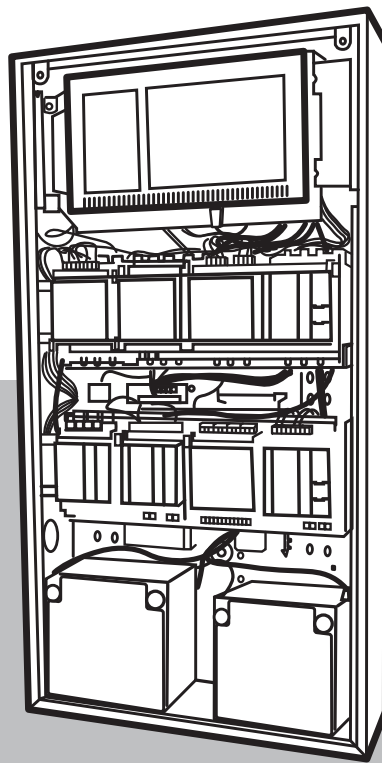


AVENAR panel series



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1 Примечания

1.1 Содержание

В настоящем Руководстве по подключению содержится общая информация о подключении периферийных устройств к пожарной панели. Государственные и местные правила не учитываются. Для исполнения государственных и местных требований может понадобиться большее число подключений.

**Замечание!**

Подключения, описанные в настоящем документе, относятся также к AVENAR panel 2000 при условии, что отдельные компоненты представляют собой расширения AVENAR panel 2000, утвержденные Bosch Sicherheitssysteme GmbH.

**Замечание!**

Подключения LSN 0300 A, описанные в этом документе, также актуальны для модуля LSN 1500 A.

Примите во внимание, что при установке модуля LSN 1500 A в Германии, где необходимо соответствие стандарту VdS 2540, линия AUX и линия LSN должны быть реализованы как отдельные кабели.

1.2 Информация о продуктах

- Инструкции по установке отдельных компонентов пожарной панели содержатся в прилагаемом Руководстве по установке.
- Дополнительные сведения (руководства пользователя, руководство по сетевому подключению, сведения о системе) доступны в Интернете: www.boschsecurity.com

1.3 Важные замечания

- Используйте только установочные материалы, рекомендуемые Bosch Security Systems.
- Работы по модификации и пайке следует выполнять только с использованием антистатического браслета.
- Сборка и установка должны выполняться только квалифицированным персоналом.
- Следует руководствоваться региональными нормами при выборе типа подключения.



Опасно!

Прикосновение к компонентам под напряжением может привести к смертельному исходу. Отключите питание перед началом монтажа.

Экранированный кабель

Экранированный кабель необходим для всех двухпроводных подключений к модулю CZM 0004 A, а также для подключения следующих продуктов:

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

Следующий пример подключения демонстрирует, как использовать экранированный кабель.

Замечание!

Если необходимо подключить экранированный кабель LSN, следуйте спецификациям LSN.

- Подключайте экранированный кабель LSN со стороны панели к специально предназначенному для этого функциональному разъему с заземлением: два подключения в начале и в конце кольцевого шлейфа
одно подключение в начале радиального шлейфа
- Обеспечьте сквозное подключение экранированного кабеля ко всем периферийным устройствам LSN, используя имеющиеся клеммы
- Запрещены любые другие подключения экранированного кабеля LSN (в том числе подключения к любым разъемам с заземлением и прочим источникам электрического напряжения)



1.4 Примечания пользователя

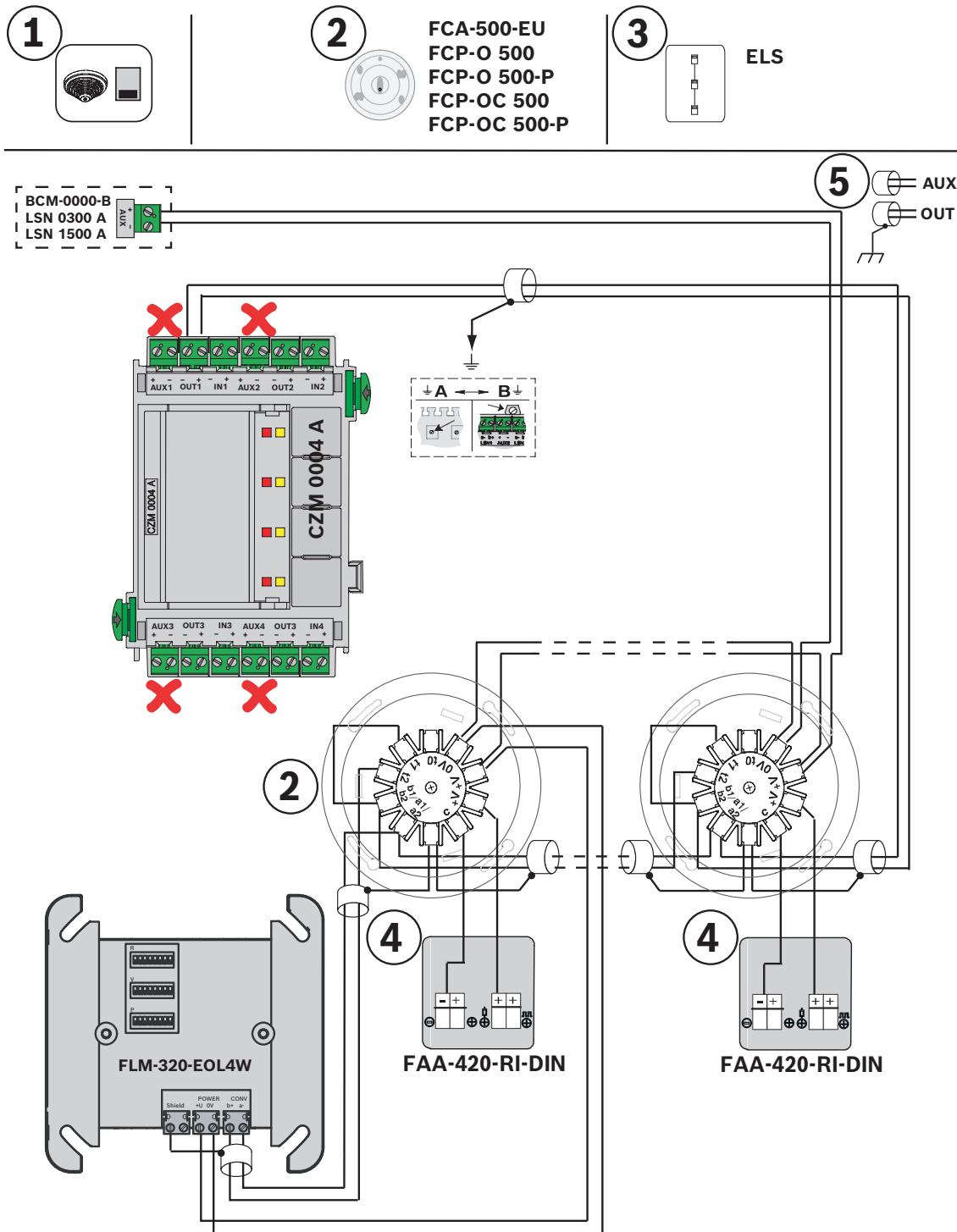
Данное Руководство по подключению имеет следующую структуру.

- Содержимое главы Подключение сортировано по устройству, к которому подключается периферийное устройство. На схеме подключения показаны прямые подключения одного устройства к другому (каскадные подключения отсутствуют).
- Все проводные подключения с дополнительными модулями EOL для мониторинга опасности обрыва описаны в разделе EOL.

Для поиска нужного проводного подключения можно воспользоваться следующими ресурсами:

- содержанием в начале главы Подключение и в начале разделов Функциональные модули, Интерфейсные модули и EOL.
- Index (независимый от языка) и
- полнотекстовым поиском.













См. следующий образец подключения:









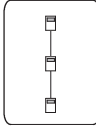
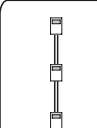
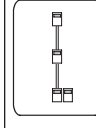
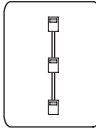
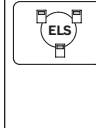
1	Обозначения разделов (Обозначения разделов, Страница 7)
2	Подключаемое периферийное устройство



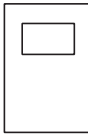

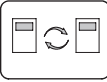

3	Обозначения подключений (<i>Обозначения подключений, Страница 7</i>)
4	Дополнительные компоненты
5	Питание и схема подключения (<i>Питание и схема подключения, Страница 8</i>)

1.4.1 Обозначения разделов



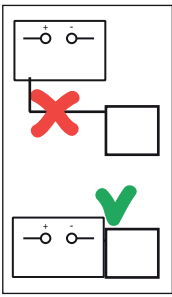
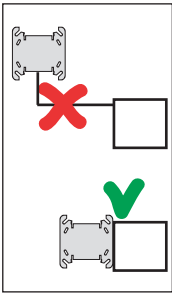

	Автоматические извещатели		Панели управления и индикации		Принтер
	Источник питания		Функциональные модули		Оборудование пожарной службы
	Интерфейсные модули		Системы пожаротушения		Ручные извещатели
	Устройства оповещения		Устройства управления дверями		Устройства передачи

1.4.2 Обозначения подключений

	Обязательные подключения		Необязательные подключения		Не разрешено
	Резервирование		Кольцевой шлейф		Кольцевой шлейф с резервным элементом
	Радиальный шлейф		Радиальный шлейф с резервированием		Радиальный шлейф с резервным элементом
	Радиальный шлейф с резервированием и резервным элементом	ELS	Это подключение соответствует требованиям VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS означает мониторинг удлиненной линии подключения, то есть мониторинг опасности обрыва и КЗ. Это подключение обеспечивает ELS. Контроль короткого замыкания осуществляется следующими модулями: LSN 0300 A, LSN 1500 A и		Этот кольцевой шлейф соответствует стандарту VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. Он обеспечивает ELS. Использовать дополнительные модули EOL необязательно.

			ВСМ-0000-В при использовании FPP-5000-T113.		
	Синхронизация		Взрывоопасные зоны		Панель
	Автономная панель		Автономная панель с резервированием		Для оснований извещателей: схема проводного подключения актуальна только для основания извещателя, на котором установлен извещатель.
EN 54-2, DIBT и т. д.	Если требуется соответствие данному стандарту, используйте указанную схему подключения.				

1.4.3 Питание и схема подключения

	Требуется 2-проводной кабель.
	Требуется 2-проводной экранированный кабель.
	Корпус продукта, содержащий источник питания, должен быть установлен вплотную к устройству.
	Для интерфейсного модуля требуется уплотненный монтаж.
 Reset action	См. информацию о подключении кабелей в этом руководстве. Для автоматического сброса параметров устройства необходимо выполнить действие сброса.

1.5 Значения сопротивлений

В следующей таблице содержится обзор цветовой маркировки резисторов. Металлические пленочные резисторы, поставляемые с изделием, имеют 5 цветных колец, соответствующих значению сопротивления.

Цвет	1. кольцо	2. кольцо	3. кольцо	4. кольцо (степень)	5. кольцо (допуск)
Серебристый				10^{-2}	$\pm 10\%$
Золотистый				10^{-1}	$\pm 5\%$
Черный		0	0	10^0	
Коричневый	1	1	1	10^1	$\pm 1\%$
Красный	2	2	2	10^2	$\pm 2\%$
Оранжевый	3	3	3	10^3	$\pm 0.05\%$
Желтый	4	4	4	10^4	$\pm 0.02\%$
Зеленый	5	5	5	10^5	$\pm 0.5\%$
Синий	6	6	6	10^6	$\pm 0.25\%$
Фиолетовый	7	7	7	10^7	$\pm 0.1\%$
Серый	8	8	8	10^8	$\pm 0.01\%$
Белый	9	9	9	10^9	

В соответствии с DIN EN 60062:2017

Оранжевый — белый — черный — коричневый — коричневый: резистор 3,9 кОм с допуском 1%,

Красный — красный — черный — коричневый — коричневый: резистор 2,2 кОм с допуском 1%.

2 Wiring



FPP-5000 Power supply, Страница 11

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

DIBT, Страница 15

Functional Modules, Страница 42

BCM-000-B, Страница 43

CZM 0004 A, Страница 45

ENO 0000 A/B, Страница 61

LSN 0300 A, Страница 68

NZM 0002 A, Страница 106

RMH 0002 A, Страница 119

IOS 0020 A, Страница 120

FPE-5000-UGM, Страница 122

Interface Modules, Страница 124

FLM-420-4/CON-D/S, Страница 125

FLM-420-I8R1-S, Страница 158

FLM-420-NAC-D/S, Страница 160

FLM-420-RHV, Страница 172

FLM-420-RLE-S, Страница 184

FLM-420-RLV1-E, Страница 185

FLM-420-RLV8-S, Страница 186

FMF-ADP-FBF/FMF-ADP-TTY, Страница 187

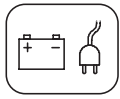
EOL, Страница 188

CZM 0004 A, Страница 189

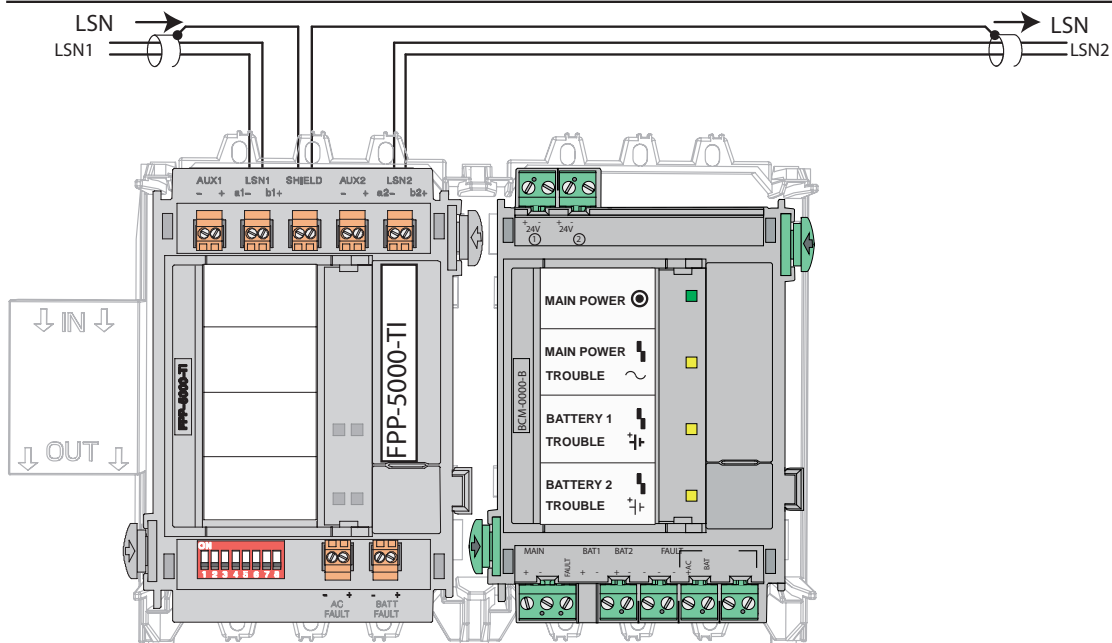
LSN 0300 A, Страница 201

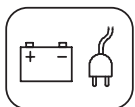
FLM-420/4-CON-S/D, Страница 246

2.1 FPP-5000 Power supply



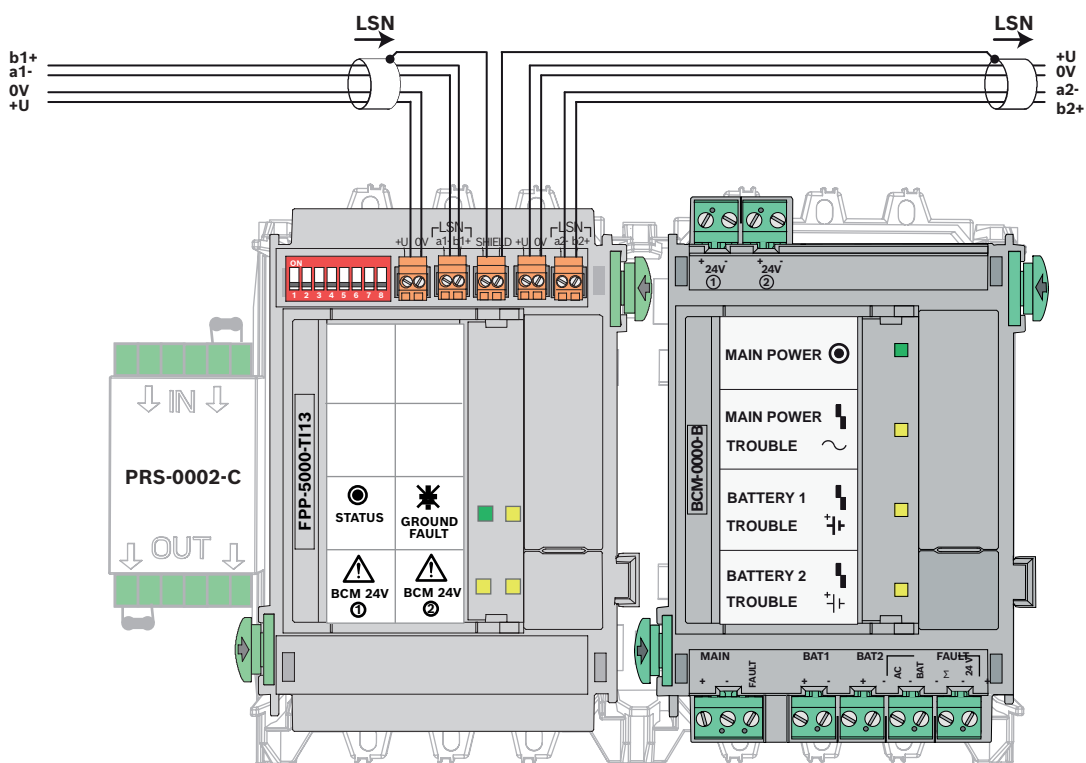
FPP-5000-TI

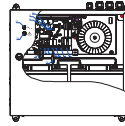
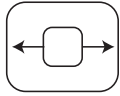




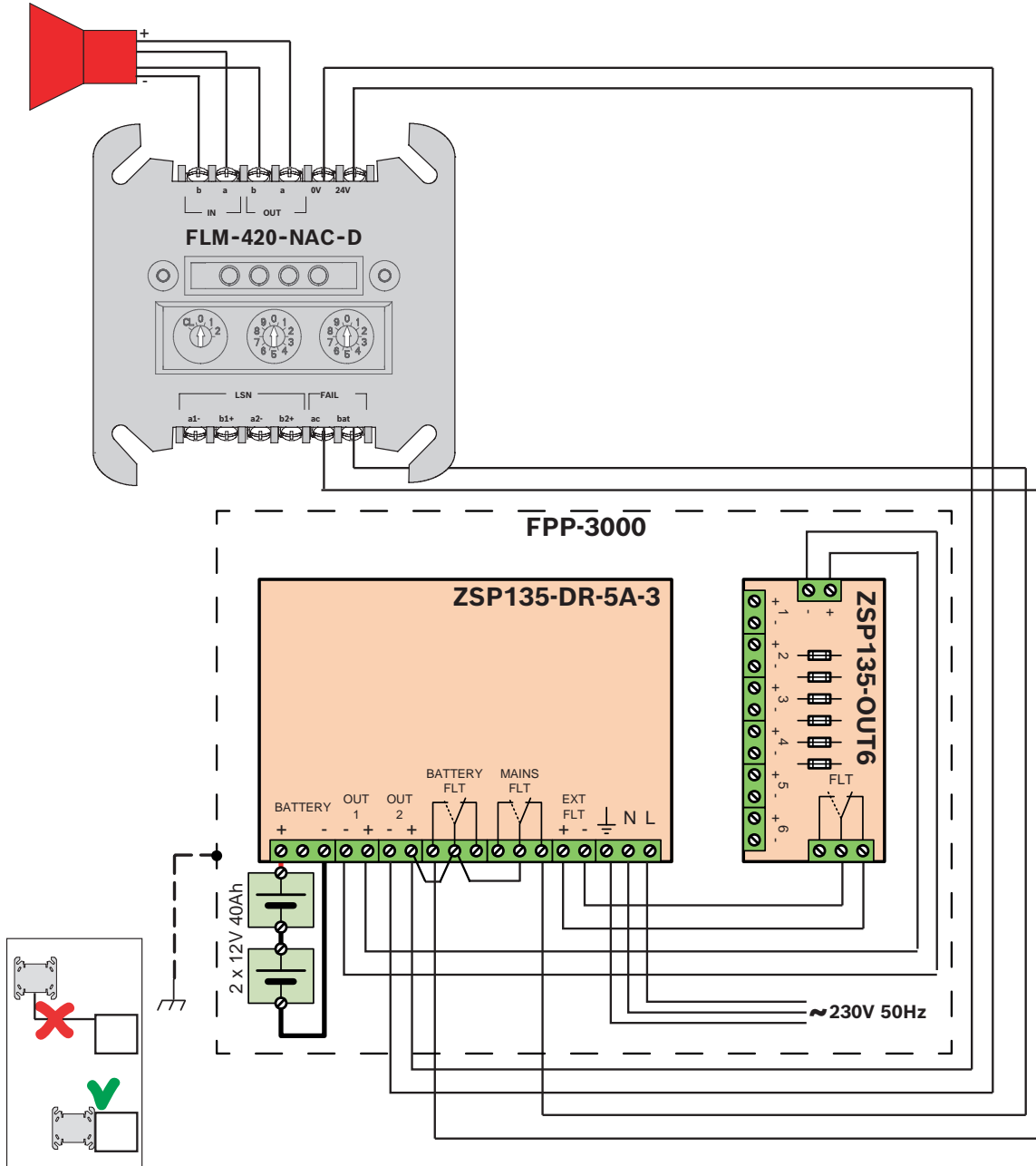
FPP-5000-TI13

ELS

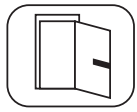




ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000

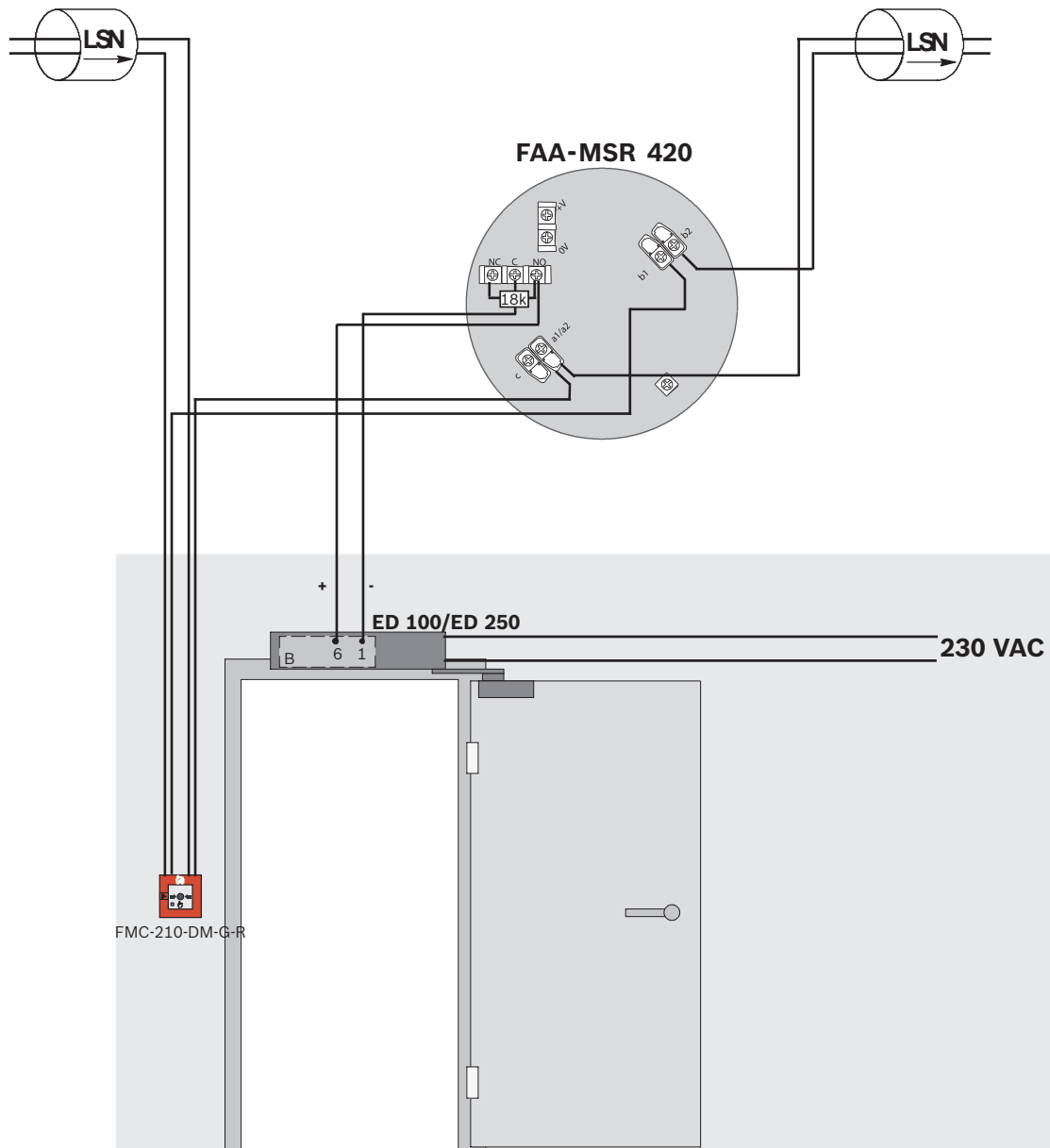


2.3 DIBT



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

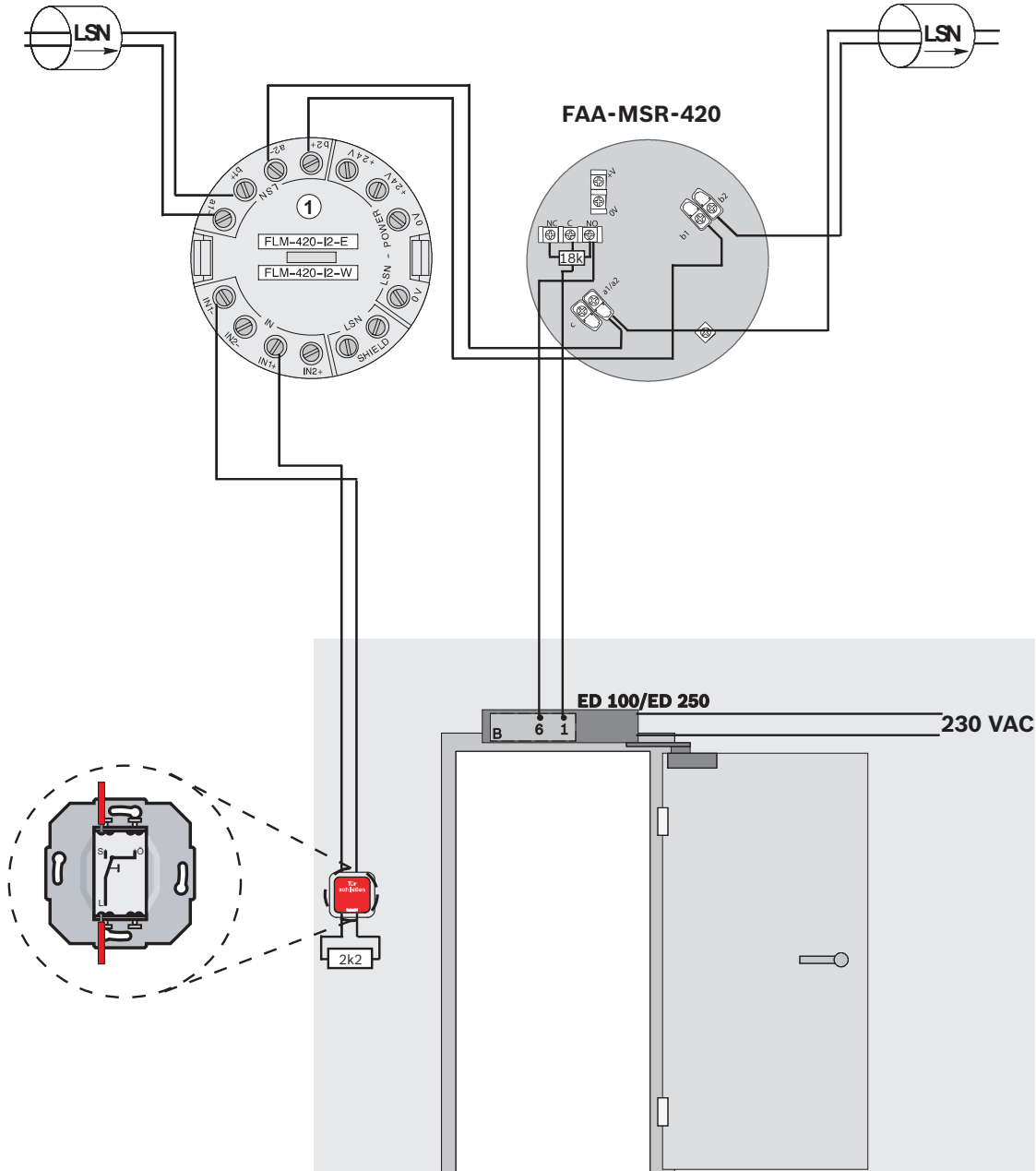
DIBT

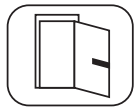




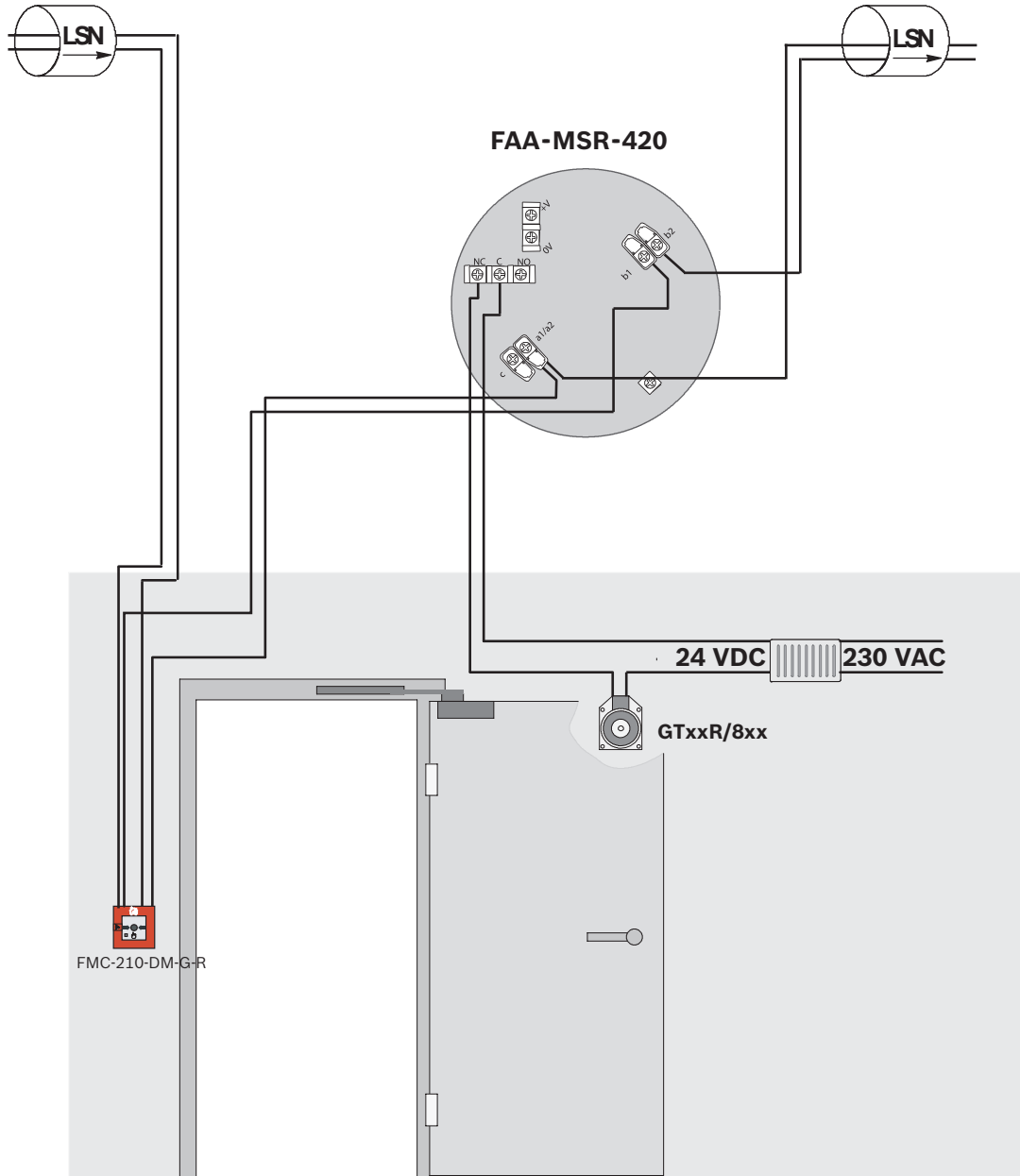
**ED 100
ED 250
(+Upgrade Card B)**

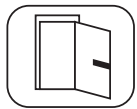
DIBT





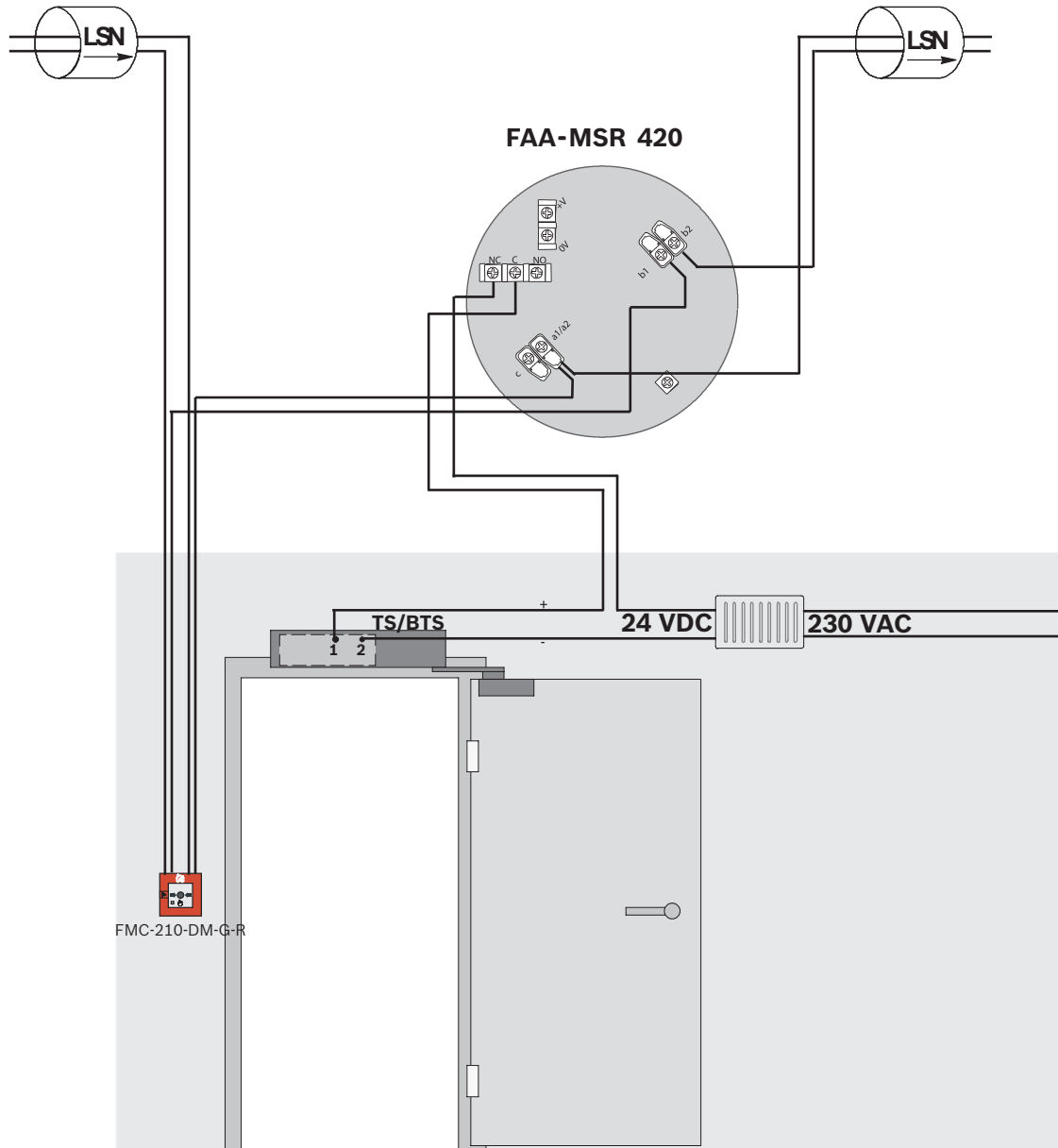
DIBT

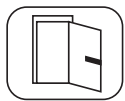




TS 73 EMF
 TS 93 EMF
 TS 93 GSR
 BTS 80 EMB
 BTS 80 FLB

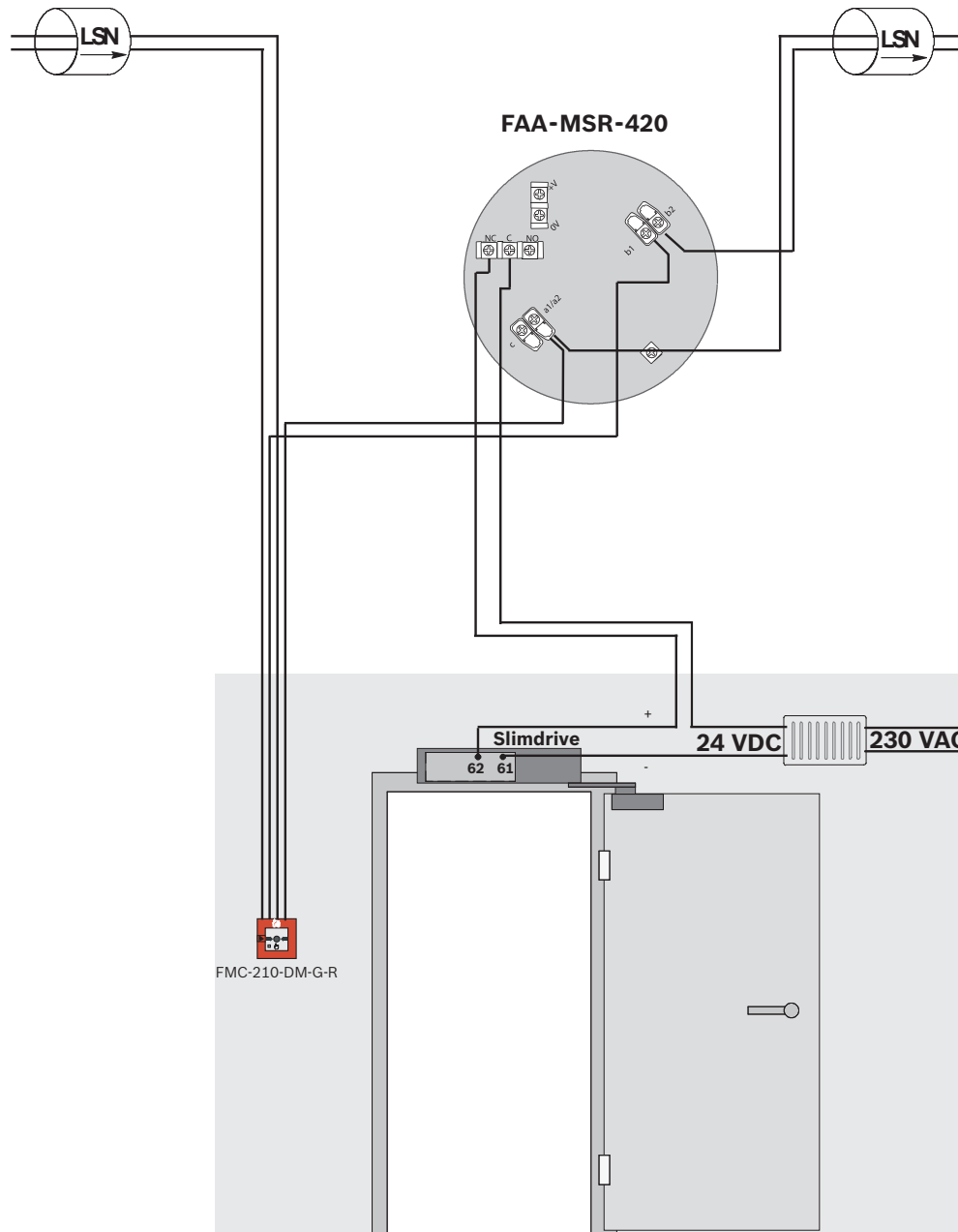
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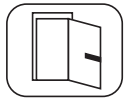




Slimdrive EMD-F/EMD F-IS

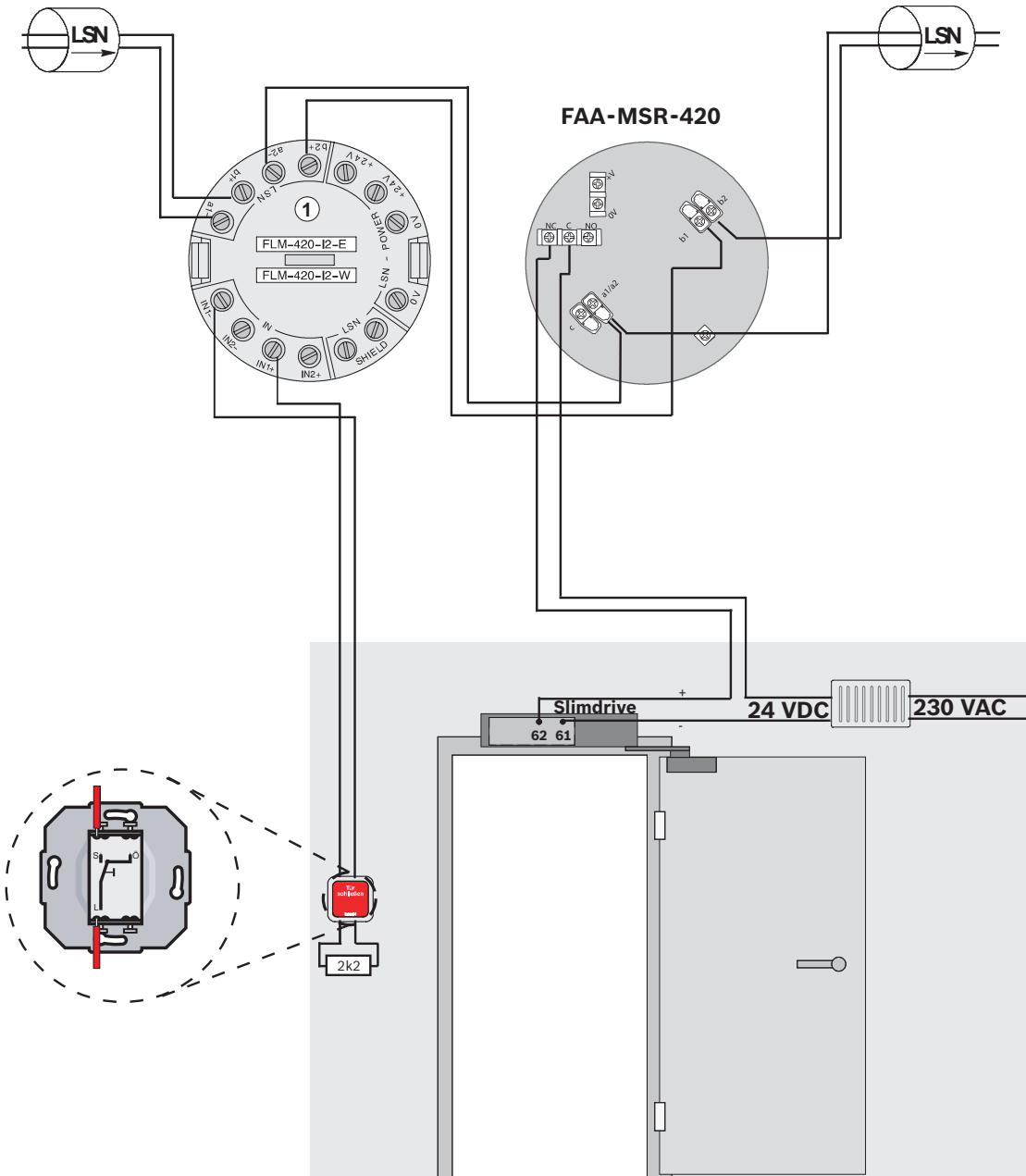
DIBT

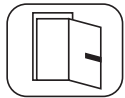




Slimdrive EMD-F/EMD F-IS

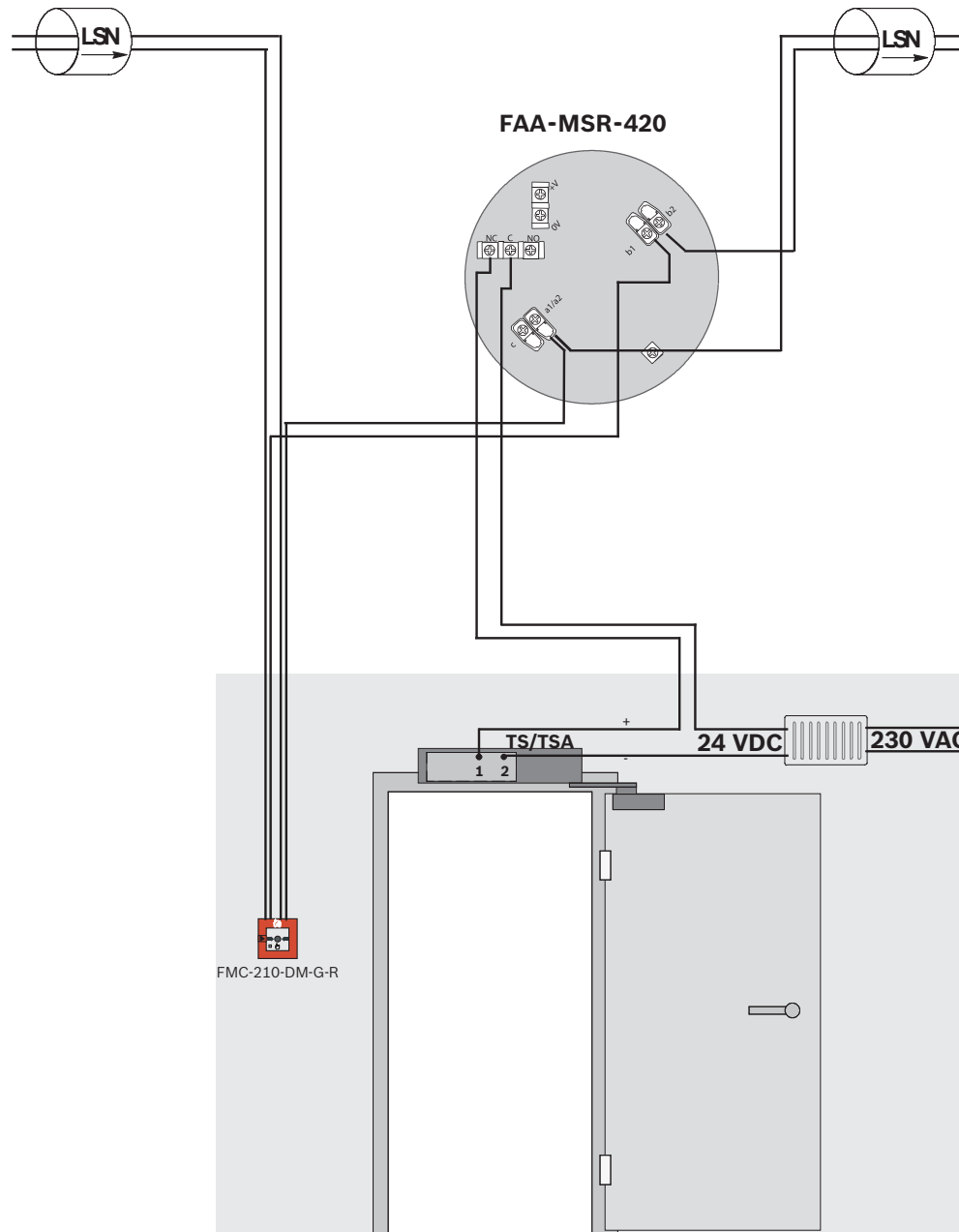
DIBT





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

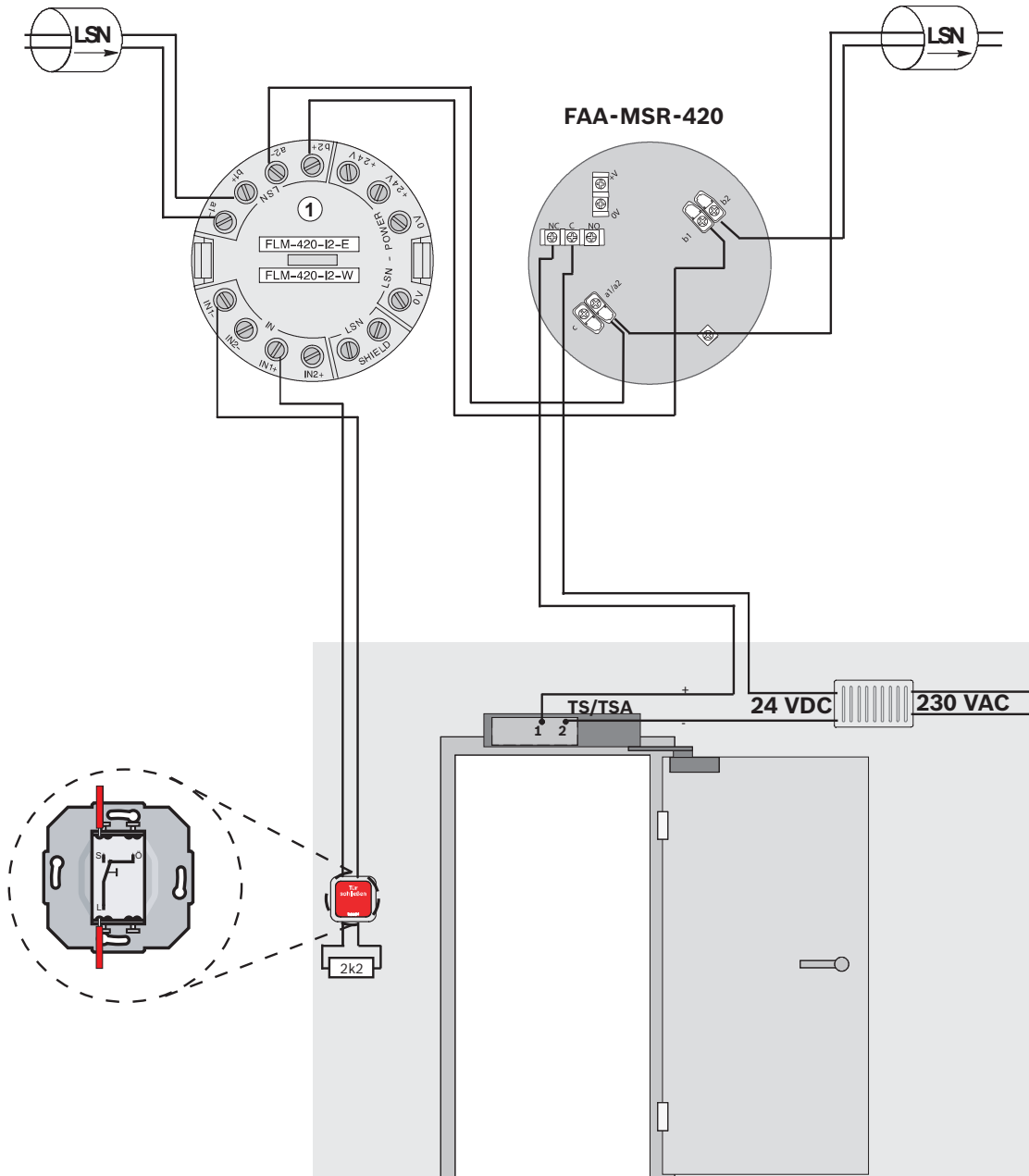
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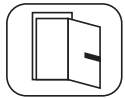




TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

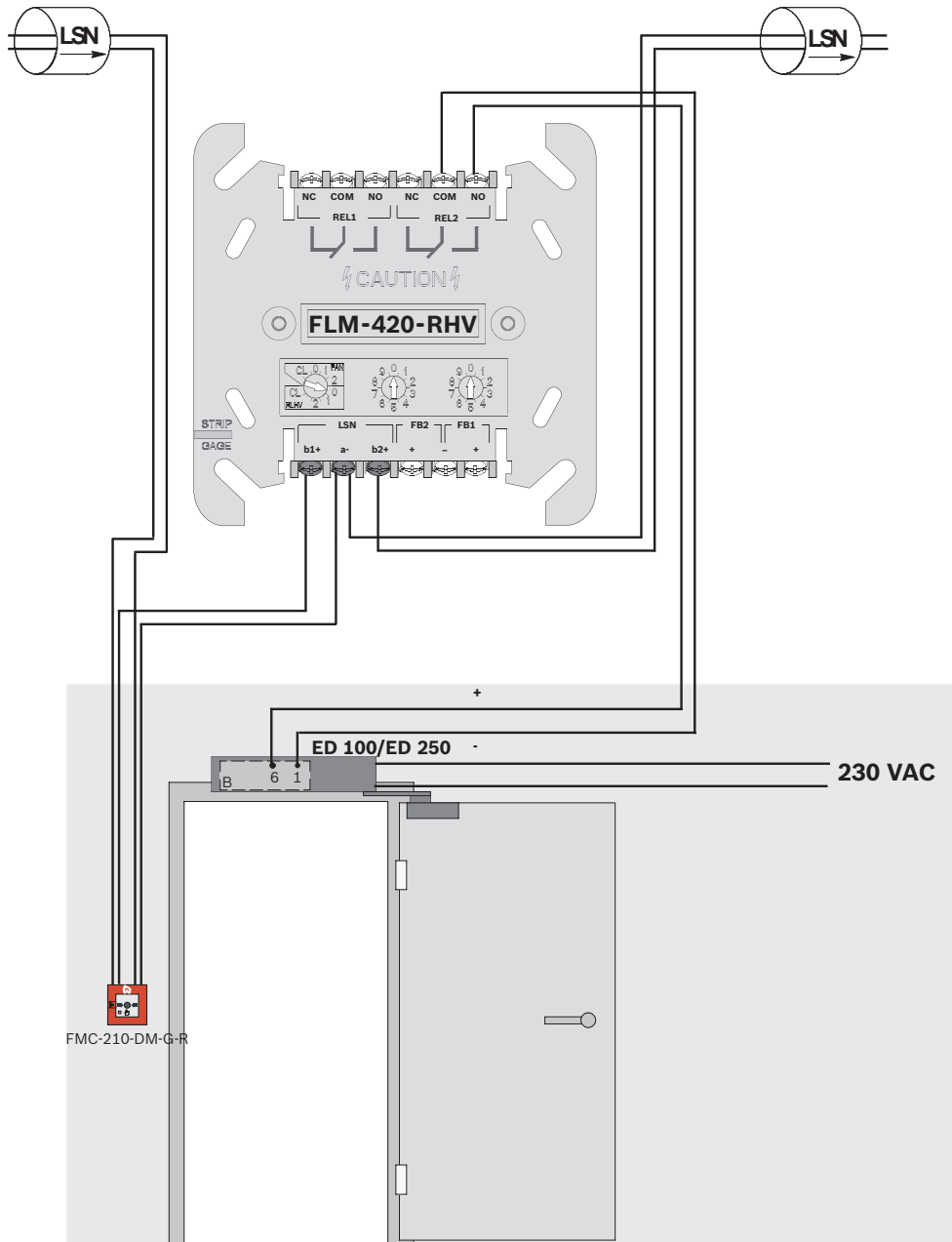
DIBT

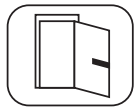




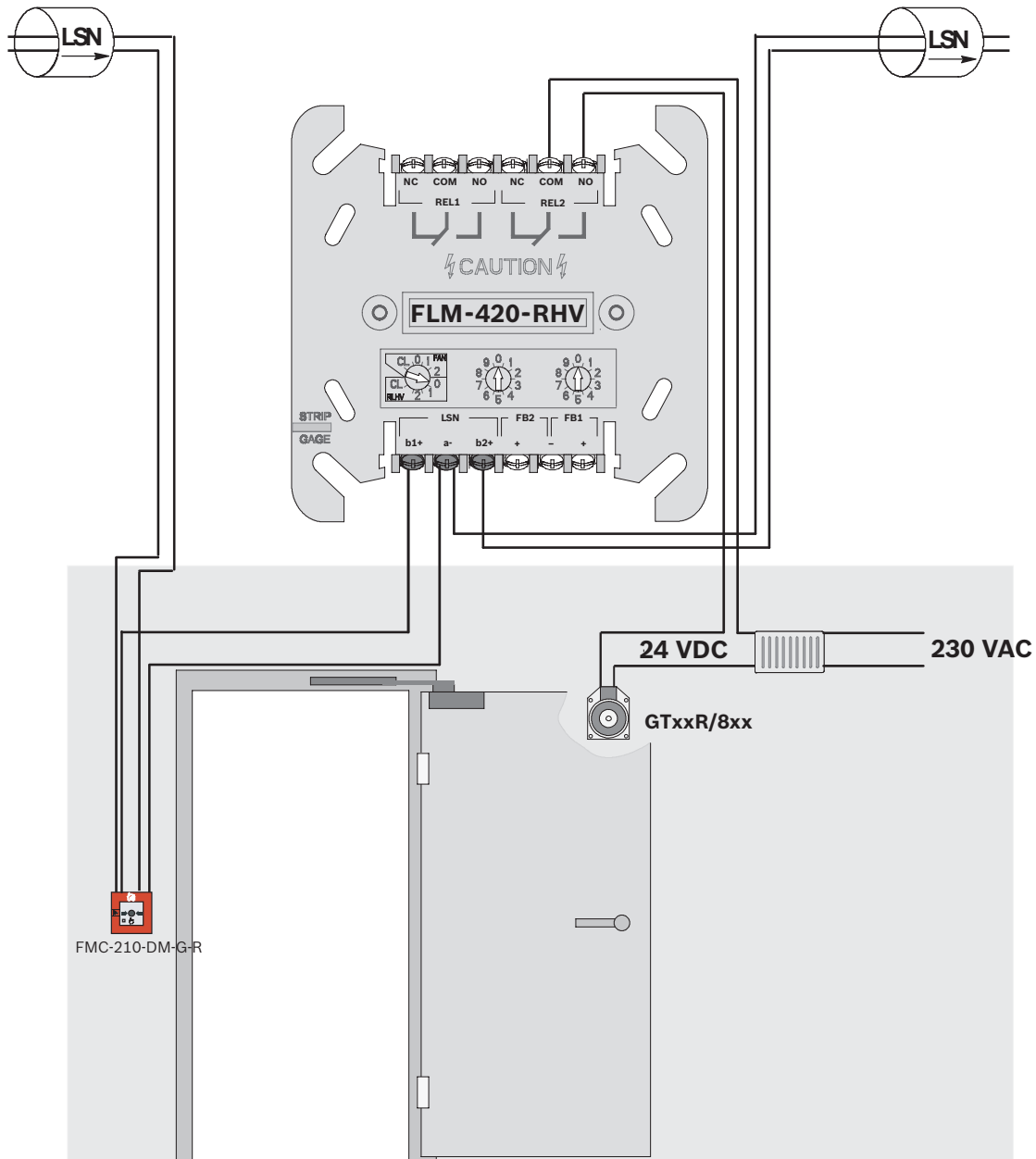
**ED 100
ED 250
(+Upgrade Card B**

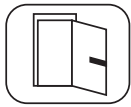
DIBT





DIBT

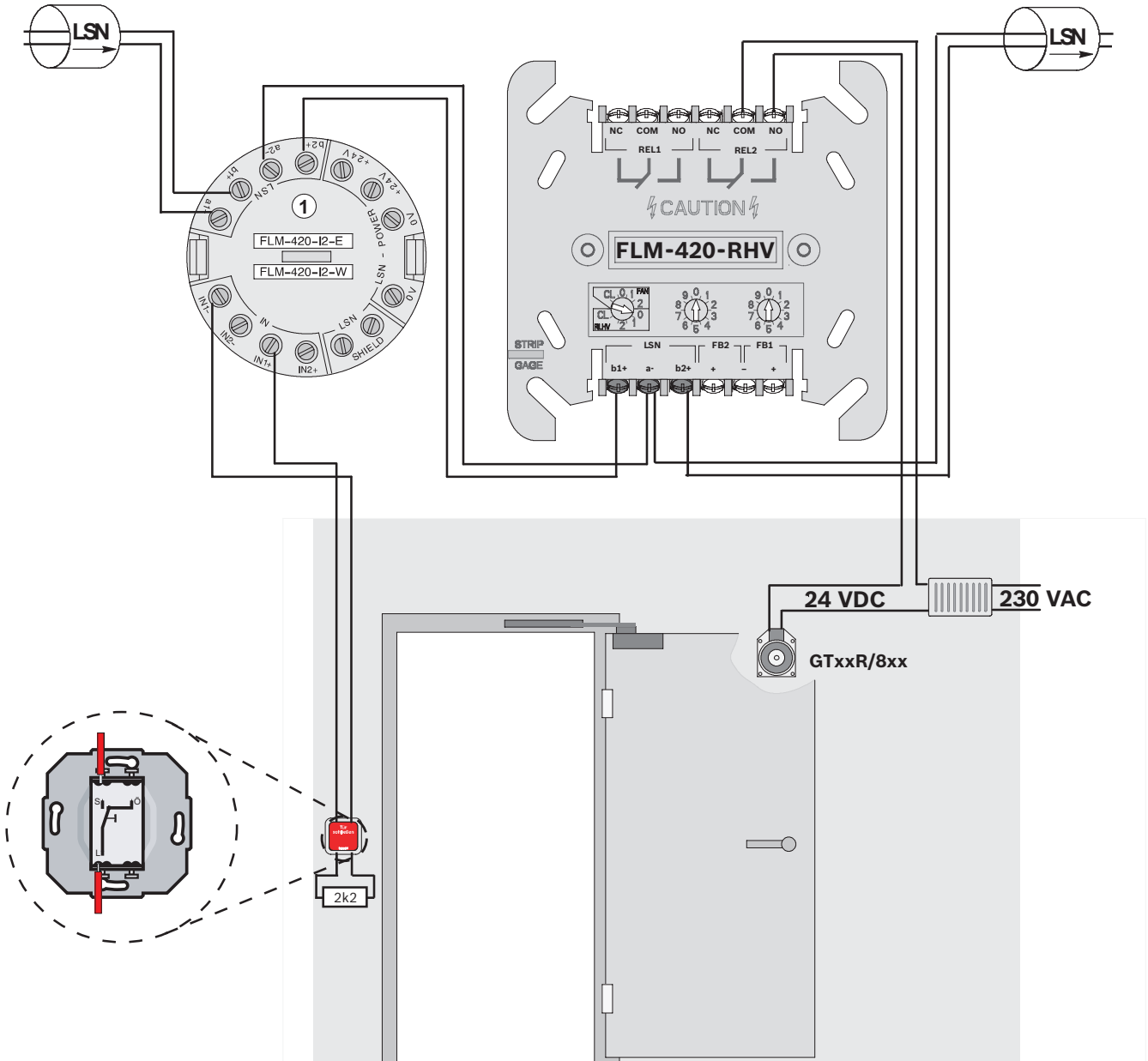


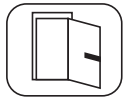


GT xx R

8 xx

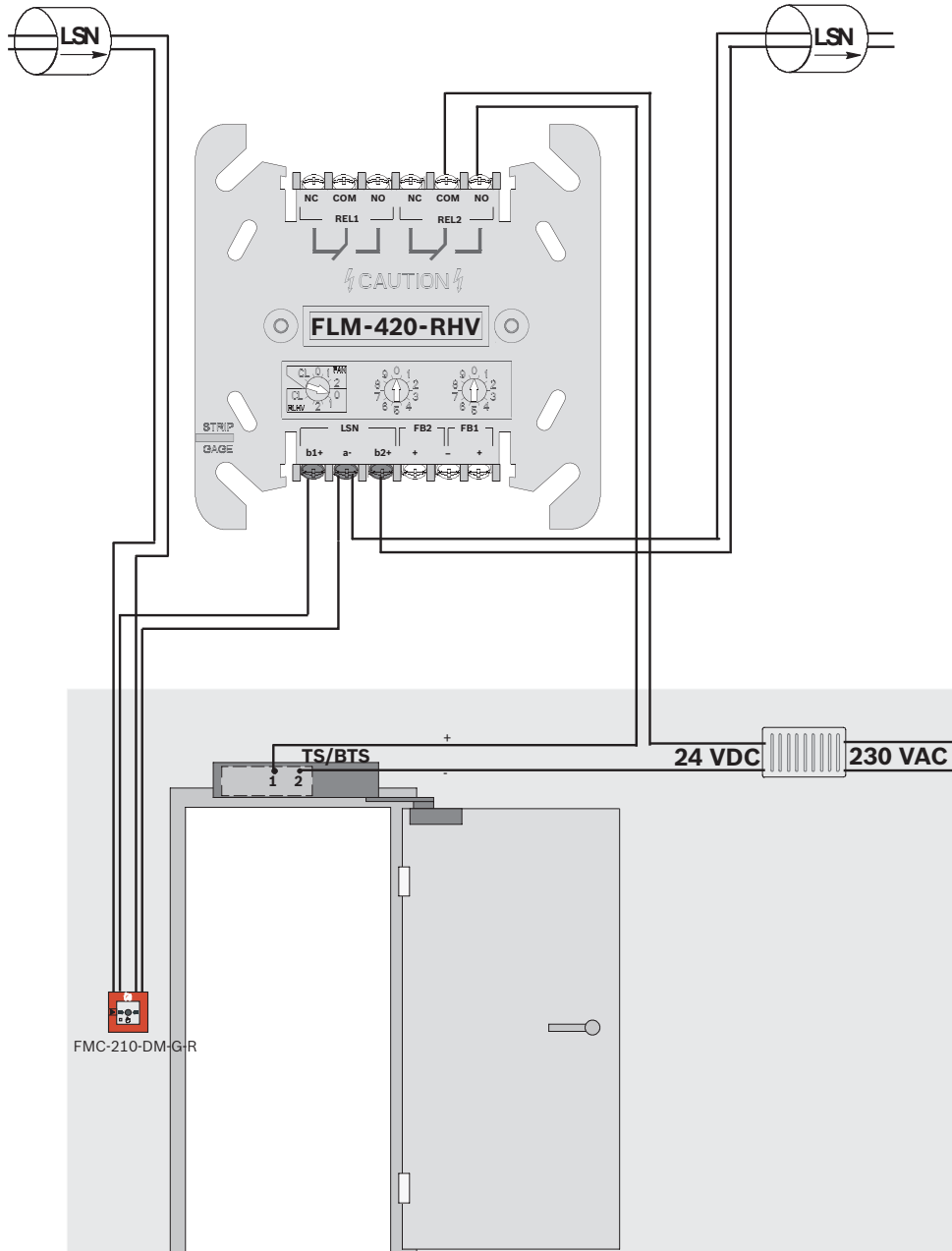
DIBT





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

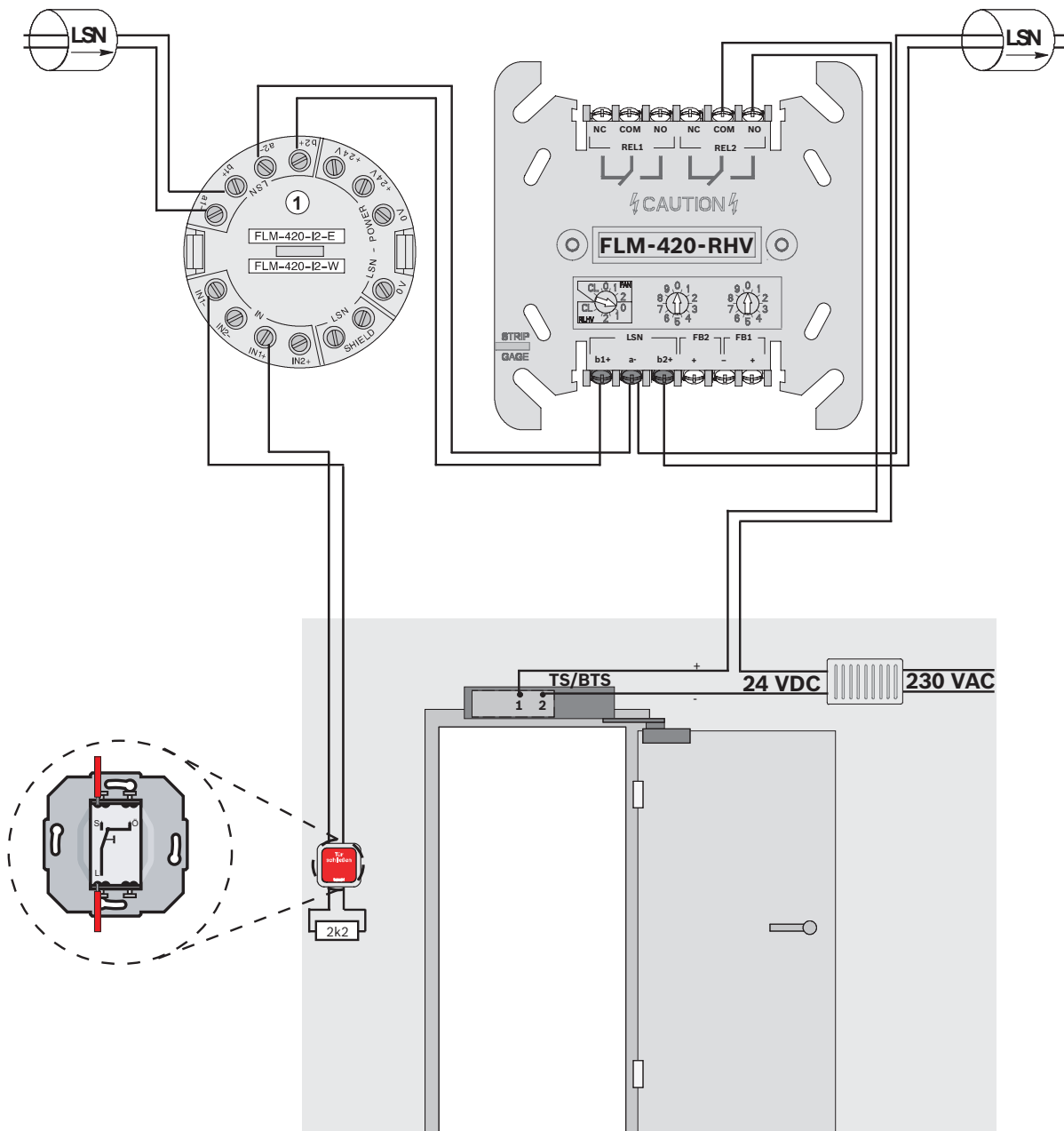
DIBT





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

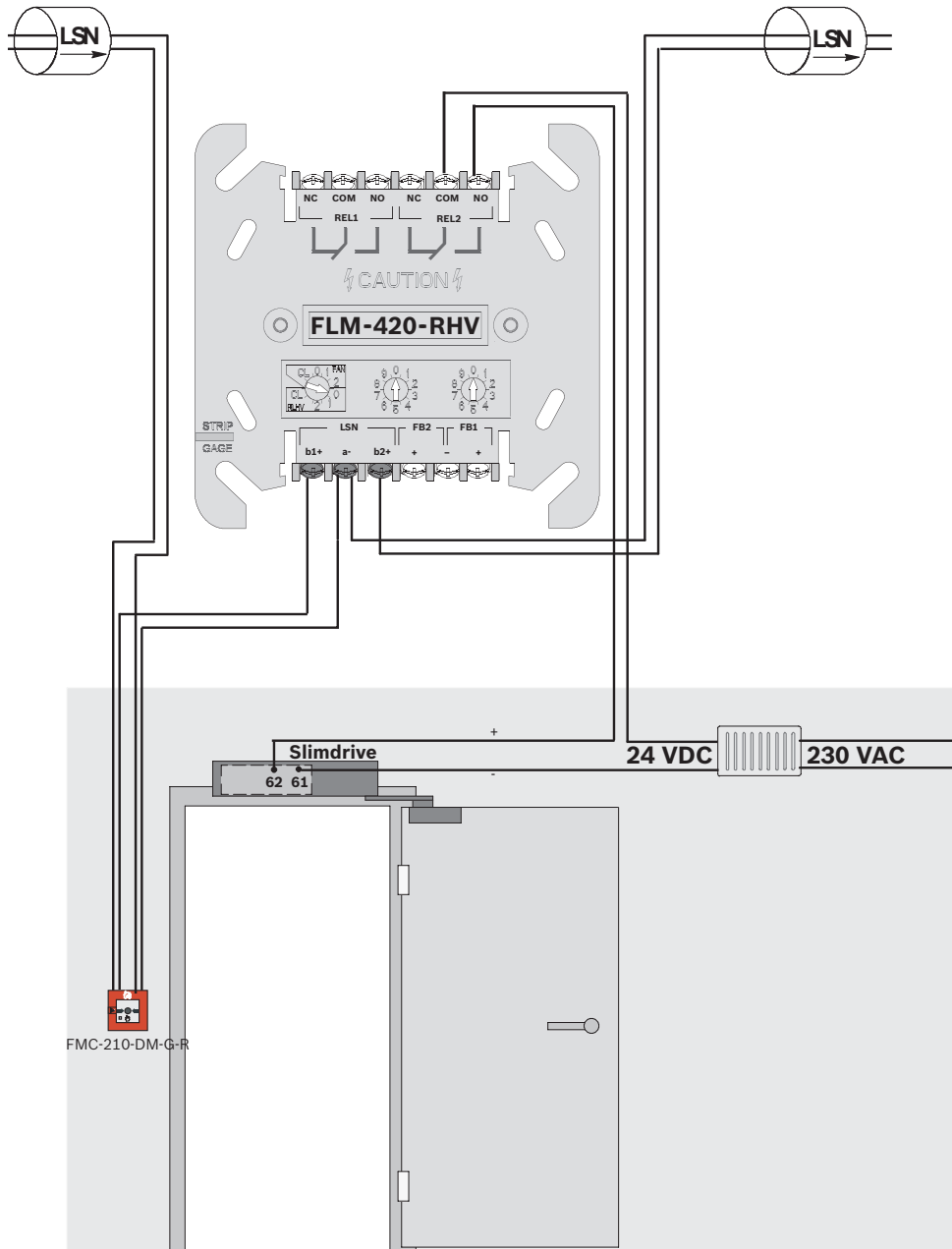
DIBT

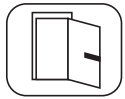




Slimdrive EMD-F/EMD F-IS

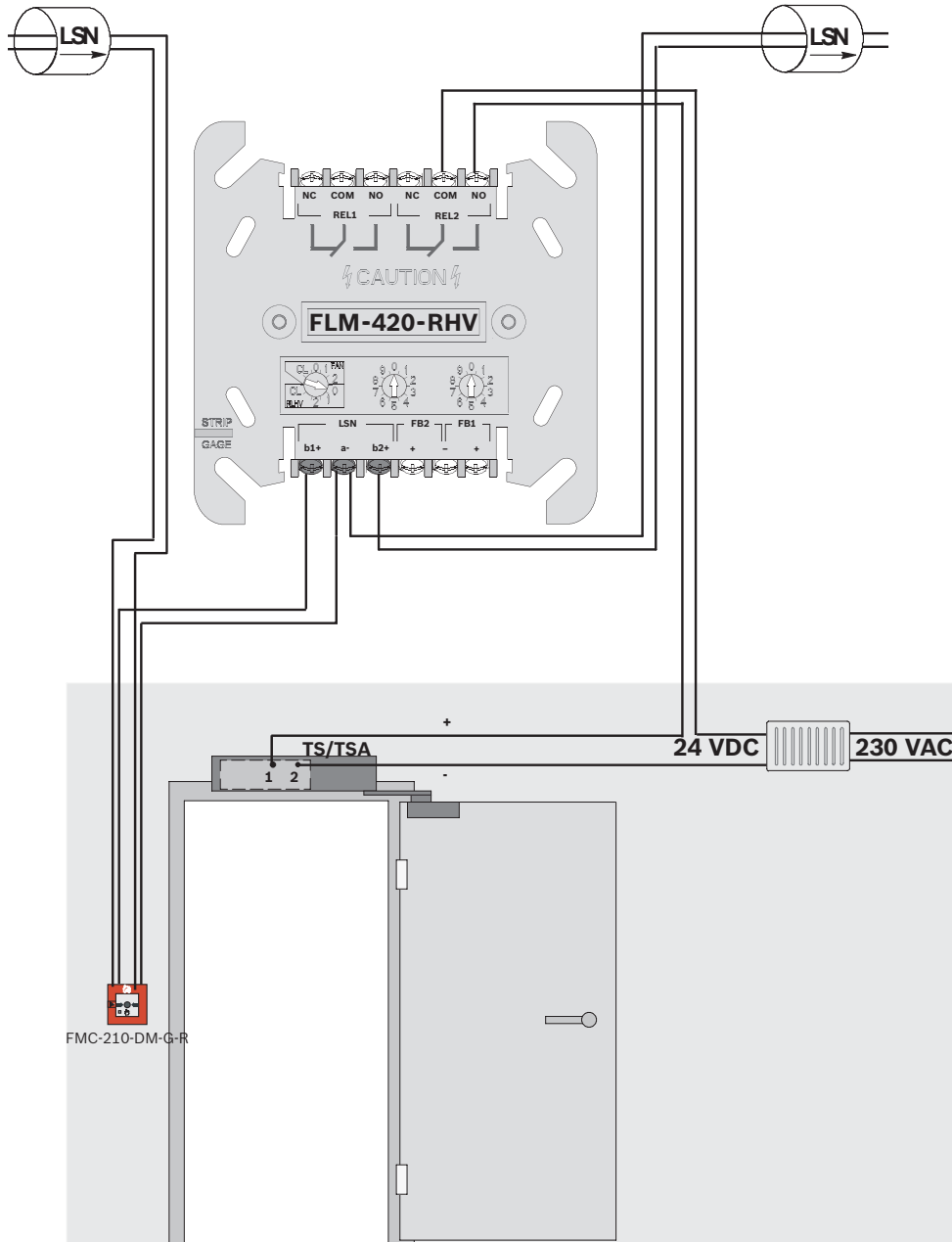
DIBT





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

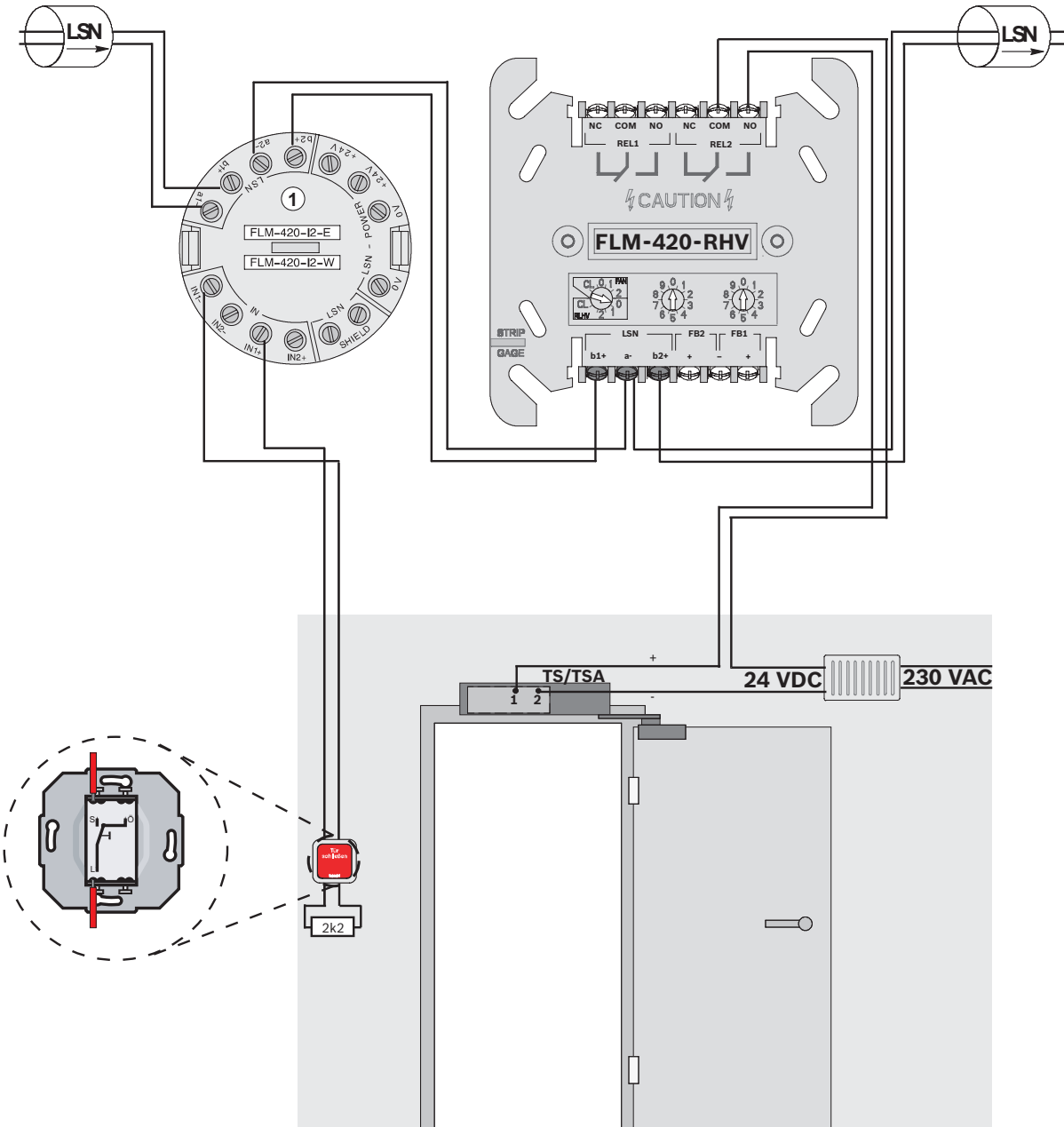
DIBT

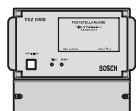




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

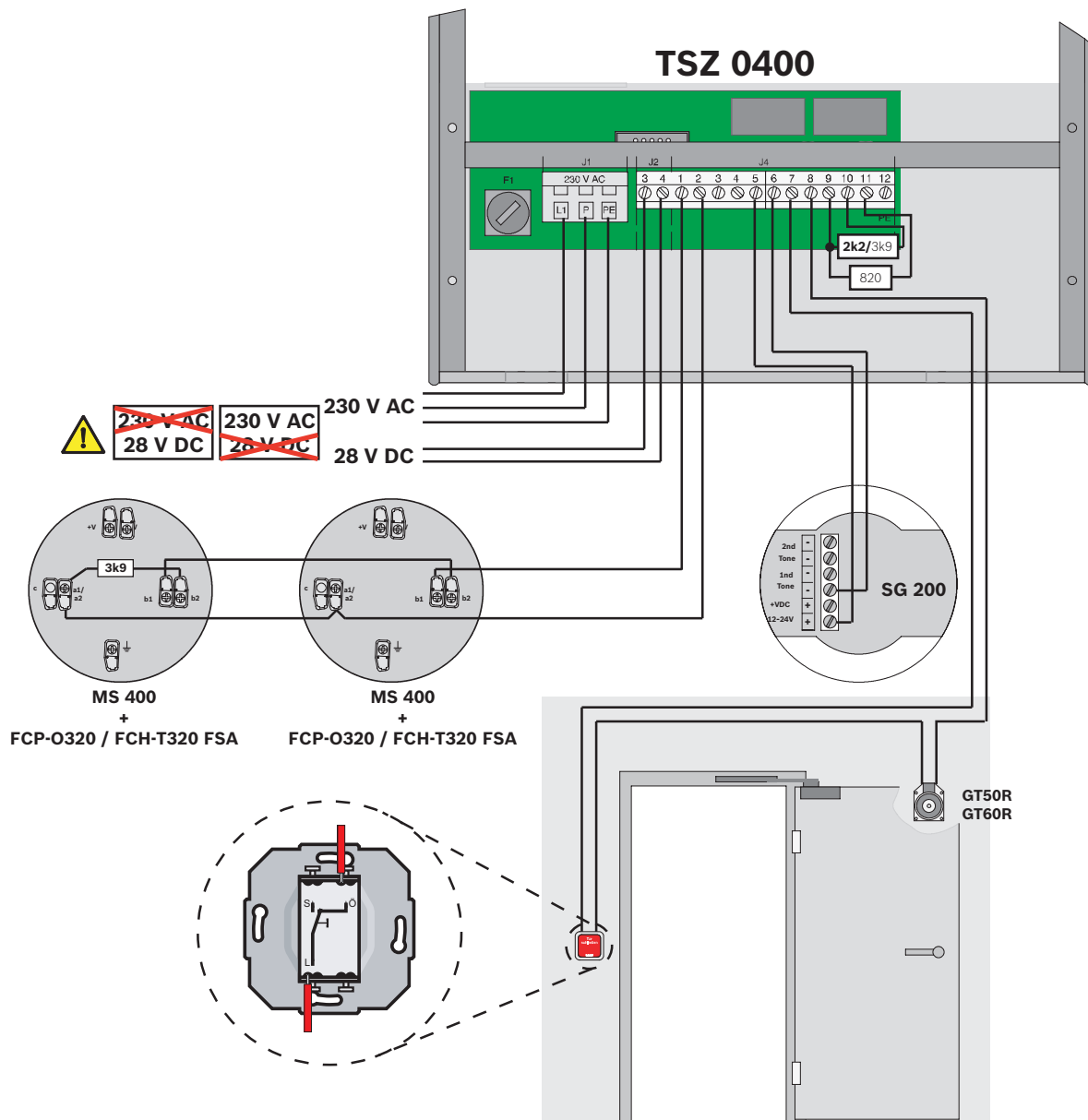
DIBT

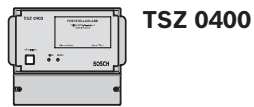




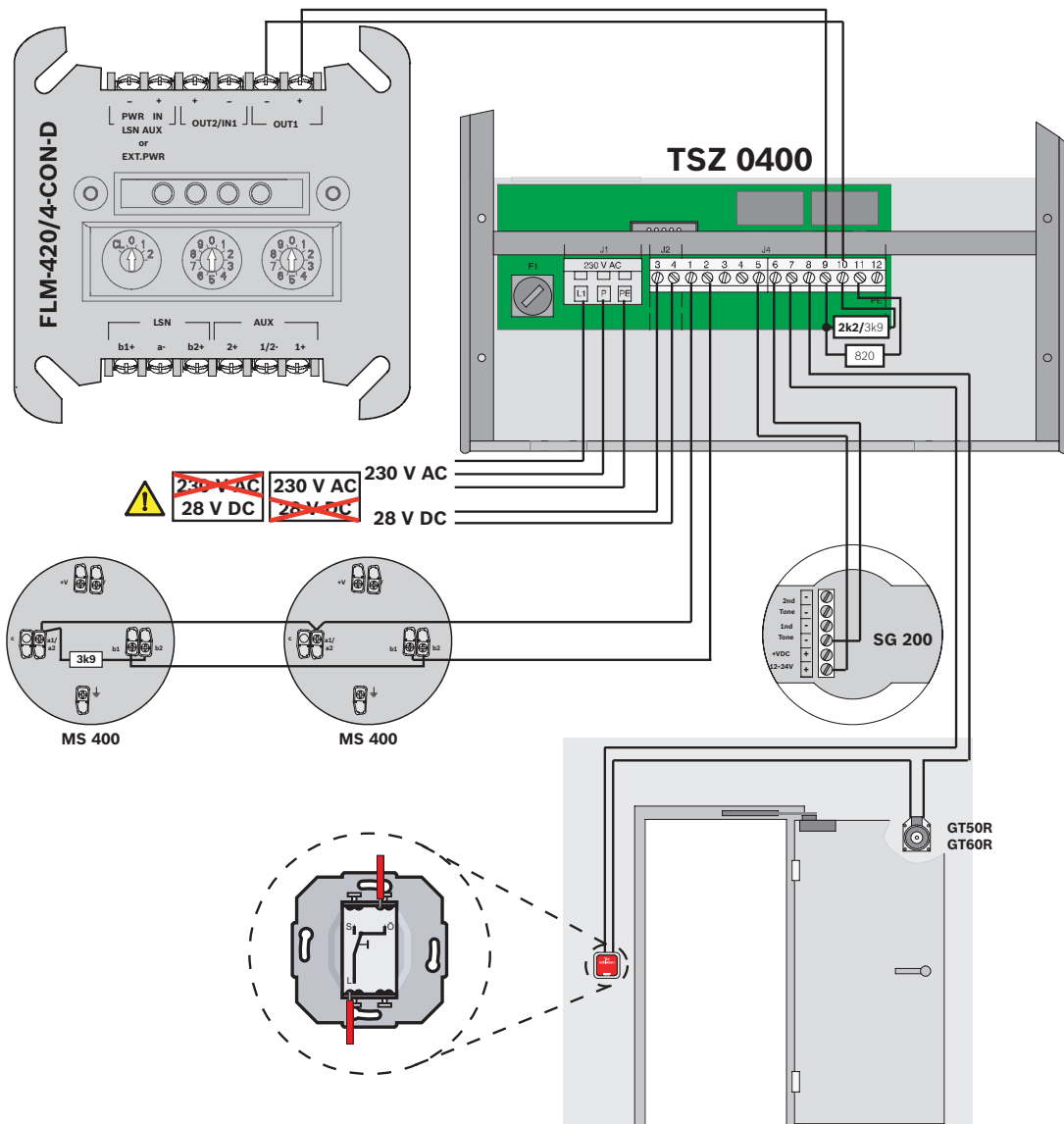
TSZ 0400

DIBT



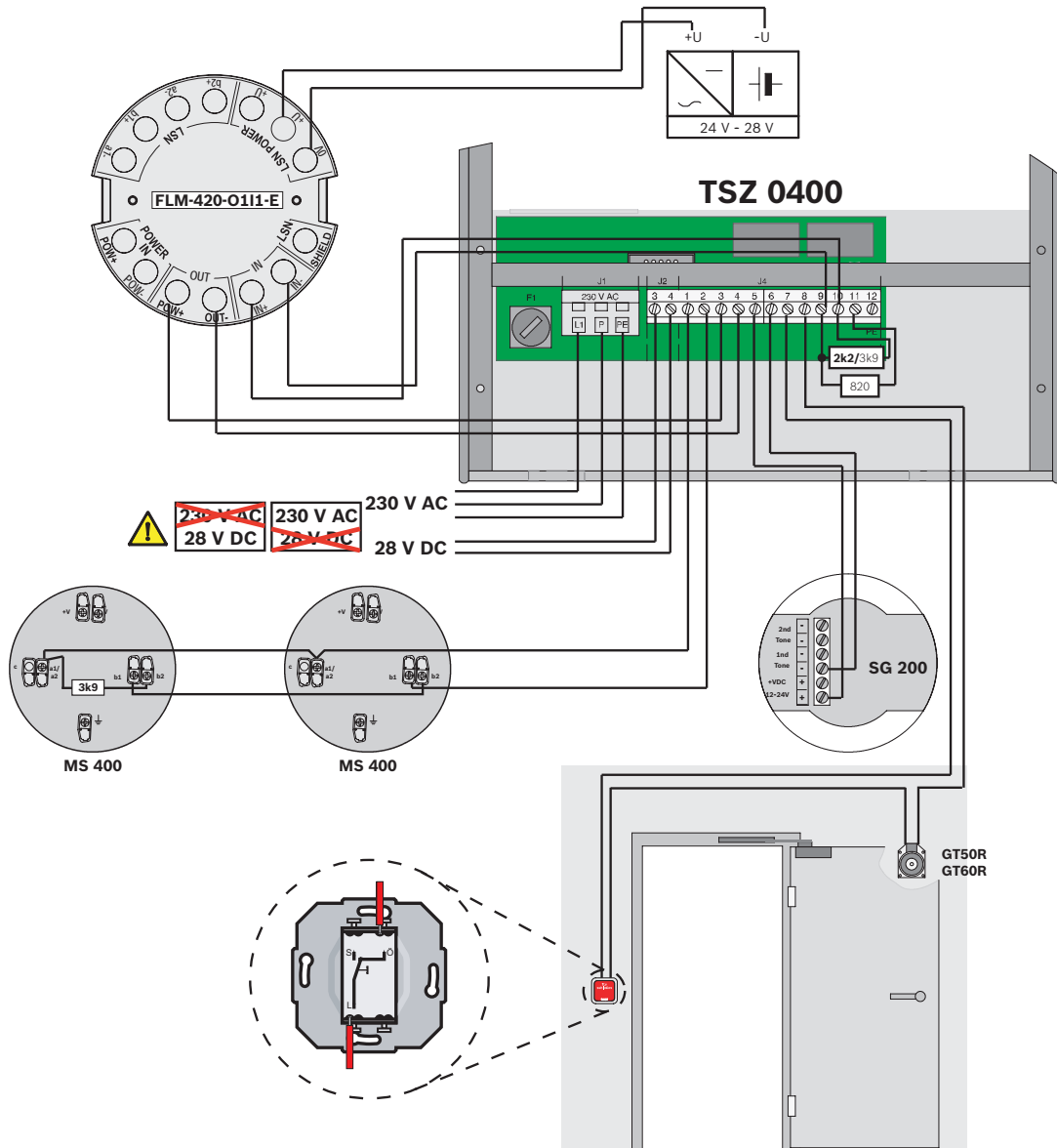


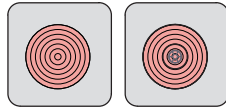
DIBT



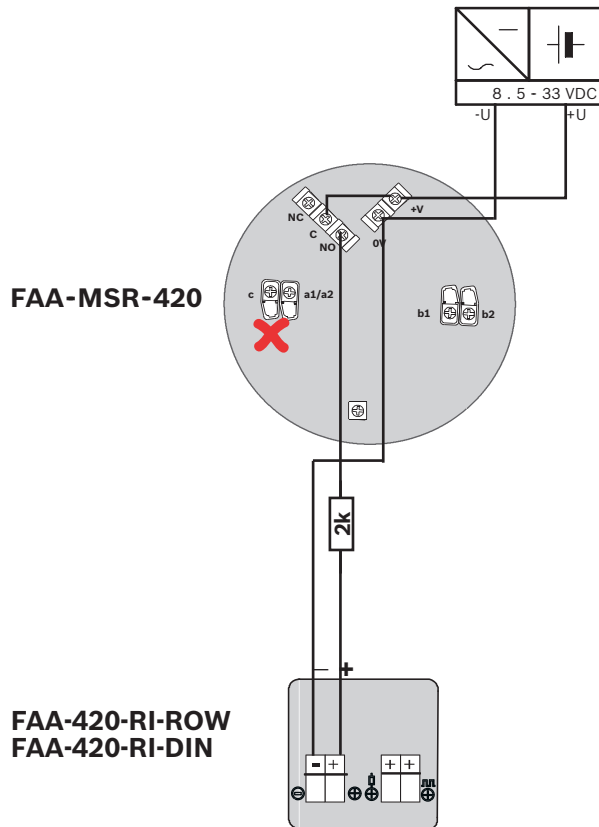
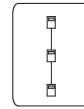


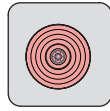
DIBT



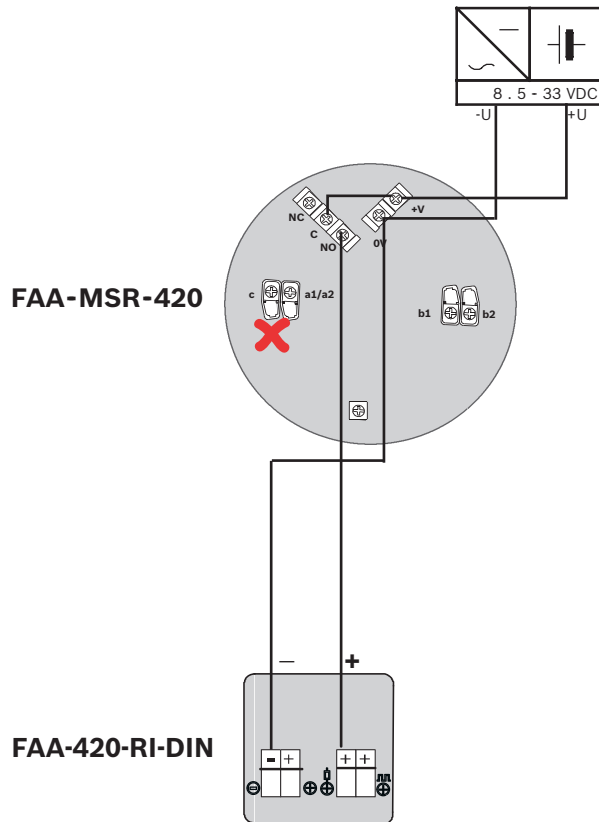
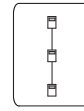


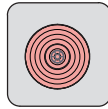
FAA-420-RI-ROW
FAA-420-RI-DIN



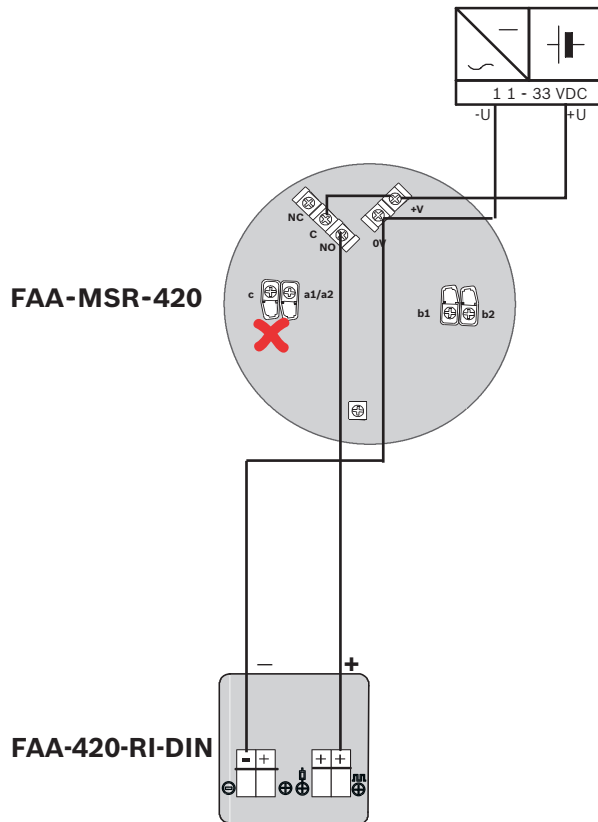
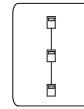


FAA-420-RI-DIN





FAA-420-RI-DIN



2.4

Functional Modules



BCM-000-B, Страница 43

CZM 0004 A, Страница 45

ENO 0000 A/B, Страница 61

LSN 0300 A, Страница 68

NZM 0002 A, Страница 106

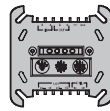
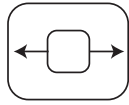
RMH 0002 A, Страница 119

IOS 0020 A, Страница 120

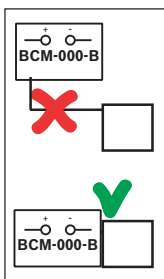
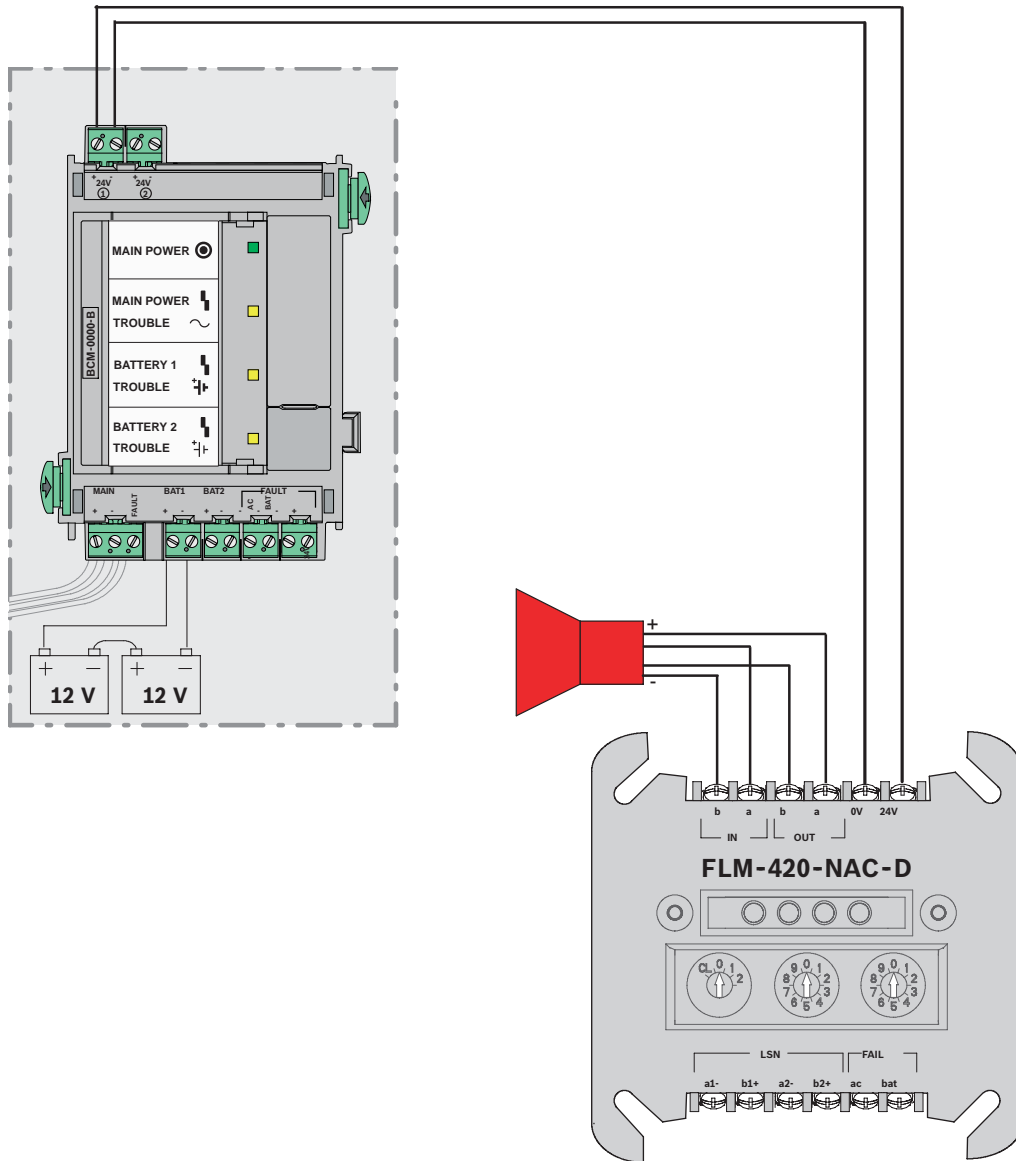
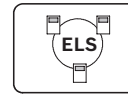
FPE-5000-UGM, Страница 122

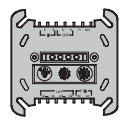
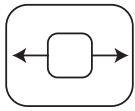
2.4.1

BCM-000-B

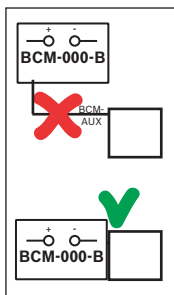
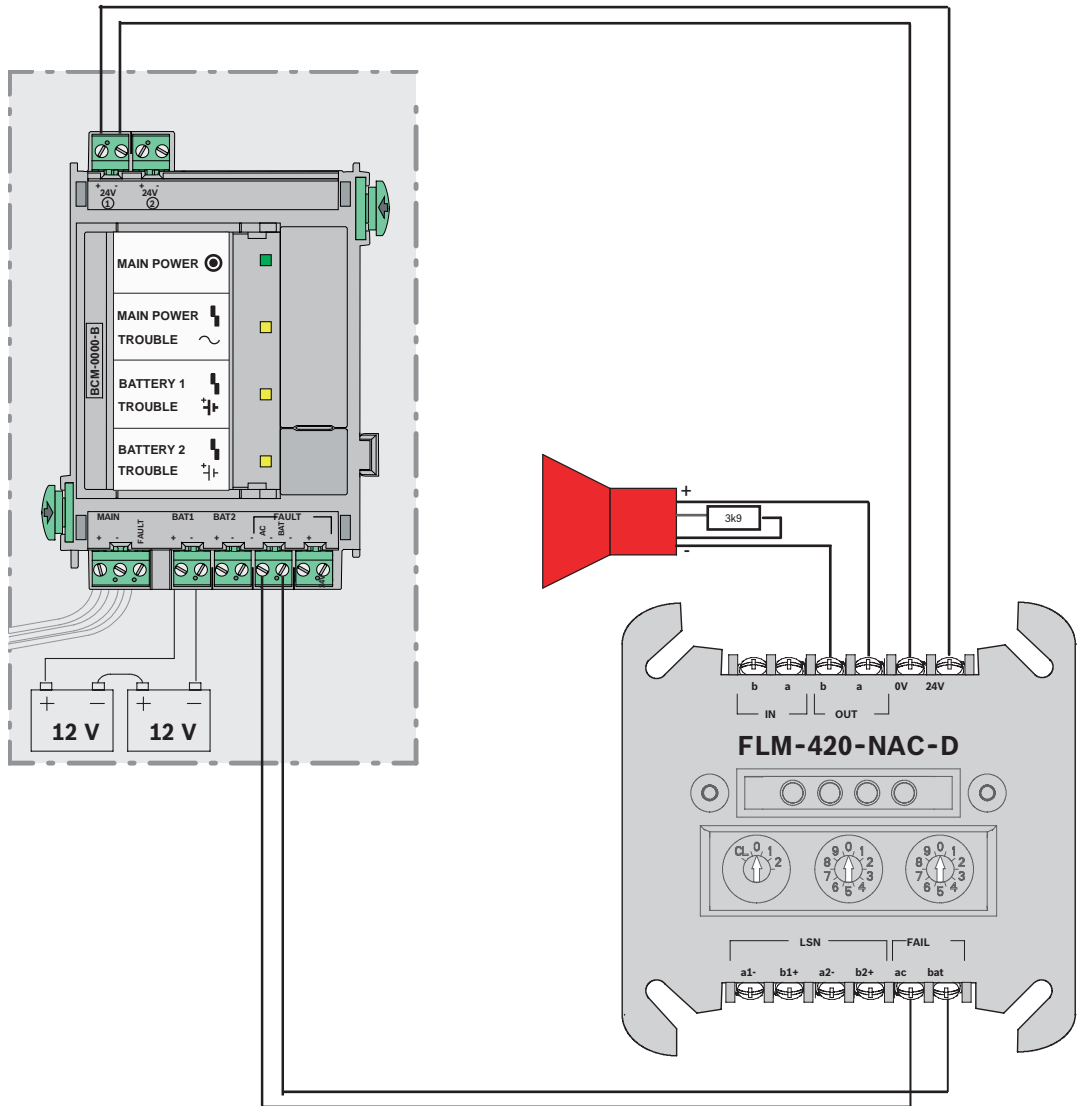
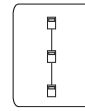


FLM-420-NAC-D





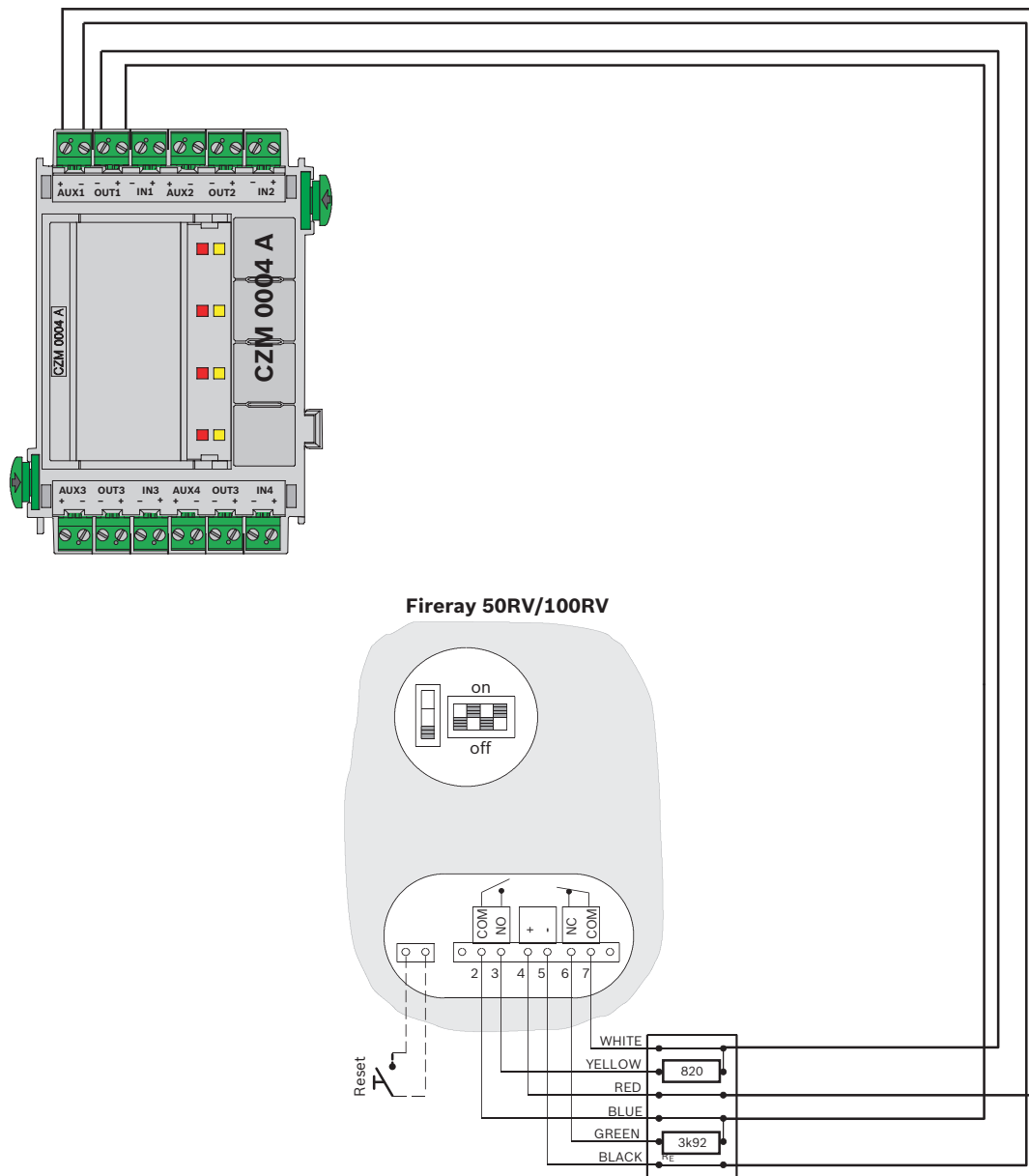
FLM-420-NAC-D



2.4.2 CZM 0004 A



Fireray 50RV
Fireray 100RV



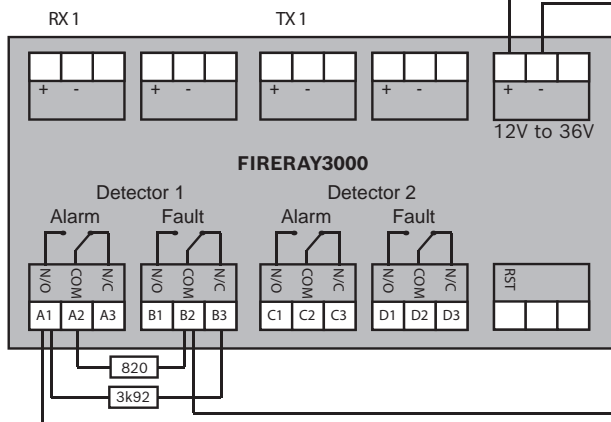
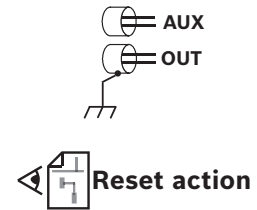
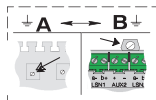
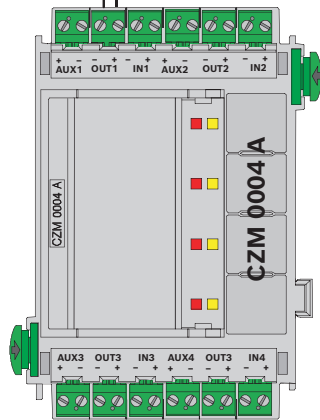


FIRERAY3000

1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A

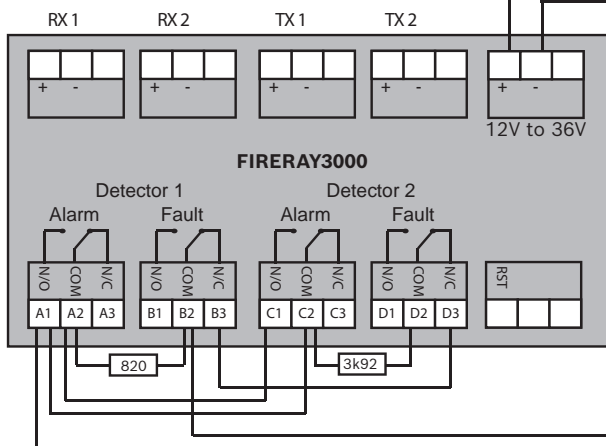
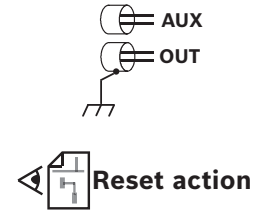
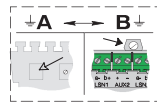
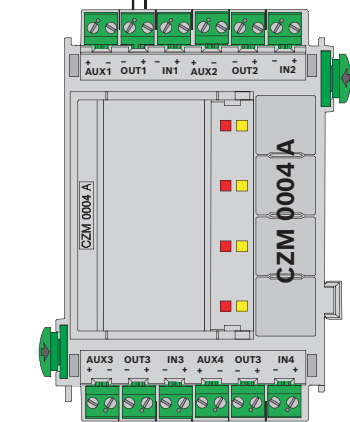




FIRERAY3000
2 x **OUT1**



BCM-0000-B
LSN 0300 A
LSN 1500 A

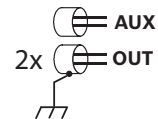
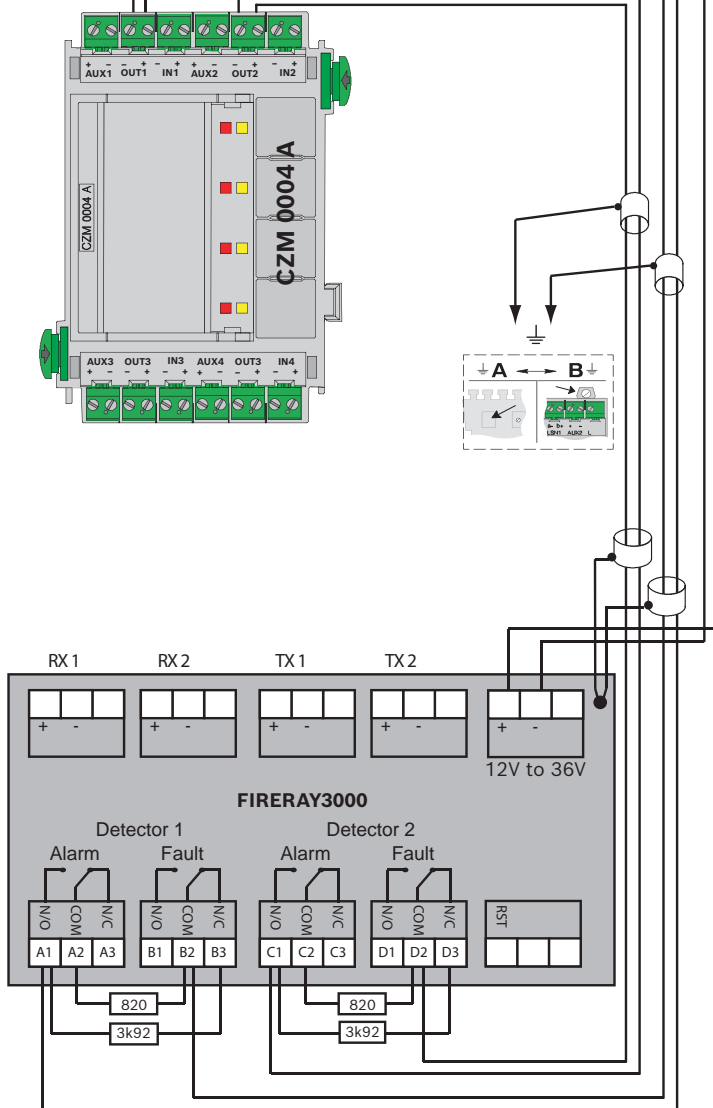




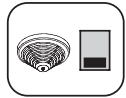
FIRERAY3000
2 x **OUT1+2**



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

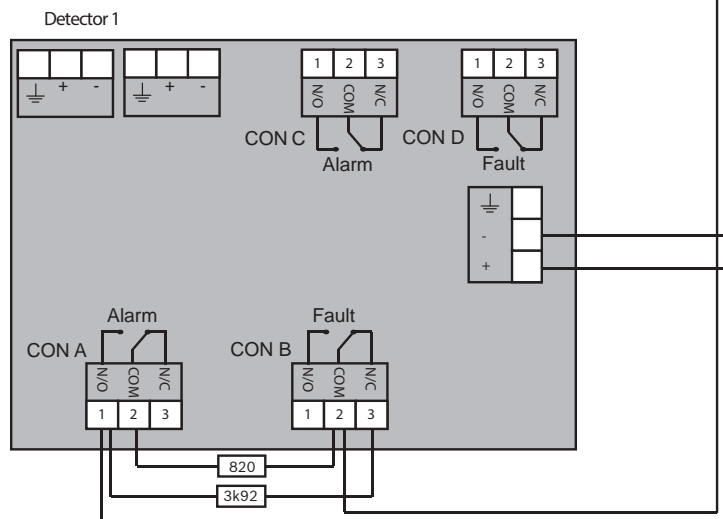
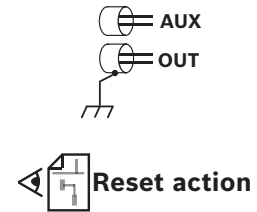
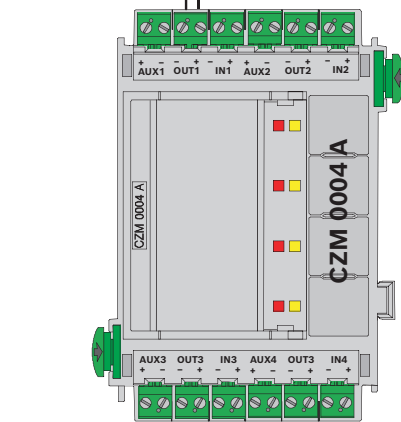


FIRERAY5000

1 x



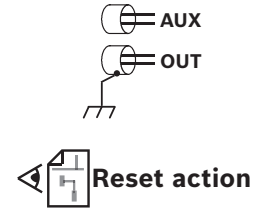
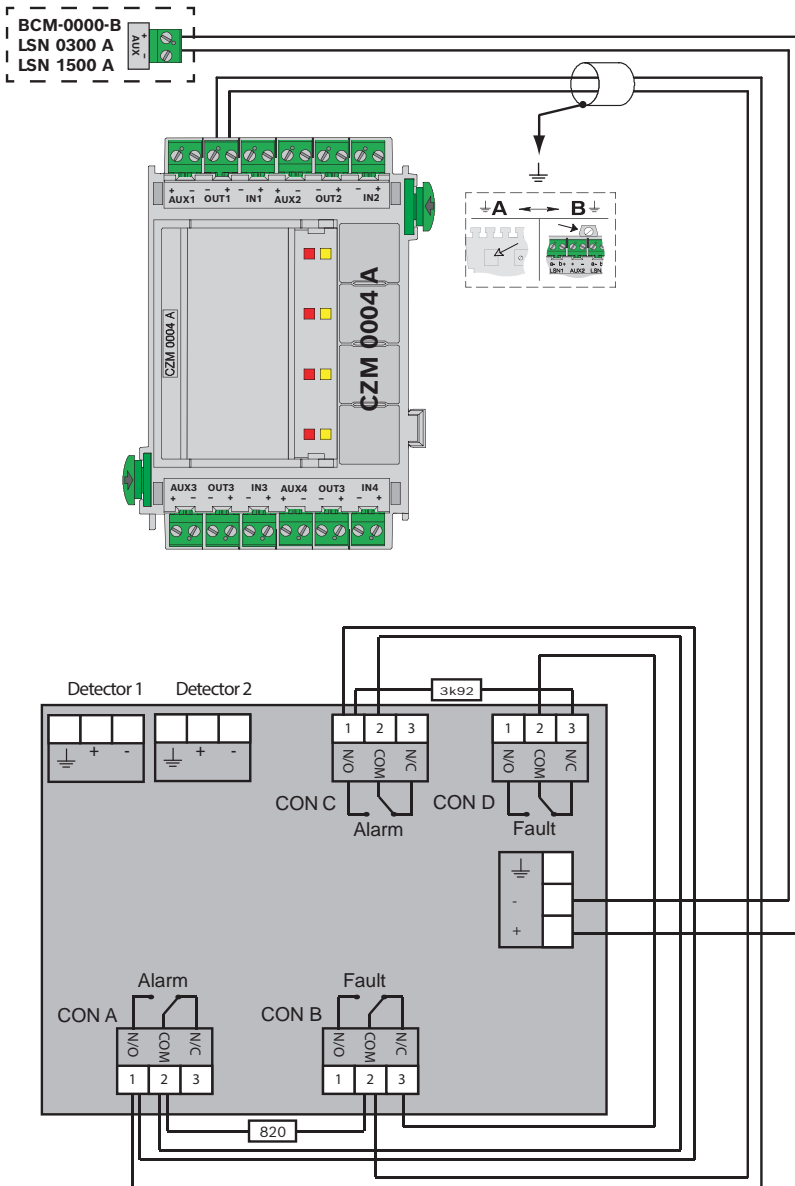
BCM-0000-B
LSN 0300 A
LSN 1500 A

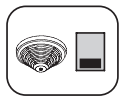




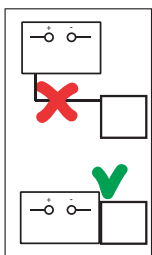
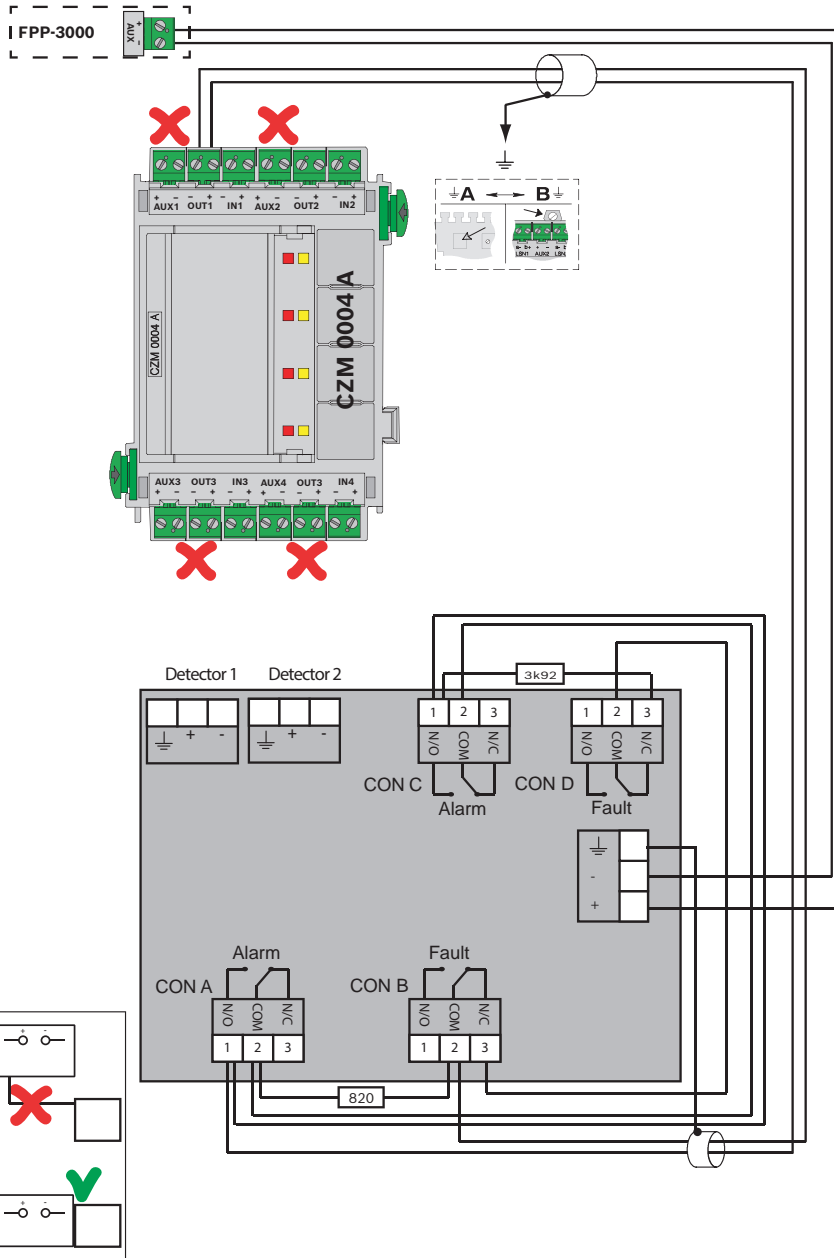
FIRERAY5000

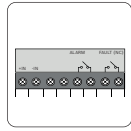
2 x OUT1



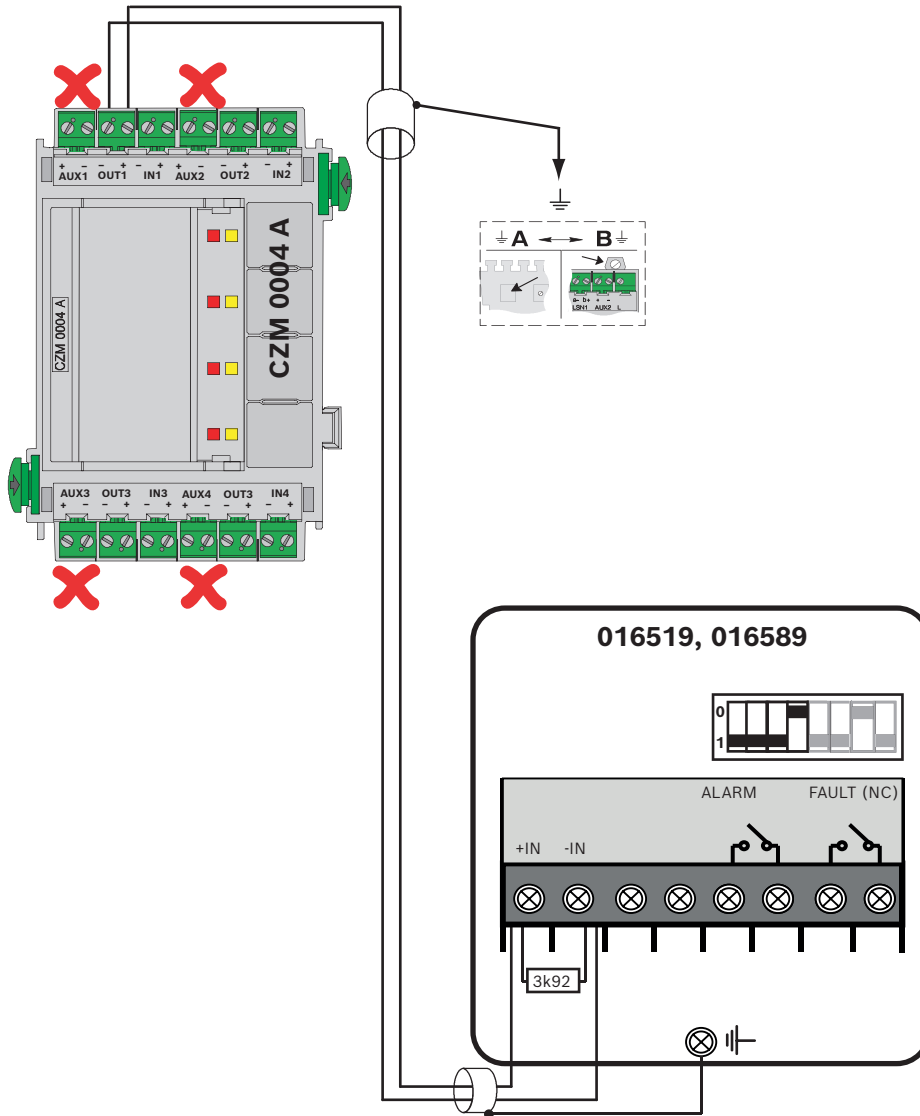
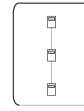


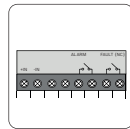
FIRERAY5000
2 x **OUT1**



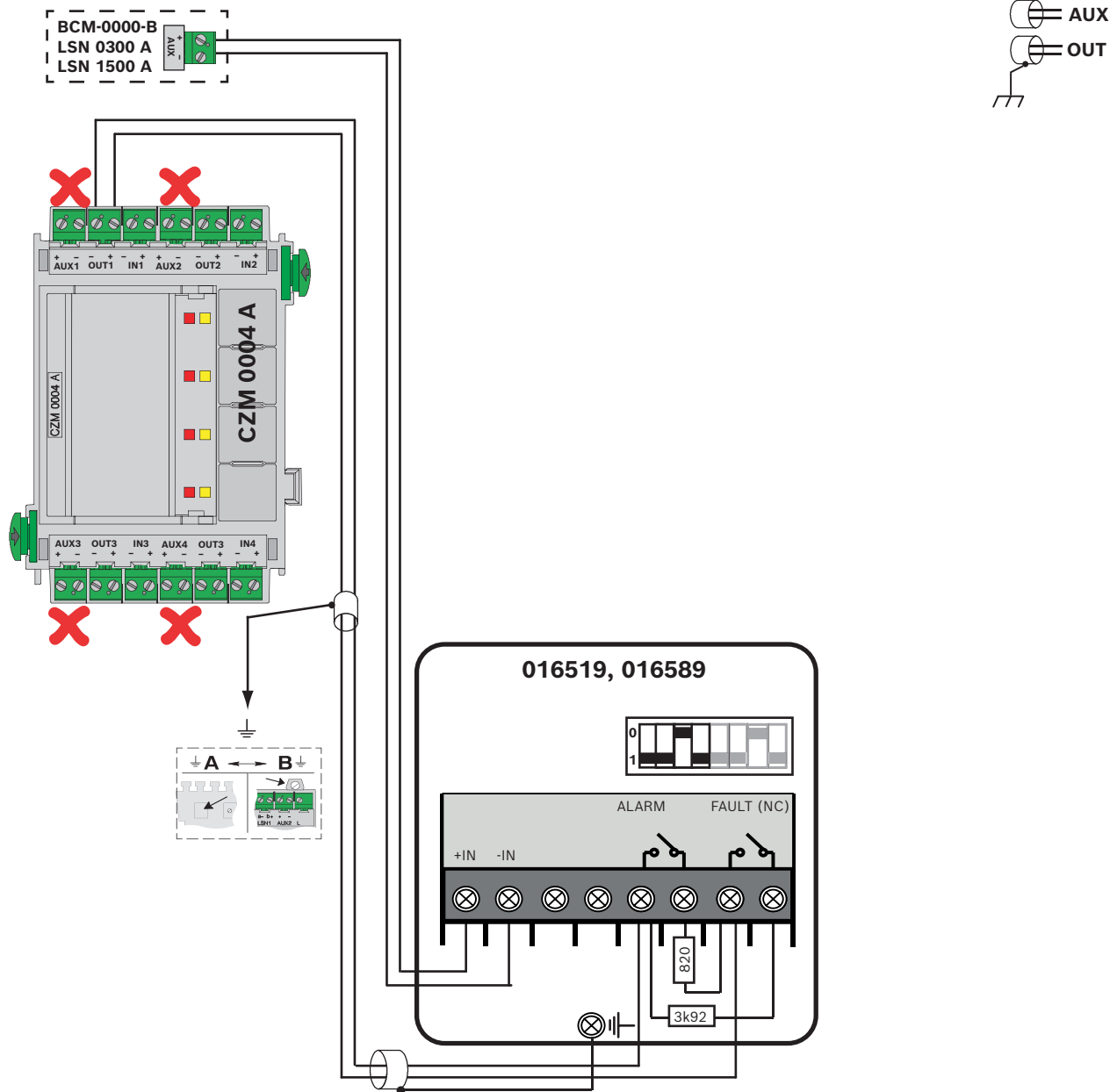
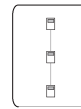


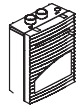
**016519, 016589
IR3 Flame Detector**



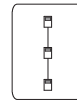


**016519, 016589
IR3 Flame Detector**

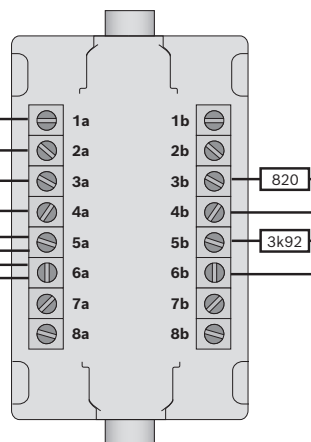
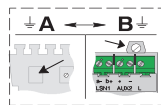
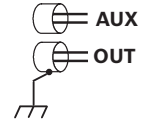
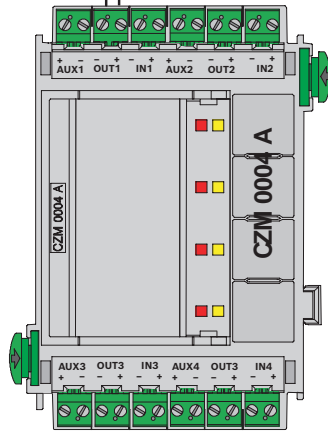


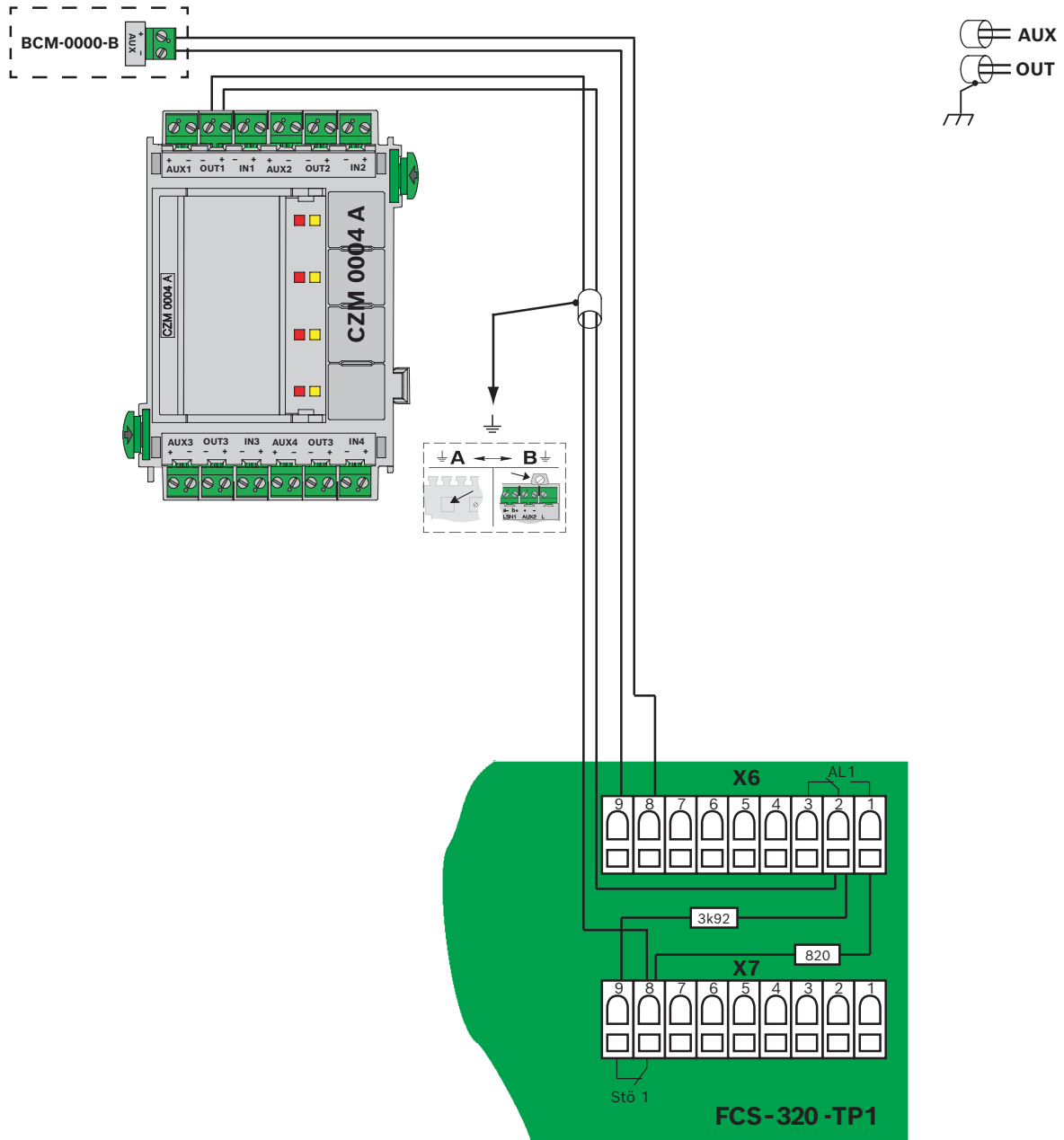
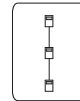
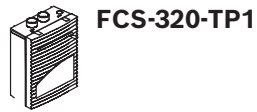


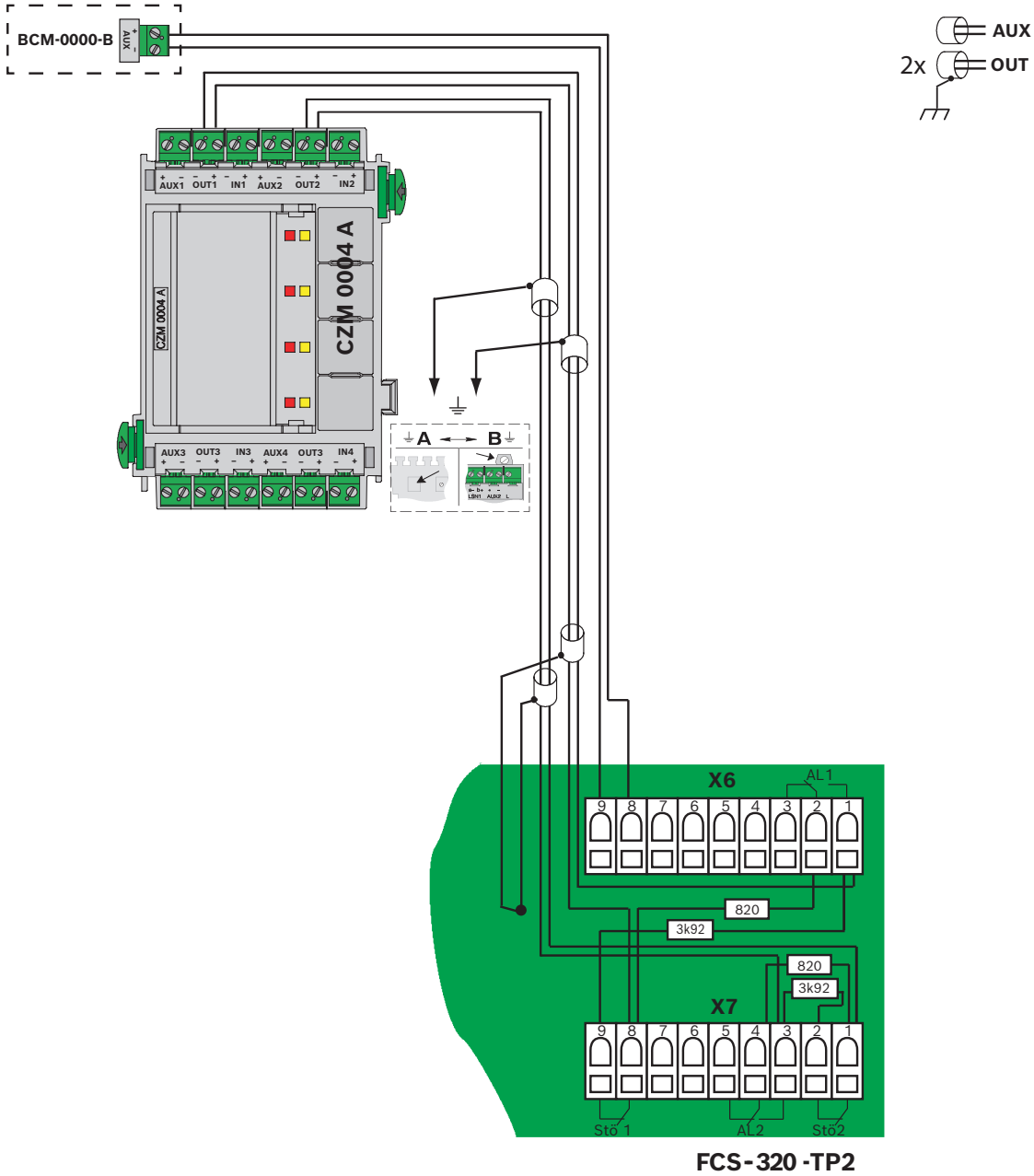
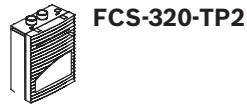
FCS-320-TM Series



BCM-0000-B
LSN 0300 A
LSN 1500 A



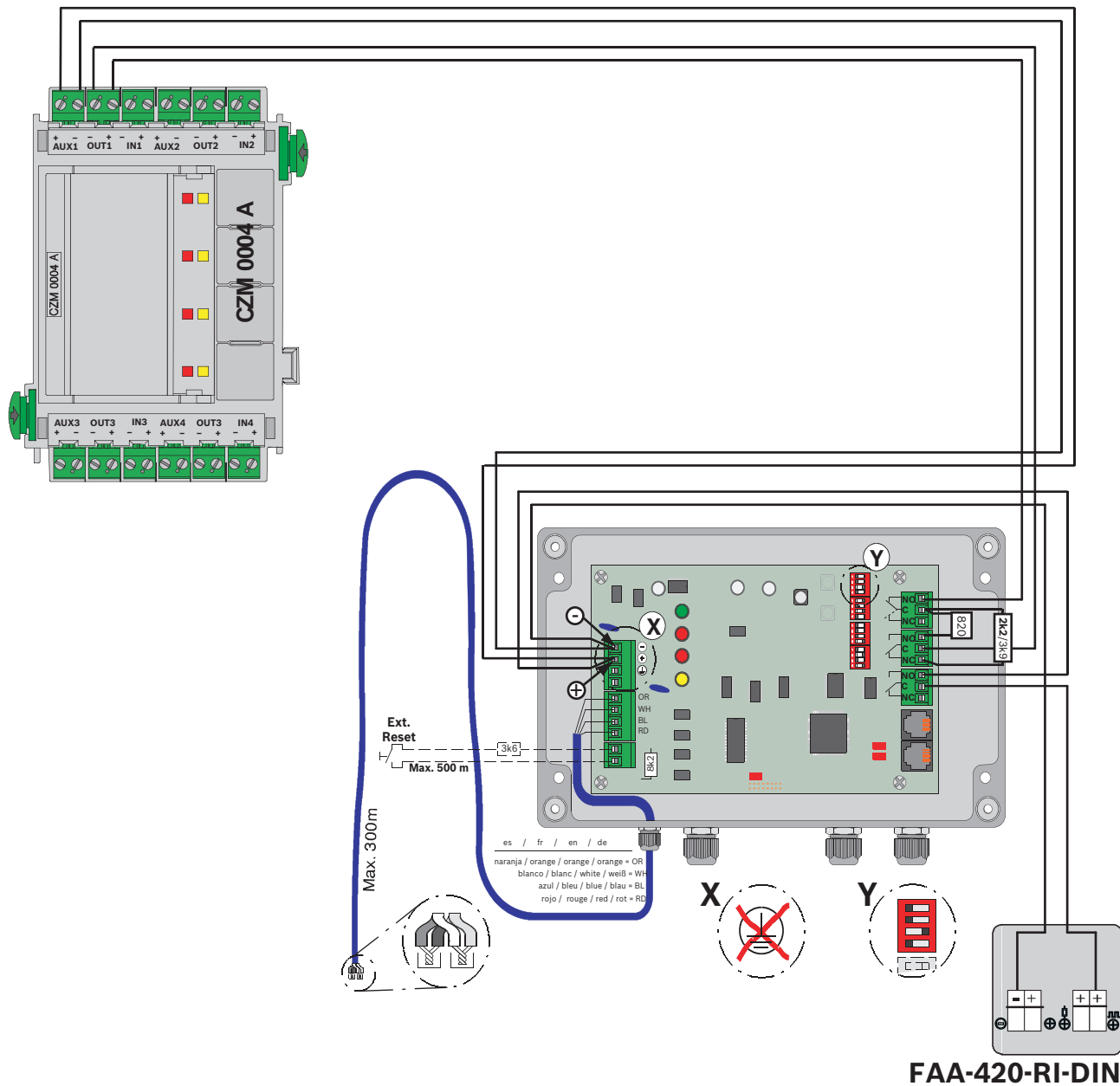




FCS-320-TP2

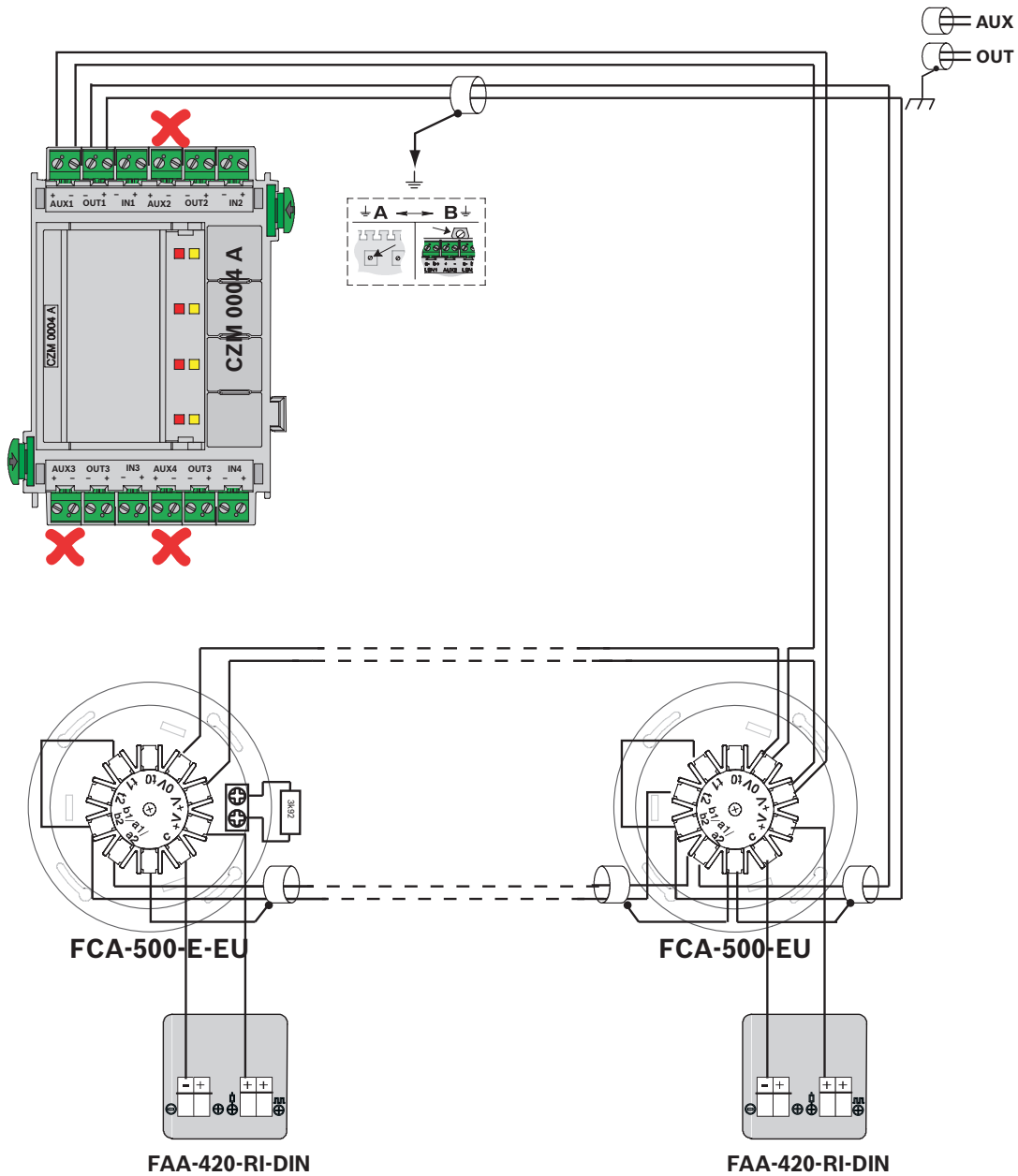


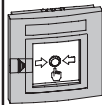
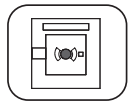
FCS-LWM-1



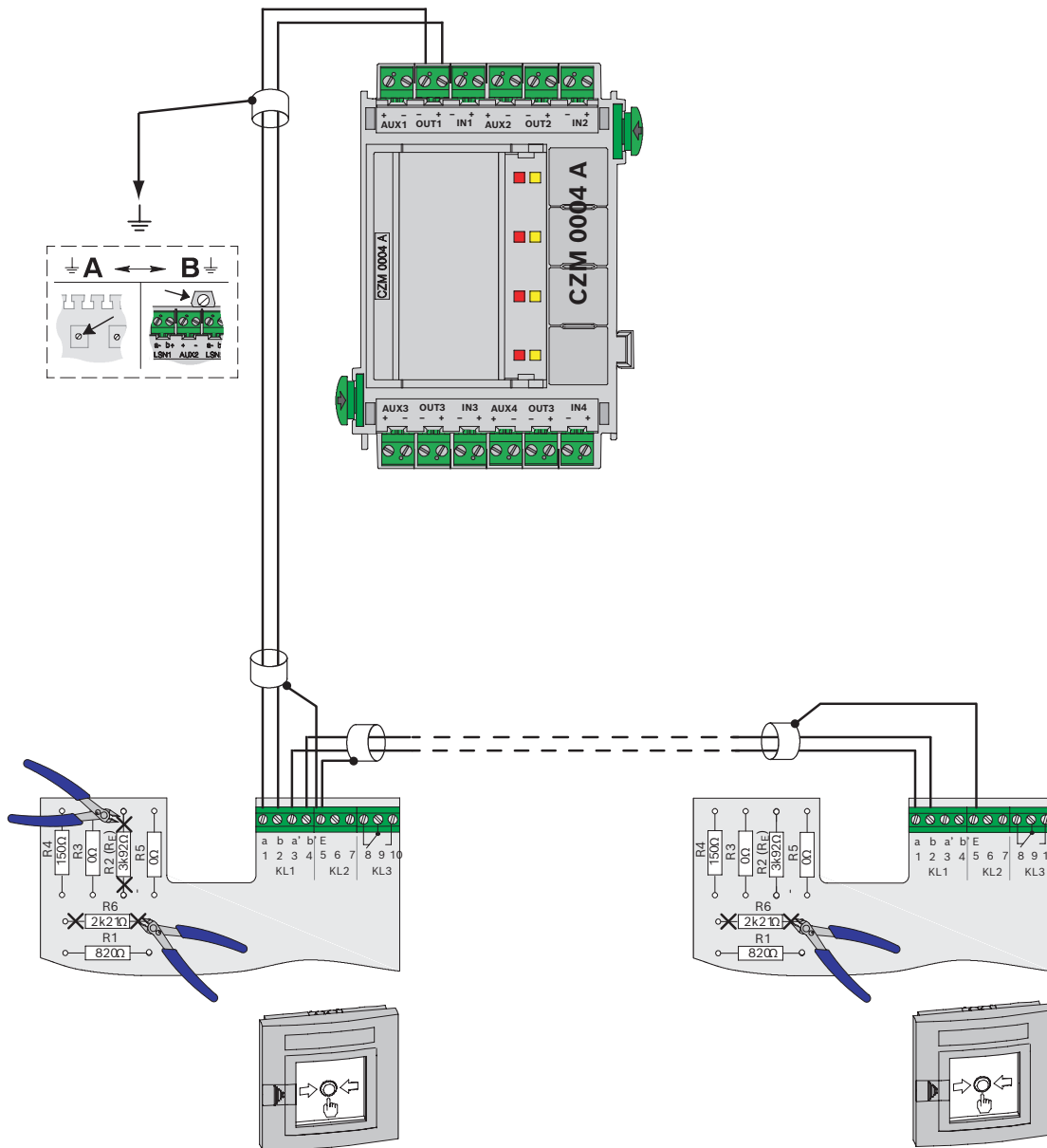
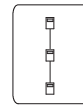


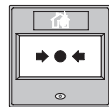
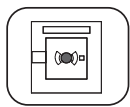
FCA-500-EU
 FCP-O 500
 FCP-O 500-P
 FCP-OC 500
 FCP-OC 500-P



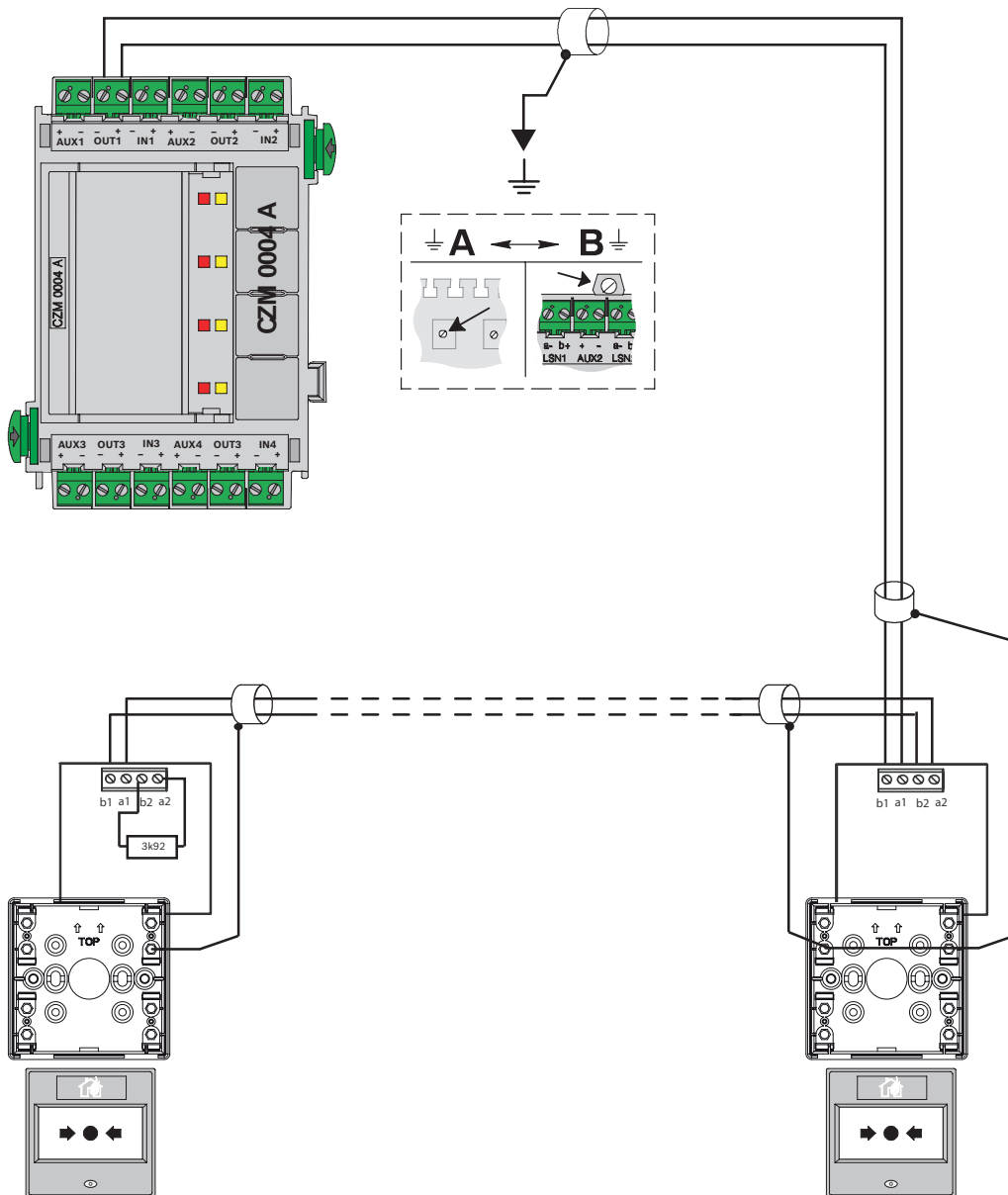
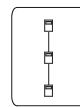


FMC-120-DKM-G-R
FMC-120-DKM-H-R
FMC-120-DKM-G-B
FMC-120-DKM-H-B
FMC-120-DKM-G-Y





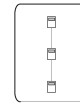
FMC-300RW-GSGBU
FMC-300RW-GSRBU
FMC-300RW-GSGRD
FMC-300RW-GSRRD
FMC-300RW-GSGYE
FMC-300RW-GSRYE



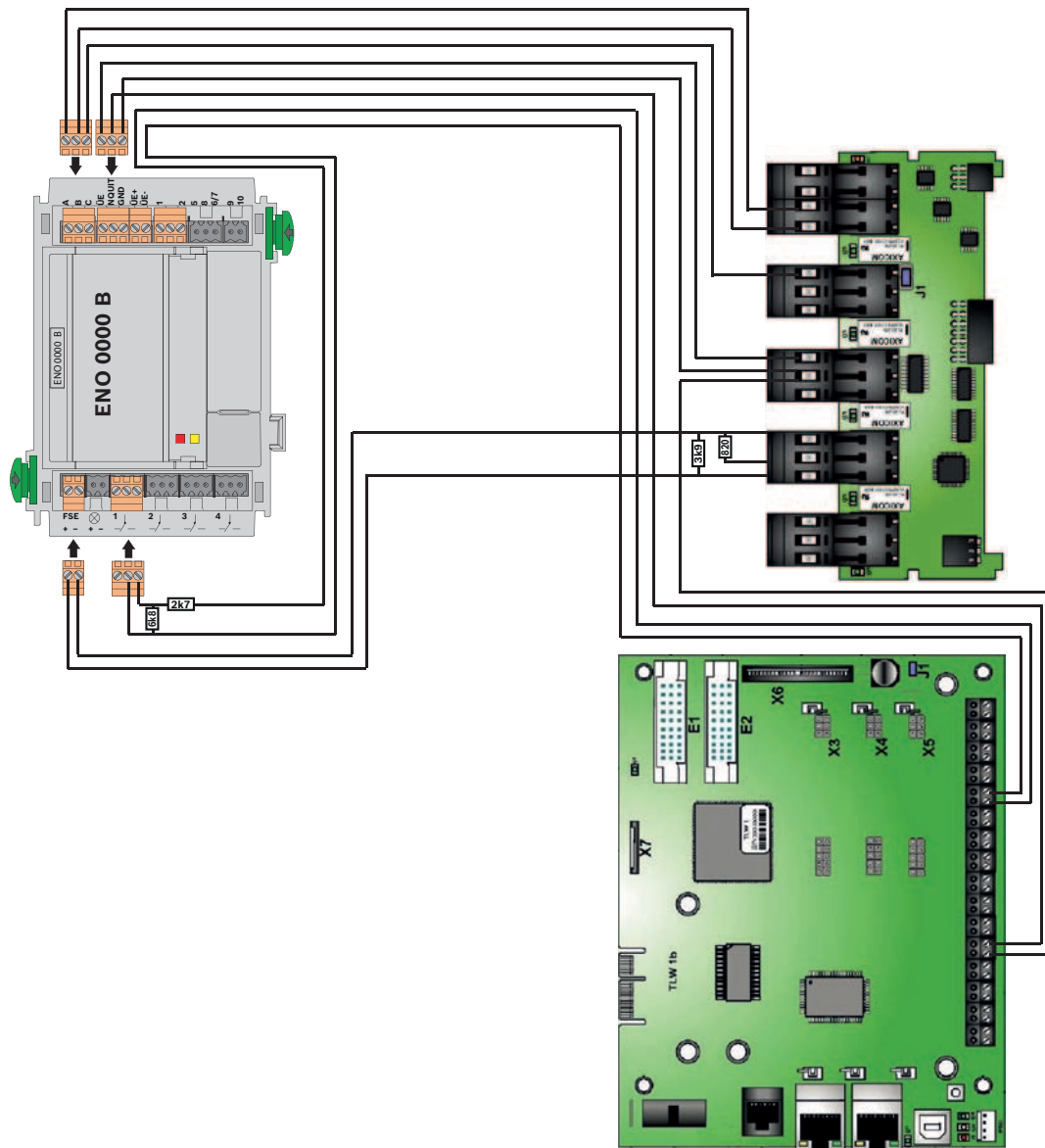
2.4.3 ENO 0000 A/B

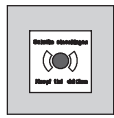
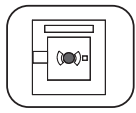


AT5000 IP/GPRS

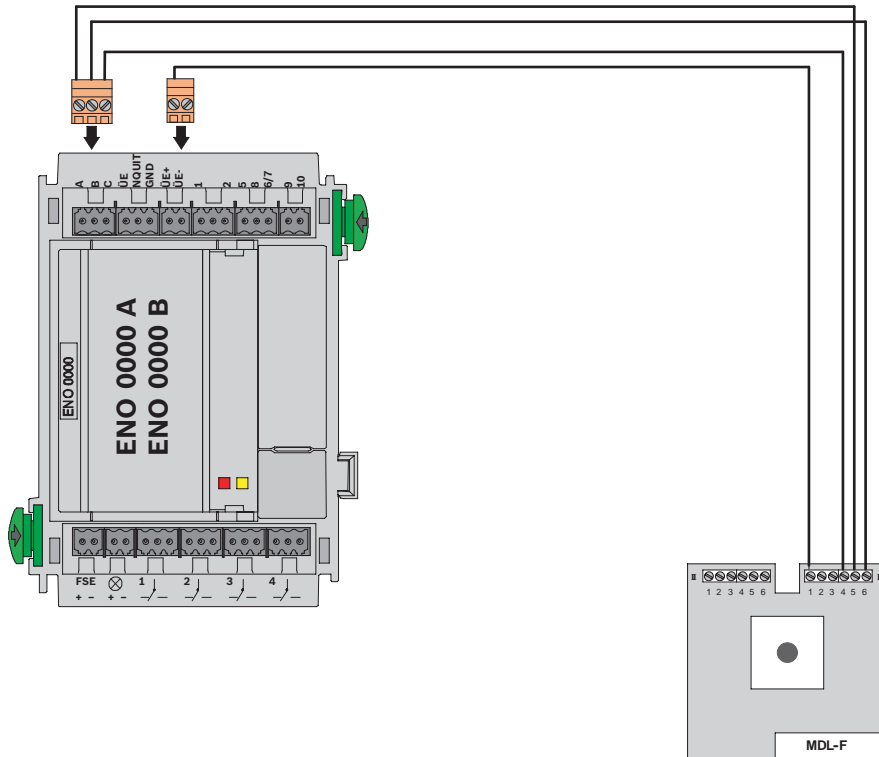


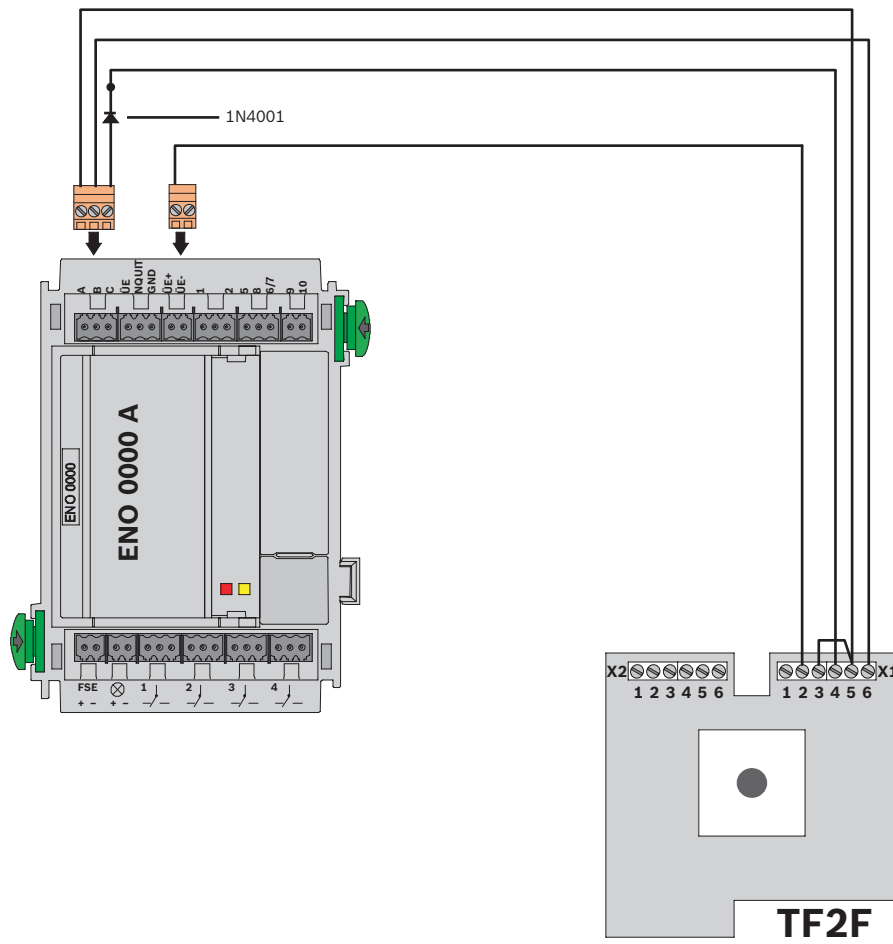
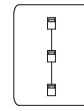
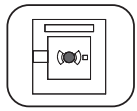
EN 54-2

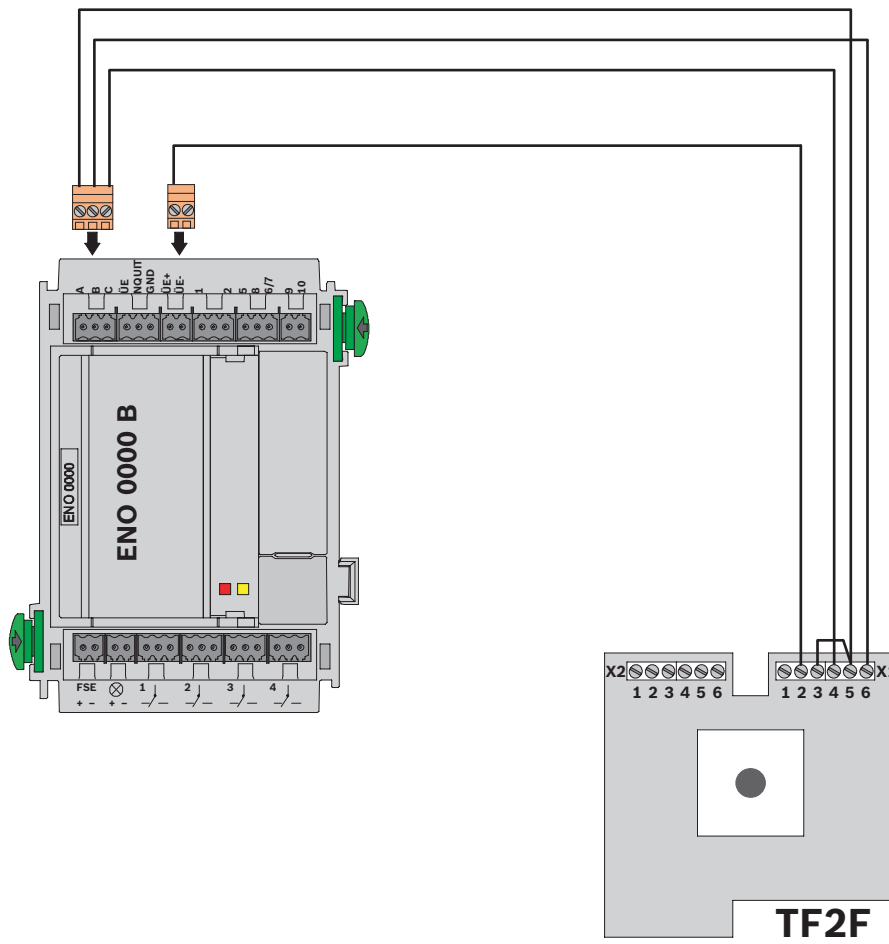
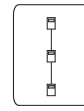
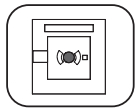


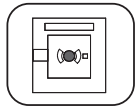


MDL-F

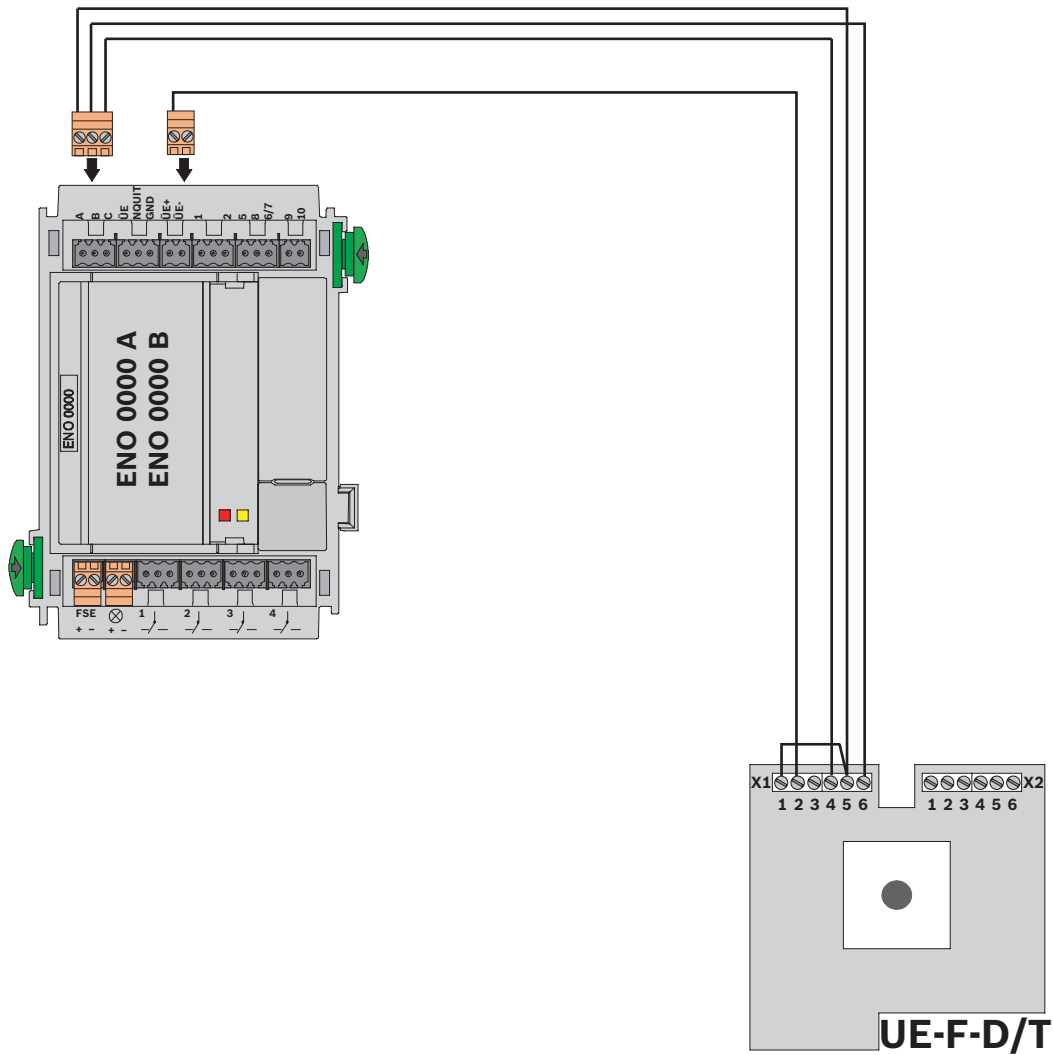


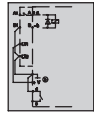




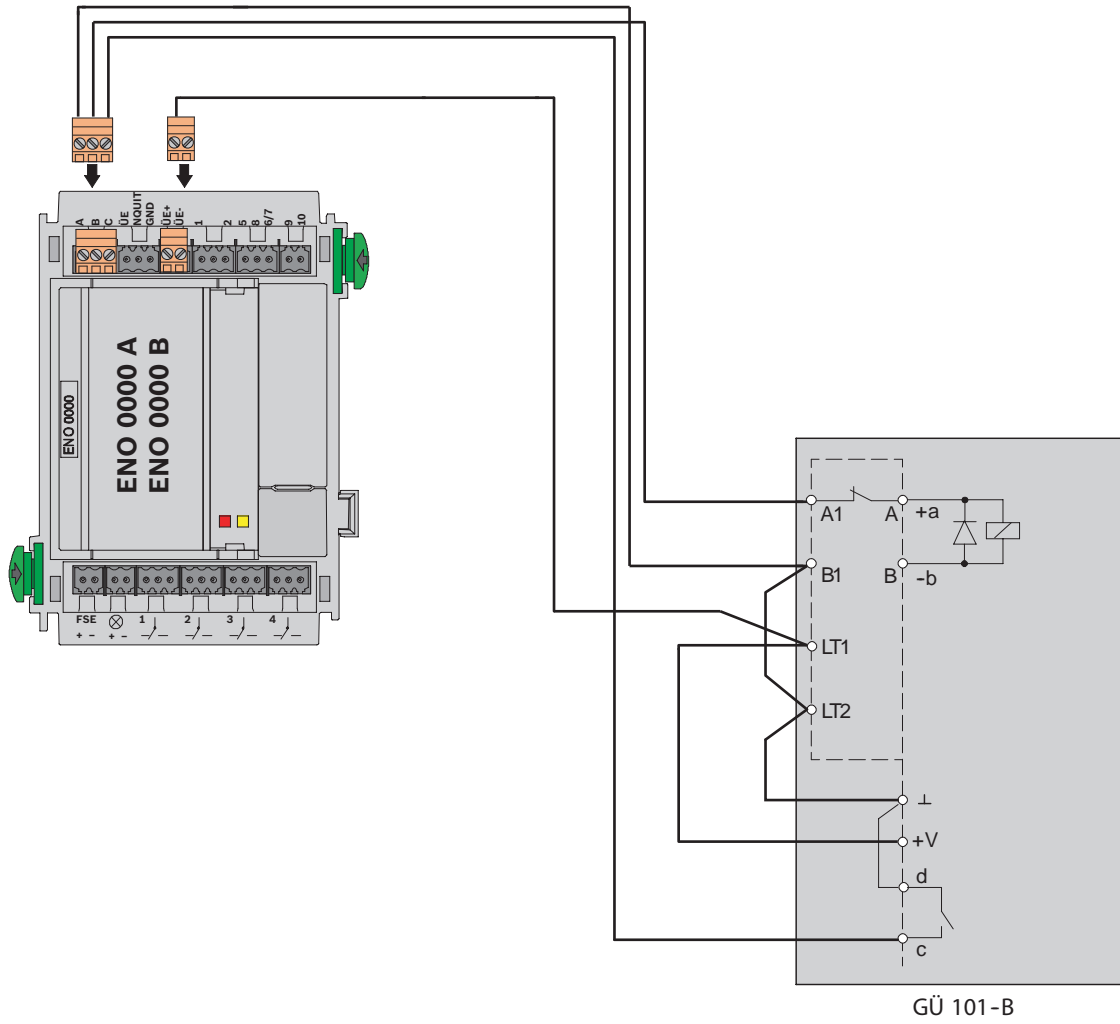
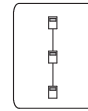


UE-F-D/T

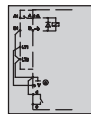




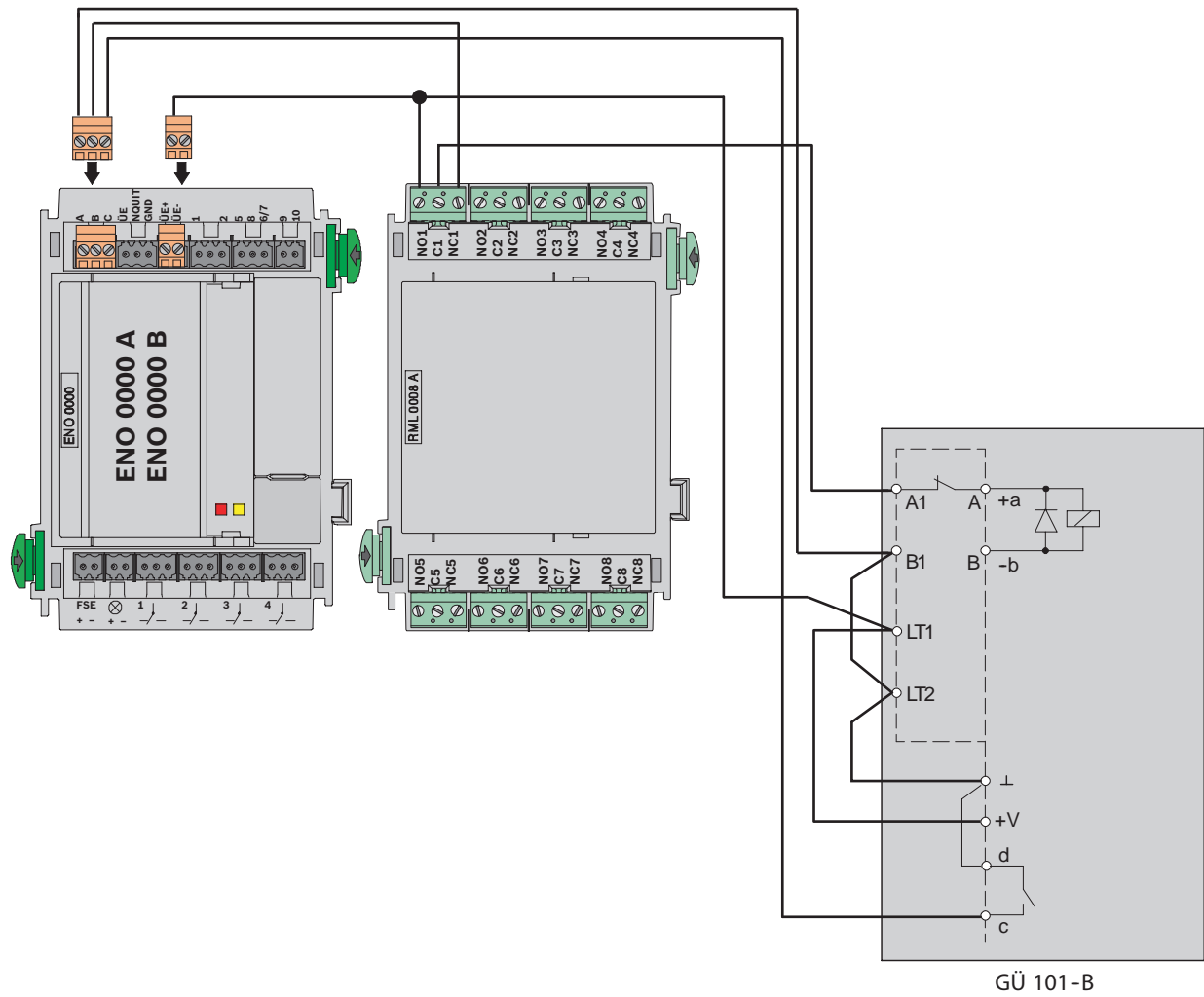
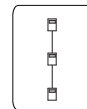
GÜ 101-B



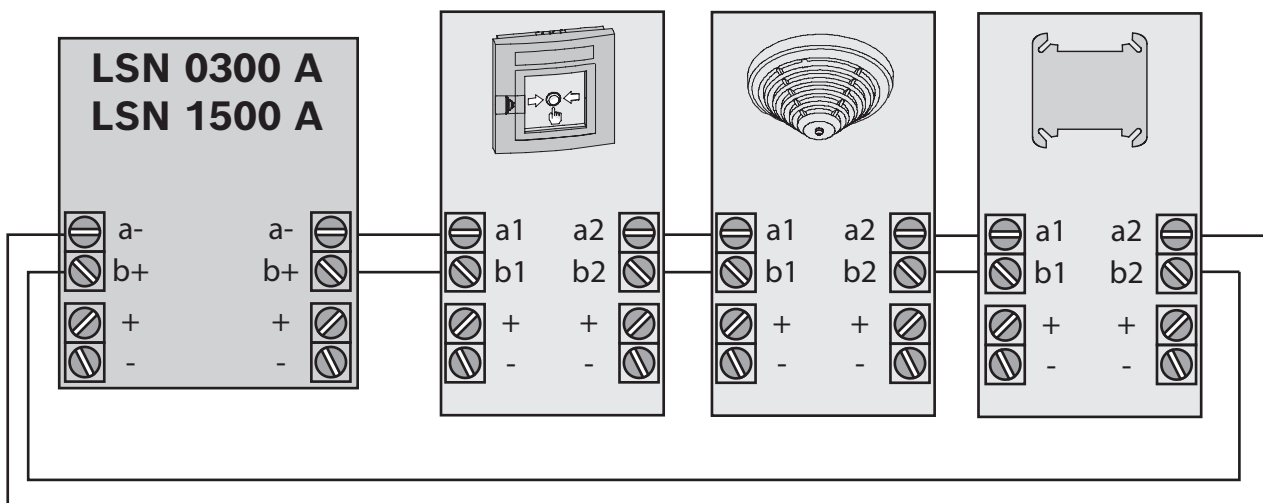
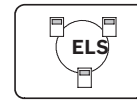
GÜ 101-B

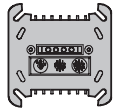
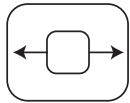


GÜ 101-B

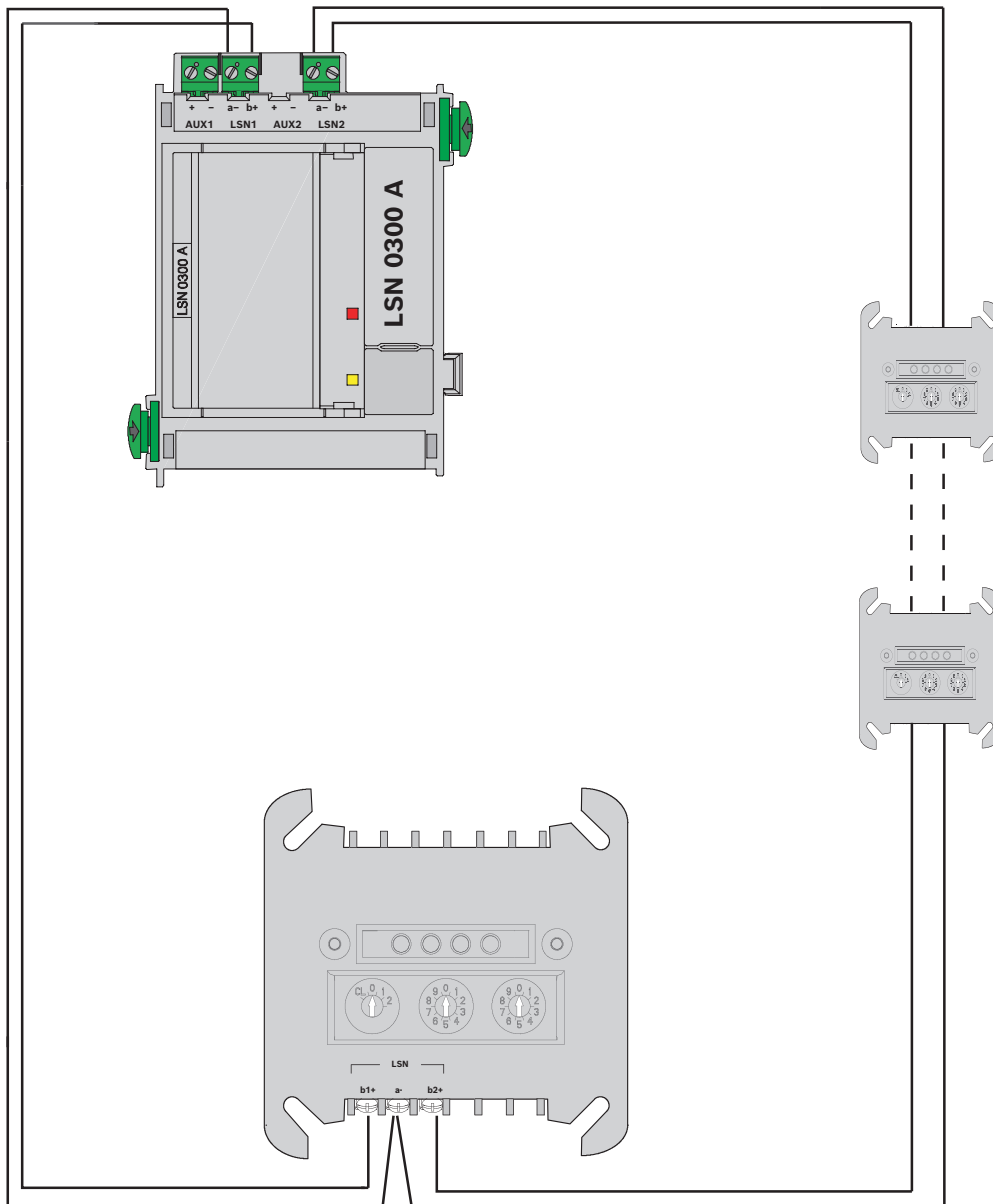
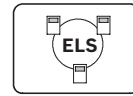


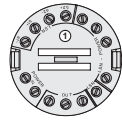
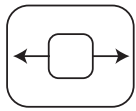
2.4.4 LSN 0300 A



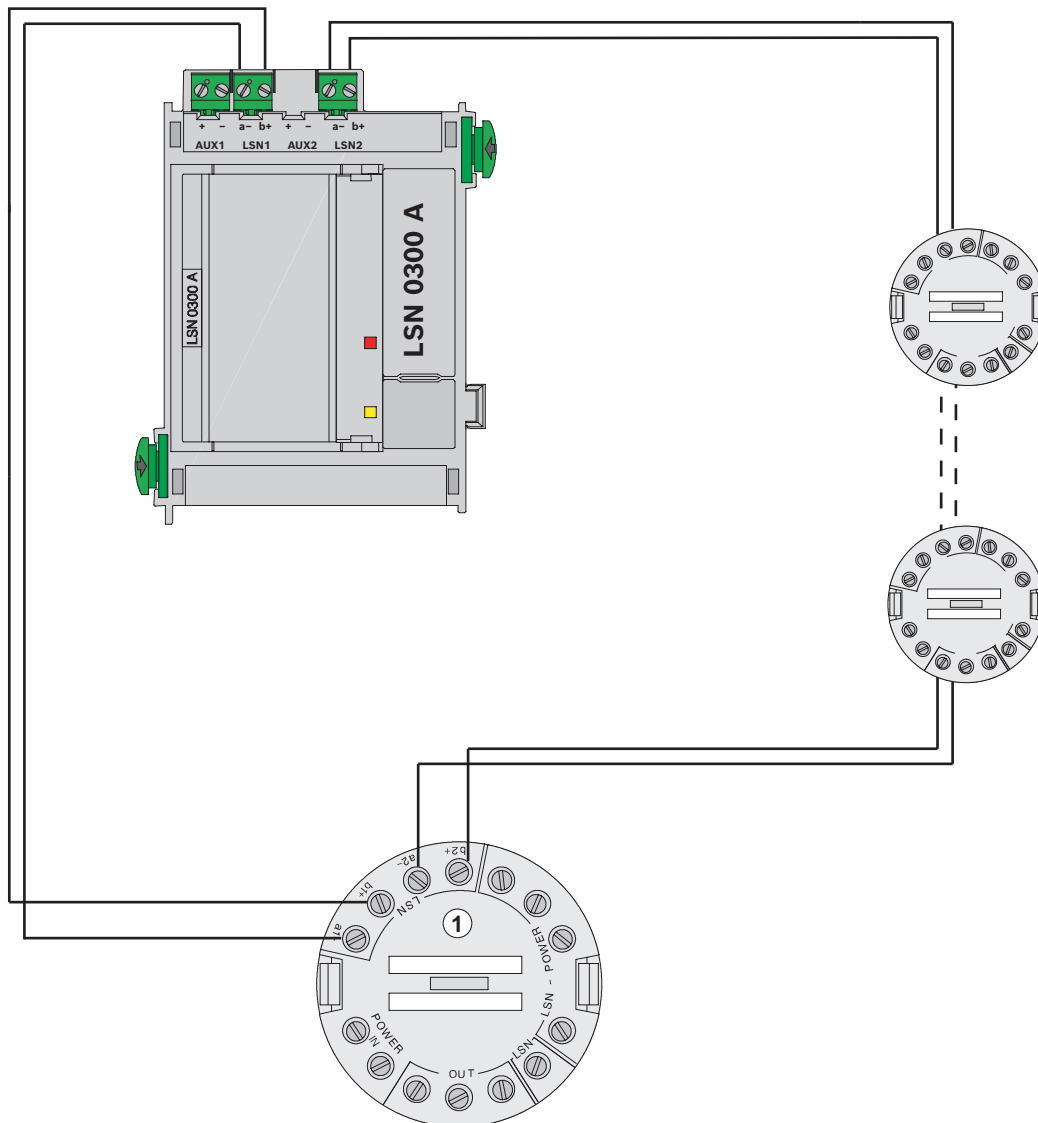
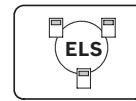


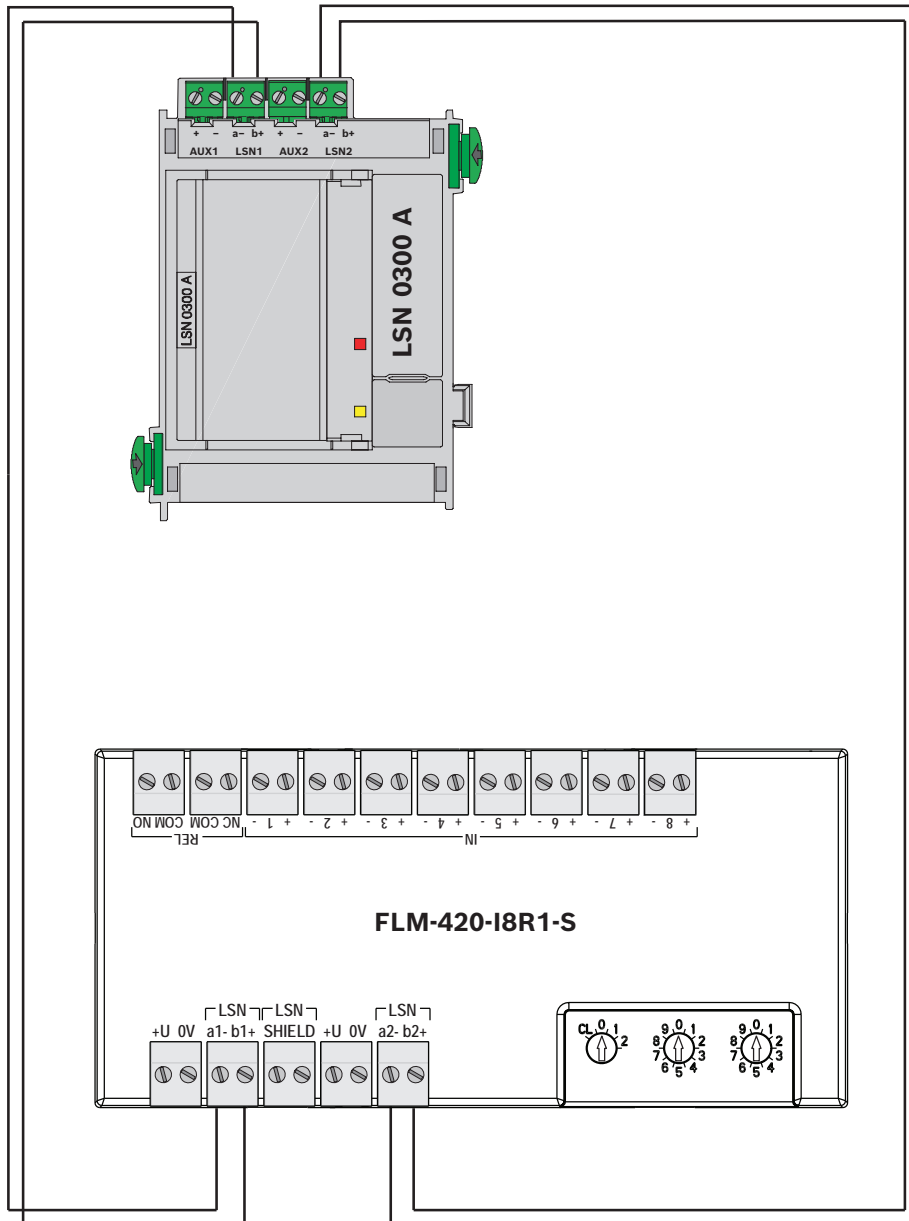
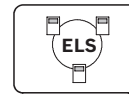
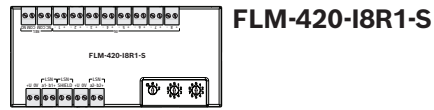
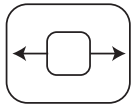
FLM-I 420-S
 FLM-420-I2-D
 FLM-420-O1I1-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

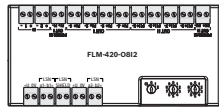
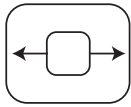




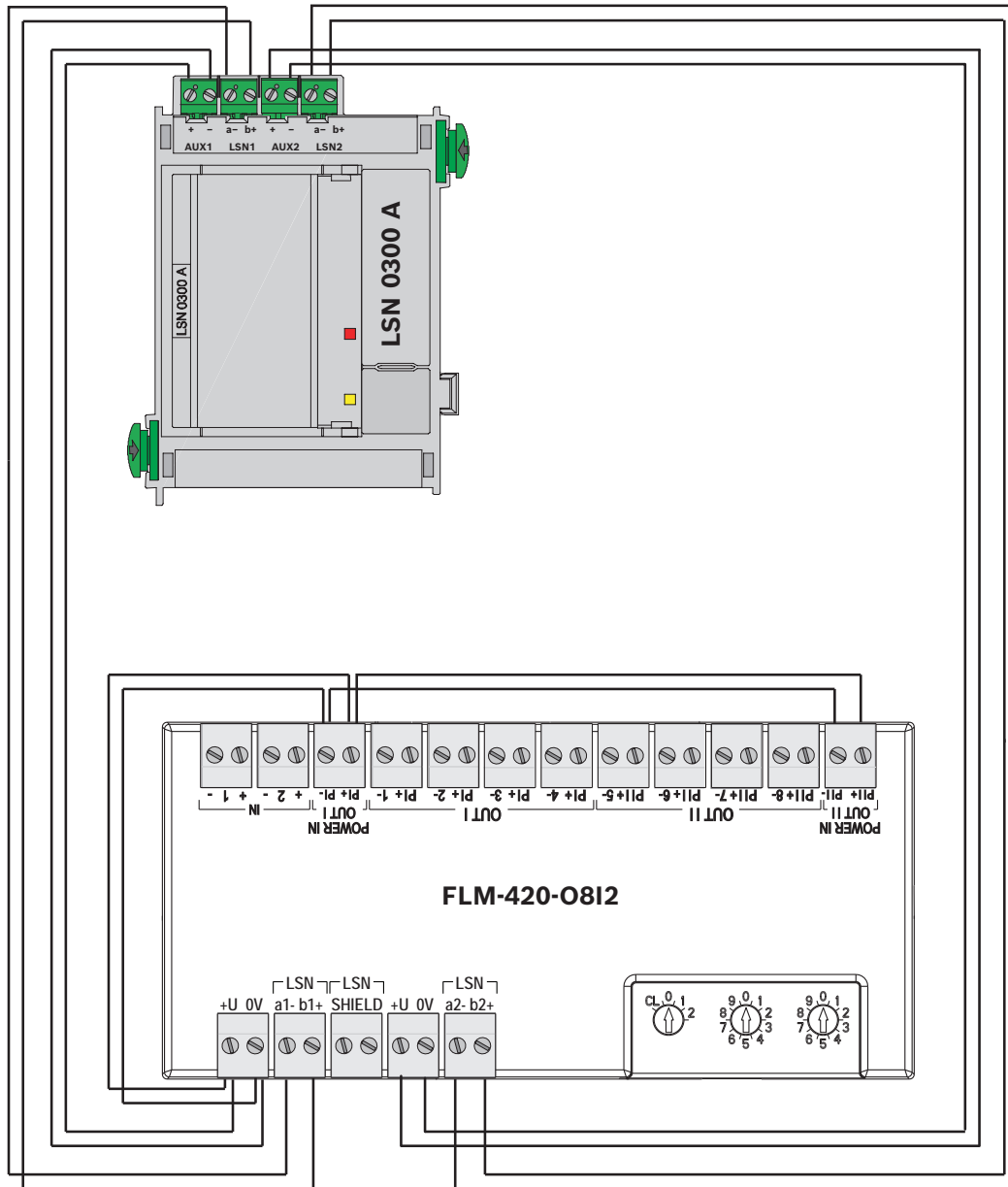
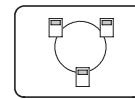
FLM-420-12-E/W
FLM-420-RLV1-E

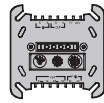
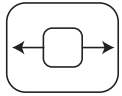




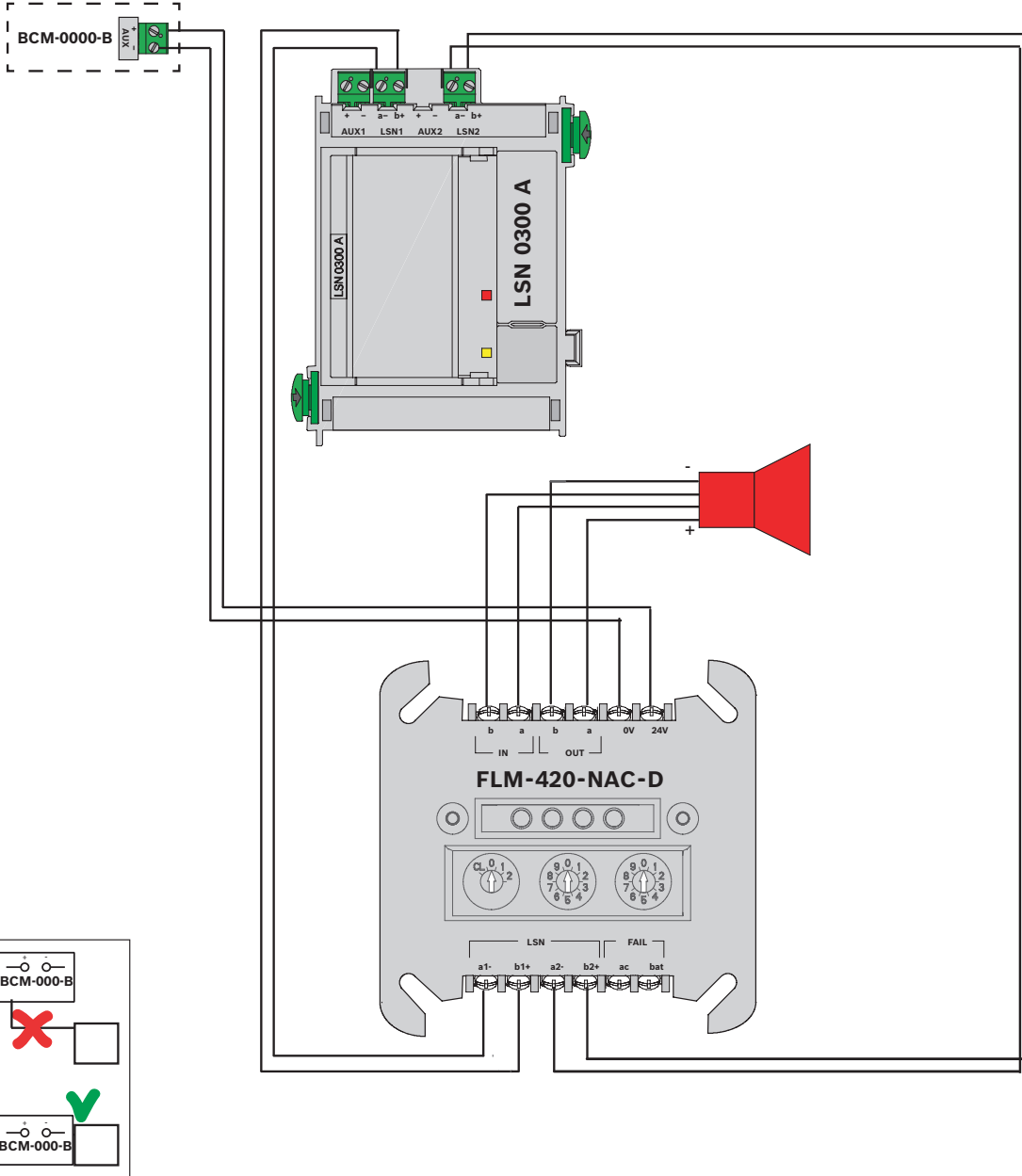
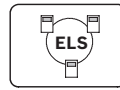


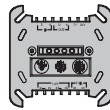
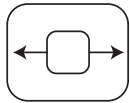
FLM-420-0812-S



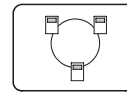


FLM-420-NAC-D/S

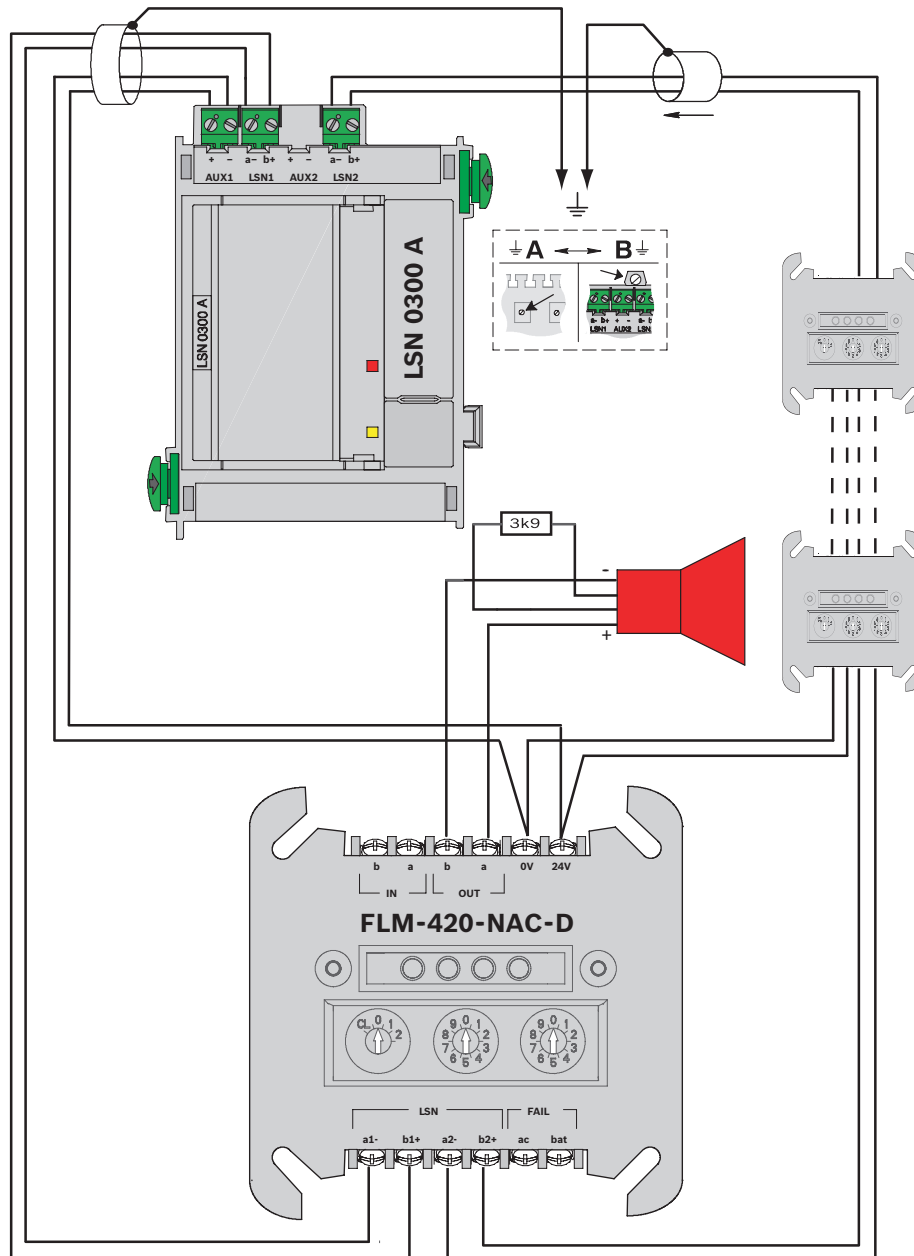


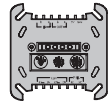
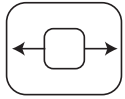


FLM-420-NAC-D/S

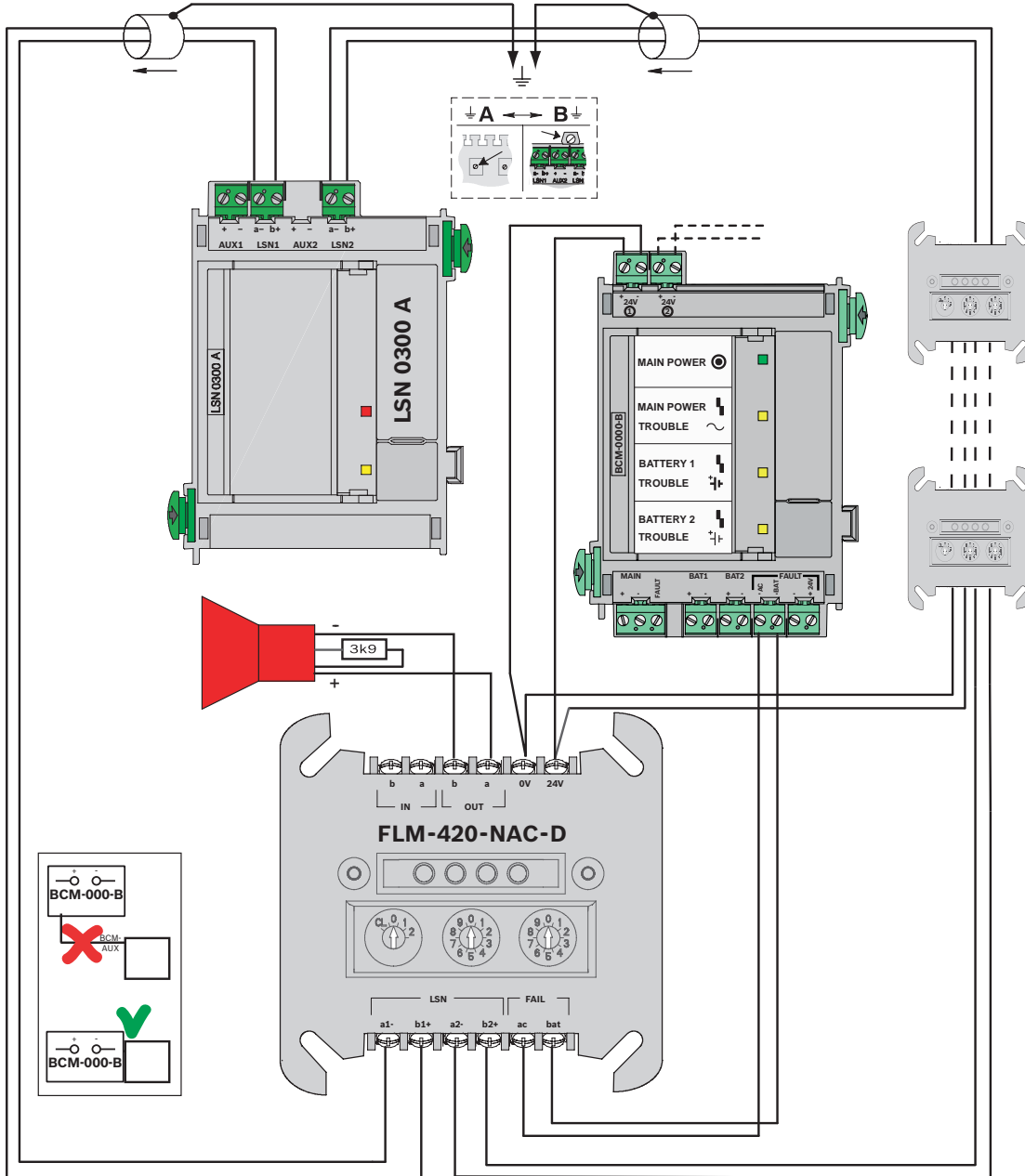
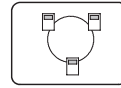


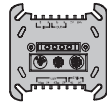
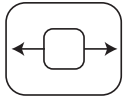
EN 54-2



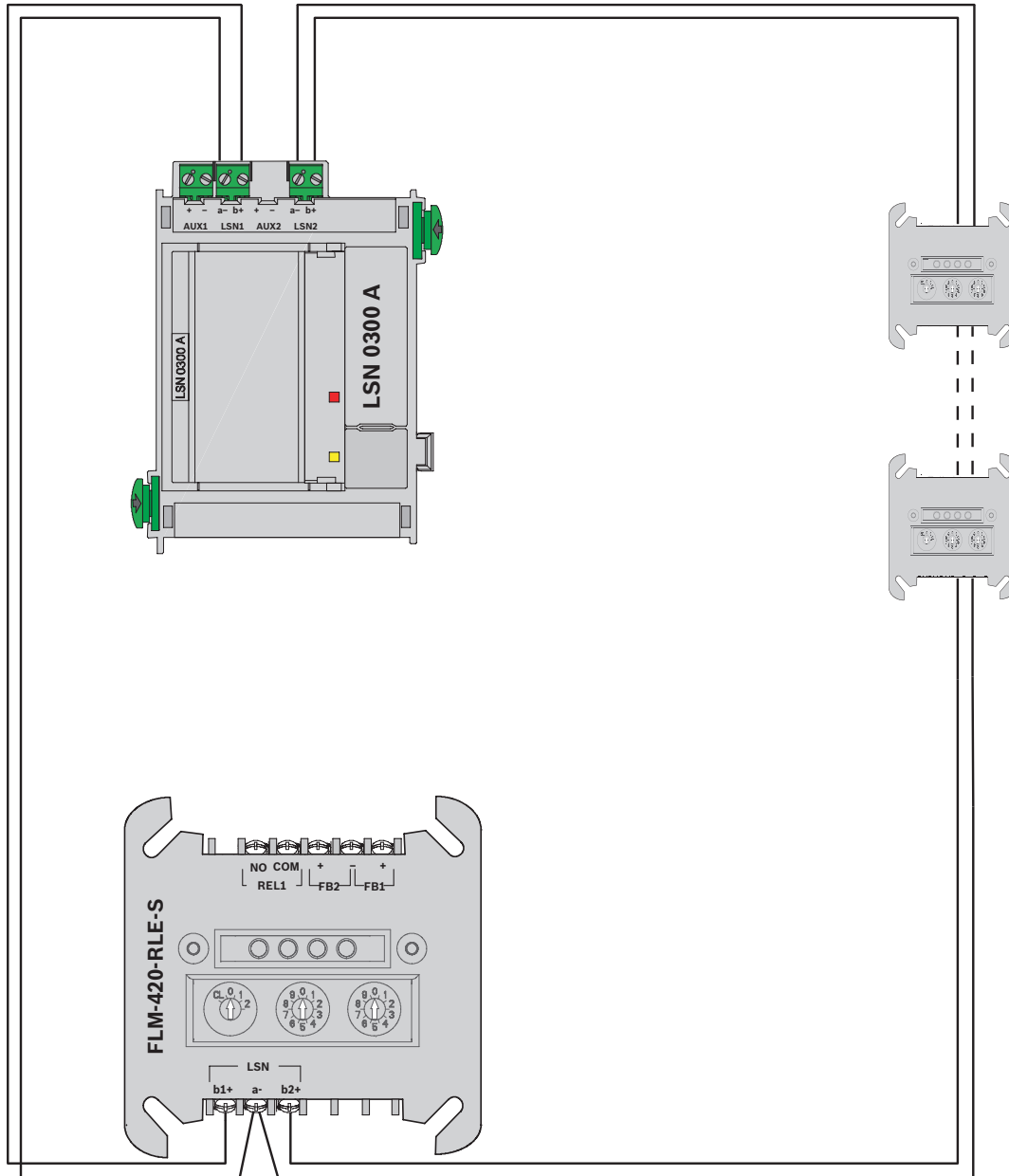
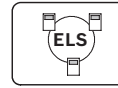


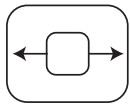
FLM-420-NAC-D/S



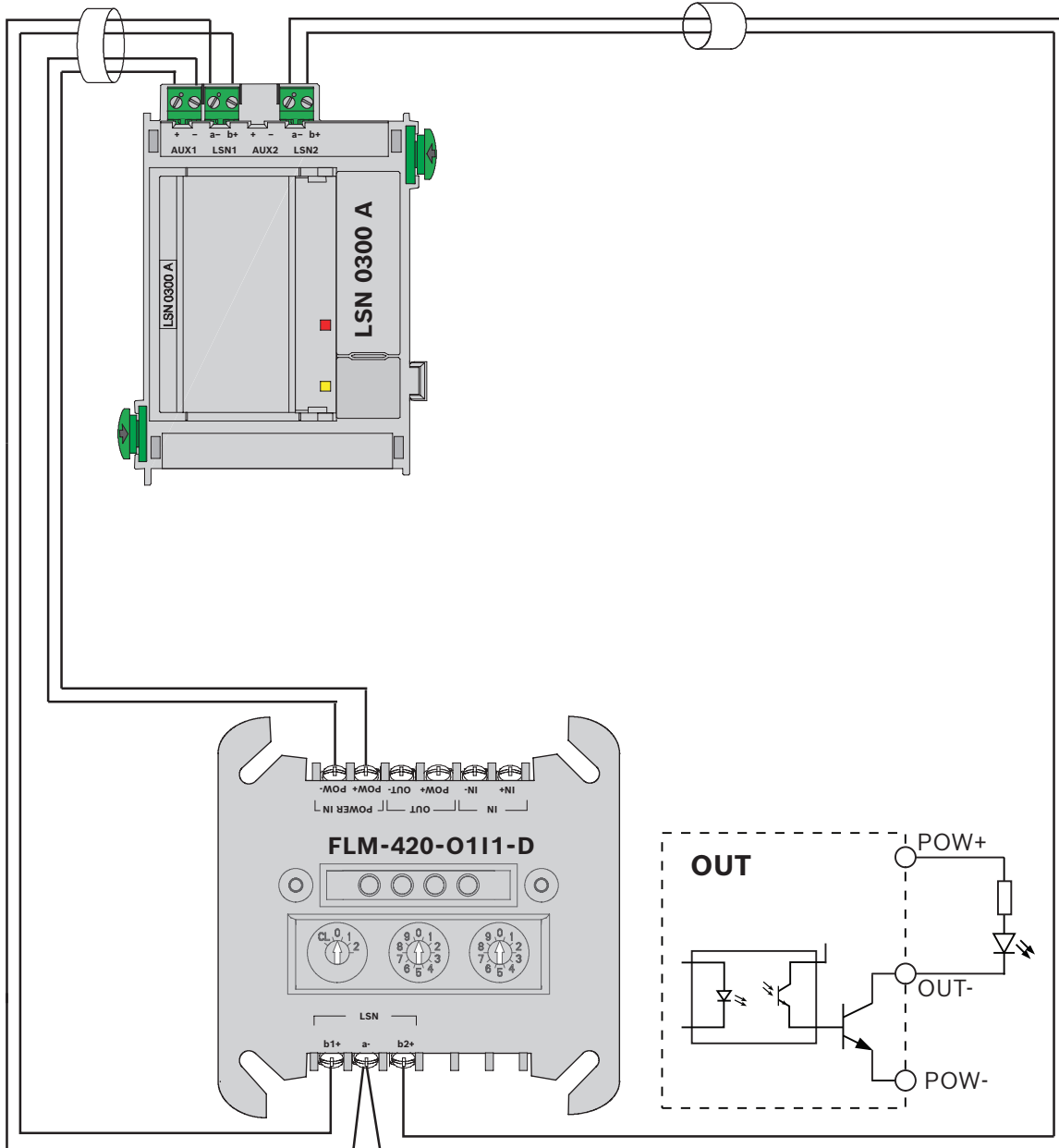
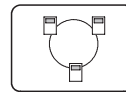


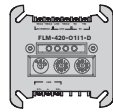
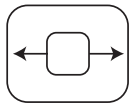
FLM-420-RLE-S



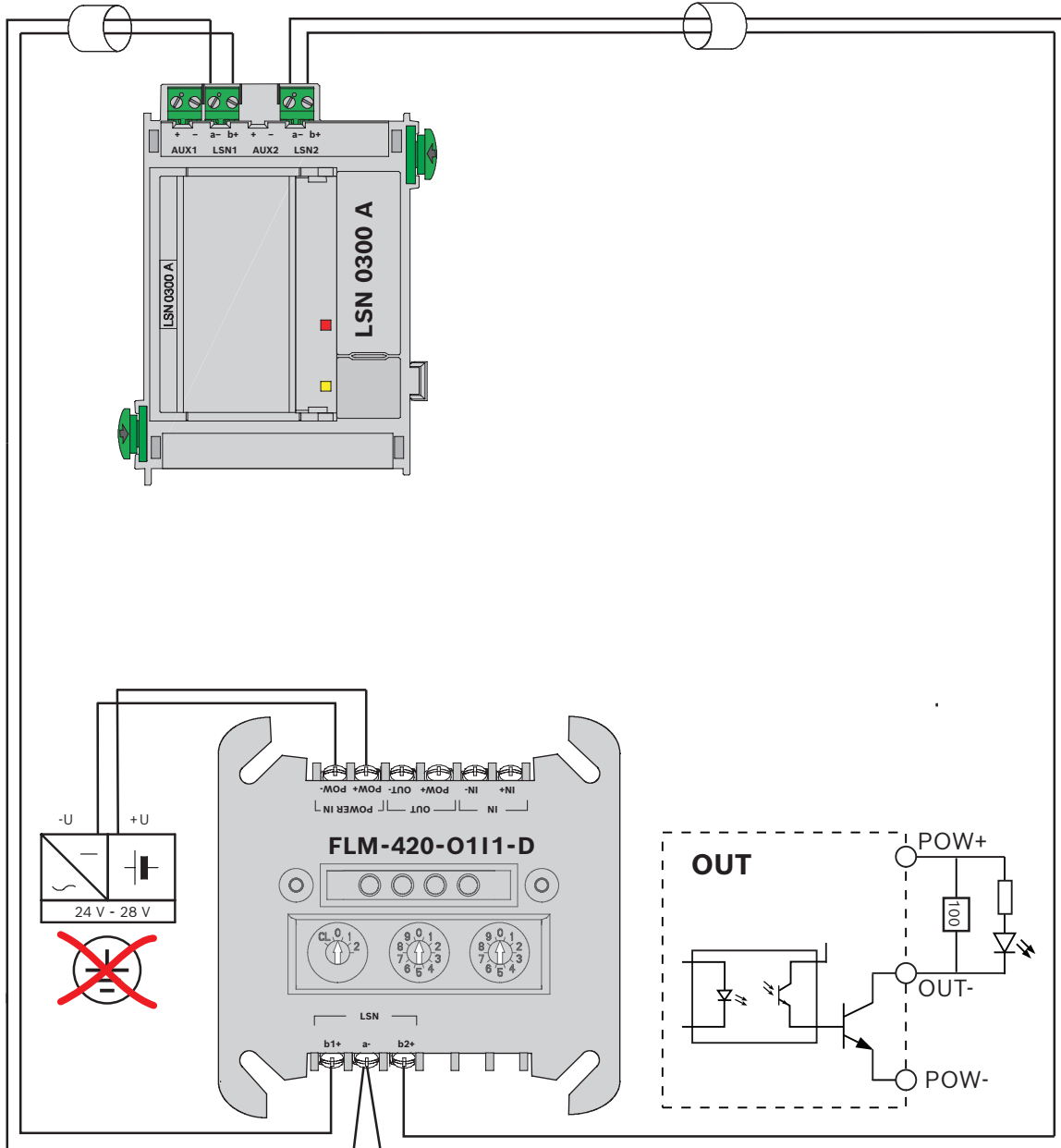
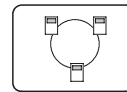


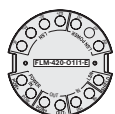
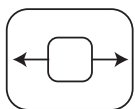
FLM-420-O111-D



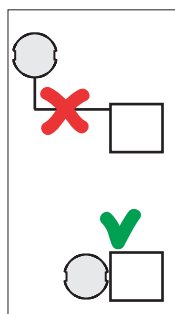
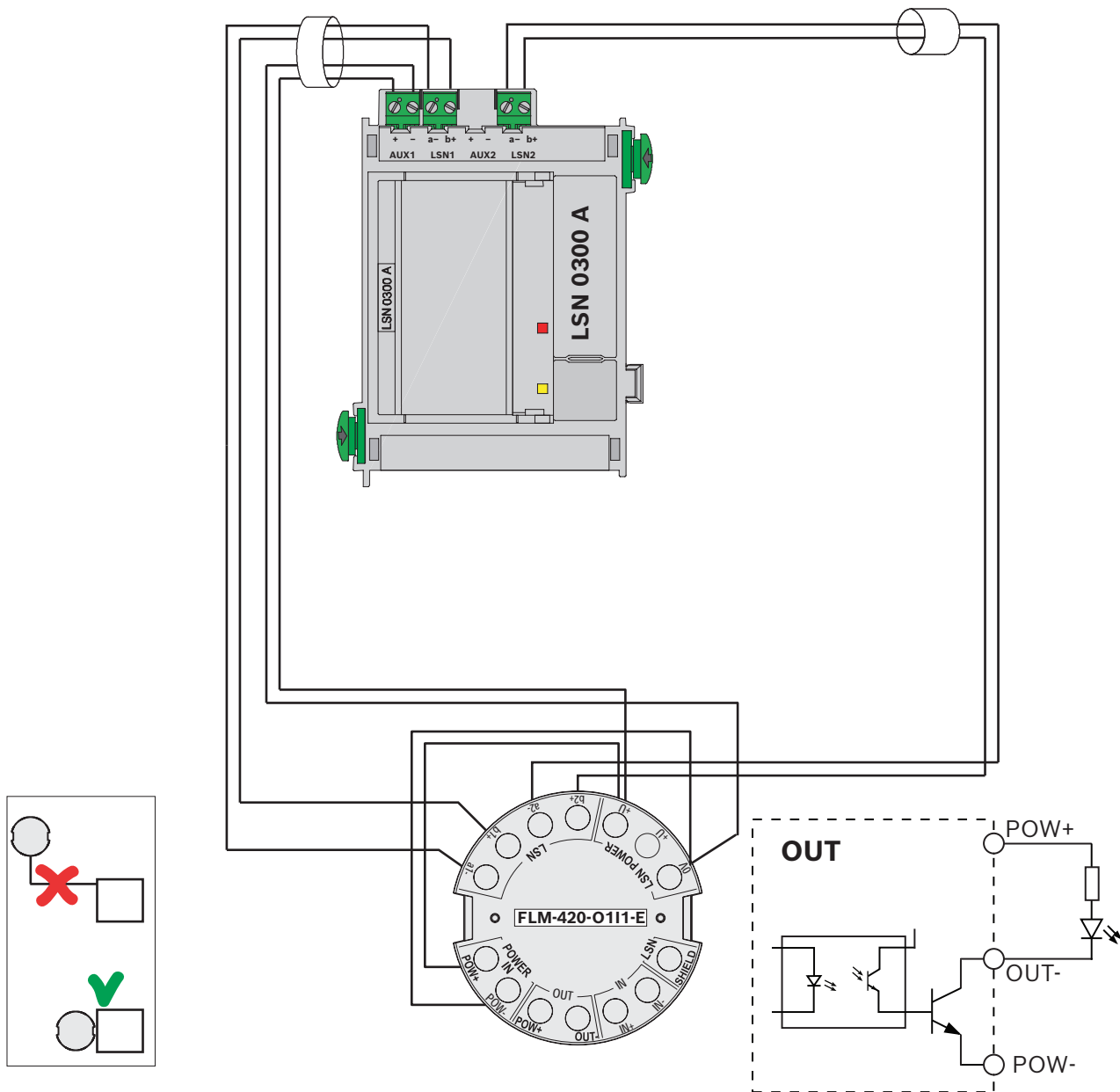
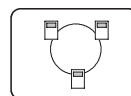


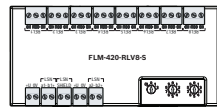
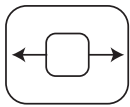
FLM-420-O111-D



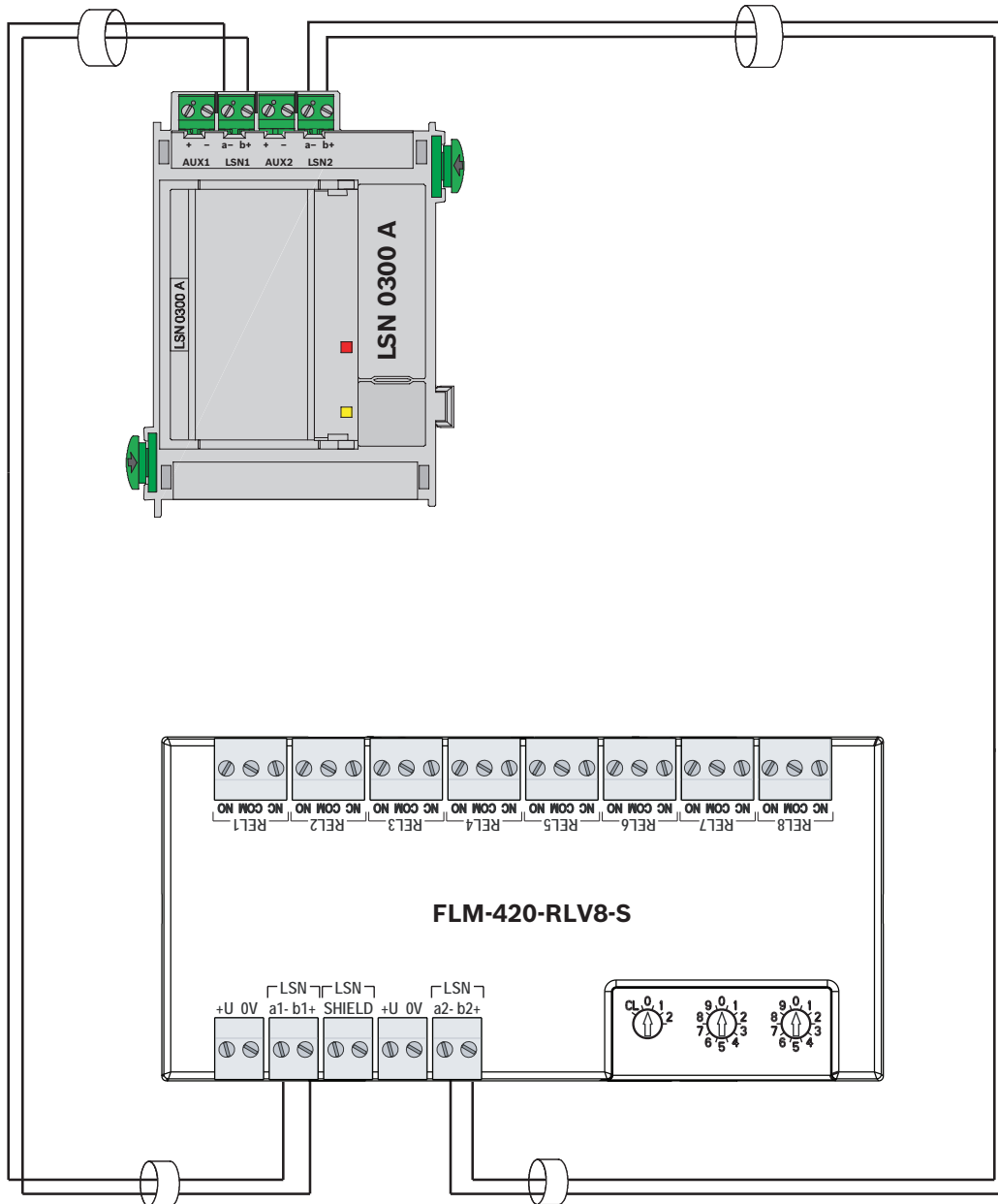
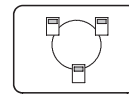


FLM-420-O111-E



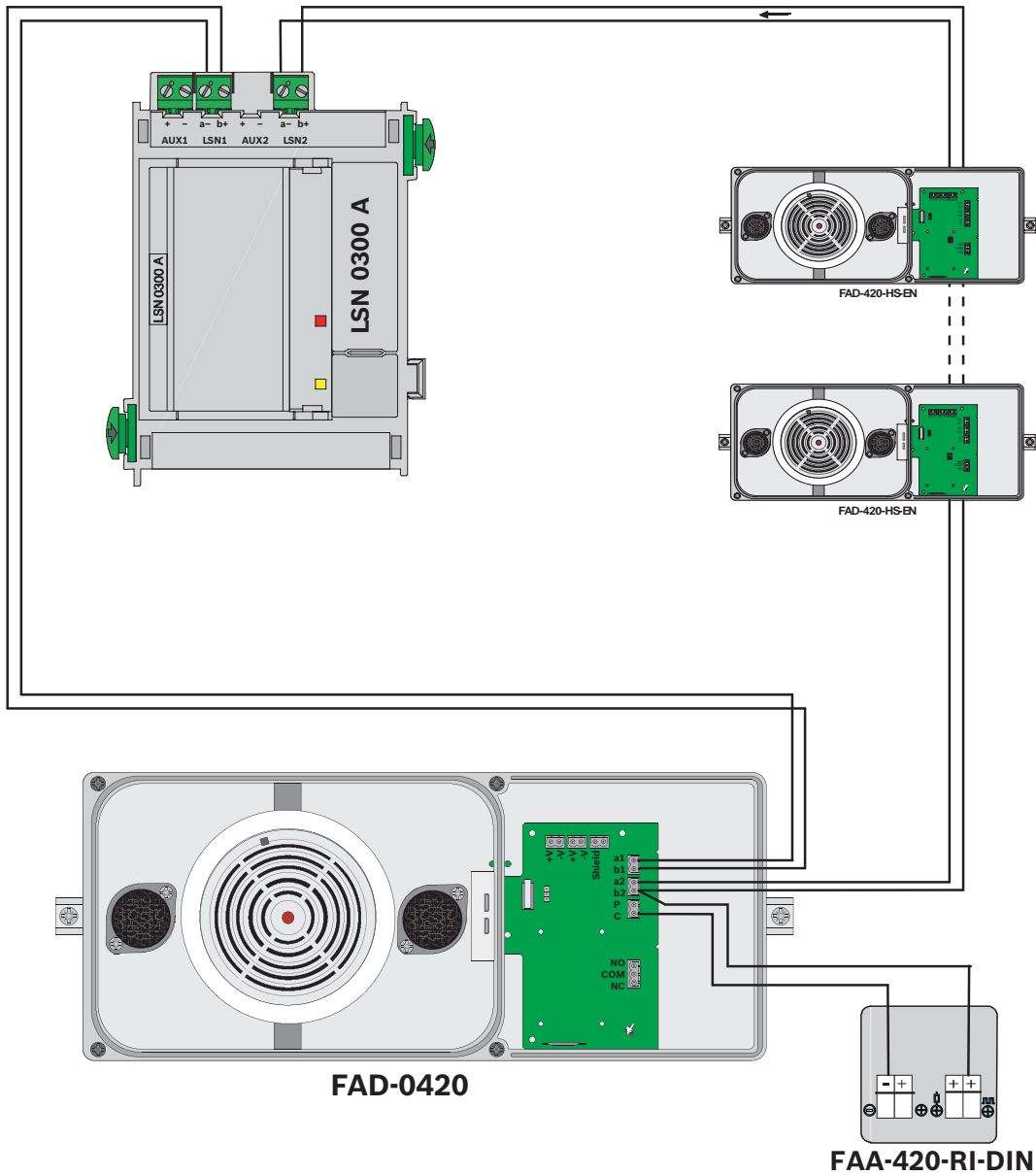


FLM-420-RLV8-S



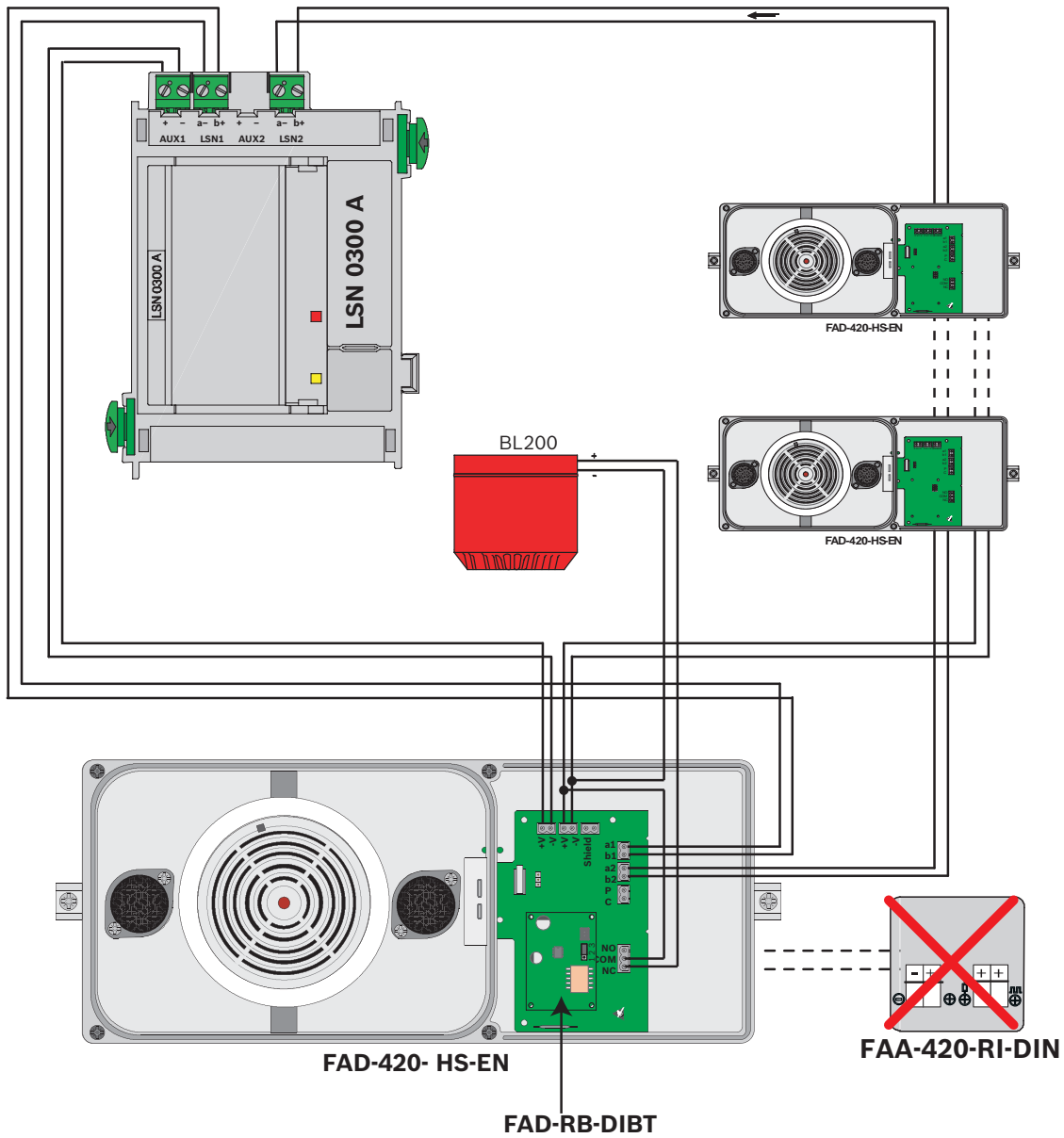


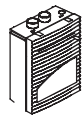
FAD-0420



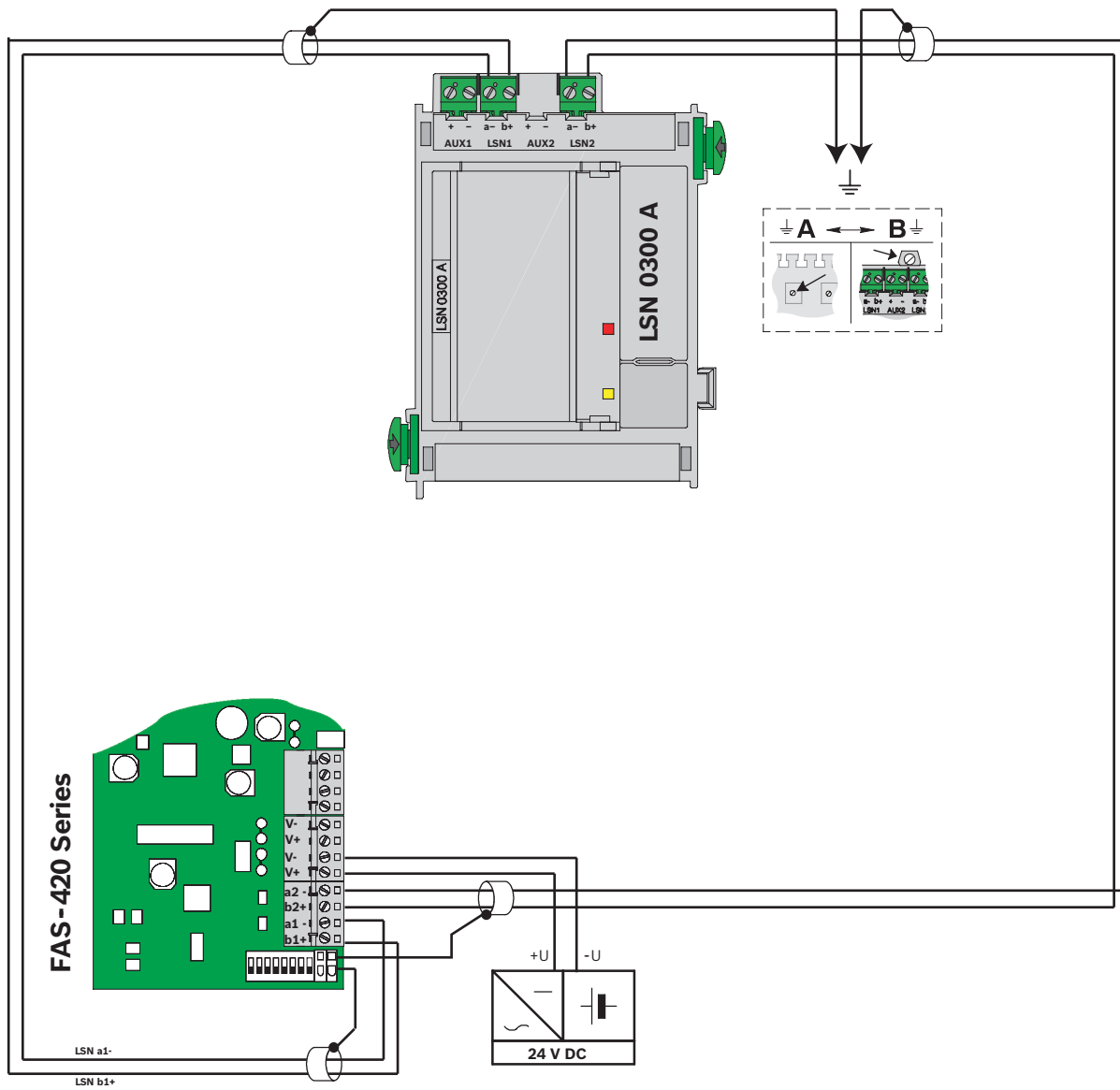


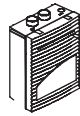
FAD-420-HS-EN



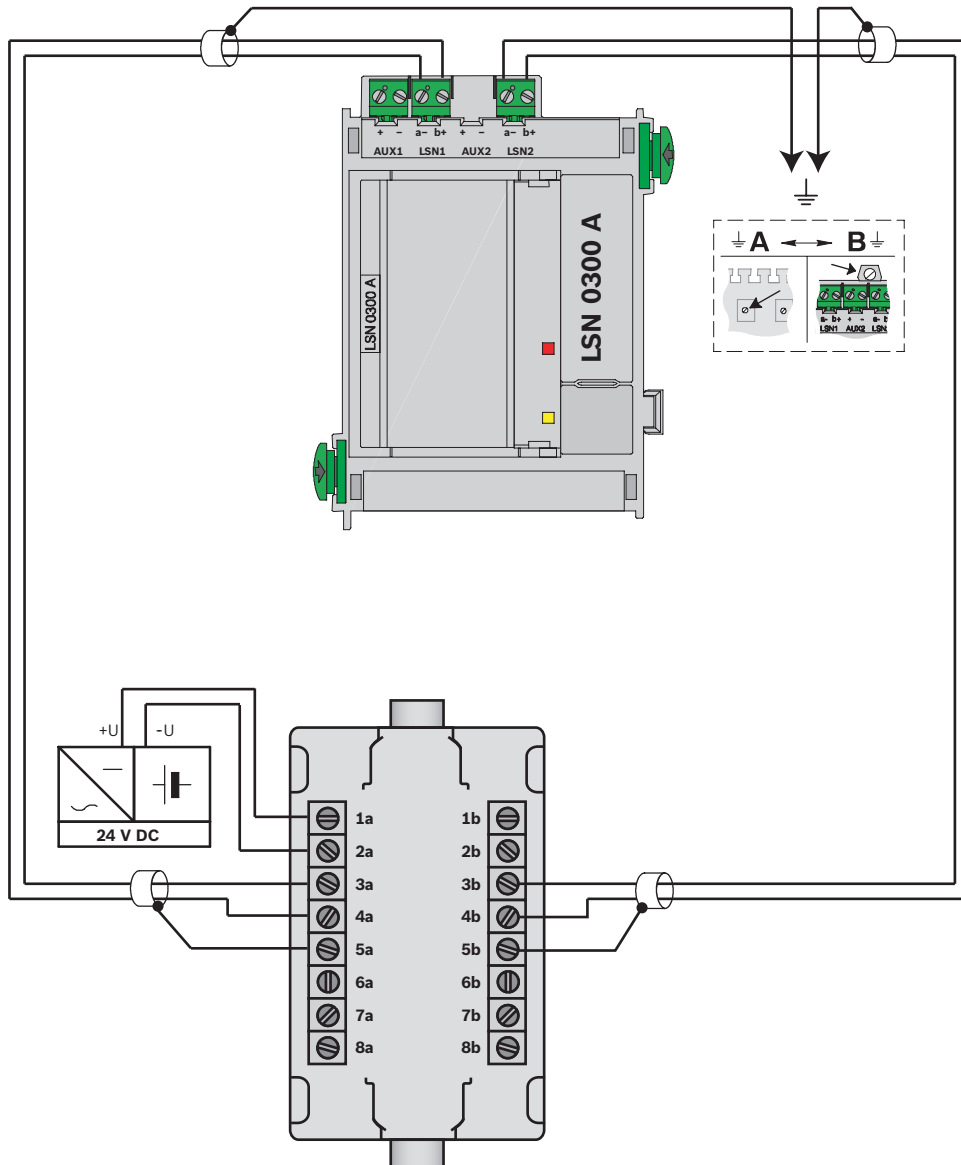


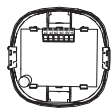
FAS-420 Series



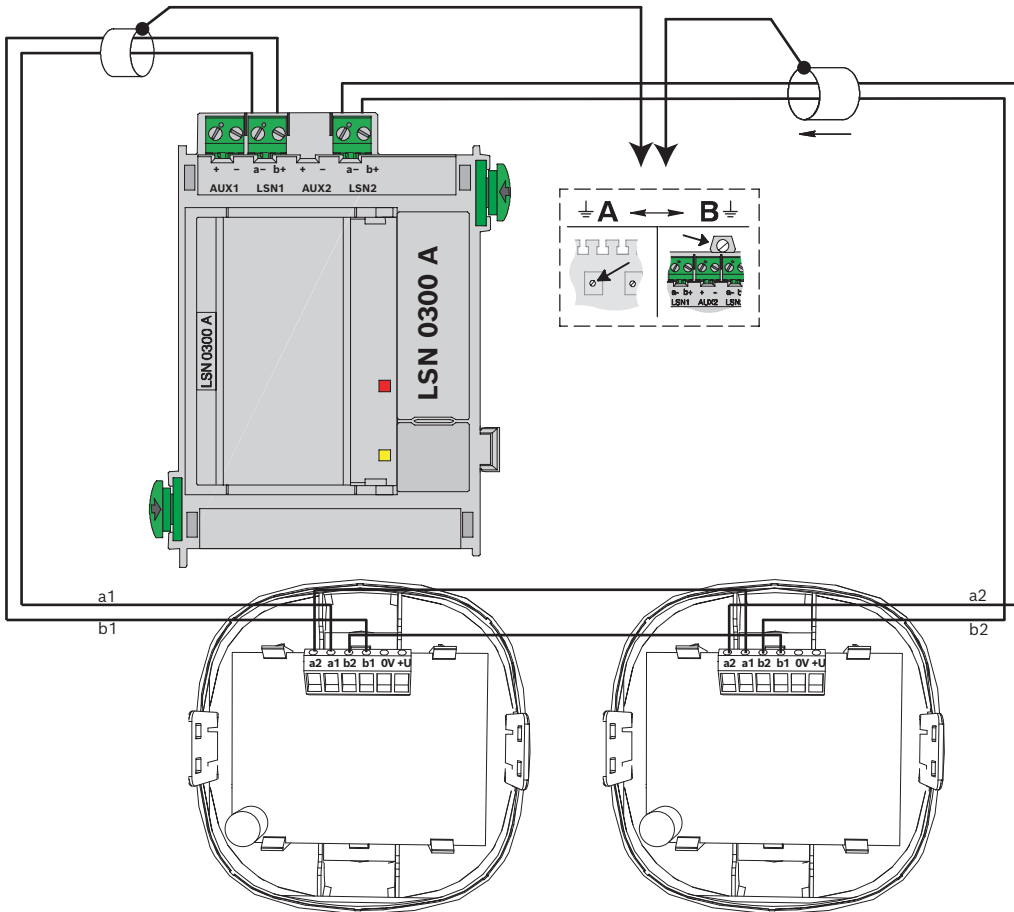
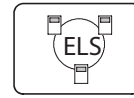


FAS-420-TM Series





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

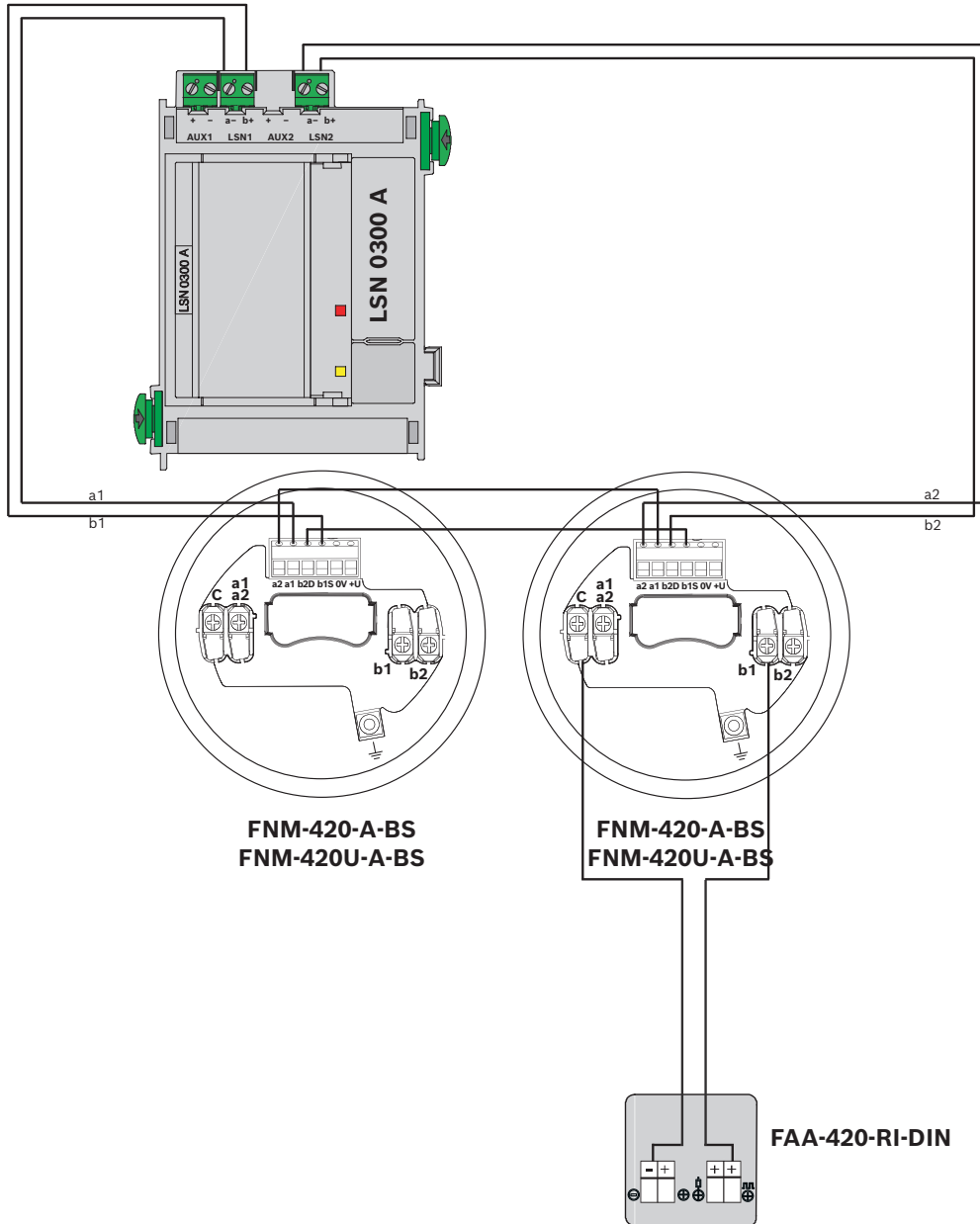
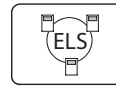


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

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



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



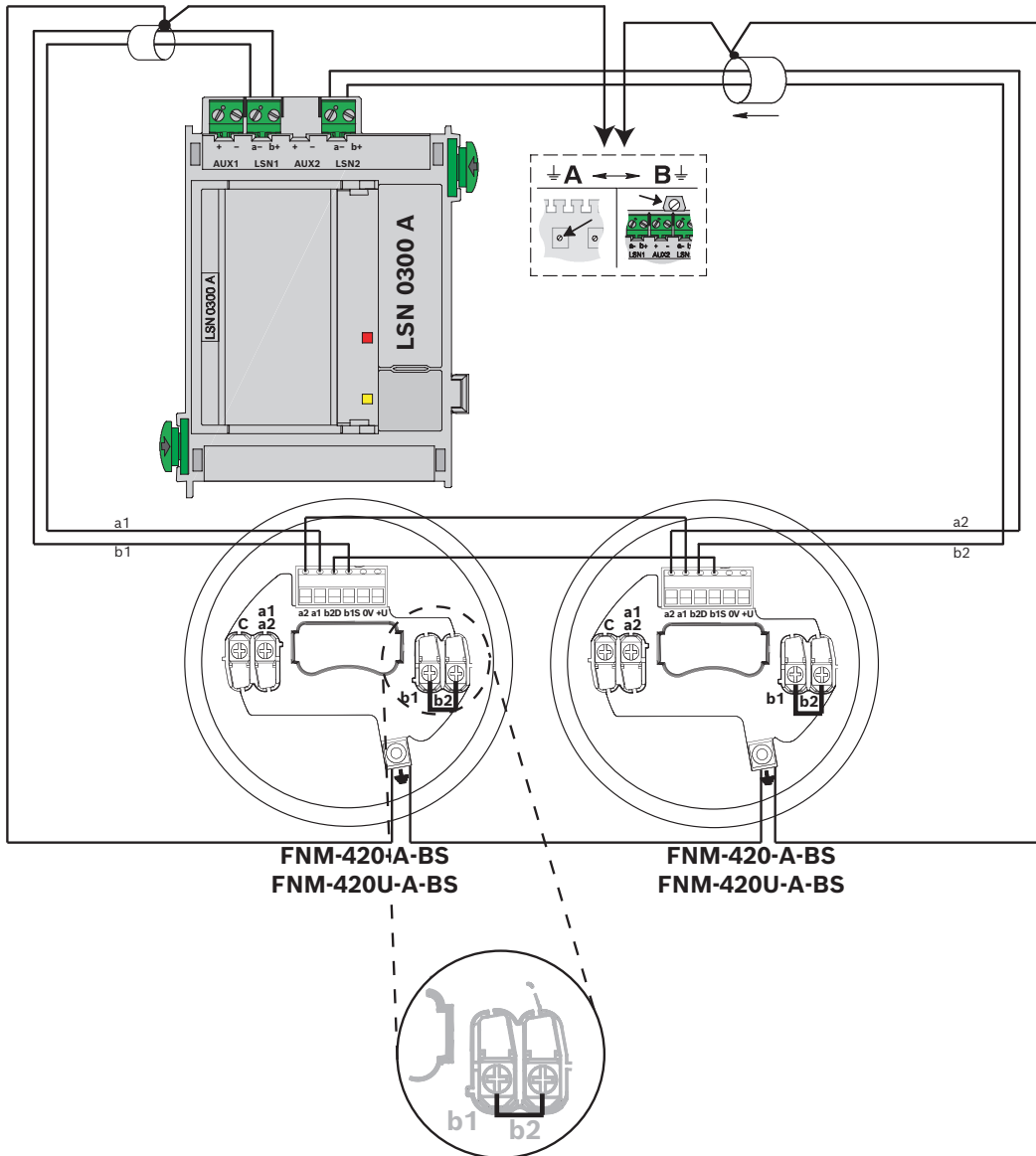
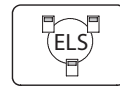
FNM-420-A-BS
FNM-420U-A-BS

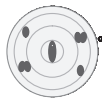
FNM-420-A-BS
FNM-420U-A-BS

FAA-420-RI-DIN

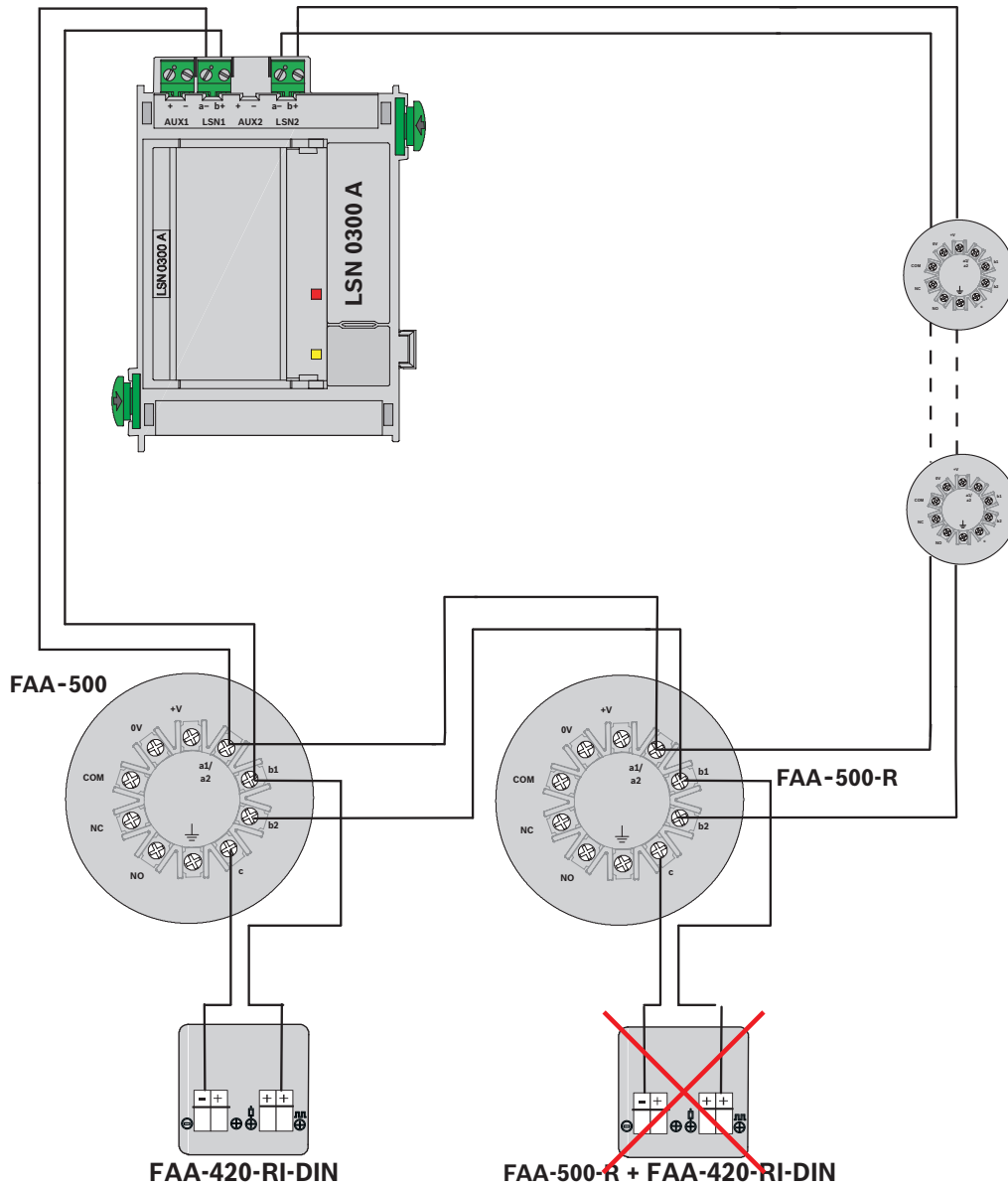
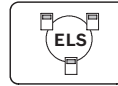


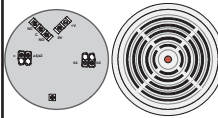
FNM-420-A-BS
FNM-420U-A-BS



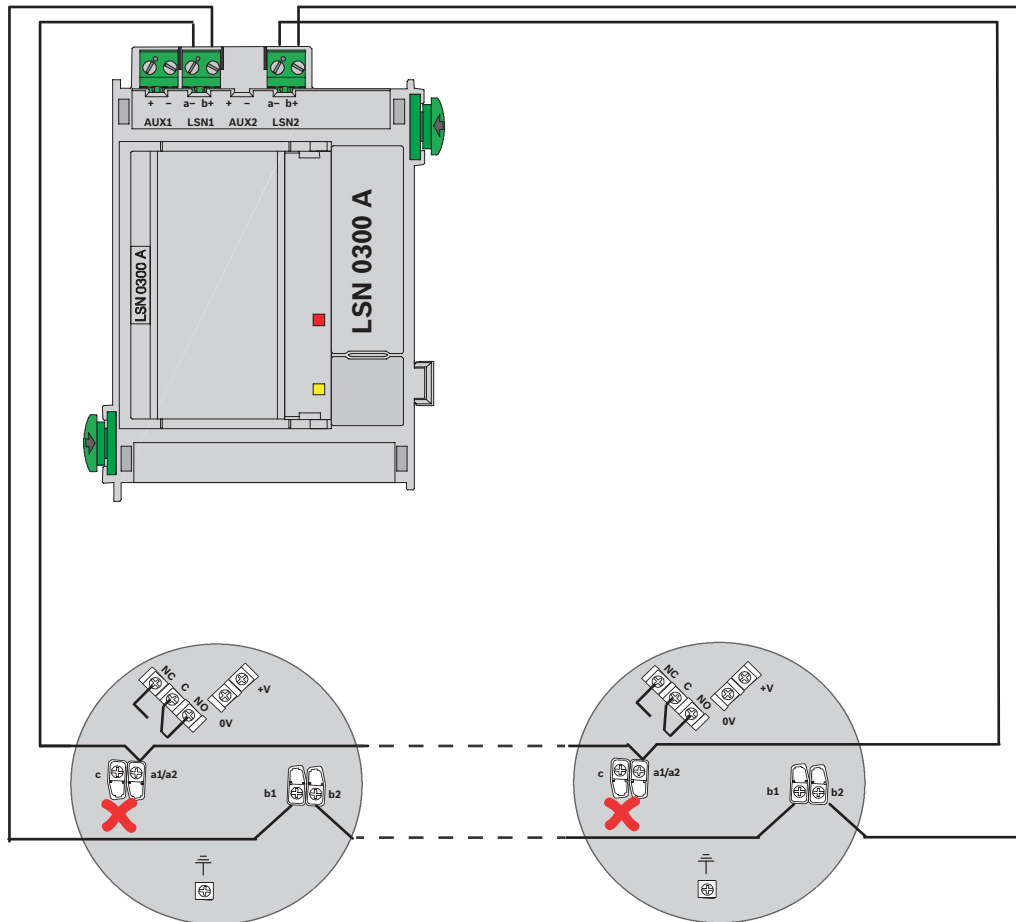
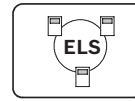


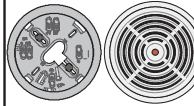
FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P



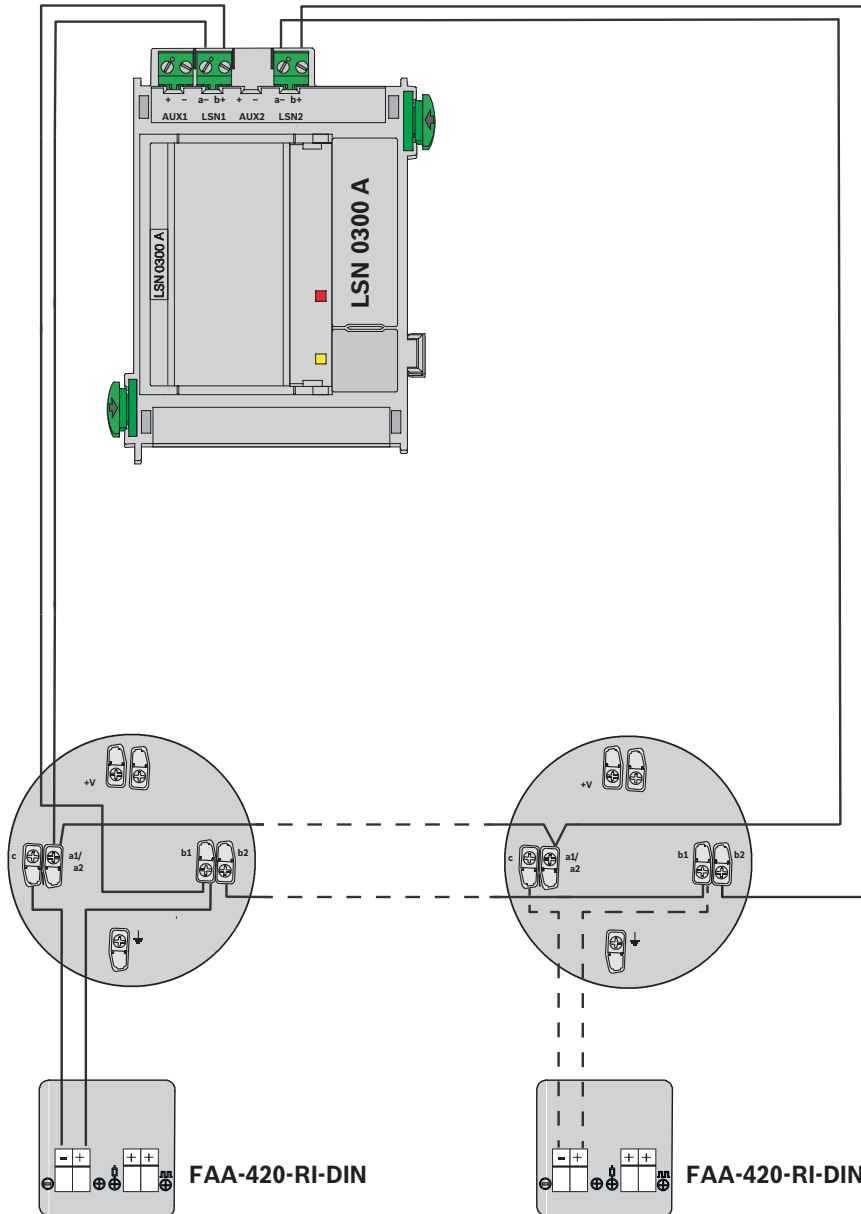
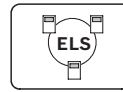


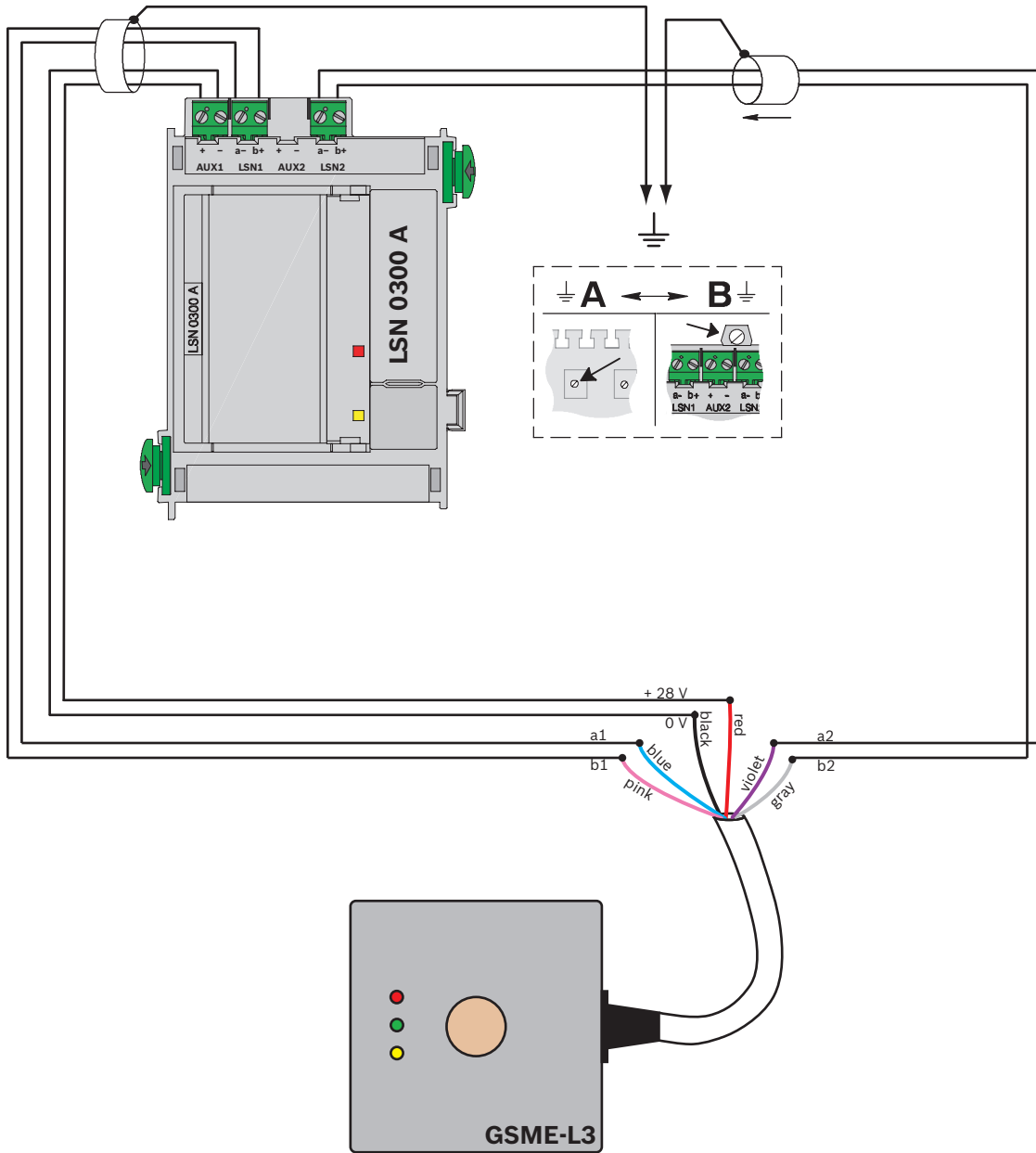
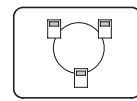
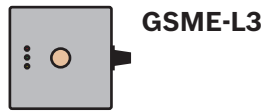
FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R

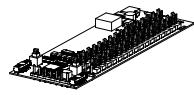




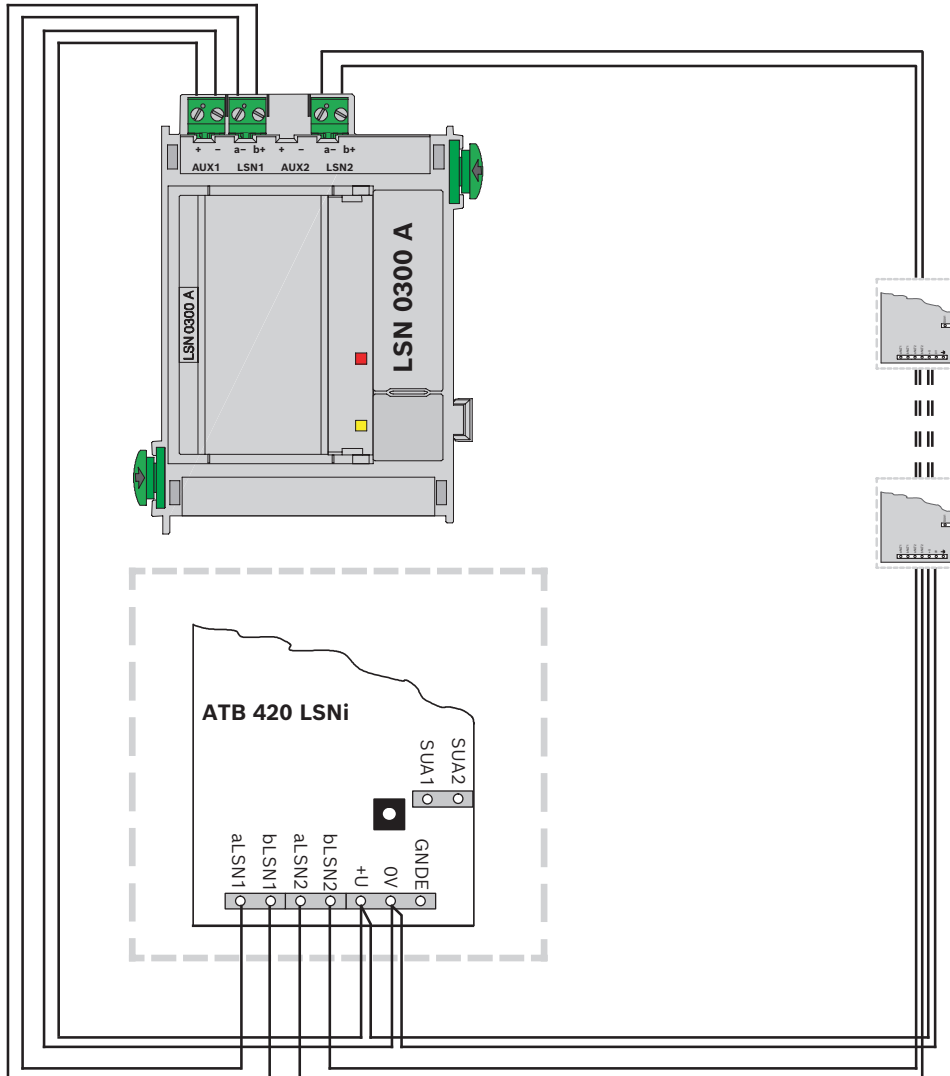
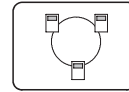
MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R





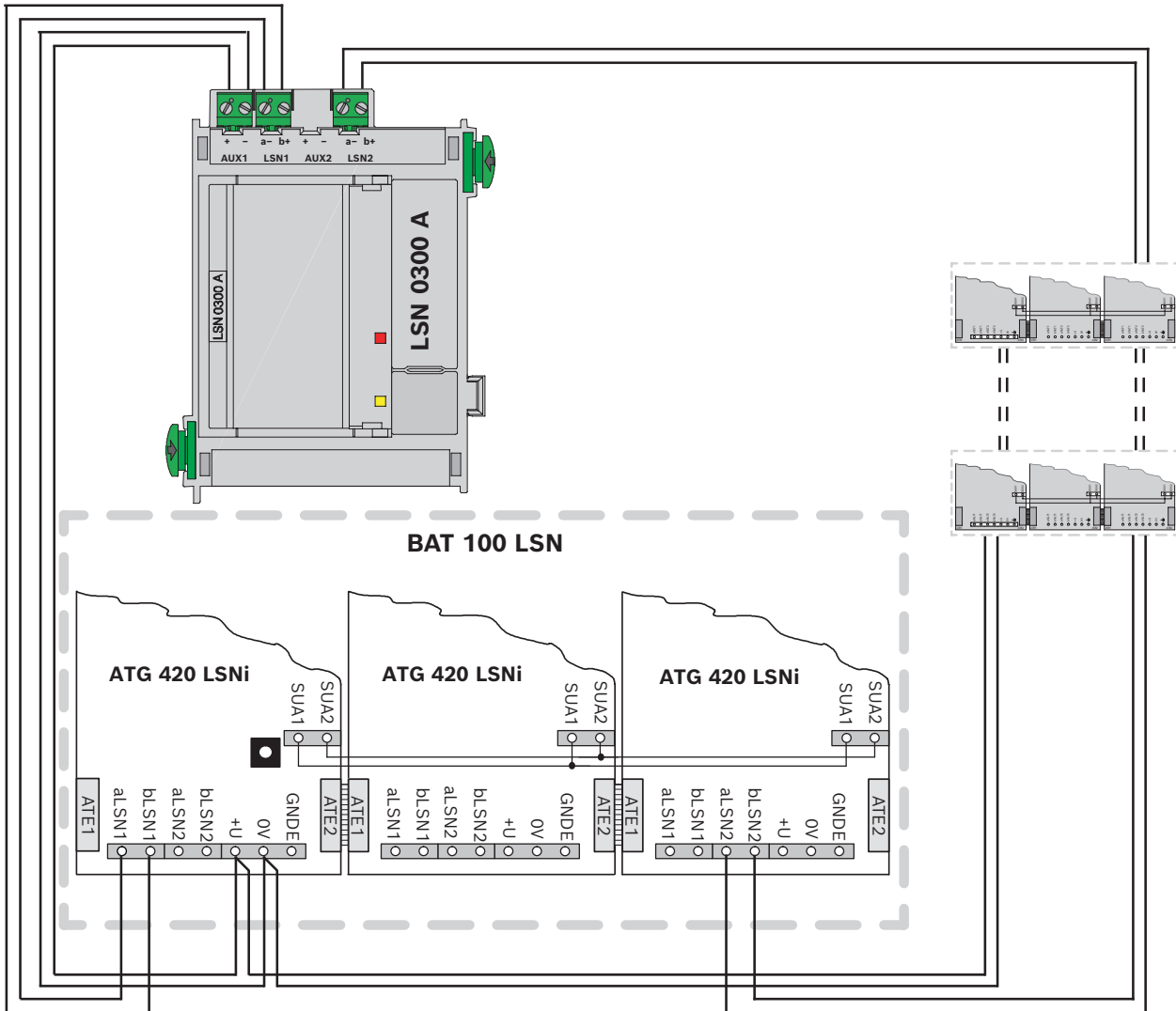
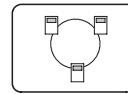


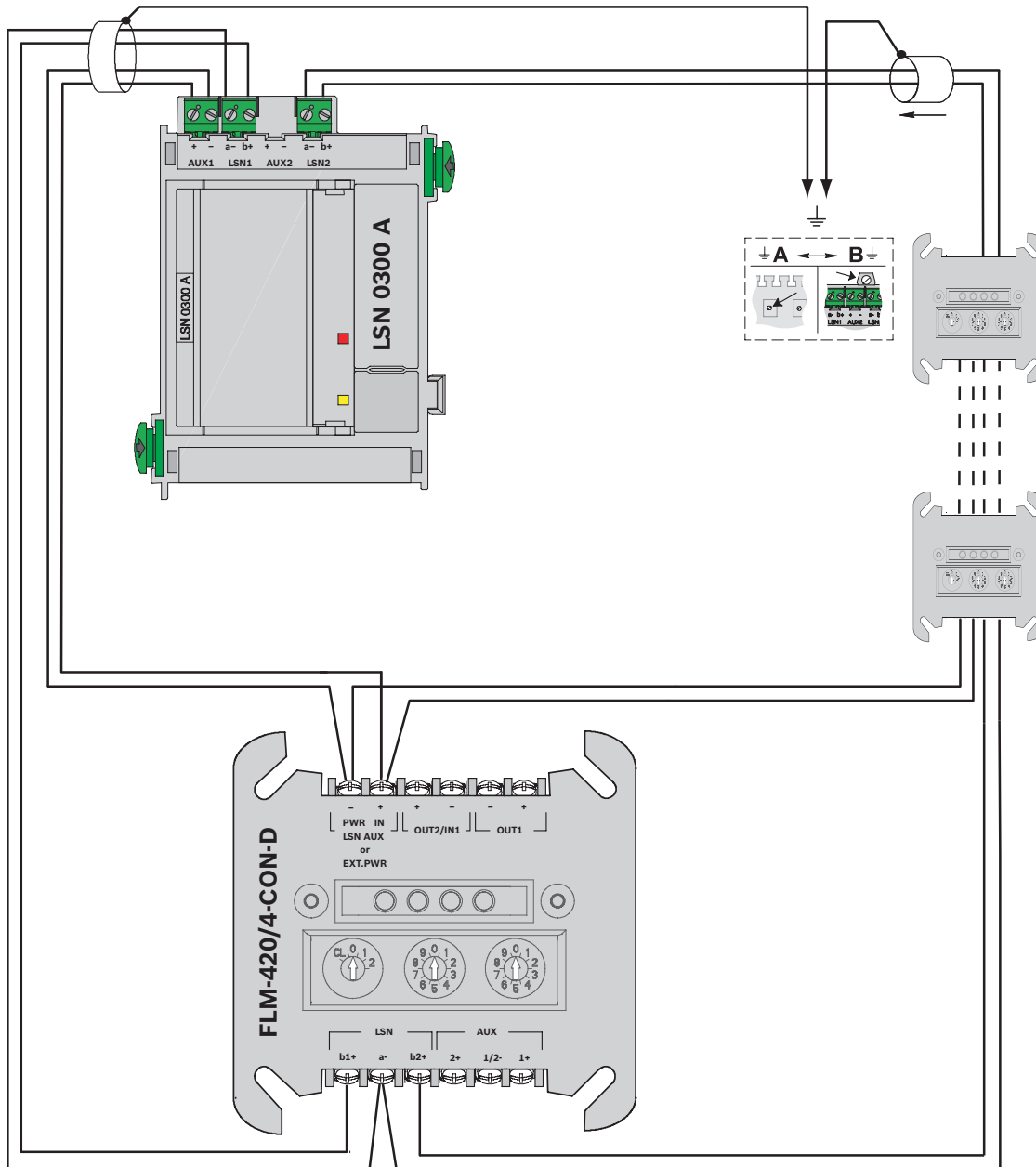
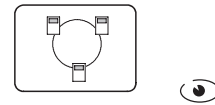
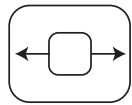
ATB 420 LSNi





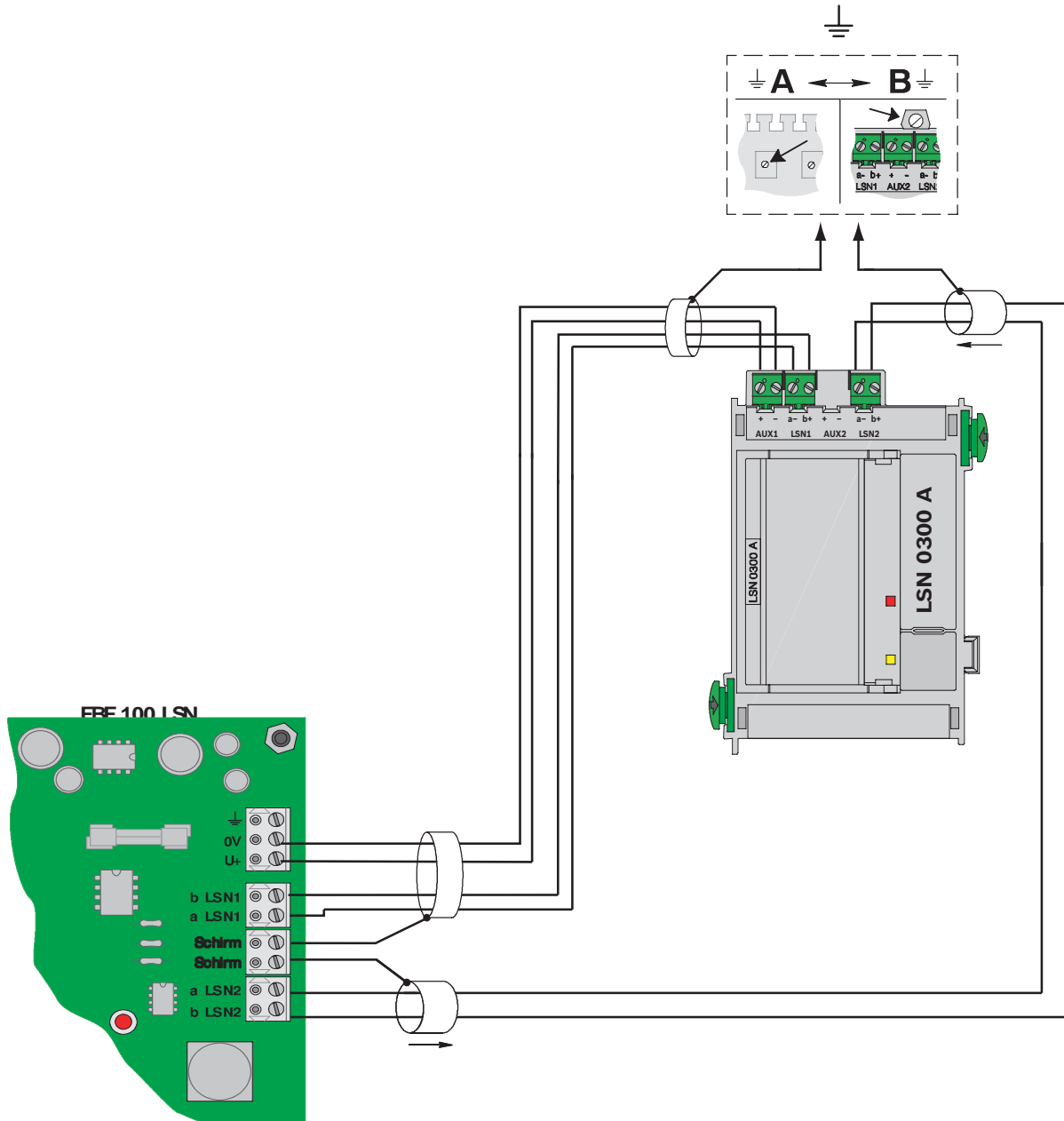
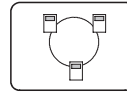
BAT 100 LSN
ATG 420 LSNi

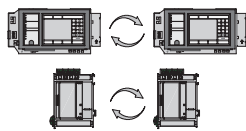




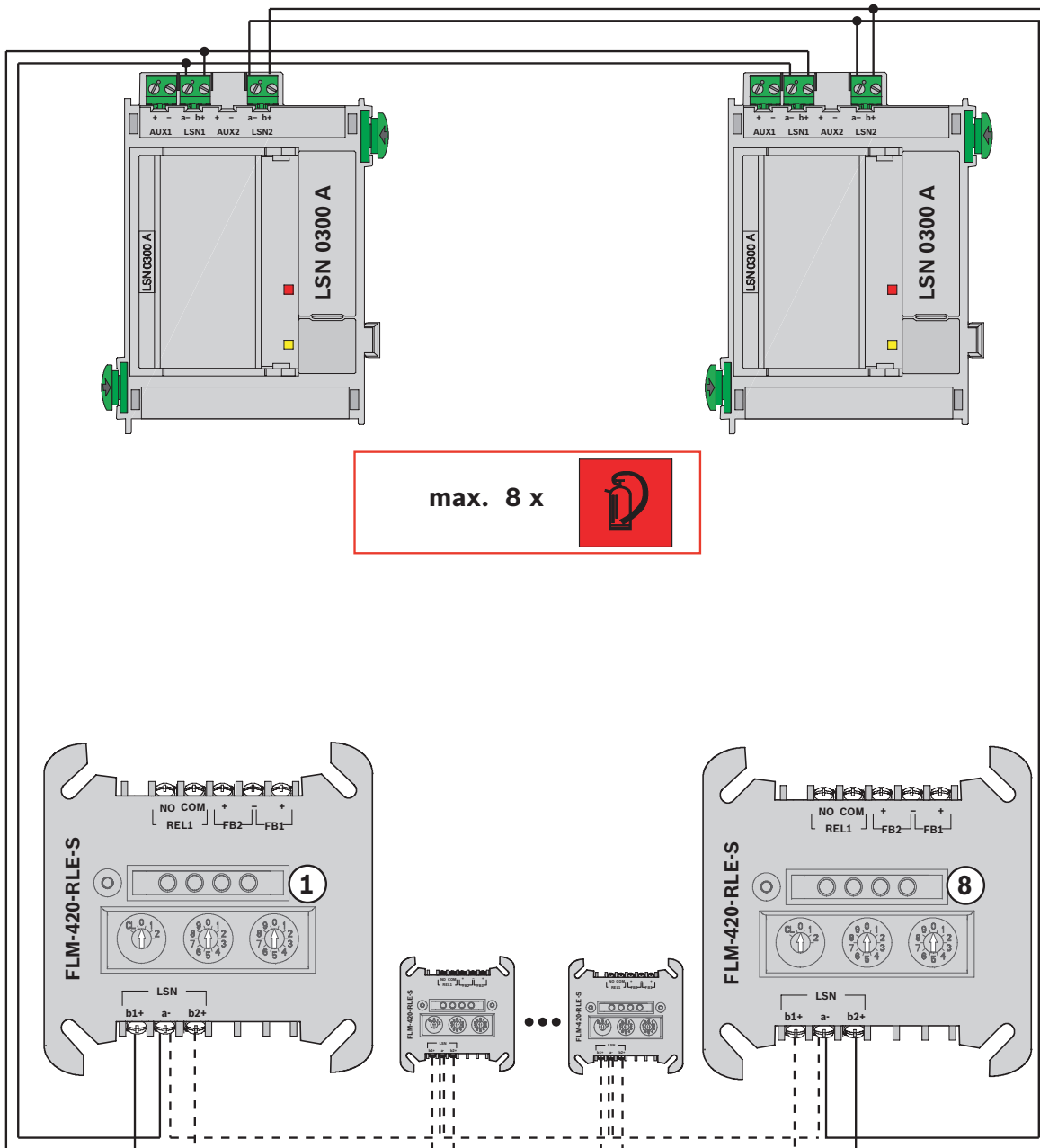
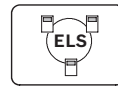


FBF 100 LSN



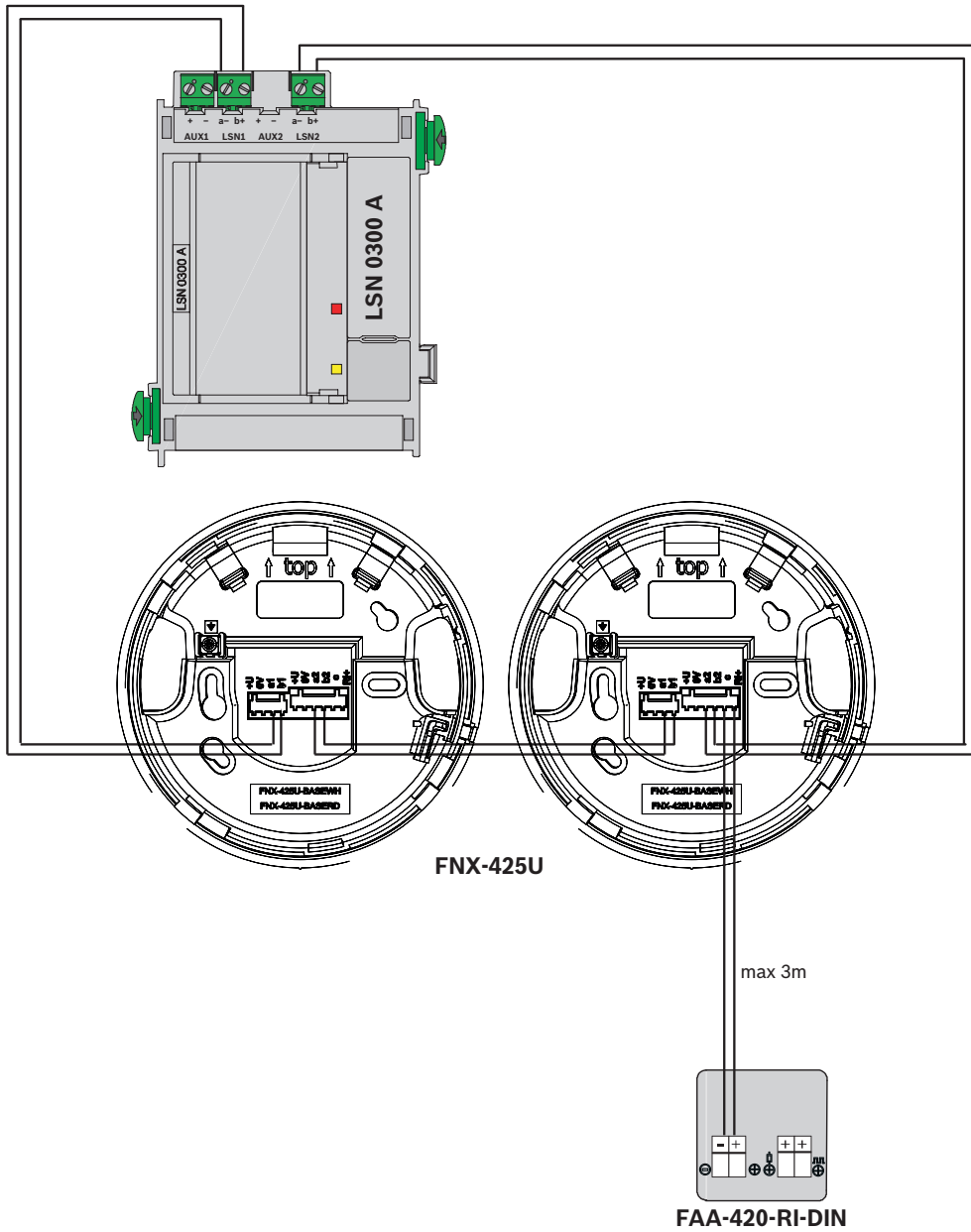
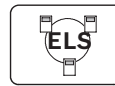


FLM-420-RLE-S





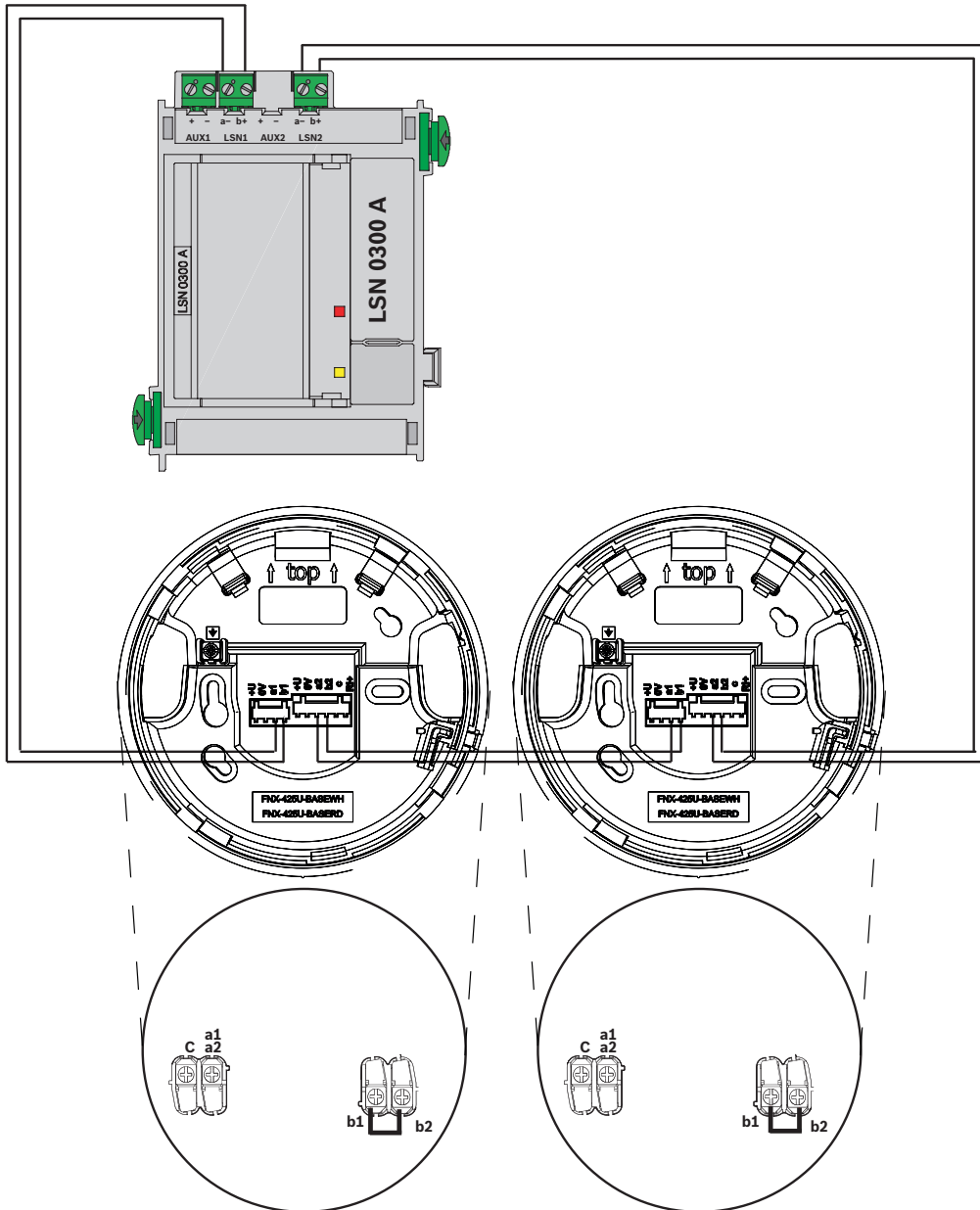
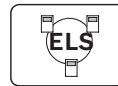
FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD

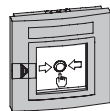
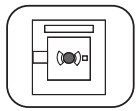




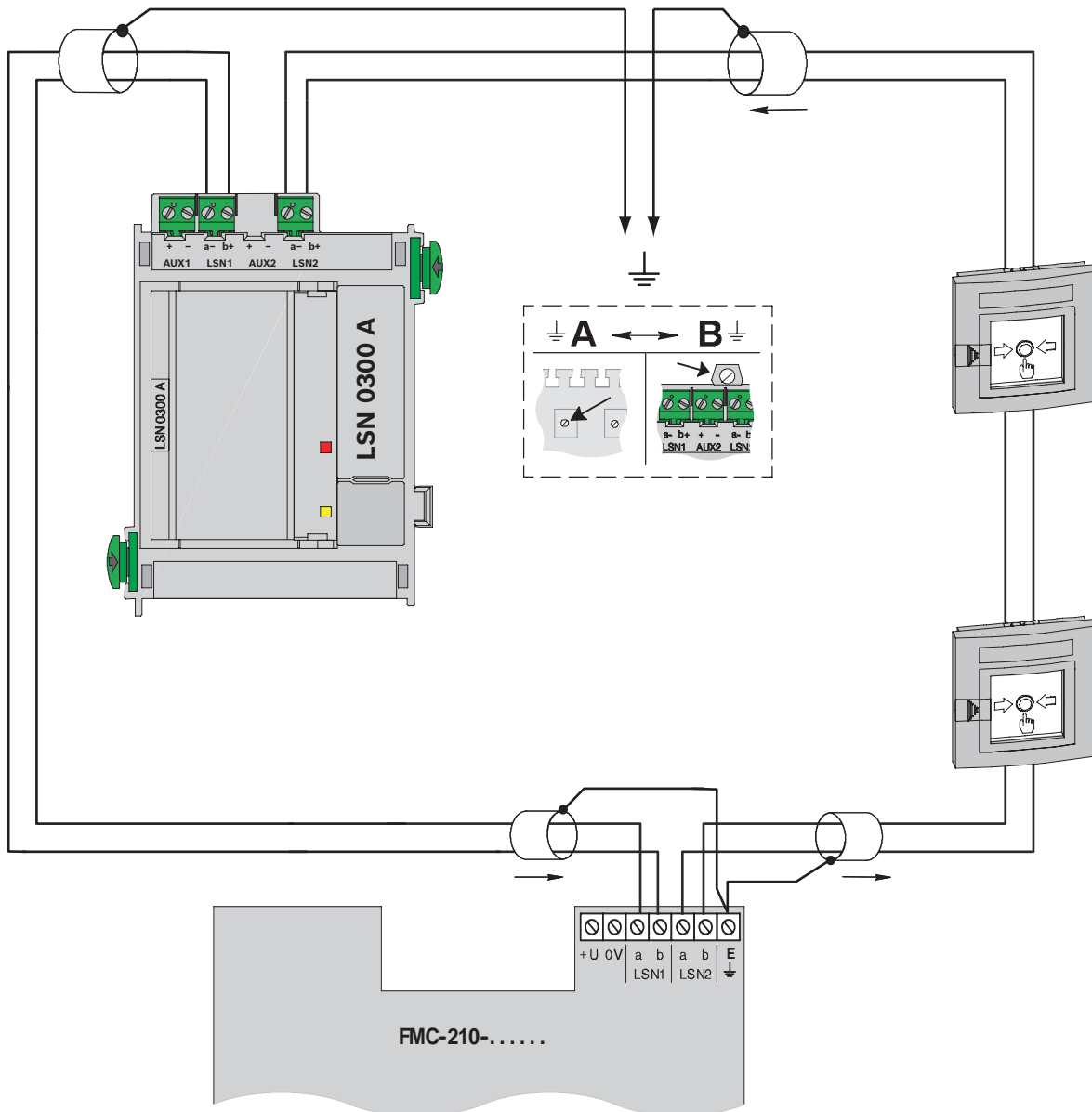
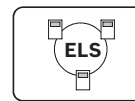
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

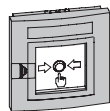
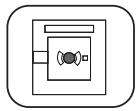
+ FNX-425U-COVWH
 FNX-425U-COVRD



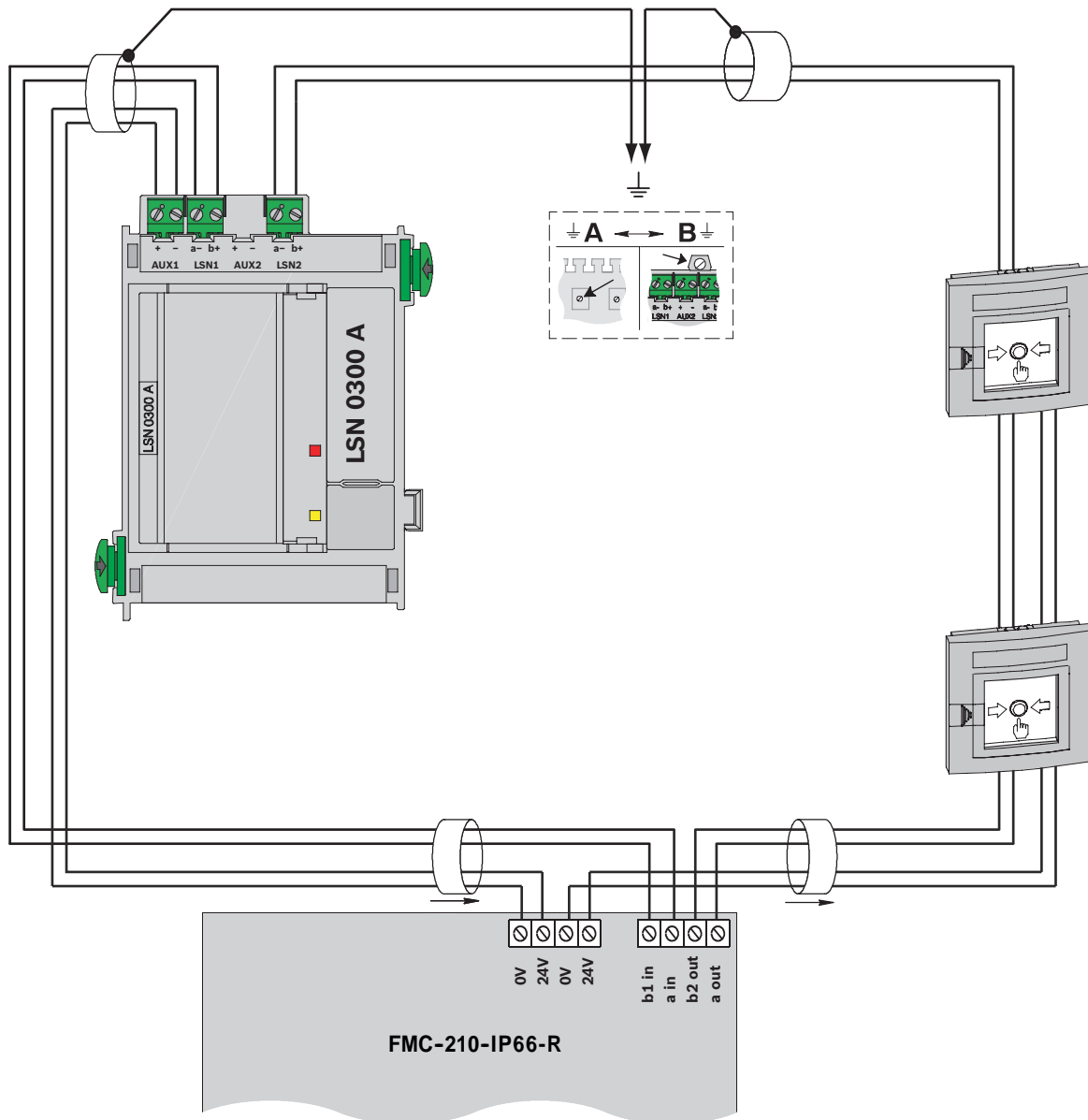
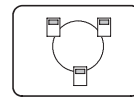


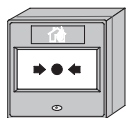
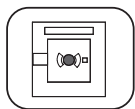
FMC-210...



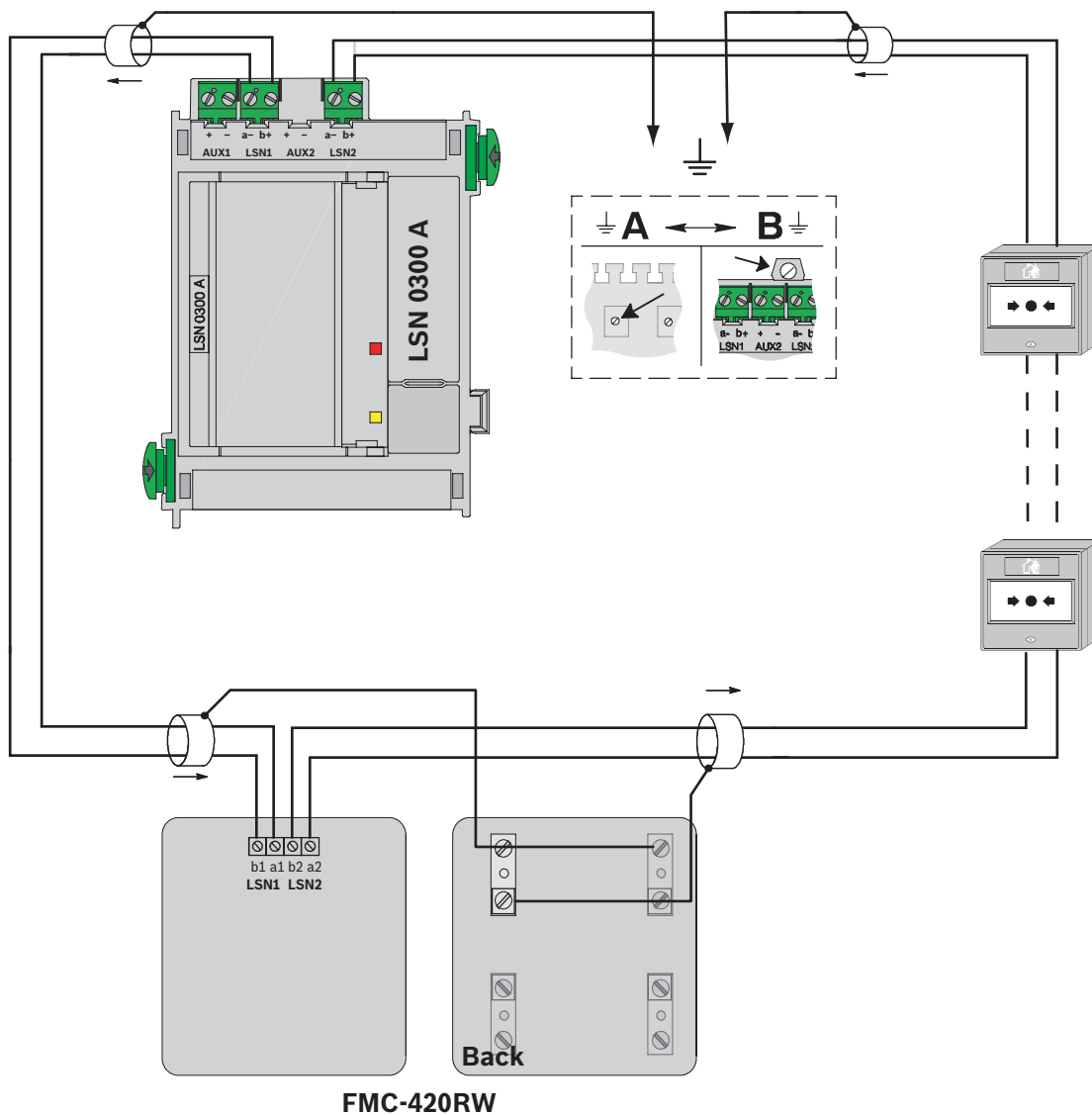
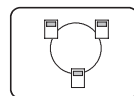


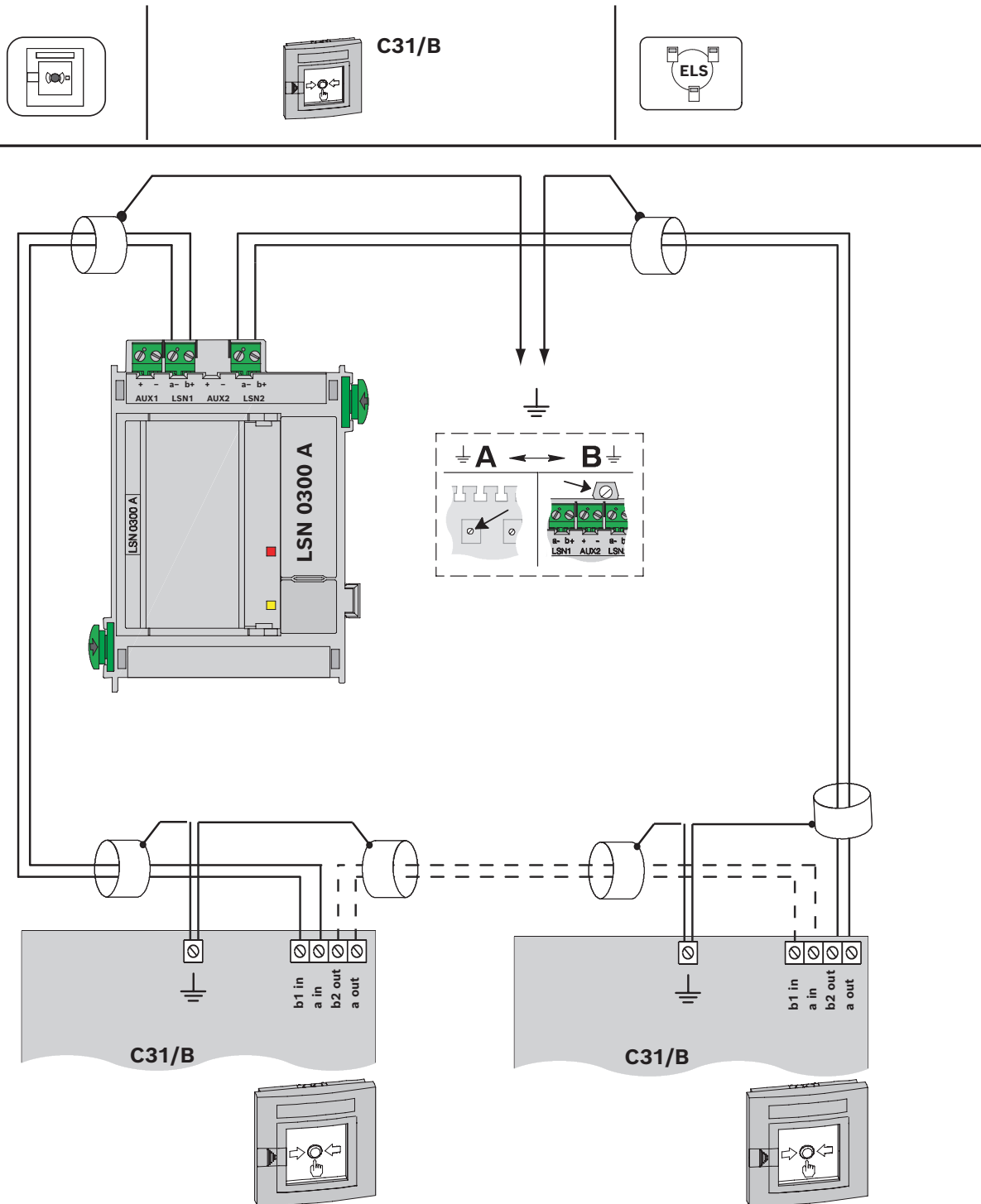
FMC-210-IP66-R

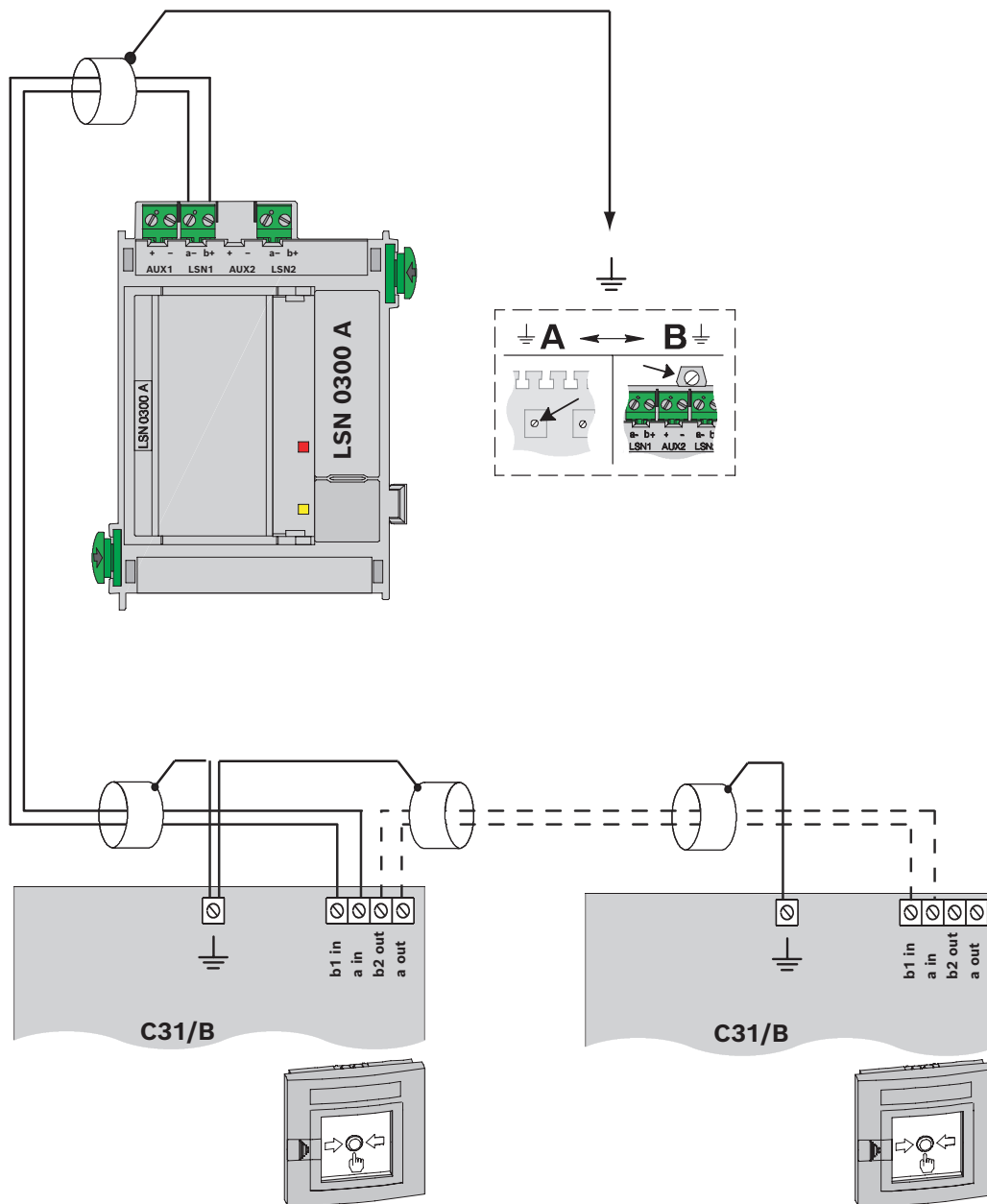
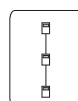
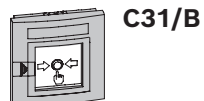
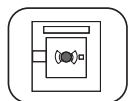


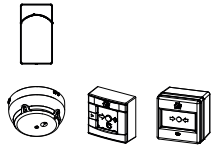


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD



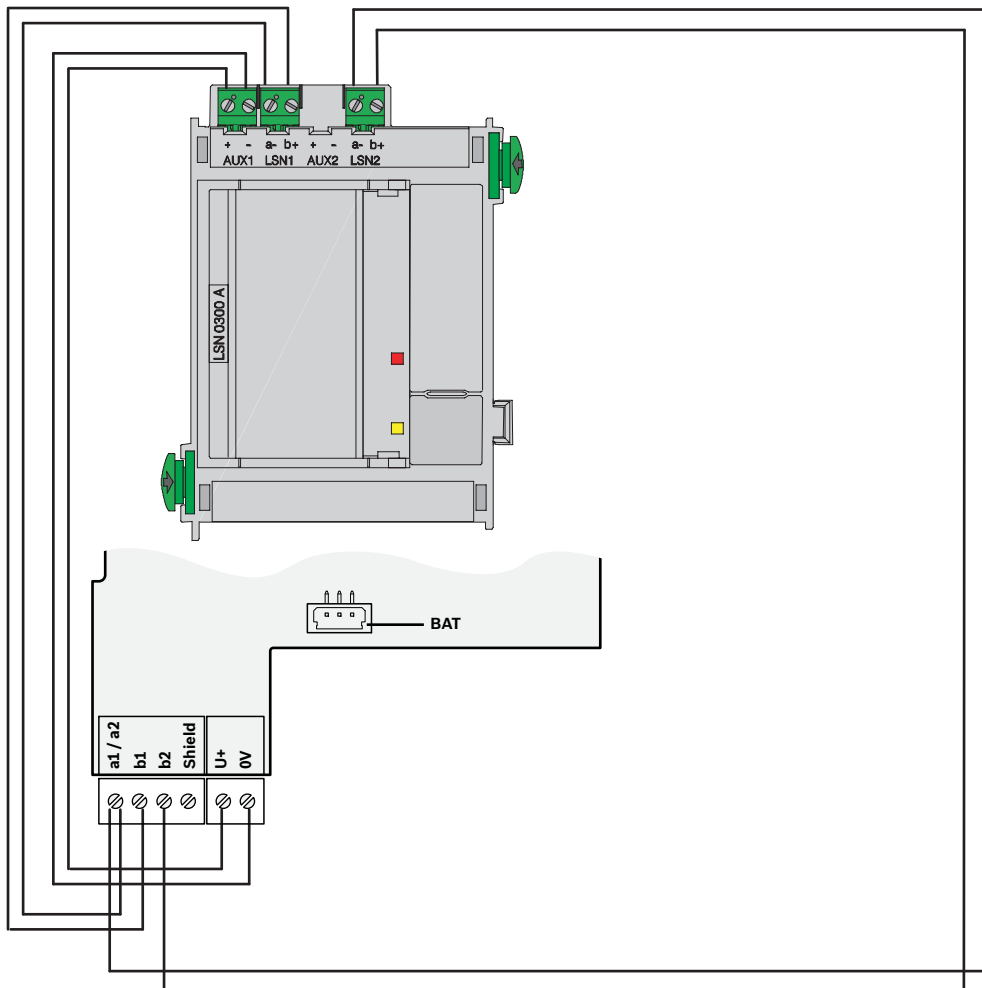
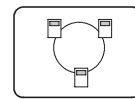






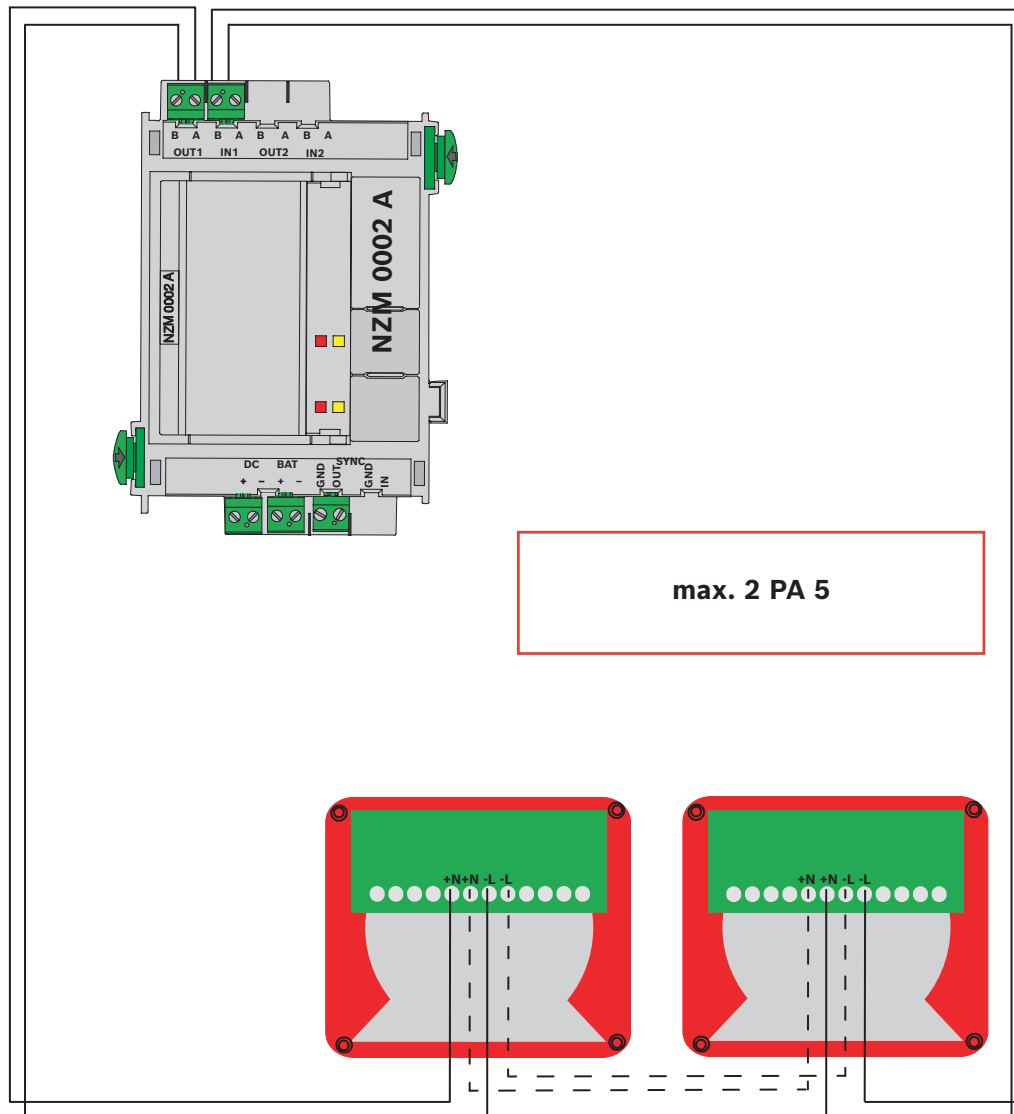
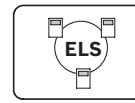
FWI-270

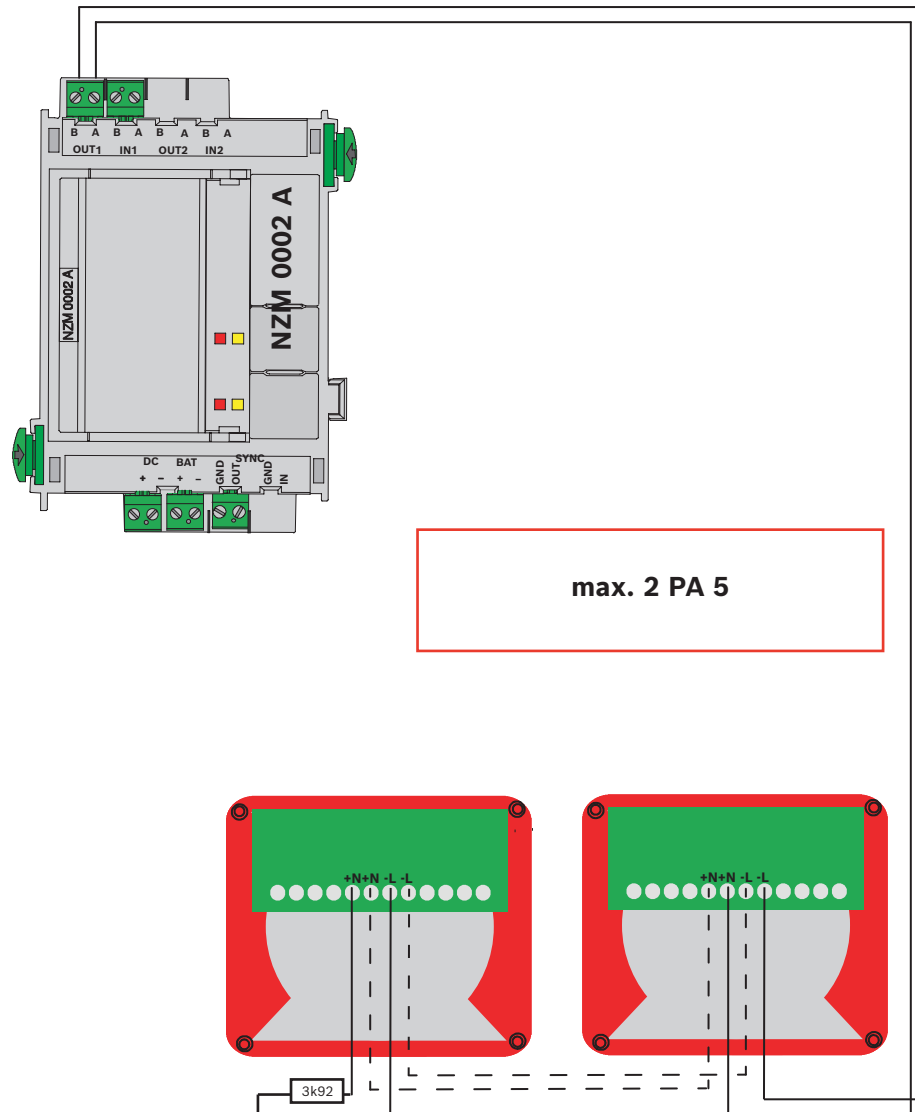
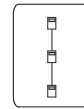
FDOOT271-O
FDM275-O
FDM273-O

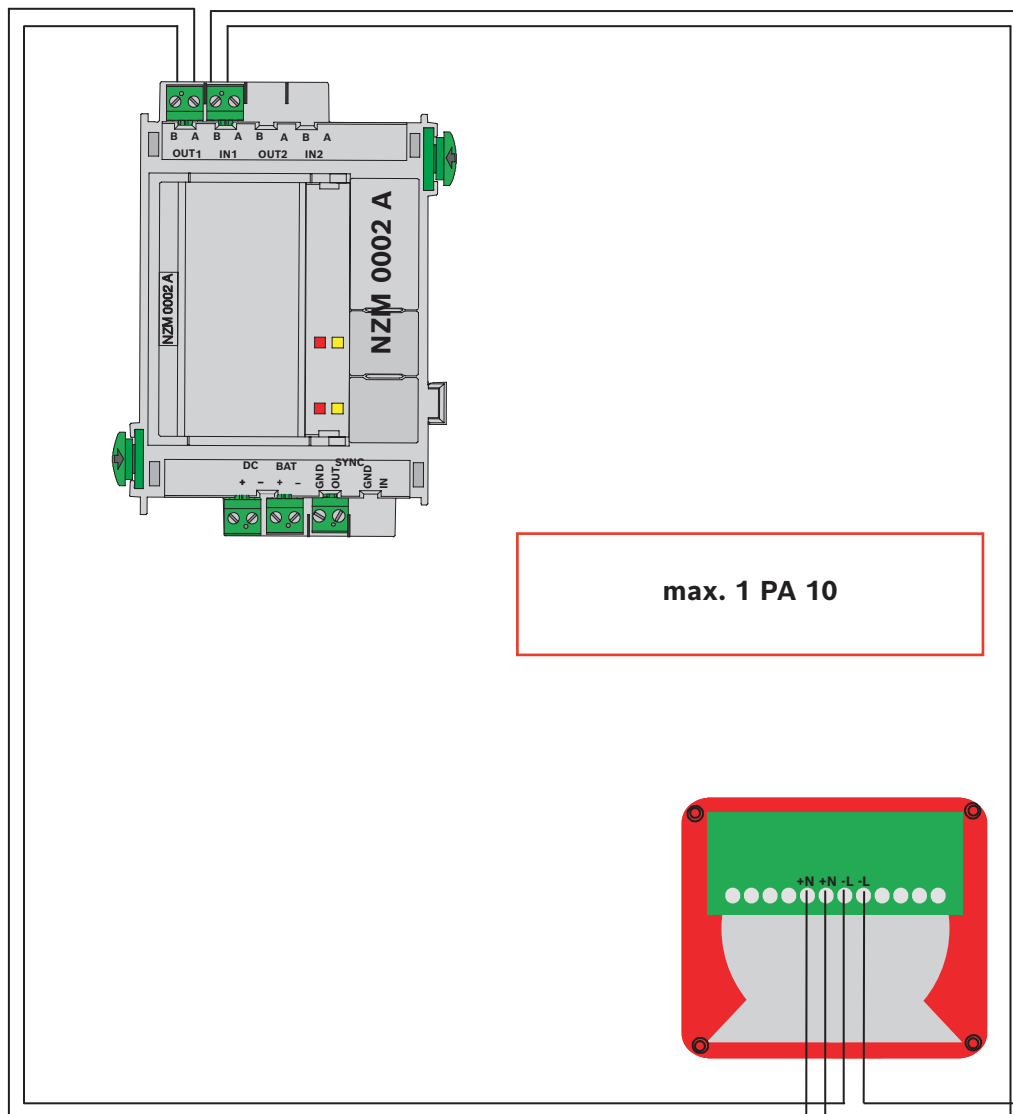
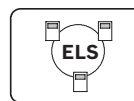


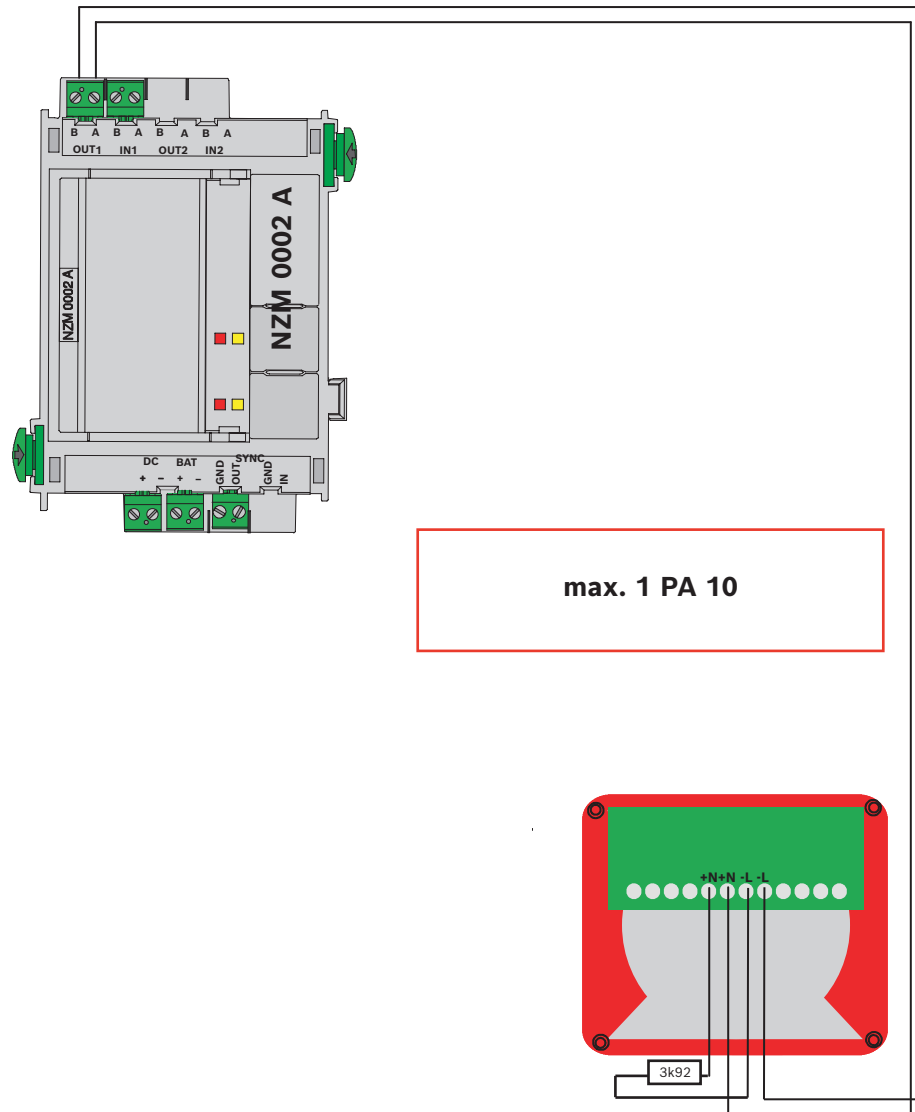
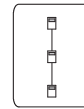
2.4.5

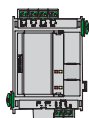
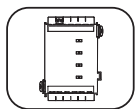
NZM 0002 A



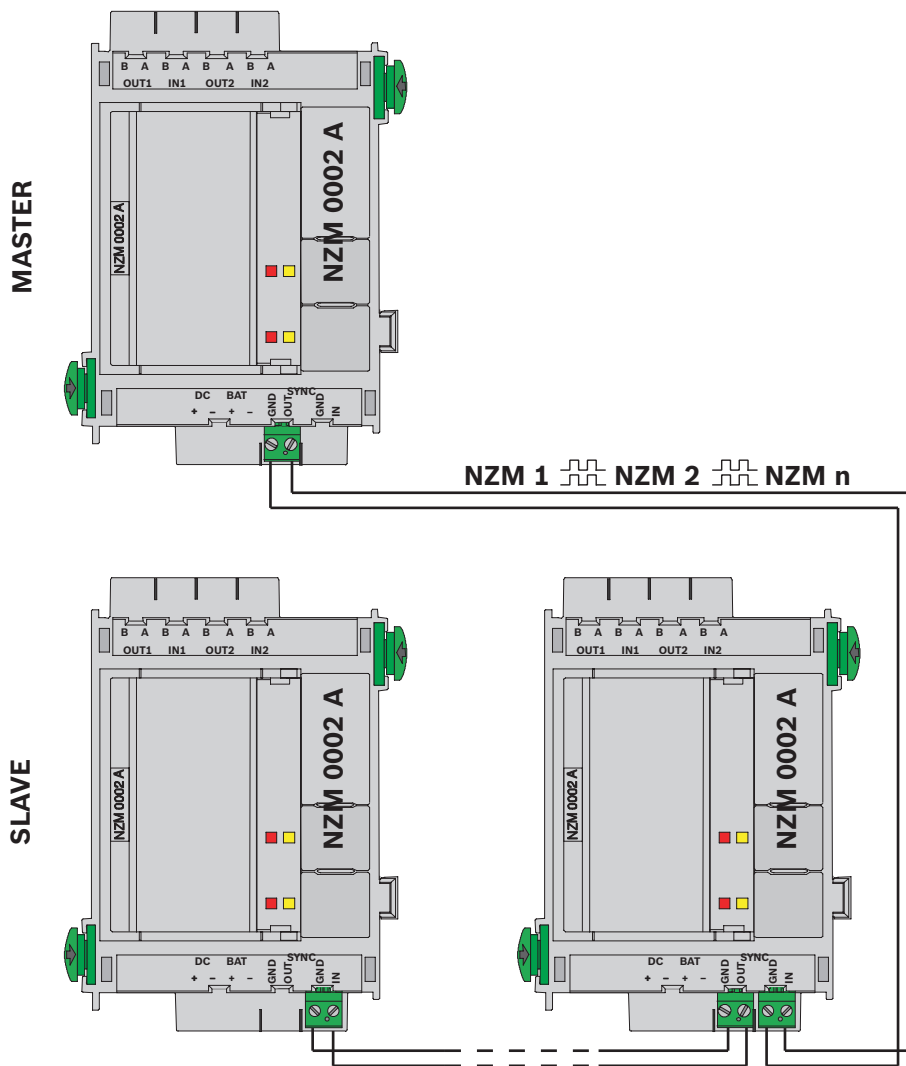


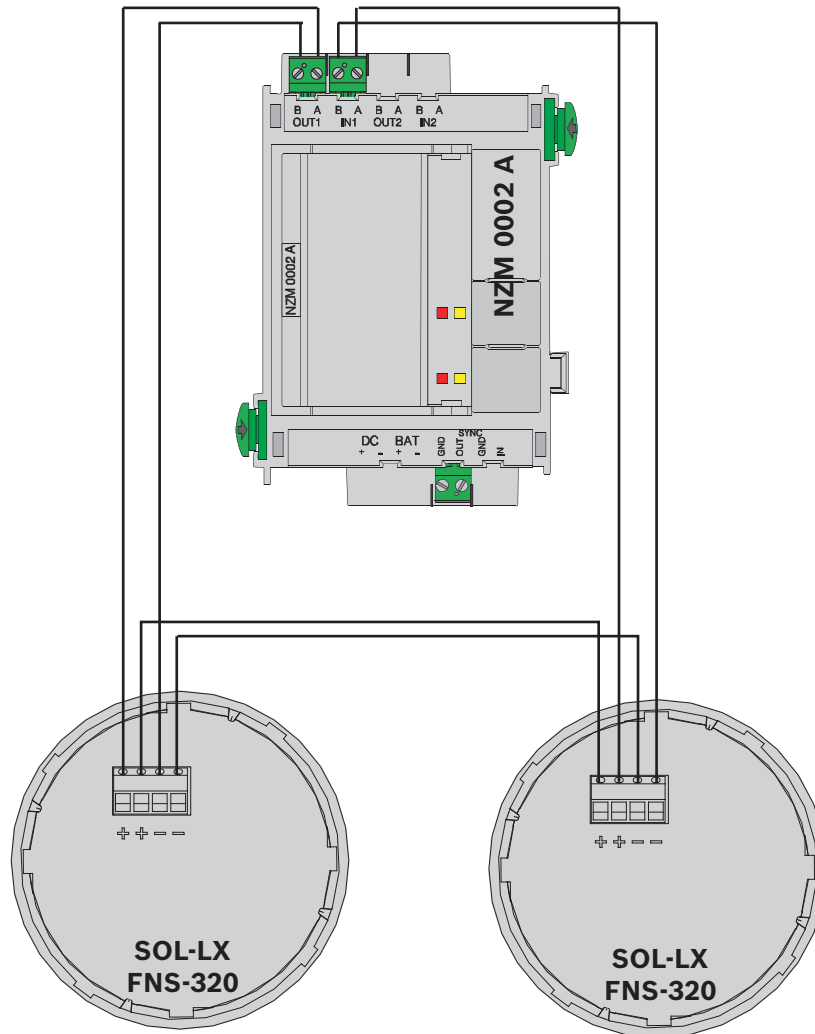
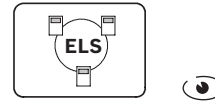


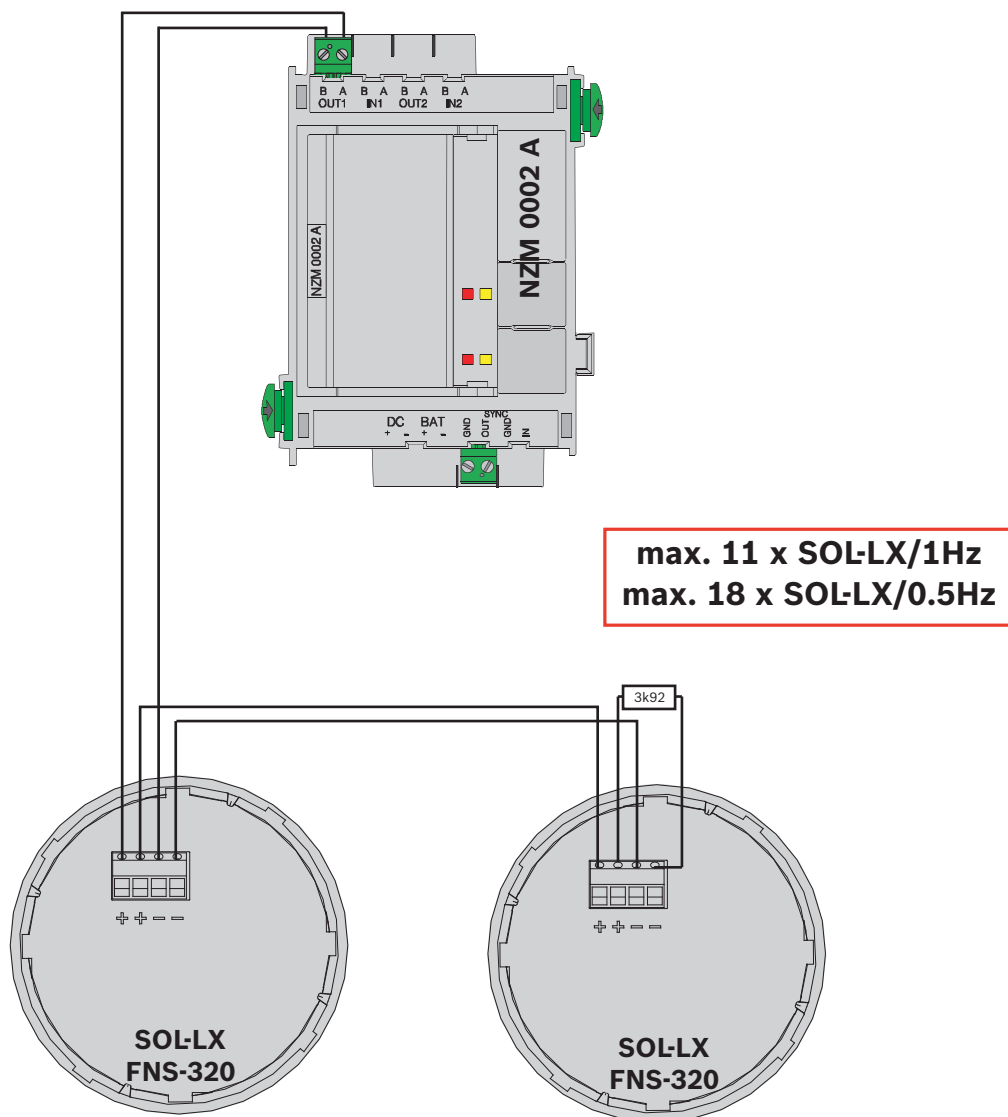
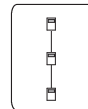


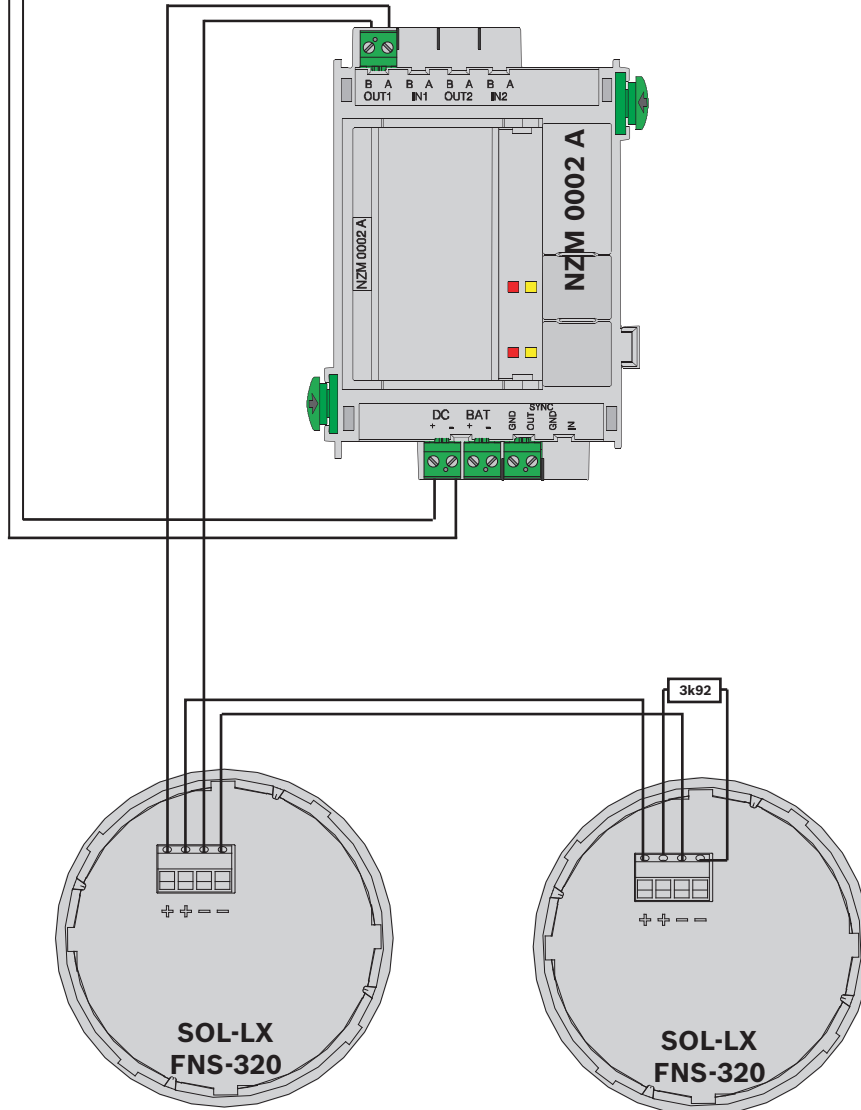
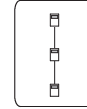


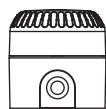
NZM 0002 A



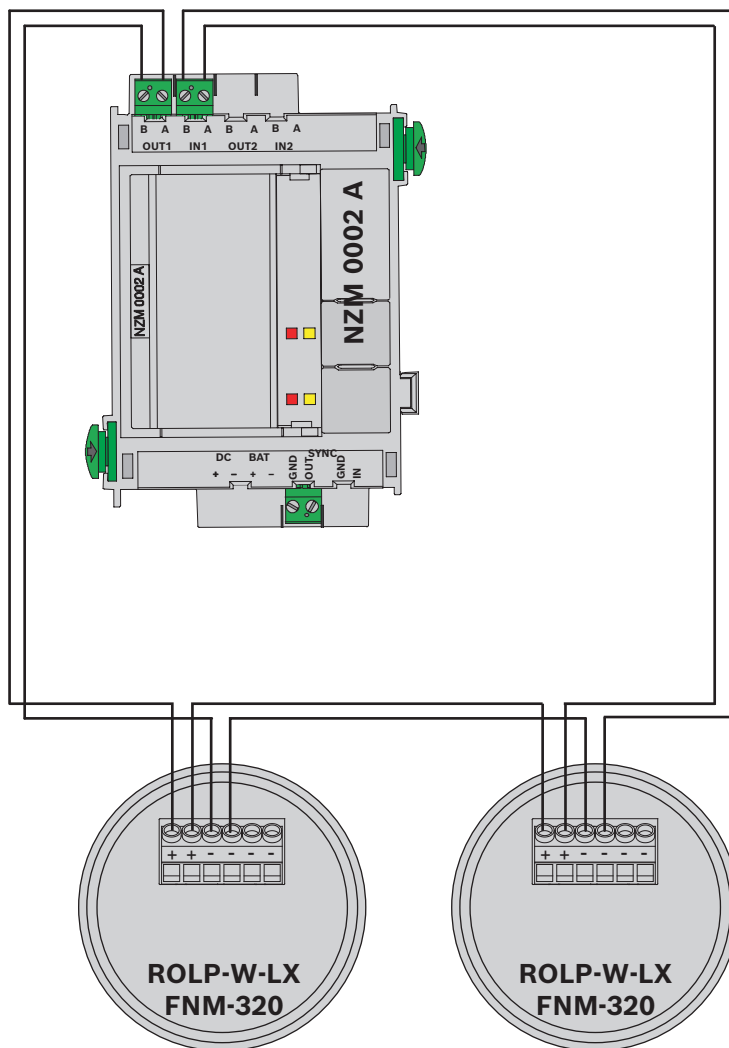
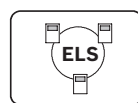


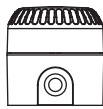




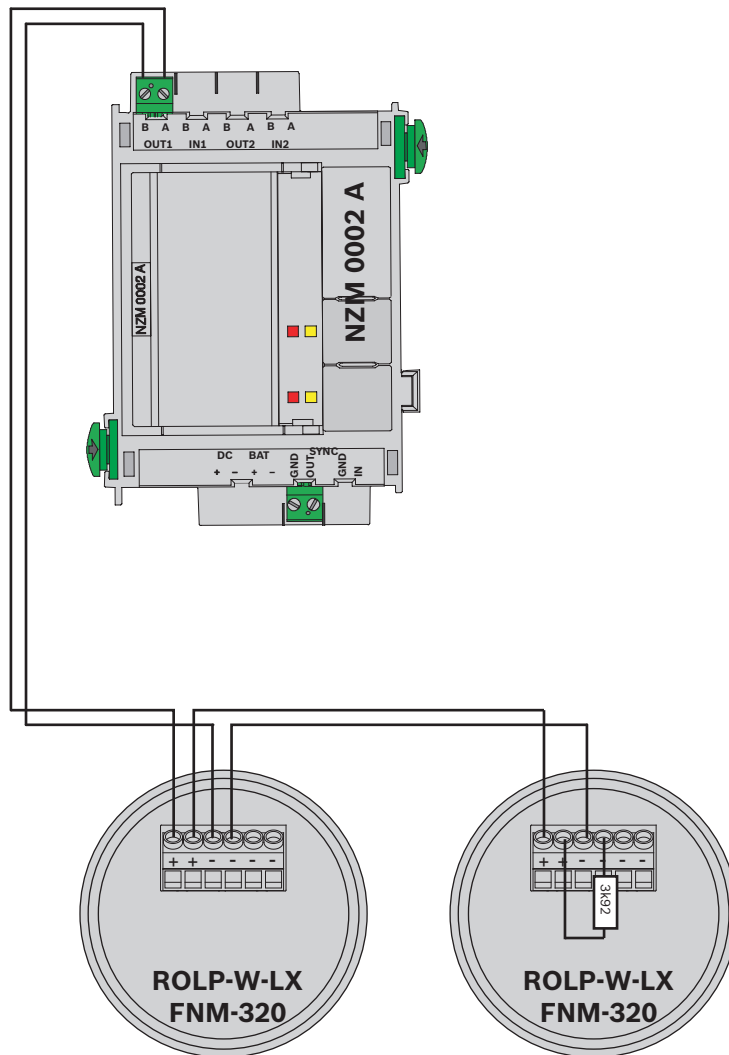
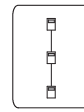


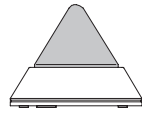
**ROLP-W-LX
FNM-320**



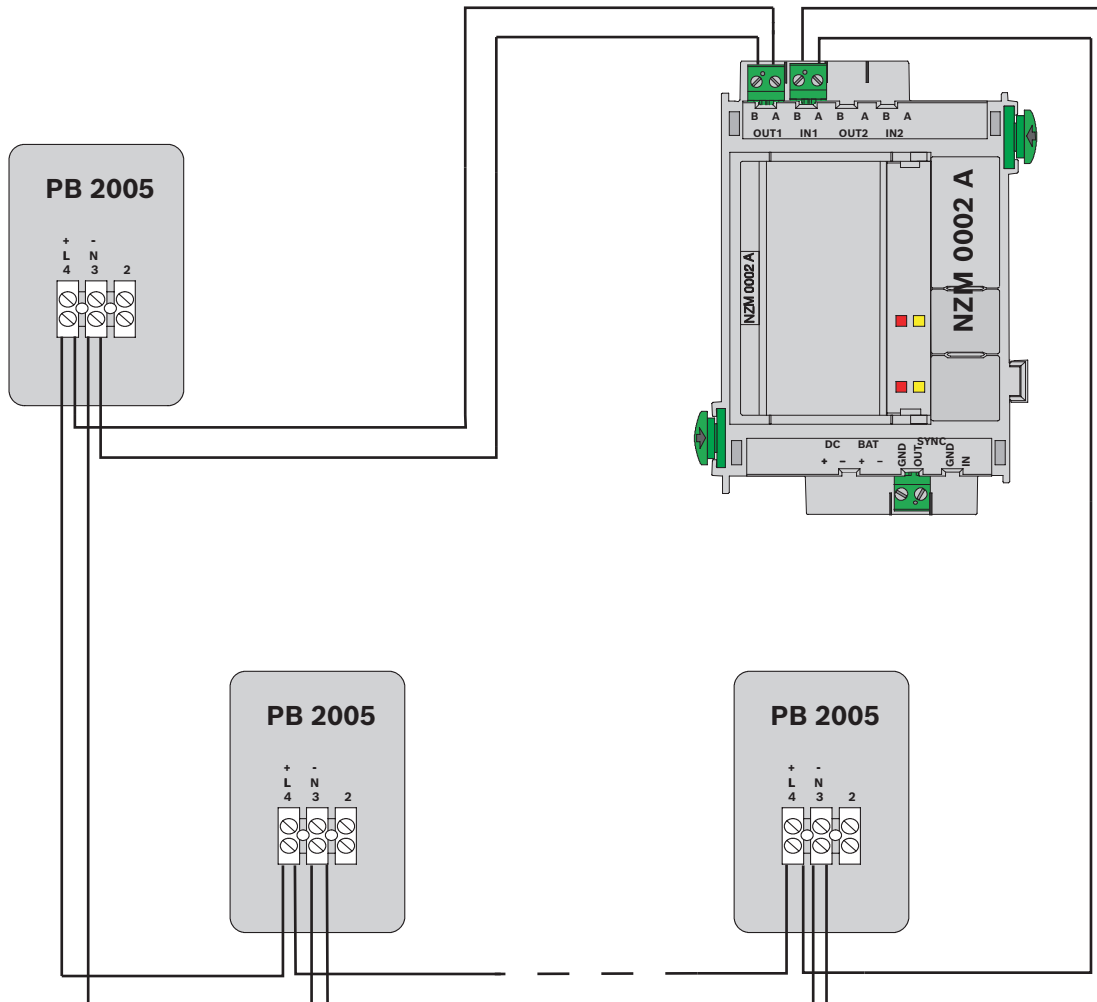
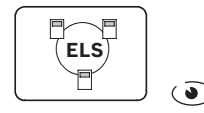


**ROLP-W-LX
FNM-320**



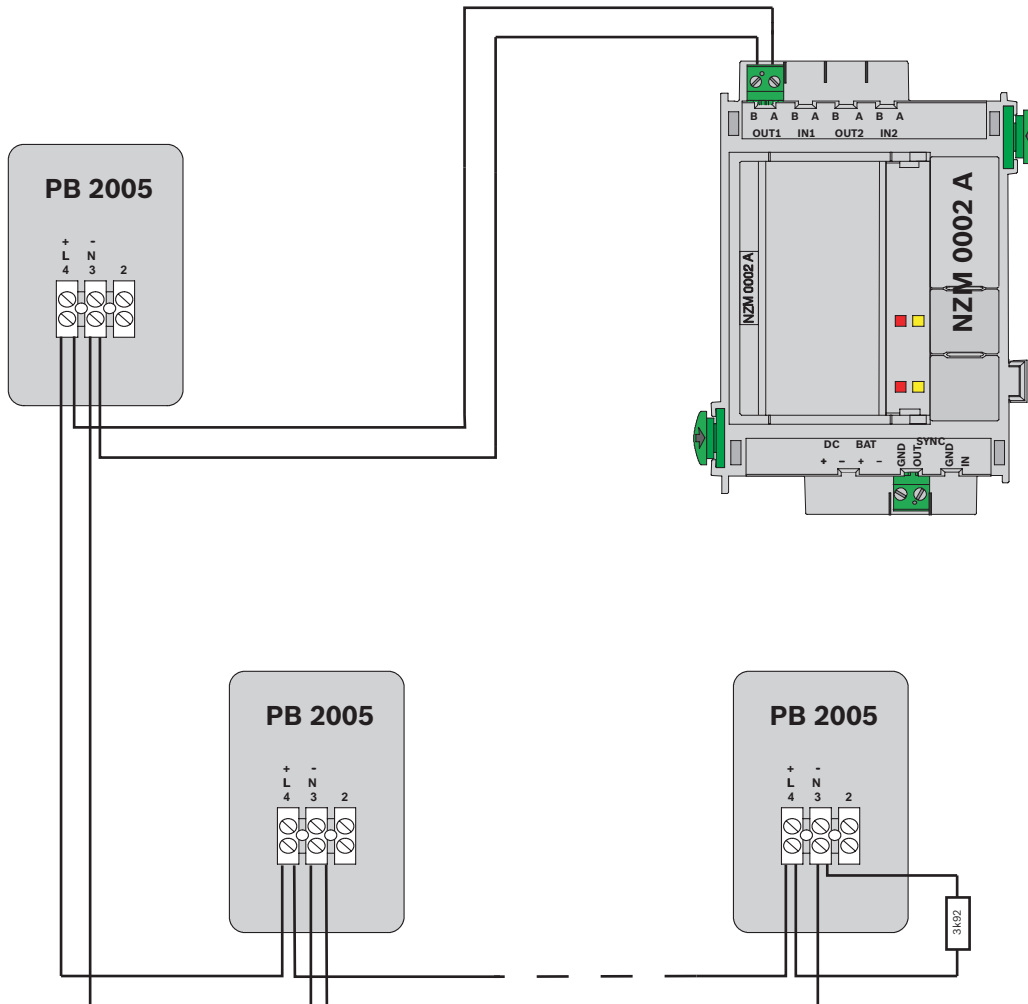
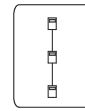


PB 2005



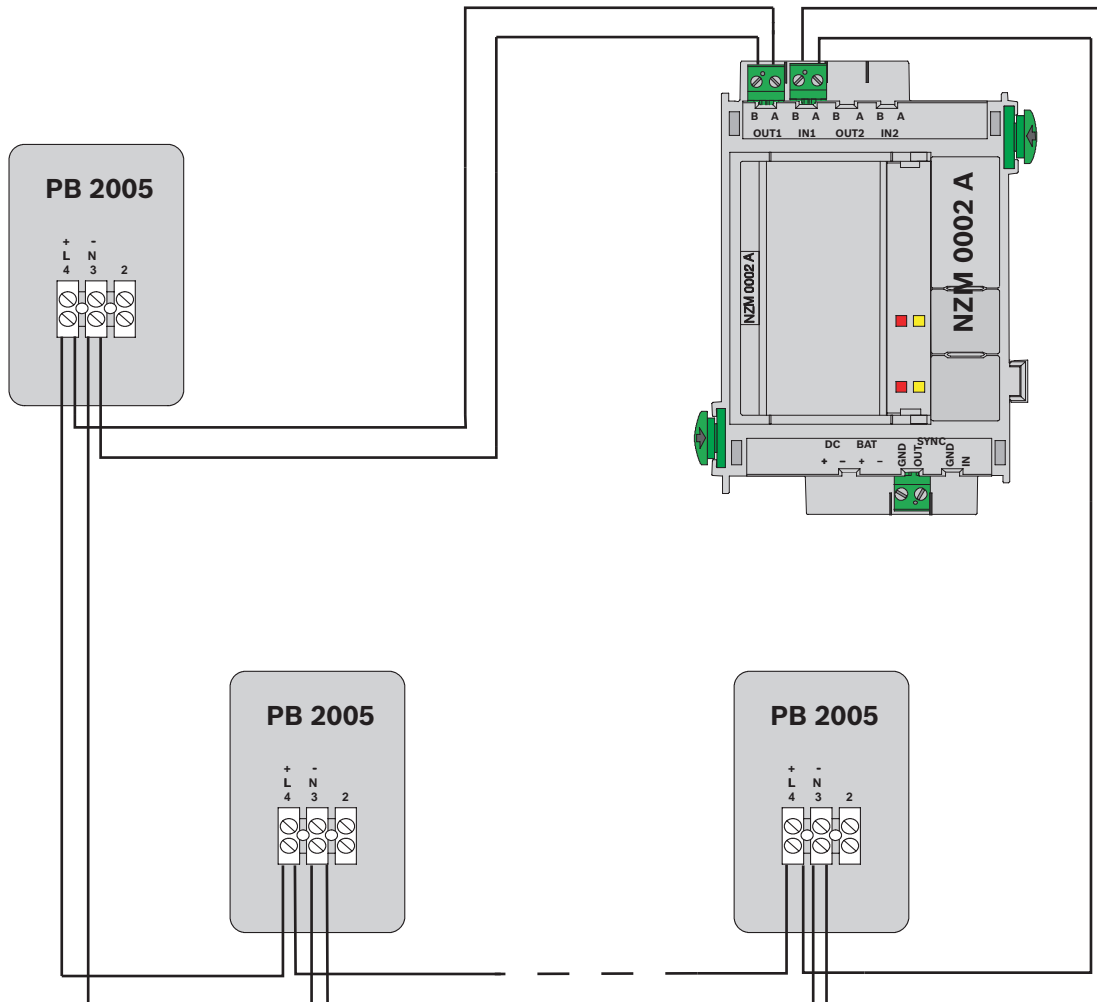
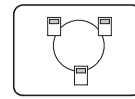


PB 2005



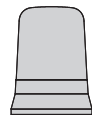


PB 2005

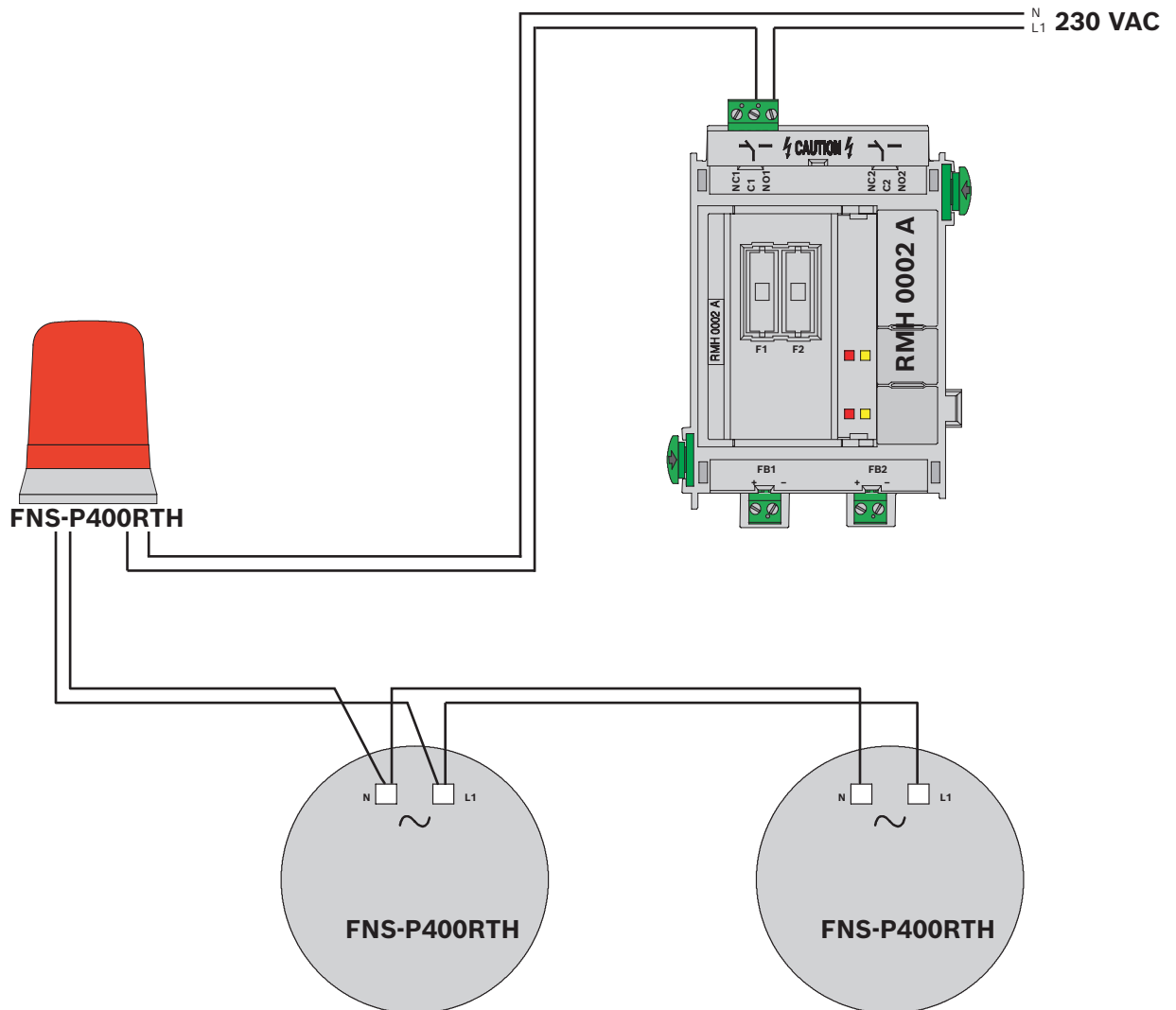
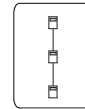


2.4.6

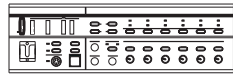
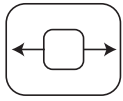
RMH 0002 A



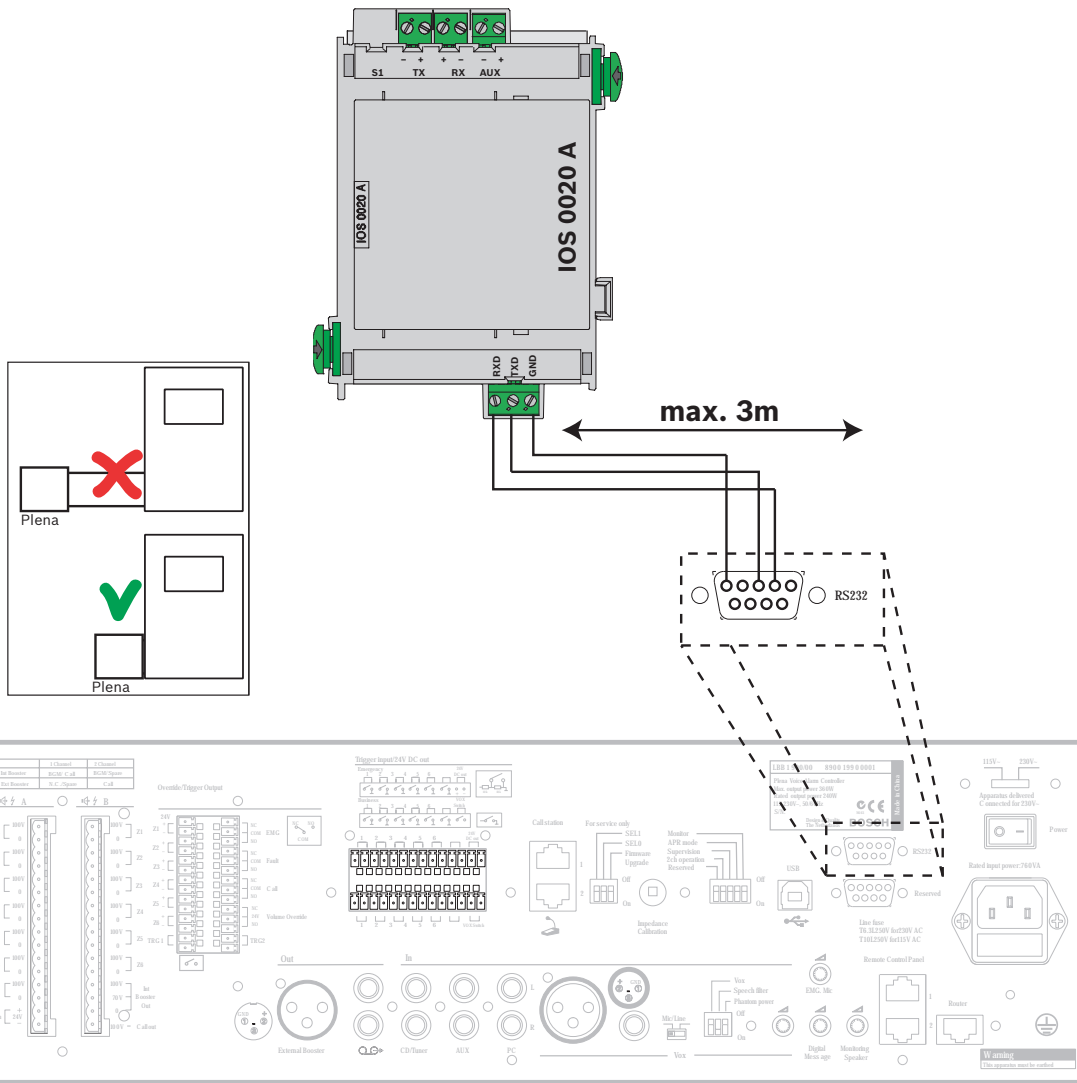
FNS-P400RTH



2.4.7 IOS 0020 A



Plena

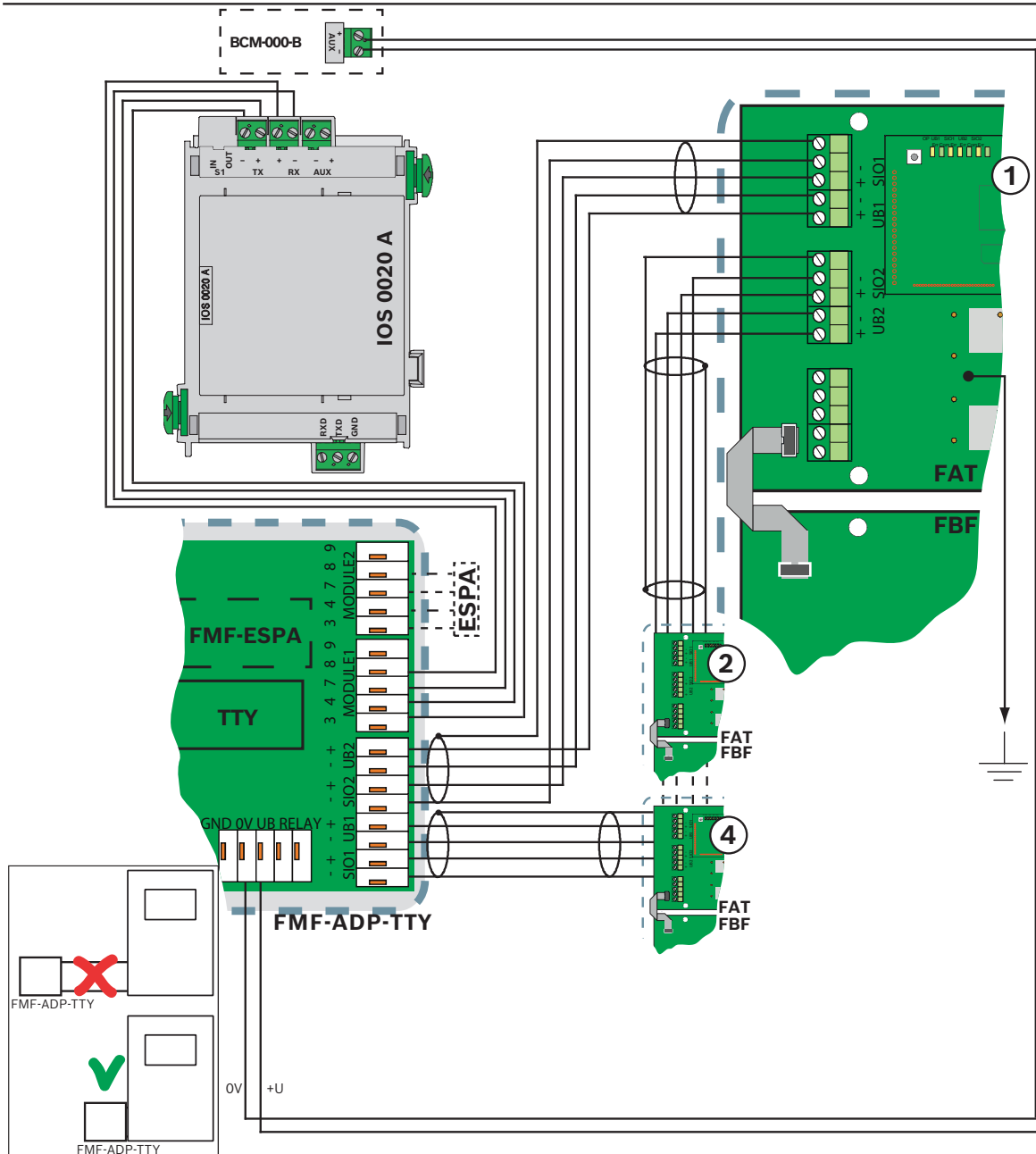




FAT4000 FBF4000 ADP4000

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

ELS

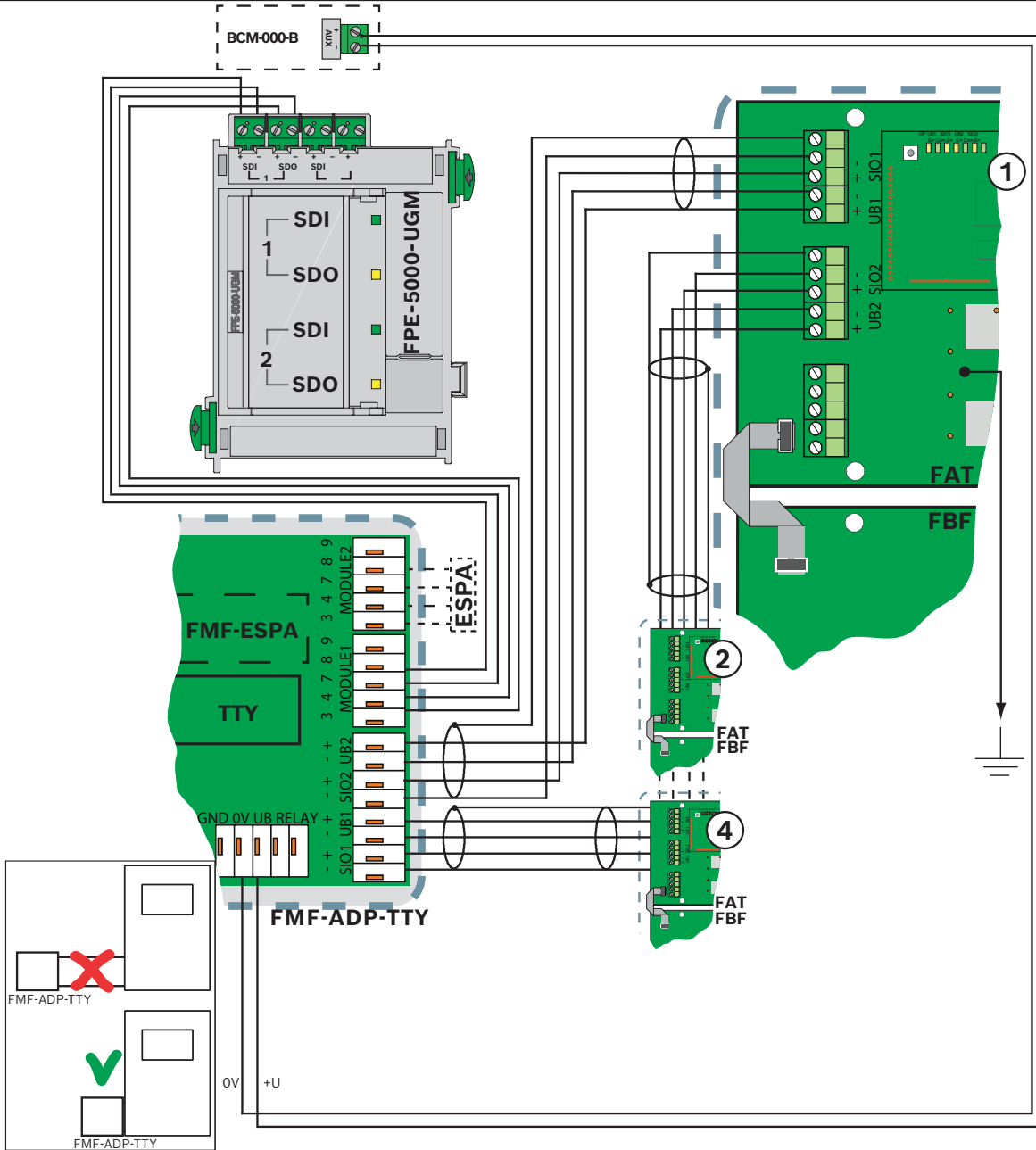


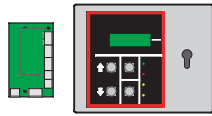
2.4.8 FPE-5000-UGM



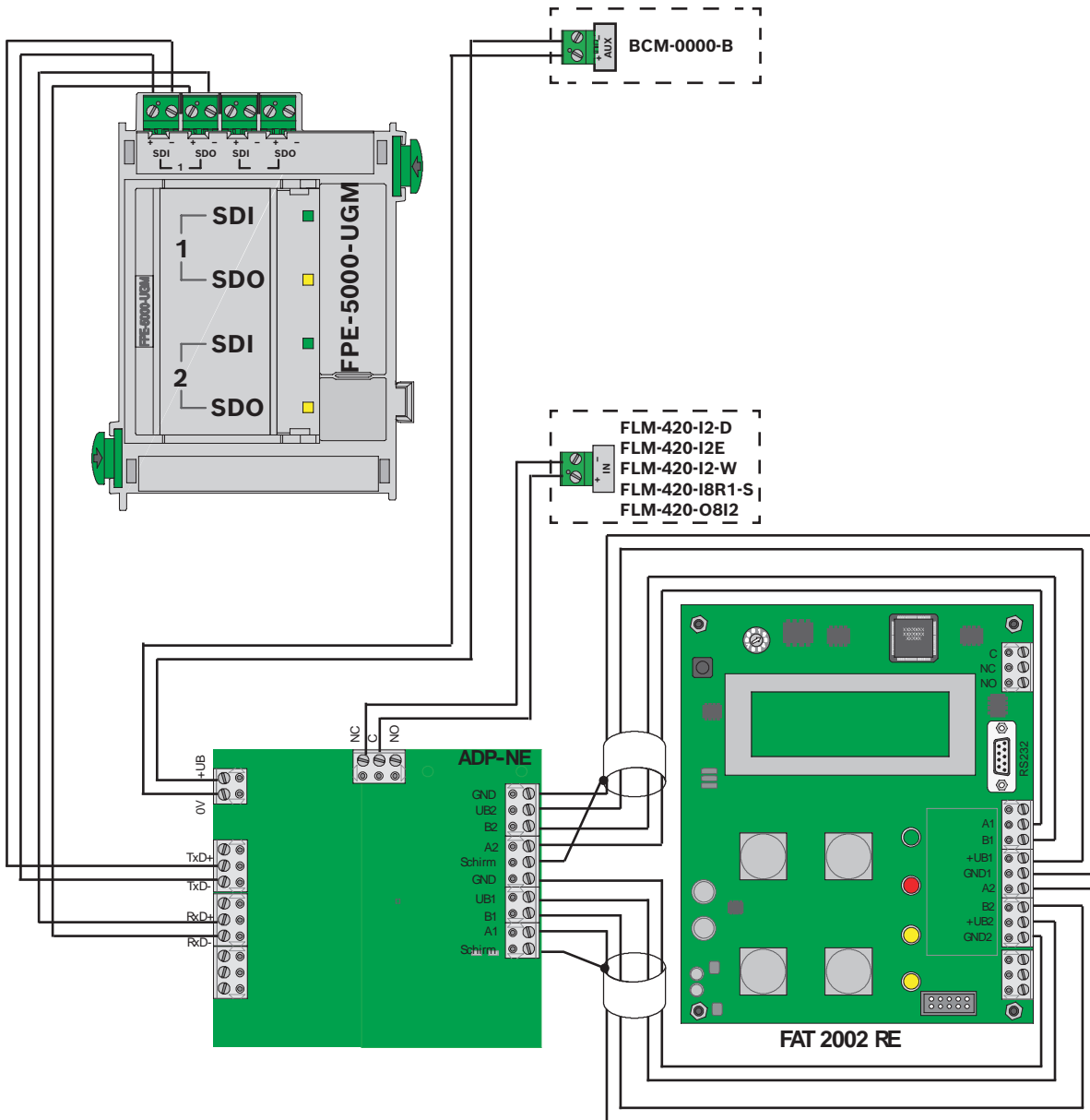
FAT4000 FBF4000 ADP4000
 FMF-FAT FMF-FBF-FAT
 FMF-FIBS-A4/-A3
 FMF-ADP

ELS





FAT2002RE
ADP-NE



2.5 Interface Modules



FLM-420-4/CON-D/S, Страница 125

FLM-420-I8R1-S, Страница 158

FLM-420-NAC-D/S, Страница 160

FLM-420-RHV, Страница 172

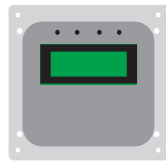
FLM-420-RLE-S, Страница 184

FLM-420-RLV1-E, Страница 185

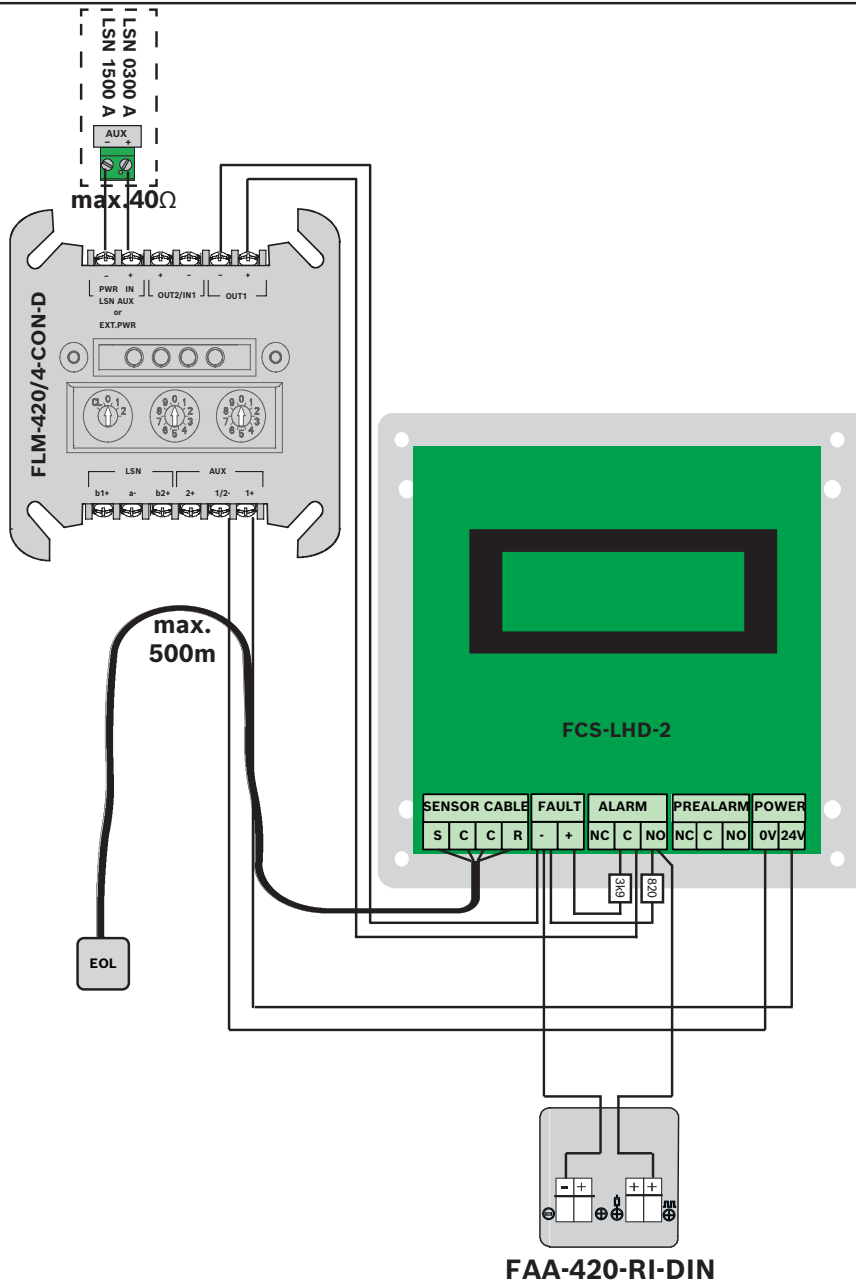
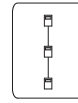
FLM-420-RLV8-S, Страница 186

FMF-ADP-FBF/FMF-ADP-TTY, Страница 187

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

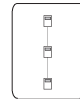


ALARMLINE II



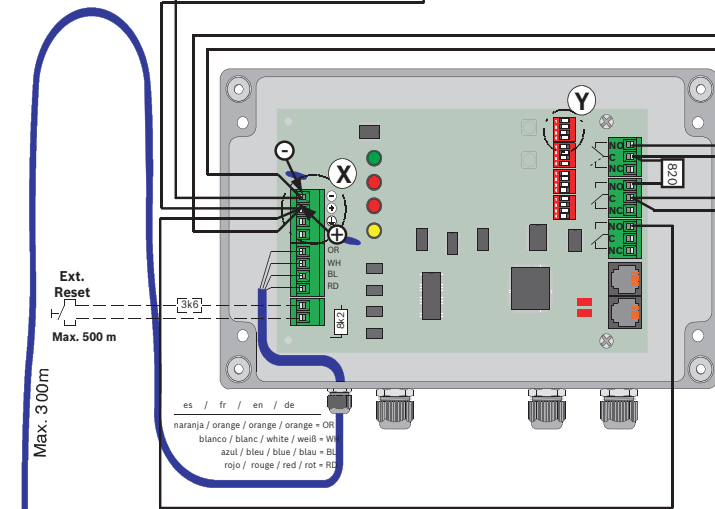
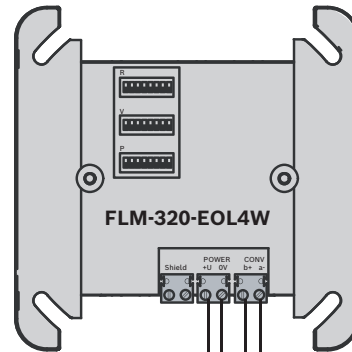
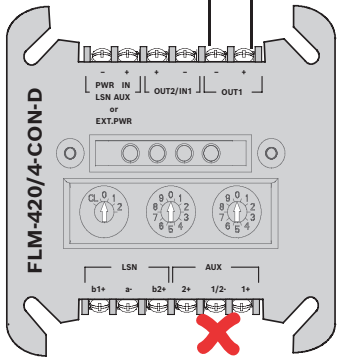


FCS-LWM-1



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



Ext. Reset
Max. 500 m

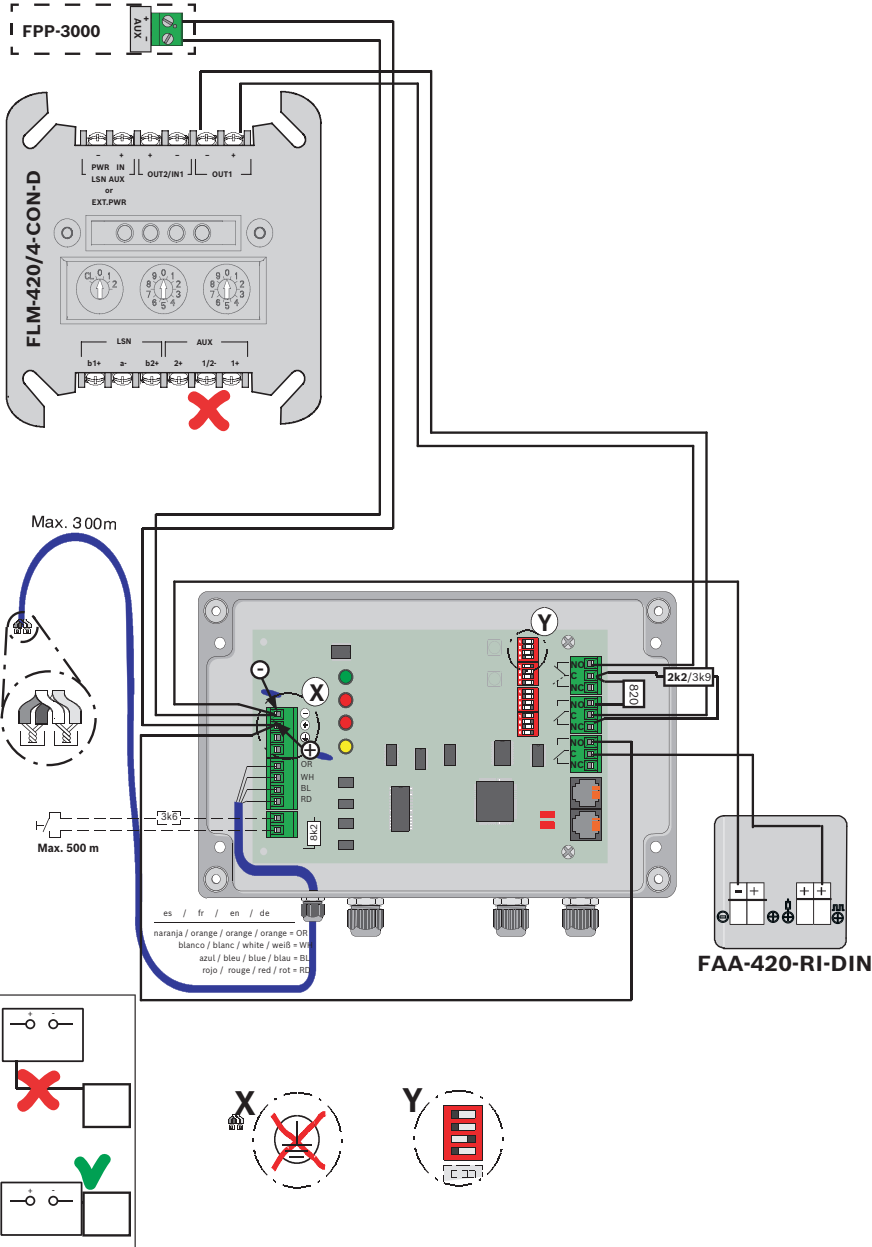
Max. 300m

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



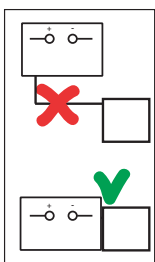
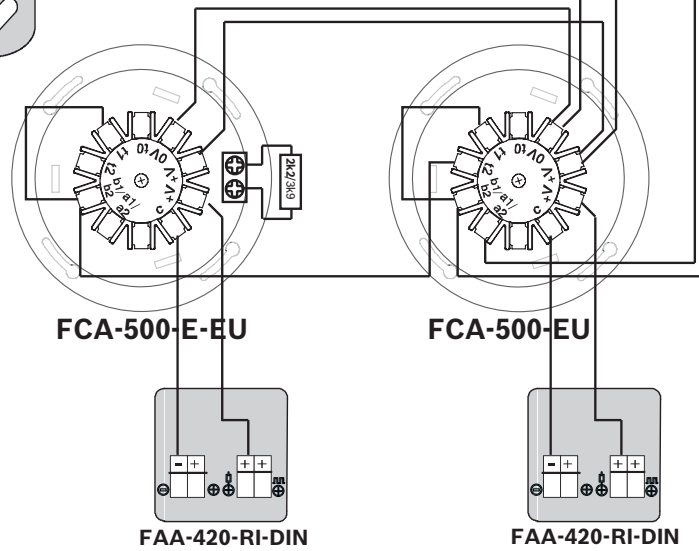
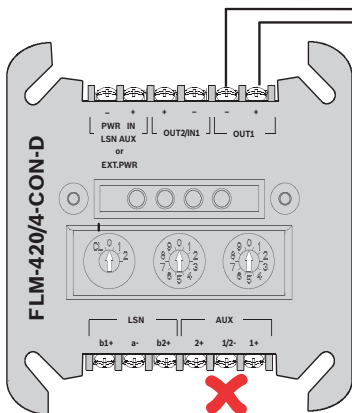


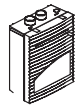
FCS-LWM-1





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

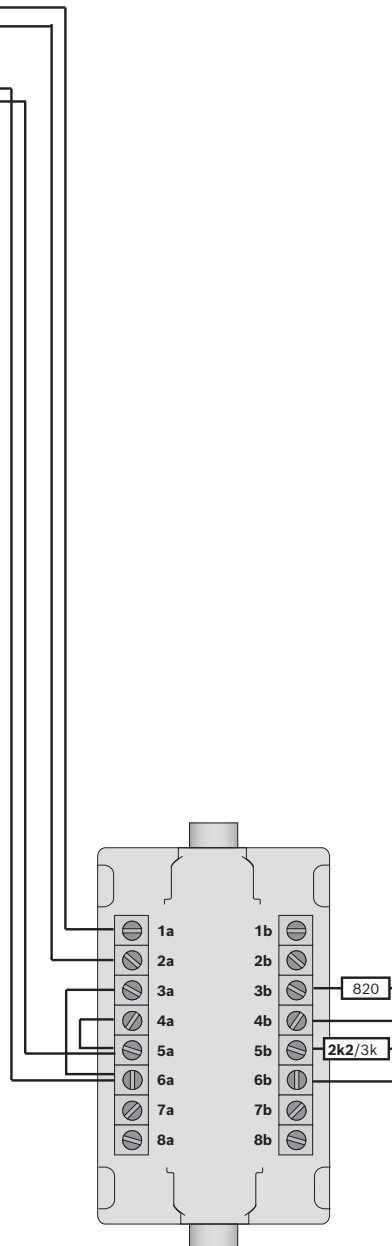
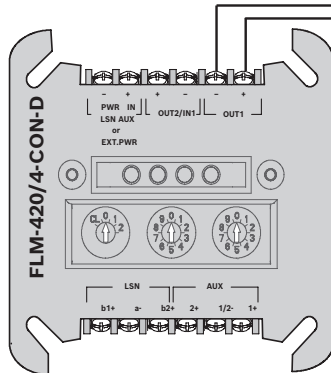


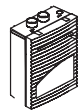


FCS-320-TM Series

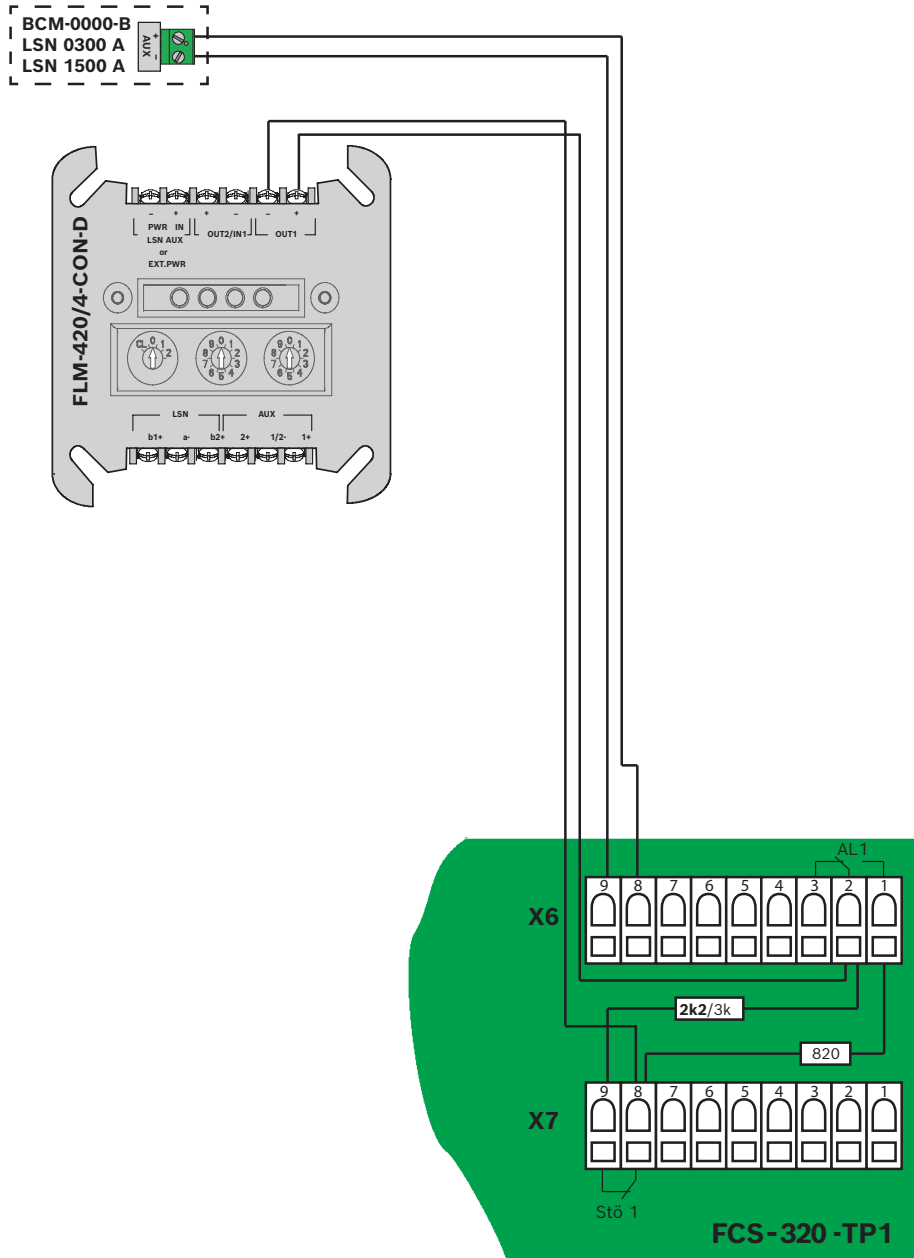
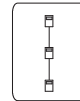


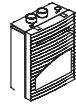
BCM-0000-B
LSN 0300 A
LSN 1500 A



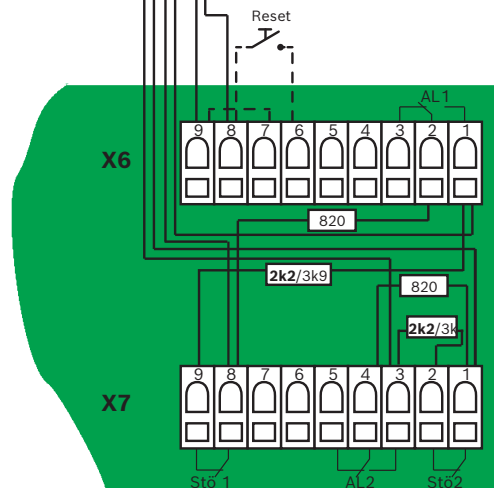
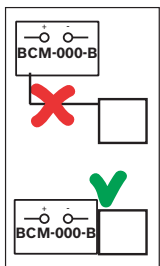
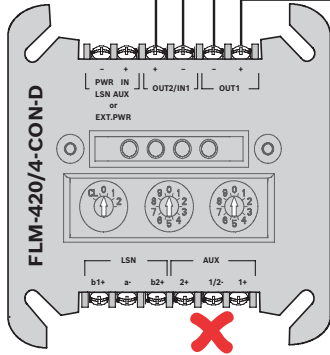
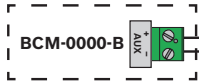


FCS-320-TP Series

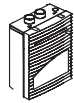




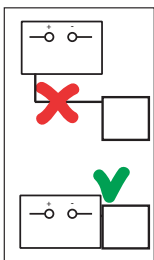
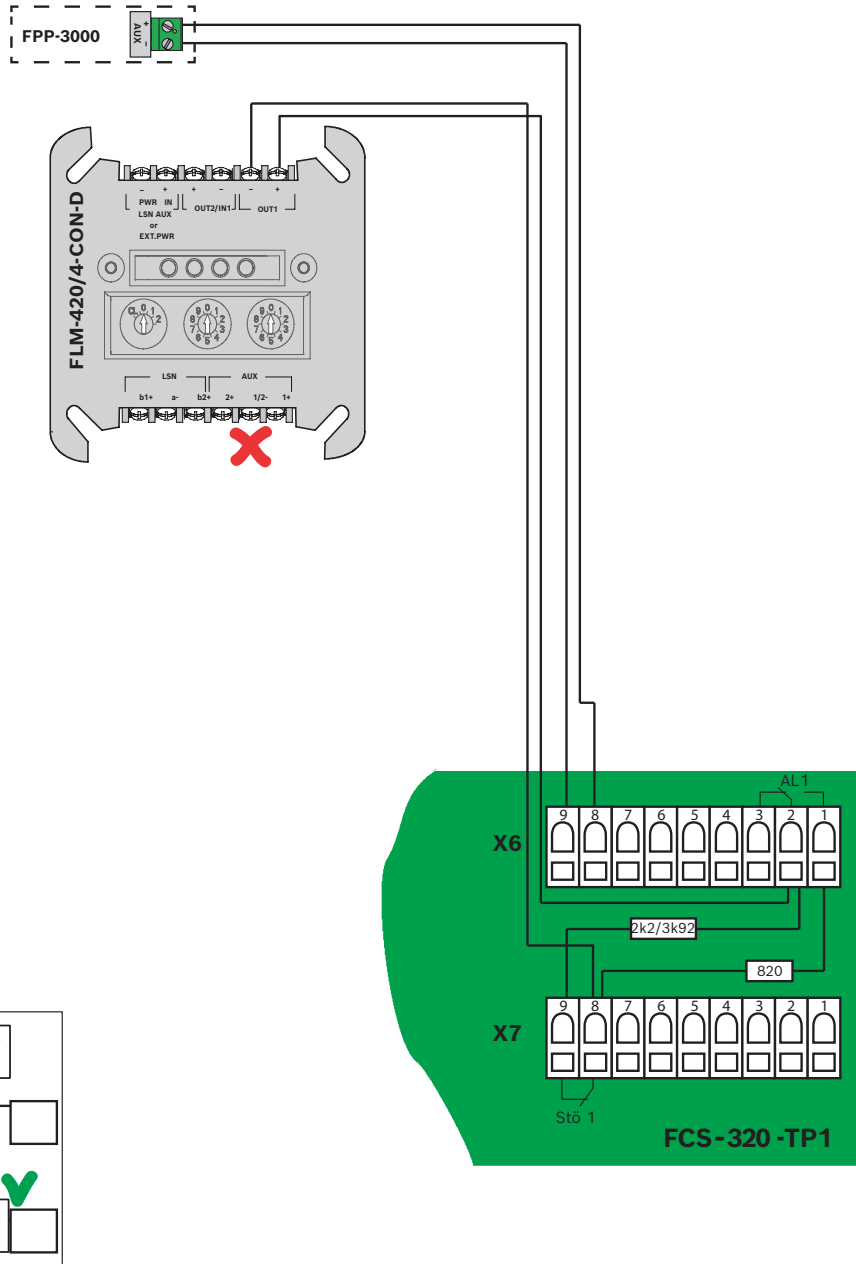
FCS-320-TP Series

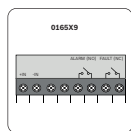


FCS-320-TP2

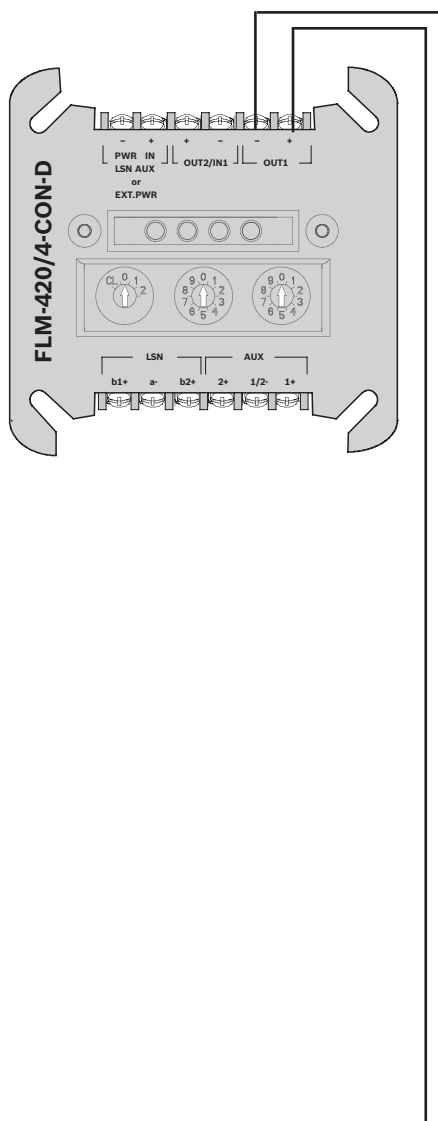
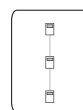


FCS-320-TP1

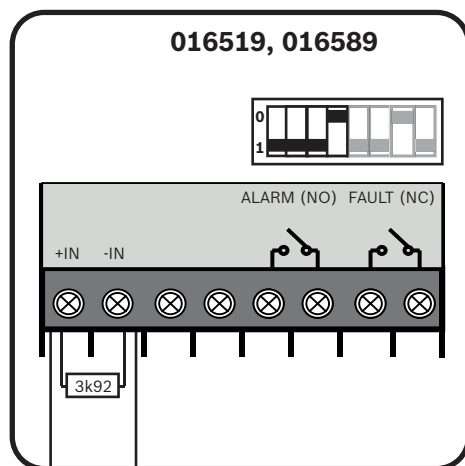


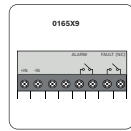


016519, 016589 IR3 Flame Detector

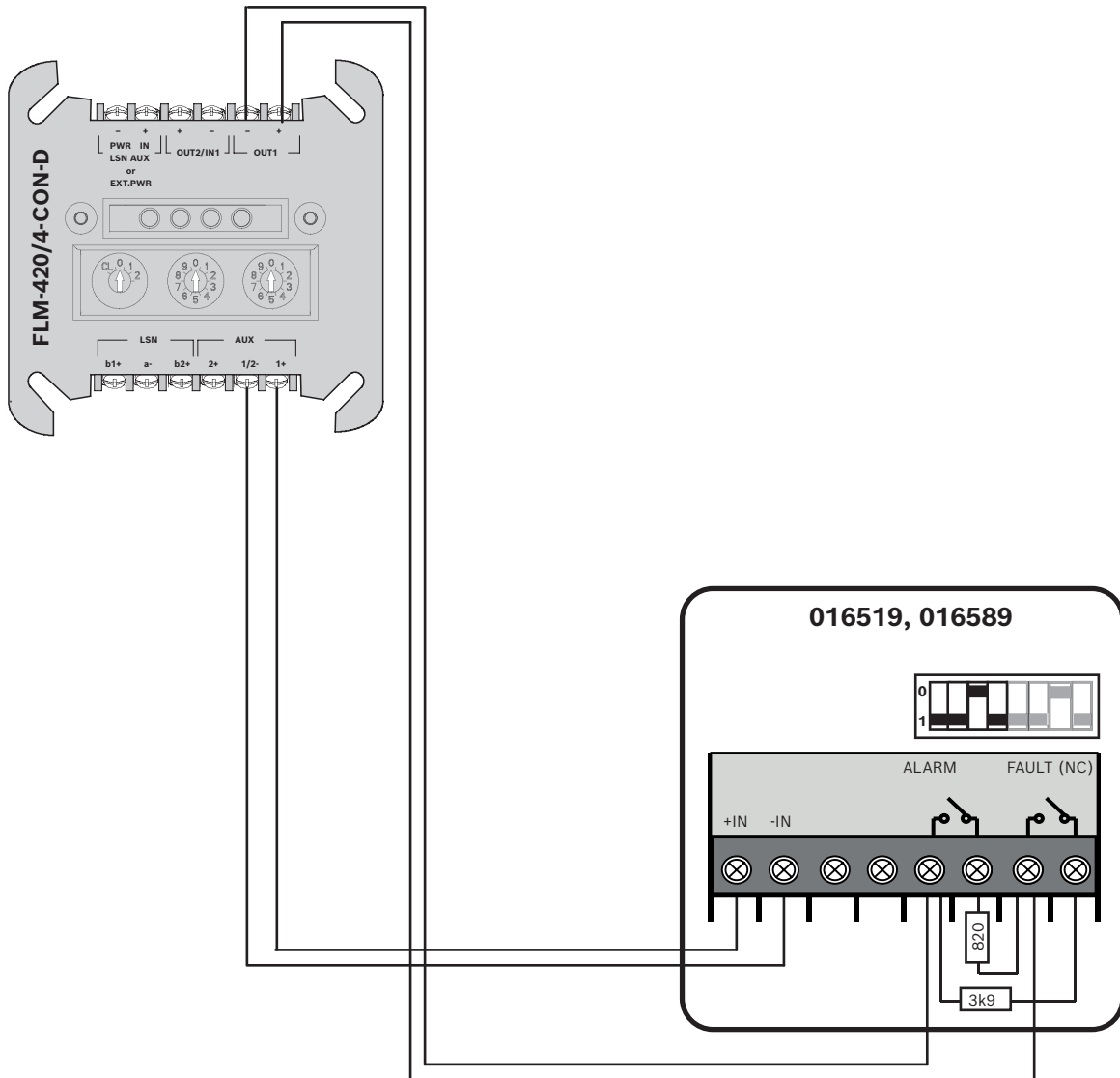
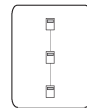


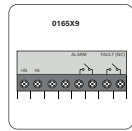
max. 1 x 0165X9



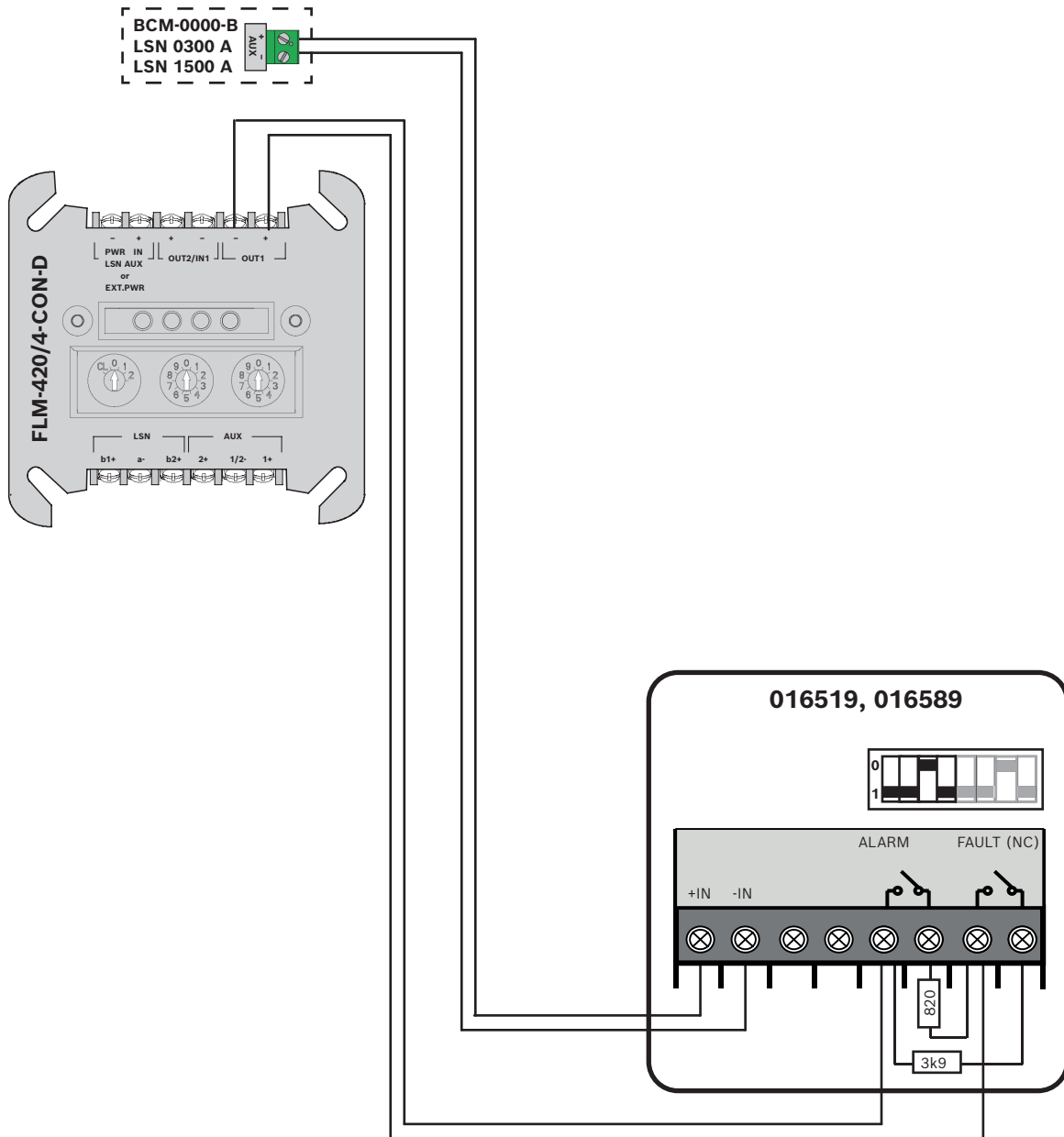
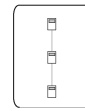


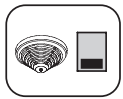
016519, 016589
IR3 Flame Detector



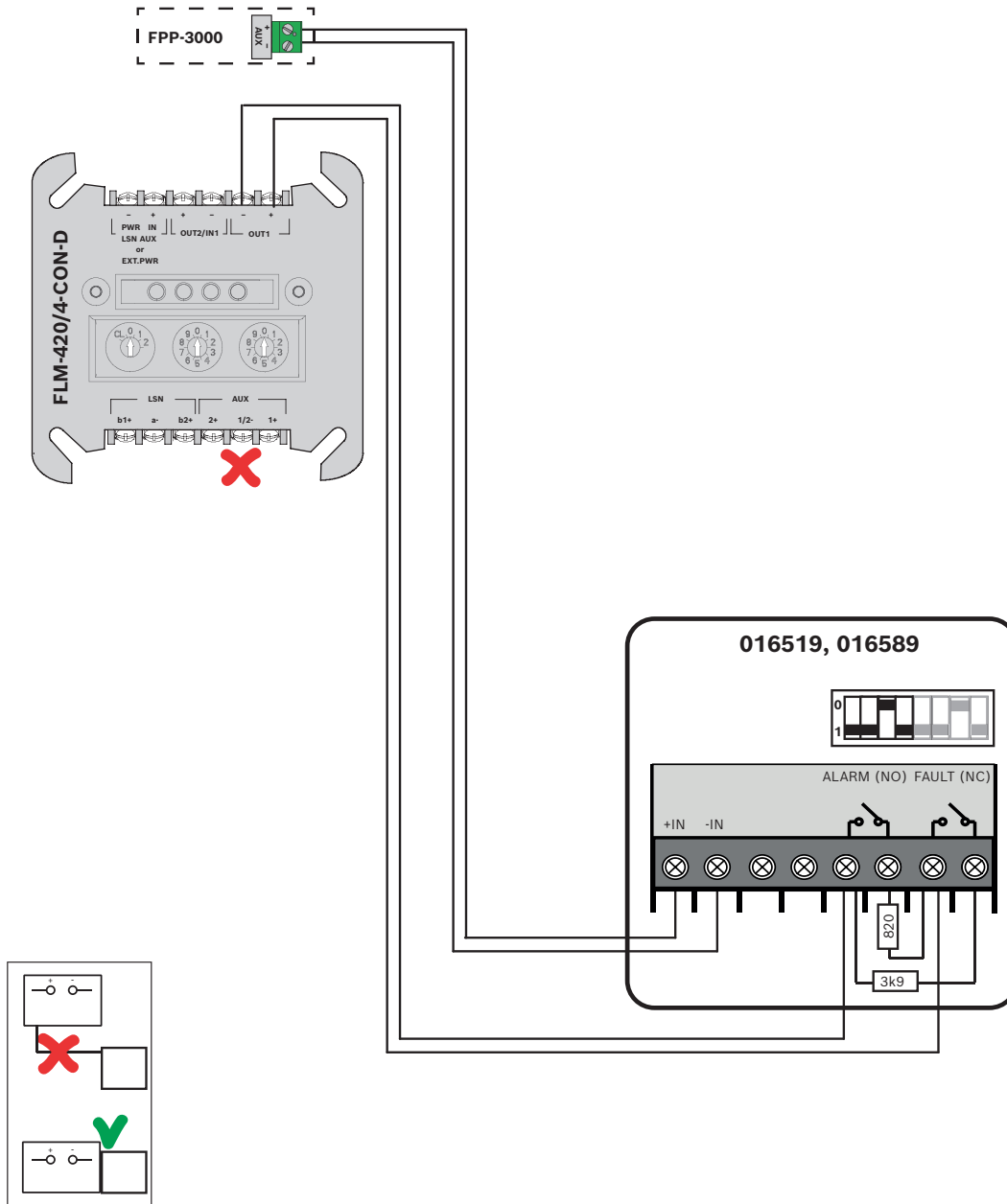


016519, 016589
IR3 Flame Detector



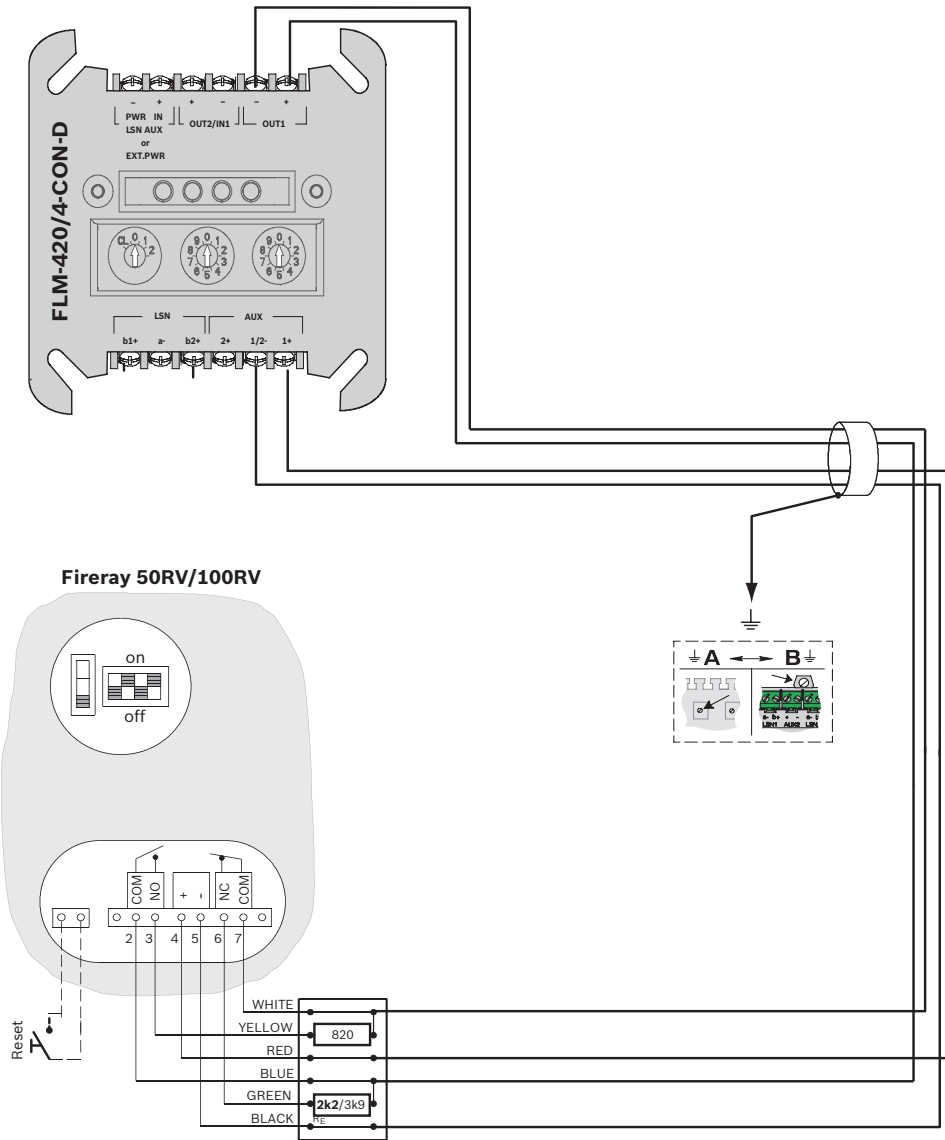


**016519, 016589
IR3 Flame Detector**





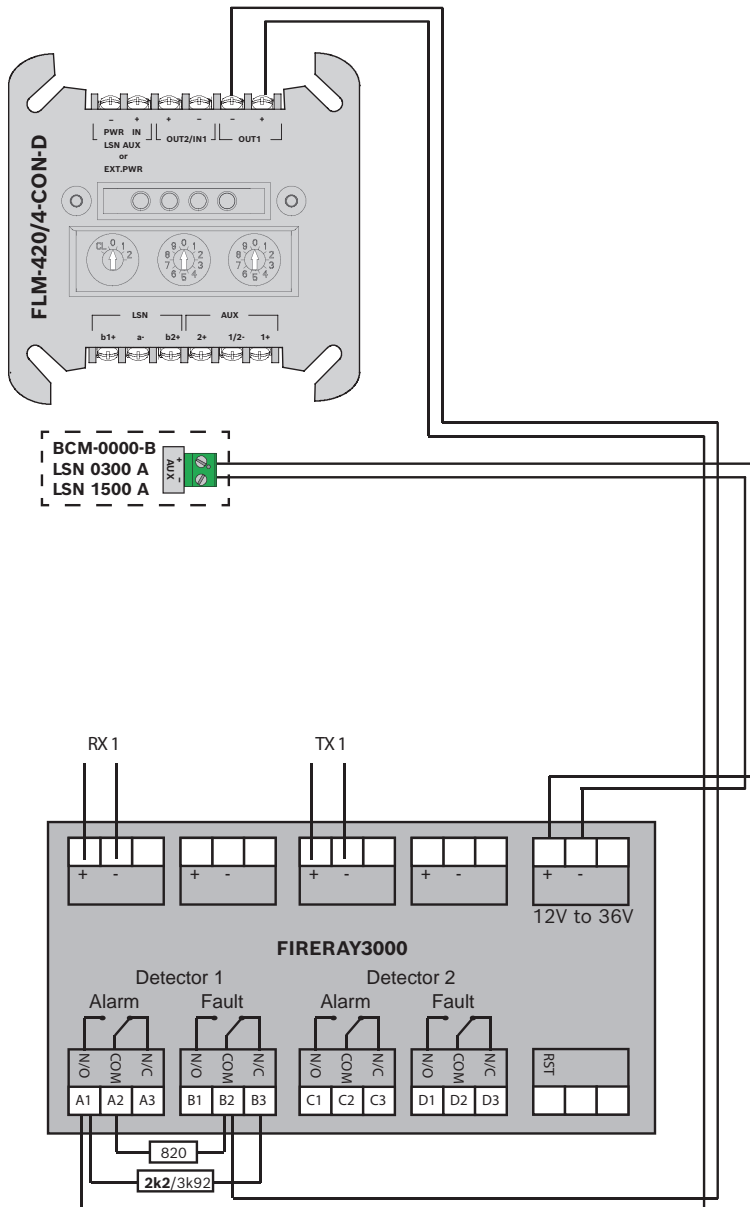
**Fireray 50RV
Fireray 100RV**





FIRERAY3000

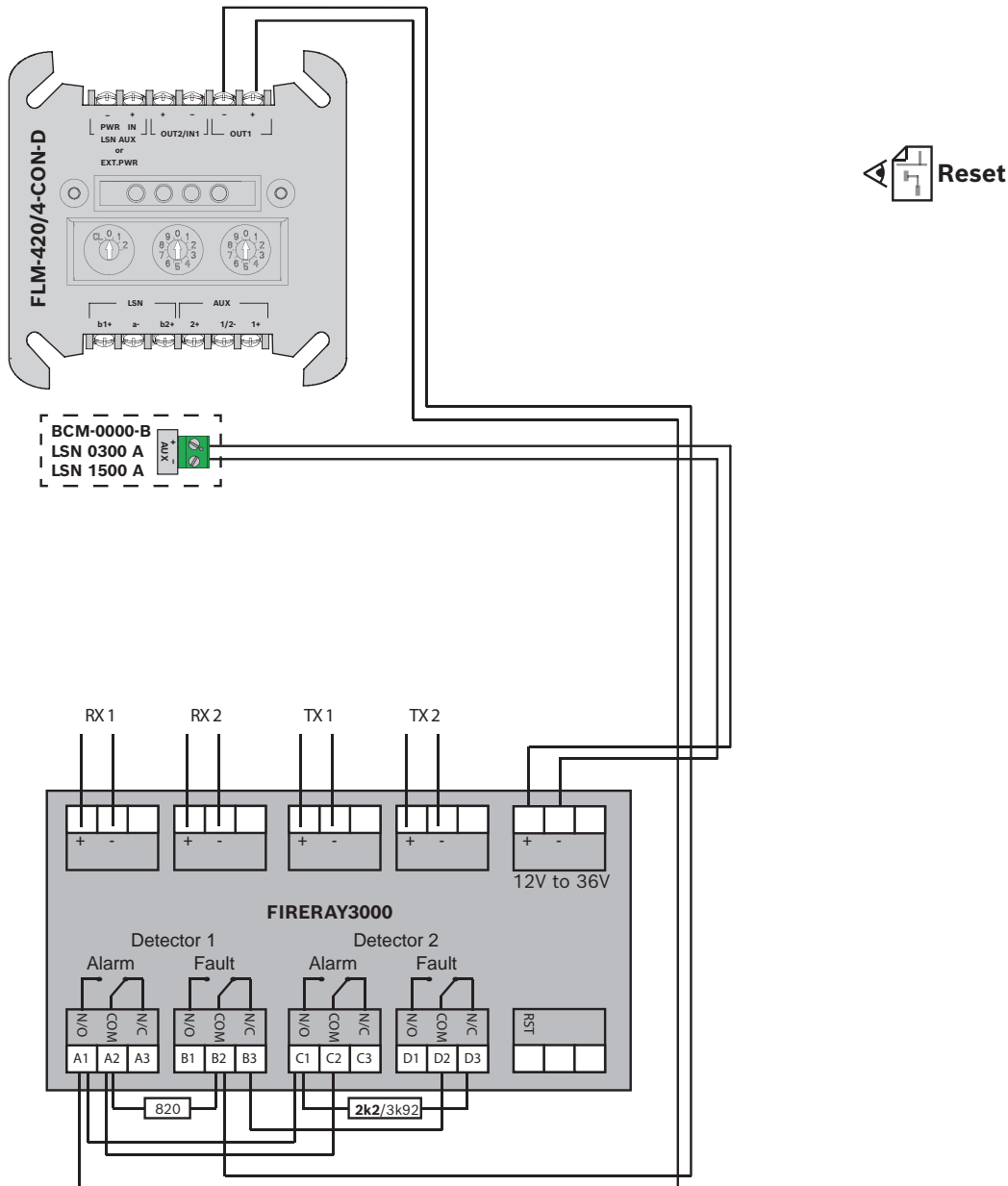
1 x





FIRERAY3000

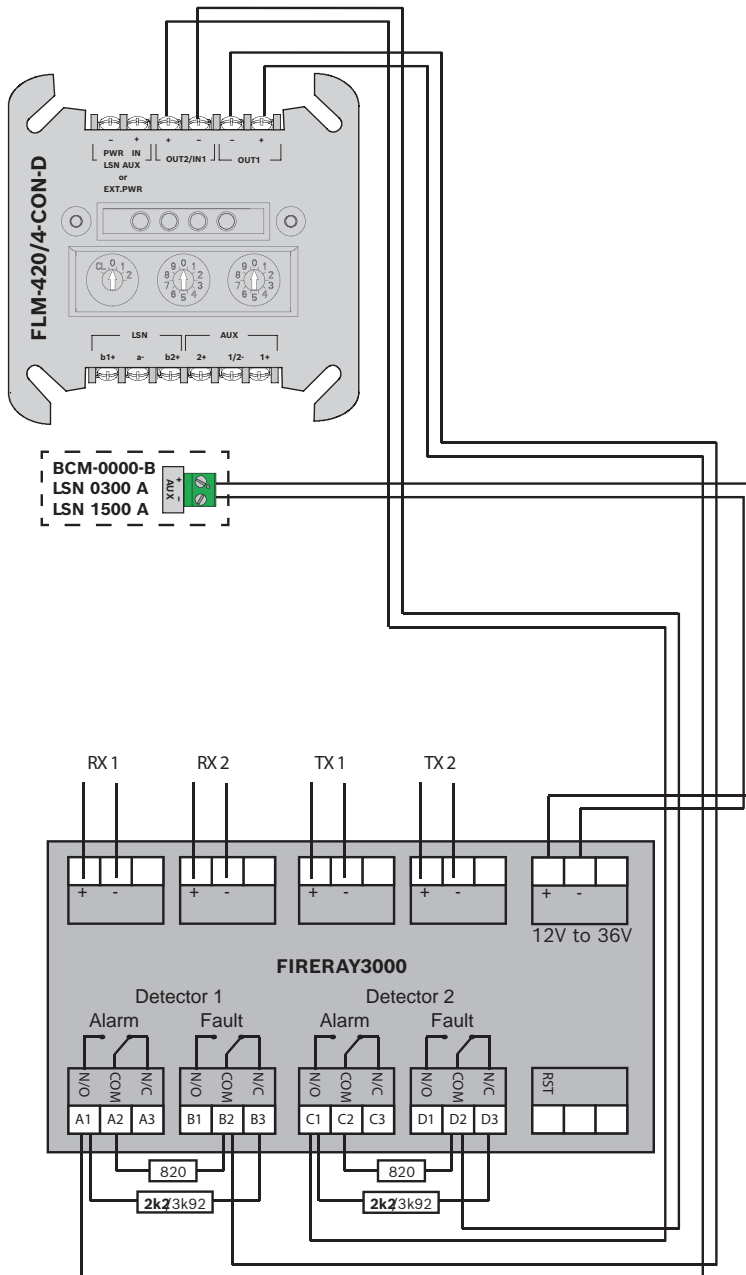
2 x **OUT1**

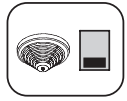




FIRERAY3000

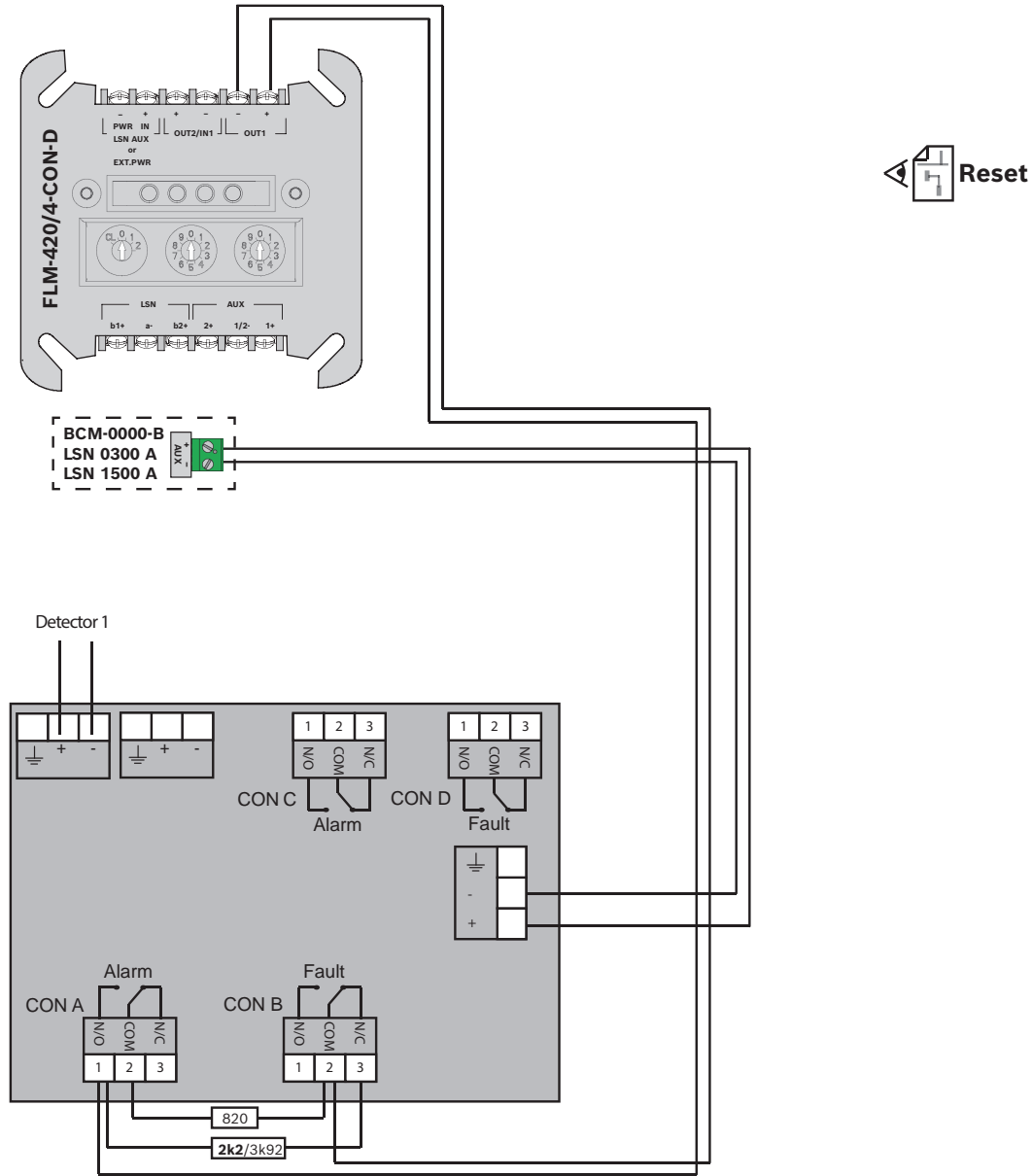
2 x **OUT1+2**





FIRERAY5000

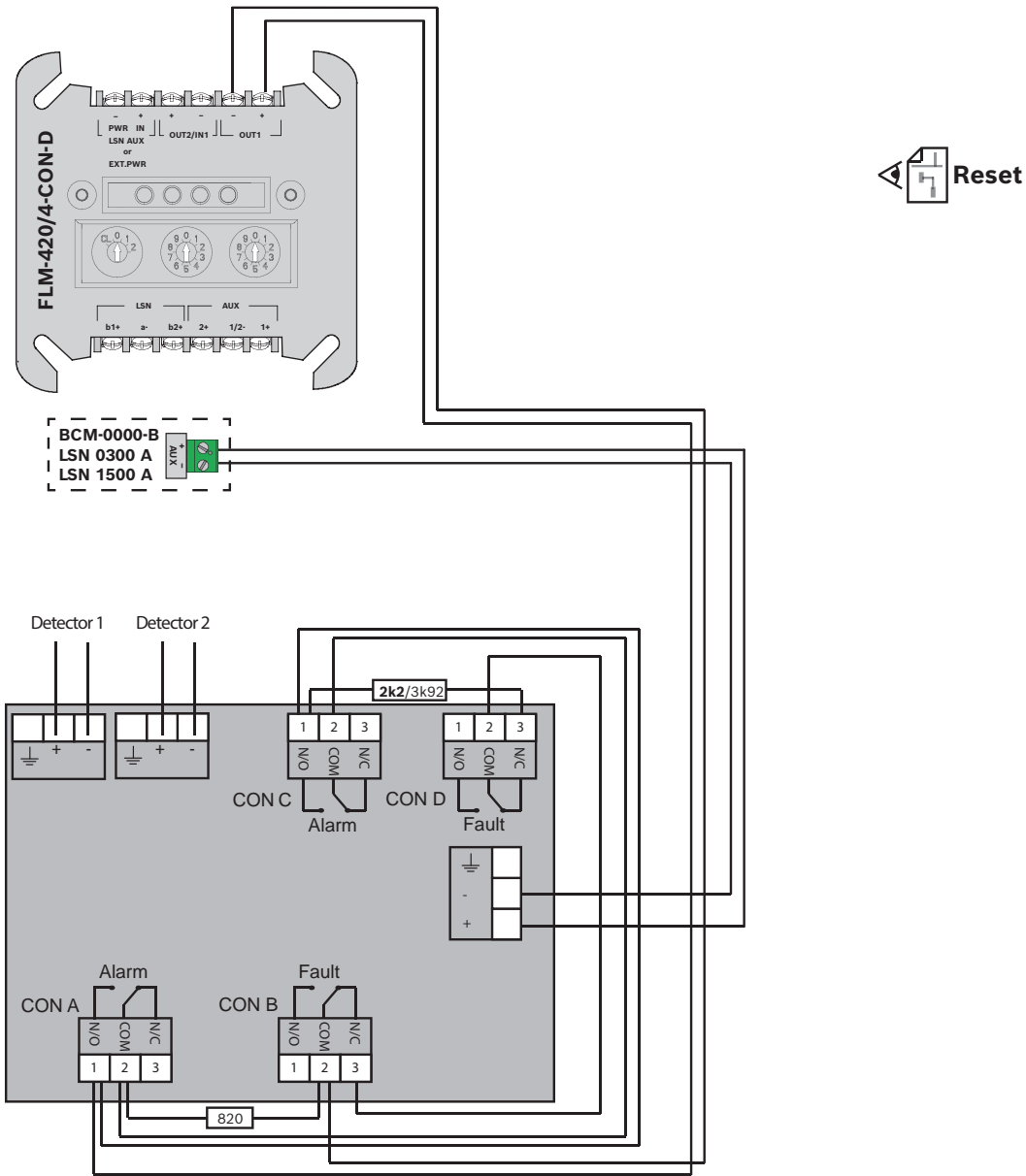
1 x

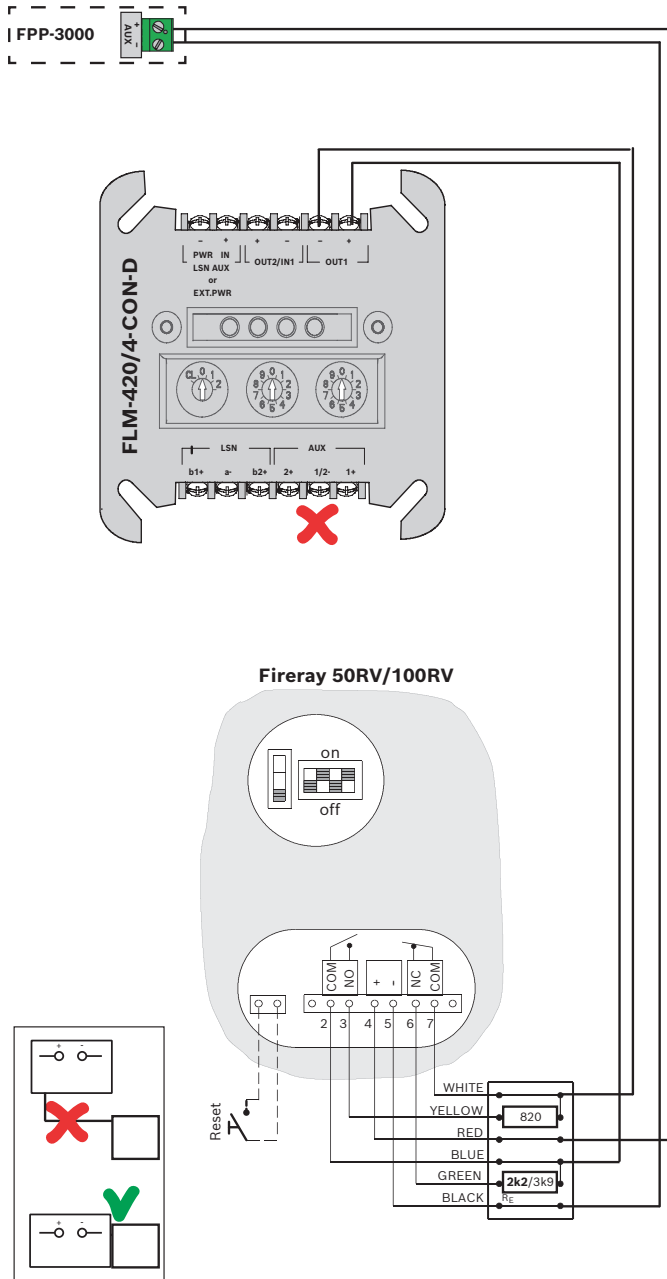




FIRERAY5000

2 x OUT1

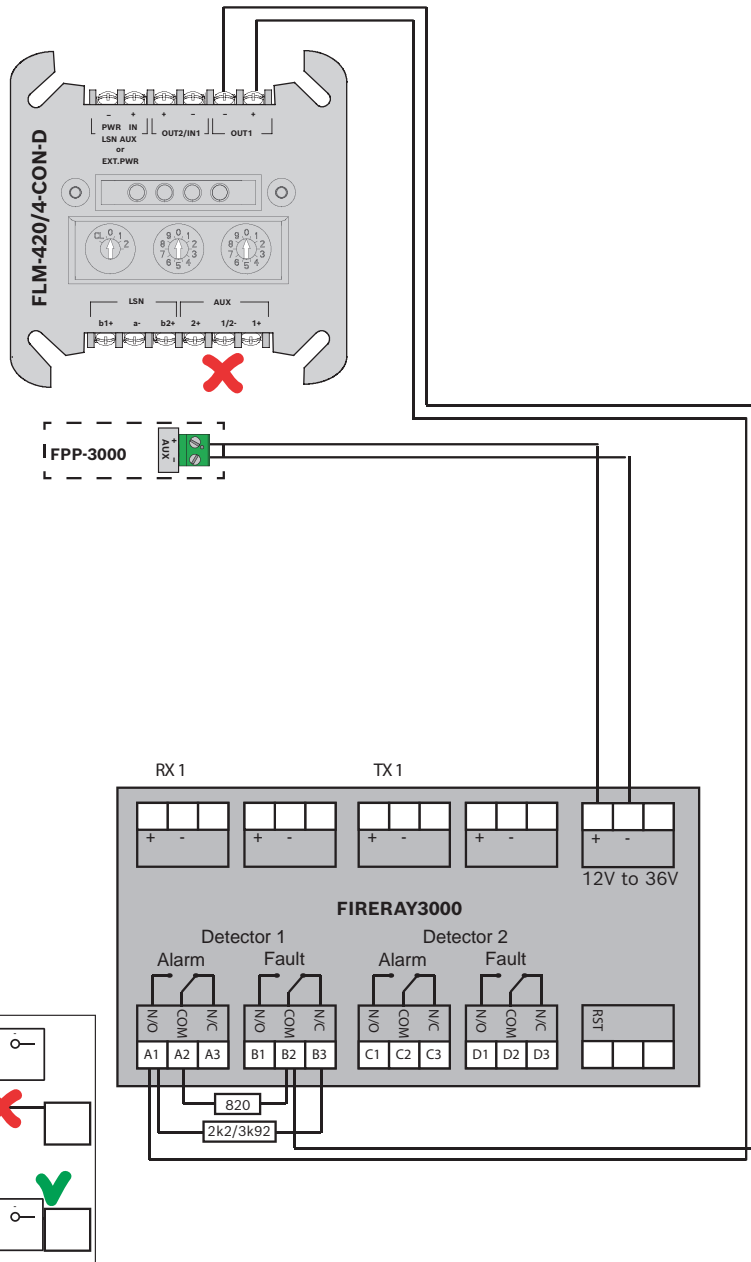




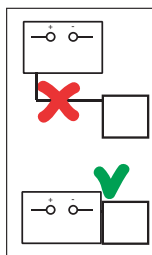


FIRERAY3000

1 x



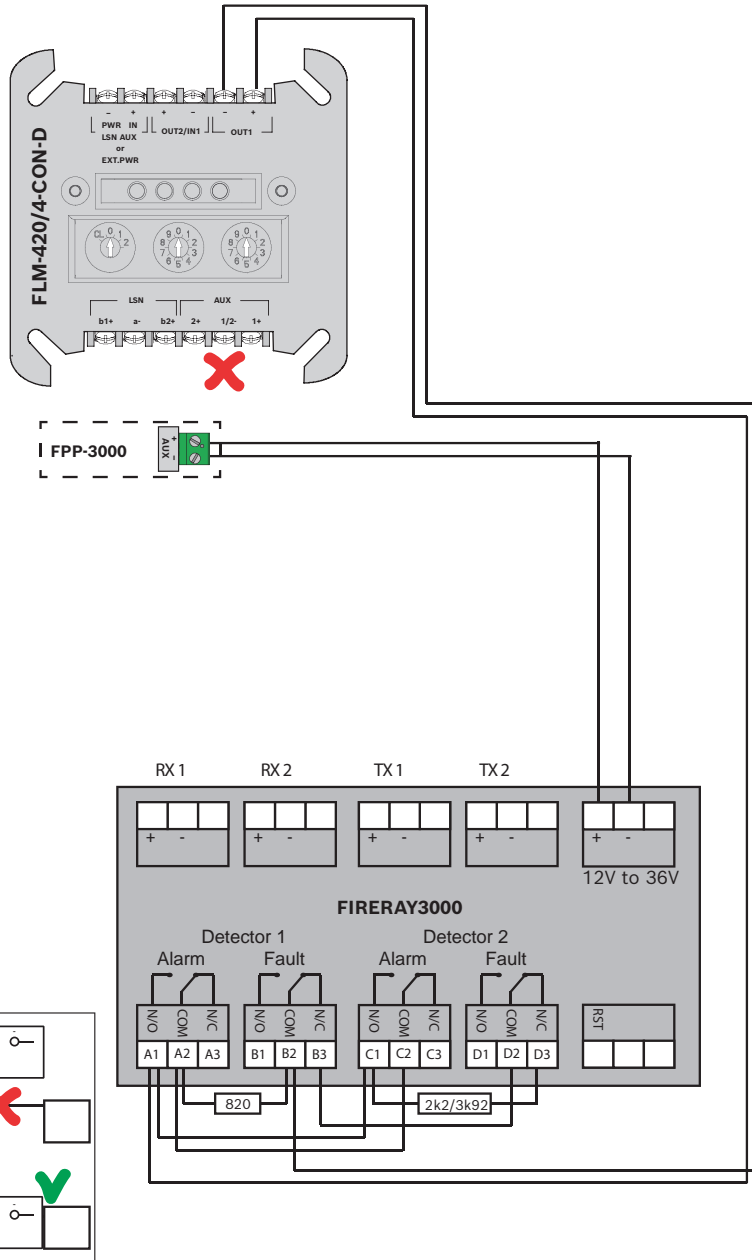
Reset action





FIRERAY3000

2 x  **OUT1**

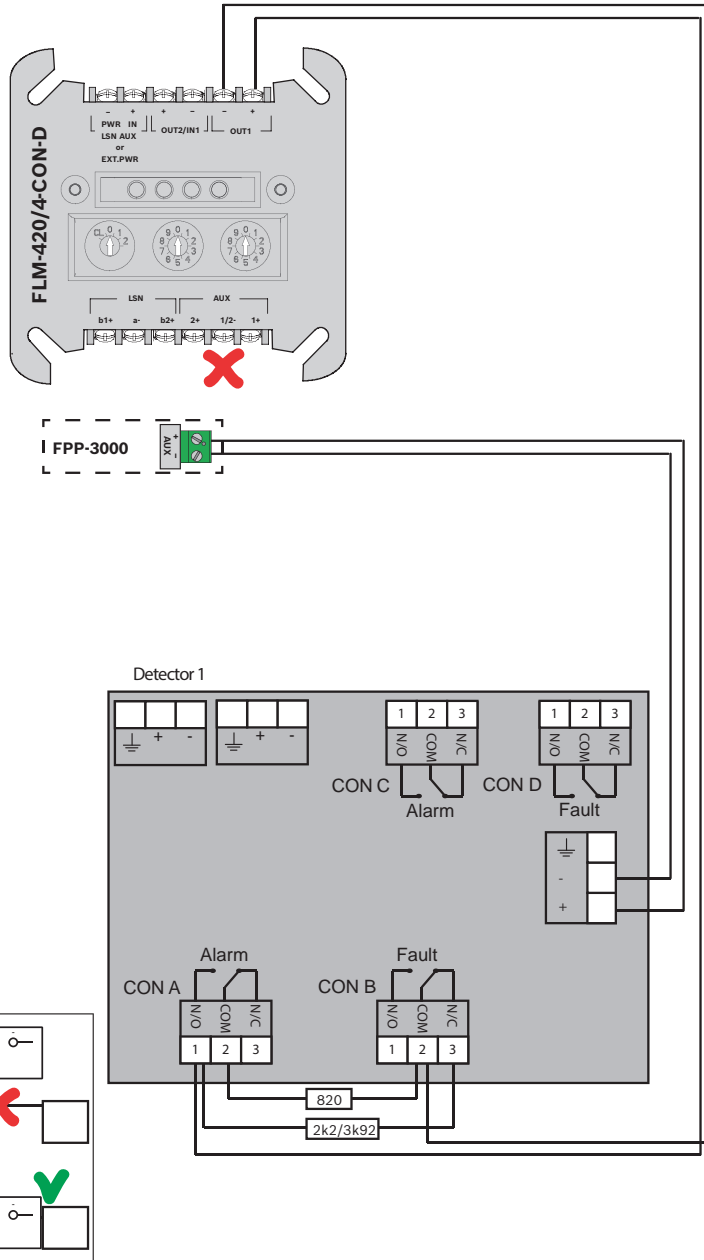


 **Reset action**



FIRERAY5000

1 x

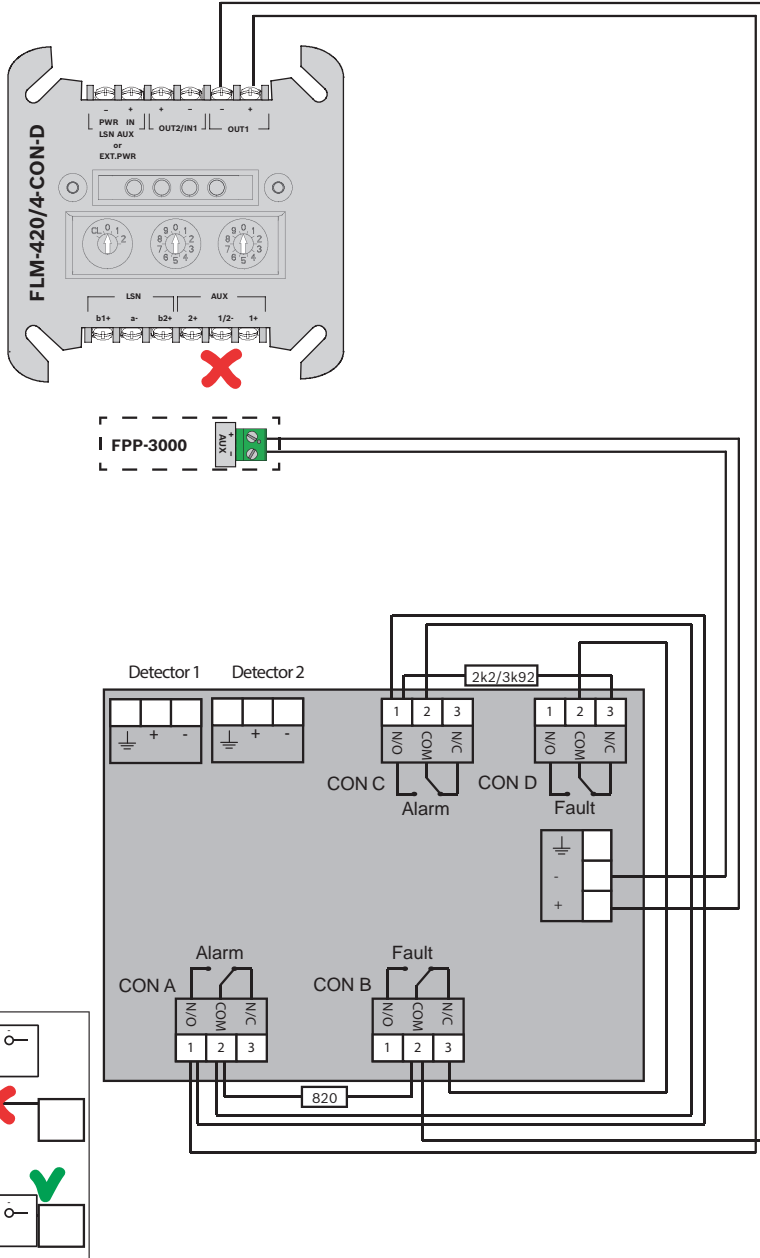


Reset action



FIRERAY5000

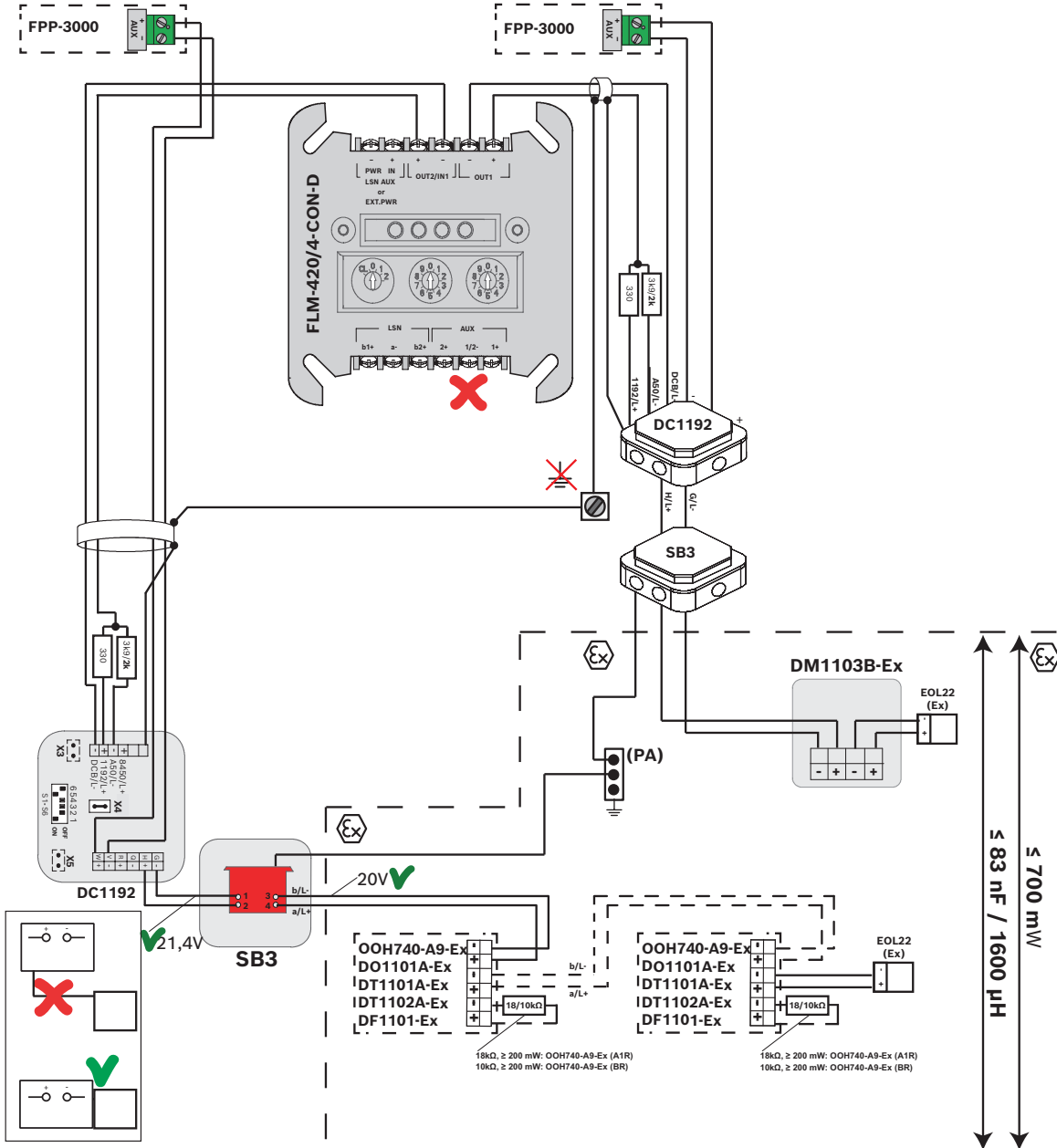
2 x OUT1

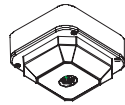


Reset action

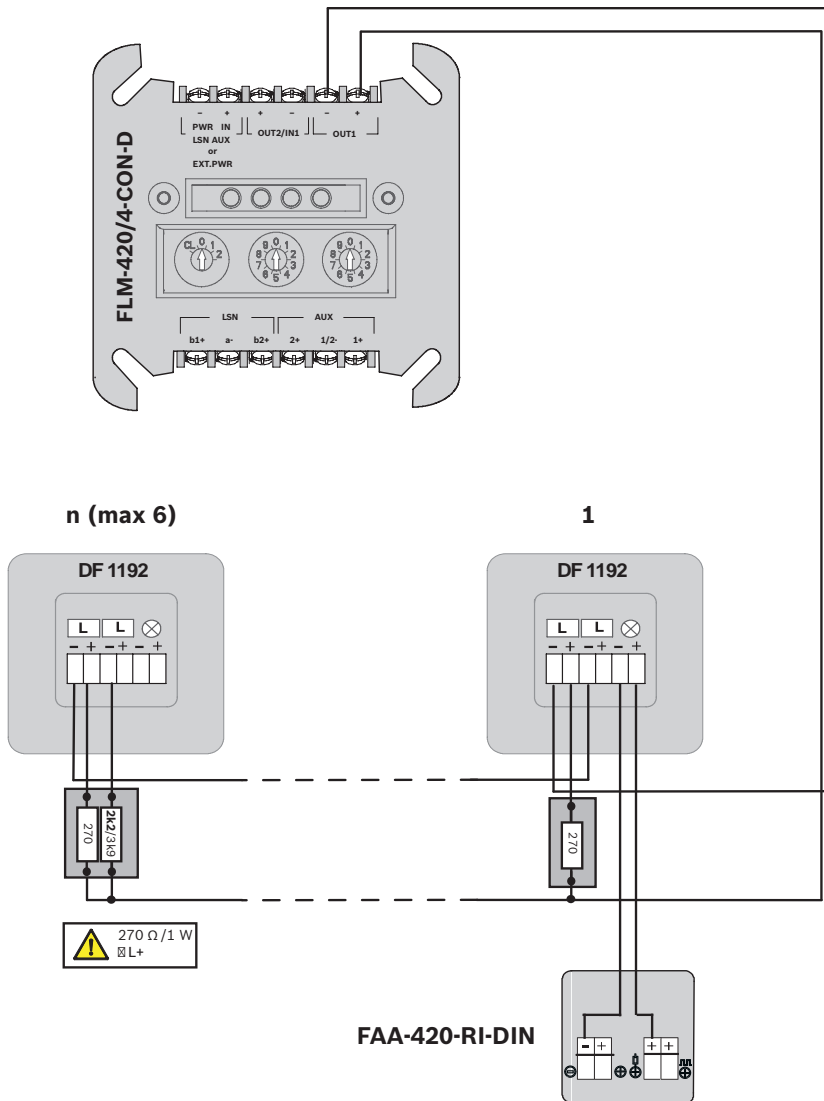


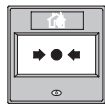
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



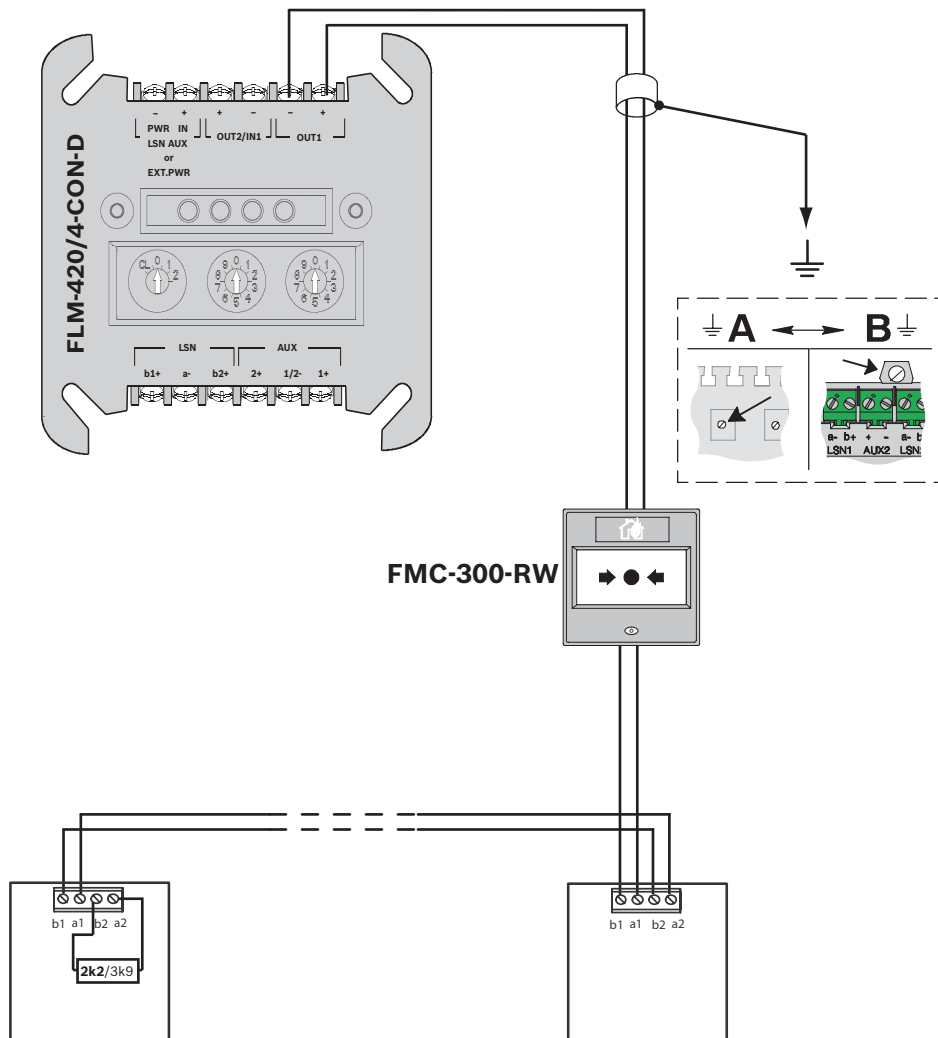
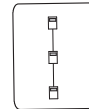


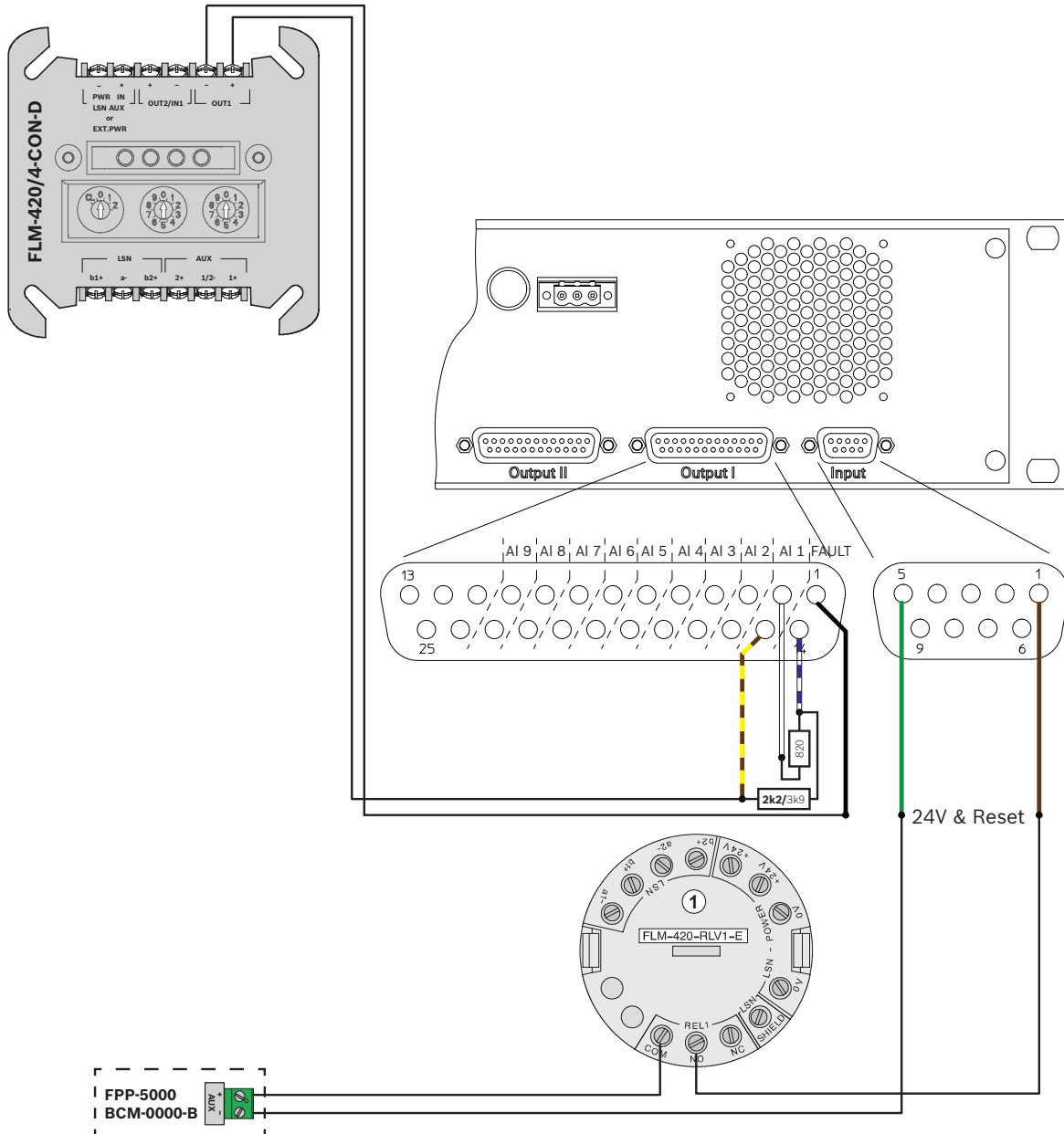
DF 1192

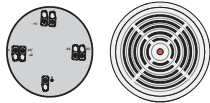




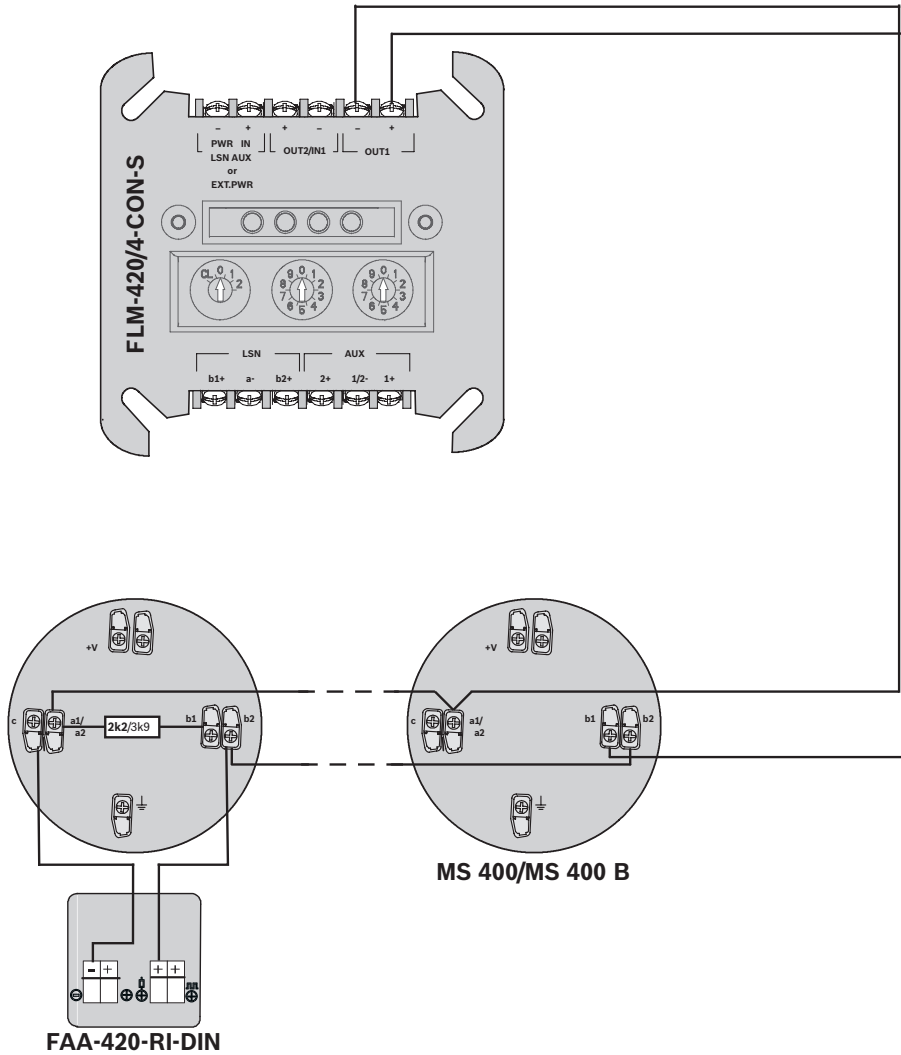
FMC-300-RW

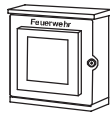
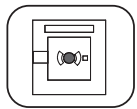




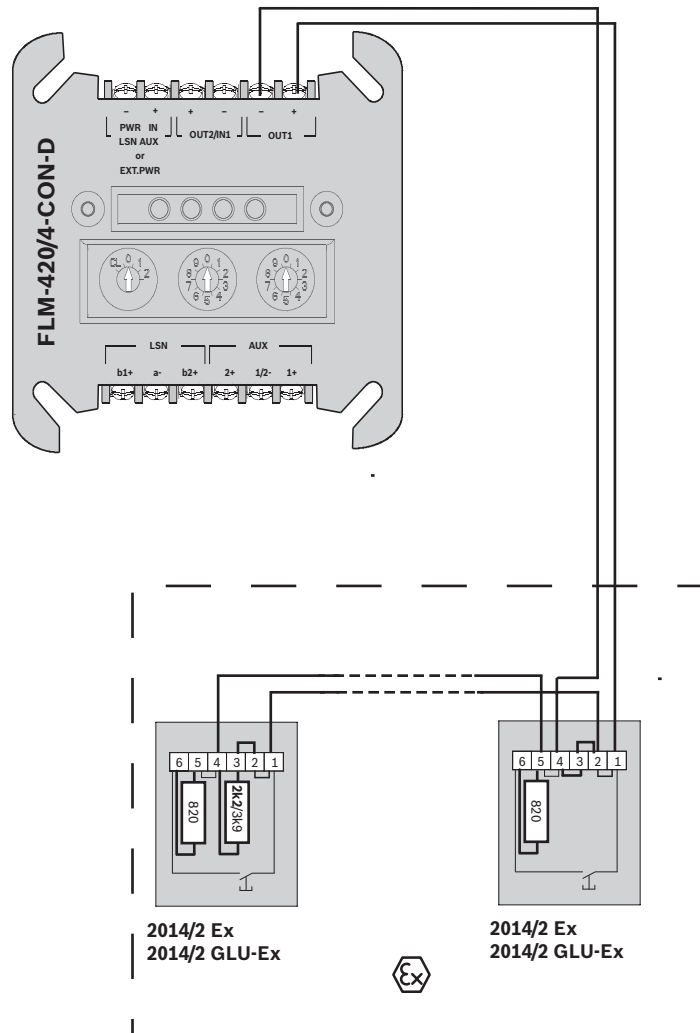
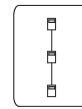


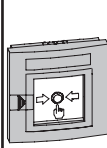
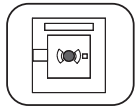
MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



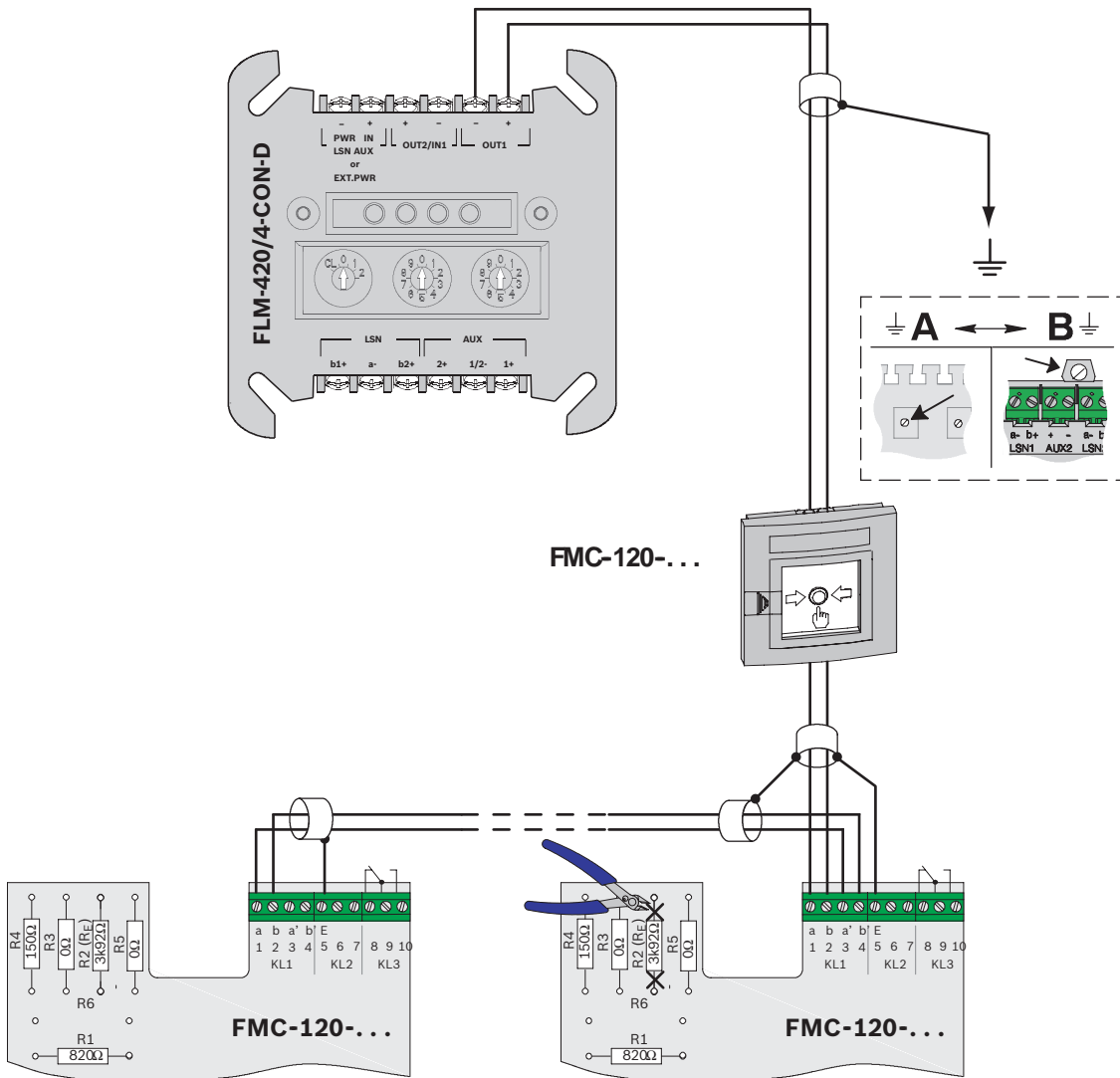
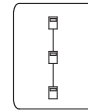


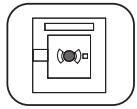
2014/2 Ex
2014/2 GLU-Ex



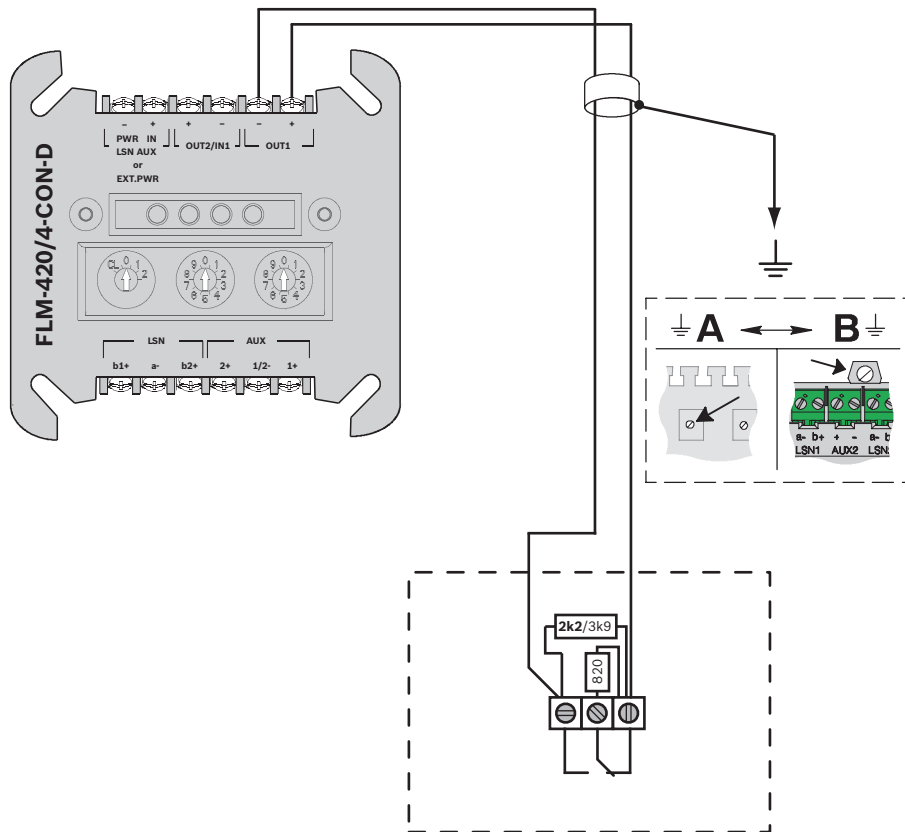
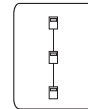


FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



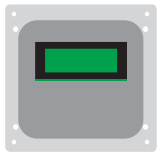


NO



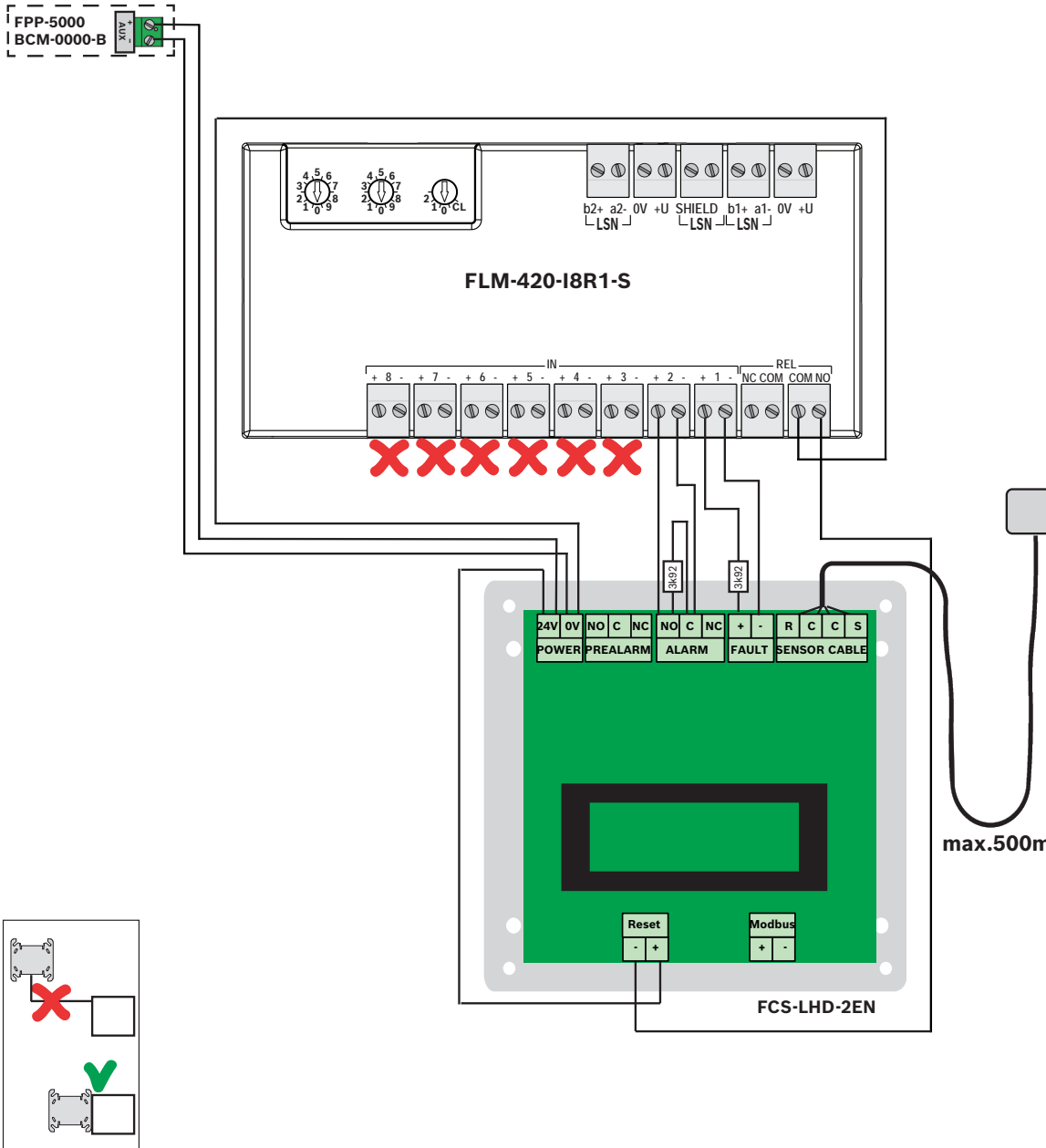
2.5.2

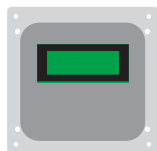
FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





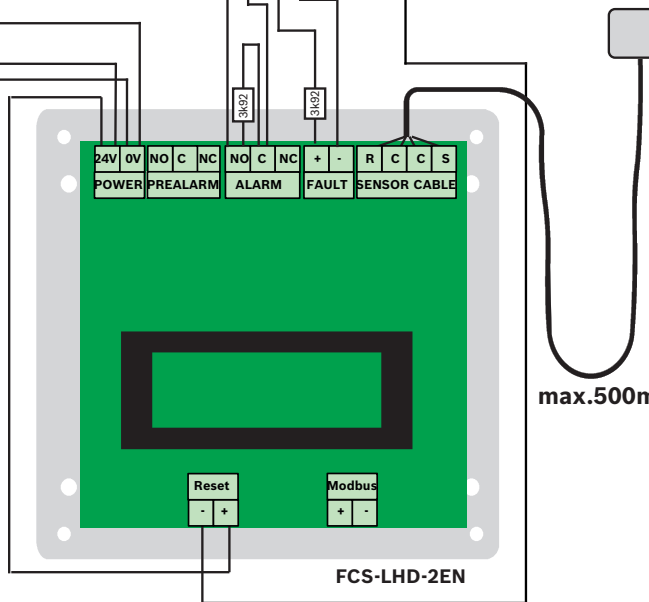
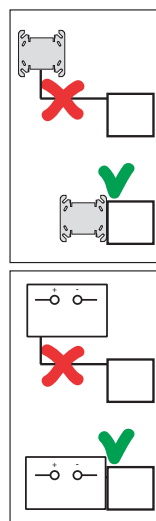
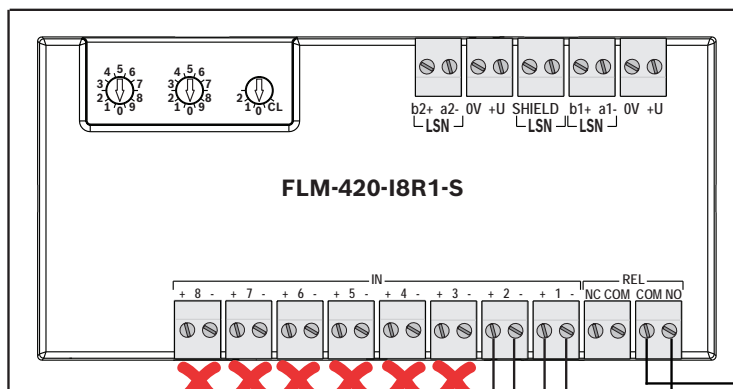
ProReact EN Analogue

FCS-LHD-2EN

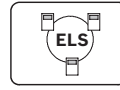


ELS

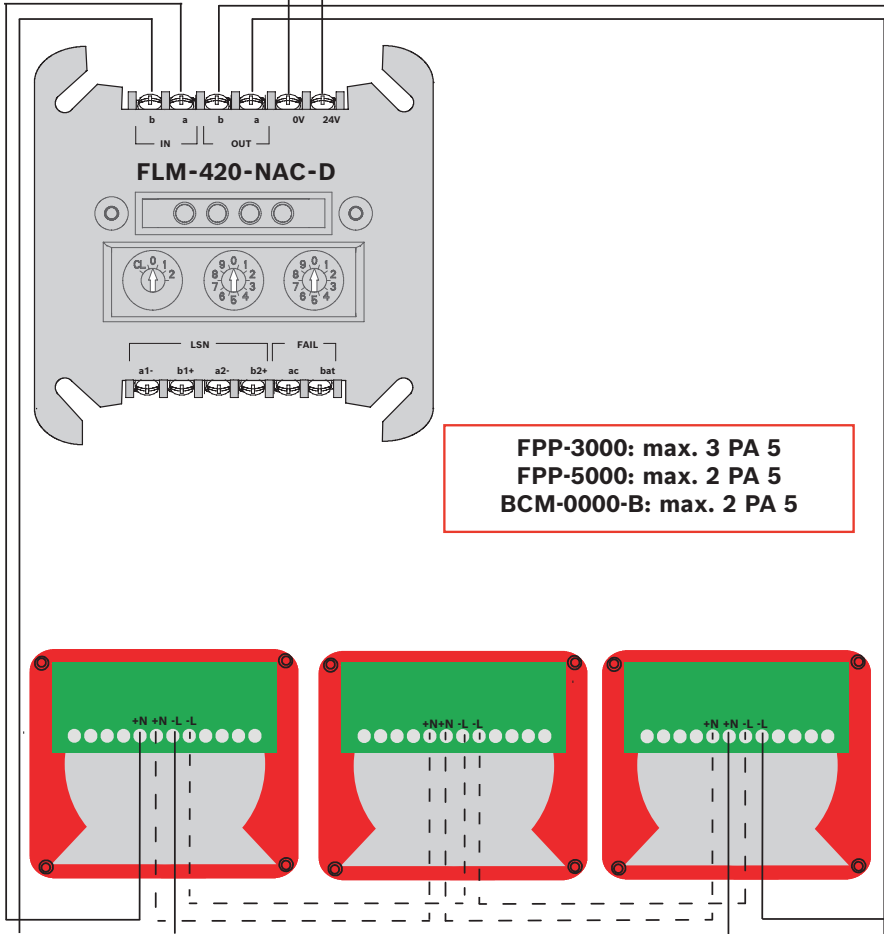
FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B



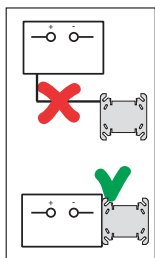
2.5.3 FLM-420-NAC-D/S



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

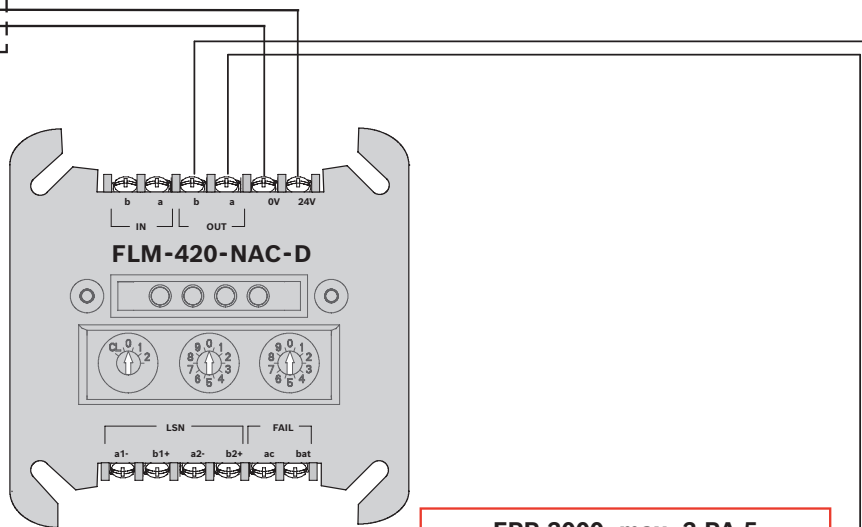


FPP-3000: max. 3 PA 5
FPP-5000: max. 2 PA 5
BCM-0000-B: max. 2 PA 5

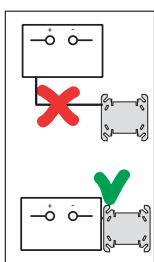
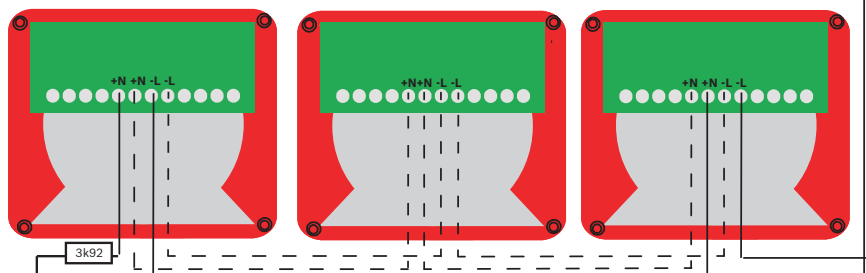


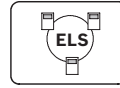


FPP-3000
FPP-5000
BCM-0000-B

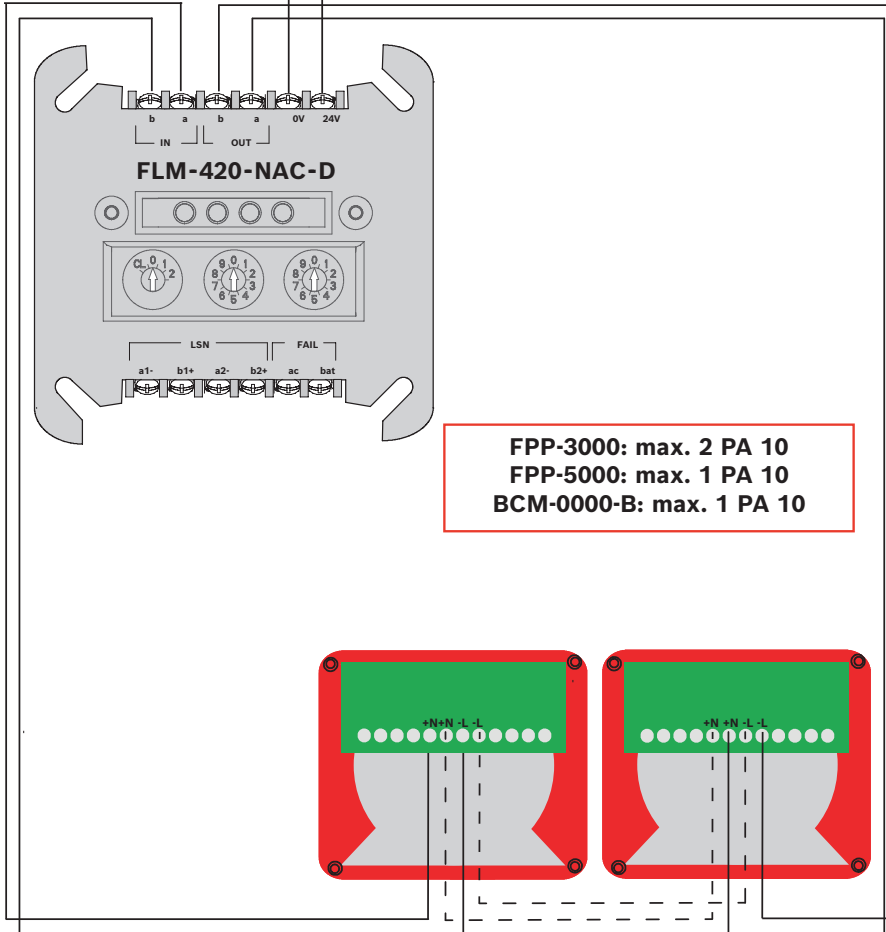


FPP-3000: max. 3 PA 5
FPP-5000: max. 2 PA 5
BCM-0000-B: max. 2 PA 5

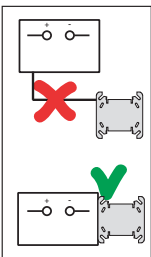




FPP-3000(ZSP135-DR)
 FPP-5000
 BCM-0000-B

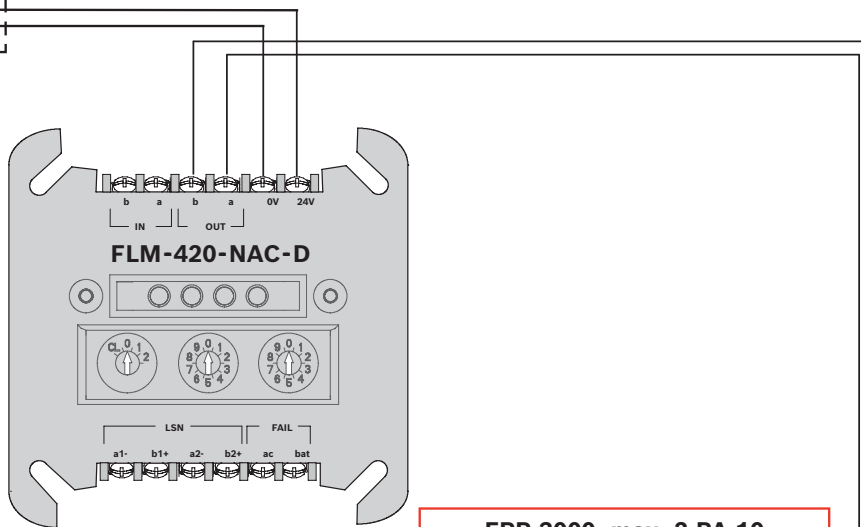


FPP-3000: max. 2 PA 10
FPP-5000: max. 1 PA 10
BCM-0000-B: max. 1 PA 10

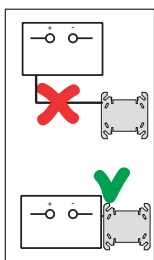
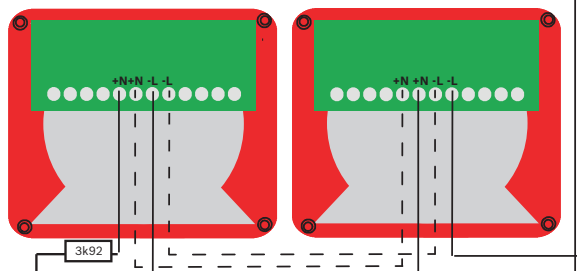


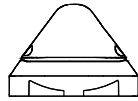


FPP-3000
FPP-5000
BCM-0000-B

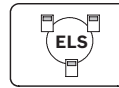


FPP-3000: max. 2 PA 10
FPP-5000: max. 1 PA 10
BCM-0000-B: max. 1 PA 10

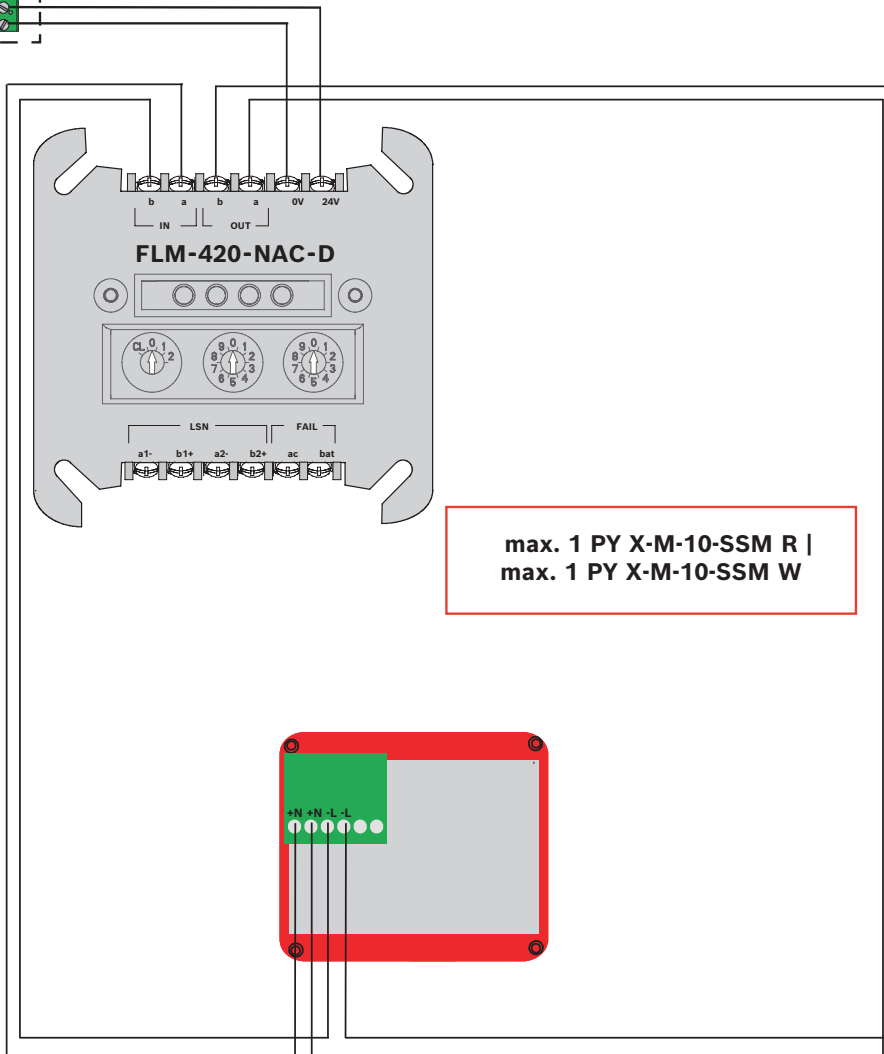




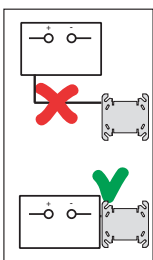
PY X-M-10-SSM R
PY X-M-10-SSM W

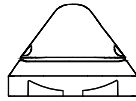


FPP-3000(ZSP-135-DR)
FPP-5000
BCM-0000-B



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

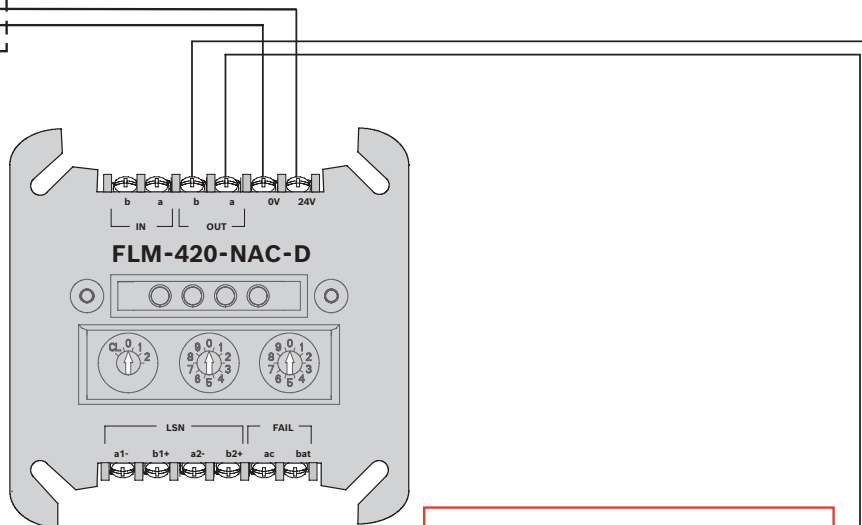




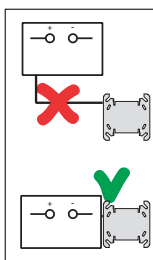
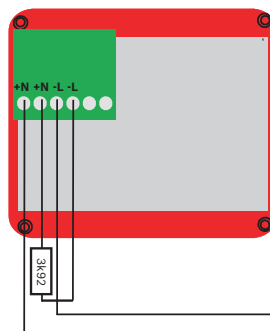
PY X-M-10-SSM R
PY X-M-10-SSM W



FPP-3000
 FPP-5000
 BCM-0000-B

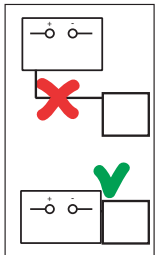
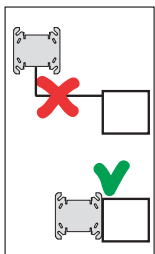
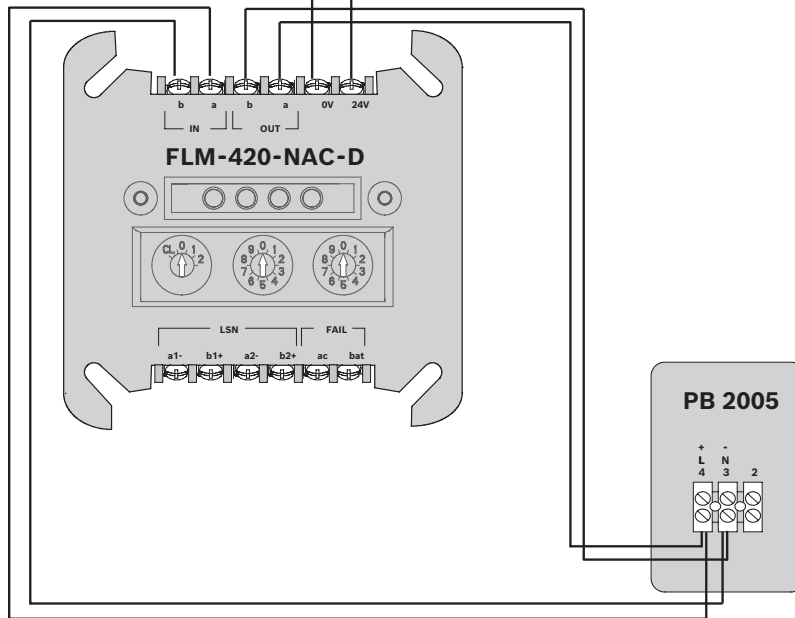
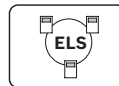


max. 1 PY X-M-10-SSM R |
max. 1 PY X-M-10-SSM W



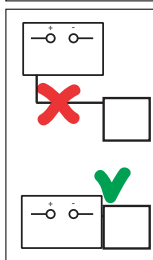
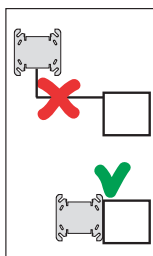
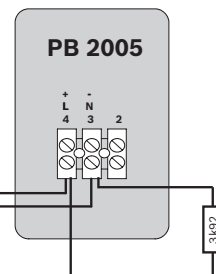
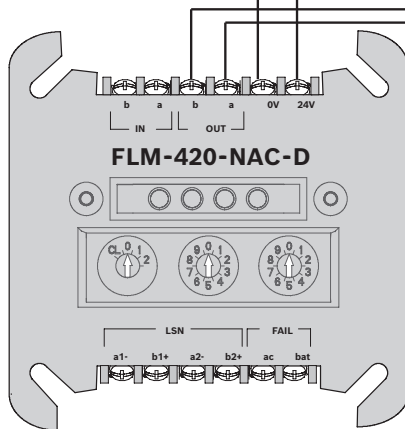


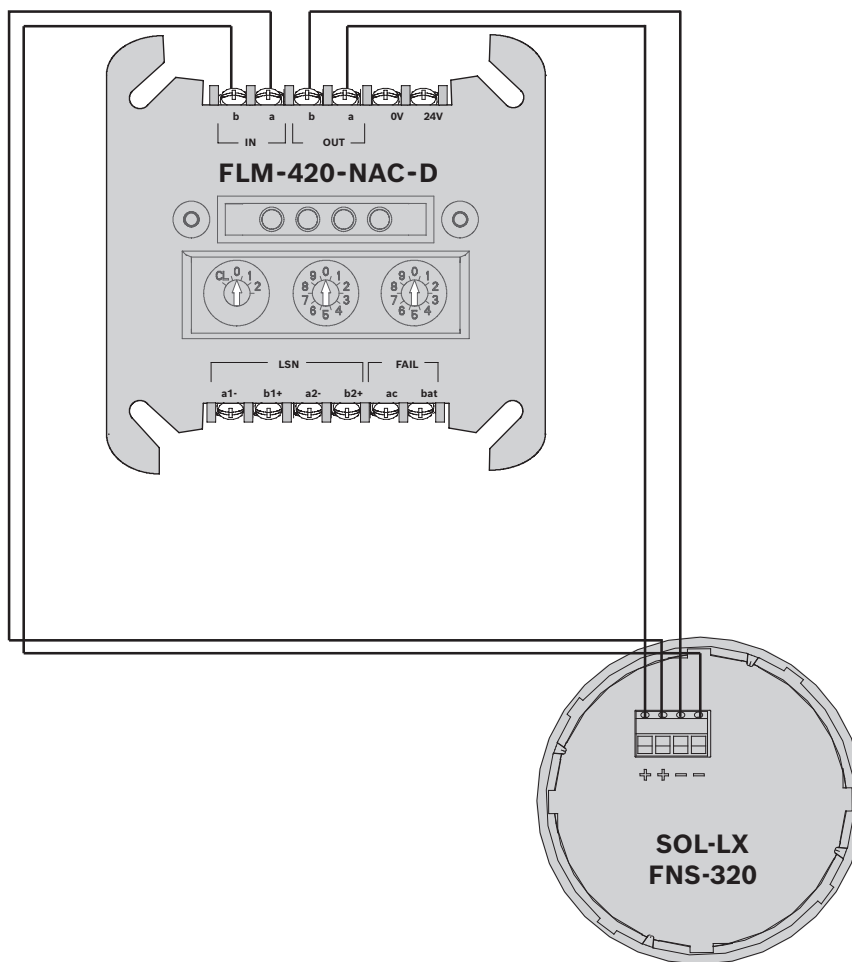
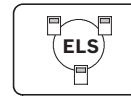
PB 2005

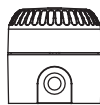




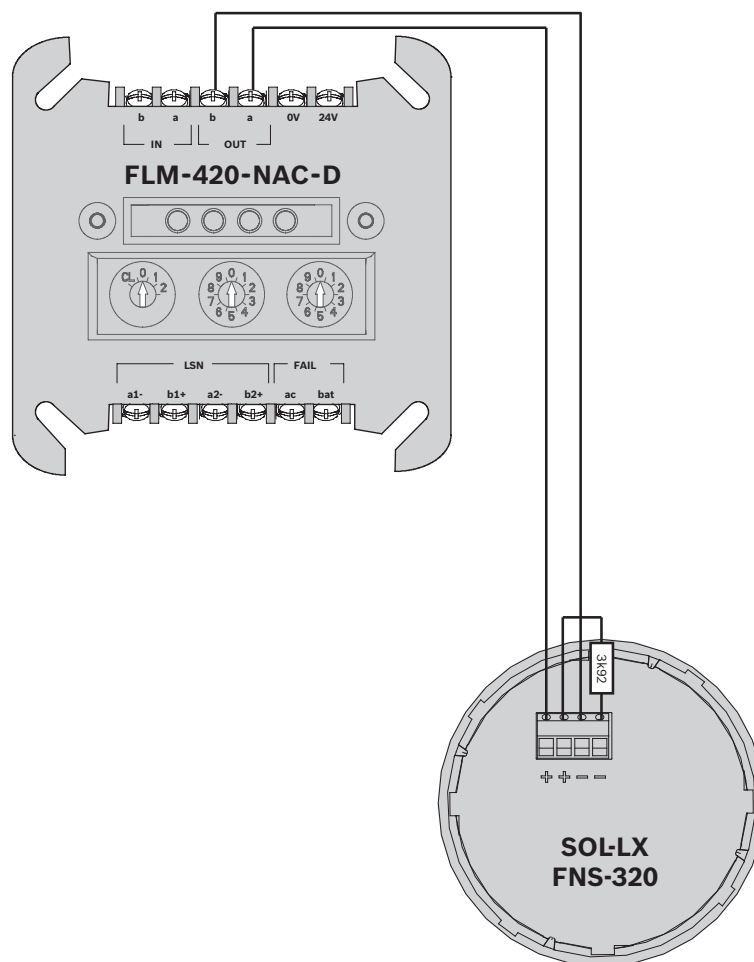
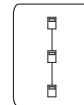
PB 2005

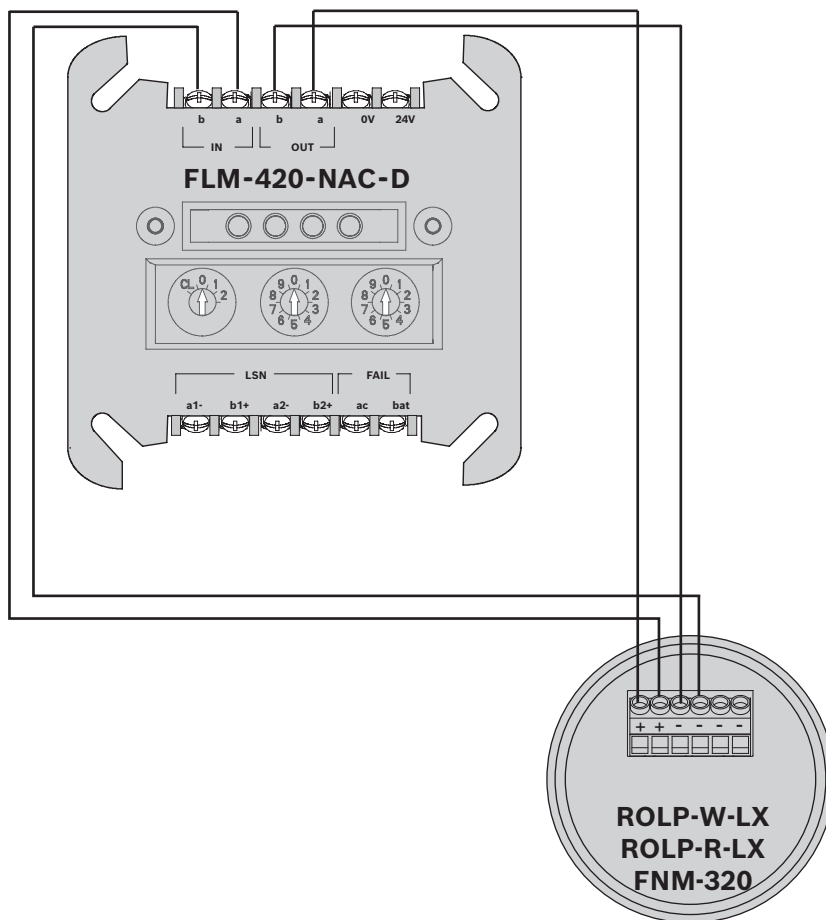
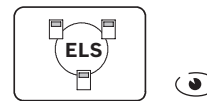


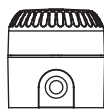




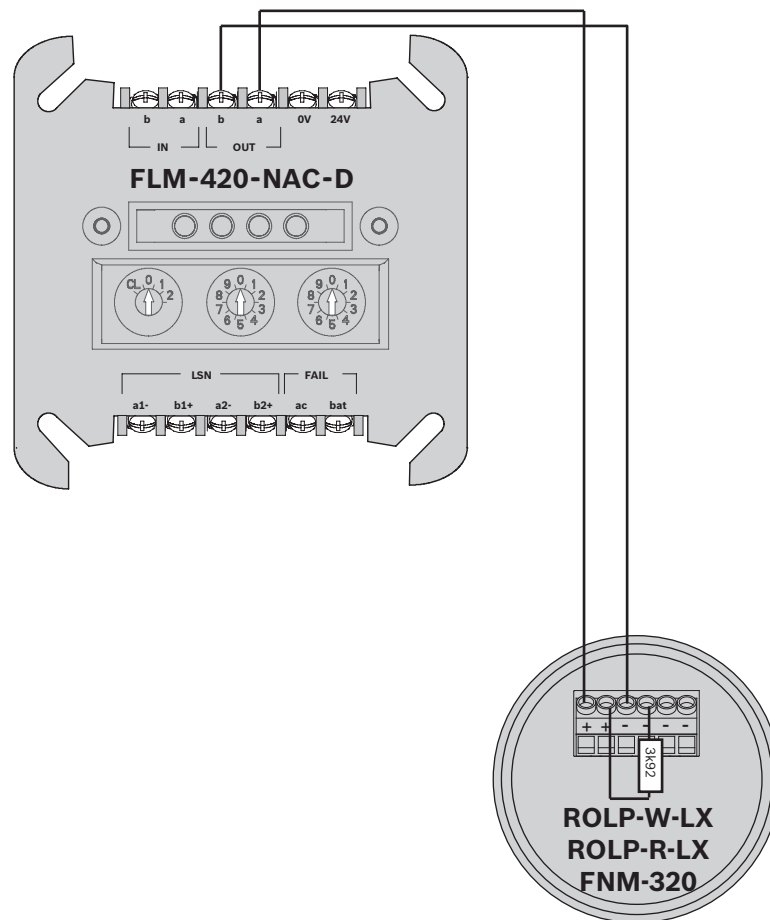
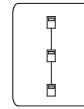
**SOL-LX
FNS-320**







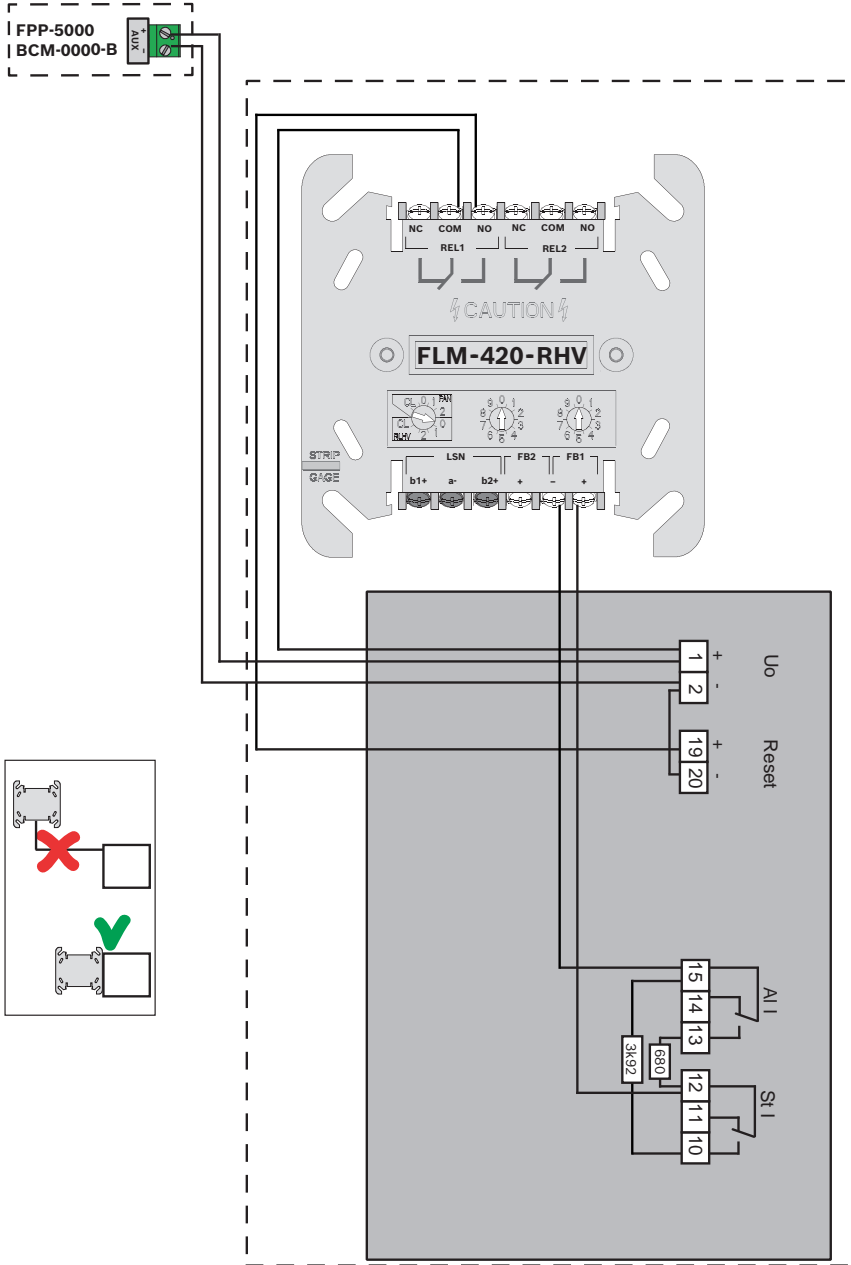
ROLP-W-LX
ROLP-R-LX
FNM-320



2.5.4 FLM-420-RHV

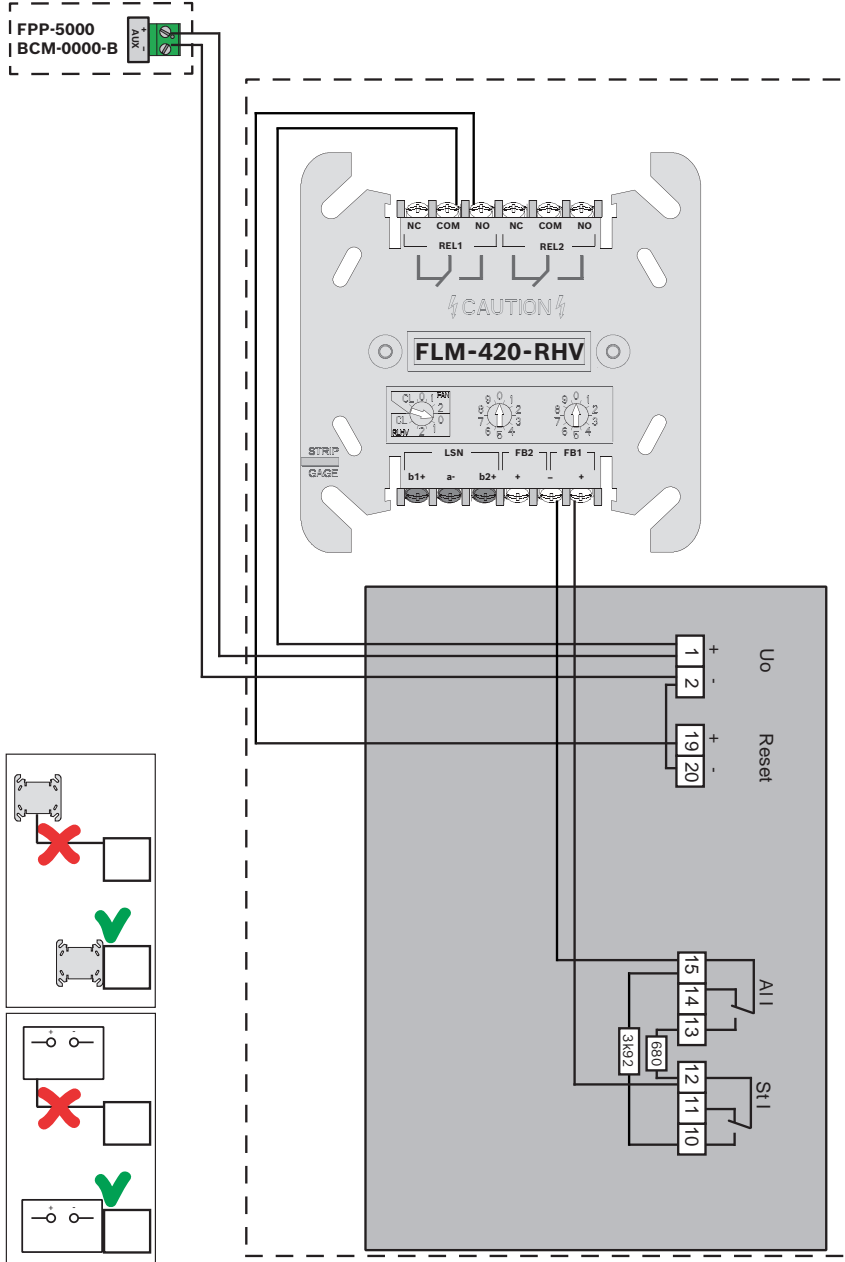


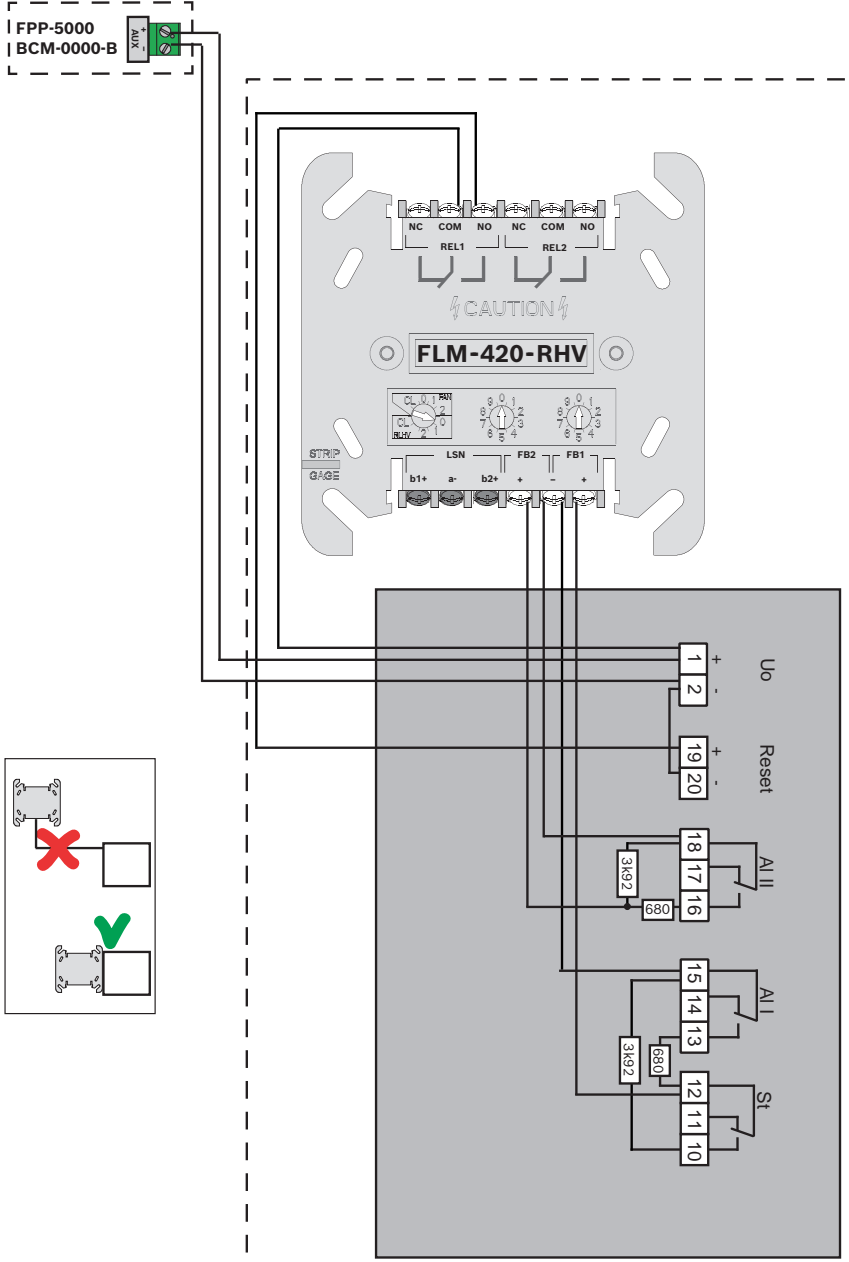
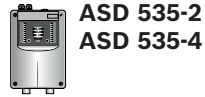
ASD 535-1
ASD 535-3





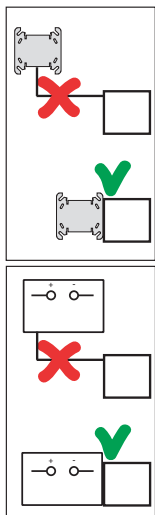
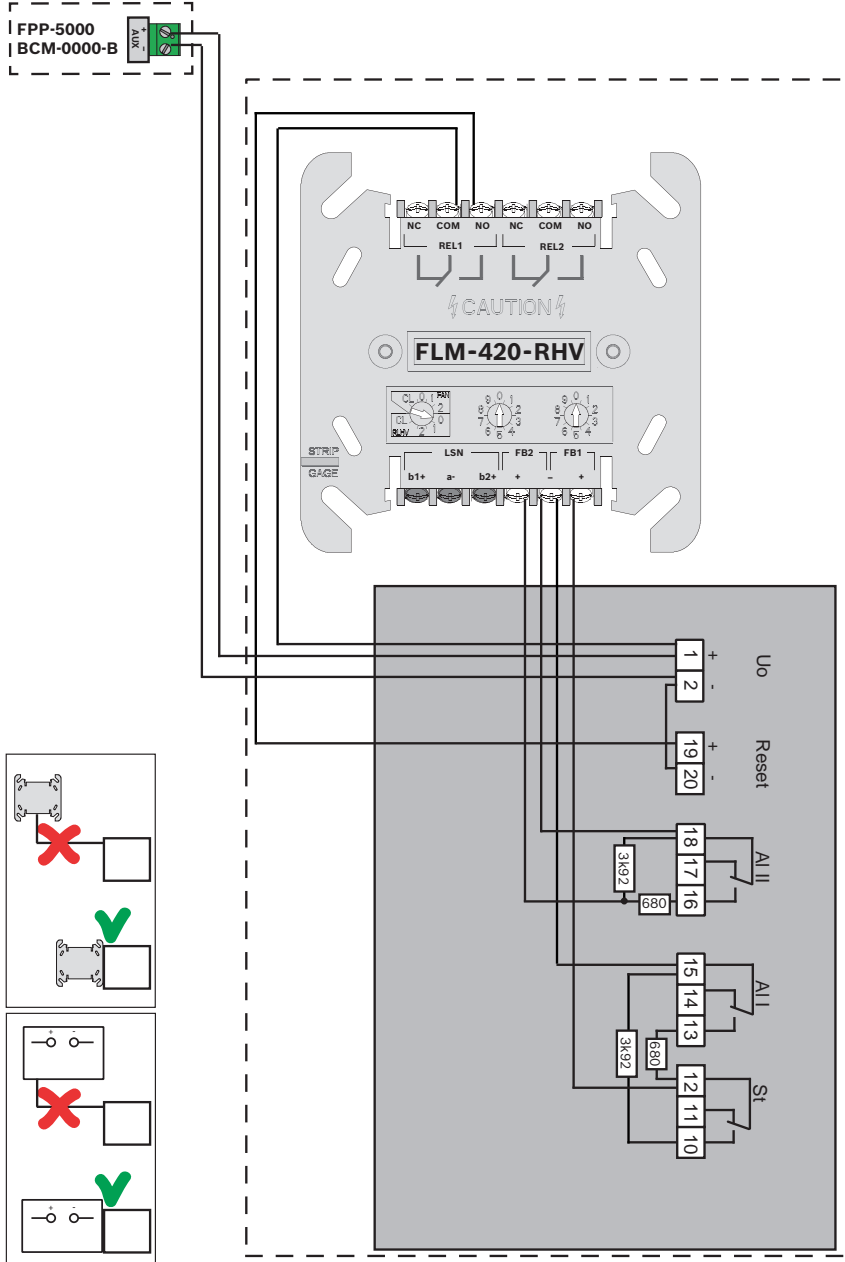
ELS

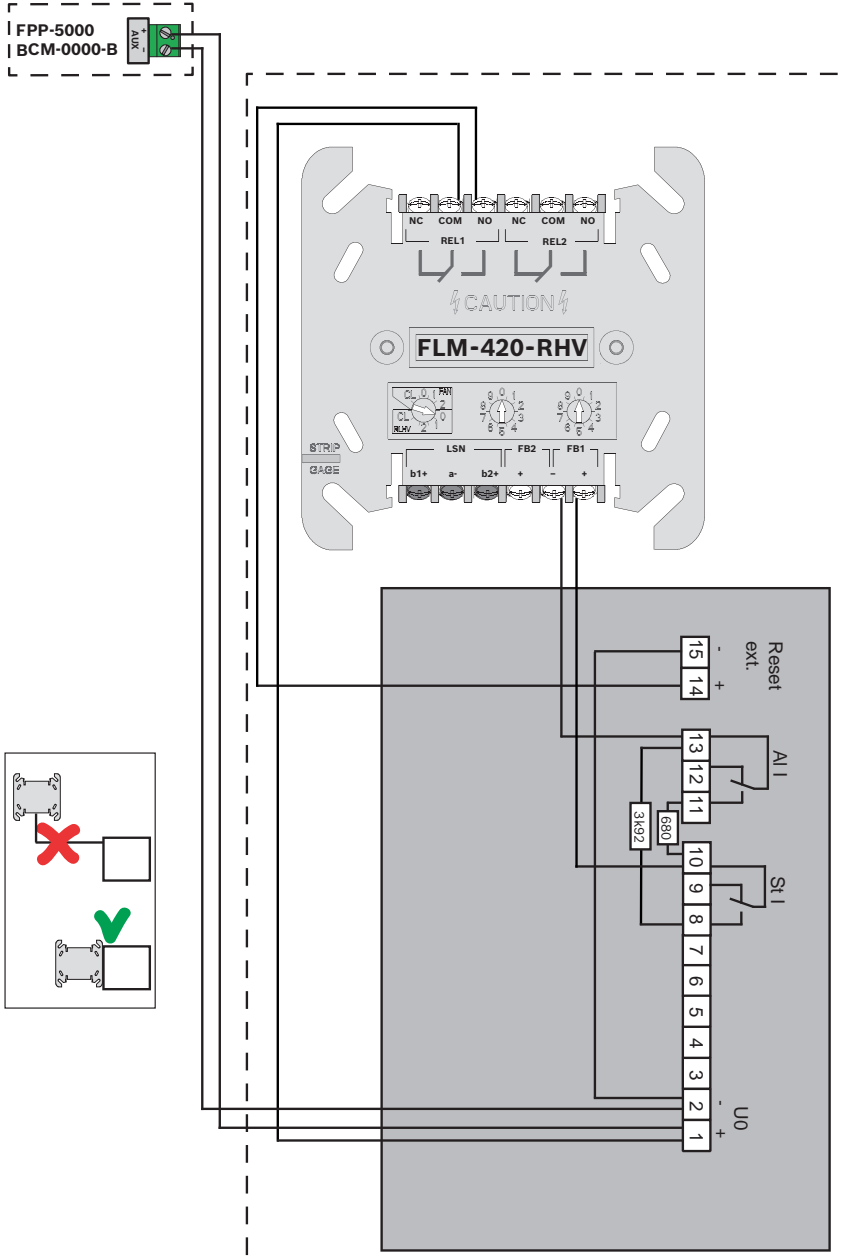






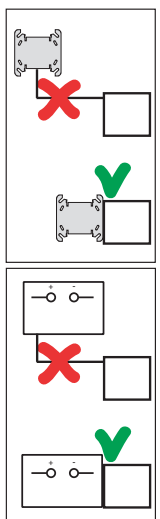
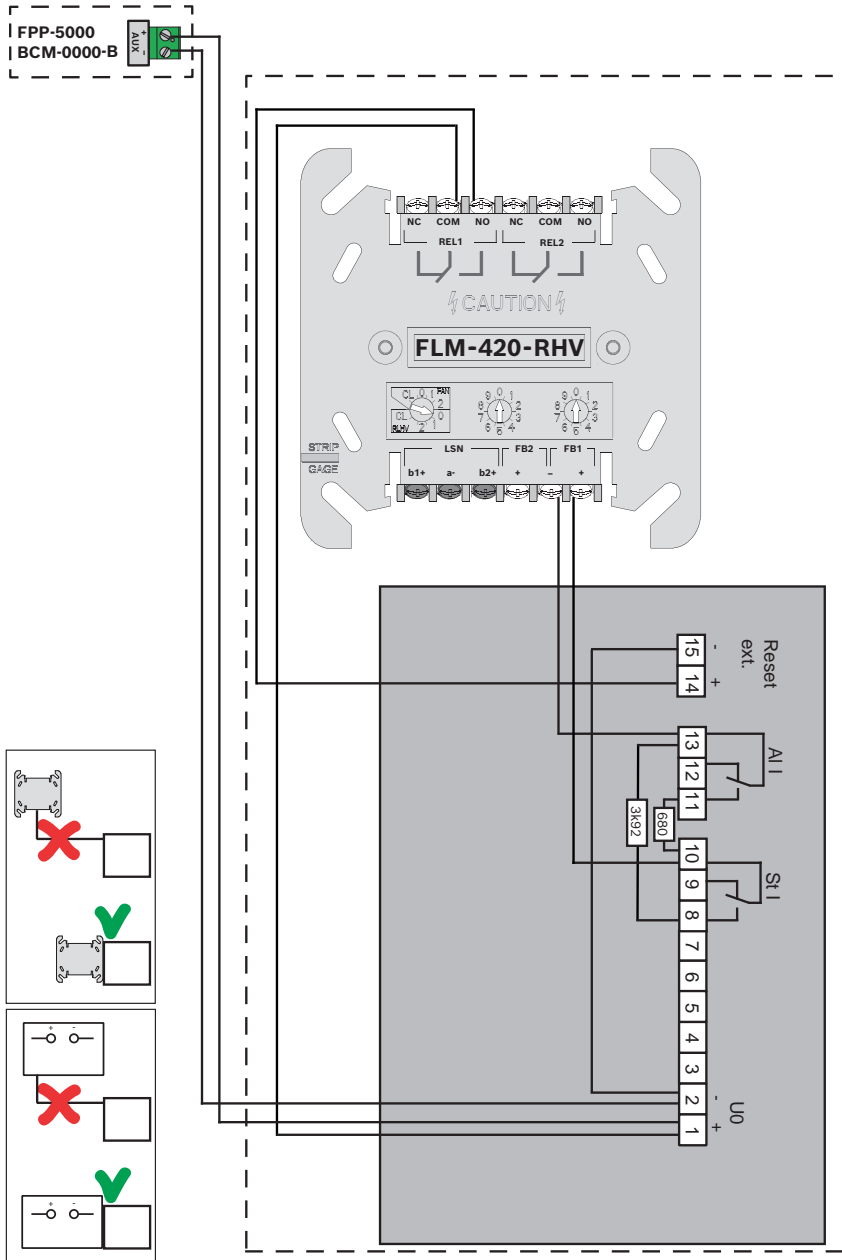
ELS





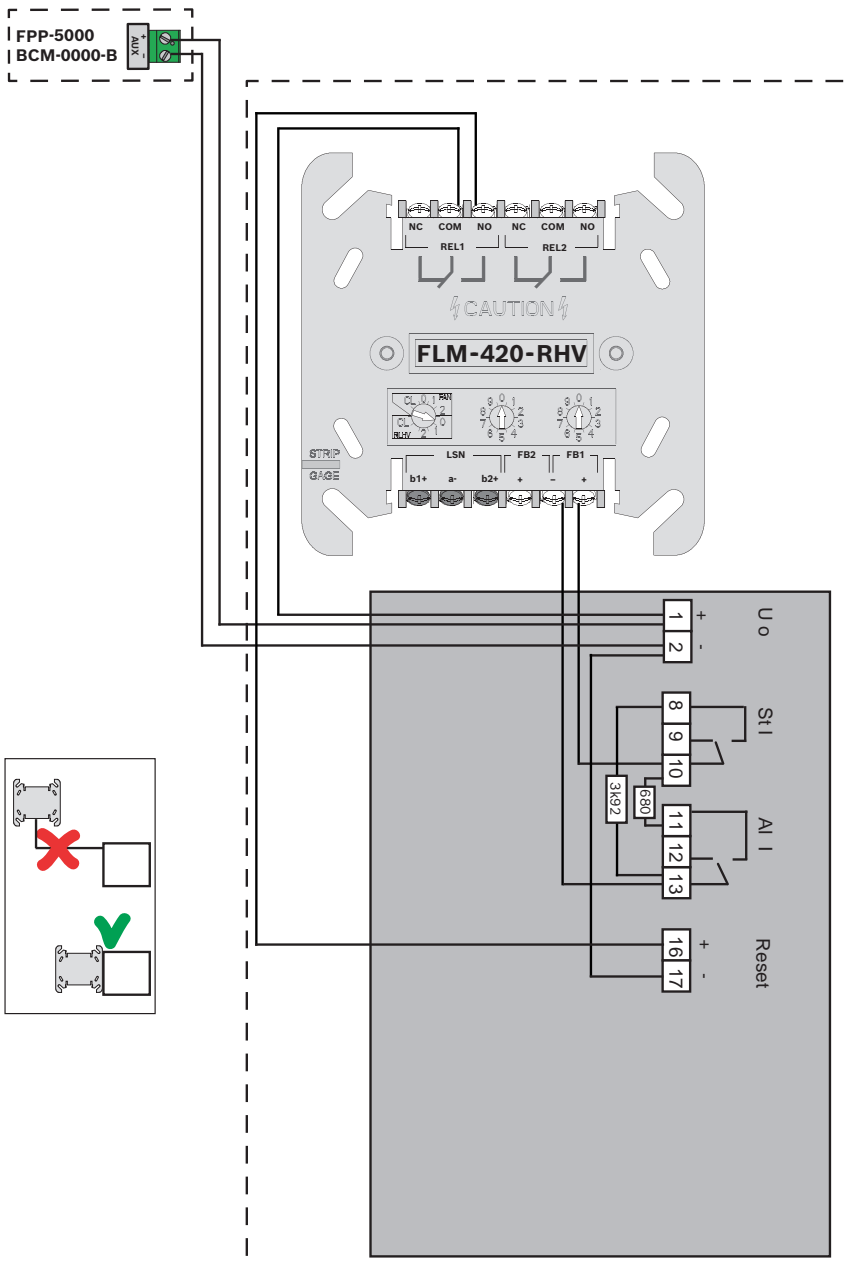


ELS





ADW 535-1

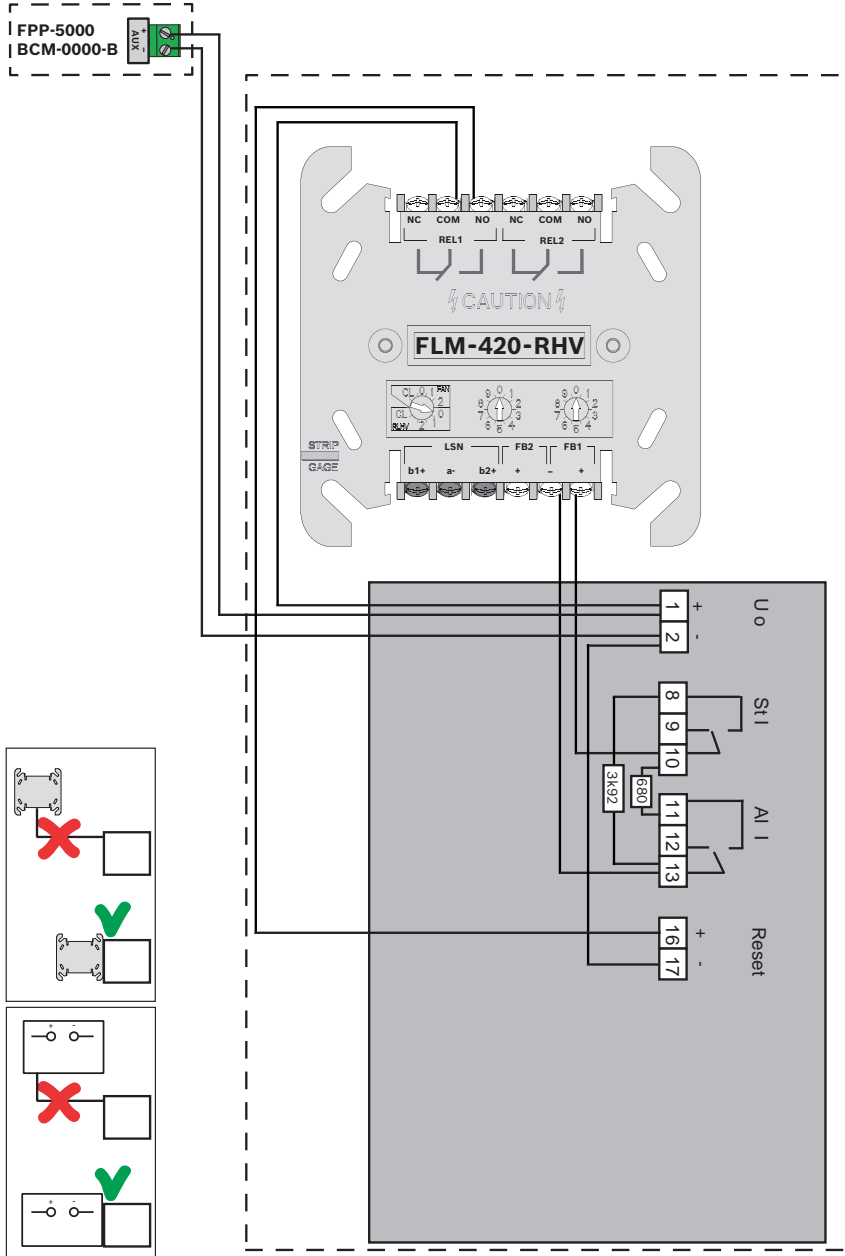




ADW 535-1

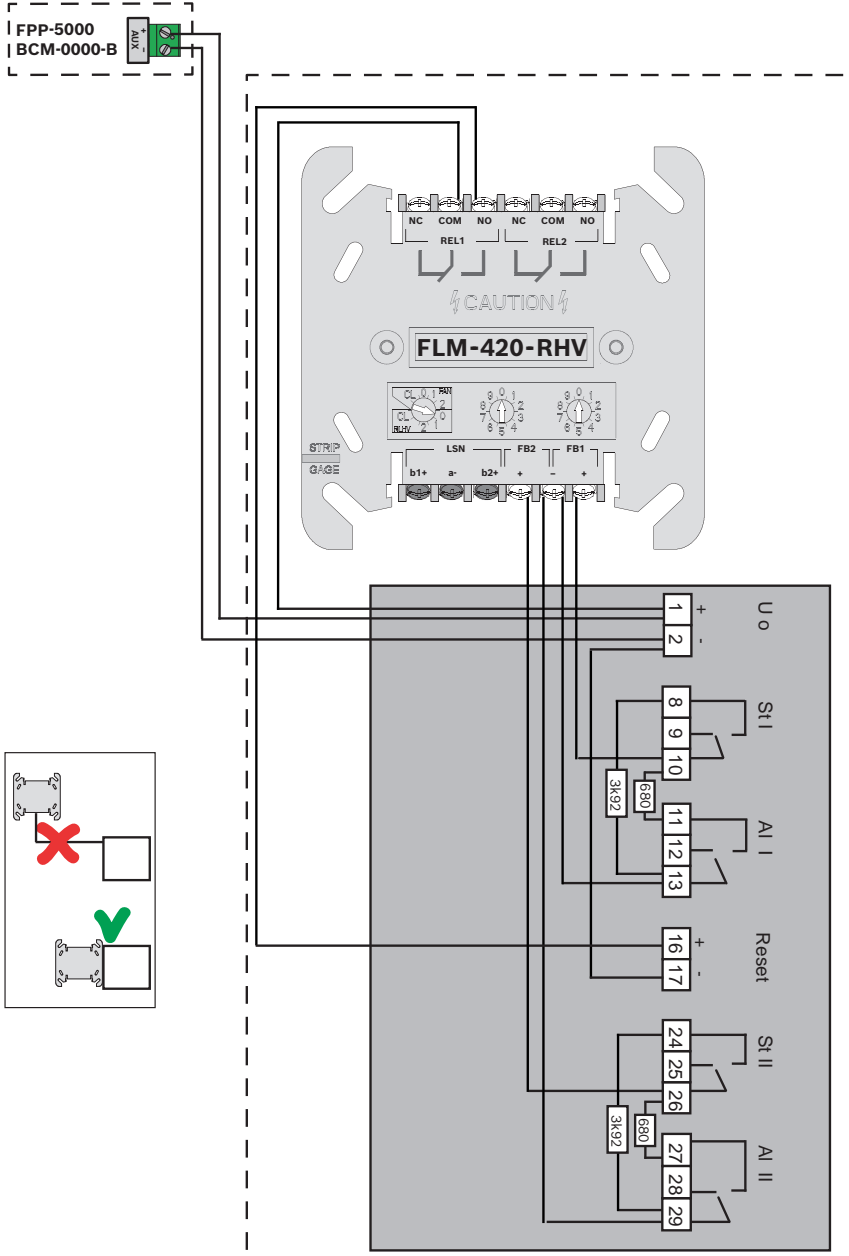


ELS





ADW 535-2

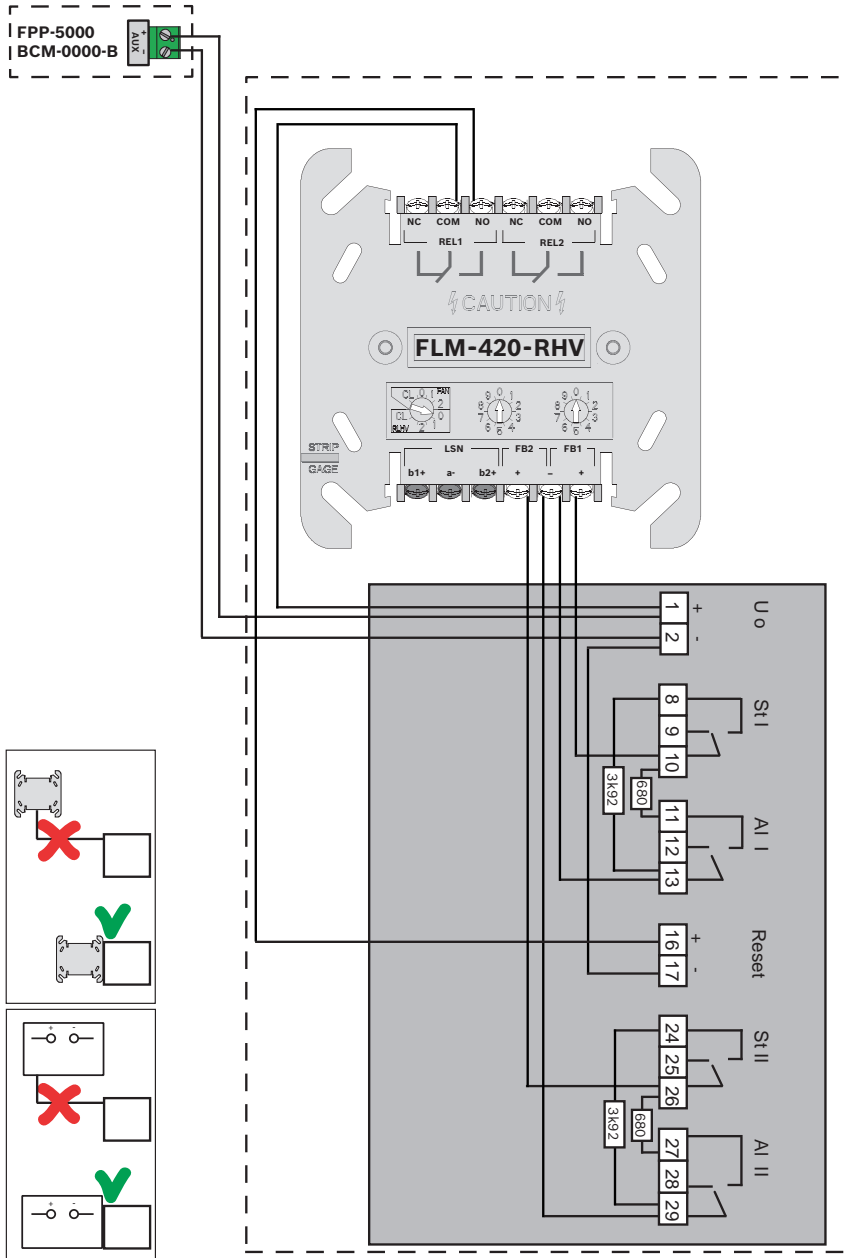




ADW 535-2

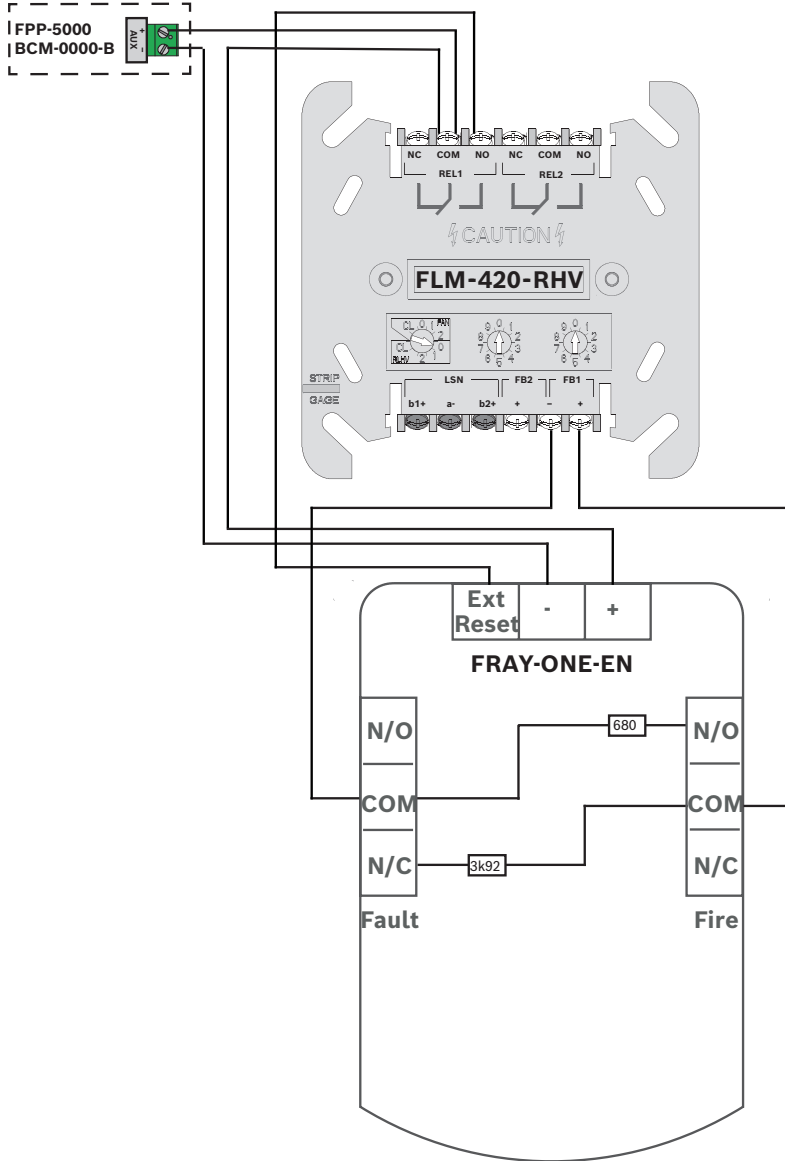


ELS





Fireray One

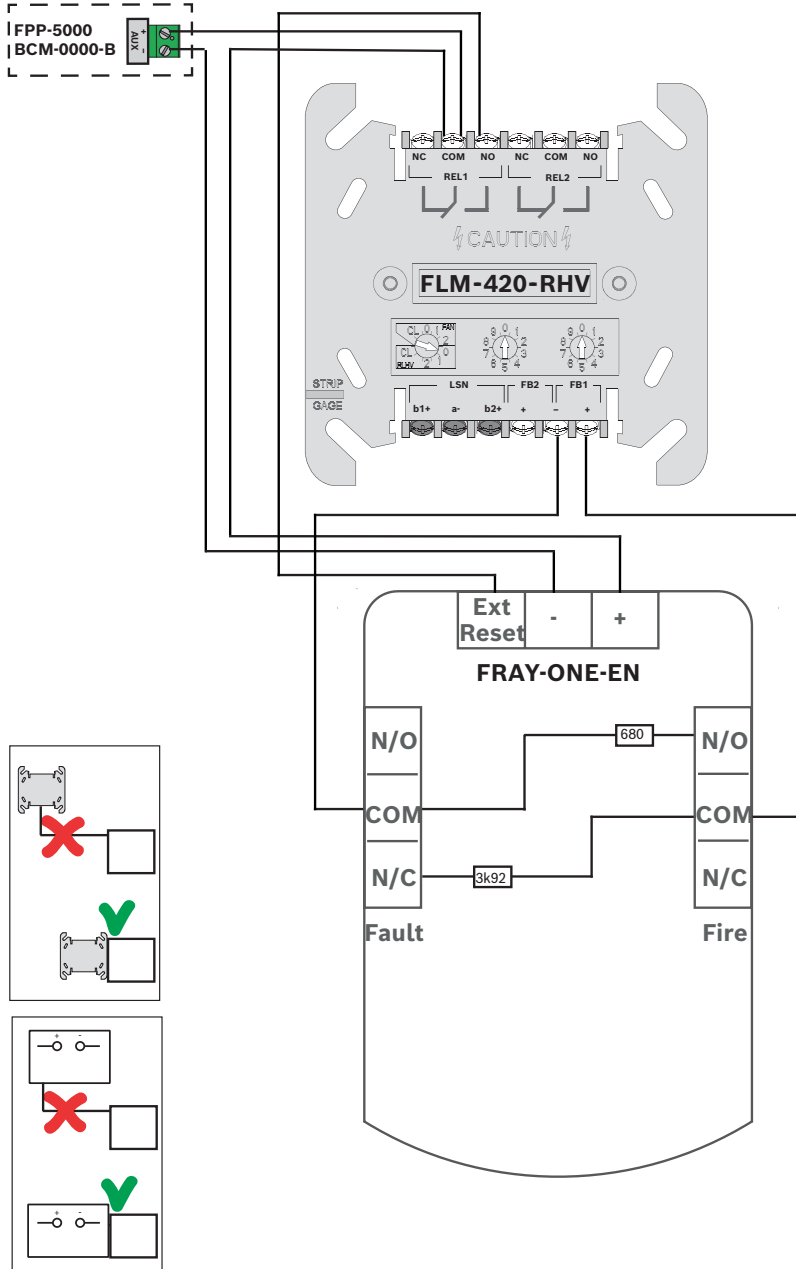




Fireray One



ELS

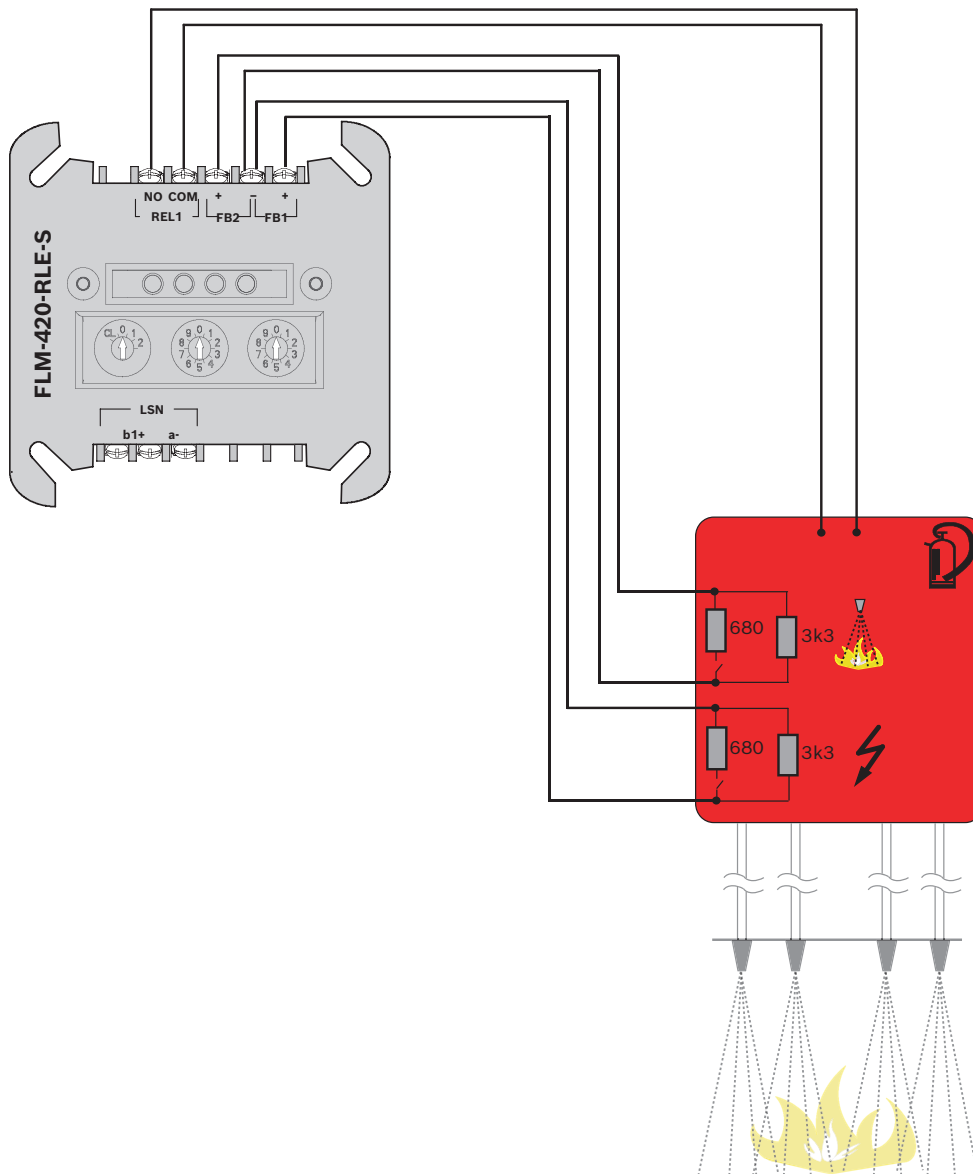


2.5.5

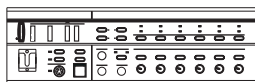
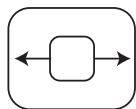
FLM-420-RLE-S



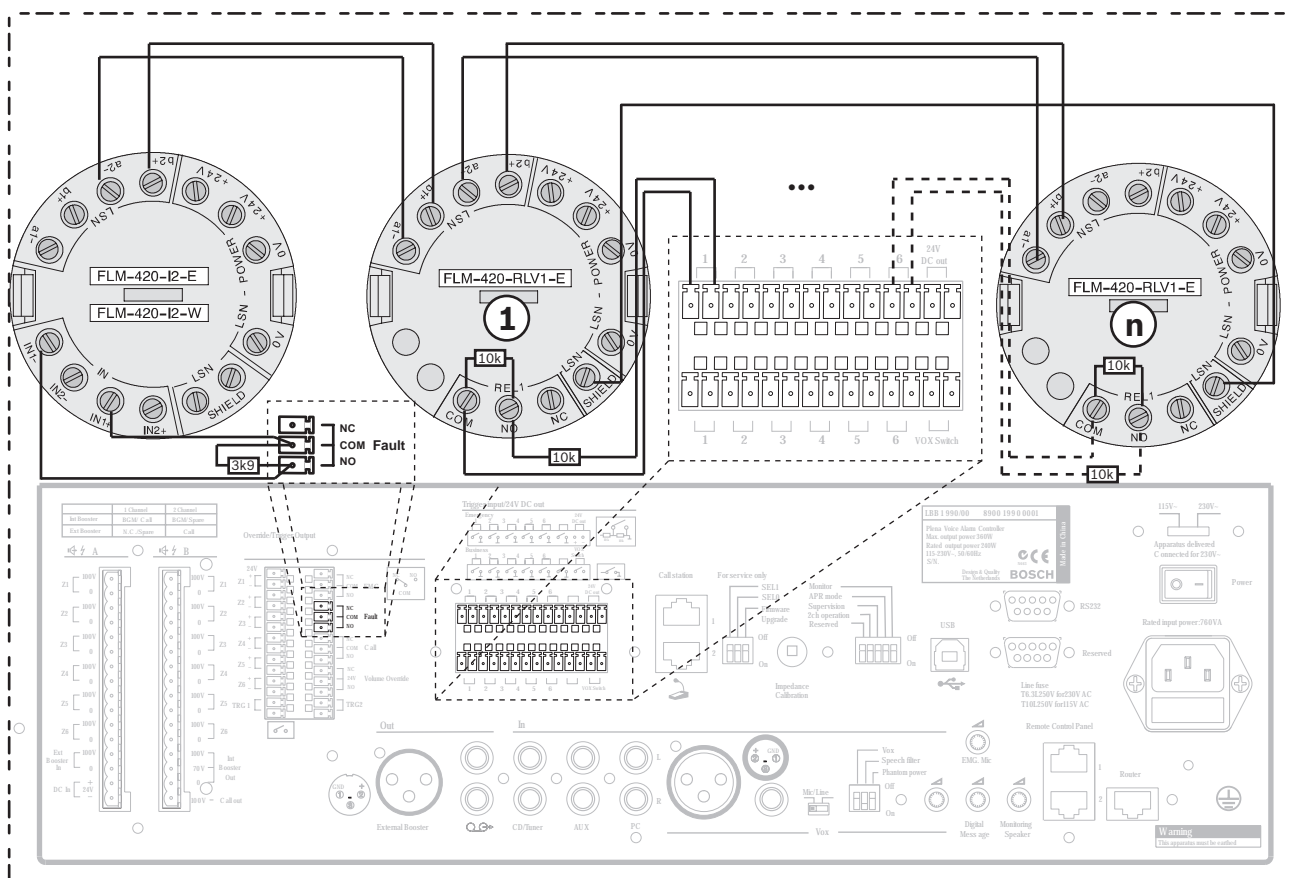
VdS 2496



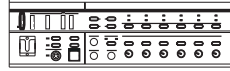
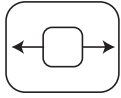
2.5.6 FLM-420-RLV1-E



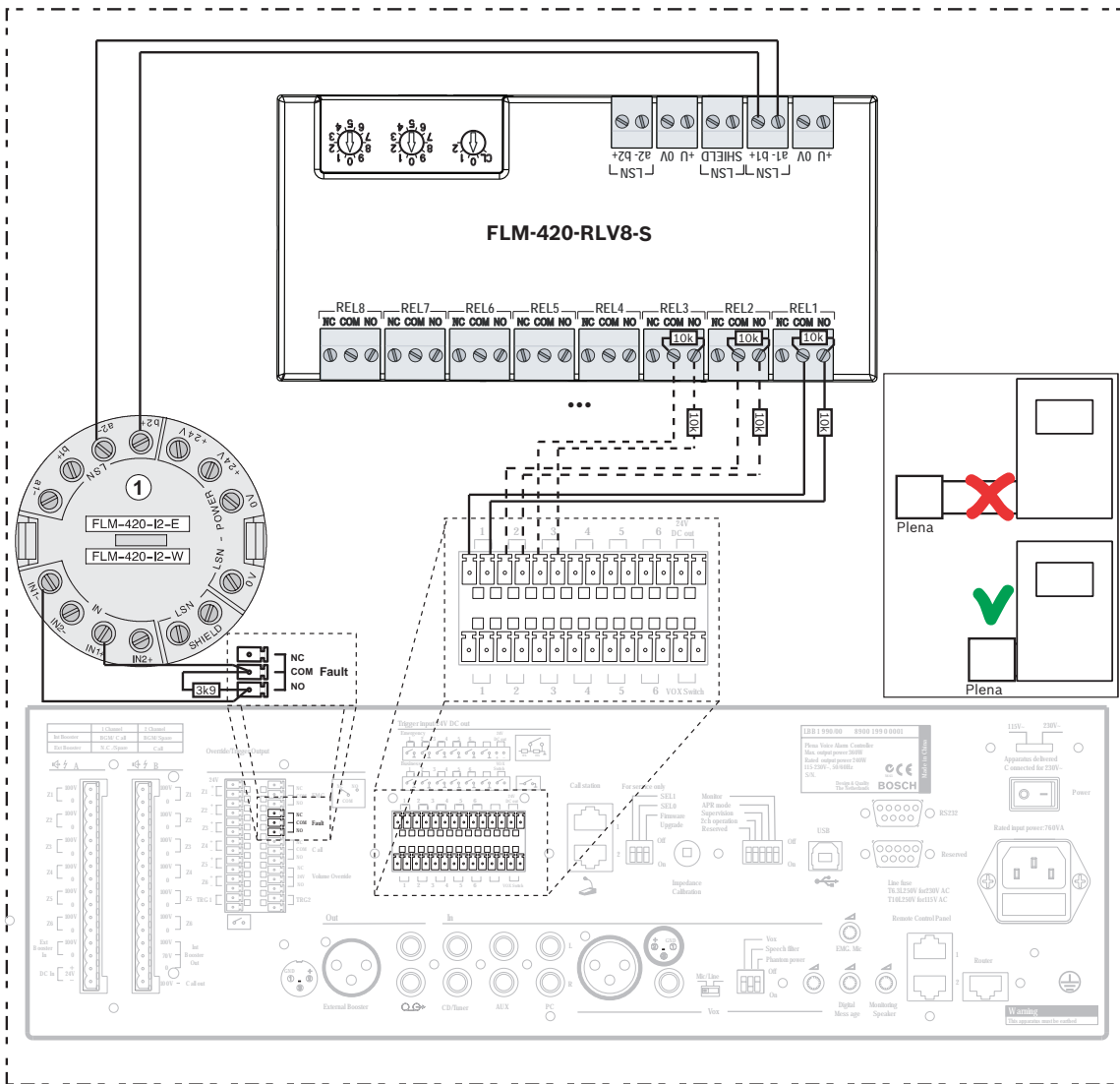
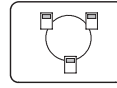
Plena



2.5.7 FLM-420-RLV8-S



Plena



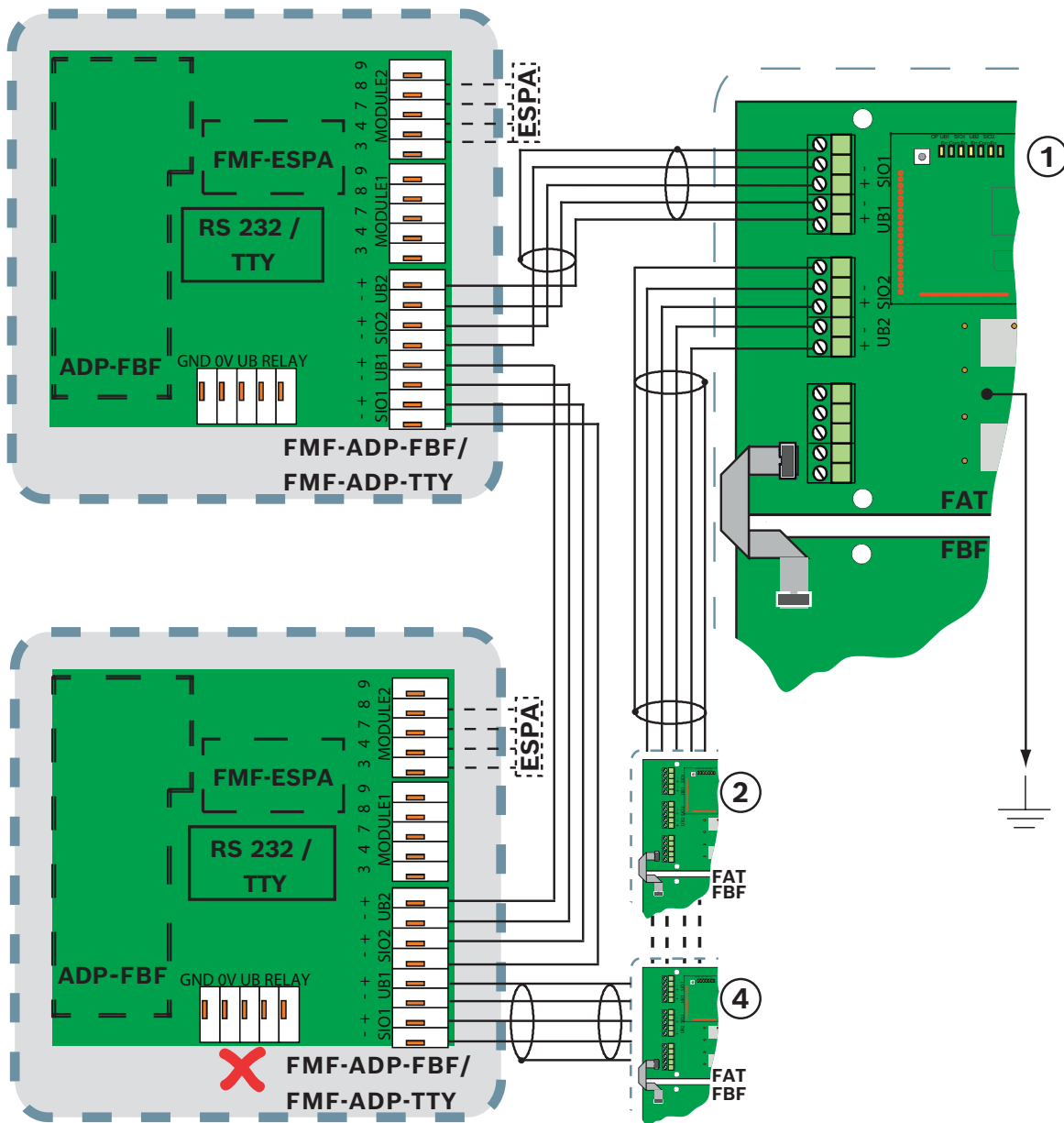
2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS



2.6

EOL



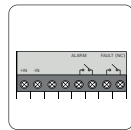
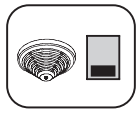
CZM 0004 A, Страница 189

LSN 0300 A, Страница 201

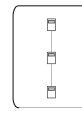
FLM-420/4-CON-S/D, Страница 246

2.6.1

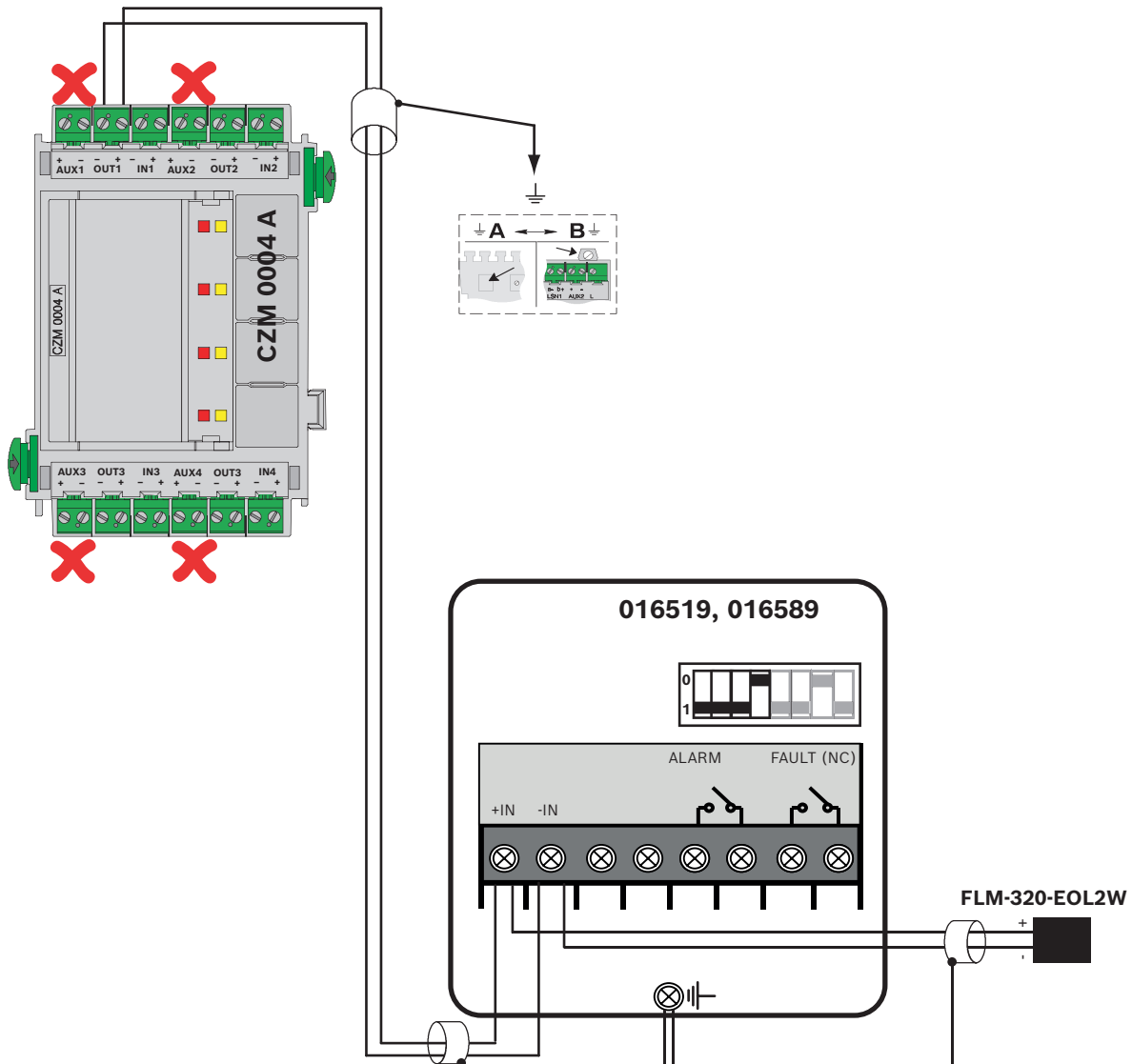
CZM 0004 A

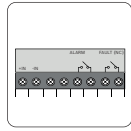


016519, 016589
IR3 Flame Detector

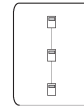


ELS

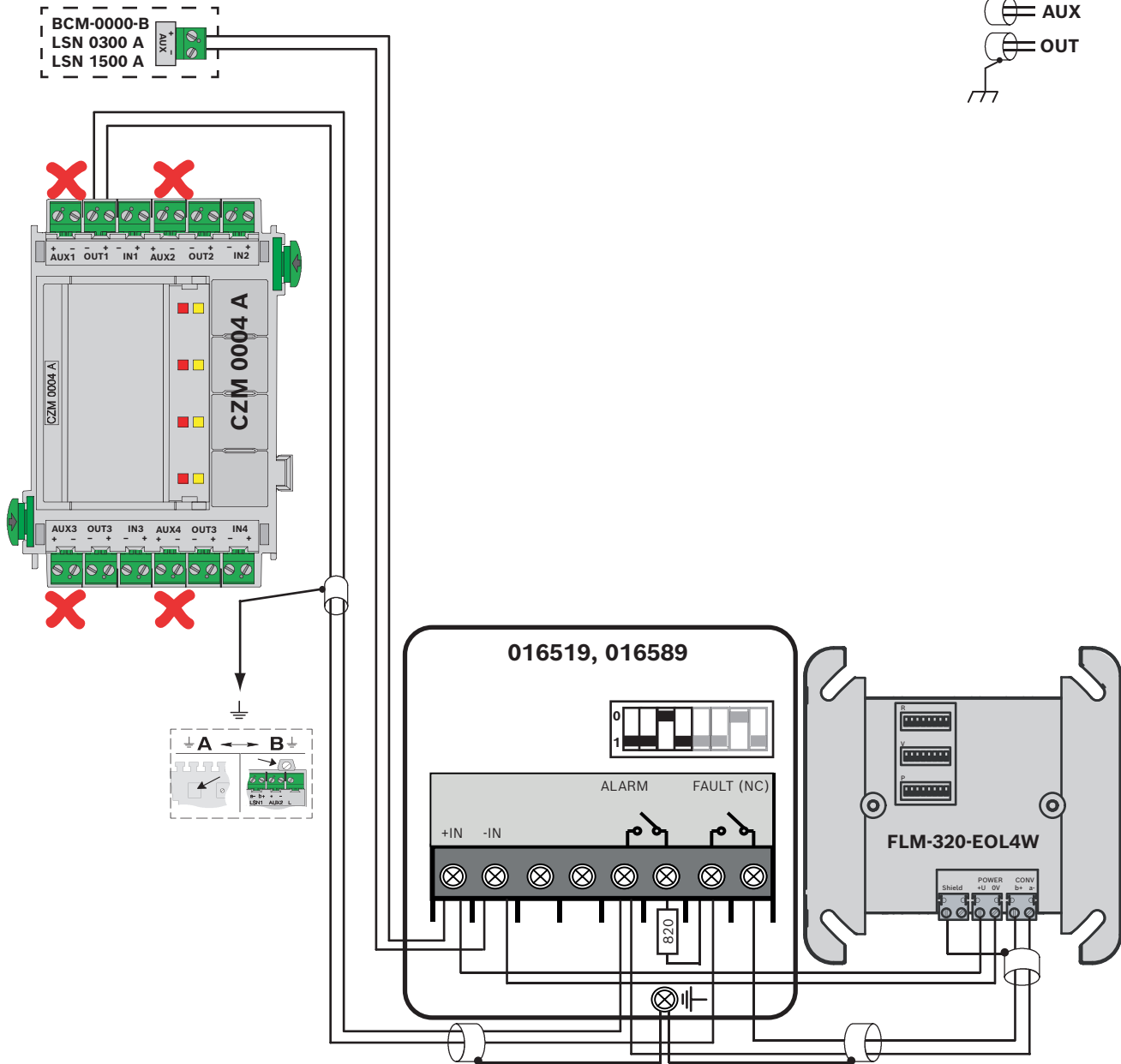




016519, 016589
IR3 Flame Detector



ELS

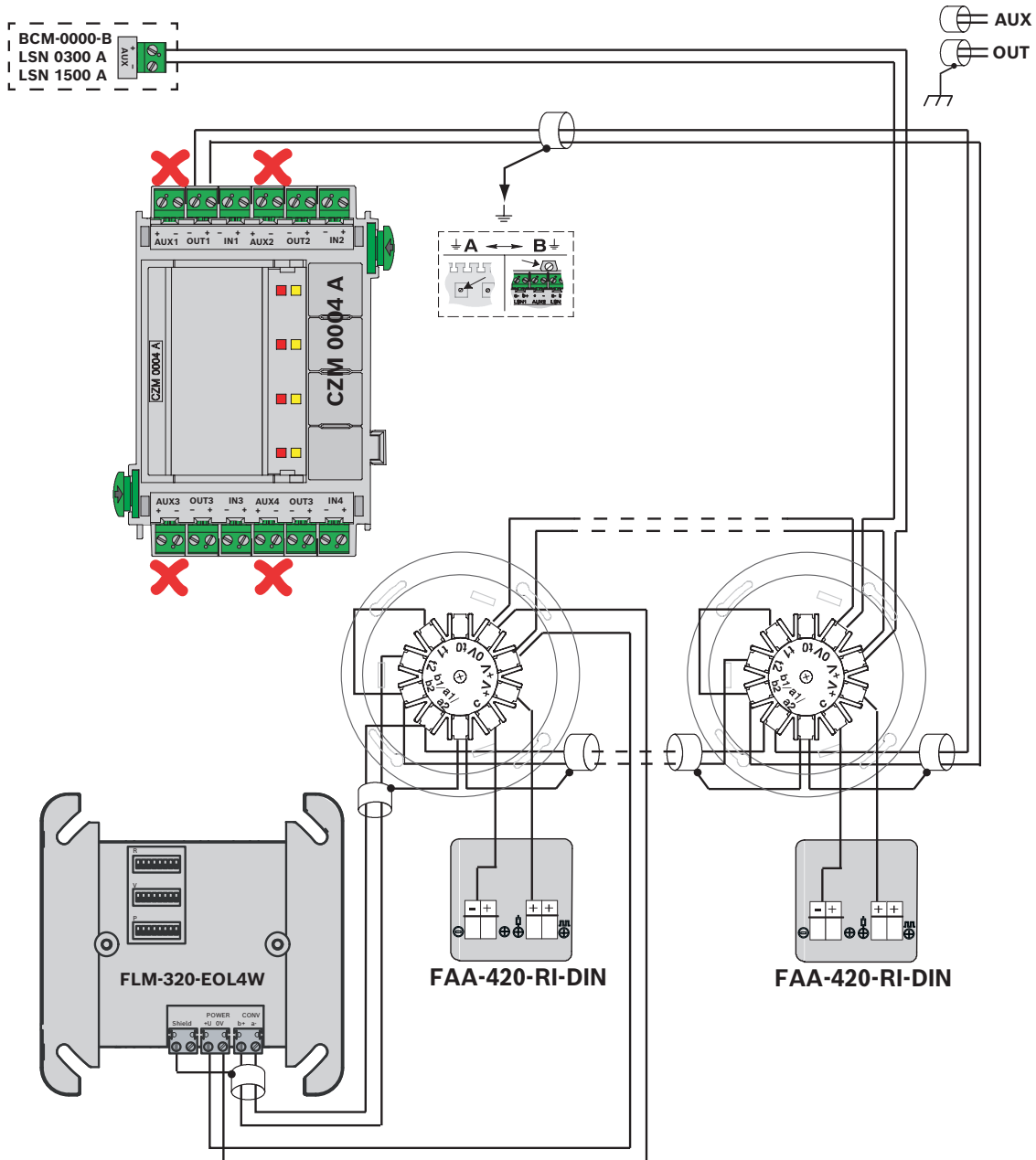


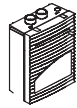


FCA-500-EU
FCP-O 500
FCP-O 500-P
FCP-OC 500
FCP-OC 500-P

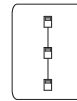


ELS



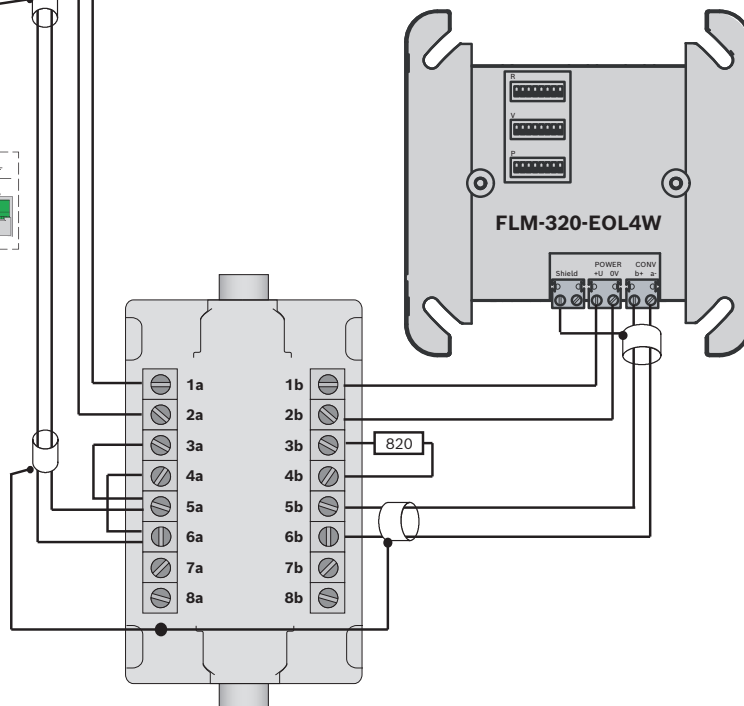
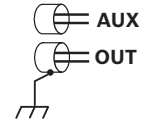
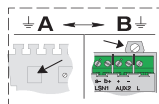
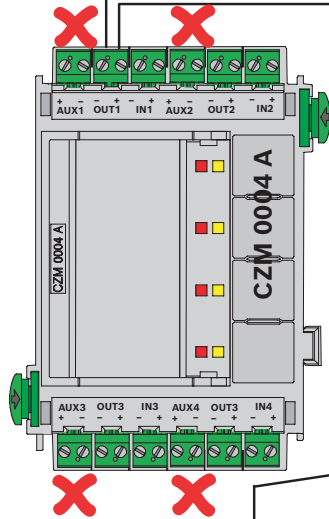


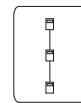
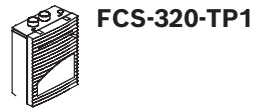
FCS-320-TM Series



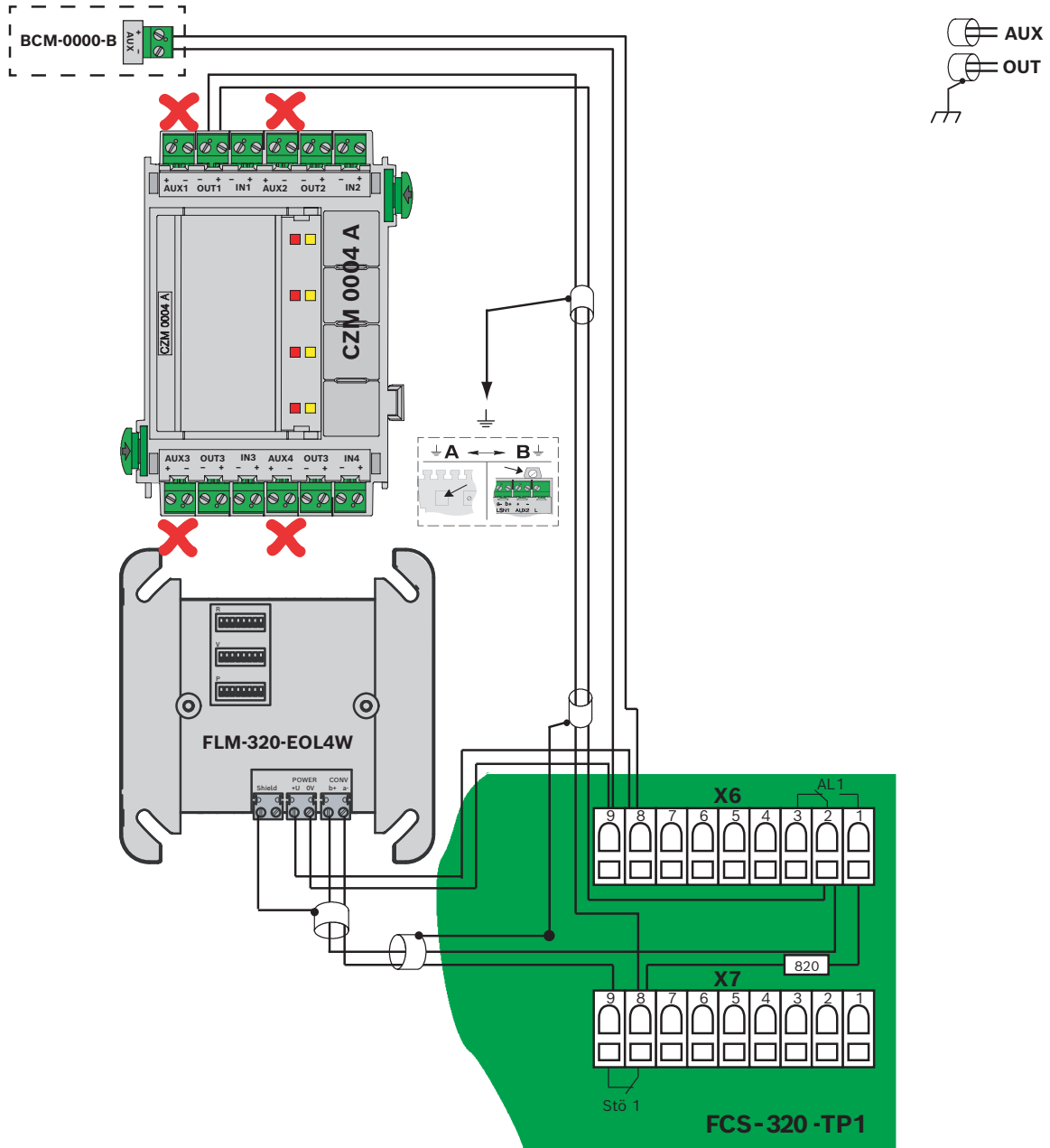
ELS

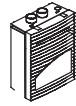
BCM-0000-B
LSN 0300 A
LSN 1500 A





ELS

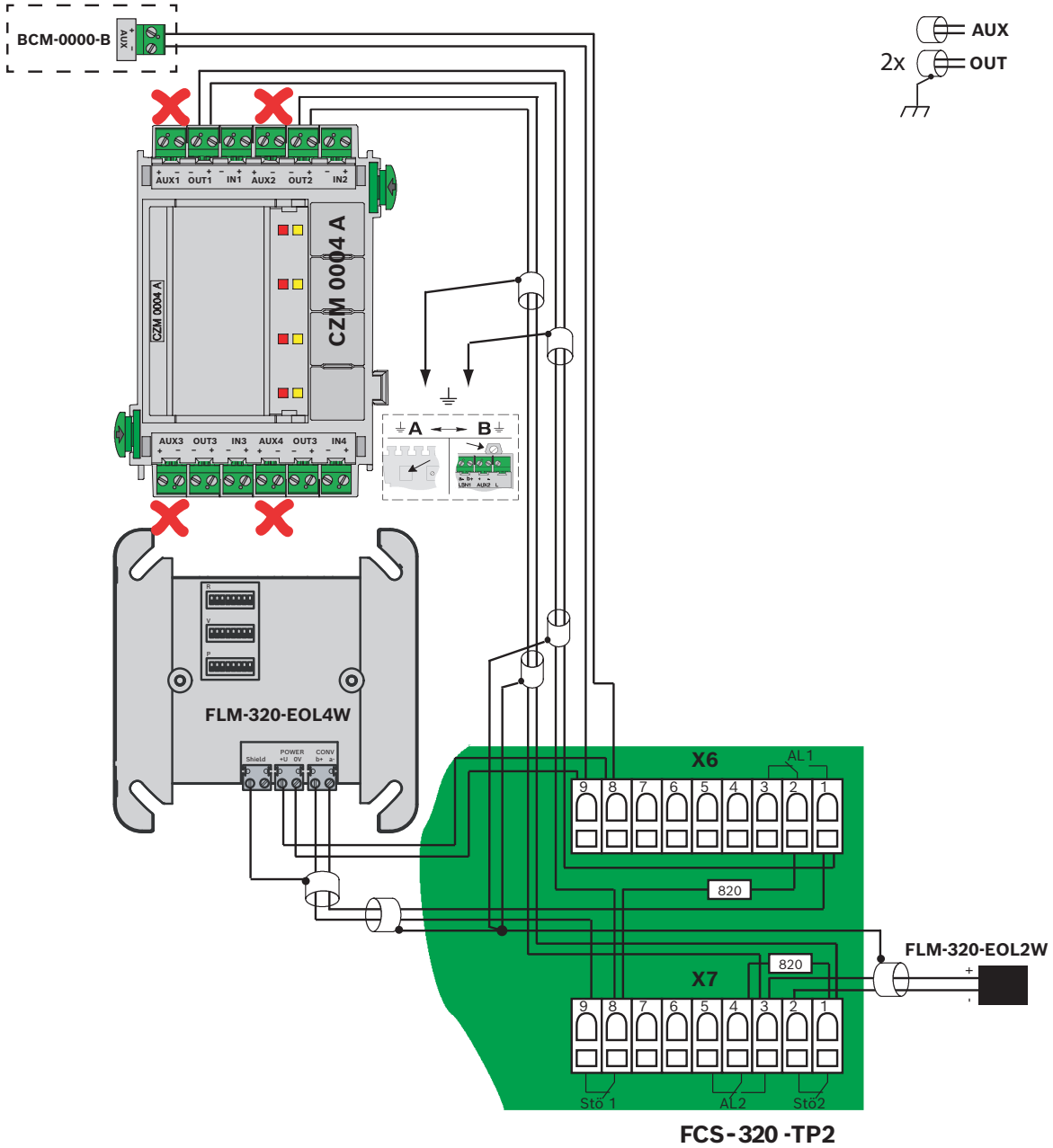




FCS-320-TP2



ELS





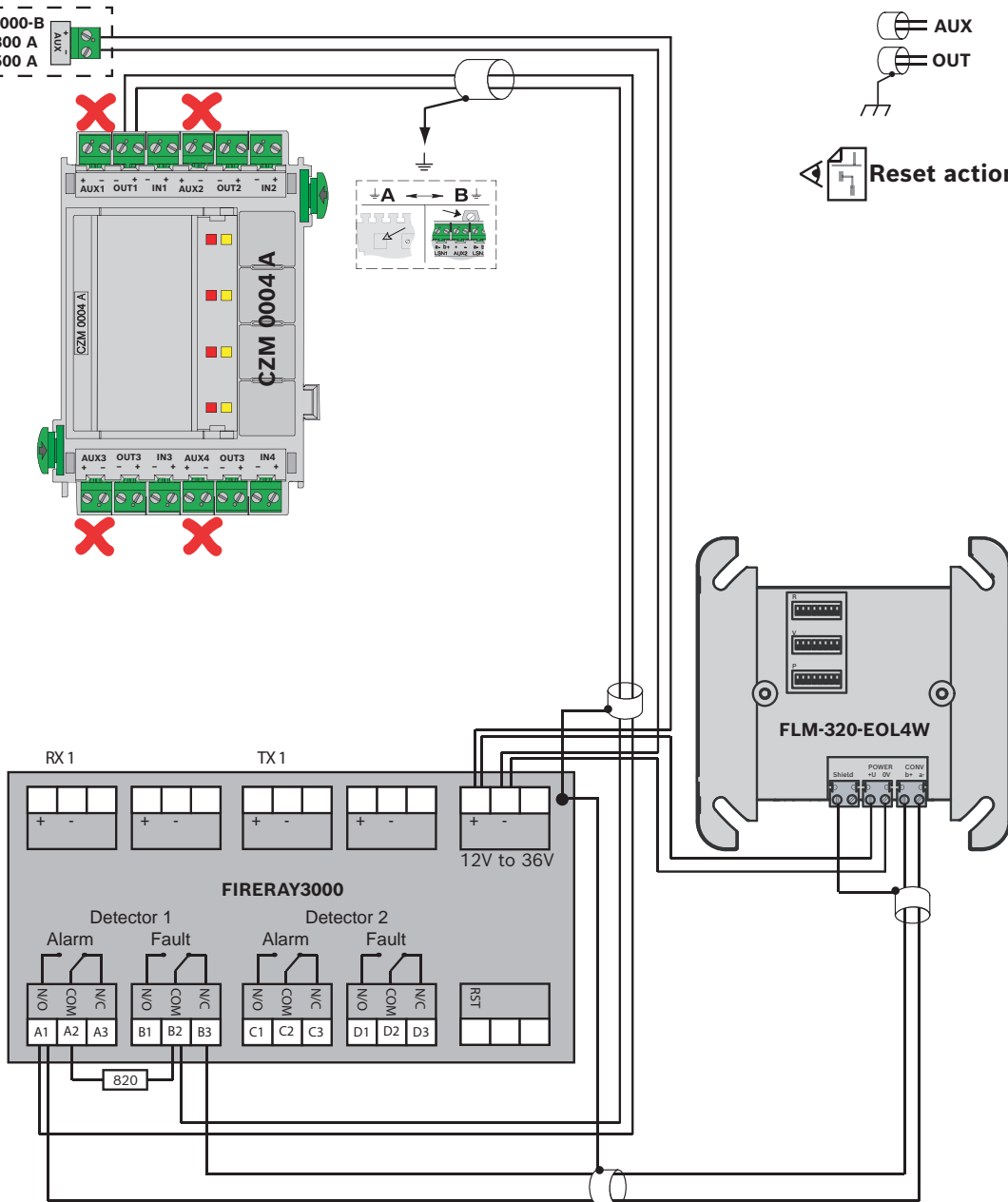
FIRERAY3000

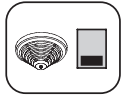
1 x



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



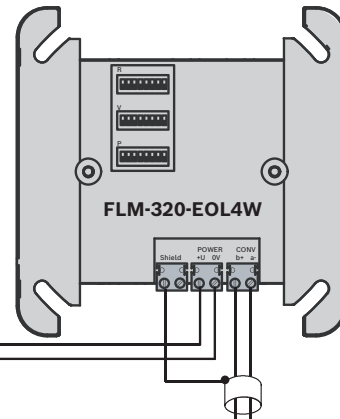
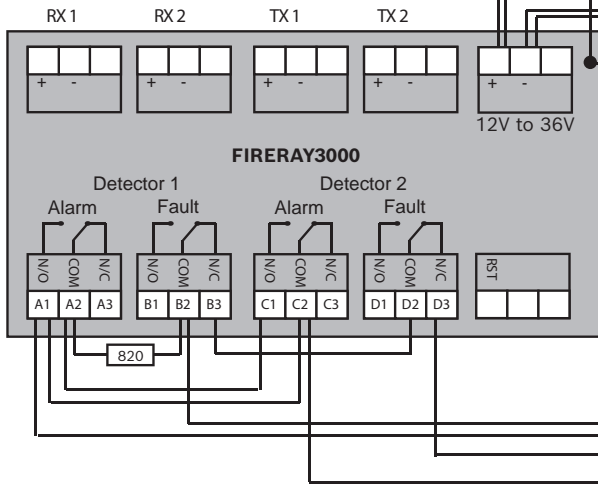
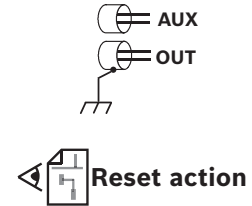
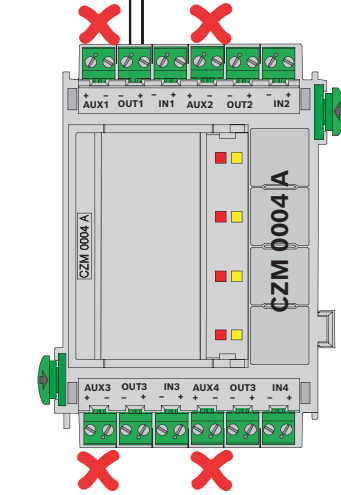


FIRERAY3000
2 x **OUT1**



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



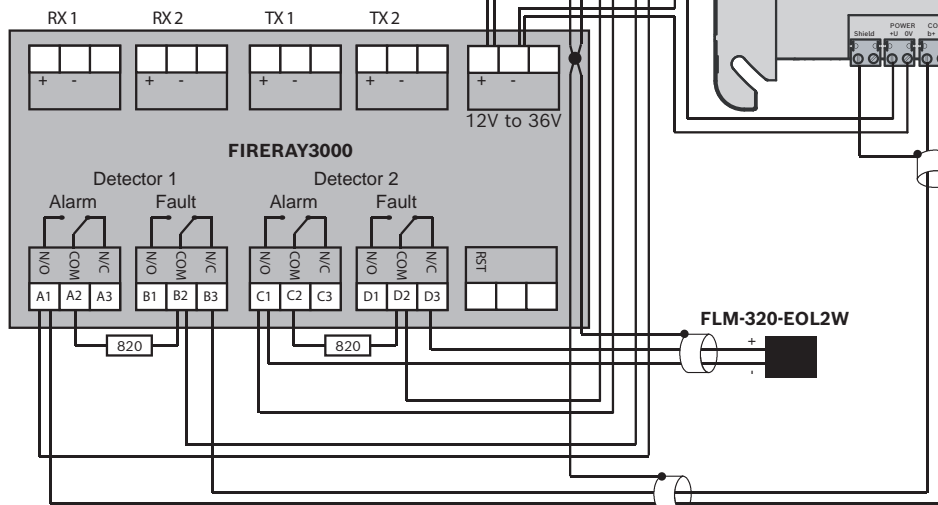
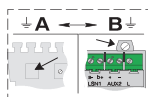
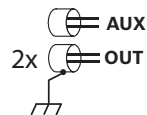
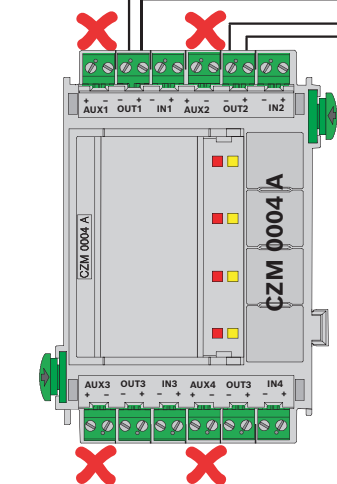


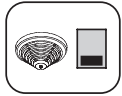
FIRERAY3000
2 x **OUT1+2**



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



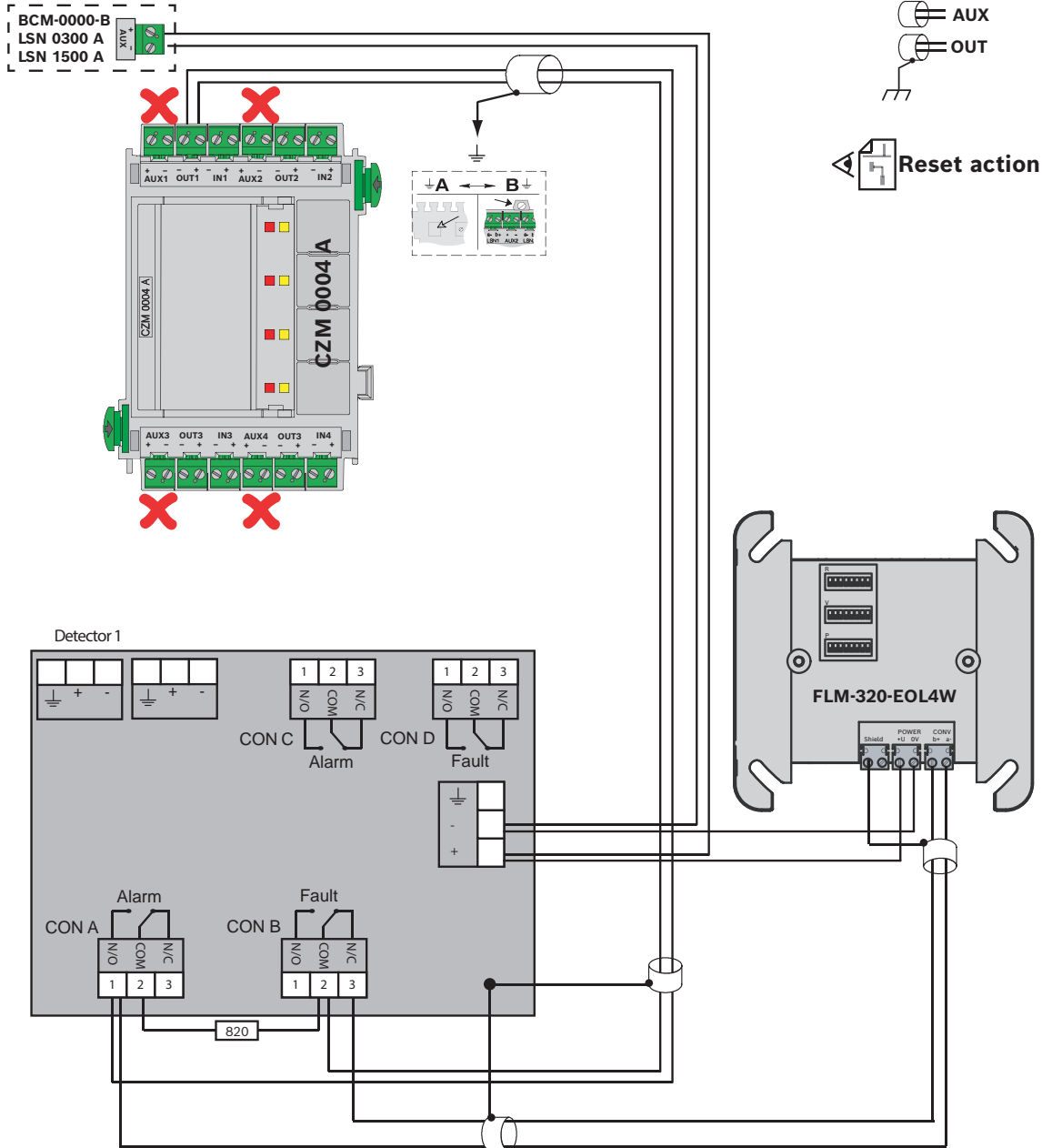


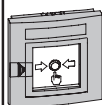
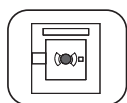
FIRERAY5000

1 x

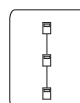


ELS

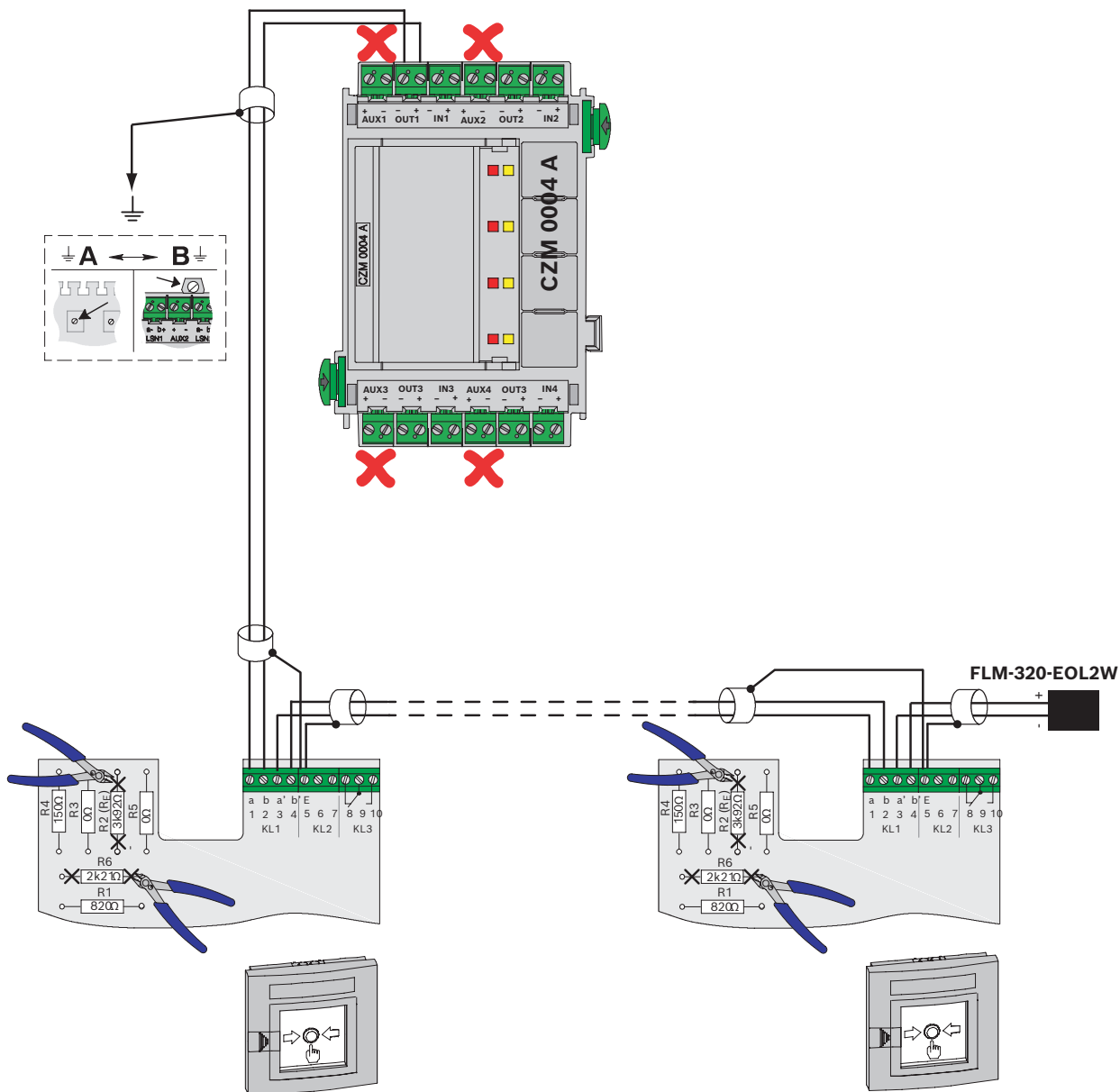


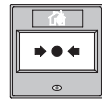
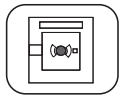


FMC-120-DKM-G-R
 FMC-120-DKM-H-R
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B
 FMC-120-DKM-G-Y



ELS

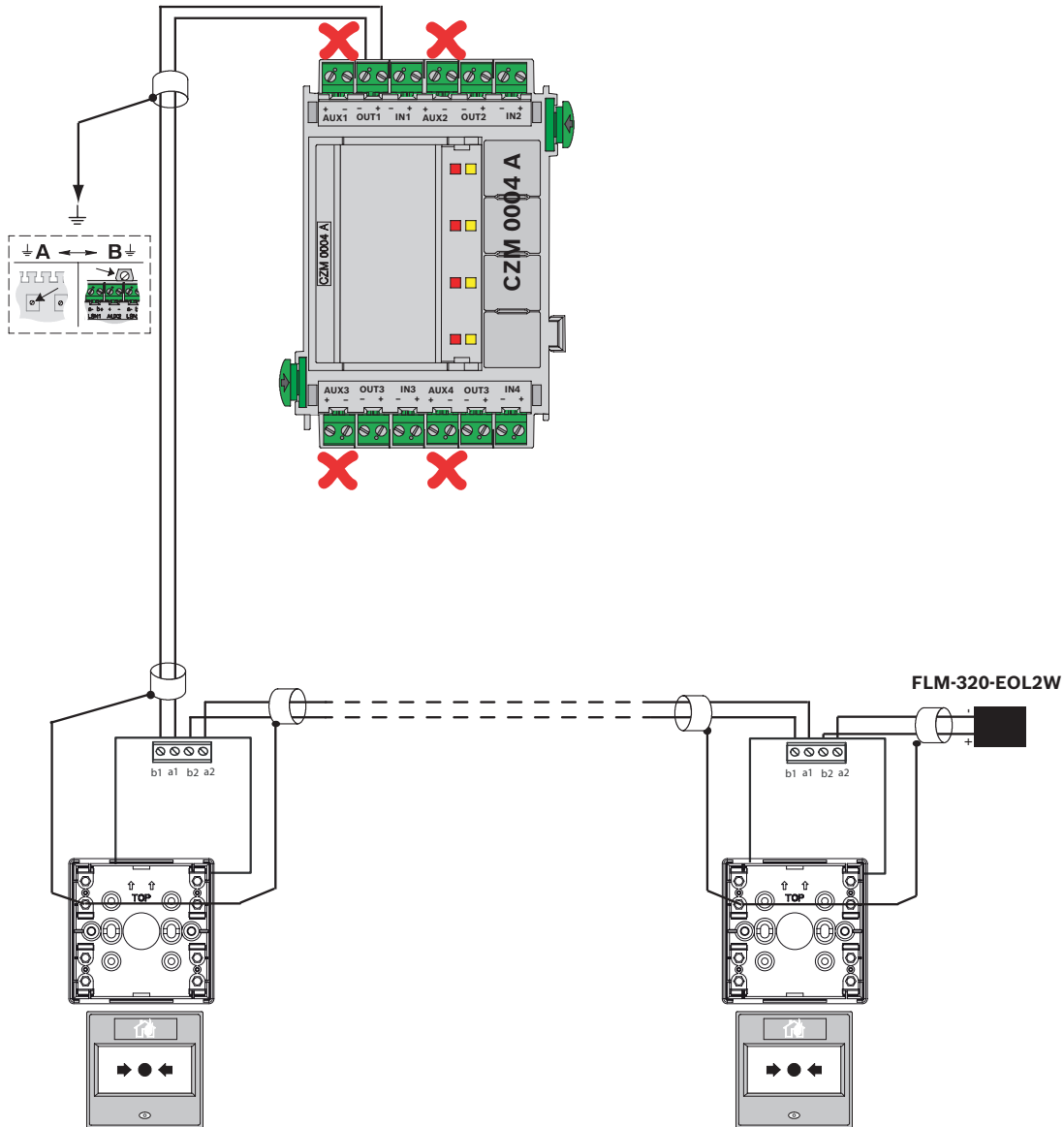




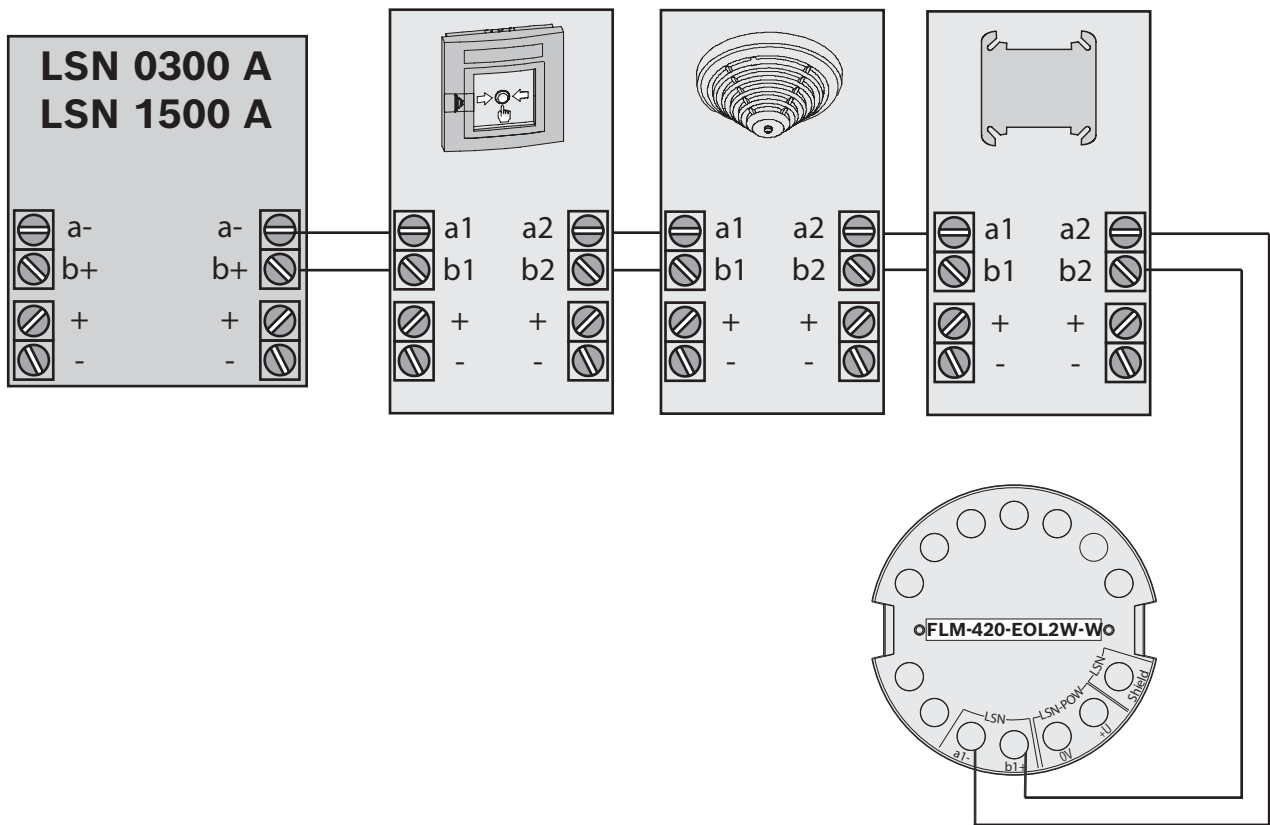
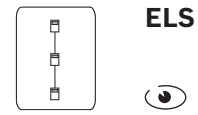
FMC-300RW-GSGBU
 FMC-300RW-GSRBU
 FMC-300RW-GSGRD
 FMC-300RW-GSRRD
 FMC-300RW-GSGYE
 FMC-300RW-GSRYE

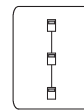


ELS

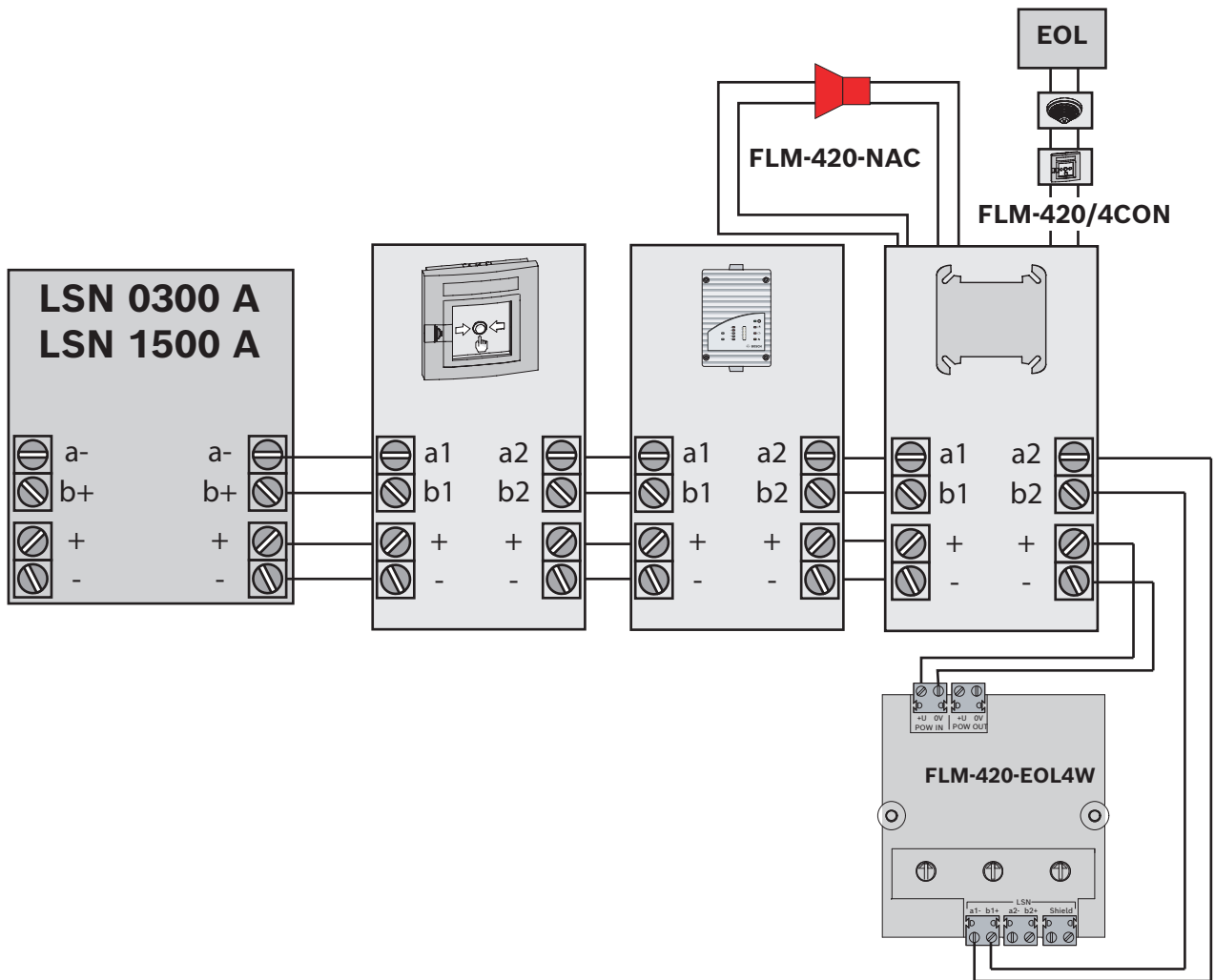


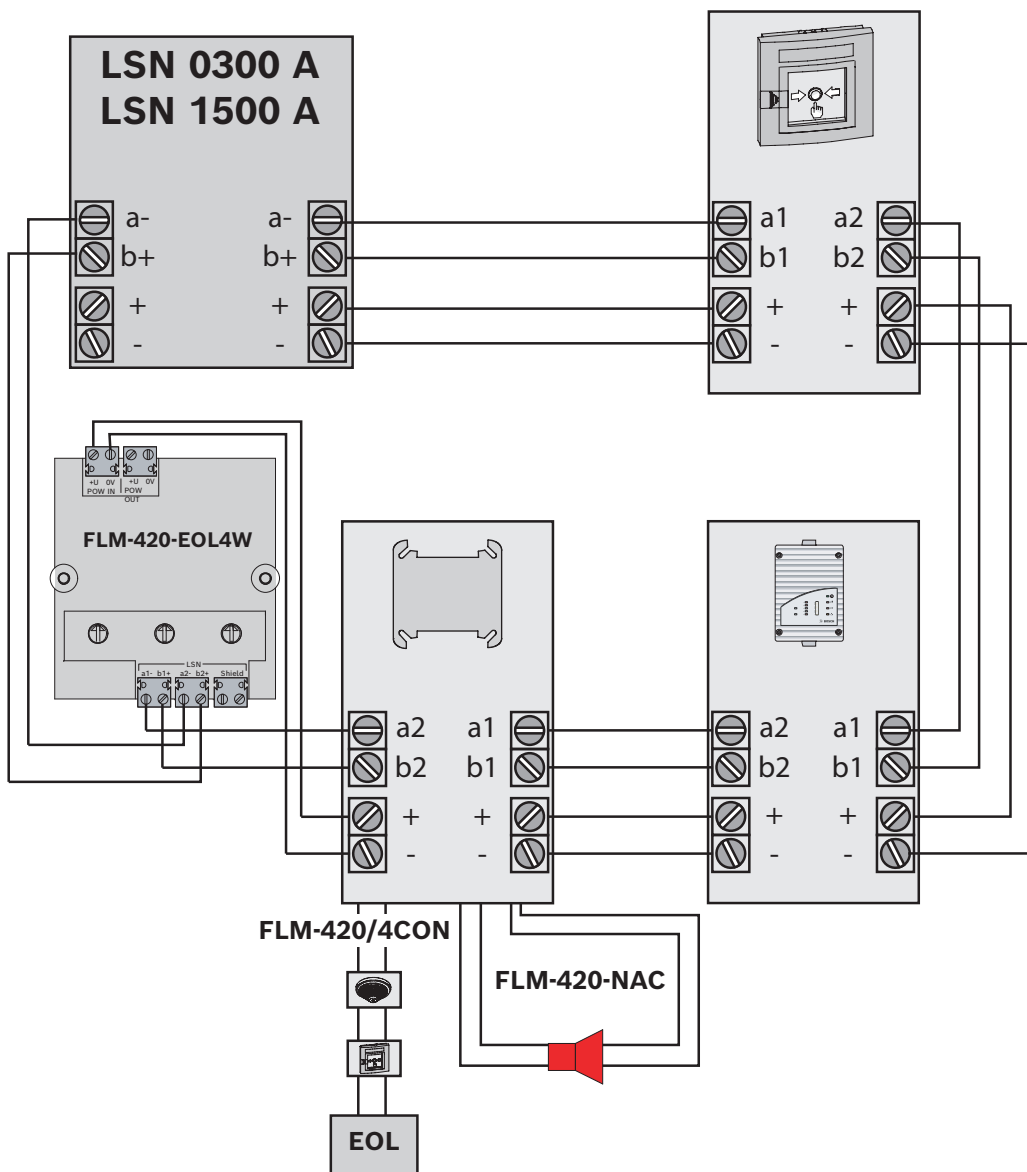
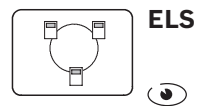
2.6.2 LSN 0300 A





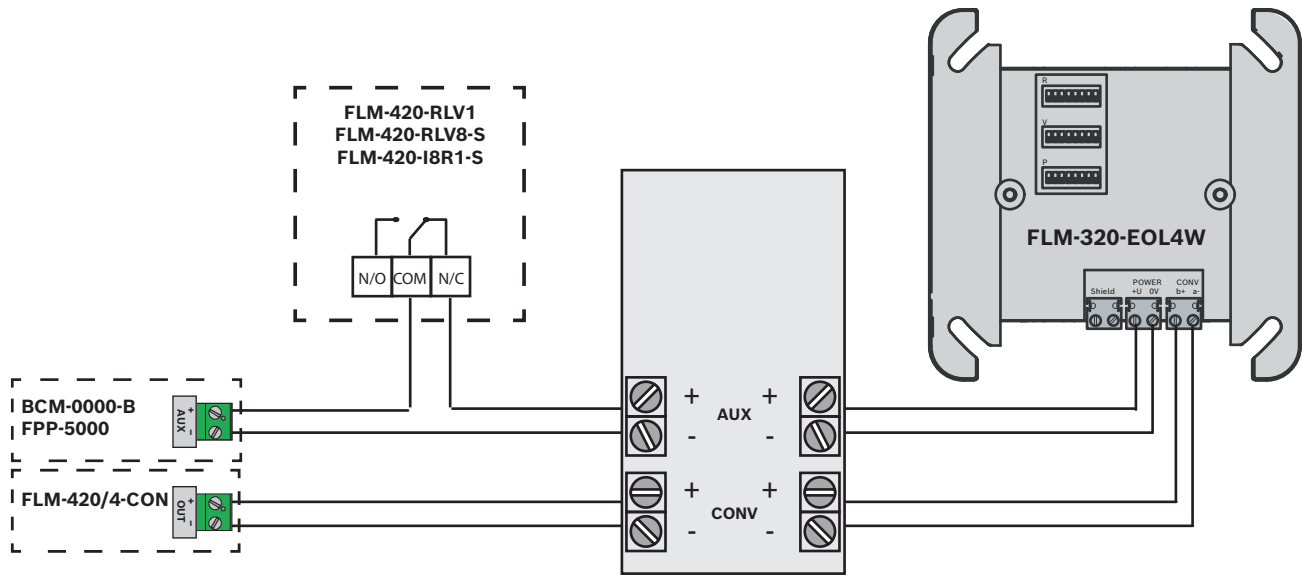
ELS

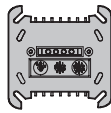
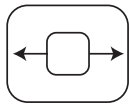




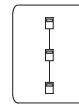
Reset action

ELS

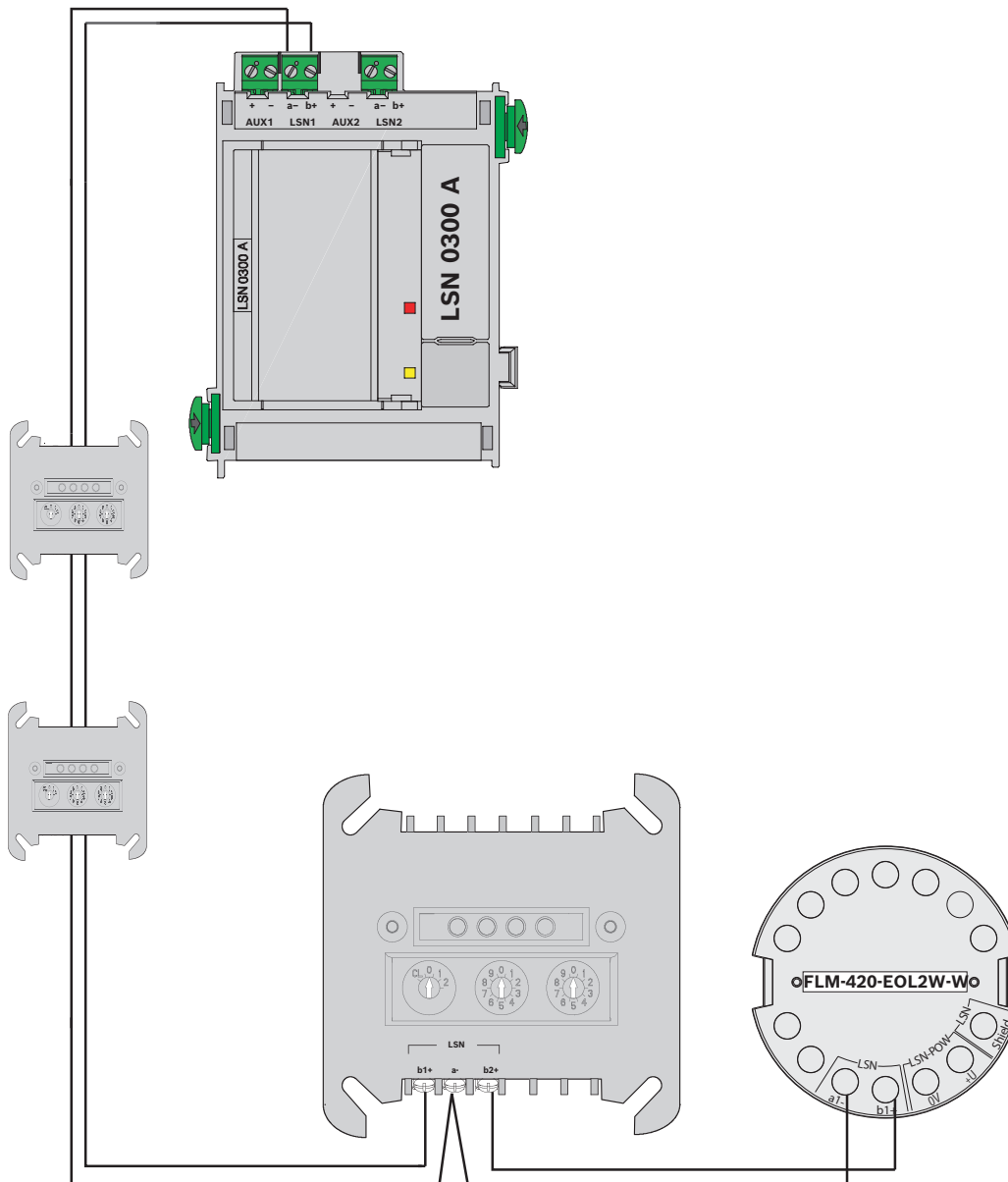


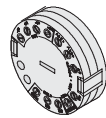
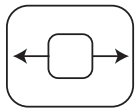


FLM-420-I2-D
 FLM-420-O111-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

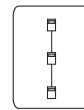


ELS

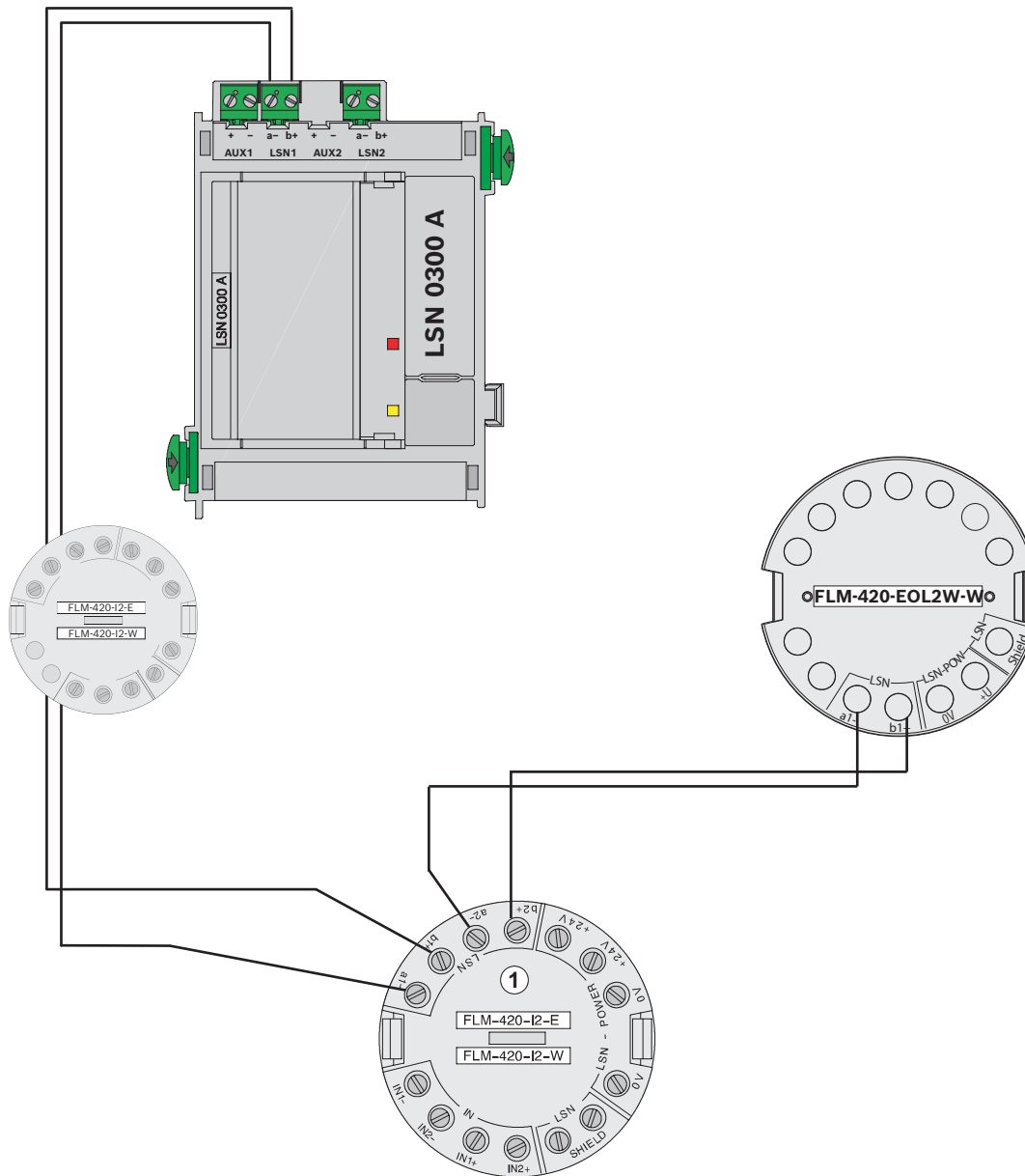


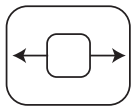


FLM-420-12-E/W

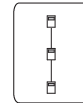


ELS

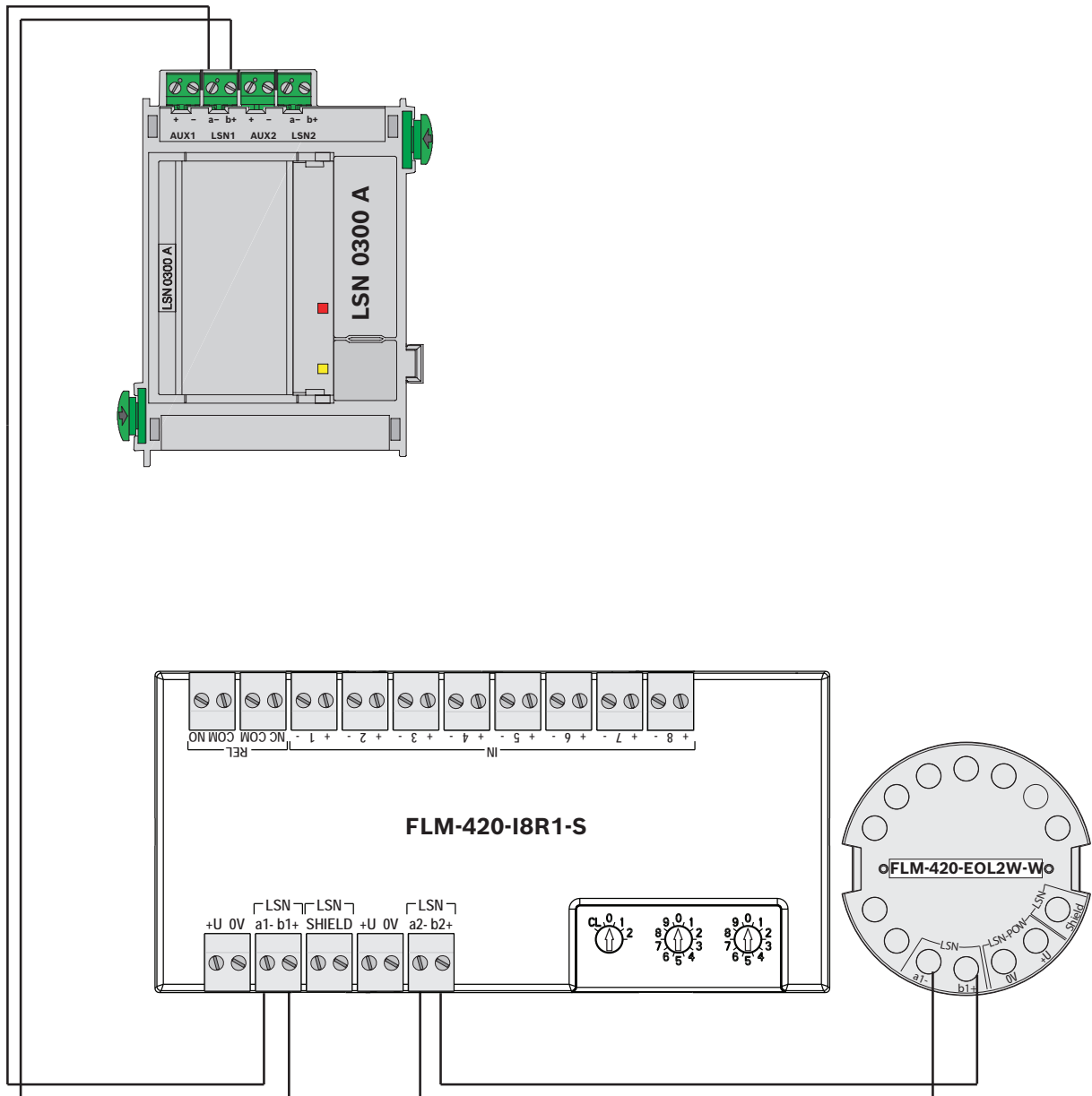


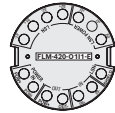
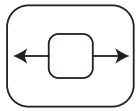


FLM-420-18R1-S

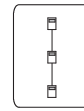


ELS

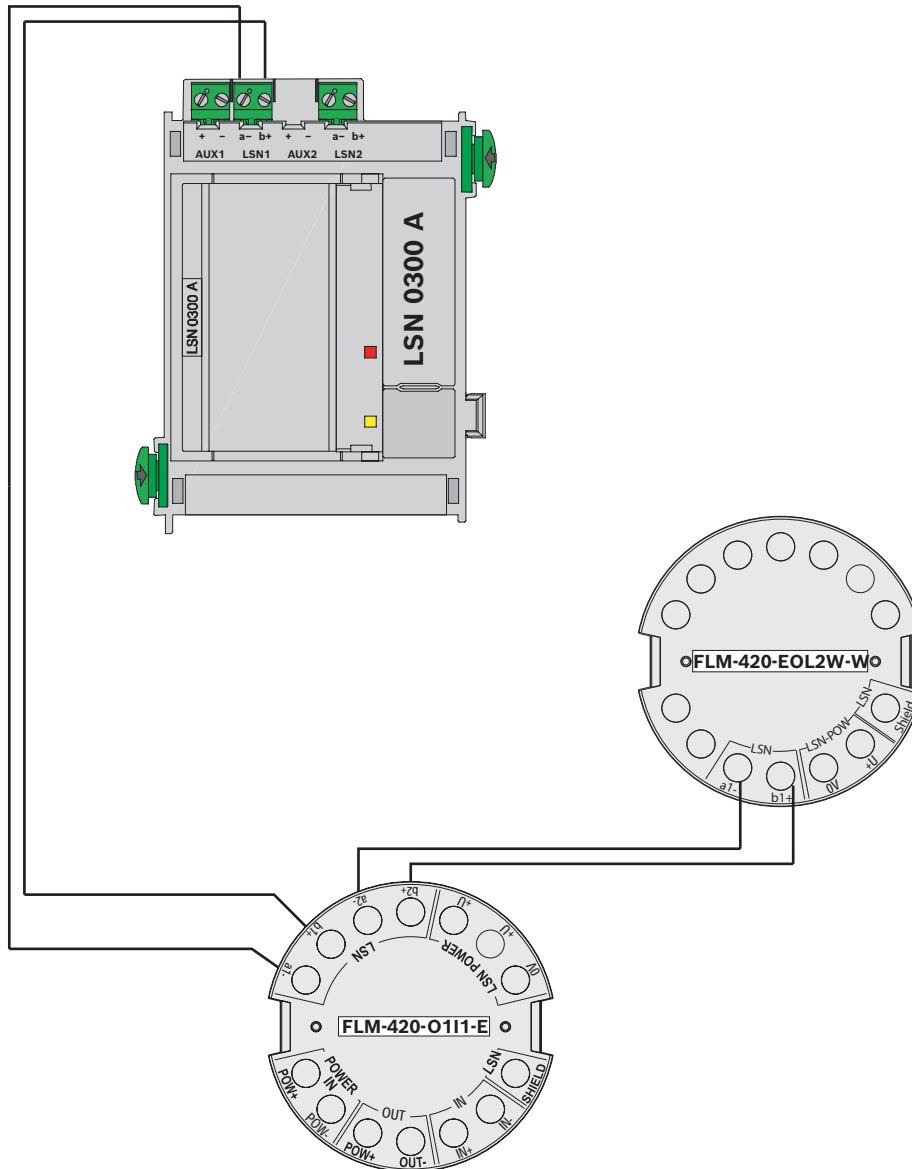


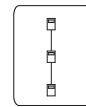
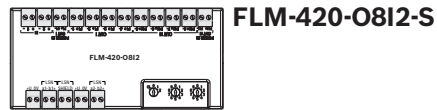
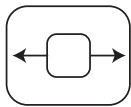


FLM-420-O111-E

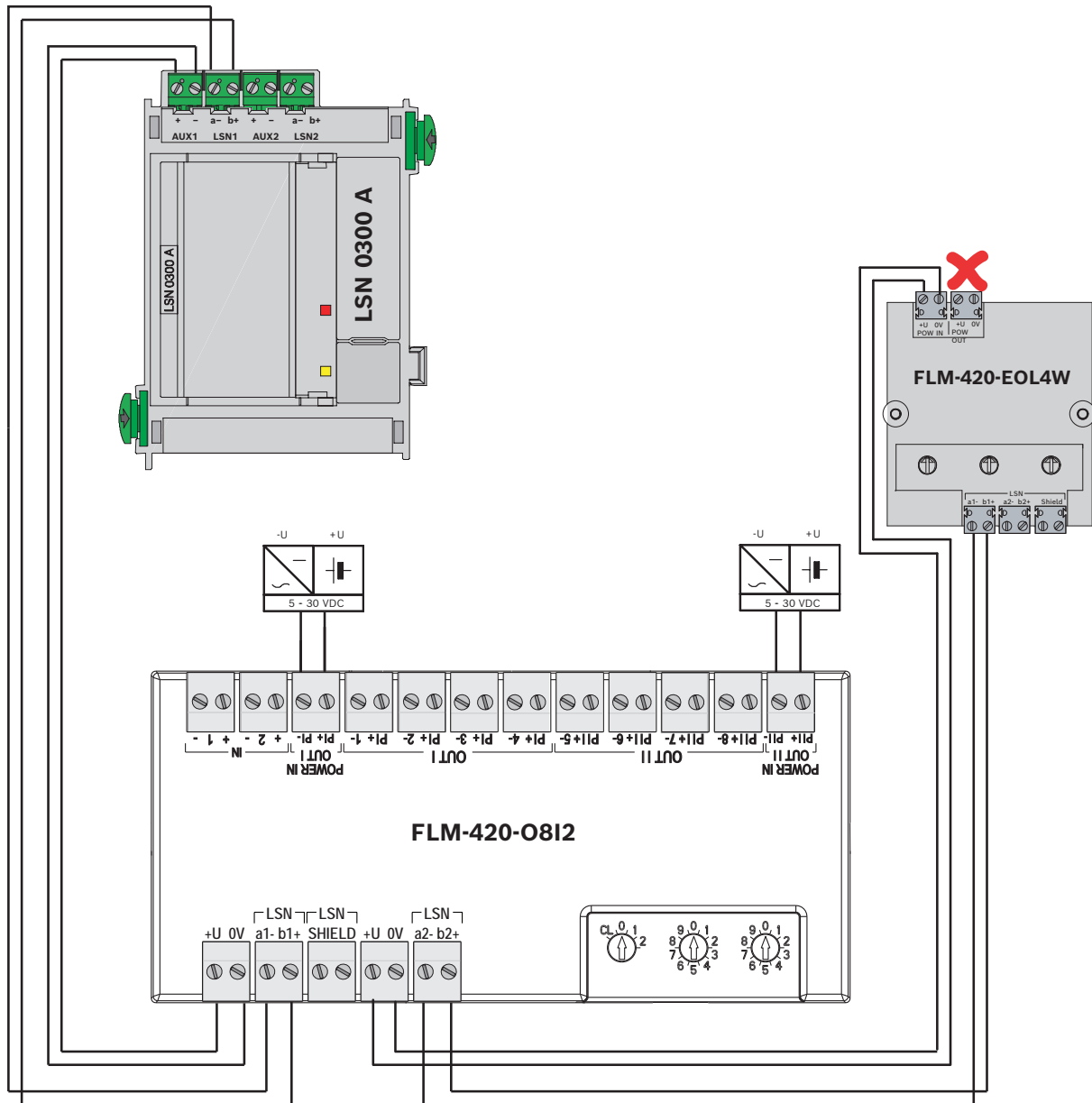


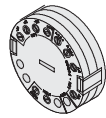
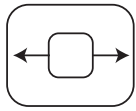
ELS



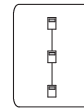


ELS

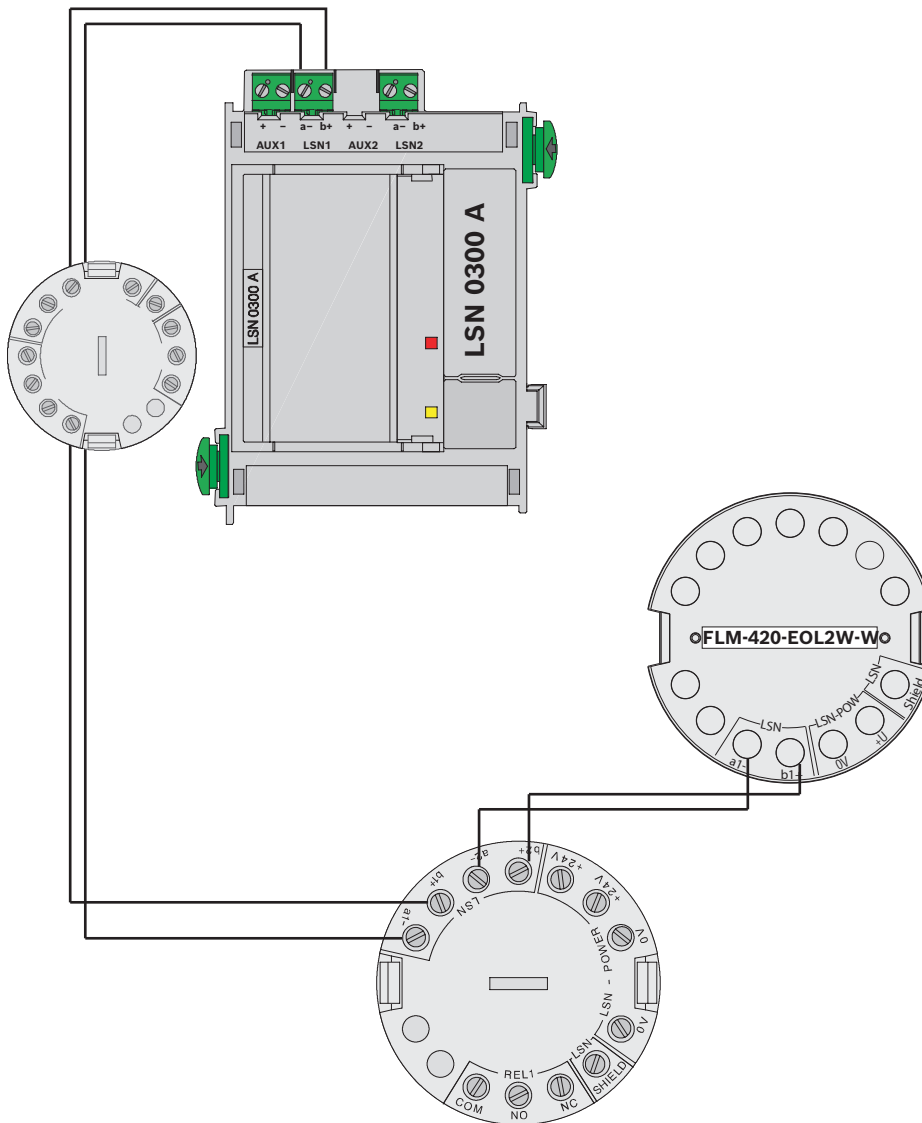


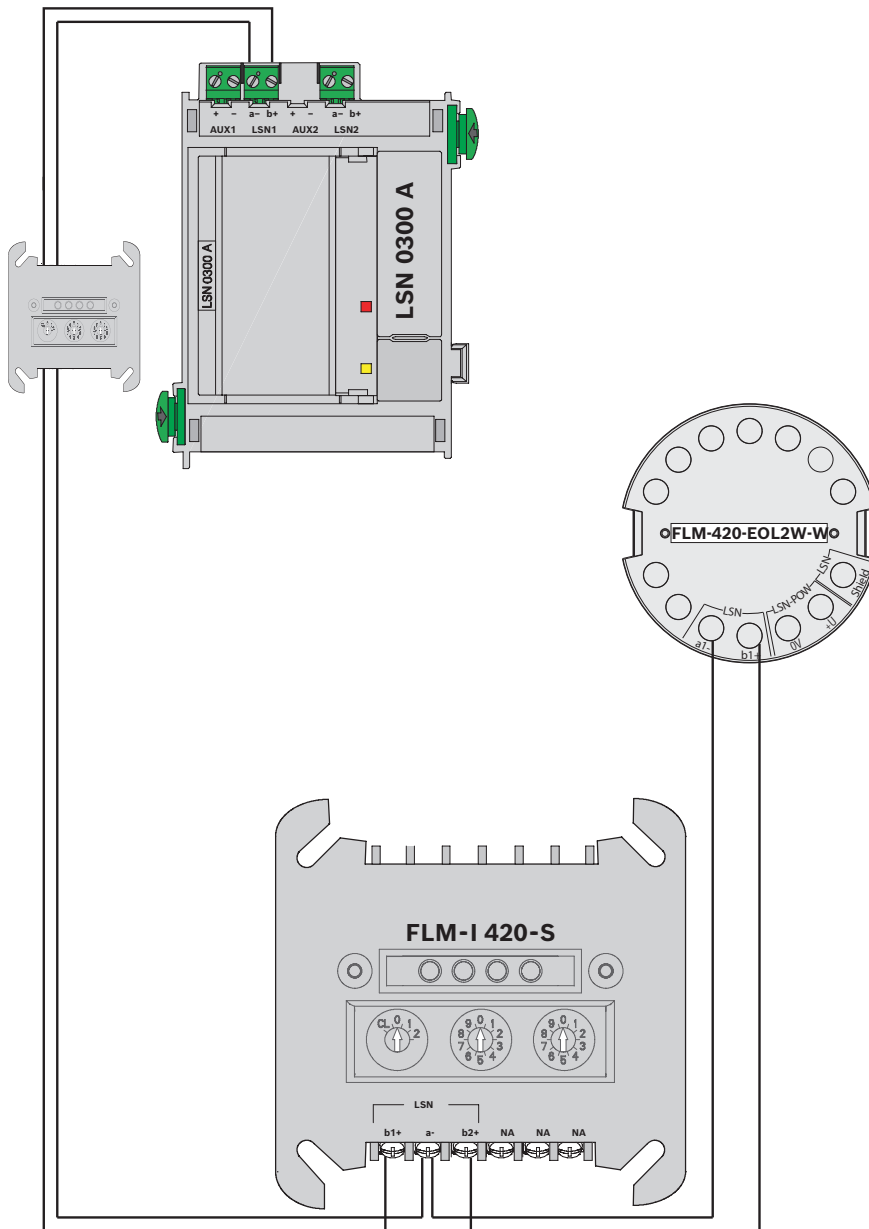
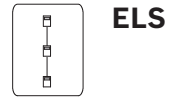
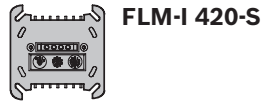
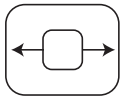


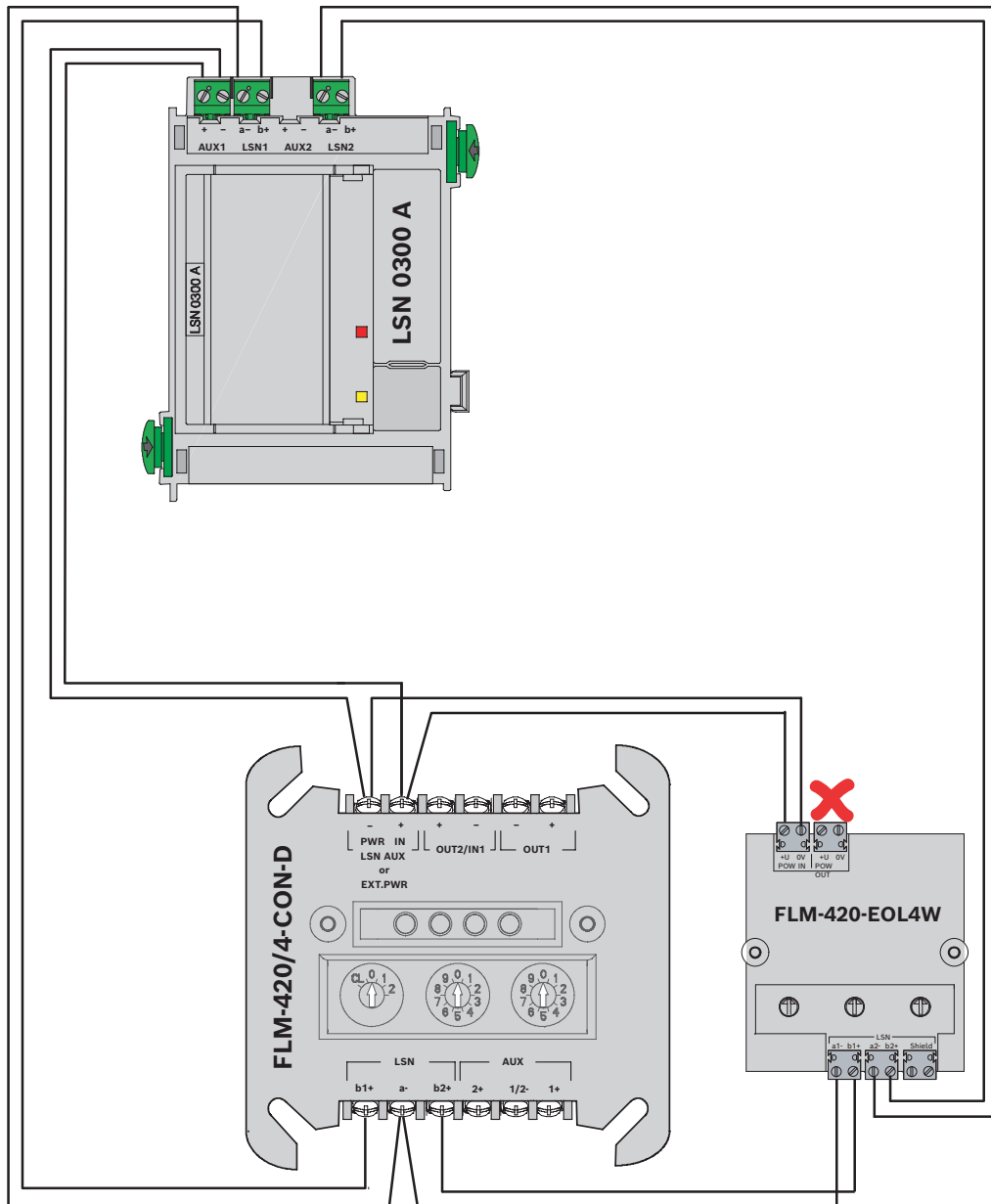
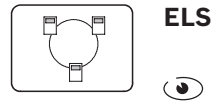
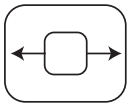
FLM-420-I2-E/-W
FLM-420-RLV1-E

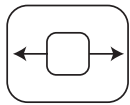


ELS

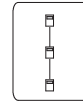




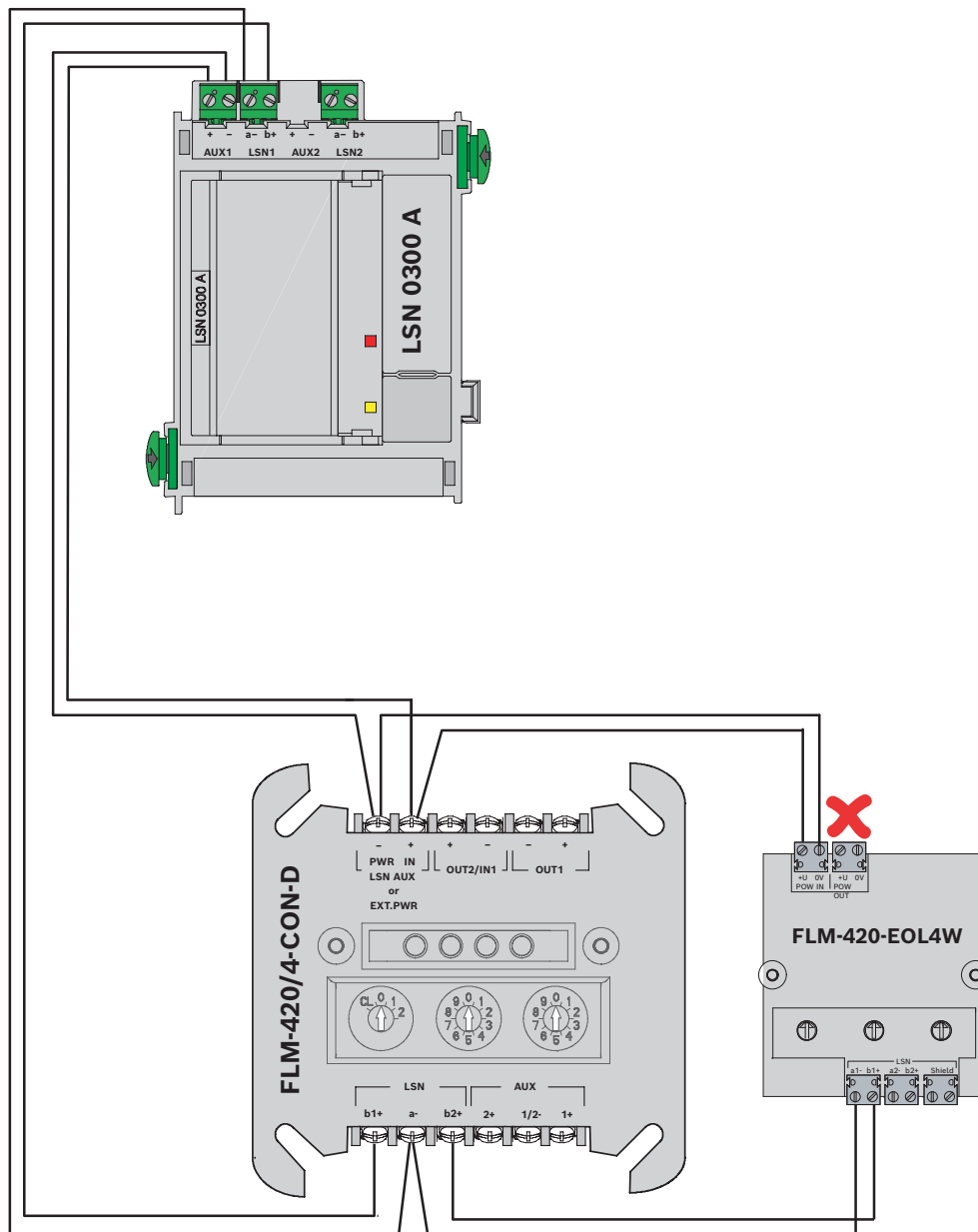


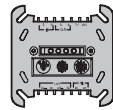
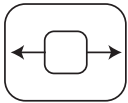


**FLM-420/
4-CON-D**

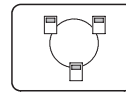


ELS

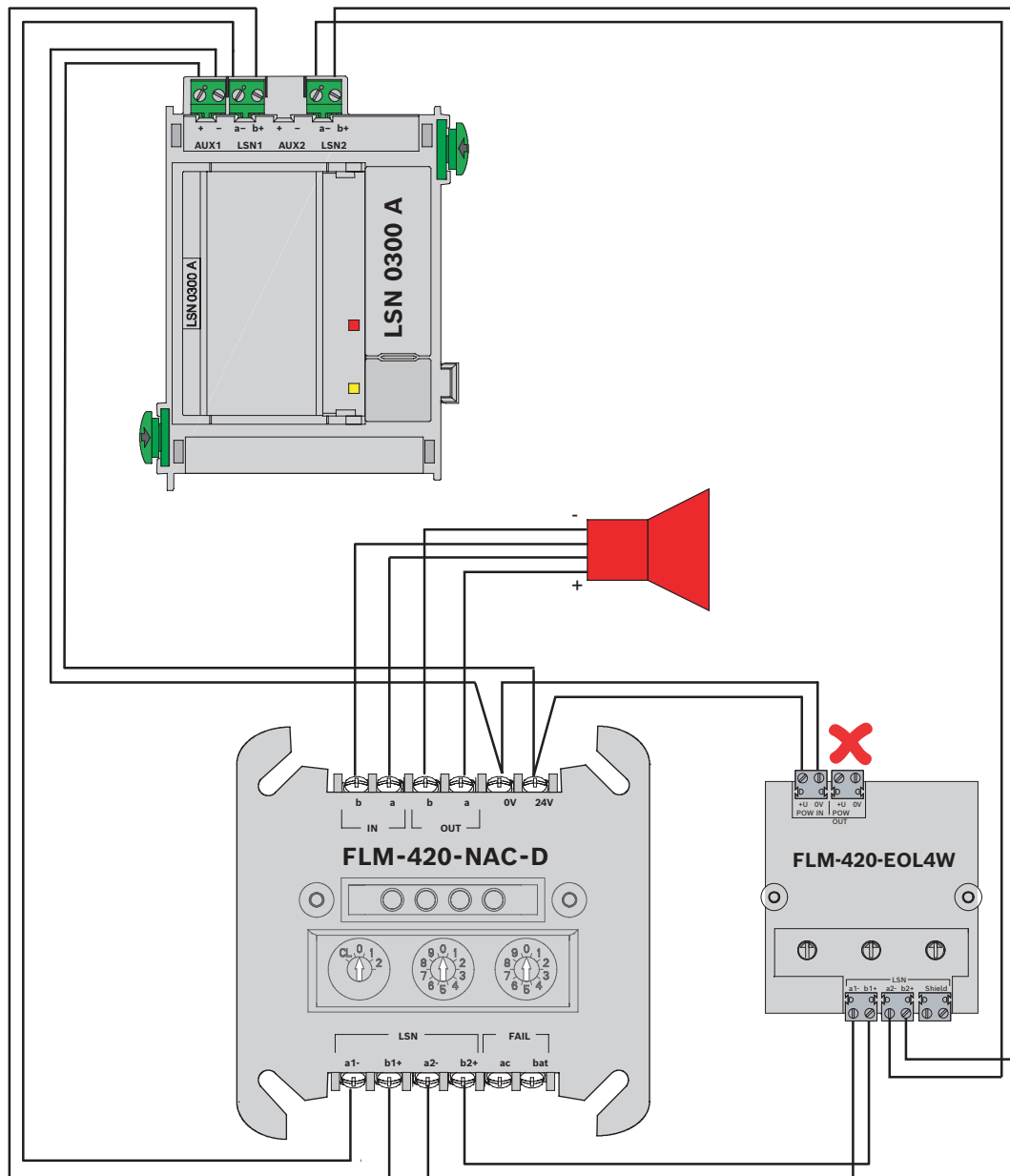


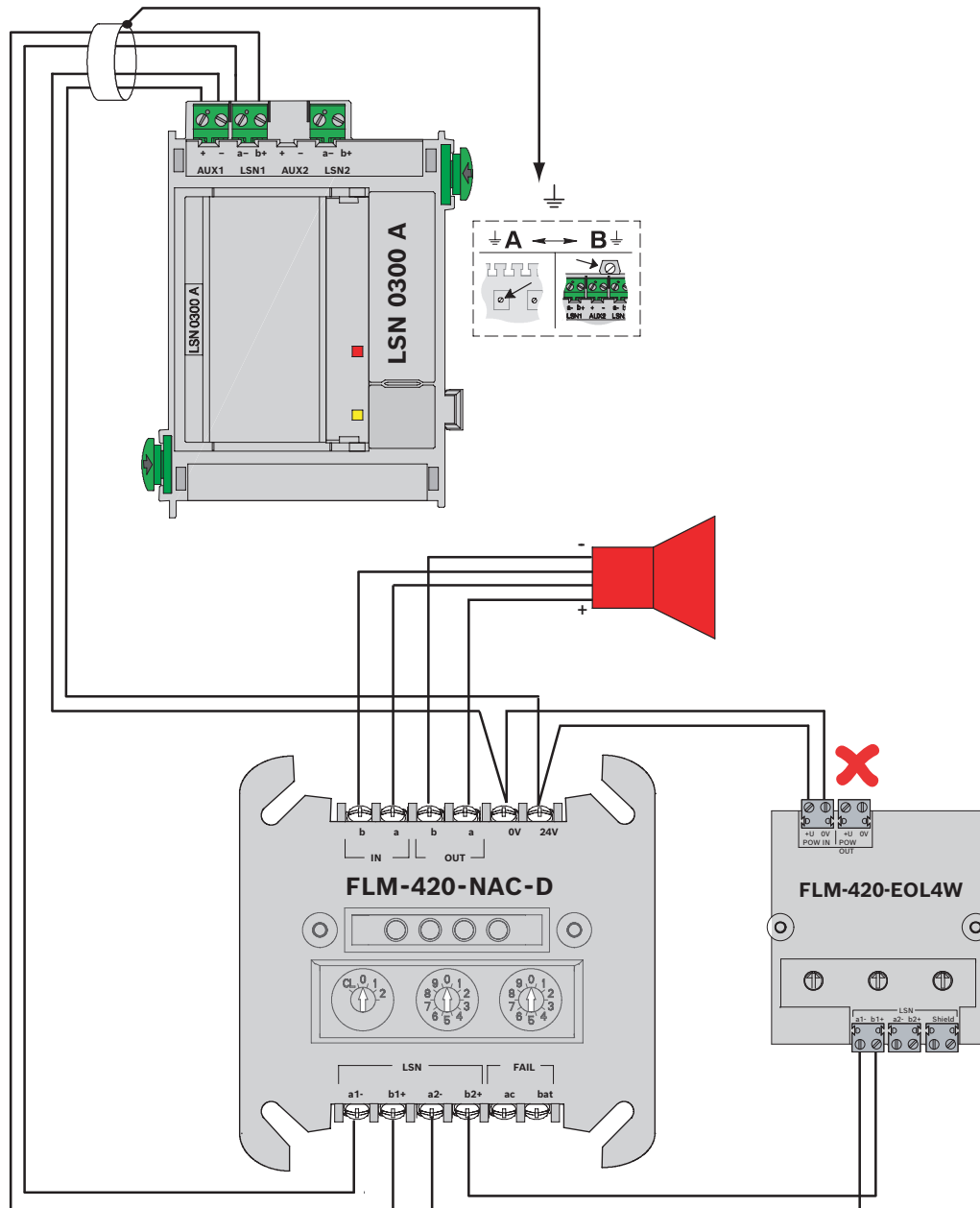
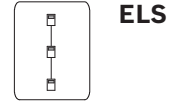
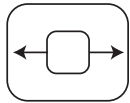


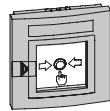
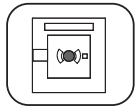
FLM-420-NAC-D/S



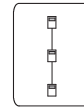
ELS
EN 54-2



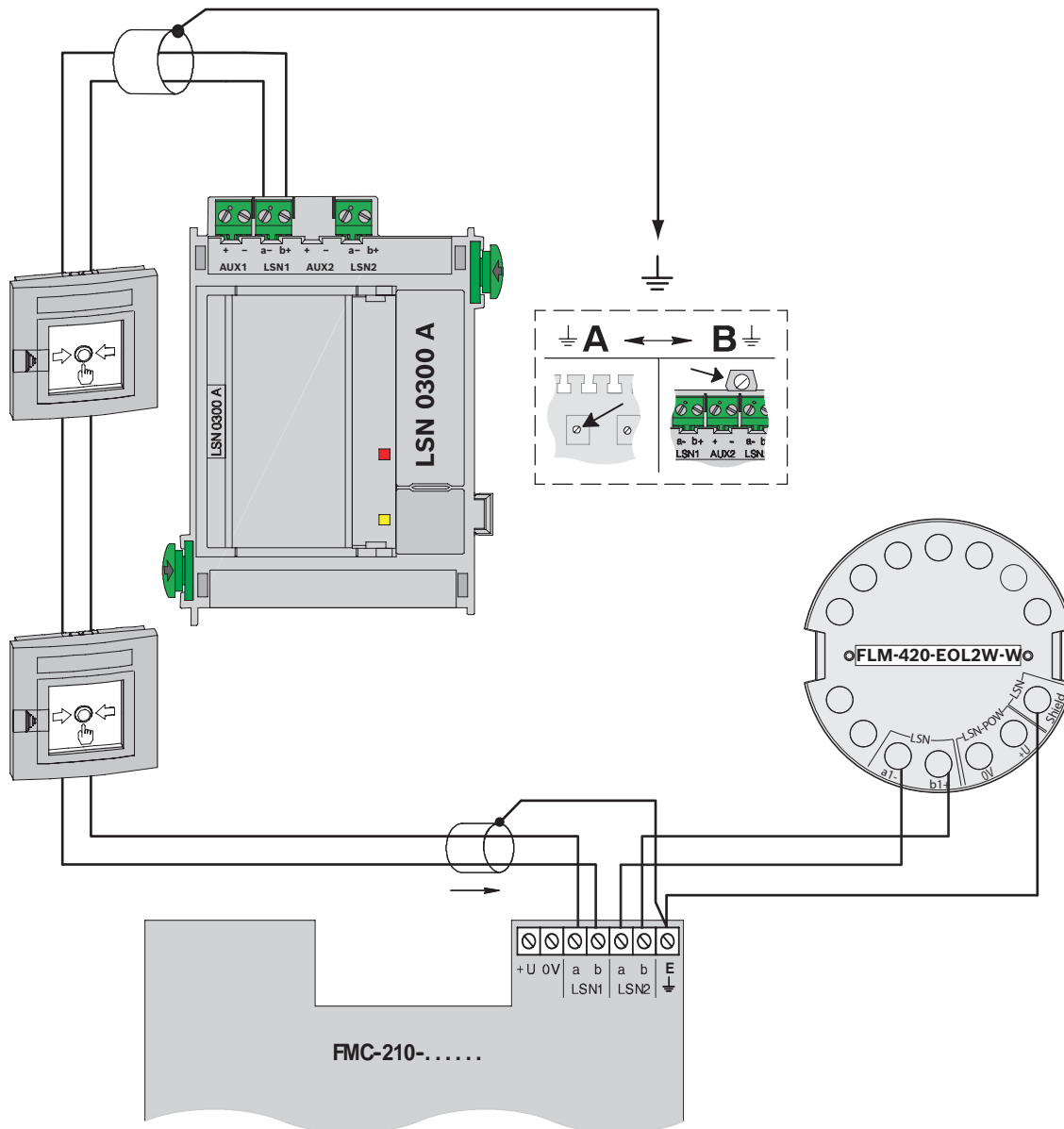


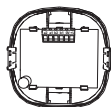


FMC-210...

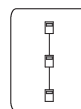


ELS

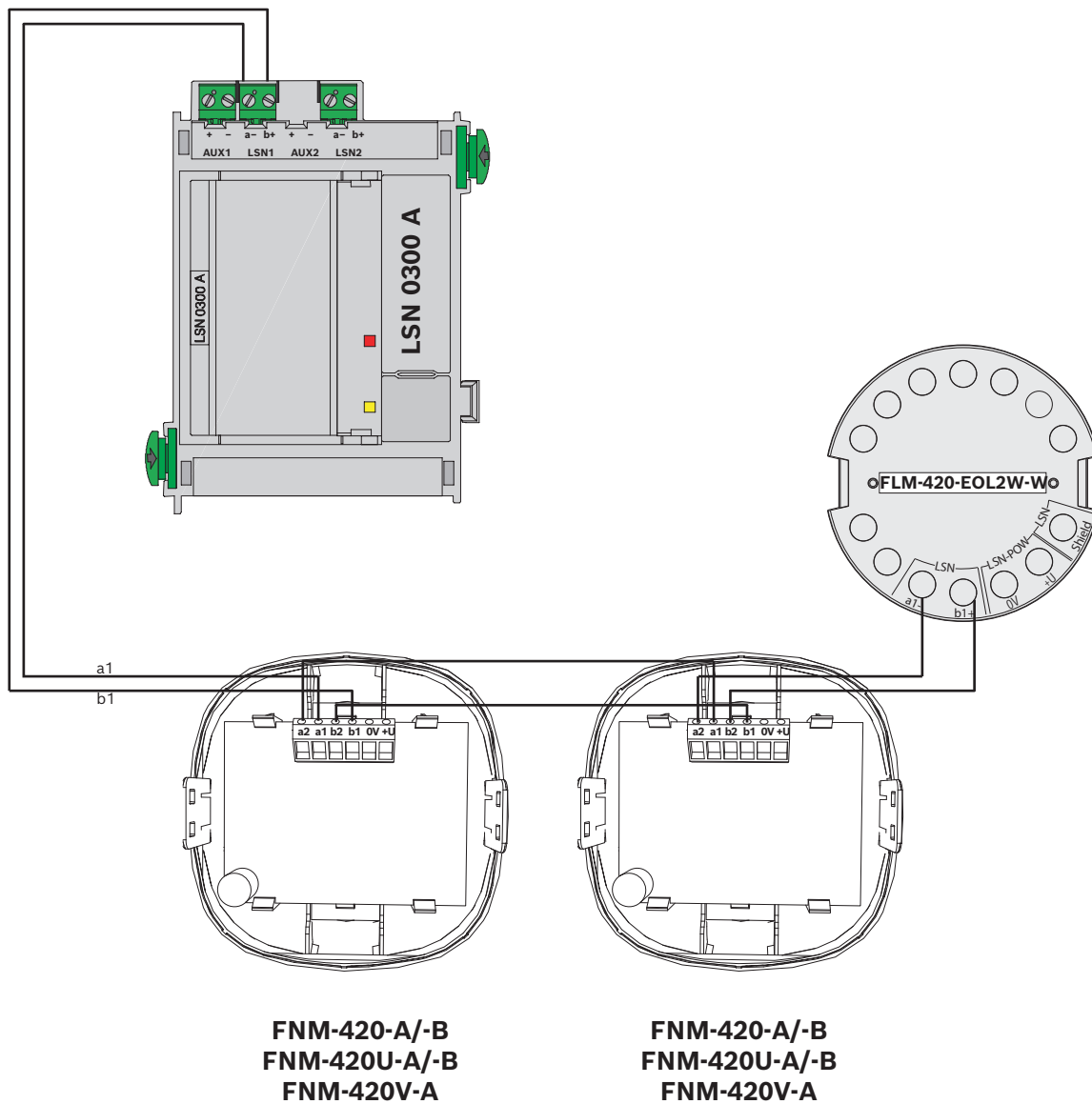




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS

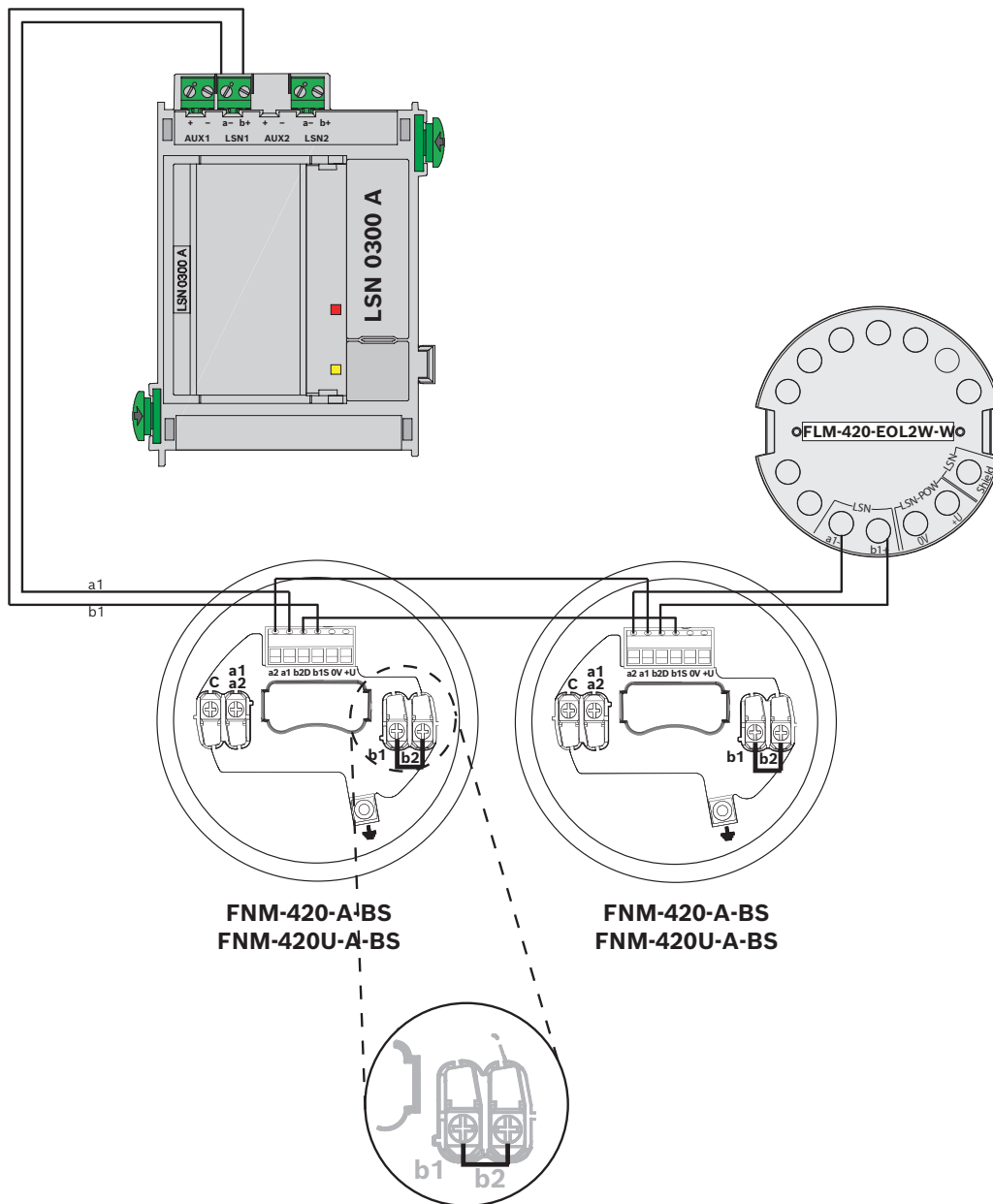


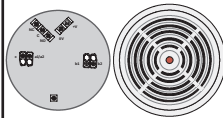


FNM-420-A-BS
FNM-420U-A-BS

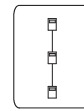


ELS

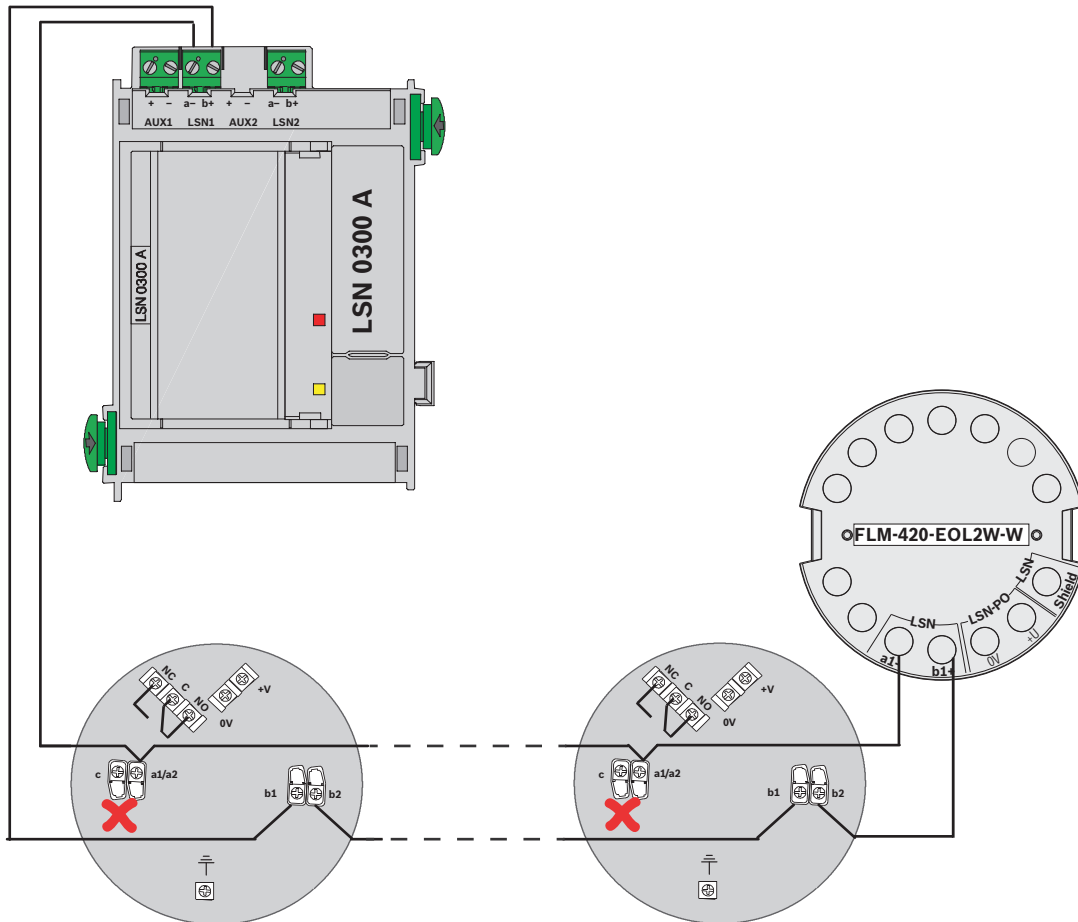


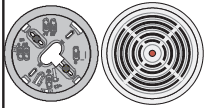


FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R



ELS

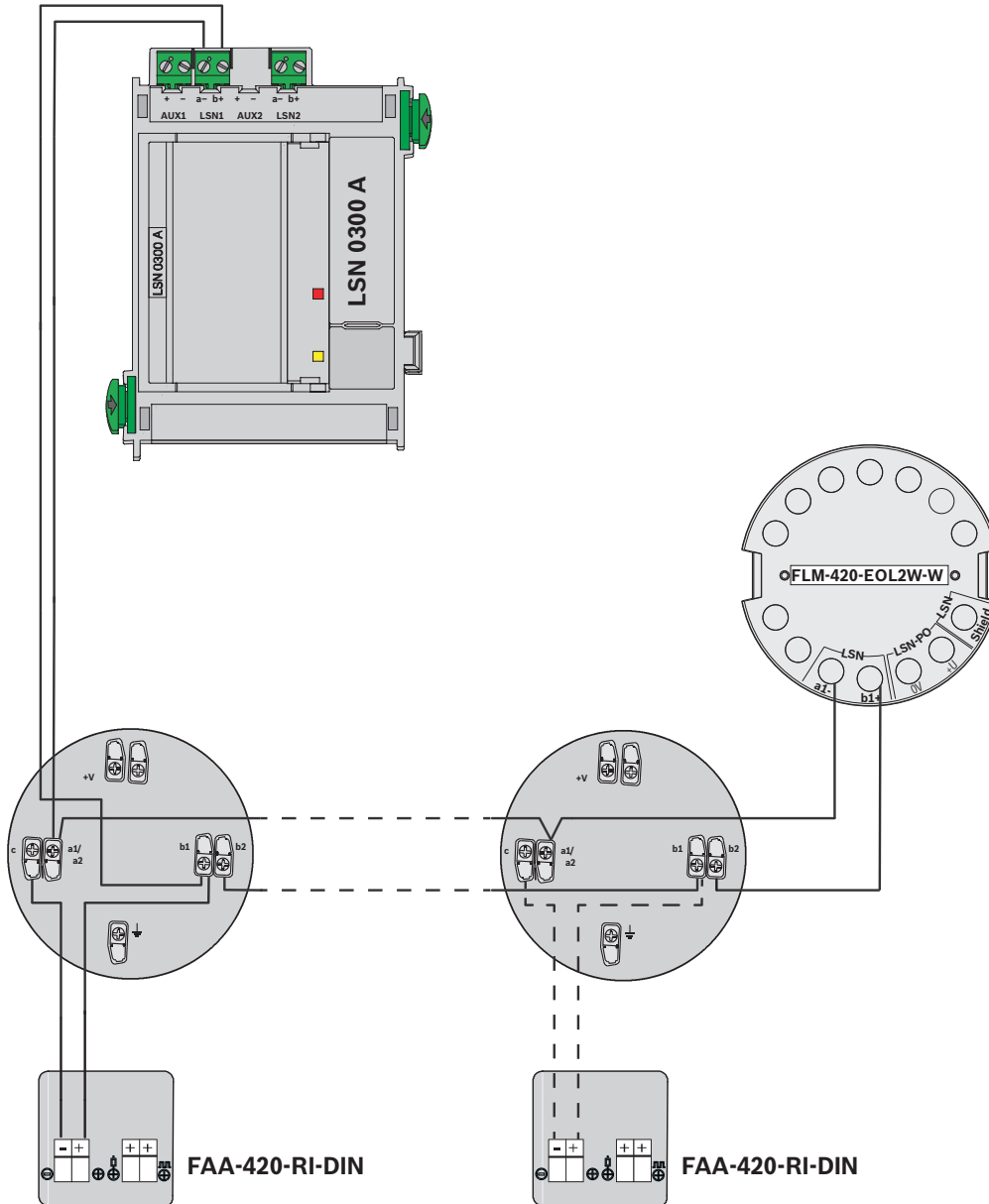


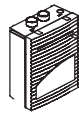


MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R

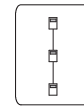


ELS

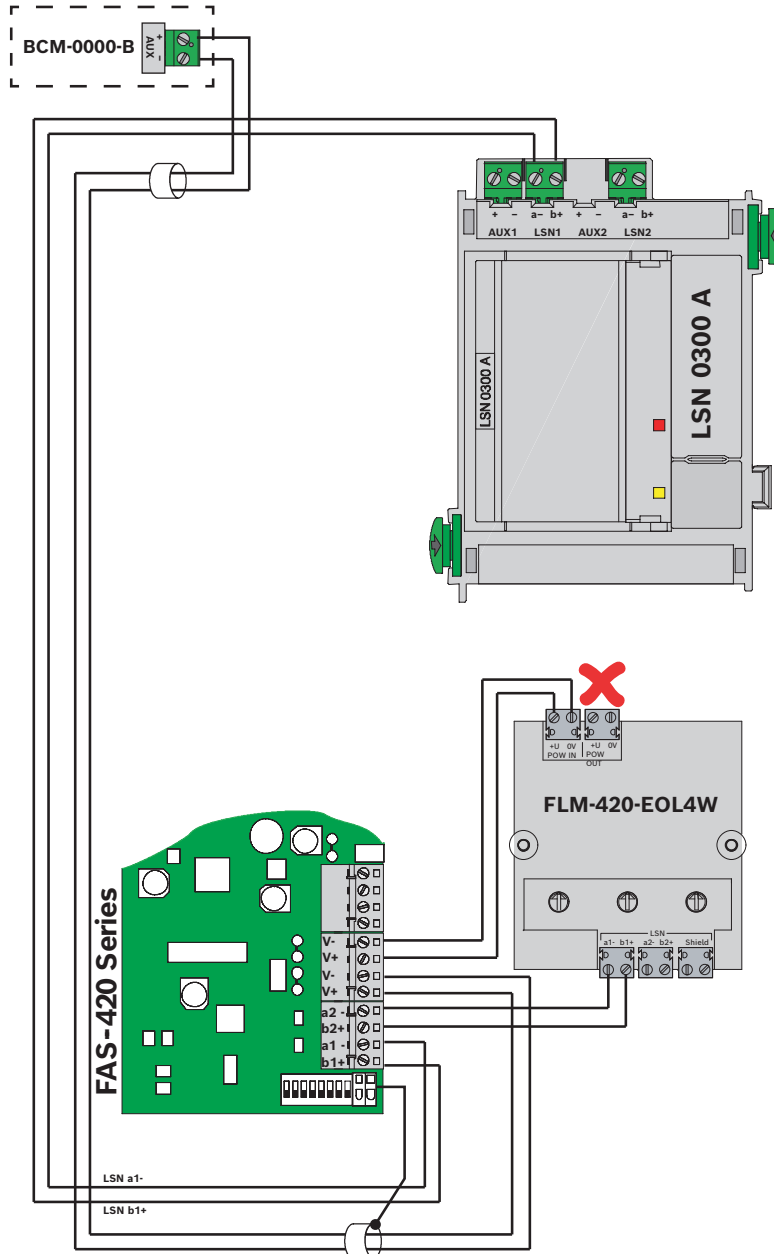


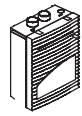


FAS-420 Series

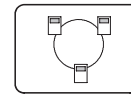


ELS

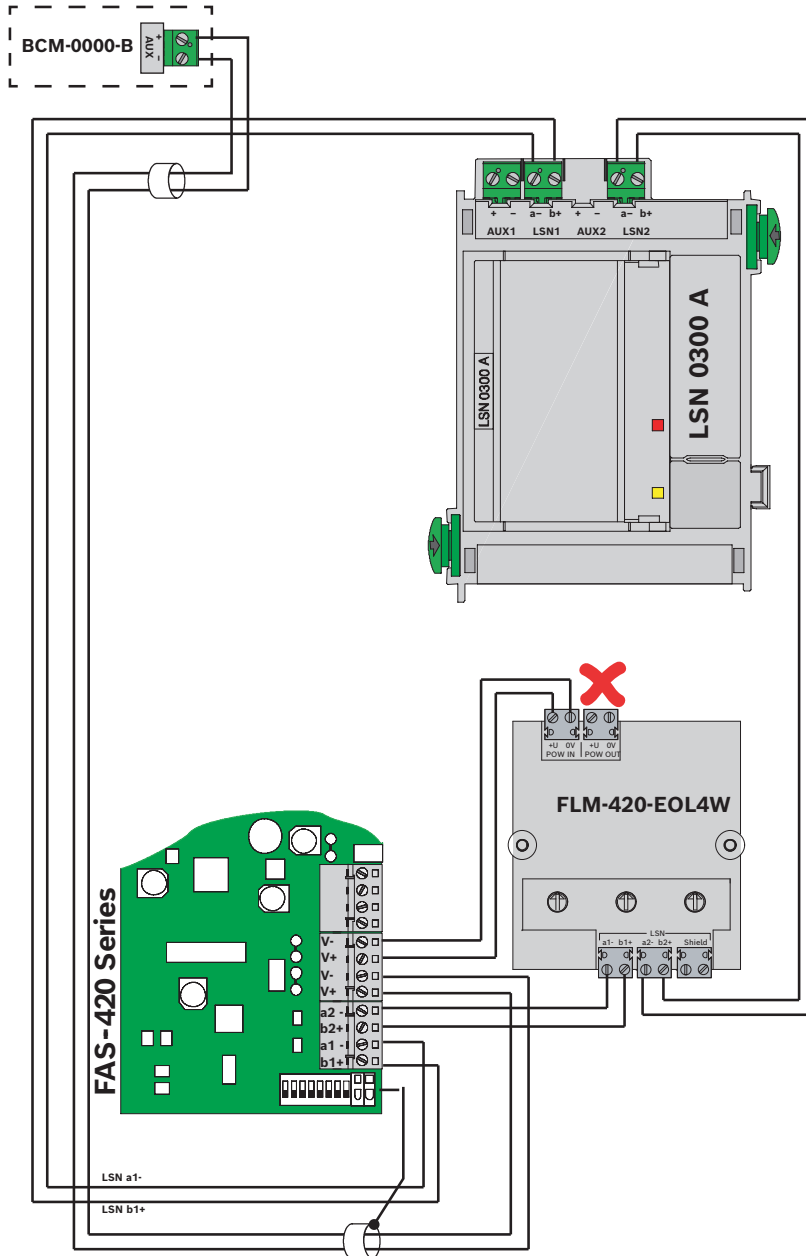


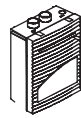


FAS-420 Series

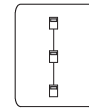


ELS

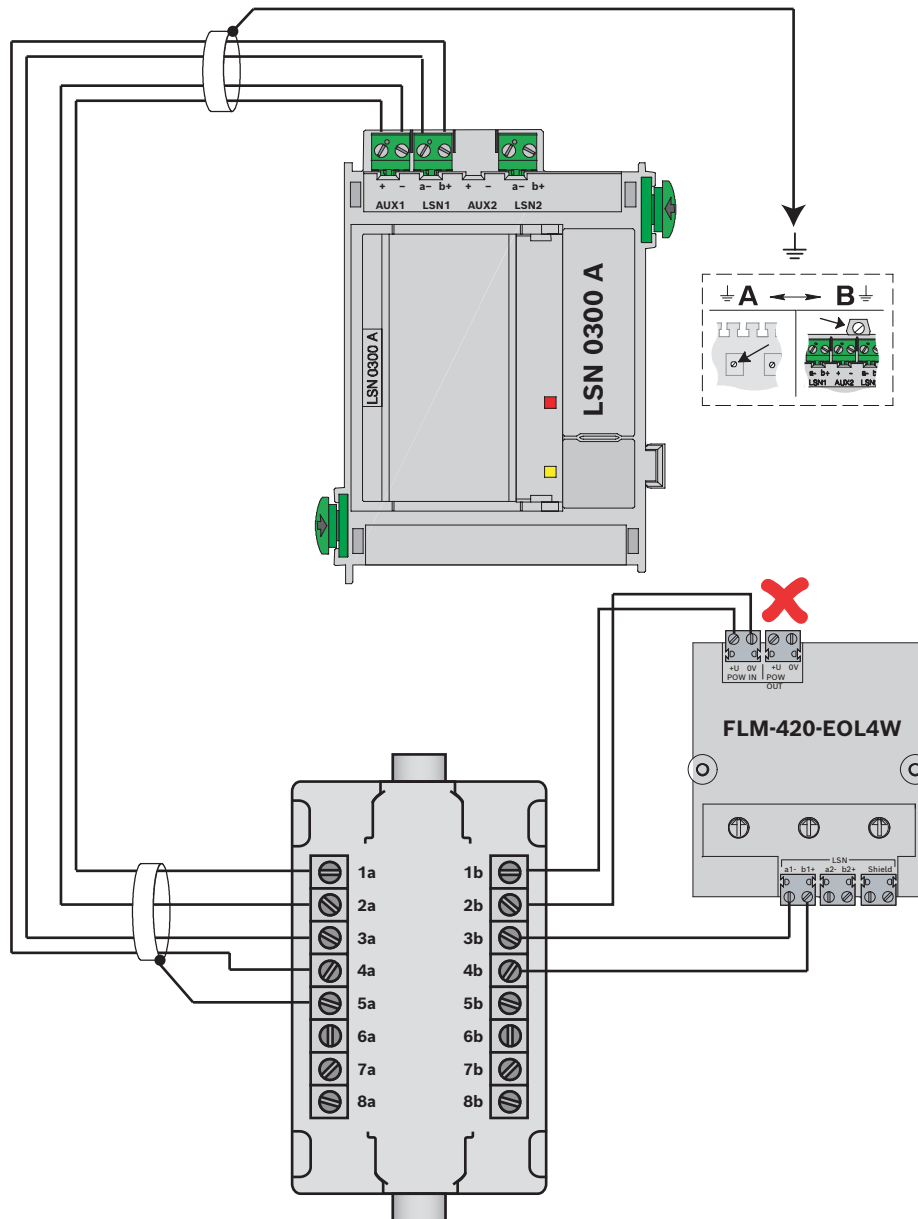


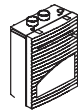


FAS-420-TM Series

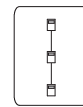


ELS

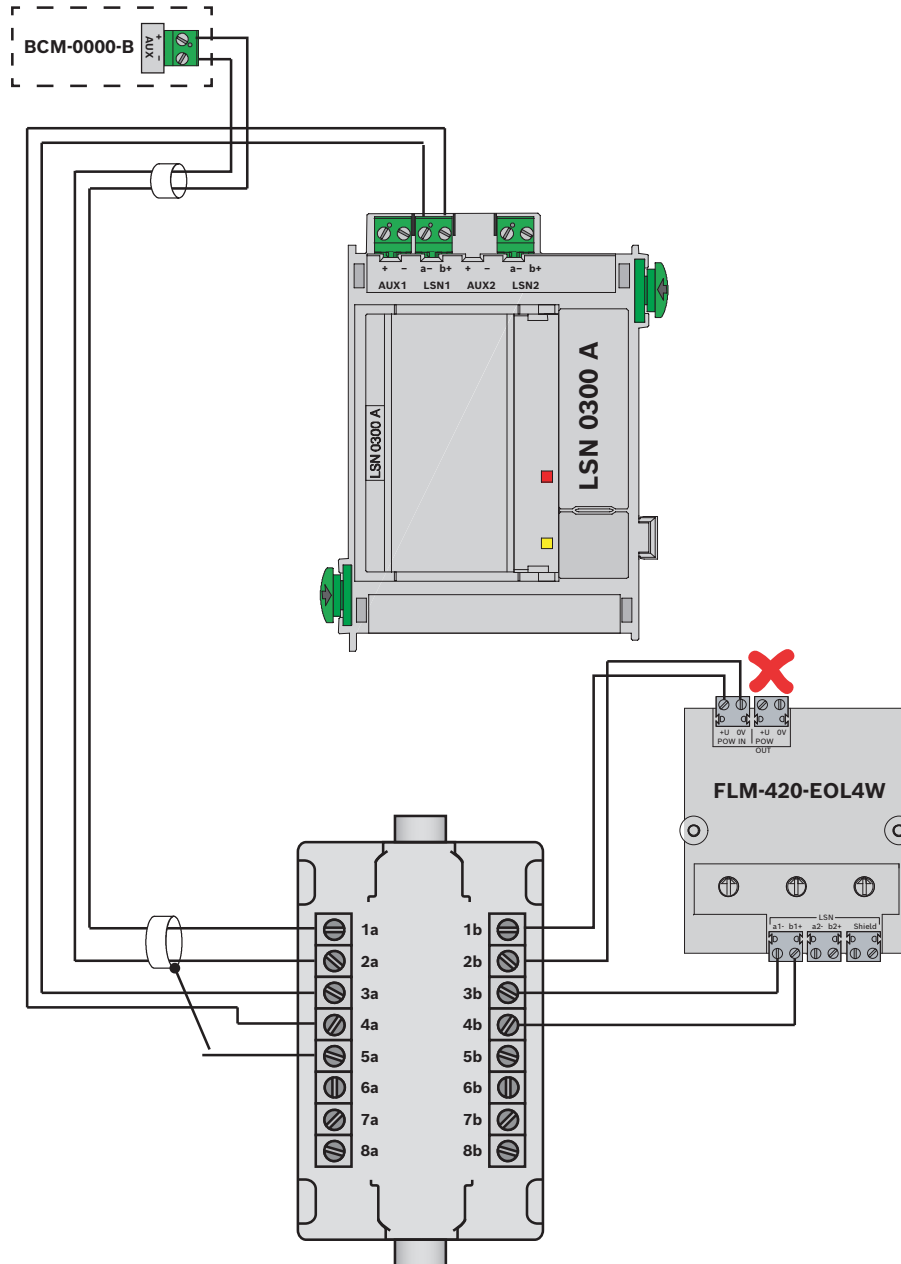


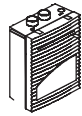


FAS-420-TM Series

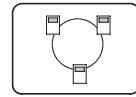


ELS

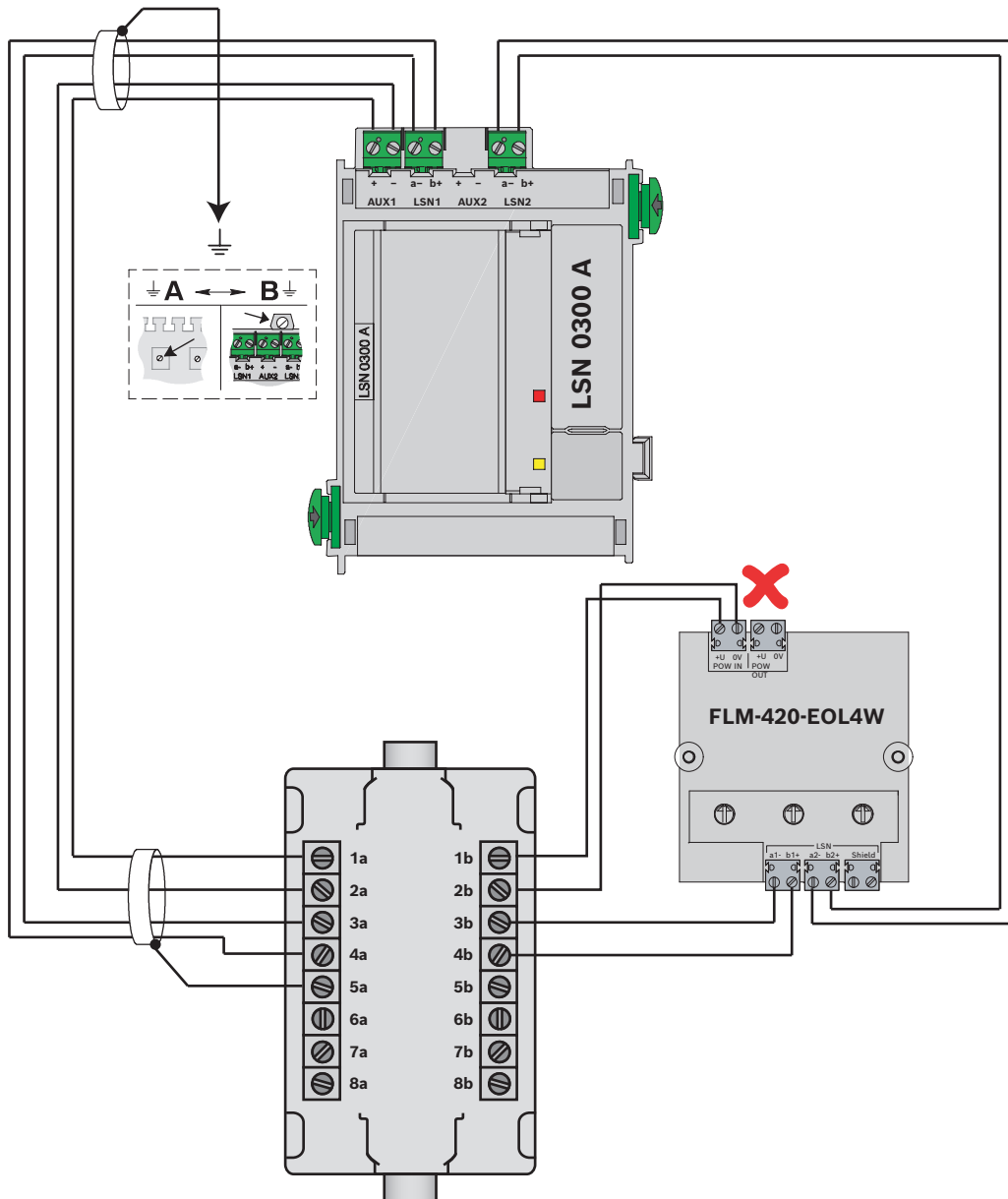


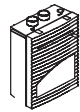


FAS-420-TM Series

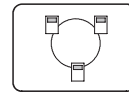


ELS

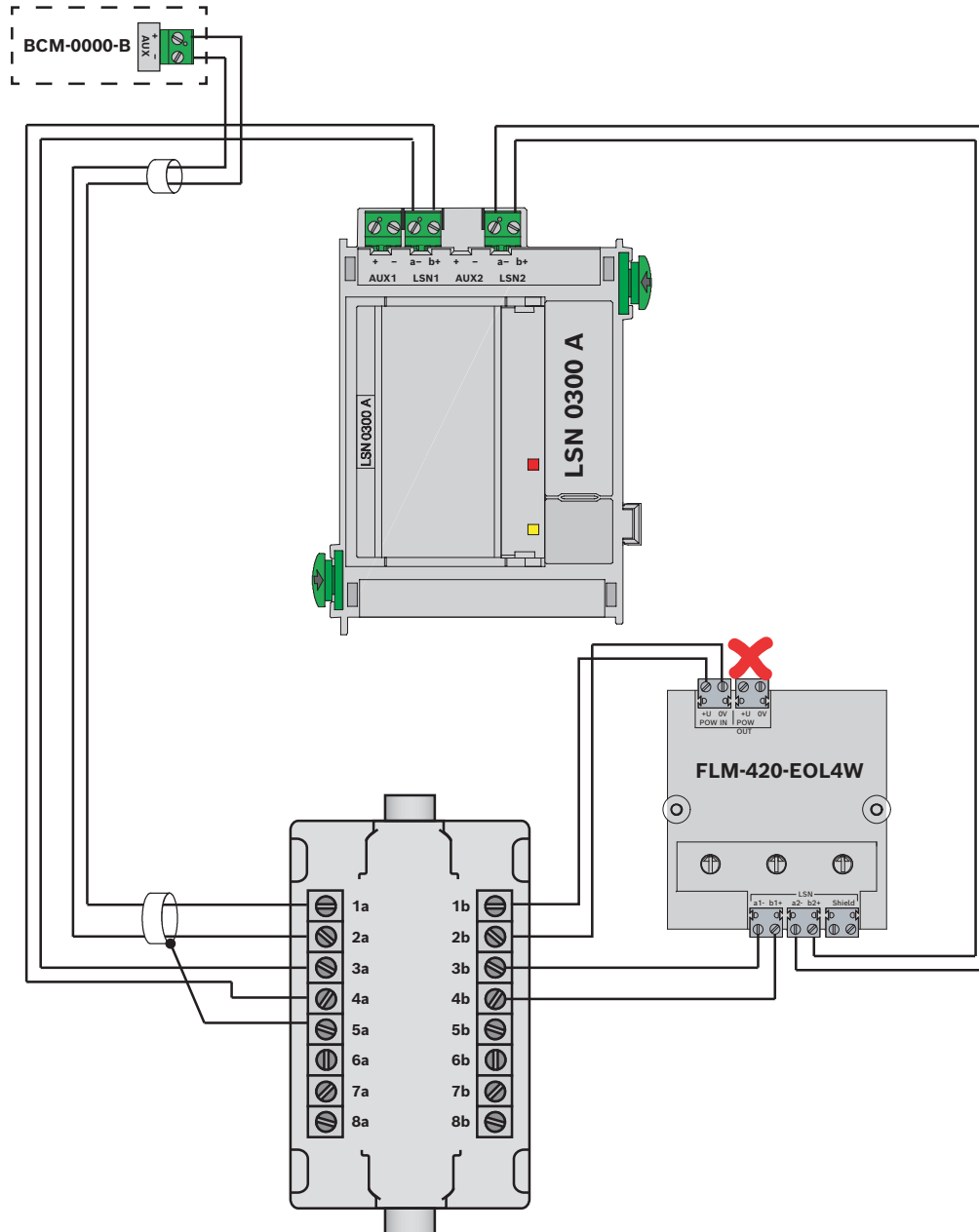




FAS-420-TM Series

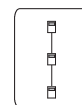


ELS

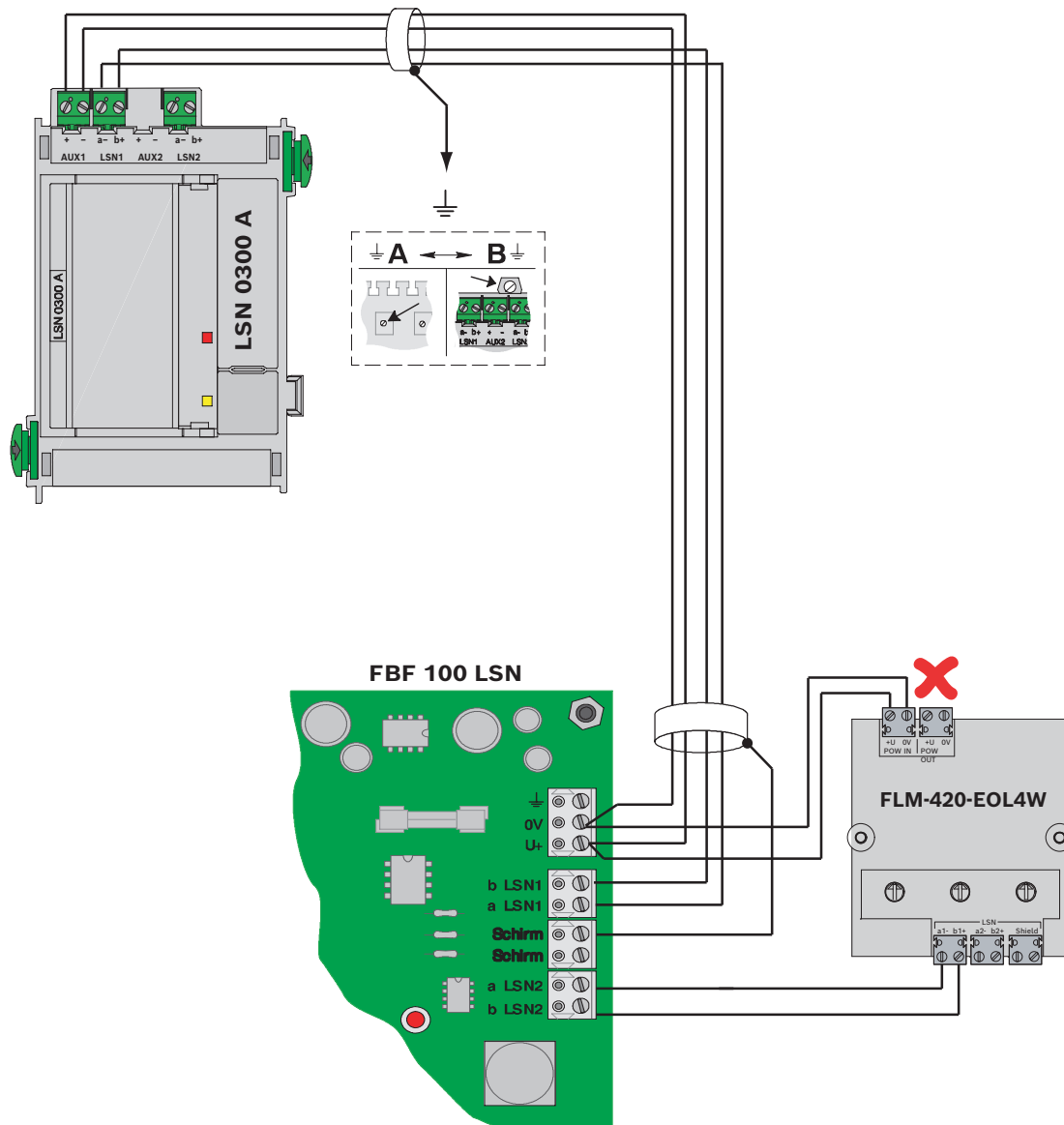


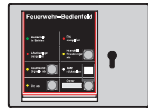


FBF 100 LSN

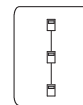


ELS

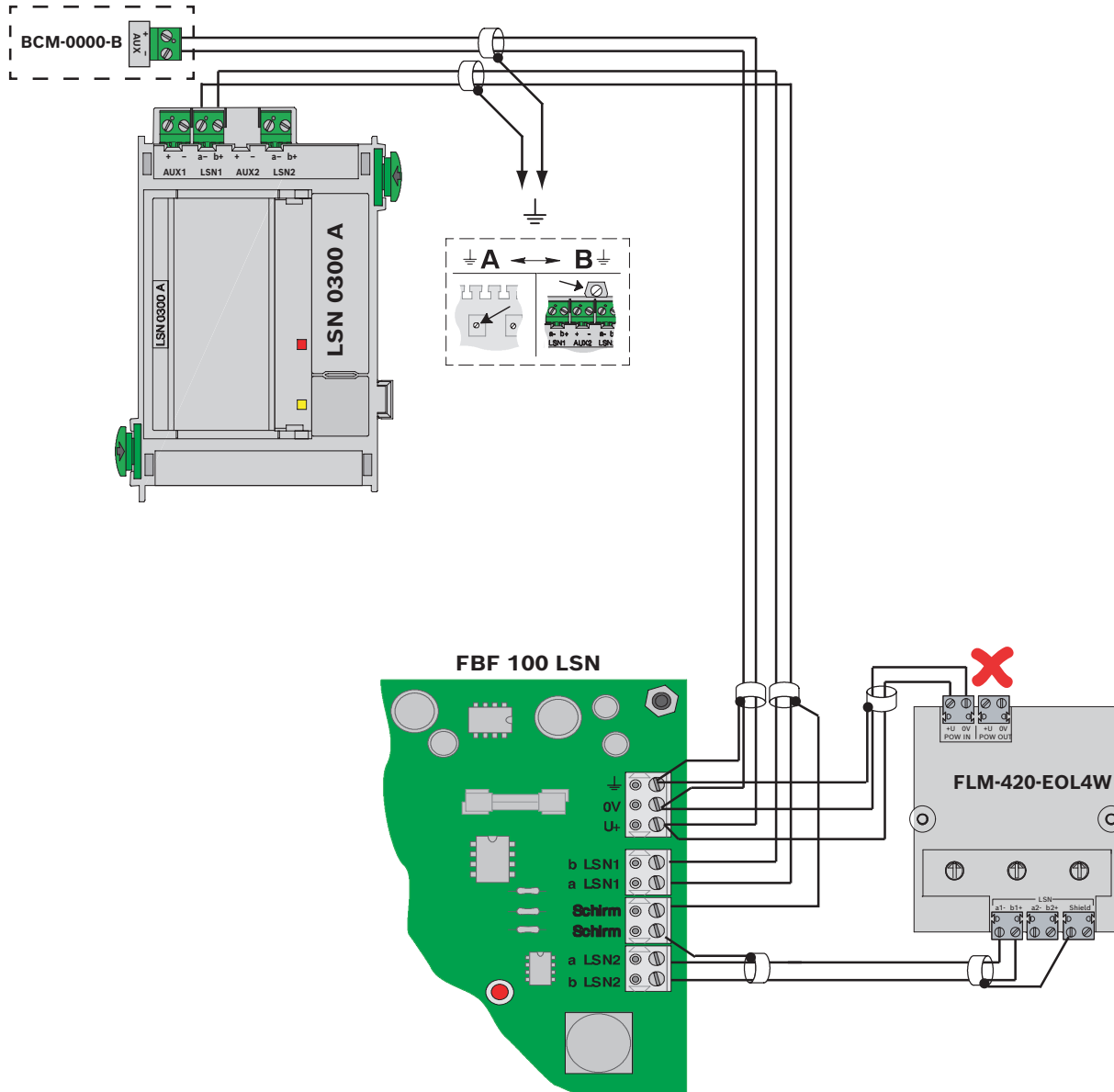




FBF 100 LSN

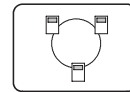


ELS

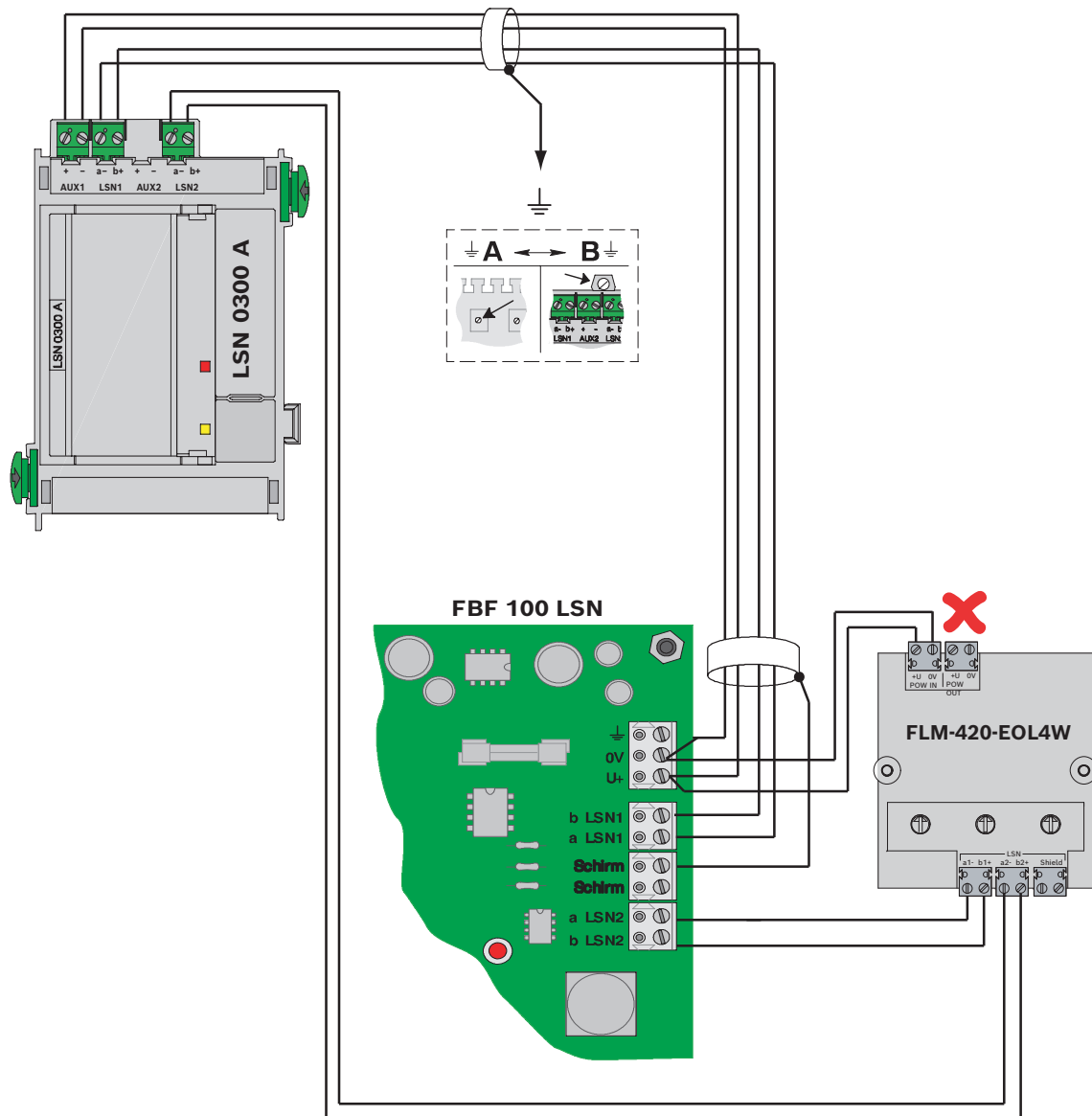




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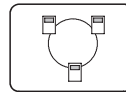


ELS

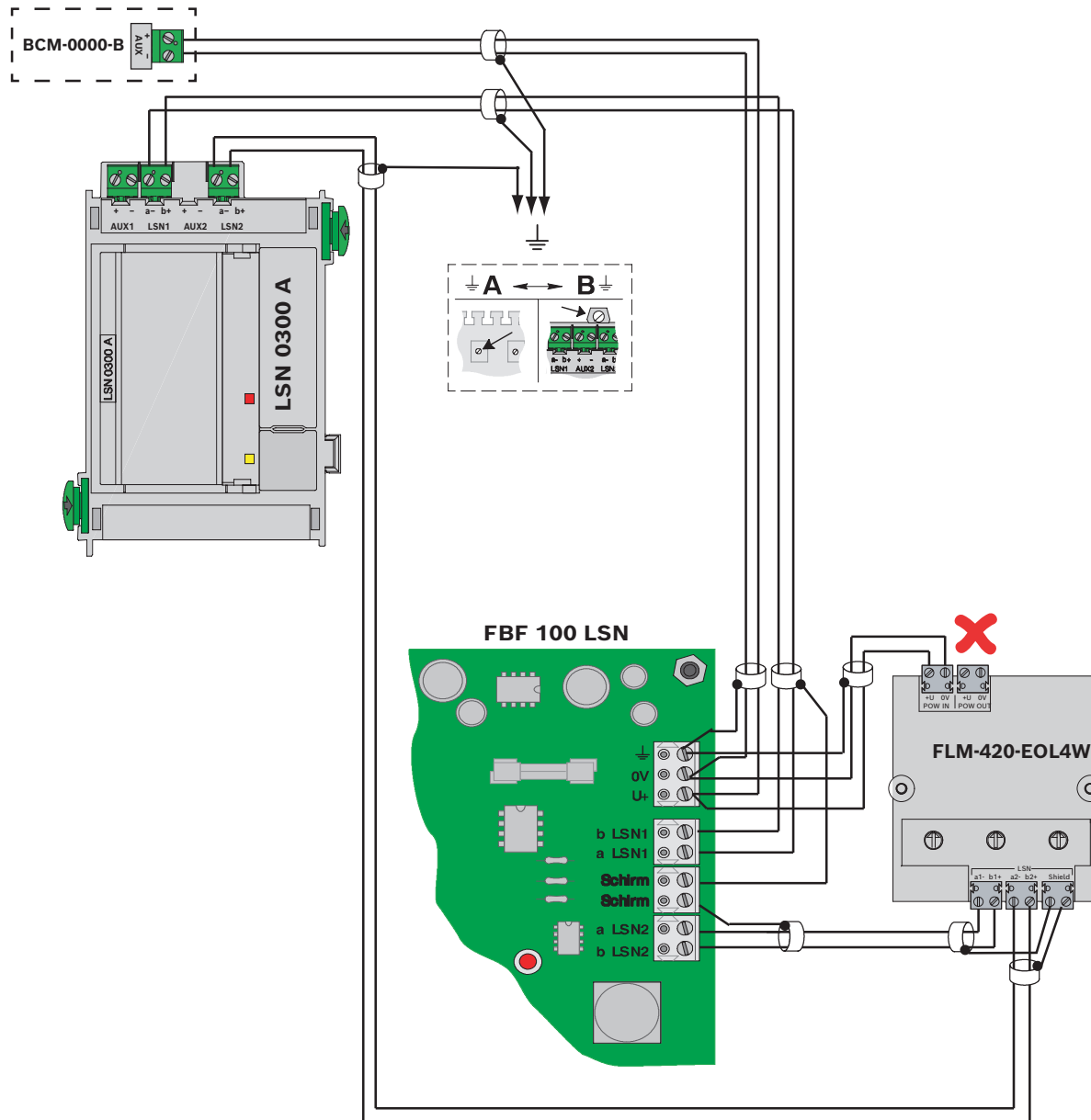


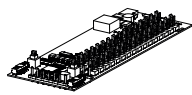


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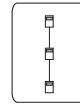


ELS

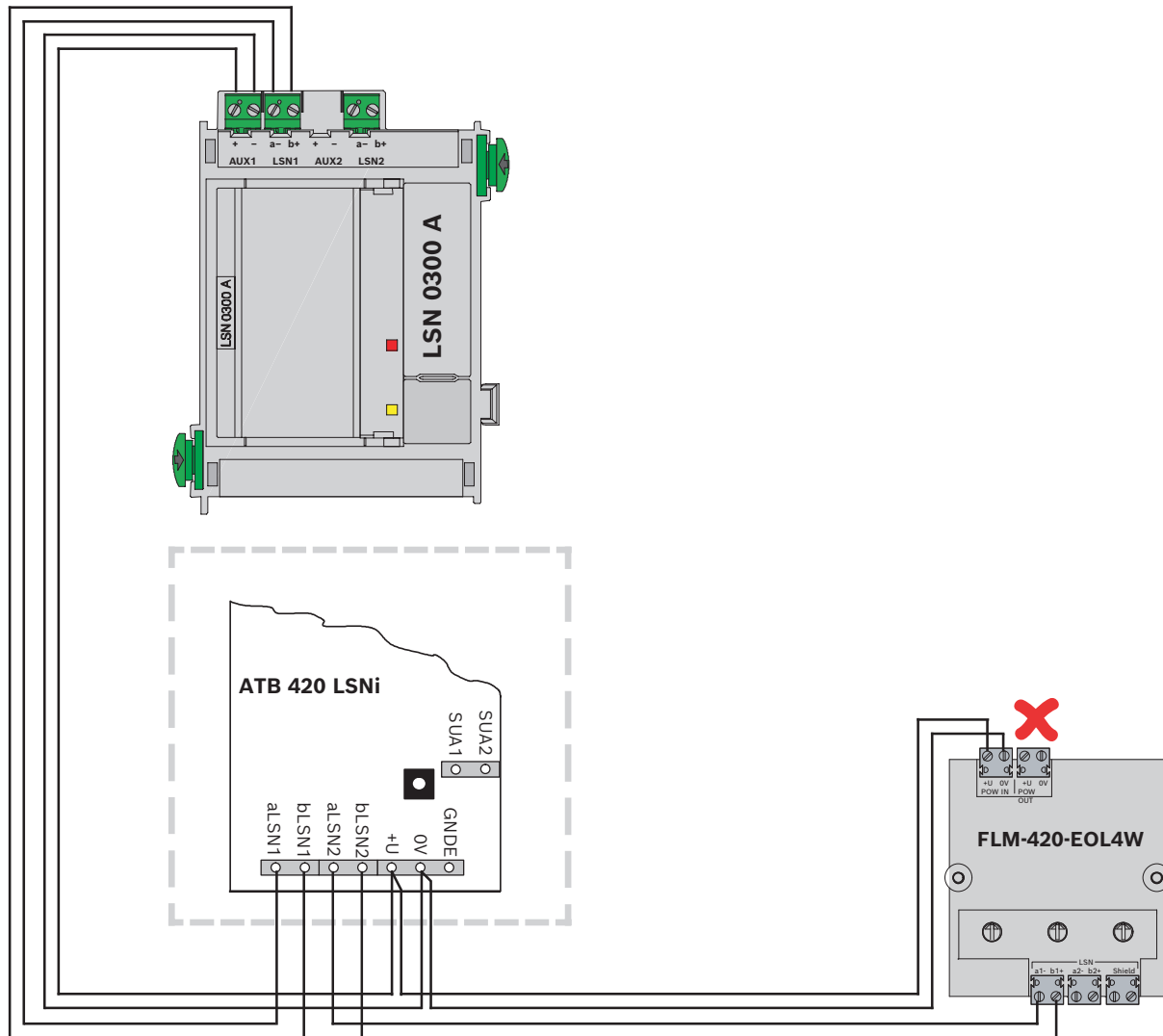


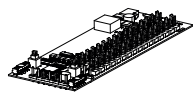


ATB 420 LSNi

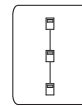


ELS

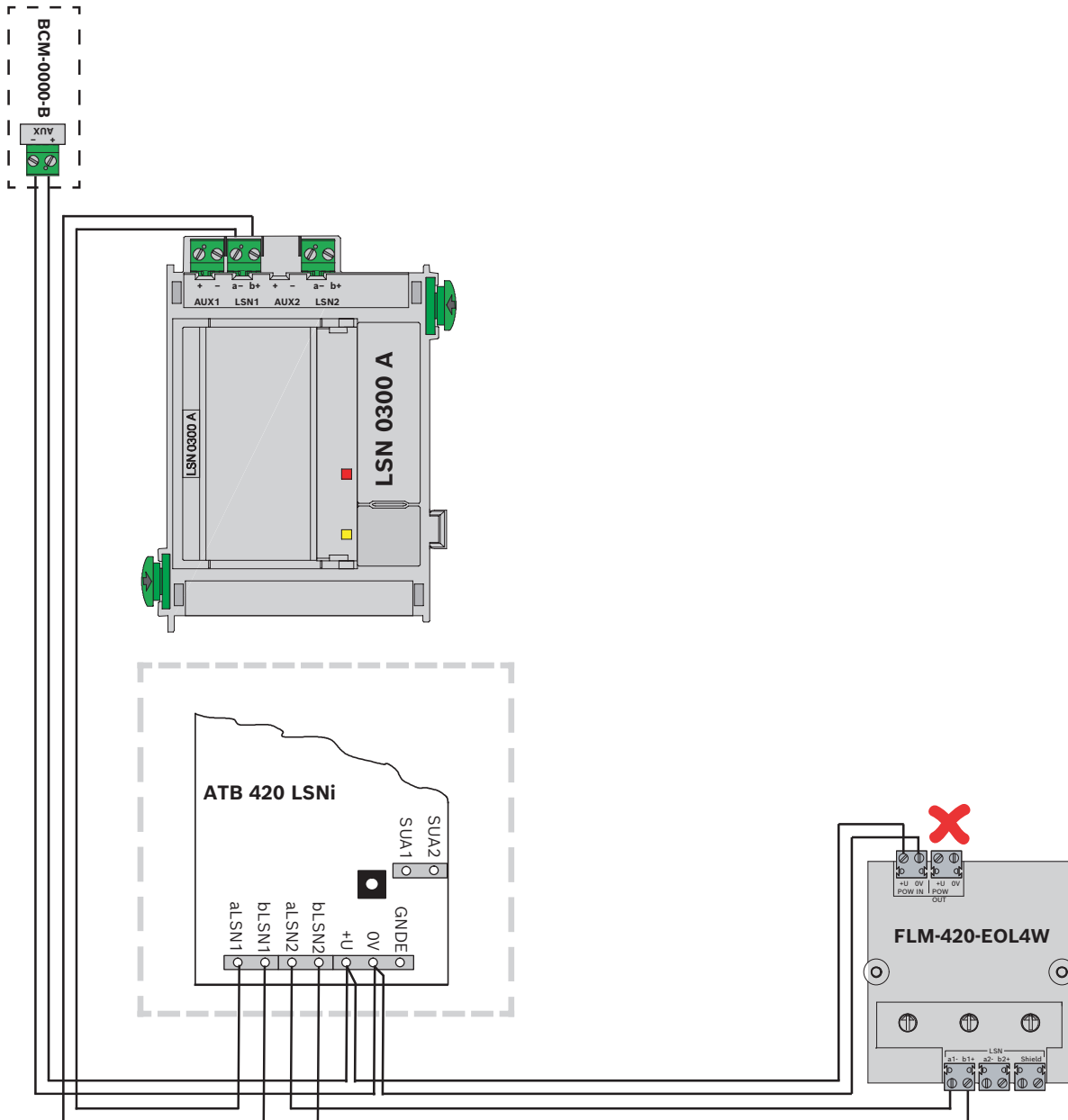


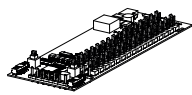


ATB 420 LSNi

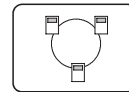


ELS

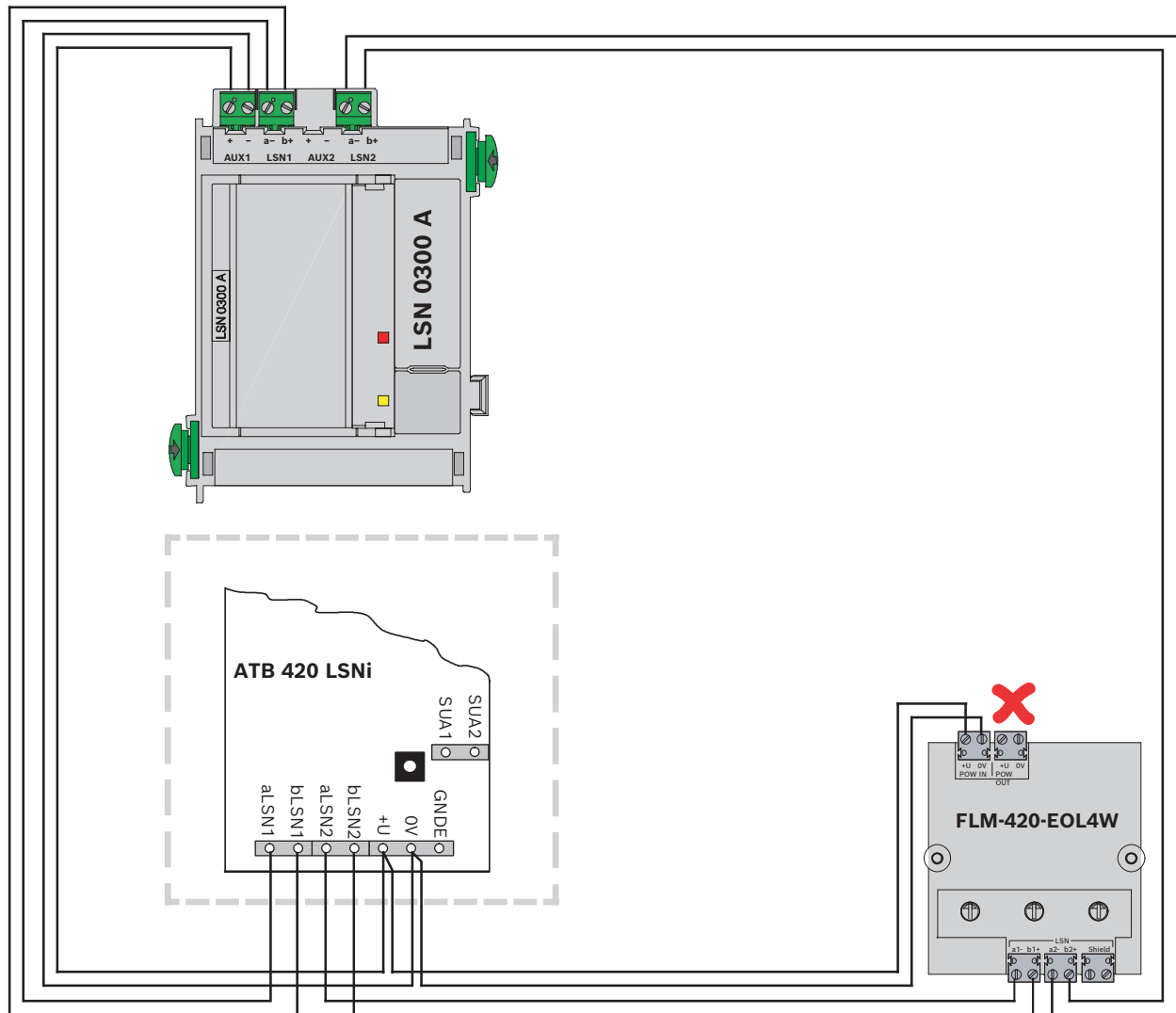


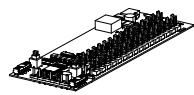


ATB 420 LSNi

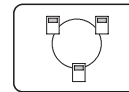


ELS

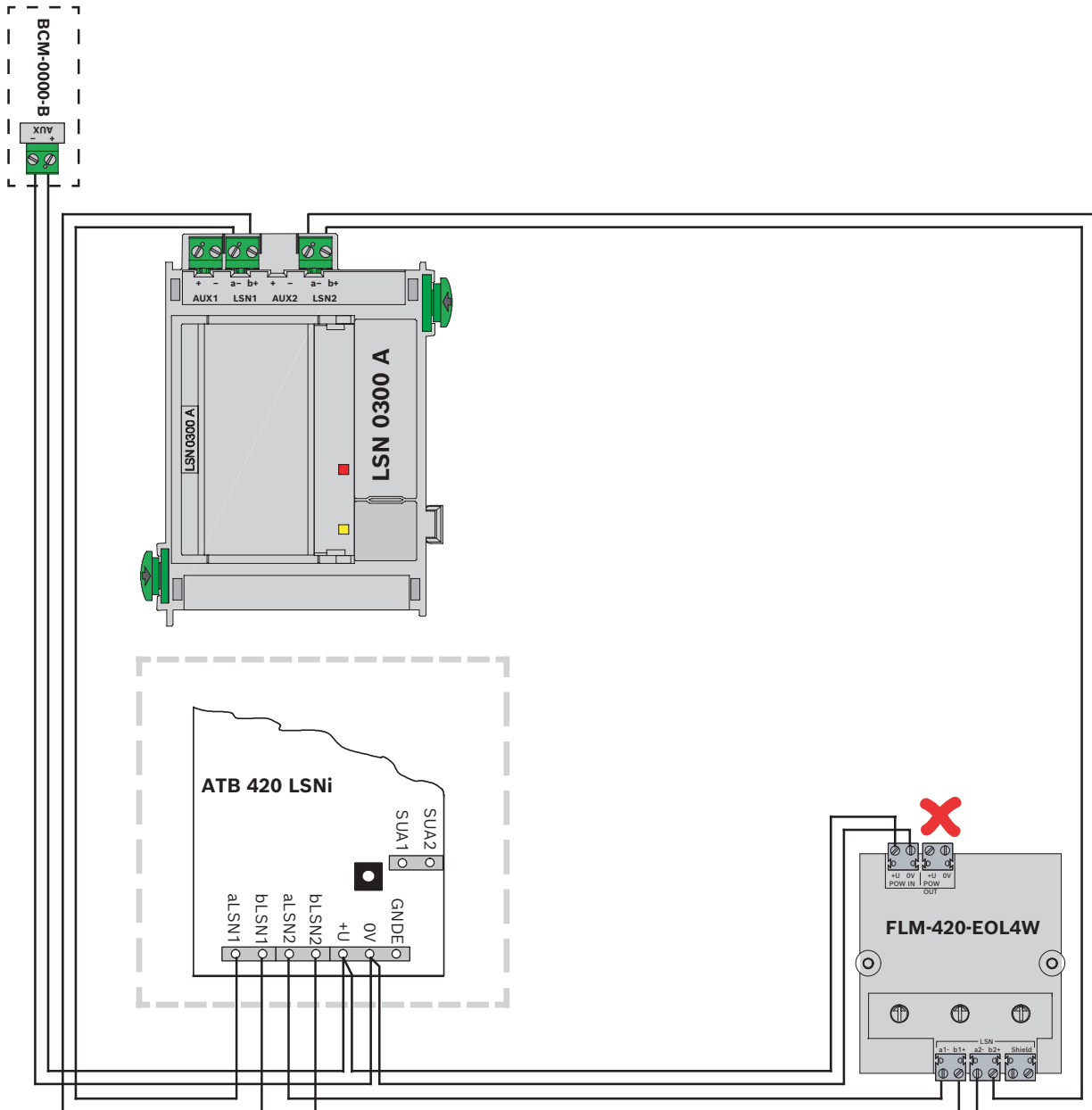




ATB 420 LSNi

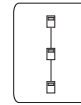


ELS

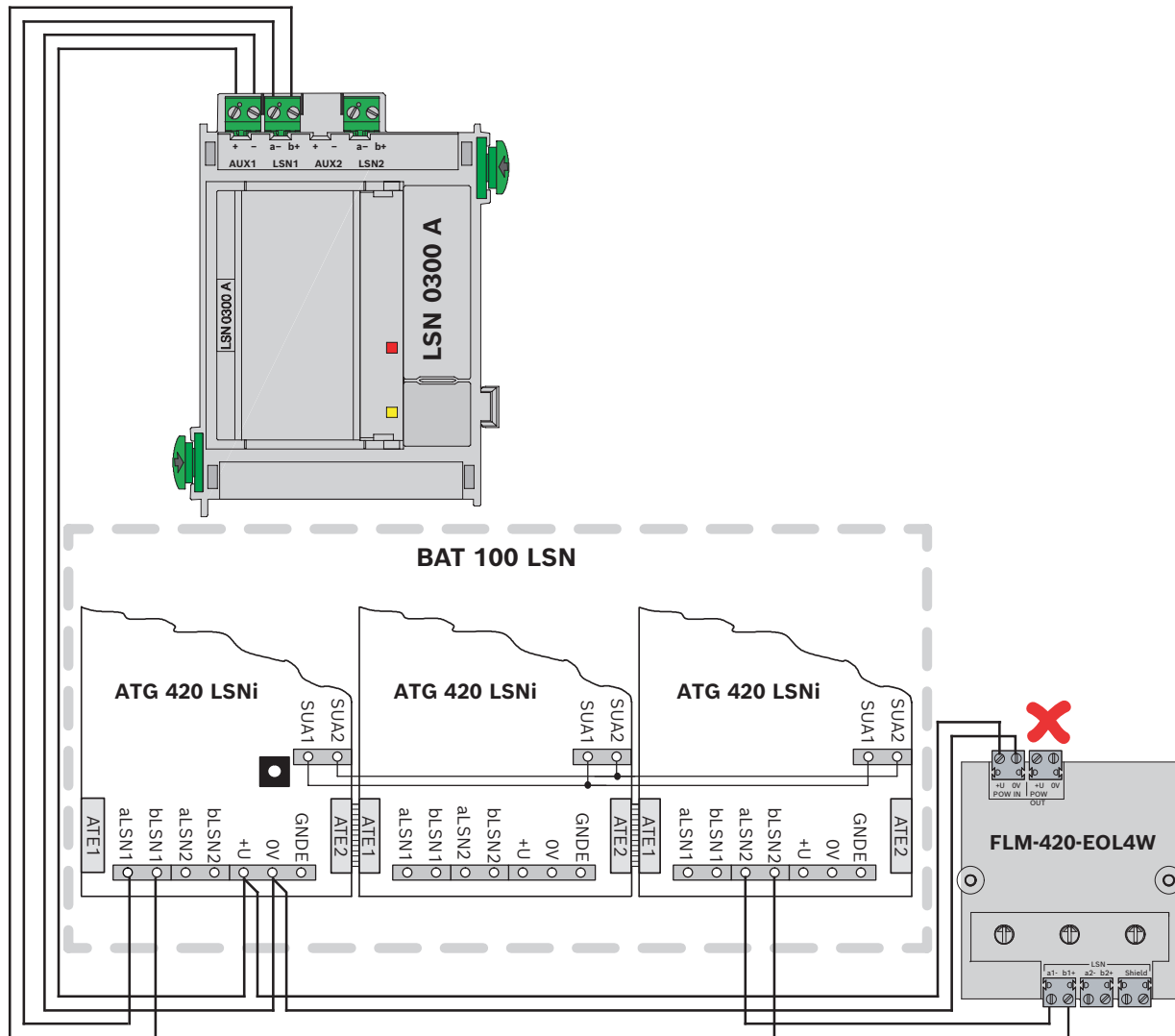




**BAT 100 LSN
ATG 420 LSNi**

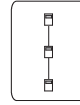


ELS

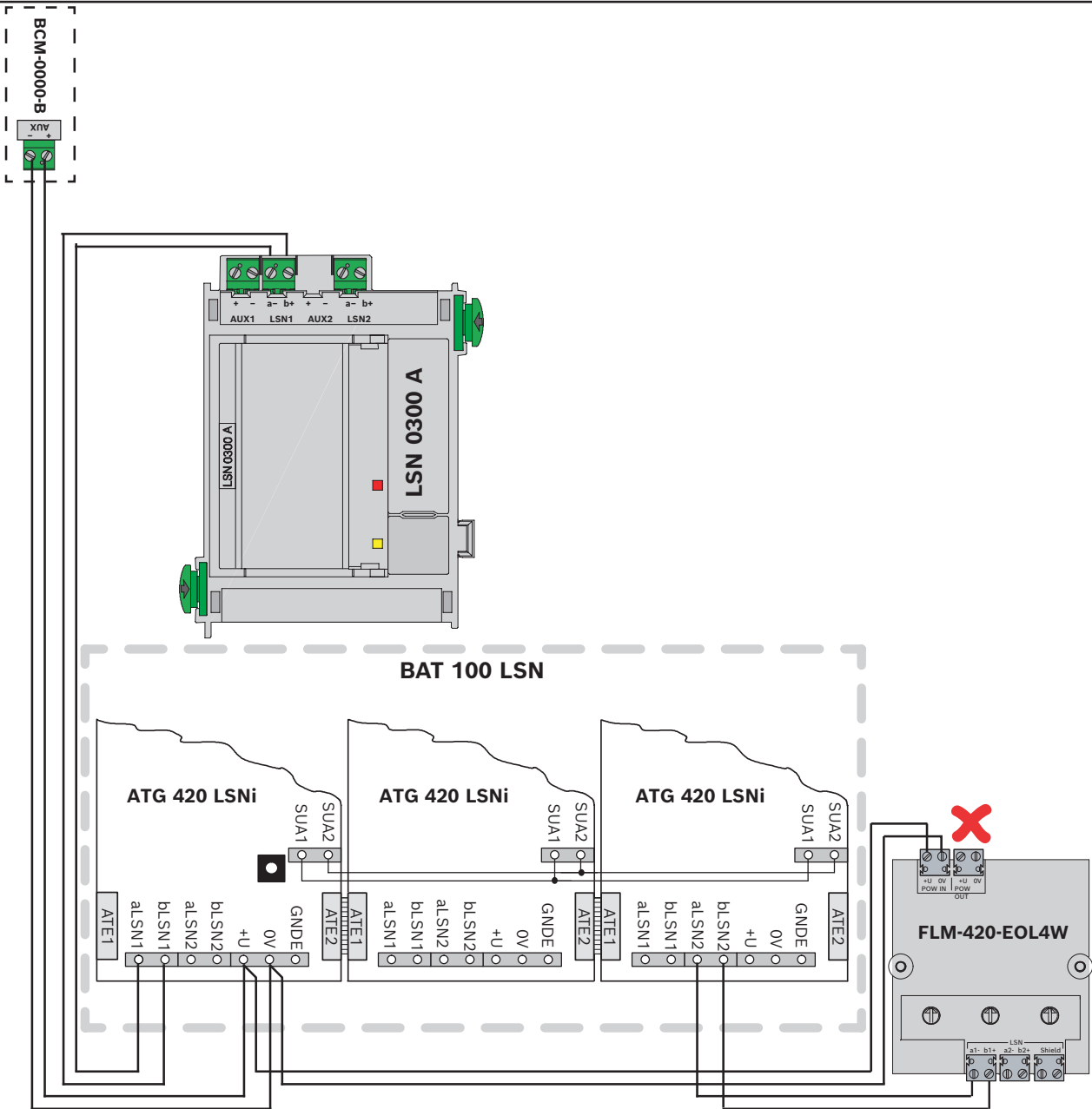




BAT 100 LSN
ATG 420 LSNi

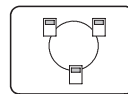


ELS

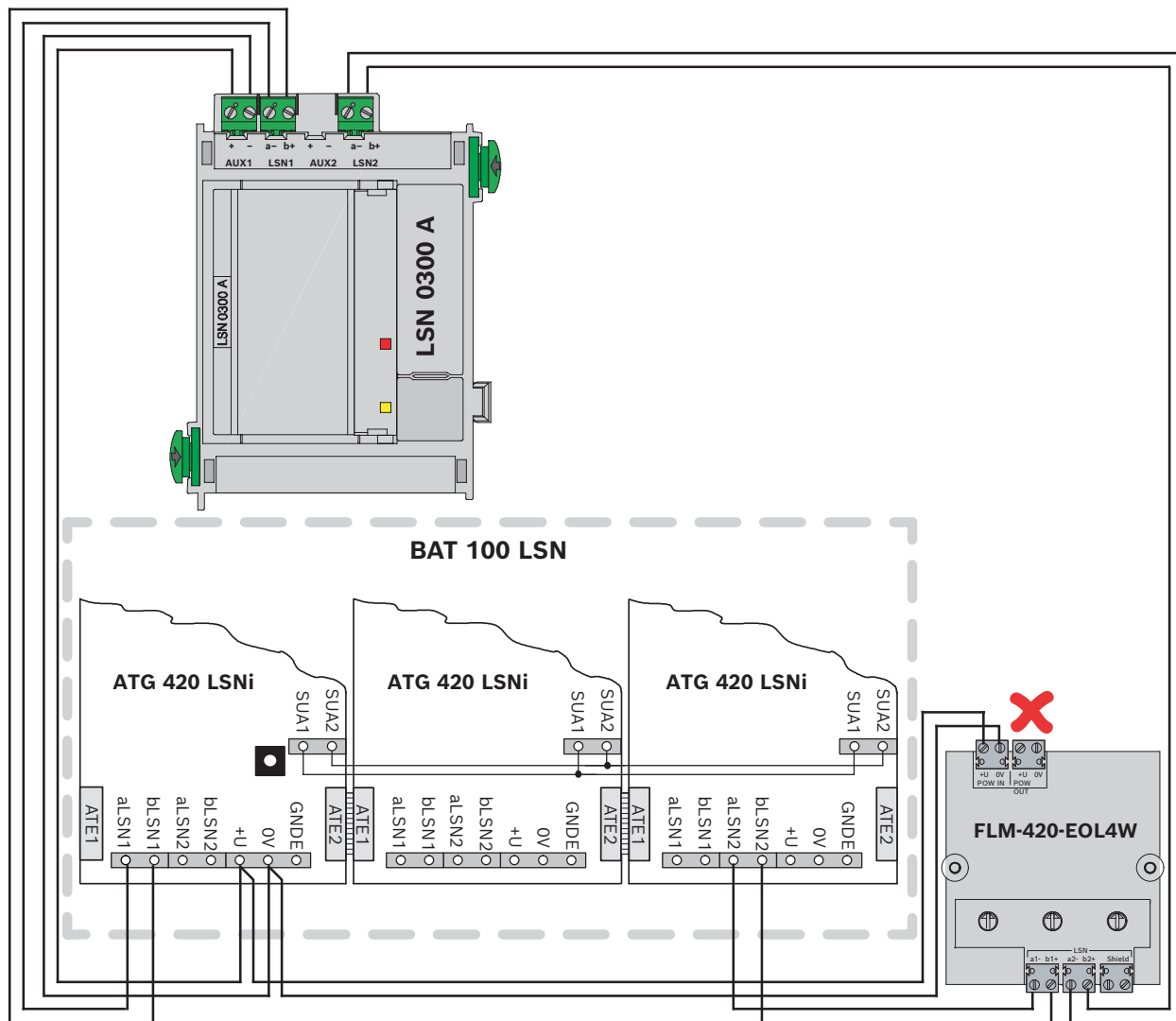




**BAT 100 LSN
ATG 420 LSNi**

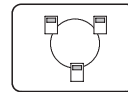


ELS

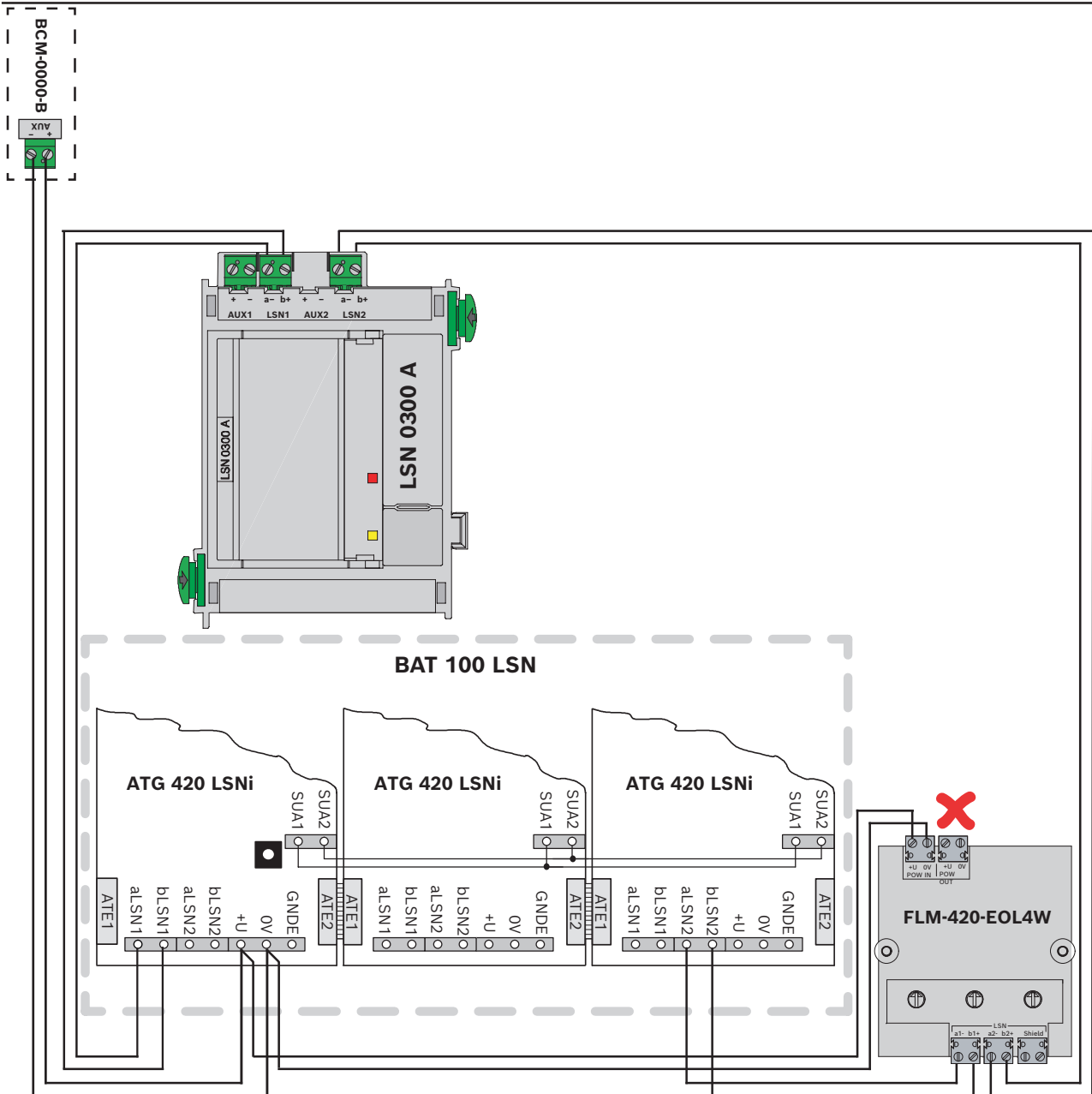




**BAT 100 LSN
ATG 420 LSNi**



ELS

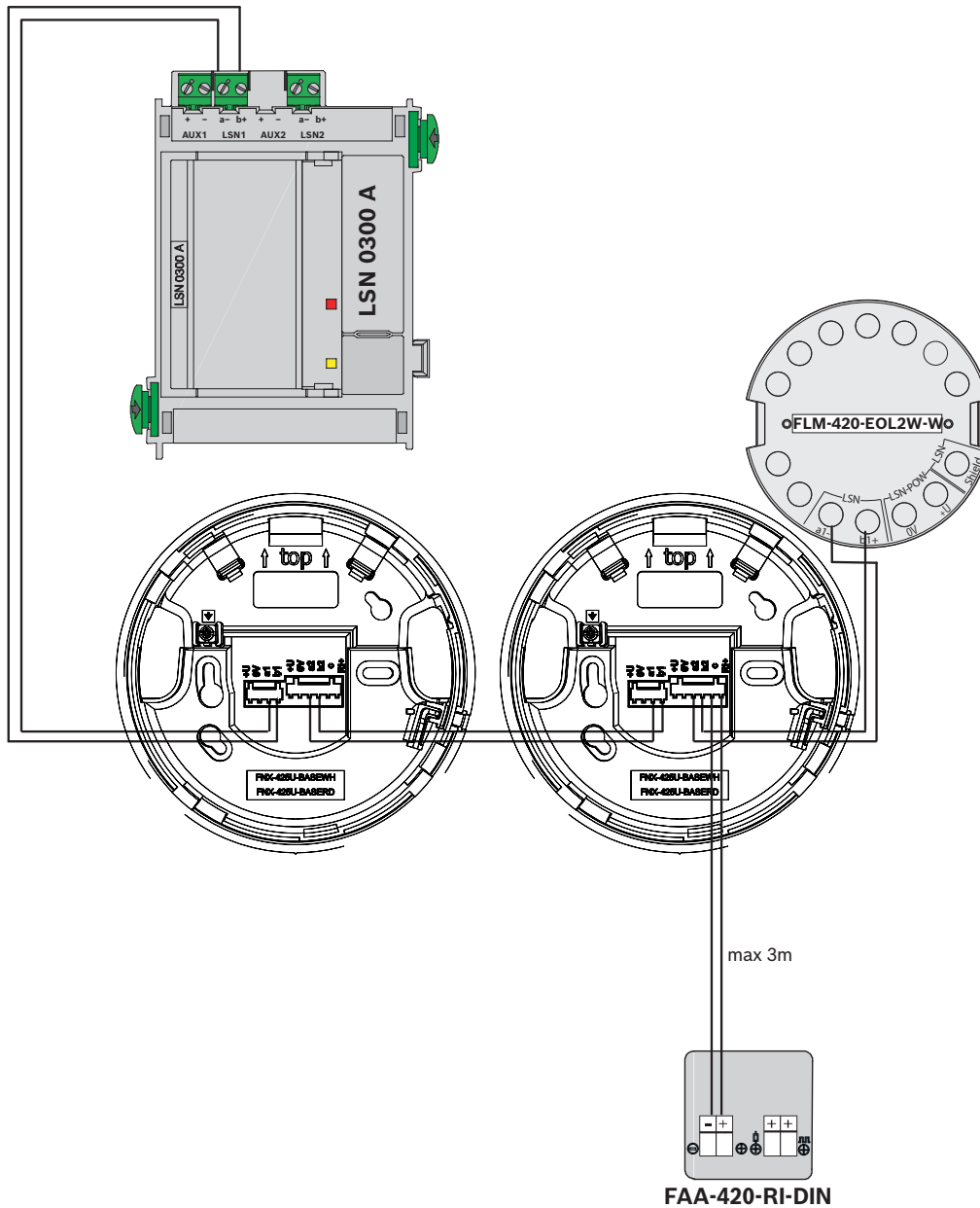




FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD



ELS



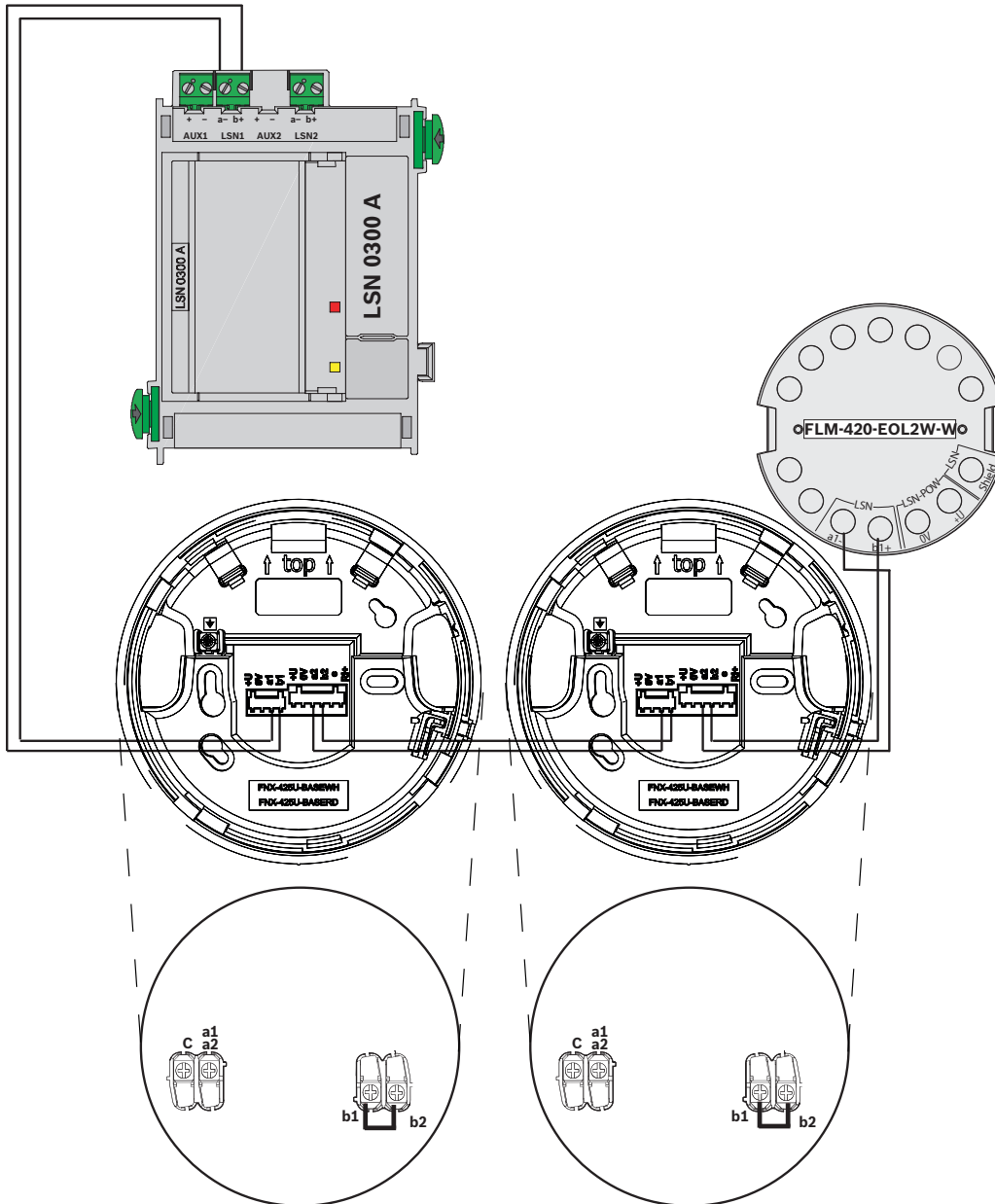


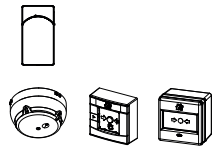
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

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



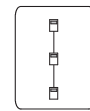
ELS



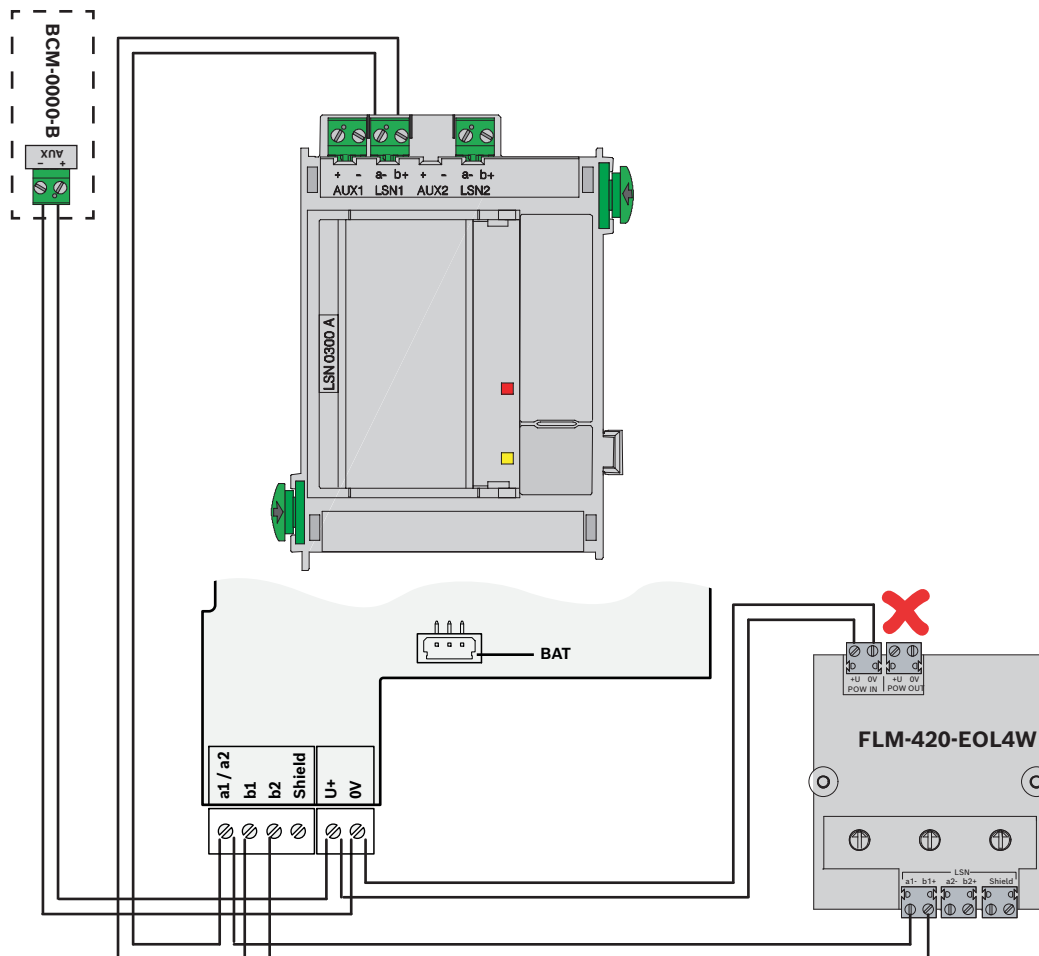


FWI-270

FDOOT271-O
FDM275-O
FDM273-O



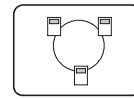
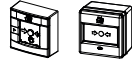
ELS



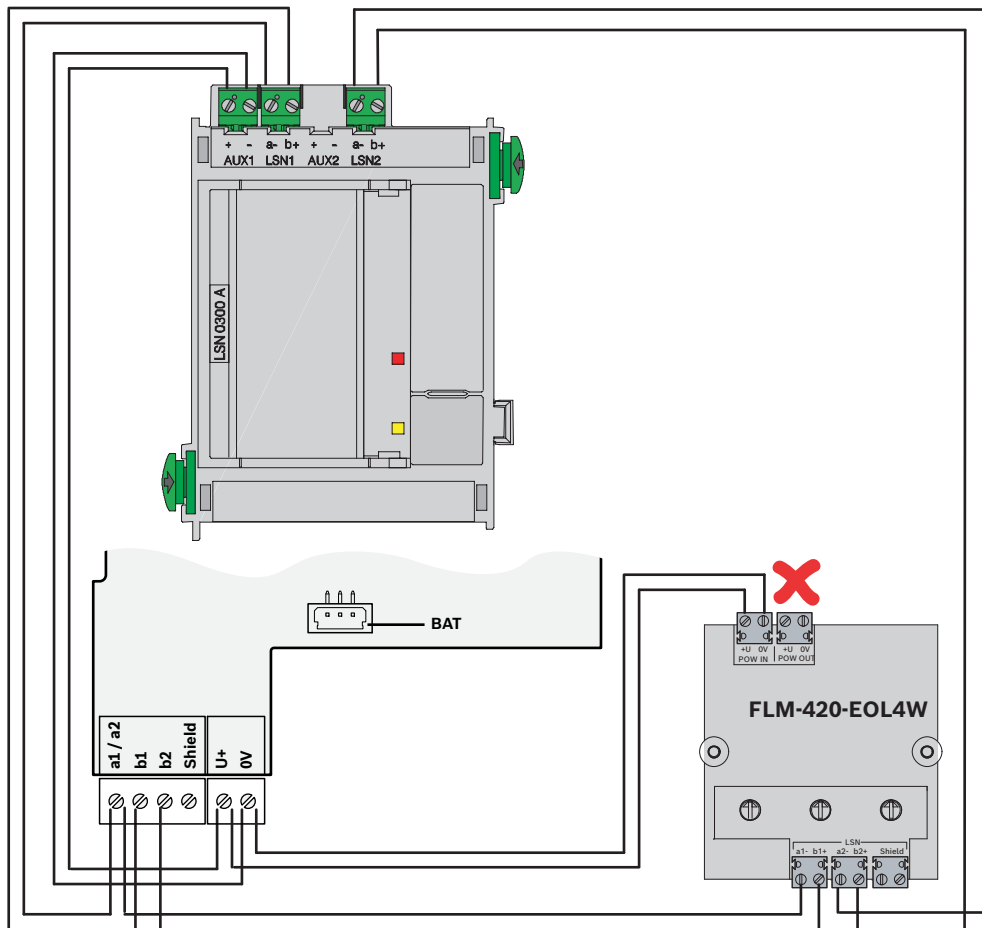


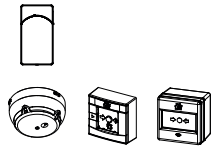
FWI-270

FDOOT271-O
FDM275-O
FDM273-O



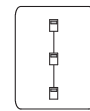
ELS



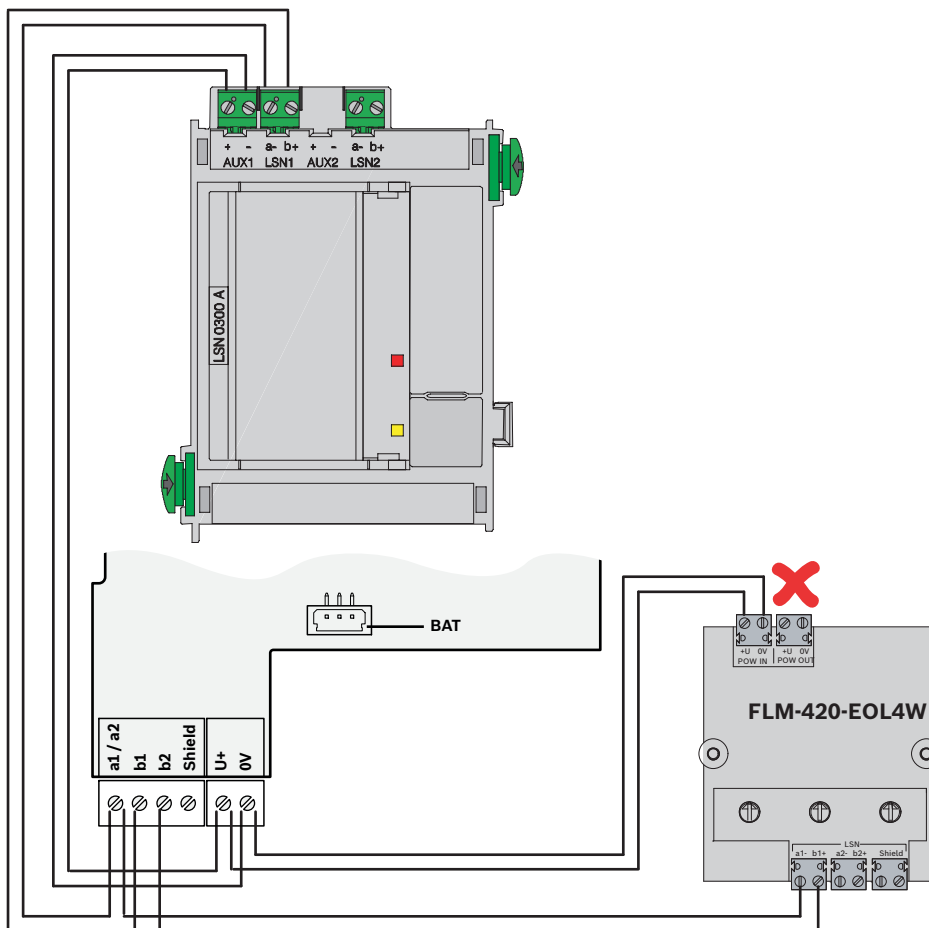


FWI-270

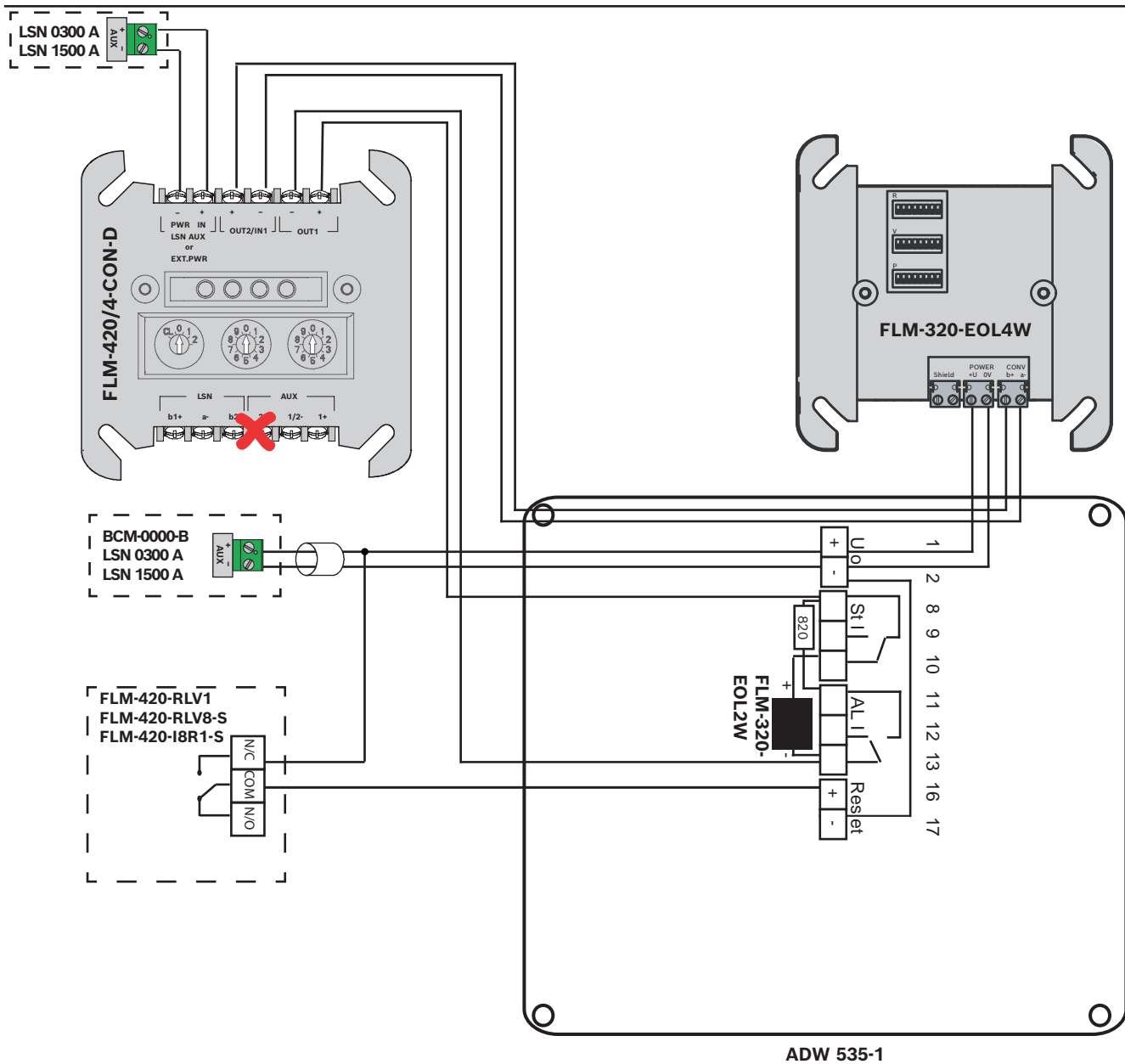
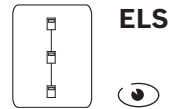
FDOOT271-O
FDM275-O
FDM273-O

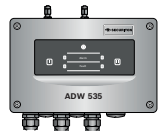


ELS

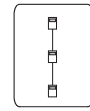


2.6.3 FLM-420/4-CON-S/D

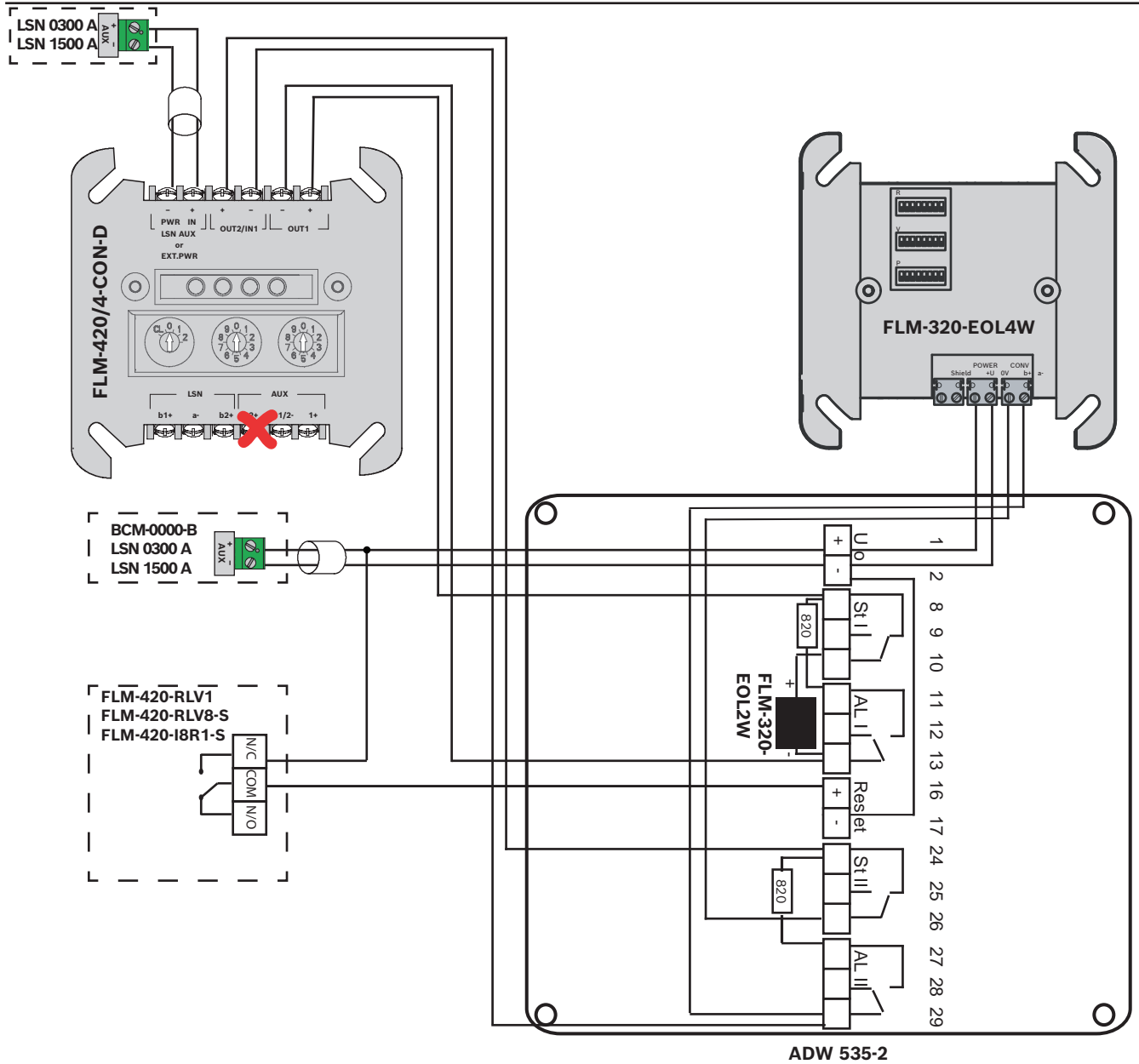


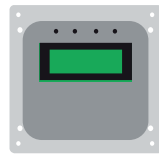


ADW 535-2



ELS

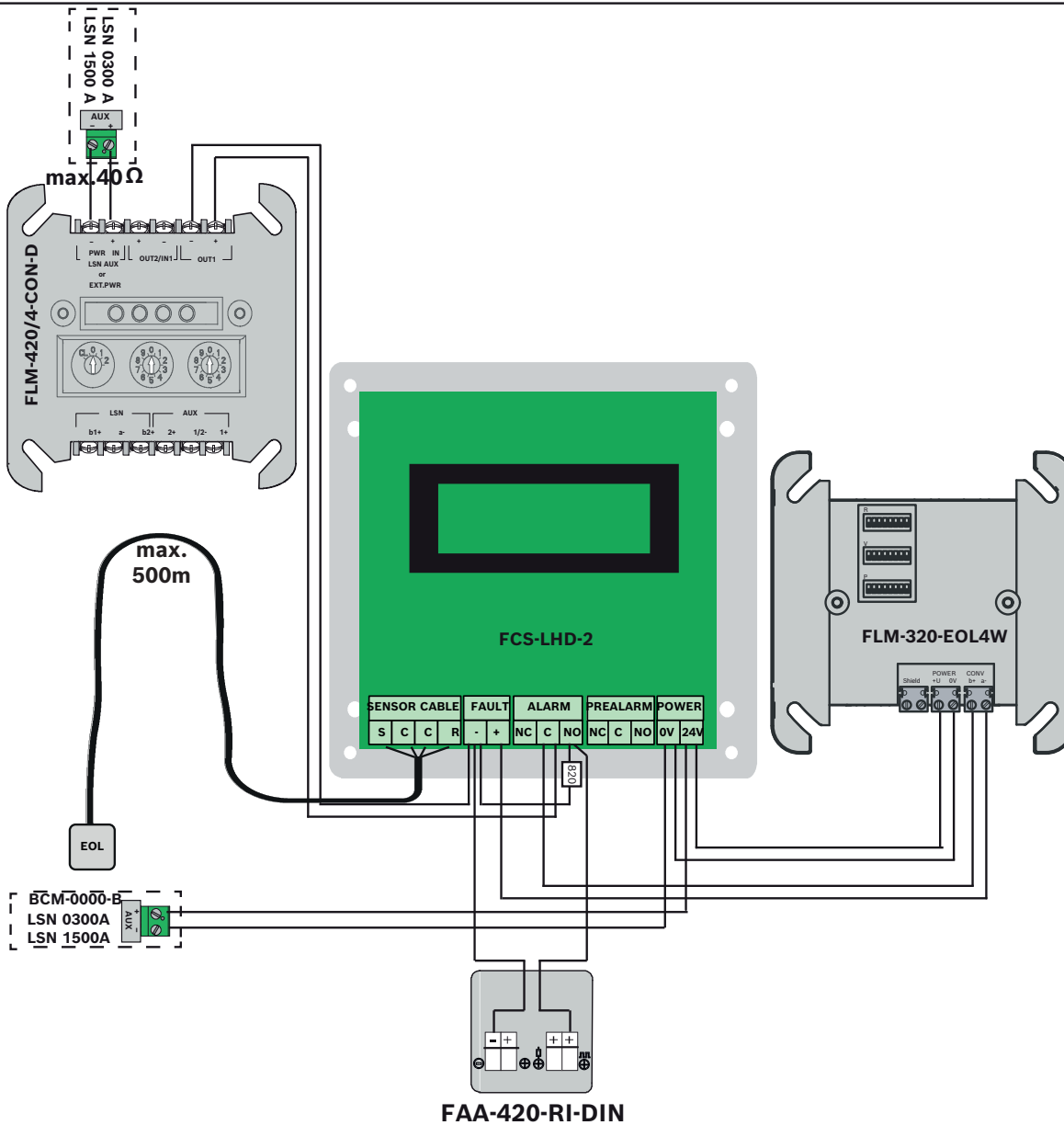




ALARMLINE II

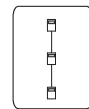


ELS

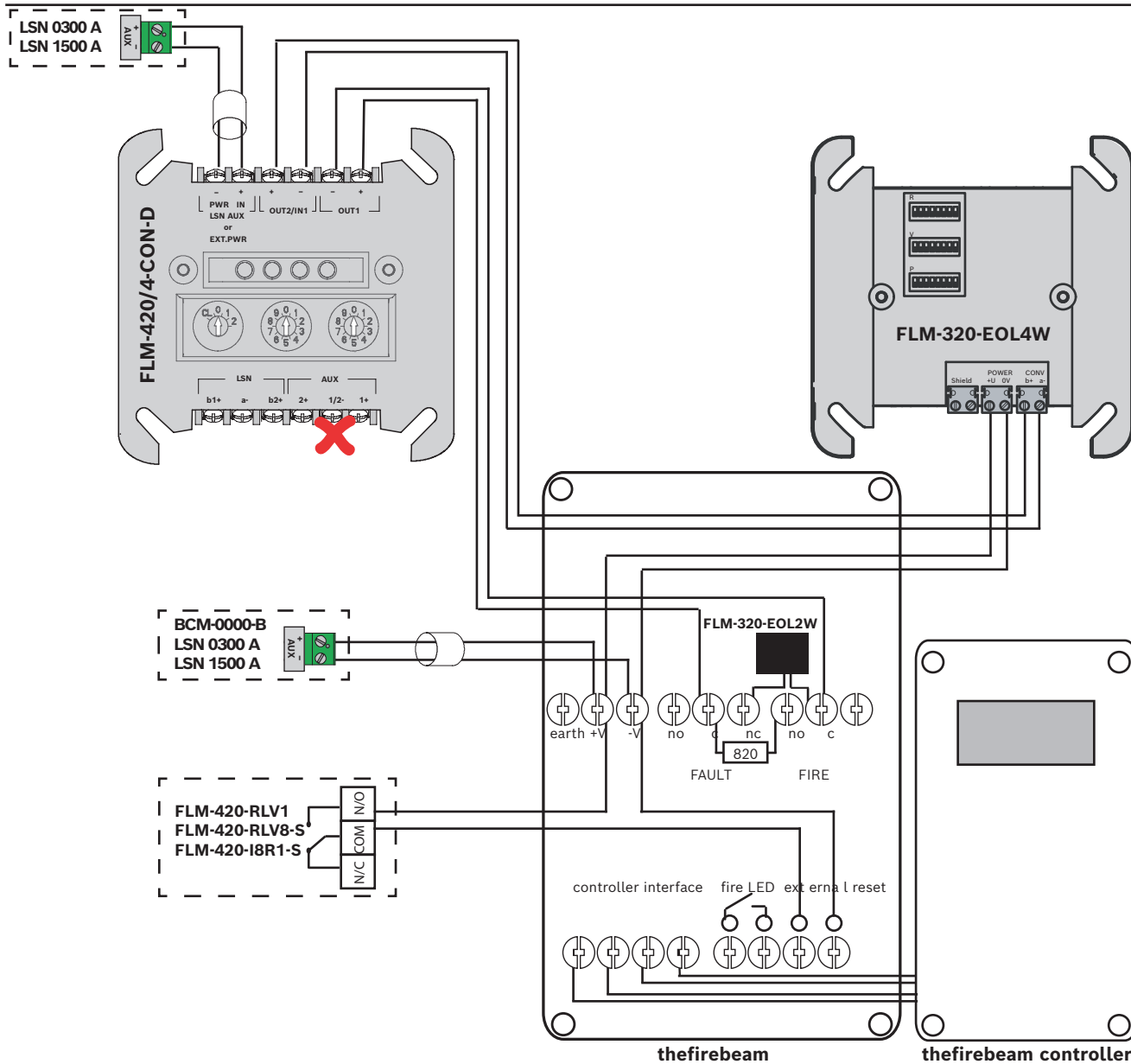


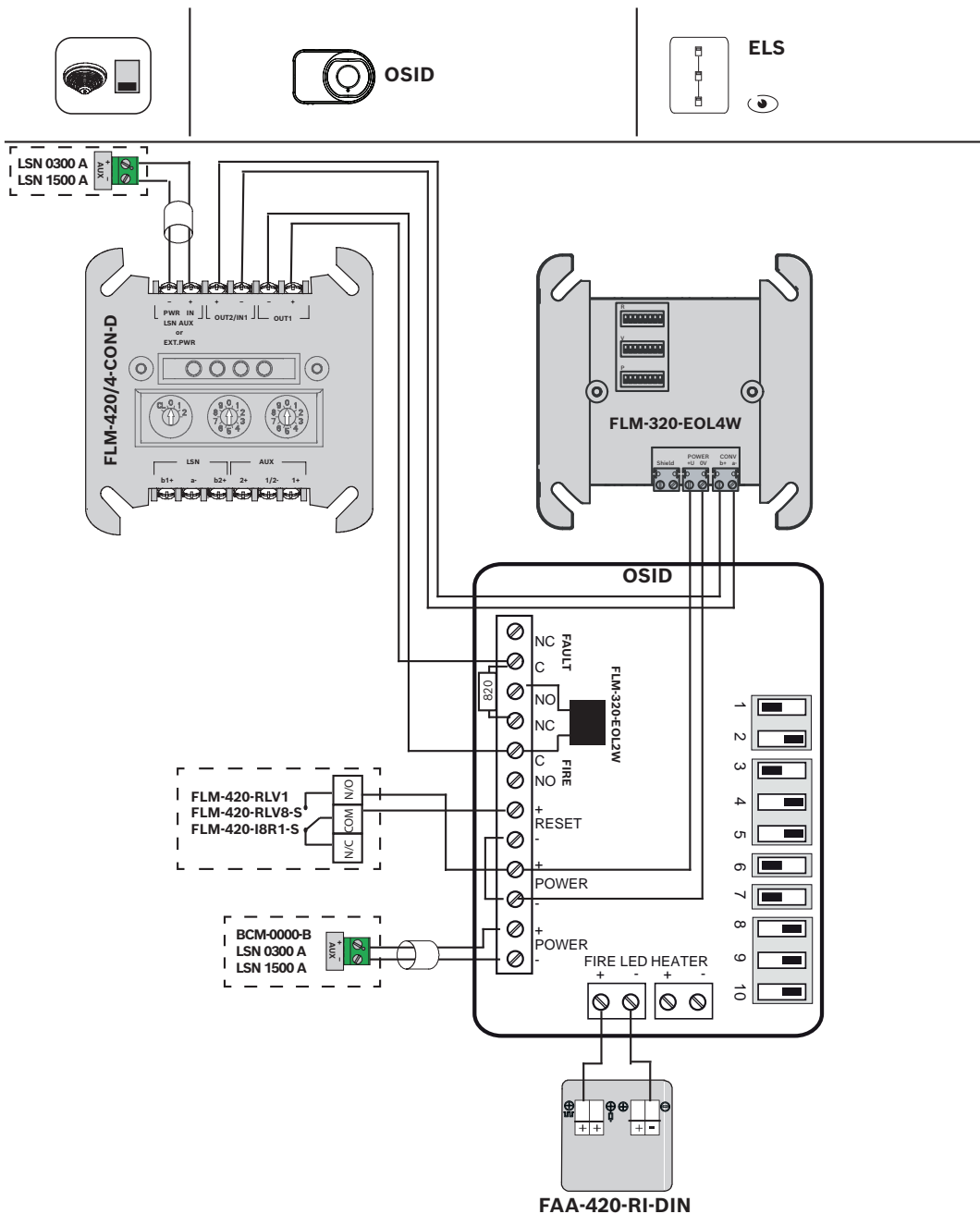


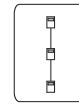
thefirebeam nano
thefirebeam standard
thefirebeam foveo



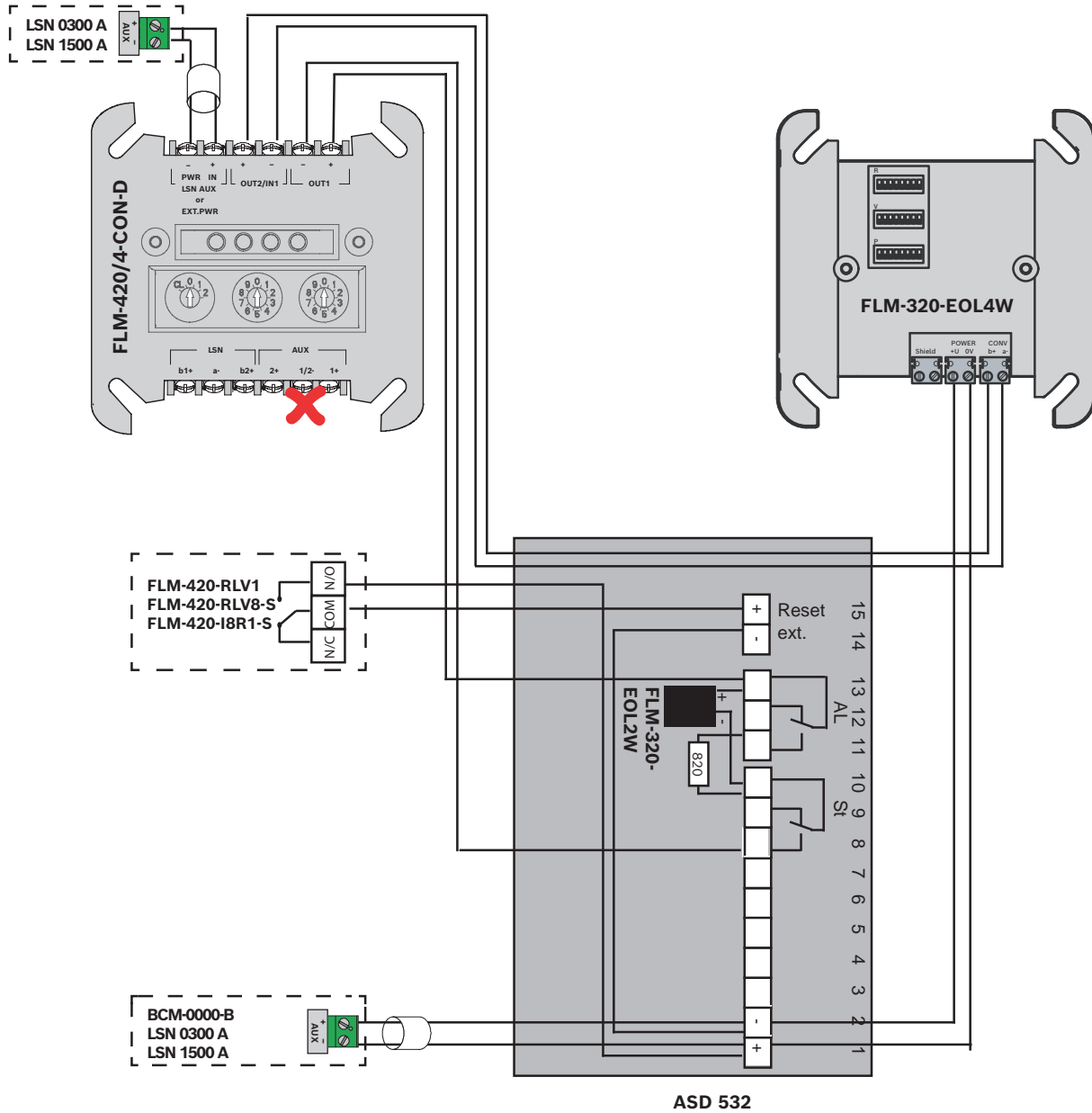
ELS

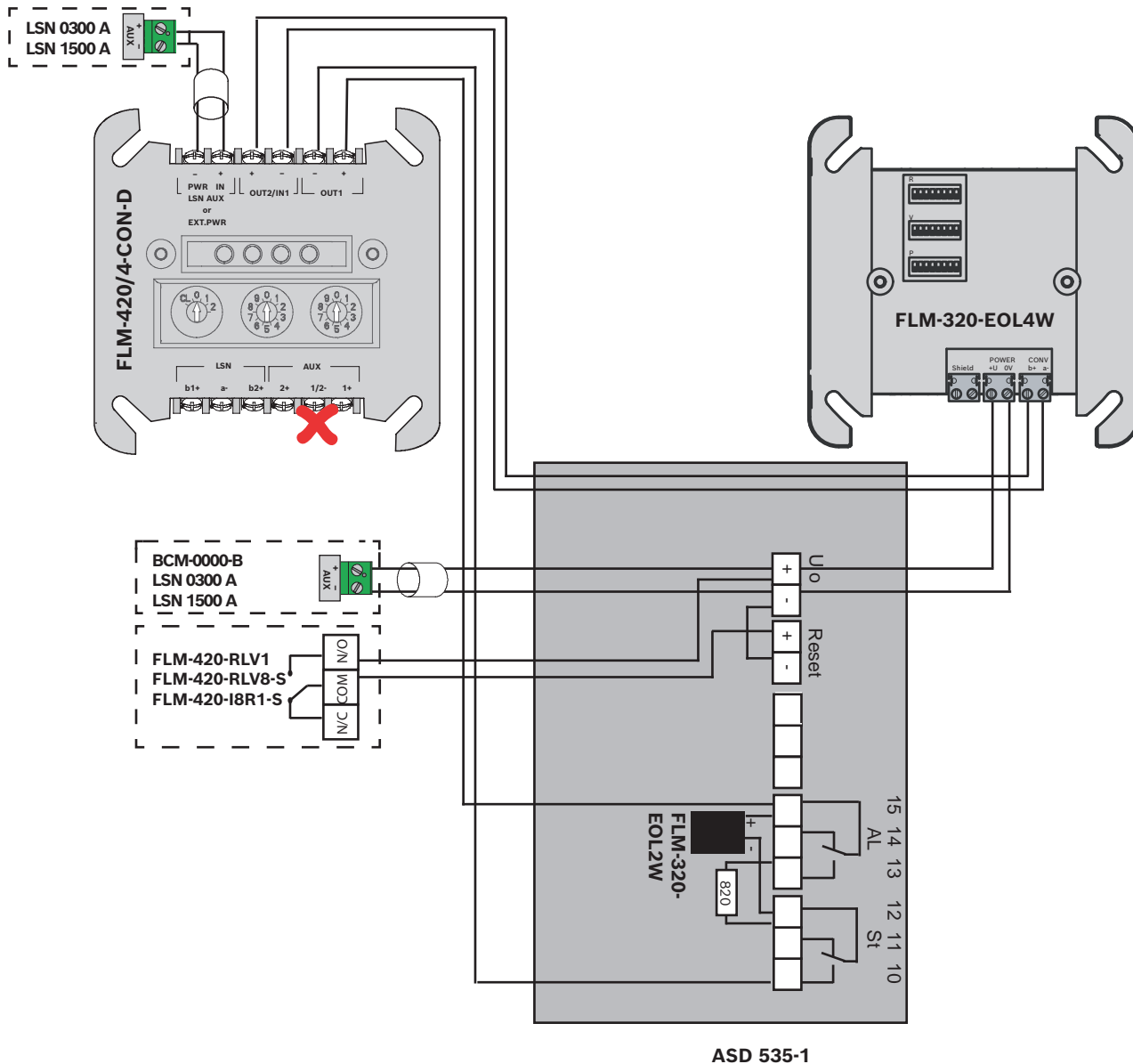
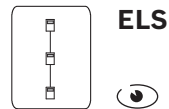


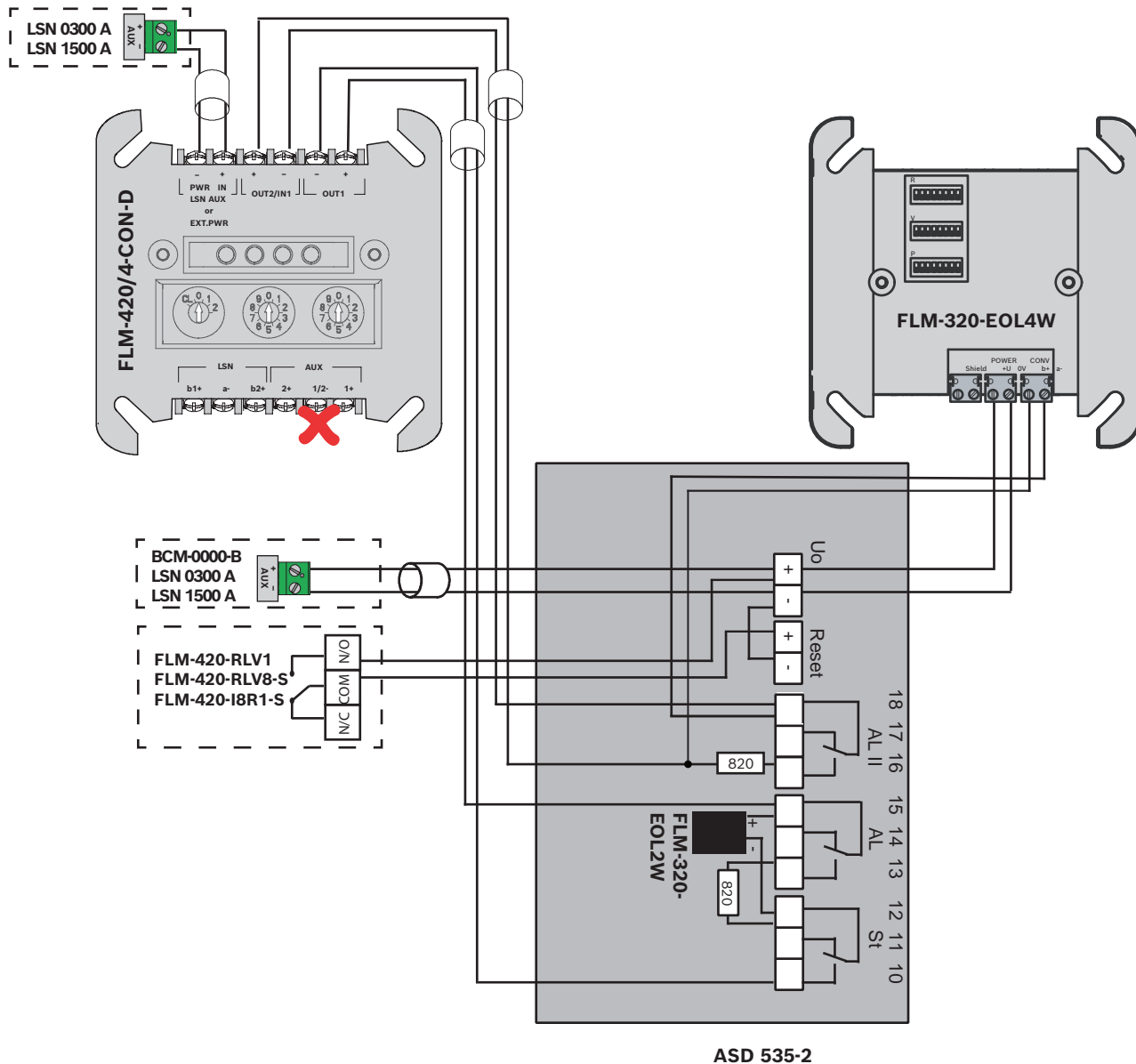
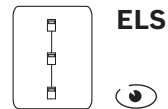




ELS

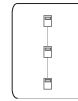






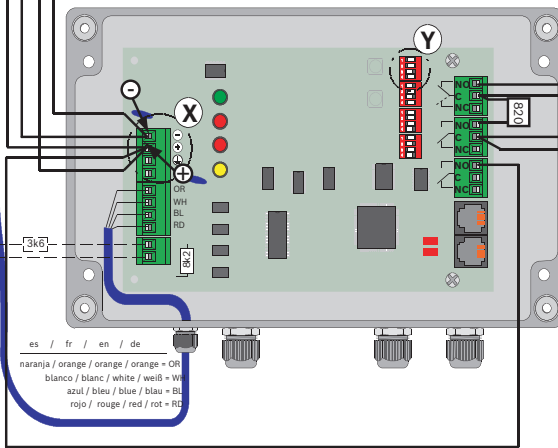
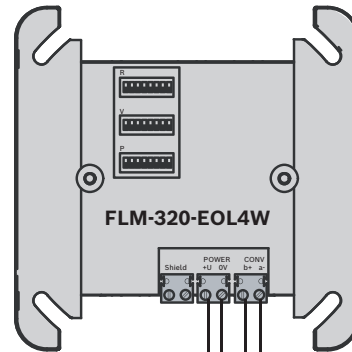
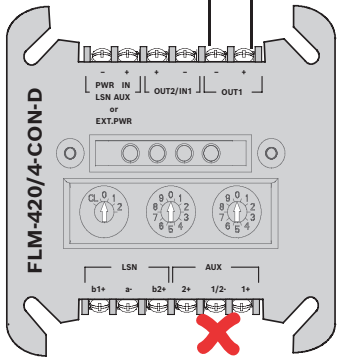


FCS-LWM-1



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

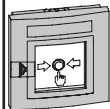
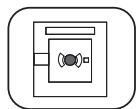


Ext. Reset
Max. 500 m

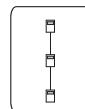
Max. 300m

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

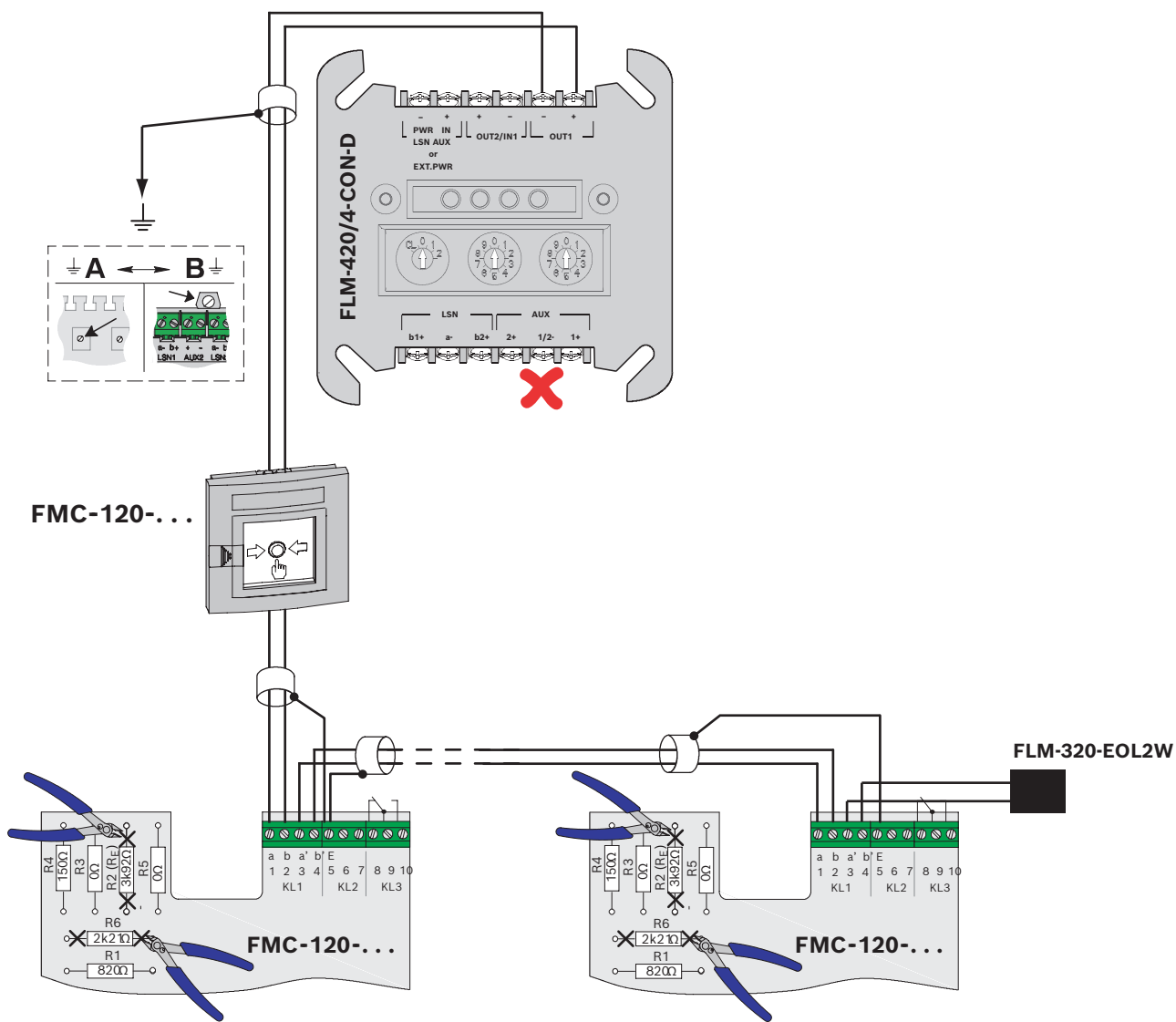


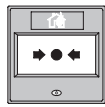


FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B

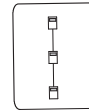


ELS

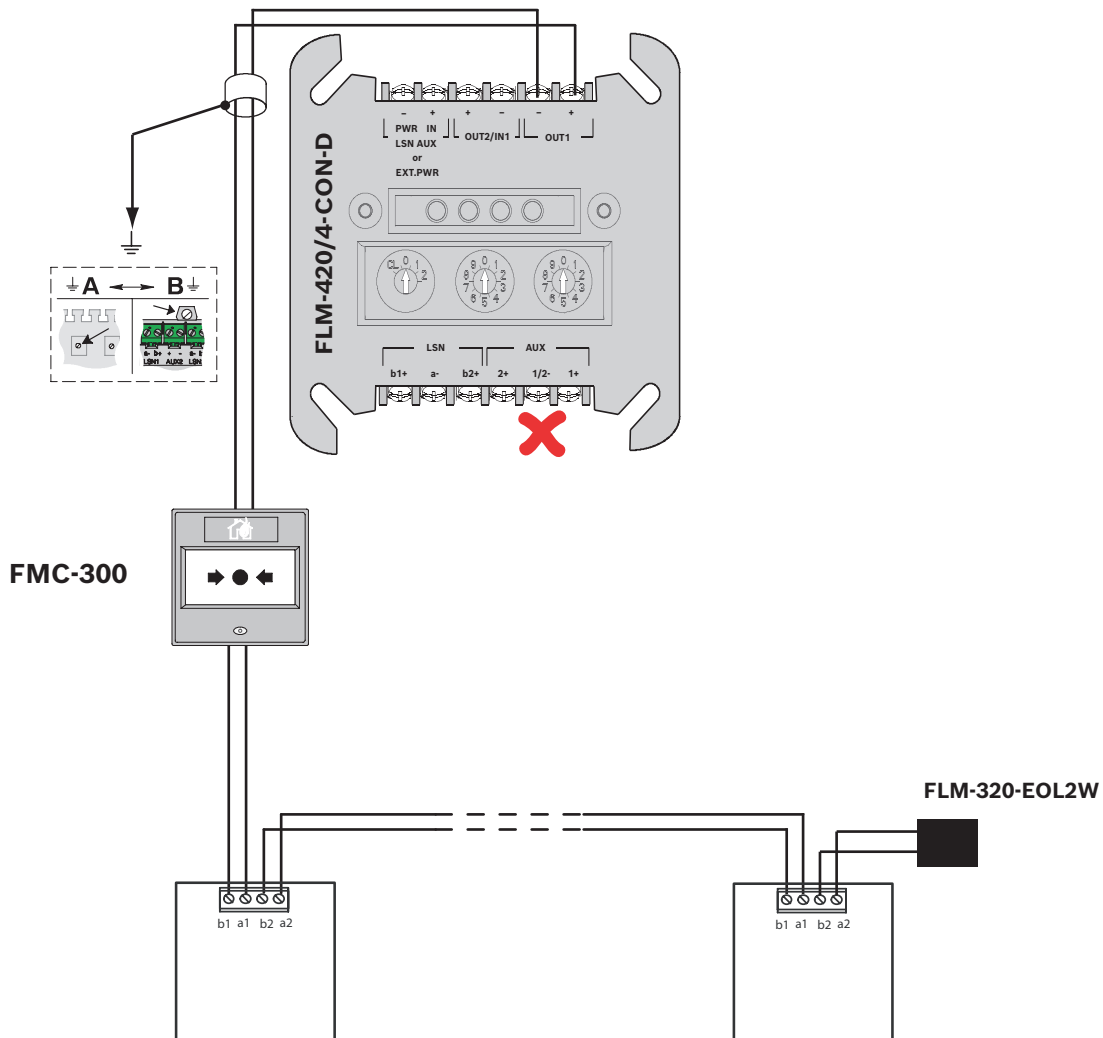


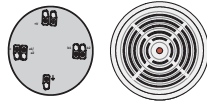


FMC-300



ELS

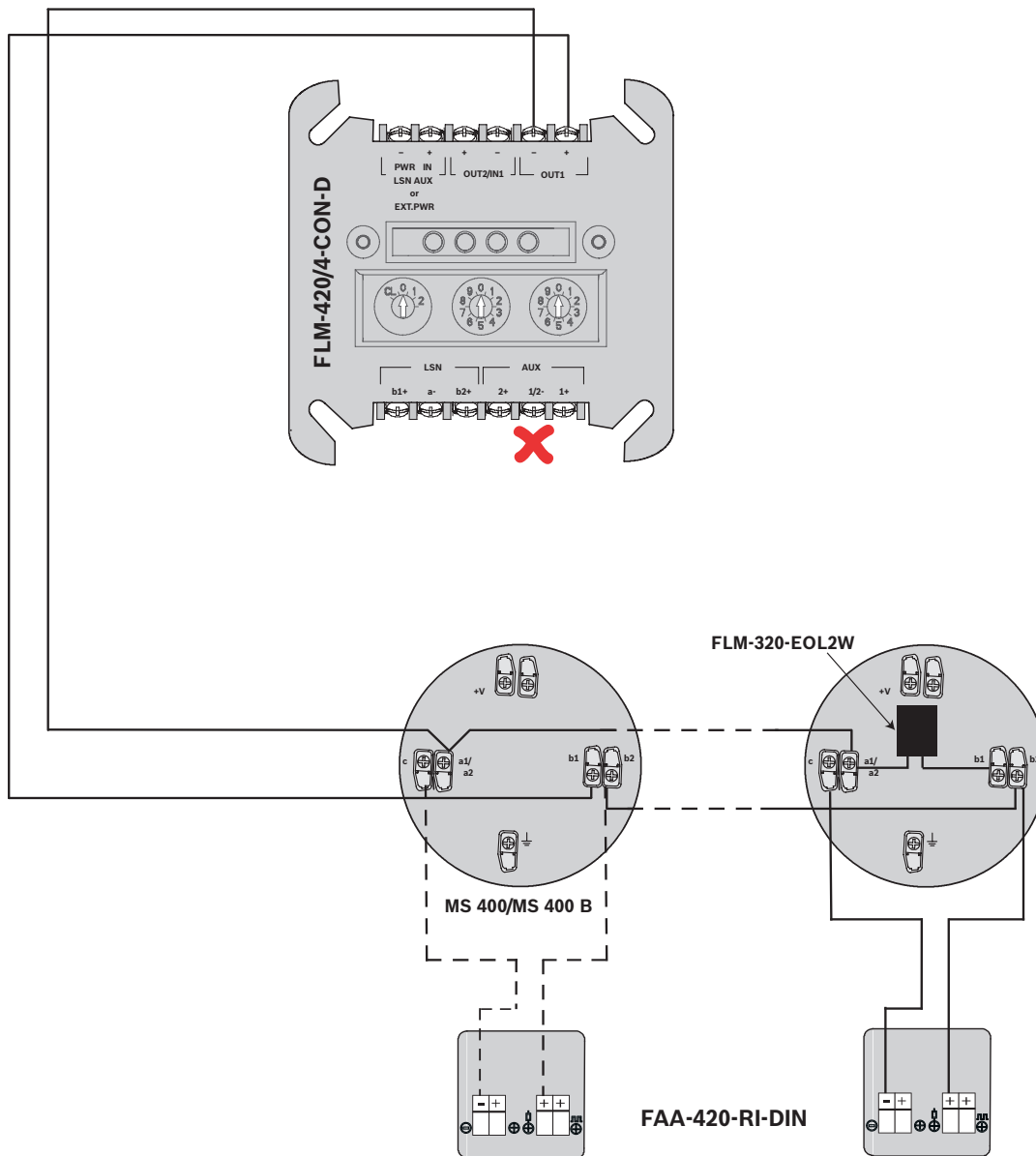




MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



ELS

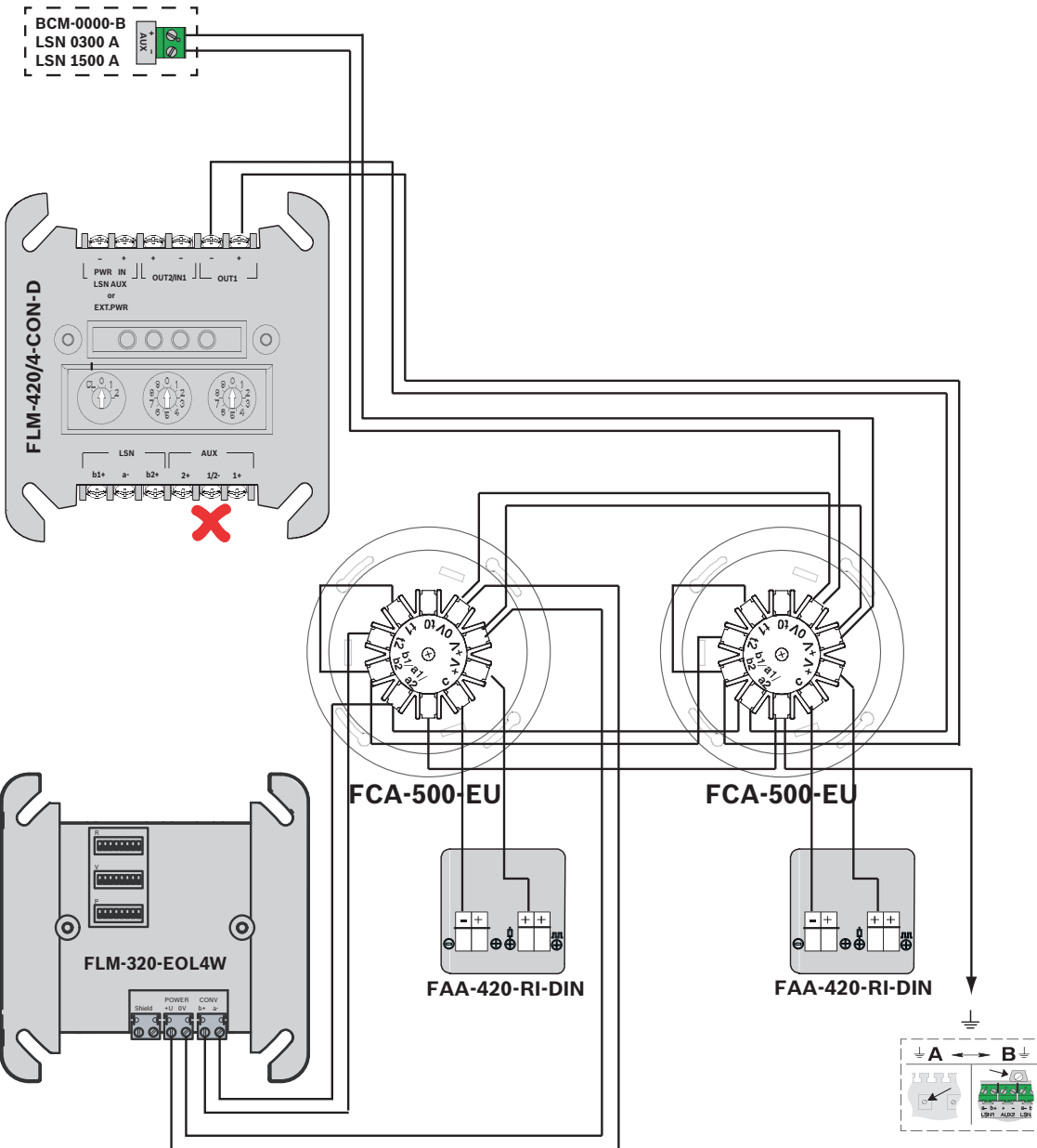


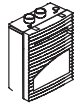


FCP-500

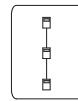


ELS

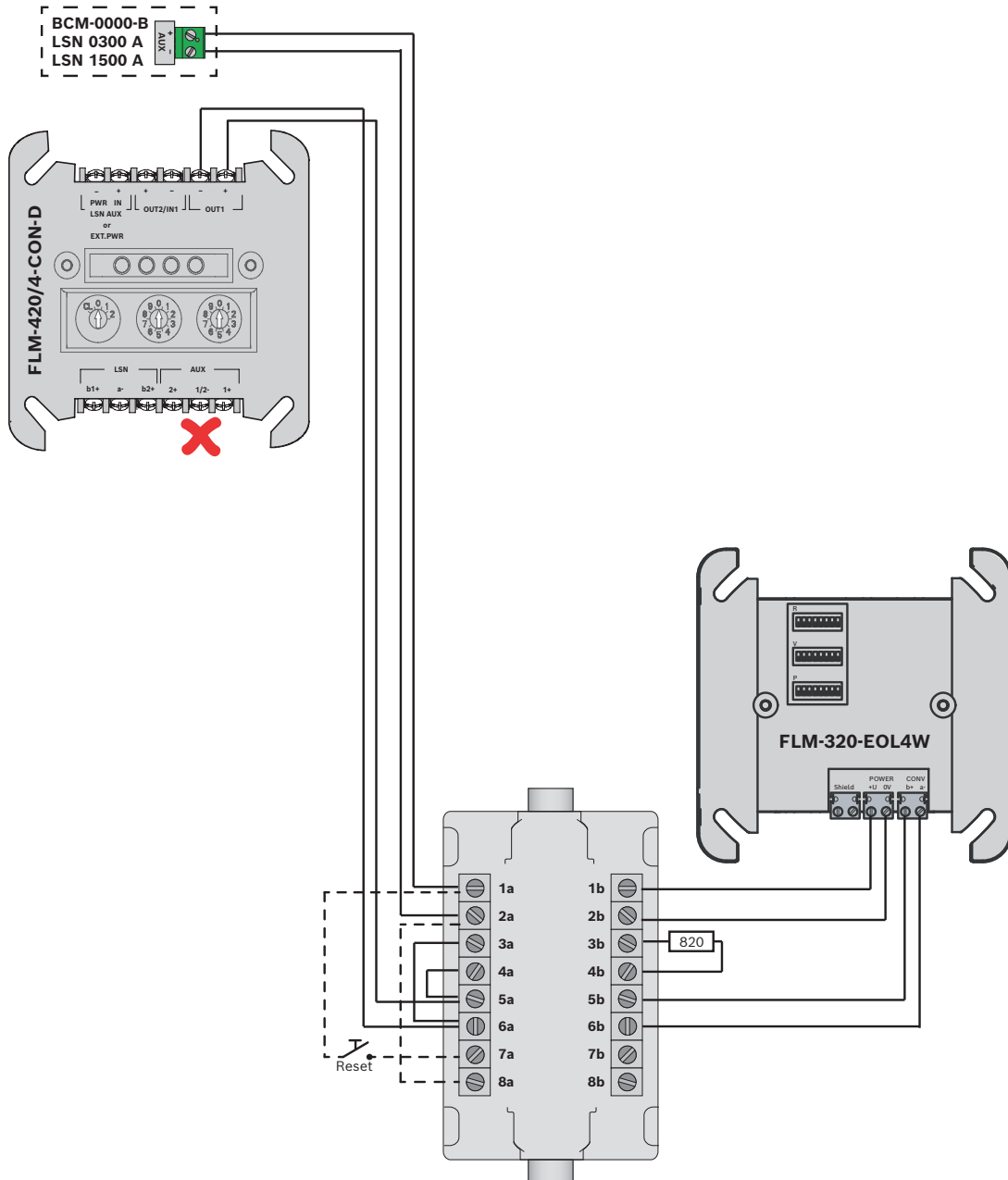


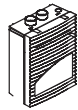


FCS-320-TM Series

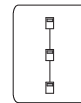


ELS



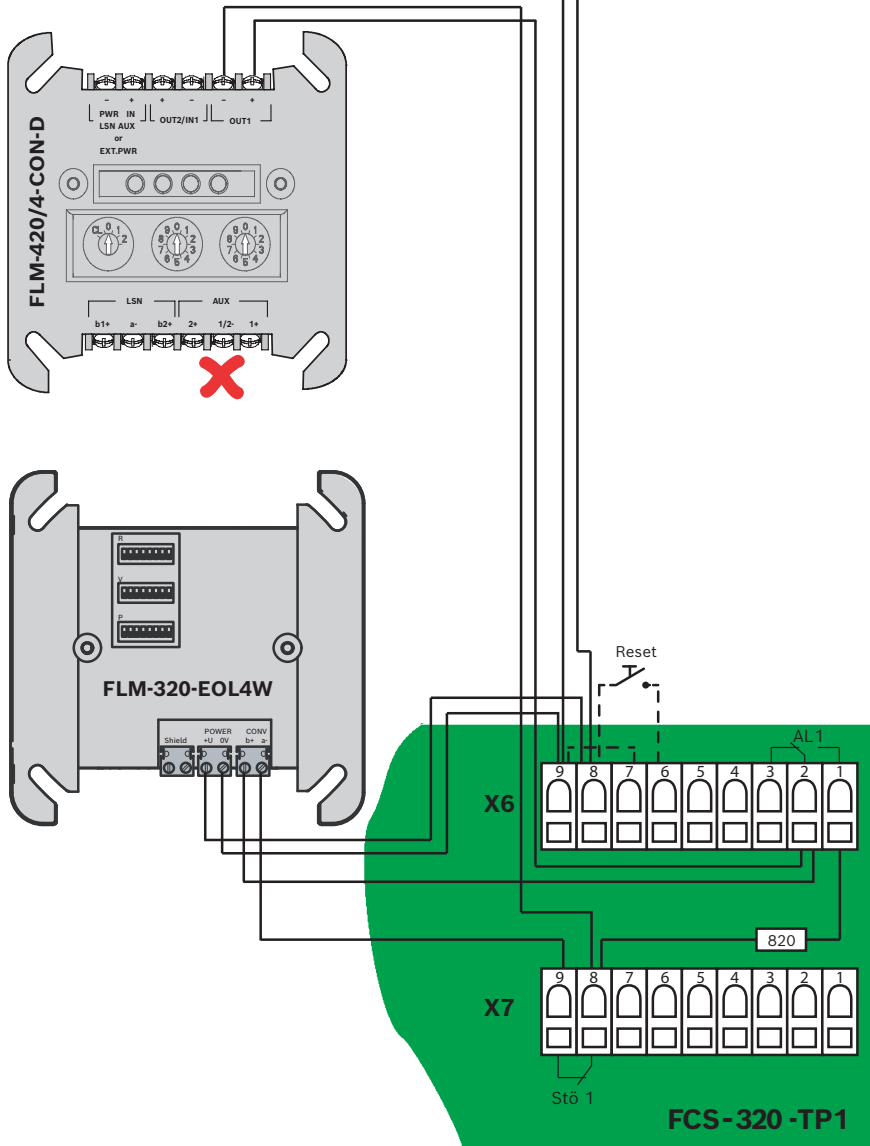


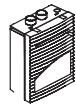
FCS-320-TP Series



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



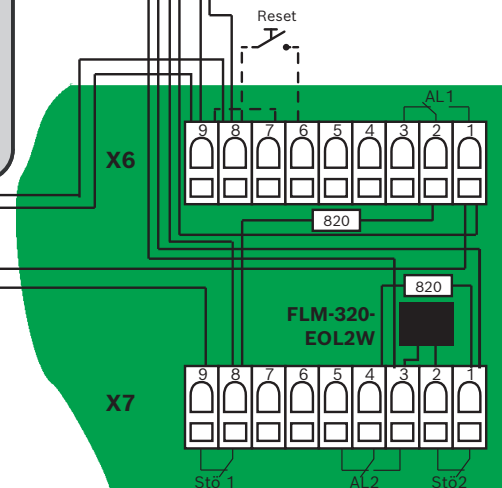
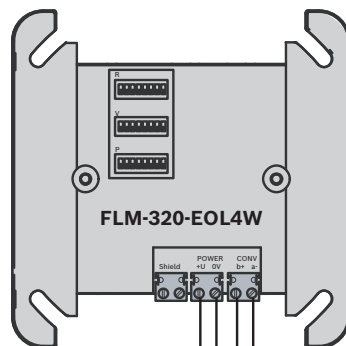
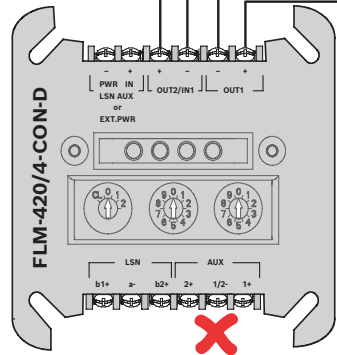


FCS-320-TP Series

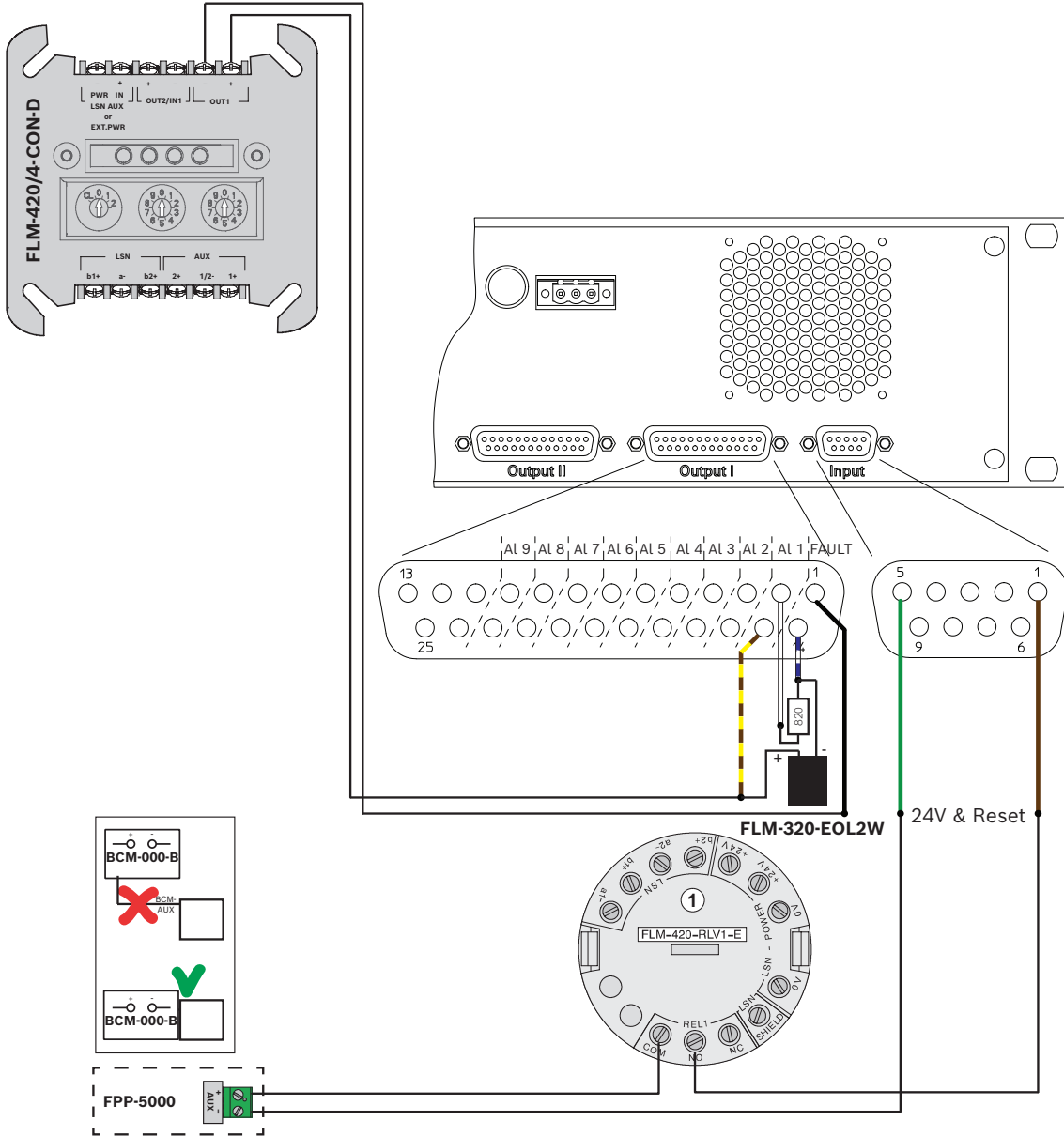
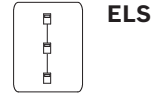


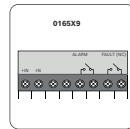
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

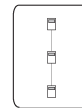


FCS-320-TP2

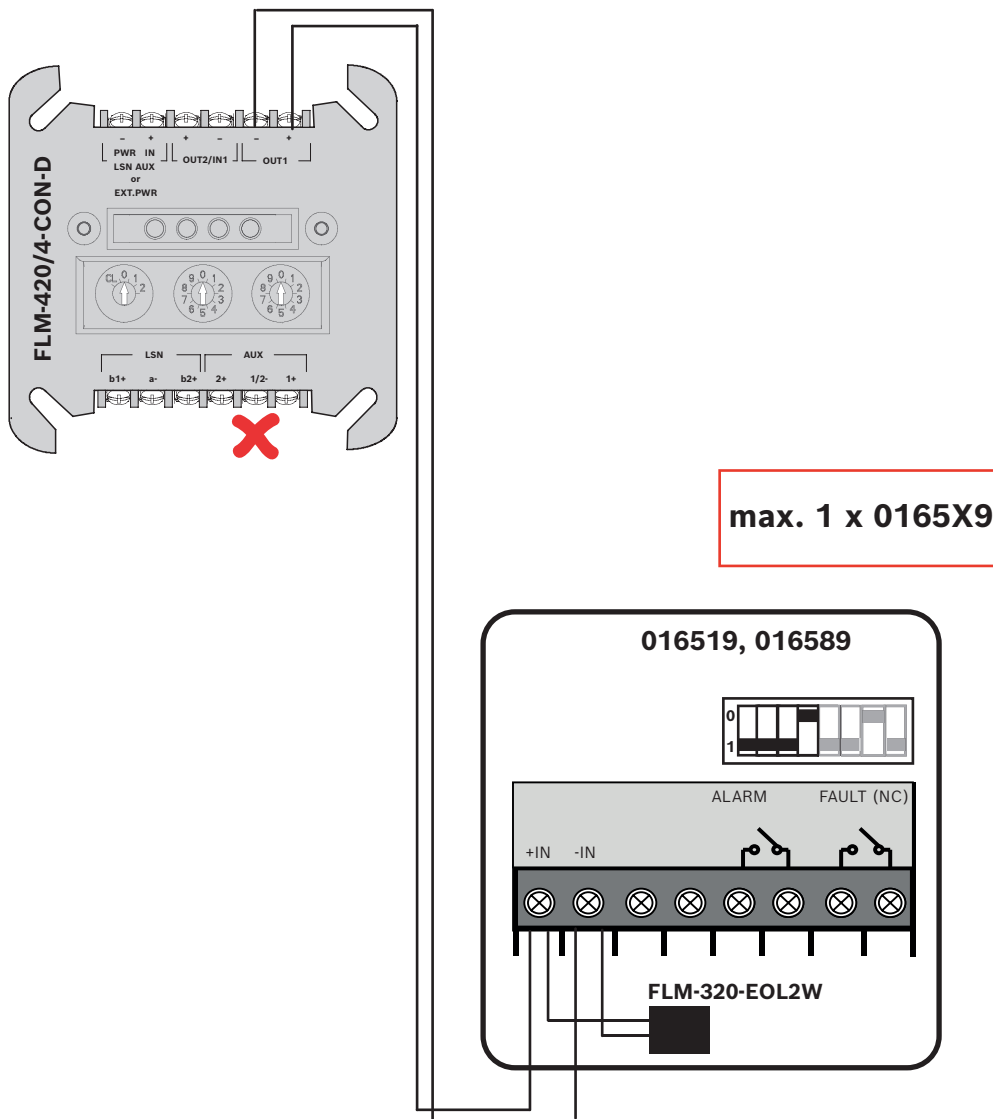


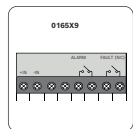


016519, 016589
IR3 Flame Detector

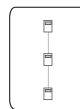


ELS

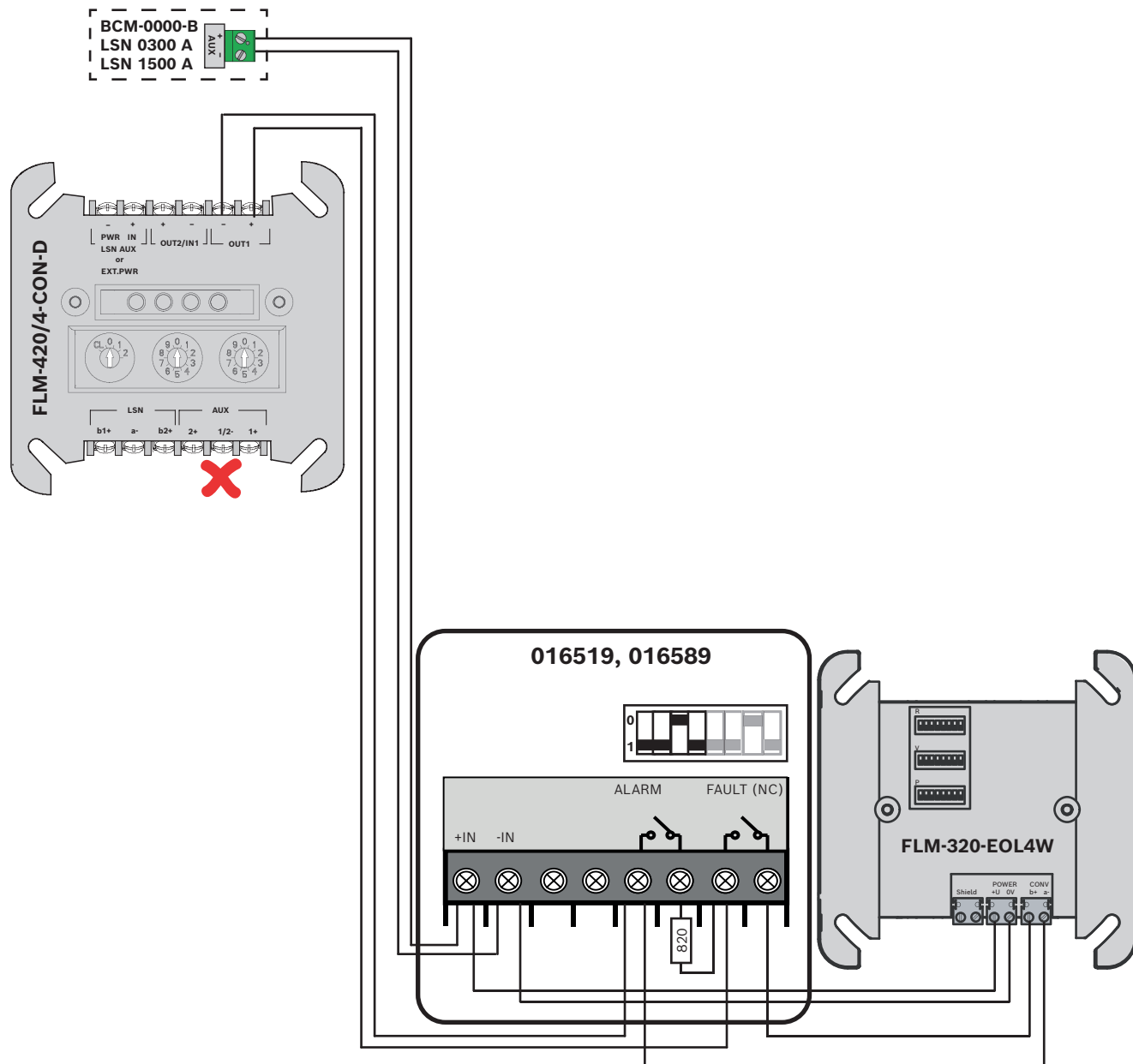




016519, 016589
IR3 Flame Detector

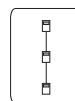


ELS

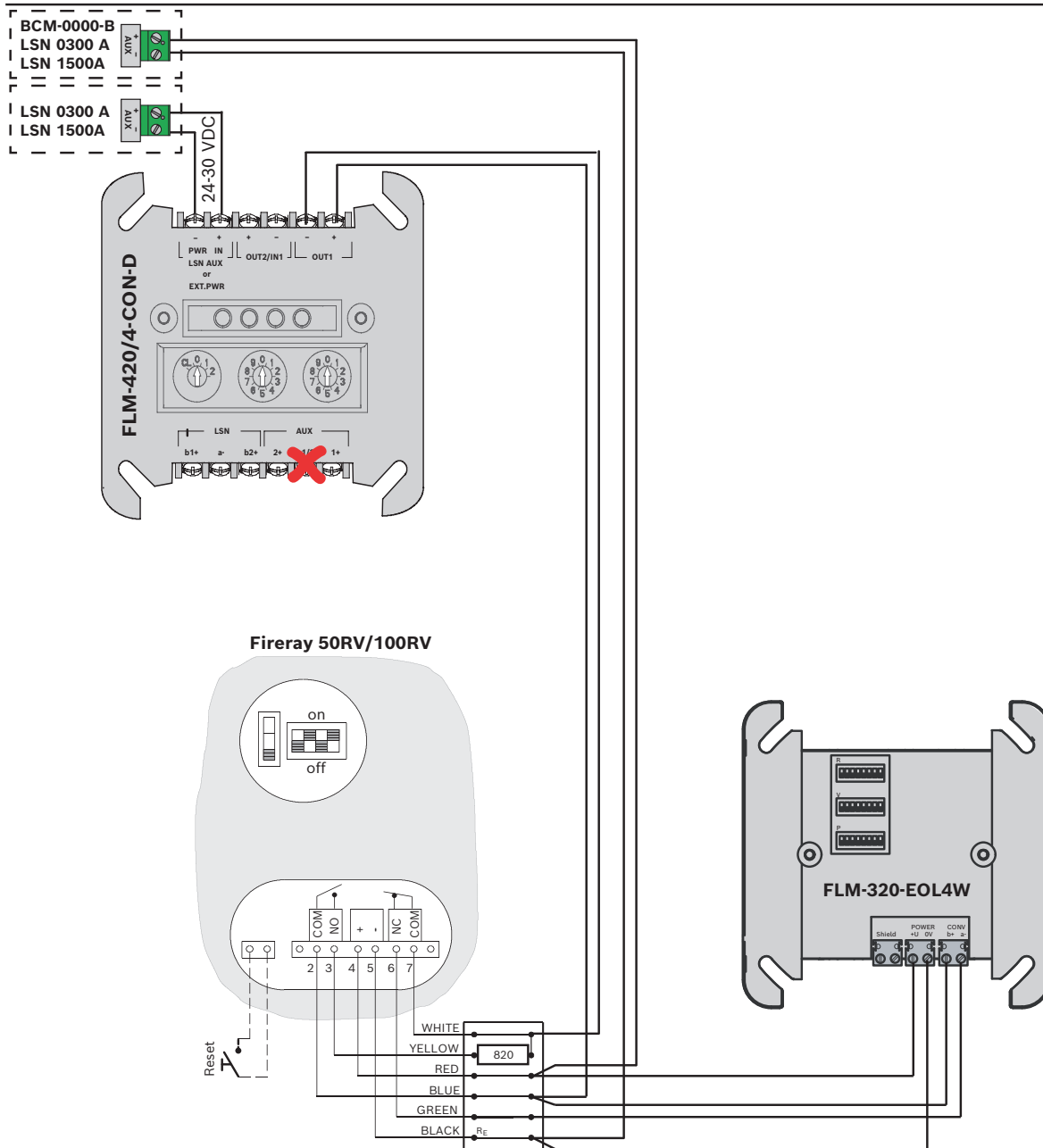


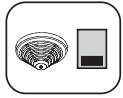


**Fireray 50RV
Fireray 100RV**



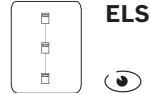
ELS



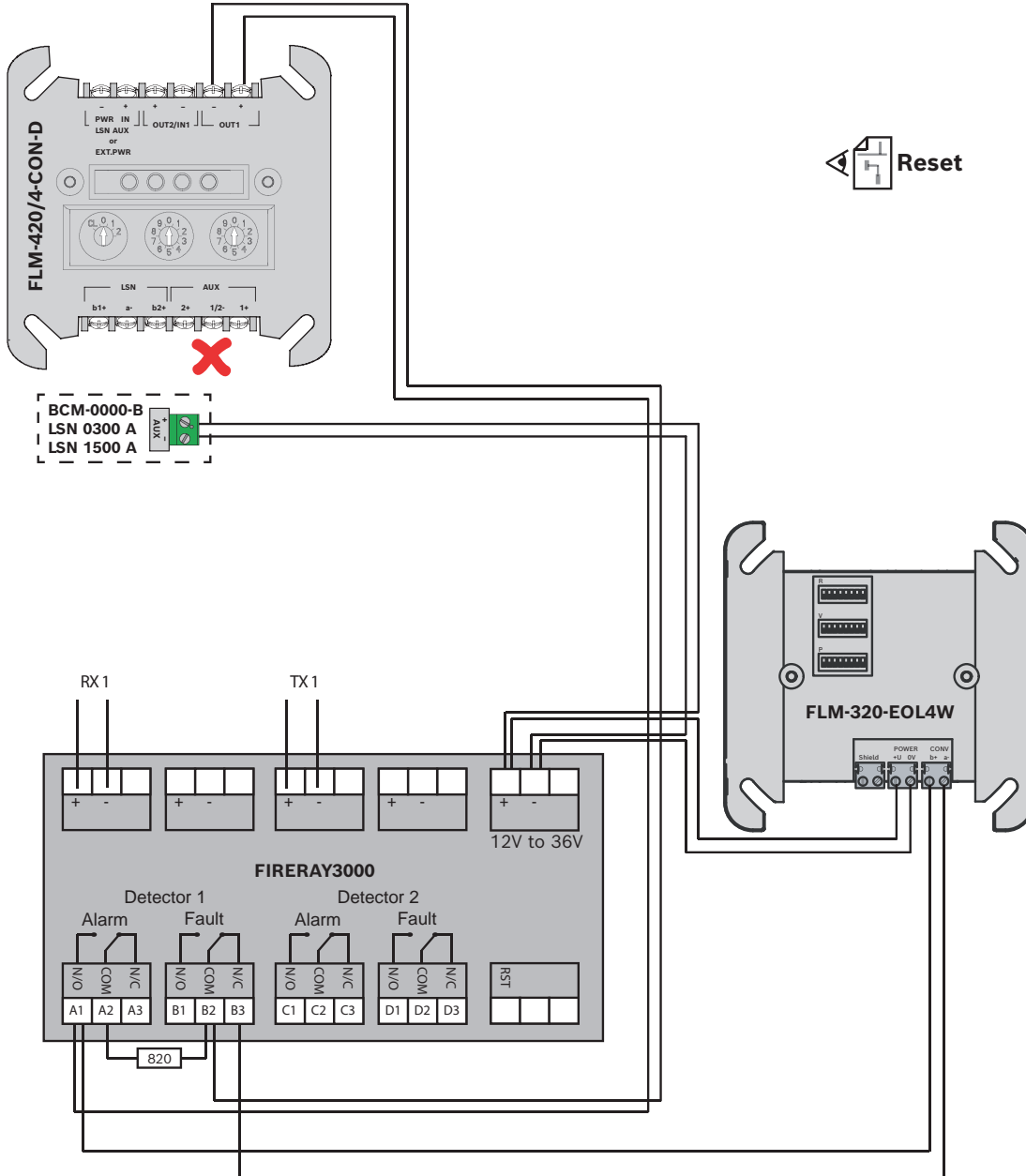


FIRERAY3000

1 x



ELS

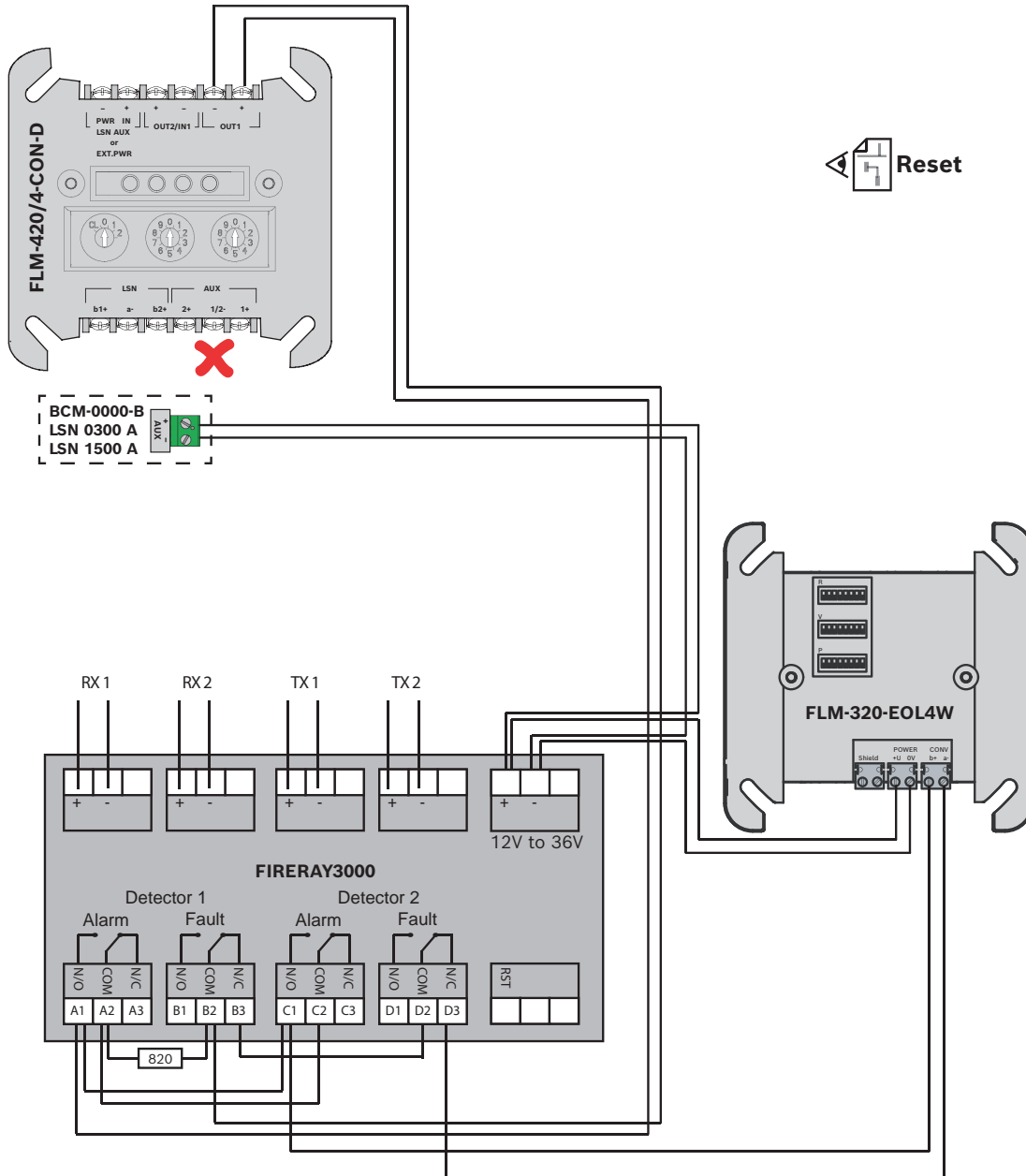




FIRERAY3000
2 x **OUT1**



ELS

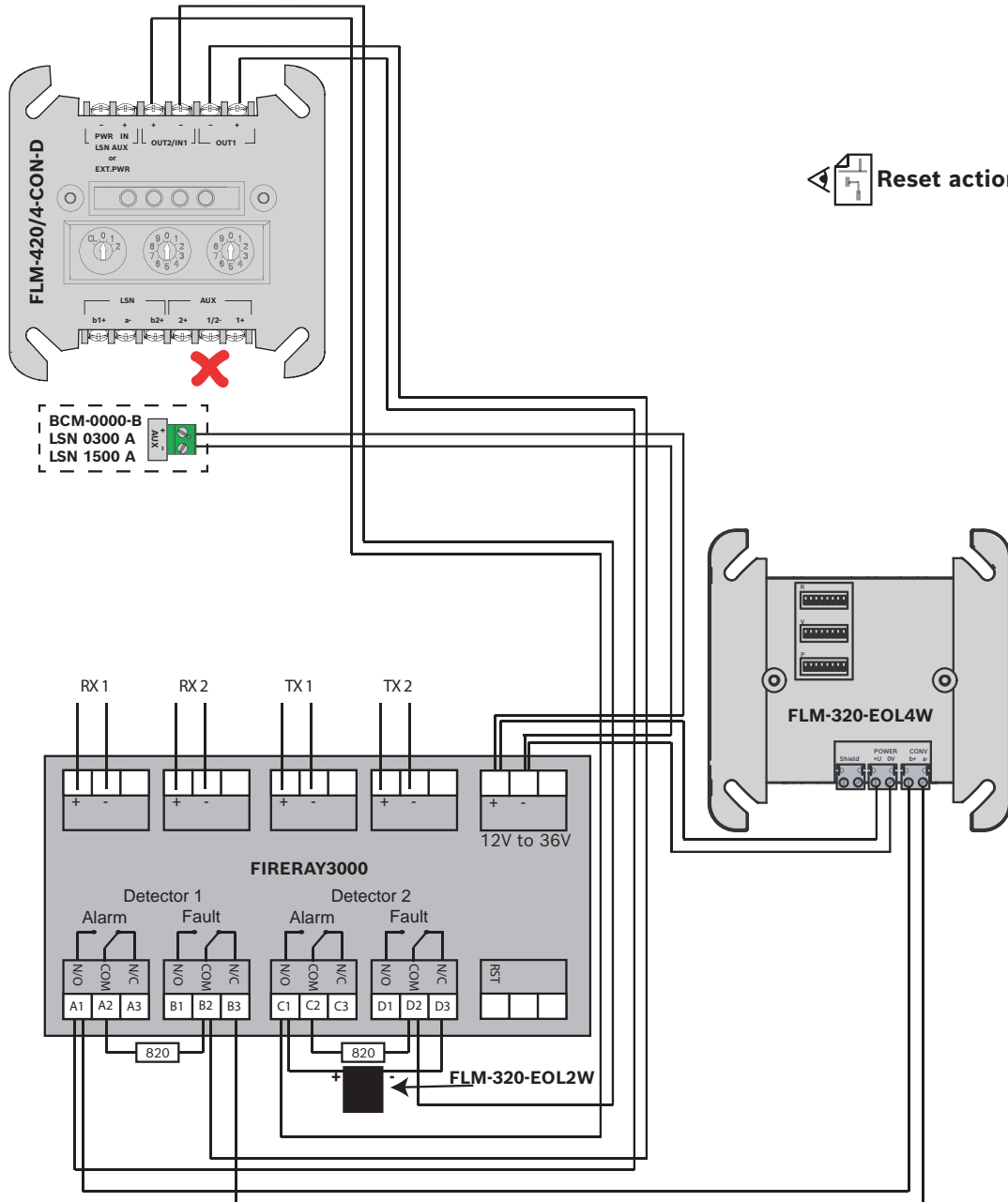




FIRERAY3000
2 x **OUT1+2**



ELS



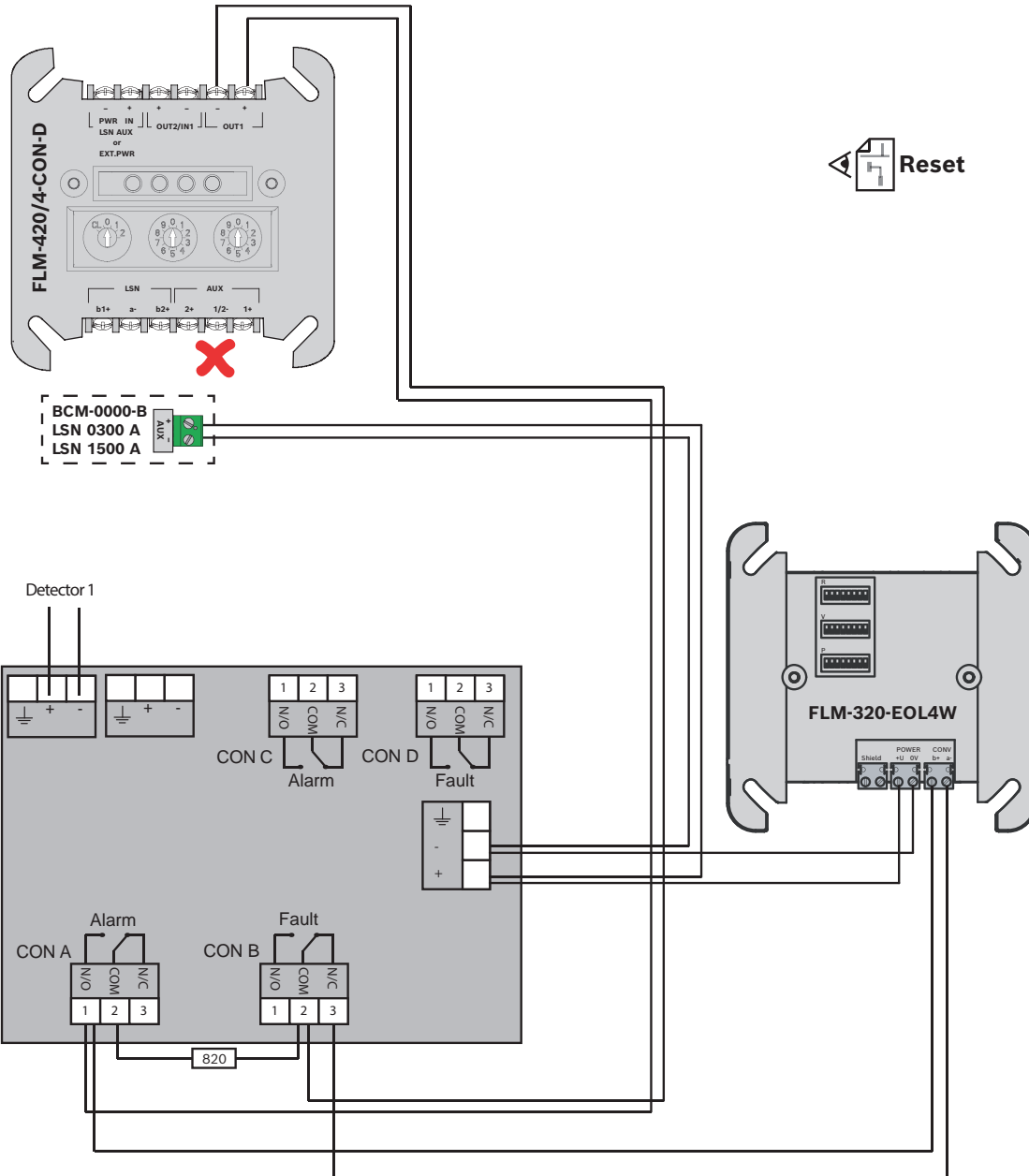


FIRERAY5000

1 x



ELS

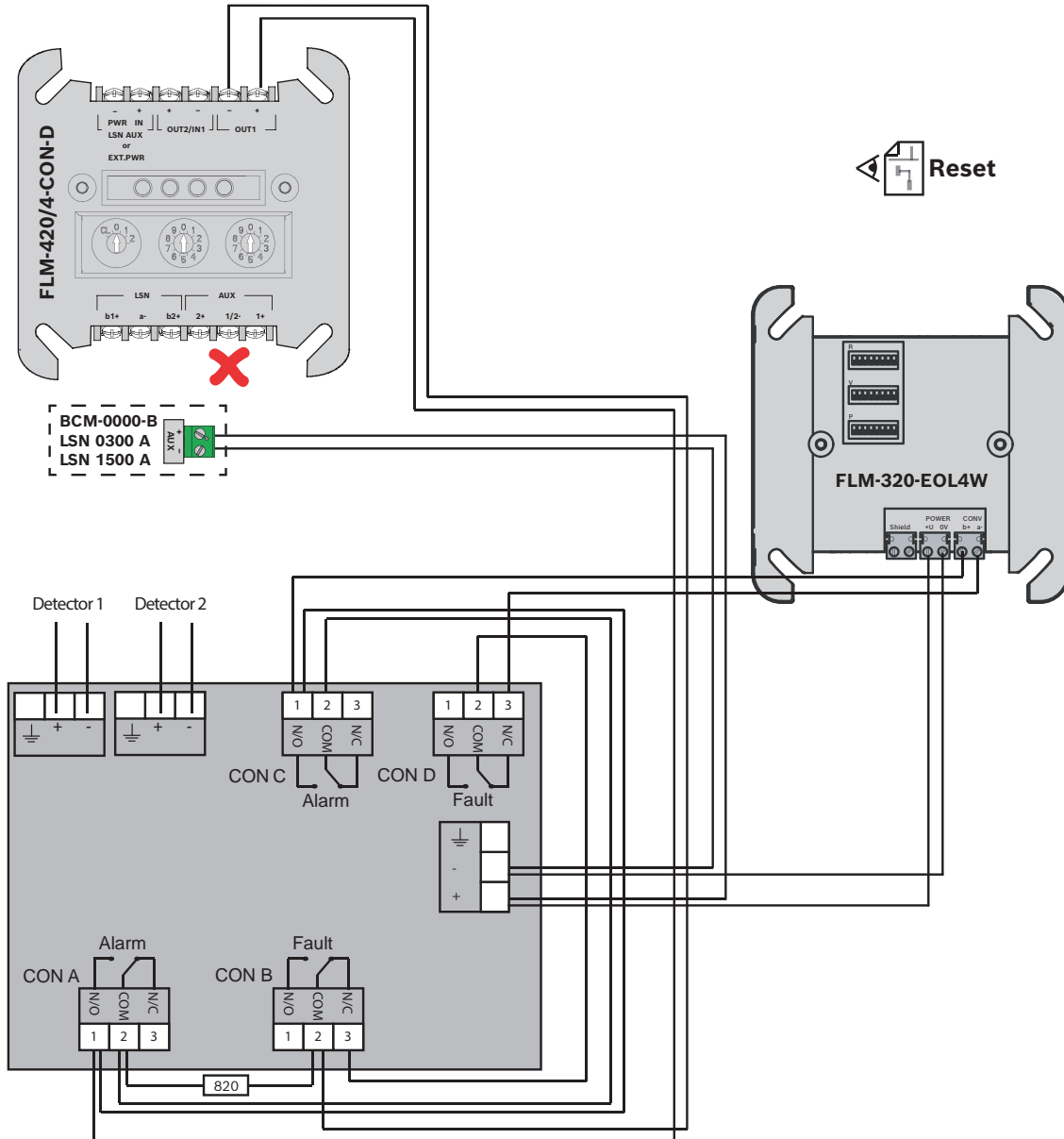




FIRERAY5000
2 x **OUT1**

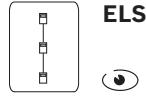


ELS



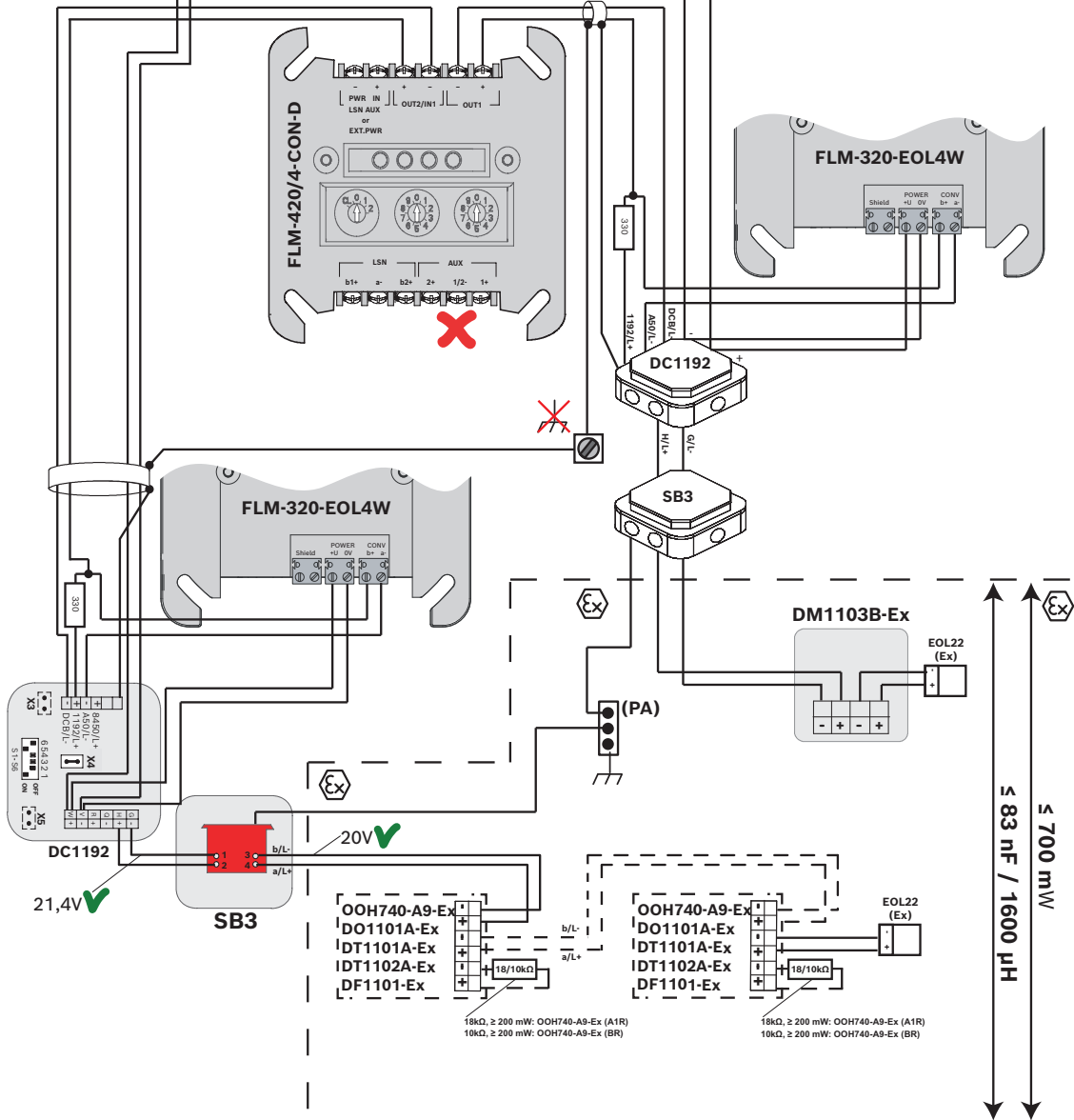


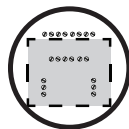
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



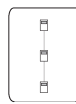
BCM-0000-B
 LSN 0300 A
 LSN 1500 A

BCM-0000-B
 LSN 0300 A
 LSN 1500 A

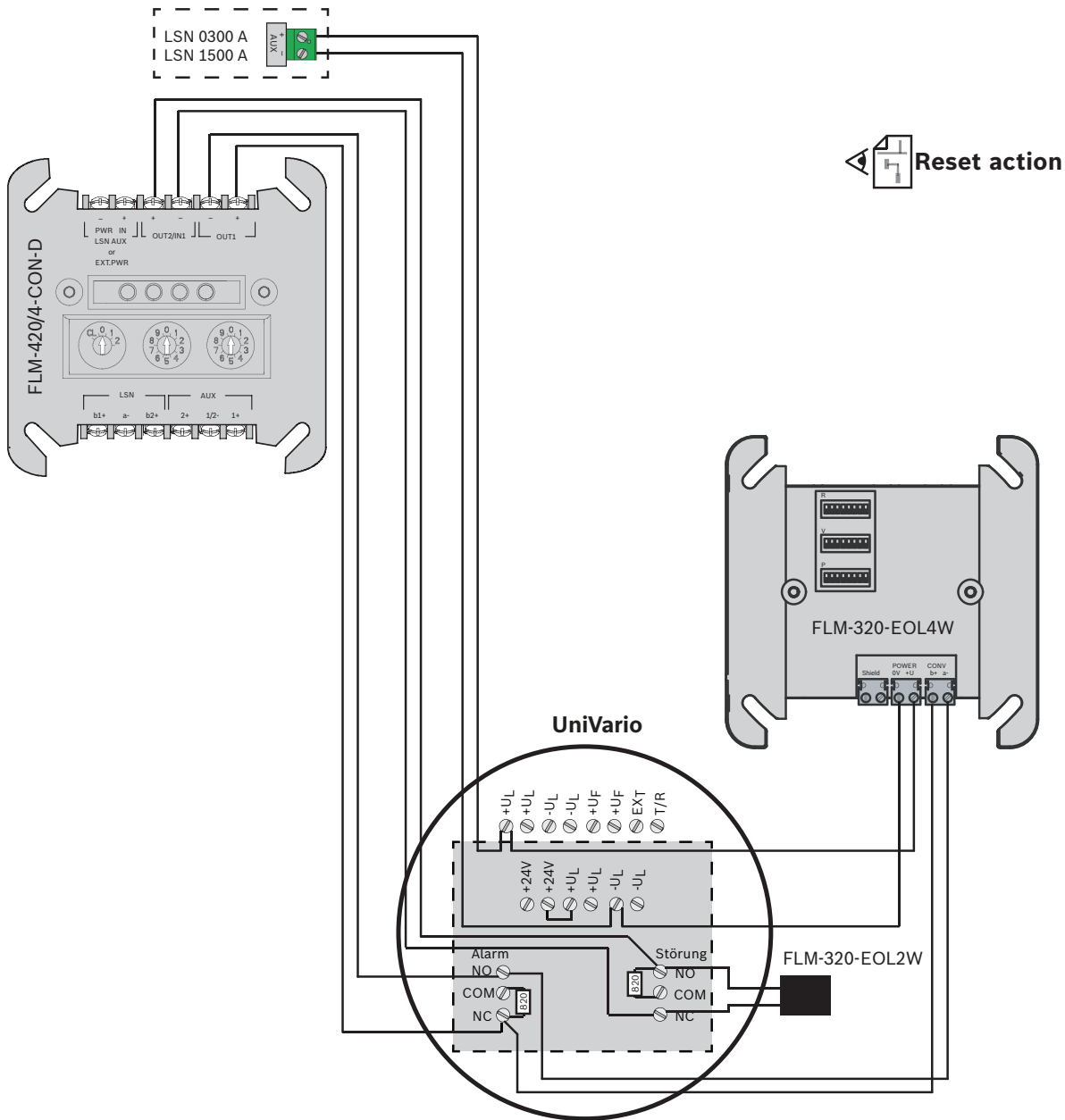




UniVario WMX5000
UniVario FMX5000
UniVario KMX5000



ELS



Указатель

Цифры

016519 ->	
CZM 0004 A	52, 53
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CZM 0004 A	53
FCS-LWM-1	52
FLM-420/4-CON-D	134, 135, 136, 137
FLM-420/4-CON-D (EOL)	263, 264
2014/2 Ex ->	
FLM-420/4-CON-D	155
2014/2 GLU-Ex ->	
FLM-420/4-CON-D	155
837 ->	
FAA-MSR 420	17, 18
FLM-420-RHV	27, 28
838 ->	
FAA-MSR 420	17, 18
FLM-420-RHV	27, 28
858 ->	
FAA-MSR 420	17, 18
FLM-420-RHV	27, 28

A

ADW 535-1 ->	
FLM-420/4-CON-D (EOL)	246
FLM-420-RHV	178, 179
ADW 535-2 ->	
FLM-420/4-CON-D (EOL)	247
FLM-420-RHV	180, 181
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FLM-420/4-CON-D	125
FLM-420/4-CON-D (EOL)	248
ASD 532 ->	
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