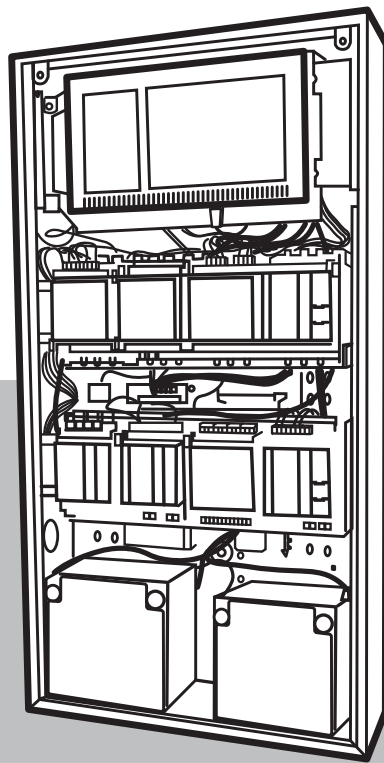


# AVENAR panel series





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# 1 Uwagi

## 1.1 Spis treści

W niniejszej instrukcji okablowania opisano zasadnicze sposoby podłączania urządzeń peryferyjnych do centrali sygnalizacji pożaru. Nie uwzględniono żadnych specyficznych przepisów krajowych ani lokalnych. Konieczność przestrzegania krajowych i lokalnych wymogów może skutkować dodatkowymi połączeniami.

**Uwaga!**

Połączenia przedstawione w tej dokumentacji mogą być także zastosowane w AVENAR panel 2000, jednak pod warunkiem, iż poszczególne komponenty są rozszerzeniami AVENAR panel 2000 zatwierdzonymi przez firmę Bosch Sicherheitssysteme GmbH.

**Uwaga!**

Przedstawione w niniejszym dokumencie sposoby podłączania urządzeń do modułu LSN 0300 A dotyczą również modułu LSN 1500 A.

W Niemczech obowiązuje norma VdS 2540, dlatego w tamtejszych instalacjach zawierających moduł LSN 1500 A linie AUX i LSN muszą być prowadzone osobnymi kablami.

## 1.2 Informacje o produkcie

- Instrukcje instalacji poszczególnych elementów central sygnalizacji pożaru można znaleźć w załączonym podręczniku instalacji.
- Więcej informacji (instrukcje obsługi, instrukcję połączeń sieciowych, podręcznik obsługi systemu) można znaleźć w witrynie: [www.boschsecurity.com](http://www.boschsecurity.com)

## 1.3 Ważne

- Korzystać wyłącznie z materiałów instalacyjnych zalecanych przez firmę Bosch Security Systems.
- Konwersję i prace lutownicze wykonywać wyłącznie po założeniu opaski antyelektrostatycznej na nadgarstek.
- Prace instalacyjne i montażowe powierzać wyłącznie personelowi, który posiada stosowne przeszkolenie.
- Przestrzegać wymagań dotyczących połączeń ustanowionych przez lokalne władze/instytucje.



### Niebezpieczeństwo!

Pamiętać, że dotykanie elementów pod napięciem może grozić śmiercią.  
Przed instalacją odłączyć zasilanie urządzenia.

### Żyła ekranująca przewodu

Żyła ekranująca przewodu jest niezbędna we wszystkich dwużyłowych połączeniach z urządzeniem CZM 0004 A oraz do podłączania następujących produktów:

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

Na przykładzie schematu okablowania poniżej pokazano sposób poprowadzenia żyły ekranującej przewodu.

### Uwaga!

Jeśli konieczne jest podłączenie żyły ekranującej przewodu LSN, należy postępować zgodnie z parametrami technicznymi sieci LSN.

- Podłączyć ekran przewodu LSN do wyznaczonego złącza uziemienia po stronie centrali: dwa połączenia na początku i końcu pętli jedno połączenie na początku linii otwartej
- Podłączyć ekran przewodu przelotowo do wszystkich urządzeń peryferyjnych LSN, korzystając z dostarczonych terminali.
- Nie wolno wykonać żadnego innego połączenia ekranu przewodu LSN, ani ze złączem uziemienia w jakimkolwiek miejscu, ani z innym źródłem napięcia elektrycznego.



## 1.4 Notatki użytkownika

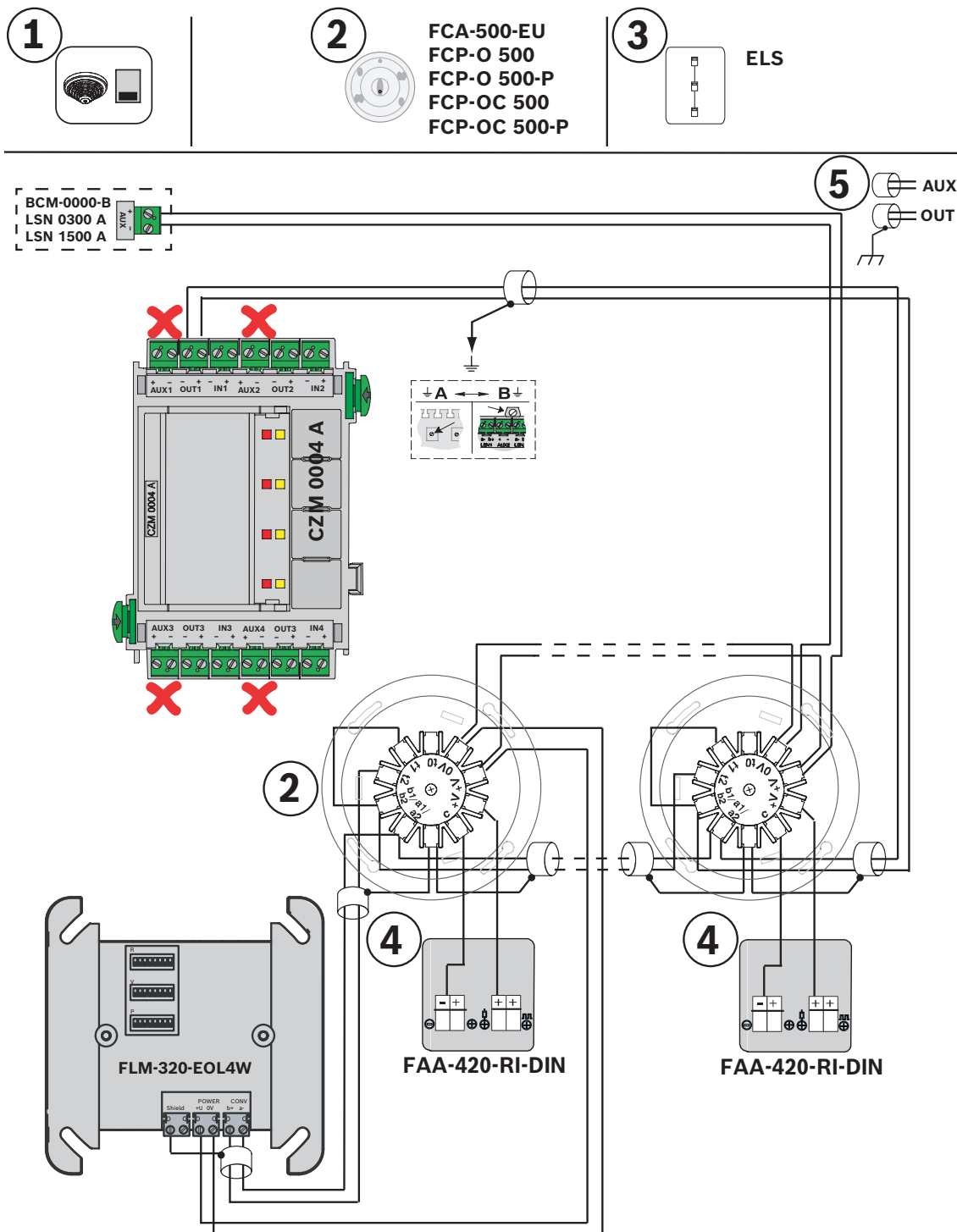
Instrukcja okablowania ma następujący układ:

- Rozdział Okablowanie uporządkowano według urządzeń, do których podłącza się urządzenia peryferyjne. Schemat okablowania przedstawia bezpośrednie połączenie między jednym urządzeniem a drugim (brak połączeń kaskadowych).
- Przegląd okablowania uzupełnionego dodatkowymi modułami EOL do monitorowania narastającej przerwy znajdują się w sekcji EOL.

W znalezieniu odpowiedniego schematu mogą również pomóc:


- spisy treści na początku rozdziału Okablowanie i na początku sekcji Moduły funkcjonalne, Moduły interfejsu i EOL;

- Index (neutralny językowo)
  - oraz funkcja przeszukiwania całego tekstu.
- Patrz przykładowe okablowanie poniżej:







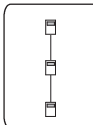
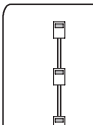
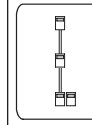
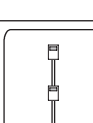
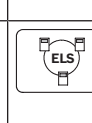





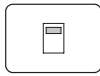
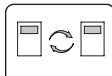

1	Oznaczenia rozdziałów ( <i>Oznaczenia rozdziałów, Strona 7</i> )
2	Podłączane urządzenie peryferyjne
3	Oznaczenia połączeń ( <i>Oznaczenia połączeń, Strona 7</i> )
4	Elementy opcjonalne

5 Zasilanie i okablowanie (*Zasilanie i okablowanie, Strona 8*)**1.4.1 Oznaczenia rozdziałów**



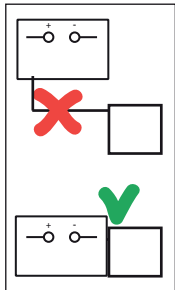
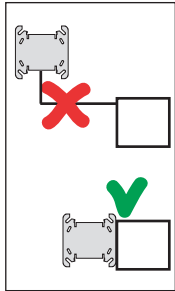

	Czujki automatyczne		Panele sterowania i wyświetlacze		Drukarka
	Zasilacz		Moduły funkcyjne		Wyposażenie przeciwpożarowe
	Moduły interfejsu		Systemy gaśnicze		Ręczne ostrzegacze pożarowe
	Urządzenia sygnalizacyjne		Sterowanie drzwiami		Urządzenia transmisyjne

**1.4.2 Oznaczenia połączeń**

	Okablowanie wymagane		Okablowanie opcjonalne		Niedozwolone
	Redundancja		Okablowanie pętli		Okablowanie pętli z elementem nadmiarowym
	Okablowanie odgałęzienia		Nadmiarowe okablowanie odgałęzienia		Okablowanie odgałęzienia z elementem nadmiarowym
	Nadmiarowe okablowanie odgałęzienia z elementem nadmiarowym	ELS	To okablowanie jest zgodne z VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS to skrót od Extended Line Supervision (nadzór rozszerzony linii), co oznacza monitoring zwarc i przerw. To okablowanie zapewnia ELS. Zwarcia narastające są wykrywane przez następujące moduły: LSN 0300 A, LSN 1500 A i BCM-0000-B, jeśli jest używane urządzenie FPP-5000-TI13.		To okablowanie pętli jest zgodne z VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. Zapewnia ono ELS. Dodatkowe moduły EOL nie są wymagane.
	Synchronizacja		Obszary zagrożone wybuchem		Centrala

	Samodzielna centrala		Samodzielna centrala z elementem nadmiarowym		Dotyczy podstaw czujek: okablowanie jest prawidłowe wyłącznie w przypadku podstawy czujki, w której zainstalowano czujkę.
EN 54-2, DIBT itd.	Jeżeli wymagana jest zgodność z tą normą, należy użyć określonego okablowania.				

### 1.4.3 Zasilanie i okablowanie

	Wymagany jest przewód 2-żyłowy.
	Wymagany jest ekranowany przewód 2-żyłowy.
	Obudowa produktu mieszcząca zasilacz musi być zamontowana równo z elementem.
	Moduł interfejsu musi być zamontowany na płasko.
 <b>Reset action</b>	Sprawdź schemat okablowania w niniejszej instrukcji. Aby urządzenie automatycznie się resetowało, trzeba zaimplementować operację resetowania.

### 1.5 Wartości rezystancji

Niniejsza tabela zawiera informacje na temat oznaczeń barwnych rezystorów. Dostarczone wraz z produktem rezystory metalizowane posiadają 5 pasm koloru, których oznaczenia barwne wskazują wartość rezystancji.

Kolor	1. pasmo	2. pasmo	3. pasmo	4. pasmo (multiplikator)	5. pasmo (tolerancja)
Srebrny				$10^{-2}$	$\pm 10\%$
Złoty				$10^{-1}$	$\pm 5\%$
Czarny		0	0	$10^0$	



Kolor	1. pasmo	2. pasmo	3. pasmo	4. pasmo (multiplikator)	5. pasmo (tolerancja)
Brązowy	1	1	1	10 <sup>1</sup>	±1%
Czerwona	2	2	2	10 <sup>2</sup>	±2%
Pomarańczowy	3	3	3	10 <sup>3</sup>	±0.05%
Żółty	4	4	4	10 <sup>4</sup>	±0.02%
Zielony	5	5	5	10 <sup>5</sup>	±0.5%
Niebieski	6	6	6	10 <sup>6</sup>	±0.25%
Fioletowy	7	7	7	10 <sup>7</sup>	±0.1%
Szary	8	8	8	10 <sup>8</sup>	±0.01%
Biały	9	9	9	10 <sup>9</sup>	

Zgodnie z normą DIN EN 60062:2017

*Pomarańczowy — biały — czarny — brązowy — brązowy: rezystor 3,9 kΩ z tolerancją 1%,  
Czerwony — czerwony — czarny — brązowy — brązowy: rezystor 2,2 kΩ z tolerancją 1%.*

## 2 Wiring



*FPP-5000 Power supply, Strona 11*

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

*DIBT, Strona 15*

*Functional Modules, Strona 42*

*BCM-000-B, Strona 43*

*CZM 0004 A, Strona 45*

*ENO 0000 A/B, Strona 61*

*LSN 0300 A, Strona 68*

*NZM 0002 A, Strona 106*

*RMH 0002 A, Strona 119*

*IOS 0020 A, Strona 120*

*FPE-5000-UGM, Strona 122*

*Interface Modules, Strona 124*

*FLM-420-4/CON-D/S, Strona 125*

*FLM-420-I8R1-S, Strona 158*

*FLM-420-NAC-D/S, Strona 160*

*FLM-420-RHV, Strona 172*

*FLM-420-RLE-S, Strona 184*

*FLM-420-RLV1-E, Strona 185*

*FLM-420-RLV8-S, Strona 186*

*FMF-ADP-FBF/FMF-ADP-TTY, Strona 187*

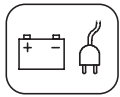
*EOL, Strona 188*

*CZM 0004 A, Strona 189*

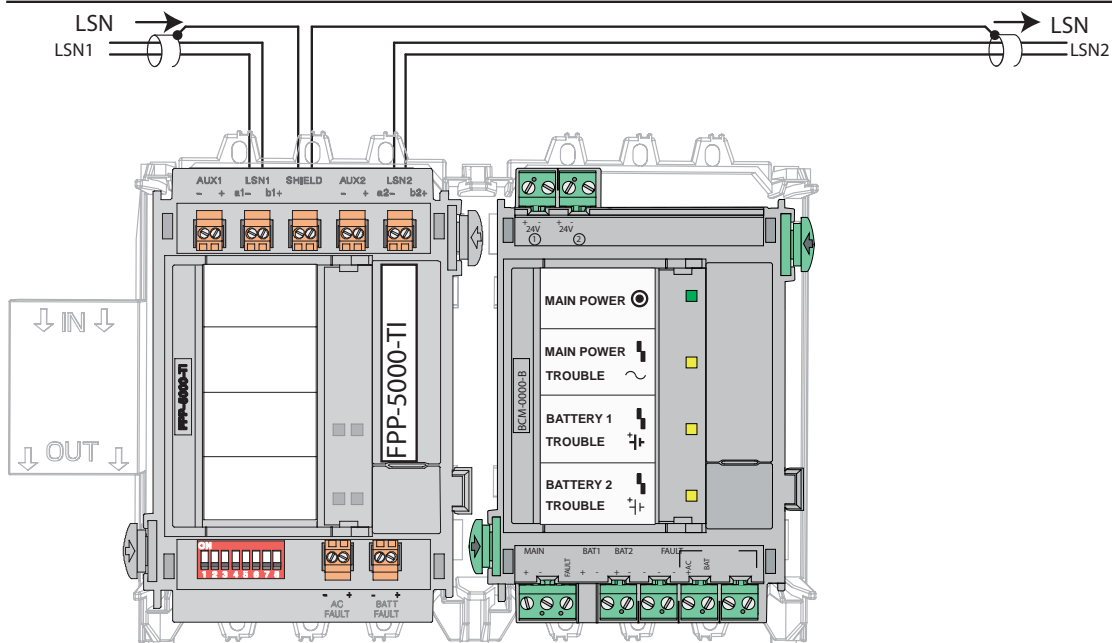
*LSN 0300 A, Strona 201*

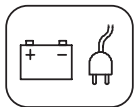
*FLM-420/4-CON-S/D, Strona 246*

## 2.1 FPP-5000 Power supply



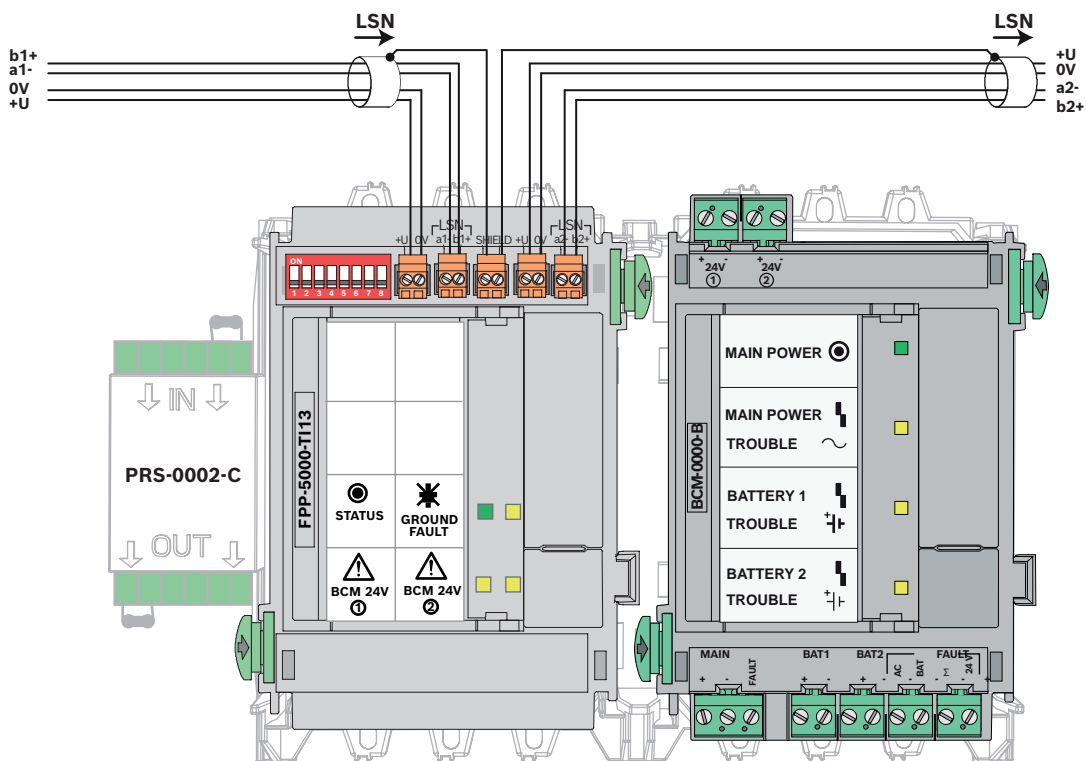
FPP-5000-TI



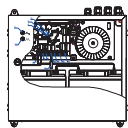
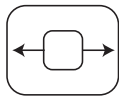


FPP-5000-TI13

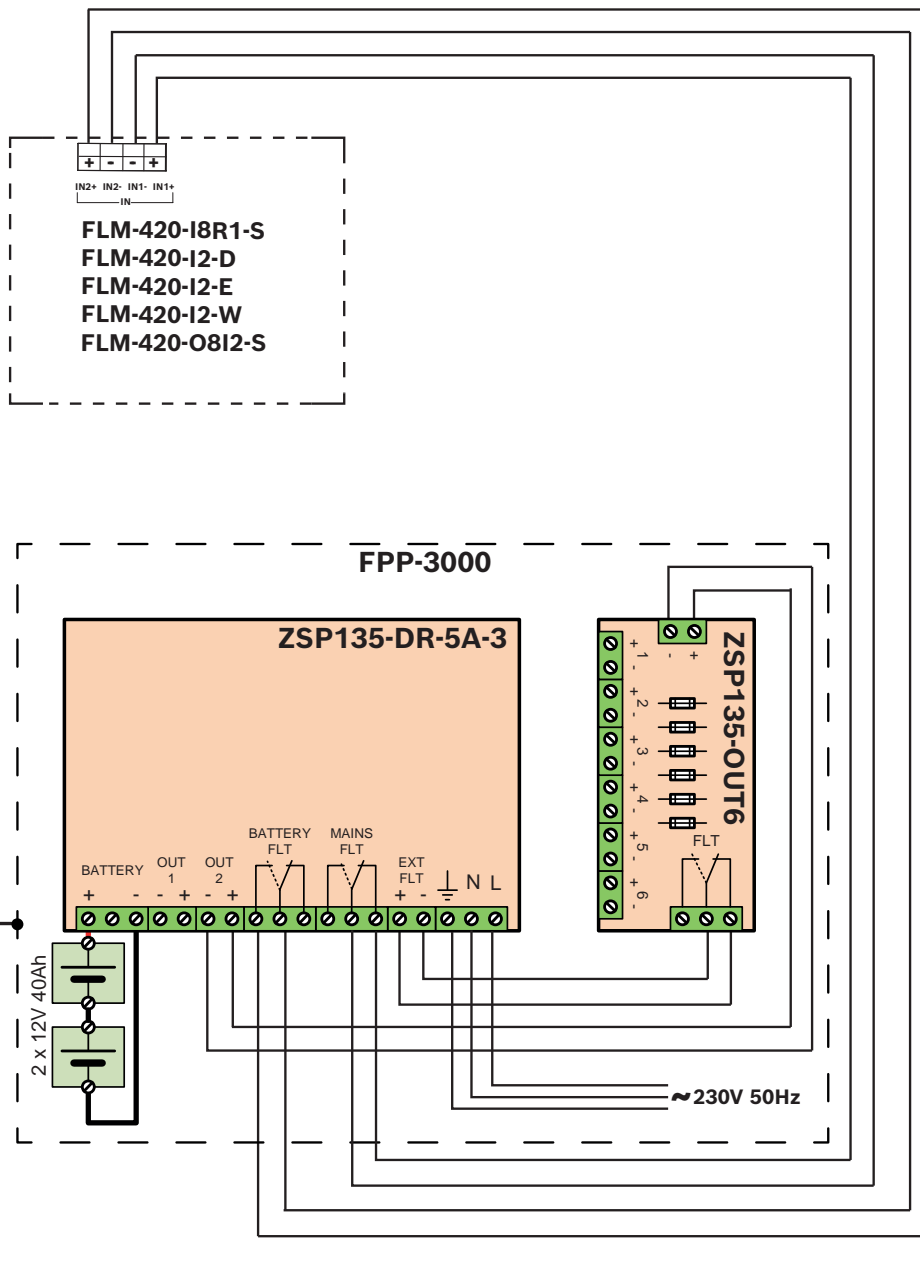
ELS

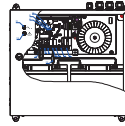
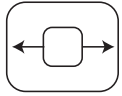


## 2.2 FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6)

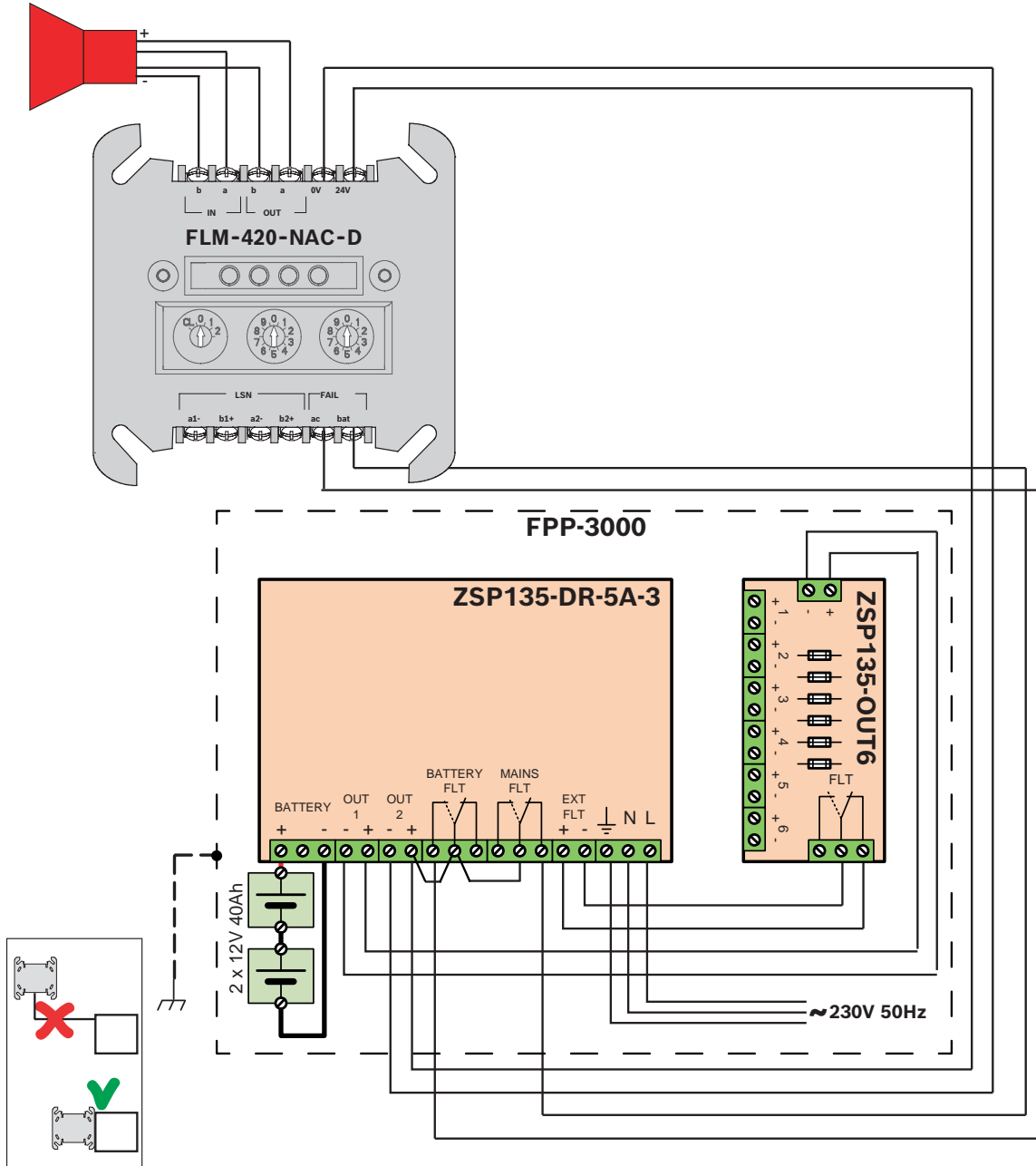


ZSP135-DR-5A-3  
ZSP135-OUT6  
FPP-3000





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



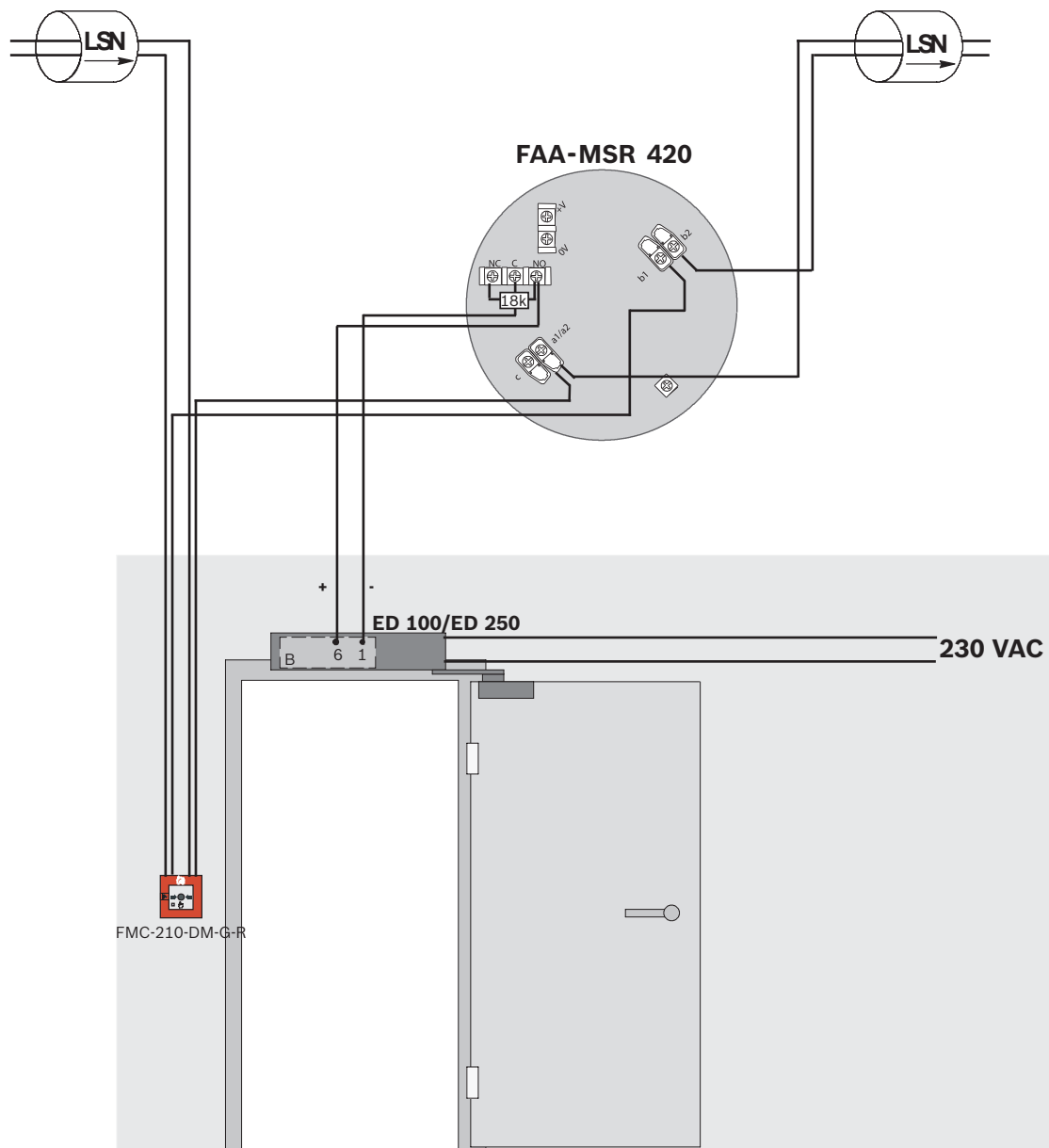
### 2.3

### DIBT



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

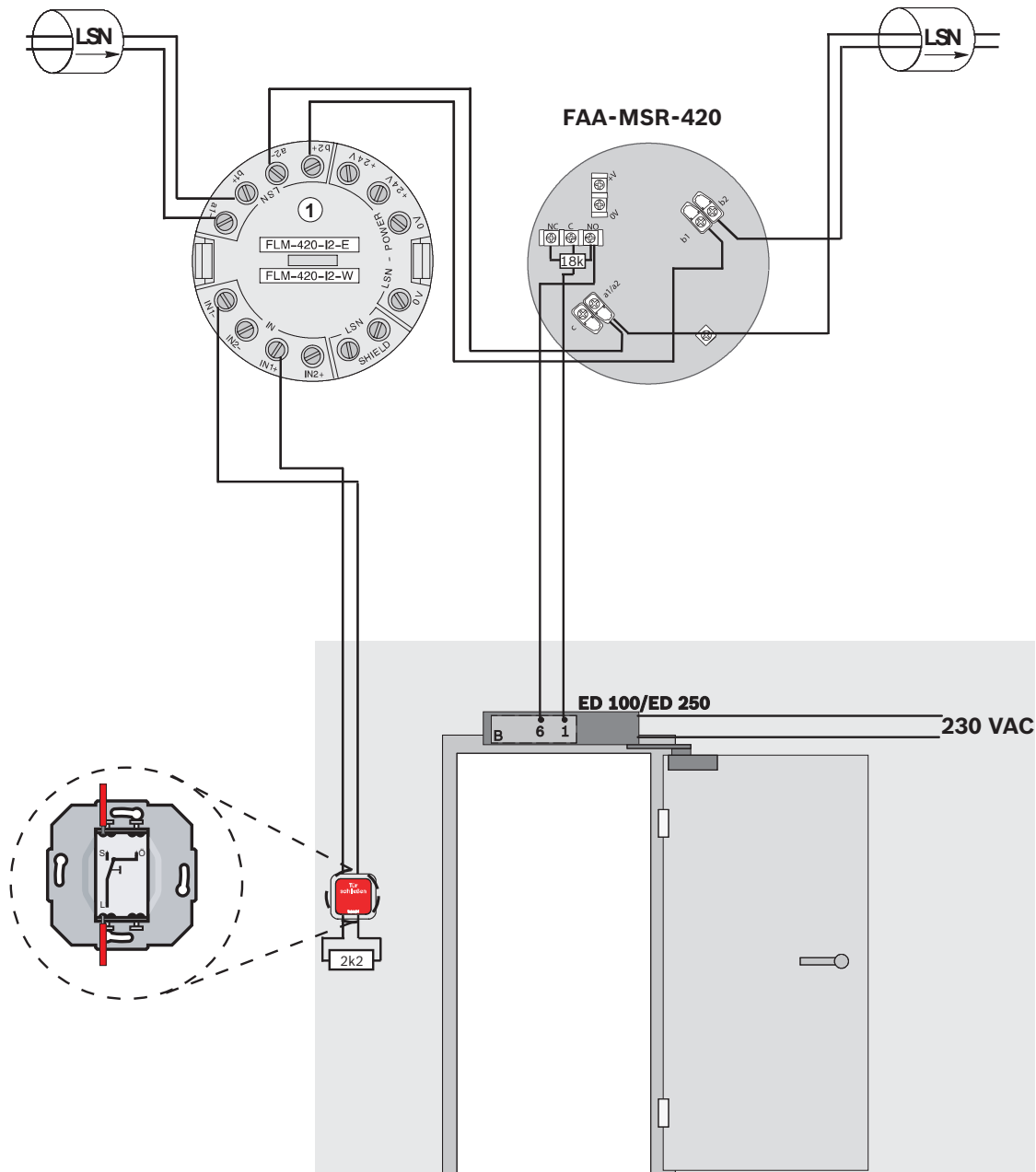
**DIBT**



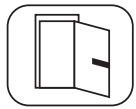


**ED 100  
ED 250  
(+Upgrade Card B)**

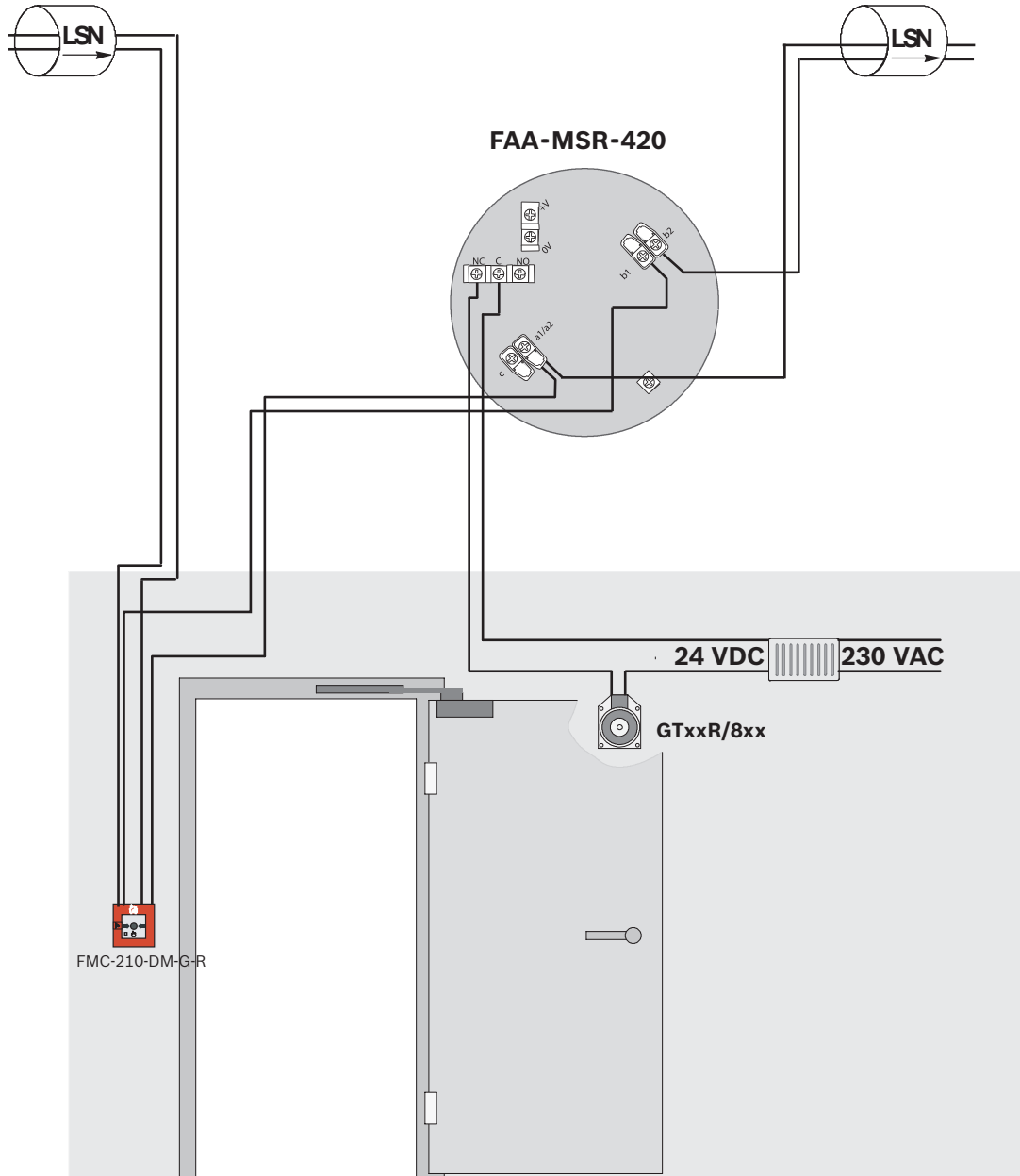
**DIBT**





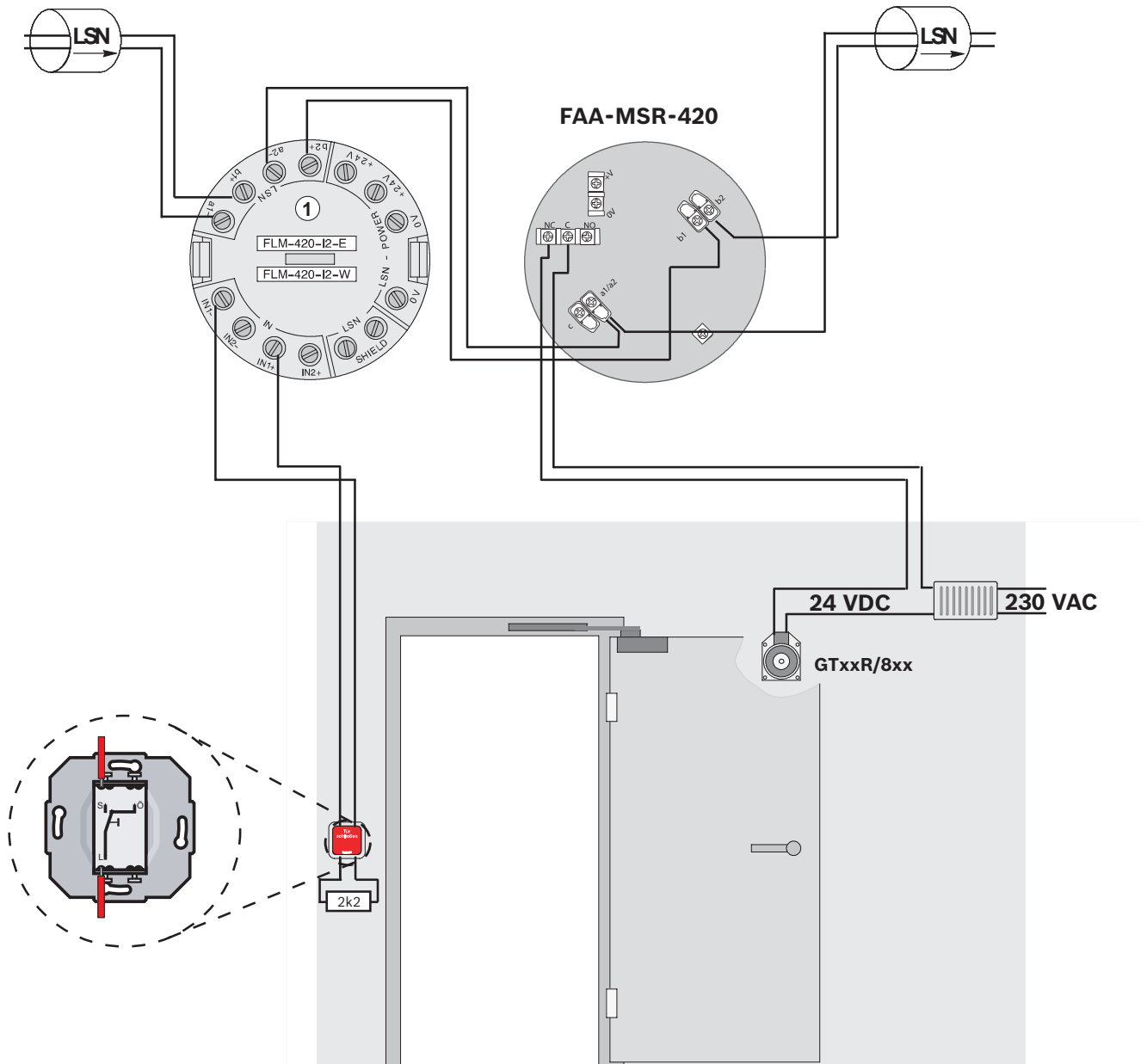


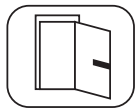
DIBT





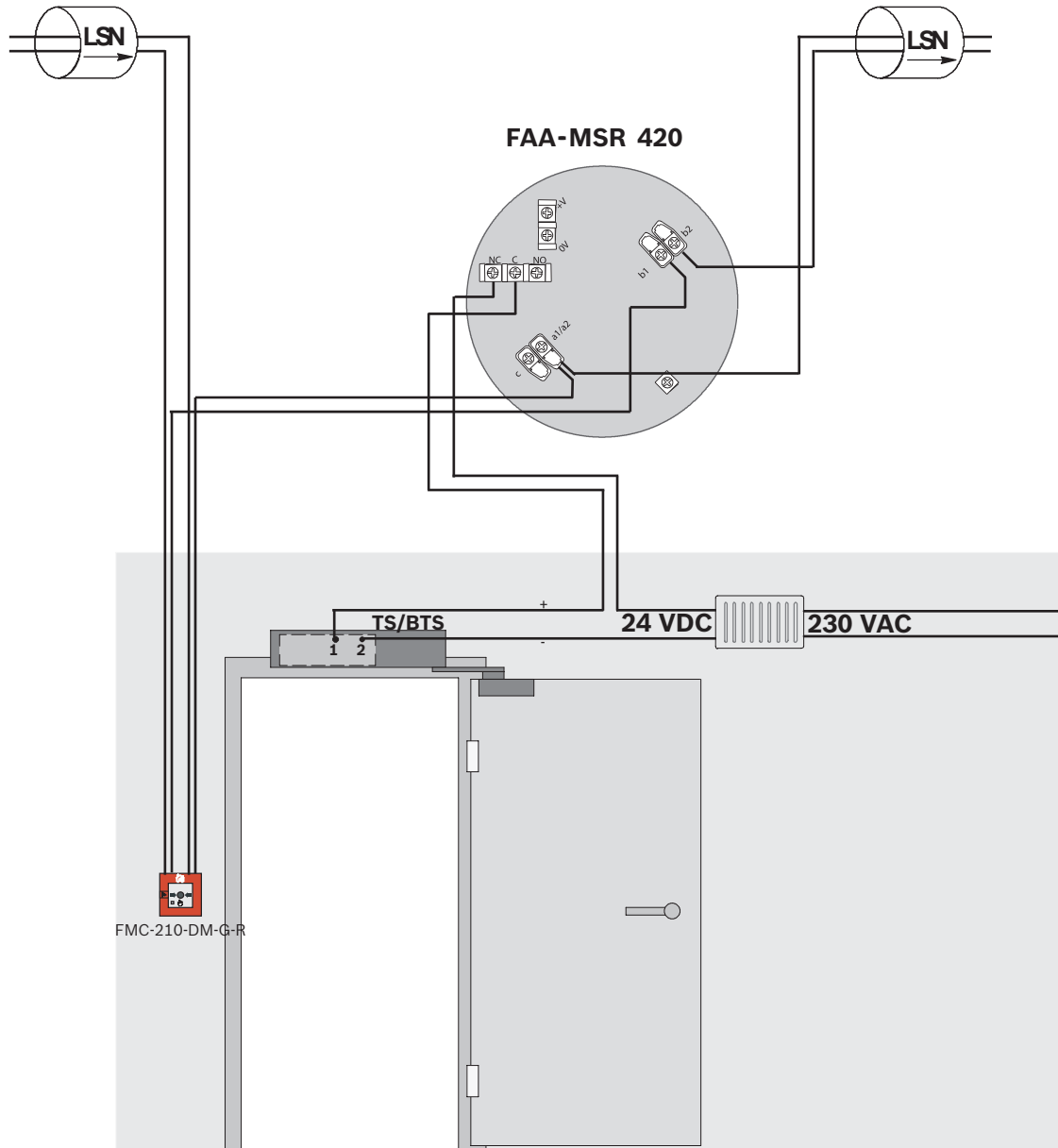
**DIBT**





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

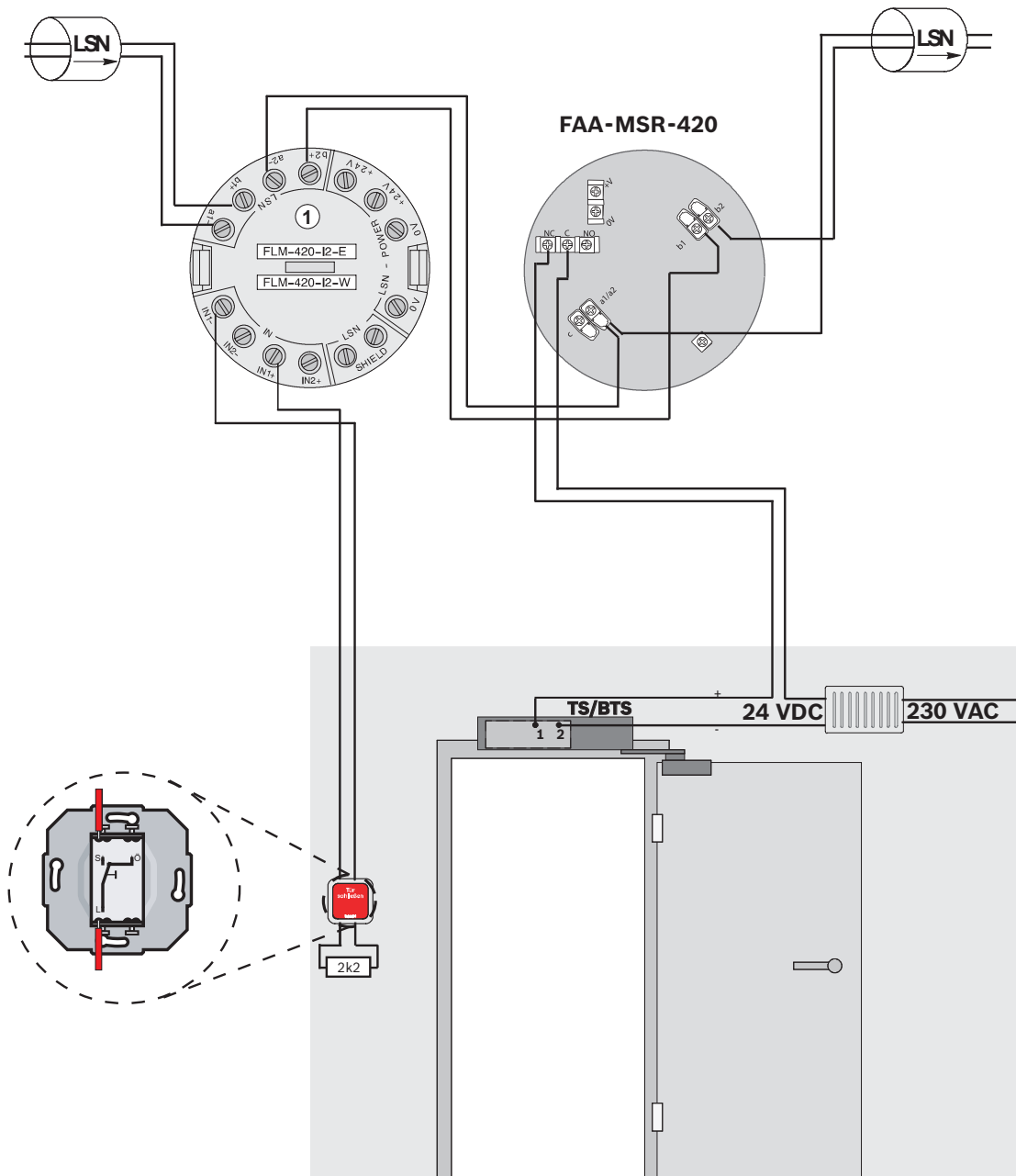
DIBT

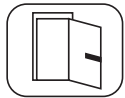




TS 73 EMF  
 TS 93 EMF  
 TS 93 GSR  
 BTS 80 EMB  
 BTS 80 FLB

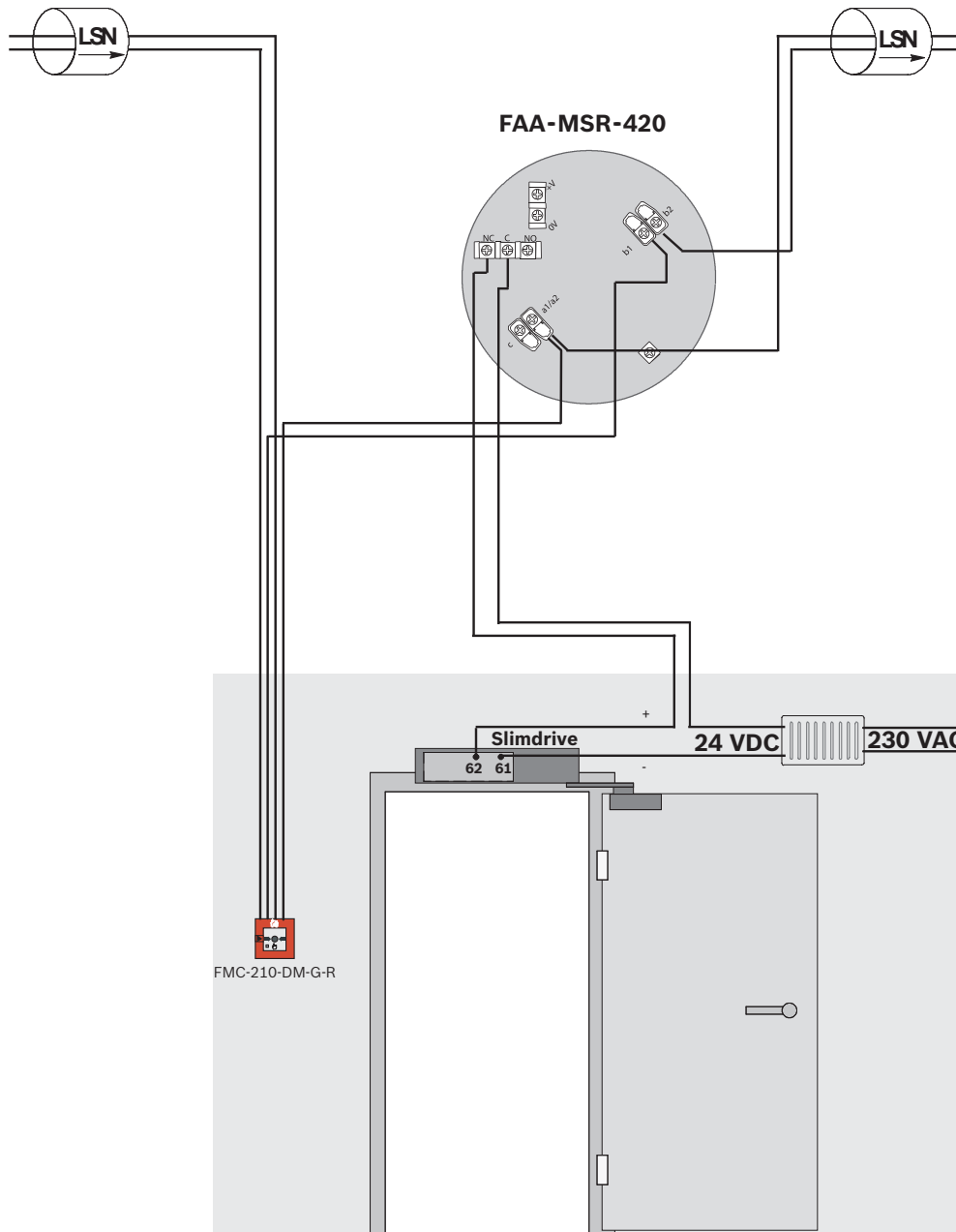
DIBT





Slimdrive EMD-F/EMD F-IS

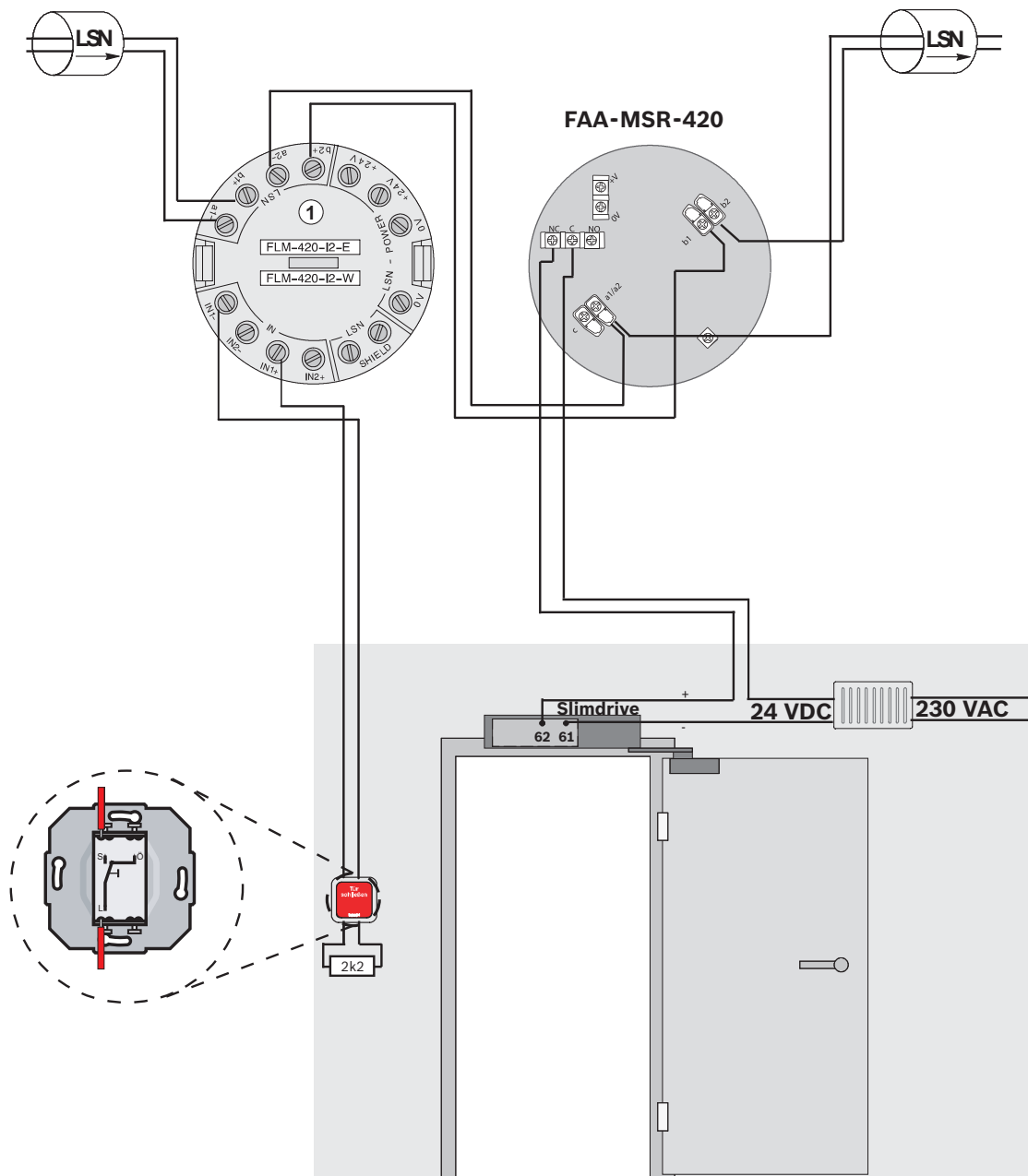
DIBT

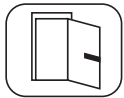




Slimdrive EMD-F/EMD F-IS

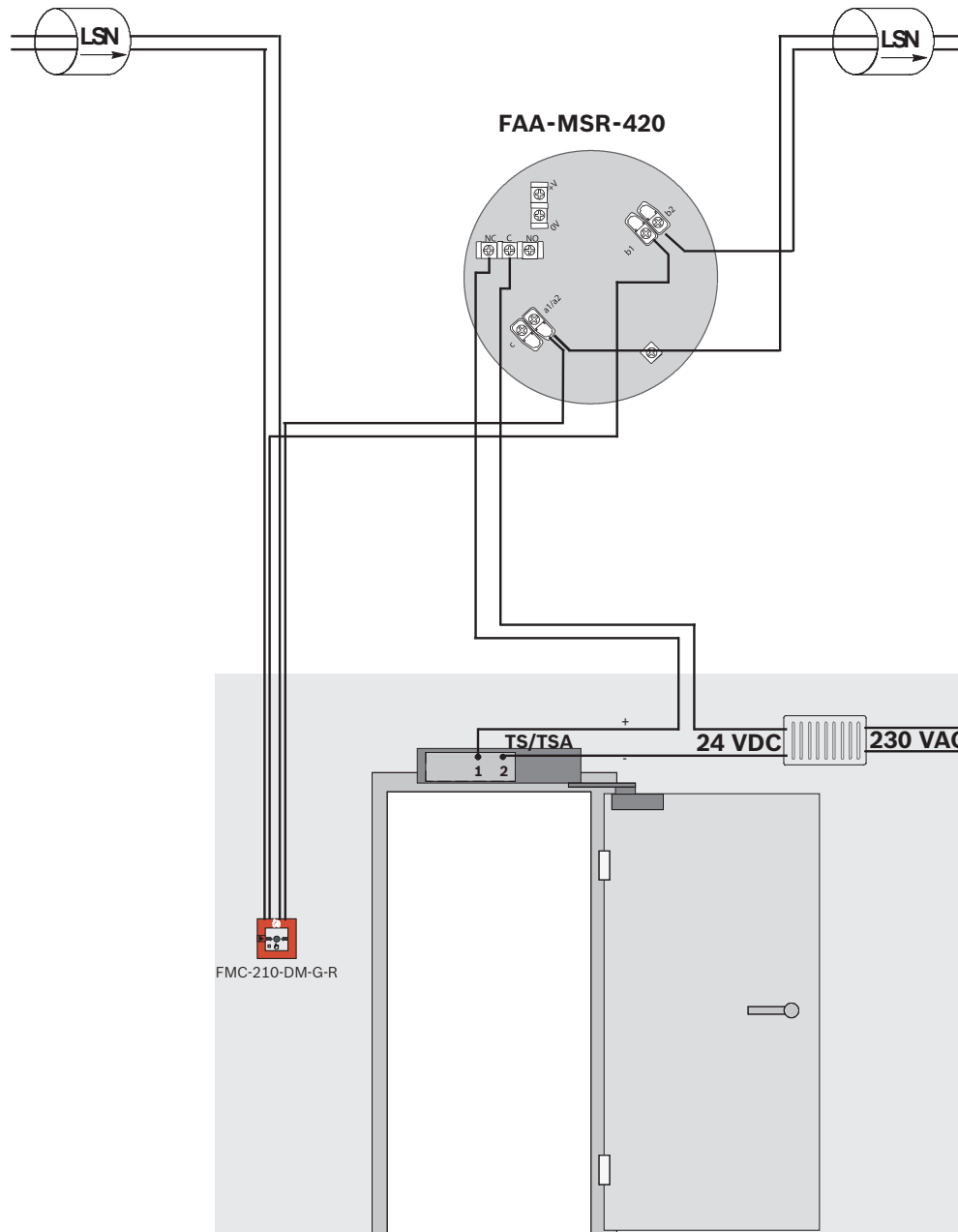
DIBT

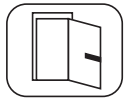




TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

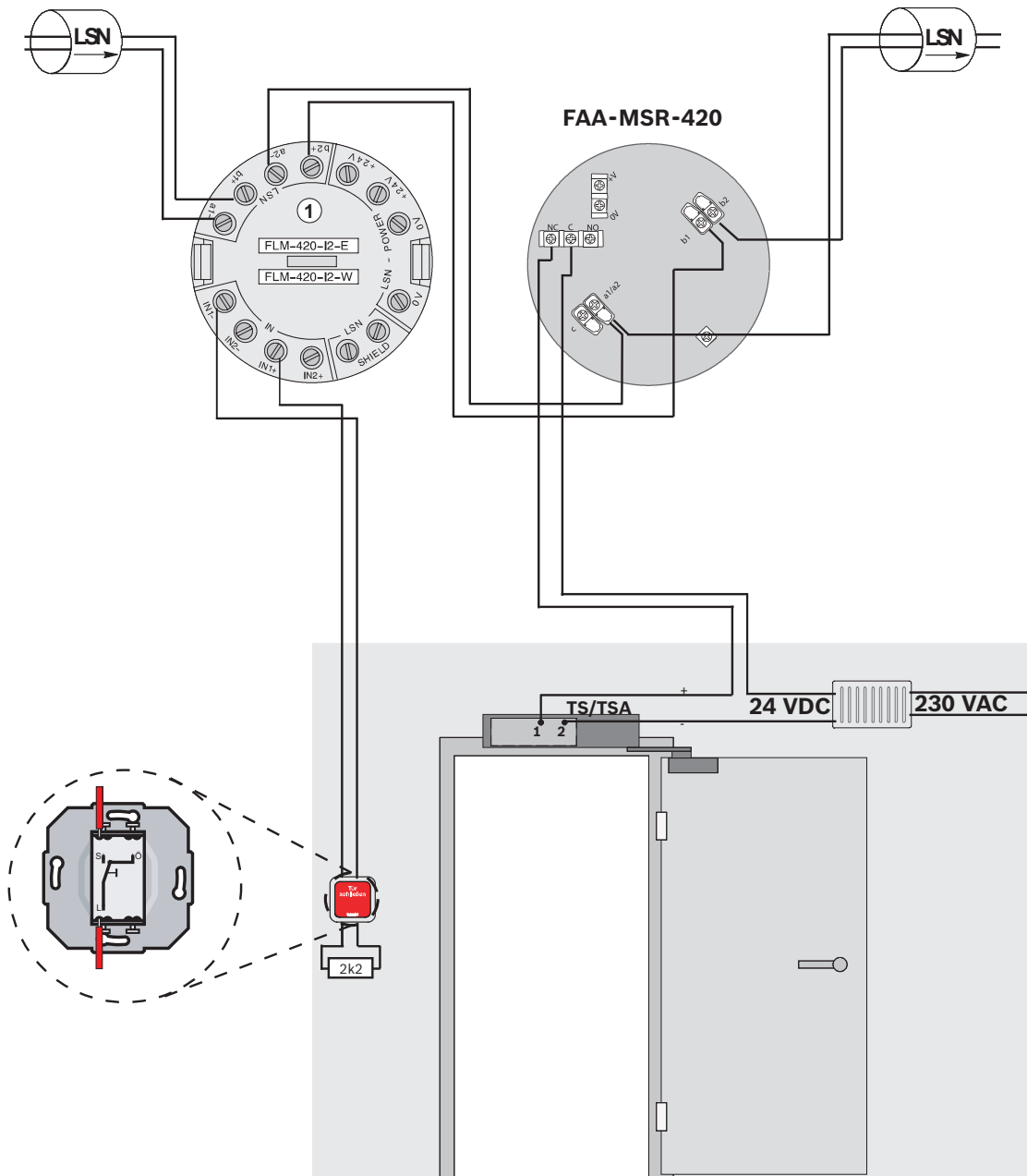
DIBT



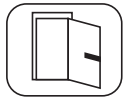


TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

DIBT

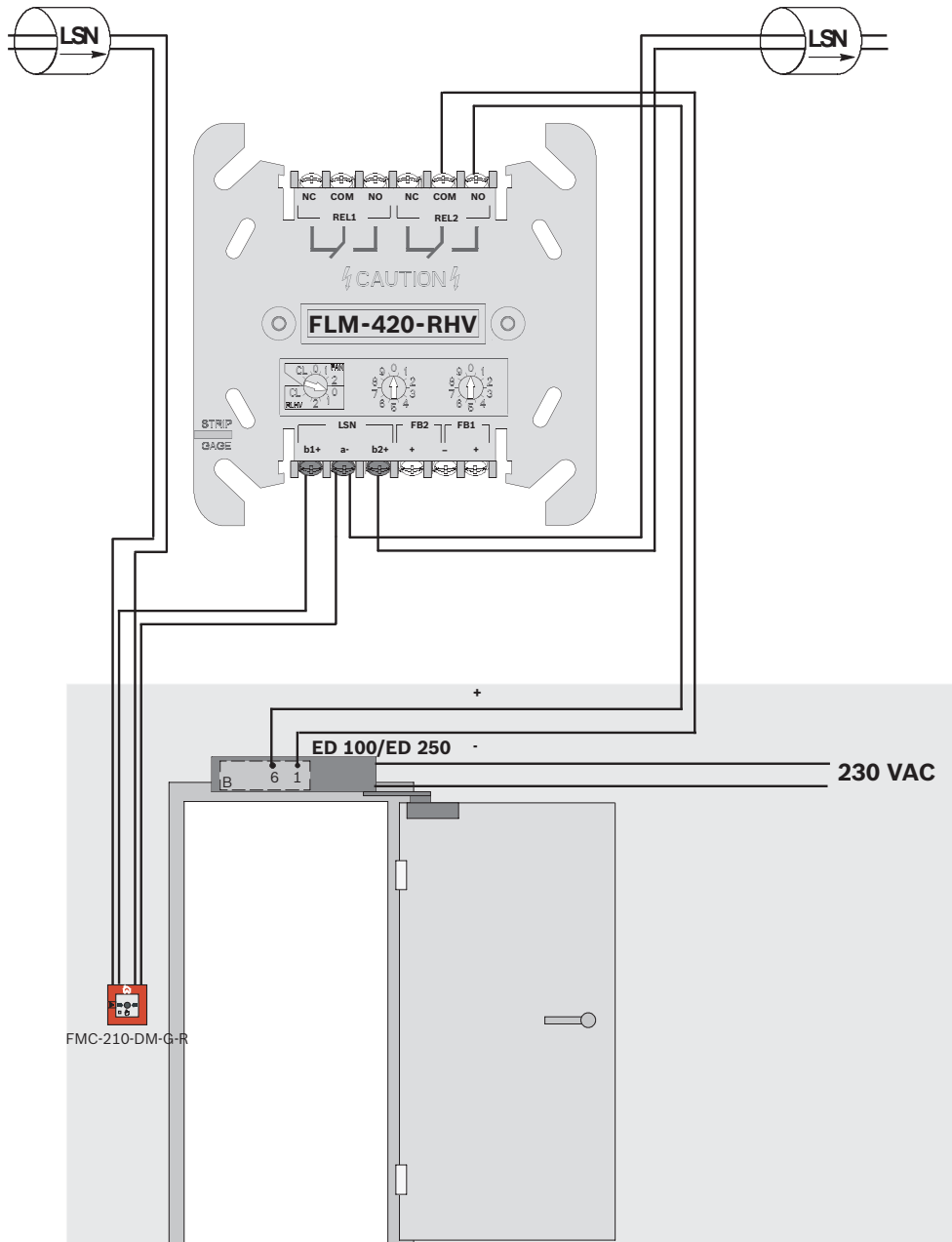


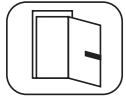




**ED 100  
ED 250  
(+Upgrade Card B**

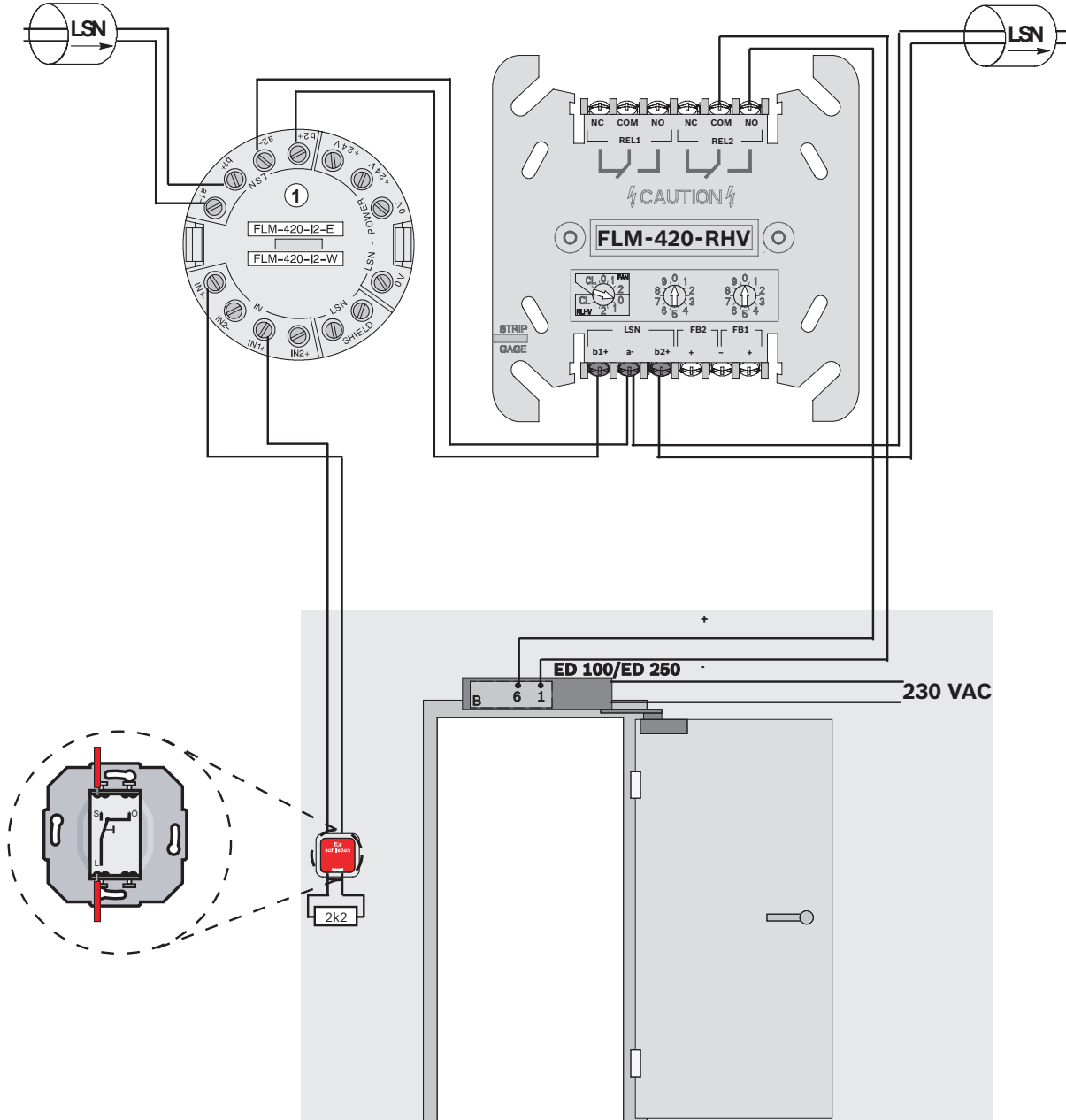
**DIBT**

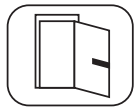




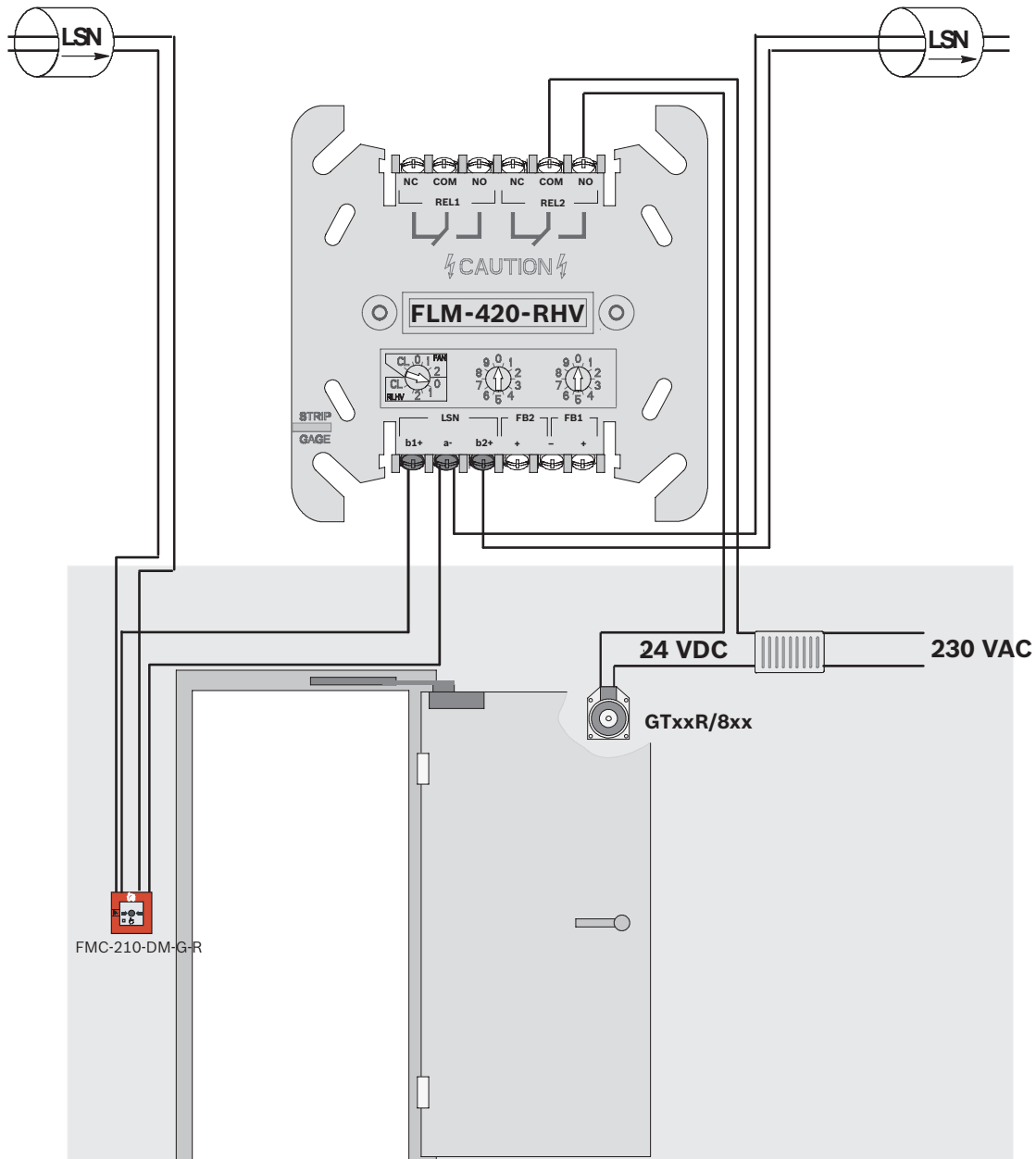
**ED 100  
ED 250  
(+Upgrade Card B)**

**DIBT**





DIBT

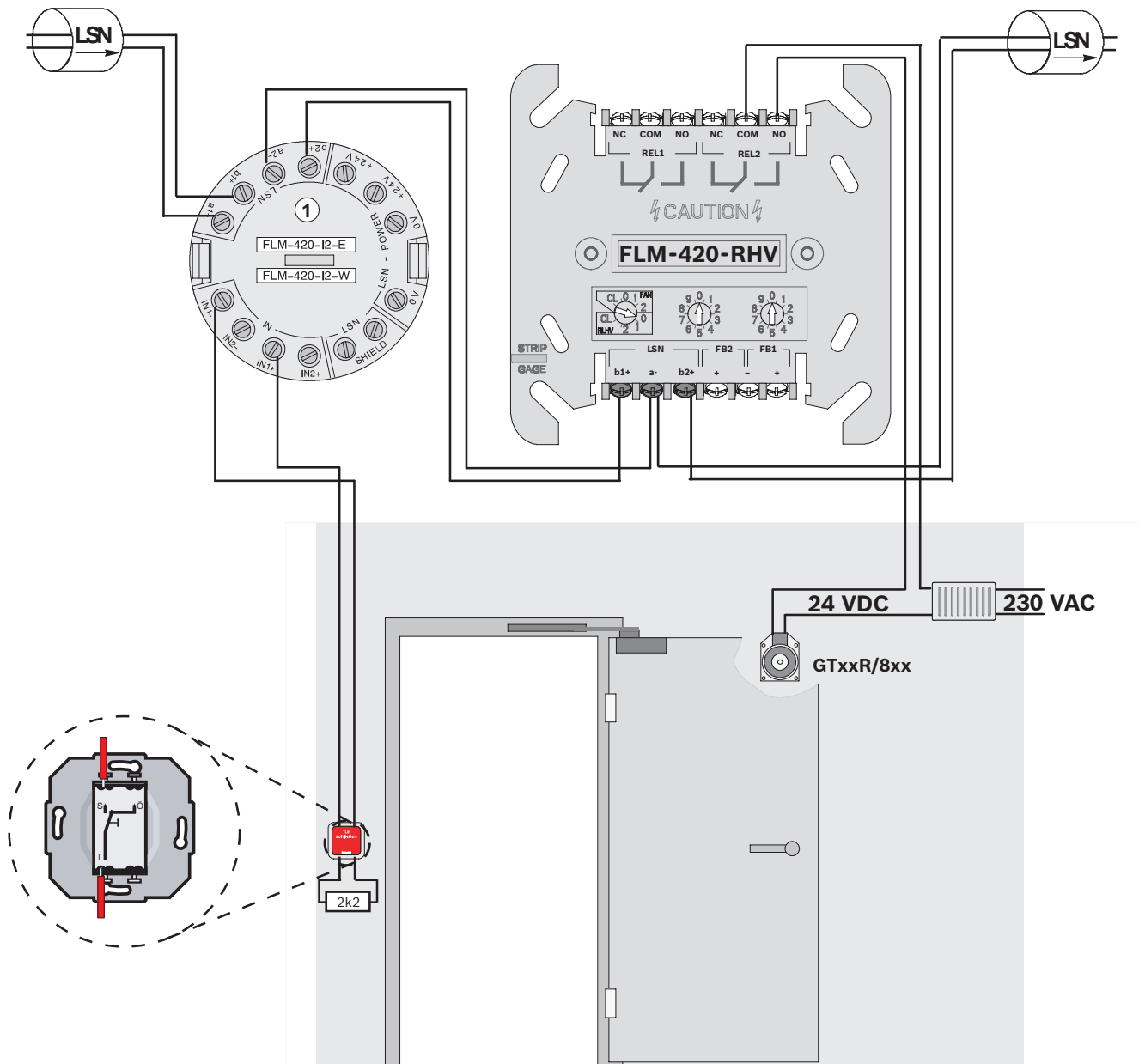


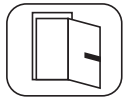


GT xx R

8 xx

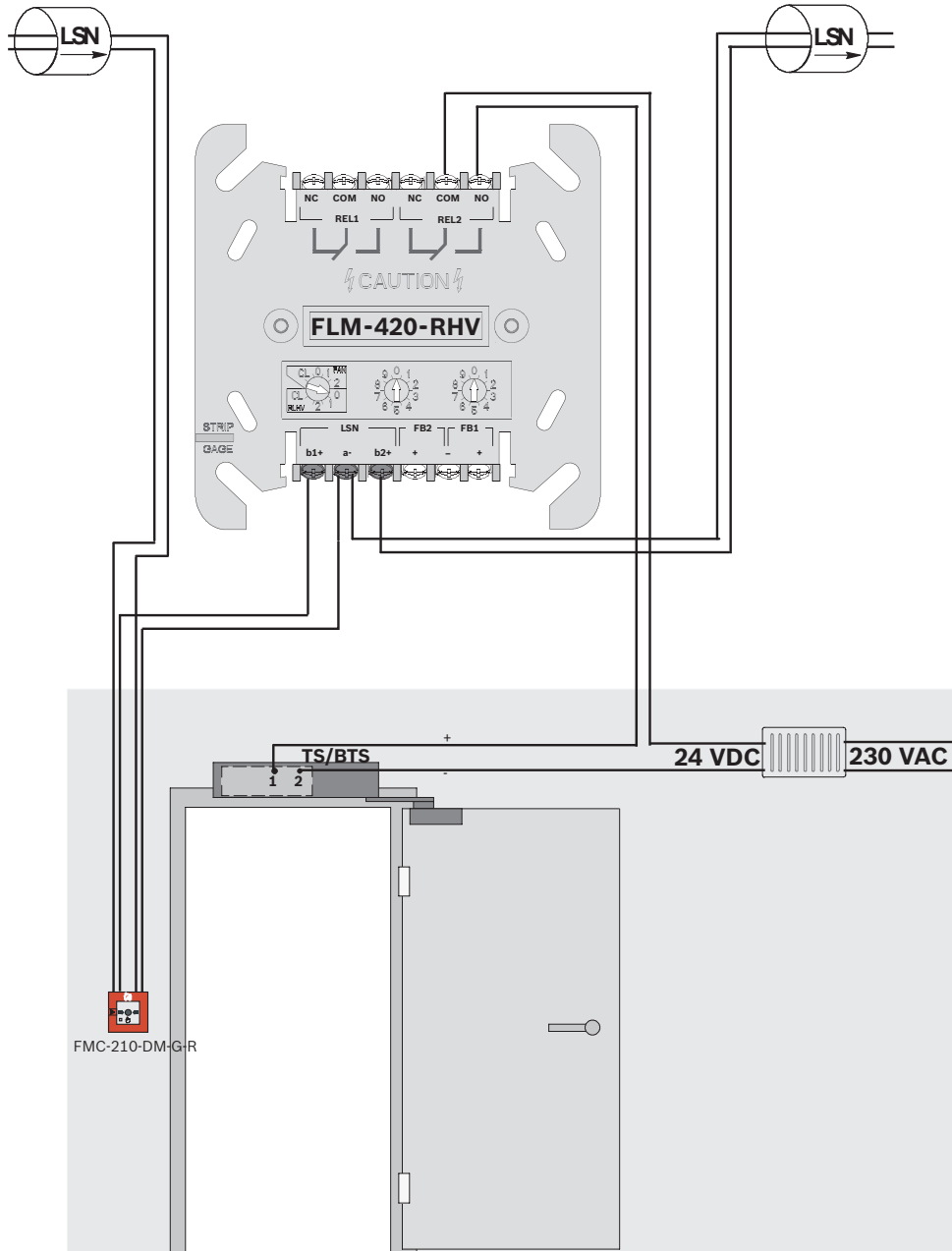
DIBT





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

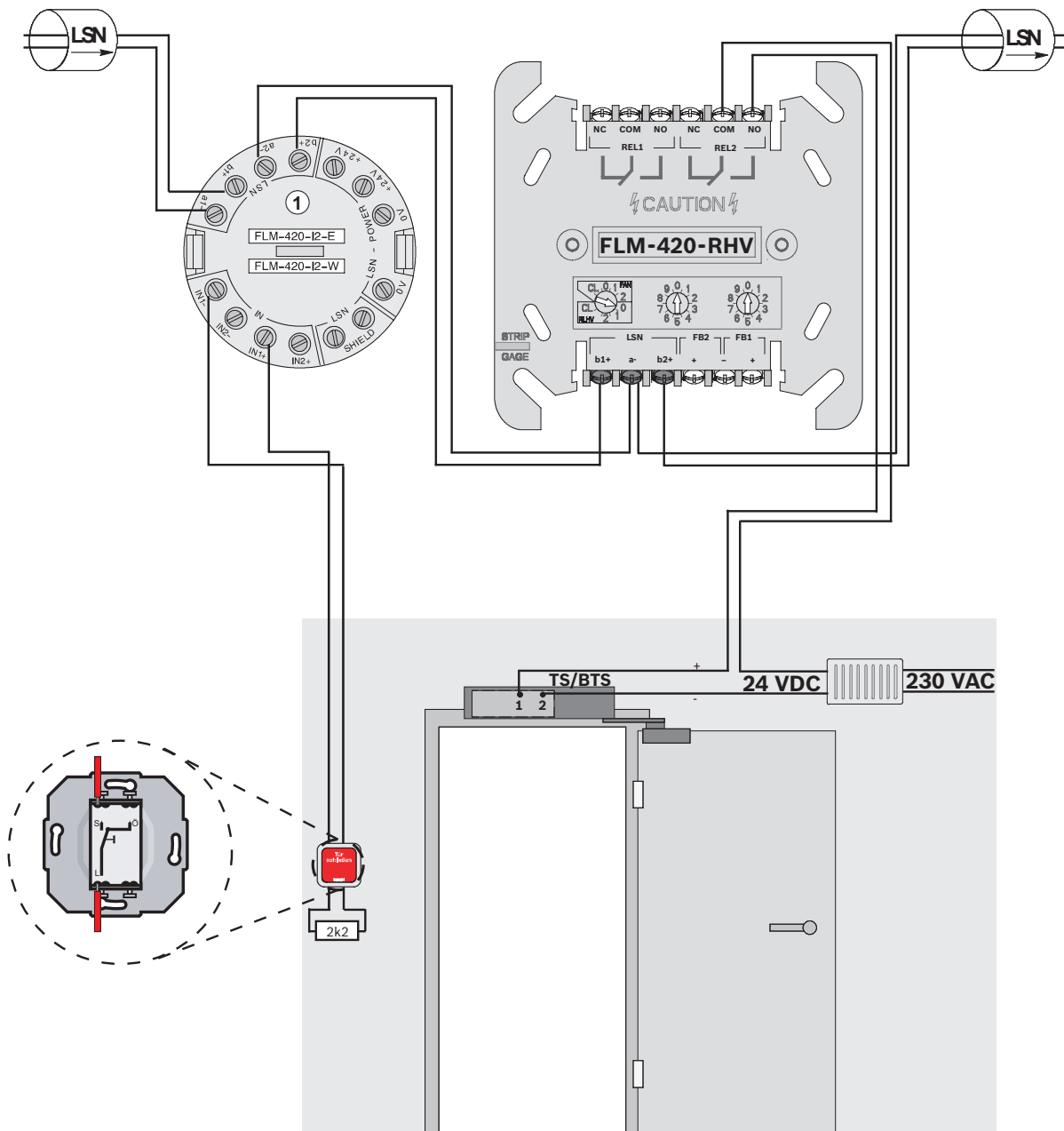
DIBT





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

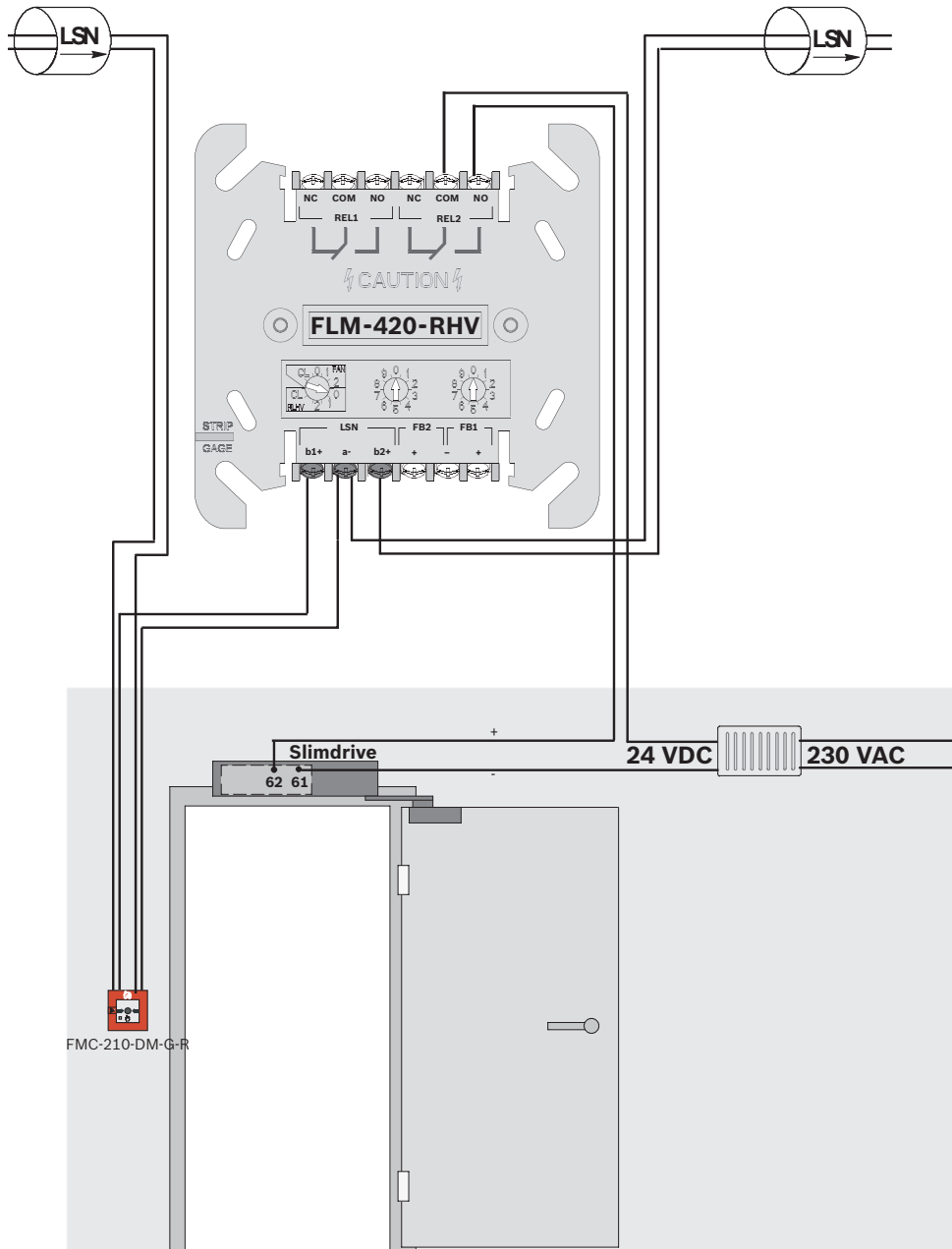
DIBT





Slimdrive EMD-F/EMD F-IS

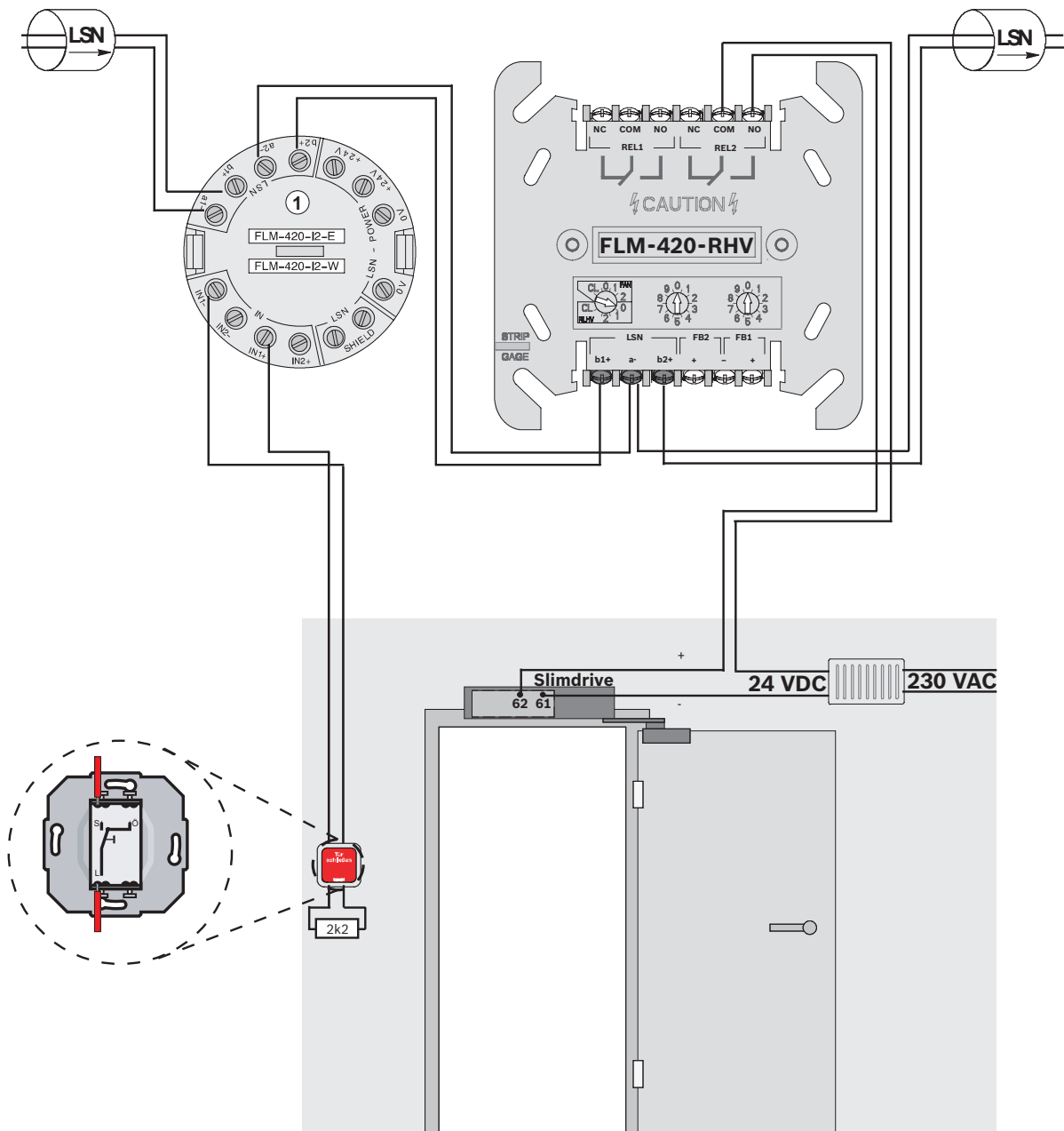
DIBT



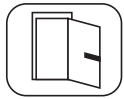


Slimdrive EMD-F/EMD F-IS

DIBT

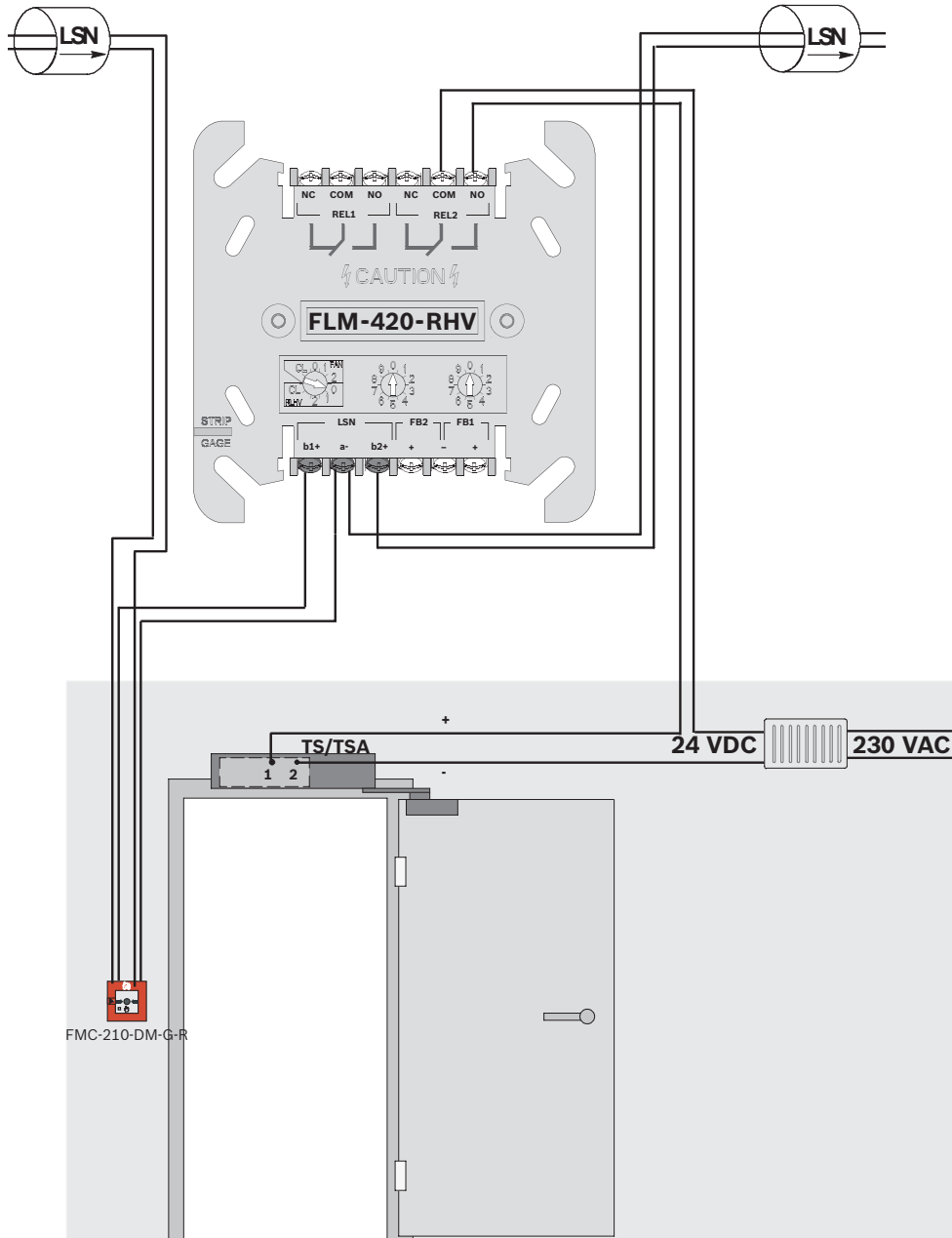






TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

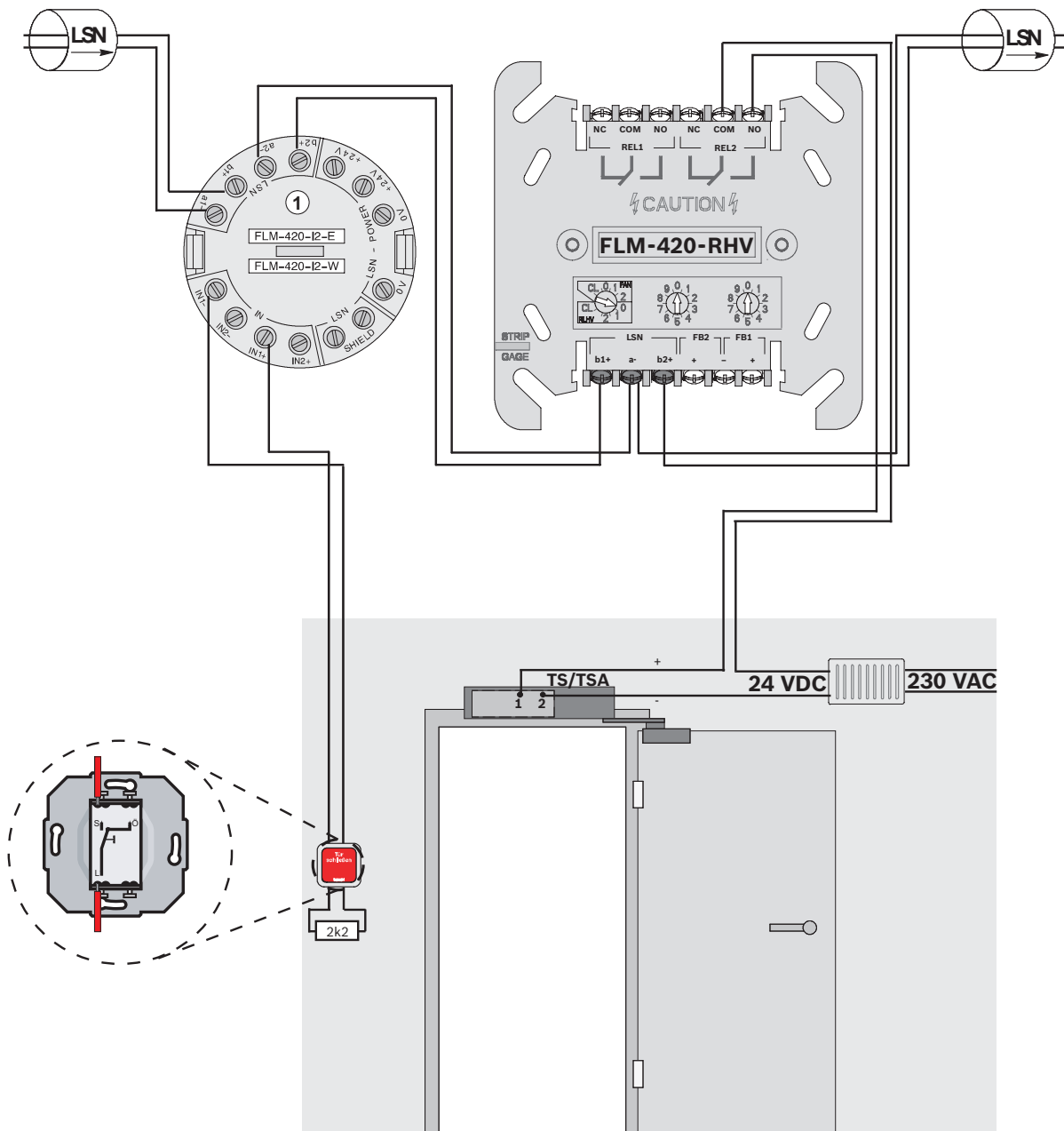
DIBT

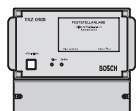




**TS 4000 E/E-IS/EFS**  
**TS 5000 E/E-IS/E-ISM**  
**TS 550 E**  
**TSA 160 NT F/F-IS/F-IS/TS**

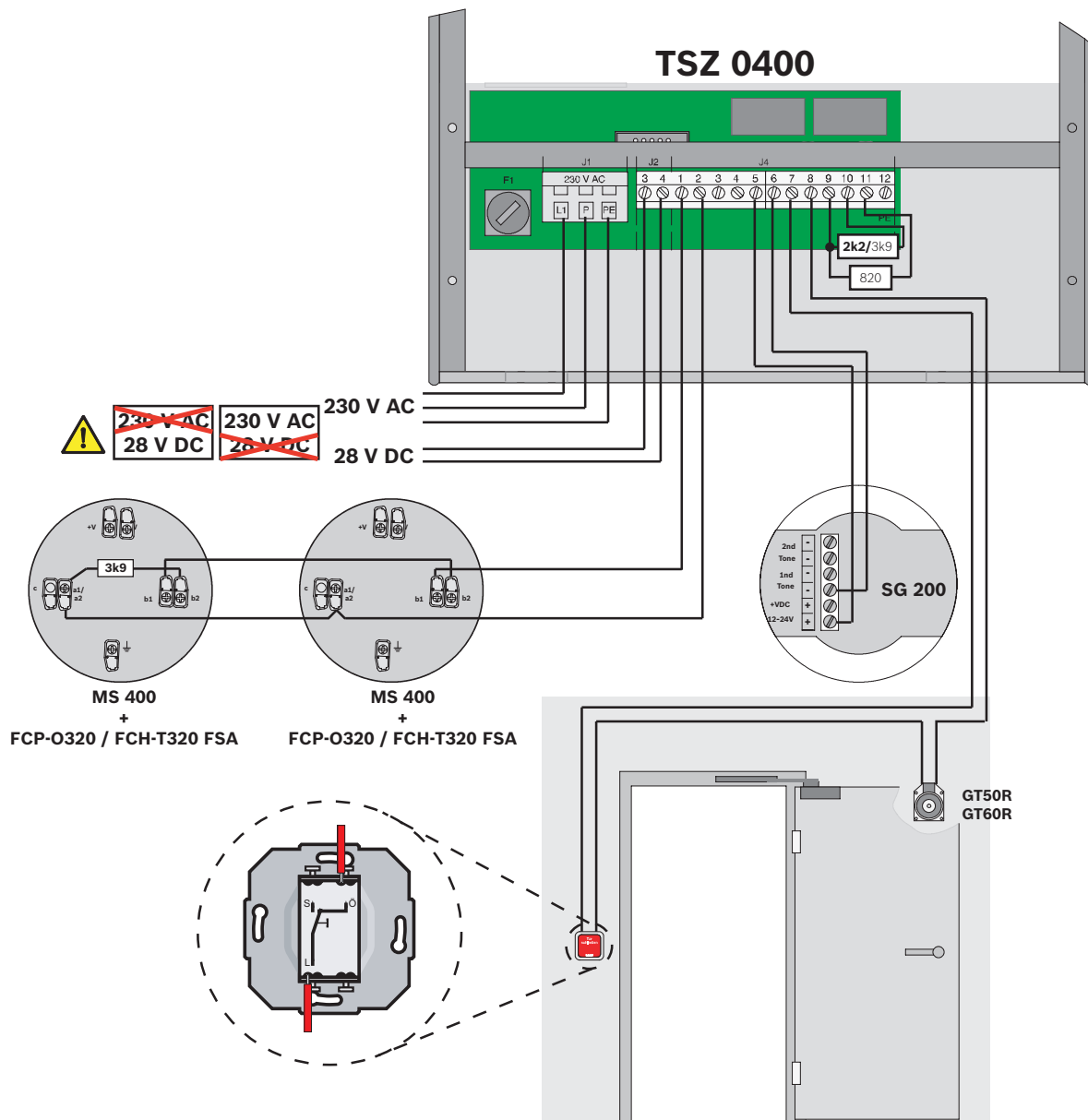
**DIBT**





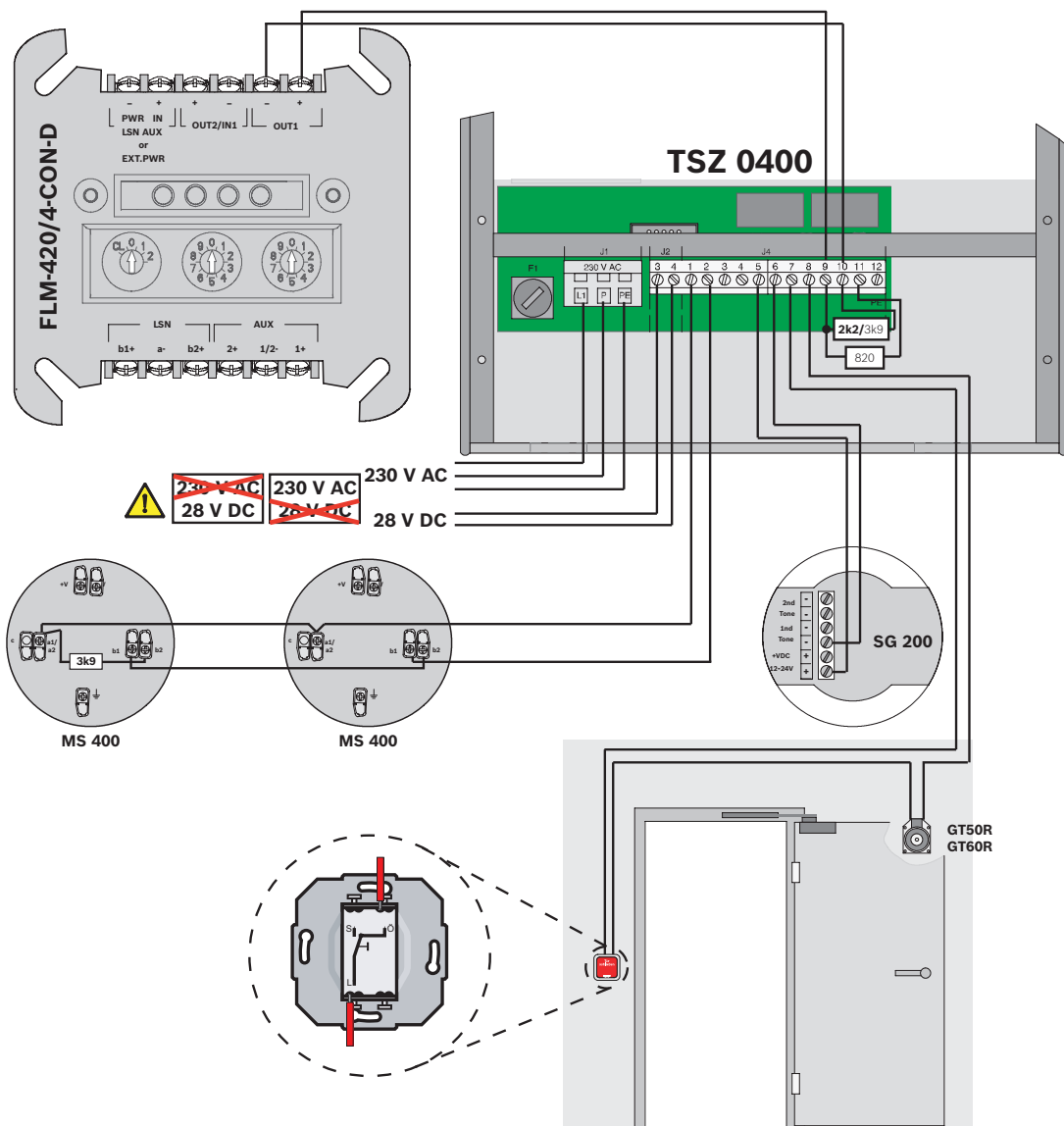
TSZ 0400

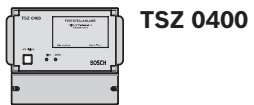
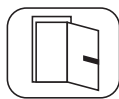
DIBT



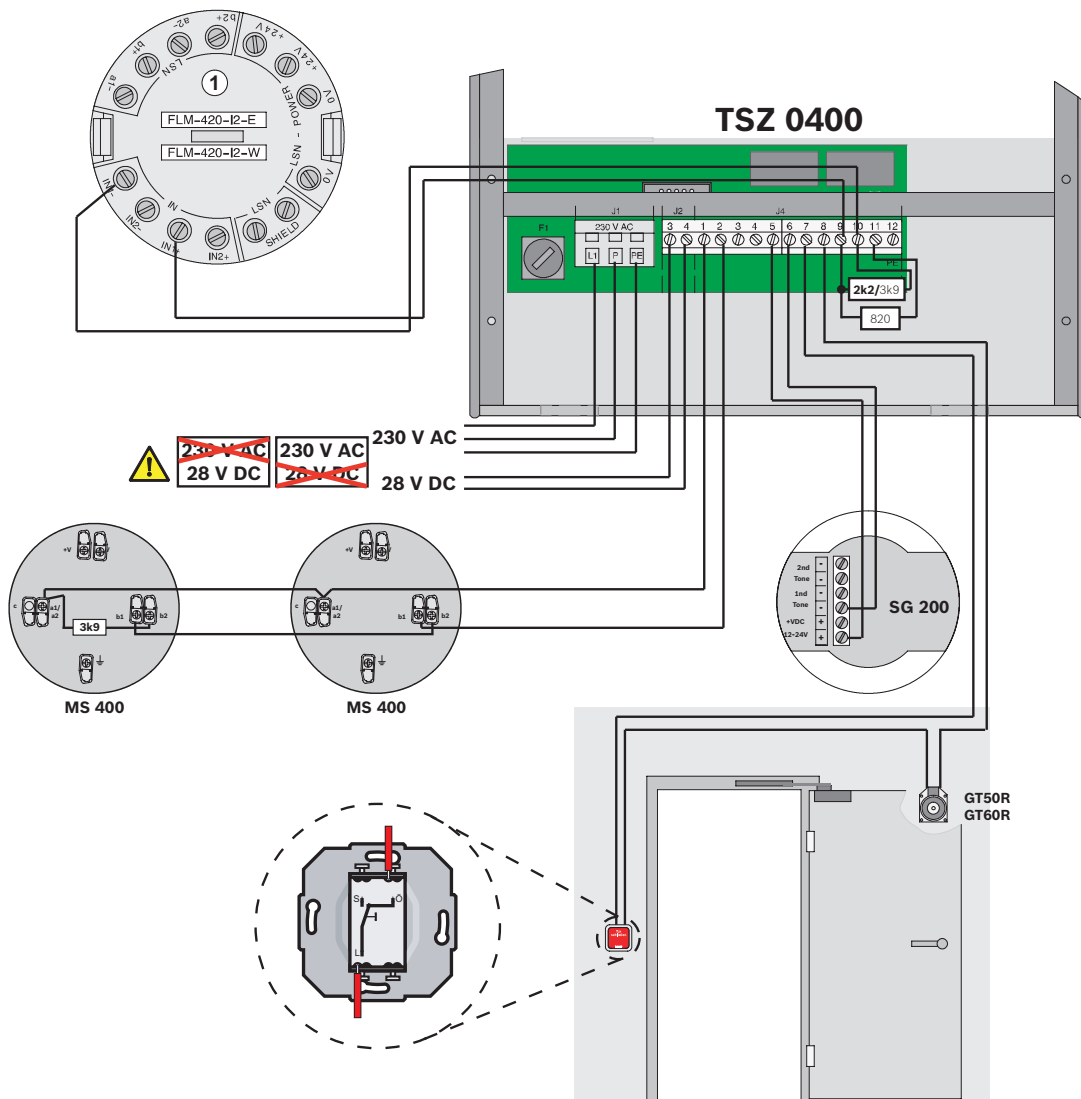


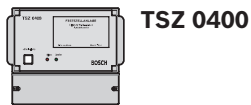
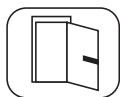
DIBT



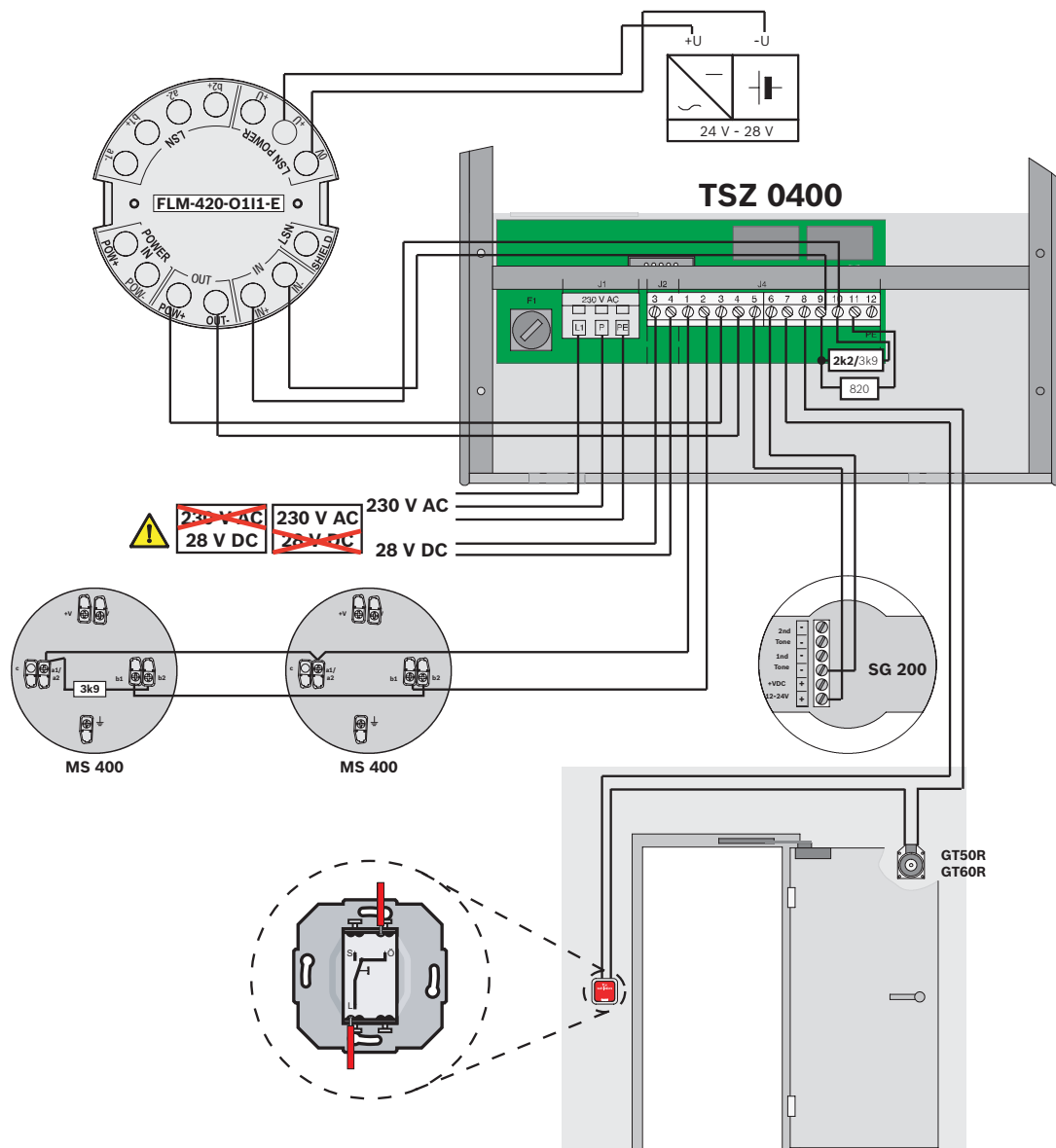


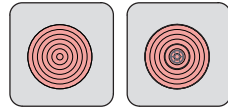
**DIBT**



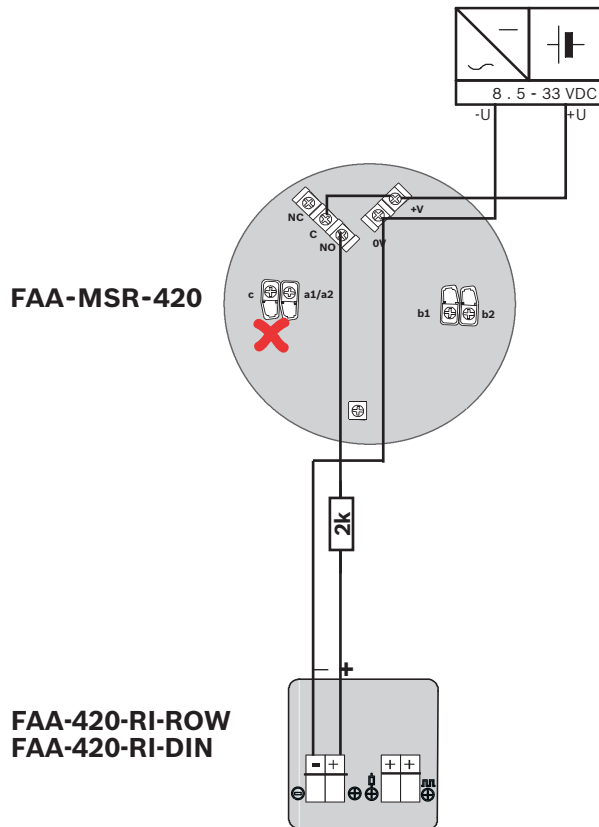
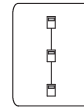


DIBT



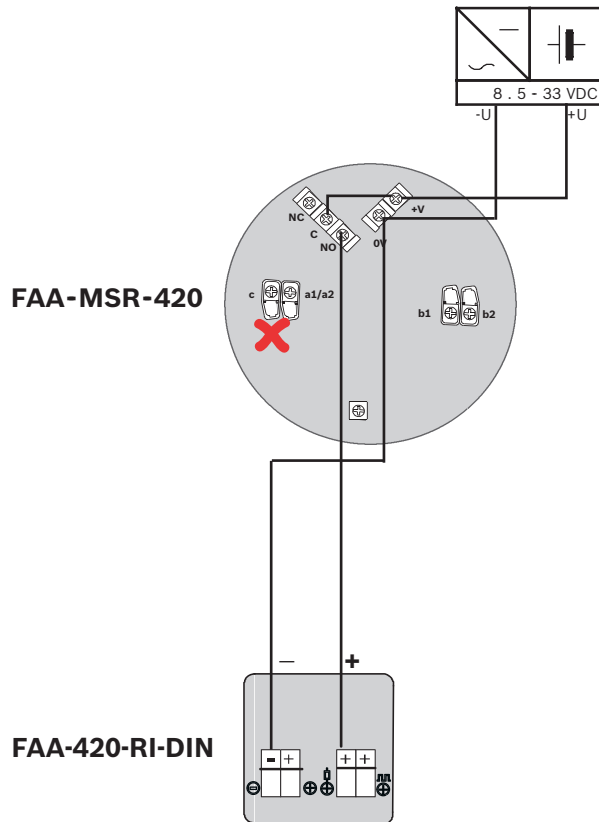
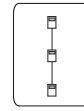


**FAA-420-RI-ROW**  
**FAA-420-RI-DIN**





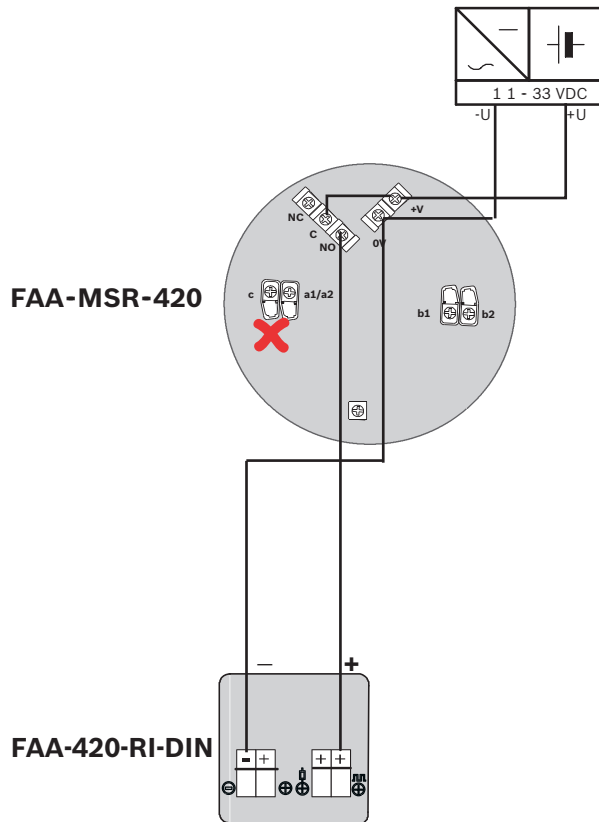
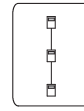
**FAA-420-RI-DIN**







**FAA-420-RI-DIN**



## 2.4

### Functional Modules



*BCM-000-B, Strona 43*

*CZM 0004 A, Strona 45*

*ENO 0000 A/B, Strona 61*

*LSN 0300 A, Strona 68*

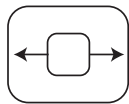
*NZM 0002 A, Strona 106*

*RMH 0002 A, Strona 119*

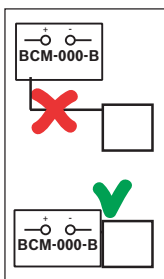
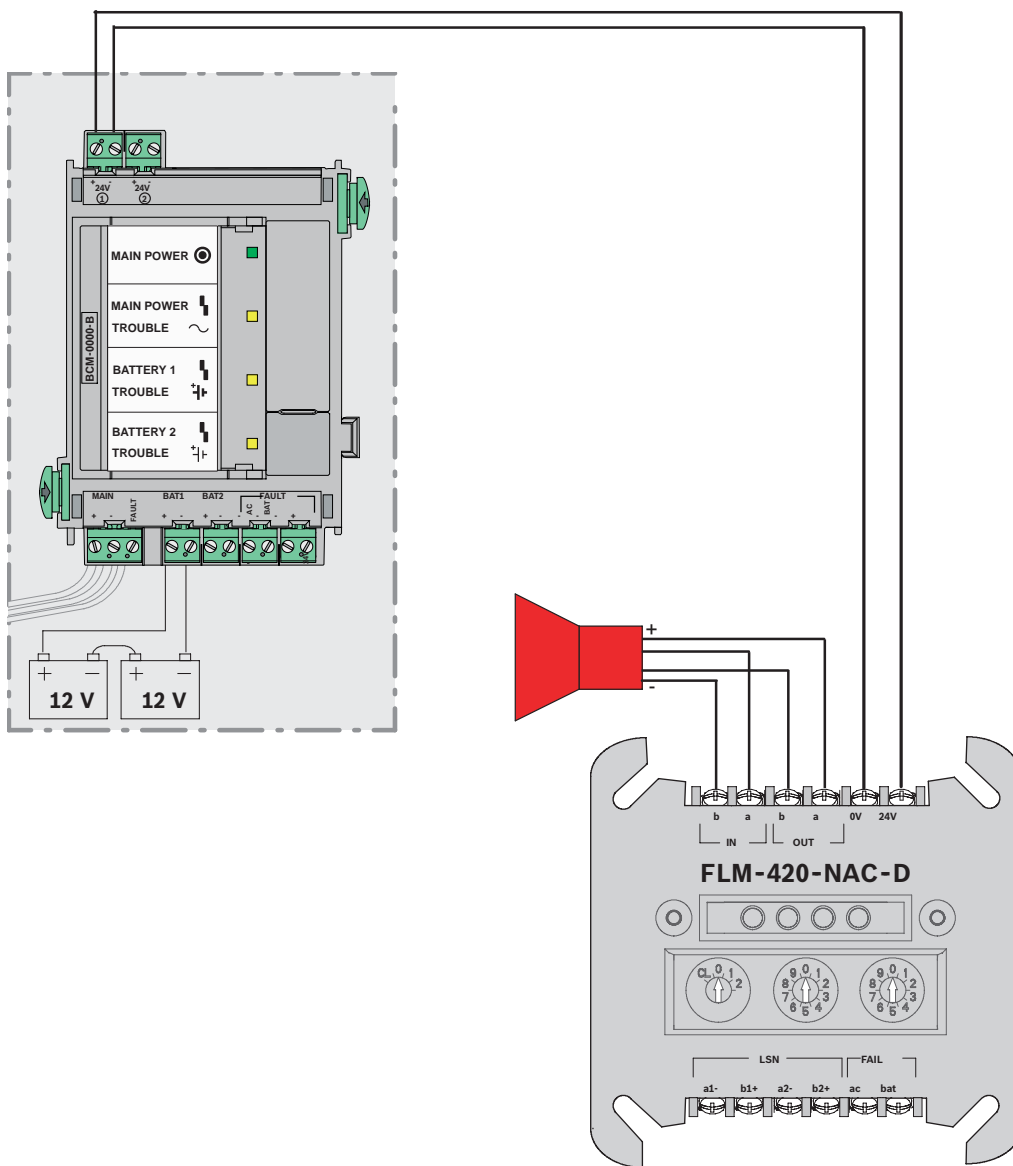
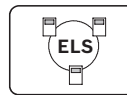
*IOS 0020 A, Strona 120*

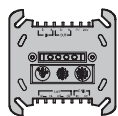
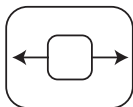
*FPE-5000-UGM, Strona 122*

### 2.4.1 BCM-000-B

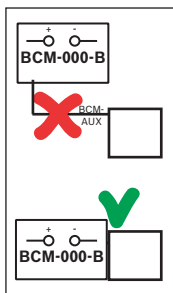
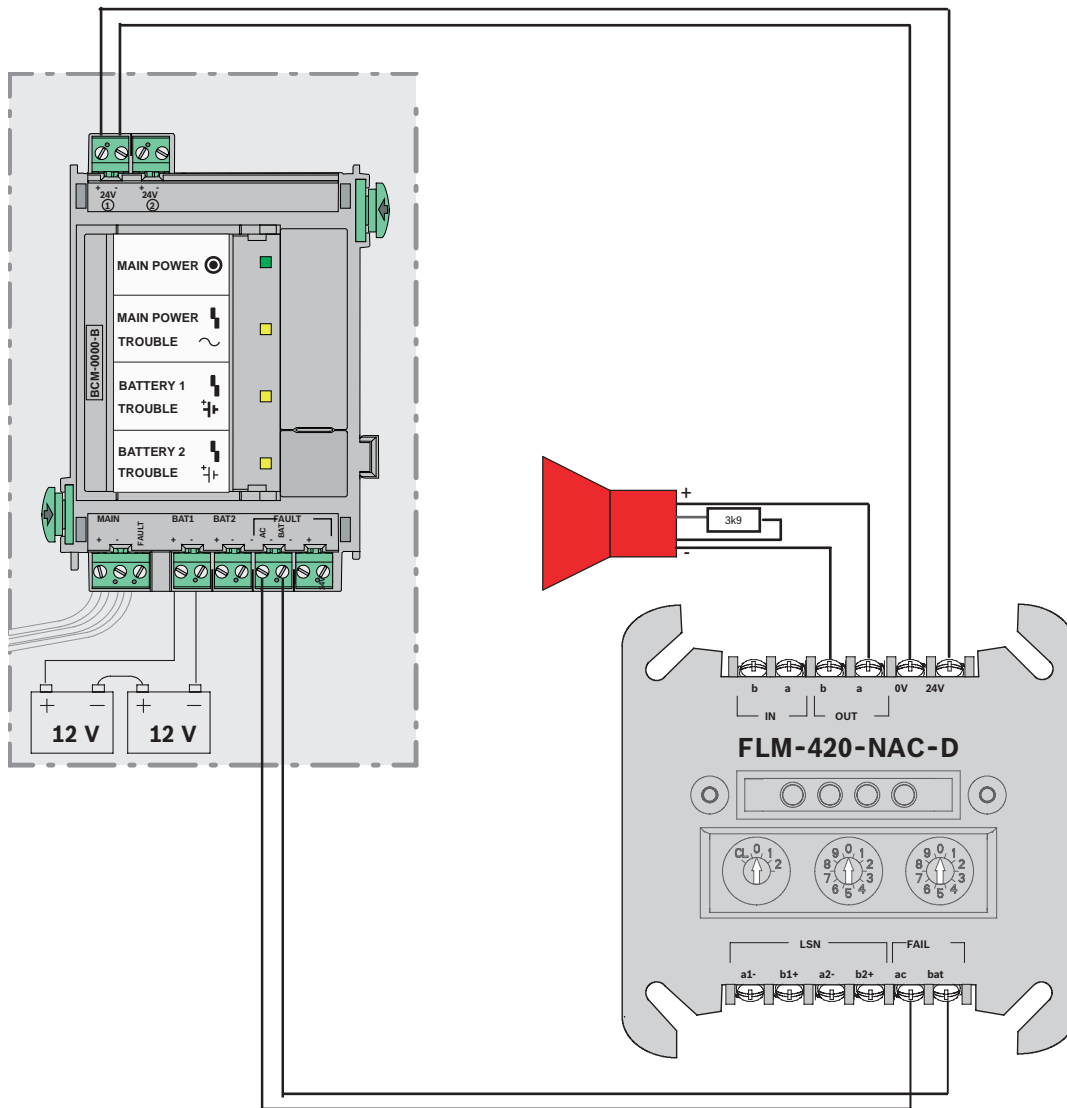
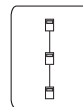


FLM-420-NAC-D





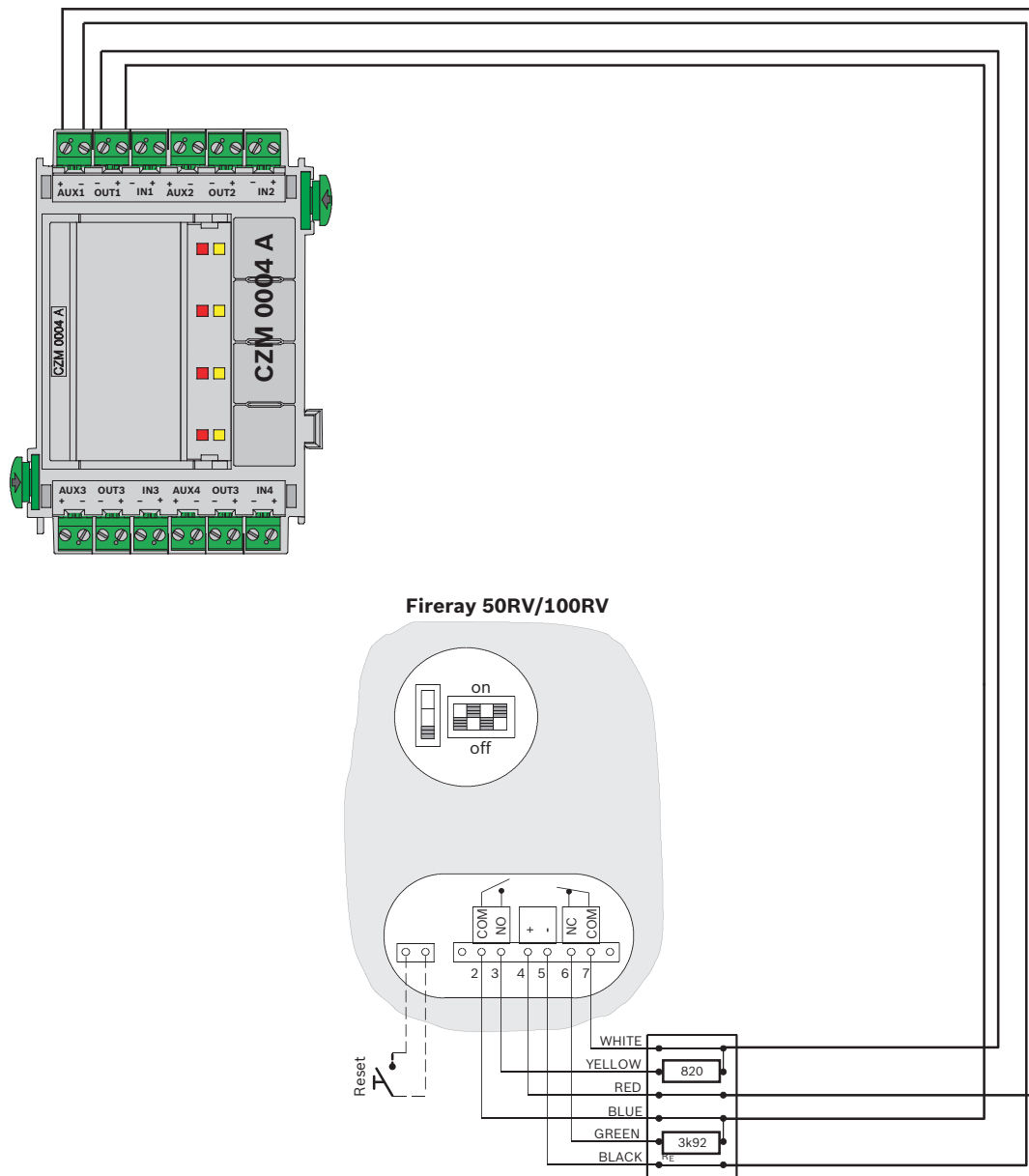
**FLM-420-NAC-D**



### 2.4.2 CZM 0004 A



**Fireray 50RV**  
**Fireray 100RV**



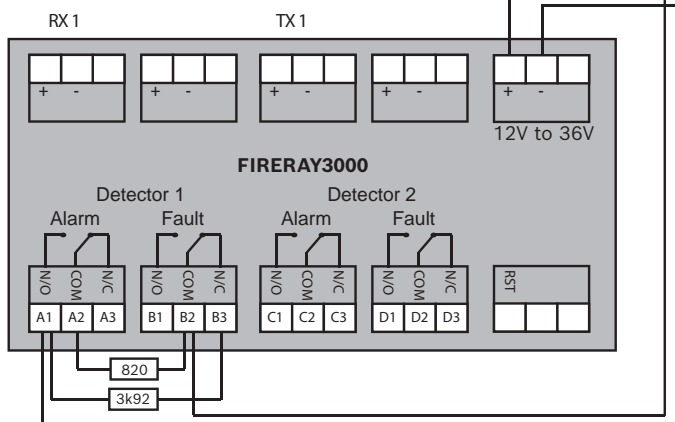
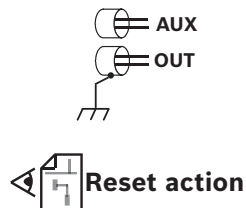
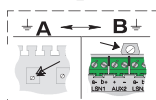
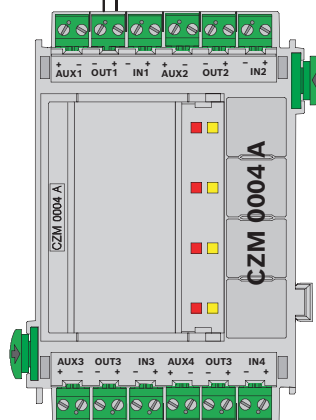


**FIRERAY3000**

1 x



BCM-0000-B  
LSN 0300 A  
LSN 1500 A

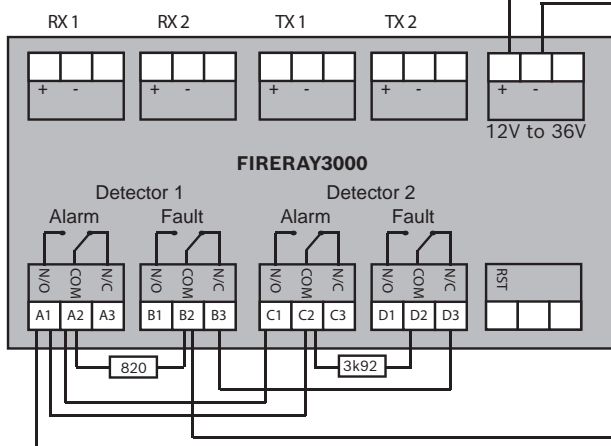
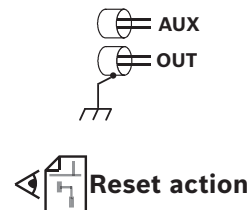
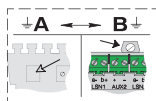
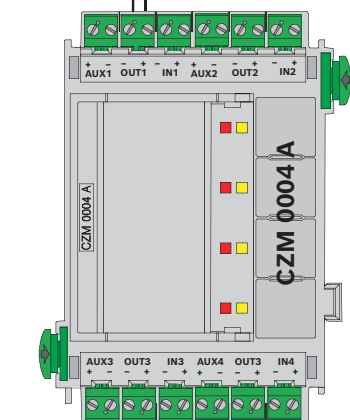




**FIRERAY3000**  
2 x  **OUT1**



BCM-000-B  
LSN 0300 A  
LSN 1500 A

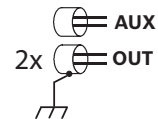
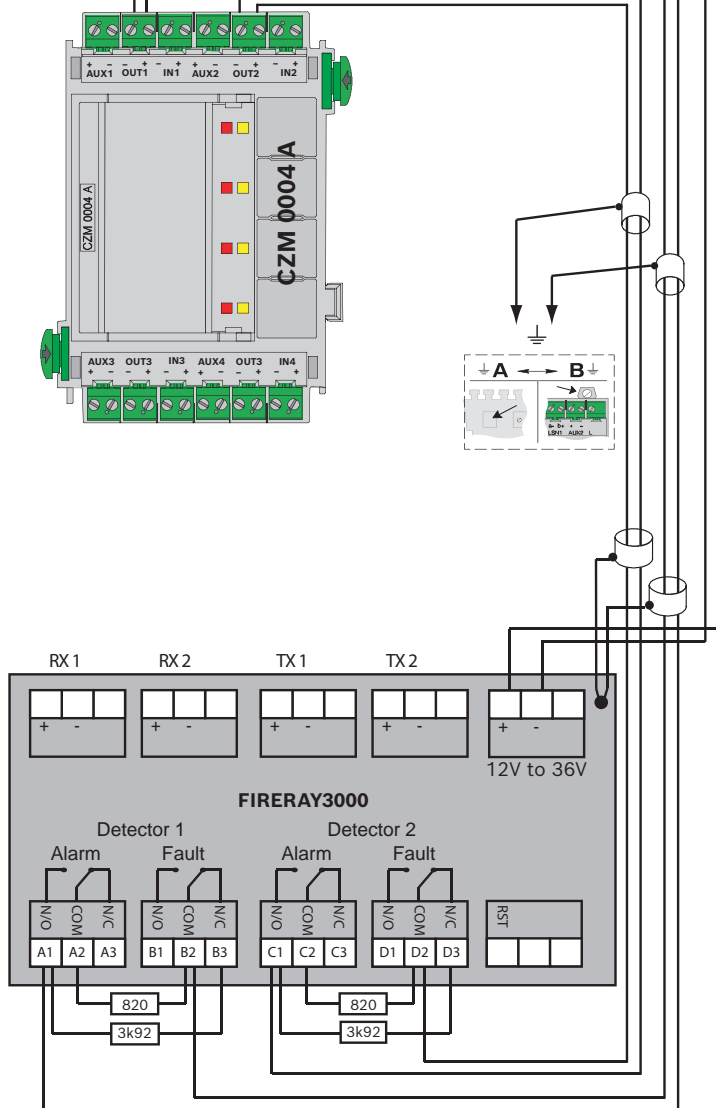




**FIRERAY3000**  
2 x **OUT1+2**



BCM-0000-B  
LSN 0300 A  
LSN 1500 A



**Reset action**



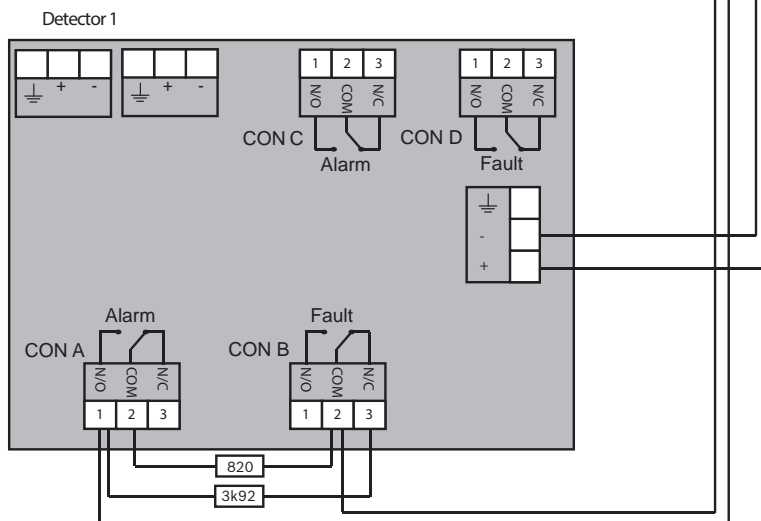
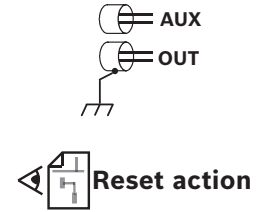
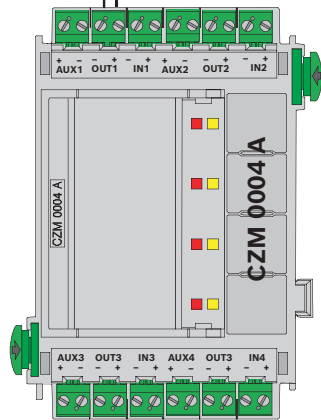


**FIRERAY5000**

1 x



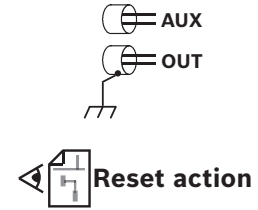
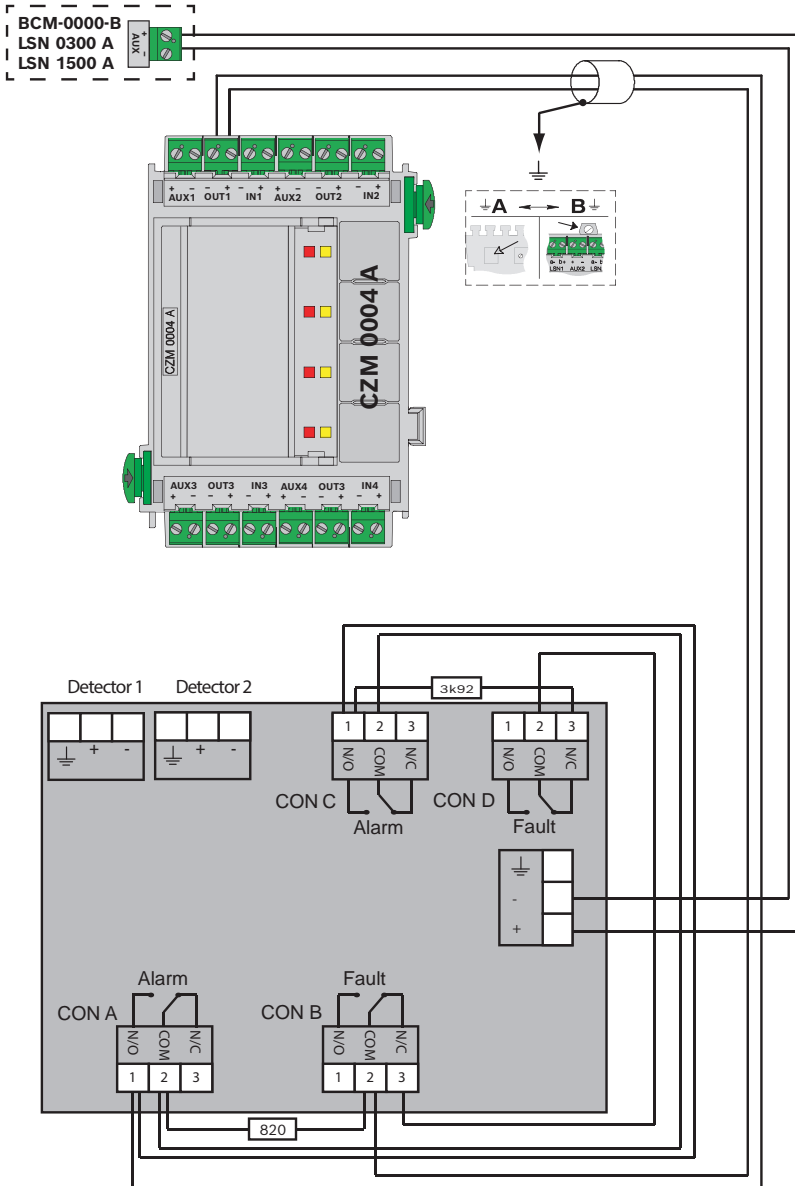
BCM-0000-B  
LSN 0300 A  
LSN 1500 A

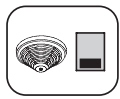




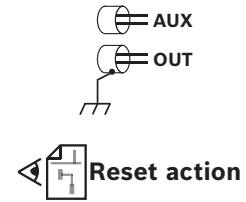
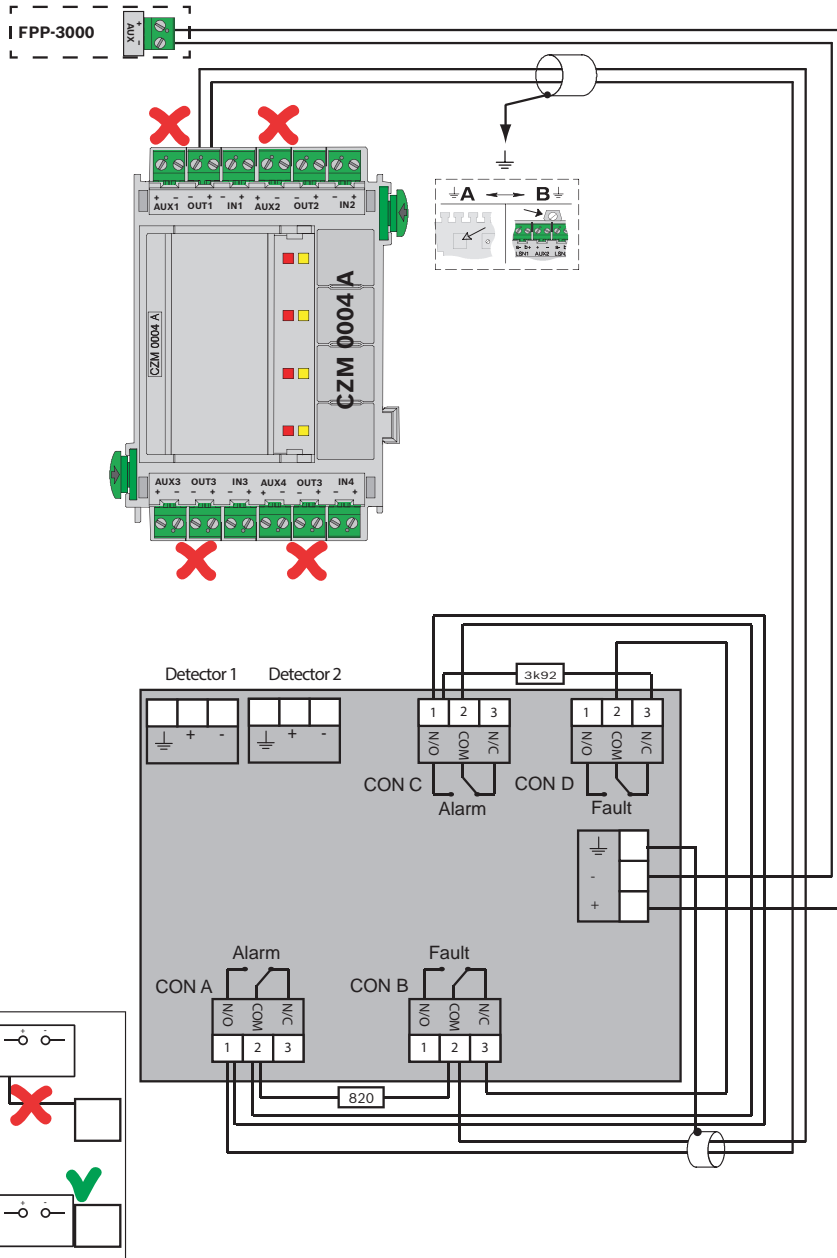
**FIRERAY5000**

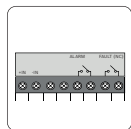
**2 x OUT1**



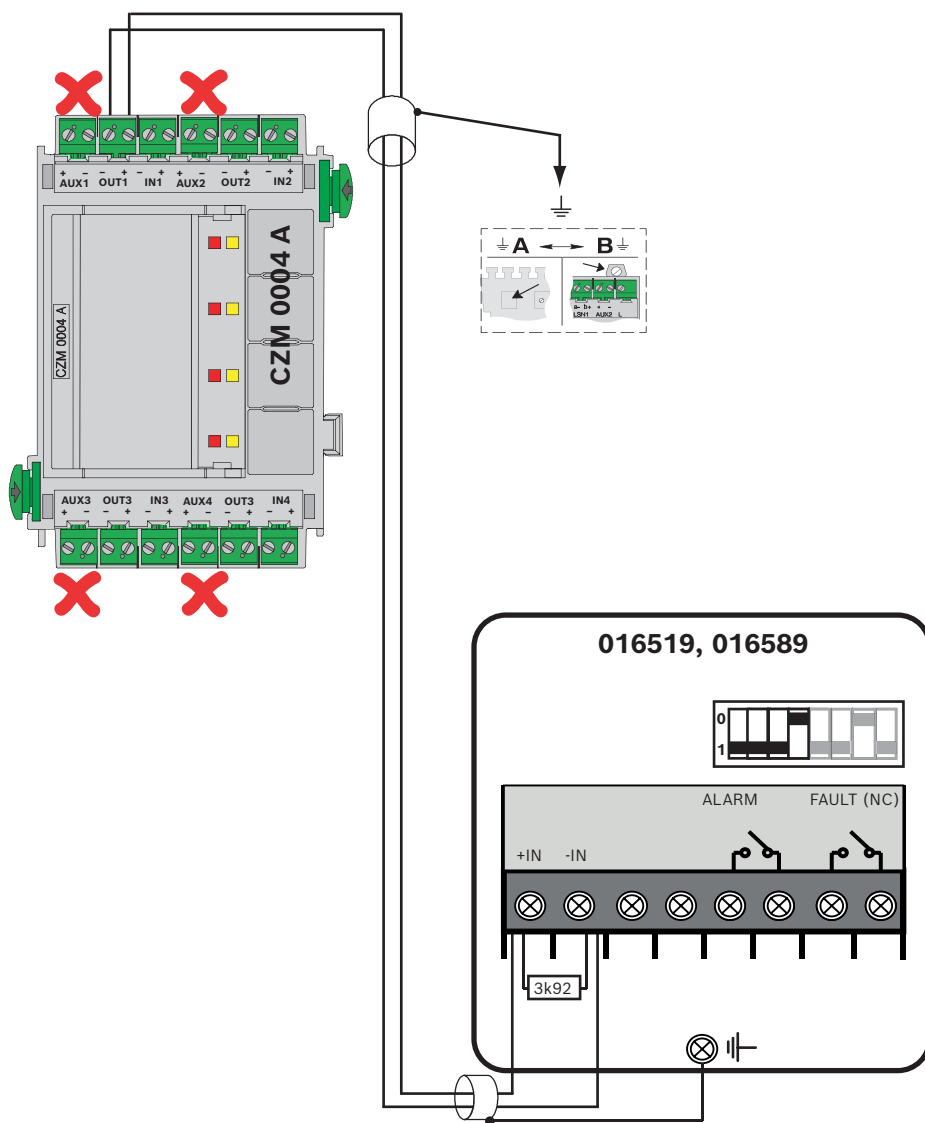
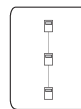


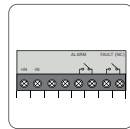
**FIRERAY5000**  
2 x  **OUT1**



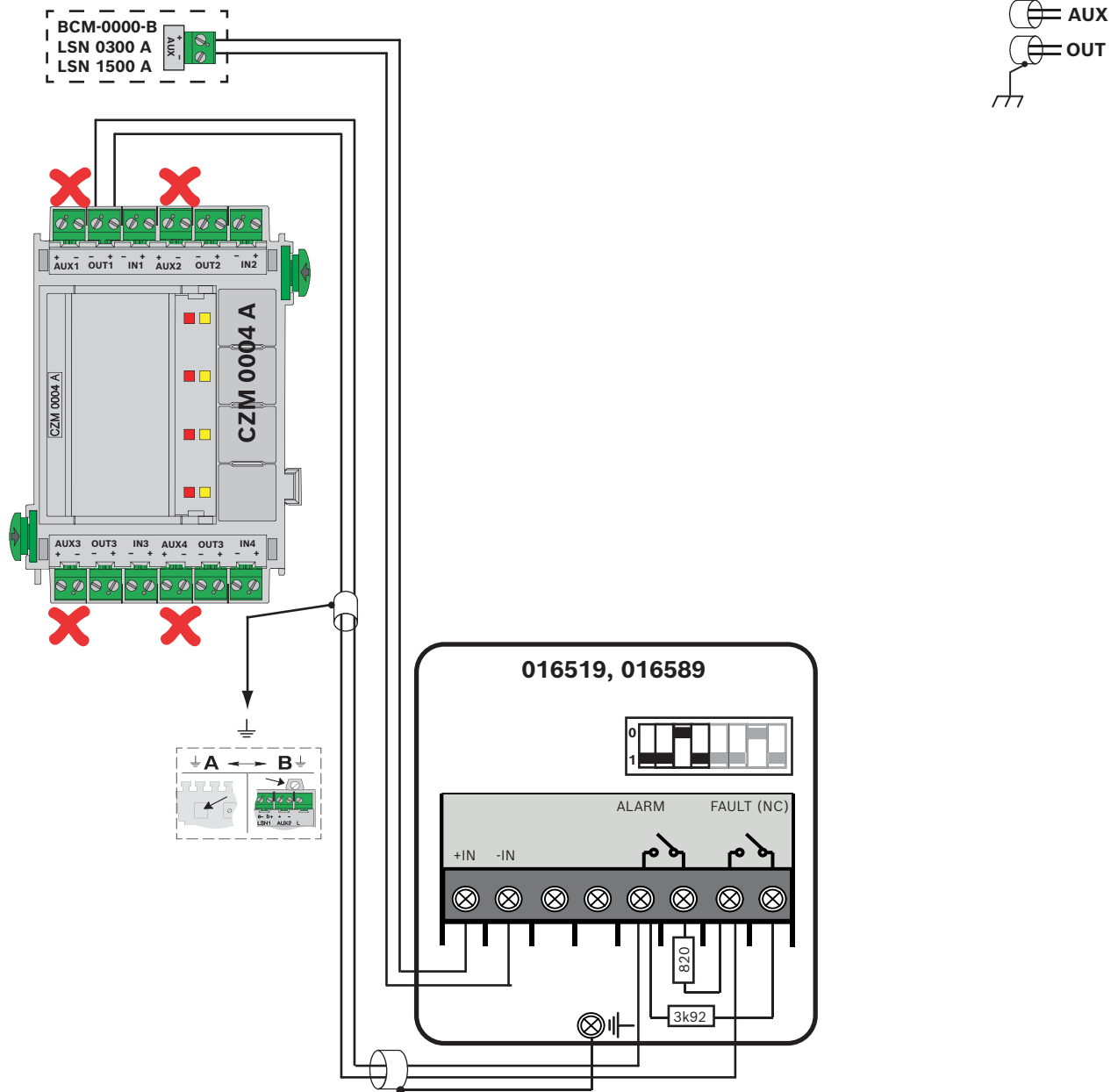
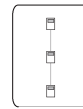


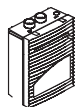
**016519, 016589  
IR3 Flame Detector**



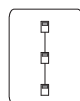


**016519, 016589  
IR3 Flame Detector**

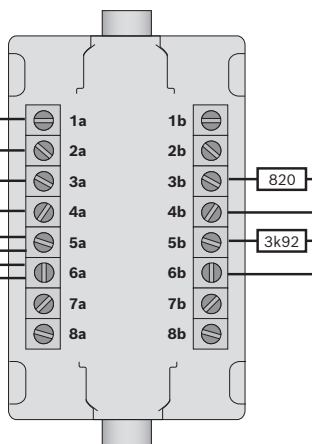
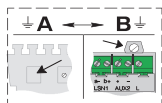
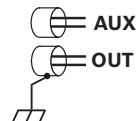
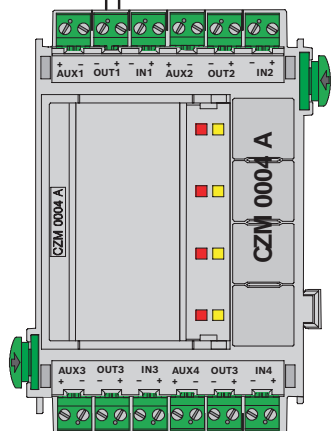


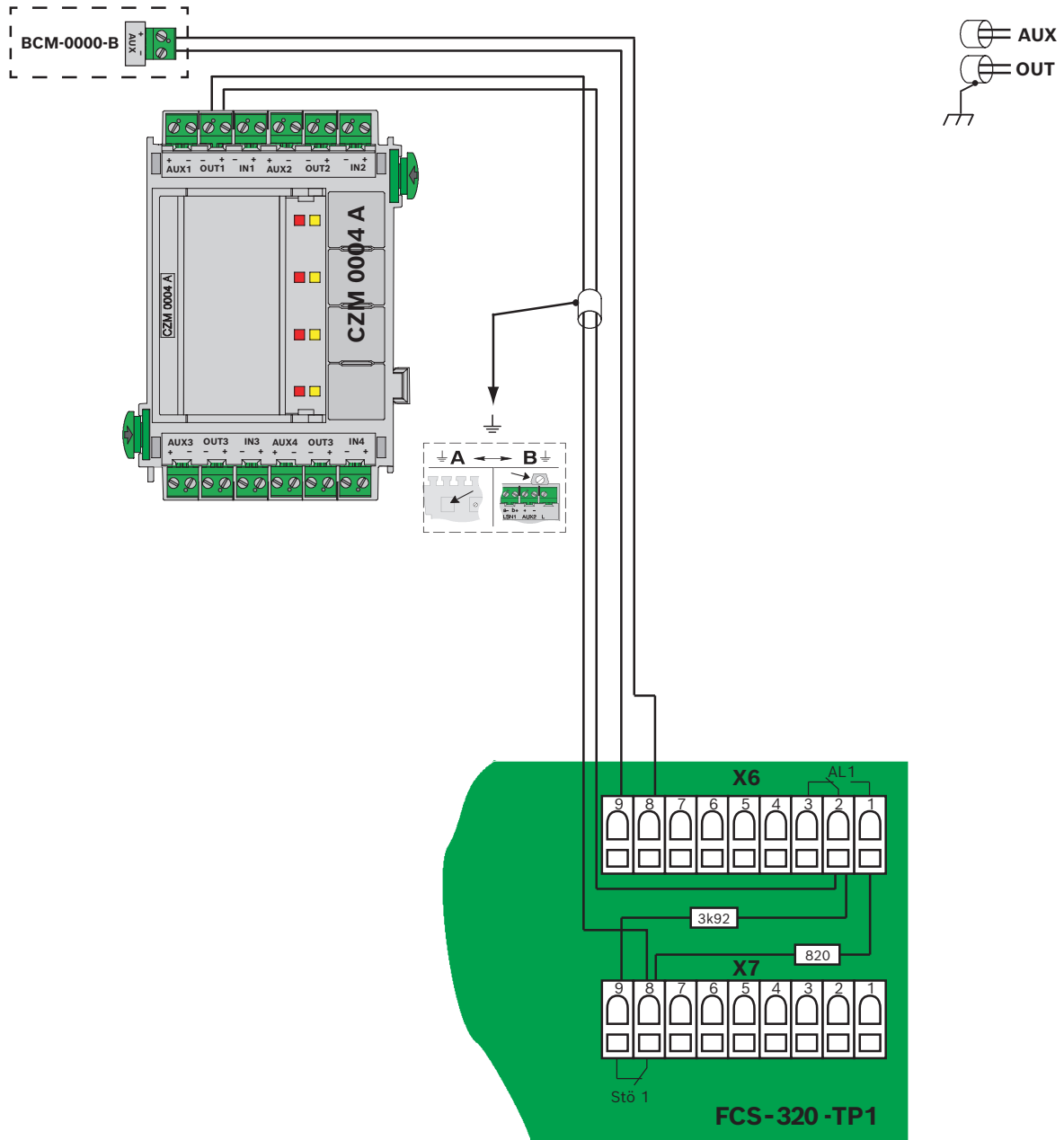
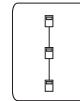
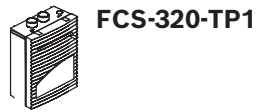


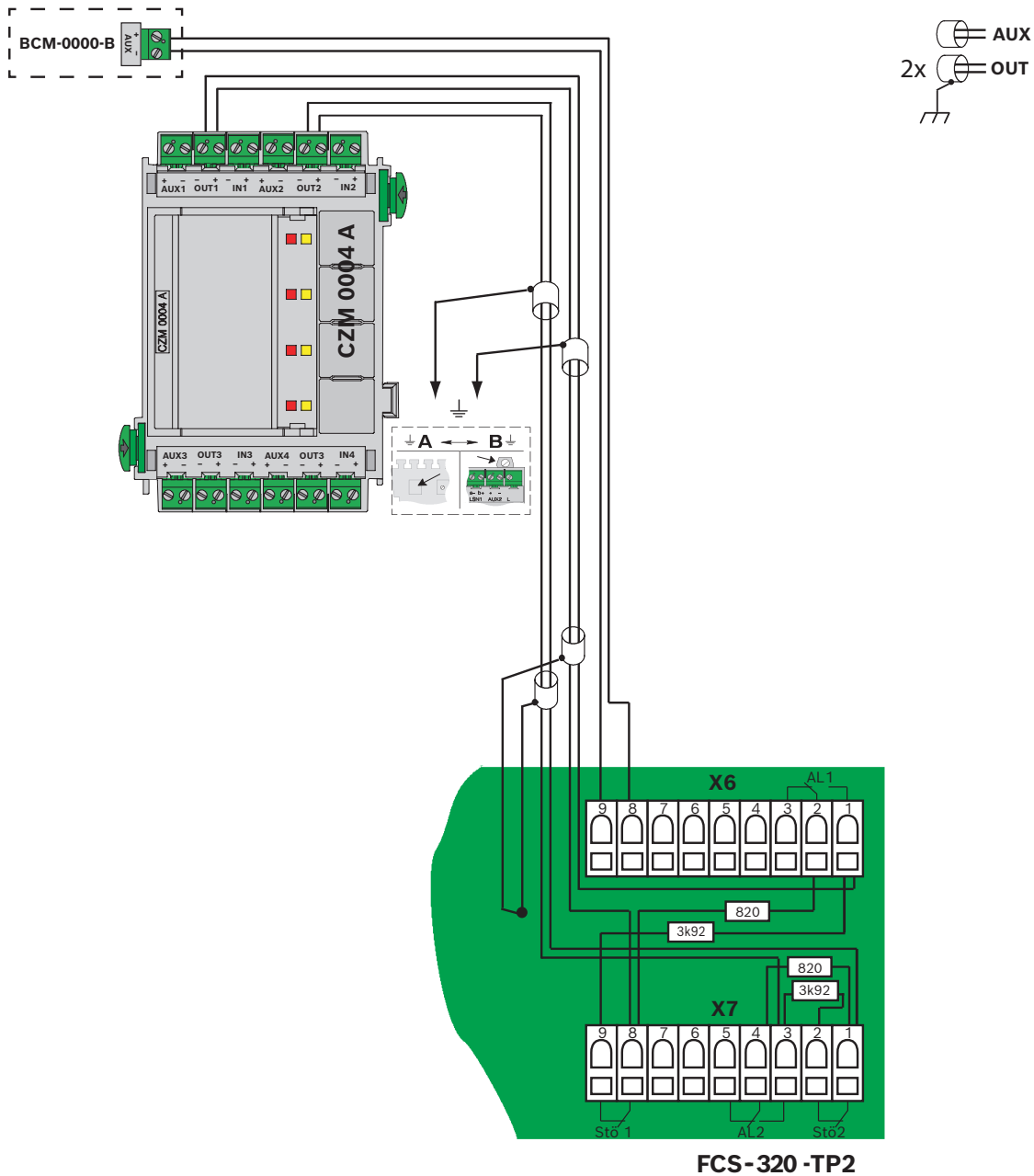
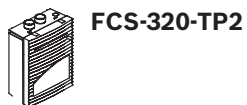
FCS-320-TM Series



BCM-0000-B  
LSN 0300 A  
LSN 1500 A



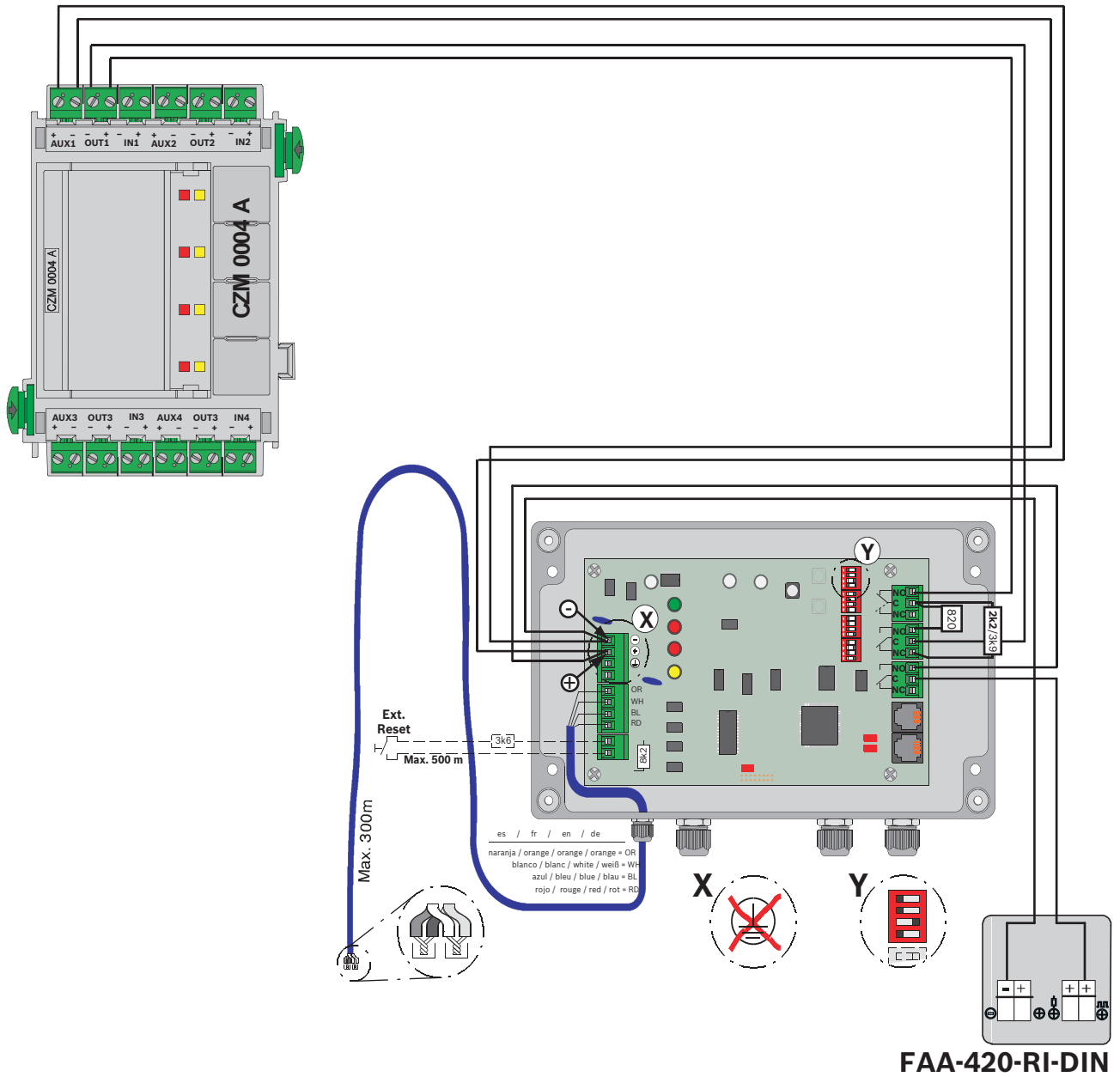






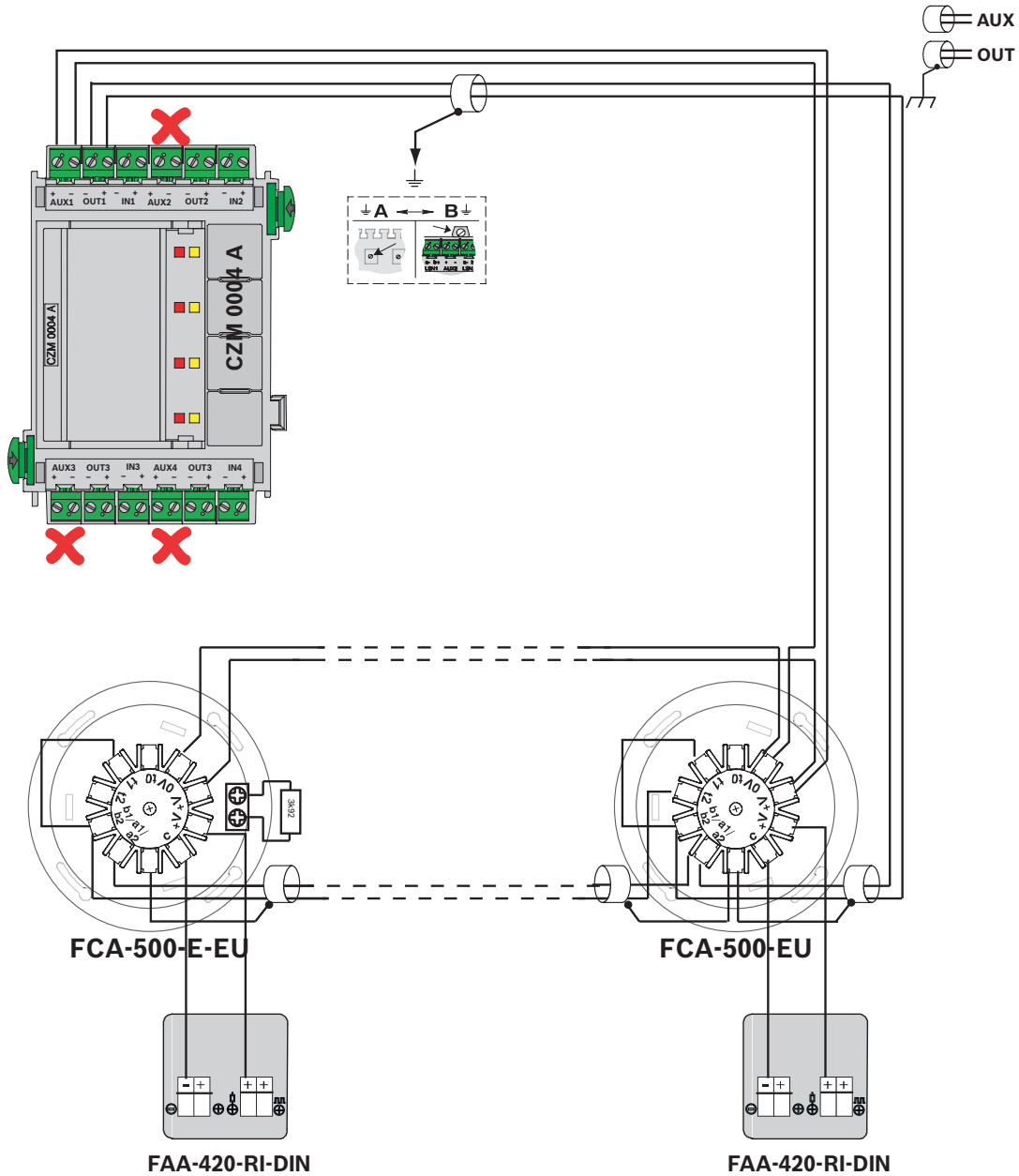


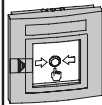
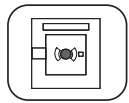
FCS-LWM-1



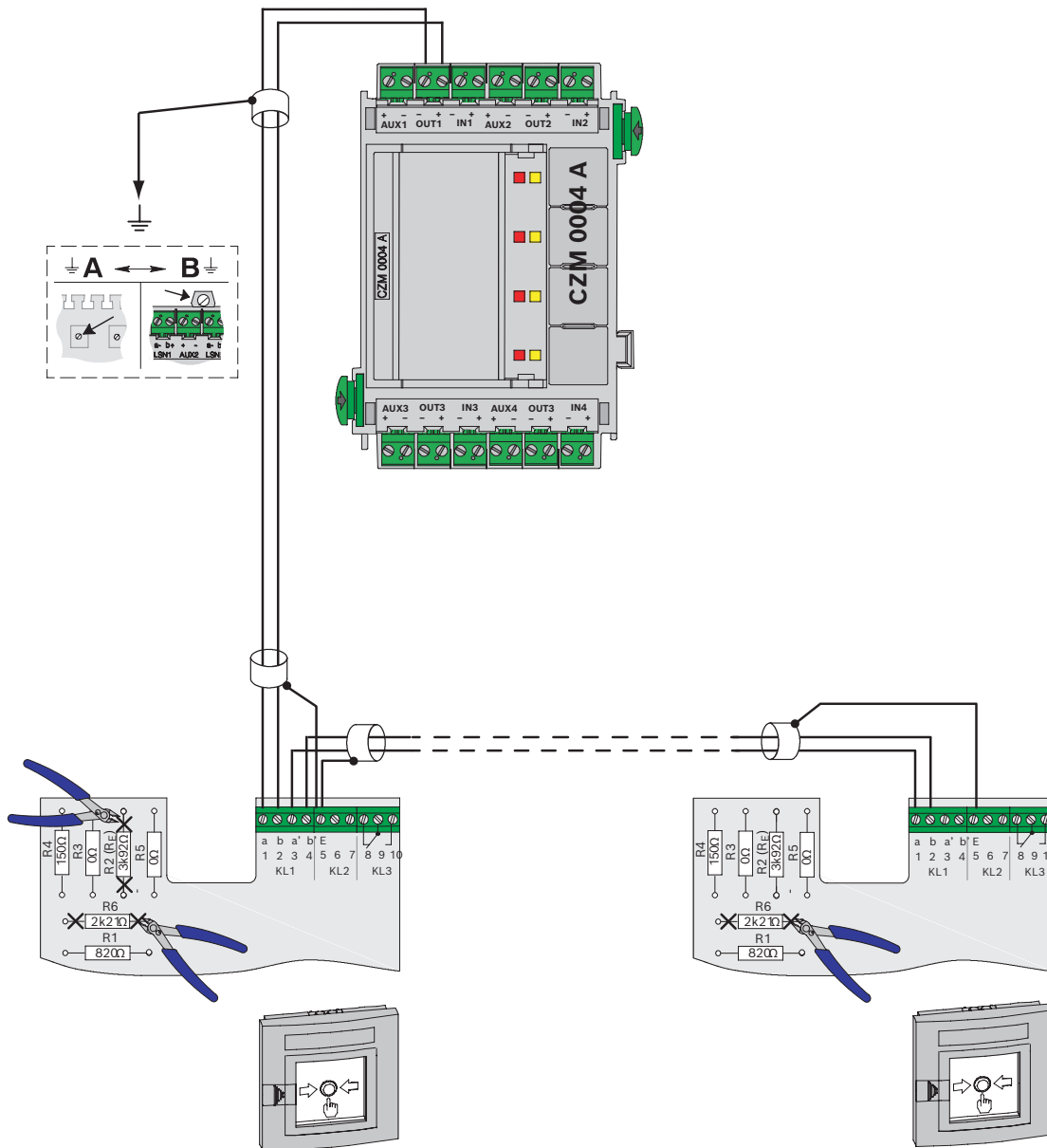
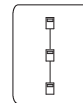


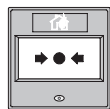
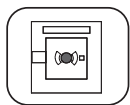
FCA-500-EU  
 FCP-O 500  
 FCP-O 500-P  
 FCP-OC 500  
 FCP-OC 500-P



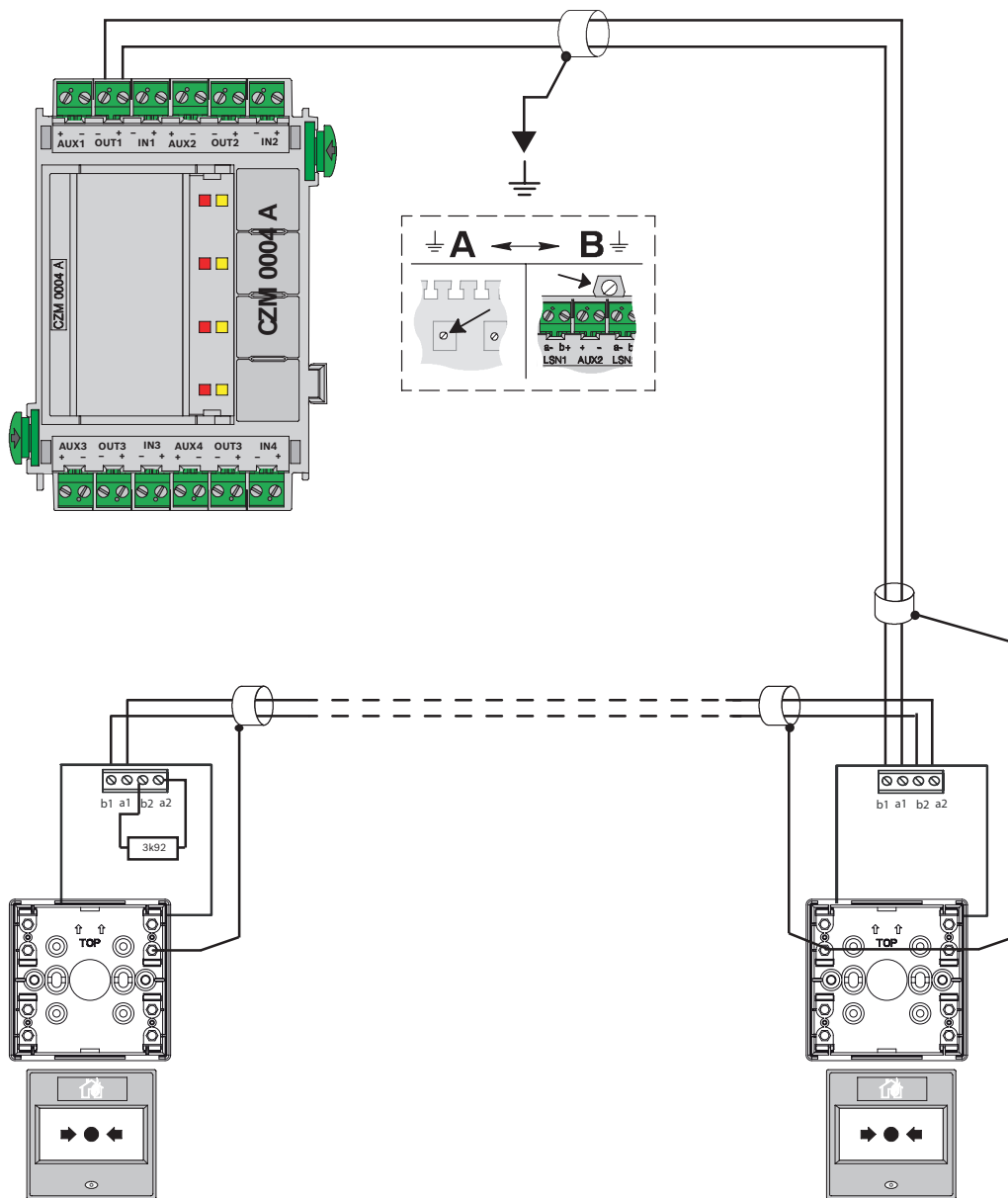
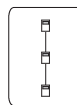


**FMC-120-DKM-G-R**  
**FMC-120-DKM-H-R**  
**FMC-120-DKM-G-B**  
**FMC-120-DKM-H-B**  
**FMC-120-DKM-G-Y**





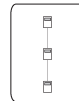
FMC-300RW-GSGBU  
 FMC-300RW-GSRBU  
 FMC-300RW-GSGRD  
 FMC-300RW-GSRRD  
 FMC-300RW-GSGYE  
 FMC-300RW-GSRYE



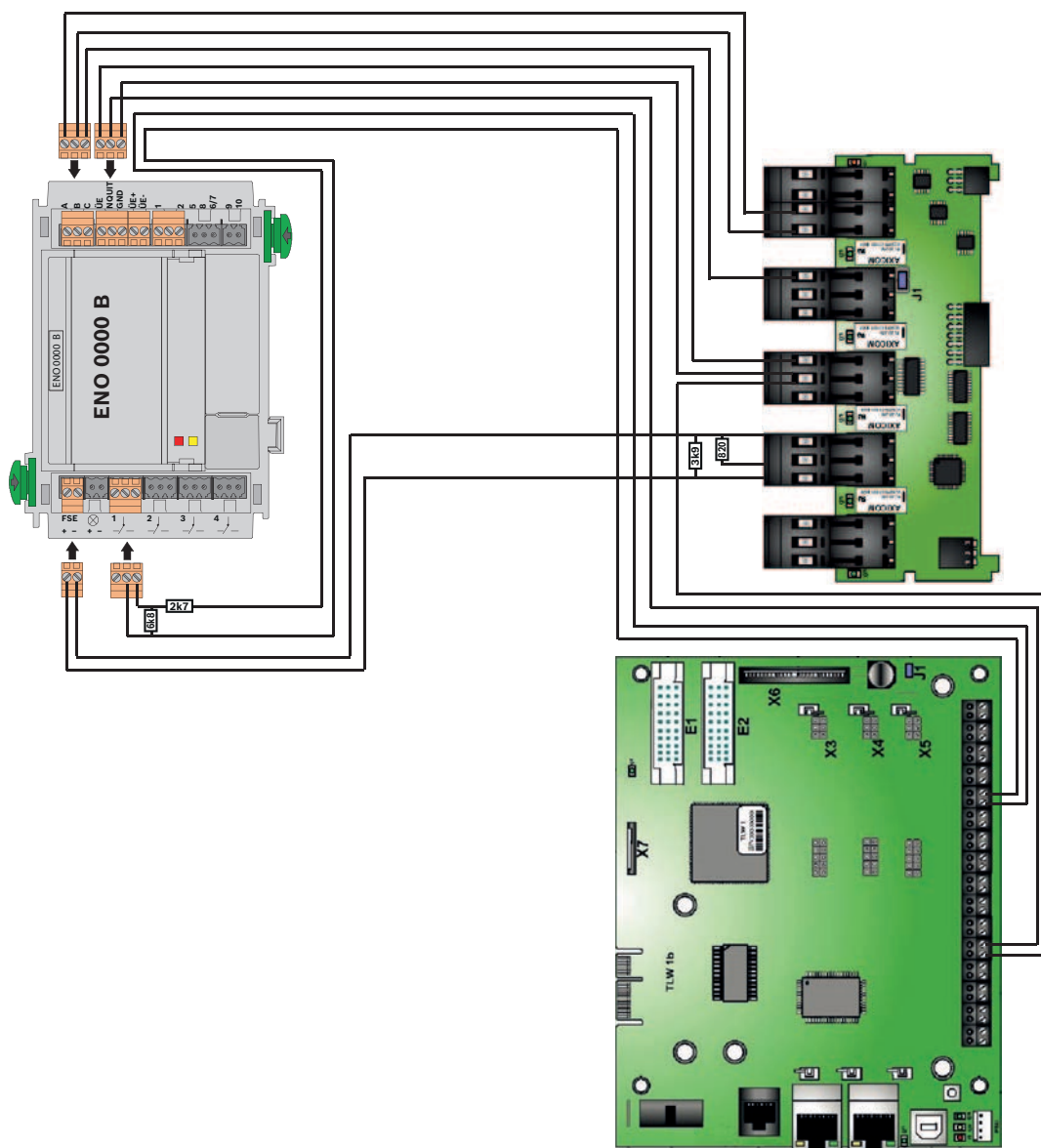
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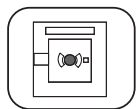


AT5000 IP/GPRS

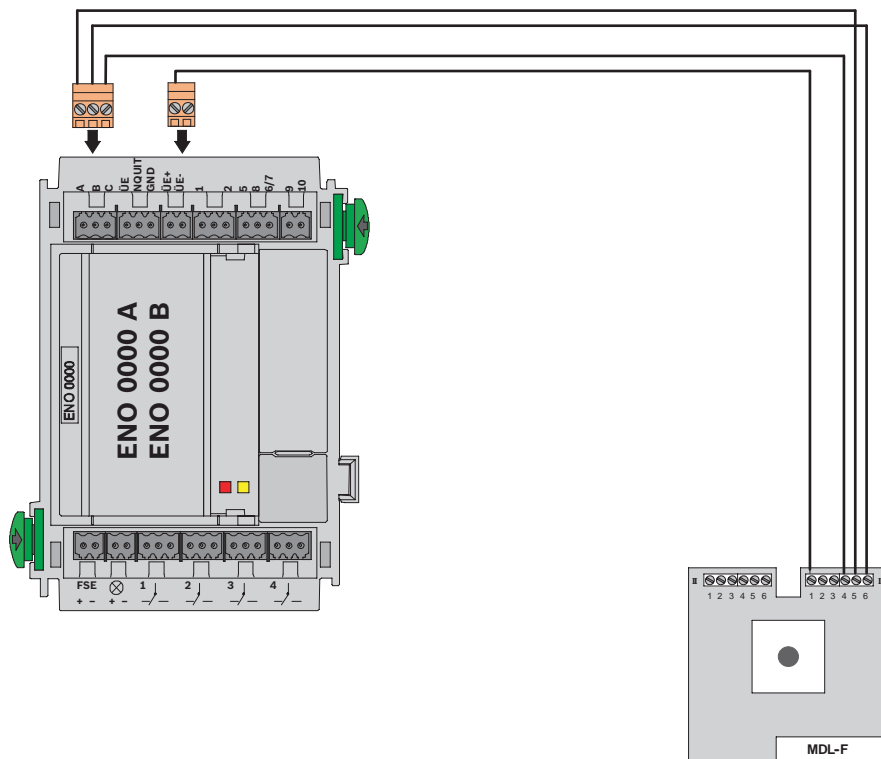


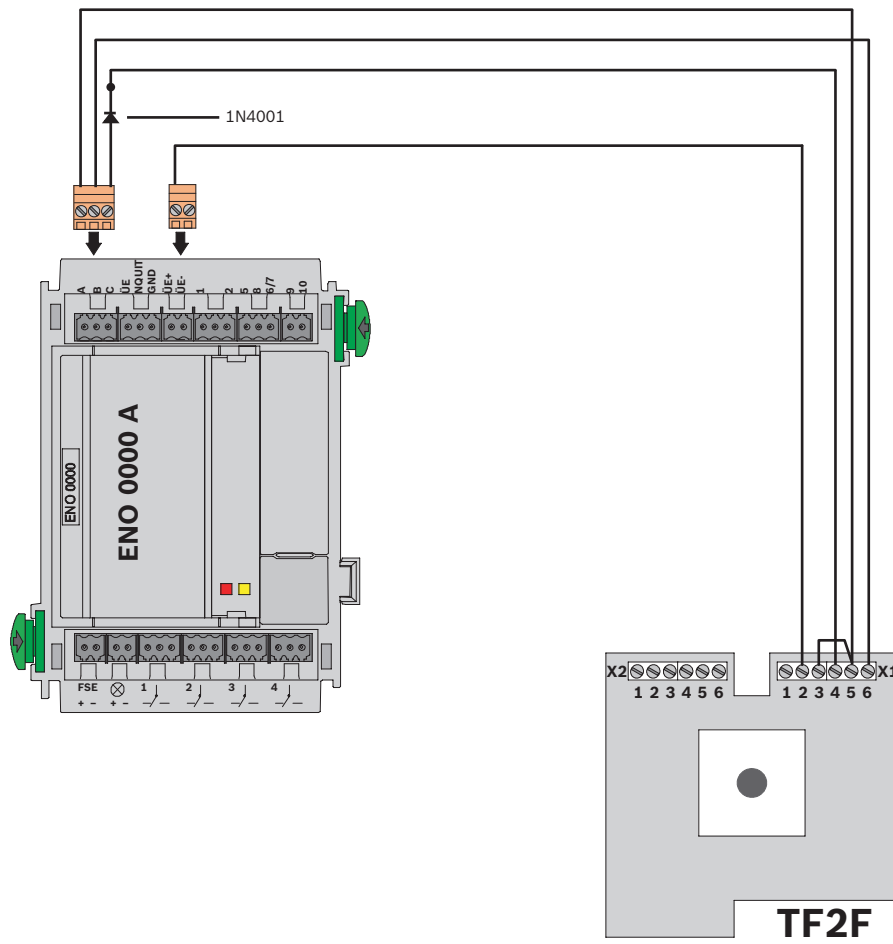
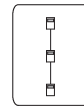
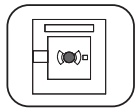
EN 54-2

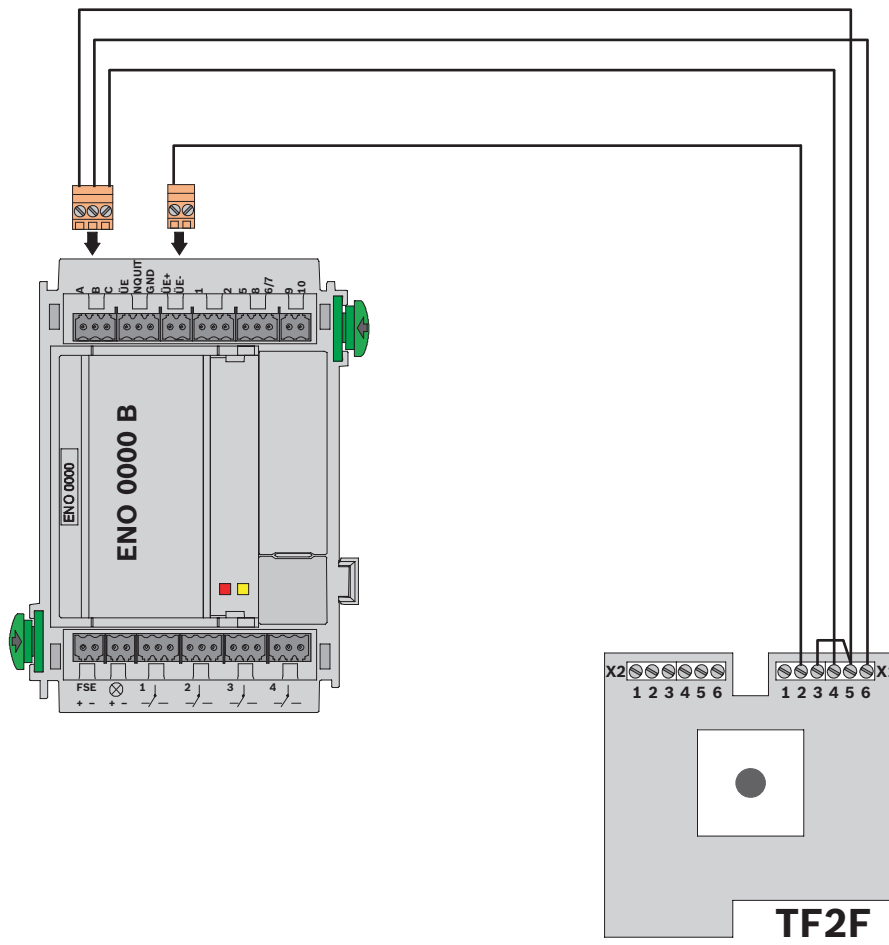
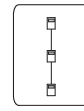
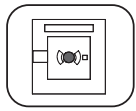




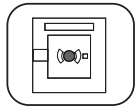
MDL-F



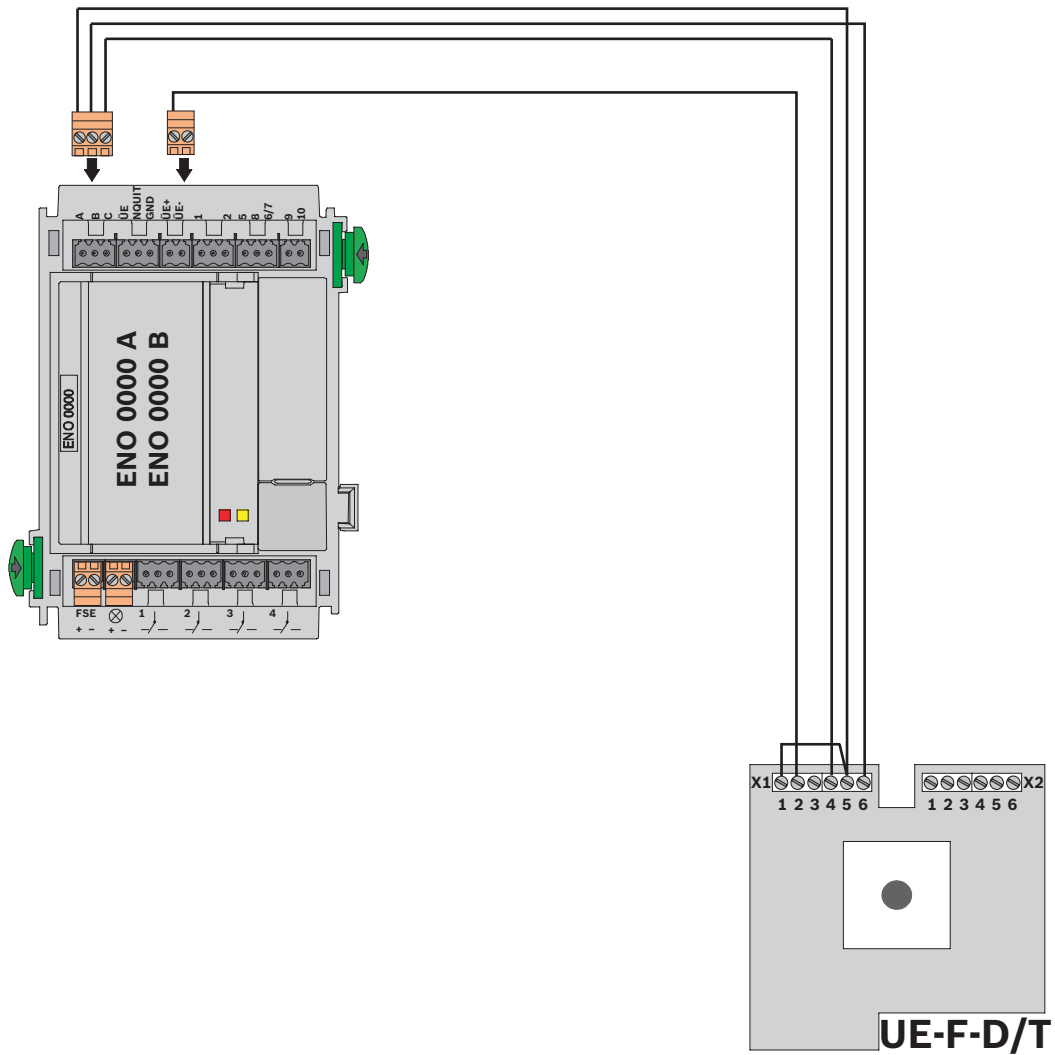


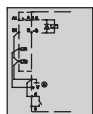




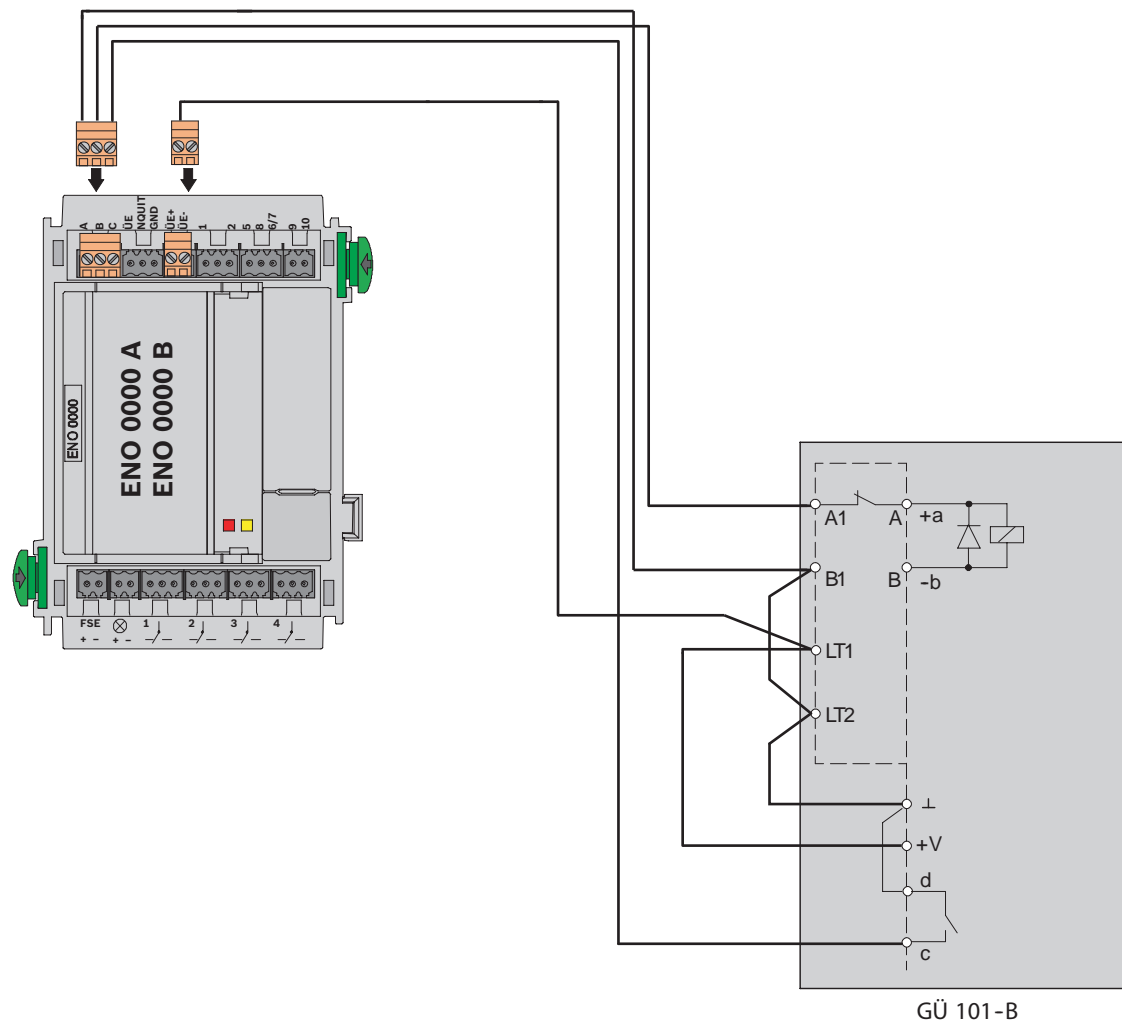
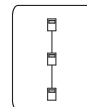


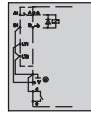
**UE-F-D/T**



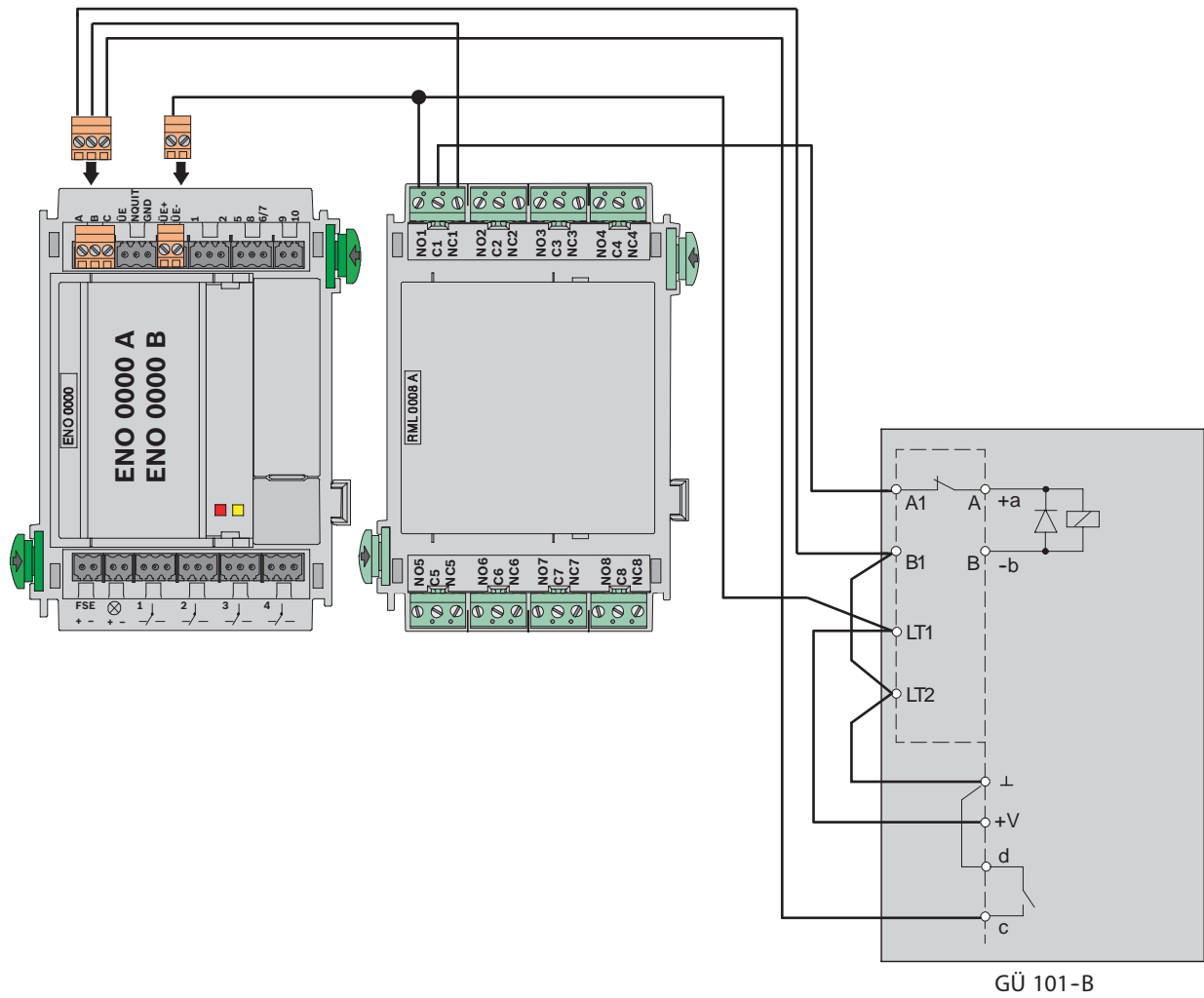
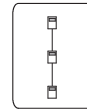


**GÜ 101-B**



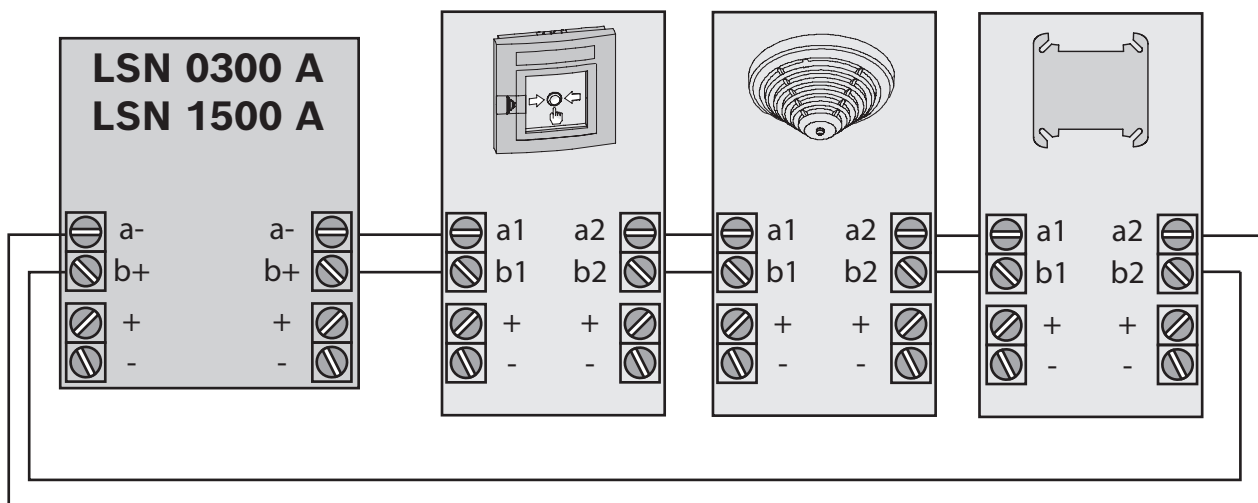
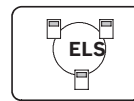


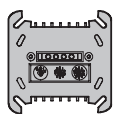
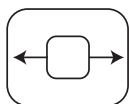
**GÜ 101-B**



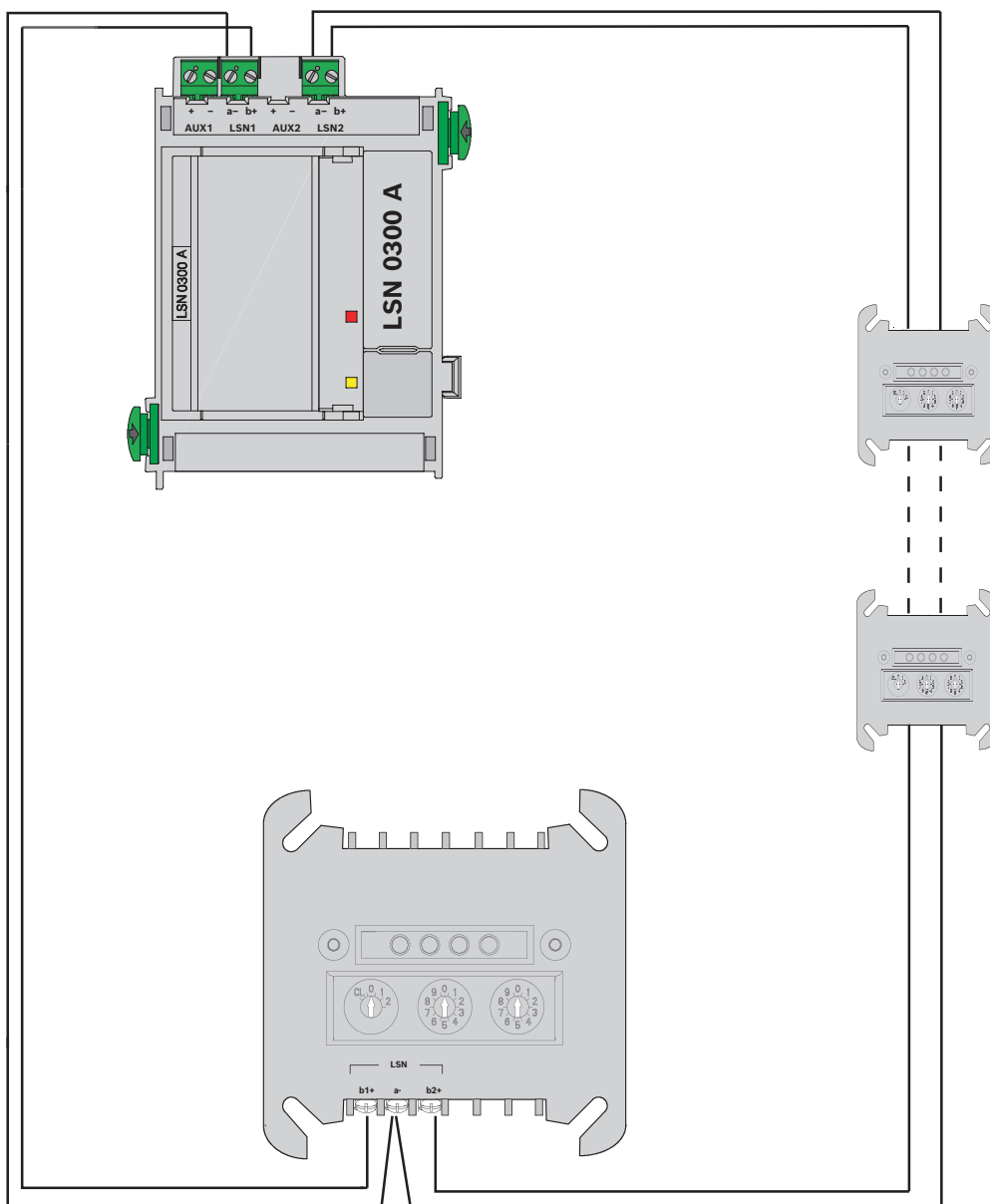
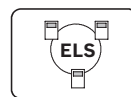
### 2.4.4

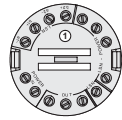
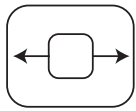
### LSN 0300 A



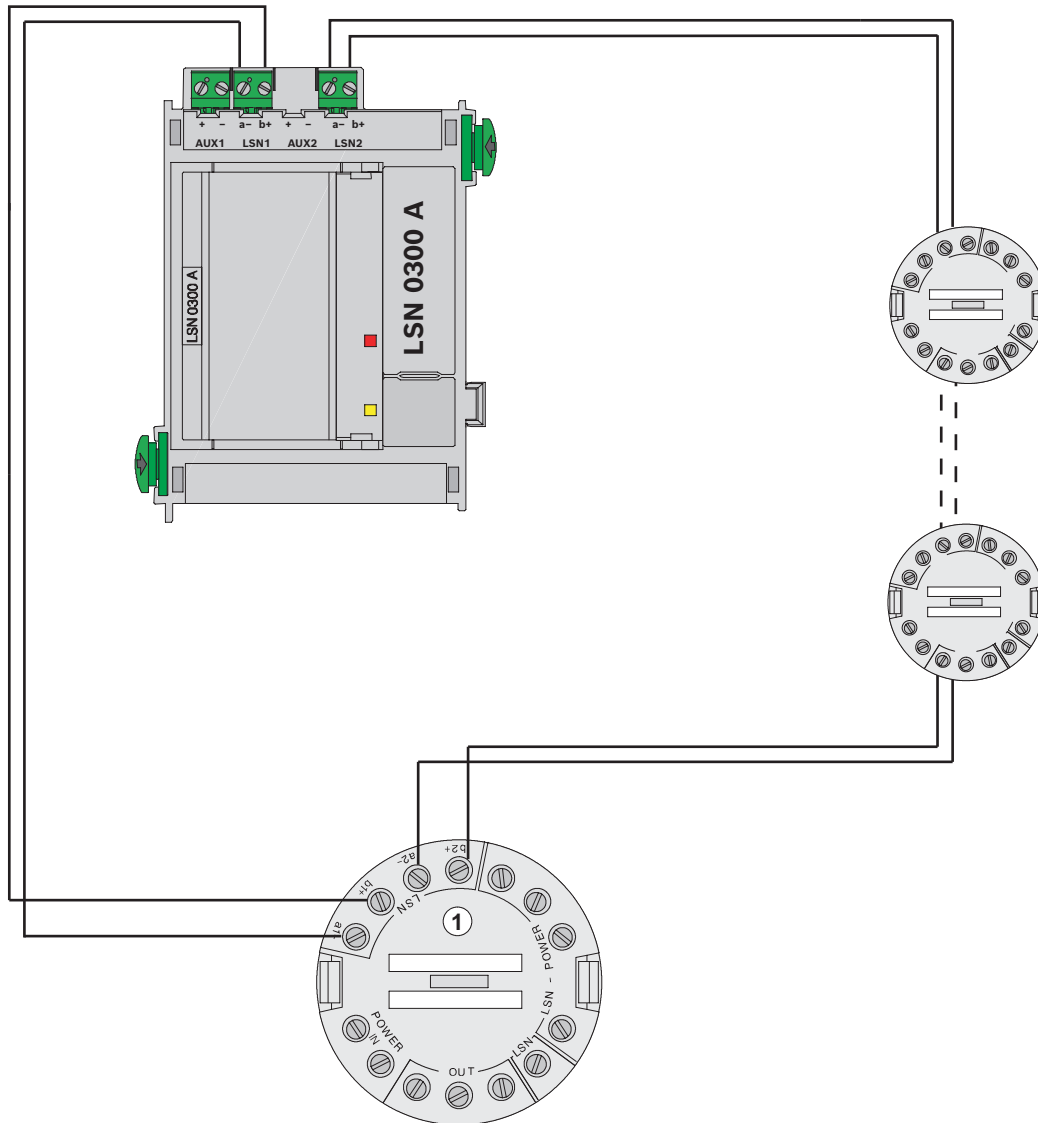
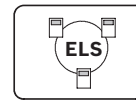


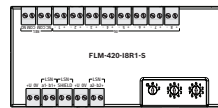
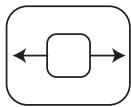
FLM-I 420-S  
 FLM-420-I2-D  
 FLM-420-O1I1-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D



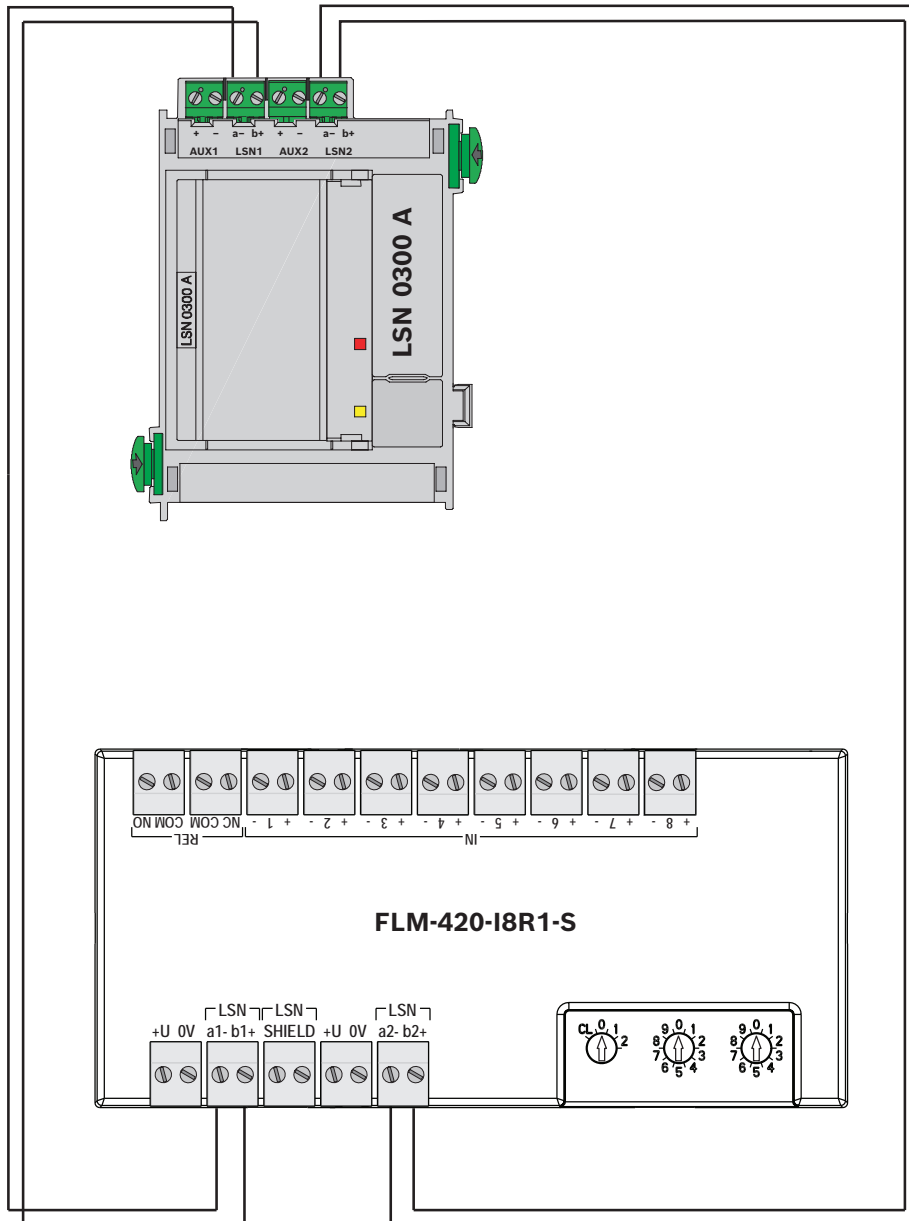
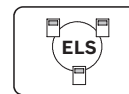


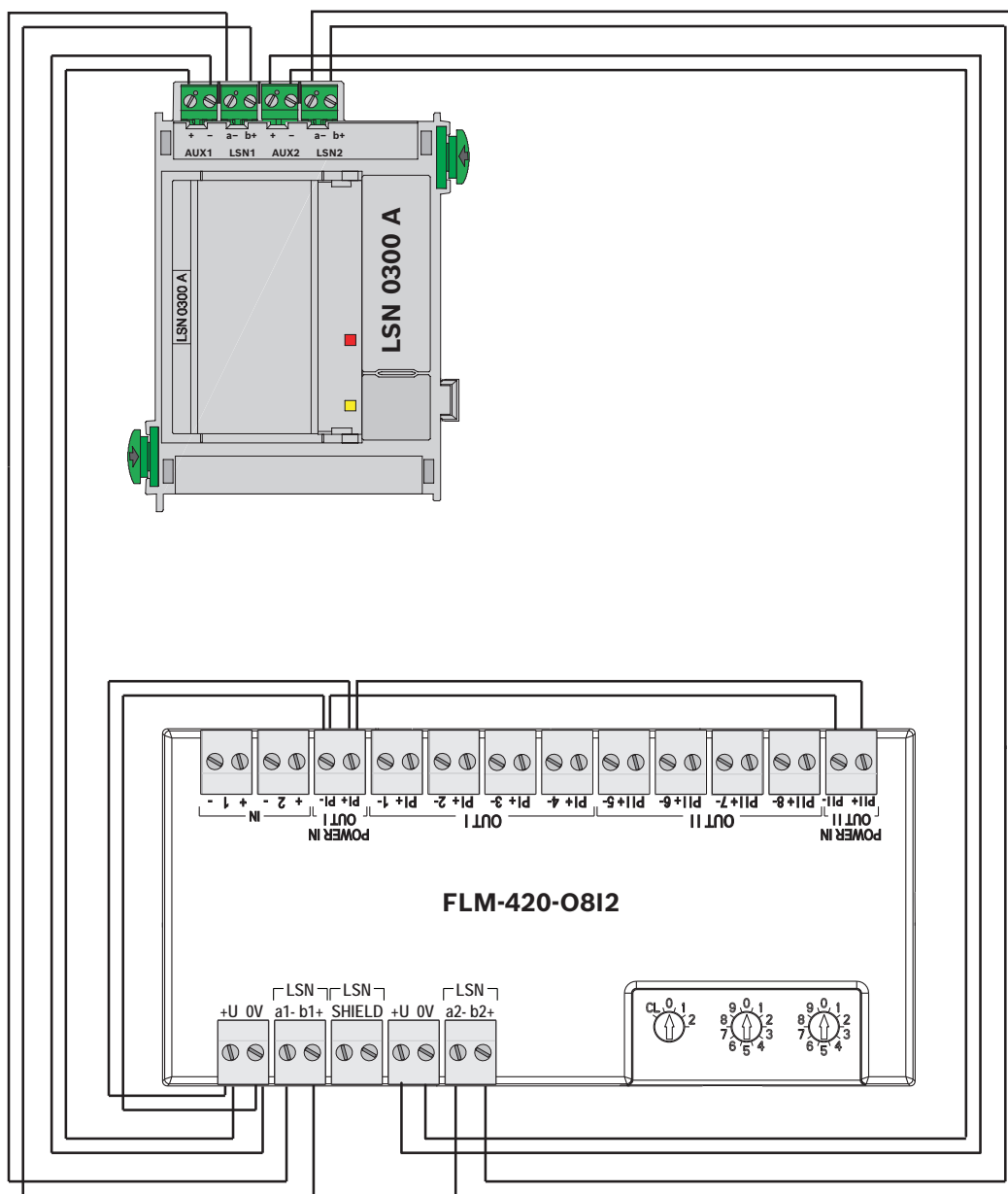
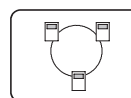
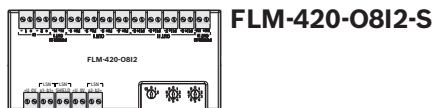
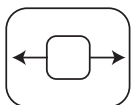
**FLM-420-I2-E/W**  
**FLM-420-RLV1-E**



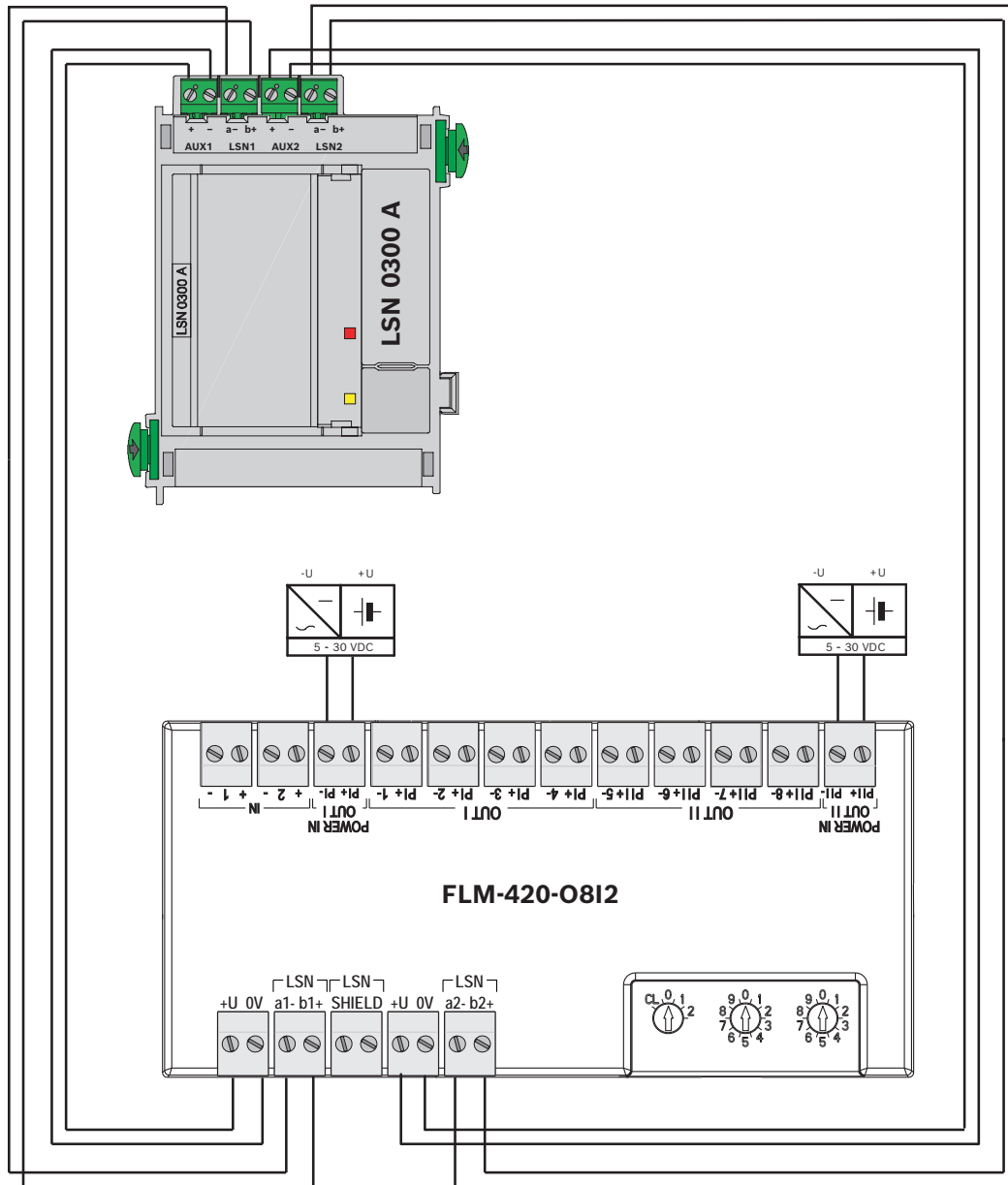
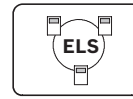
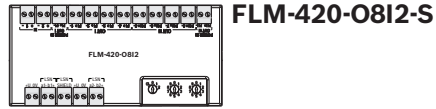
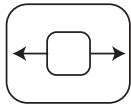


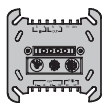
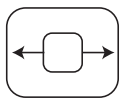
**FLM-420-18R1-S**



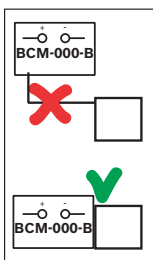
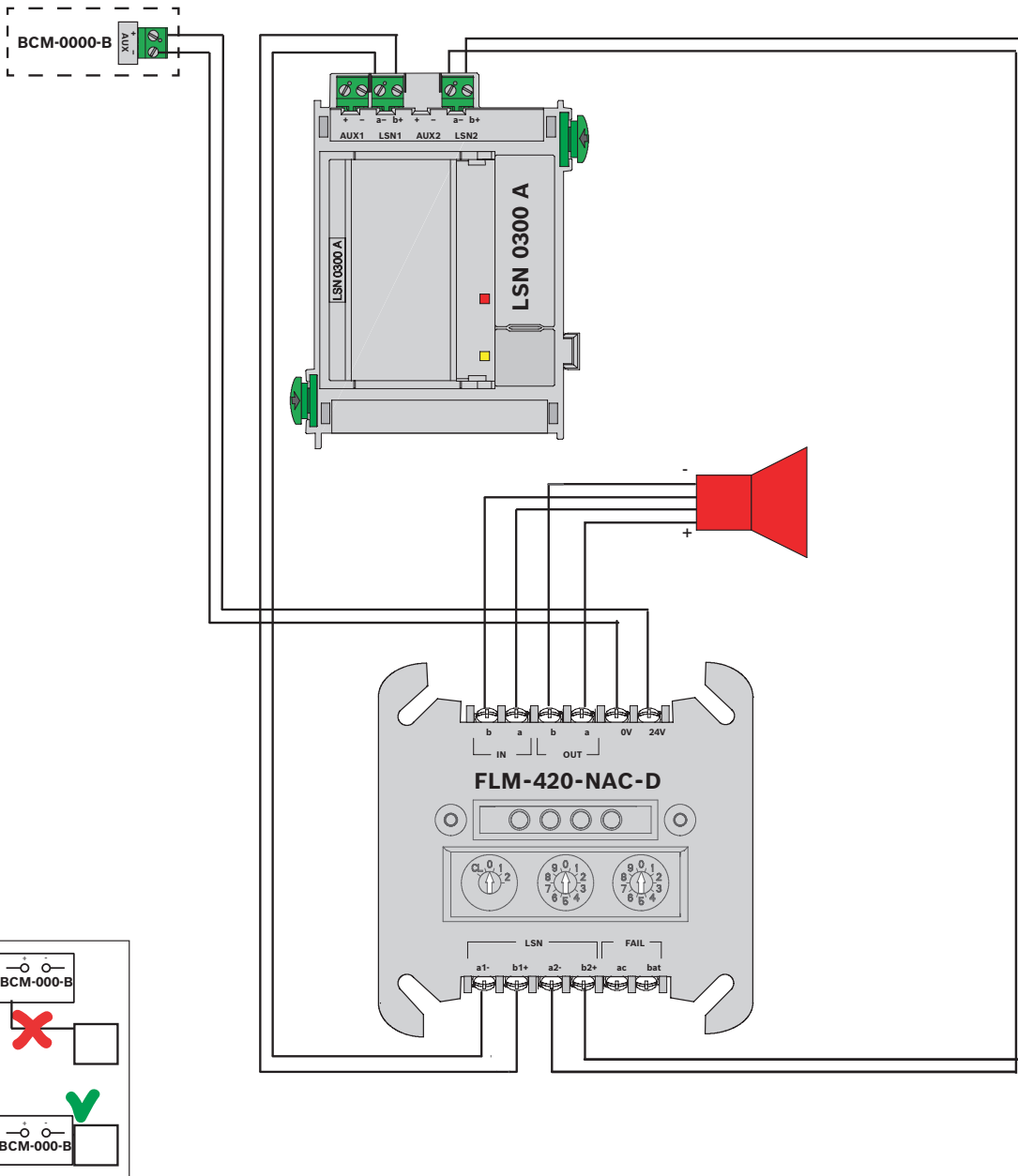
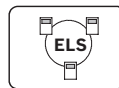


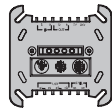
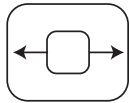




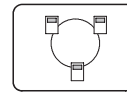


FLM-420-NAC-D/S

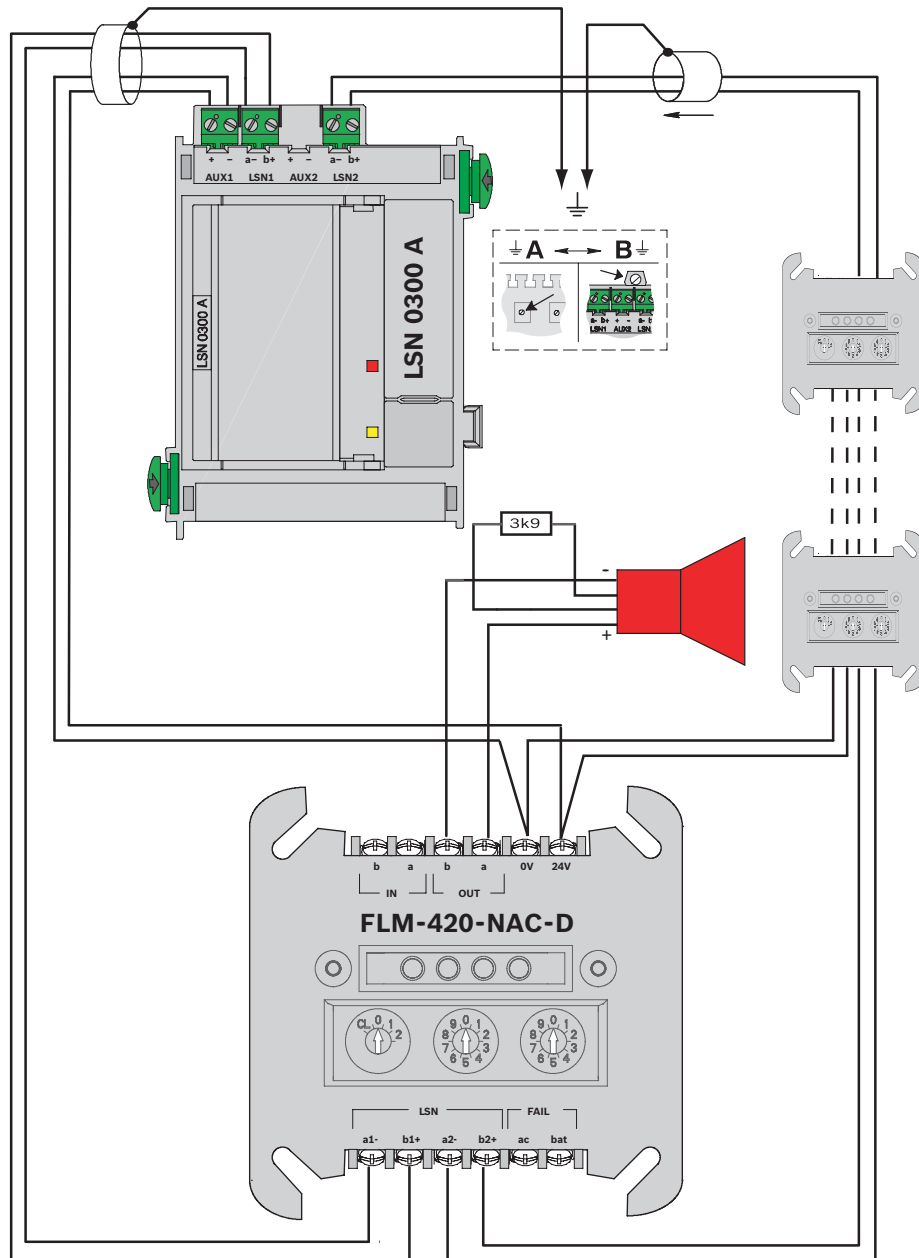


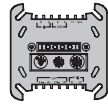
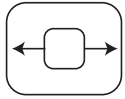


FLM-420-NAC-D/S

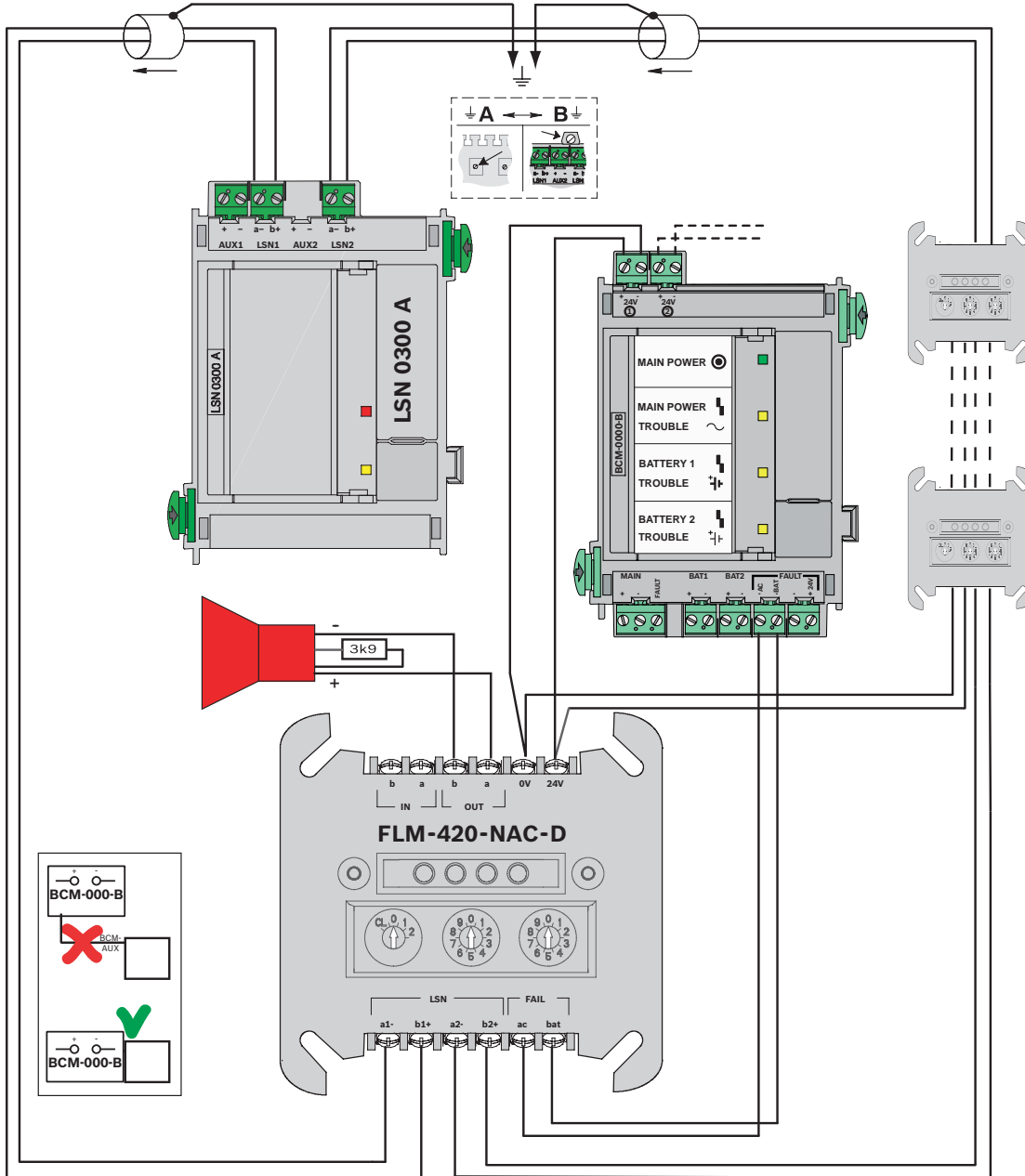
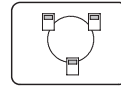


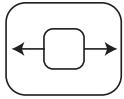
EN 54-2



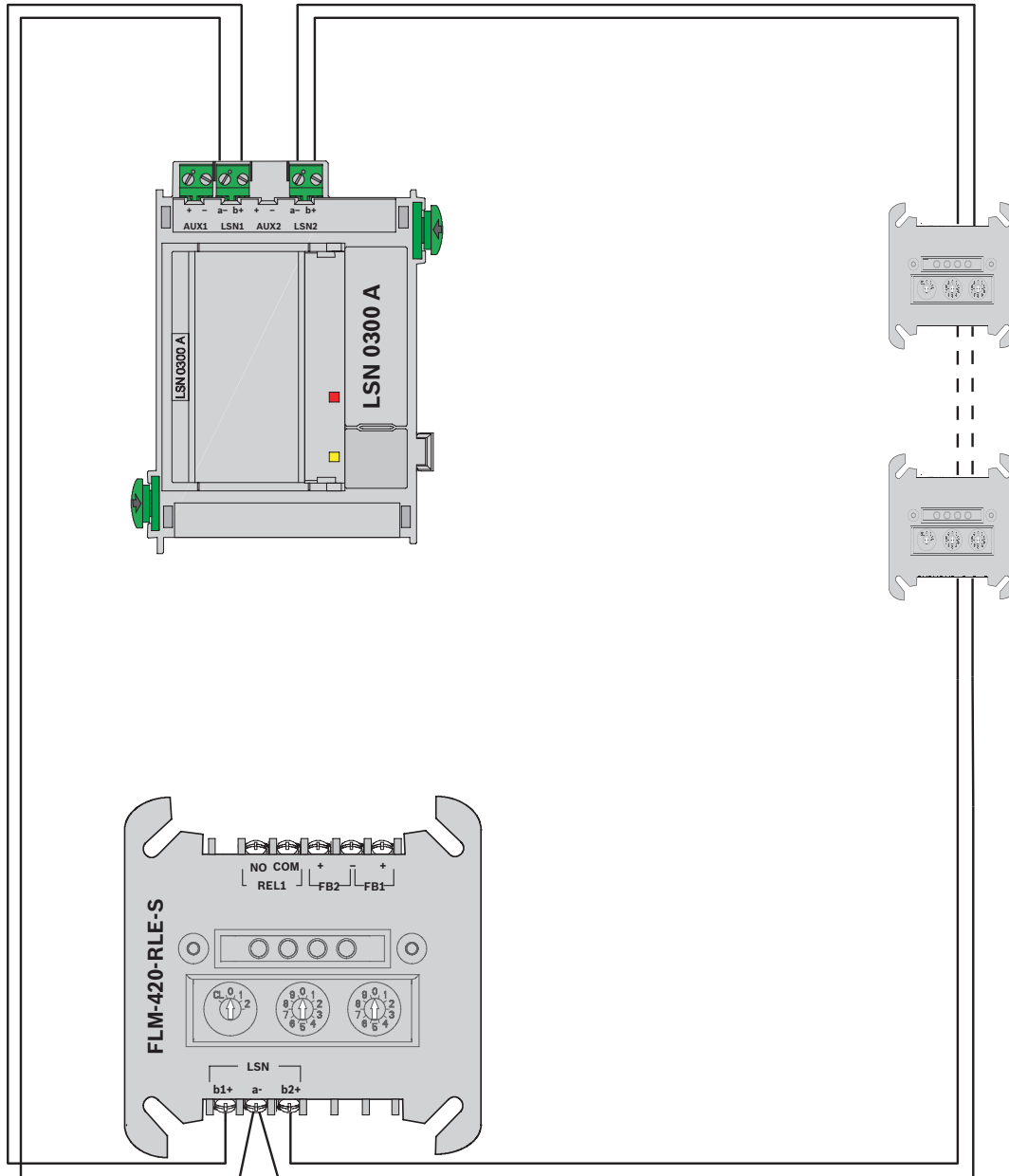
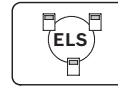


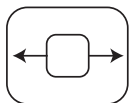
FLM-420-NAC-D/S



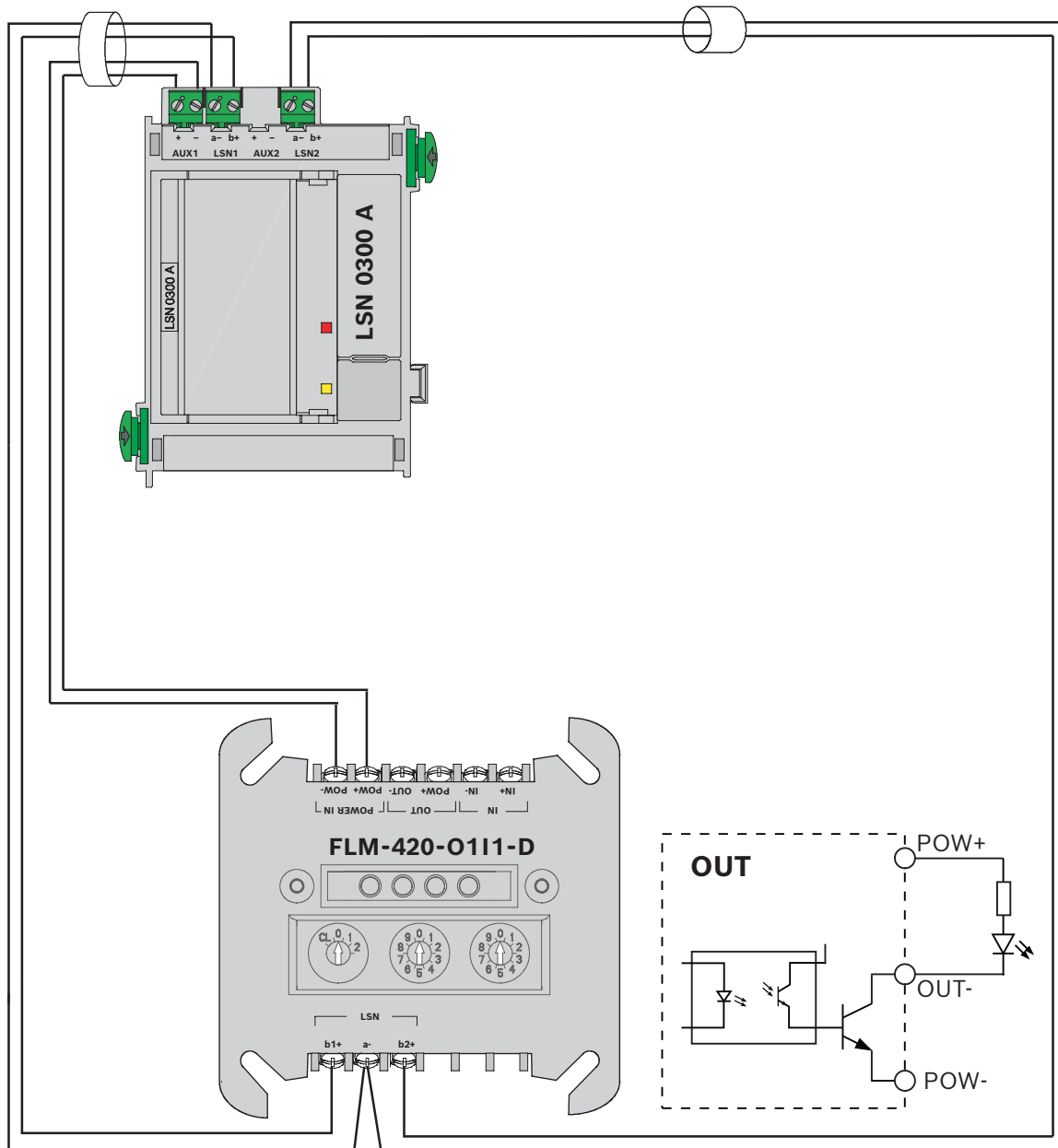
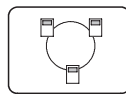


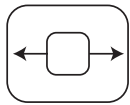
FLM-420-RLE-S



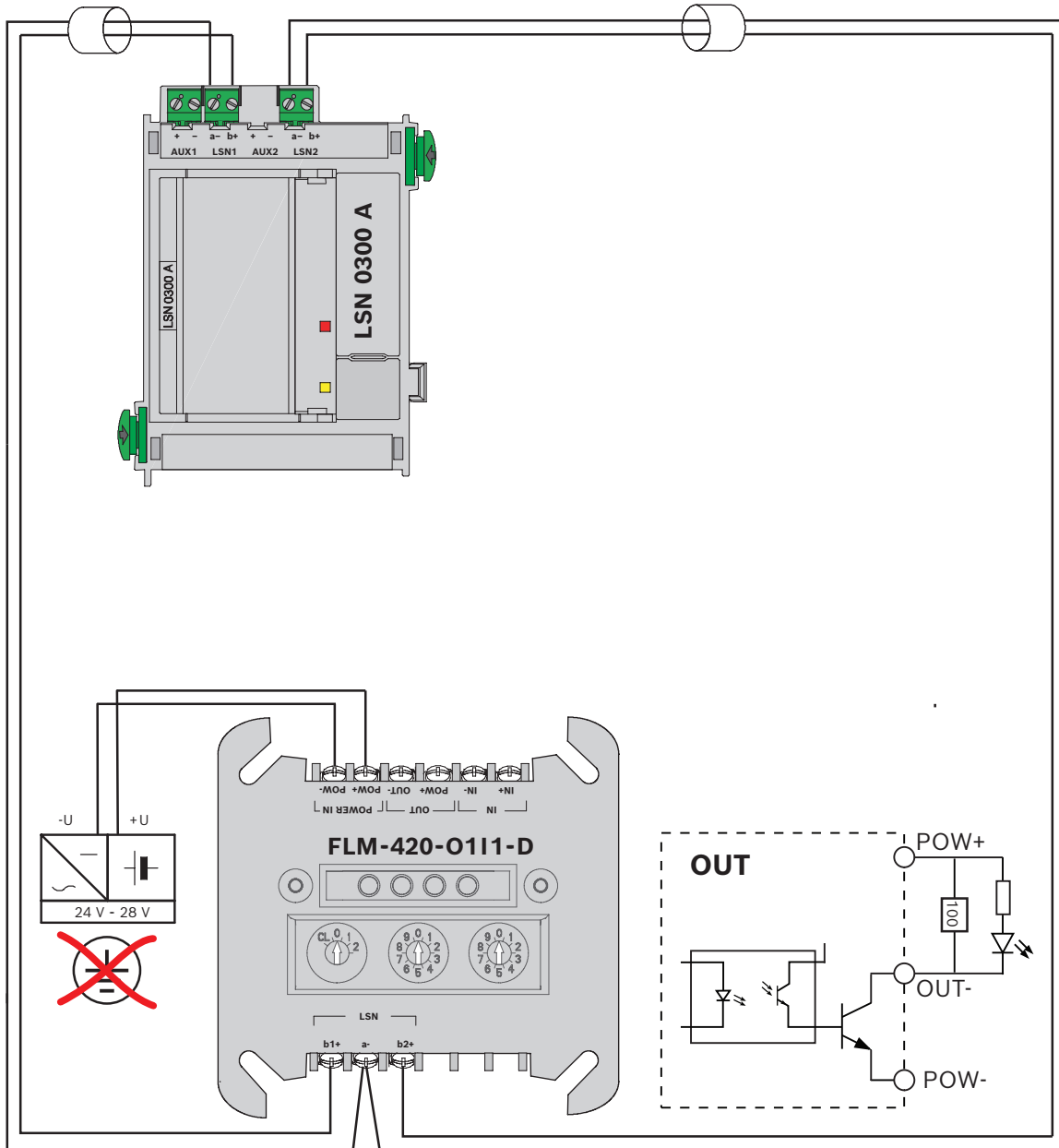
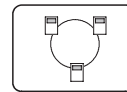


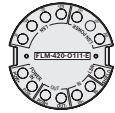
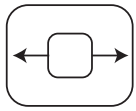
**FLM-420-O111-D**



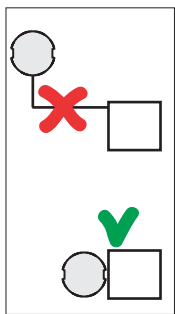
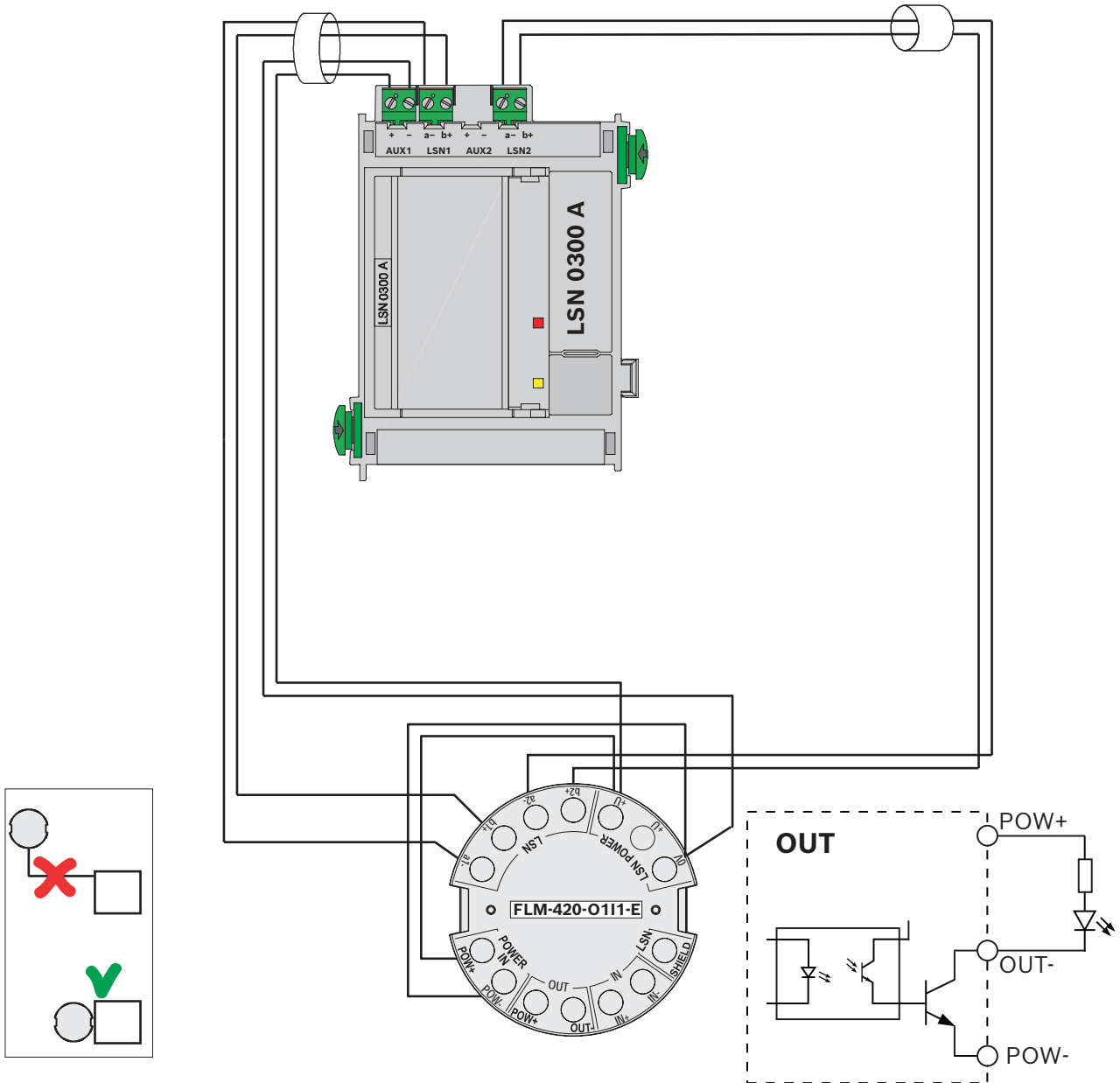
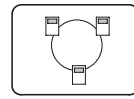


**FLM-420-O111-D**

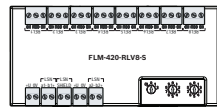
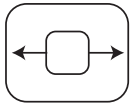




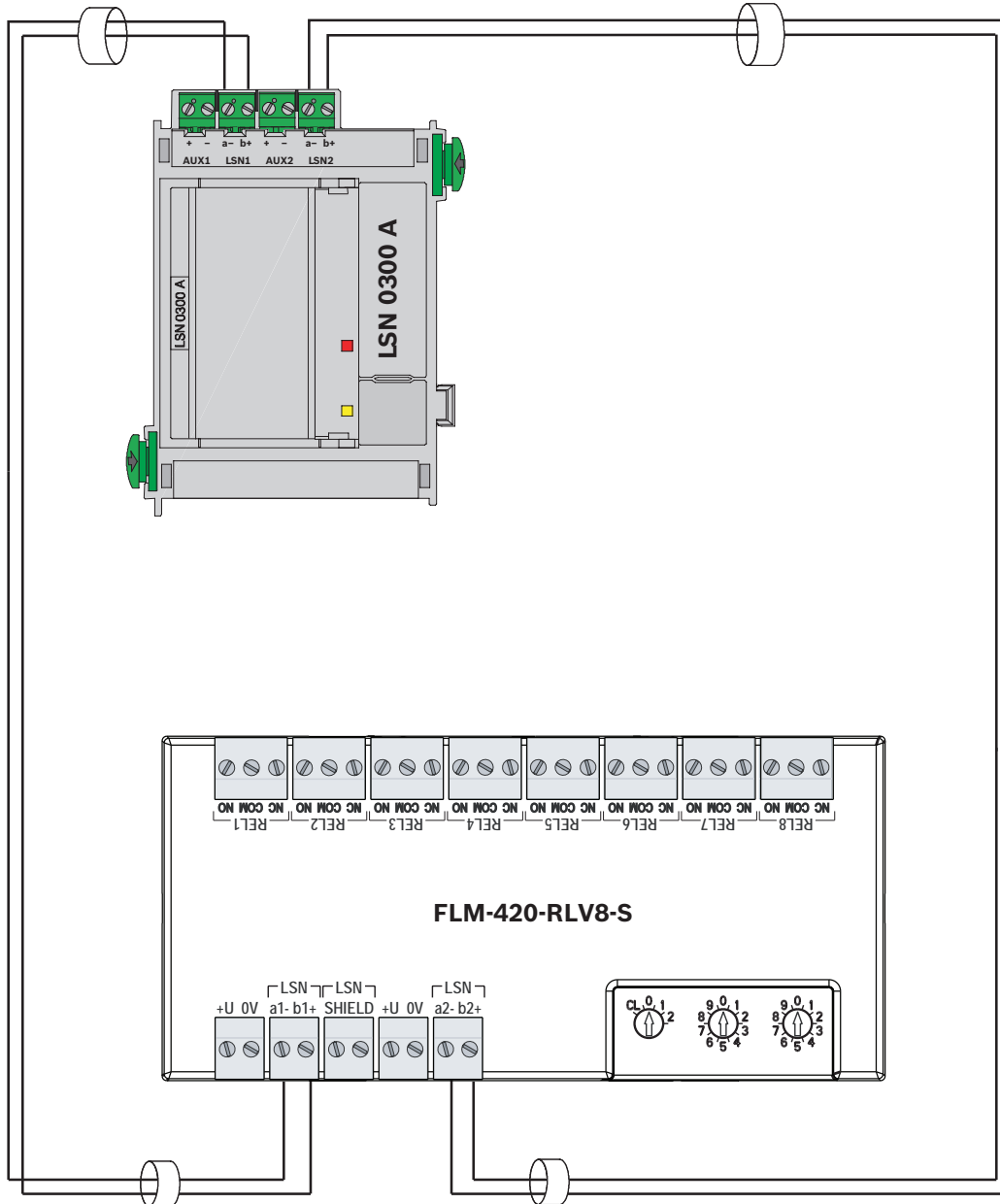
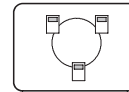
FLM-420-O111-E





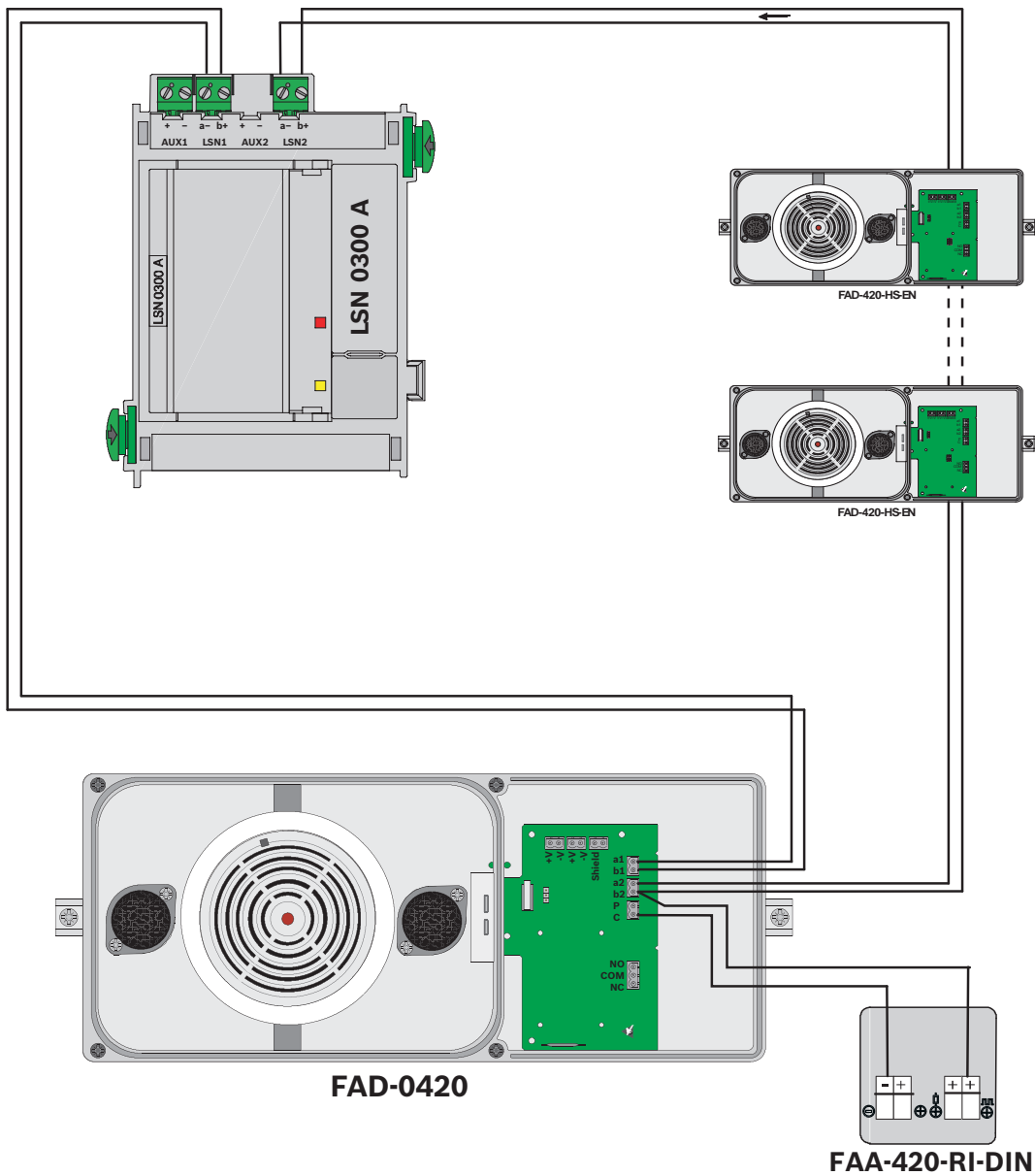


**FLM-420-RLV8-S**



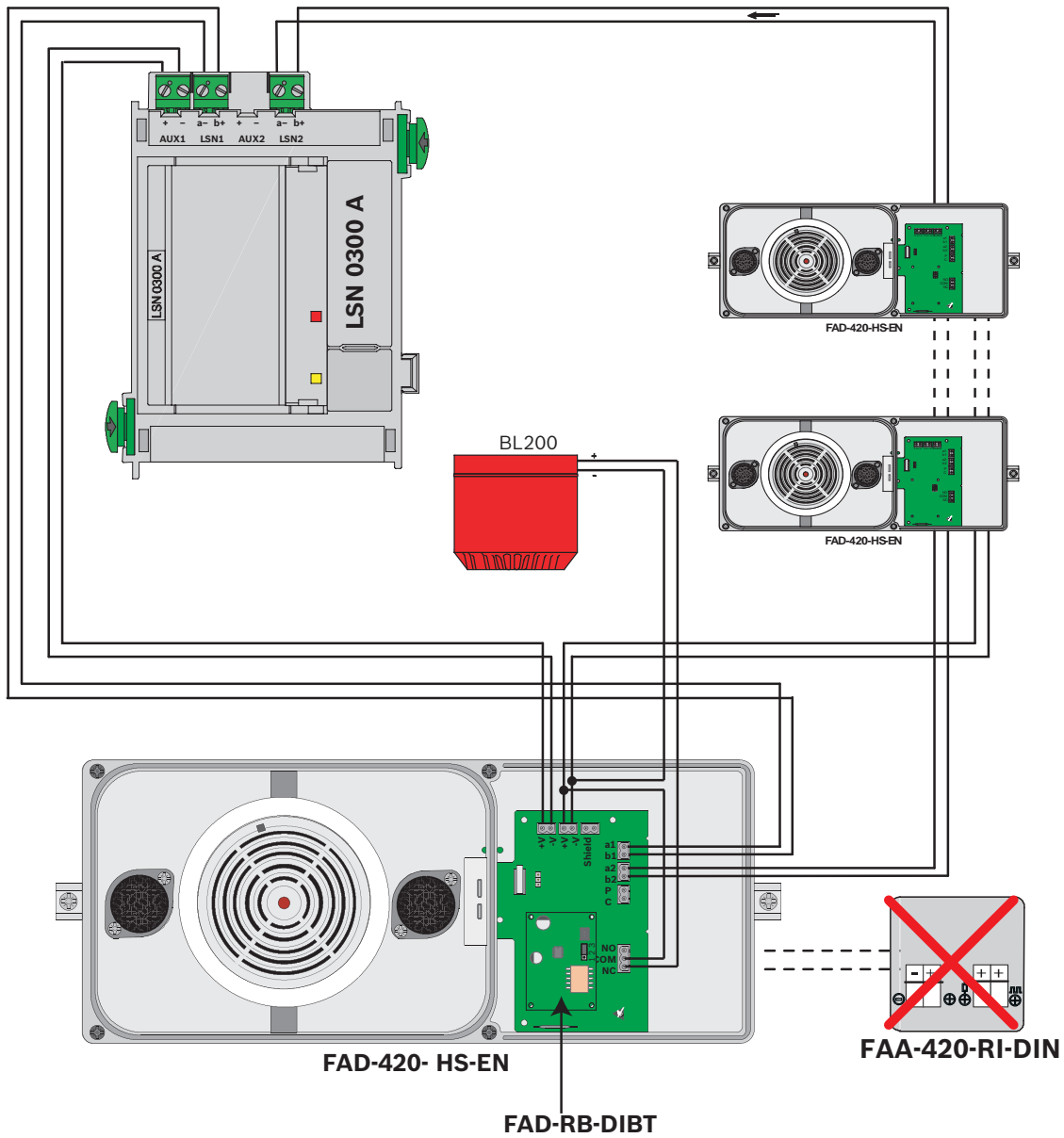


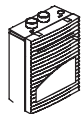
FAD-0420



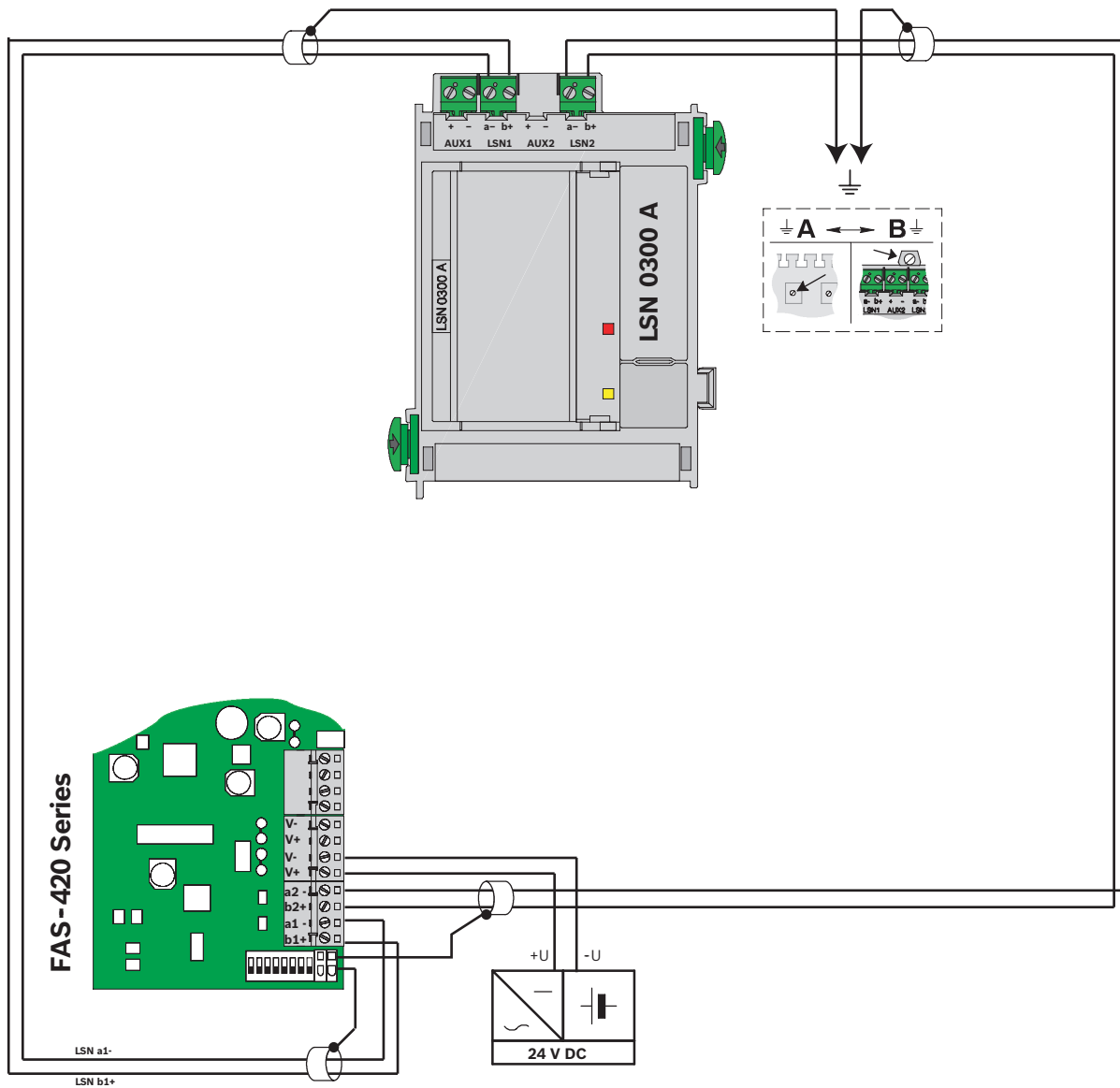


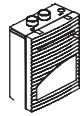
**FAD-420-HS-EN**



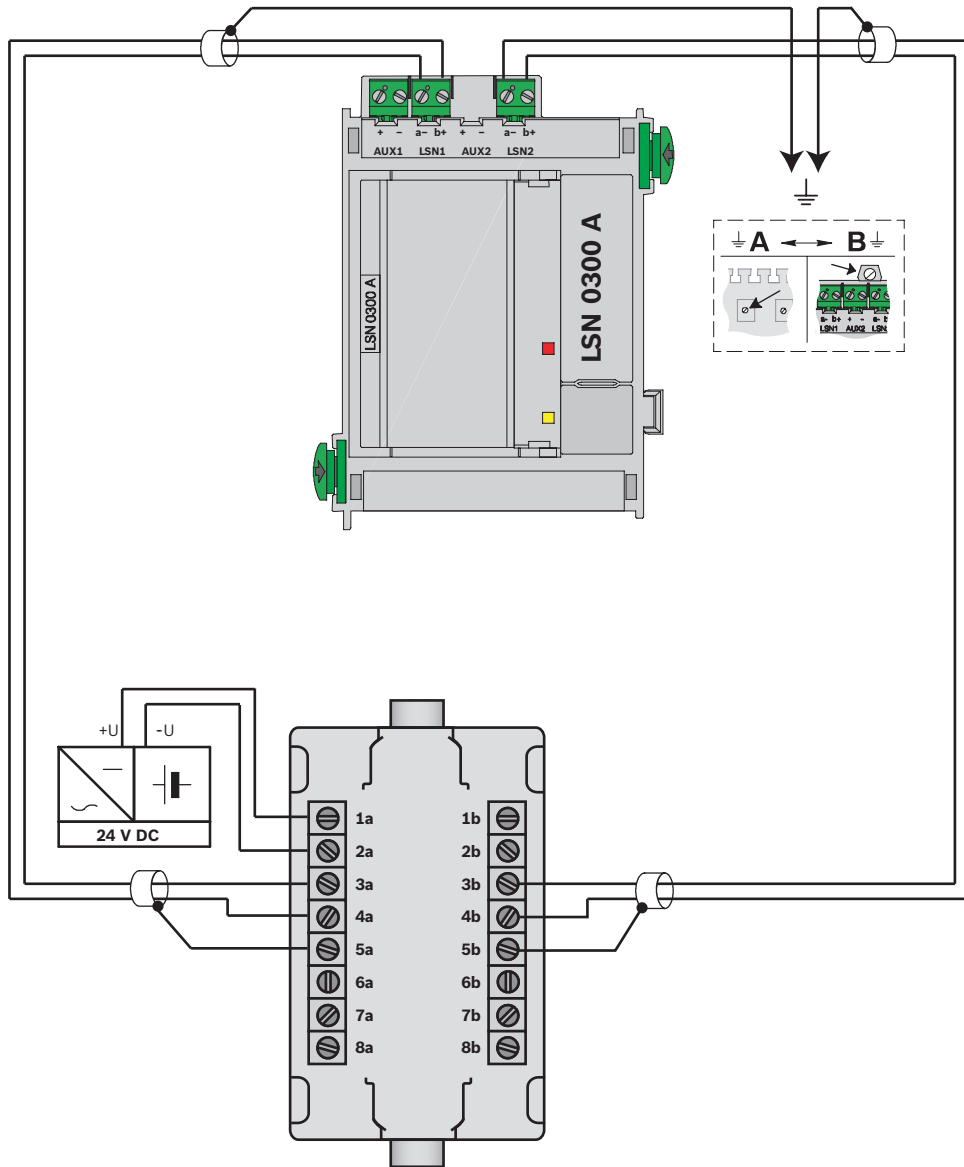


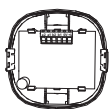
**FAS-420 Series**



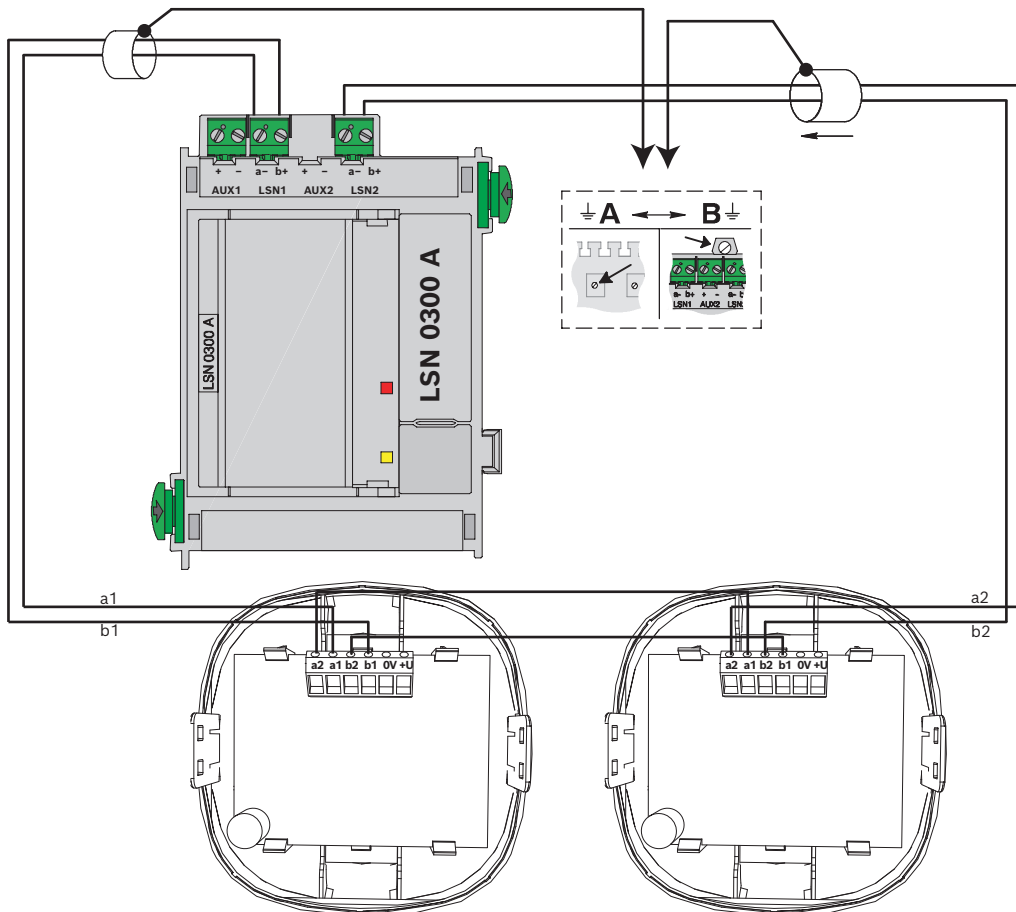
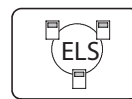


FAS-420-TM Series





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

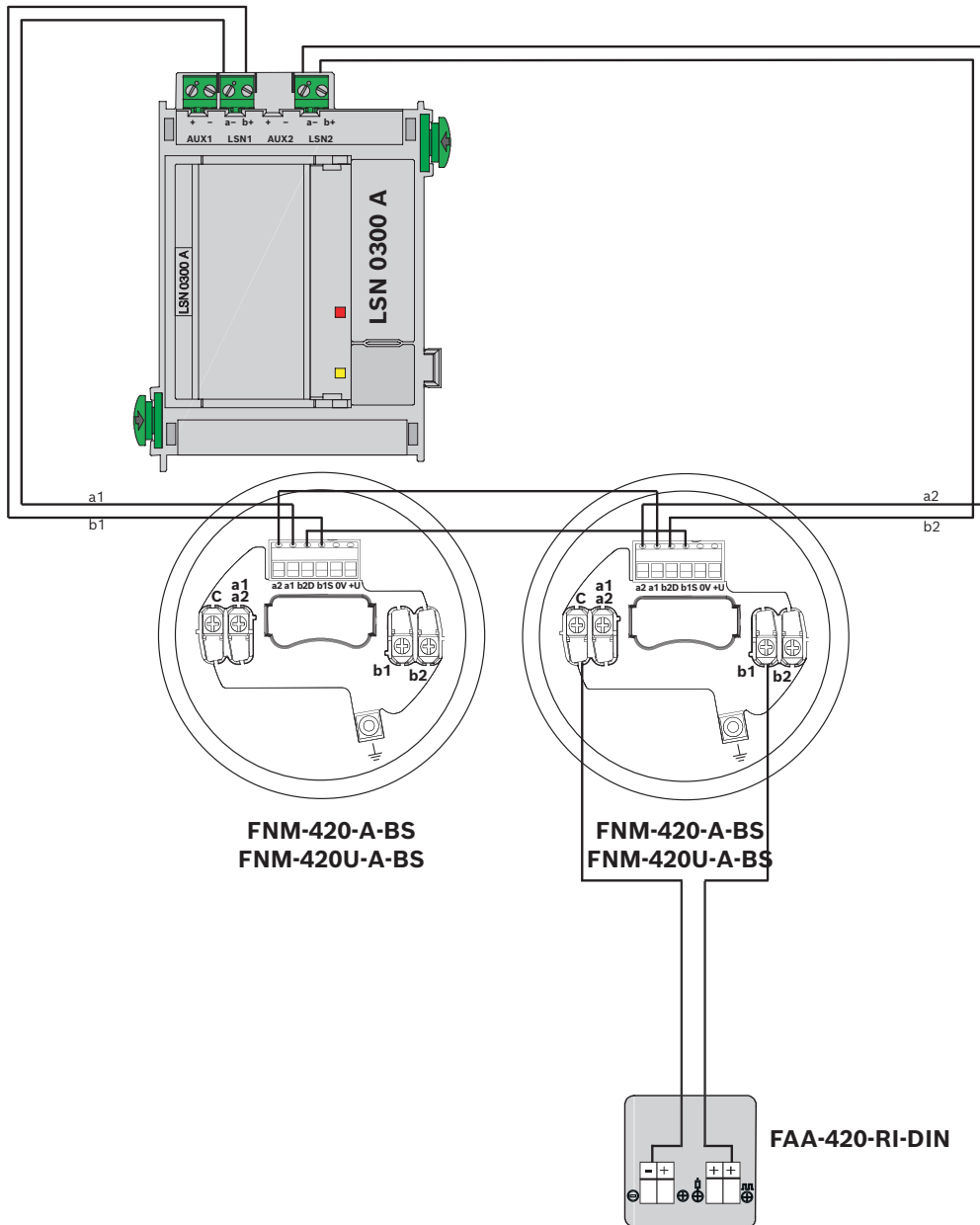
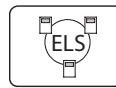


**FNM-420-A/-B**  
**FNM-420U-A/-B**  
**FNM-420V-A**

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



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



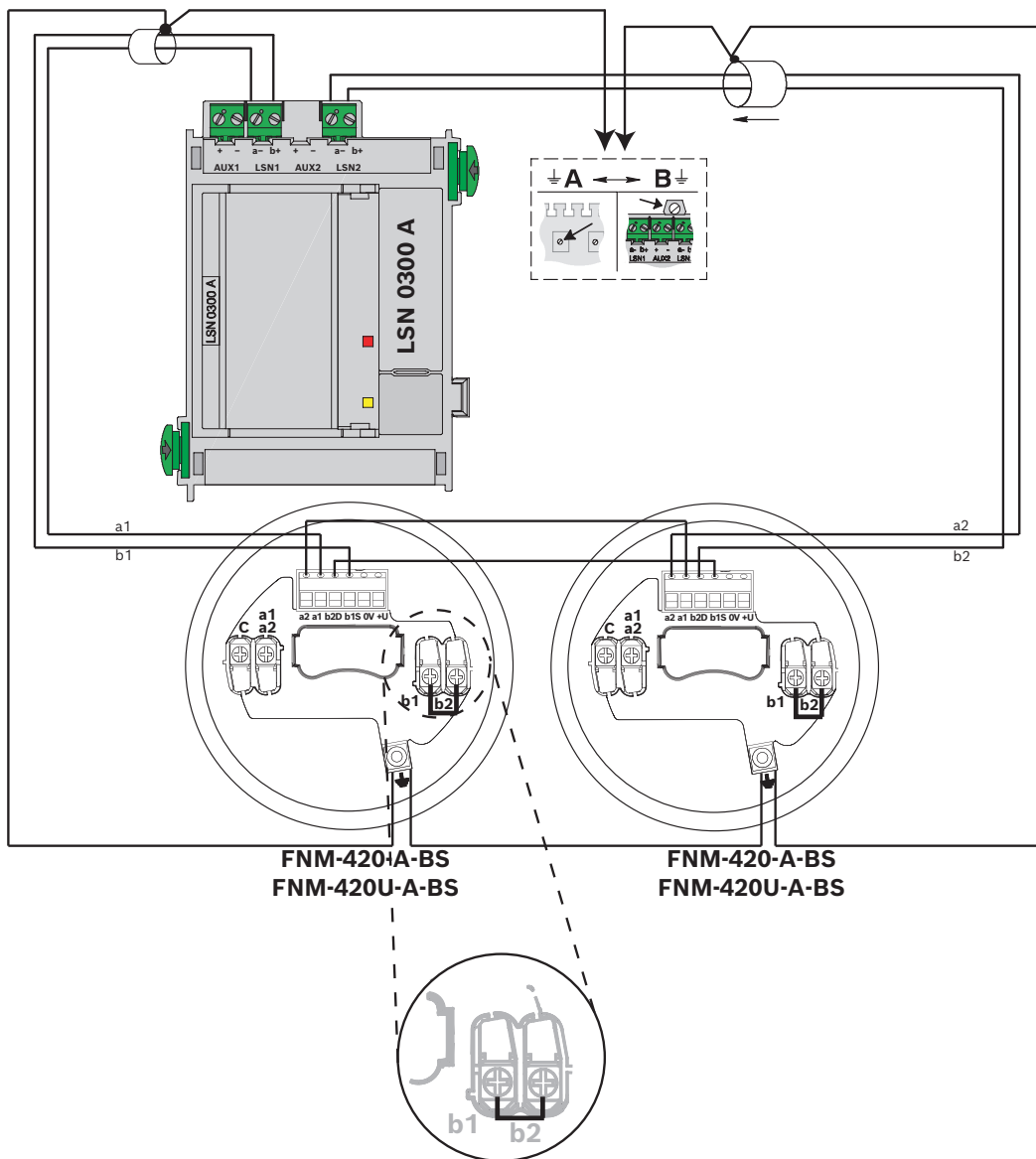
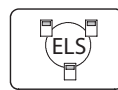
**FNM-420-A-BS**  
**FNM-420U-A-BS**

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

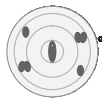
**FAA-420-RI-DIN**



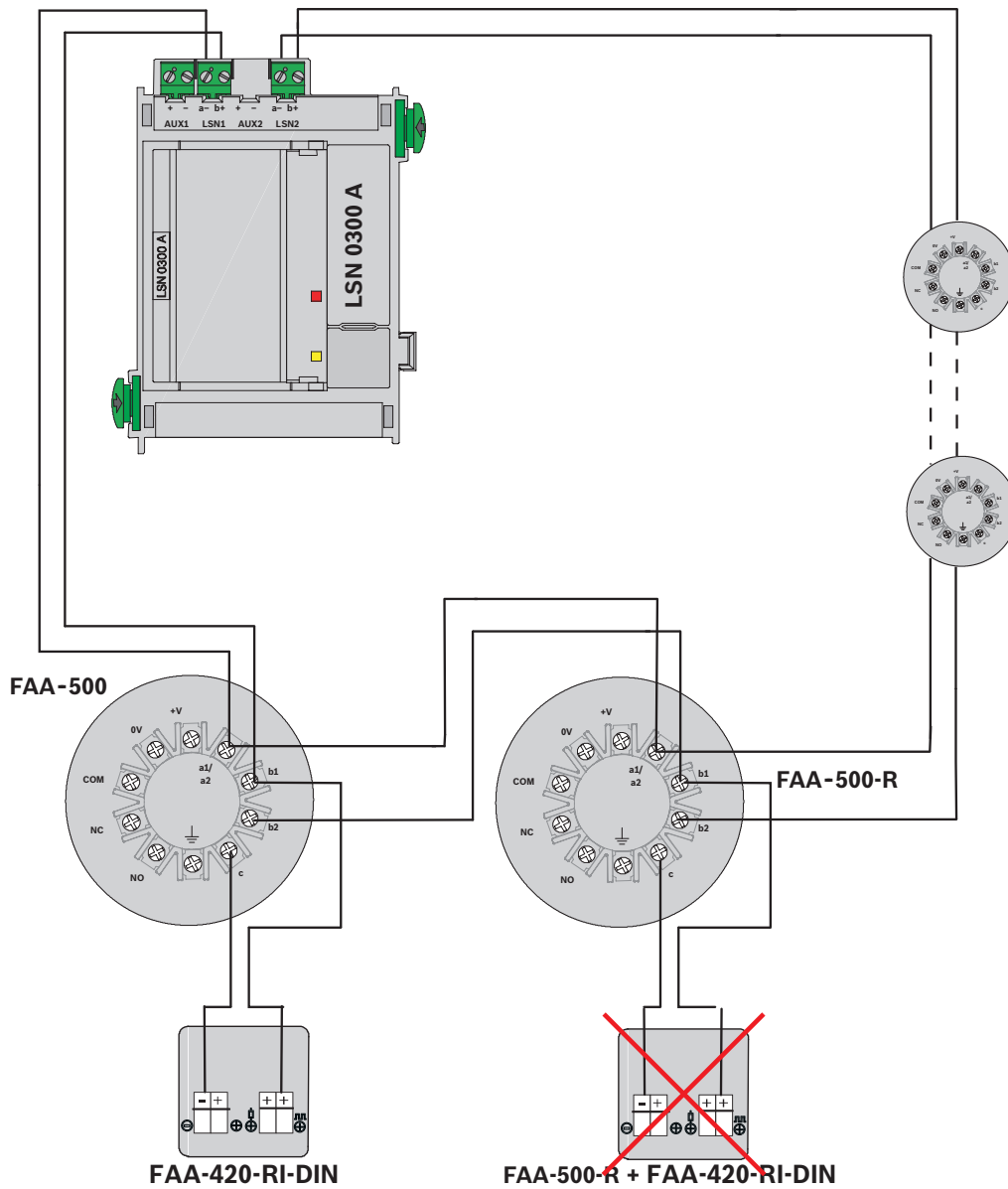
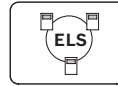
**FNM-420-A-BS**  
**FNM-420U-A-BS**

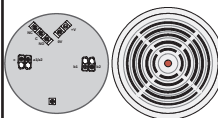




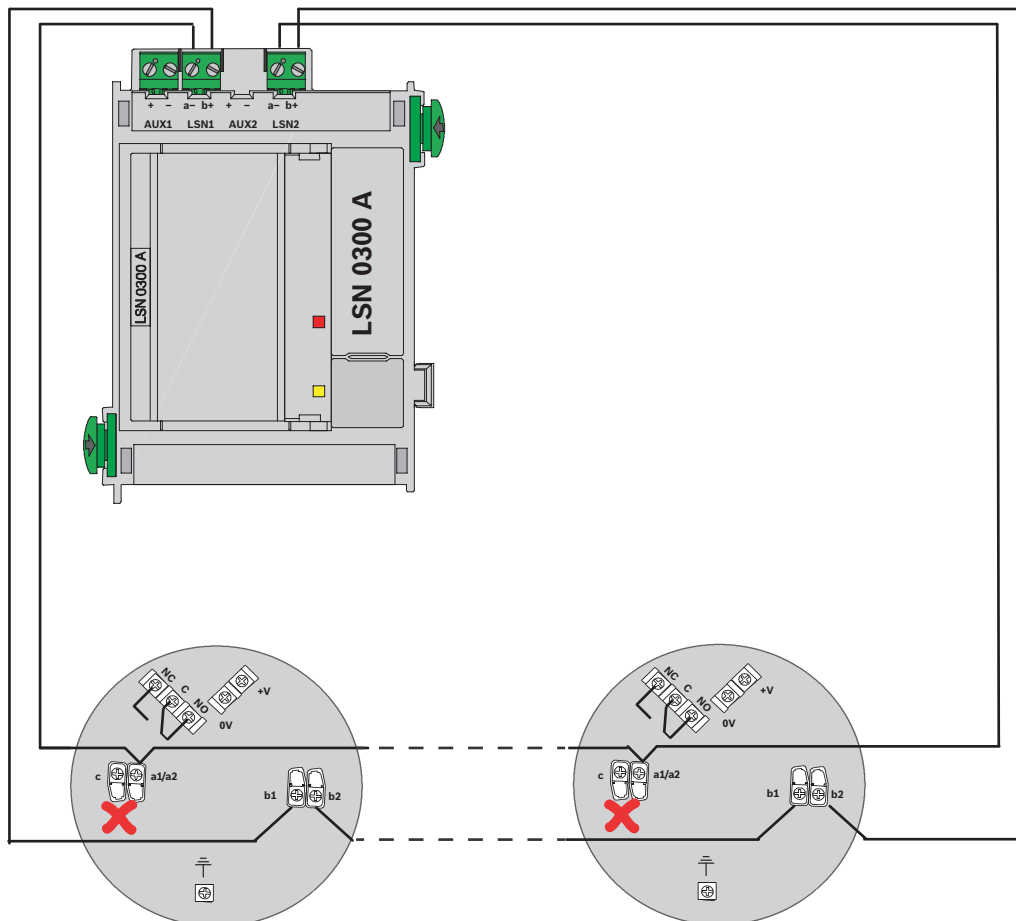
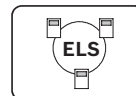


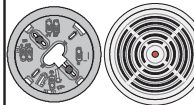
FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P



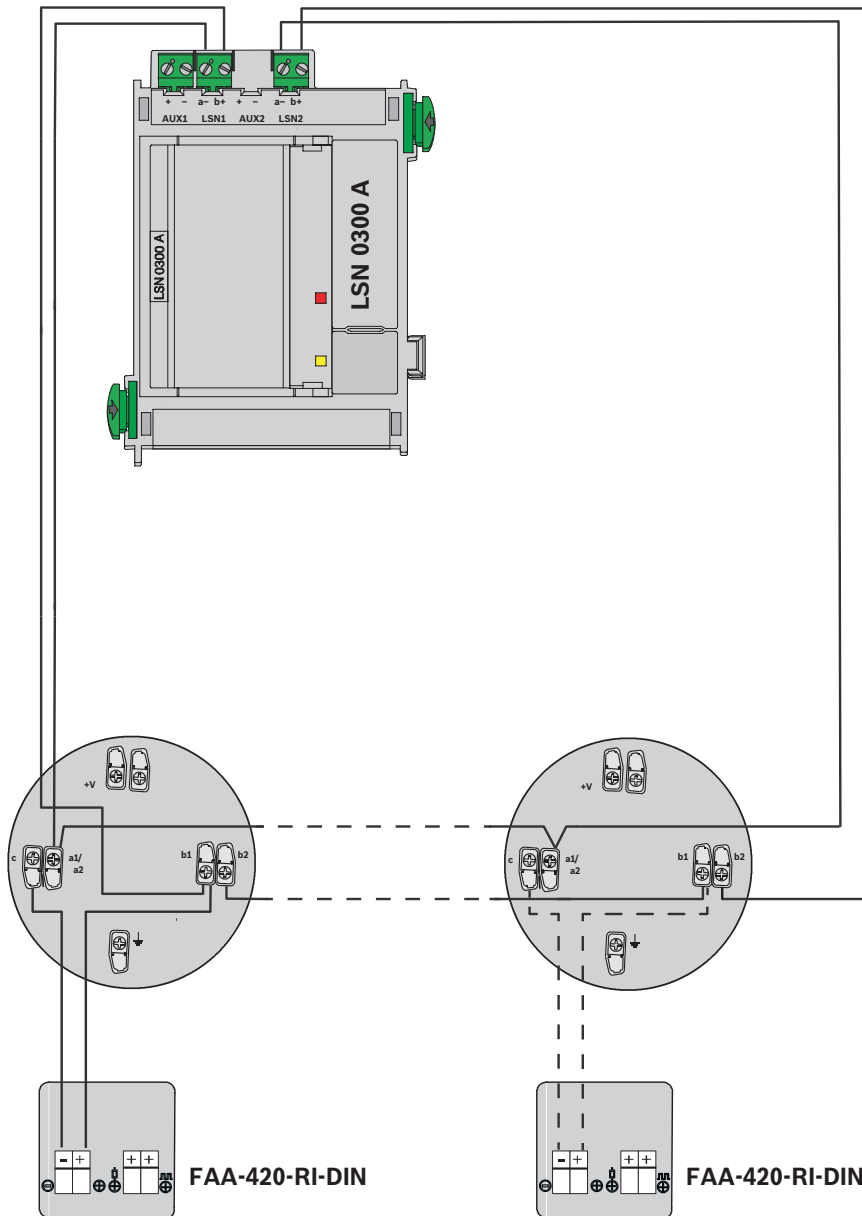
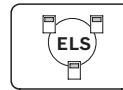


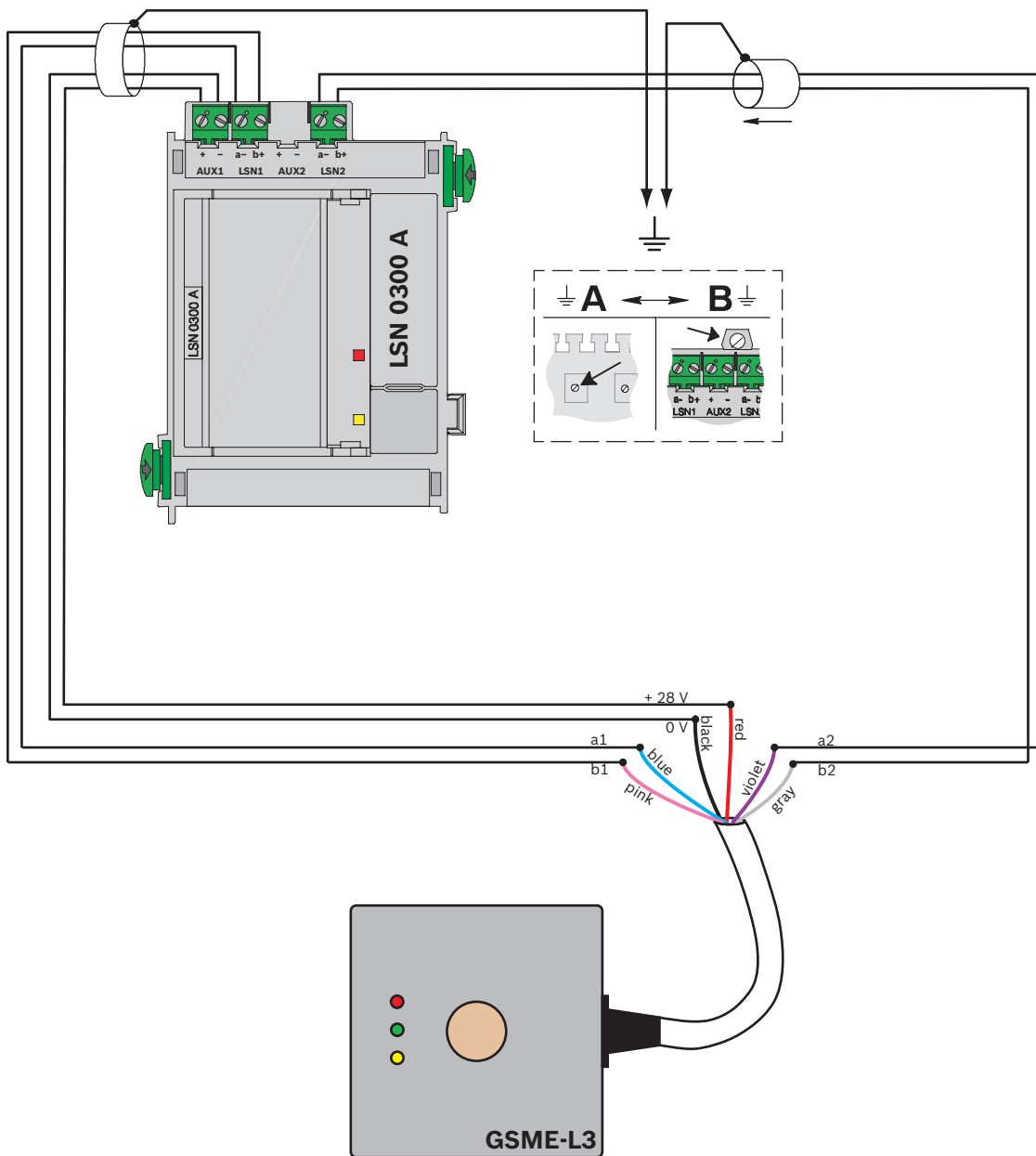
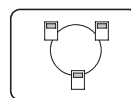
FAA-MSR-420  
FAP-425-O, FAP-425-O-R  
FAP-425-OT, FAP-425-OT-R  
FAP-425-T-R  
FAP-425-DO-R, FAP-425-DOT-R  
FAP-425-DOTC-R, FAP-425-DOTCO-R

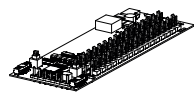




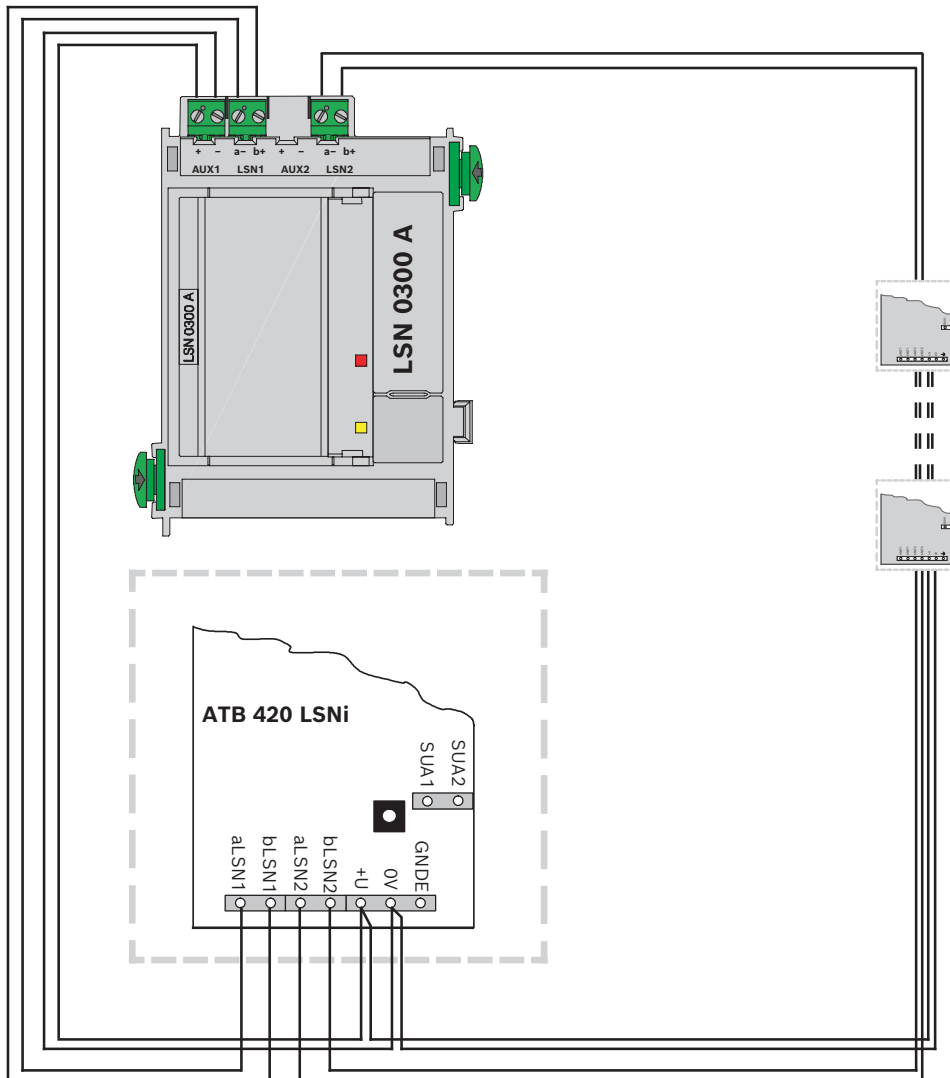
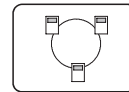
MS 400, MS 400 B  
 FAP-425-O, FAP-425-O-R  
 FAP-425-OT, FAP-425-OT-R  
 FAP-425-T-R  
 FAP-425-DO-R, FAP-425-DOT-R  
 FAP-425-DOTC-R, FAP-425-DOTCO-R





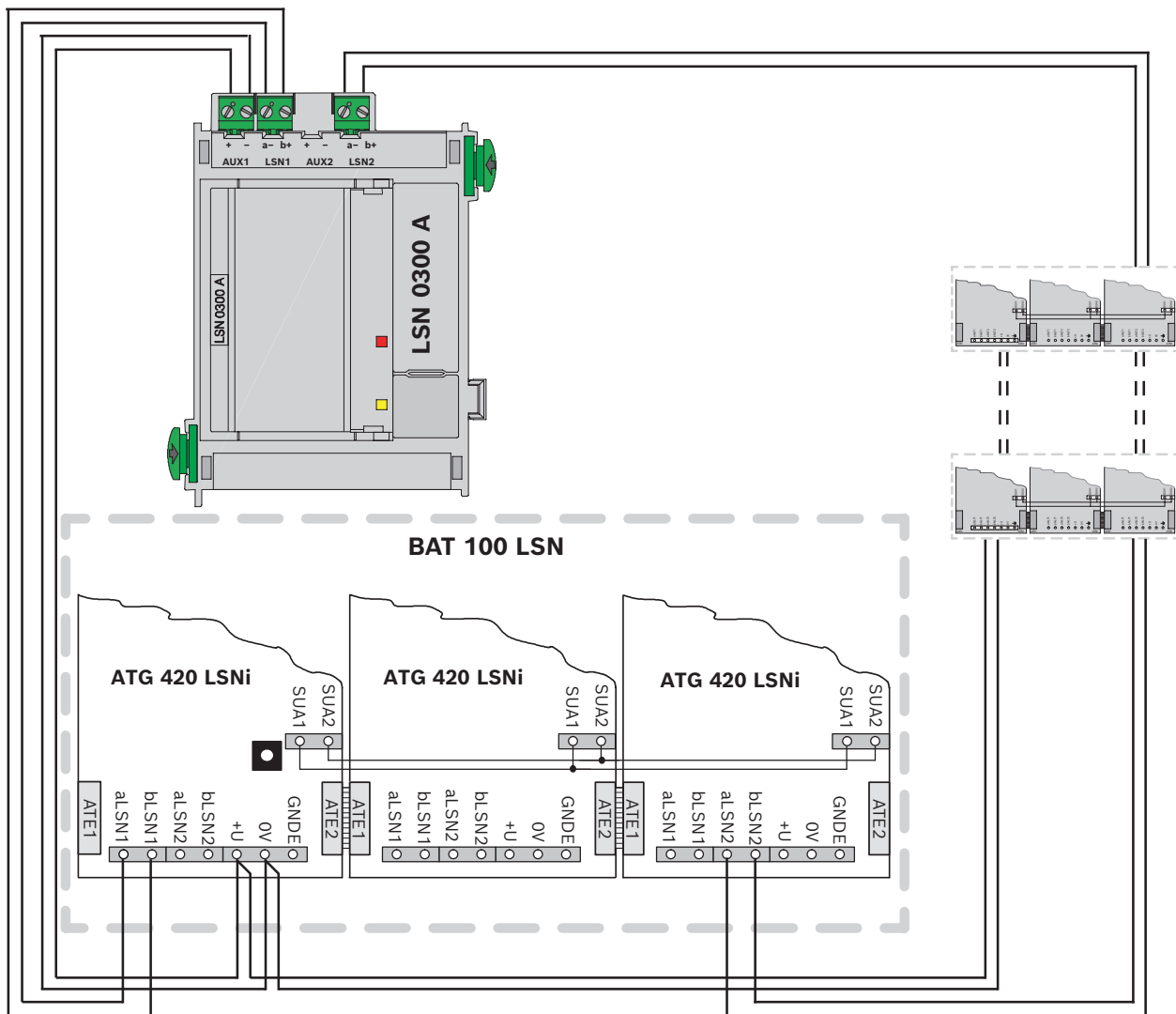
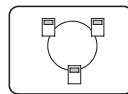


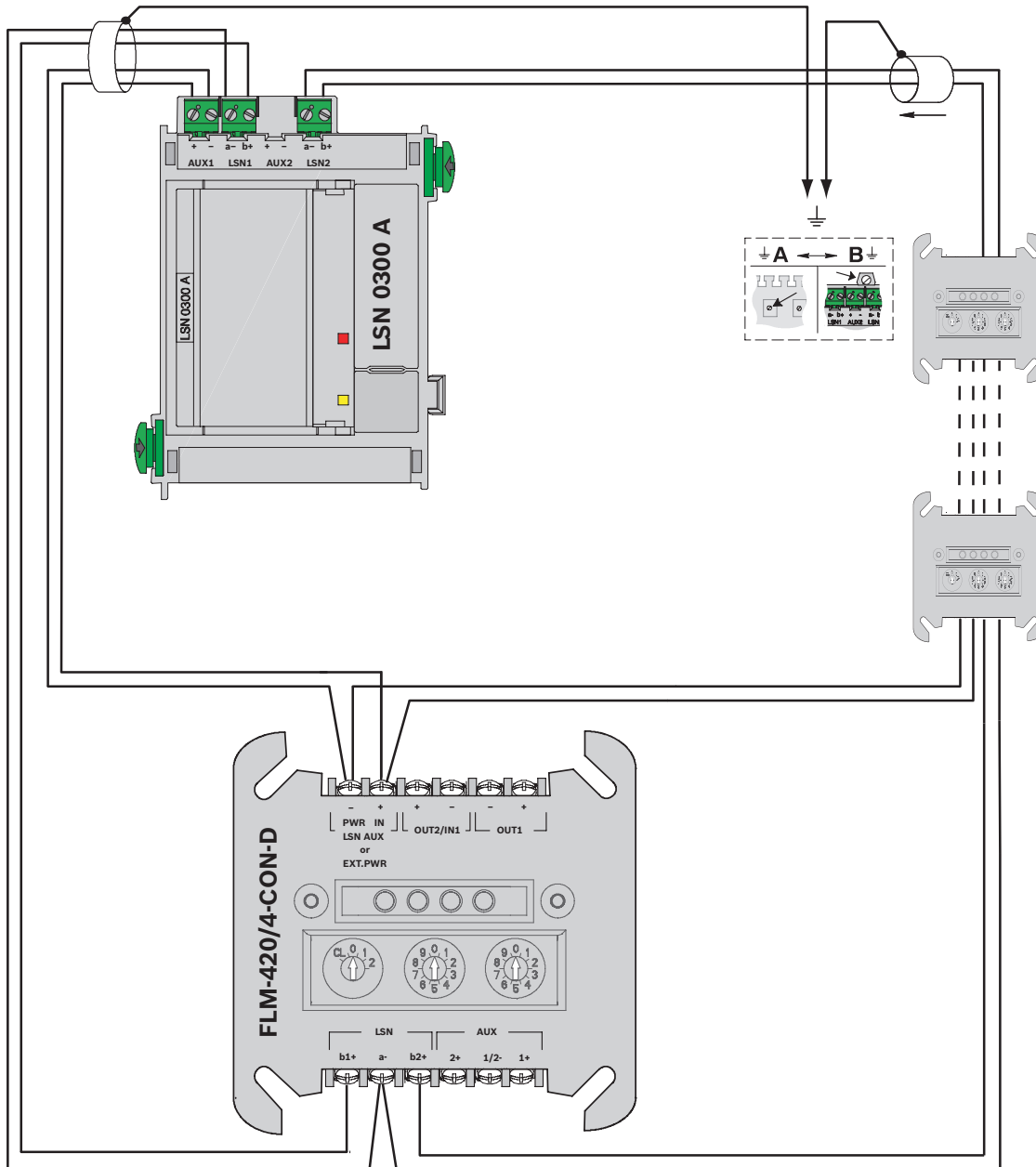
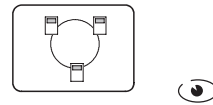
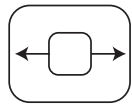
ATB 420 LSNi





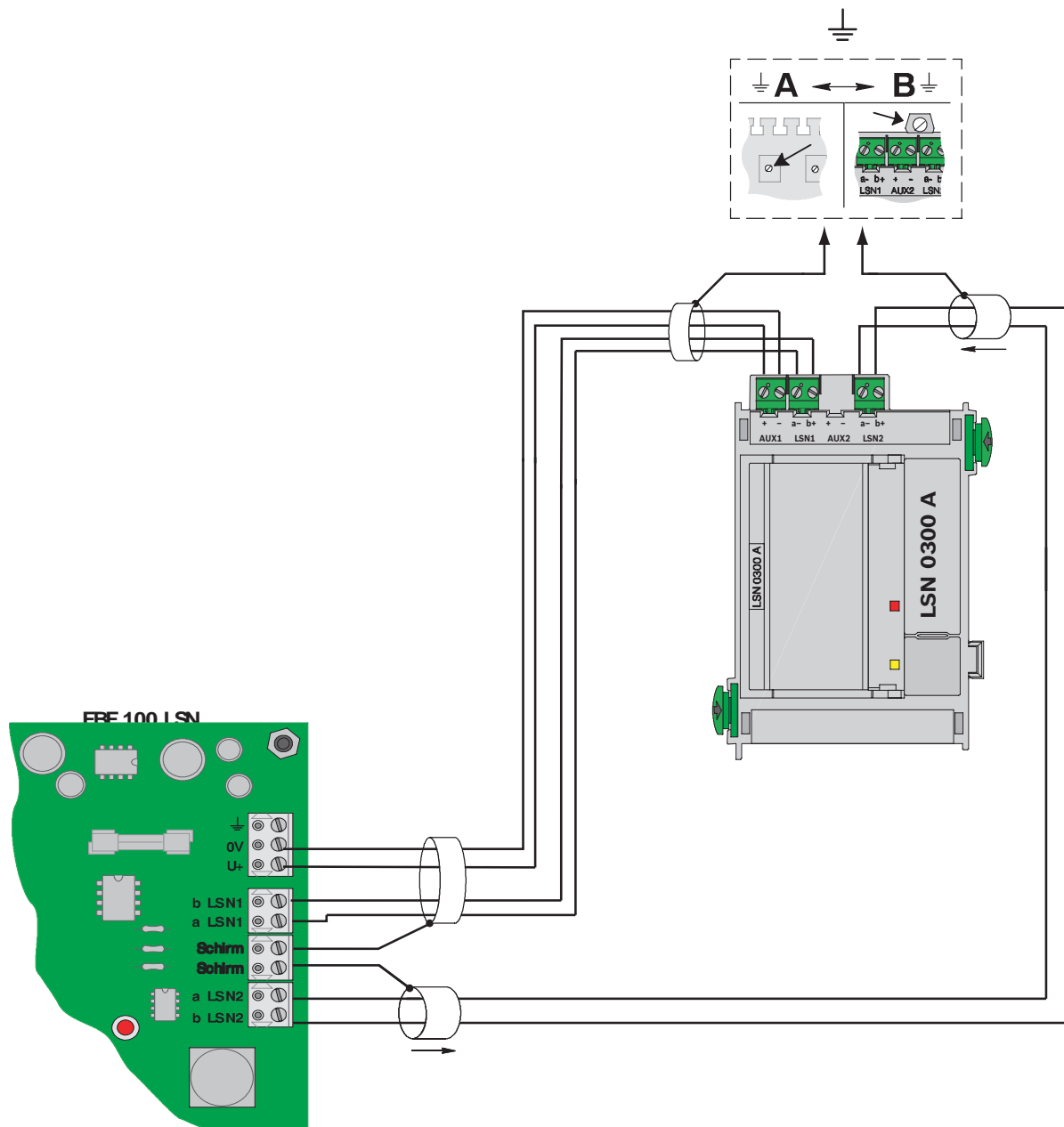
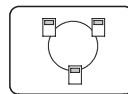
**BAT 100 LSN**  
**ATG 420 LSNi**



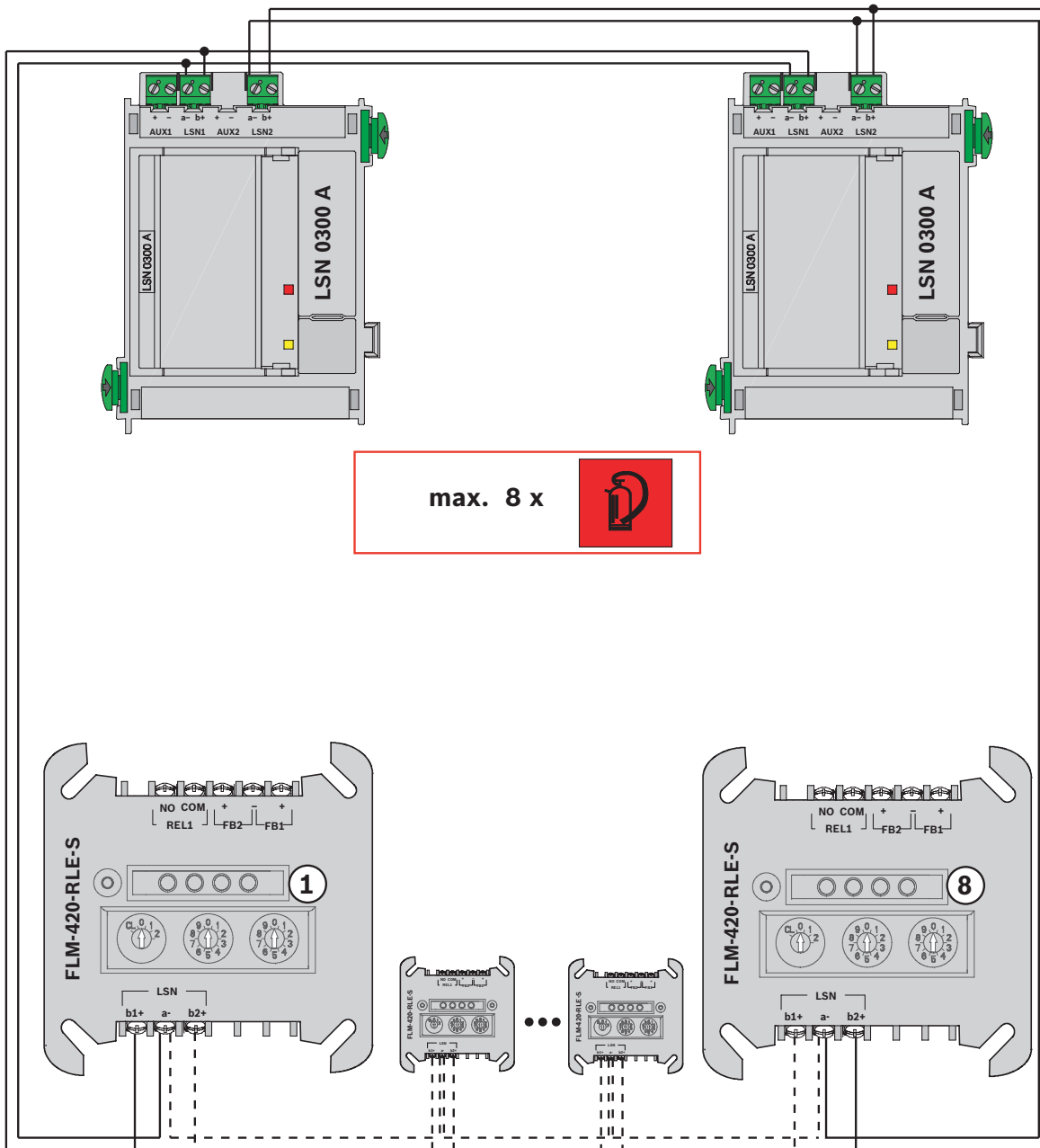
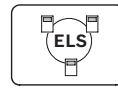
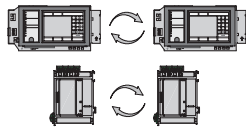




FBF 100 LSN

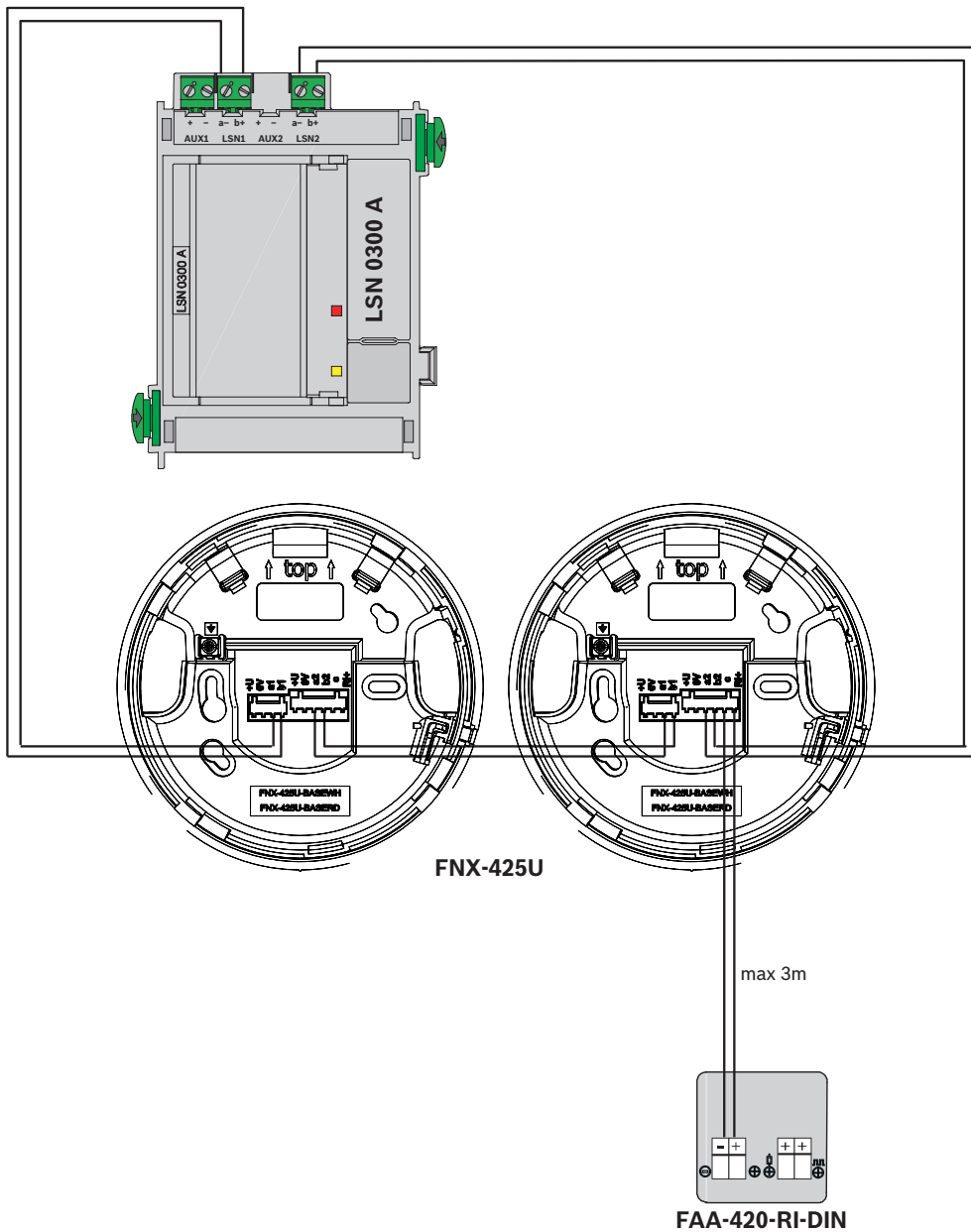
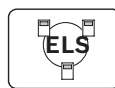








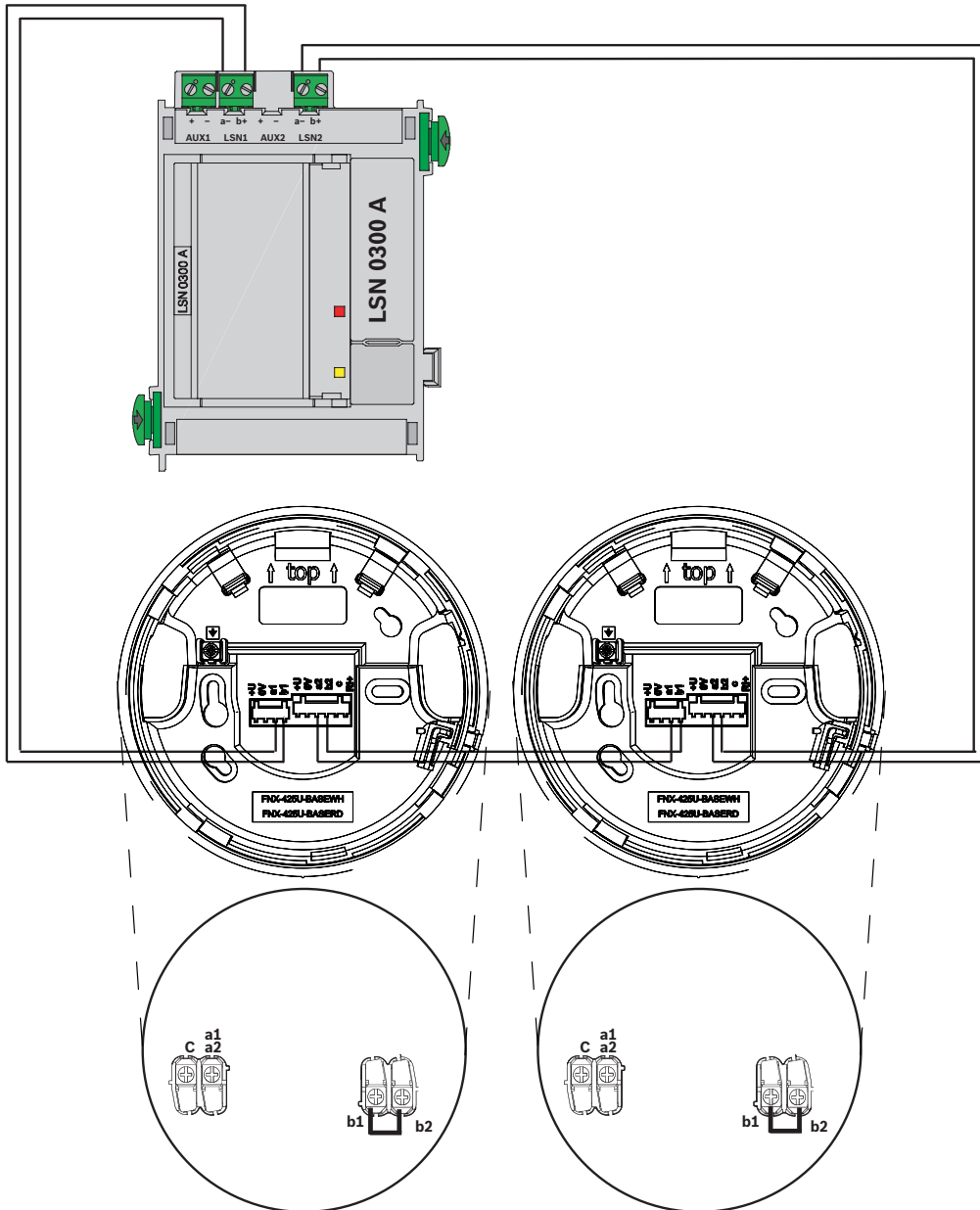
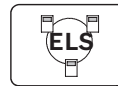
**FNX-425U-WFWH**  
**FNX-425U-RFWH**  
**FNX-425U-WFRD**  
**FNX-425U-RFRD**

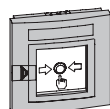
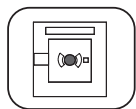




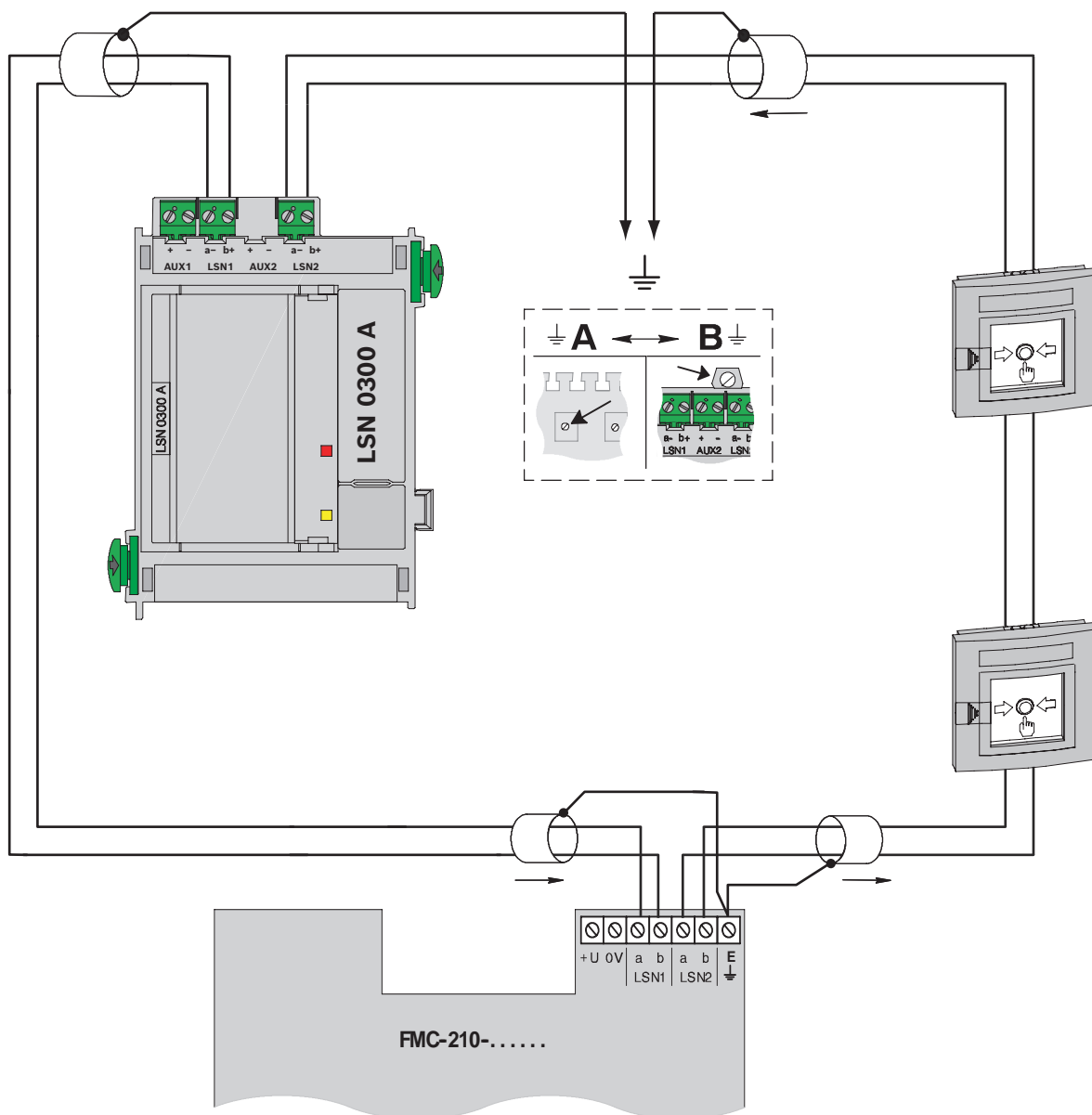
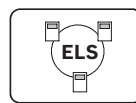
FNX-425U-WFWH  
 FNX-425U-RFWH  
 FNX-425U-WFRD  
 FNX-425U-RFRD

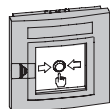
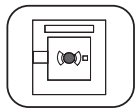
+ FNX-425U-COVWH  
 FNX-425U-COVRD



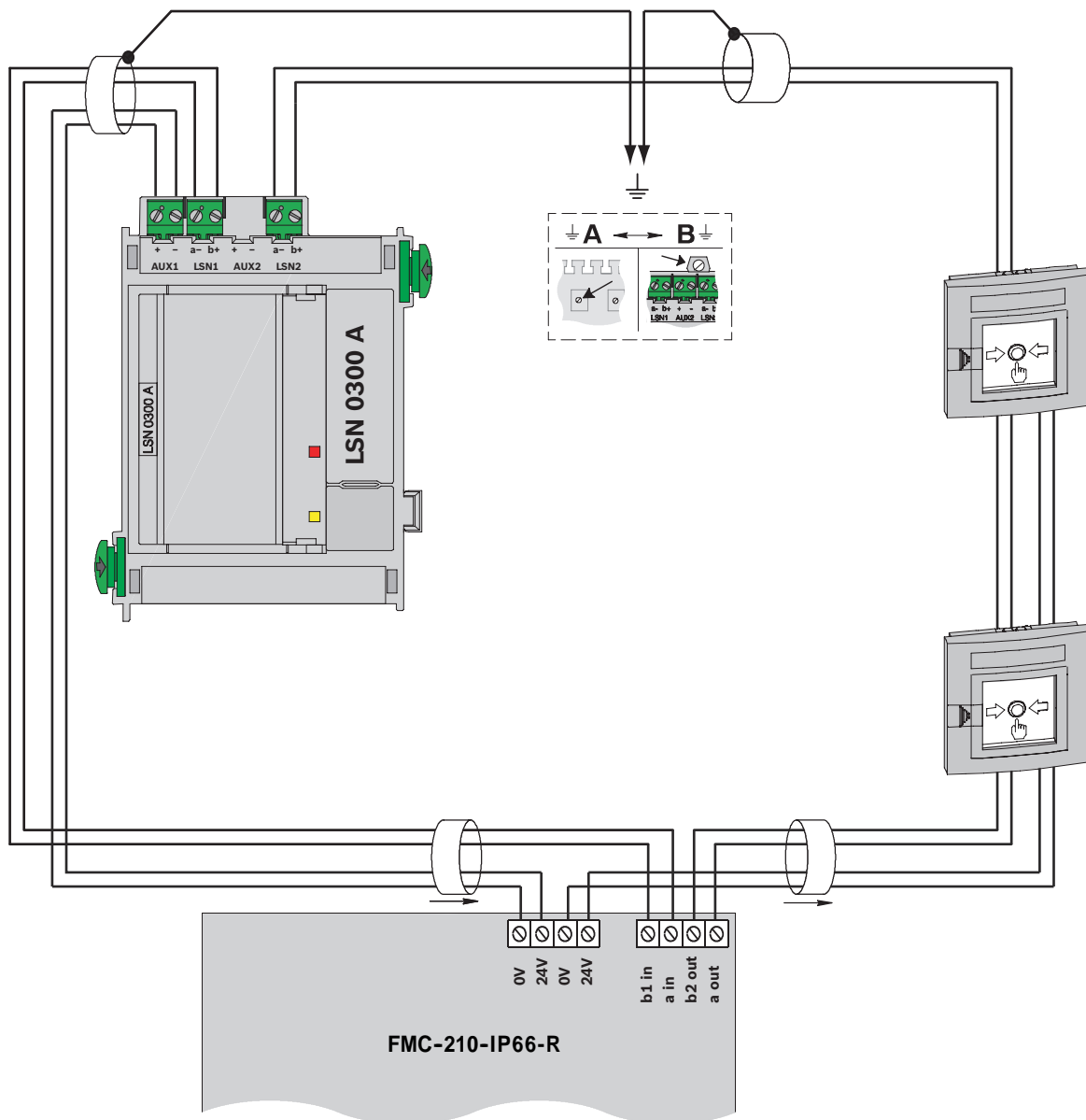
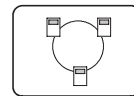


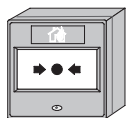
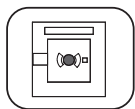
FMC-210...



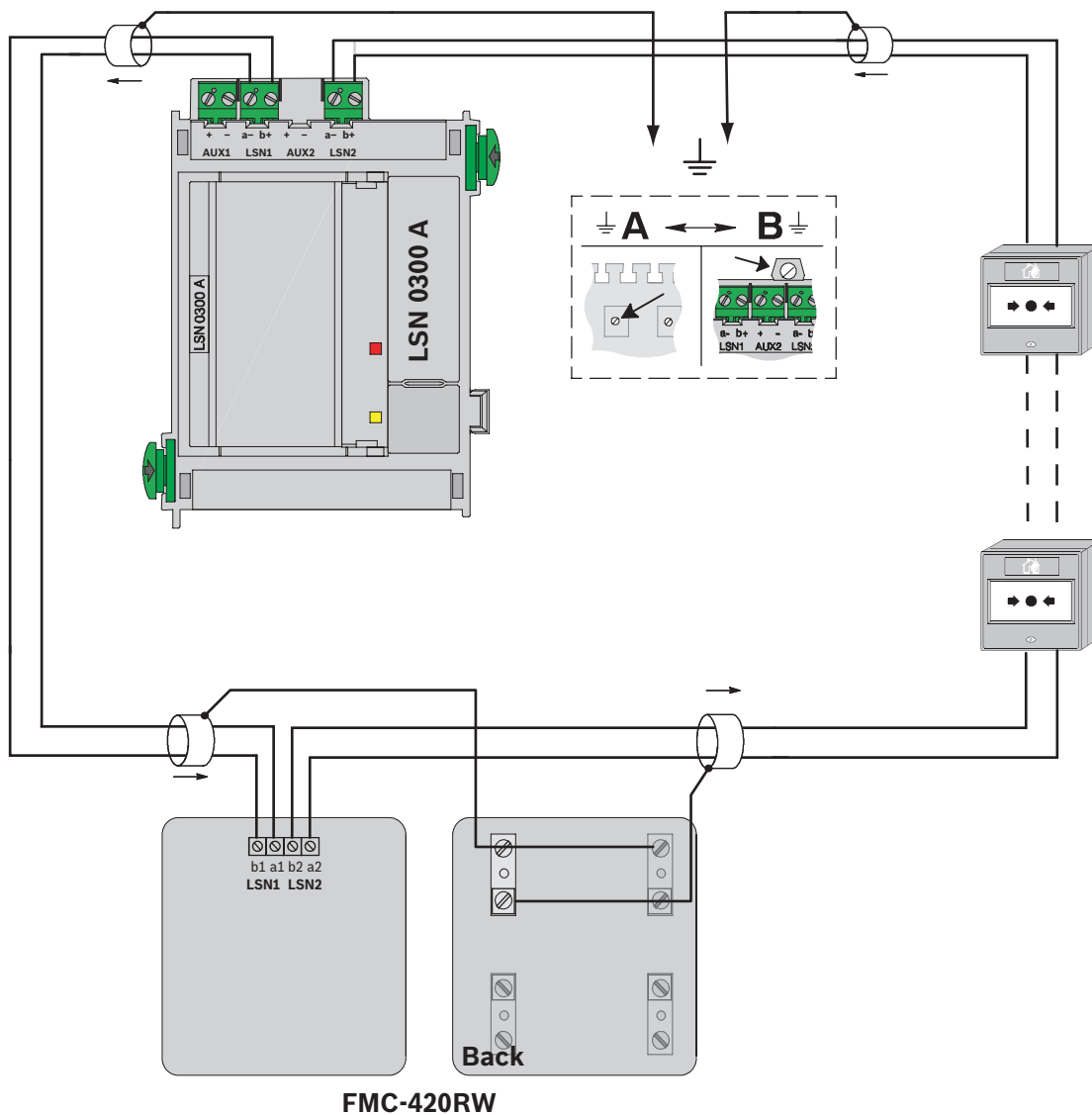
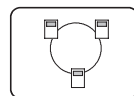


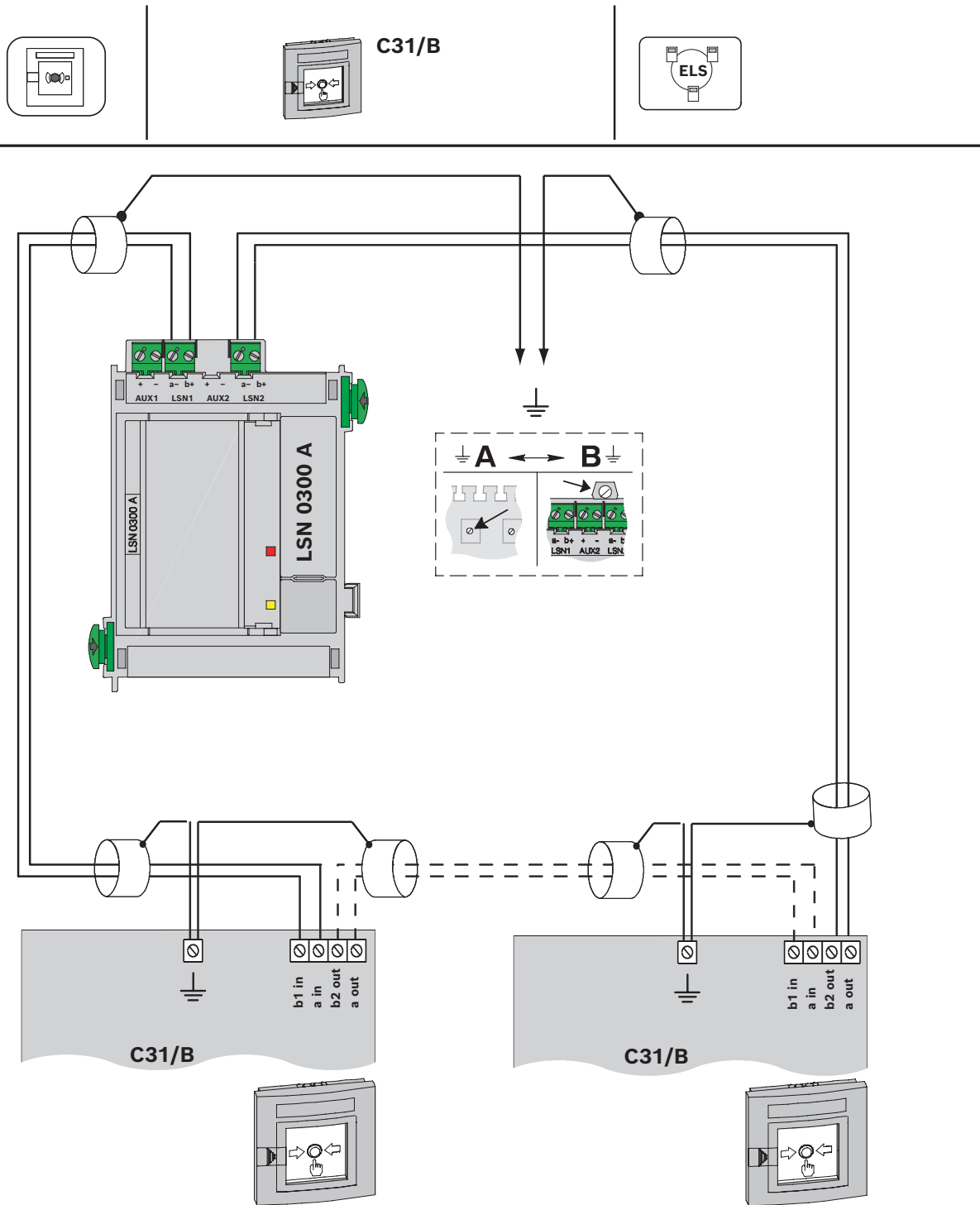
**FMC-210-IP66-R**

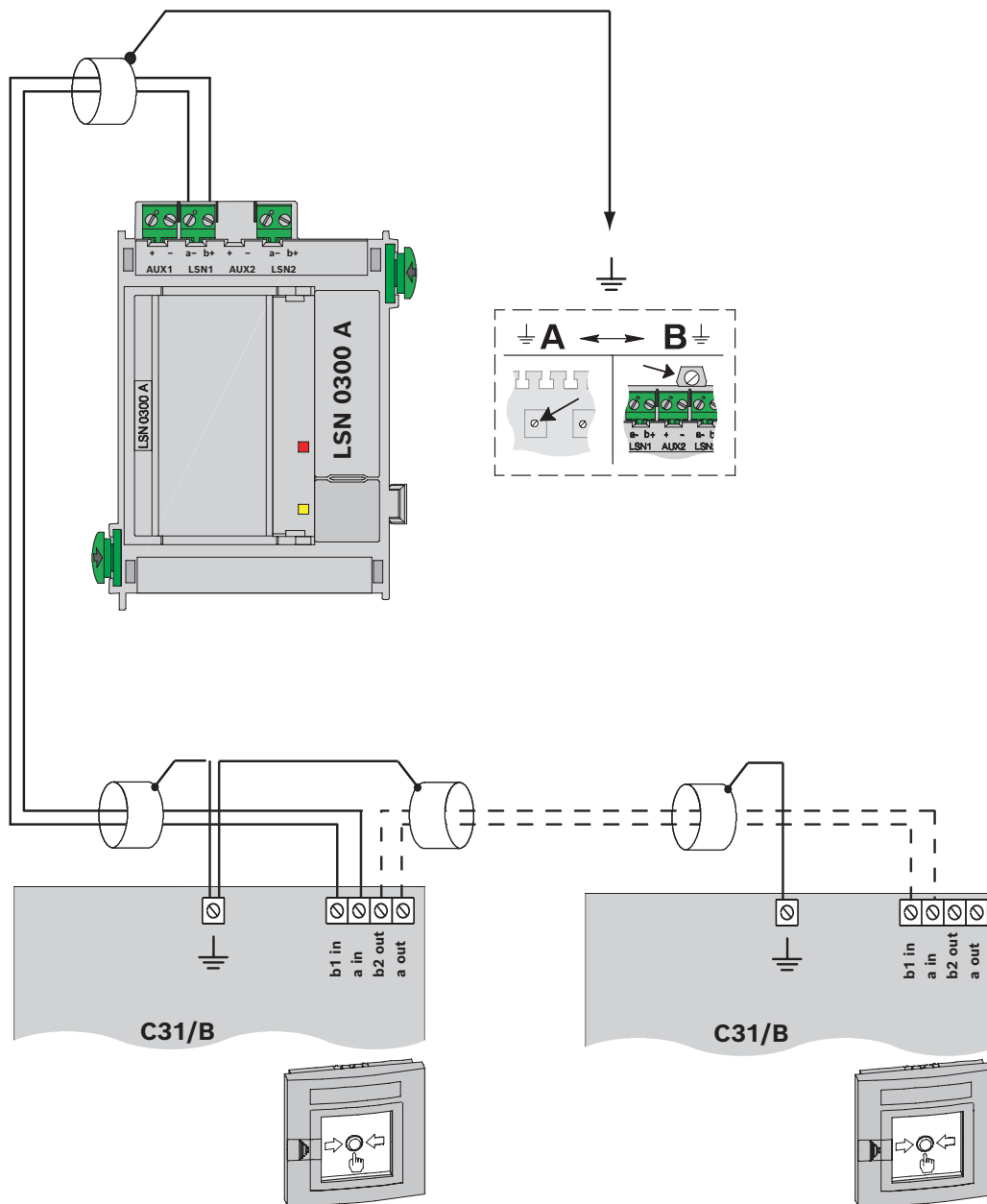
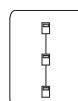
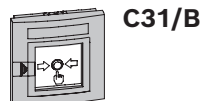
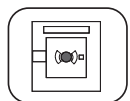




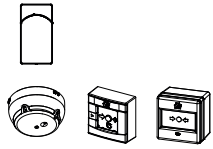
FMC-420RW-HSGRD  
 FMC-420RW-HSRRD  
 FMC-420RW-GFGRD  
 FMC-420RW-GFRRD  
 FMC-420RW-GSGRD  
 FMC-420RW-GSRRD









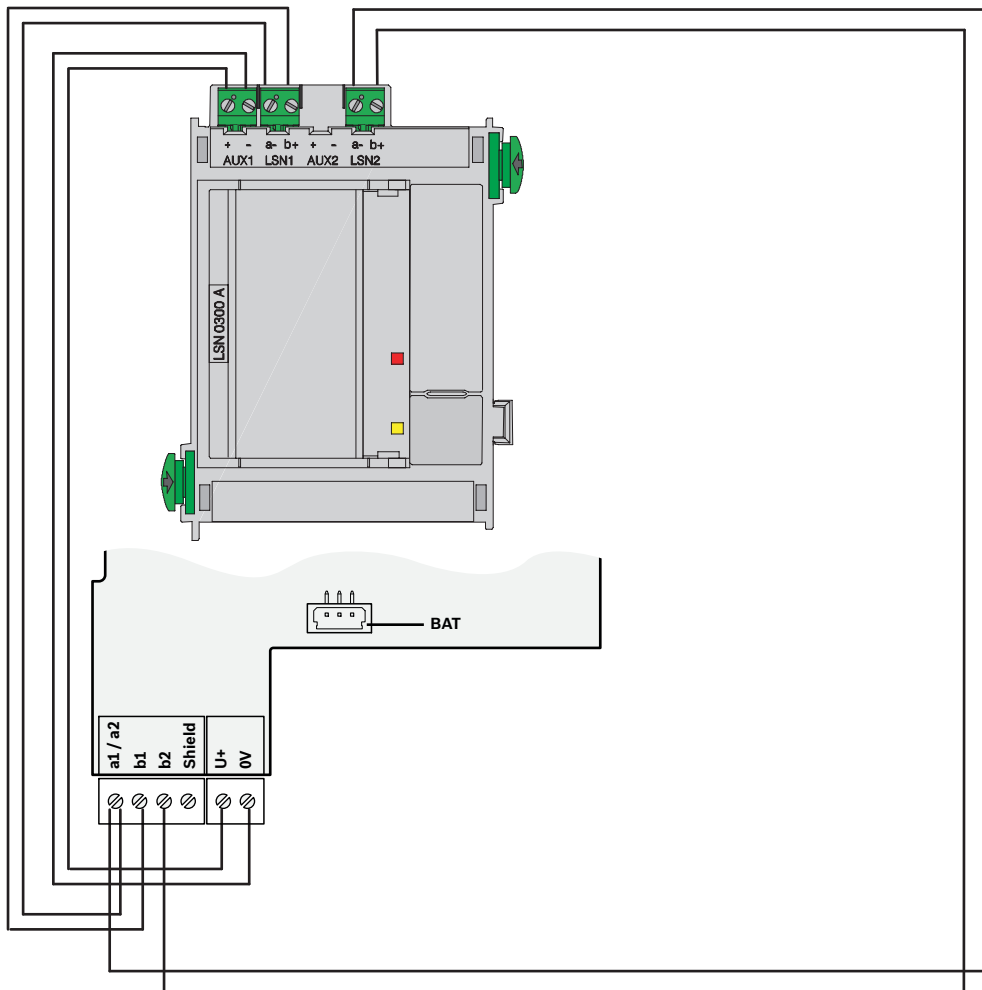
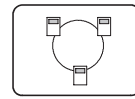


**FWI-270**

**FDOOT271-O**

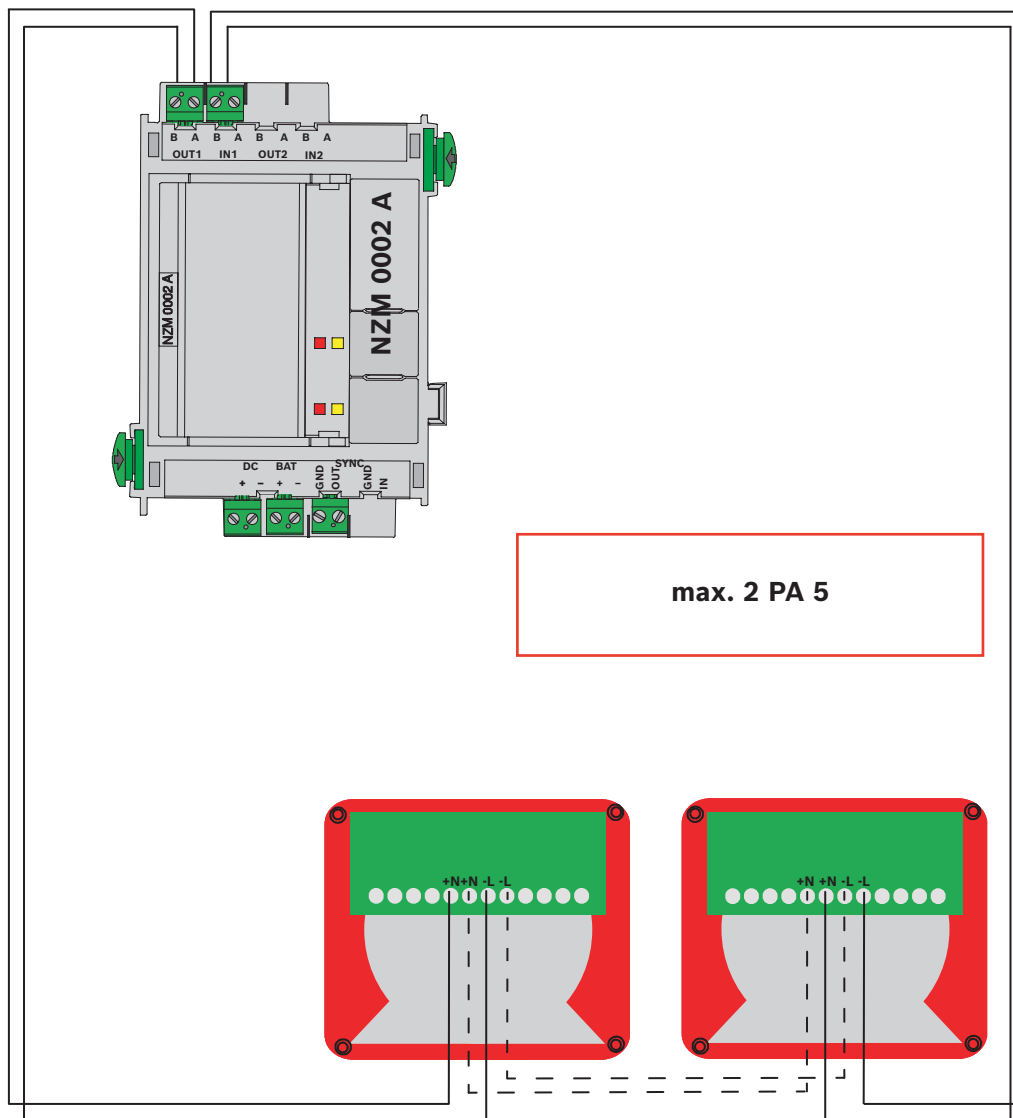
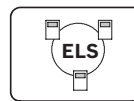
**FDM275-O**

**FDM273-O**

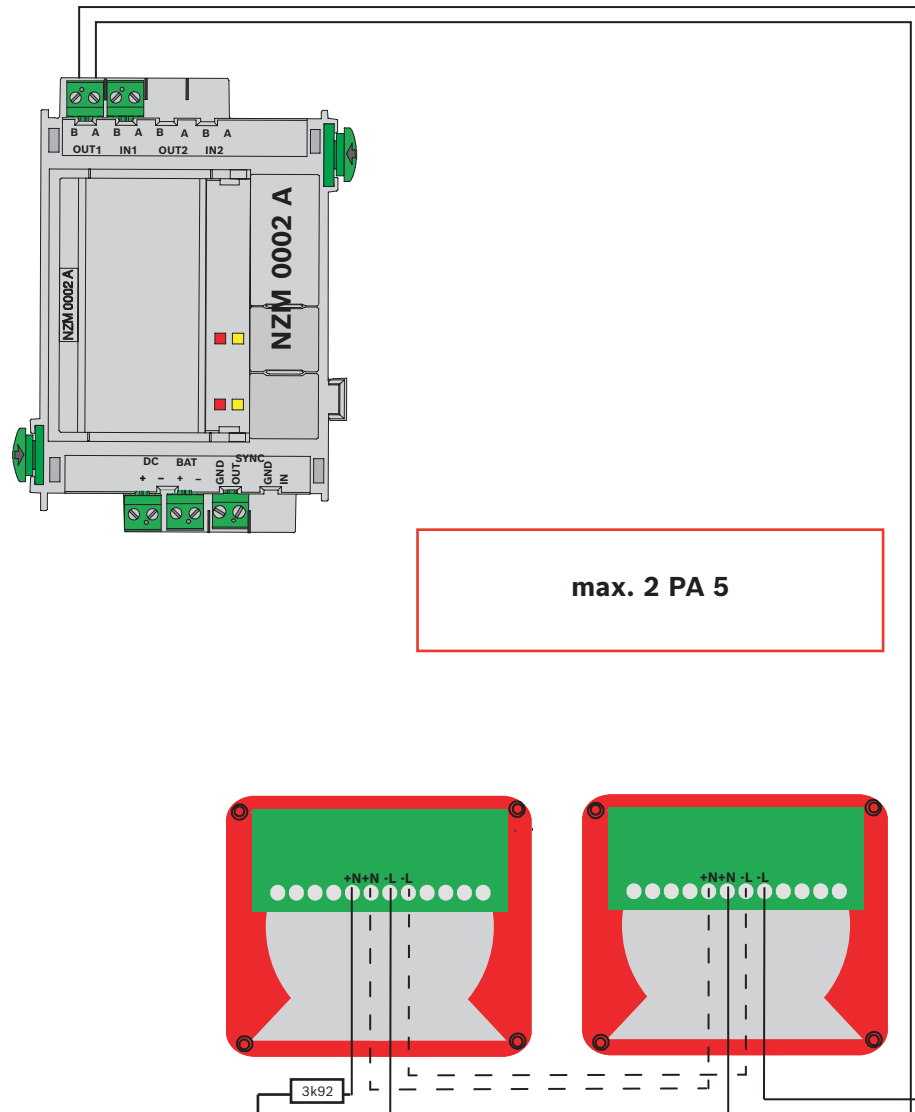
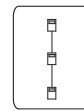


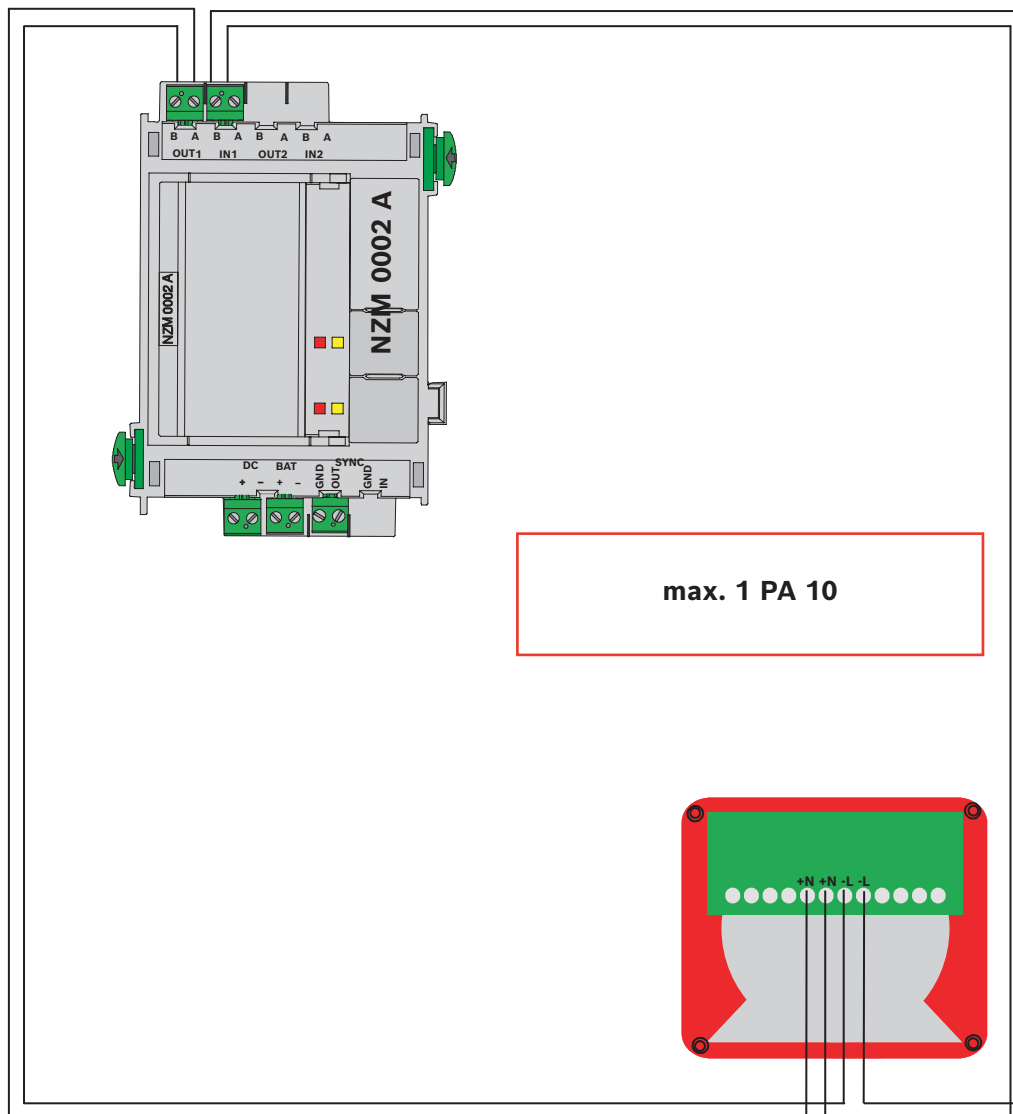
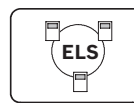
### 2.4.5

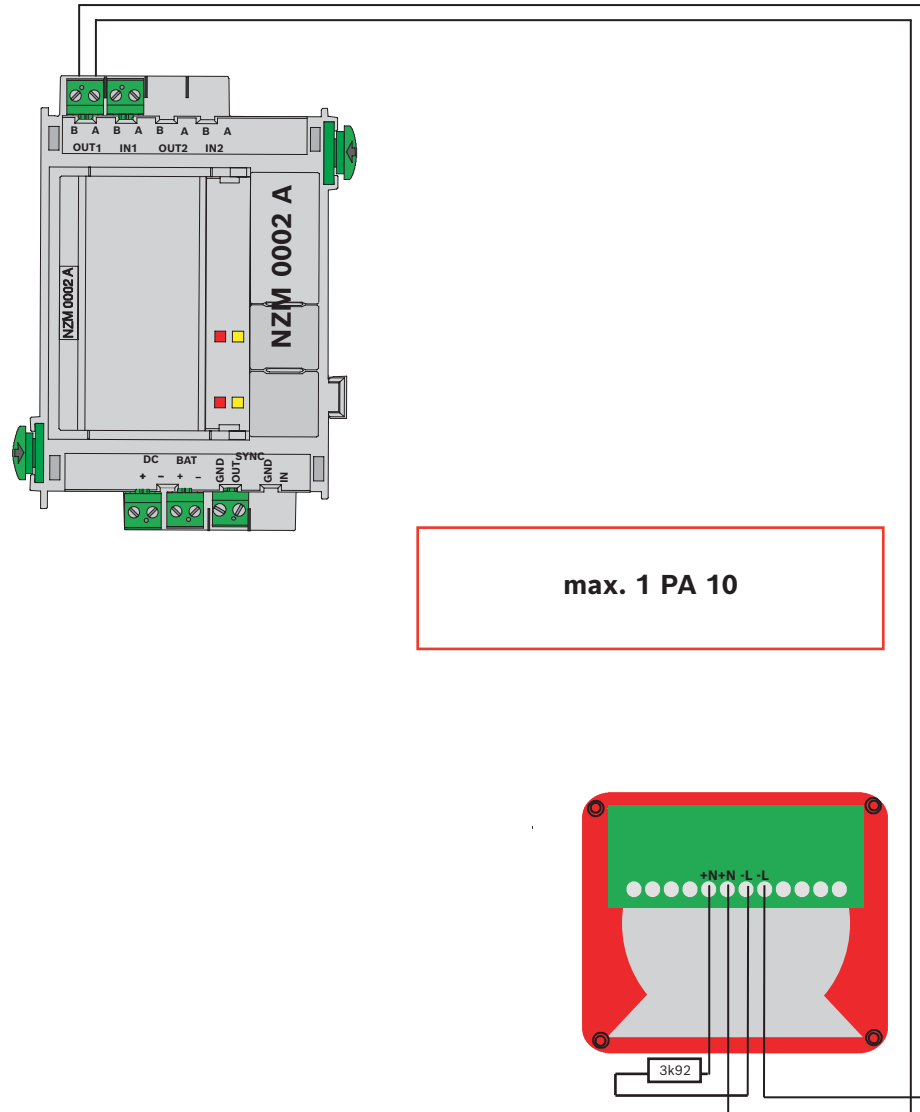
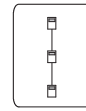
### NZM 0002 A

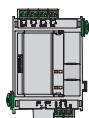
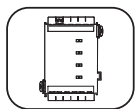


max. 2 PA 5

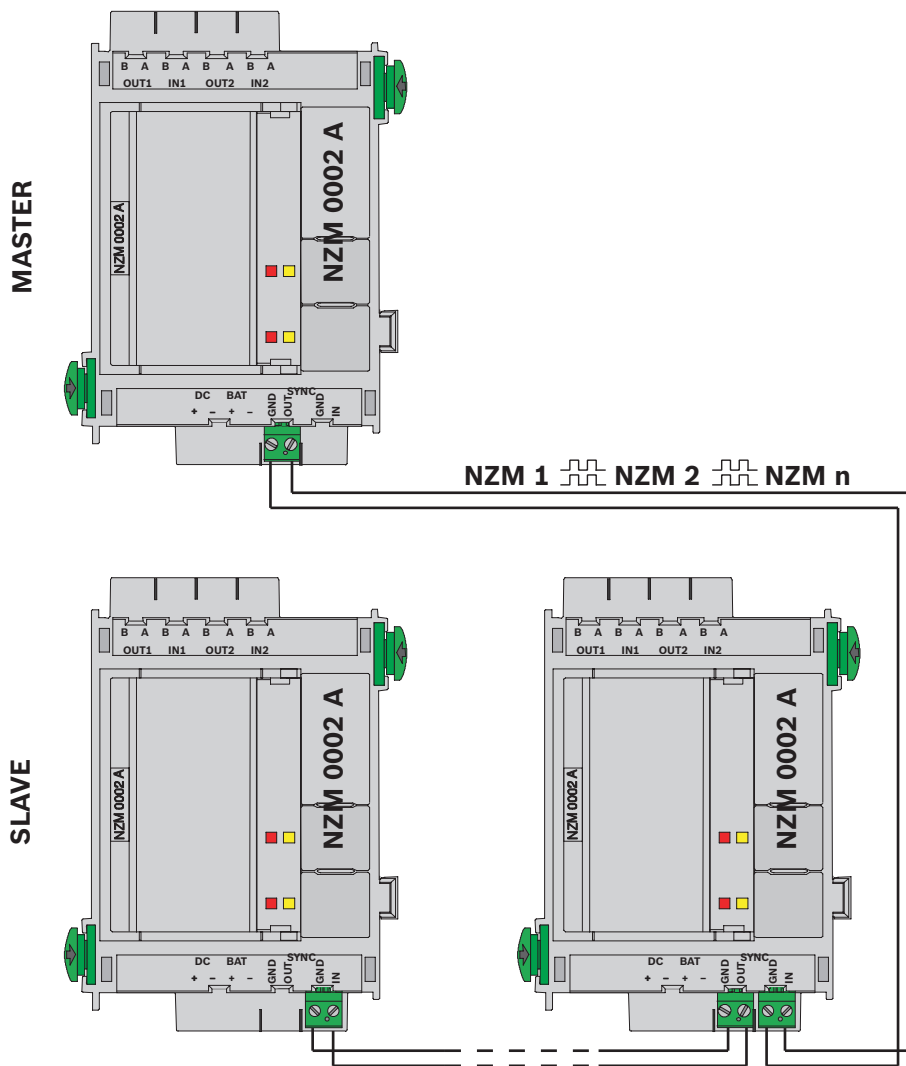


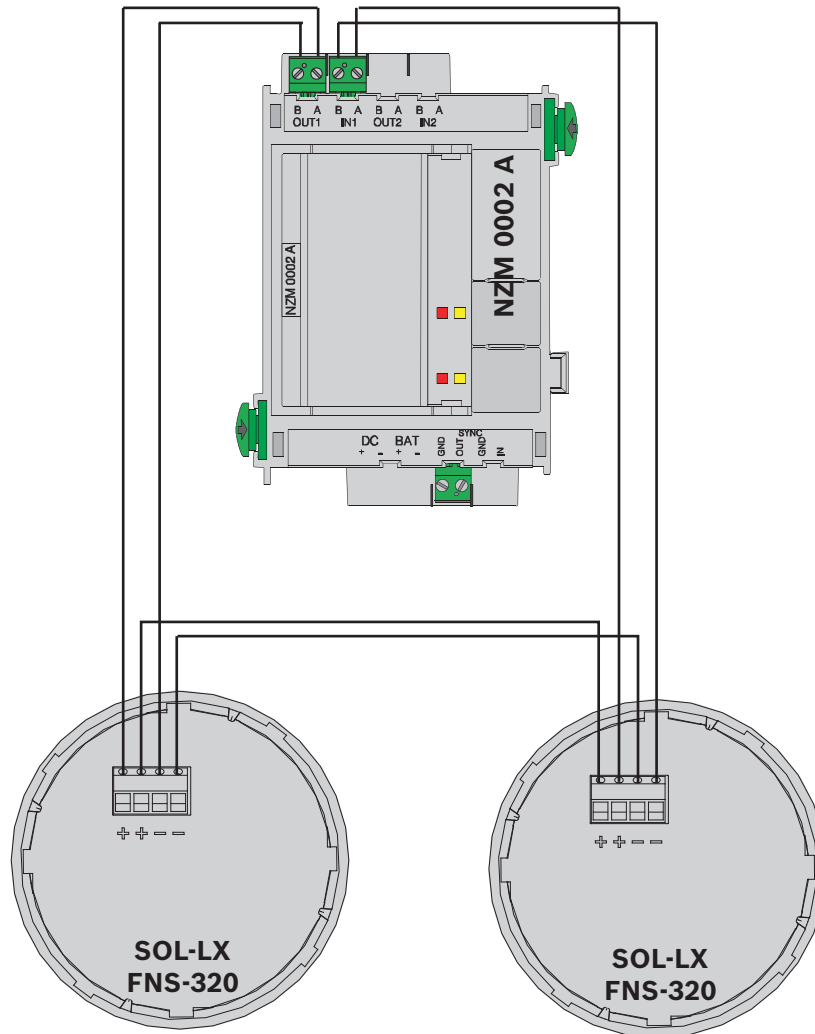
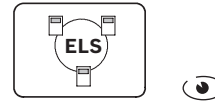


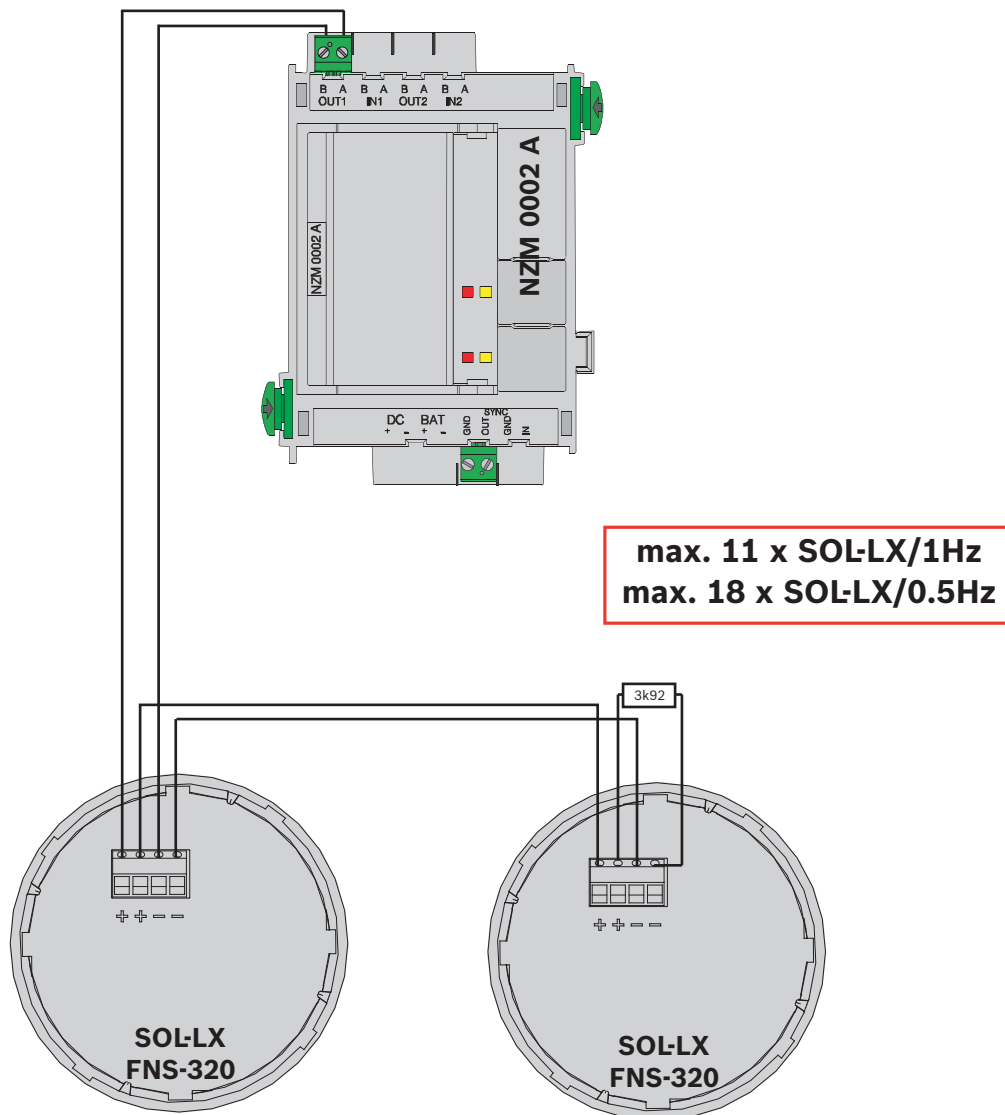
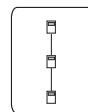




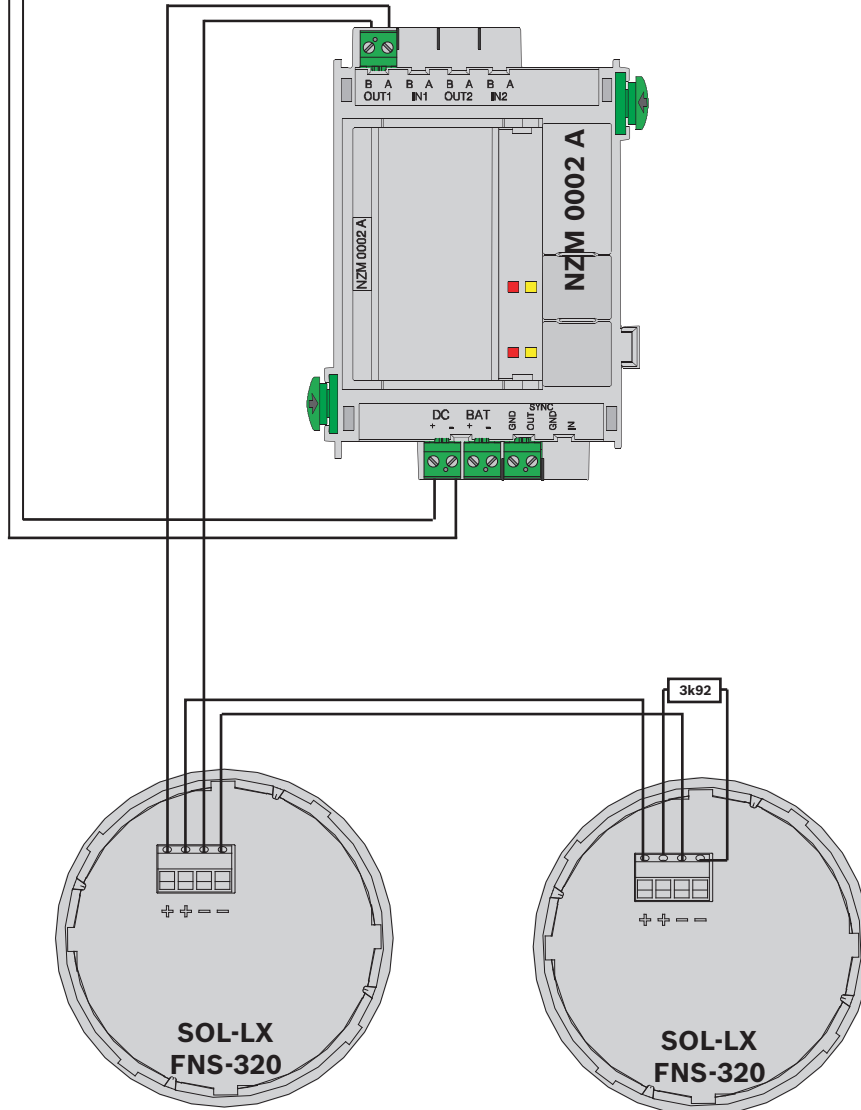
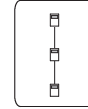
NZM 0002 A

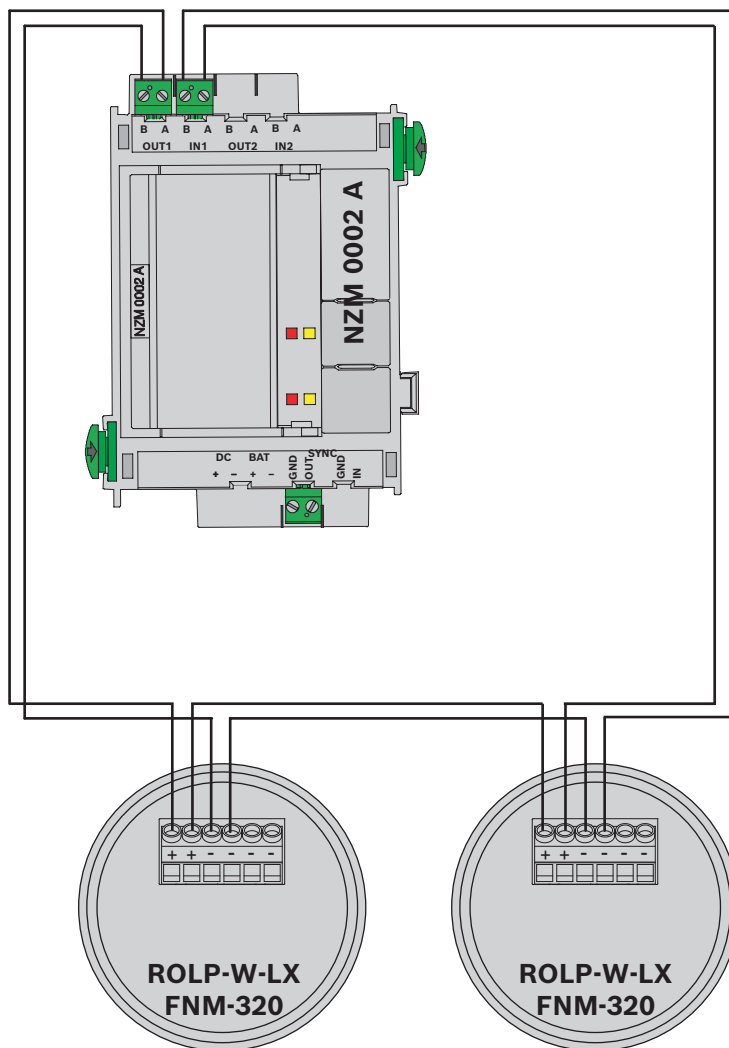
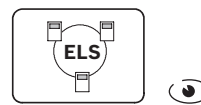


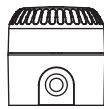




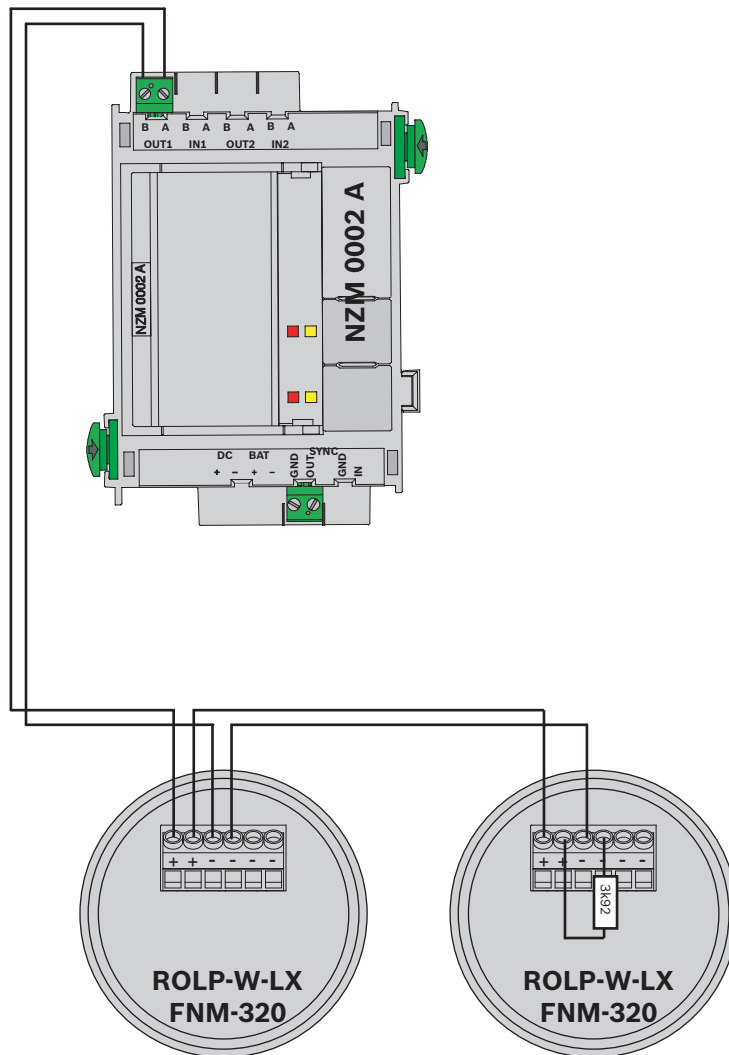
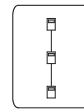






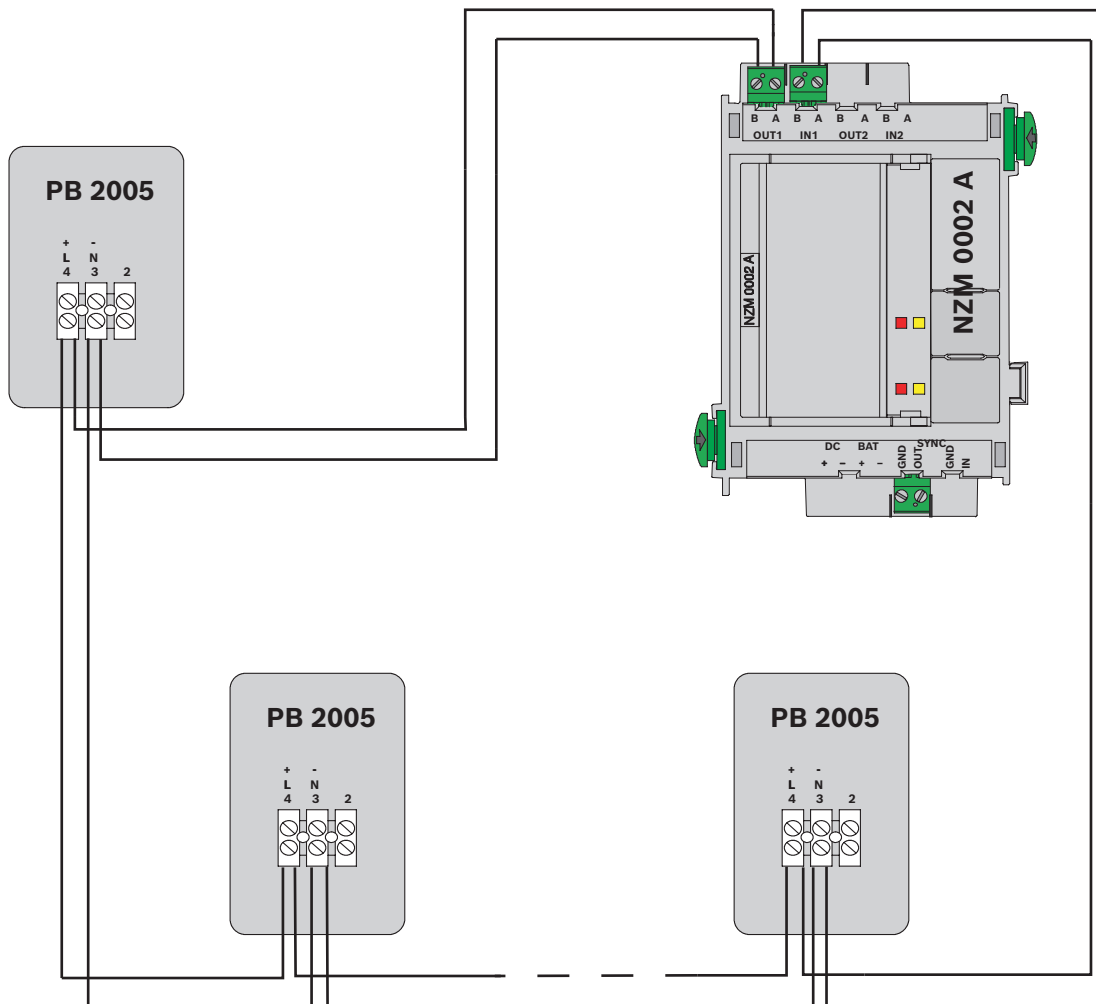
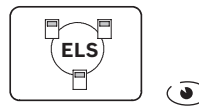


**ROLP-W-LX  
FNM-320**



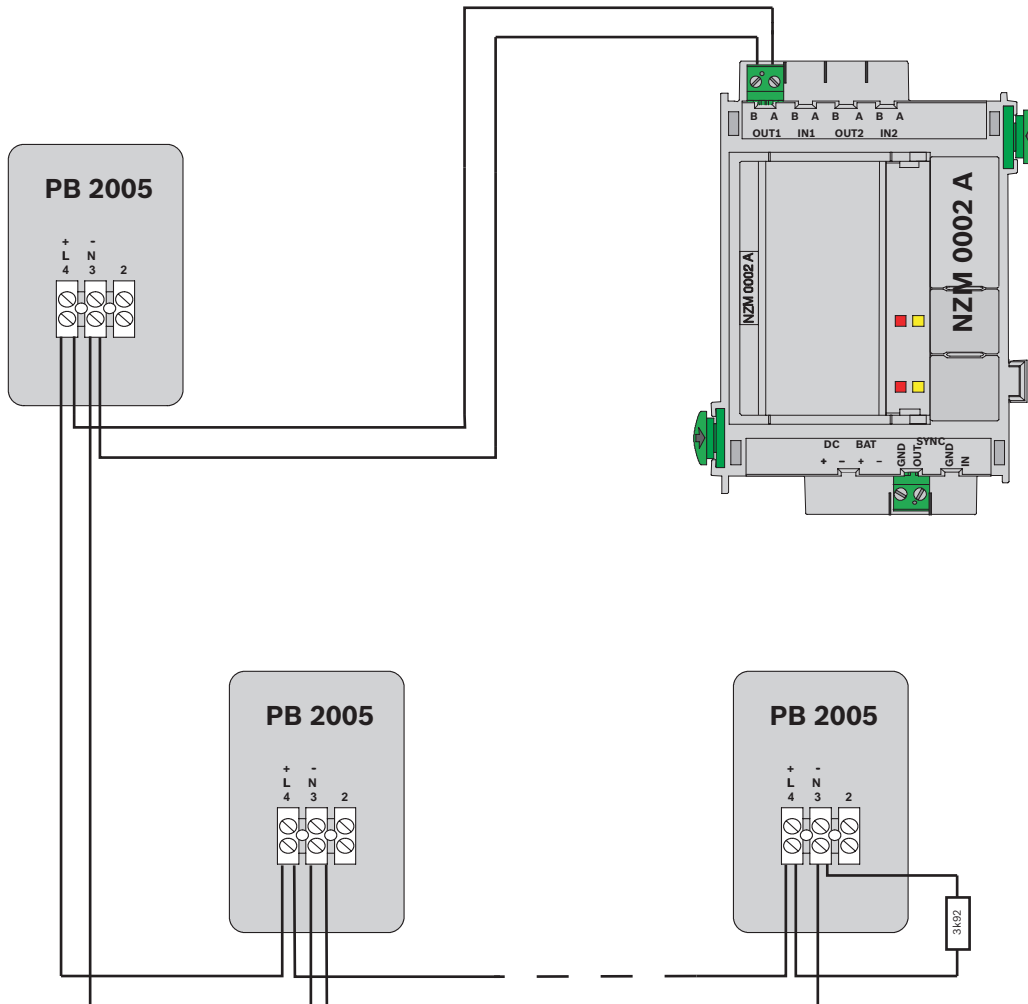
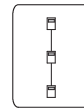


**PB 2005**



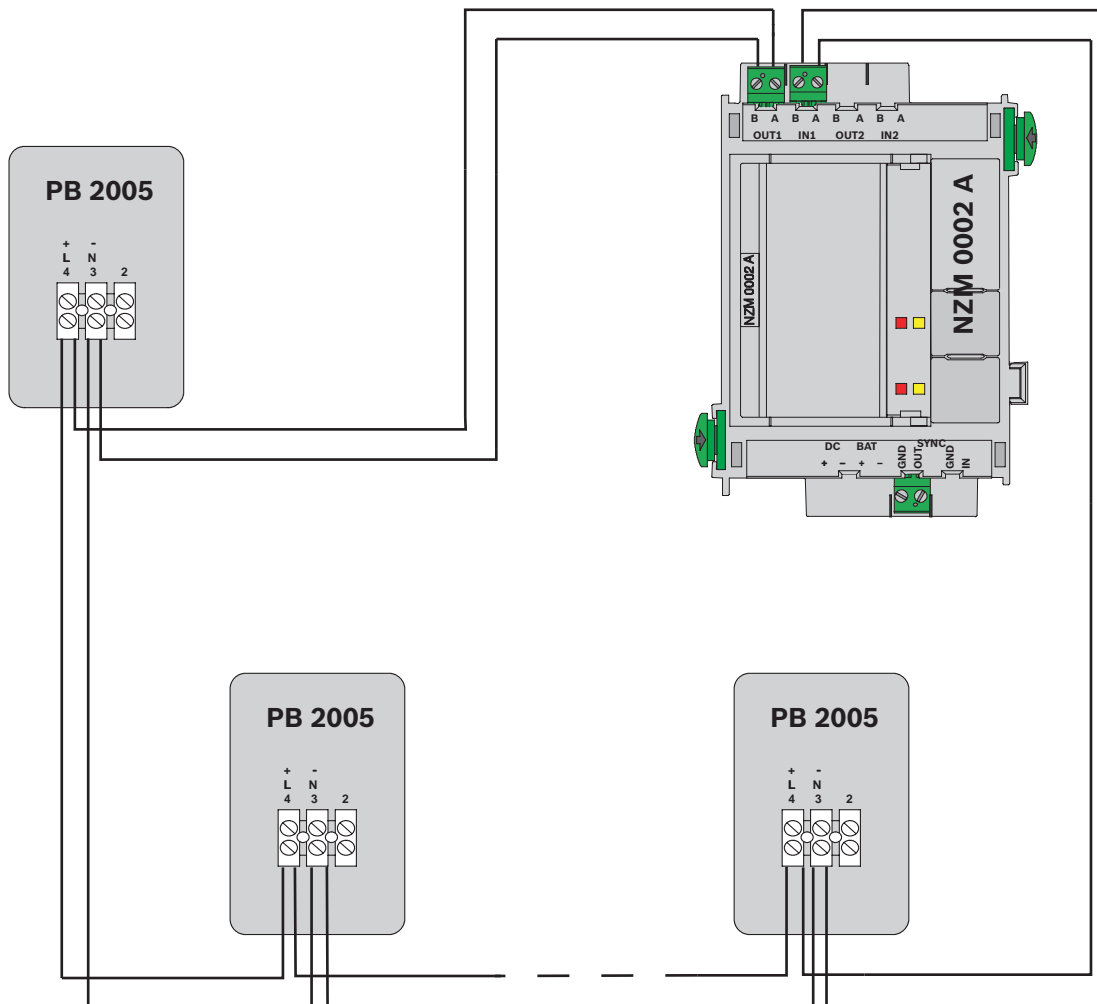
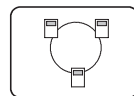


**PB 2005**



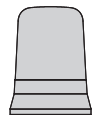


PB 2005

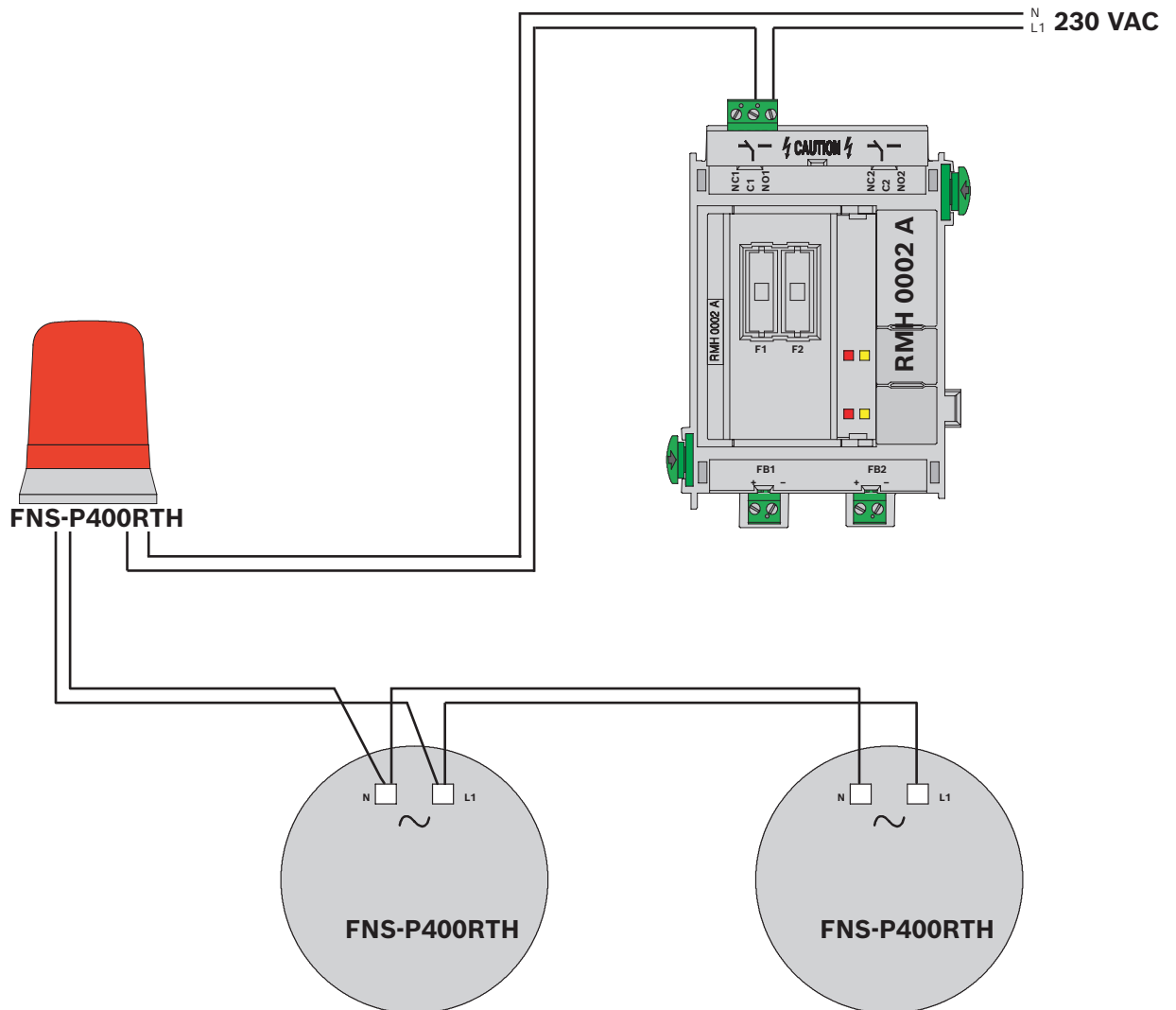
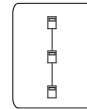


2.4.6

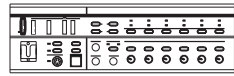
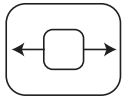
RMH 0002 A



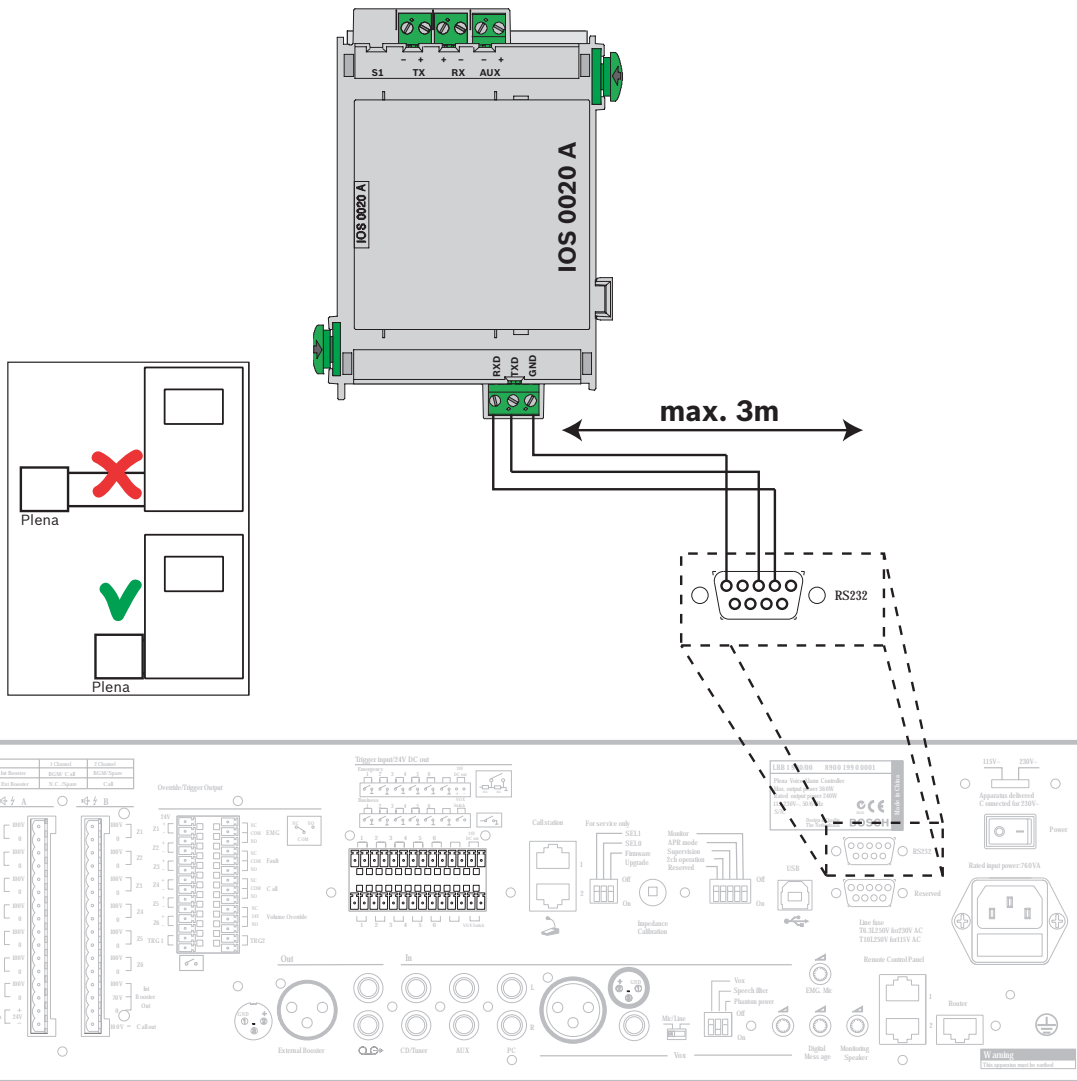
FNS-P400RTH



### 2.4.7 IOS 0020 A



Plena



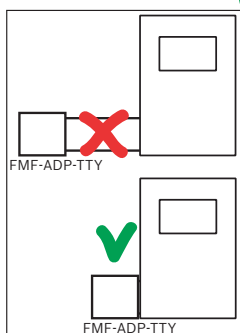
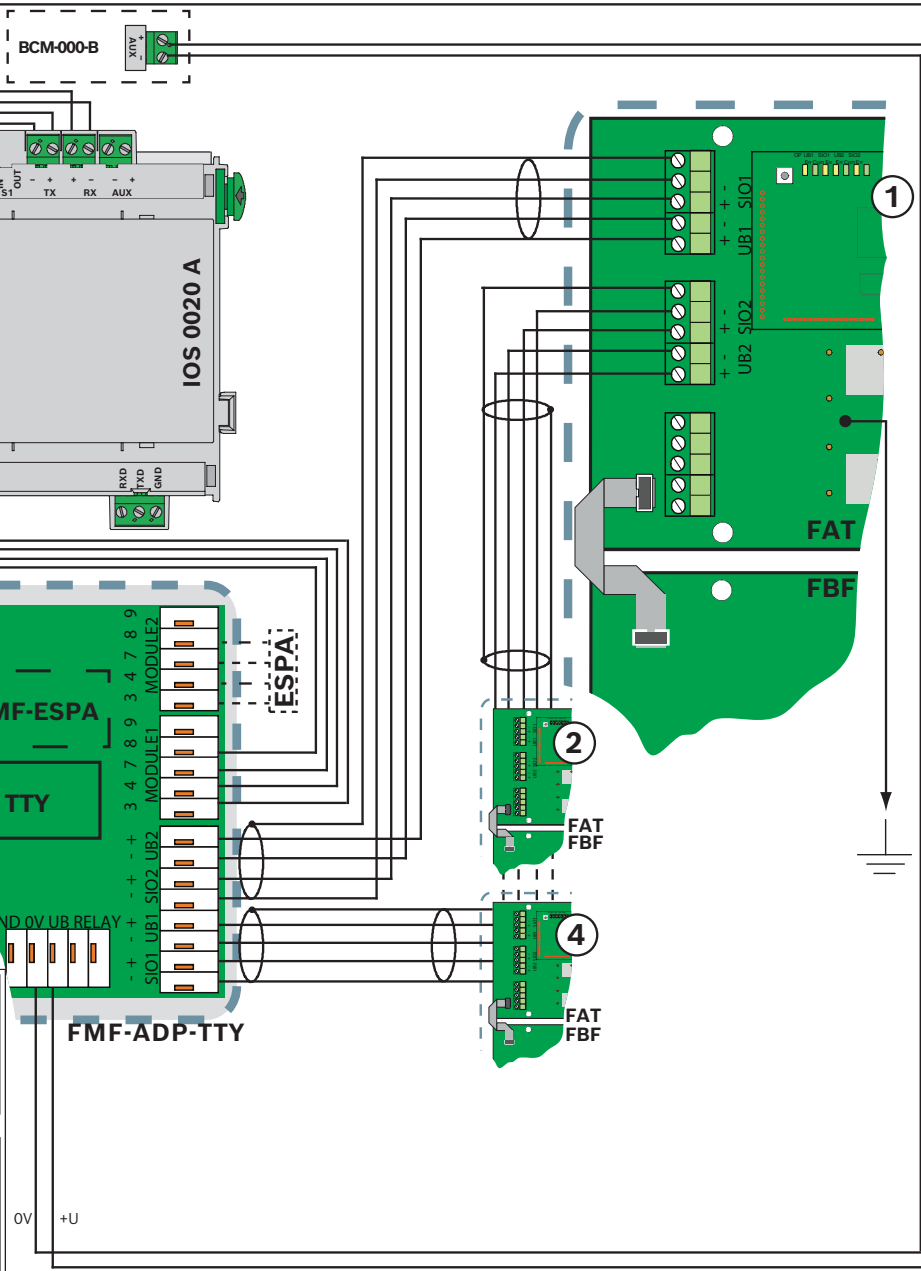




FAT4000 FBF4000 ADP4000

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

ELS

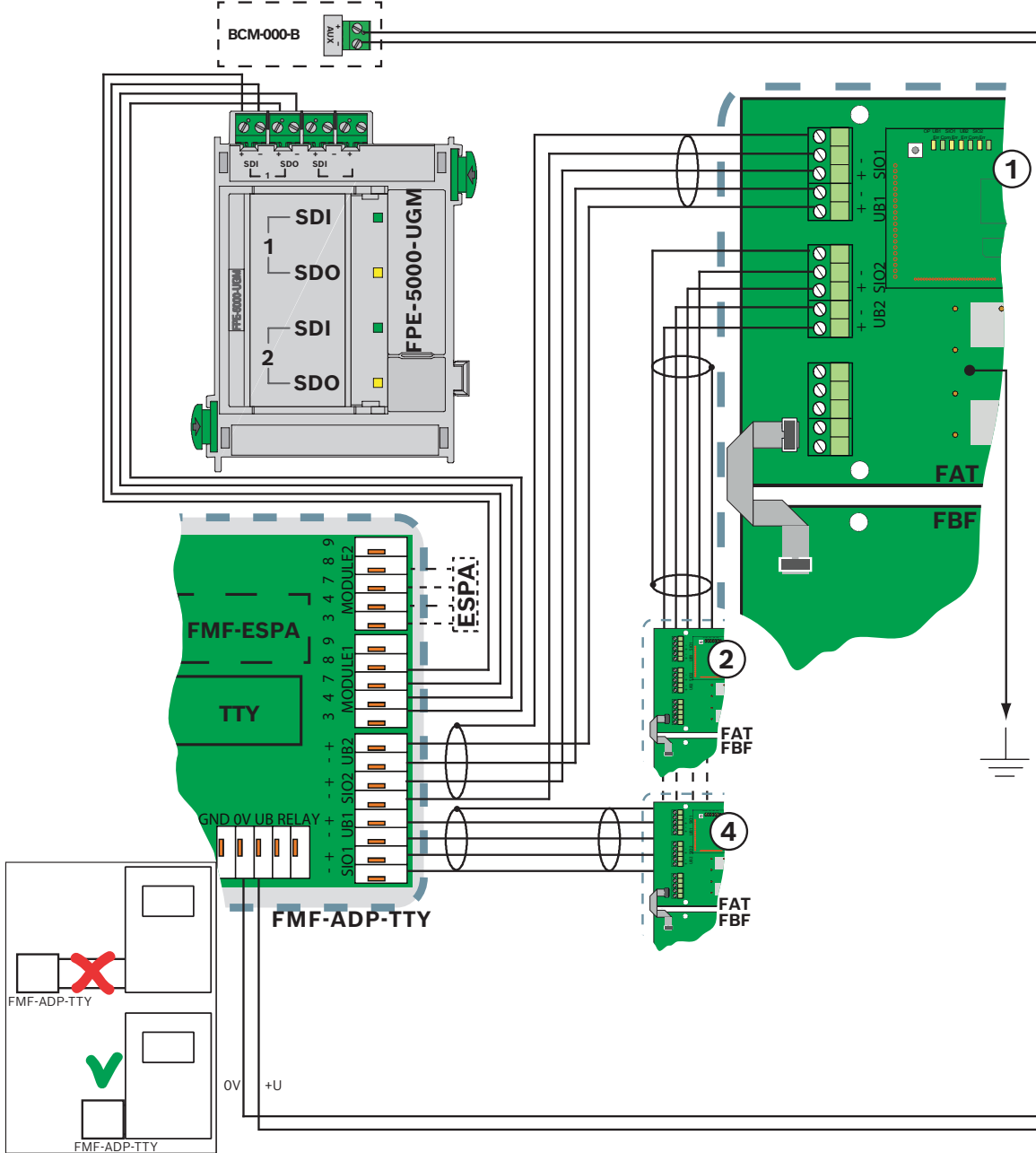


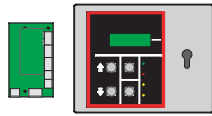
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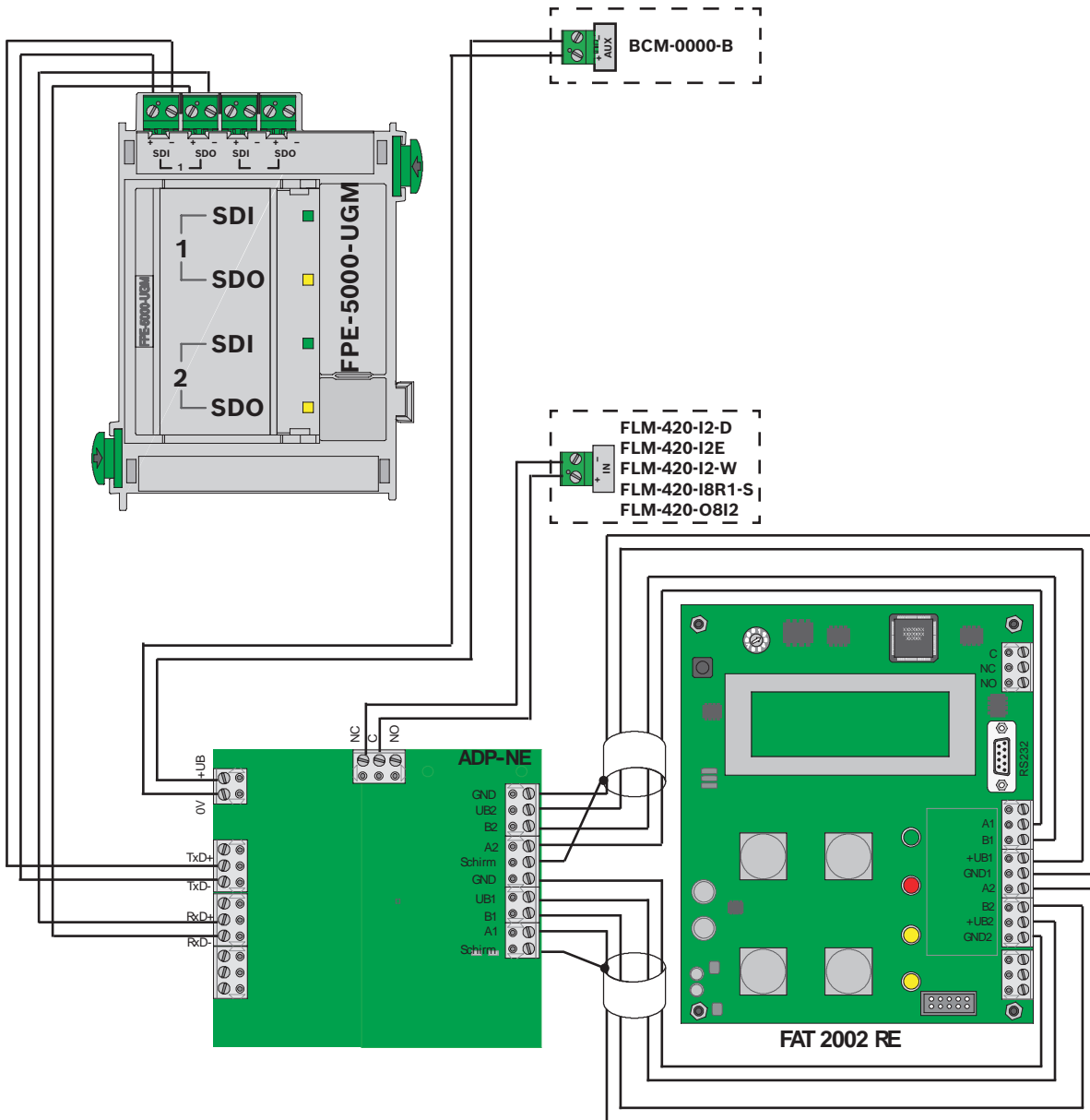
FAT4000 FBF4000 ADP4000  
 FMF-FAT FMF-FBF-FAT  
 FMF-FIBS-A4/-A3  
 FMF-ADP

ELS





**FAT2002RE  
ADP-NE**



## 2.5

### Interface Modules



*FLM-420-4/CON-D/S, Strona 125*

*FLM-420-I8R1-S, Strona 158*

*FLM-420-NAC-D/S, Strona 160*

*FLM-420-RHV, Strona 172*

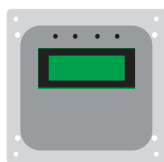
*FLM-420-RLE-S, Strona 184*

*FLM-420-RLV1-E, Strona 185*

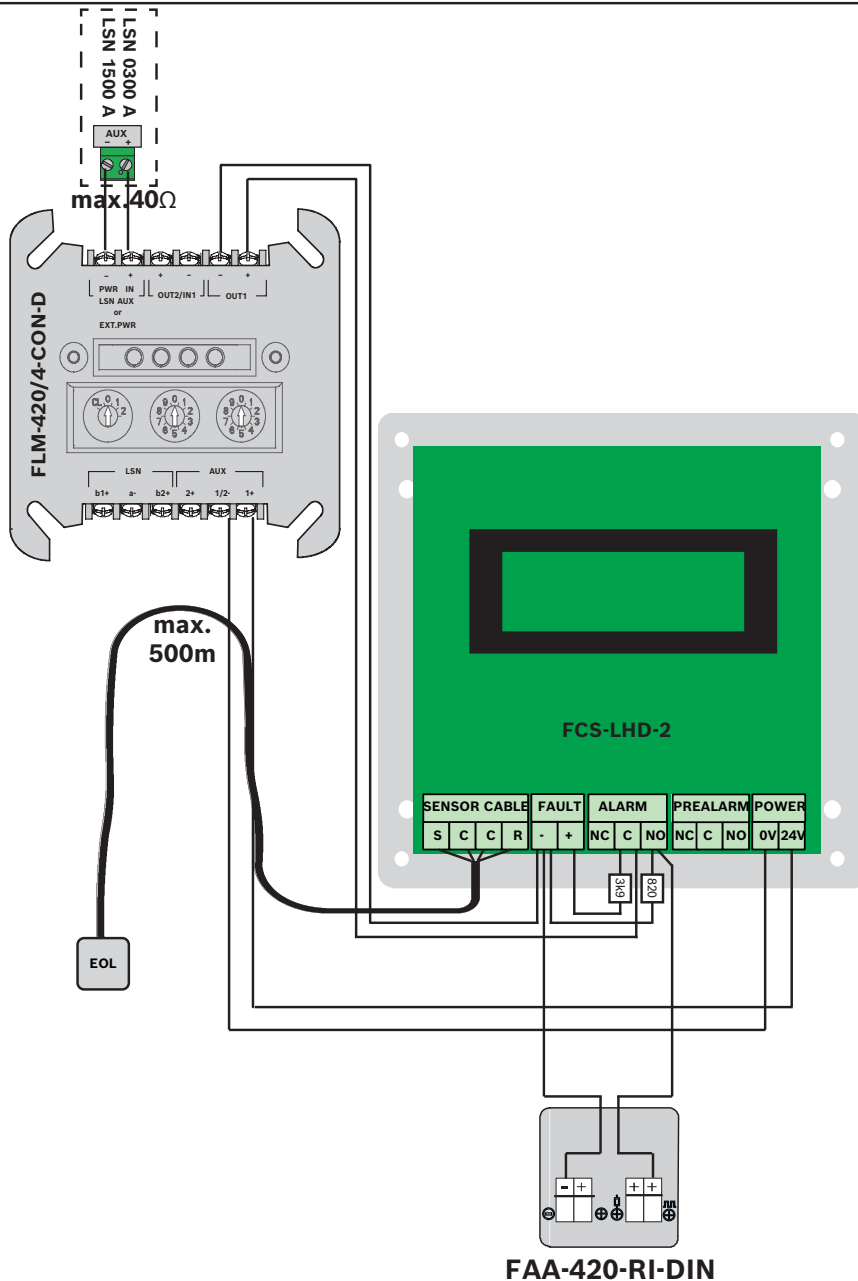
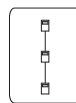
*FLM-420-RLV8-S, Strona 186*

*FMF-ADP-FBF/FMF-ADP-TTY, Strona 187*

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

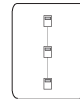


ALARMLINE II



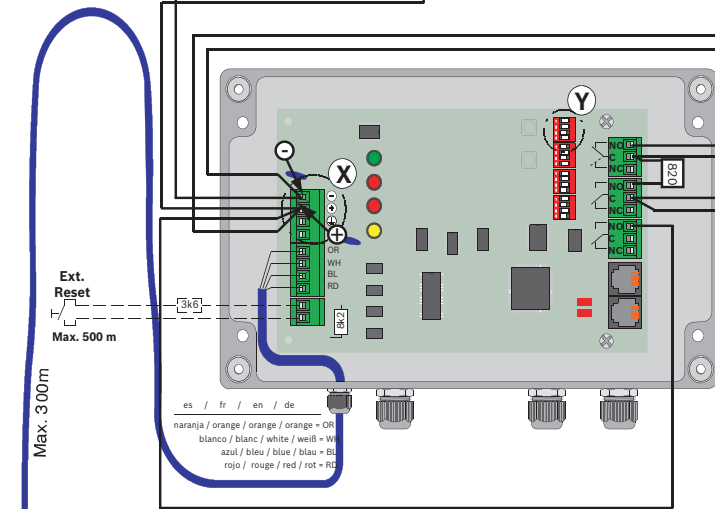
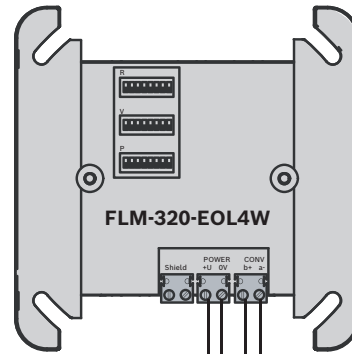
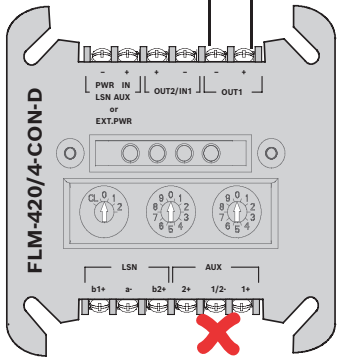


FCS-LWM-1



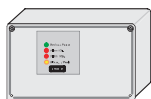
ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A

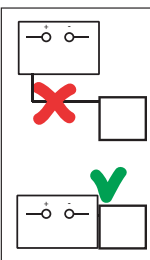
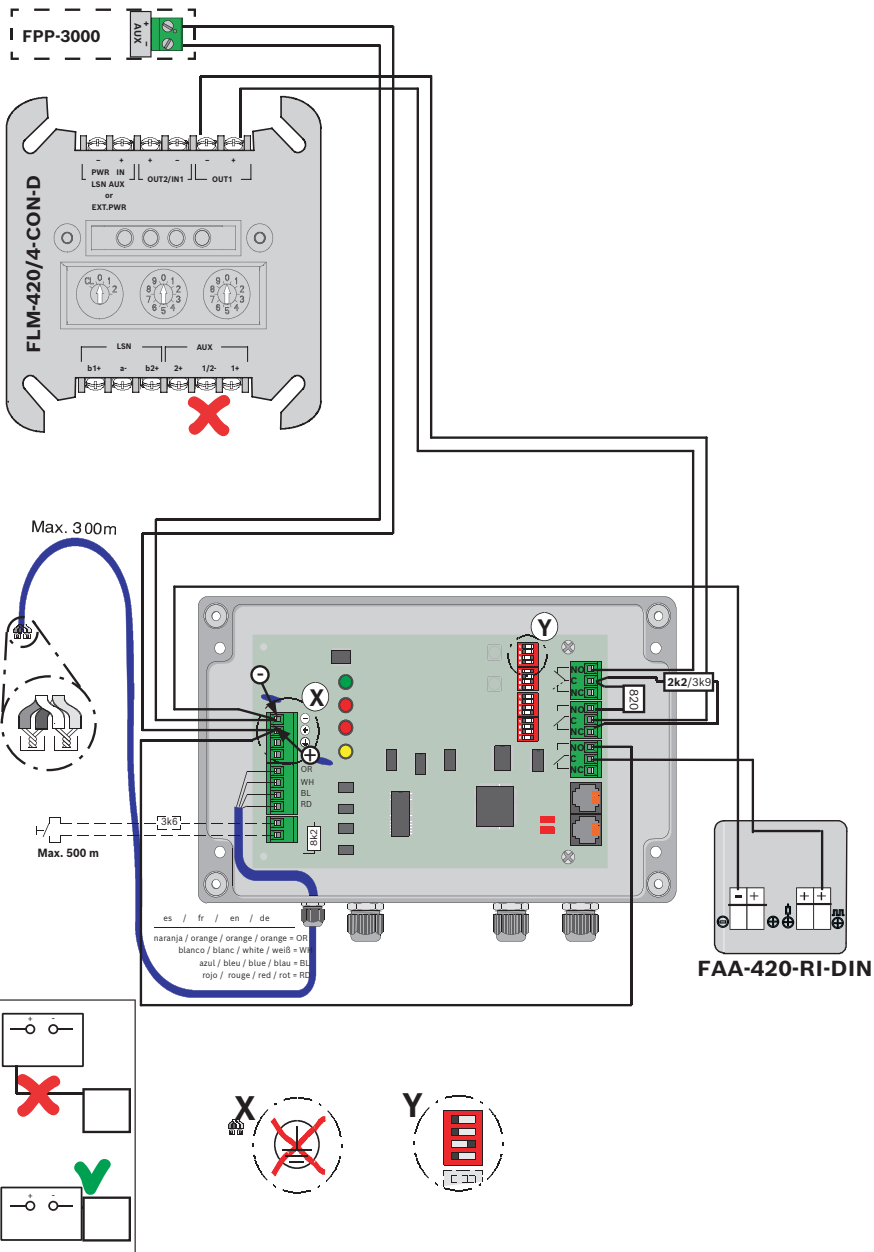


es / fr / en / de  
naranja / orange / orange / orange = OR  
blanco / blanc / white / weiß = WH  
azul / bleu / blue / blau = BL  
rojo / rouge / red / rot = RE





FCS-LWM-1

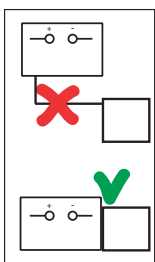
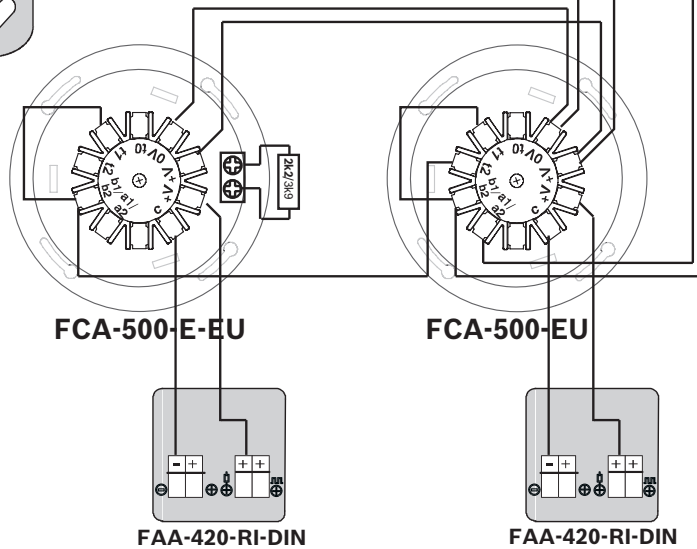
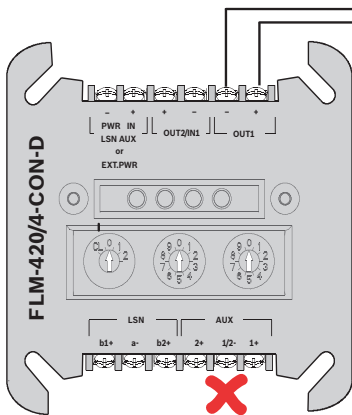


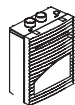






FCA-500-EU  
 FCP-O 500  
 FCP-O 500-P  
 FCP-OC 500  
 FCP-OC 500-P

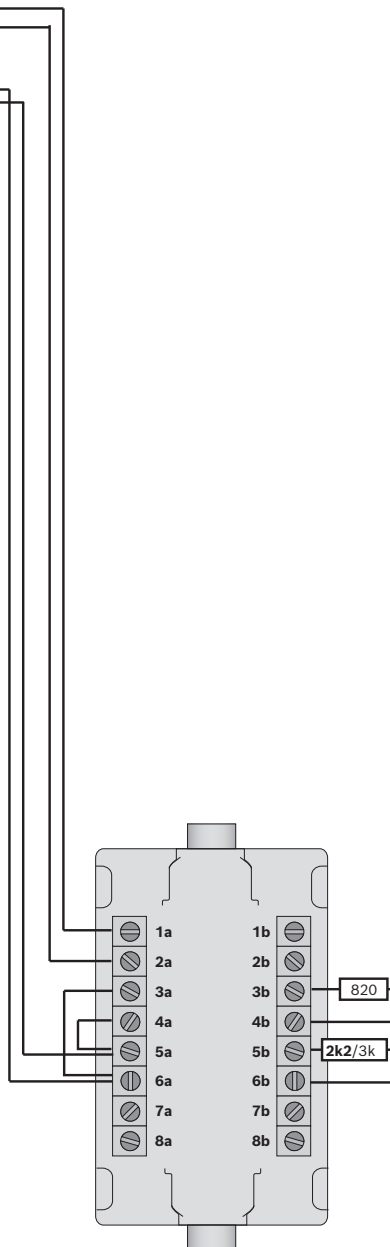
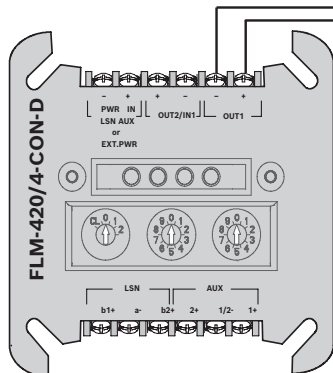


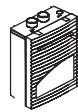


FCS-320-TM Series

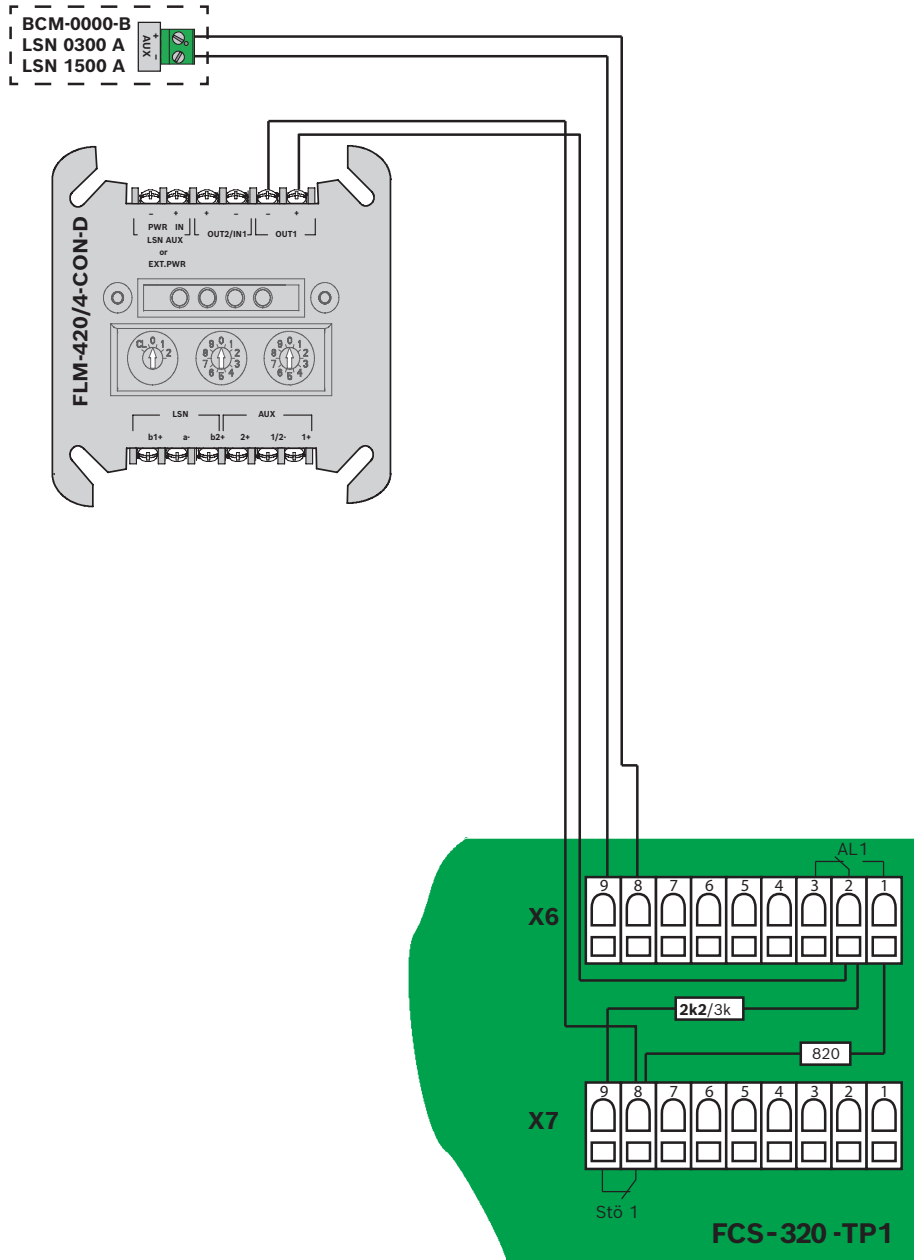
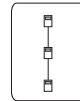


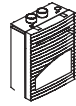
BCM-0000-B  
LSN 0300 A  
LSN 1500 A



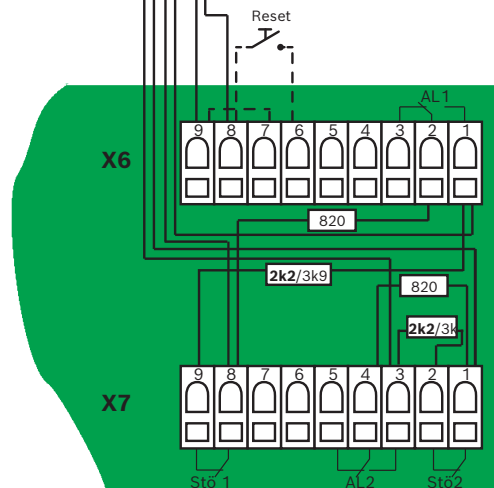
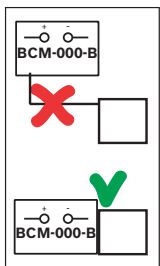
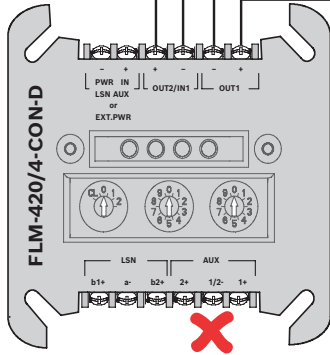
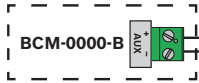


FCS-320-TP Series

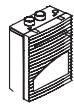




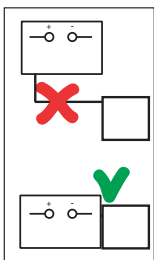
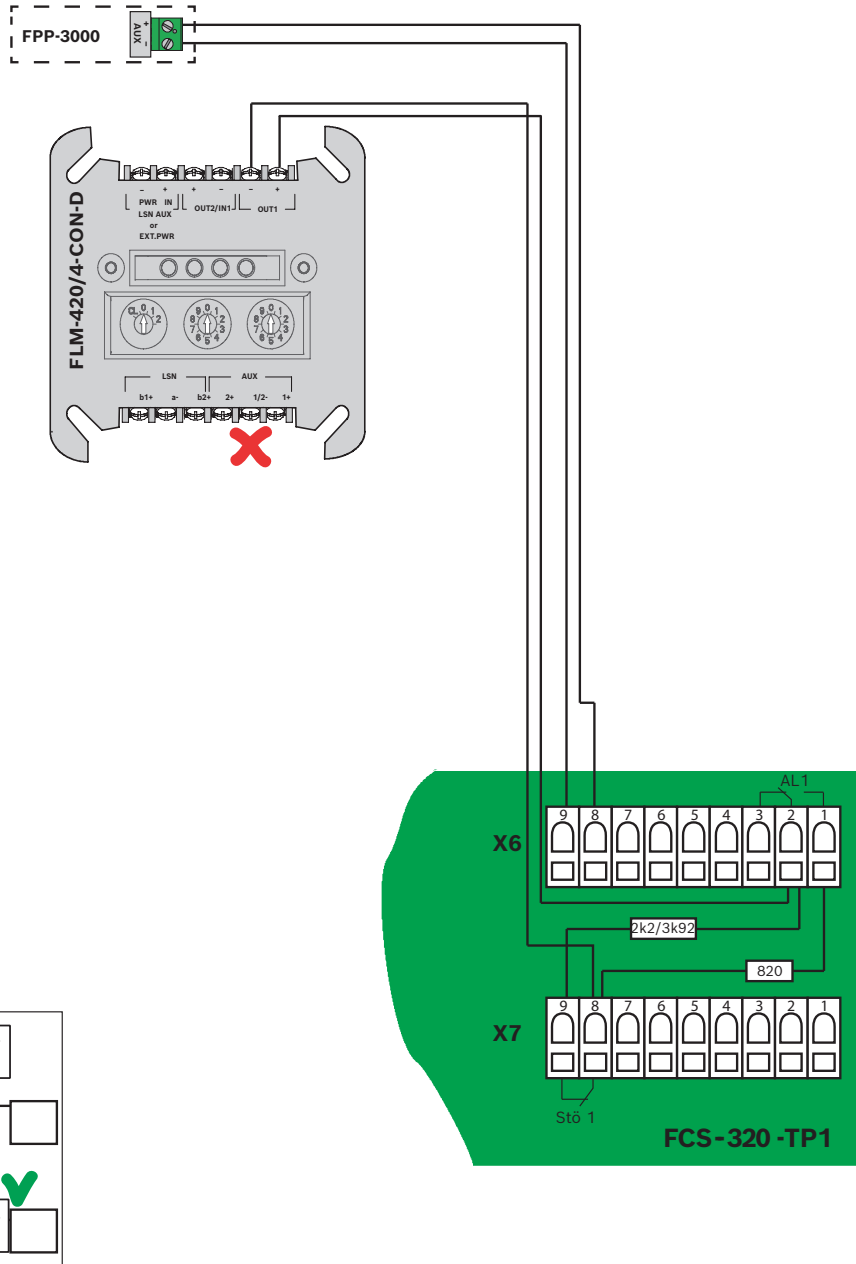
FCS-320-TP Series

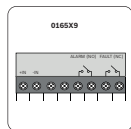


FCS-320-TP2

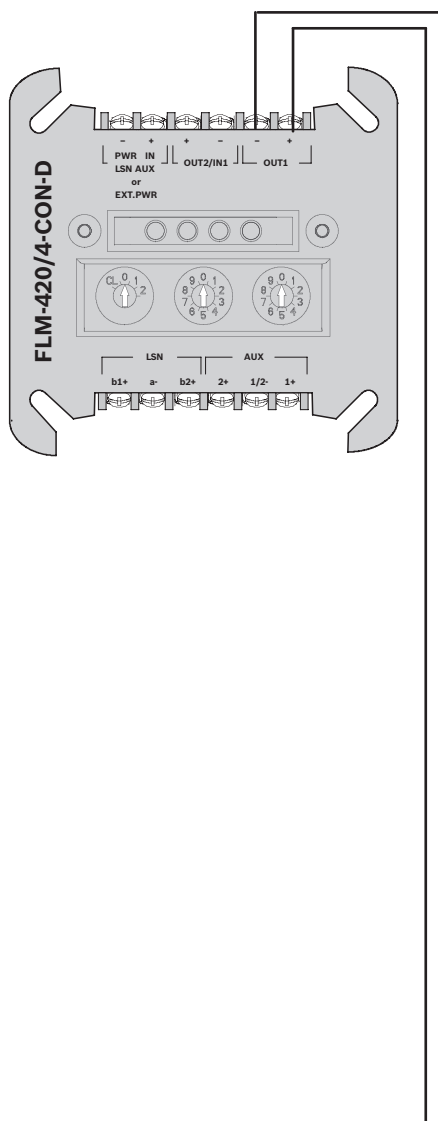
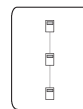


FCS-320-TP1

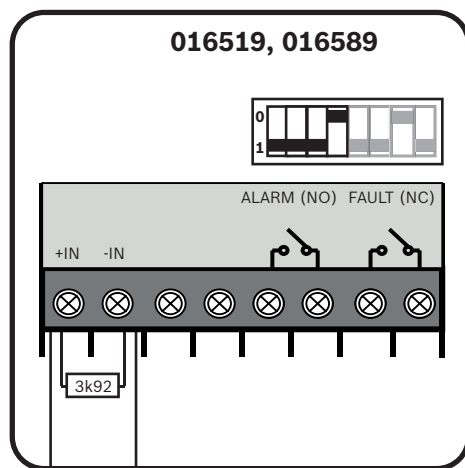


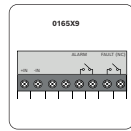


**016519, 016589  
IR3 Flame Detector**

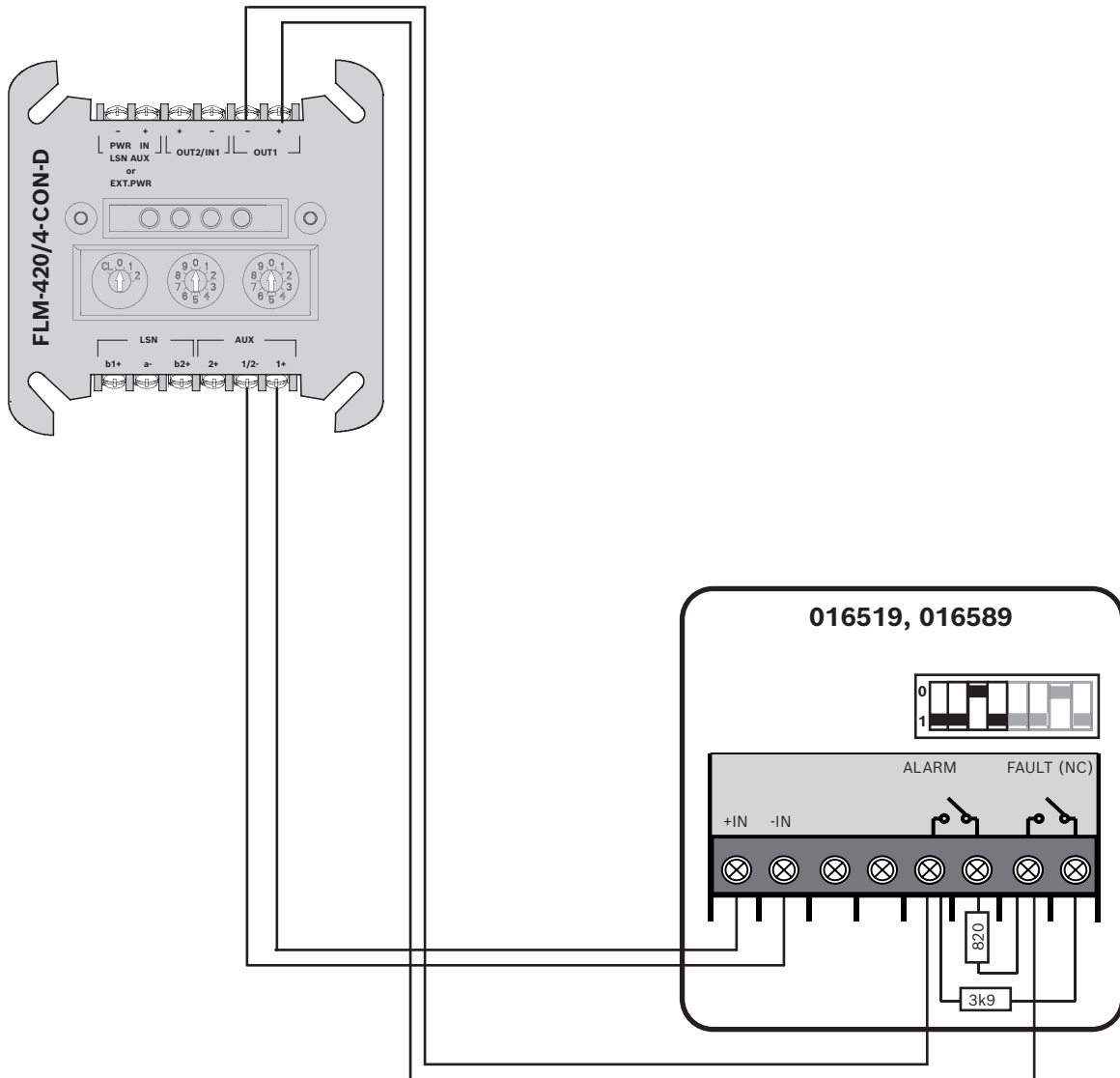
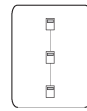


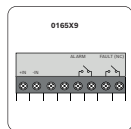
**max. 1 x 0165X9**



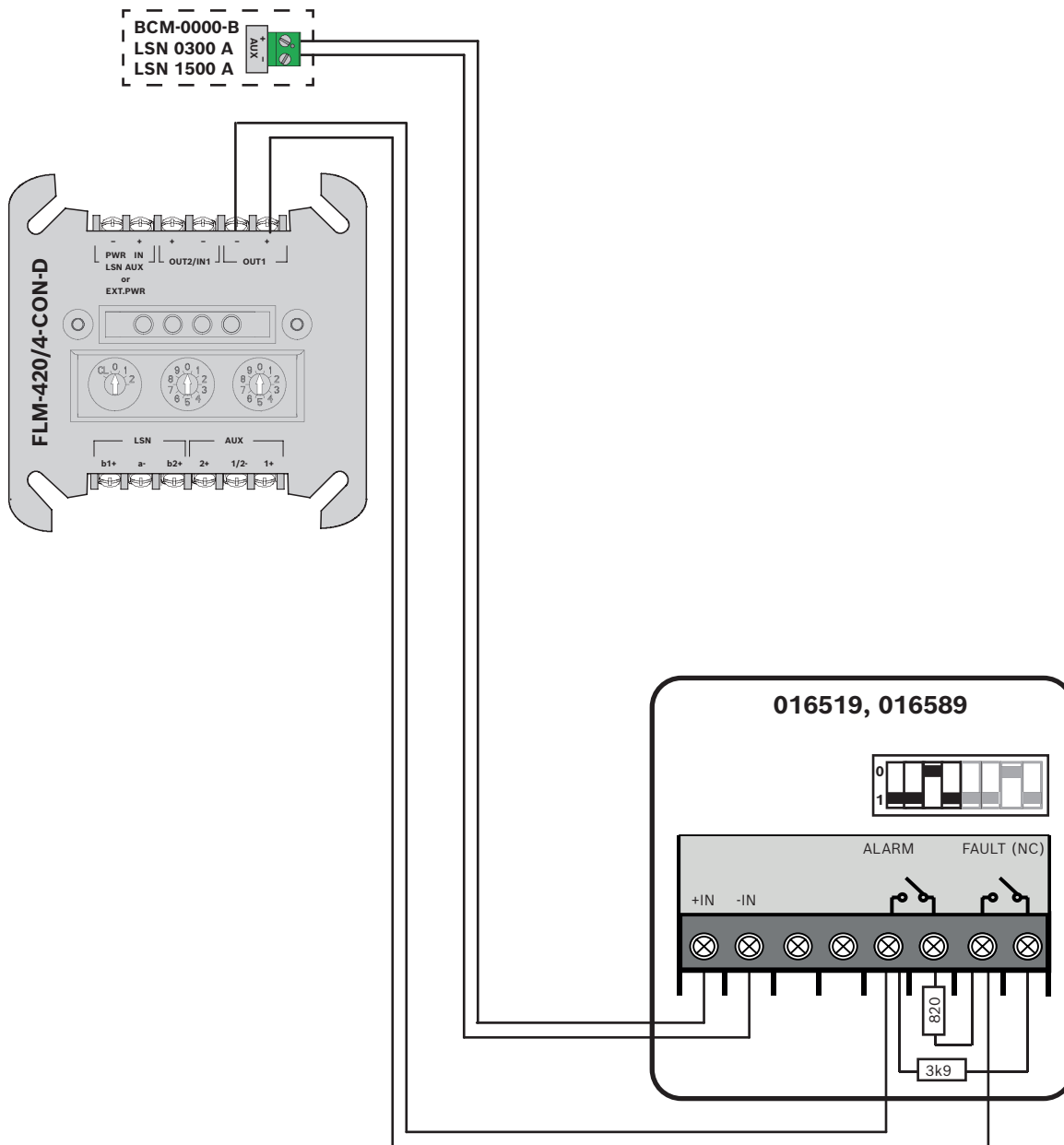
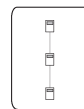


**016519, 016589**  
**IR3 Flame Detector**

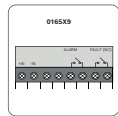




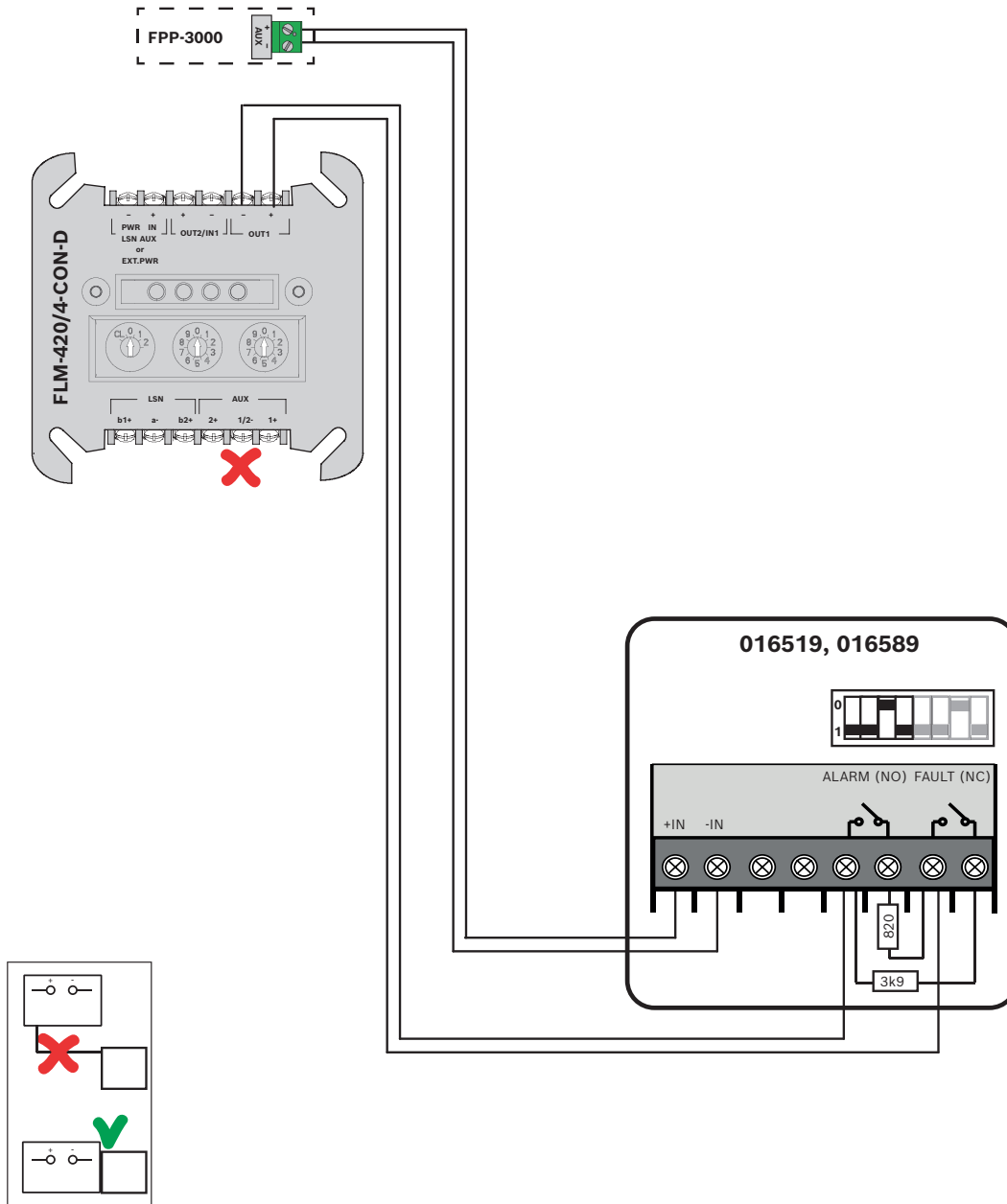
**016519, 016589  
IR3 Flame Detector**





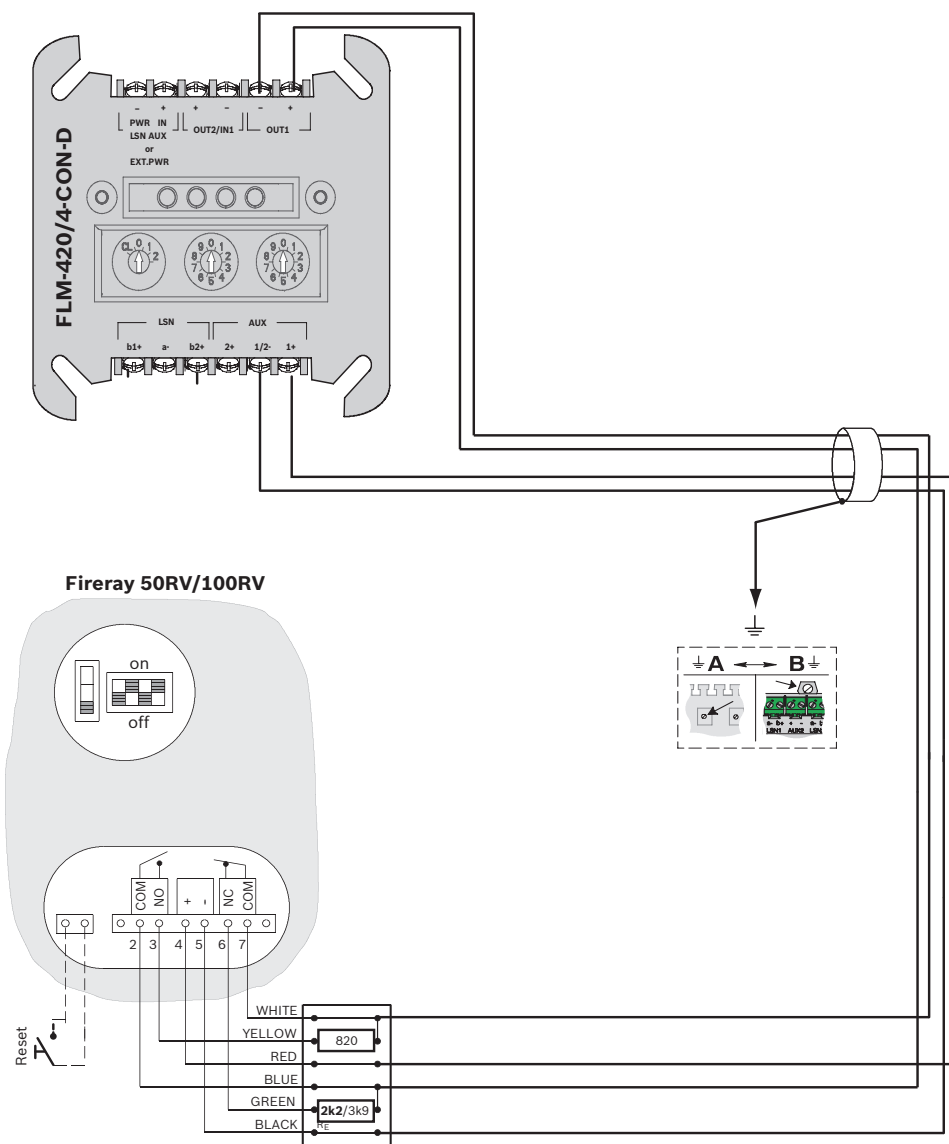


**016519, 016589  
IR3 Flame Detector**





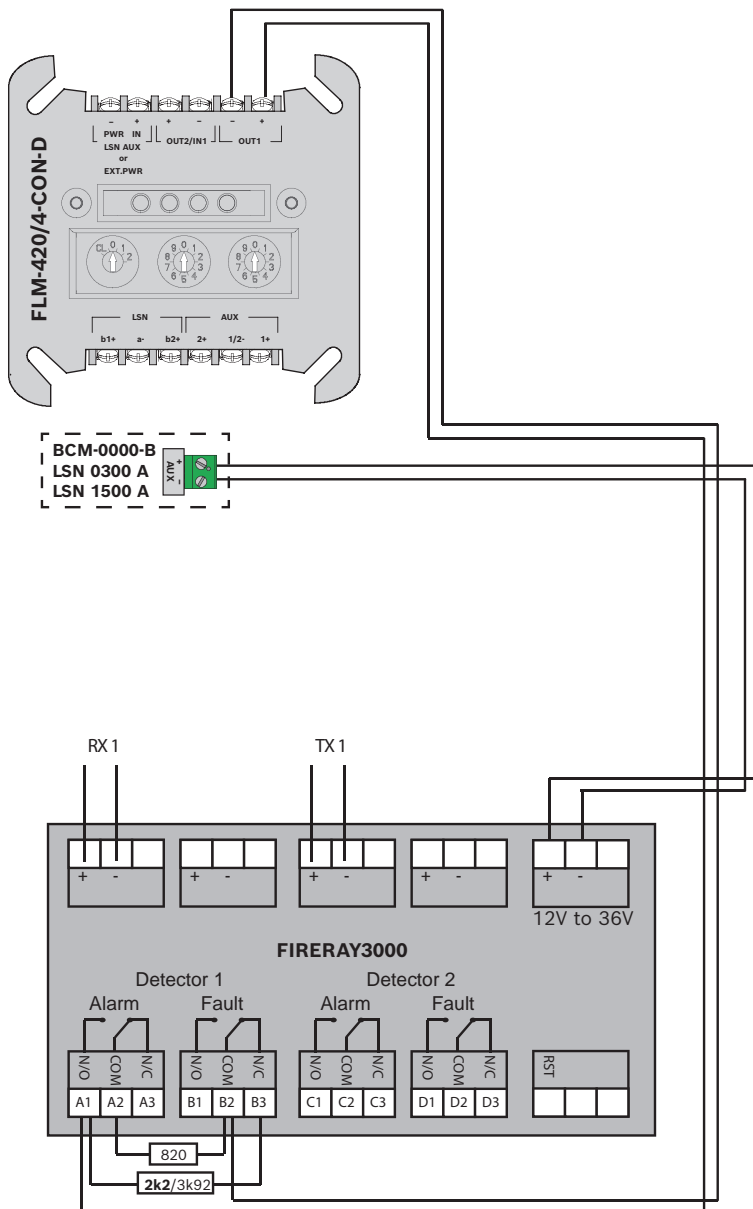
**Fireray 50RV  
Fireray 100RV**





**FIRERAY3000**

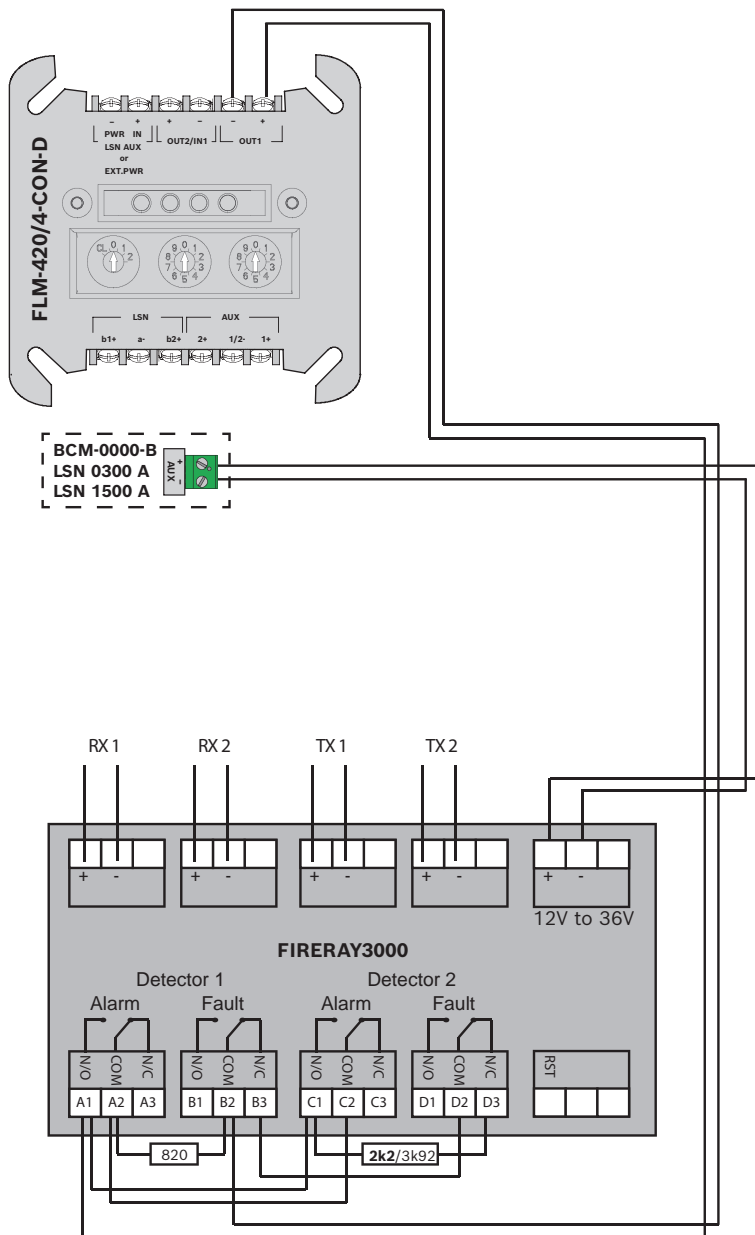
1 x





**FIRERAY3000**

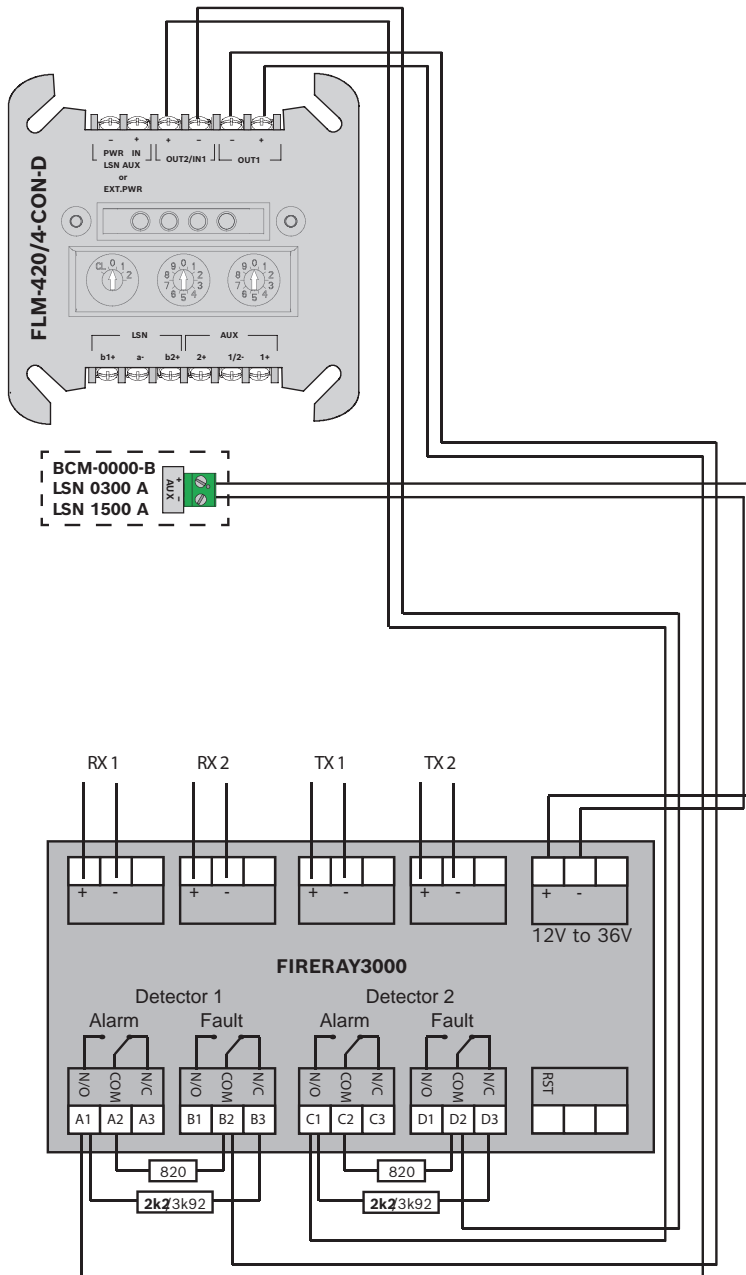
**2 x** **OUT1**

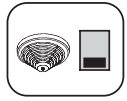




**FIRERAY3000**

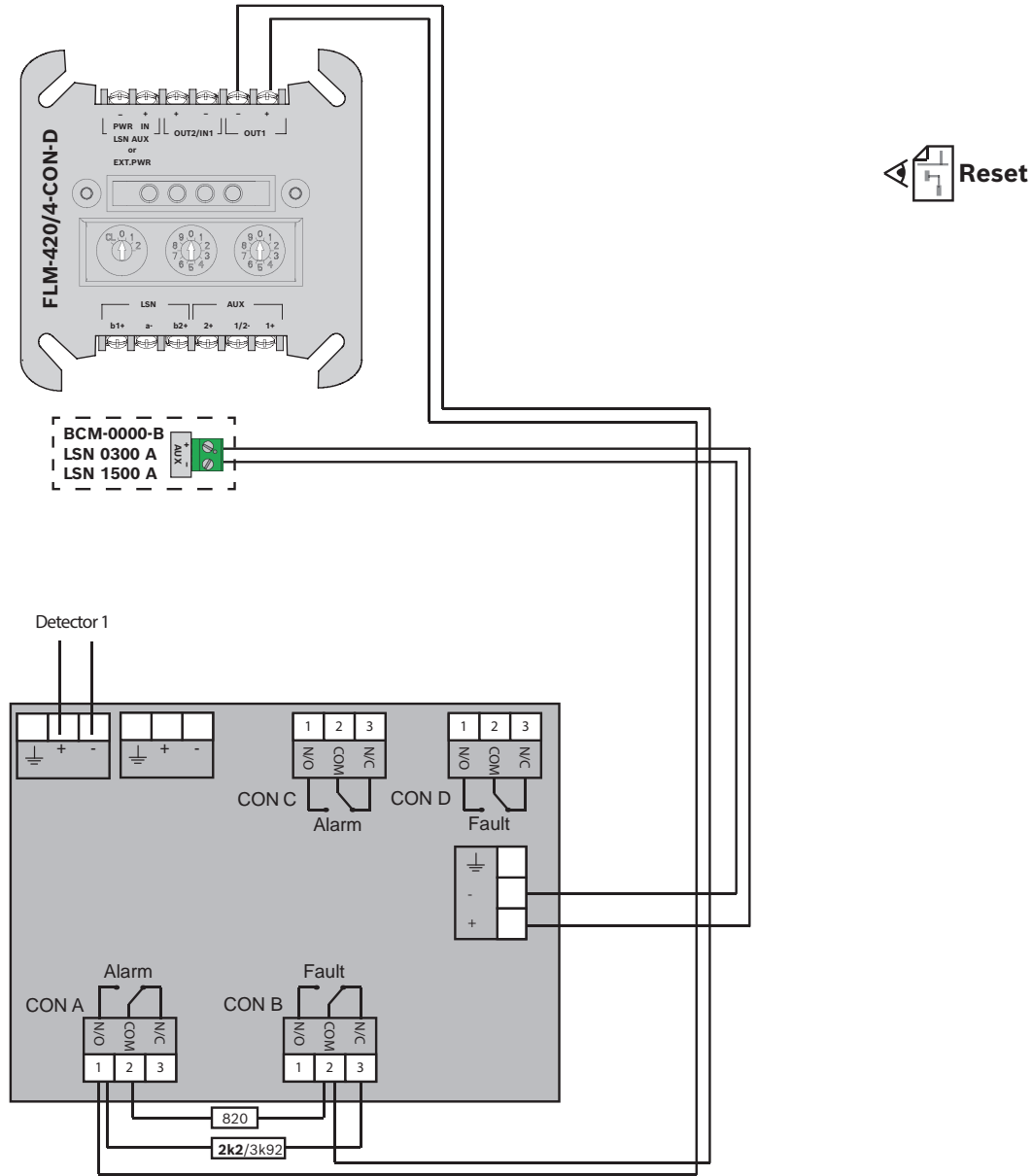
2 x **OUT1+2**





**FIRERAY5000**

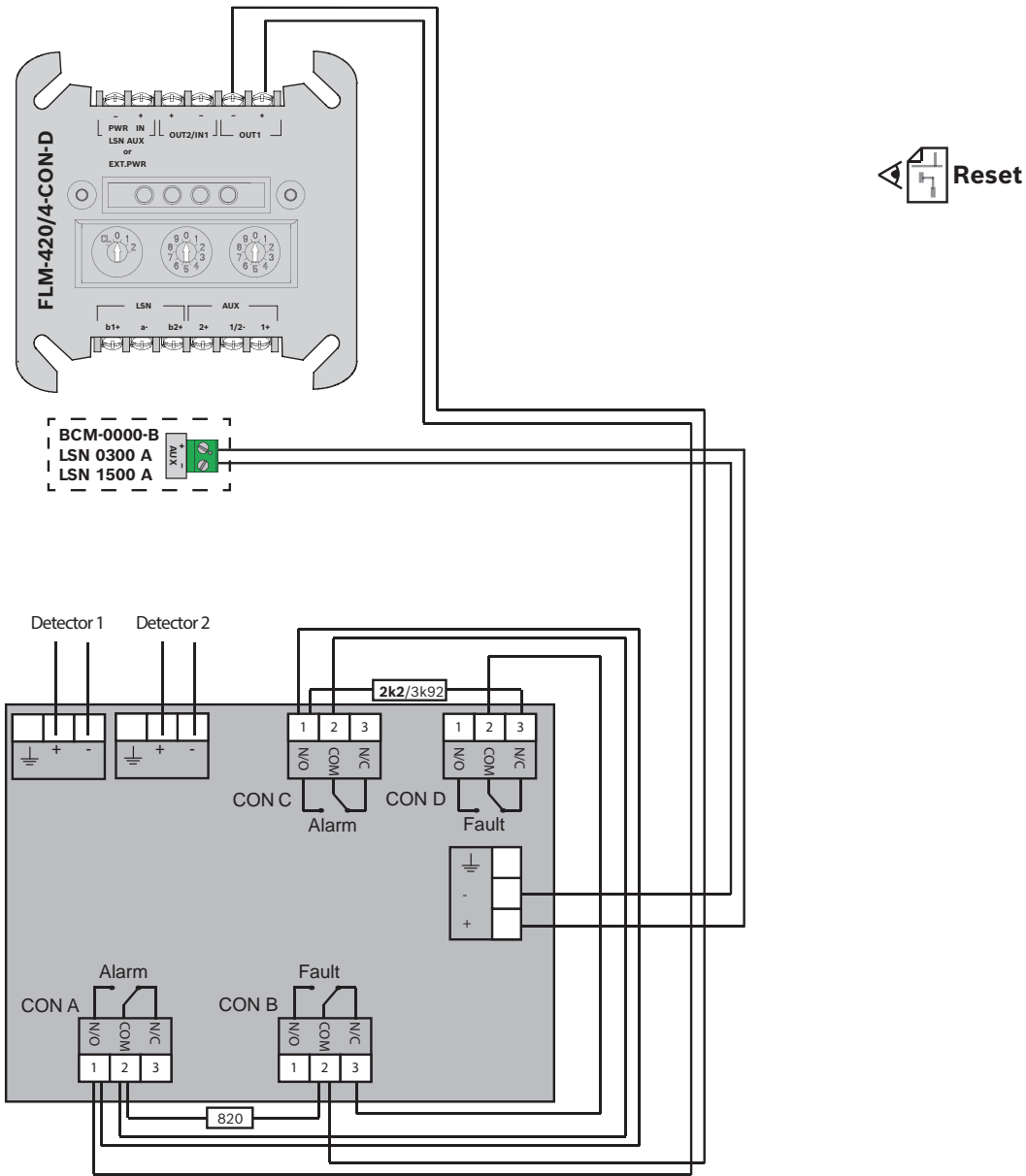
1 x





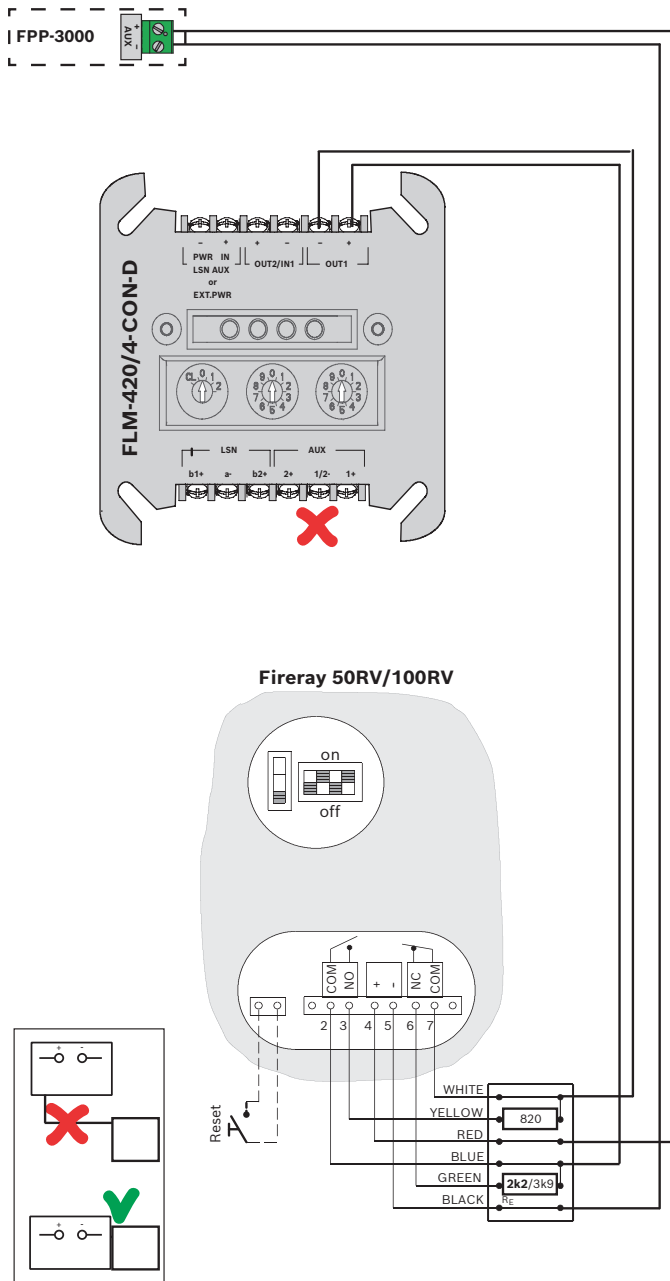
**FIRERAY5000**

**2 x OUT1**





**Fireray 50RV  
Fireray 100RV**

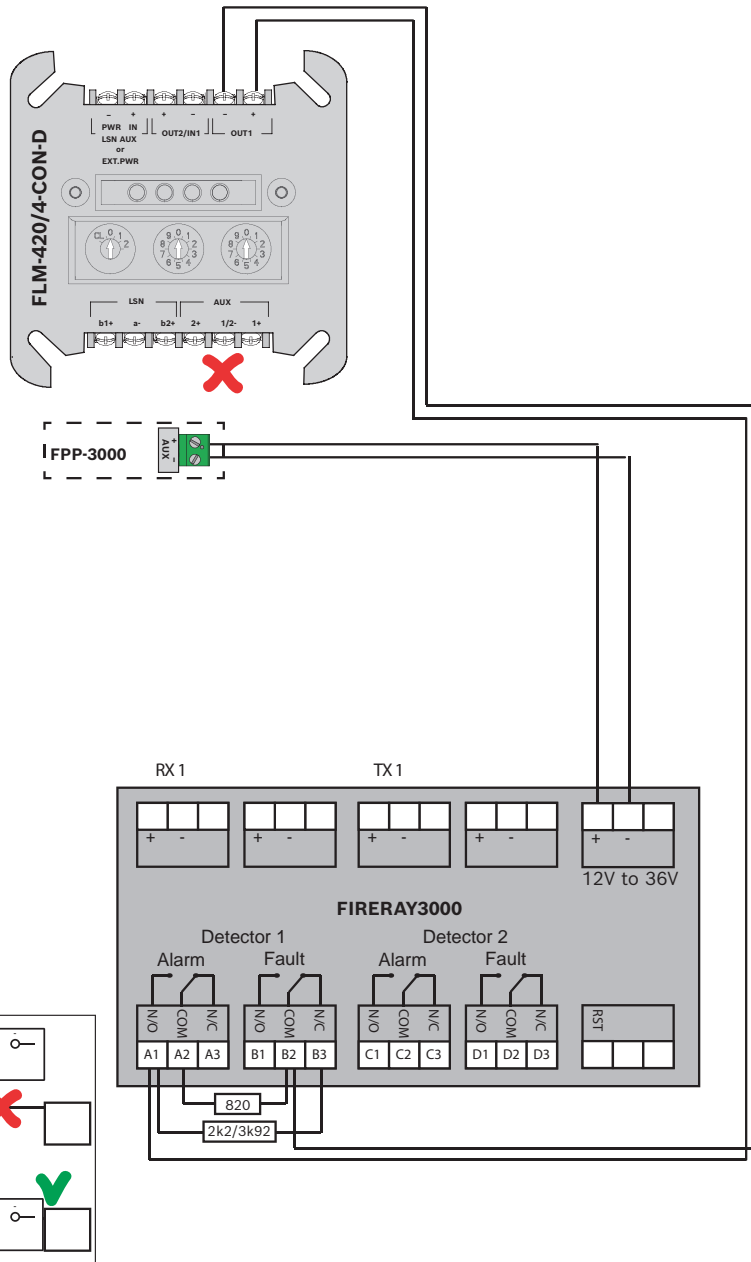




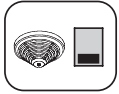


**FIRERAY3000**

1 x

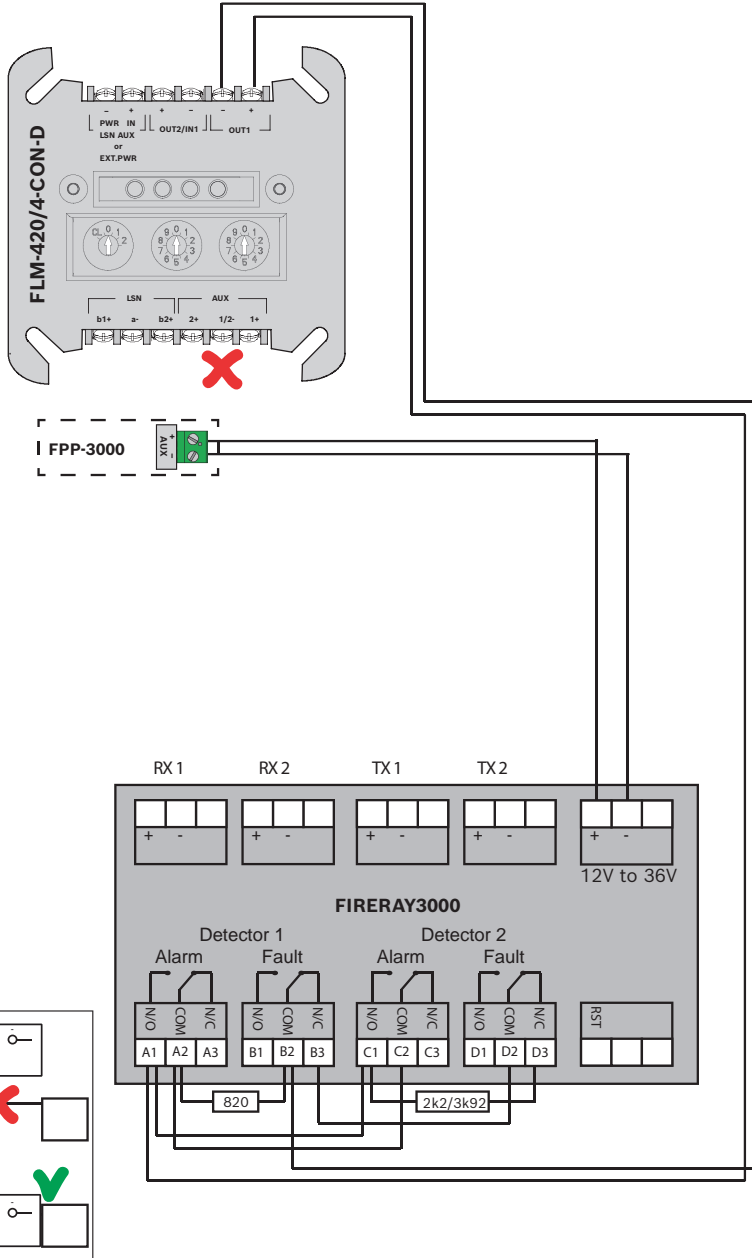


**Reset action**

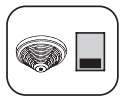


**FIRERAY3000**

2 x  **OUT1**

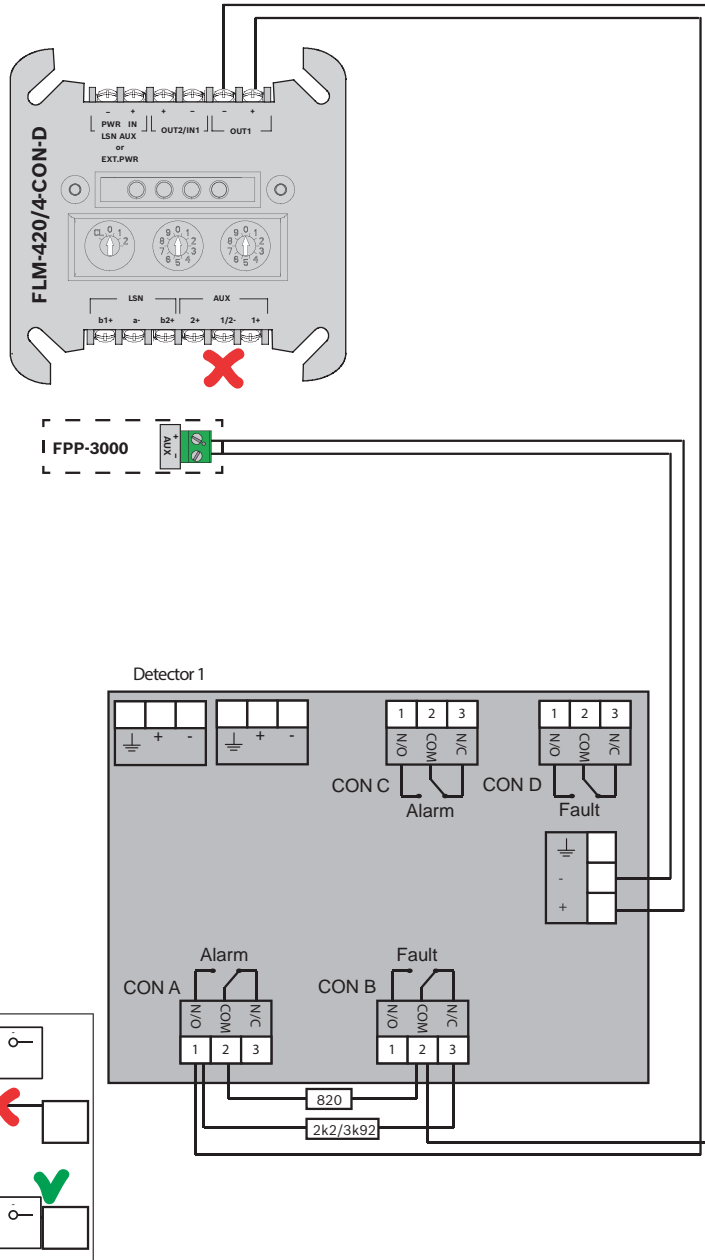


 **Reset action**



**FIRERAY5000**

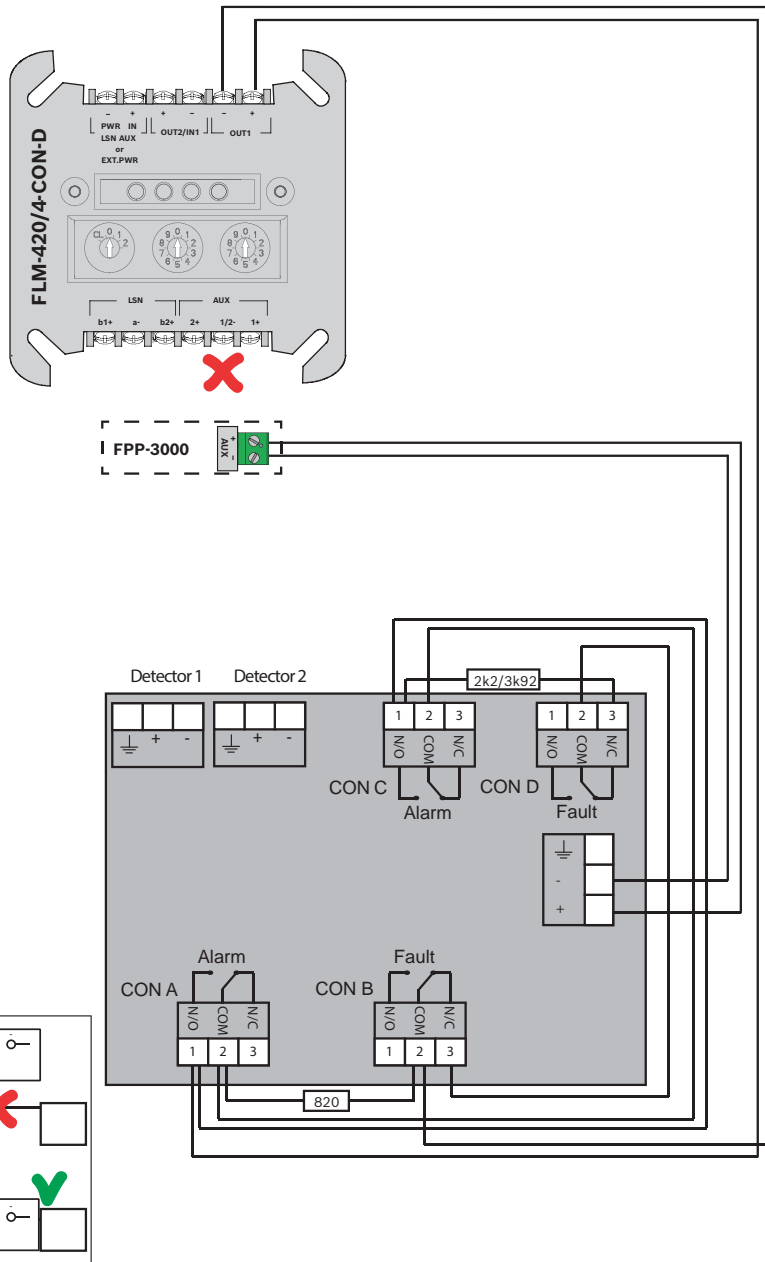
1 x



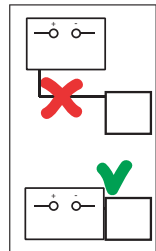


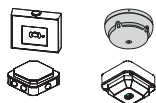
**FIRERAY5000**

**2 x OUT1**

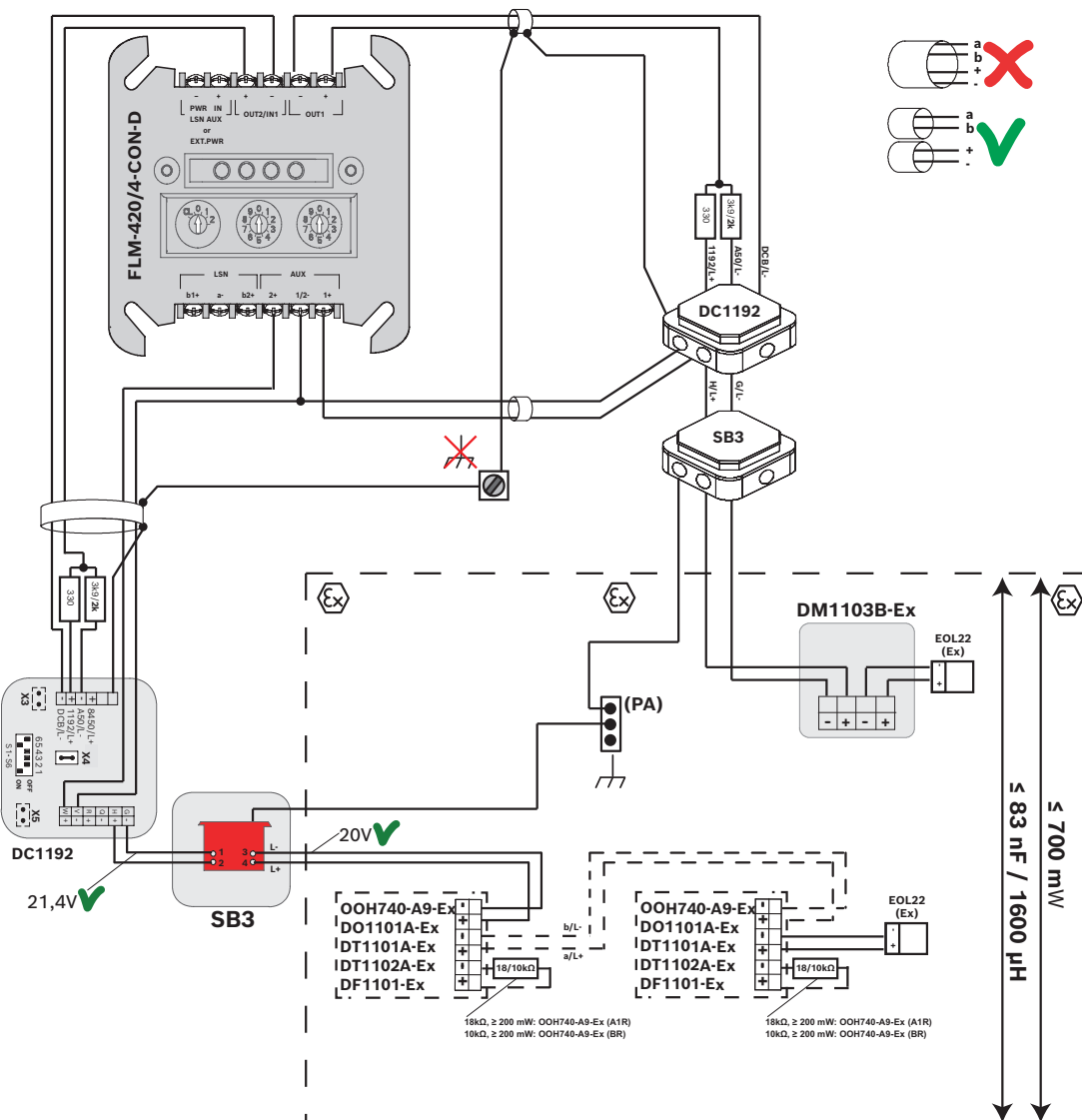


**Reset action**



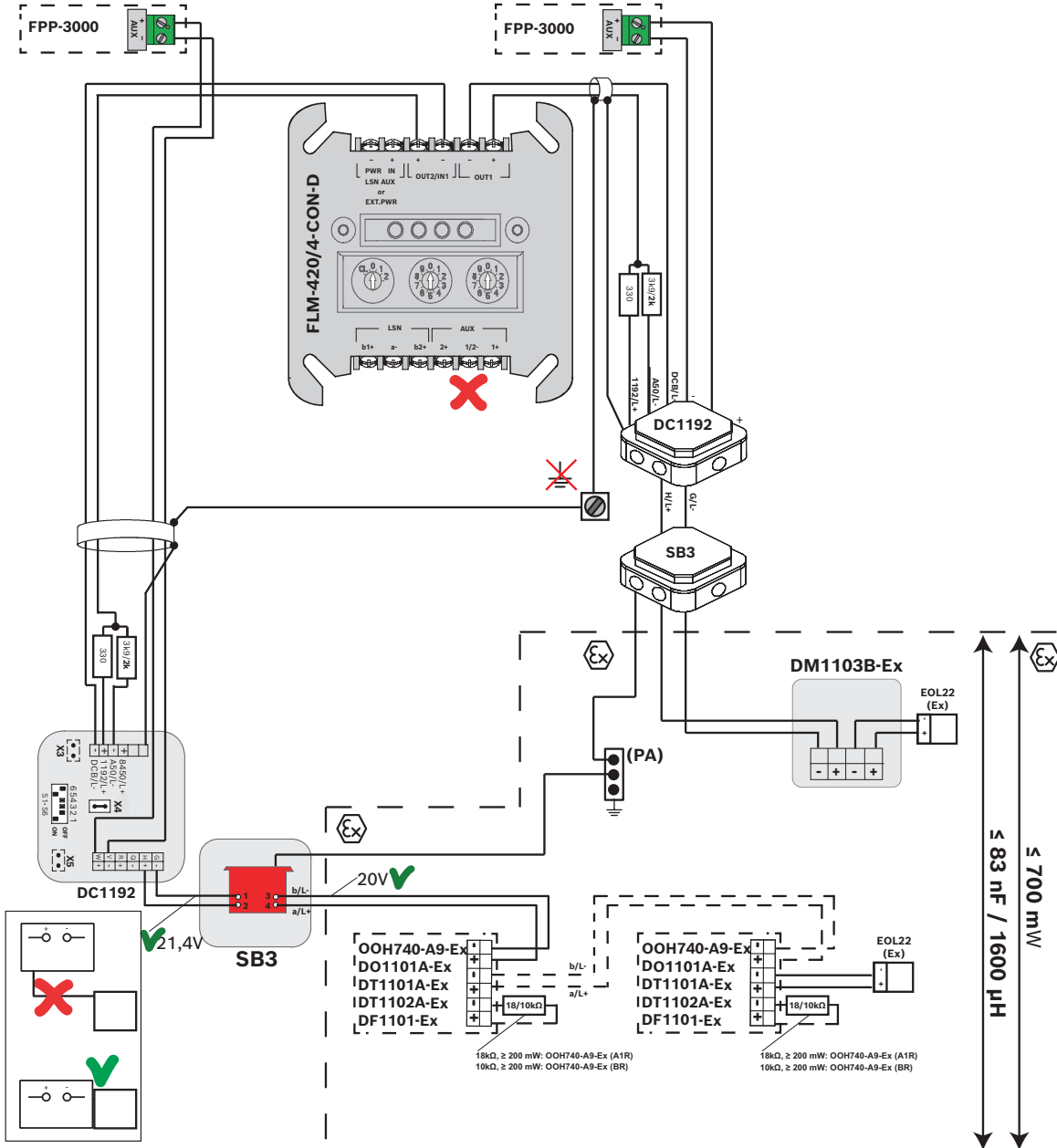


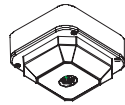
DC1192, SB3  
OOH740-A9-Ex  
DO1101A-Ex  
DT1101A-Ex-  
/DT1102A-Ex  
DF1101-Ex



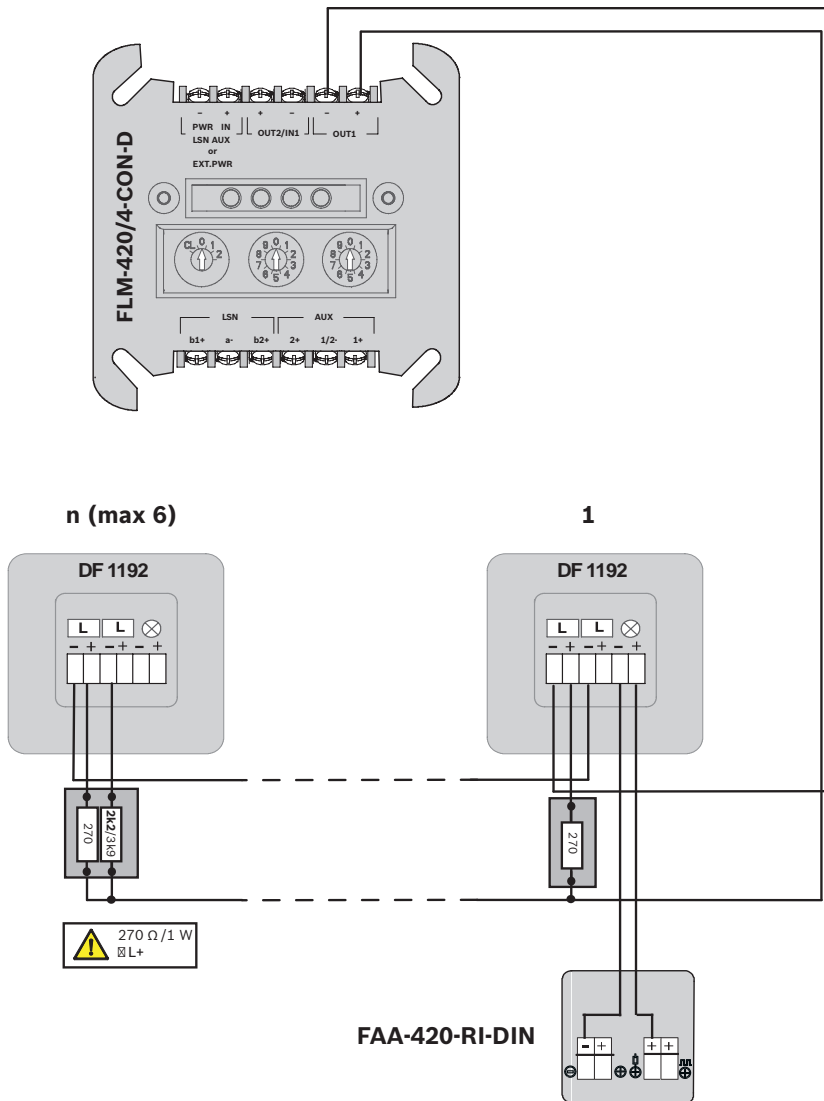


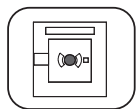
DC1192, SB3  
 OOH740-A9-Ex  
 DO1101A-Ex  
 DT1101A-Ex/DT1102A-Ex  
 DF1101-Ex  
 DM1103B-Ex



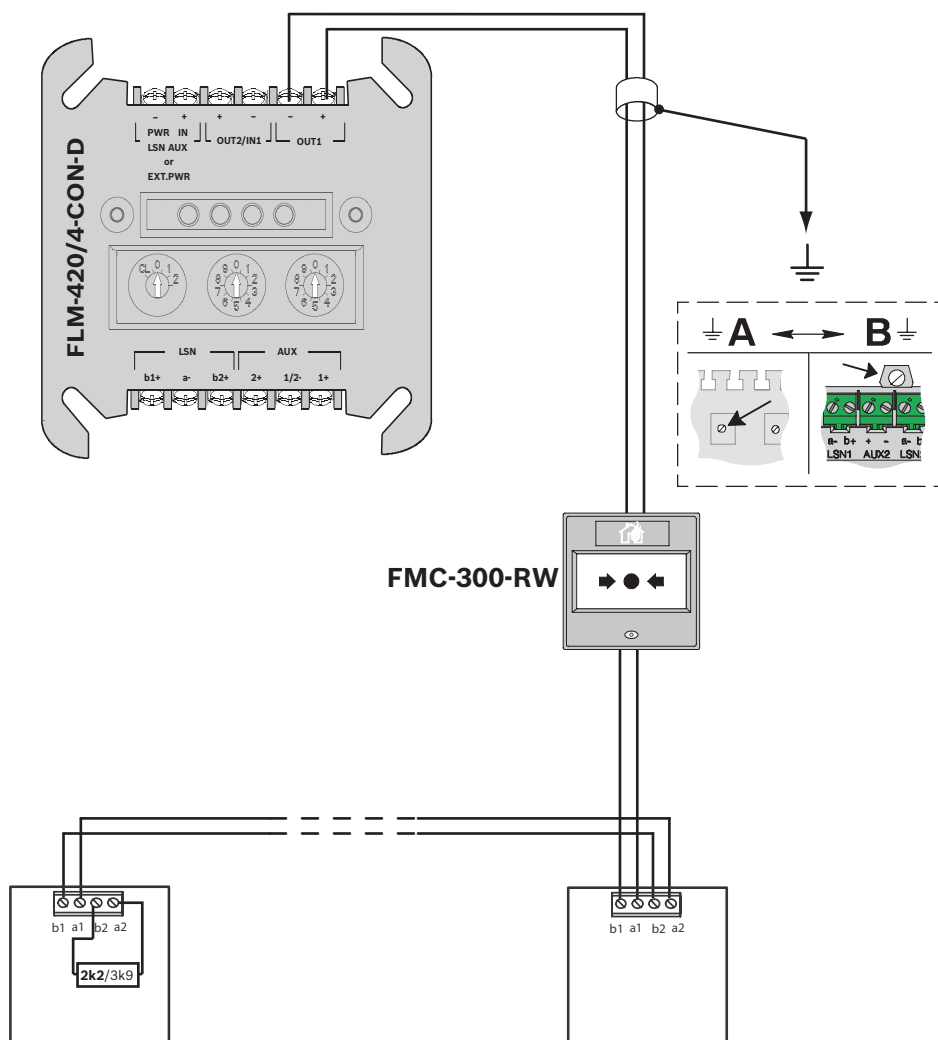
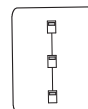


DF 1192

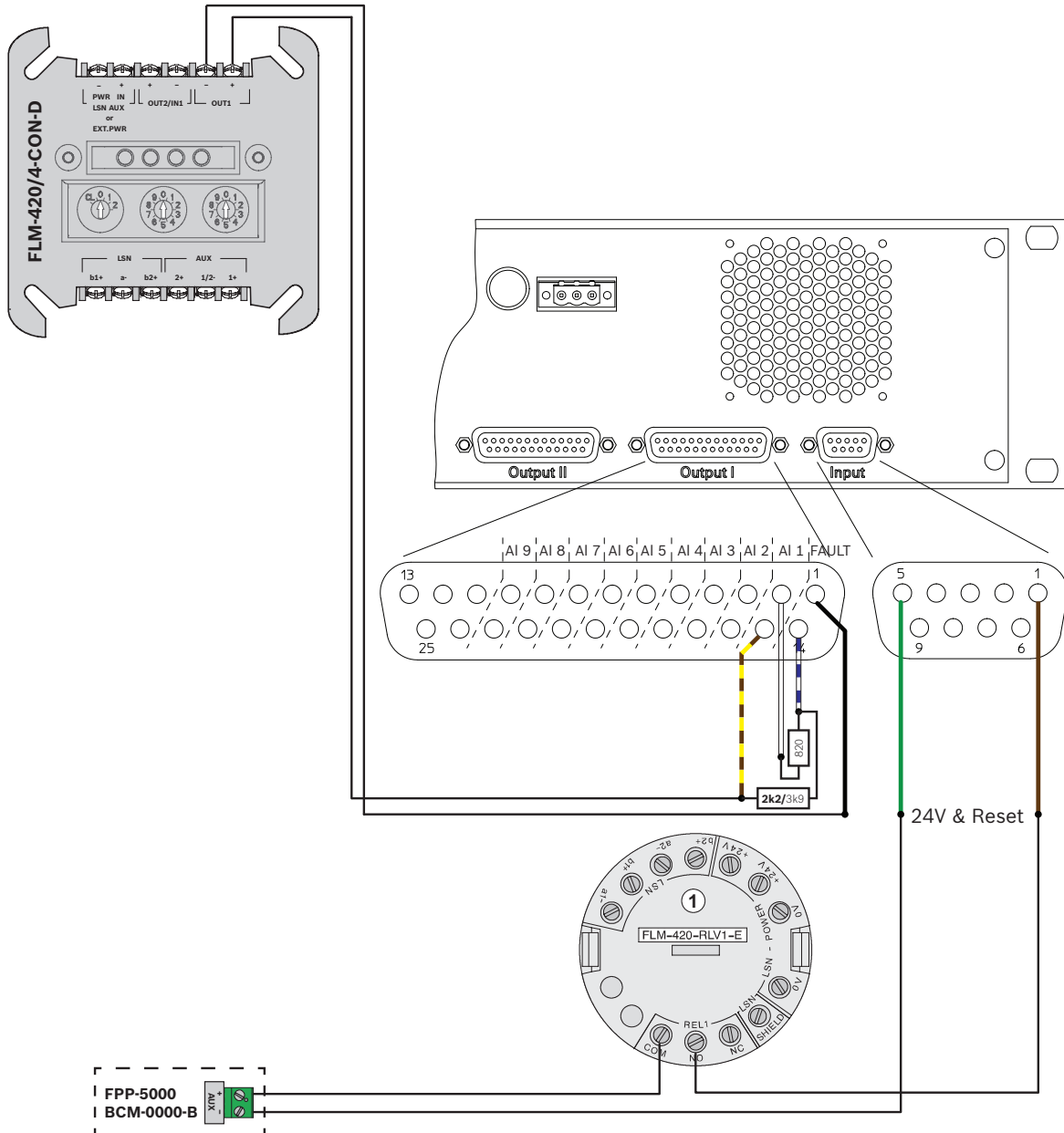


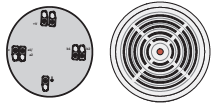


**FMC-300-RW**

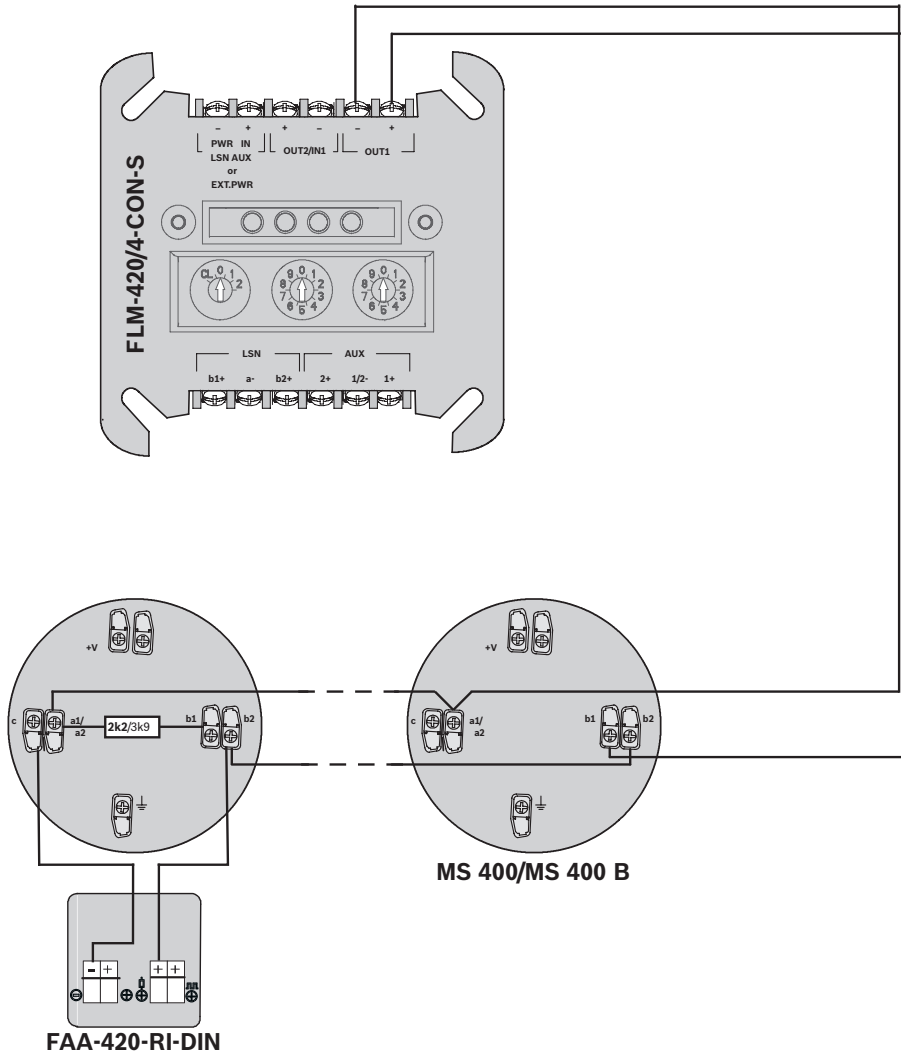


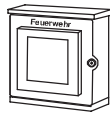
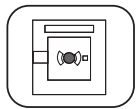




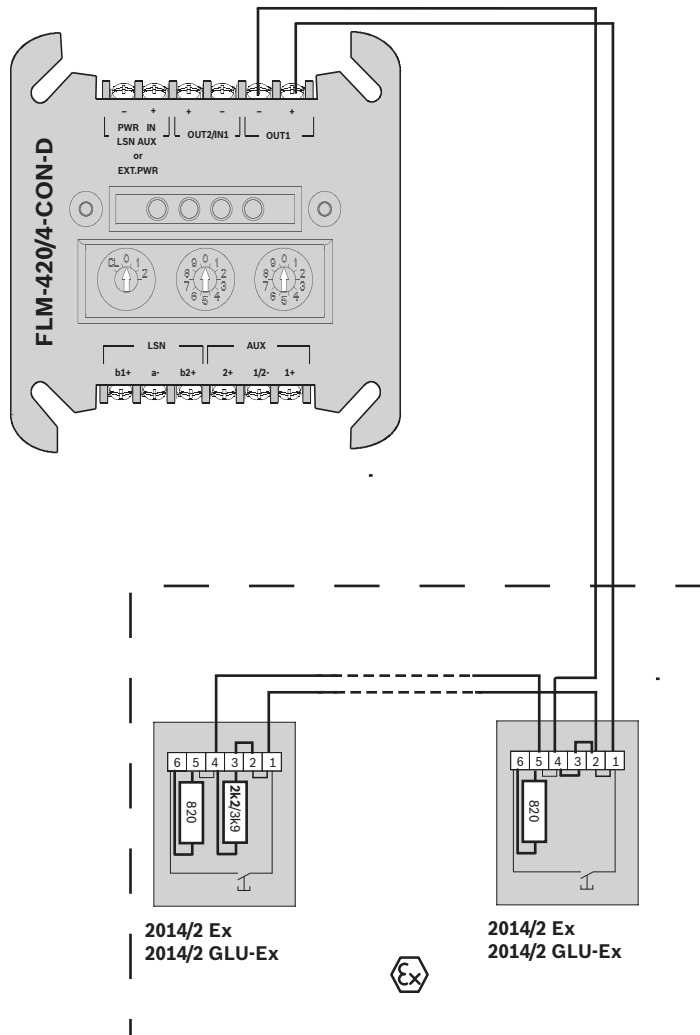
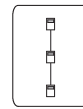


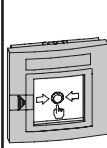
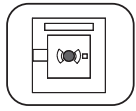
MSS 400, MSS 400 B  
 FCH-320-T320  
 FCH-T320-R470, FCH-T320-FSA  
 FCP-O320, FCP-O320-R470  
 FCP-OC320, FCP-OC320-R470  
 FCP-OT320, FCP-OT320-R470



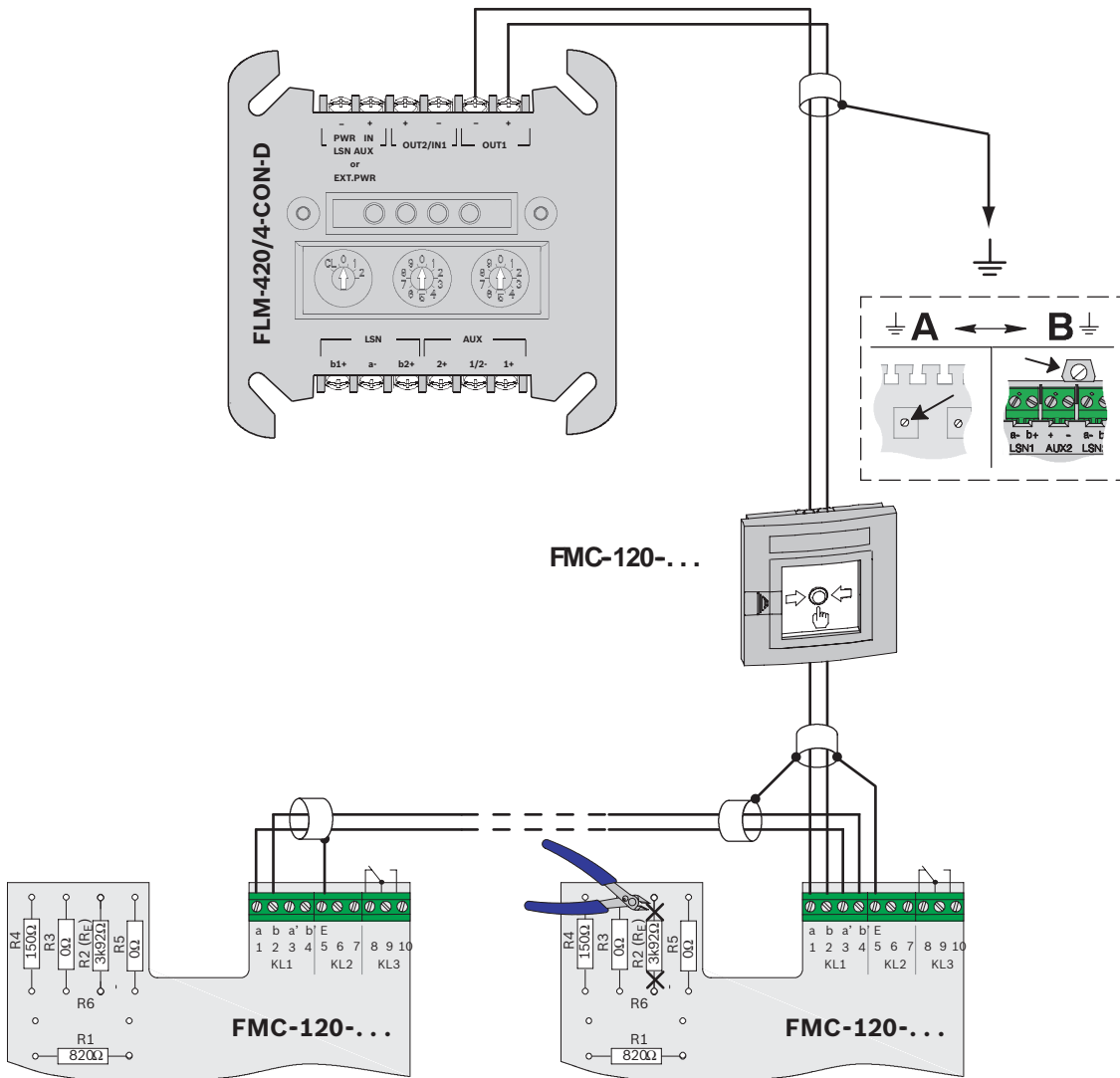
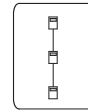


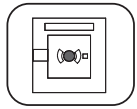
**2014/2 Ex**  
**2014/2 GLU-Ex**



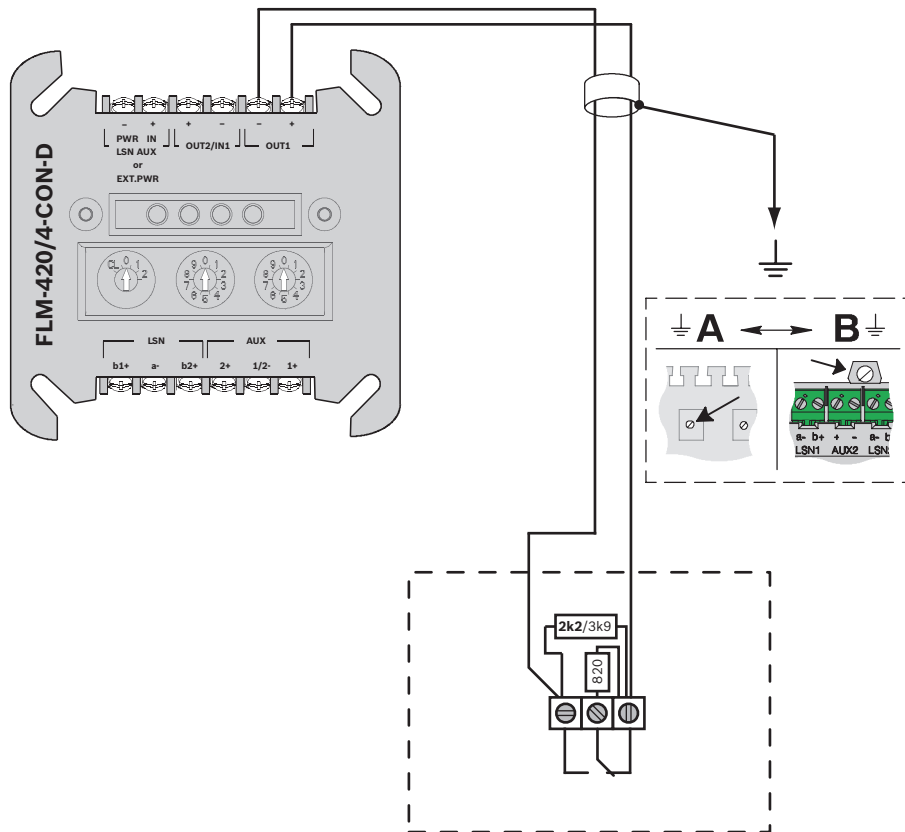
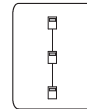


FMC-120-DKM-G-R FMC-120-DKM-G-Y  
 FMC-120-DKM-H-R FMC-120-EST-G-B  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B

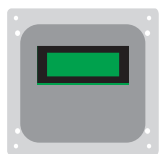




NO

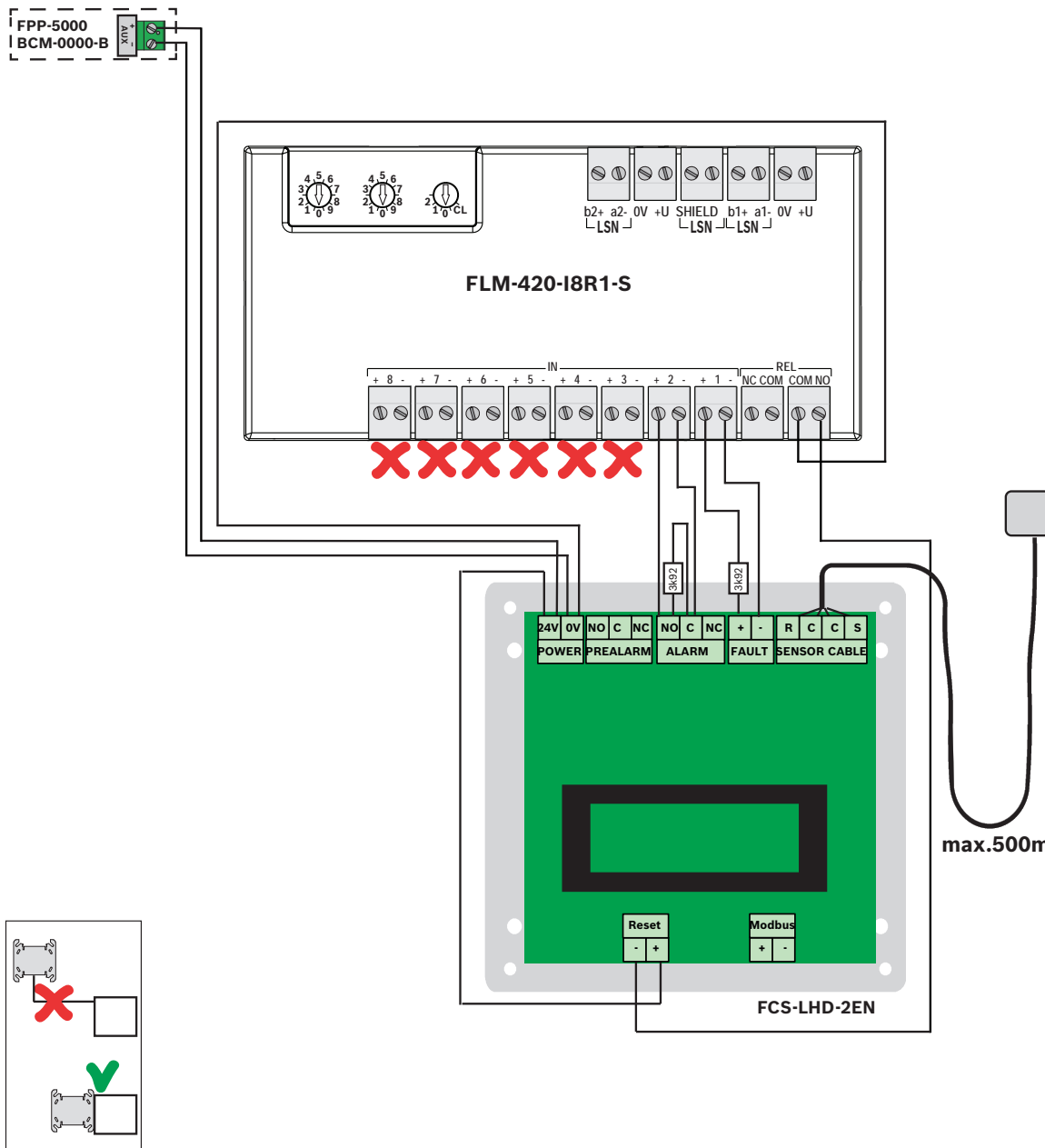


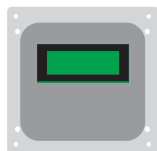
### 2.5.2 FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





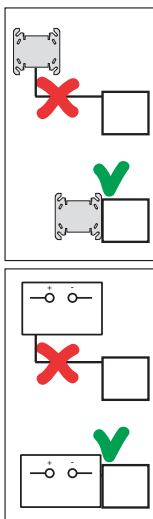
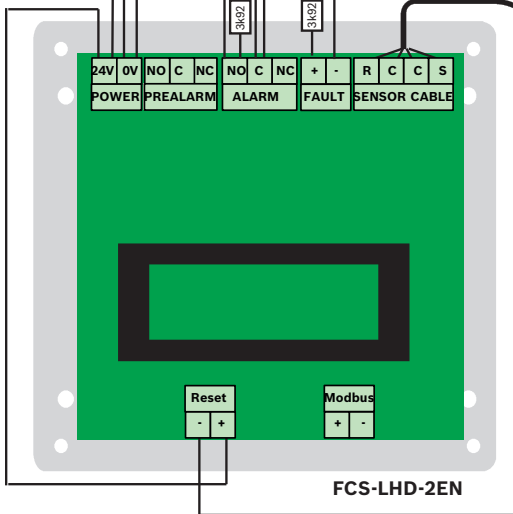
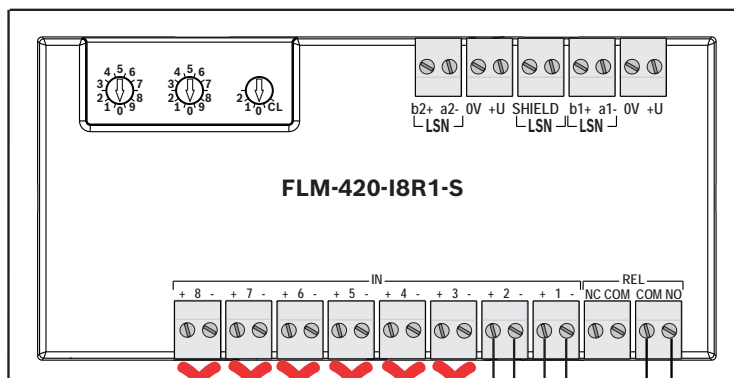
ProReact EN Analogue

FCS-LHD-2EN

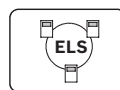


ELS

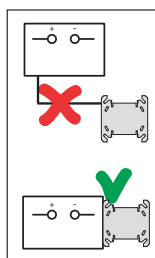
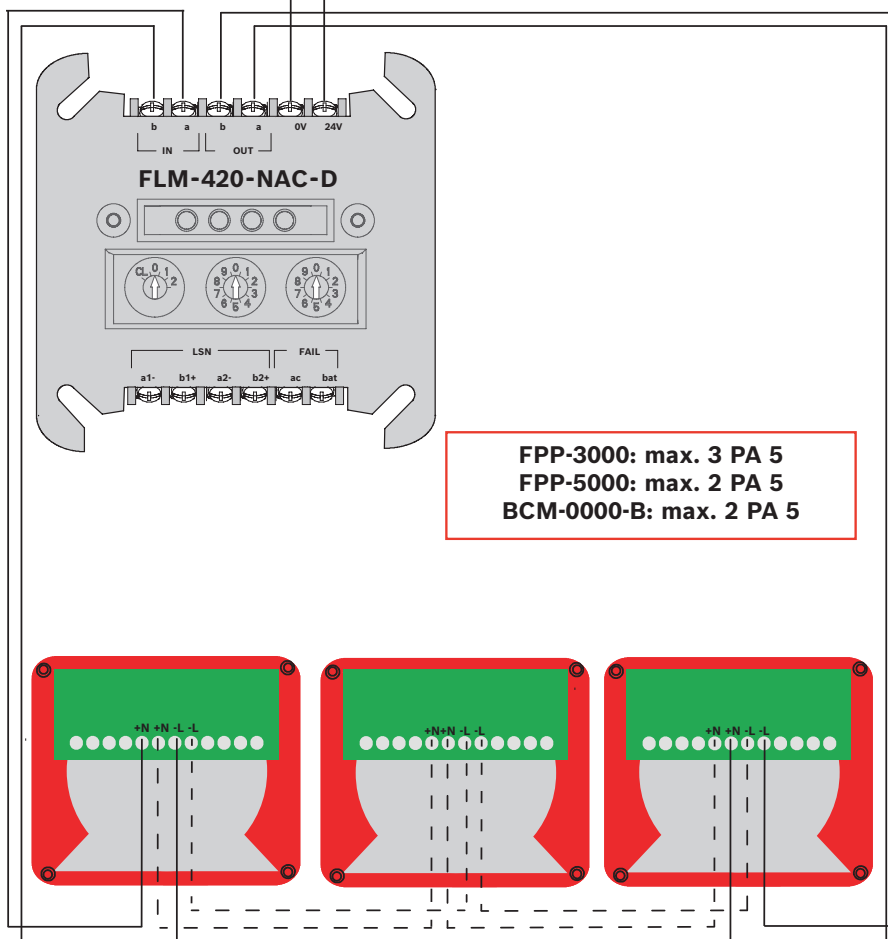
FPP-3000(ZSP135-DR)  
FPP-5000  
BCM-0000-B



### 2.5.3 FLM-420-NAC-D/S



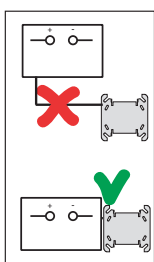
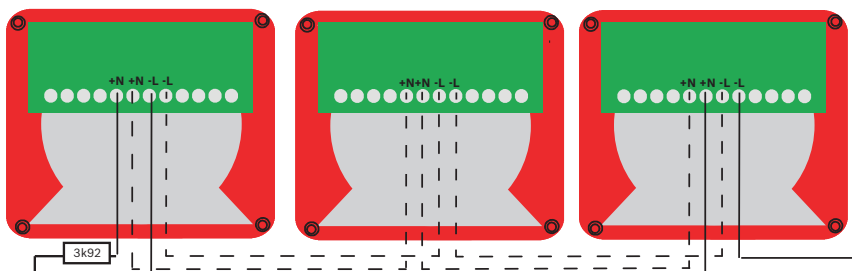
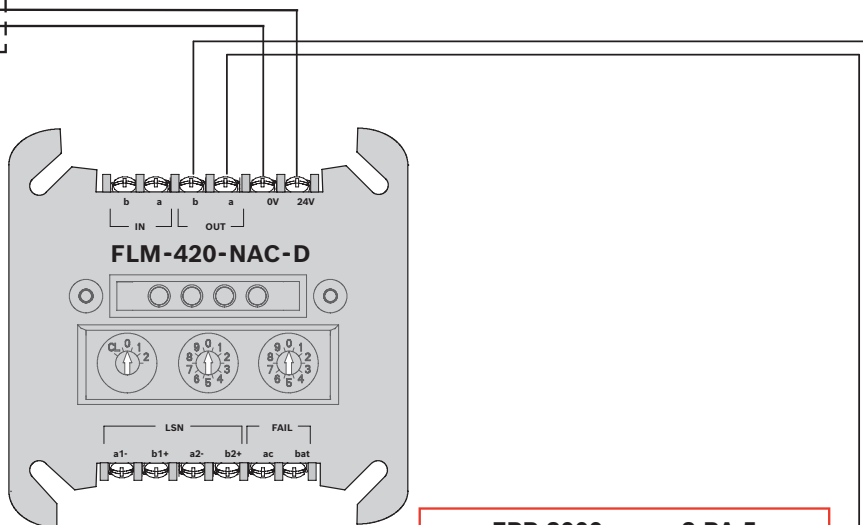
FPP-3000(ZSP135-DR)  
FPP-5000  
BCM-0000-B

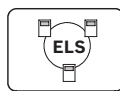




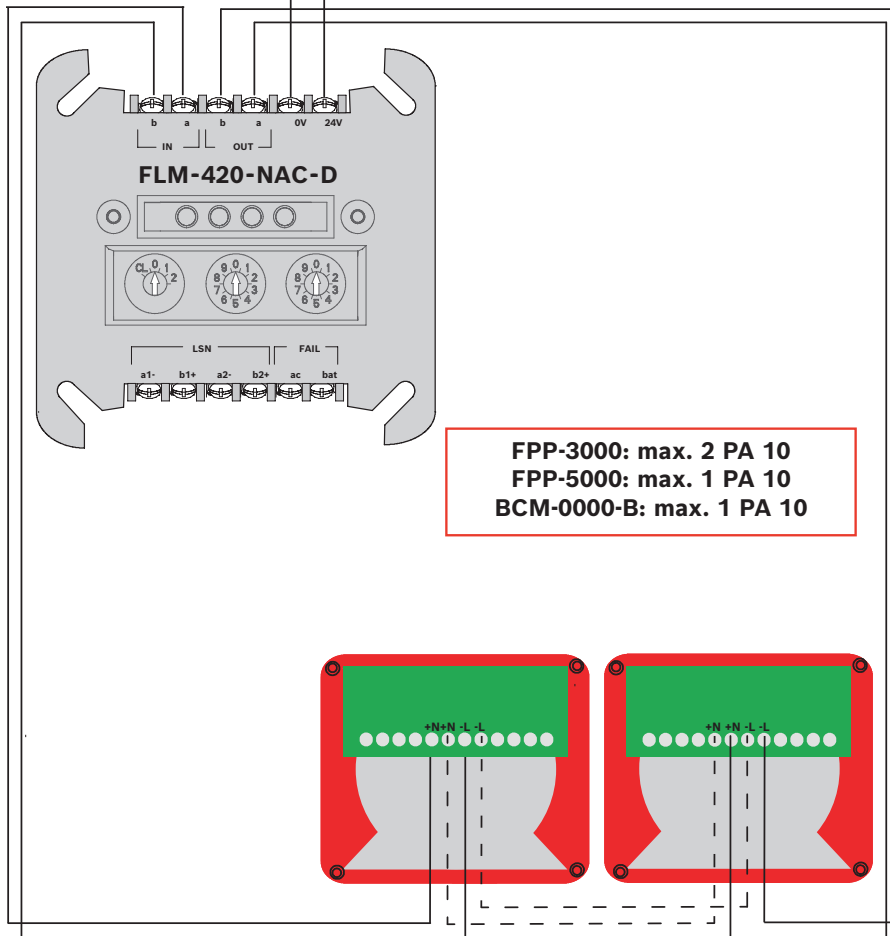


FPP-3000  
FPP-5000  
BCM-0000-B

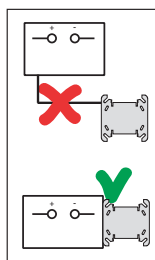




FPP-3000(ZSP135-DR)  
FPP-5000  
BCM-0000-B

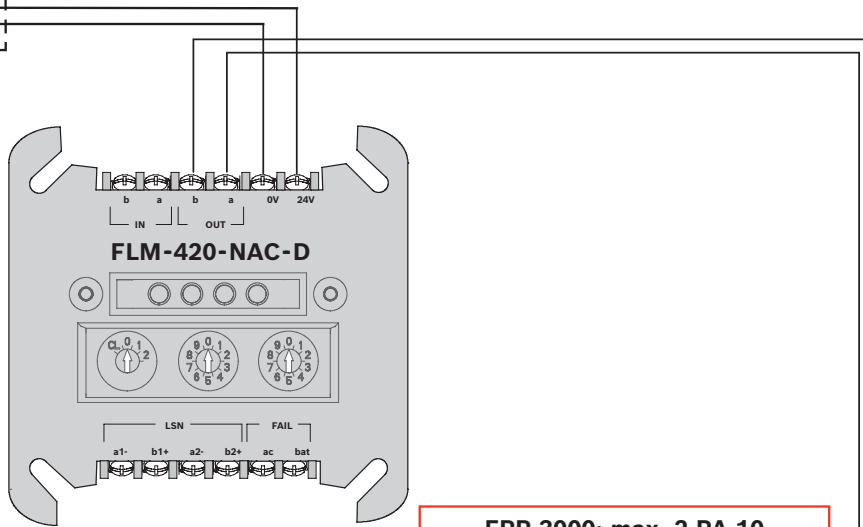


**FPP-3000: max. 2 PA 10**  
**FPP-5000: max. 1 PA 10**  
**BCM-0000-B: max. 1 PA 10**

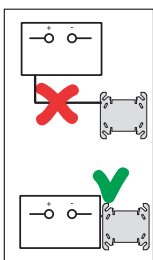
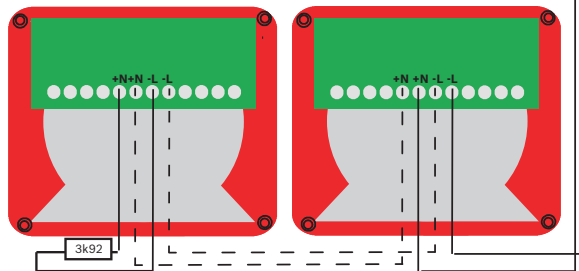


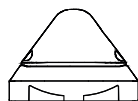


FPP-3000  
FPP-5000  
BCM-0000-B

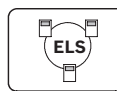


**FPP-3000: max. 2 PA 10**  
**FPP-5000: max. 1 PA 10**  
**BCM-0000-B: max. 1 PA 10**

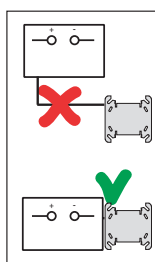
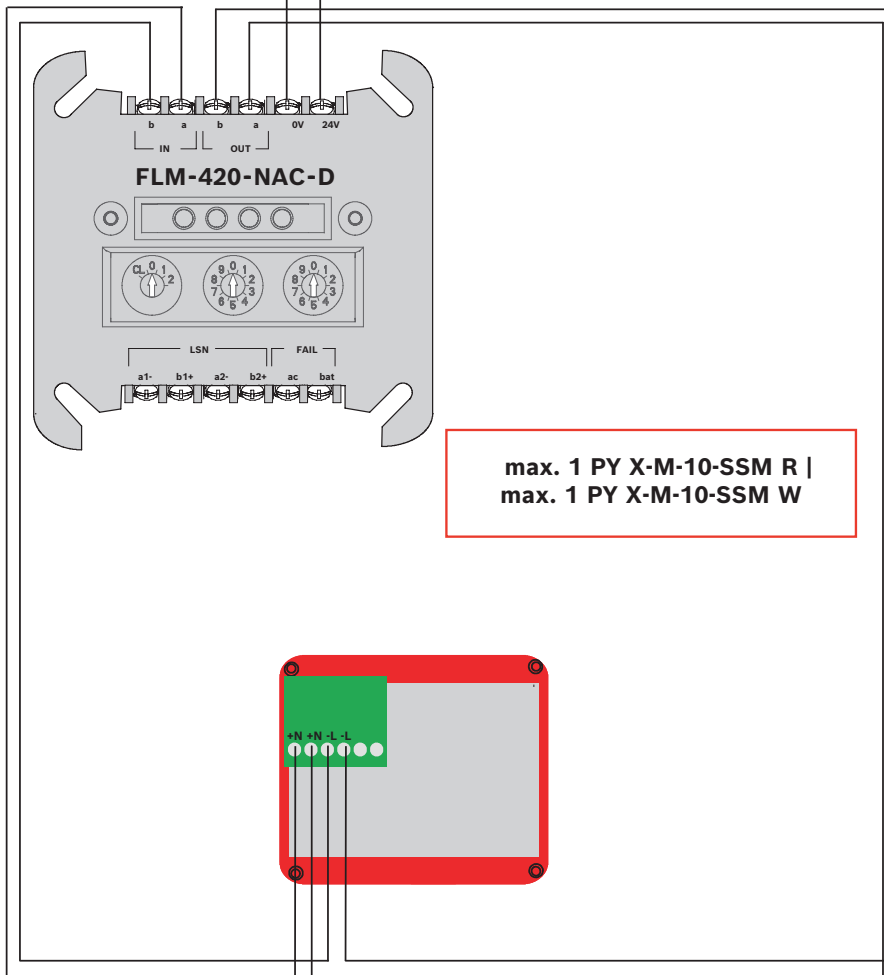


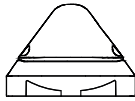


**PY X-M-10-SSM R**  
**PY X-M-10-SSM W**



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

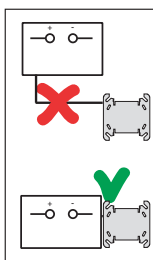
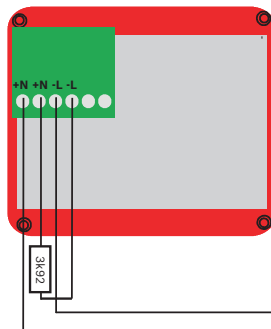
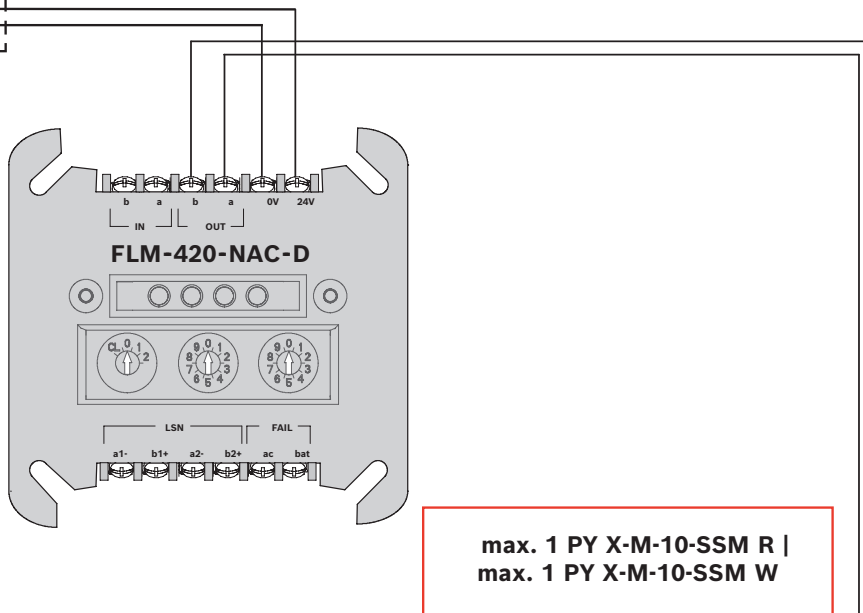




**PY X-M-10-SSM R**  
**PY X-M-10-SSM W**

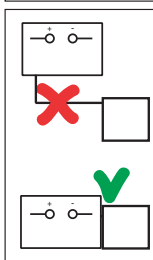
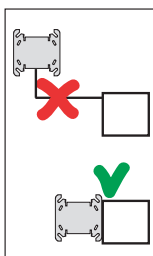
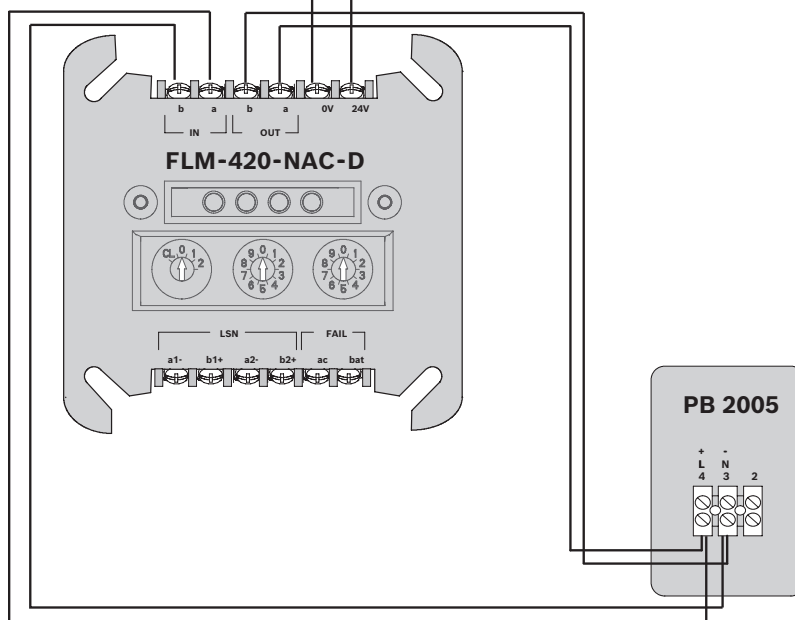
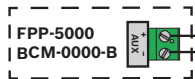
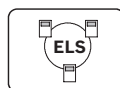


FPP-3000  
FPP-5000  
BCM-0000-B



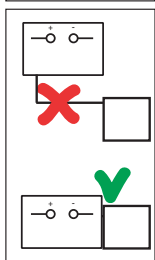
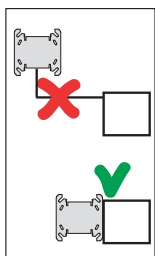
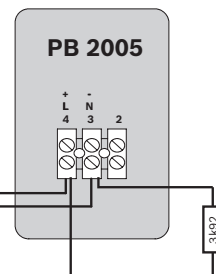
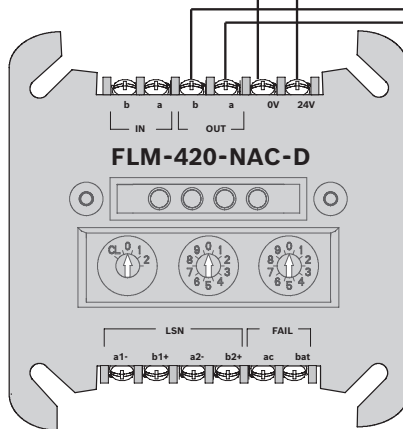


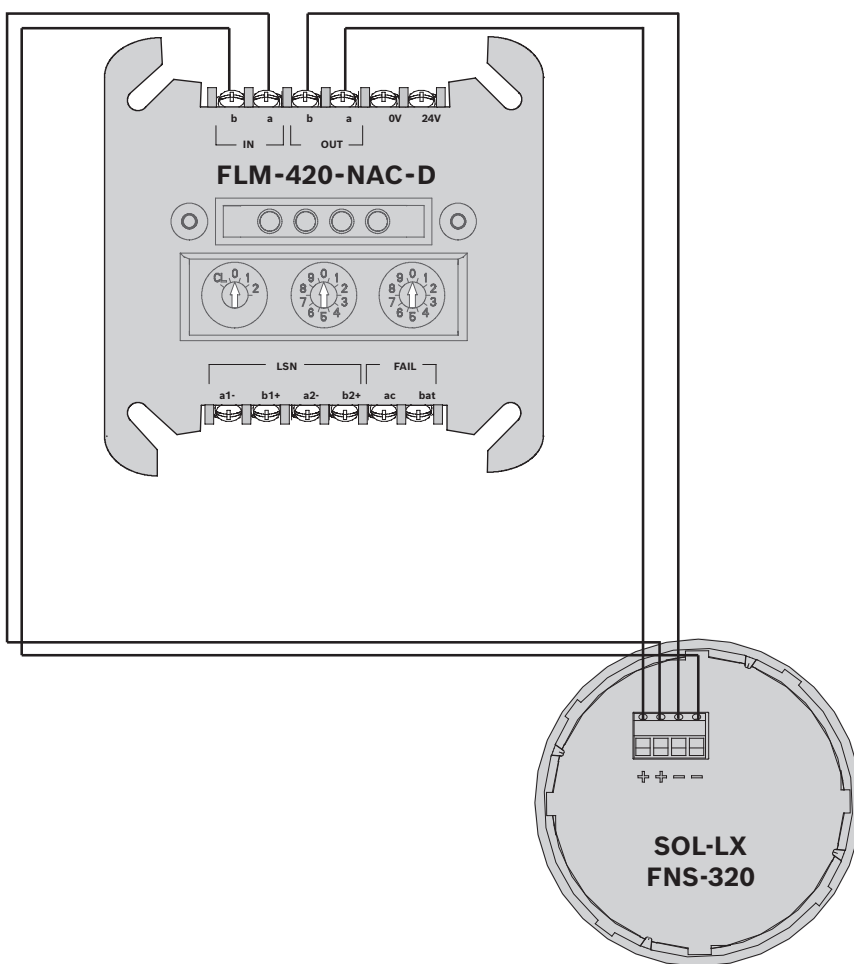
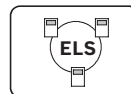
PB 2005



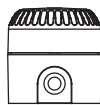


PB 2005

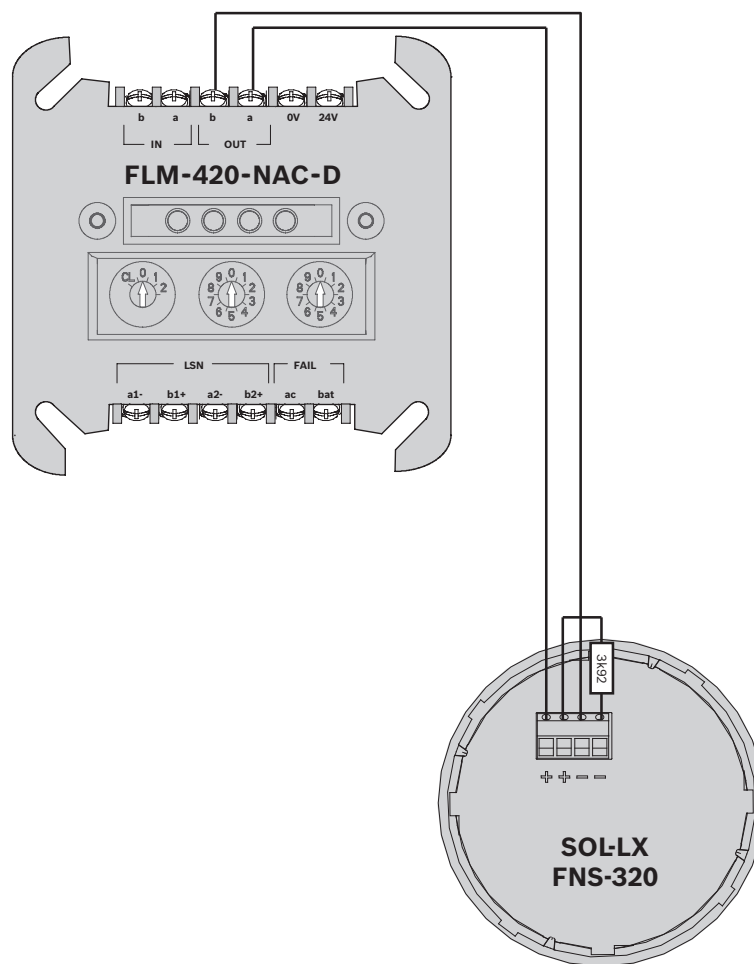
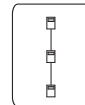


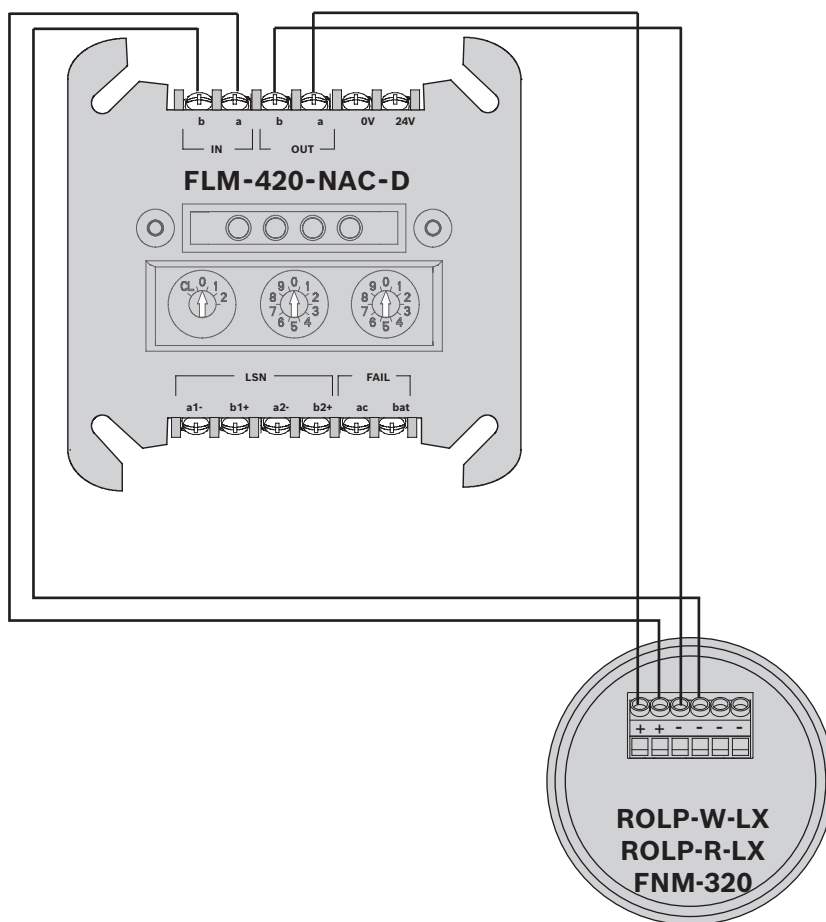
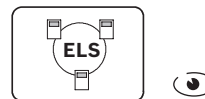






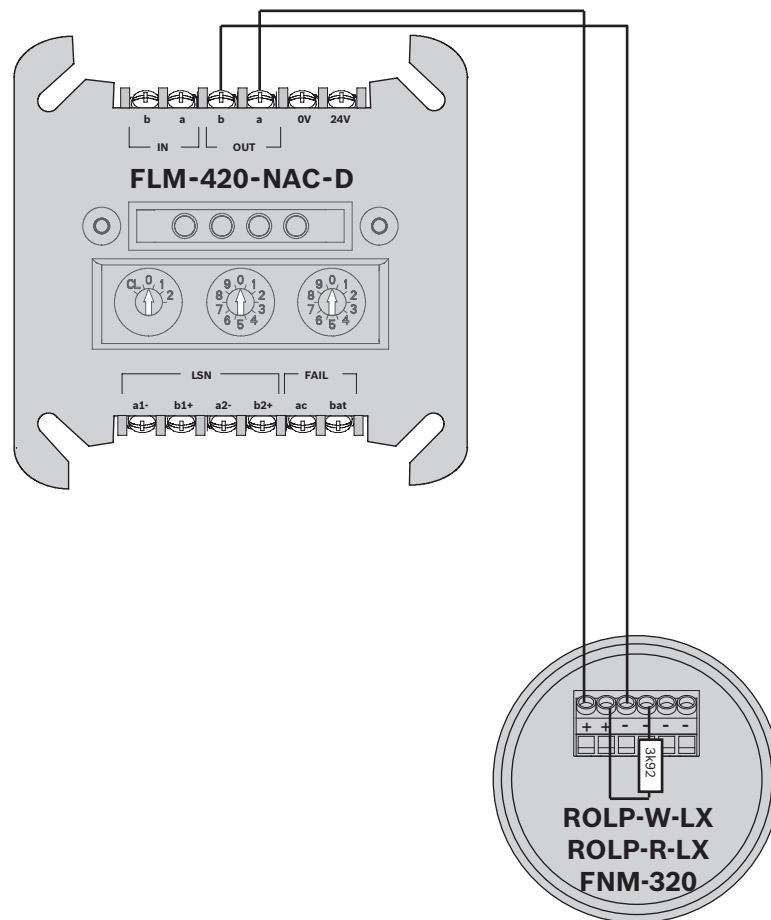
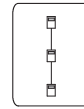
**SOL-LX  
FNS-320**



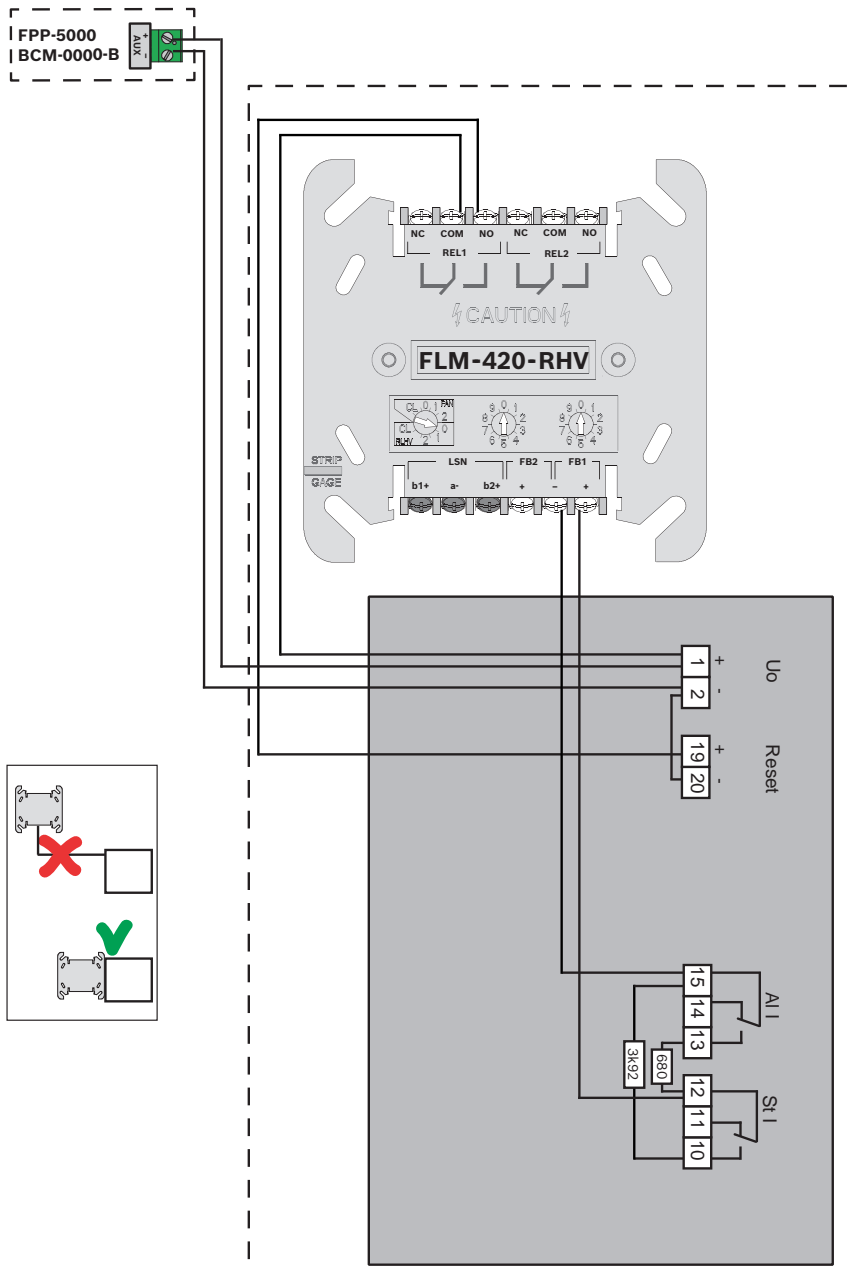




**ROLP-W-LX**  
**ROLP-R-LX**  
**FNM-320**

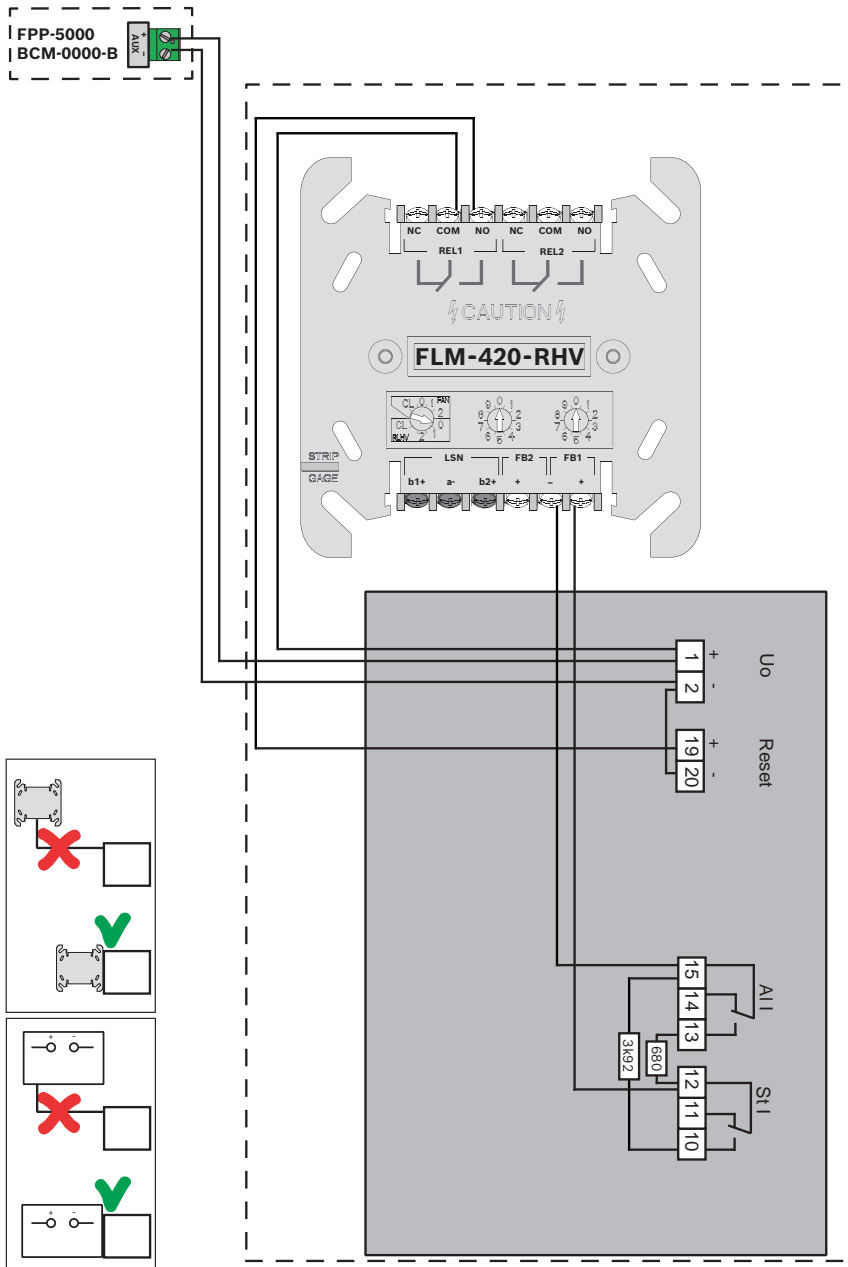


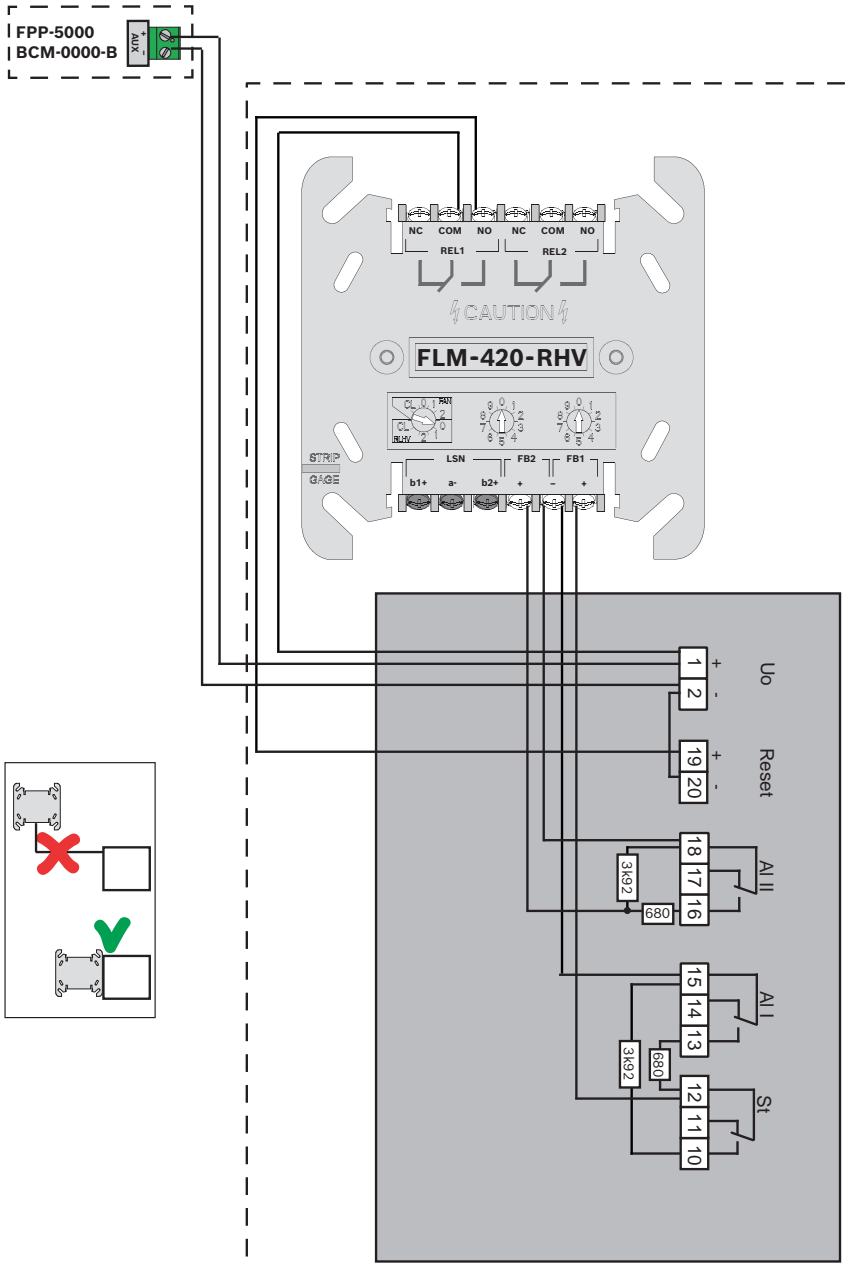
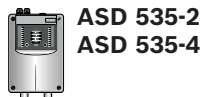
### 2.5.4 FLM-420-RHV





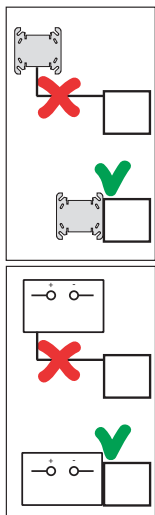
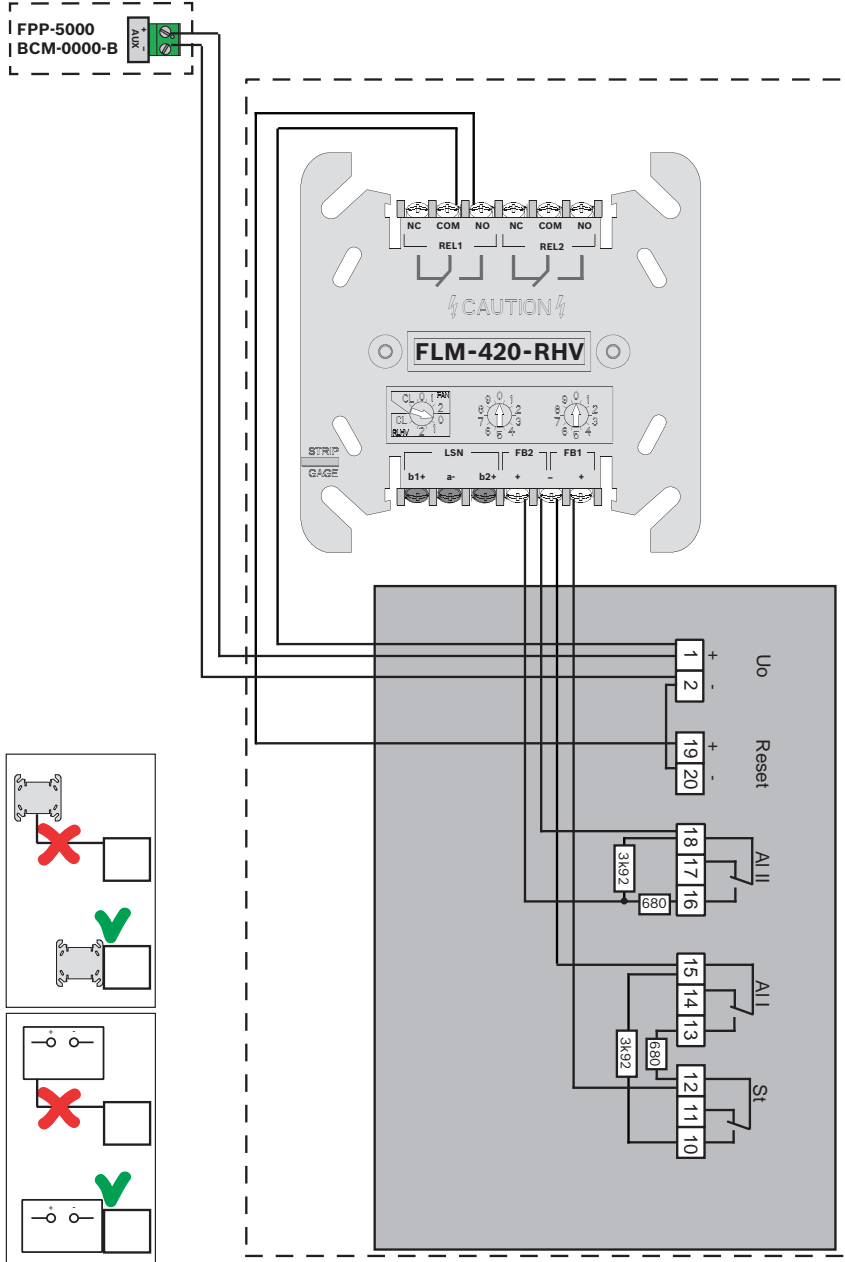
ELS

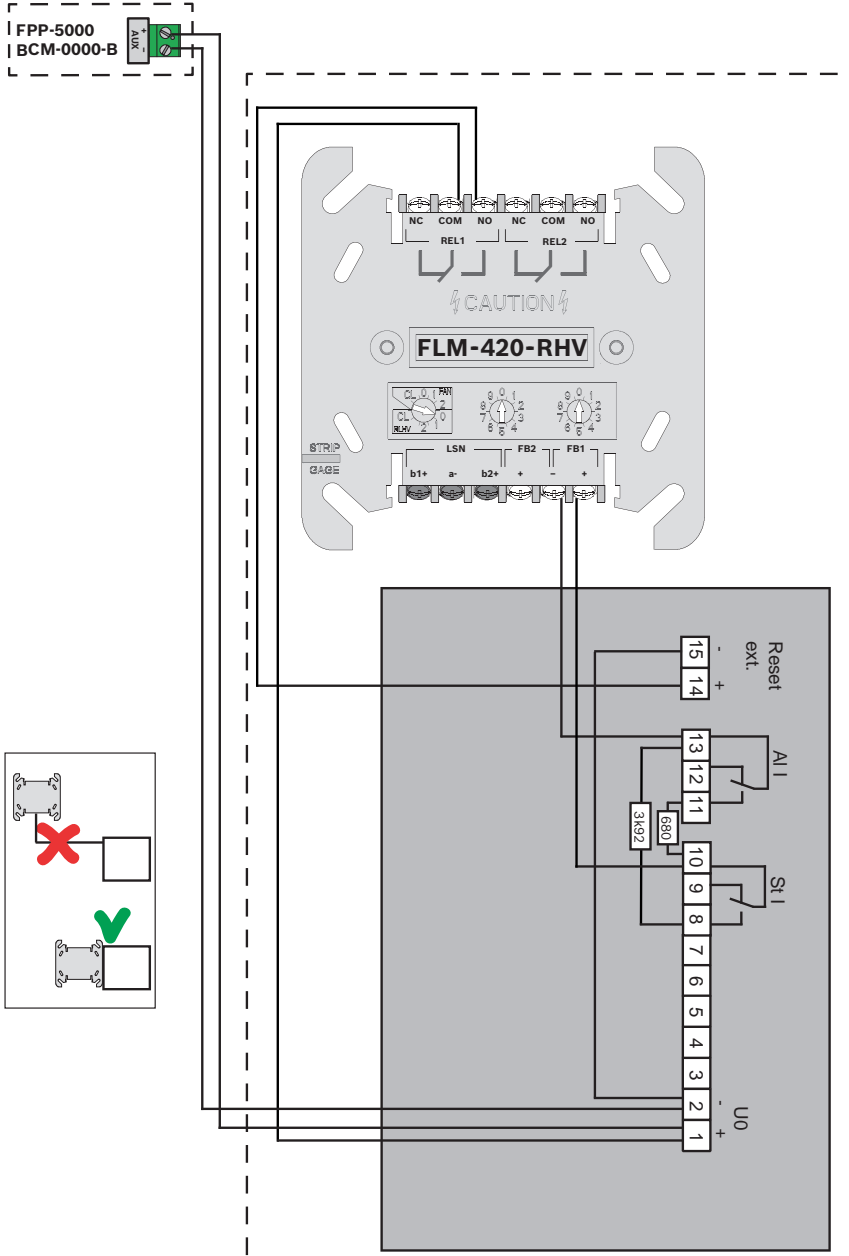






ELS

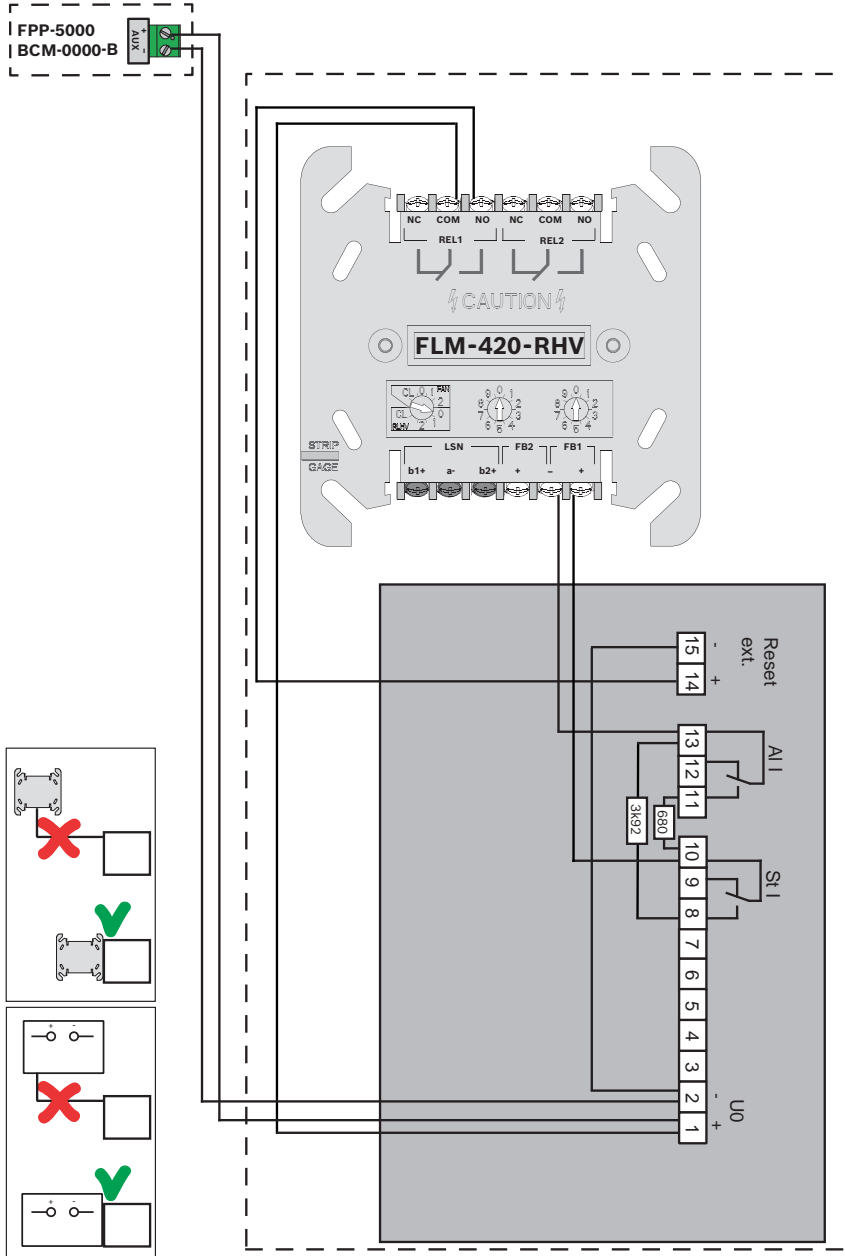






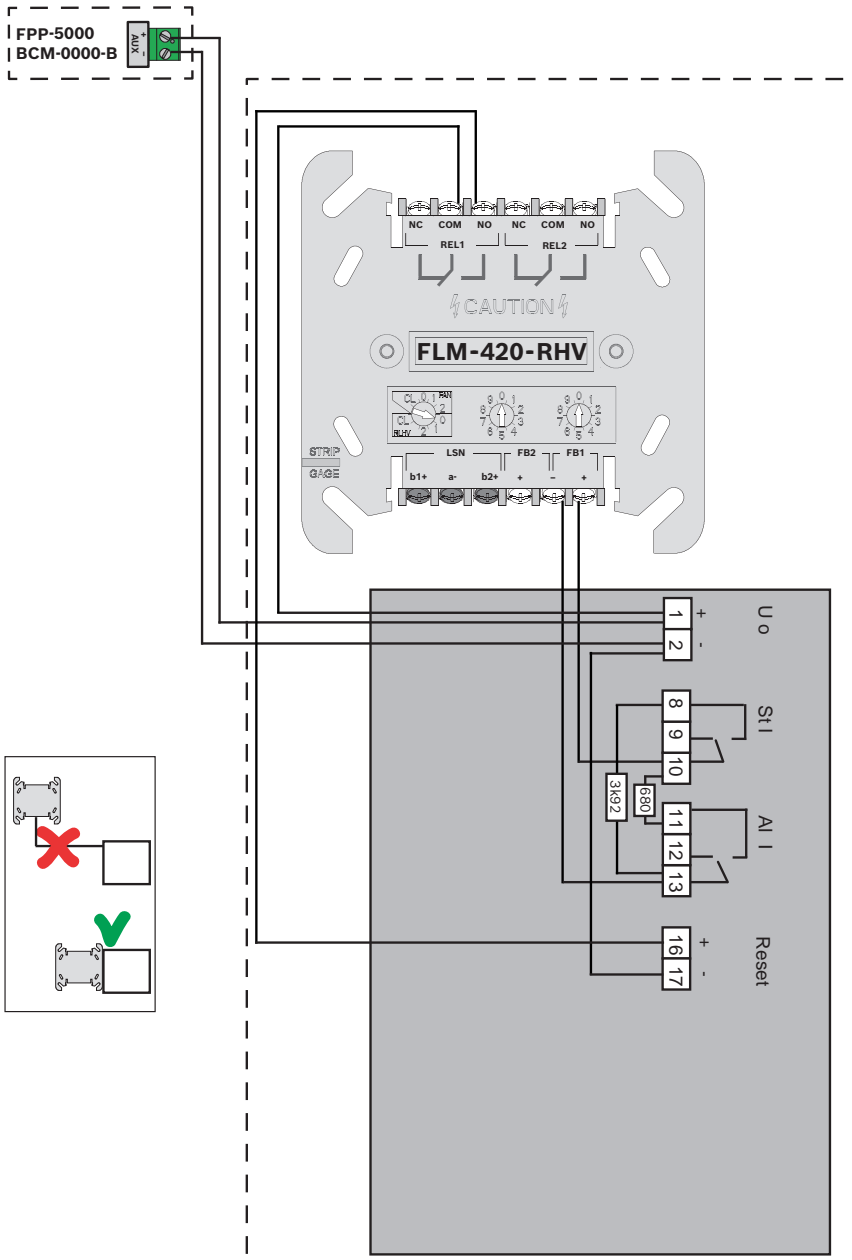


ELS





ADW 535-1

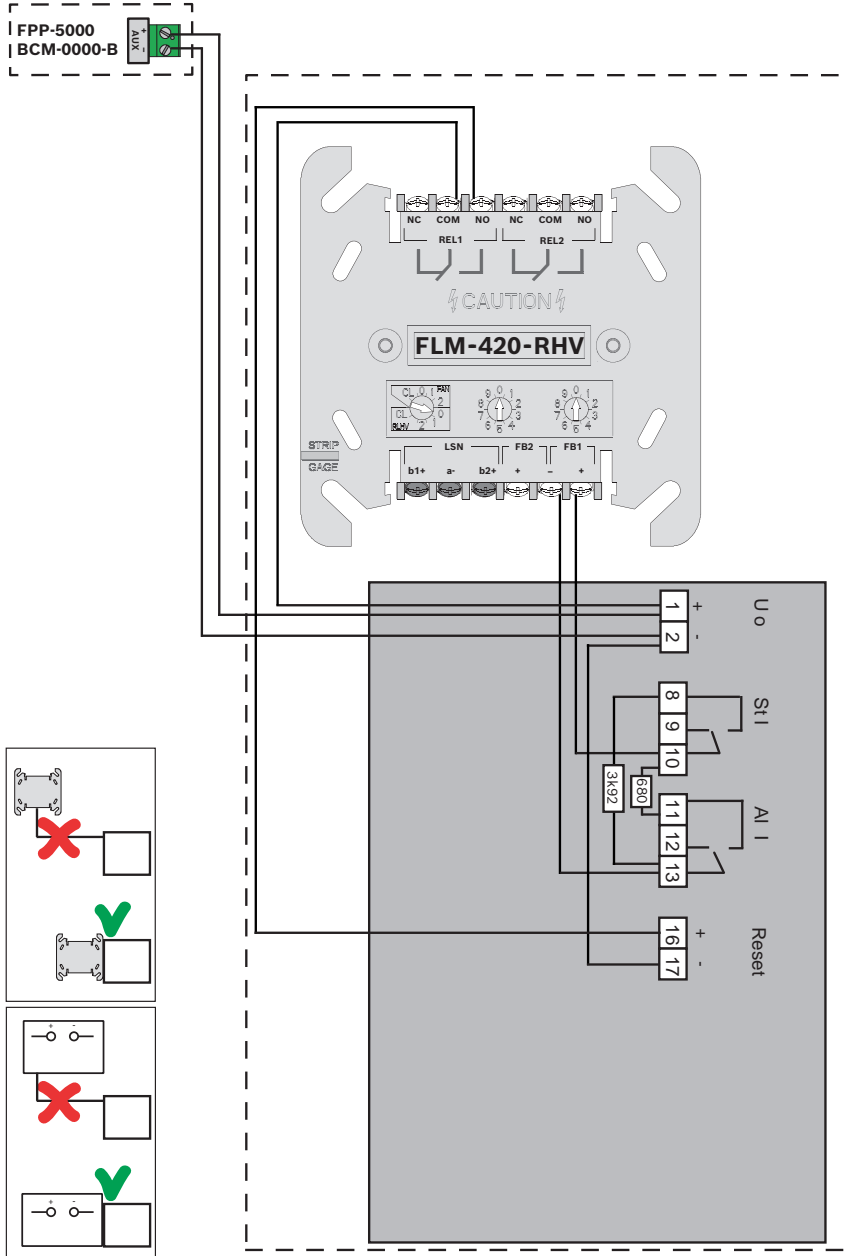




ADW 535-1

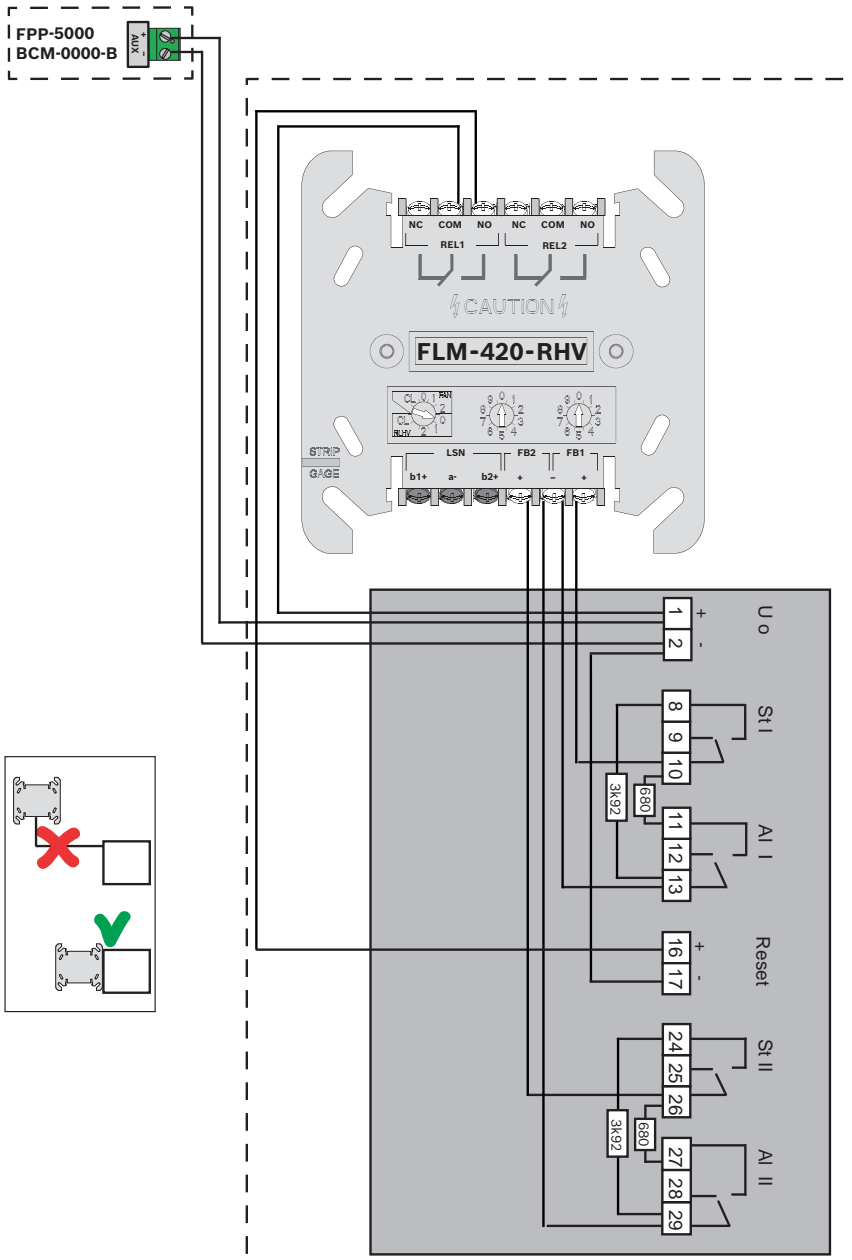


ELS





ADW 535-2

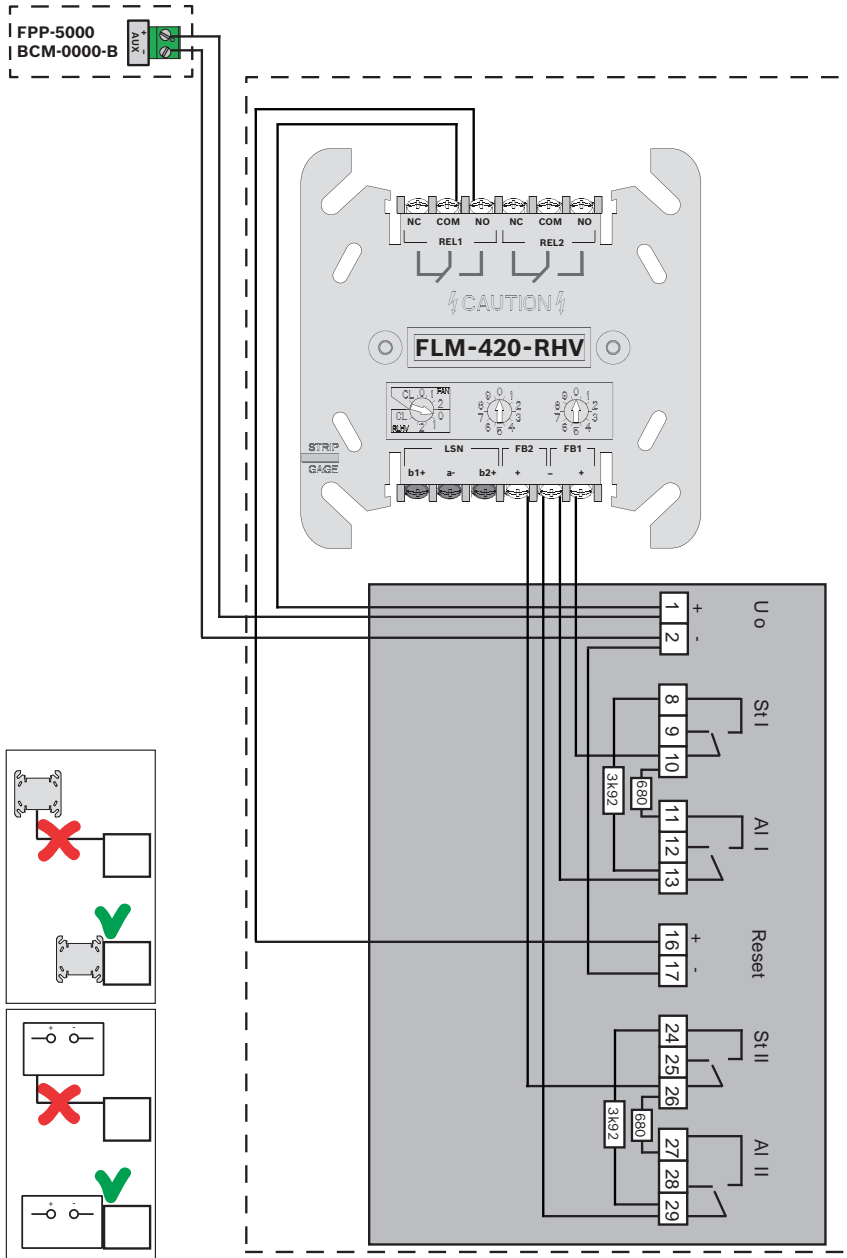




ADW 535-2

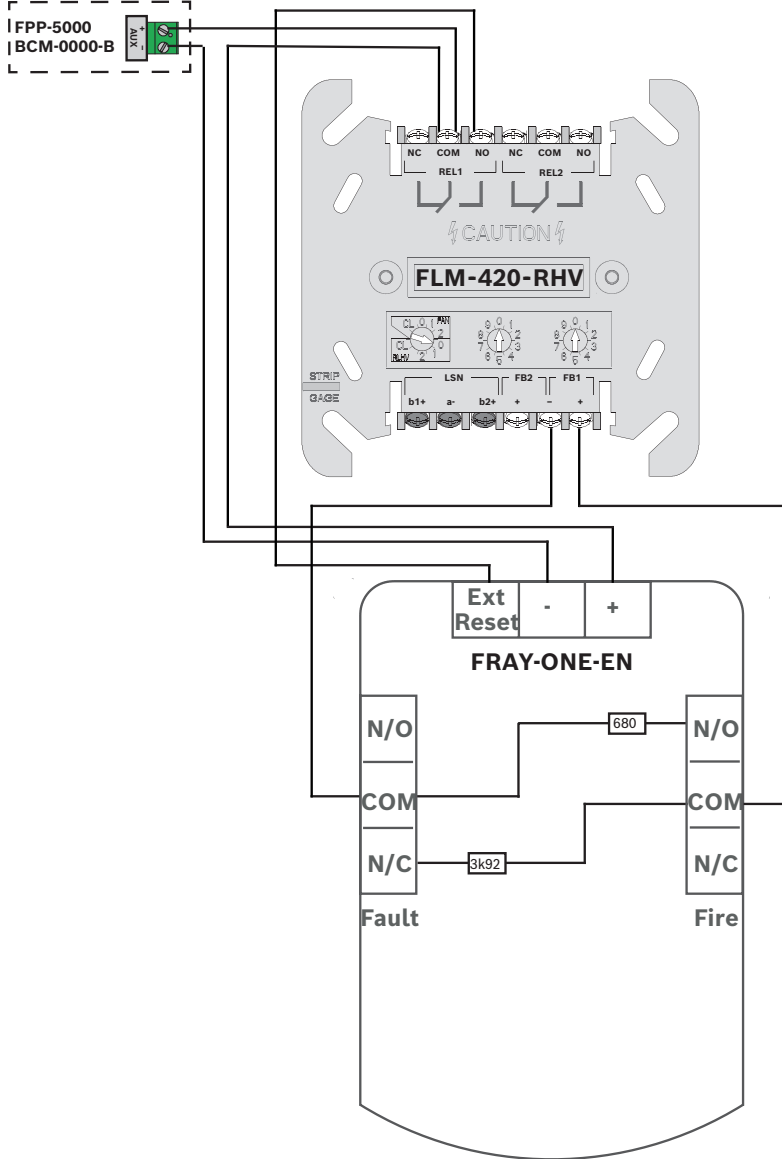


ELS





**Fireray One**

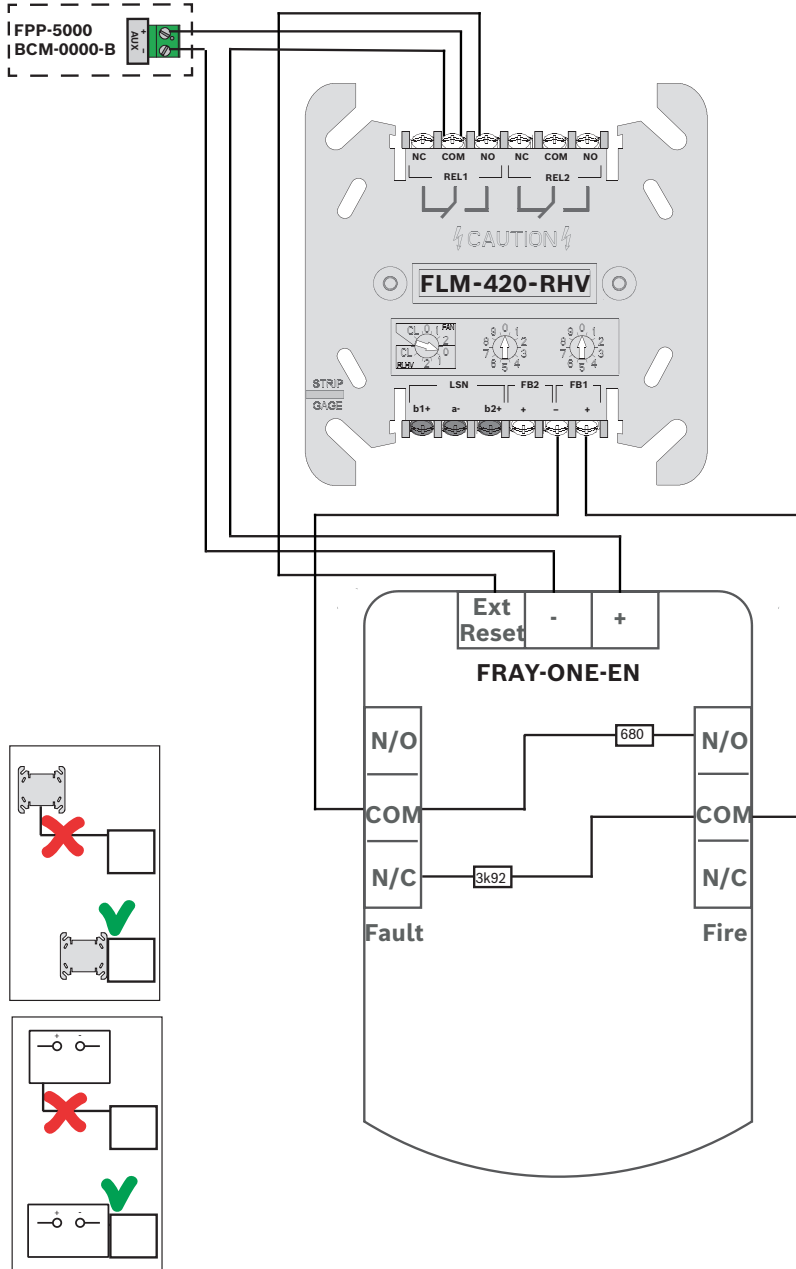




Fireray One



ELS

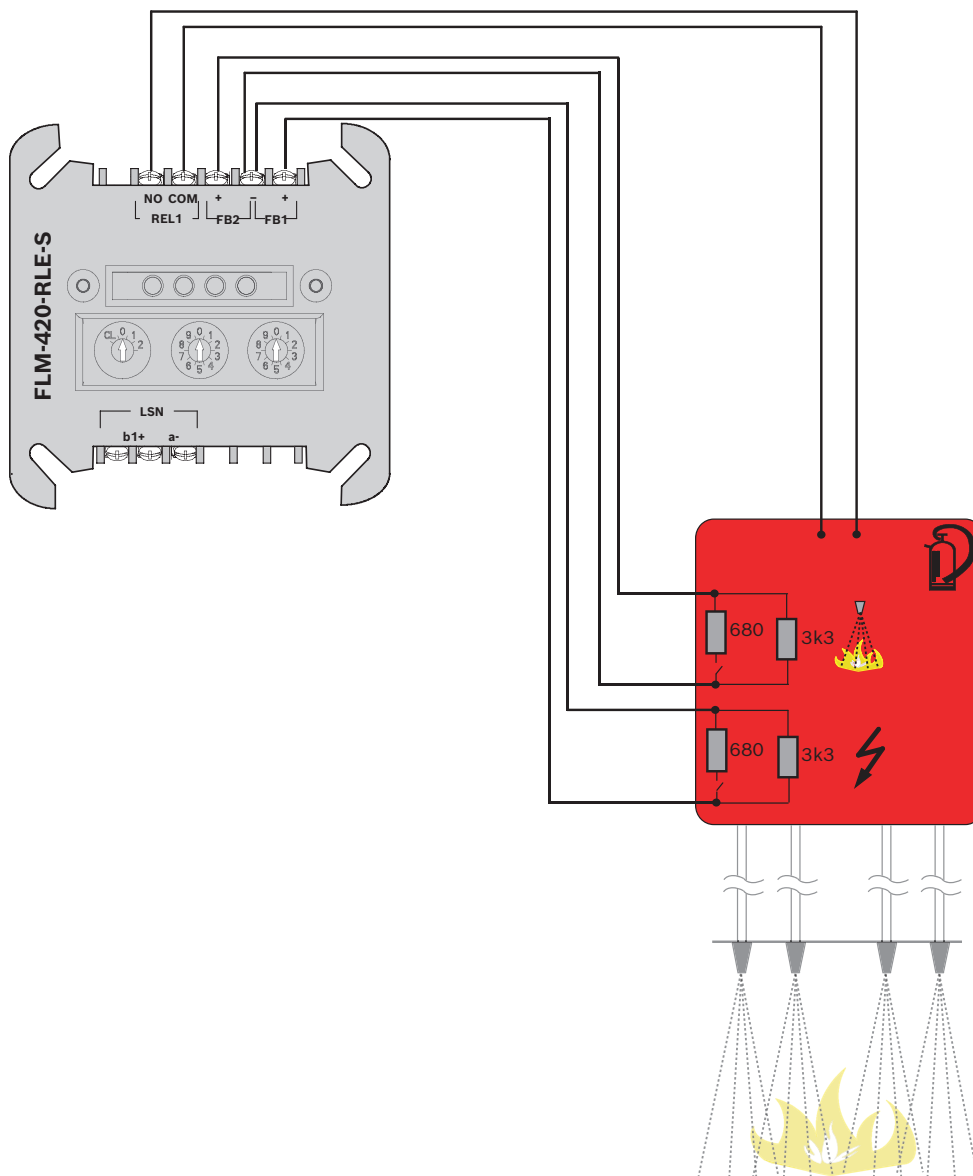


2.5.5

FLM-420-RLE-S

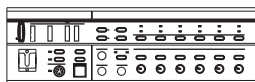
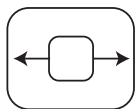


VdS 2496

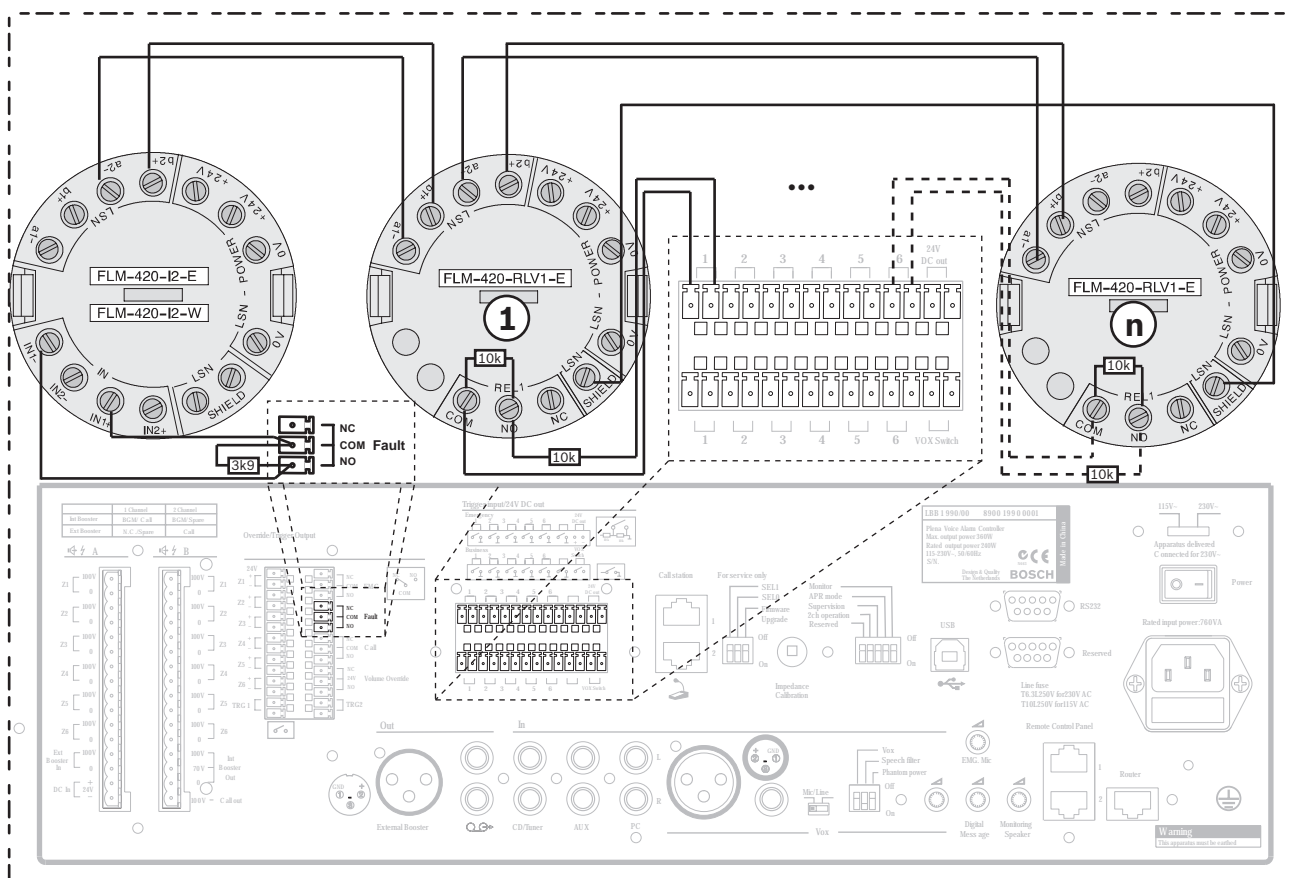




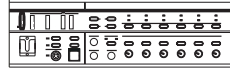
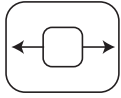
### 2.5.6 FLM-420-RLV1-E



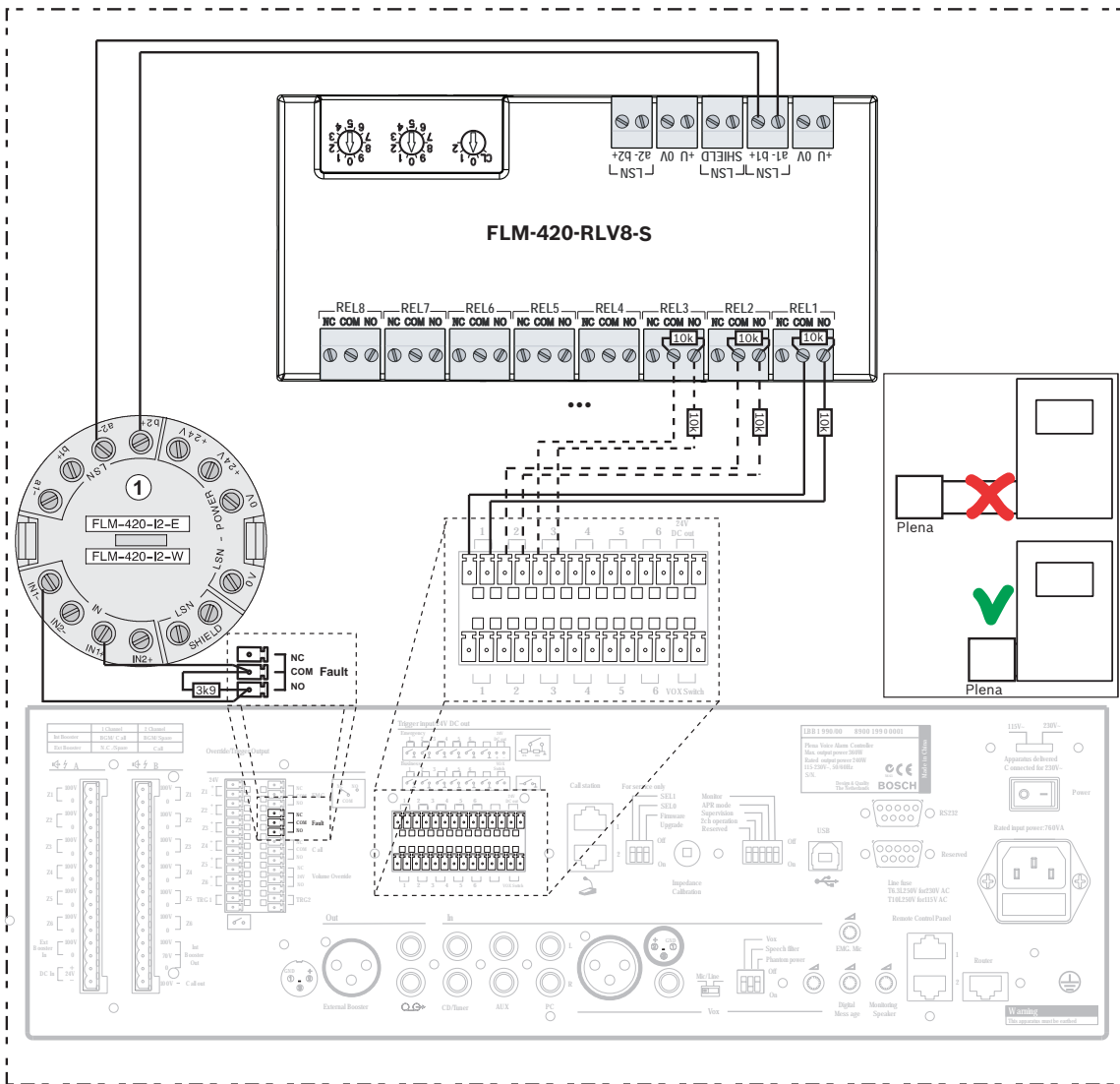
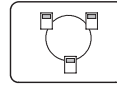
Plena



### 2.5.7 FLM-420-RLV8-S



Plena



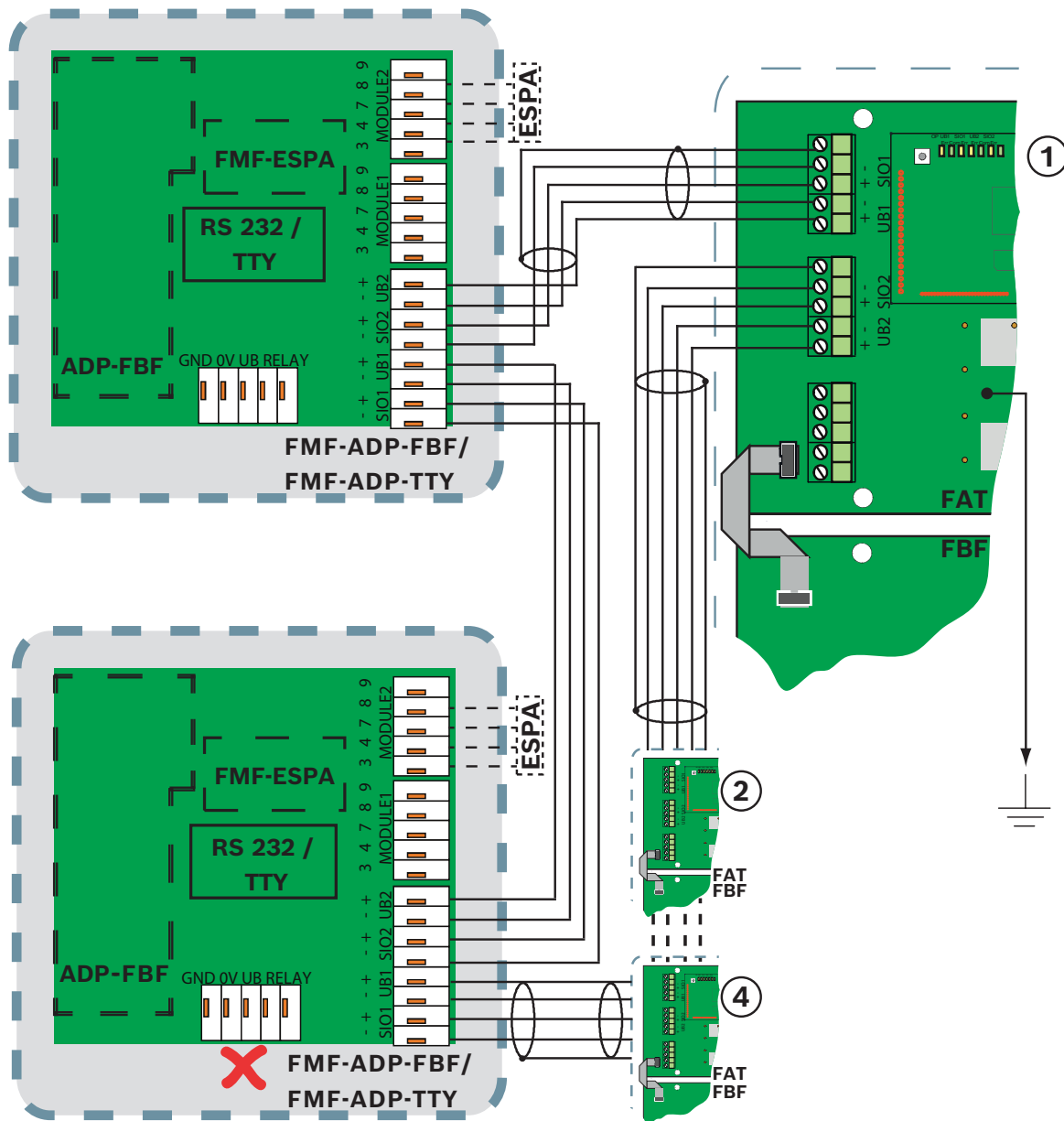
### 2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS



## 2.6

### EOL



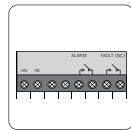
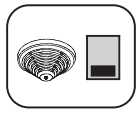
*CZM 0004 A, Strona 189*

*LSN 0300 A, Strona 201*

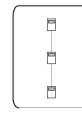
*FLM-420/4-CON-S/D, Strona 246*

2.6.1

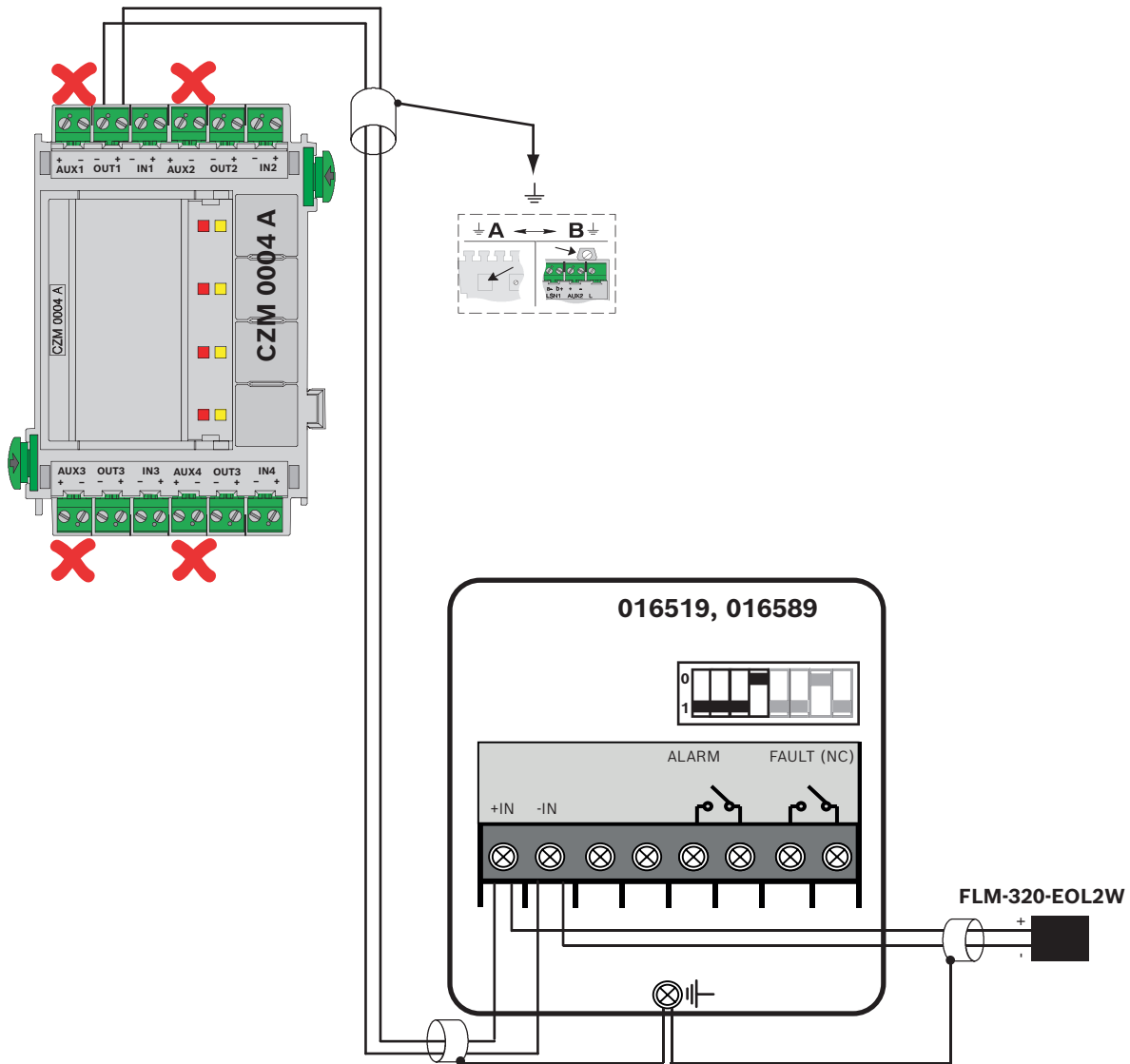
CZM 0004 A

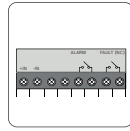


016519, 016589  
IR3 Flame Detector

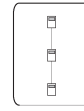


ELS

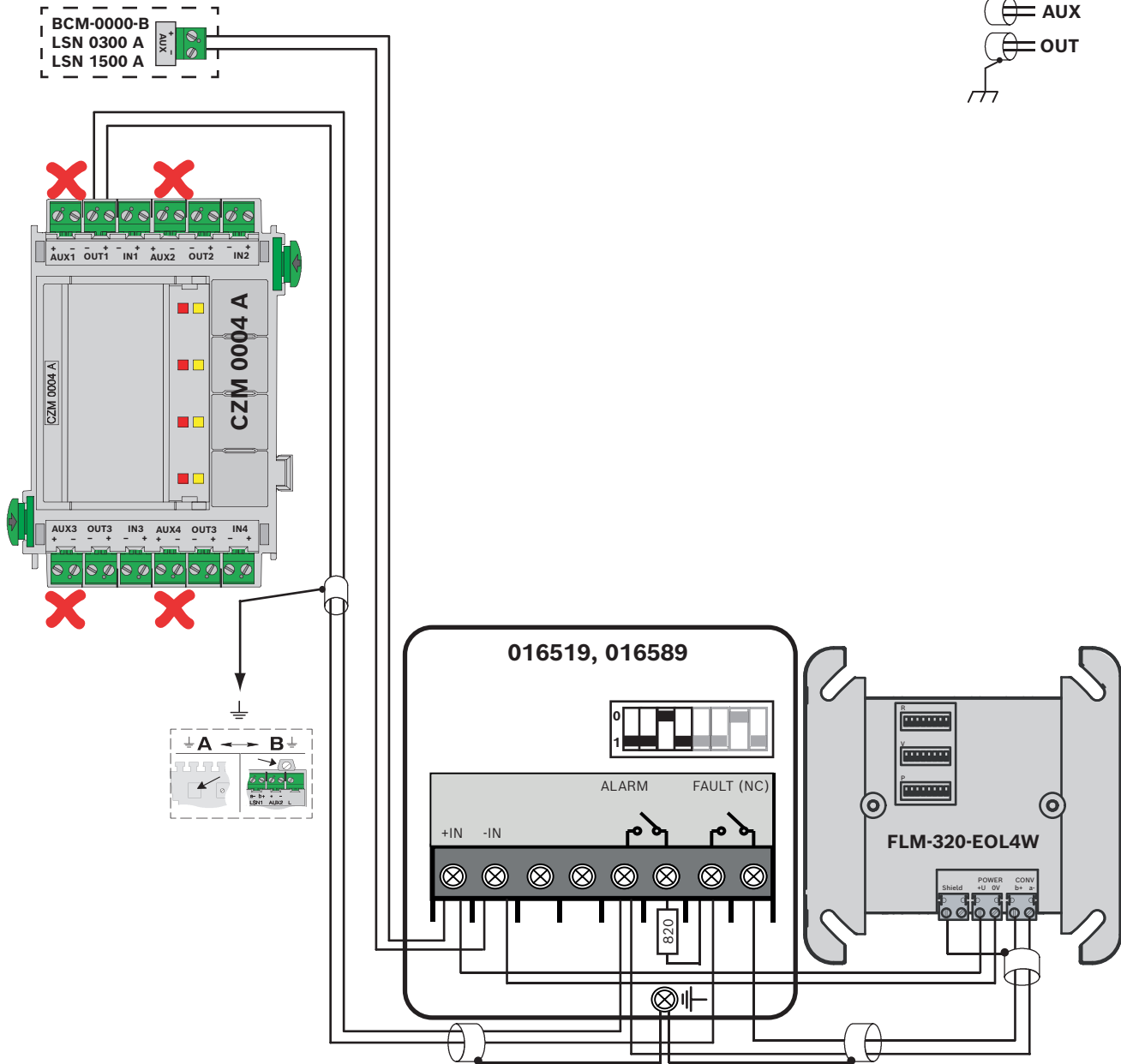




**016519, 016589  
IR3 Flame Detector**



**ELS**

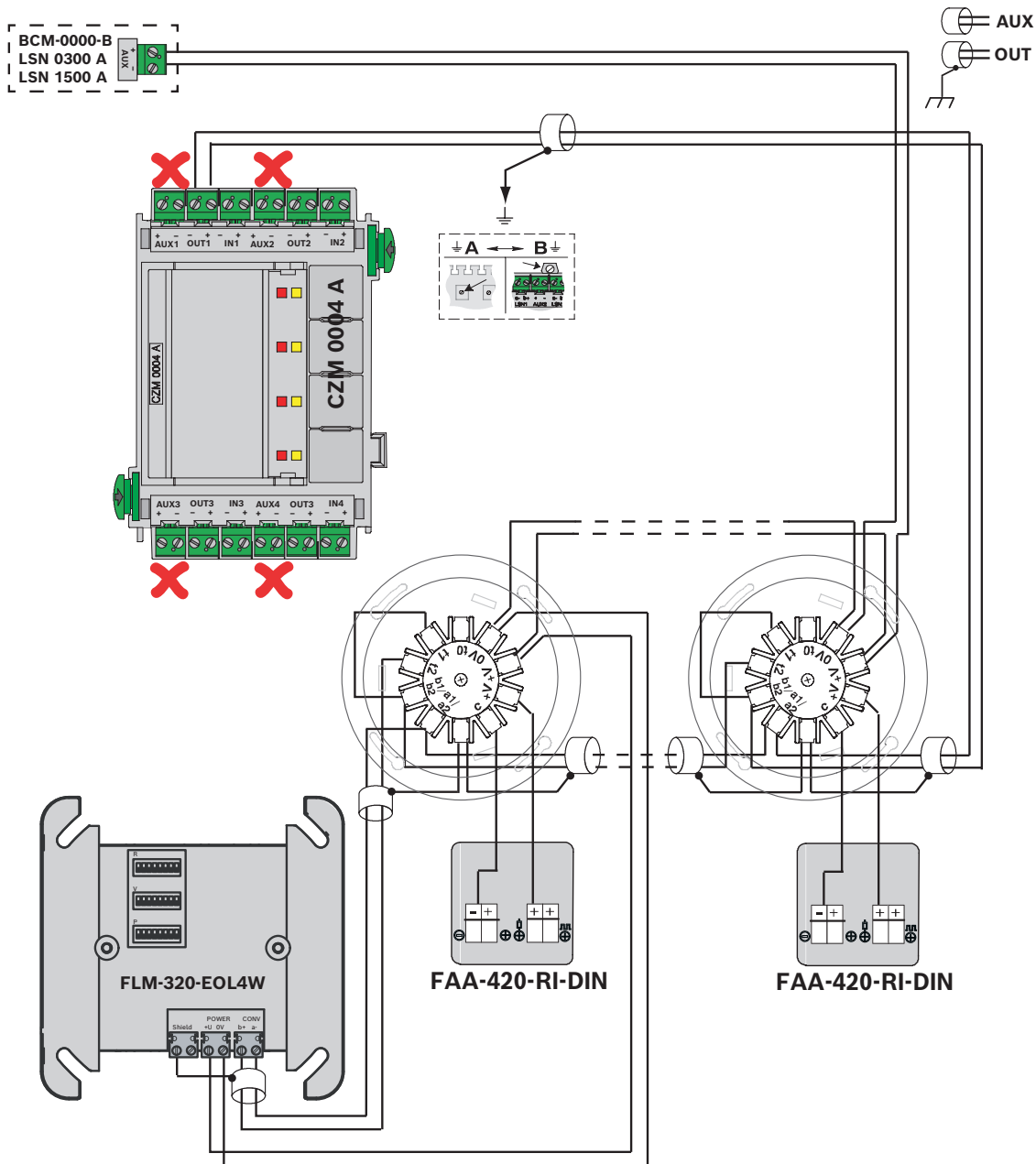


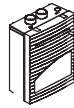


FCA-500-EU  
FCP-O 500  
FCP-O 500-P  
FCP-OC 500  
FCP-OC 500-P

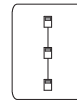


ELS



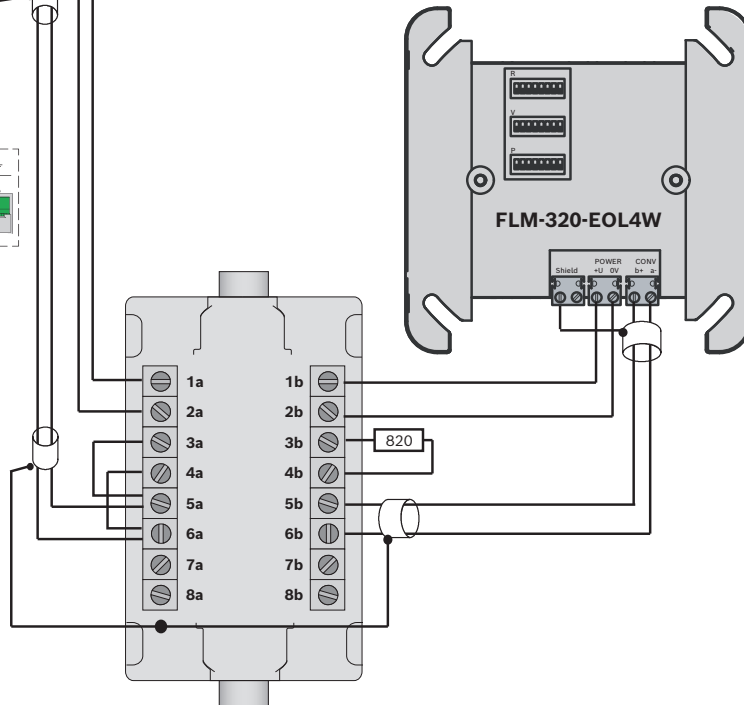
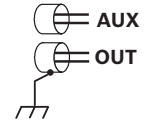
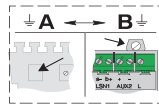
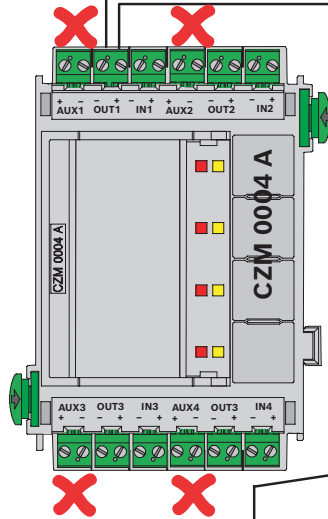


FCS-320-TM Series

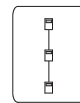


ELS

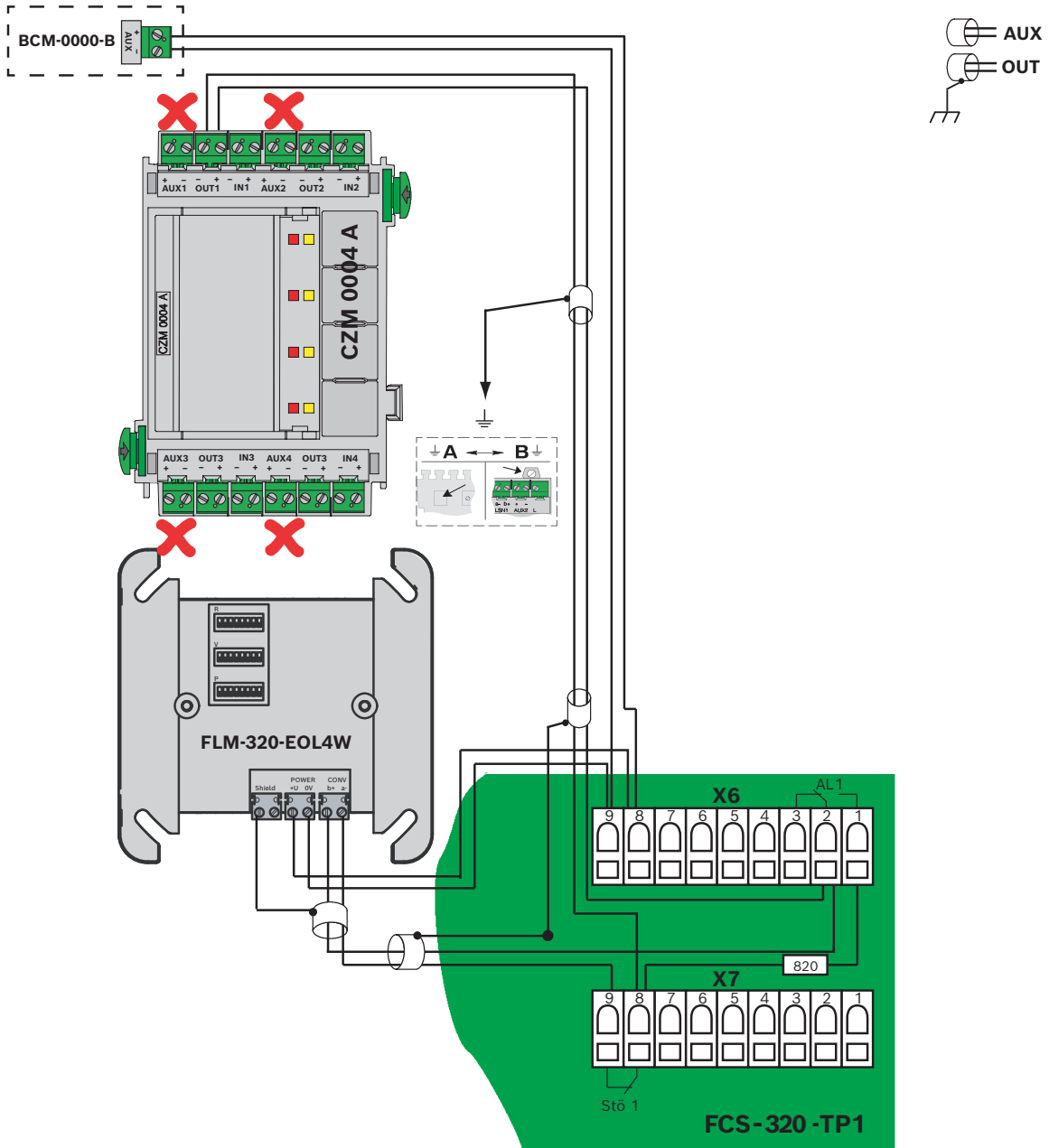
BCM-0000-B  
LSN 0300 A  
LSN 1500 A

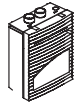






ELS

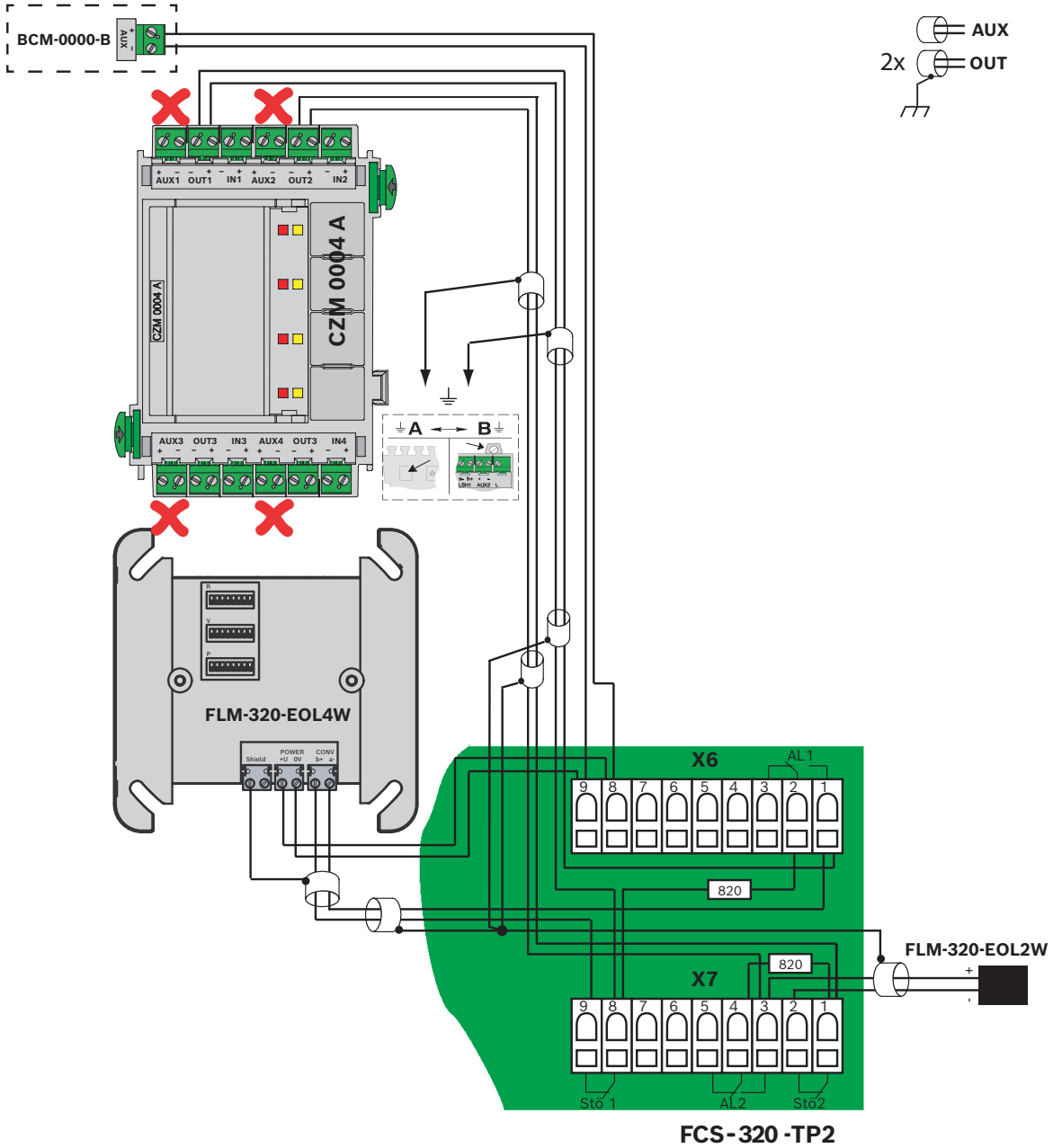




FCS-320-TP2



ELS





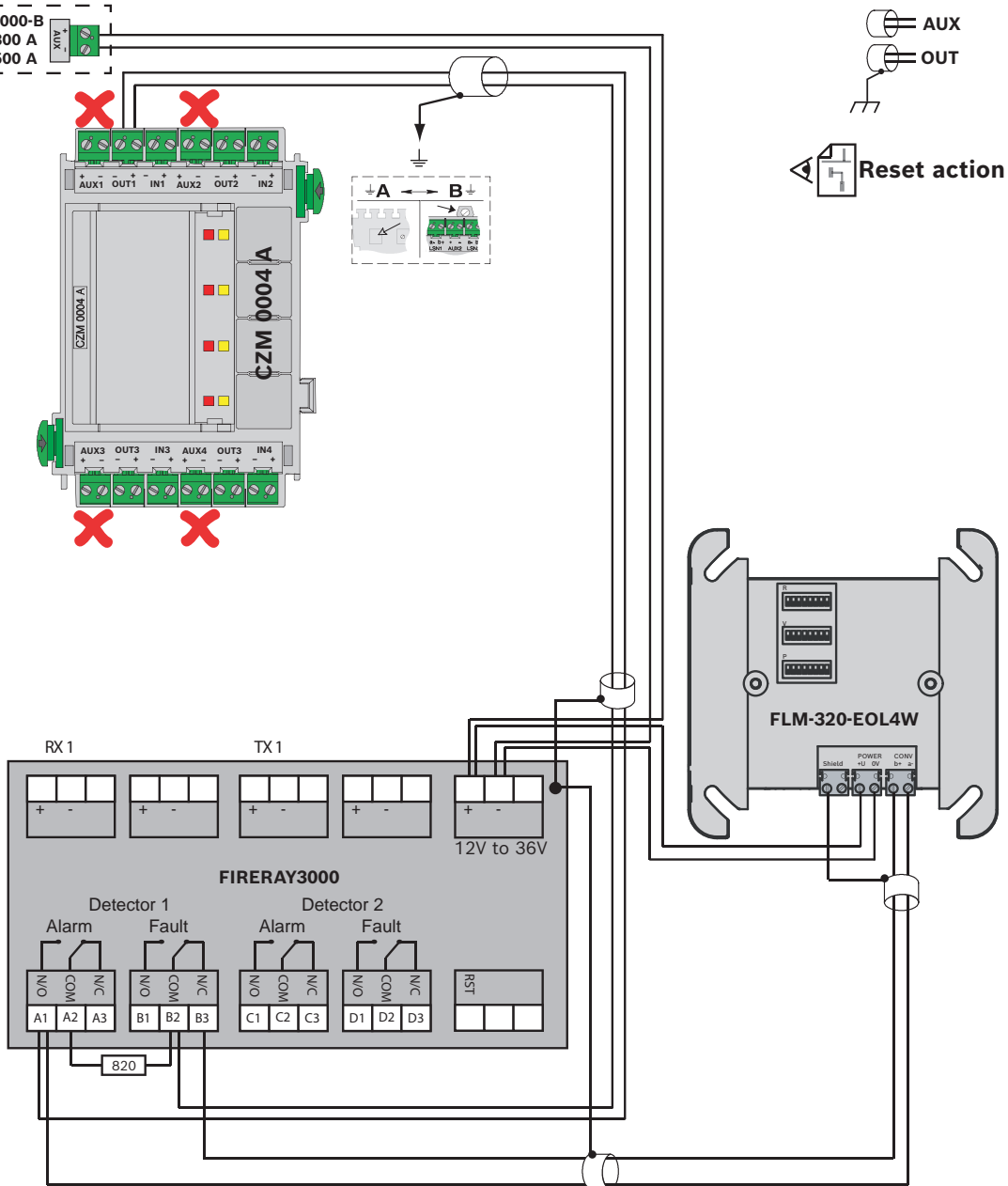
**FIRERAY3000**

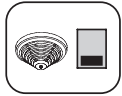
1 x



**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



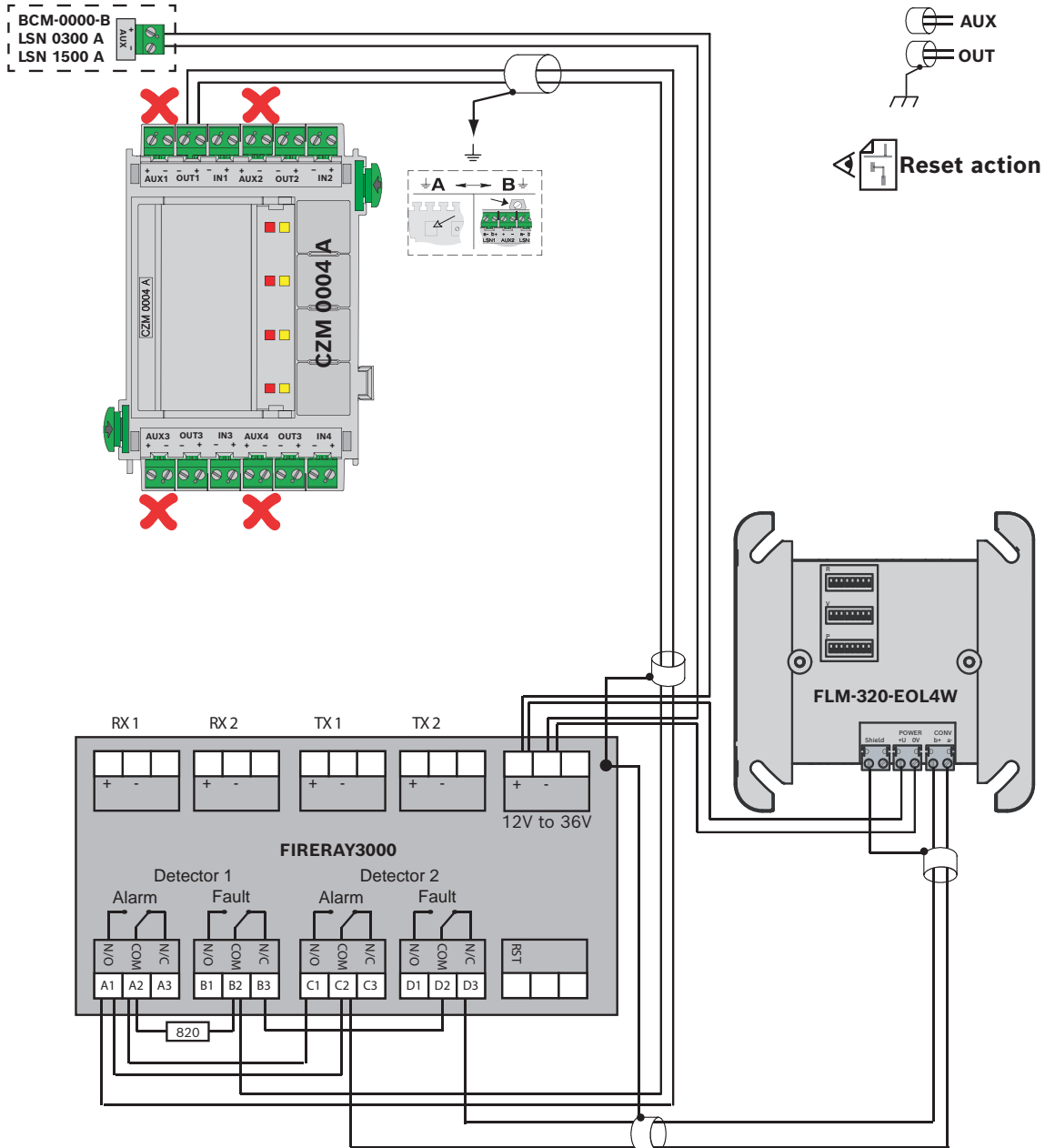


**FIRERAY3000**

2 x  **OUT1**



**ELS**



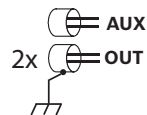
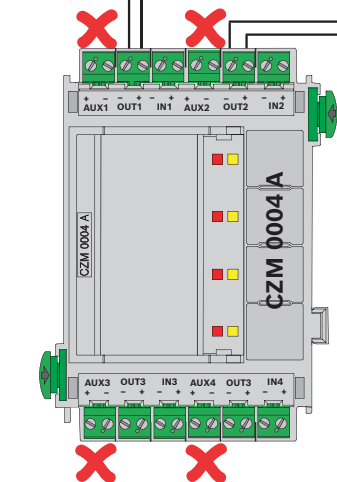


**FIRERAY3000**  
2 x **OUT1+2**

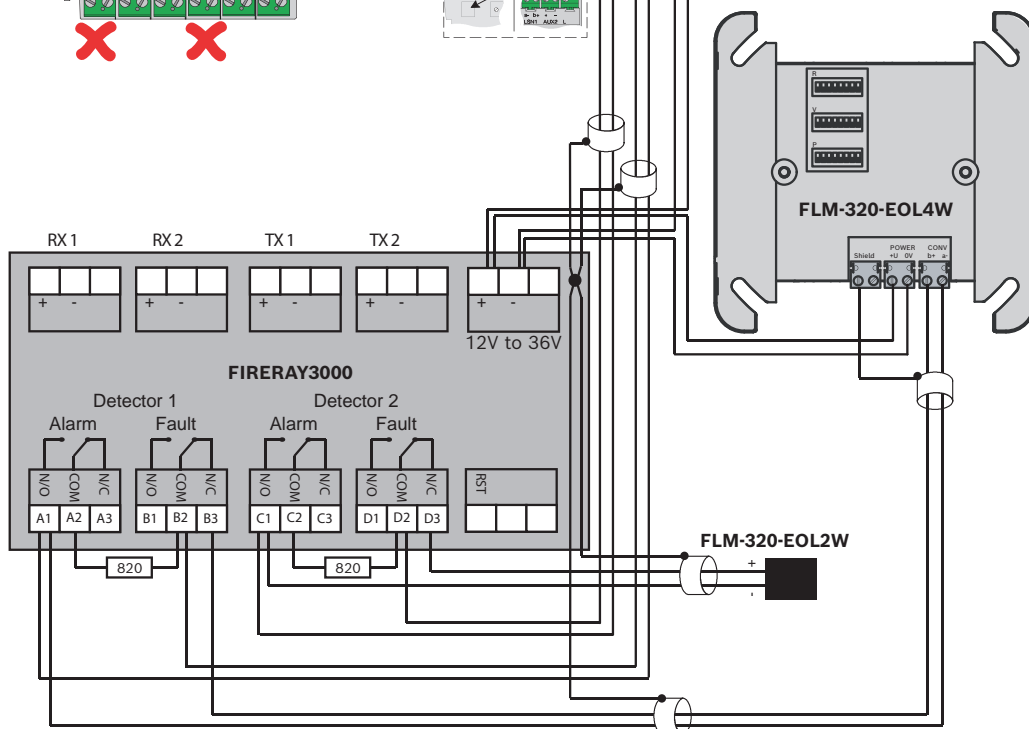
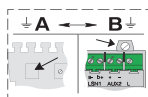


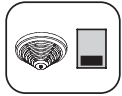
**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



**Reset action**



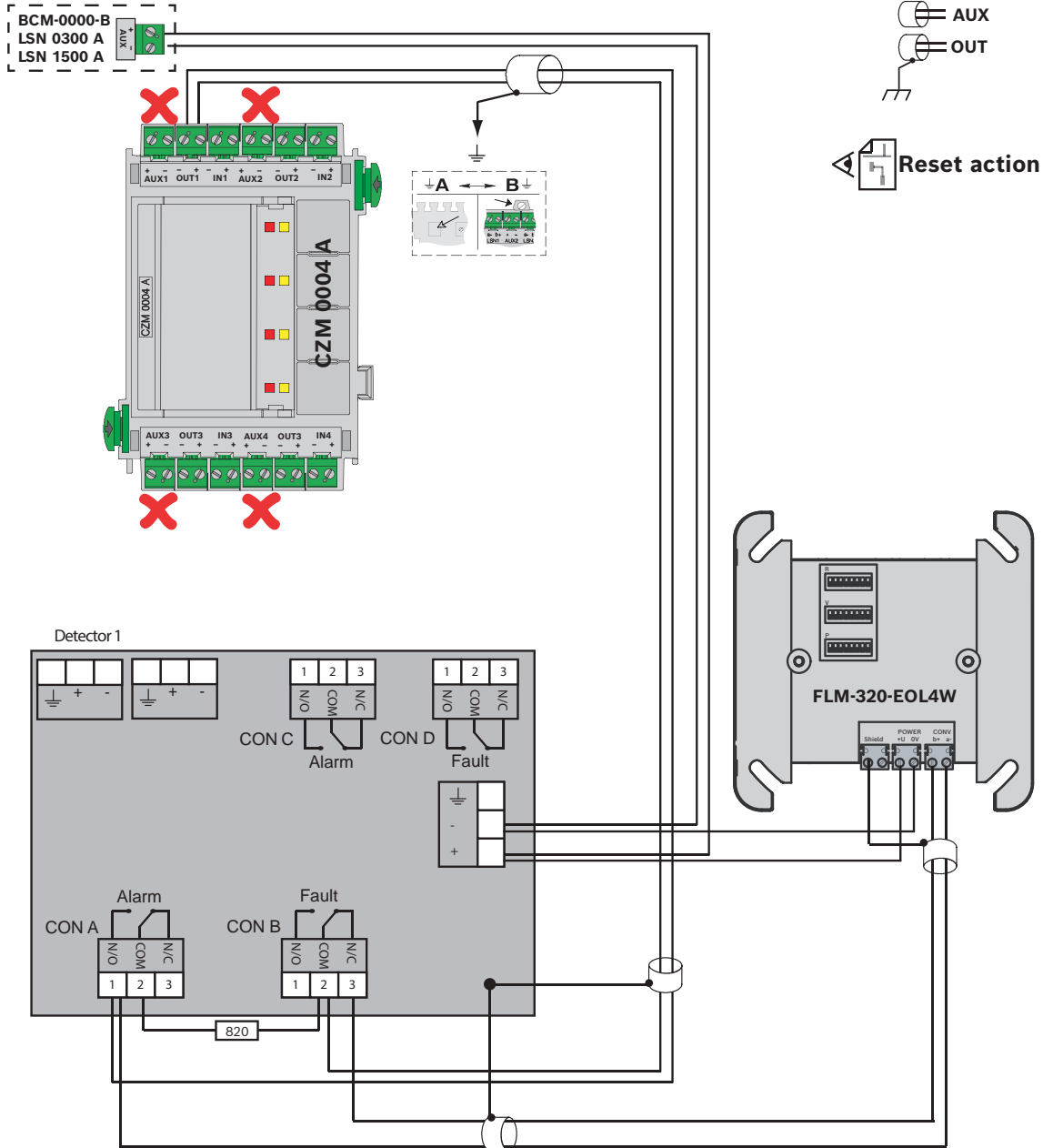


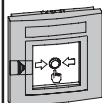
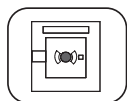
**FIRERAY5000**

1 x

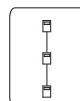


**ELS**

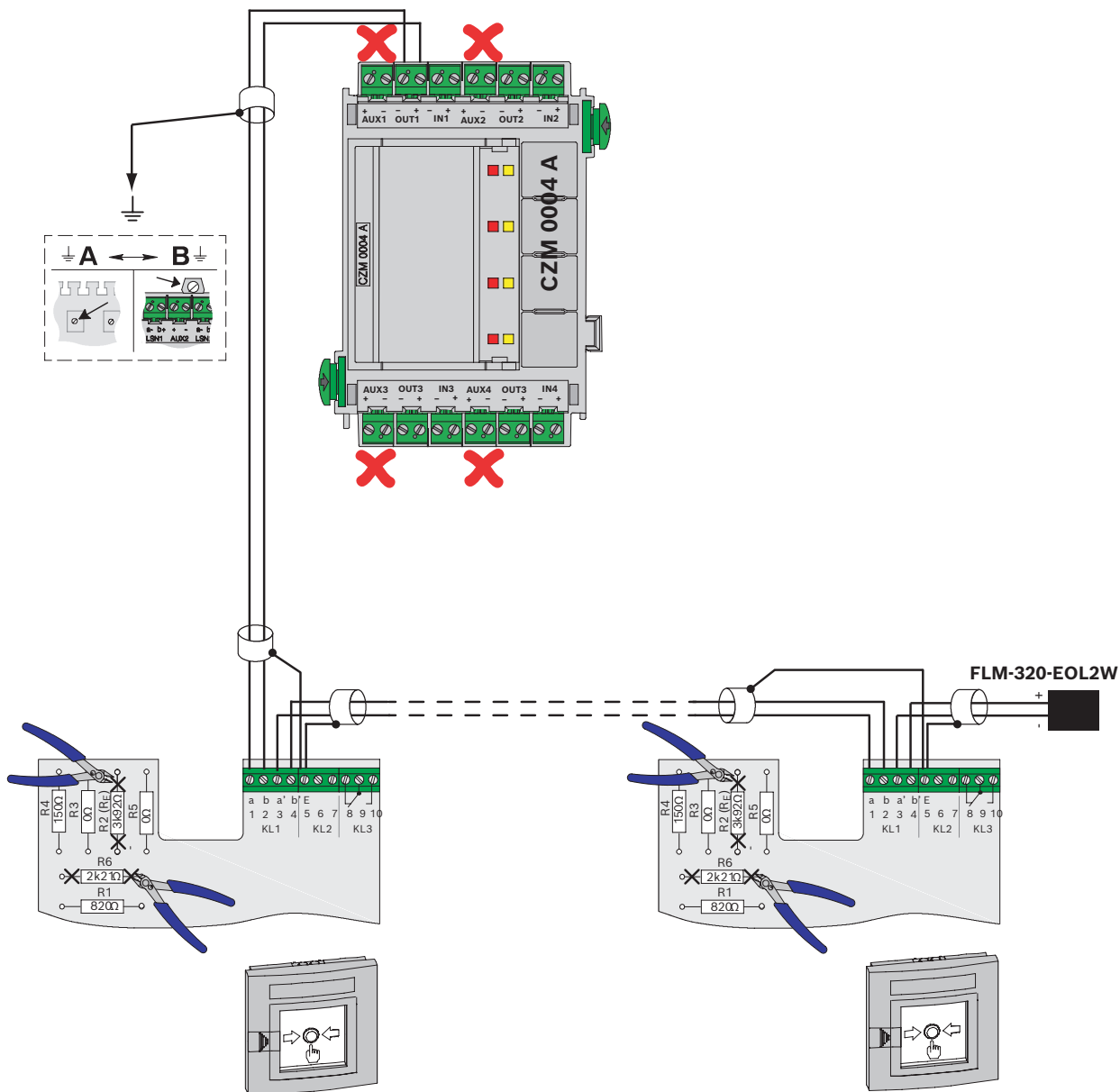




FMC-120-DKM-G-R  
 FMC-120-DKM-H-R  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B  
 FMC-120-DKM-G-Y



ELS

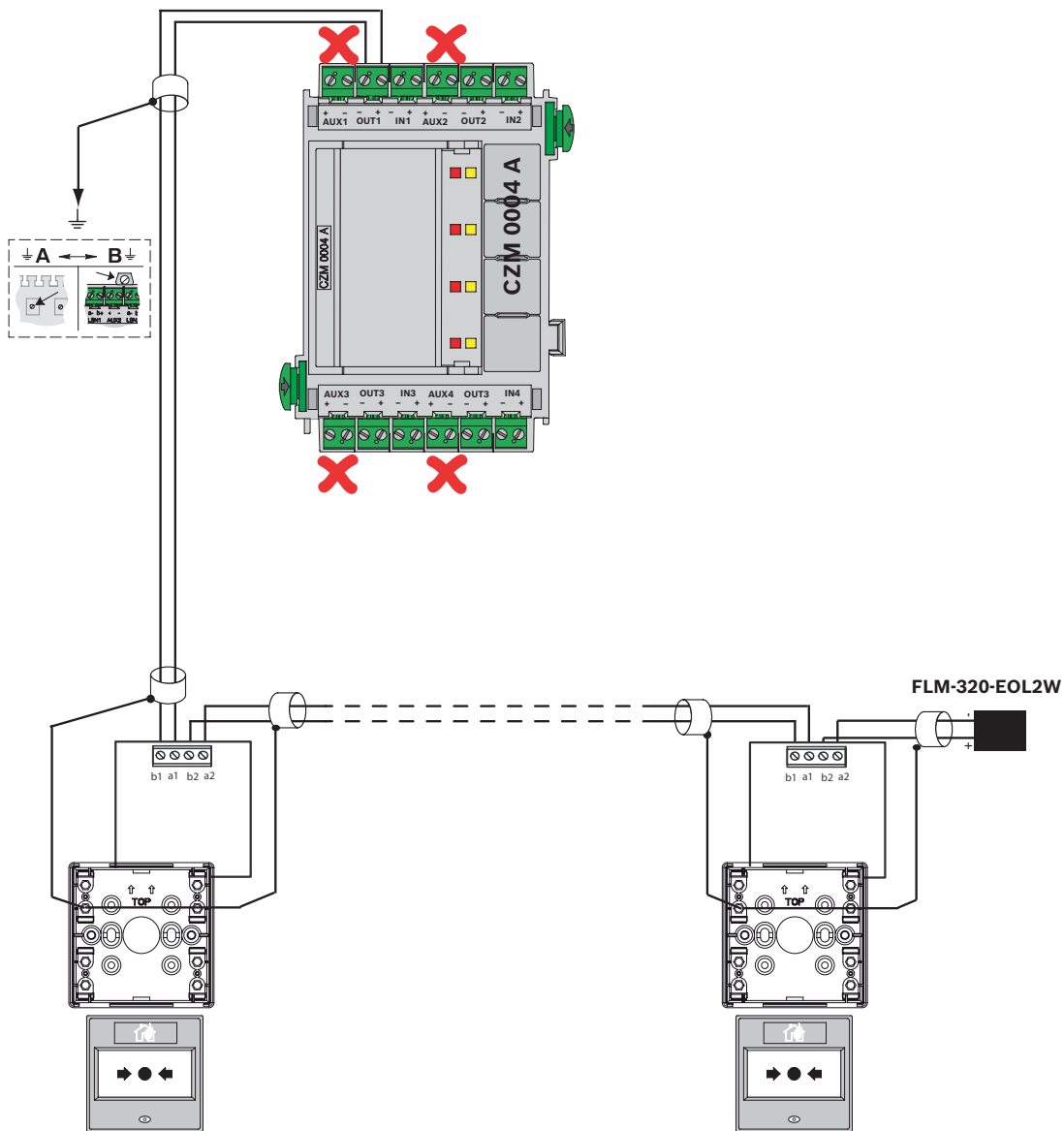




FMC-300RW-GSGBU  
FMC-300RW-GSRBU  
FMC-300RW-GSGRD  
FMC-300RW-GSRRD  
FMC-300RW-GSGYE  
FMC-300RW-GSRYE

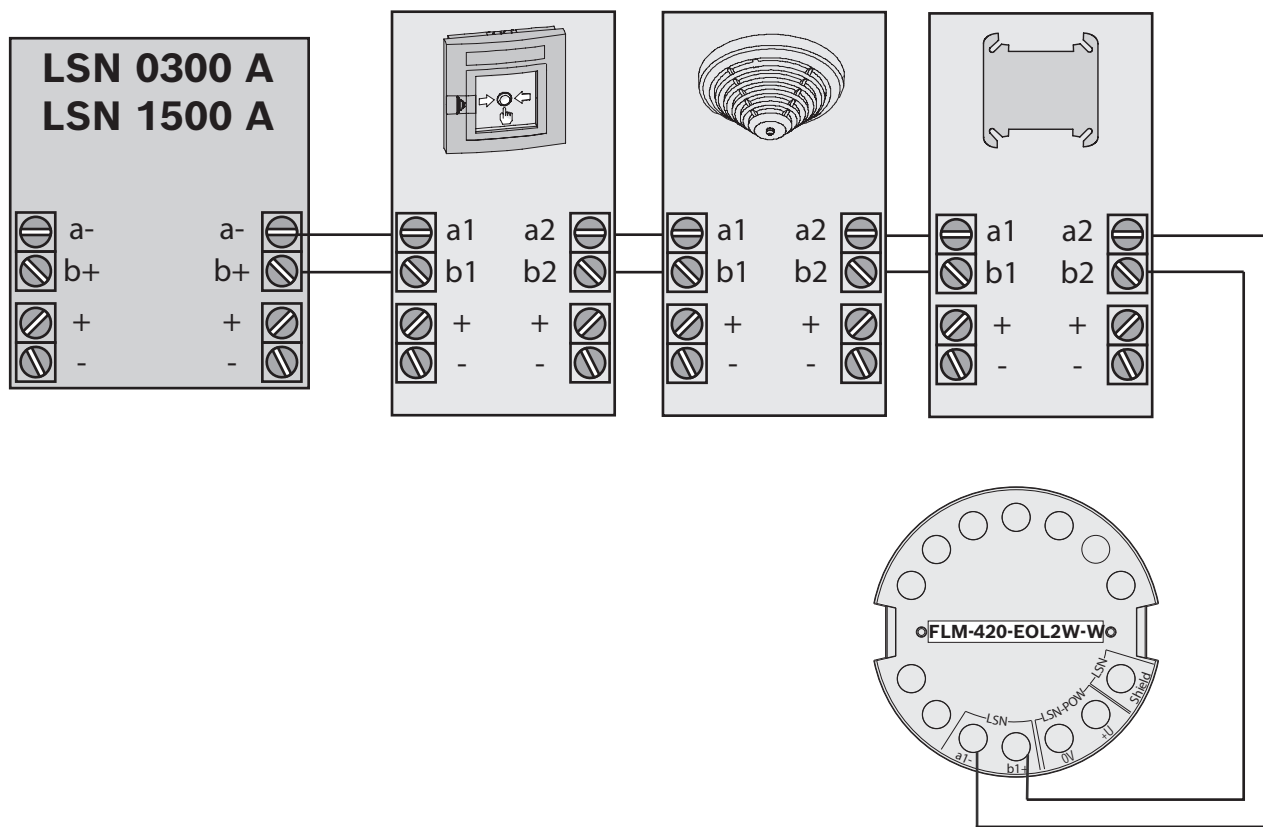
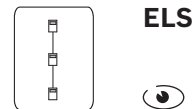


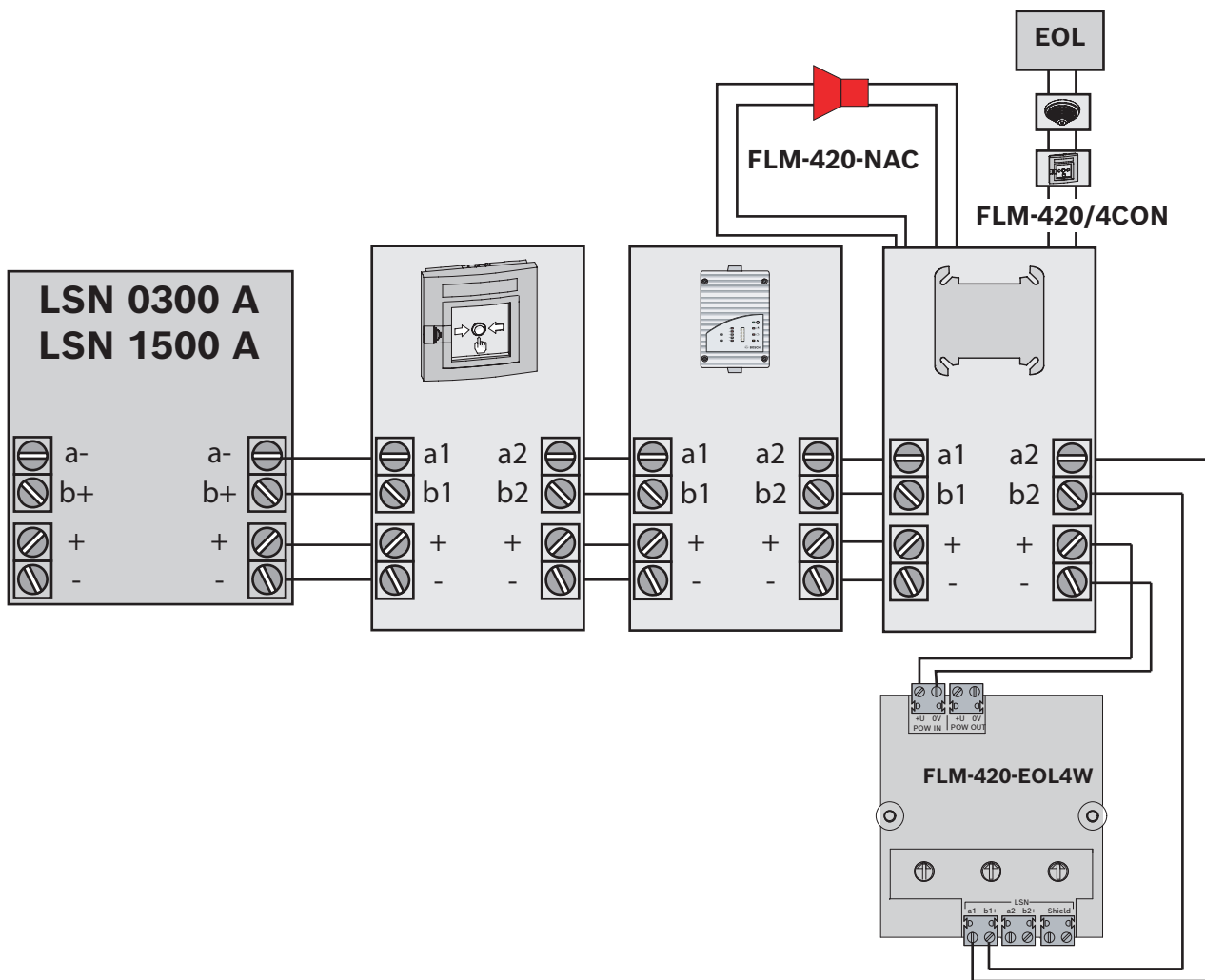
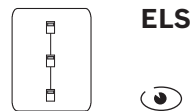
ELS

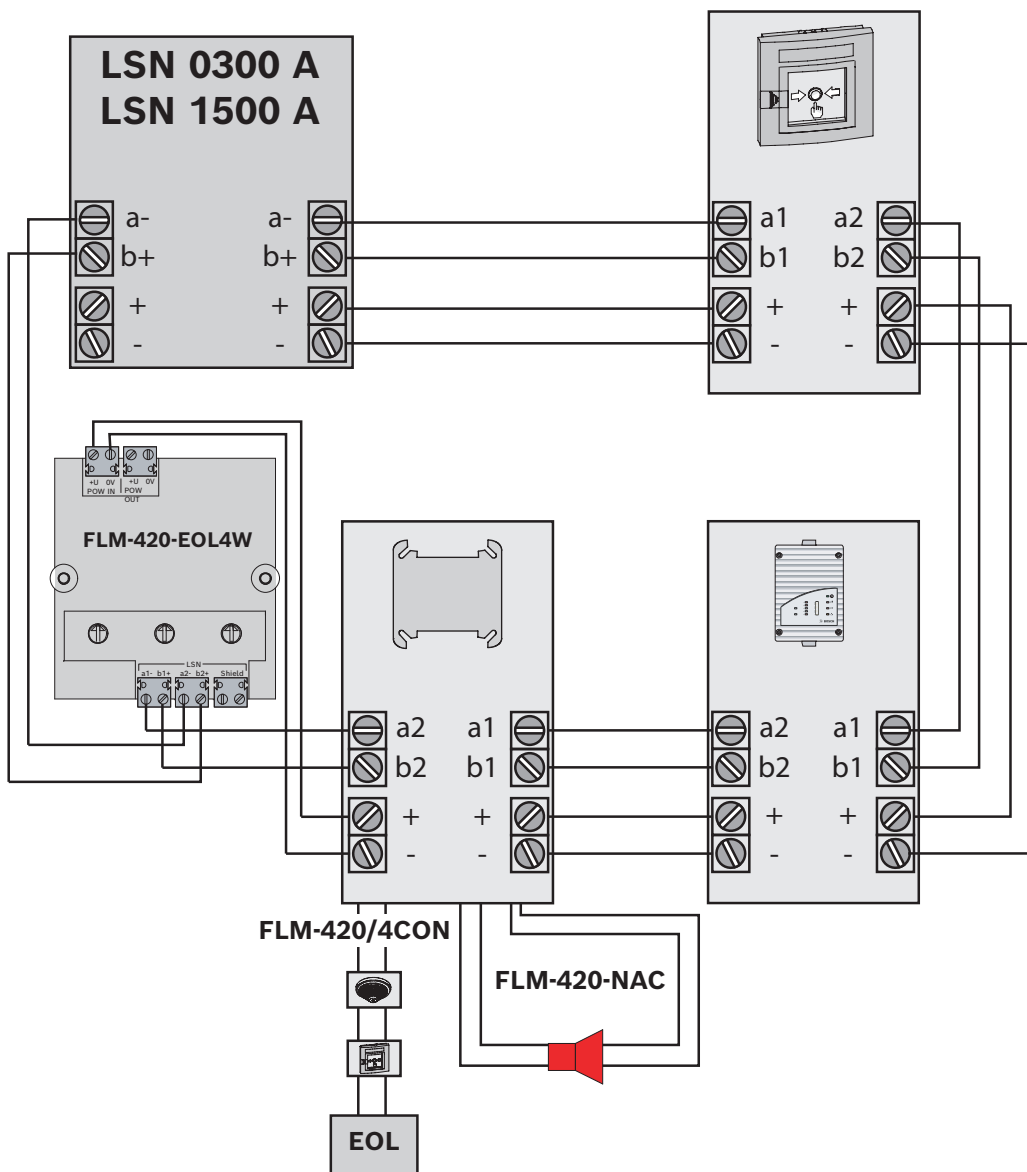
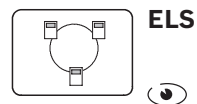




2.6.2 LSN 0300 A

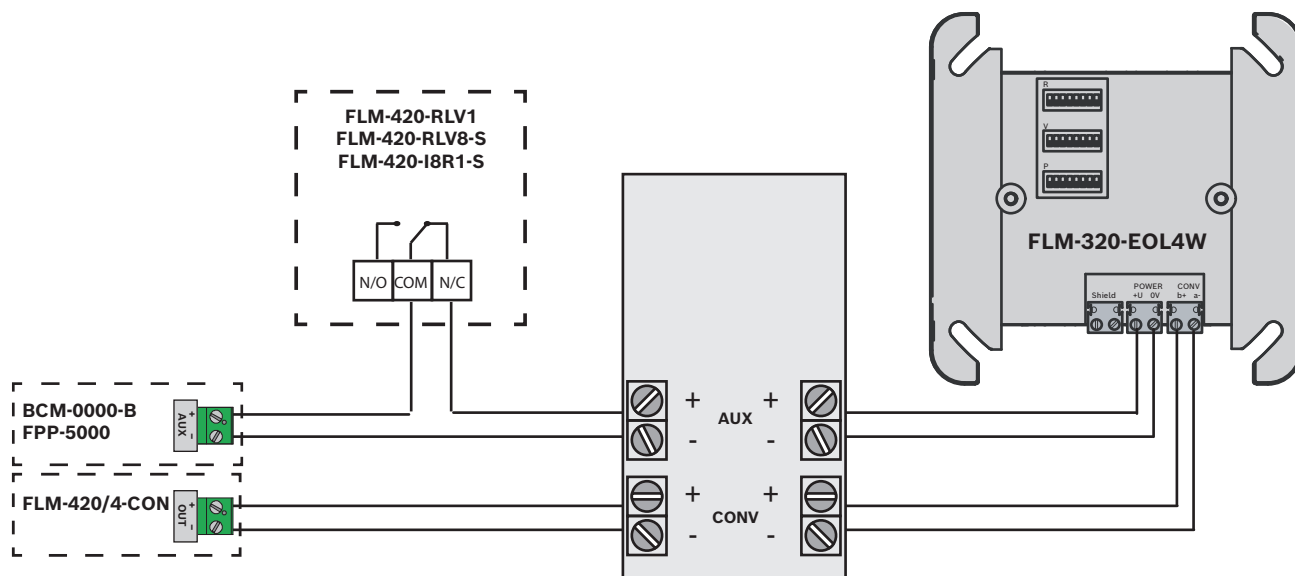


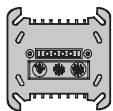
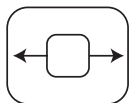




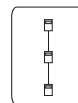
Reset action

ELS

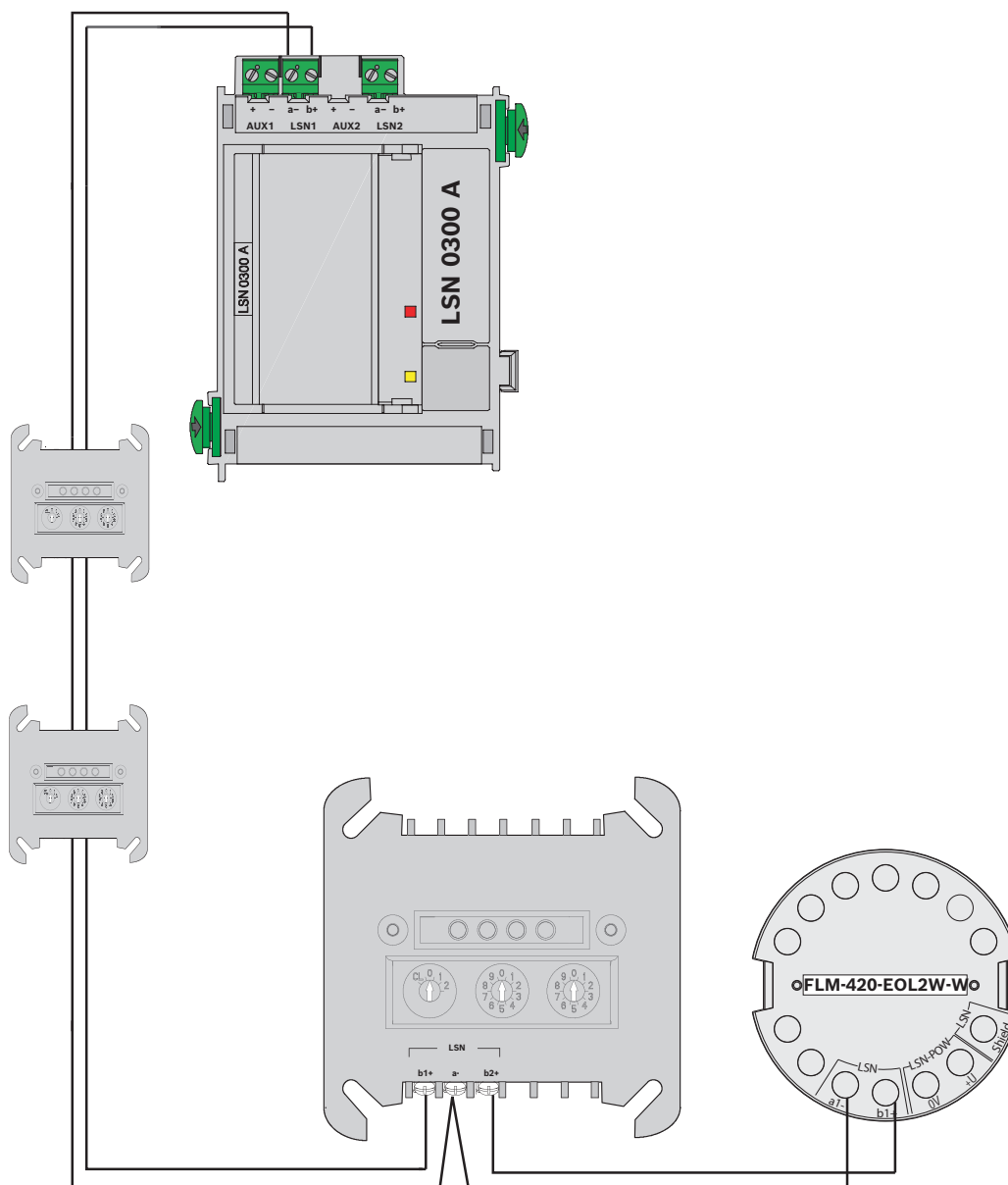




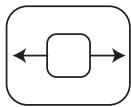
FLM-420-I2-D  
 FLM-420-O1I1-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D



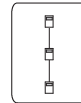
ELS



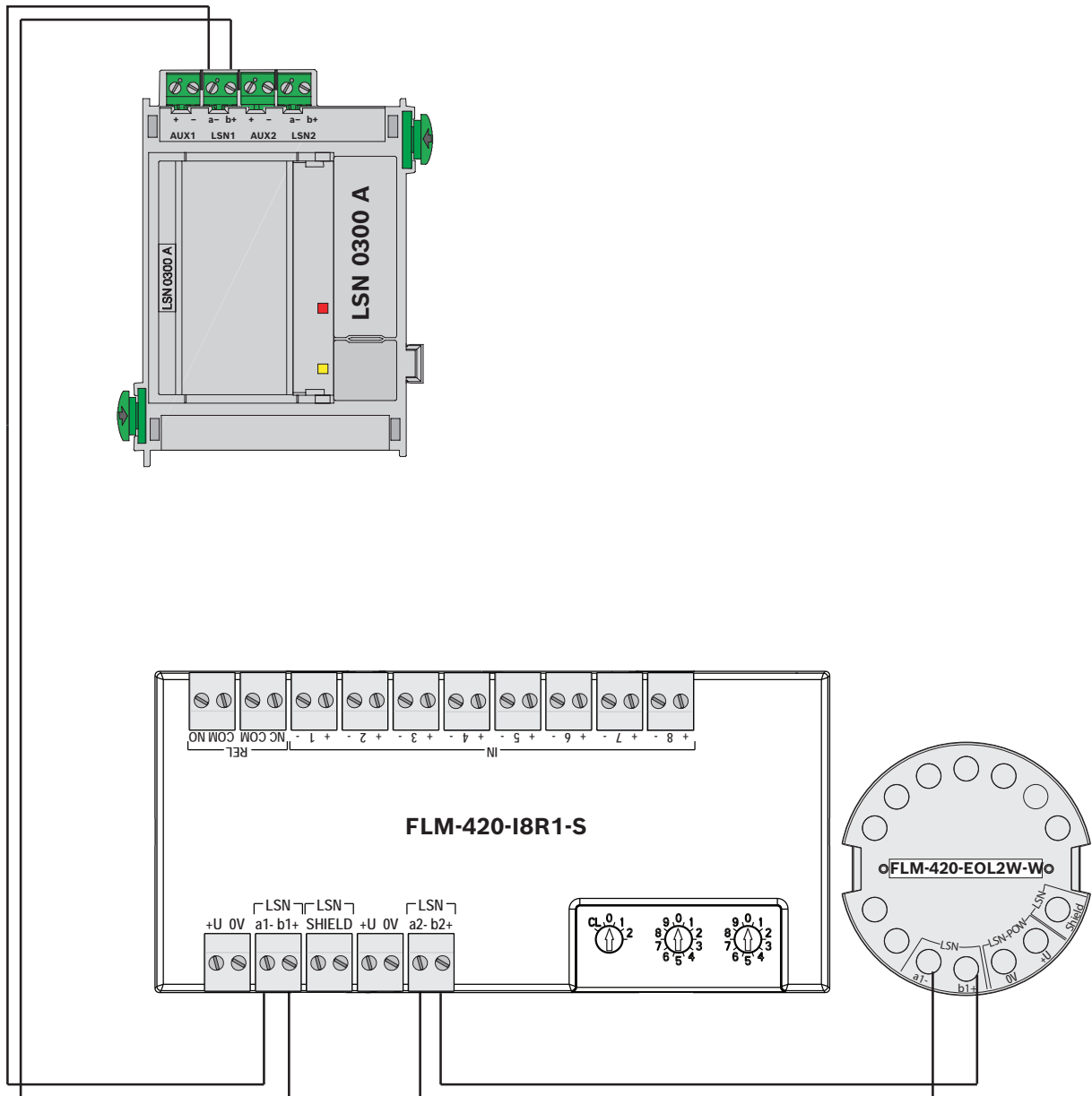


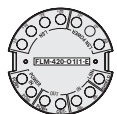
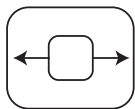


**FLM-420-I8R1-S**

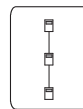


**ELS**

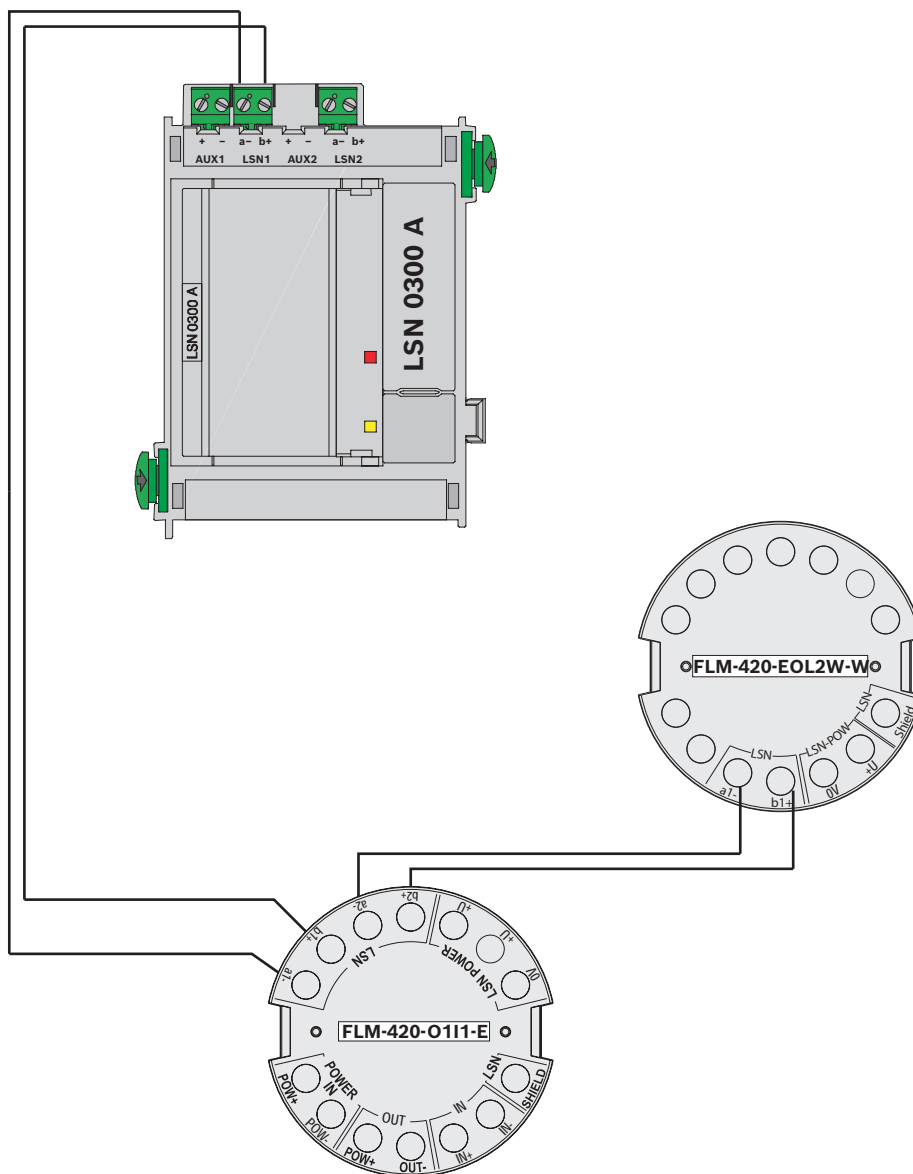




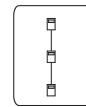
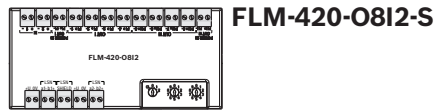
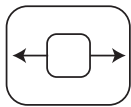
FLM-420-O1I1-E



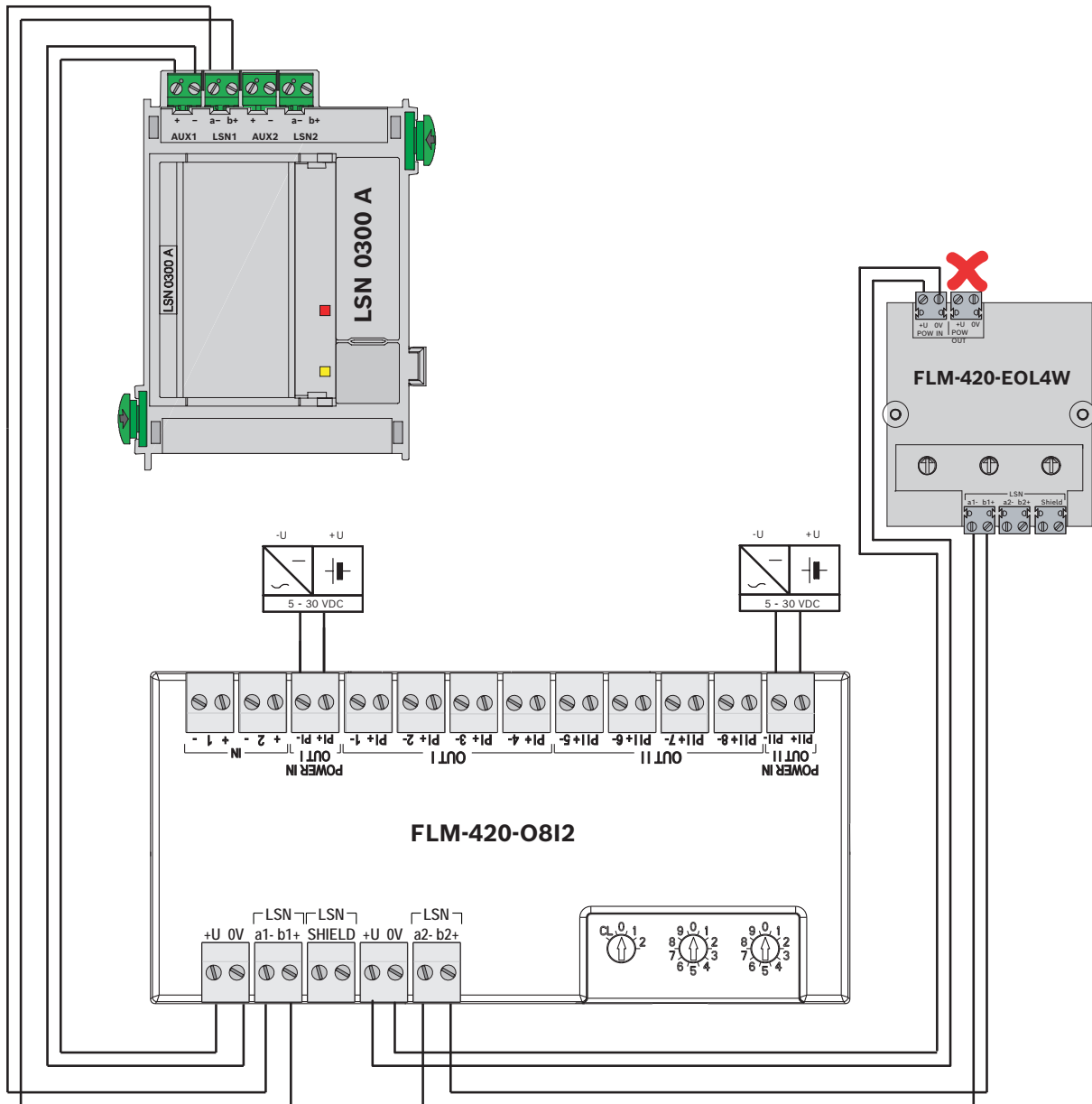
ELS

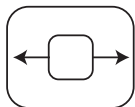




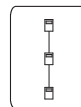


ELS

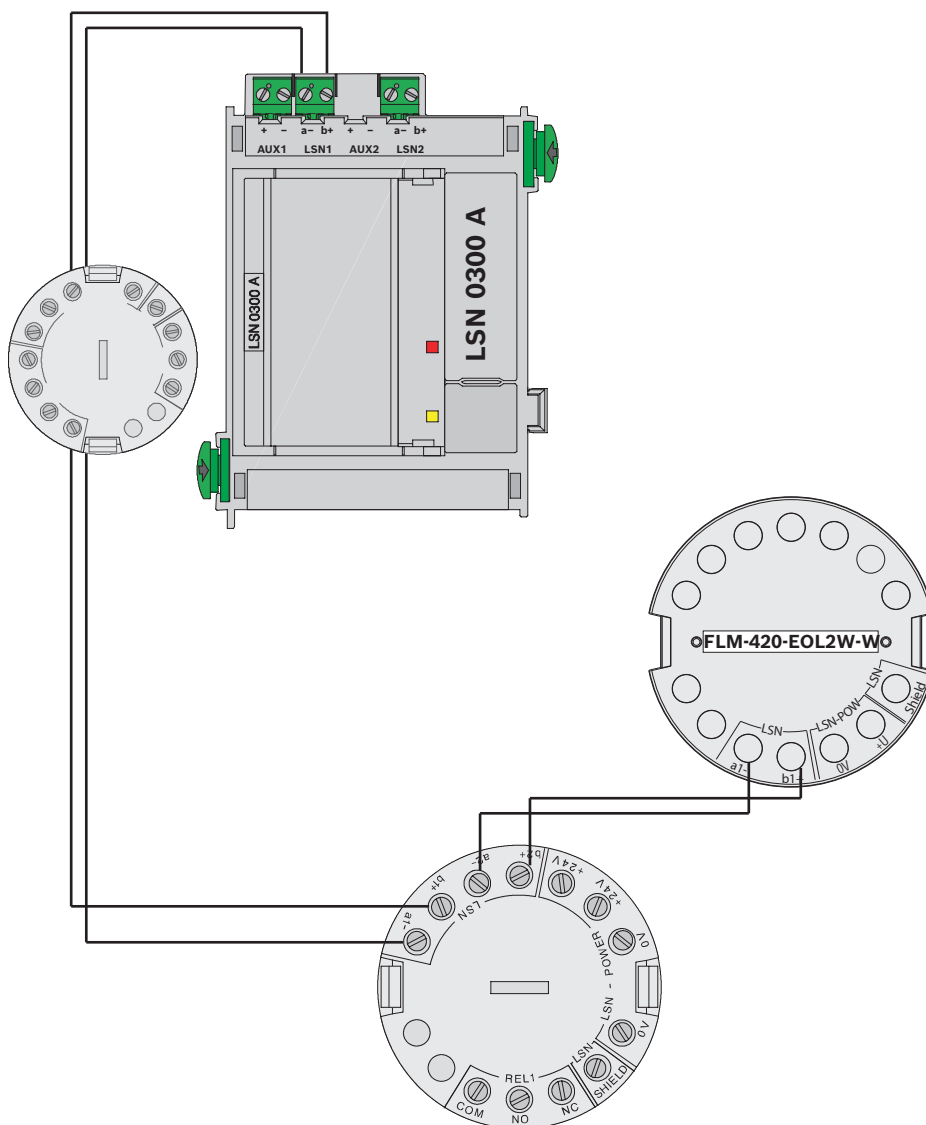


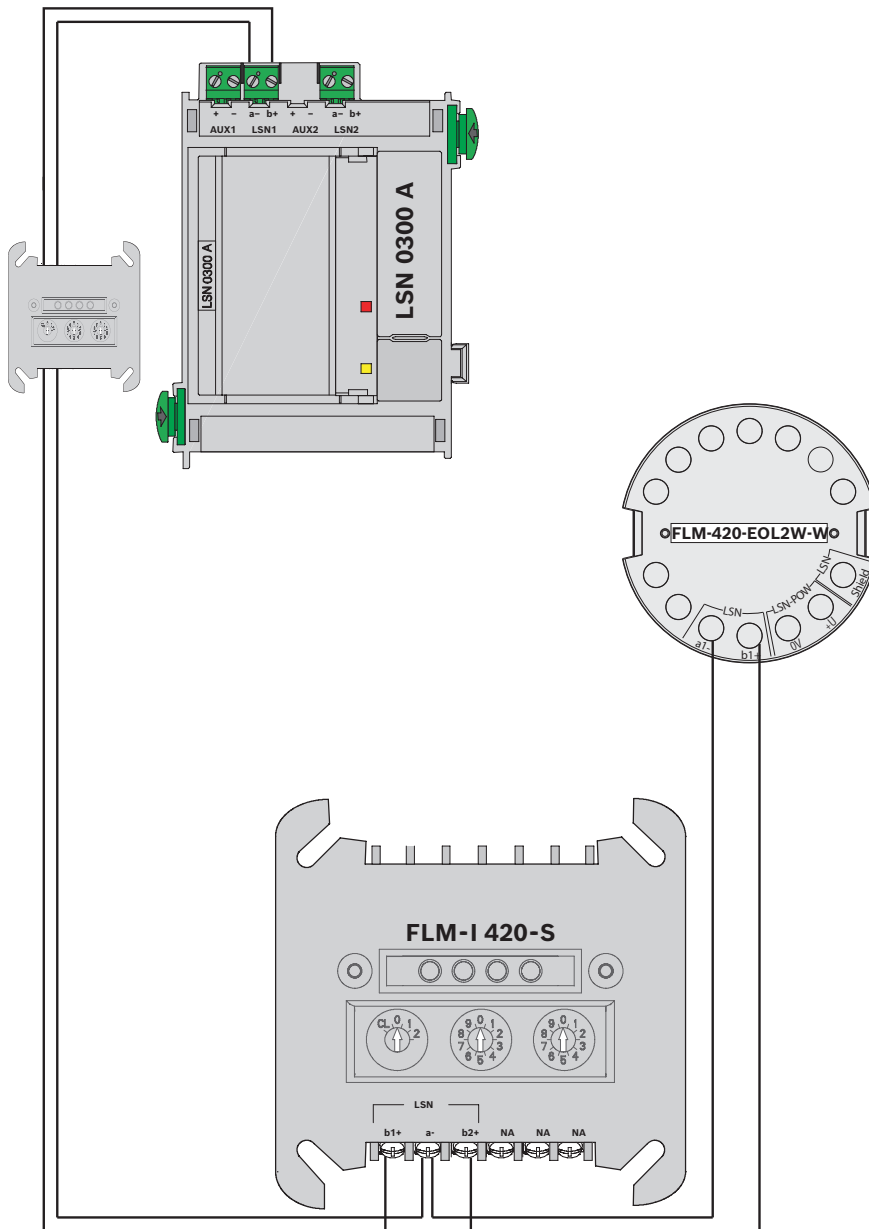
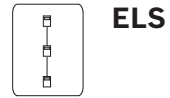
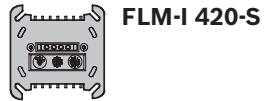
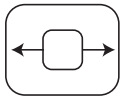


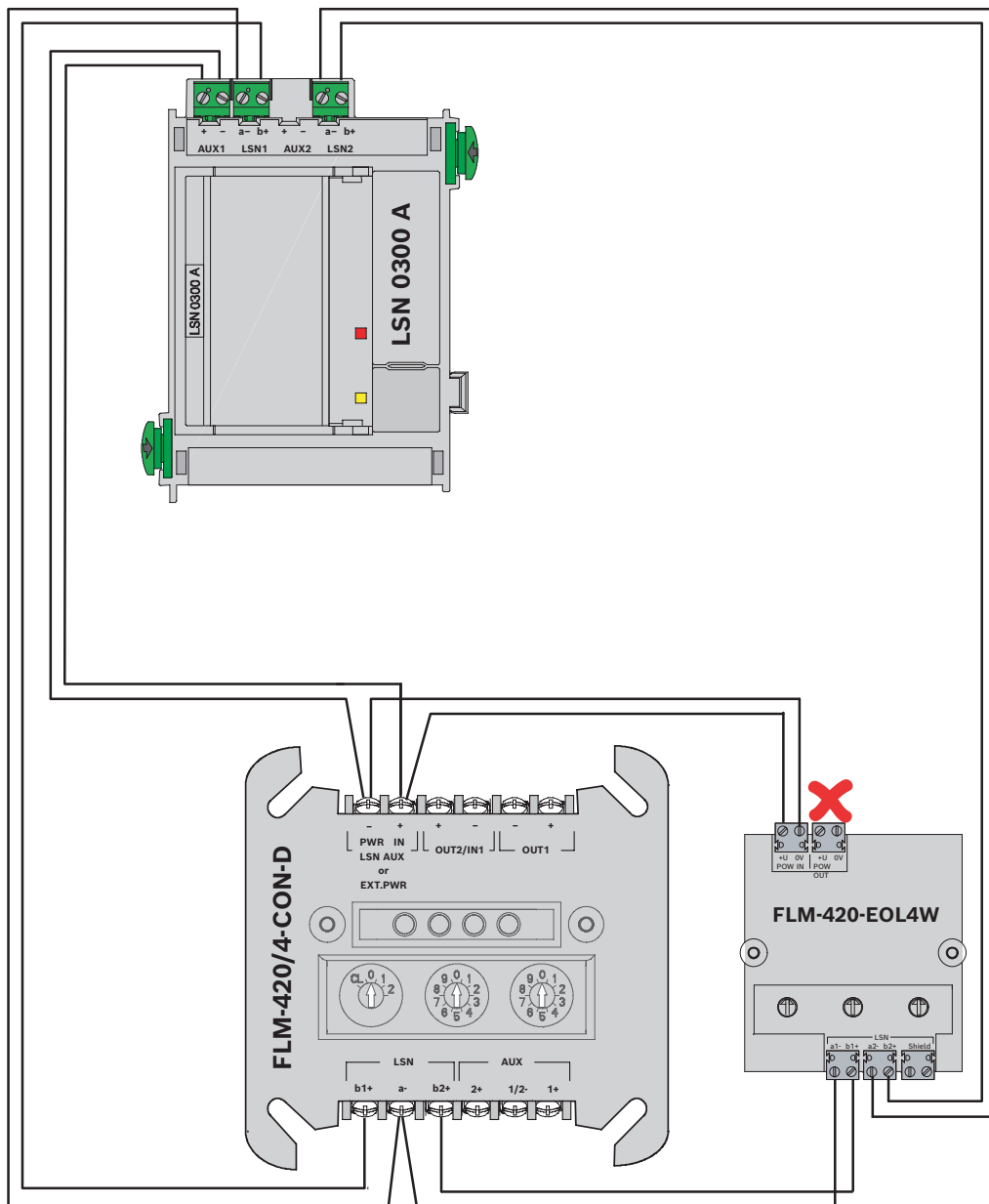
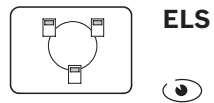
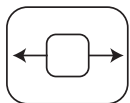
FLM-420-I2-E/-W  
FLM-420-RLV1-E

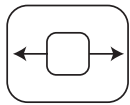


ELS

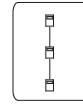




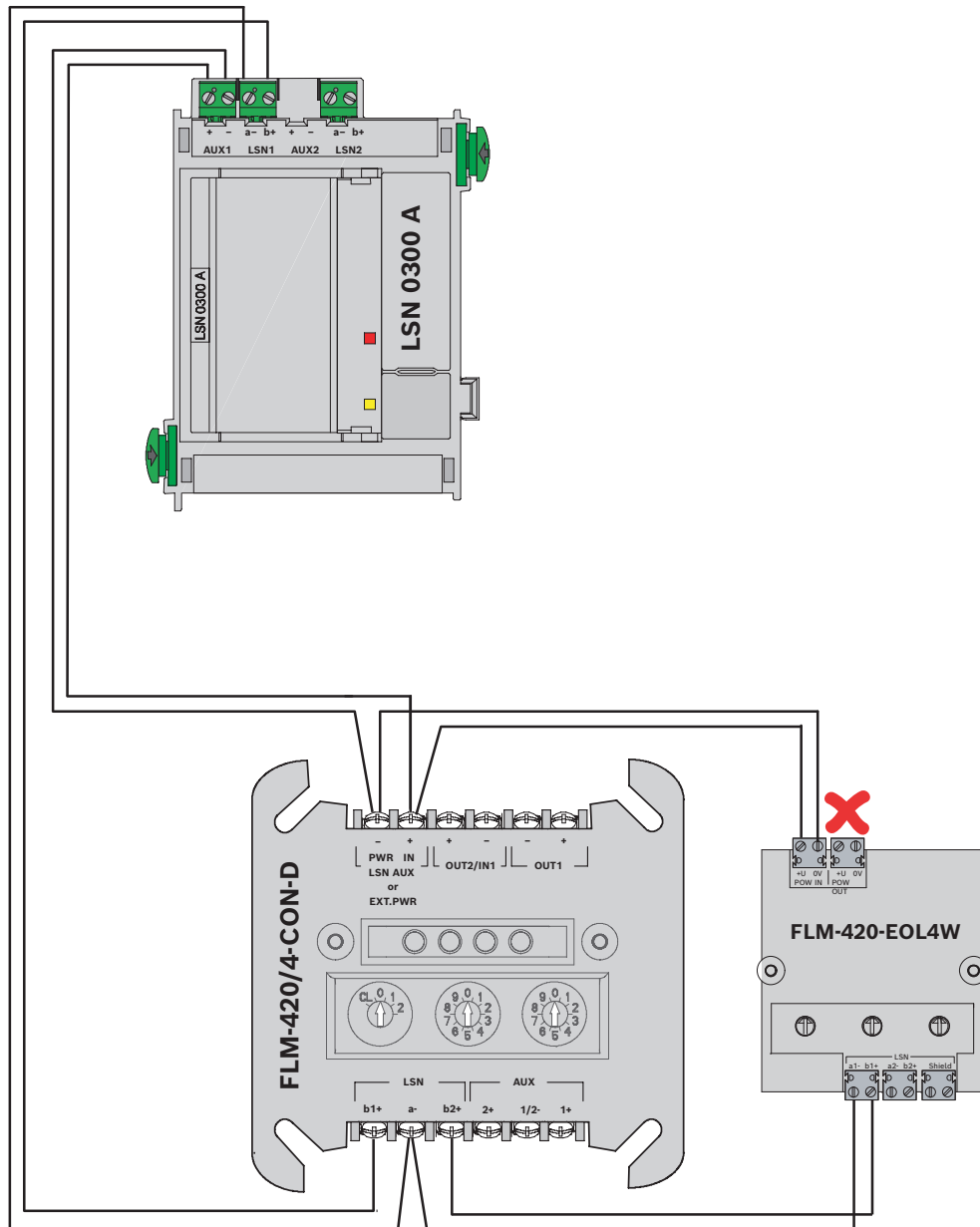


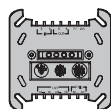
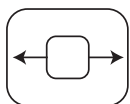


**FLM-420/  
4-CON-D**

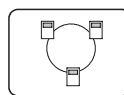


**ELS**

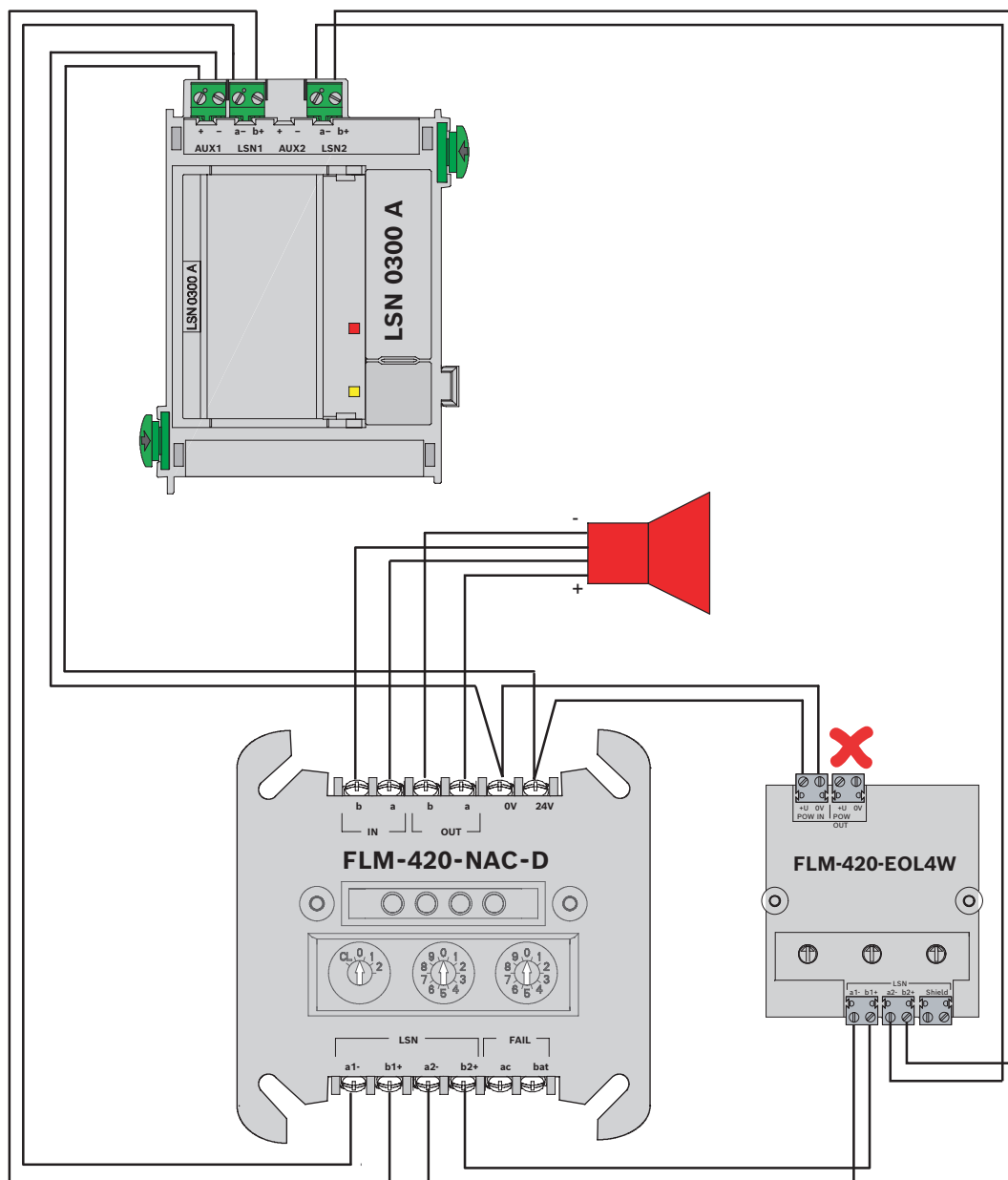


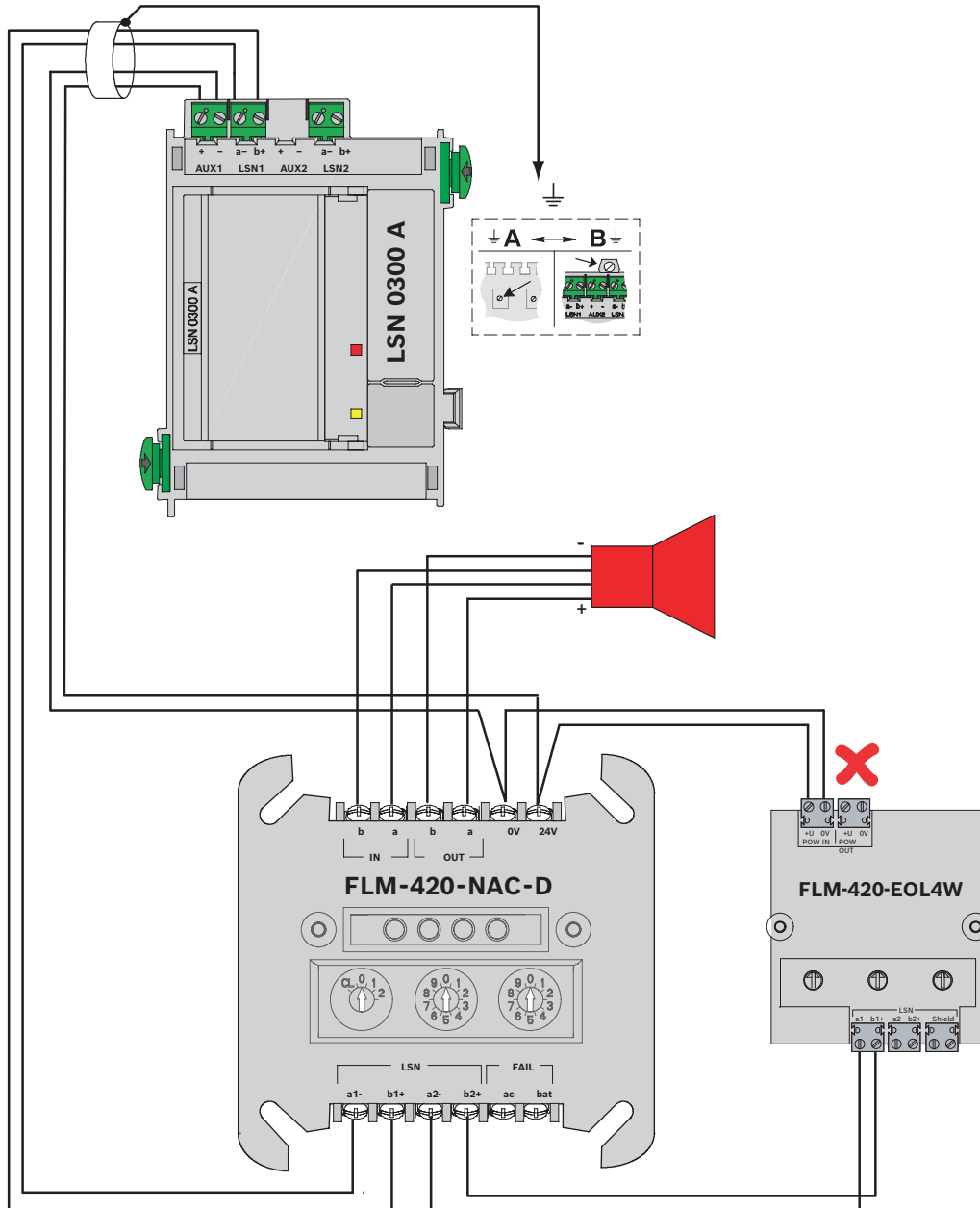
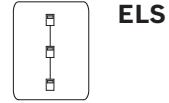
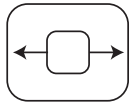


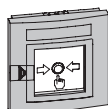
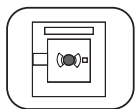
FLM-420-NAC-D/S



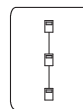
ELS  
EN 54-2



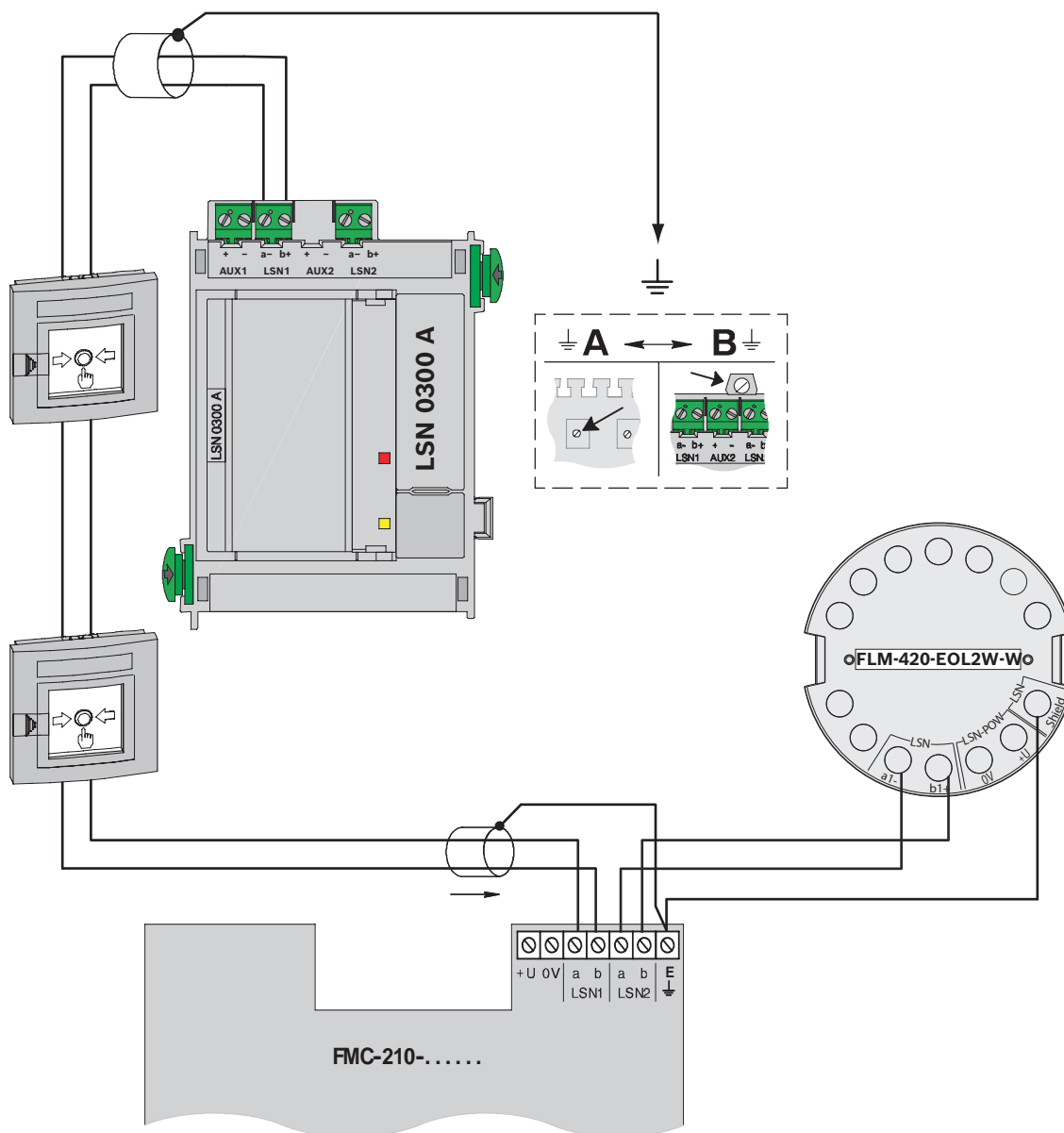




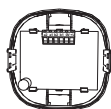
FMC-210...



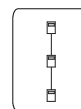
ELS



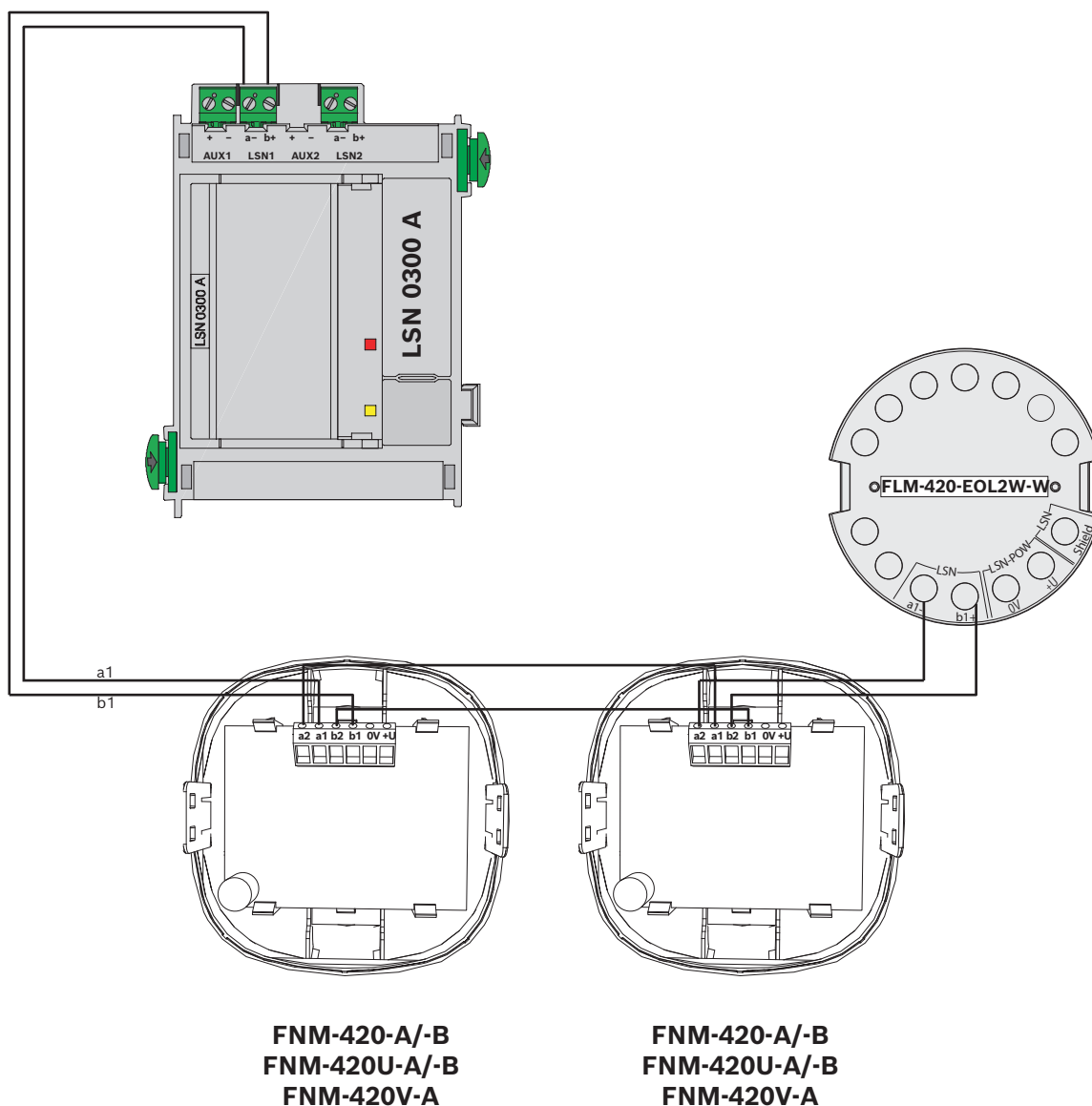




**FNM-420-A /-B**  
**FNM-420U-A /-B**  
**FNM-420V-A**



**ELS**



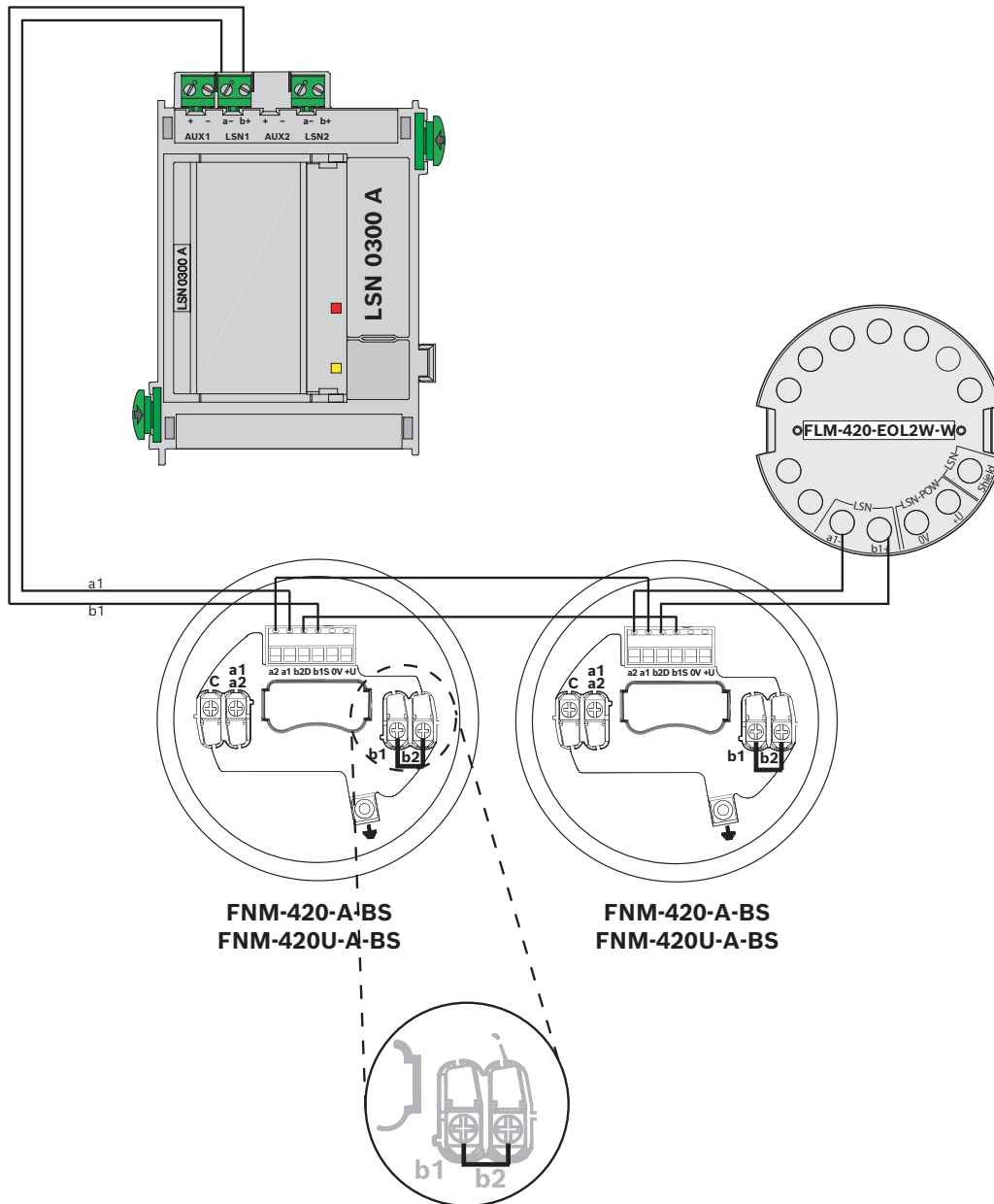


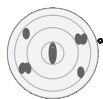


**FNM-420-A-BS**  
**FNM-420U-A-BS**



**ELS**

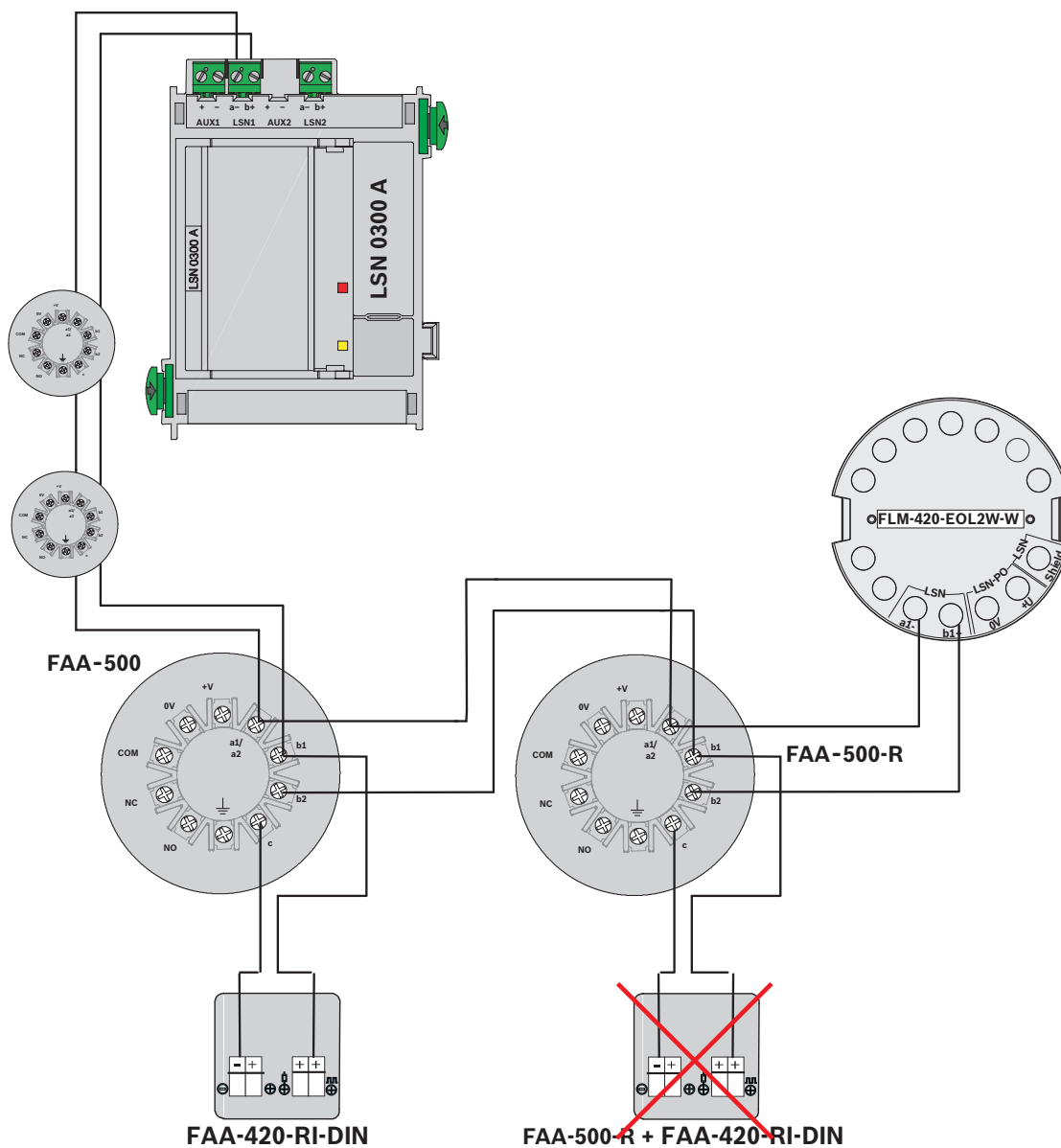


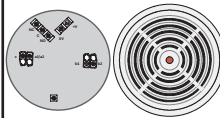


FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P

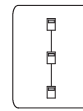


ELS

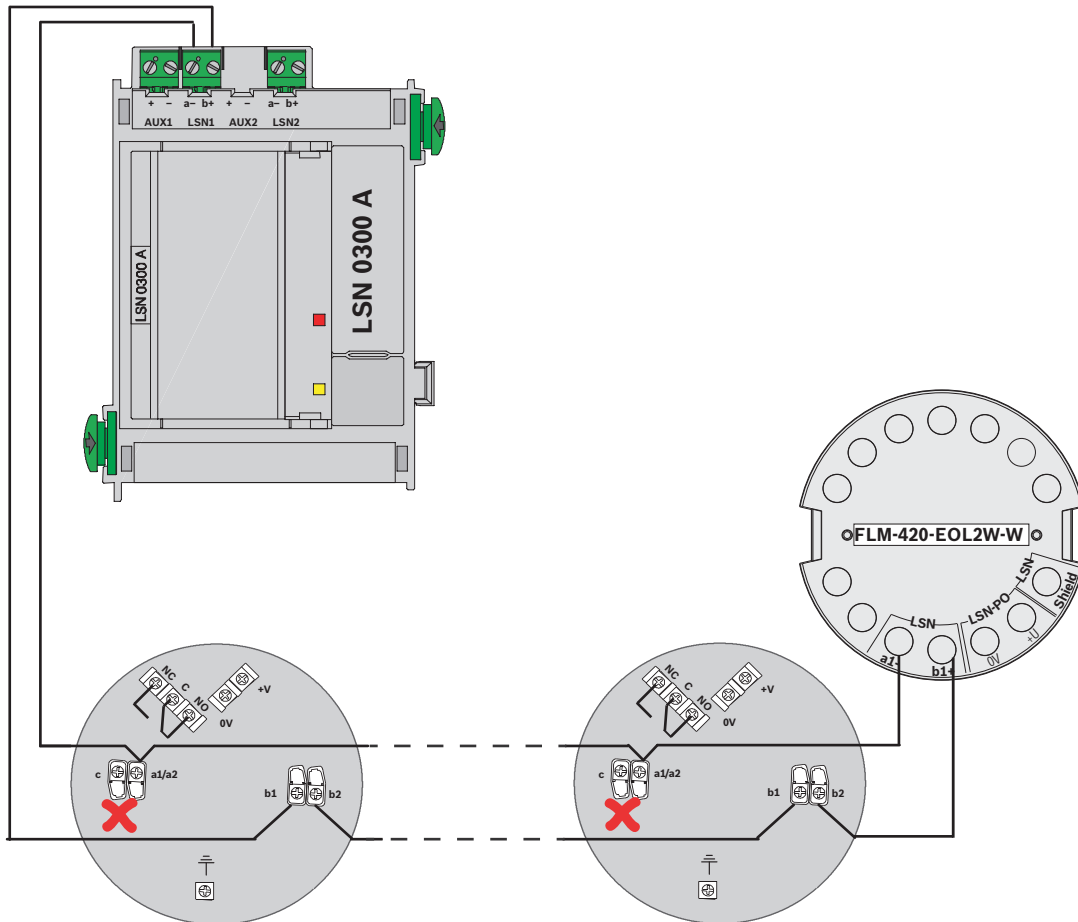


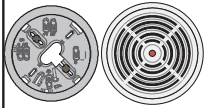


**FAA-MSR-420**  
**FAP-425-O, FAP-425-O-R**  
**FAP-425-OT, FAP-425-OT-R**  
**FAP-425-T-R**  
**FAP-425-DO-R, FAP-425-DOT-R**  
**FAP-425-DOTC-R, FAP-425-DOTCO-R**



**ELS**

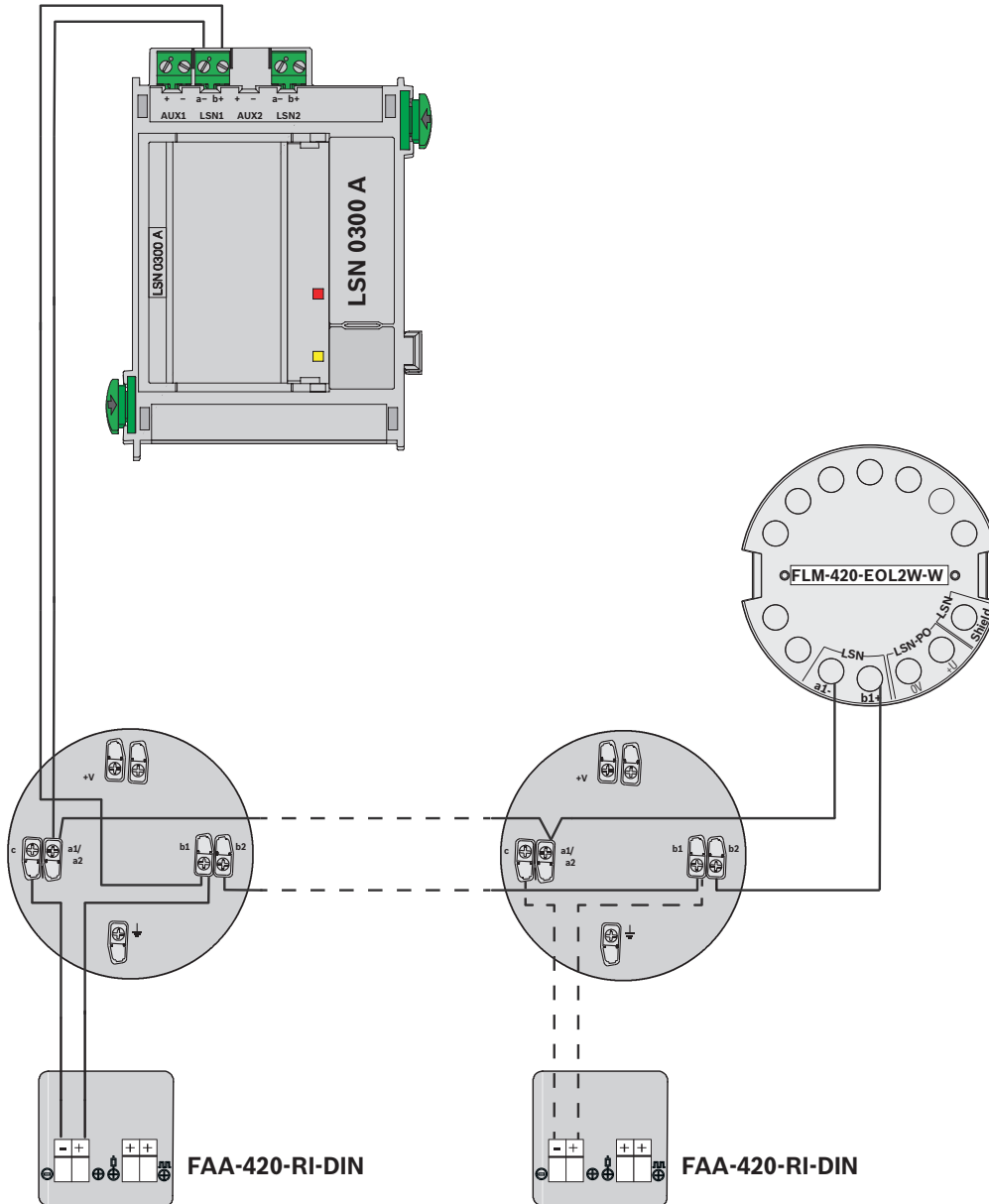


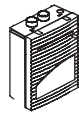


MS 400, MS 400 B  
 FAP-425-O, FAP-425-O-R  
 FAP-425-OT, FAP-425-OT-R  
 FAP-425-T-R  
 FAP-425-DO-R, FAP-425-DOT-R  
 FAP-425-DOTC-R, FAP-425-DOTCO-R

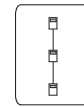


ELS

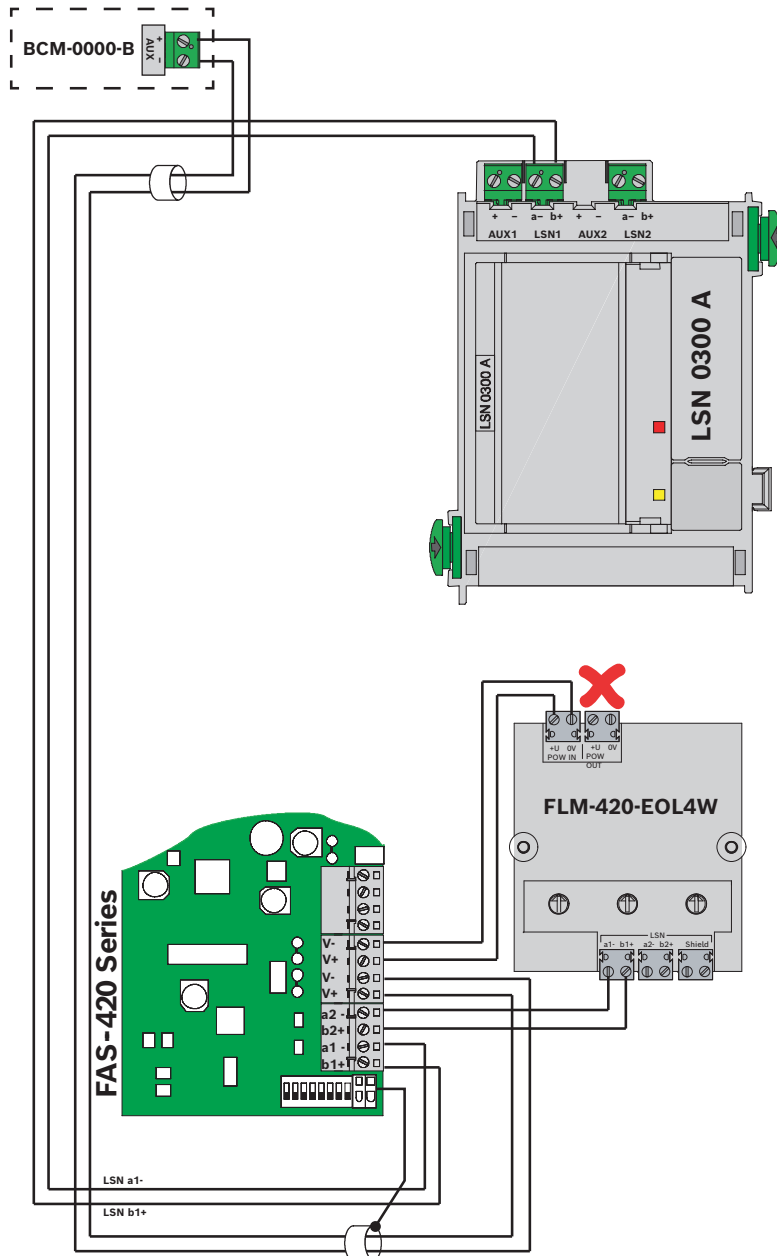


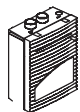


FAS-420 Series

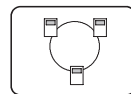


ELS

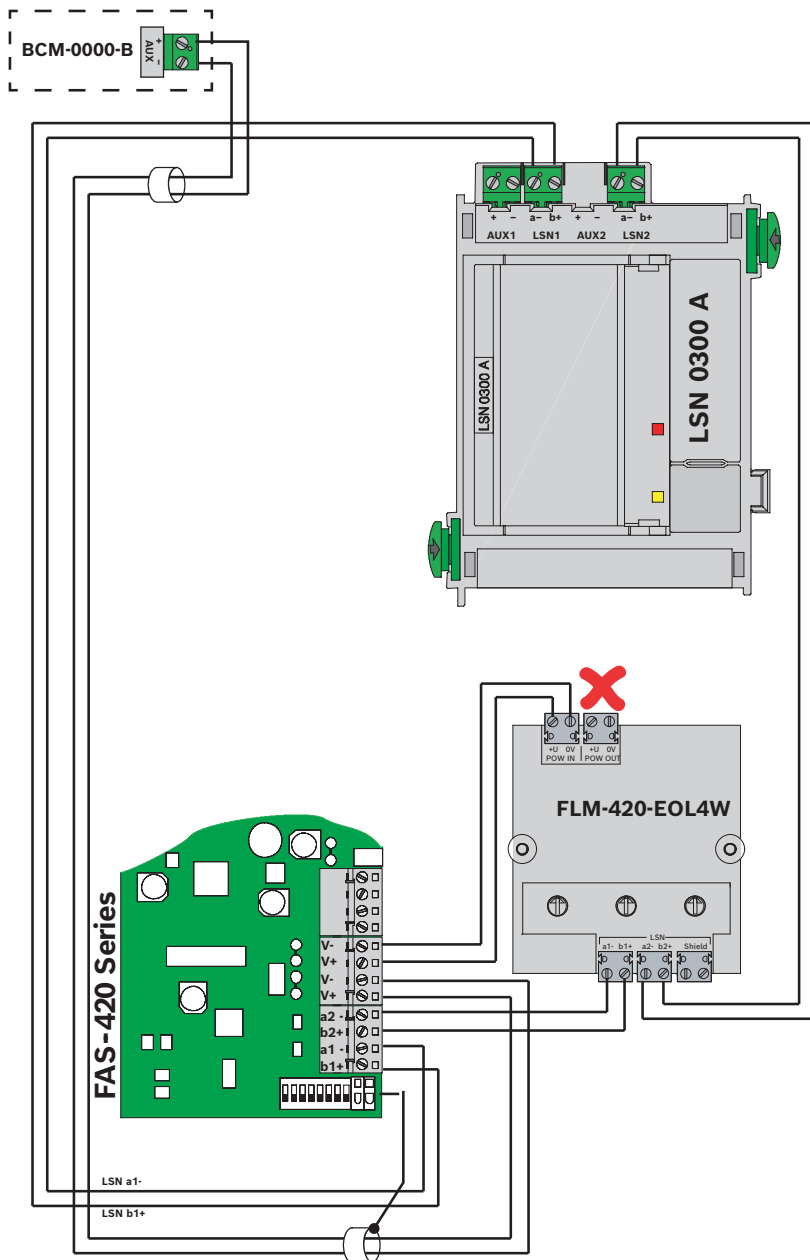




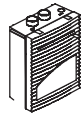
FAS-420 Series



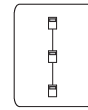
ELS



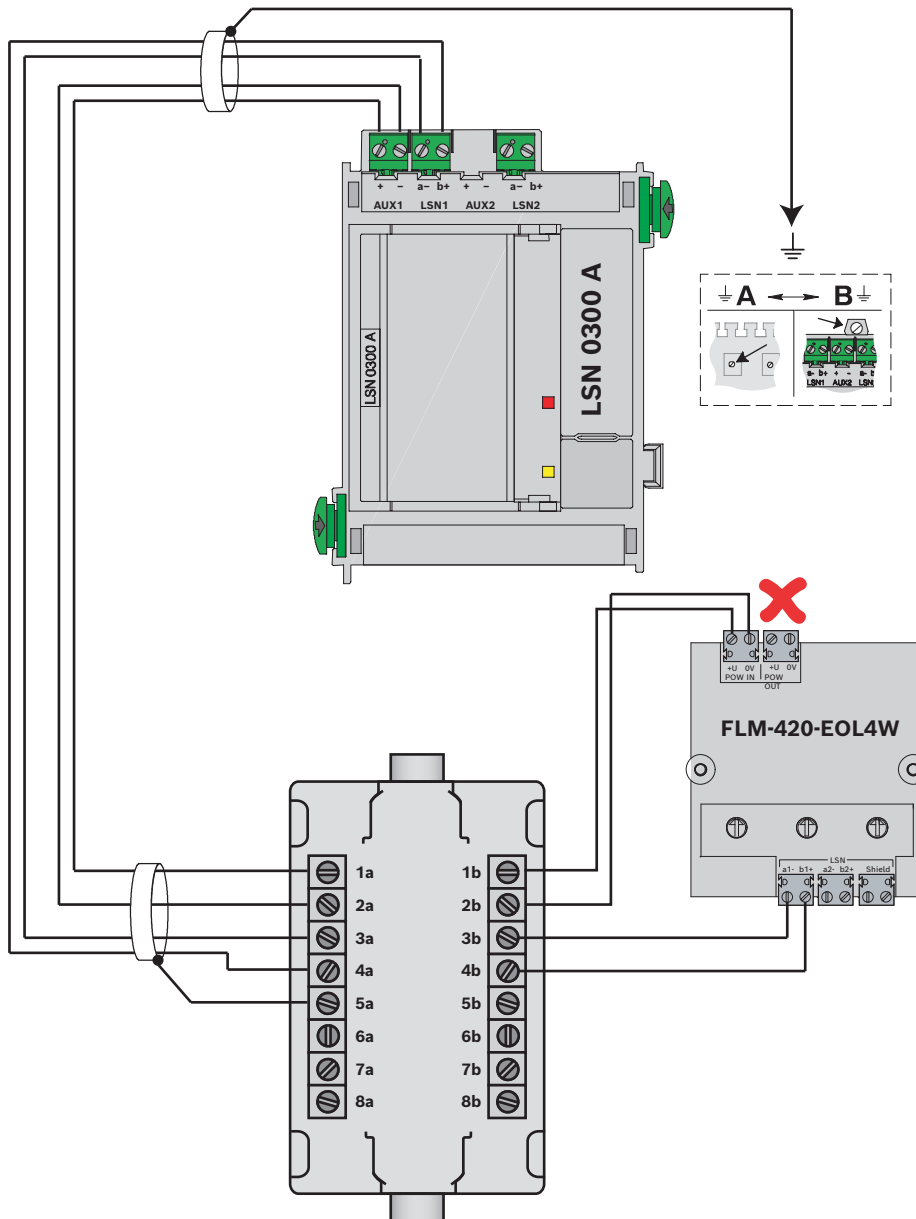


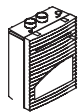


FAS-420-TM Series

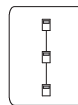


ELS

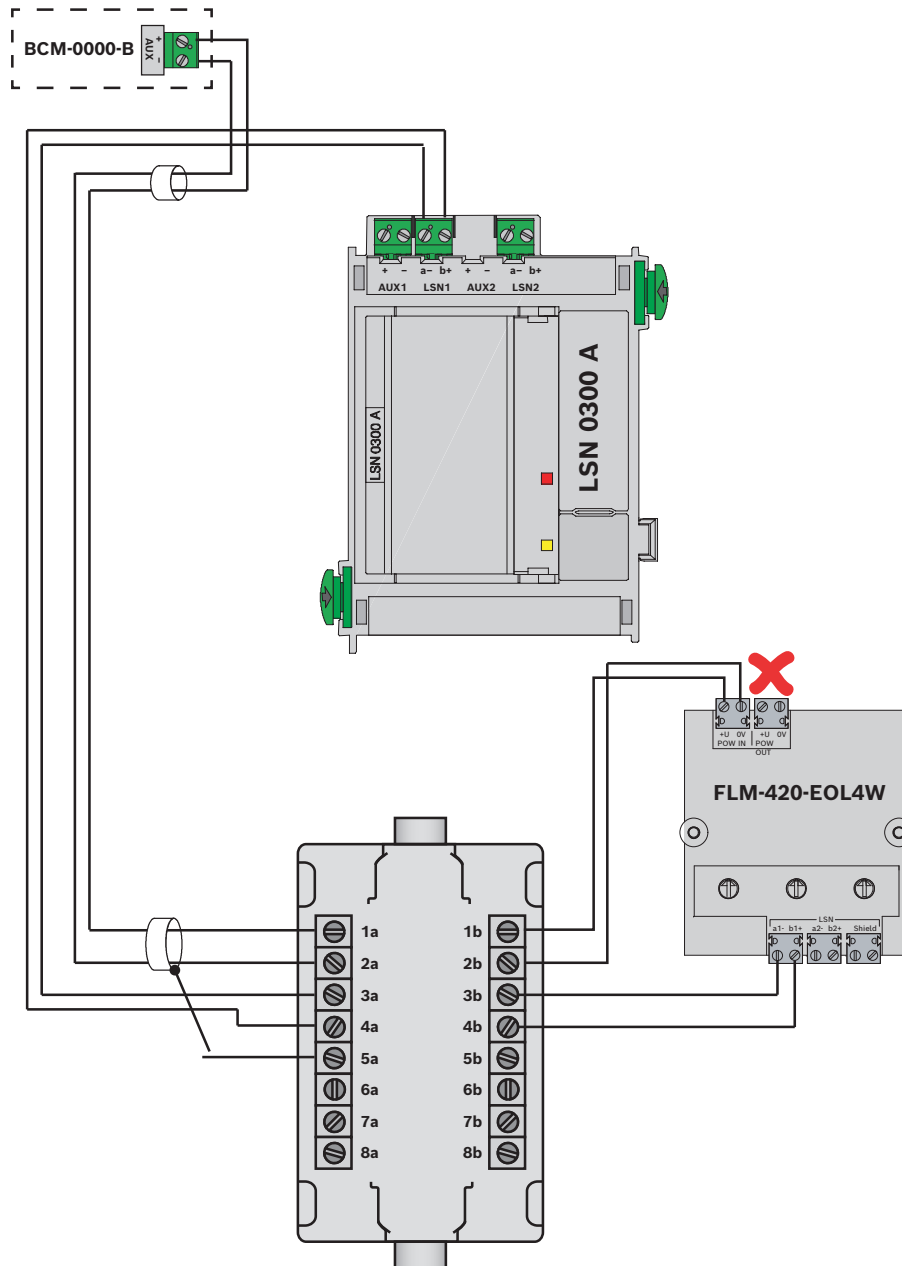


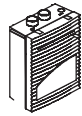


FAS-420-TM Series

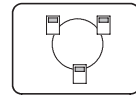


ELS

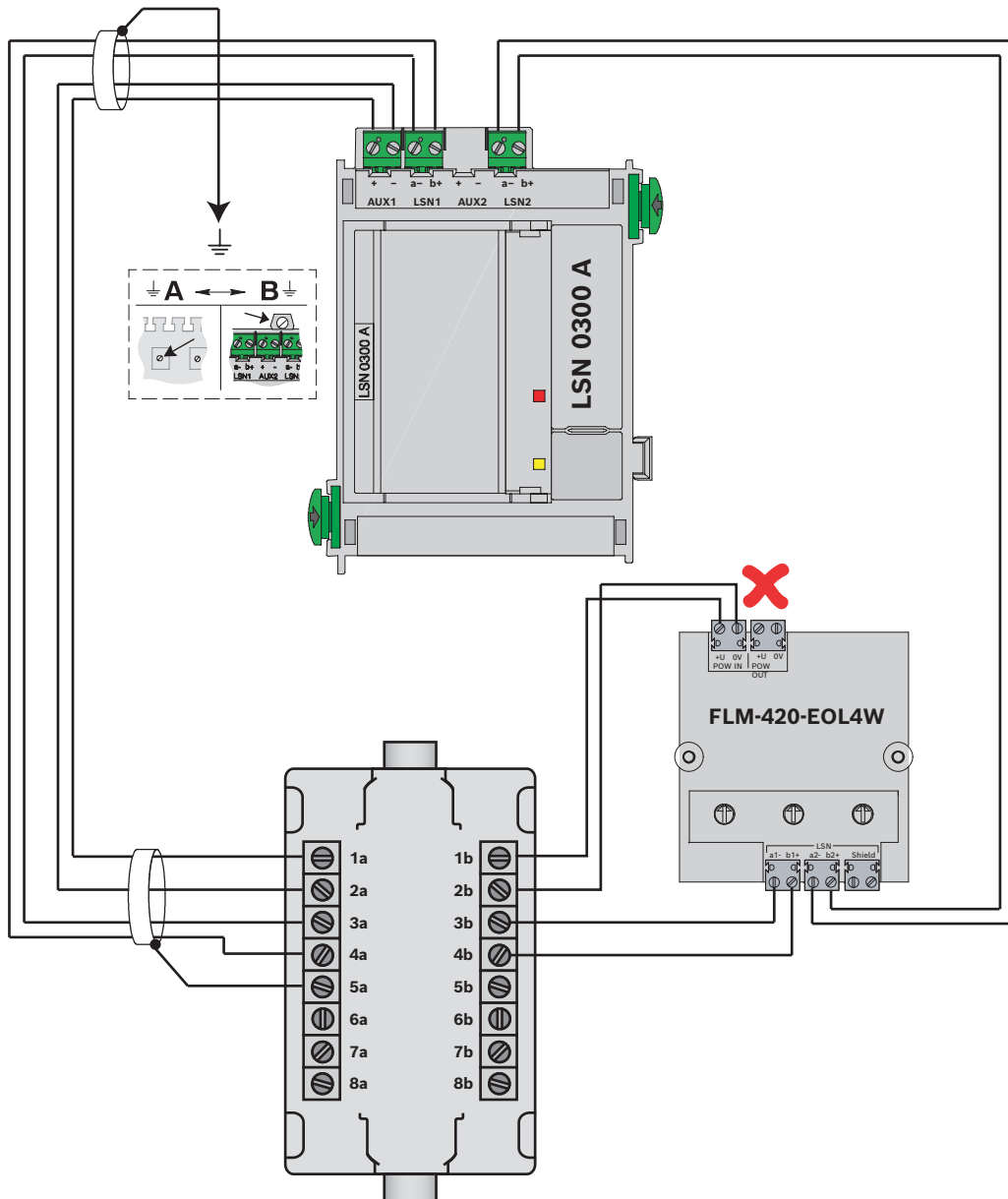


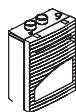


FAS-420-TM Series

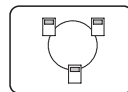


ELS

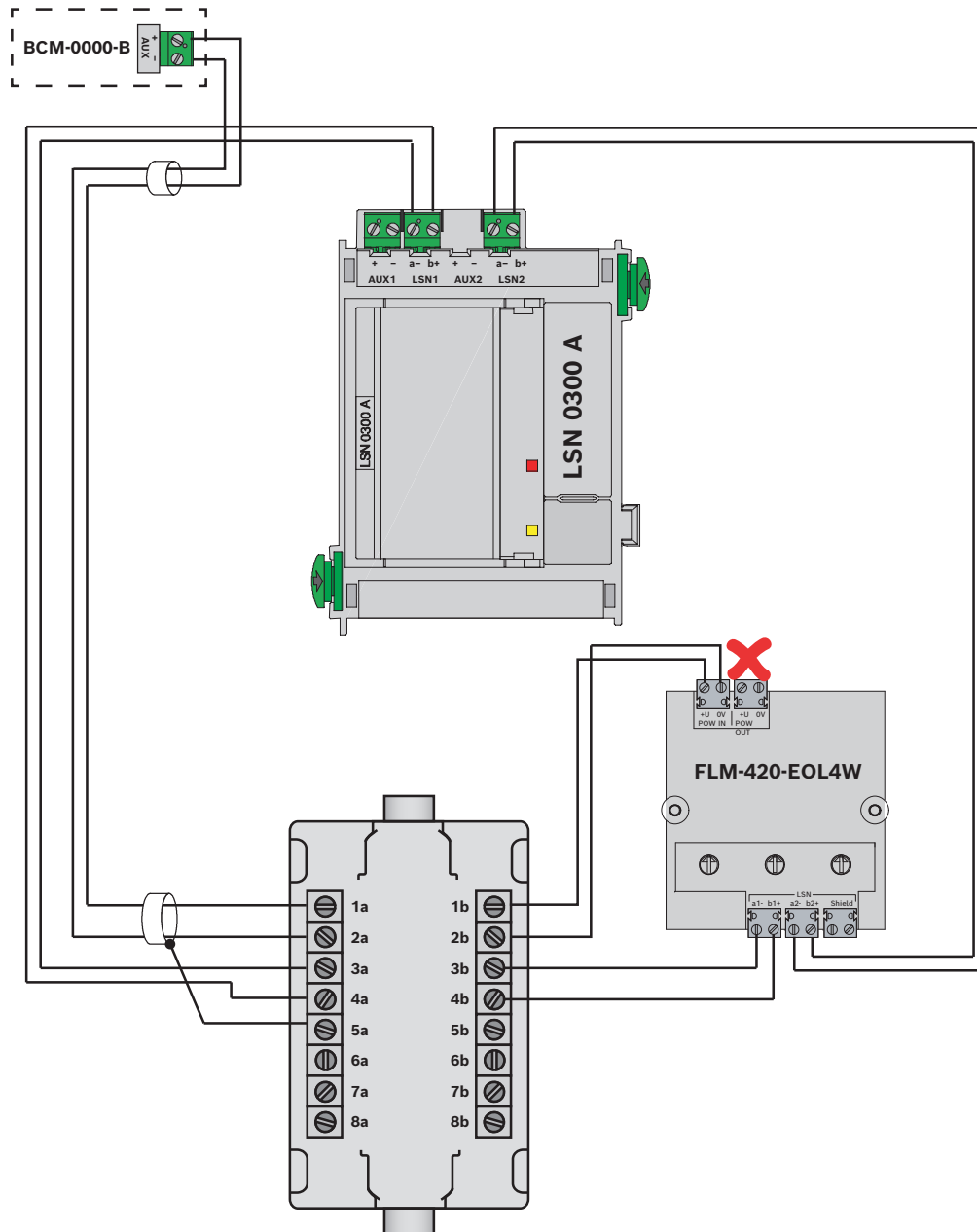




FAS-420-TM Series

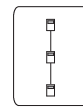


ELS

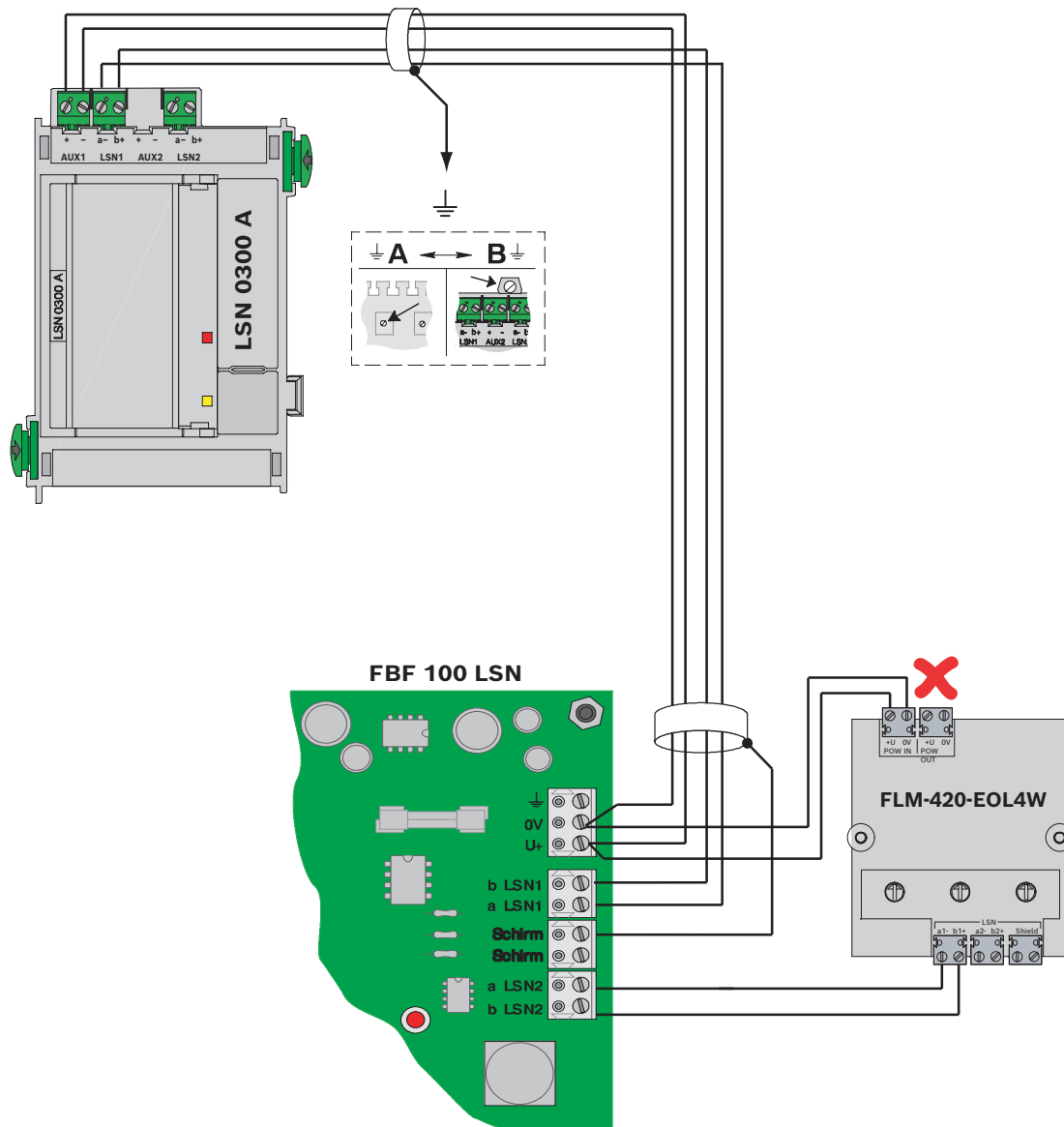




**FBF 100 LSN**

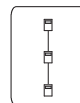


**ELS**

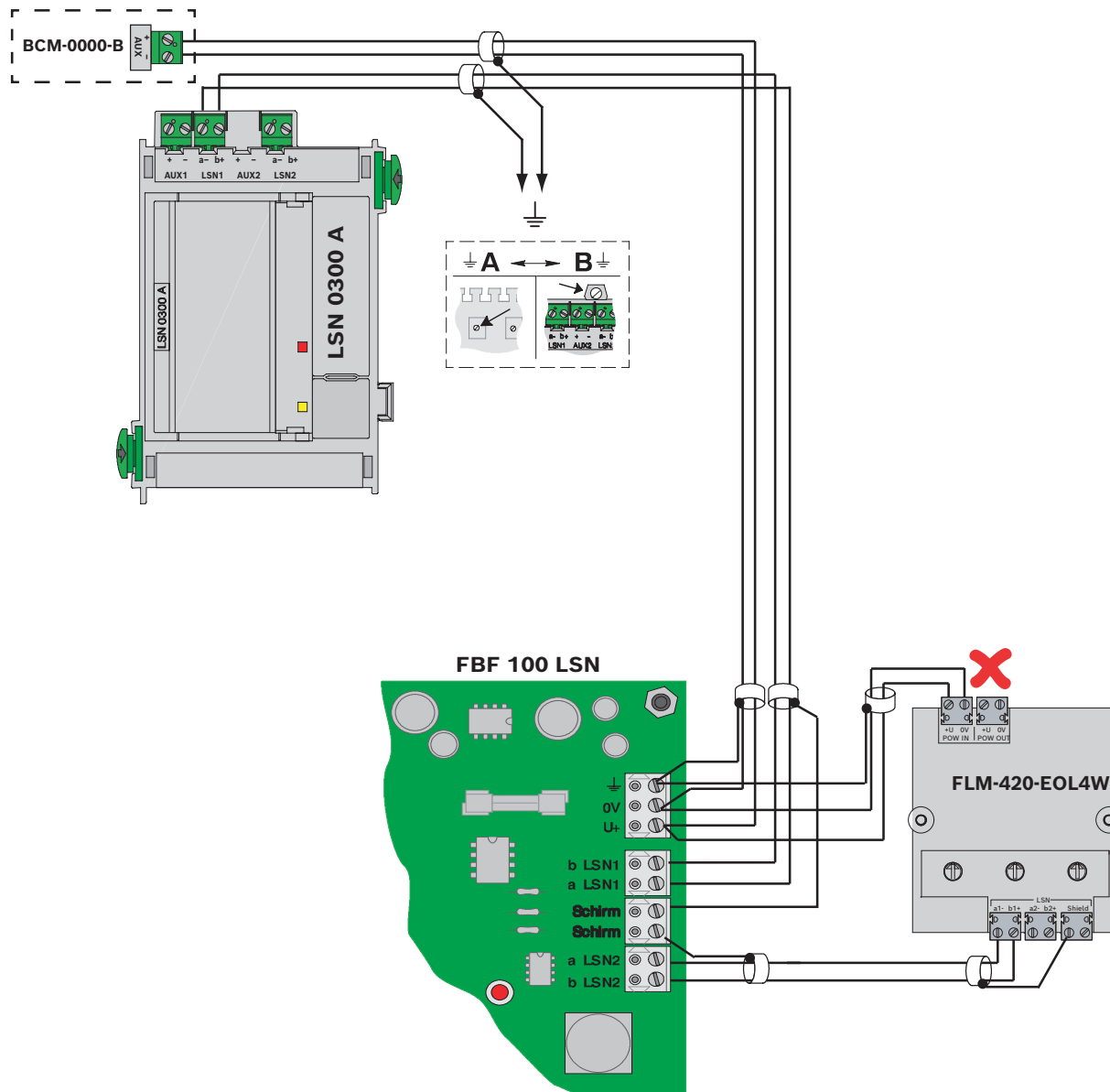




FBF 100 LSN

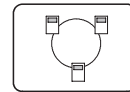


ELS

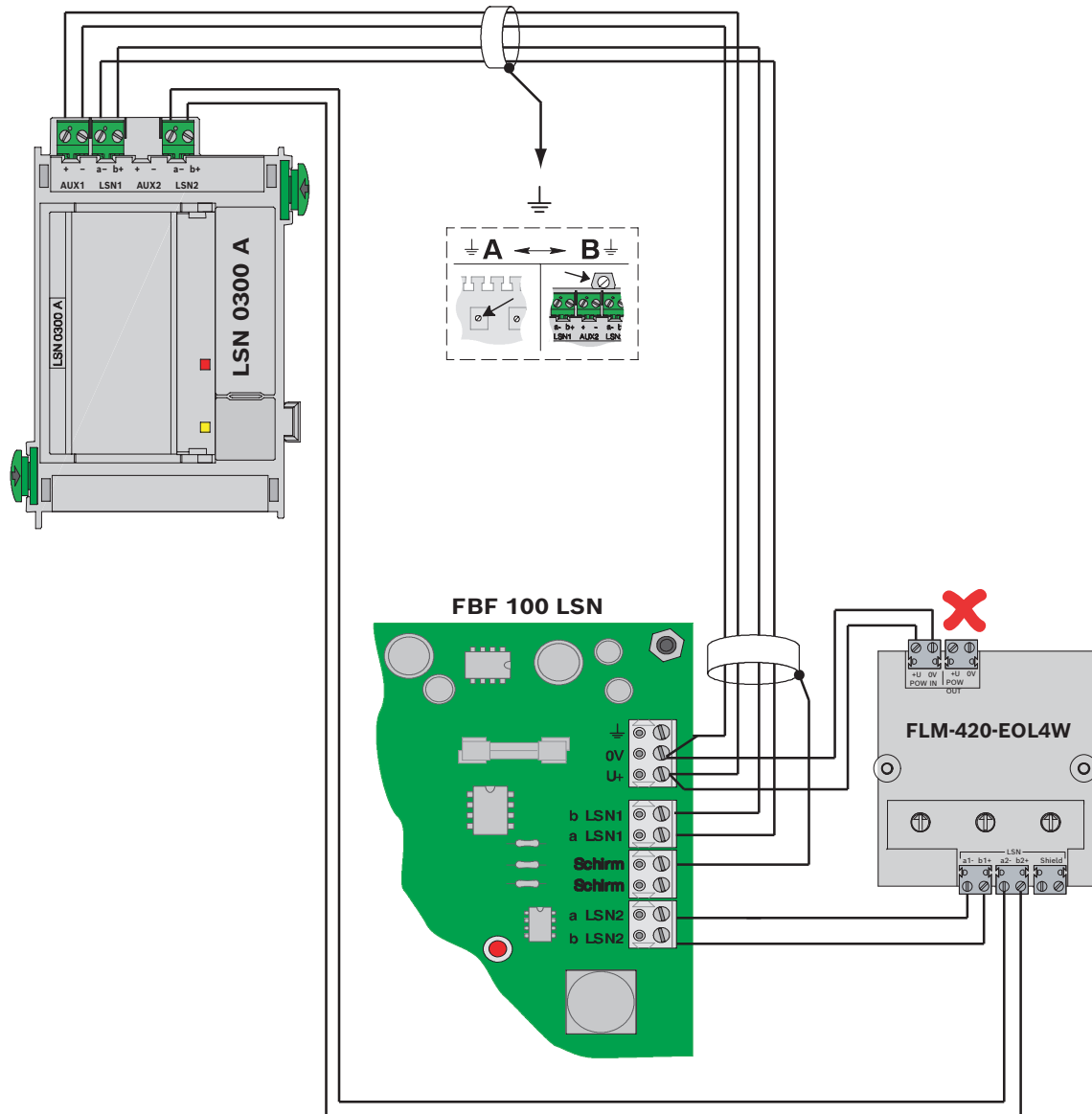




FBF 100 LSN

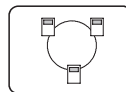


ELS

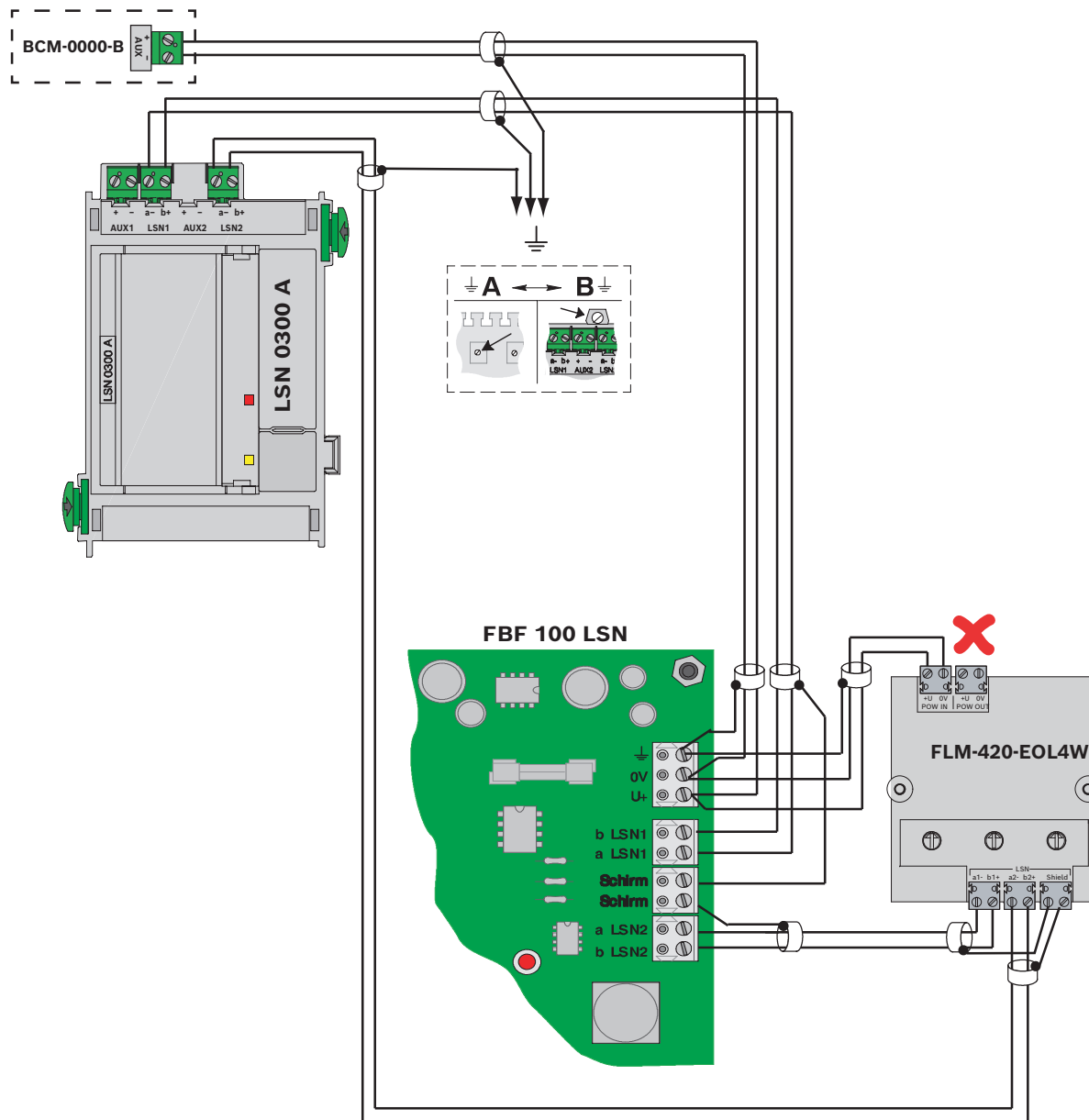




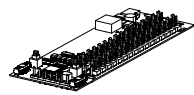
**FBF 100 LSN**



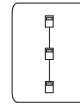
**ELS**



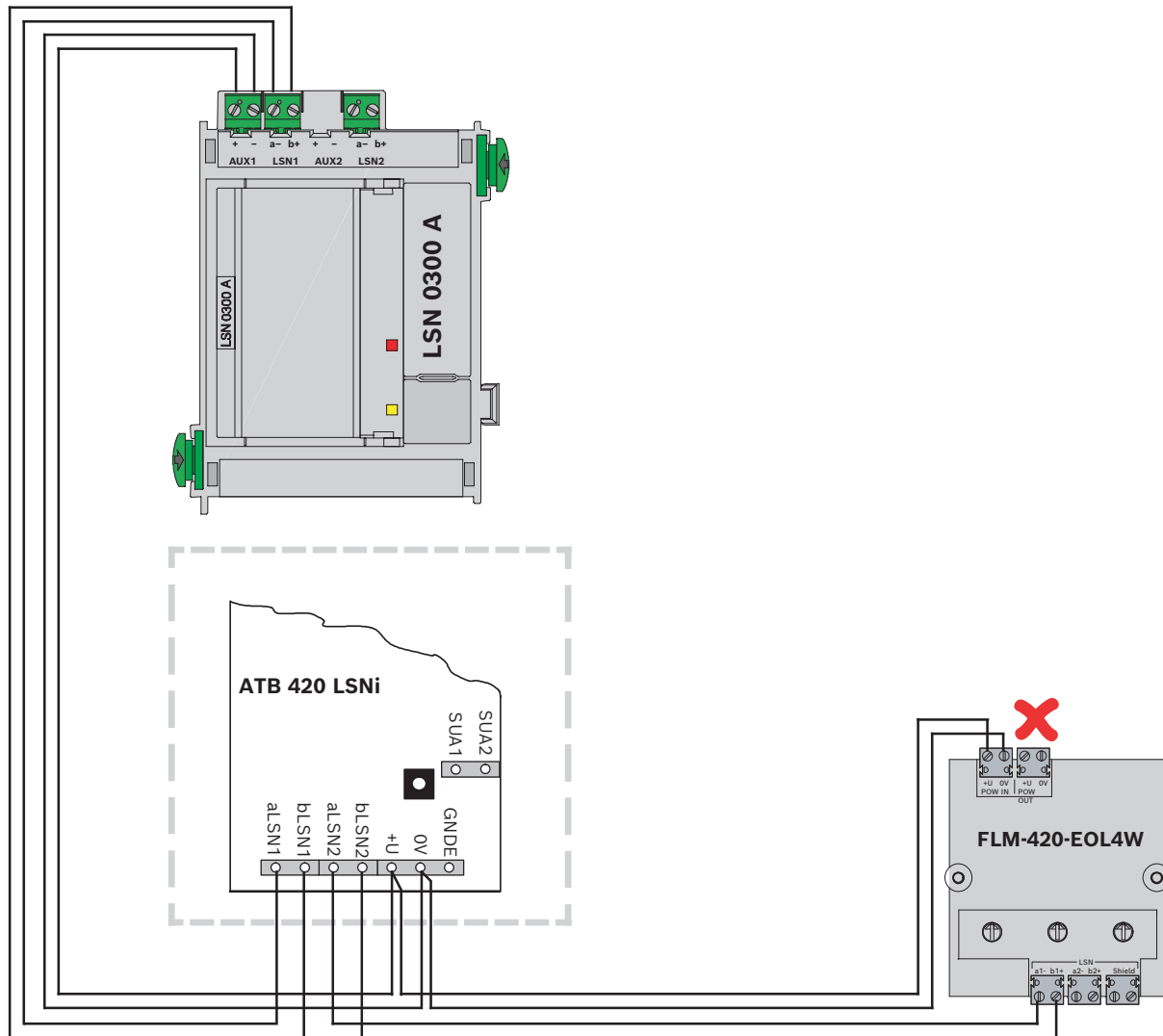


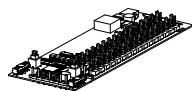


ATB 420 LSNi

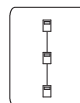


ELS

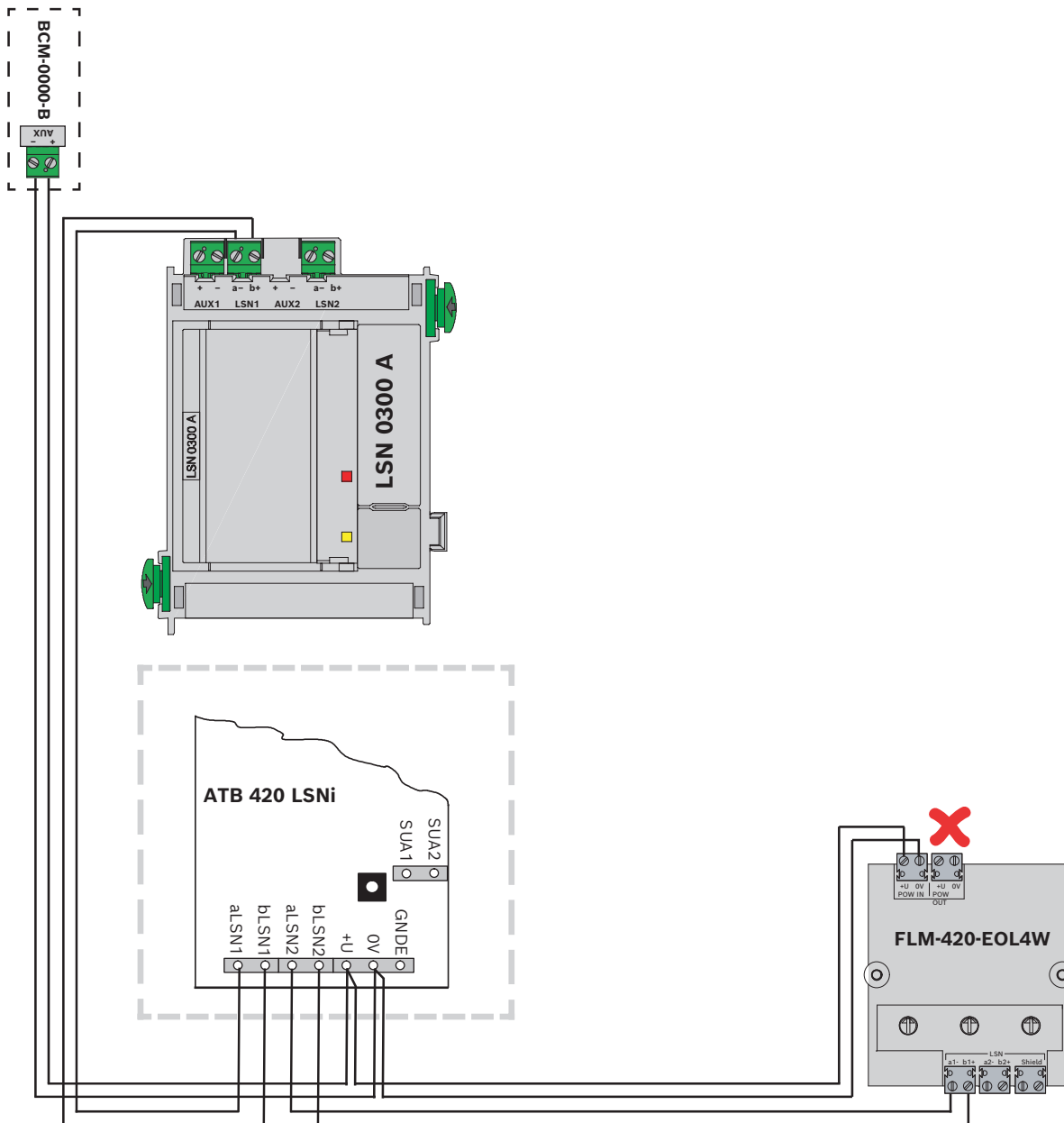


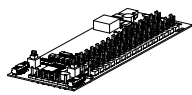


ATB 420 LSNi

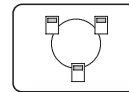


ELS

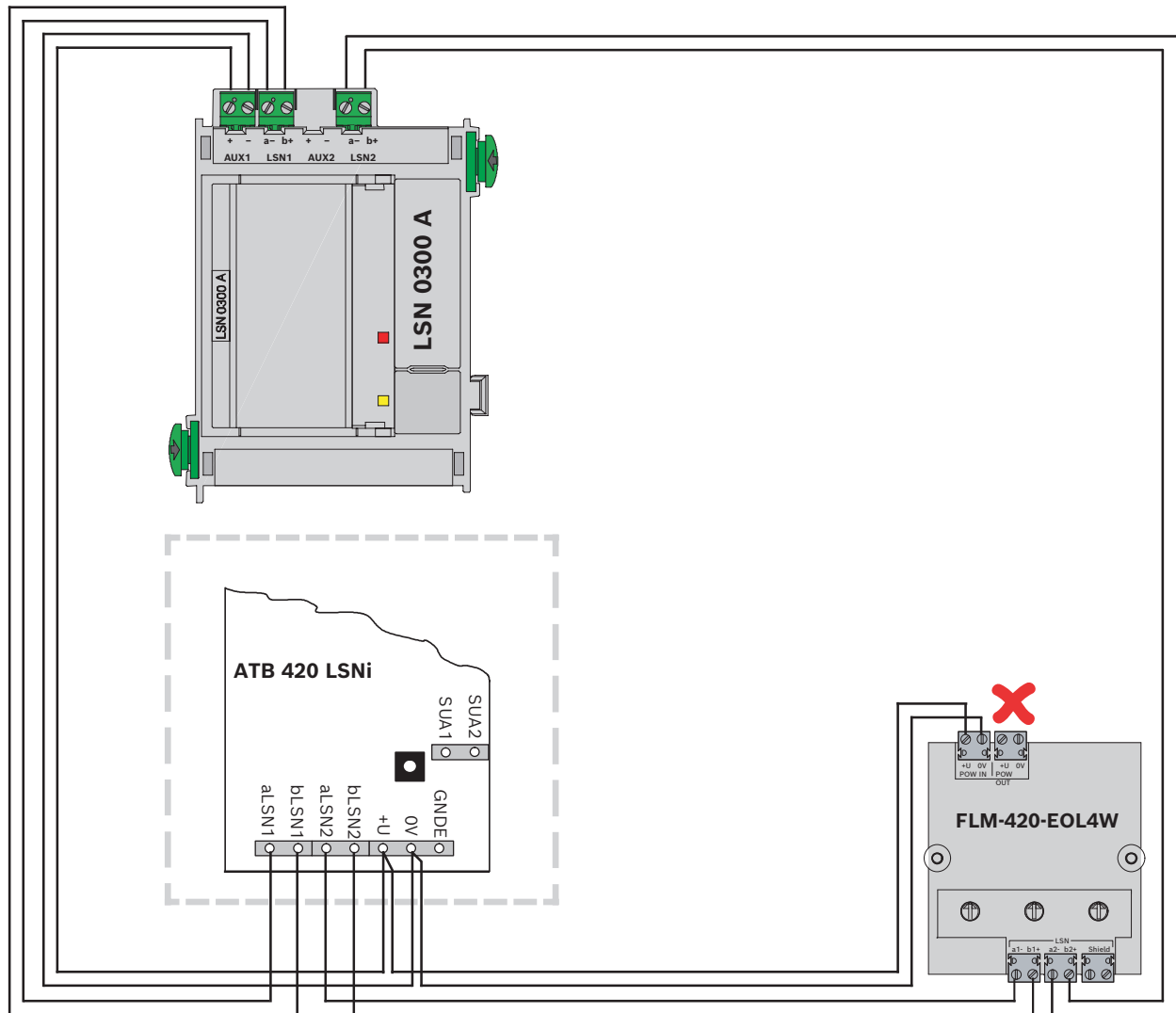


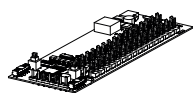


ATB 420 LSNi

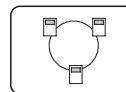


ELS

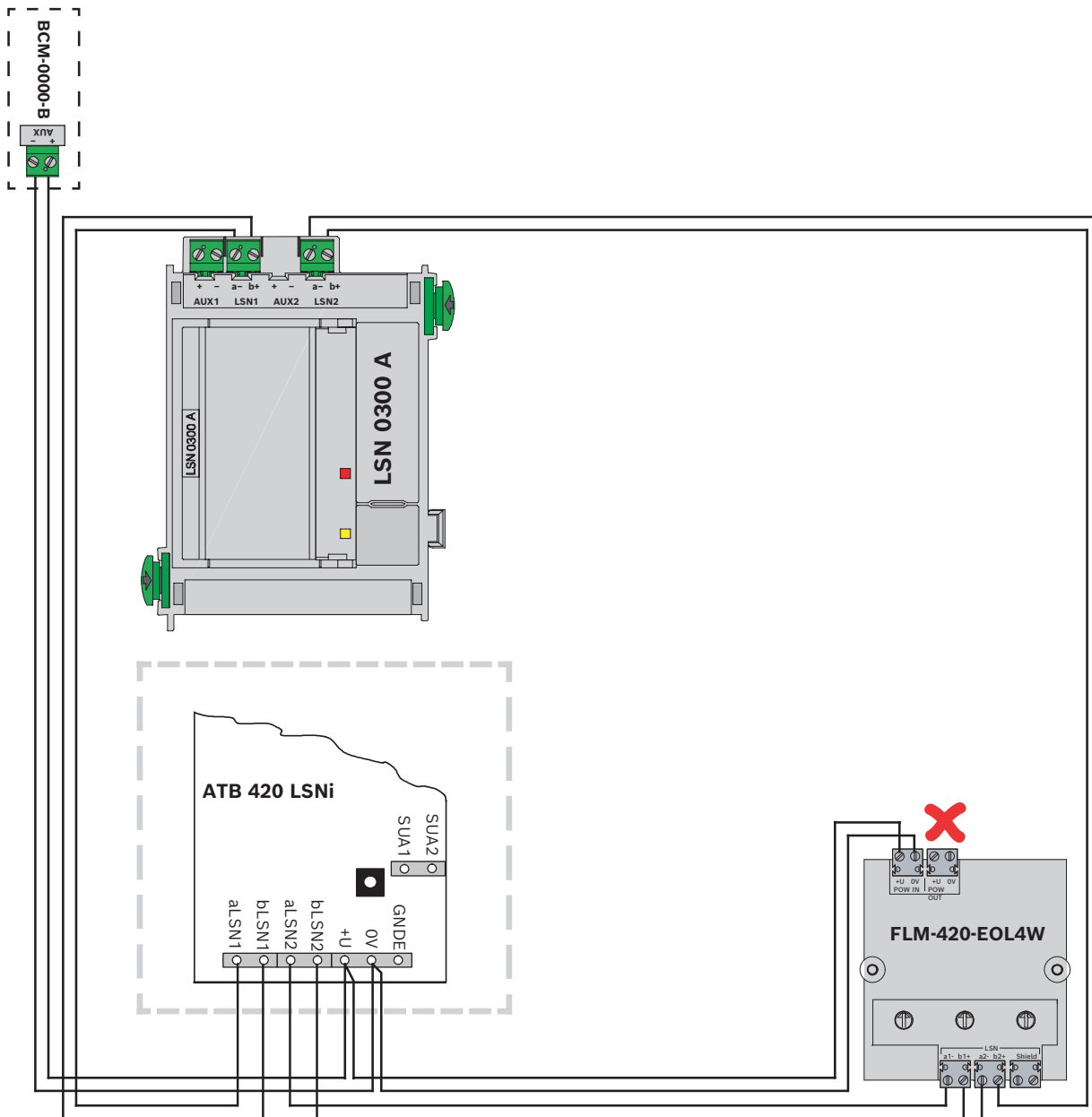




ATB 420 LSNi

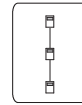


ELS

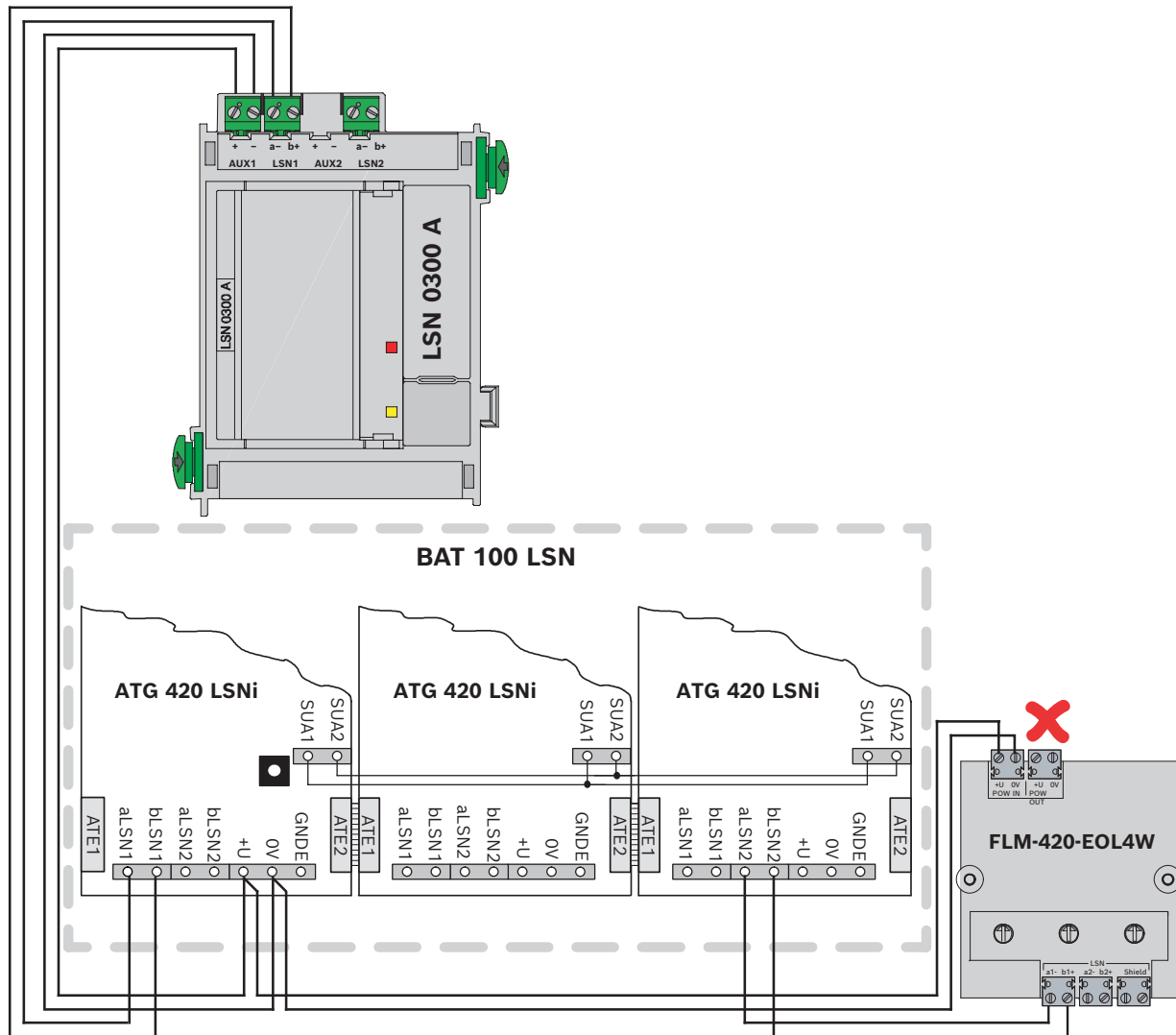




**BAT 100 LSN**  
**ATG 420 LSNi**

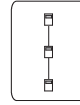


**ELS**

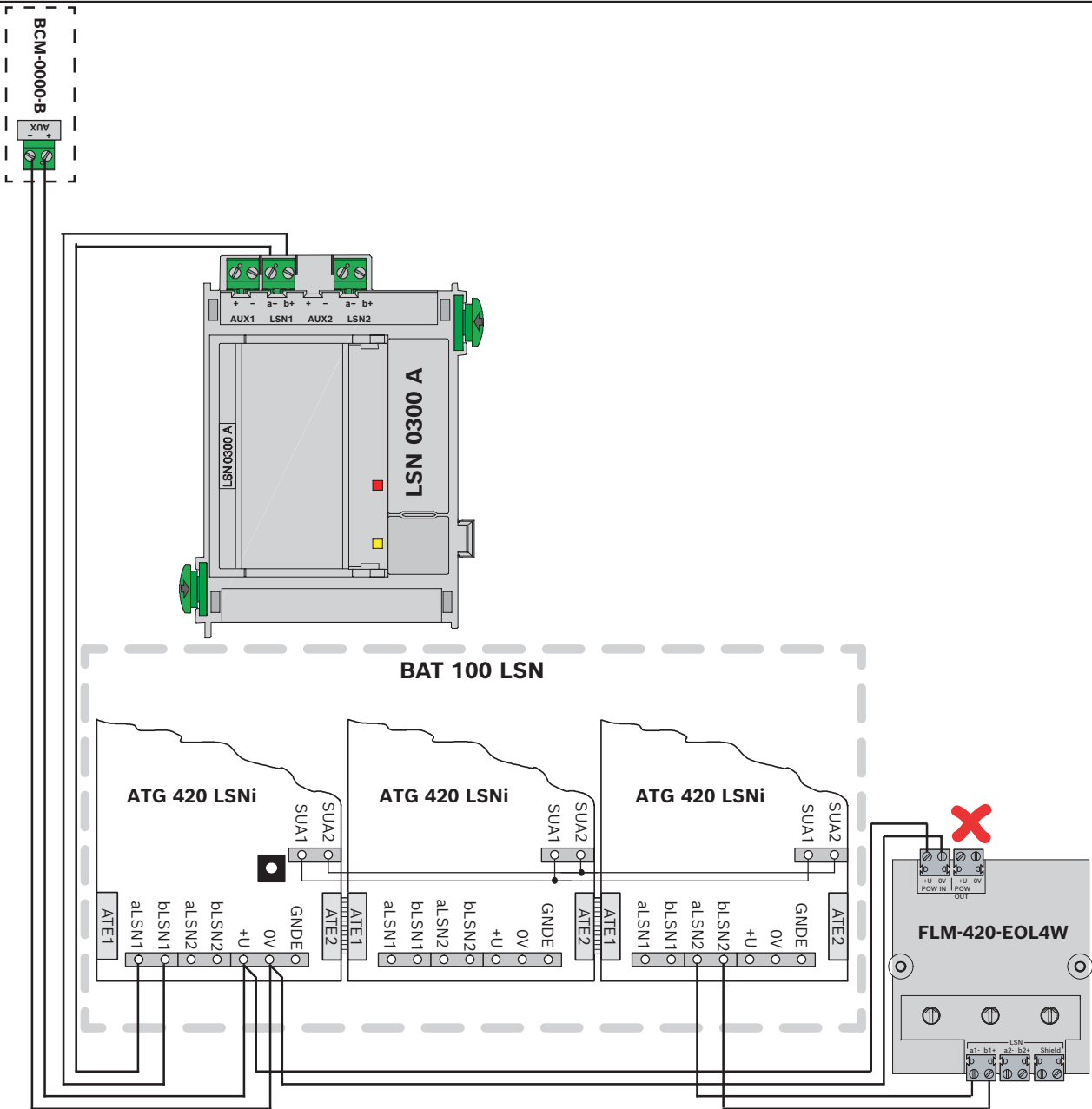




**BAT 100 LSN**  
**ATG 420 LSNi**

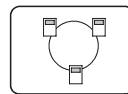


**ELS**

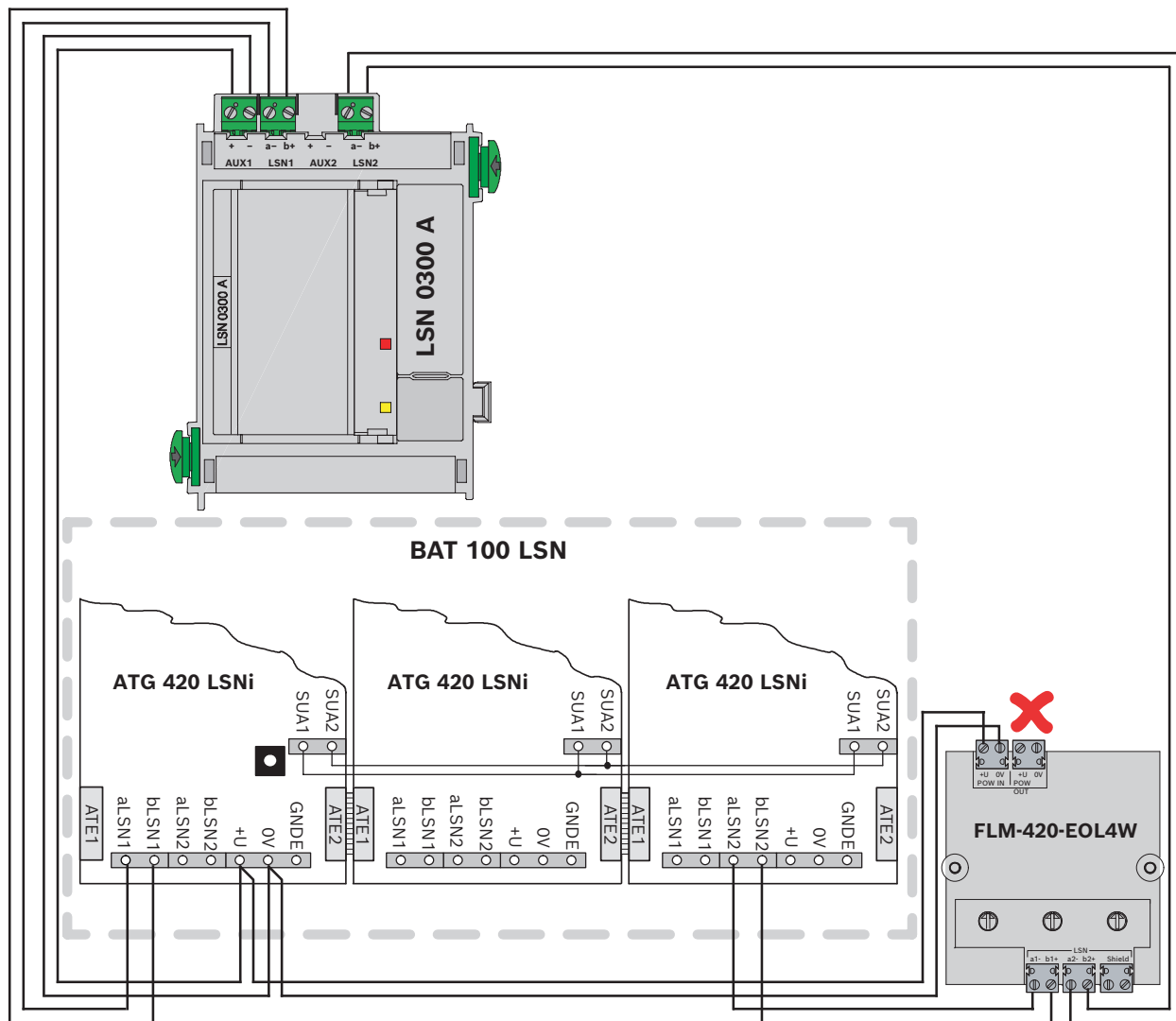




**BAT 100 LSN  
ATG 420 LSNi**

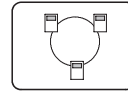


**ELS**

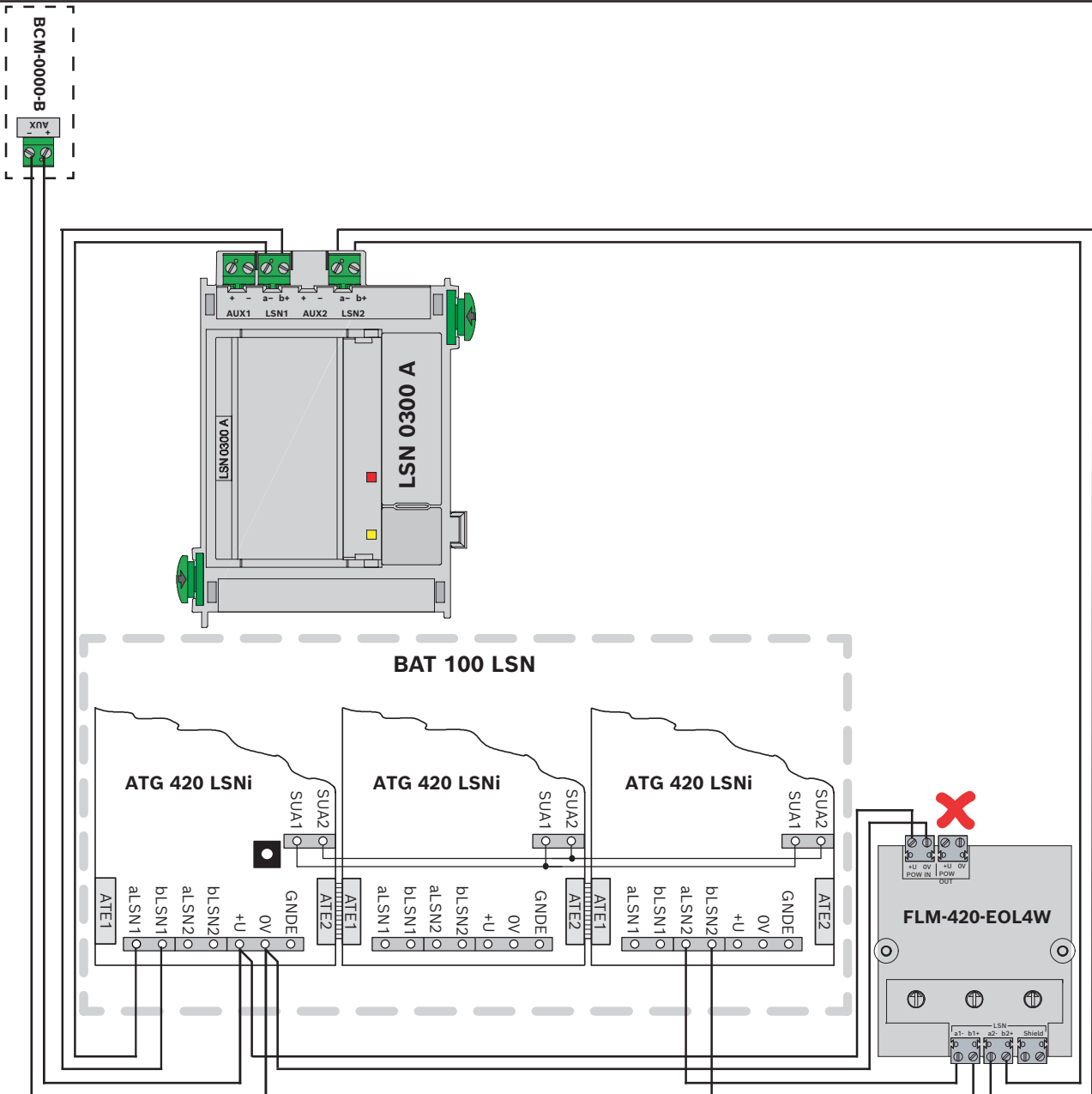




BAT 100 LSN  
ATG 420 LSNi



ELS



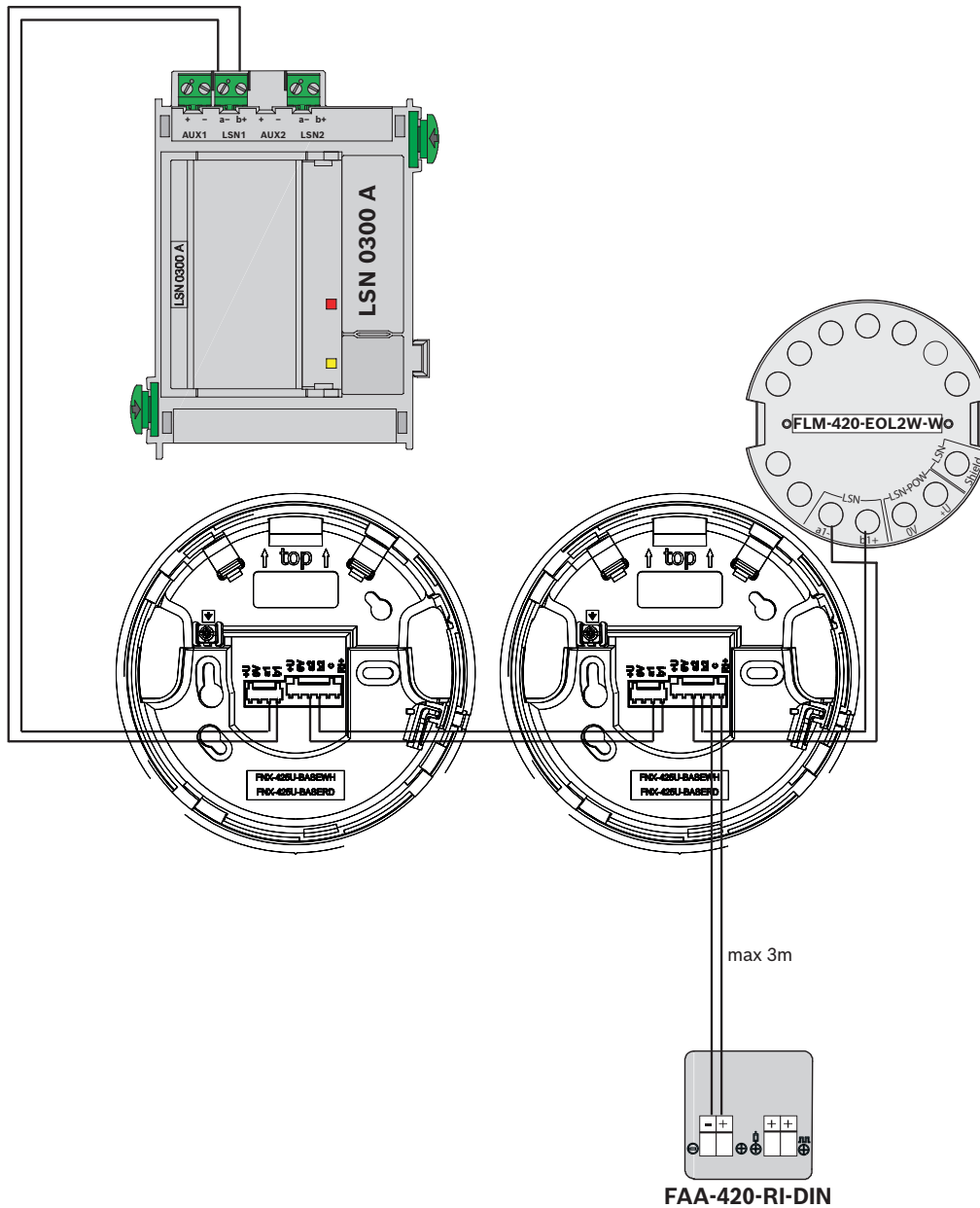




**FNX-425U-WFWH**  
**FNX-425U-RFWH**  
**FNX-425U-WFRD**  
**FNX-425U-RFRD**



**ELS**





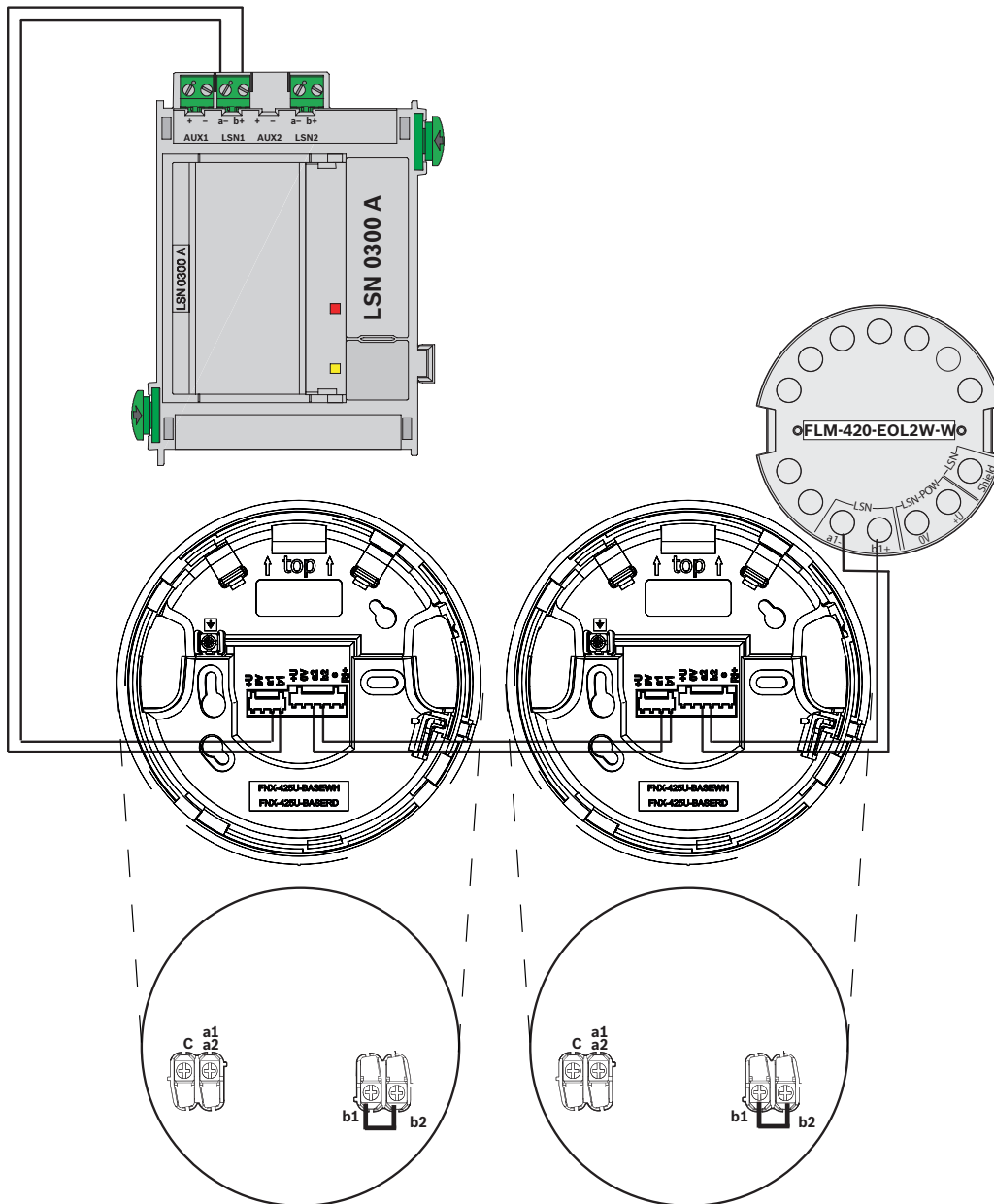
FNX-425U-WFWH  
 FNX-425U-RFWH  
 FNX-425U-WFRD  
 FNX-425U-RFRD

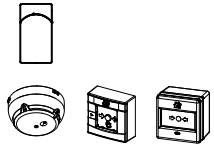
+

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



ELS



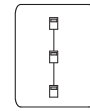


**FWI-270**

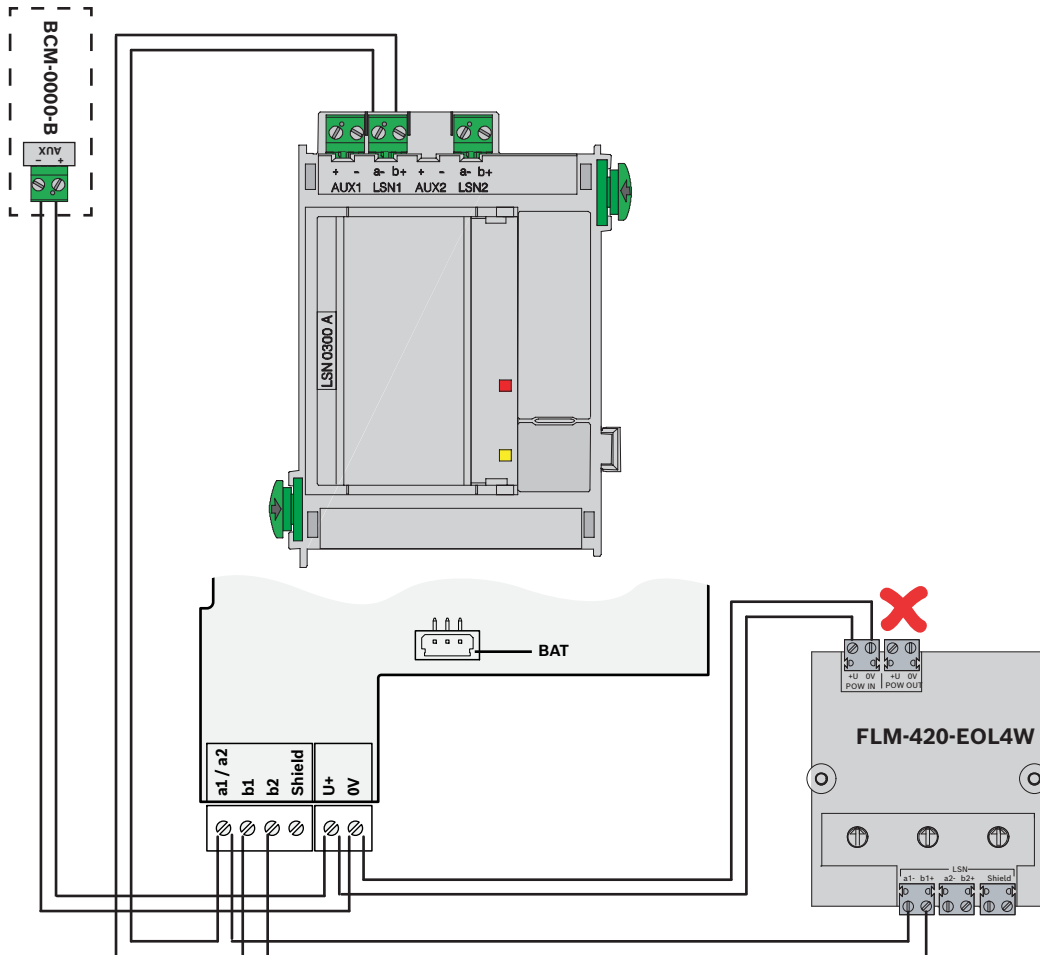
**FDOOT271-O**

**FDM275-O**

**FDM273-O**



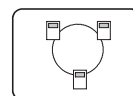
**ELS**



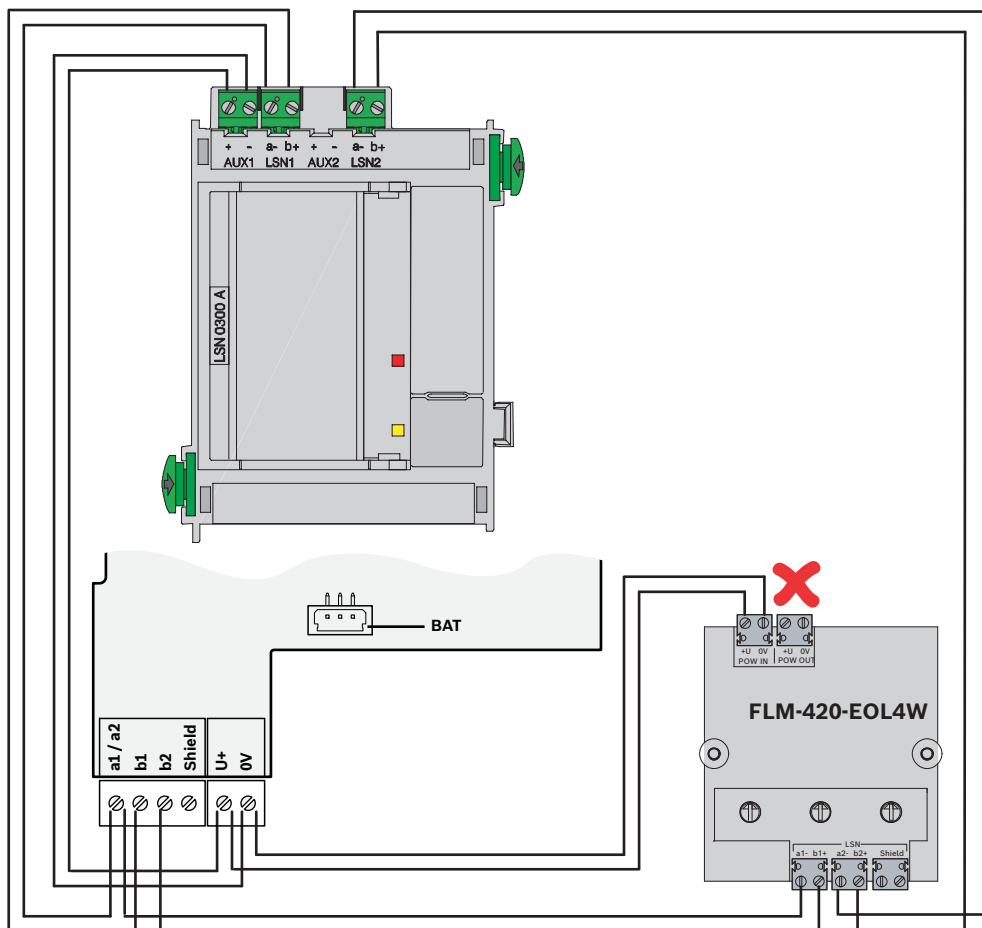


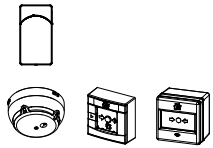
**FWI-270**

**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**



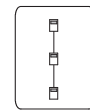
**ELS**



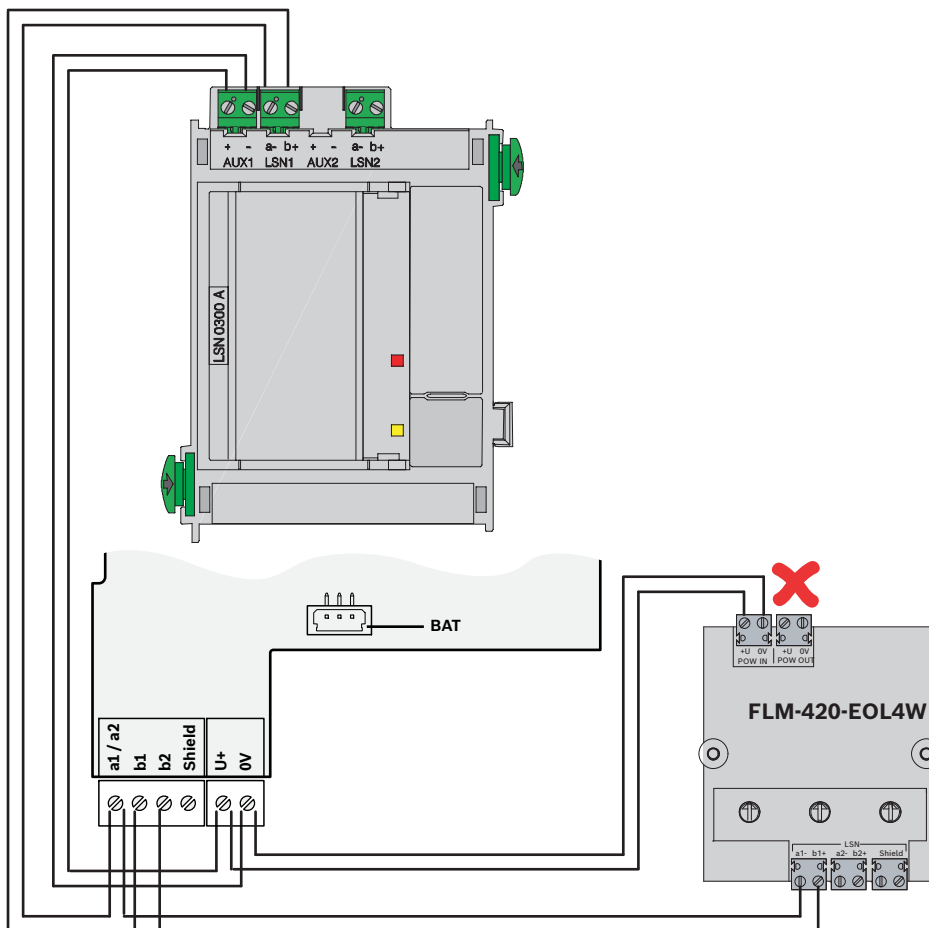


**FWI-270**

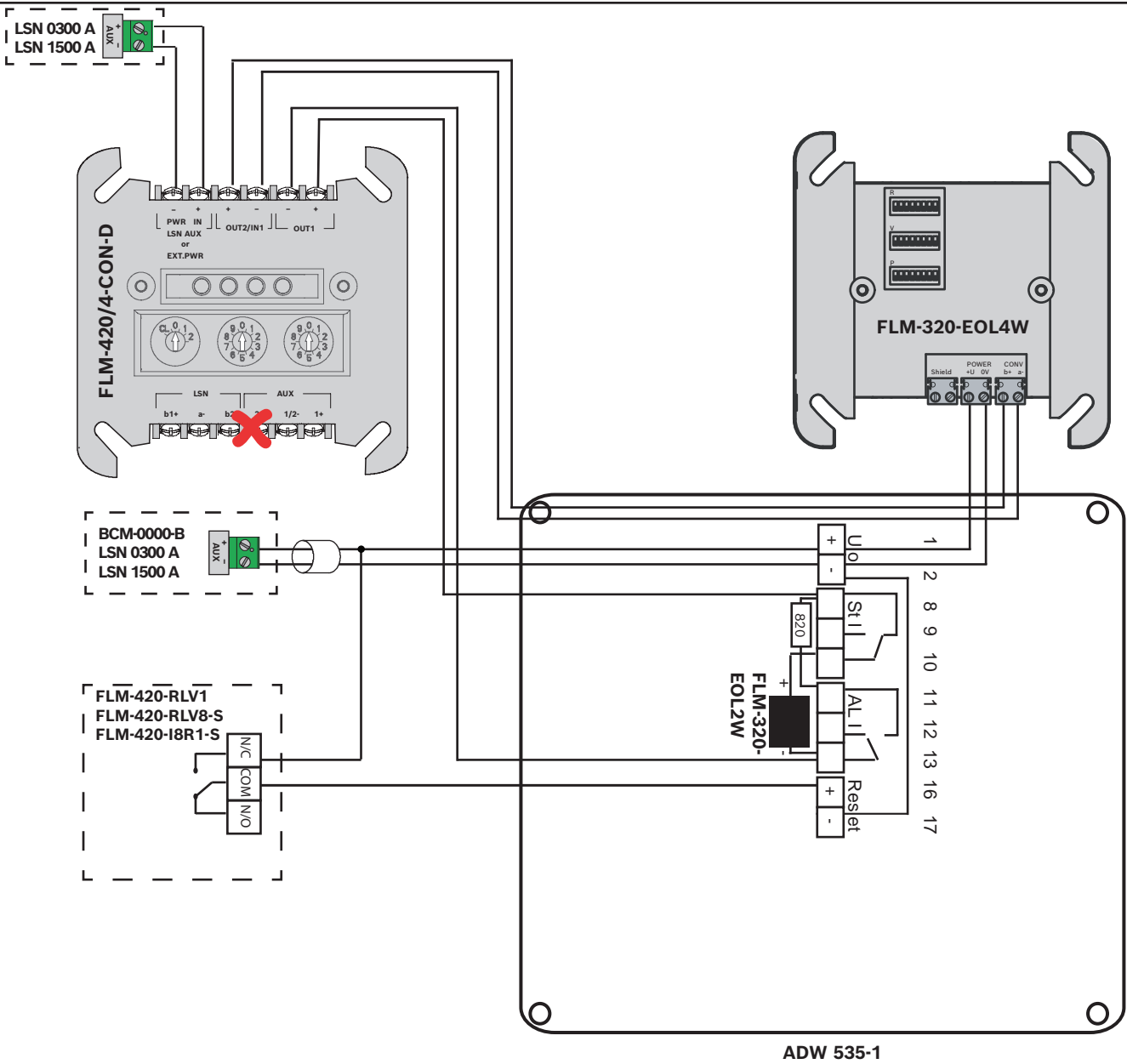
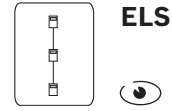
**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**

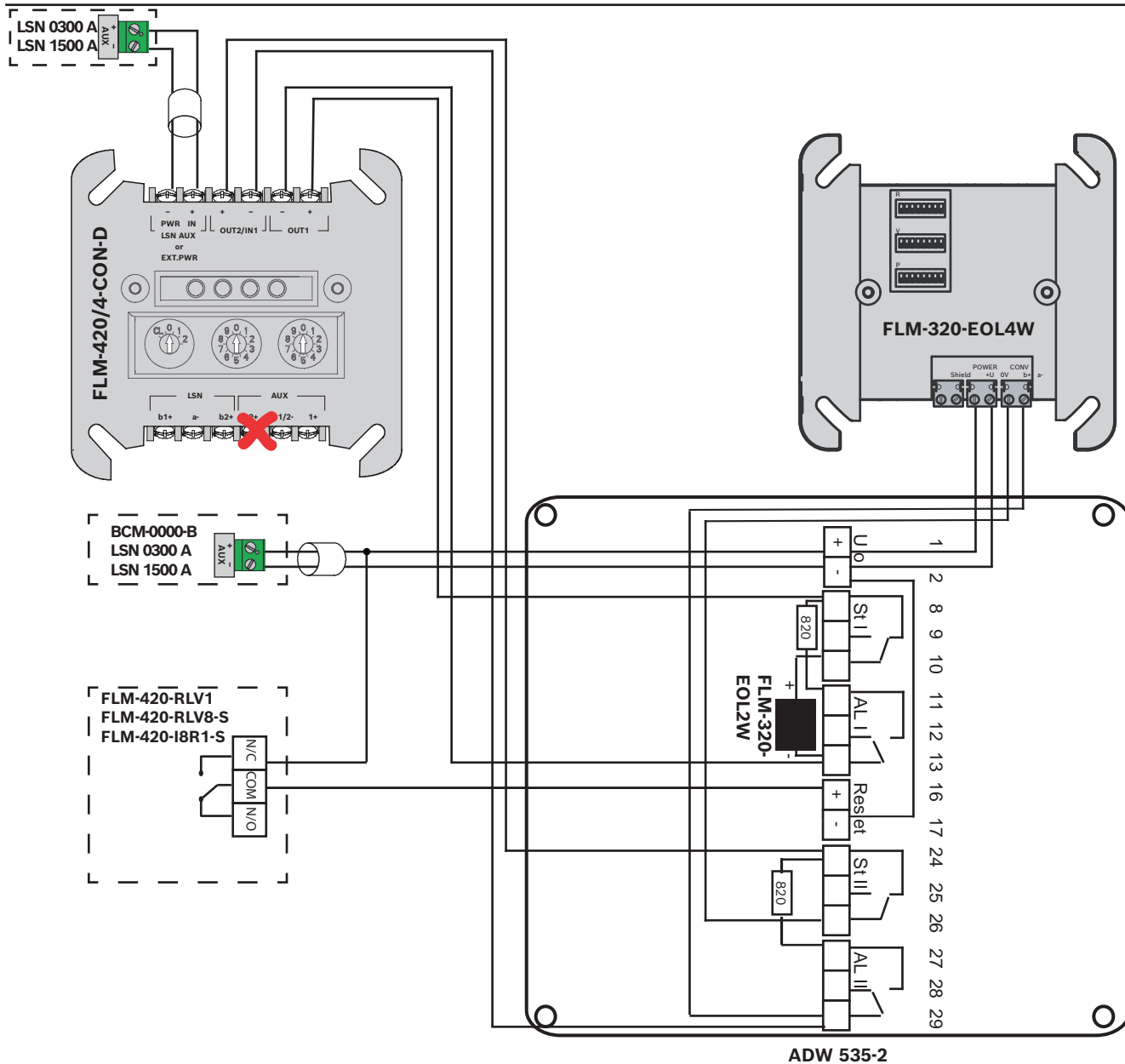
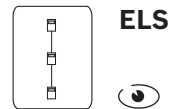


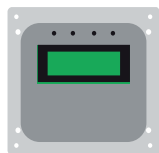
**ELS**



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



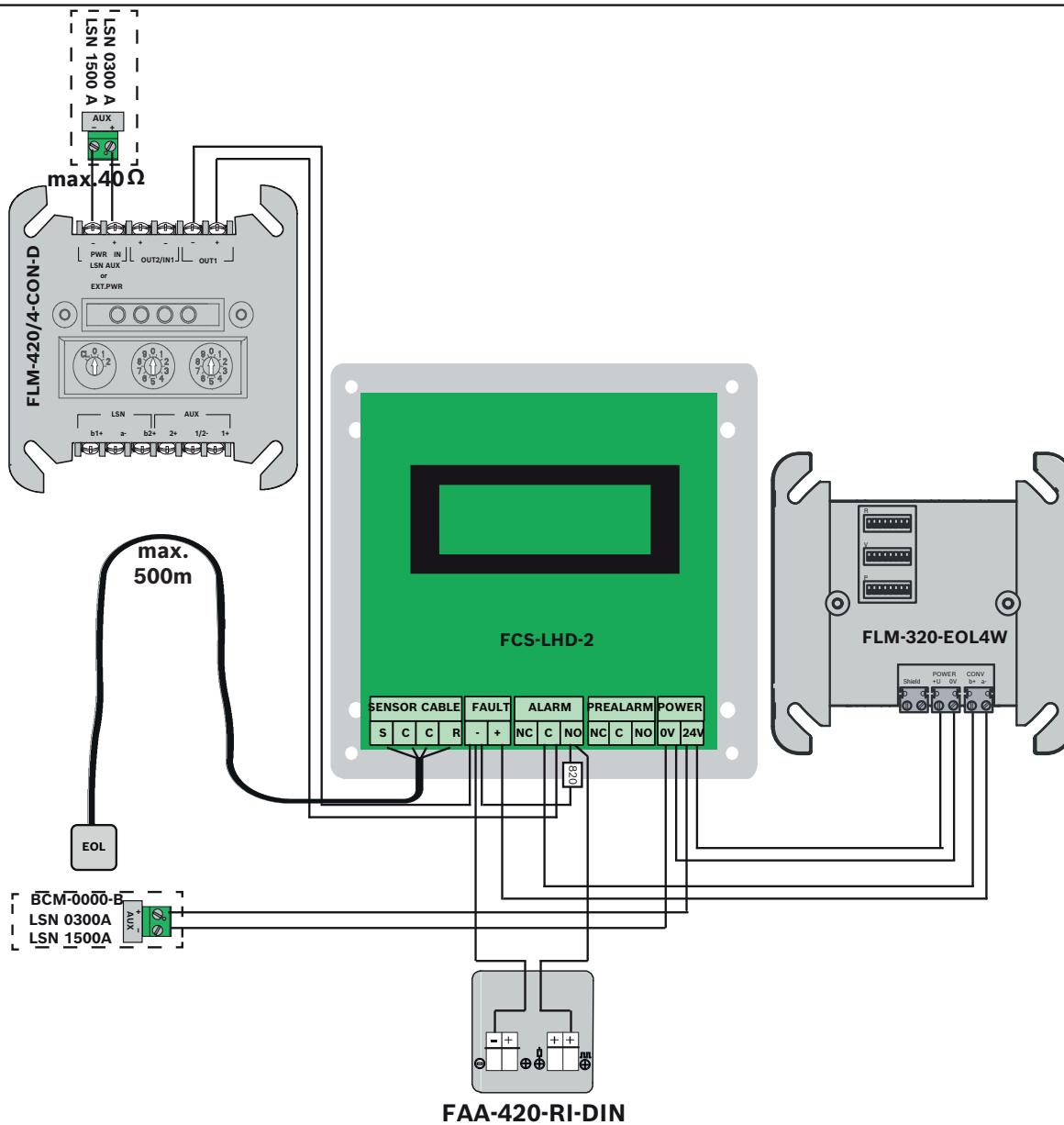




ALARMLINE II



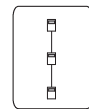
ELS



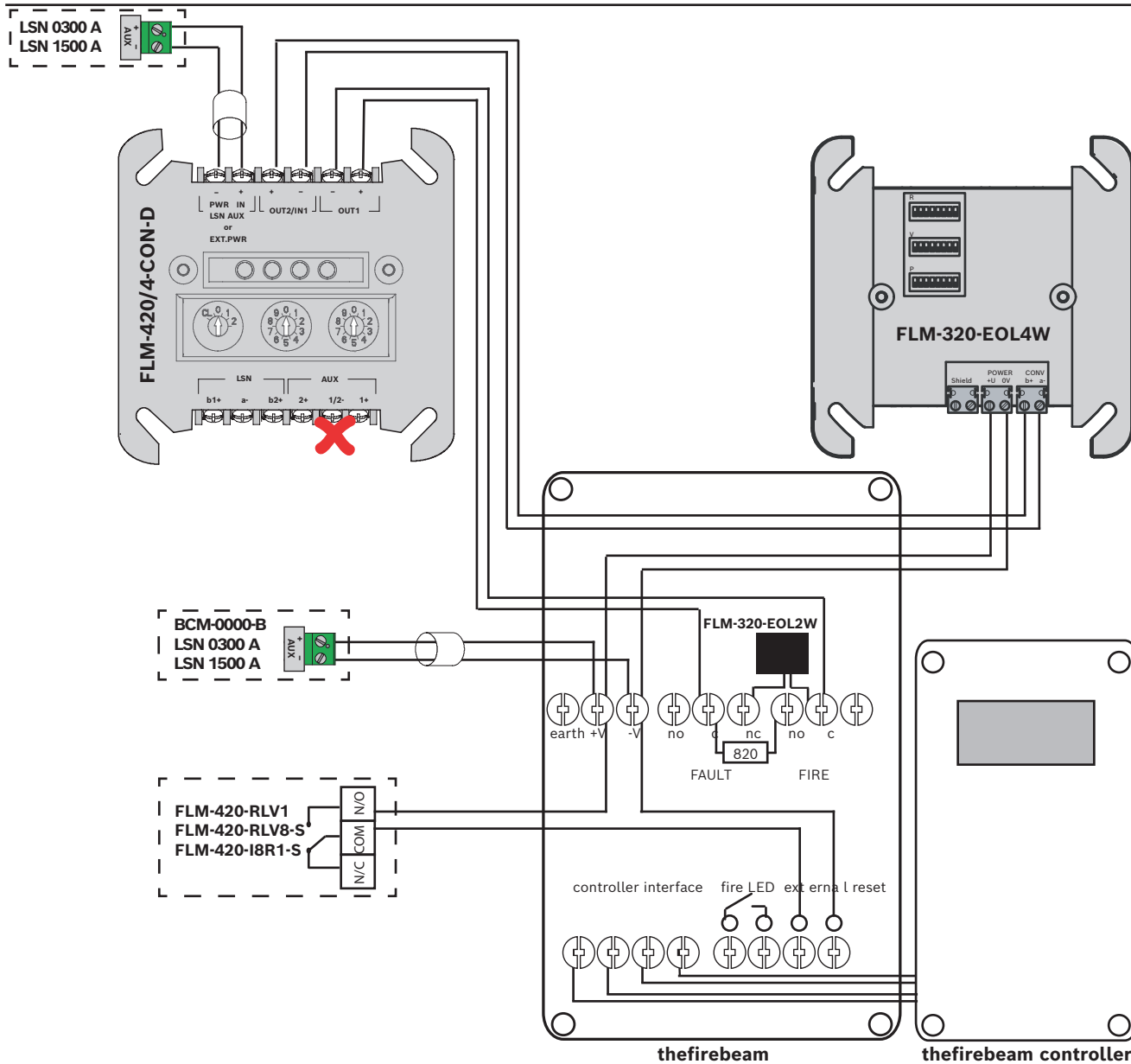


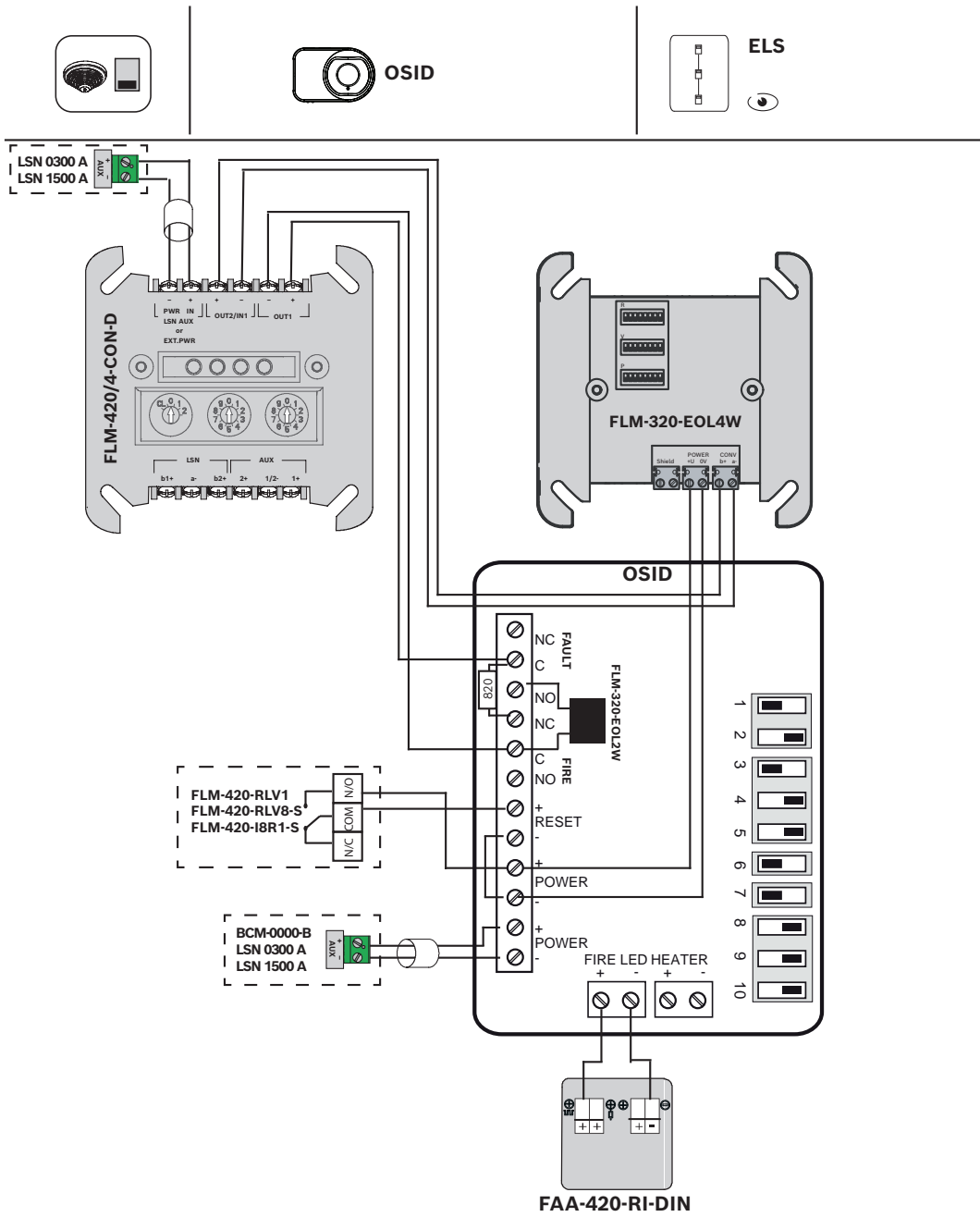


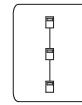
thefirebeam nano  
thefirebeam standard  
thefirebeam foveo



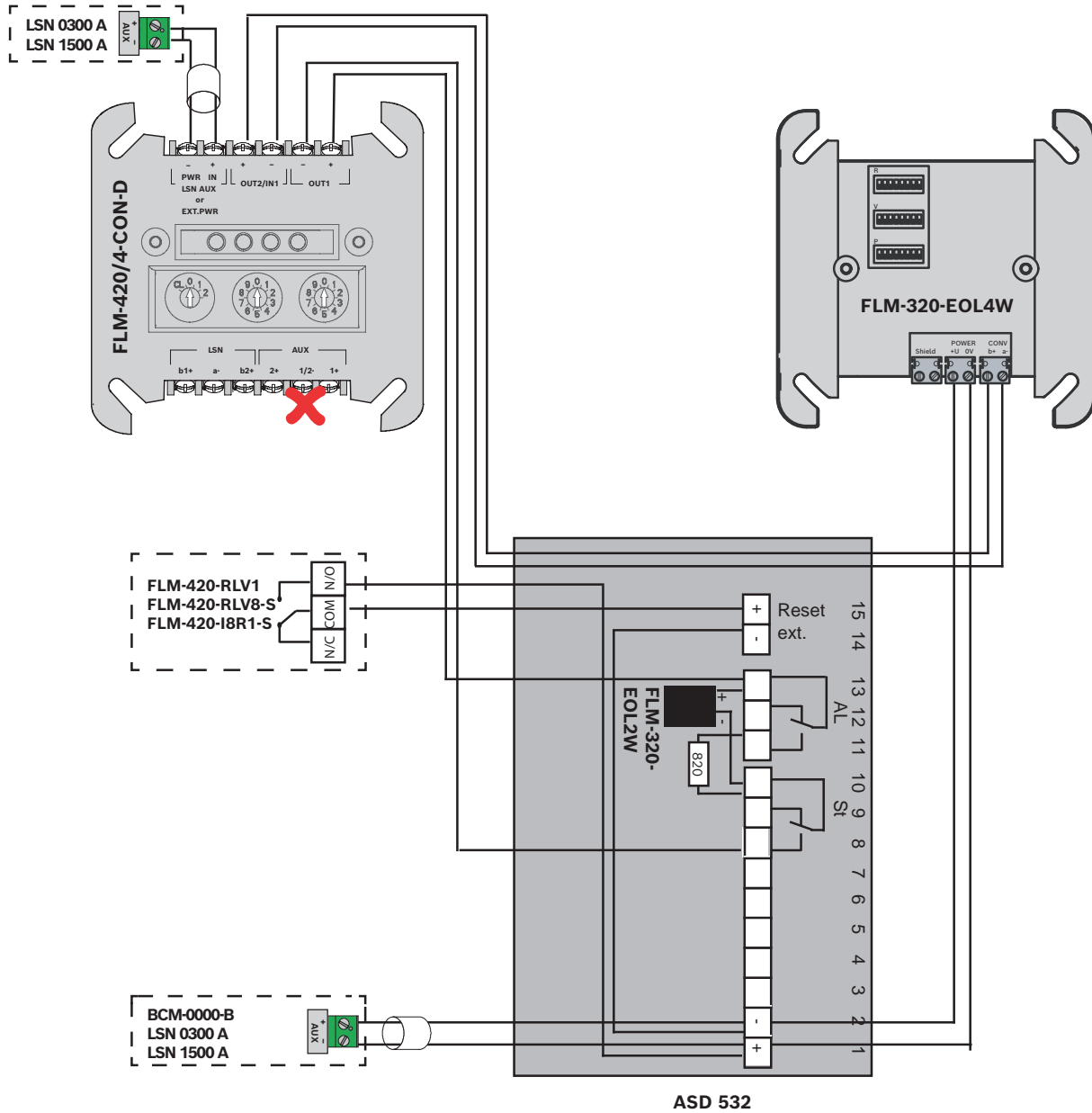
ELS

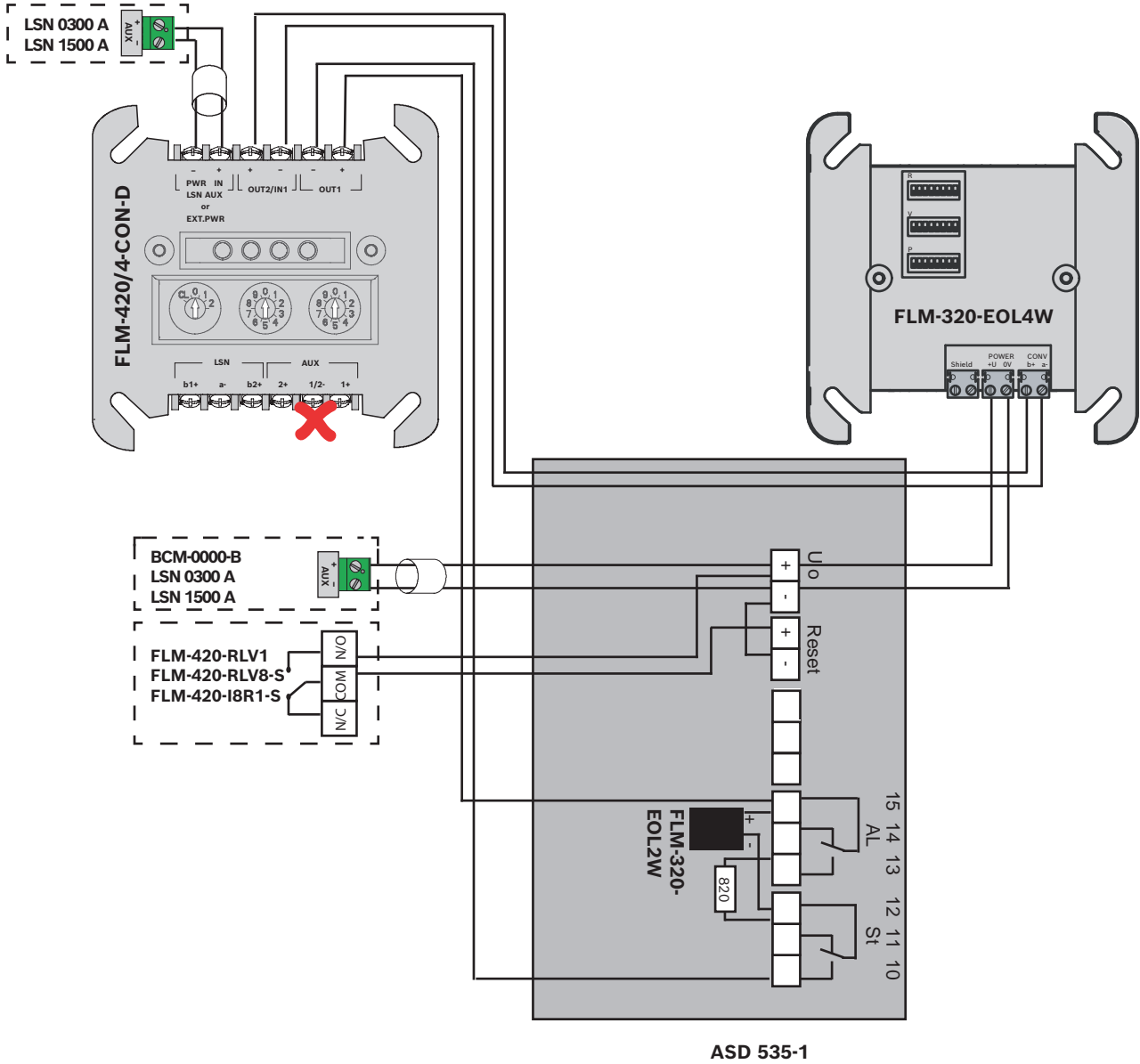
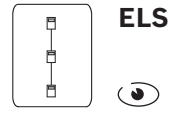


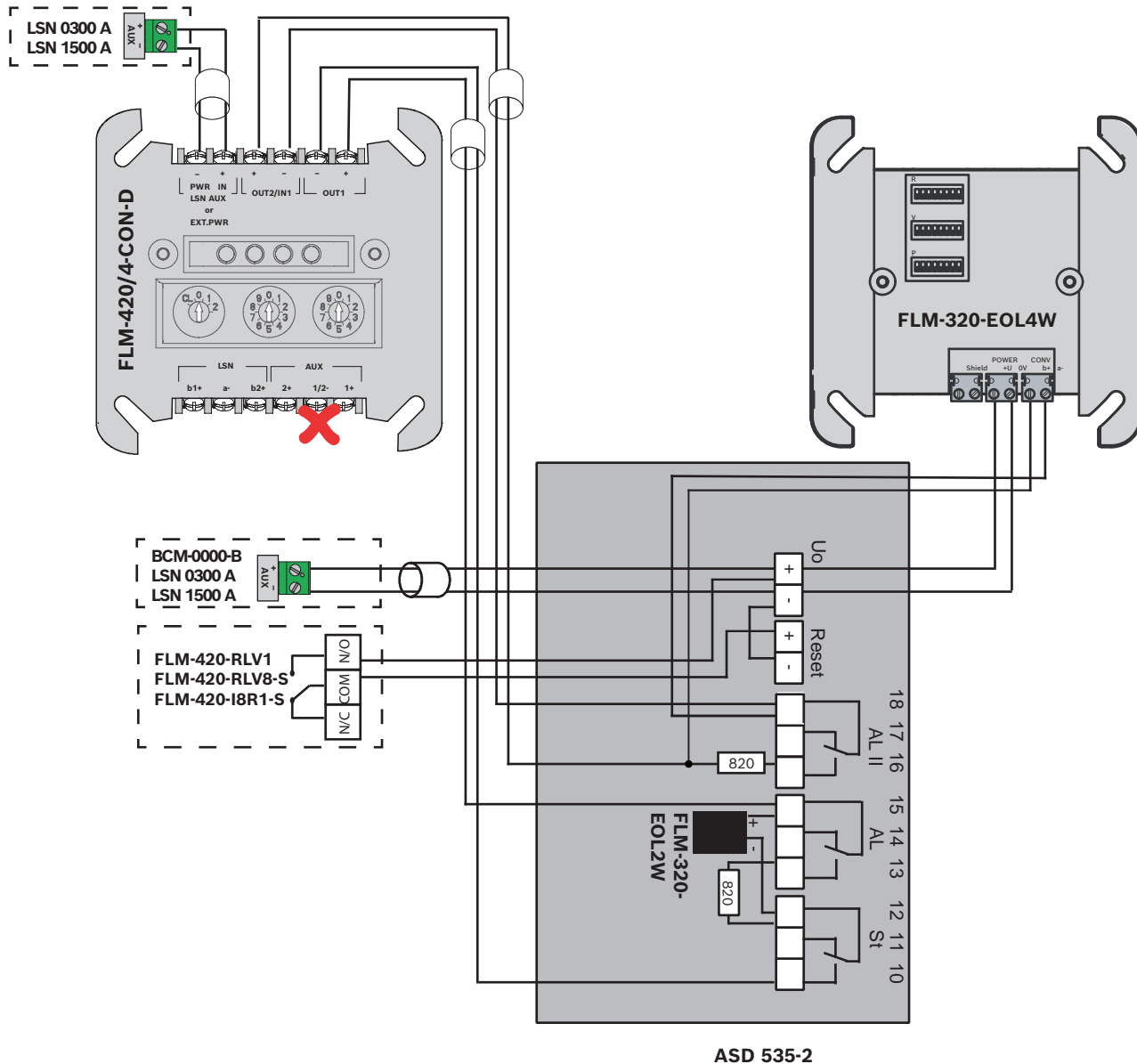
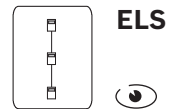




ELS

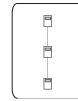






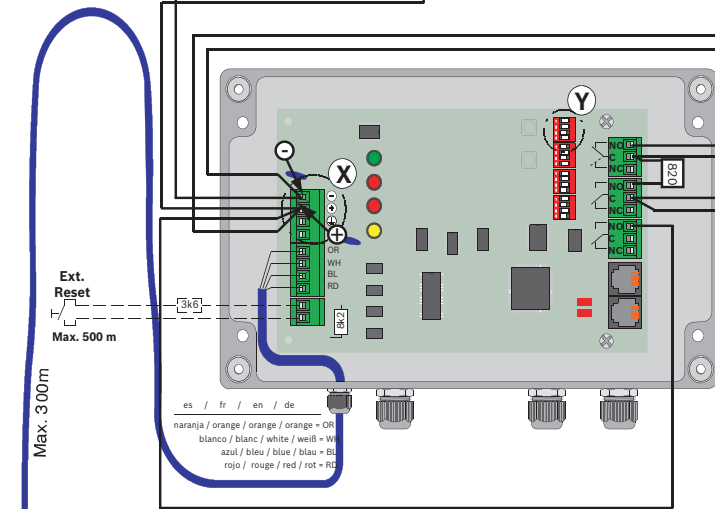
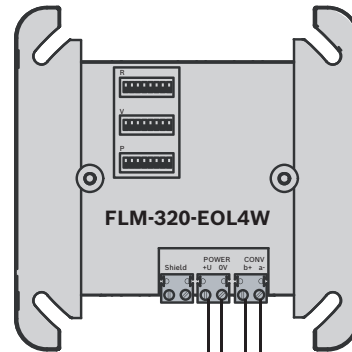
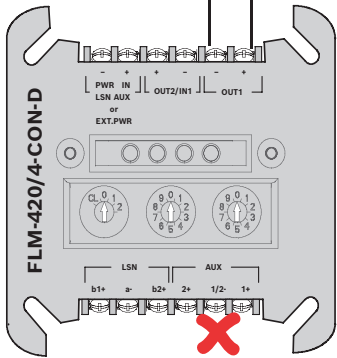


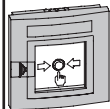
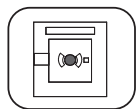
FCS-LWM-1



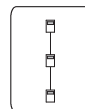
ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A

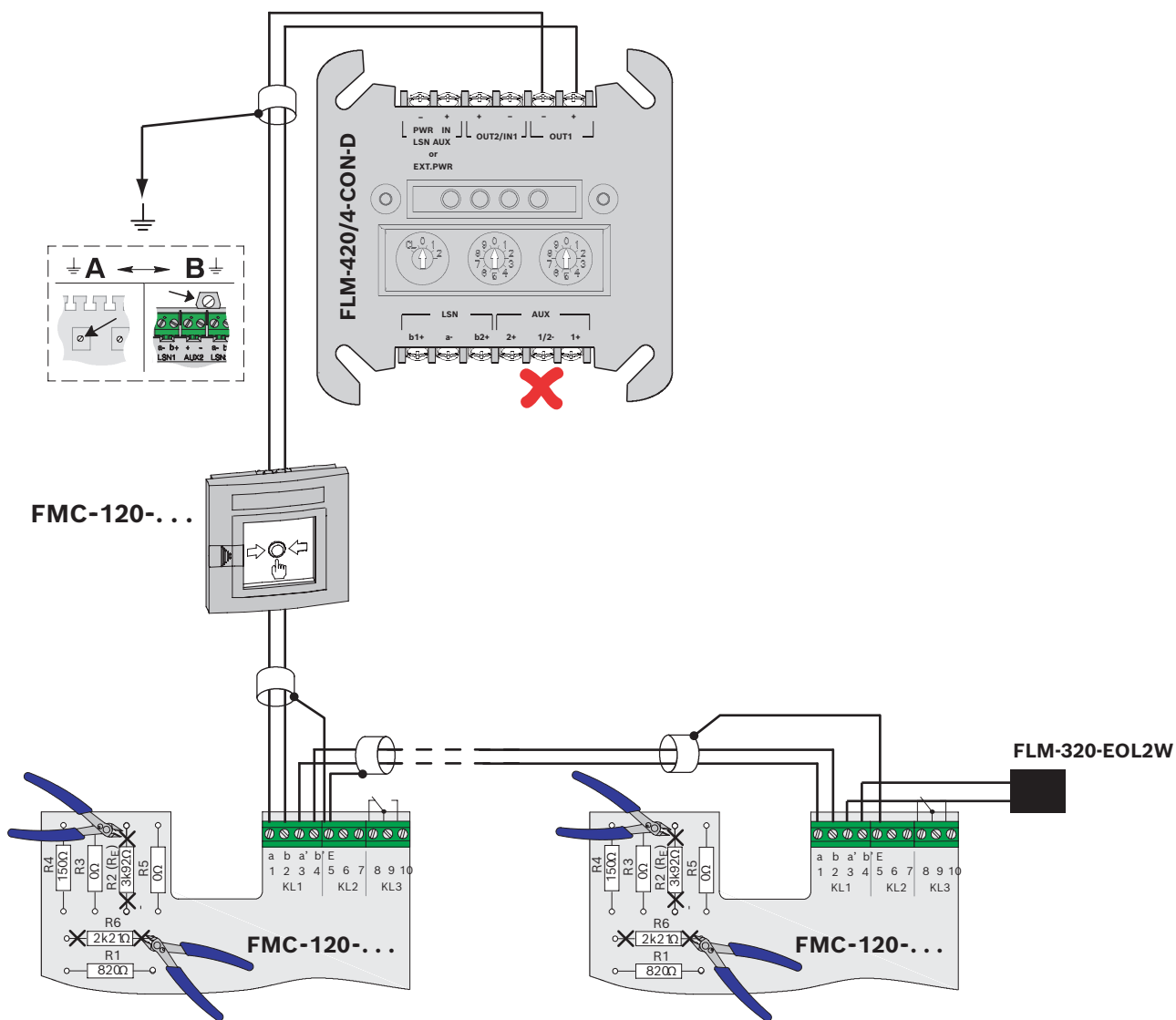


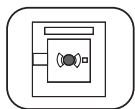


FMC-120-DKM-G-R FMC-120-DKM-G-Y  
 FMC-120-DKM-H-R FMC-120-EST-G-B  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B

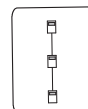


ELS

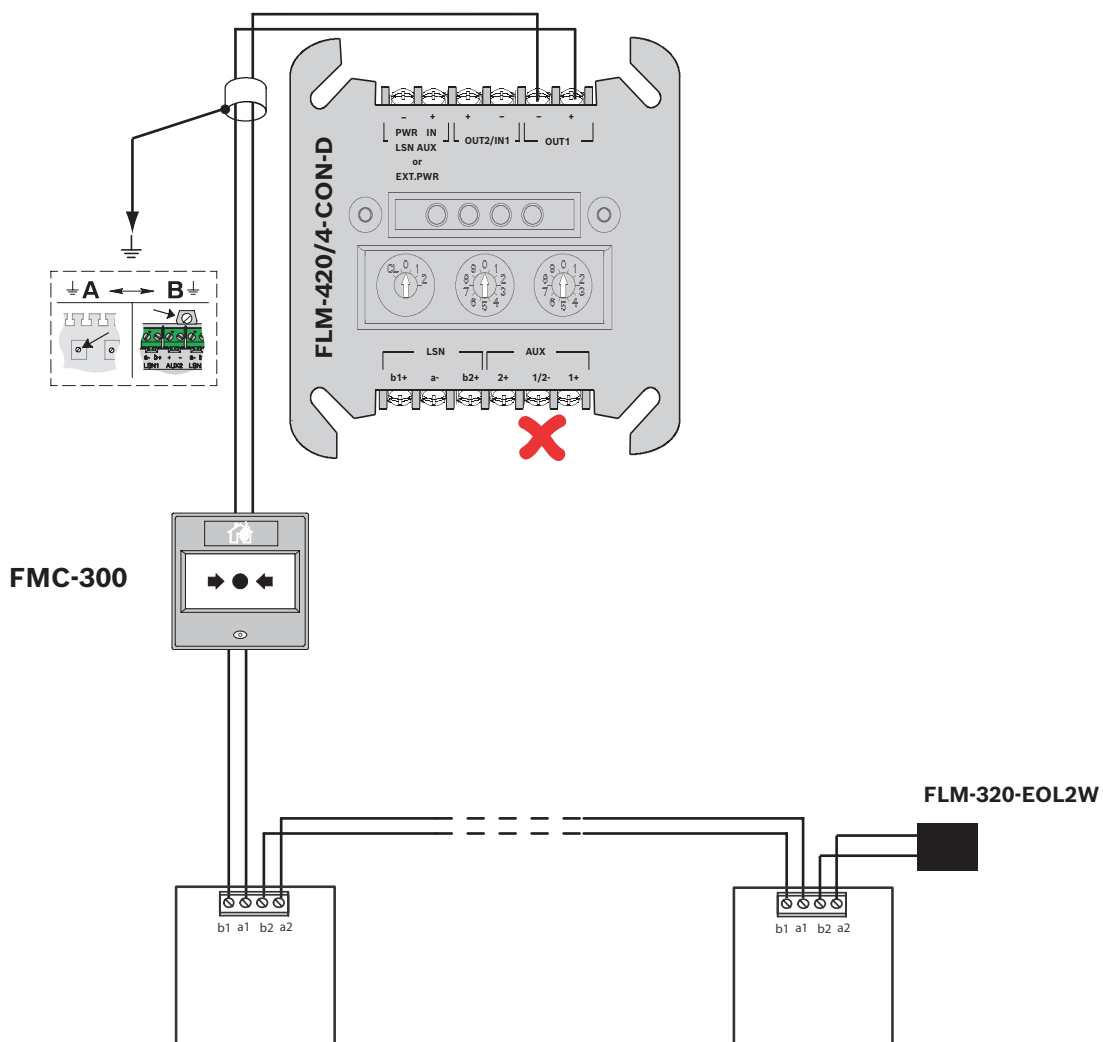




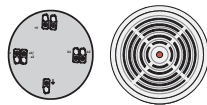
**FMC-300**



**ELS**



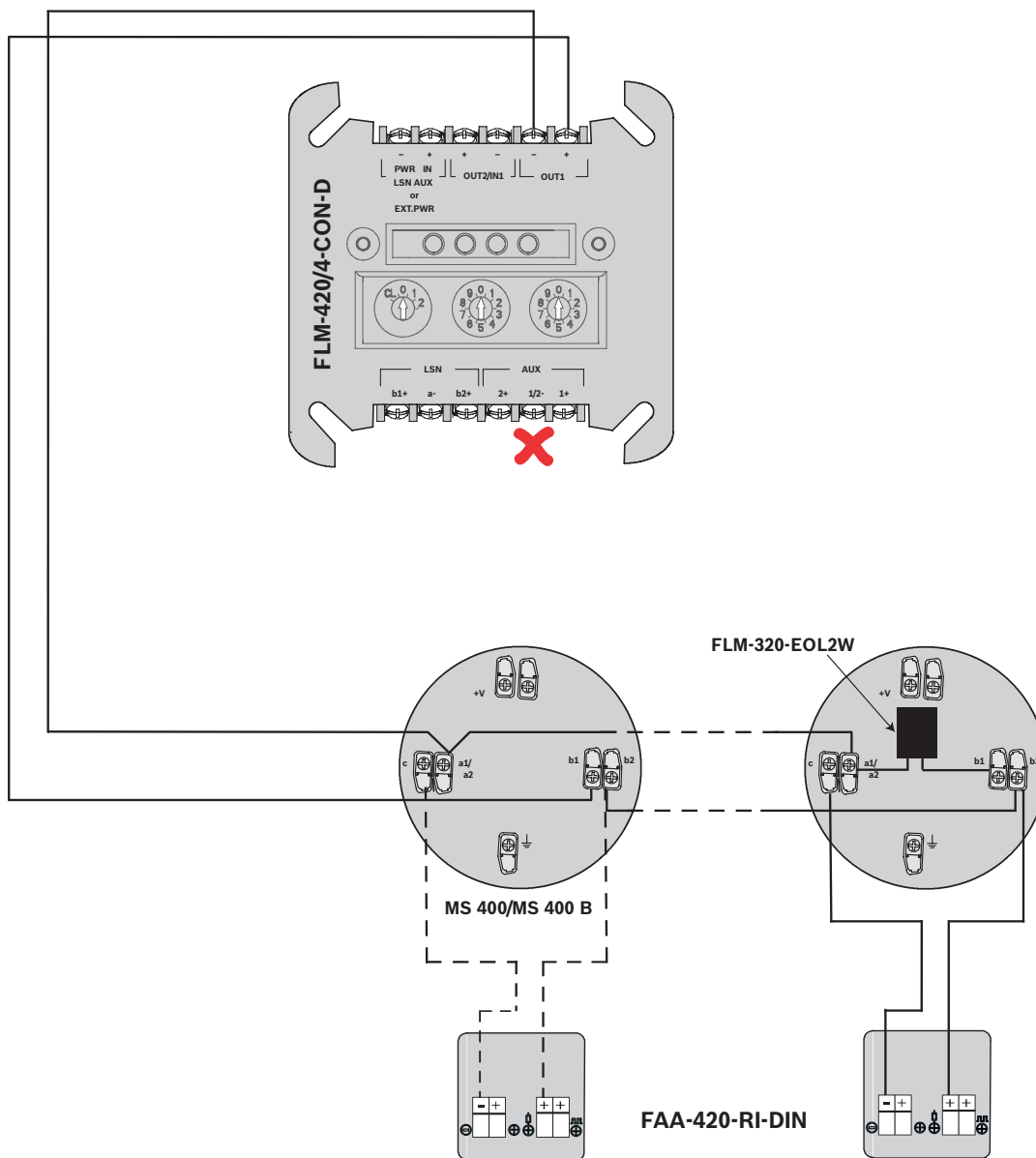




MSS 400, MSS 400 B  
 FCH-320-T320  
 FCH-T320-R470, FCH-T320-FSA  
 FCP-O320, FCP-O320-R470  
 FCP-OC320, FCP-OC320-R470  
 FCP-OT320, FCP-OT320-R470



ELS

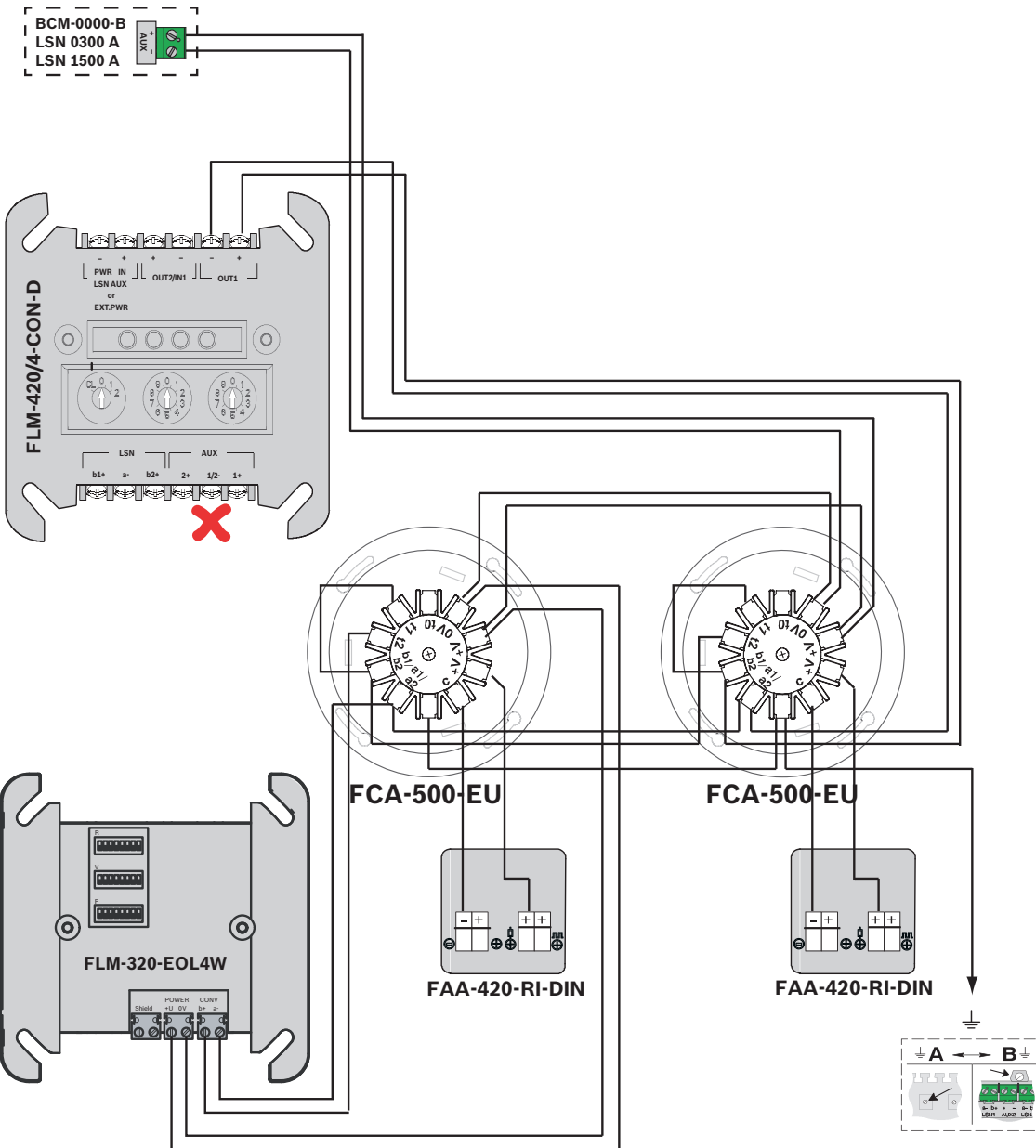


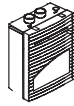


FCP-500

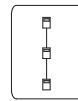


ELS

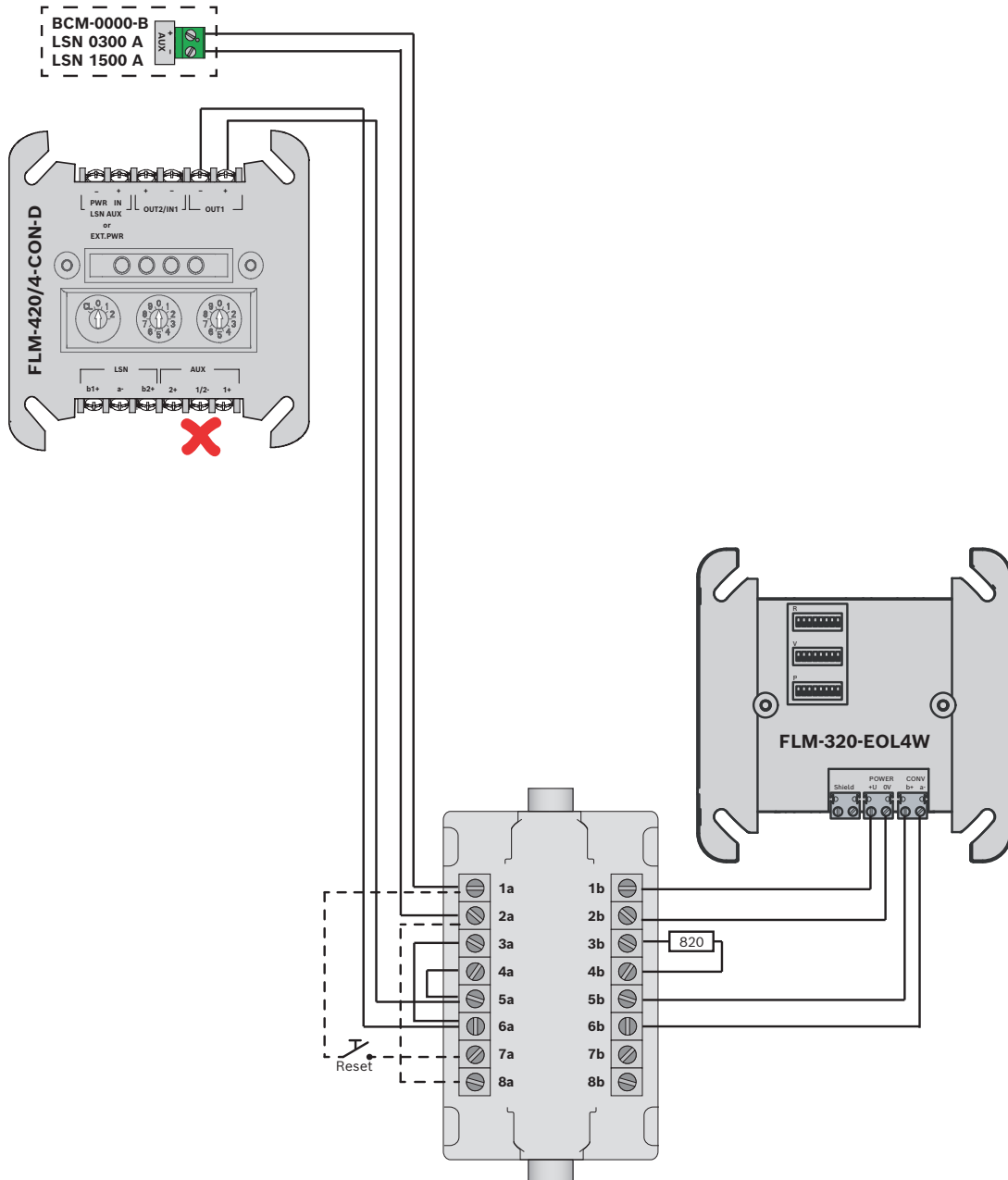


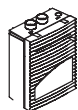


FCS-320-TM Series

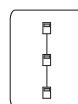


ELS



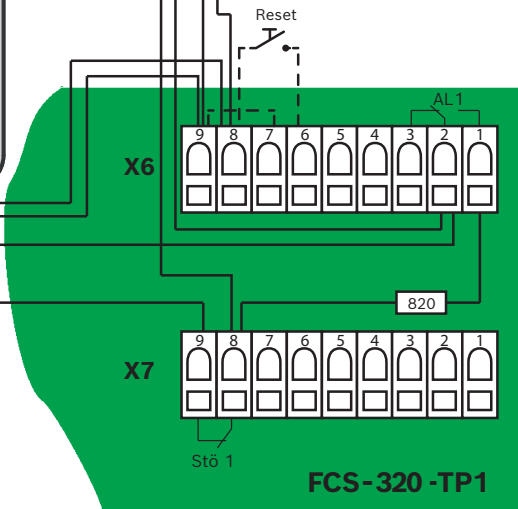
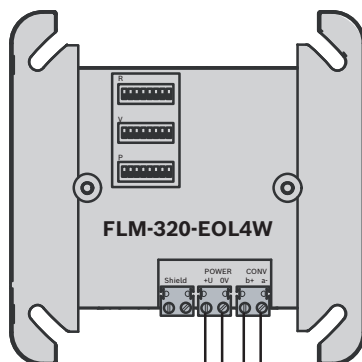
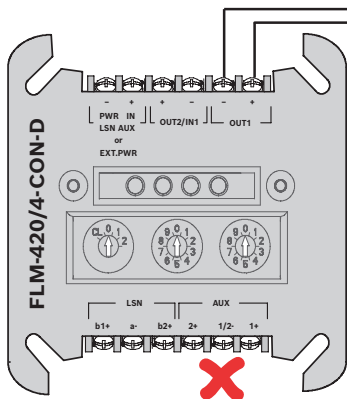


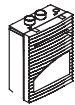
FCS-320-TP Series



ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



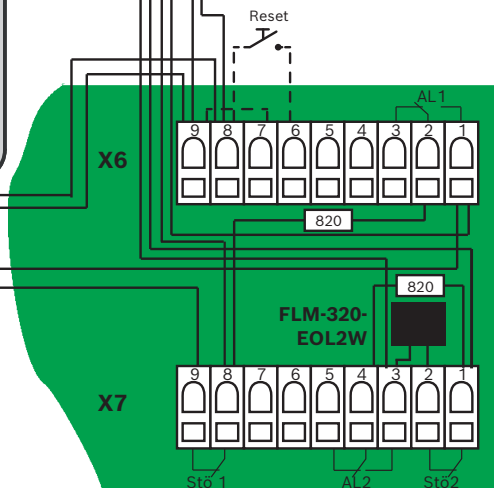
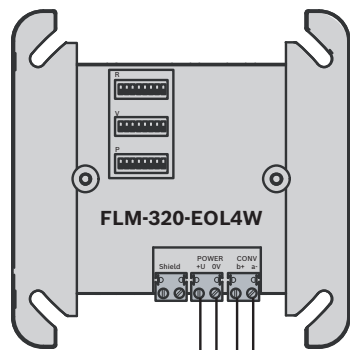
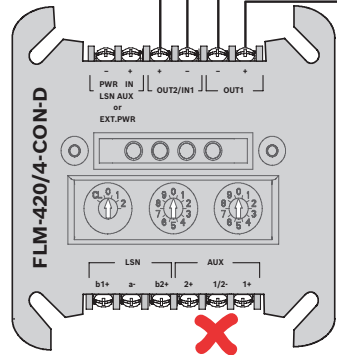


FCS-320-TP Series

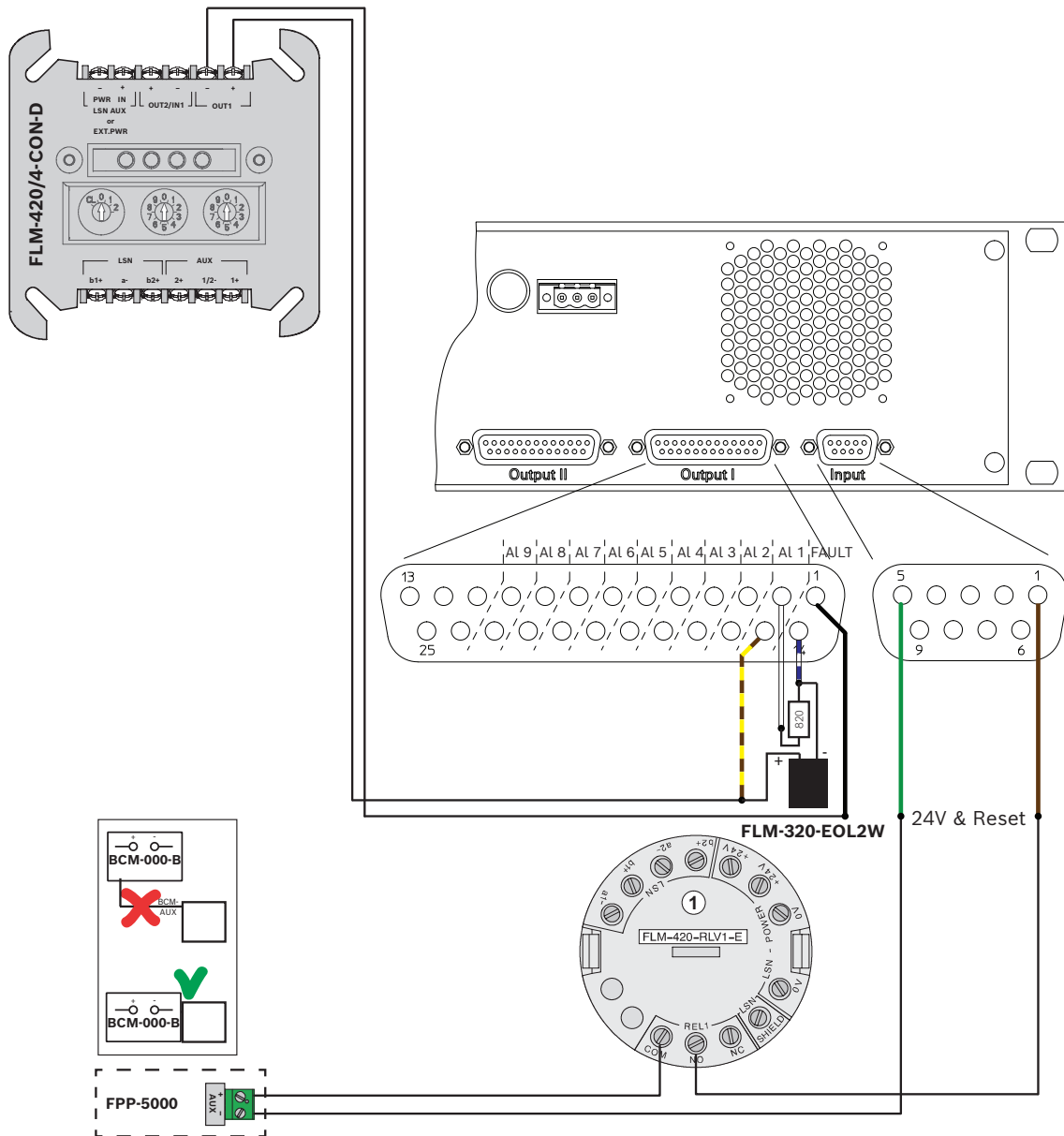
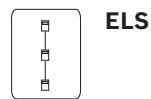


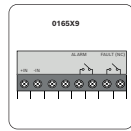
ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A

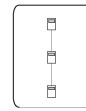


FCS-320-TP2

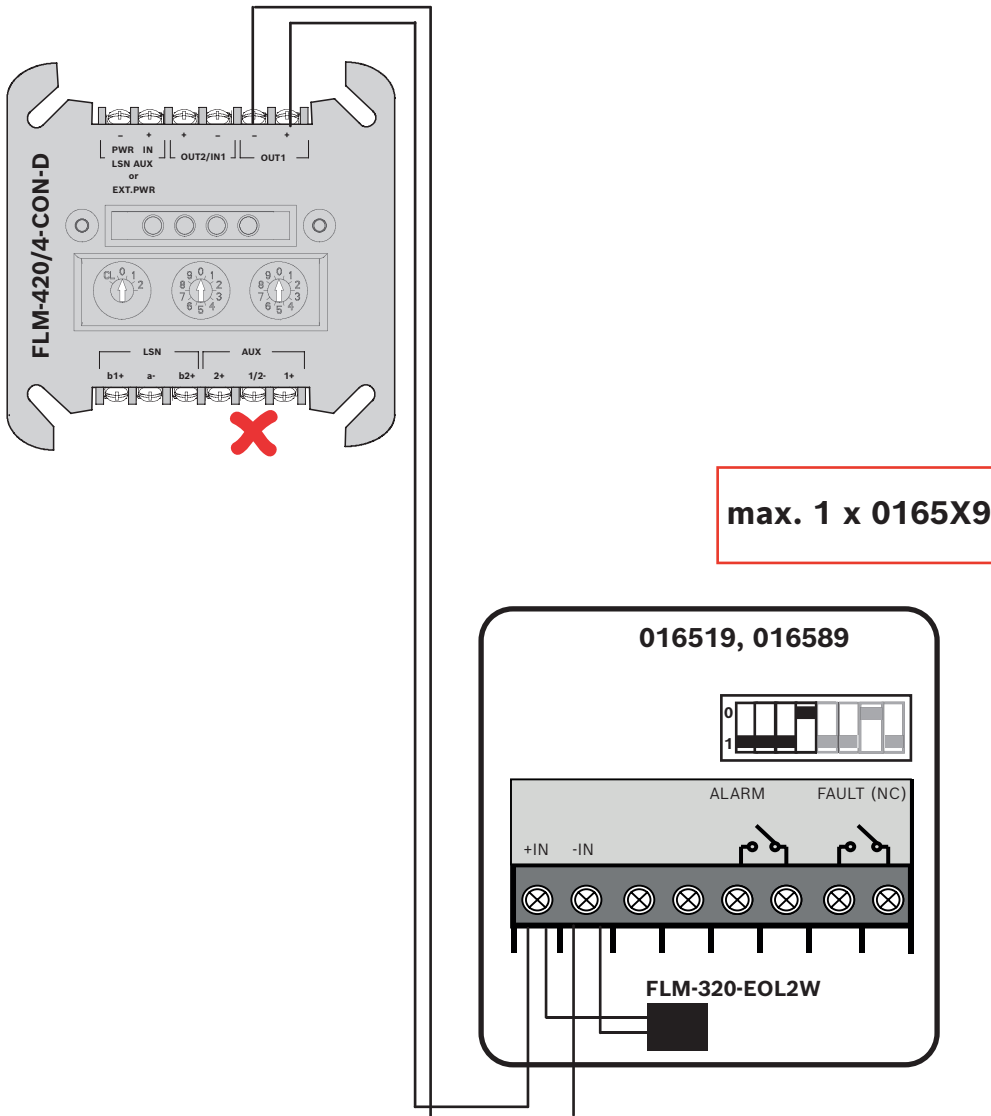


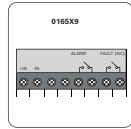


**016519, 016589**  
**IR3 Flame Detector**

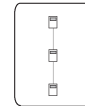


**ELS**

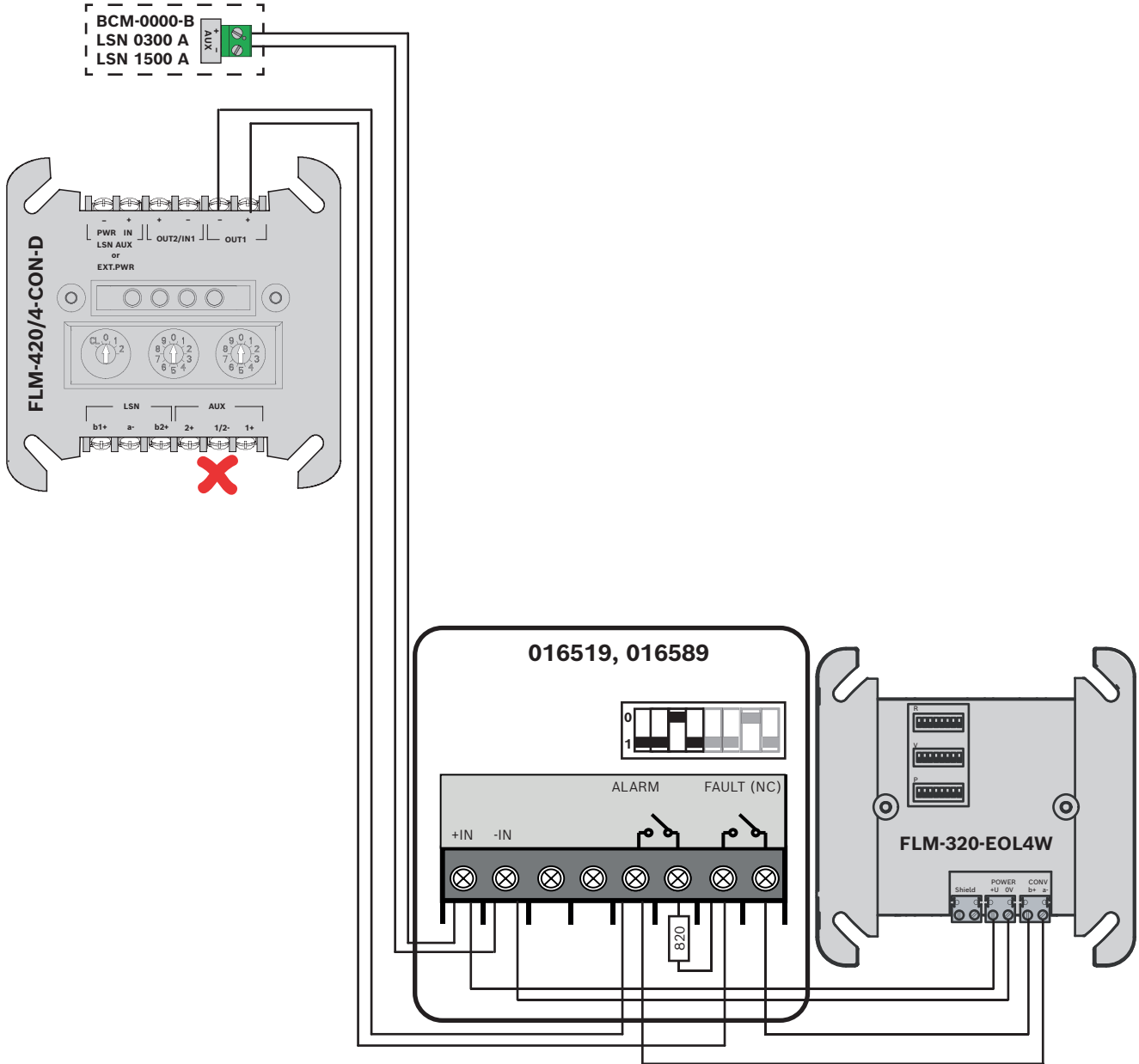




**016519, 016589**  
**IR3 Flame Detector**



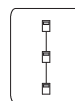
**ELS**



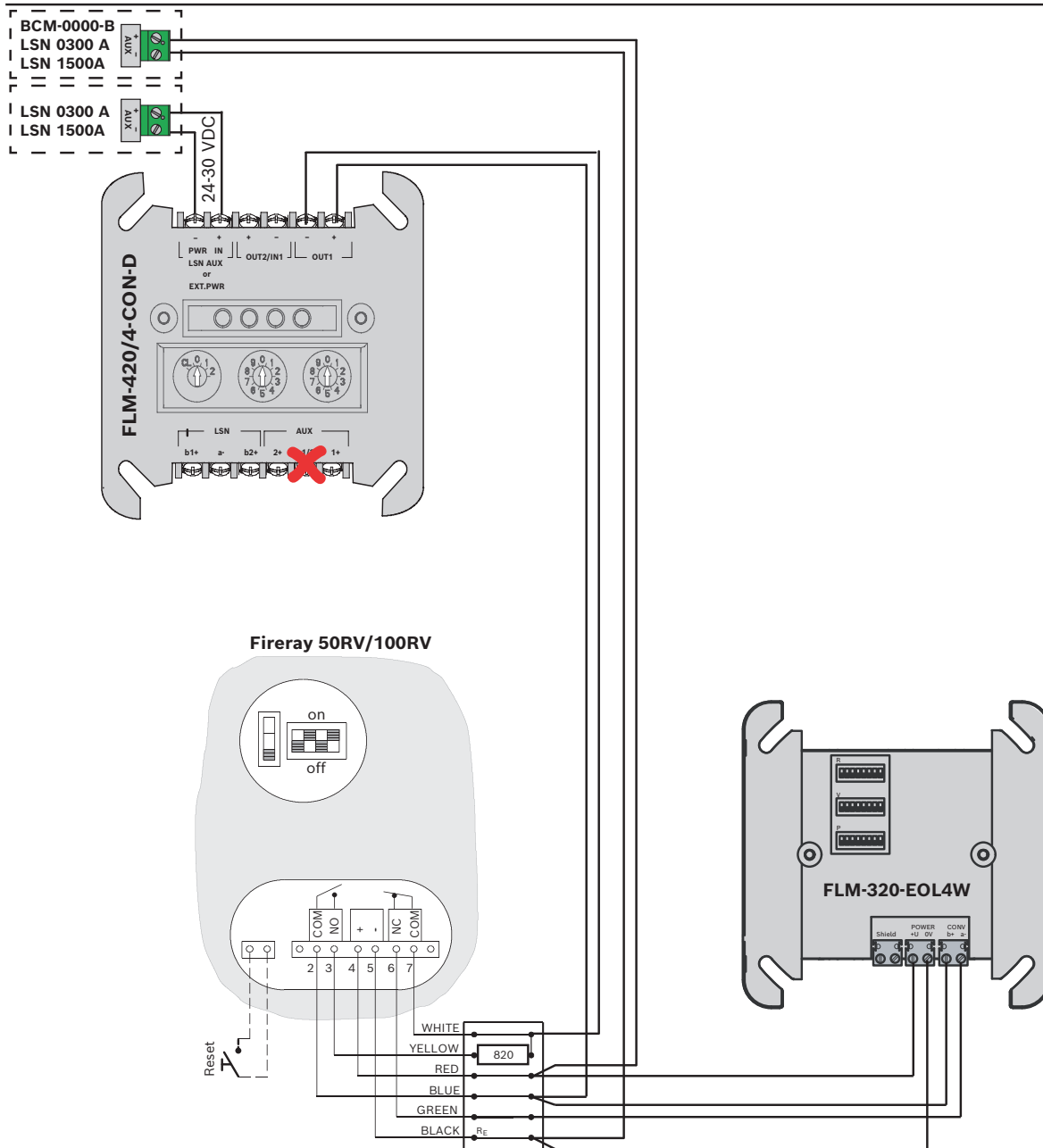




**Fireray 50RV  
Fireray 100RV**



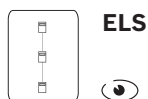
**ELS**



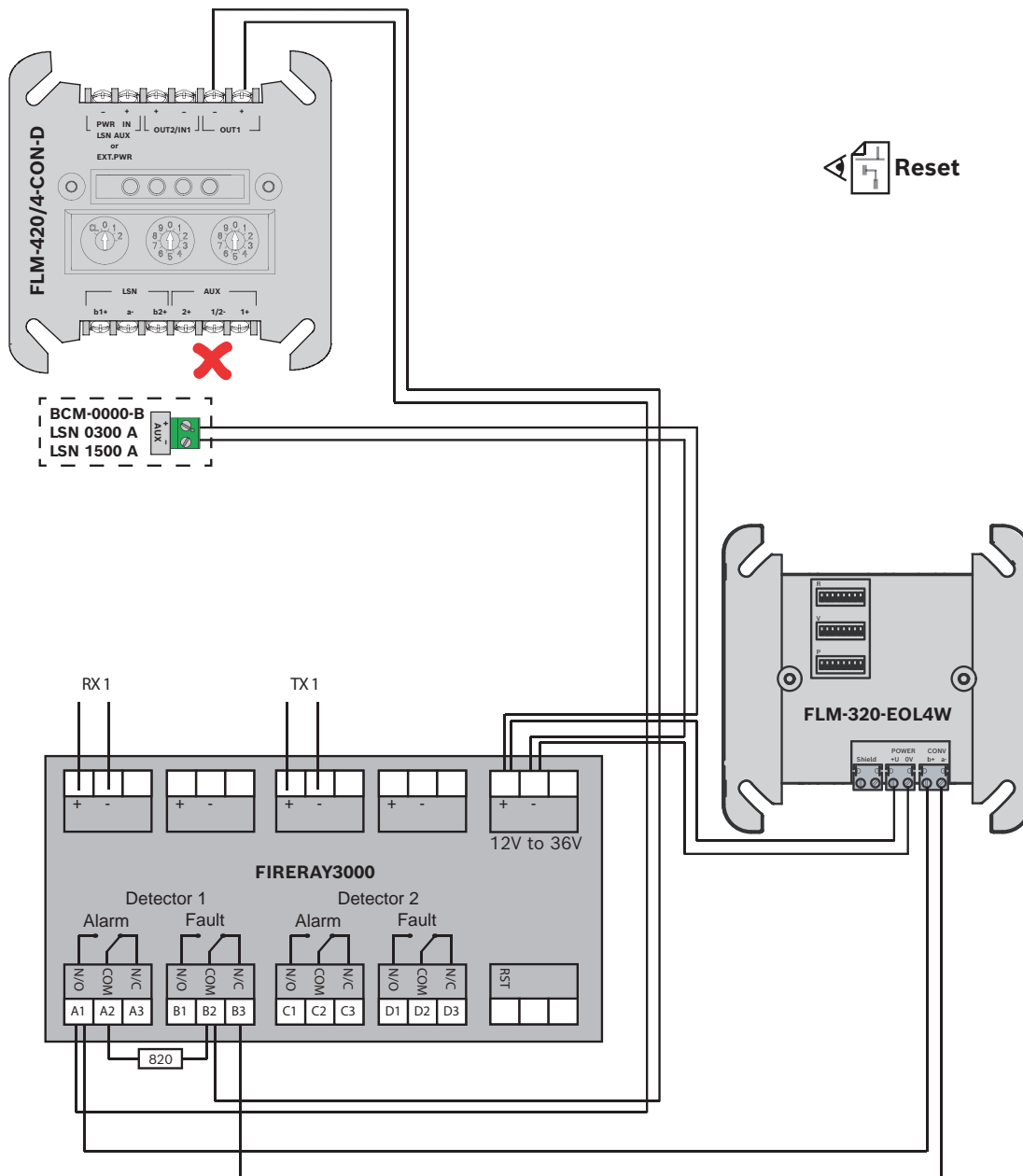


**FIRERAY3000**

1 x



**ELS**

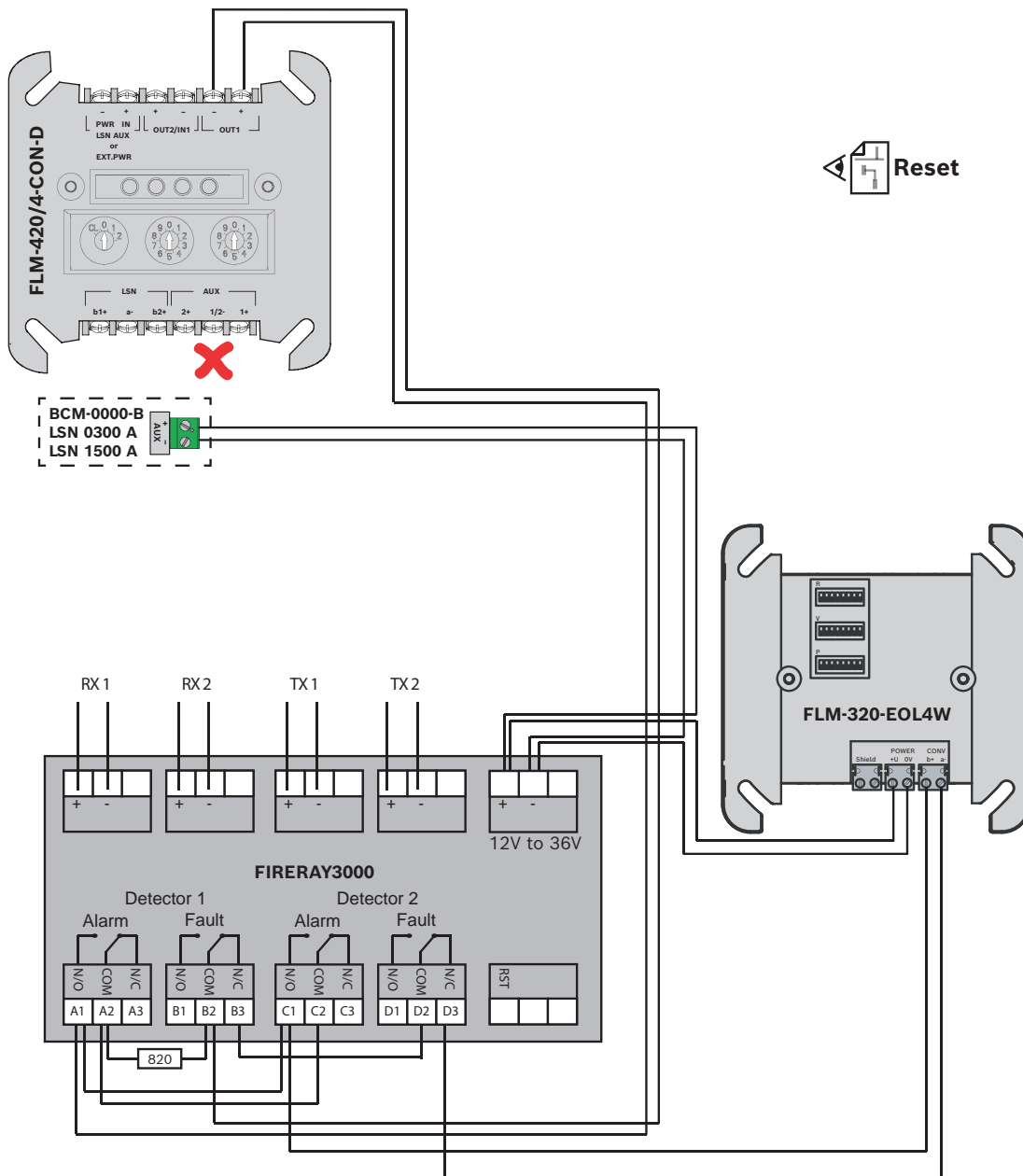




**FIRERAY3000**  
2 x **OUT1**



**ELS**

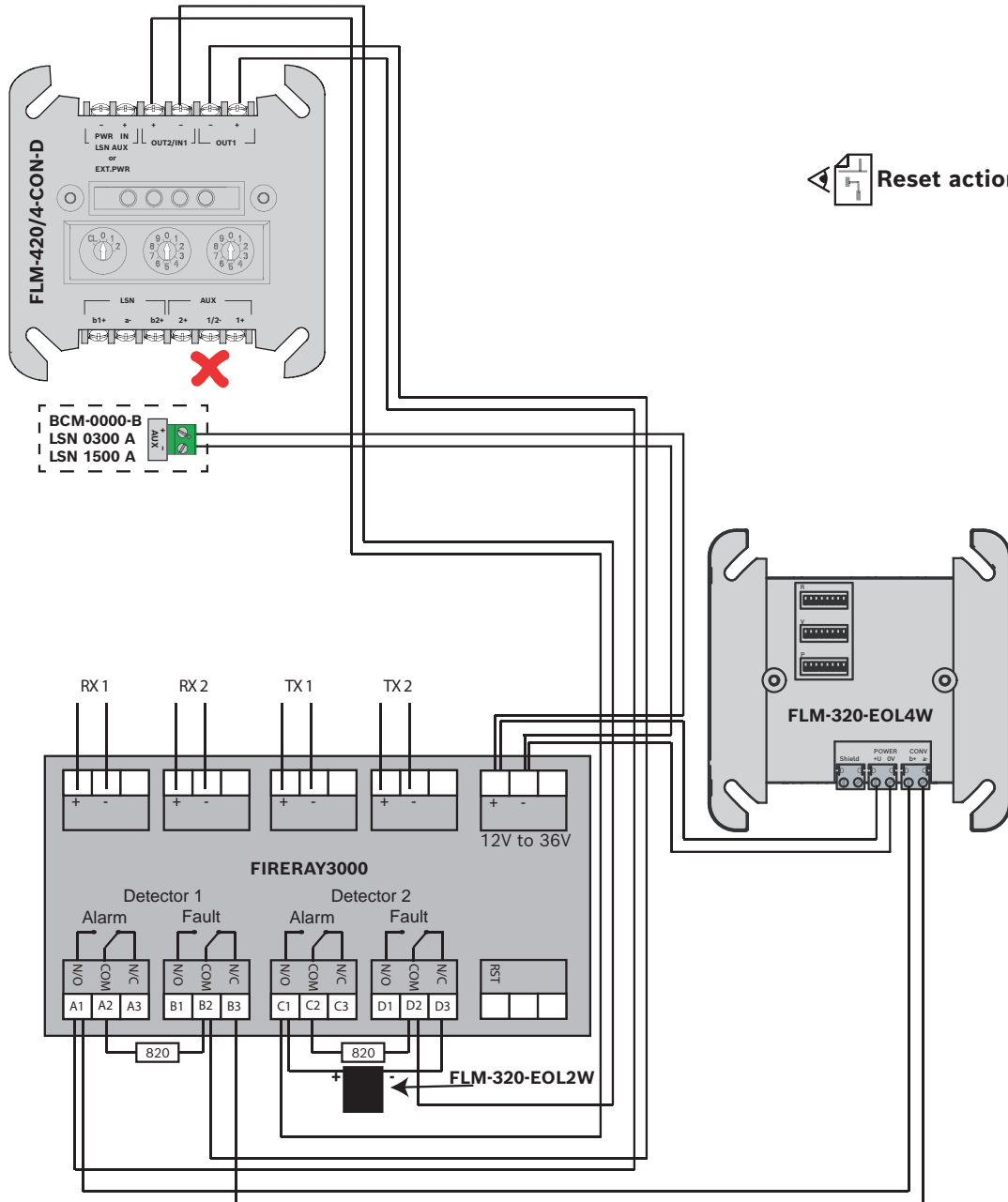




**FIRERAY3000**  
2 x **OUT1+2**



**ELS**



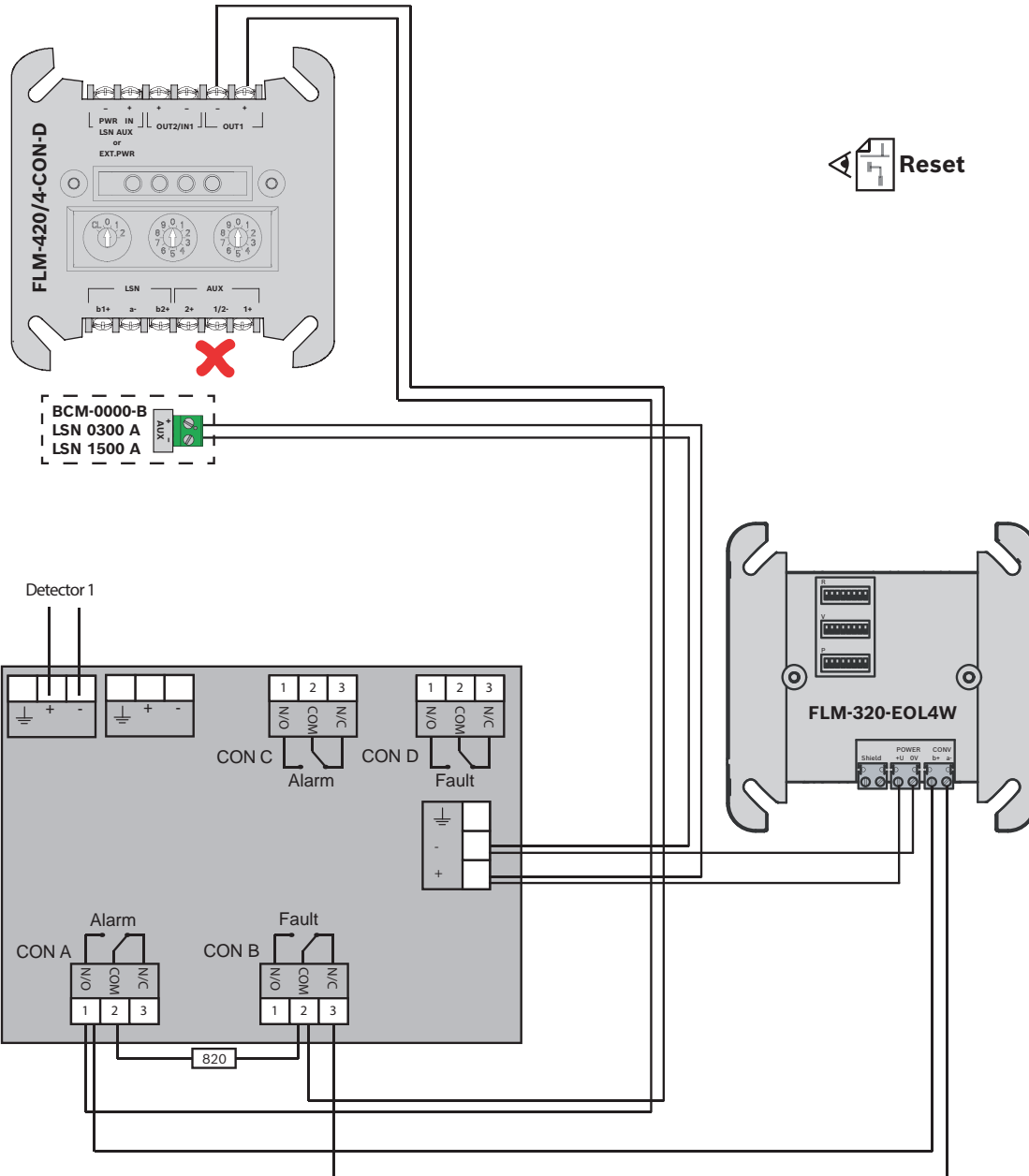


**FIRERAY5000**

1 x 



**ELS**



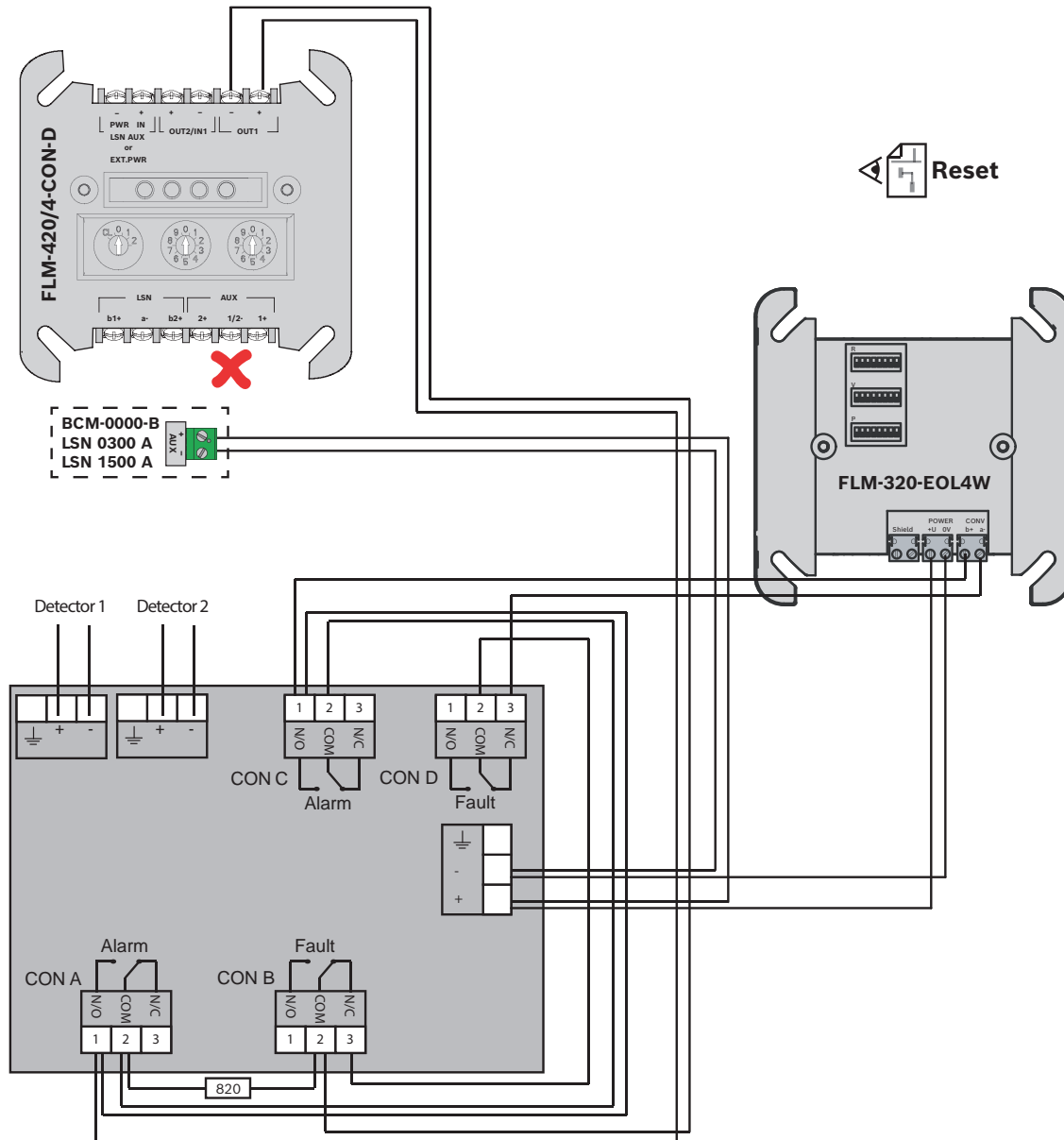


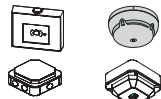
**FIRERAY5000**

**2 x OUT1**

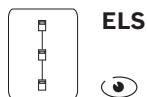


**ELS**



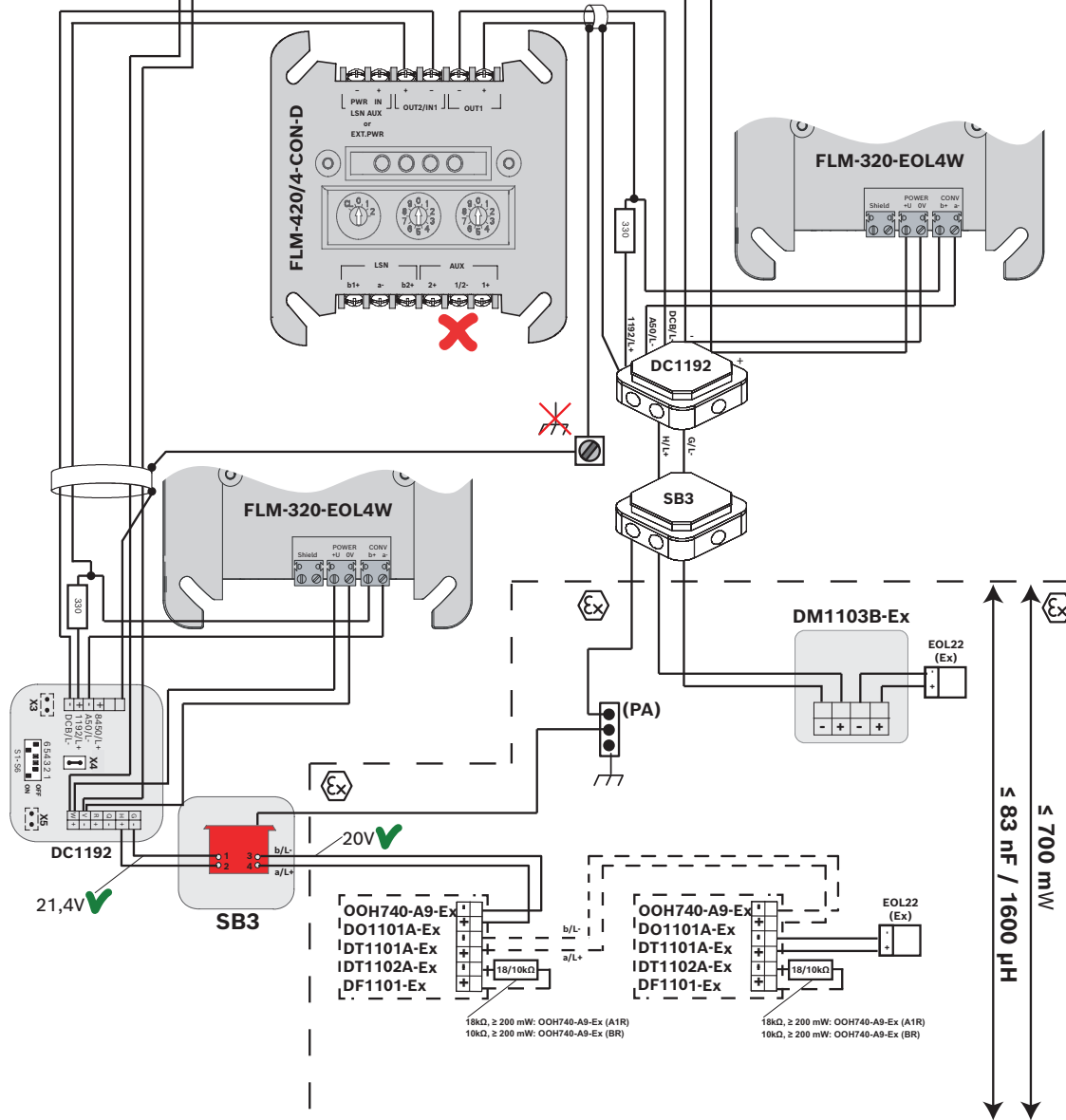


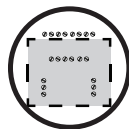
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 DO1101A-Ex  
 DT1101A-Ex/DT1102A-Ex  
 DF1101-Ex  
 DM1103B-Ex



BCM-0000-B  
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 LSN 1500 A

BCM-0000-B  
 LSN 0300 A  
 LSN 1500 A

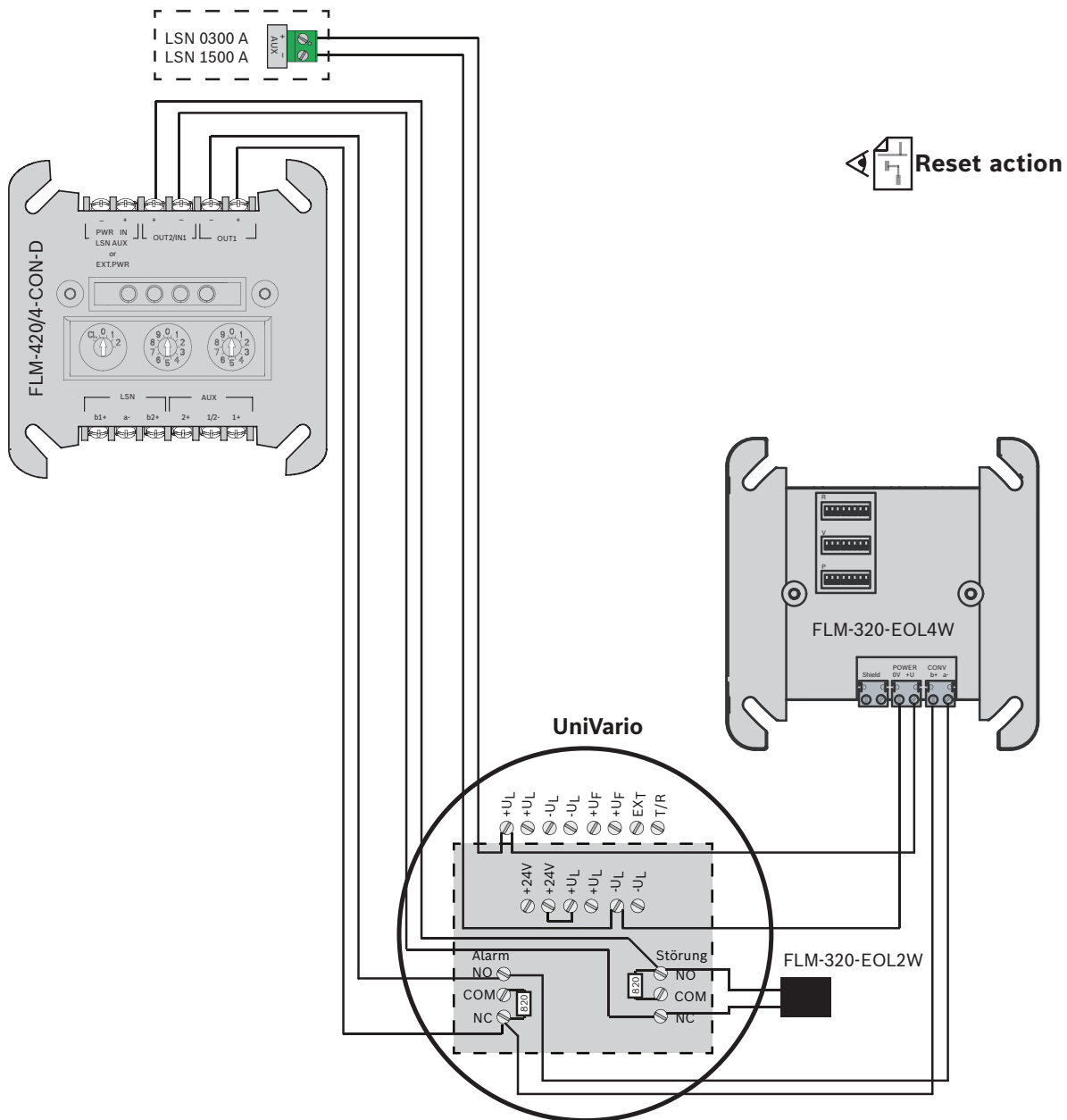




UniVario WMX5000  
UniVario FMX5000  
UniVario KMX5000



ELS





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