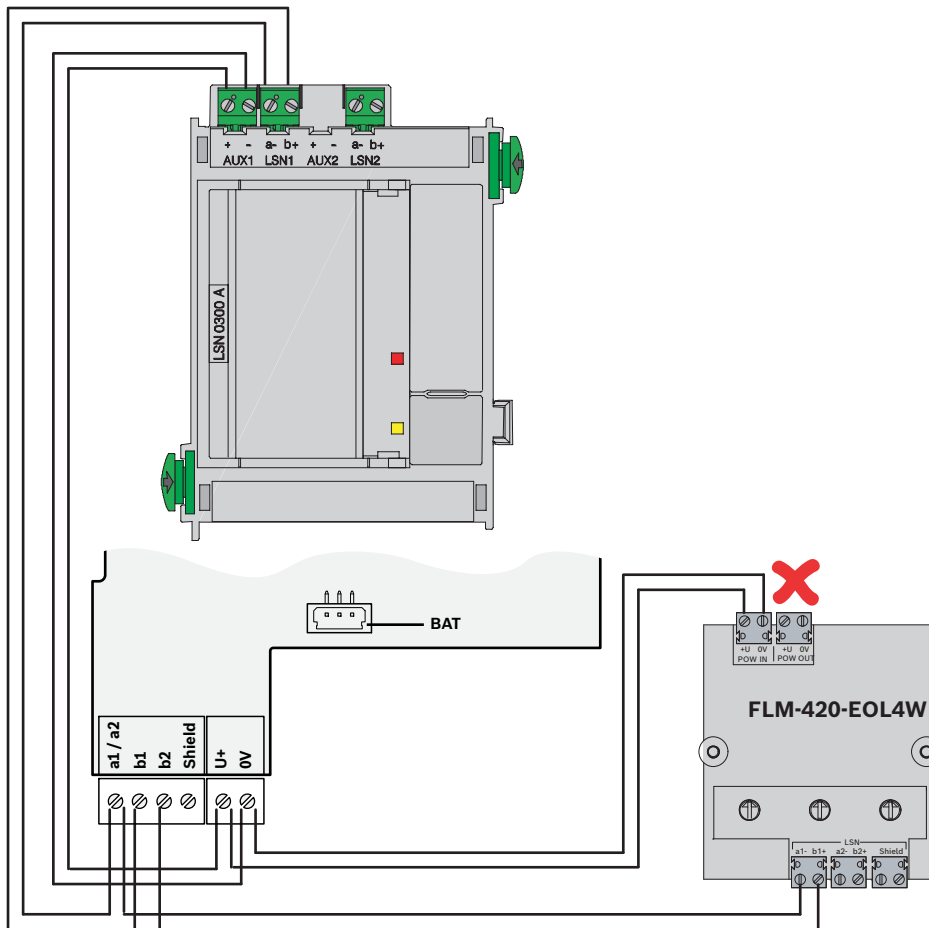


FWI-270

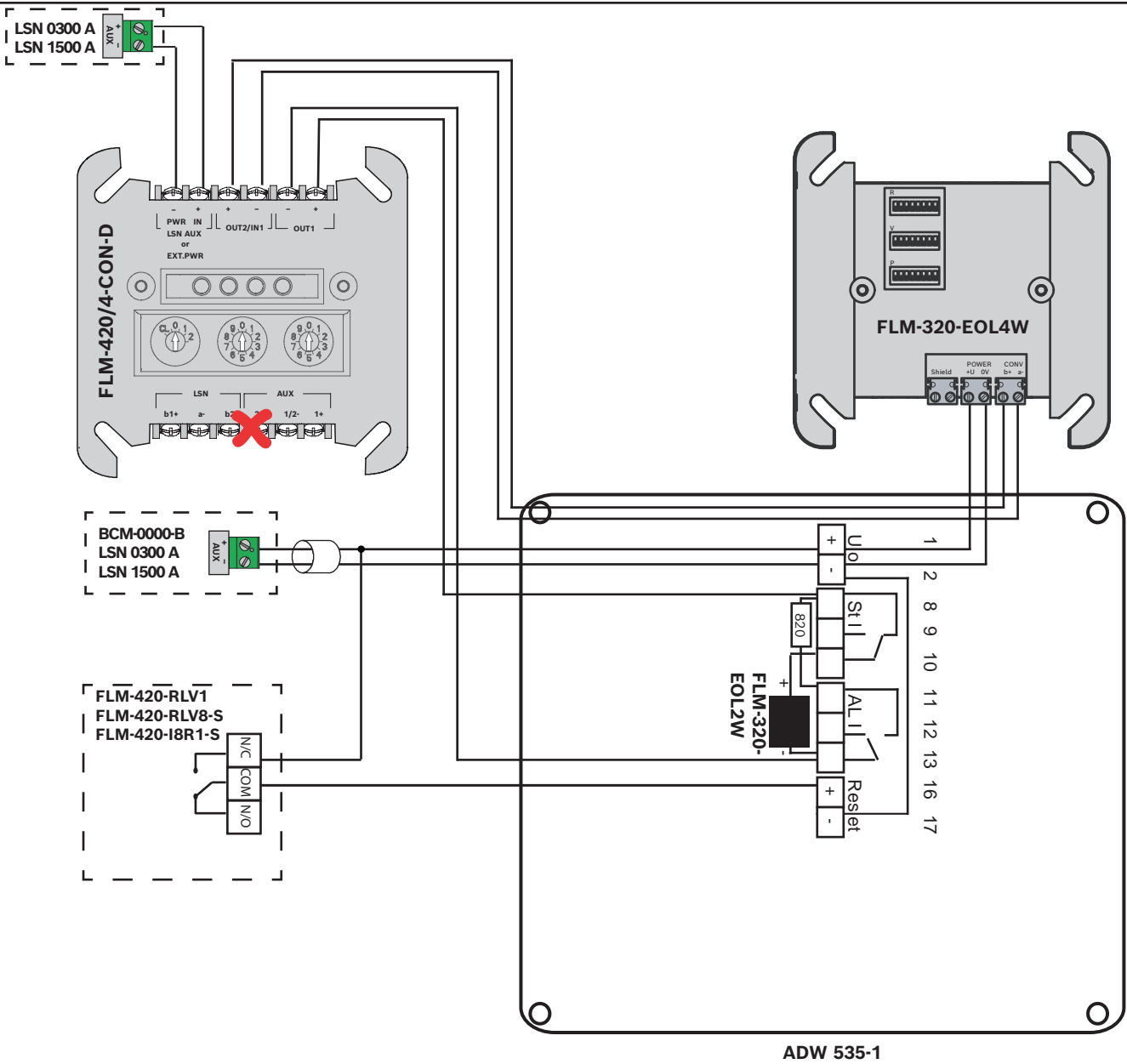
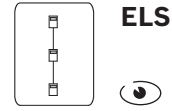
FDOOT271-O
FDM275-O
FDM273-O

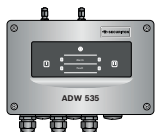


ELS

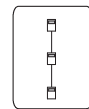


2.6.3 FLM-420/4-CON-S/D

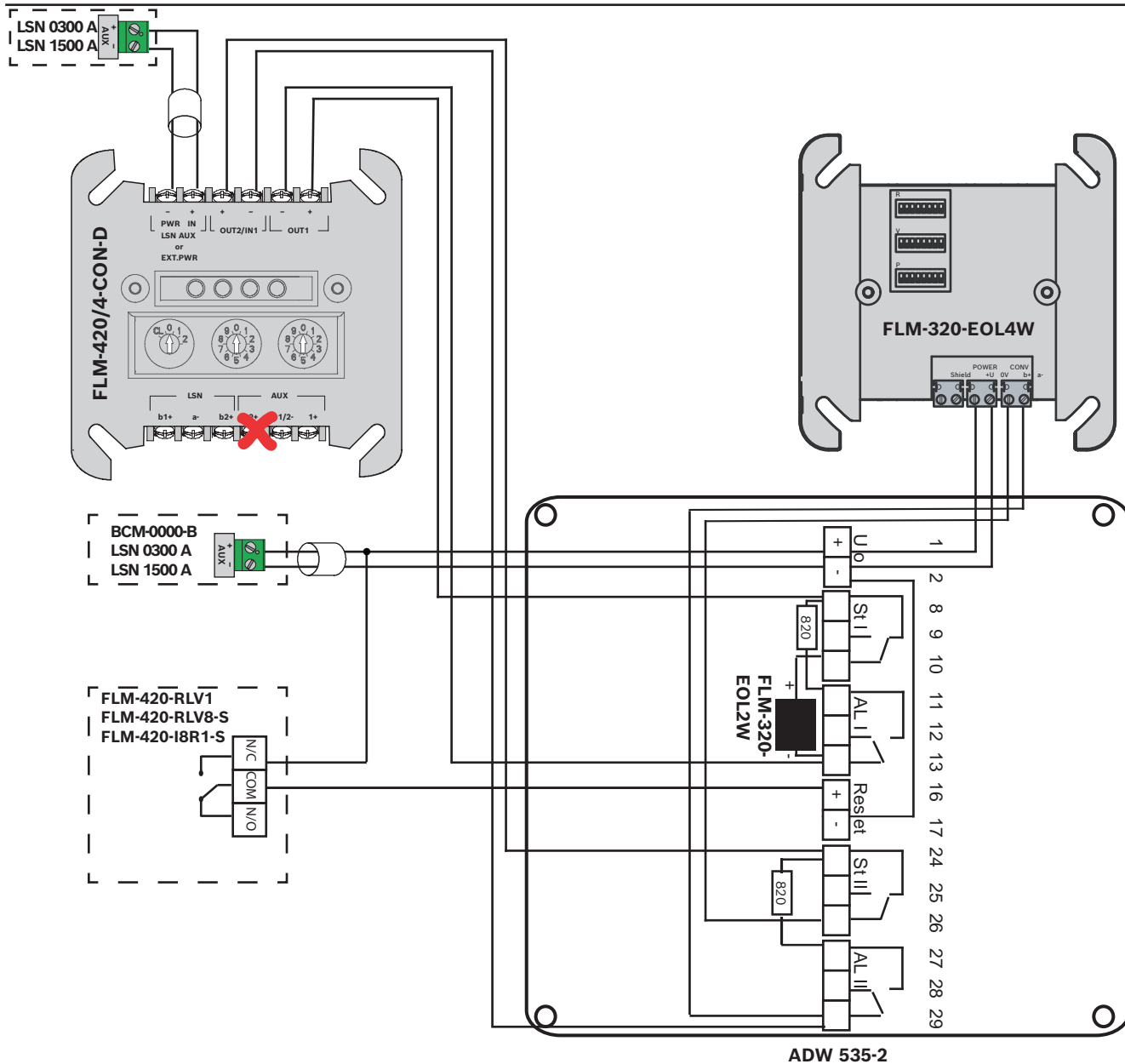


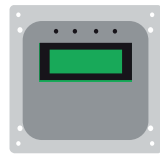


ADW 535-2



ELS

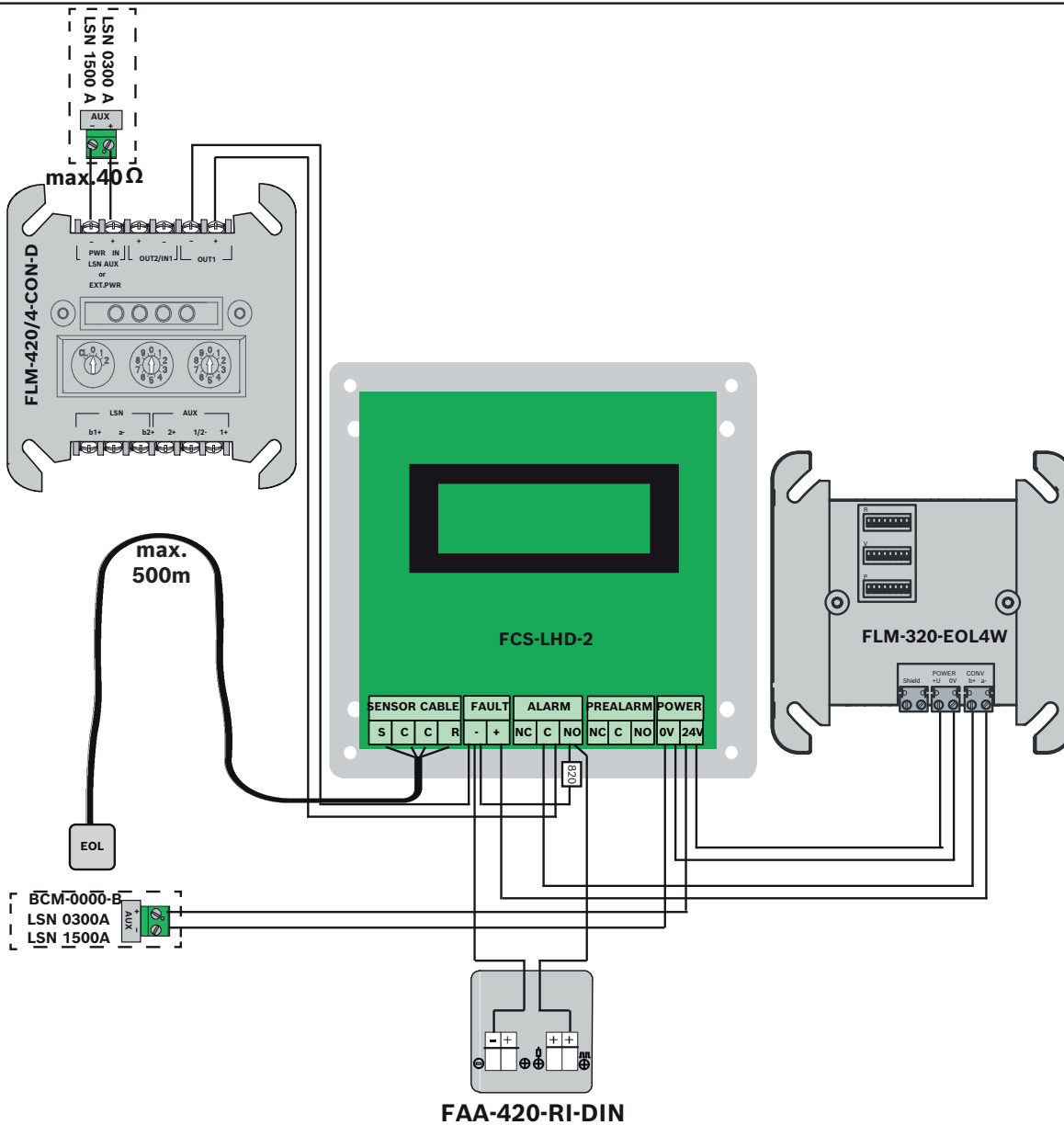




ALARMLINE II

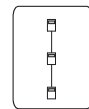


ELS

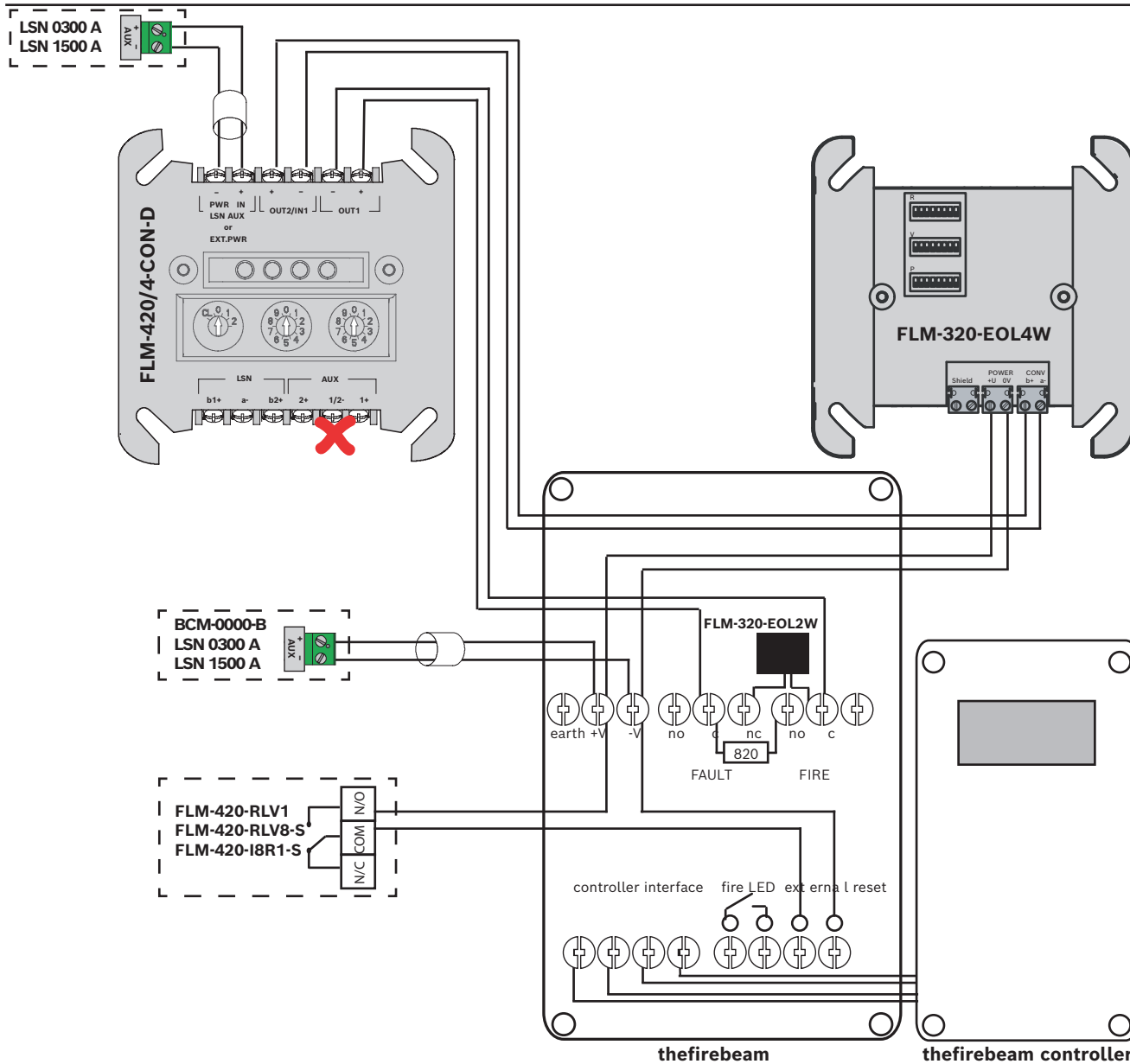


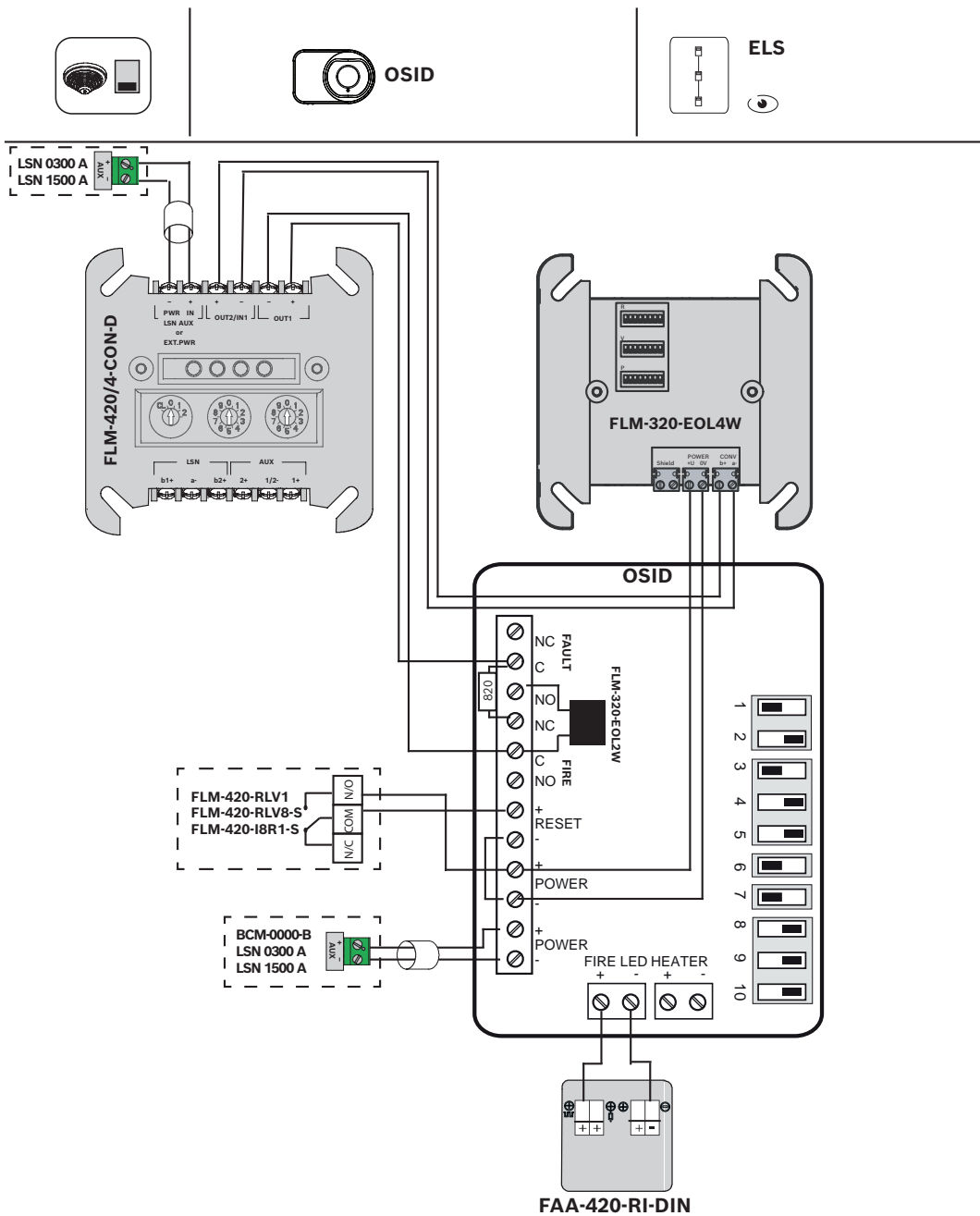


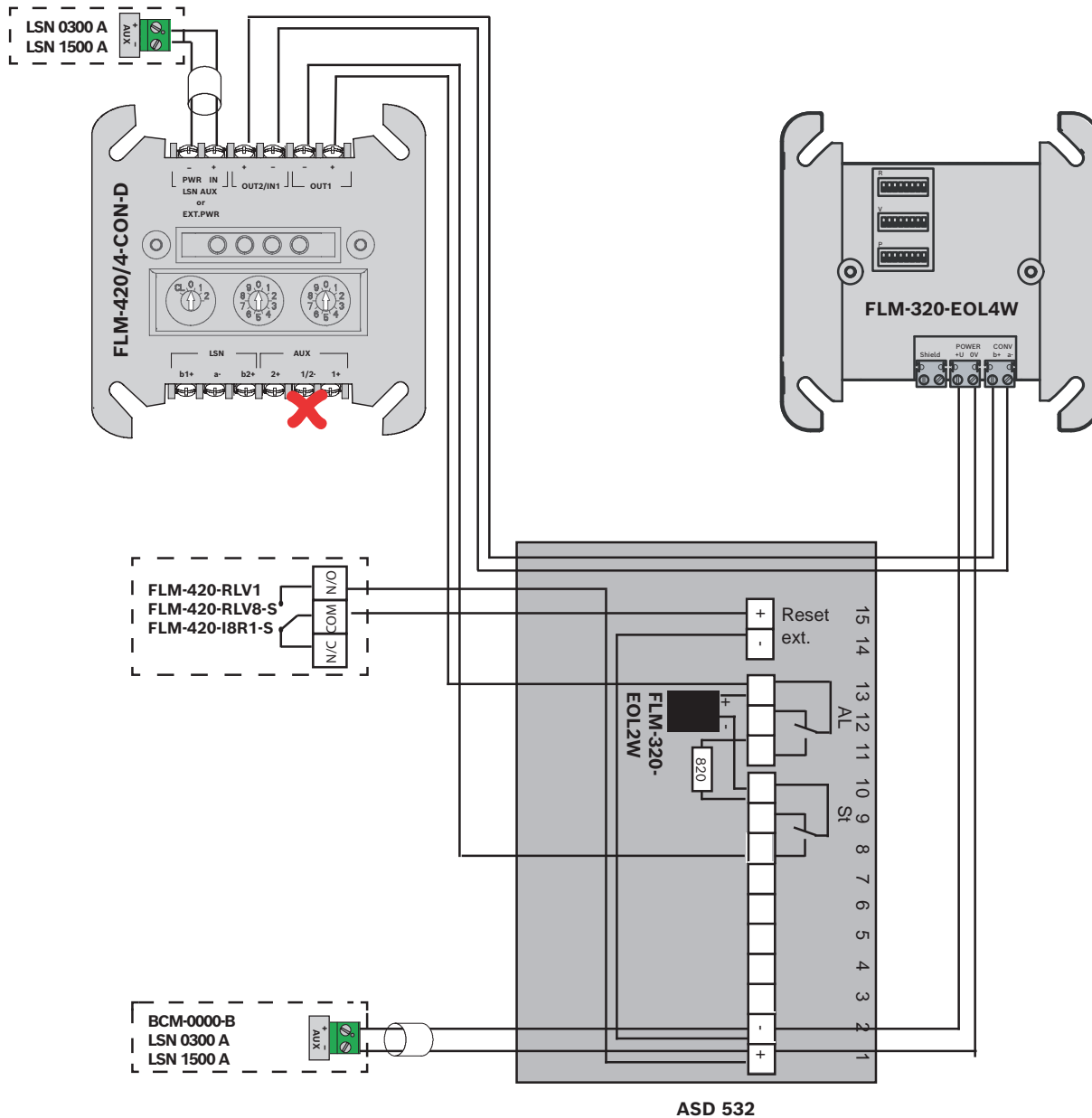
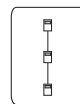
thefirebeam nano
thefirebeam standard
thefirebeam foveo

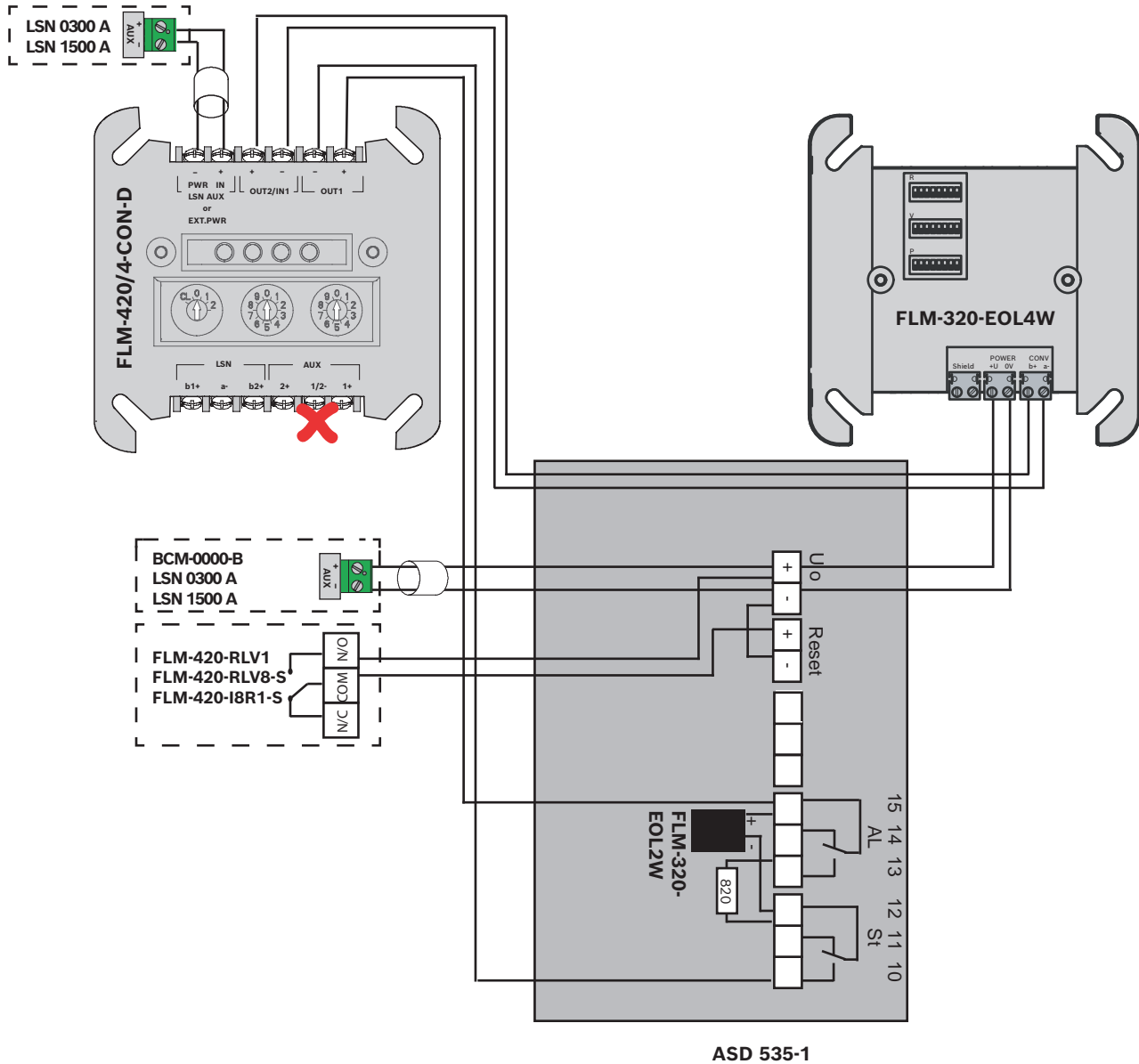
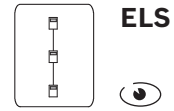


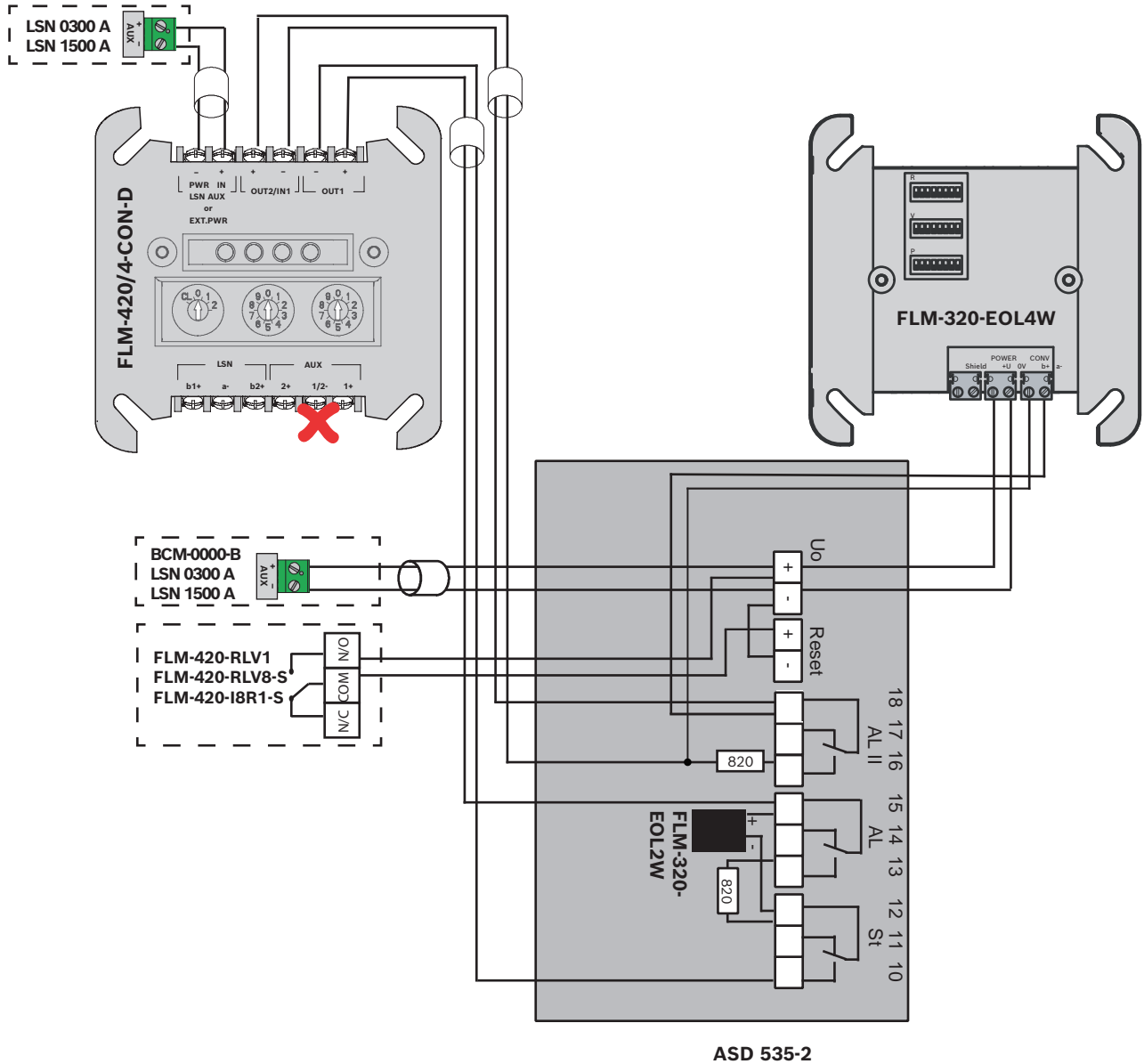
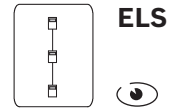
ELS





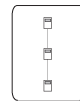




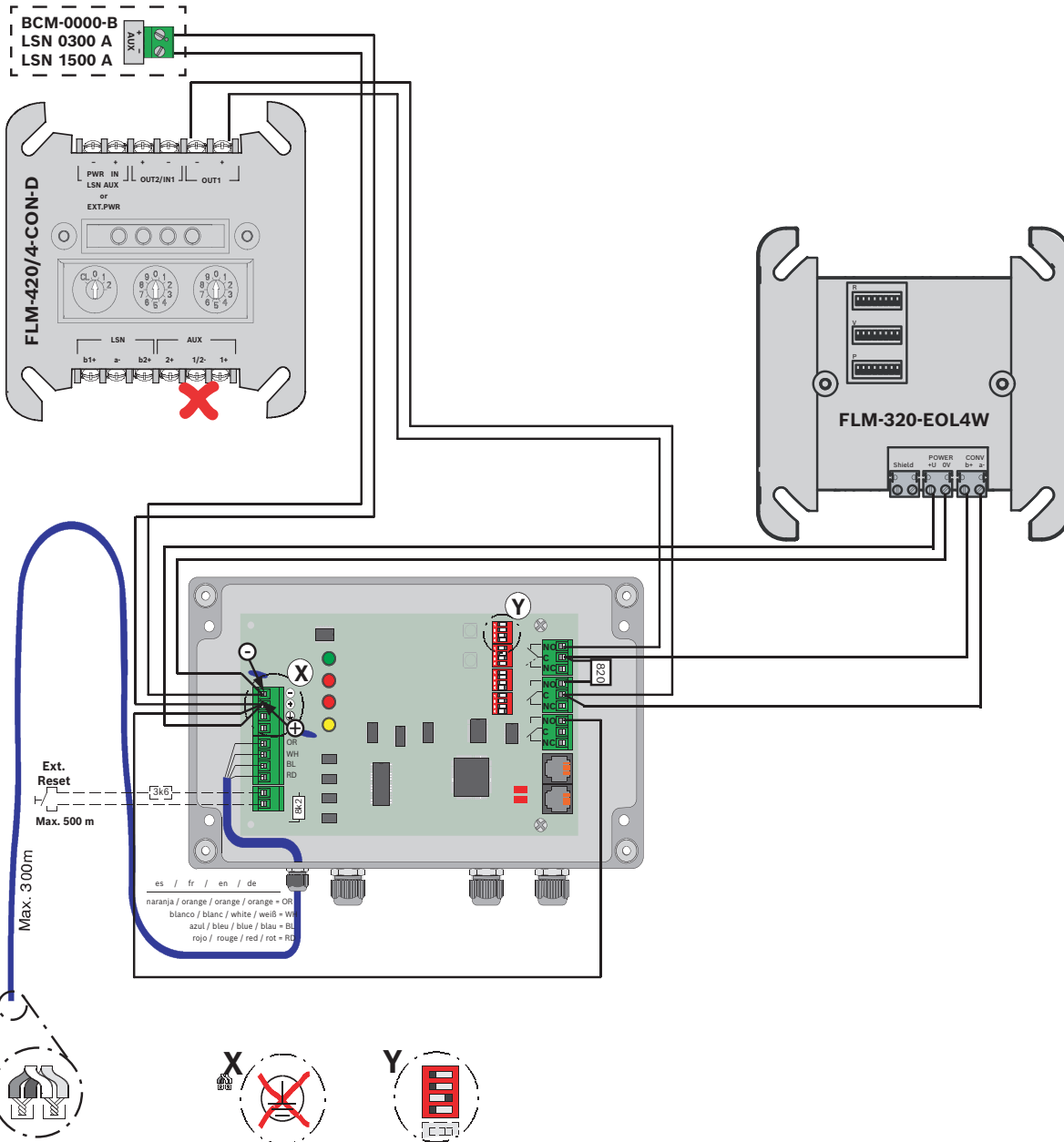


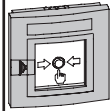
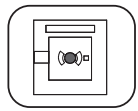


FCS-LWM-1

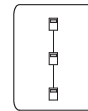


ELS

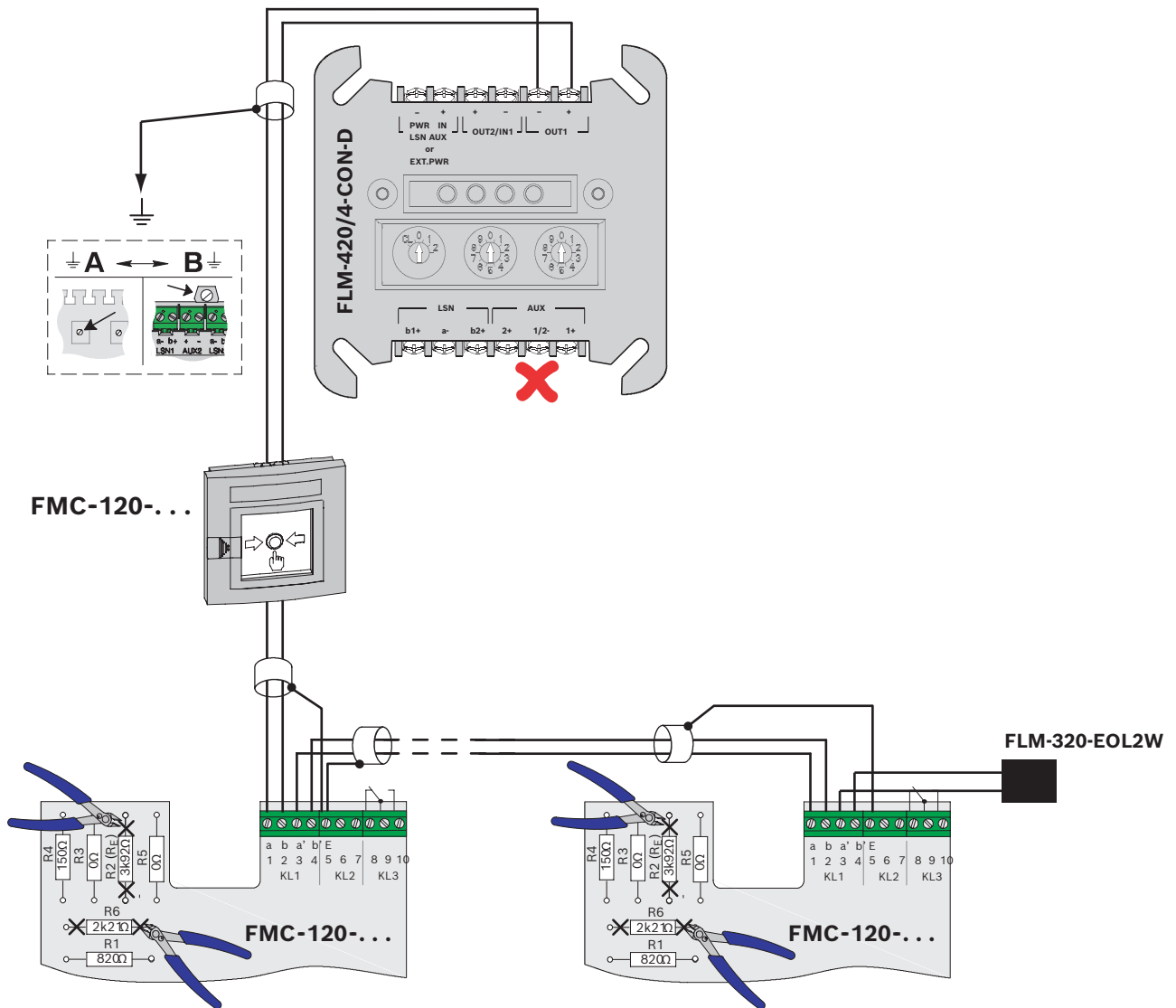


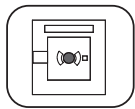


FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B

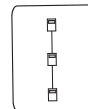


ELS

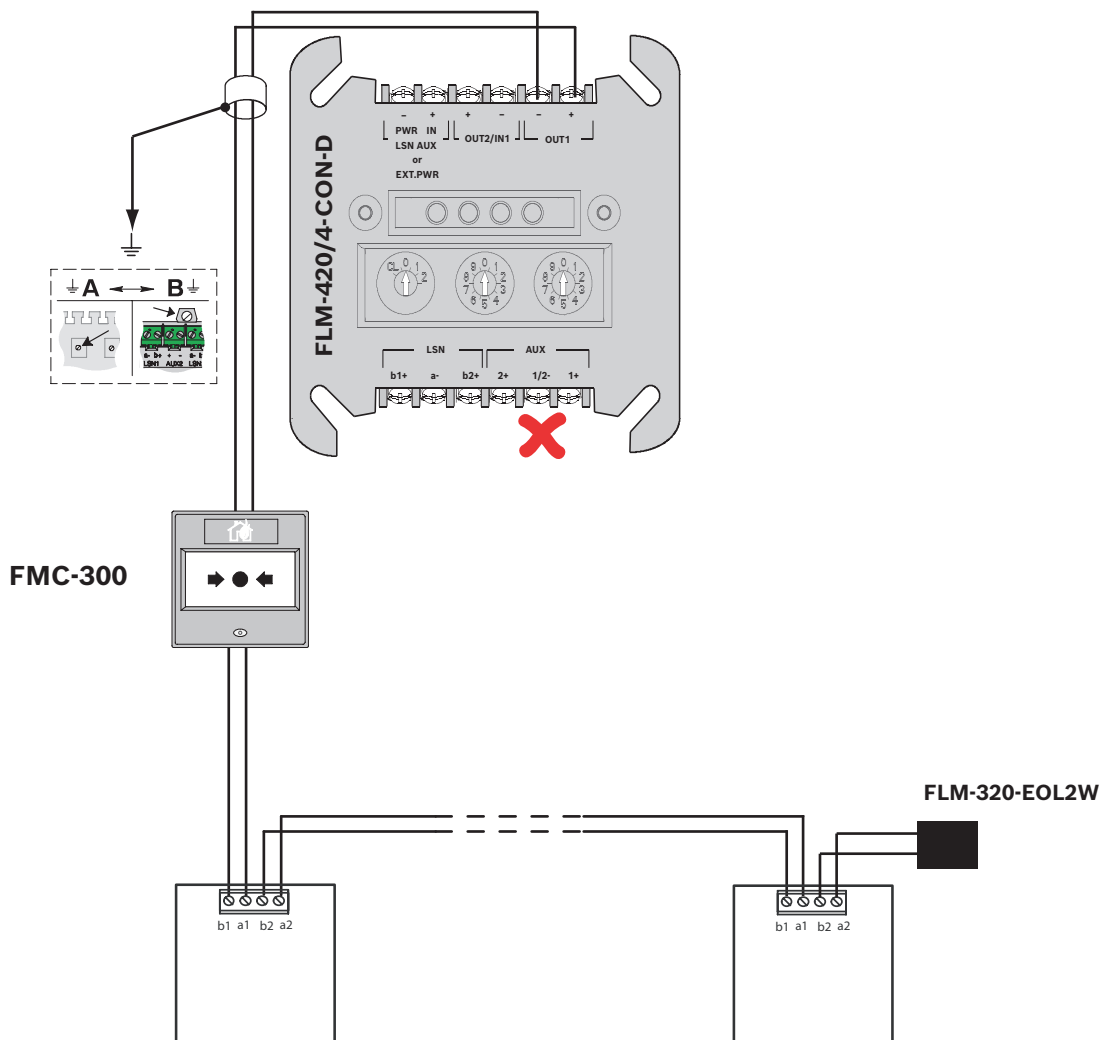


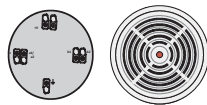


FMC-300



ELS

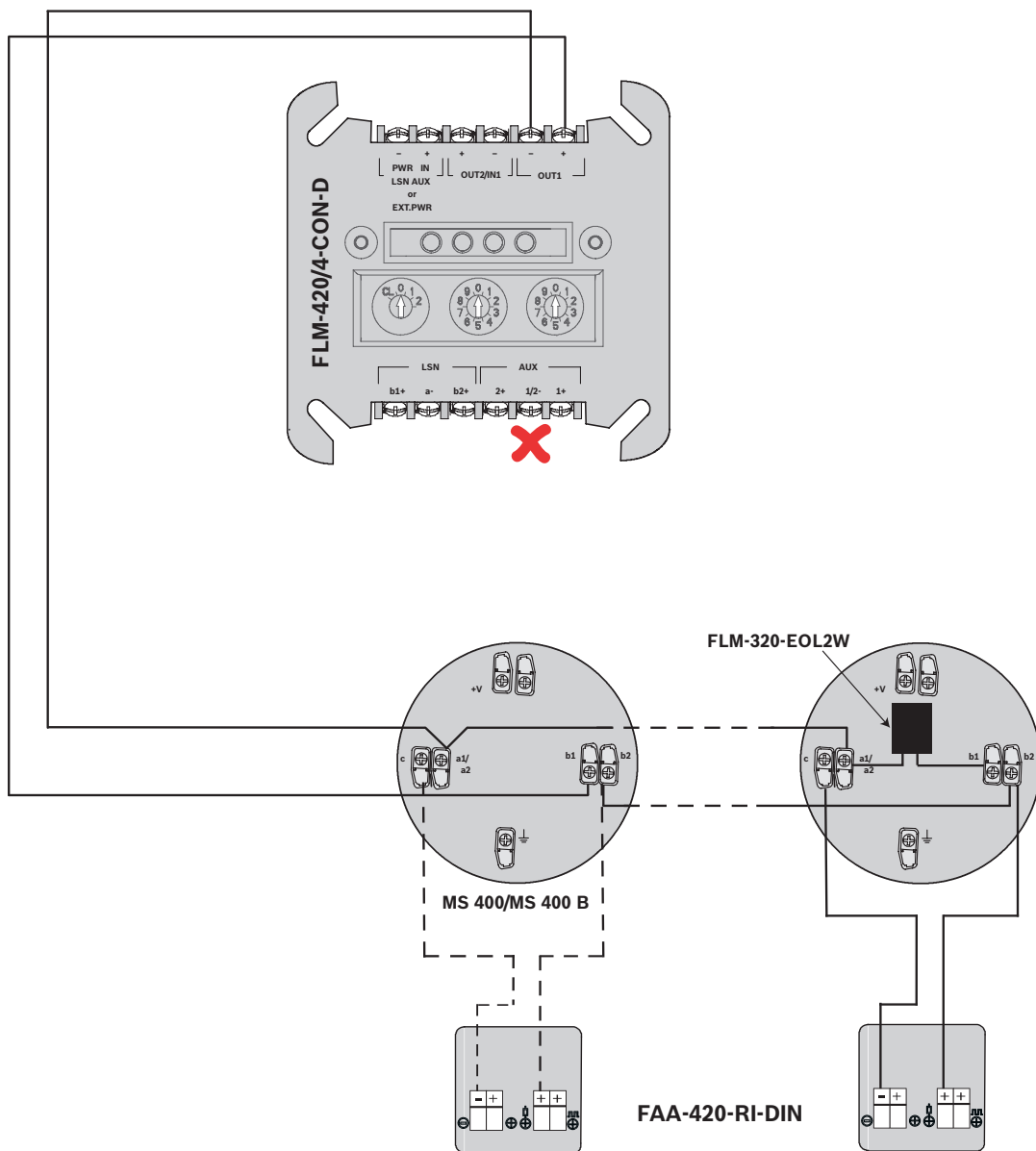




MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



ELS

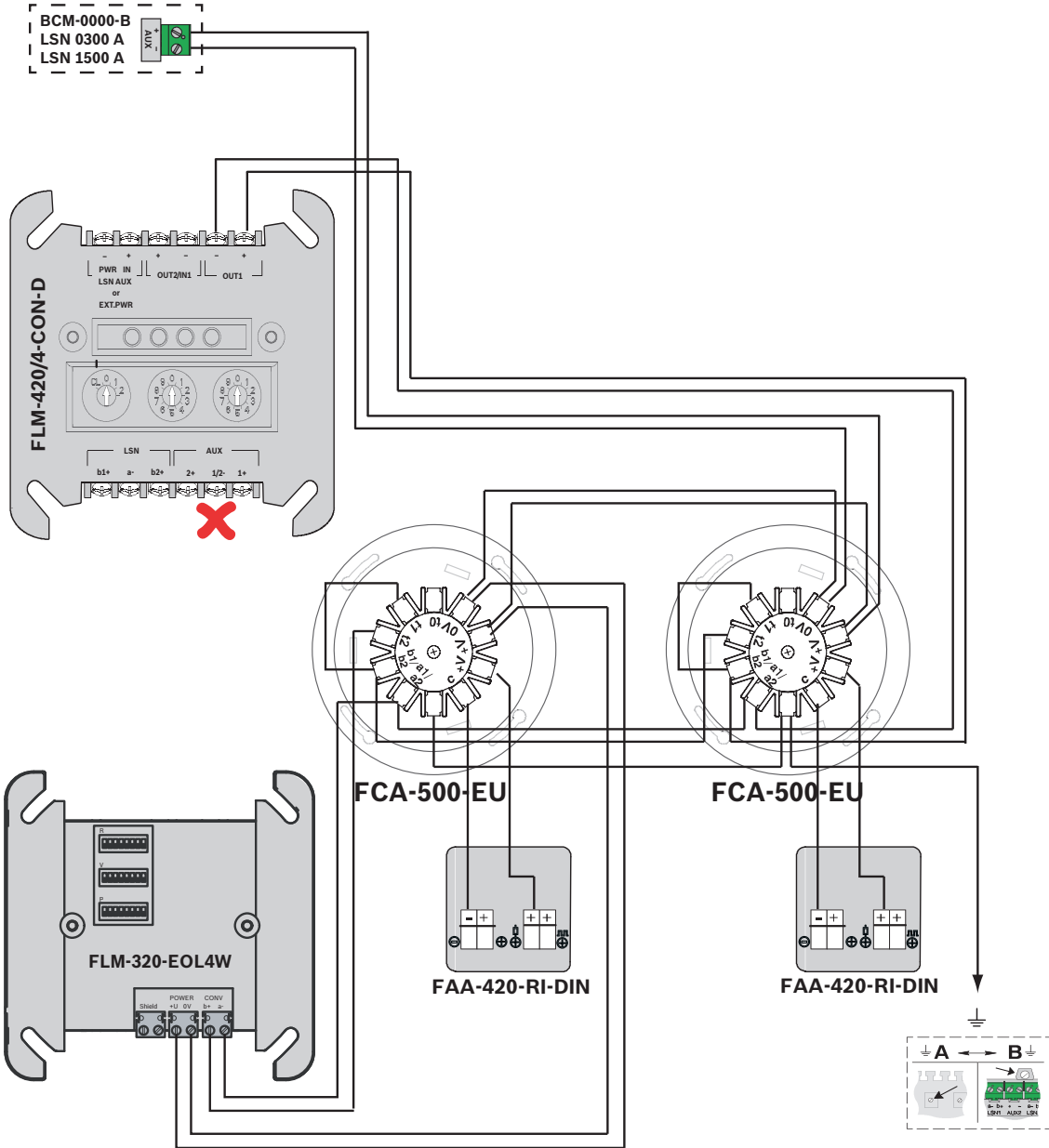


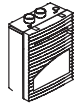


FCP-500

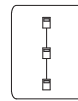


ELS

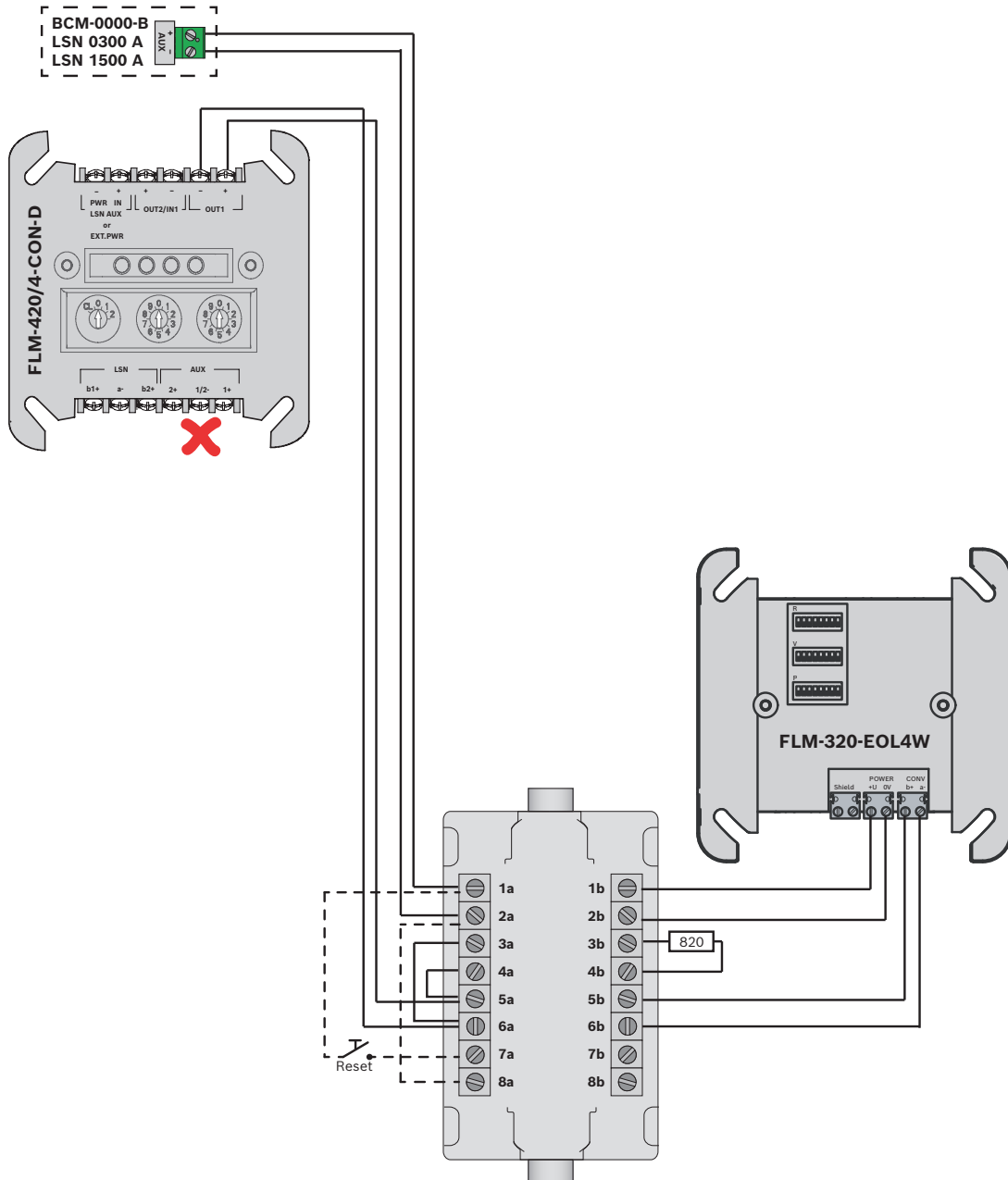


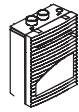


FCS-320-TM Series

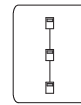


ELS



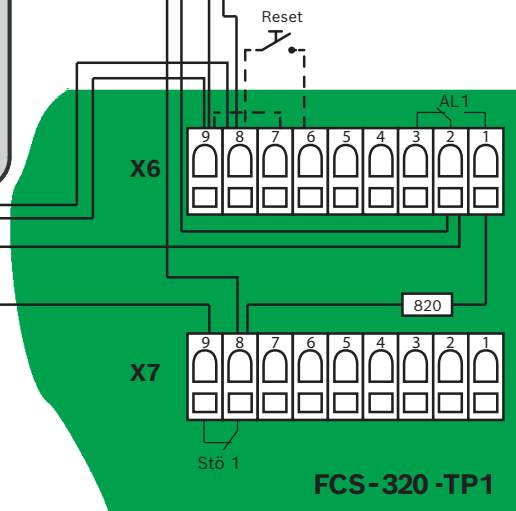
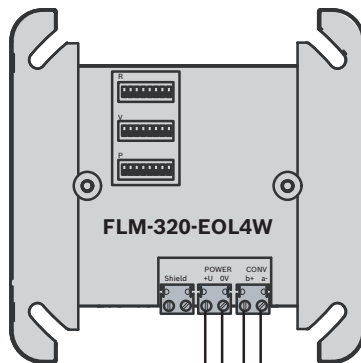
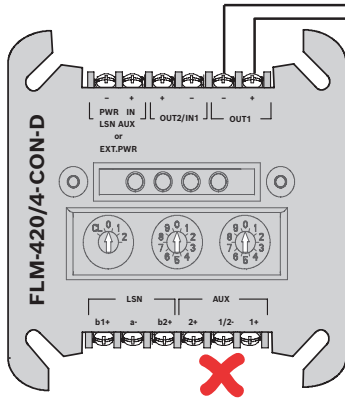


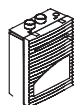
FCS-320-TP Series



ELS

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LSN 1500 A



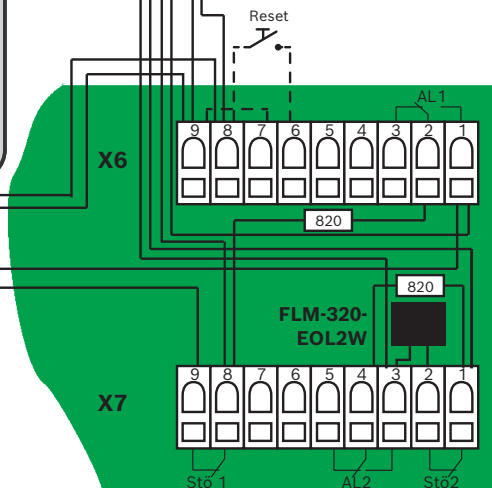
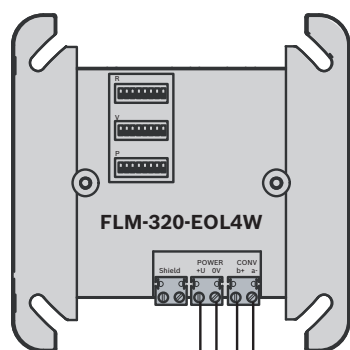
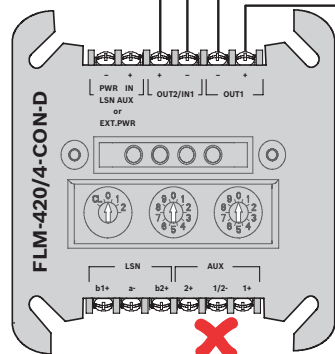


FCS-320-TP Series

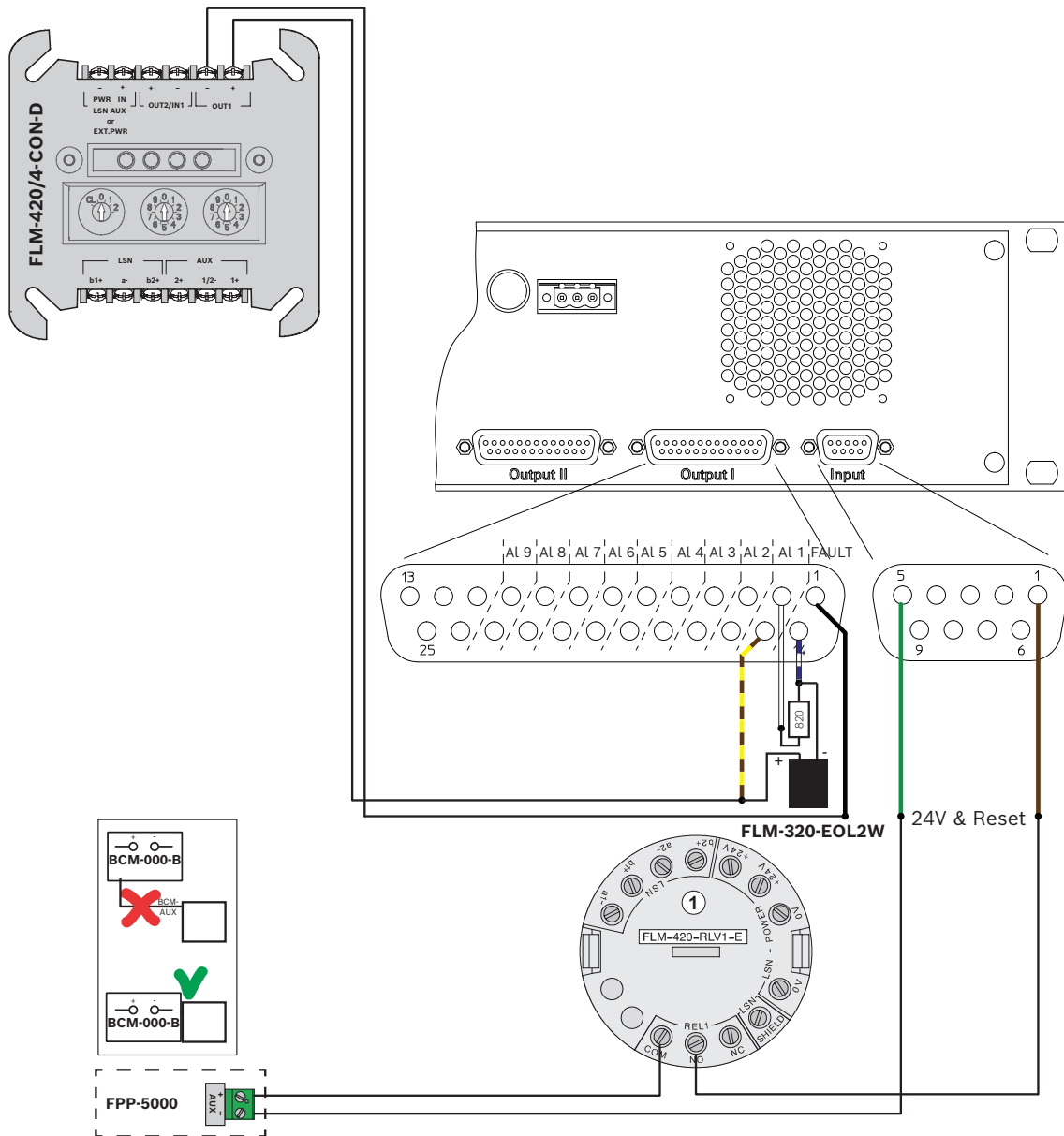
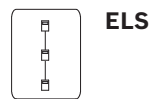


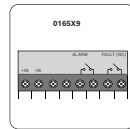
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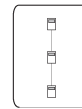


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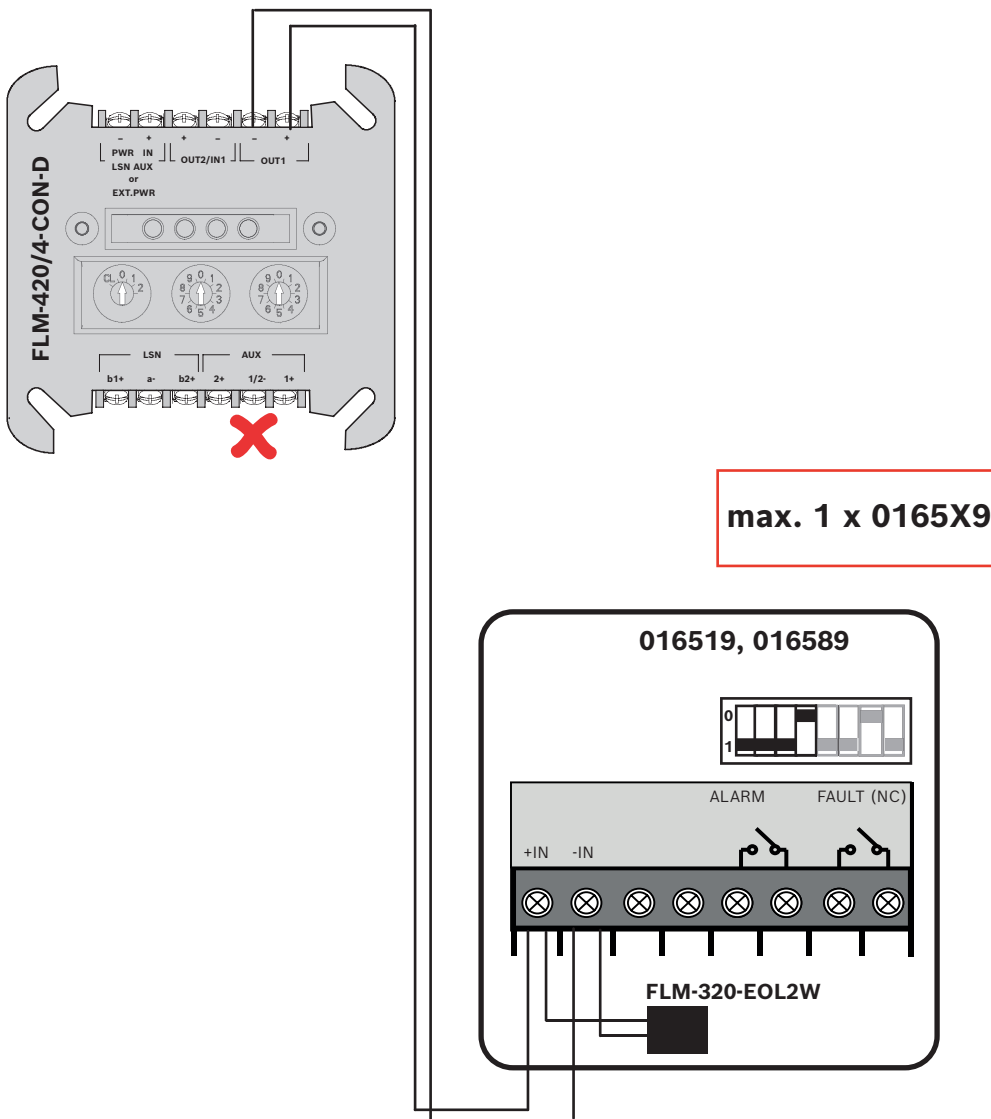


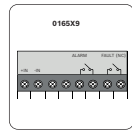


016519, 016589
IR3 Flame Detector

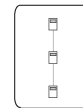


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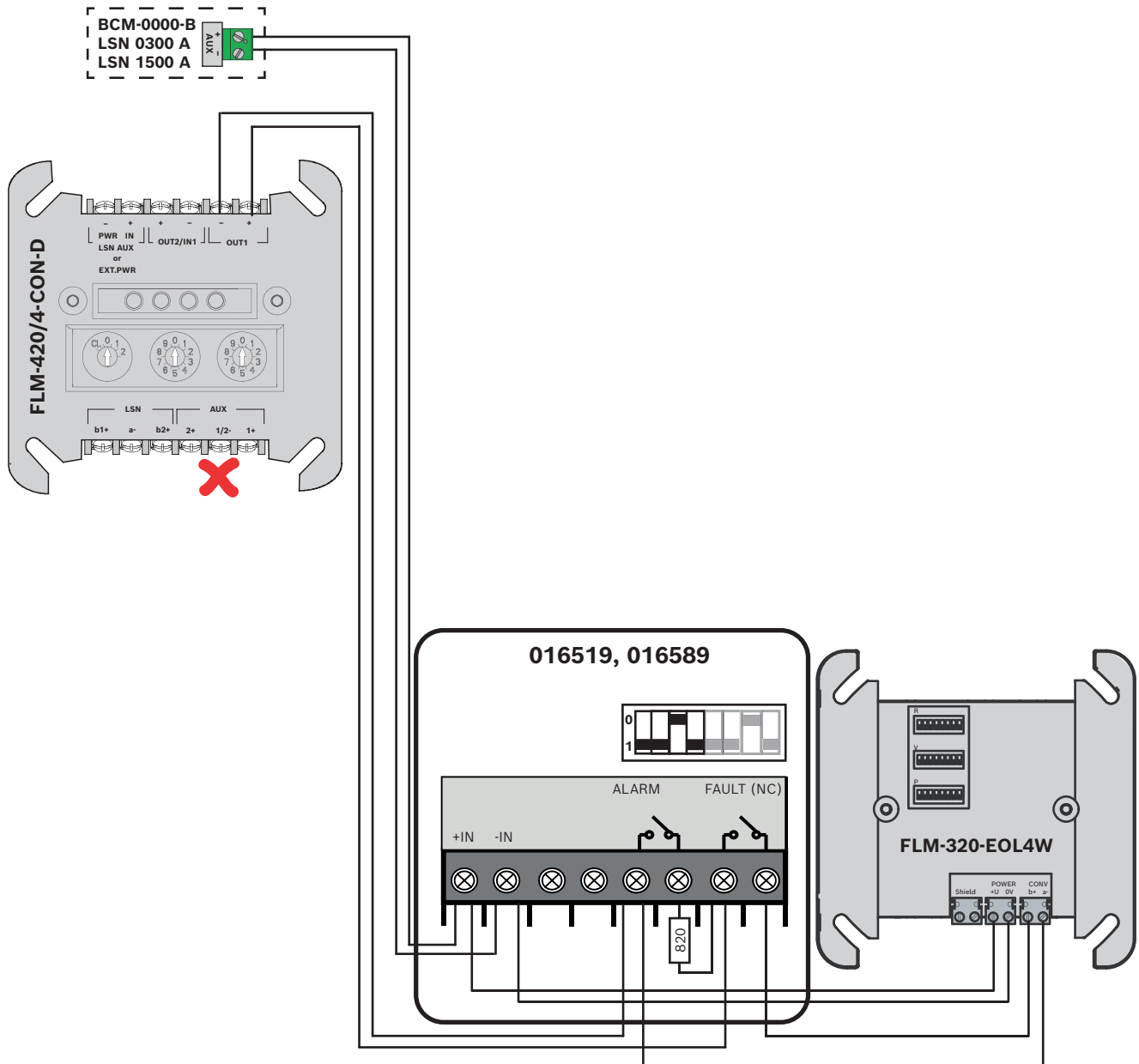




016519, 016589
IR3 Flame Detector

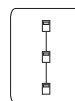


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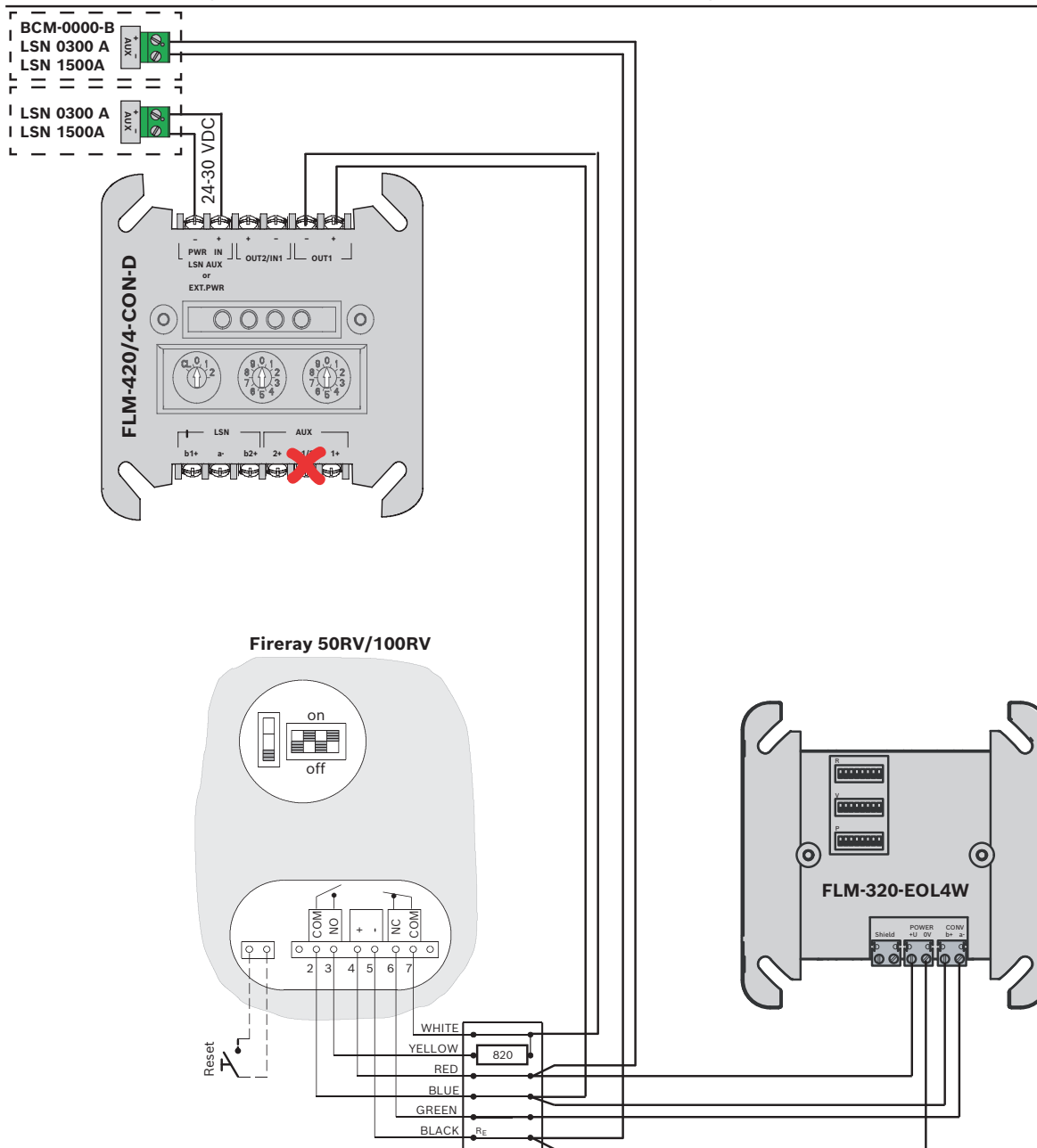


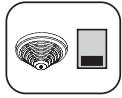


**Fireray 50RV
Fireray 100RV**



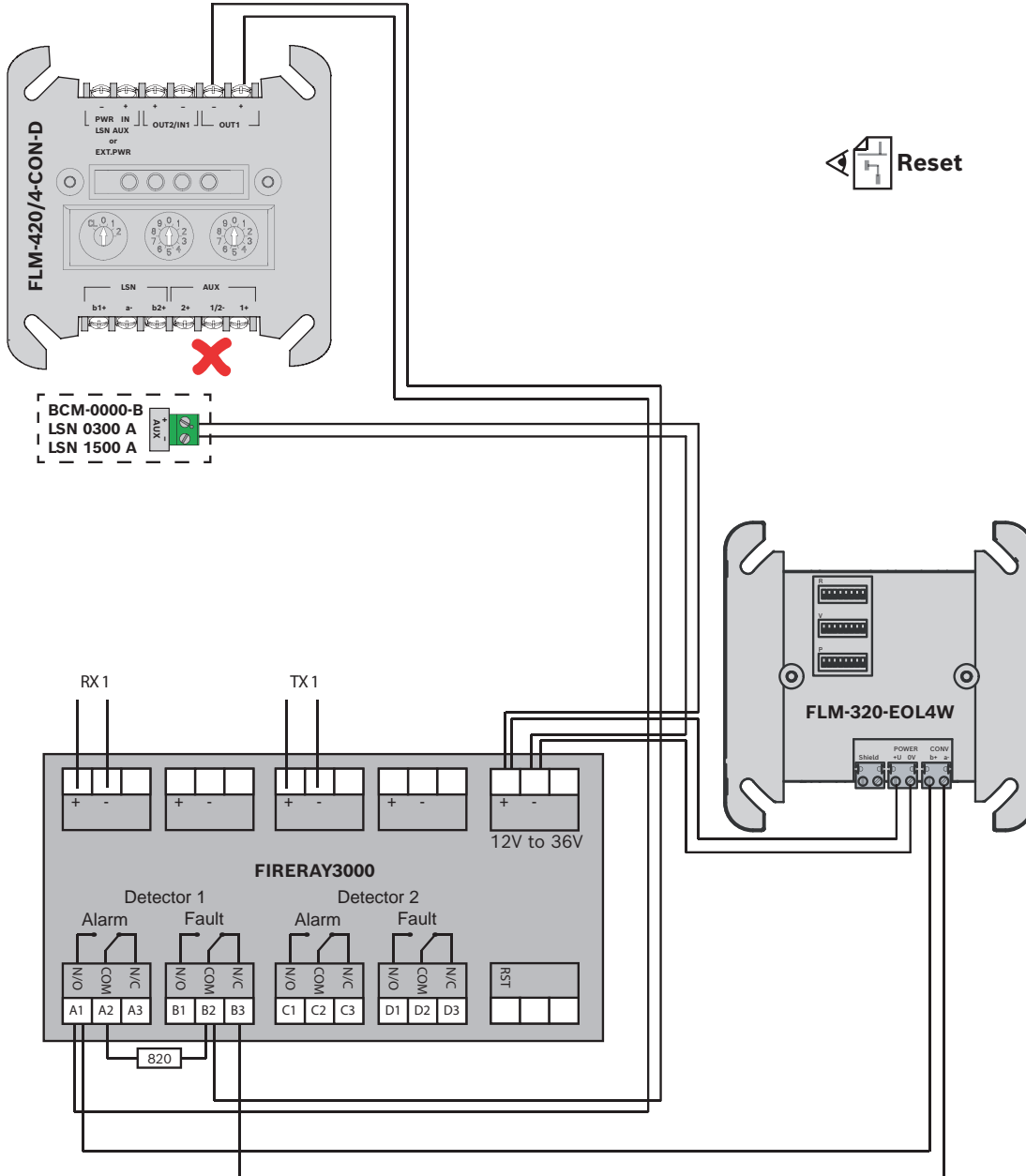
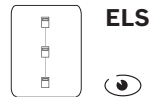
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FIRERAY3000

1 x

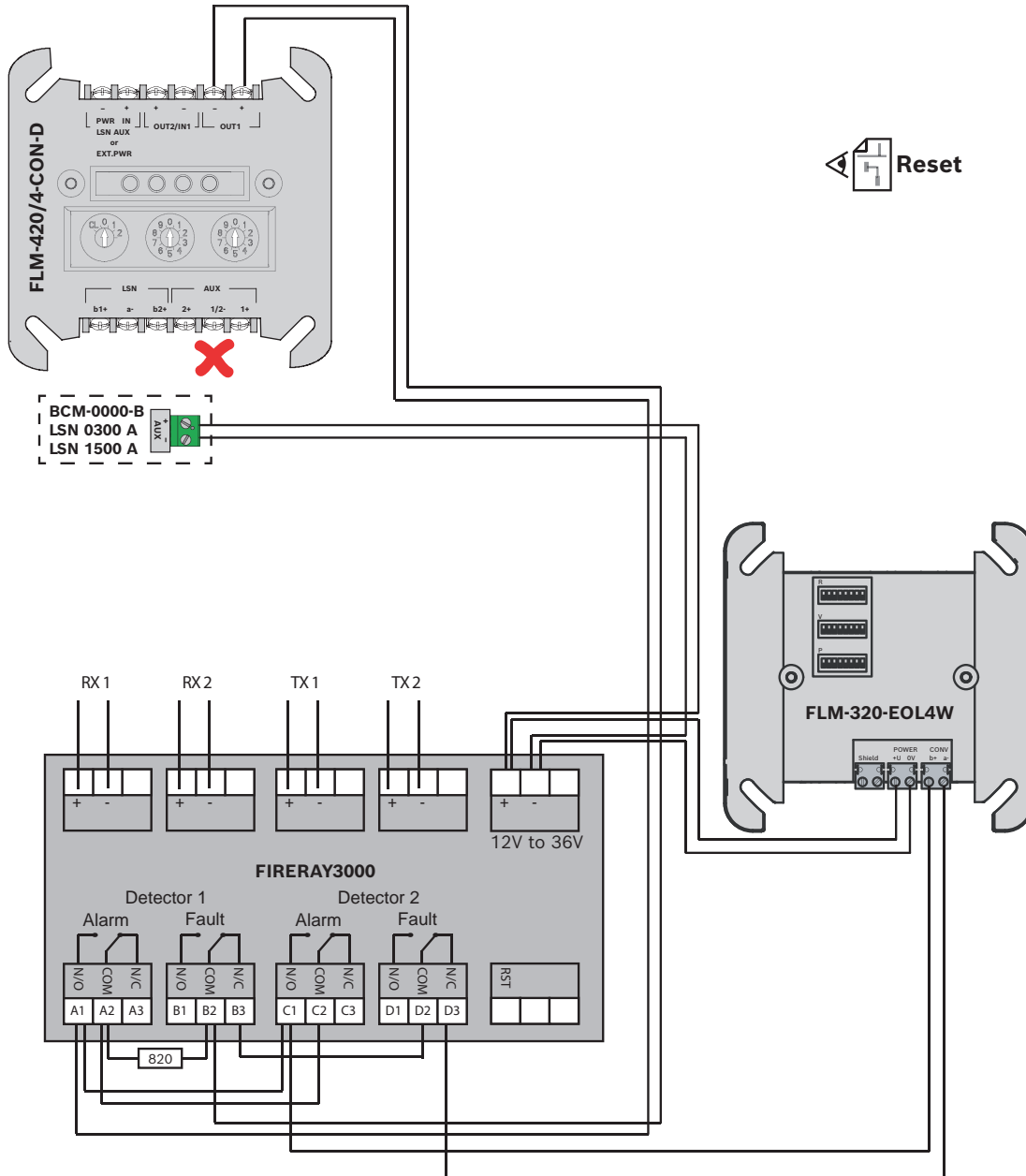




FIRERAY3000
2 x  **OUT1**



ELS

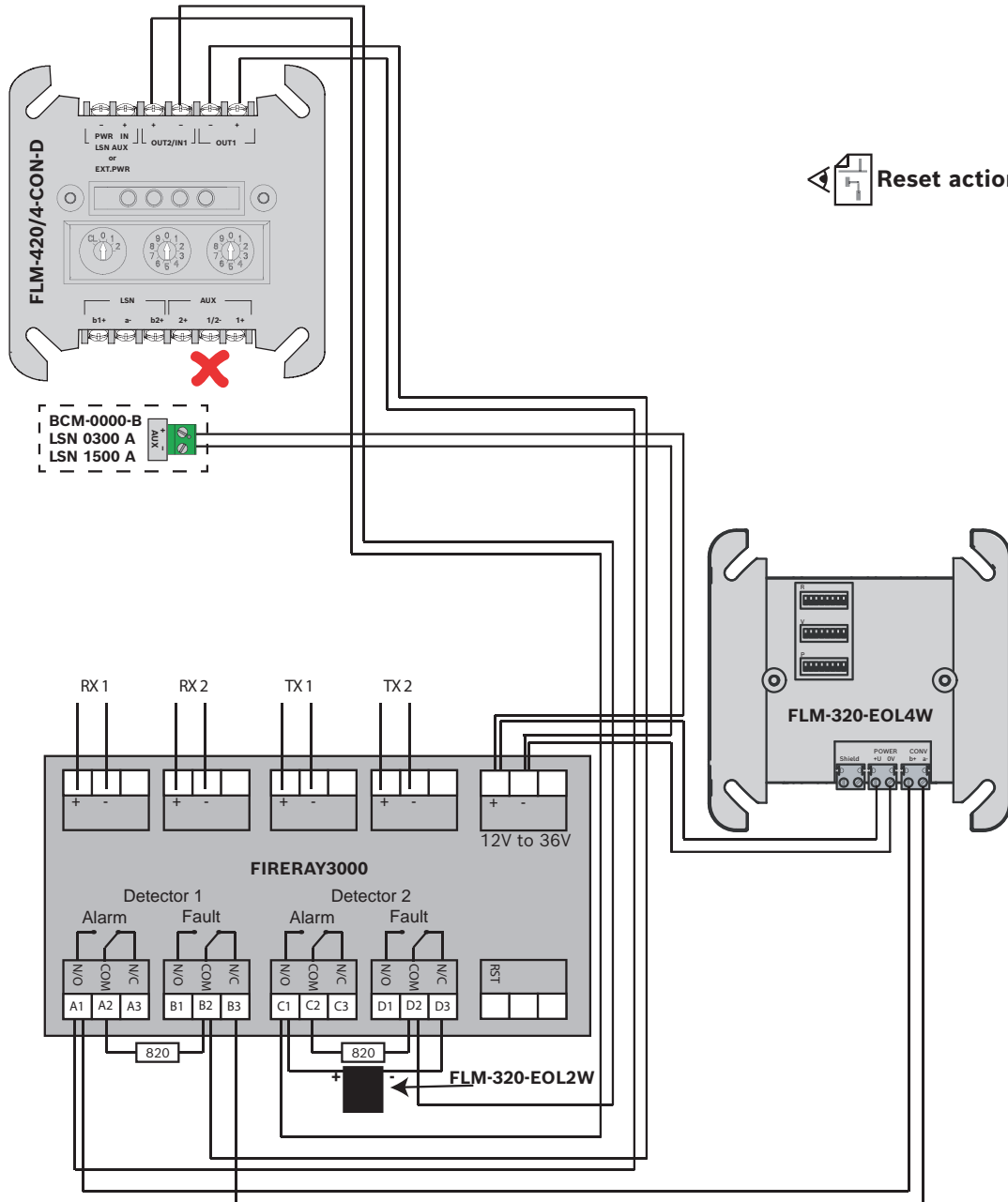




FIRERAY3000
2 x  **OUT1+2**



ELS

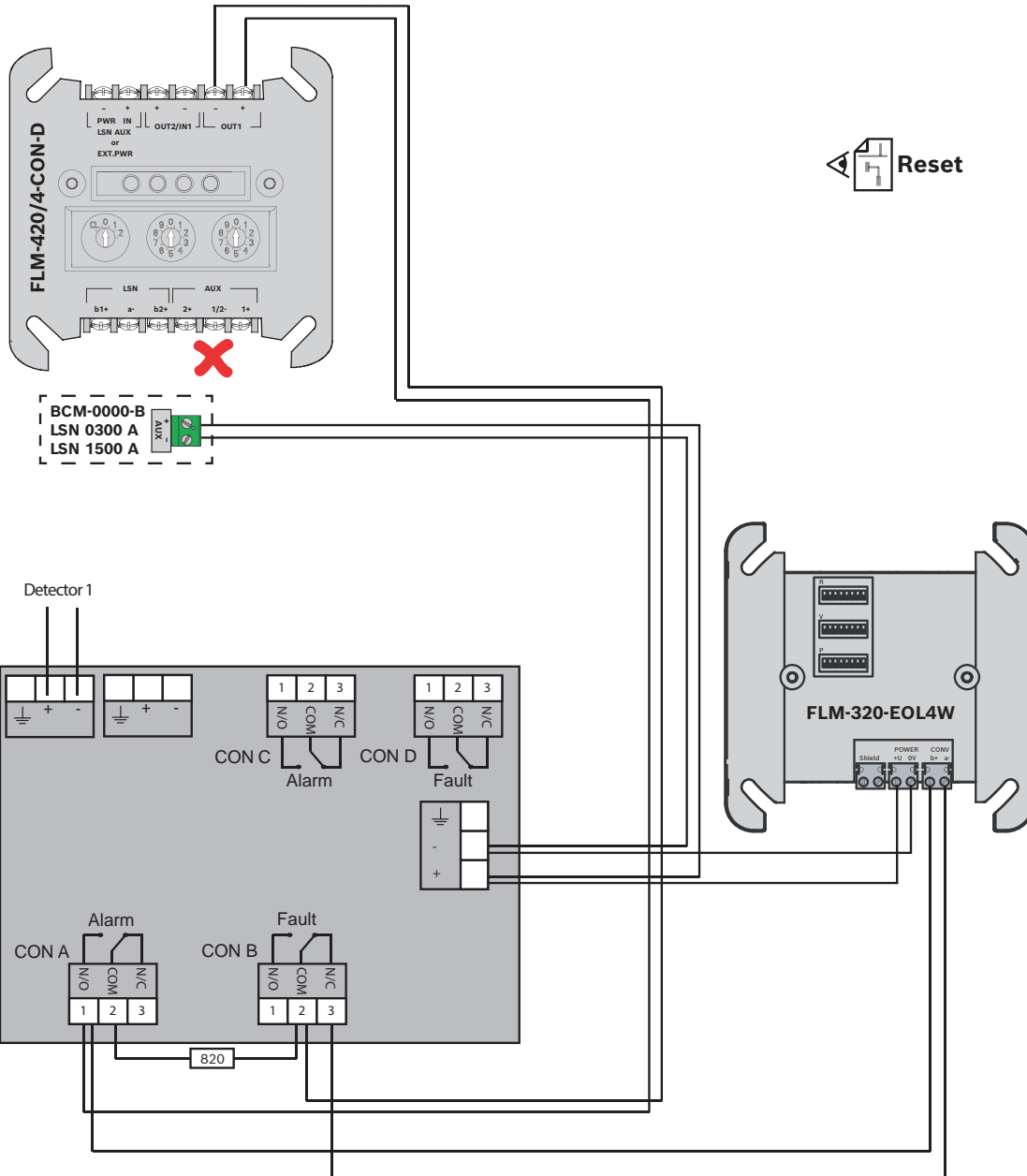


FIRERAY5000

1 x



ELS



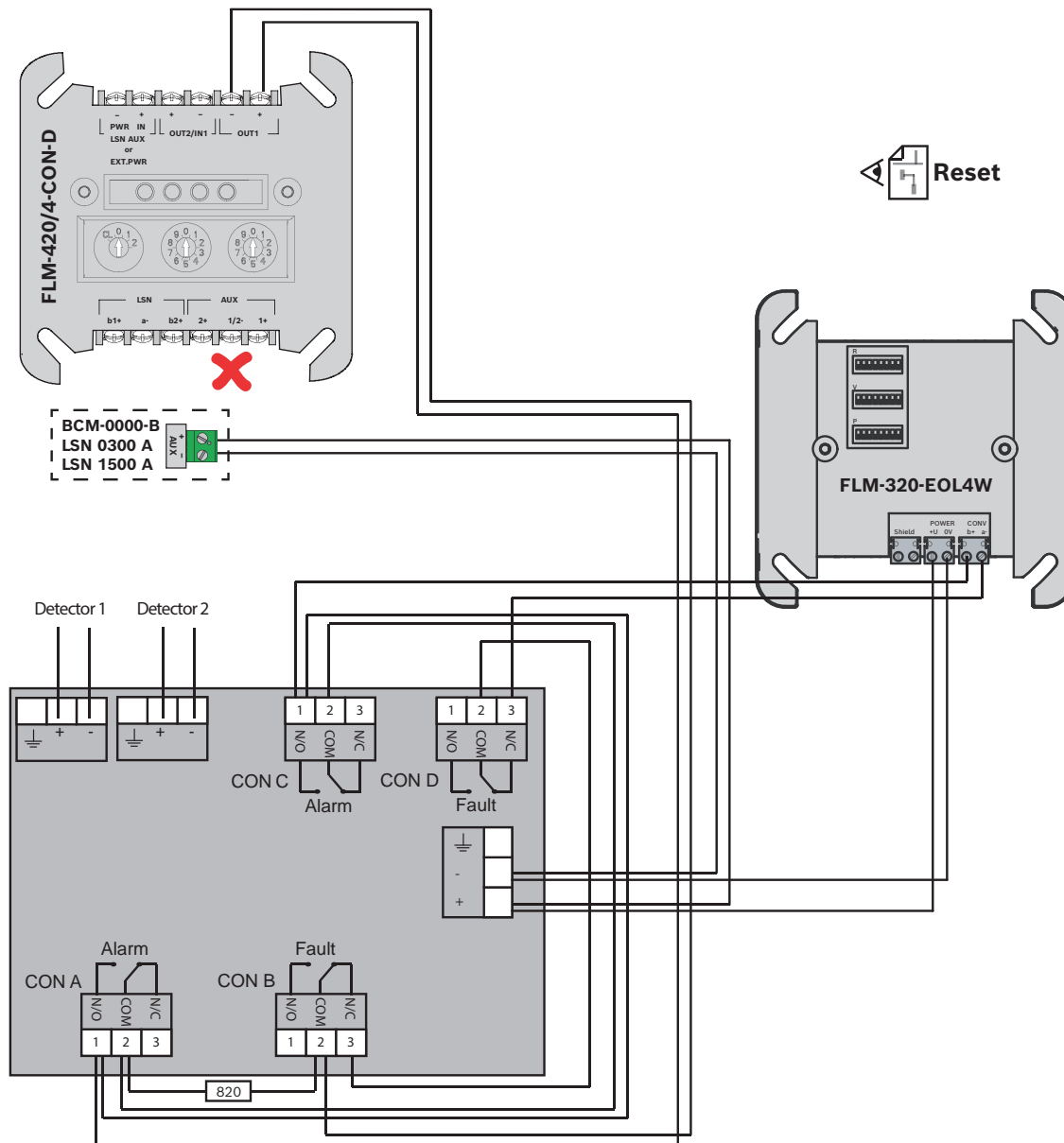


FIRERAY5000

2 x **OUT1**

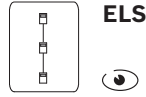


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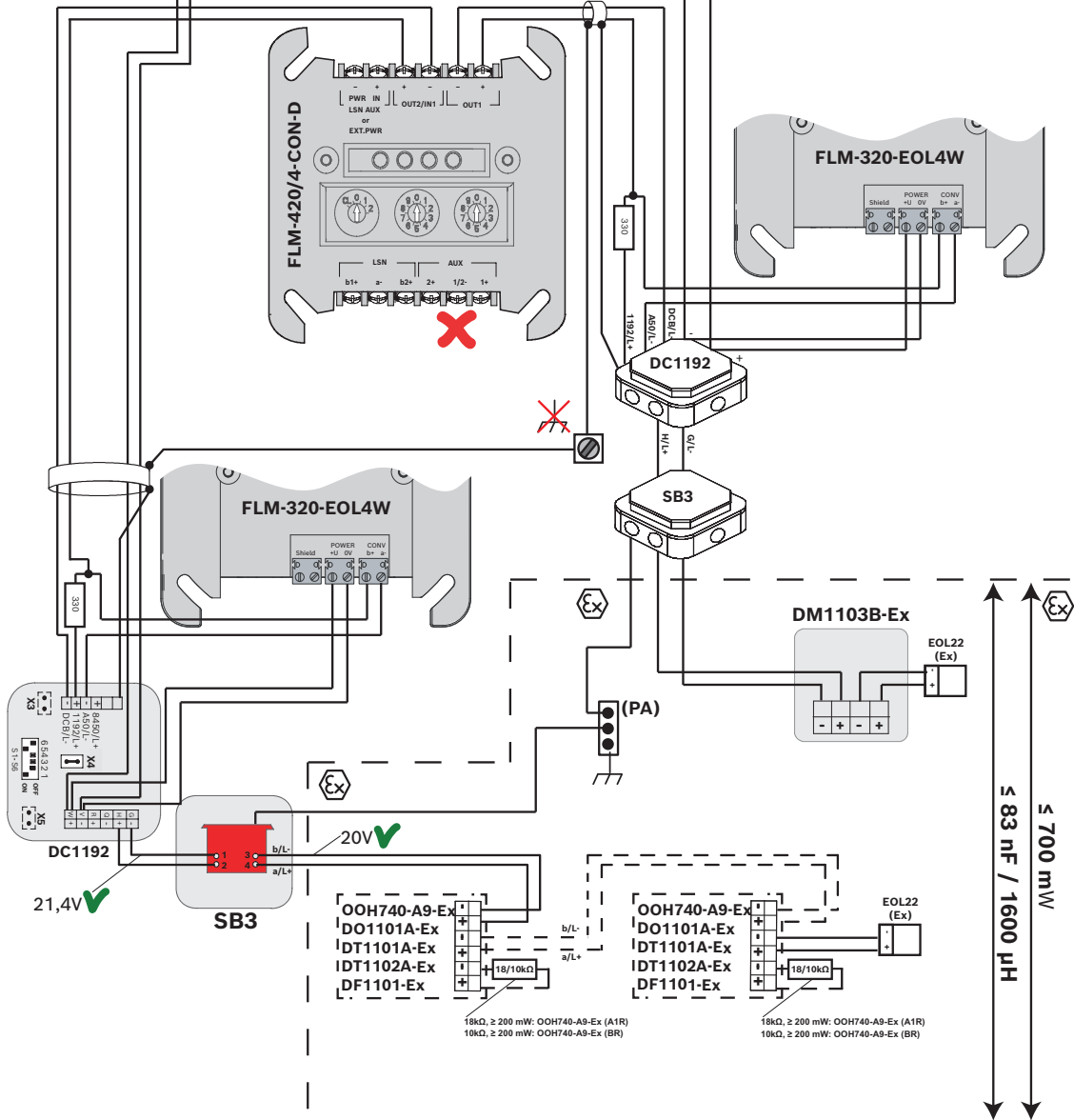


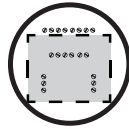
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 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



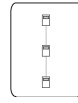
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BCM-0000-B
 LSN 0300 A
 LSN 1500 A

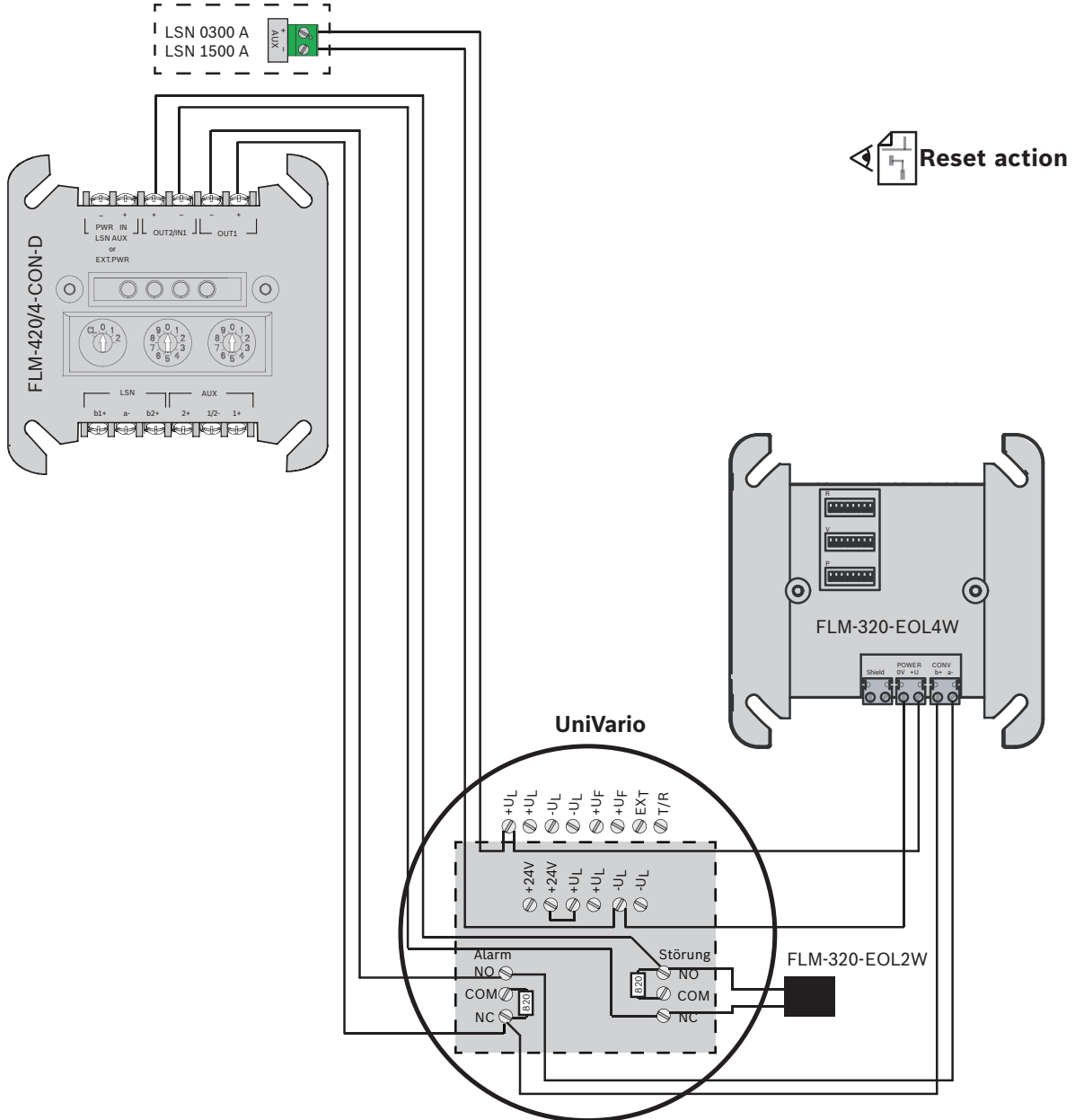




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UniVario FMX5000
UniVario KMX5000



ELS



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