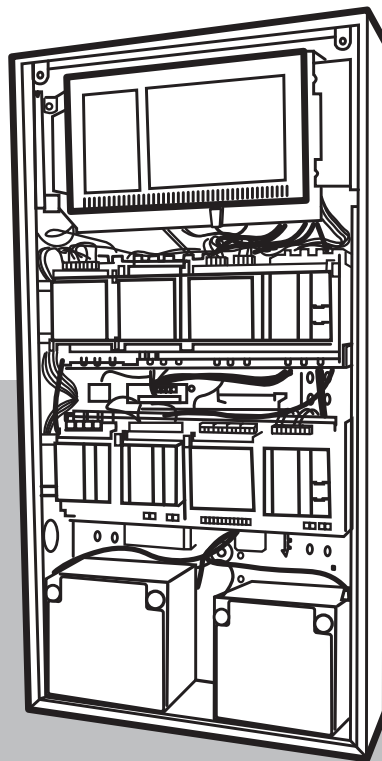


# AVENAR panel Serie





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# 1 Hinweise

## 1.1 Inhalt

Diese Ansaltehandbuch zeigt, wie Peripheriegeräte grundsätzlich an die Brandmelderzentrale angeschlossen werden. Nationale und lokale Vorschriften werden nicht berücksichtigt. Die Anwendung der nationalen und lokalen Vorschriften können weitere Anschaltungen ermöglichen.

**Hinweis!**

Die in diesem Dokument beschriebenen Anschaltungen gelten auch für AVENAR panel 2000, sofern die einzelnen Komponenten von Bosch Sicherheitssysteme GmbH zugelassene Erweiterungen von AVENAR panel 2000 sind.

**Hinweis!**

Die LSN 0300 A-Anschaltungen in diesem Dokument gelten auch für das LSN 1500 A-Modul. Beachten Sie für das LSN 1500 A-Modul, dass für Installationen in Deutschland, wo die Einhaltung der VdS 2540 gefordert wird, die AUX-Linie und die LSN-Linie in getrennten Kabeln verlegt werden müssen.

---

## 1.2 Produktinformation

- Wie Sie die einzelnen Komponenten der Brandmelderzentrale installieren, entnehmen Sie bitte dem jeweils beigelegten Installationshandbuch.
- Weitere Informationen (Bedienungsanleitungen, Handbuch Vernetzung, Systemhandbuch) finden Sie im Internet unter: [www.boschsecurity.com](http://www.boschsecurity.com)

## 1.3 Wichtige Hinweise

- Nur das von Bosch Sicherheitssysteme empfohlene Montagematerial verwenden.
- Umbau- und Lötarbeiten nur mit Erdungsarmband durchführen!
- Montage und Installation nur durch Fachpersonal!
- Anschlussbedingungen der regionalen Behörden/Institutionen beachten!



### Gefahr!

Lebensgefahr bei Berührung von stromführenden Teilen.  
Vor Installationsarbeiten die Stromzufuhr unterbrechen!

### Schirmbeidraht

Ein Schirmbeidraht ist notwendig für alle 2-Draht-Anschaltungen an CZM 0004 A und für das Anschließen der folgenden Produkte:

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

Die folgende Beispielanschaltung zeigt wie ein Schirmbeidraht aufgelegt wird.

### Hinweis!

Wenn ein Schirmbeidraht für das LSN-Kabel verbunden werden muss, verfahren Sie gemäß der LSN-Spezifikationen.

- Verbinden Sie den LSN-Schirmbeidraht zentralenseitig mit der vorgesehenen funktionalen Erde:

zwei Anschlüsse am Anfang und am Ende eines Rings

ein Anschluss am Anfang eines Sticks

- Den Schirmbeidraht an allen LSN-Peripheriegeräten durchschleifen, dabei die vorgesehenen Klemmen verwenden.

- Es ist keine weitere Verbindung des LSN-Schirmbeidrahts zuässig, weder zu anderen Erdanschlüssen, noch zu einem anderen elektrischen Potenzial.



## 1.4 Benutzerhinweise

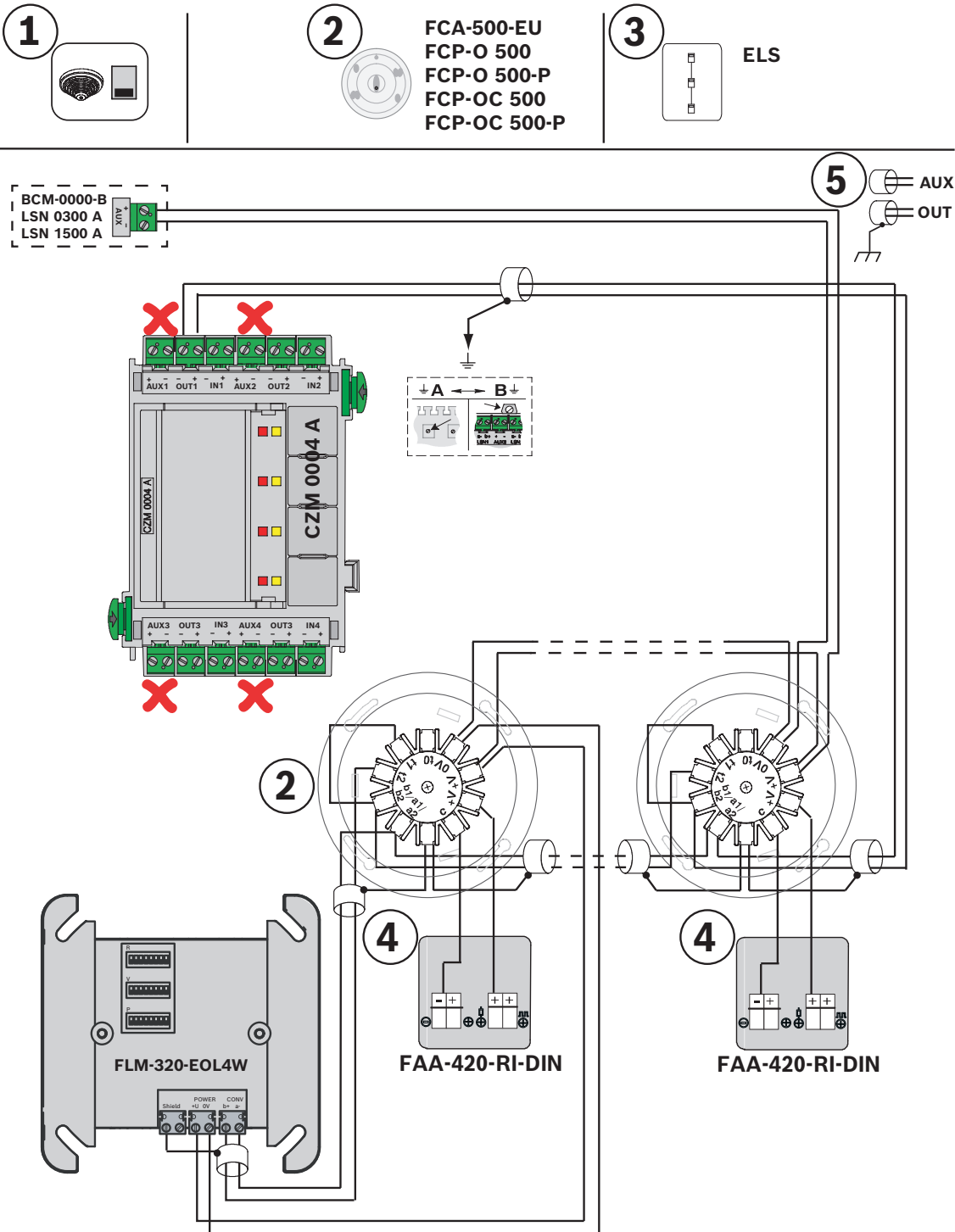
Das Ansaltehandbuch ist wie folgt strukturiert:

- Das Kapitel Anschaltung ist nach dem Gerät sortiert, an das ein Peripheriegerät angeschlossen wird. Eine Anschaltung zeigt die direkte Verbindung eines Geräts mit einem anderen (keine kaskadierenden Verbindungen).
- Eine Sammlung aller Anschaltungen, die mit zusätzlichen EOL-Modulen für die Überwachung von schleichender Unterbrechung versehen sind, finden Sie in Abschnitt EOL.

Verwenden Sie zum Suchen einer benötigten Anschaltung auch:













- das Inhaltsverzeichnis am Anfang des Kapitels Anschaltung und am Anfang der Abschnitte Funktionsmodule, Koppler und EOL.
- den Index (sprachneutral),
- und die Volltextsuche.

Siehe die folgende Beispielanschaltung:







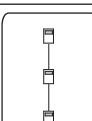
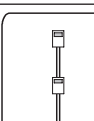
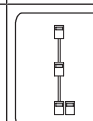
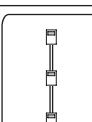



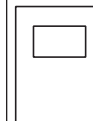


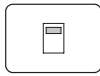
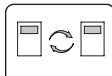

1	Kapitelsymbole ( <i>Kapitelsymbole, Seite 7</i> )
2	Anschaltbares Peripheriegerät
3	Anschaltessymbole ( <i>Anschaltessymbole, Seite 7</i> )
4	Optionale Komponenten
5	Stromversorgung und Anschaltung ( <i>Stromversorgung und Verkabelung, Seite 8</i> )

### 1.4.1 Kapitelsymbole



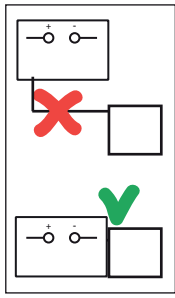
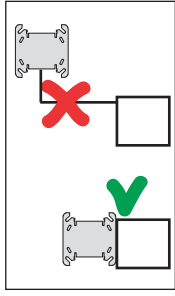

	Automatische Melder		Bedien- und Anzeigetableaus		Drucker
	Stromversorgung		Funktionsmodule		Feuerwehreinrichtungen
	Koppler		Löschanlagen		Manuelle Melder
	Signalgeber		Türsteuerungen		Übertragungseinrichtungen

### 1.4.2 Anschaltesymbole

	Verpflichtende Verkabelung		Optionale Verkabelung		Nicht zulässig
	Redundanz		Ringverdrahtung		Ringverdrahtung mit redundantem Element
	Stichverdrahtung		Redundante Stichverdrahtung		Stichverdrahtung mit redundantem Element
	Redundante Stichverdrahtung mit redundantem Element	ELS	Diese Verdrahtung entspricht VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS steht für Erweiterte Leitungsüberwachung, d. h. Überwachung auf schleichenden Kurzschluss und schleichende Unterbrechung. Diese Anschaltung bietet ELS. Ein schleichender Kurzschluss wird von den folgenden Modulen erkannt: LSN 0300 A, LSN 1500 A und BCM-0000-B bei Verwendung von FPP-5000-TI13.		Diese Ringverdrahtung entspricht VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. Sie bietet ELS. Weitere EOL-Module sind nicht erforderlich.
	Synchronisierung		Explosionsgefährdeter Bereich		Zentrale

	Stand-Alone-Zentrale		Stand-Alone-Zentrale mit Redundanz		Für Meldersockel: Die Verdrahtung ist nur für den Meldersockel gültig, in dem der Melder installiert ist.
EN 54-2, DIBT etc.	Wenn diese Norm gefordert ist, verwenden Sie diese Anschaltung.				

### 1.4.3 Stromversorgung und Verkabelung

	Kabel, zweiadrig ist erforderlich.
	Geschirmtes Kabel, zweiadrig ist erforderlich.
	Das Element muss bündig mit dem Gehäuse des Produkts montiert werden, das die Stromversorgung enthält.
	Bündige Montage des Kopplers ist erforderlich.
 <b>Reset action</b>	Siehe Anschaltung in diesem Handbuch. Für automatisches Rücksetzen des Geräts müssen Sie diese Reset-Schaltung implementieren.

### 1.5 Widerstandswerte

Die folgende Tabelle gibt Ihnen einen Überblick über die Farbcodierung von Widerständen. Die mitgelieferten Metallschichtwiderstände haben fünf farbige Streifen, anhand derer Sie den Widerstandswert ablesen können.

Farbe	1. Streifen	2. Streifen	3. Streifen	4. Streifen (Multiplikator)	5. Streifen (Grenzabweichung)
Silber				10 <sup>-2</sup>	±10%
Gold				10 <sup>-1</sup>	±5%
Schwarz		0	0	10 <sup>0</sup>	



Farbe	1. Streifen	2. Streifen	3. Streifen	4. Streifen (Multiplikator)	5. Streifen (Grenzabweichung)
Braun	1	1	1	10 <sup>1</sup>	±1%
Rot	2	2	2	10 <sup>2</sup>	±2%
Orange	3	3	3	10 <sup>3</sup>	±0.05%
Gelb	4	4	4	10 <sup>4</sup>	±0.02%
Grün	5	5	5	10 <sup>5</sup>	±0.5%
Blau	6	6	6	10 <sup>6</sup>	±0.25%
Violett	7	7	7	10 <sup>7</sup>	±0.1%
Grau	8	8	8	10 <sup>8</sup>	±0.01%
Weiß	9	9	9	10 <sup>9</sup>	

Gemäß DIN EN 60062:2017

*Orange – Weiß – Schwarz – Braun – Braun*: 3,9 kOhm Widerstand mit 1 % Toleranz,

*Rot – Rot – Schwarz – Braun – Braun*: 2,2 kOhm Widerstand mit 1 % Toleranz.

## 2 Wiring



*FPP-5000 Power supply, Seite 11*

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

*DIBT, Seite 15*

*Functional Modules, Seite 42*

*BCM-000-B, Seite 43*

*CZM 0004 A, Seite 45*

*ENO 0000 A/B, Seite 61*

*LSN 0300 A, Seite 68*

*NZM 0002 A, Seite 106*

*RMH 0002 A, Seite 119*

*IOS 0020 A, Seite 120*

*FPE-5000-UGM, Seite 122*

*Interface Modules, Seite 124*

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

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

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

*FLM-420-RHV, Seite 172*

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

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

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

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

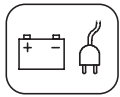
*EOL, Seite 188*

*CZM 0004 A, Seite 189*

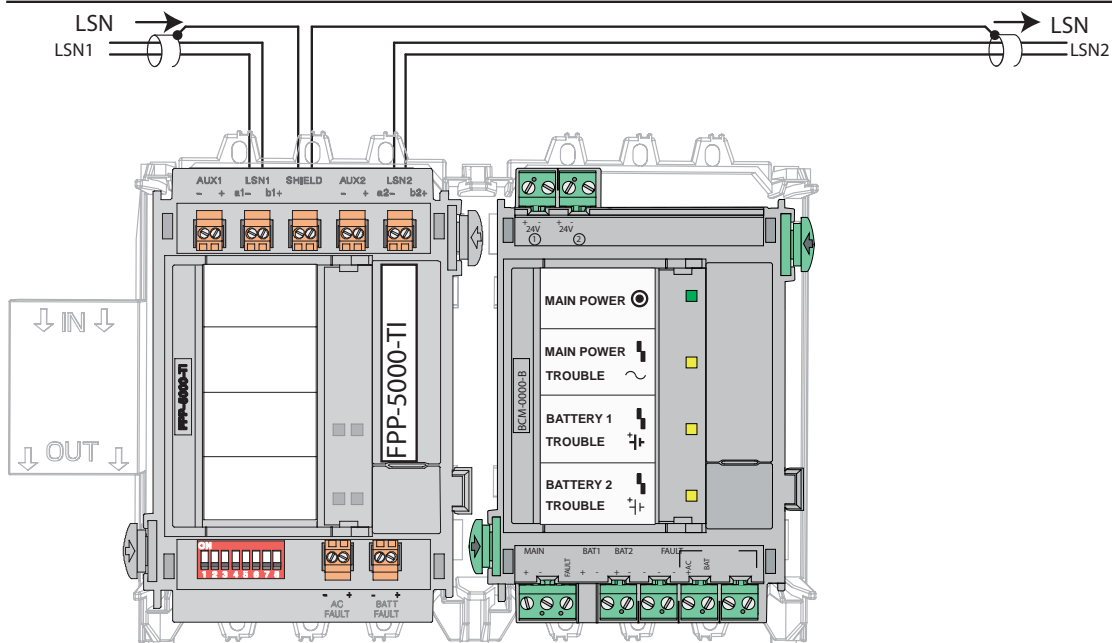
*LSN 0300 A, Seite 201*

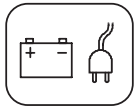
*FLM-420/4-CON-S/D, Seite 246*

## 2.1 FPP-5000 Power supply



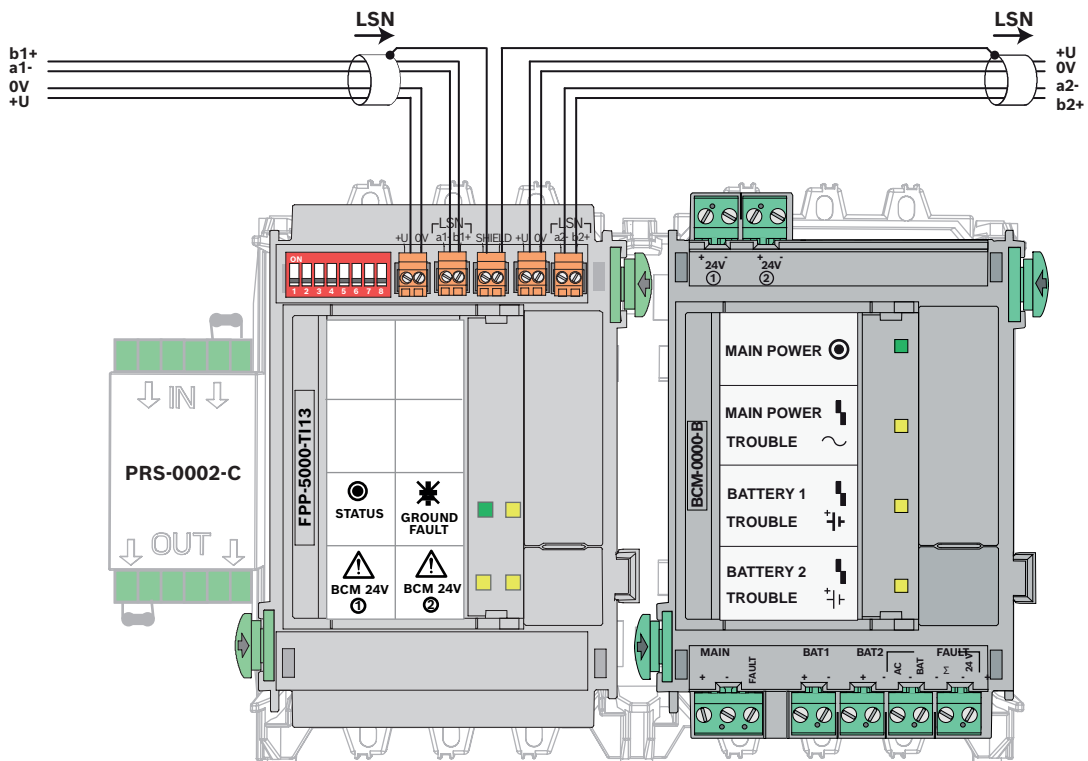
FPP-5000-TI



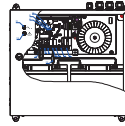
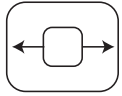


FPP-5000-TI13

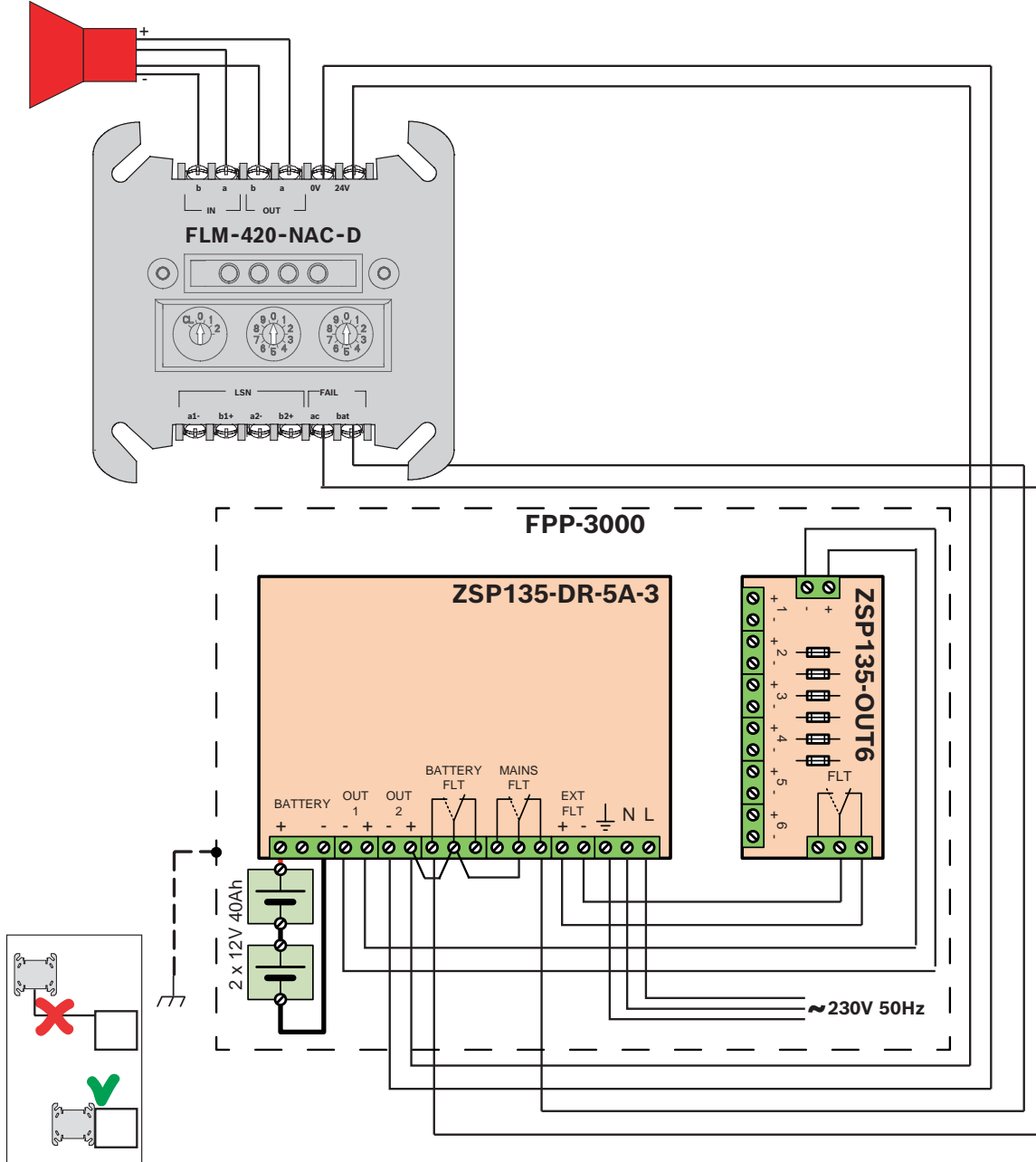
ELS





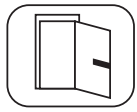


ZSP135-DR-5A-3  
ZSP135-OUT6  
FPP-3000



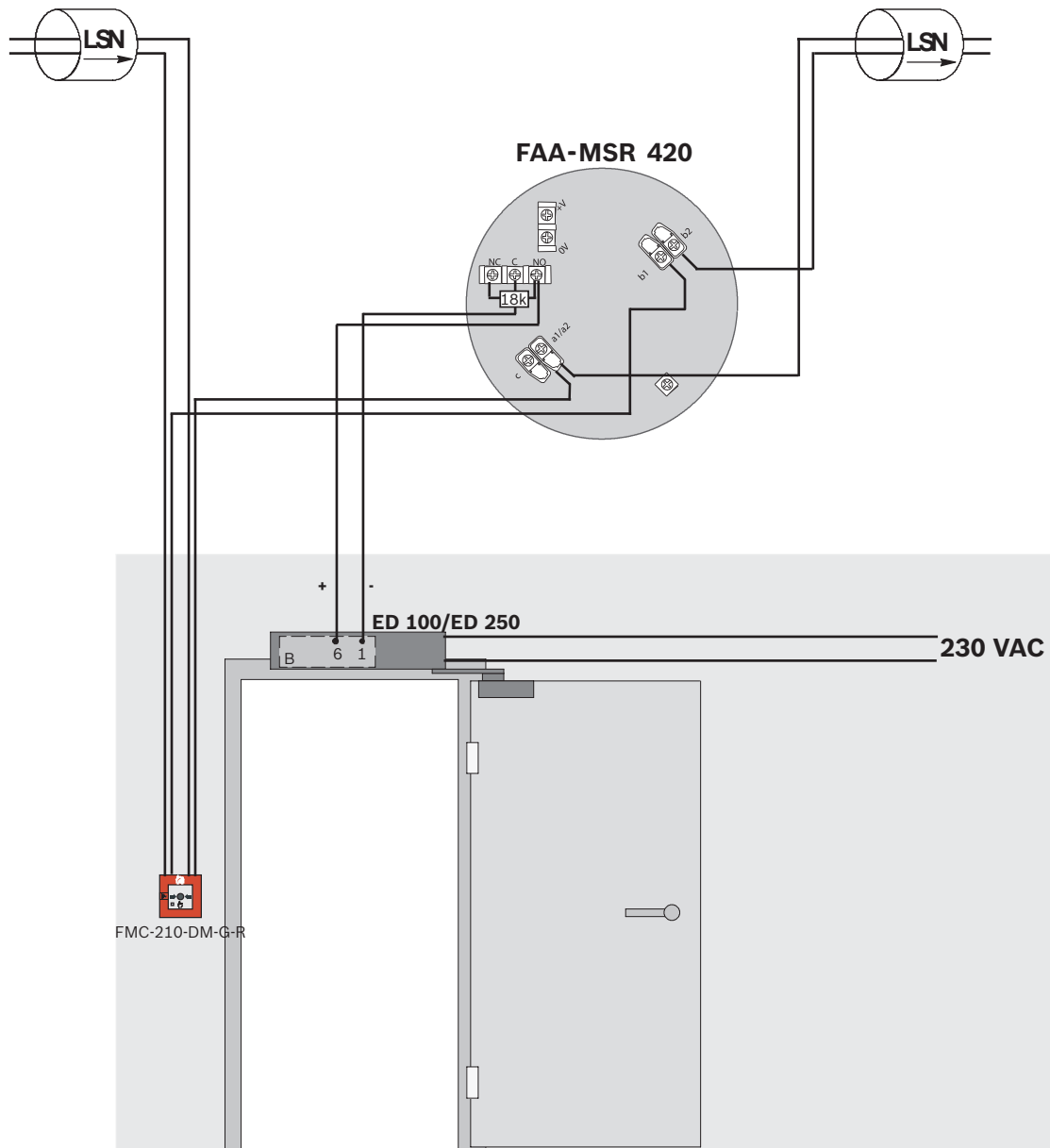
### 2.3

### DIBT



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

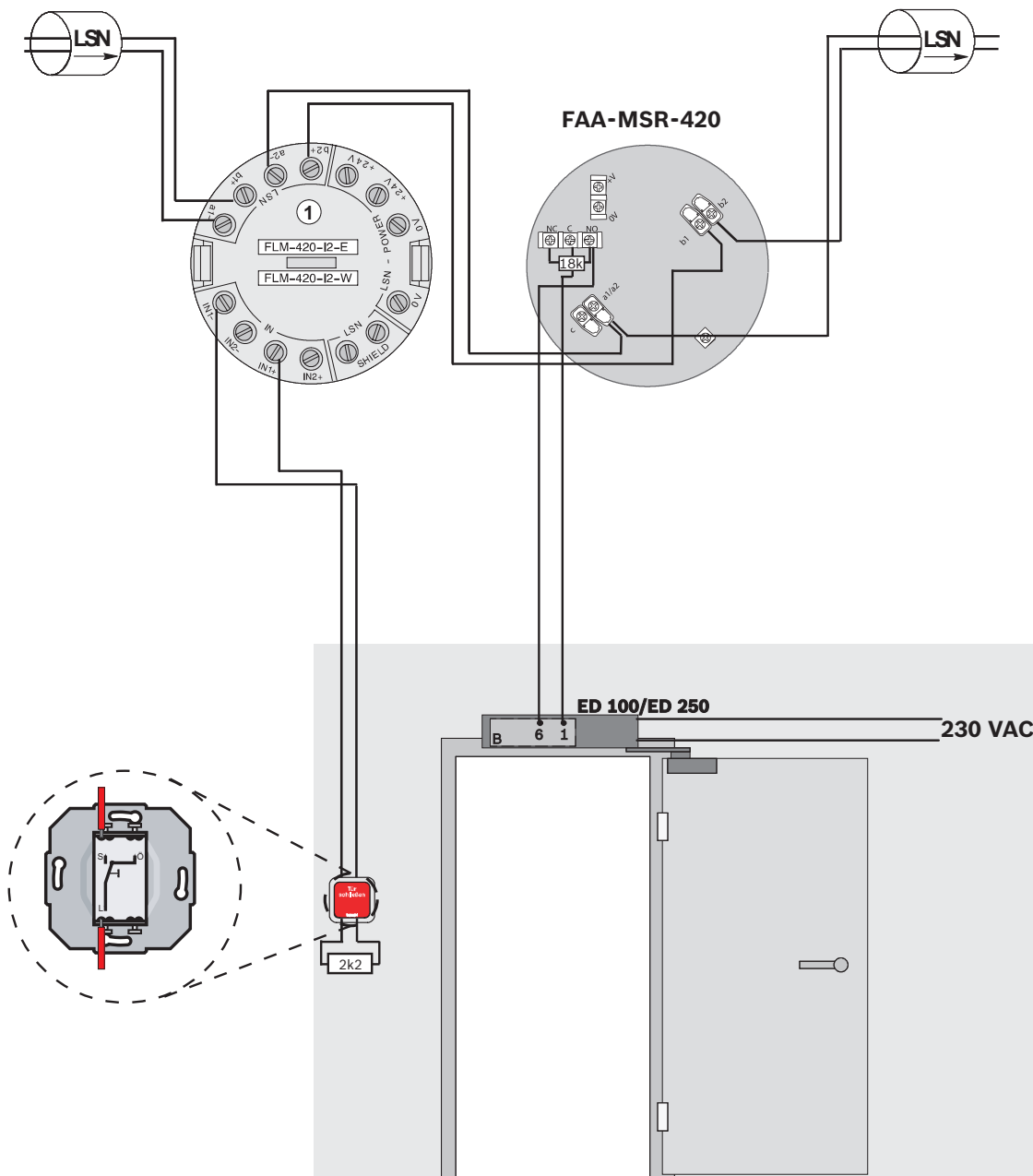
**DIBT**



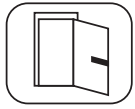


**ED 100  
ED 250  
(+Upgrade Card B)**

**DIBT**

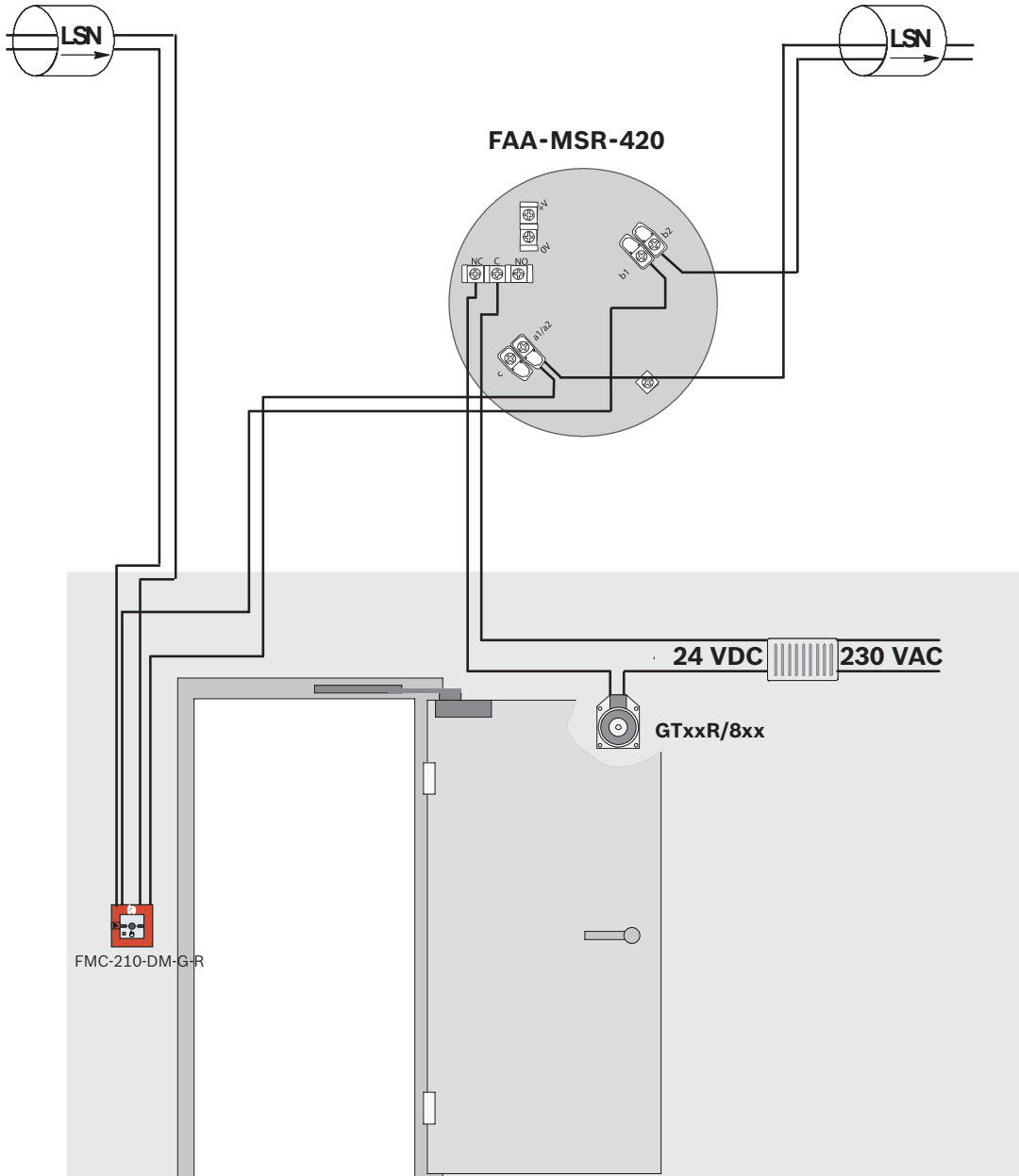


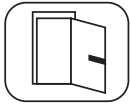




GT xx R  
8 xx

DIBT

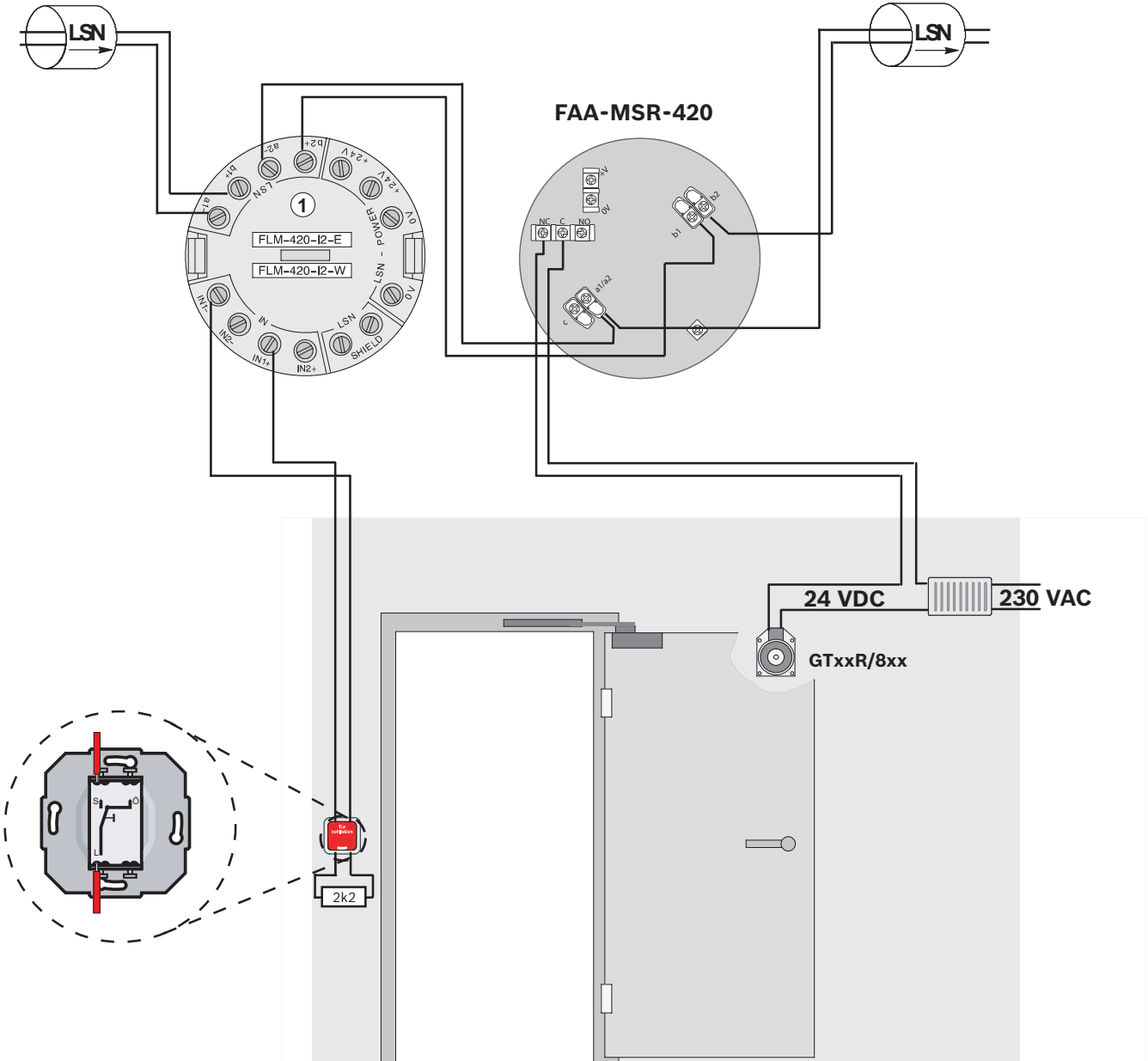


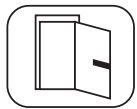


GT xx R

8 xx

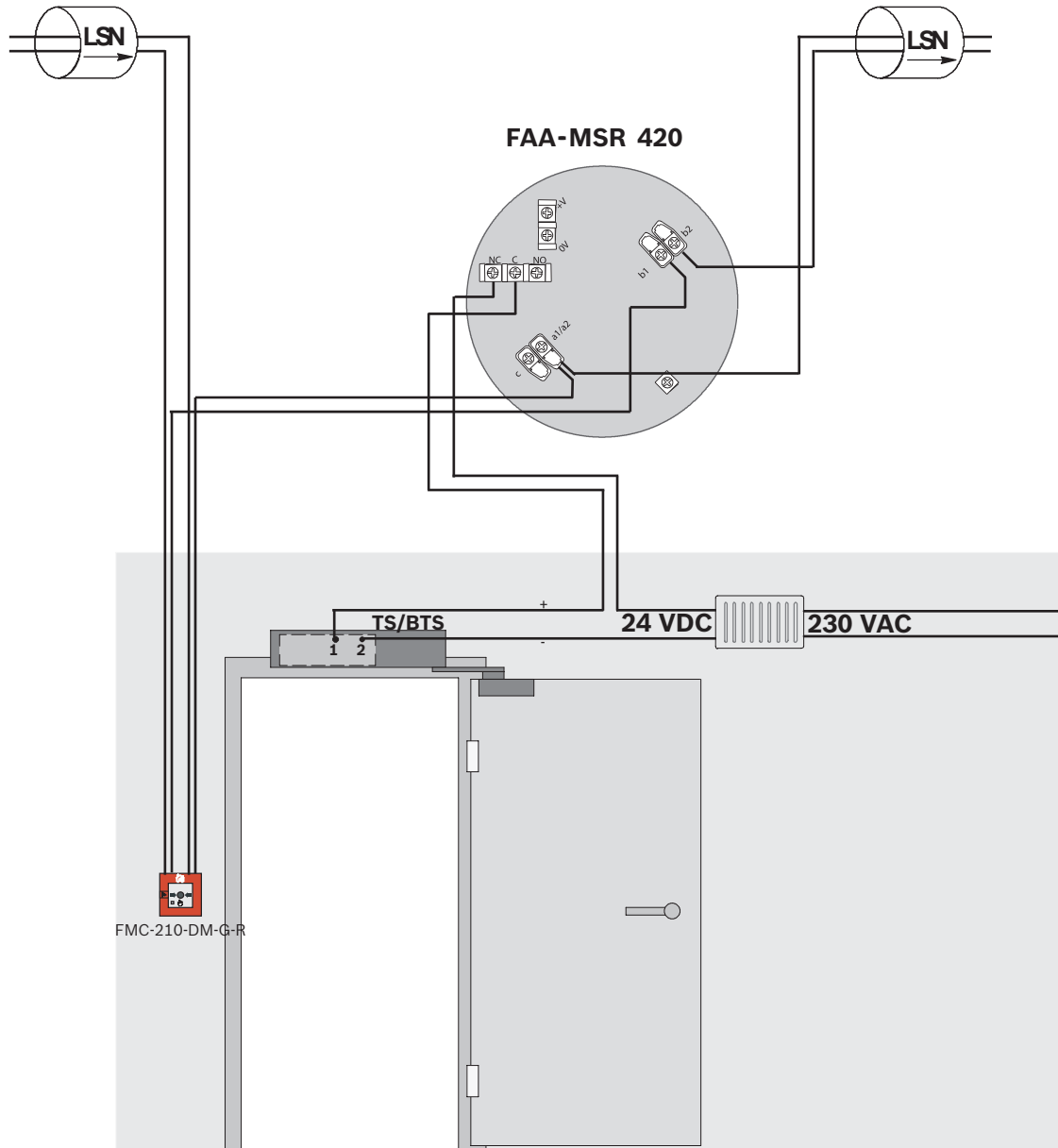
DIBT

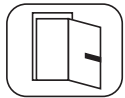




TS 73 EMF  
 TS 93 EMF  
 TS 93 GSR  
 BTS 80 EMB  
 BTS 80 FLB

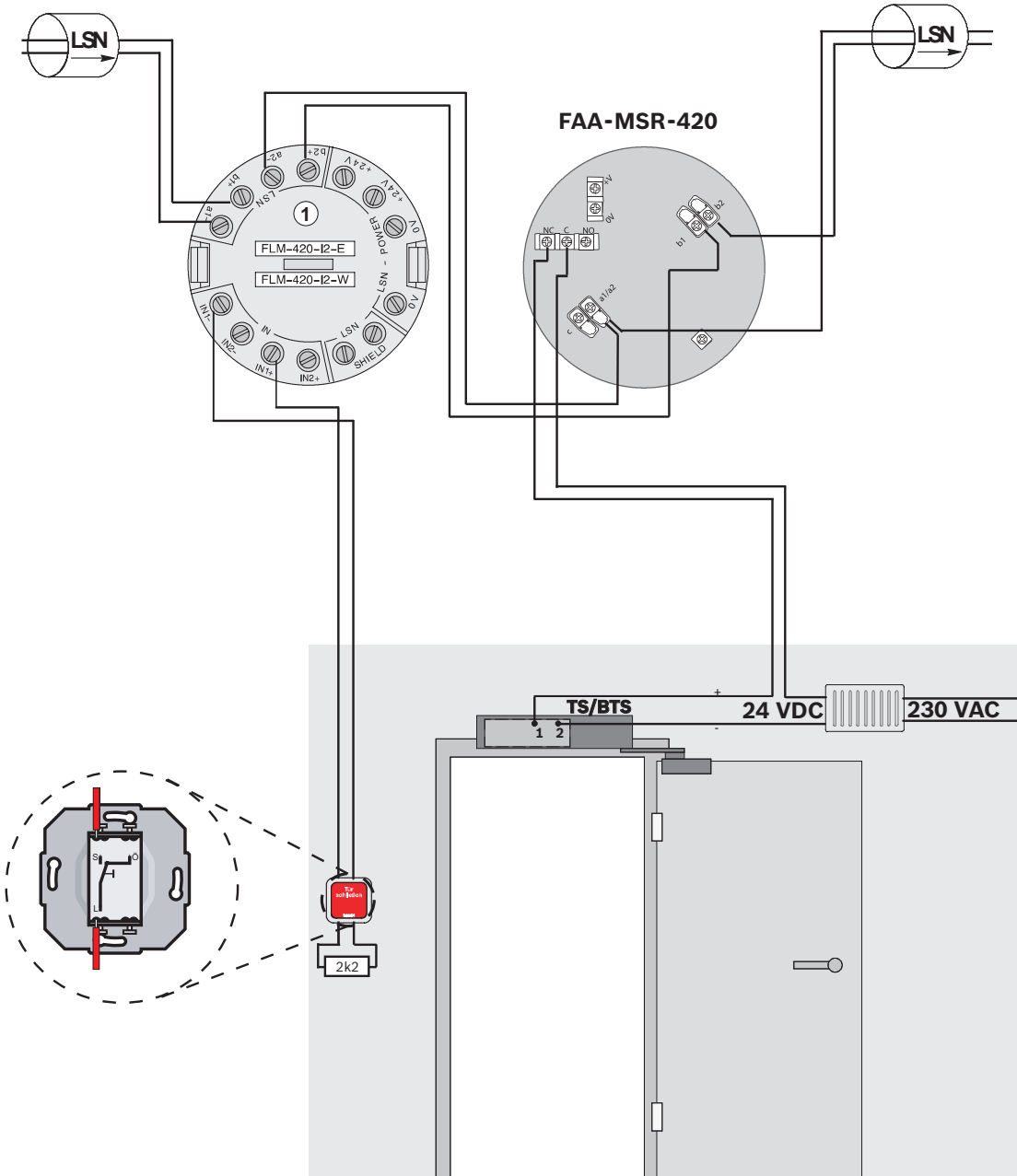
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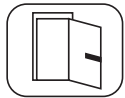




TS 73 EMF  
 TS 93 EMF  
 TS 93 GSR  
 BTS 80 EMB  
 BTS 80 FLB

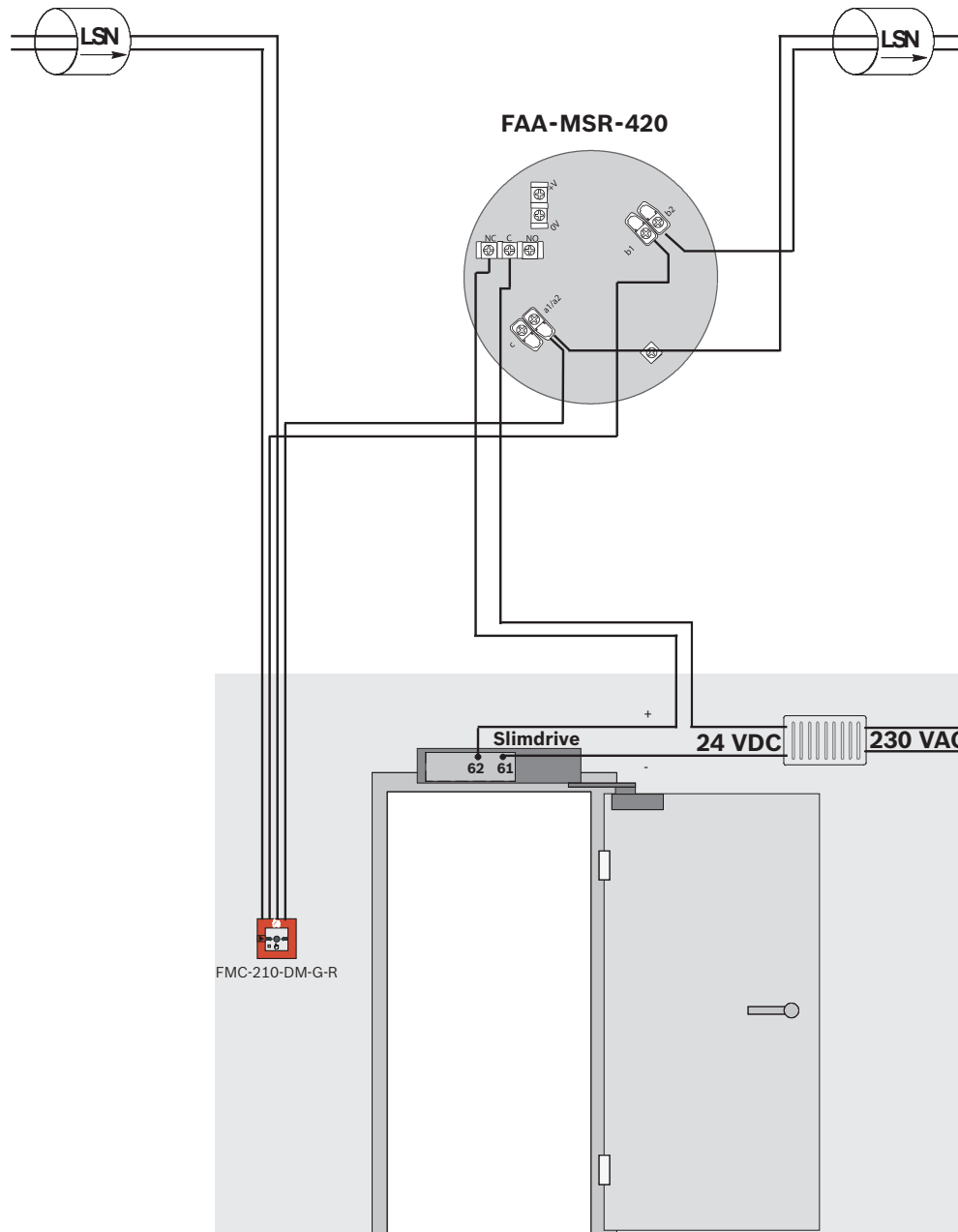
DIBT





Slimdrive EMD-F/EMD F-IS

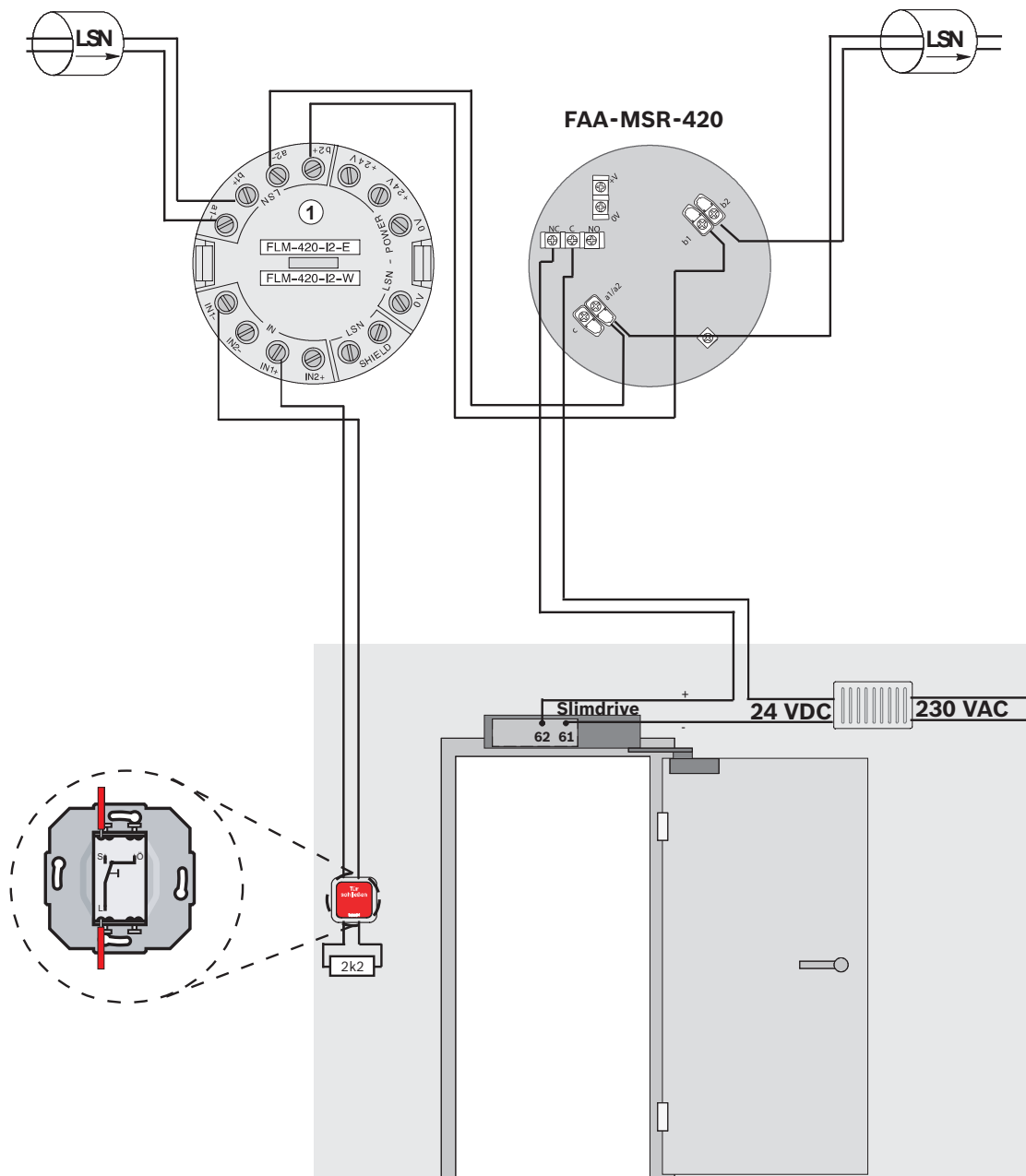
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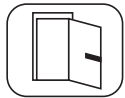




Slimdrive EMD-F/EMD F-IS

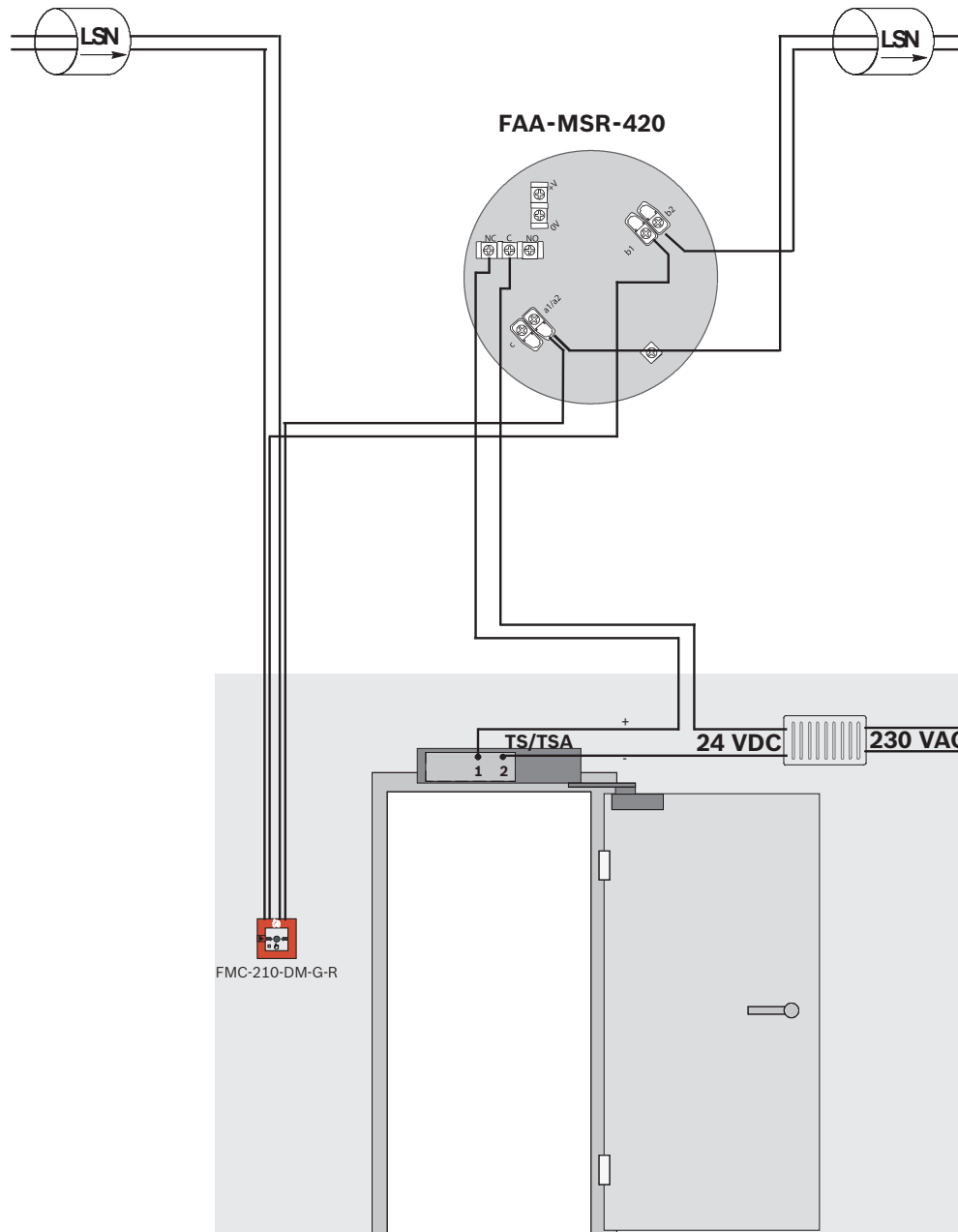
DIBT

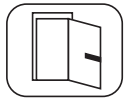




TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

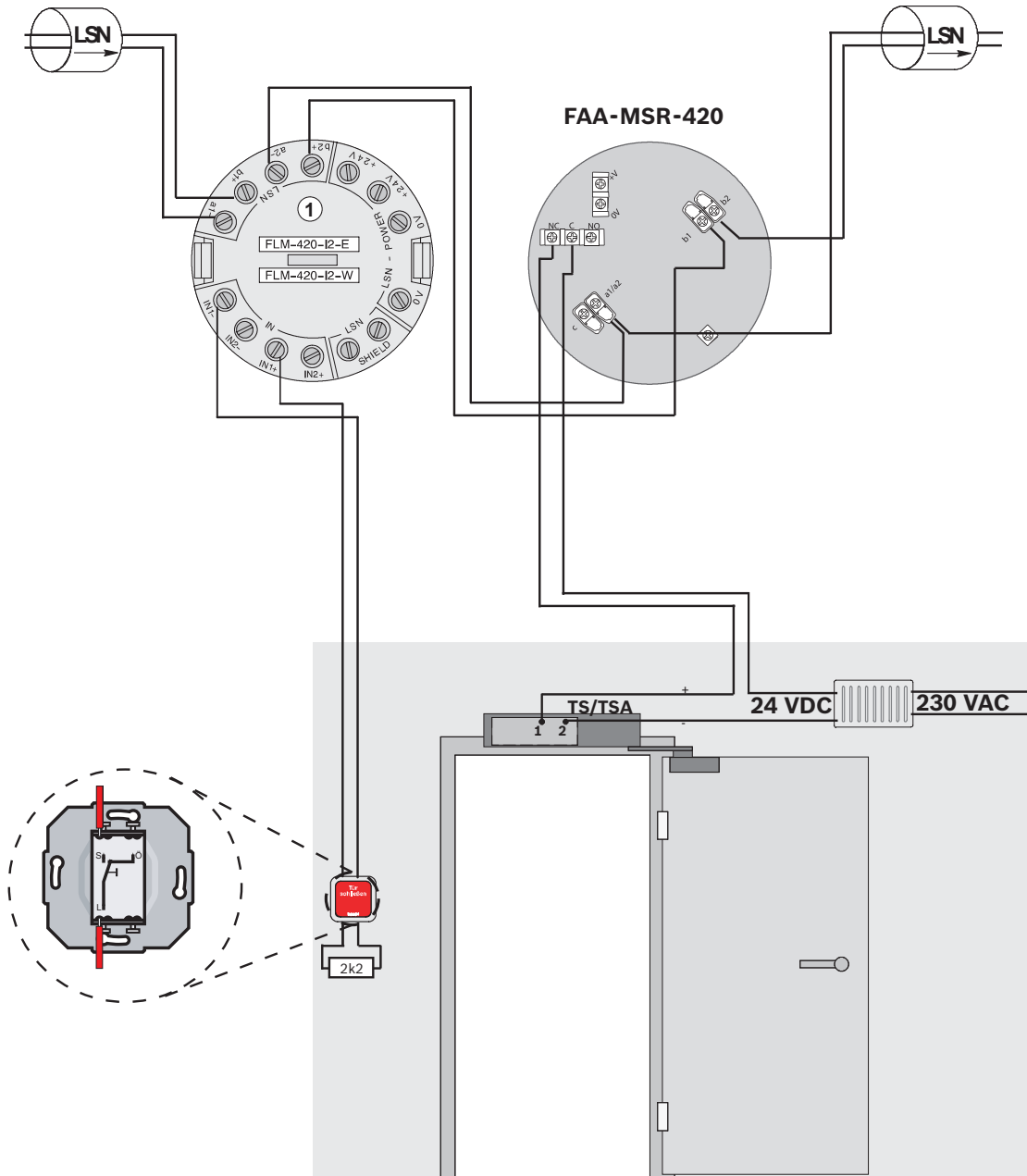
DIBT



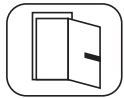


TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

DIBT

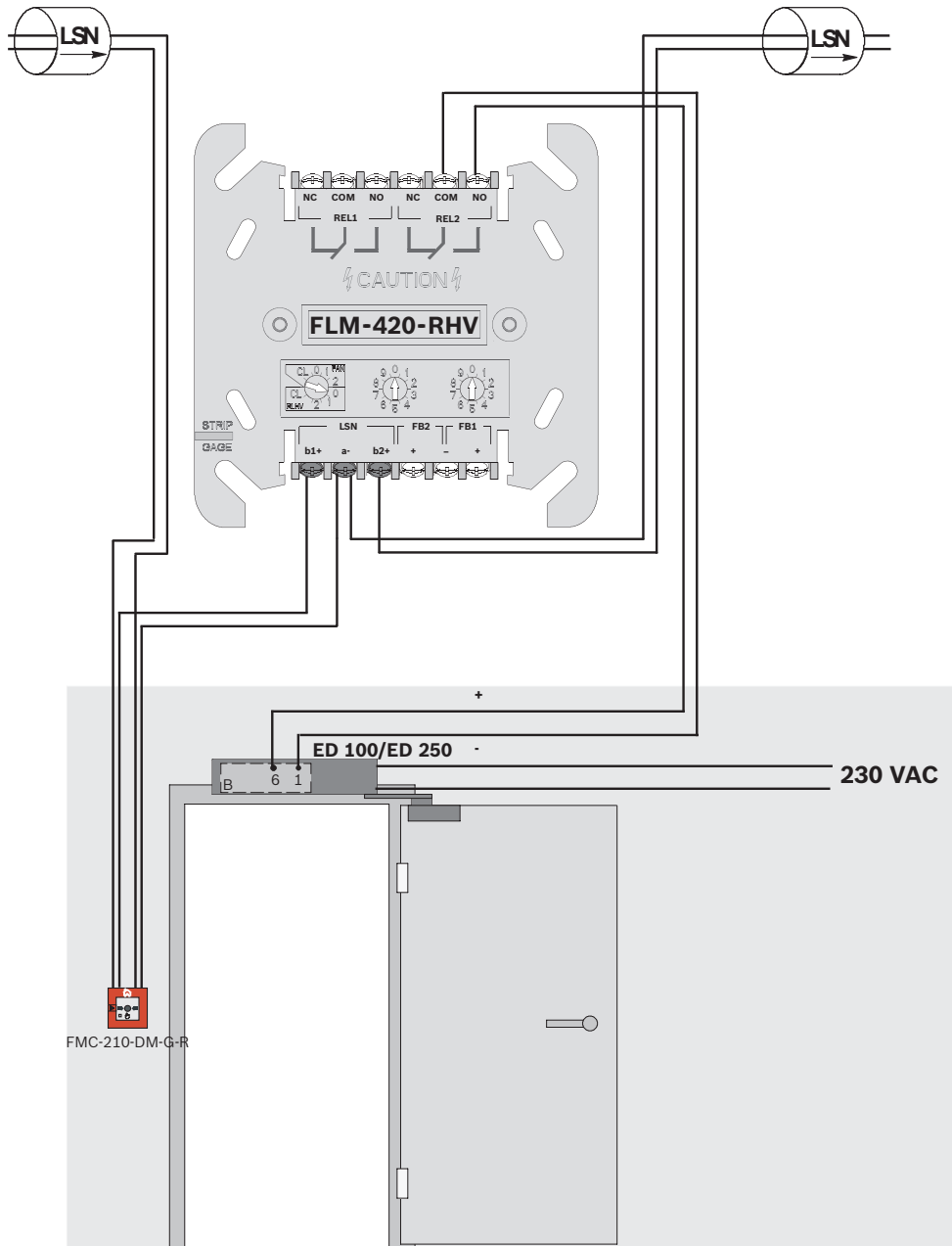




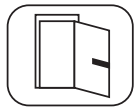


**ED 100  
ED 250  
(+Upgrade Card B**

**DIBT**



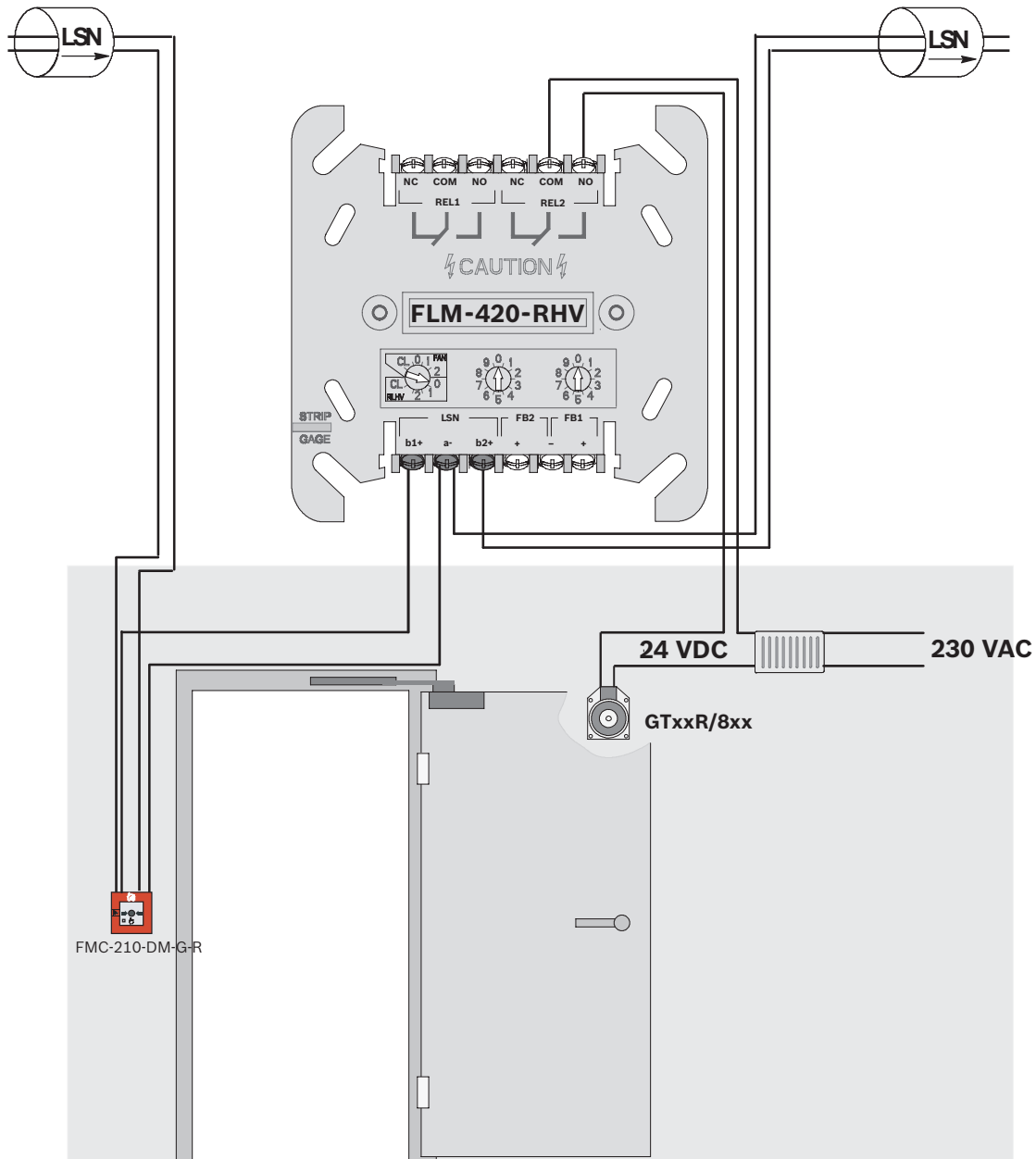


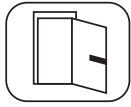


GT xx R

8 xx

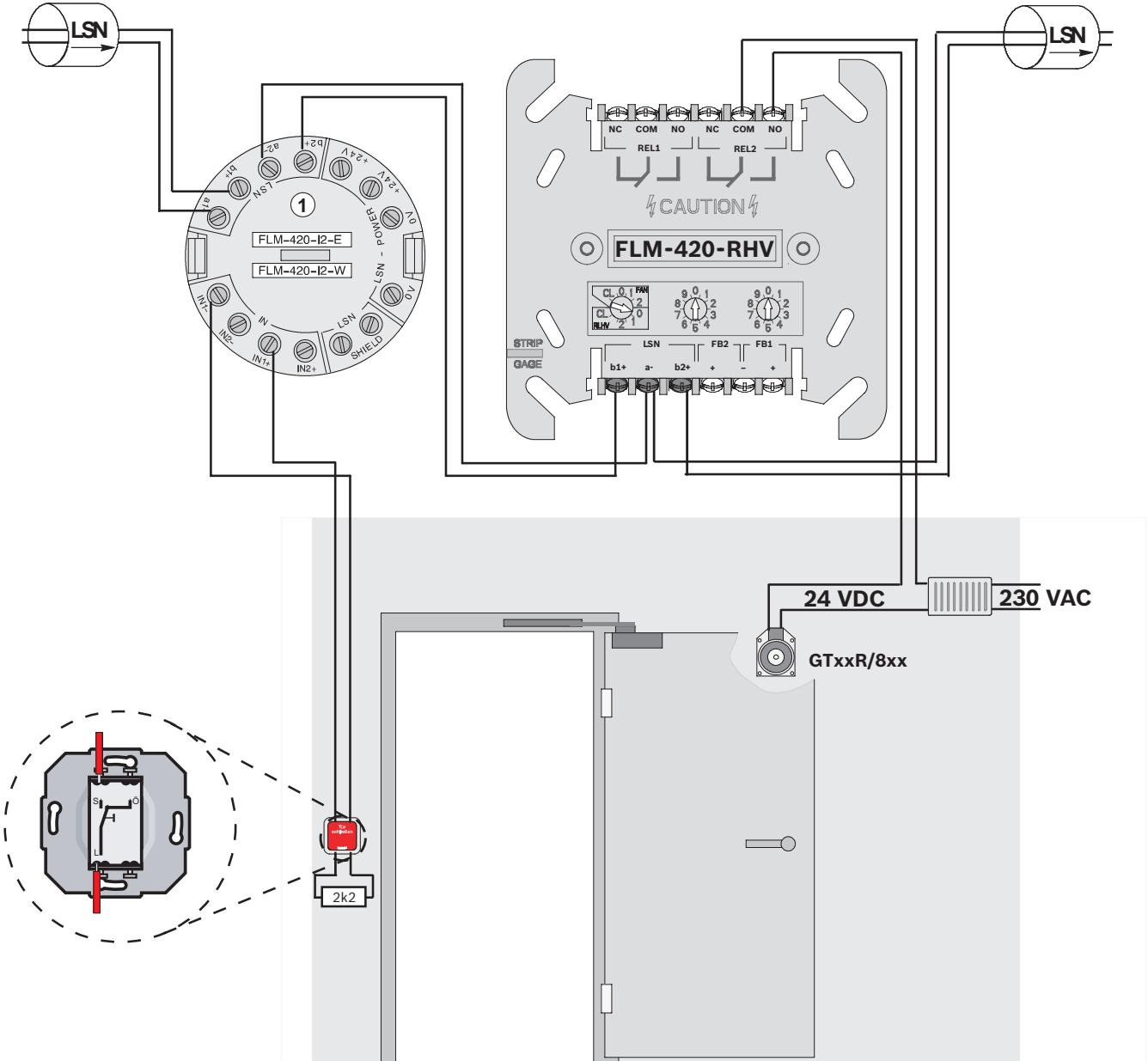
DIBT

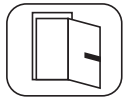




GT xx R  
8 xx

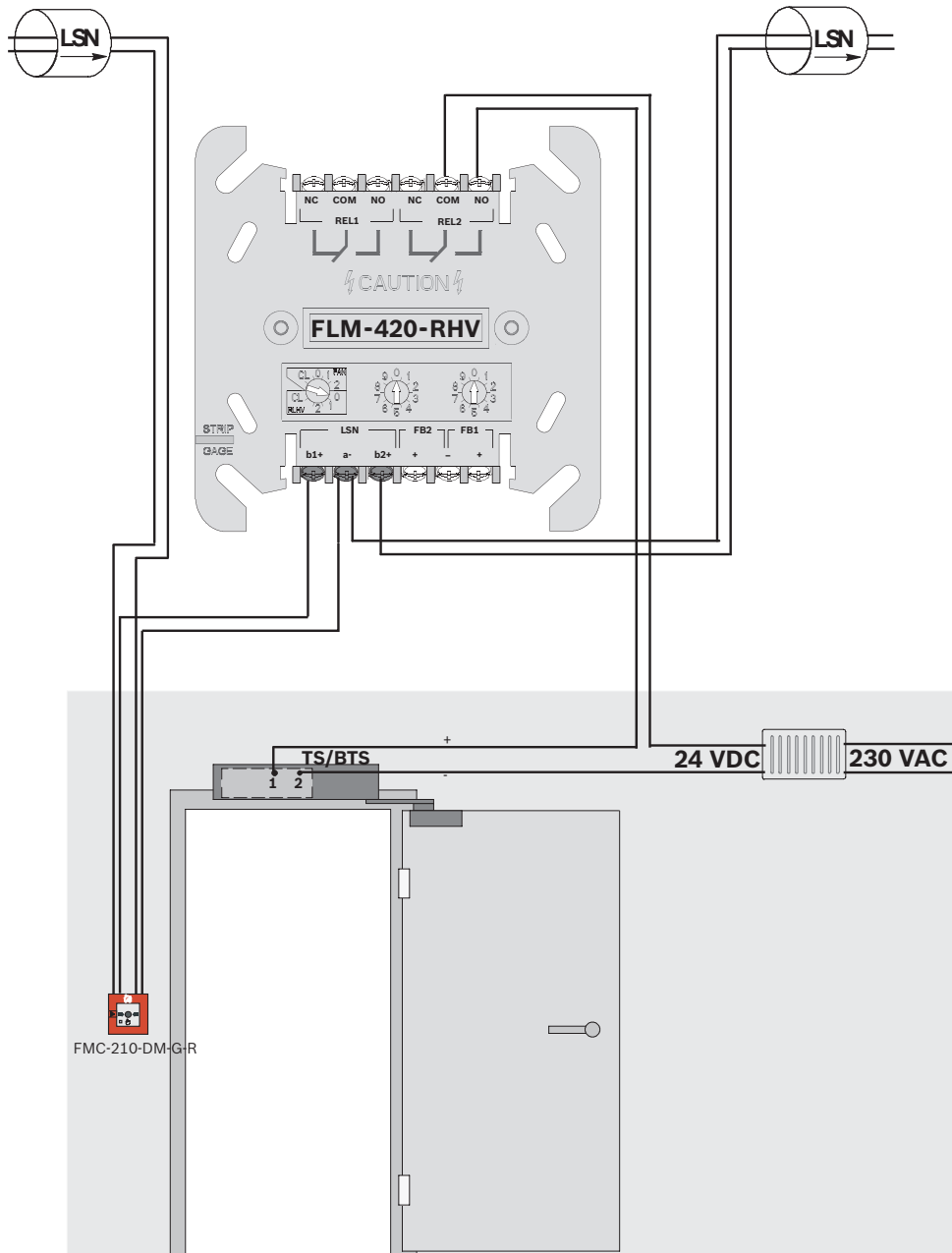
DIBT





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

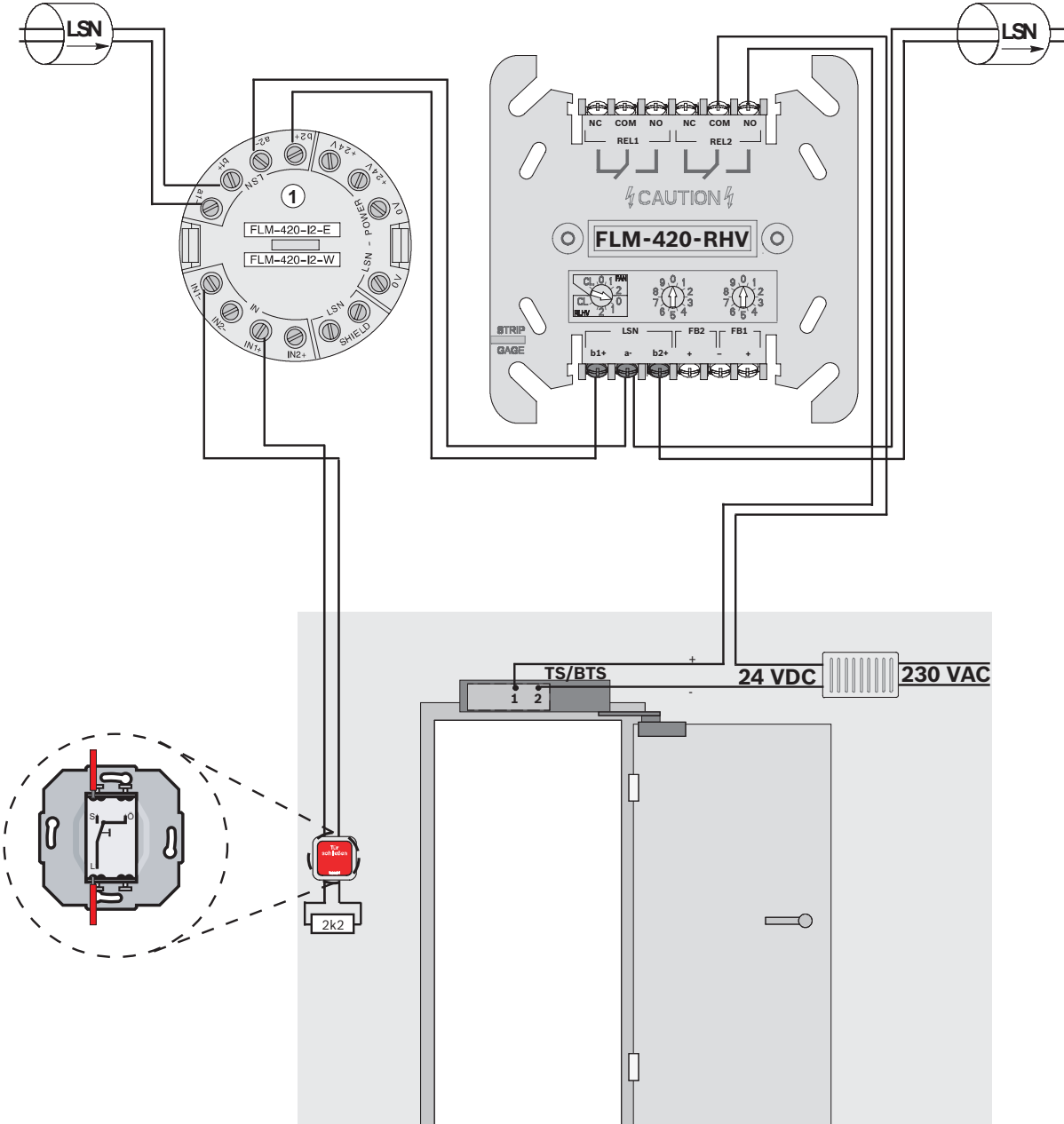
DIBT

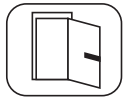




TS 73 EMF  
 TS 93 EMF  
 TS 93 GSR  
 BTS 80 EMB  
 BTS 80 FLB

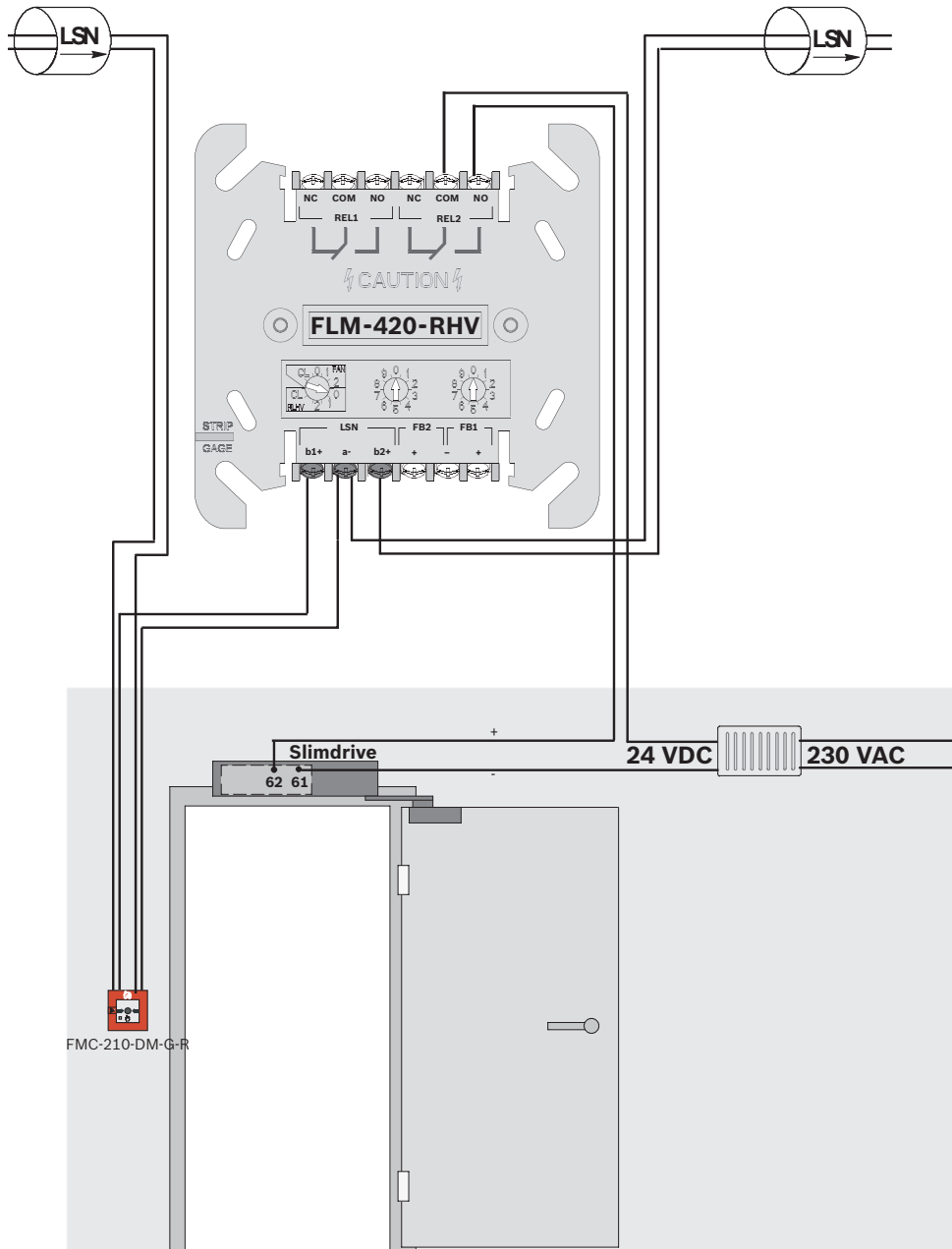
DIBT





Slimdrive EMD-F/EMD F-IS

DIBT

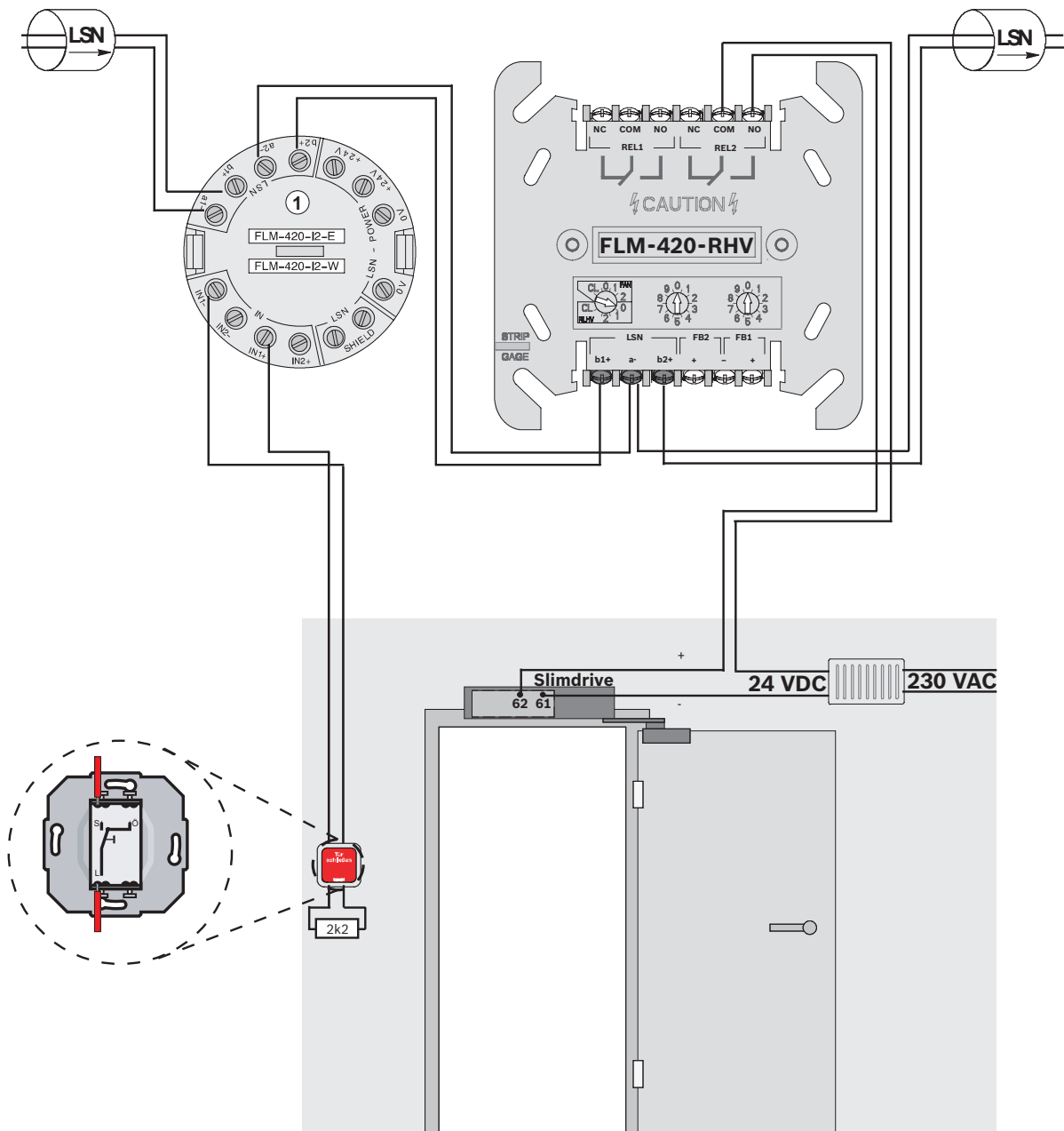


FMC-210-DM-G-R

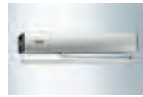
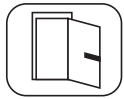


Slimdrive EMD-F/EMD F-IS

DIBT

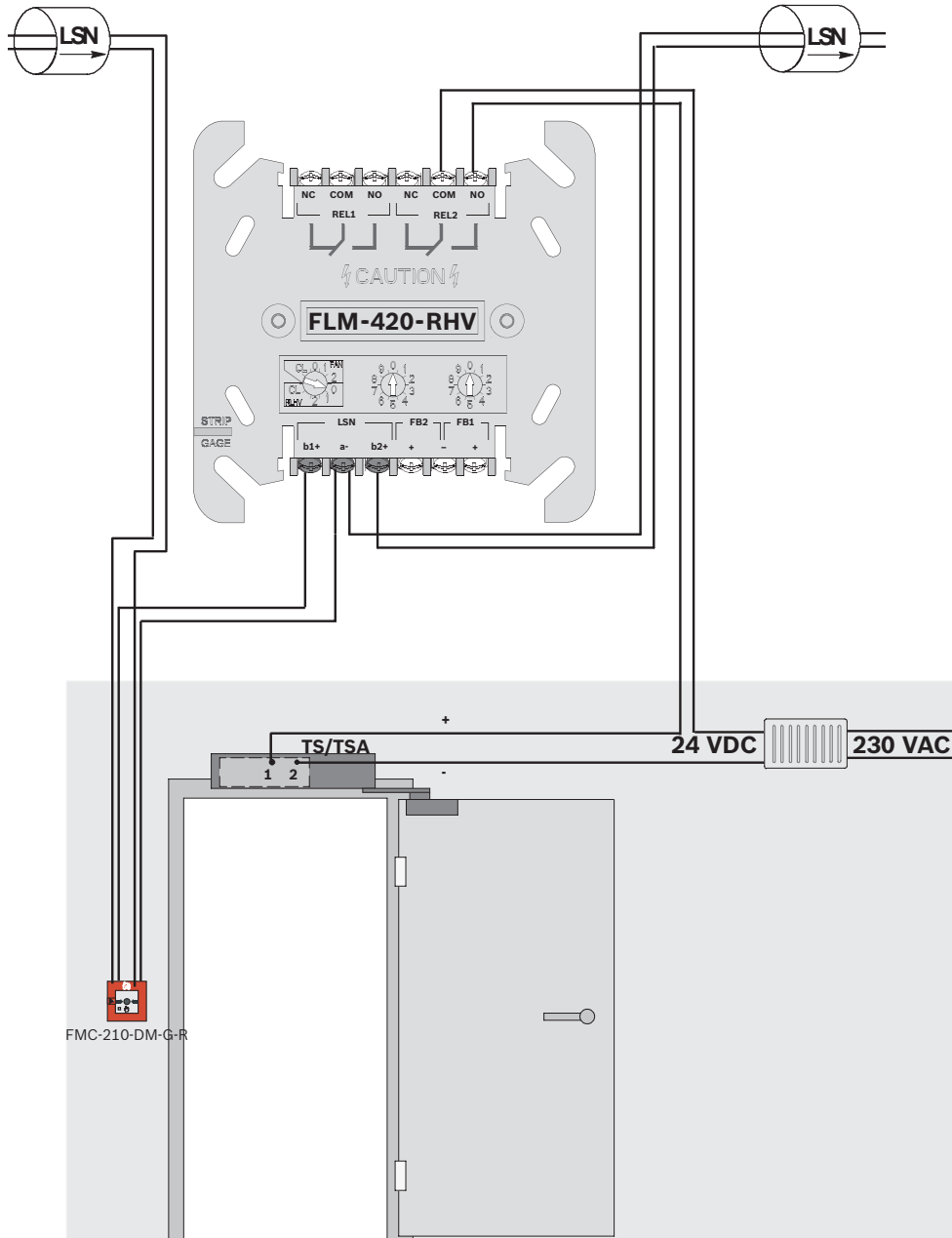




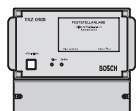


TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

DIBT

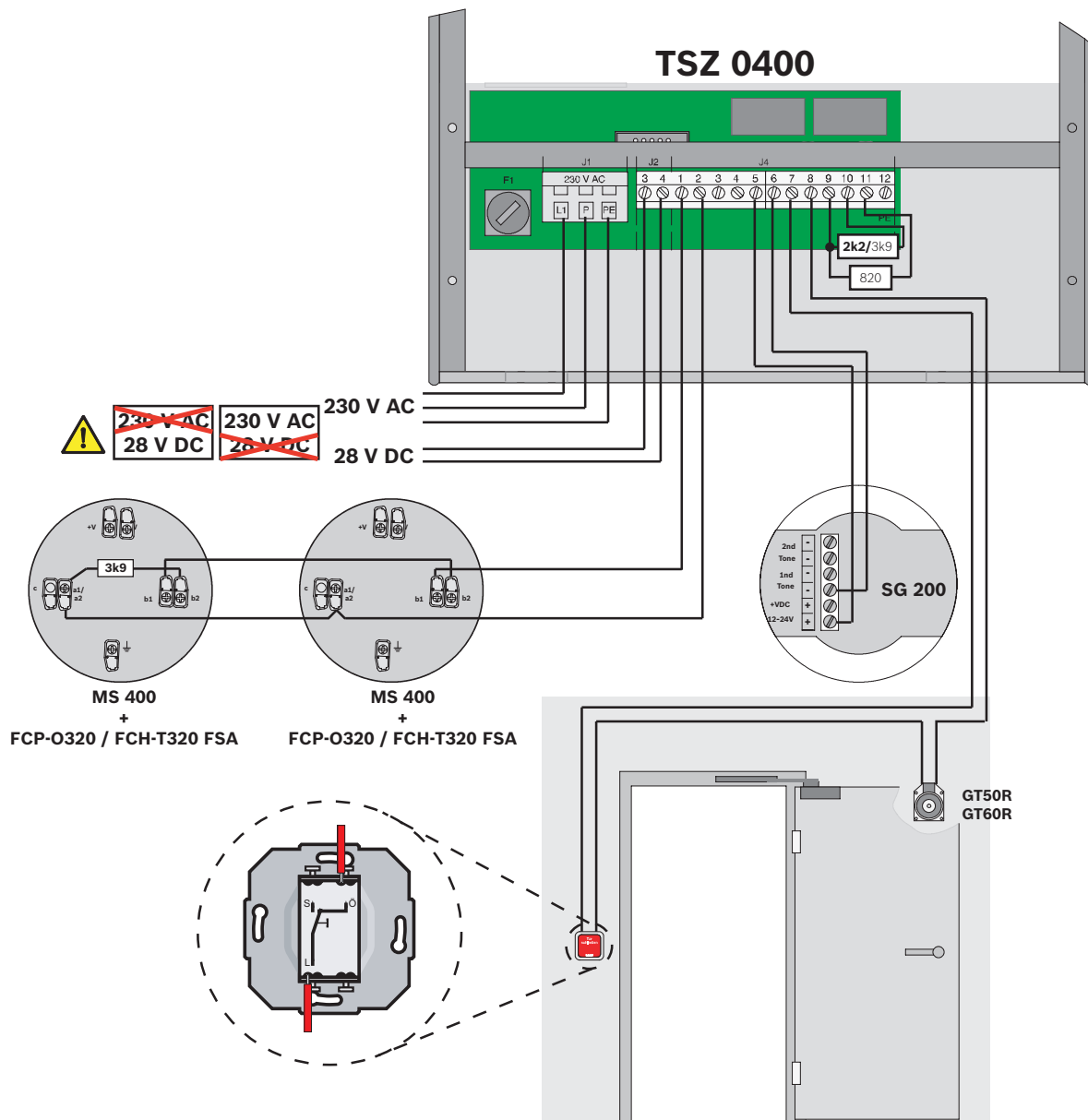


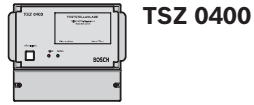




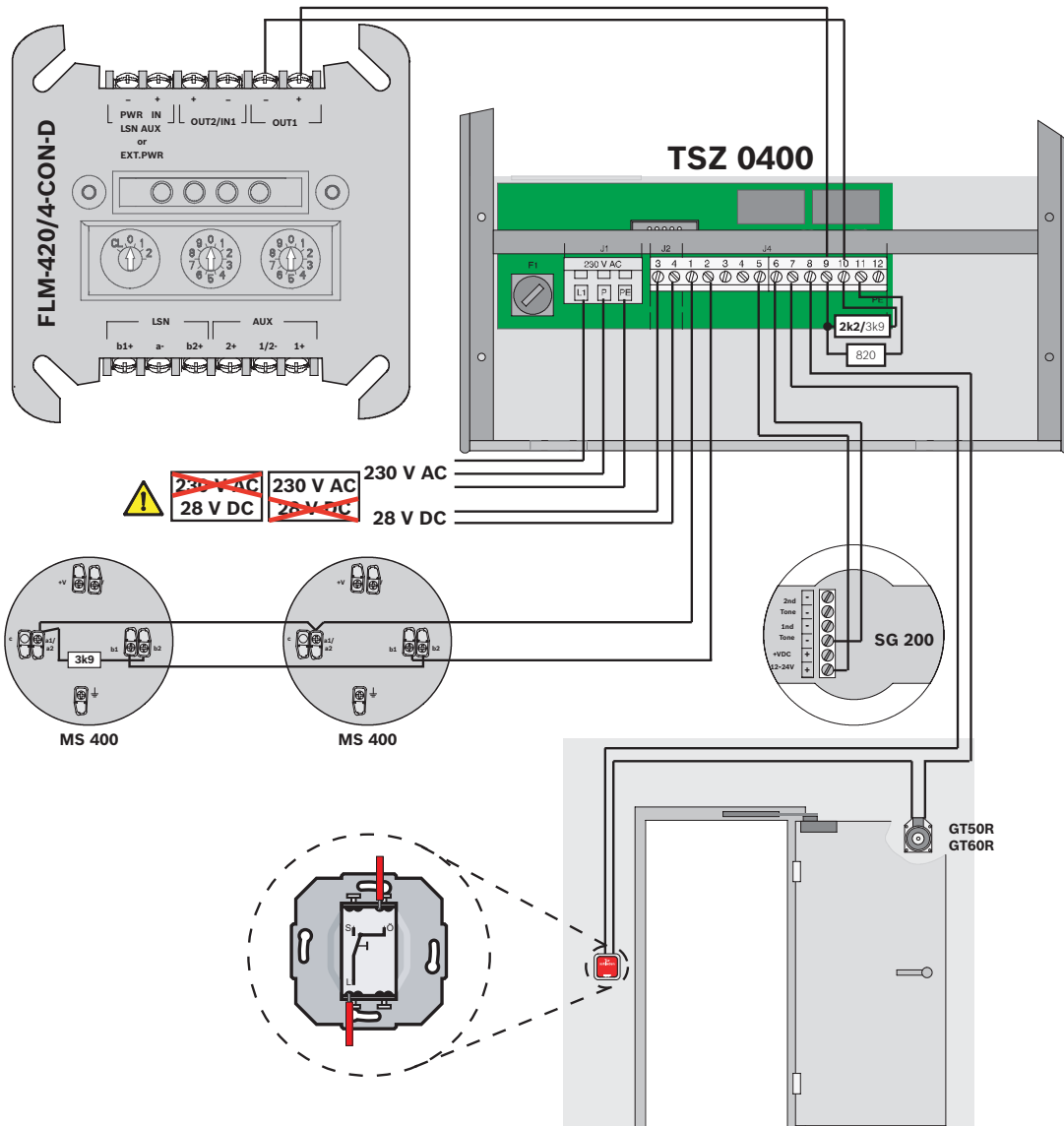
TSZ 0400

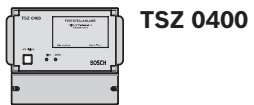
DIBT



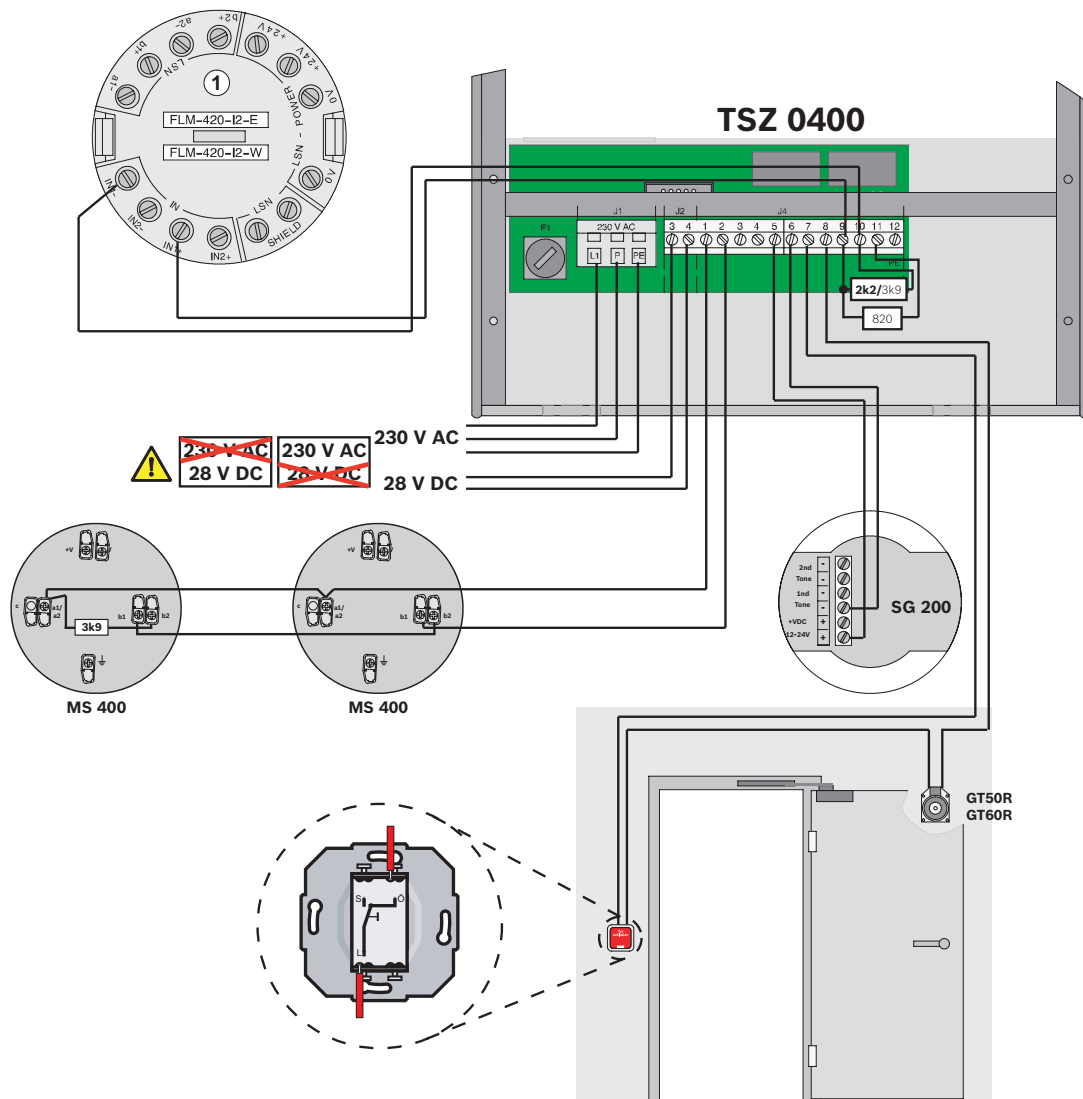


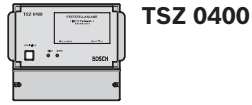
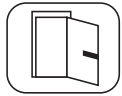
DIBT



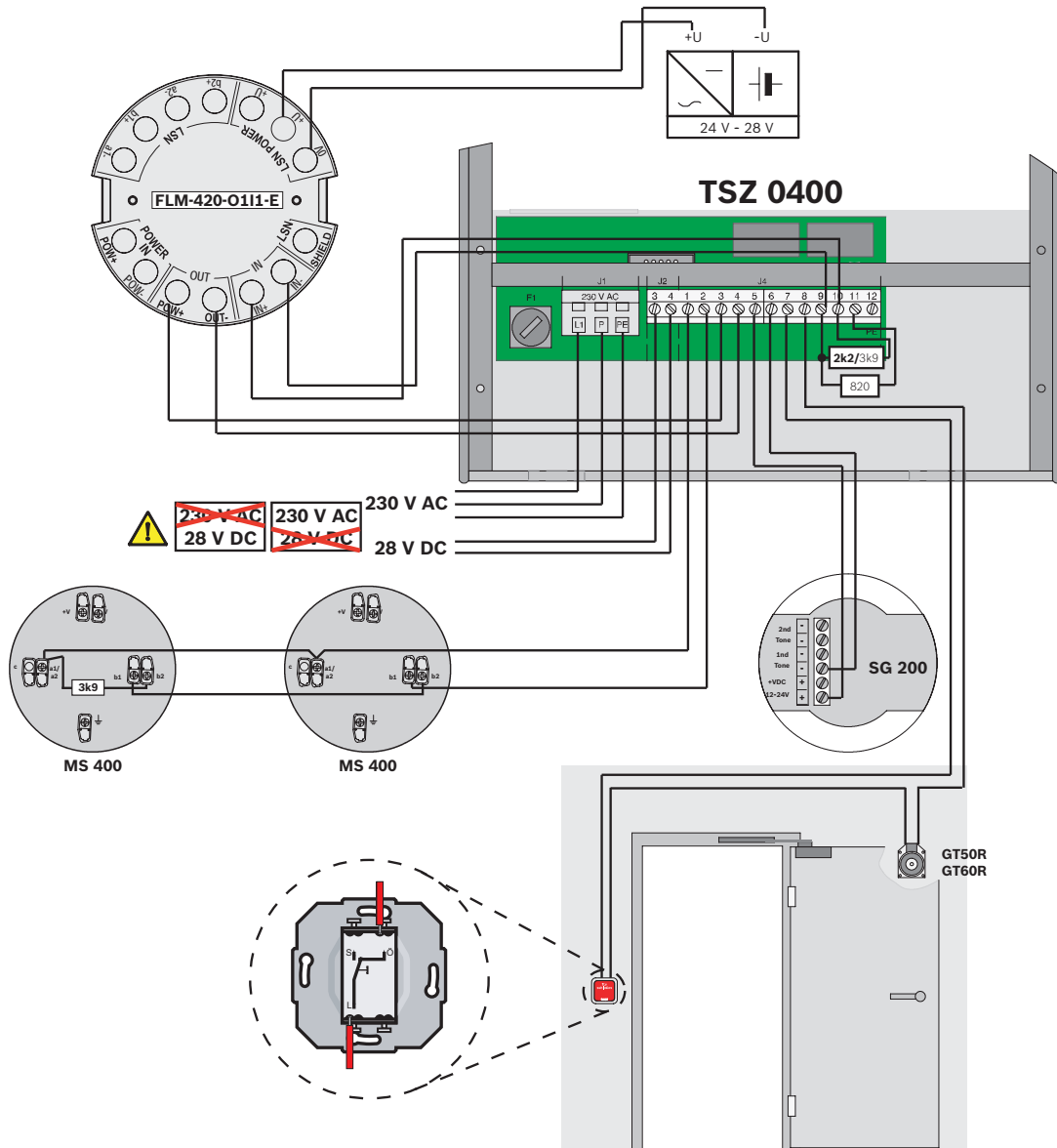


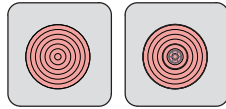
**DIBT**



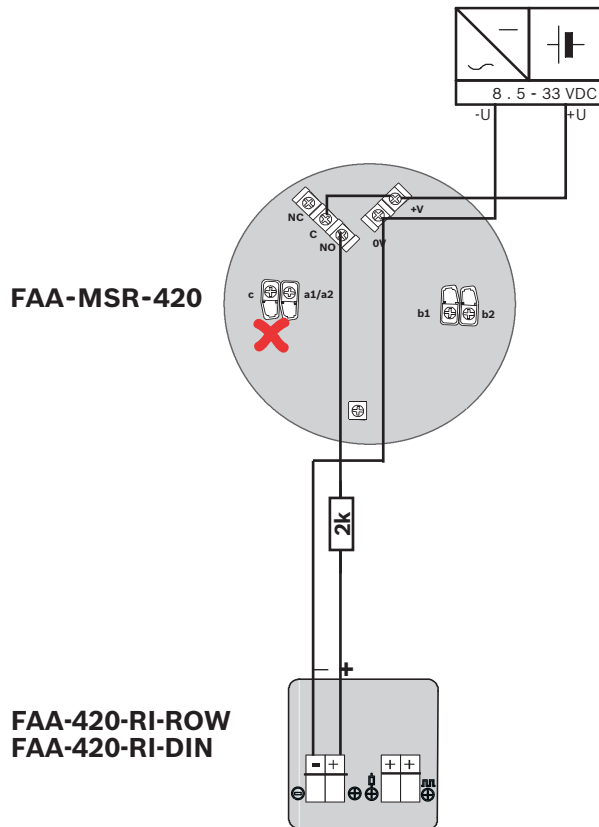
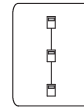


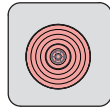
DIBT



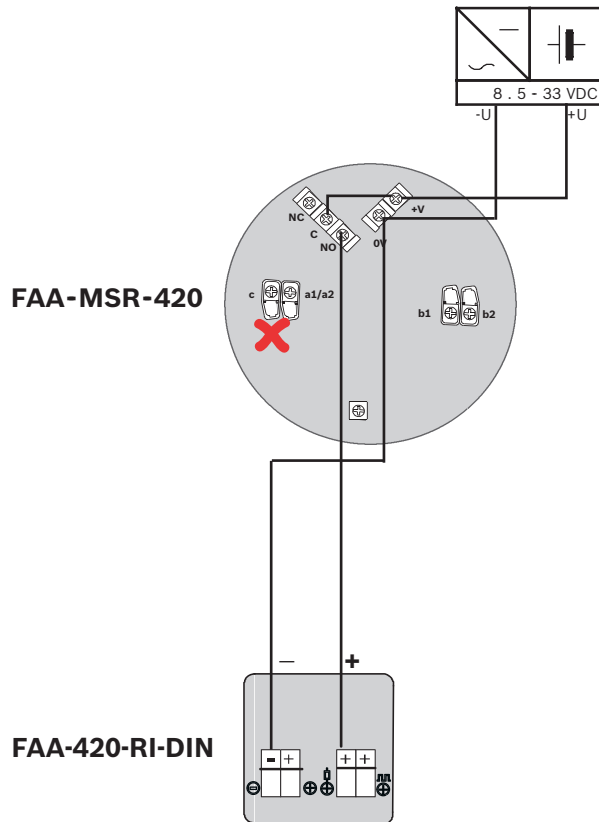
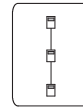


**FAA-420-RI-ROW**  
**FAA-420-RI-DIN**





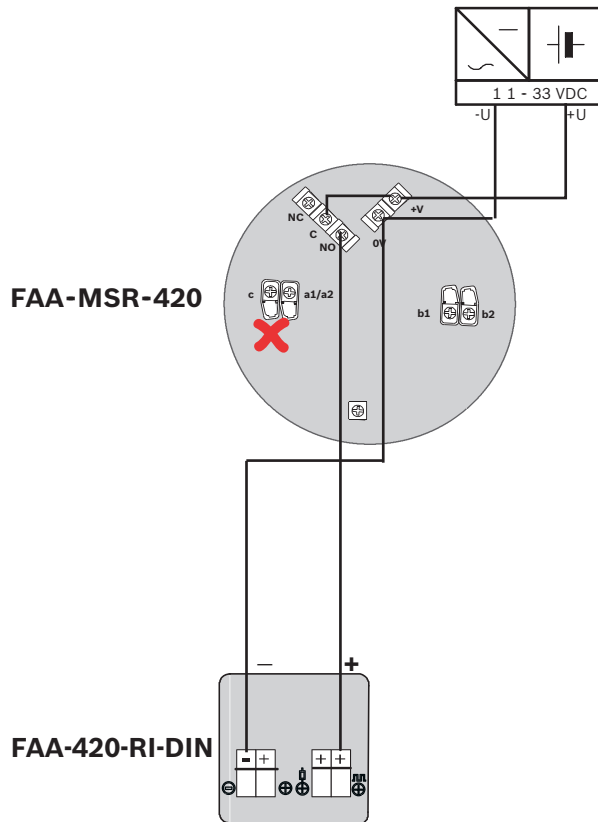
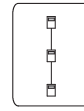
**FAA-420-RI-DIN**







**FAA-420-RI-DIN**



## 2.4

### Functional Modules



*BCM-000-B, Seite 43*

*CZM 0004 A, Seite 45*

*ENO 0000 A/B, Seite 61*

*LSN 0300 A, Seite 68*

*NZM 0002 A, Seite 106*

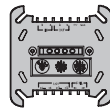
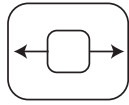
*RMH 0002 A, Seite 119*

*IOS 0020 A, Seite 120*

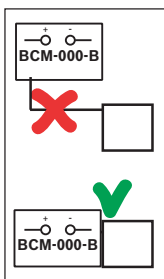
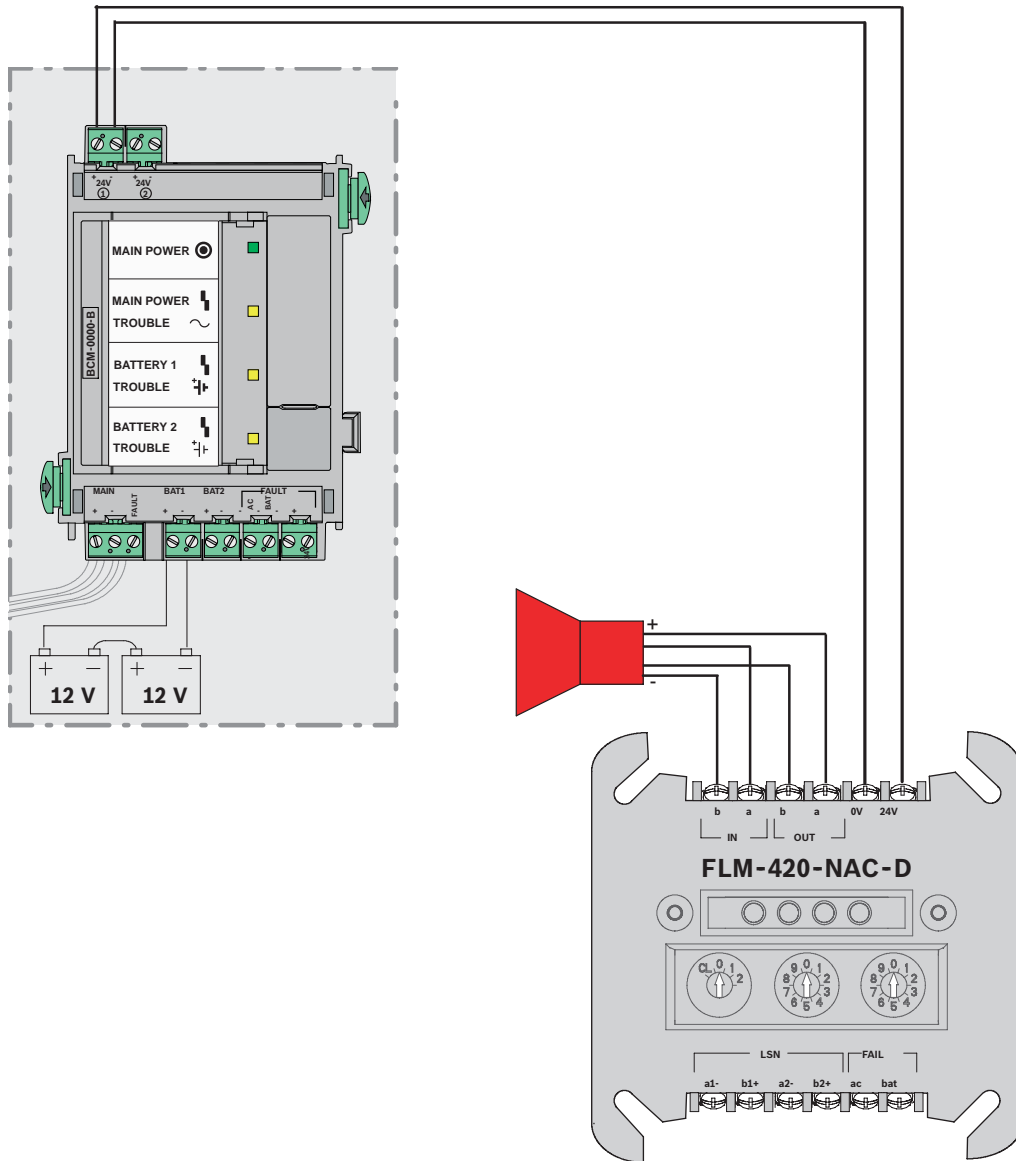
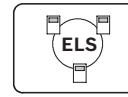
*FPE-5000-UGM, Seite 122*

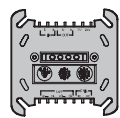
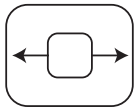
2.4.1

BCM-000-B

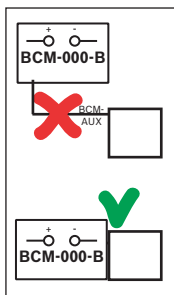
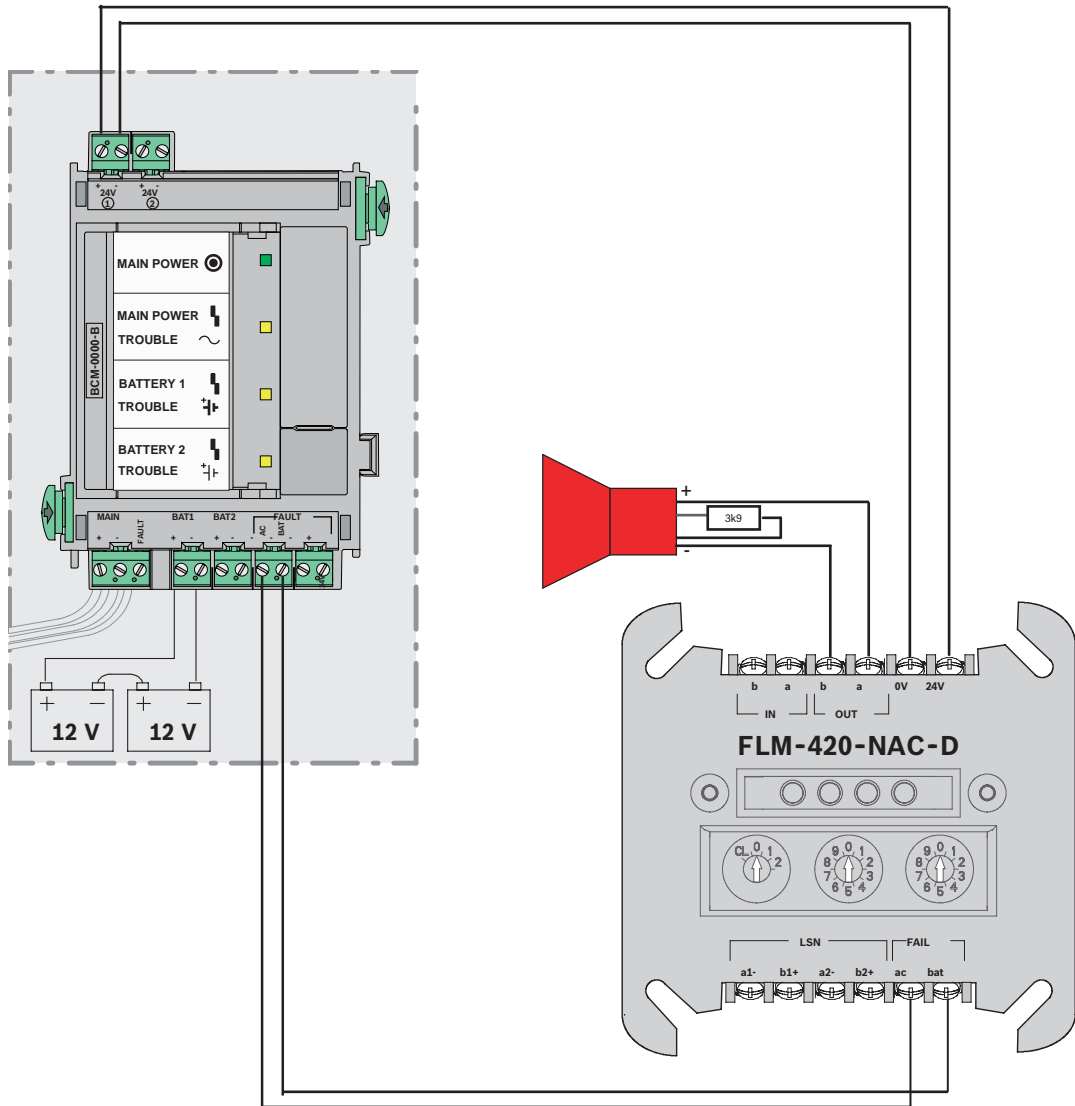
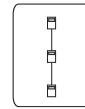


FLM-420-NAC-D





**FLM-420-NAC-D**

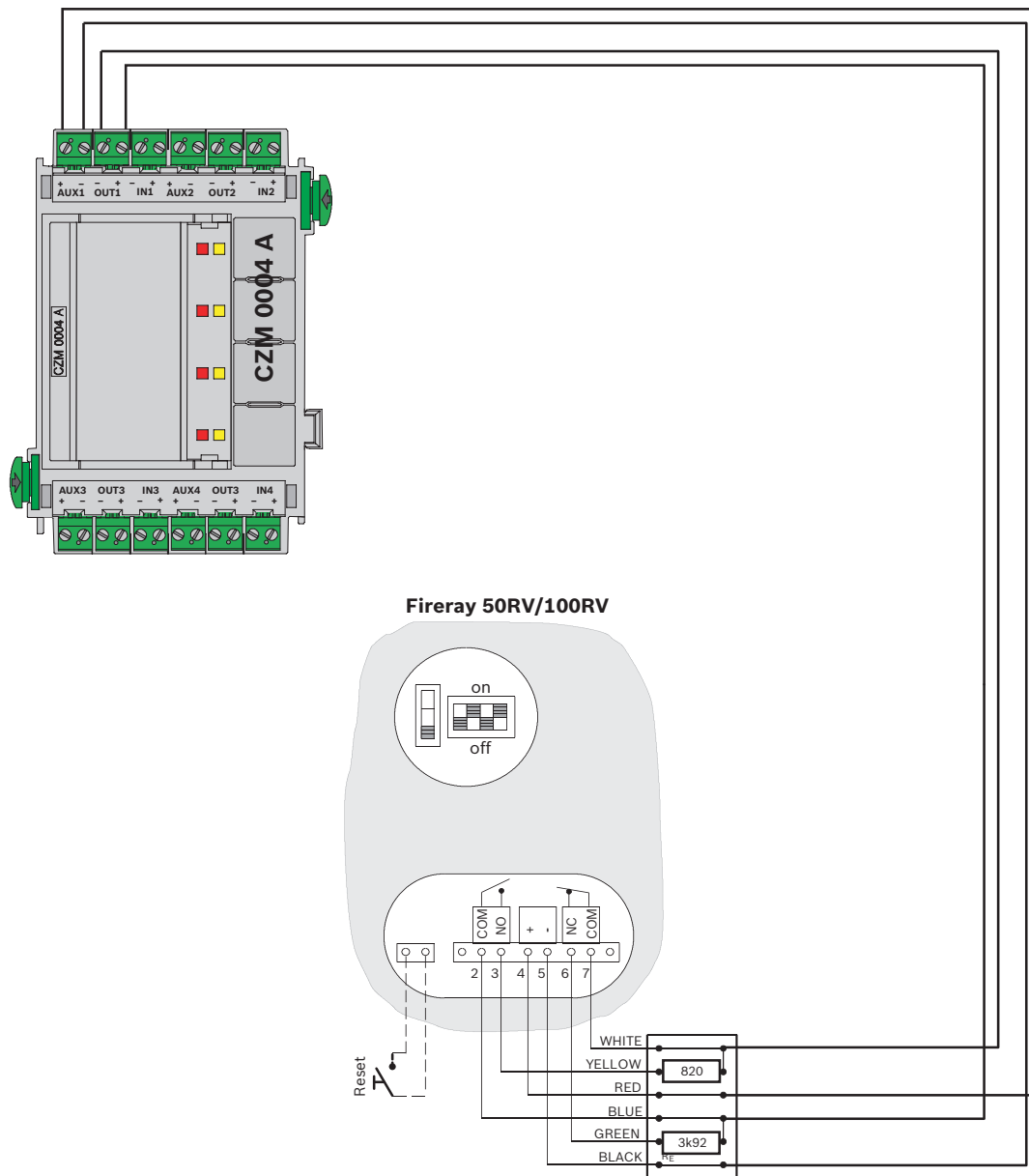


2.4.2

CZM 0004 A



**Firearay 50RV**  
**Firearay 100RV**



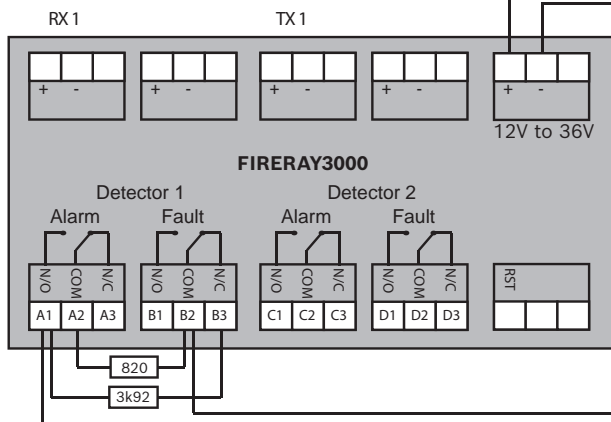
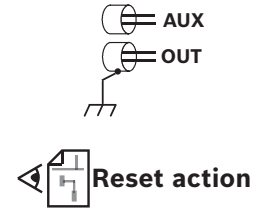
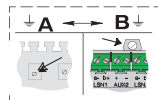
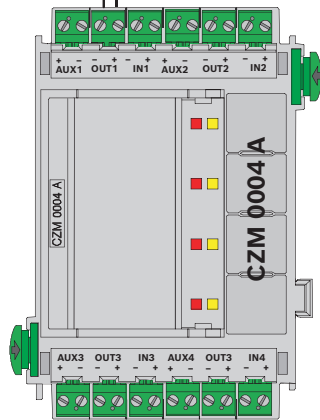


**FIRERAY3000**

1 x



BCM-0000-B  
LSN 0300 A  
LSN 1500 A

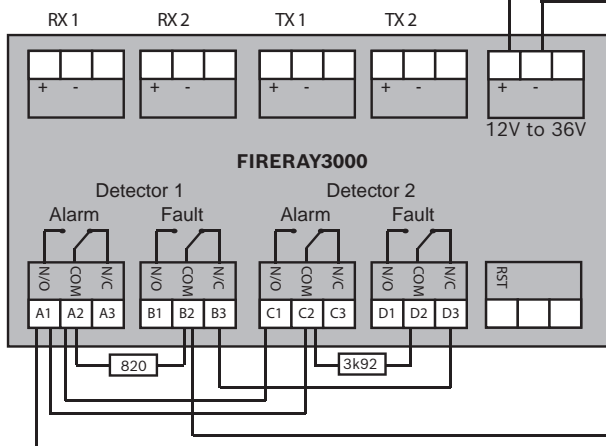
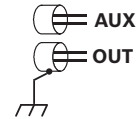
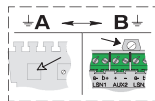
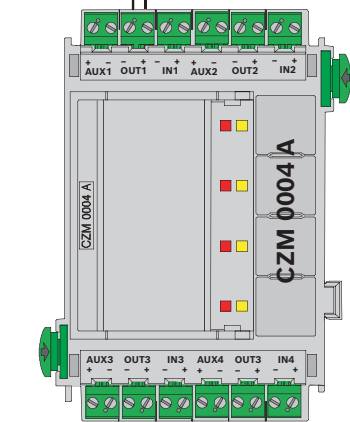




**FIRERAY3000**  
2 x  **OUT1**



BCM-000-B  
LSN 0300 A  
LSN 1500 A

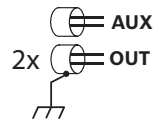
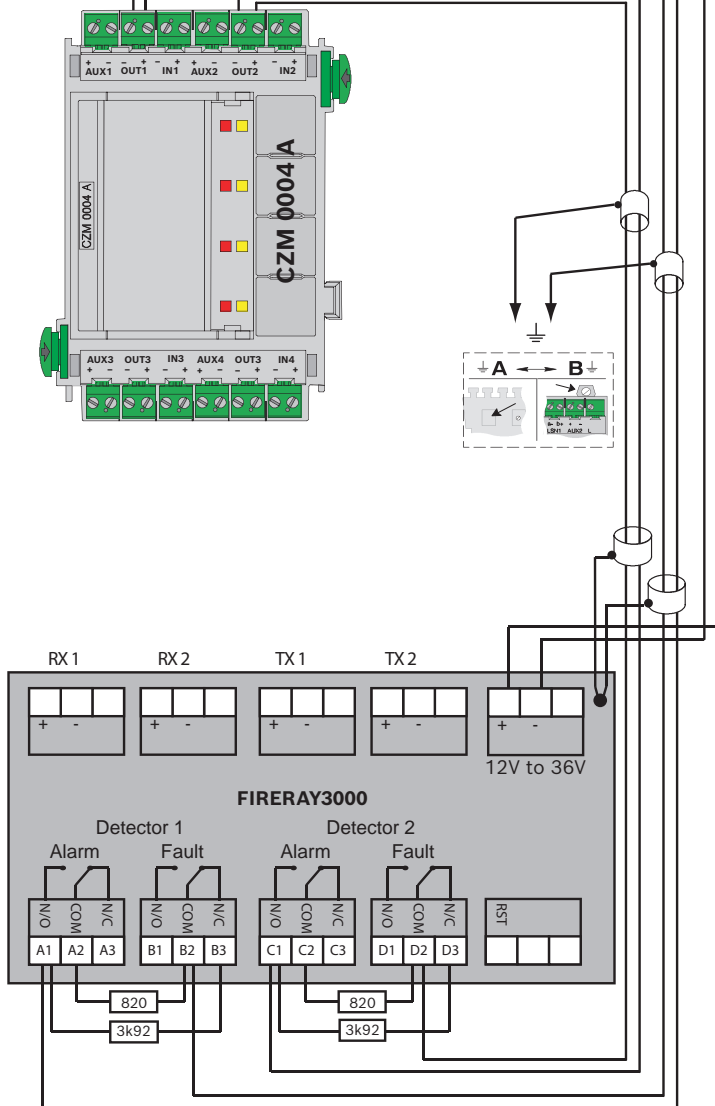




**FIRERAY3000**  
2 x **OUT1+2**



BCM-0000-B  
LSN 0300 A  
LSN 1500 A



**Reset action**



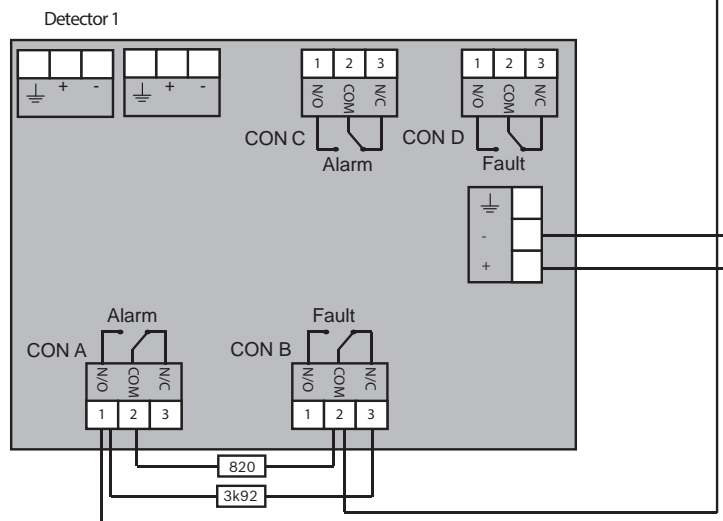
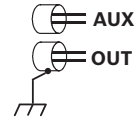
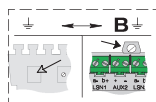
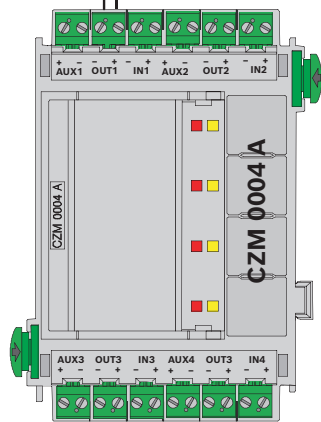


**FIRERAY5000**

1 x



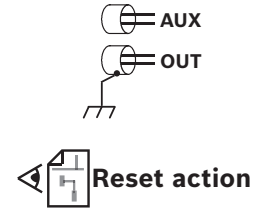
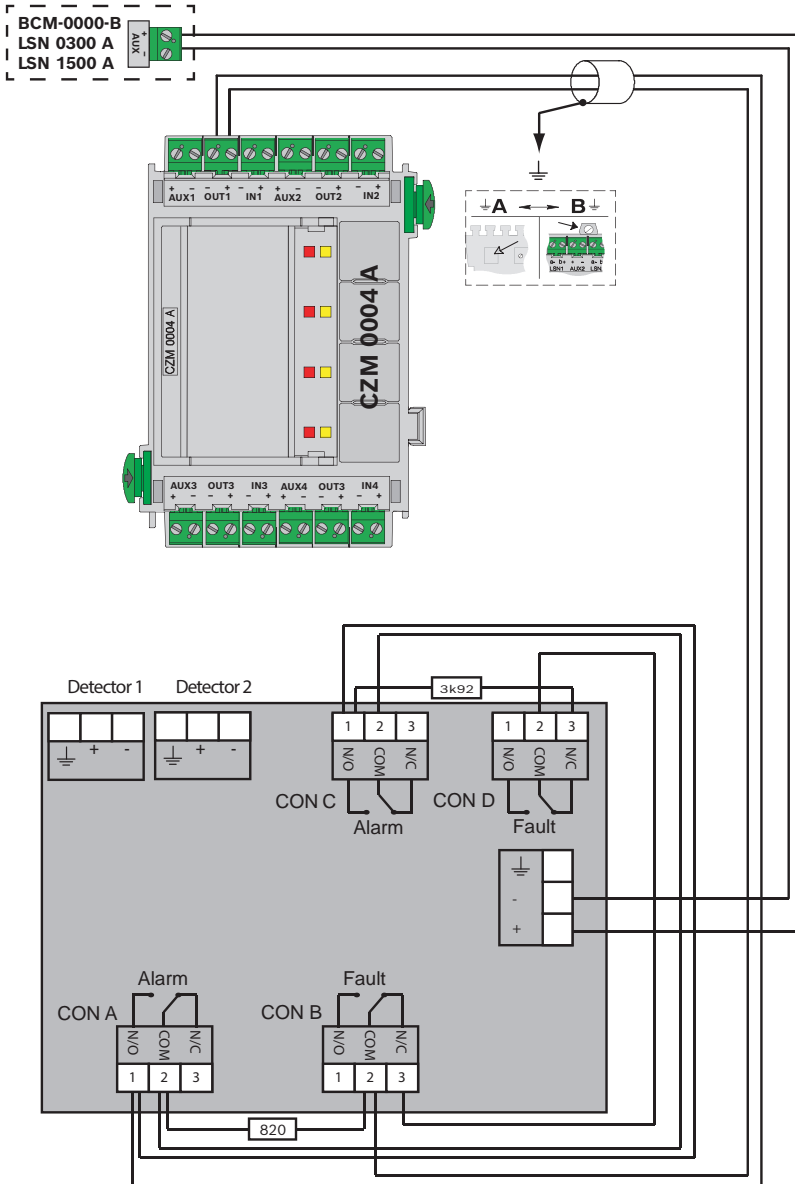
BCM-0000-B  
LSN 0300 A  
LSN 1500 A

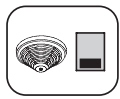




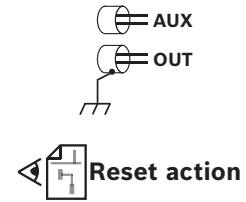
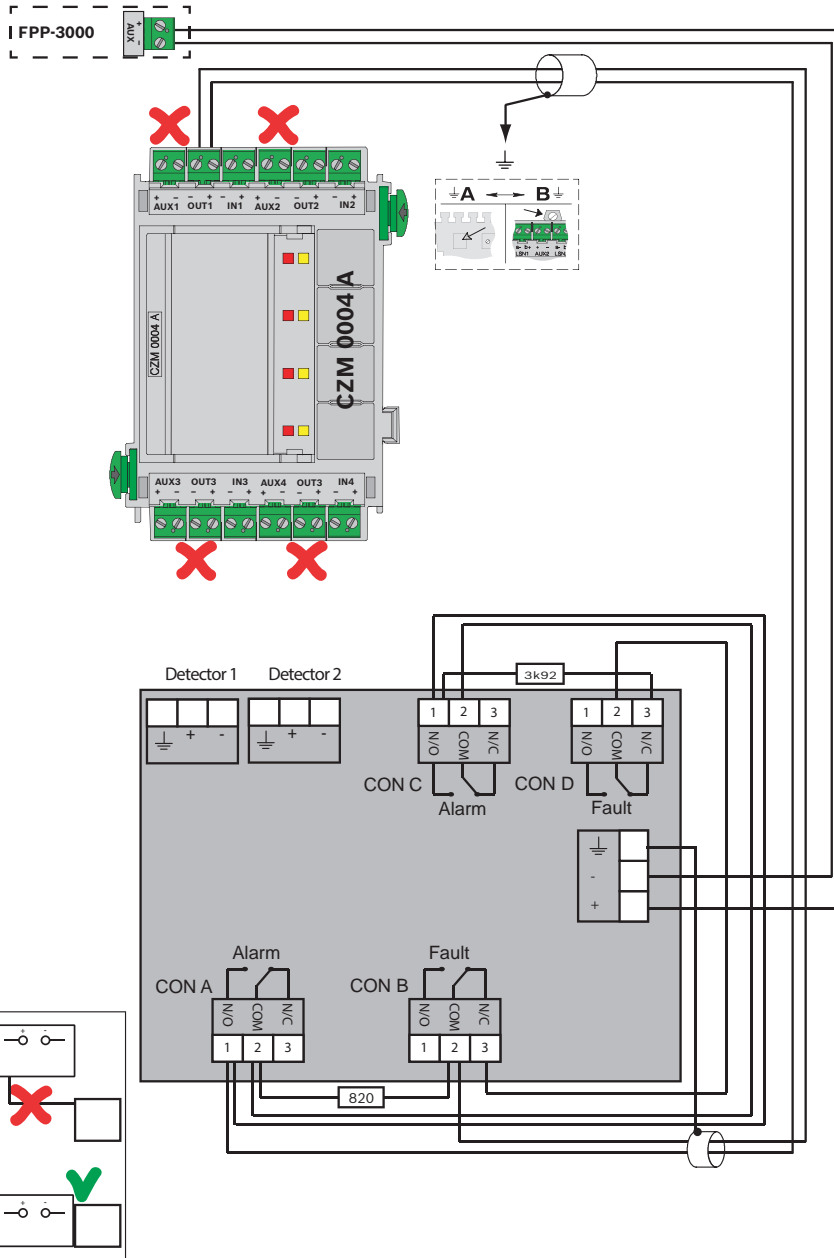
**FIRERAY5000**

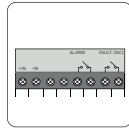
**2 x OUT1**



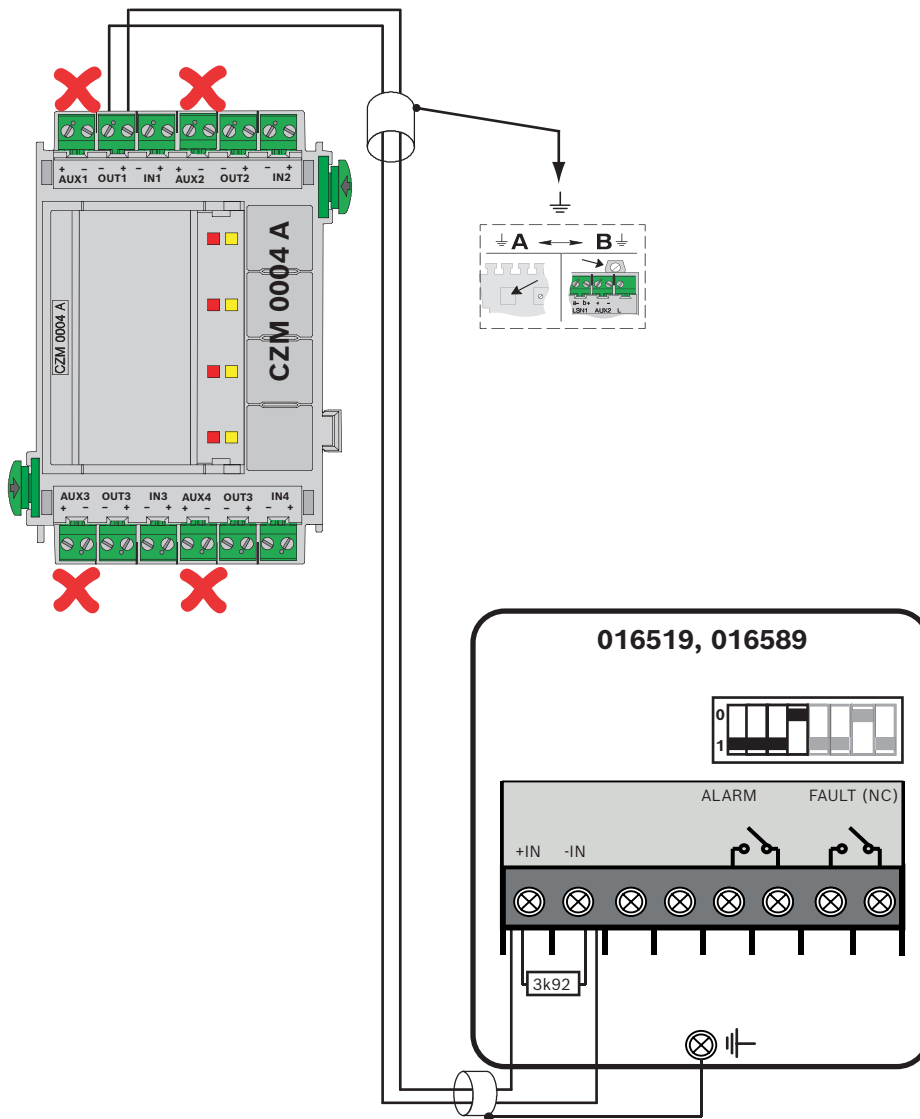
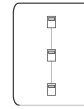


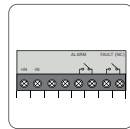
**FIRERAY5000**  
2 x  **OUT1**



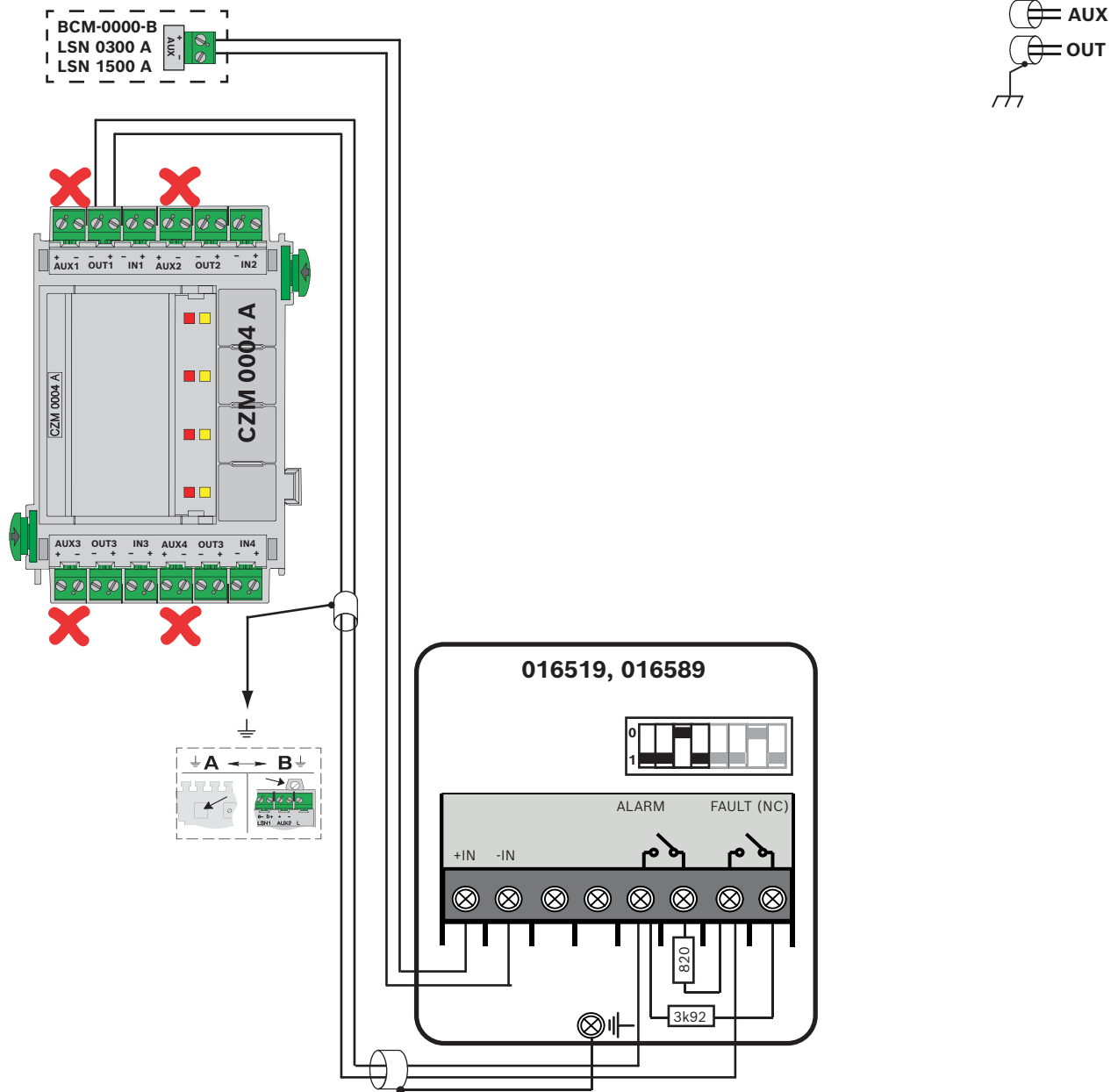
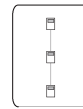


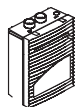
**016519, 016589  
IR3 Flame Detector**



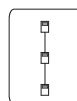


**016519, 016589  
IR3 Flame Detector**

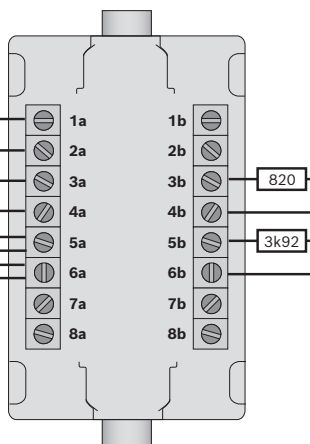
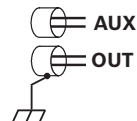
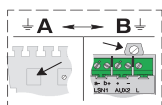
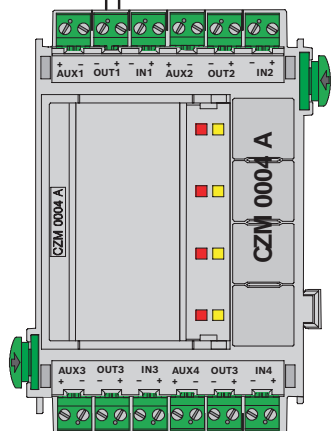


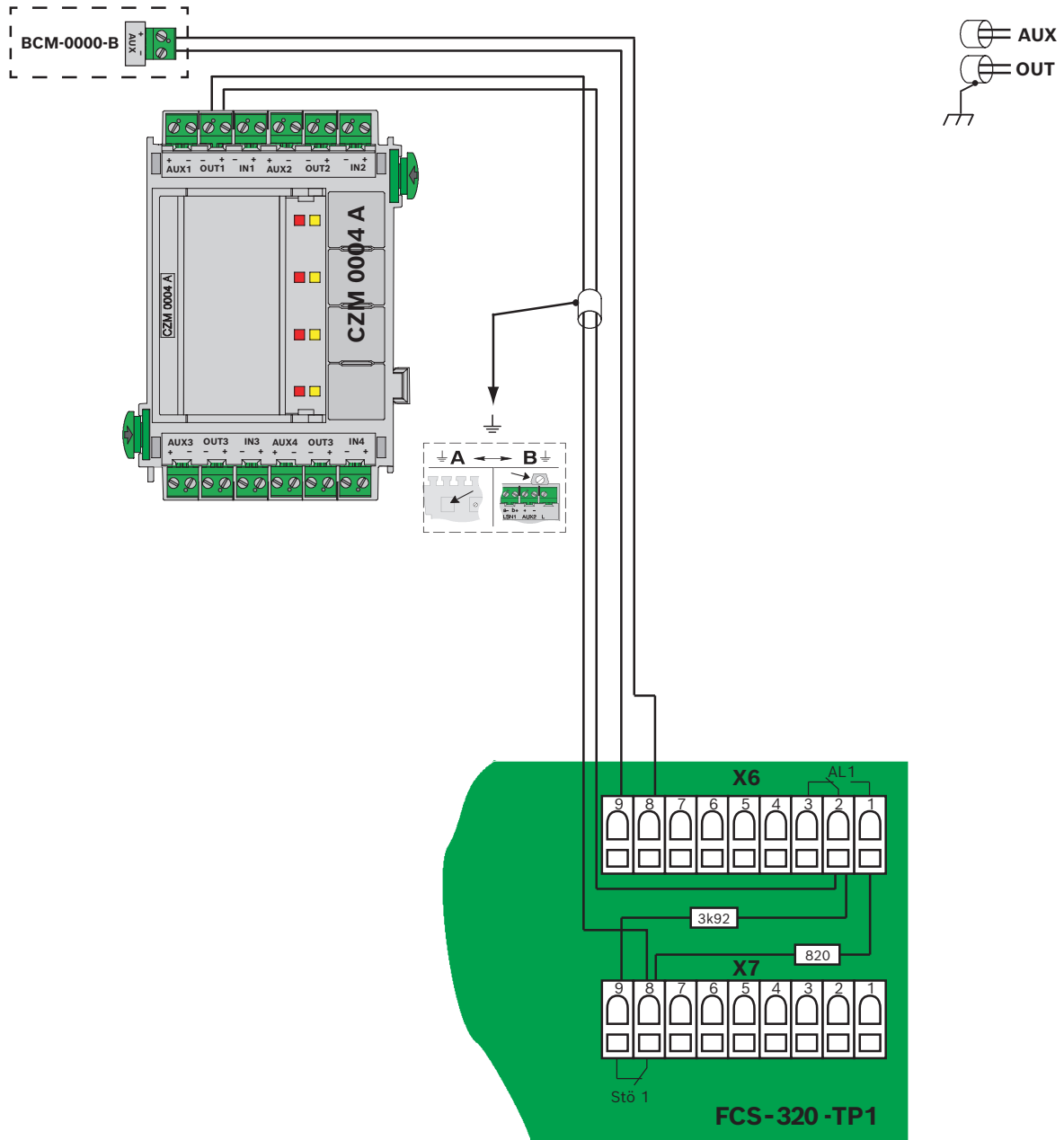
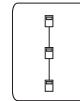
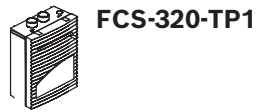


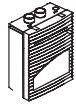
FCS-320-TM Series



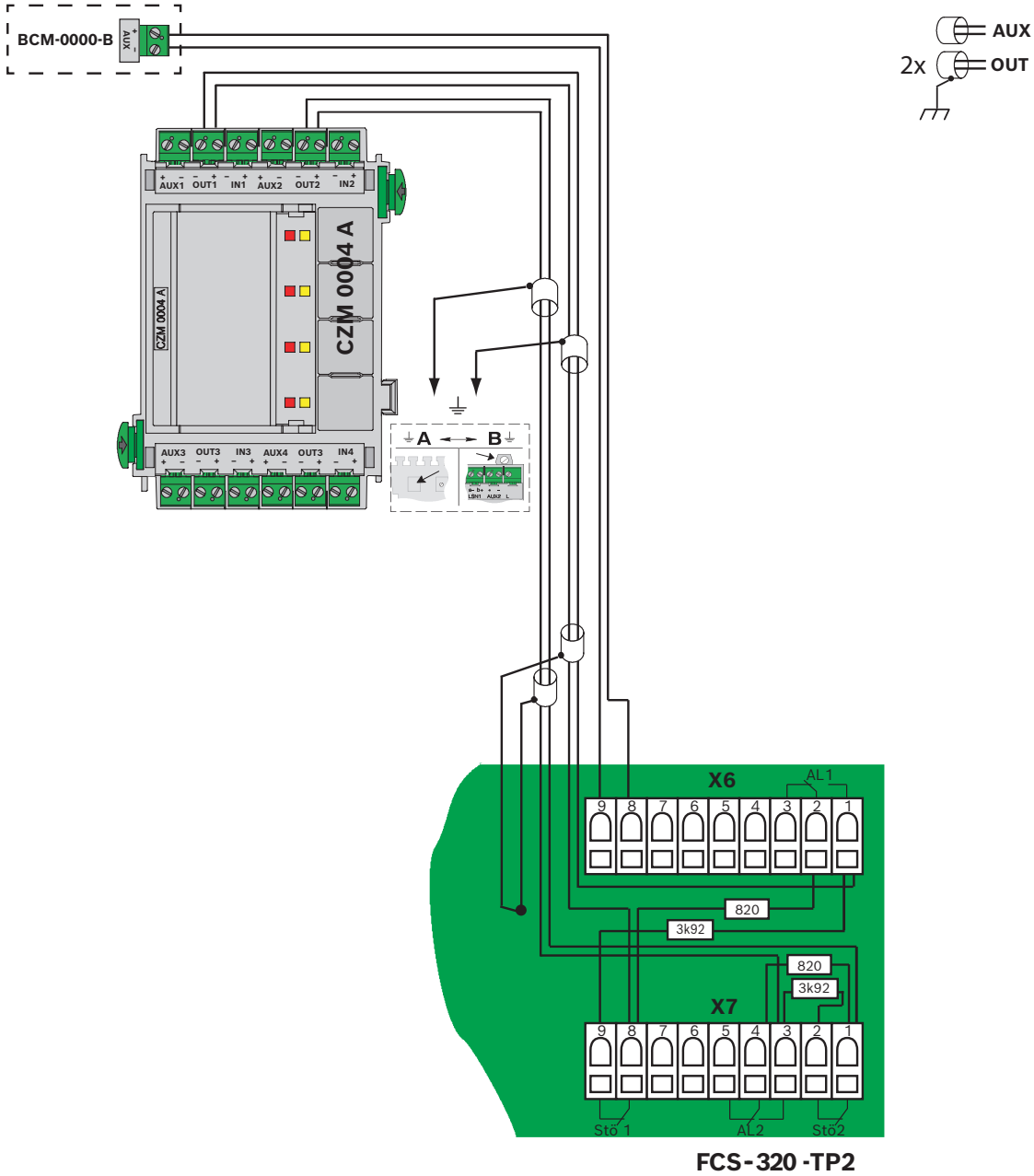
BCM-0000-B  
LSN 0300 A  
LSN 1500 A







FCS-320-TP2

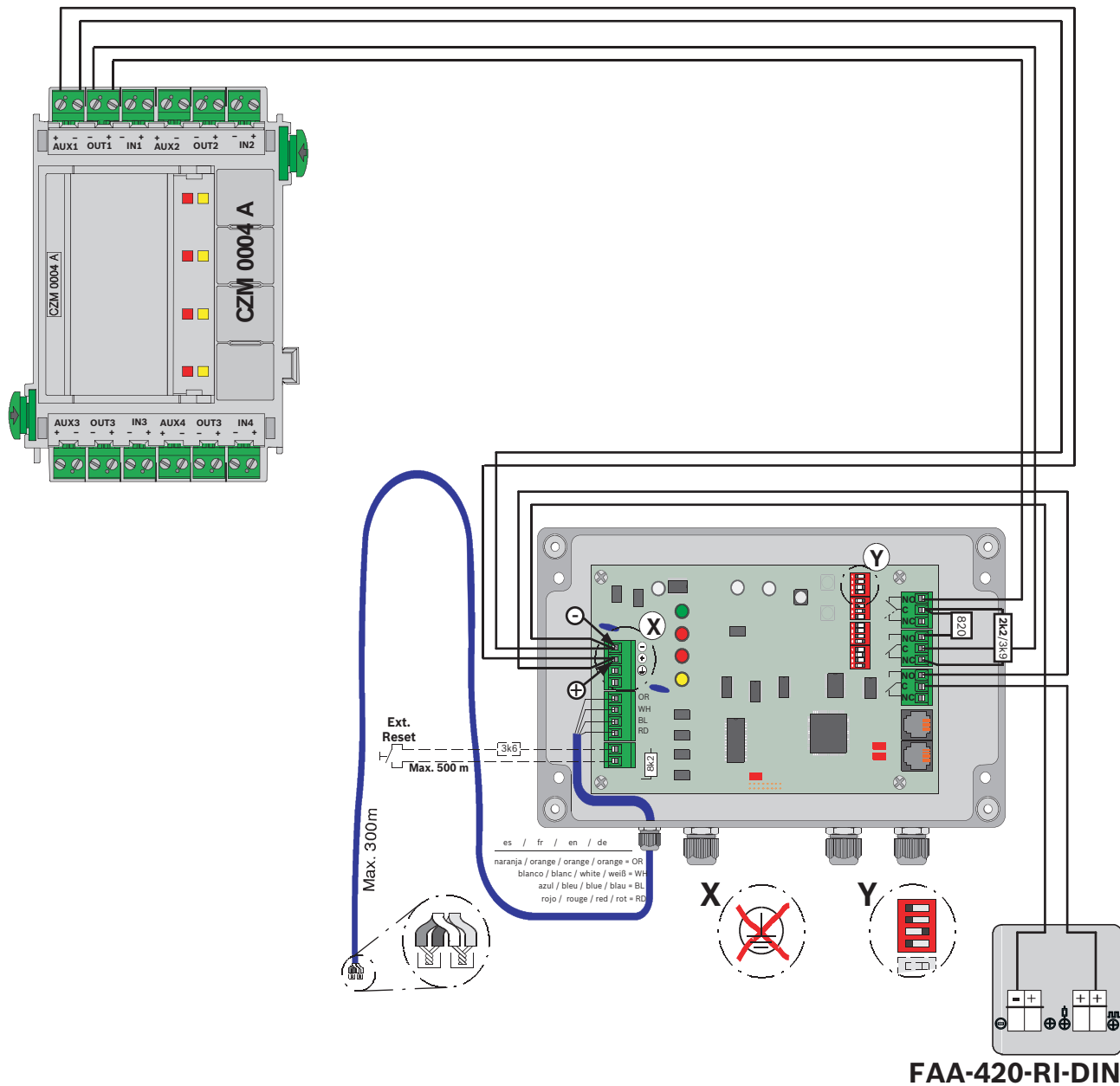


FCS-320-TP2



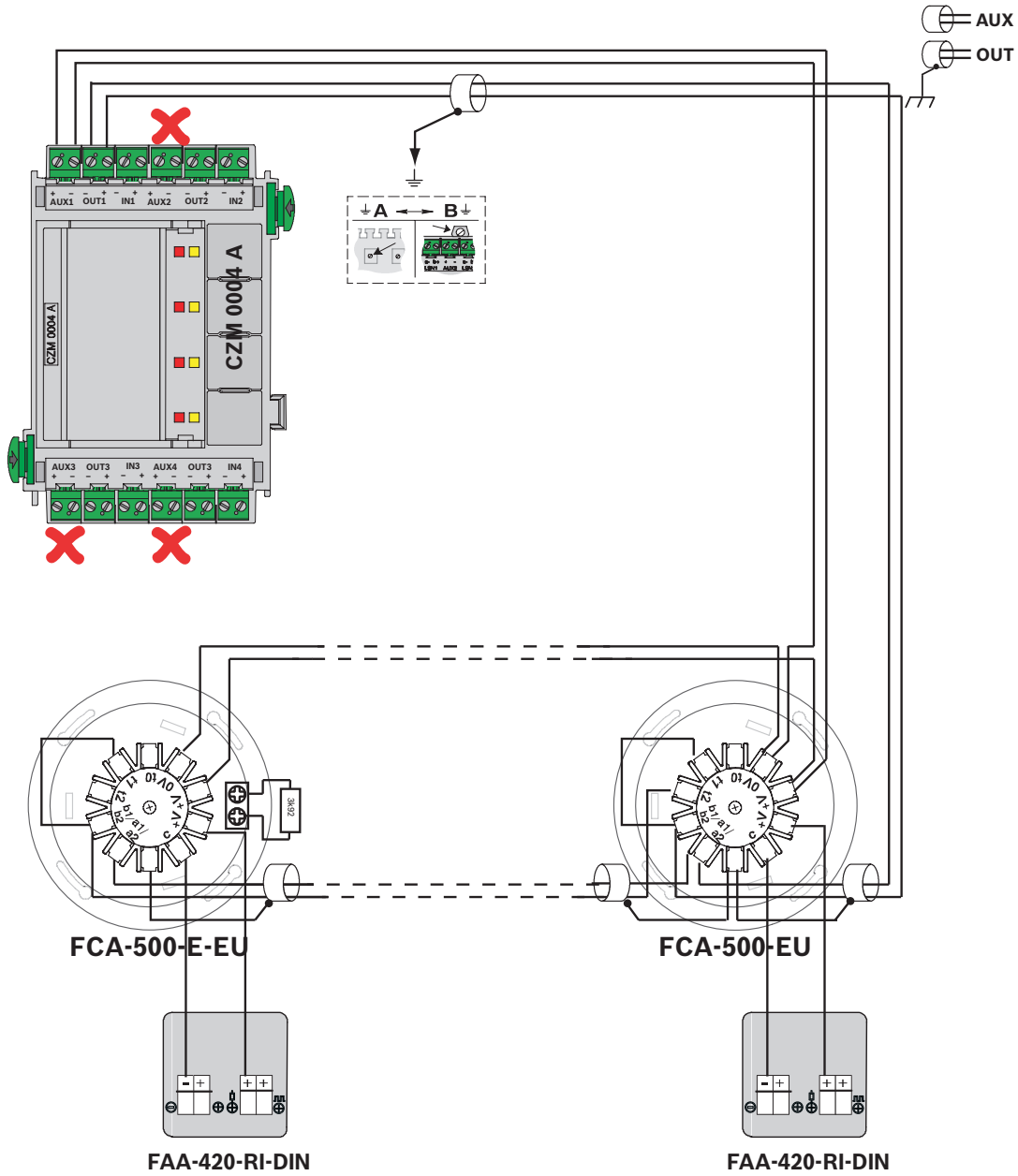


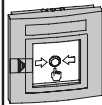
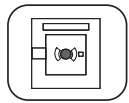
FCS-LWM-1



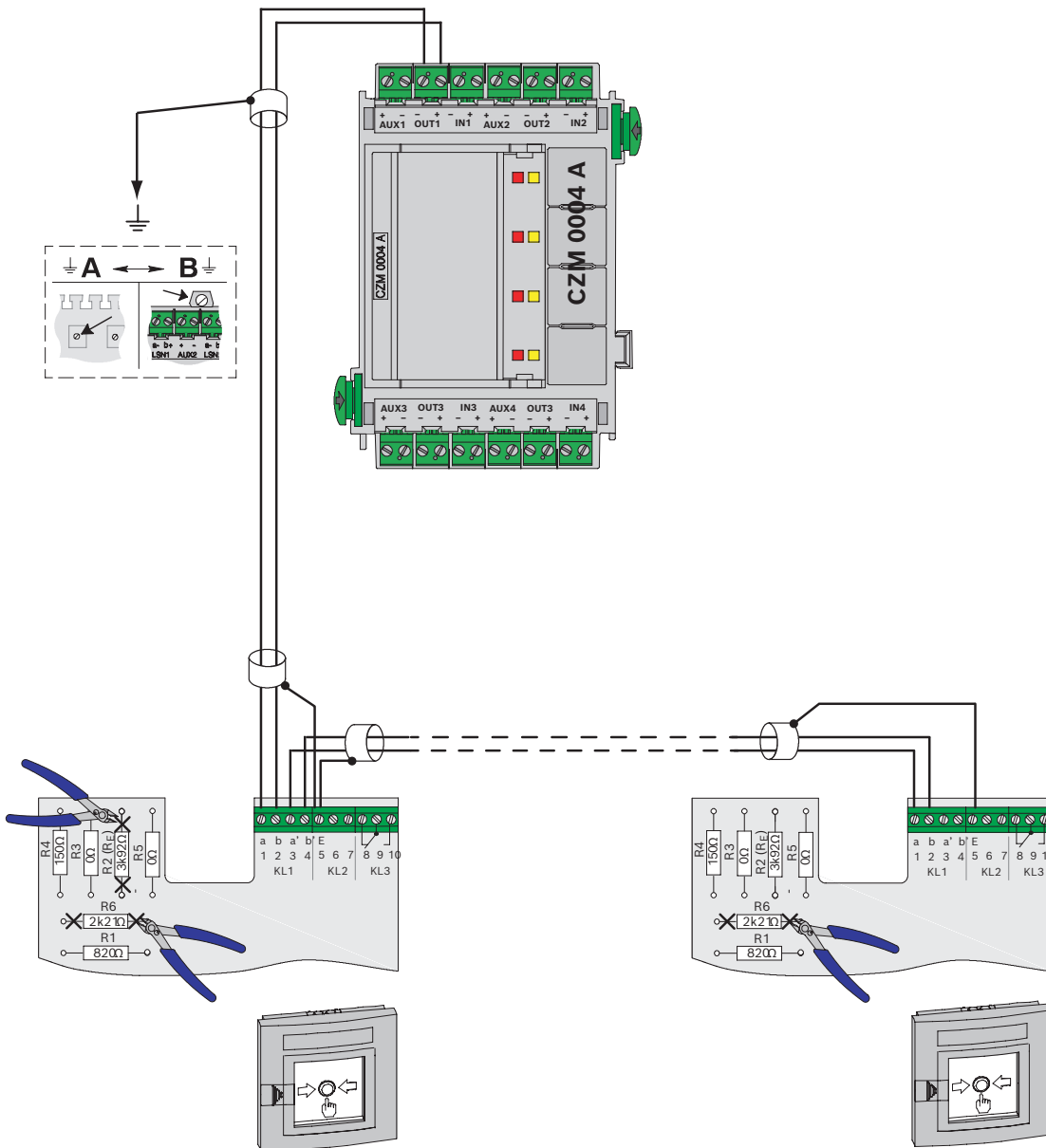
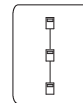


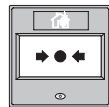
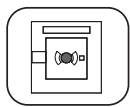
FCA-500-EU  
 FCP-O 500  
 FCP-O 500-P  
 FCP-OC 500  
 FCP-OC 500-P



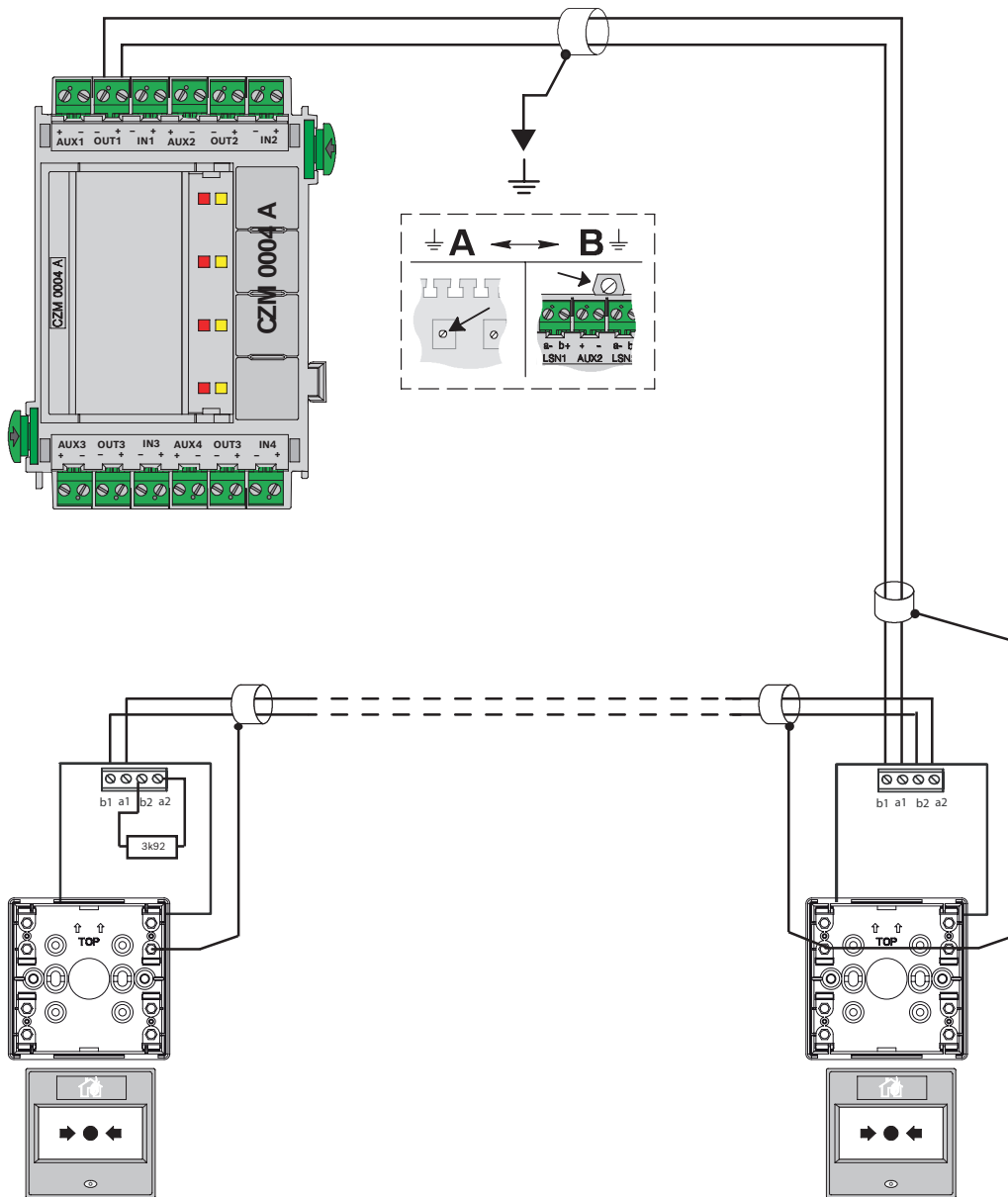
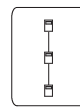


**FMC-120-DKM-G-R**  
**FMC-120-DKM-H-R**  
**FMC-120-DKM-G-B**  
**FMC-120-DKM-H-B**  
**FMC-120-DKM-G-Y**





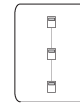
**FMC-300RW-GSGBU**  
**FMC-300RW-GSRBU**  
**FMC-300RW-GSGRD**  
**FMC-300RW-GSRRD**  
**FMC-300RW-GSGYE**  
**FMC-300RW-GSRYE**



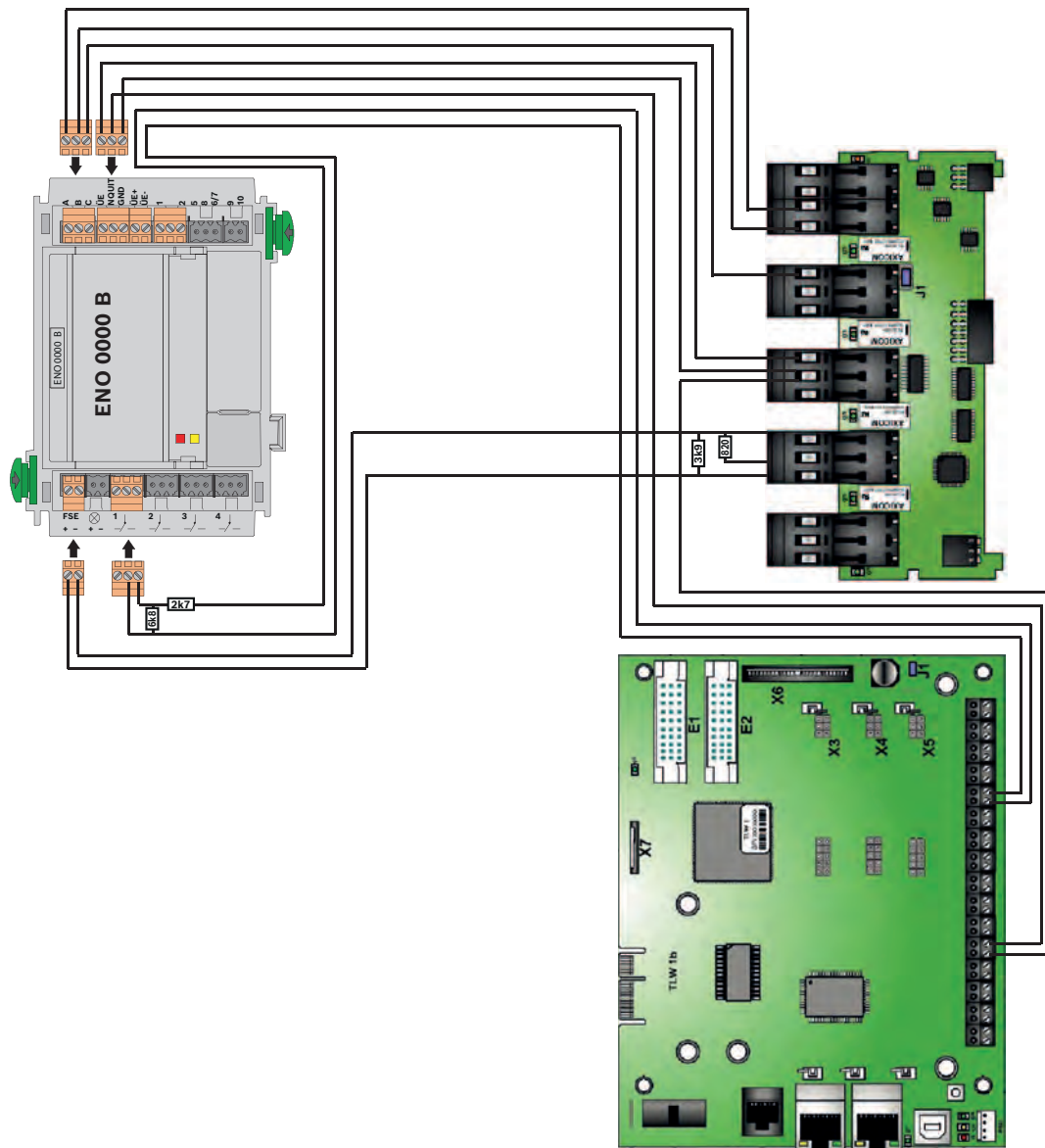
### 2.4.3 ENO 0000 A/B

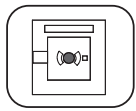


AT5000 IP/GPRS

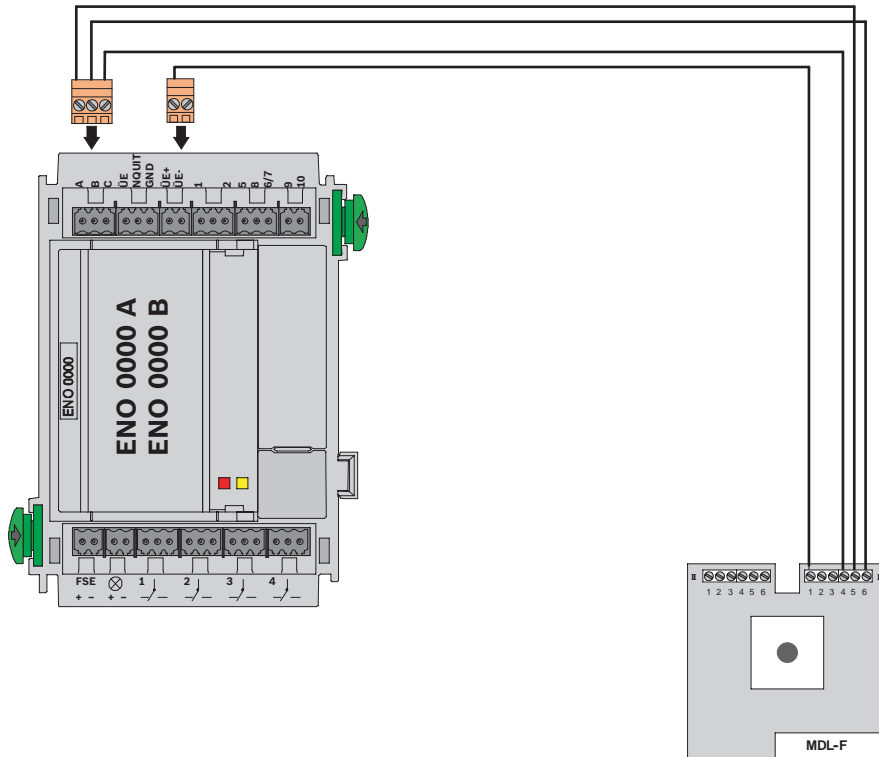


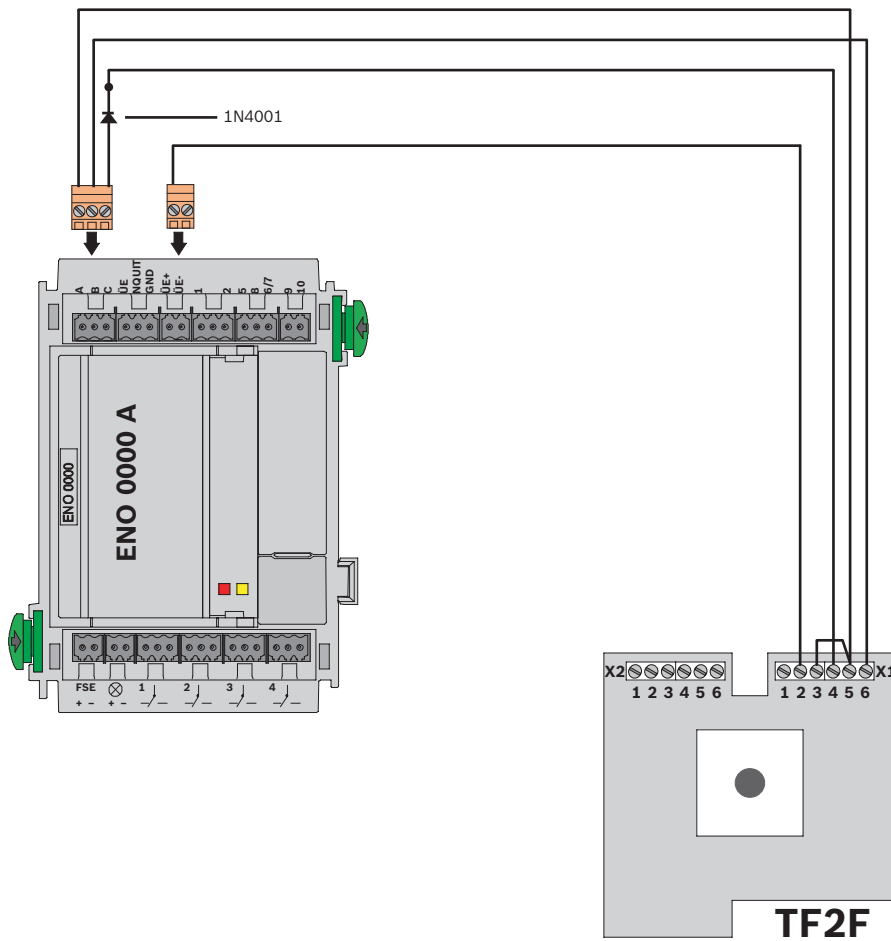
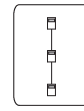
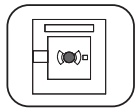
EN 54-2

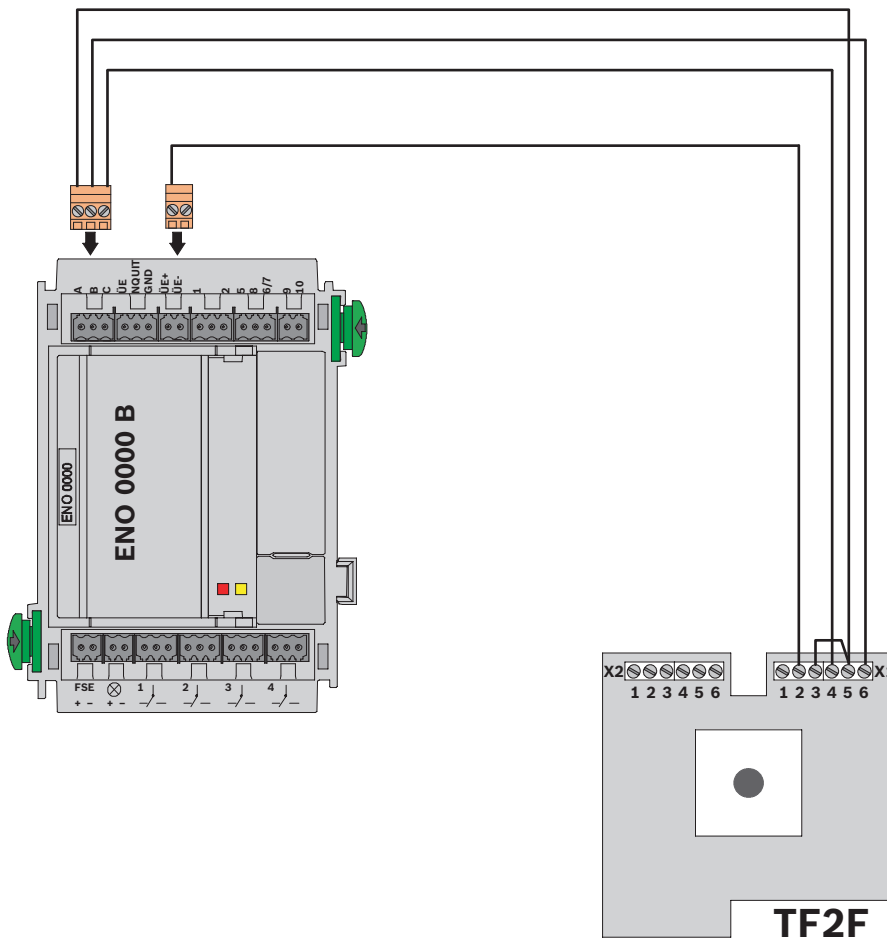
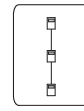
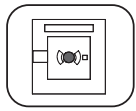




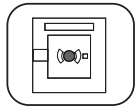
MDL-F



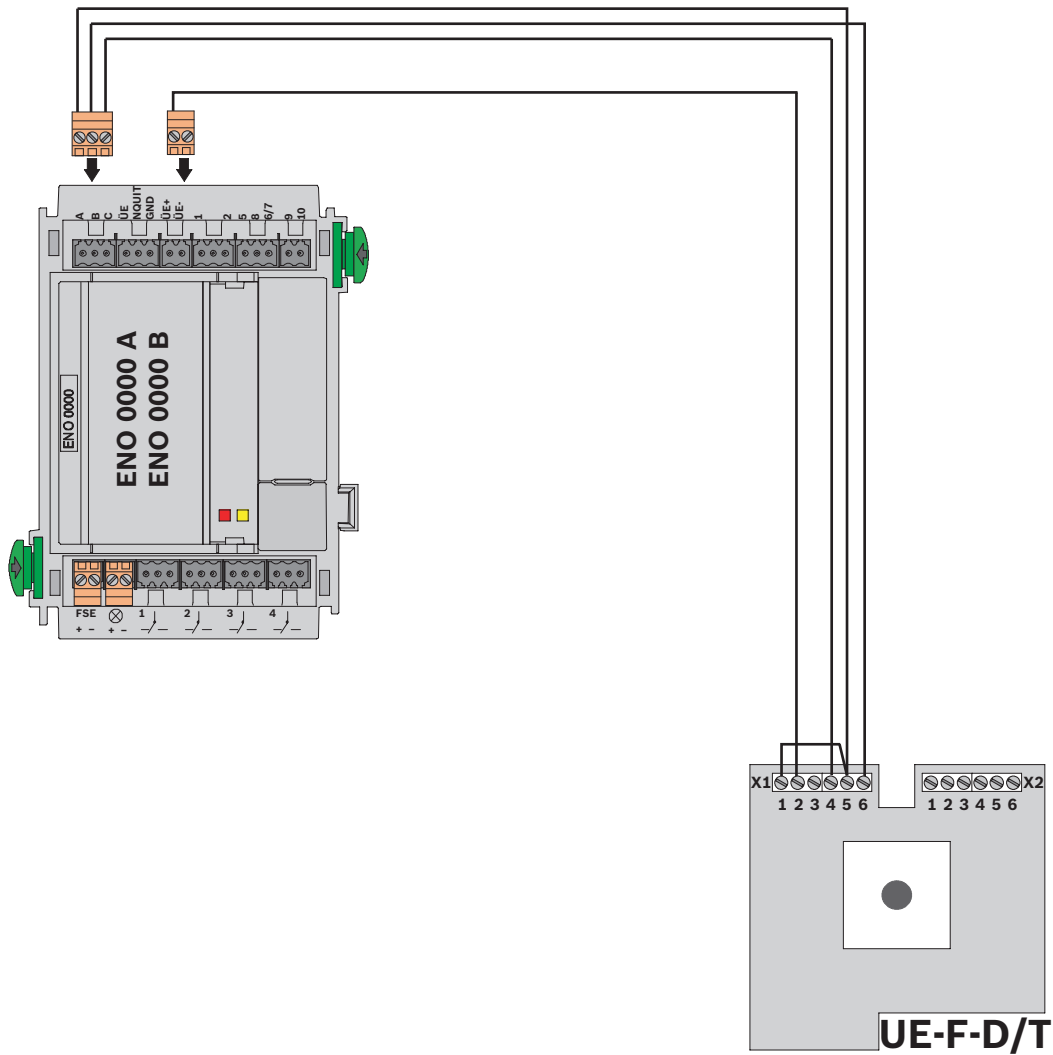


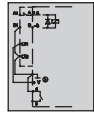




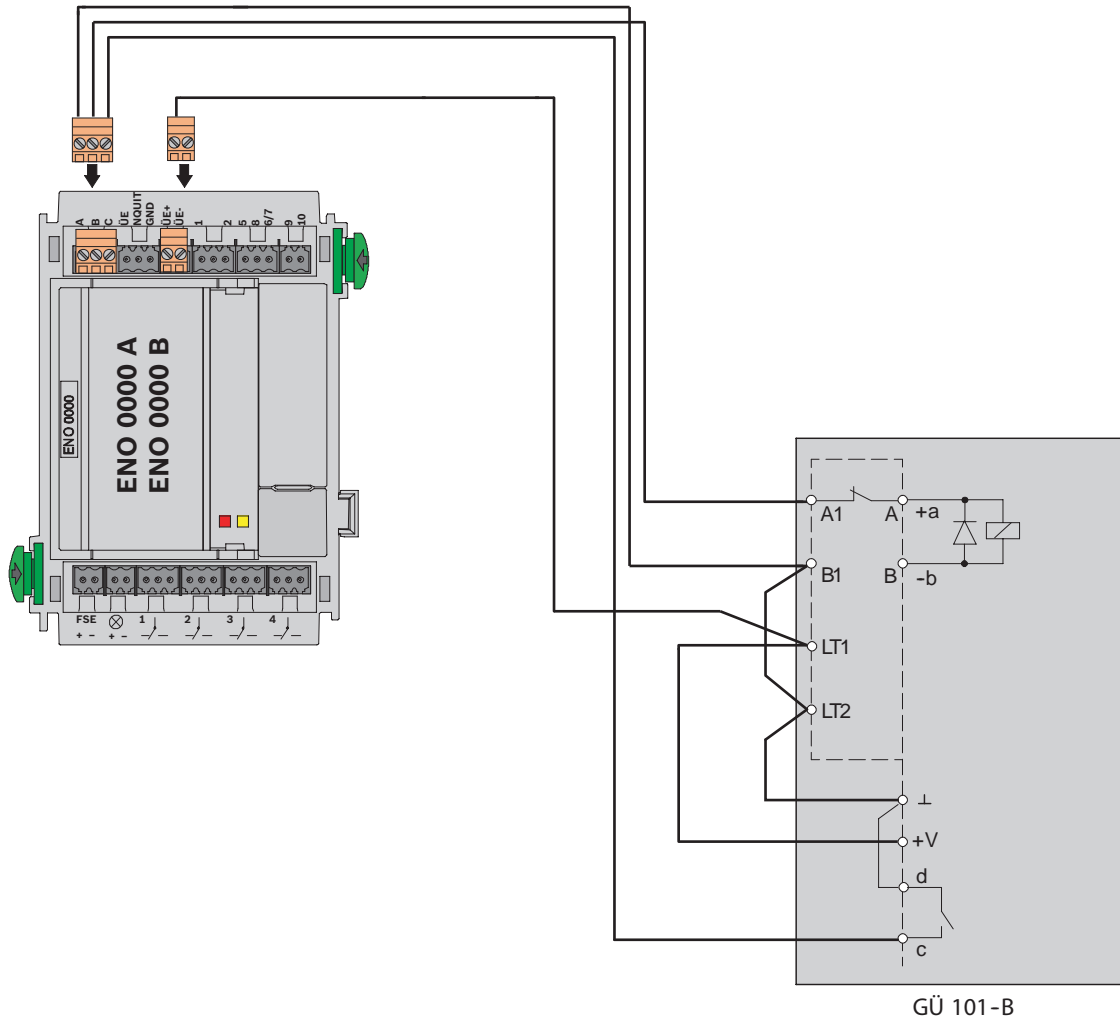
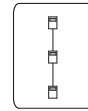


UE-F-D/T

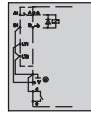




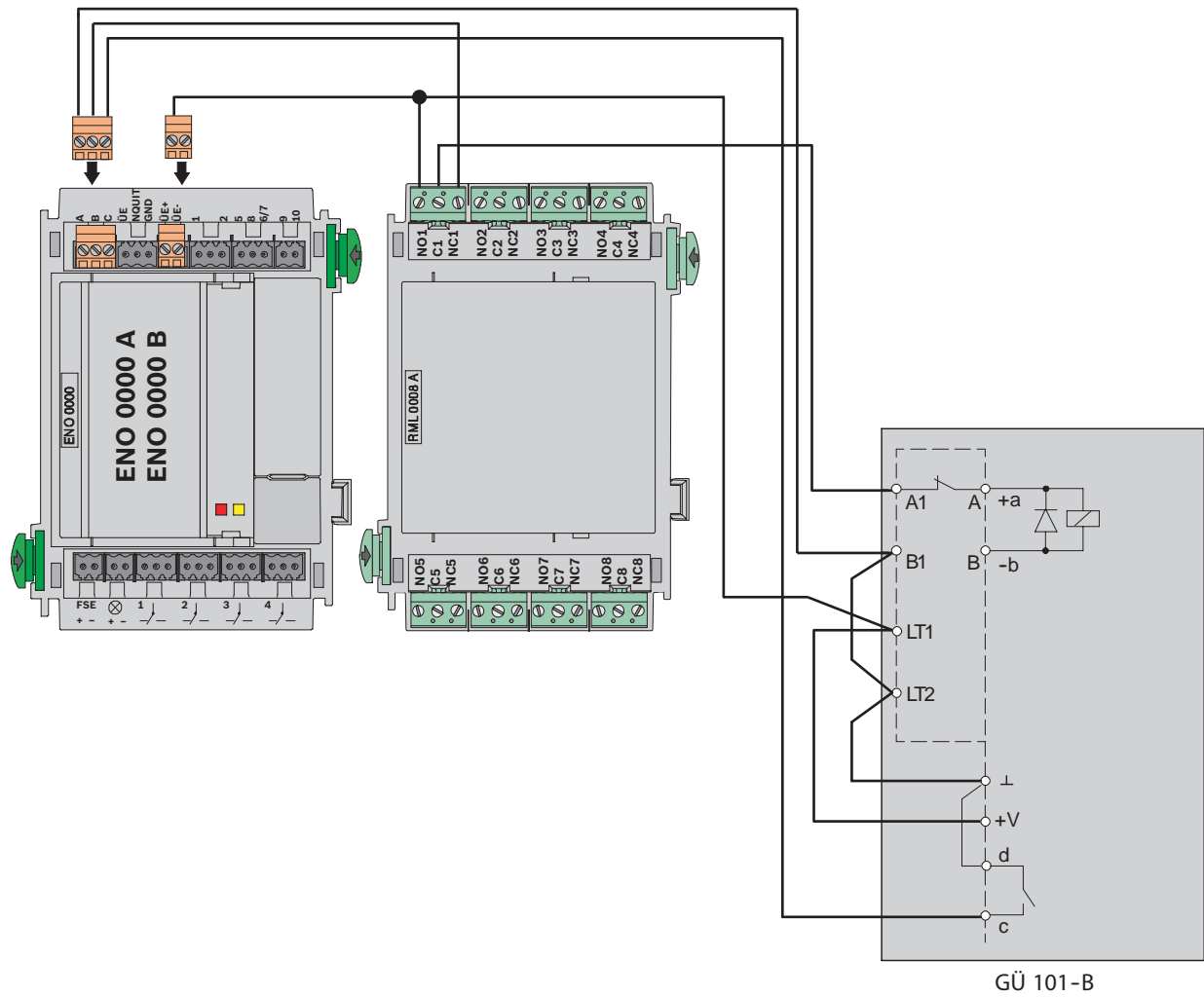
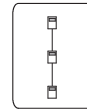
**GÜ 101-B**



GÜ 101-B

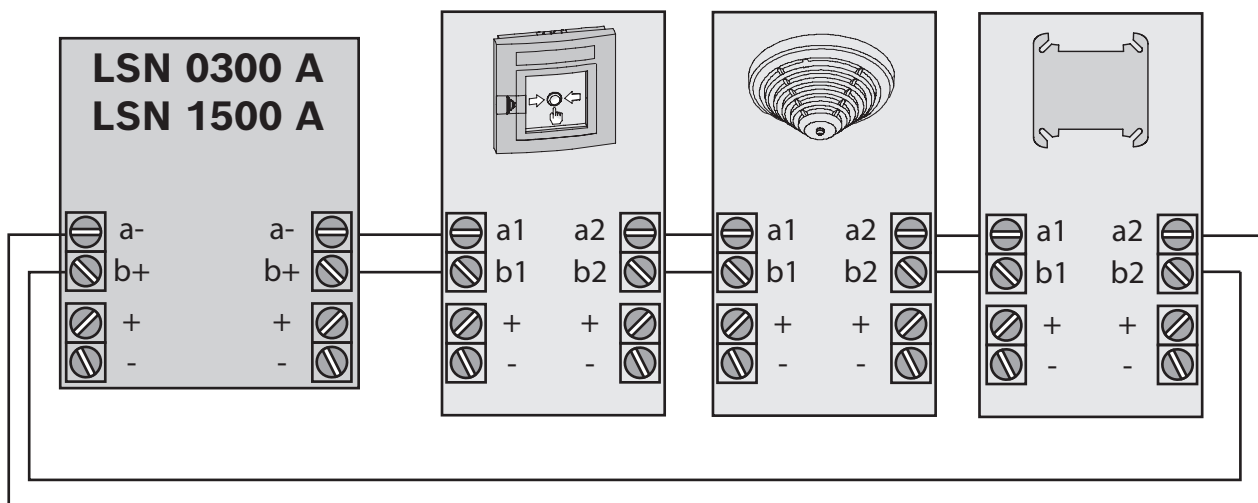
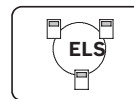


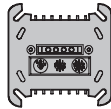
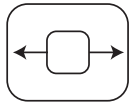
**GÜ 101-B**



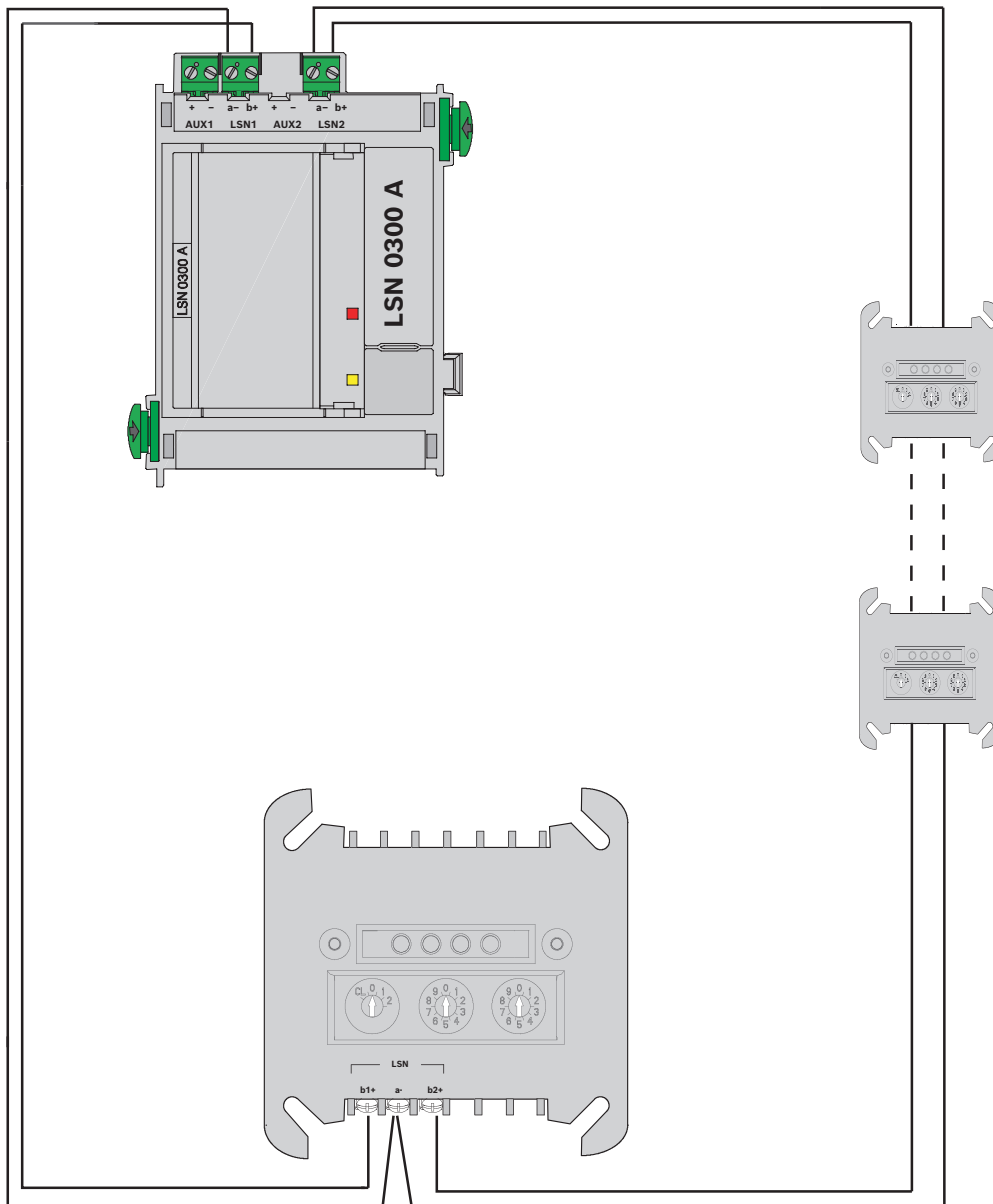
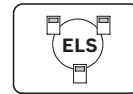
2.4.4

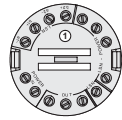
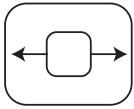
LSN 0300 A



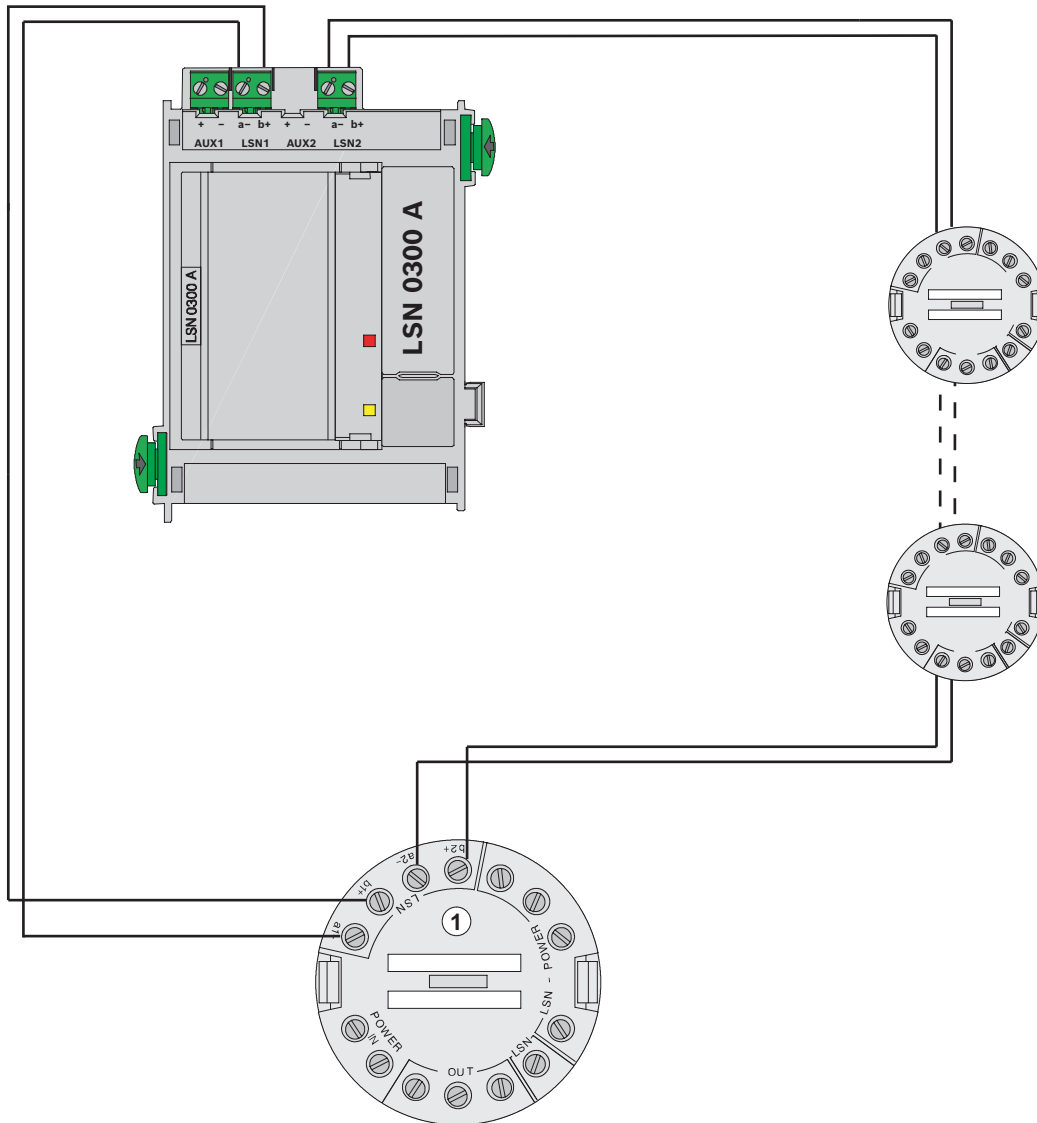
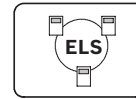


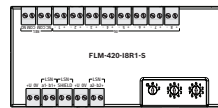
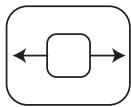
FLM-I 420-S  
 FLM-420-I2-D  
 FLM-420-O1I1-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D



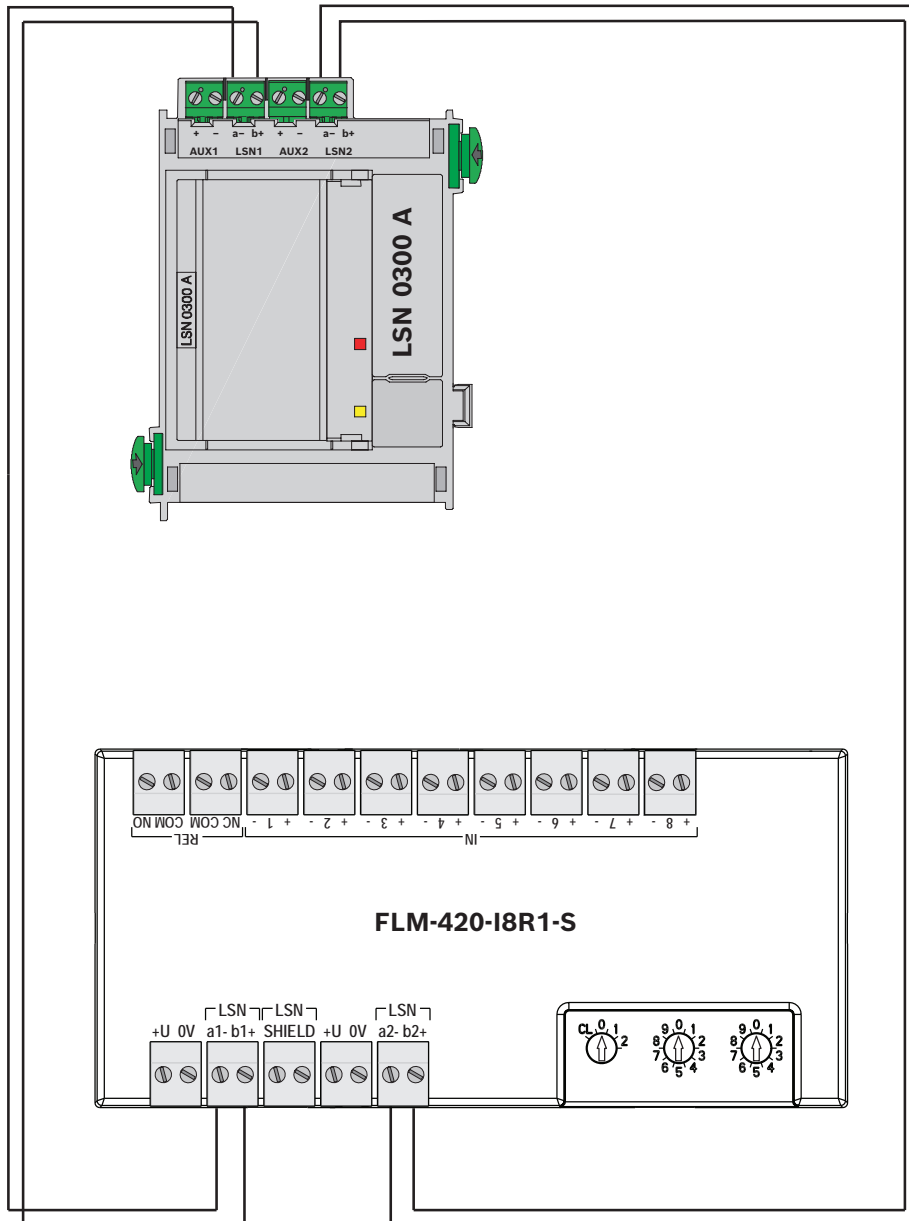
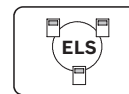


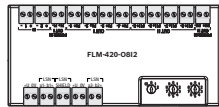
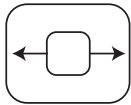
**FLM-420-I2-E/W**  
**FLM-420-RLV1-E**



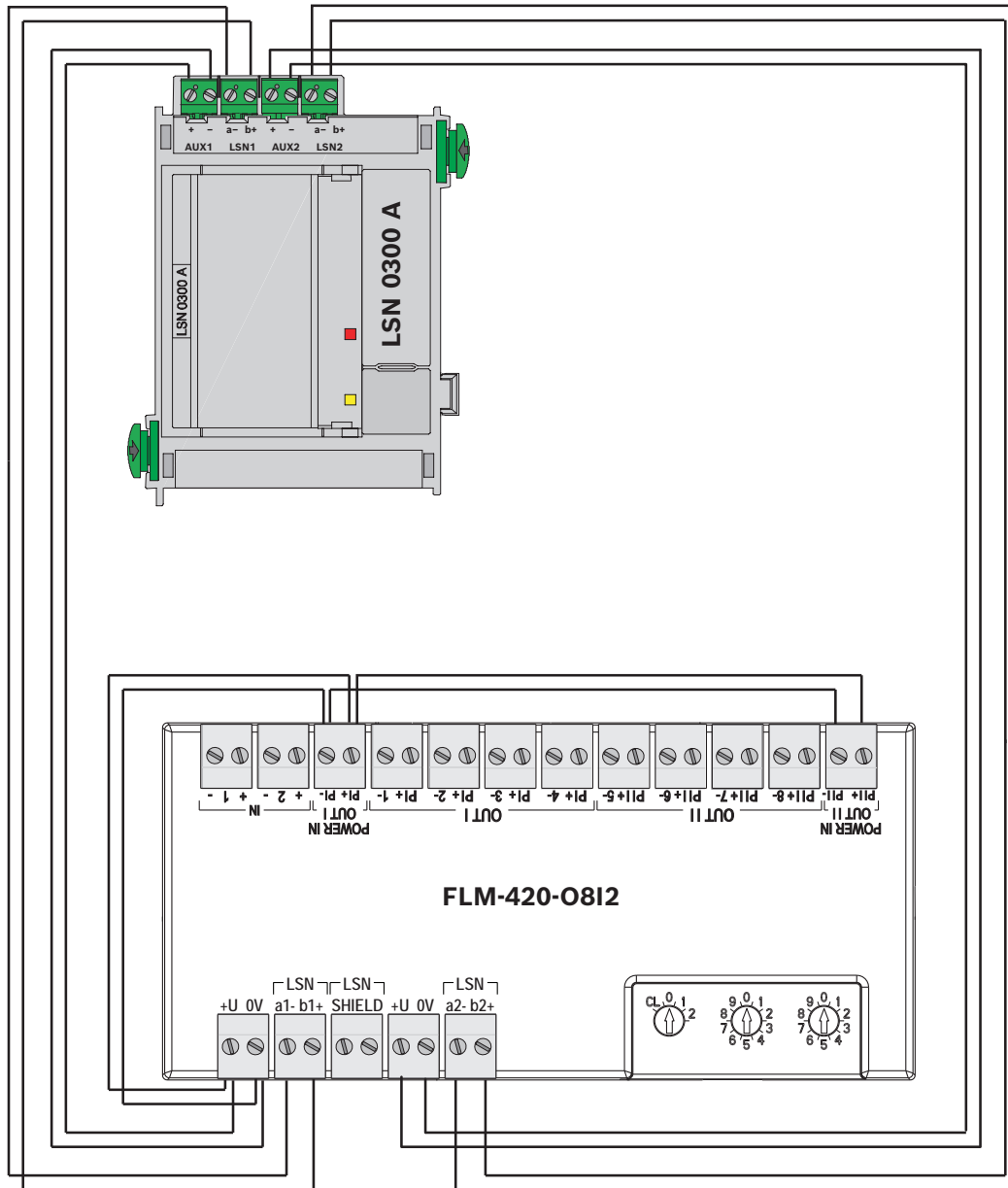
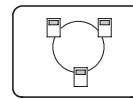


**FLM-420-18R1-S**

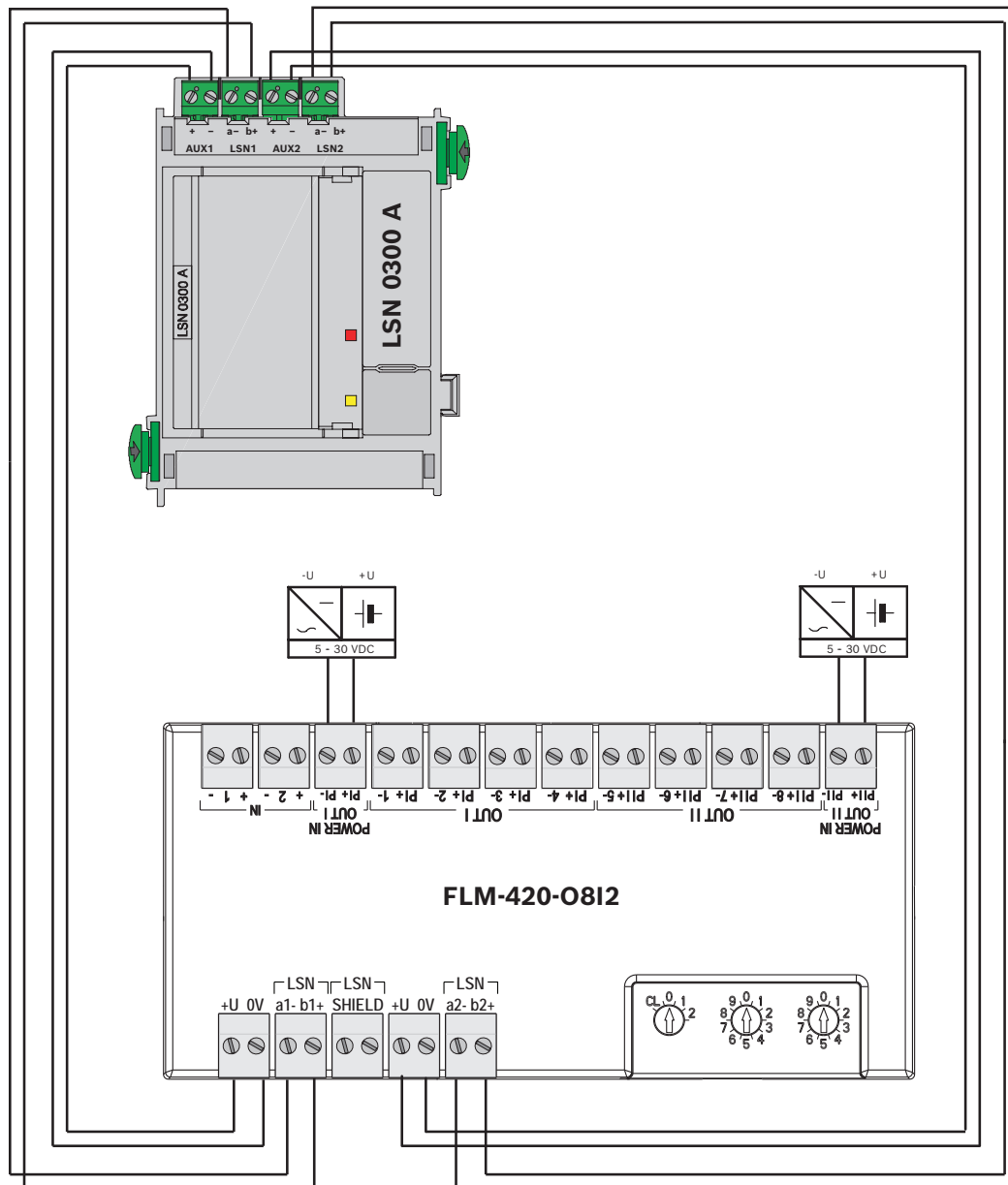
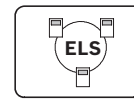
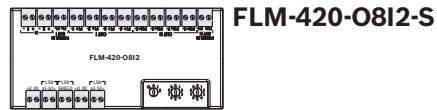
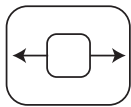


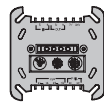
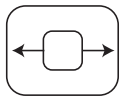


**FLM-420-0812-S**

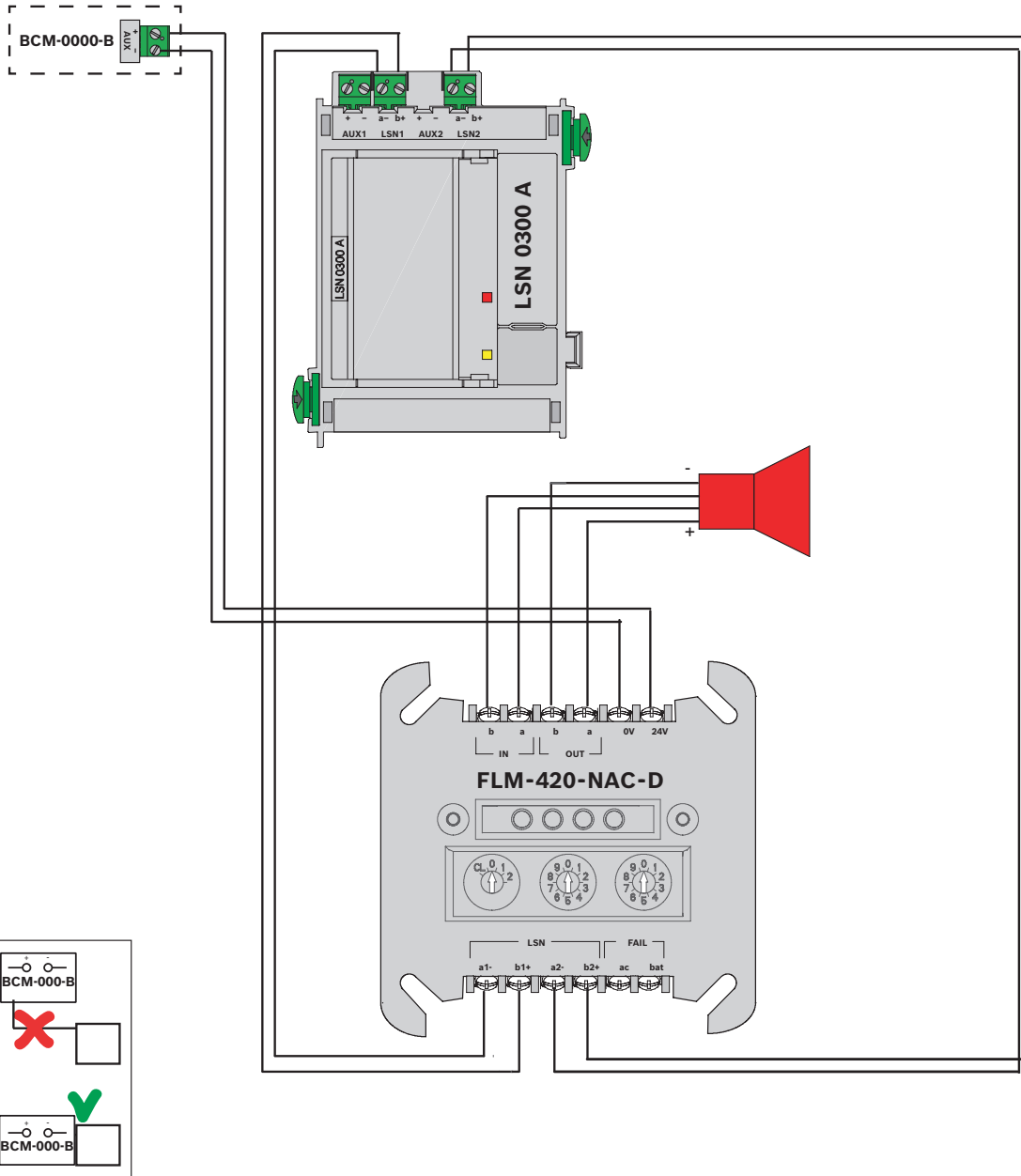
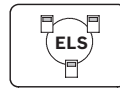


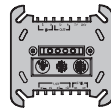
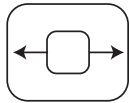




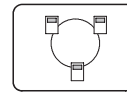


FLM-420-NAC-D/S

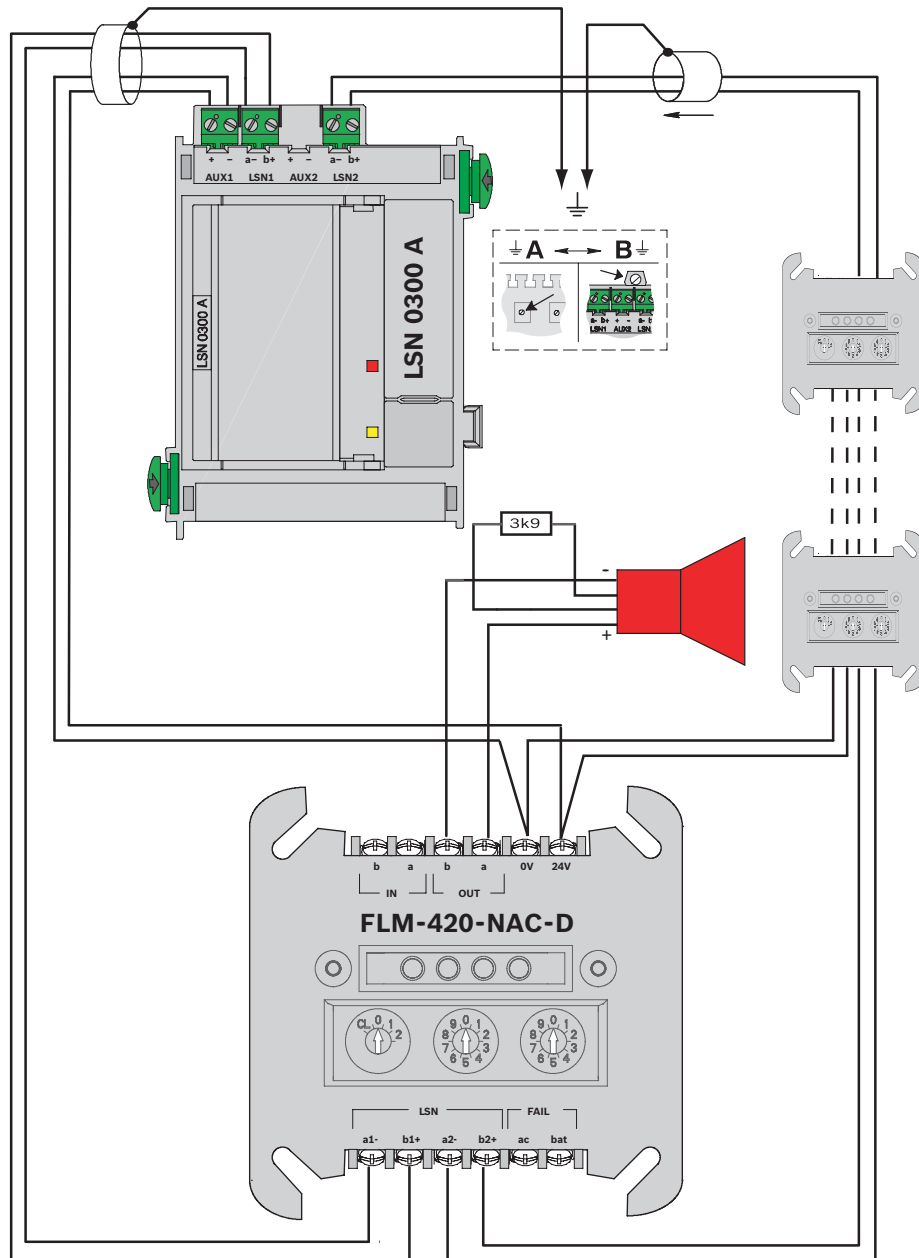


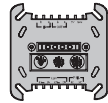
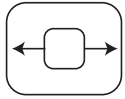


FLM-420-NAC-D/S

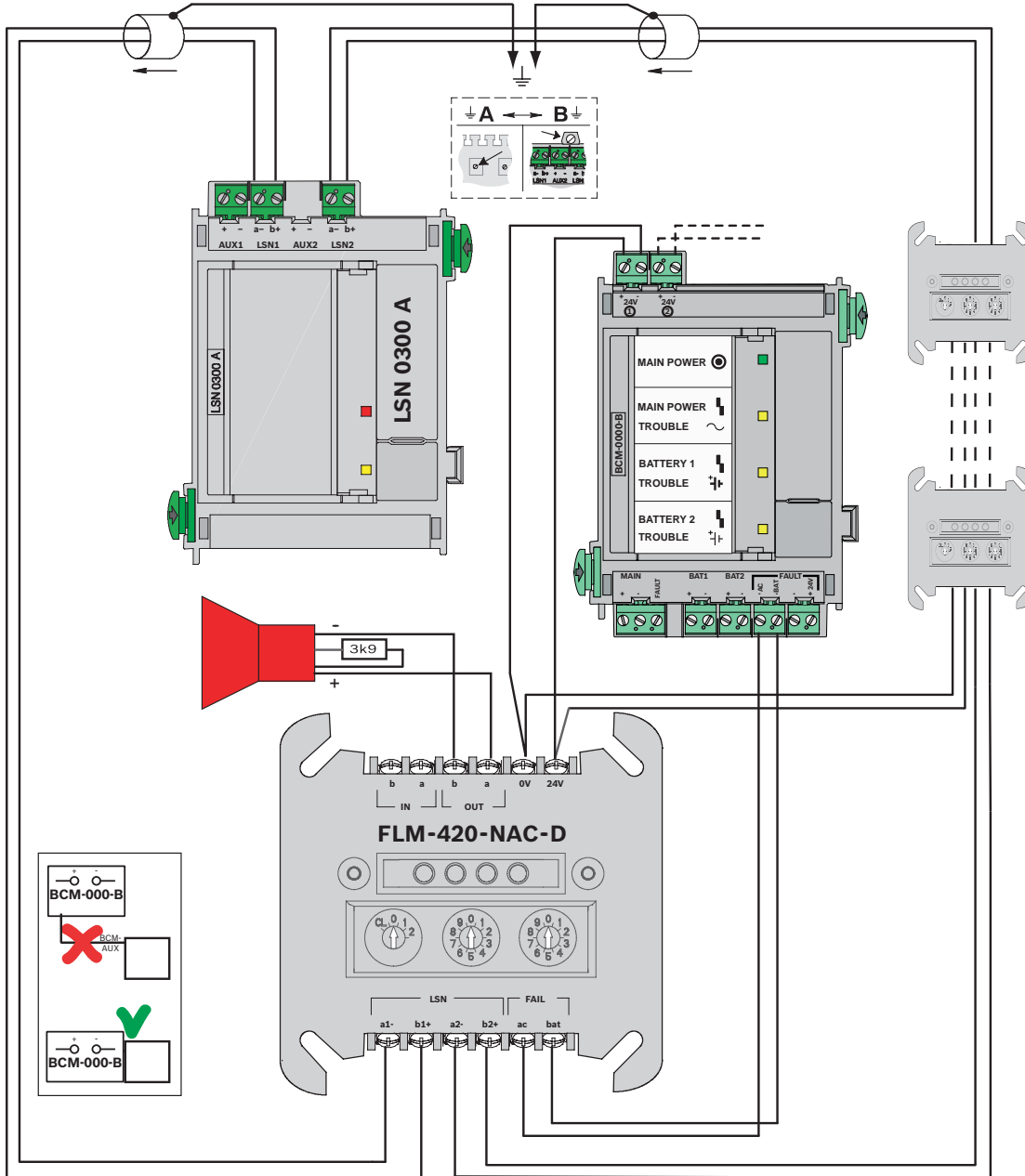
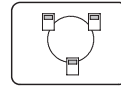


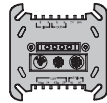
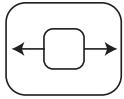
EN 54-2



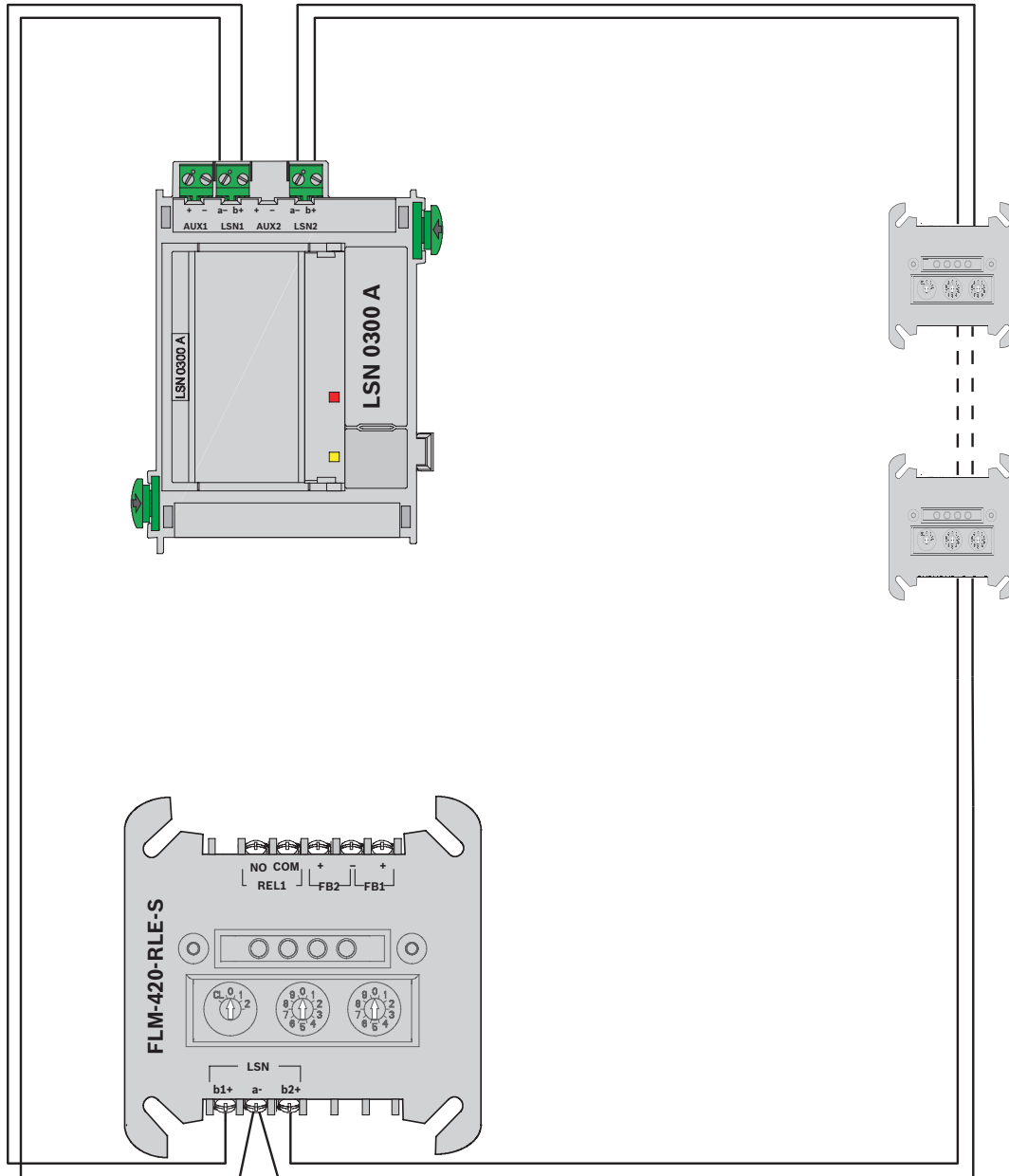
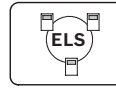


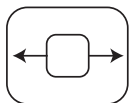
FLM-420-NAC-D/S



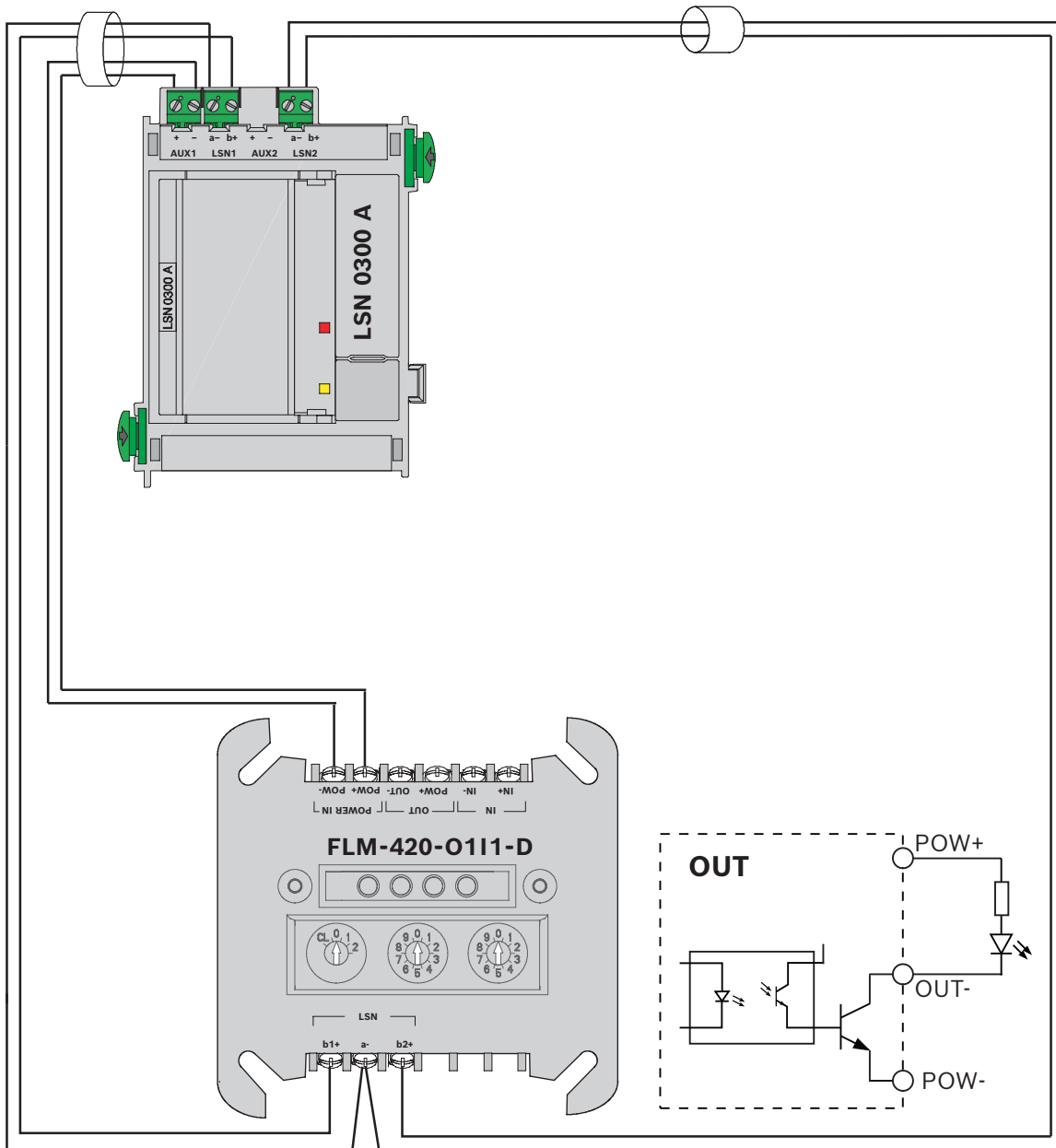
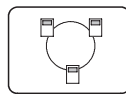


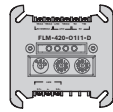
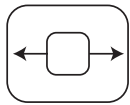
FLM-420-RLE-S



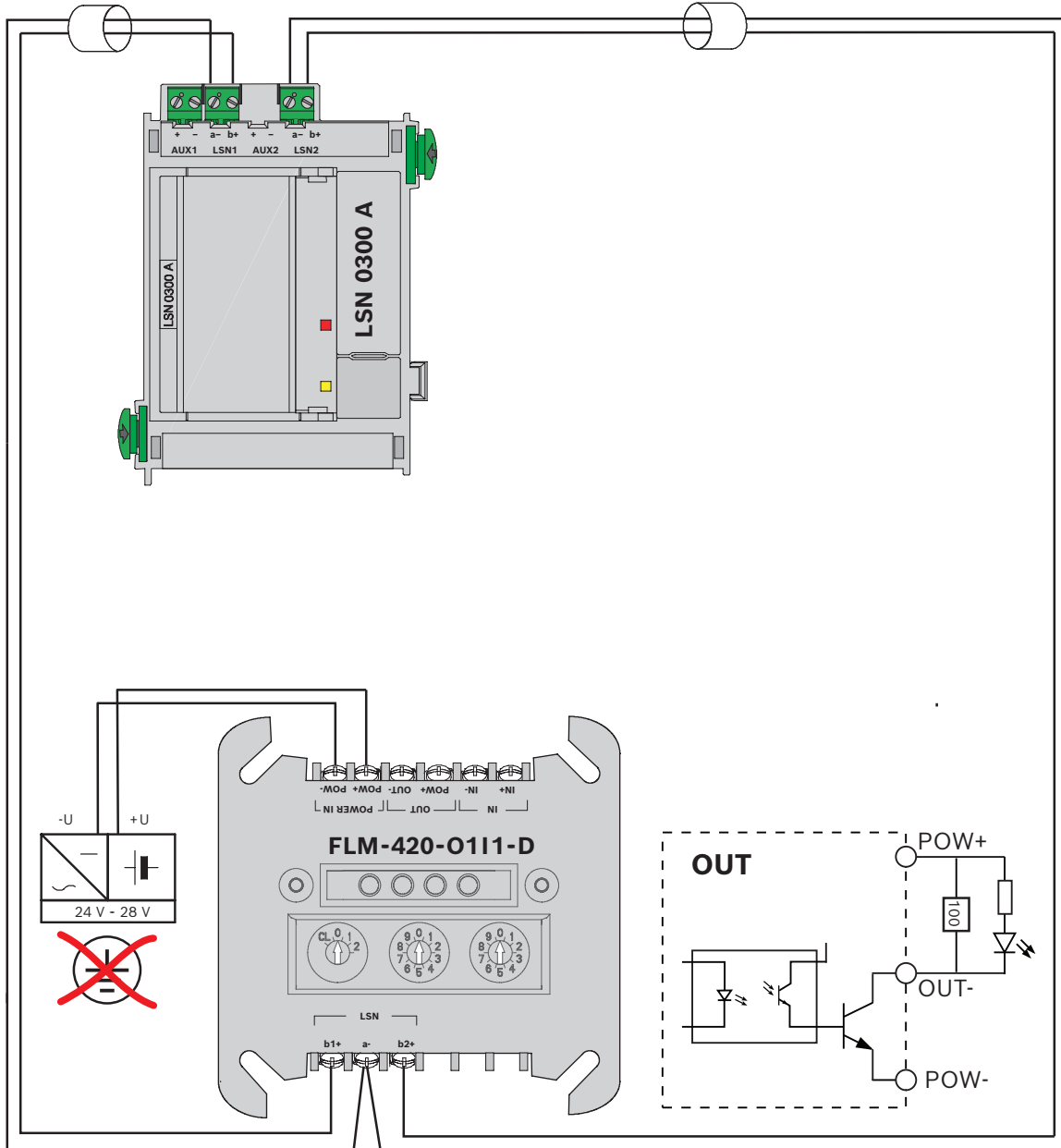
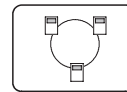


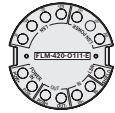
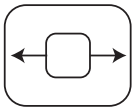
**FLM-420-O111-D**



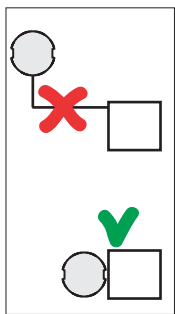
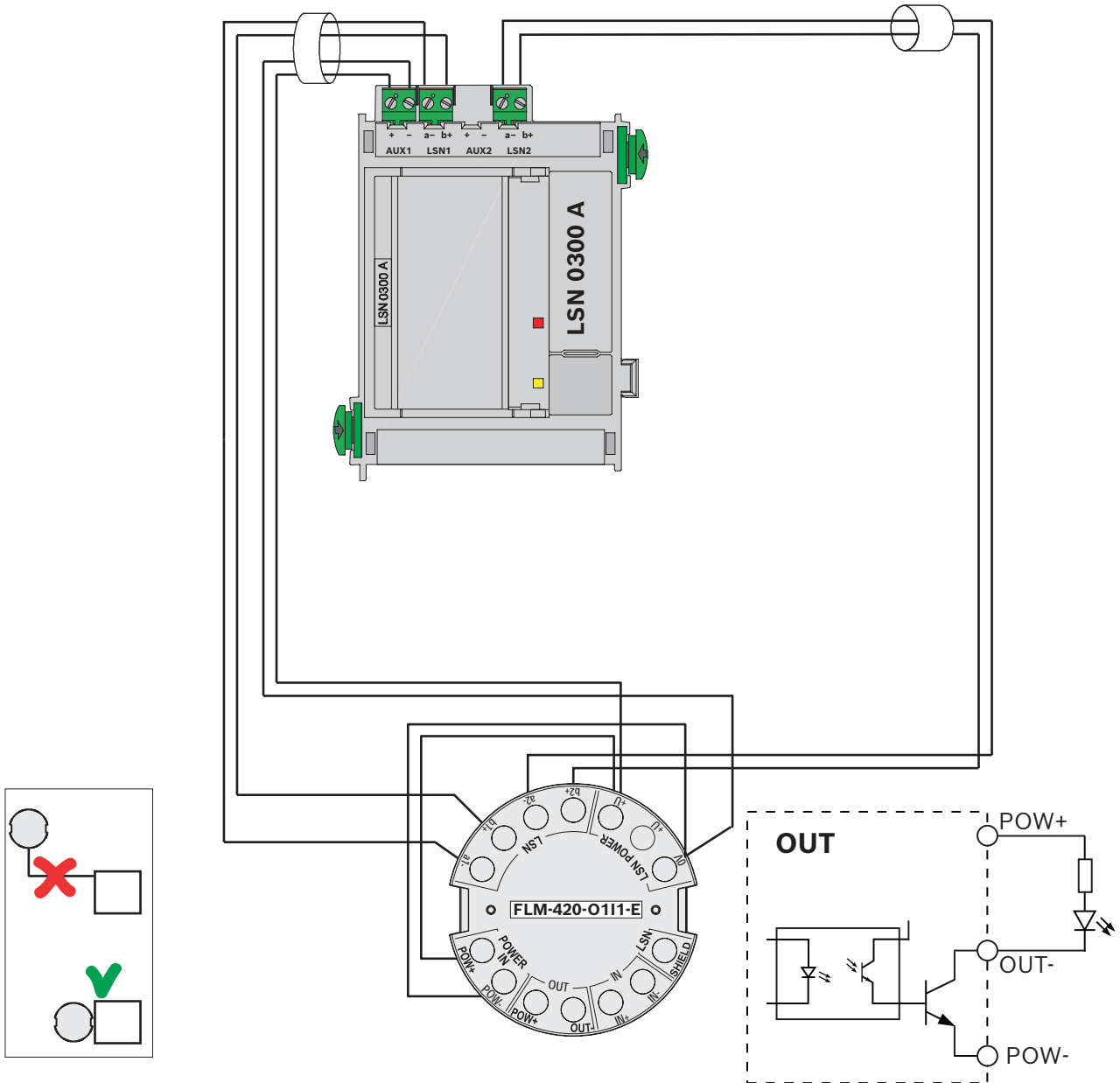
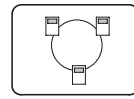


**FLM-420-O111-D**

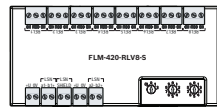
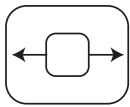




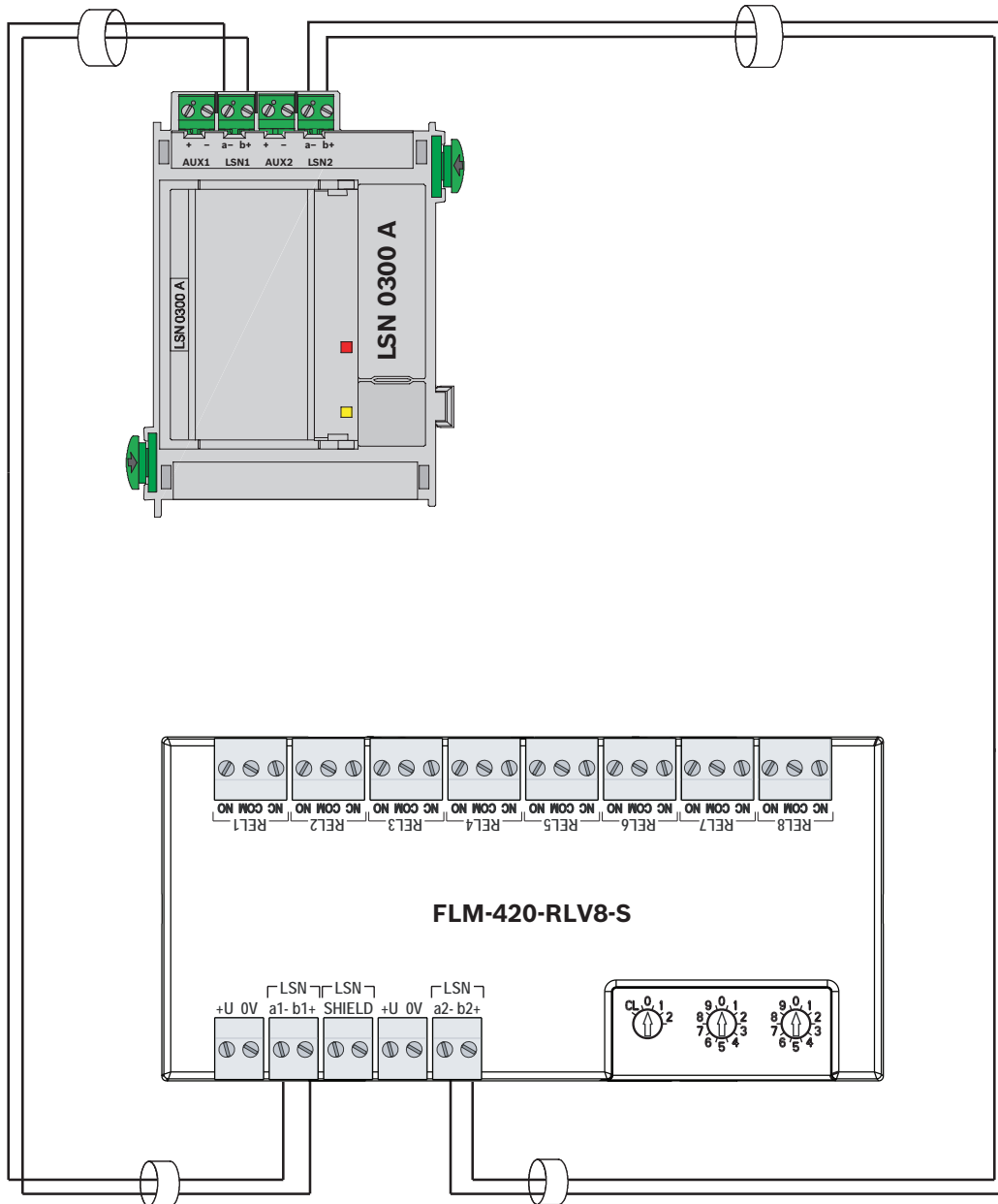
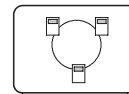
**FLM-420-O111-E**





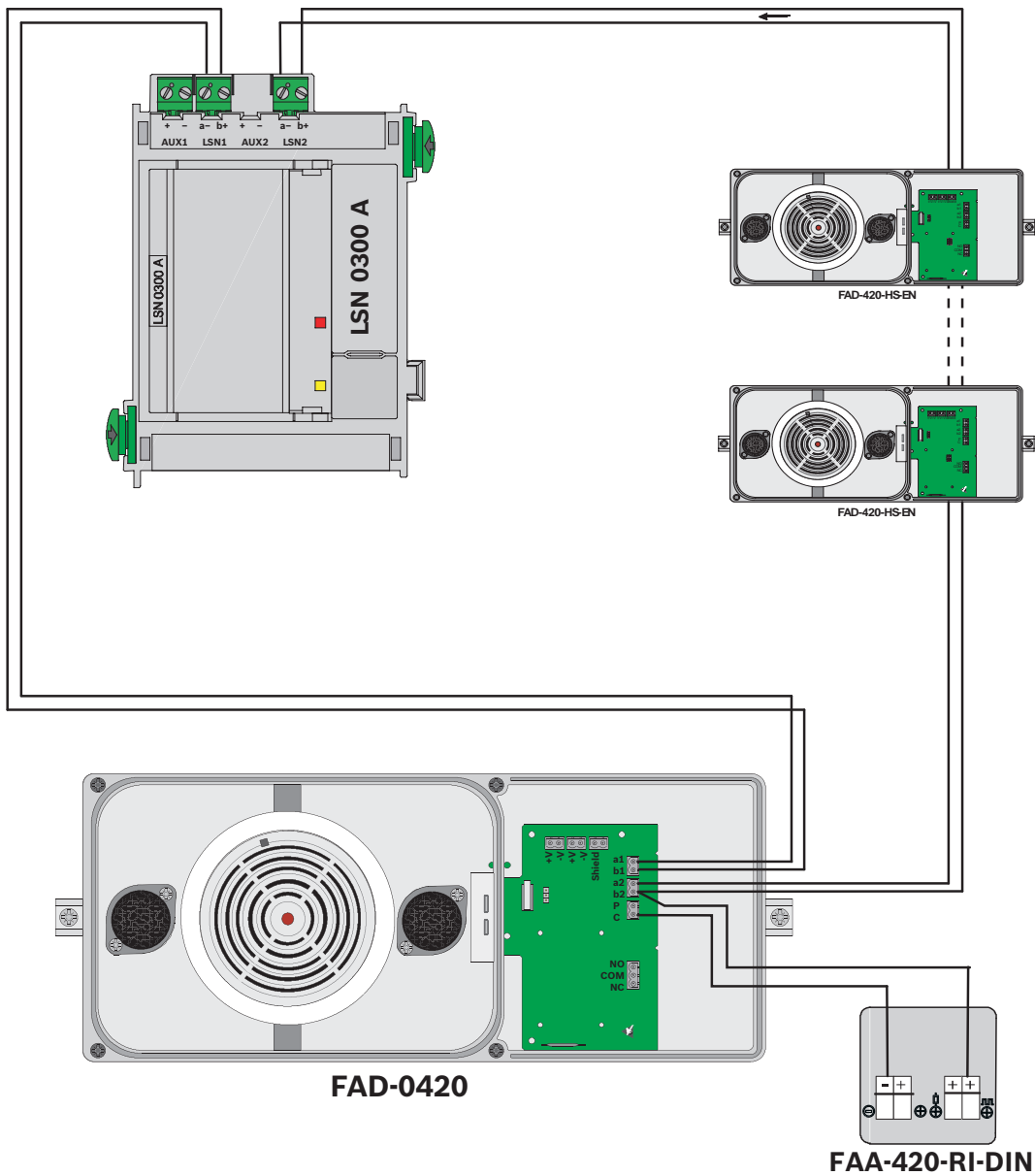


**FLM-420-RLV8-S**



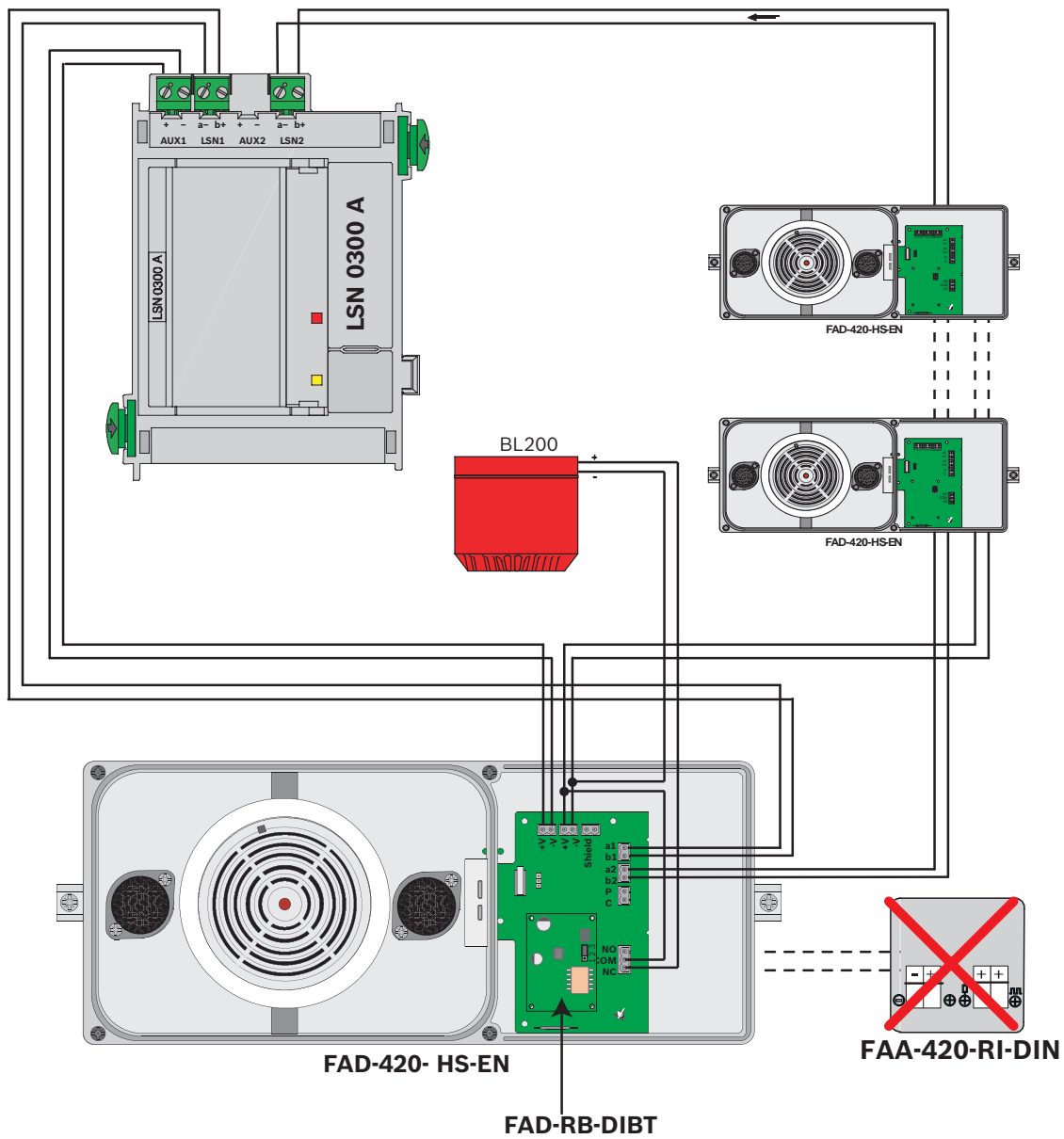


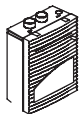
FAD-0420



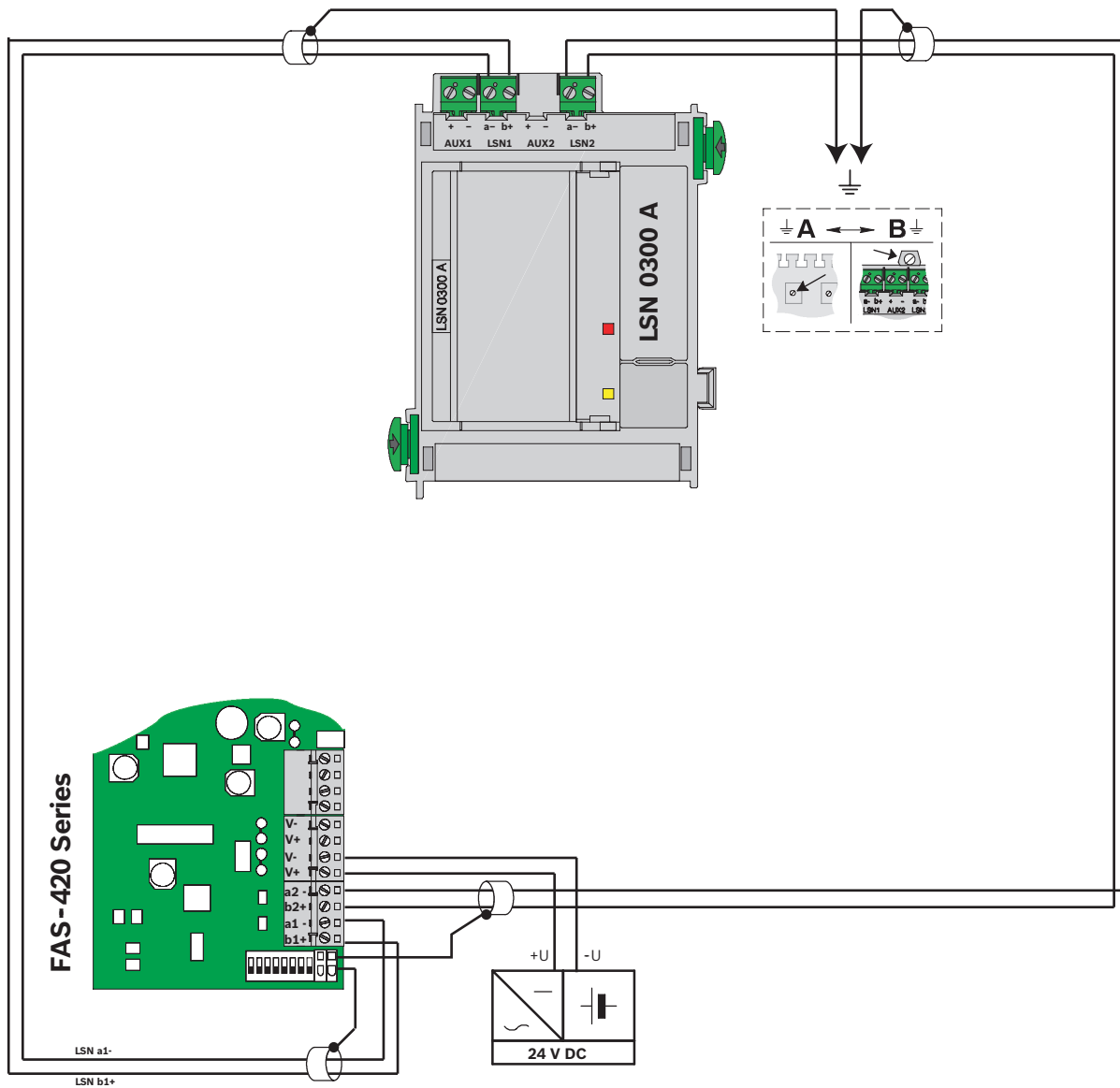


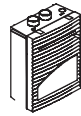
**FAD-420-HS-EN**



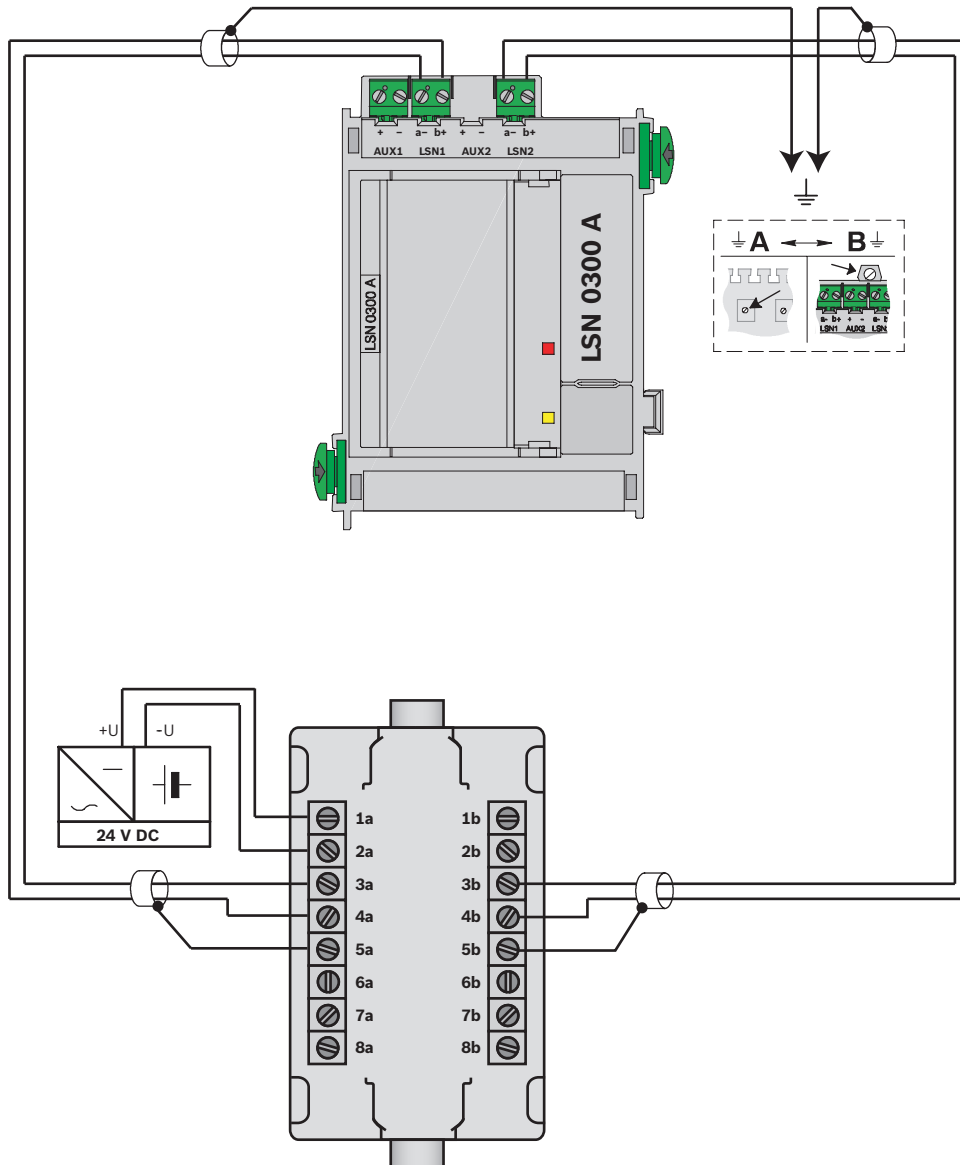


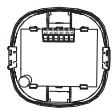
**FAS-420 Series**



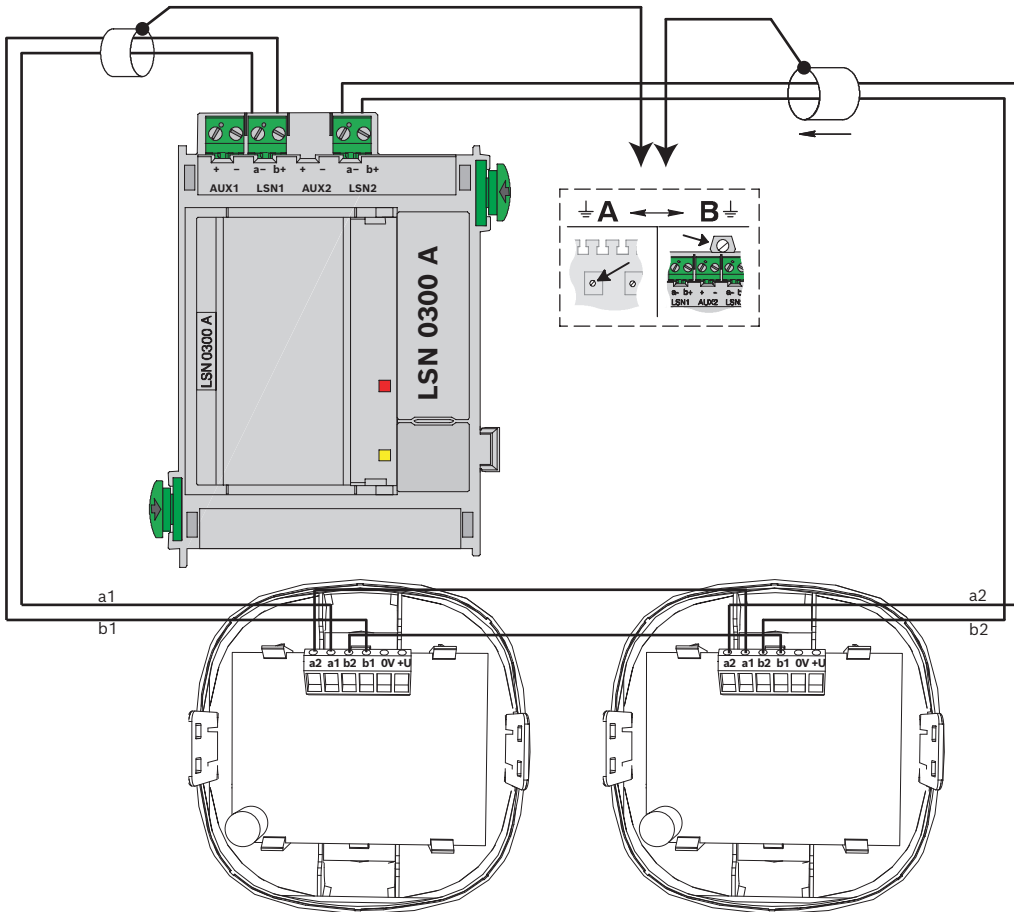
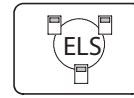


FAS-420-TM Series





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

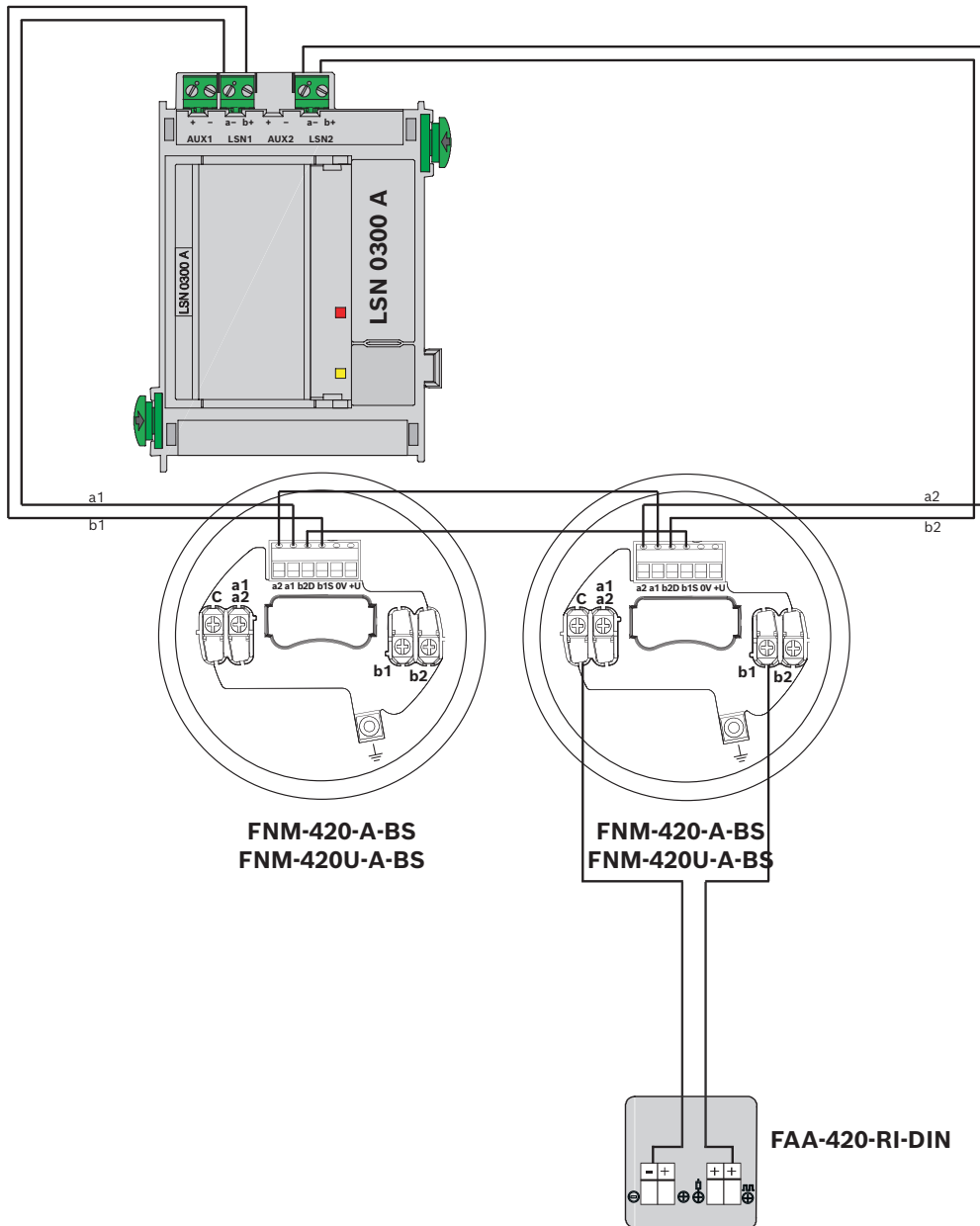
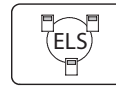


**FNM-420-A/-B**  
**FNM-420U-A/-B**  
**FNM-420V-A**

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



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



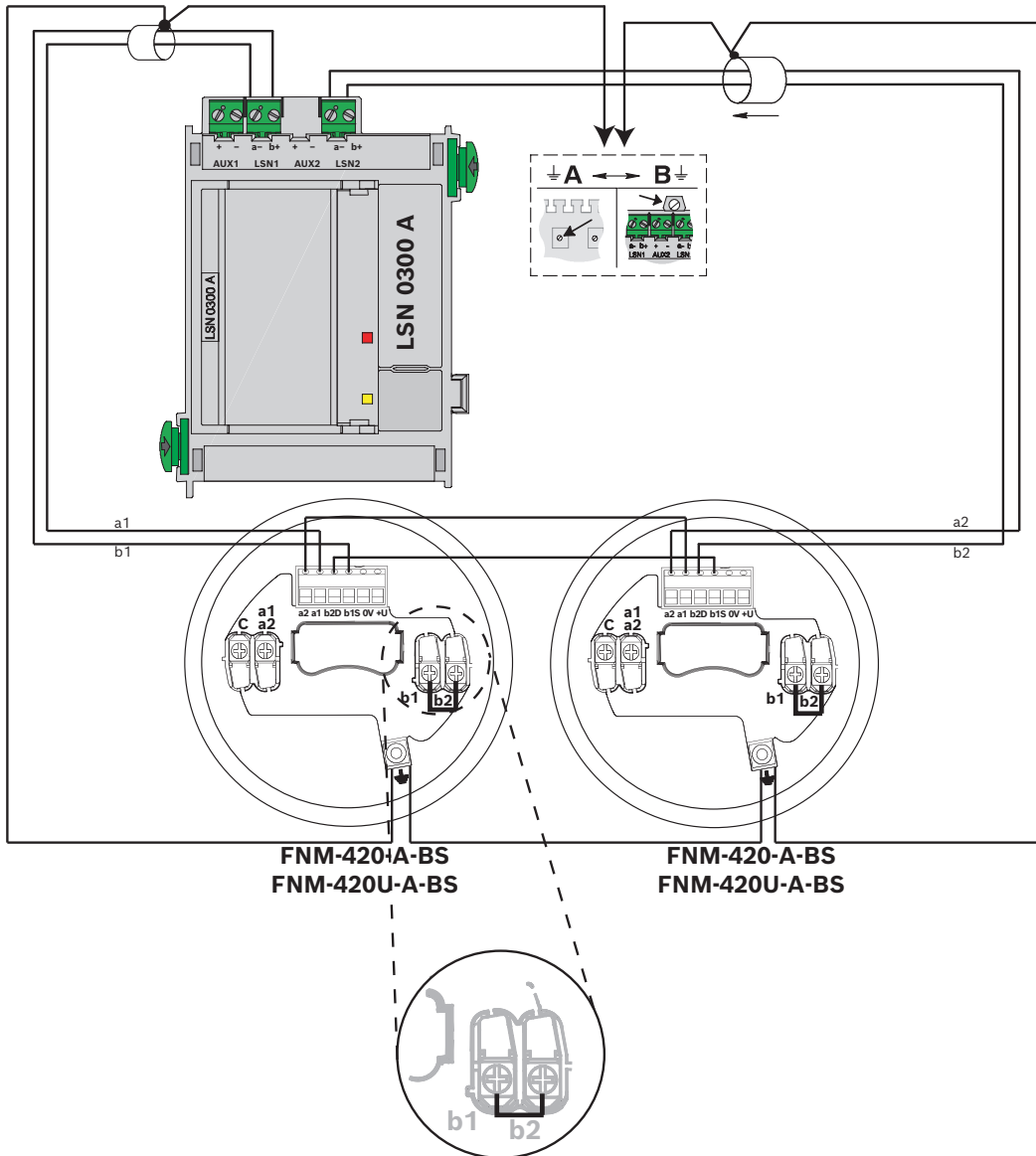
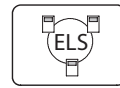
**FNM-420-A-BS**  
**FNM-420U-A-BS**

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

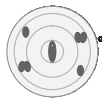
**FAA-420-RI-DIN**



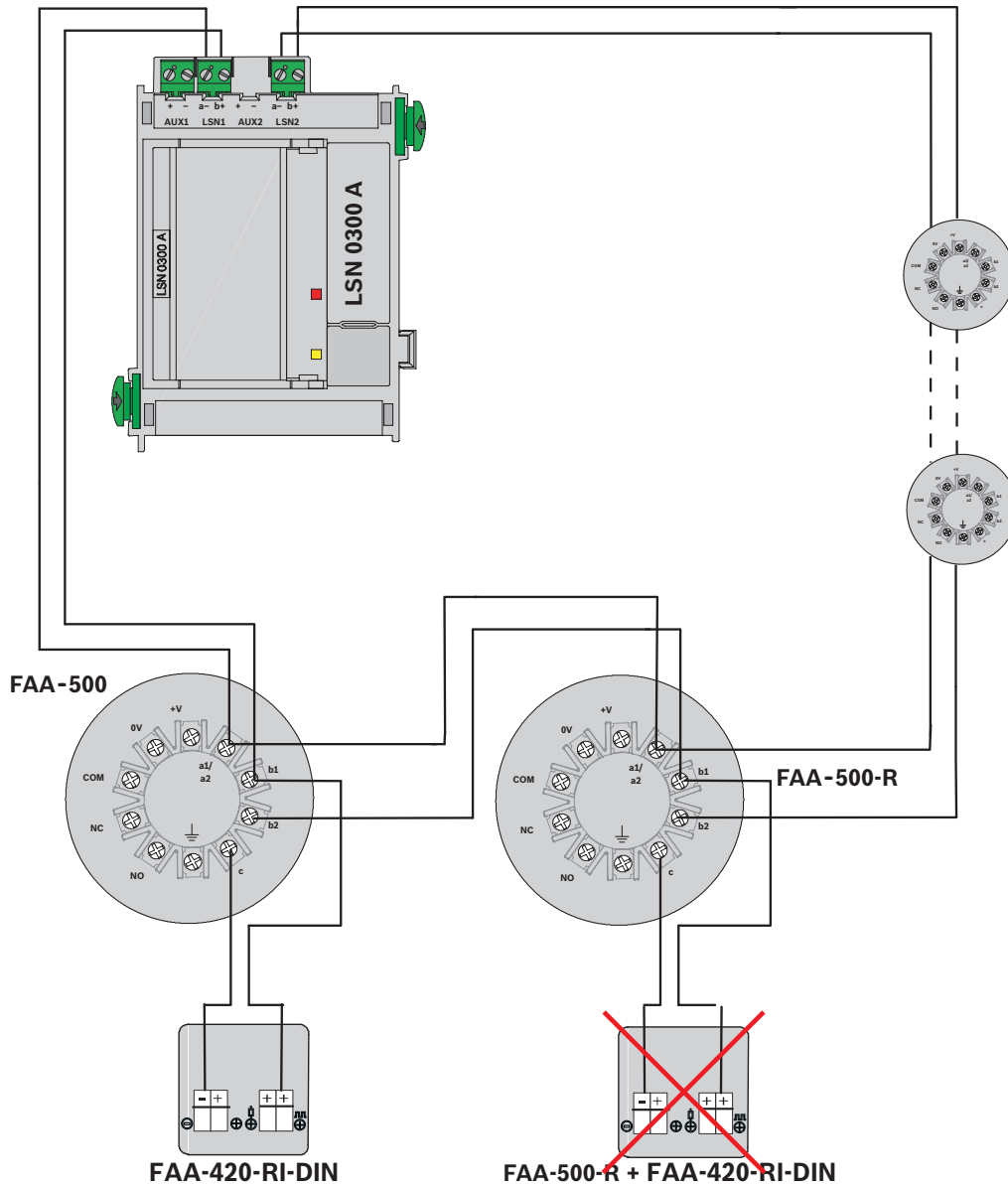
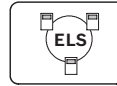
**FNM-420-A-BS**  
**FNM-420U-A-BS**

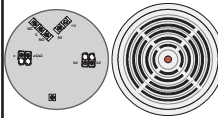




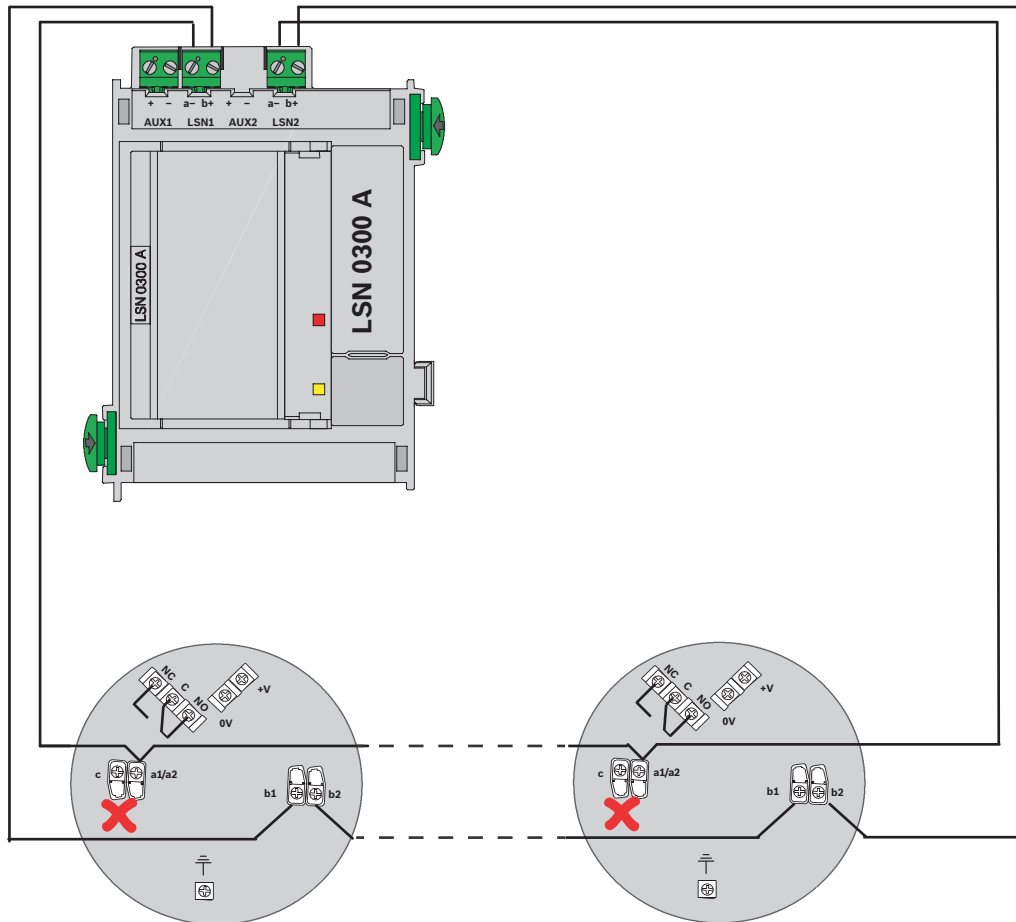
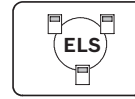


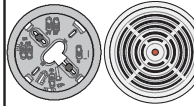
FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P



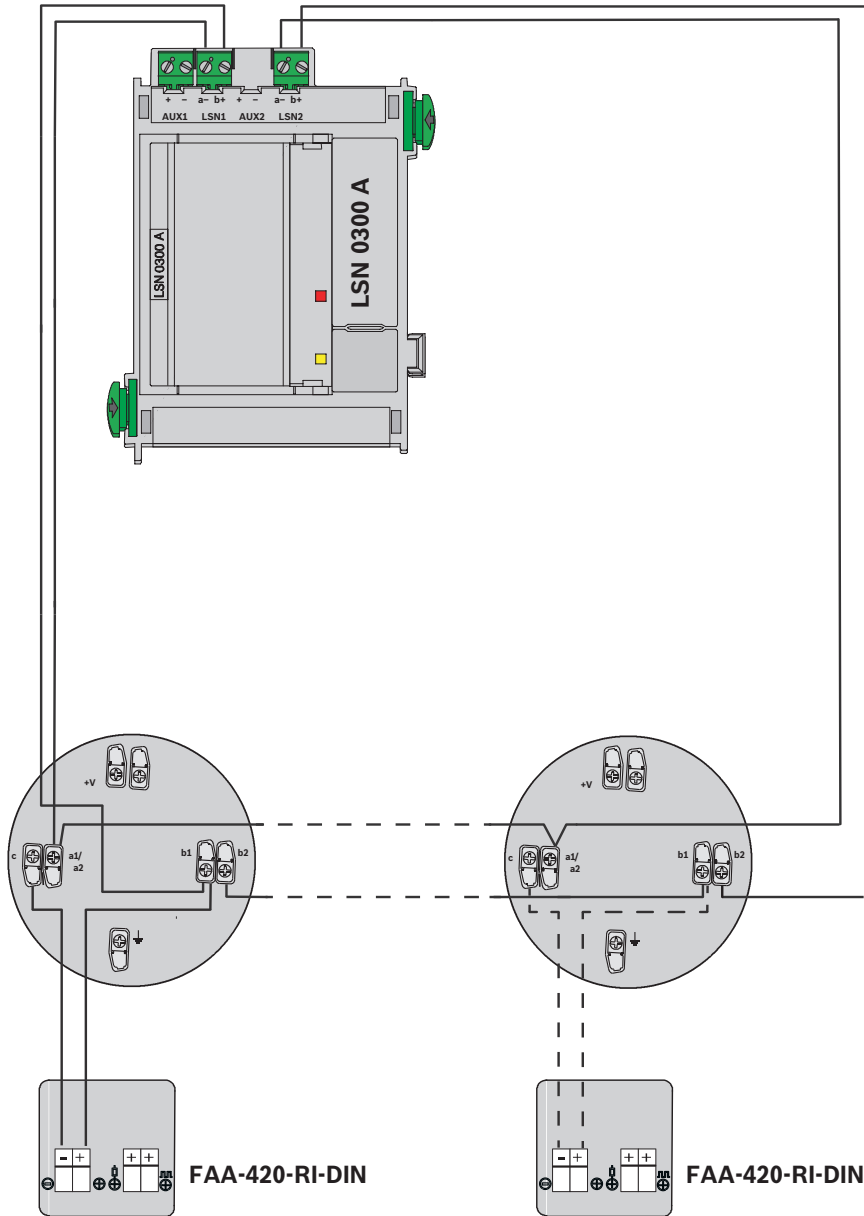
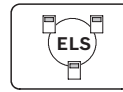


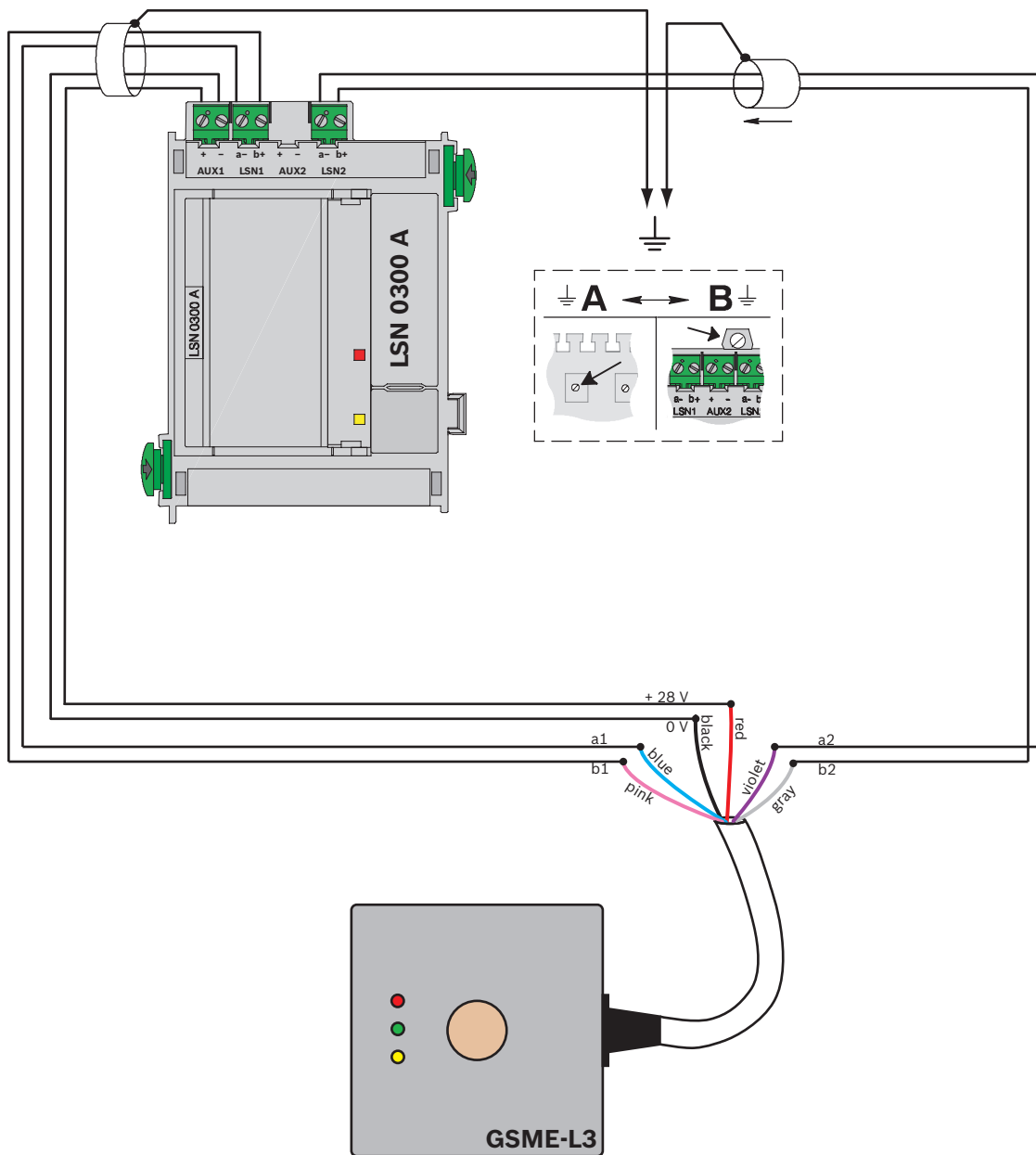
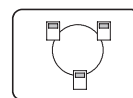
**FAA-MSR-420**  
**FAP-425-O, FAP-425-O-R**  
**FAP-425-OT, FAP-425-OT-R**  
**FAP-425-T-R**  
**FAP-425-DO-R, FAP-425-DOT-R**  
**FAP-425-DOTC-R, FAP-425-DOTCO-R**

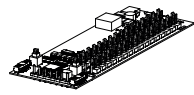




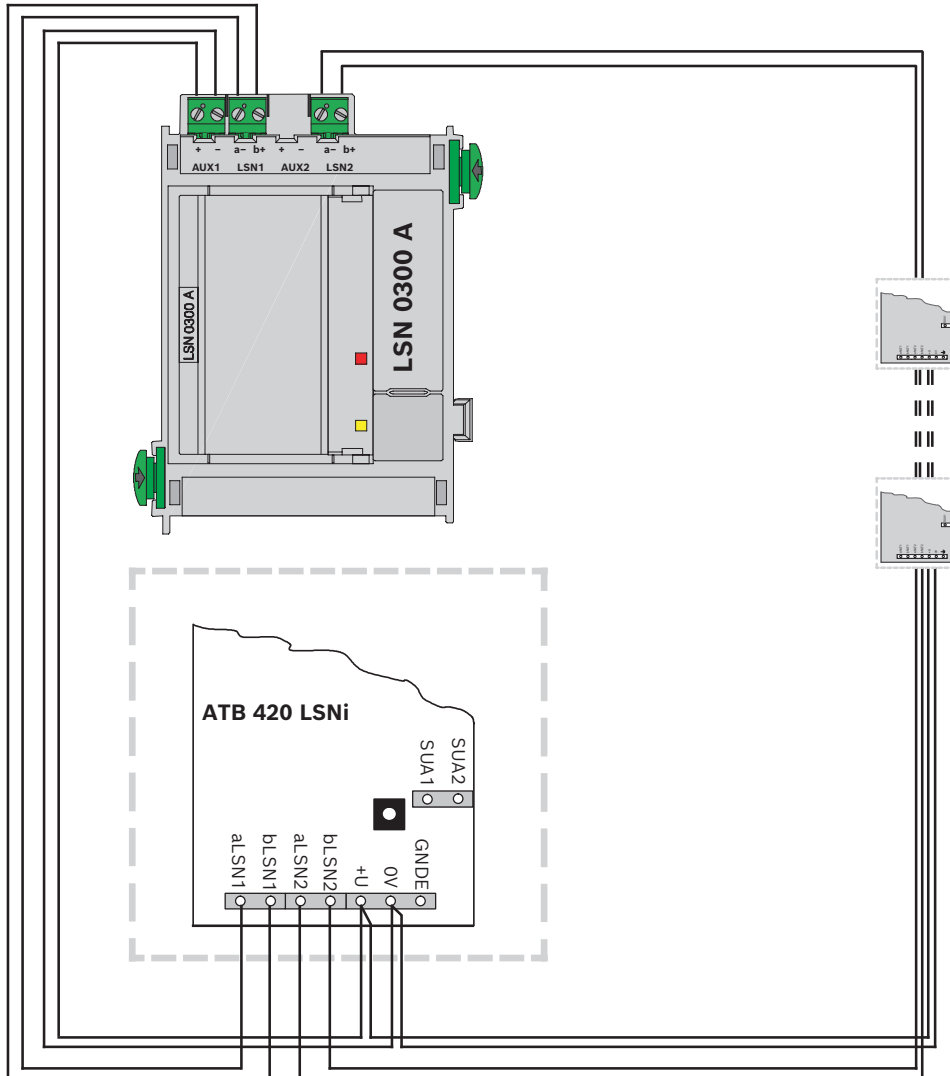
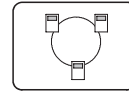
MS 400, MS 400 B  
 FAP-425-O, FAP-425-O-R  
 FAP-425-OT, FAP-425-OT-R  
 FAP-425-T-R  
 FAP-425-DO-R, FAP-425-DOT-R  
 FAP-425-DOTC-R, FAP-425-DOTCO-R





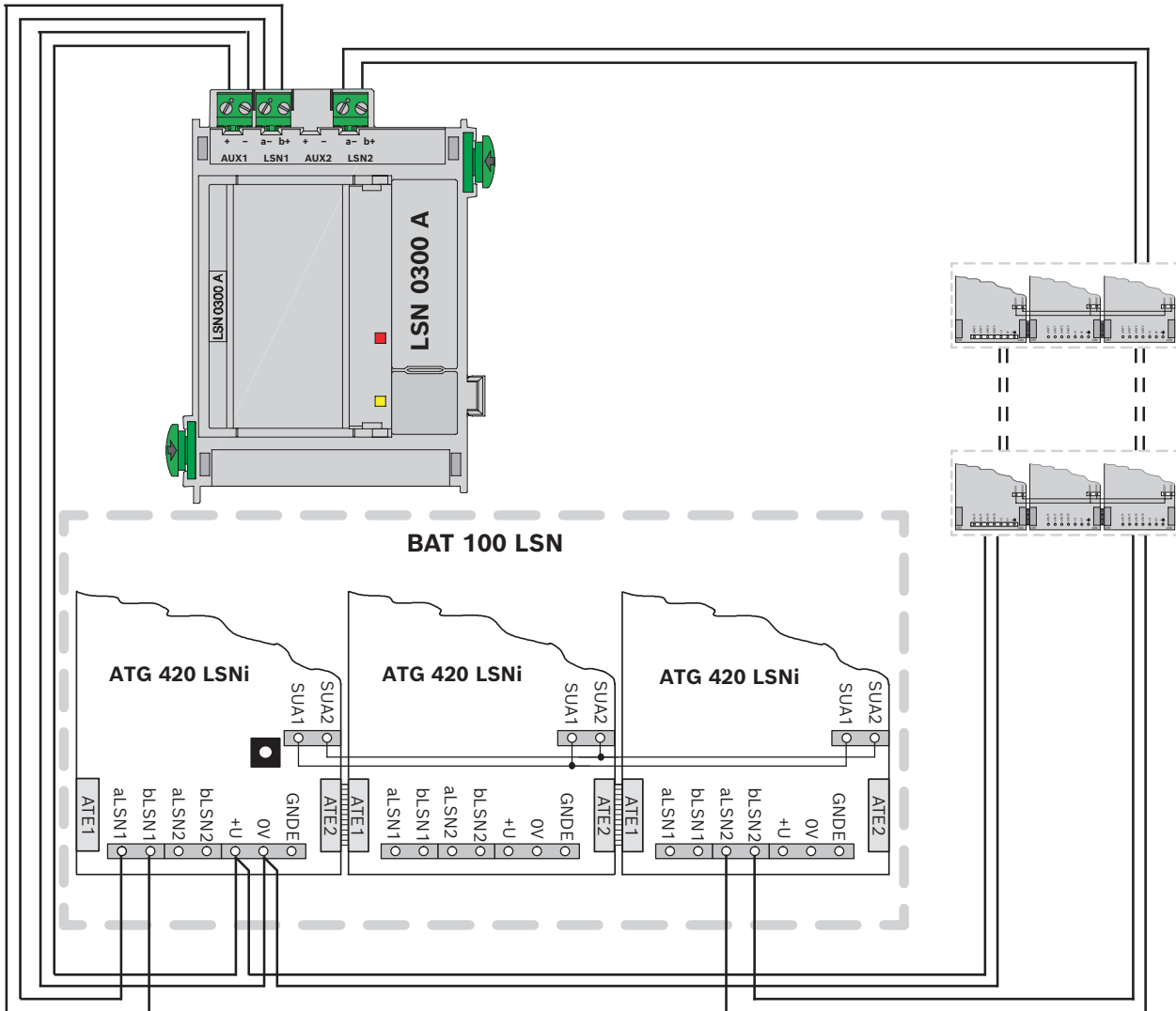
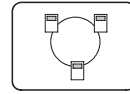


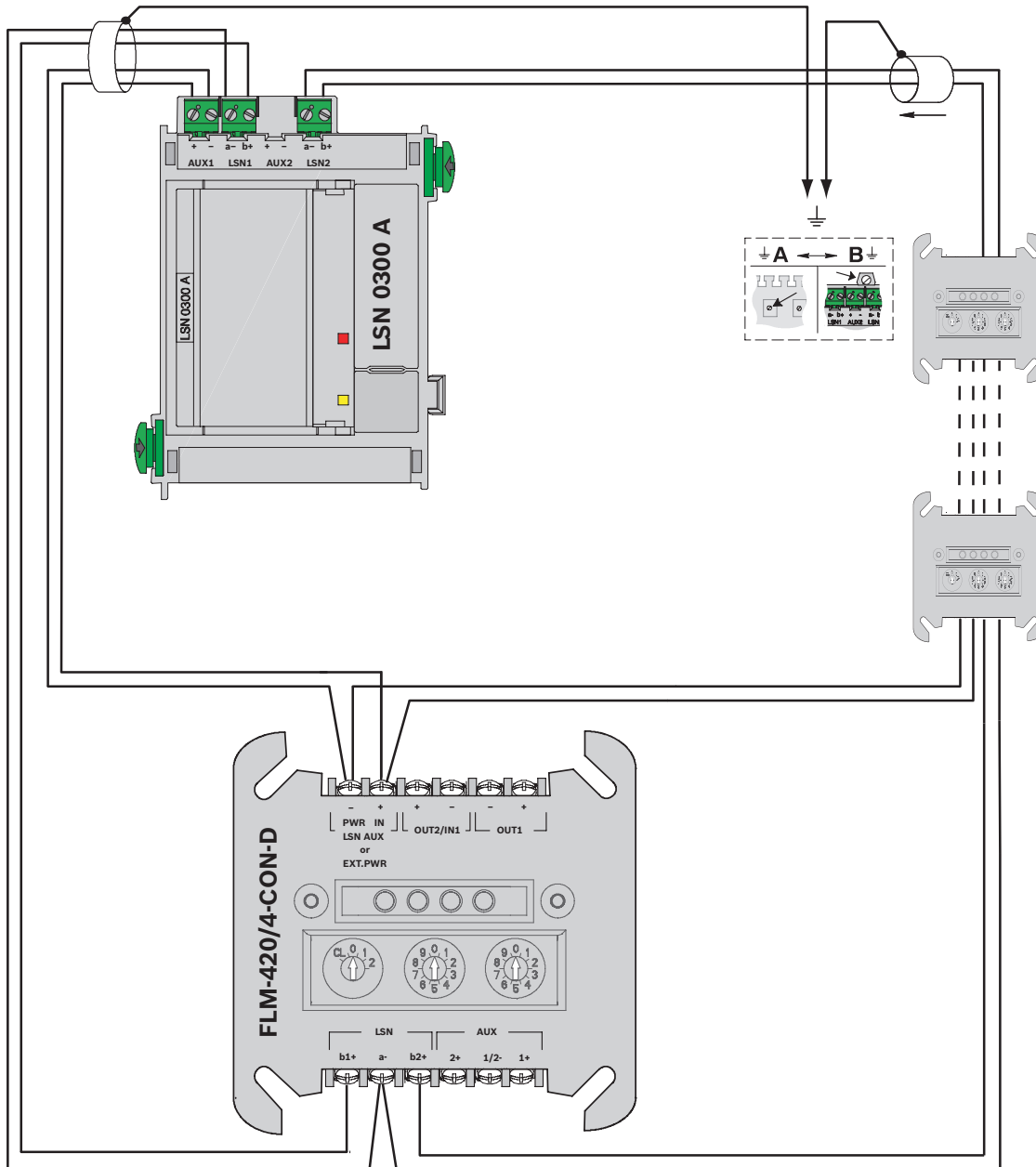
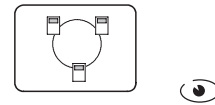
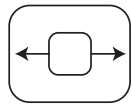
ATB 420 LSNi





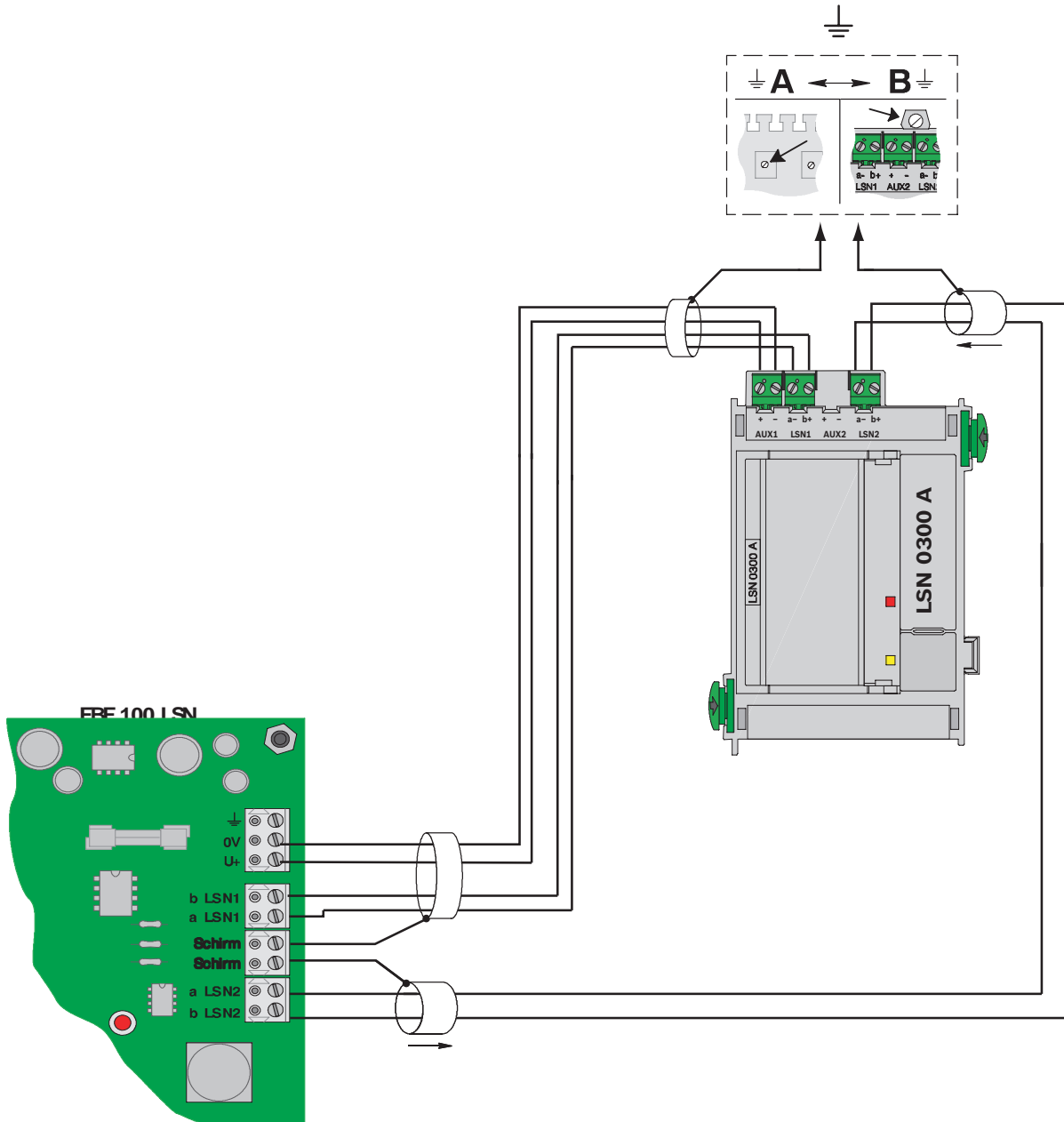
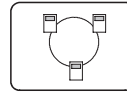
**BAT 100 LSN**  
**ATG 420 LSNi**



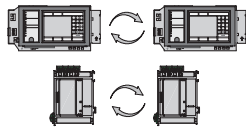




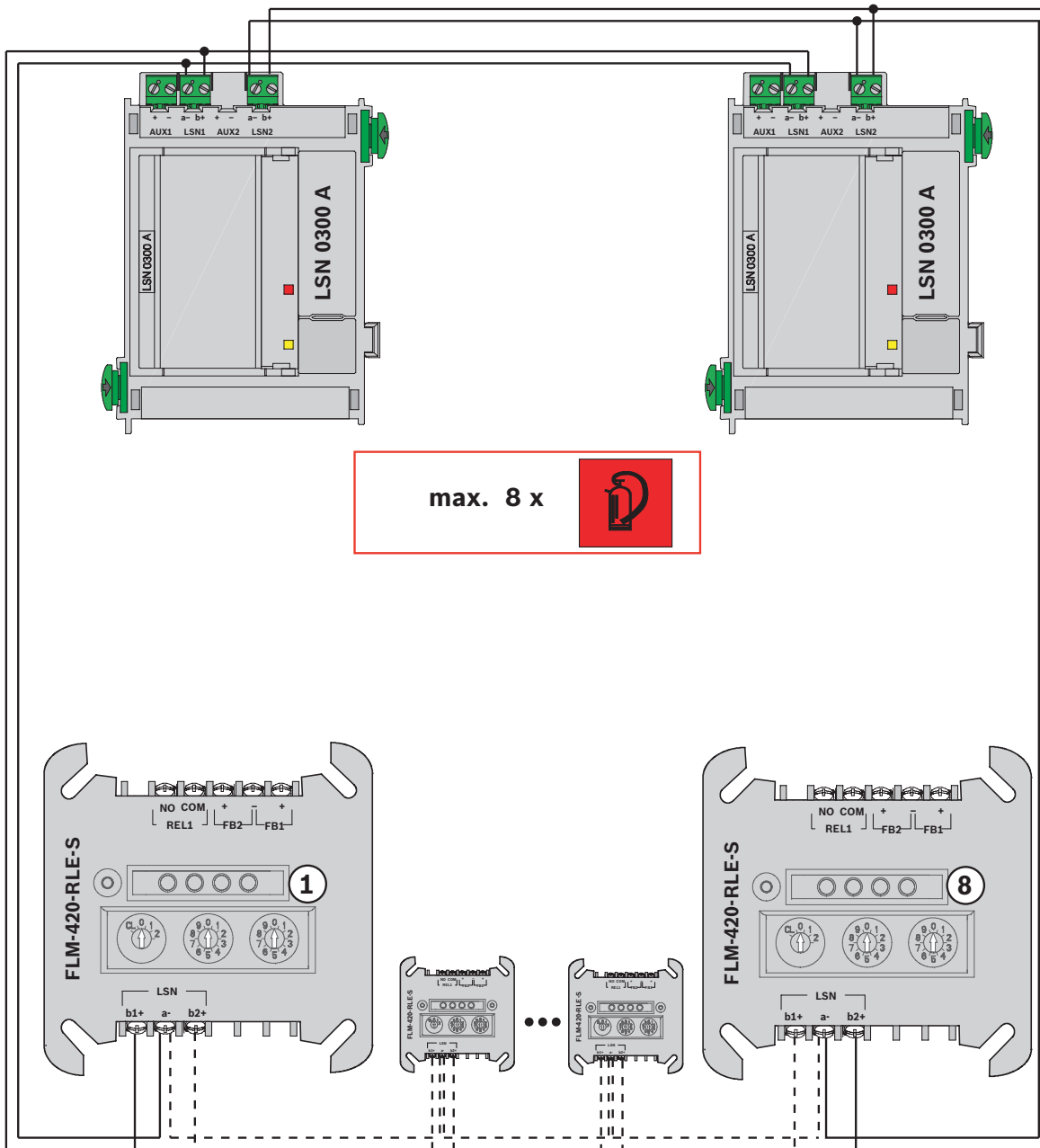
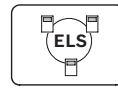
**FBF 100 LSN**





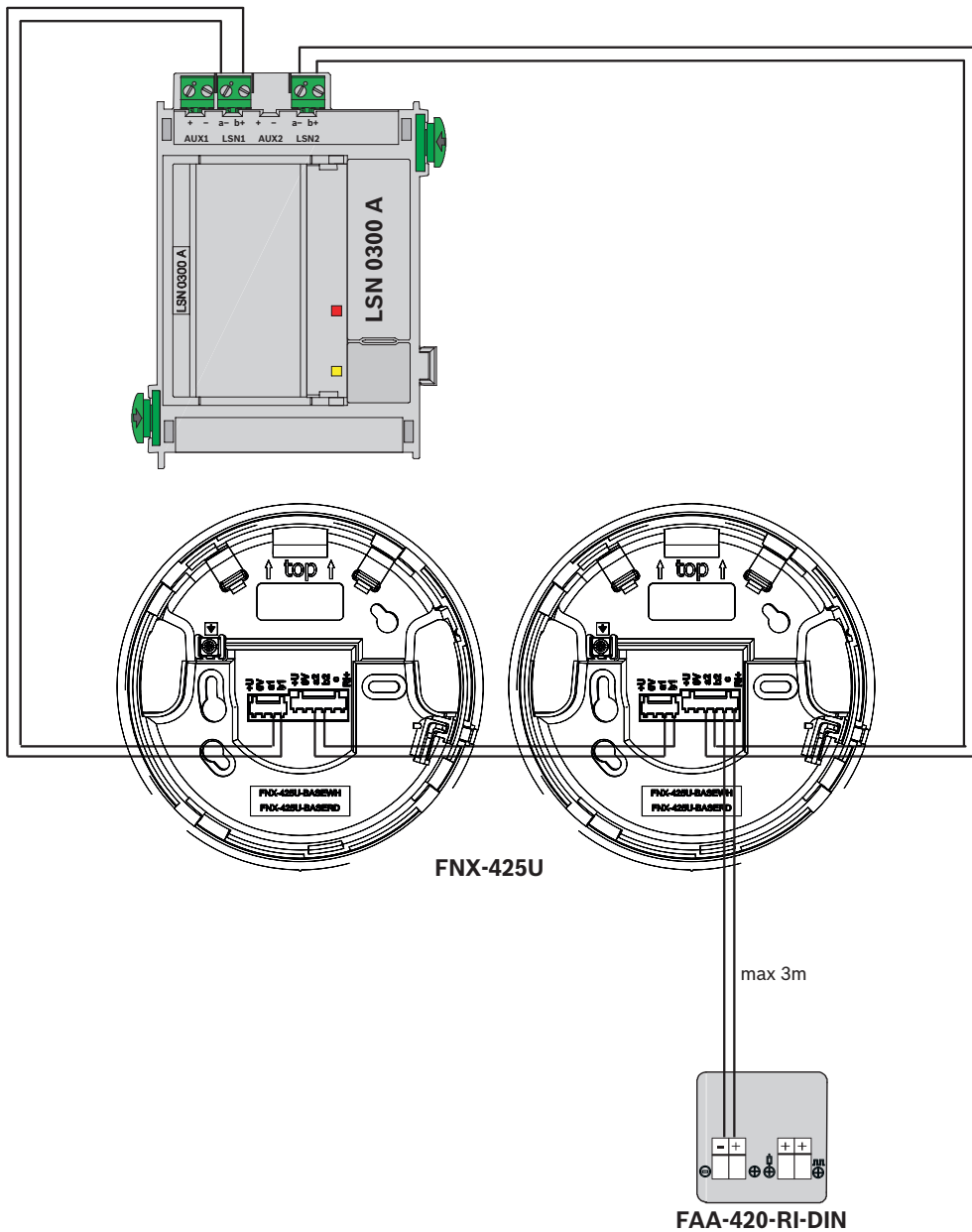
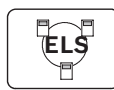


FLM-420-RLE-S





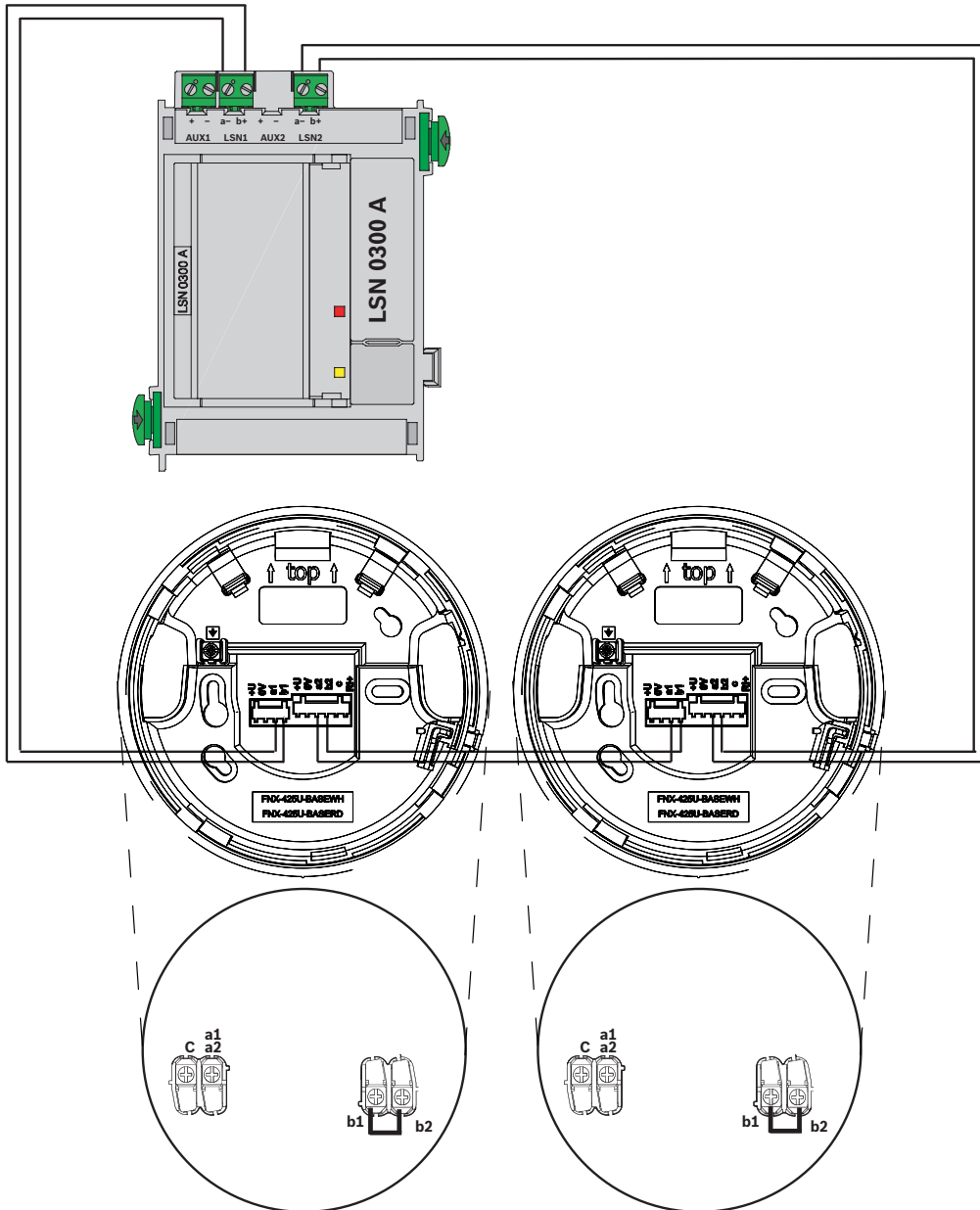
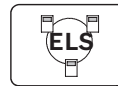
**FNX-425U-WFWH**  
**FNX-425U-RFWH**  
**FNX-425U-WFRD**  
**FNX-425U-RFRD**

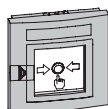
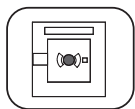




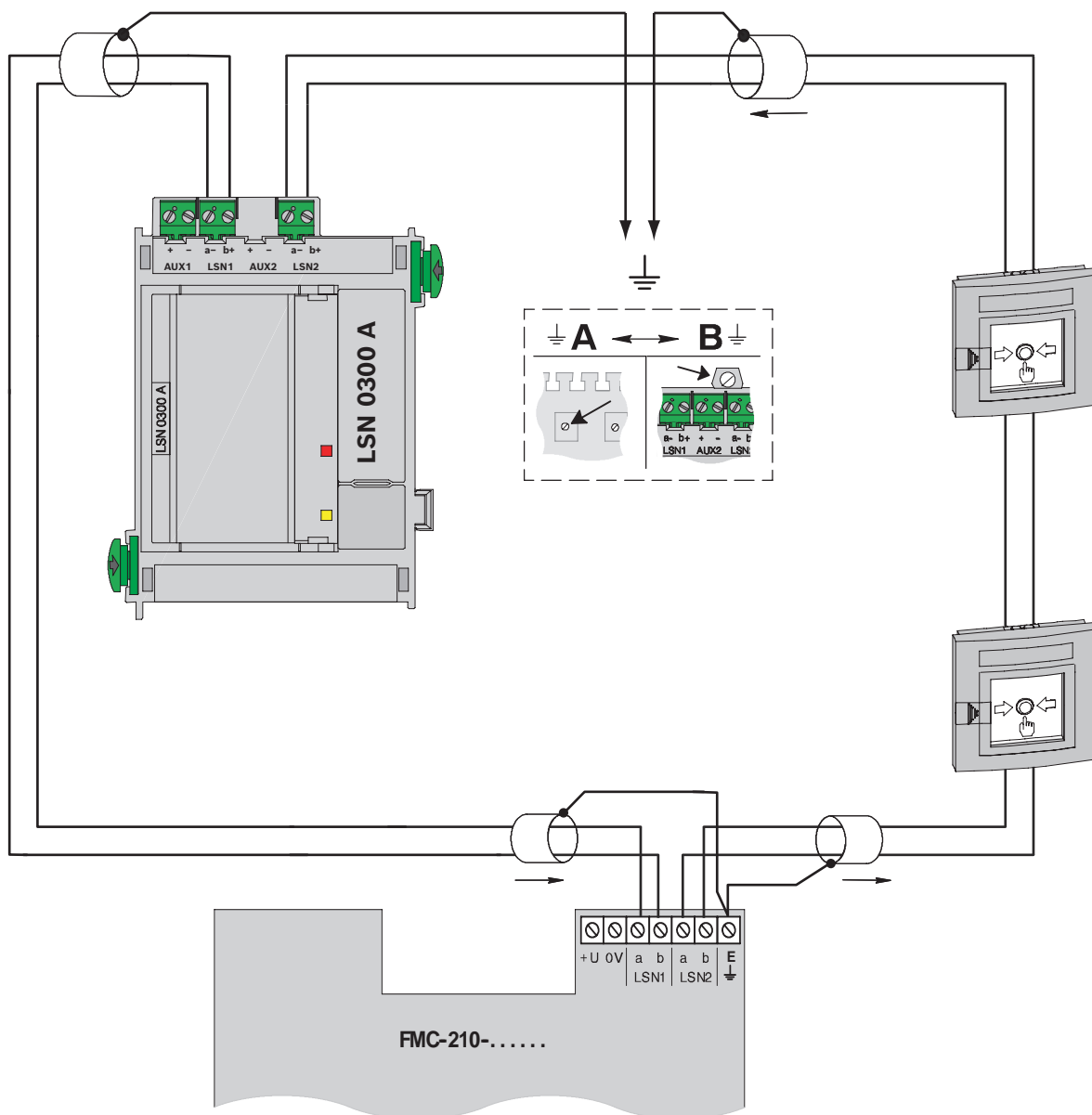
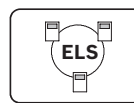
FNX-425U-WFWH  
 FNX-425U-RFWH  
 FNX-425U-WFRD  
 FNX-425U-RFRD

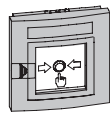
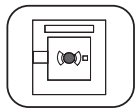
+ FNX-425U-COVWH  
 FNX-425U-COVRD



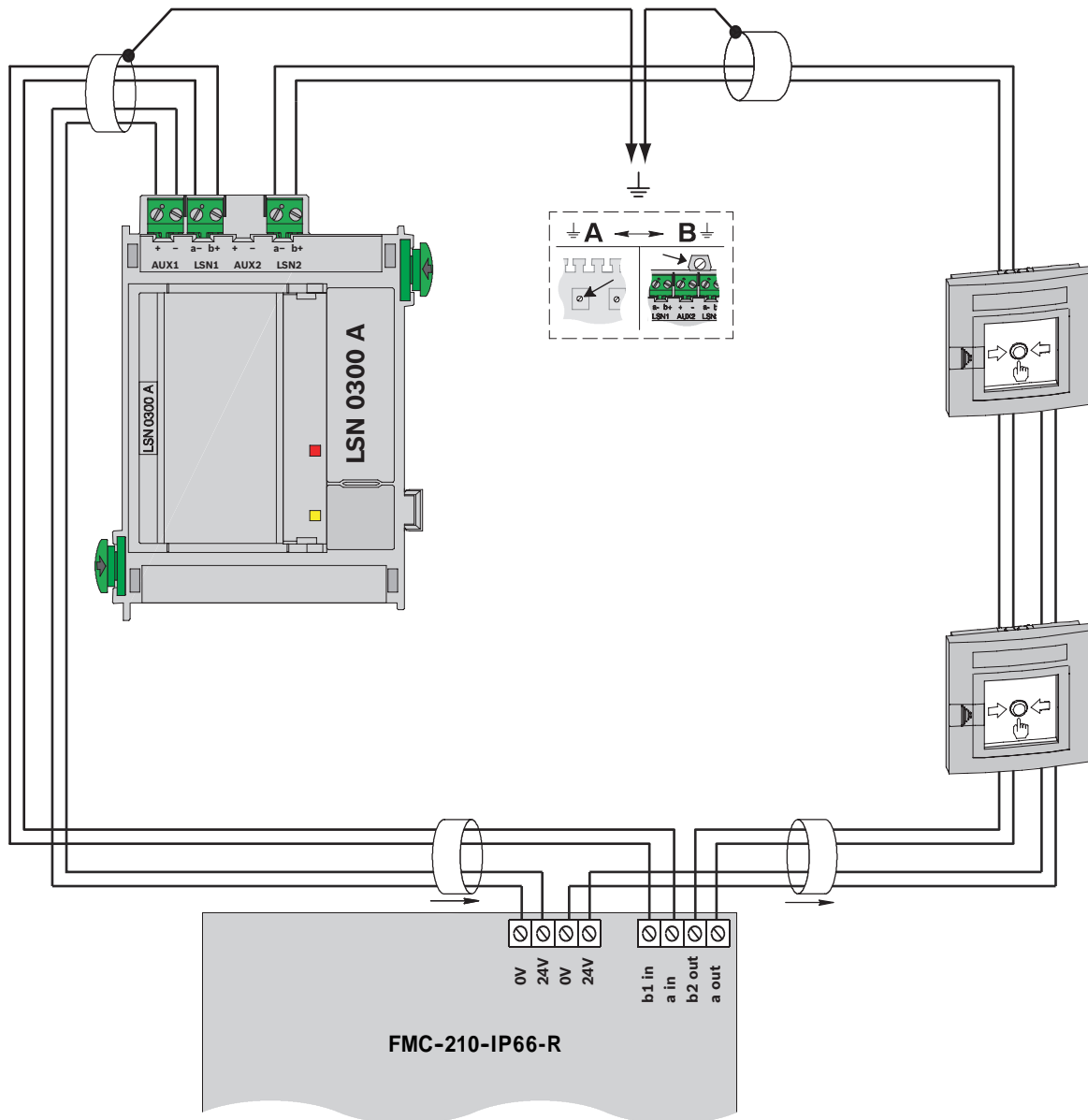
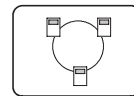


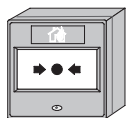
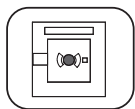
FMC-210...



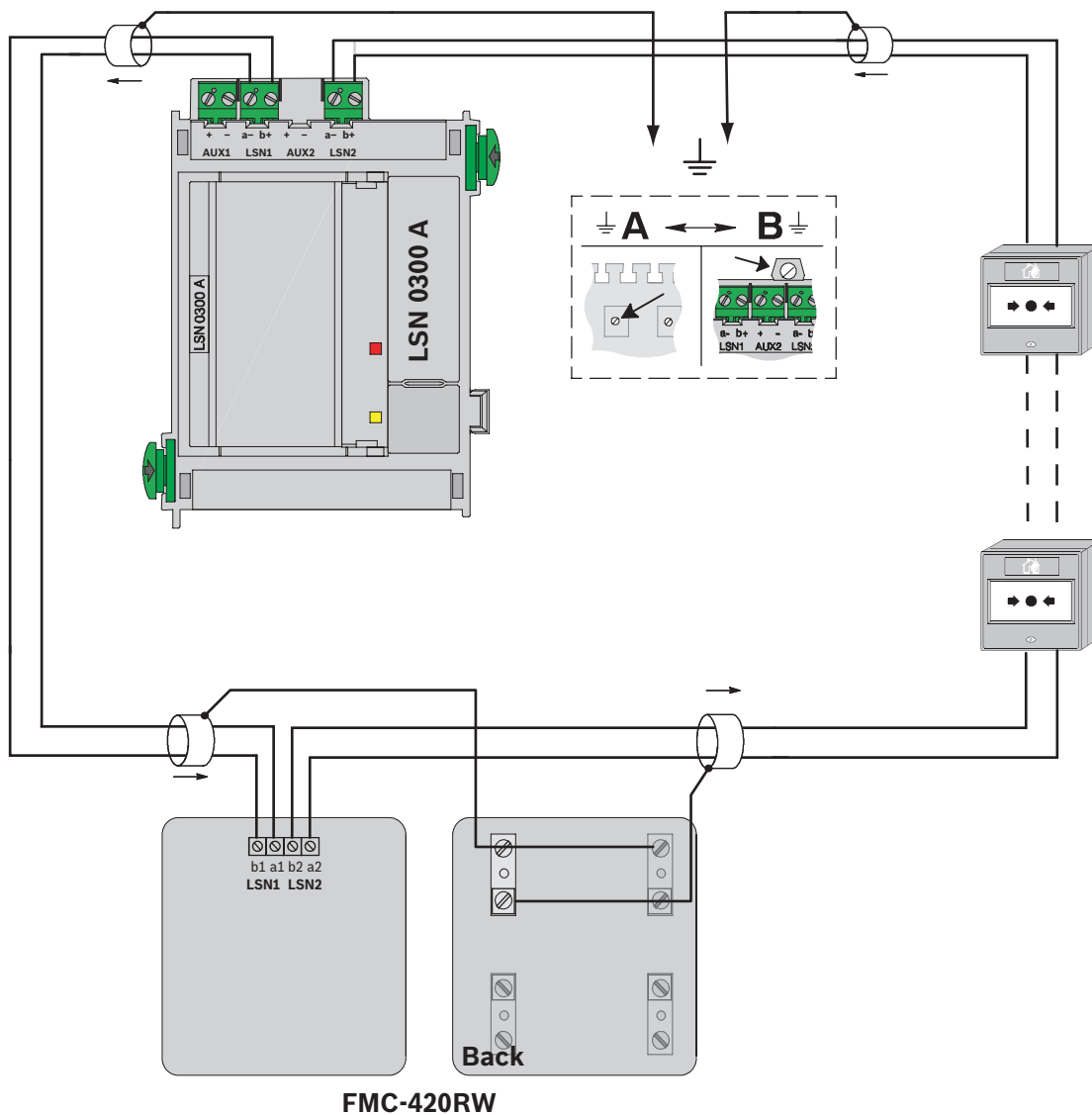
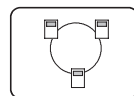


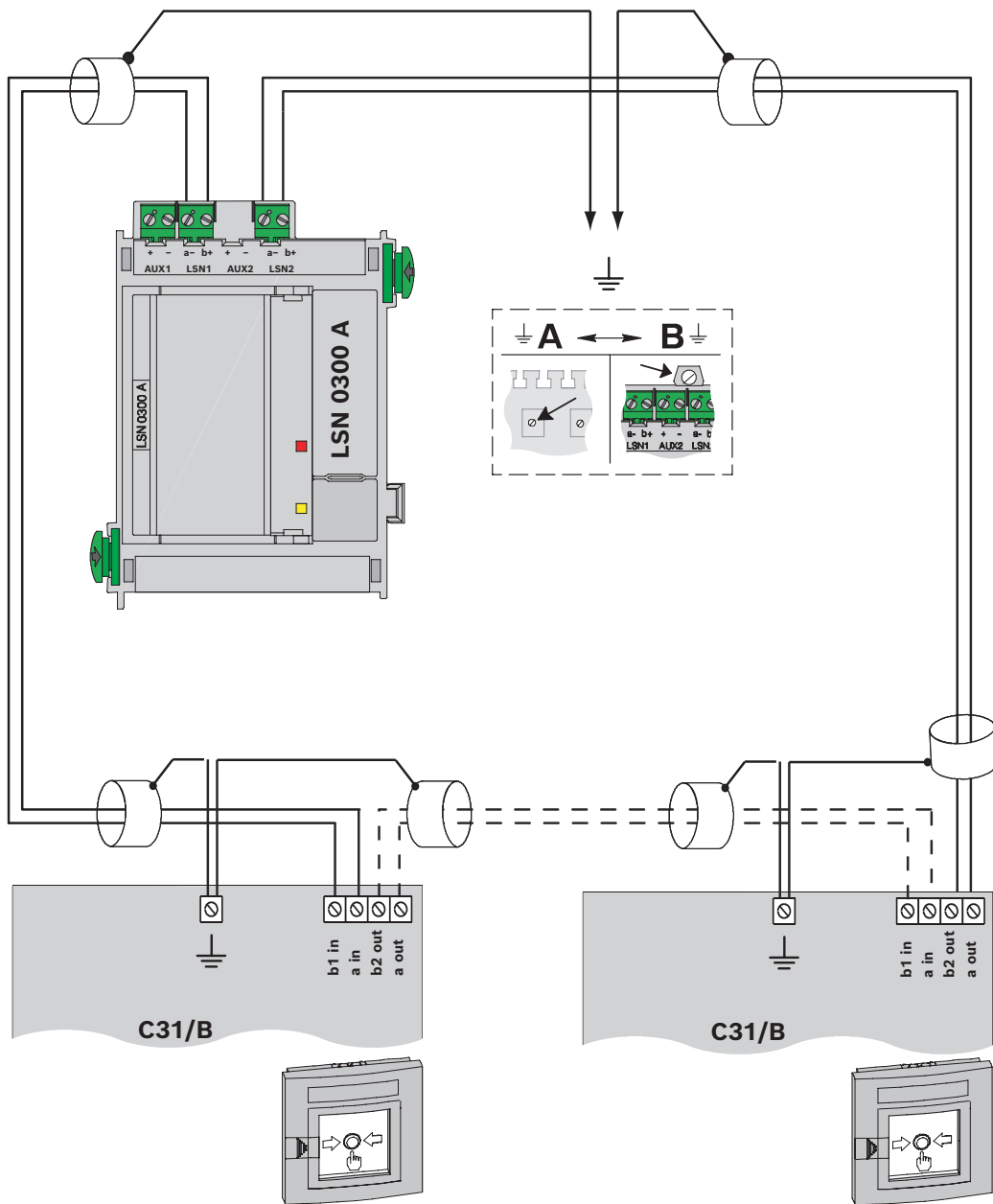
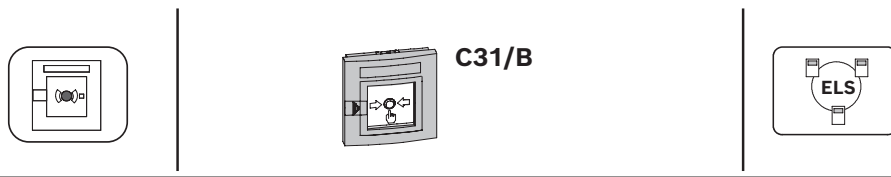
**FMC-210-IP66-R**

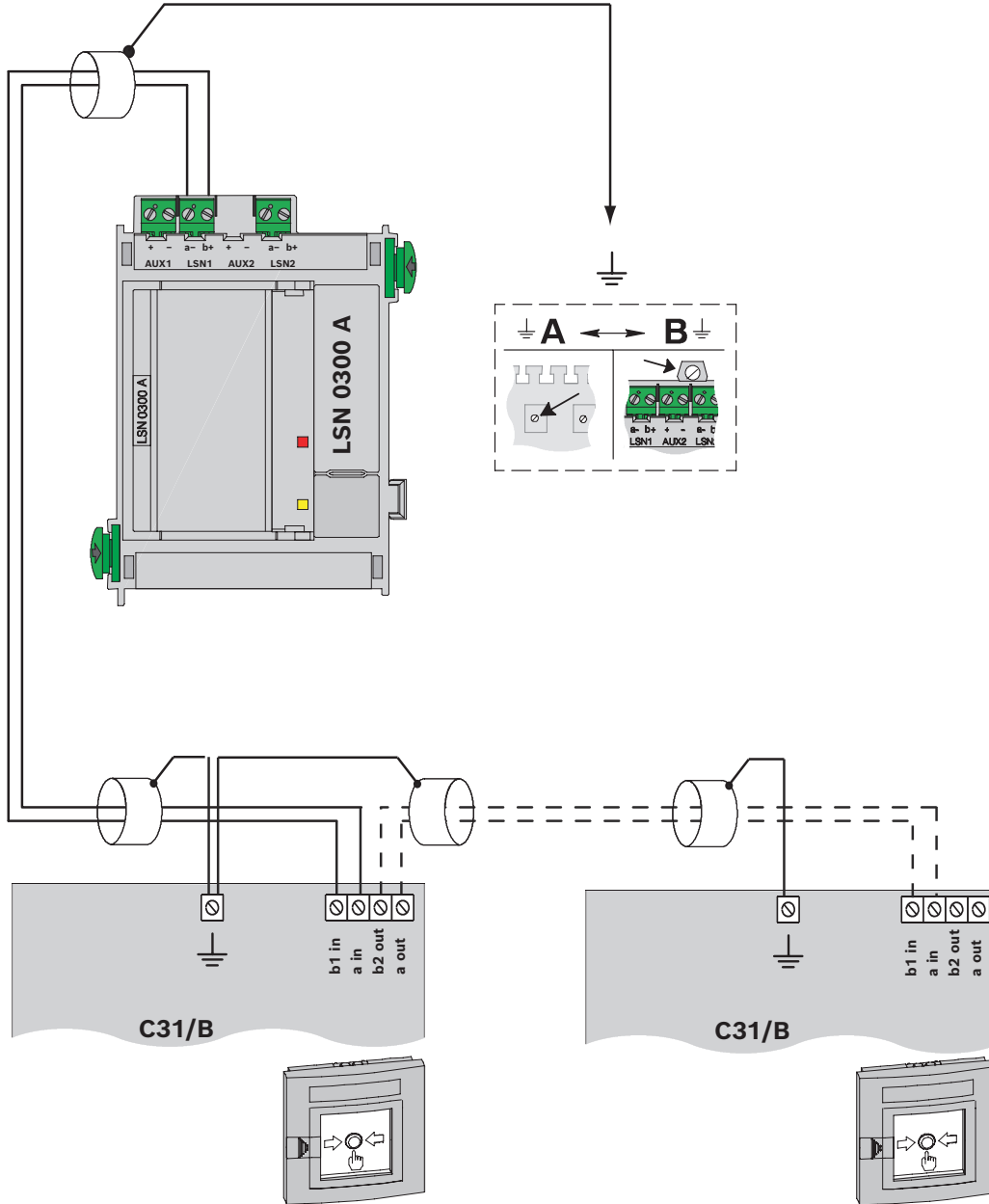
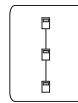
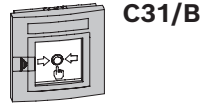
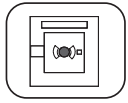




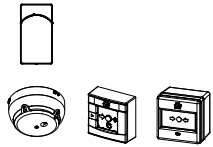
FMC-420RW-HSGRD  
 FMC-420RW-HSRRD  
 FMC-420RW-GFGRD  
 FMC-420RW-GFRRD  
 FMC-420RW-GSGRD  
 FMC-420RW-GSRRD





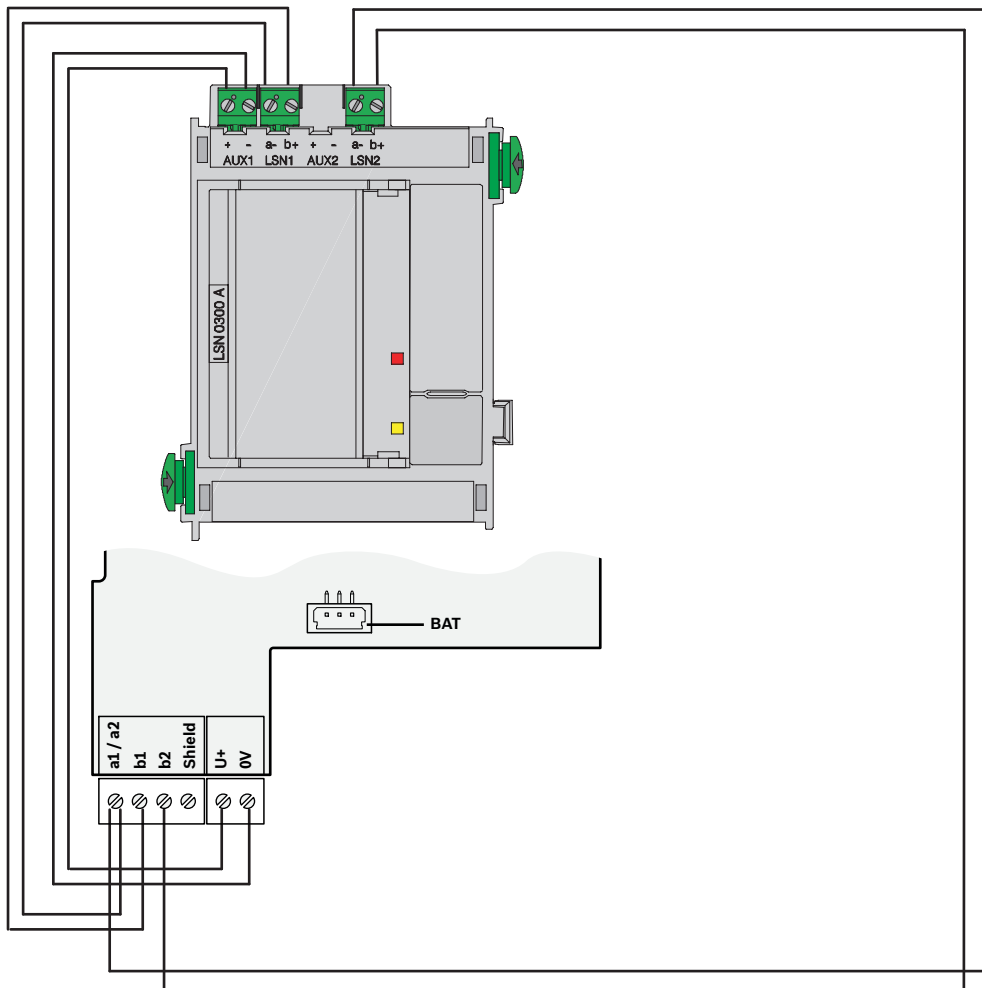
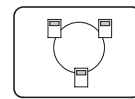




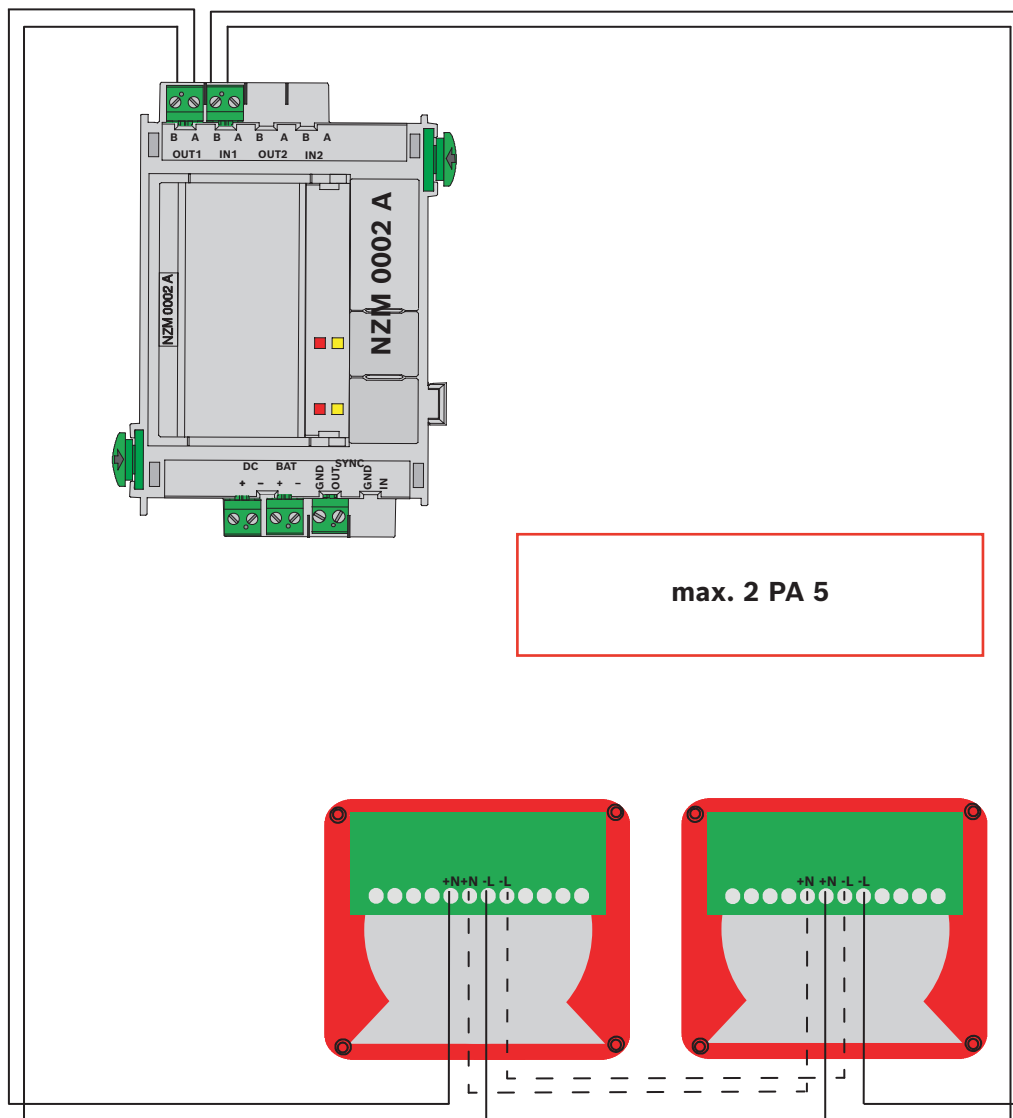
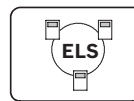


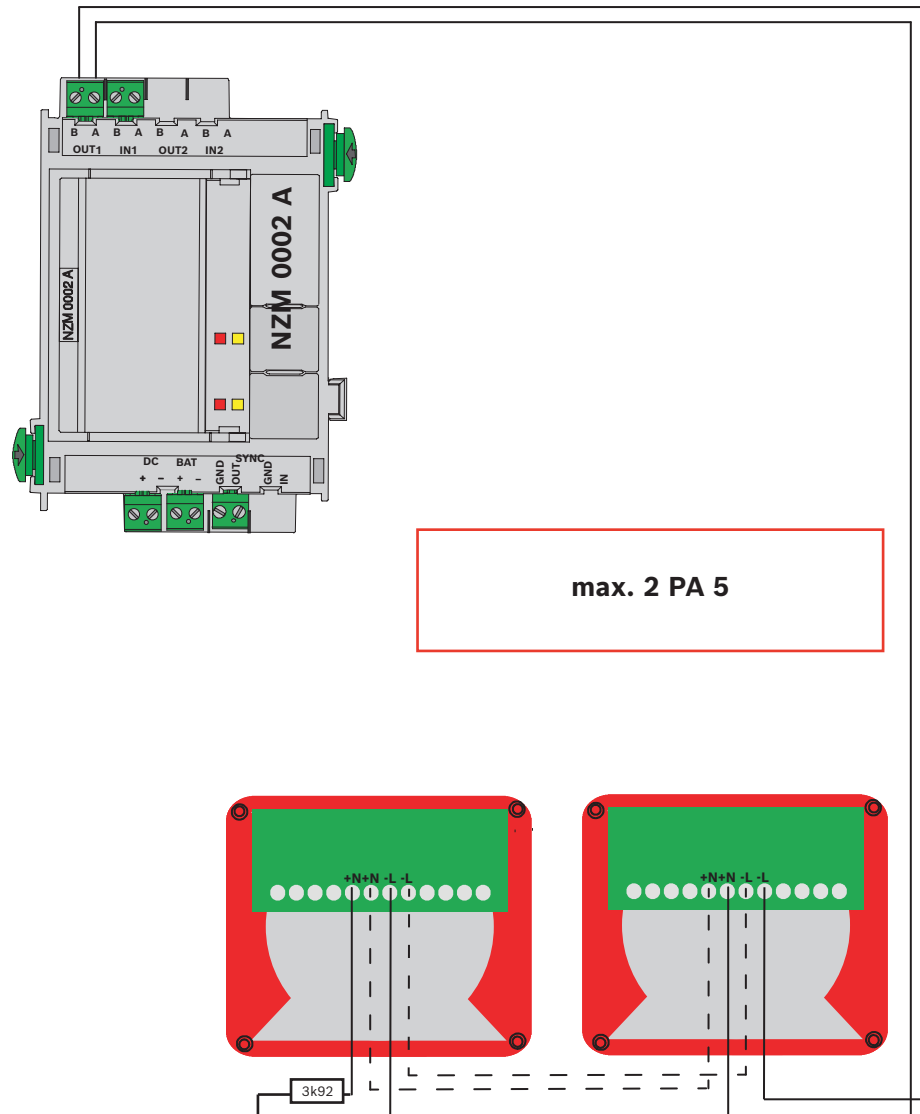
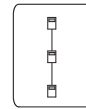
**FWI-270**

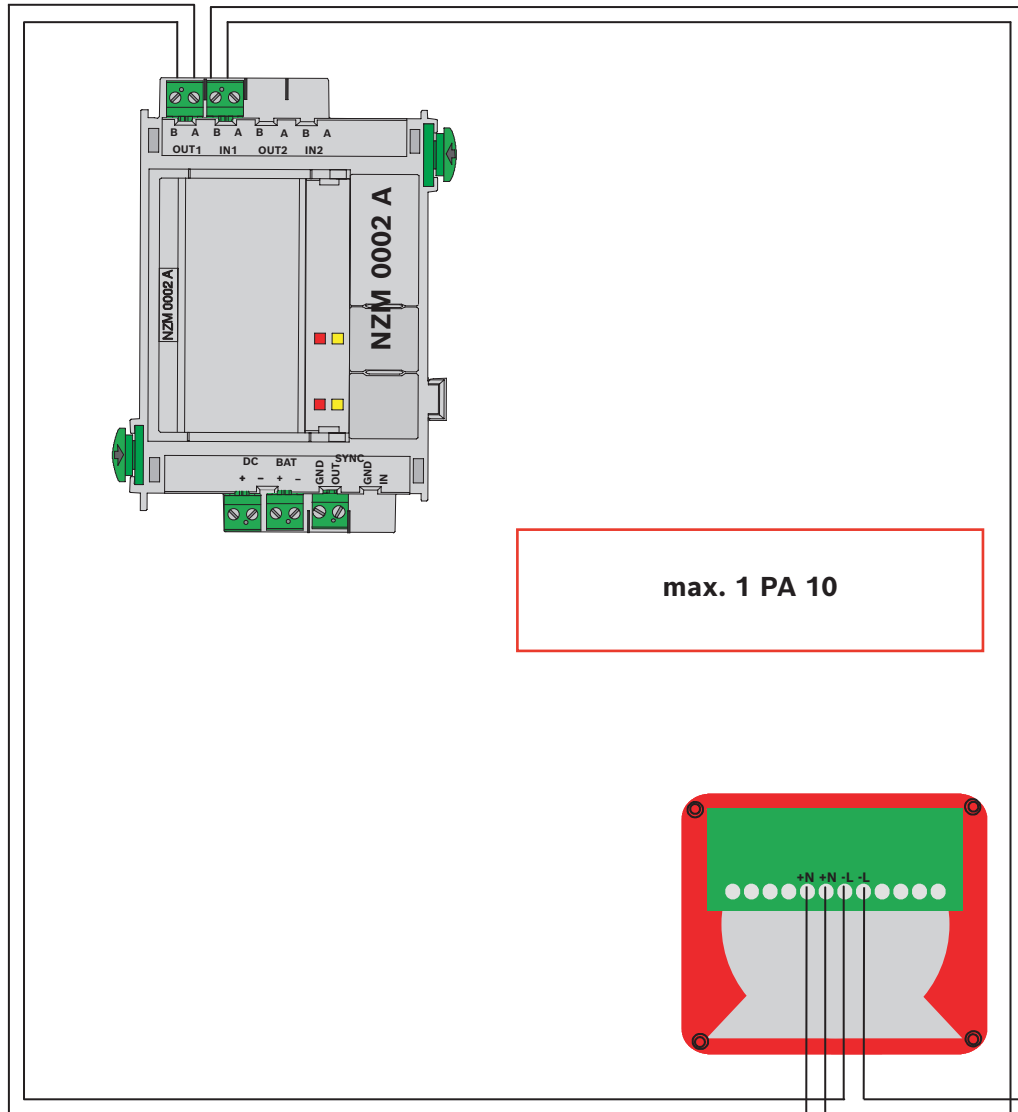
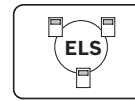
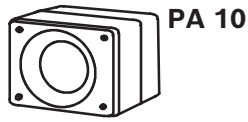
**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**

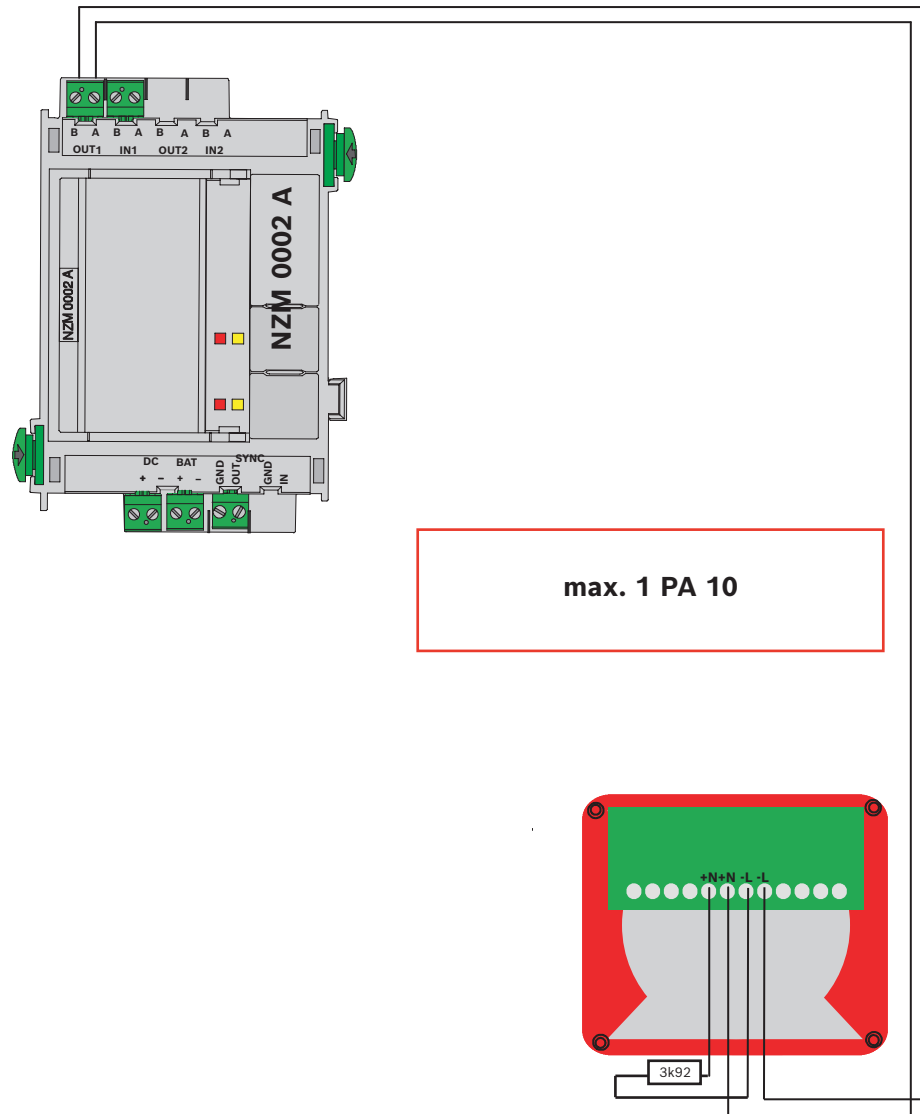
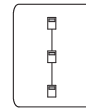


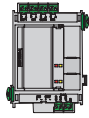
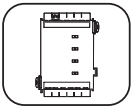
### 2.4.5 NZM 0002 A



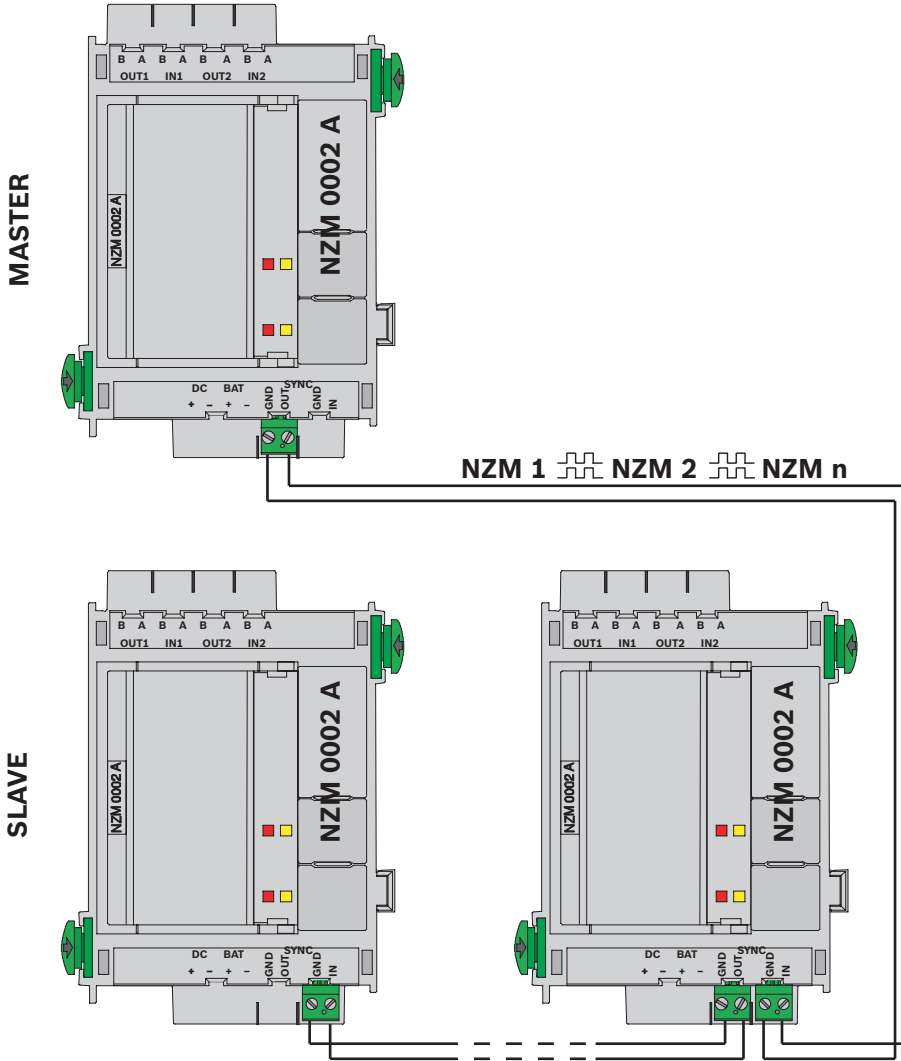


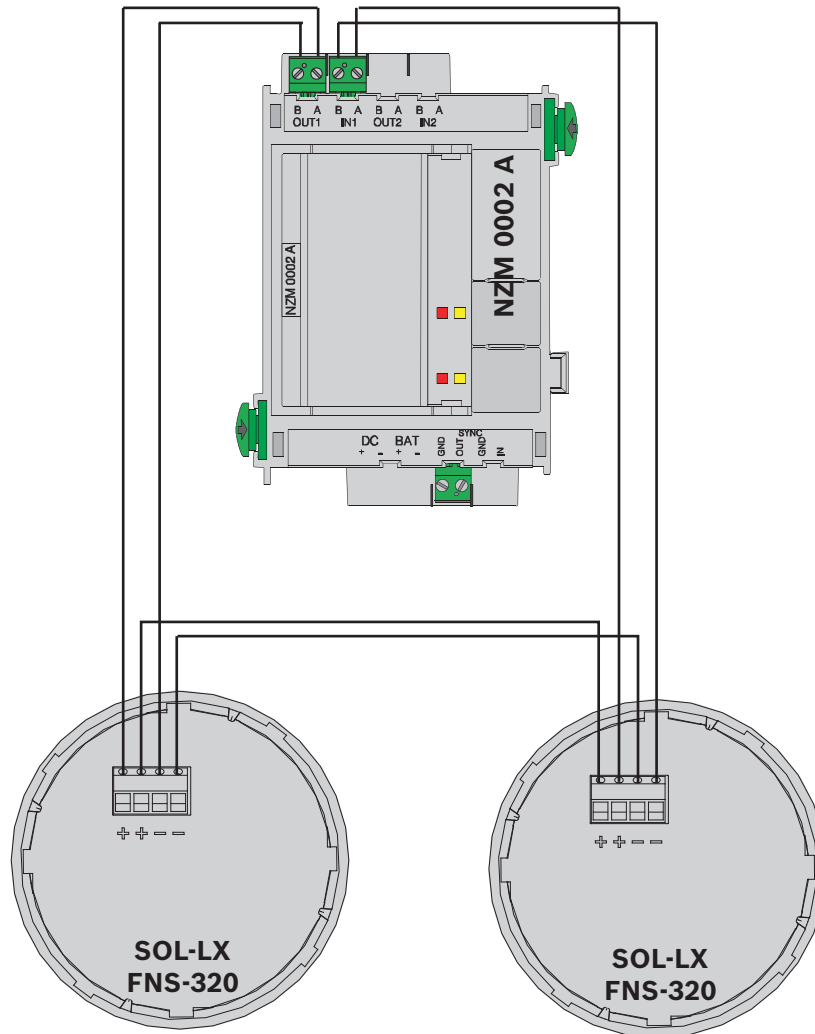
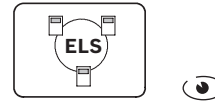


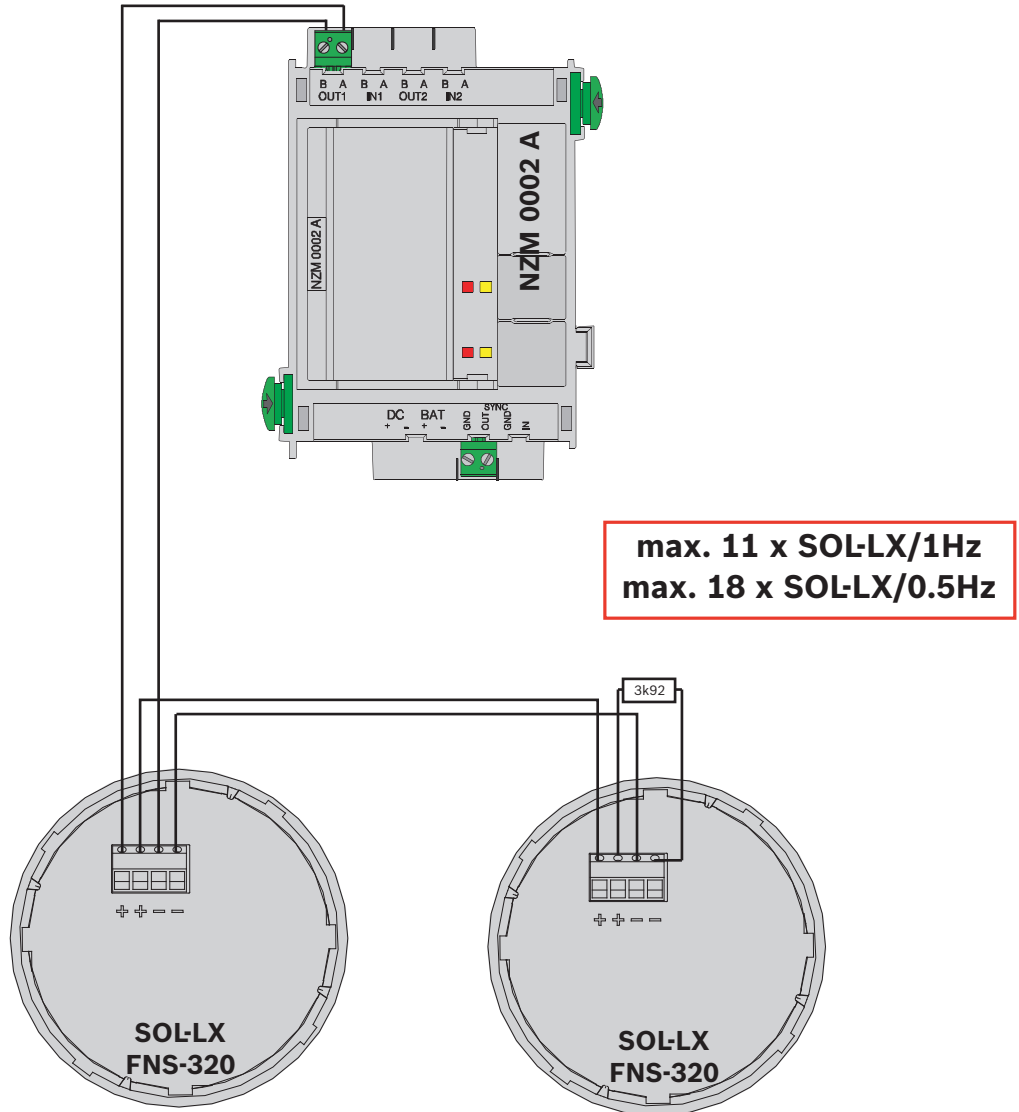
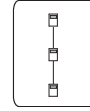




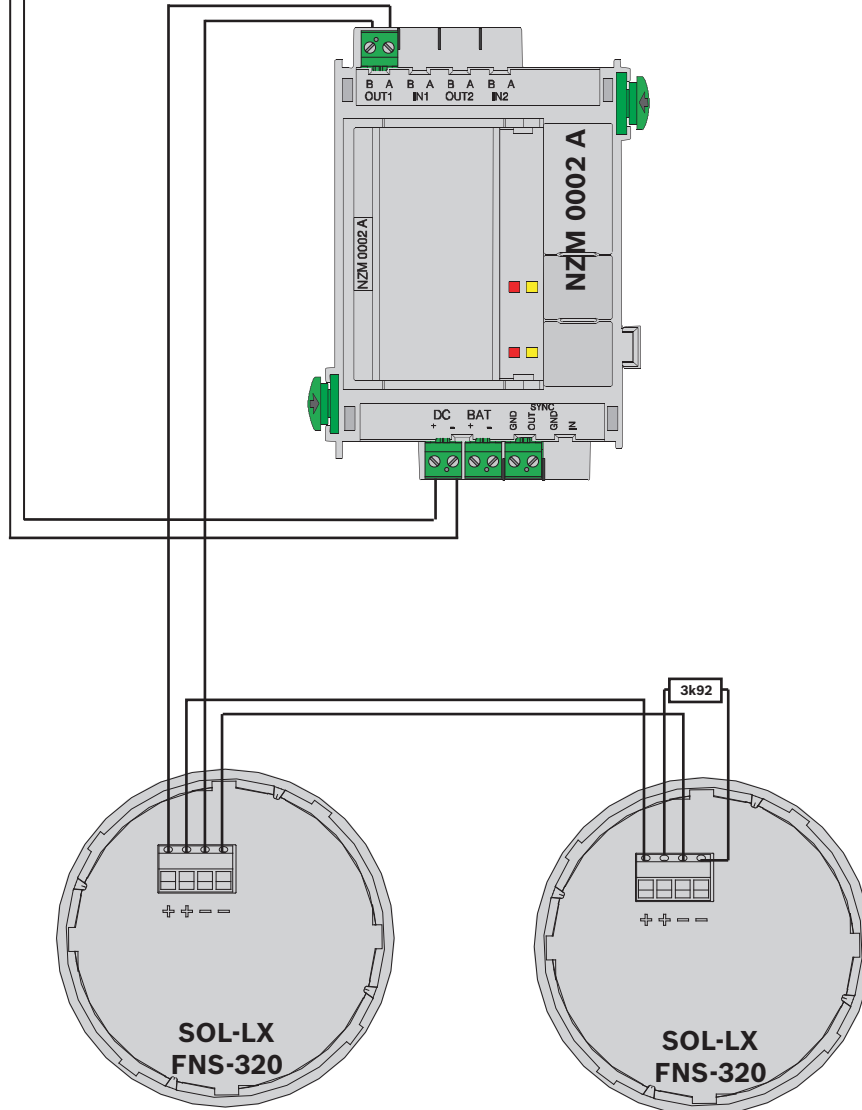
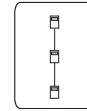
NZM 0002 A

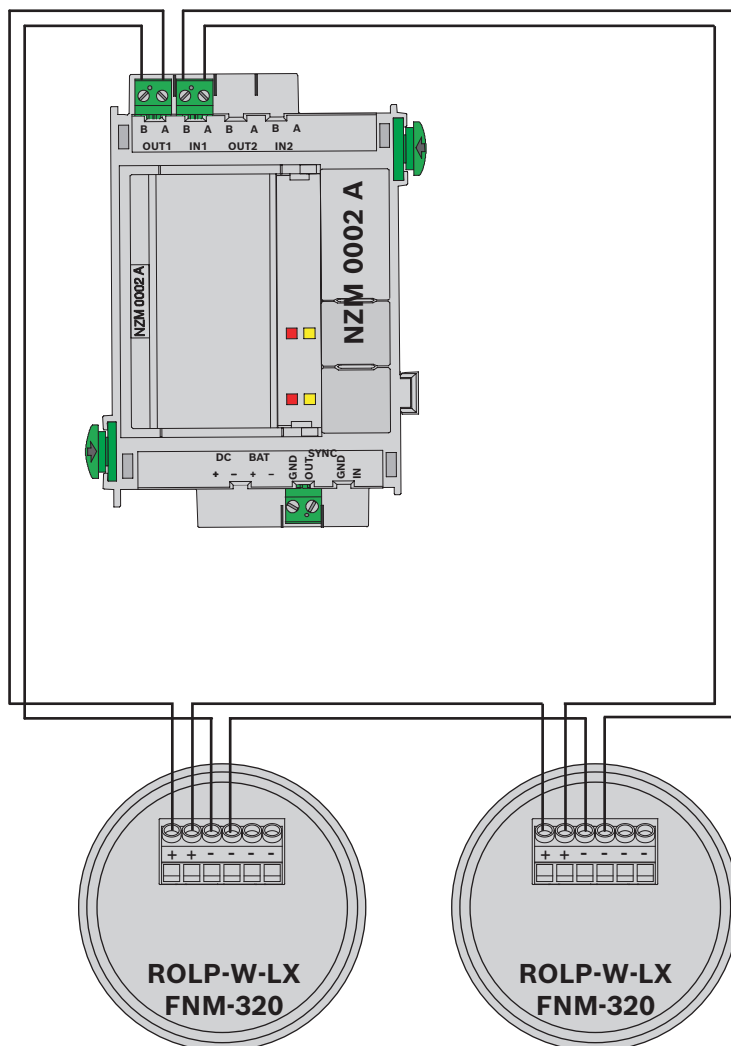
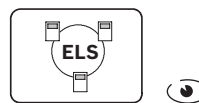


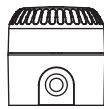




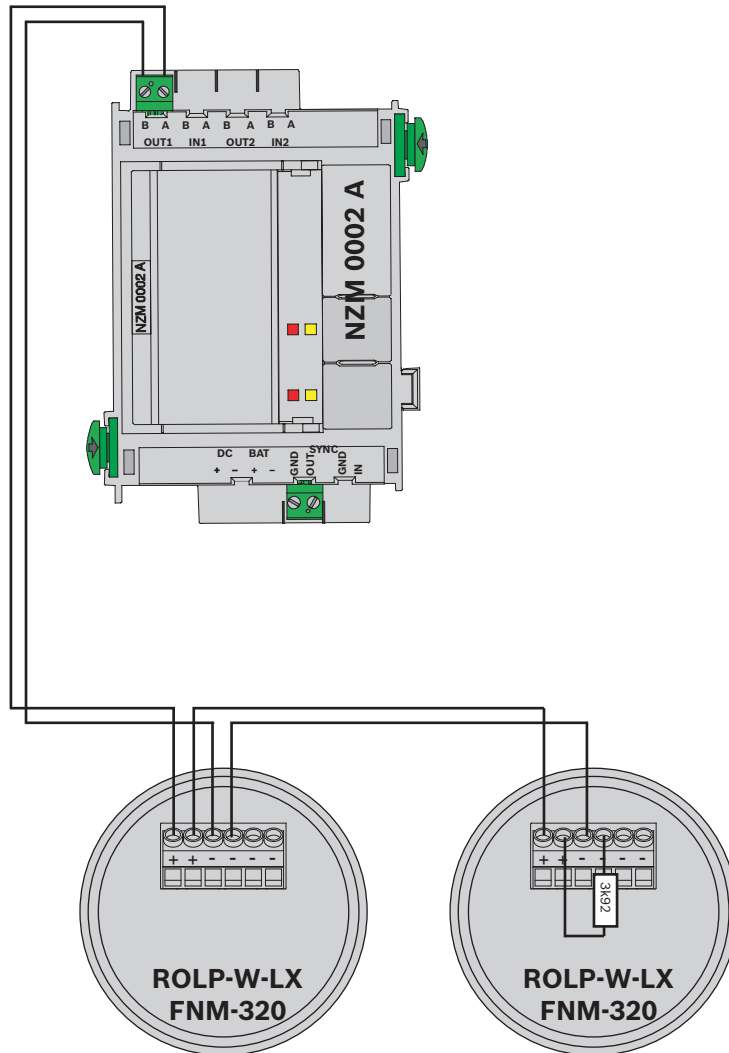
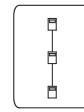






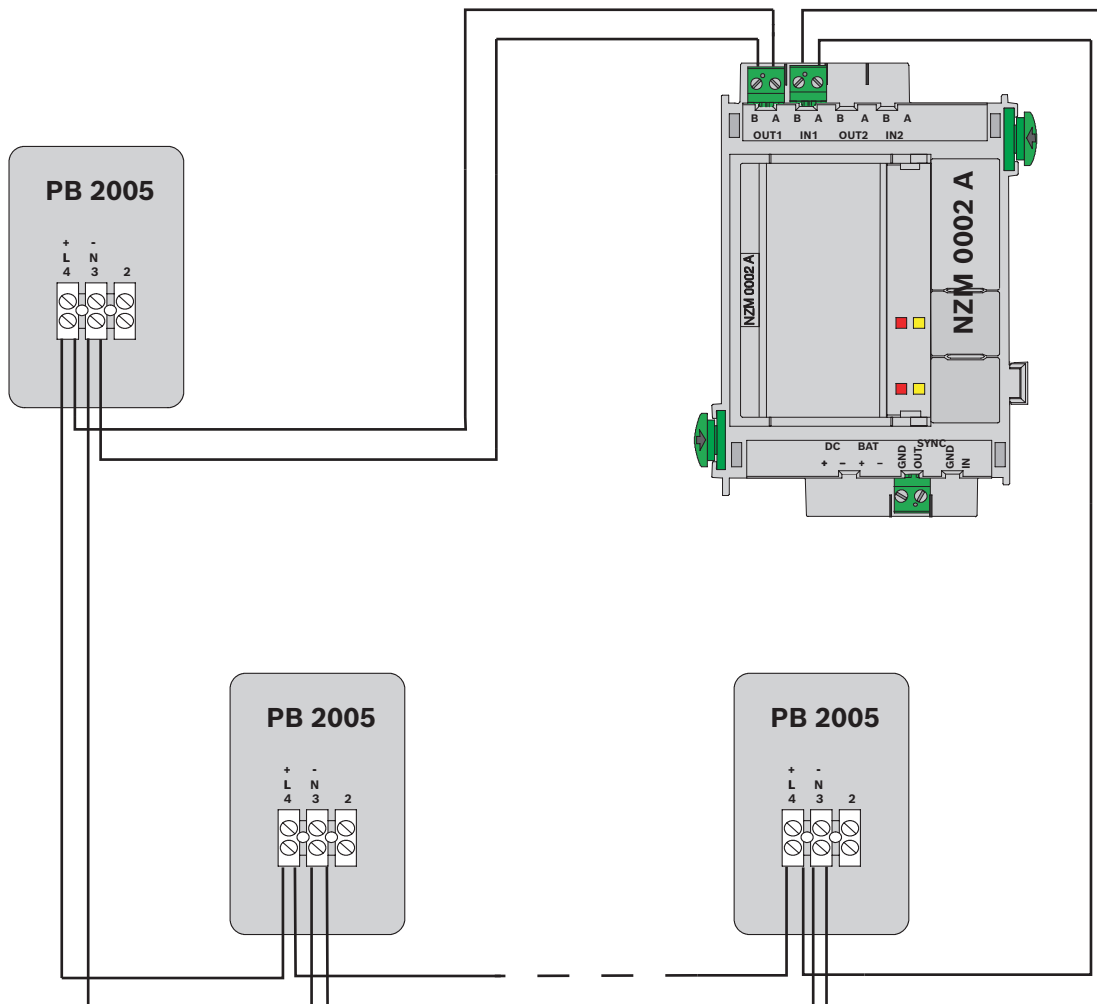
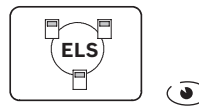


**ROLP-W-LX  
FNM-320**



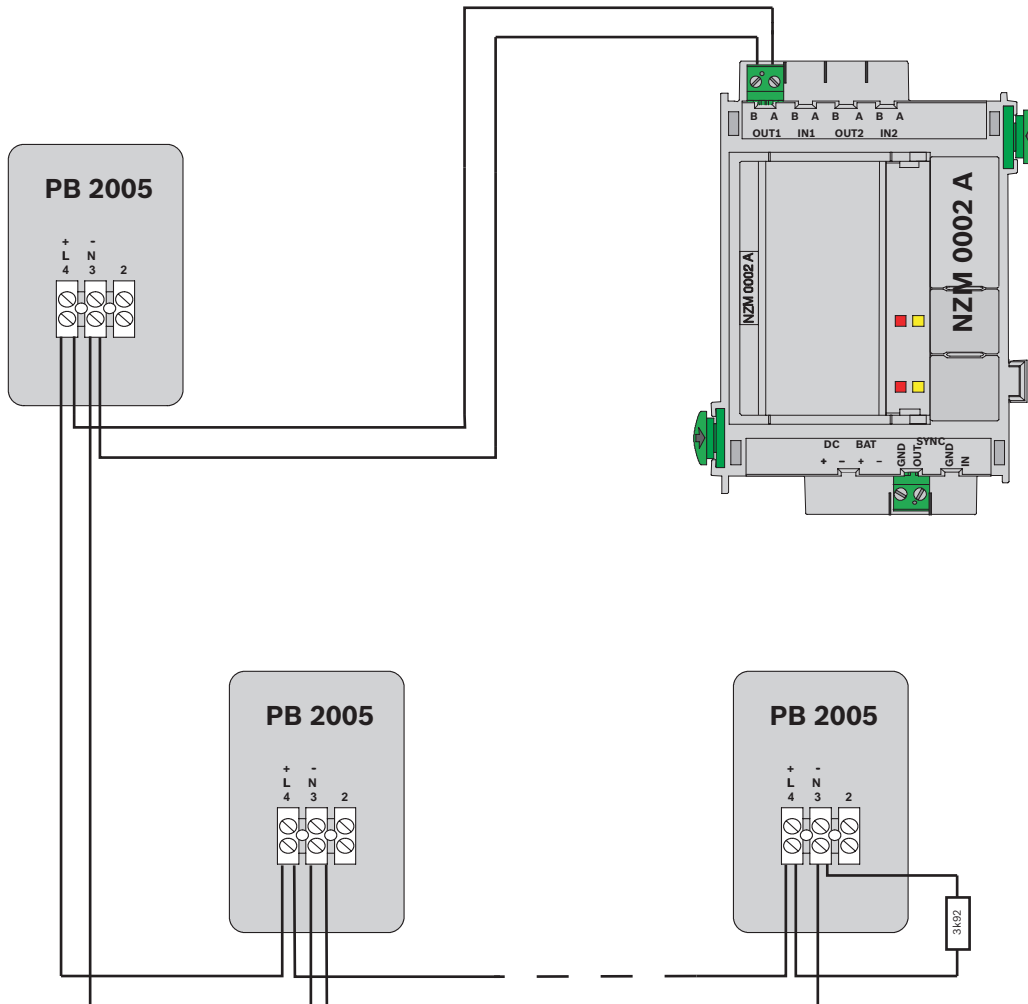
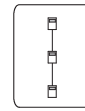


PB 2005



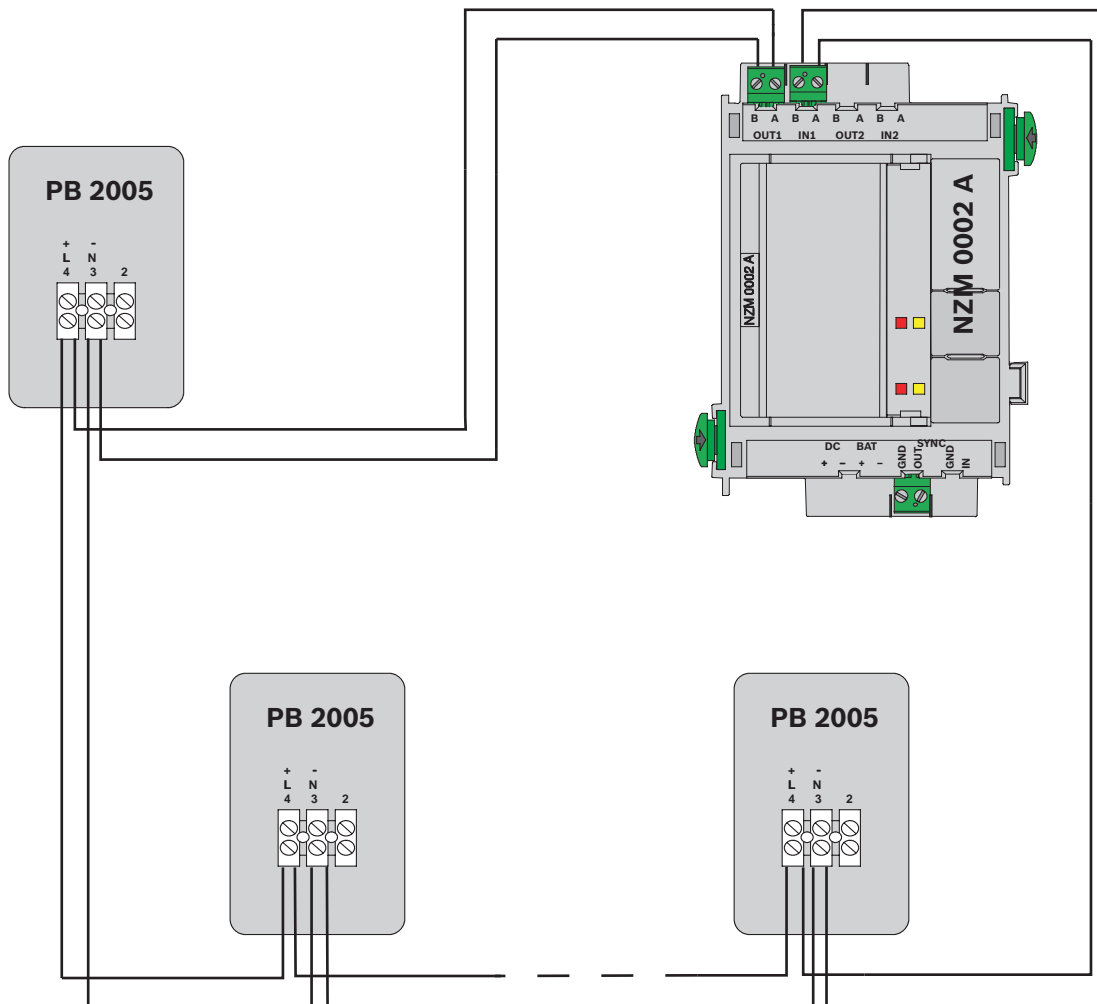
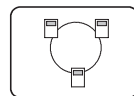


**PB 2005**



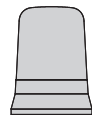


PB 2005

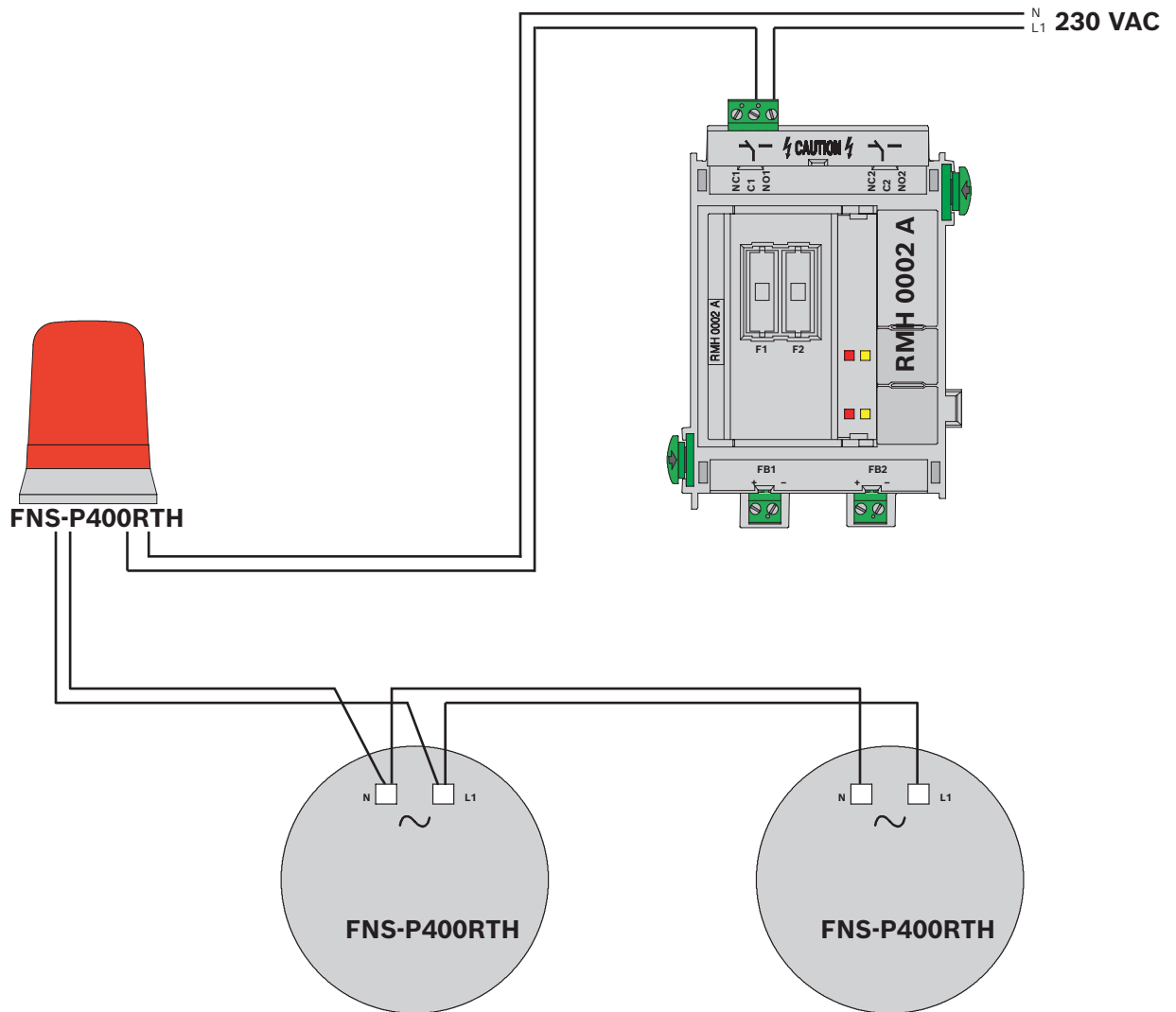
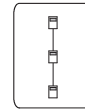


2.4.6

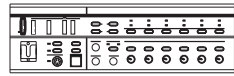
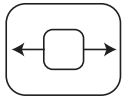
RMH 0002 A



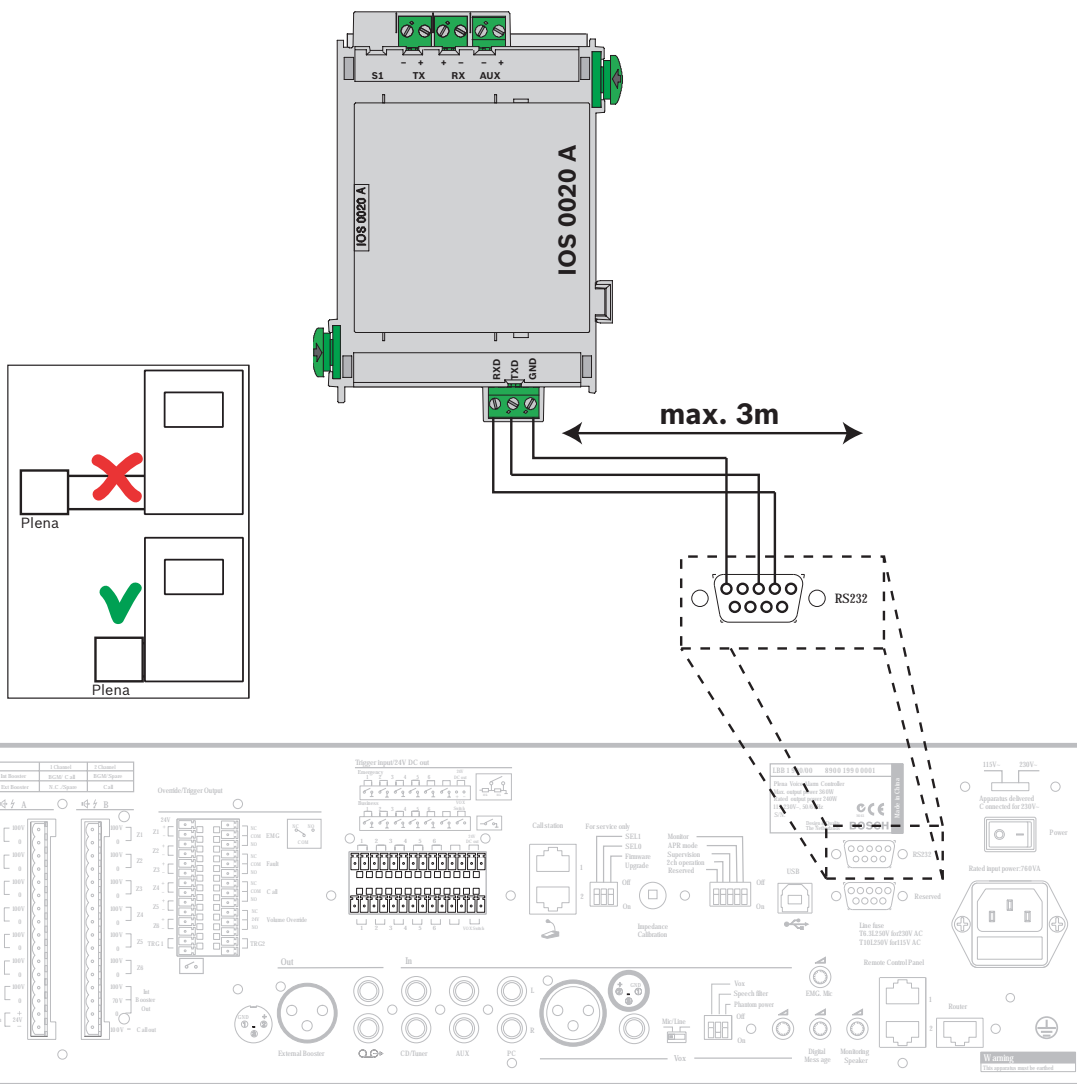
FNS-P400RTH



### 2.4.7 IOS 0020 A



Plena



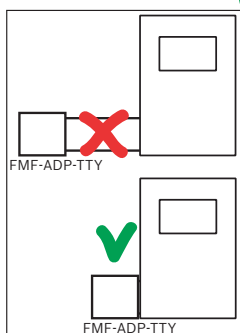
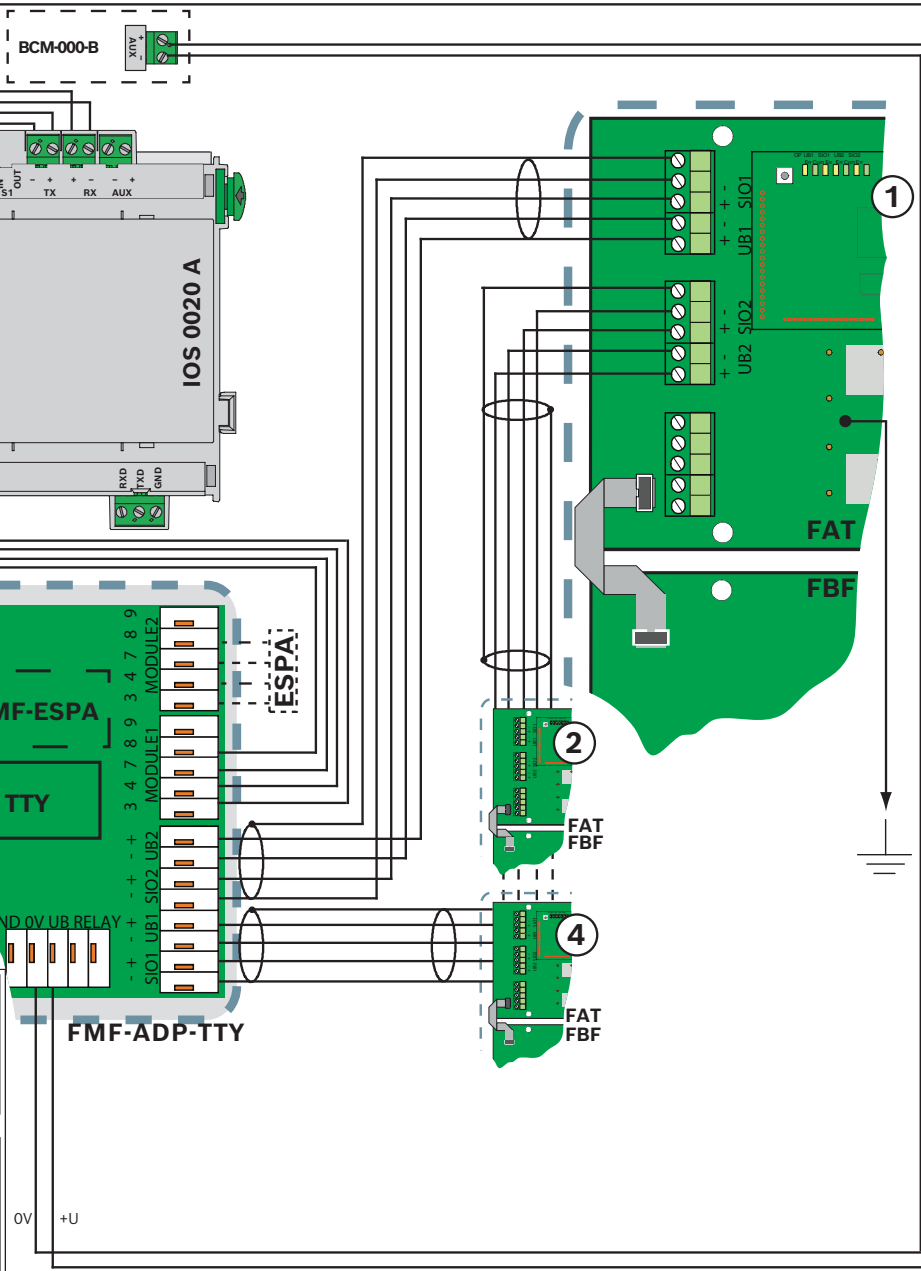




FAT4000 FBF4000 ADP4000

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

ELS



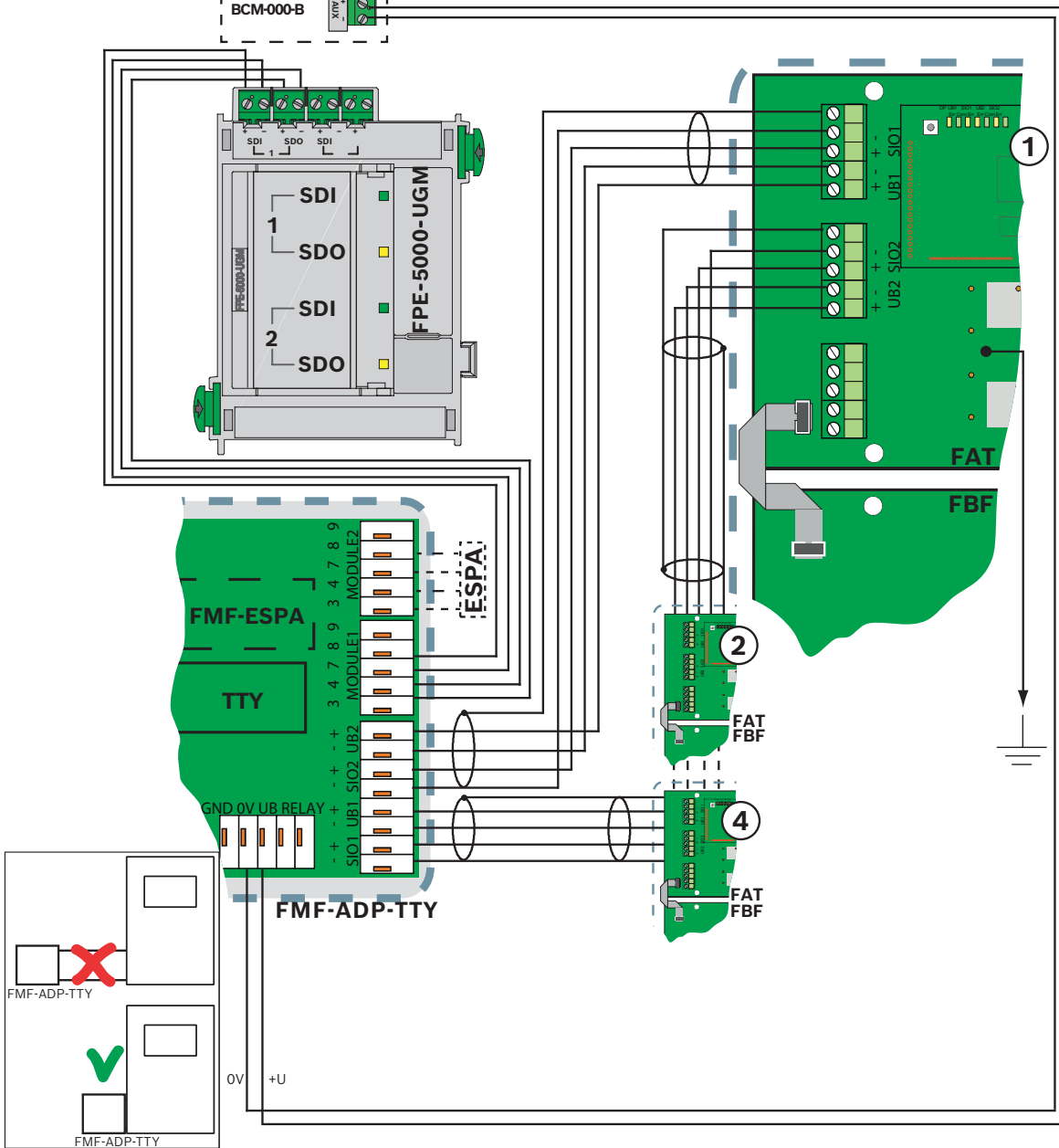
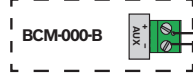
2.4.8

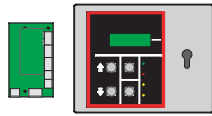
FPE-5000-UGM



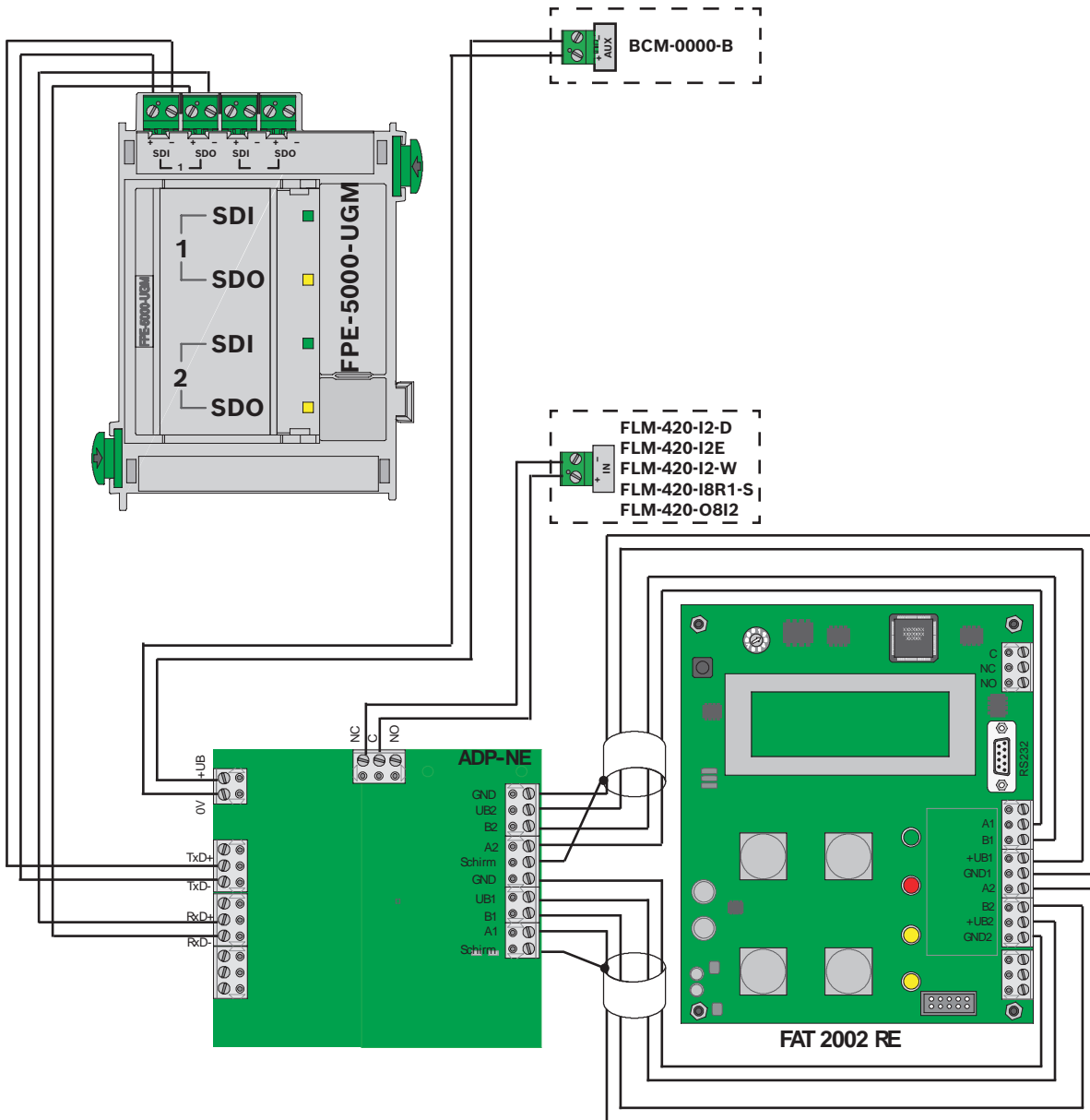
FAT4000 FBF4000 ADP4000  
 FMF-FAT FMF-FBF-FAT  
 FMF-FIBS-A4/-A3  
 FMF-ADP

ELS





FAT2002RE  
ADP-NE



## 2.5

### Interface Modules



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

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

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

*FLM-420-RHV, Seite 172*

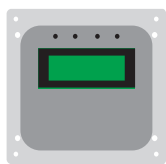
*FLM-420-RLE-S, Seite 184*

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

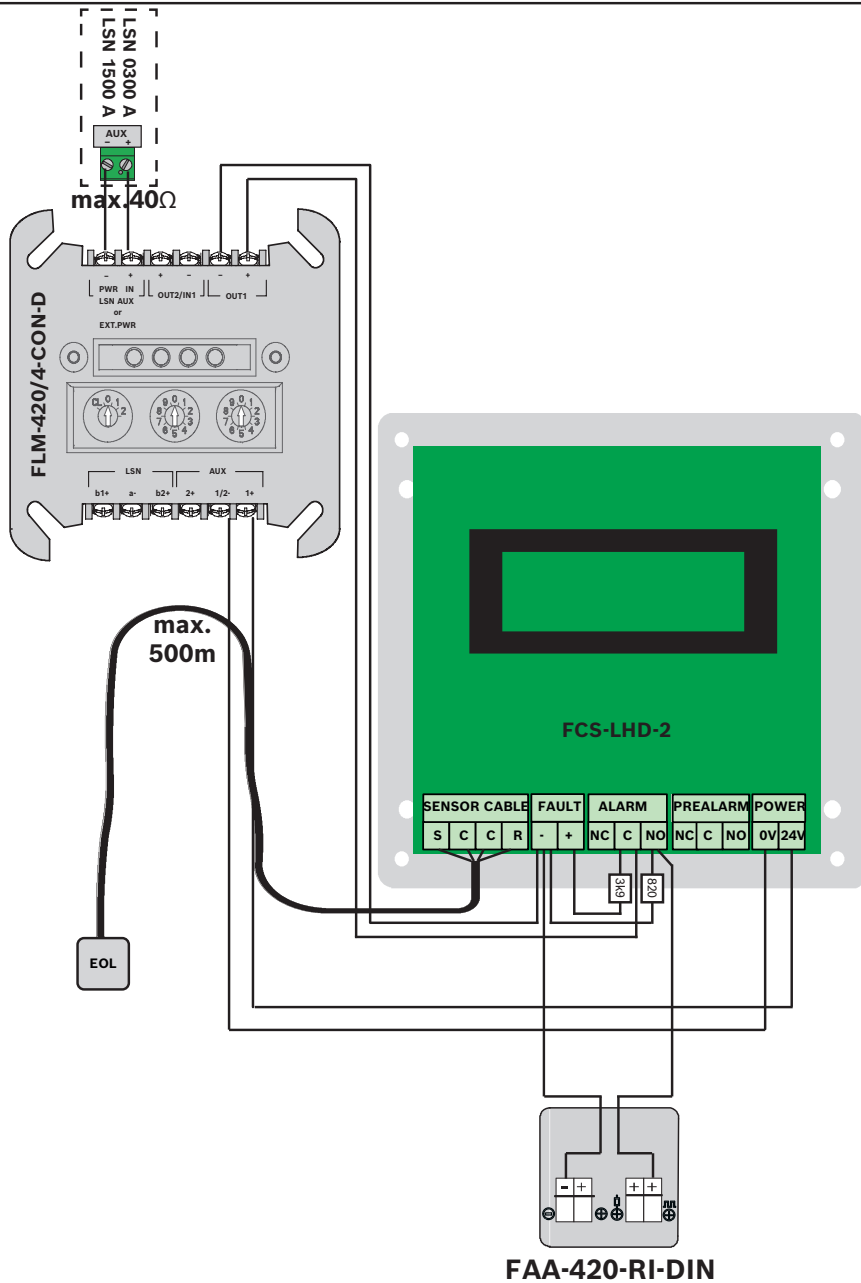
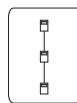
*FLM-420-RLV8-S, Seite 186*

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

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

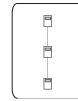


ALARMLINE II



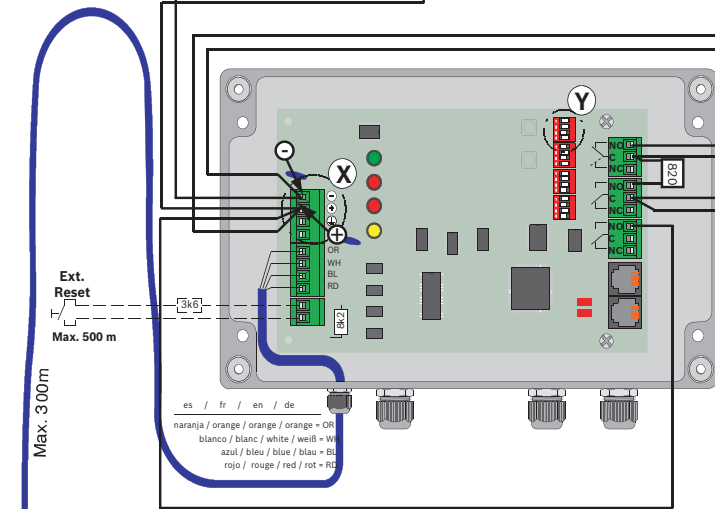
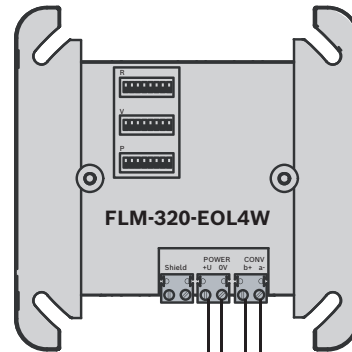
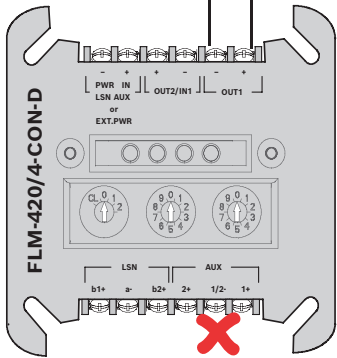


FCS-LWM-1



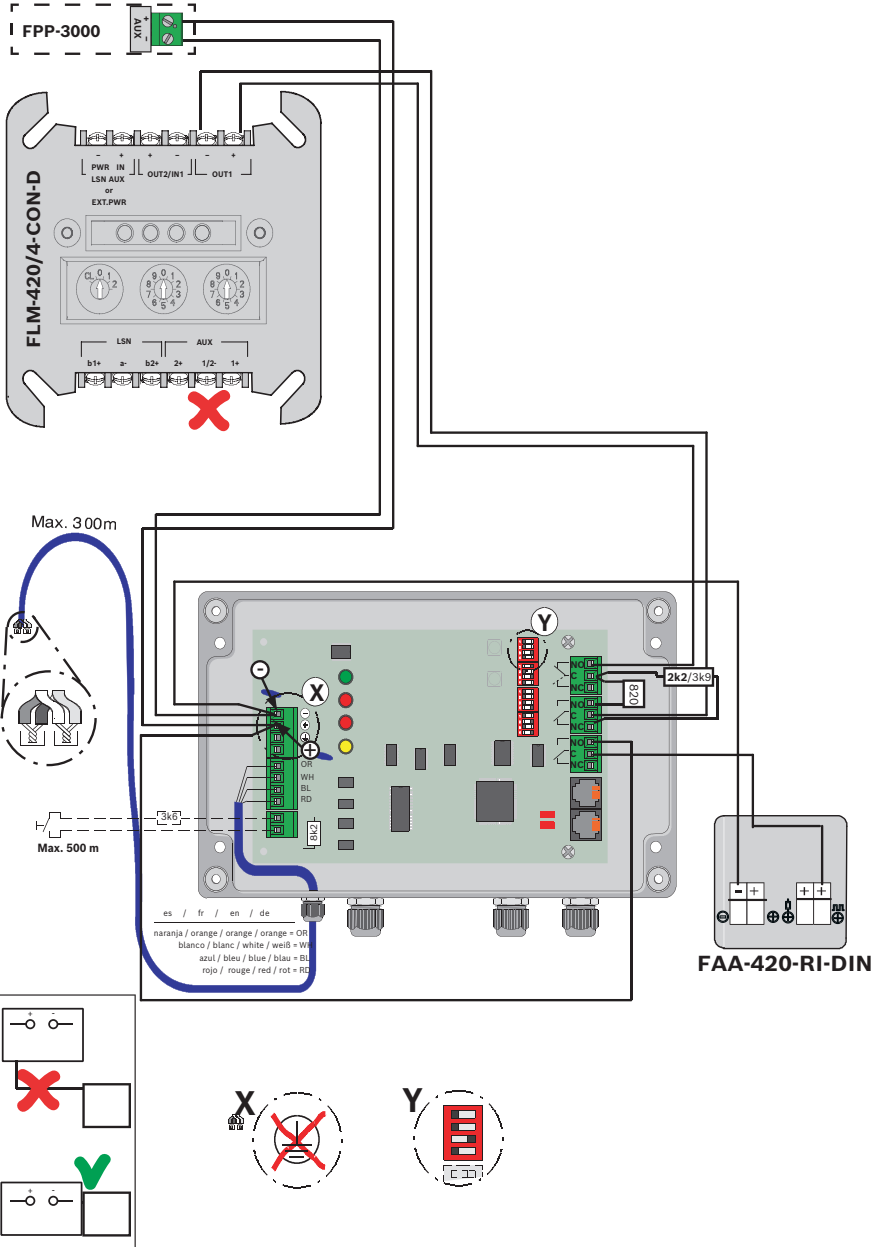
ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



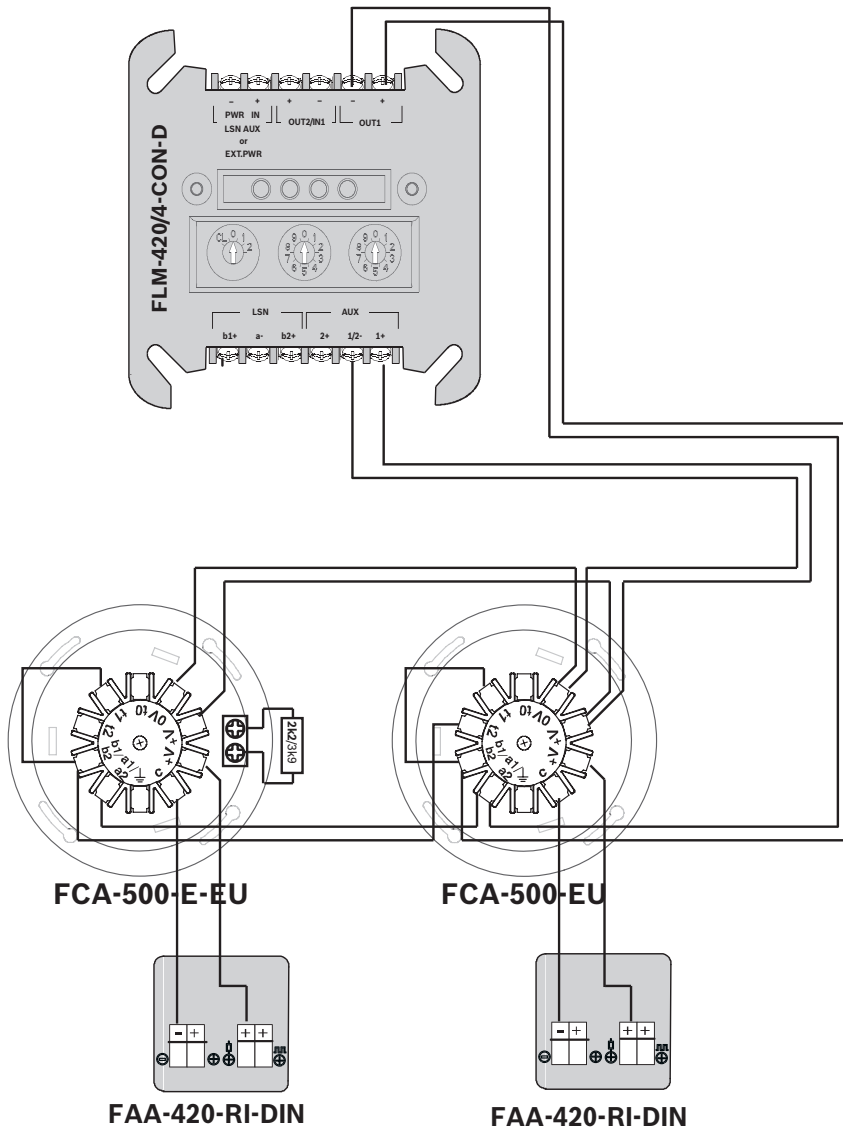


FCS-LWM-1



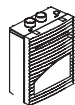


FCP-500





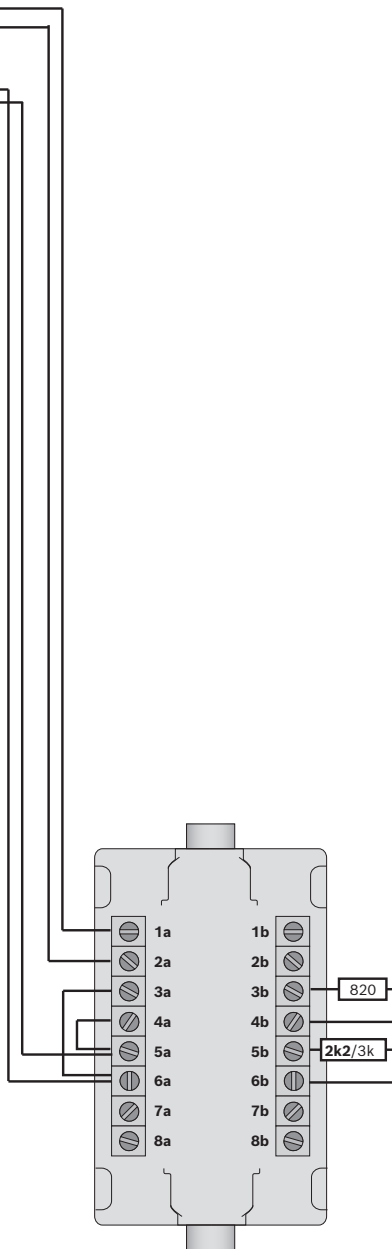
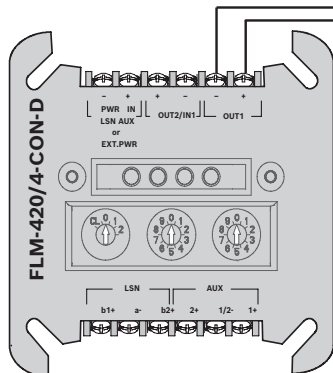


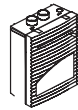


FCS-320-TM Series

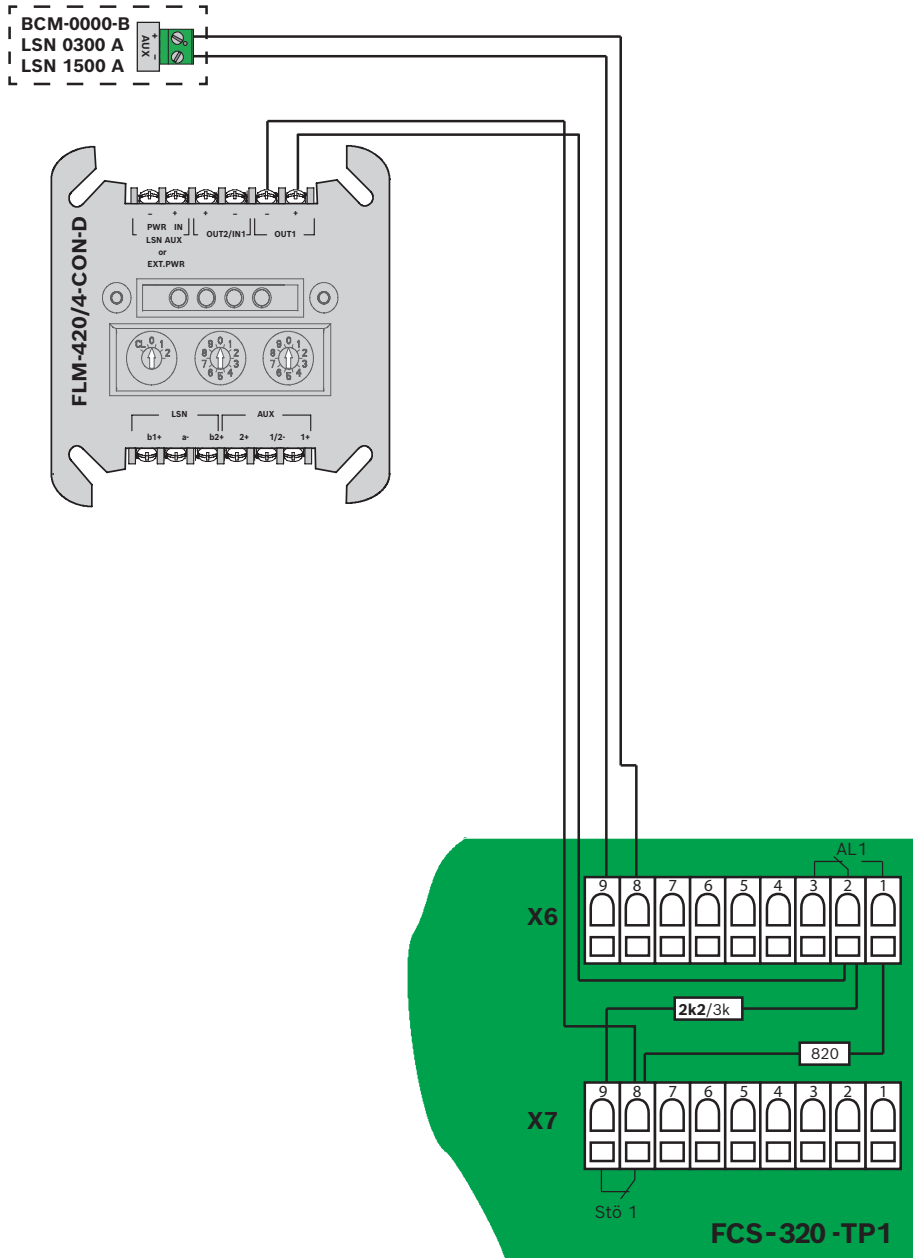
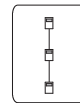


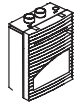
BCM-0000-B  
LSN 0300 A  
LSN 1500 A



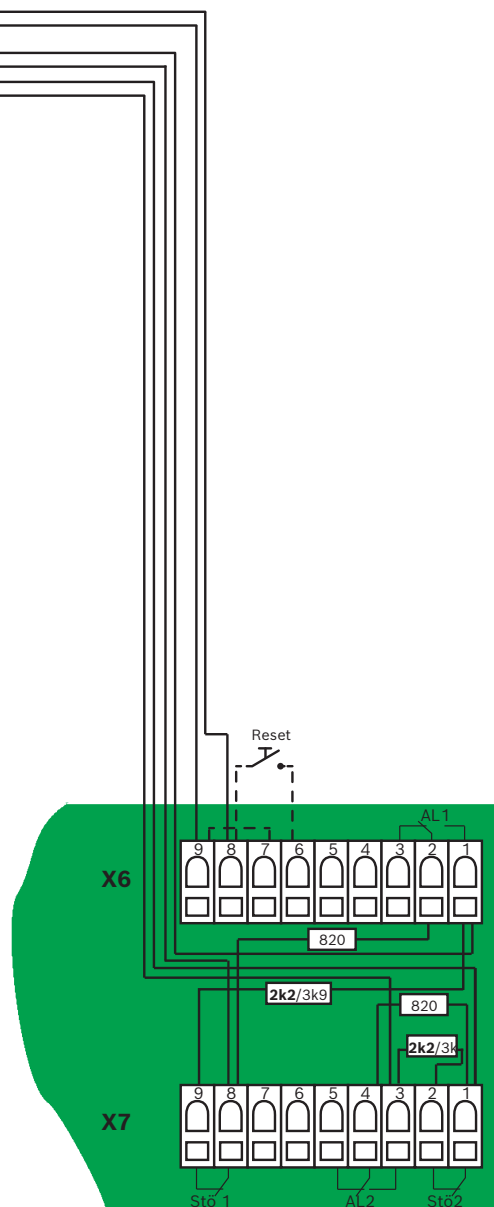
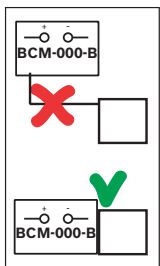
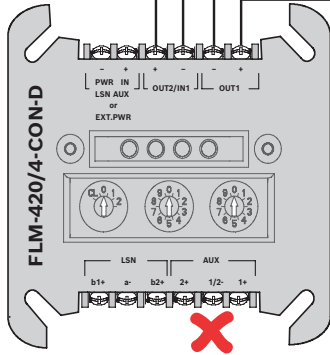
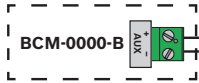


FCS-320-TP Series

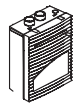




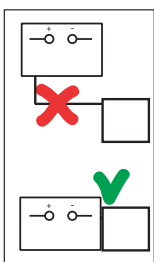
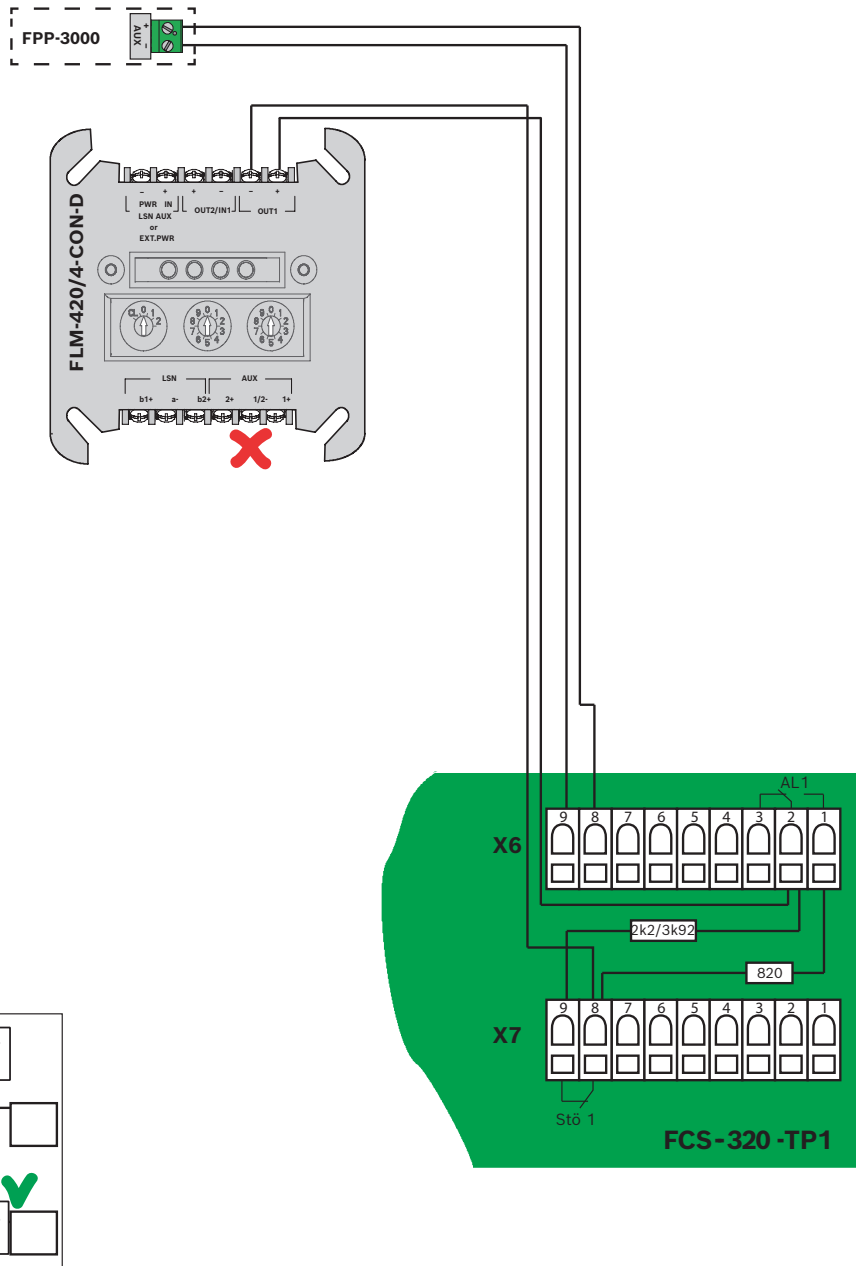
FCS-320-TP Series

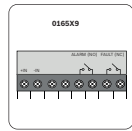


FCS-320-TP2

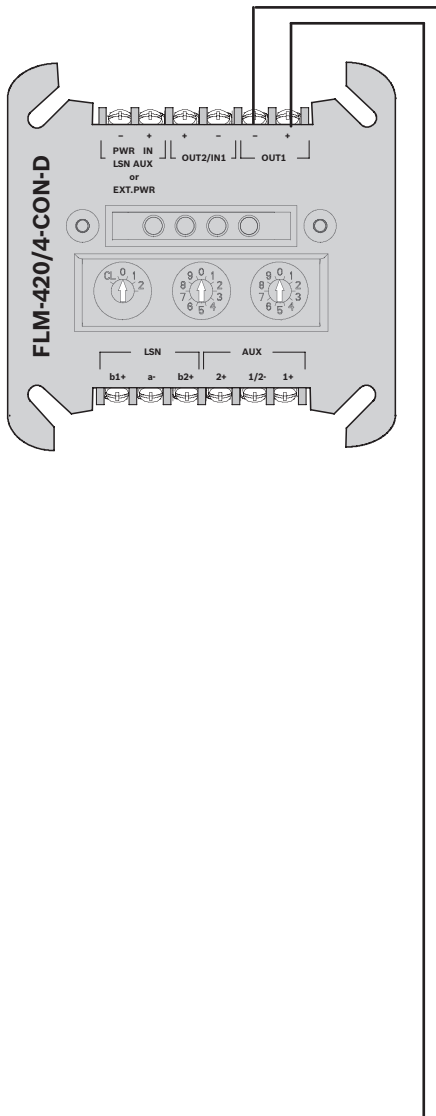
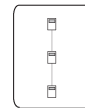


FCS-320-TP1

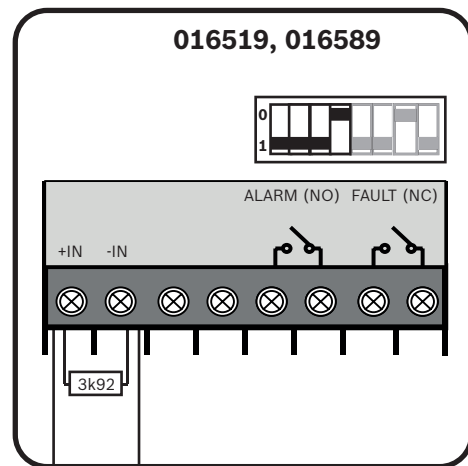


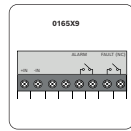


**016519, 016589  
IR3 Flame Detector**

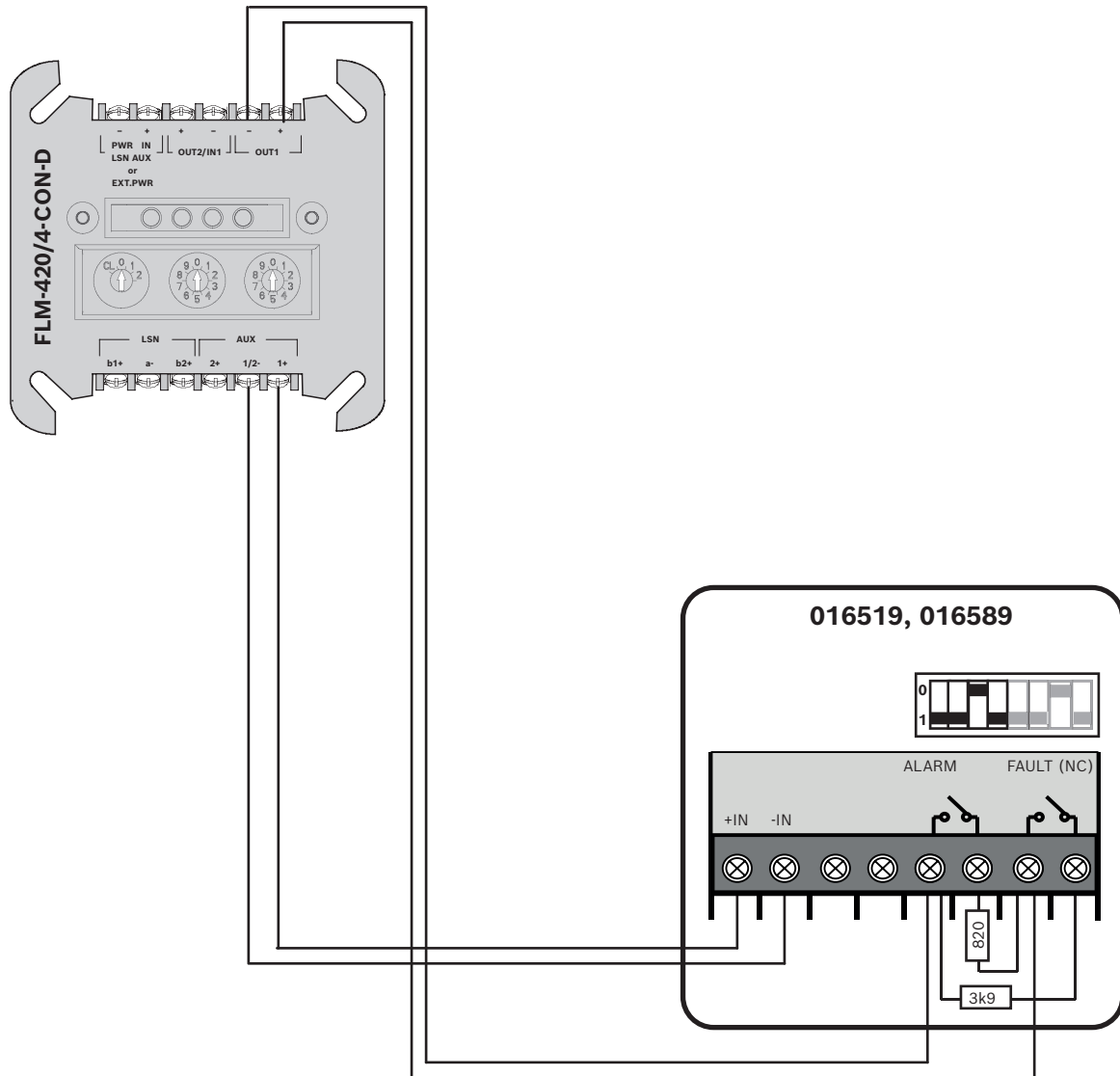
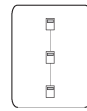


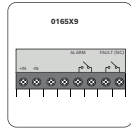
**max. 1 x 0165X9**



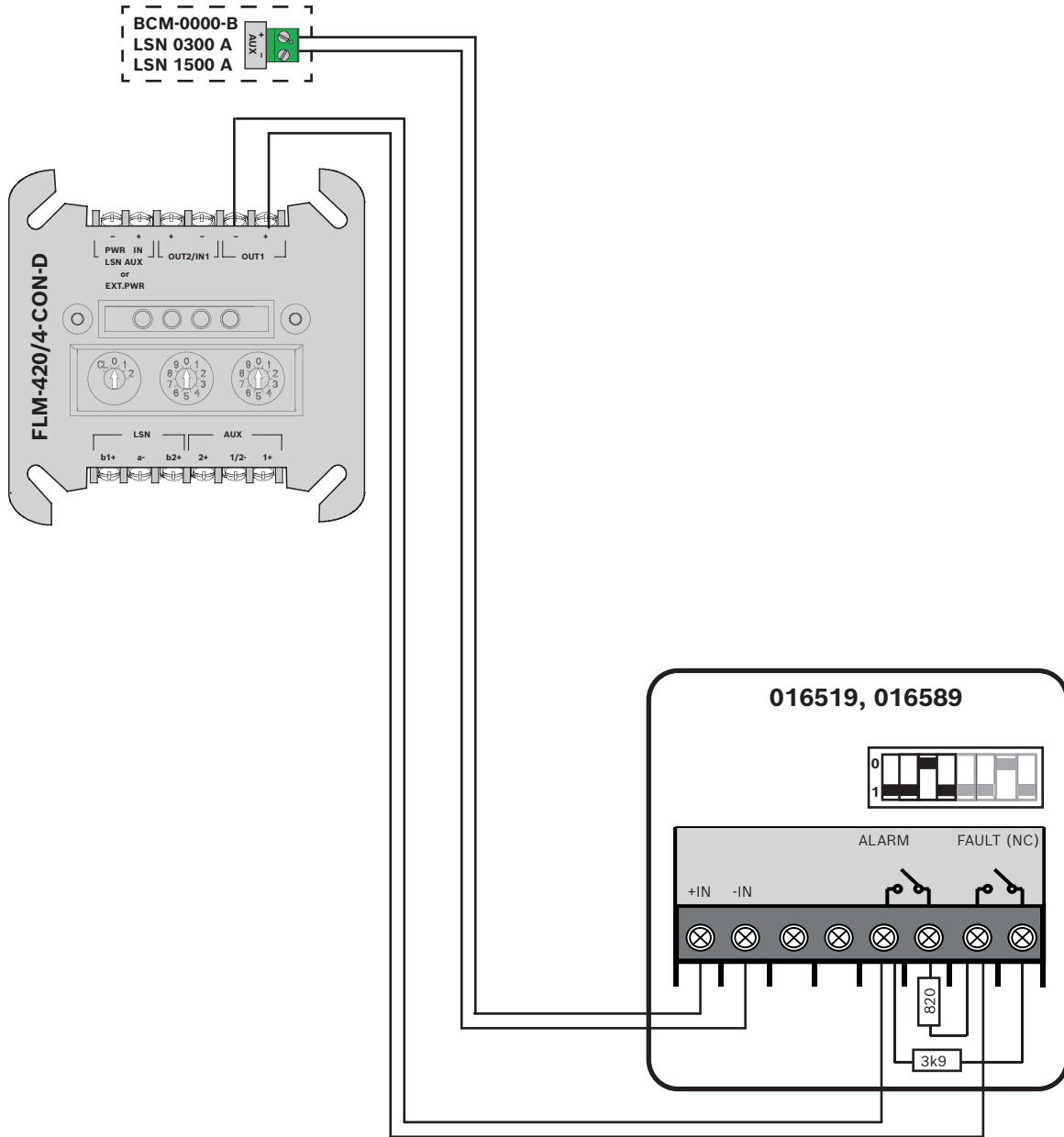
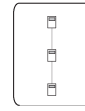


**016519, 016589  
IR3 Flame Detector**

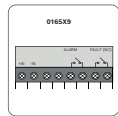




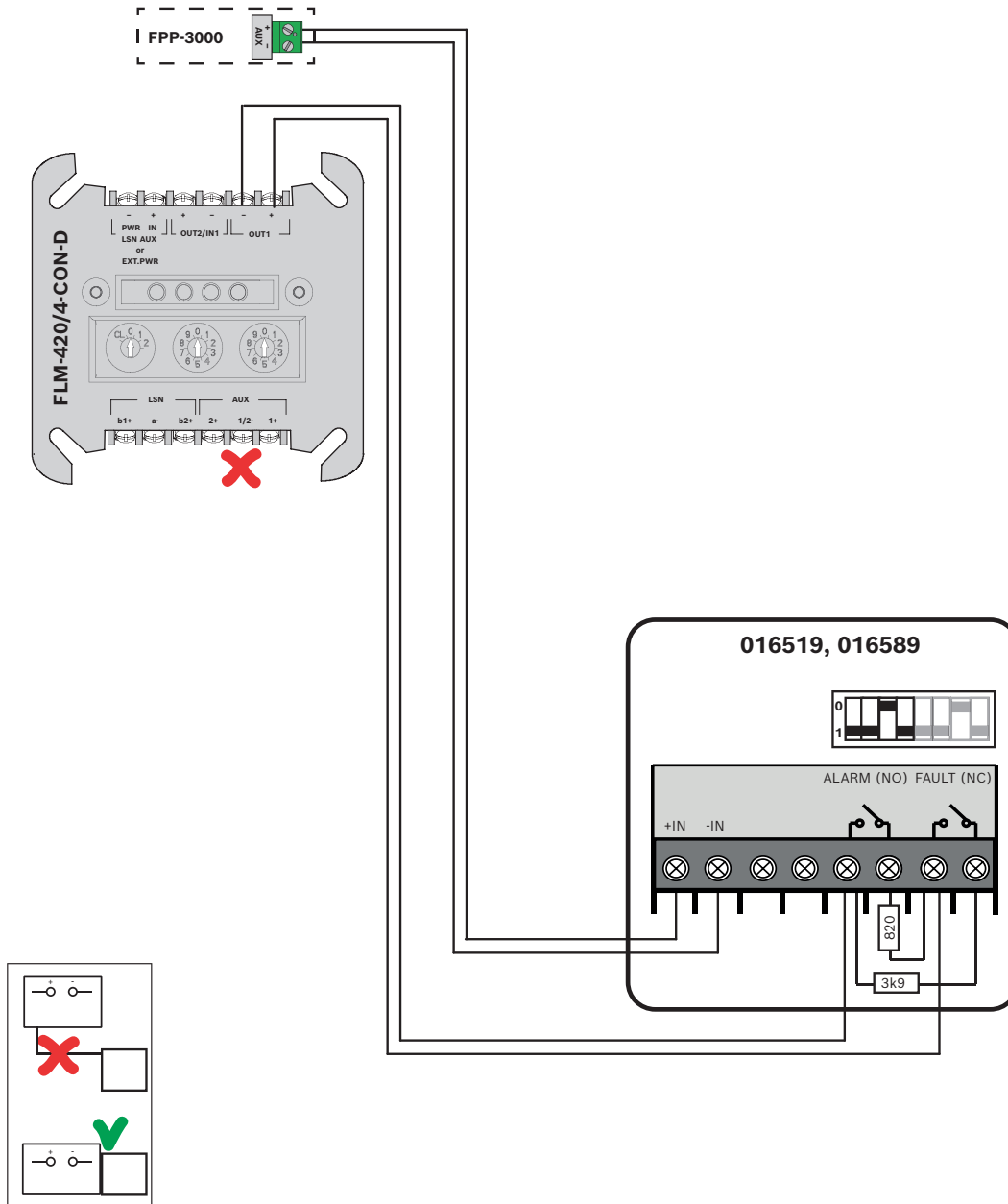
**016519, 016589  
IR3 Flame Detector**





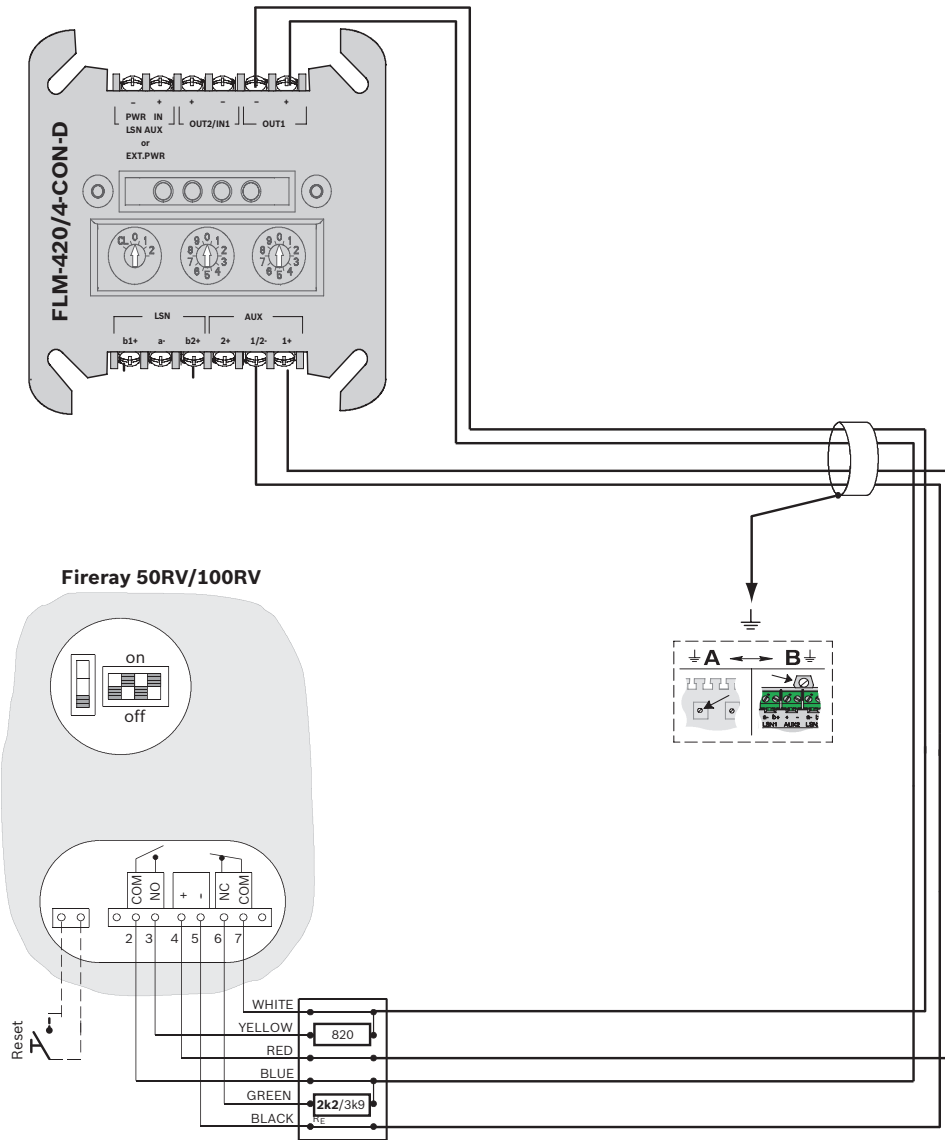


**016519, 016589  
IR3 Flame Detector**





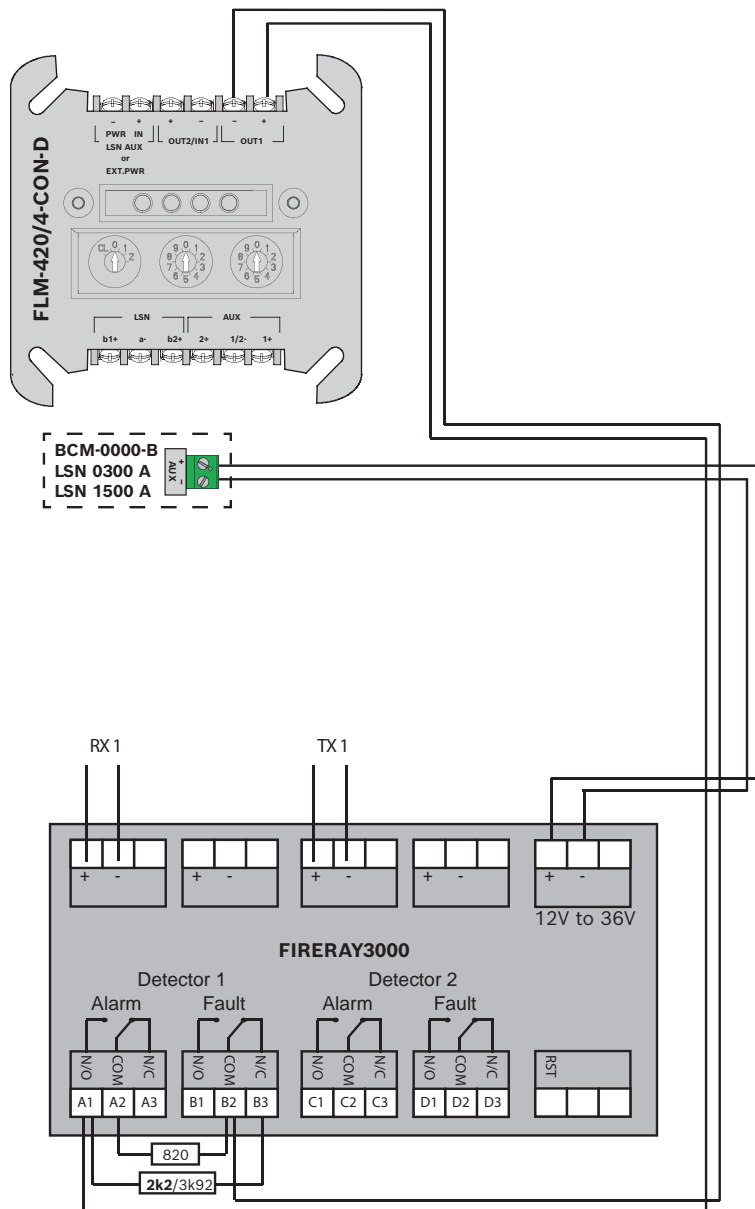
**Fireray 50RV  
Fireray 100RV**





**FIRERAY3000**

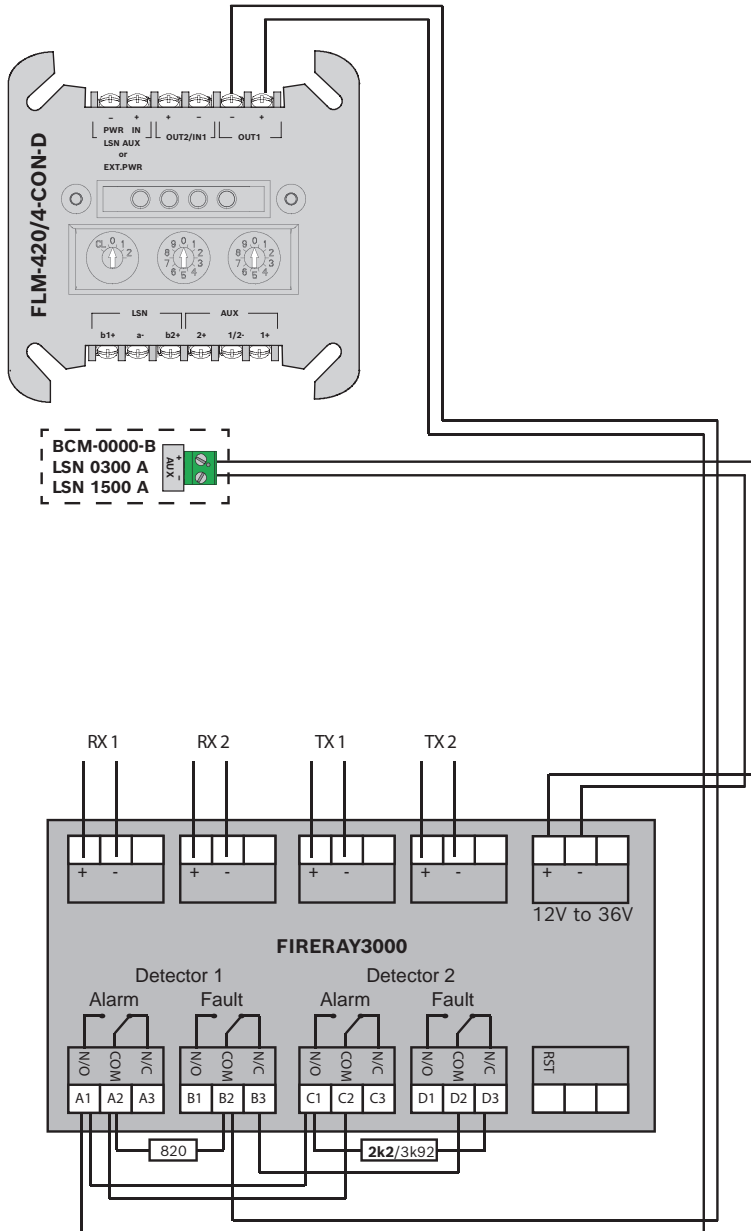
1 x





**FIRERAY3000**

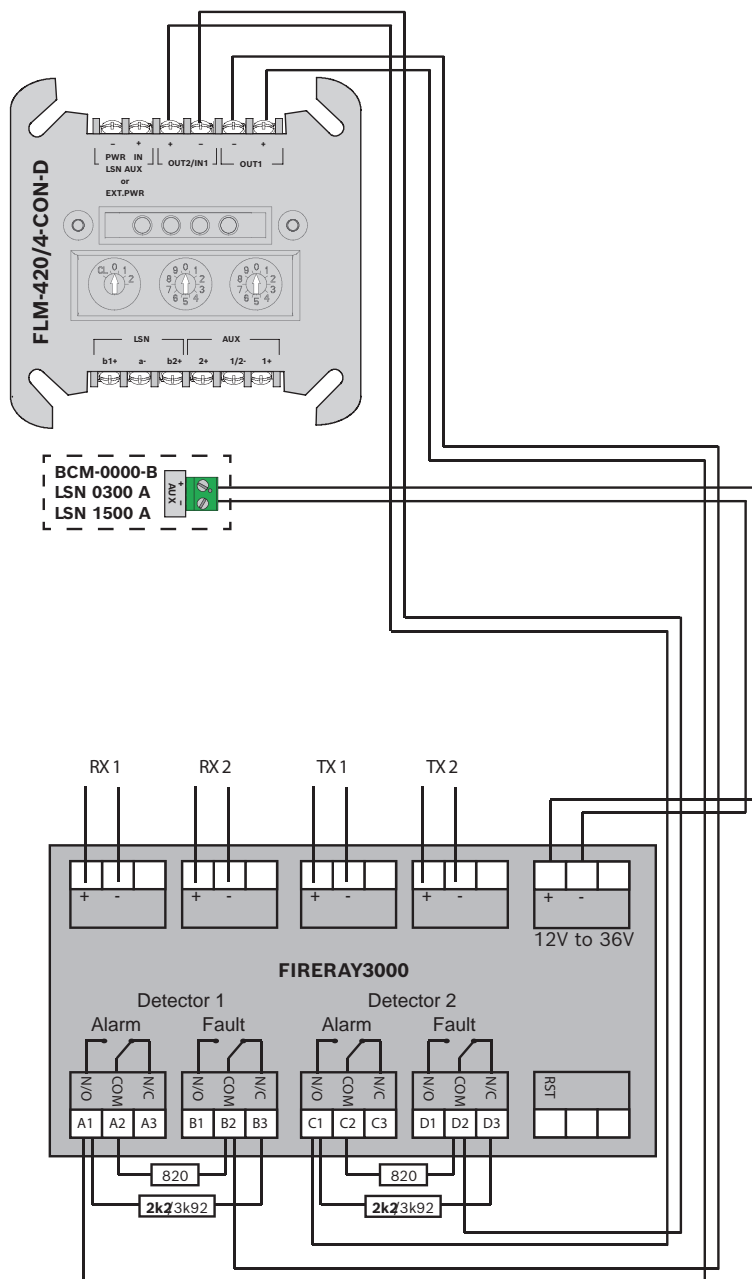
2 x **OUT1**





**FIRERAY3000**

2 x **OUT1+2**

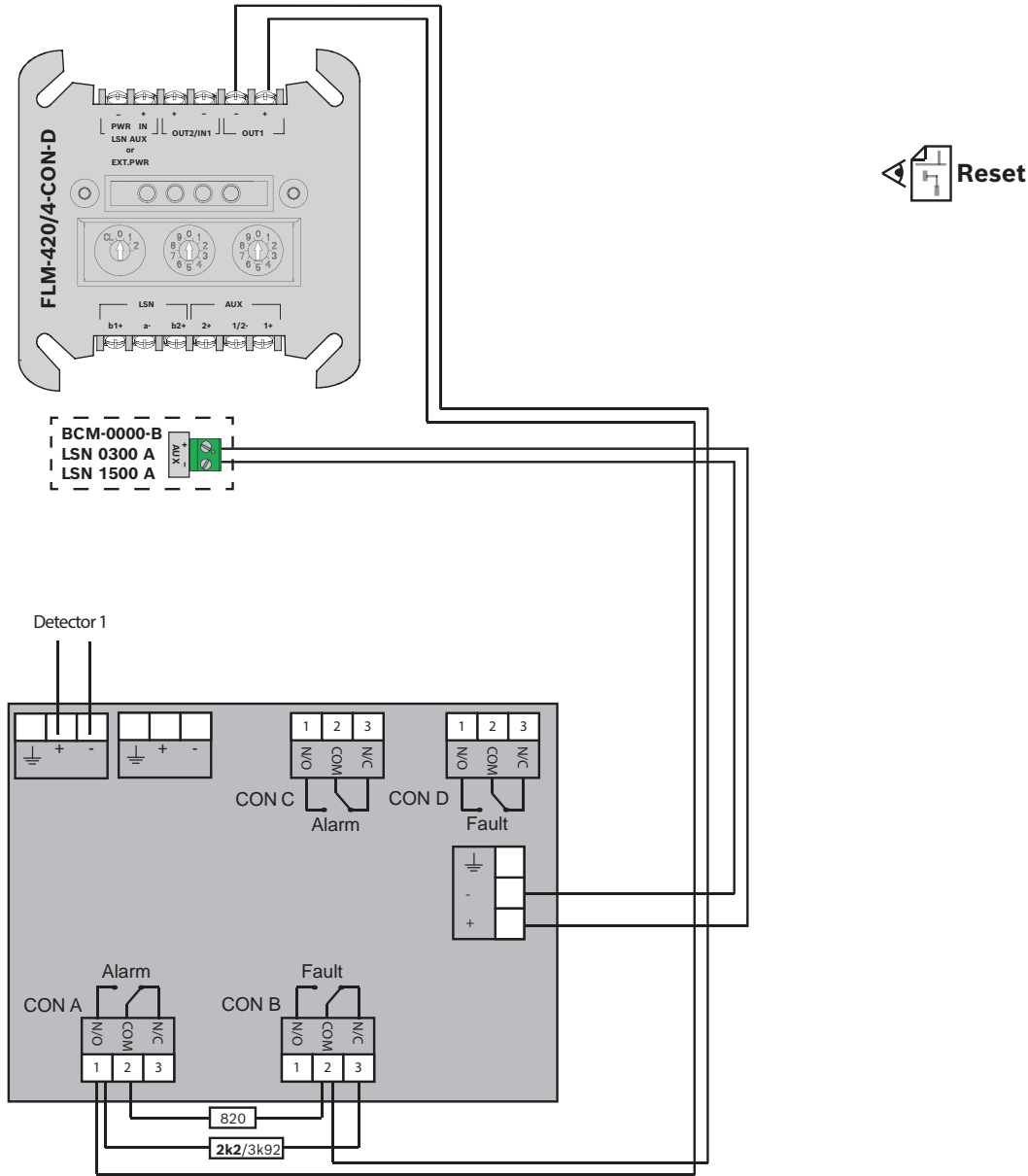


**Reset action**



**FIRERAY5000**

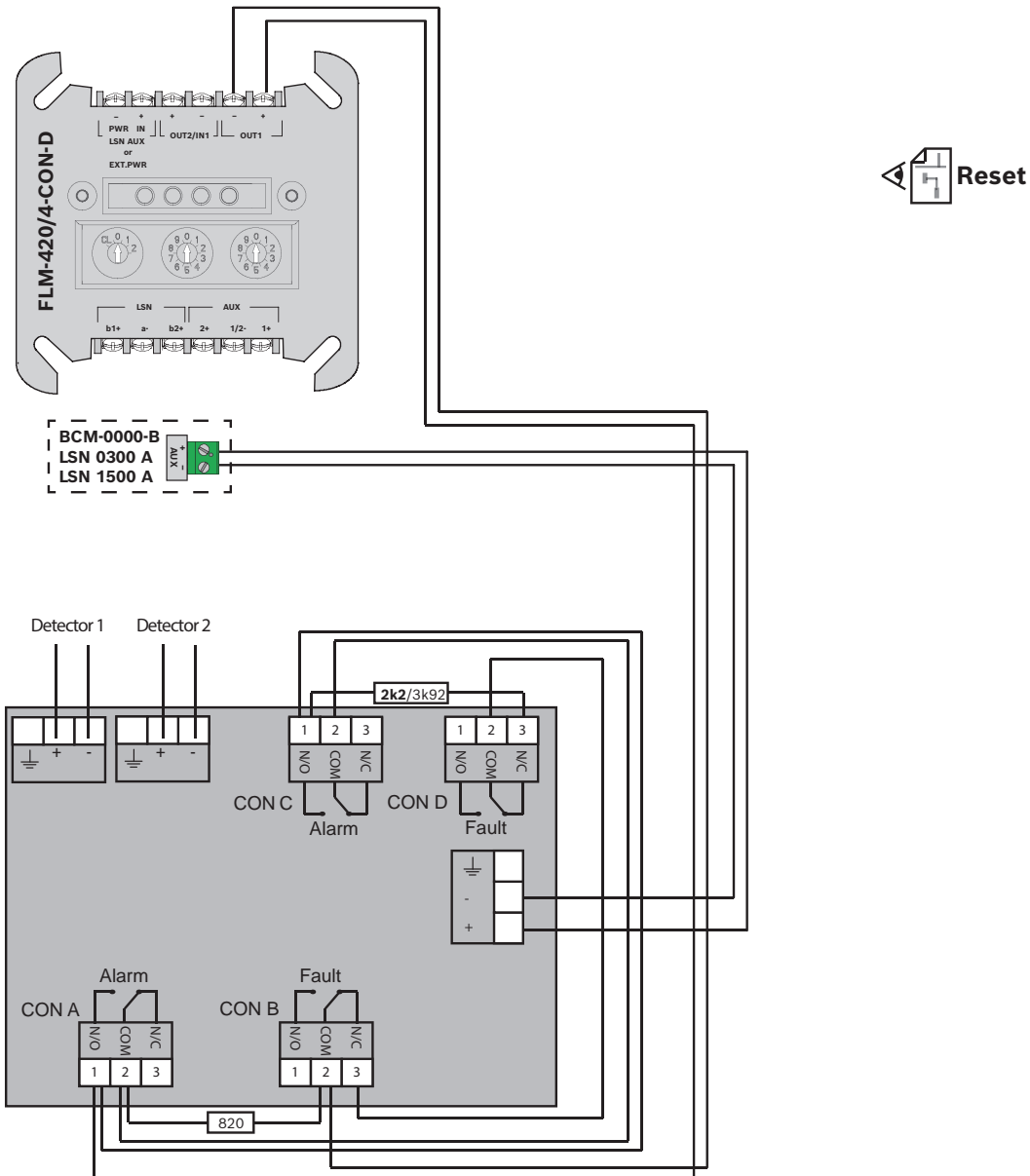
1 x

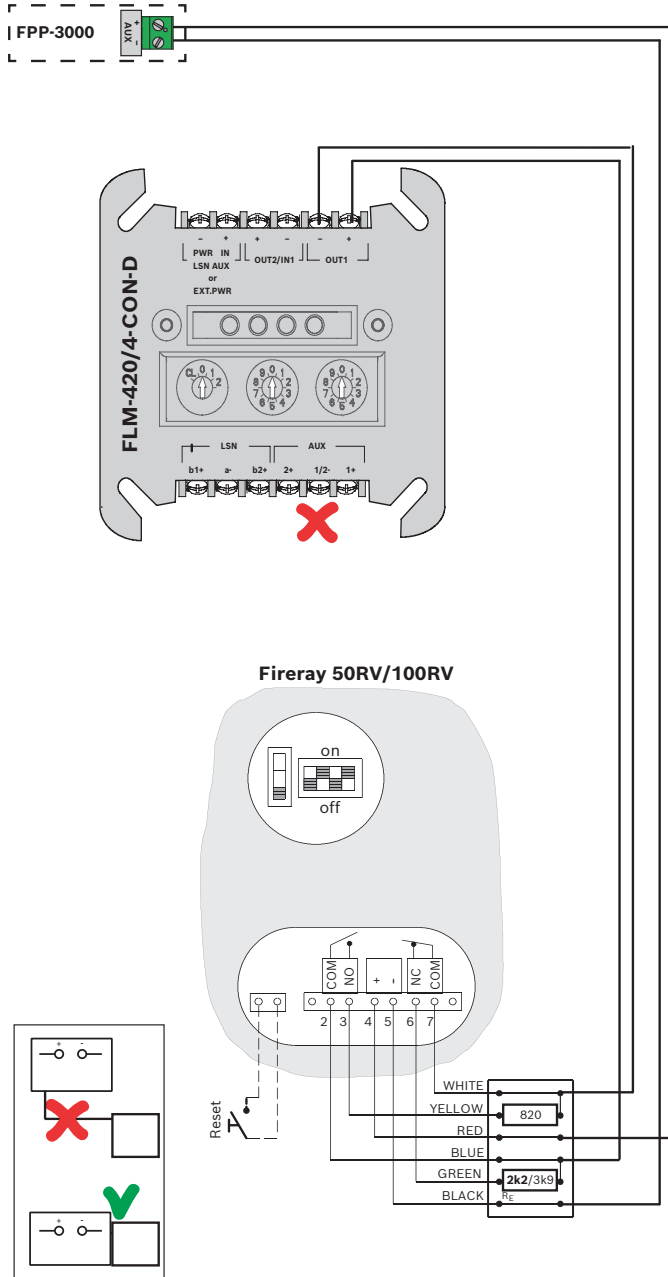




**FIRERAY5000**

**2 x OUT1**



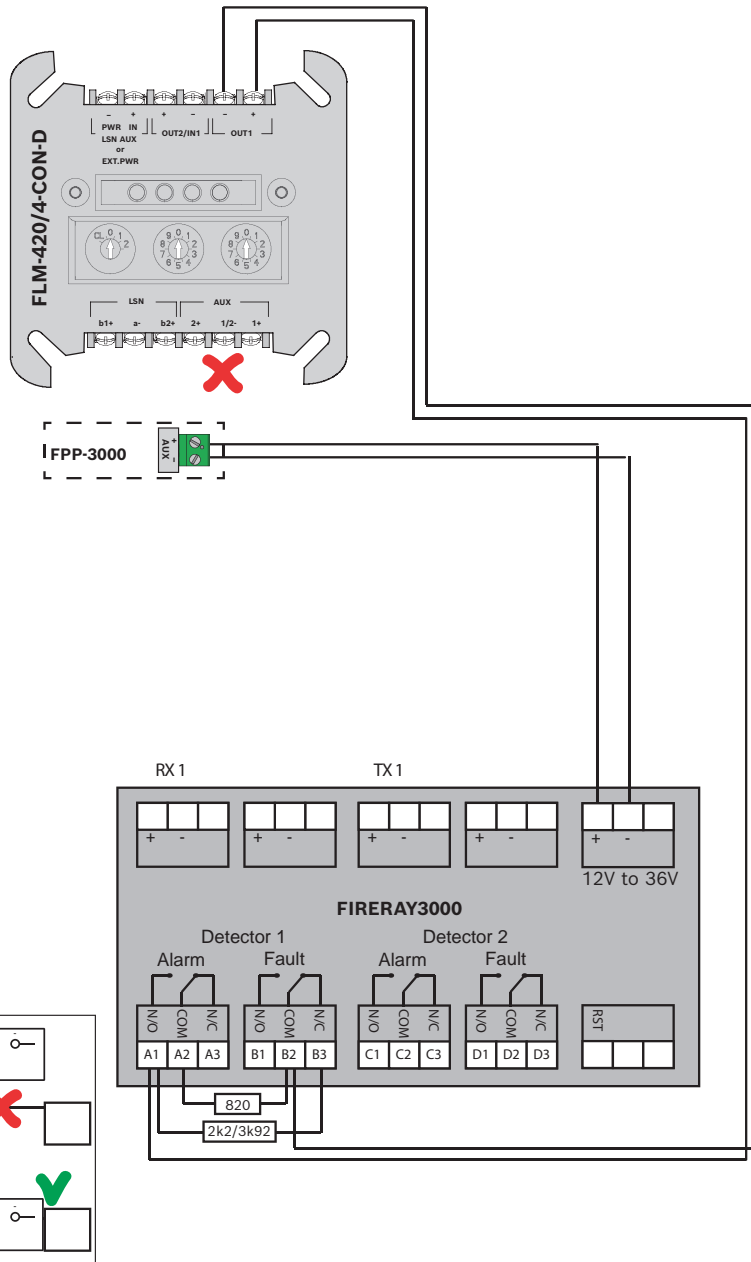




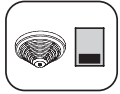


**FIRERAY3000**

1 x

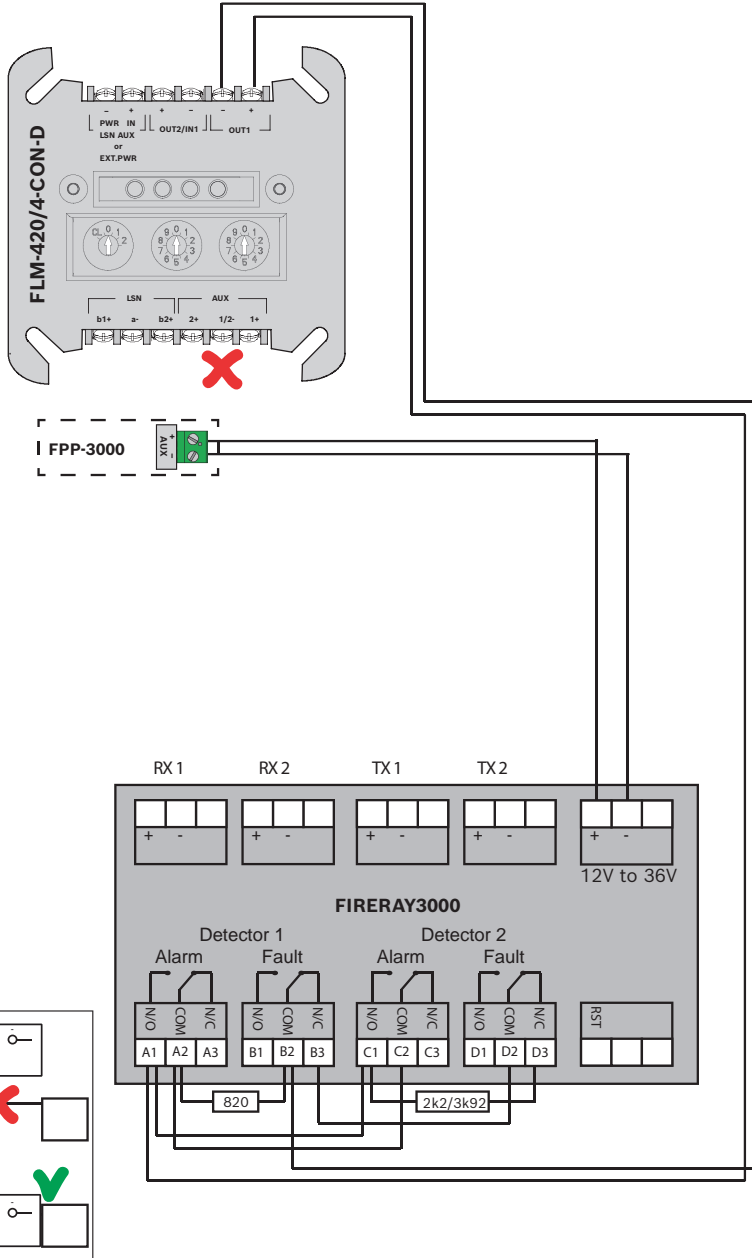


**Reset action**

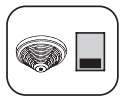


**FIRERAY3000**

2 x  **OUT1**

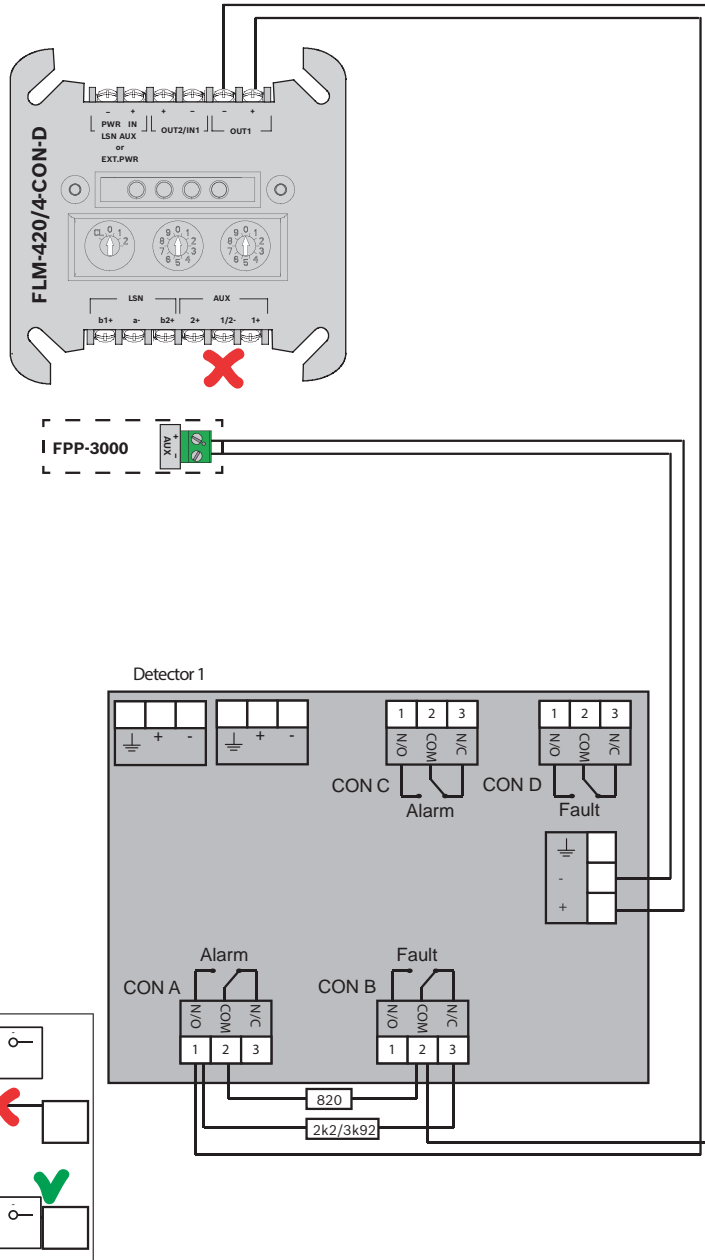


 **Reset action**



**FIRERAY5000**

1 x

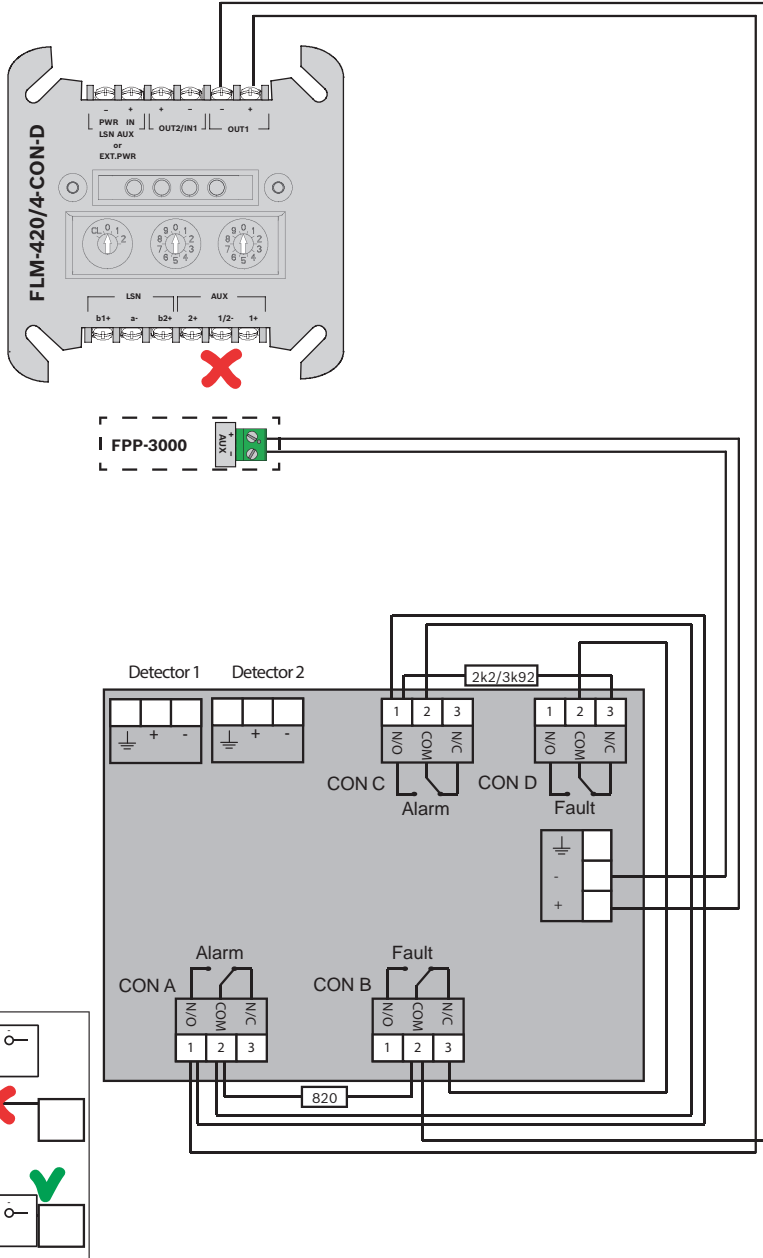


Reset action

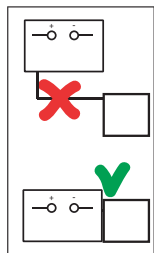


**FIRERAY5000**

**2 x OUT1**

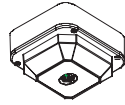


**Reset action**

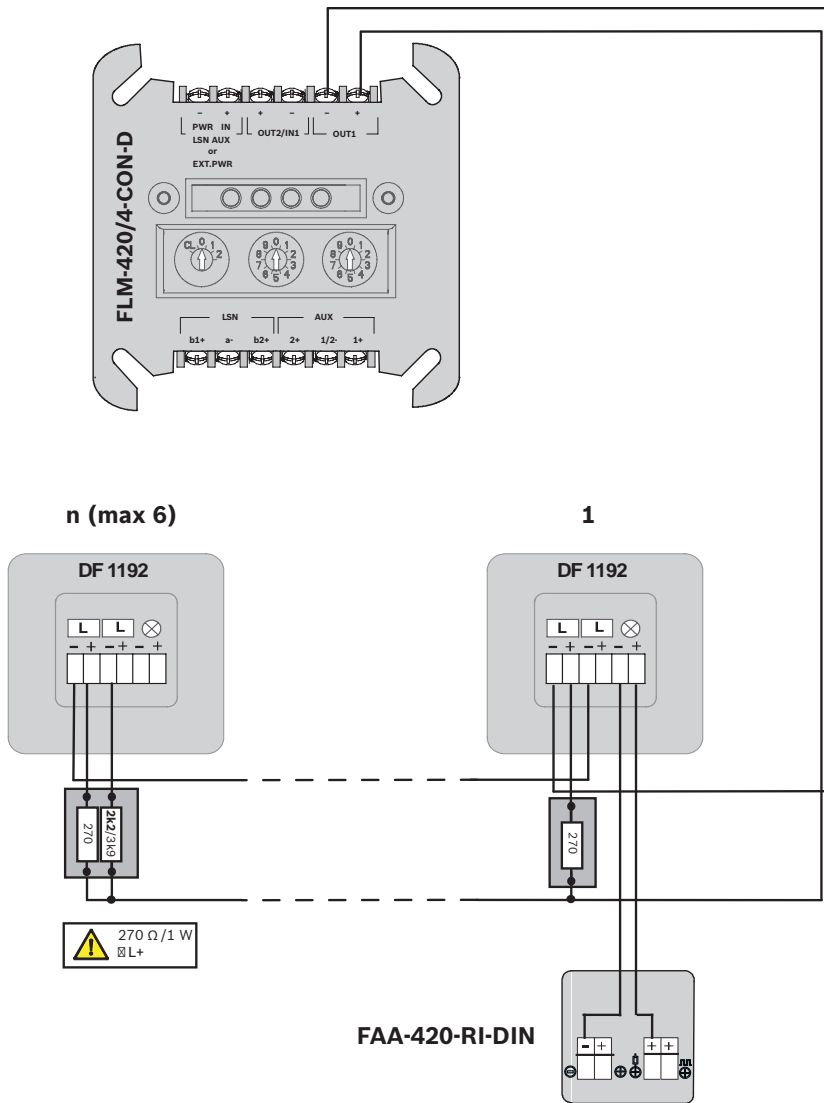


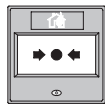
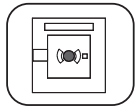




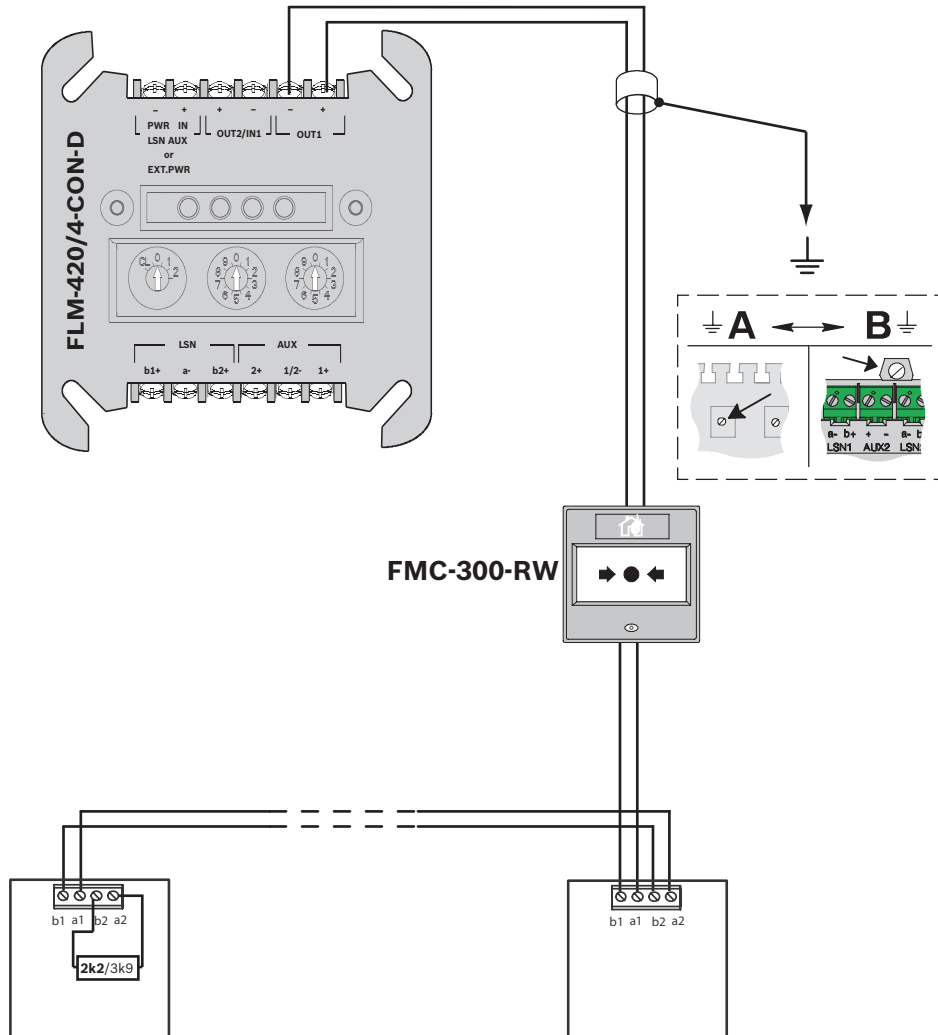
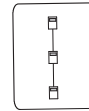


**DF 1192**





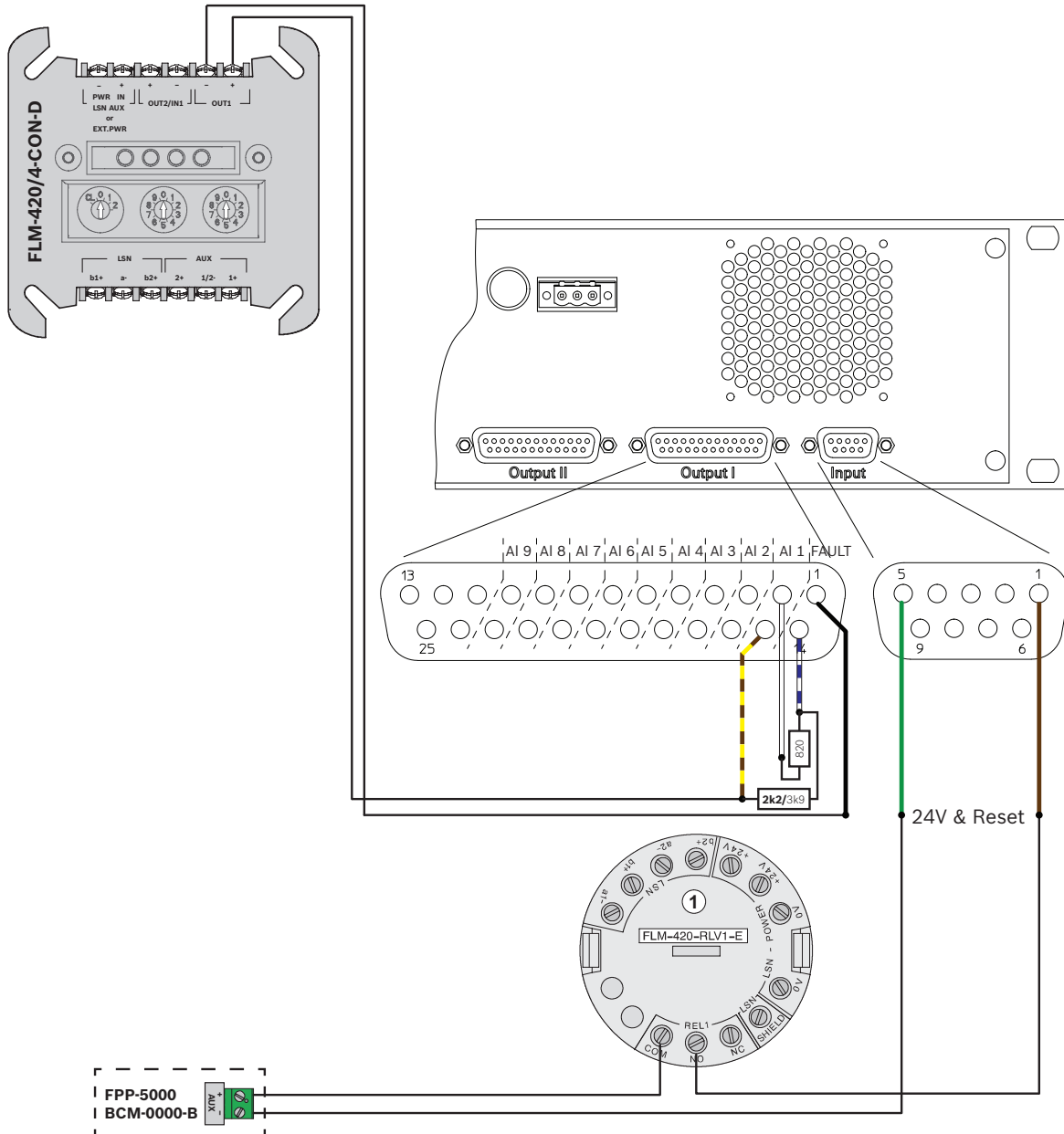
**FMC-300-RW**

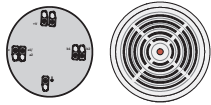




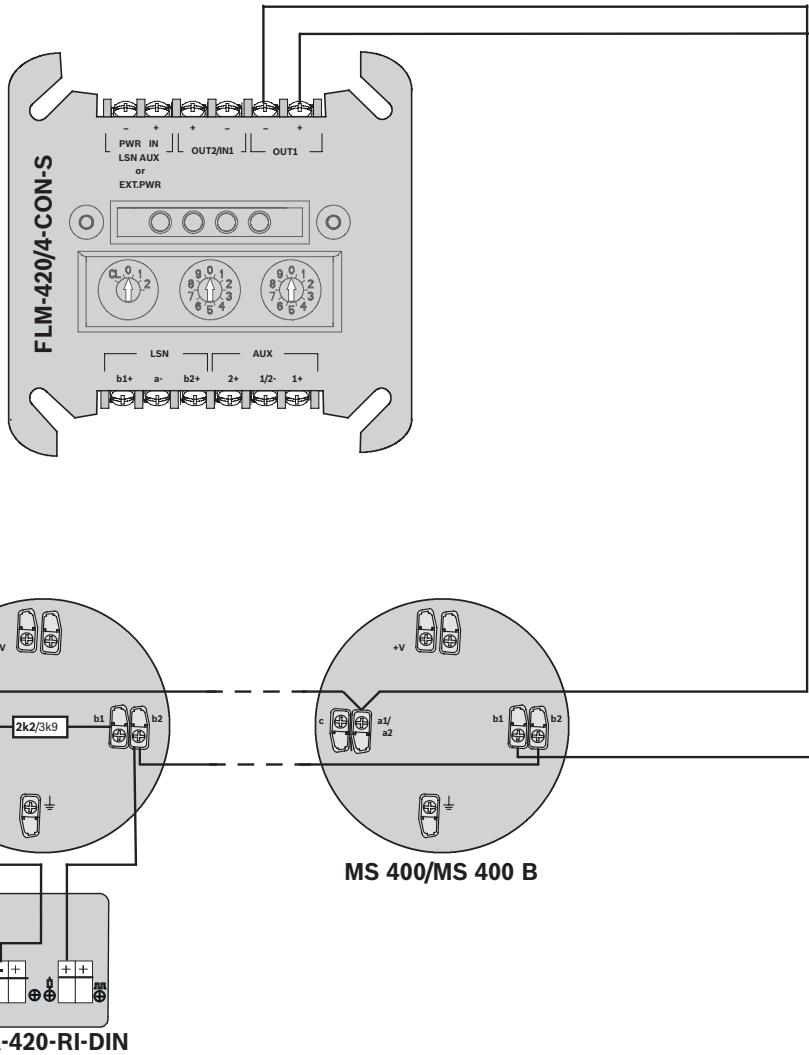


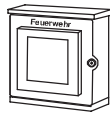
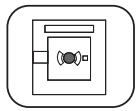
N4387A



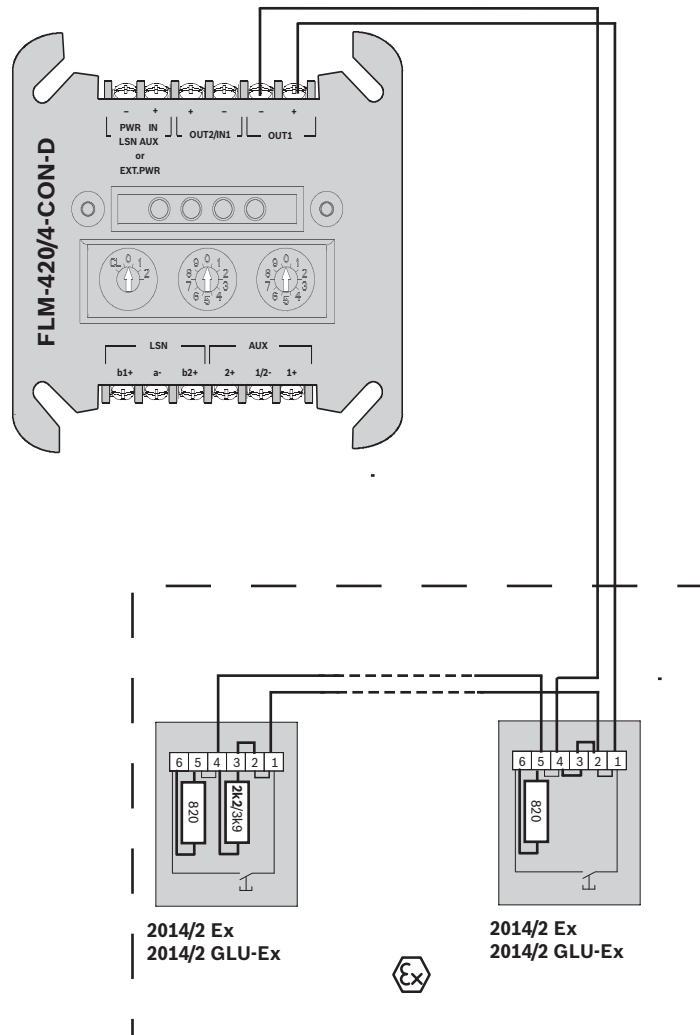
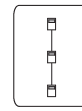


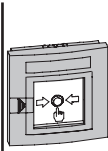
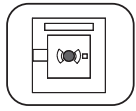
MSS 400, MSS 400 B  
 FCH-320-T320  
 FCH-T320-R470, FCH-T320-FSA  
 FCP-O320, FCP-O320-R470  
 FCP-OC320, FCP-OC320-R470  
 FCP-OT320, FCP-OT320-R470



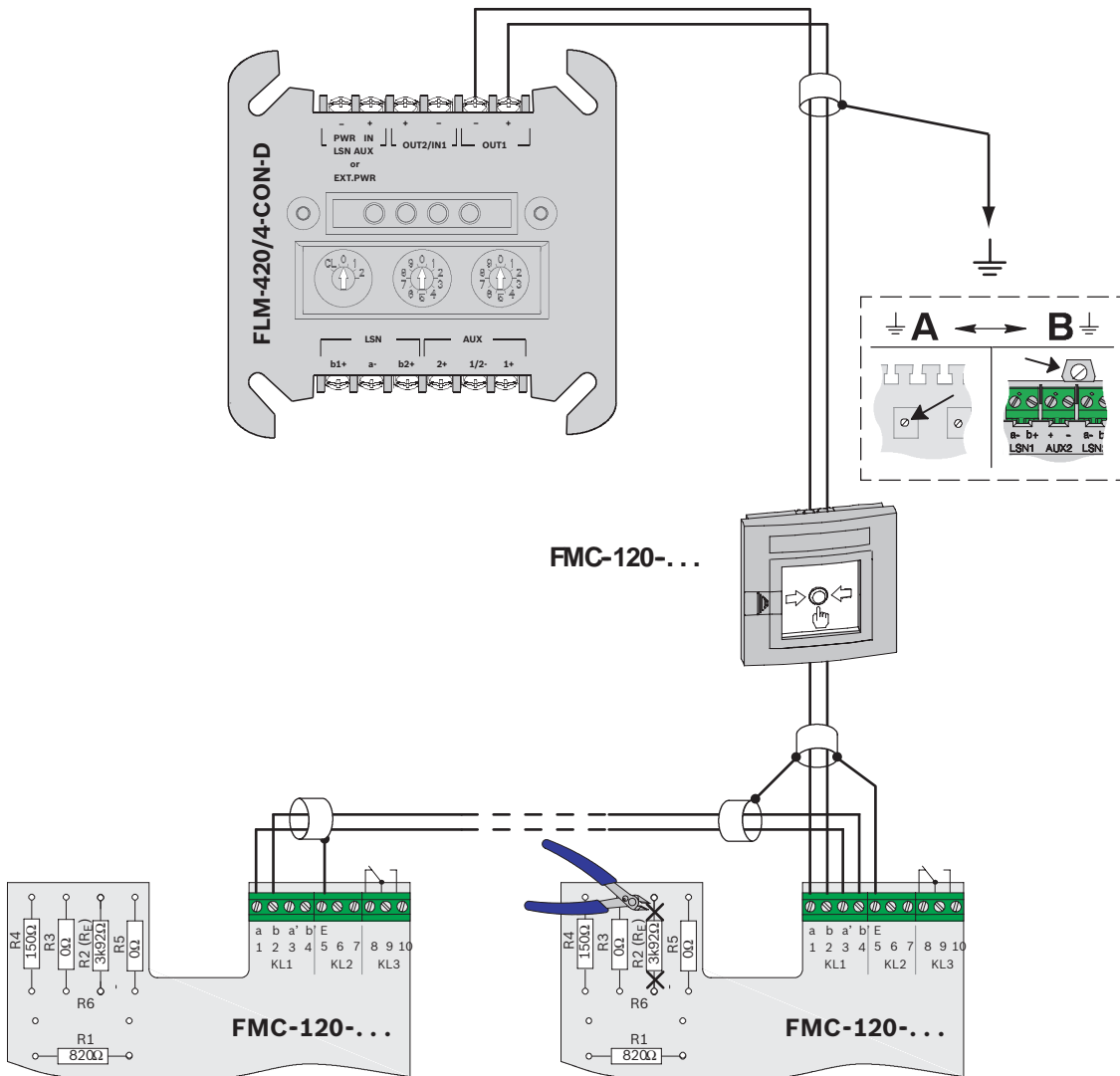
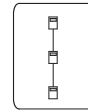


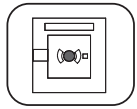
**2014/2 Ex**  
**2014/2 GLU-Ex**



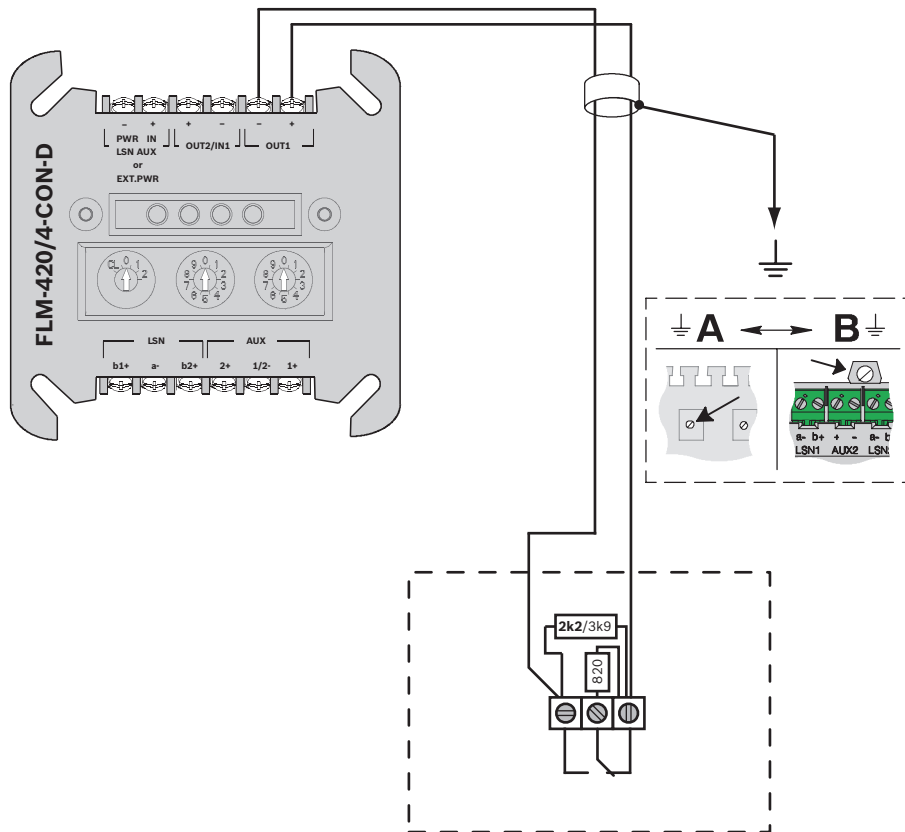
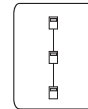


FMC-120-DKM-G-R FMC-120-DKM-G-Y  
 FMC-120-DKM-H-R FMC-120-EST-G-B  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B



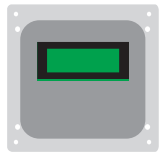


NO



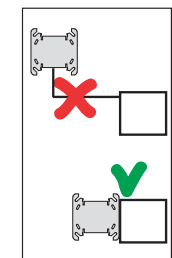
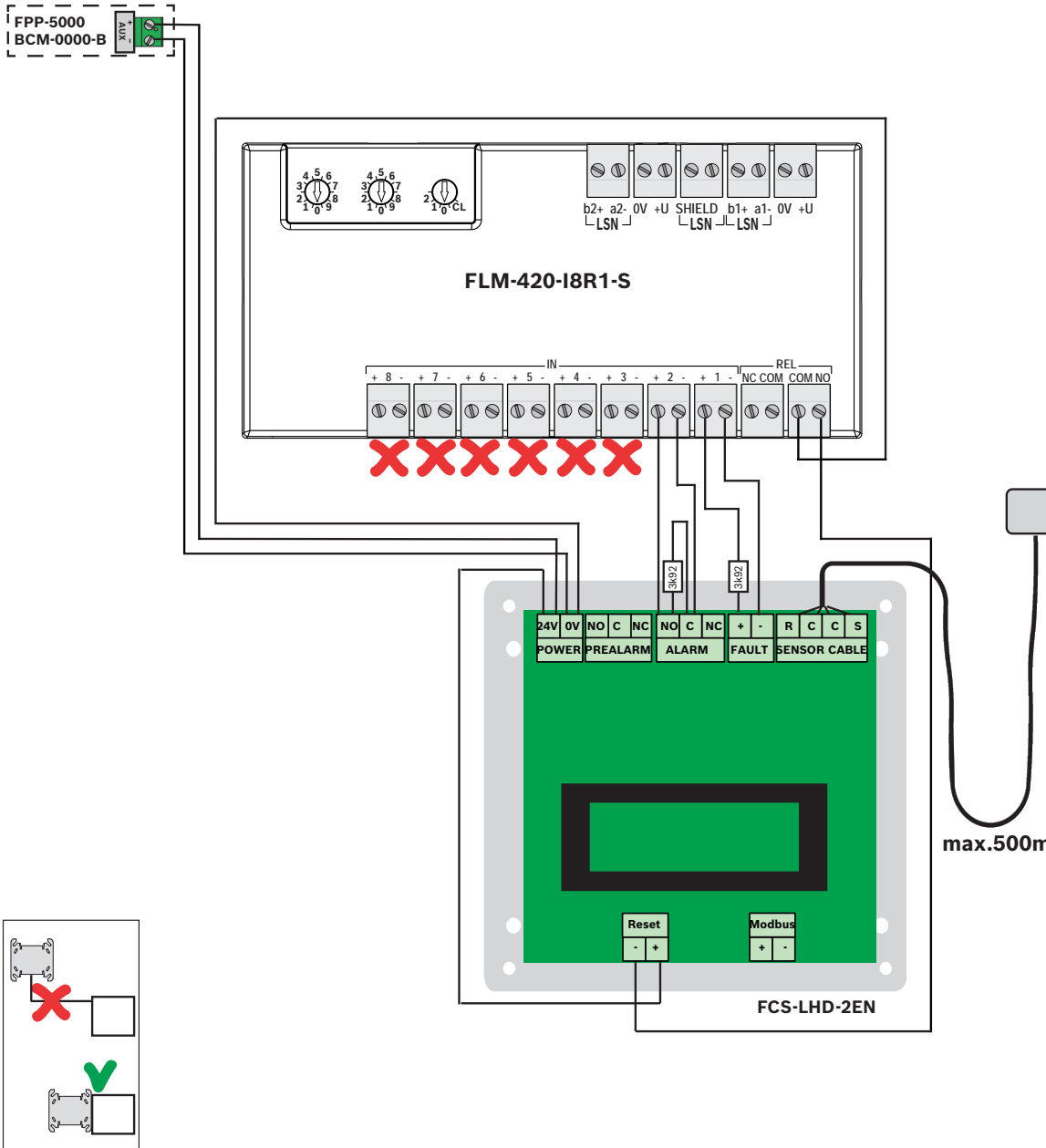
2.5.2

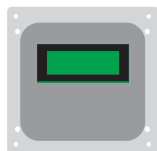
FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





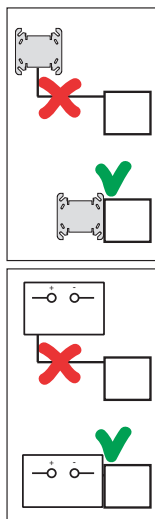
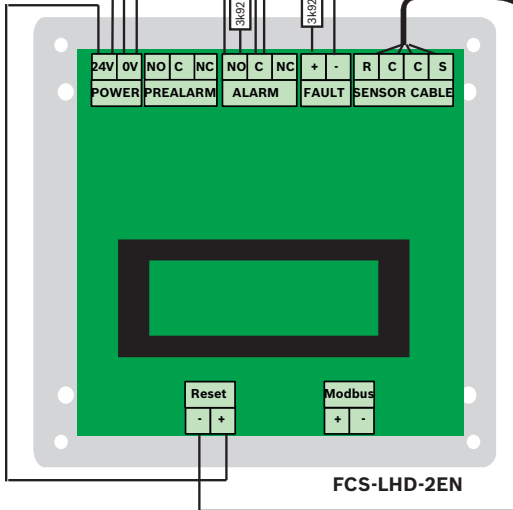
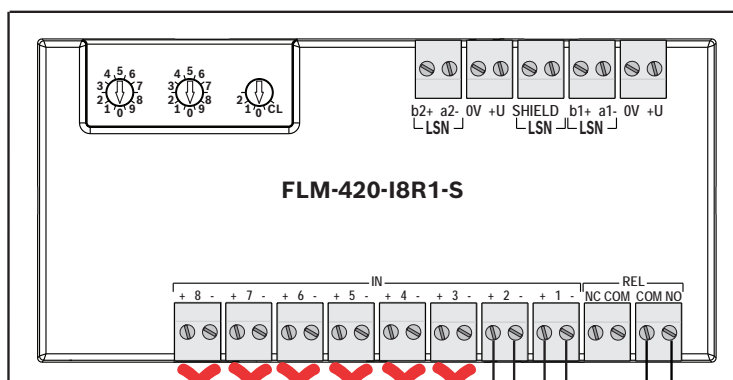
ProReact EN Analogue

FCS-LHD-2EN

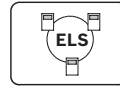


ELS

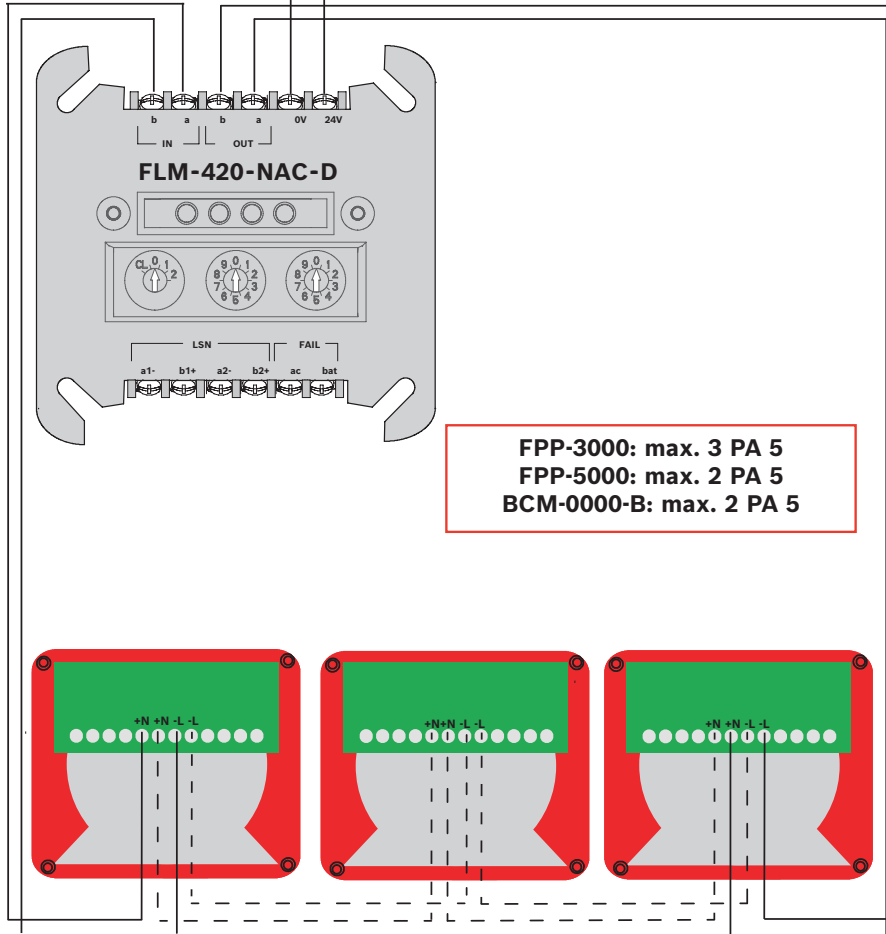
FPP-3000(ZSP135-DR)  
FPP-5000  
BCM-0000-B



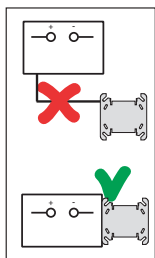
### 2.5.3 FLM-420-NAC-D/S



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



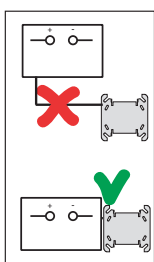
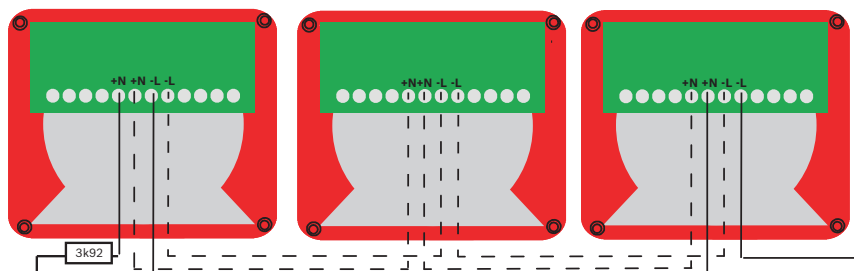
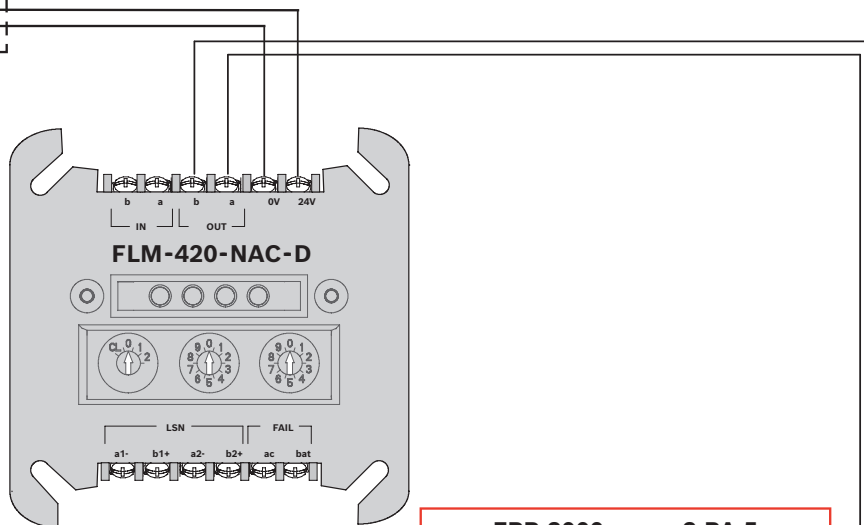
**FPP-3000: max. 3 PA 5**  
**FPP-5000: max. 2 PA 5**  
**BCM-0000-B: max. 2 PA 5**

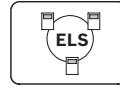




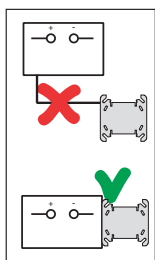
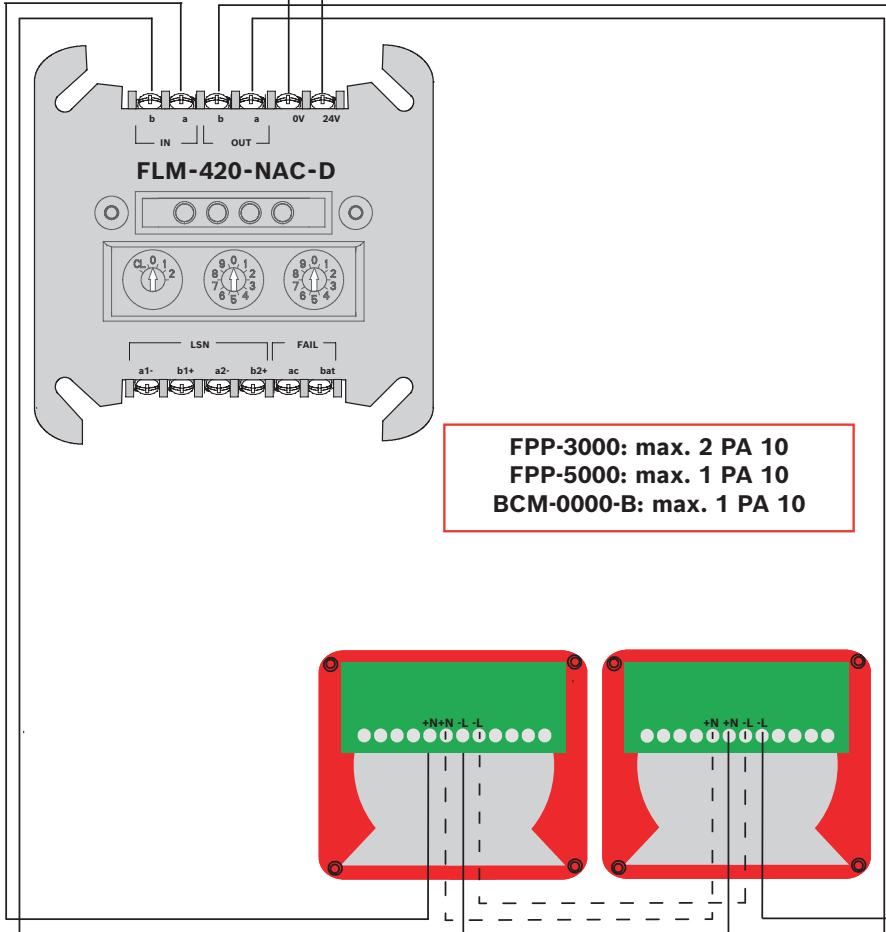


FPP-3000  
FPP-5000  
BCM-0000-B



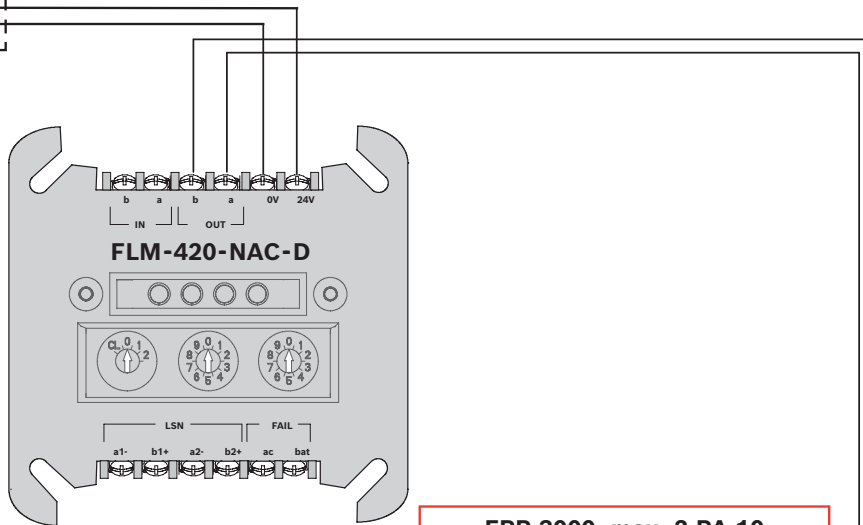


FPP-3000(ZSP135-DR)  
 FPP-5000  
 BCM-0000-B

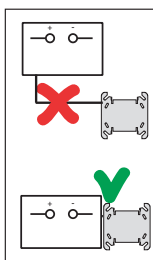
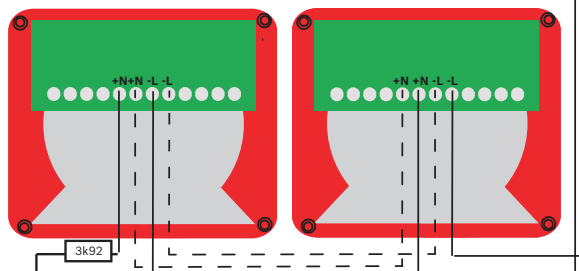


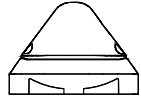


FPP-3000  
FPP-5000  
BCM-0000-B

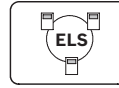


**FPP-3000: max. 2 PA 10**  
**FPP-5000: max. 1 PA 10**  
**BCM-0000-B: max. 1 PA 10**

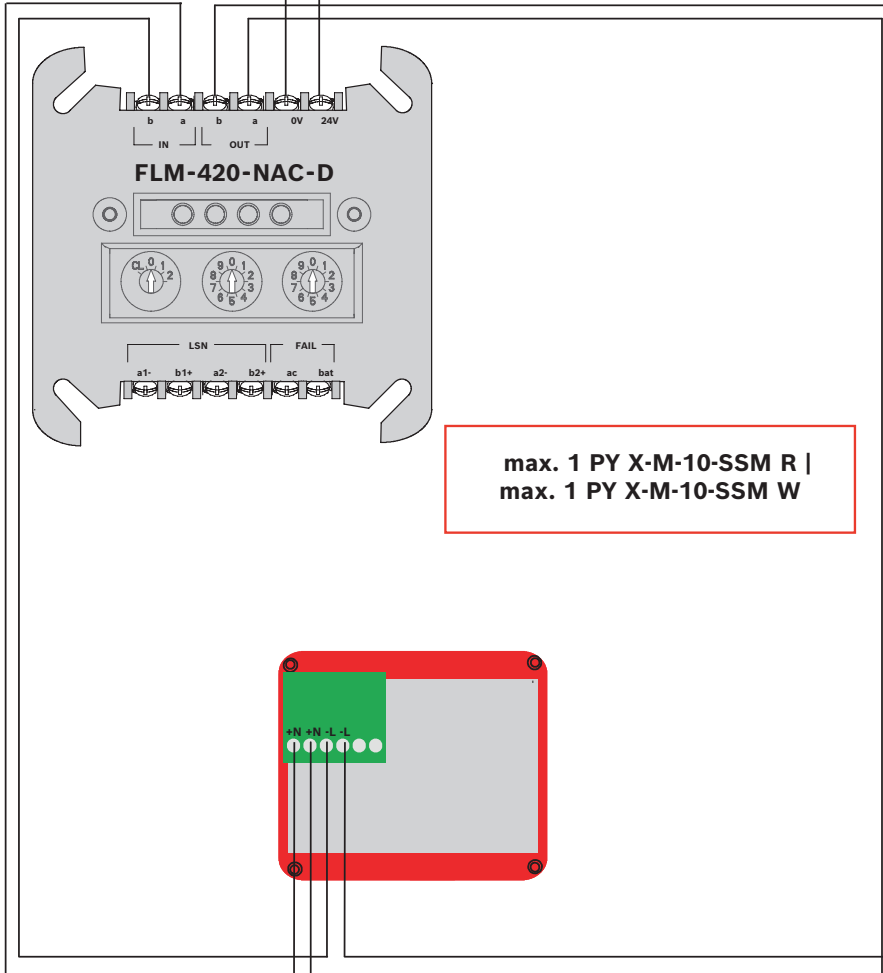




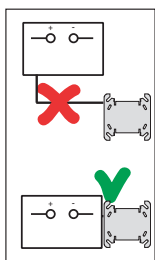
**PY X-M-10-SSM R**  
**PY X-M-10-SSM W**

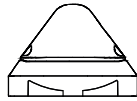


FPP-3000(ZSP-135-DR)  
FPP-5000  
BCM-0000-B



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

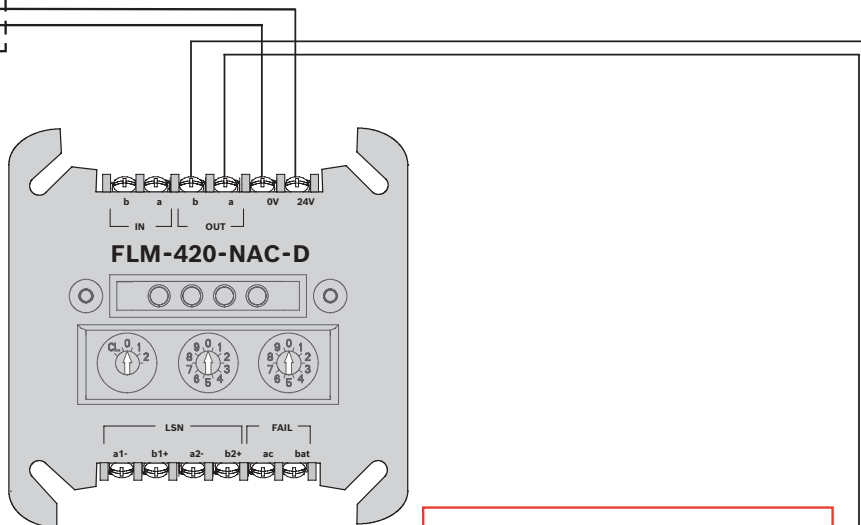




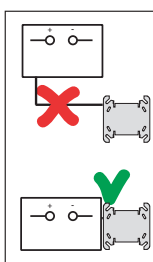
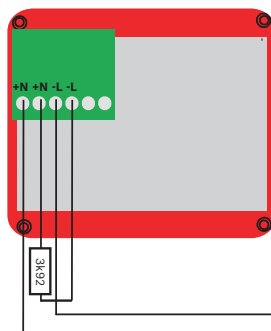
**PY X-M-10-SSM R**  
**PY X-M-10-SSM W**



FPP-3000  
 FPP-5000  
 BCM-0000-B

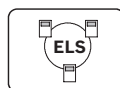


**max. 1 PY X-M-10-SSM R |**  
**max. 1 PY X-M-10-SSM W**

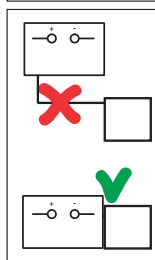
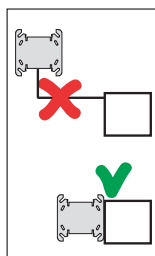
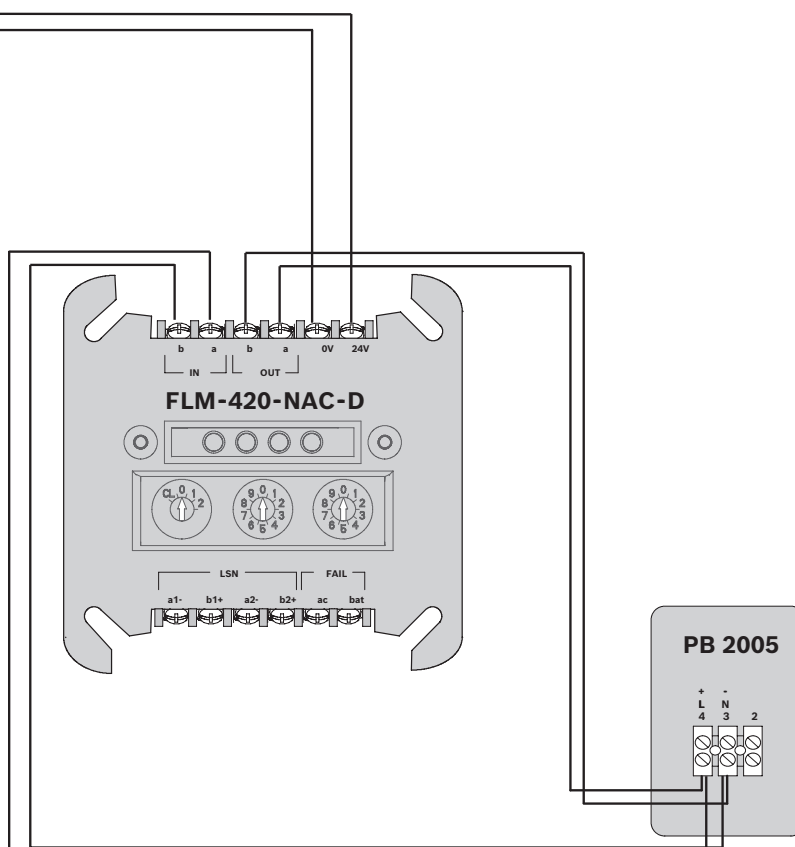




PB 2005

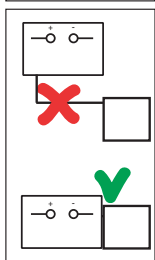
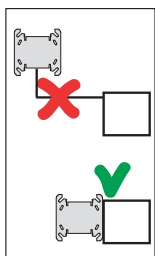
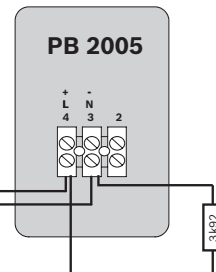
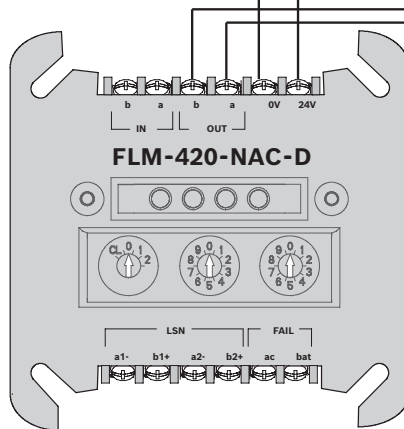


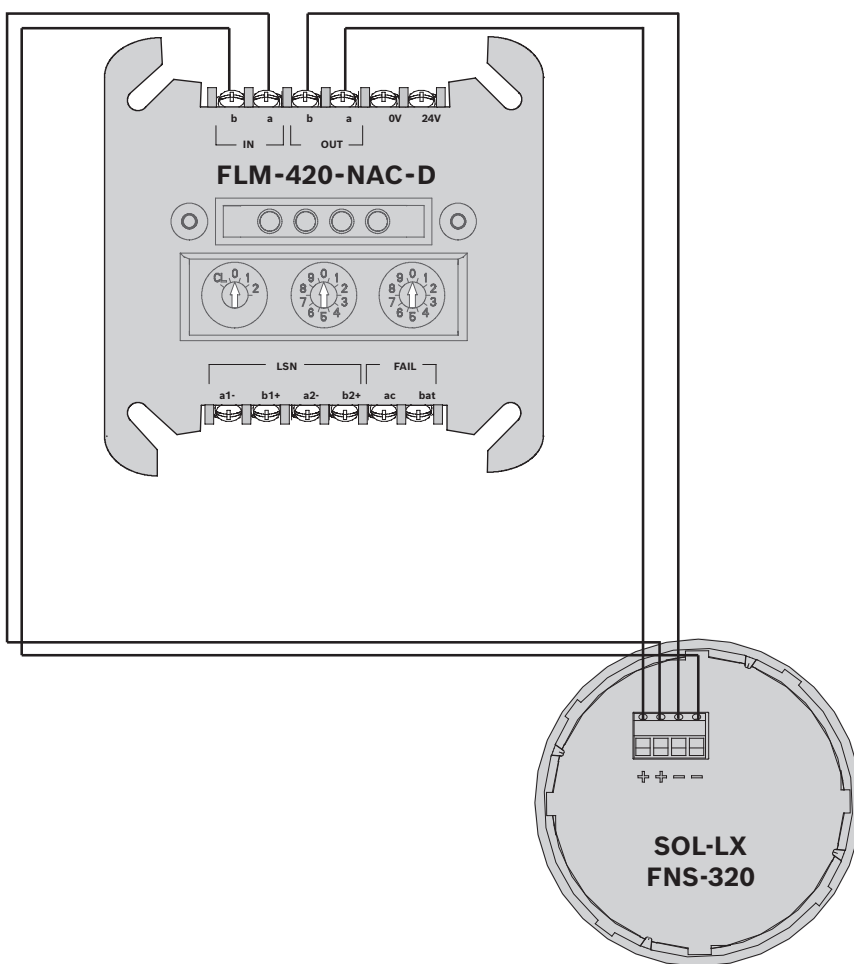
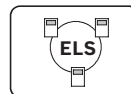
FPP-5000  
BCM-0000-B



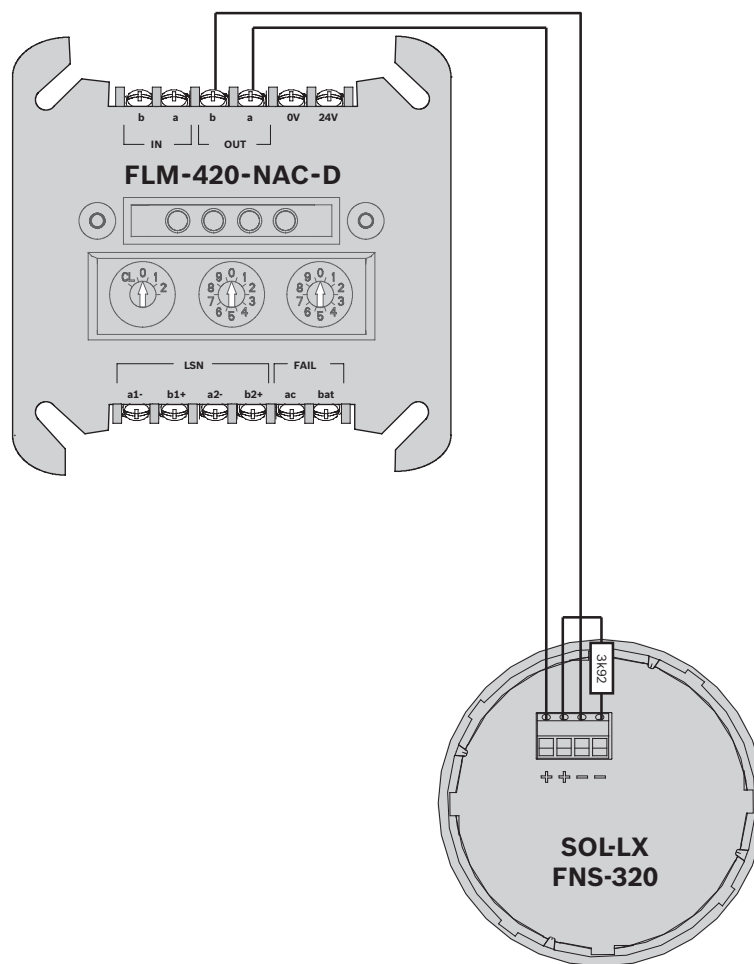
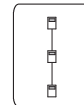


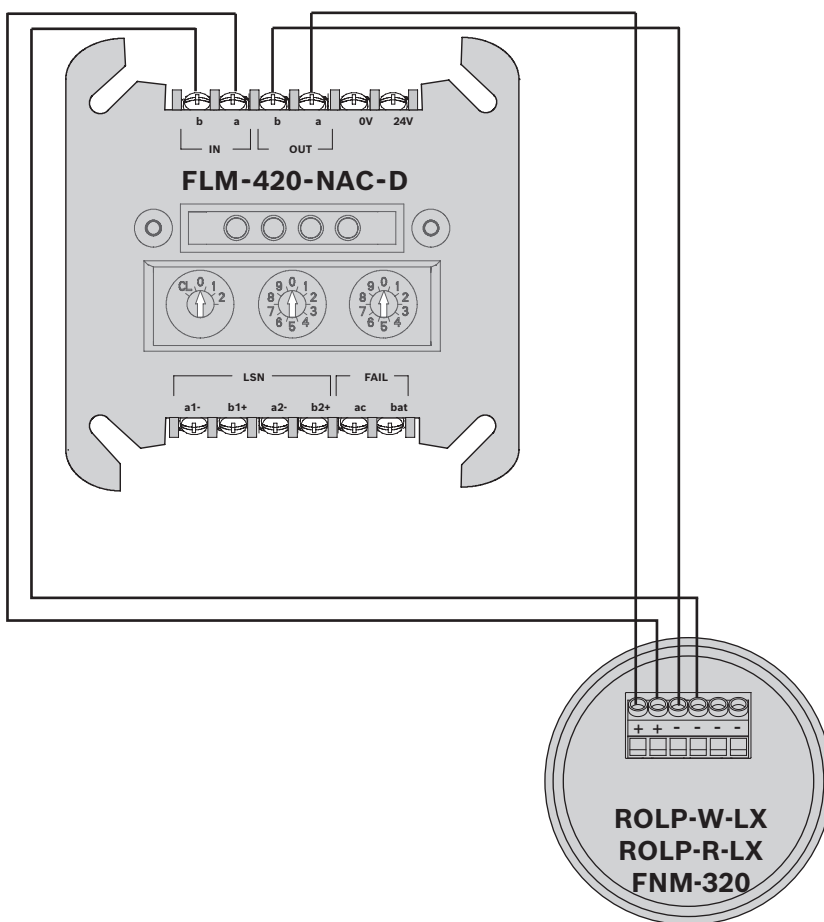
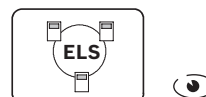
PB 2005





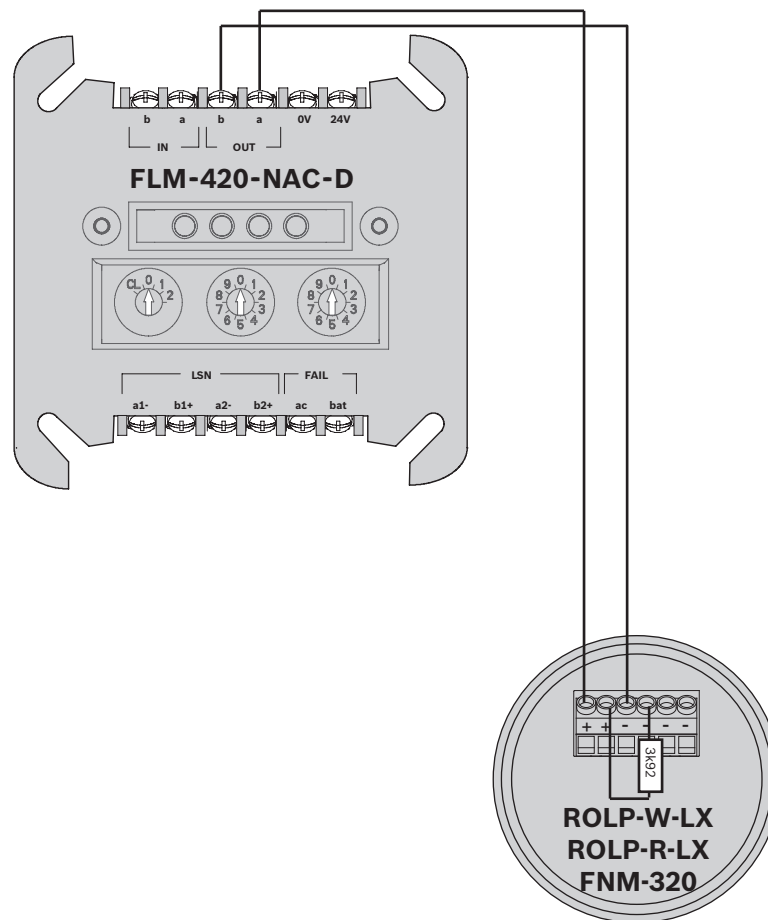
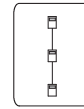




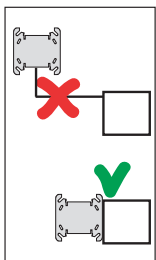
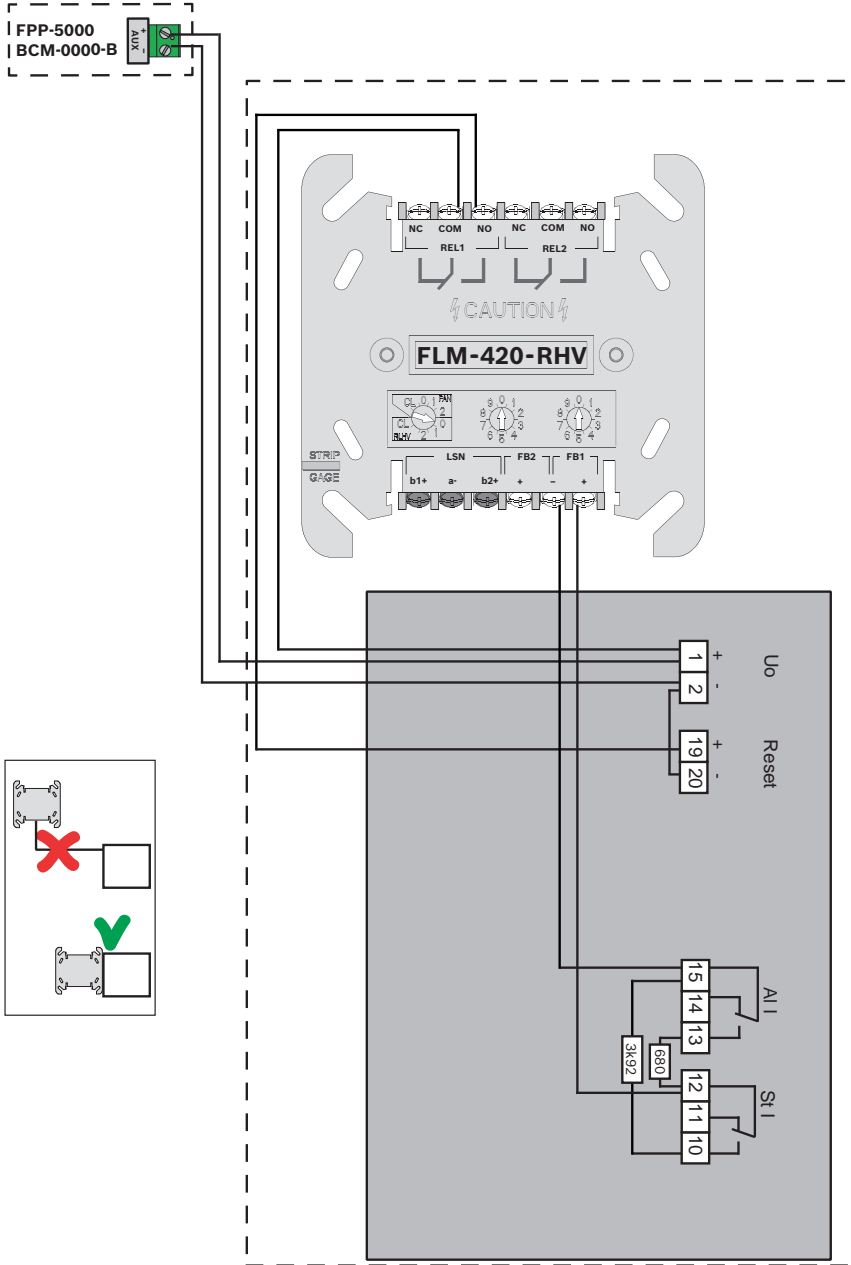




**ROLP-W-LX**  
**ROLP-R-LX**  
**FNM-320**

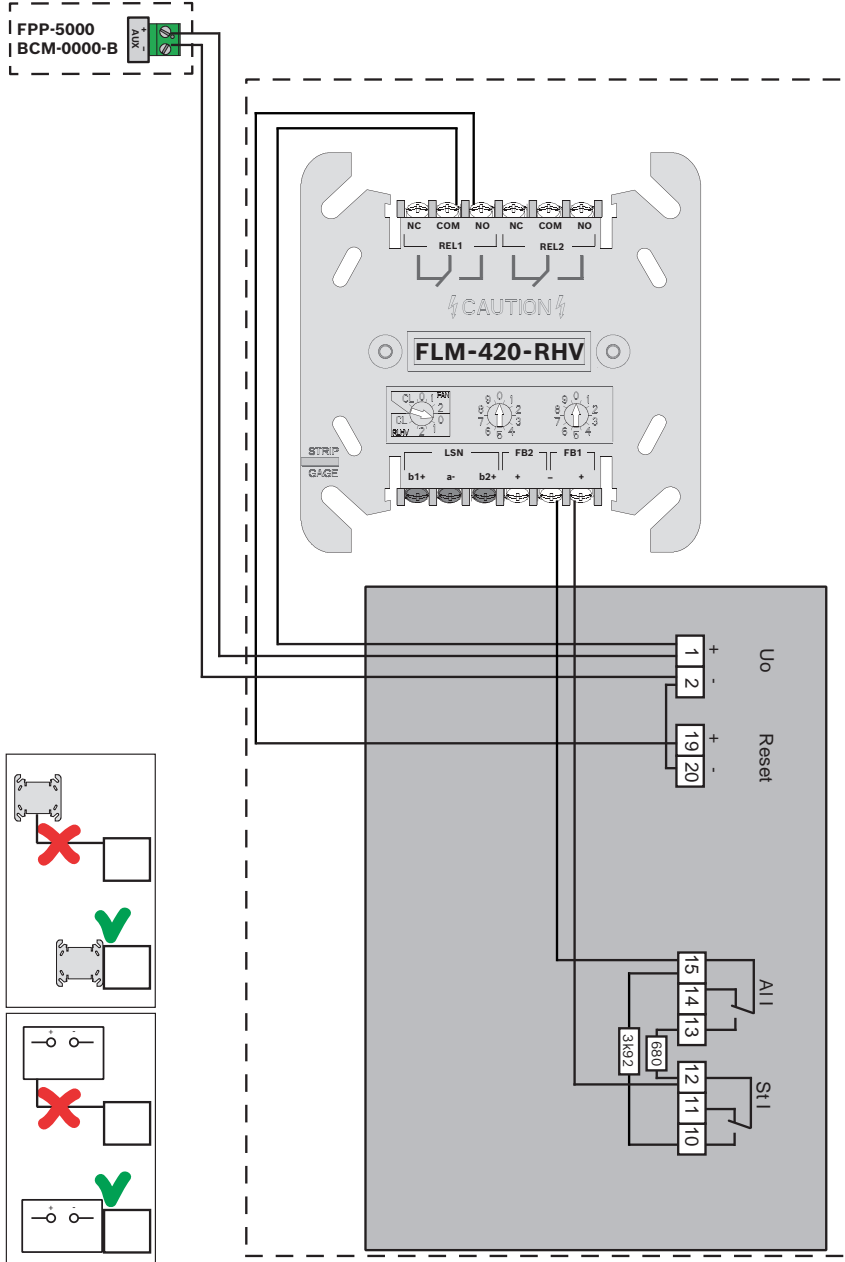


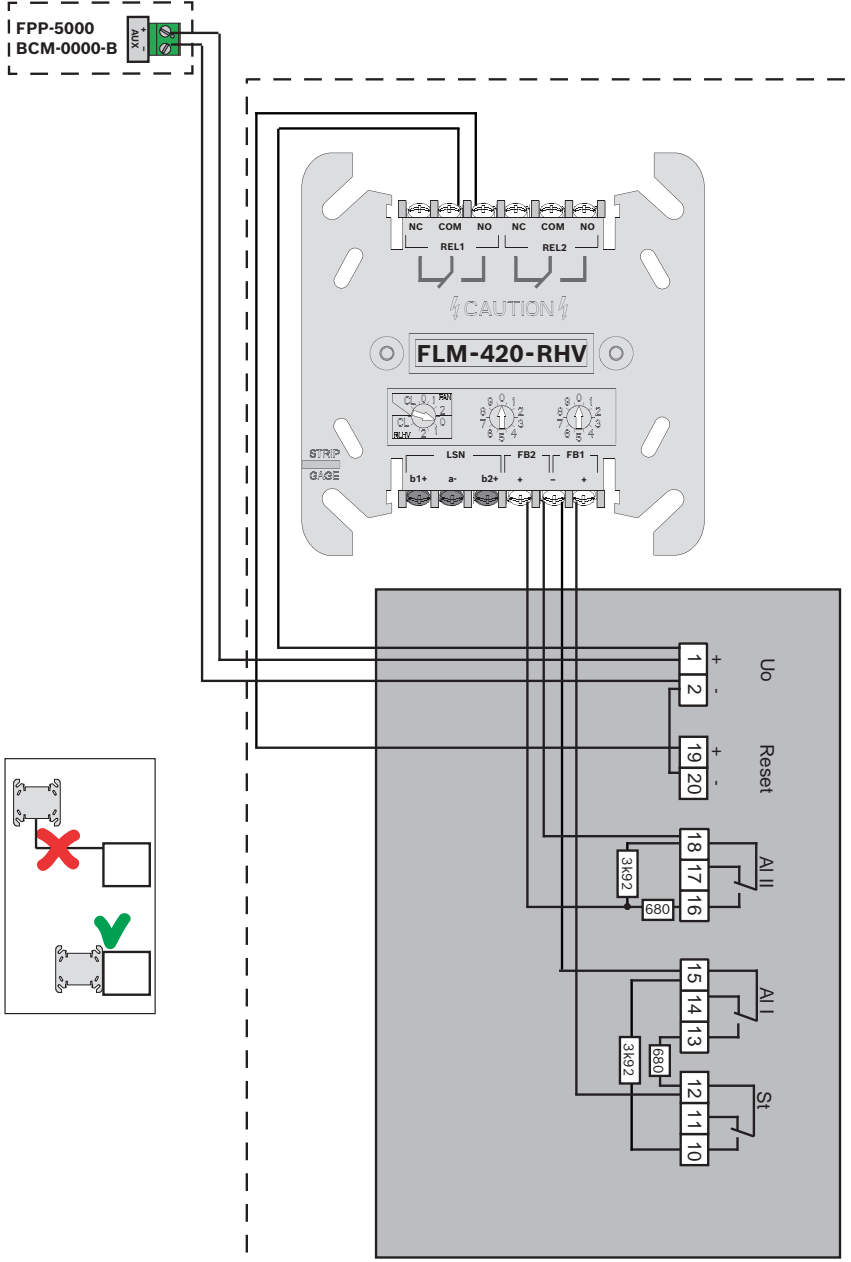
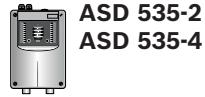
### 2.5.4 FLM-420-RHV





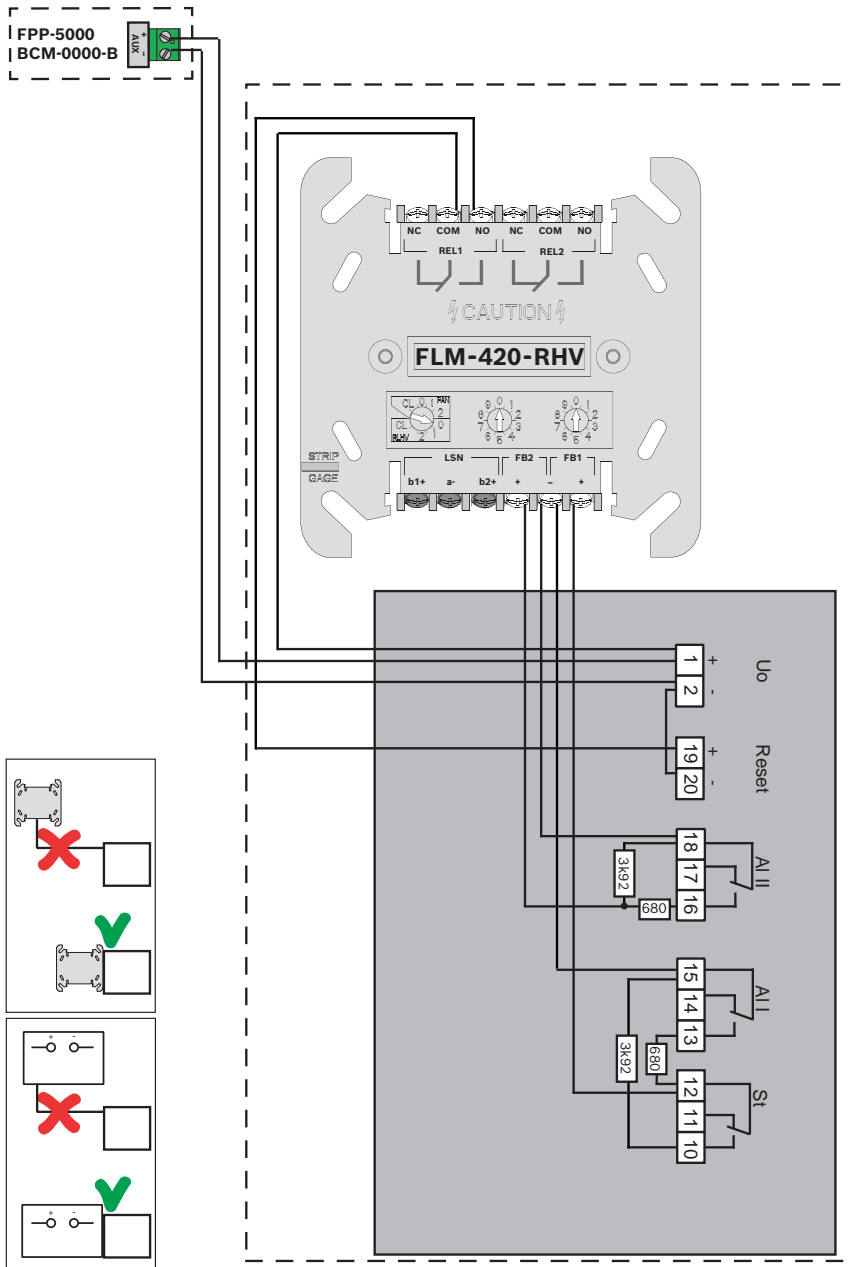
ELS

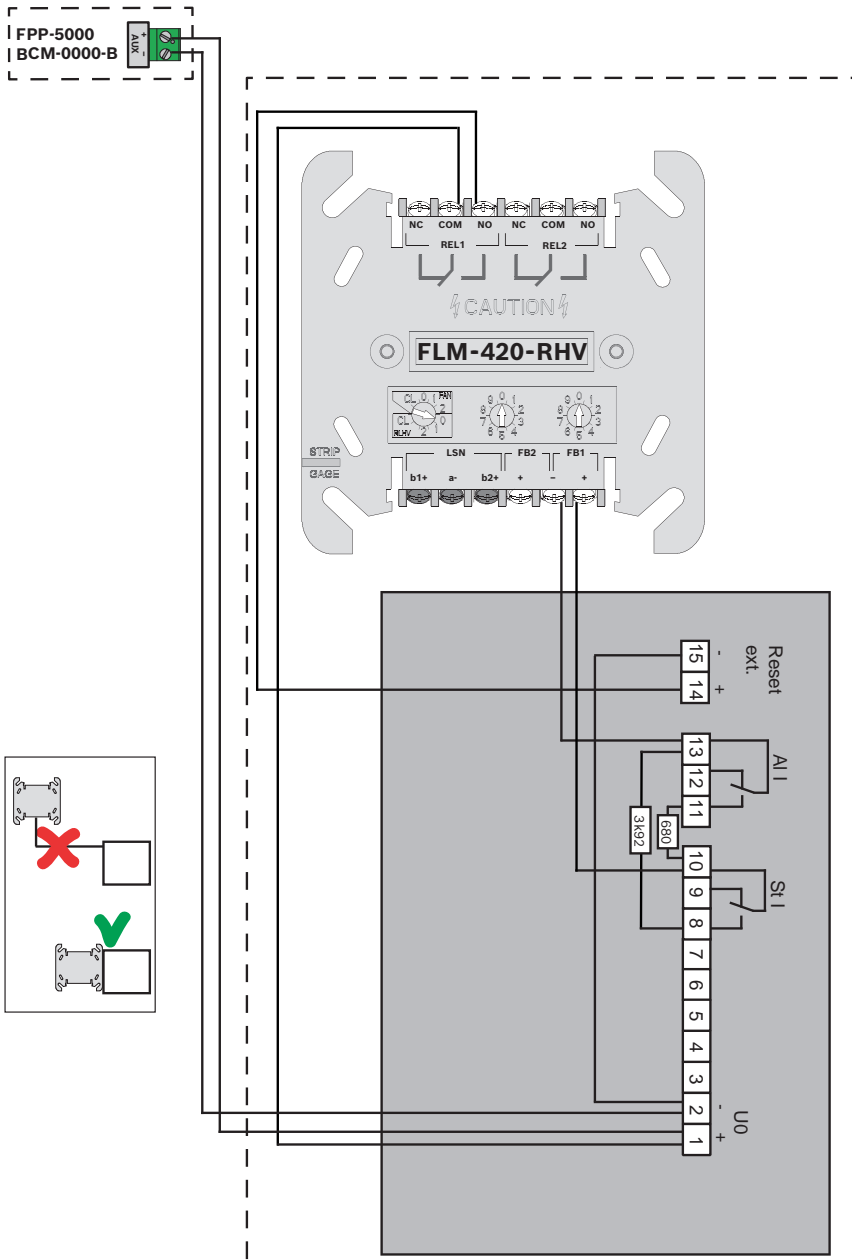




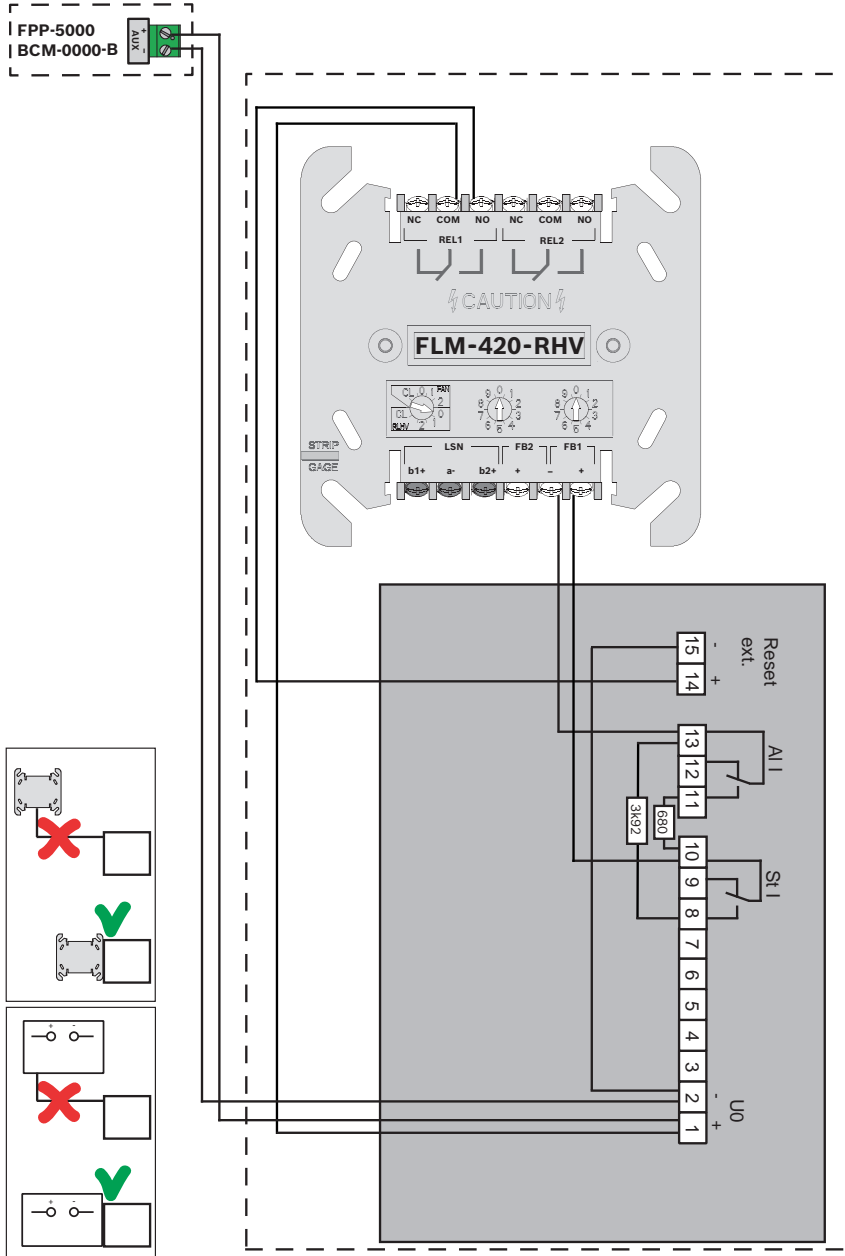


ELS



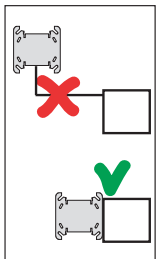
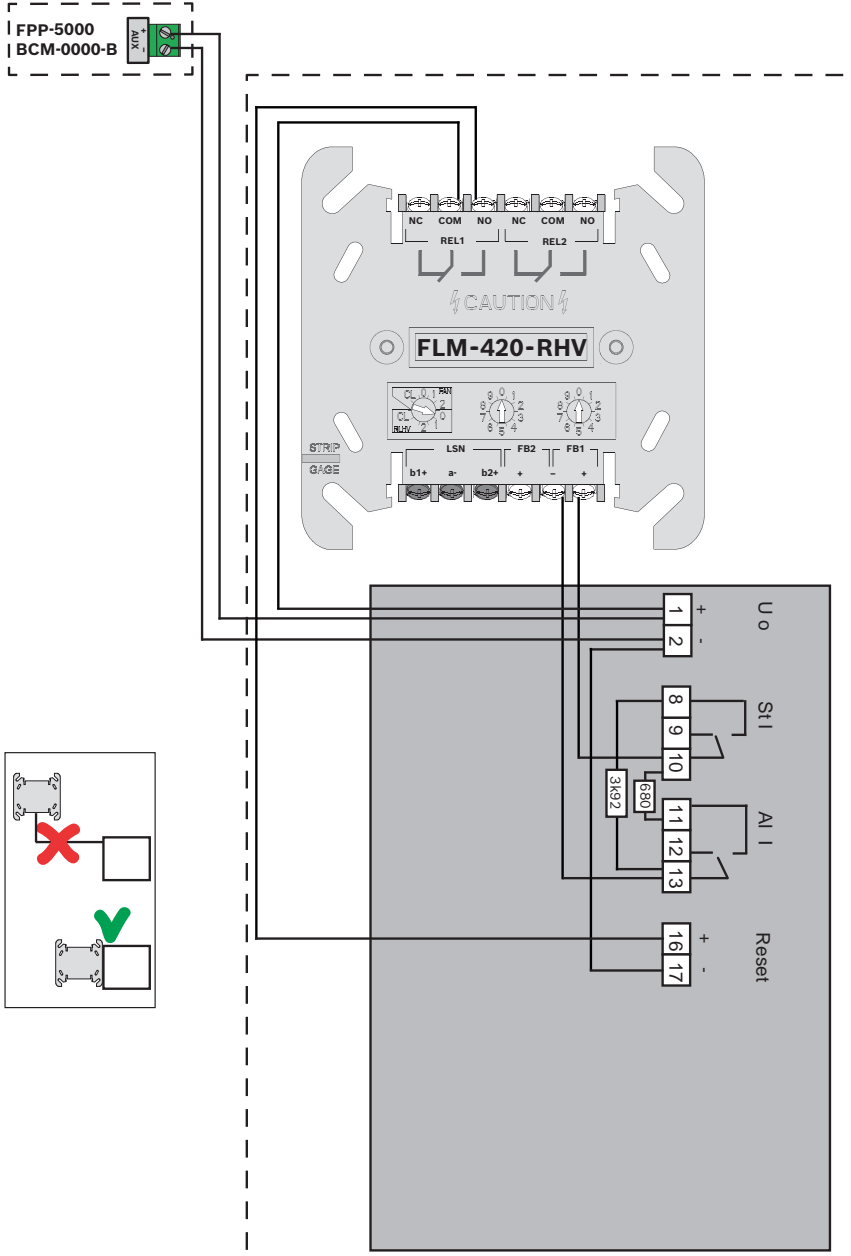








ADW 535-1

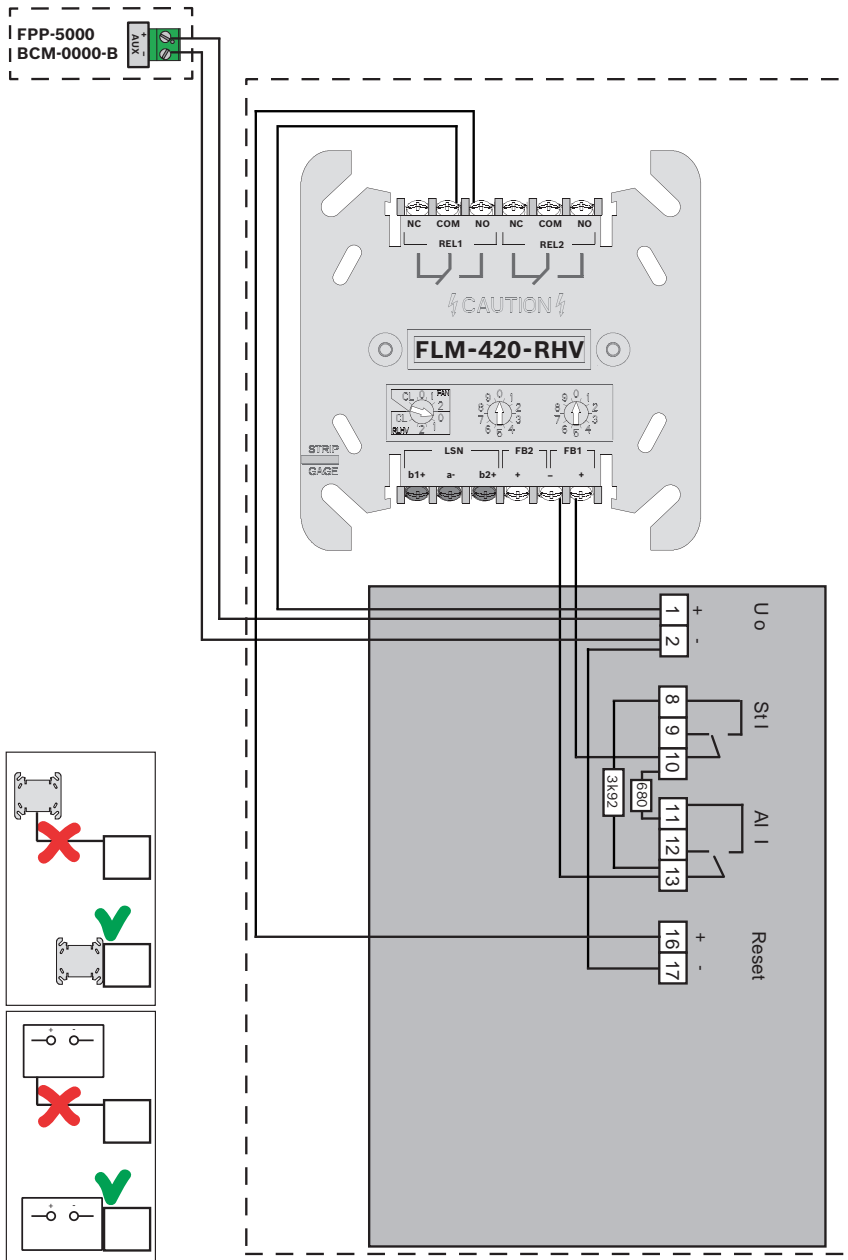




ADW 535-1

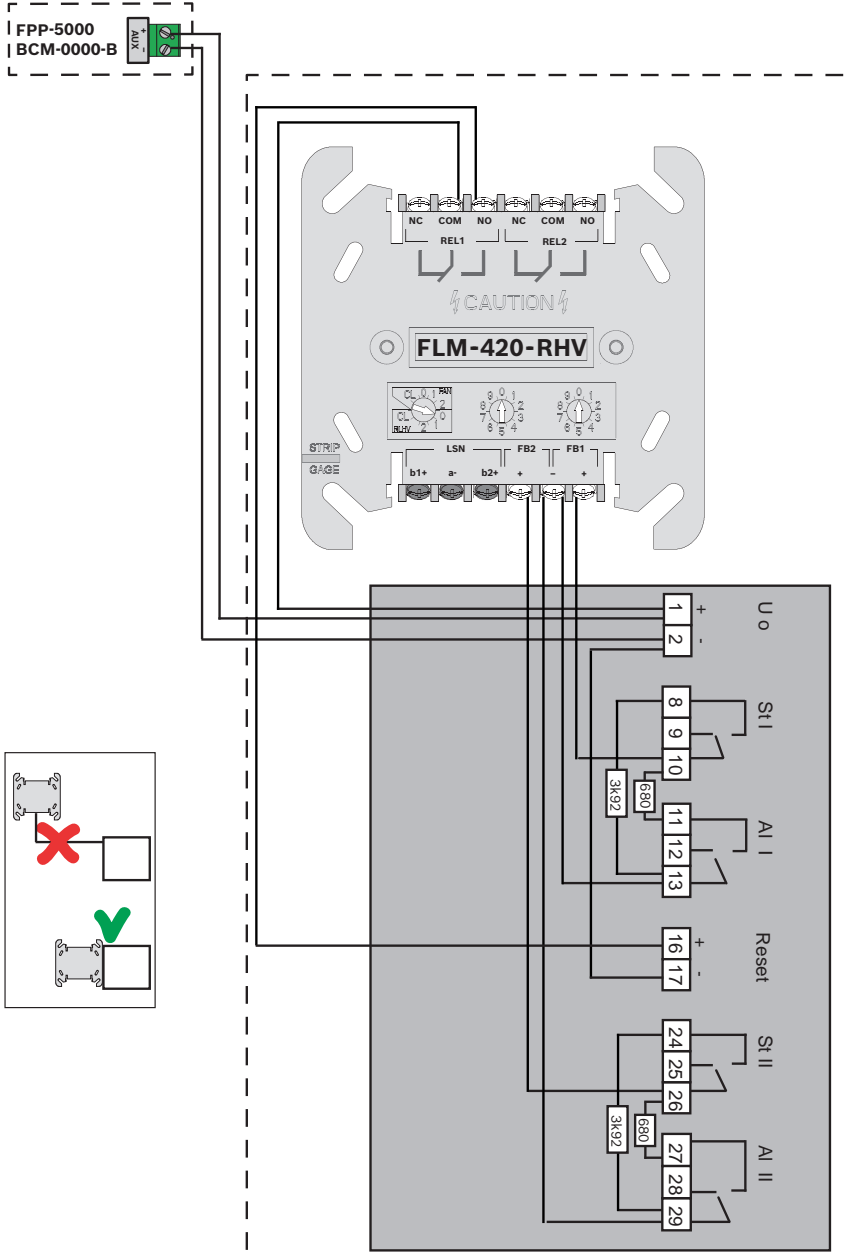


ELS





ADW 535-2

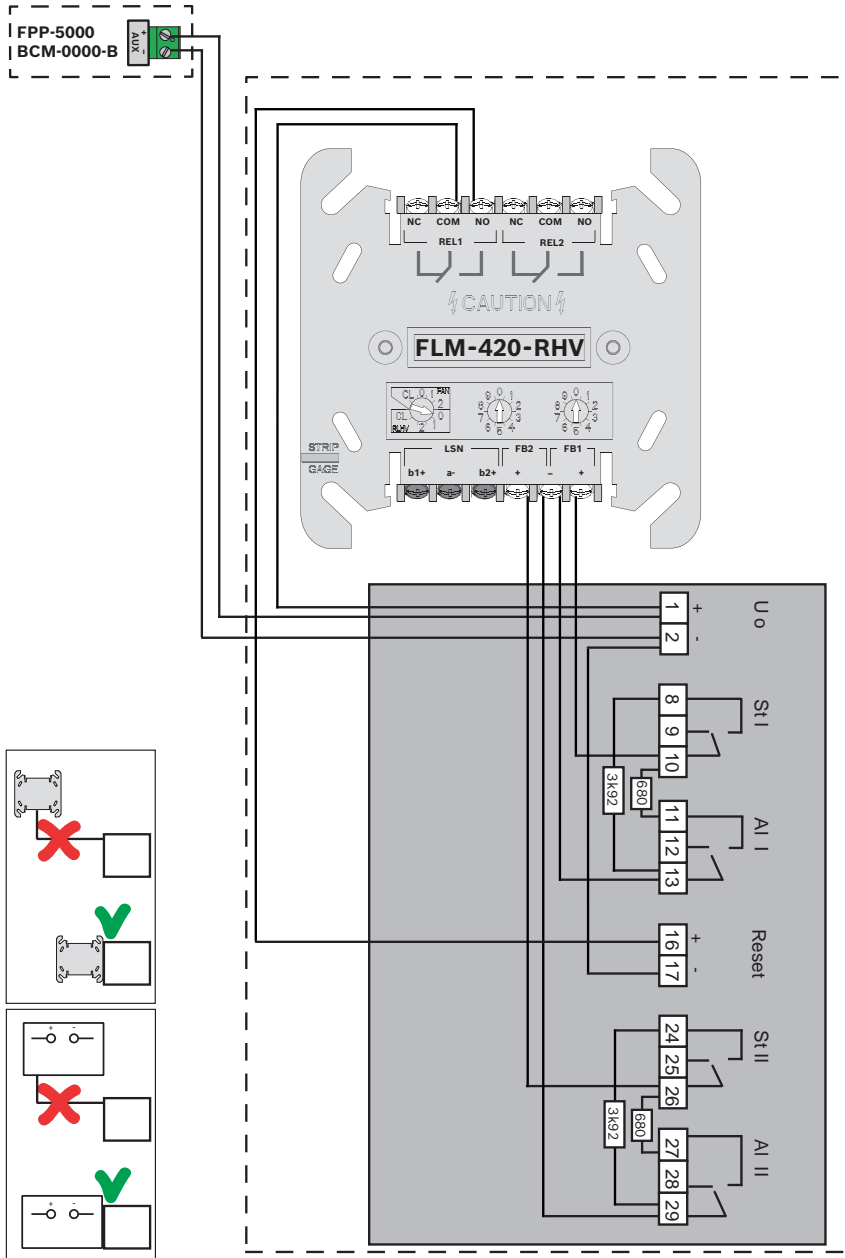




ADW 535-2

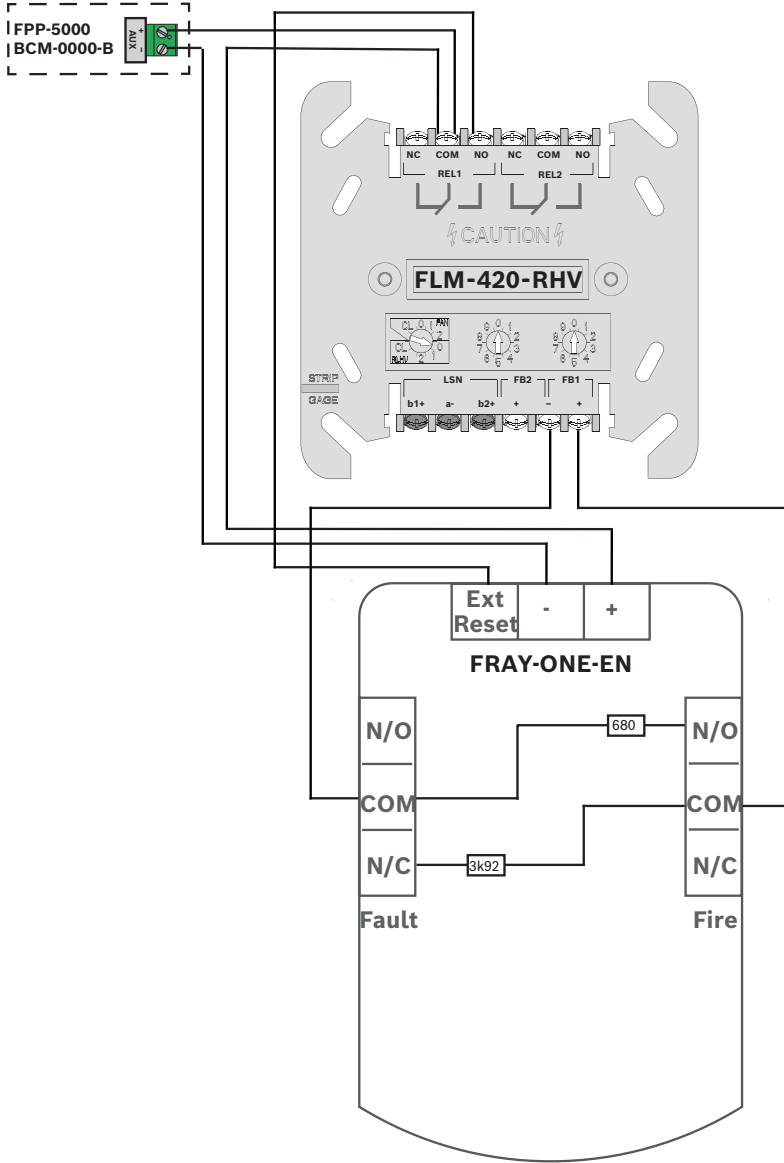


ELS





Fireray One



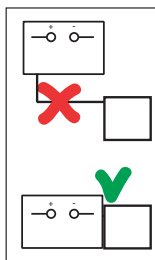
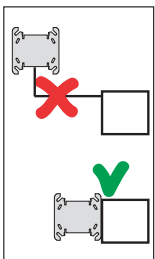
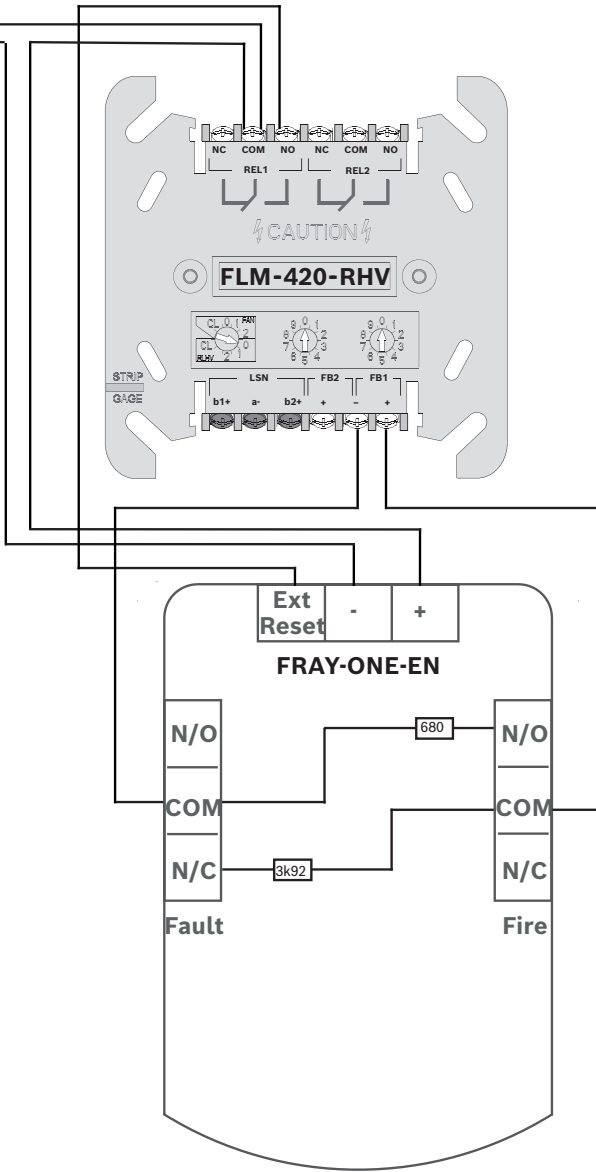


Fireray One



ELS

FPP-5000  
BCM-0000-B

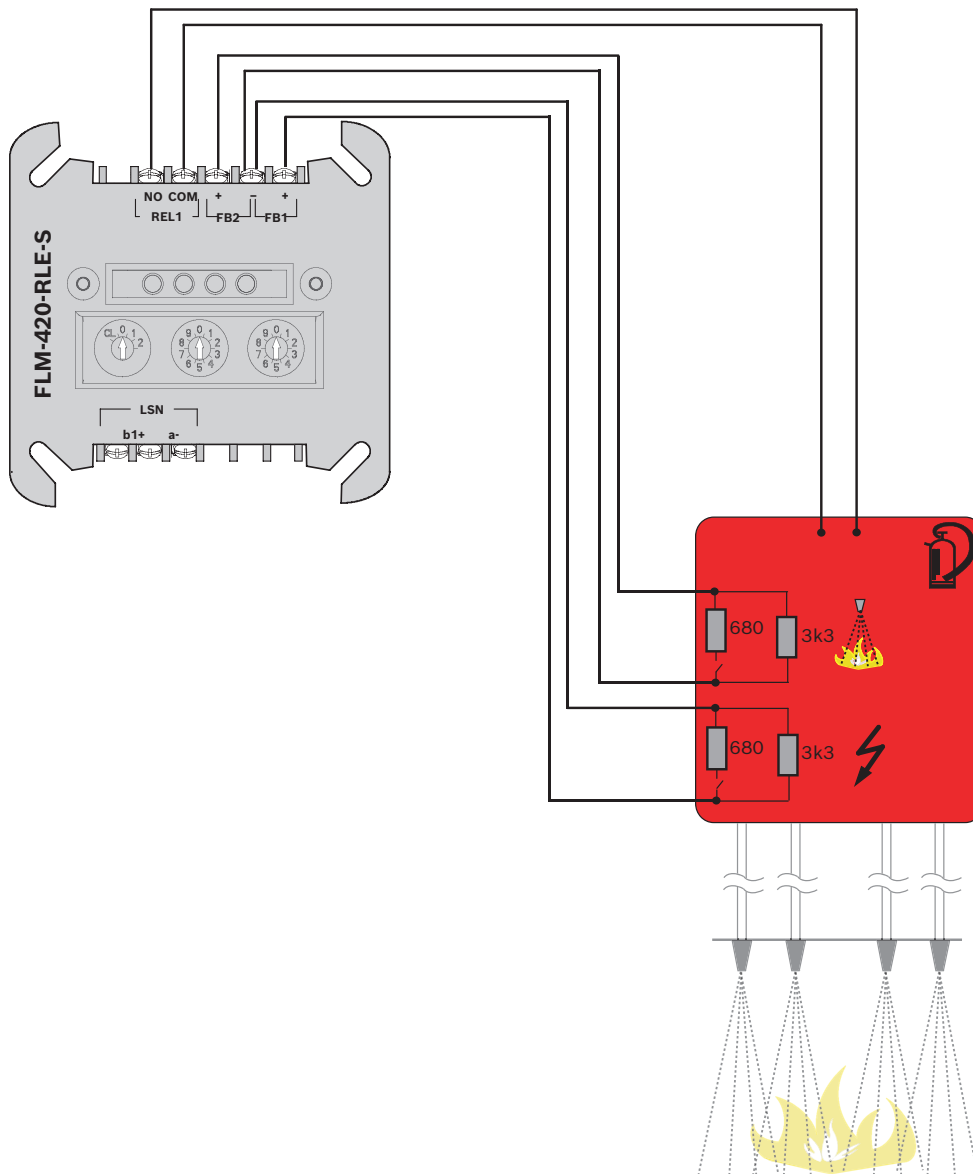


2.5.5

FLM-420-RLE-S

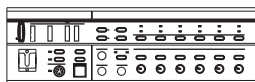
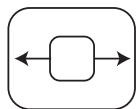


VdS 2496

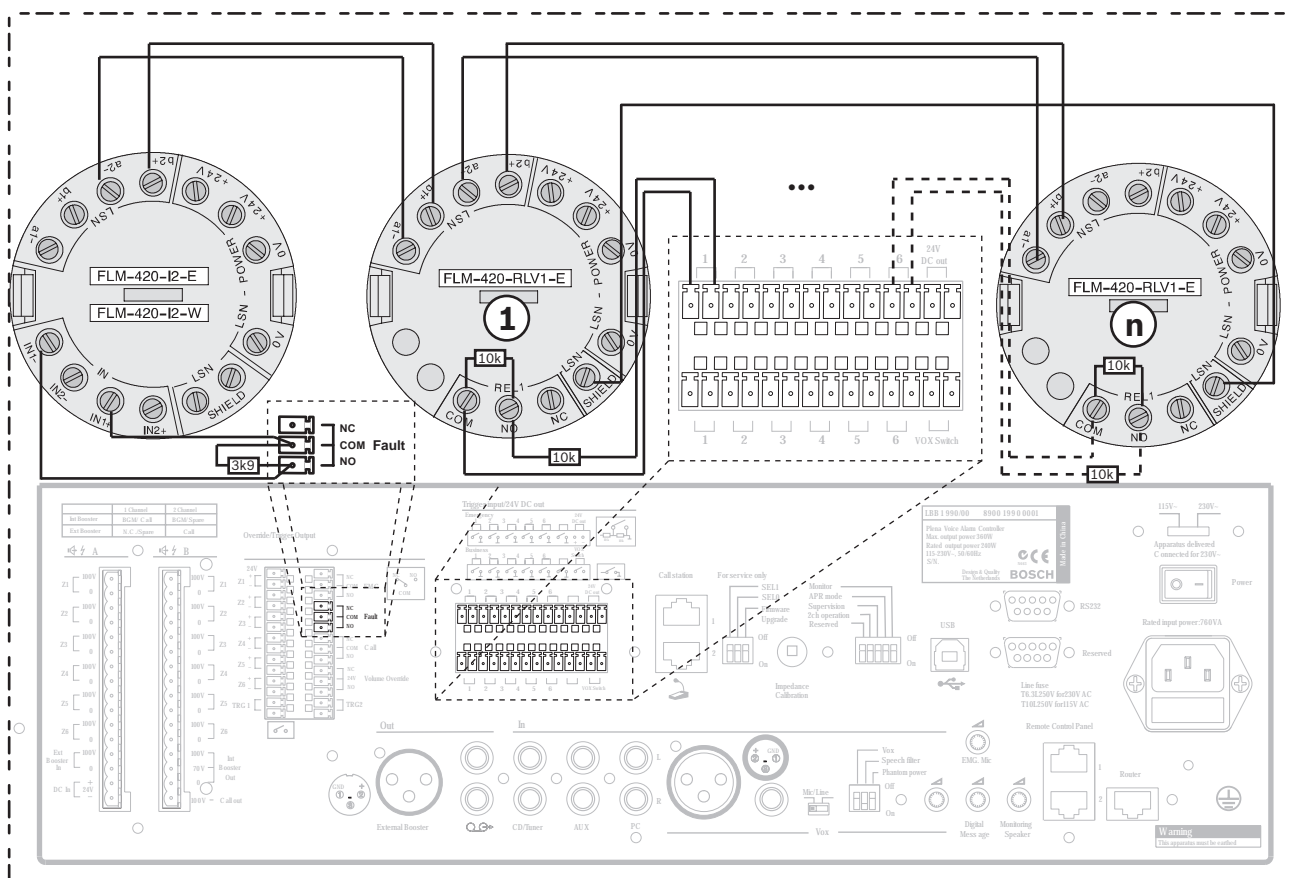




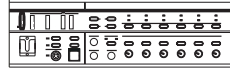
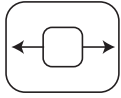
### 2.5.6 FLM-420-RLV1-E



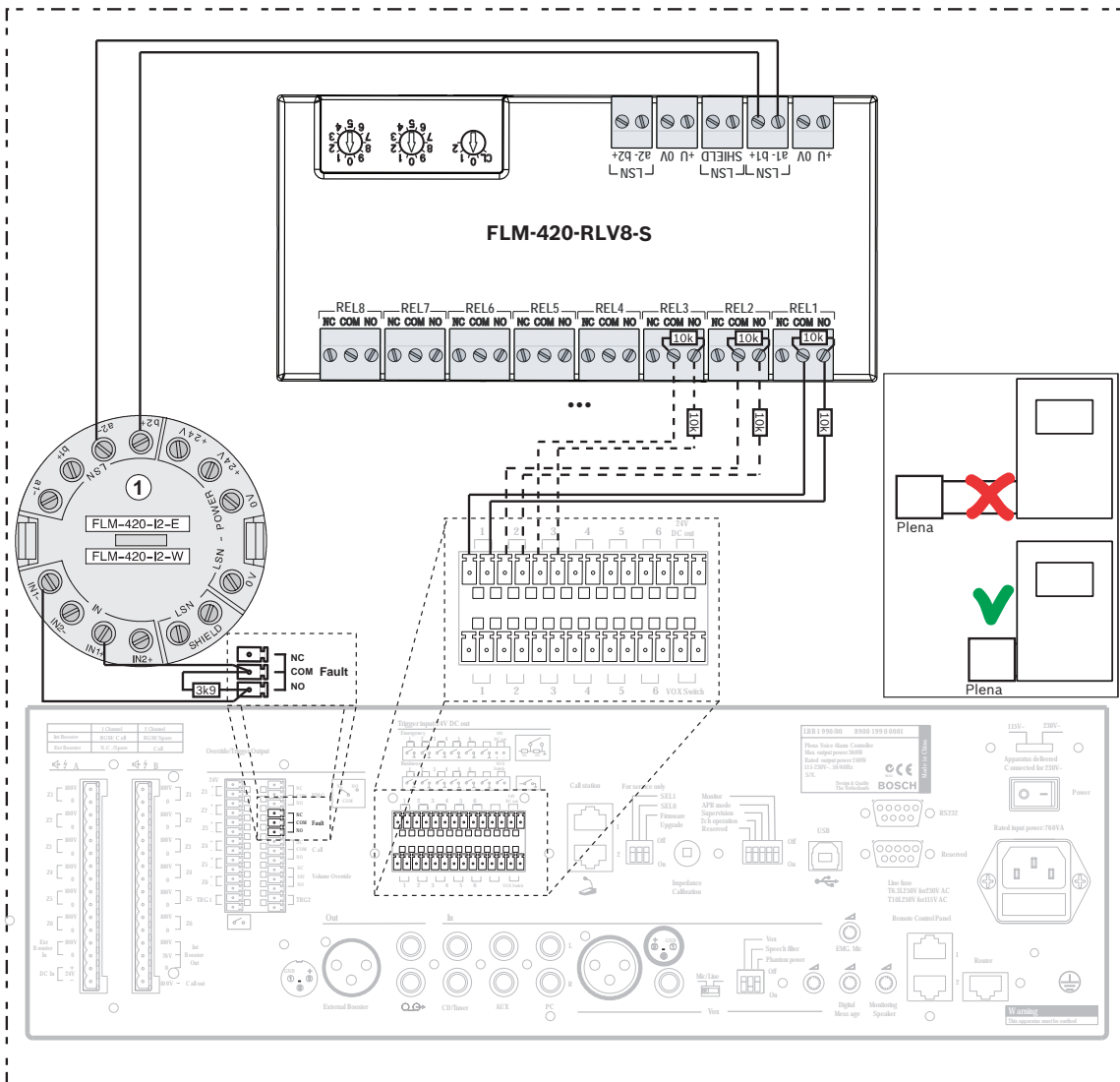
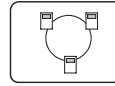
Plena



### 2.5.7 FLM-420-RLV8-S



Plena

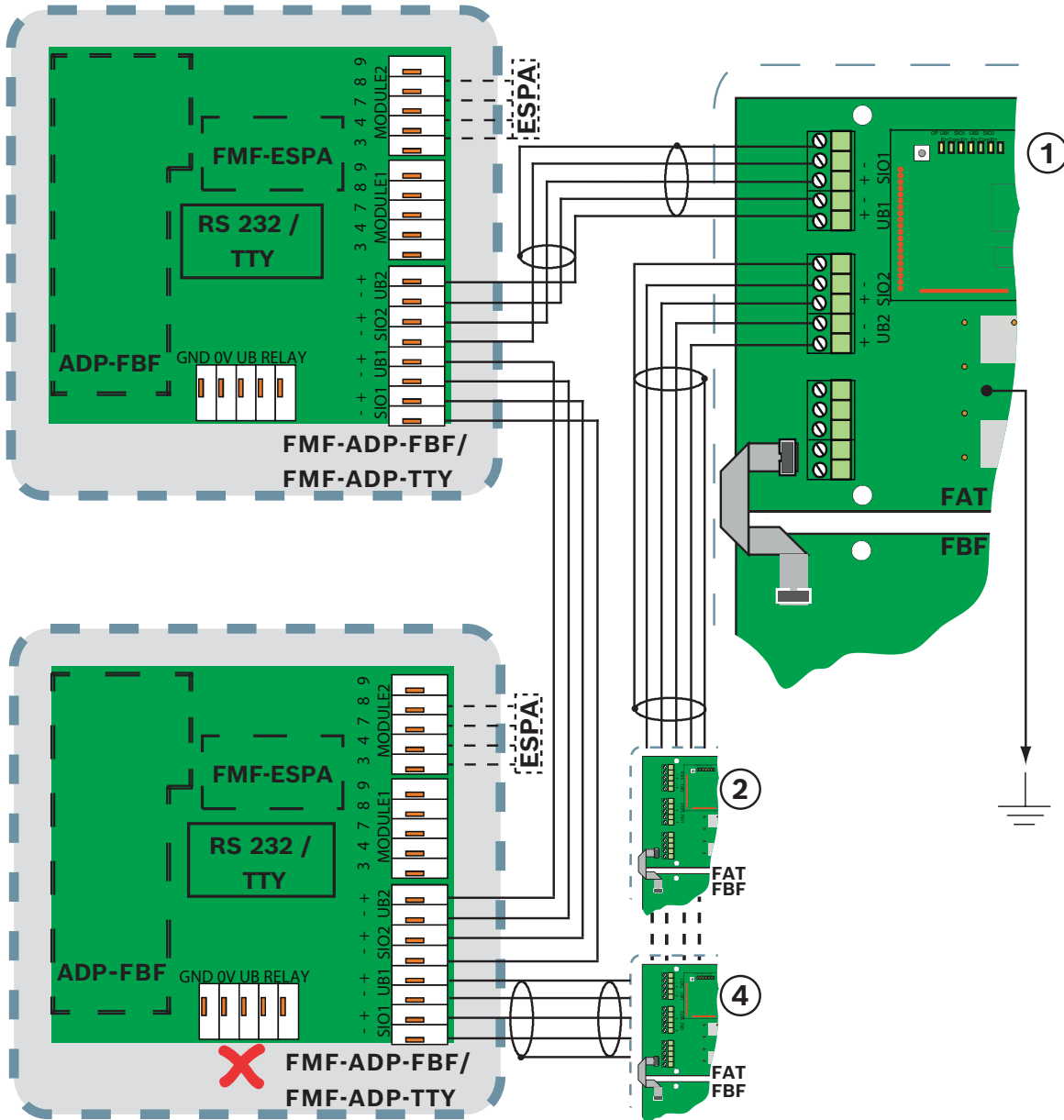


### 2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



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

ELS



## 2.6

### EOL



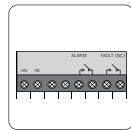
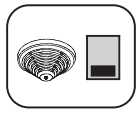
*CZM 0004 A, Seite 189*

*LSN 0300 A, Seite 201*

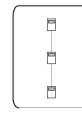
*FLM-420/4-CON-S/D, Seite 246*

2.6.1

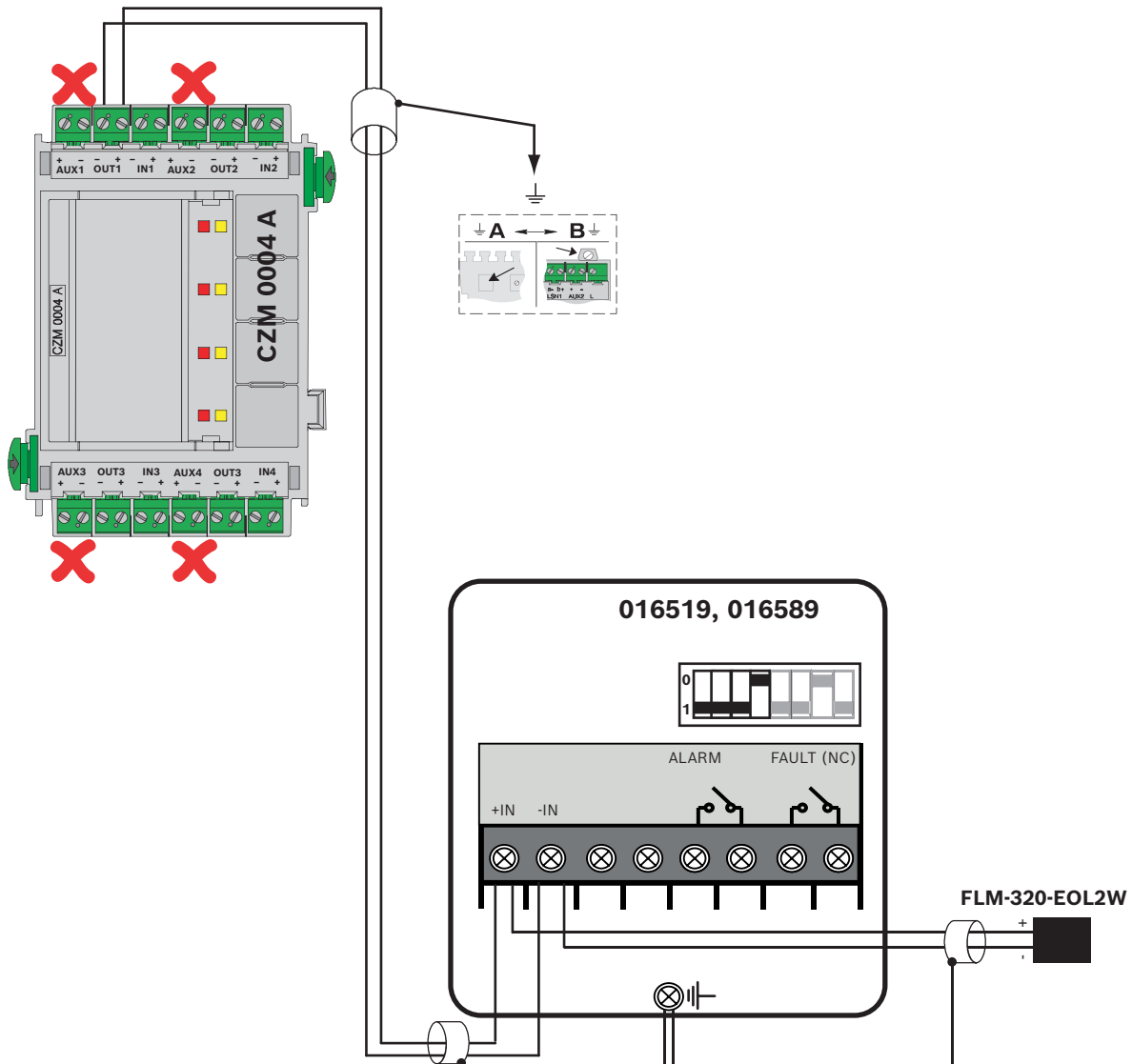
CZM 0004 A

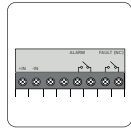


016519, 016589  
IR3 Flame Detector

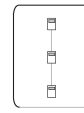


ELS

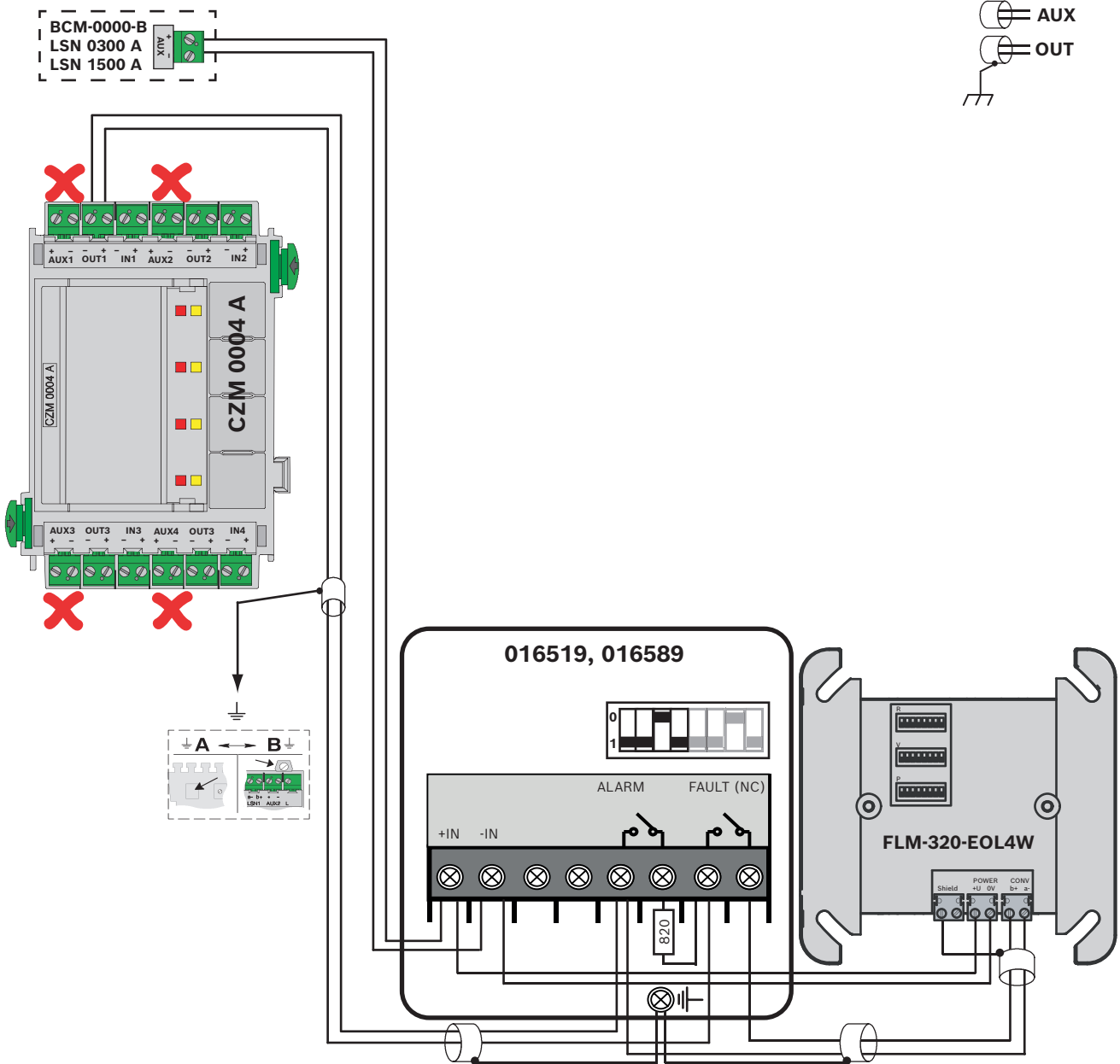




016519, 016589  
IR3 Flame Detector



ELS

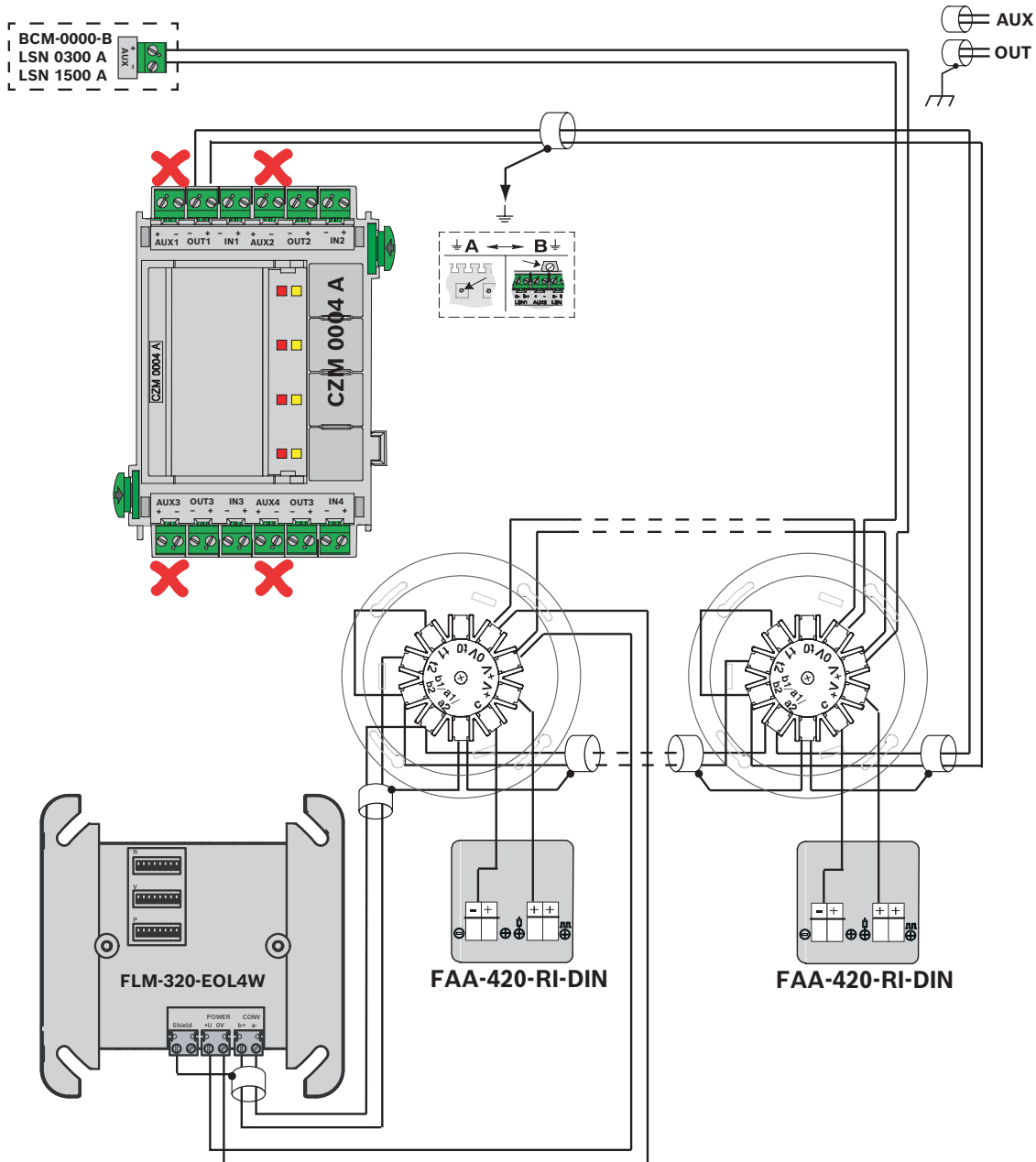


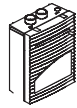


FCA-500-EU  
FCP-O 500  
FCP-O 500-P  
FCP-OC 500  
FCP-OC 500-P

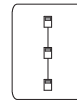


ELS



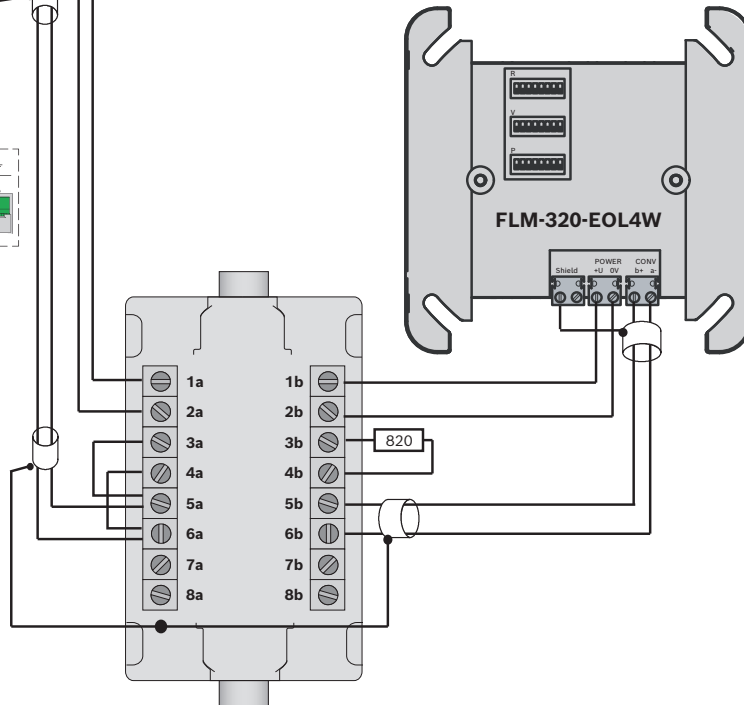
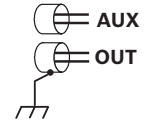
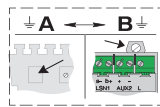
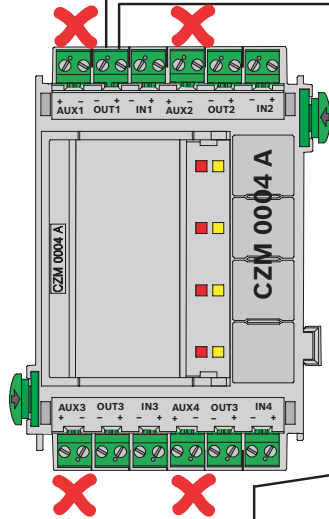


FCS-320-TM Series

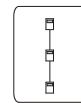
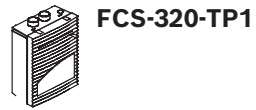


ELS

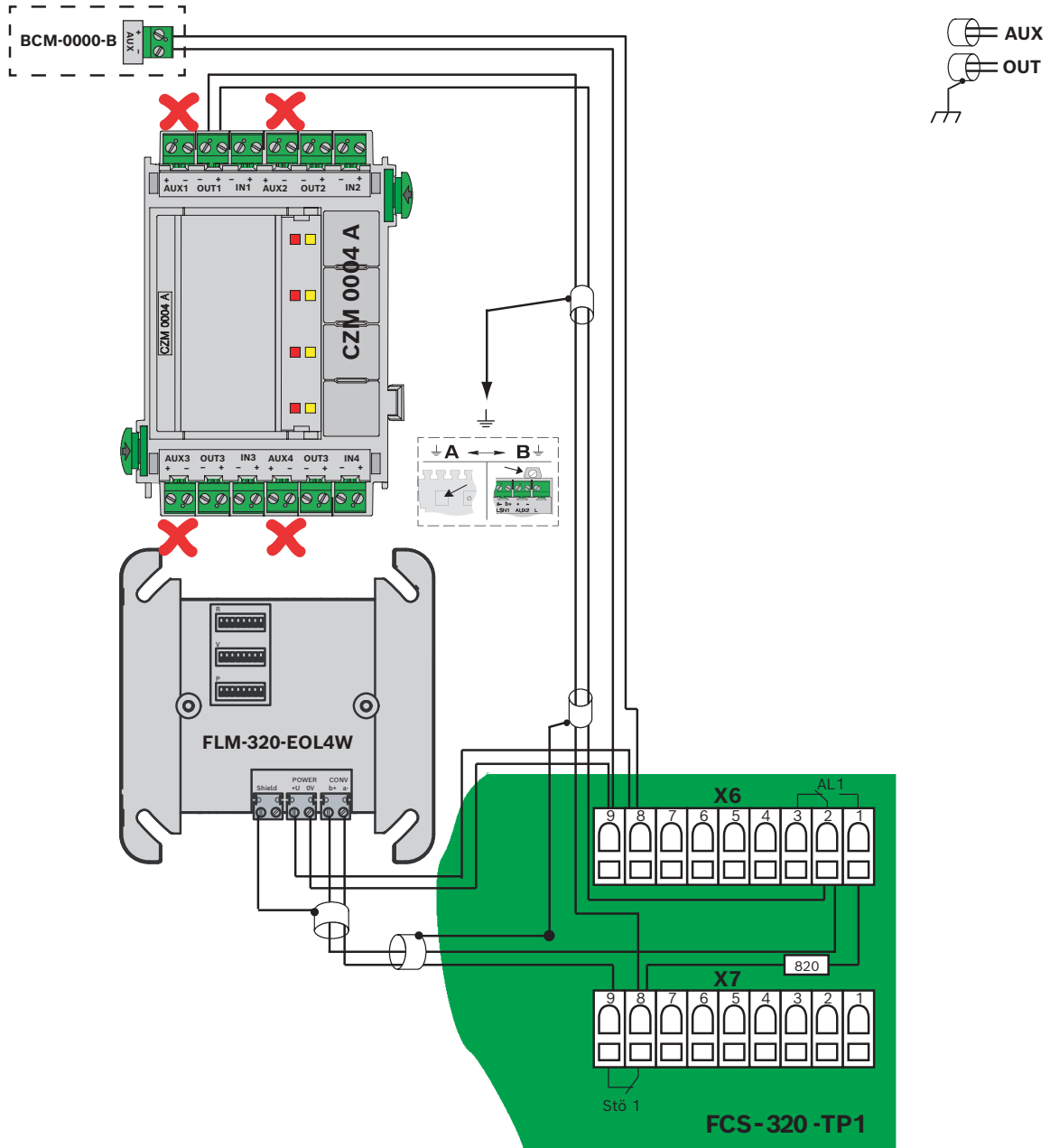
BCM-0000-B  
LSN 0300 A  
LSN 1500 A

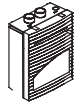






ELS

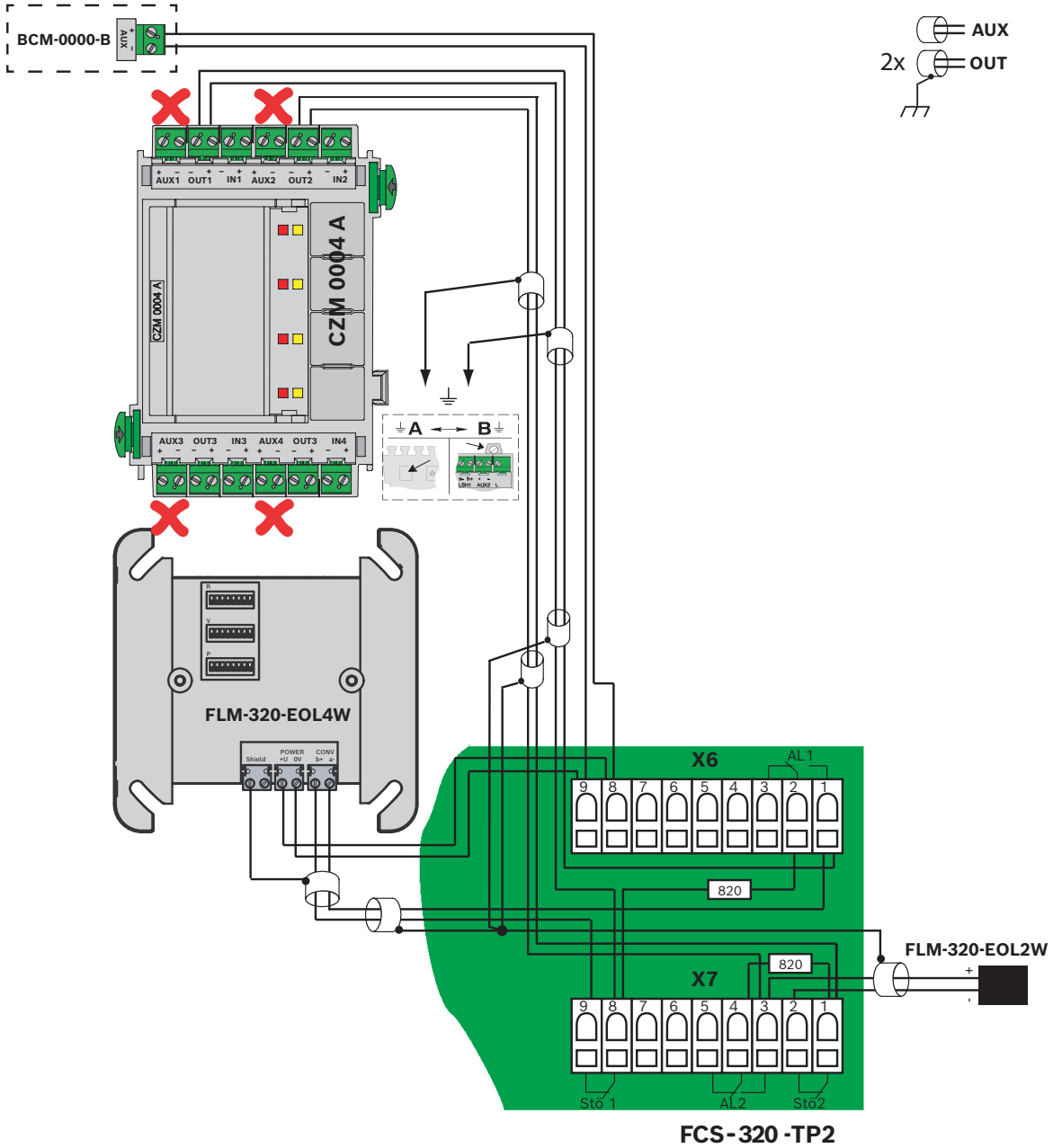




FCS-320-TP2



ELS





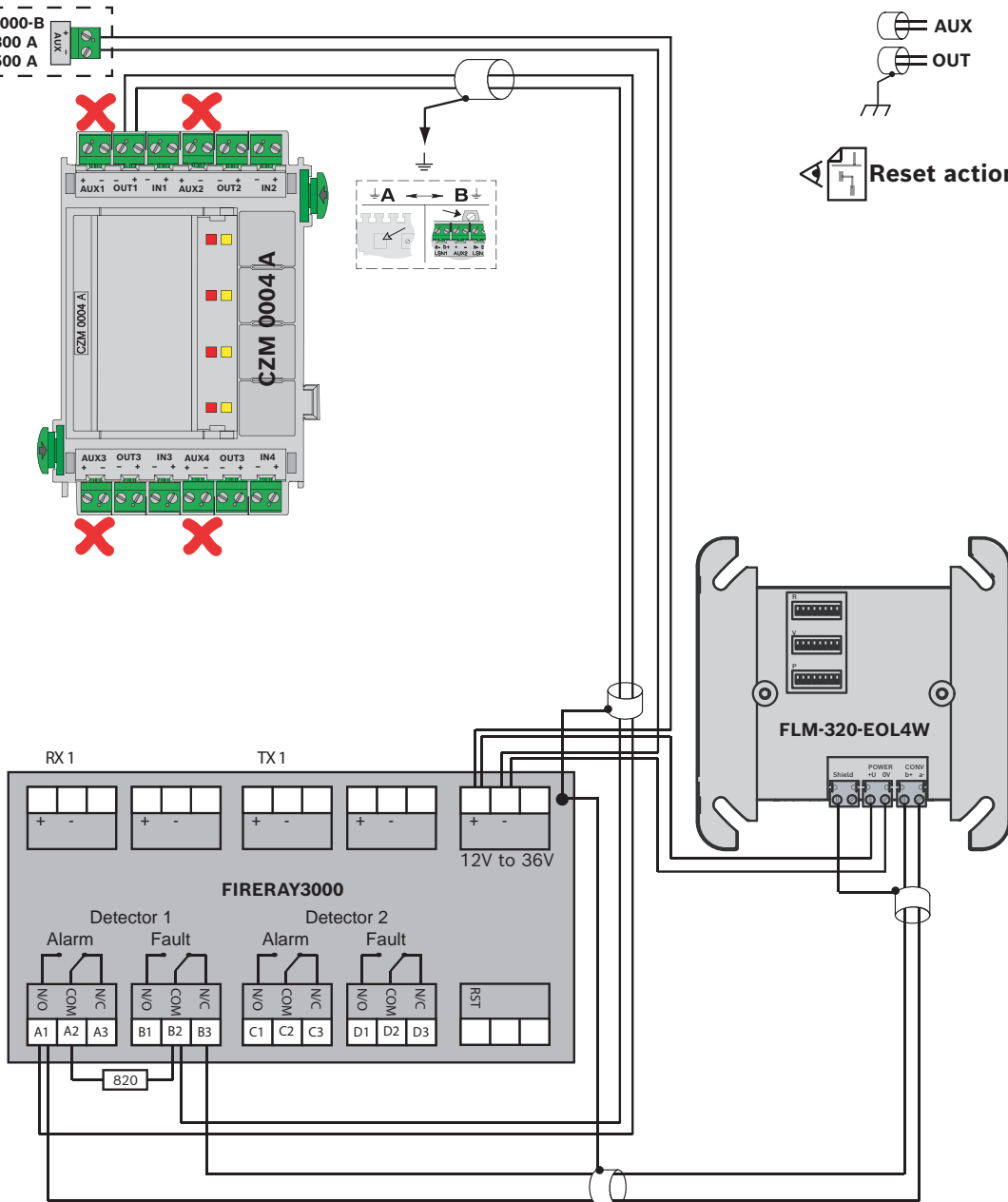
**FIRERAY3000**

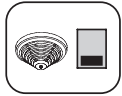
1 x



**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A

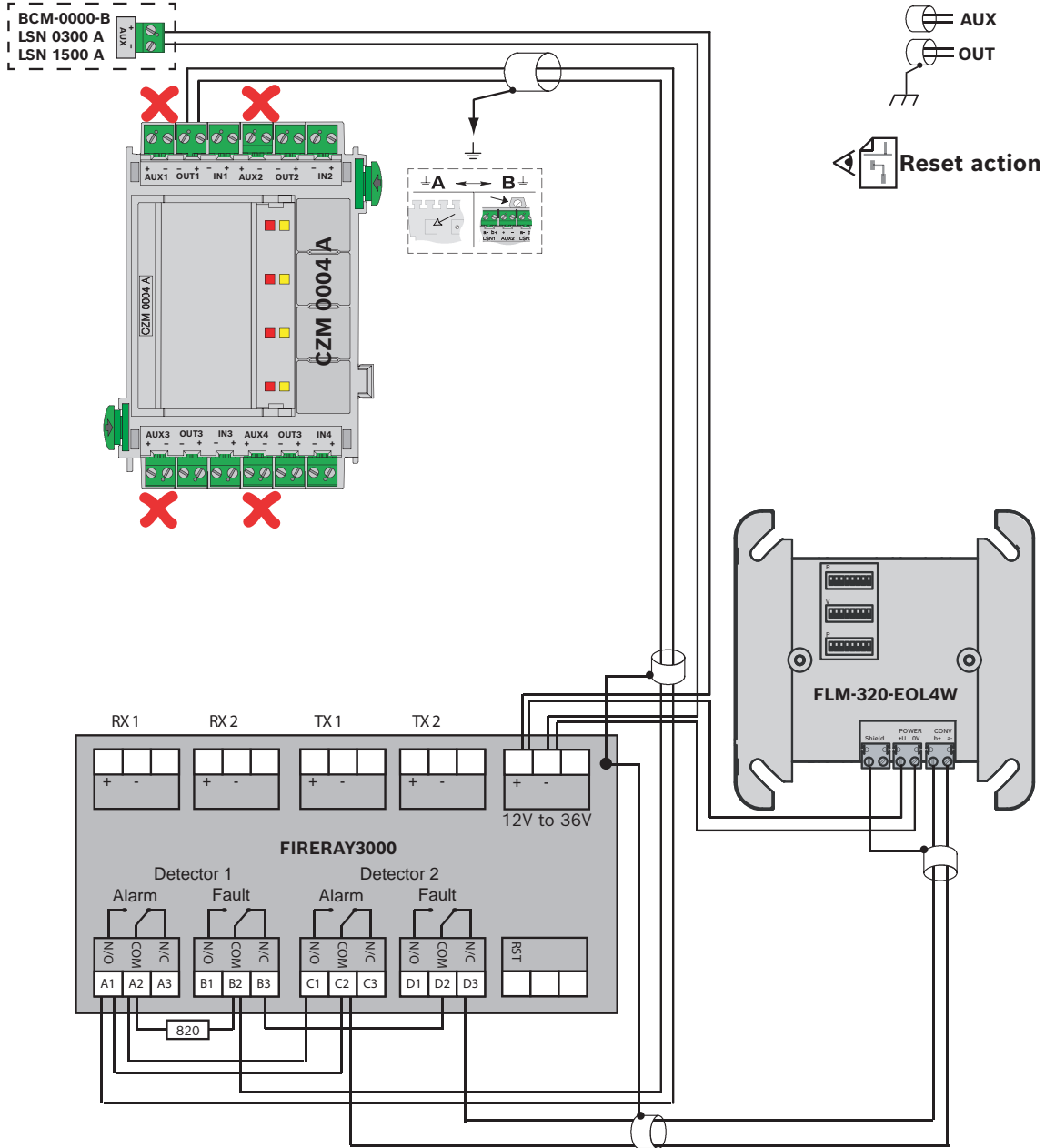




**FIRERAY3000**  
2 x **OUT1**



**ELS**



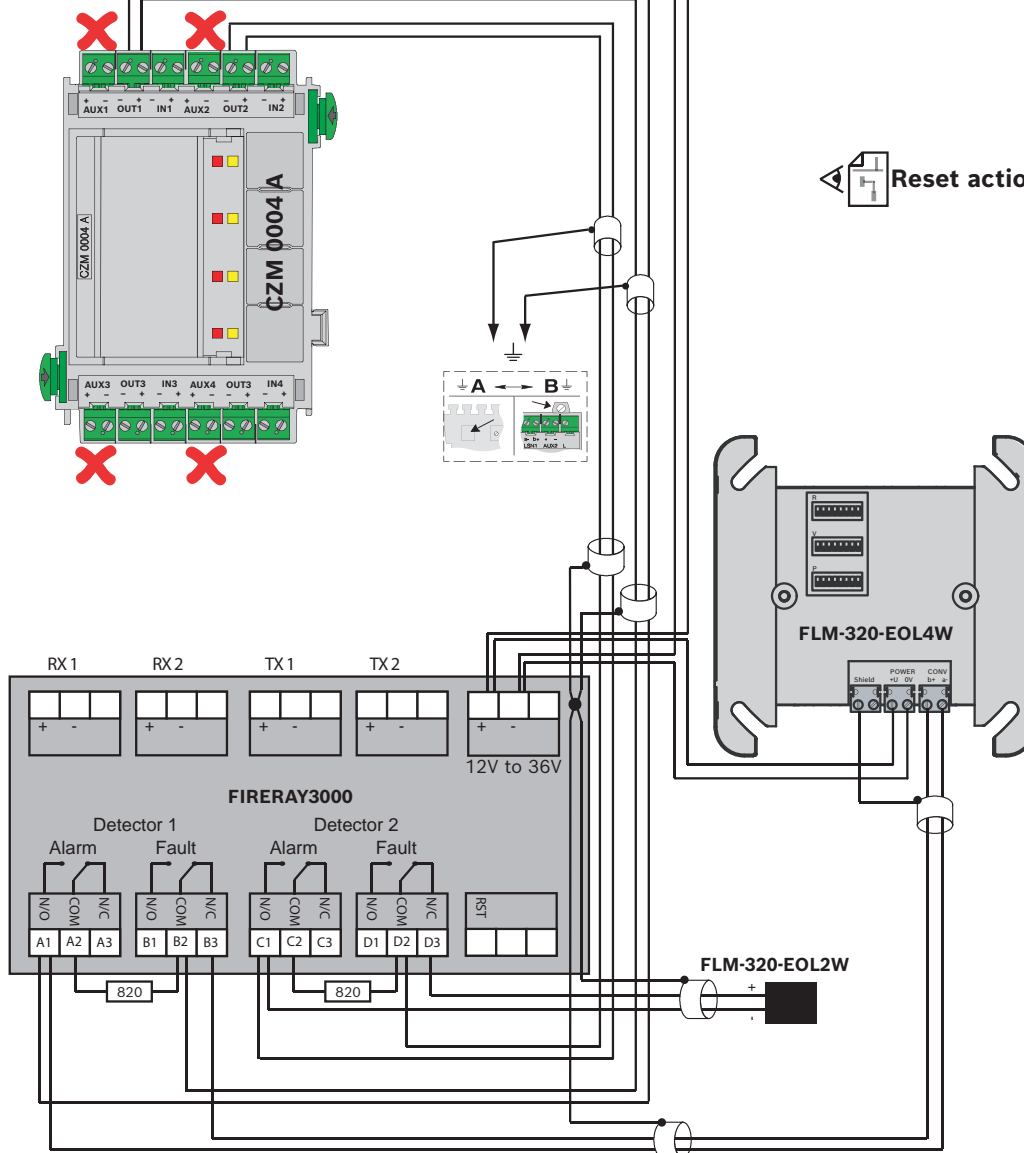


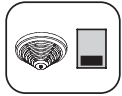
**FIRERAY3000**  
2 x **OUT1+2**



**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



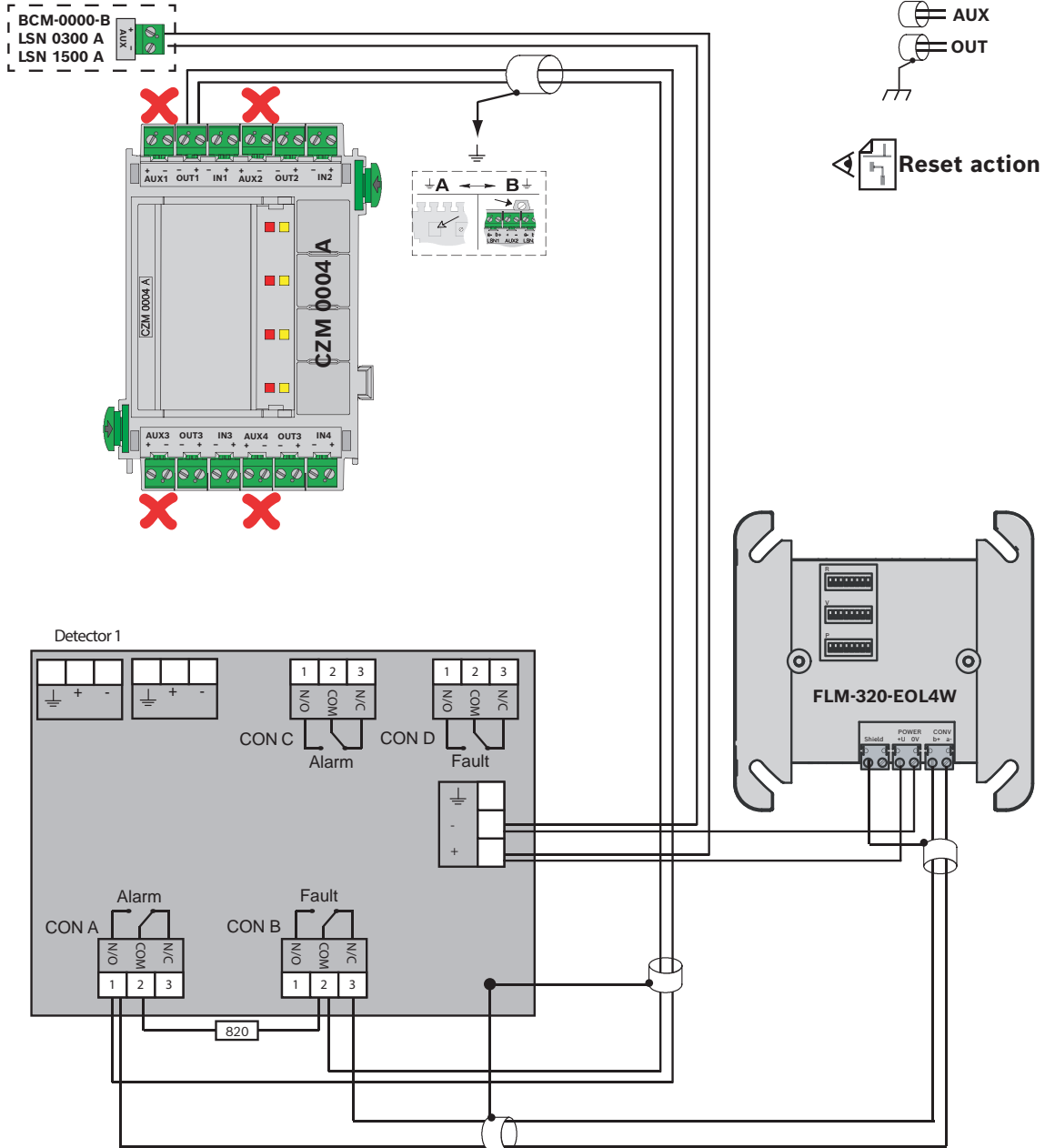


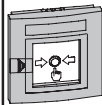
**FIRERAY5000**

1 x

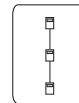


**ELS**

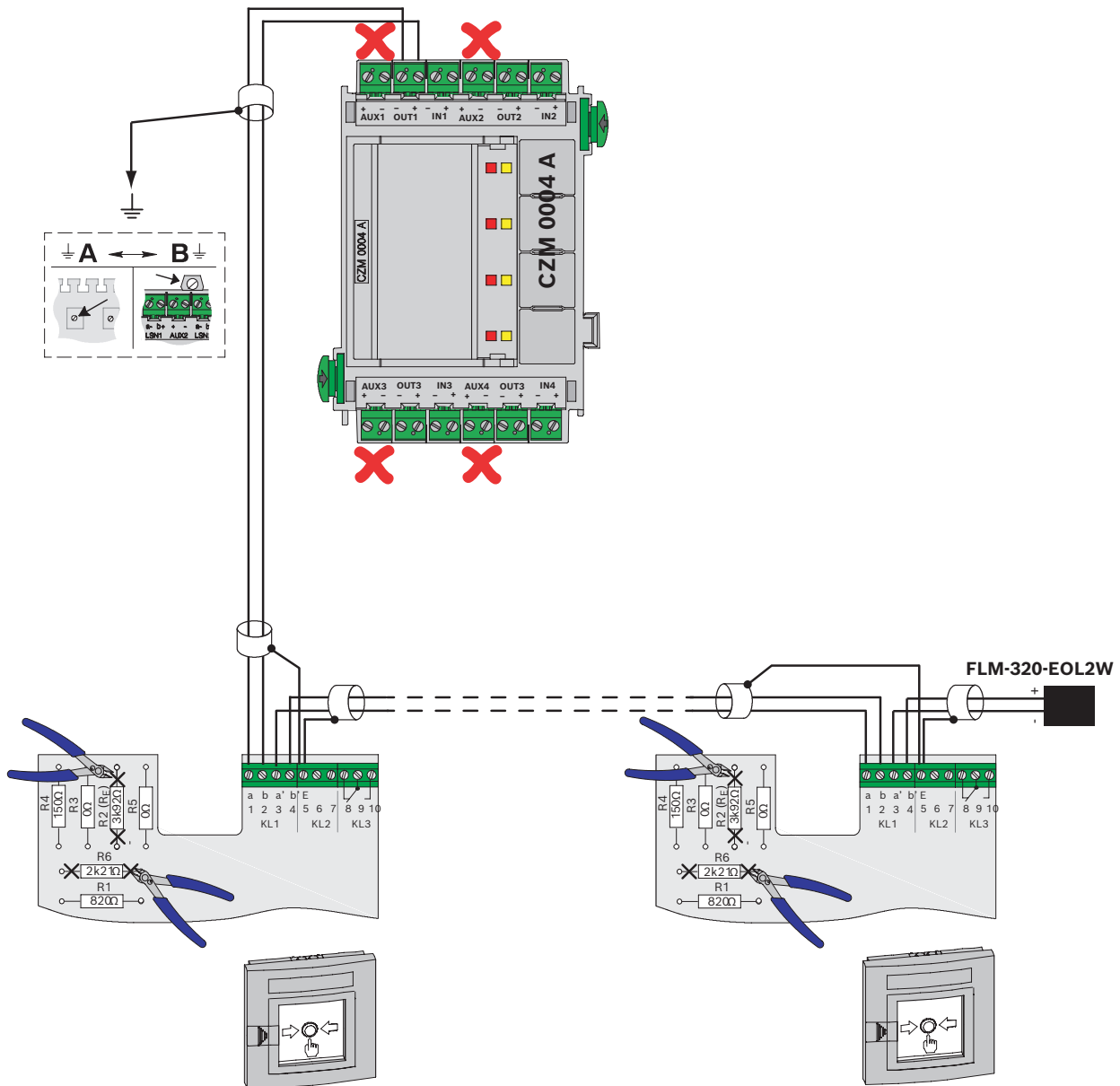


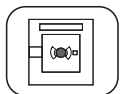


FMC-120-DKM-G-R  
 FMC-120-DKM-H-R  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B  
 FMC-120-DKM-G-Y



ELS

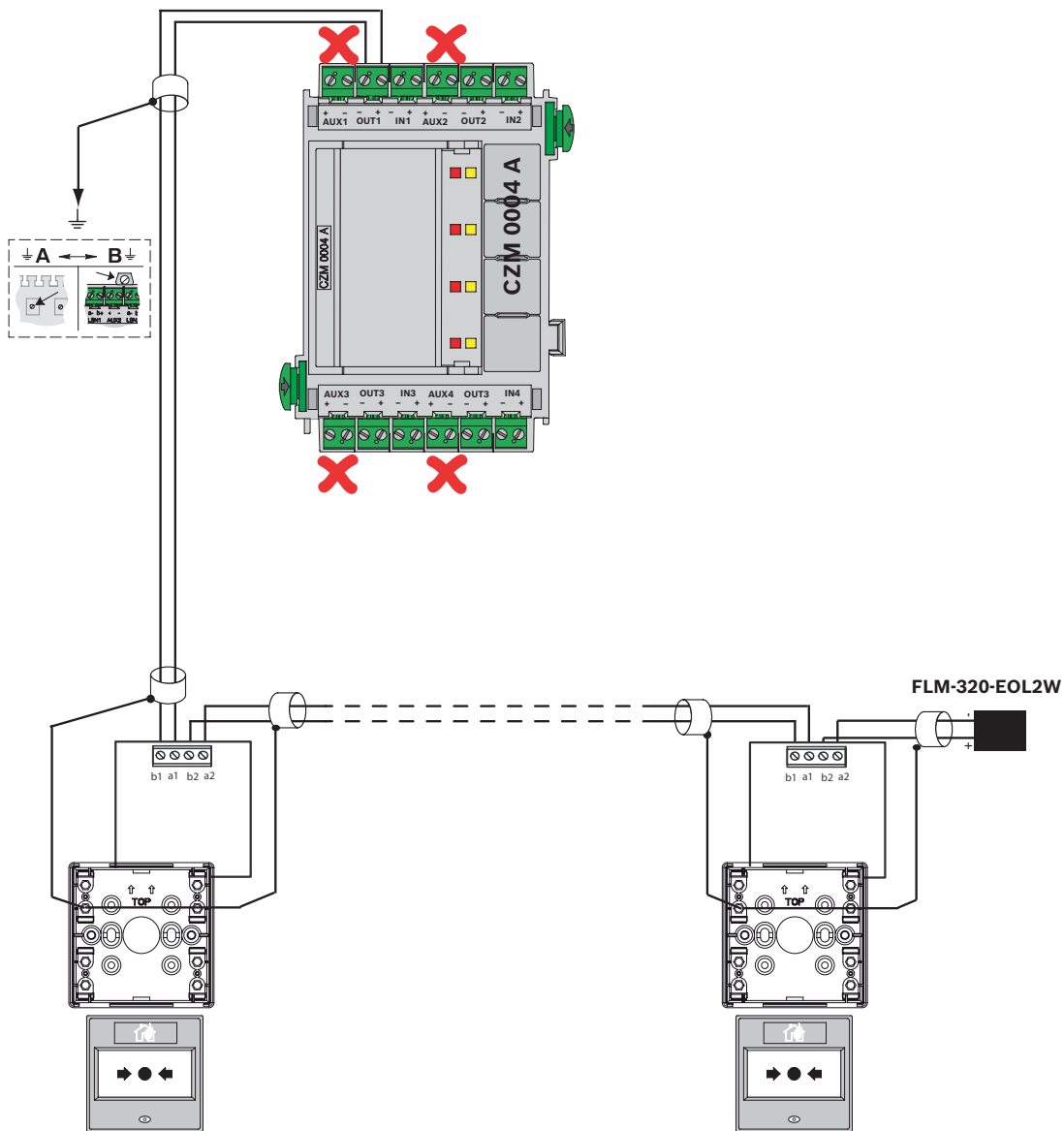




FMC-300RW-GSGBU  
FMC-300RW-GSRBU  
FMC-300RW-GSGRD  
FMC-300RW-GSRRD  
FMC-300RW-GSGYE  
FMC-300RW-GSRYE

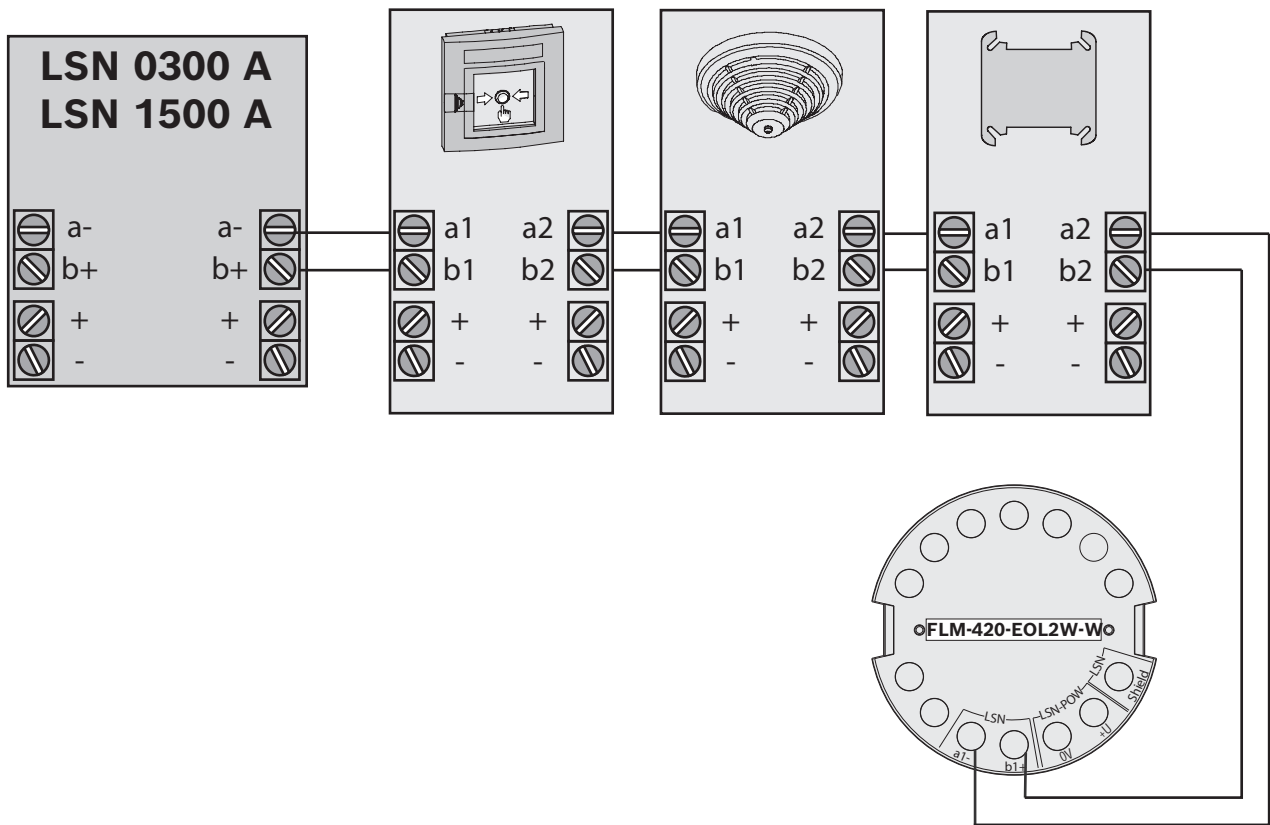
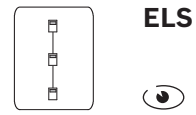


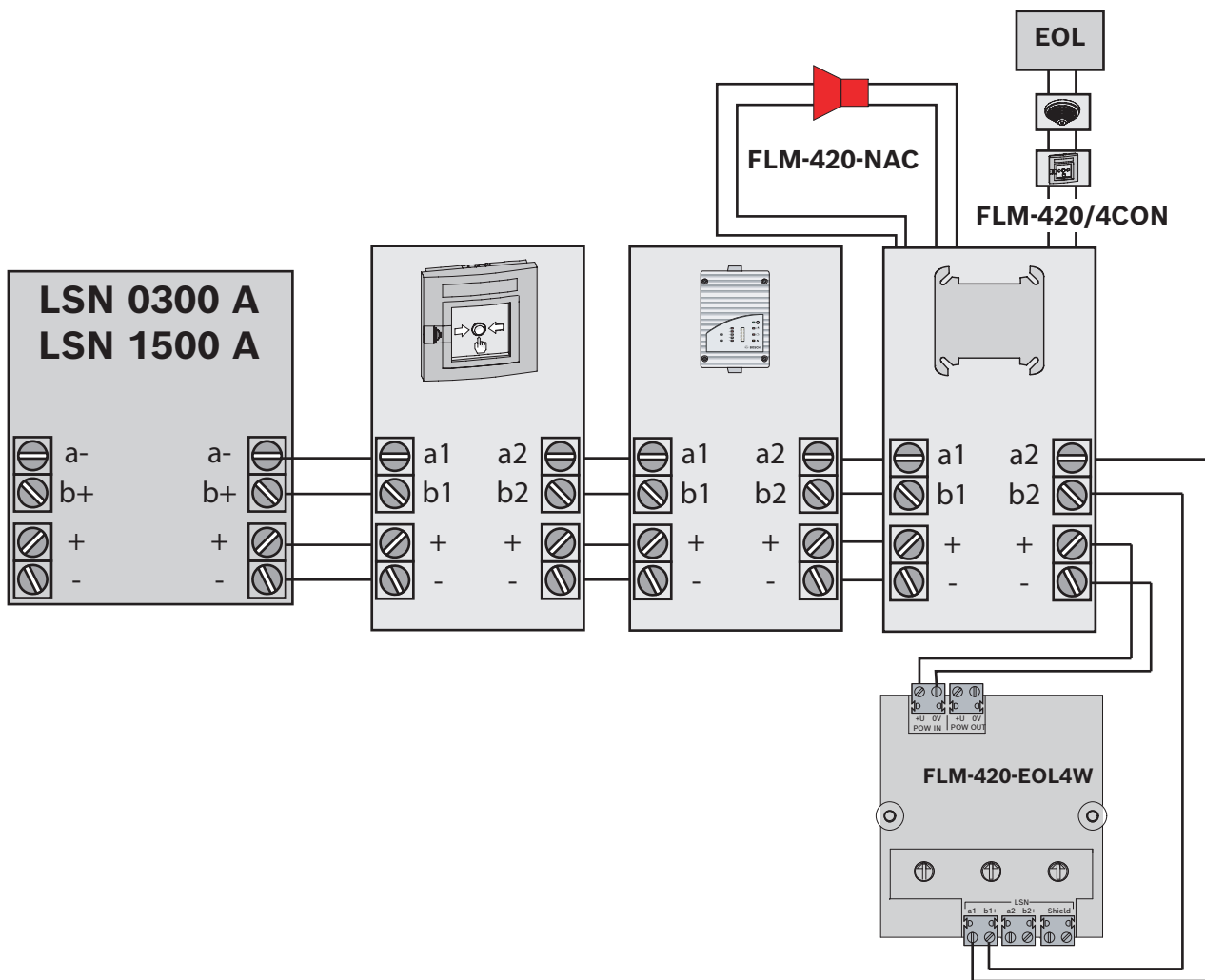
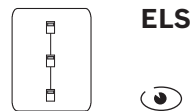
ELS

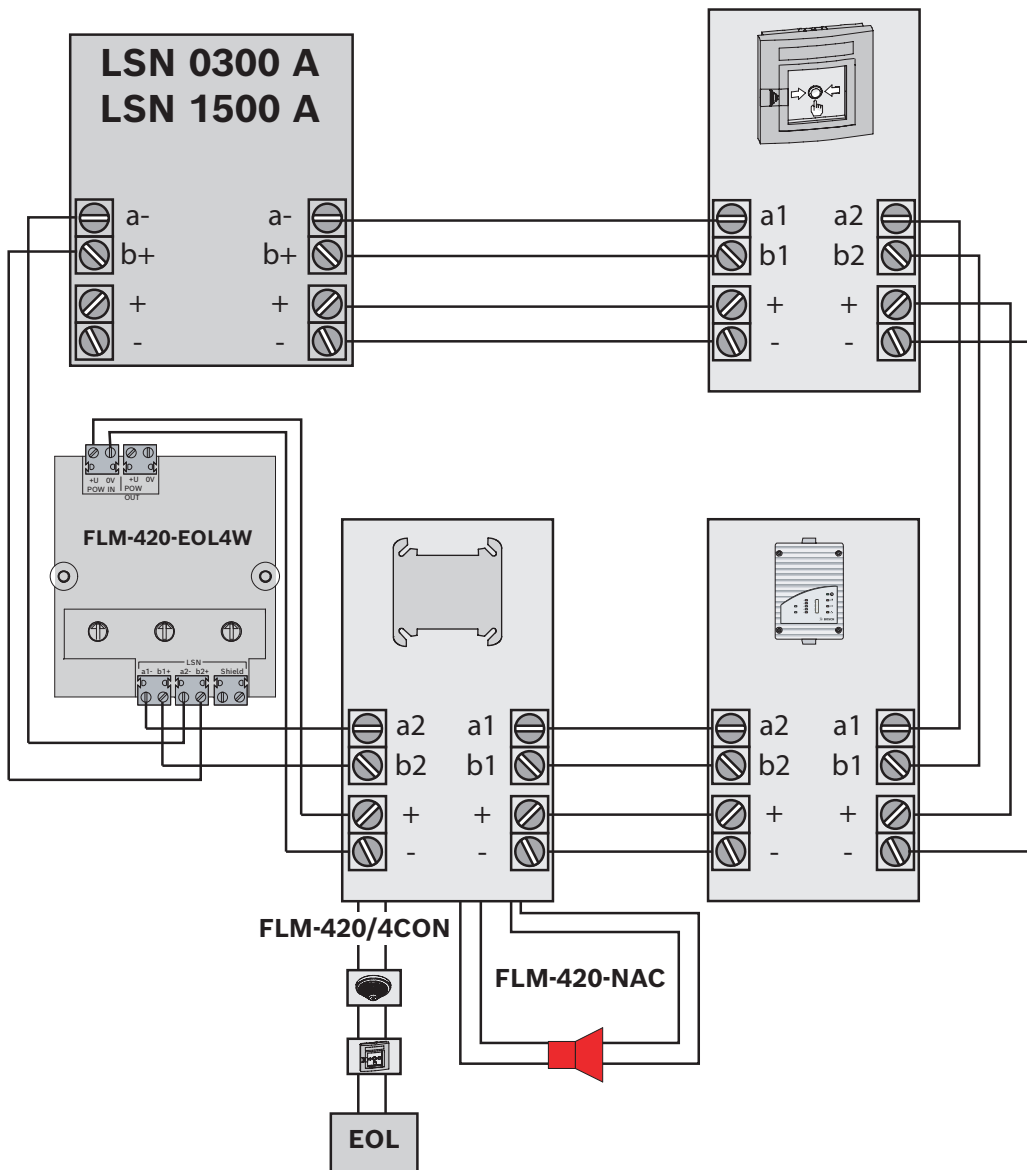
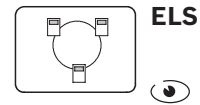




2.6.2 LSN 0300 A

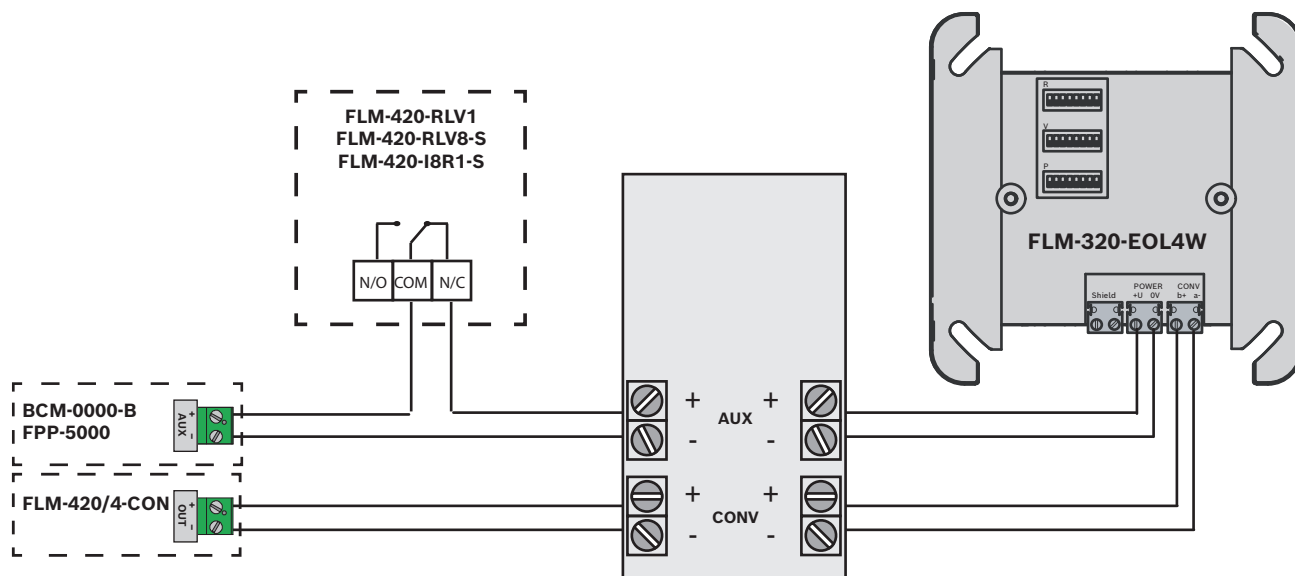


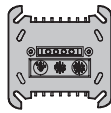
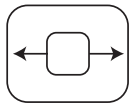




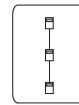
Reset action

ELS

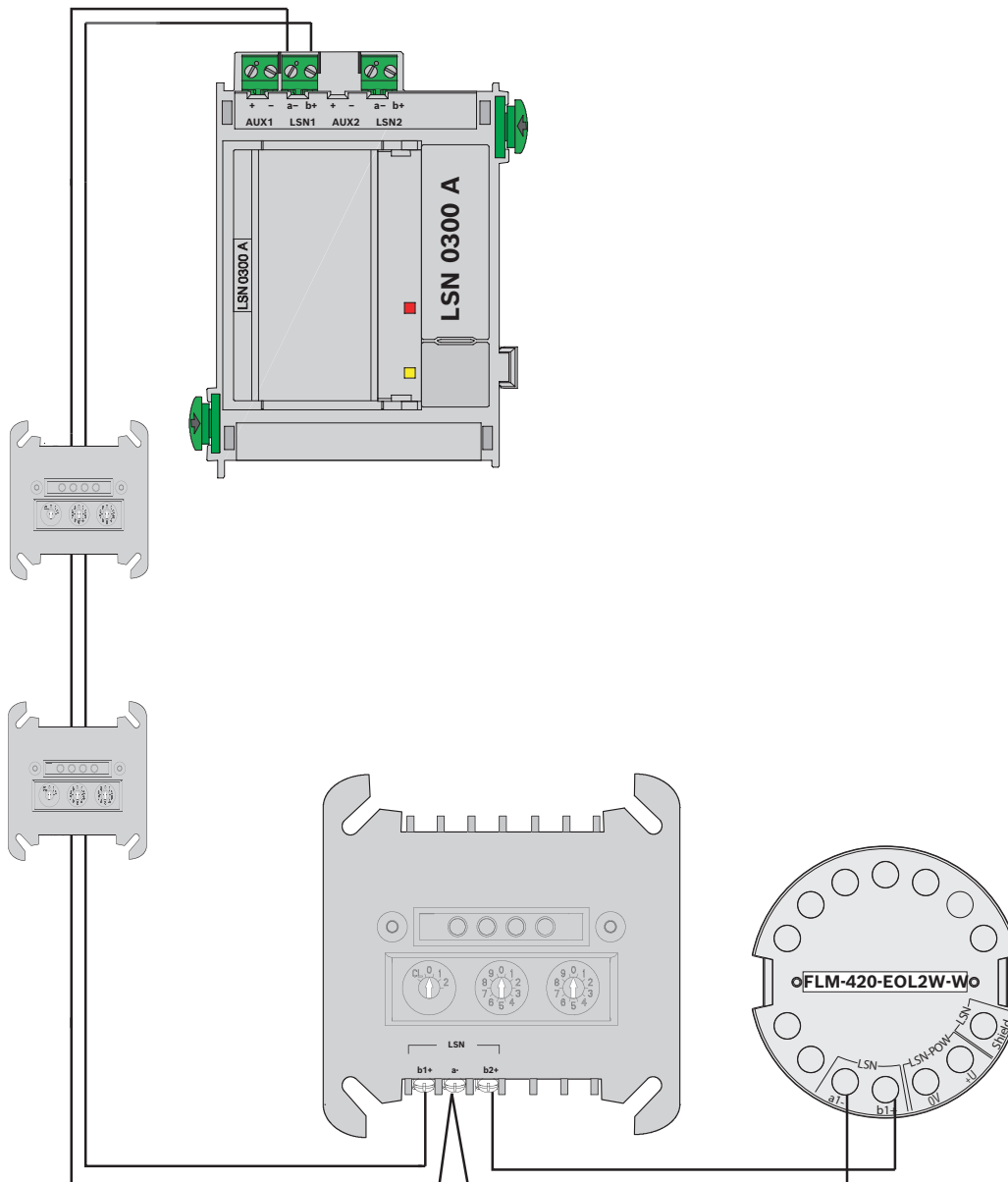




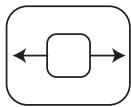
FLM-420-I2-D  
 FLM-420-O111-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D



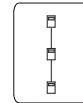
ELS



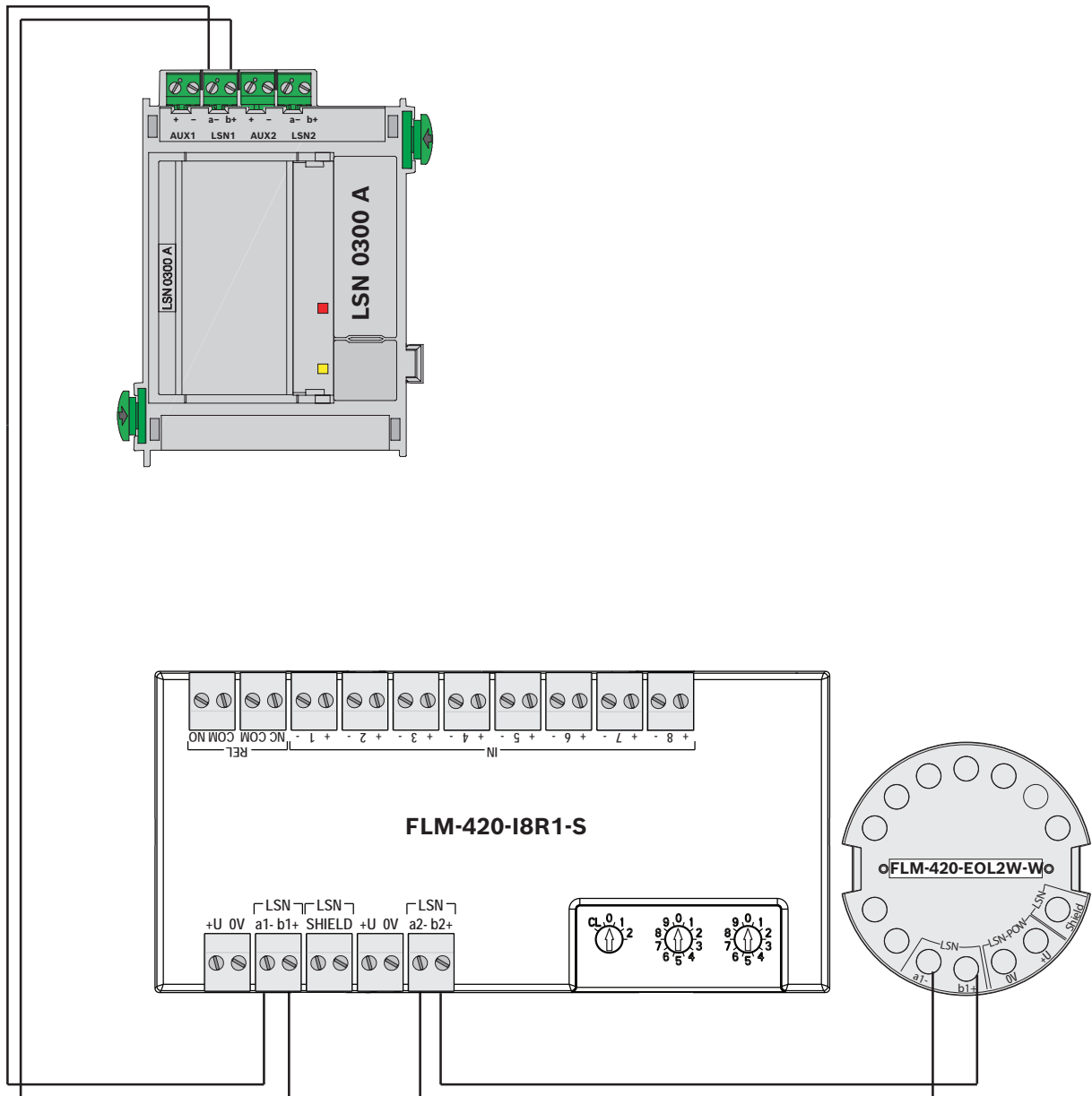


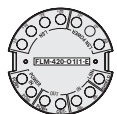
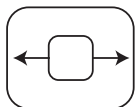


**FLM-420-18R1-S**

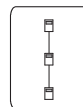


**ELC**

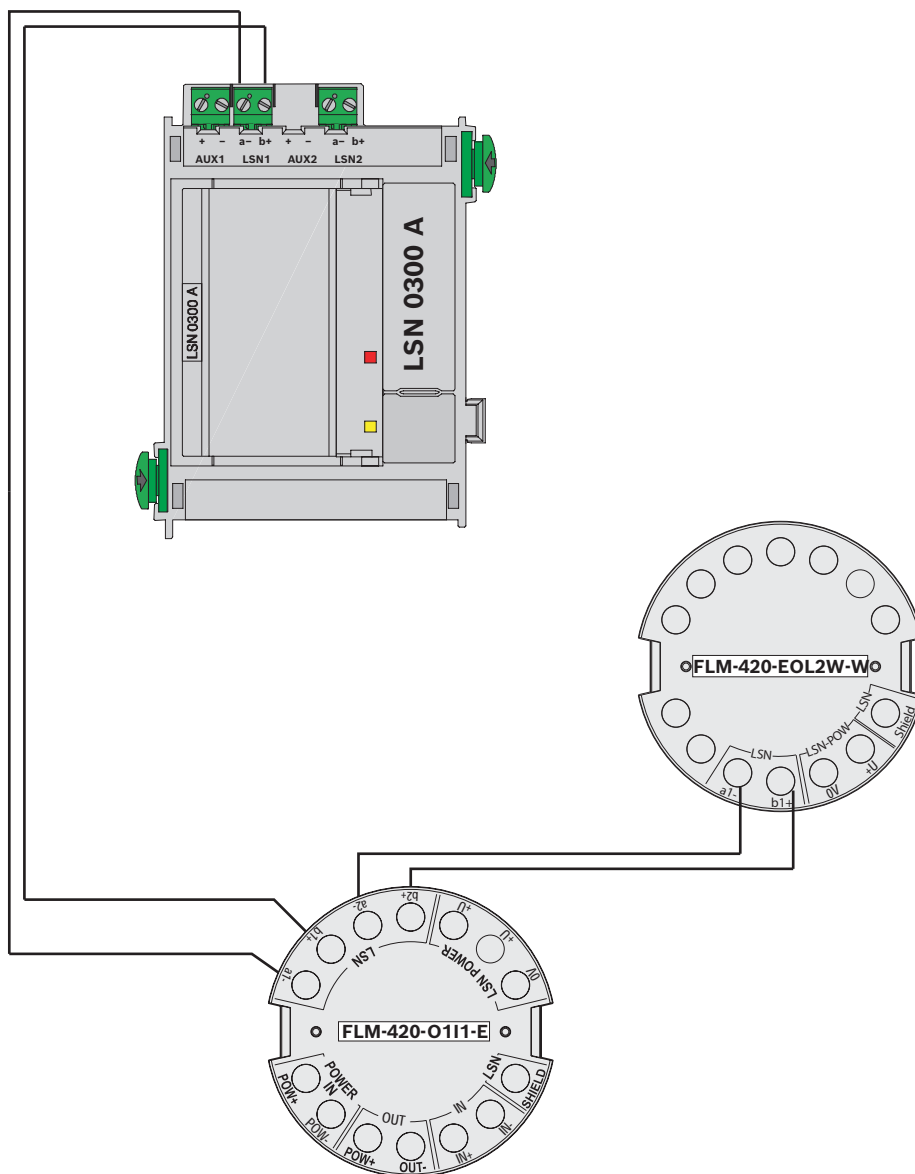




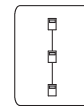
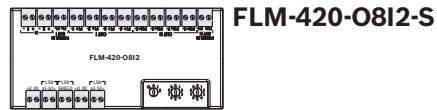
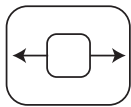
FLM-420-O1I1-E



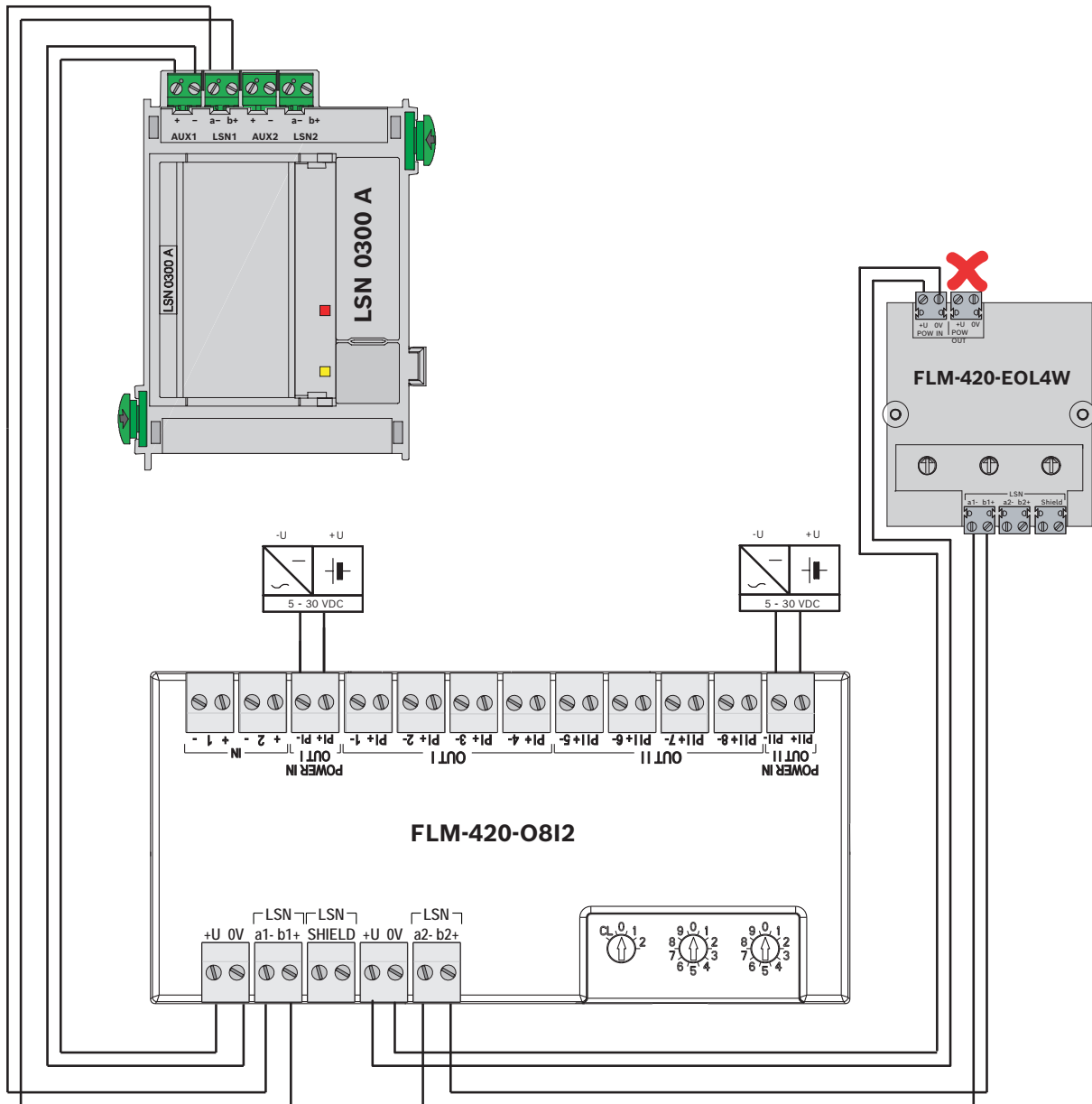
ELS

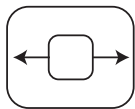




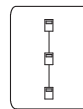


ELS

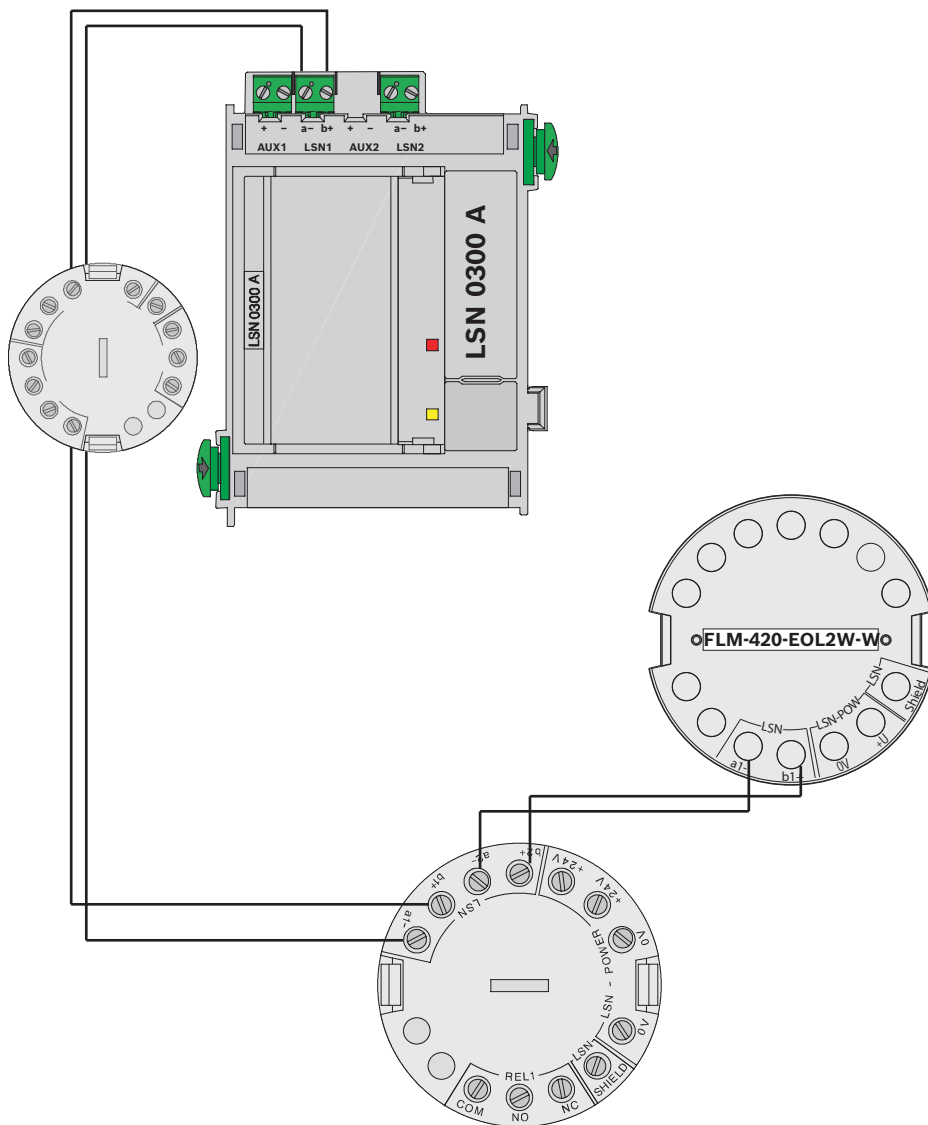


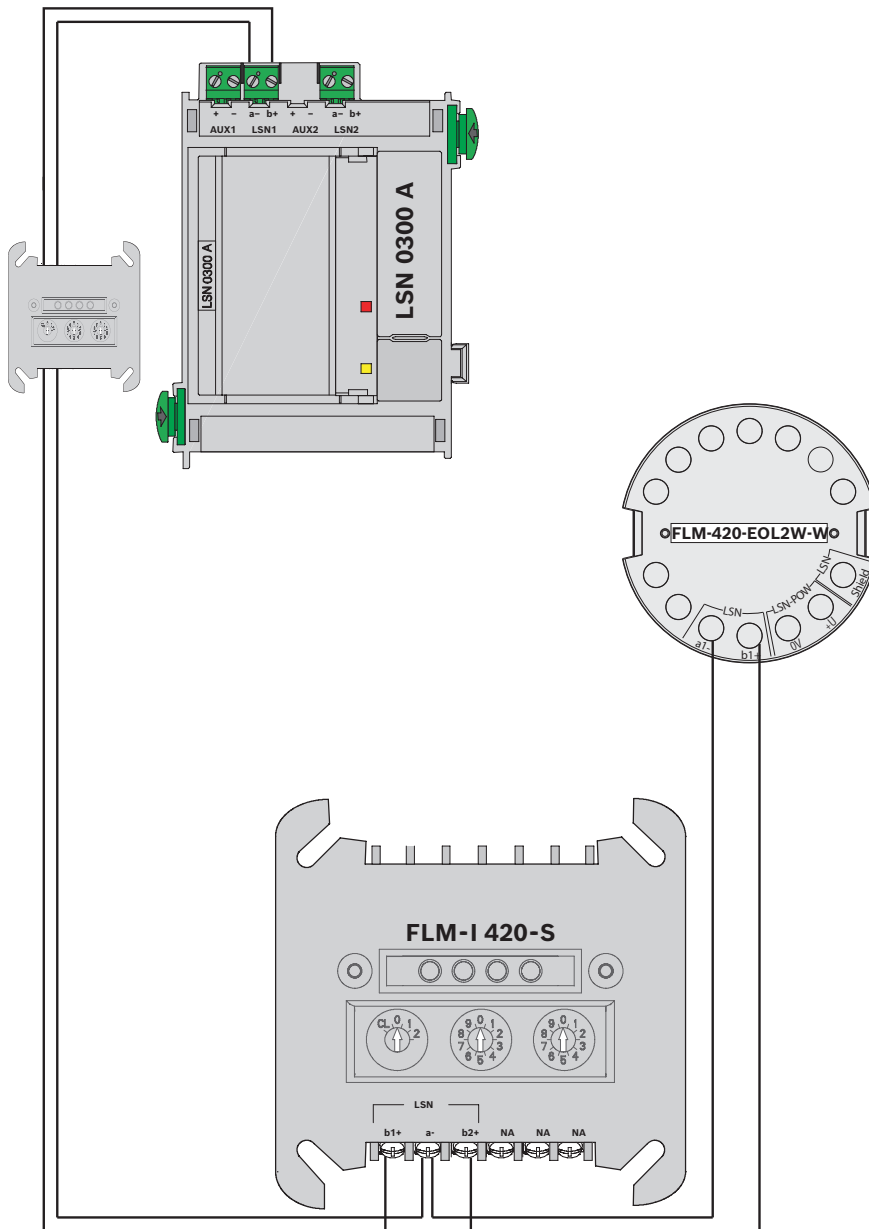
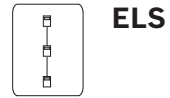
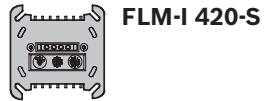
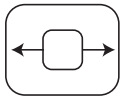


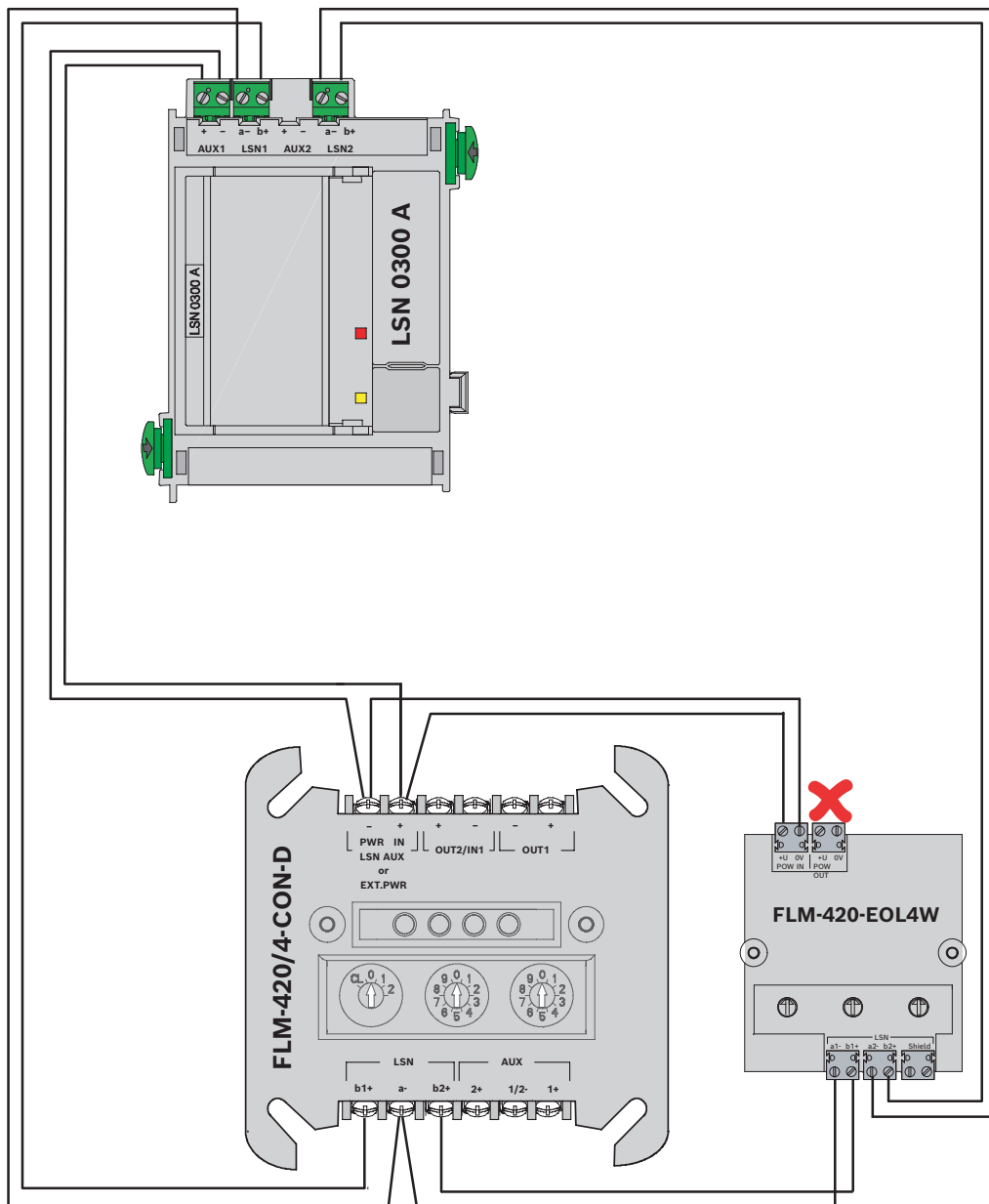
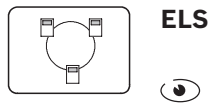
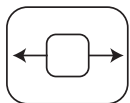
**FLM-420-I2-E/-W**  
**FLM-420-RLV1-E**

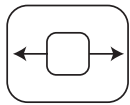


**ELS**

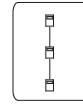




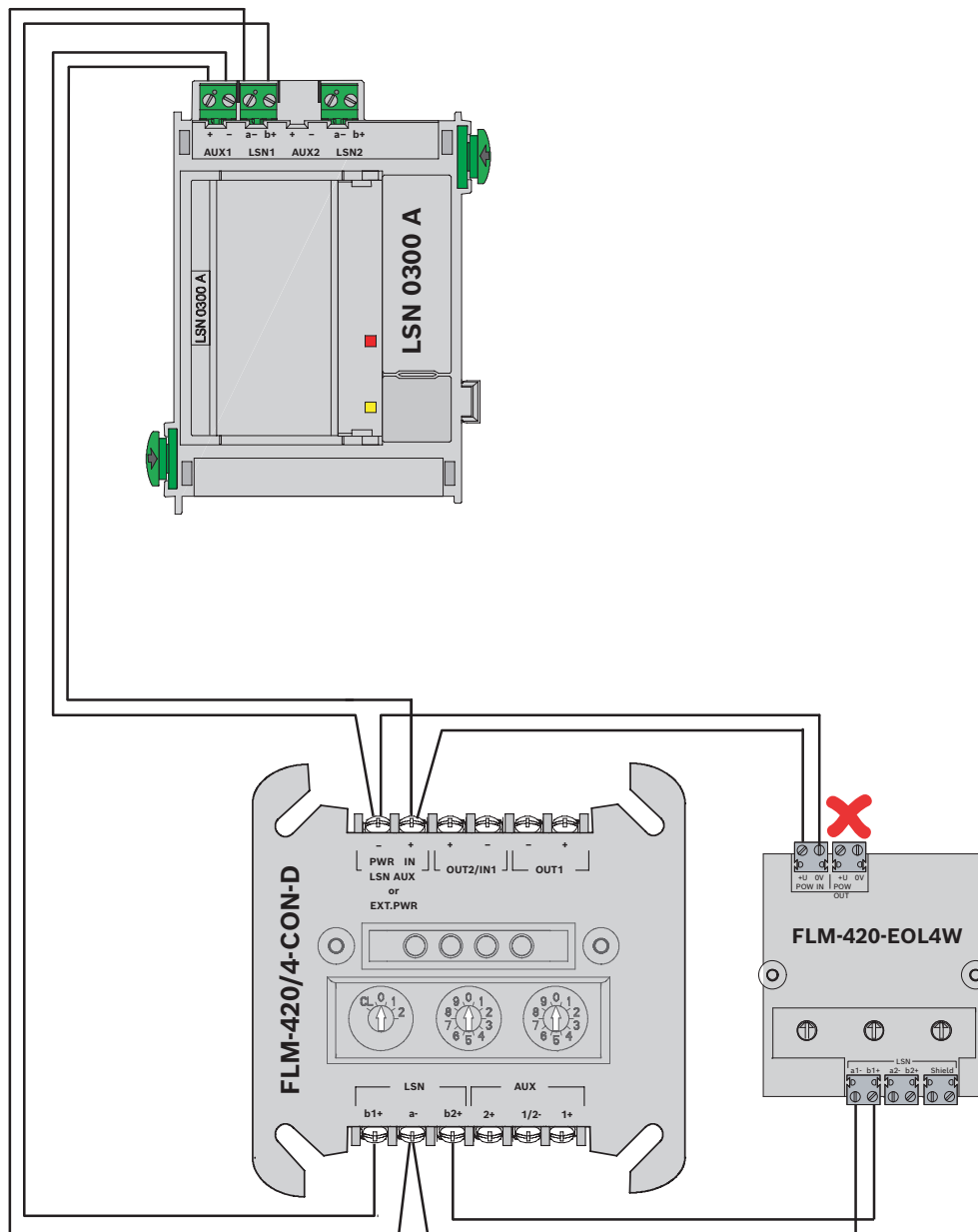


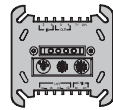
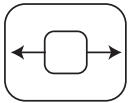


**FLM-420/  
4-CON-D**

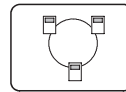


**ELS**

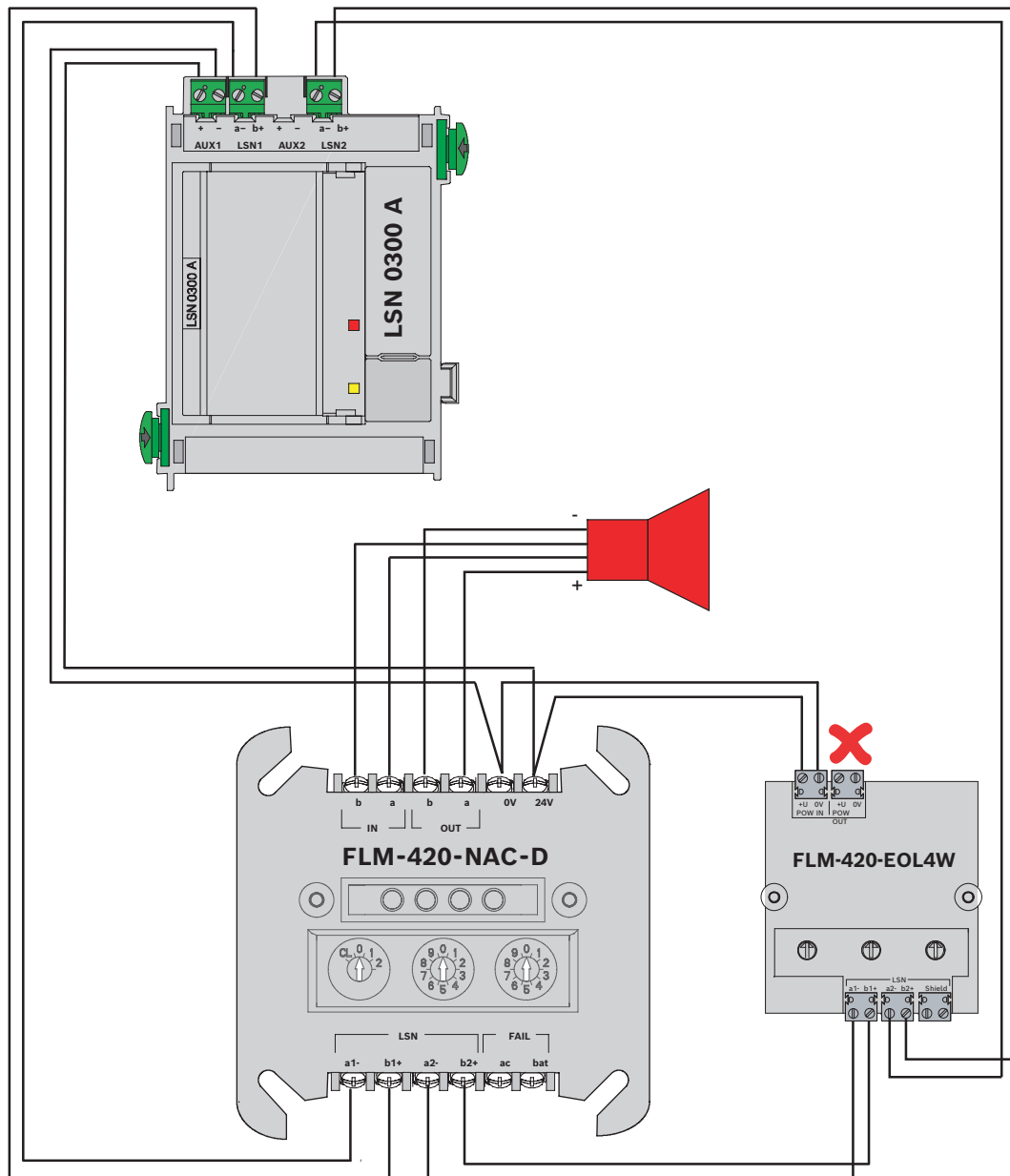


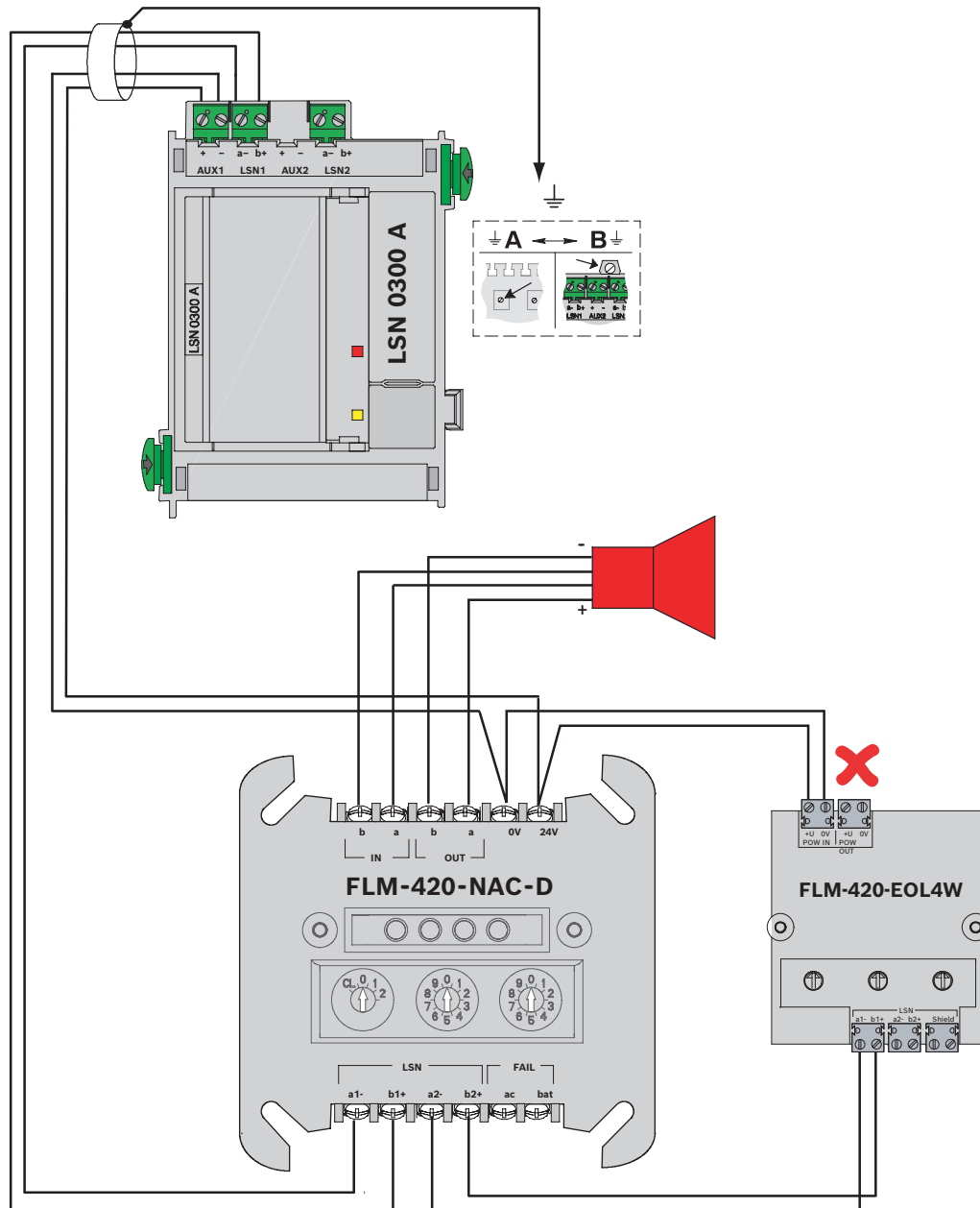
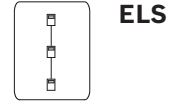
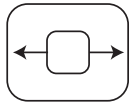


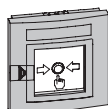
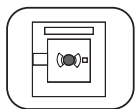
FLM-420-NAC-D/S



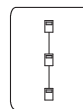
ELS  
EN 54-2



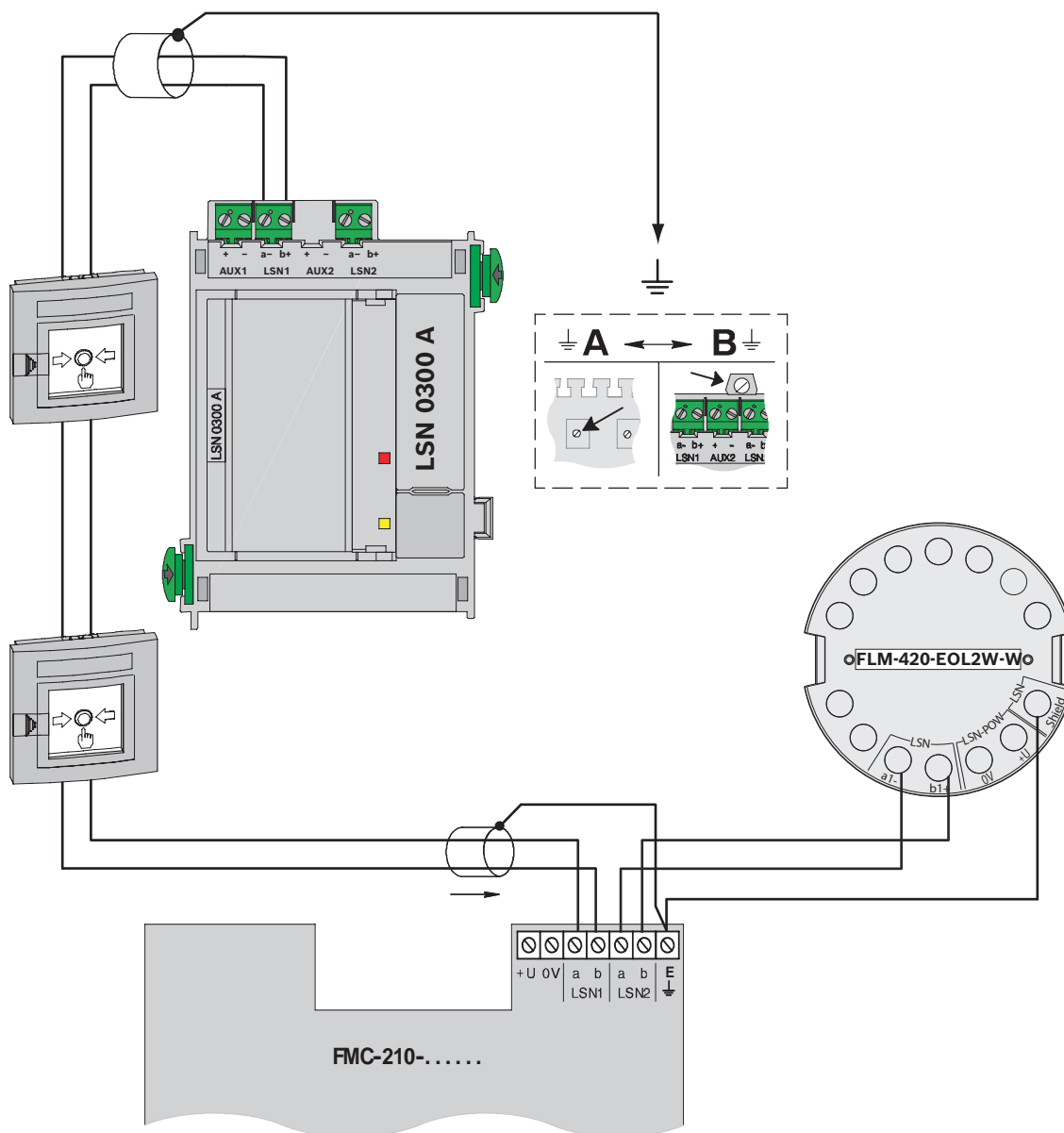




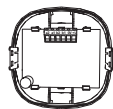
FMC-210...



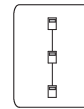
ELS



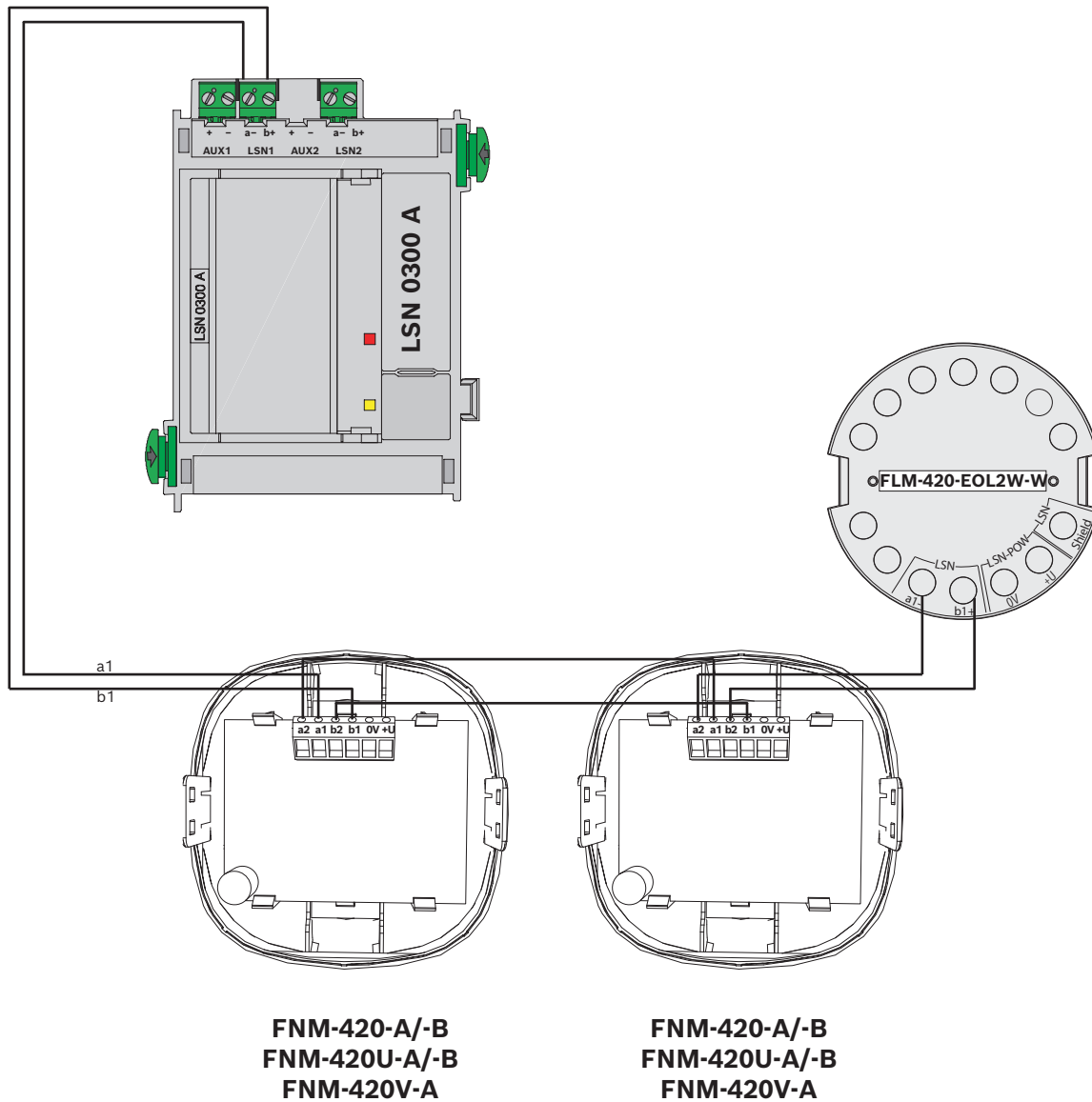




**FNM-420-A /-B**  
**FNM-420U-A /-B**  
**FNM-420V-A**



**ELS**



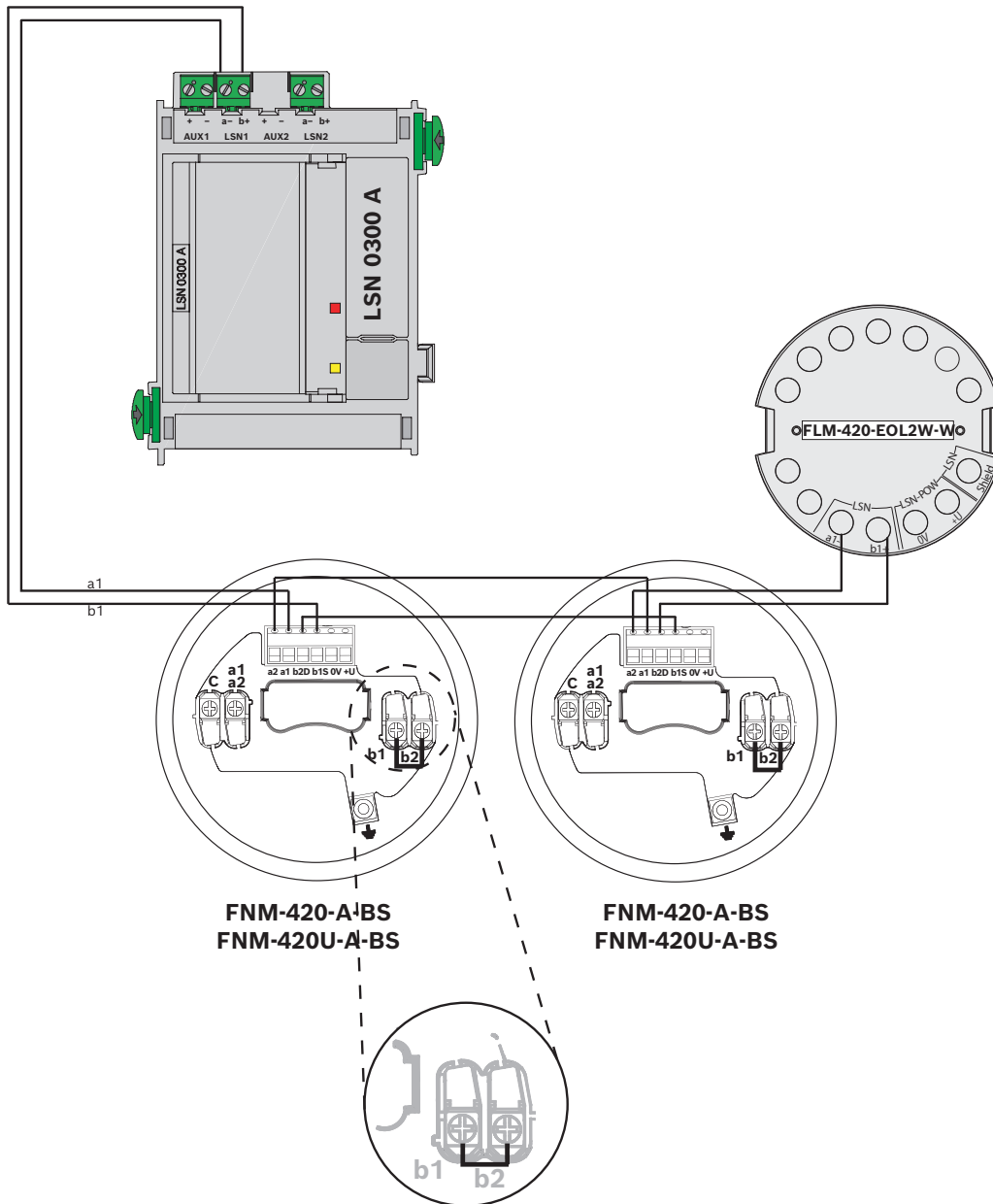


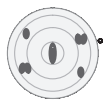


**FNM-420-A-BS**  
**FNM-420U-A-BS**



**ELS**

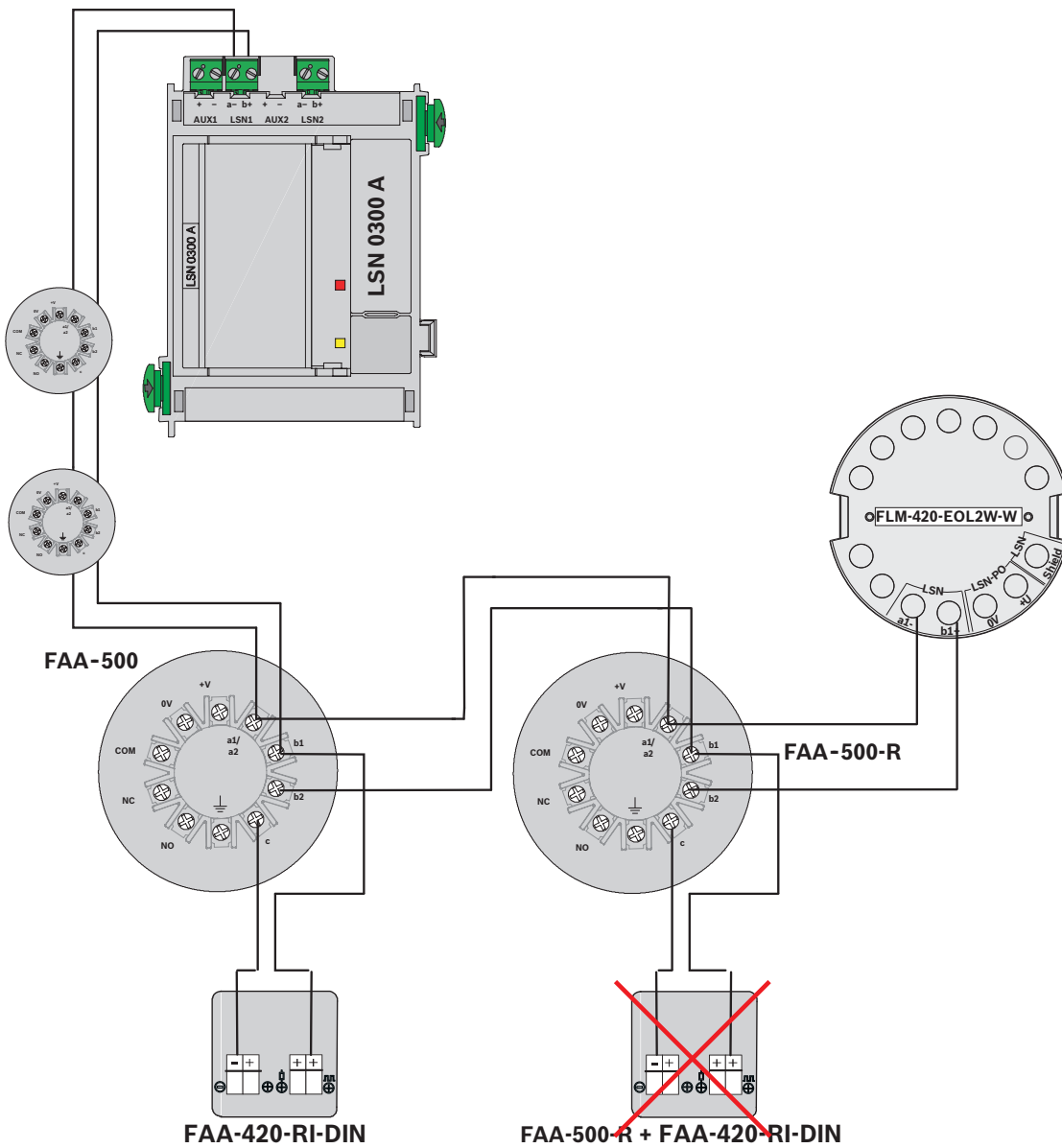


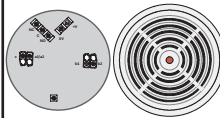


FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P

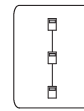


ELS

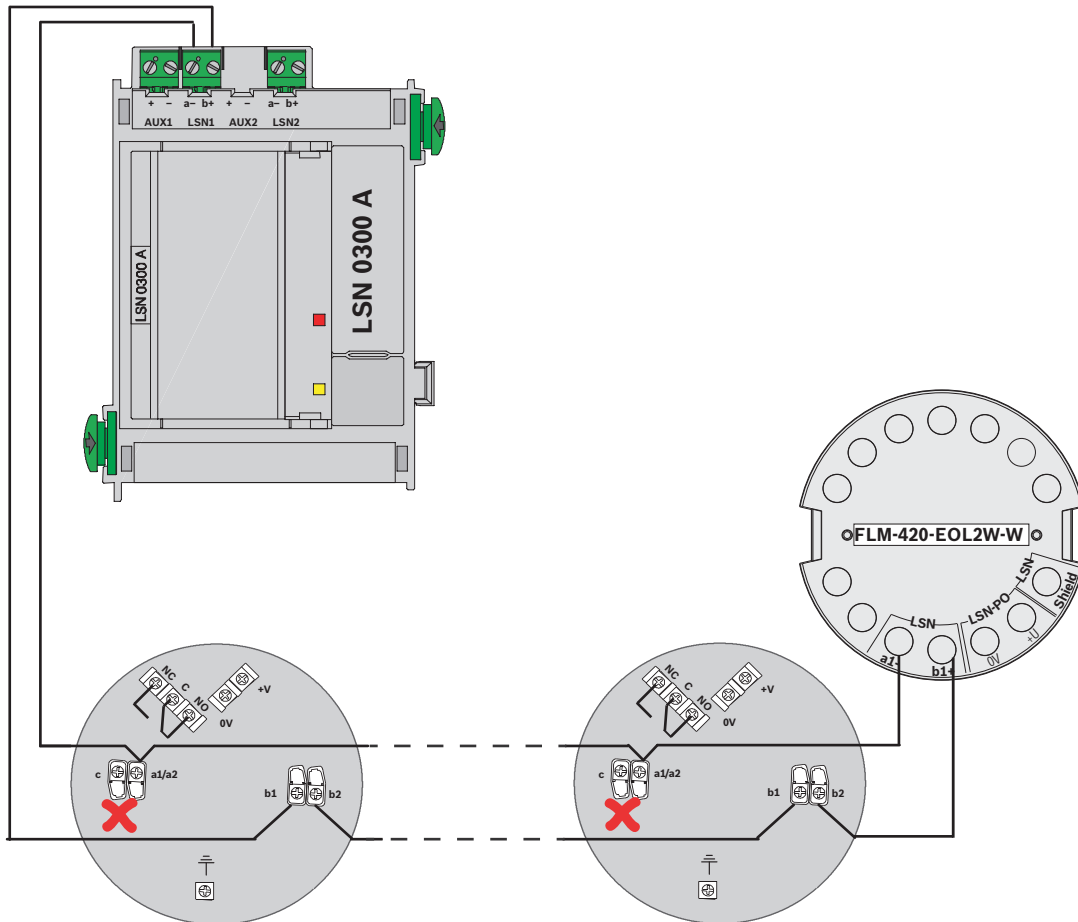


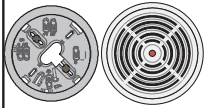


**FAA-MSR-420**  
**FAP-425-O, FAP-425-O-R**  
**FAP-425-OT, FAP-425-OT-R**  
**FAP-425-T-R**  
**FAP-425-DO-R, FAP-425-DOT-R**  
**FAP-425-DOTC-R, FAP-425-DOTCO-R**



**ELS**

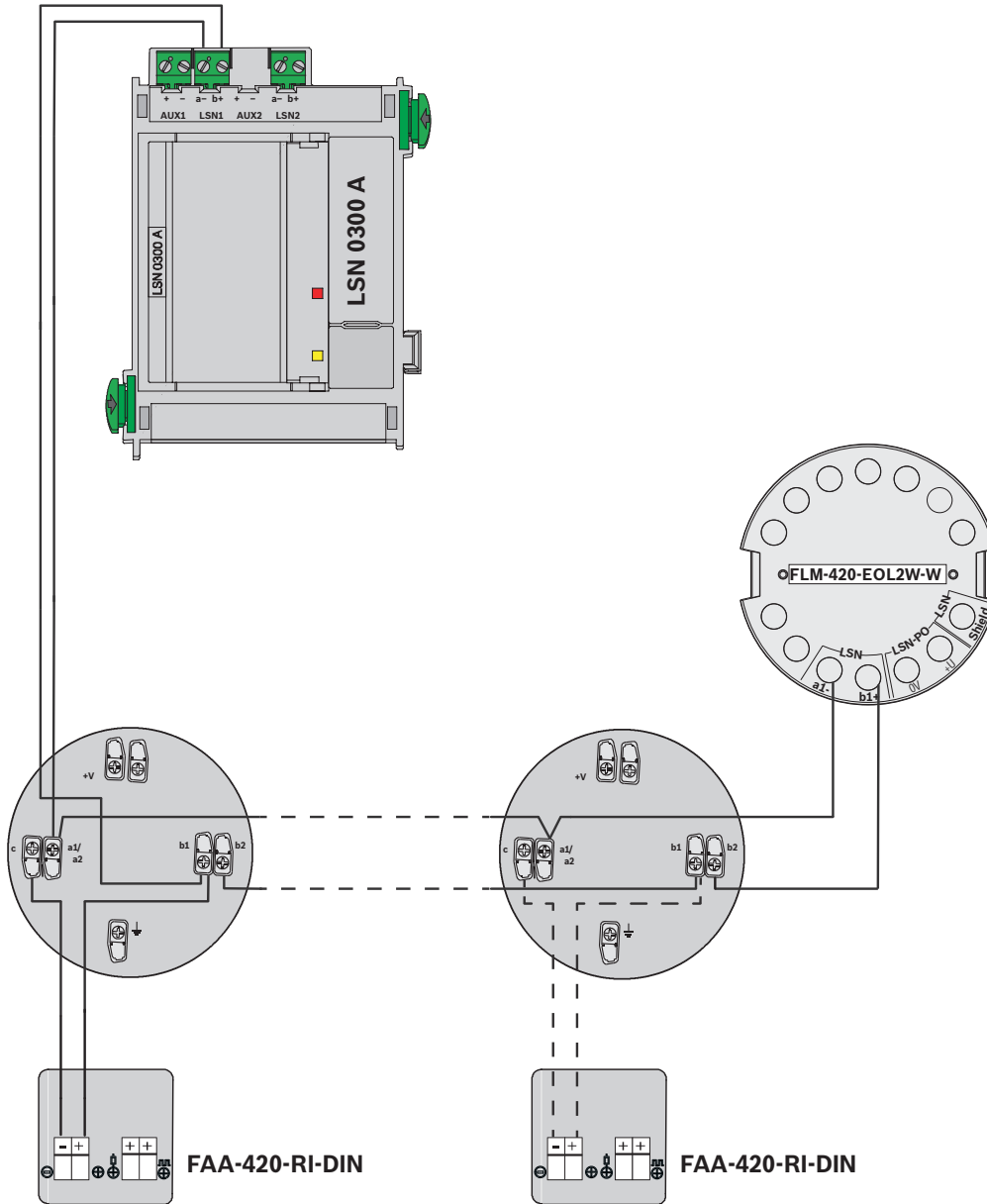


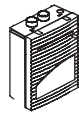


MS 400, MS 400 B  
 FAP-425-O, FAP-425-O-R  
 FAP-425-OT, FAP-425-OT-R  
 FAP-425-T-R  
 FAP-425-DO-R, FAP-425-DOT-R  
 FAP-425-DOTC-R, FAP-425-DOTCO-R

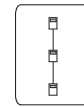


ELS

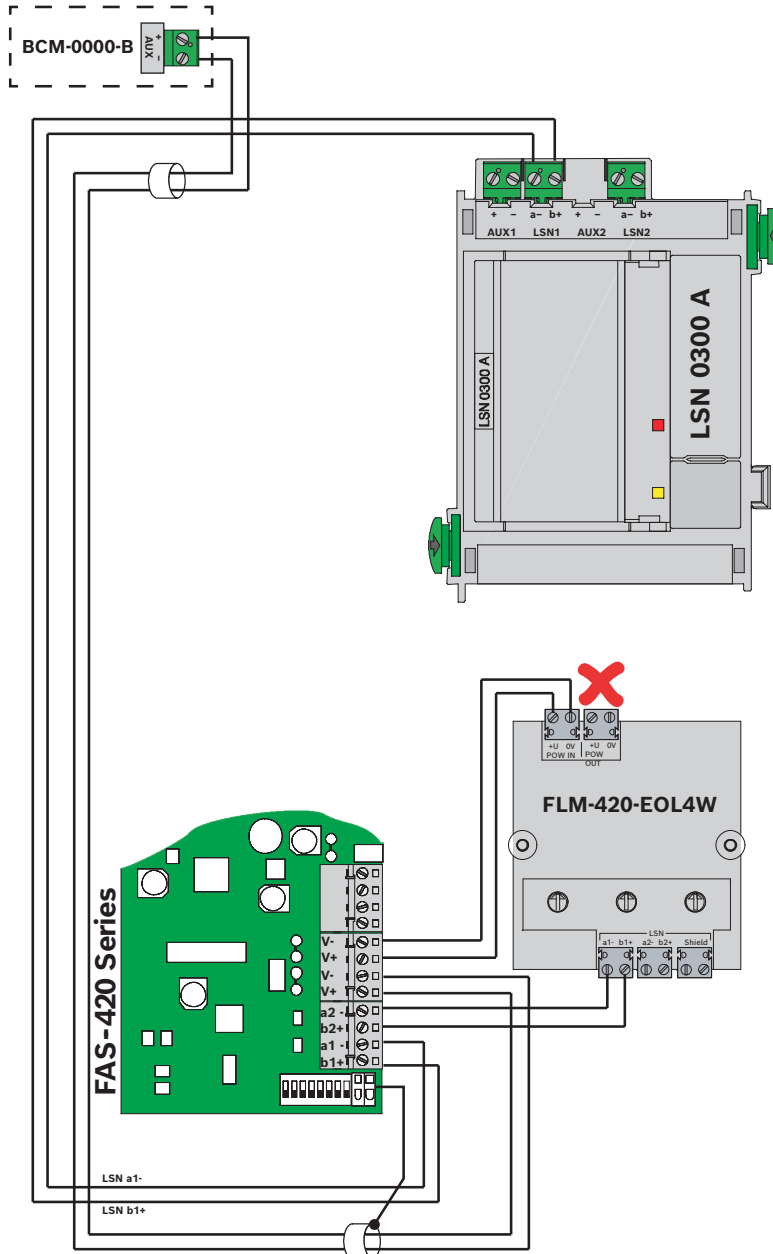


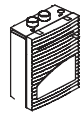


FAS-420 Series

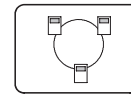


ELS

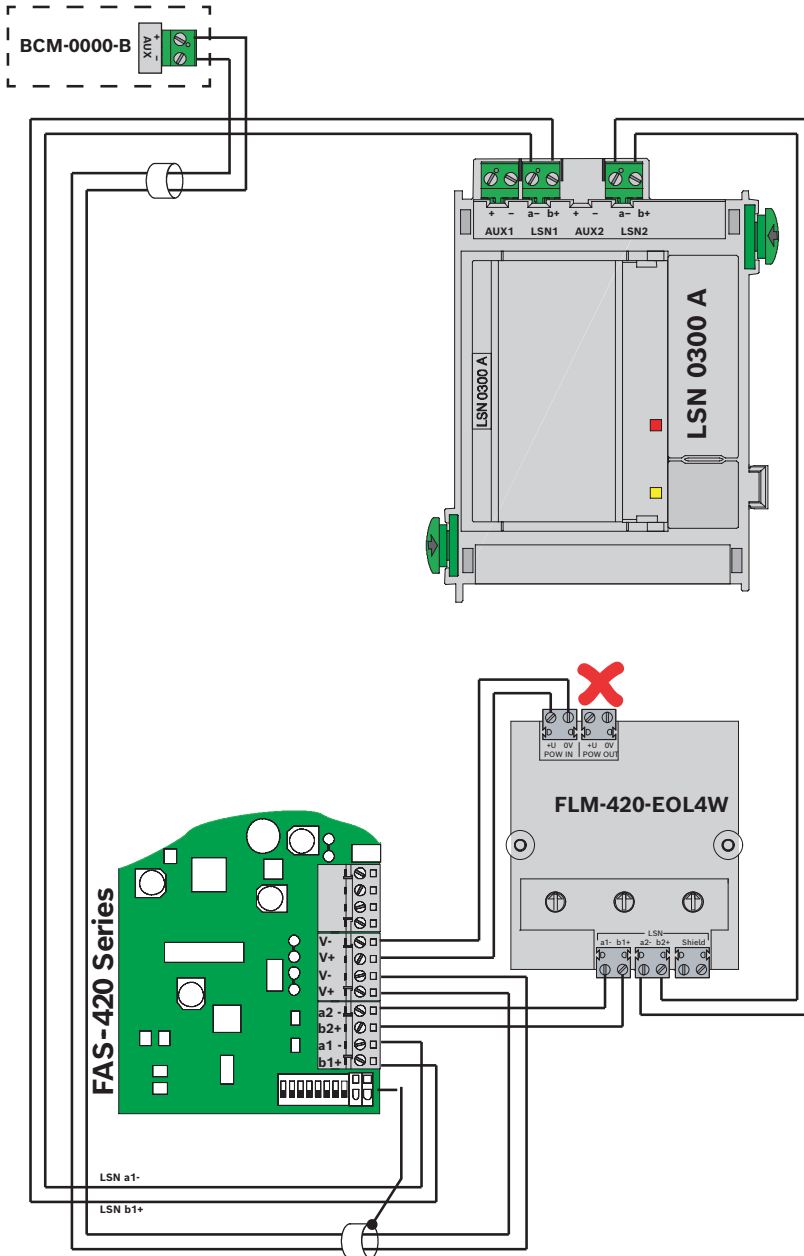




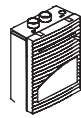
FAS-420 Series



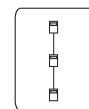
ELS



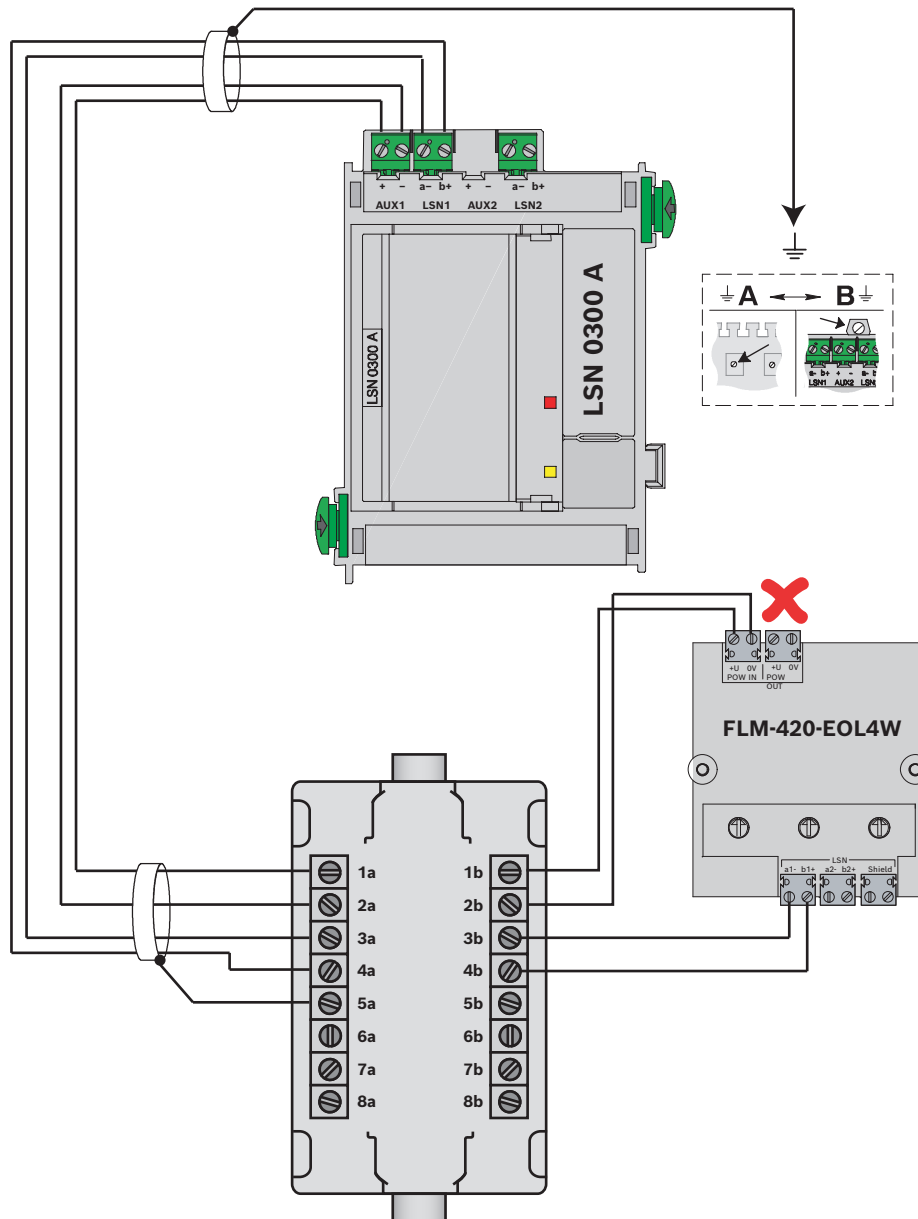


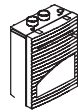


FAS-420-TM Series

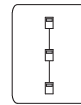


ELS

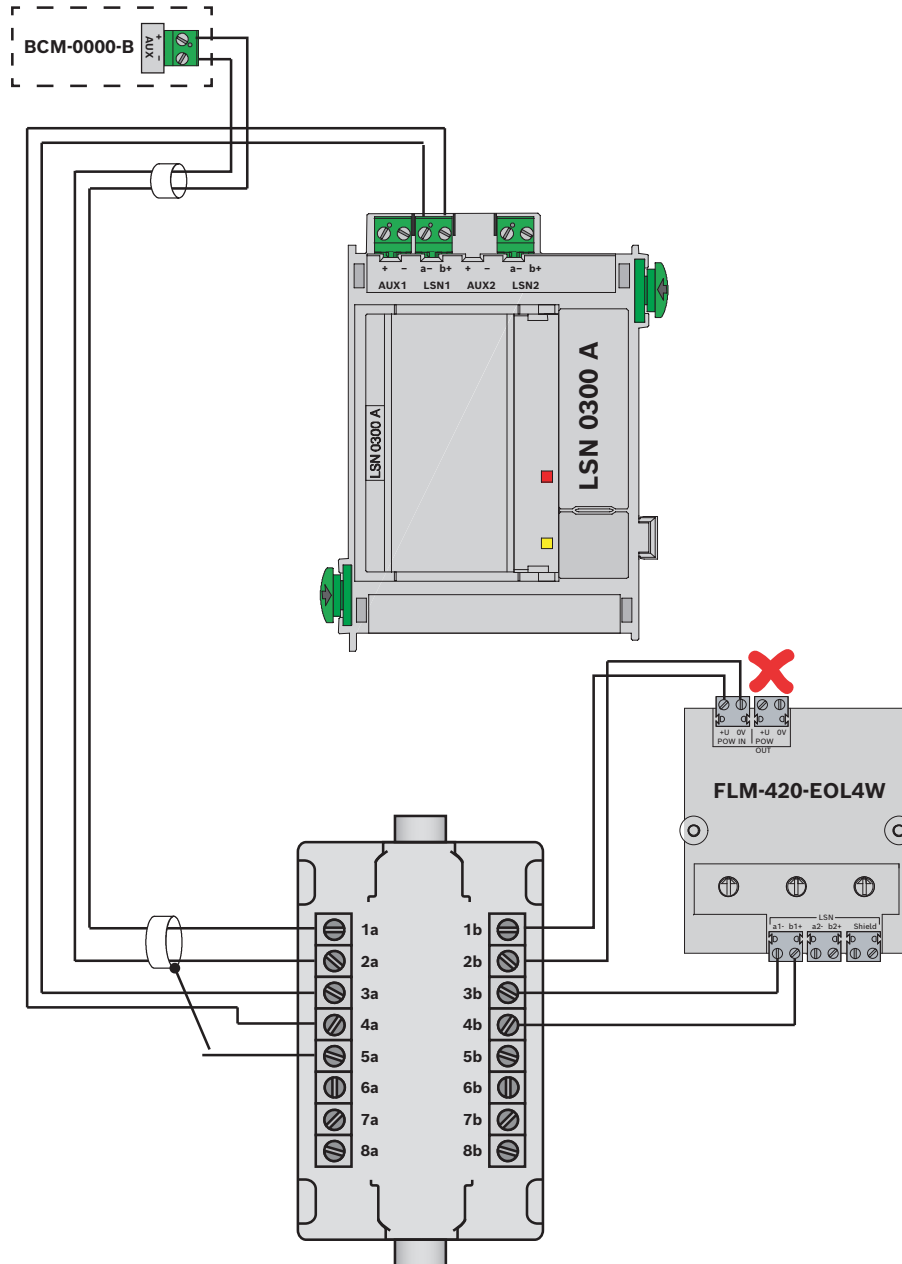


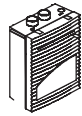


FAS-420-TM Series

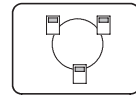


ELS

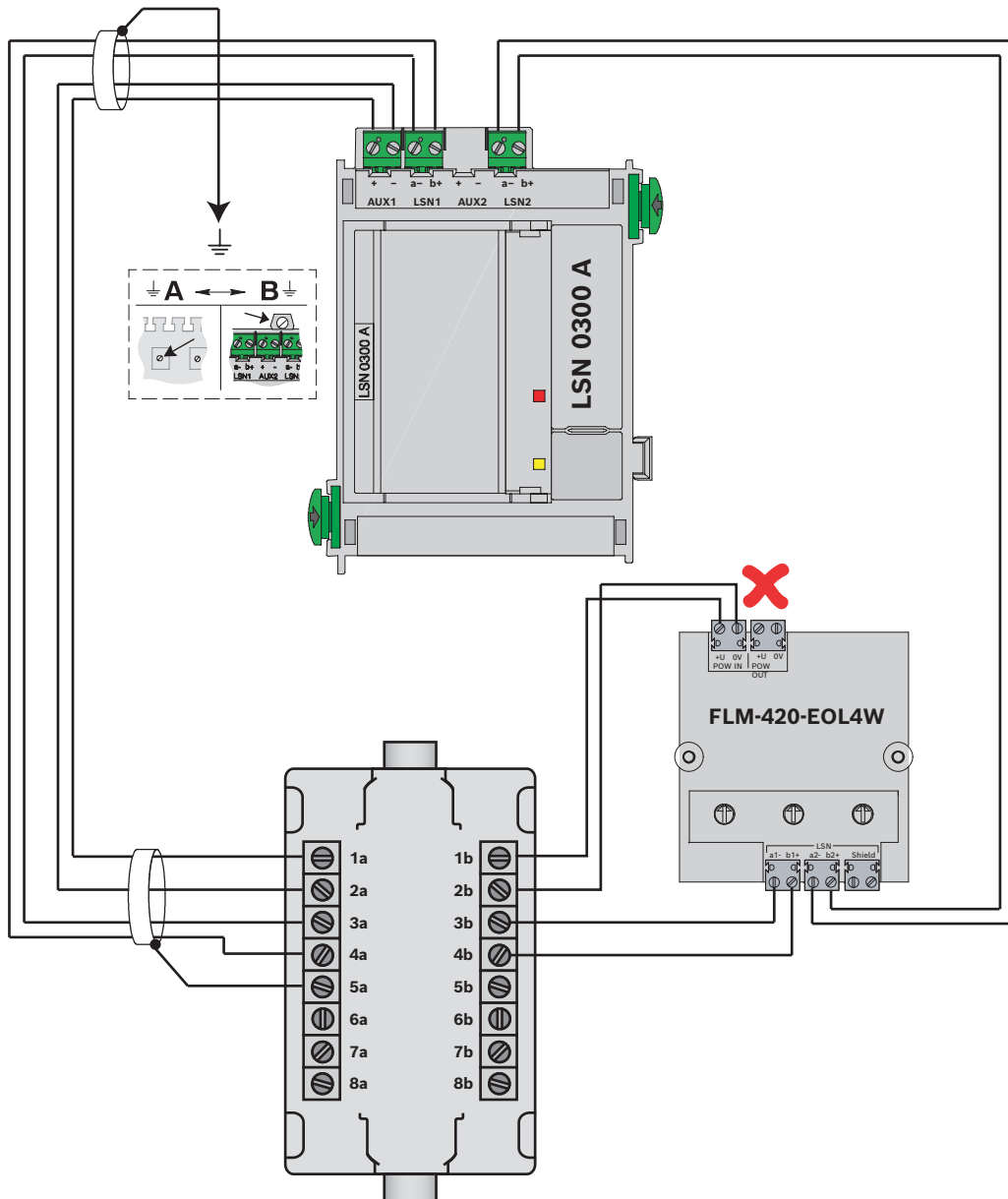


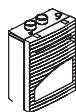


FAS-420-TM Series

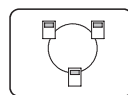


ELS

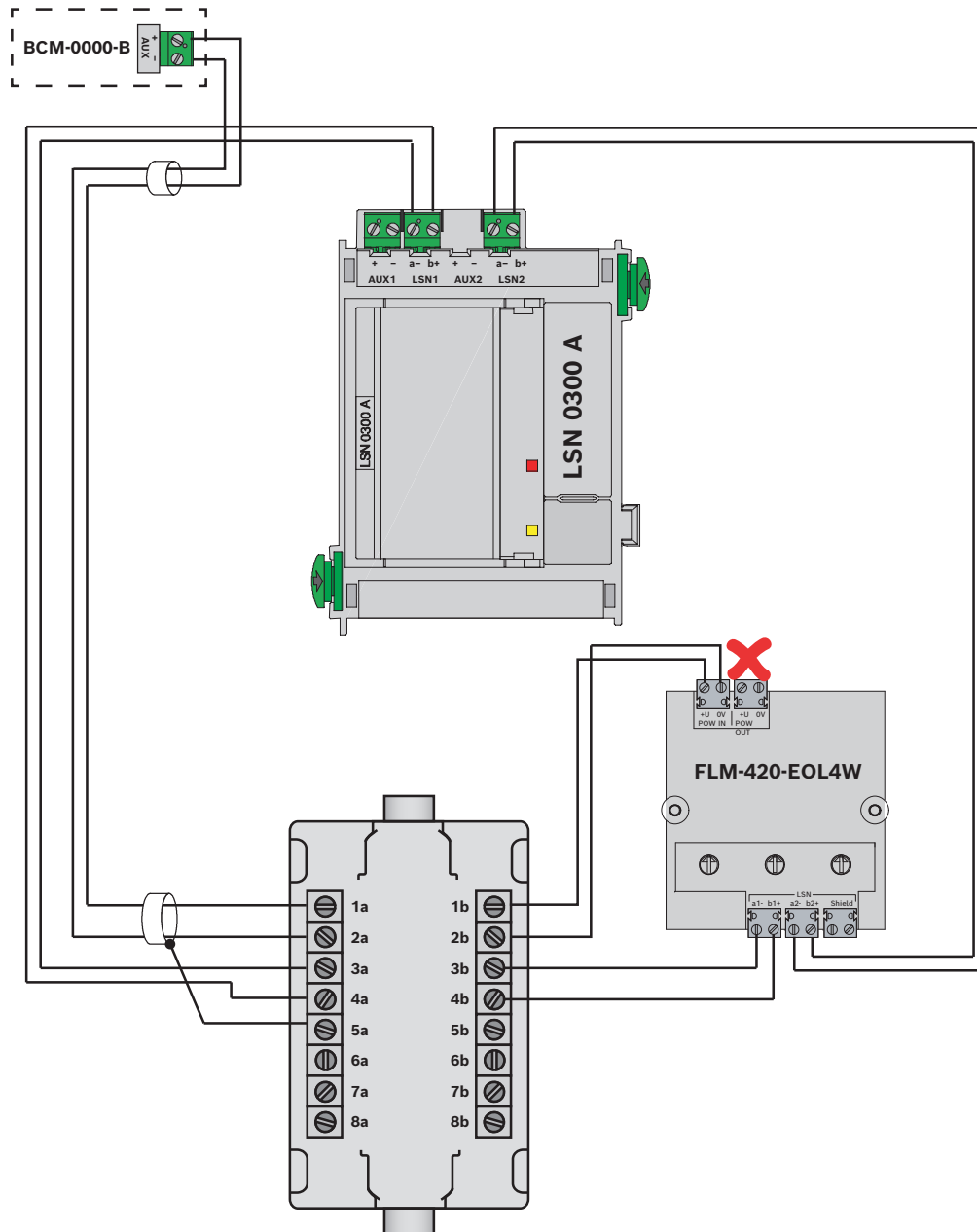




FAS-420-TM Series

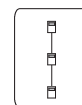


ELS

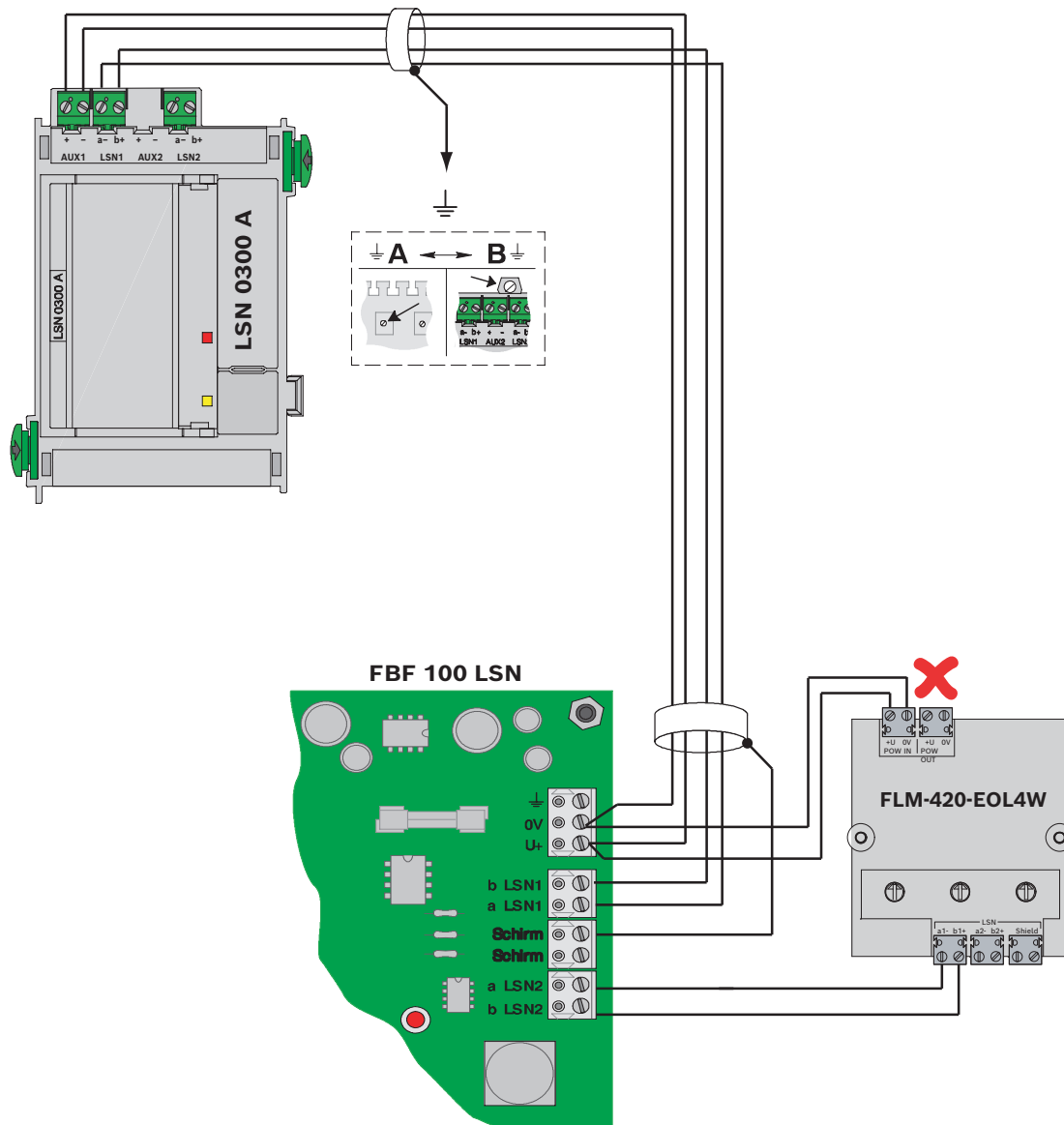




**FBF 100 LSN**

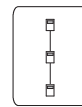


**ELS**

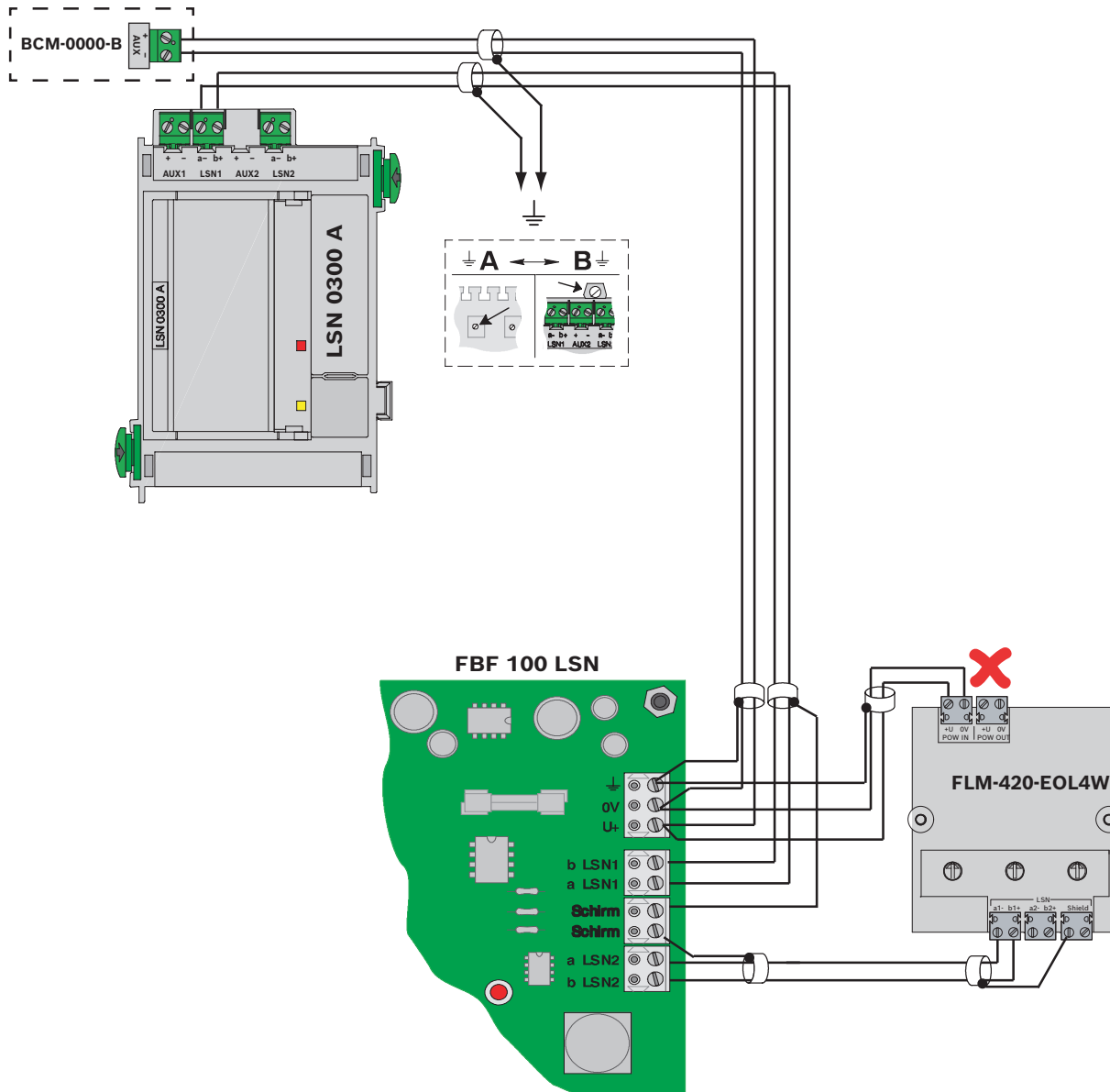




FBF 100 LSN

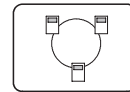


ELS

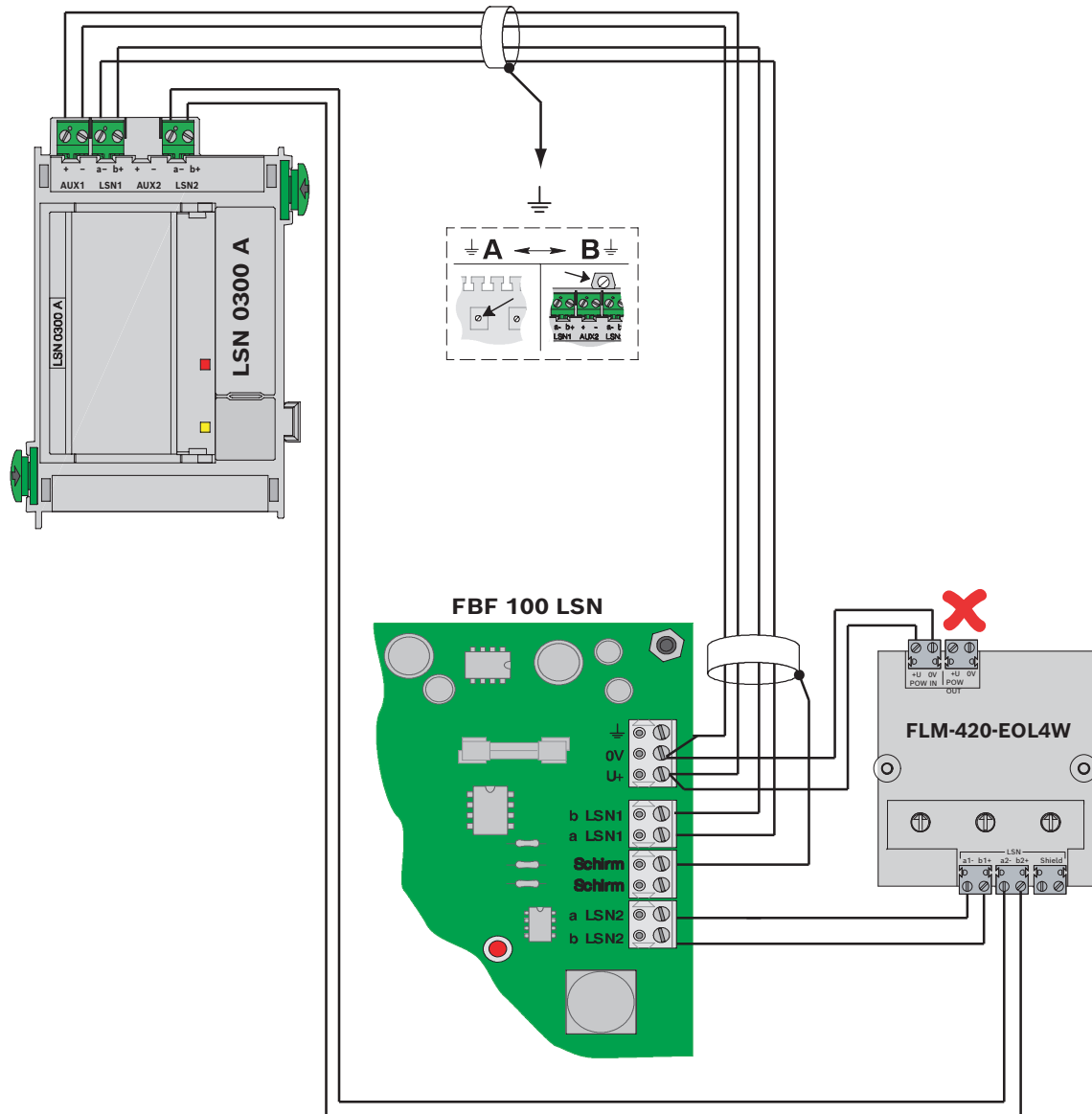




FBF 100 LSN

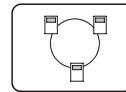


ELS

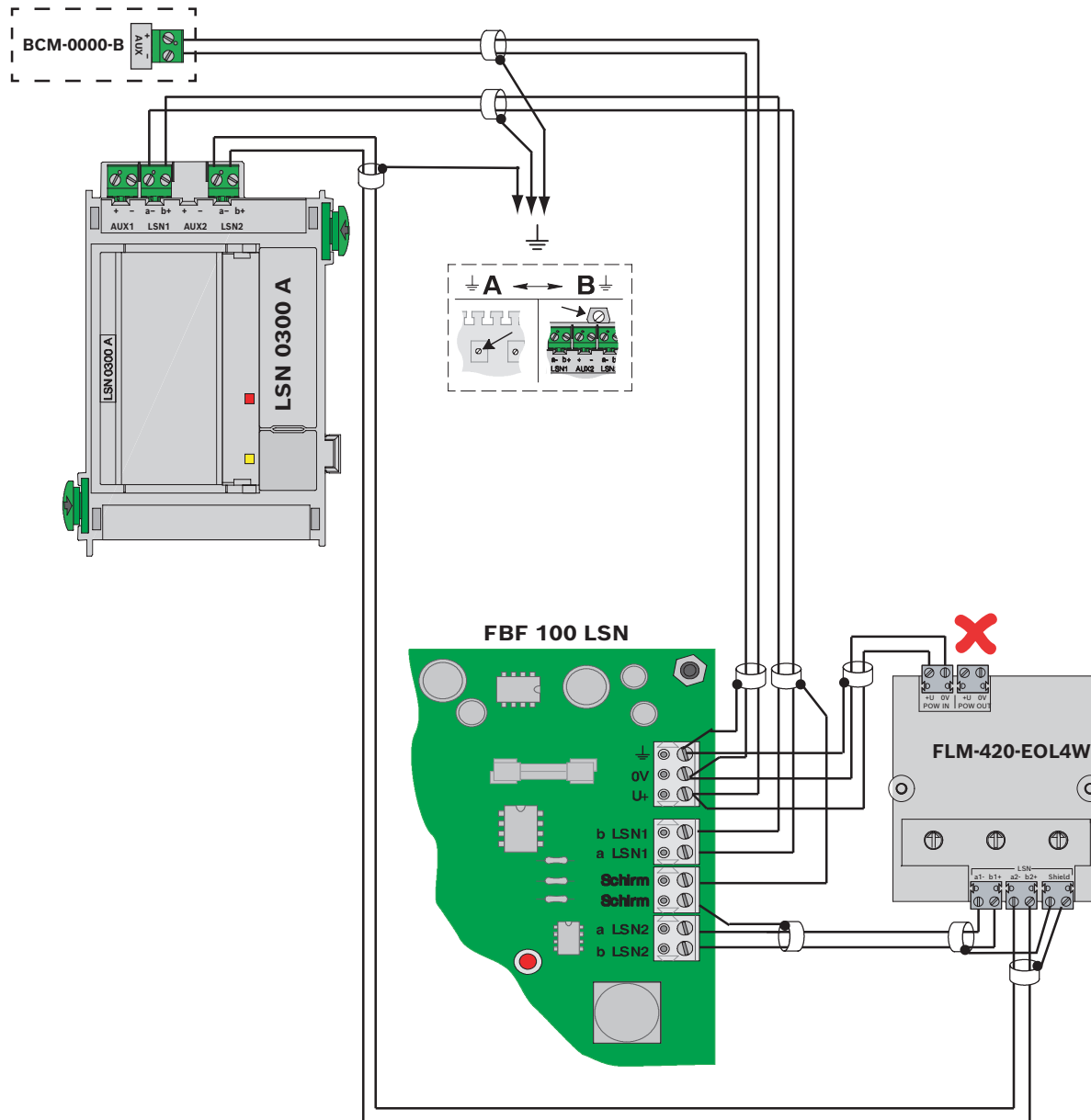




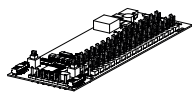
**FBF 100 LSN**



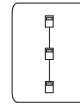
**ELS**



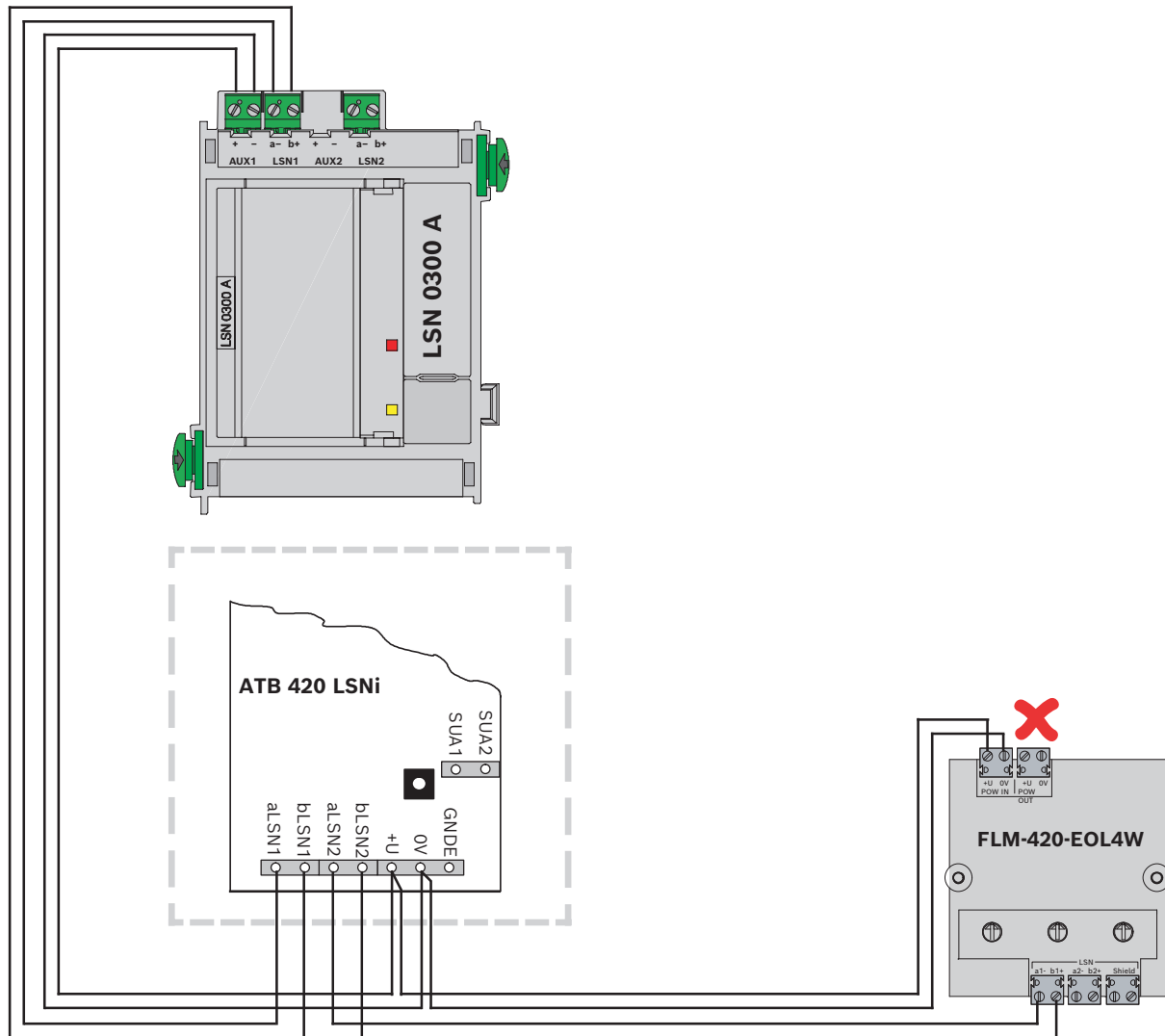


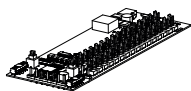


ATB 420 LSNi

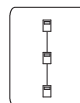


ELS

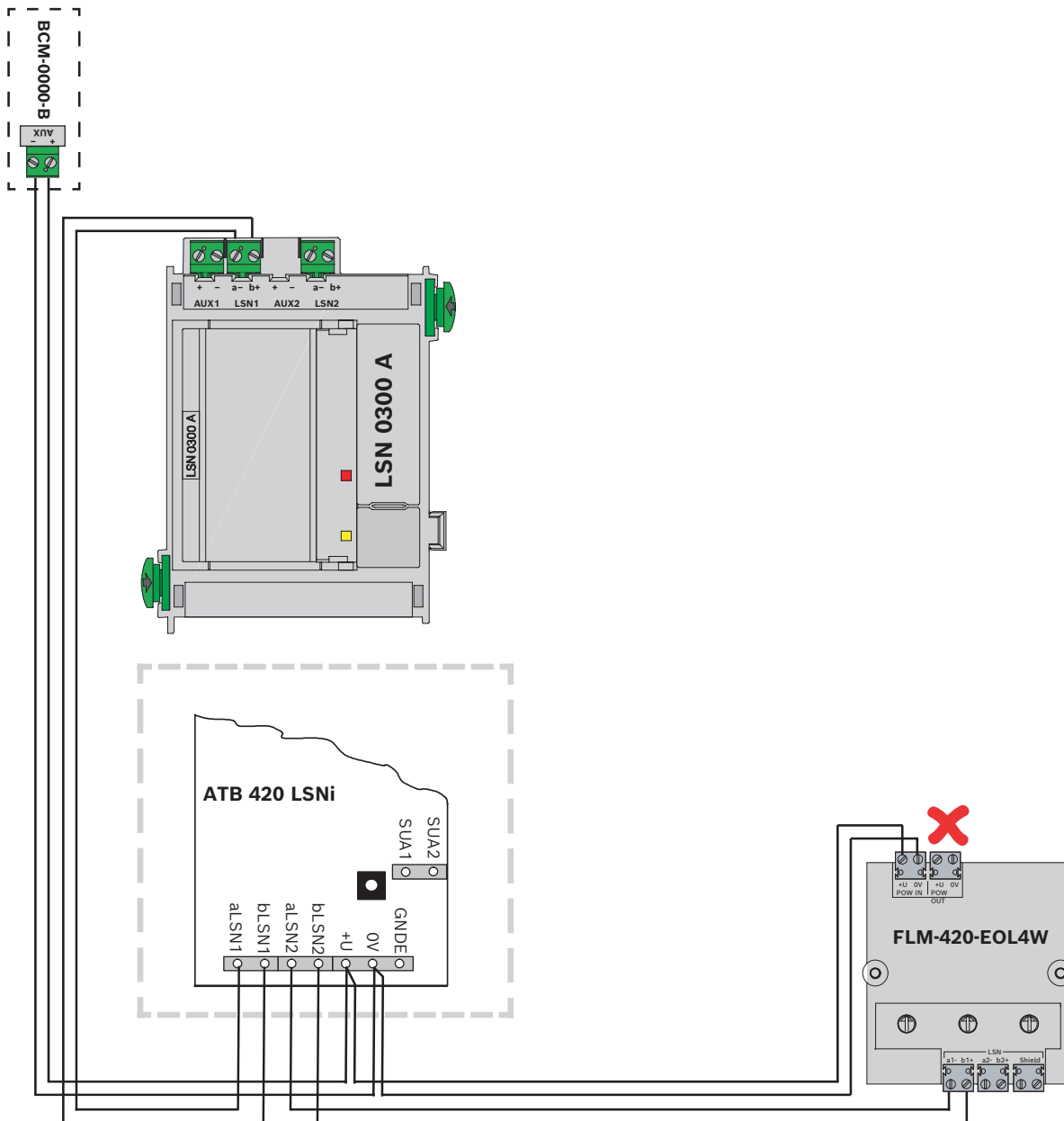


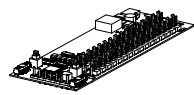


ATB 420 LSNi

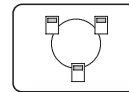


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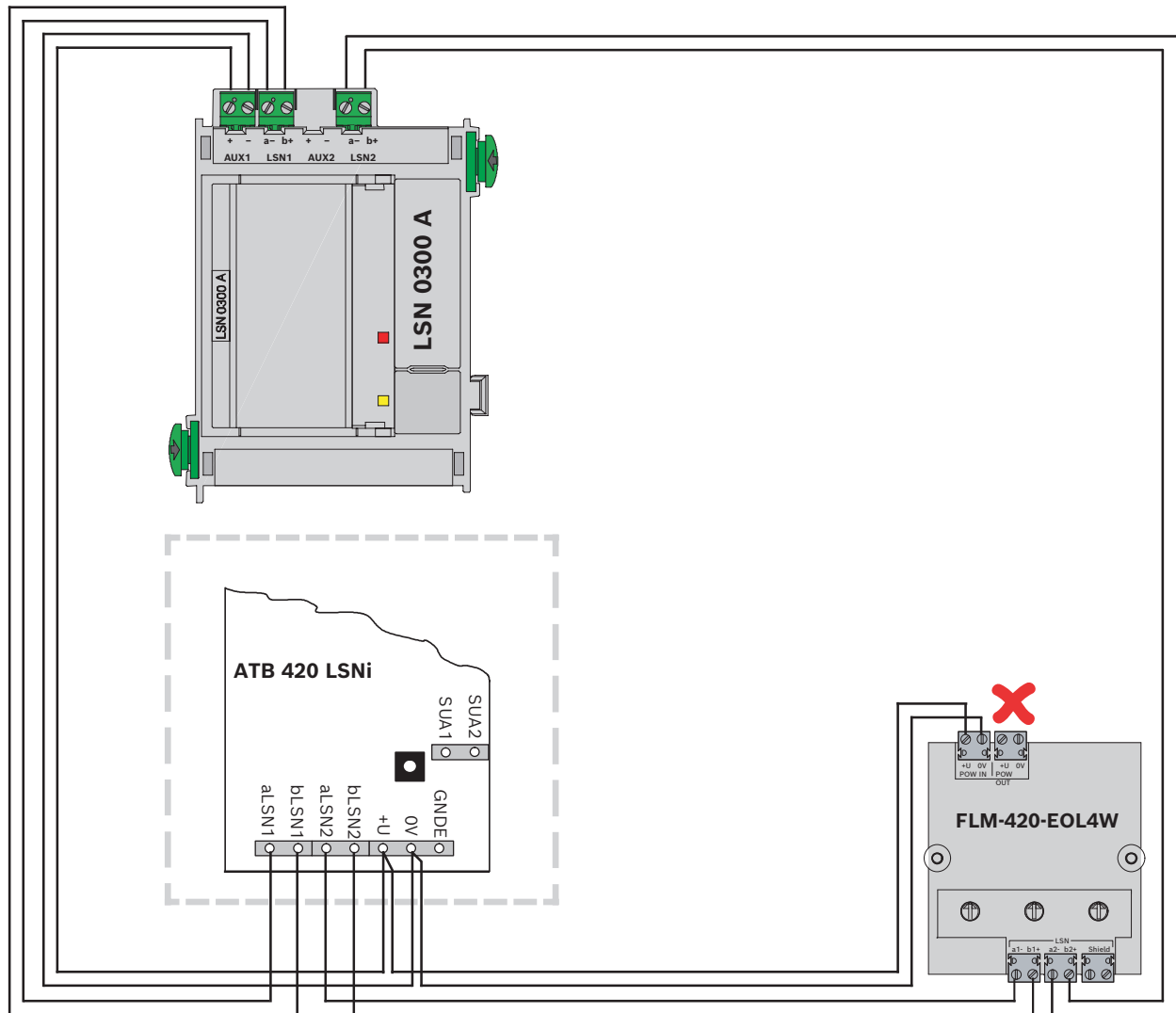


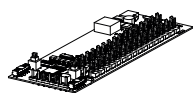


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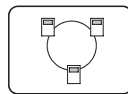


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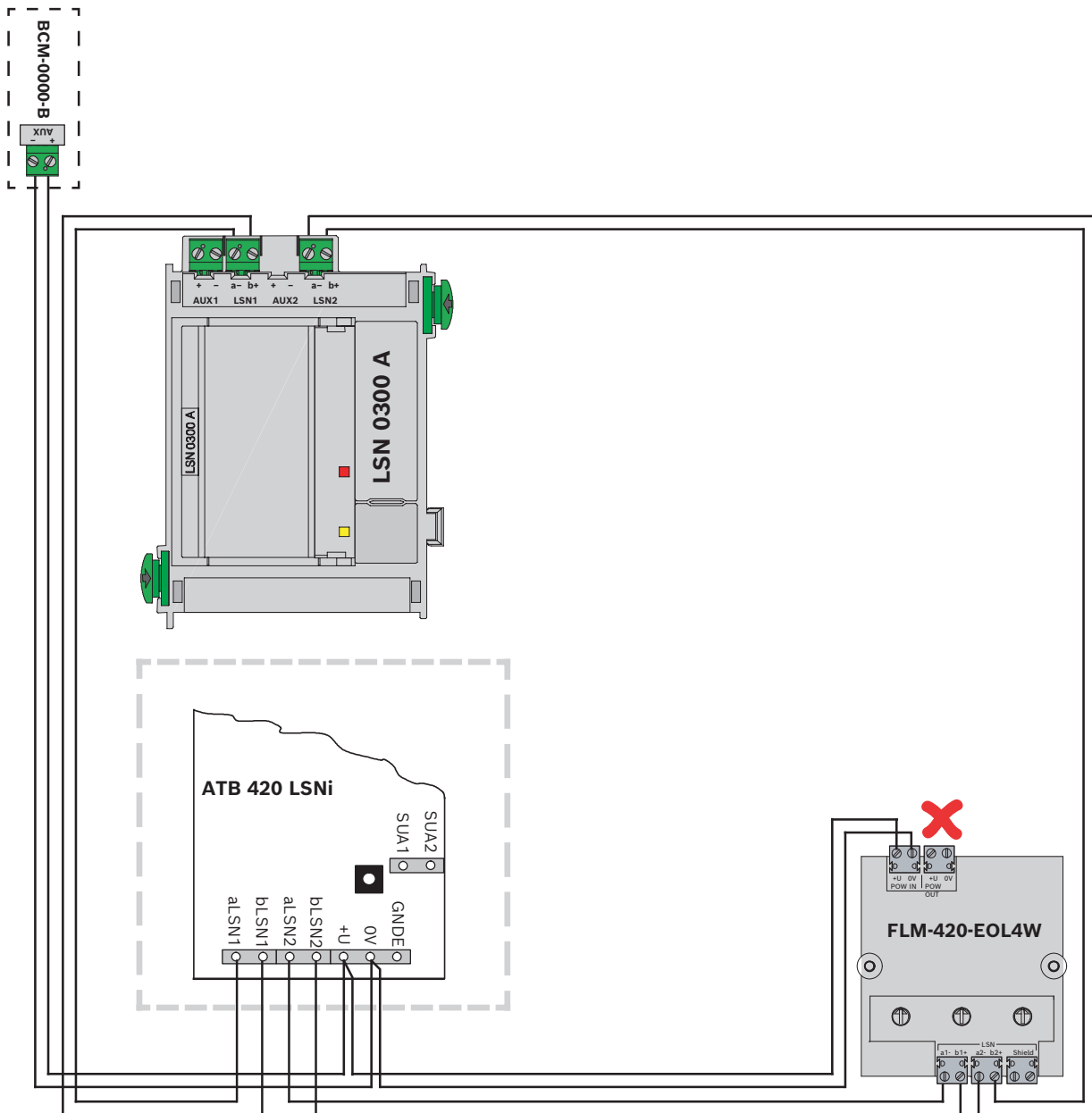




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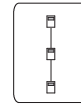


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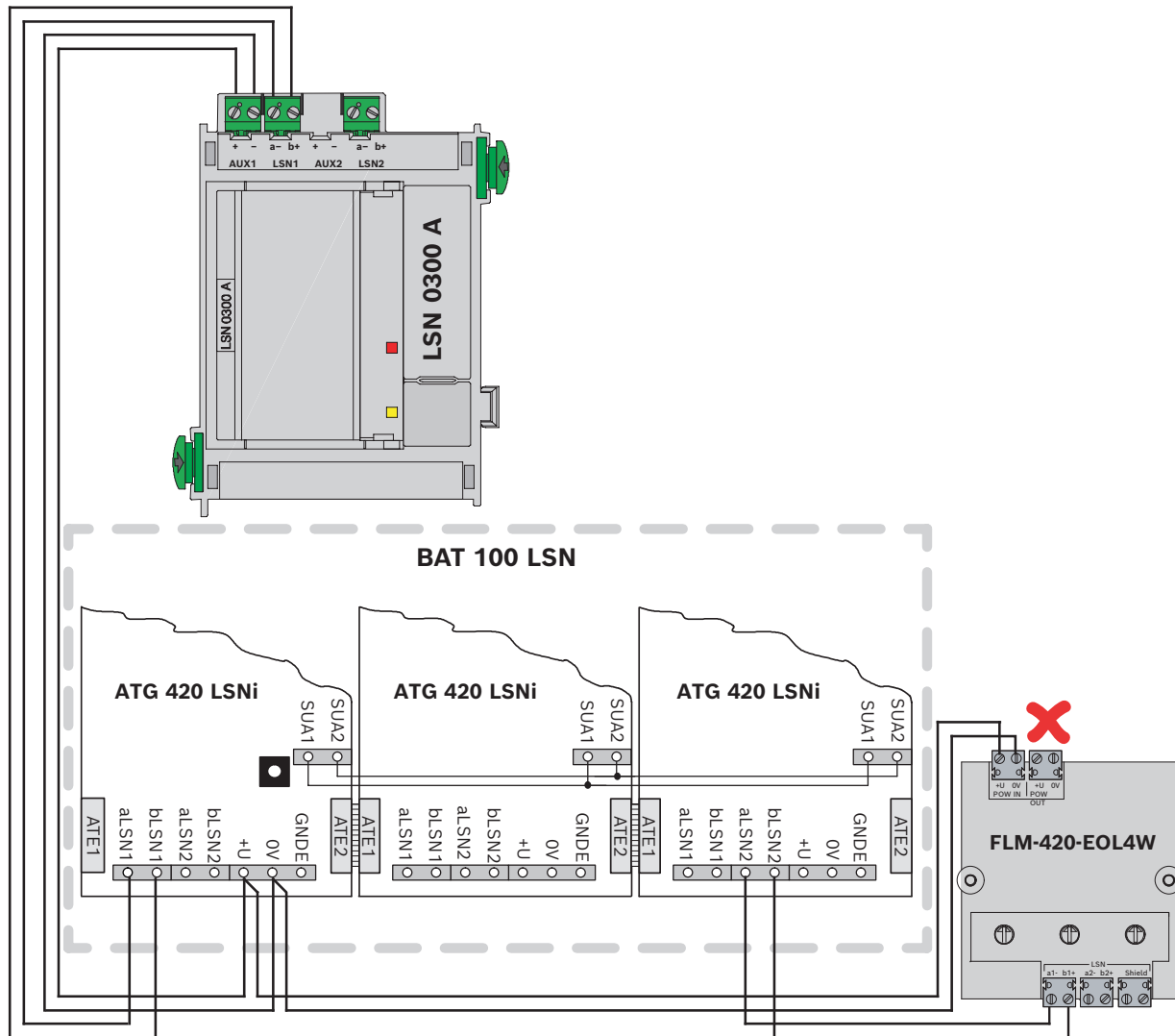




**BAT 100 LSN  
ATG 420 LSNi**

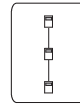


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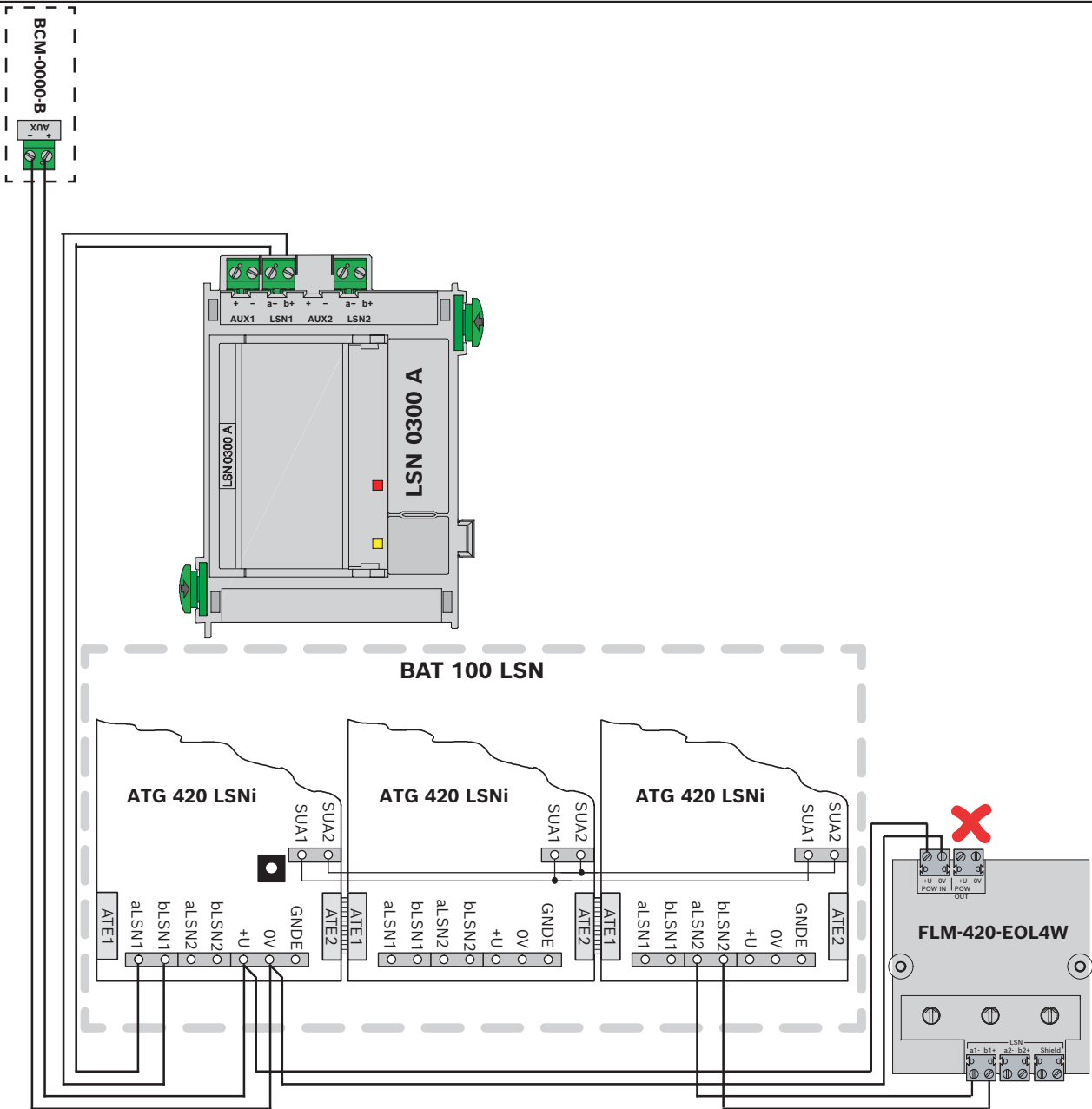




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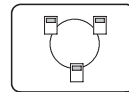


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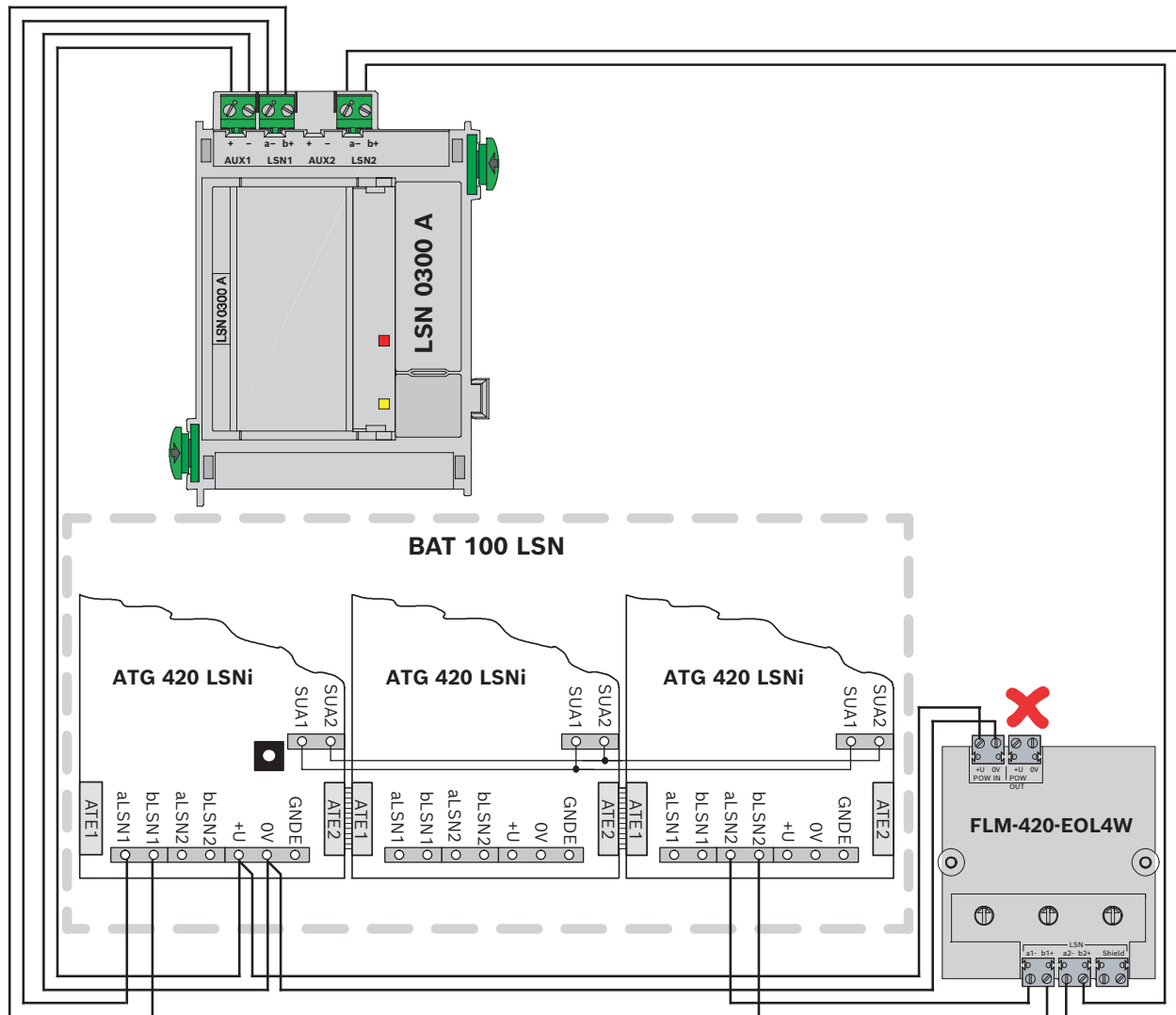




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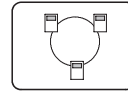


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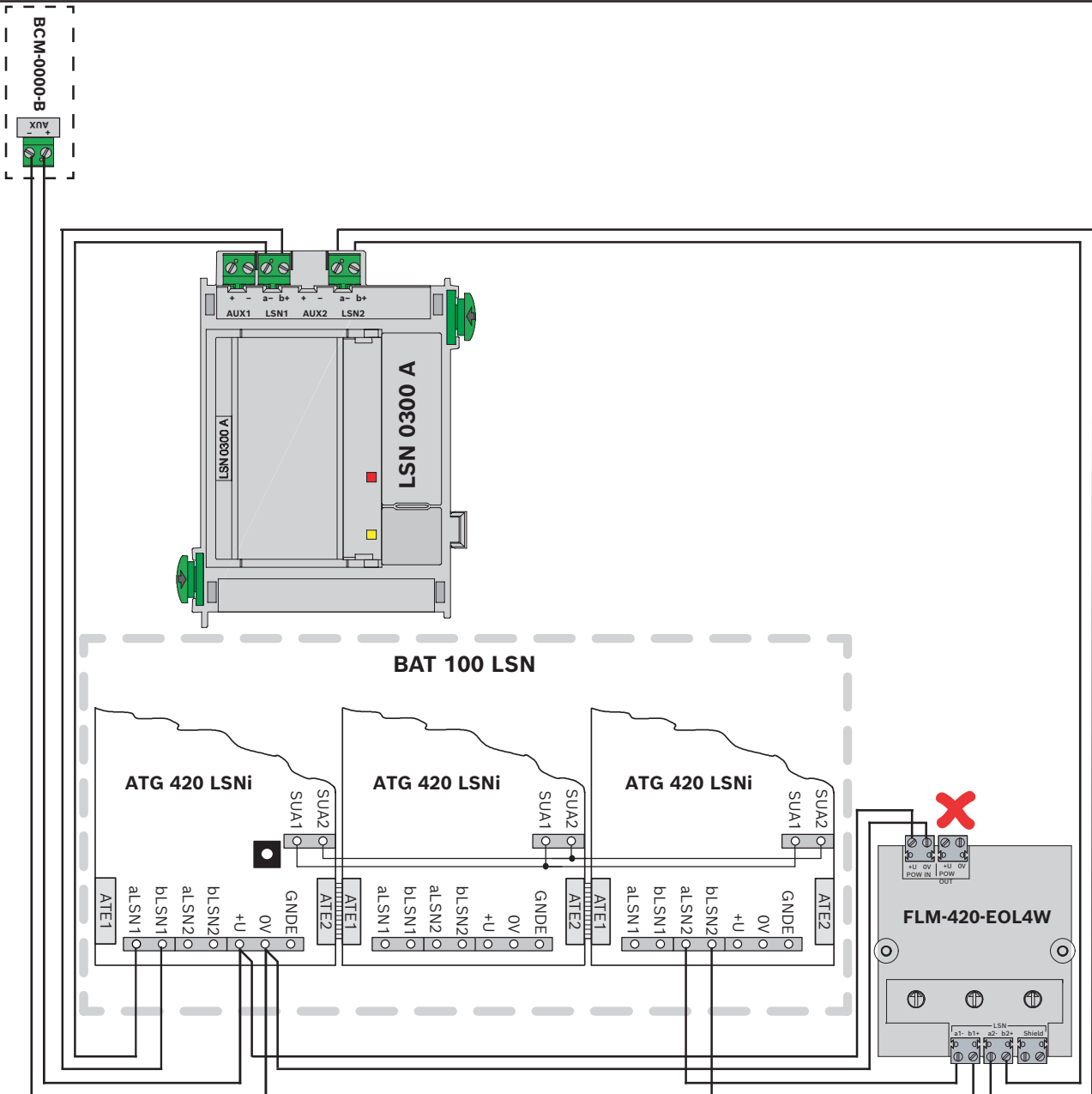




BAT 100 LSN  
ATG 420 LSNi



ELS



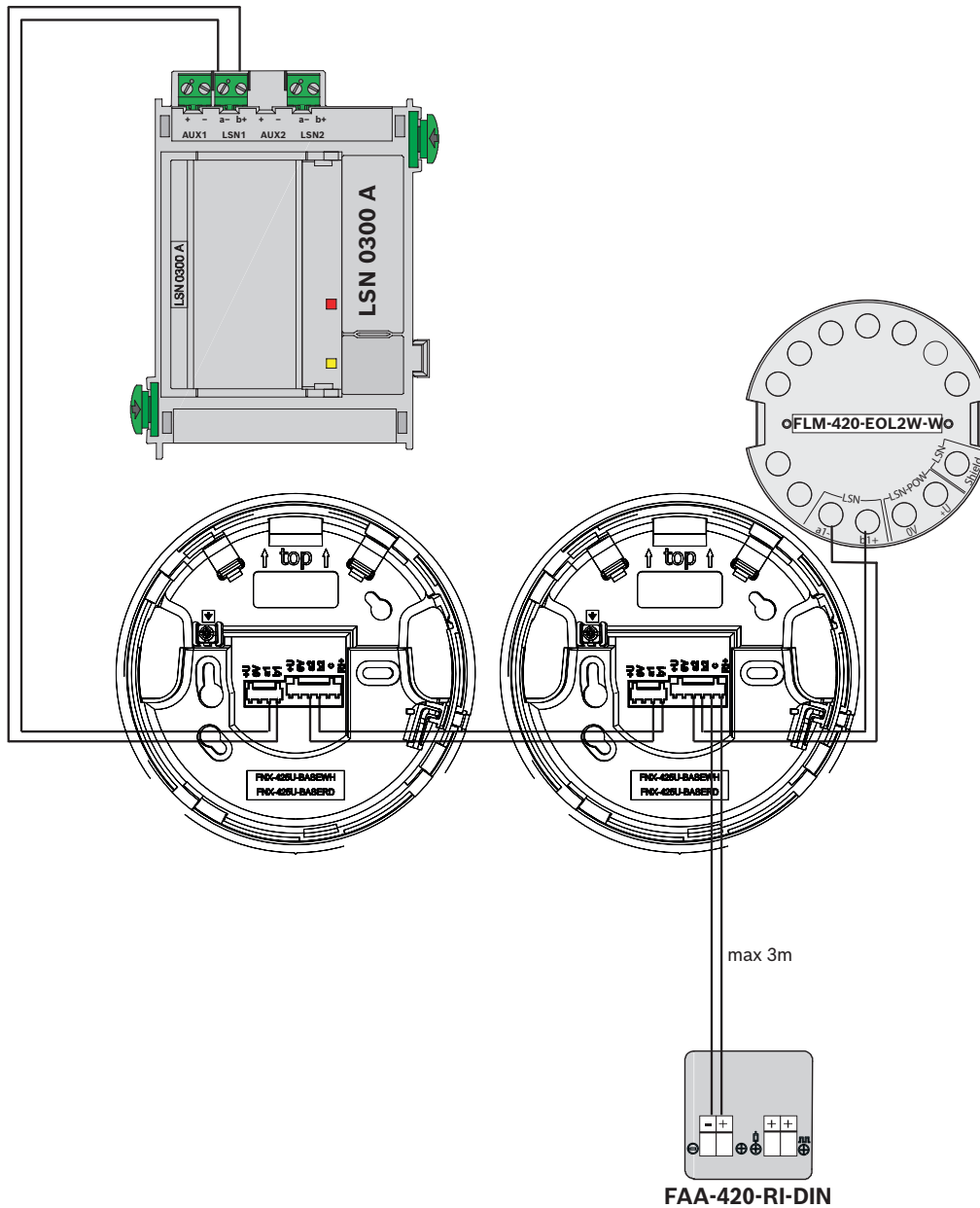




**FNX-425U-WFWH**  
**FNX-425U-RFWH**  
**FNX-425U-WFRD**  
**FNX-425U-RFRD**



**ELS**





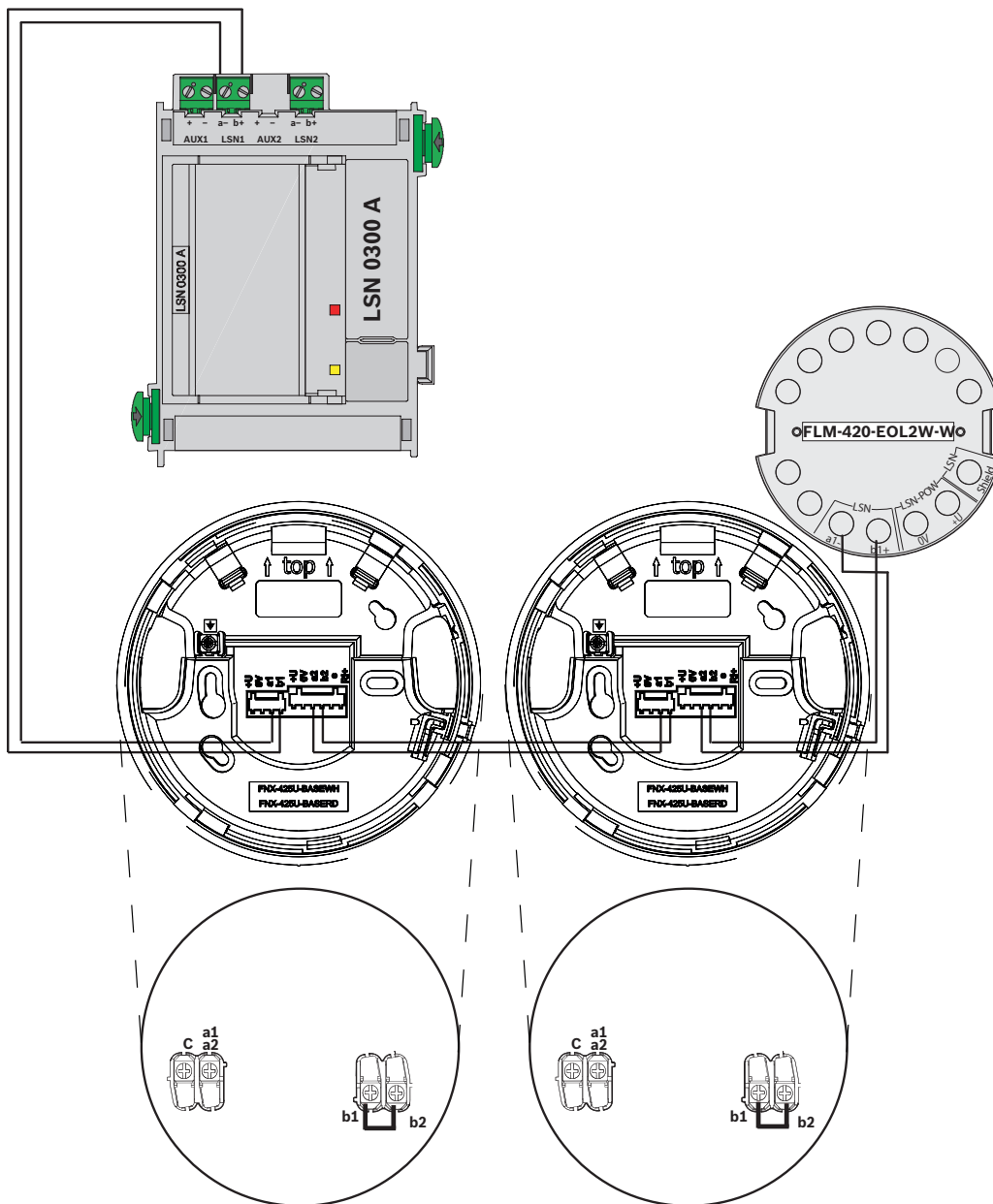
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 FNX-425U-RFWH  
 FNX-425U-WFRD  
 FNX-425U-RFRD

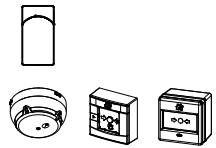
+

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



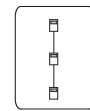
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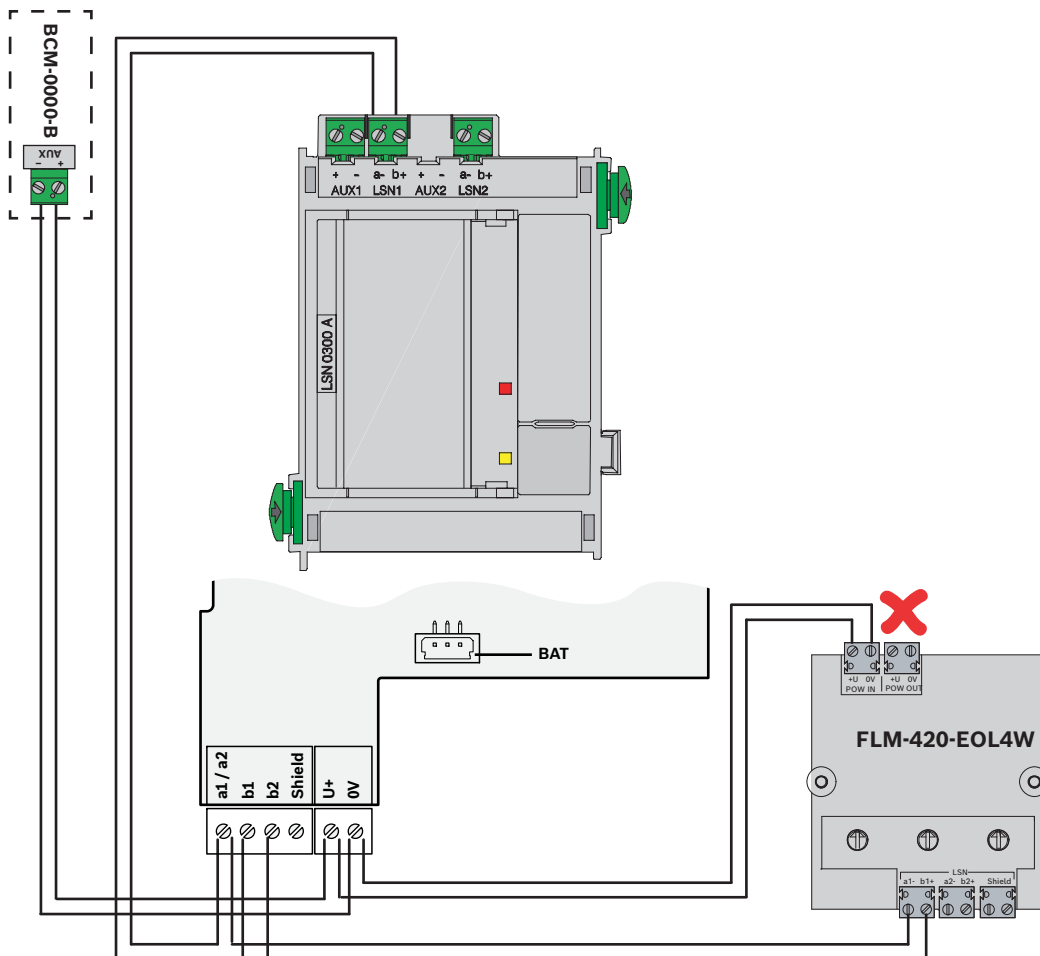


**FWI-270**

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



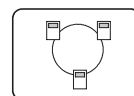
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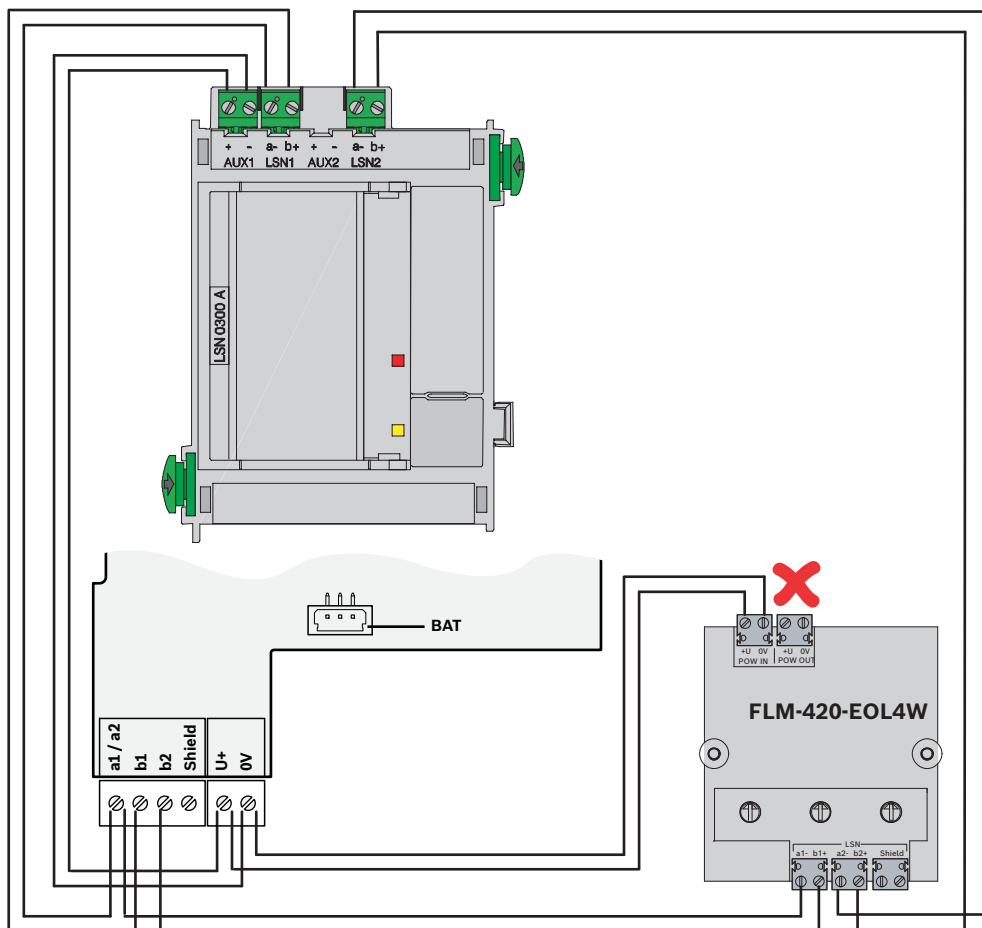


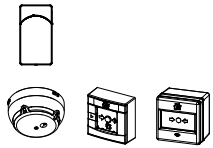
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**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**



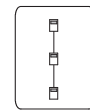
**ELS**



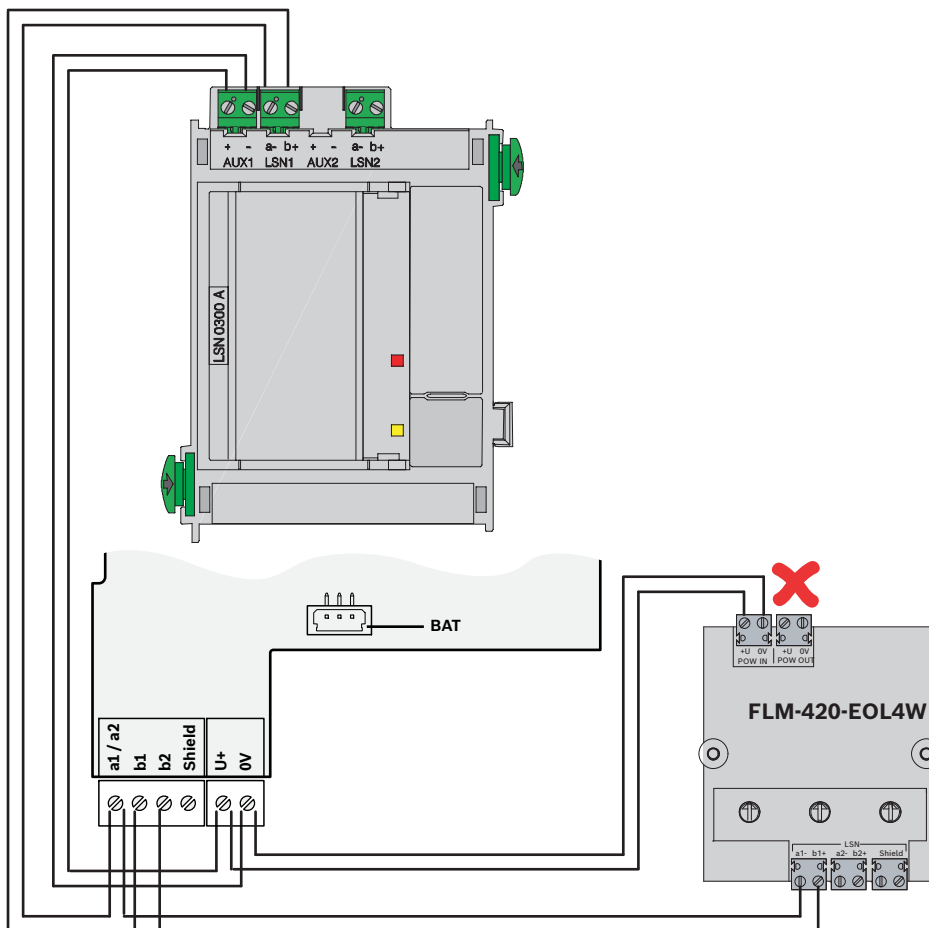


**FWI-270**

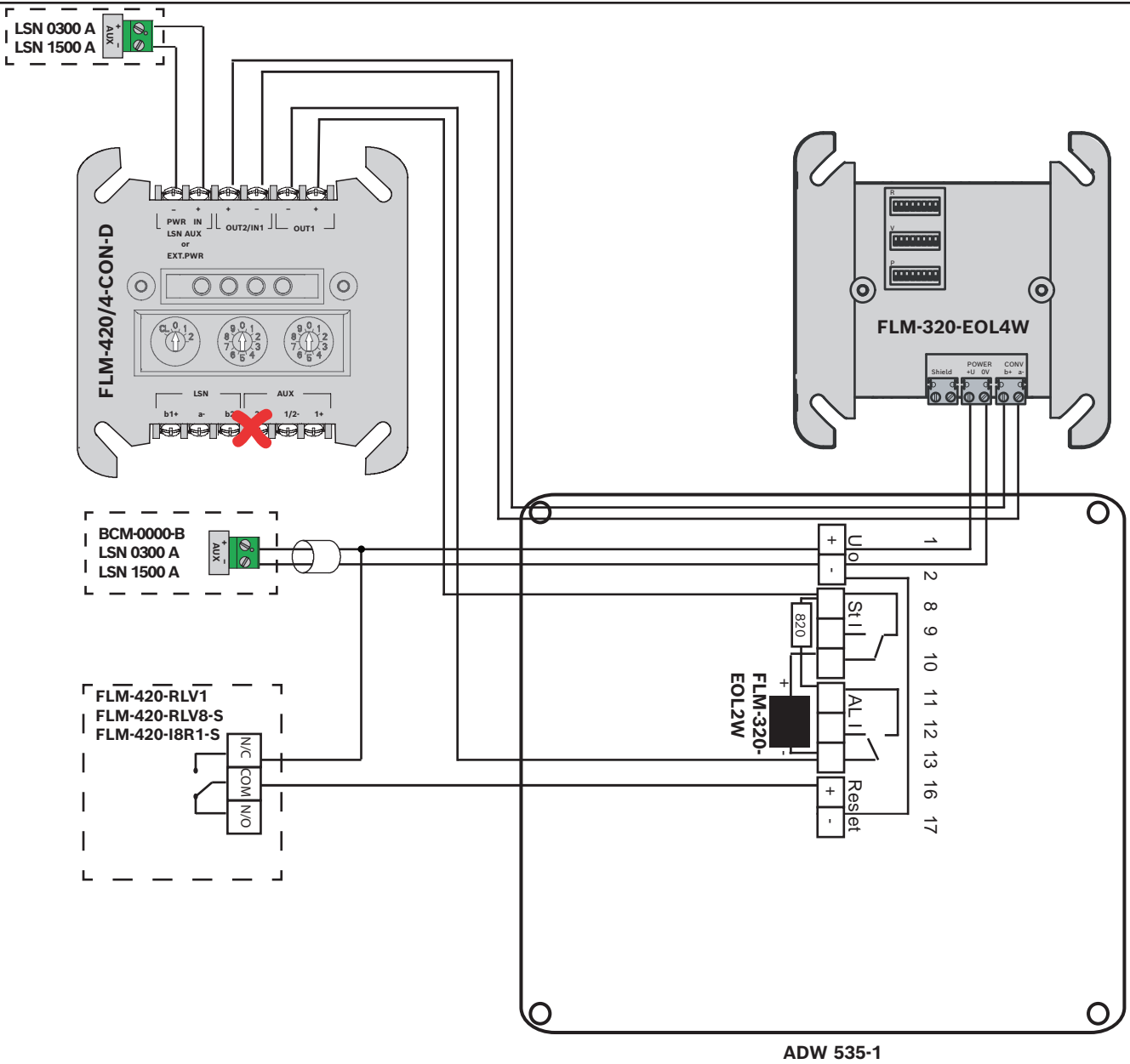
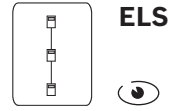
**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**

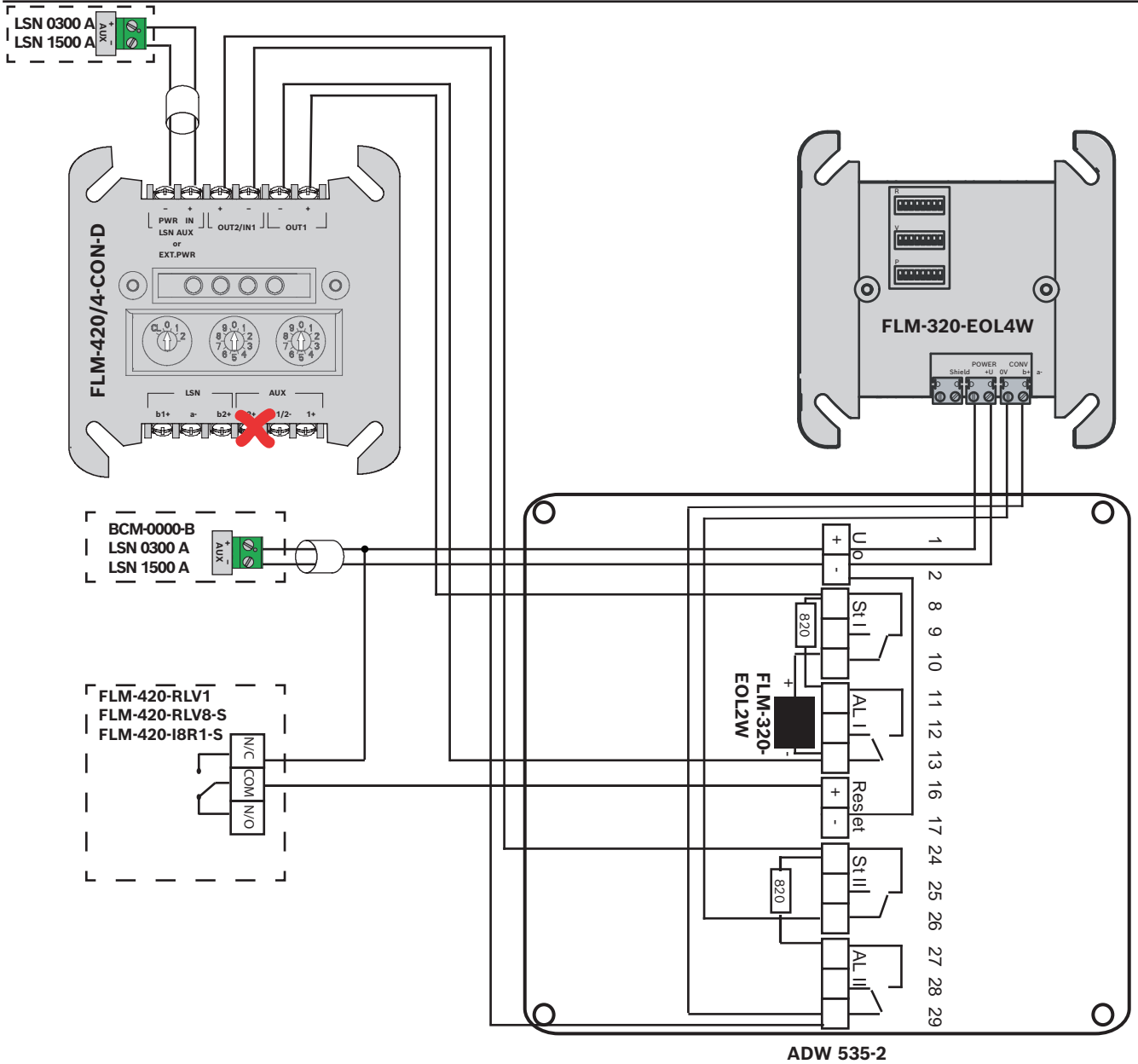
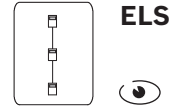


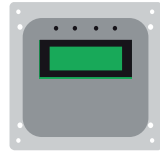
**ELS**



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



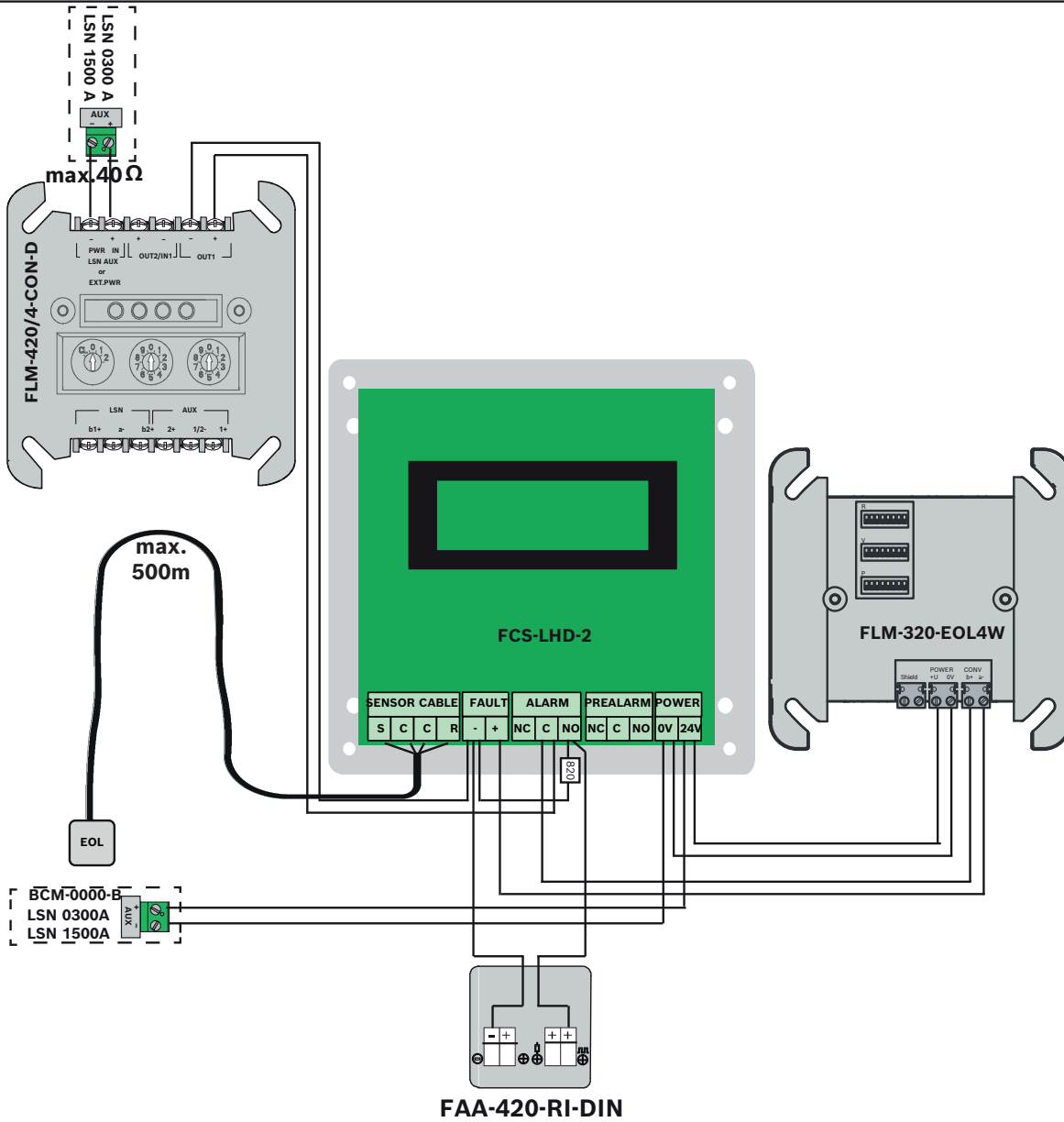




ALARMLINE II



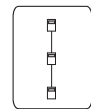
ELS



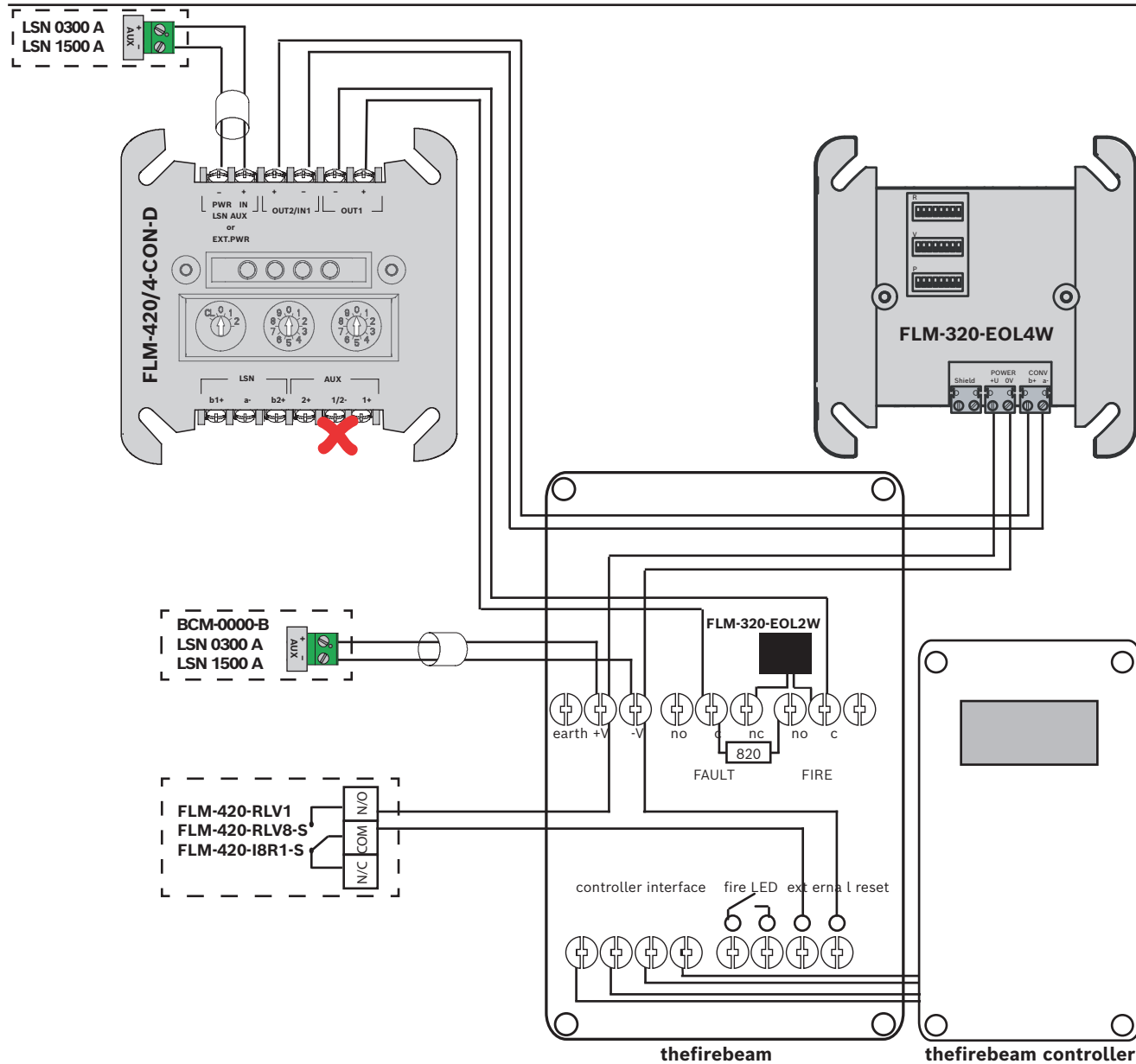


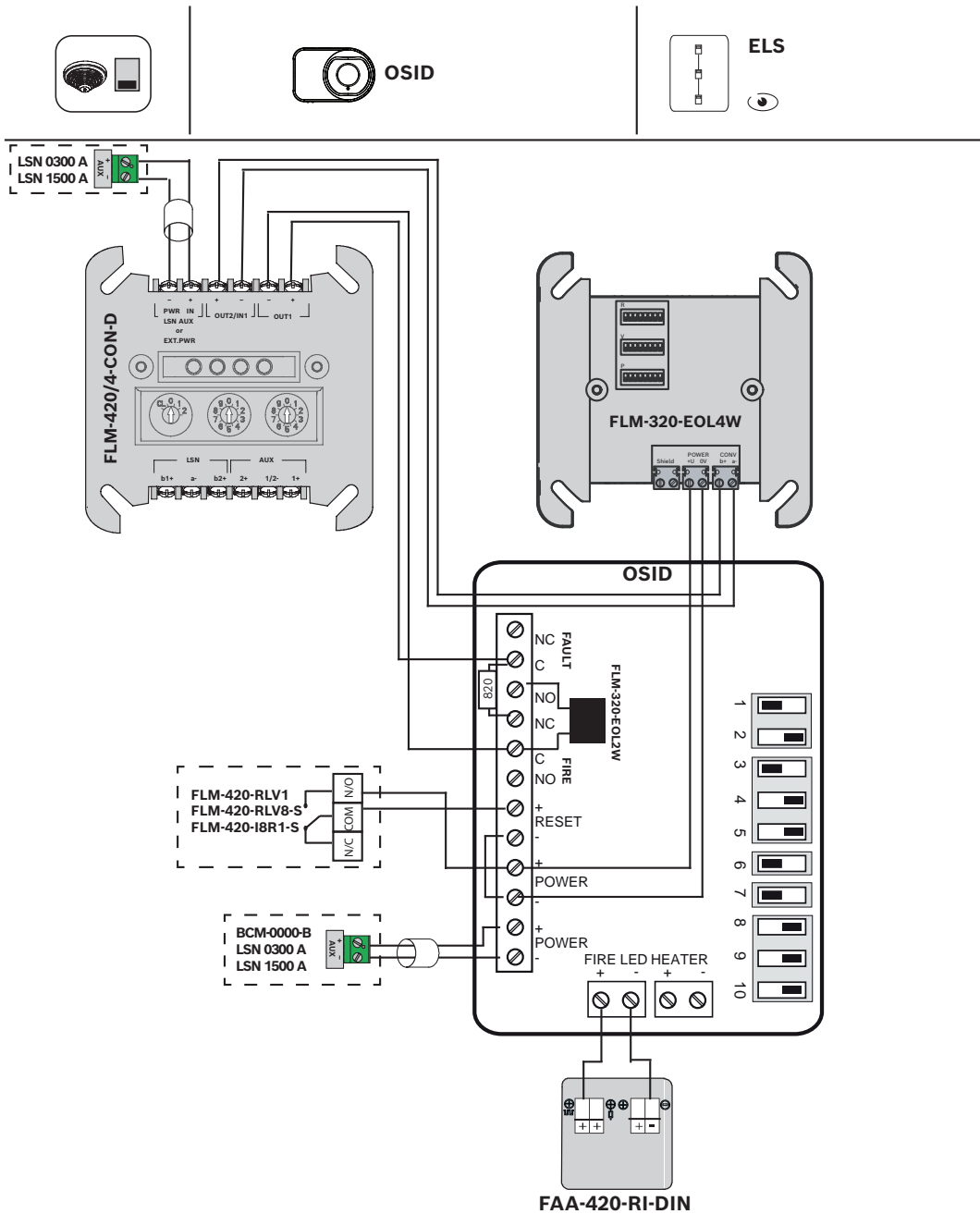


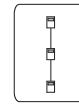
thefirebeam nano  
thefirebeam standard  
thefirebeam foveo



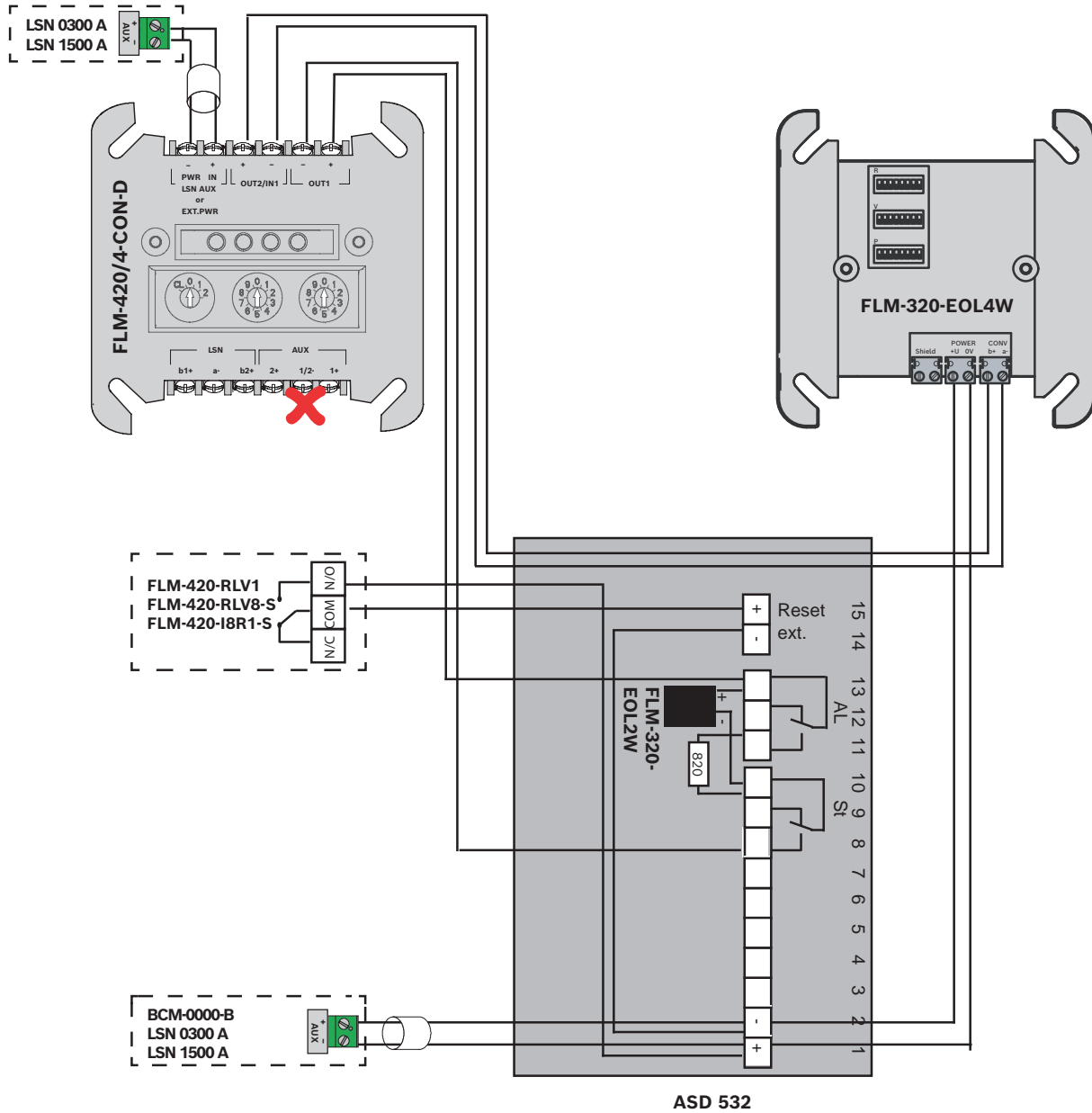
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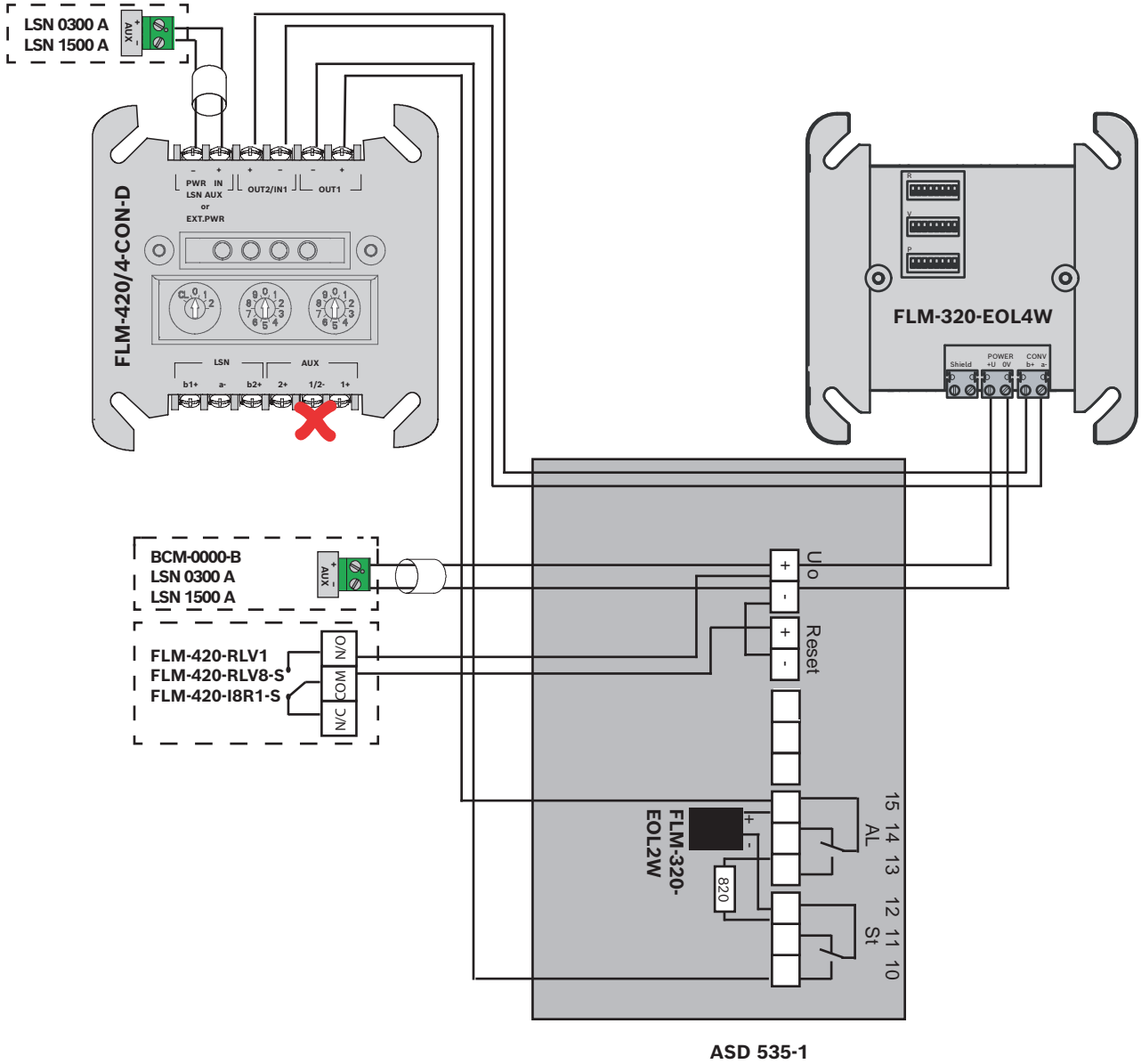
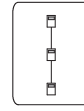


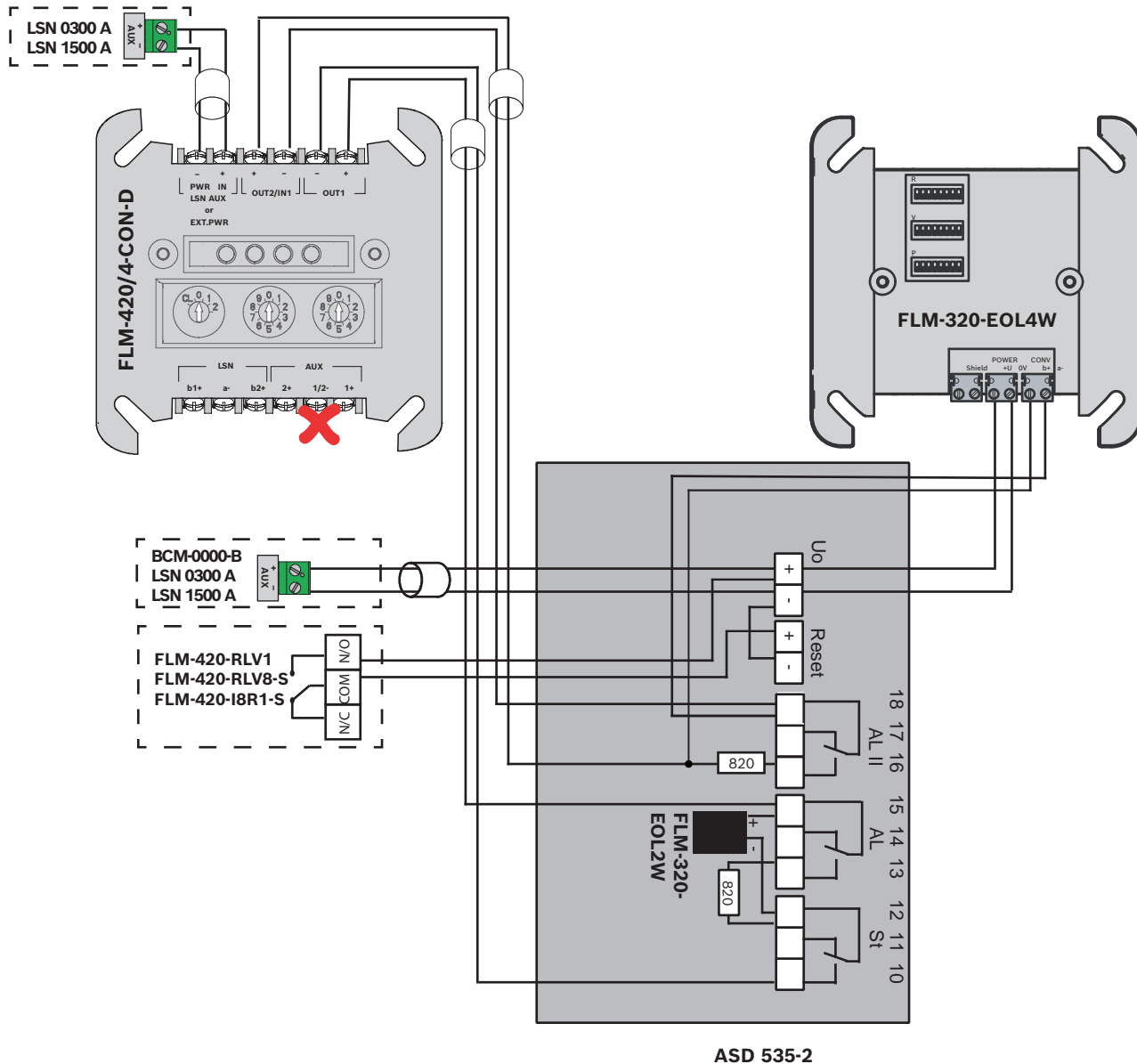
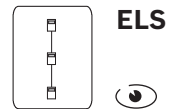




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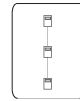






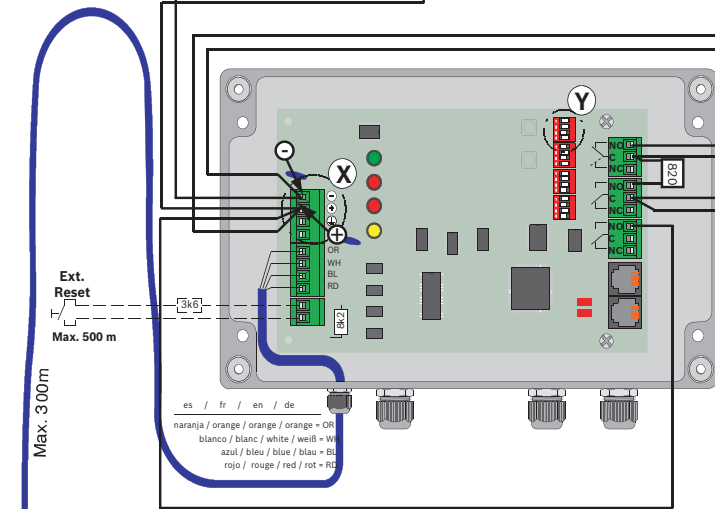
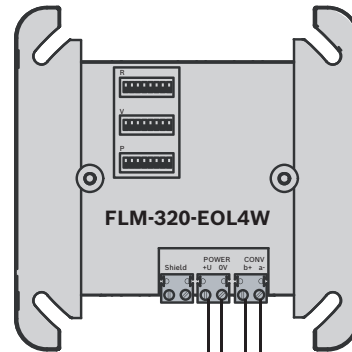
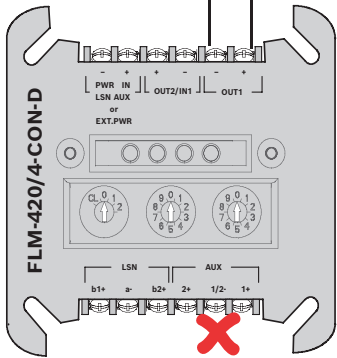


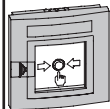
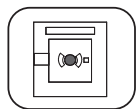
FCS-LWM-1



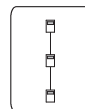
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LSN 1500 A

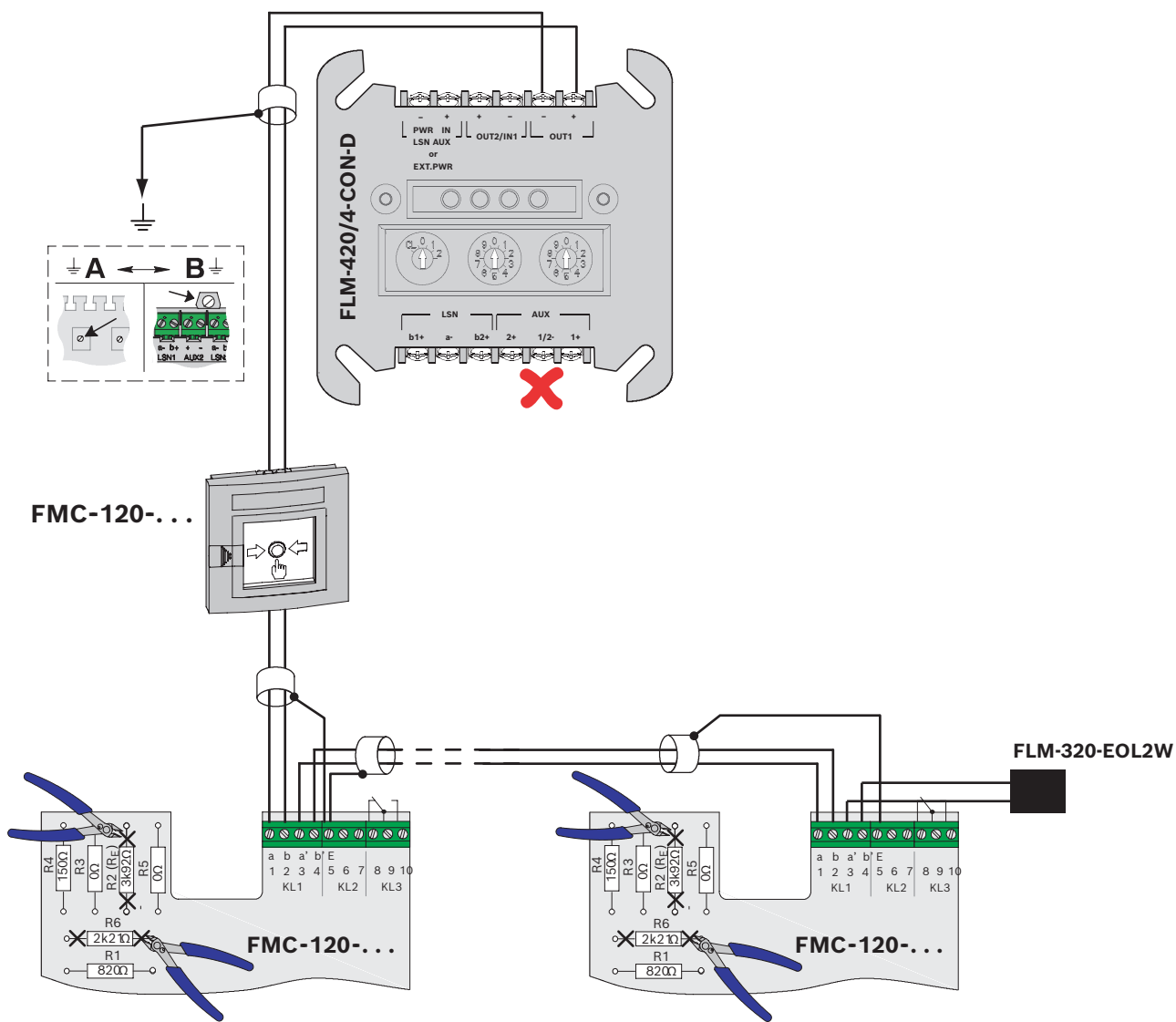


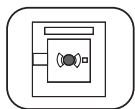


FMC-120-DKM-G-R FMC-120-DKM-G-Y  
 FMC-120-DKM-H-R FMC-120-EST-G-B  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B

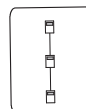


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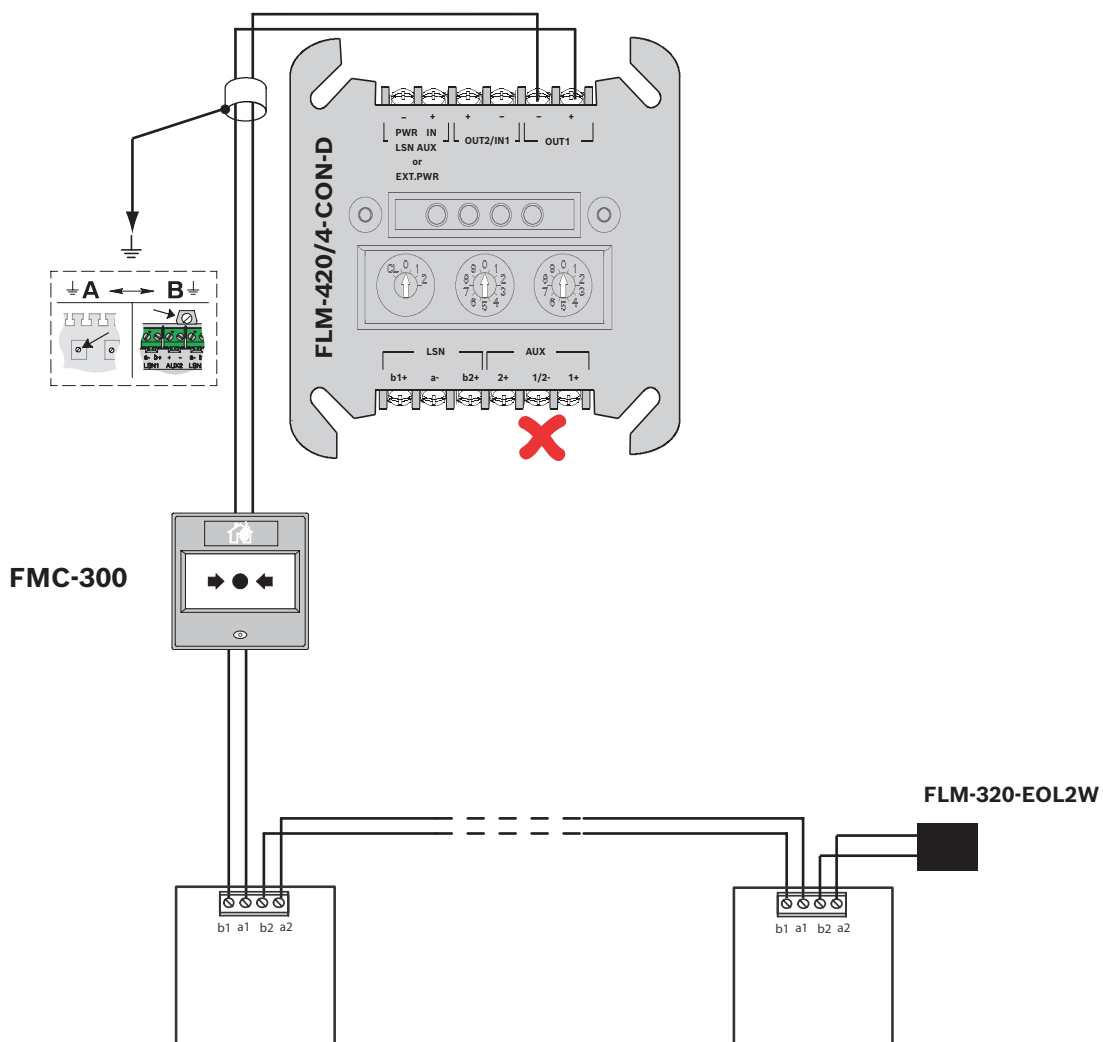




FMC-300



ELS





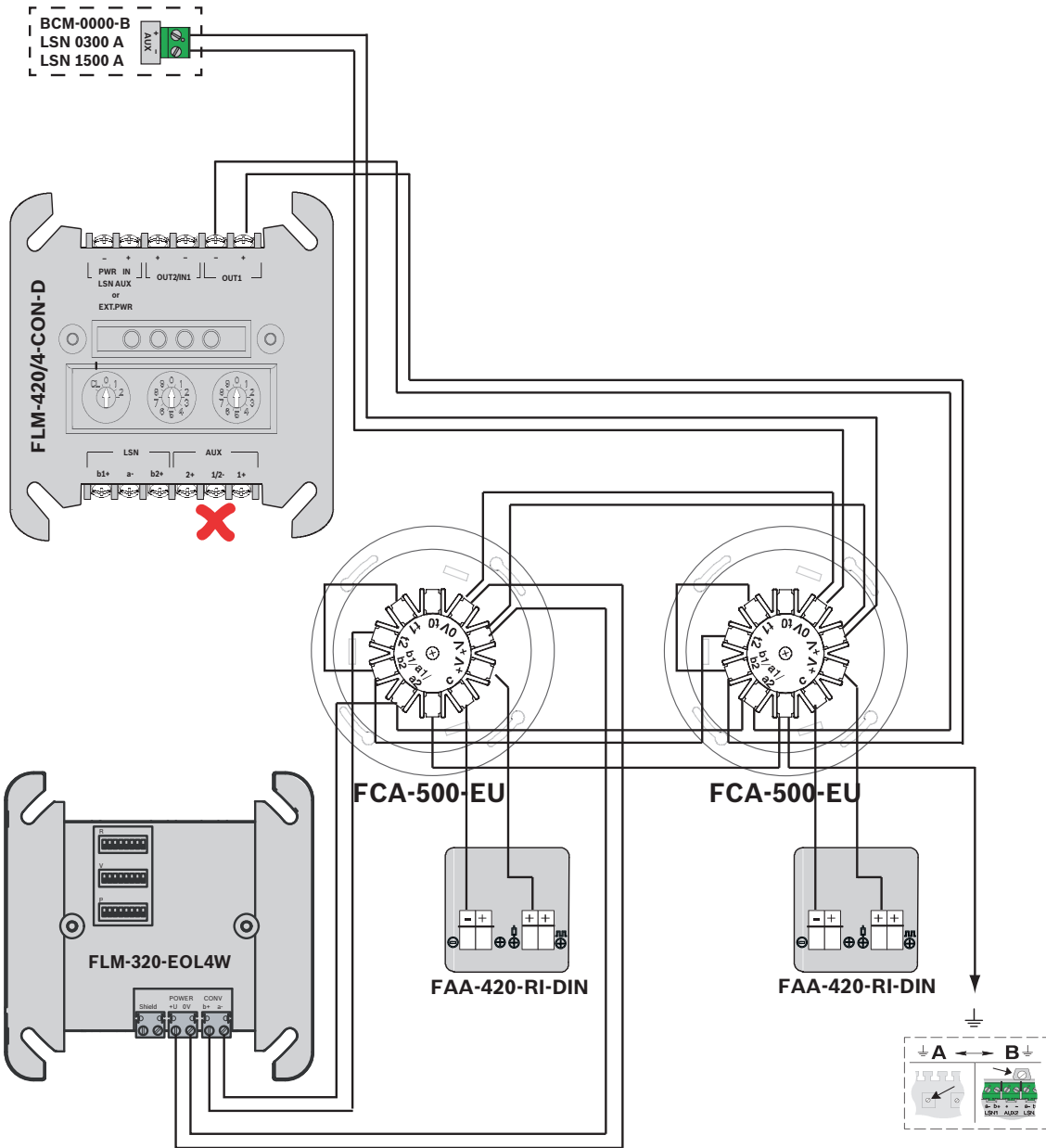


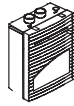


FCP-500

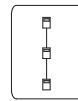


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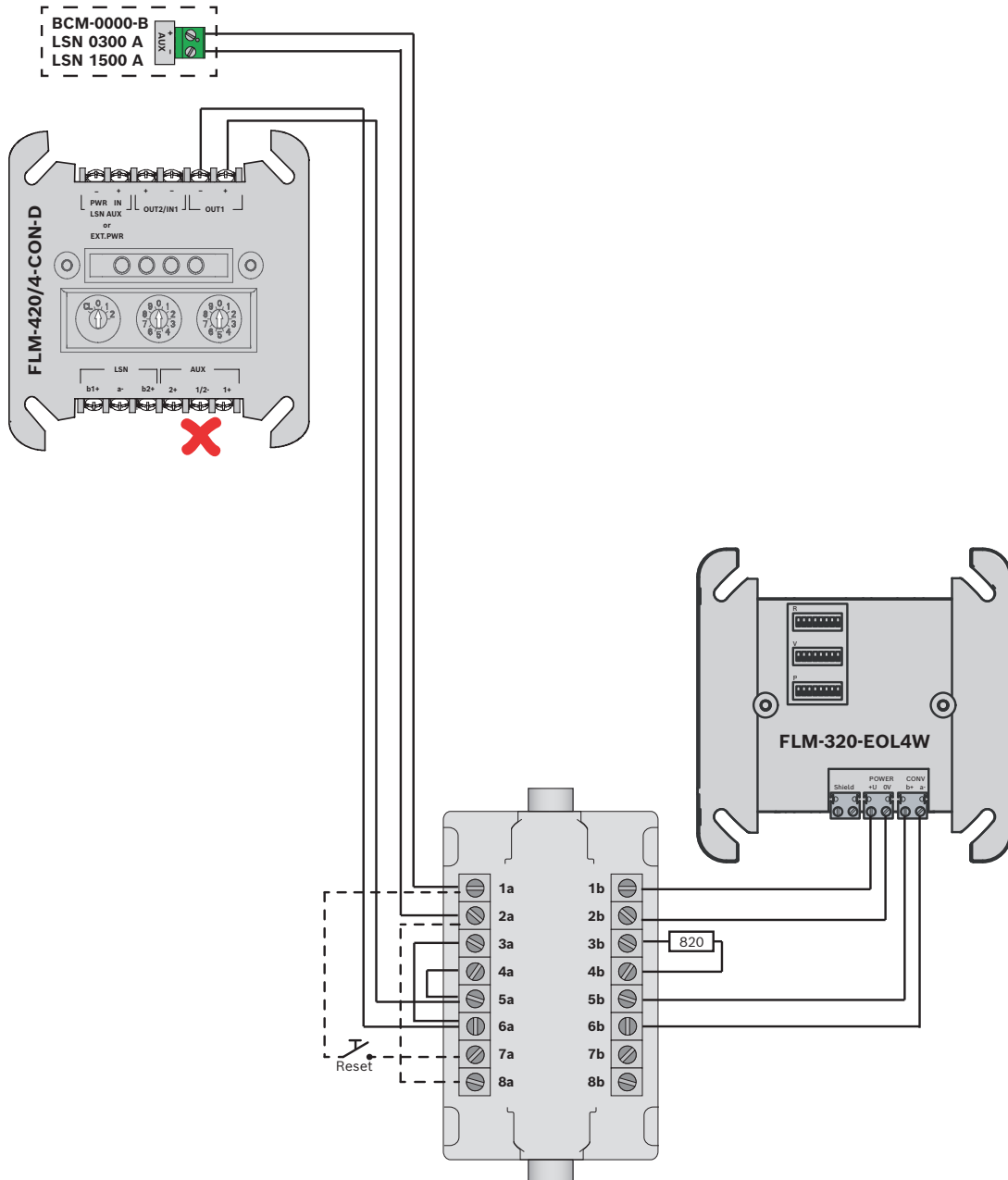


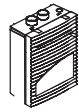


FCS-320-TM Series

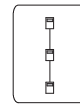


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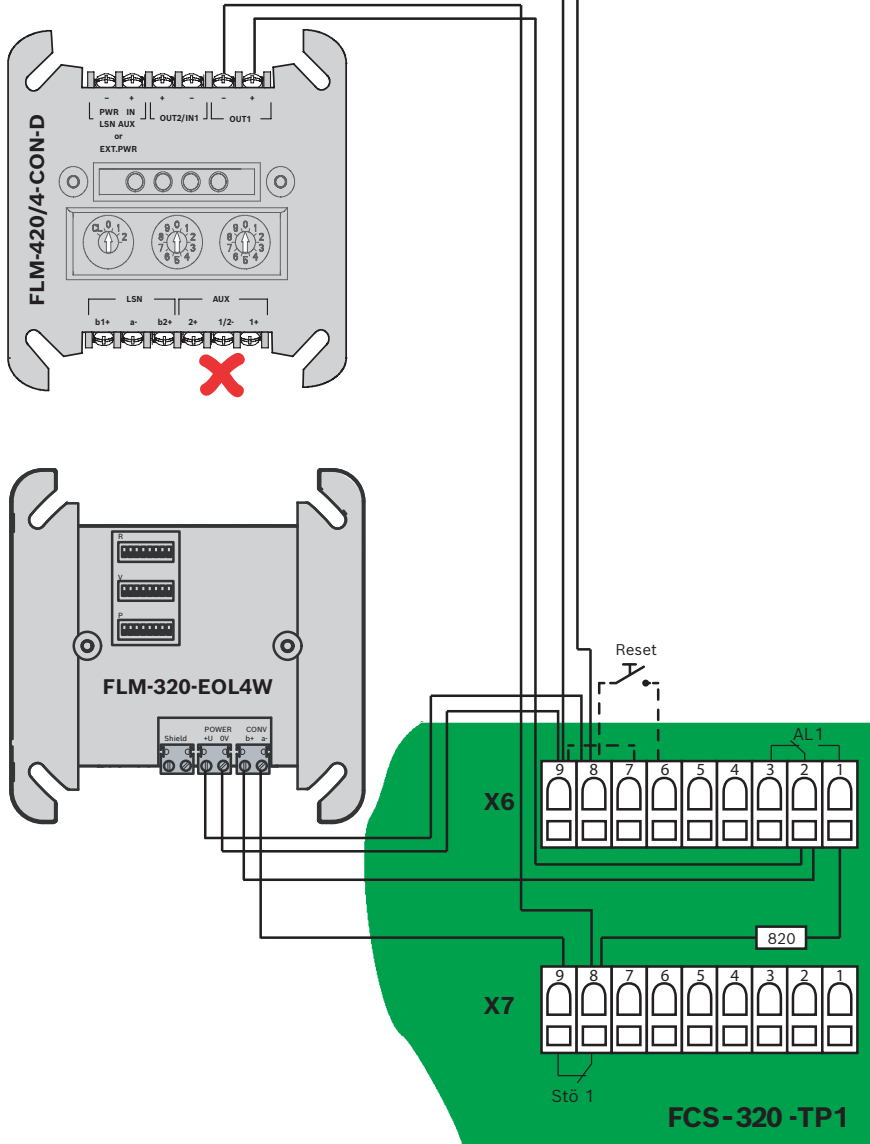


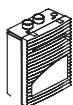
FCS-320-TP Series



ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



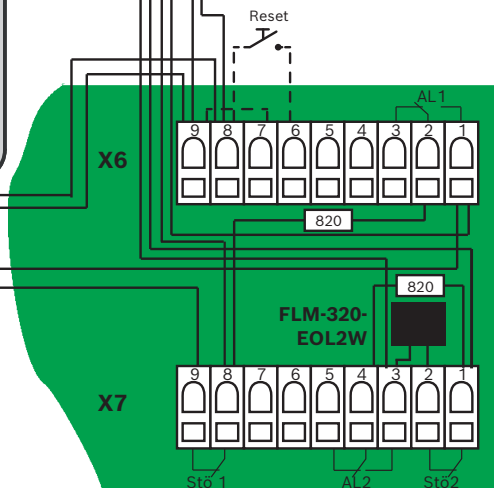
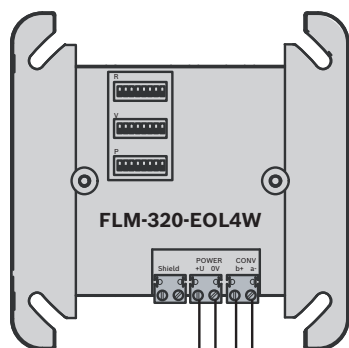
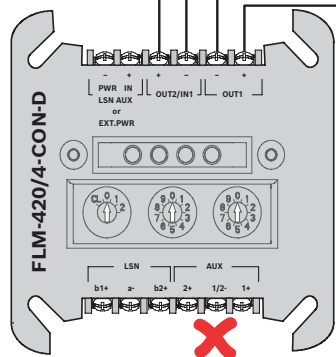


FCS-320-TP Series

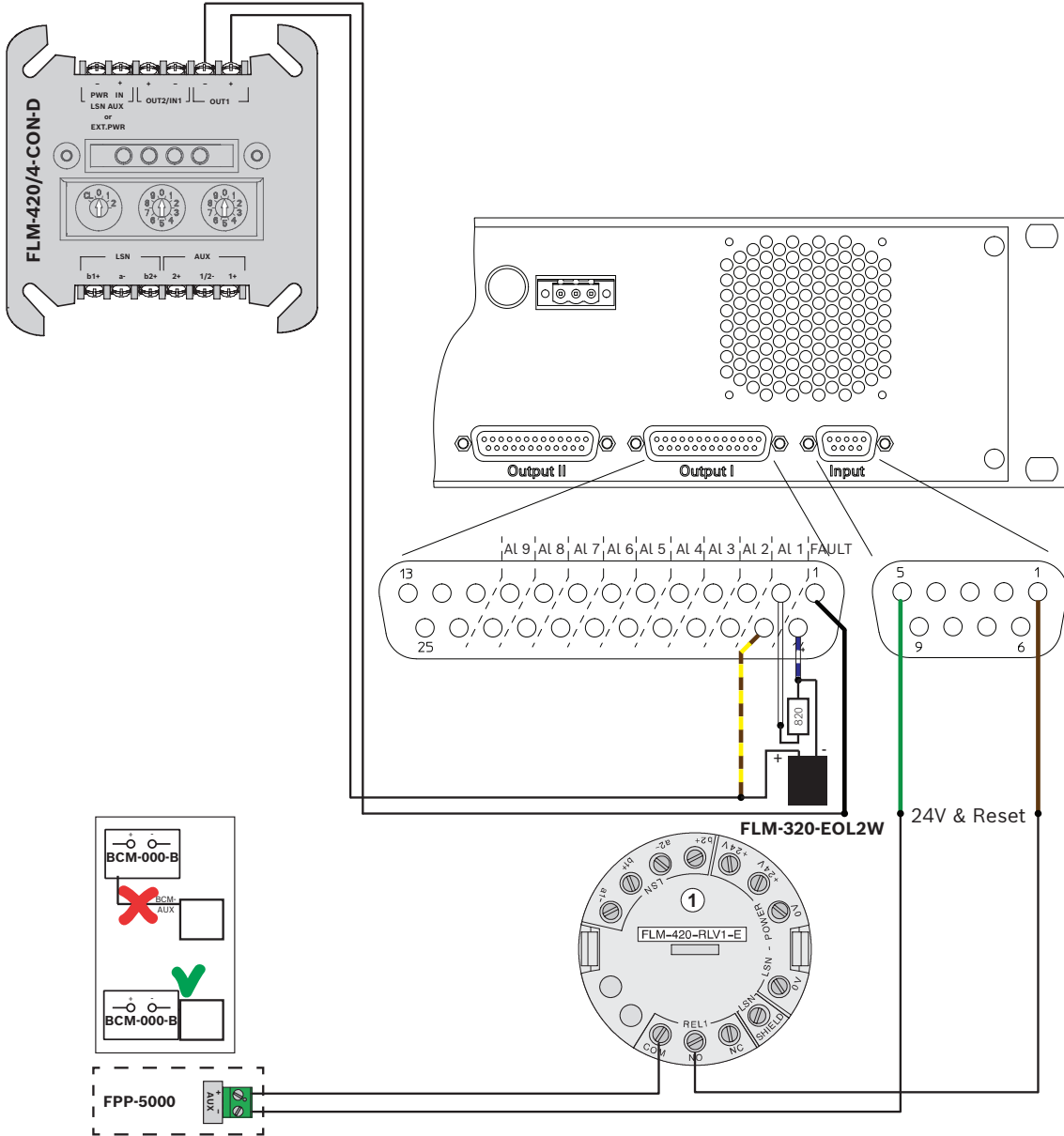
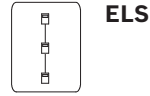


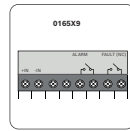
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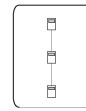


FCS-320-TP2

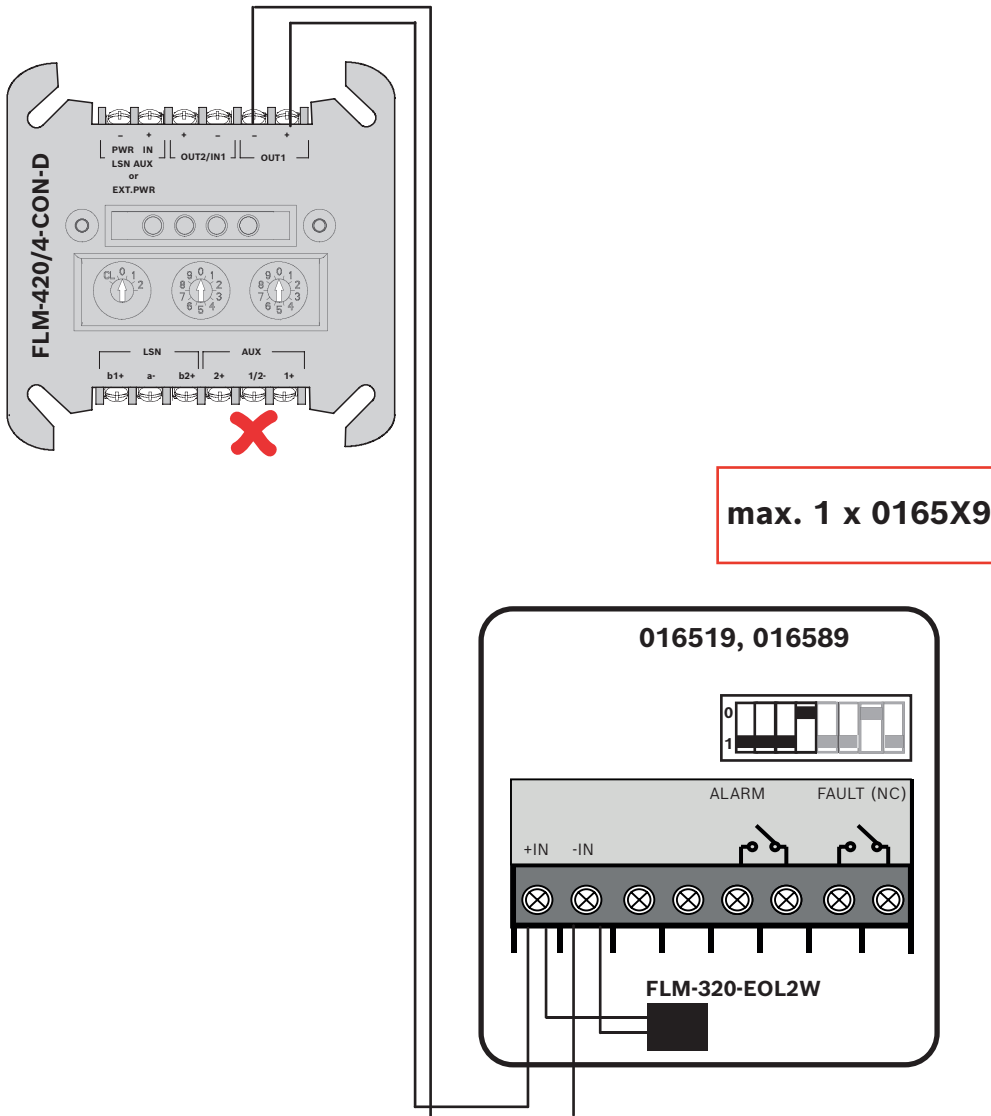


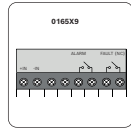


**016519, 016589**  
**IR3 Flame Detector**

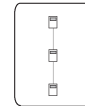


**ELS**

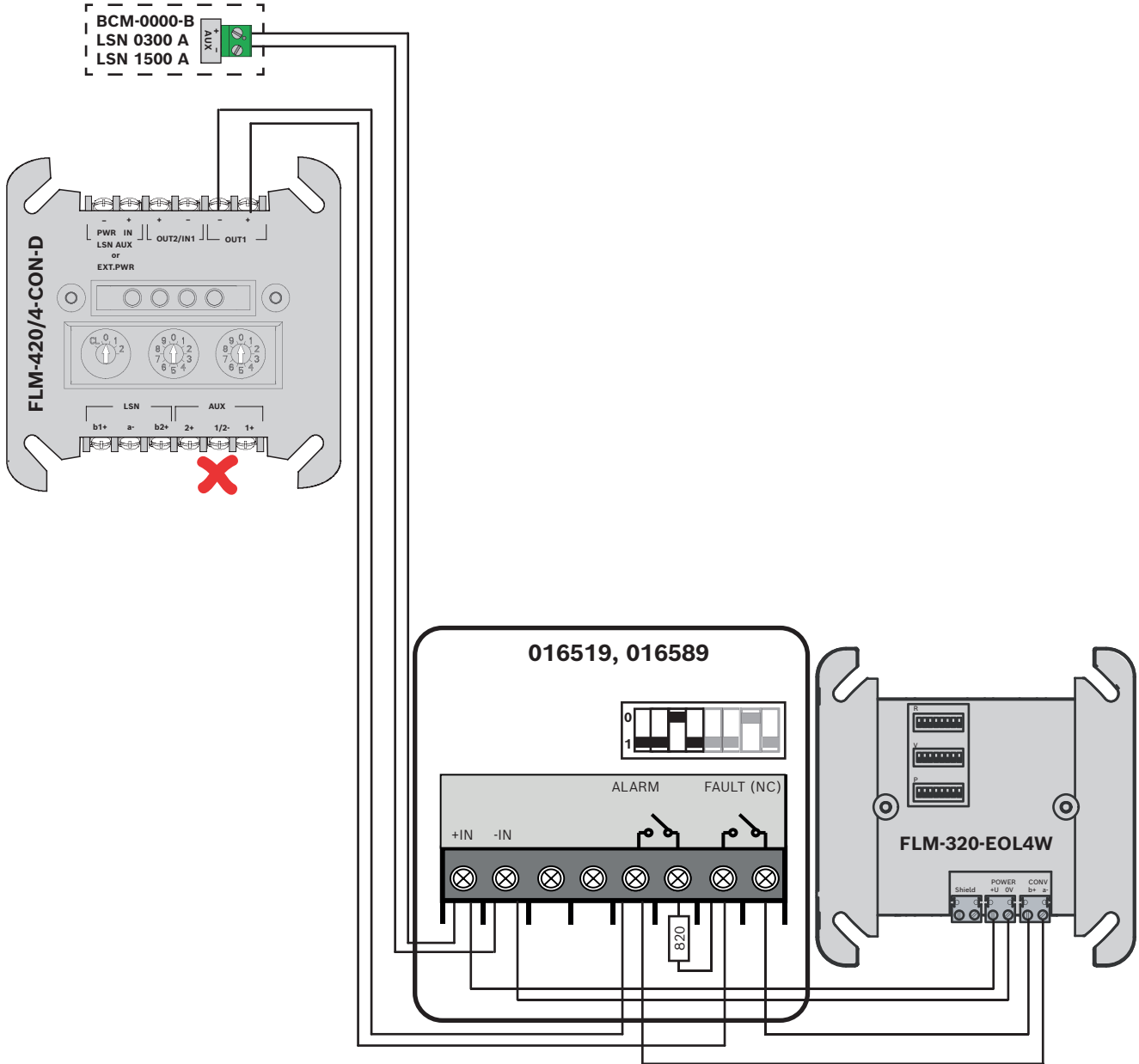




**016519, 016589**  
**IR3 Flame Detector**



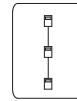
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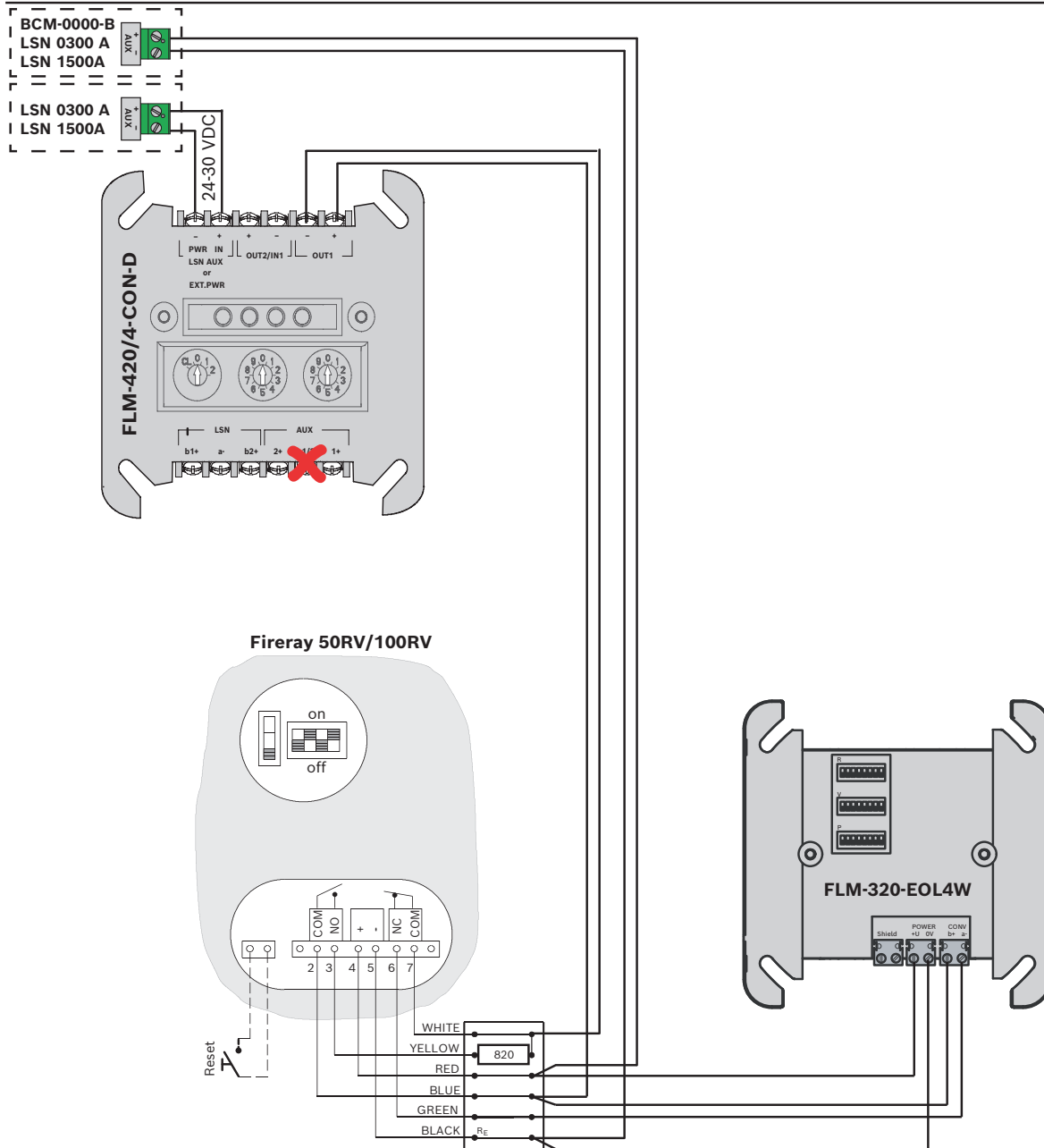


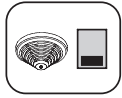


**Fireray 50RV  
Fireray 100RV**



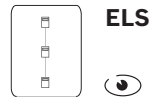
**ELS**



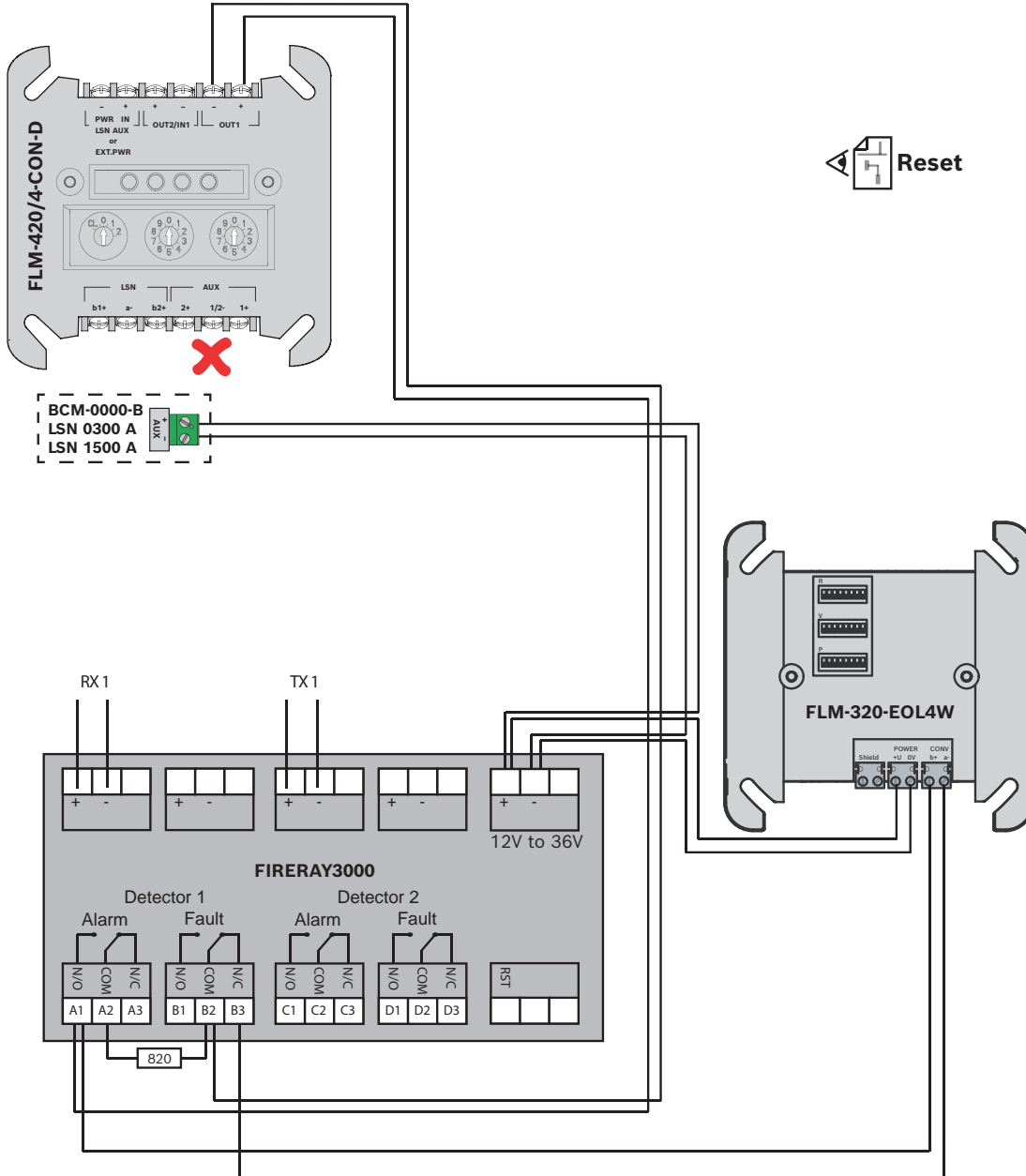


**FIRERAY3000**

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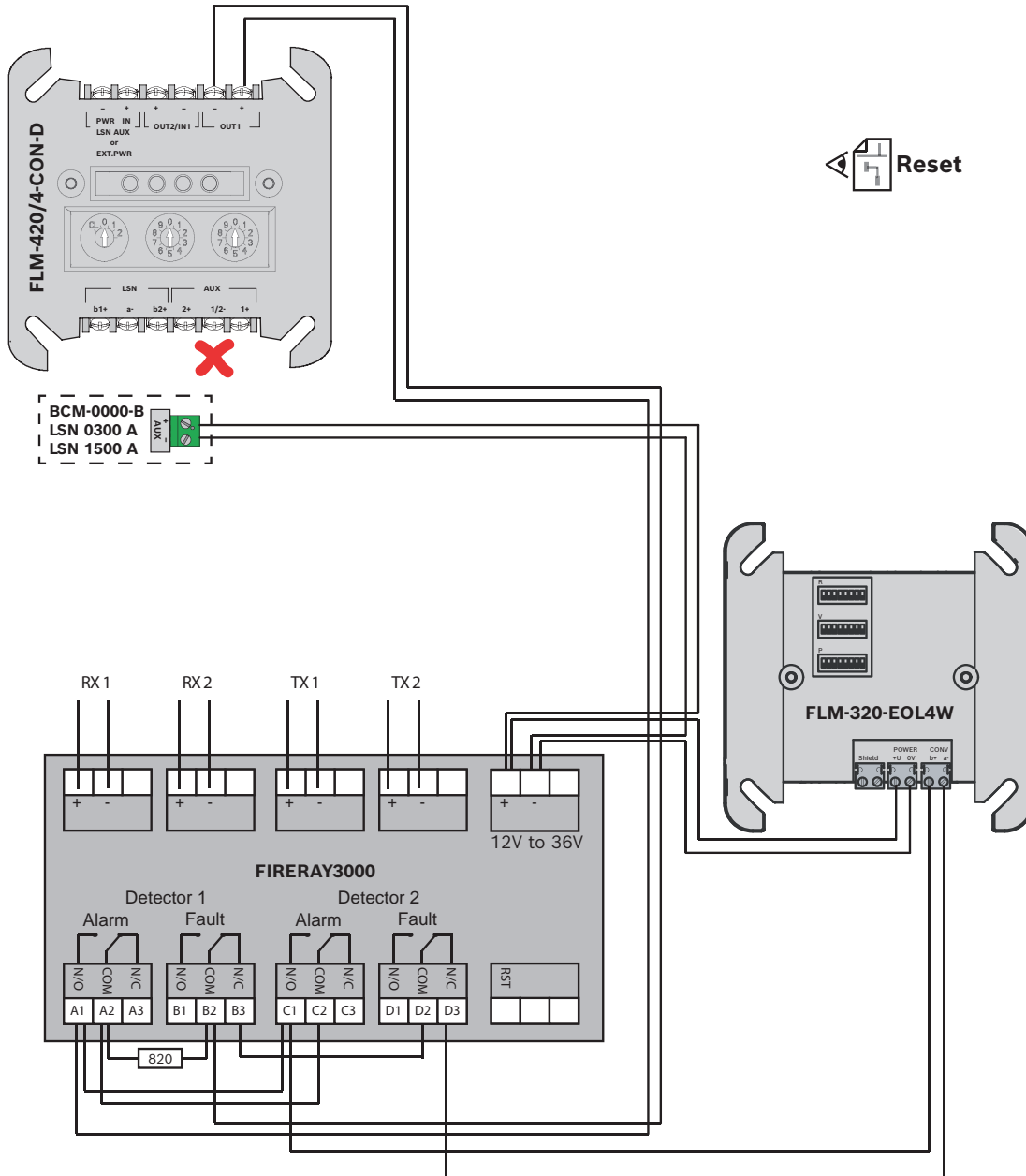
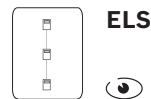


**ELS**





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

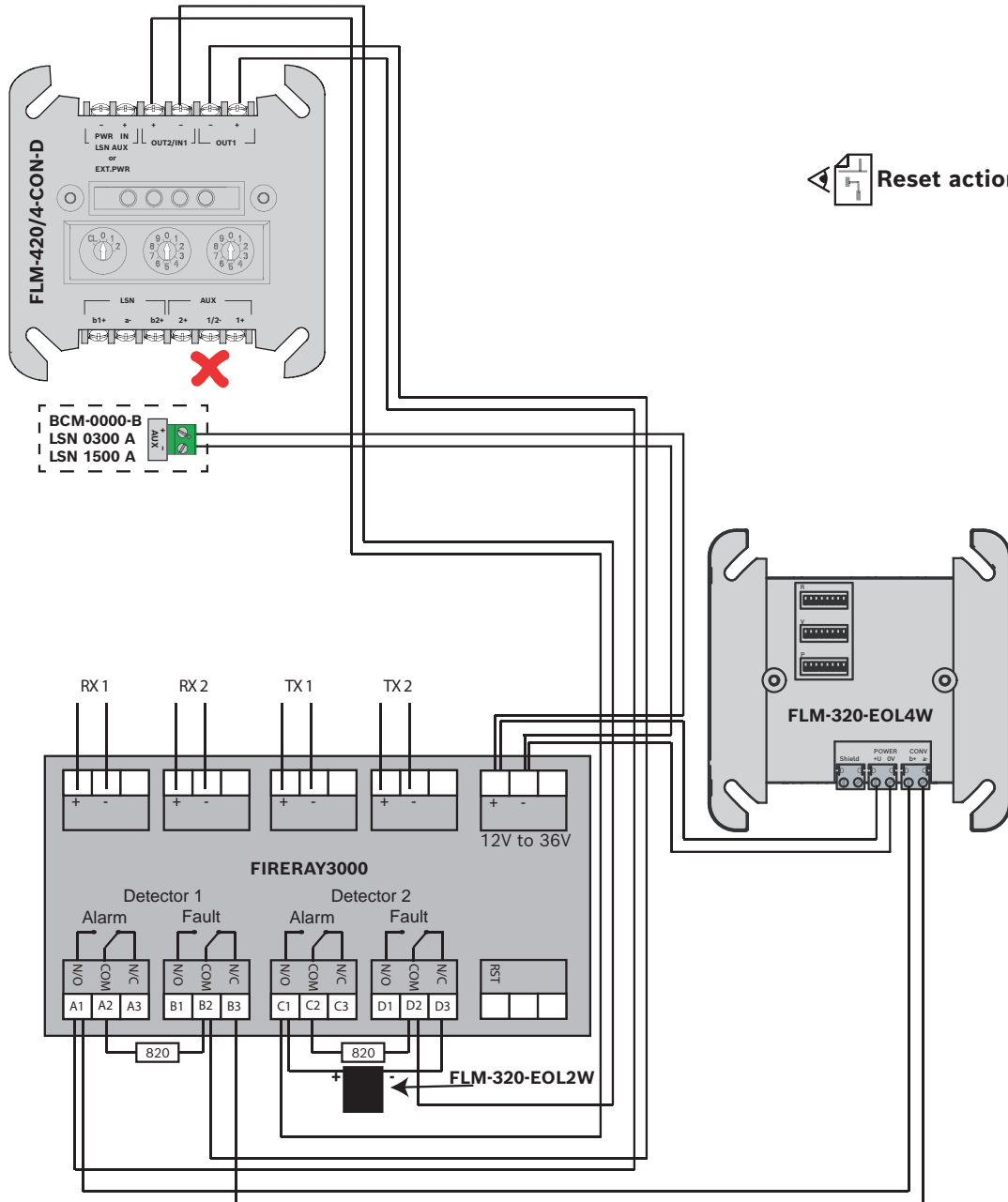




**FIRERAY3000**  
2 x **OUT1+2**



**ELS**



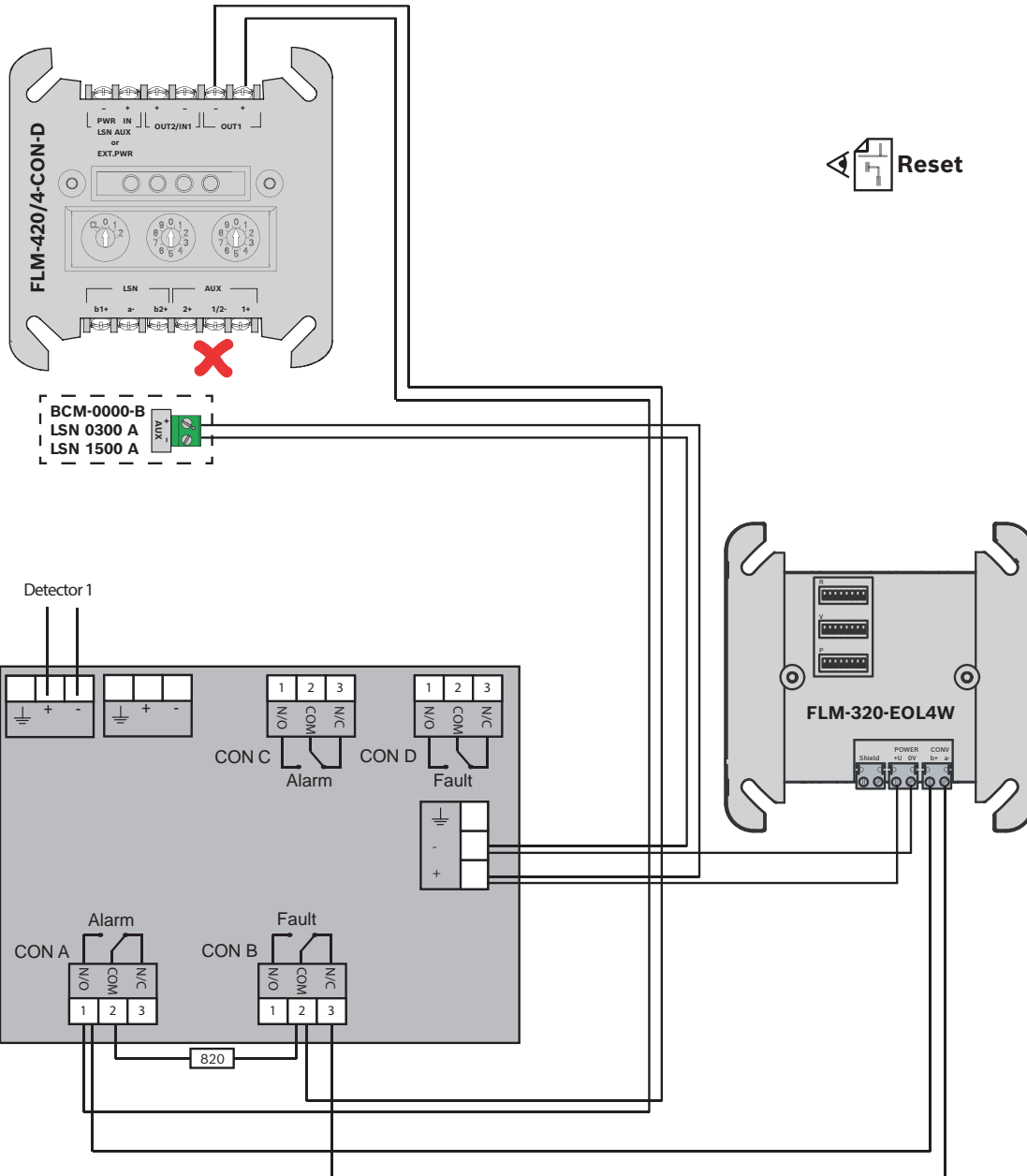


**FIRERAY5000**

1 x



**ELS**



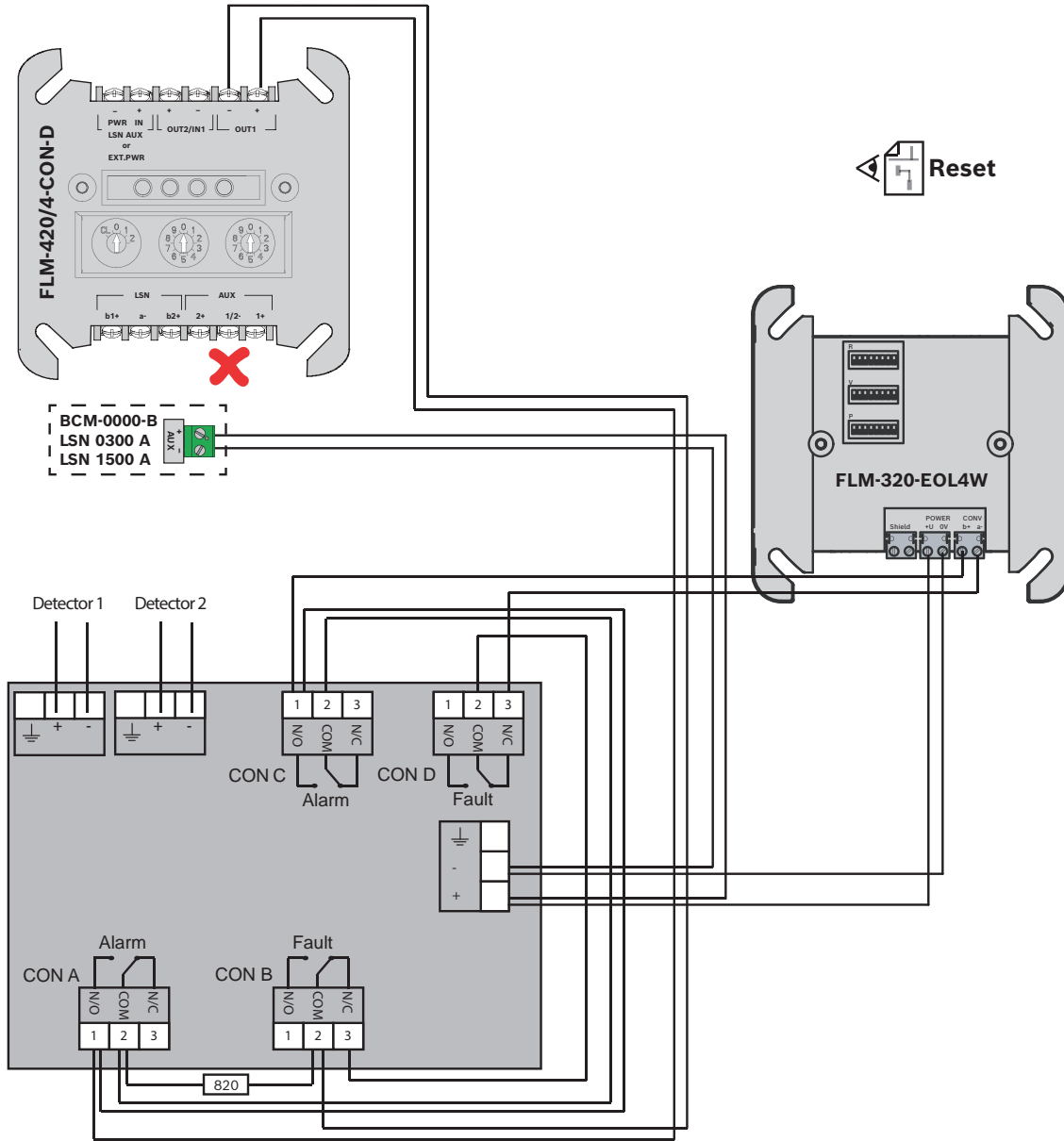


**FIRERAY5000**

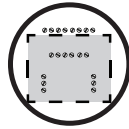
**2 x OUT1**



**ELS**



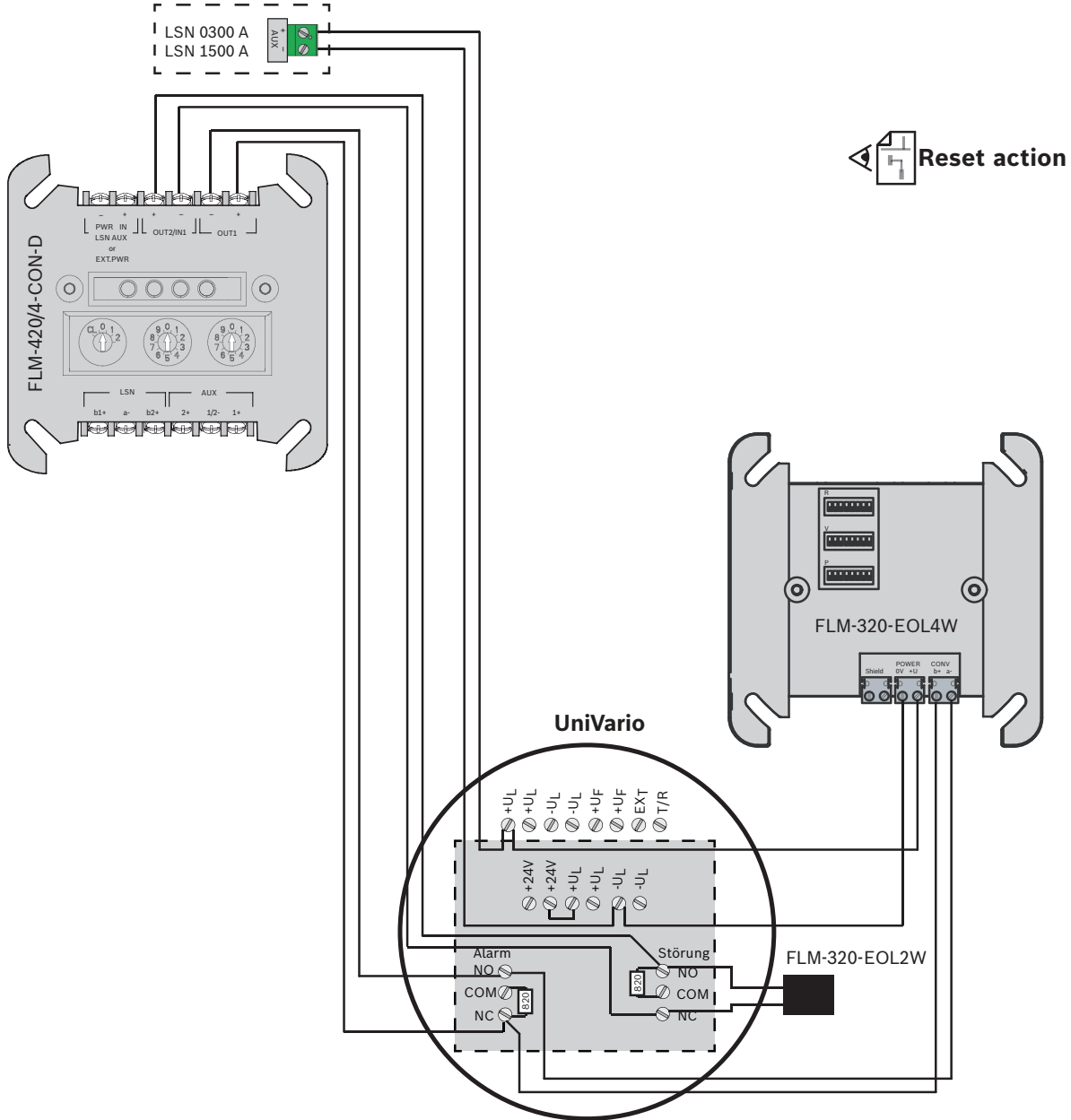




UniVario WMX5000  
 UniVario FMX5000  
 UniVario KMX5000



ELS





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