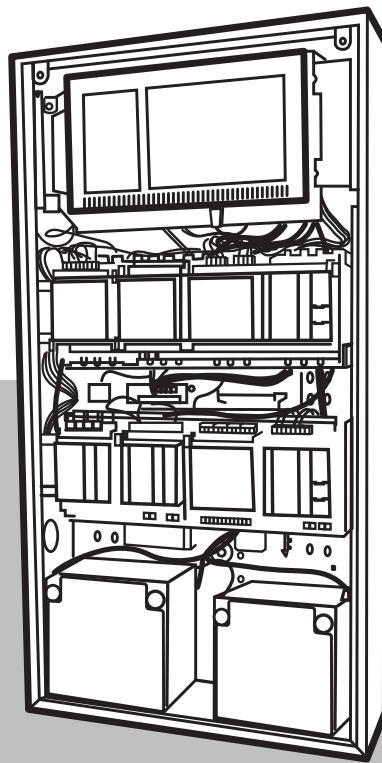


# AVENAR panel





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# 1 Notices

## 1.1 Content

This Wiring Guide shows how the peripheral devices are connected to the fire panel in principle. National and local regulations are not taken into account. The application of national and local requirements may result in further connections.

**Notice!**

The connections laid out in this document also apply to AVENAR panel 2000, provided that the individual components are Bosch Sicherheitssysteme GmbH approved extensions of AVENAR panel 2000.

**Notice!**

The LSN 0300 A connections laid out in this document also apply to the LSN 1500 A module. Consider for the LSN 1500 A module, that for installations in Germany, where compliance to VdS 2540 is required, the AUX line and the LSN line have to be in separate cables.

---

## 1.2 Product Information

- You can find installation instructions for the individual components of the fire panel in the enclosed Installation Manual.
- More information (User manuals, Networking guide, System manual) is available on the Internet at: [www.boschsecurity.com](http://www.boschsecurity.com)

## 1.3 Important Notes

- Only use installation materials as recommended by Bosch Security Systems.
- Only perform conversion and soldering work wearing a grounding wrist strap.
- Assembly and installation must only be performed by qualified personnel.
- Note connection criteria of the regional authorities/institutions.



### **Danger!**

Touching live components can be fatal.  
Disconnect the power supply before carrying out installation.

### **Cable shield wire**

A cable shield wire is necessary for all two wire connections to CZM 0004 A and for connecting the following products:

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

The sample wiring following shows how to apply a cable shield wire.



### **Notice!**

If a cable shield wire for the LSN cable has to be connected, then proceed according to LSN specifications.

- Connect LSN cable shield on panel side to designated functional earth connector:
  - two connections at start and end of a loop
  - one connection at the start of a stub
- Loop through cable shield at all LSN peripheral devices using provided terminals
- No additional connection of LSN cable shield is permitted, neither to earth connectors at any location nor to other electrical potential

## 1.4 User Notes

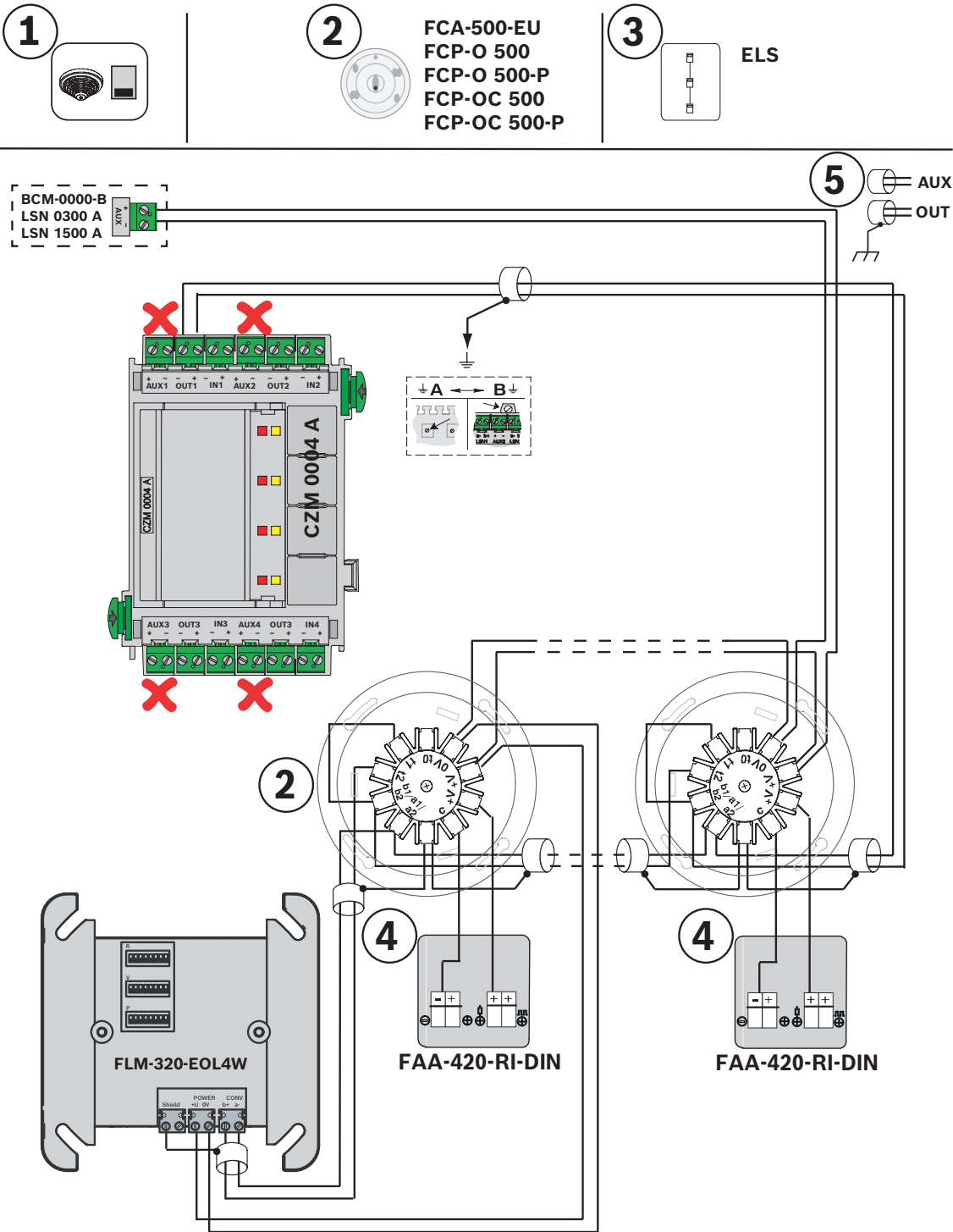
The wiring guide is structured as follows:

- Chapter Wiring is sorted by the device to which a peripheral device is connected. A wiring shows the direct connection of one device to another device (no cascading connections).
- Find a collection of all wirings which are enriched with additional EOL modules for creeping open monitoring in the section EOL.

To find the required wiring also use:













- the table of contents at the beginning of the chapter Wiring and at the beginning of the sections Functional Modules, Interface Modules, and EOL.
- the Index (language neutral),
- and the full-text search.

See the following sample wiring:




















1	Chapter symbols ( <i>Chapter Symbols, page 7</i> )
2	Connectable peripheral device
3	Connection symbols ( <i>Connection Symbols, page 7</i> )
4	Optional components
5	Power Supply and Wiring ( <i>Power Supply and Wiring, page 8</i> )

### 1.4.1 Chapter Symbols



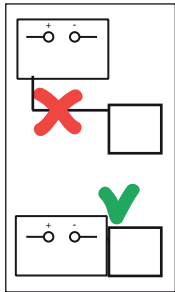
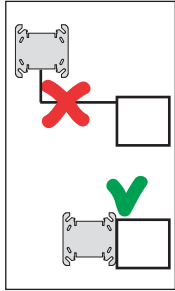

	Automatic detectors		Operating and display panels		Printer
	Power supply		Functional modules		Fire service equipment
	Interface modules		Extinguishing systems		Manual call points
	Signaling devices		Door controls		Transmission units

### 1.4.2 Connection Symbols

	Mandatory wiring		Optional wiring		Not allowed
	Redundancy		Loop wiring		Loop wiring with redundant element
	Stub wiring		Redundant stub wiring		Stub wiring with redundant element
	Redundant stub wiring with redundant element	ELS	This wiring is compliant with VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS stands for Extended Line Supervision, which means creeping short circuit and creeping open monitoring. This wiring offers ELS. A creeping short circuit is detected by the following modules: LSN 0300 A, LSN 1500 A, and BCM-0000-B when using FPP-5000-TI13.		This loop wiring is compliant with VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. It offers ELS. Additional EOL modules are not necessary.
	Synchronization		Areas with danger of explosion		Panel
	Standalone panel		Standalone panel with redundancy		For detector bases: The wiring is valid solely for the detector base in which the detector is installed.

EN 54-2, DIBT etc.	If compliance with this standard is required, then use the specified wiring.				
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### 1.4.3 Power Supply and Wiring

	Cable, 2-wire is required.
	Shielded cable, 2-wire is required.
	The housing of the product containing the power supply must be mounted flush with the element.
	Flush mounting is required for the interface module.
 <b>Reset action</b>	See the wiring in this manual. To provide automatically resetting of the device you have to implement the reset action.

### 1.5 Resistance Values

The following table provides an overview of resistor color coding. The metal film resistors delivered with the product have 5 color bands, which indicate the resistance value.

Color	1. band	2. band	3. band	4. band (multiplier)	5. band (tolerance)
Silver				$10^{-2}$	$\pm 10\%$
Gold				$10^{-1}$	$\pm 5\%$
Black		0	0	$10^0$	
Brown	1	1	1	$10^1$	$\pm 1\%$
Red	2	2	2	$10^2$	$\pm 2\%$
Orange	3	3	3	$10^3$	$\pm 0.05\%$
Yellow	4	4	4	$10^4$	$\pm 0.02\%$
Green	5	5	5	$10^5$	$\pm 0.5\%$



<b>Color</b>	<b>1. band</b>	<b>2. band</b>	<b>3. band</b>	<b>4. band (multiplier)</b>	<b>5. band (tolerance)</b>
Blue	6	6	6	$10^6$	$\pm 0.25\%$
Violet	7	7	7	$10^7$	$\pm 0.1\%$
Gray	8	8	8	$10^8$	$\pm 0.01\%$
White	9	9	9	$10^9$	

In accordance with DIN EN 60062:2017

*Orange — white — black — brown — brown*: 3.9 k Ohm resistor with 1% tolerance,

*Red — red — black — brown — brown*: 2.2 k Ohm resistor with 1% tolerance.

## 2 Wiring



*FPP-5000 Power supply, page 11*

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

*DIBT, page 15*

*Functional Modules, page 42*

*BCM-000-B, page 43*

*CZM 0004 A, page 45*

*ENO 0000 A/B, page 61*

*LSN 0300 A, page 68*

*NZM 0002 A, page 106*

*RMH 0002 A, page 119*

*IOS 0020 A, page 120*

*FPE-5000-UGM, page 122*

*Interface Modules, page 124*

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

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

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

*FLM-420-RHV, page 172*

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

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

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

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

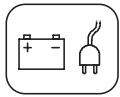
*EOL, page 188*

*CZM 0004 A, page 189*

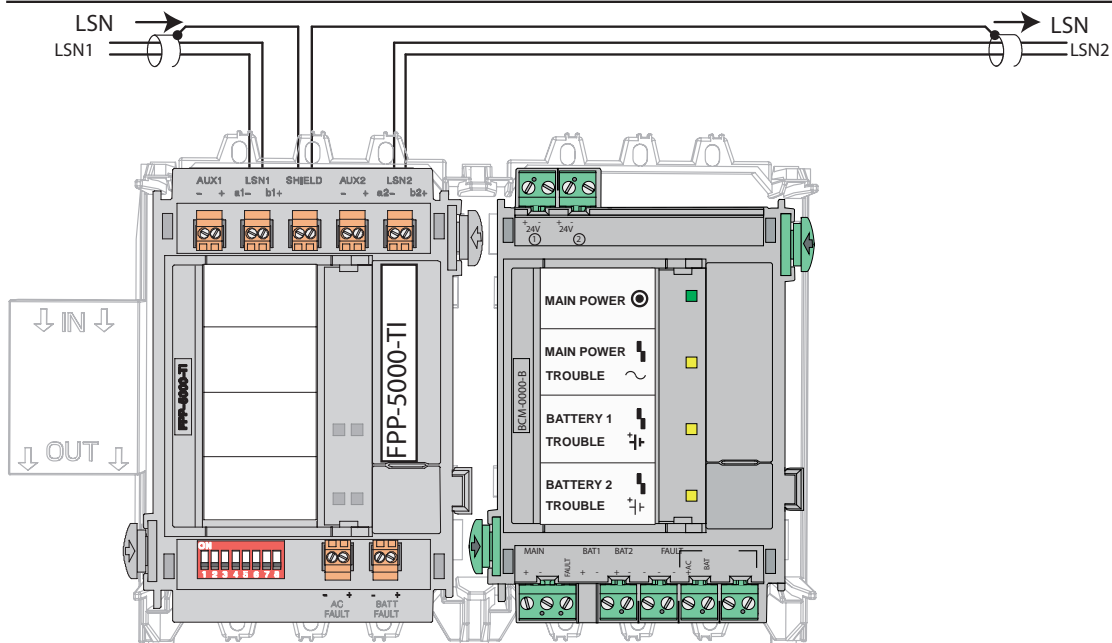
*LSN 0300 A, page 201*

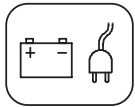
*FLM-420/4-CON-S/D, page 246*

## 2.1 FPP-5000 Power supply



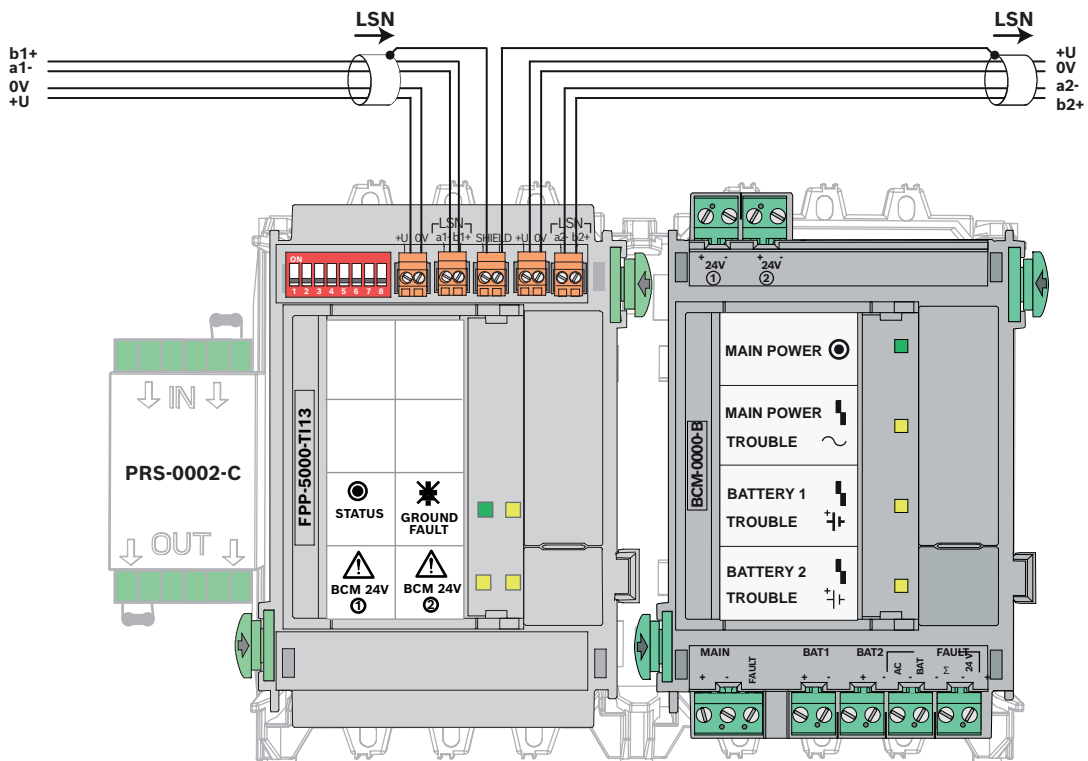
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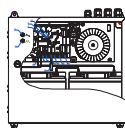
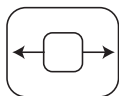


FPP-5000-TI13

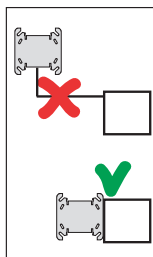
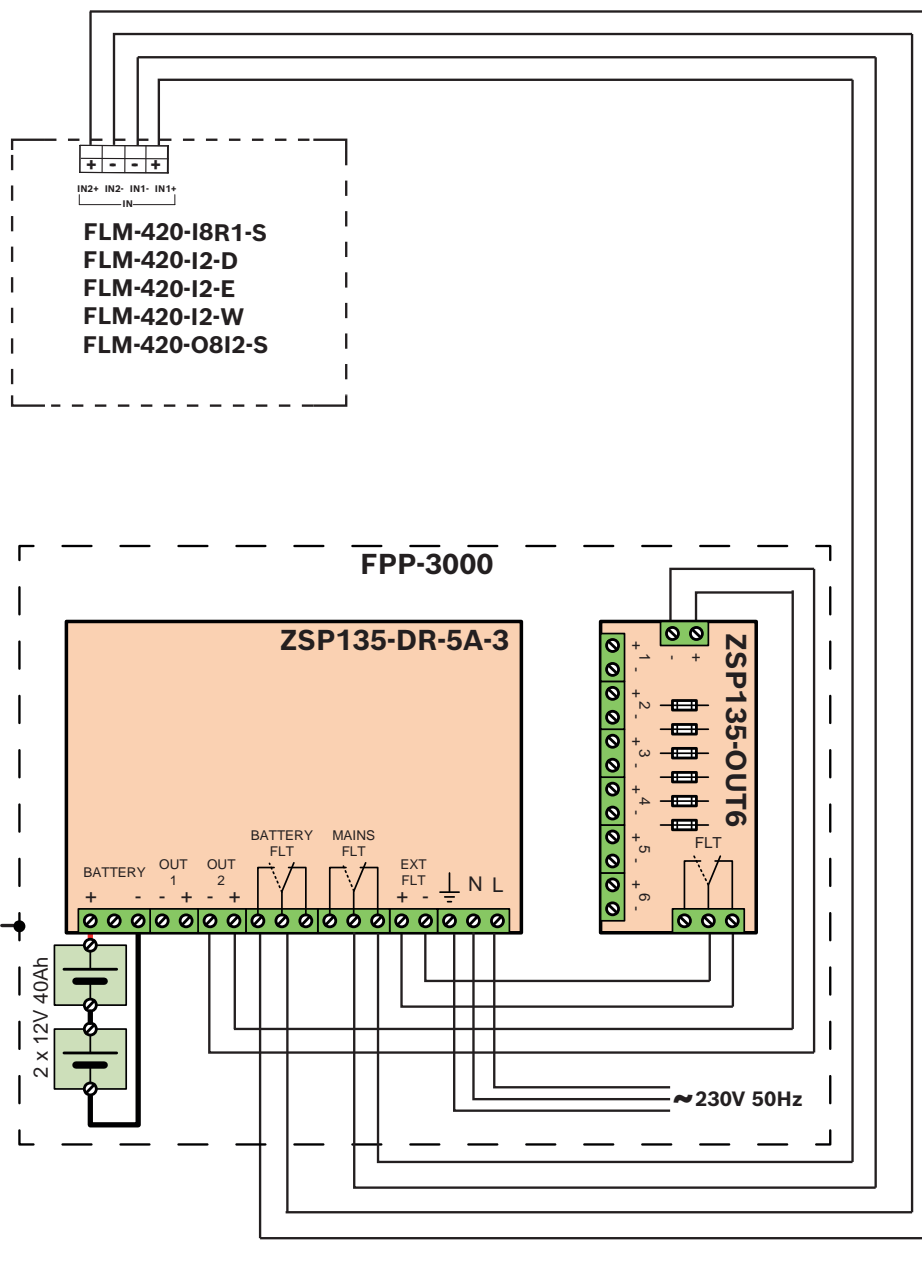
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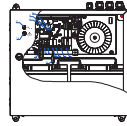
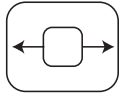


## 2.2 FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6)

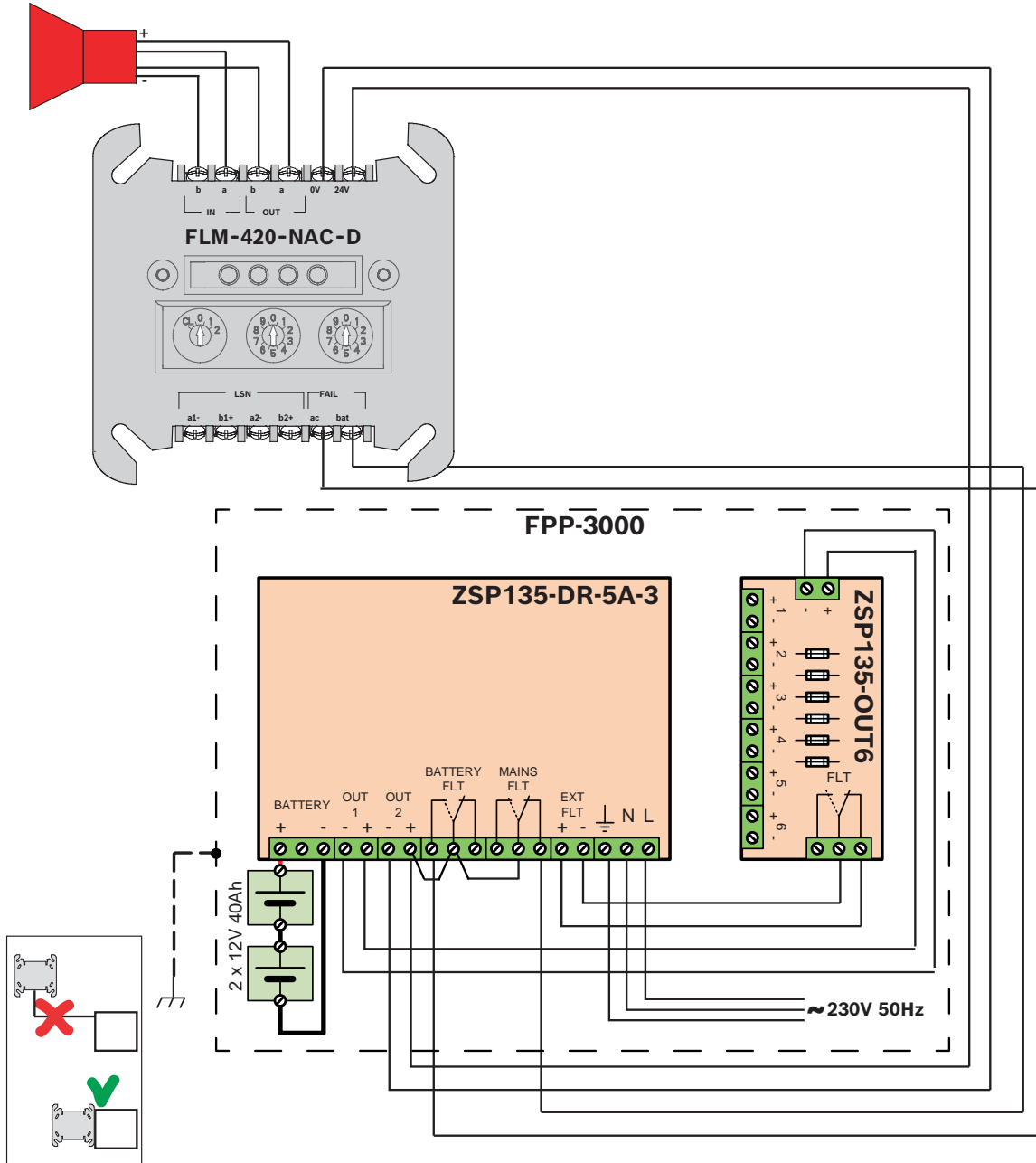


ZSP135-DR-5A-3  
ZSP135-OUT6  
FPP-3000

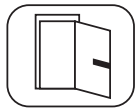




ZSP135-DR-5A-3  
ZSP135-OUT6  
FPP-3000

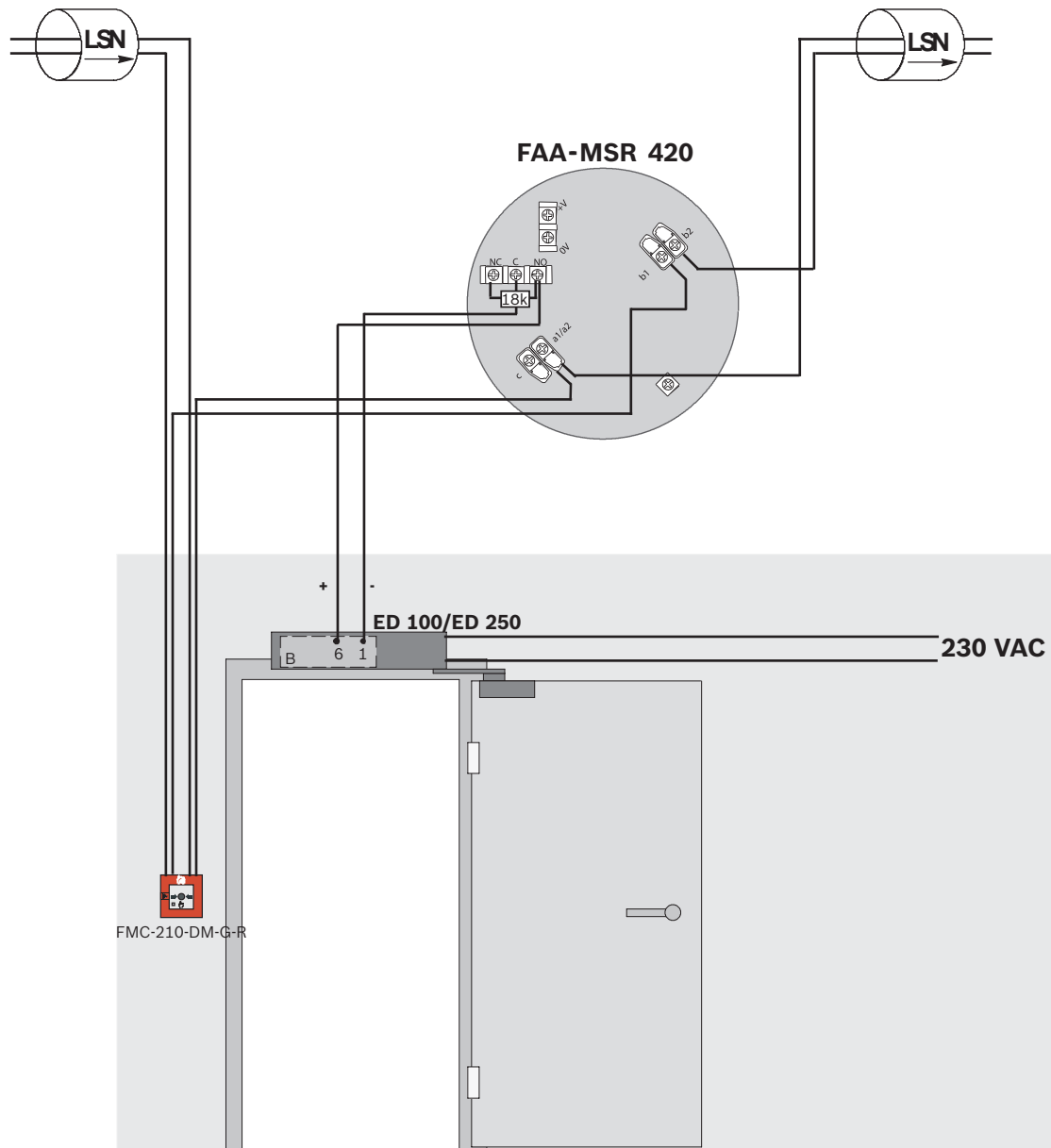


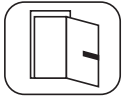
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ED 250  
(+Upgrade Card B)**

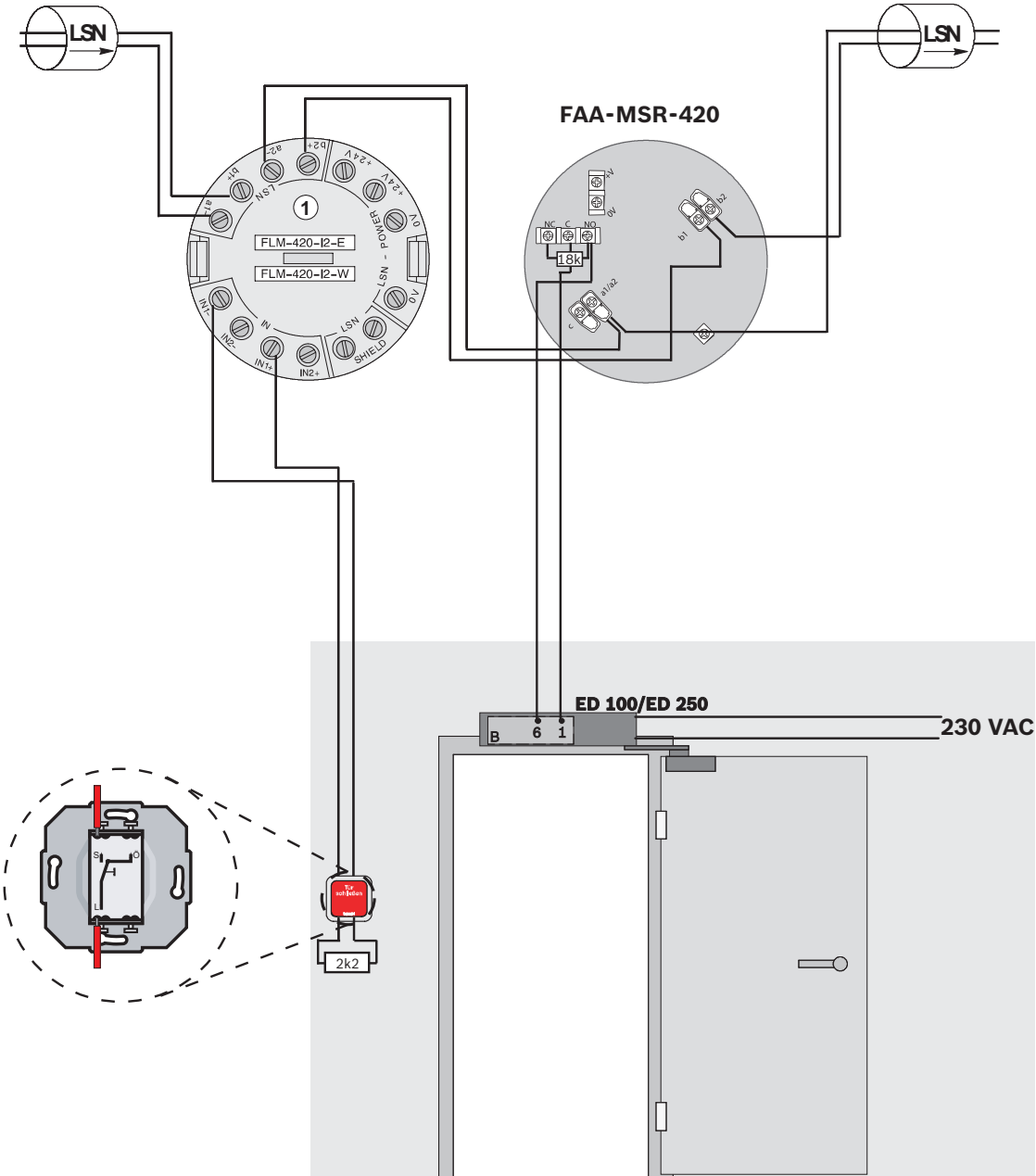
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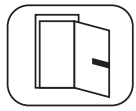


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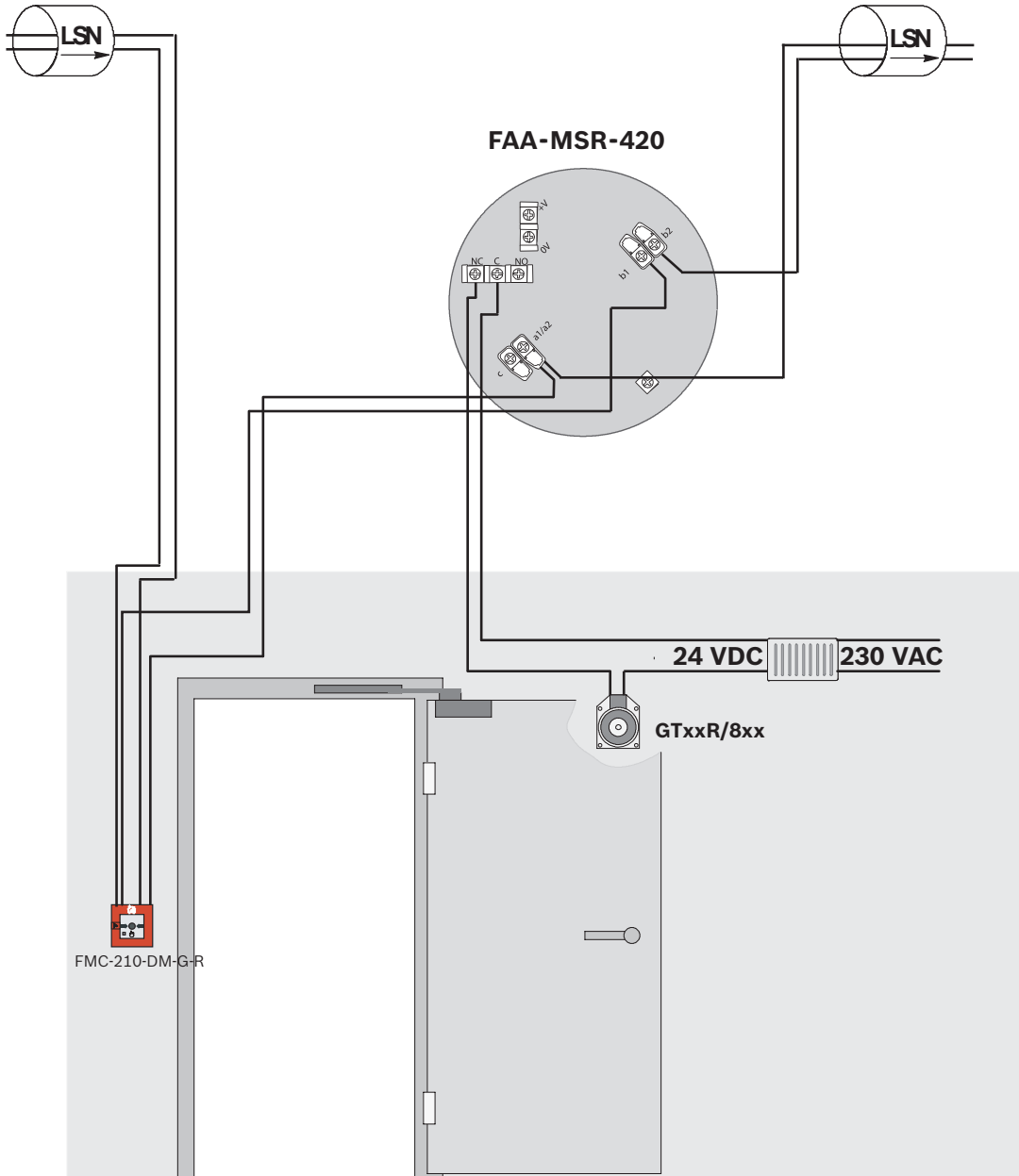


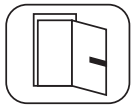




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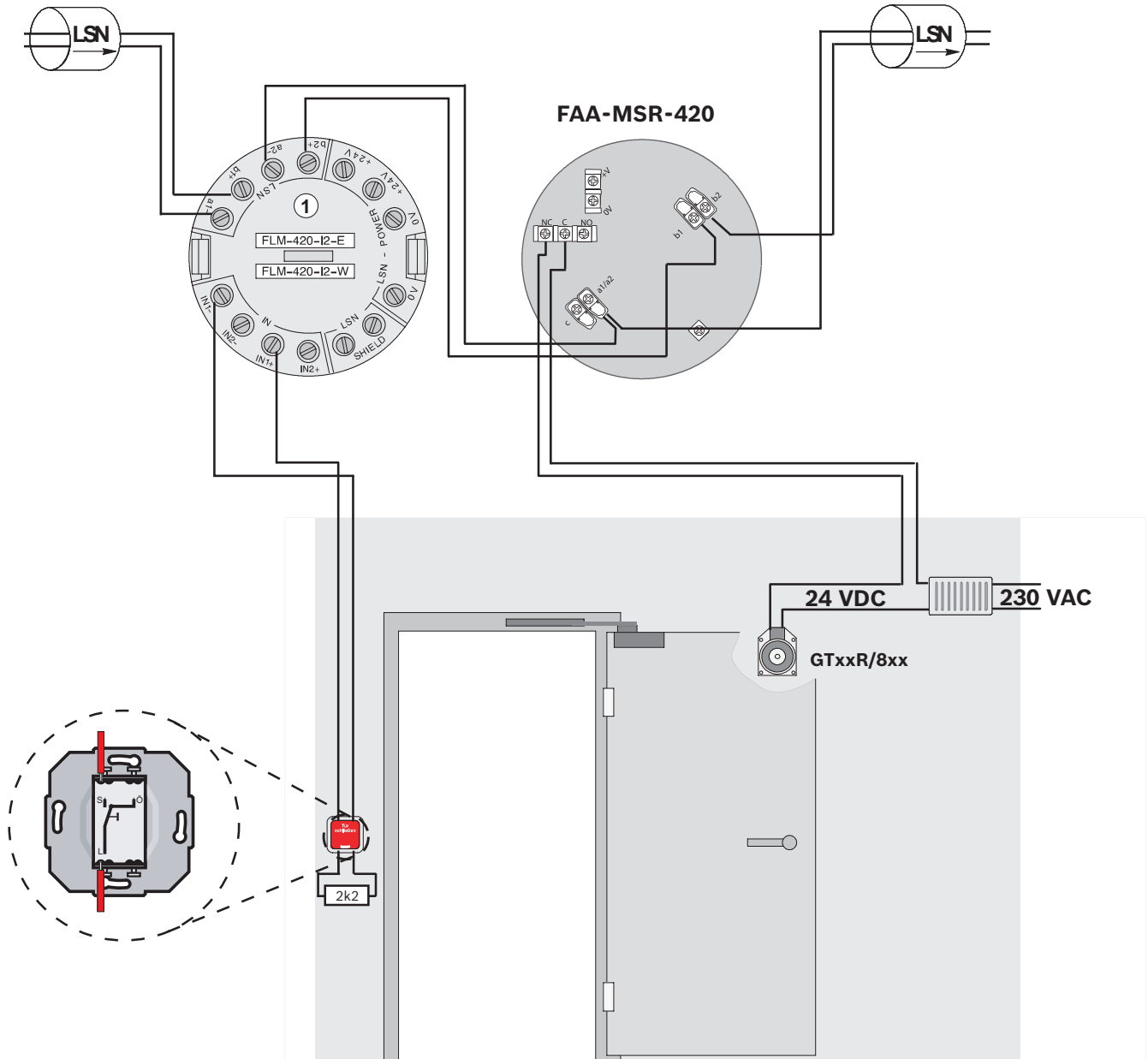


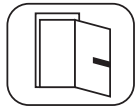


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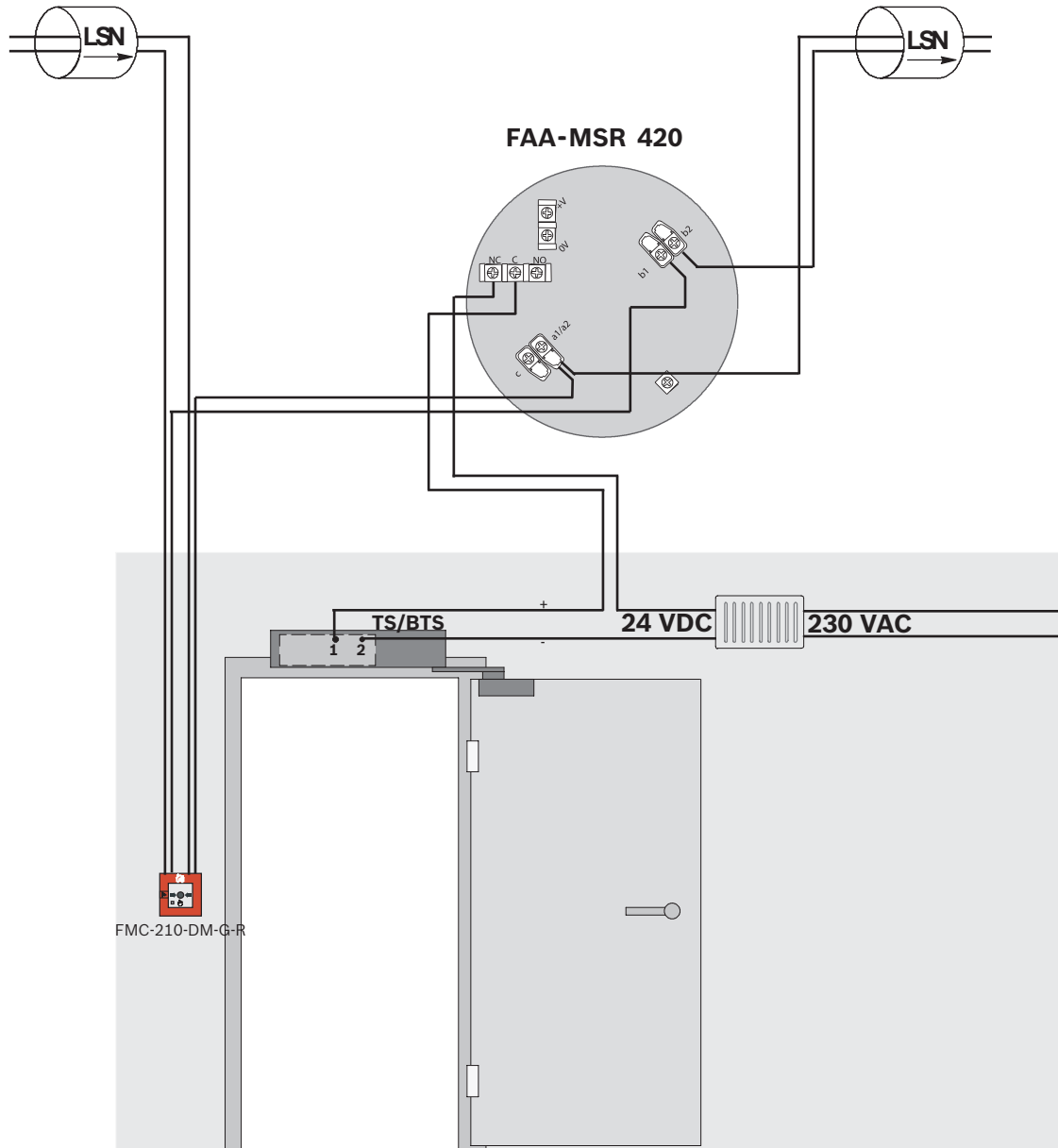
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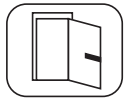




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 TS 93 GSR  
 BTS 80 EMB  
 BTS 80 FLB

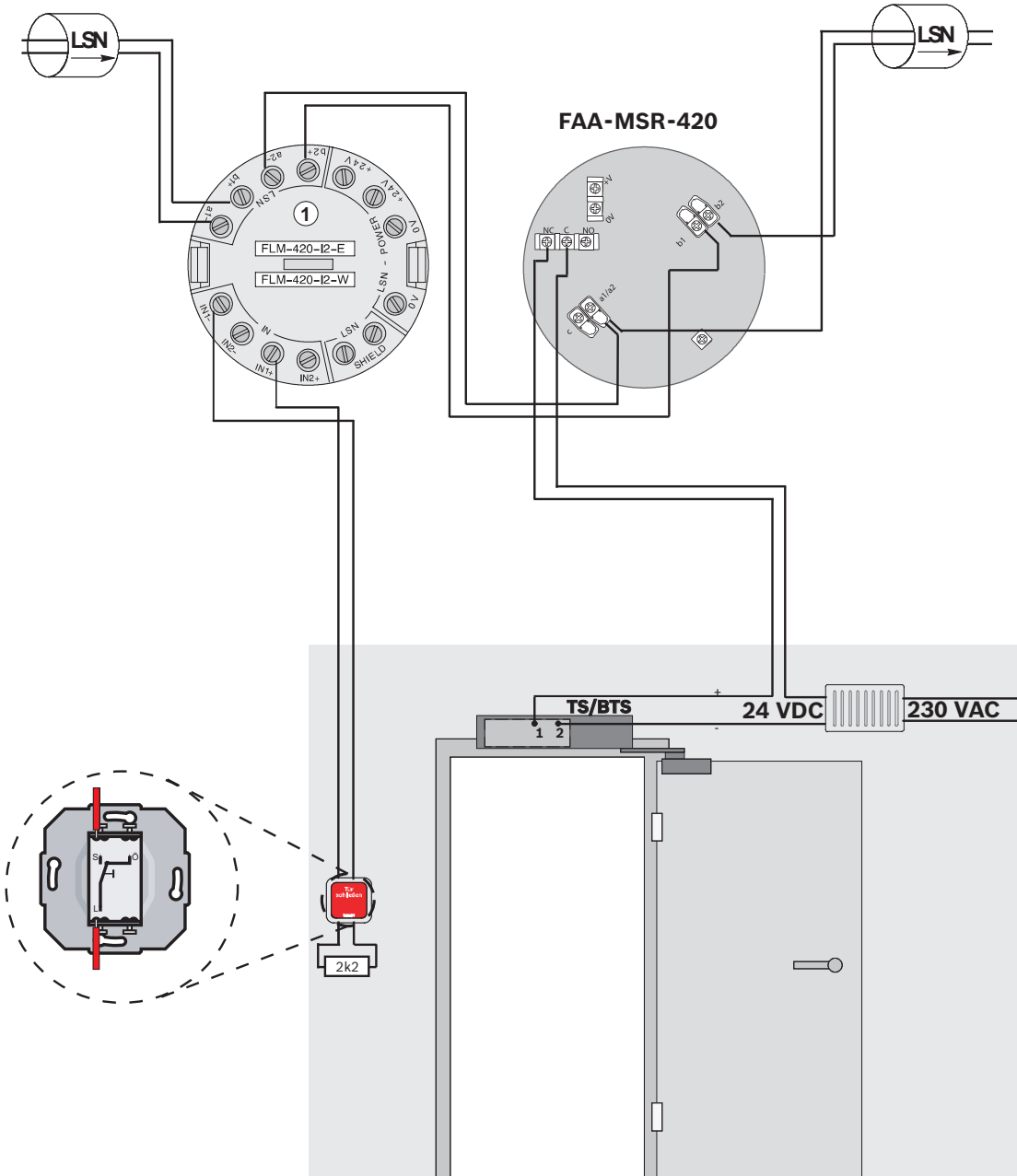
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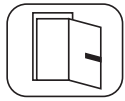




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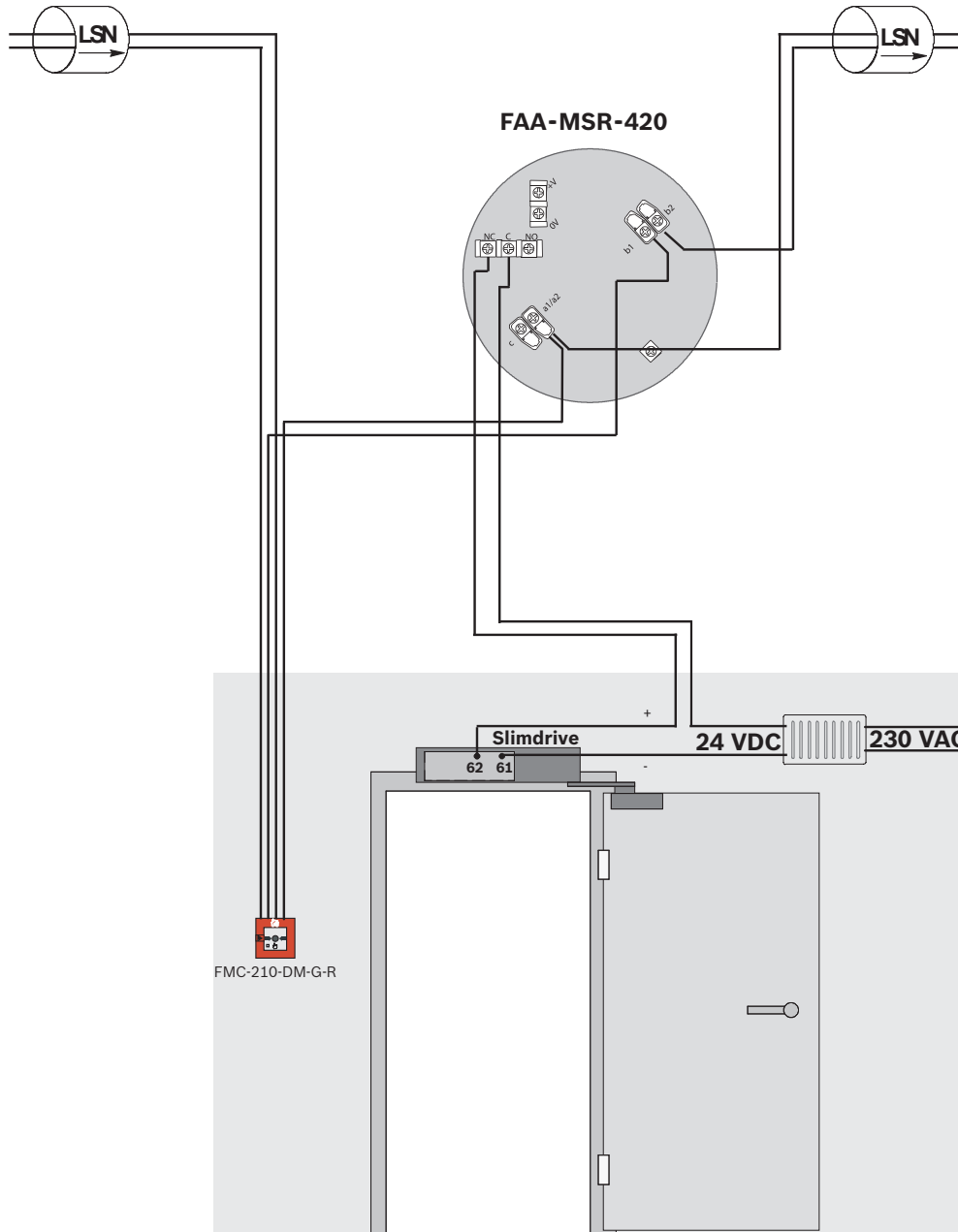
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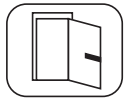




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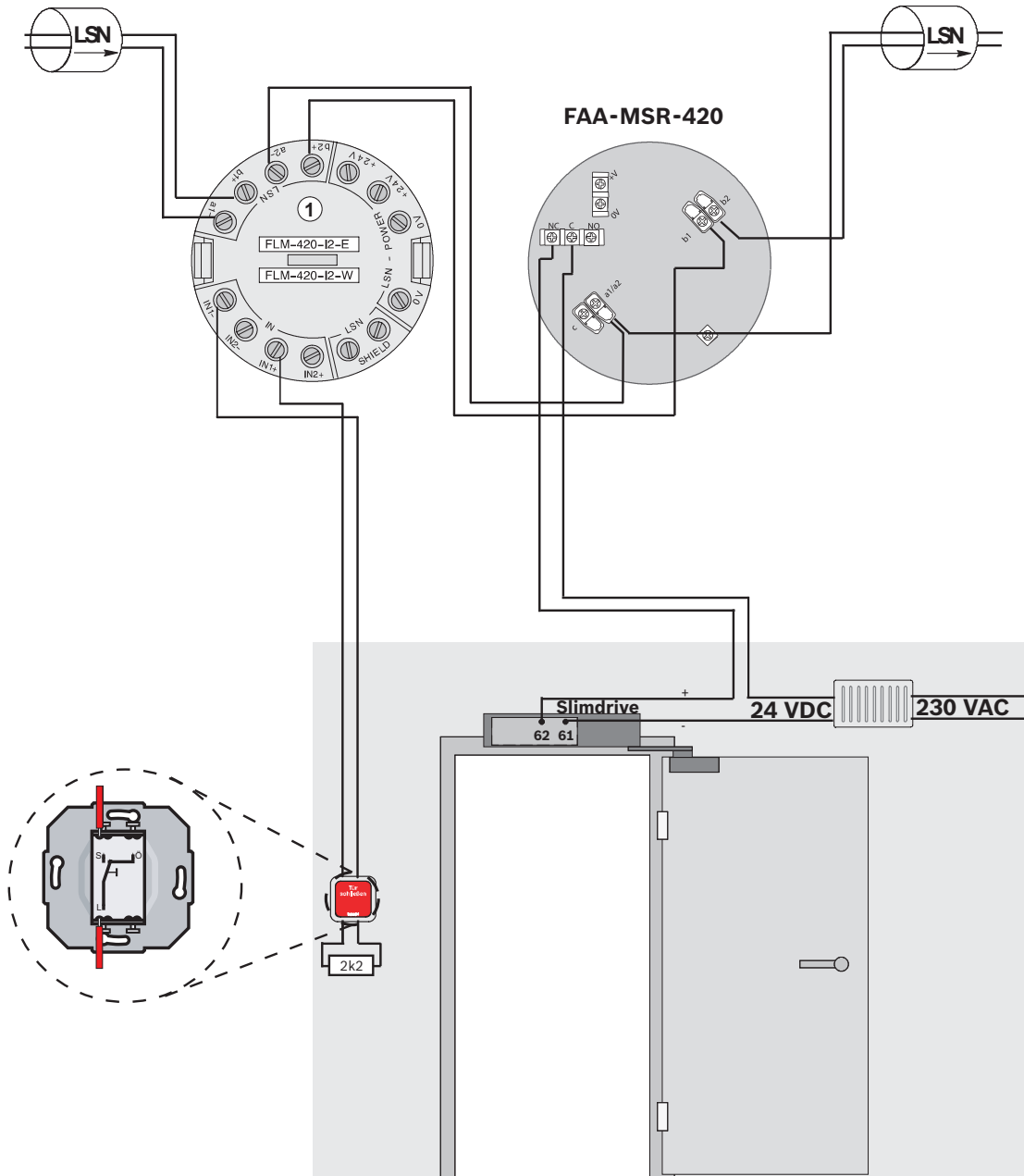
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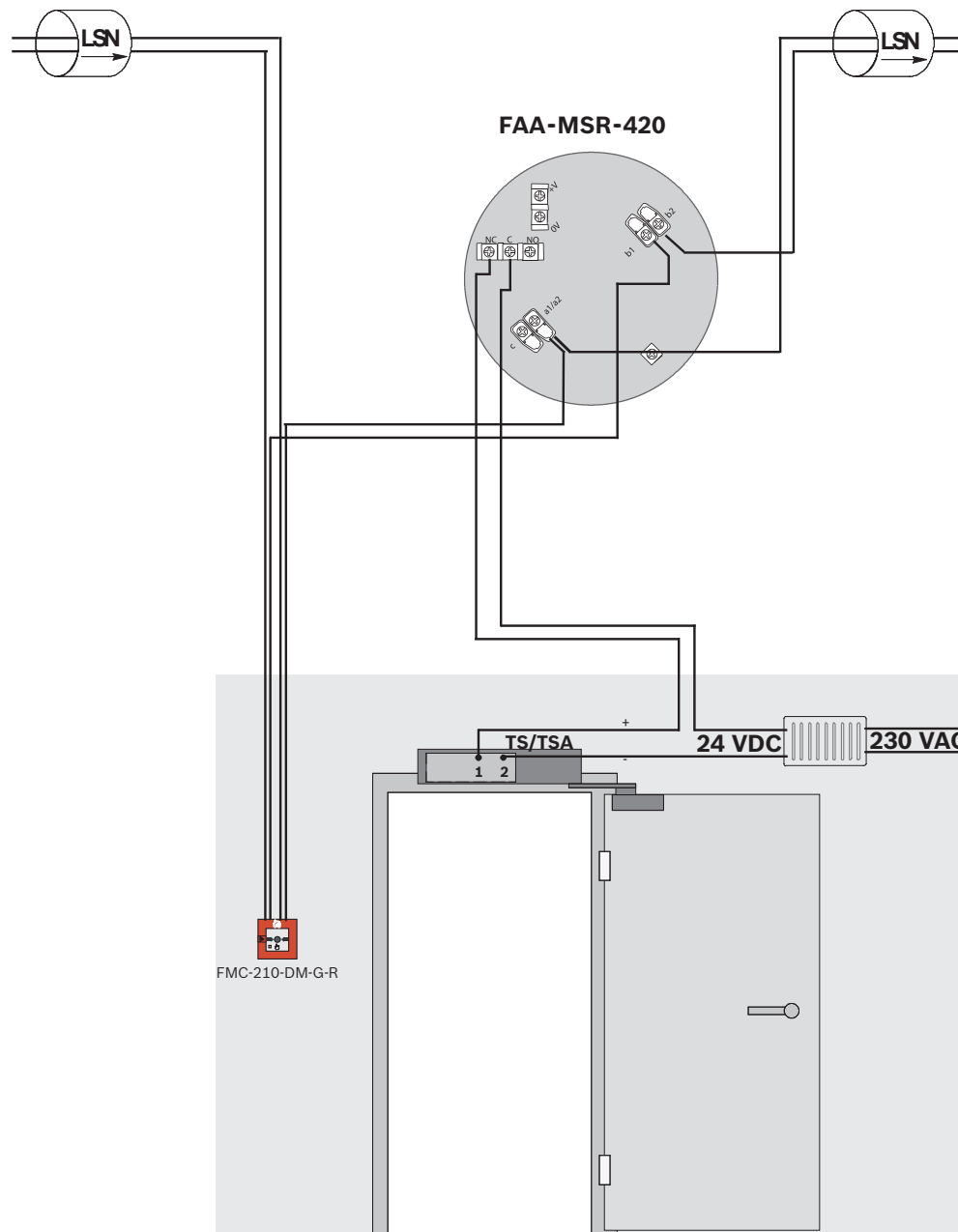
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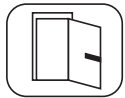




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 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

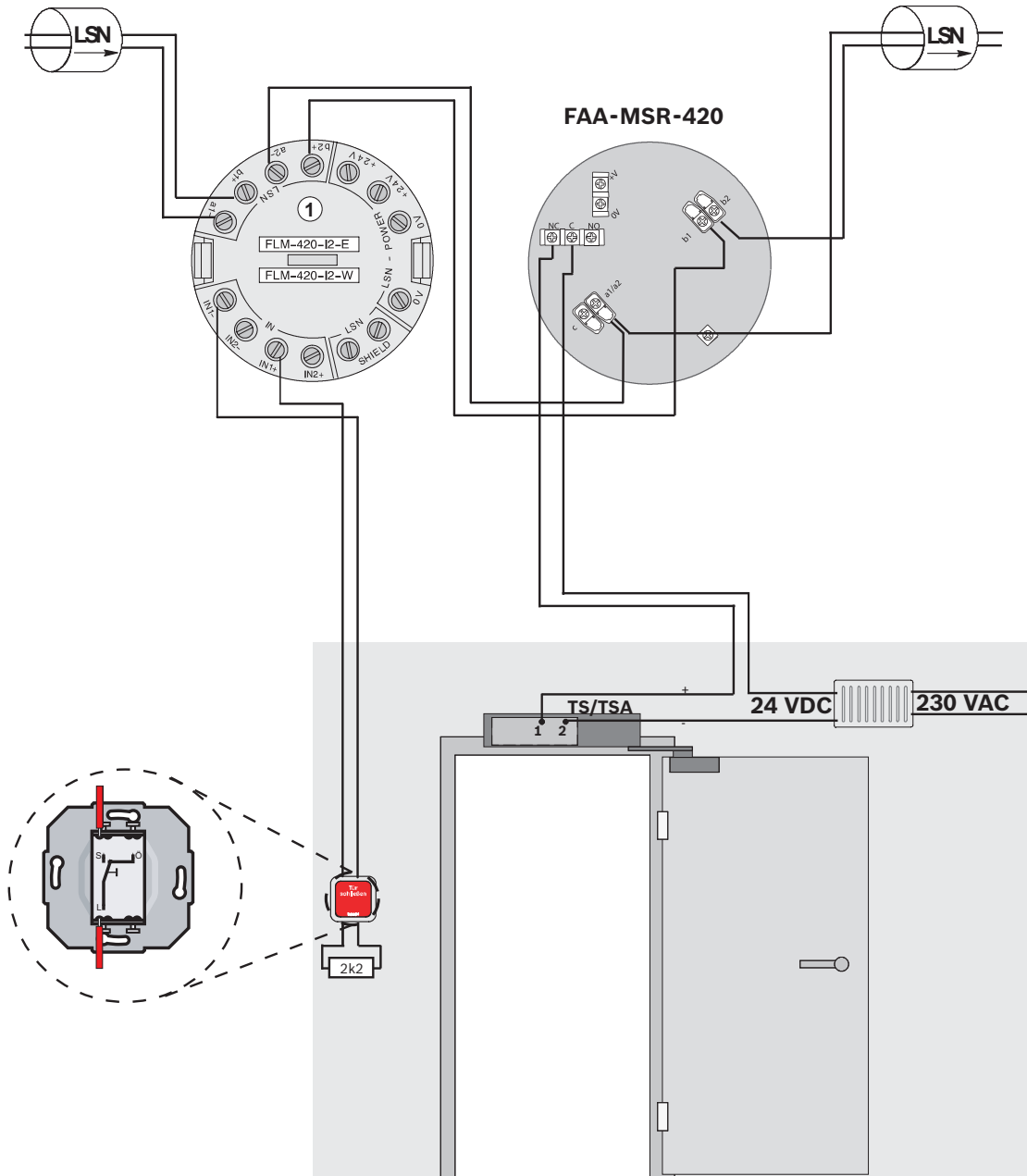
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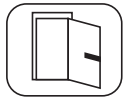


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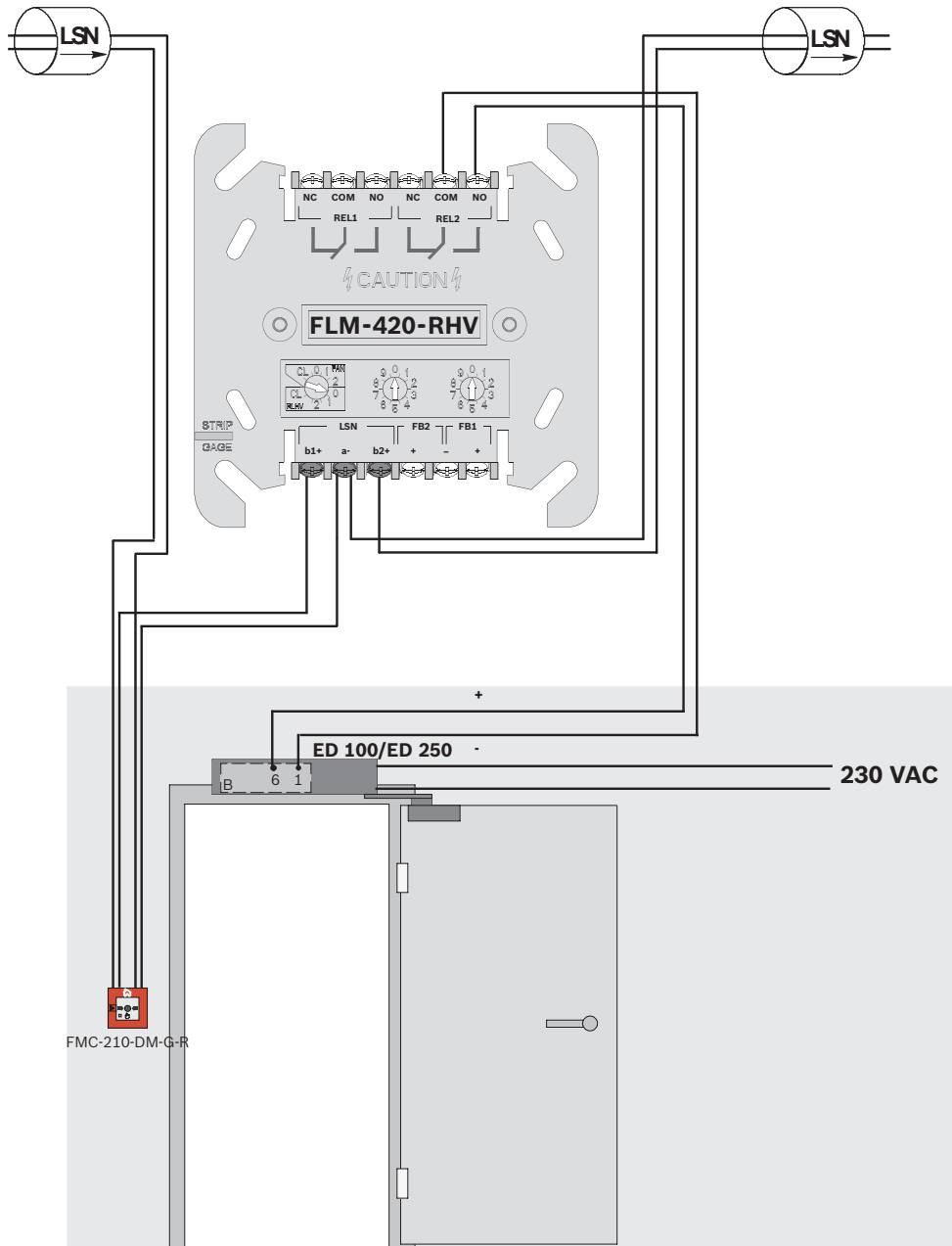


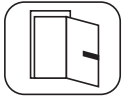




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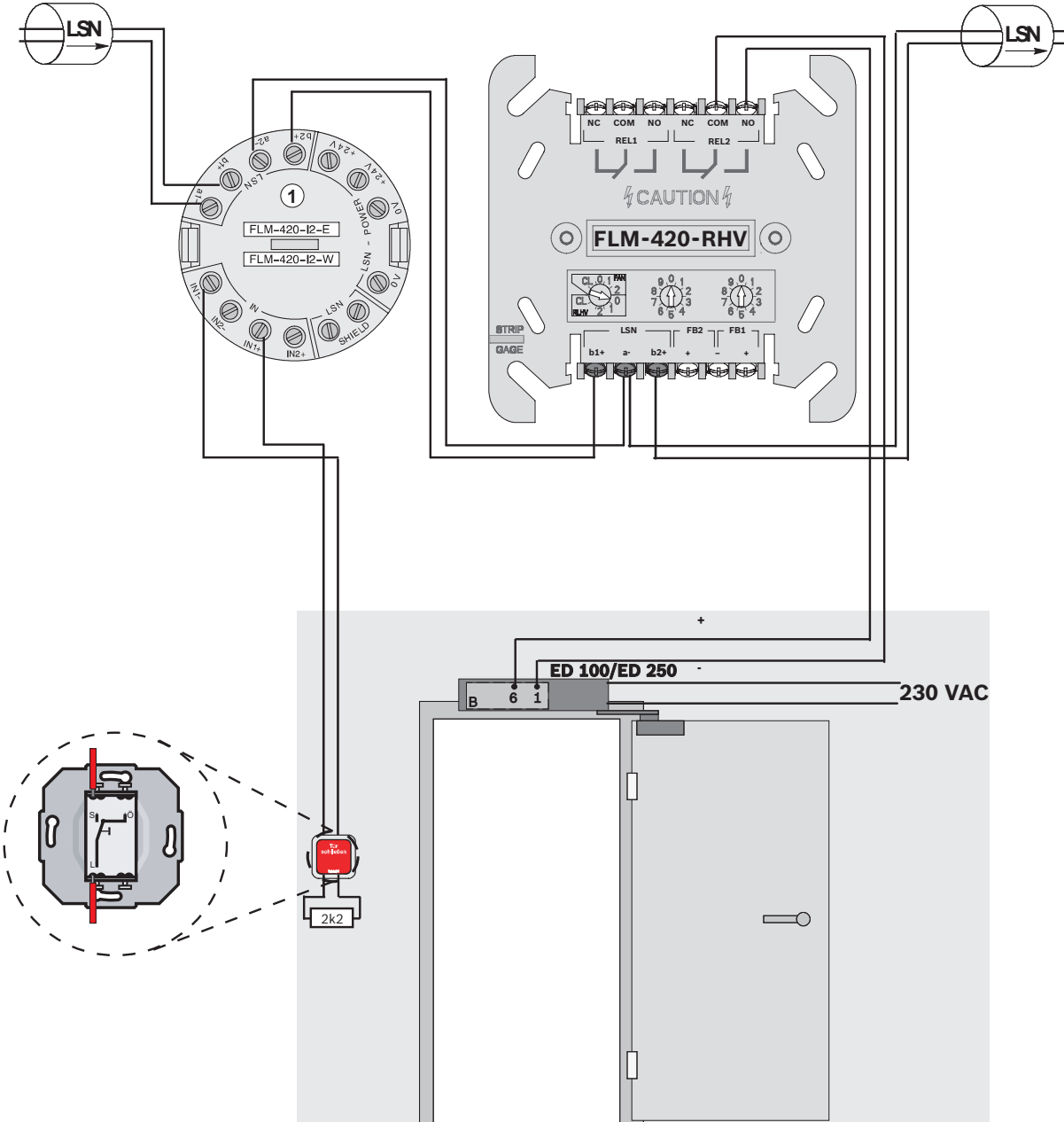
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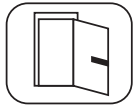




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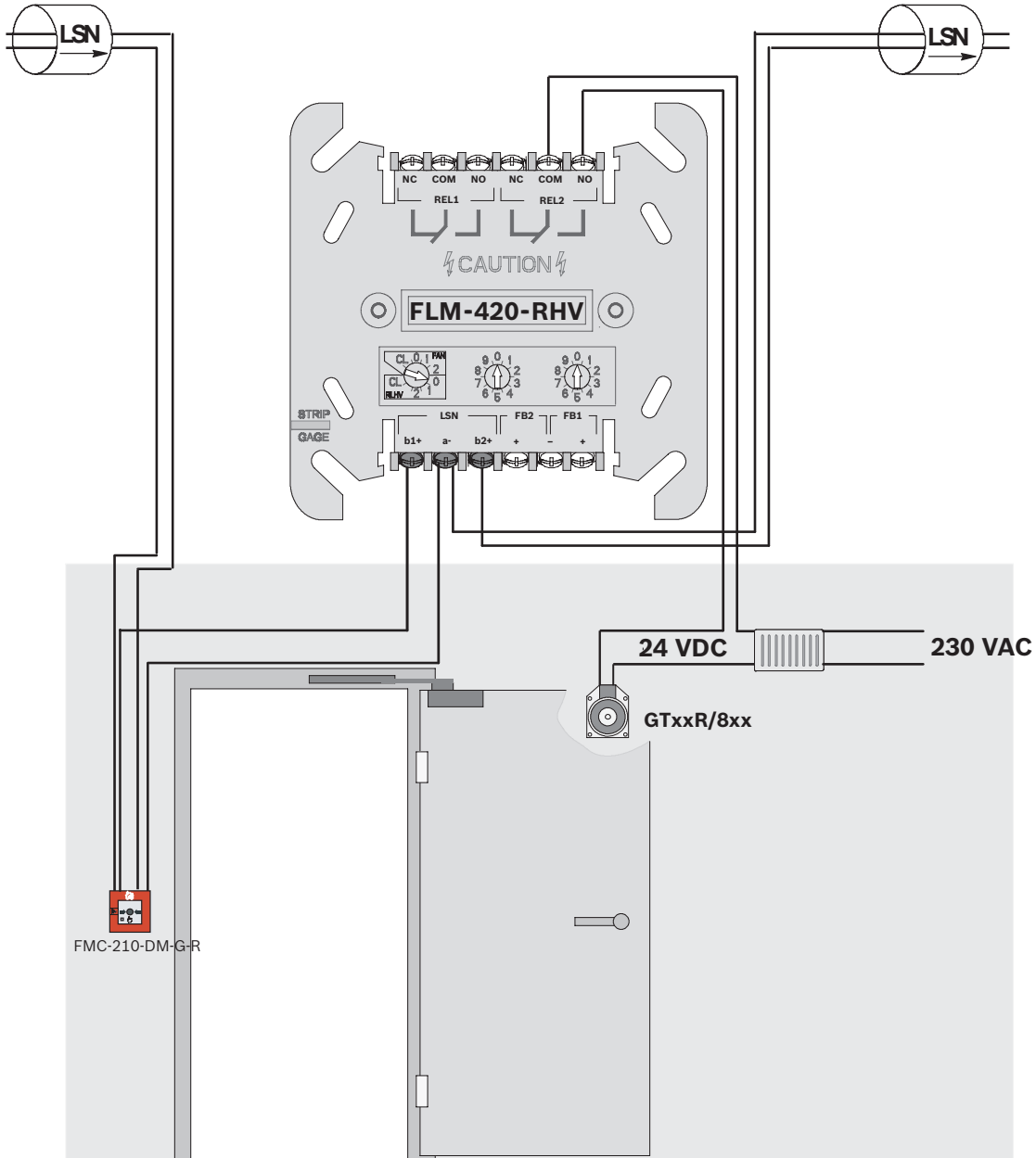


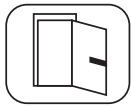


GT xx R

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DIBT

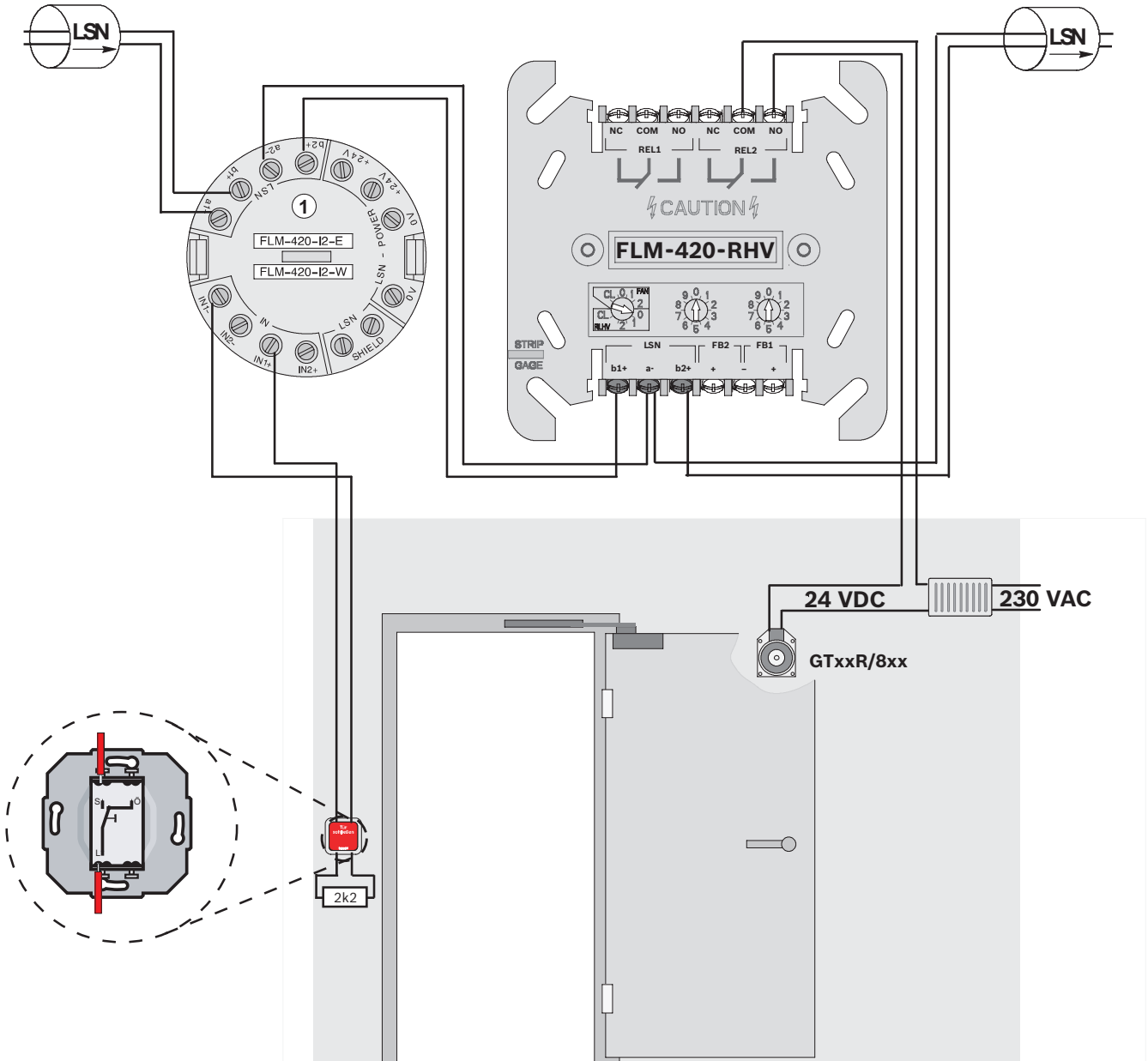


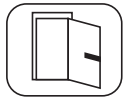


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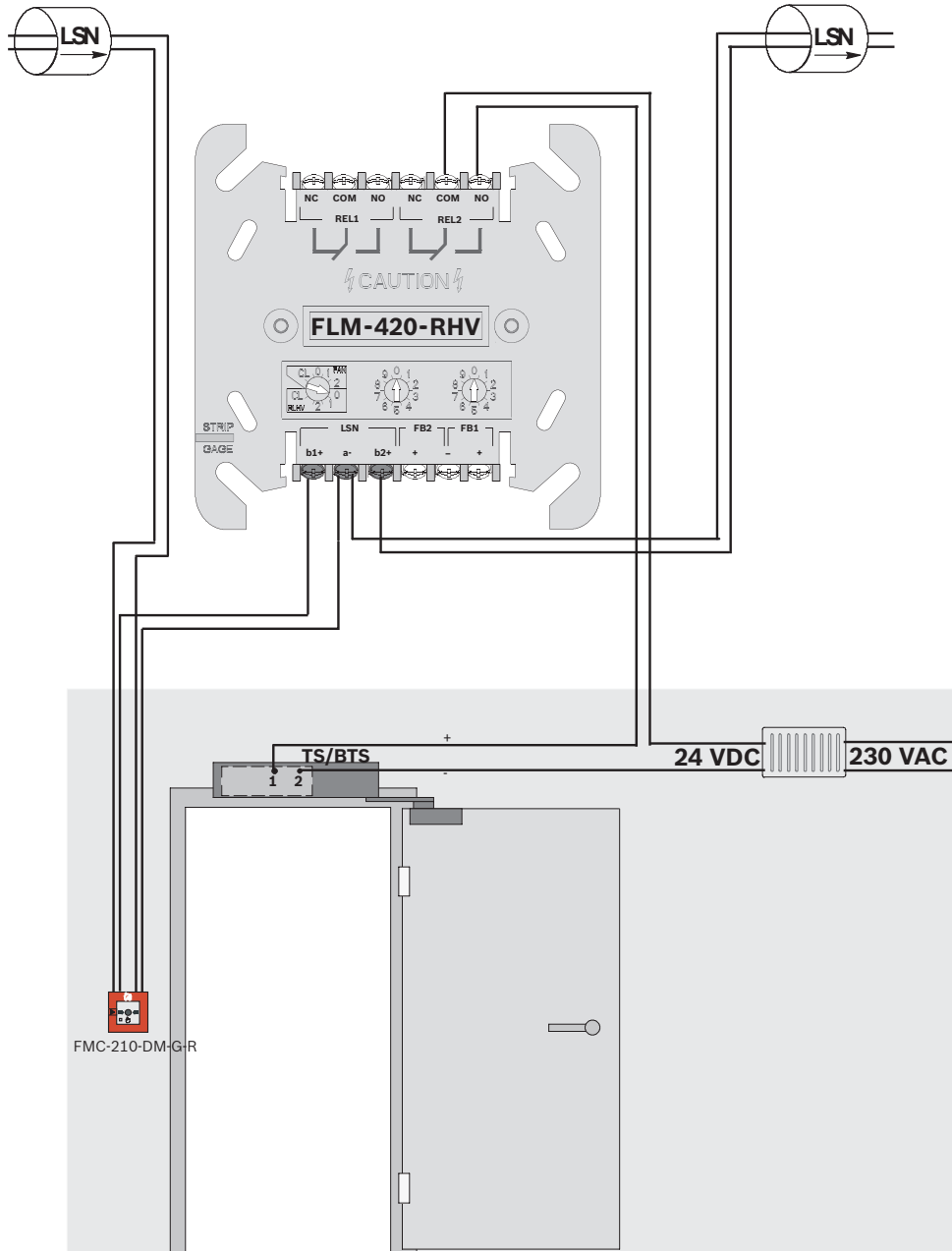
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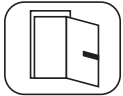




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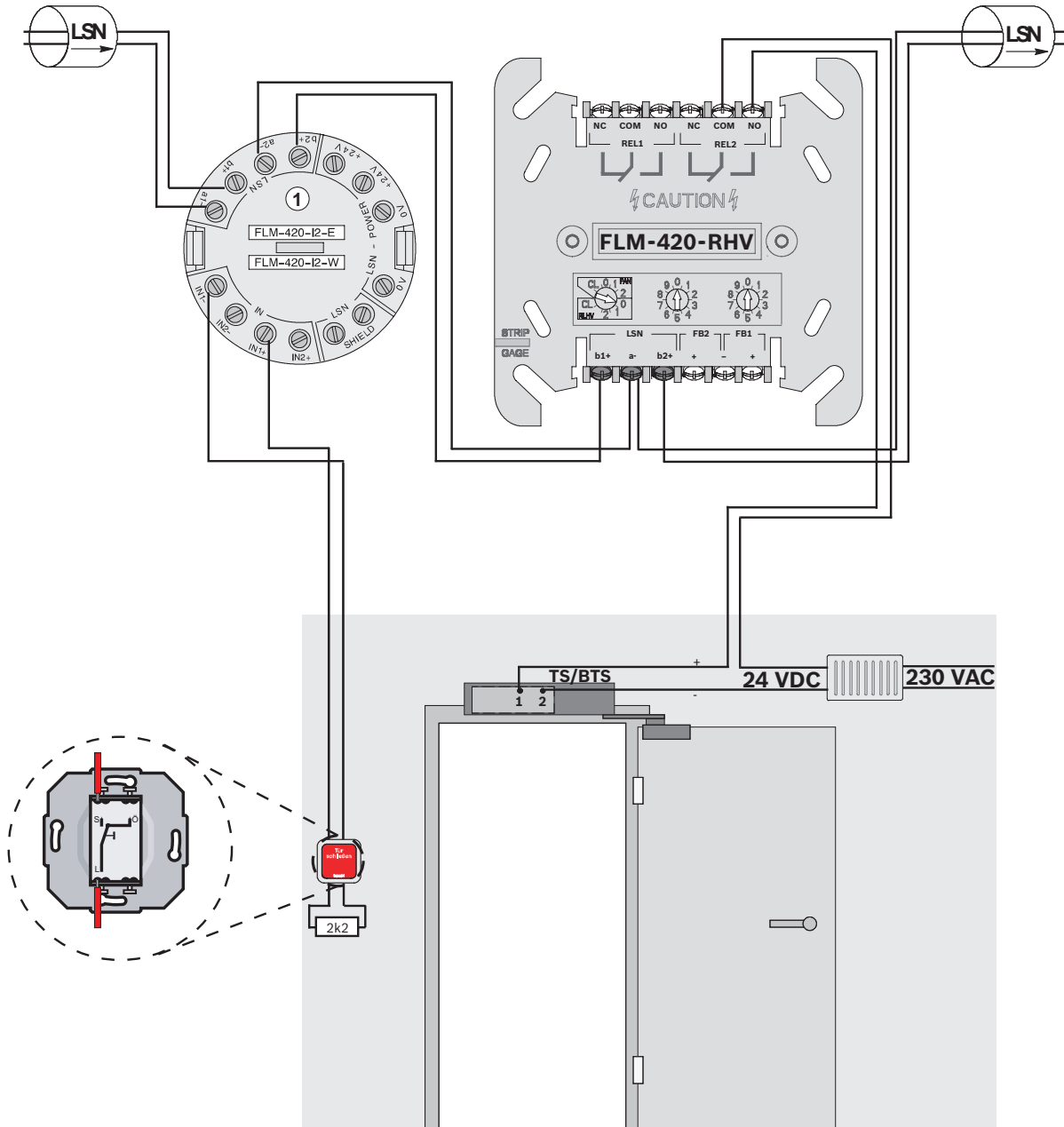
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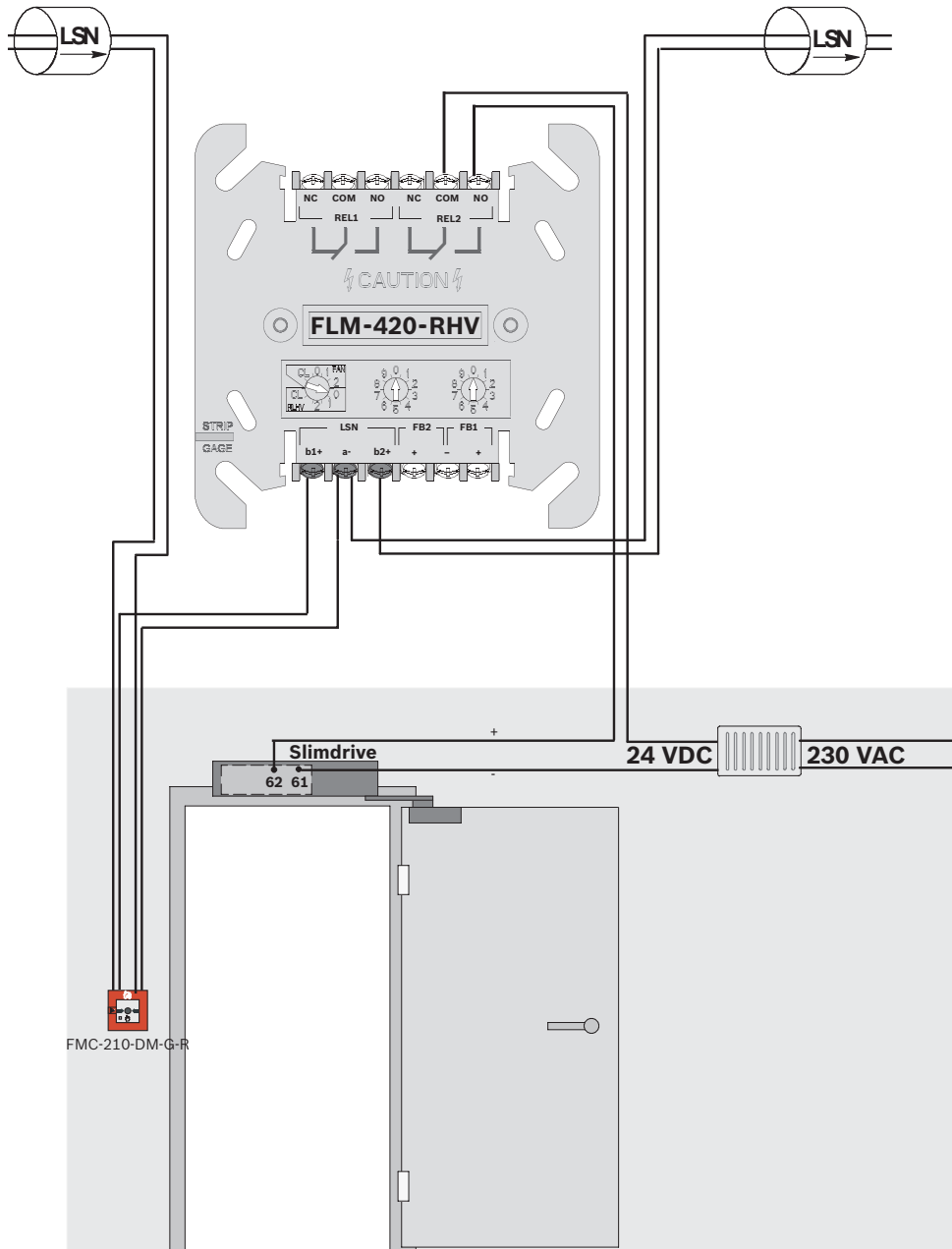
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Slimdrive EMD-F/EMD F-IS

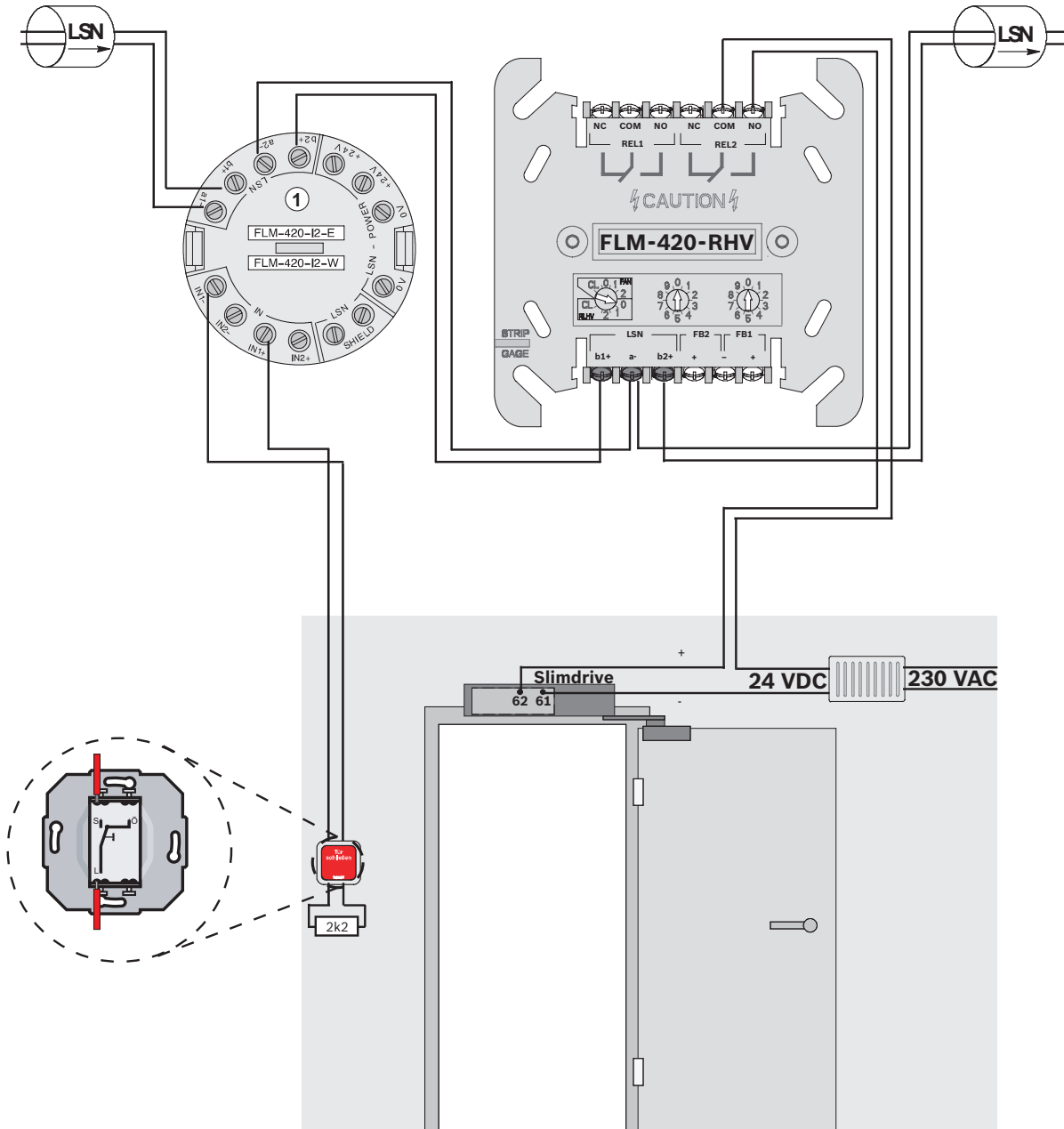
DIBT



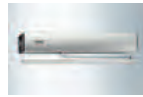
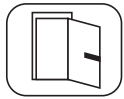


**Slimdrive EMD-F/EMD F-IS**

**DIBT**

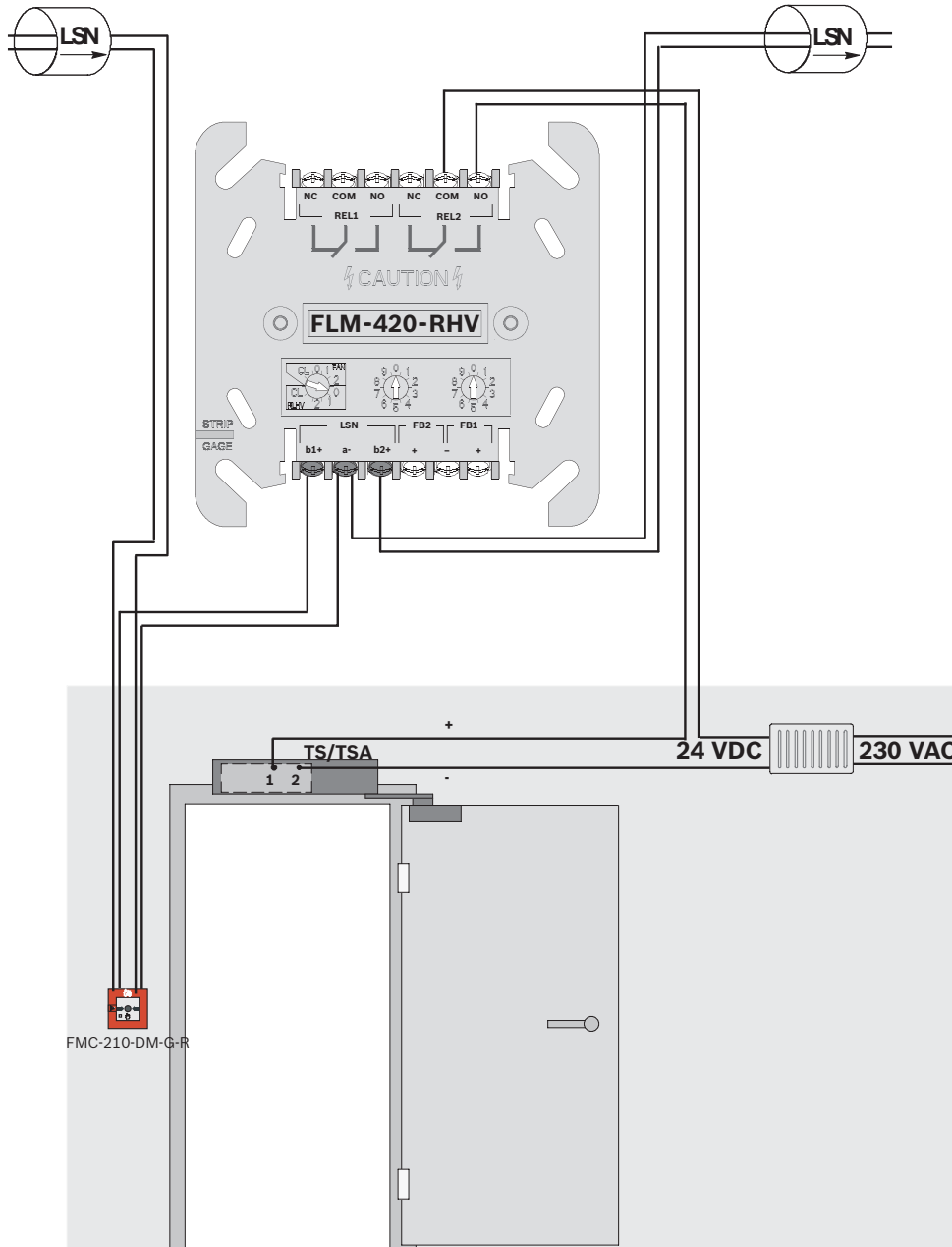


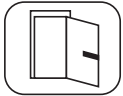




TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

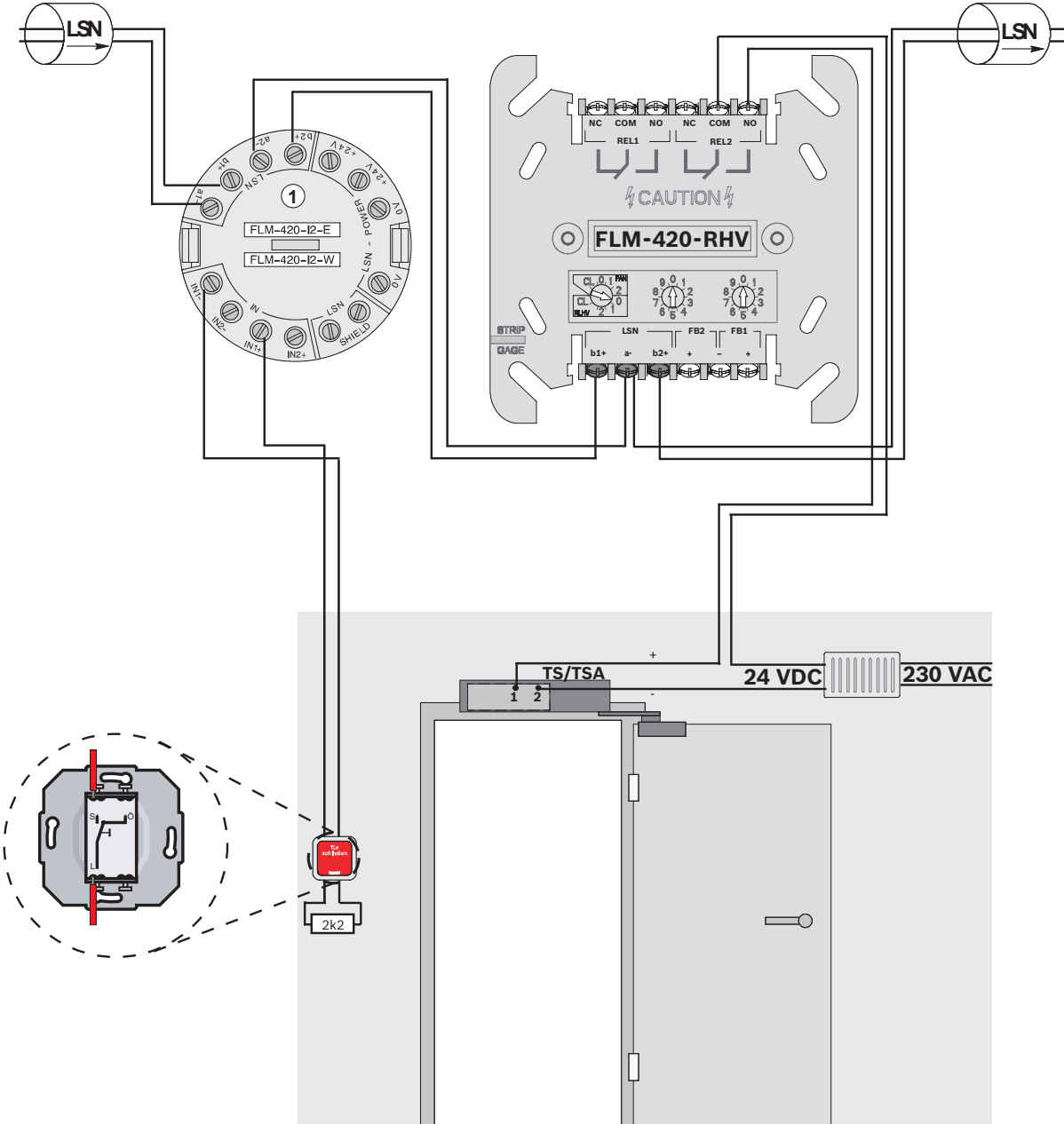
DIBT

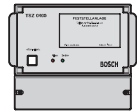
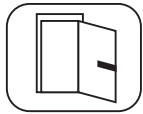




TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

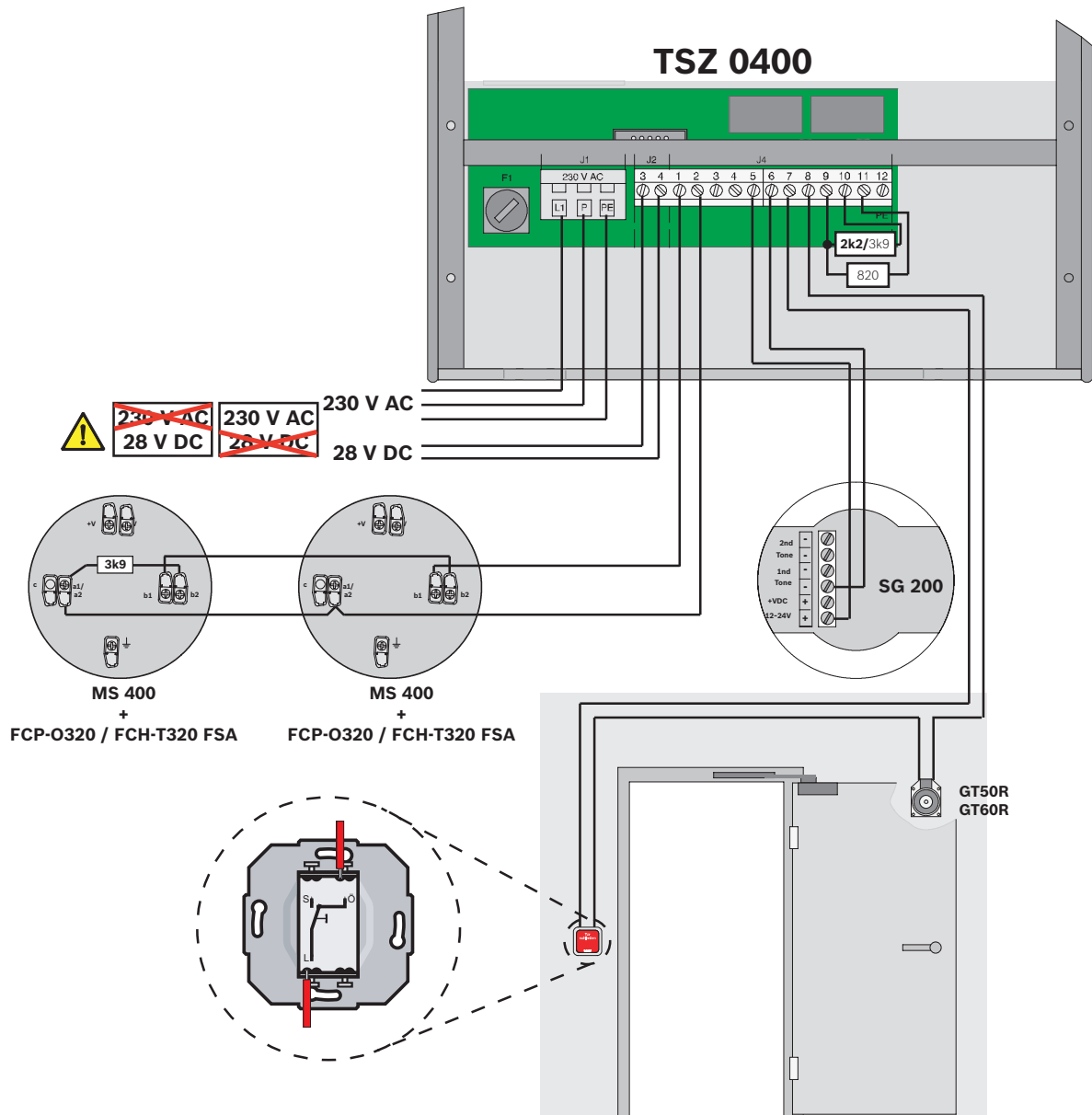
DIBT

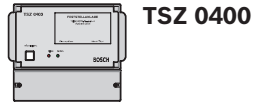




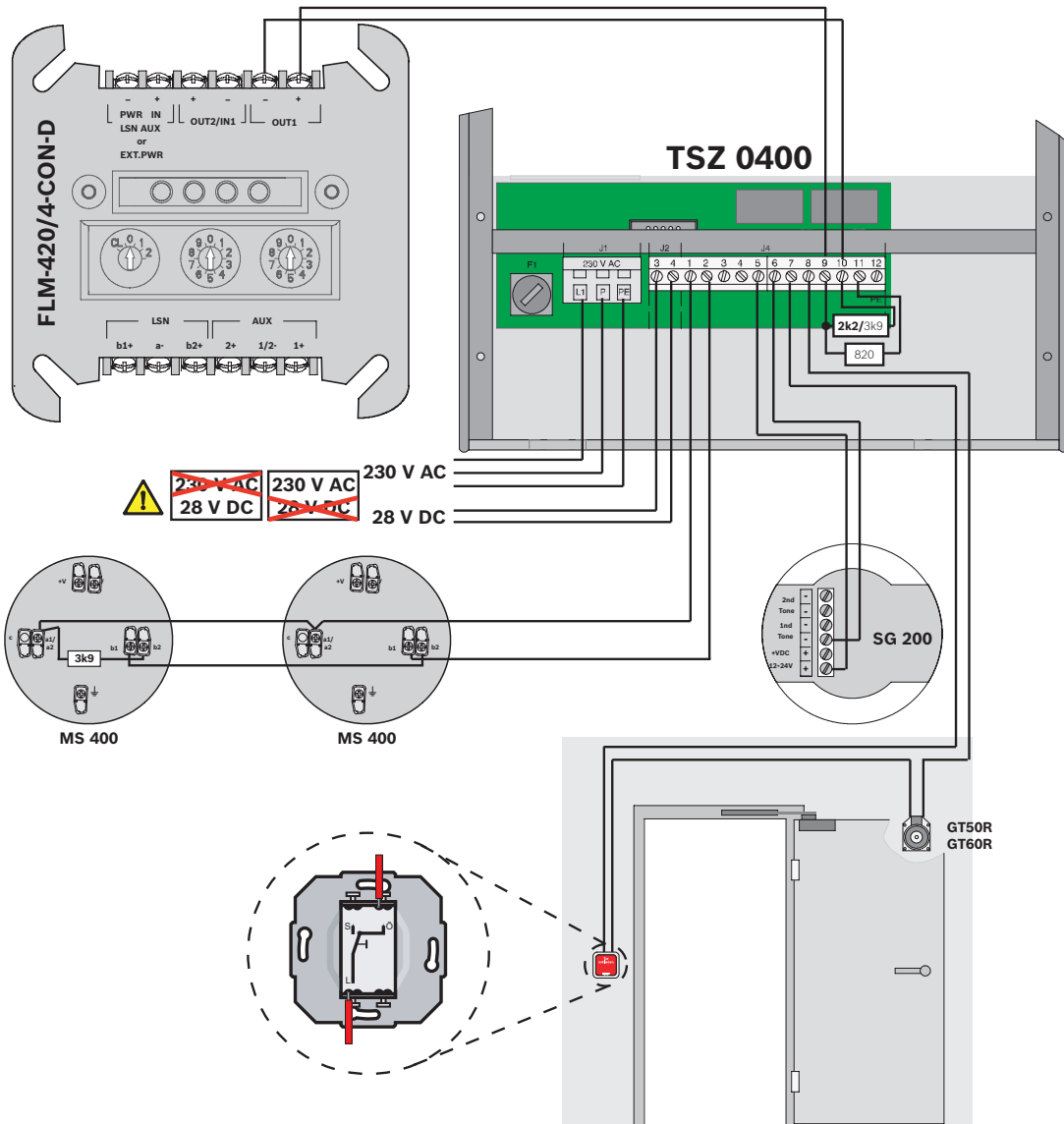
TSZ 0400

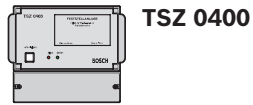
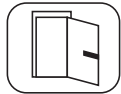
DIBT



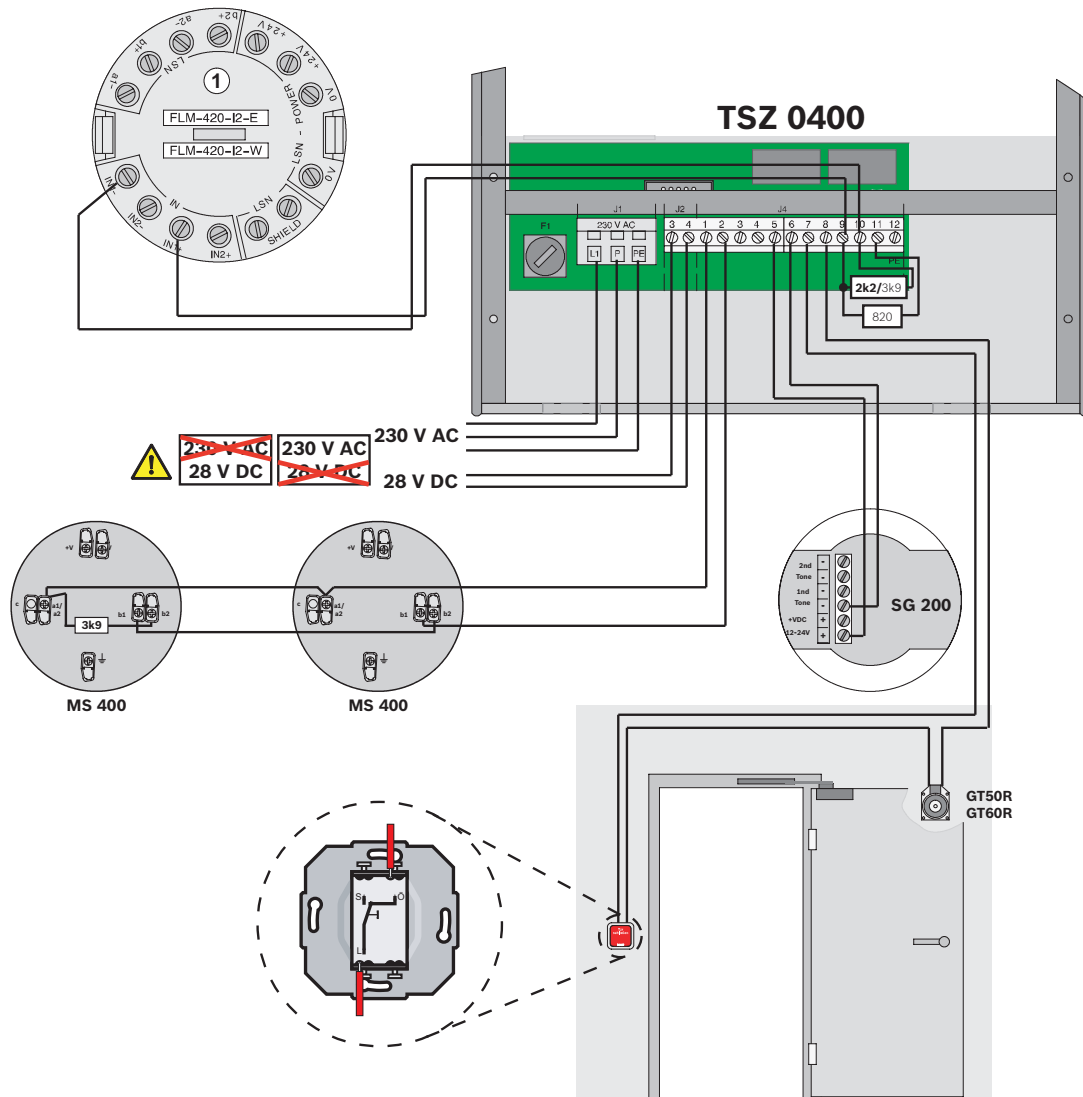


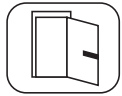
DIBT



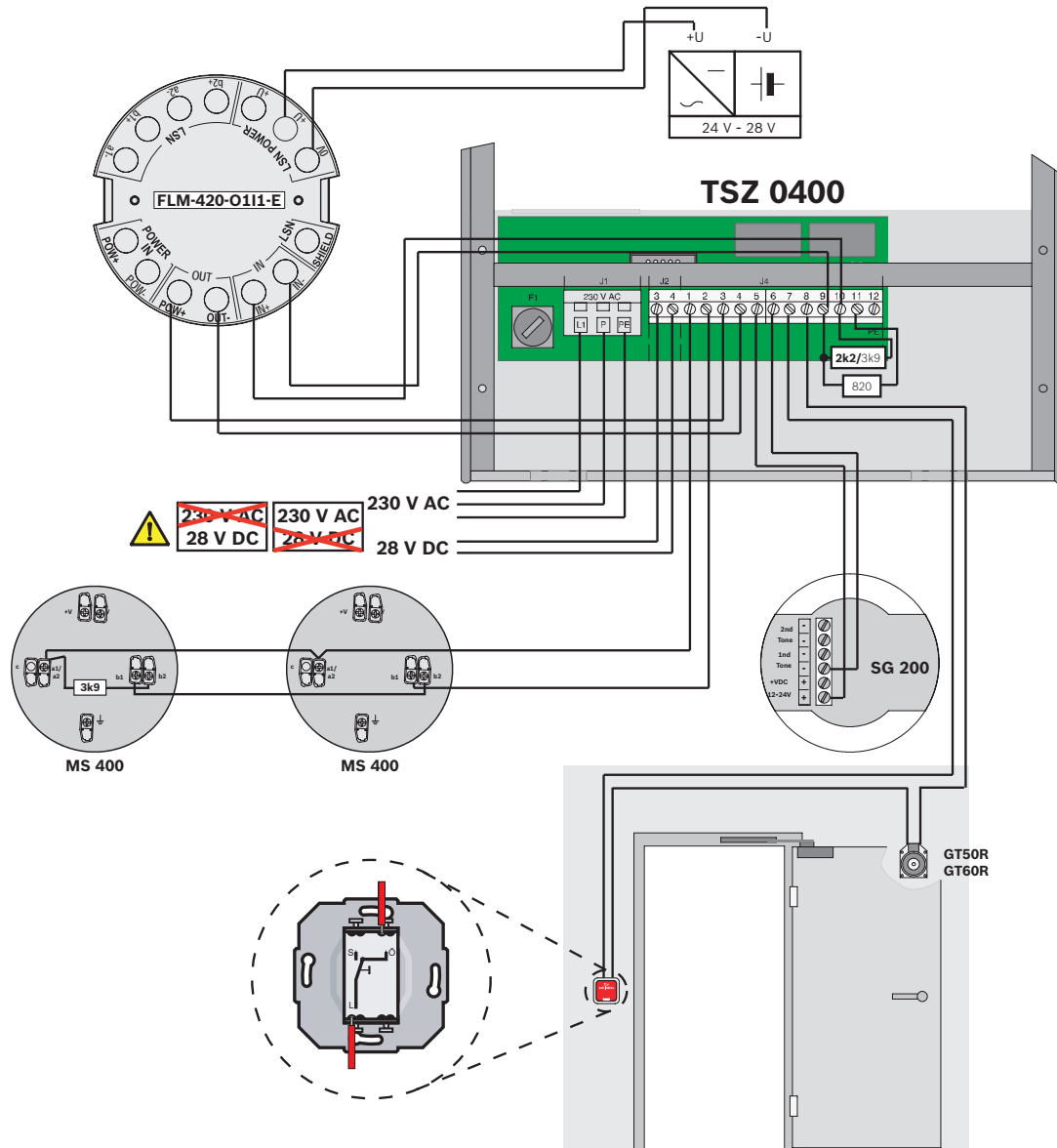


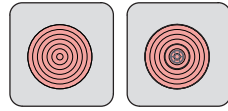
**DIBT**



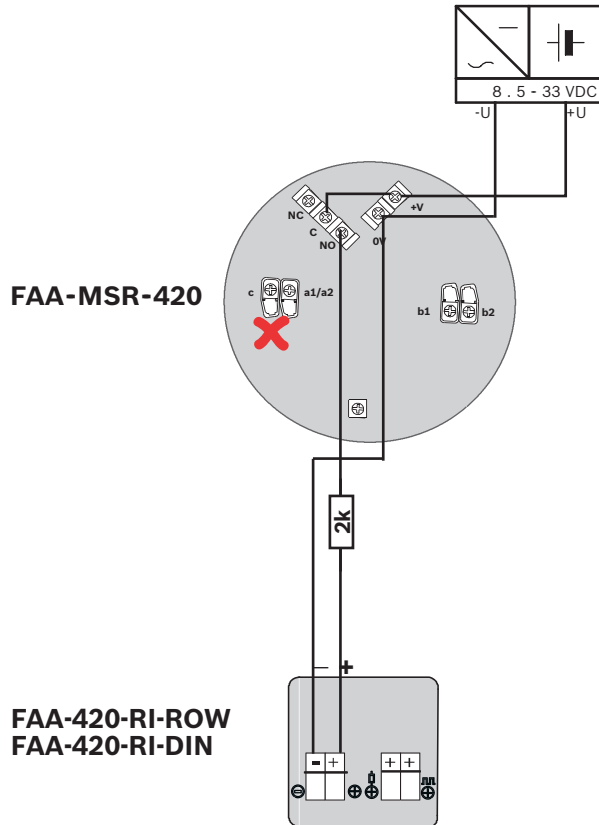
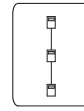


DIBT



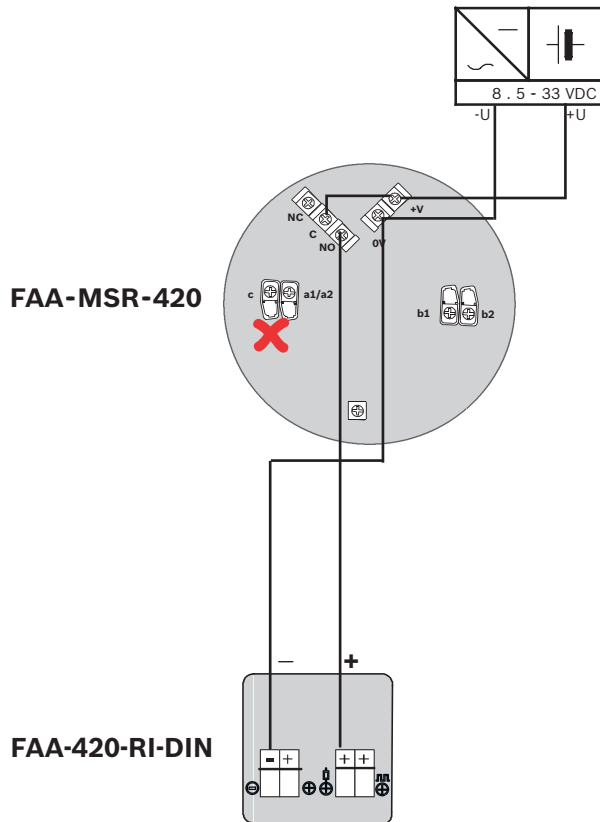
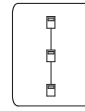


**FAA-420-RI-ROW**  
**FAA-420-RI-DIN**

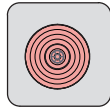




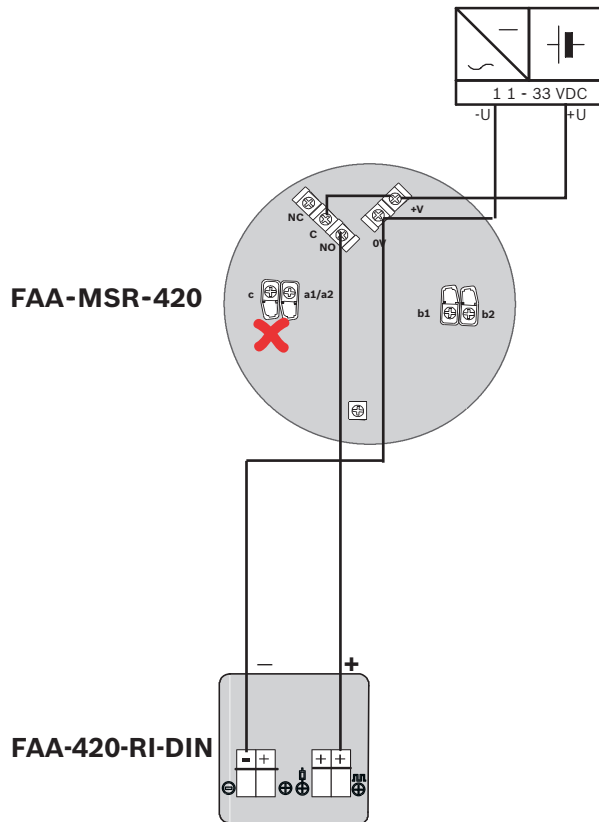
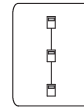
**FAA-420-RI-DIN**







FAA-420-RI-DIN



## 2.4

### Functional Modules



*BCM-000-B, page 43*

*CZM 0004 A, page 45*

*ENO 0000 A/B, page 61*

*LSN 0300 A, page 68*

*NZM 0002 A, page 106*

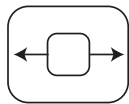
*RMH 0002 A, page 119*

*IOS 0020 A, page 120*

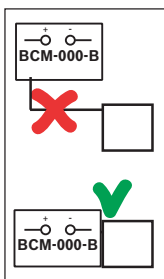
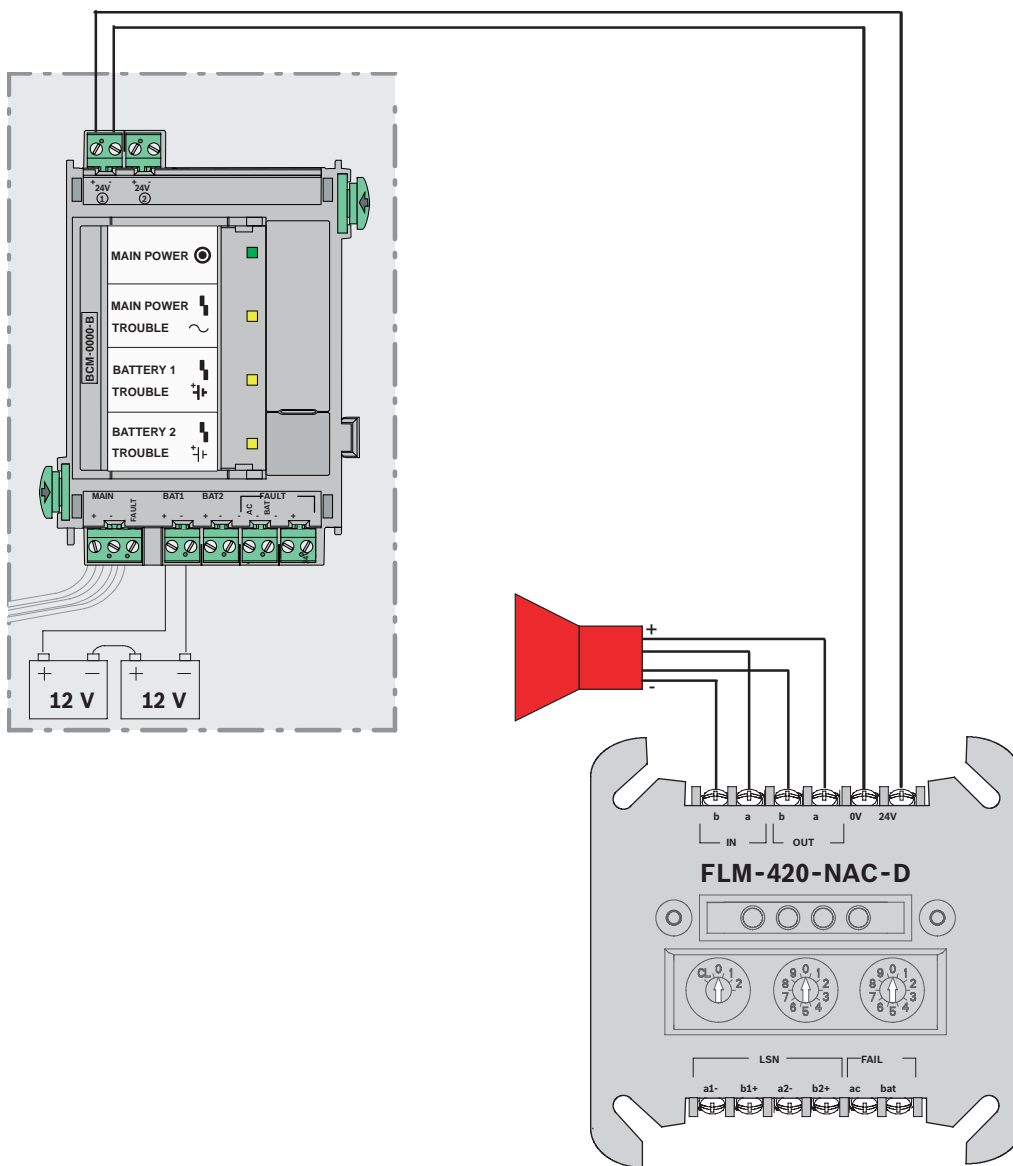
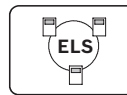
*FPE-5000-UGM, page 122*

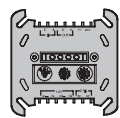
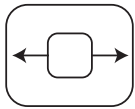
2.4.1

BCM-000-B

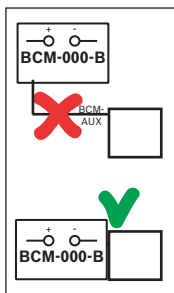
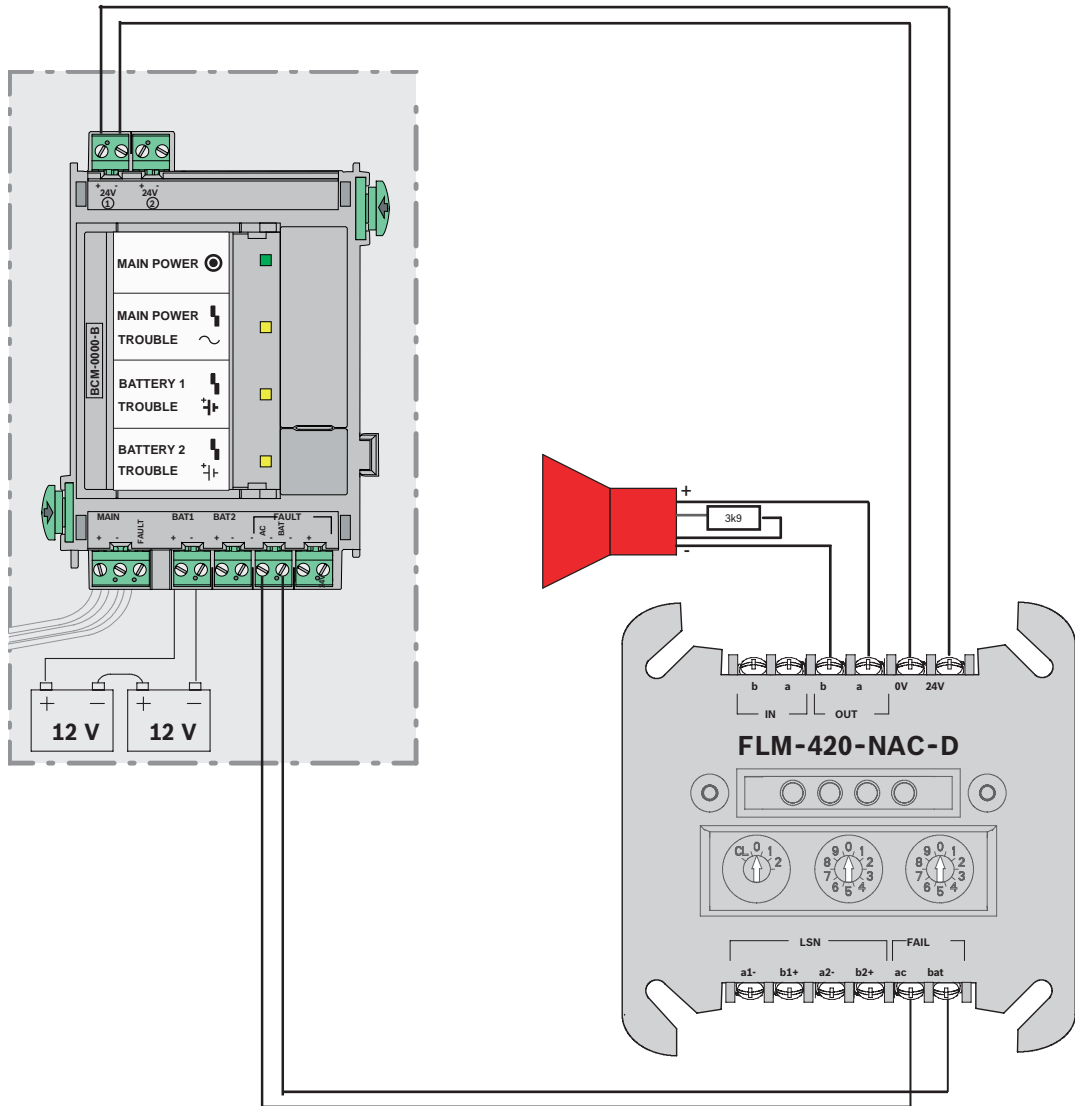
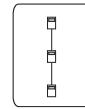


FLM-420-NAC-D





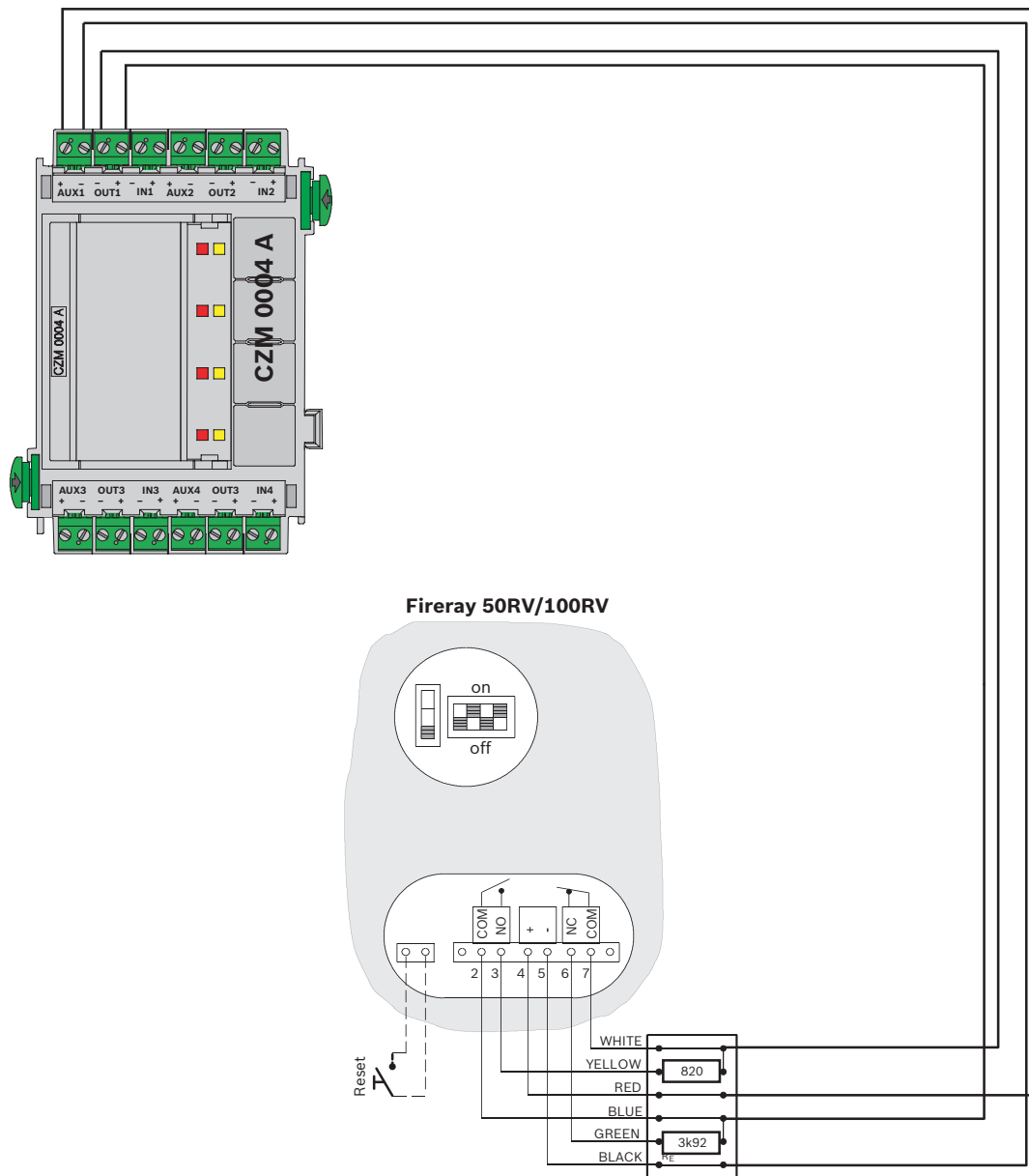
FLM-420-NAC-D

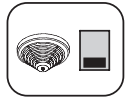


### 2.4.2 CZM 0004 A



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



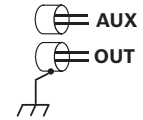
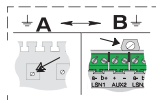
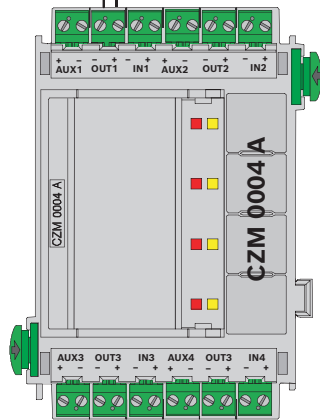


**FIRERAY3000**

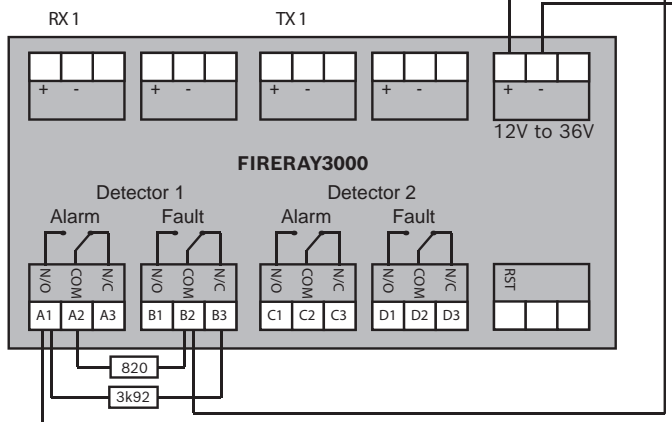
1 x



BCM-0000-B  
LSN 0300 A  
LSN 1500 A



**Reset action**

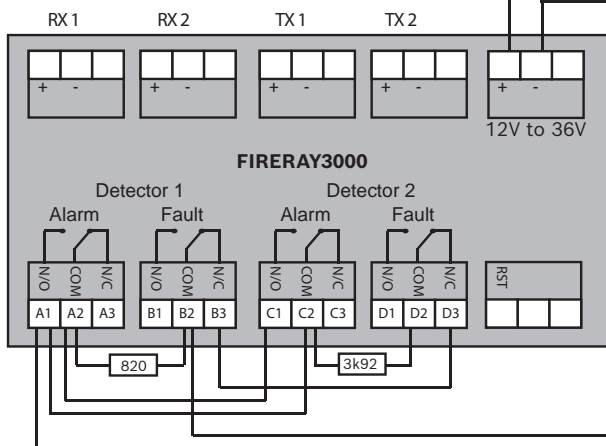
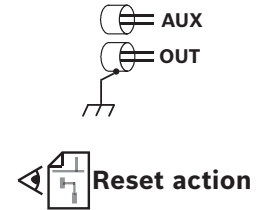
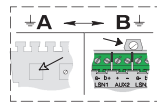
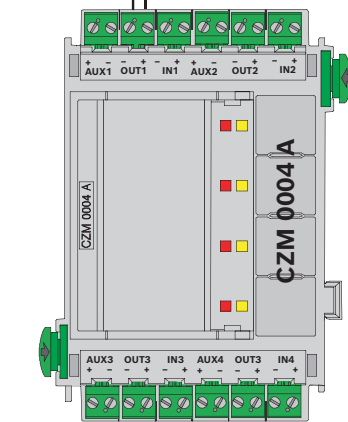




**FIRERAY3000**  
2 x **OUT1**



BCM-0000-B  
LSN 0300 A  
LSN 1500 A

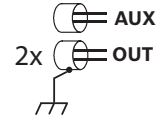
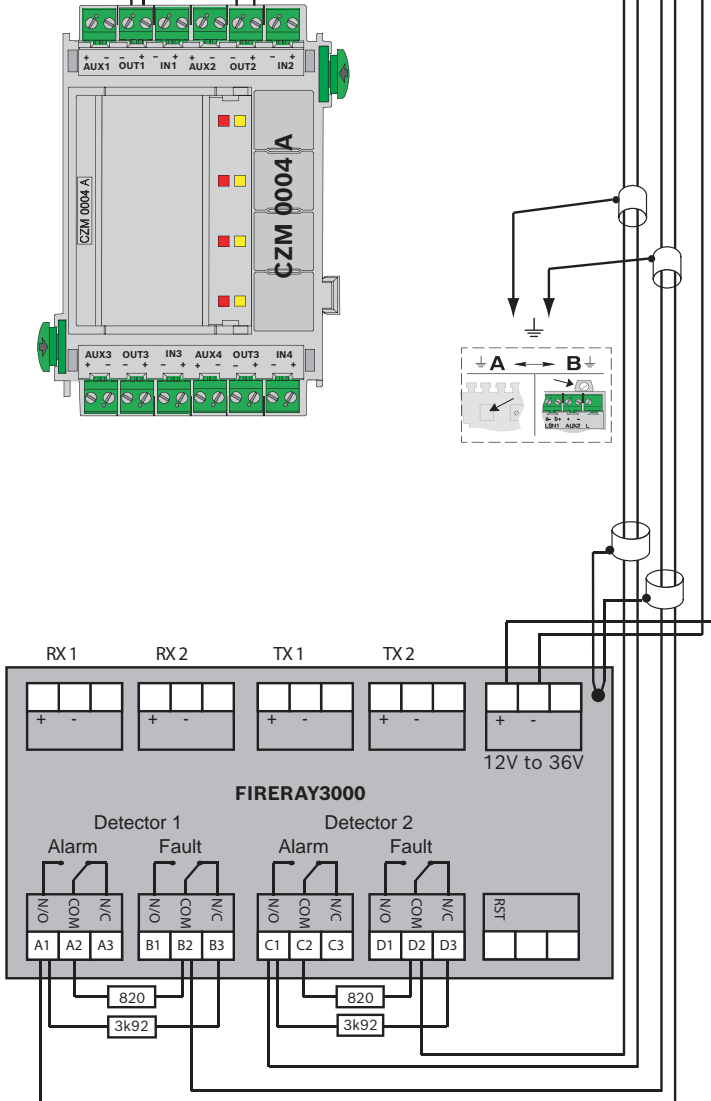




**FIRERAY3000**  
2 x **OUT1+2**



BCM-0000-B  
LSN 0300 A  
LSN 1500 A



**Reset action**



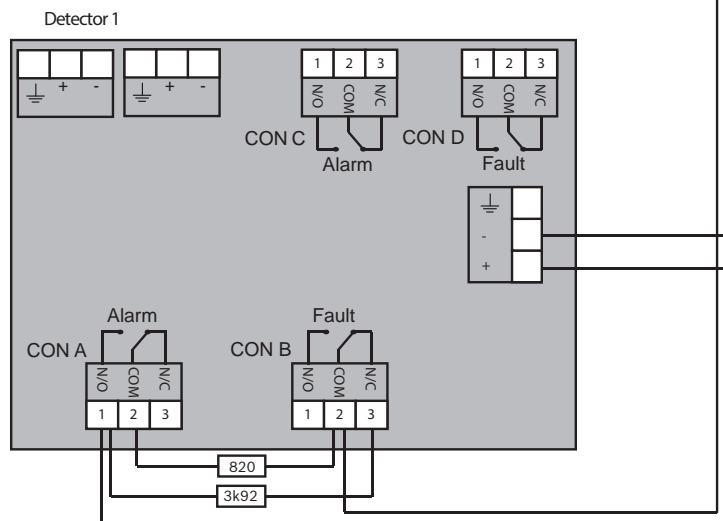
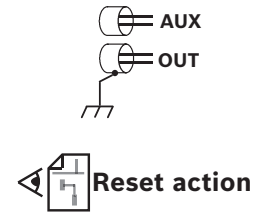
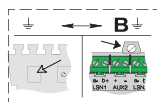
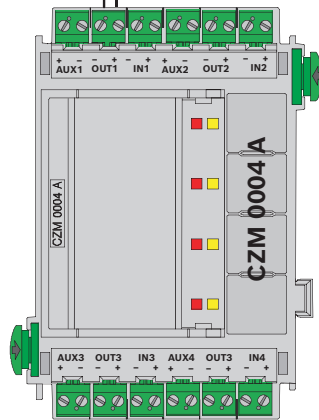


**FIRERAY5000**

1 x 



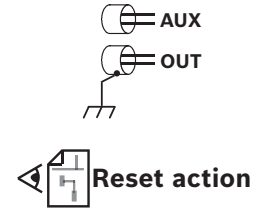
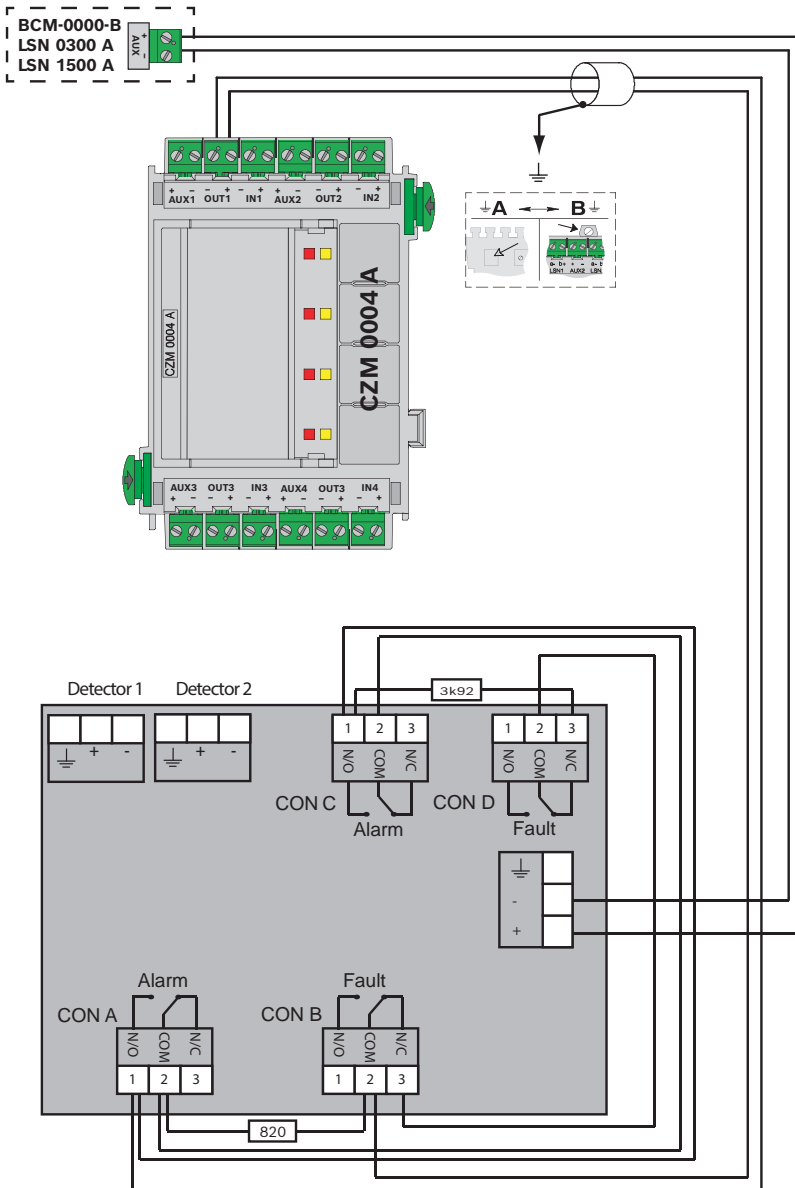
BCM-0000-B  
LSN 0300 A  
LSN 1500 A





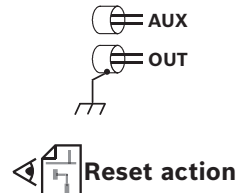
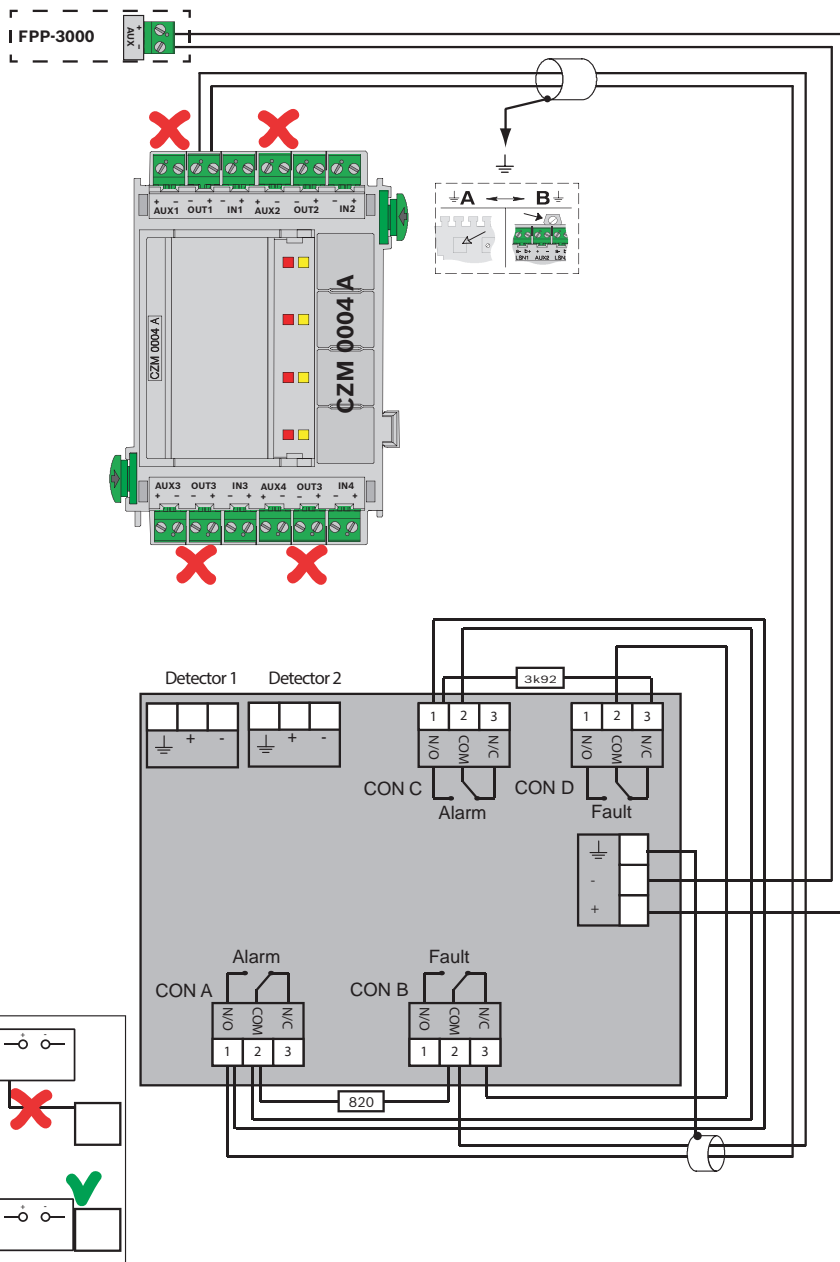
**FIRERAY5000**

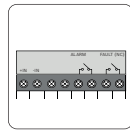
**2 x OUT1**



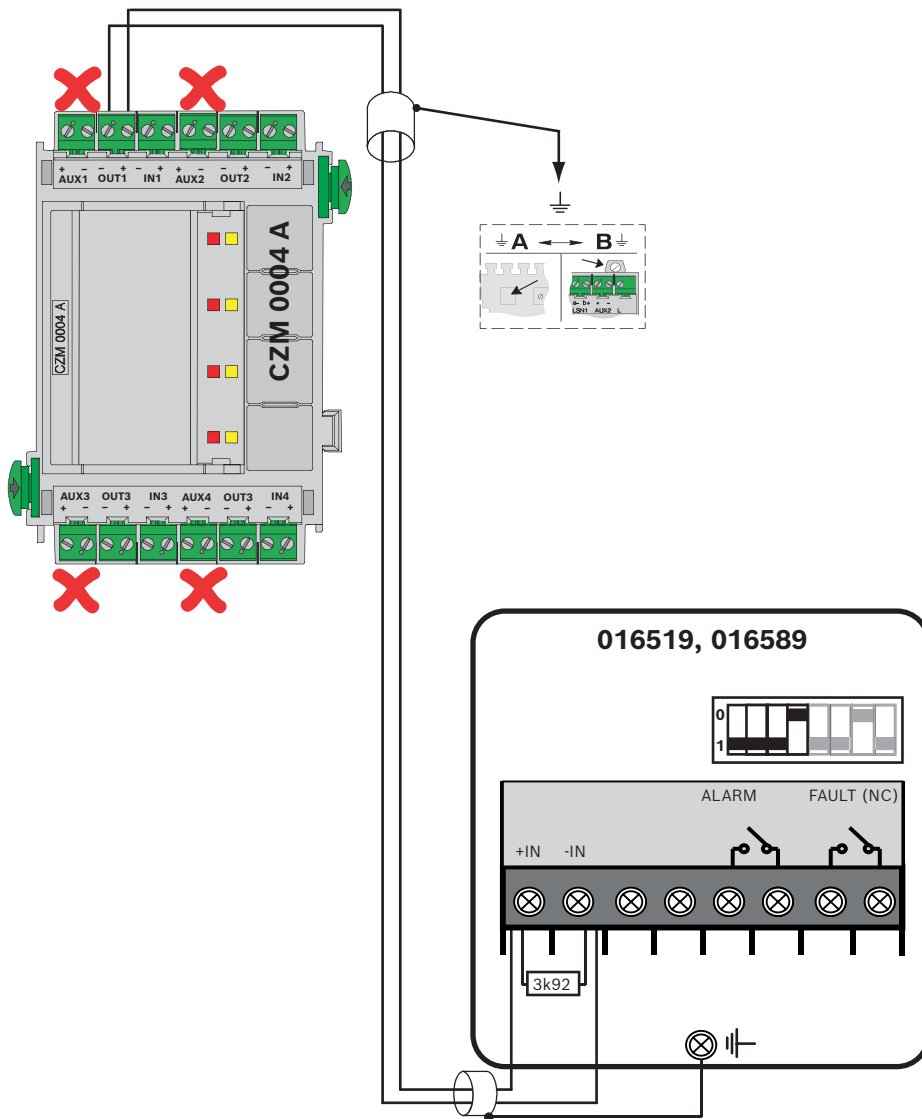
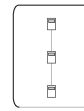


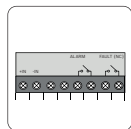
**FIRERAY5000**  
2 x **OUT1**



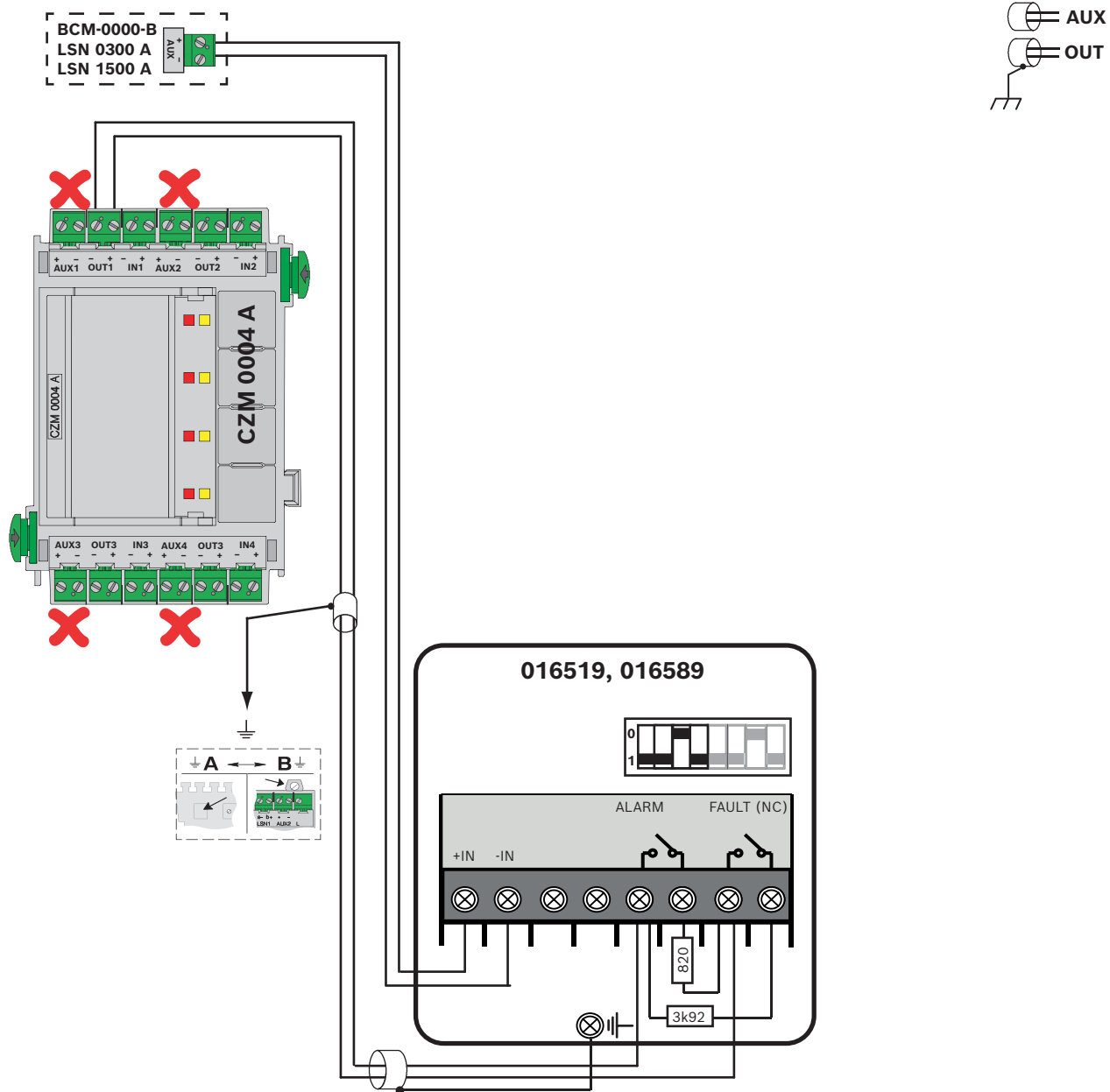
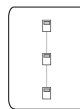


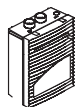
**016519, 016589  
IR3 Flame Detector**



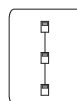


**016519, 016589  
IR3 Flame Detector**

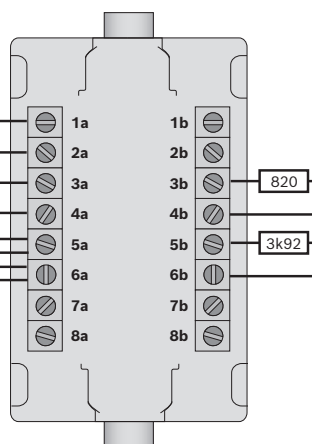
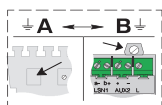
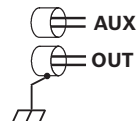
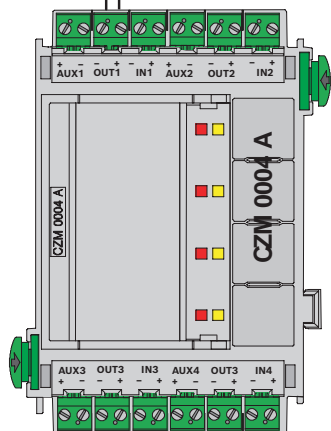


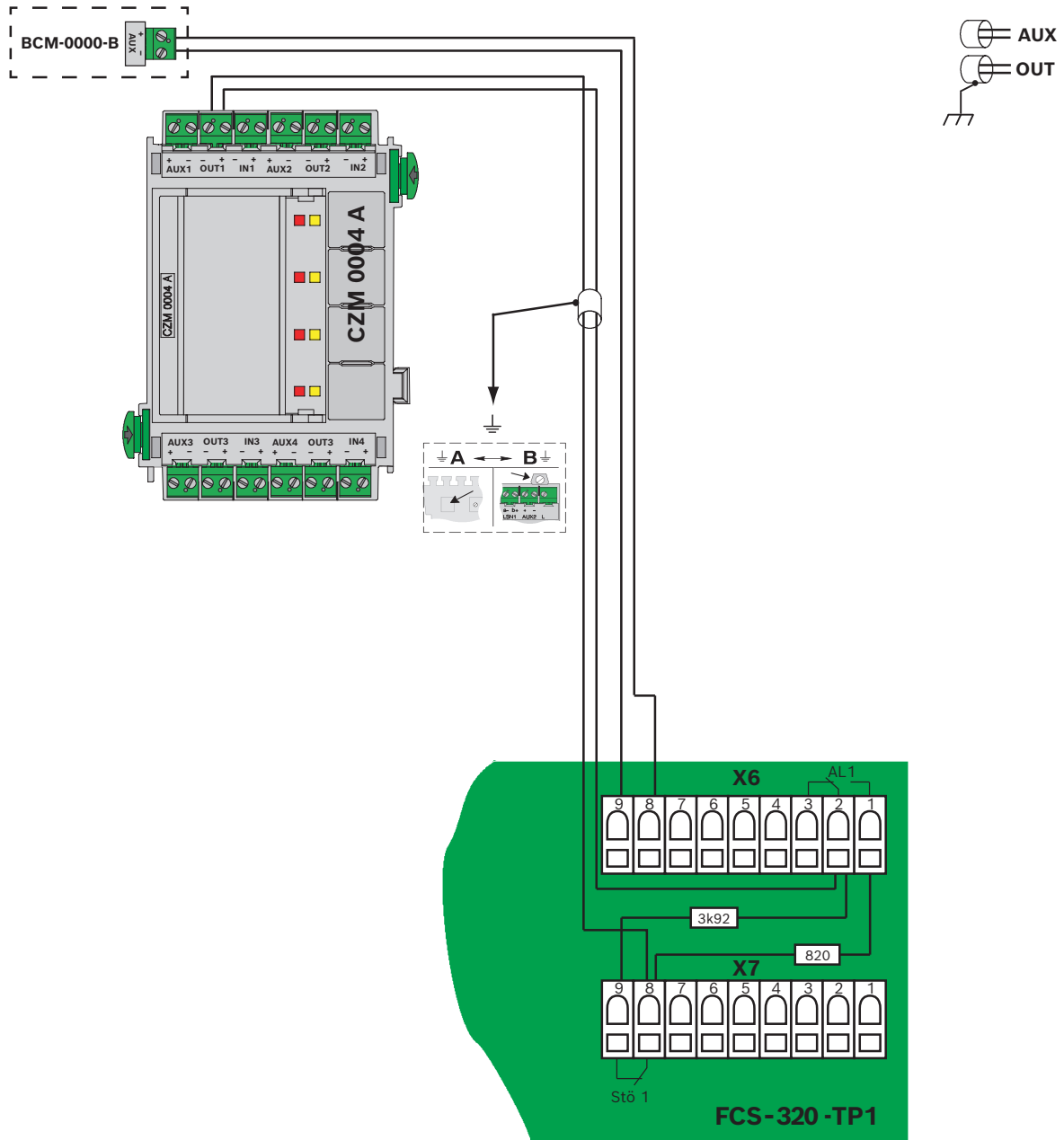
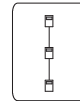
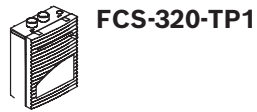


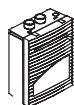
FCS-320-TM Series



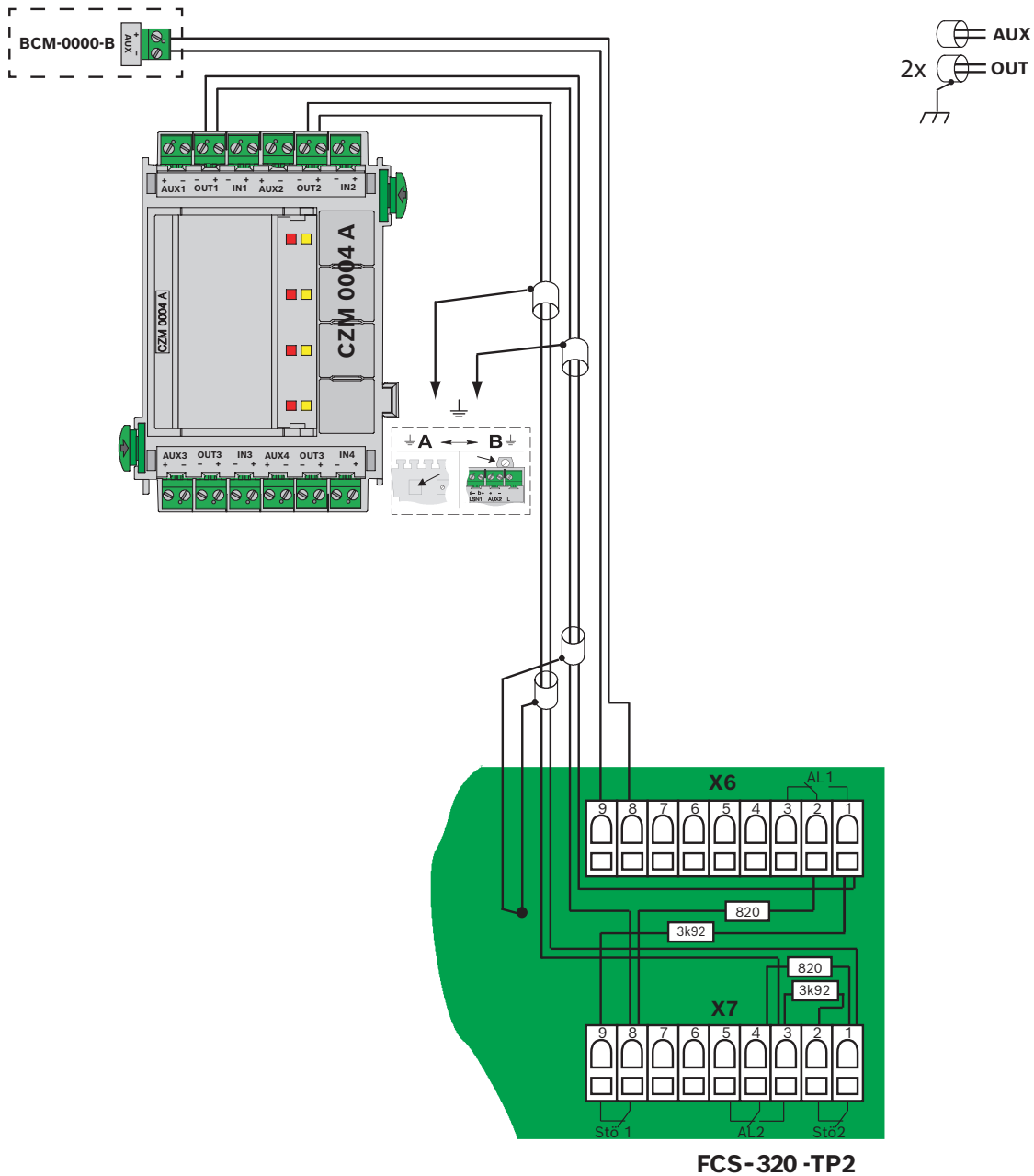
BCM-0000-B  
LSN 0300 A  
LSN 1500 A







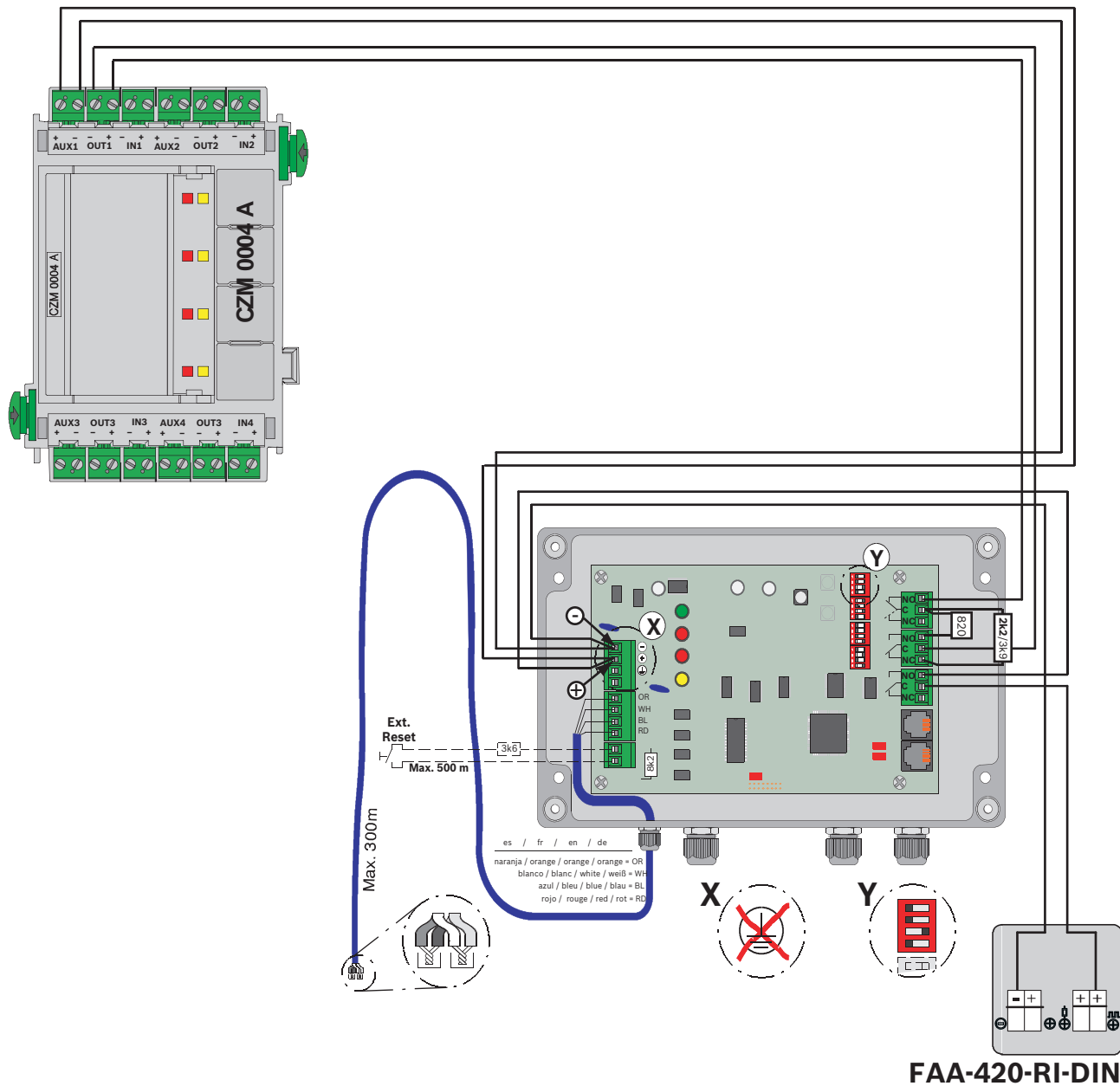
FCS-320-TP2





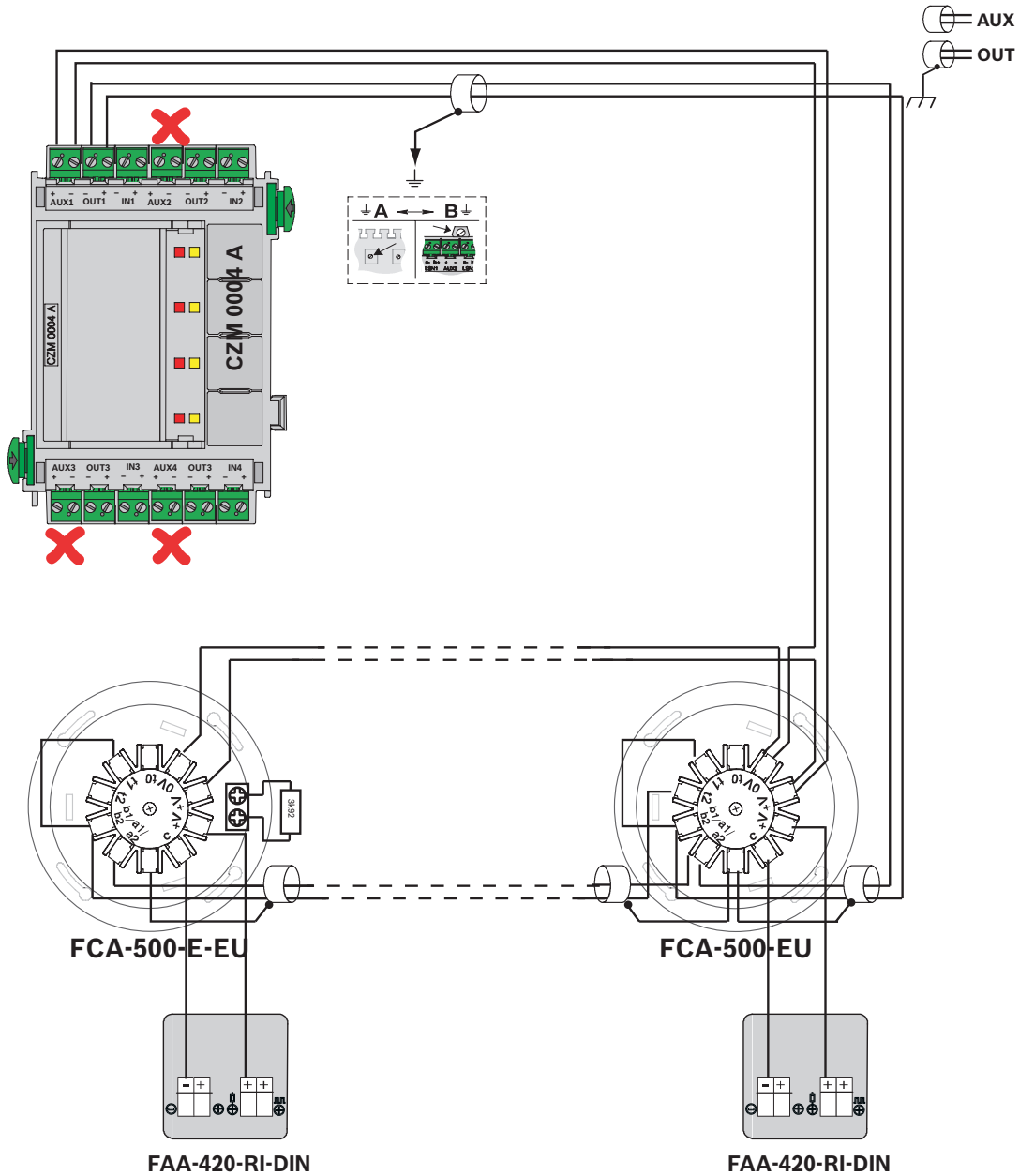


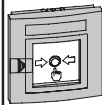
FCS-LWM-1



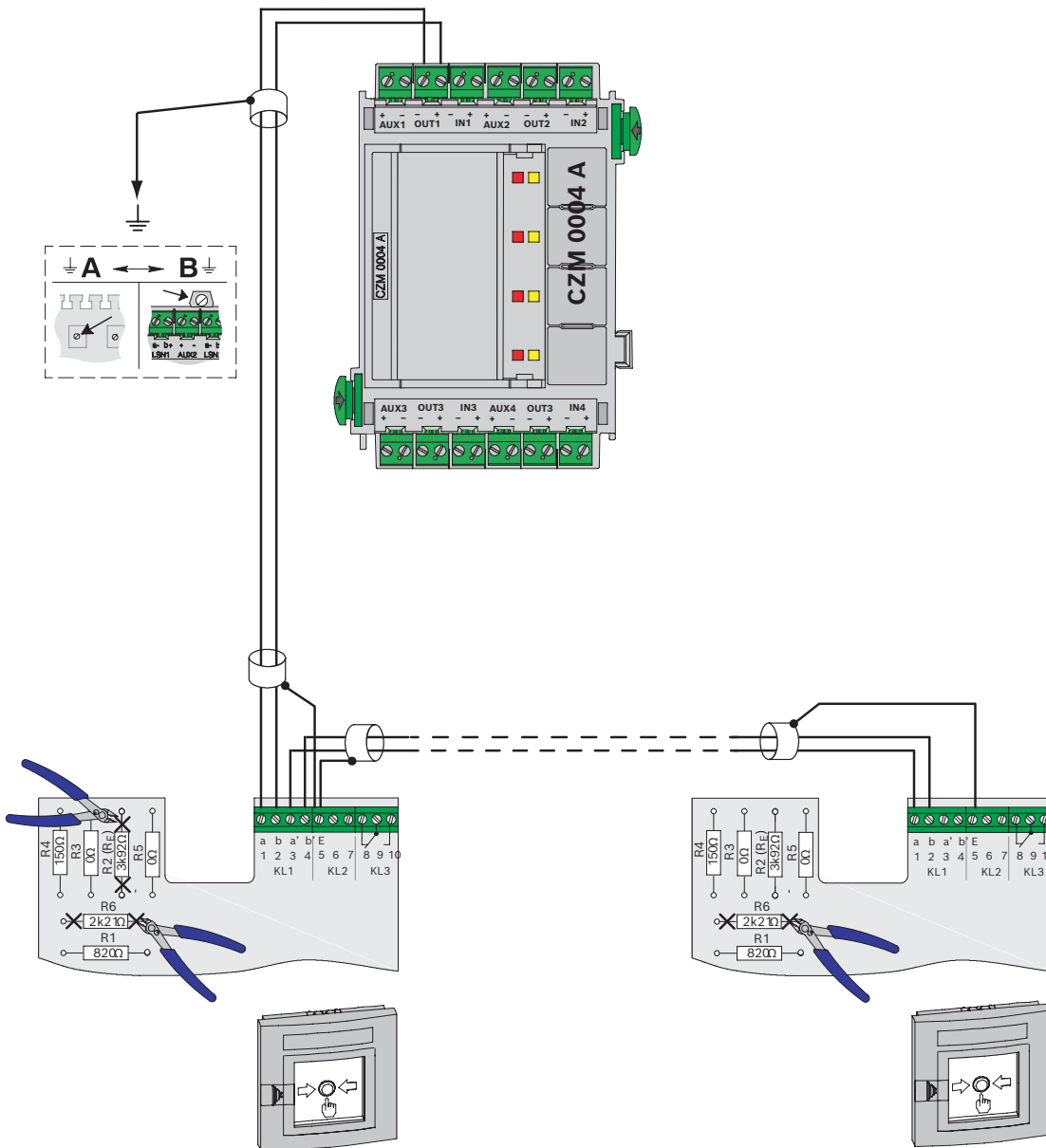
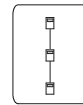


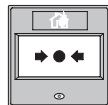
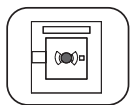
FCA-500-EU  
 FCP-O 500  
 FCP-O 500-P  
 FCP-OC 500  
 FCP-OC 500-P



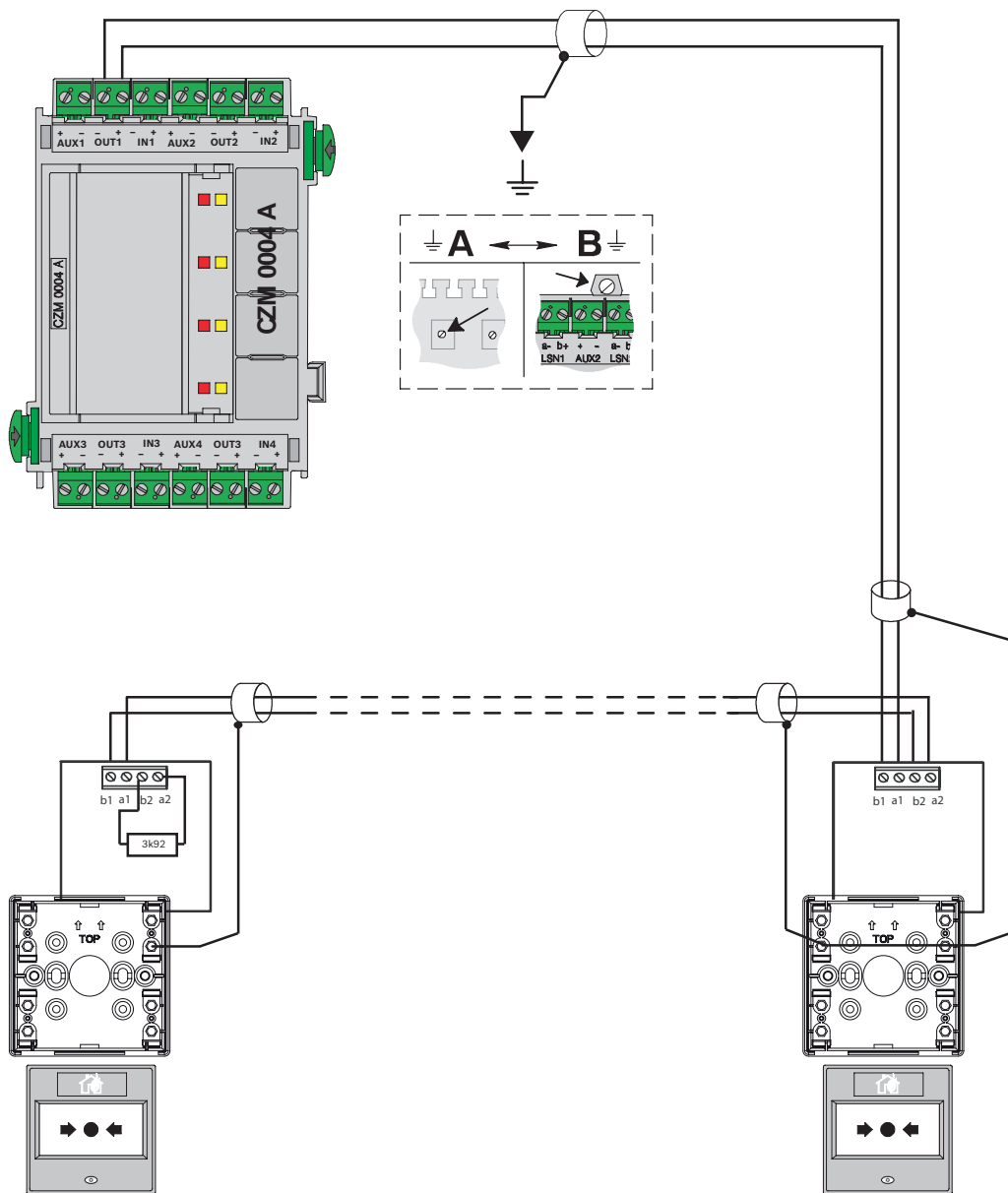
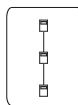


**FMC-120-DKM-G-R**  
**FMC-120-DKM-H-R**  
**FMC-120-DKM-G-B**  
**FMC-120-DKM-H-B**  
**FMC-120-DKM-G-Y**





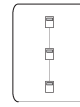
**FMC-300RW-GSGBU**  
**FMC-300RW-GSRBU**  
**FMC-300RW-GSGRD**  
**FMC-300RW-GSRRD**  
**FMC-300RW-GSGYE**  
**FMC-300RW-GSRYE**



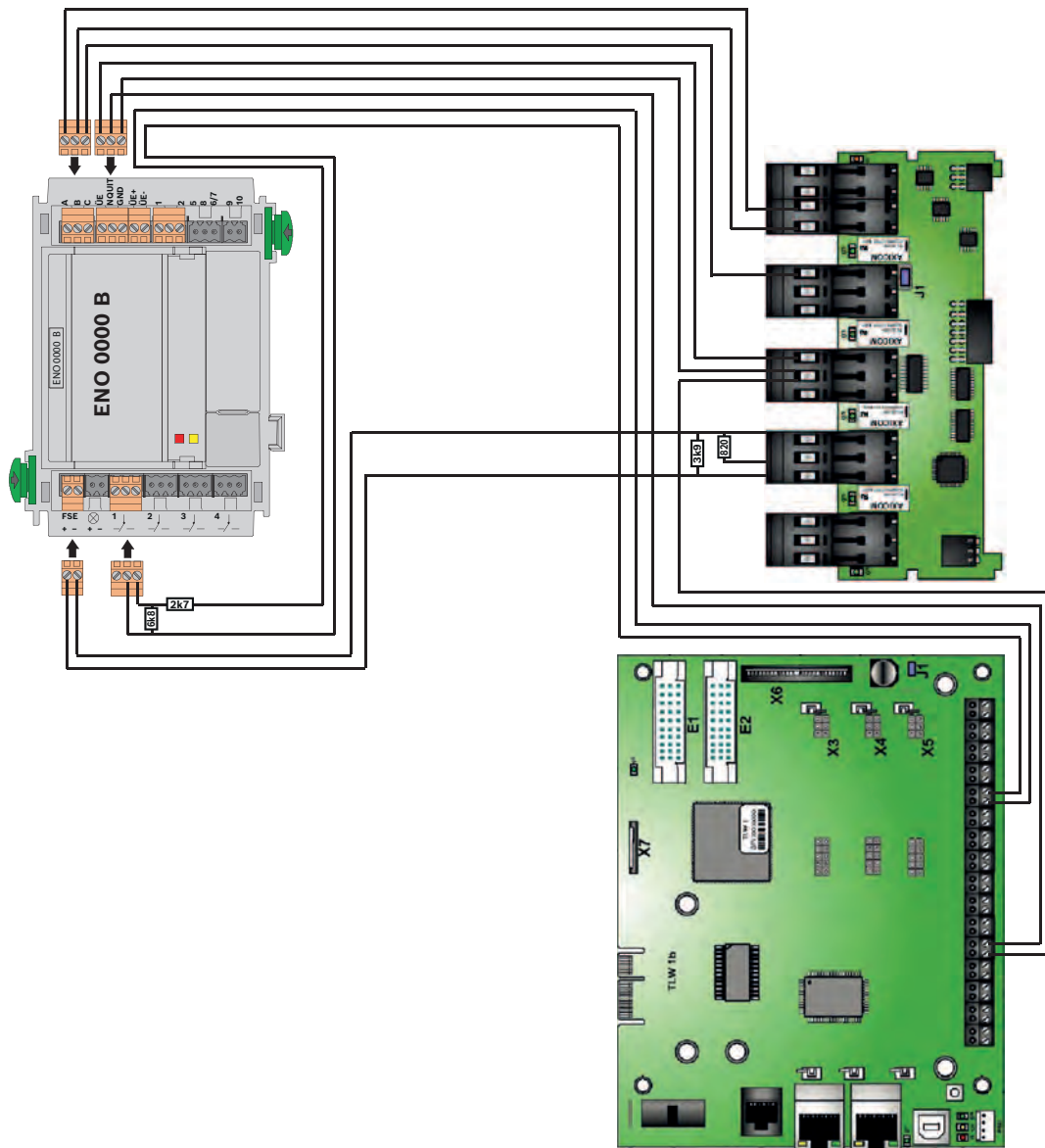
### 2.4.3 ENO 0000 A/B

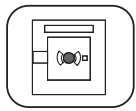


AT5000 IP/GPRS

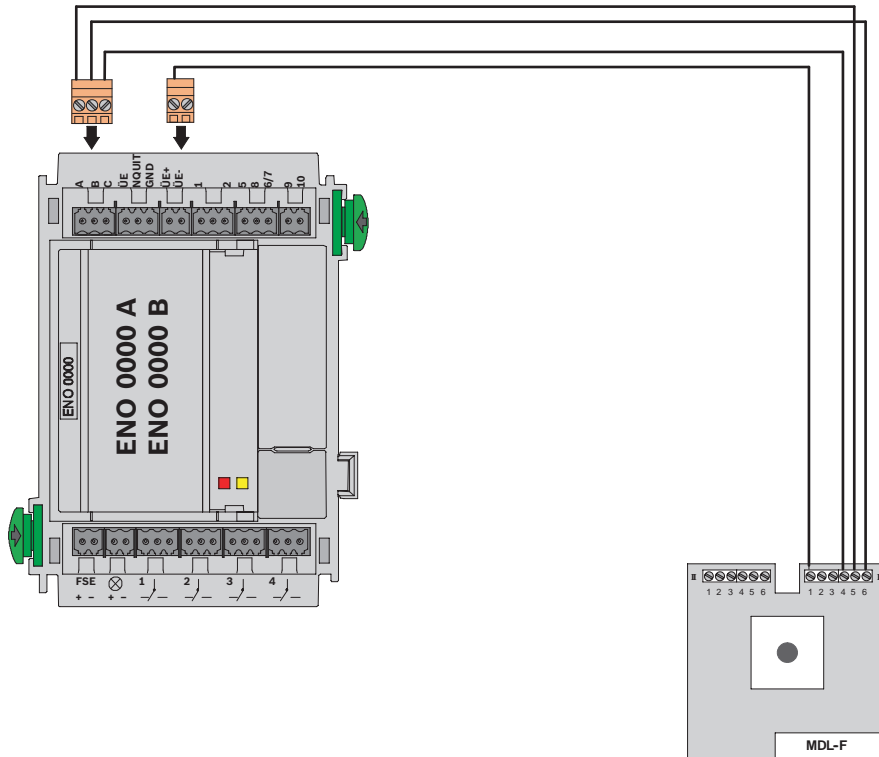


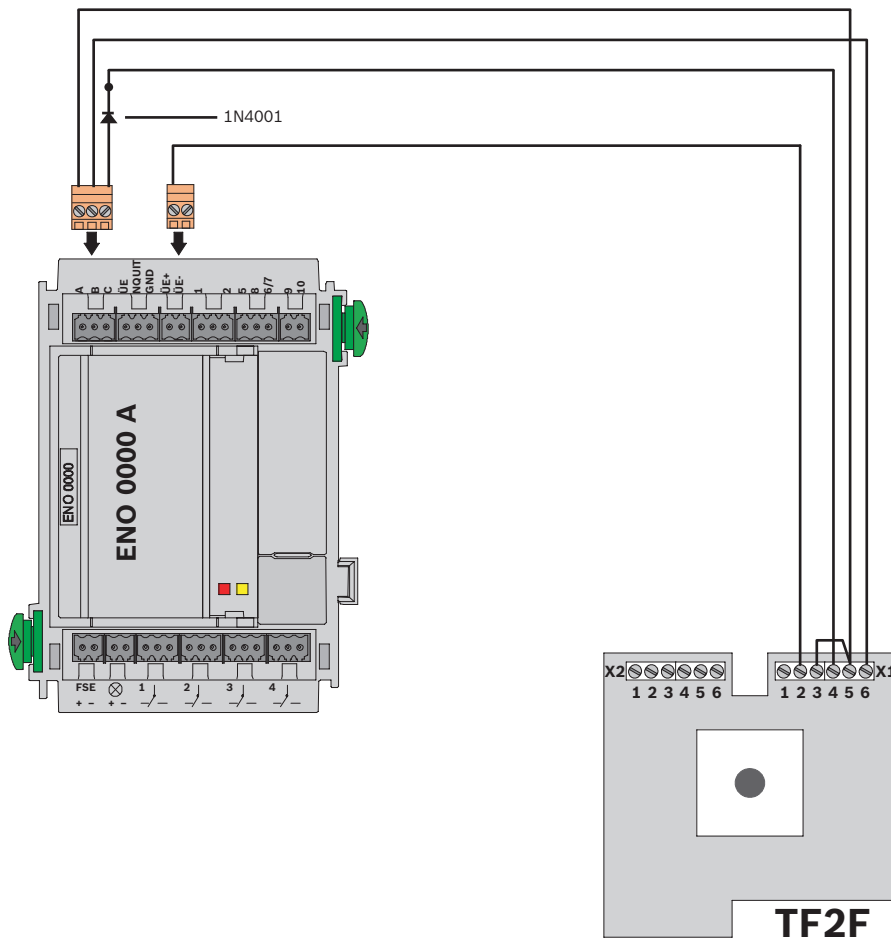
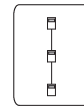
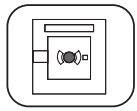
EN 54-2

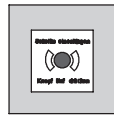
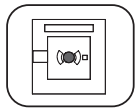




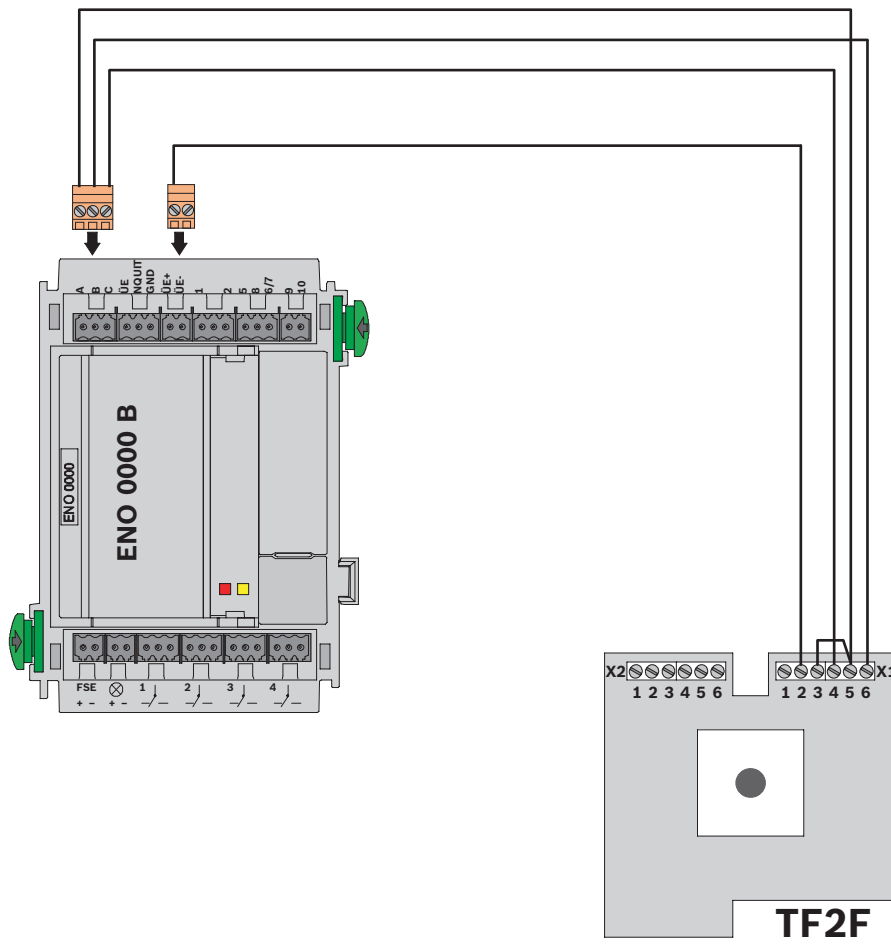
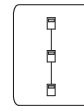
**MDL-F**



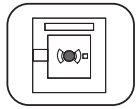




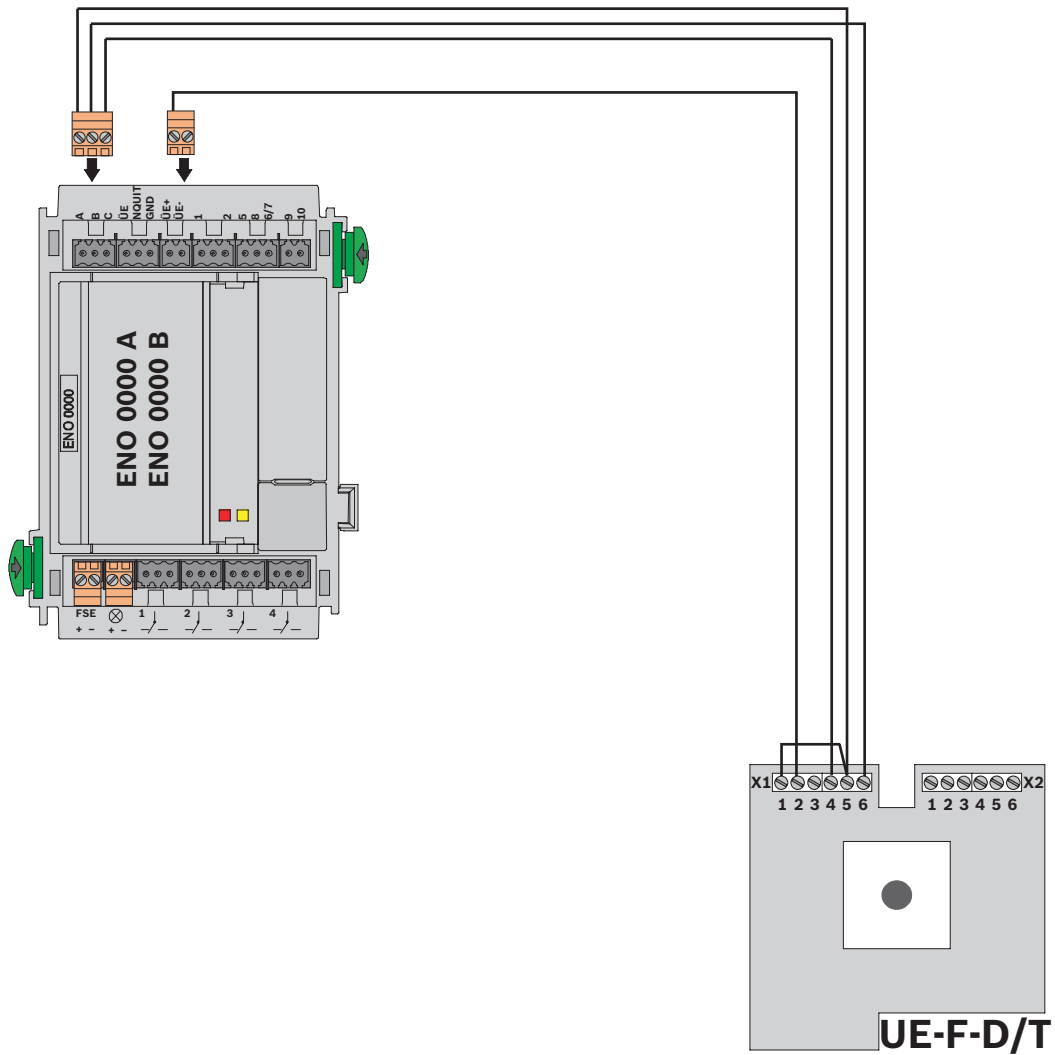
TF2F

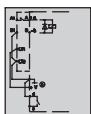




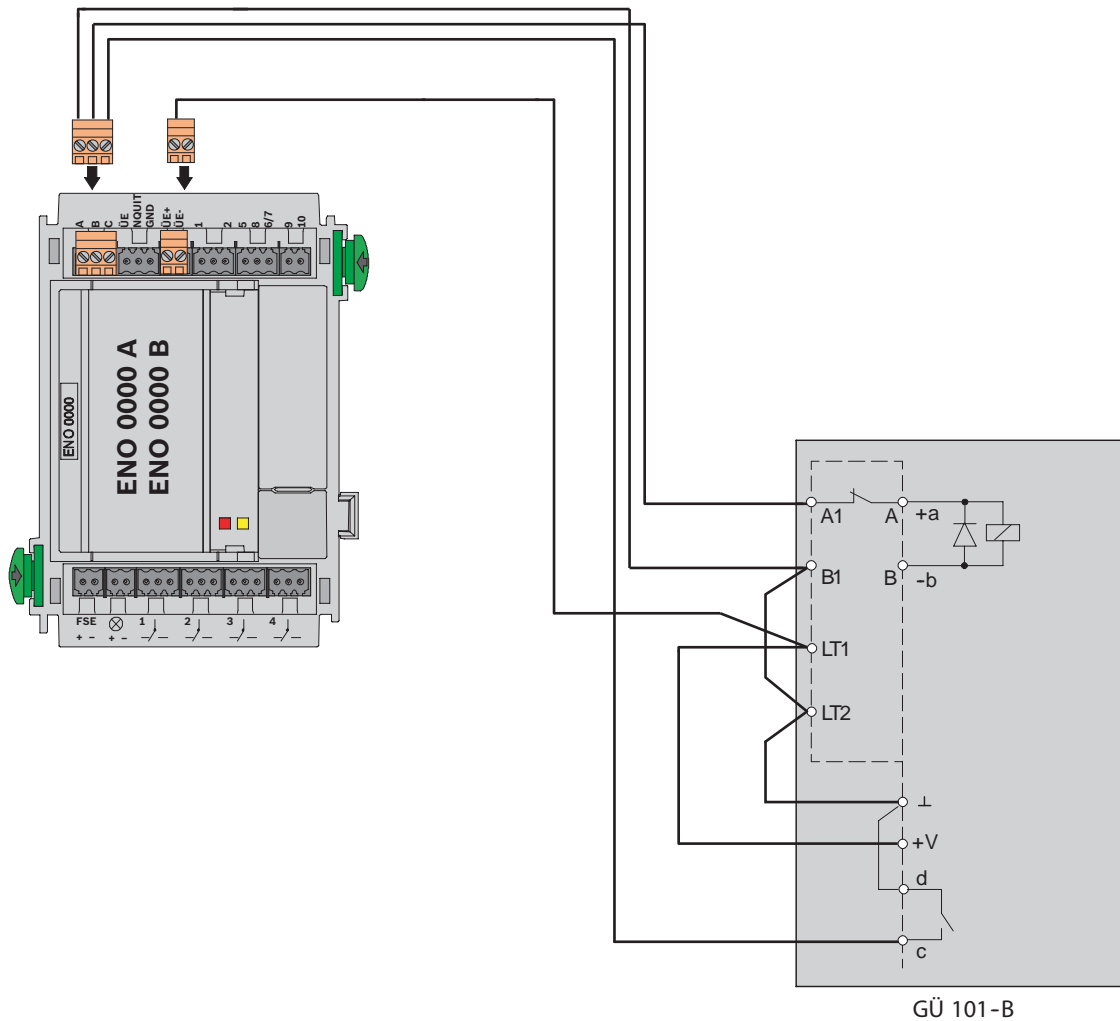
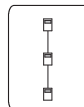


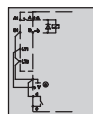
**UE-F-D/T**



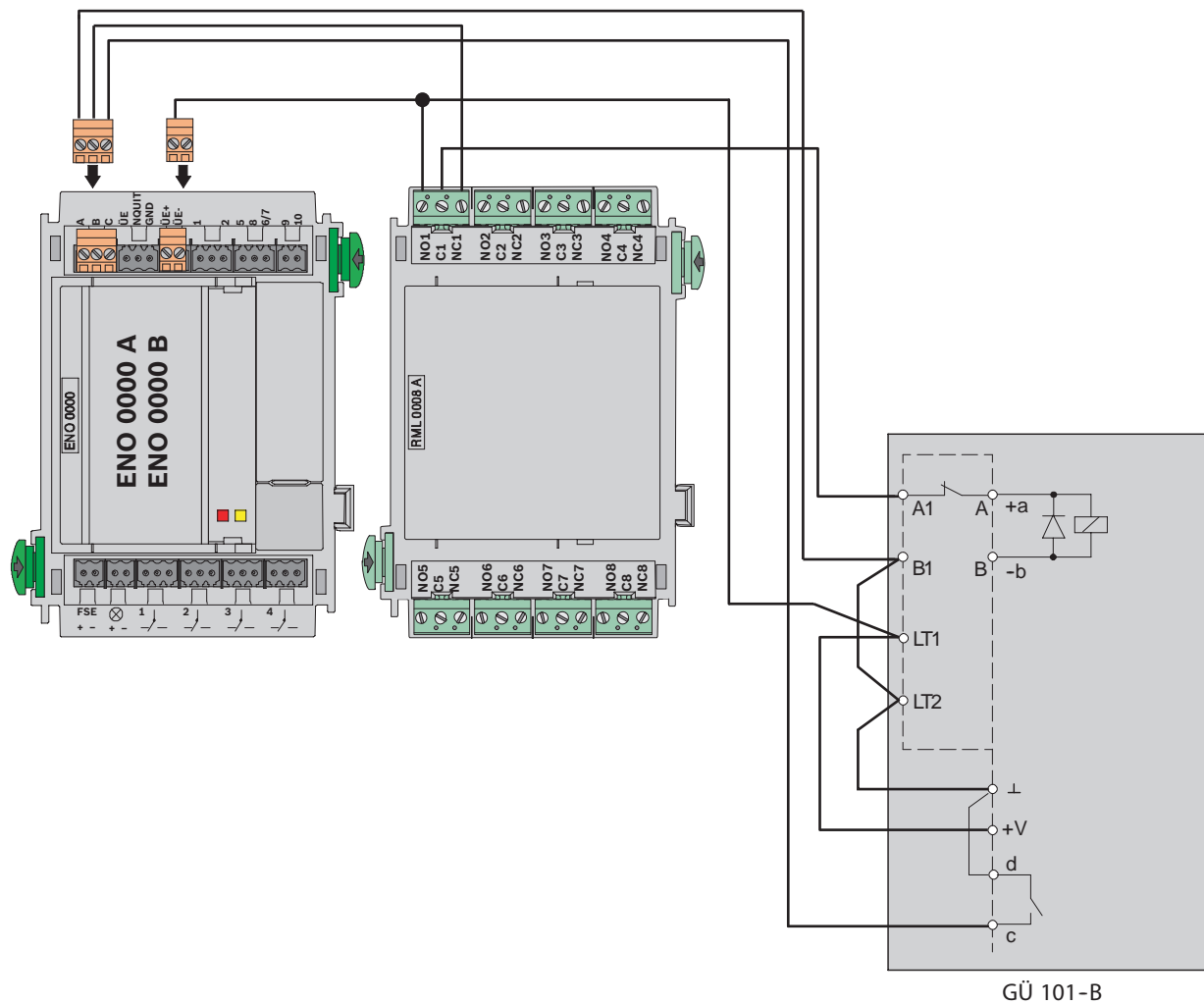
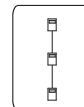


**GÜ 101-B**





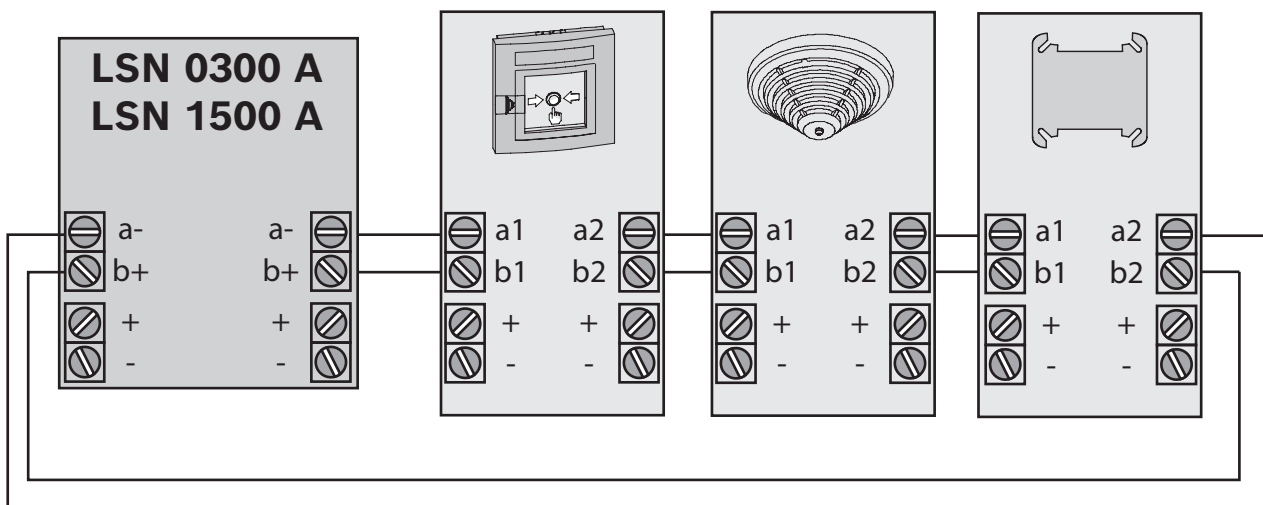
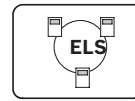
**GÜ 101-B**

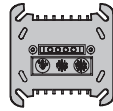
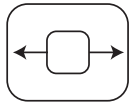


GÜ 101-B

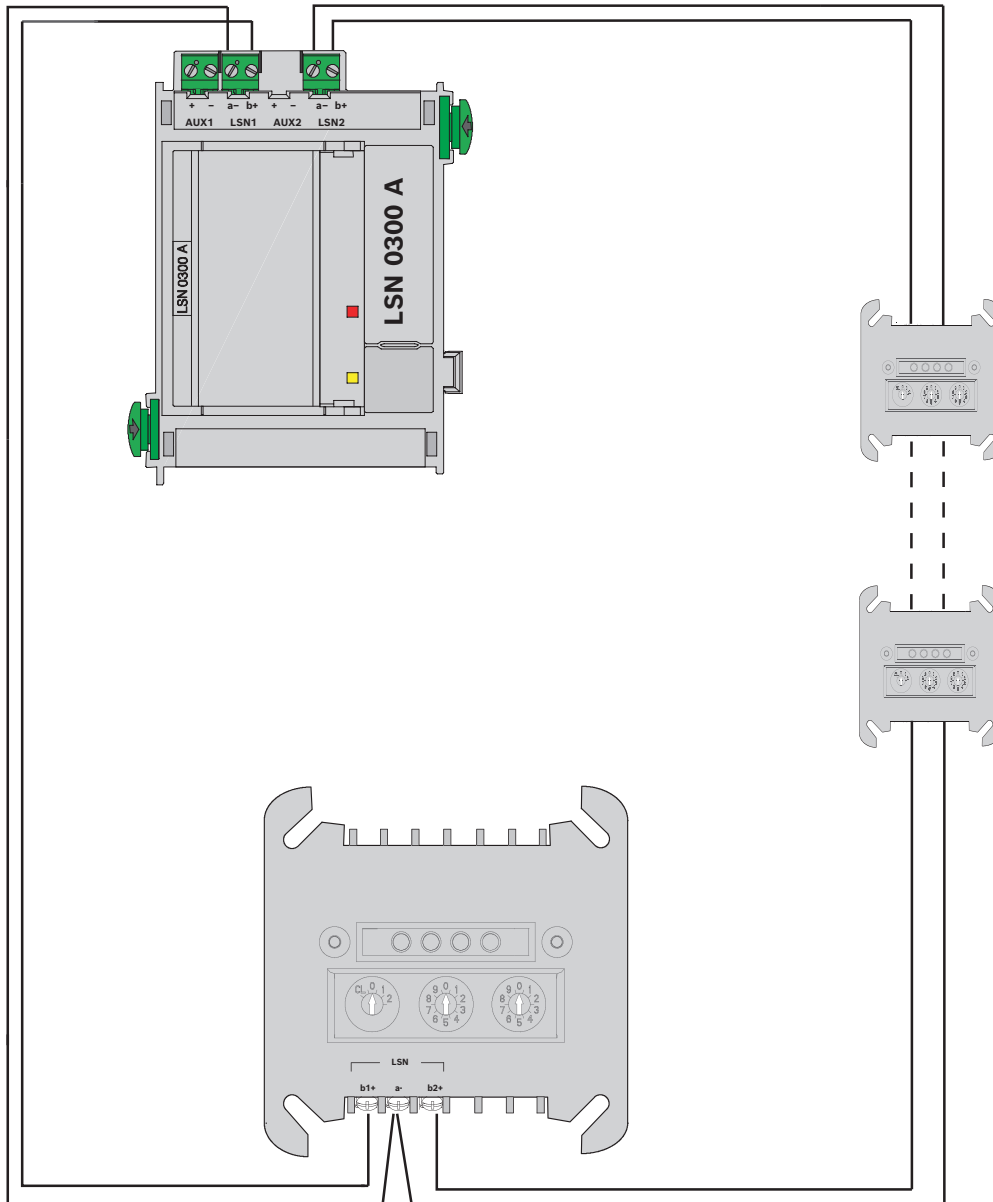
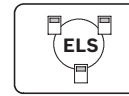
2.4.4

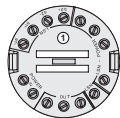
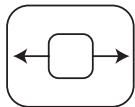
LSN 0300 A



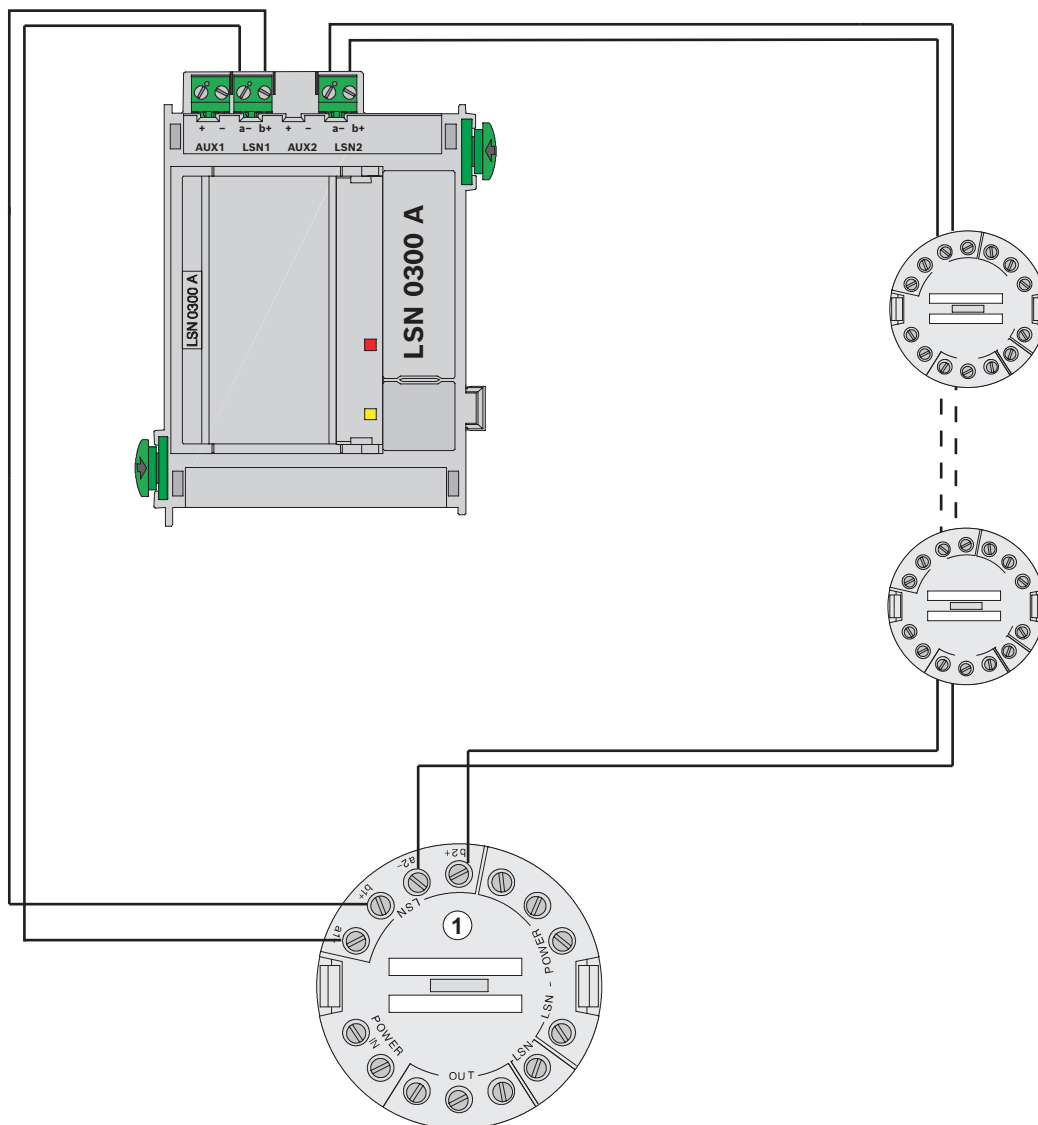
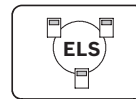


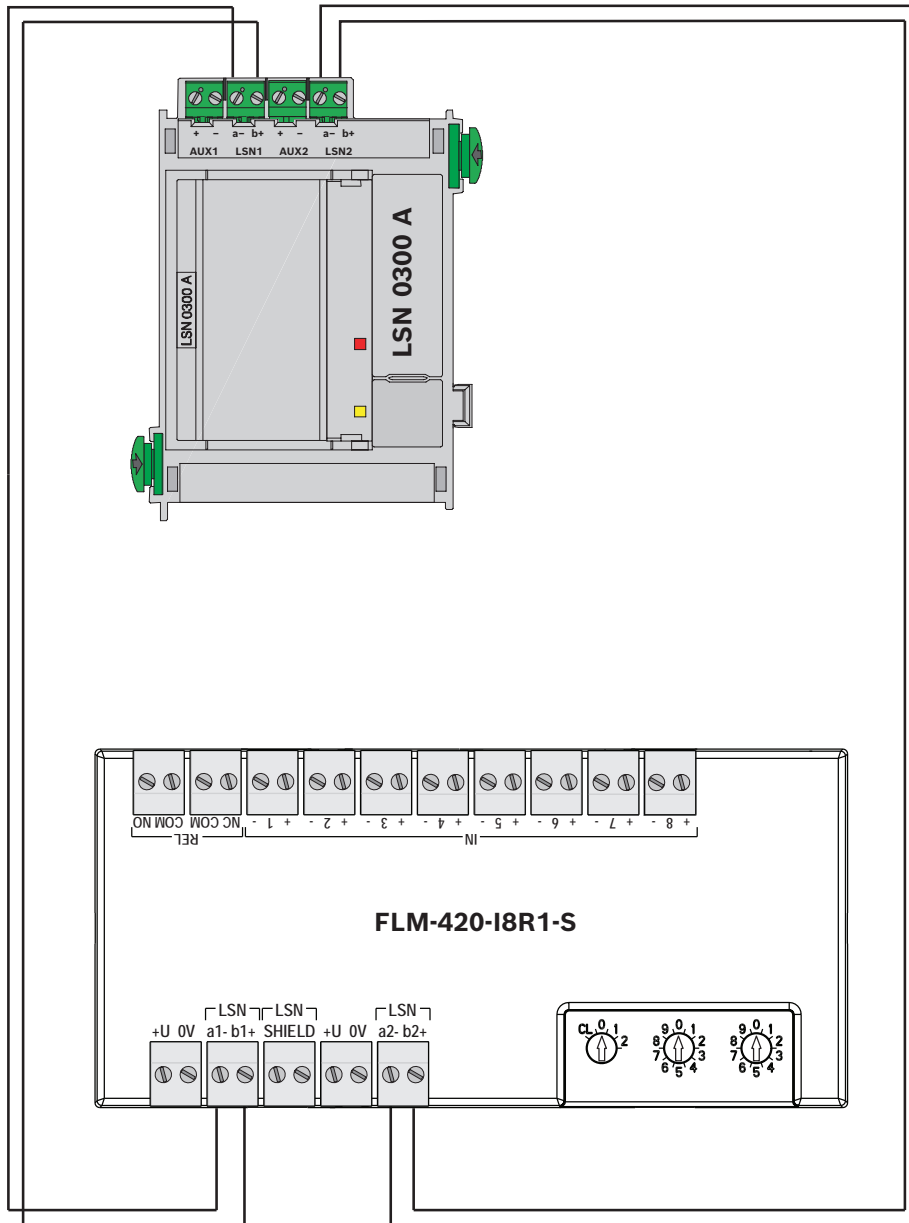
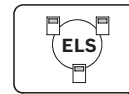
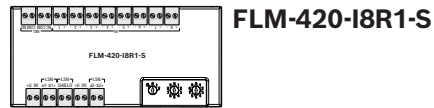
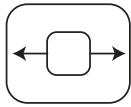
FLM-I 420-S  
 FLM-420-I2-D  
 FLM-420-O1I1-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D

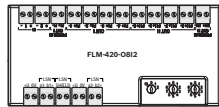
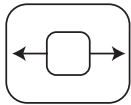




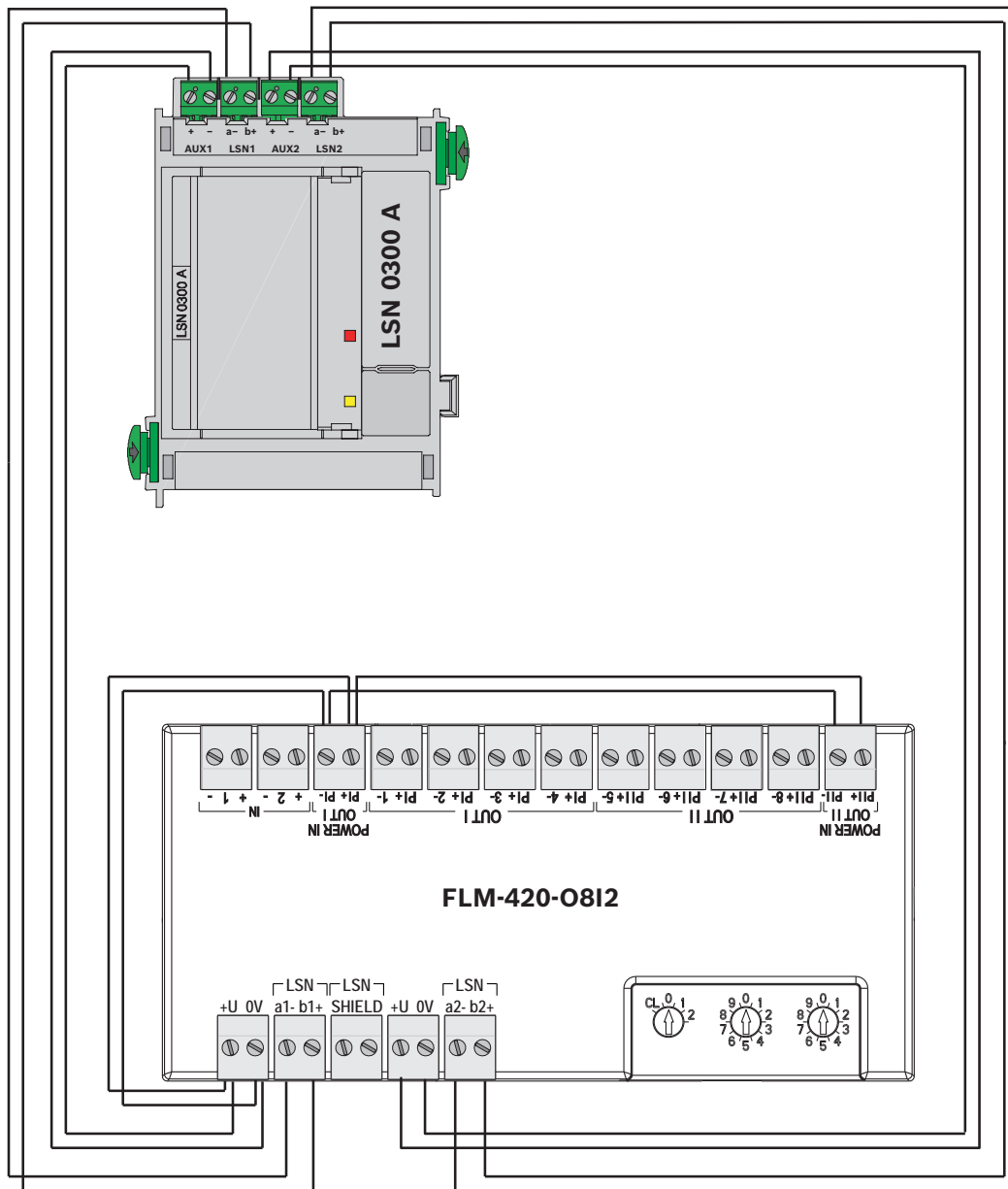
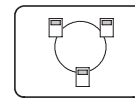
**FLM-420-I2-E/W**  
**FLM-420-RLV1-E**



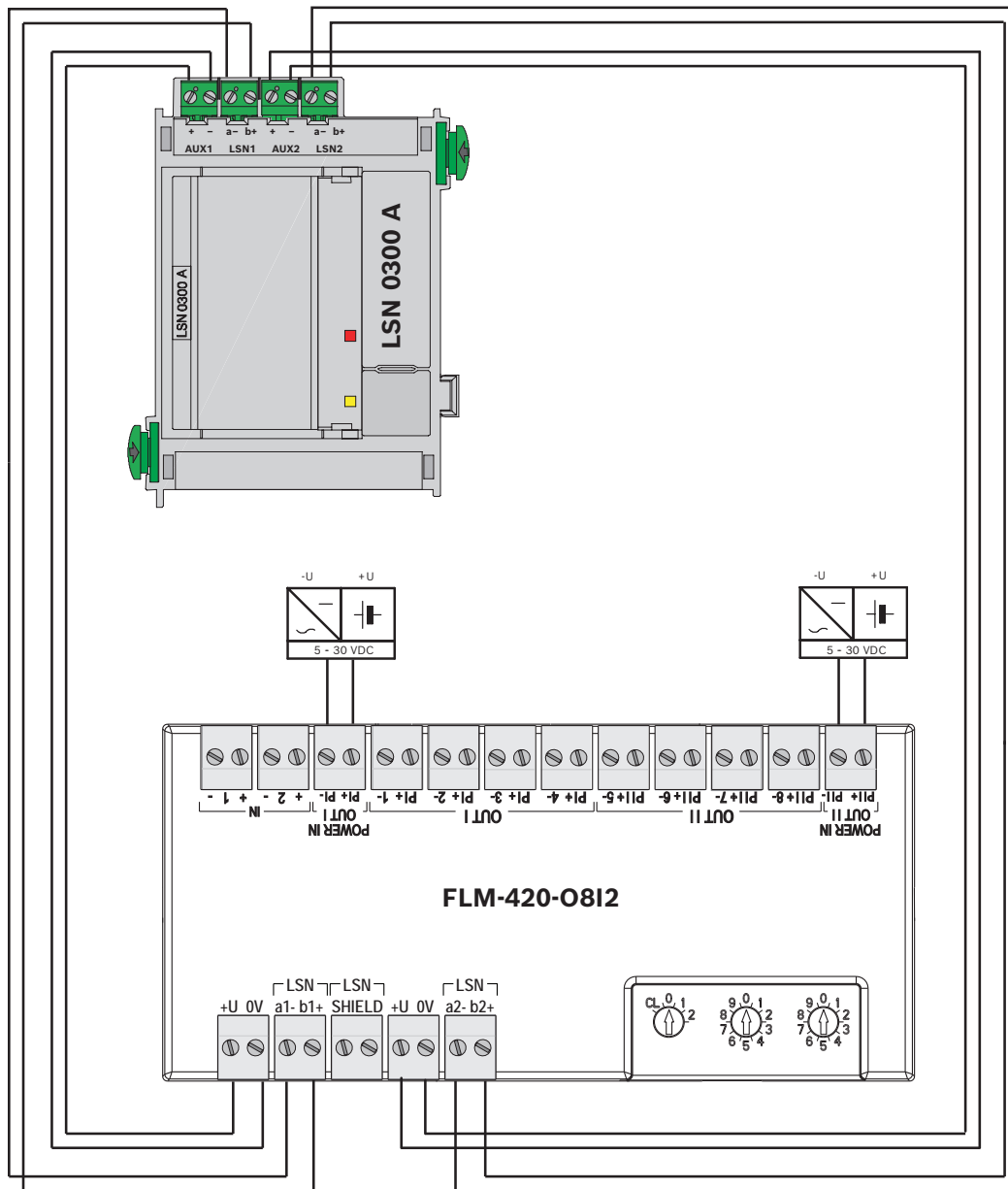
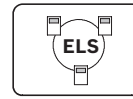
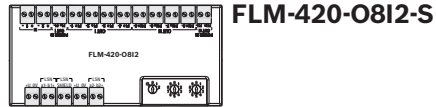
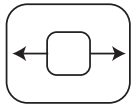


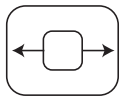


**FLM-420-0812-S**

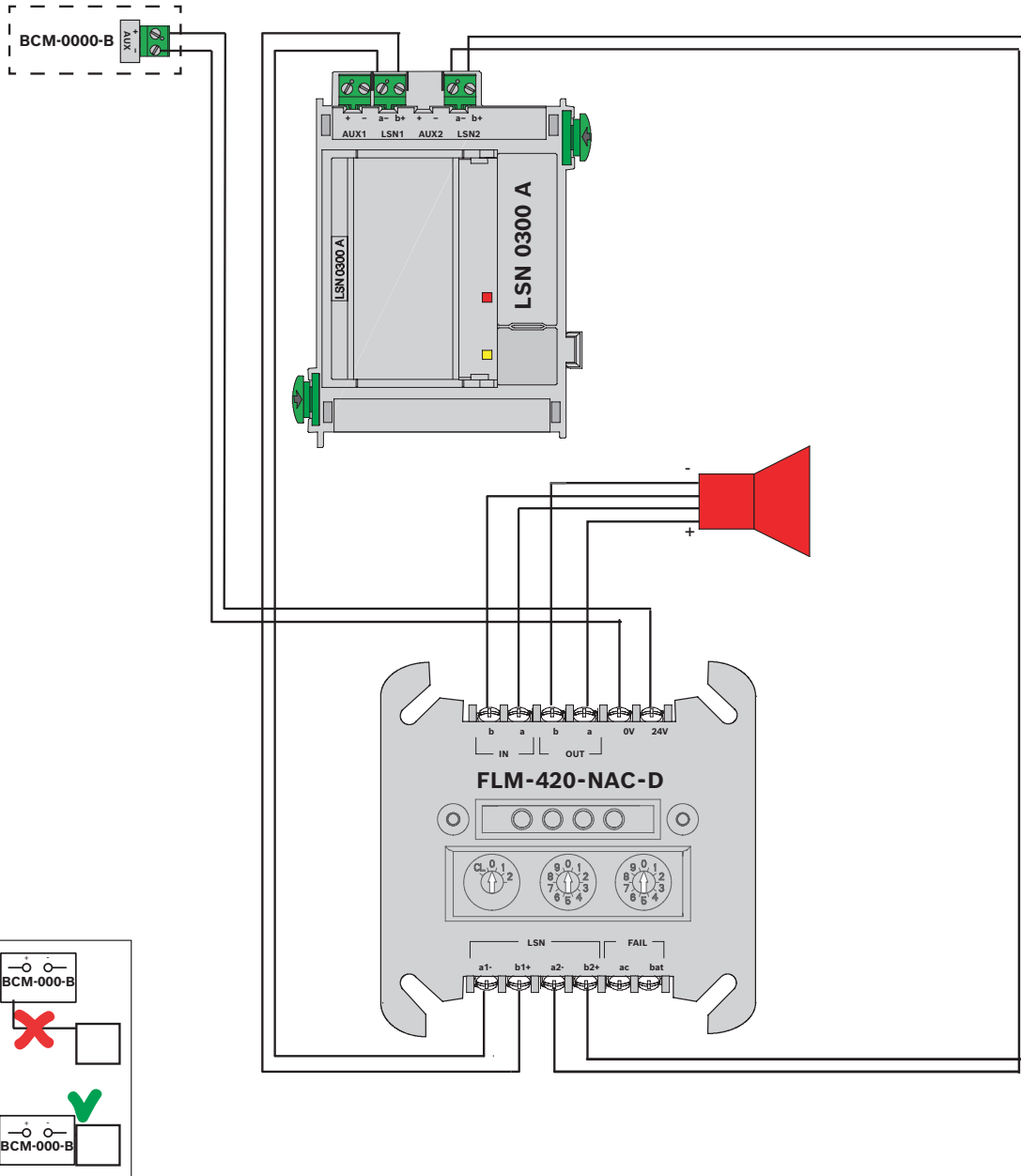
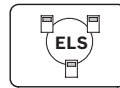


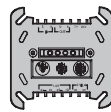
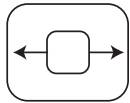




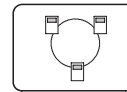


FLM-420-NAC-D/S

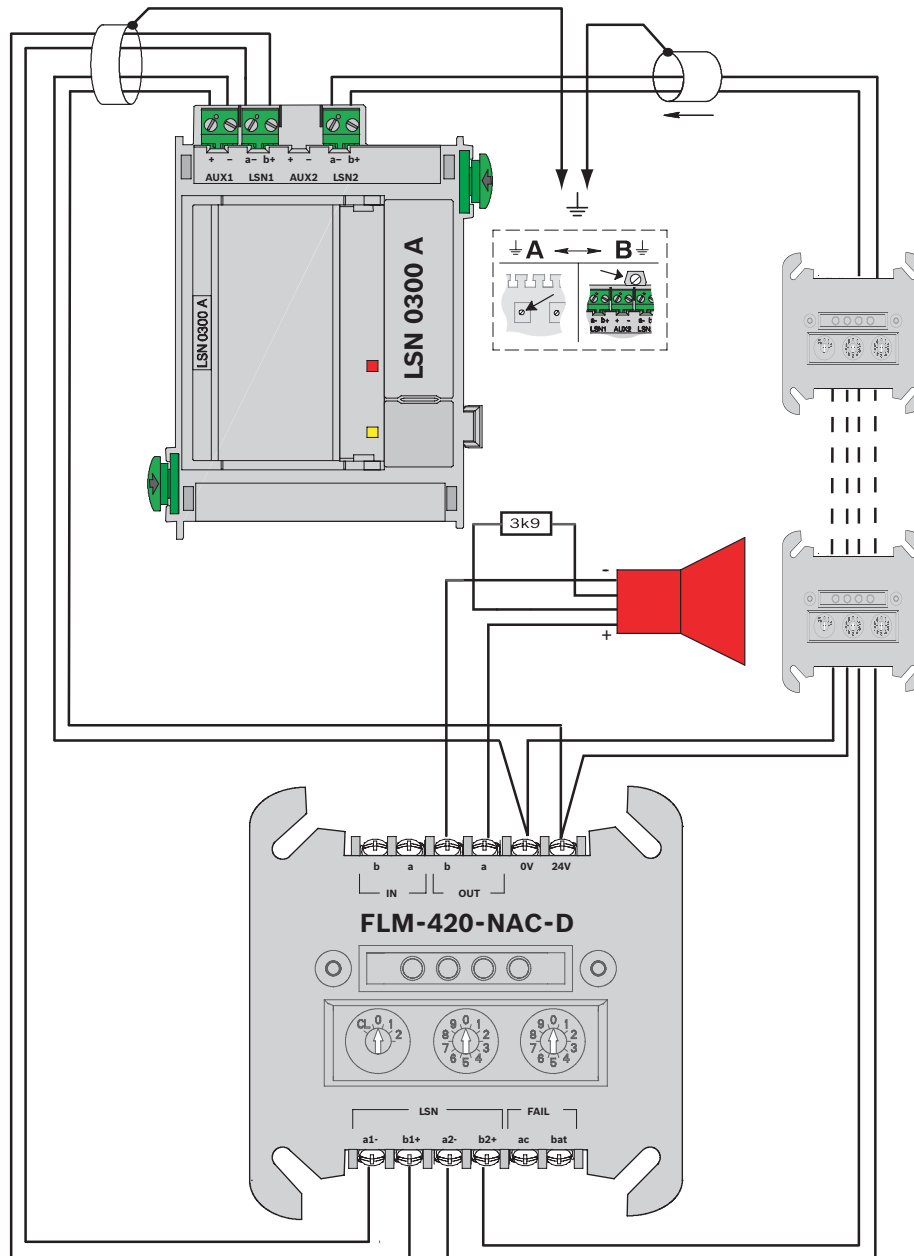


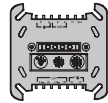
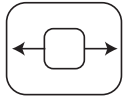


FLM-420-NAC-D/S

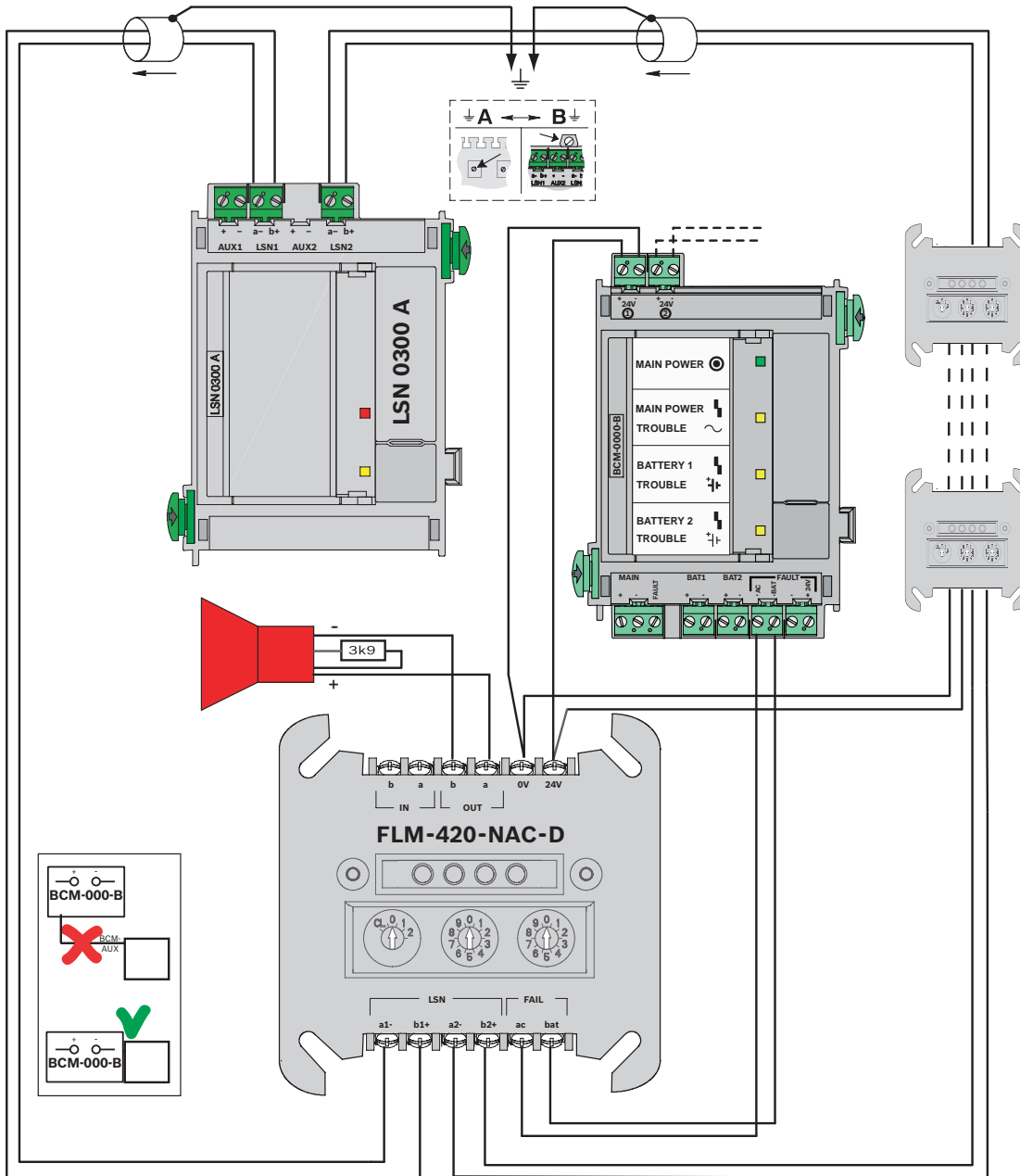
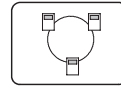


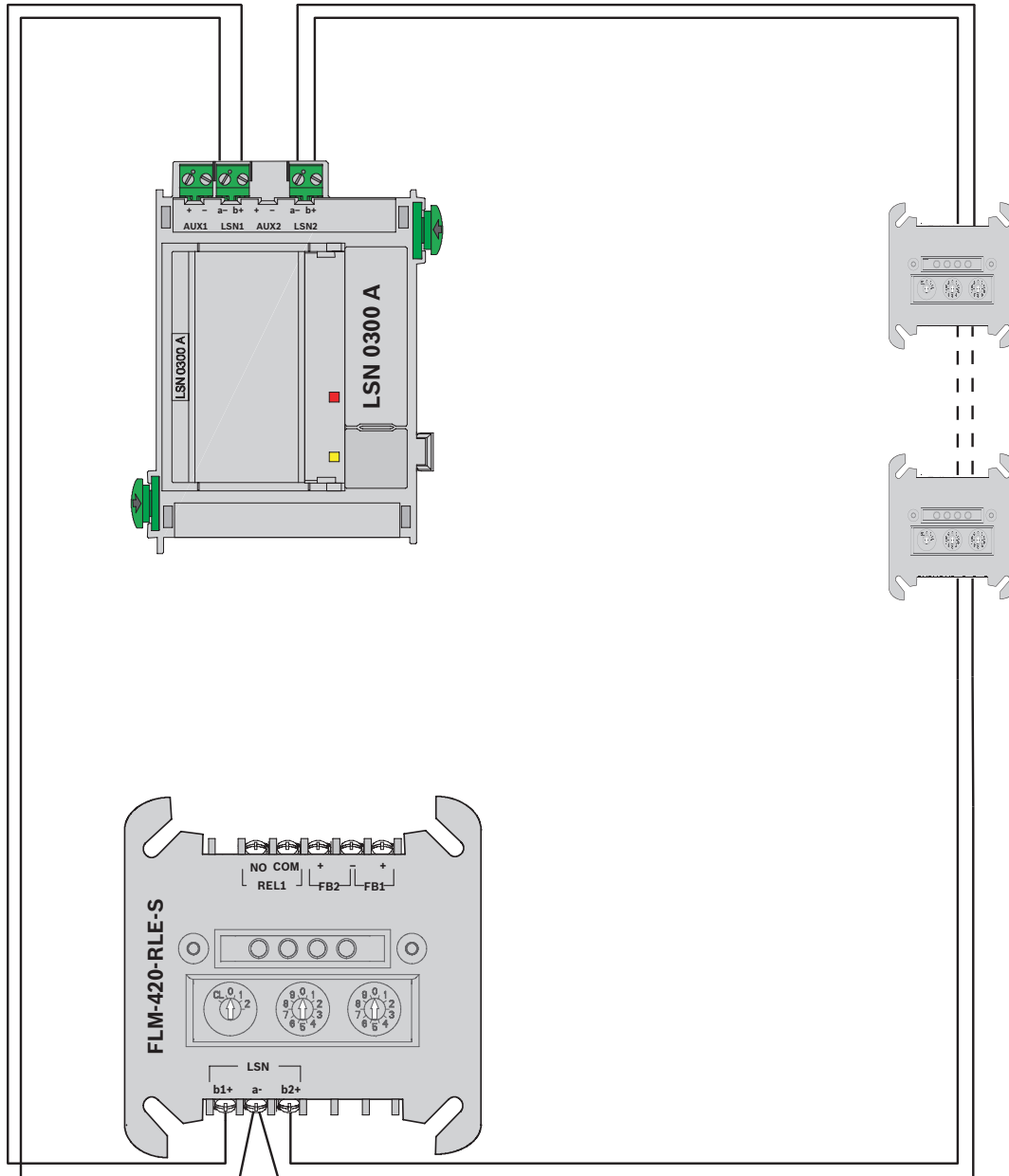
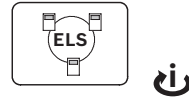
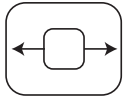
EN 54-2

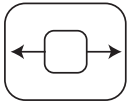




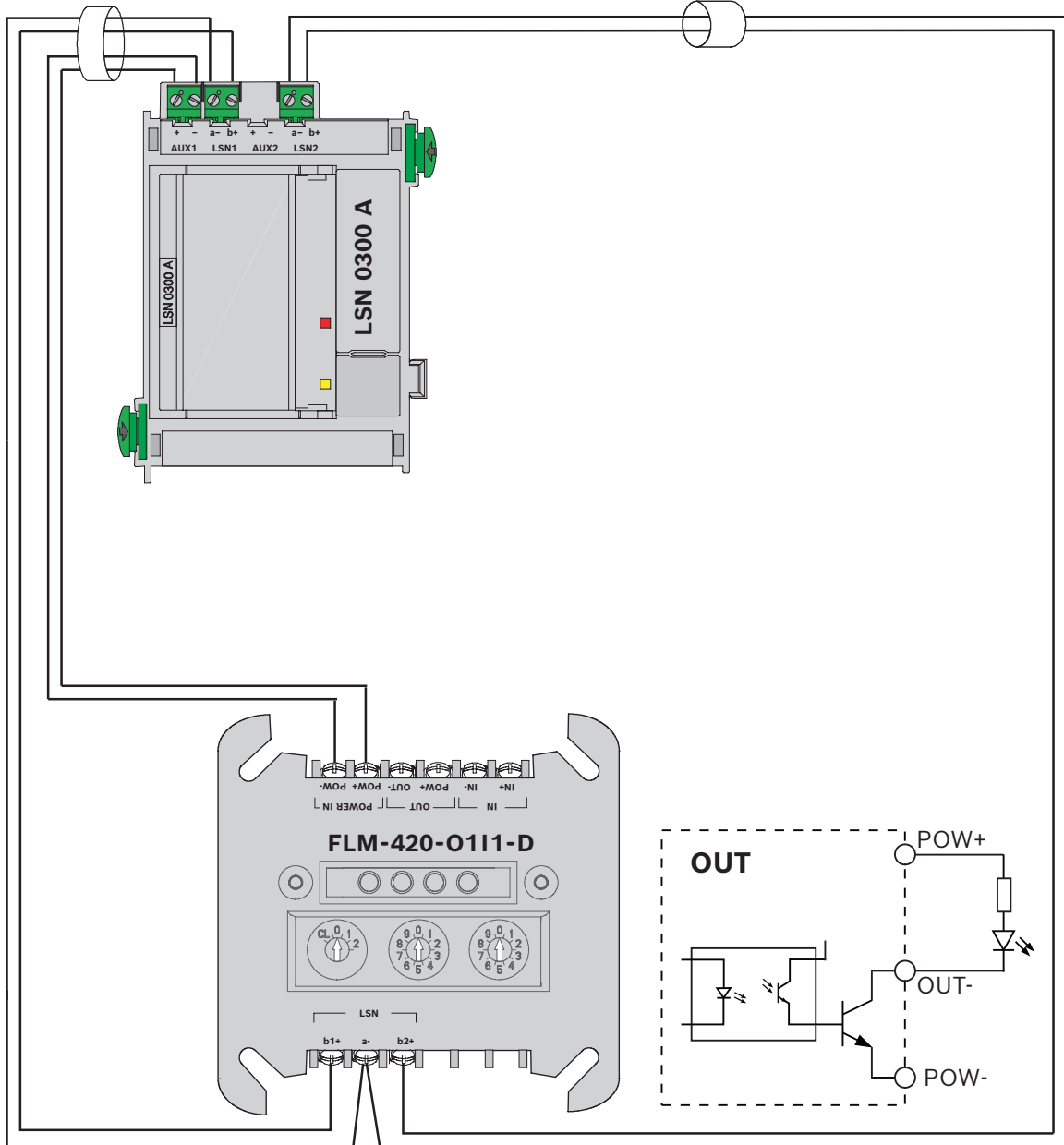
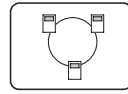
FLM-420-NAC-D/S

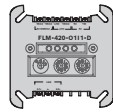
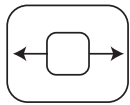




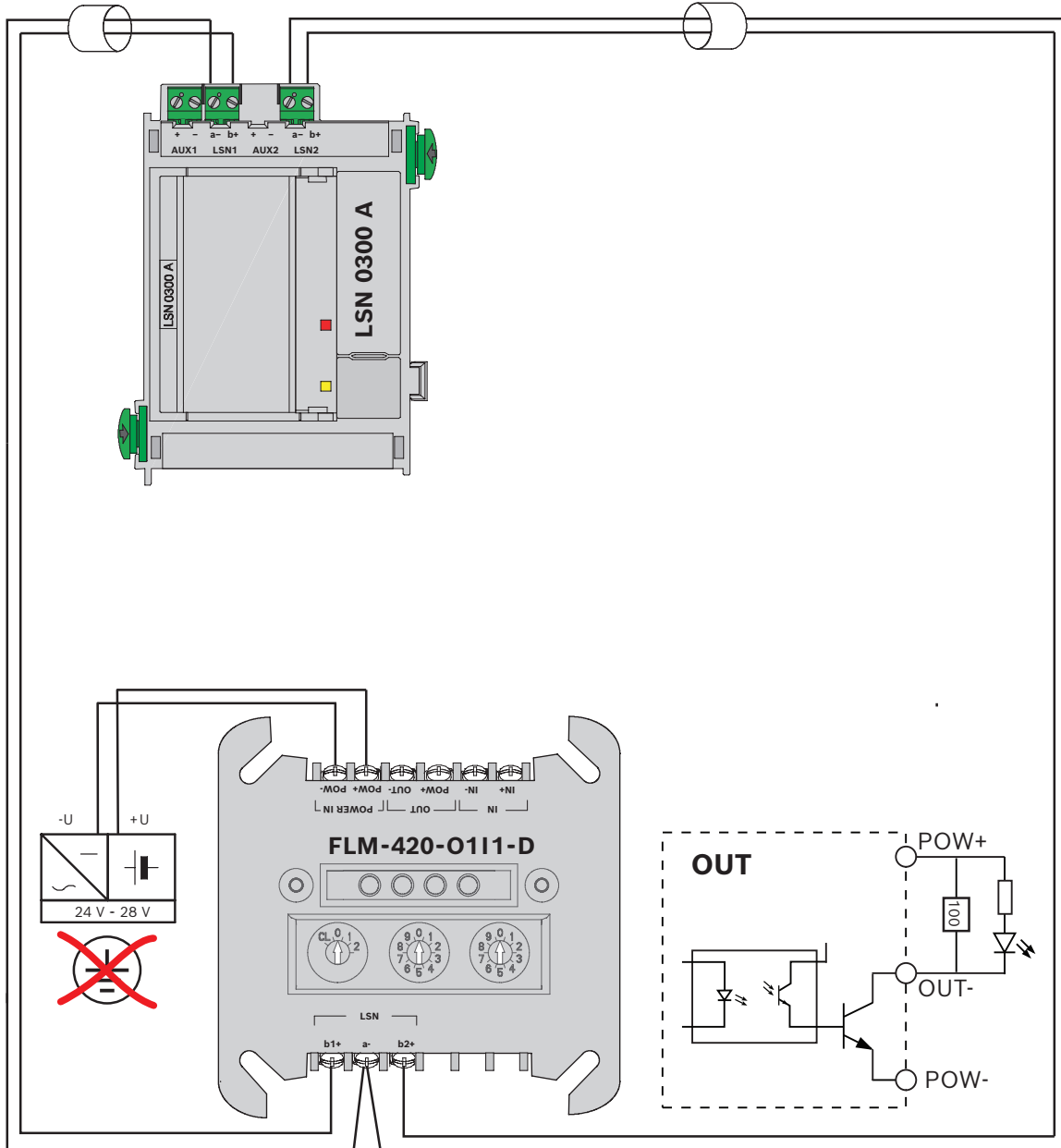
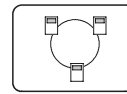


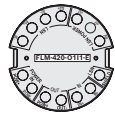
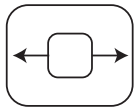
**FLM-420-O111-D**



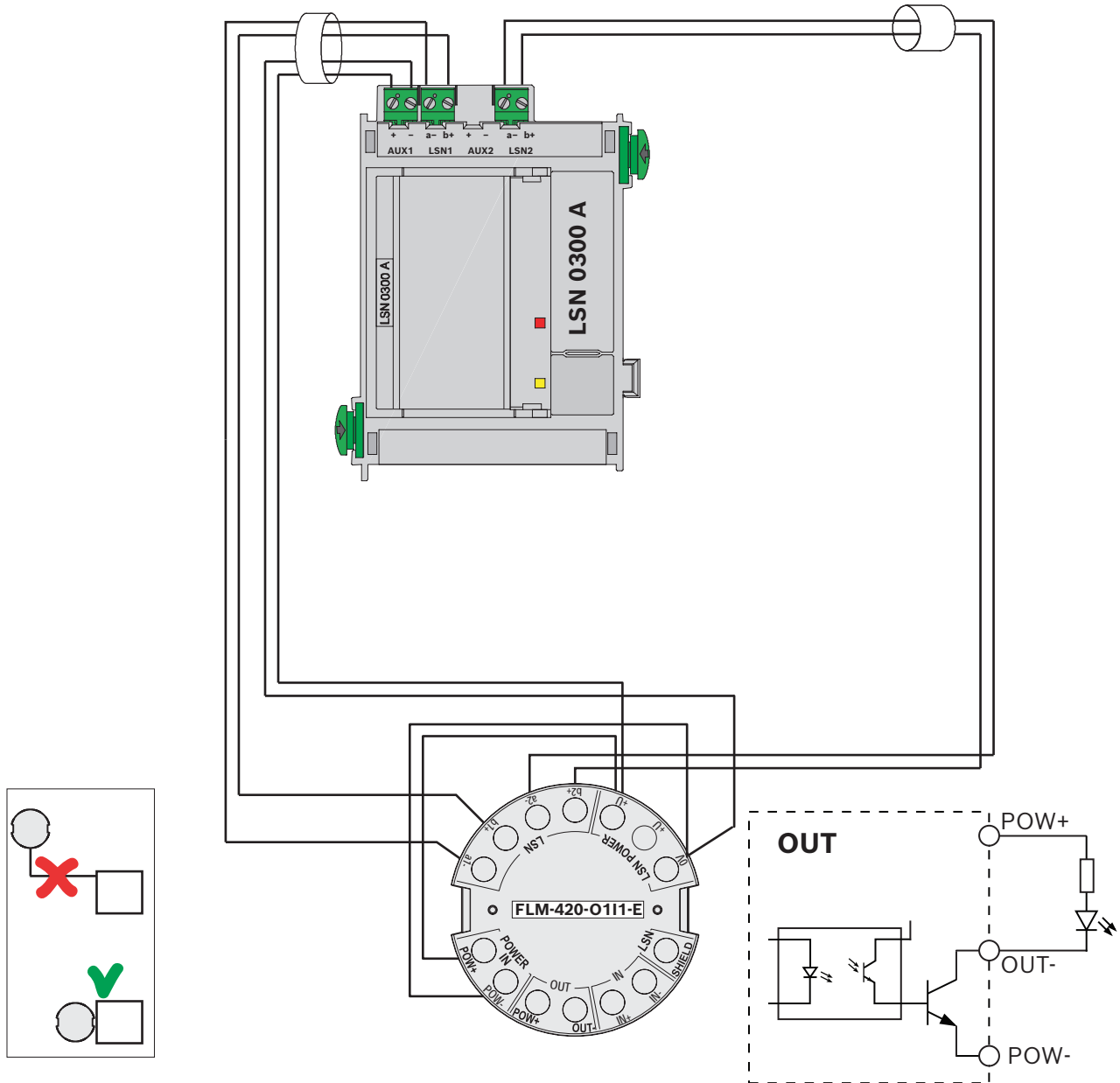
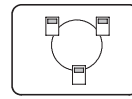


**FLM-420-O111-D**

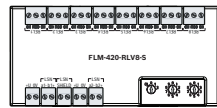
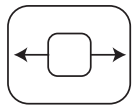




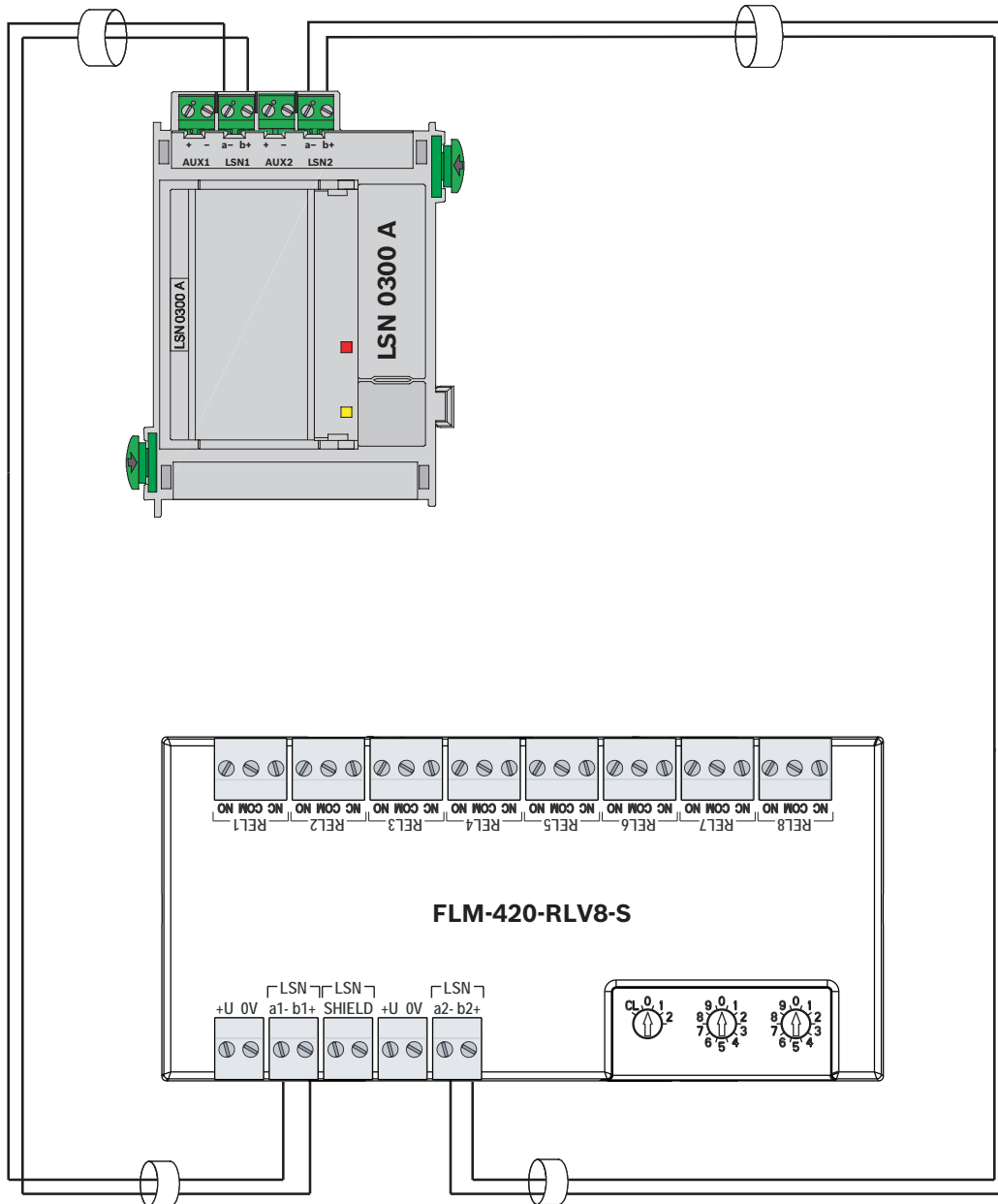
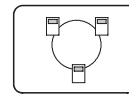
**FLM-420-O111-E**





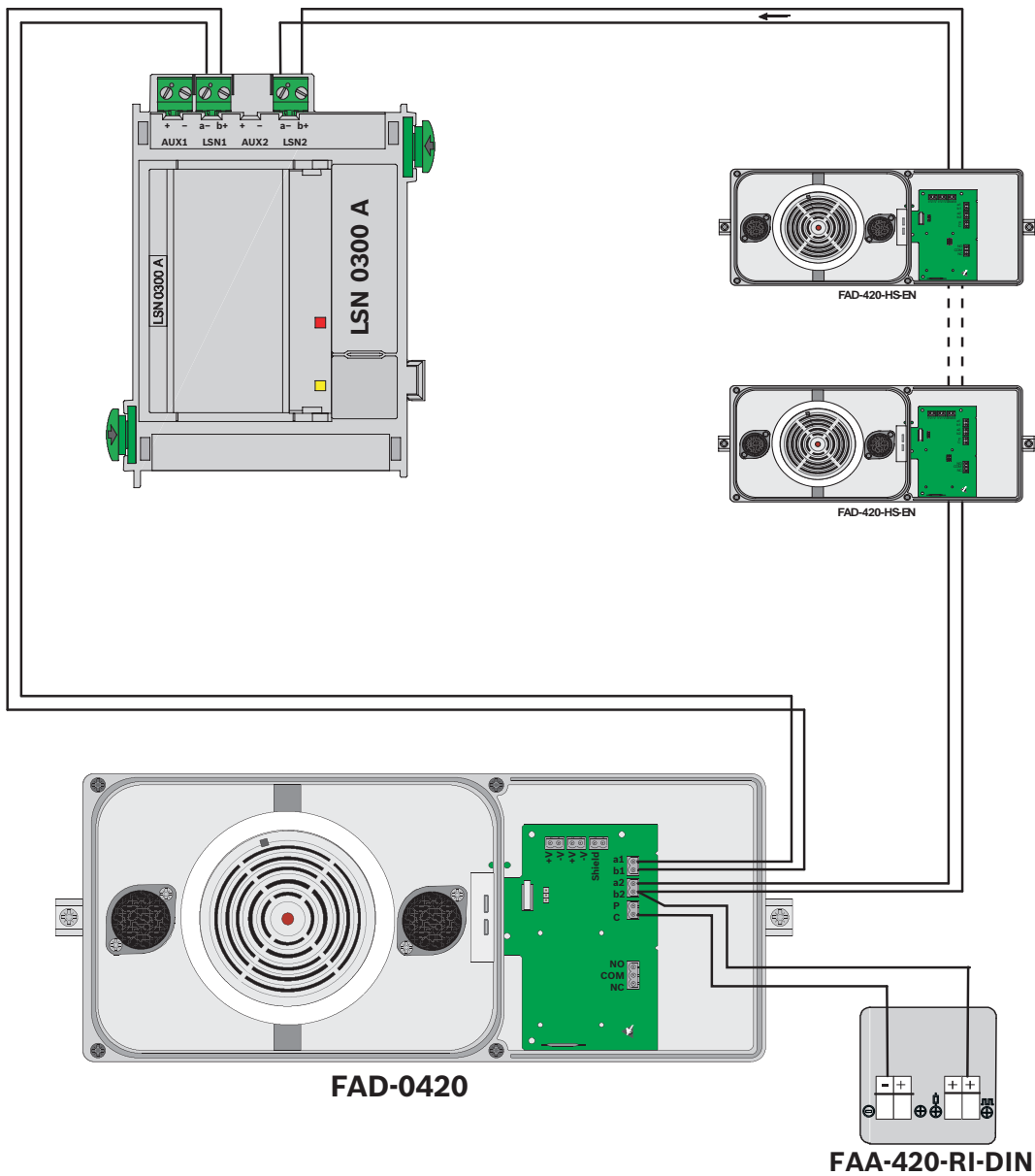


**FLM-420-RLV8-S**



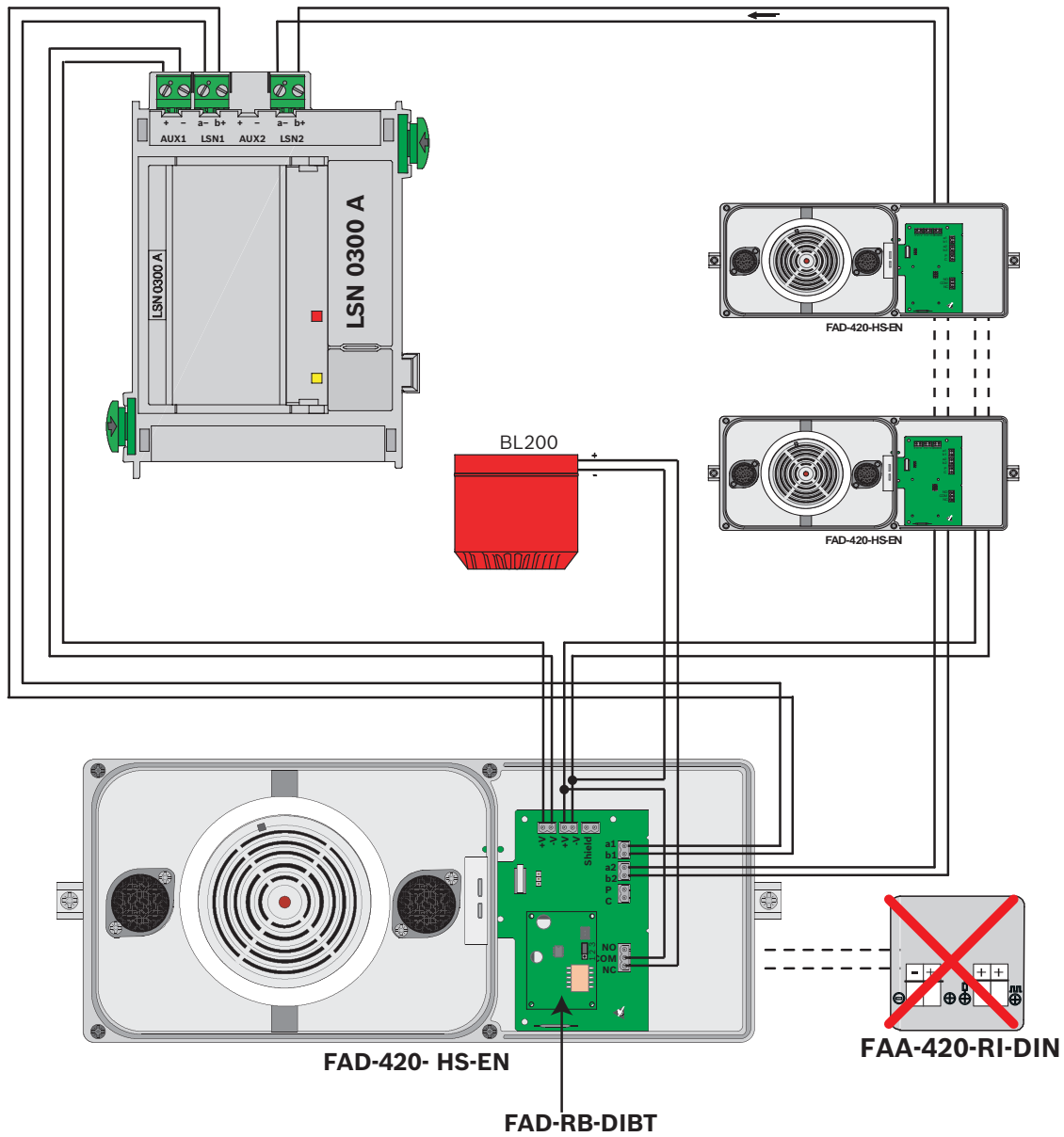


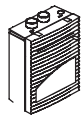
FAD-0420



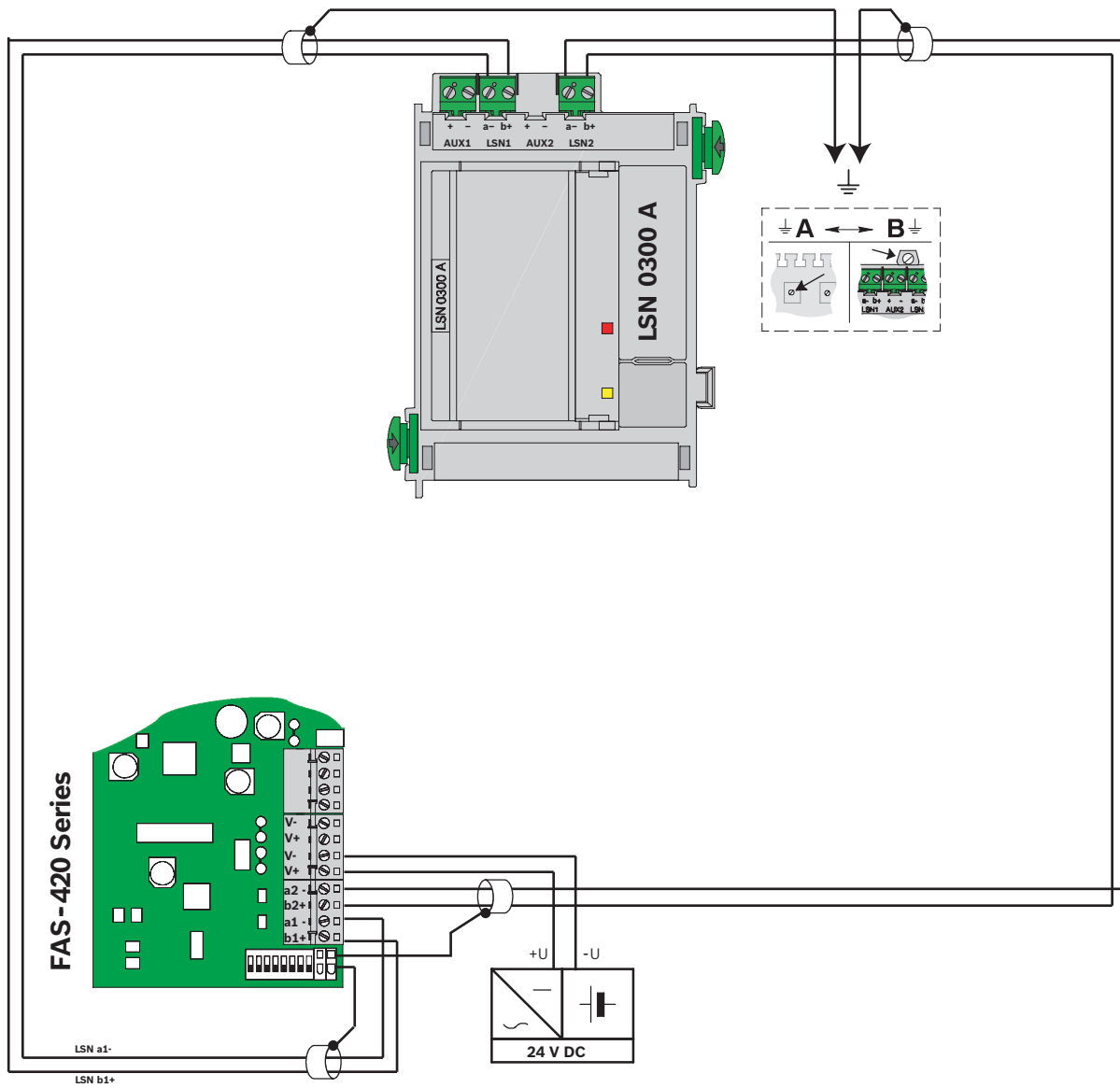


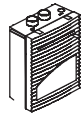
FAD-420-HS-EN



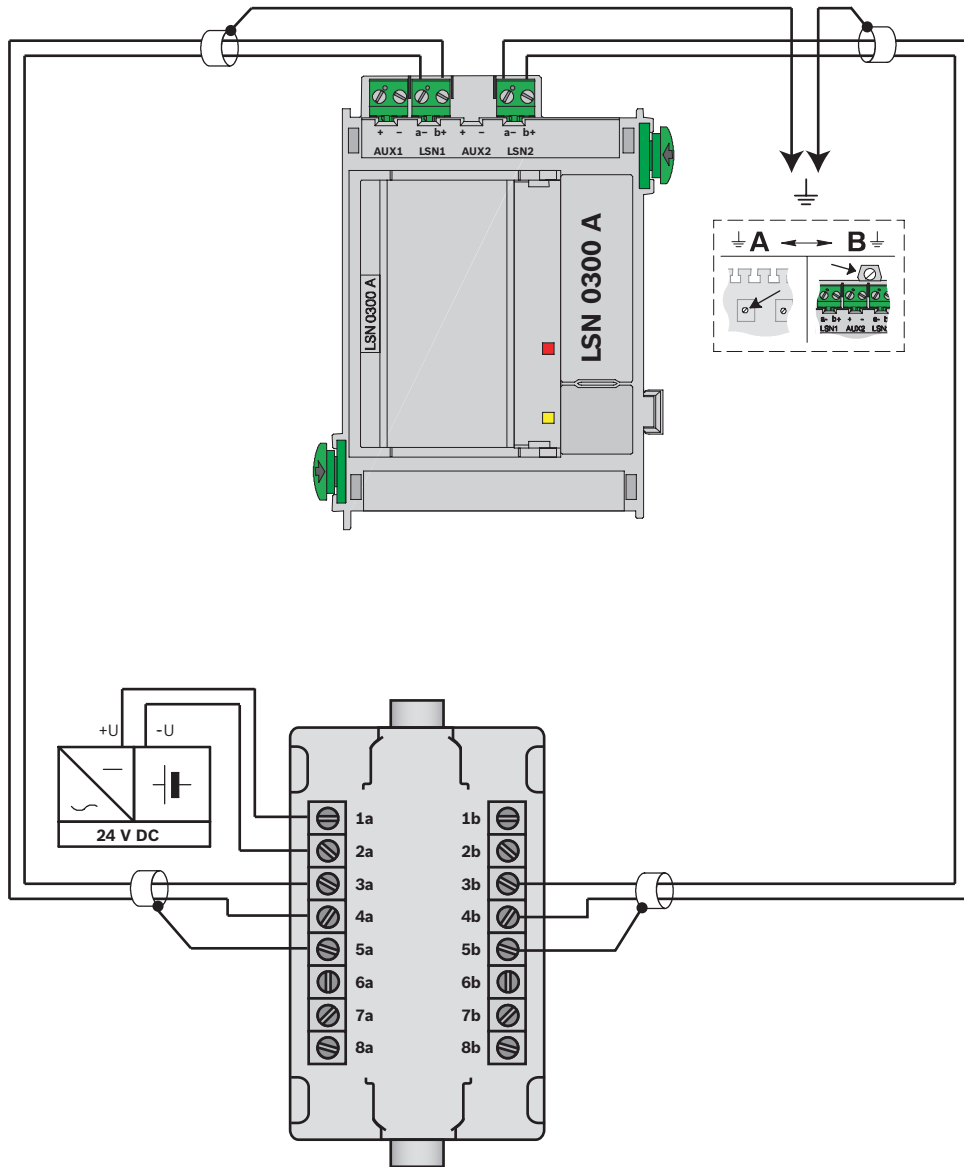


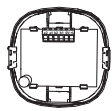
**FAS-420 Series**



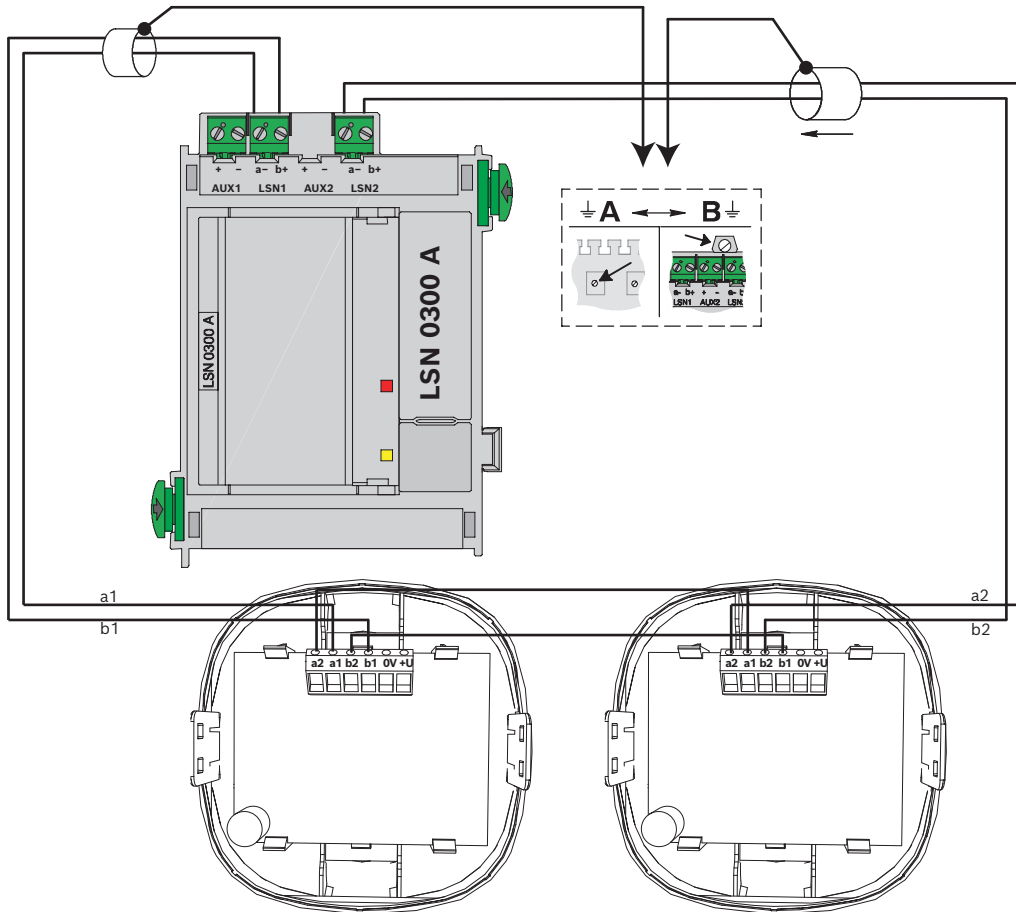
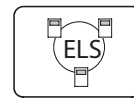


FAS-420-TM Series





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

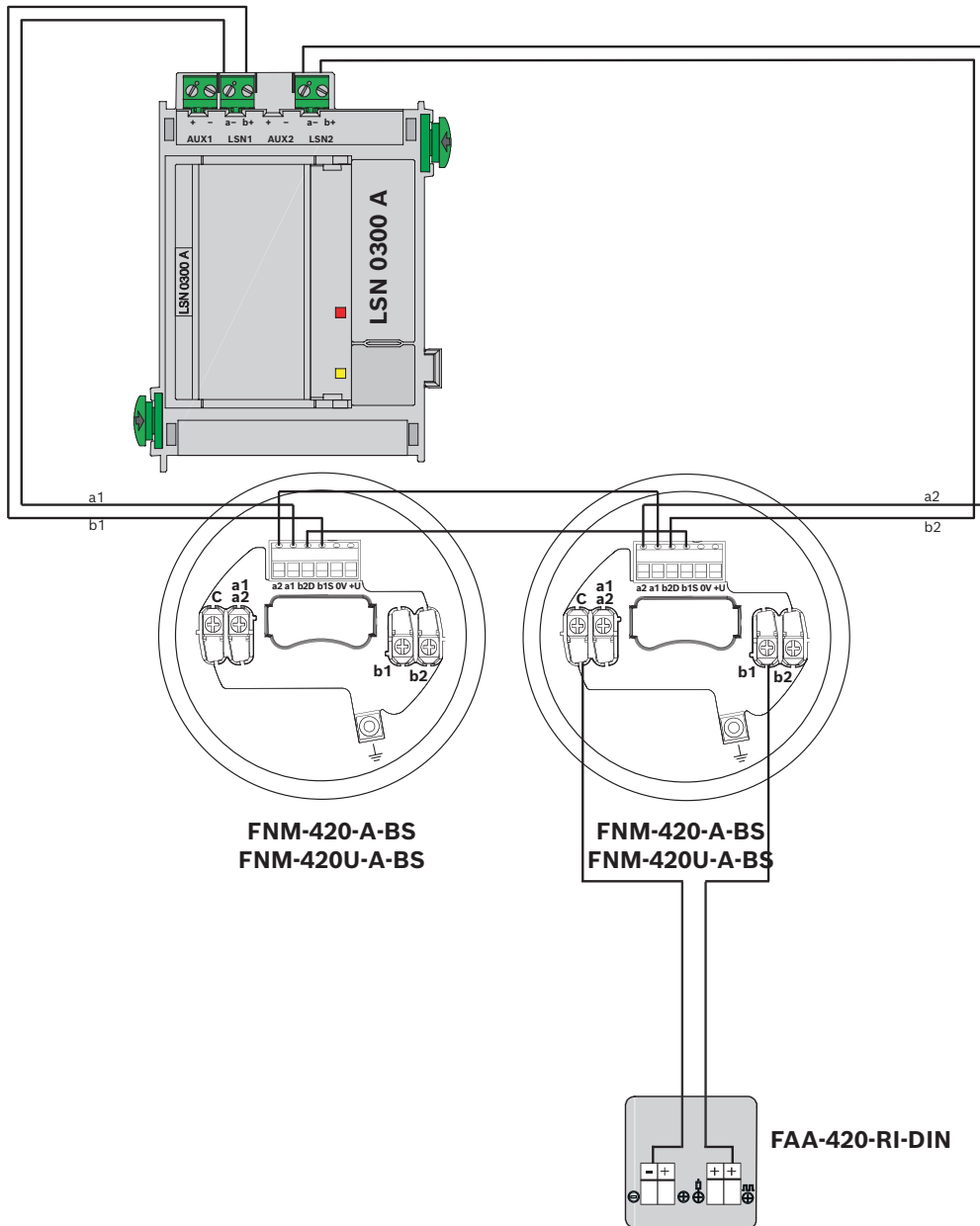
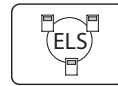


**FNM-420-A/-B**  
**FNM-420U-A/-B**  
**FNM-420V-A**

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

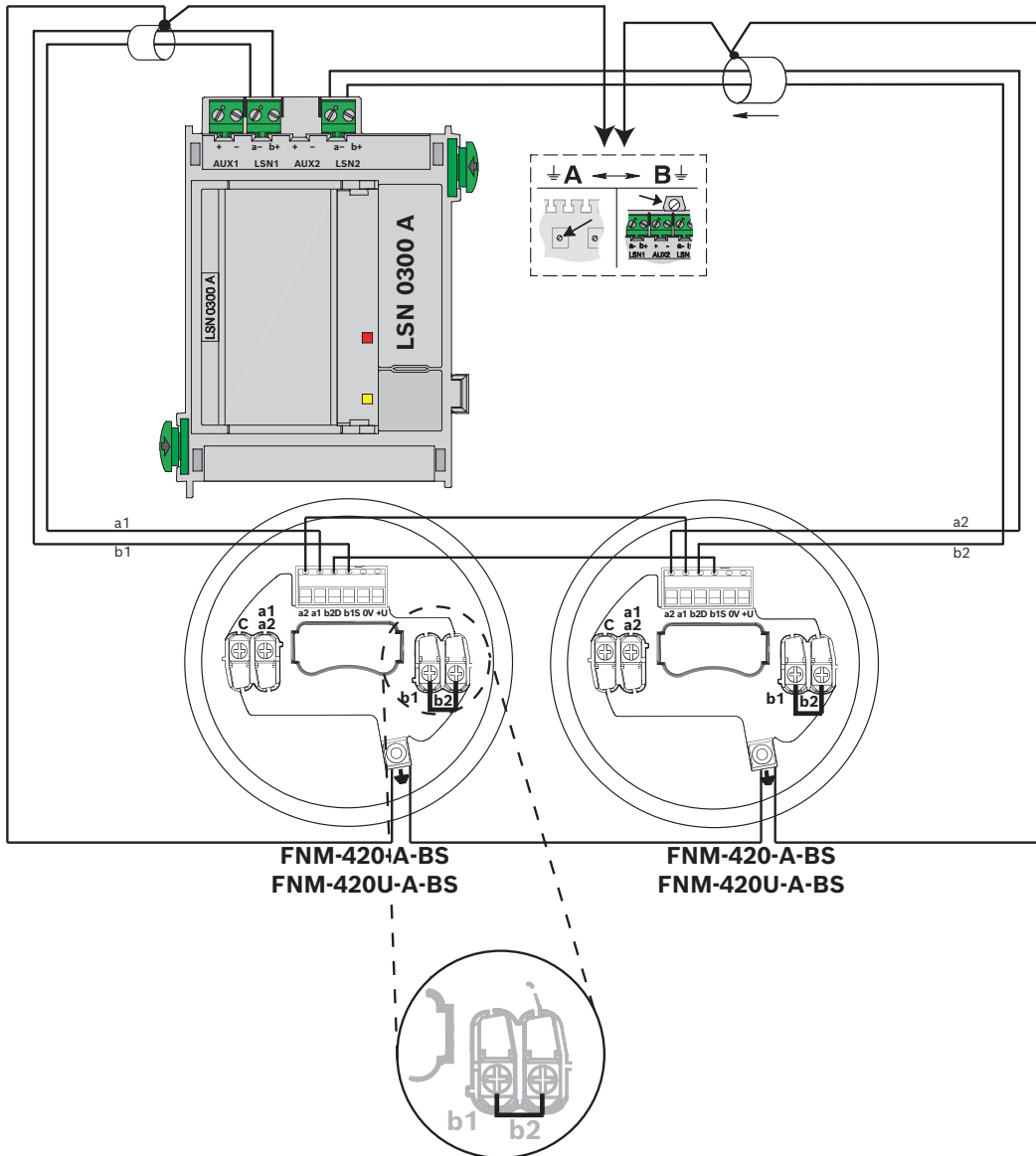
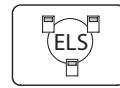


**FNM-420-A-BS**  
**FNM-420U-A-BS**

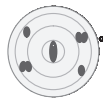




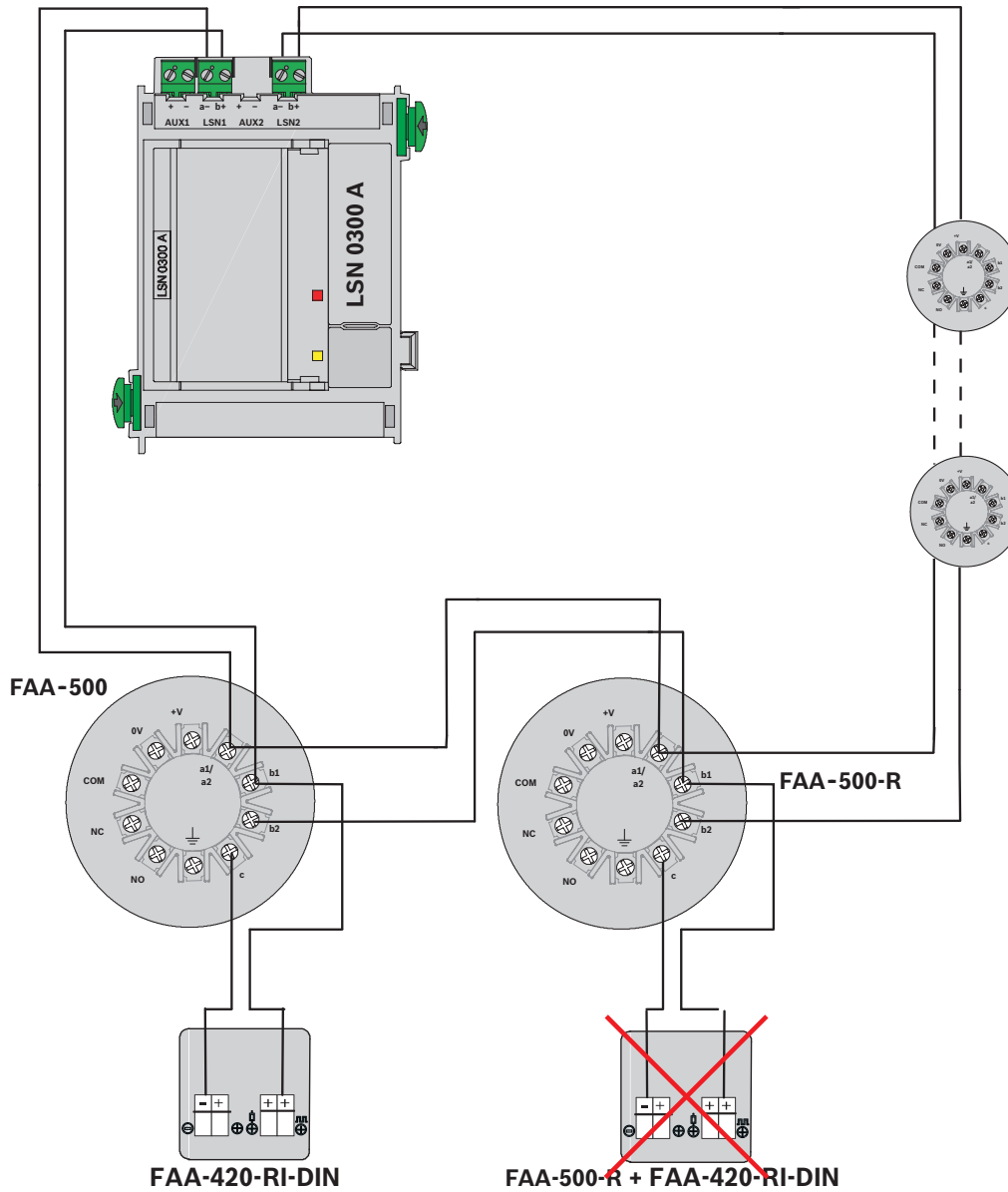
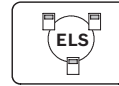
**FNM-420-A-BS**  
**FNM-420U-A-BS**

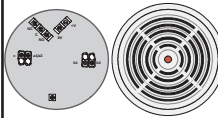




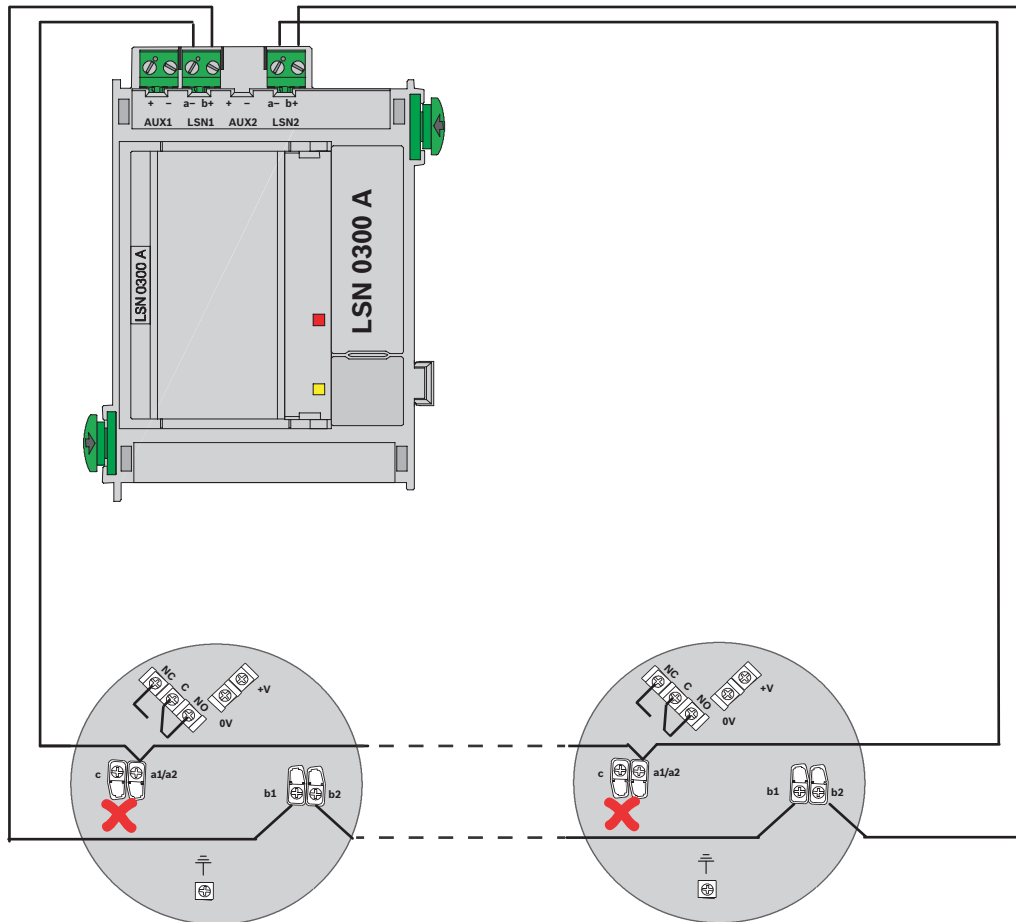
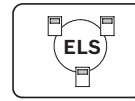


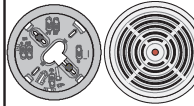
FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P



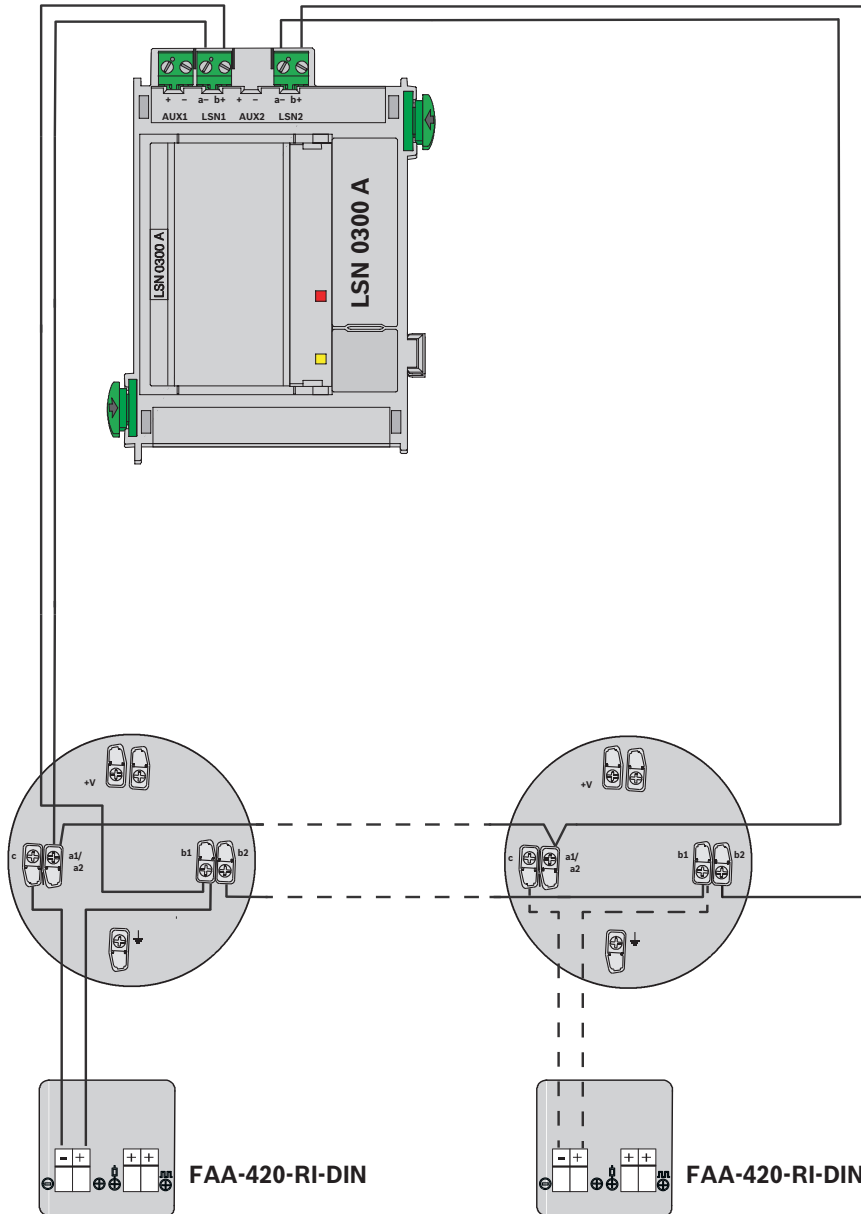
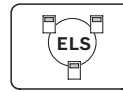


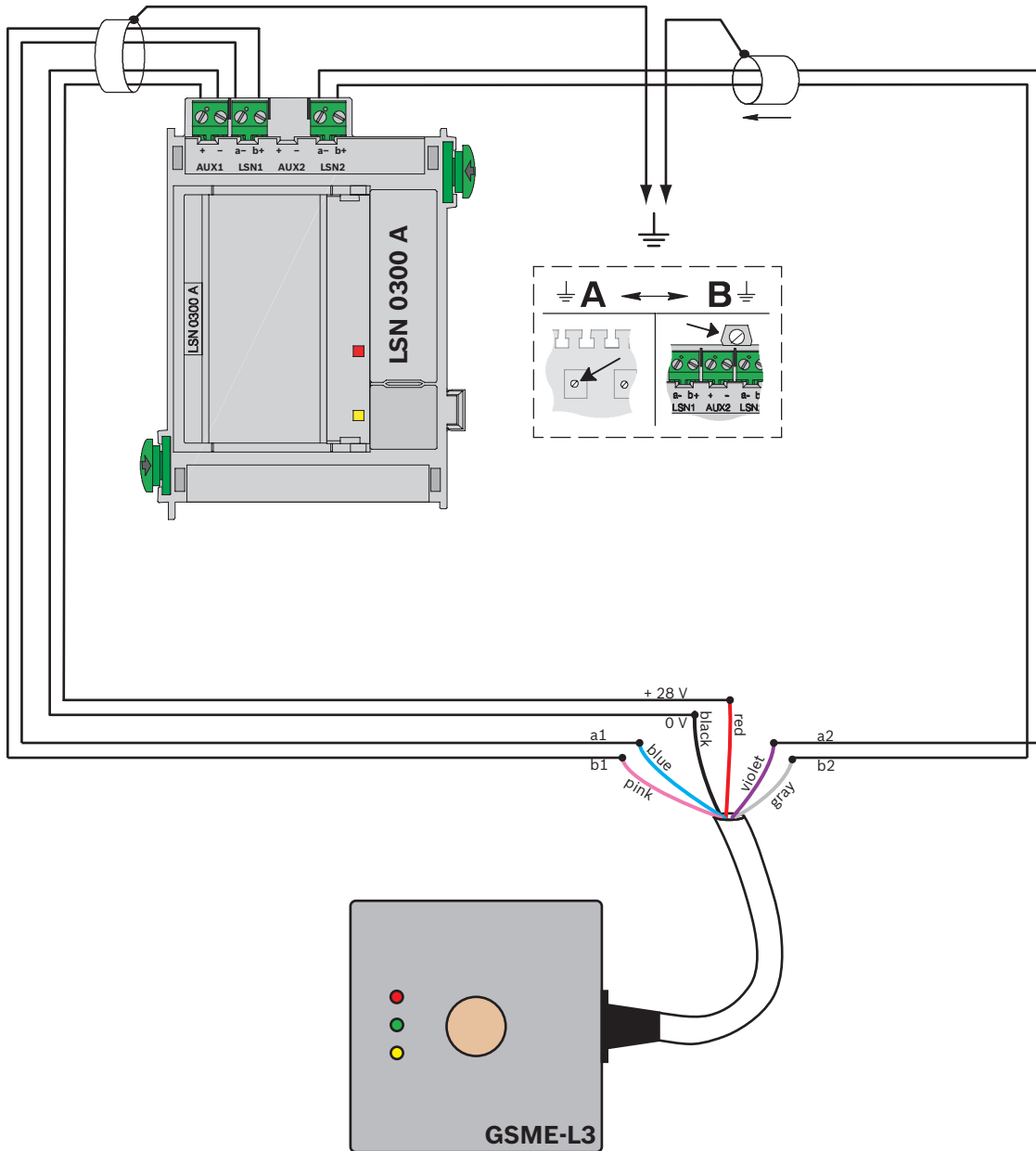
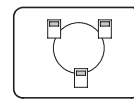
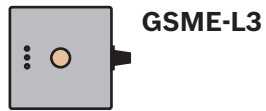
**FAA-MSR-420**  
**FAP-425-O, FAP-425-O-R**  
**FAP-425-OT, FAP-425-OT-R**  
**FAP-425-T-R**  
**FAP-425-DO-R, FAP-425-DOT-R**  
**FAP-425-DOTC-R, FAP-425-DOTCO-R**

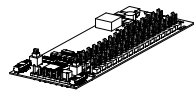




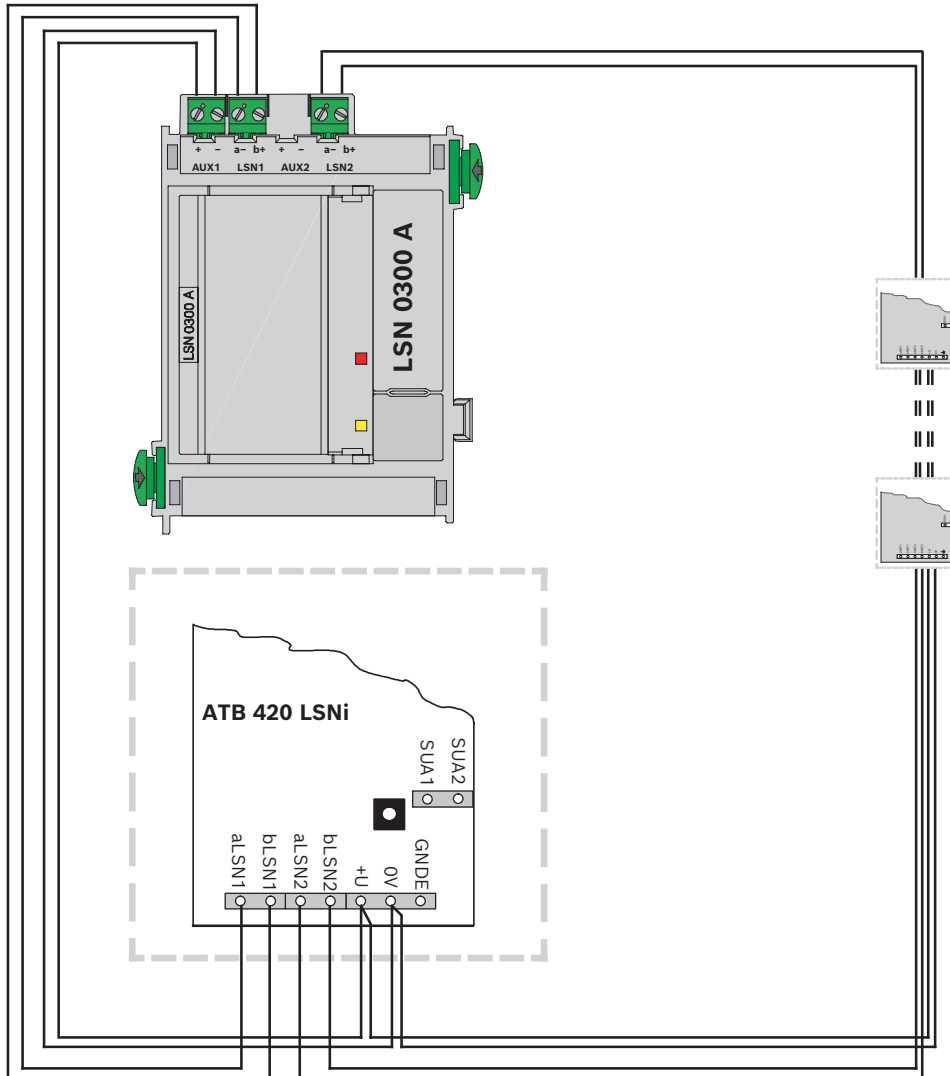
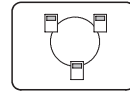
MS 400, MS 400 B  
 FAP-425-O, FAP-425-O-R  
 FAP-425-OT, FAP-425-OT-R  
 FAP-425-T-R  
 FAP-425-DO-R, FAP-425-DOT-R  
 FAP-425-DOTC-R, FAP-425-DOTCO-R





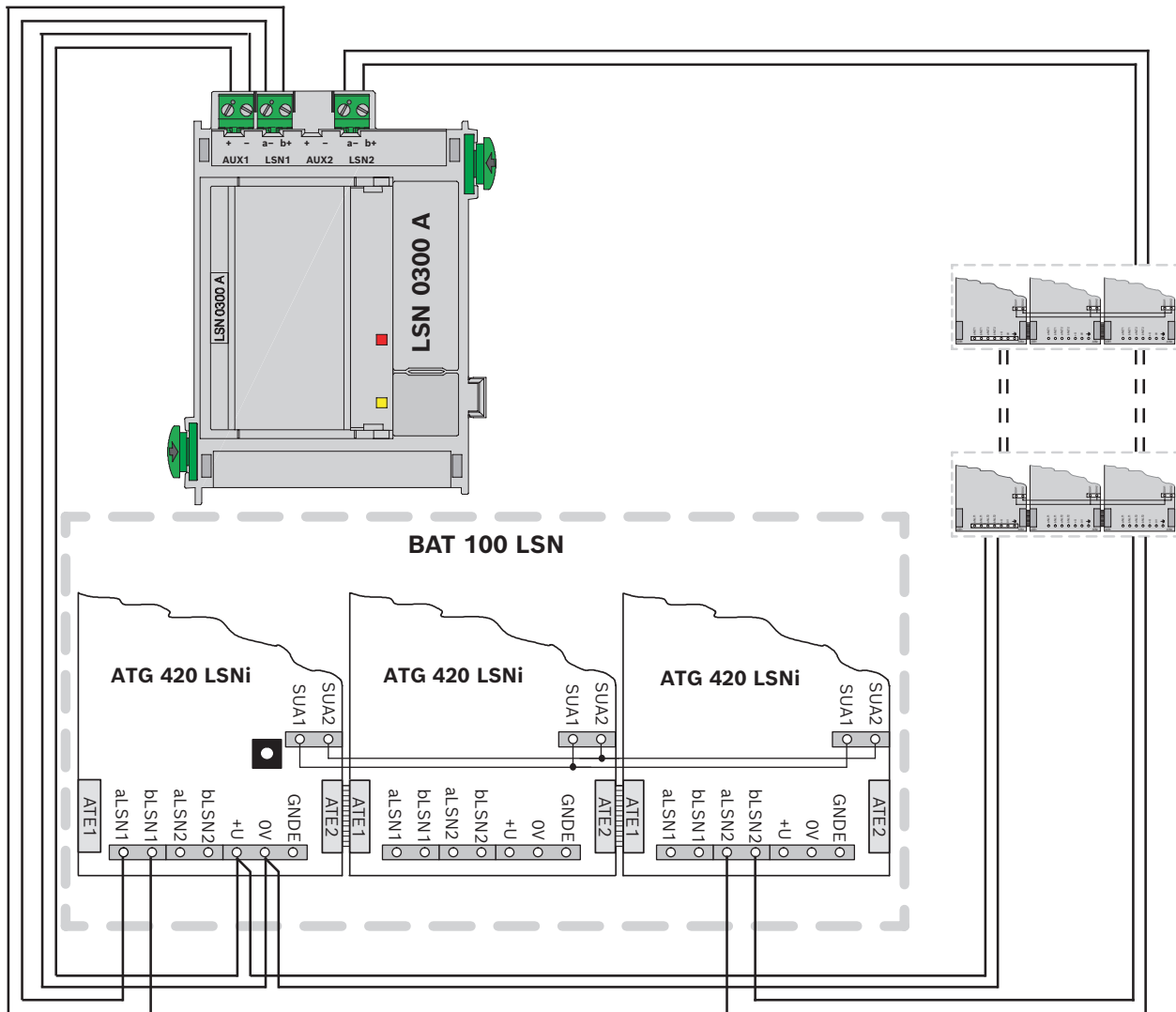
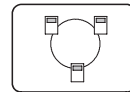


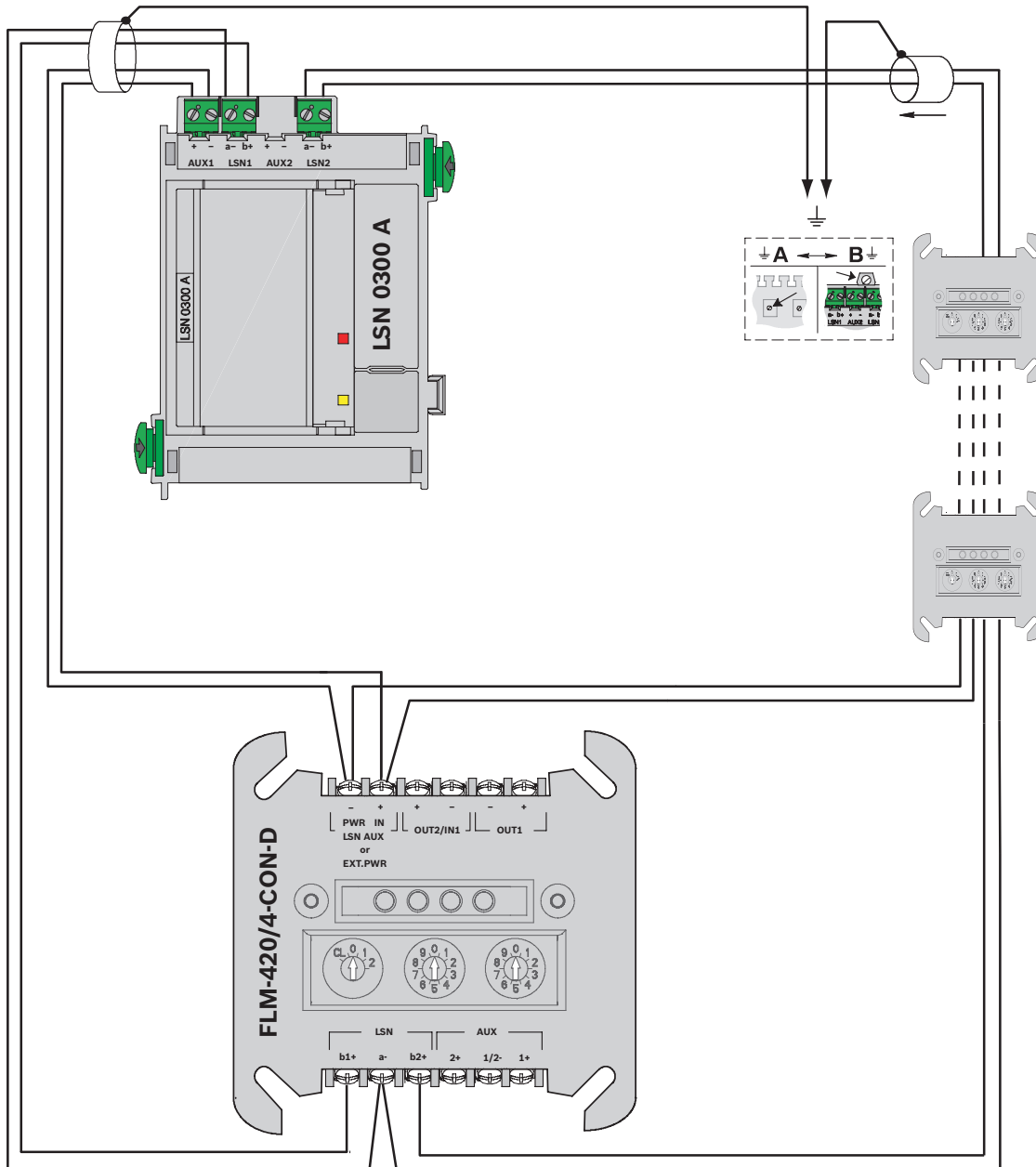
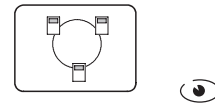
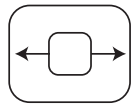
ATB 420 LSNi





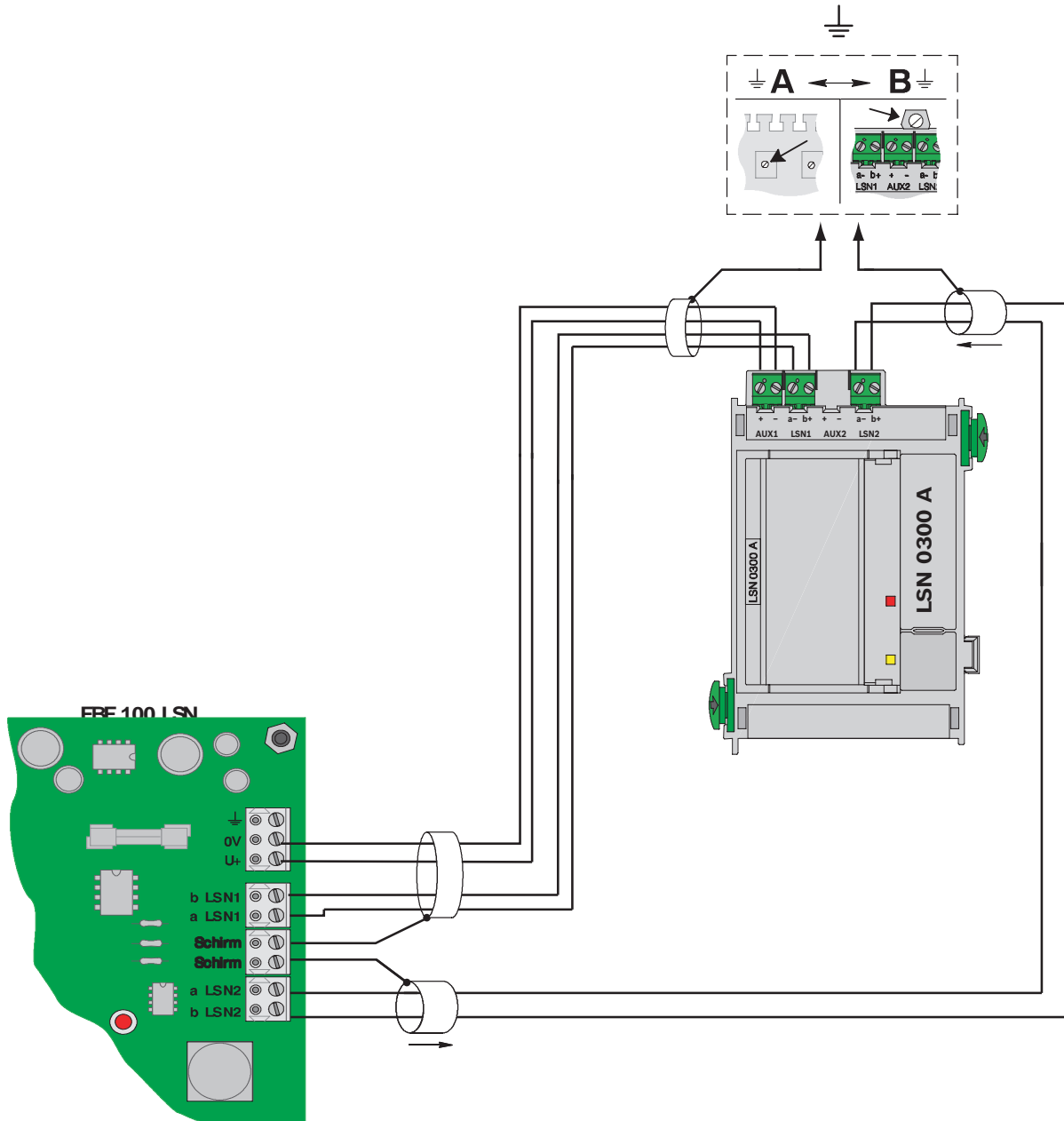
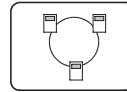
**BAT 100 LSN**  
**ATG 420 LSNi**



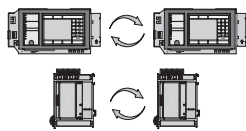




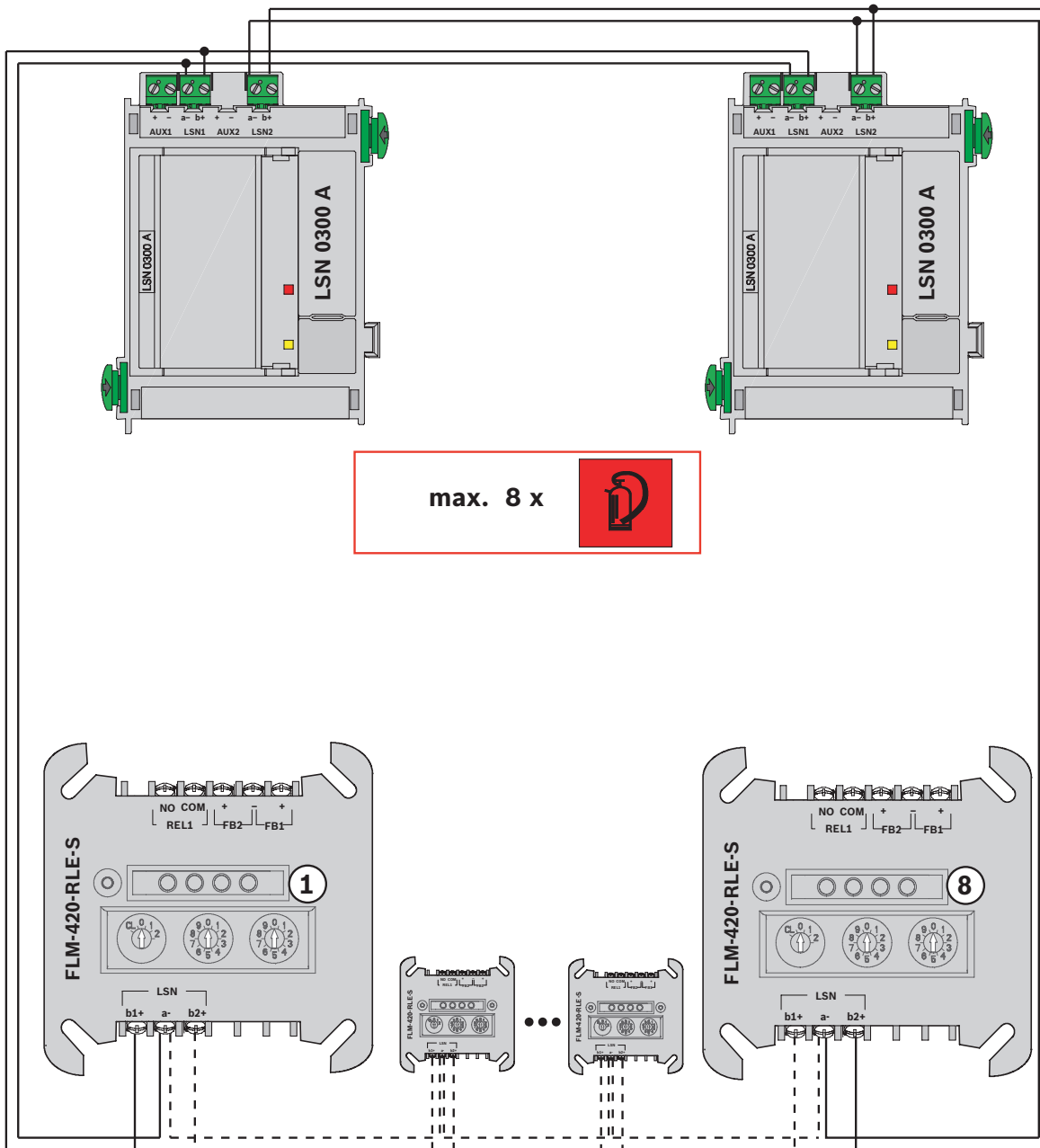
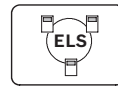
FBF 100 LSN





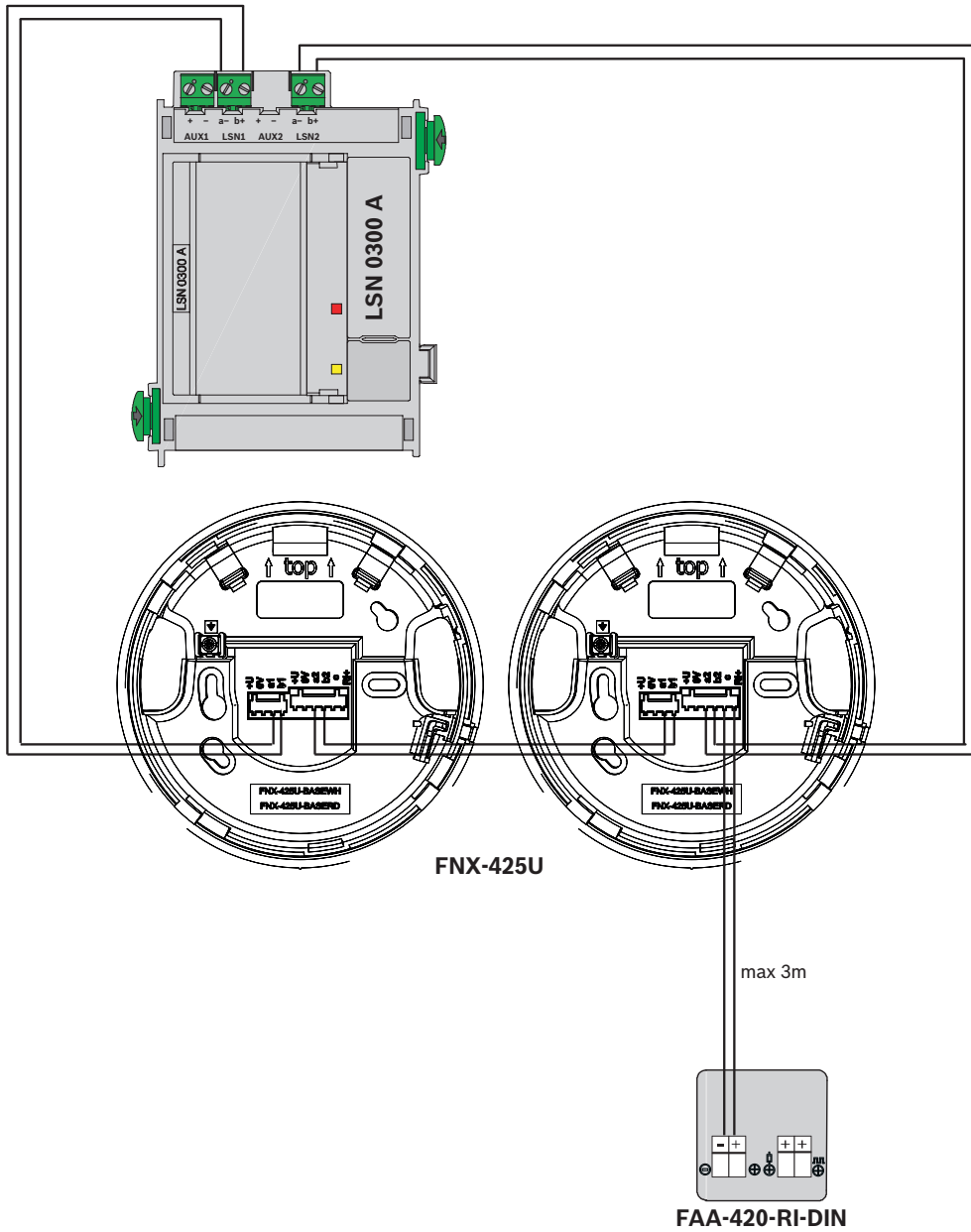
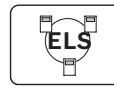


FLM-420-RLE-S





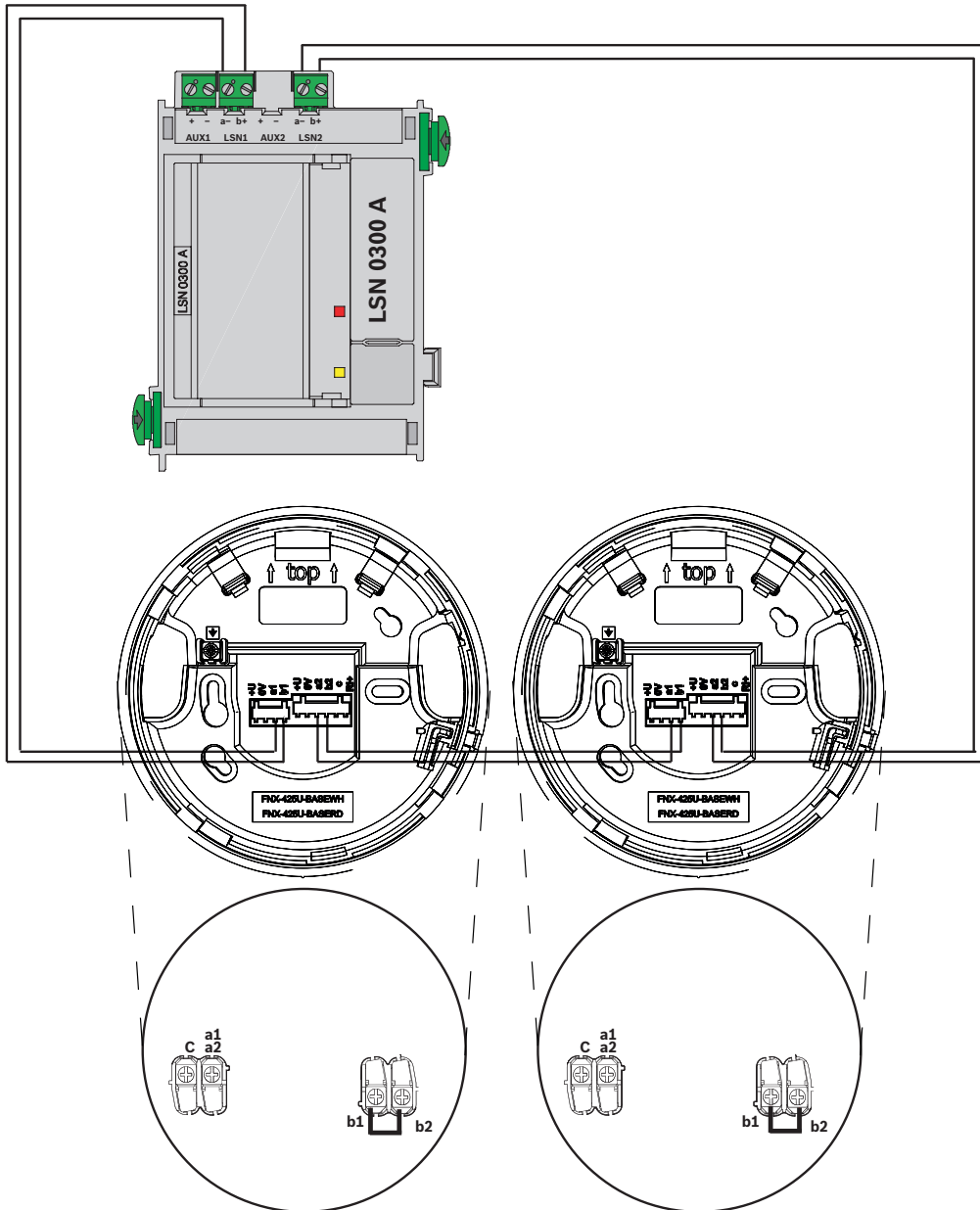
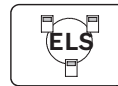
**FNX-425U-WFWH**  
**FNX-425U-RFWH**  
**FNX-425U-WFRD**  
**FNX-425U-RFRD**

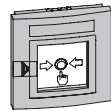
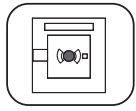




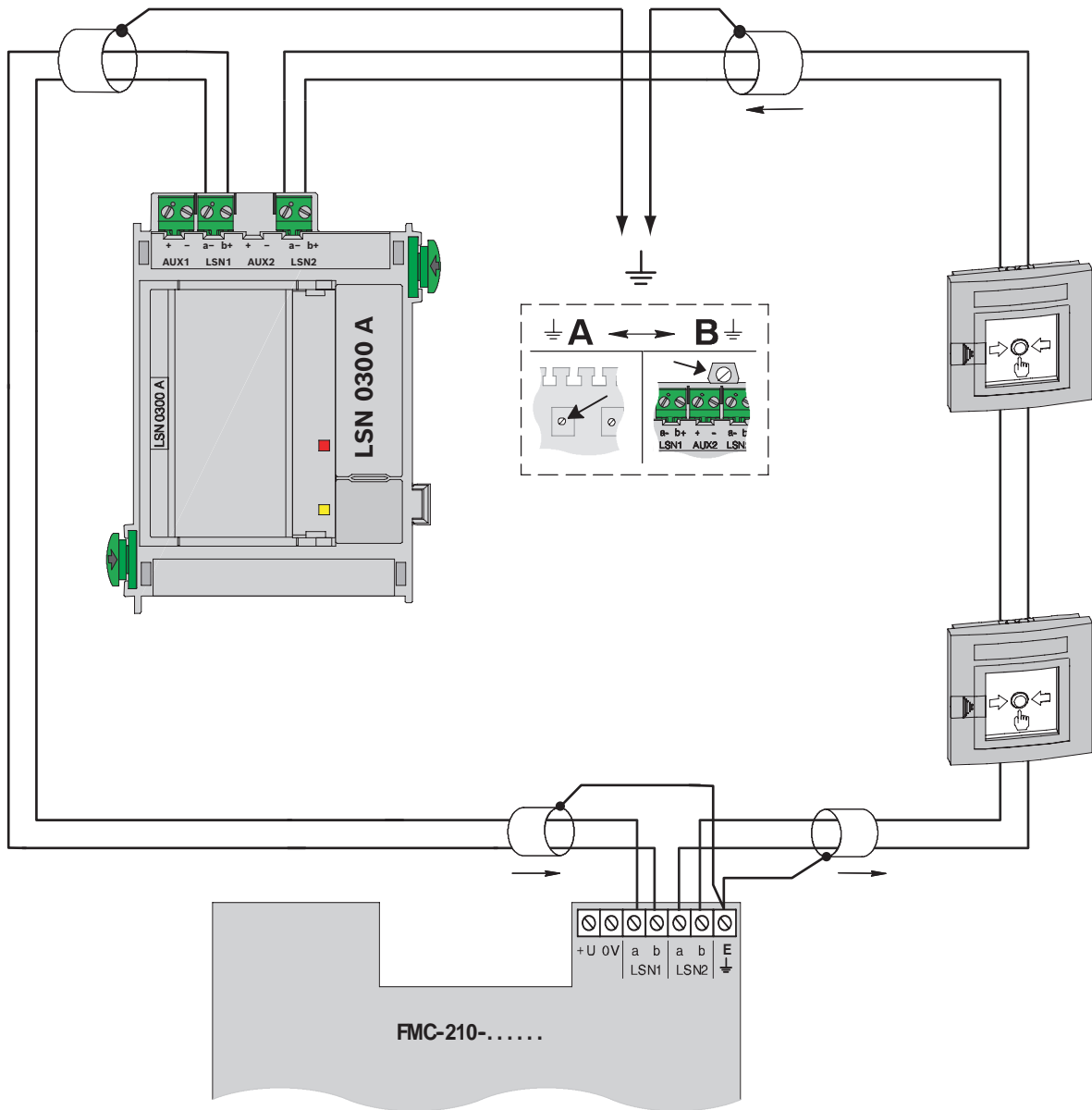
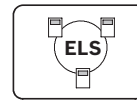
FNX-425U-WFWH  
 FNX-425U-RFWH  
 FNX-425U-WFRD  
 FNX-425U-RFRD

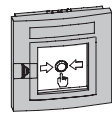
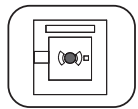
+ FNX-425U-COVWH  
 FNX-425U-COVRD



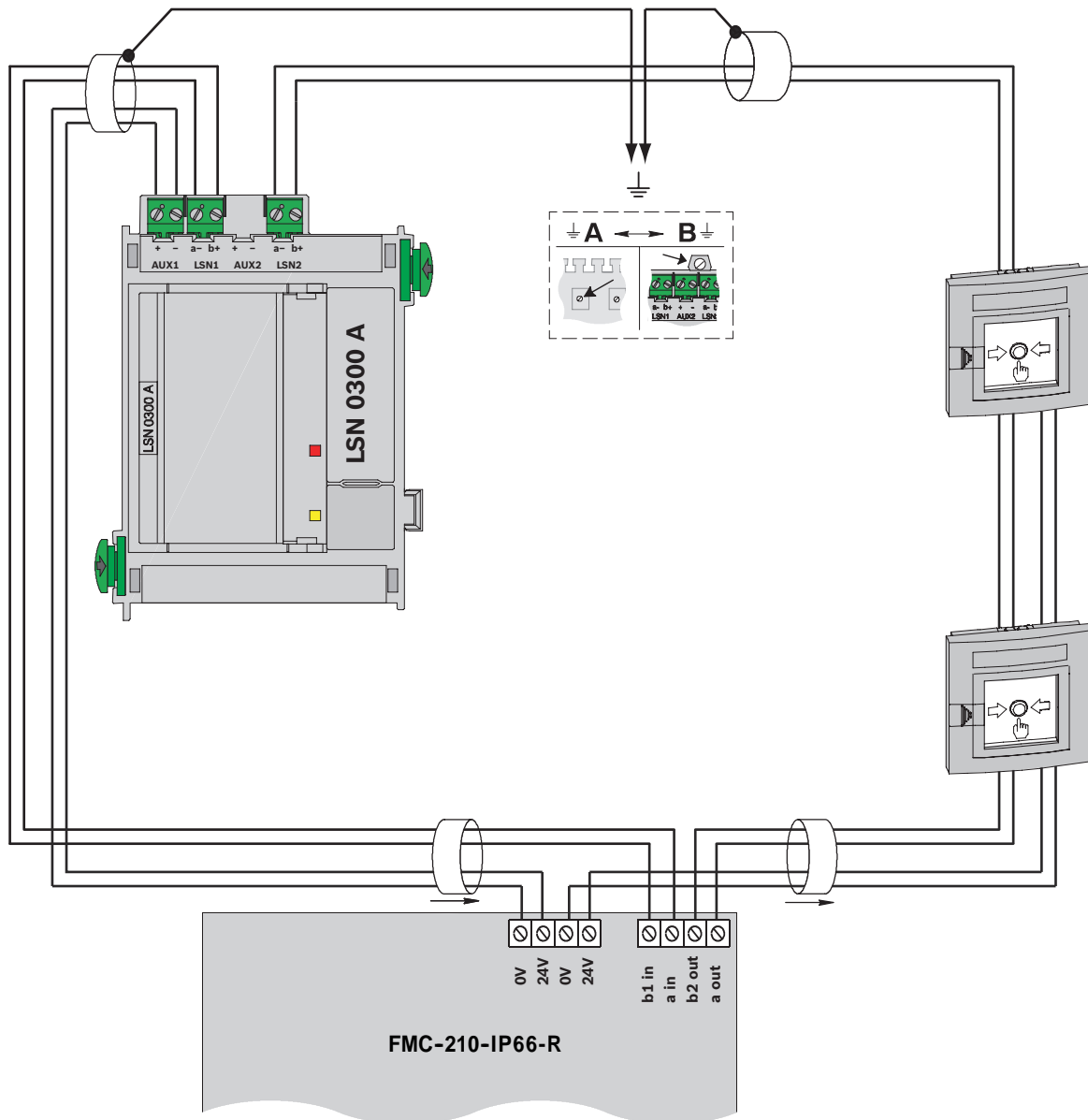
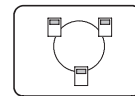


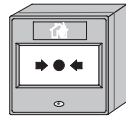
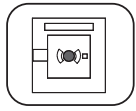
FMC-210...



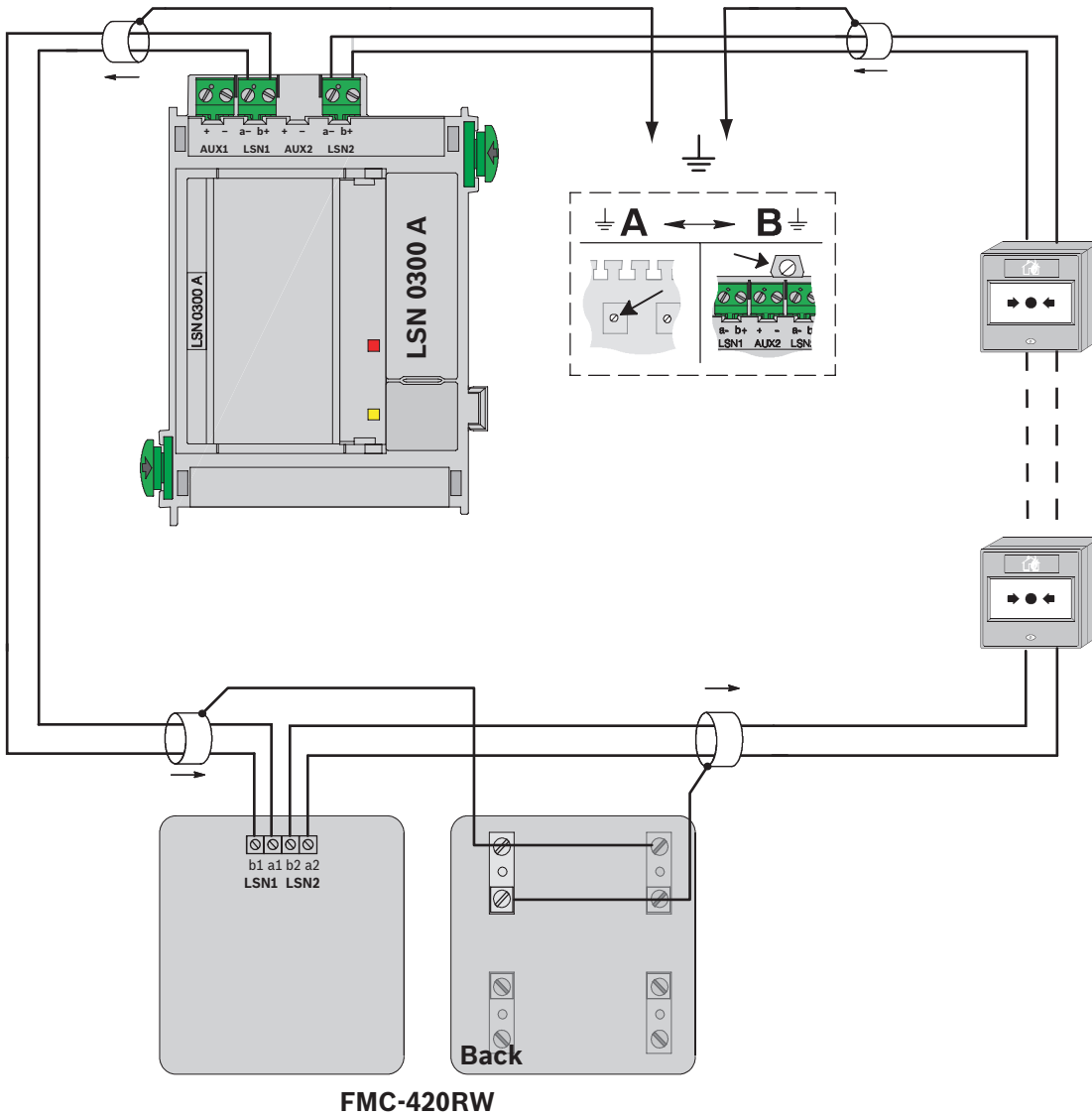
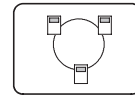


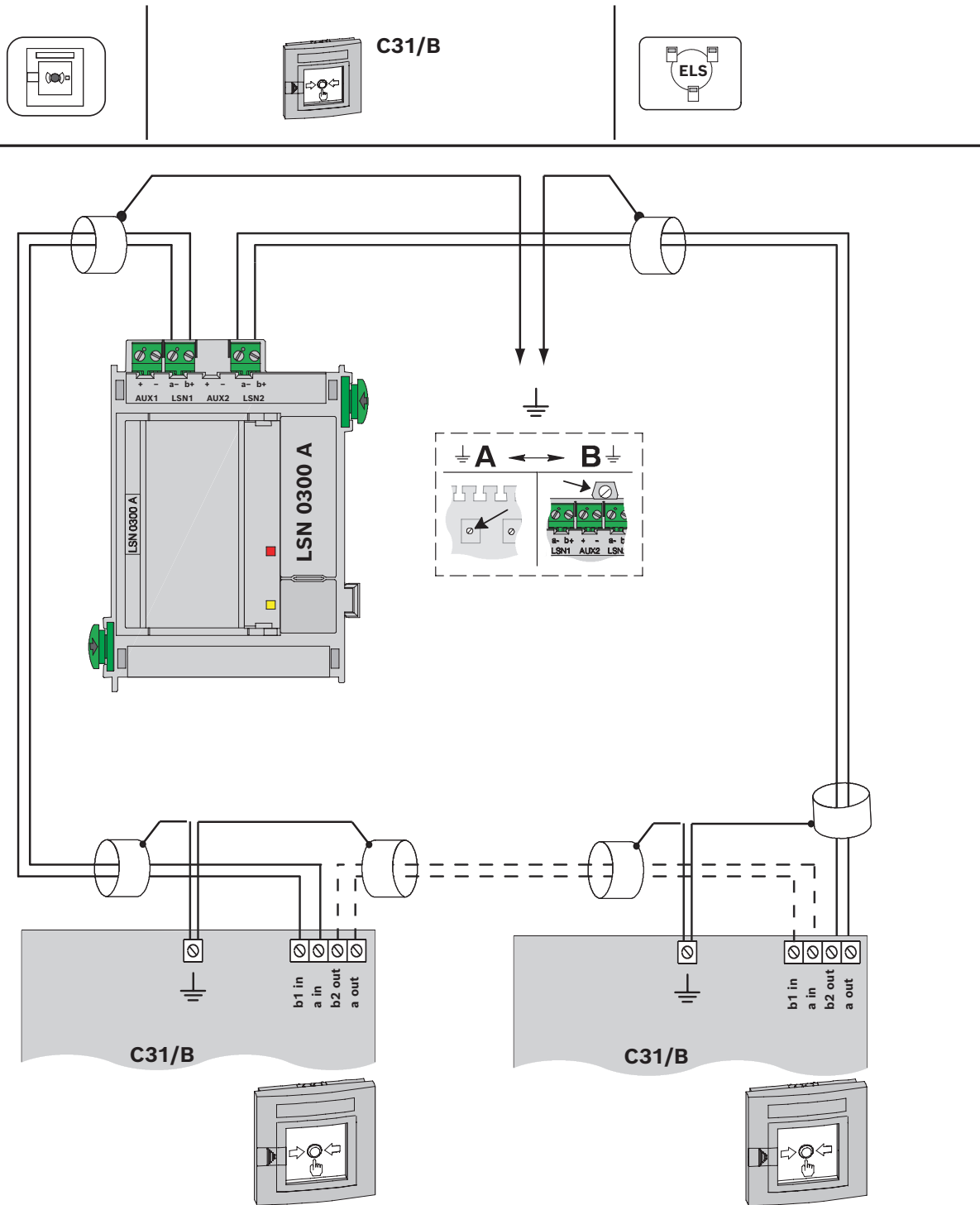
**FMC-210-IP66-R**

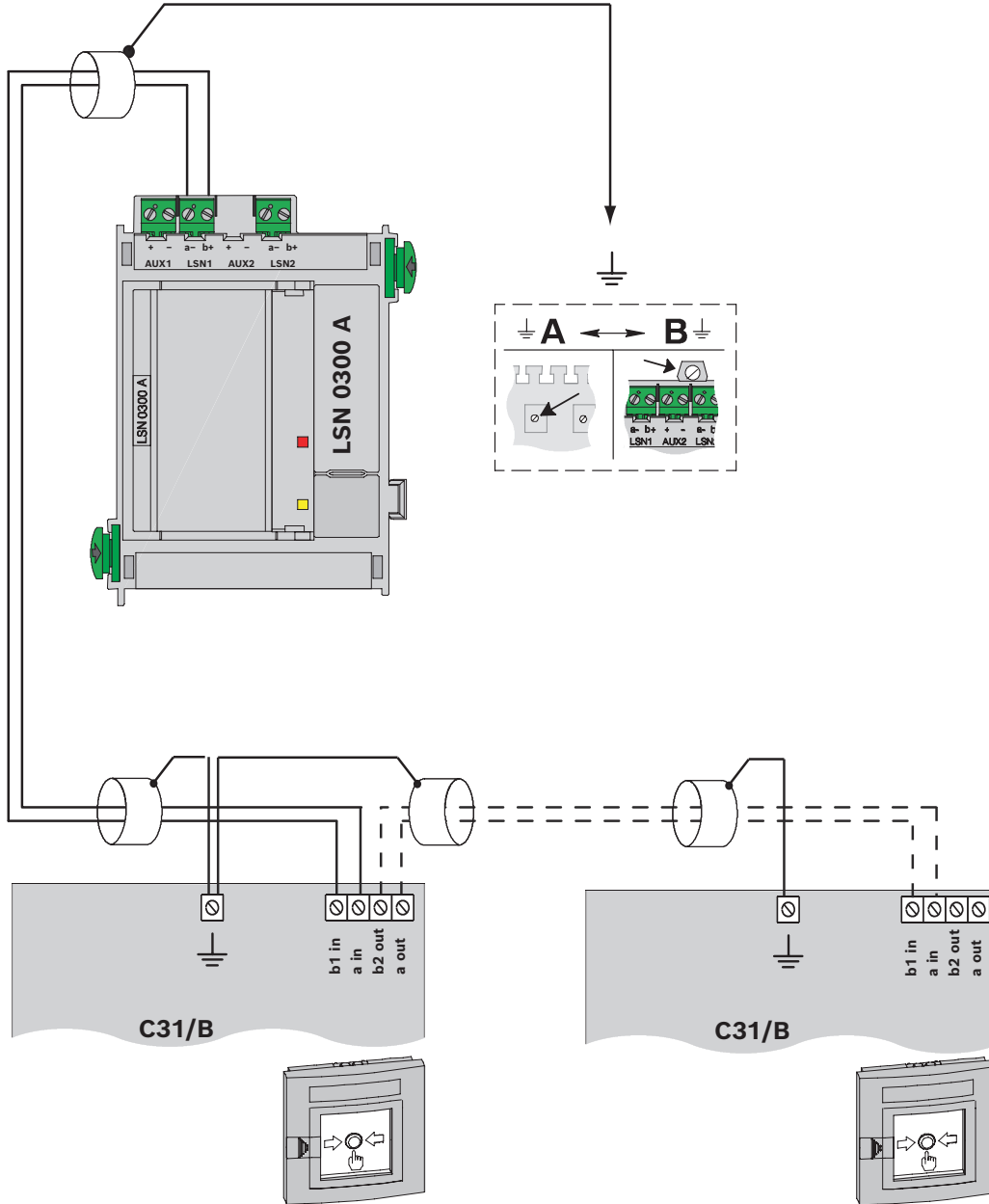
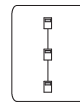
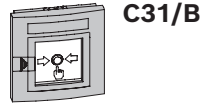
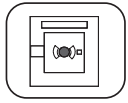




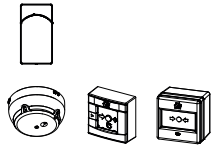
FMC-420RW-HSGRD  
 FMC-420RW-HSRRD  
 FMC-420RW-GFGRD  
 FMC-420RW-GFRRD  
 FMC-420RW-GSGRD  
 FMC-420RW-GSRRD









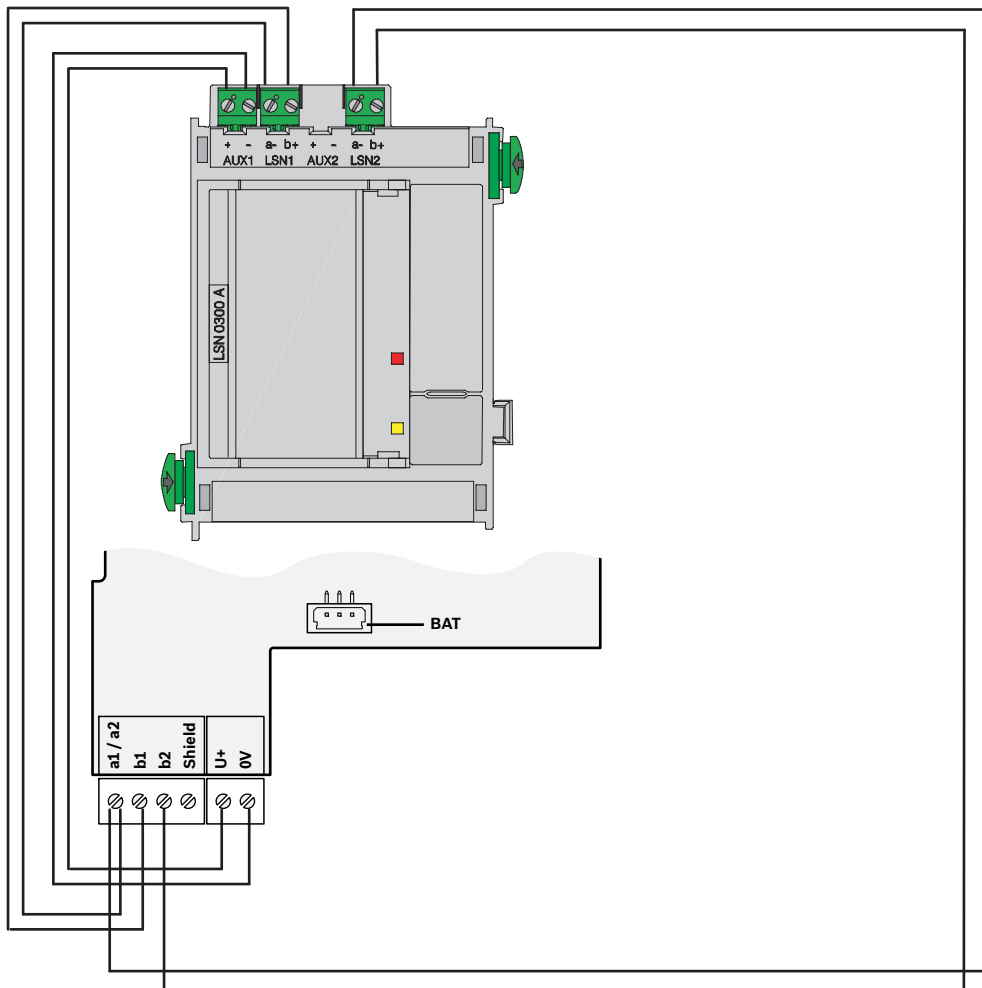
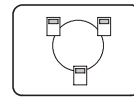


**FWI-270**

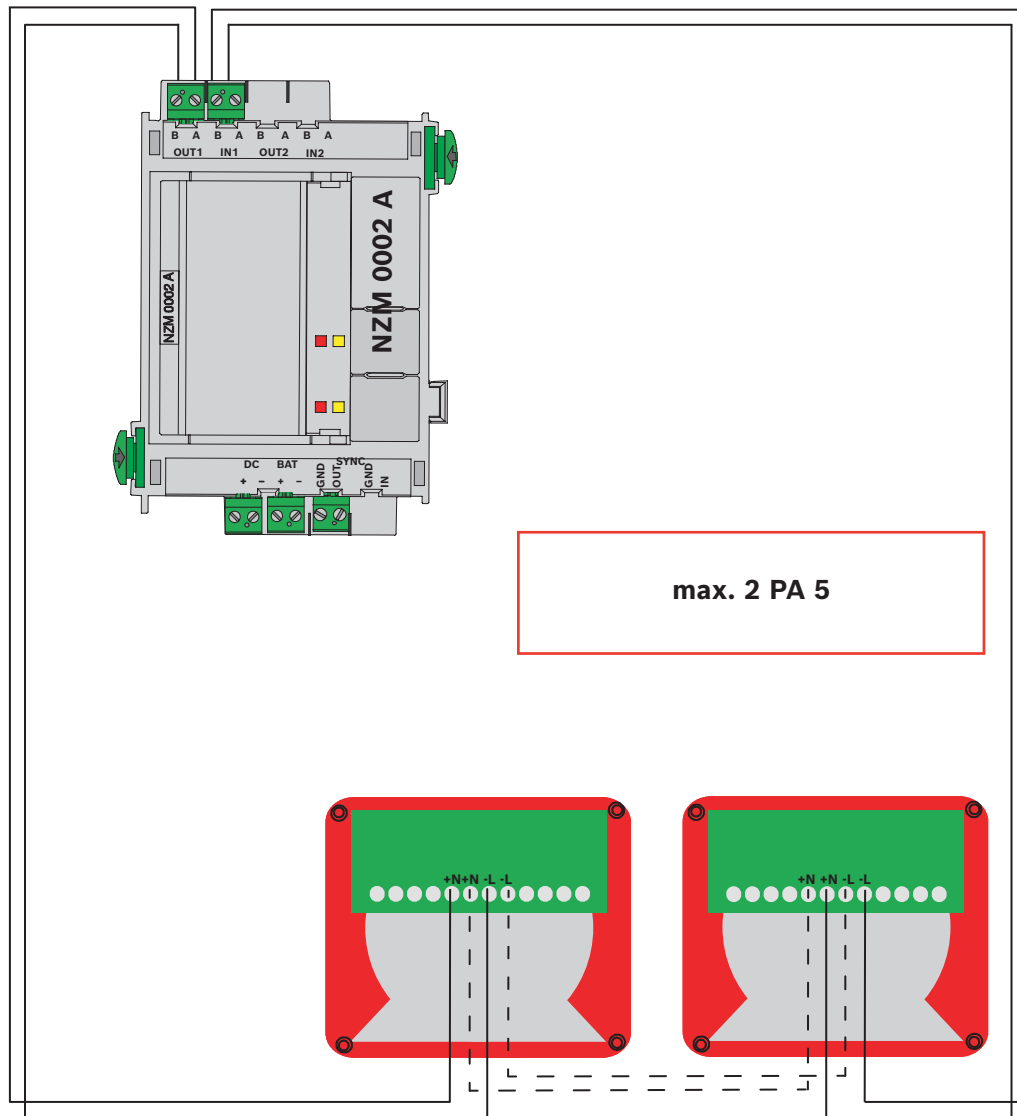
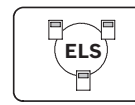
**FDOOT271-O**

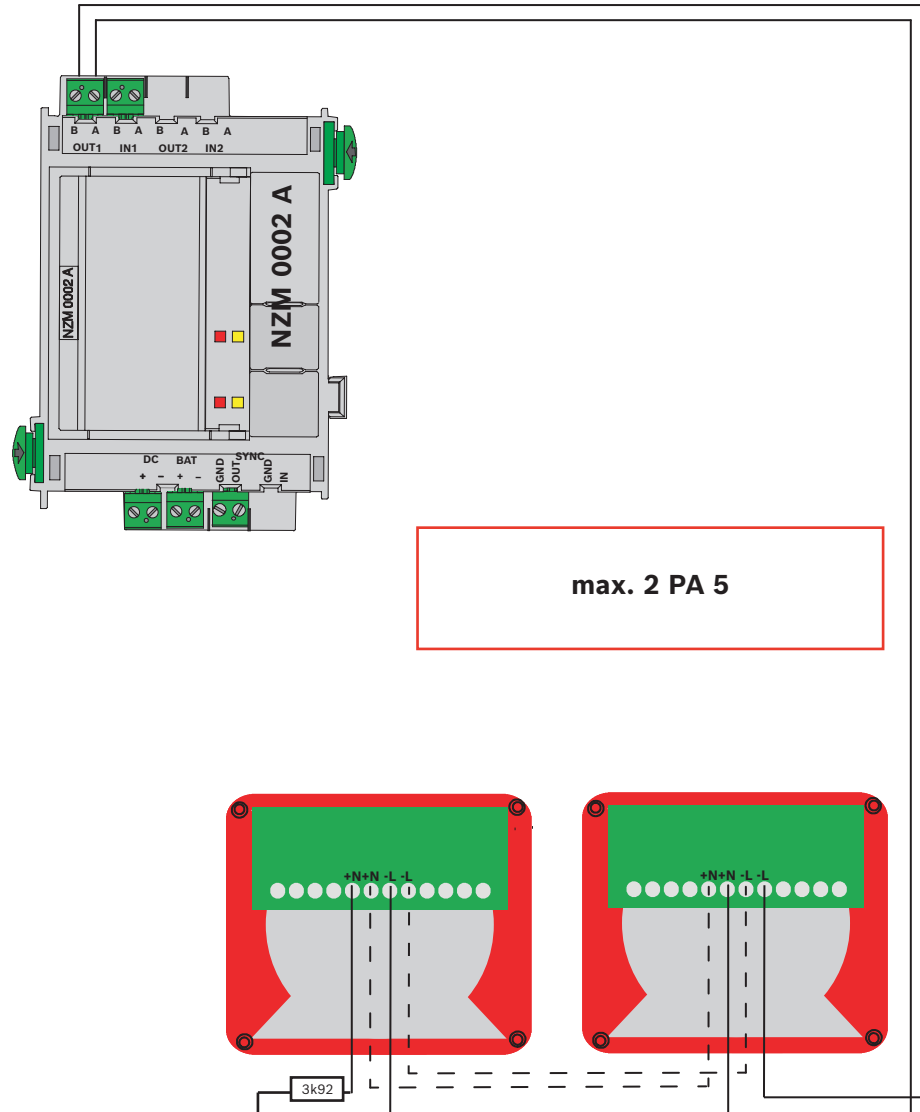
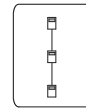
**FDM275-O**

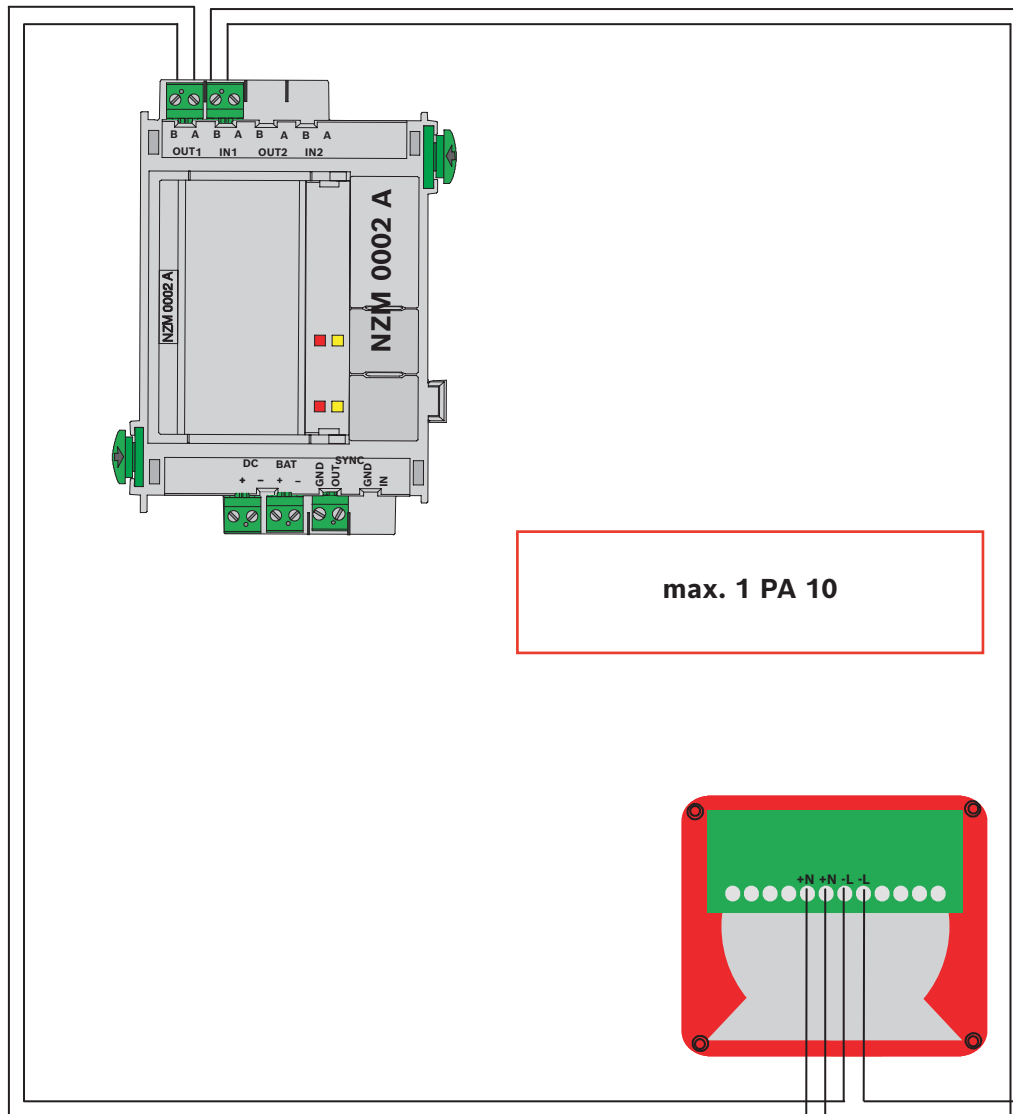
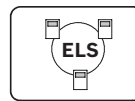
**FDM273-O**

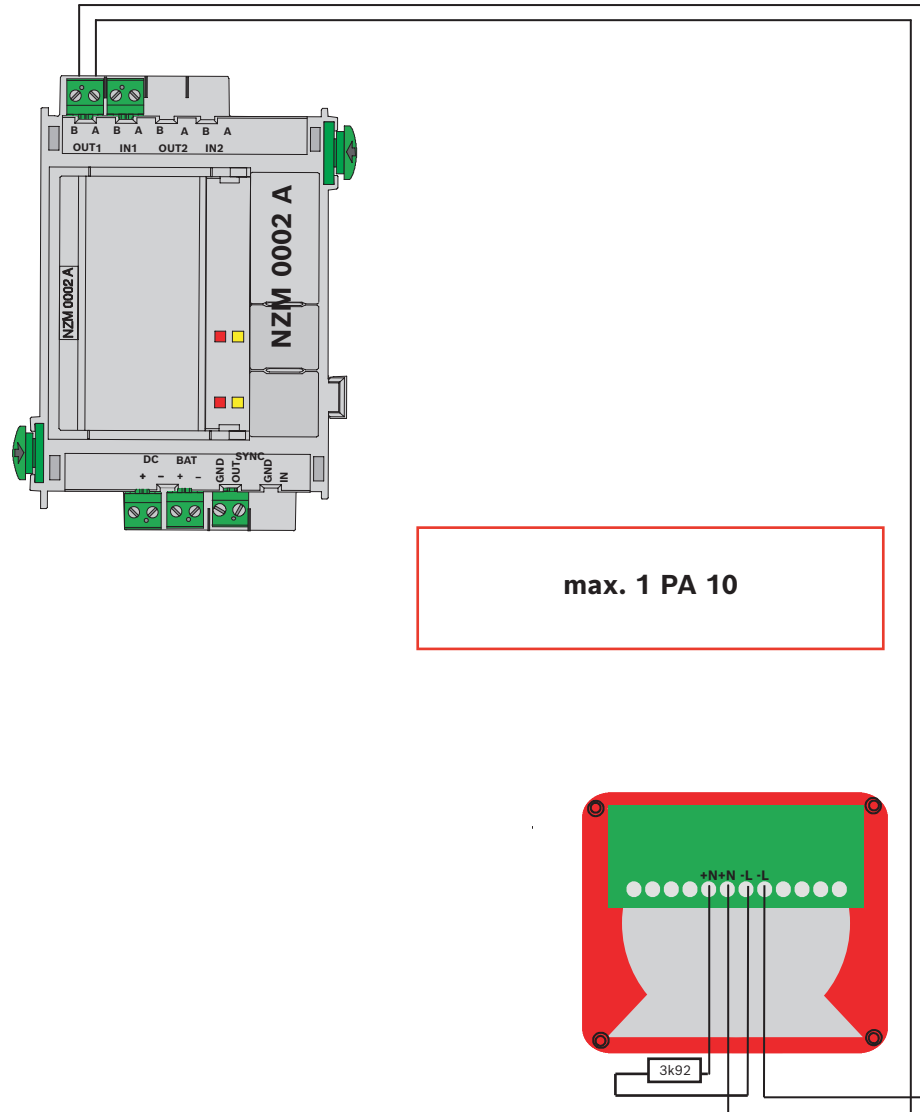
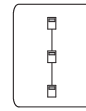


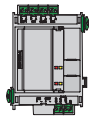
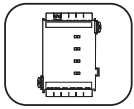
### 2.4.5 NZM 0002 A



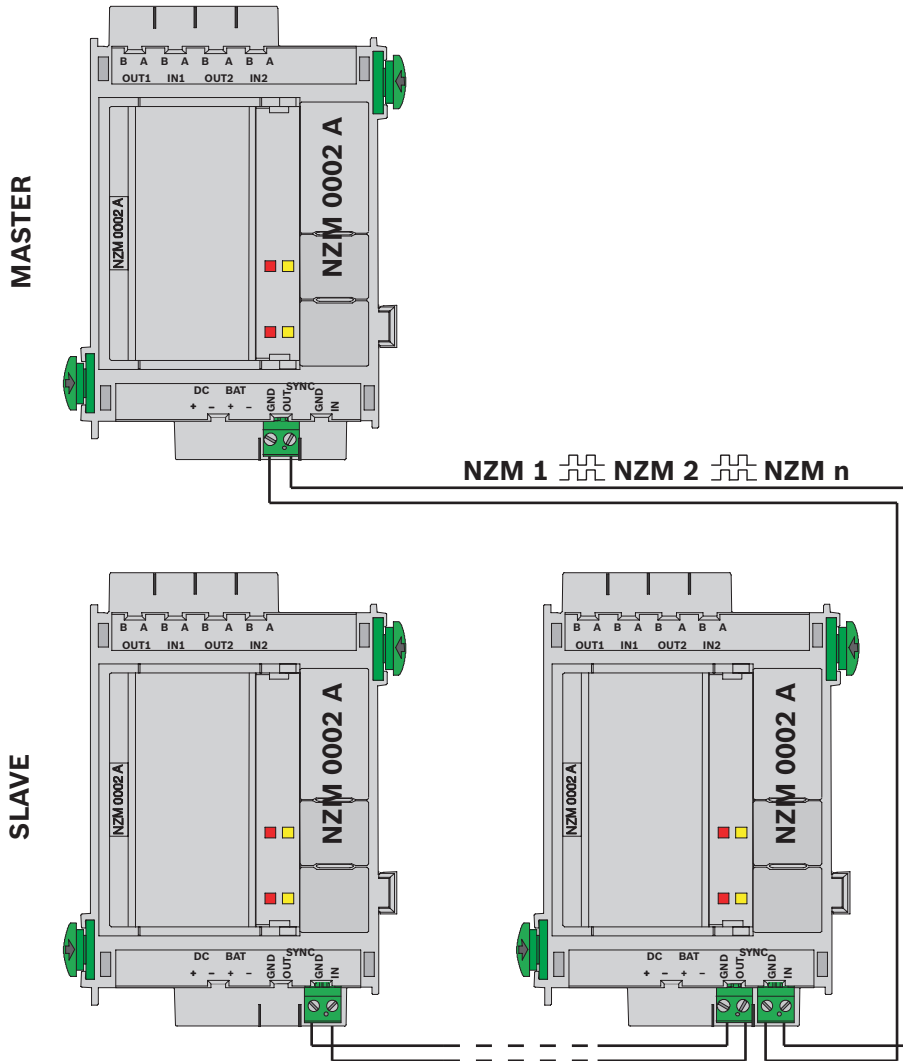


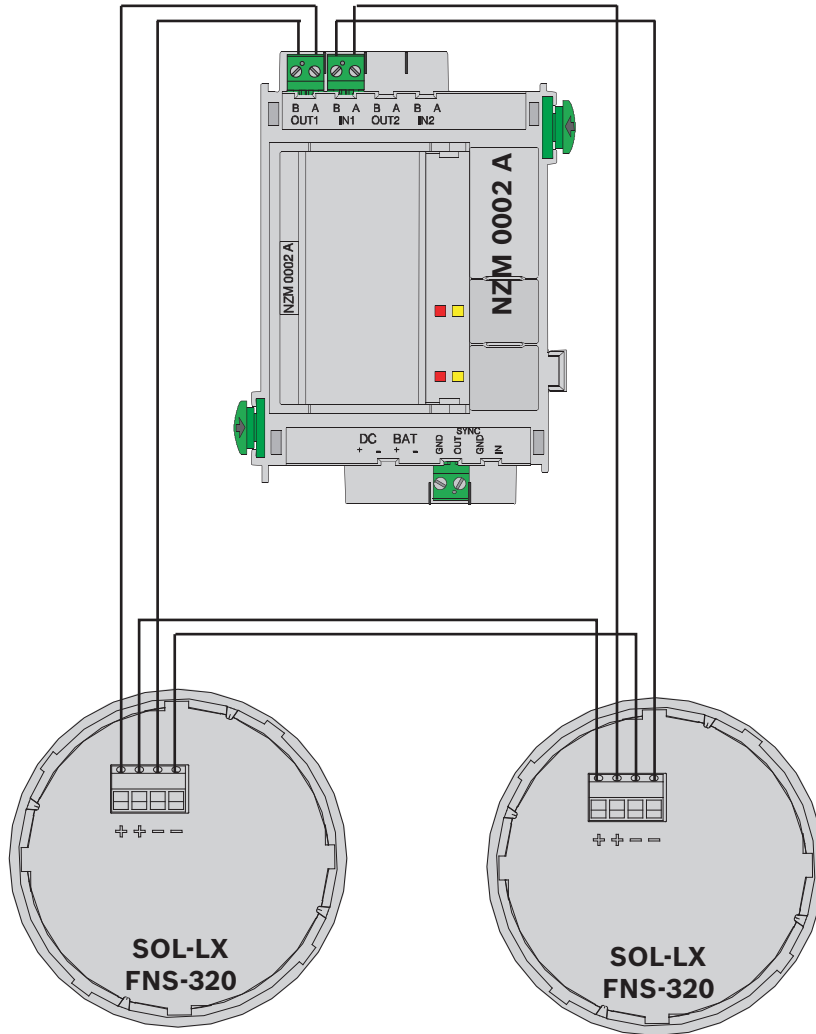
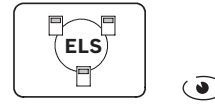


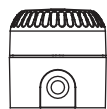




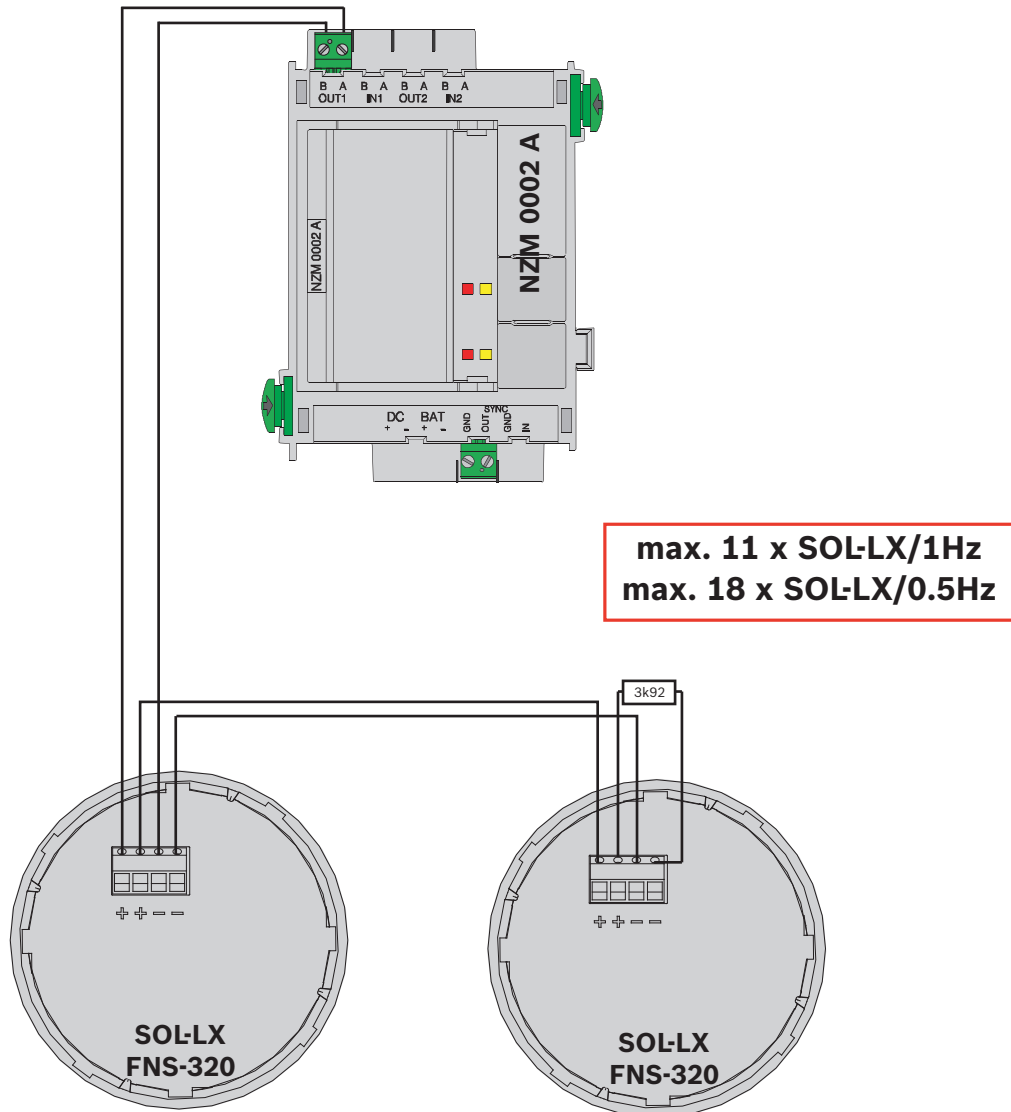
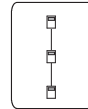
NZM 0002 A



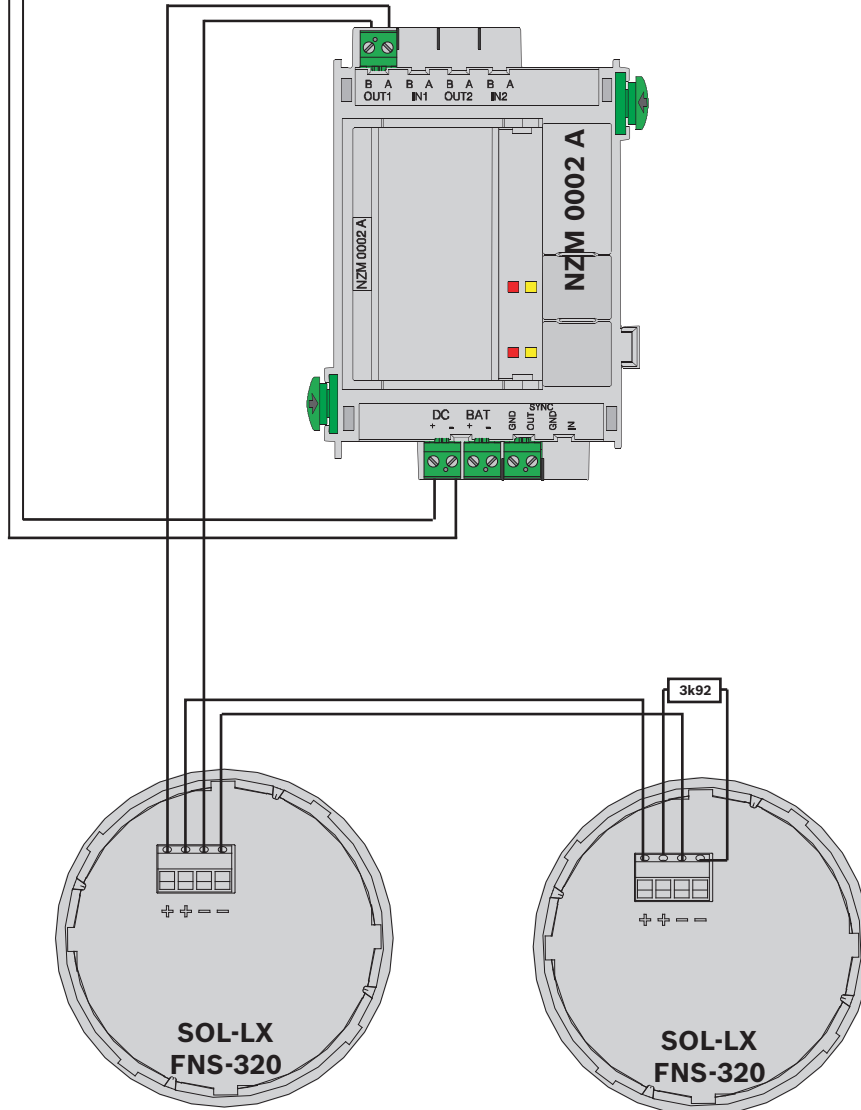
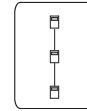
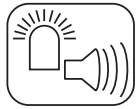


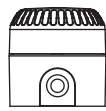


**SOL-LX  
FNS-320**

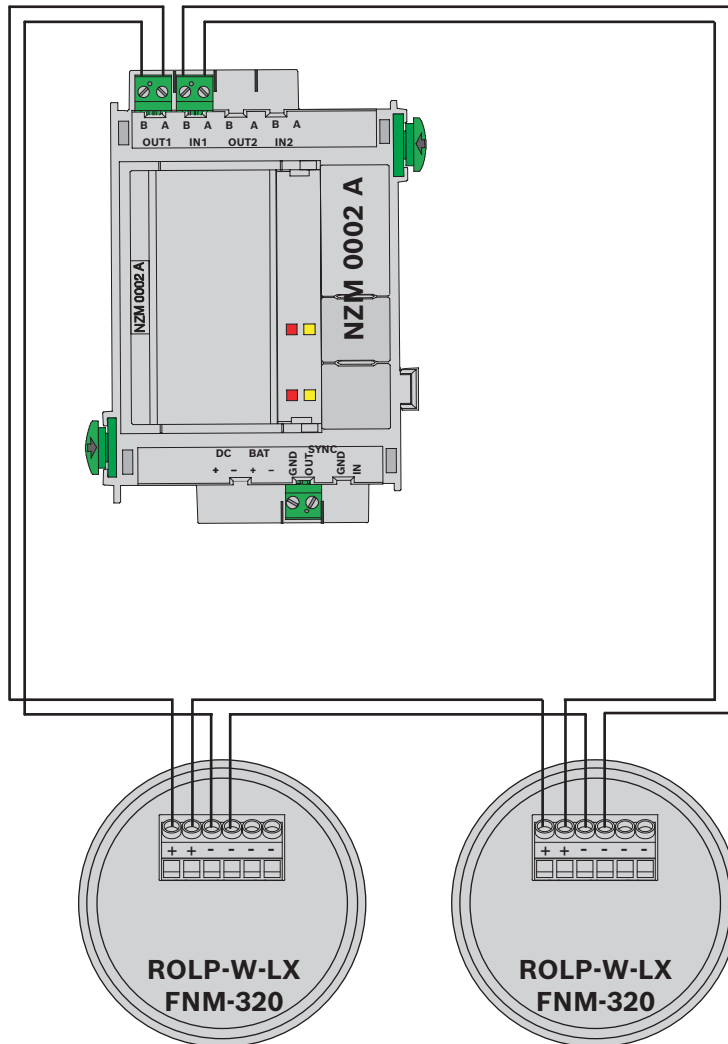
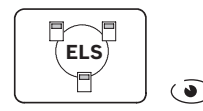


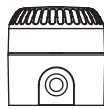




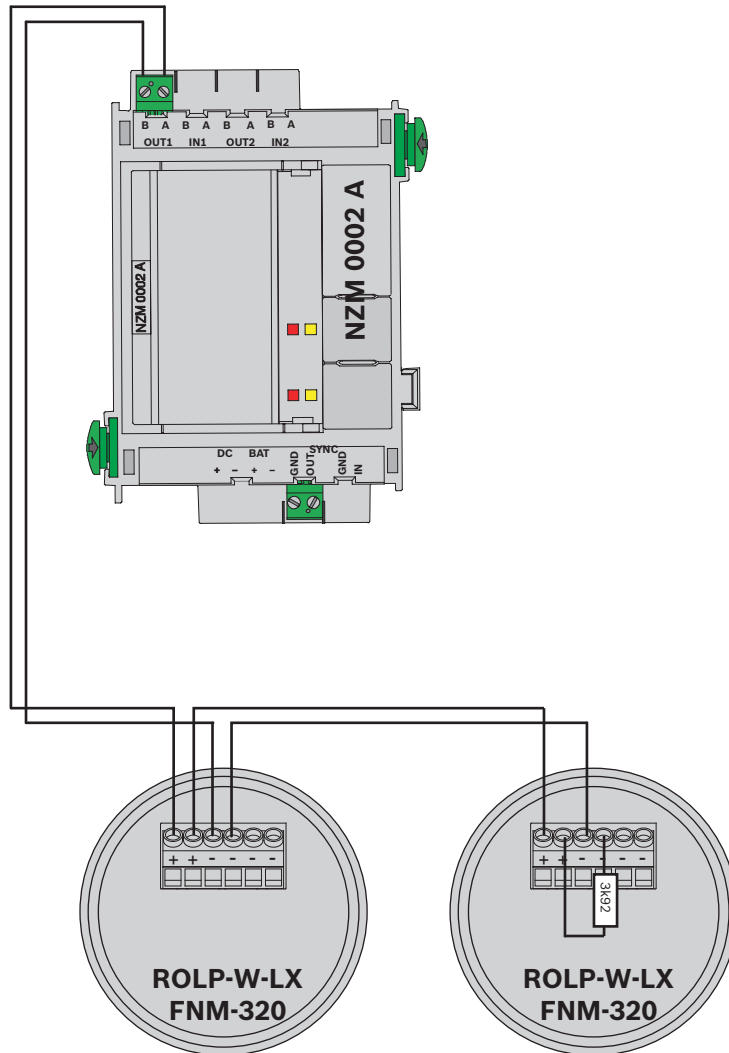
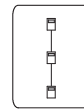


**ROLP-W-LX  
FNM-320**



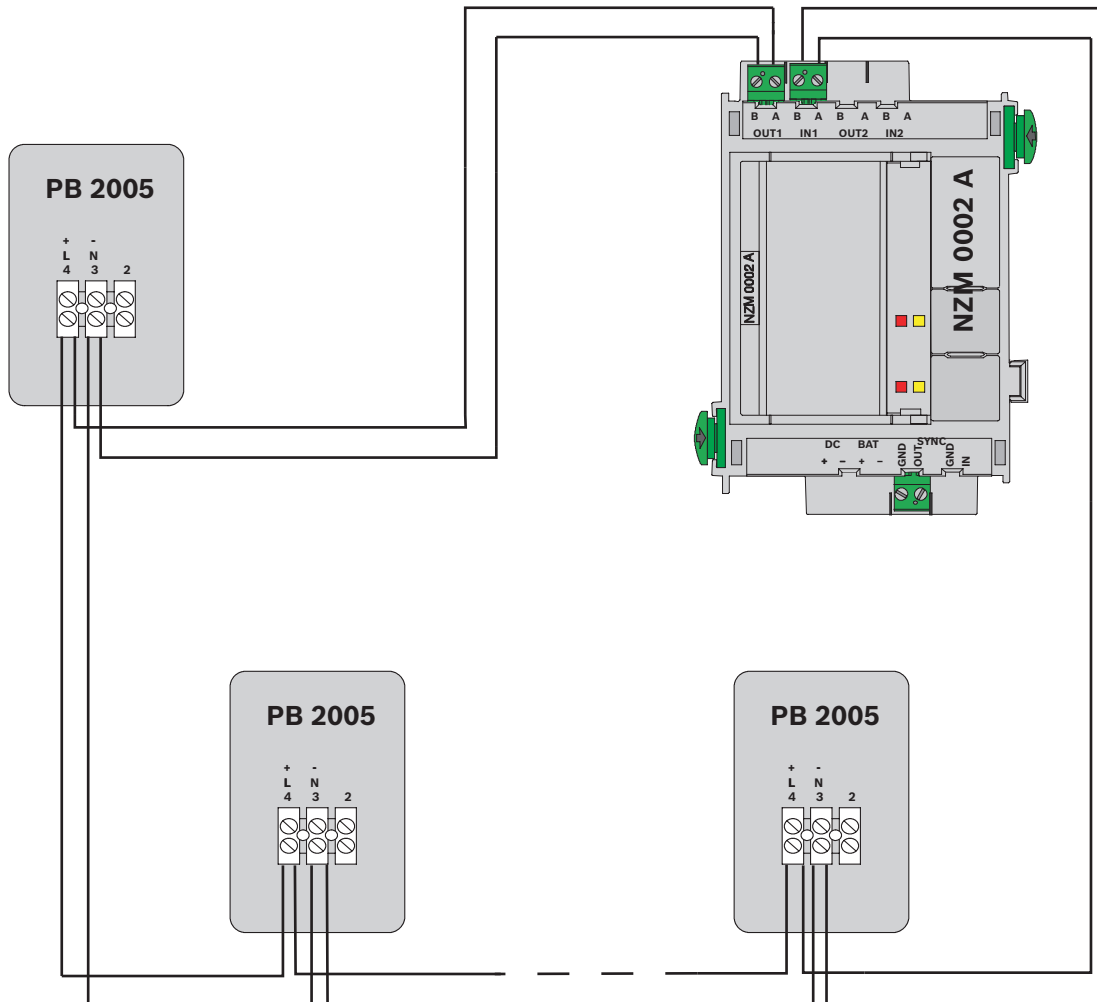
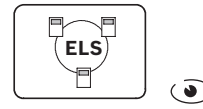


**ROLP-W-LX  
FNM-320**



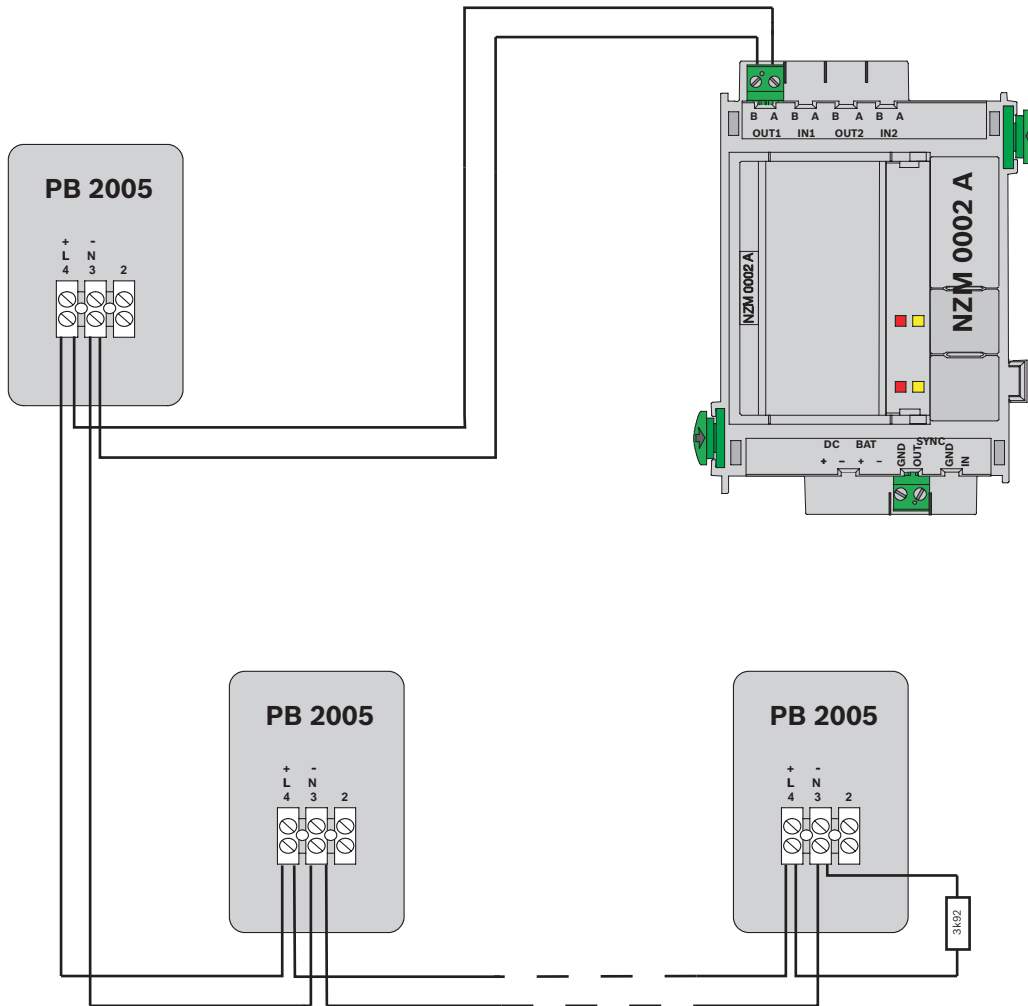
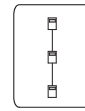


PB 2005



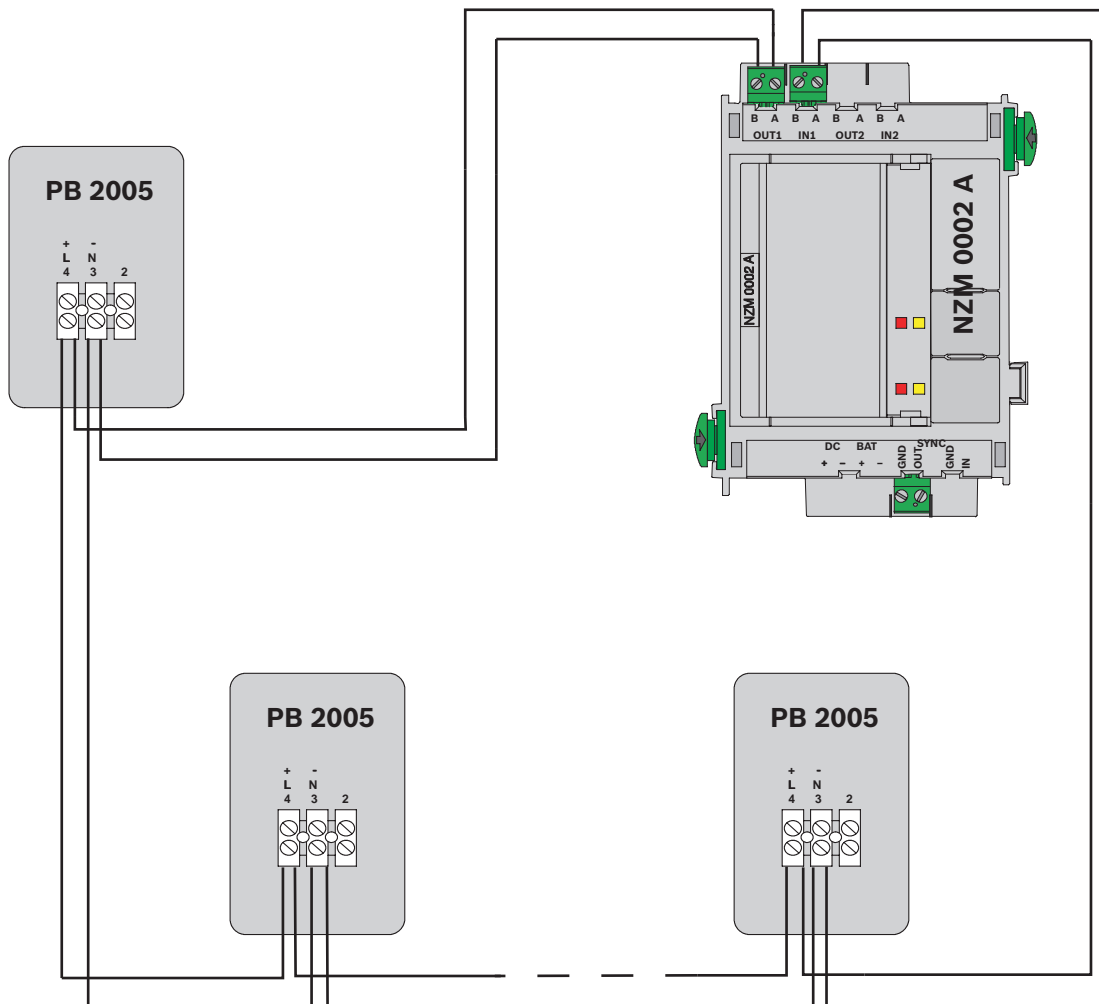
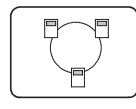


**PB 2005**



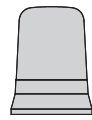


**PB 2005**

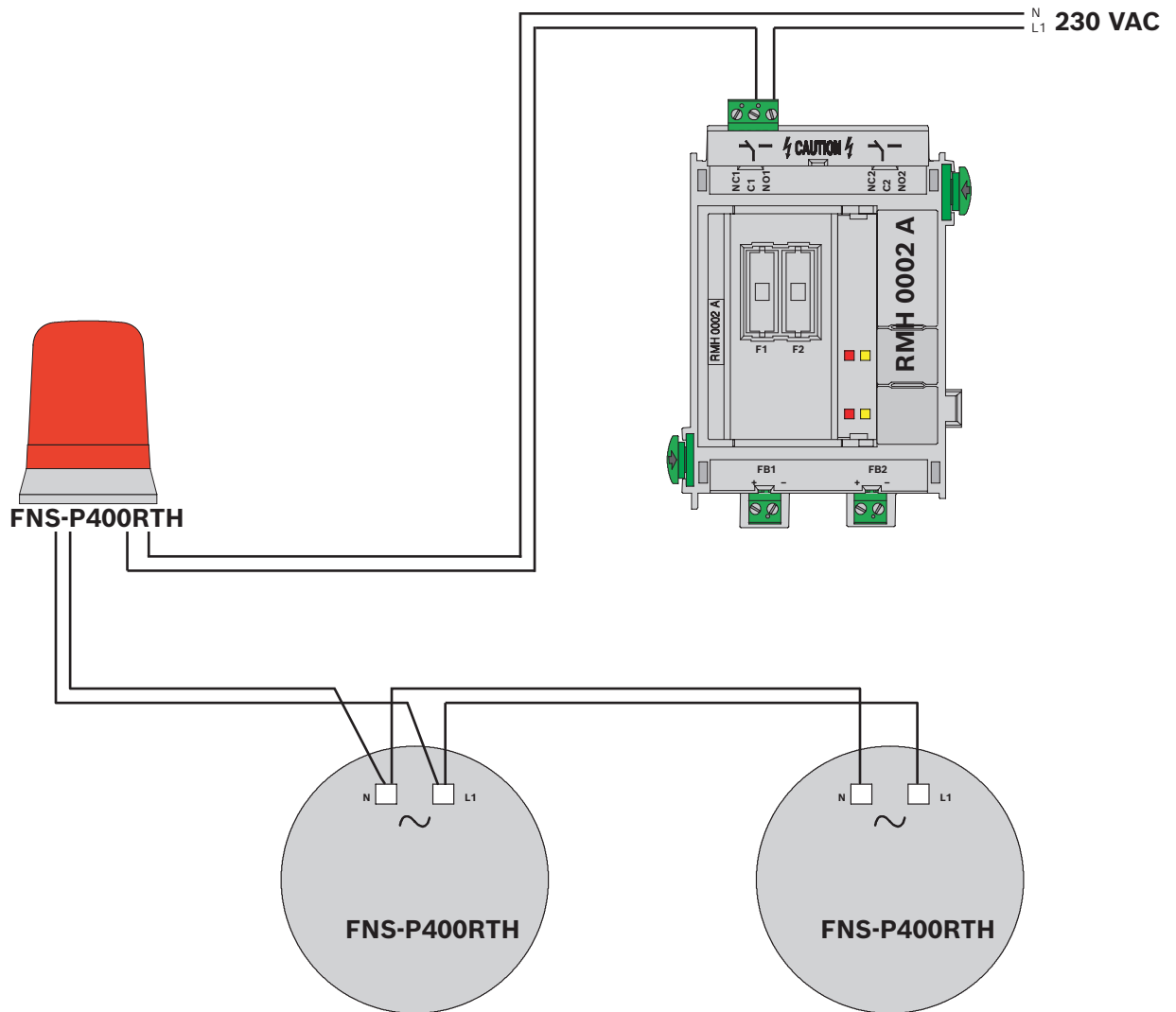
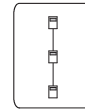


2.4.6

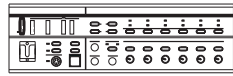
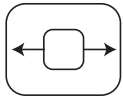
RMH 0002 A



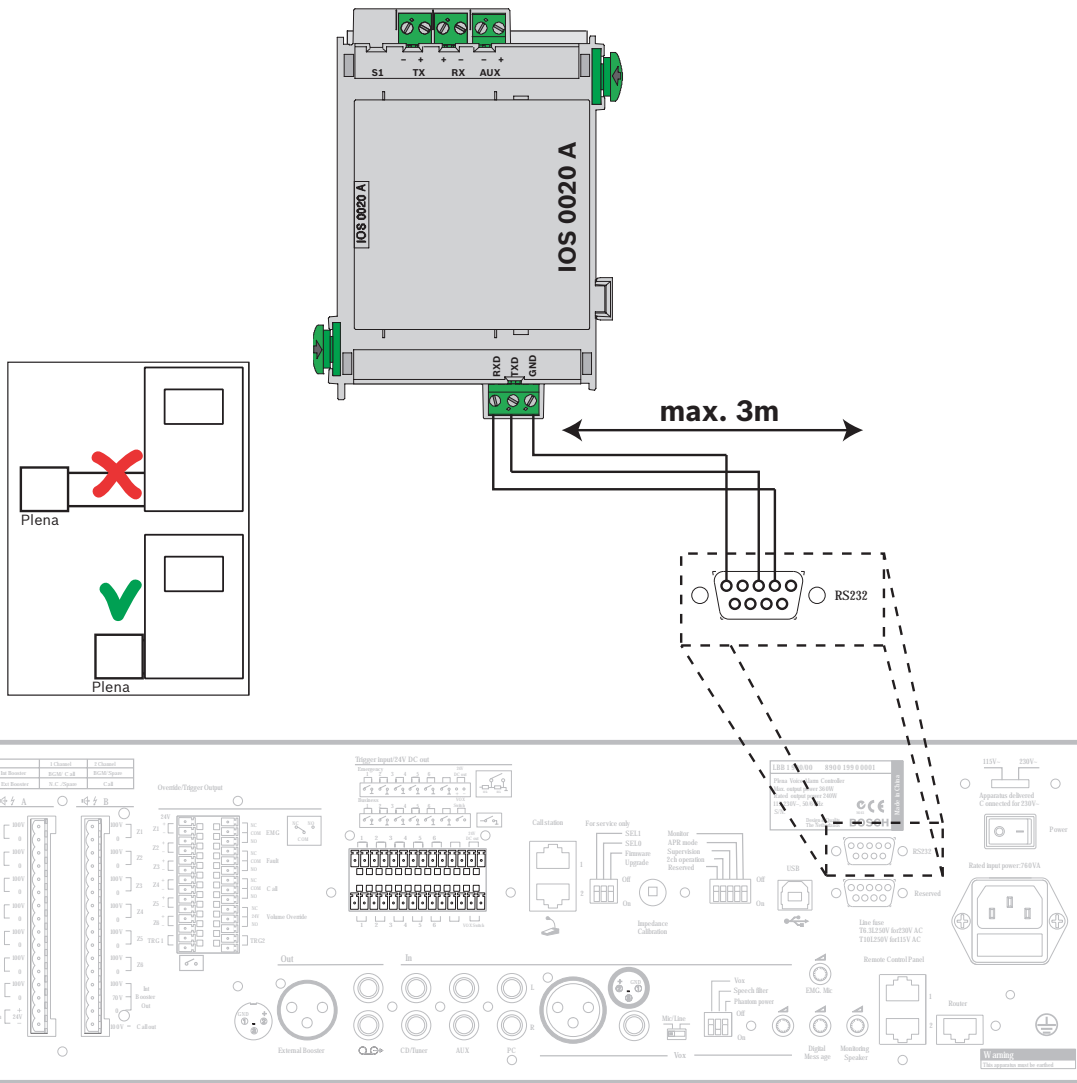
FNS-P400RTH



### 2.4.7 IOS 0020 A



Plena



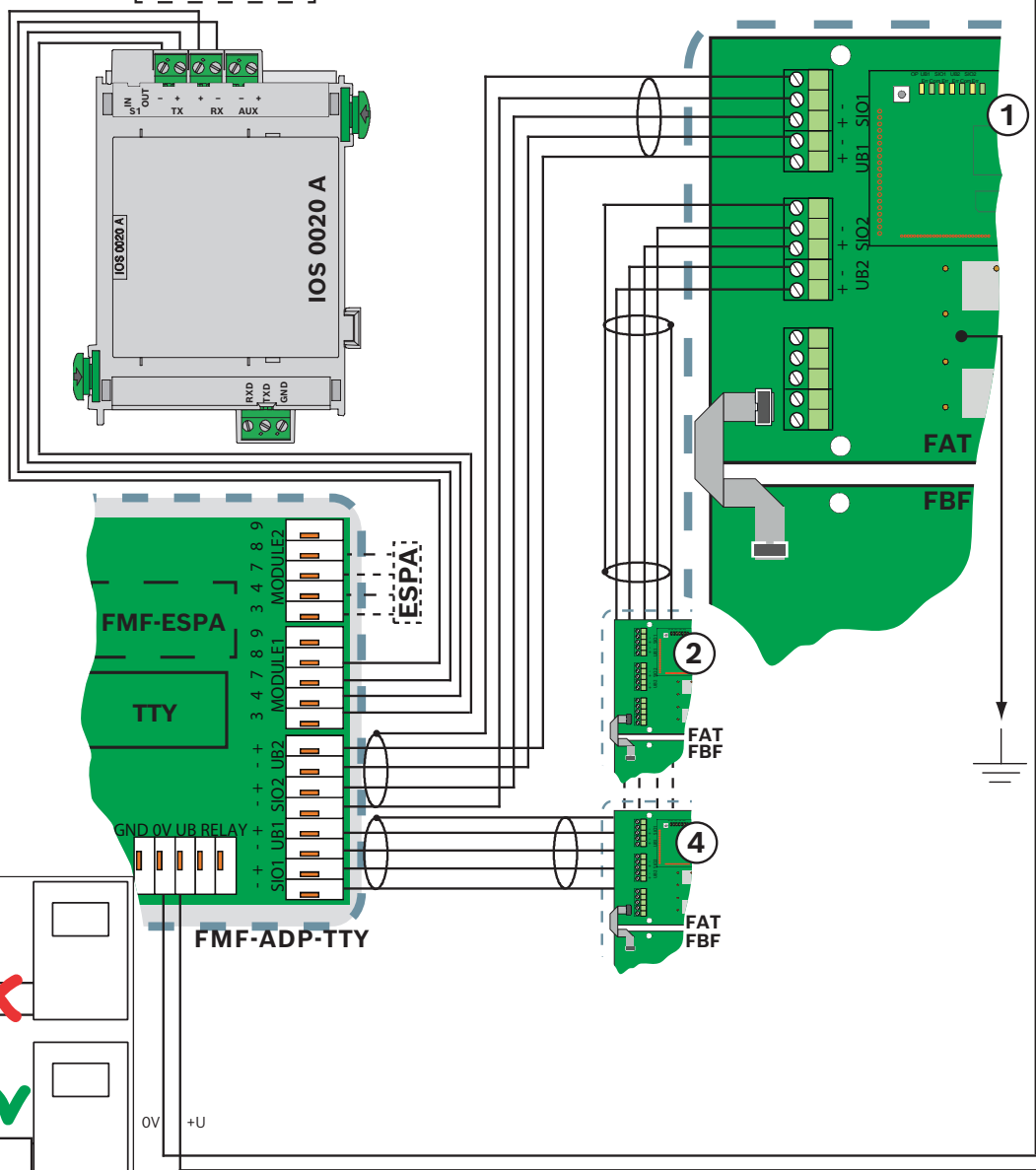
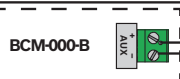




FAT4000 FBF4000 ADP4000

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

ELS

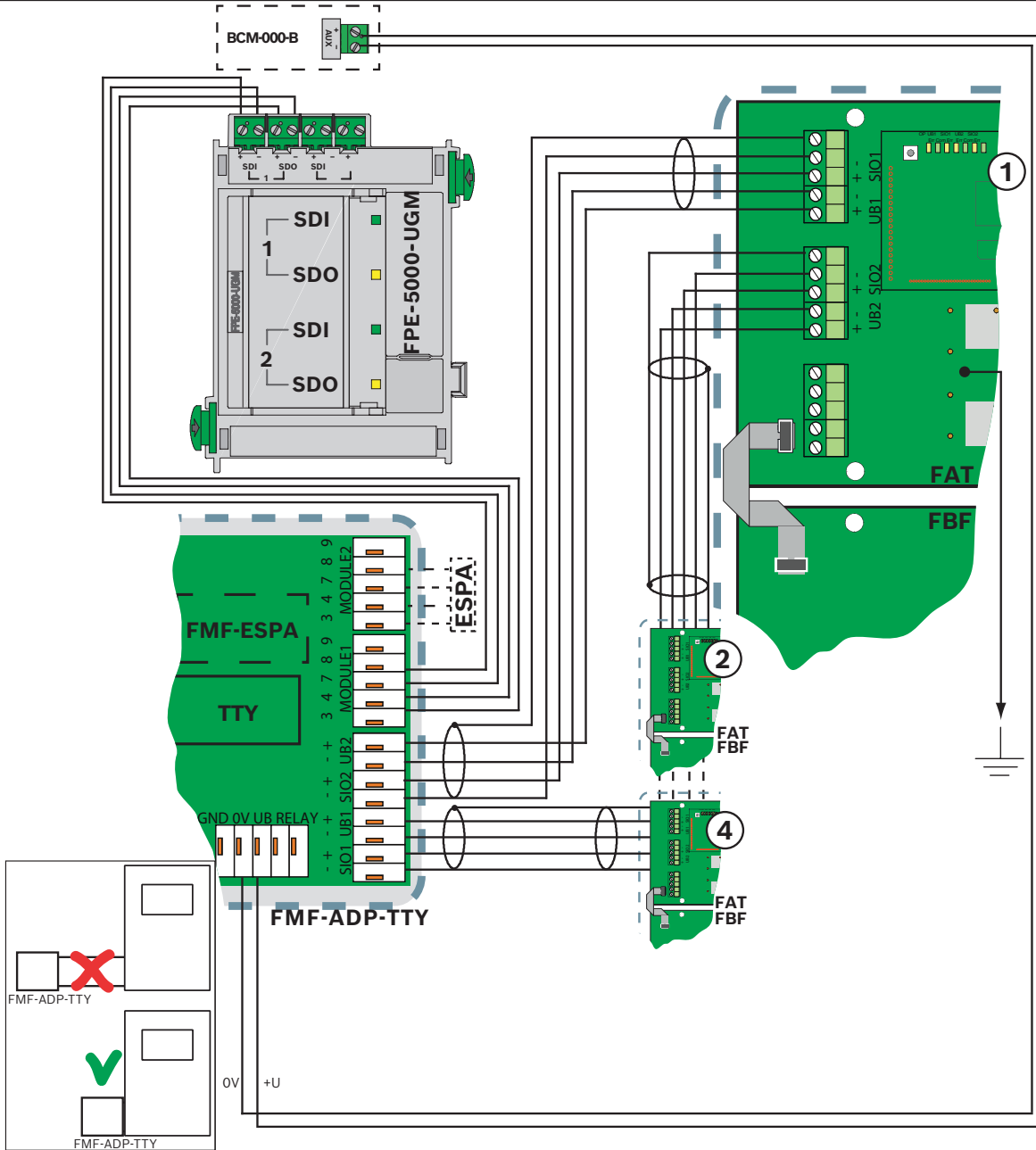


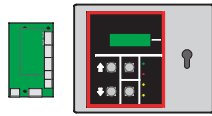
### 2.4.8 FPE-5000-UGM



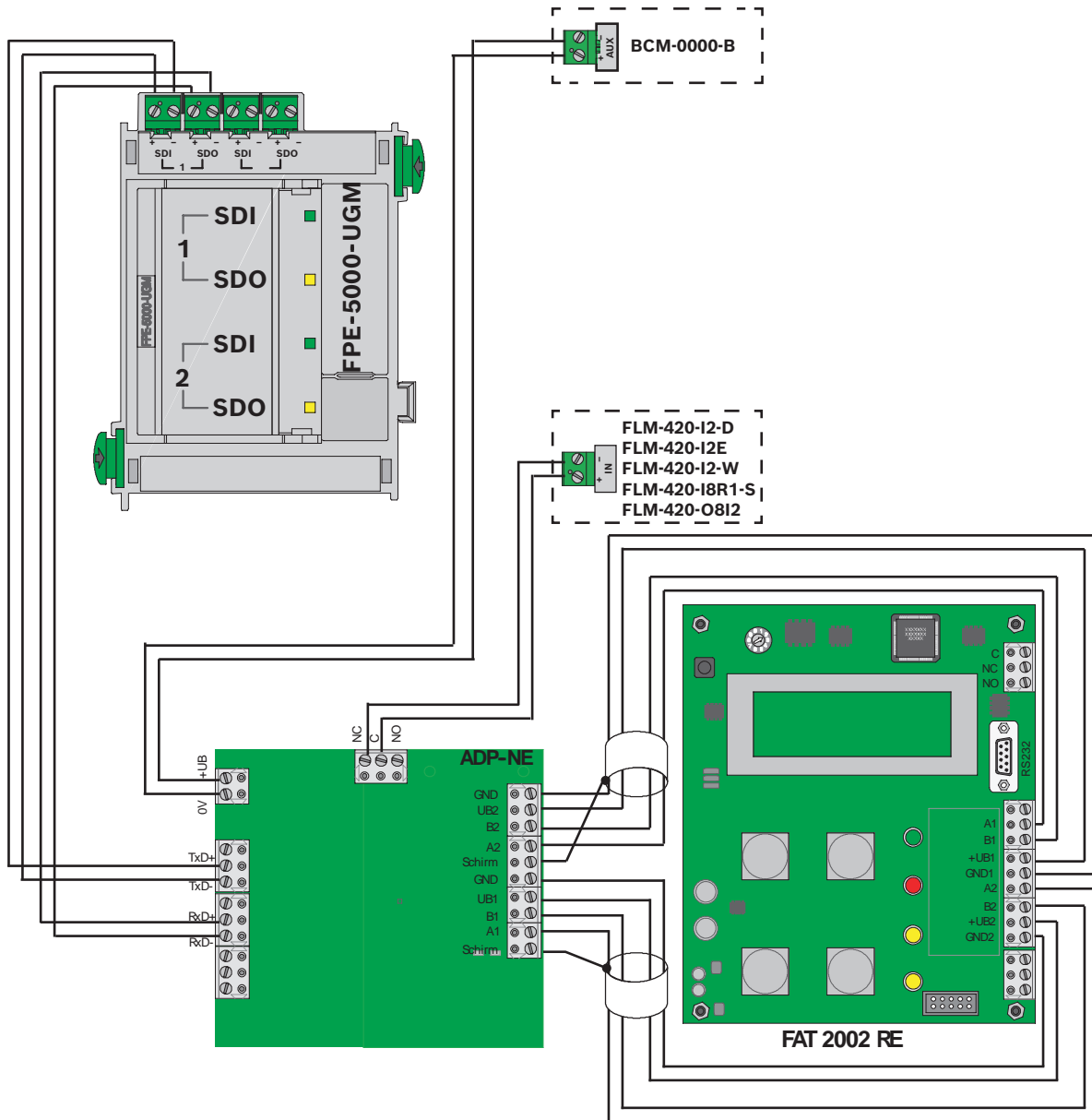
FAT4000 FBF4000 ADP4000  
 FMF-FAT FMF-FBF-FAT  
 FMF-FIBS-A4/-A3  
 FMF-ADP

ELS





**FAT2002RE  
ADP-NE**



## 2.5

### Interface Modules



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

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

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

*FLM-420-RHV, page 172*

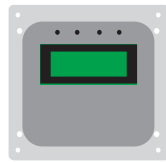
*FLM-420-RLE-S, page 184*

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

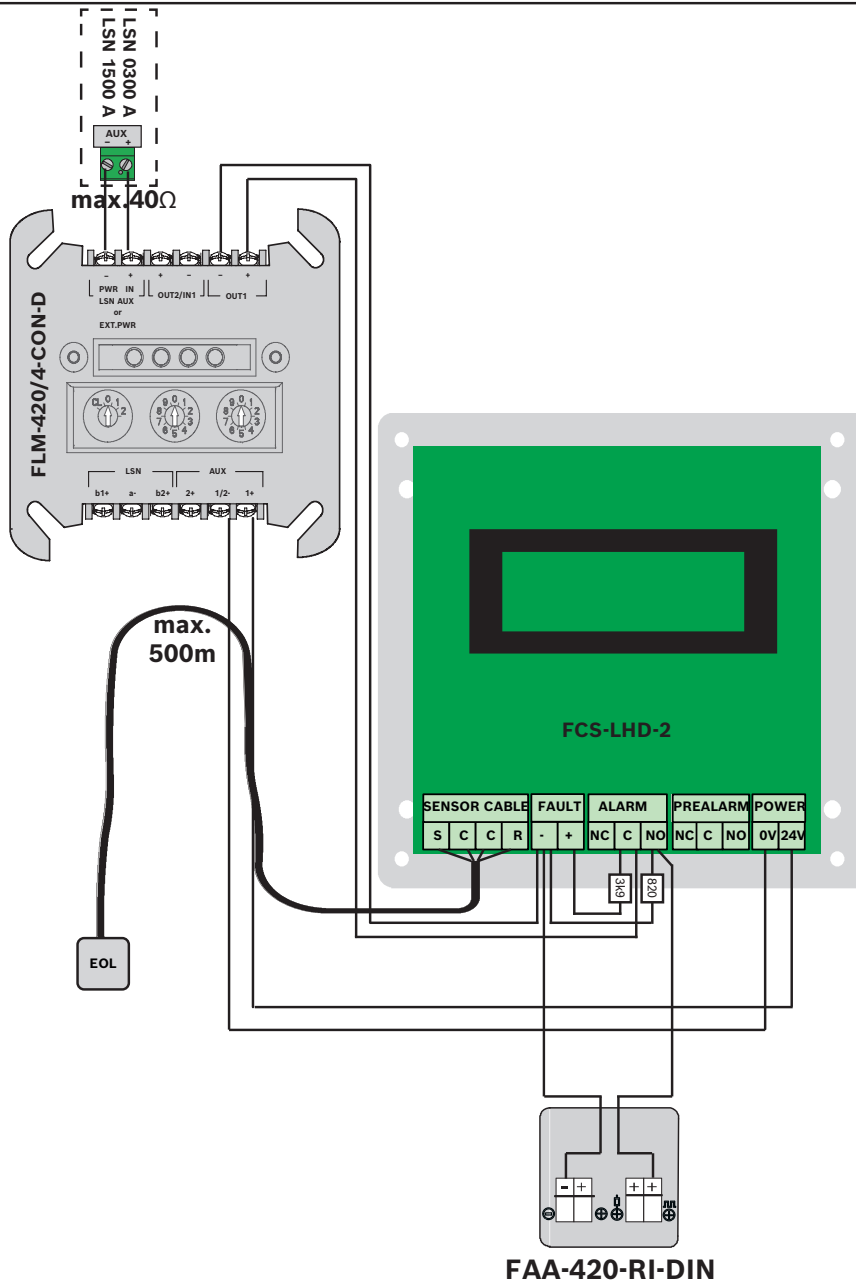
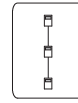
*FLM-420-RLV8-S, page 186*

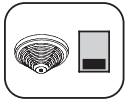
*FMF-ADP-FBF/FMF-ADP-TTY, page 187*

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

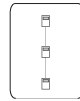


ALARMLINE II



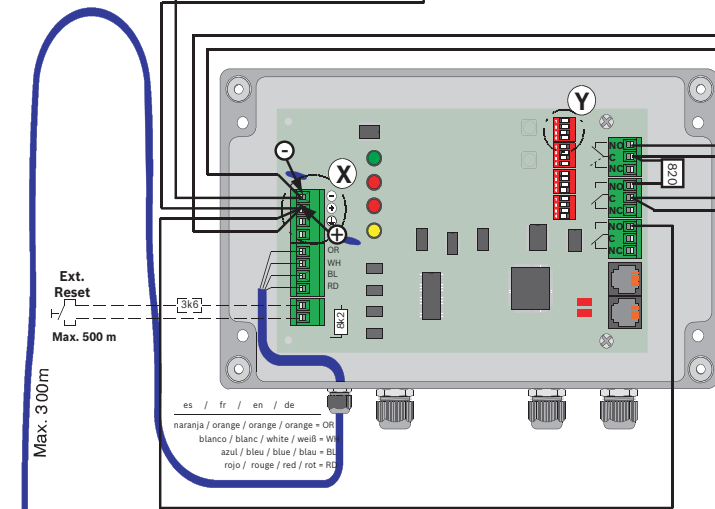
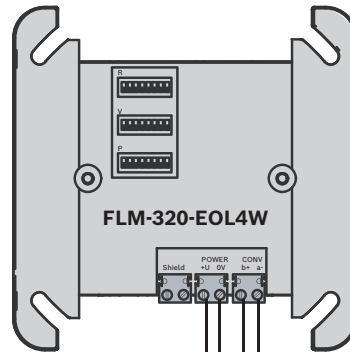
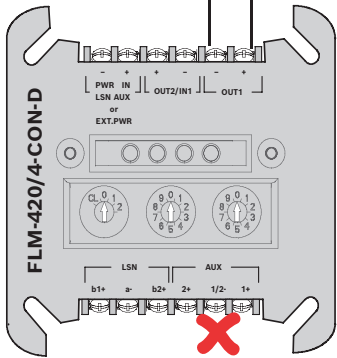


FCS-LWM-1



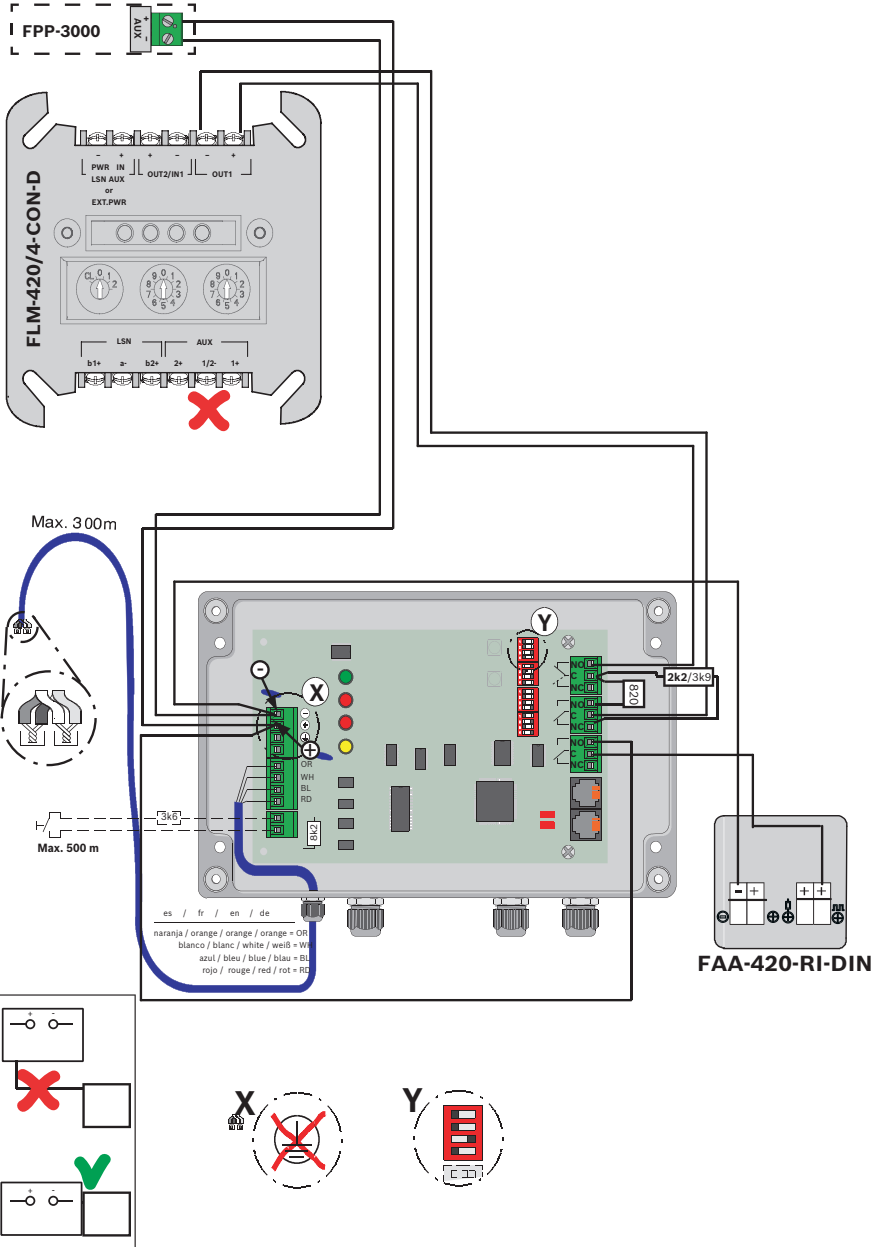
ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



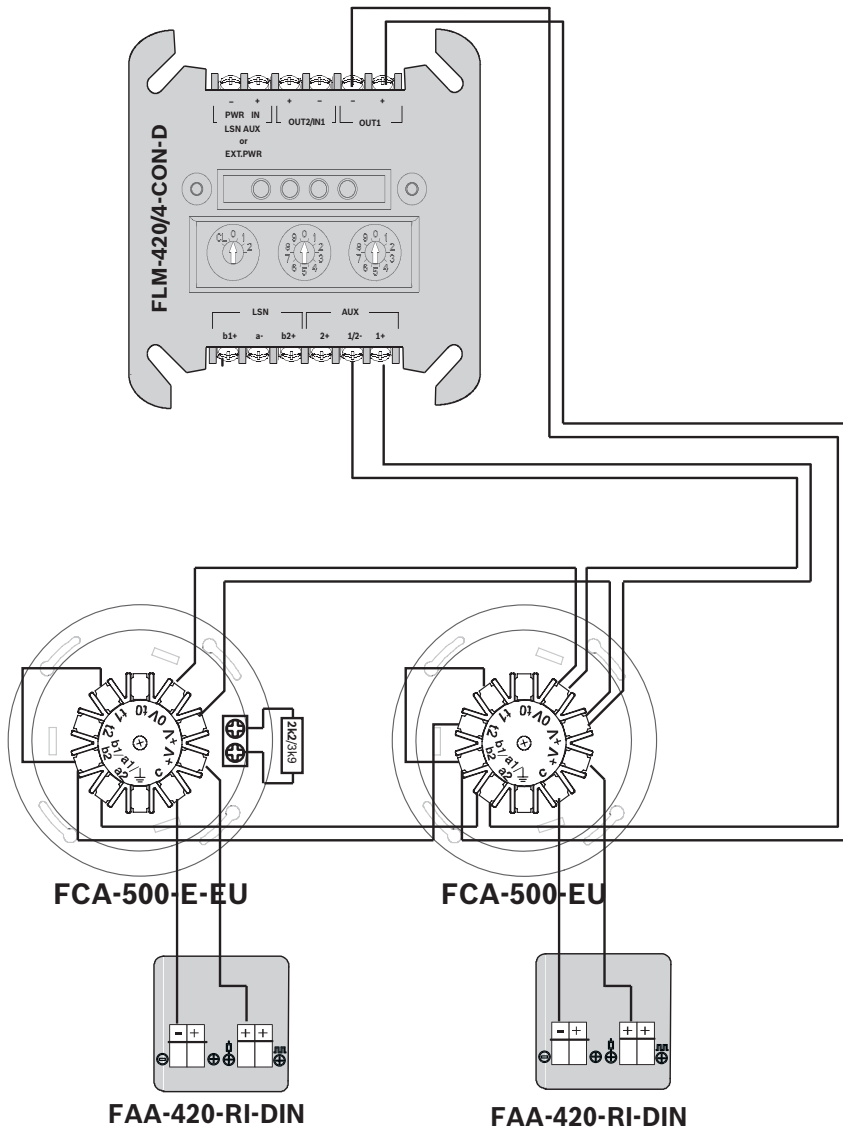


FCS-LWM-1





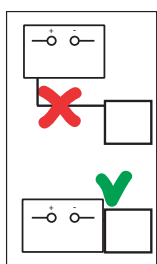
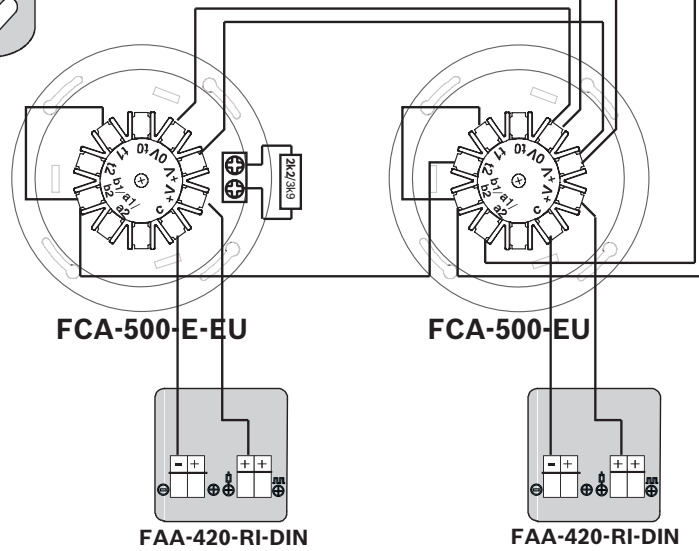
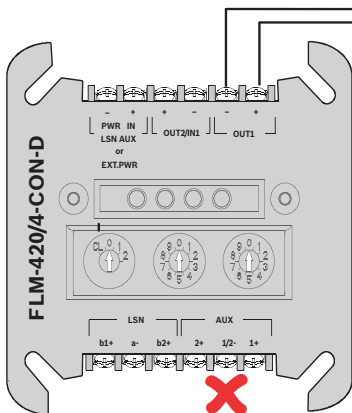
FCP-500

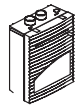






FCA-500-EU  
 FCP-O 500  
 FCP-O 500-P  
 FCP-OC 500  
 FCP-OC 500-P

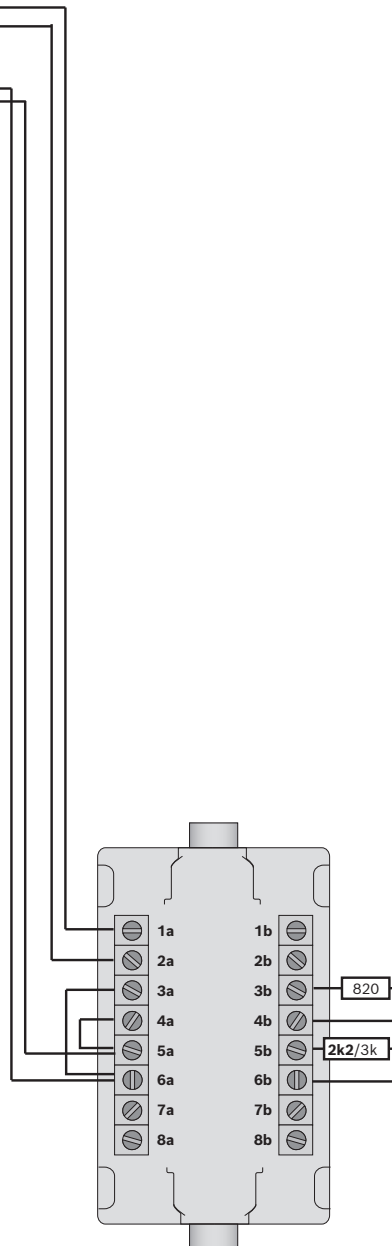
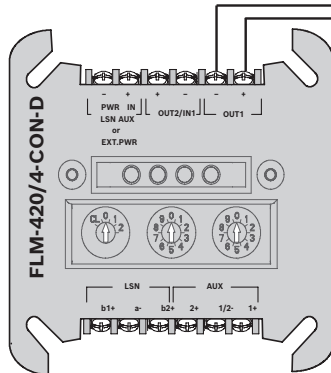


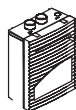


FCS-320-TM Series

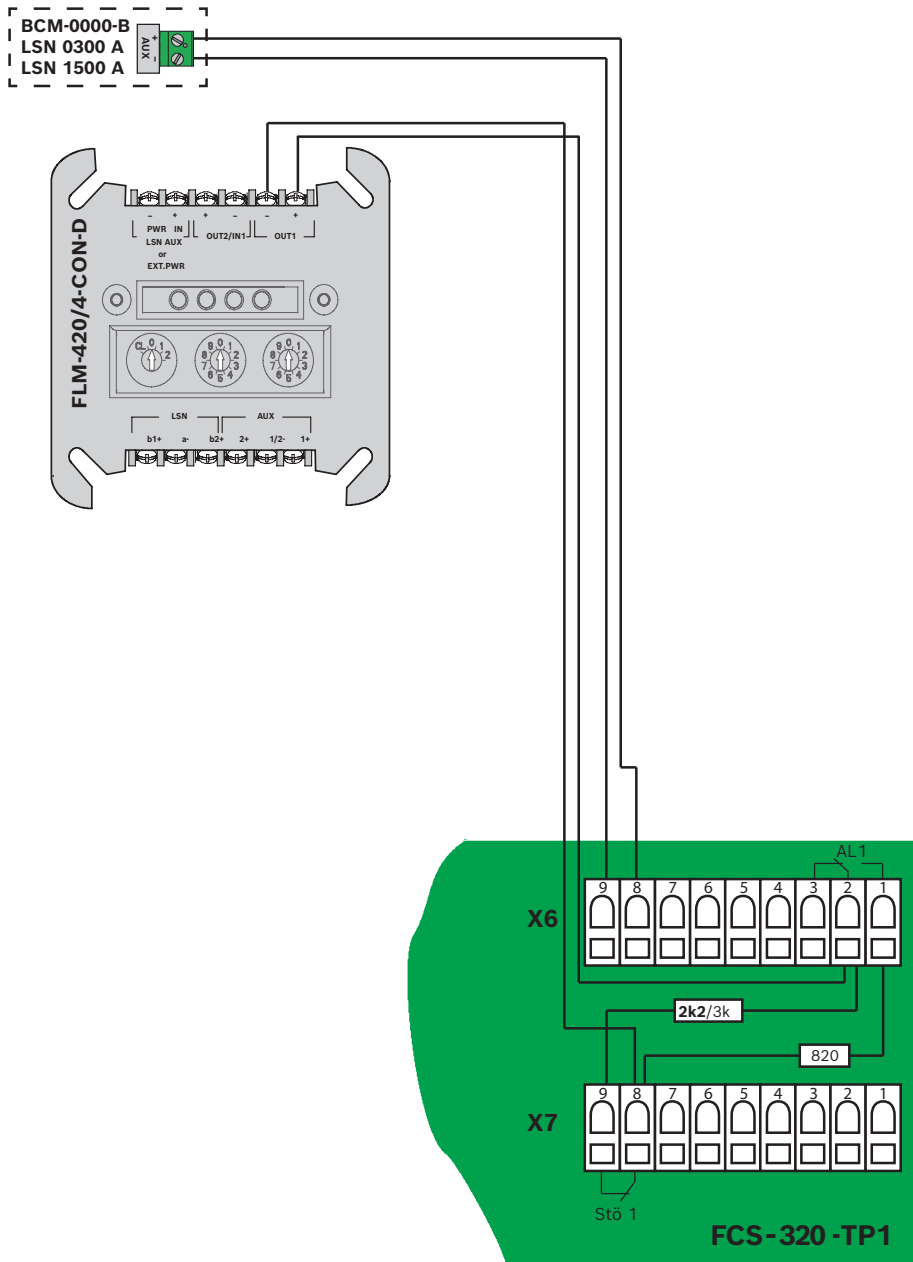


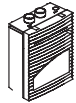
BCM-0000-B  
LSN 0300 A  
LSN 1500 A



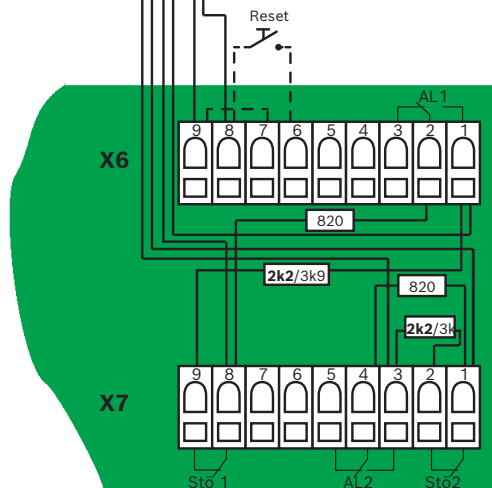
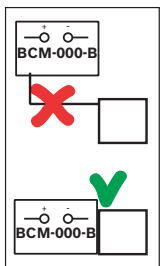
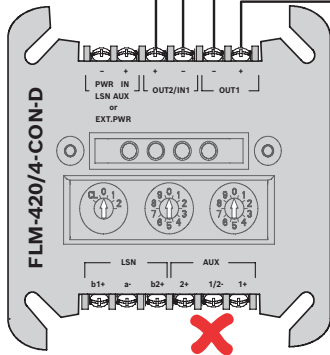
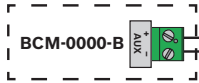


FCS-320-TP Series

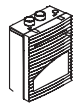




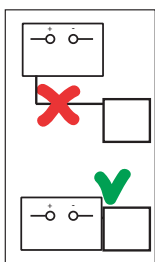
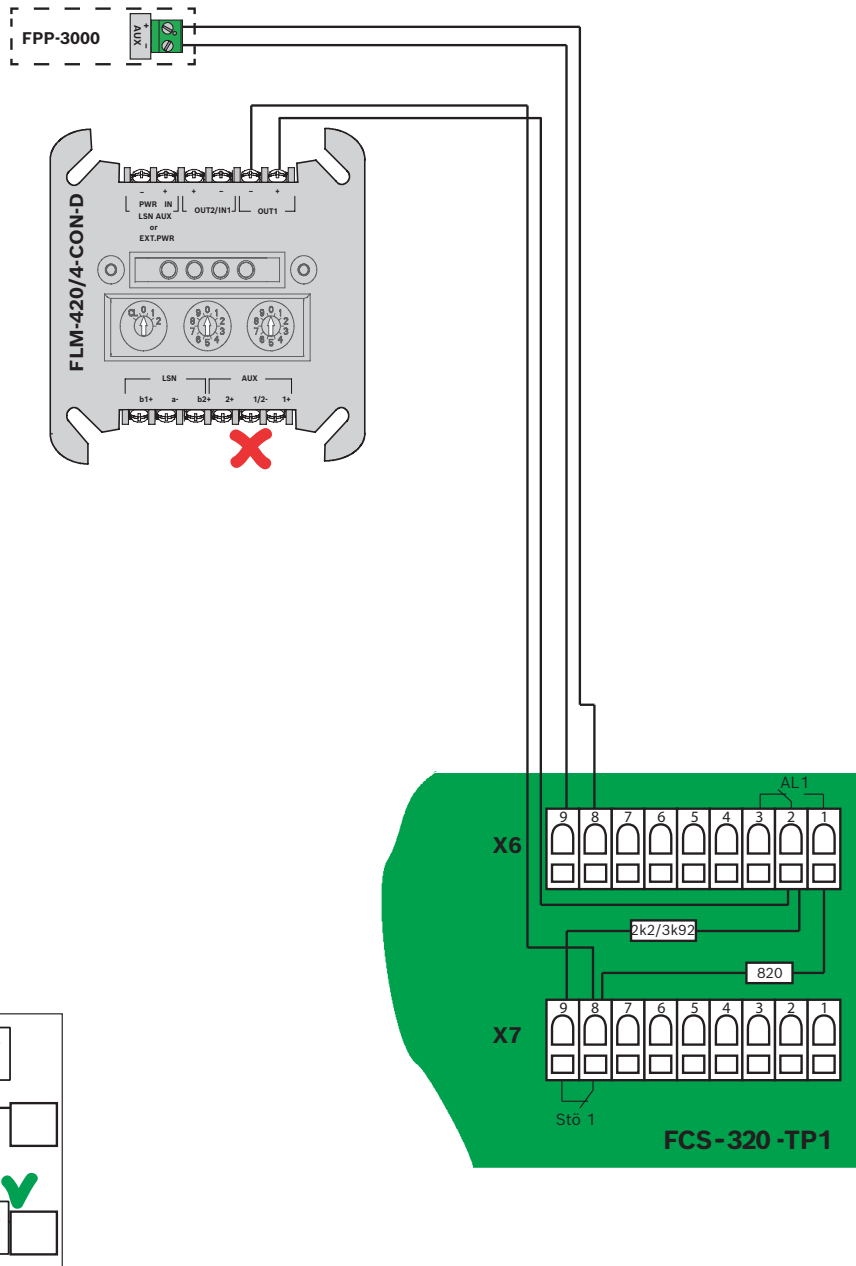
FCS-320-TP Series

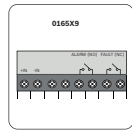


FCS-320-TP2

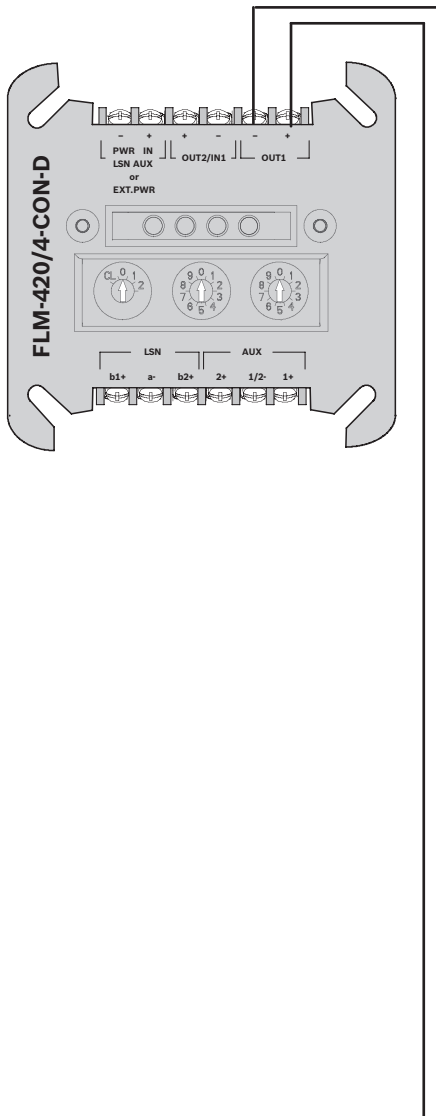
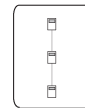


FCS-320-TP1

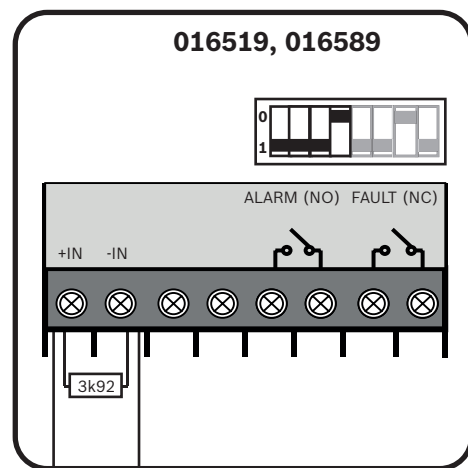


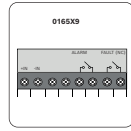


**016519, 016589  
IR3 Flame Detector**

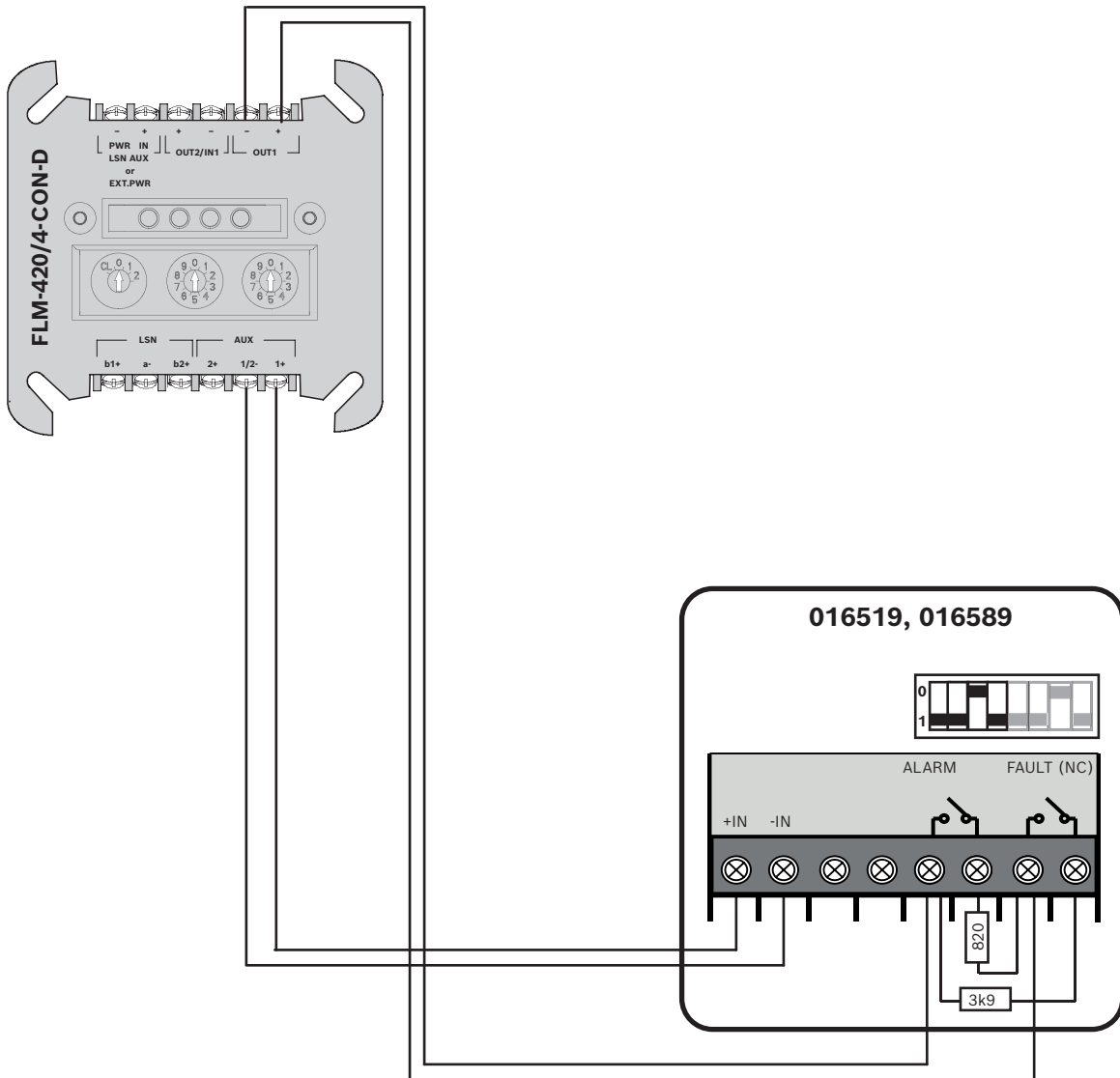
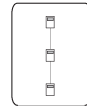


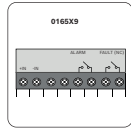
**max. 1 x 0165X9**



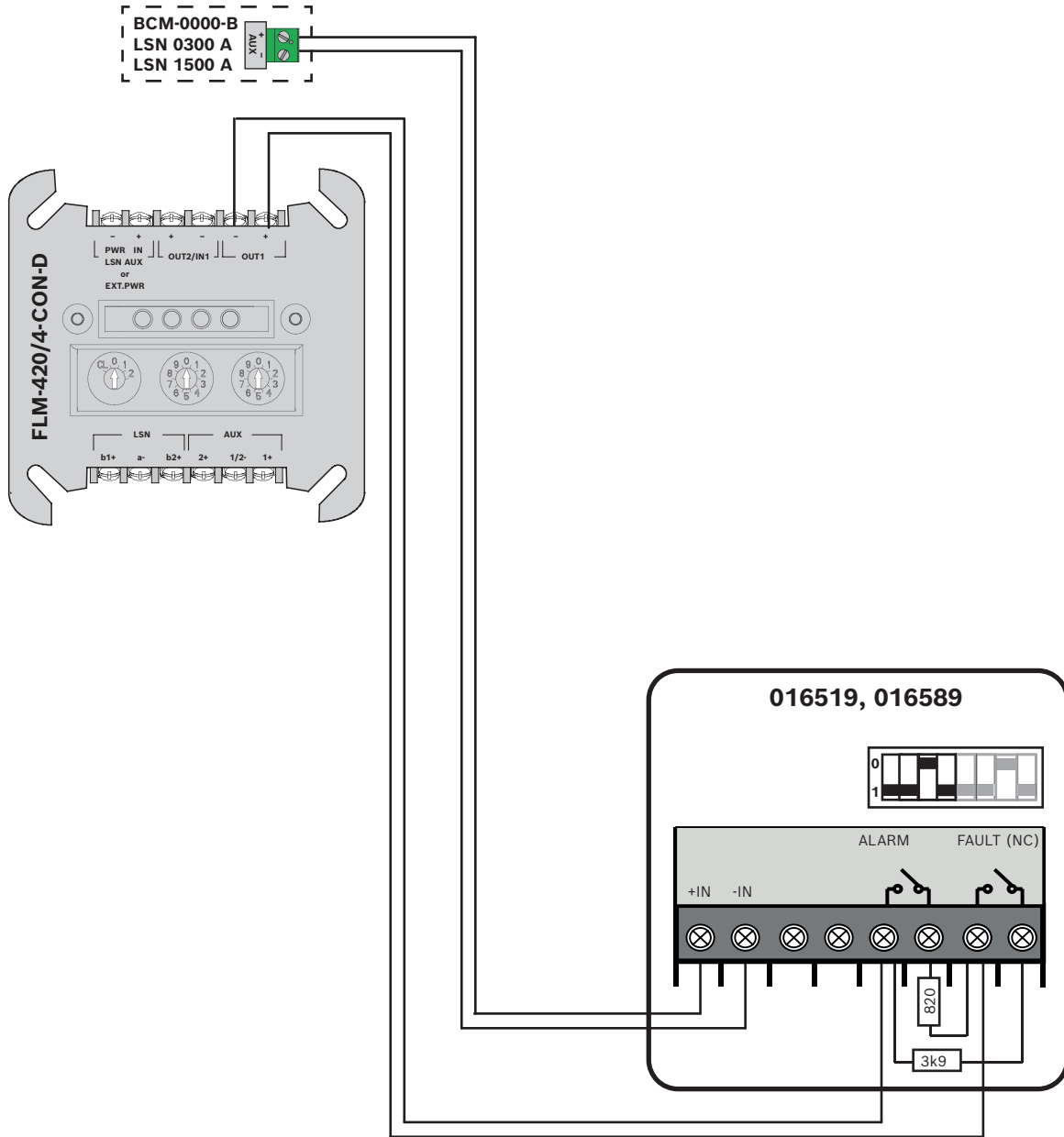
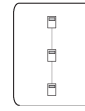


**016519, 016589  
IR3 Flame Detector**

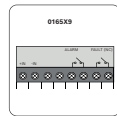




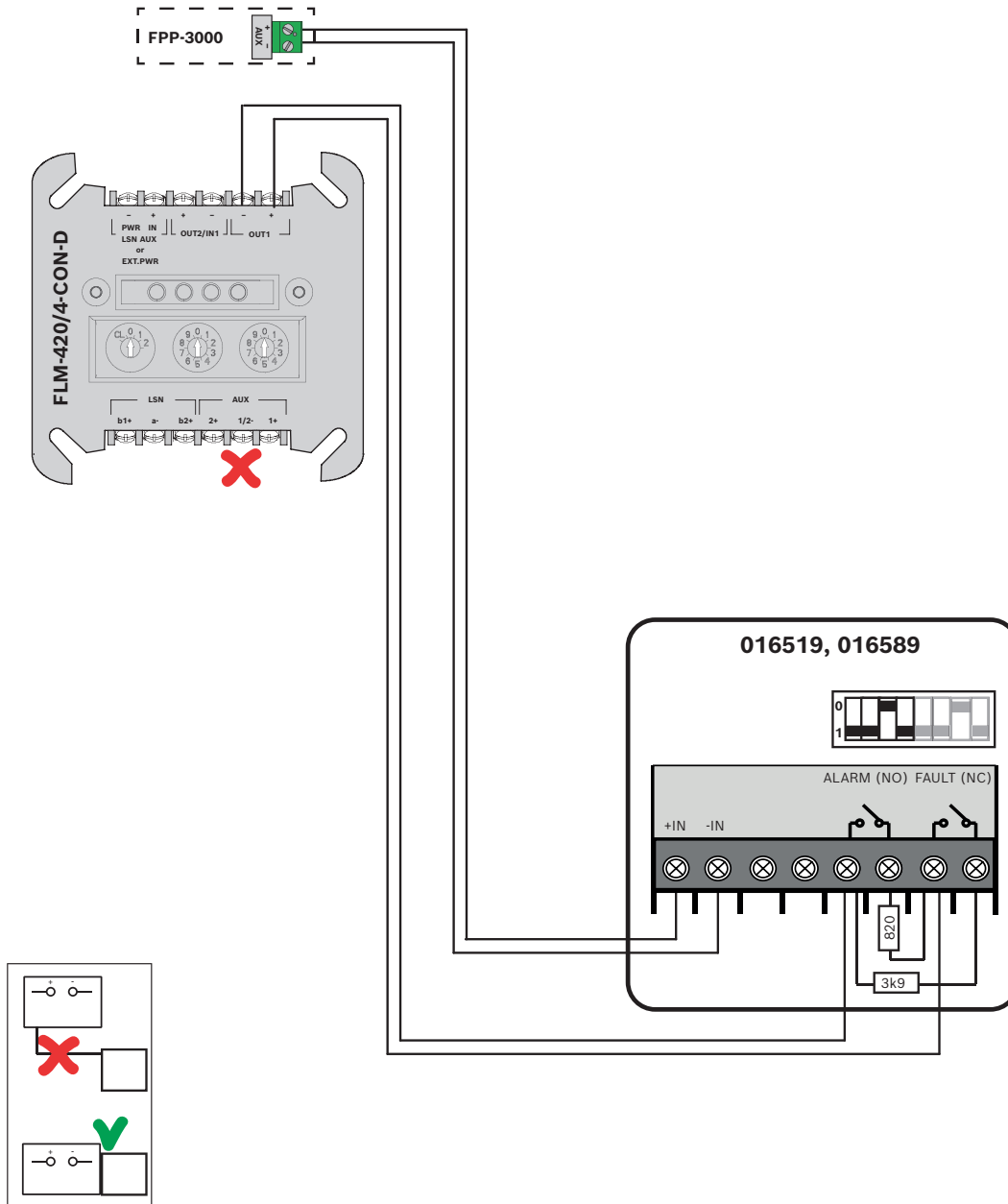
### 016519, 016589 IR3 Flame Detector





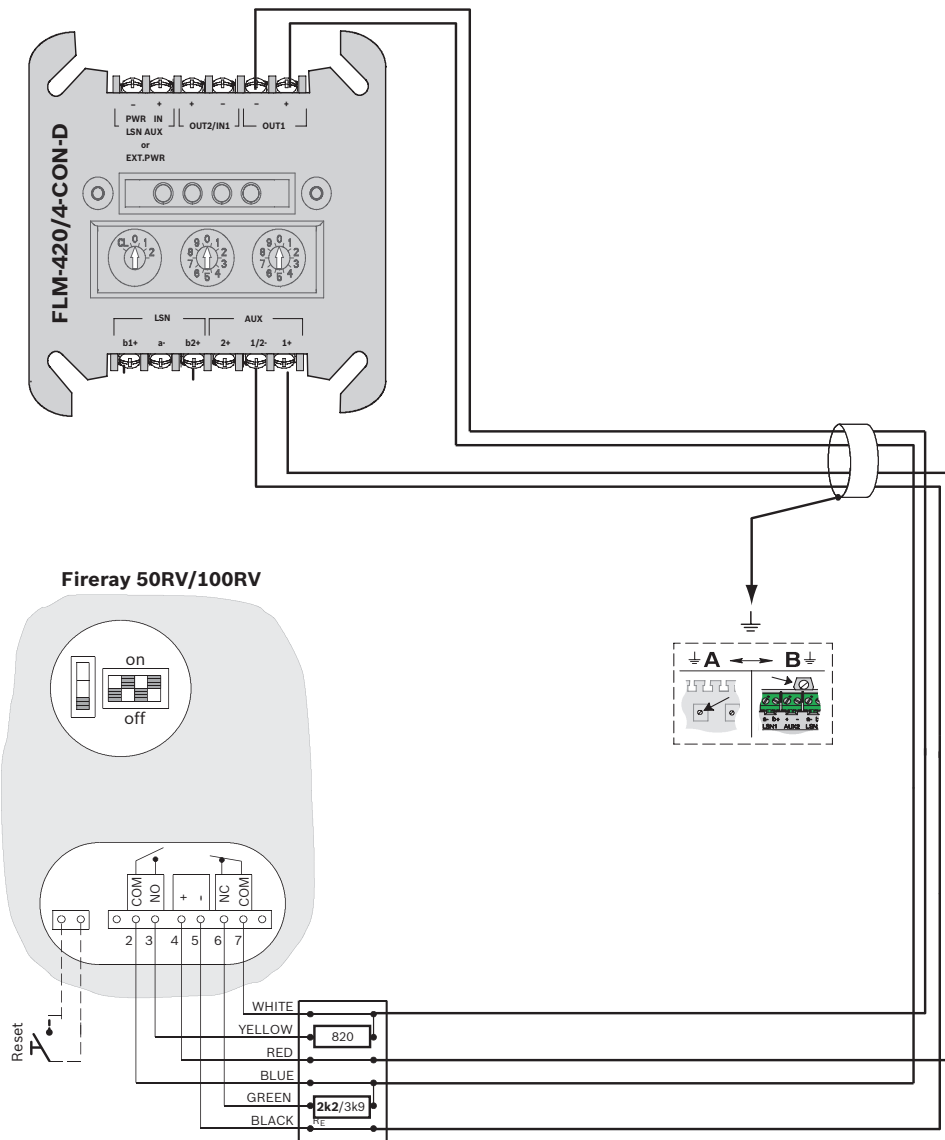


**016519, 016589  
IR3 Flame Detector**





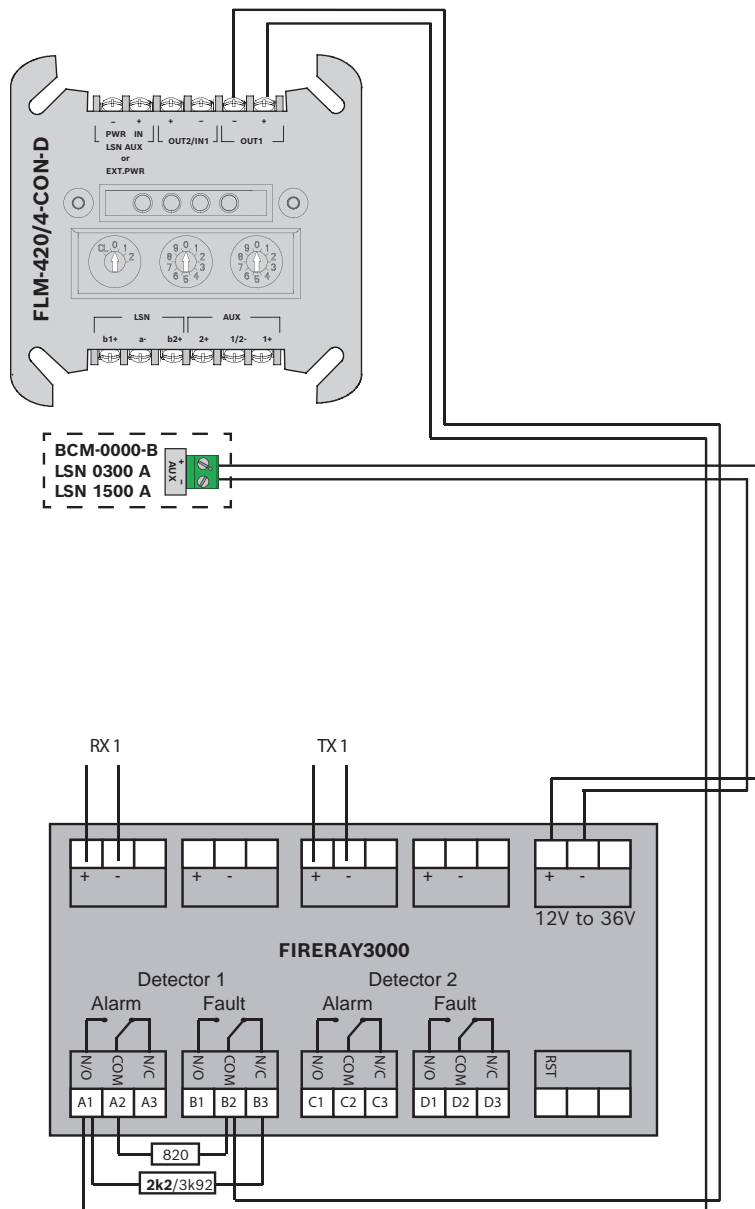
**Fireray 50RV  
Fireray 100RV**





**FIRERAY3000**

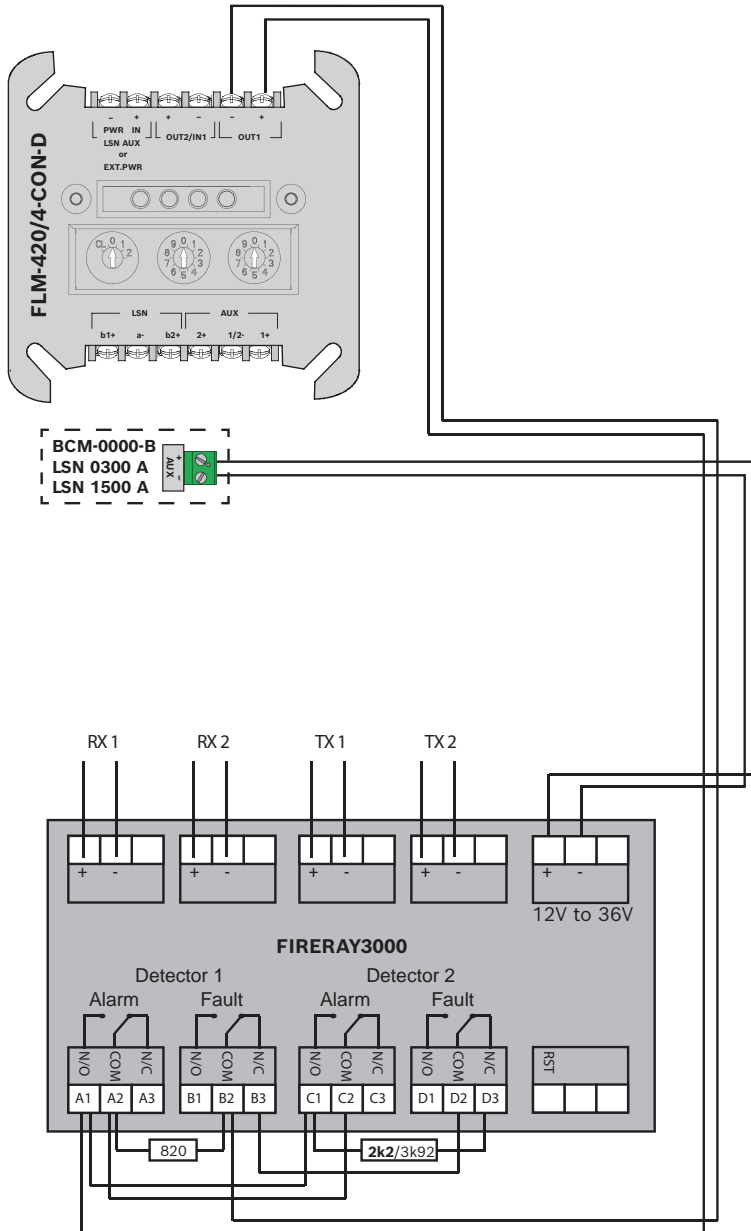
1 x





**FIRERAY3000**

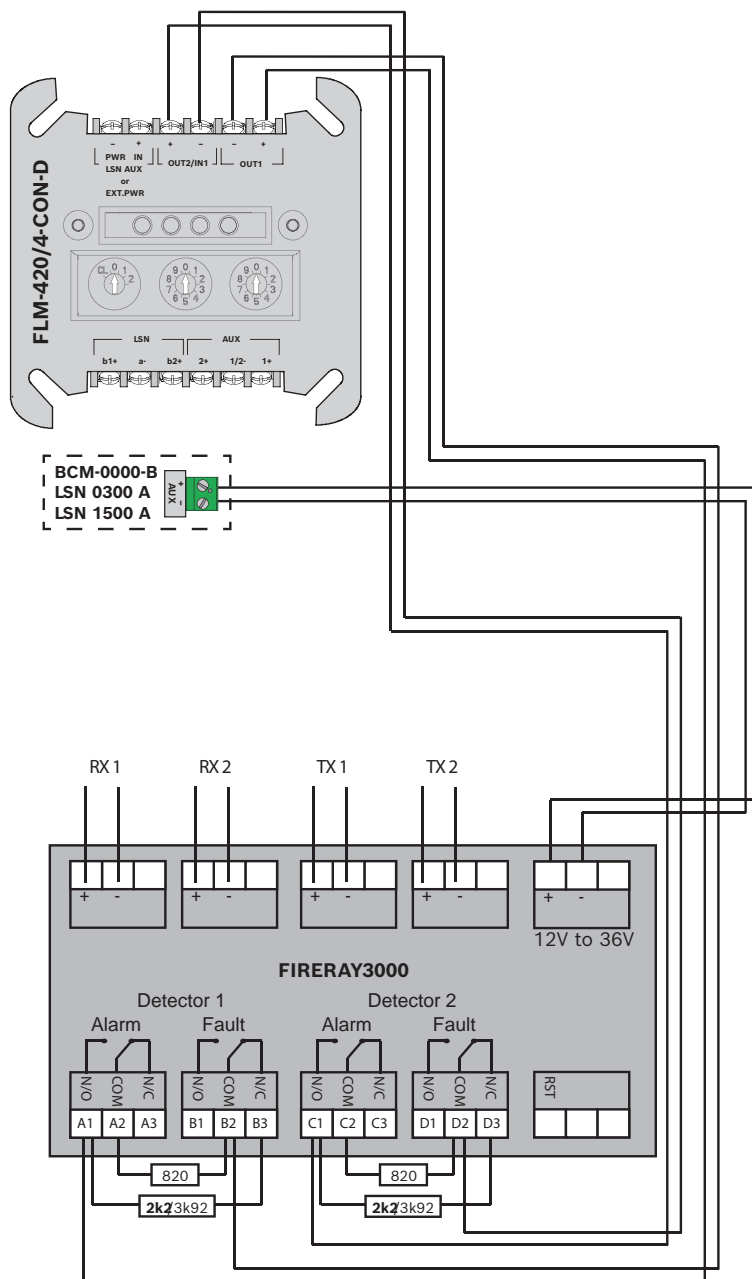
2 x  **OUT1**



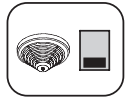


**FIRERAY3000**

2 x  **OUT1+2**

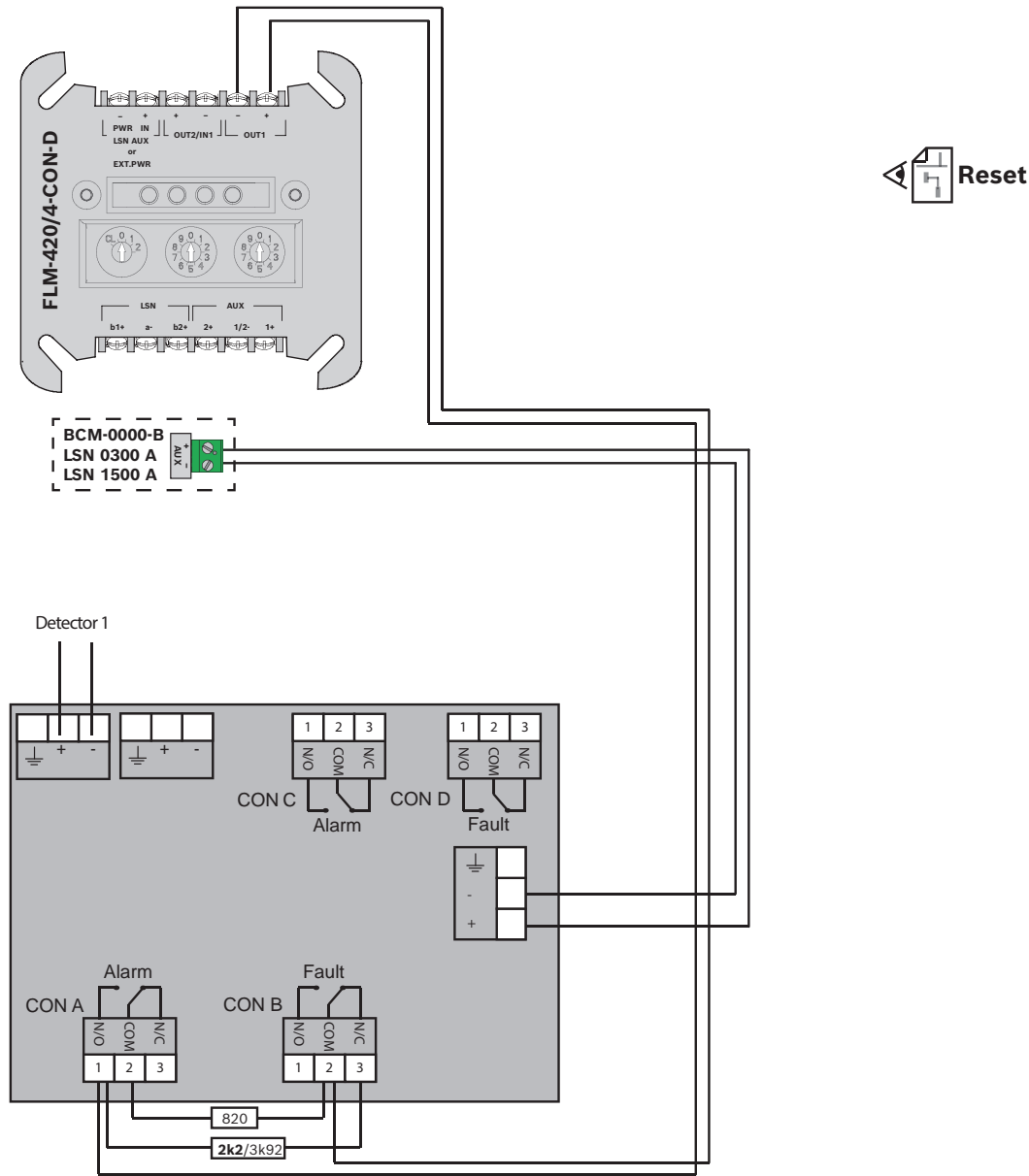


**Reset action**



**FIRERAY5000**

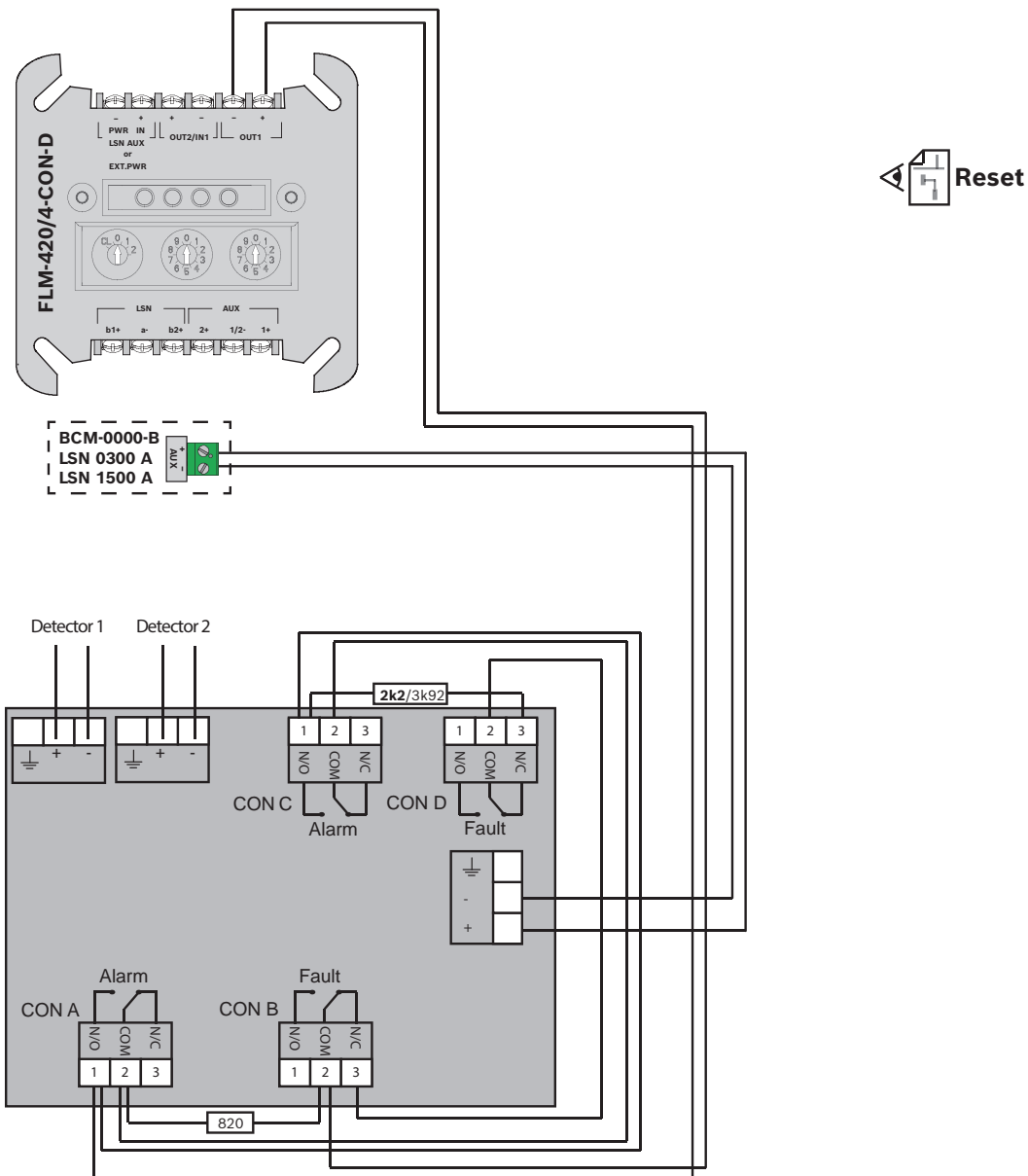
1 x 

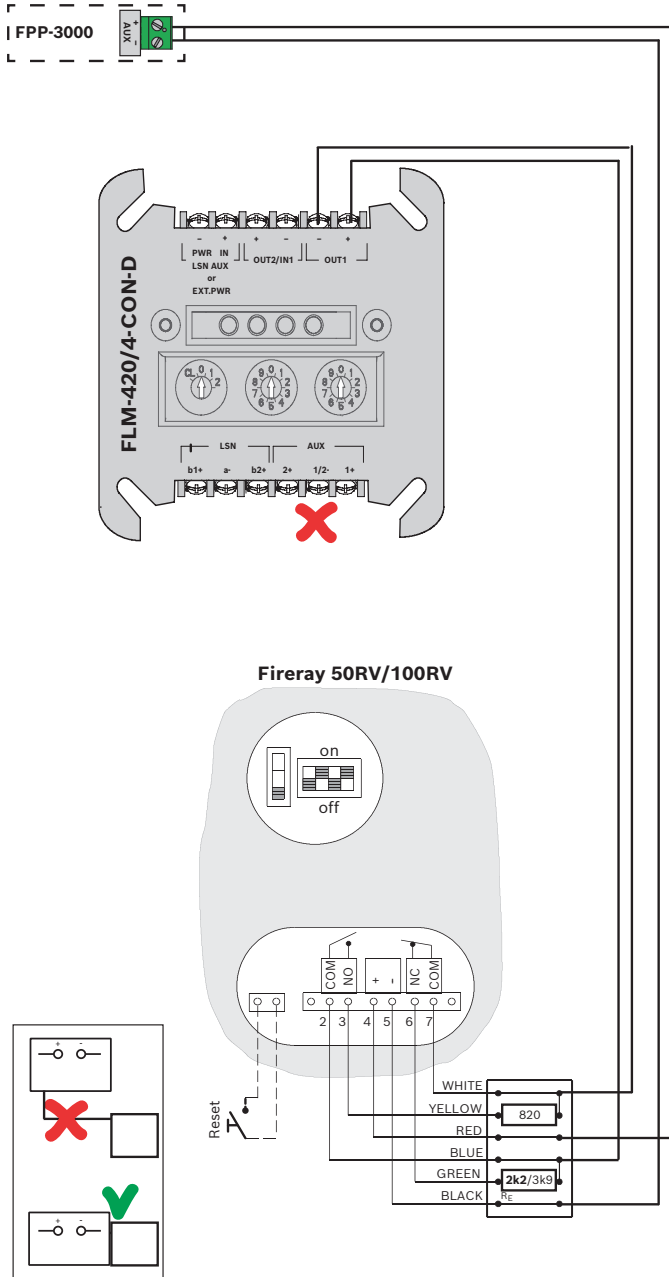




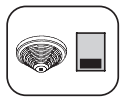
**FIRERAY5000**

**2 x OUT1**



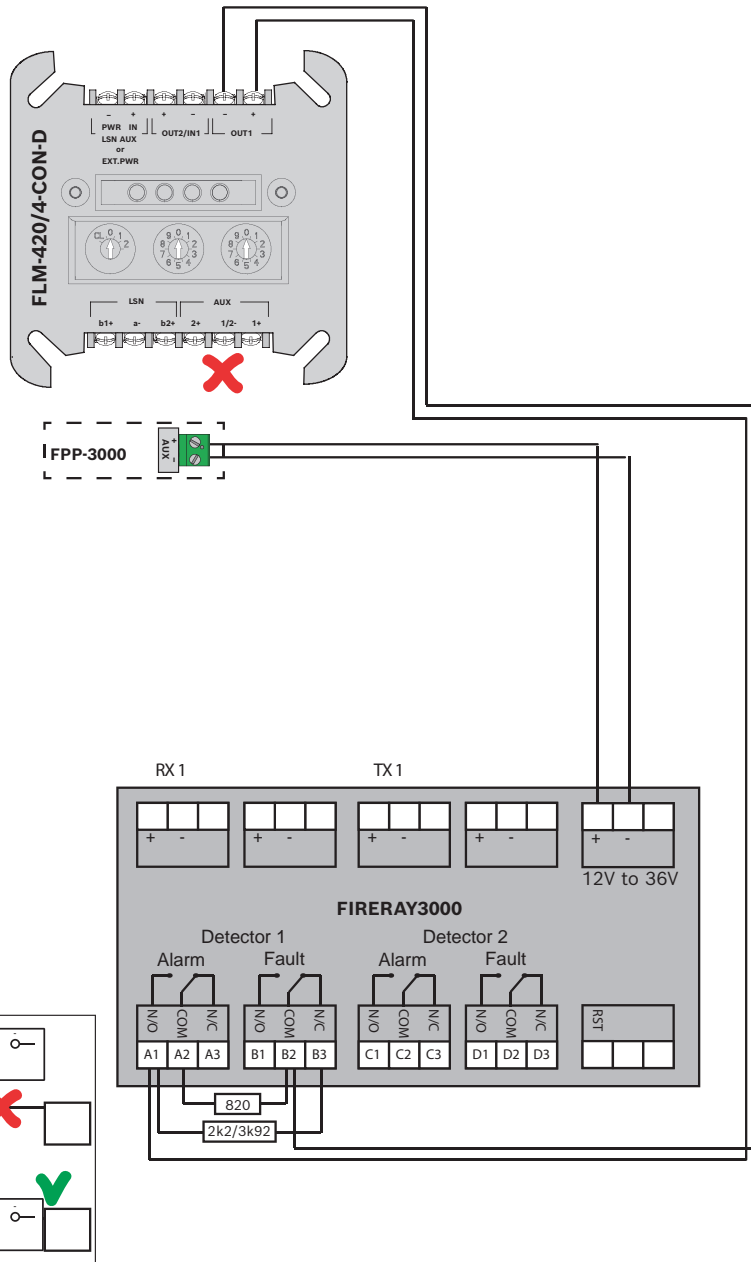






**FIRERAY3000**

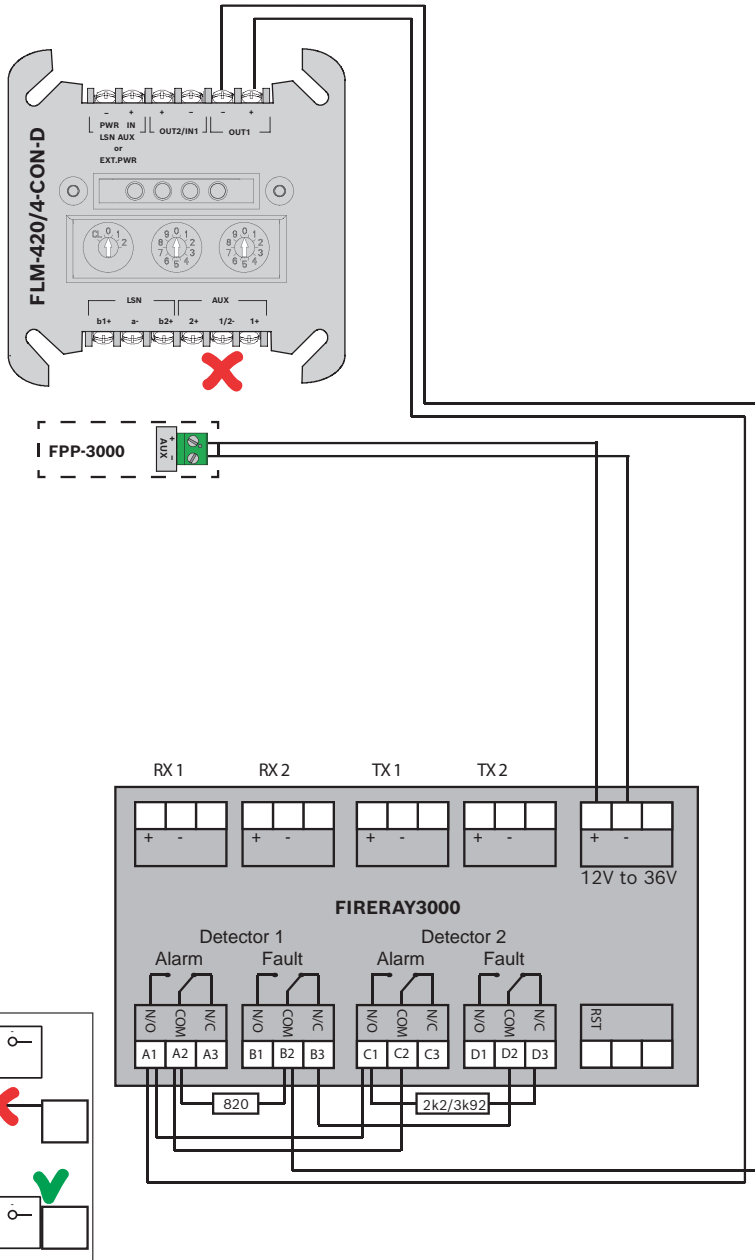
1 x



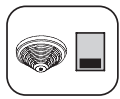
**Reset action**



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

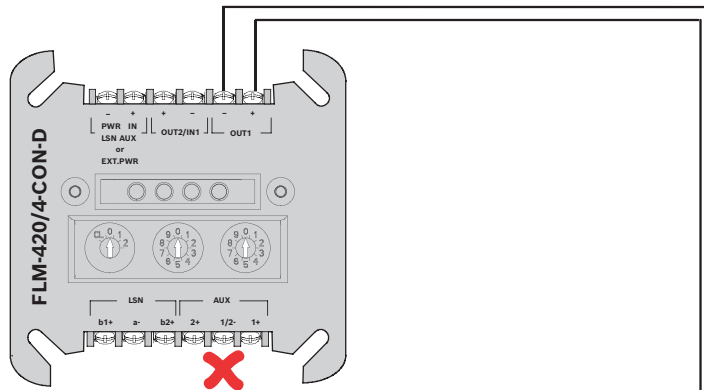


 **Reset action**

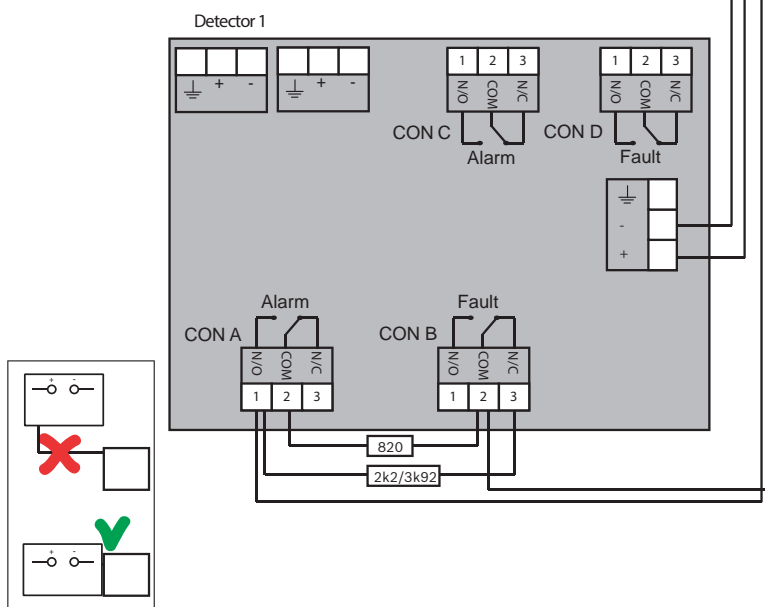


**FIRERAY5000**

1 x



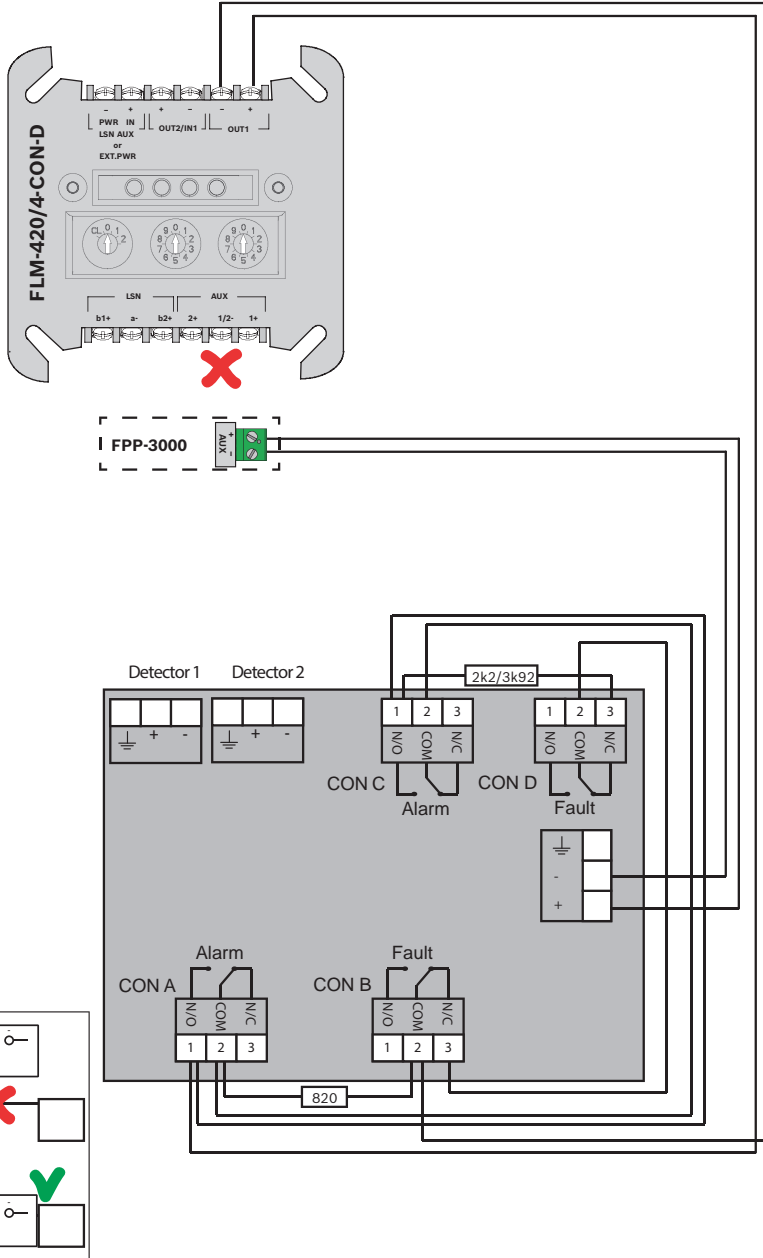
**Reset action**



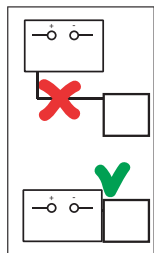


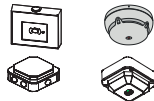
**FIRERAY5000**

**2 x OUT1**

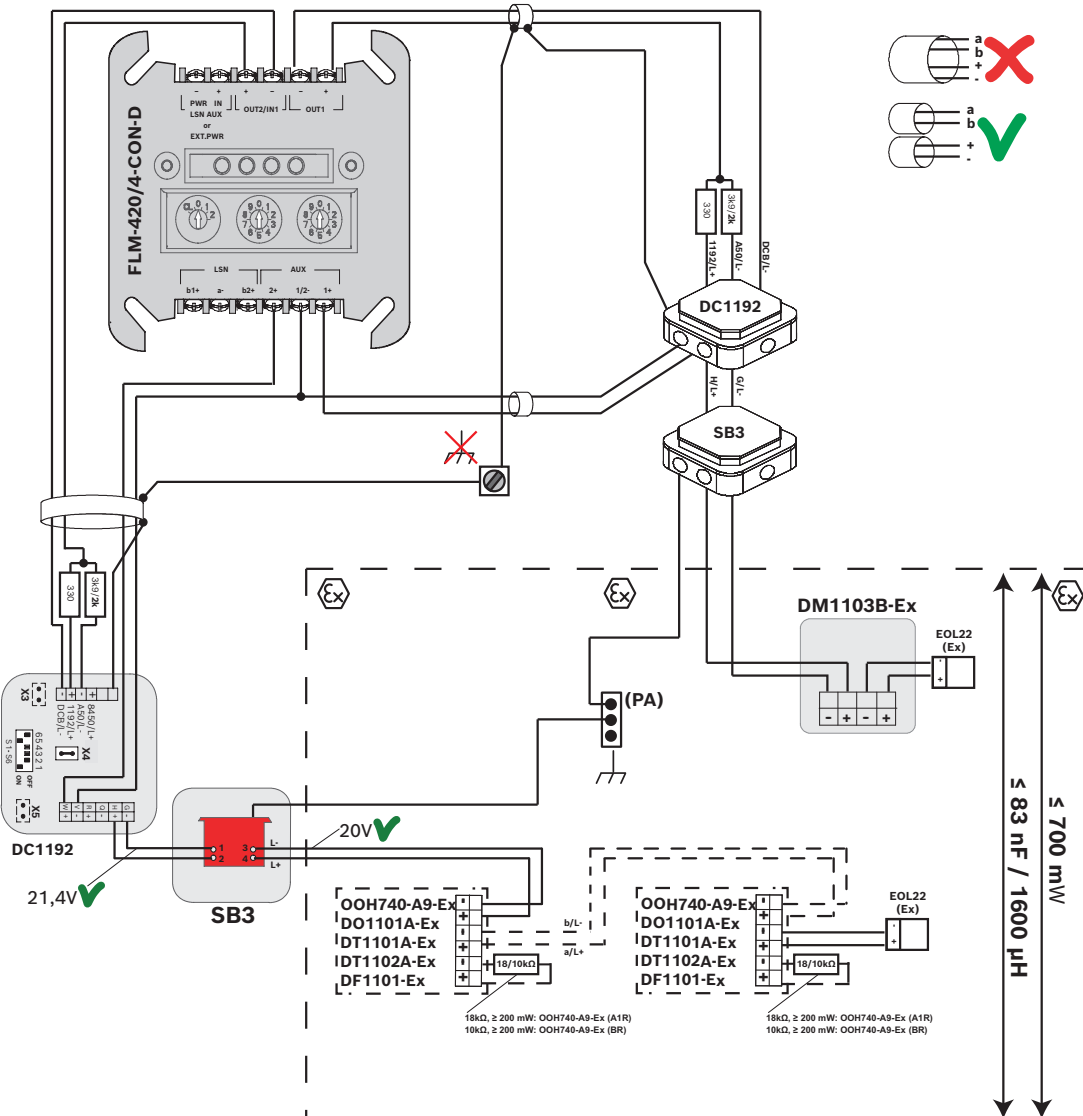


 **Reset action**



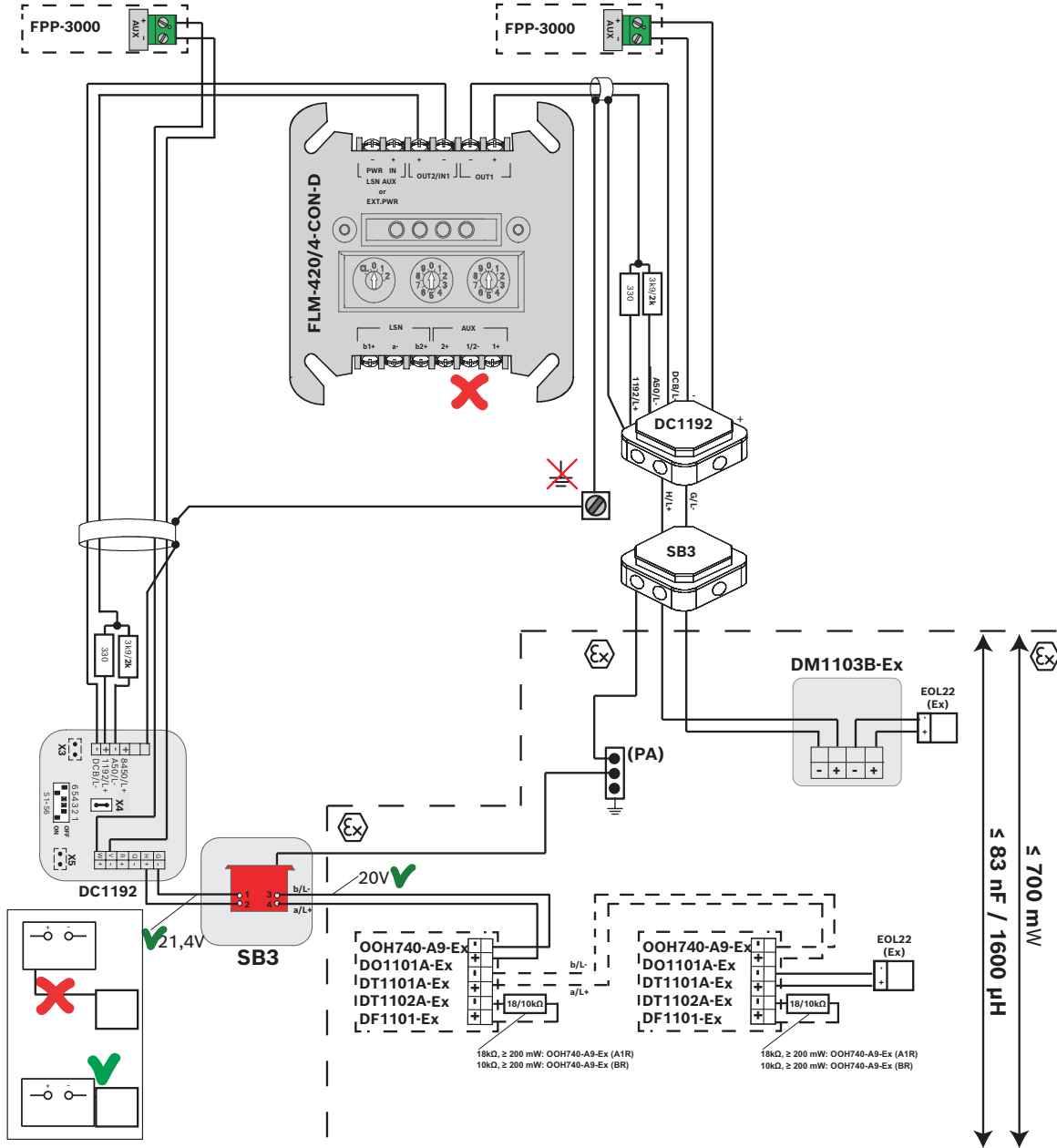


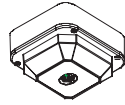
DC1192, SB3  
OOH740-A9-Ex  
DO1101A-Ex  
DT1101A-Ex-  
/DT1102A-Ex  
DF1101-Ex



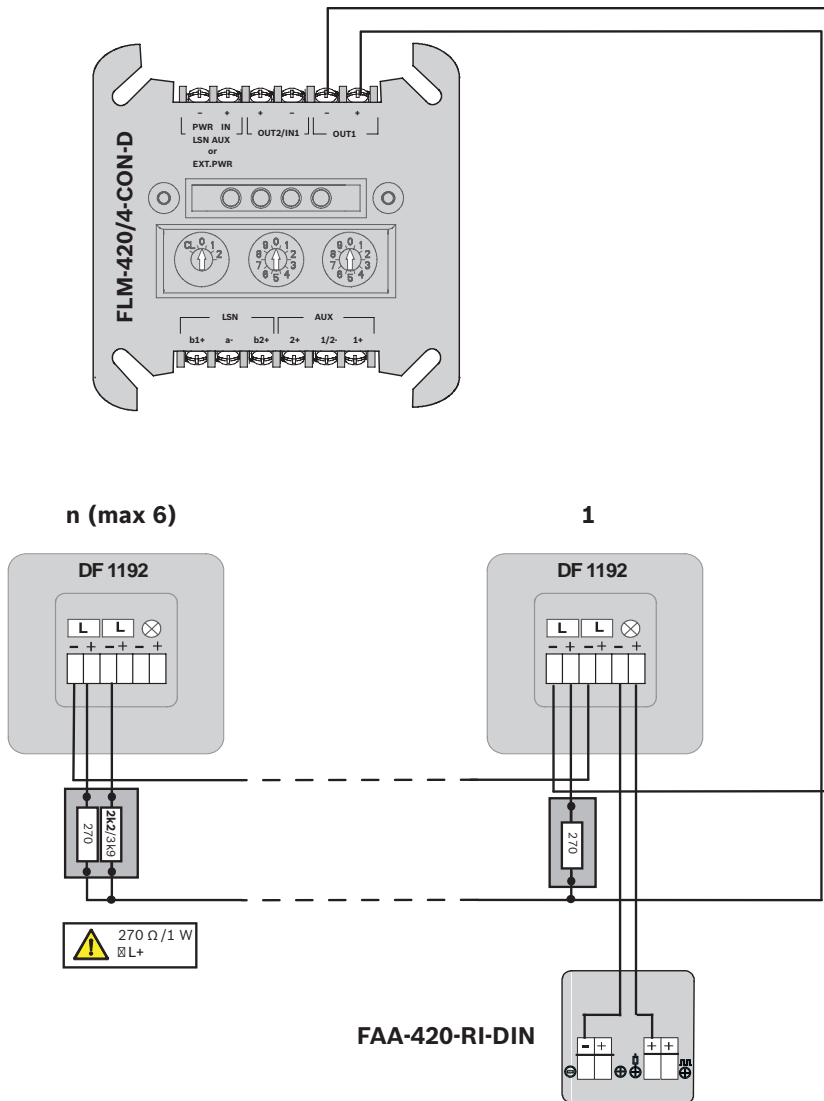


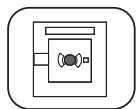
DC1192, SB3  
 OOH740-A9-Ex  
 DO1101A-Ex  
 DT1101A-Ex/DT1102A-Ex  
 DF1101-Ex  
 DM1103B-Ex



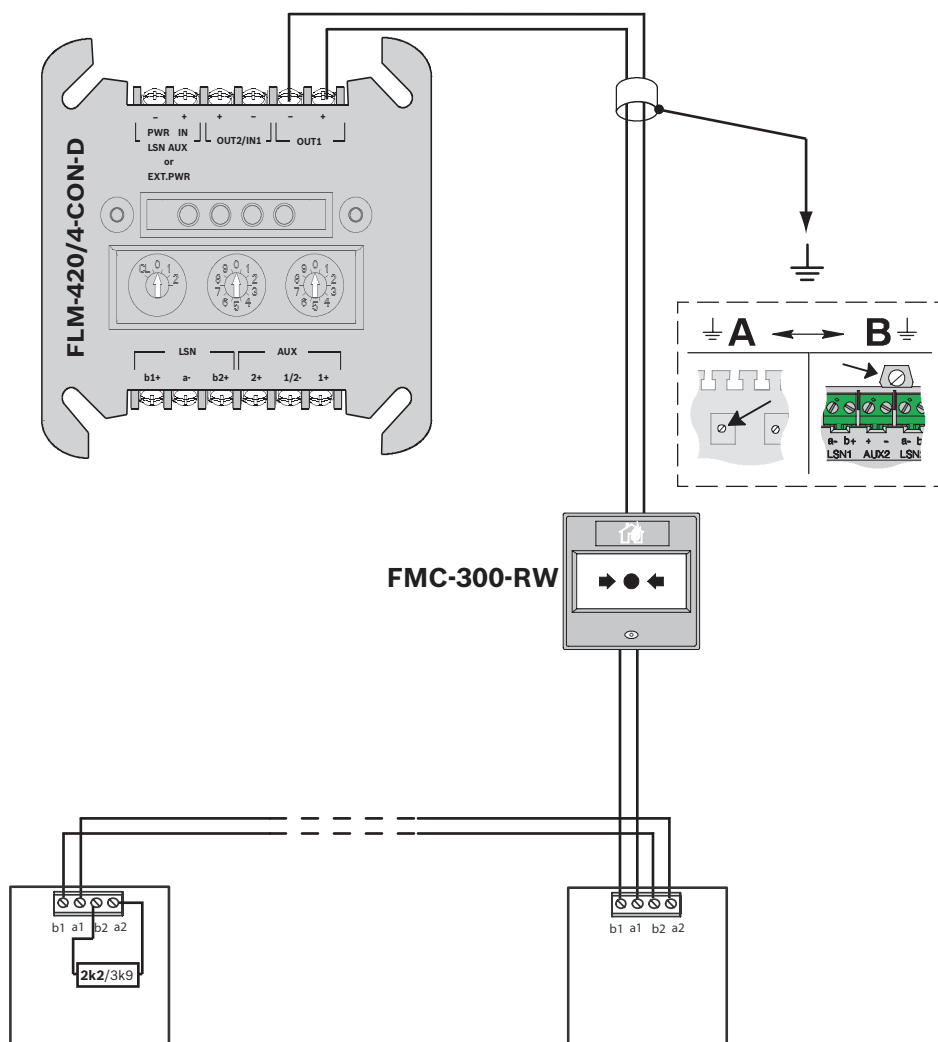
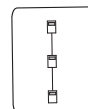


**DF 1192**





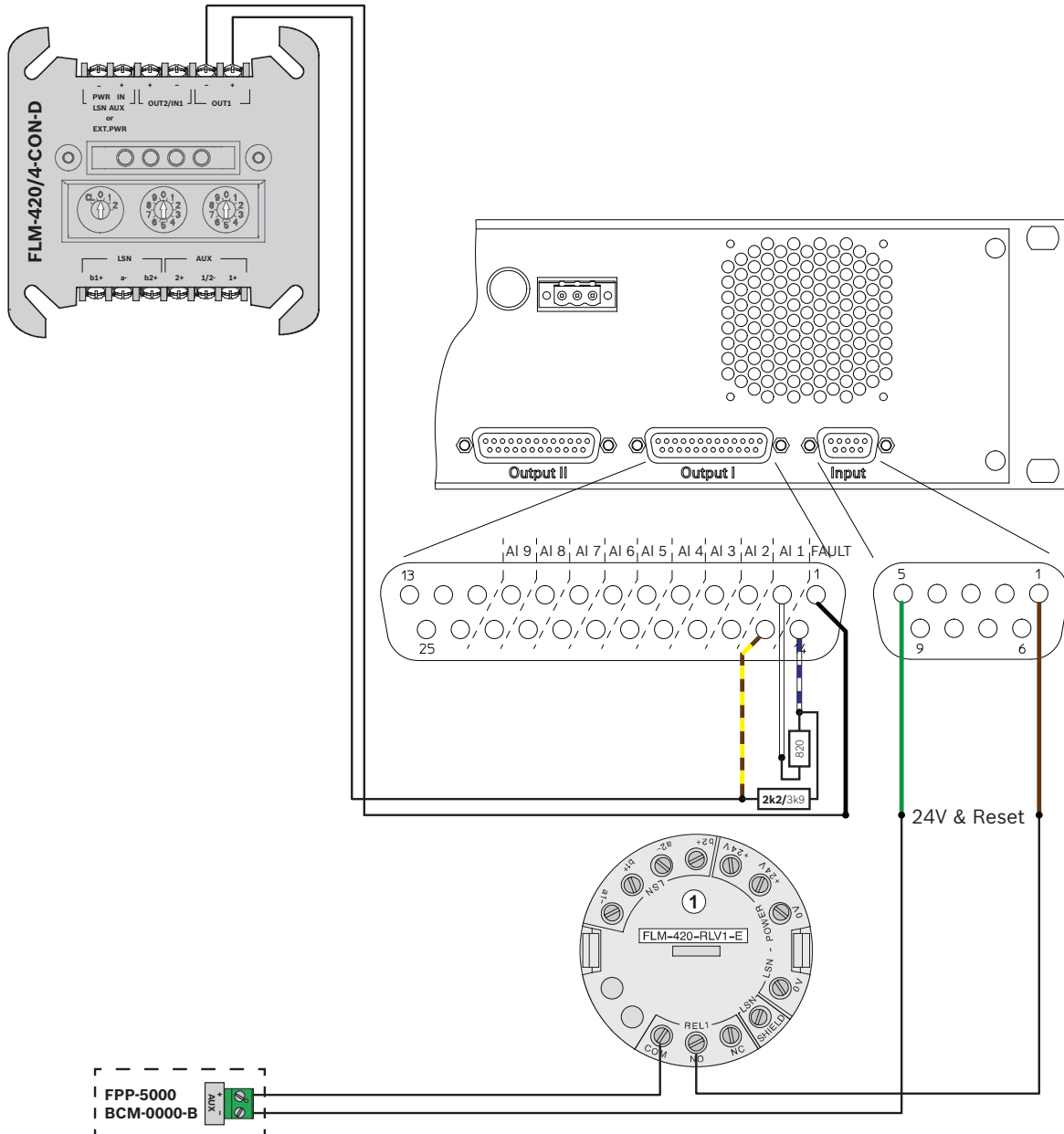
**FMC-300-RW**

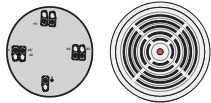




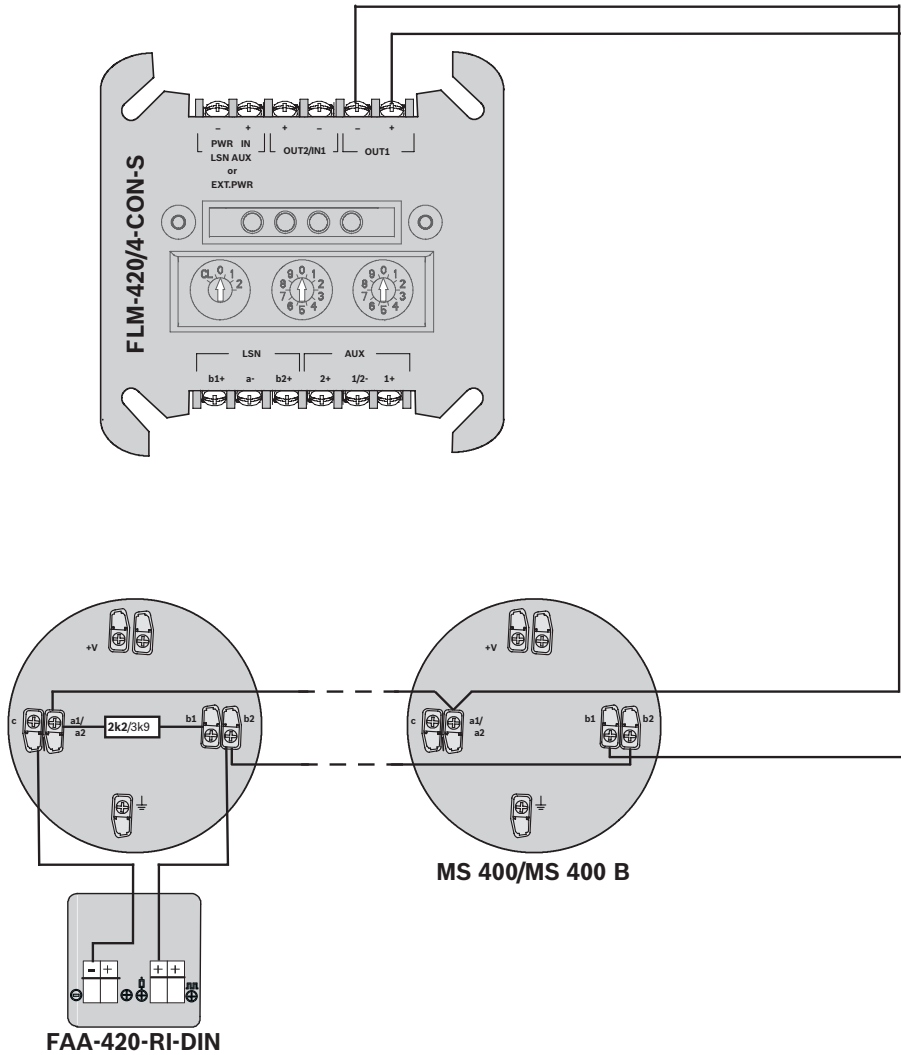


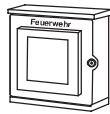
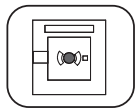
N4387A



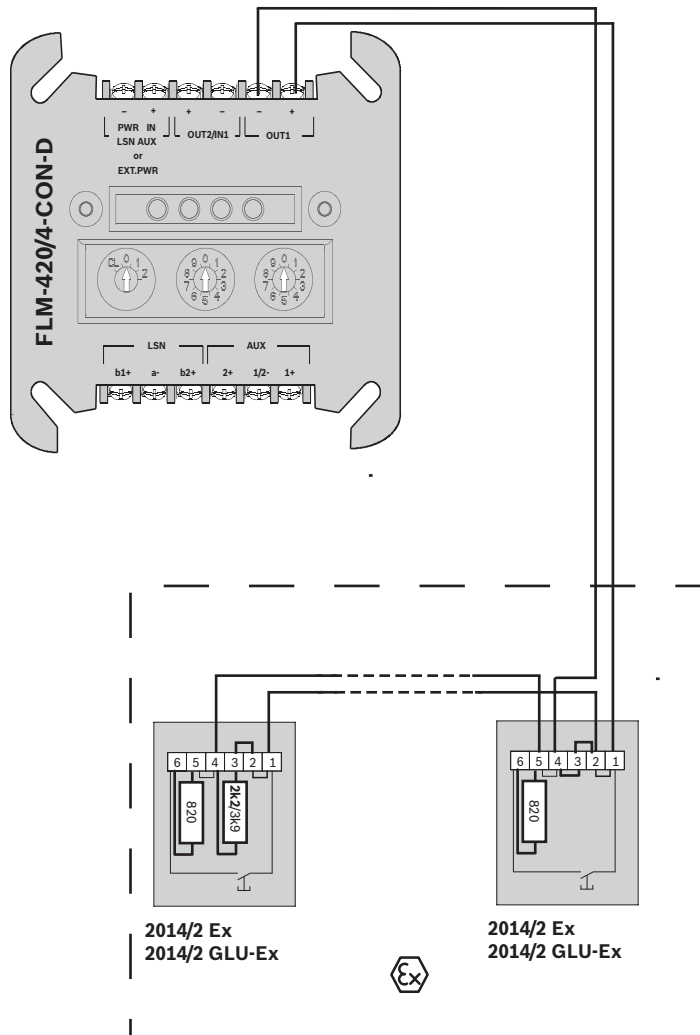
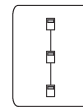


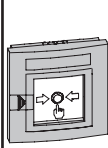
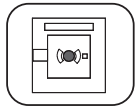
MSS 400, MSS 400 B  
 FCH-320-T320  
 FCH-T320-R470, FCH-T320-FSA  
 FCP-O320, FCP-O320-R470  
 FCP-OC320, FCP-OC320-R470  
 FCP-OT320, FCP-OT320-R470



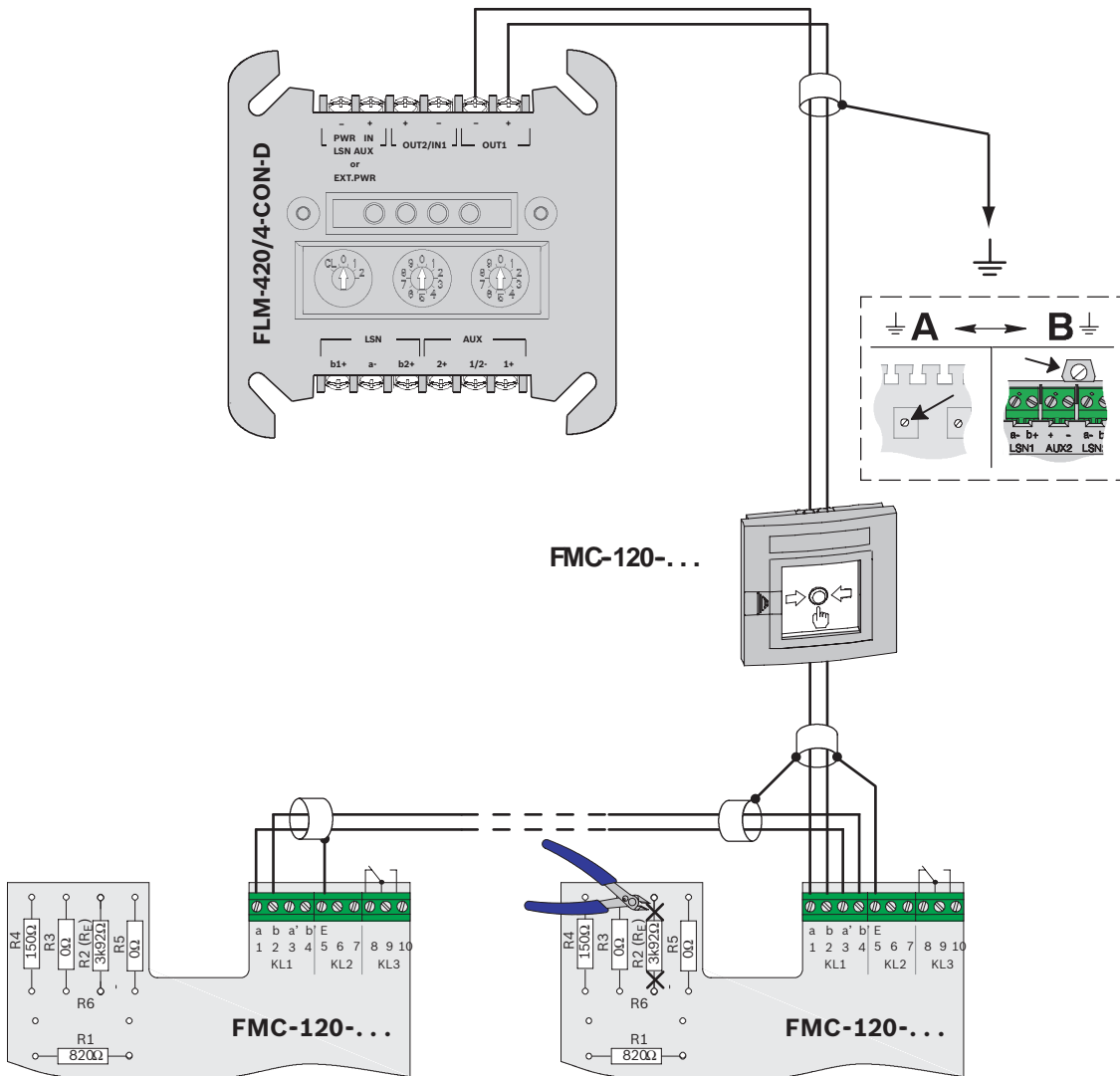
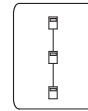


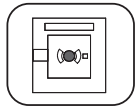
**2014/2 Ex**  
**2014/2 GLU-Ex**



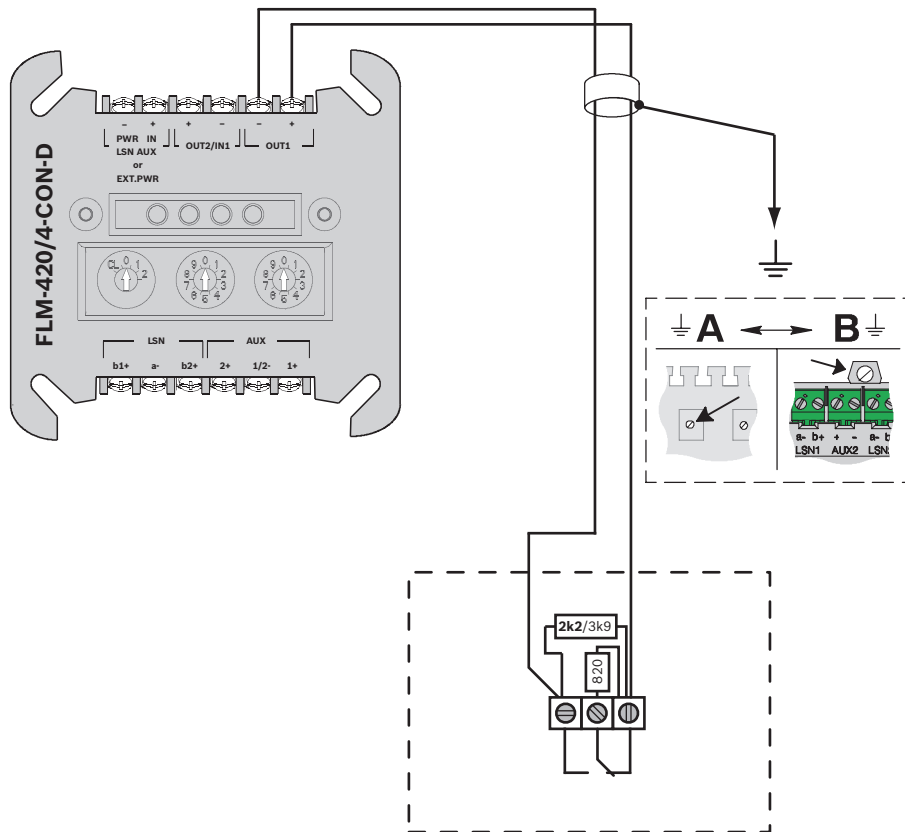
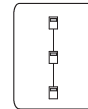


FMC-120-DKM-G-R FMC-120-DKM-G-Y  
 FMC-120-DKM-H-R FMC-120-EST-G-B  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B



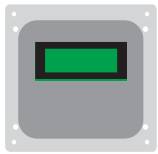


NO



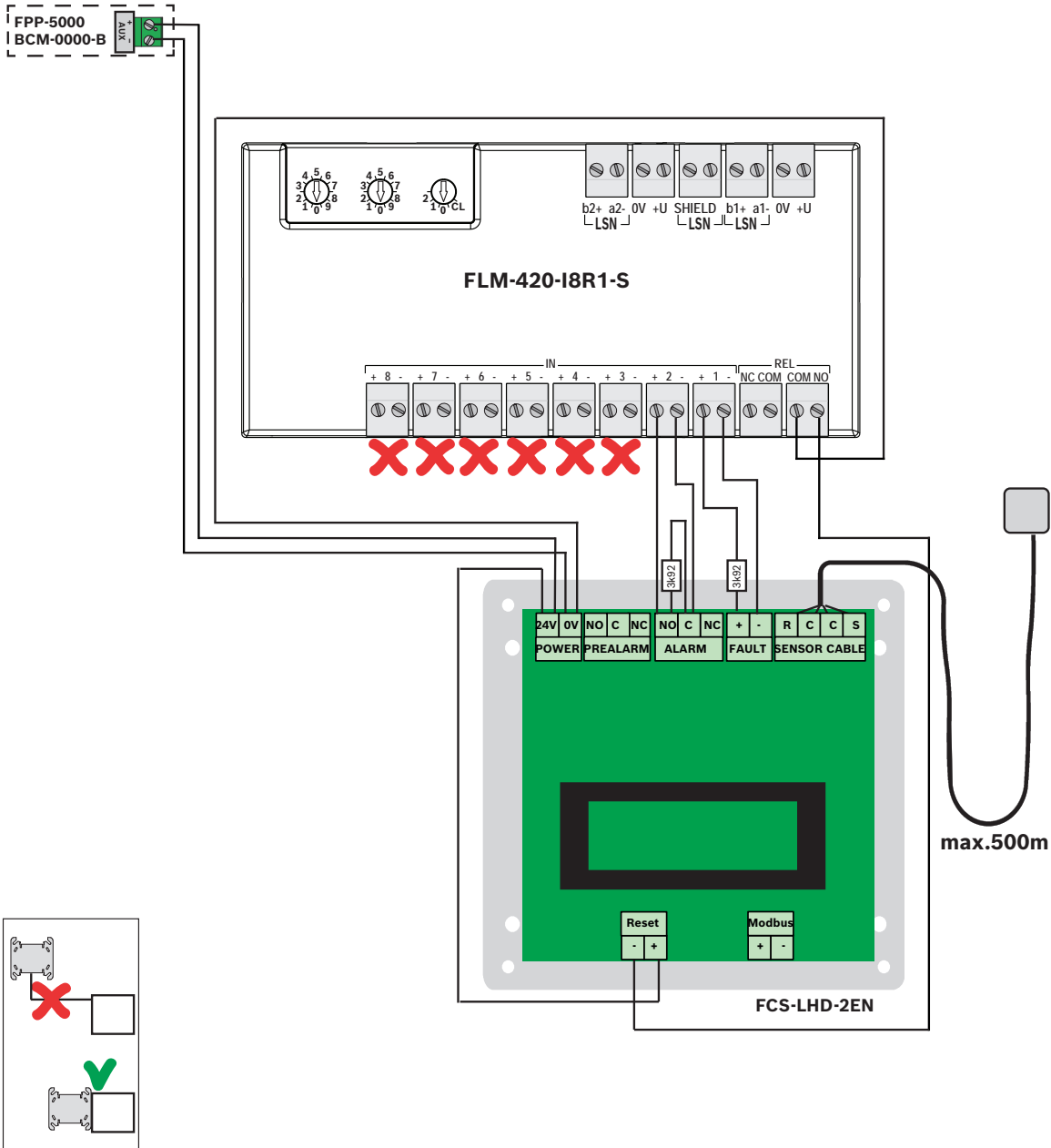
2.5.2

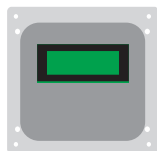
FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





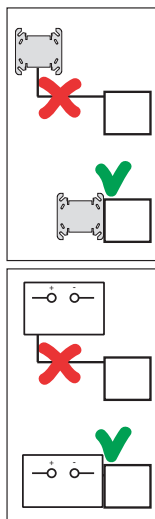
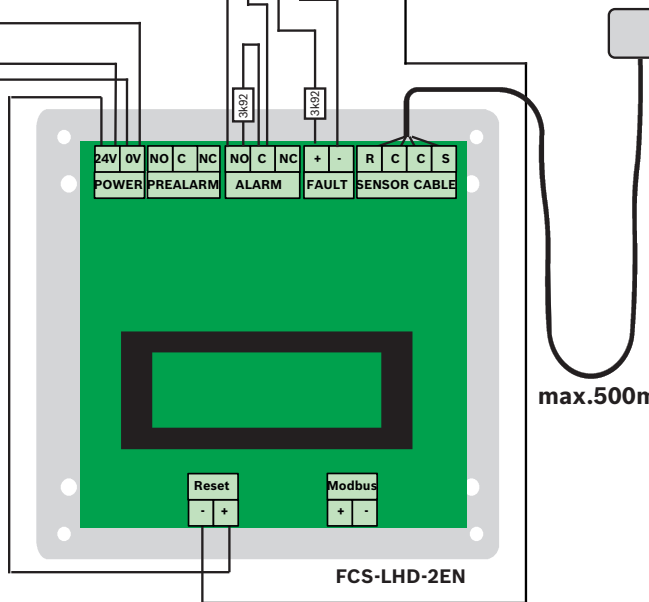
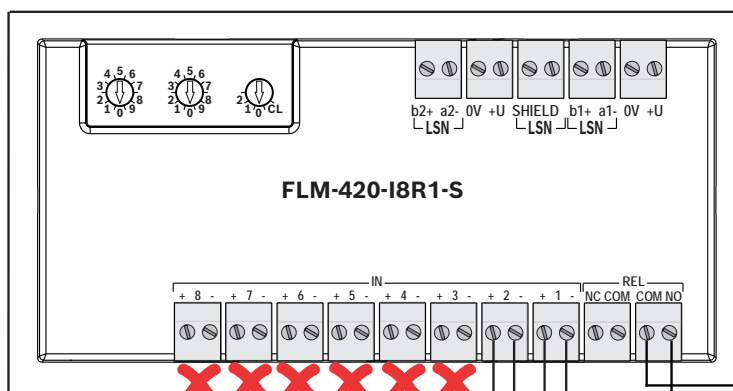
ProReact EN Analogue

FCS-LHD-2EN

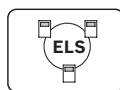


ELS

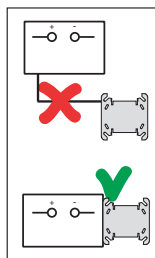
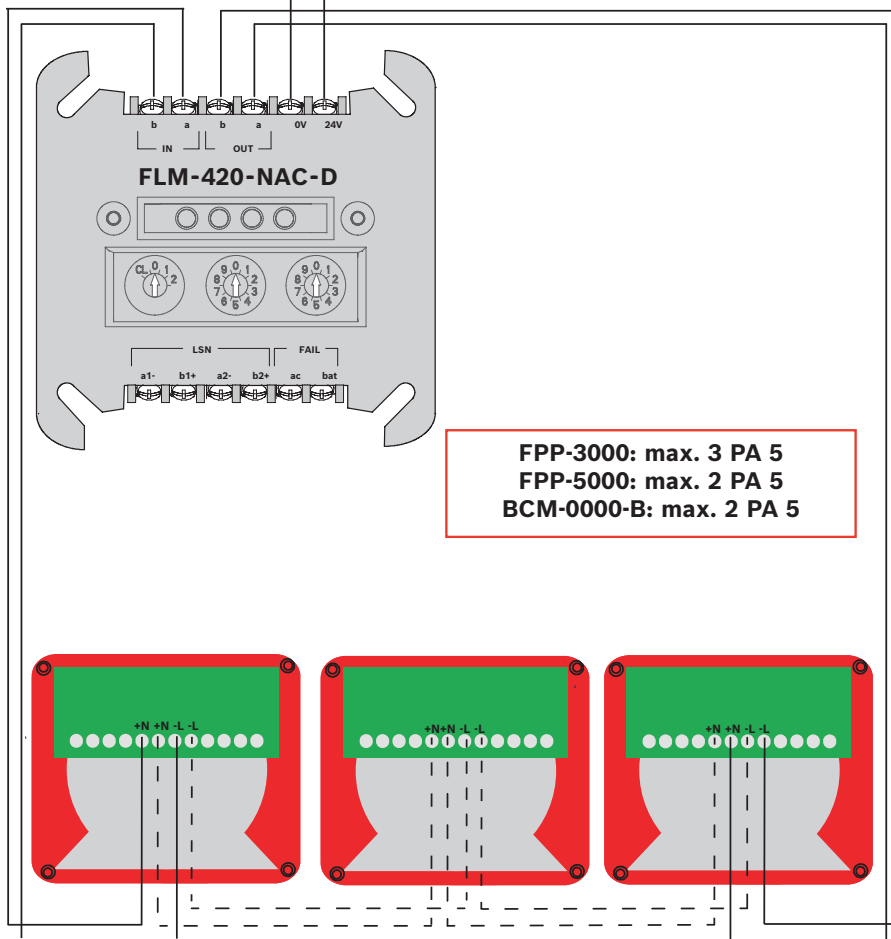
FPP-3000(ZSP135-DR)  
FPP-5000  
BCM-0000-B



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



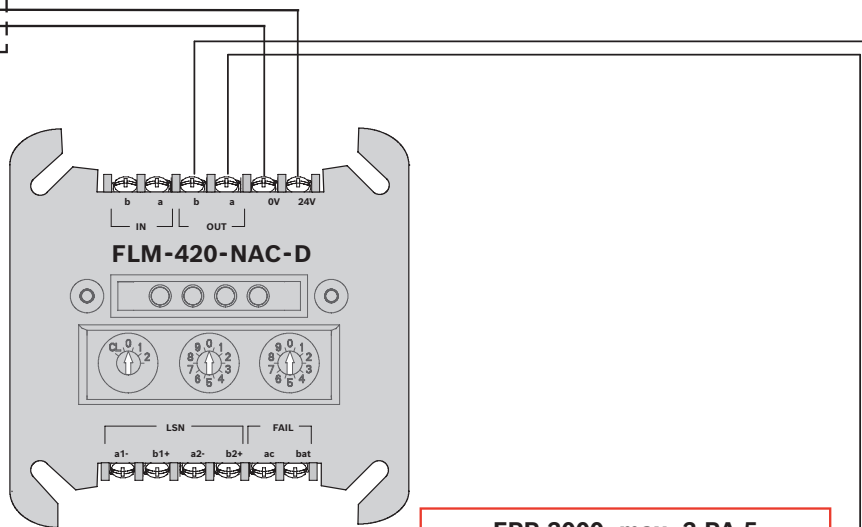
FPP-3000(ZSP135-DR)  
FPP-5000  
BCM-0000-B



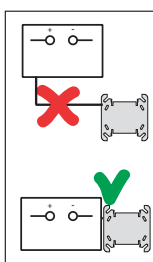
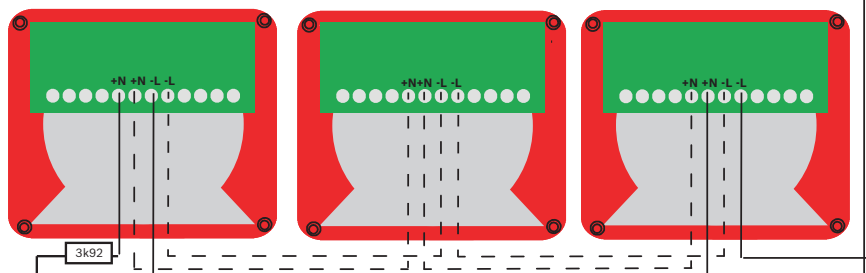


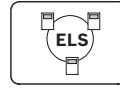


FPP-3000  
FPP-5000  
BCM-0000-B

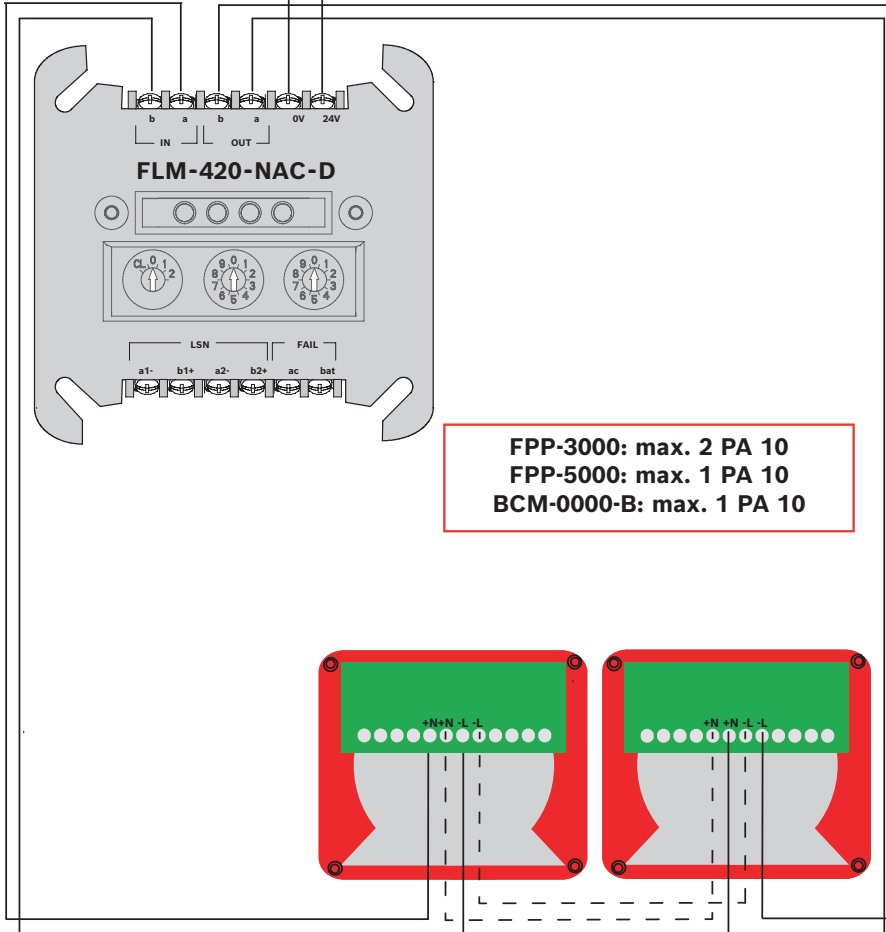


**FPP-3000: max. 3 PA 5**  
**FPP-5000: max. 2 PA 5**  
**BCM-0000-B: max. 2 PA 5**

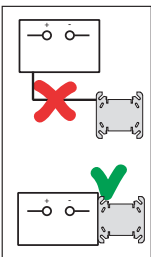


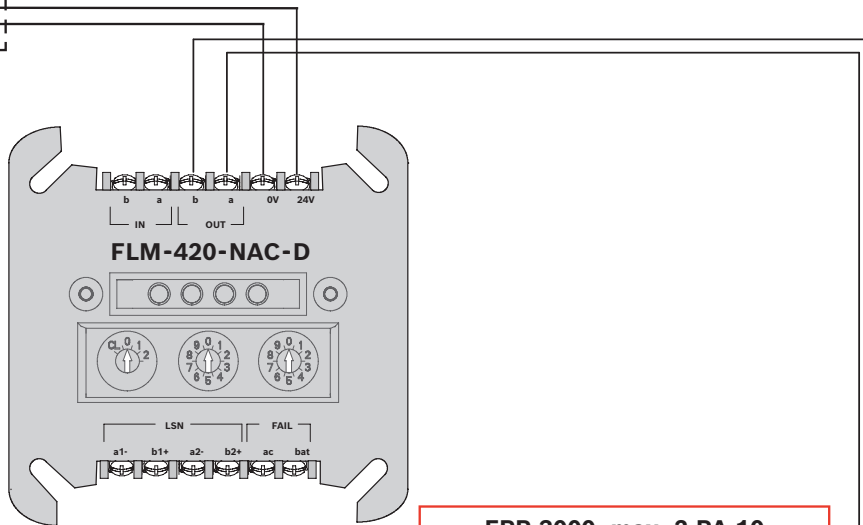
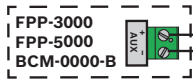


FPP-3000(ZSP135-DR)  
 FPP-5000  
 BCM-0000-B

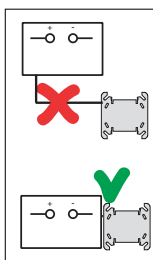
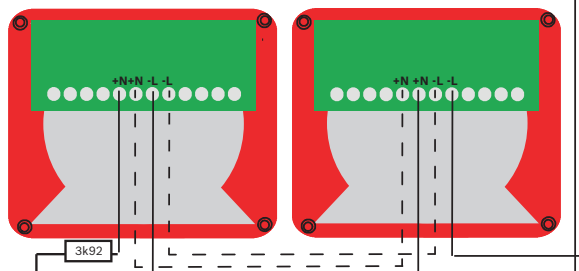


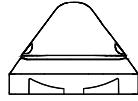
**FPP-3000: max. 2 PA 10**  
**FPP-5000: max. 1 PA 10**  
**BCM-0000-B: max. 1 PA 10**



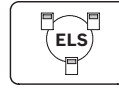


**FPP-3000: max. 2 PA 10**  
**FPP-5000: max. 1 PA 10**  
**BCM-0000-B: max. 1 PA 10**

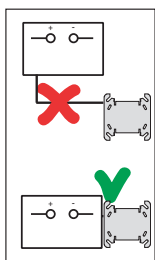
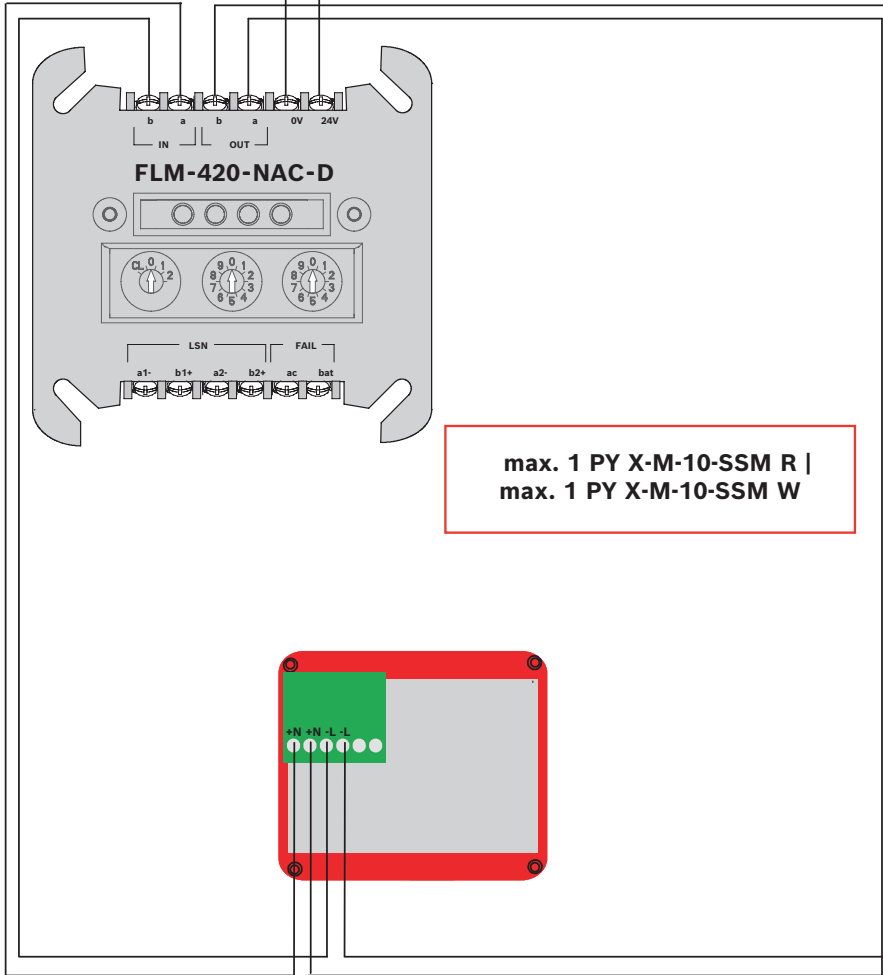


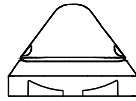


**PY X-M-10-SSM R**  
**PY X-M-10-SSM W**



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

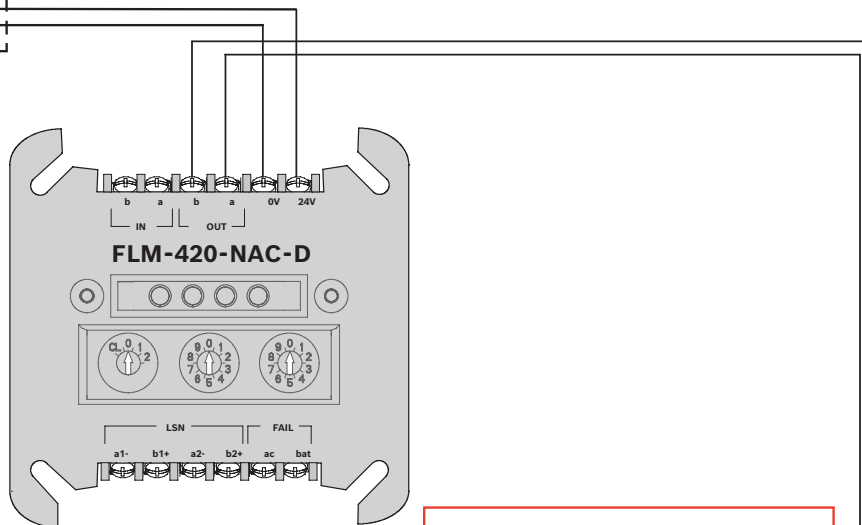




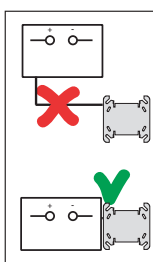
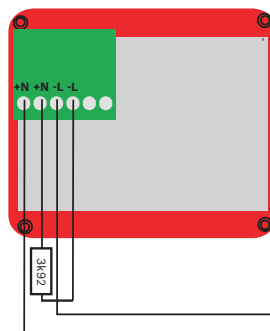
**PY X-M-10-SSM R**  
**PY X-M-10-SSM W**



FPP-3000  
FPP-5000  
BCM-0000-B

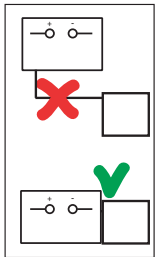
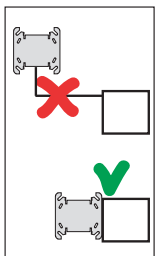
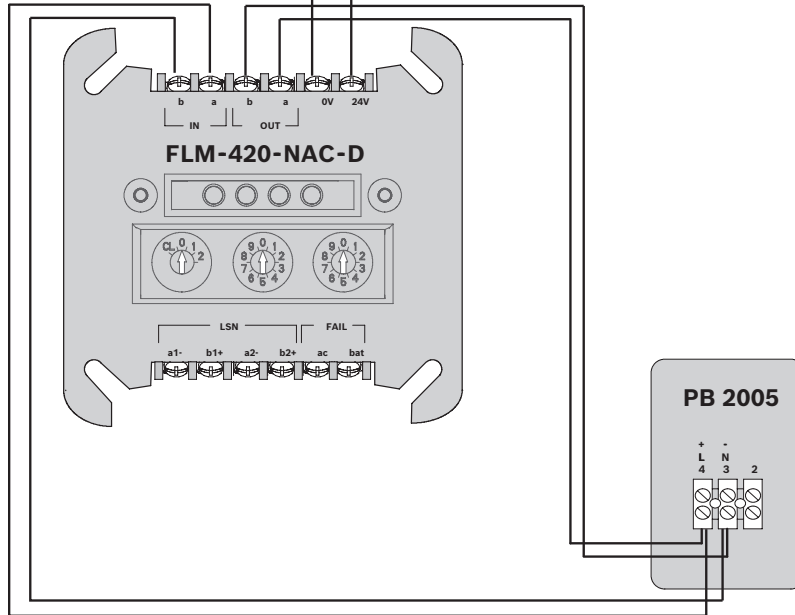
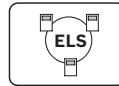


**max. 1 PY X-M-10-SSM R |**  
**max. 1 PY X-M-10-SSM W**



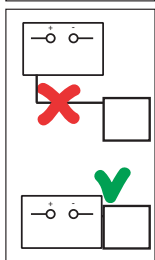
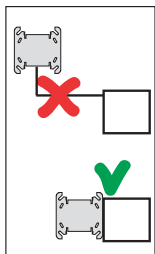
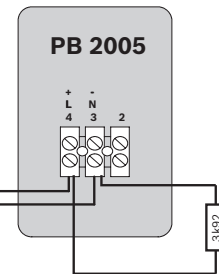
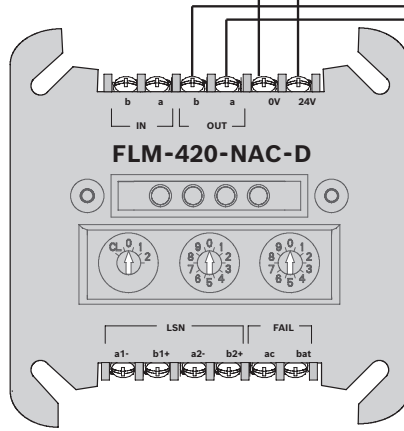
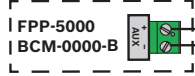


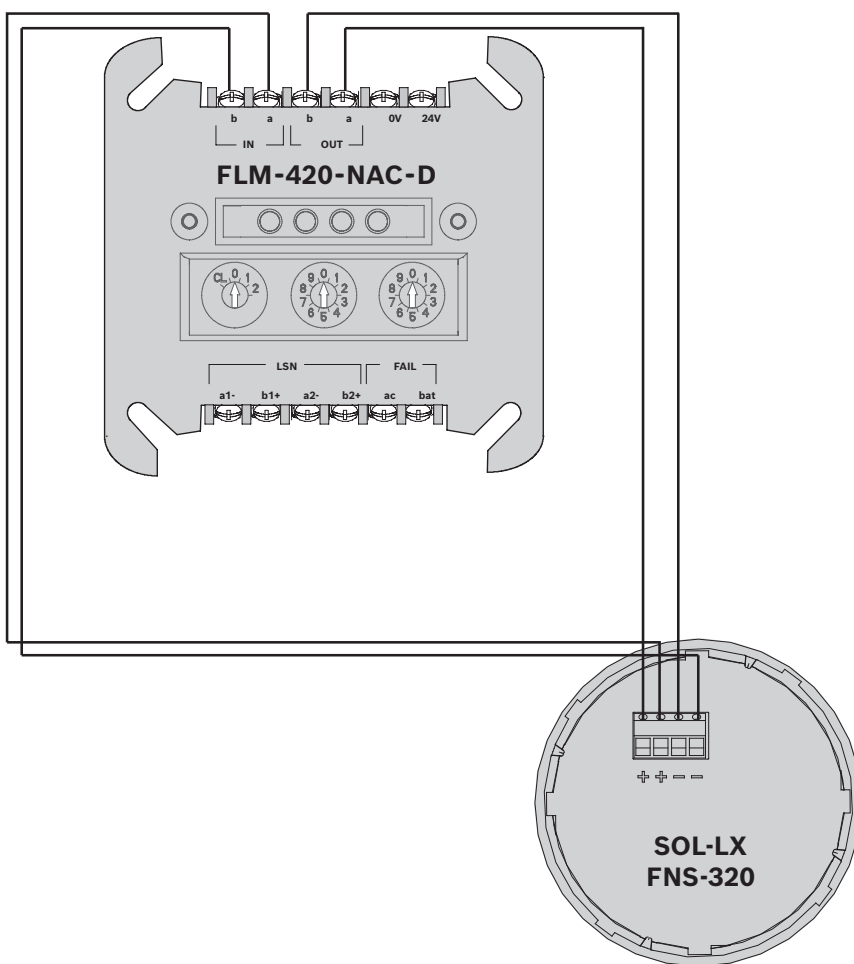
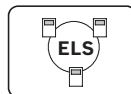
PB 2005



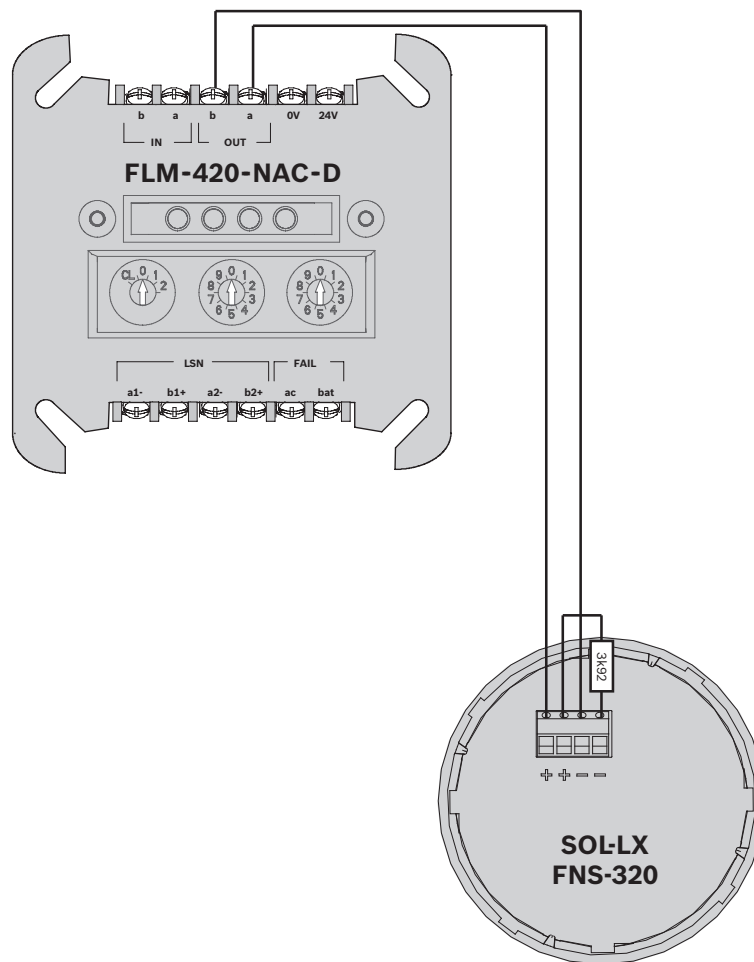
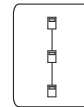


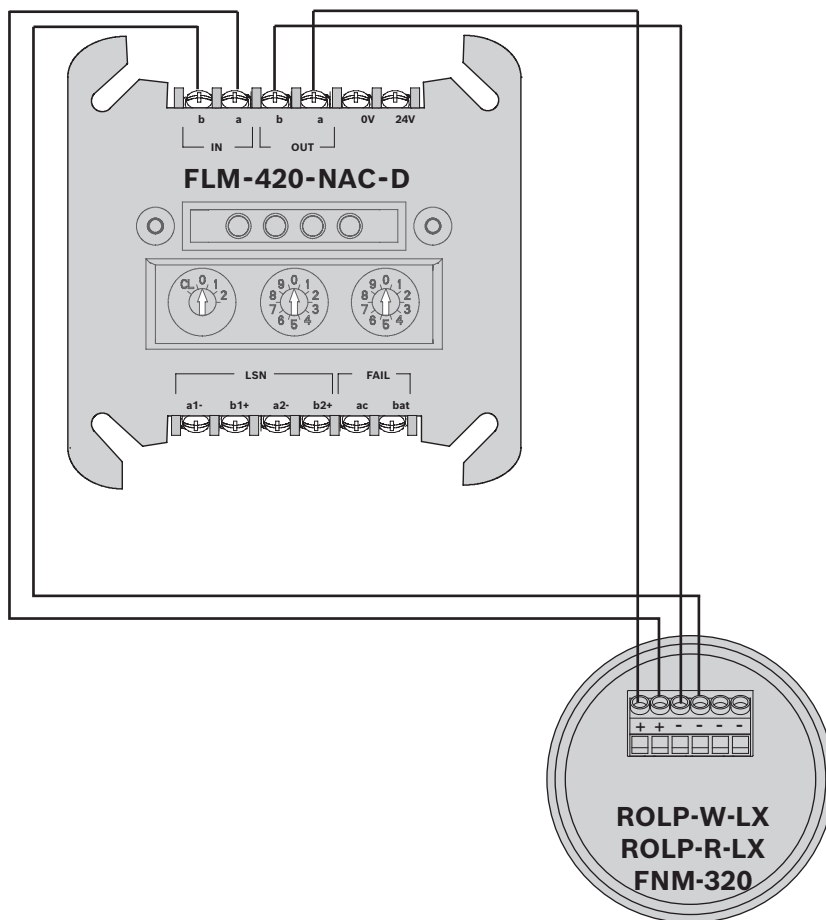
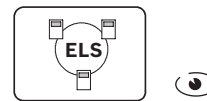
PB 2005

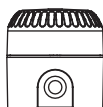




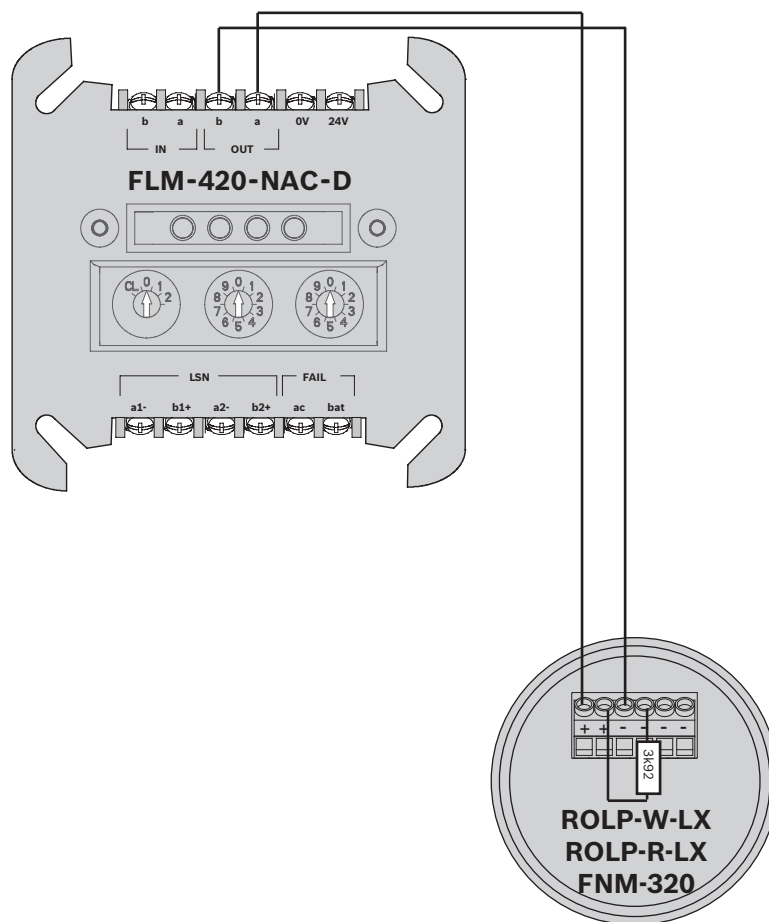
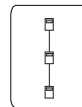




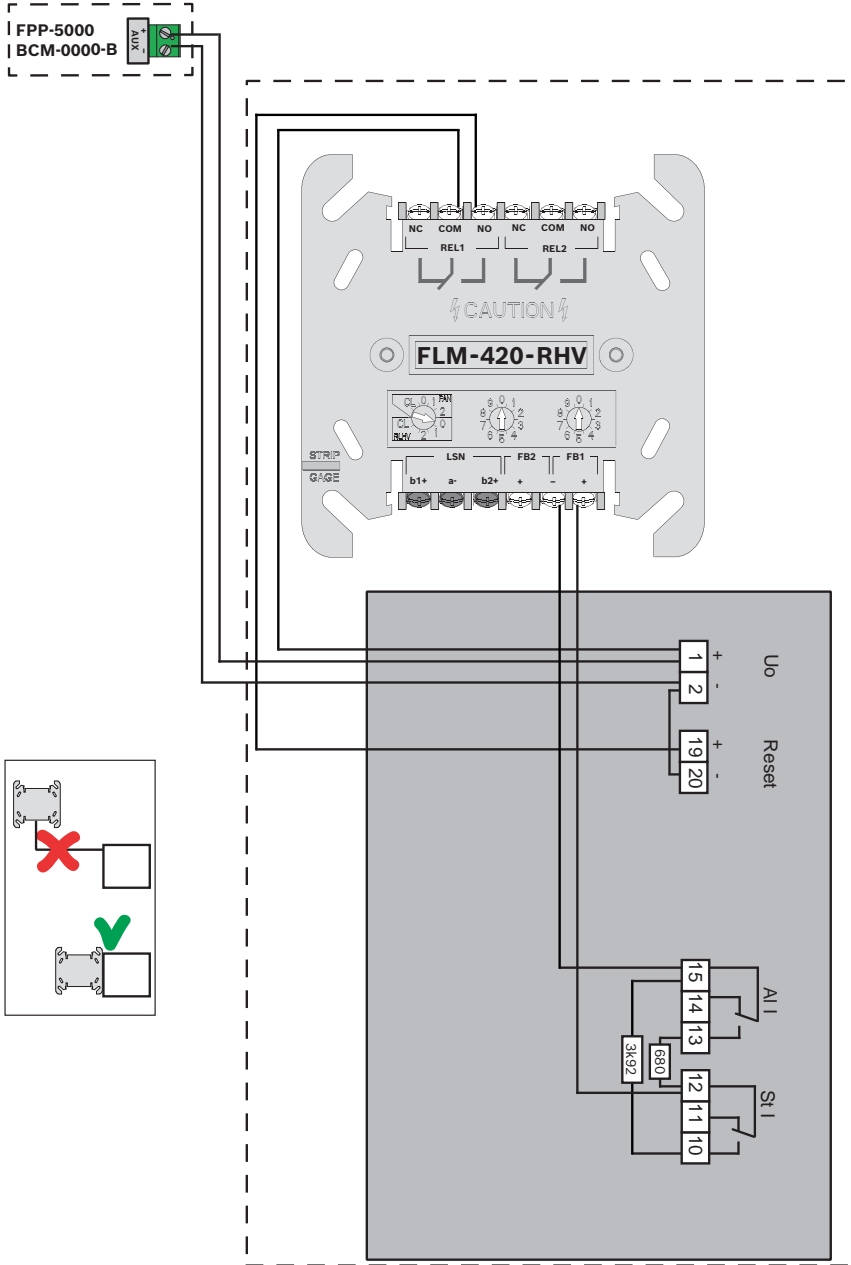




**ROLP-W-LX**  
**ROLP-R-LX**  
**FNM-320**

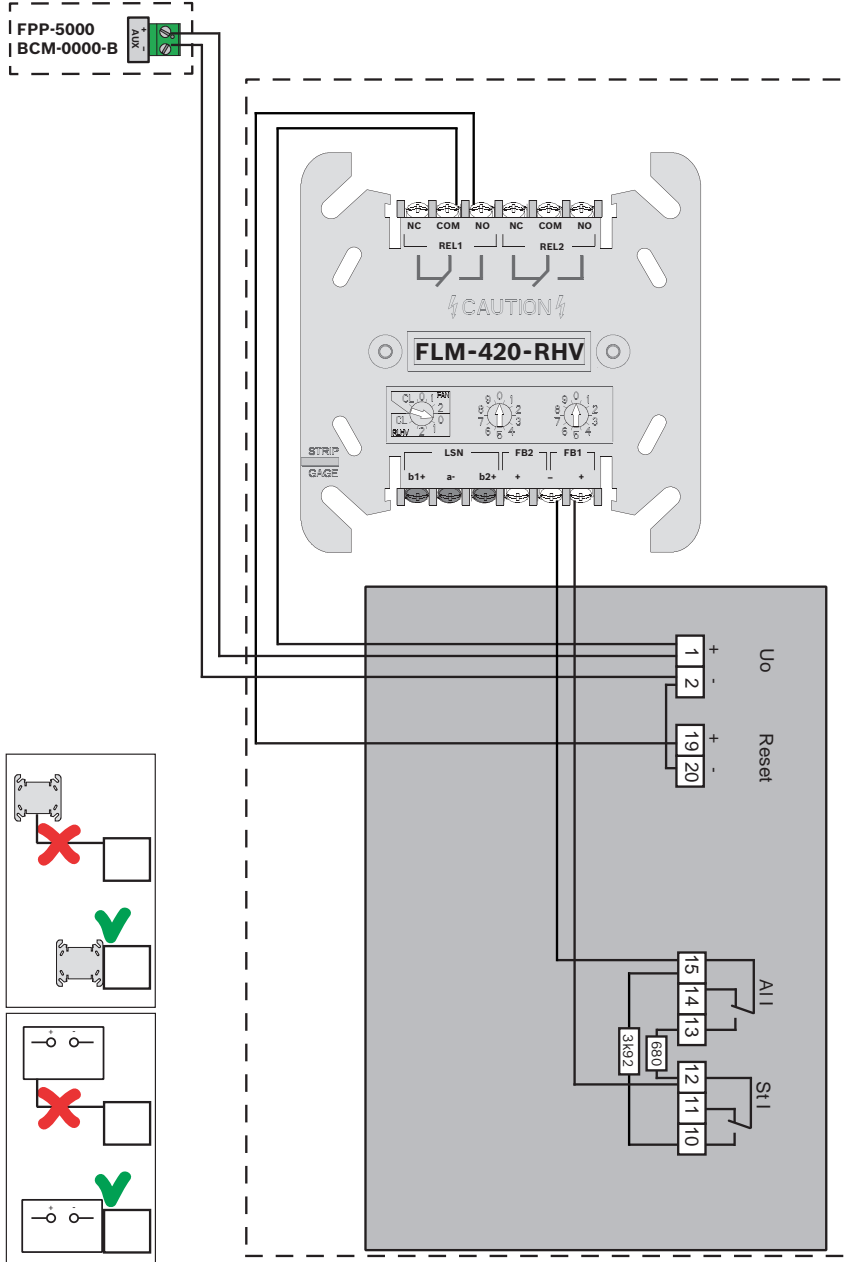


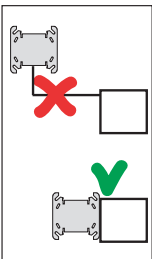
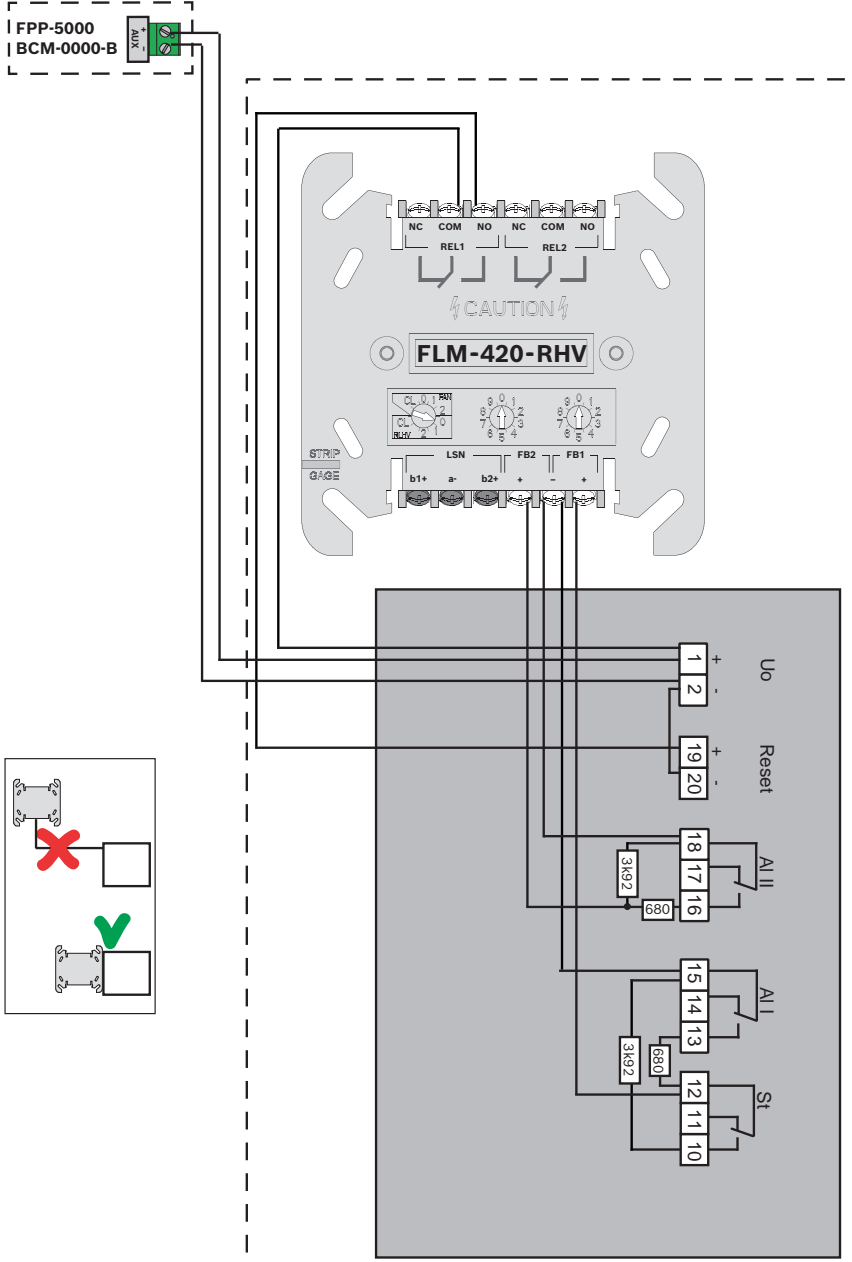
### 2.5.4 FLM-420-RHV





ELS

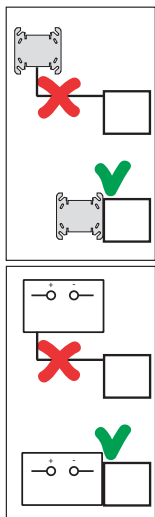
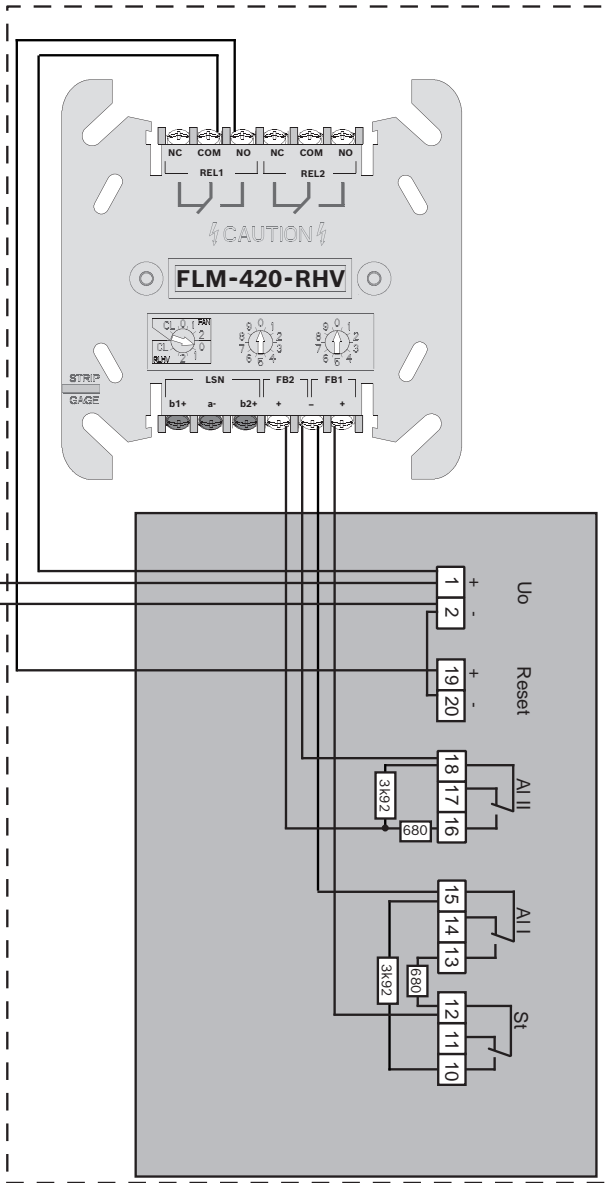


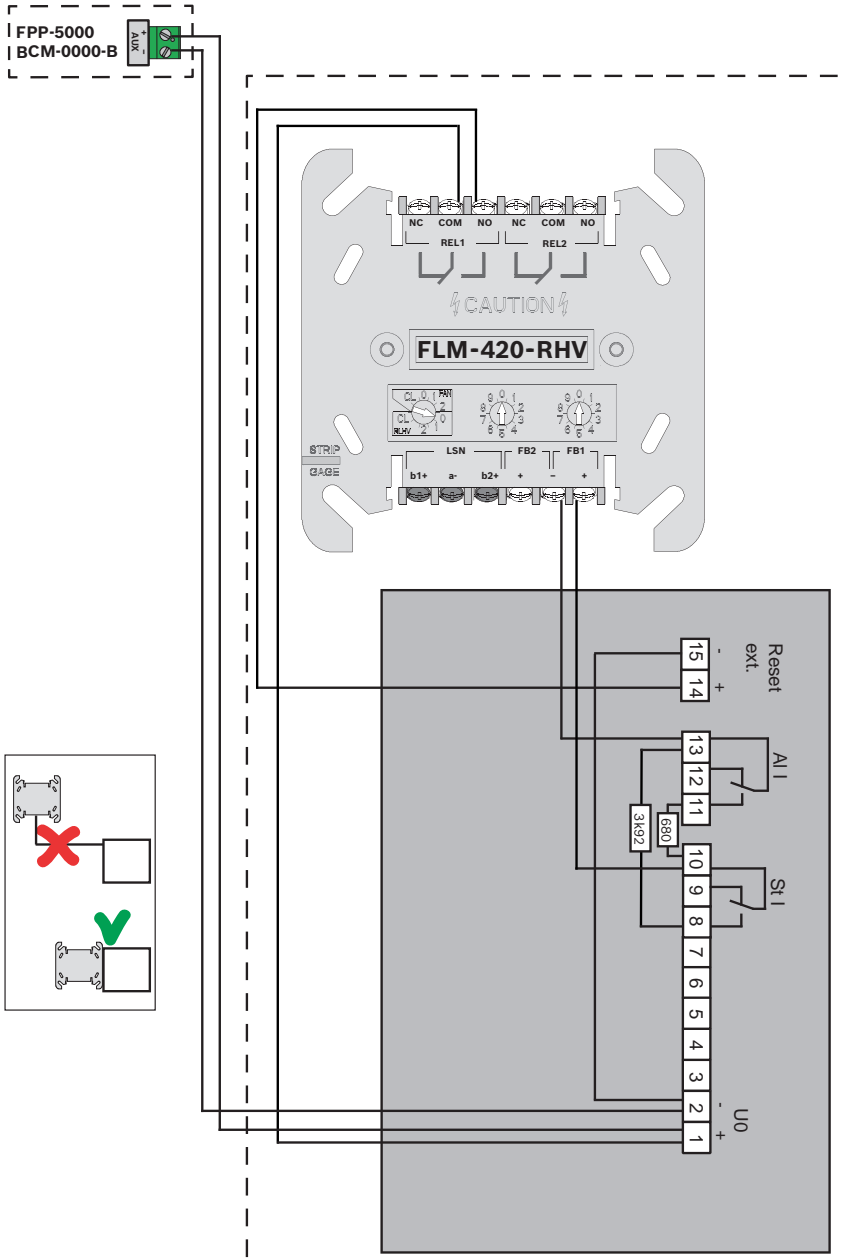




ELS

FPP-5000  
BCM-0000-B

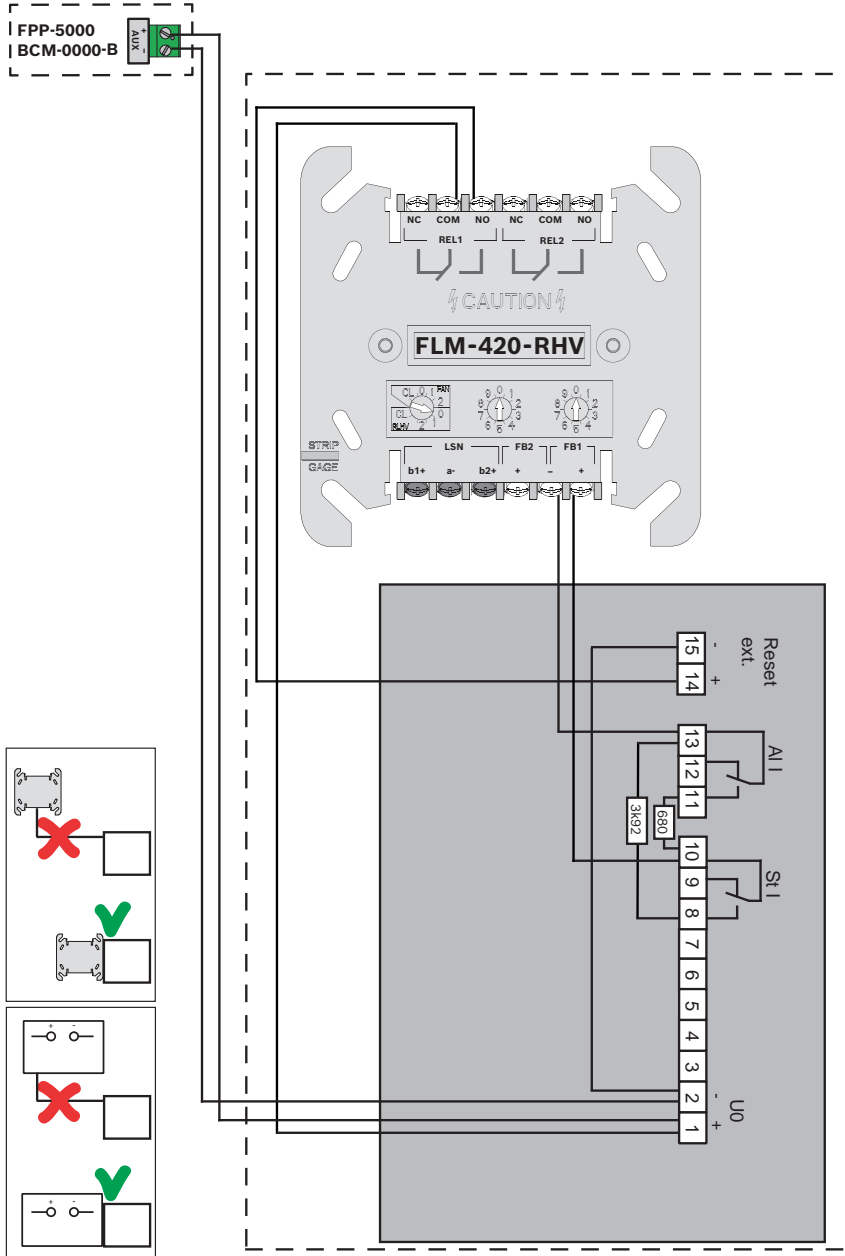






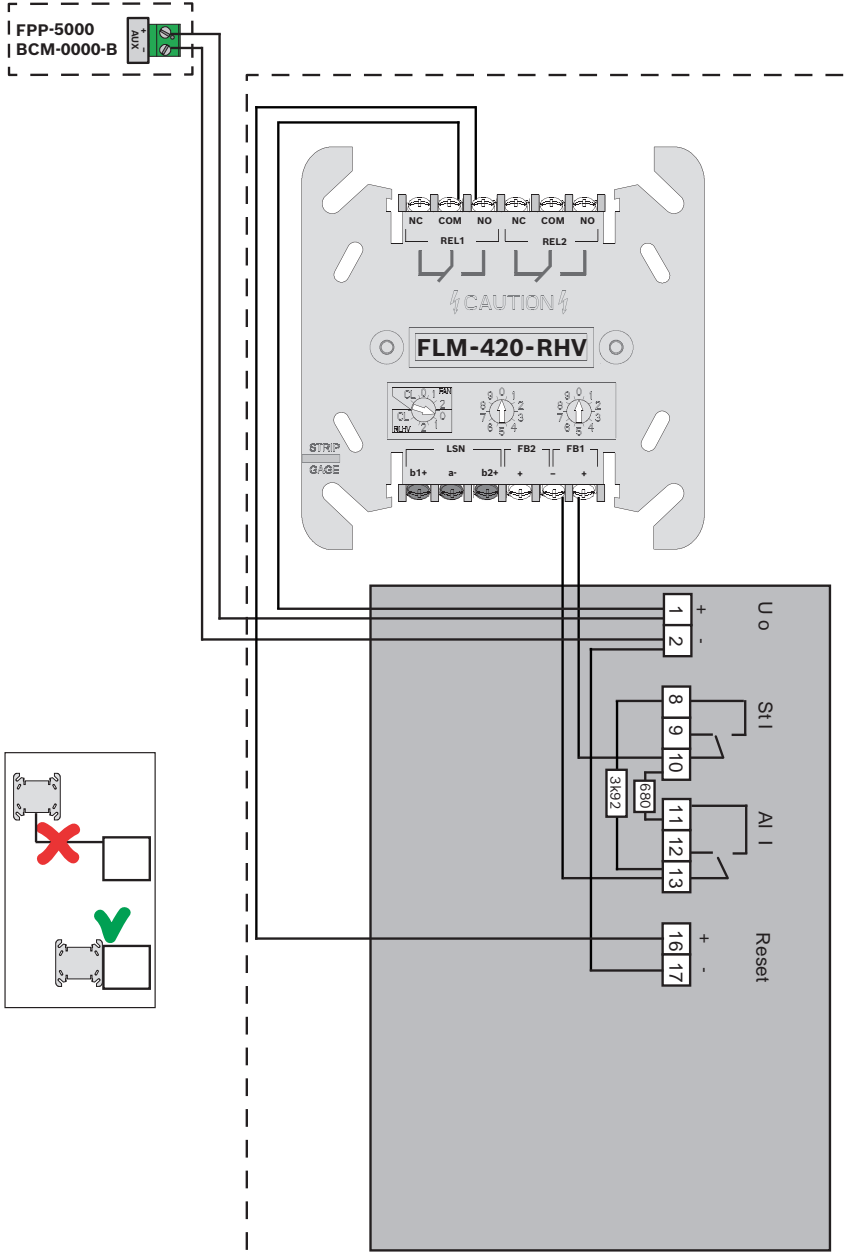


ELS



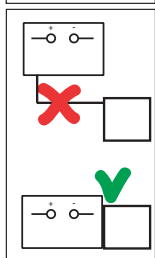
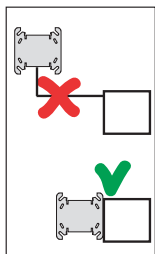
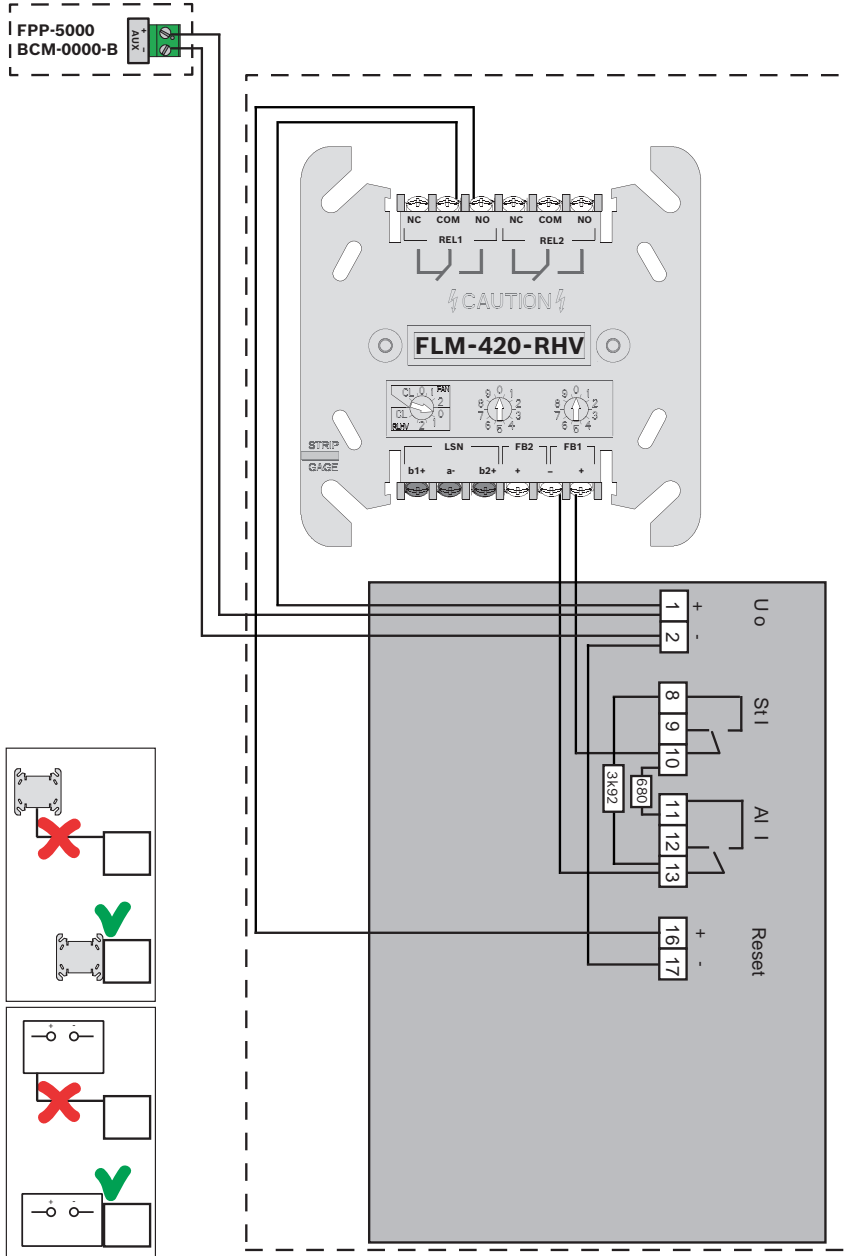


ADW 535-1



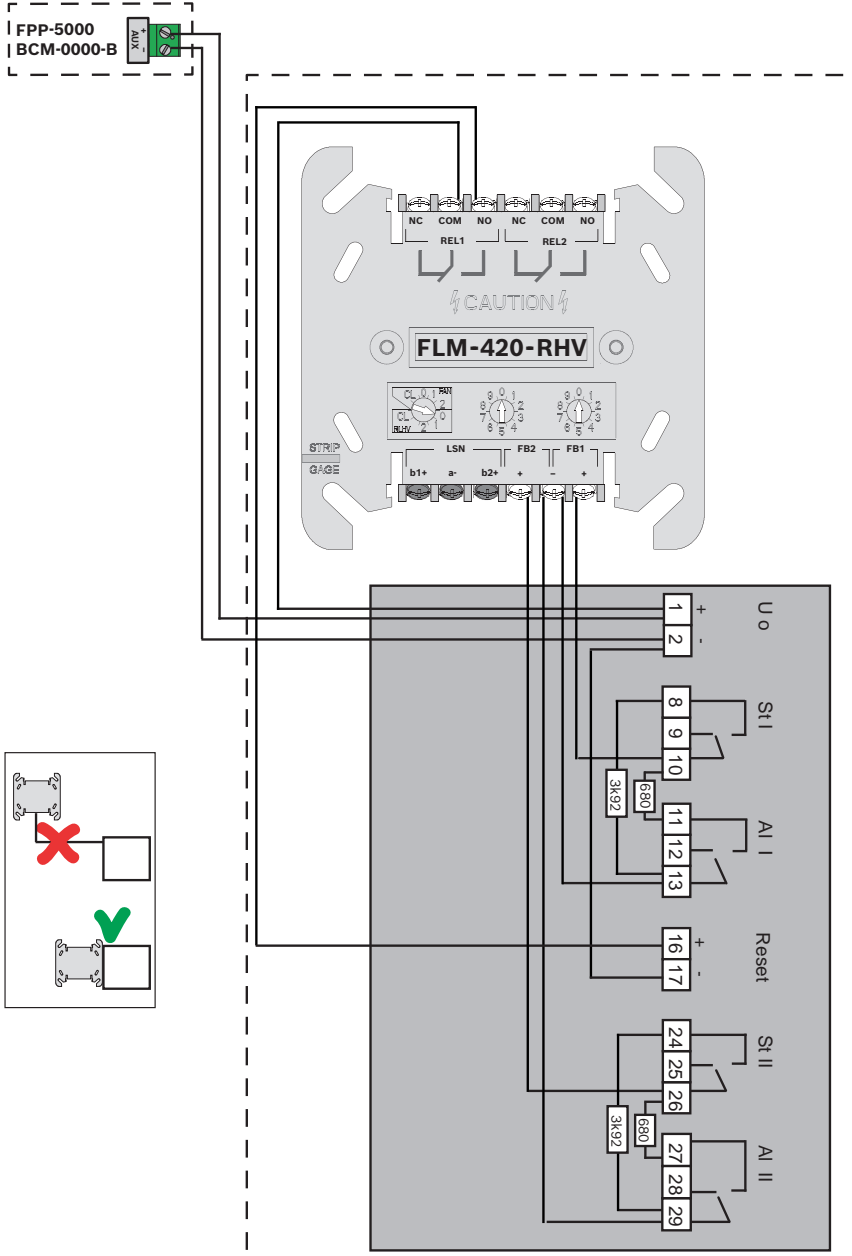


ELS





ADW 535-2

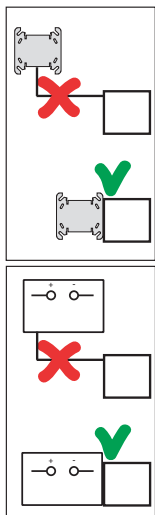
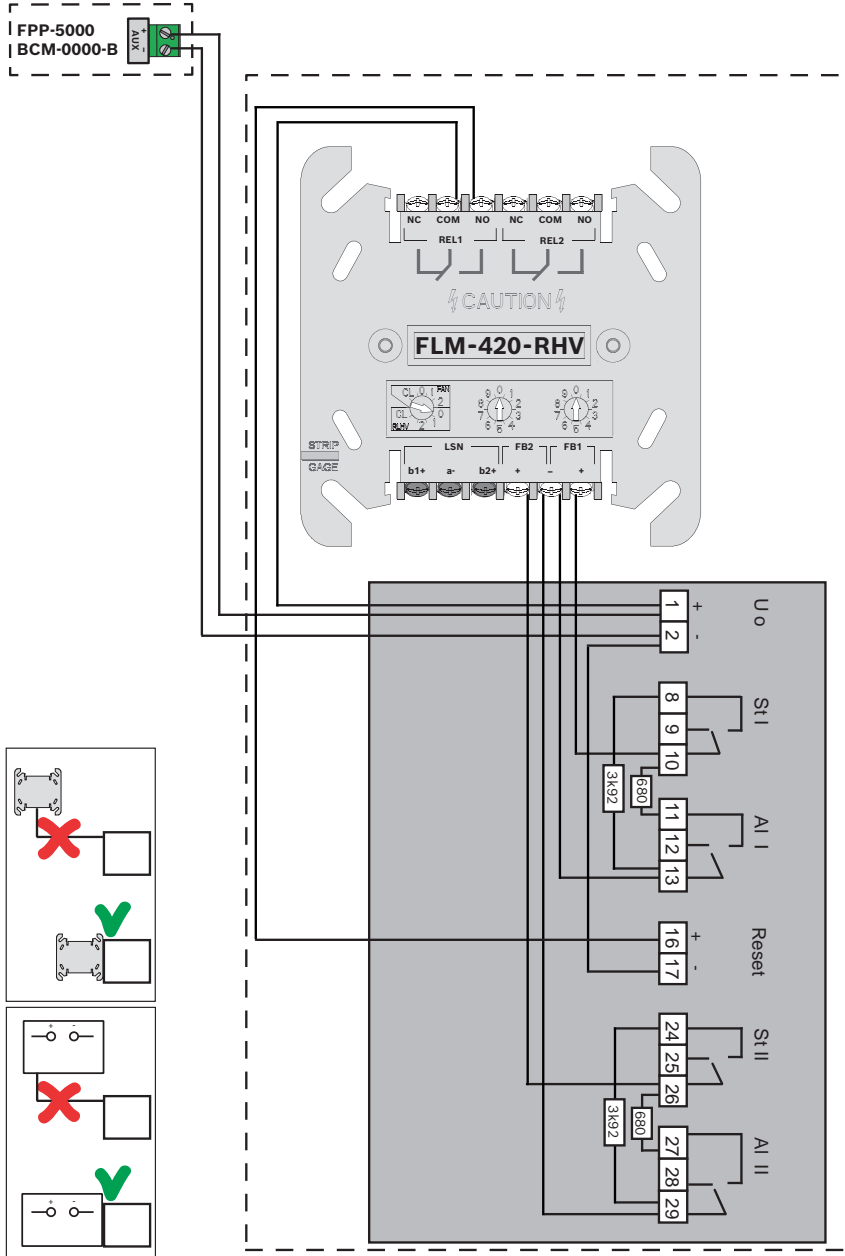




**ADW 535-2**

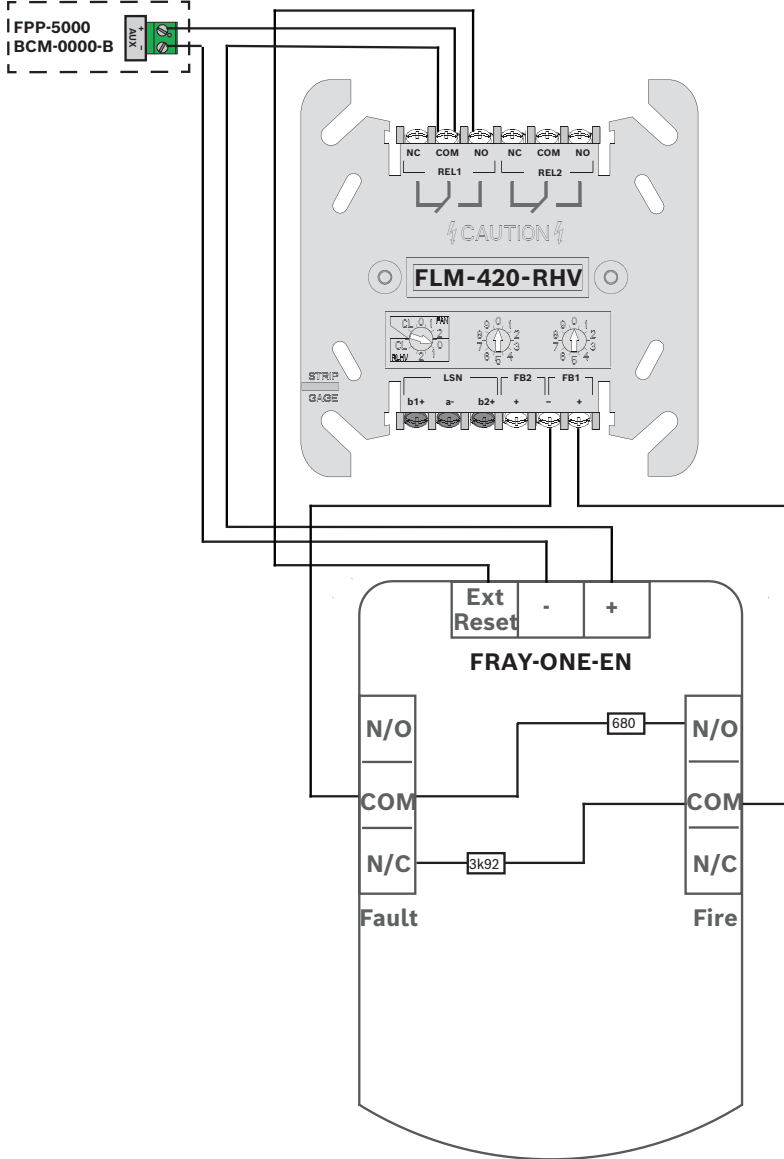


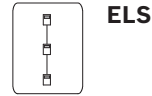
**ELS**



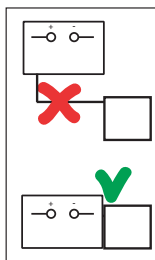
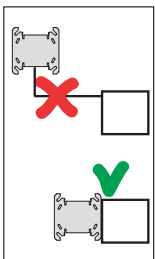
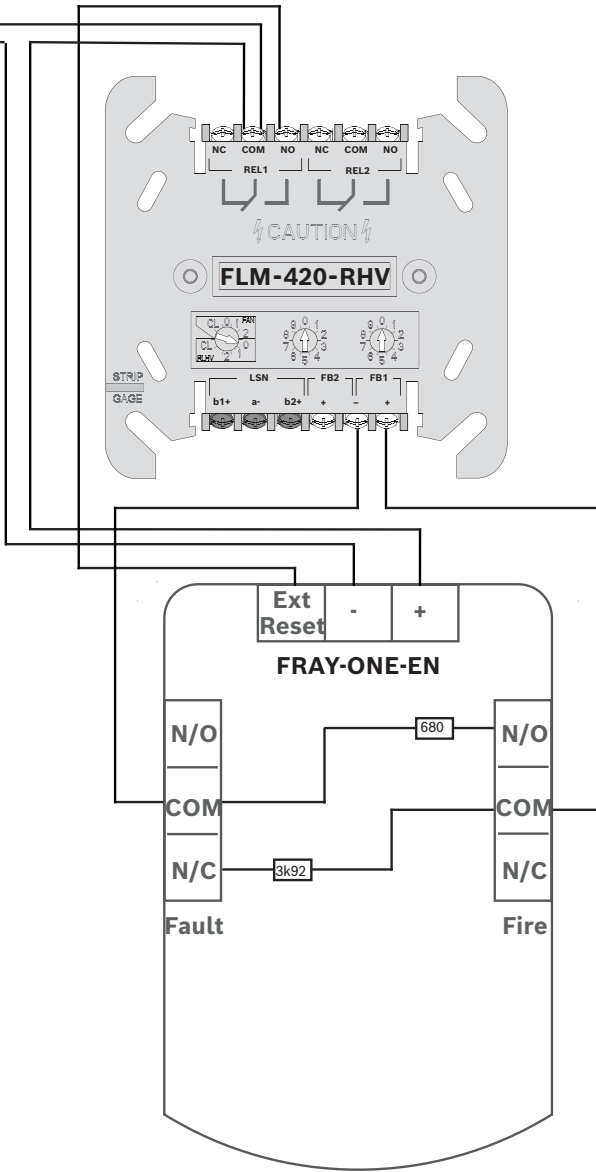


Fireray One





FPP-5000  
BCM-0000-B

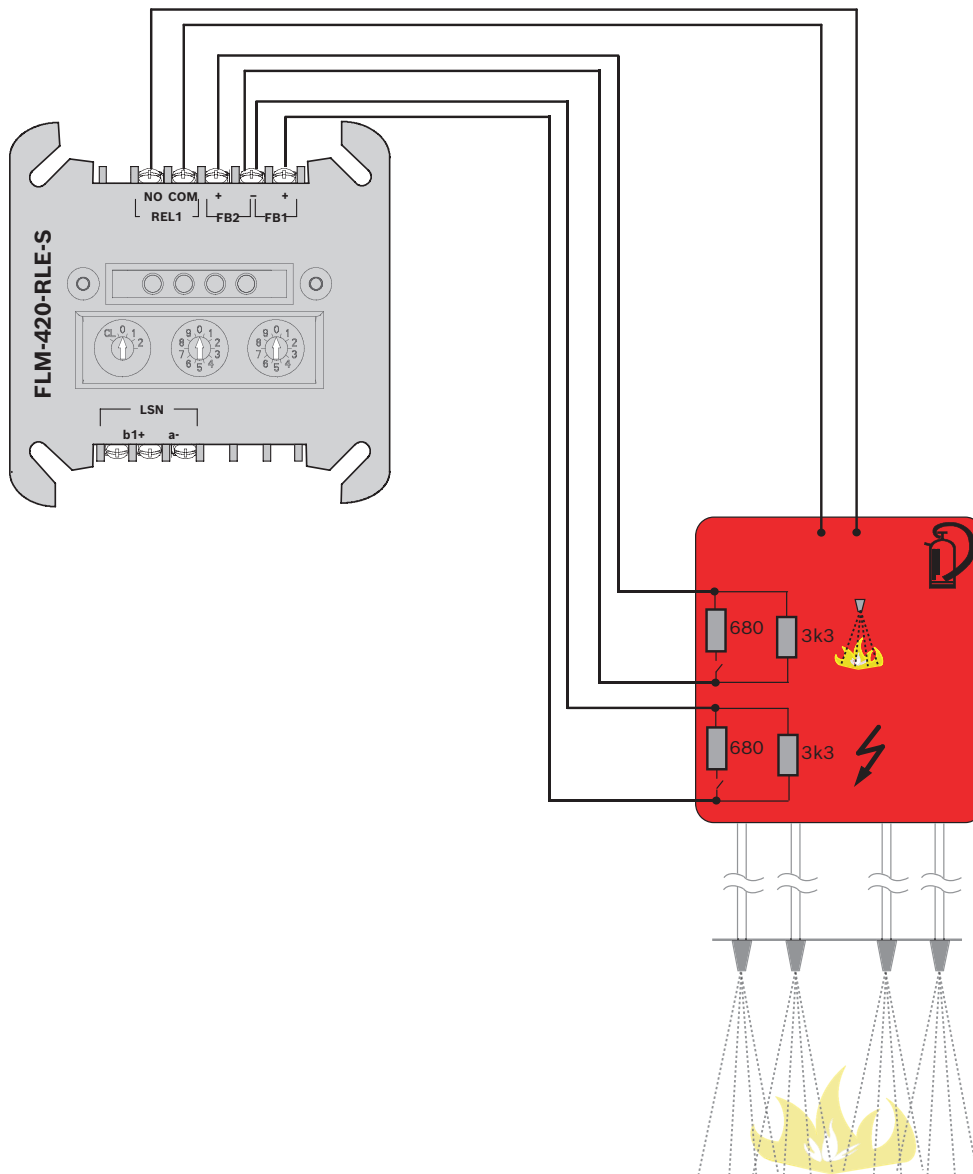


2.5.5

FLM-420-RLE-S

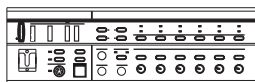
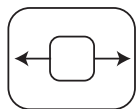


VdS 2496

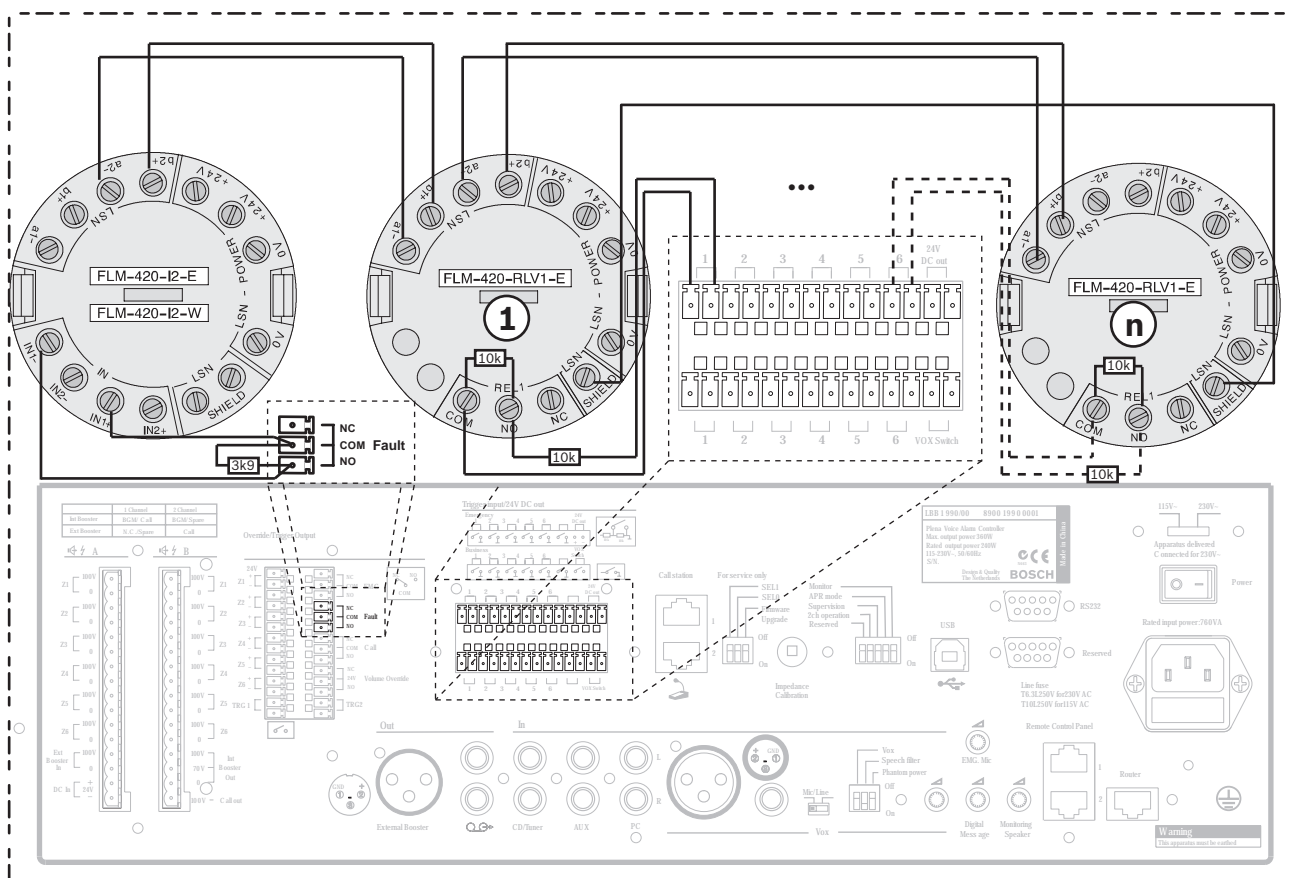




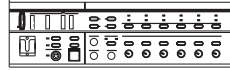
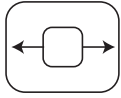
### 2.5.6 FLM-420-RLV1-E



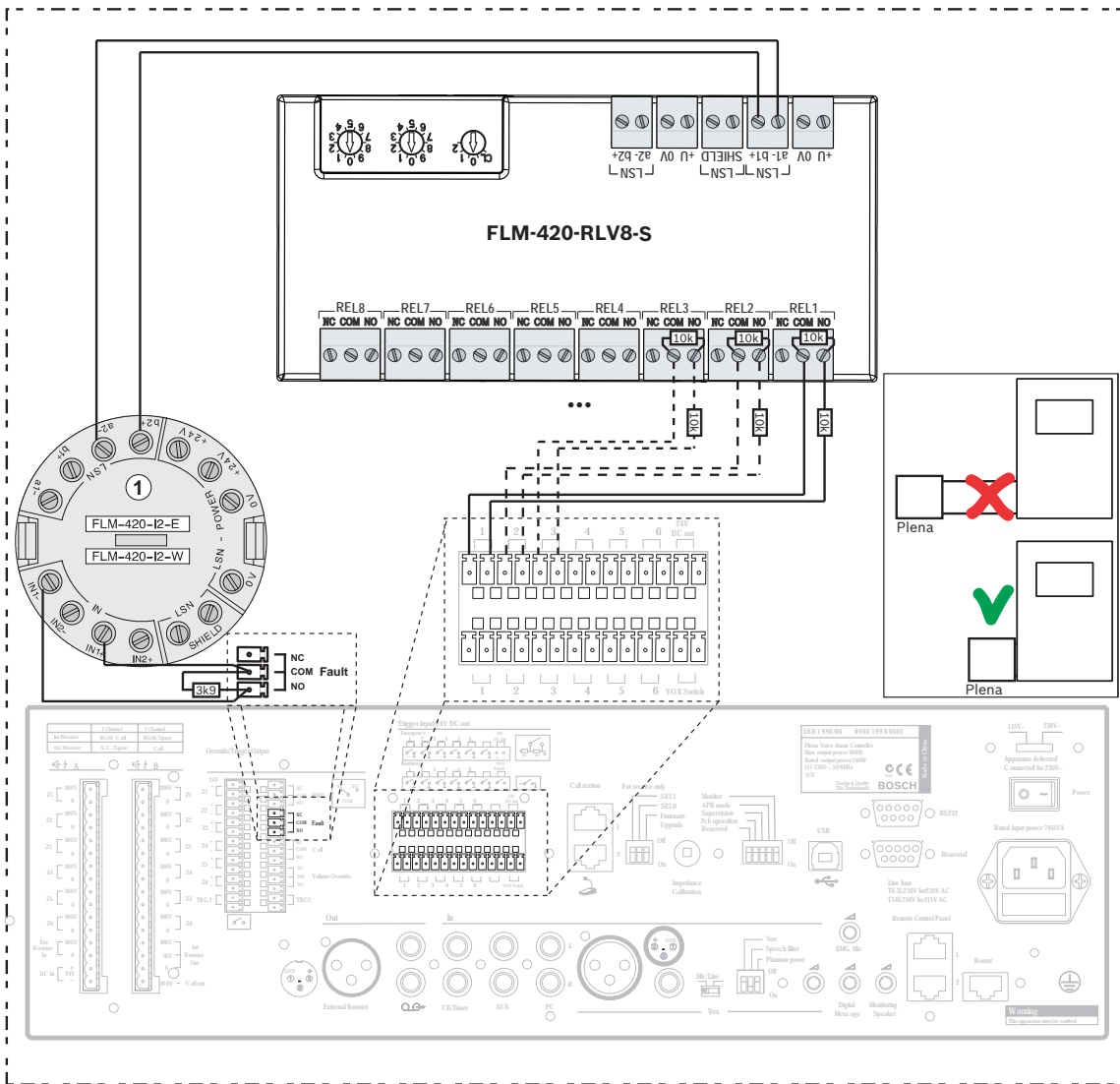
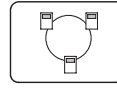
Plena



### 2.5.7 FLM-420-RLV8-S



Plena



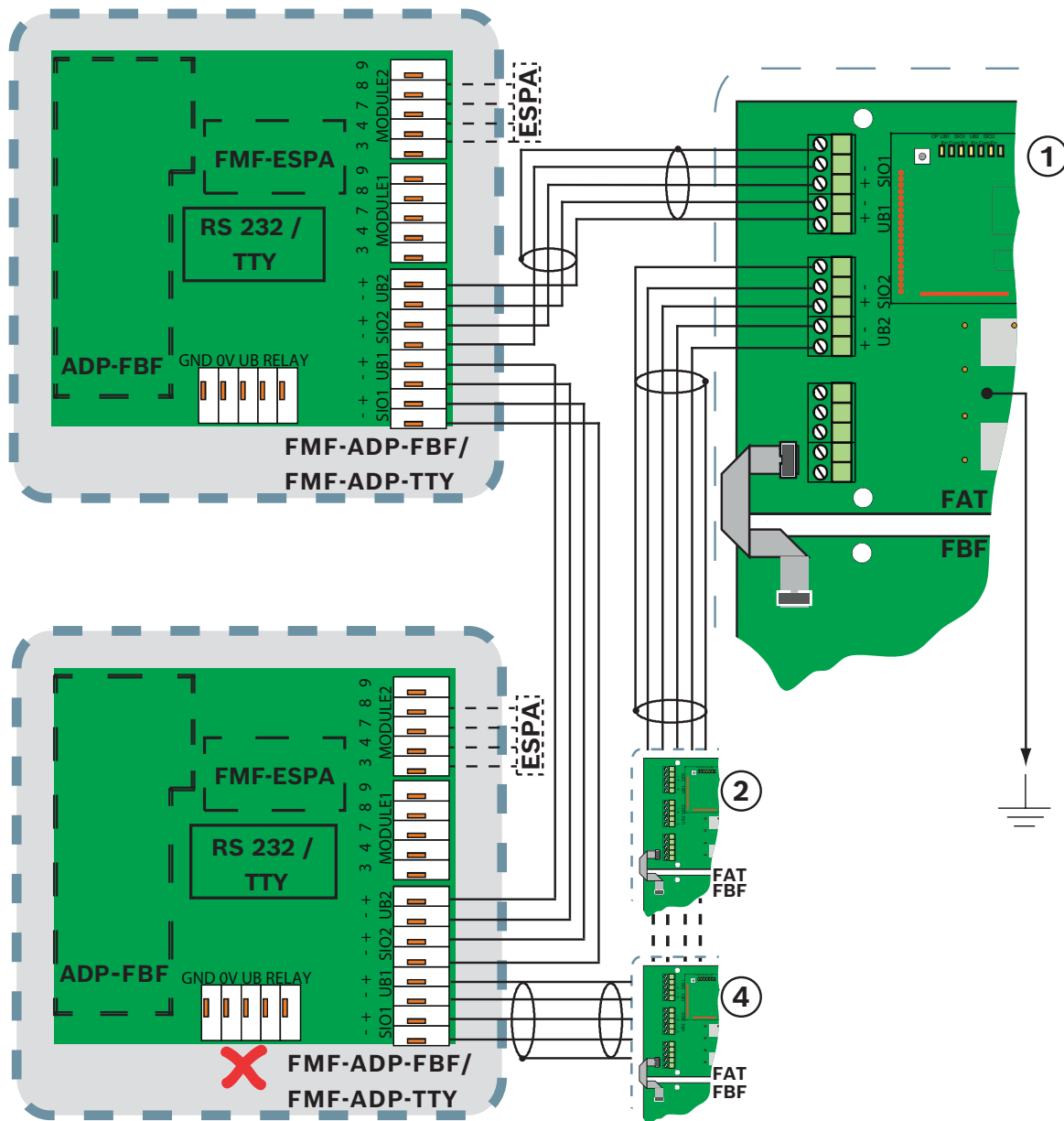
### 2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS



## 2.6

### EOL



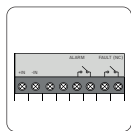
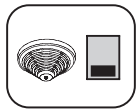
*CZM 0004 A, page 189*

*LSN 0300 A, page 201*

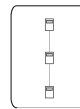
*FLM-420/4-CON-S/D, page 246*

2.6.1

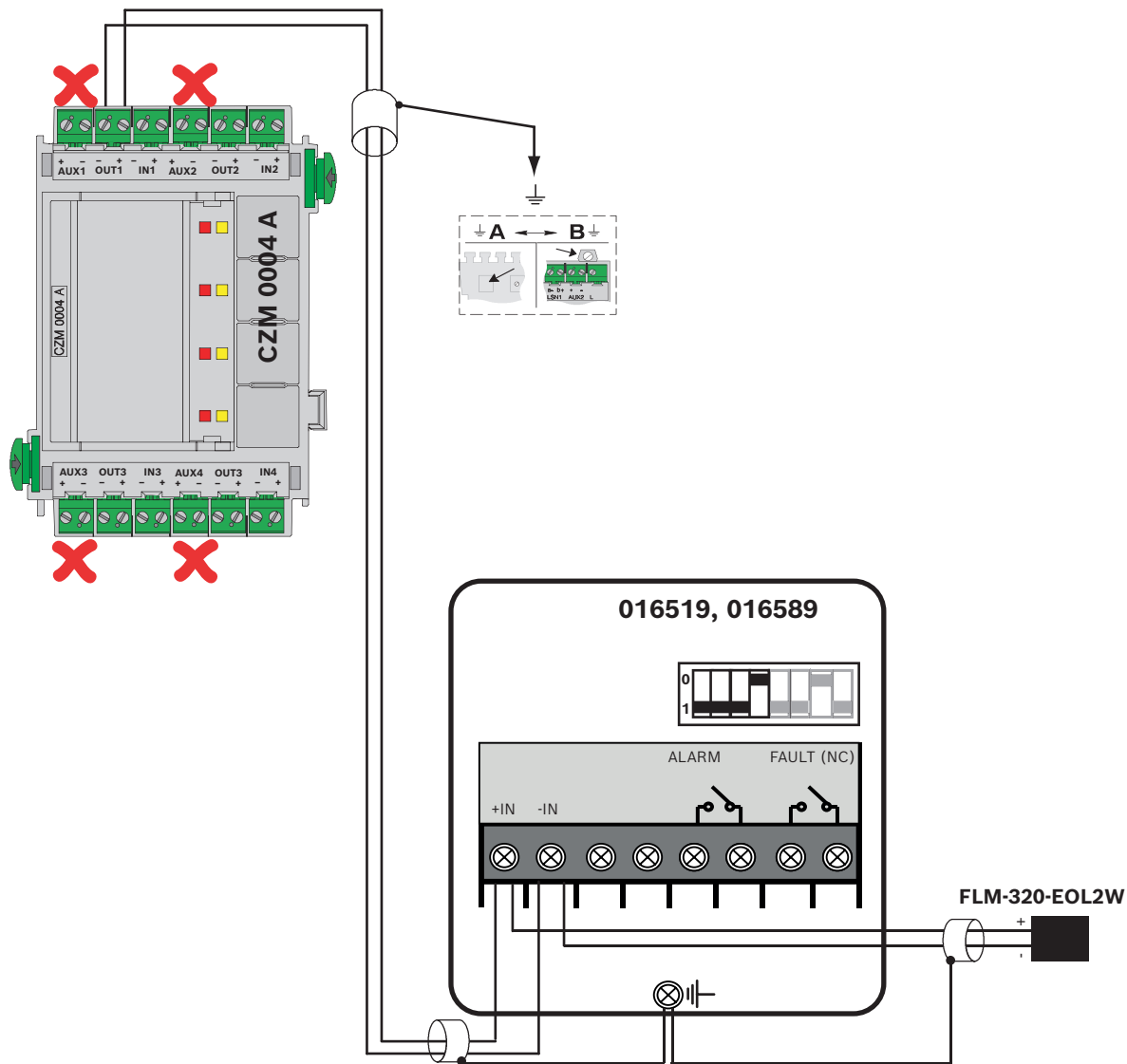
CZM 0004 A

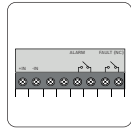


016519, 016589  
IR3 Flame Detector

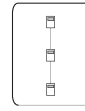


ELS

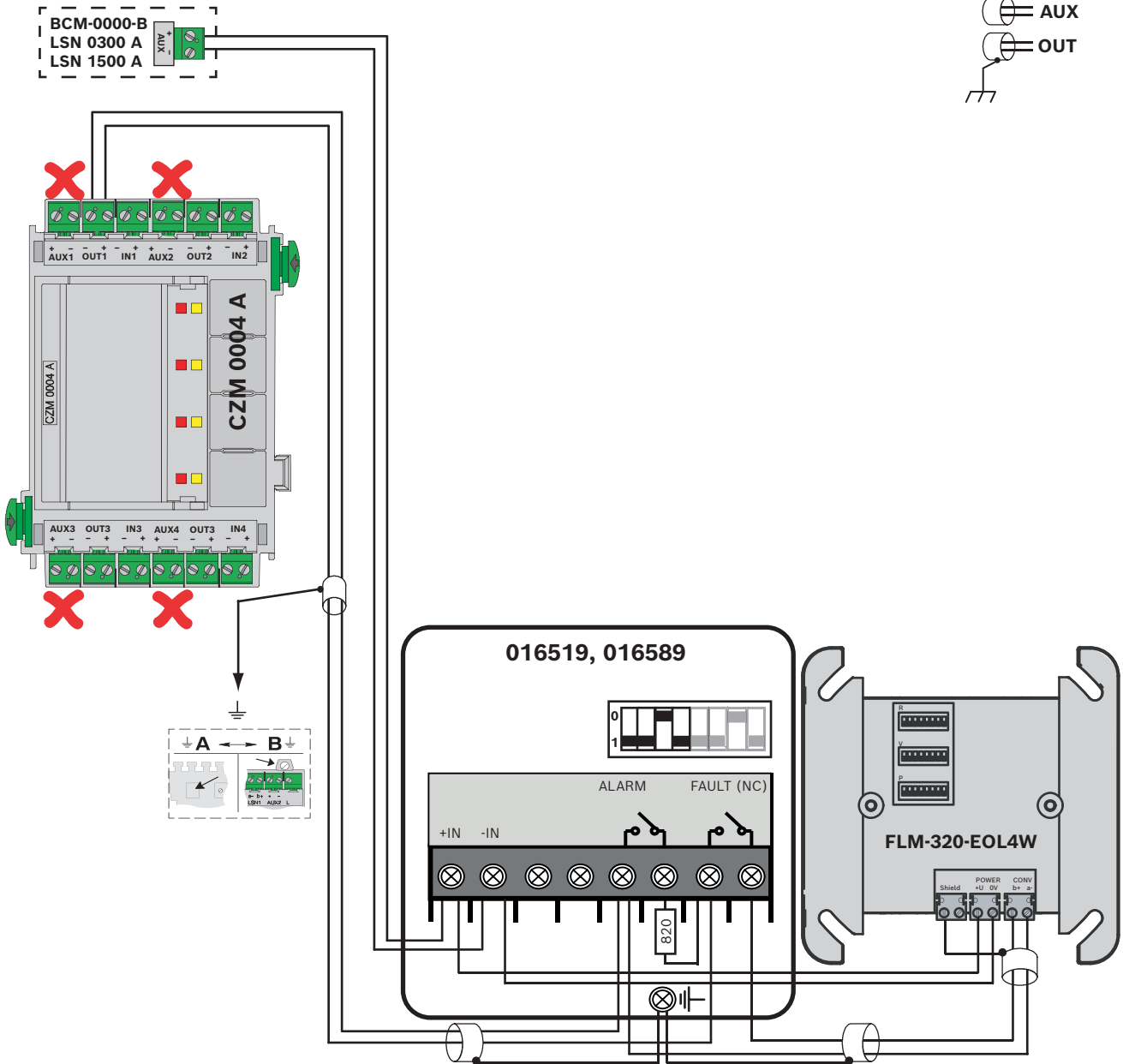




016519, 016589  
IR3 Flame Detector



ELS

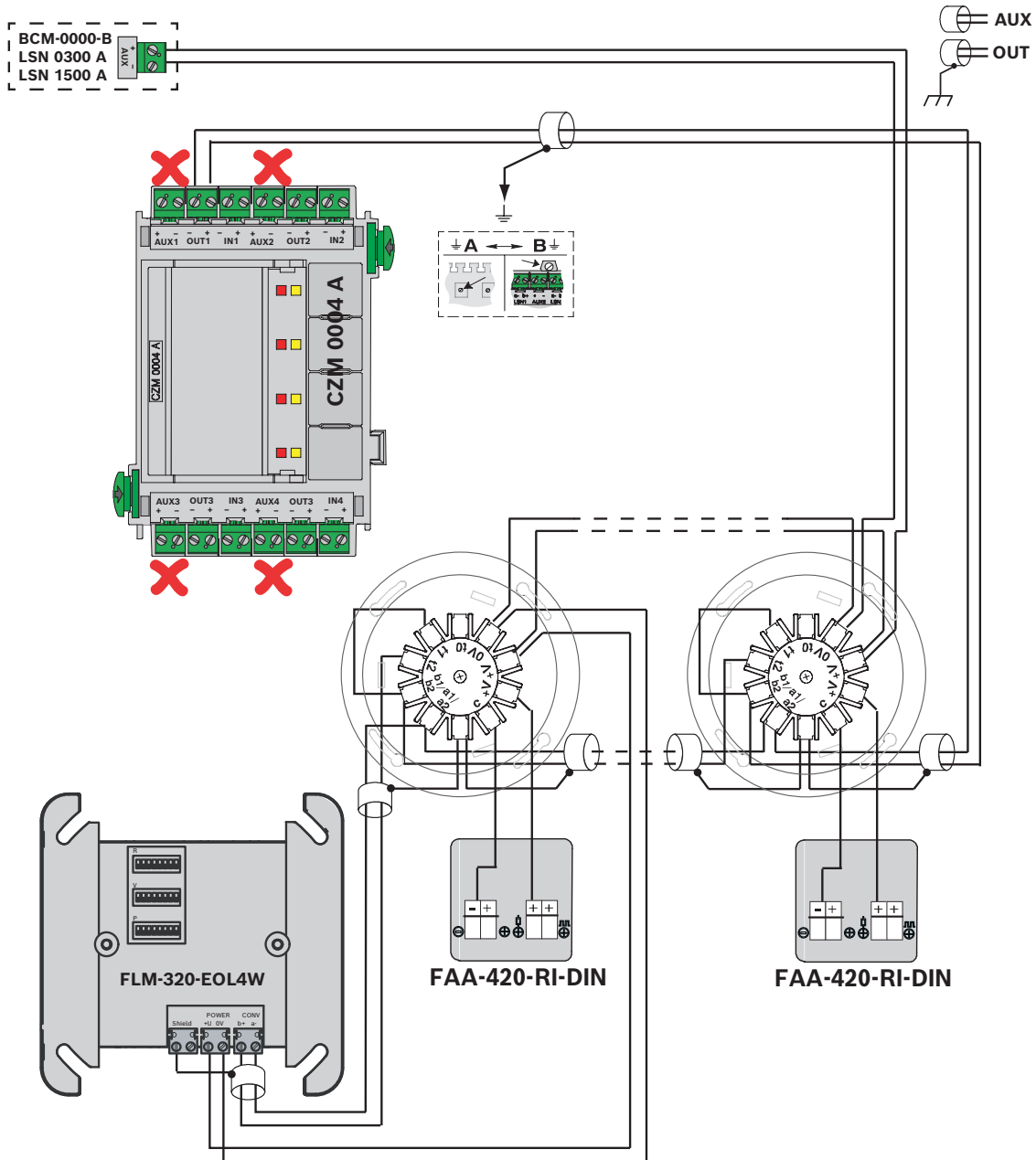


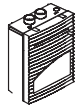


FCA-500-EU  
FCP-O 500  
FCP-O 500-P  
FCP-OC 500  
FCP-OC 500-P

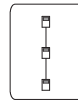


ELS



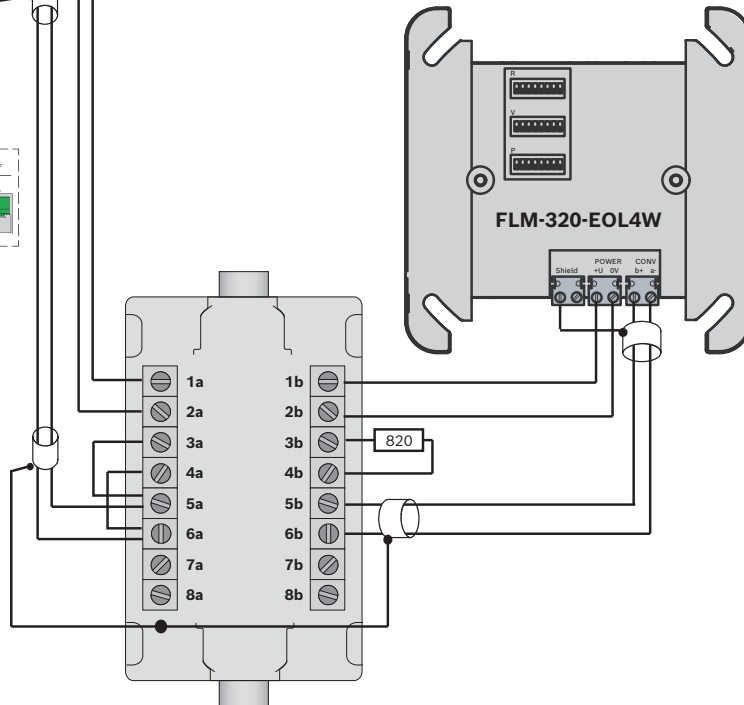
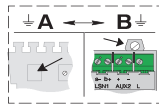
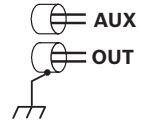
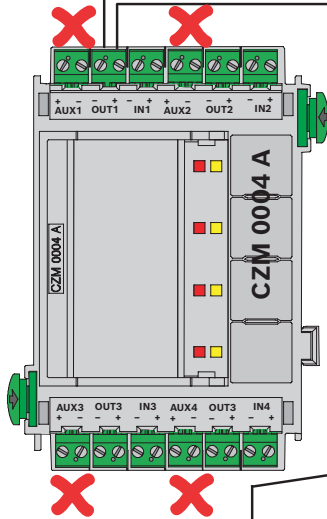


FCS-320-TM Series

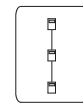
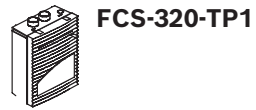


ELS

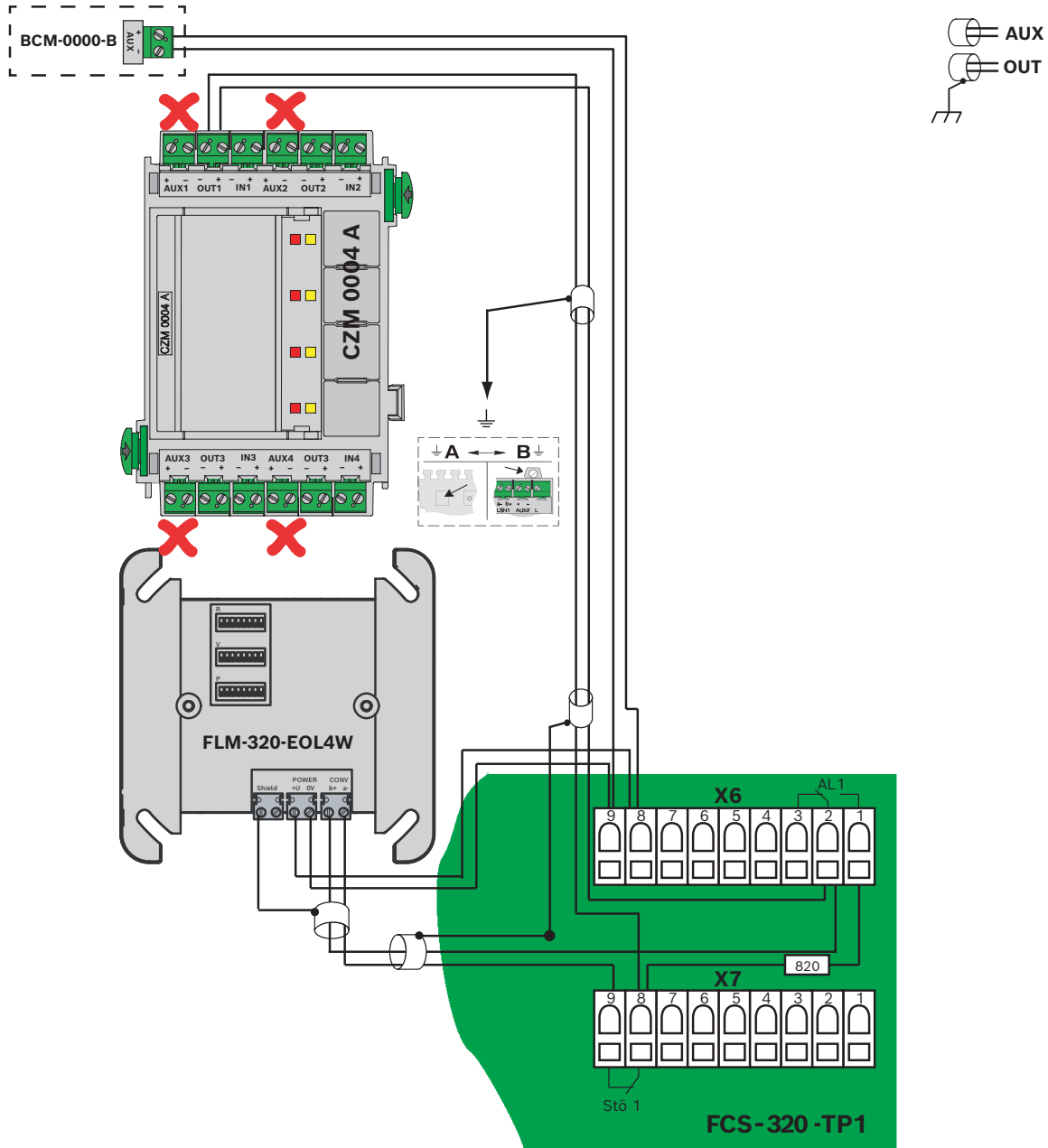
BCM-0000-B  
LSN 0300 A  
LSN 1500 A

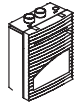






ELS

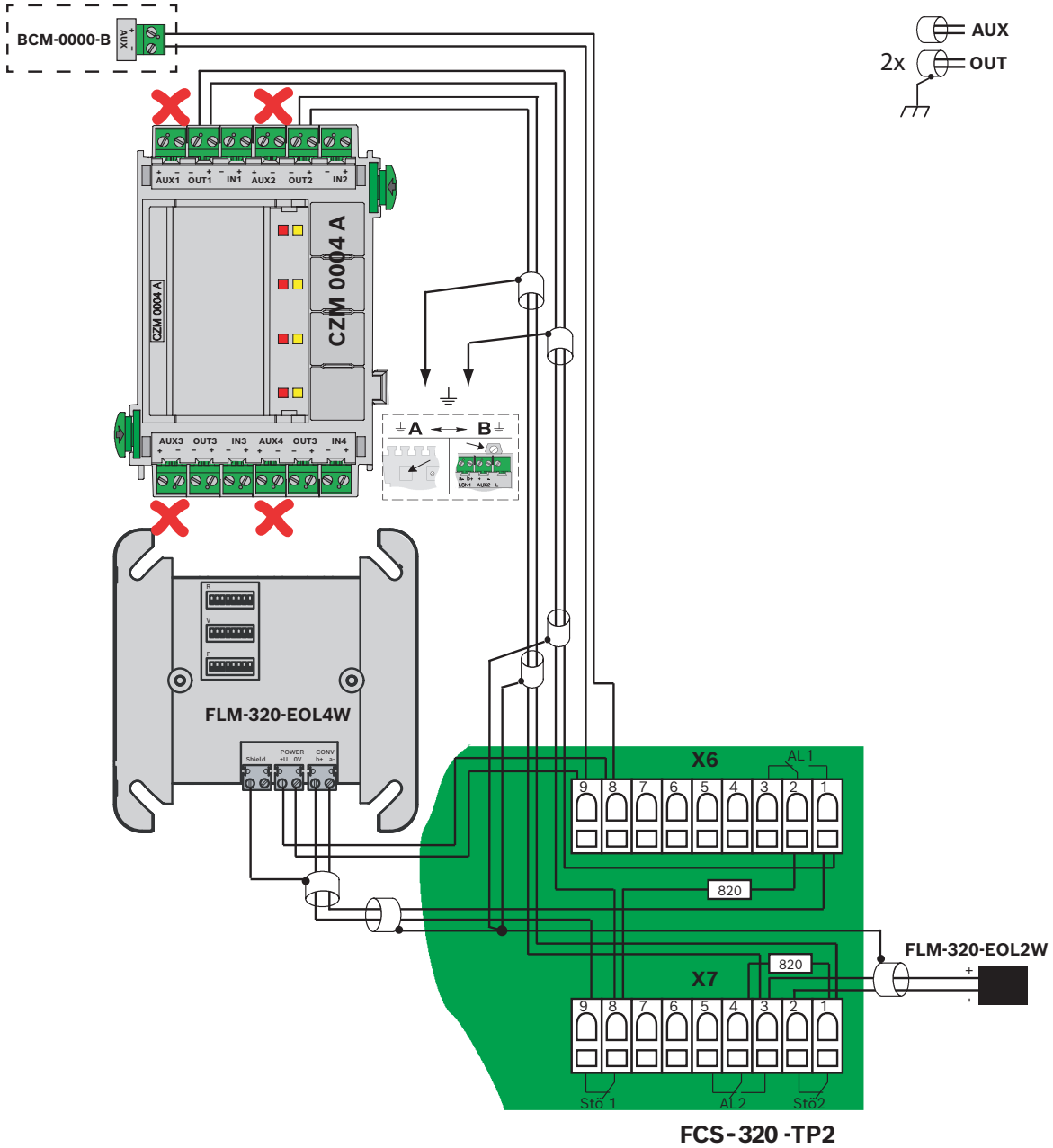




FCS-320-TP2



ELS





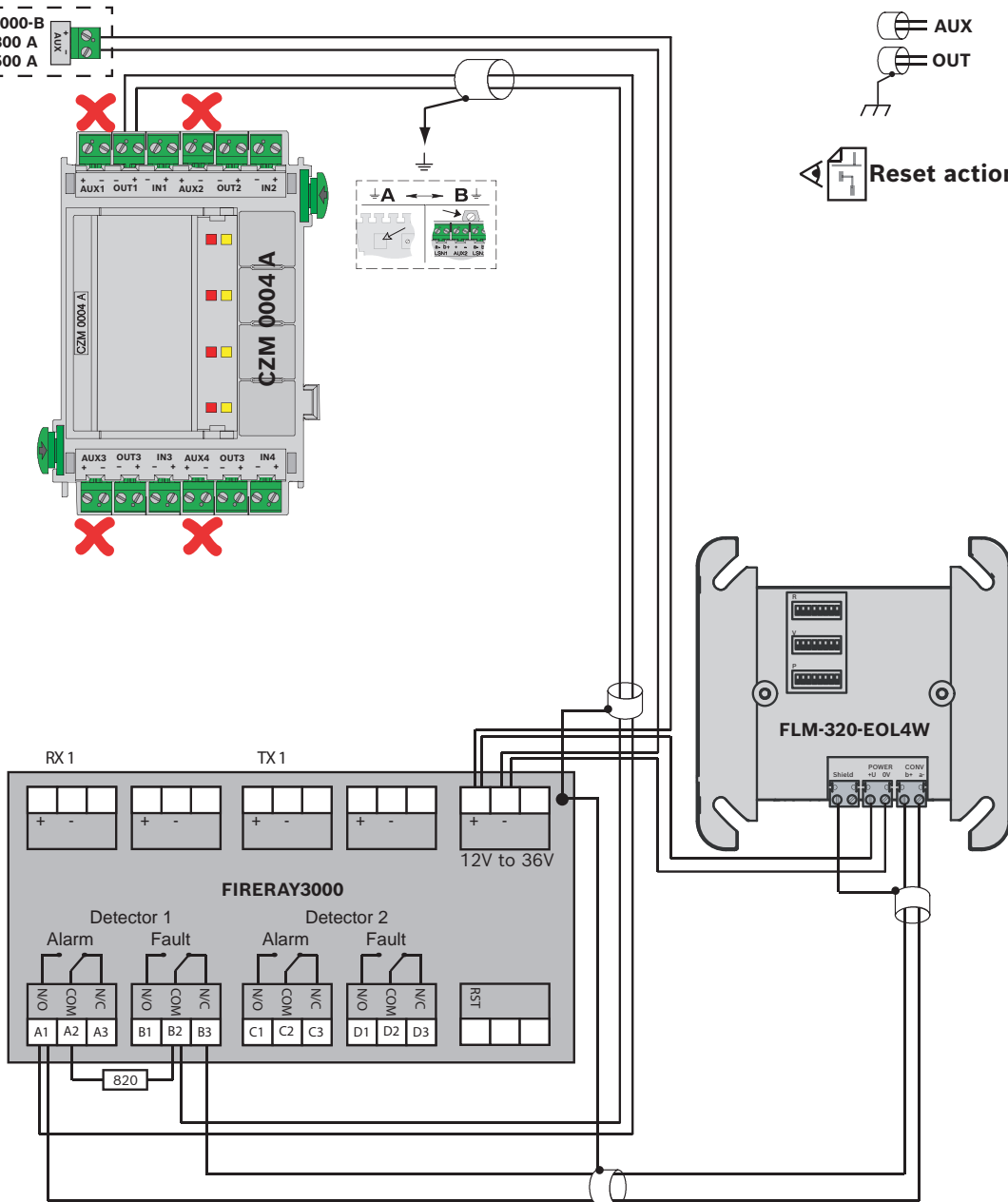
**FIRERAY3000**

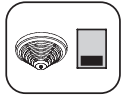
1 x



**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



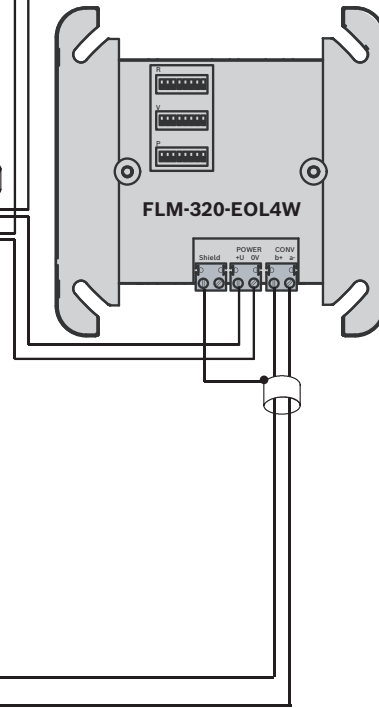
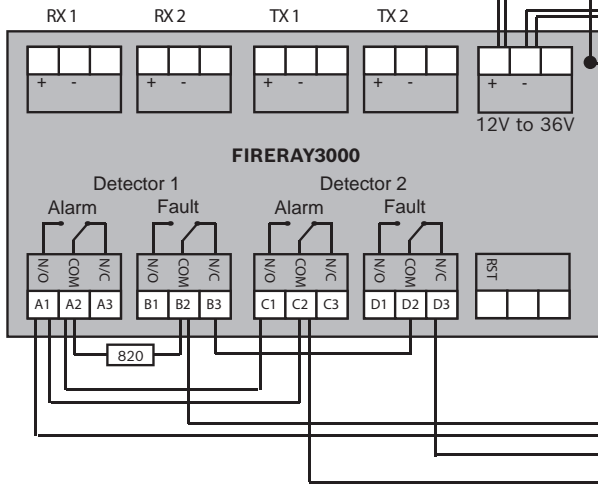
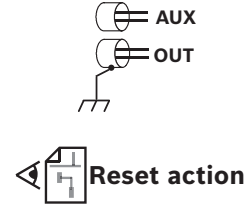
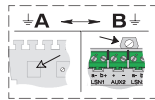
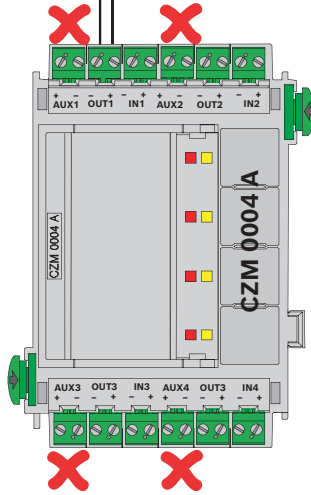


**FIRERAY3000**  
2 x **OUT1**



**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



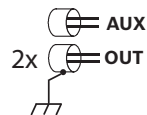
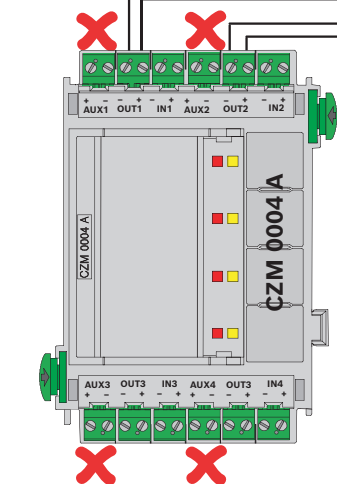


**FIRERAY3000**  
2 x **OUT1+2**

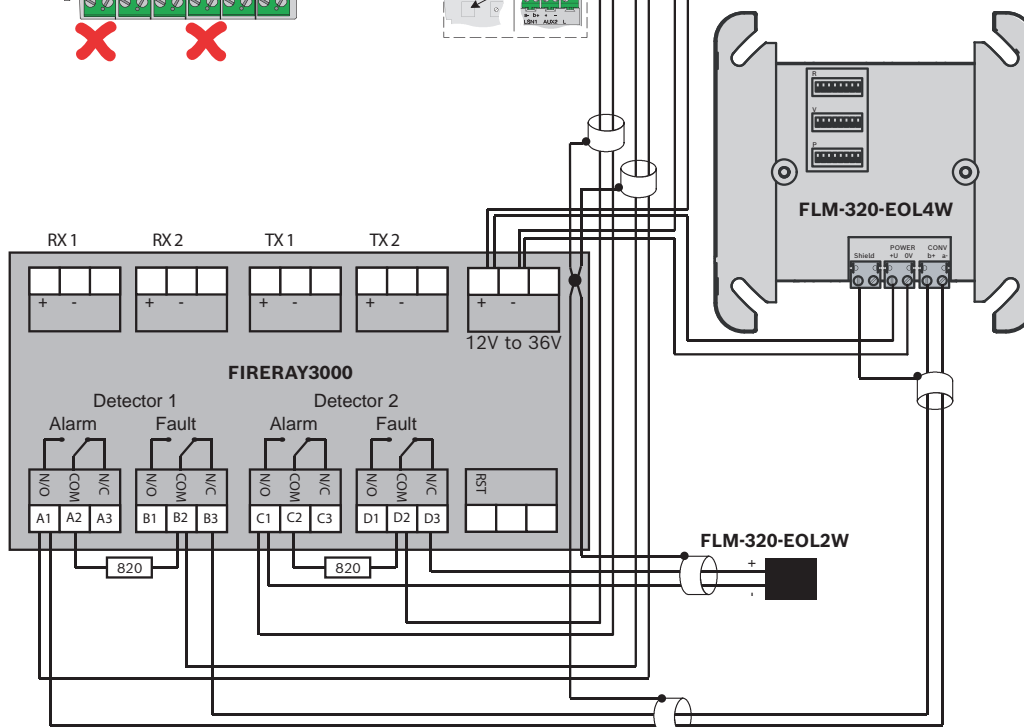
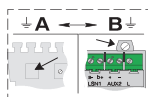


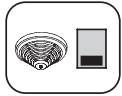
**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



**Reset action**



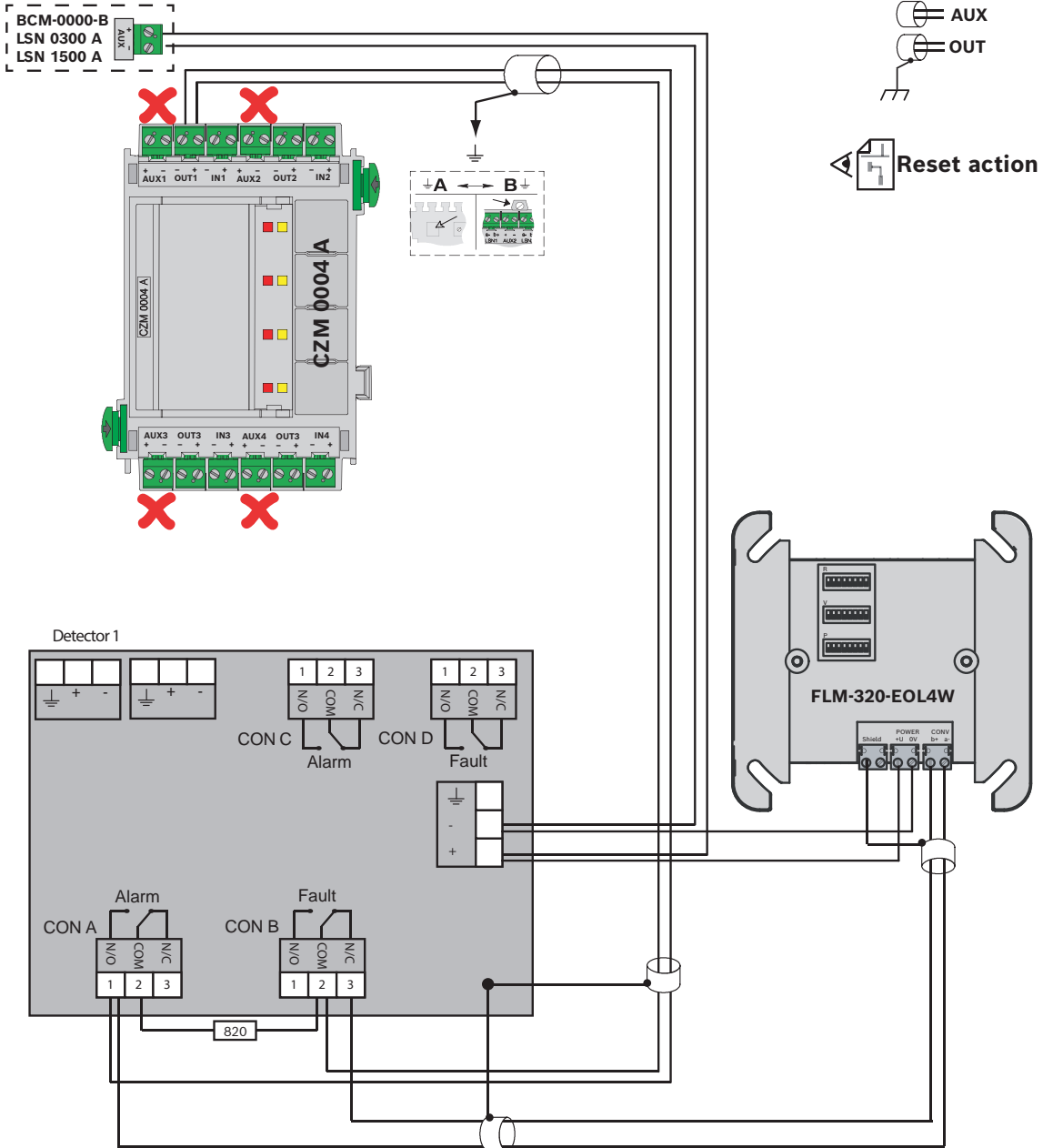


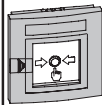
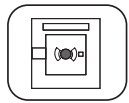
**FIRERAY5000**

1 x

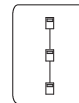


**ELS**

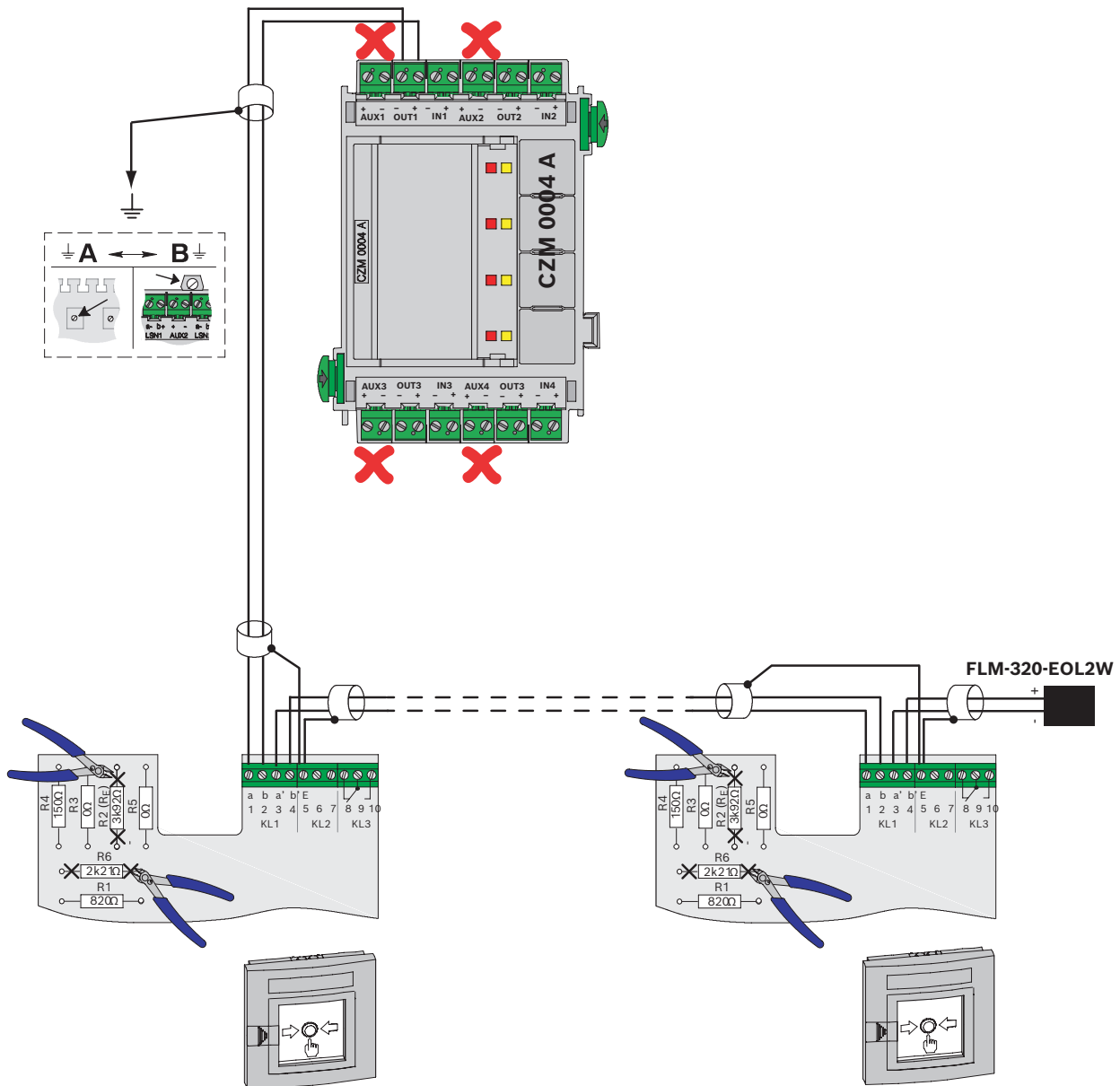


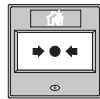
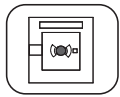


FMC-120-DKM-G-R  
 FMC-120-DKM-H-R  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B  
 FMC-120-DKM-G-Y



ELS

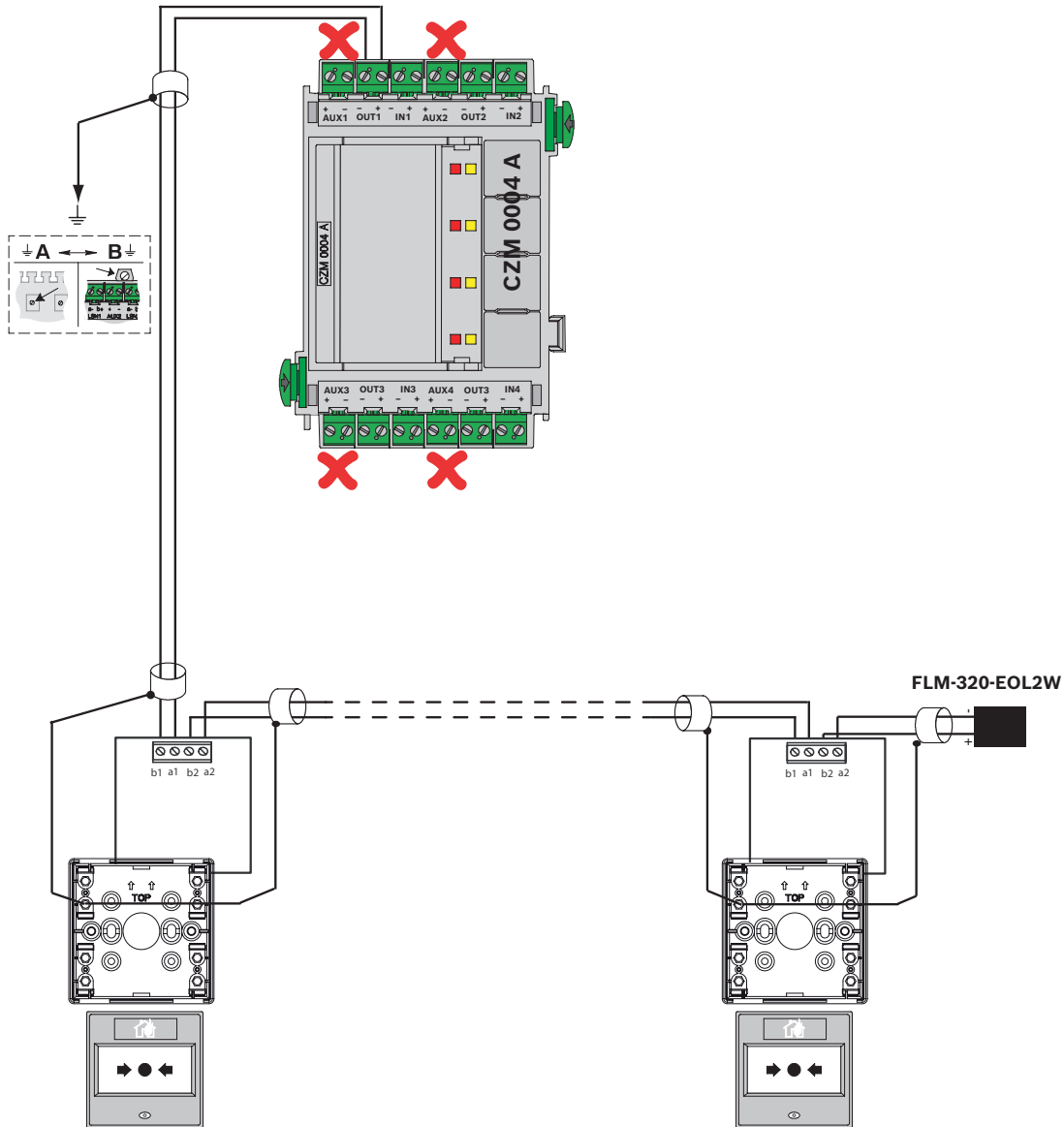




FMC-300RW-GSGBU  
 FMC-300RW-GSRBU  
 FMC-300RW-GSGRD  
 FMC-300RW-GSRRD  
 FMC-300RW-GSGYE  
 FMC-300RW-GSRYE



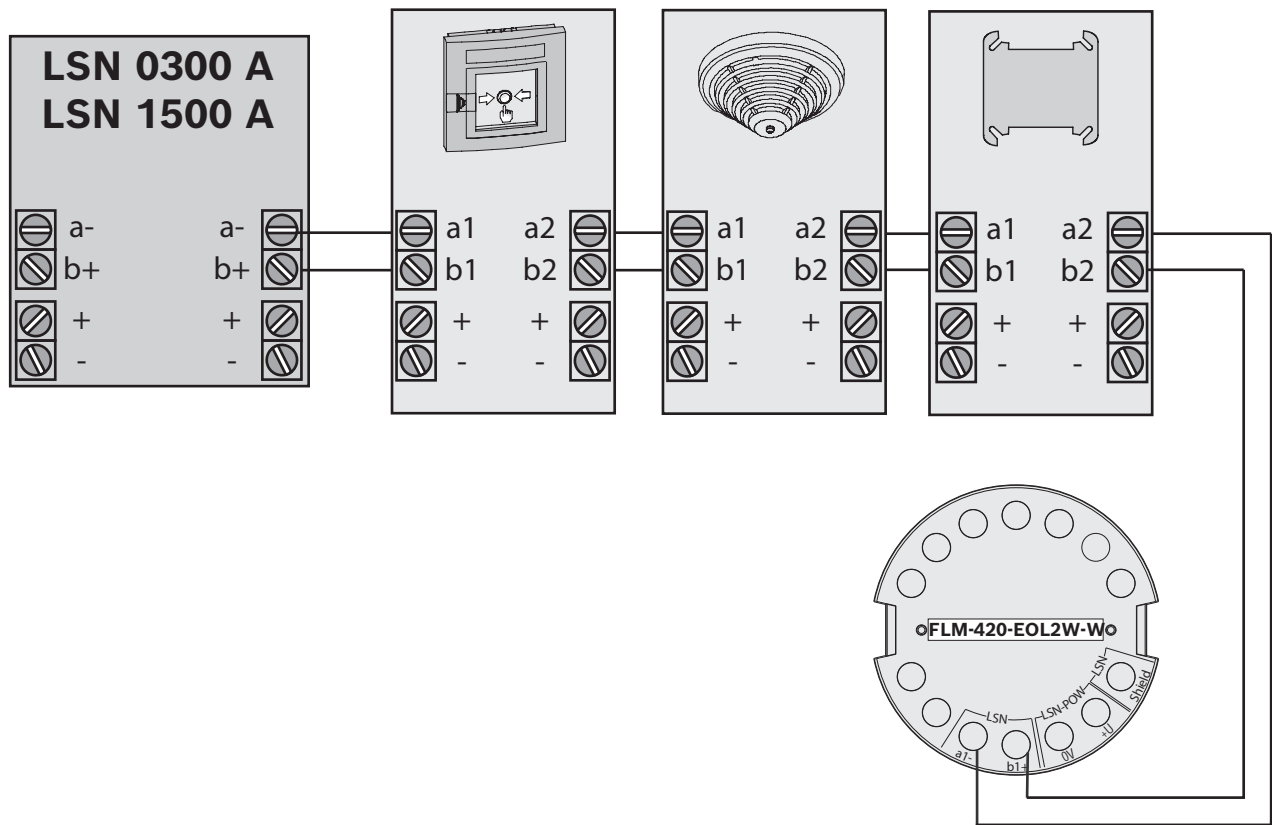
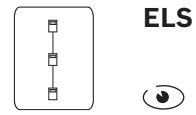
ELS

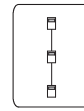


FLM-320-EOL2W

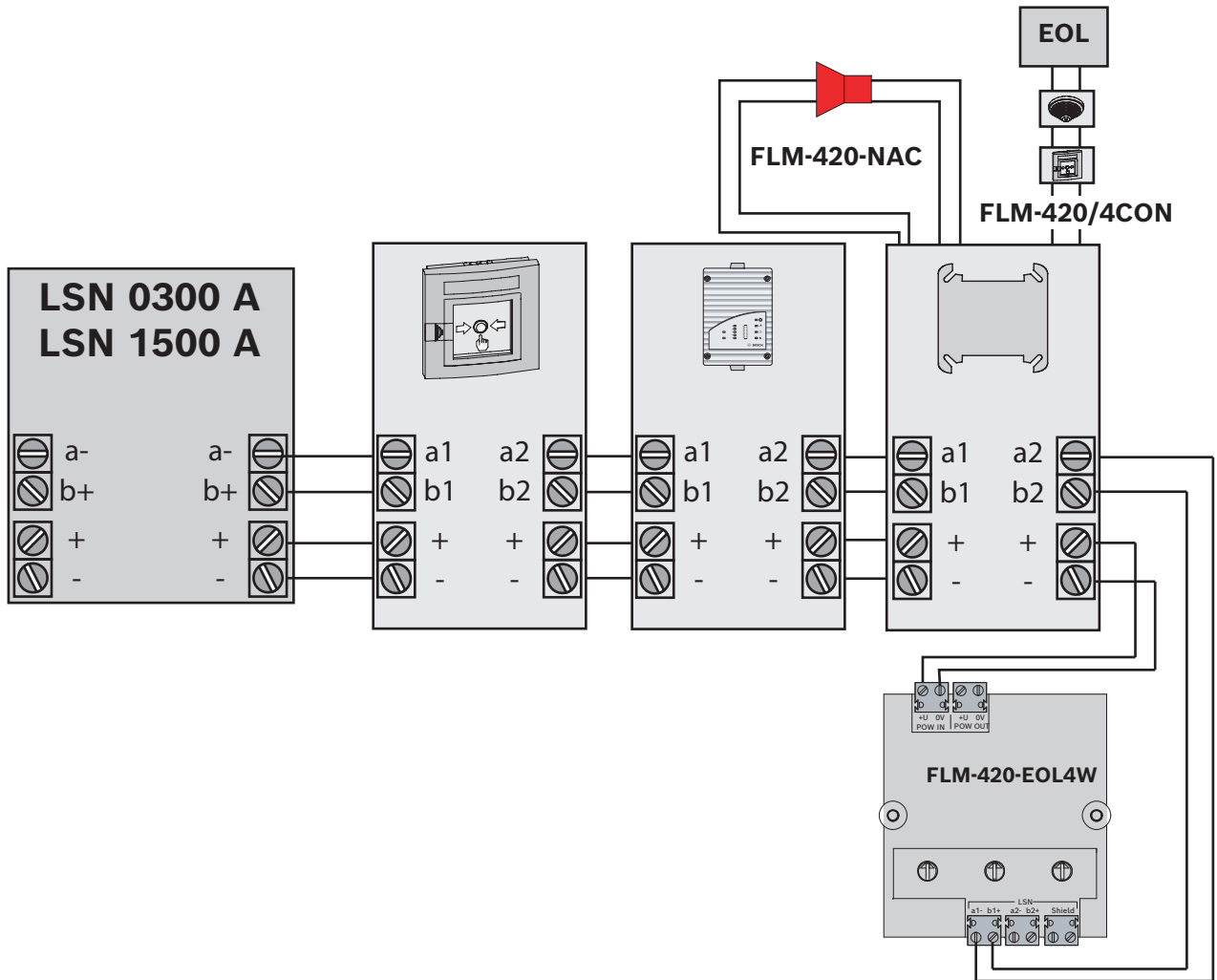


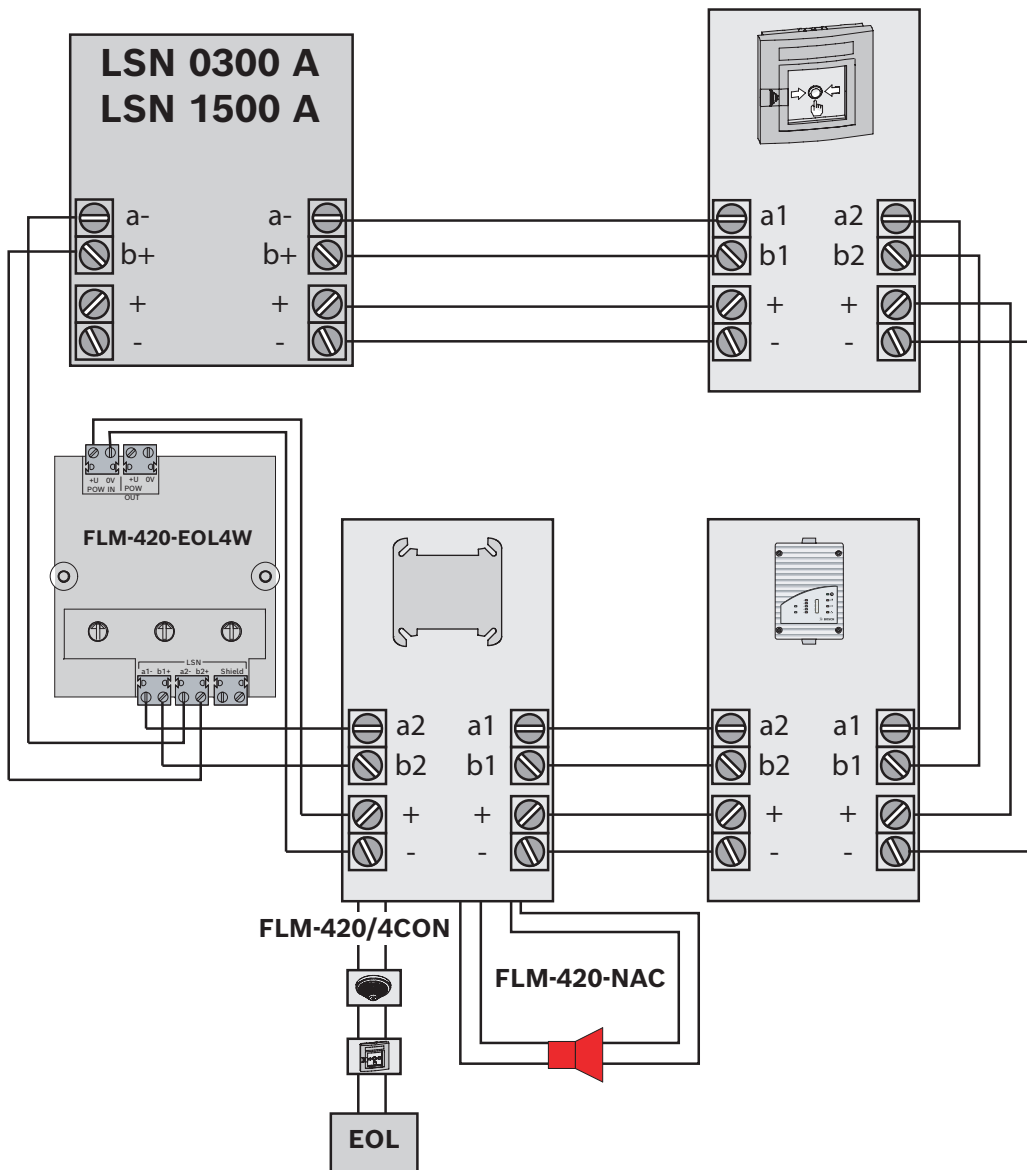
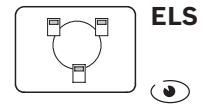
2.6.2 LSN 0300 A





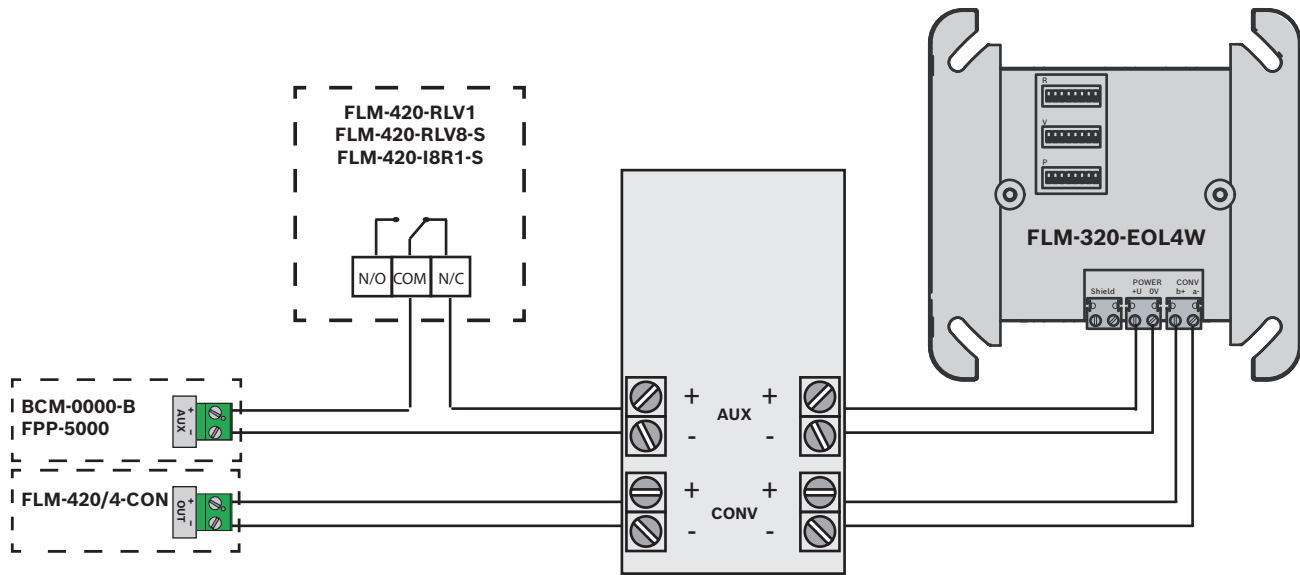
ELS

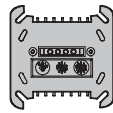
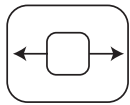




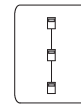
Reset action

ELS

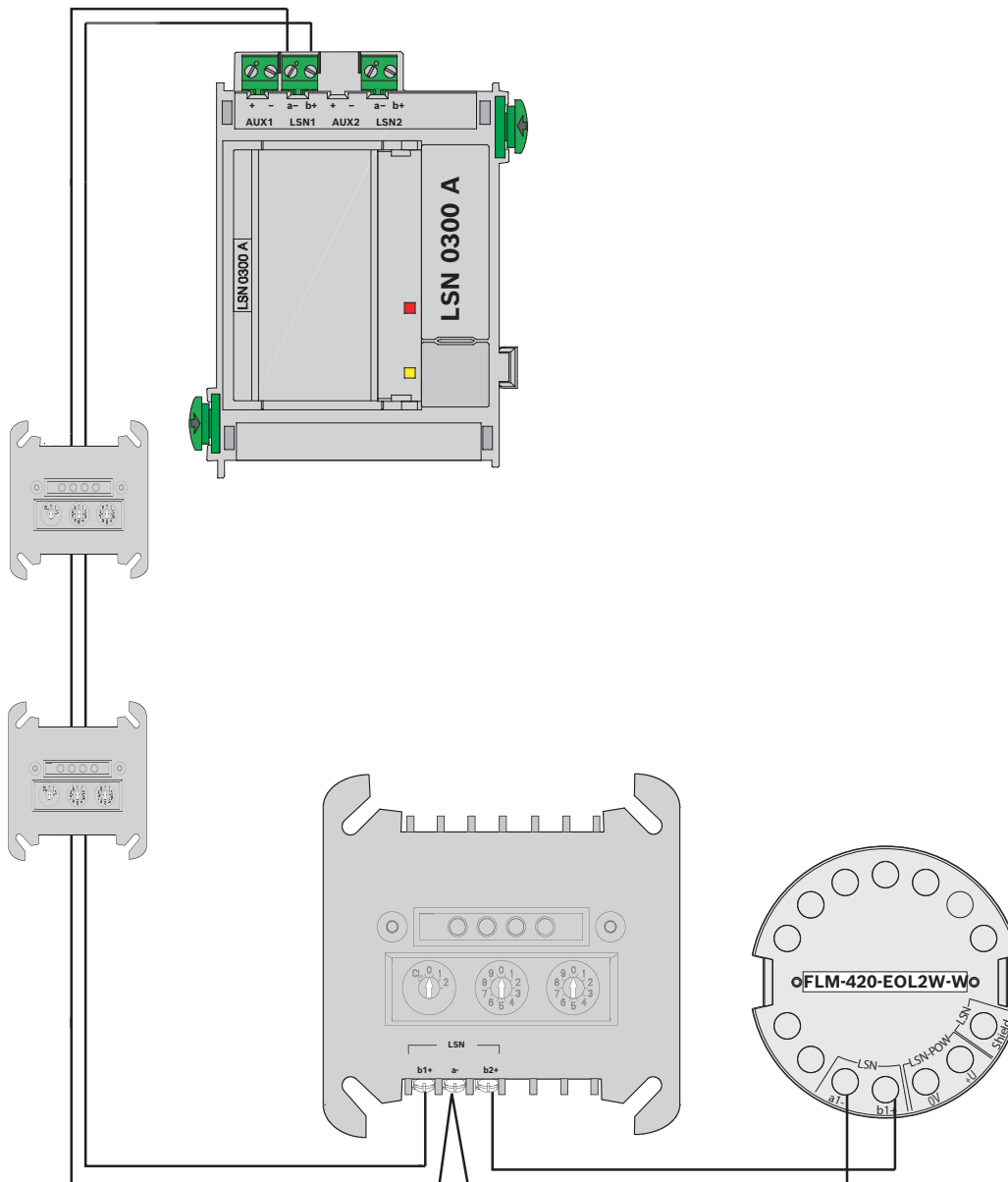


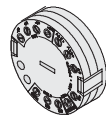
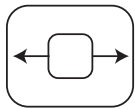


FLM-420-I2-D  
 FLM-420-O1I1-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D

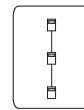


ELS

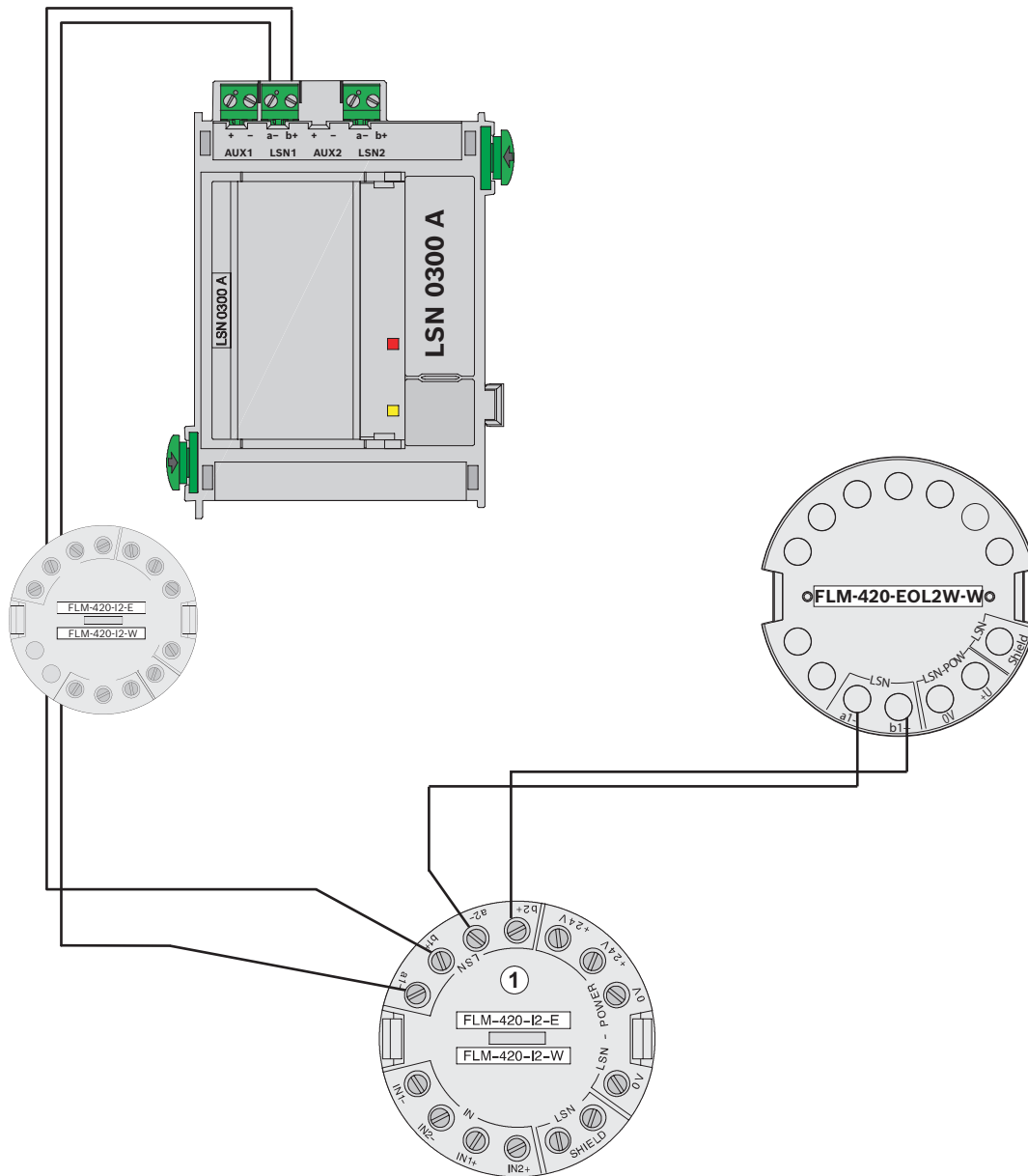


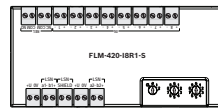
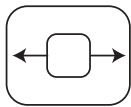


FLM-420-12-E/W

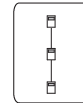


ELS

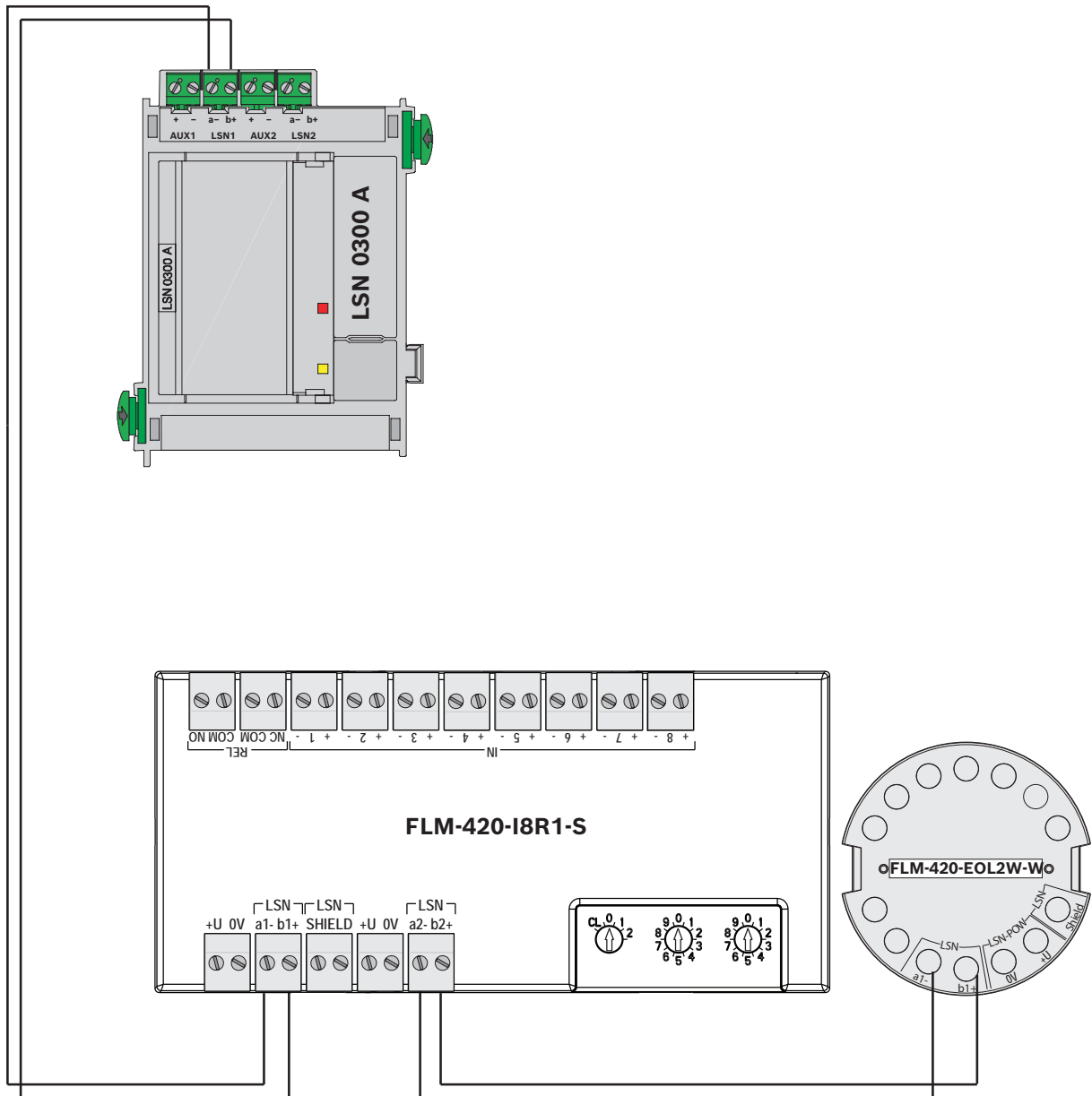


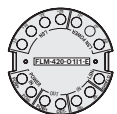
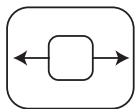


FLM-420-18R1-S

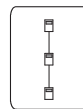


ELS

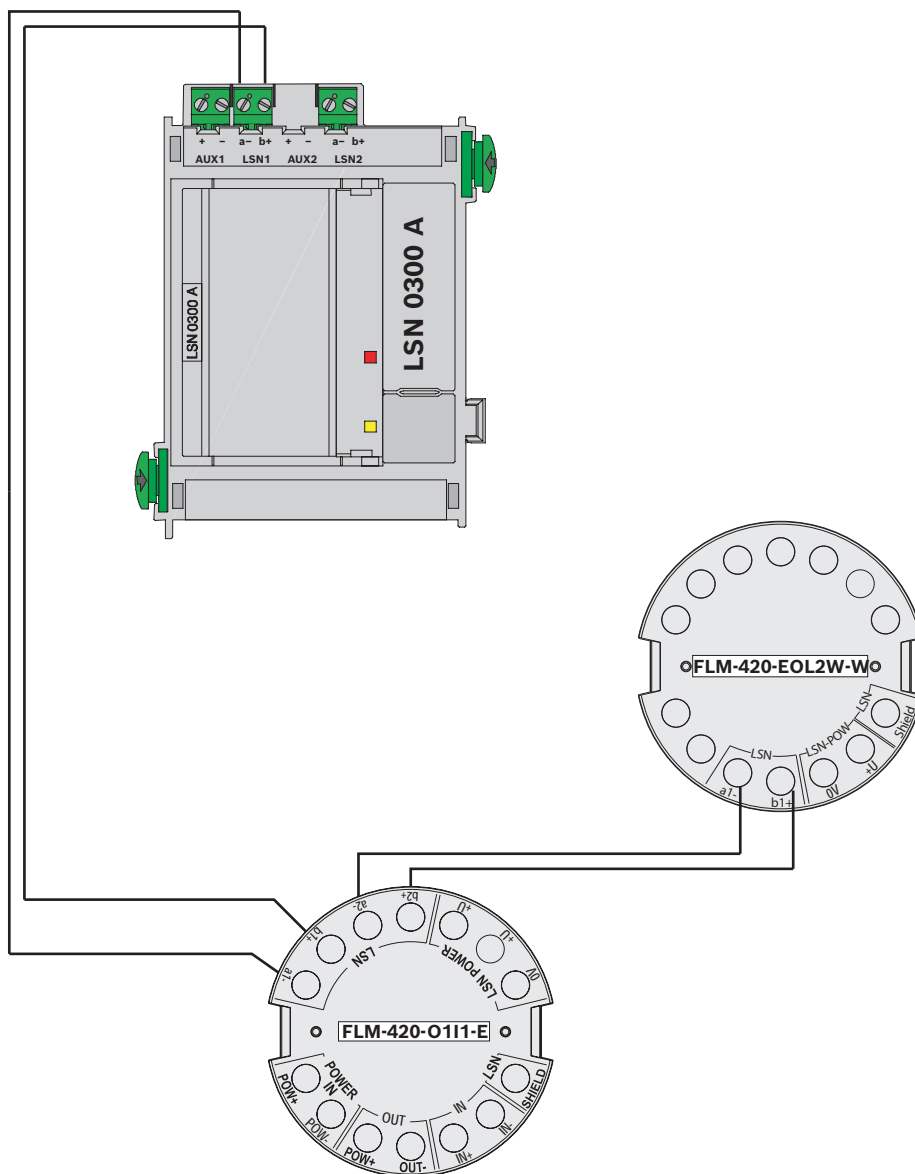




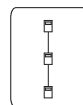
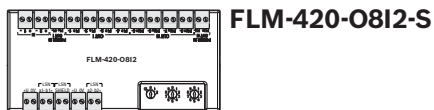
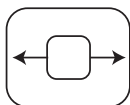
FLM-420-O111-E



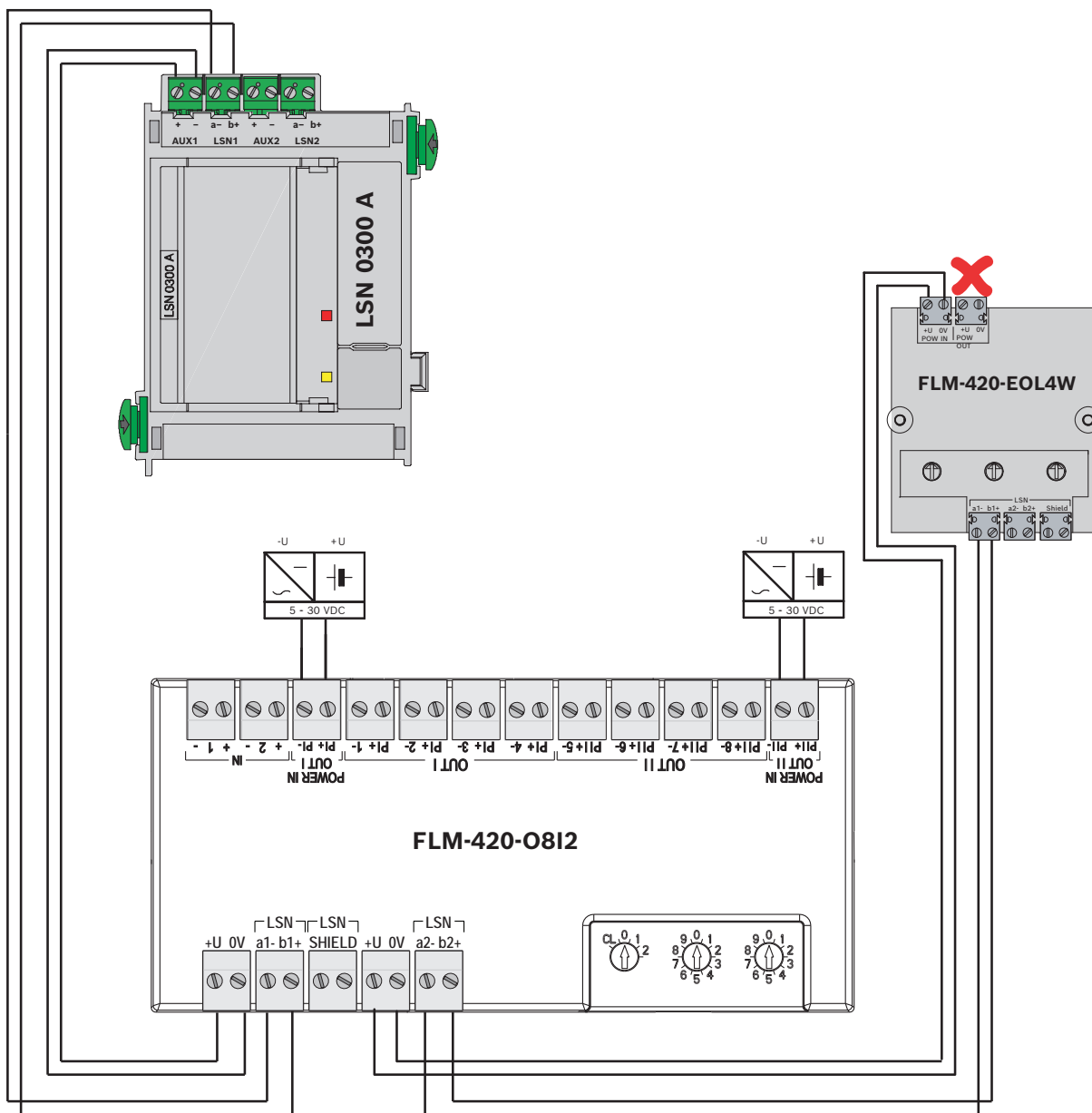
ELS

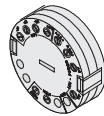
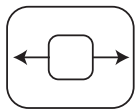




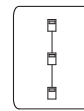


ELS

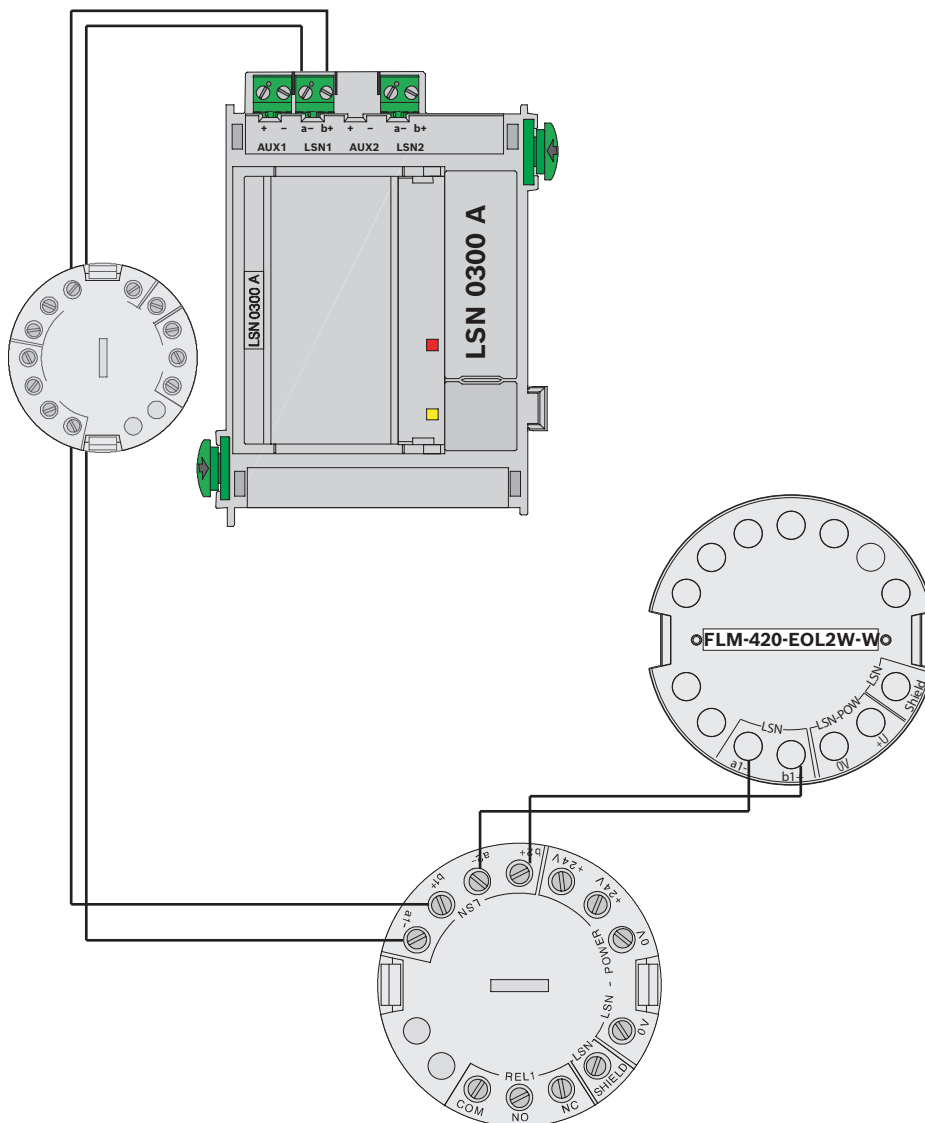


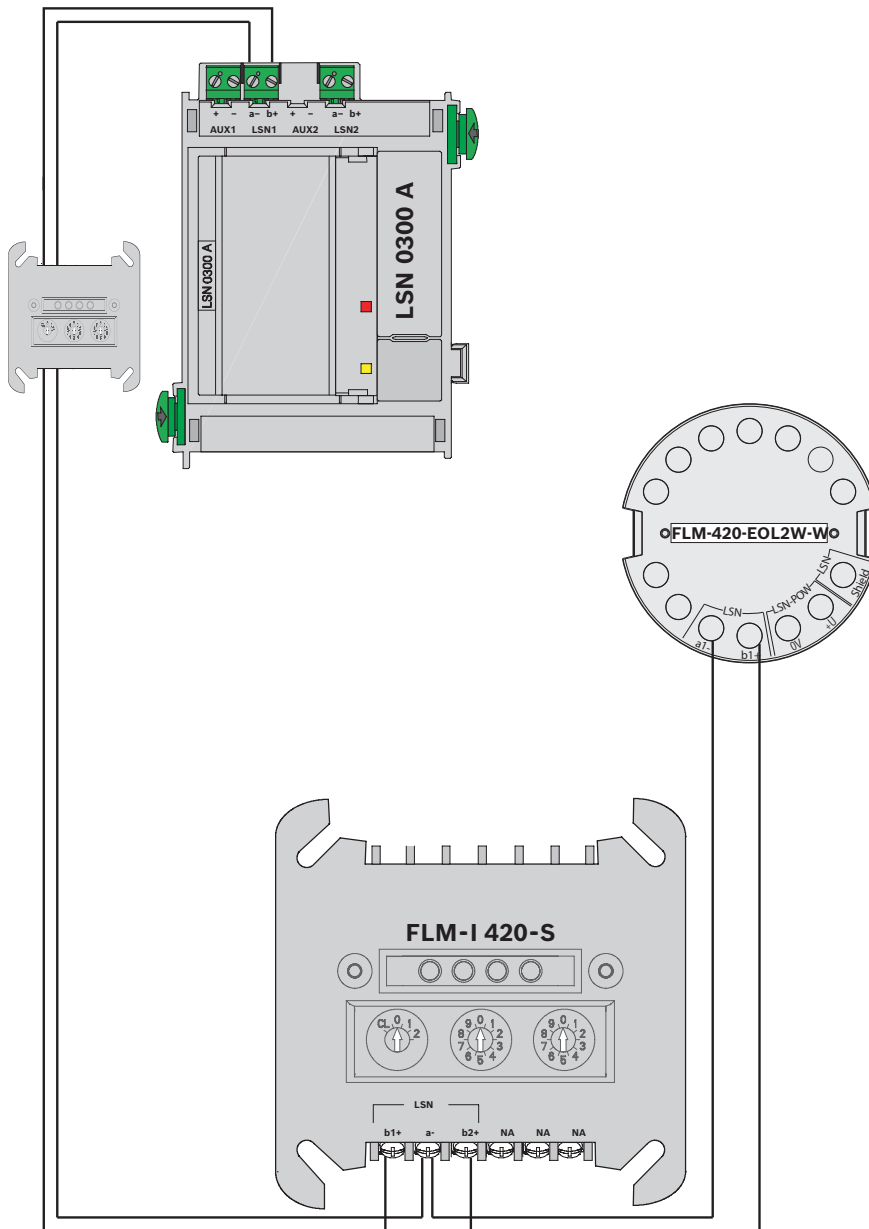
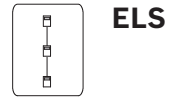
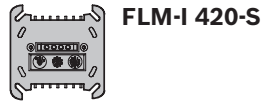
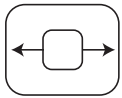


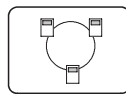
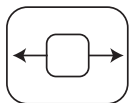
**FLM-420-I2-E/-W**  
**FLM-420-RLV1-E**



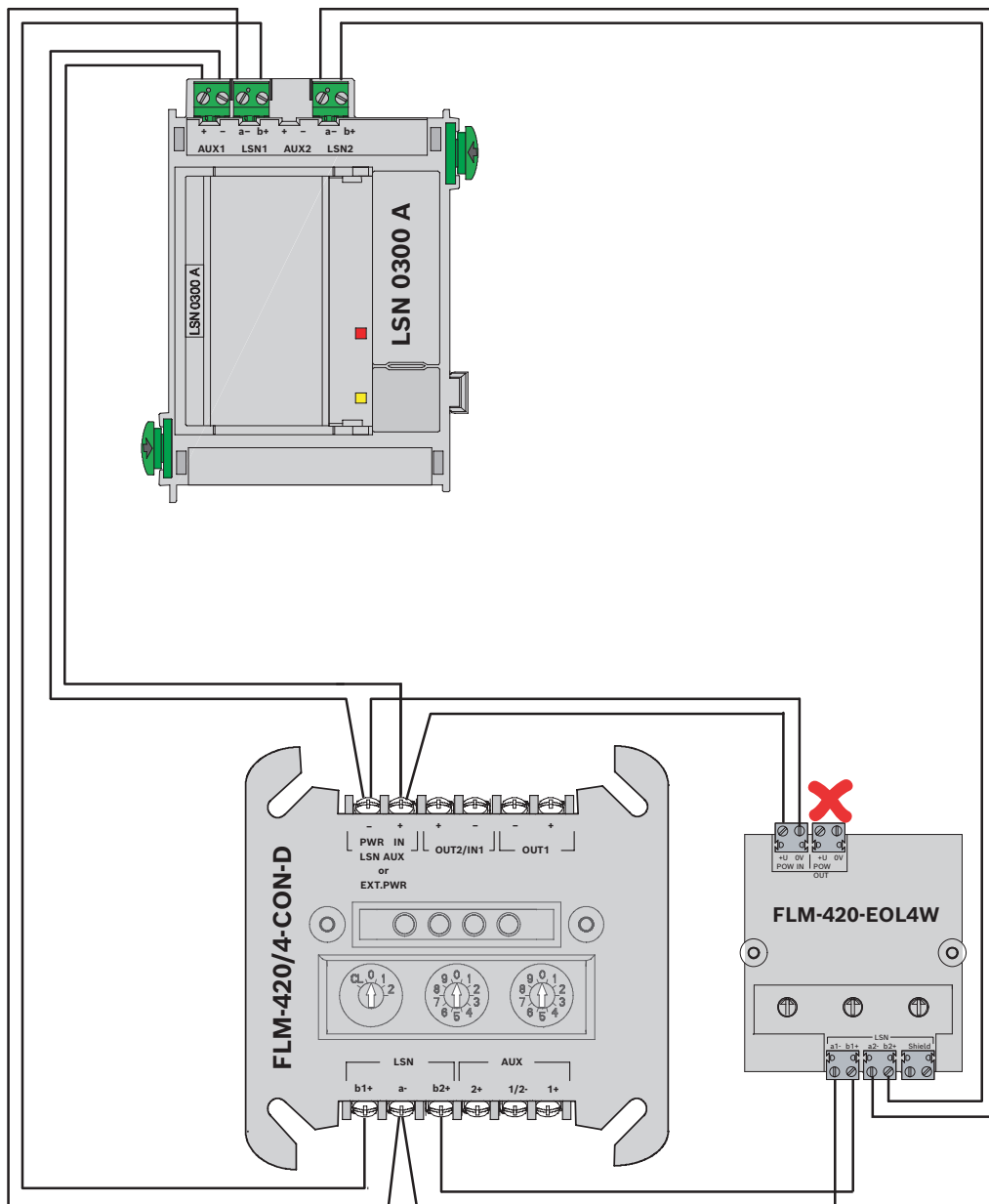
**ELS**

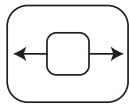




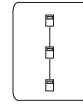


ELS

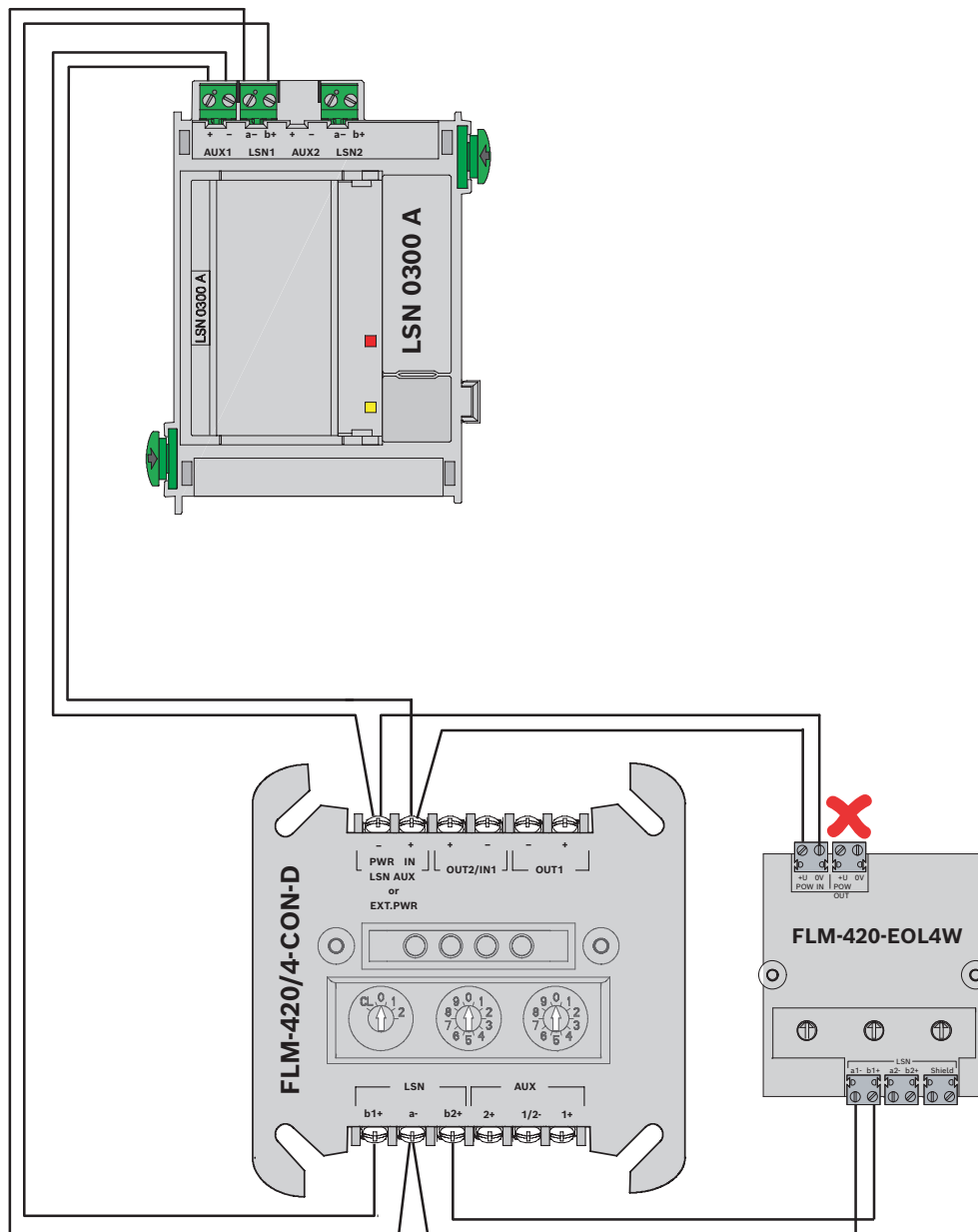


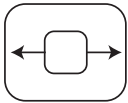


**FLM-420/  
4-CON-D**

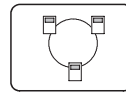


**ELS**

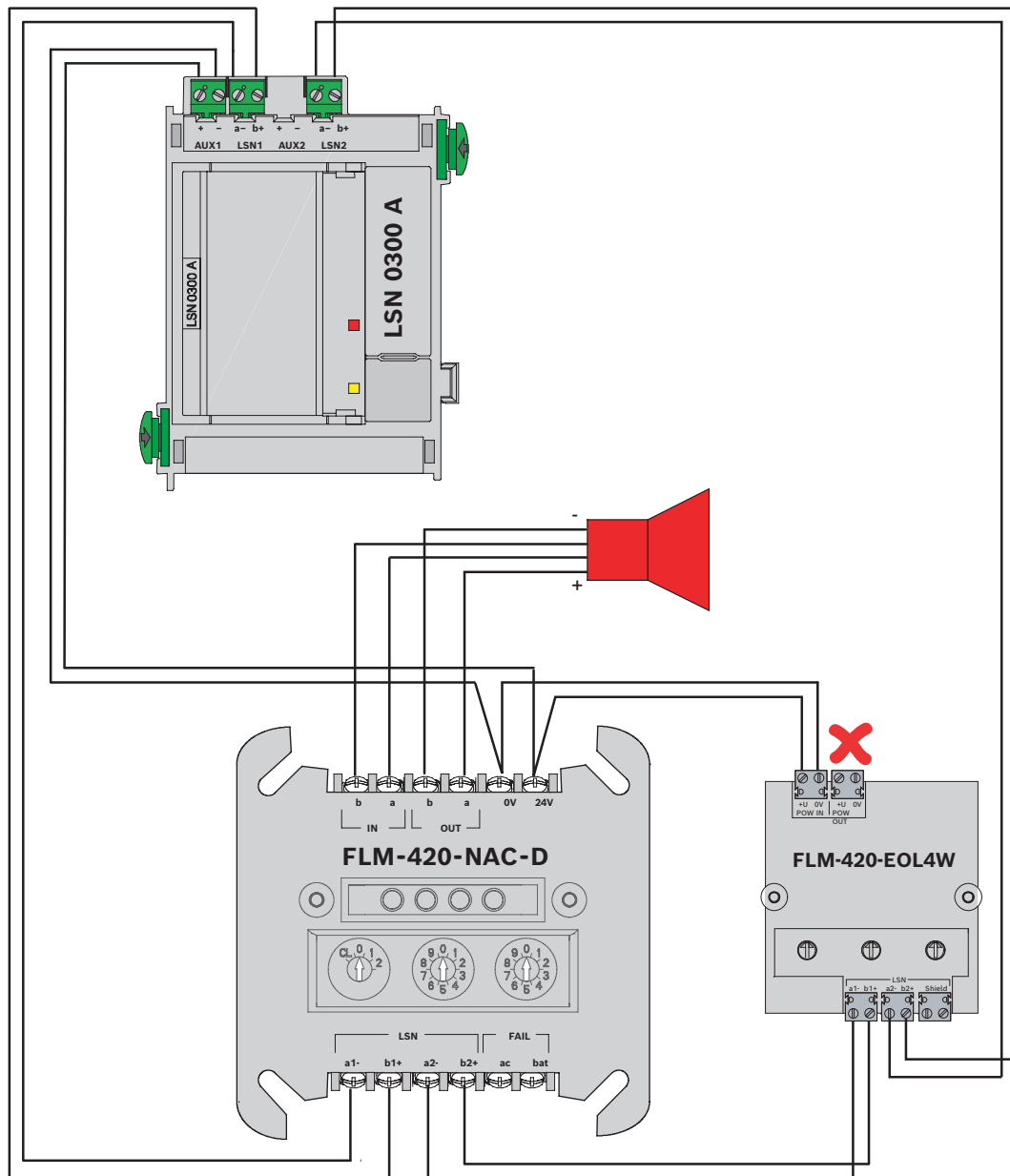


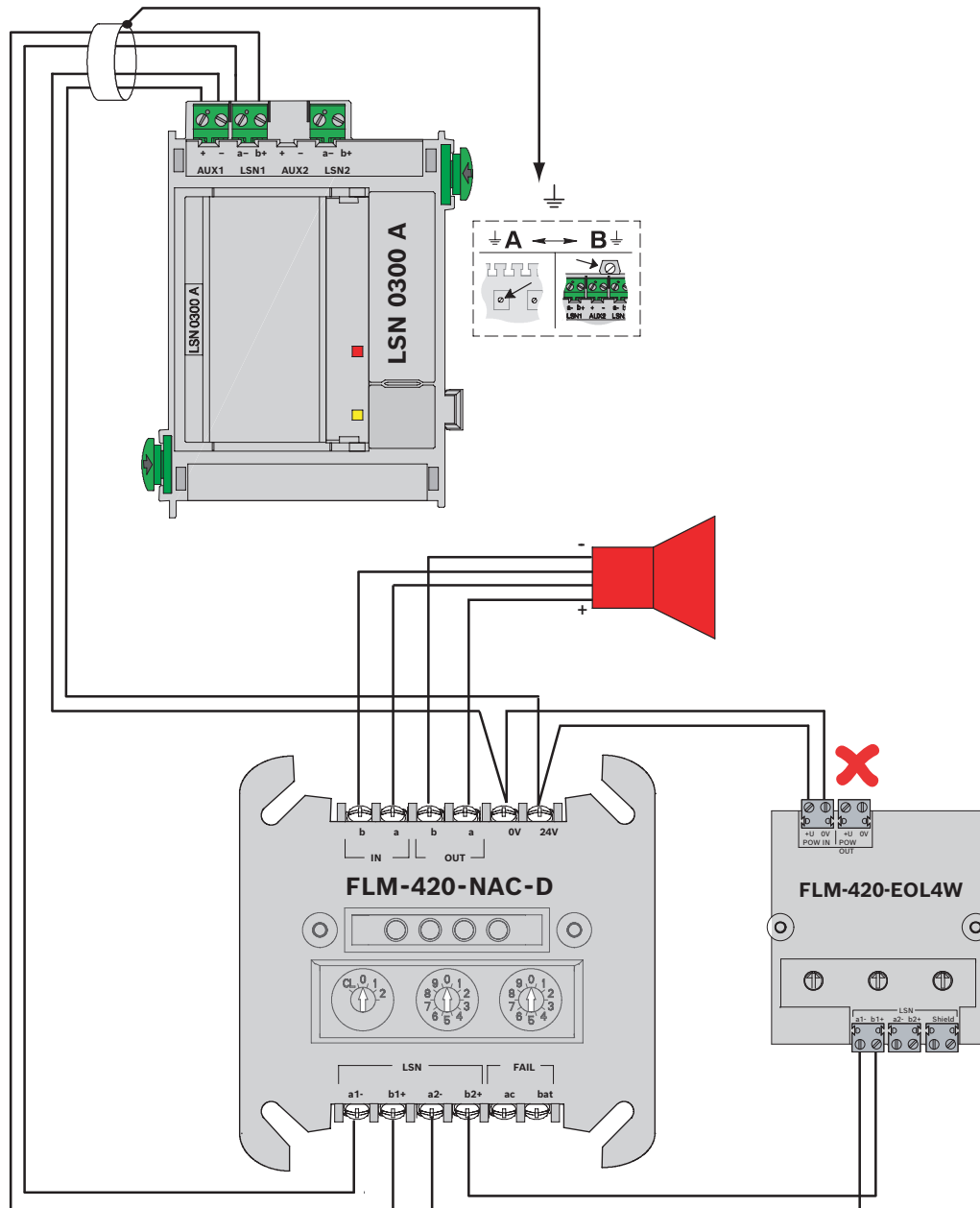
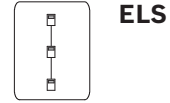
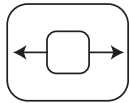


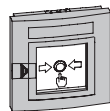
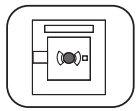
FLM-420-NAC-D/S



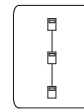
ELS  
EN 54-2



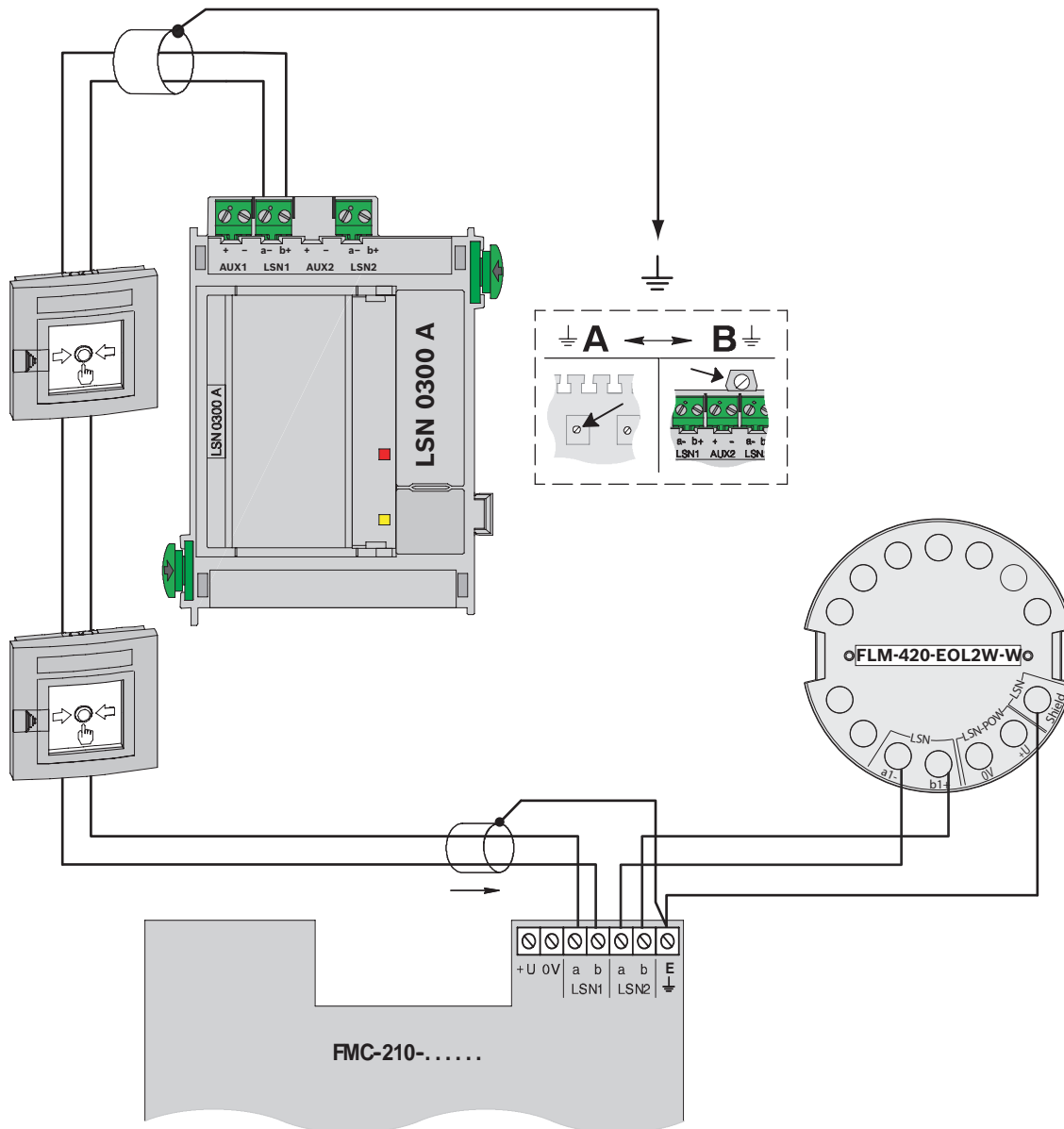




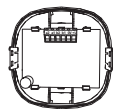
FMC-210...



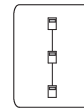
ELS



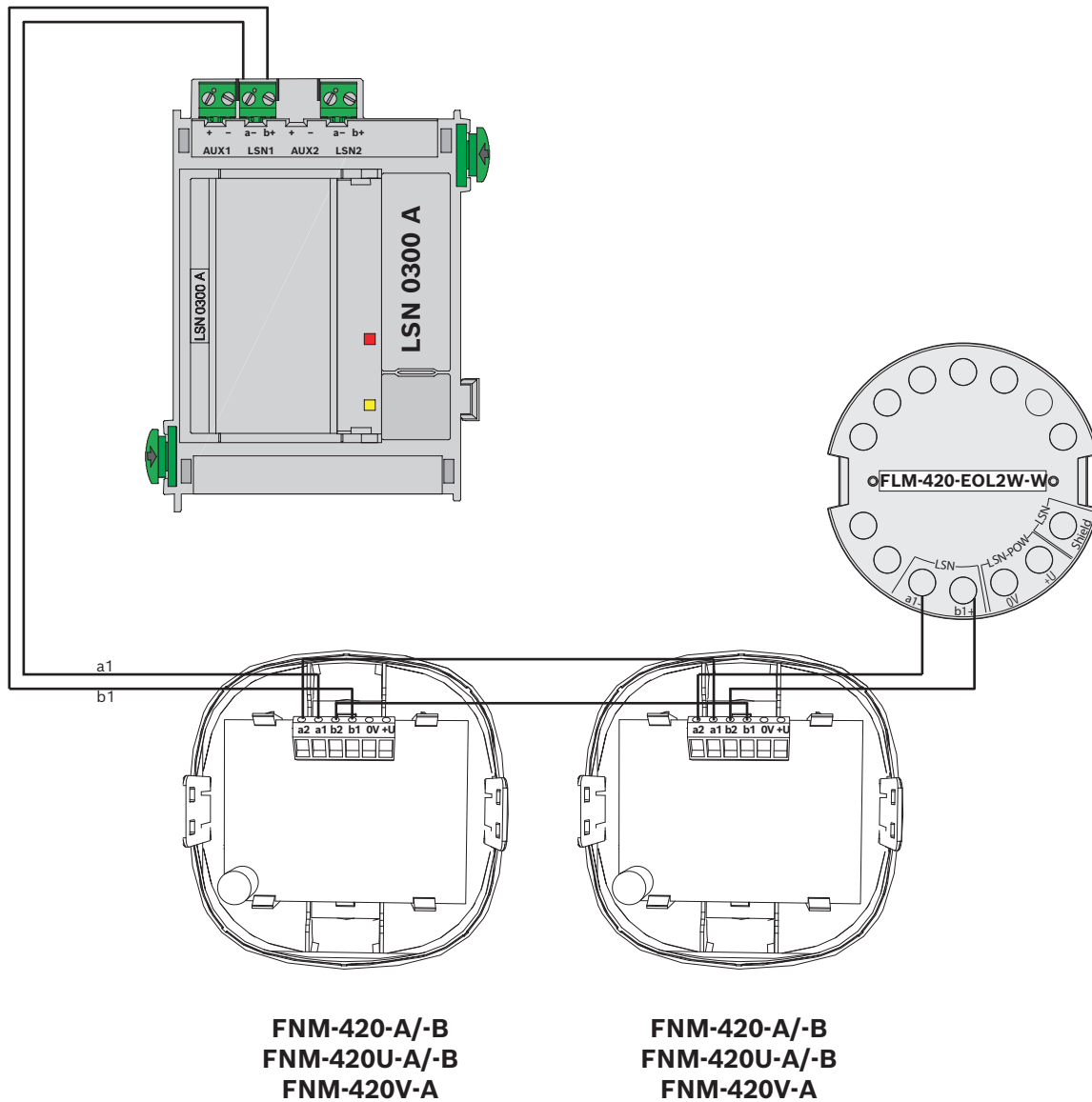




**FNM-420-A /-B**  
**FNM-420U-A /-B**  
**FNM-420V-A**



**ELS**

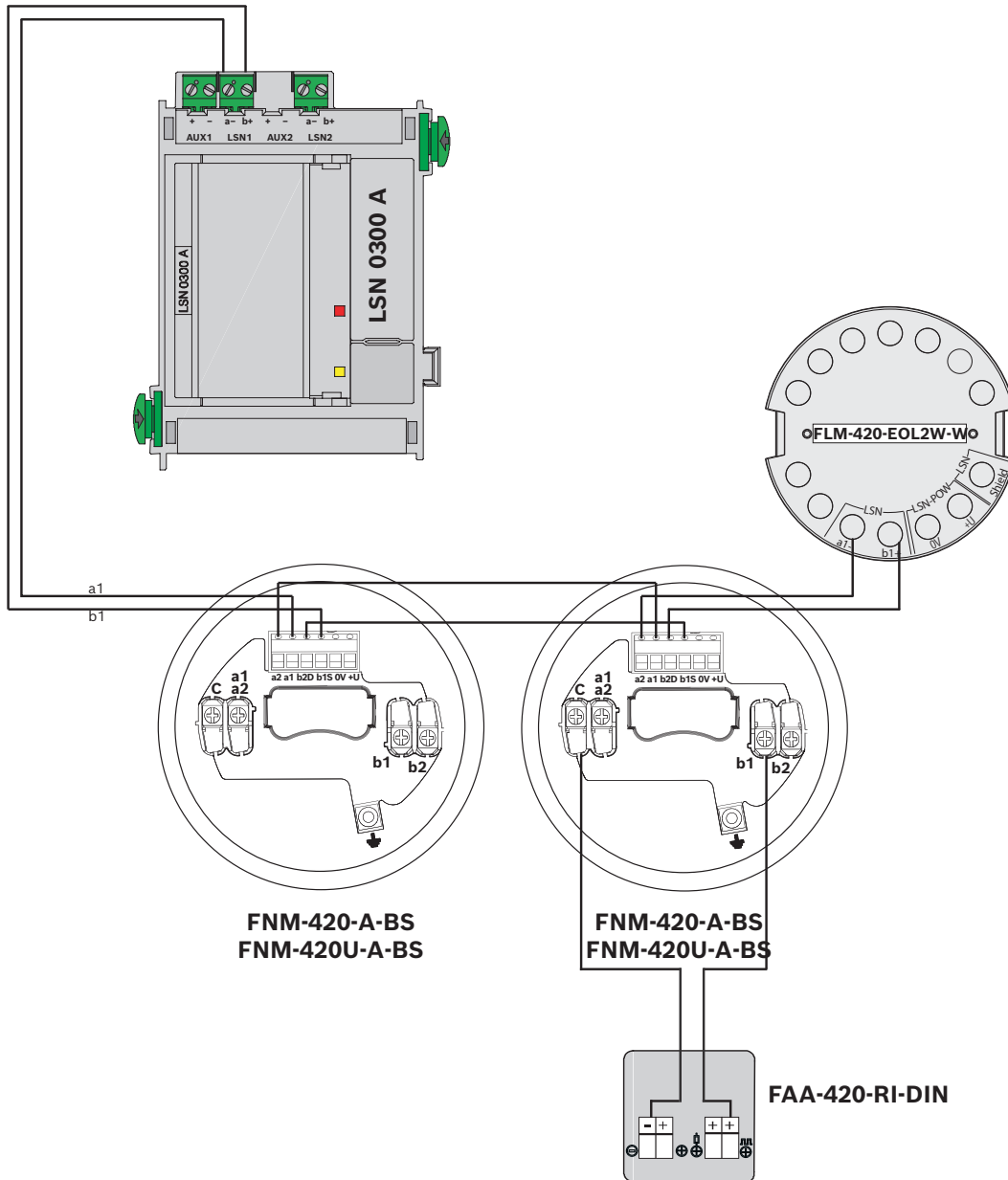




**FNM-420-A-BS**  
**FNM-420U-A-BS**



**ELS**

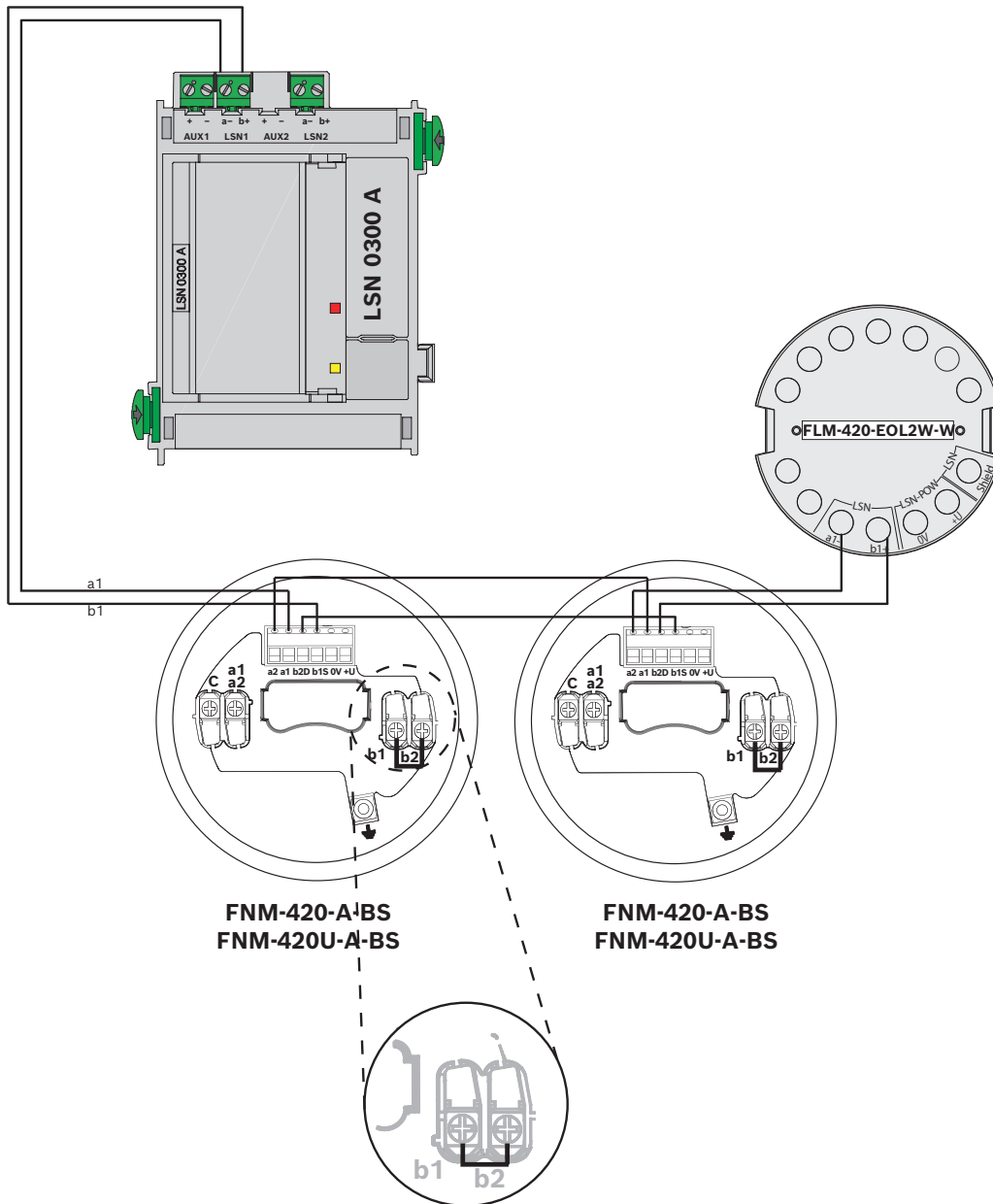


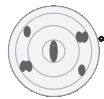


**FNM-420-A-BS**  
**FNM-420U-A-BS**



**ELS**

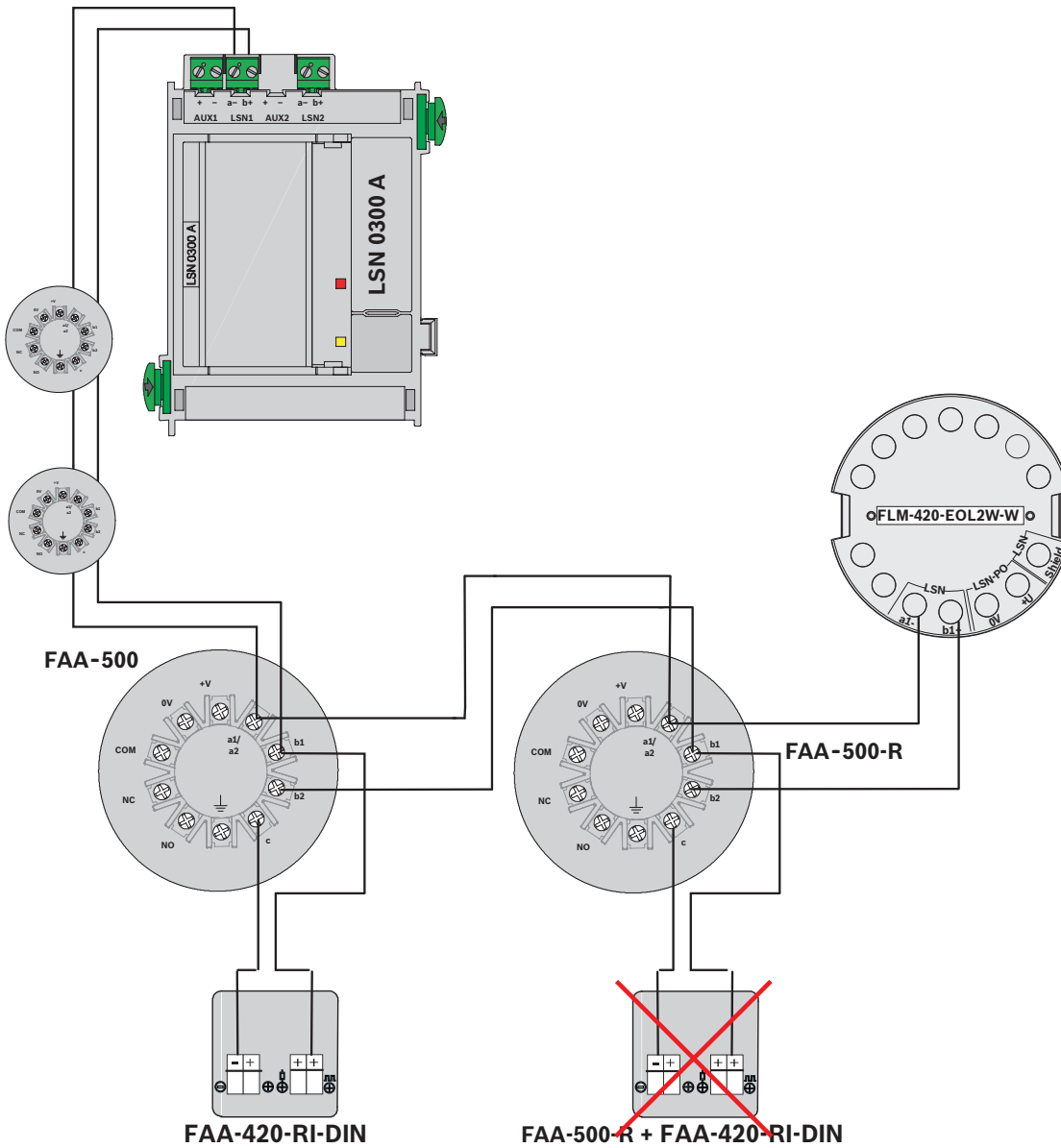


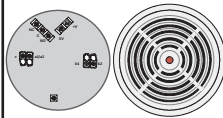


FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P

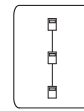


ELS

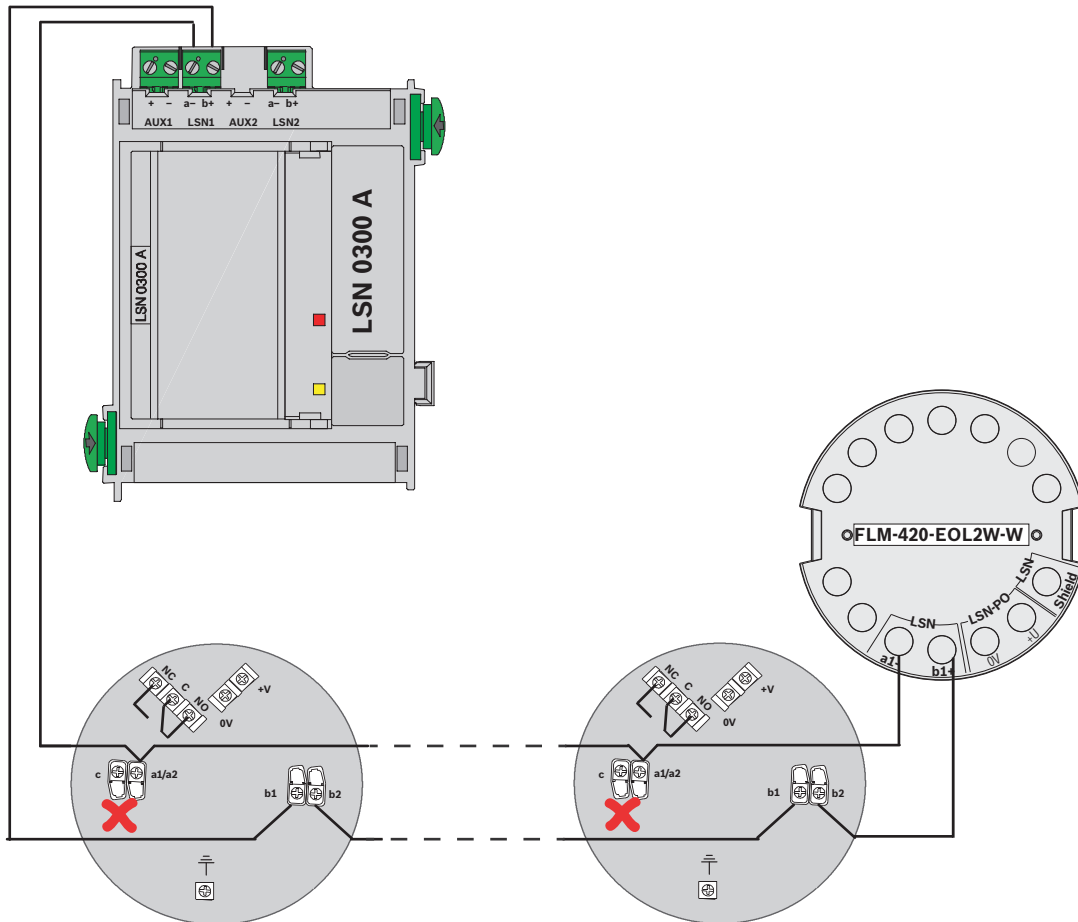


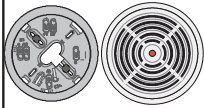


**FAA-MSR-420**  
**FAP-425-O, FAP-425-O-R**  
**FAP-425-OT, FAP-425-OT-R**  
**FAP-425-T-R**  
**FAP-425-DO-R, FAP-425-DOT-R**  
**FAP-425-DOTC-R, FAP-425-DOTCO-R**



**ELS**

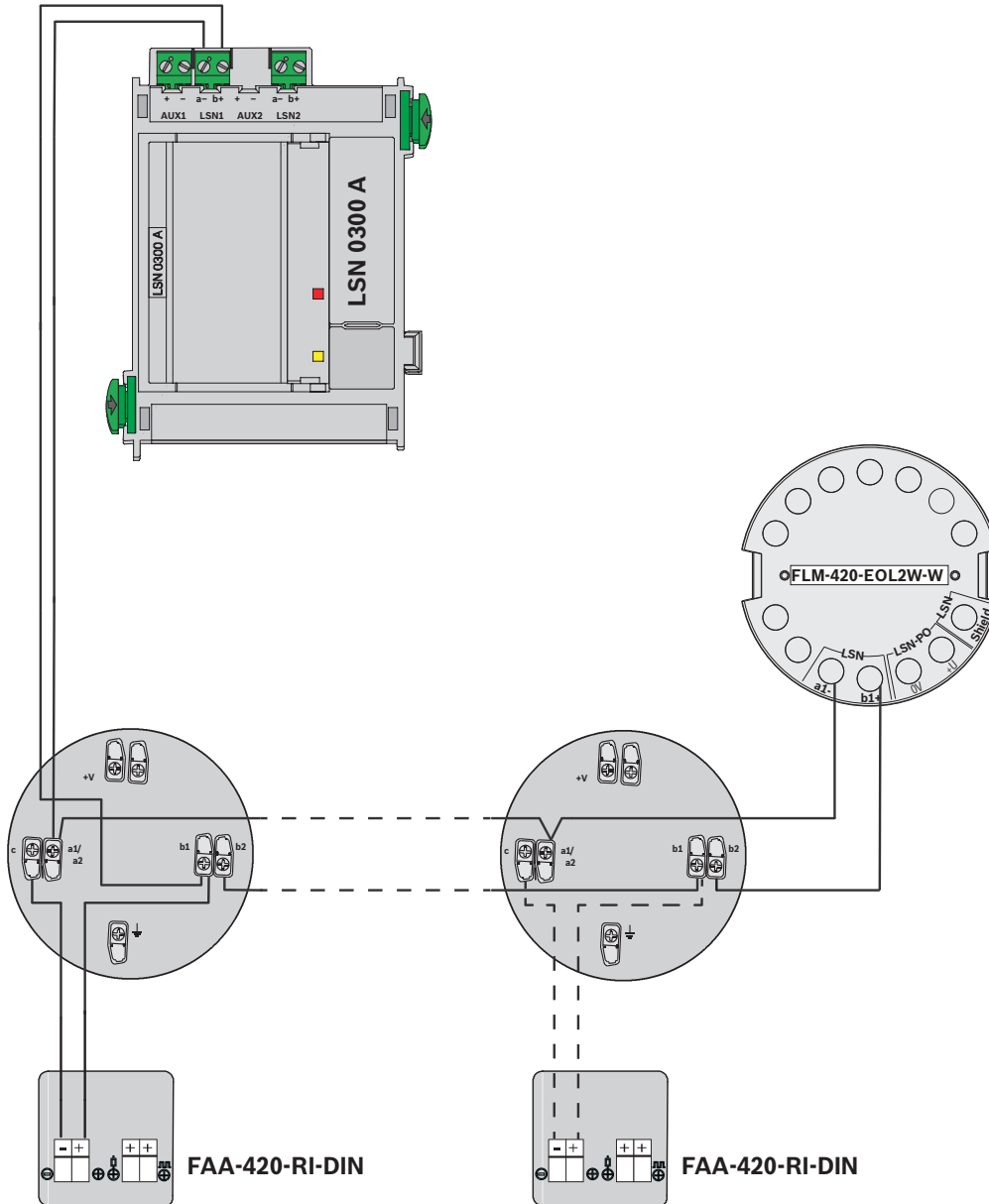


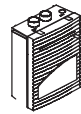


MS 400, MS 400 B  
 FAP-425-O, FAP-425-O-R  
 FAP-425-OT, FAP-425-OT-R  
 FAP-425-T-R  
 FAP-425-DO-R, FAP-425-DOT-R  
 FAP-425-DOTC-R, FAP-425-DOTCO-R

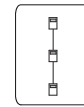


ELS

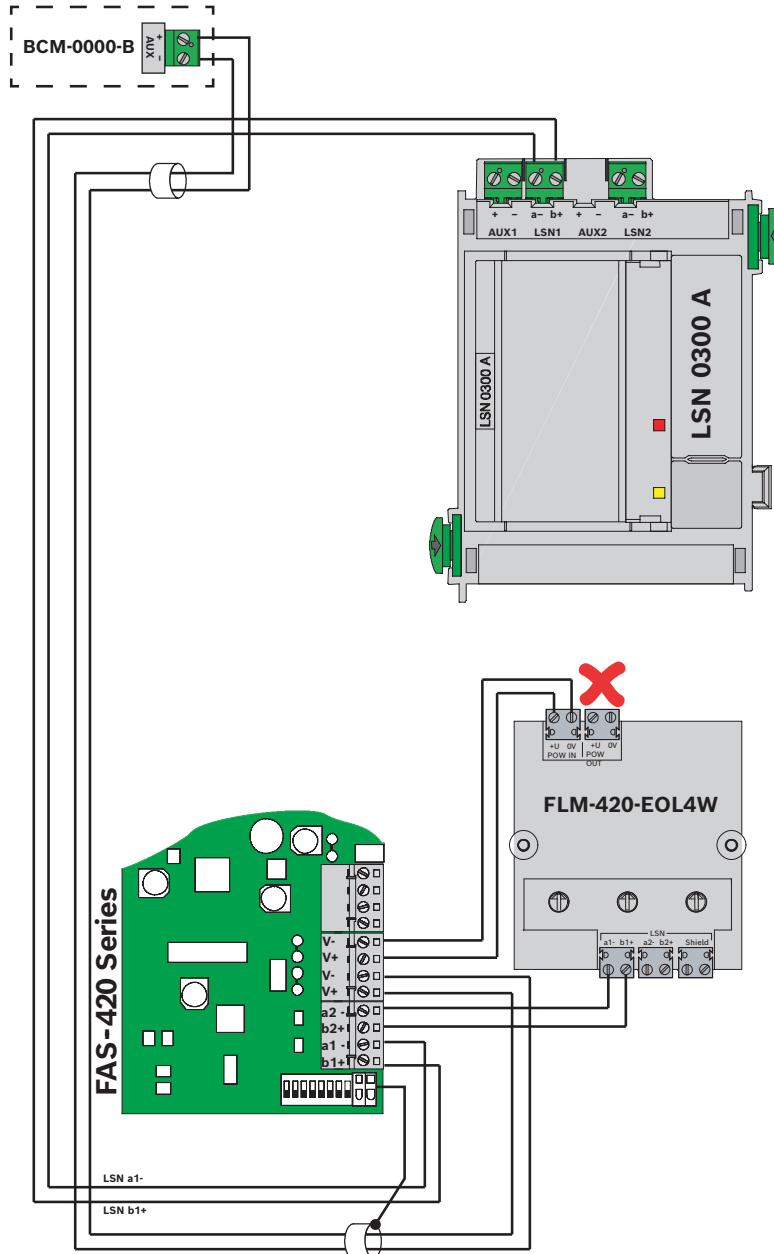


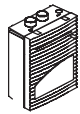


FAS-420 Series

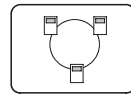


ELS

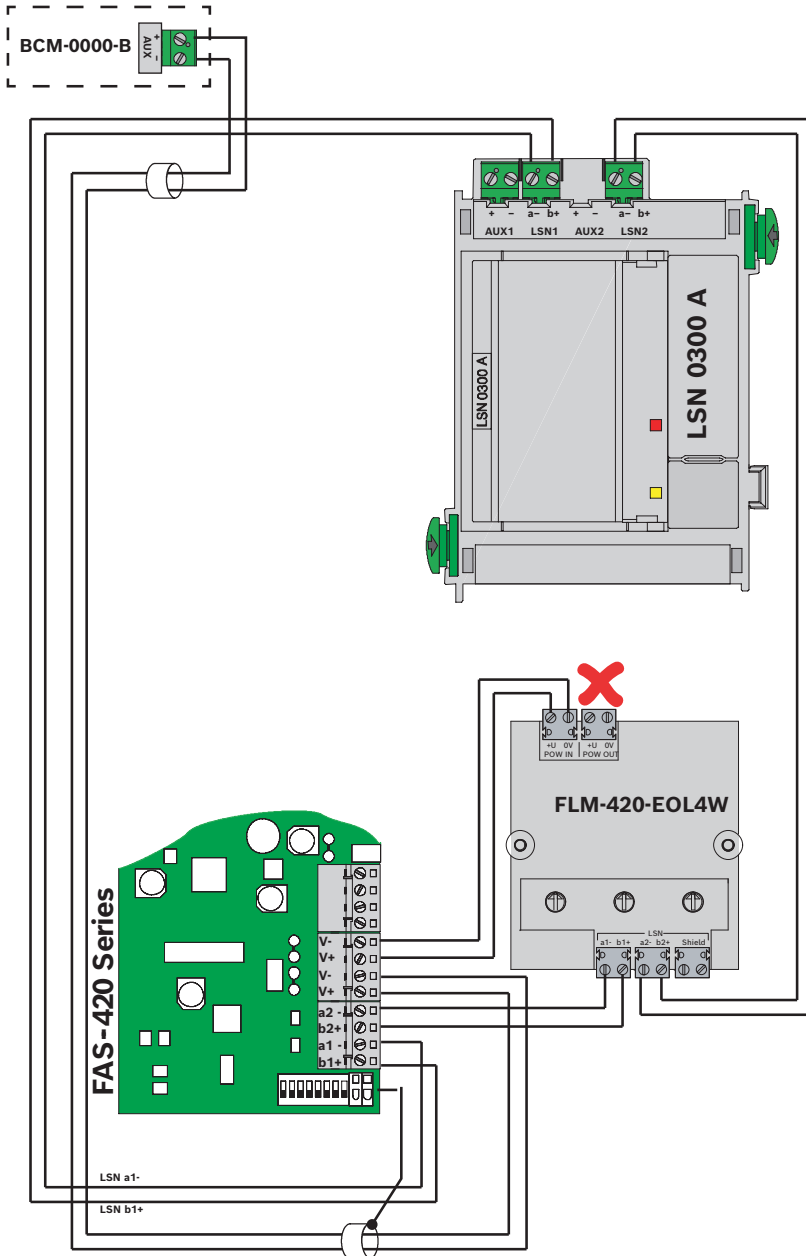




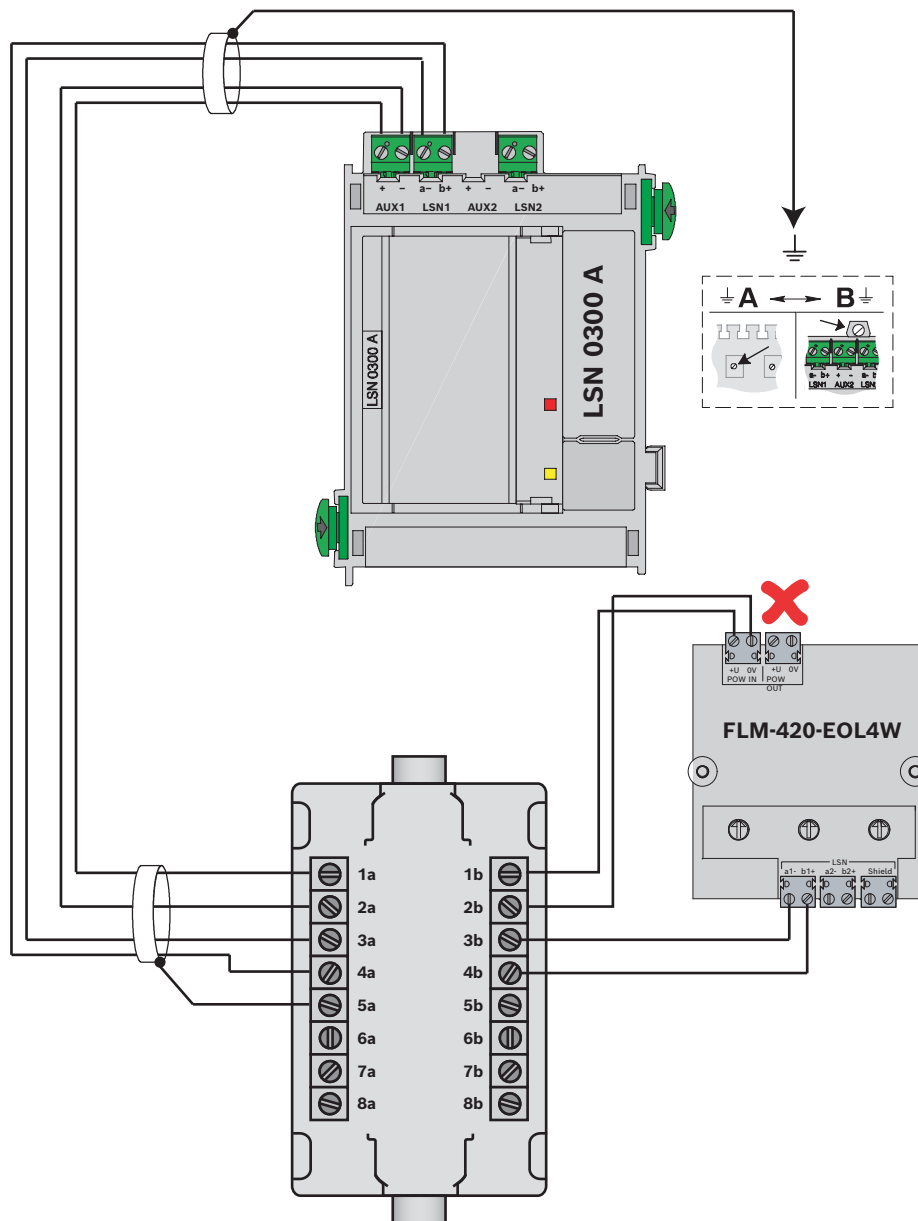
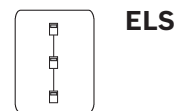
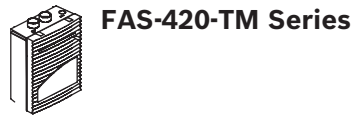
FAS-420 Series

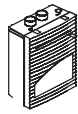


ELS

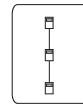




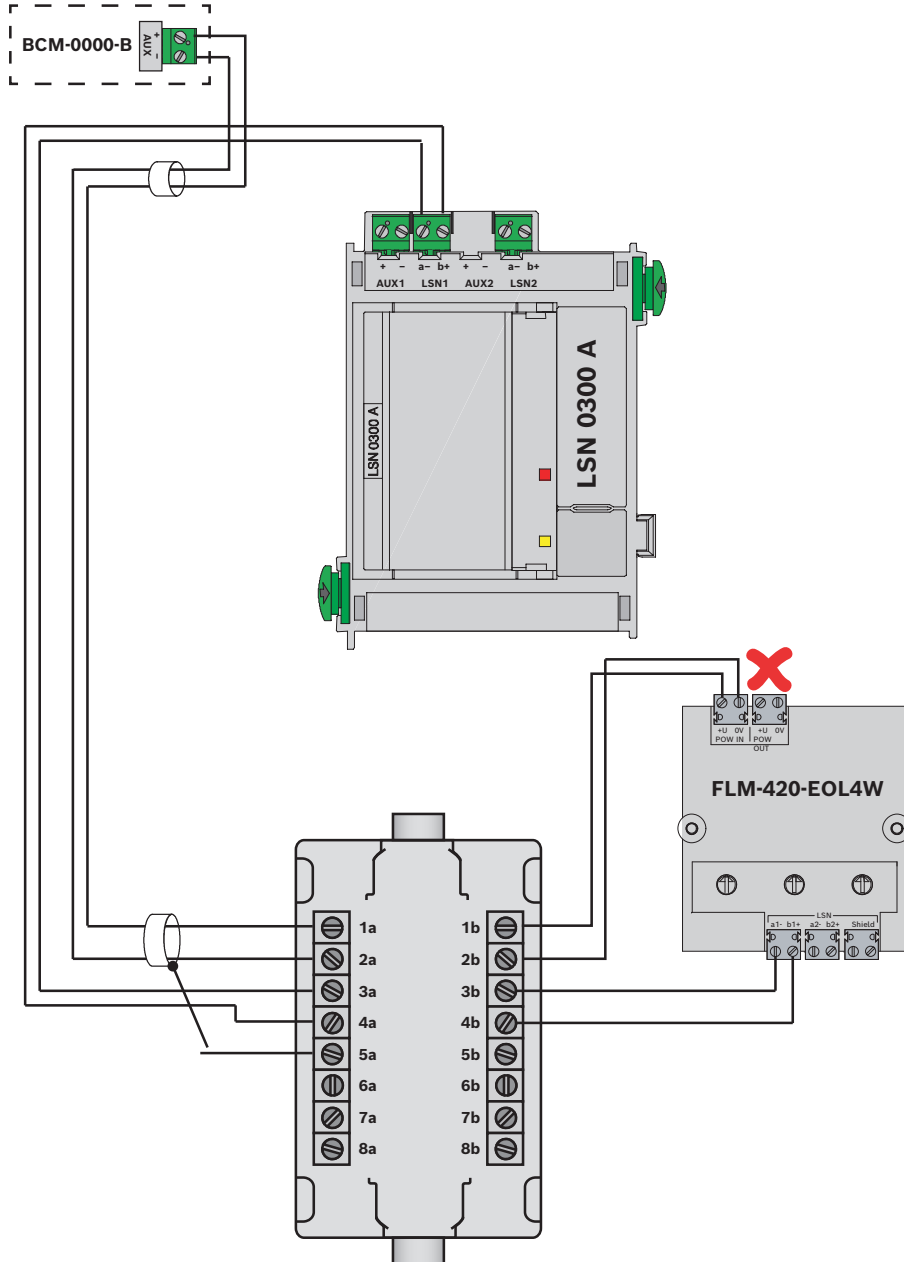


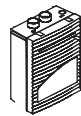


FAS-420-TM Series

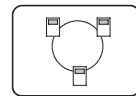


ELS

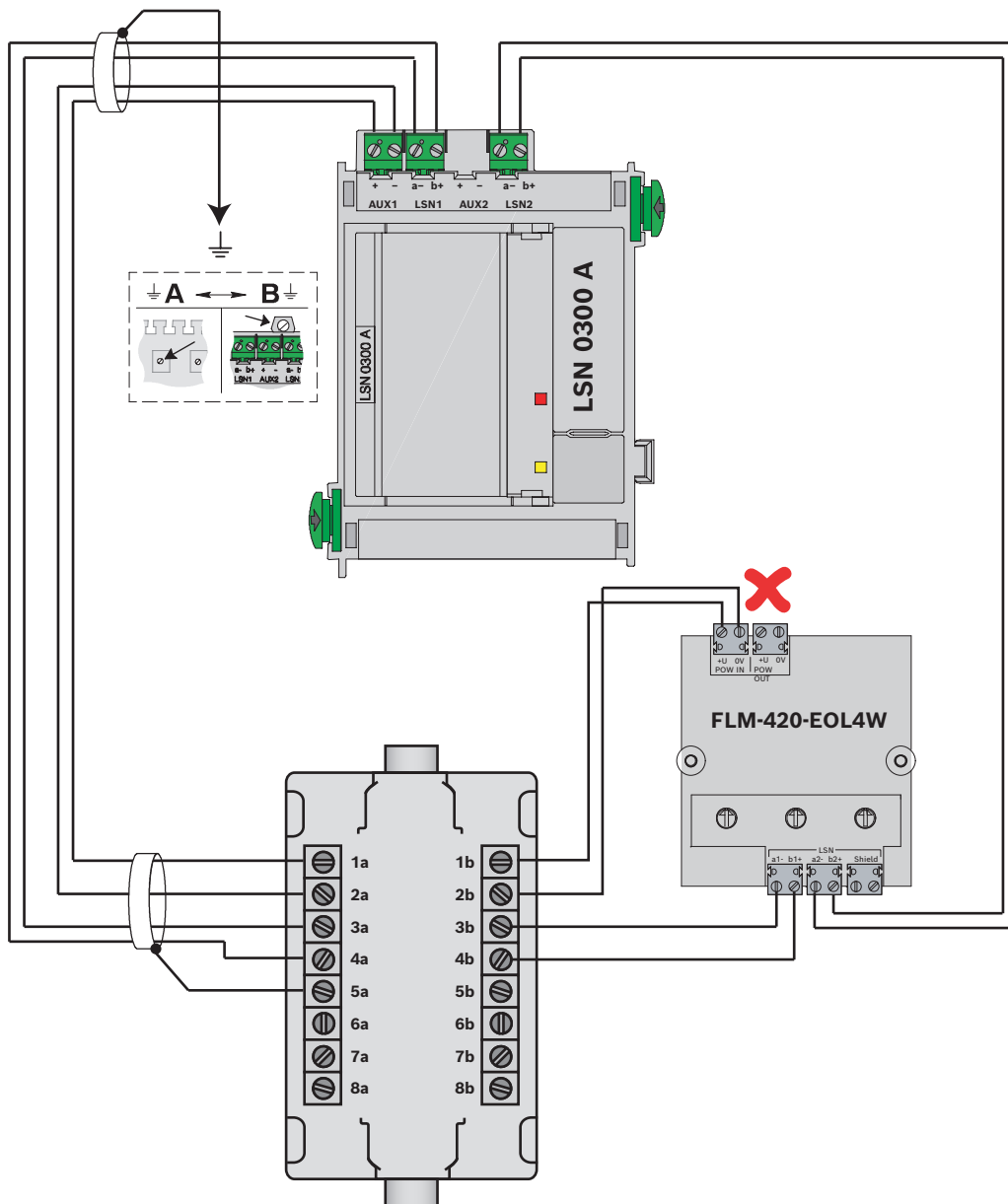


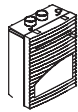


FAS-420-TM Series

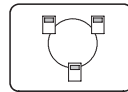


ELS

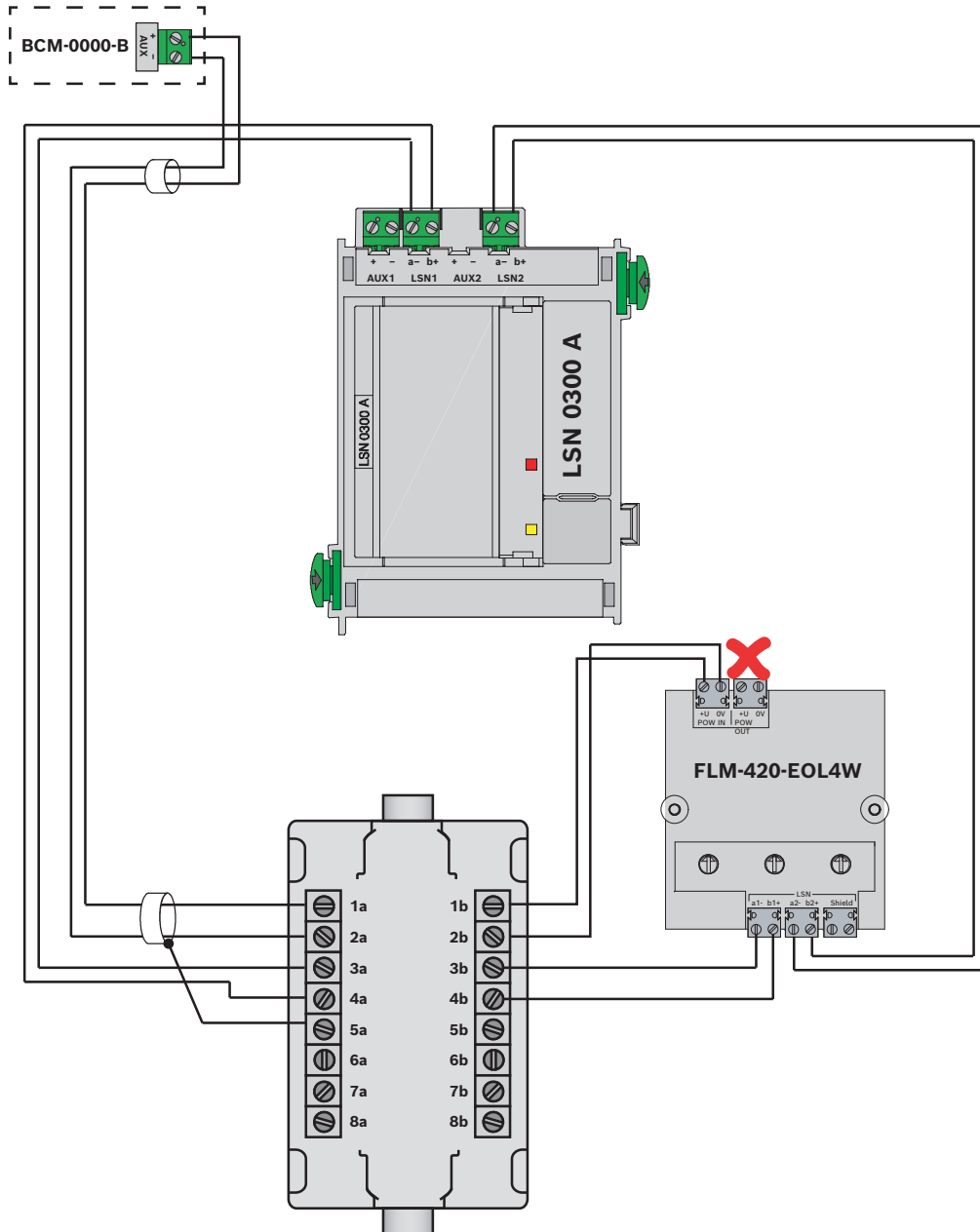


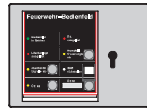


FAS-420-TM Series

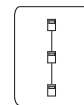


ELS

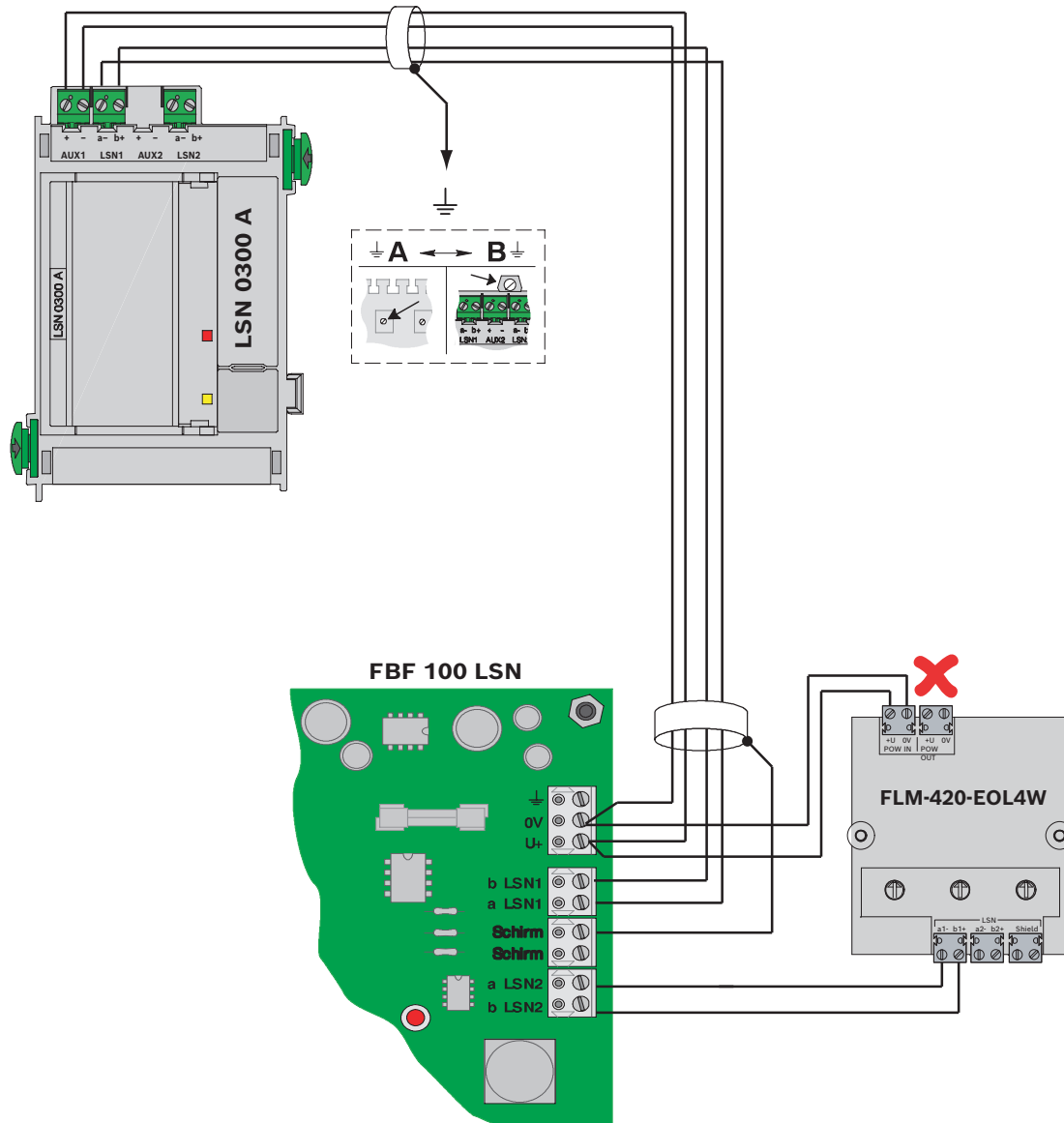


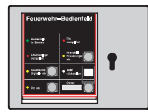


**FBF 100 LSN**

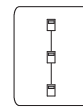


**ELS**

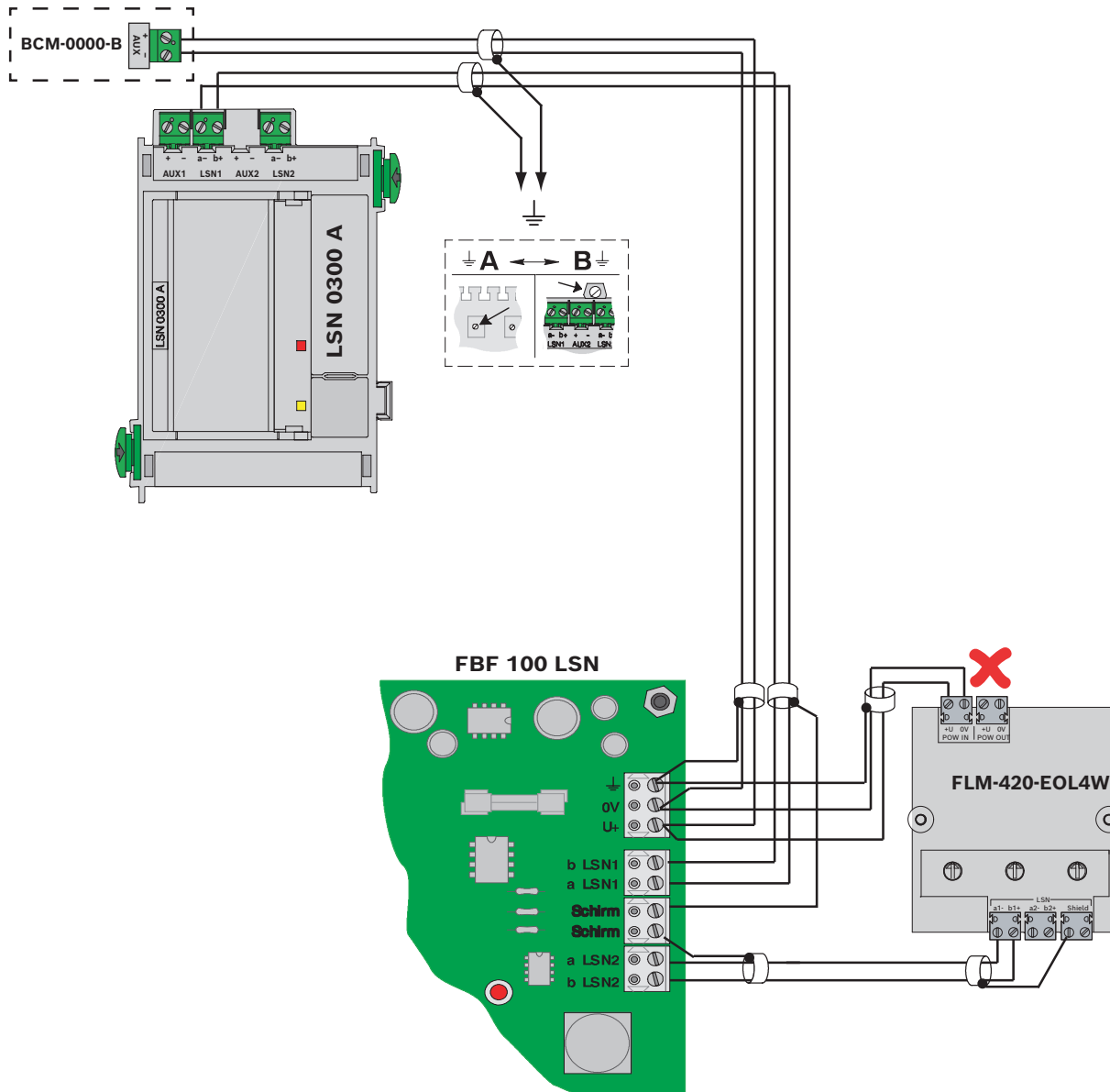




FBF 100 LSN

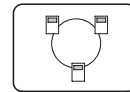


ELS

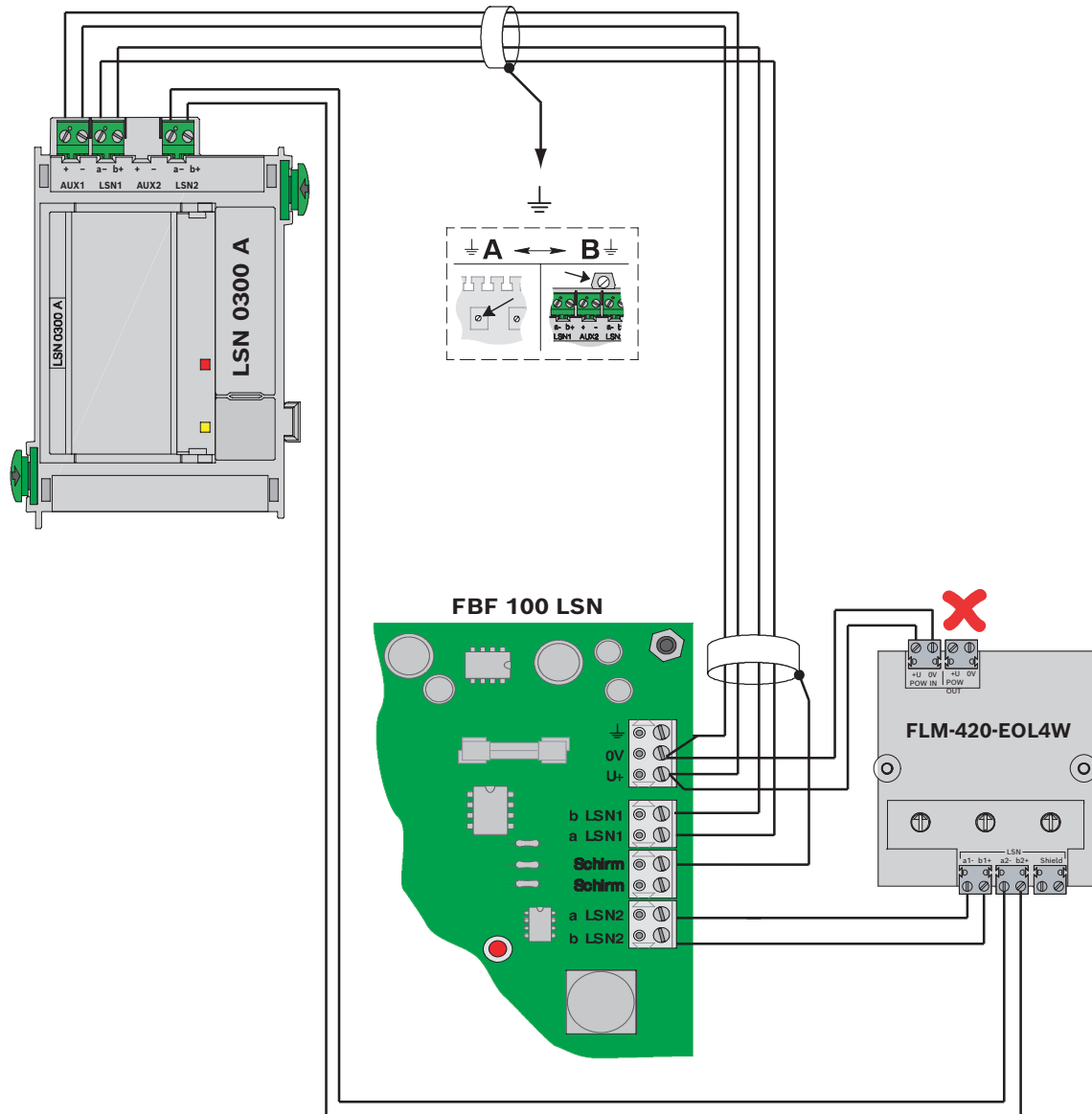


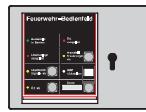


FBF 100 LSN

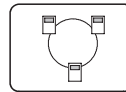


ELS

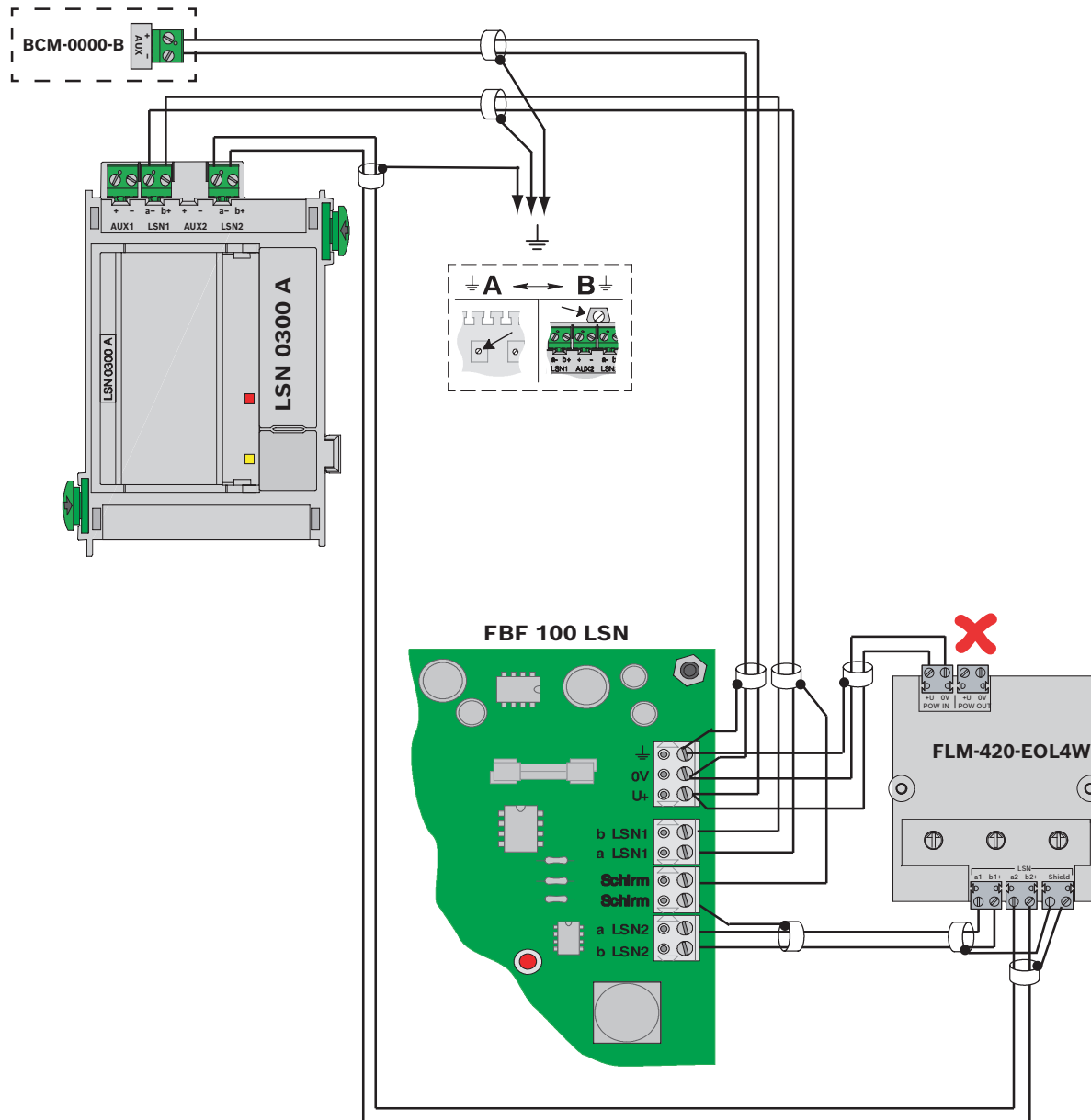




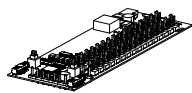
**FBF 100 LSN**



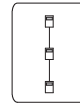
**ELS**



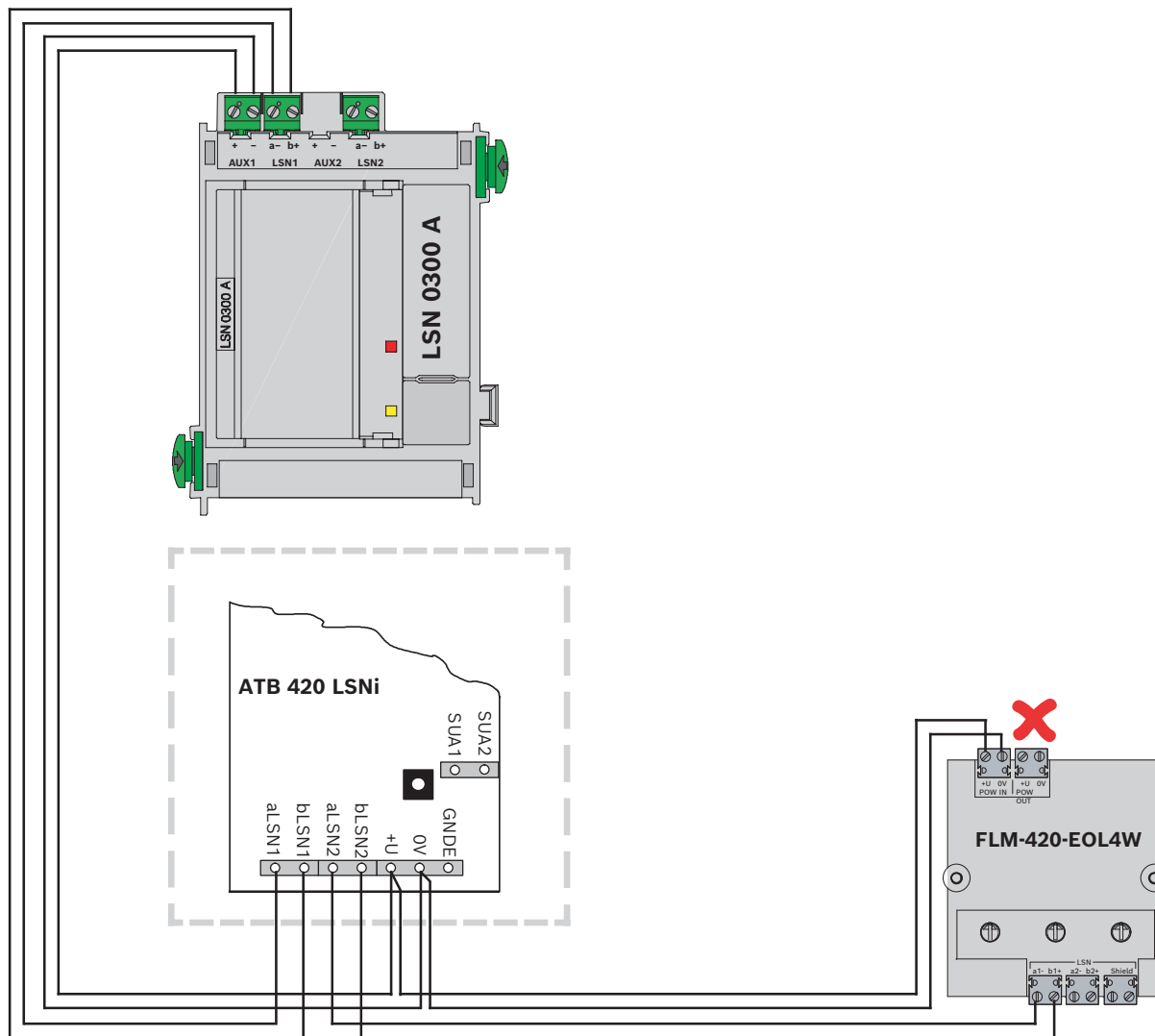


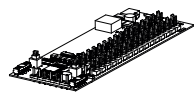
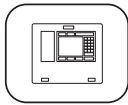


ATB 420 LSNi

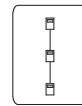


ELS

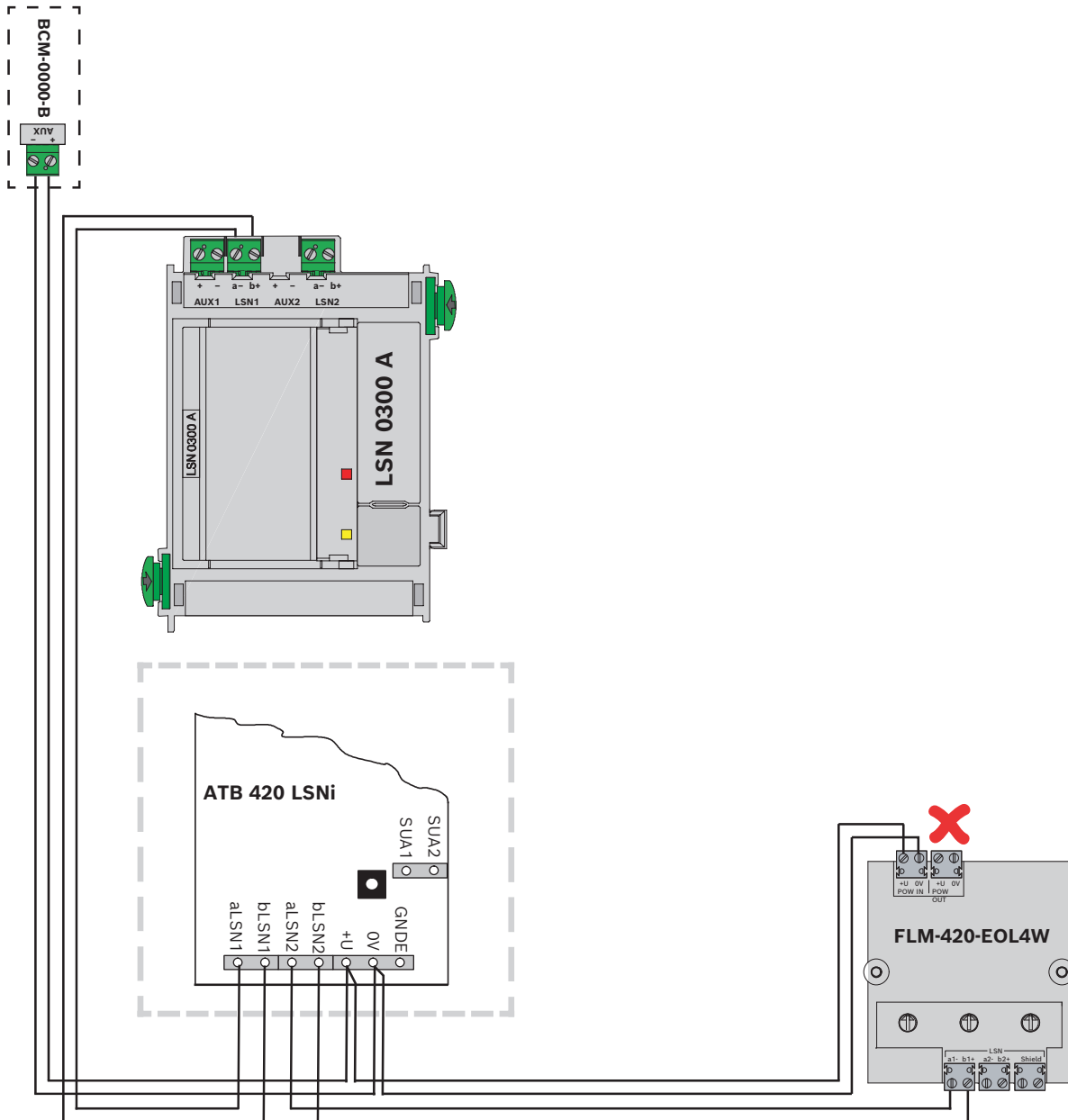


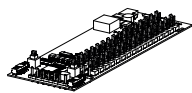


ATB 420 LSNi

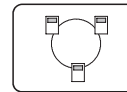


ELS

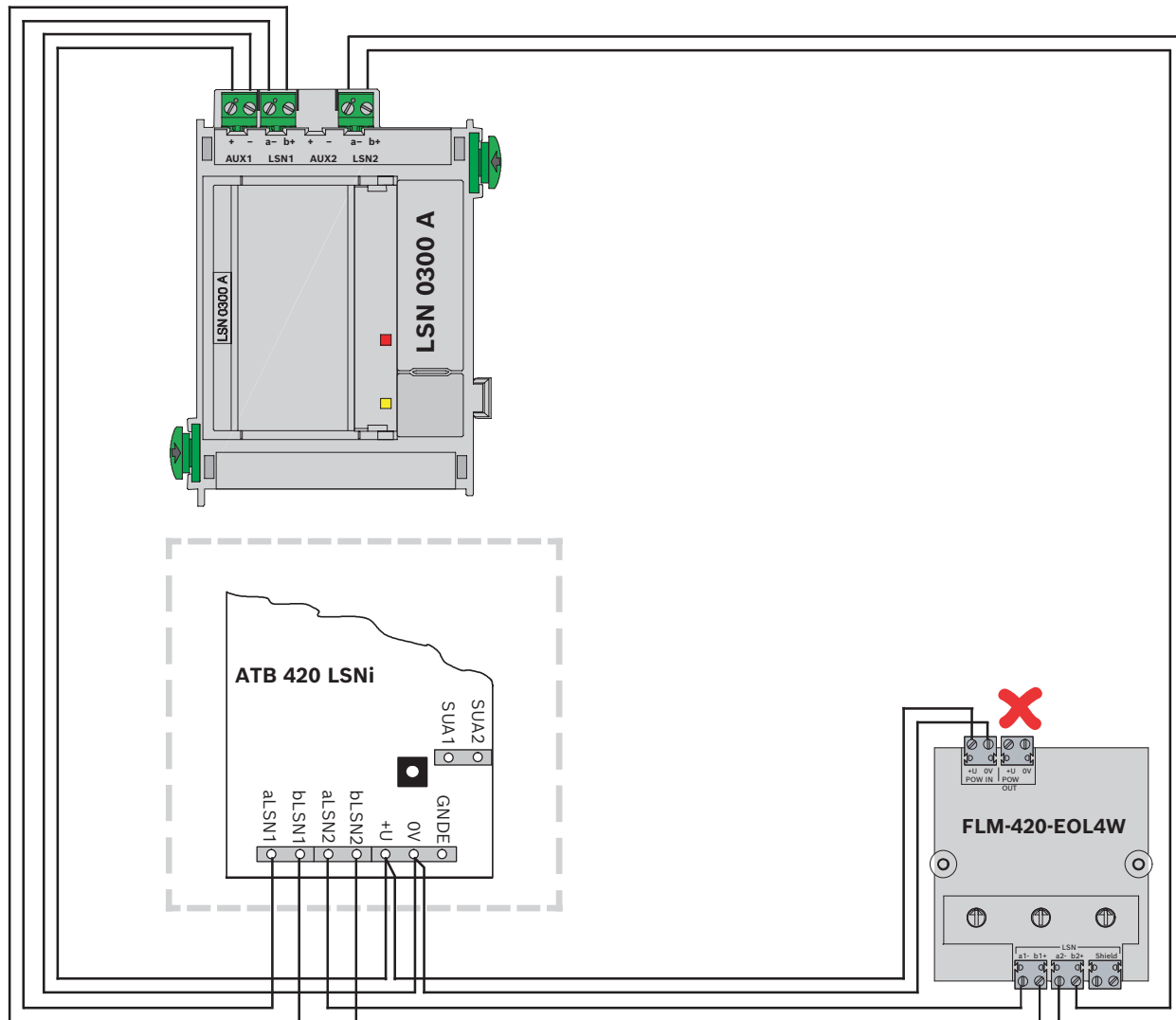


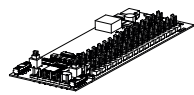


ATB 420 LSNi

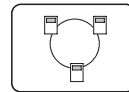


ELS

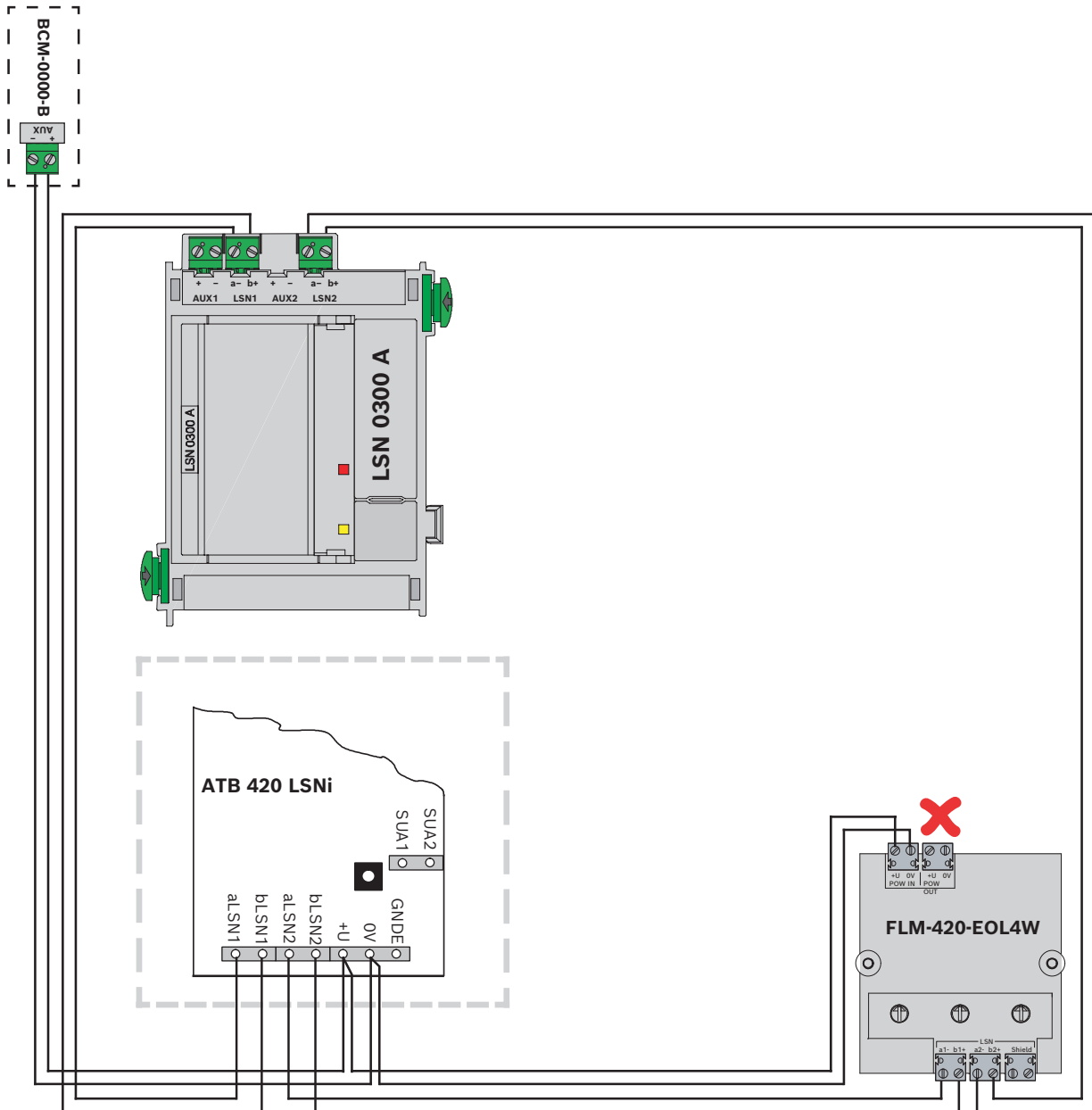




ATB 420 LSNi

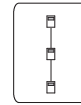


ELS

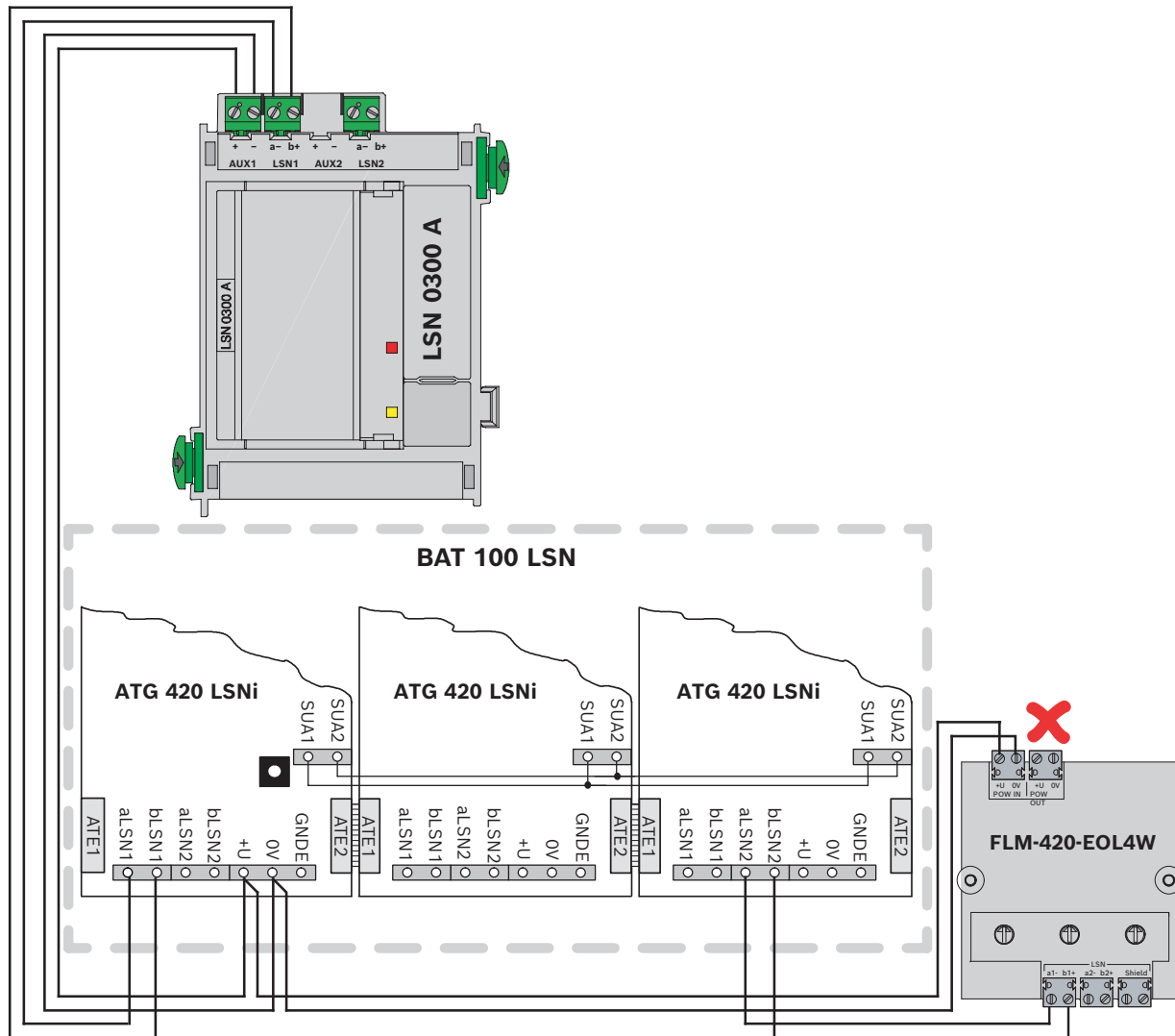




**BAT 100 LSN  
ATG 420 LSNi**

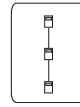


**ELS**

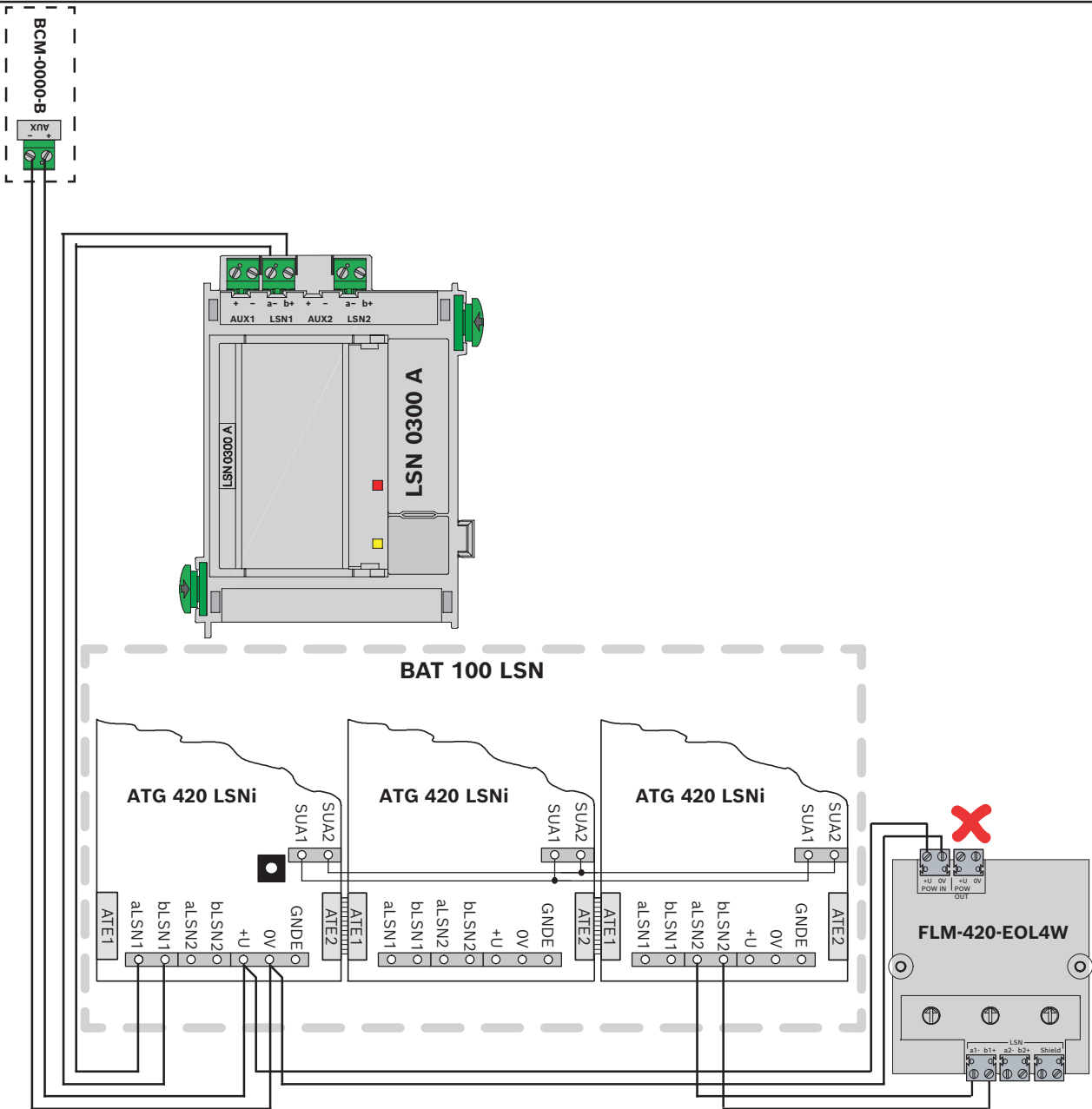




BAT 100 LSN  
ATG 420 LSNi

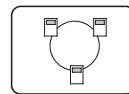


ELS

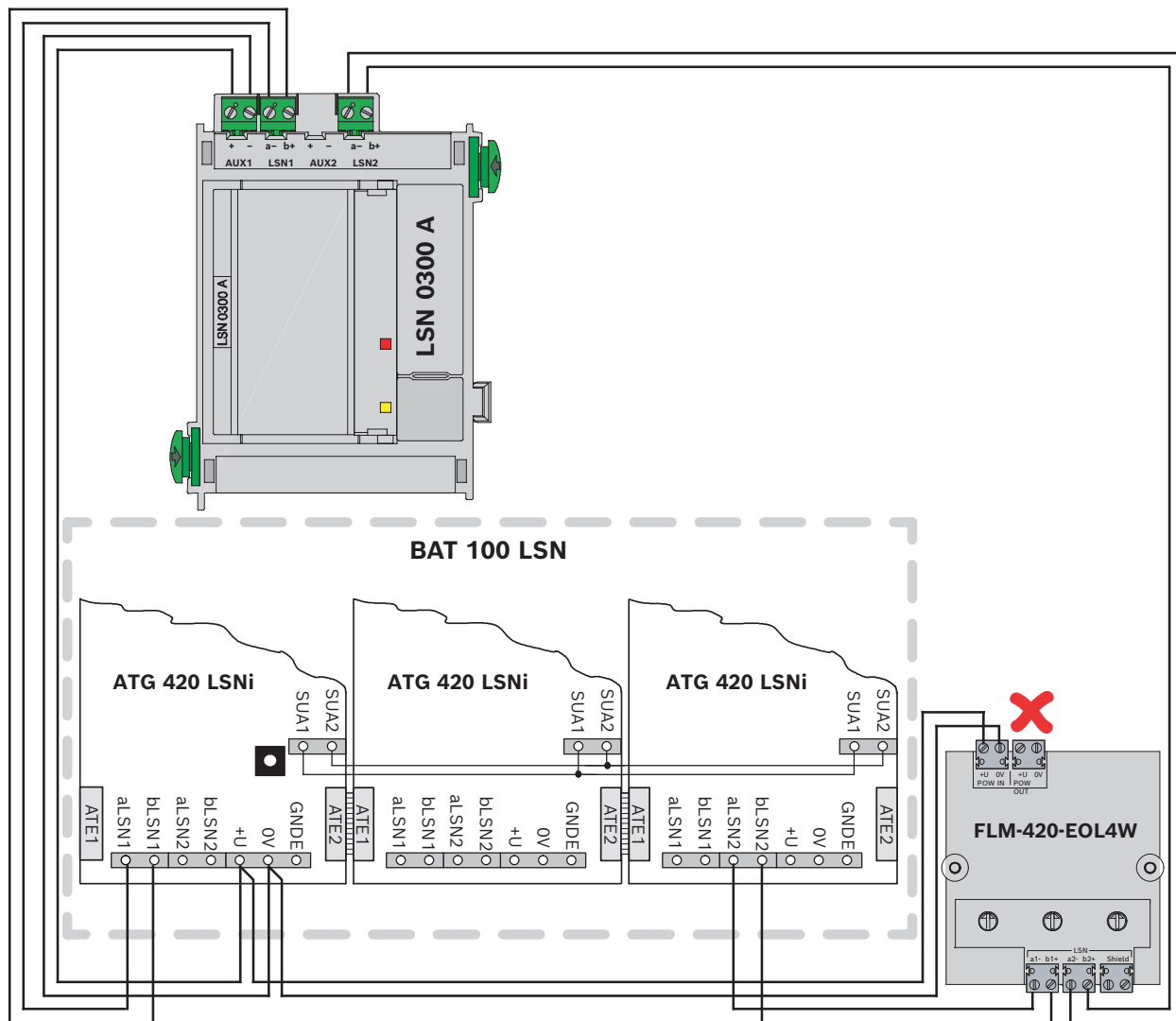




**BAT 100 LSN  
ATG 420 LSNi**

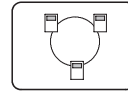


**ELS**

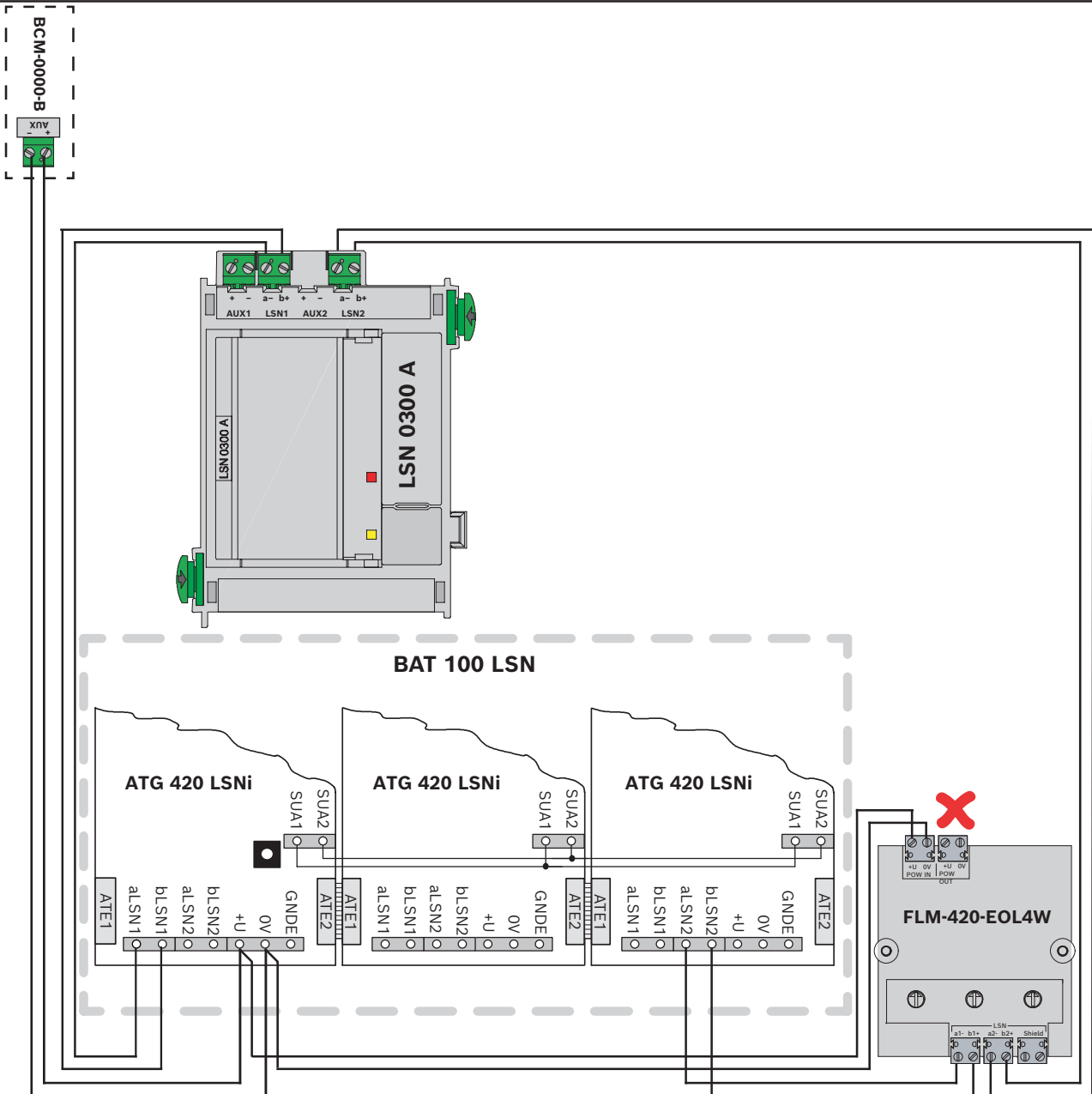




BAT 100 LSN  
ATG 420 LSNi



ELS



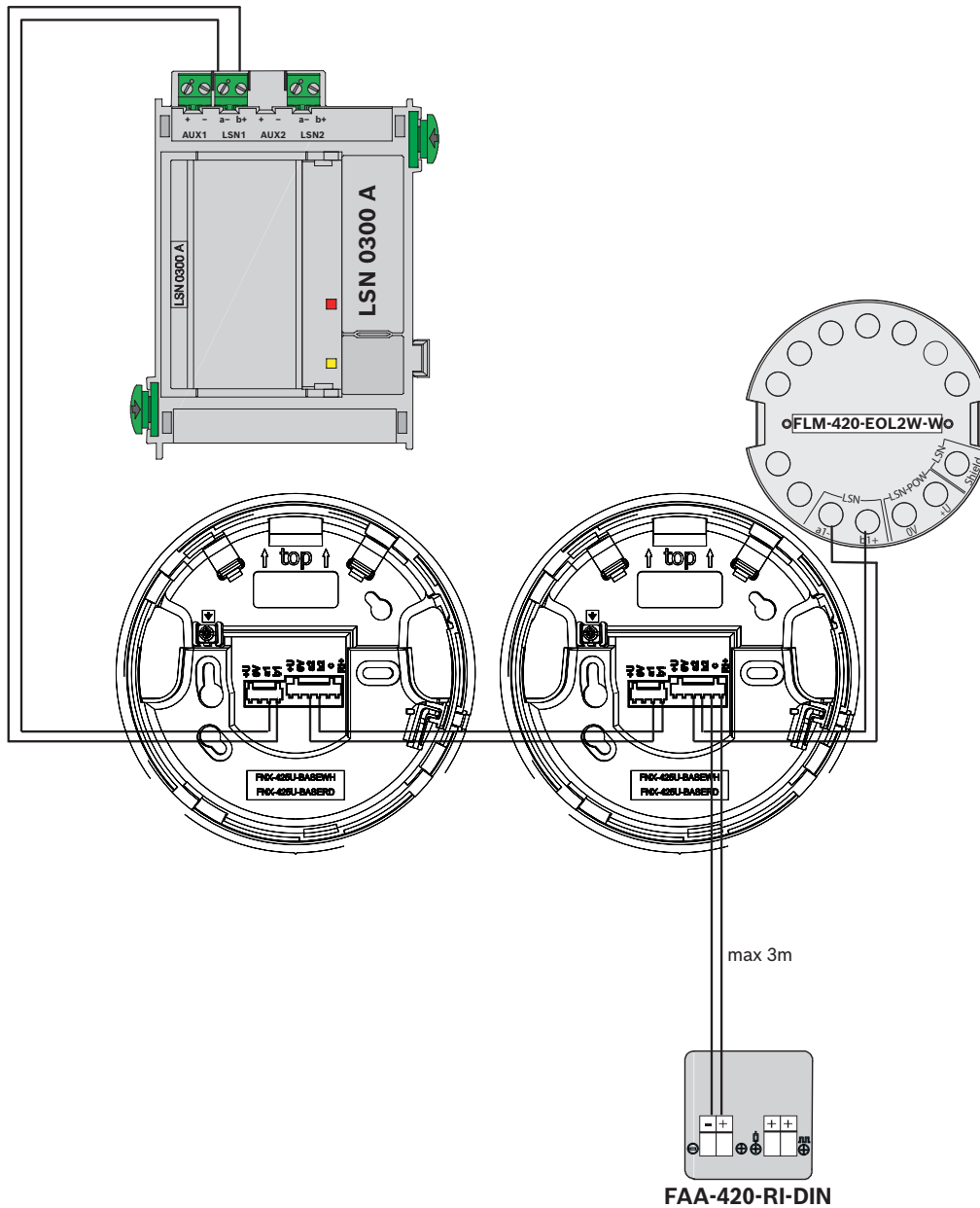




**FNX-425U-WFWH**  
**FNX-425U-RFWH**  
**FNX-425U-WFRD**  
**FNX-425U-RFRD**



**ELS**



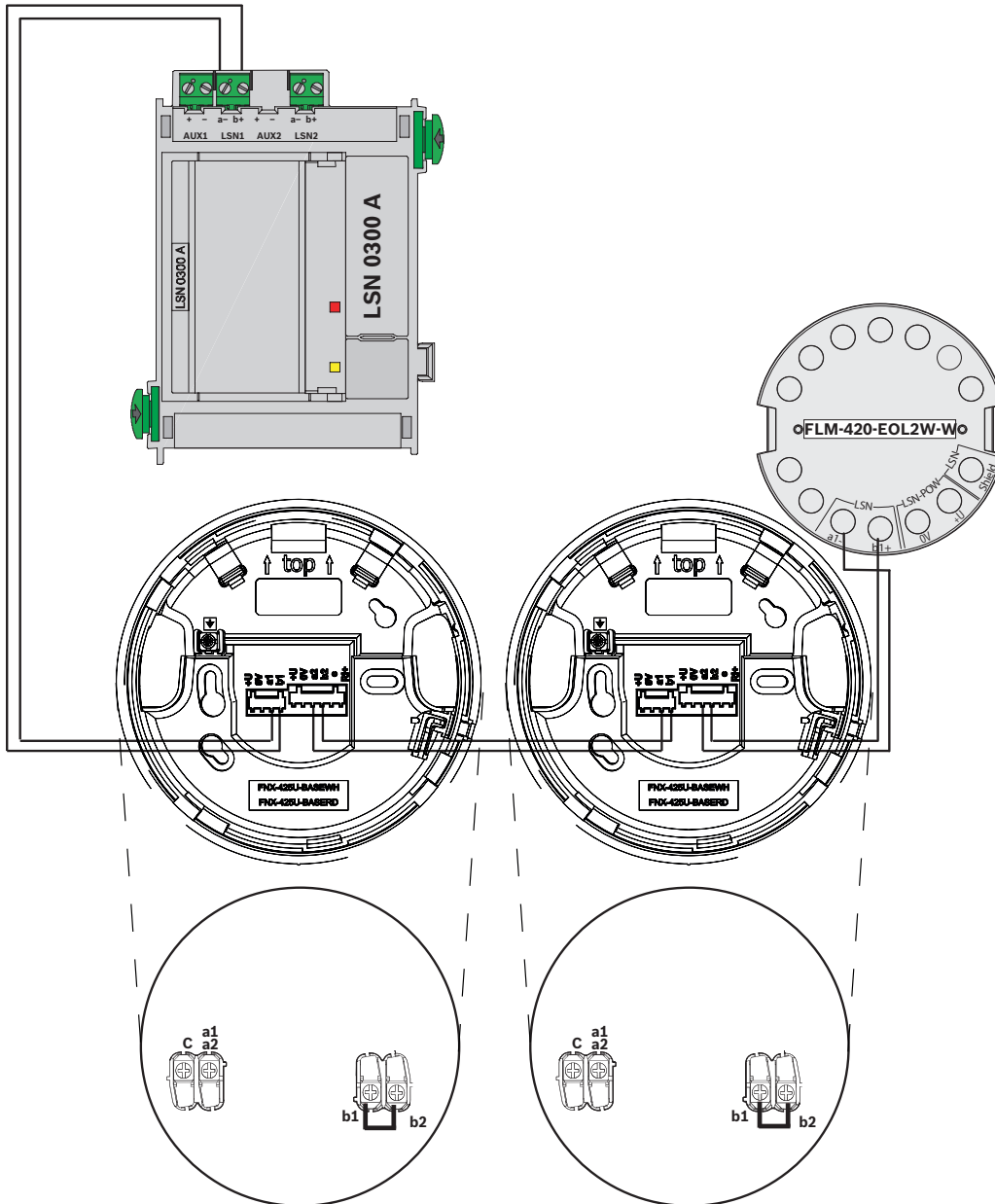


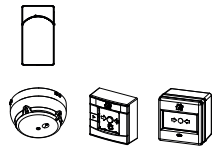
FNX-425U-WFWH  
 FNX-425U-RFWH  
 FNX-425U-WFRD  
 FNX-425U-RFRD

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



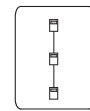
ELS



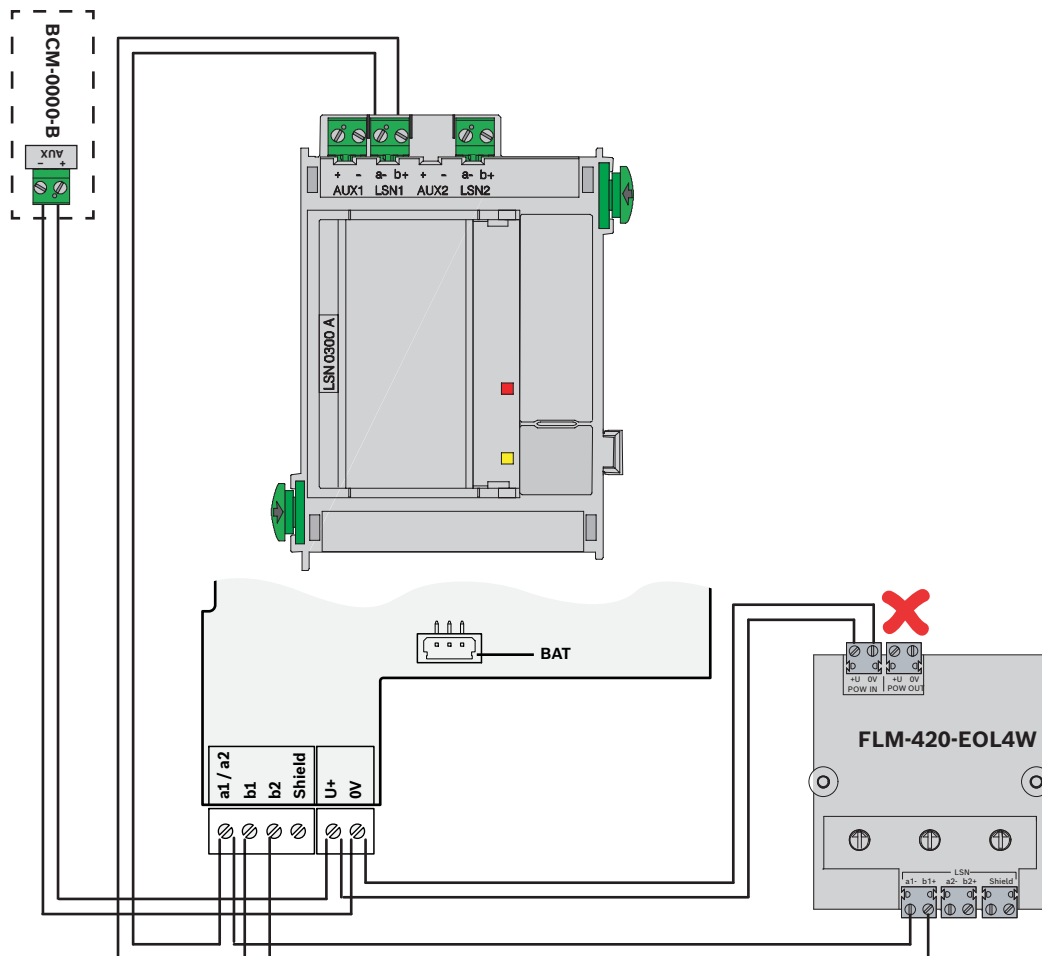


**FWI-270**

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



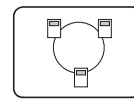
**ELS**



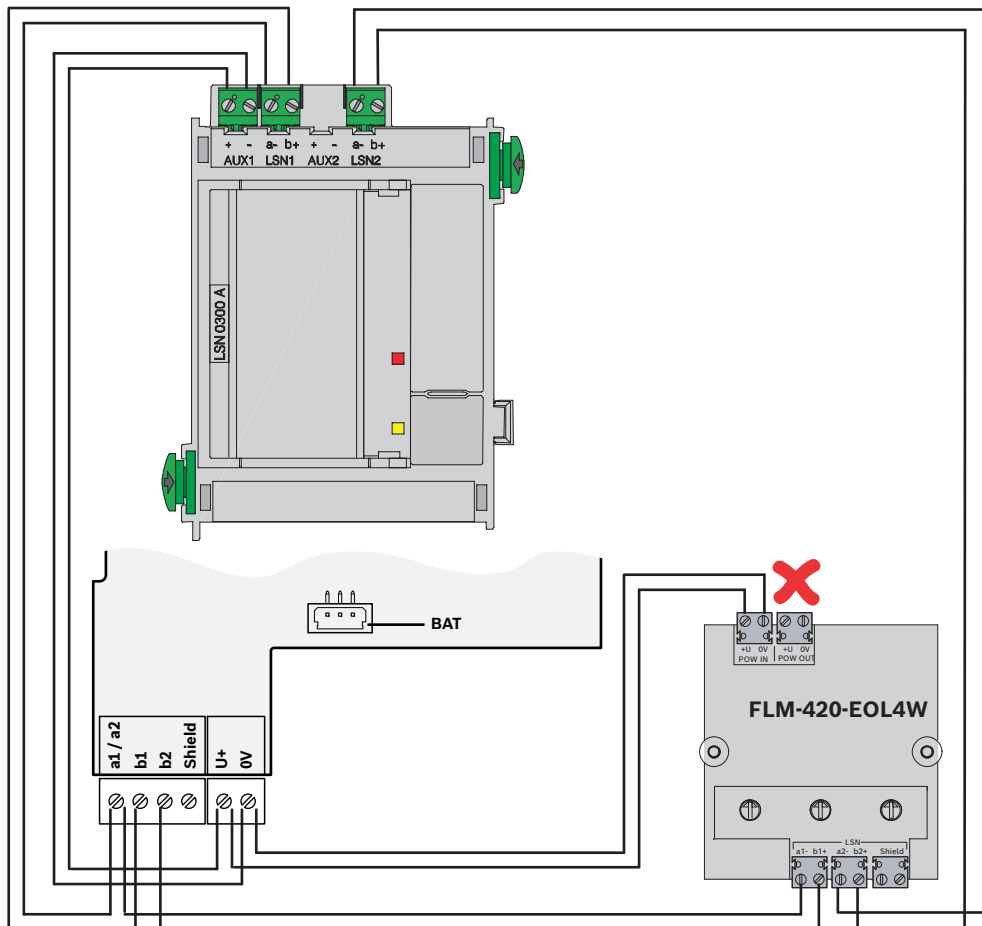


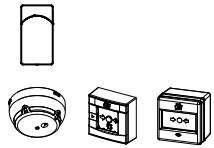
**FWI-270**

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



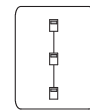
**ELS**



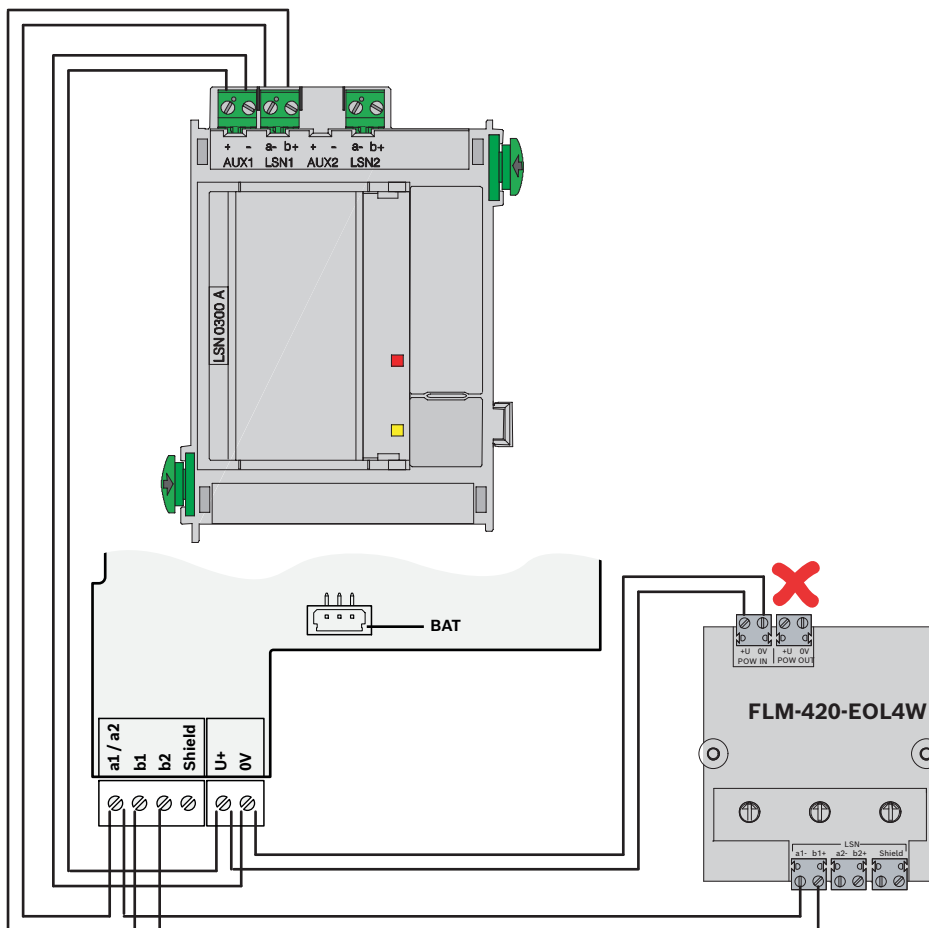


**FWI-270**

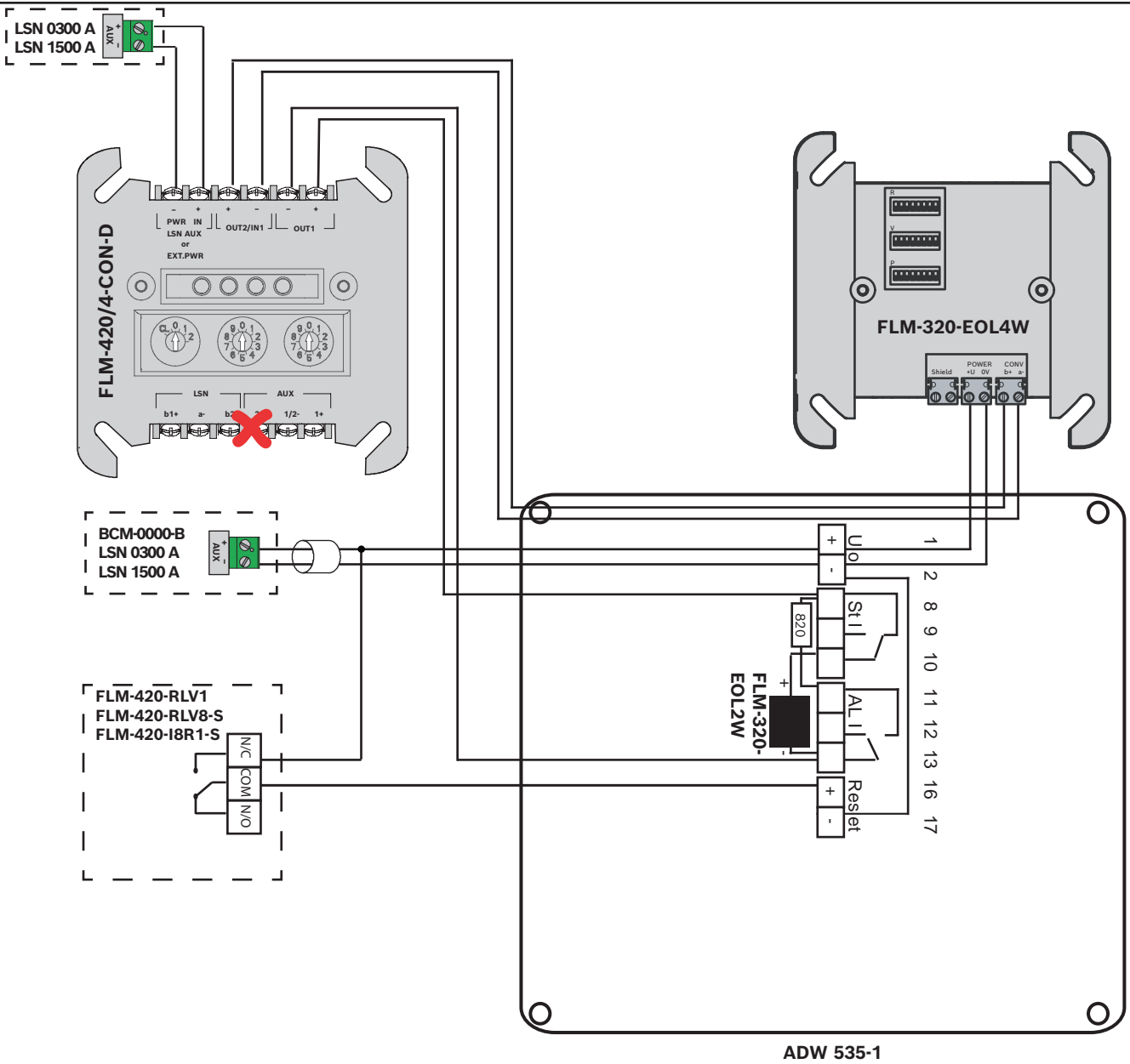
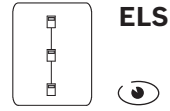
**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**

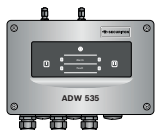


**ELS**

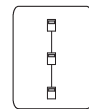


### 2.6.3 FLM-420/4-CON-S/D

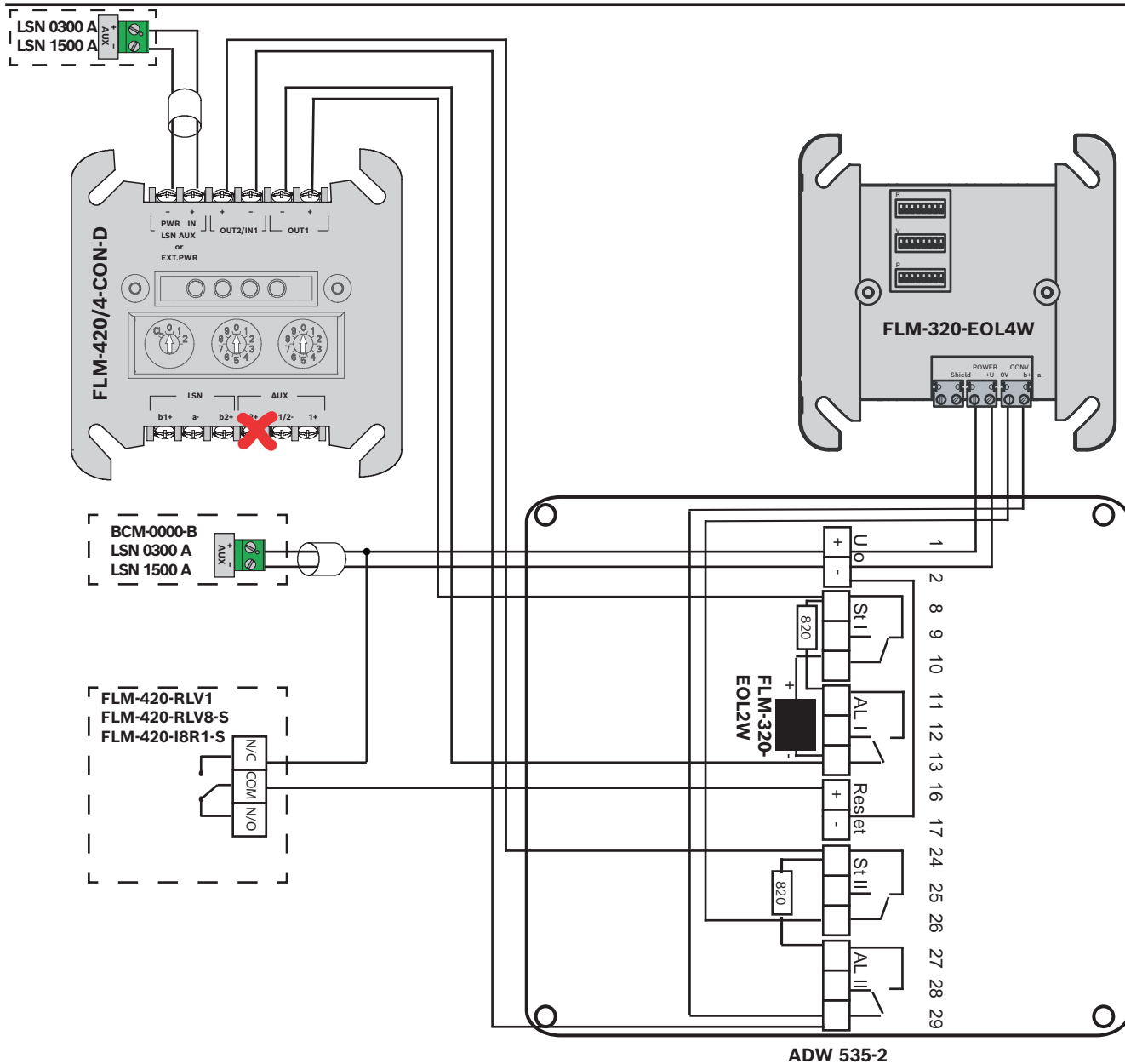




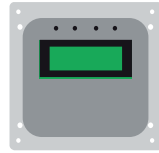
ADW 535-2



ELS



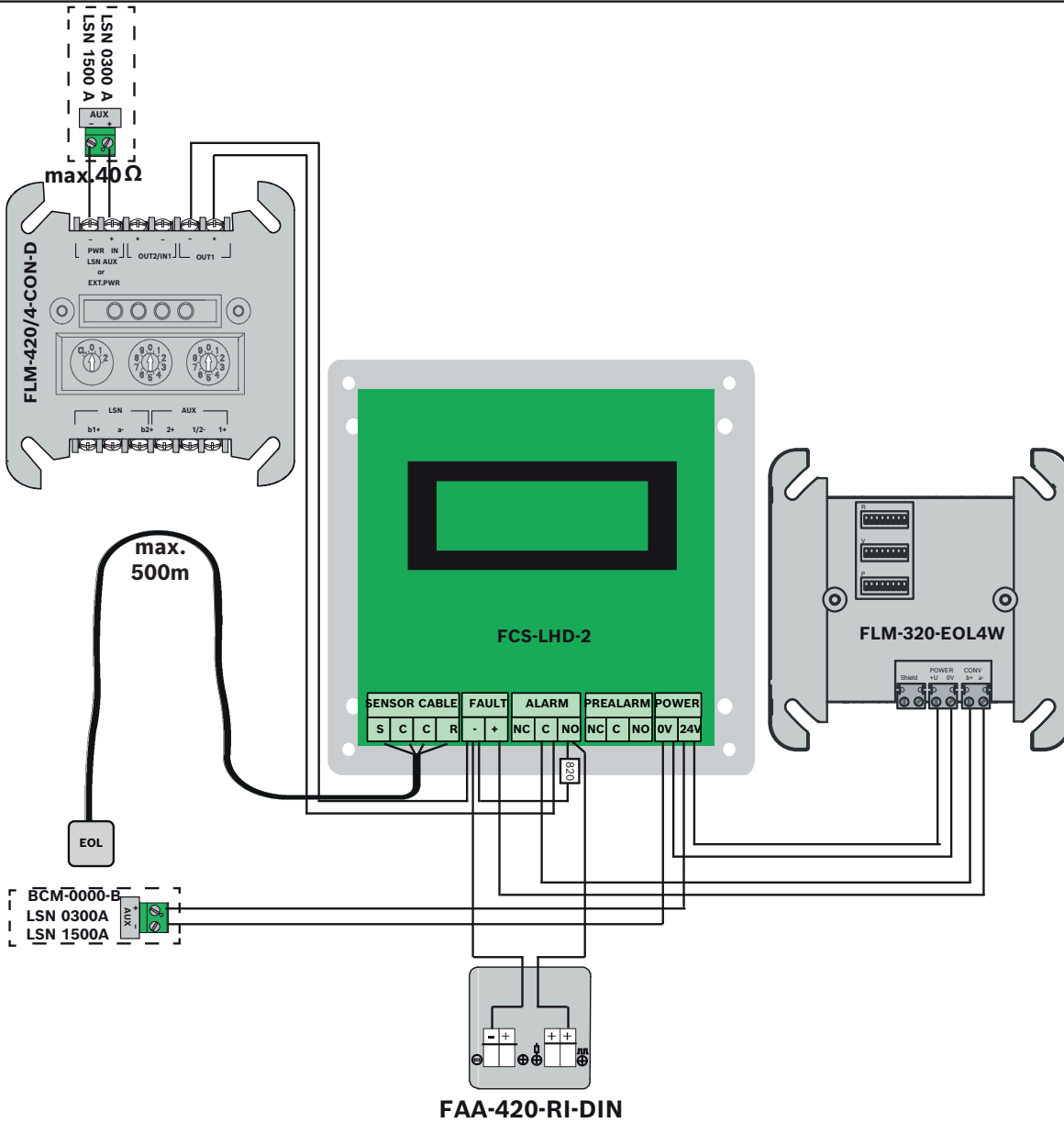
ADW 535-2



ALARMLINE II



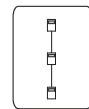
ELS



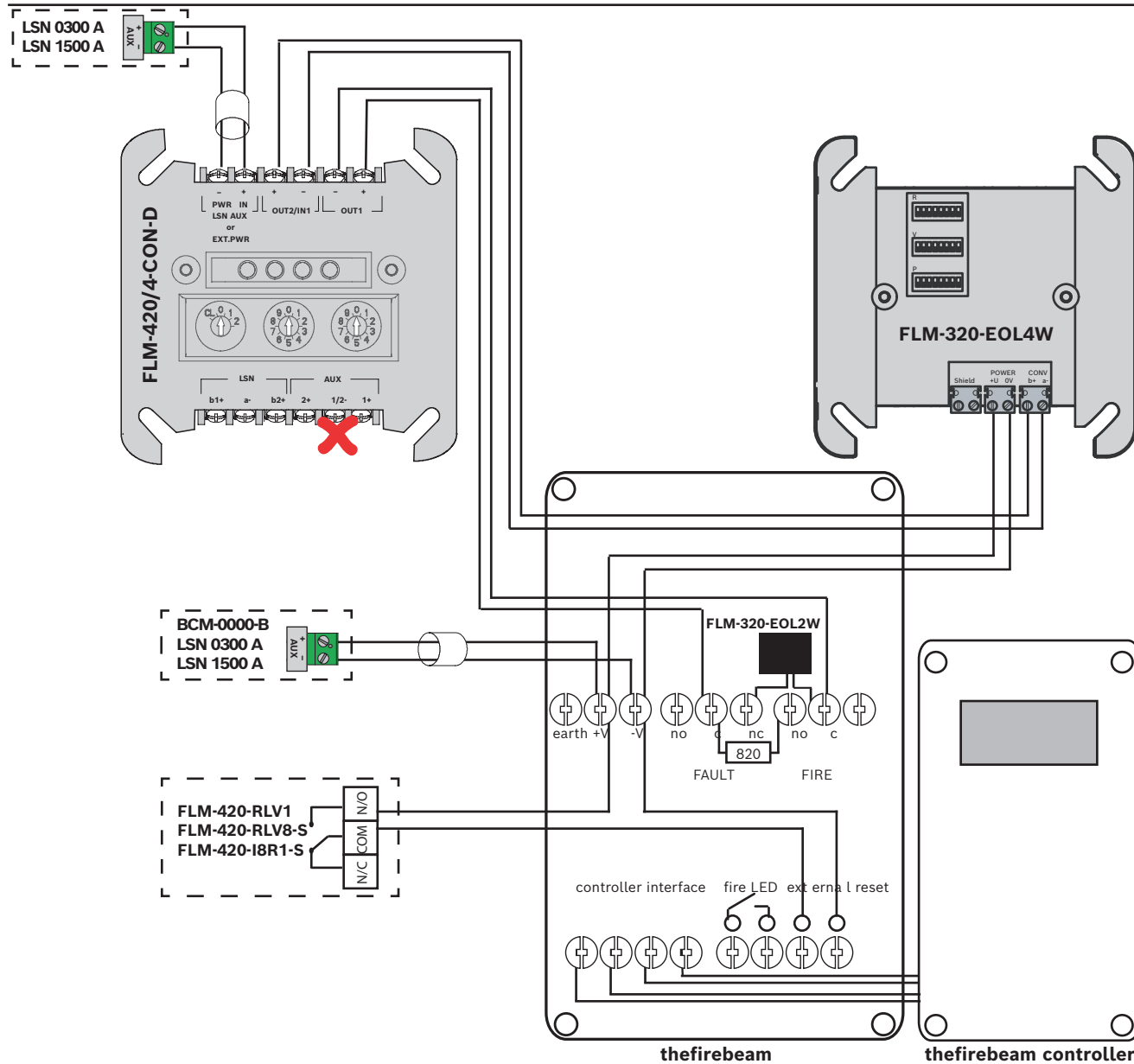


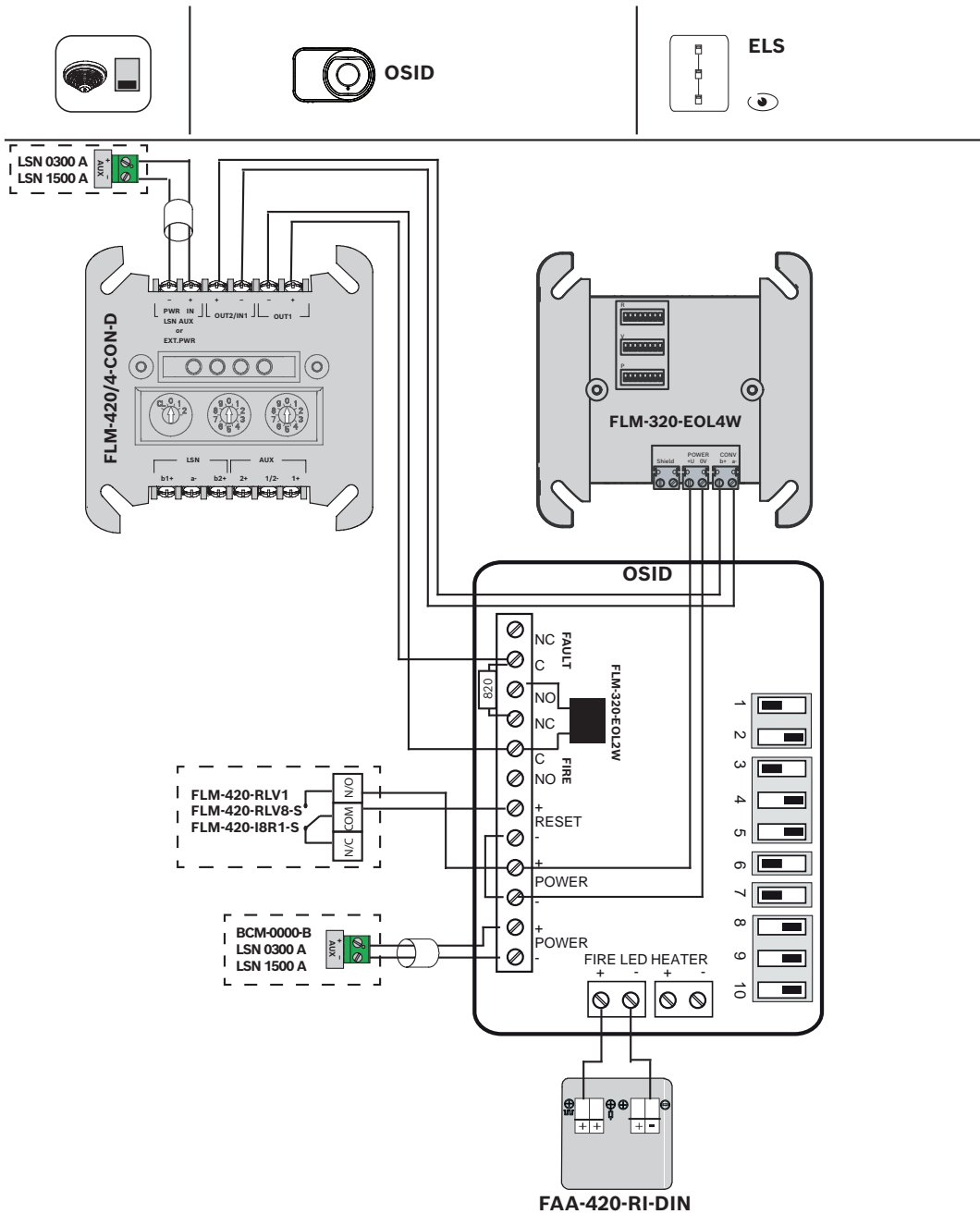


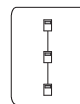
thefirebeam nano  
thefirebeam standard  
thefirebeam foveo



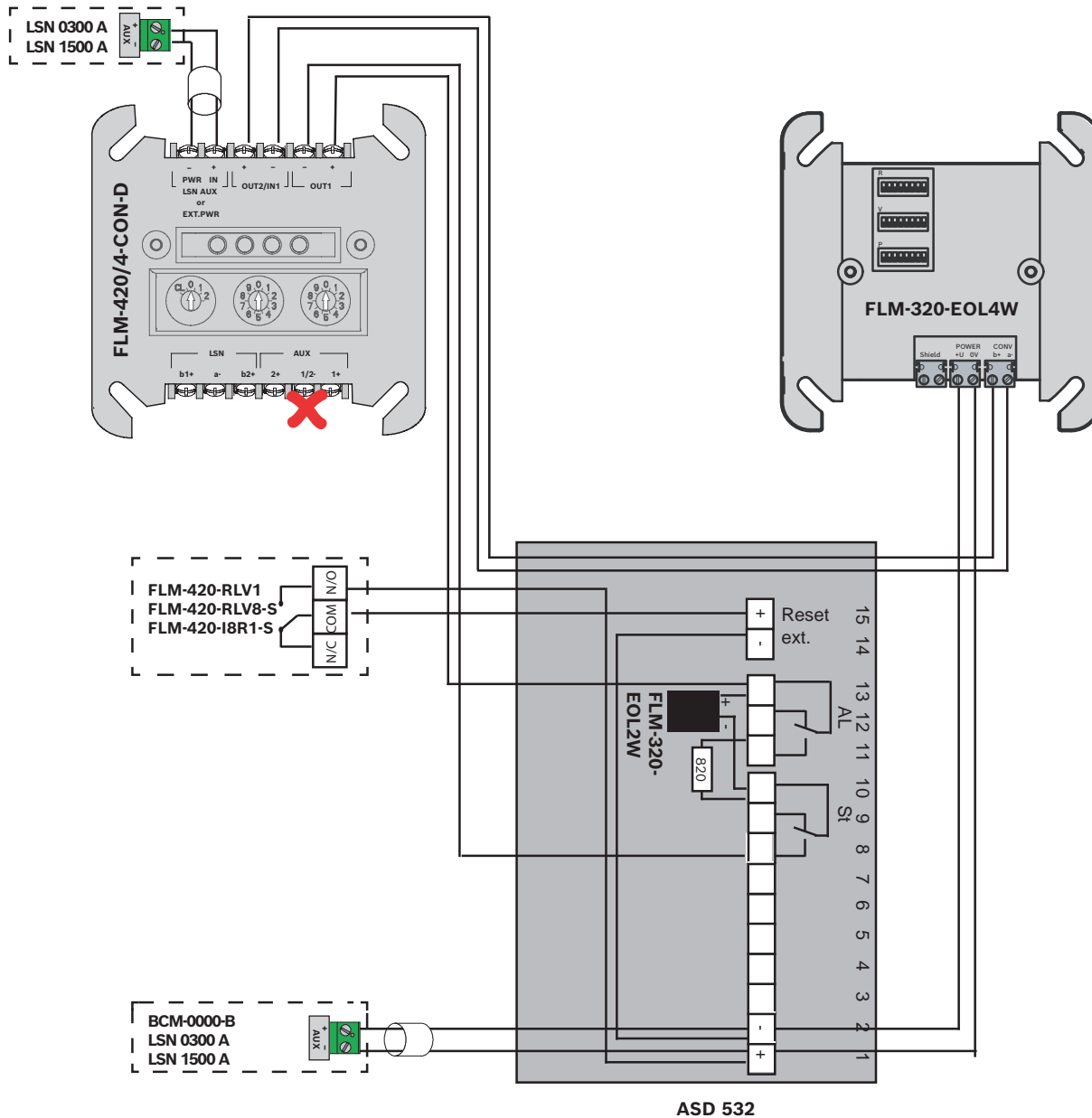
ELS

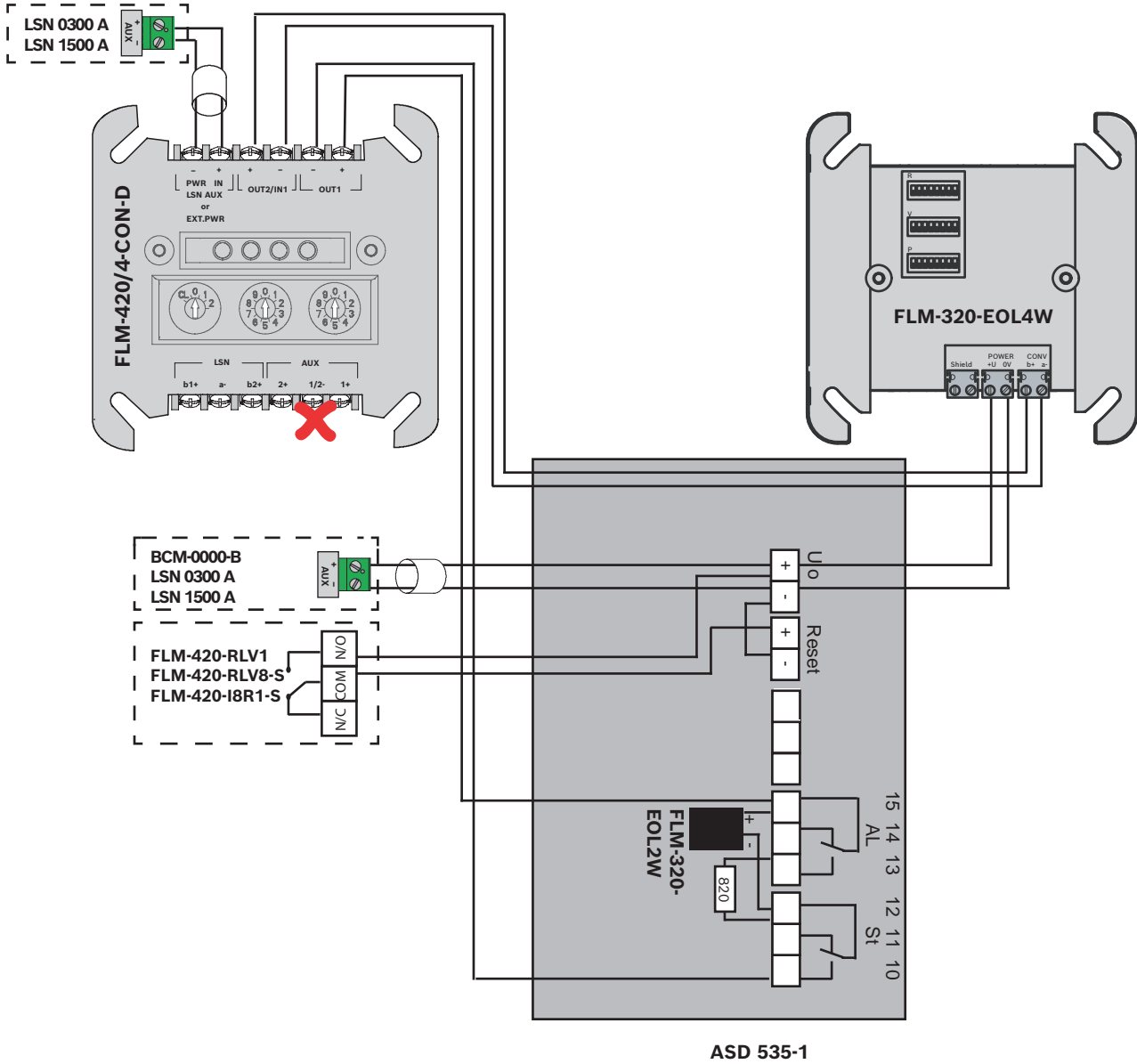
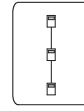


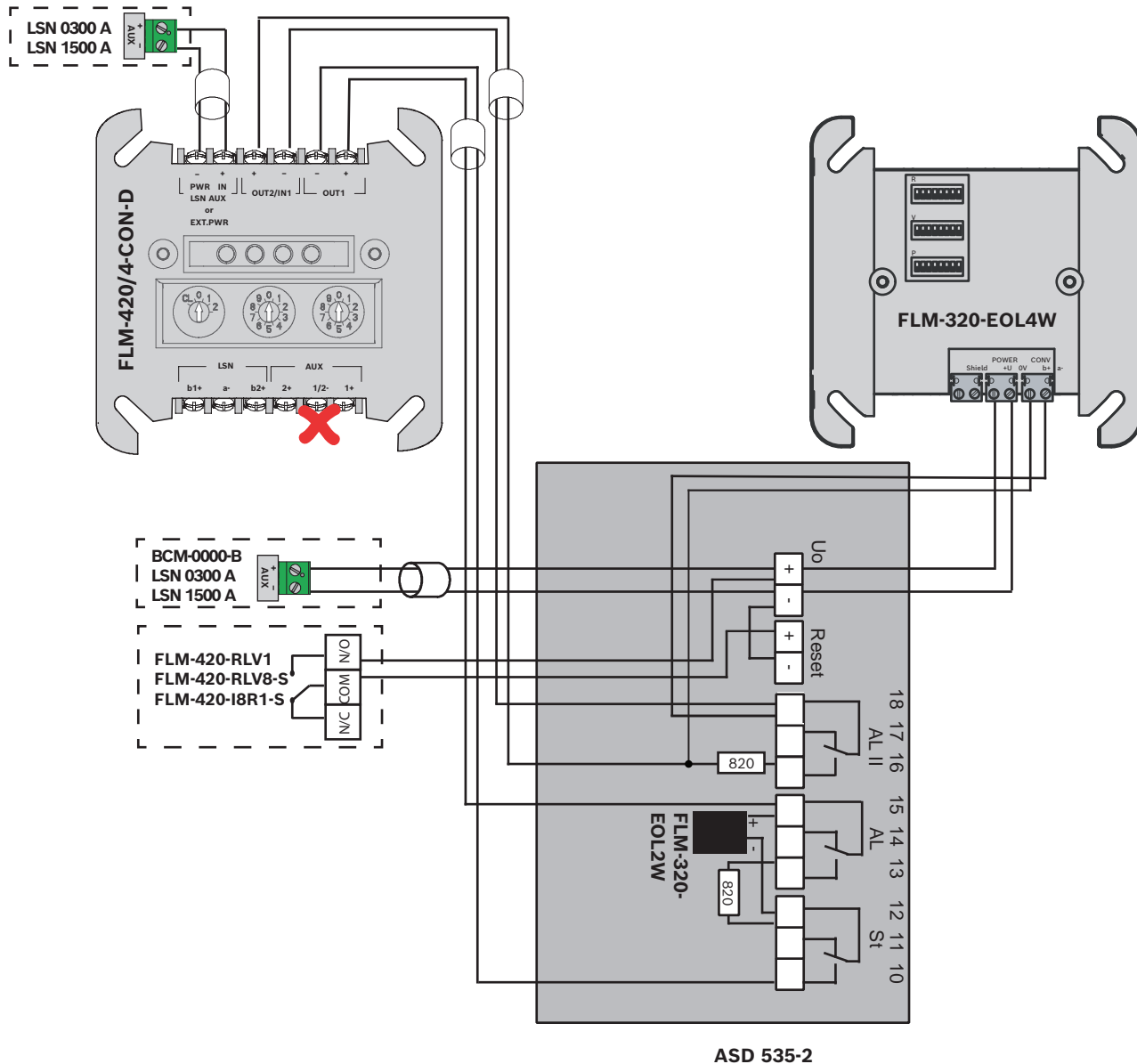
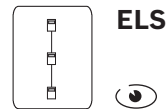


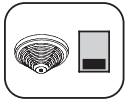


ELS

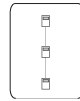






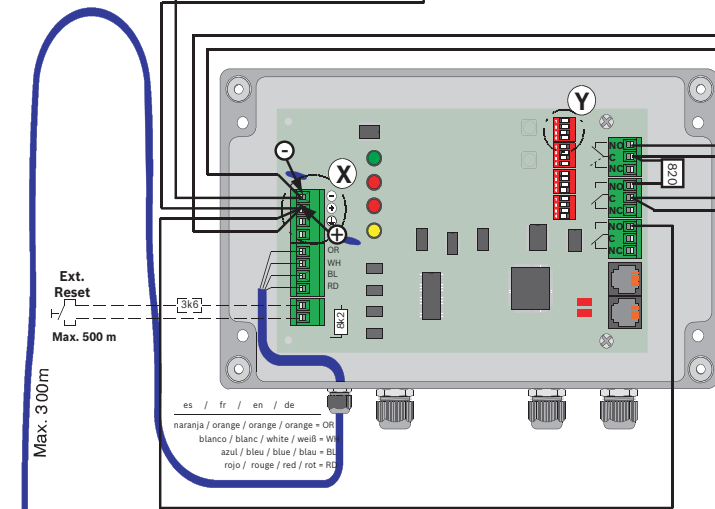
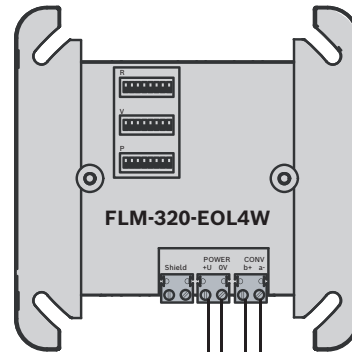
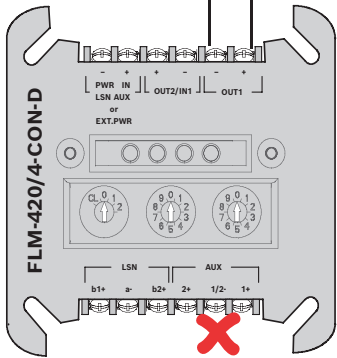


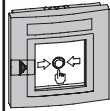
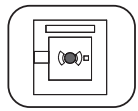
FCS-LWM-1



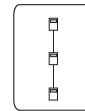
ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A

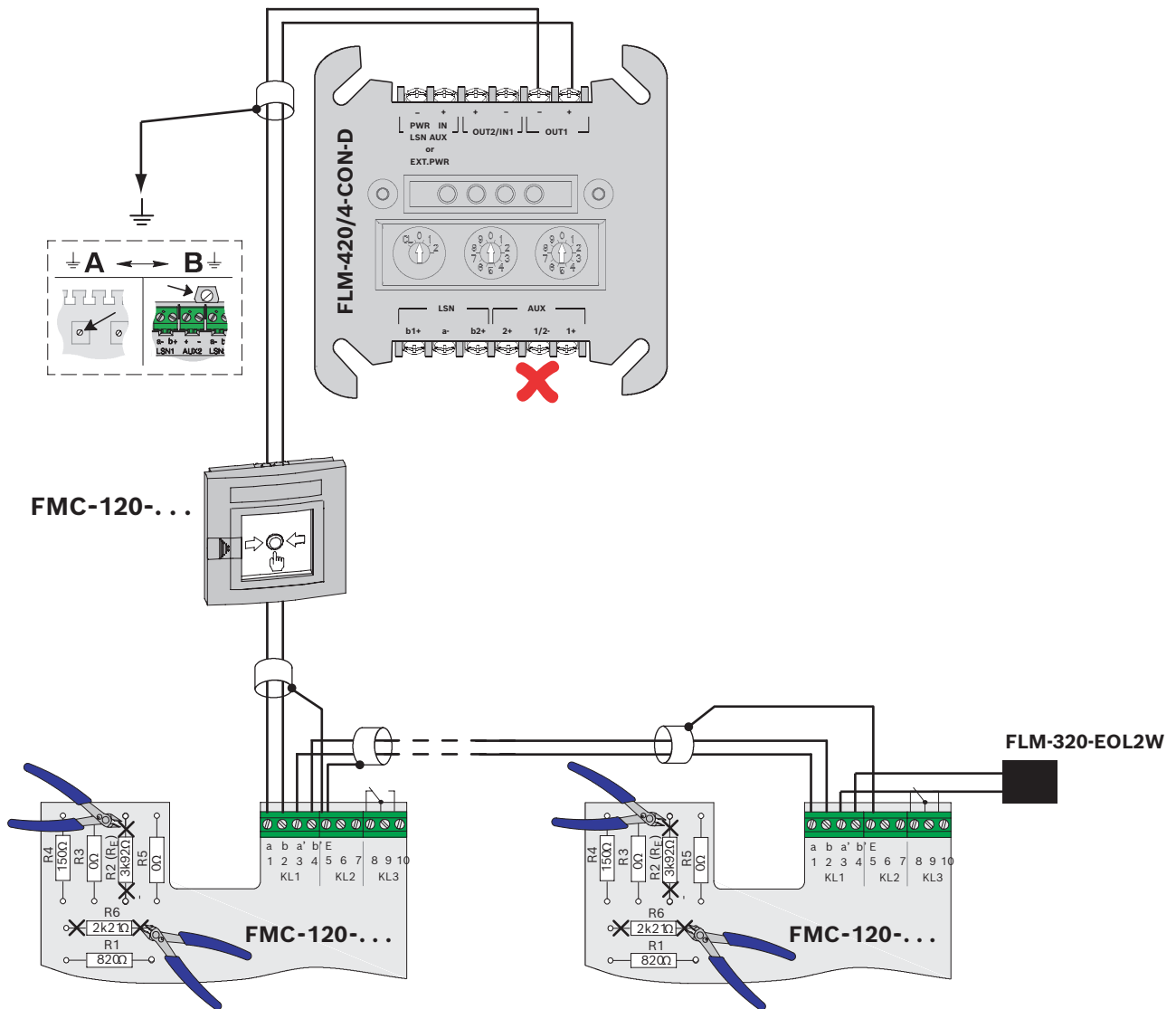


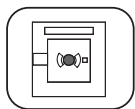


FMC-120-DKM-G-R FMC-120-DKM-G-Y  
 FMC-120-DKM-H-R FMC-120-EST-G-B  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B

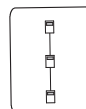


ELS

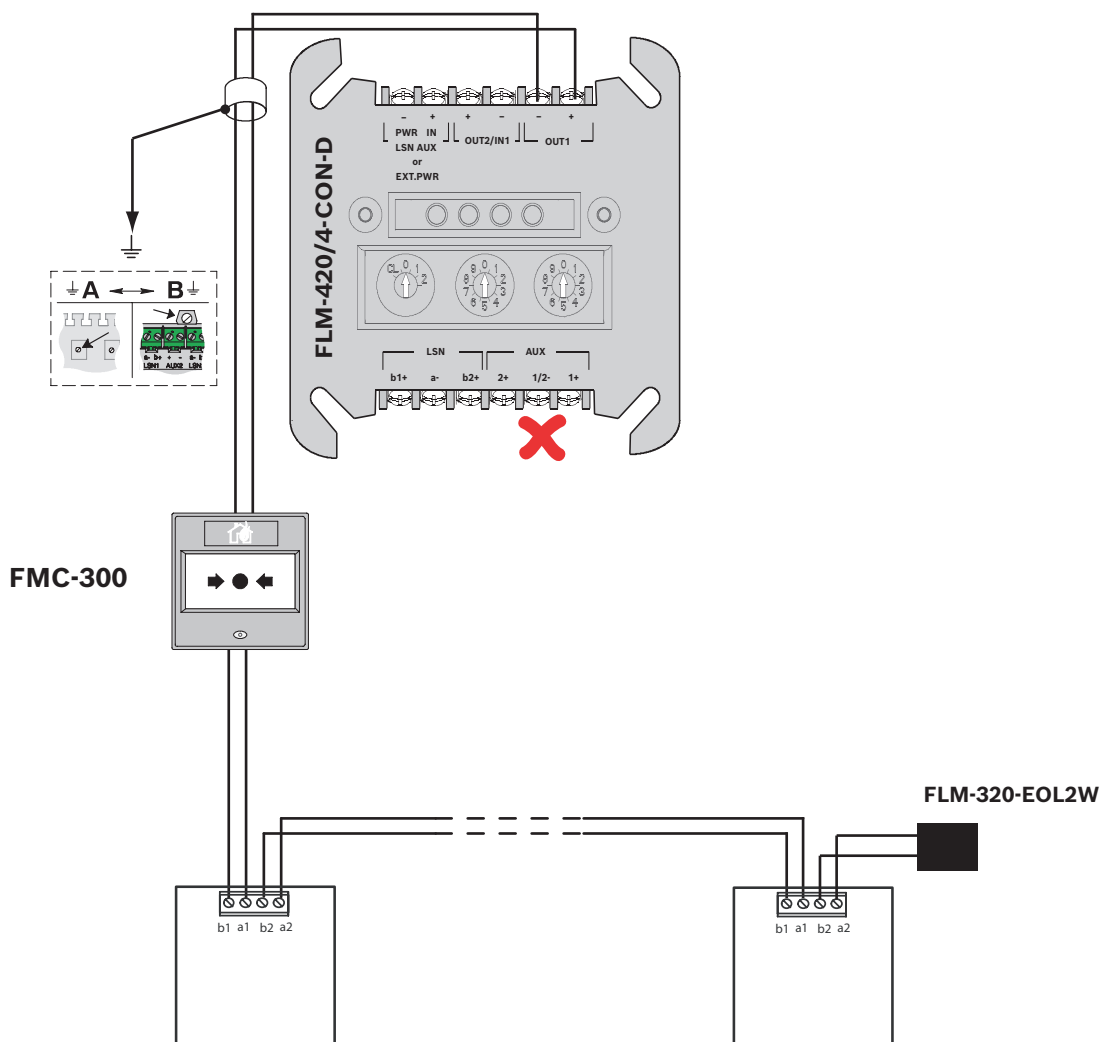




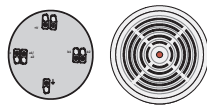
FMC-300



ELS



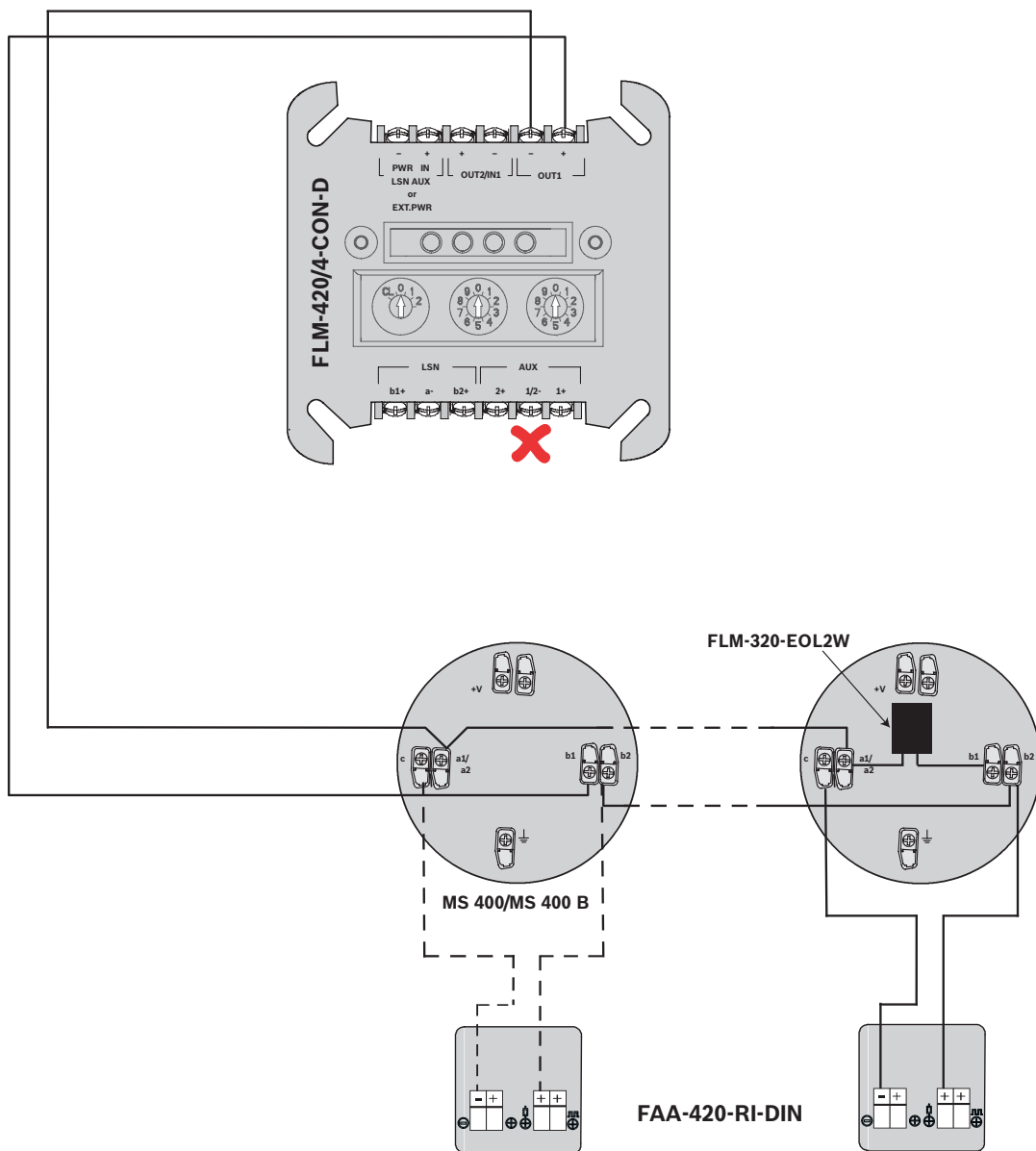




MSS 400, MSS 400 B  
 FCH-320-T320  
 FCH-T320-R470, FCH-T320-FSA  
 FCP-O320, FCP-O320-R470  
 FCP-OC320, FCP-OC320-R470  
 FCP-OT320, FCP-OT320-R470



ELS

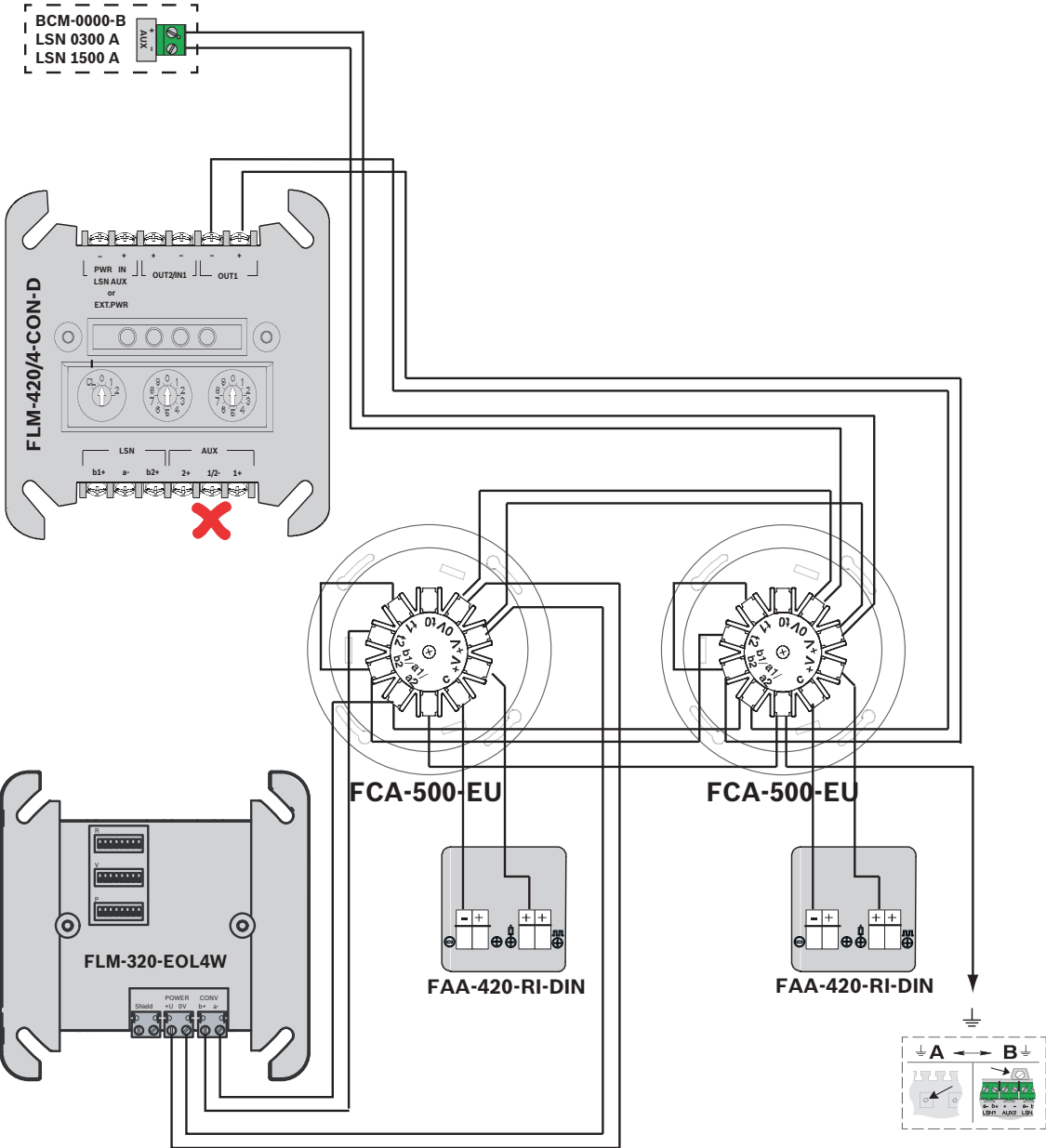


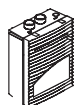


FCP-500



ELS

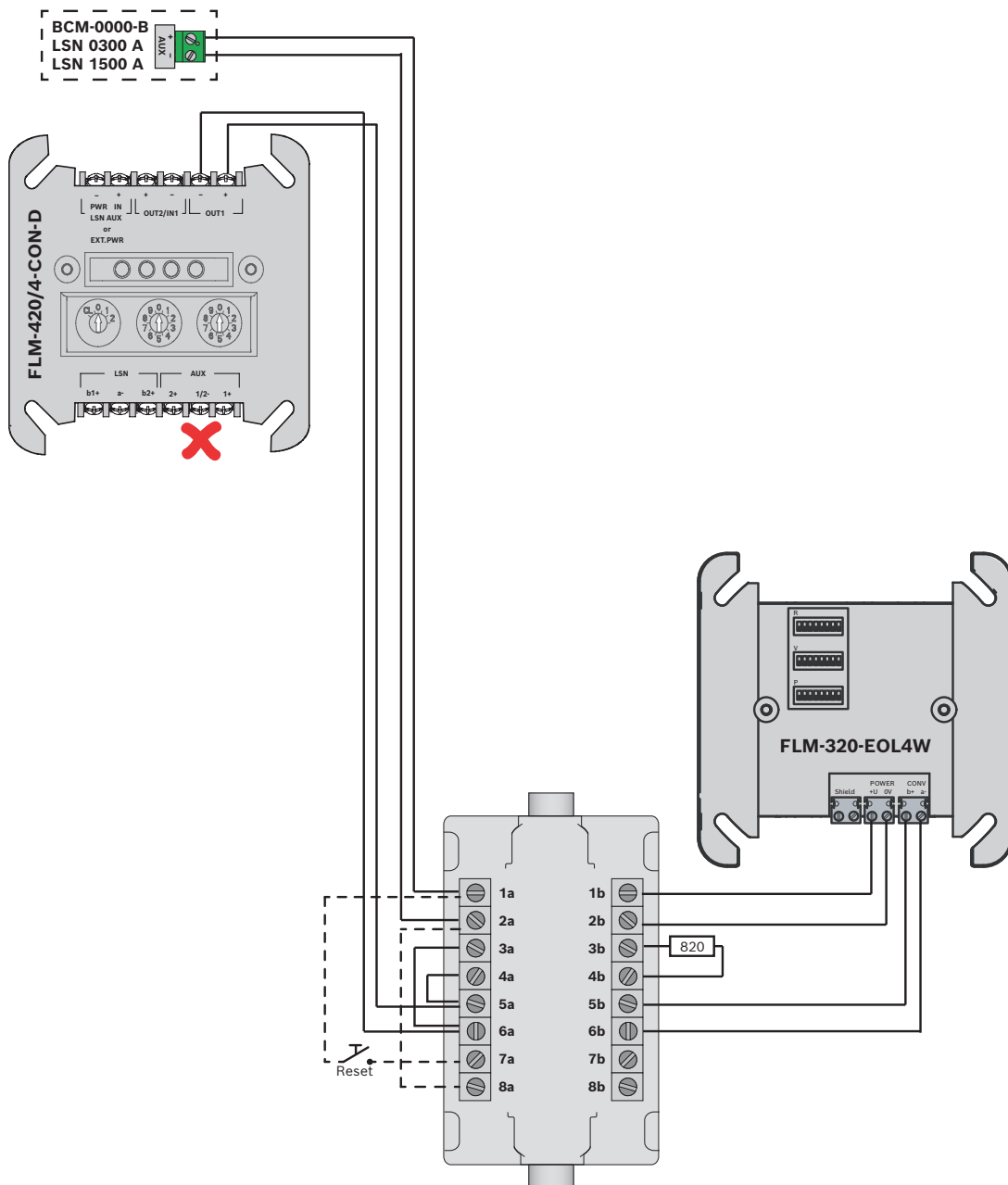


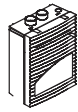


FCS-320-TM Series

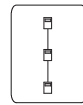


ELS



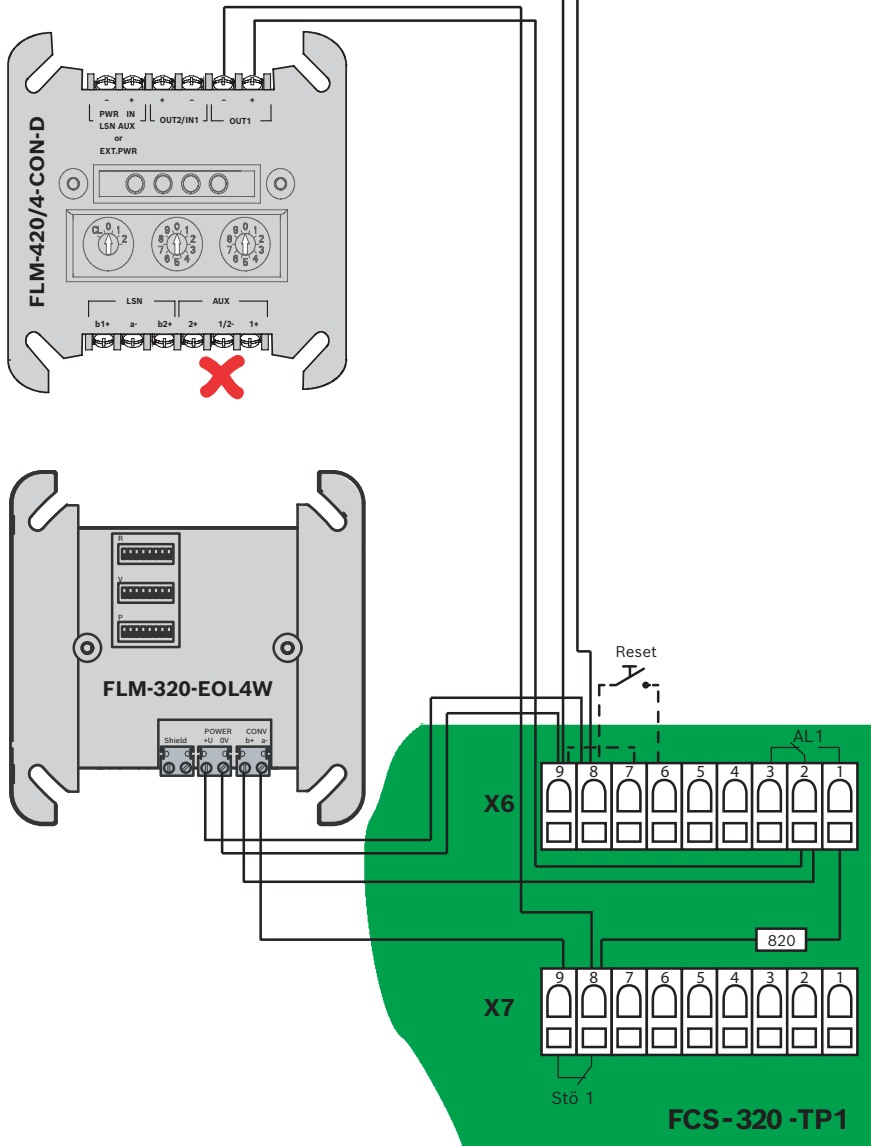


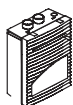
FCS-320-TP Series



ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



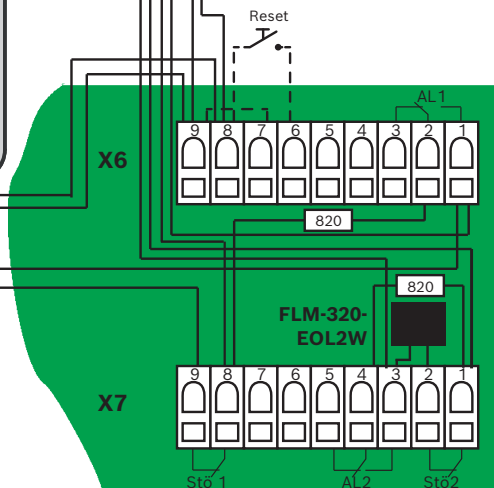
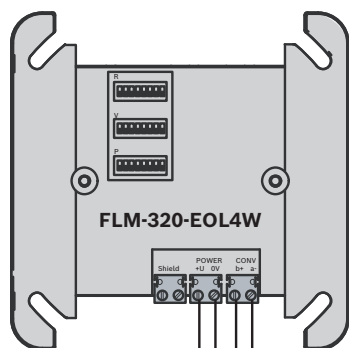
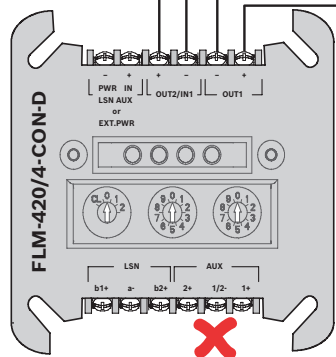


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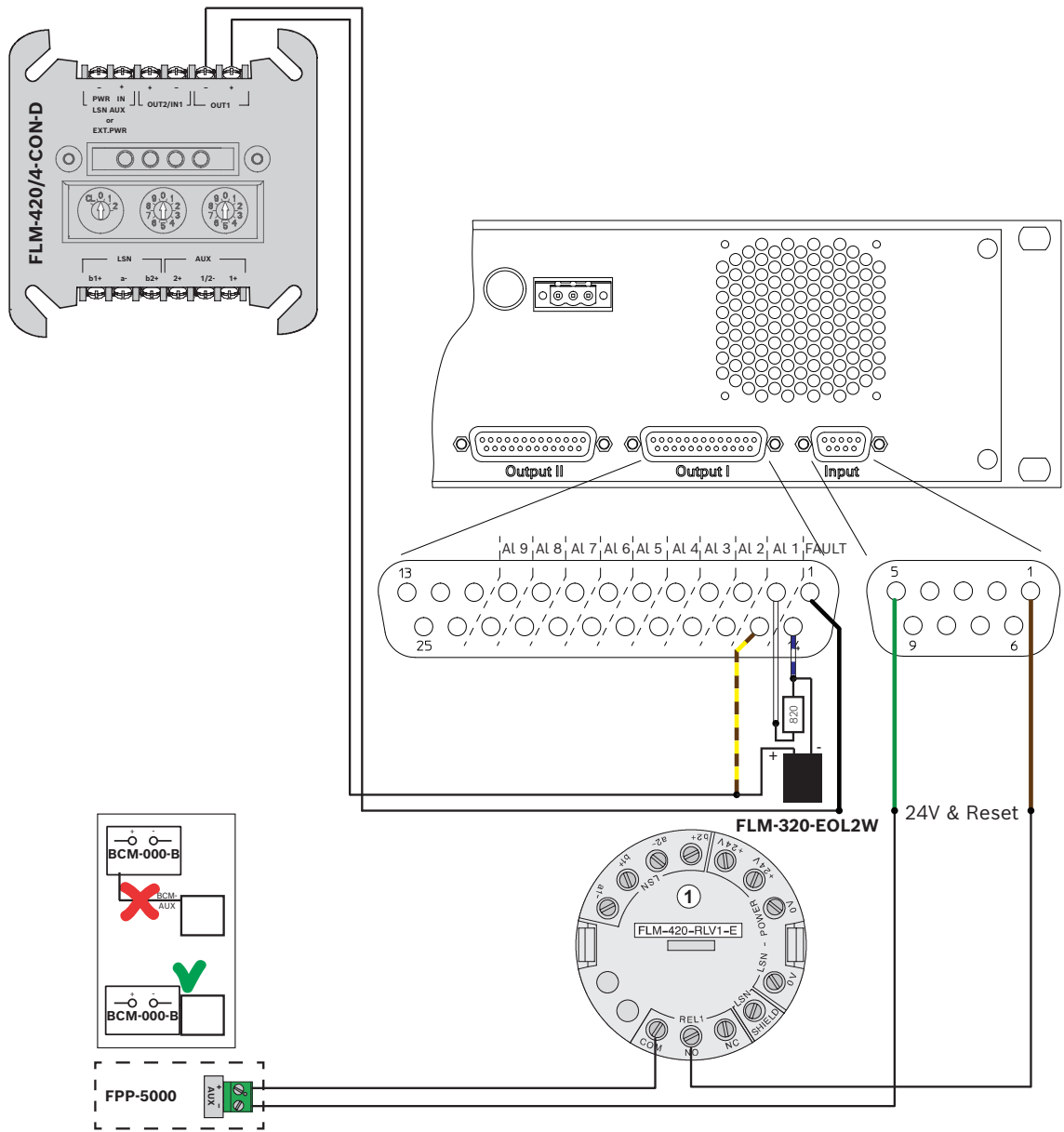
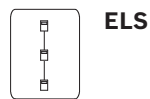


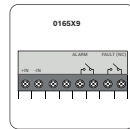
ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A

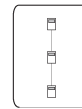


FCS-320-TP2

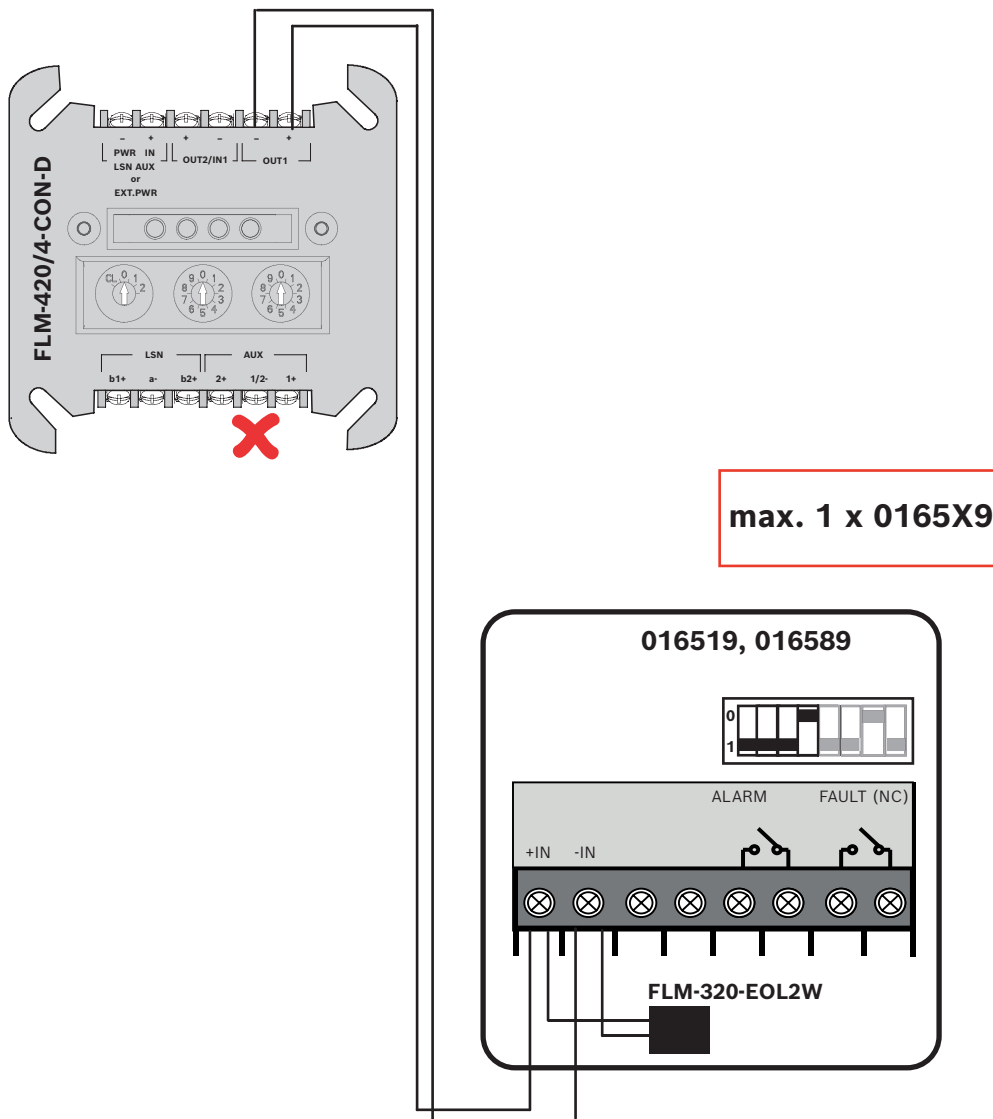


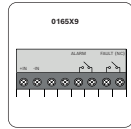


**016519, 016589**  
**IR3 Flame Detector**

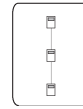


**ELS**

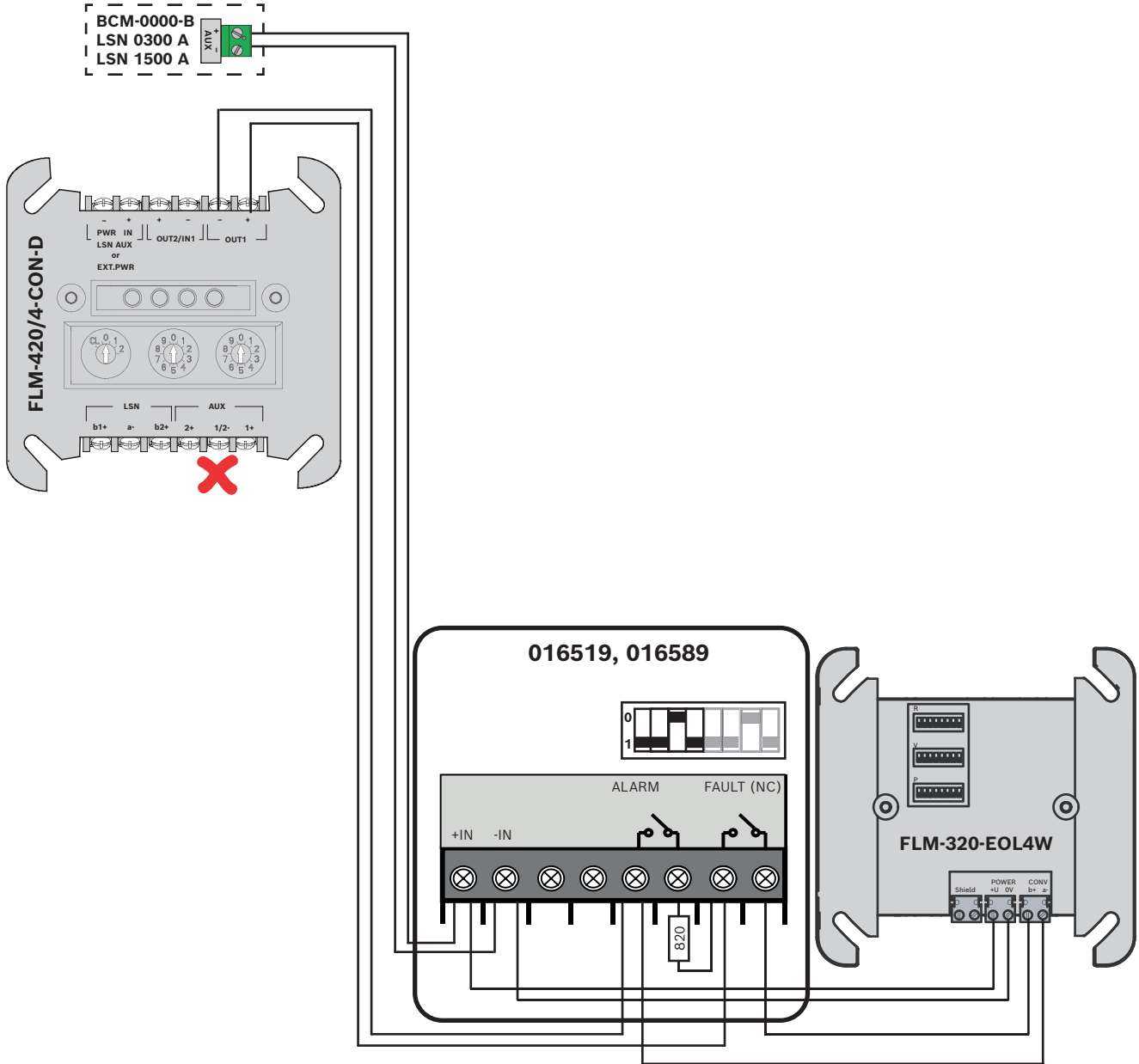




016519, 016589  
IR3 Flame Detector



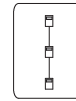
ELS



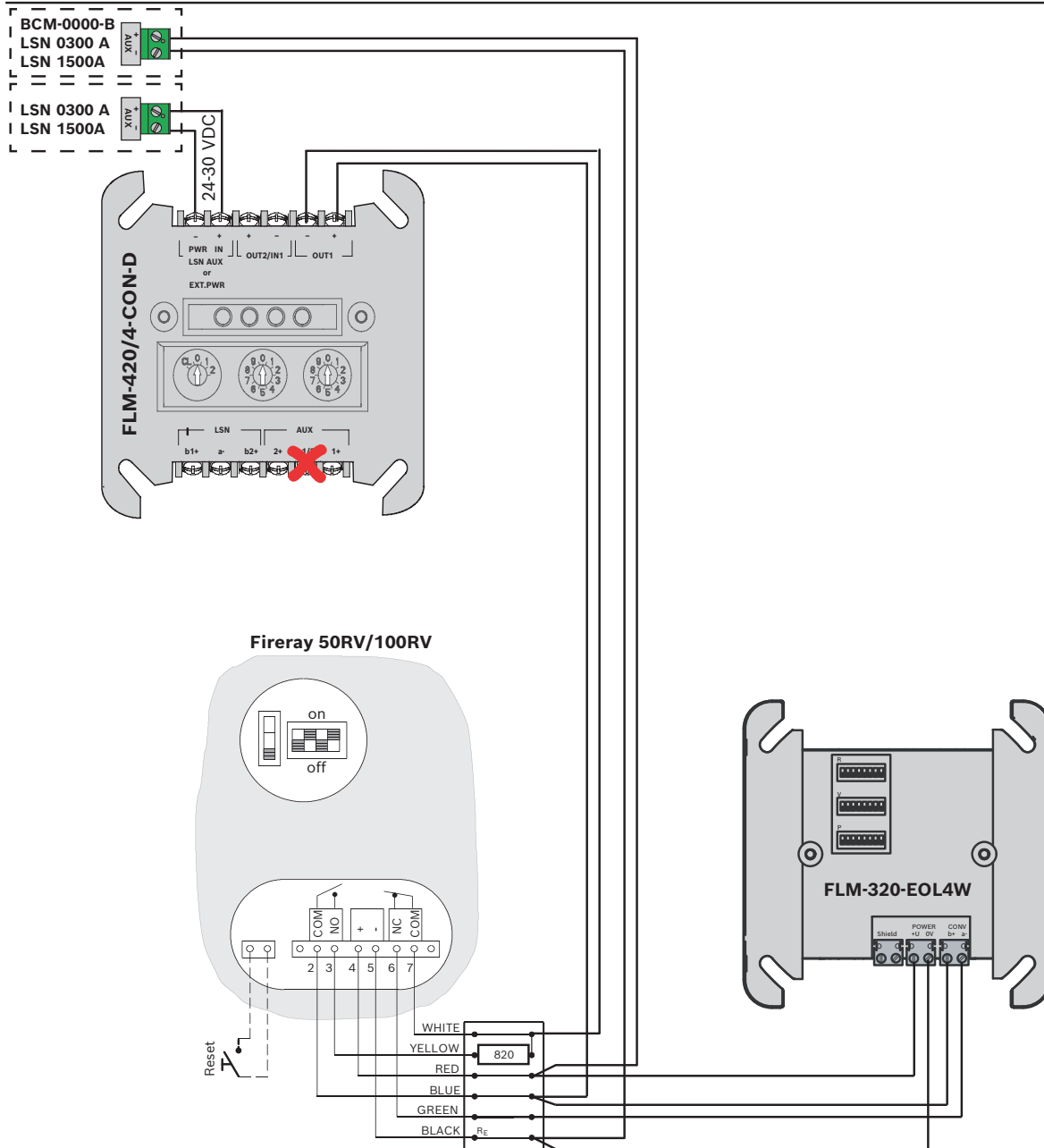




**Fireray 50RV  
Fireray 100RV**



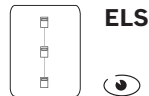
**ELS**



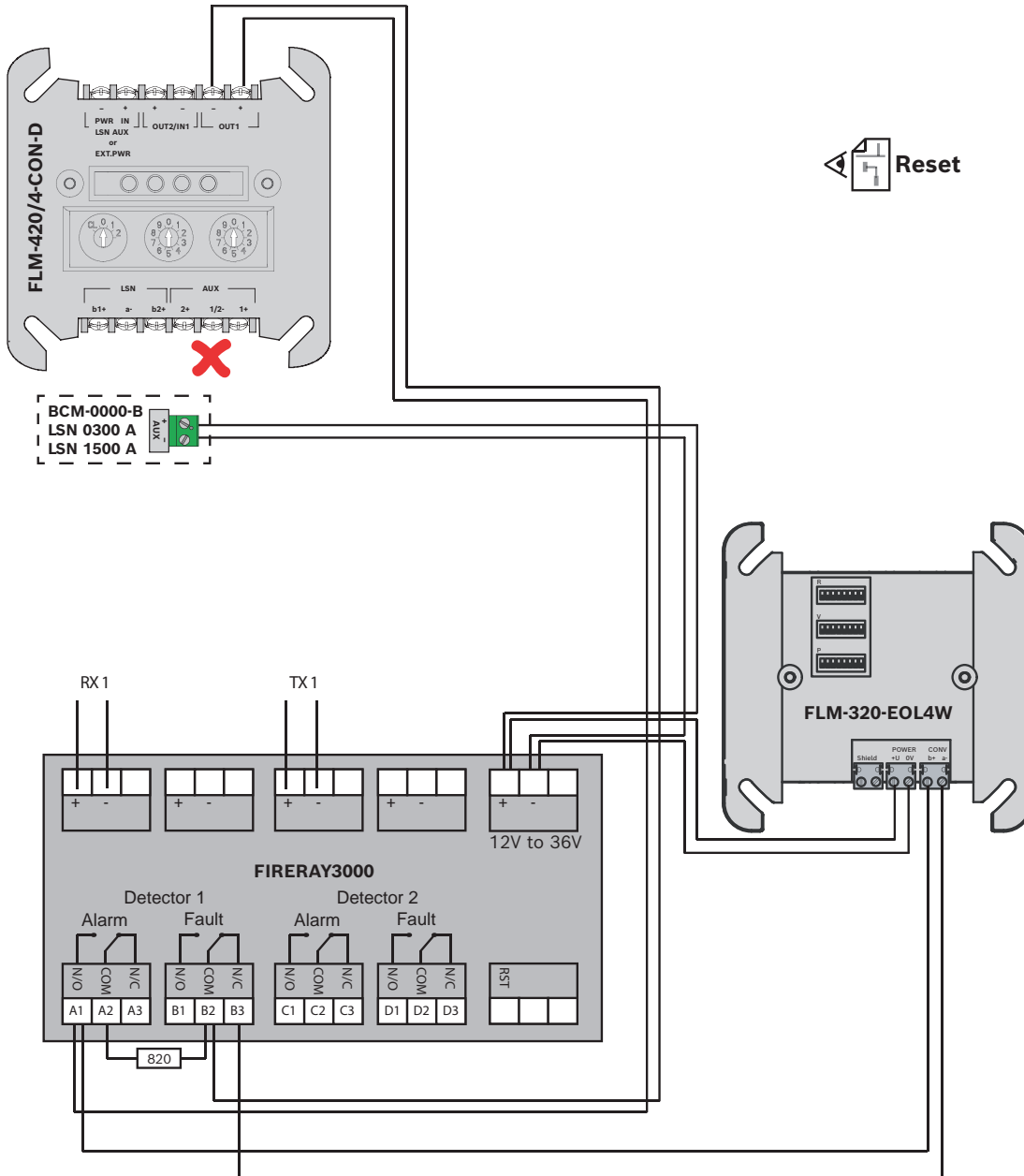


**FIRERAY3000**

1 x

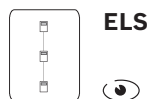


**ELS**

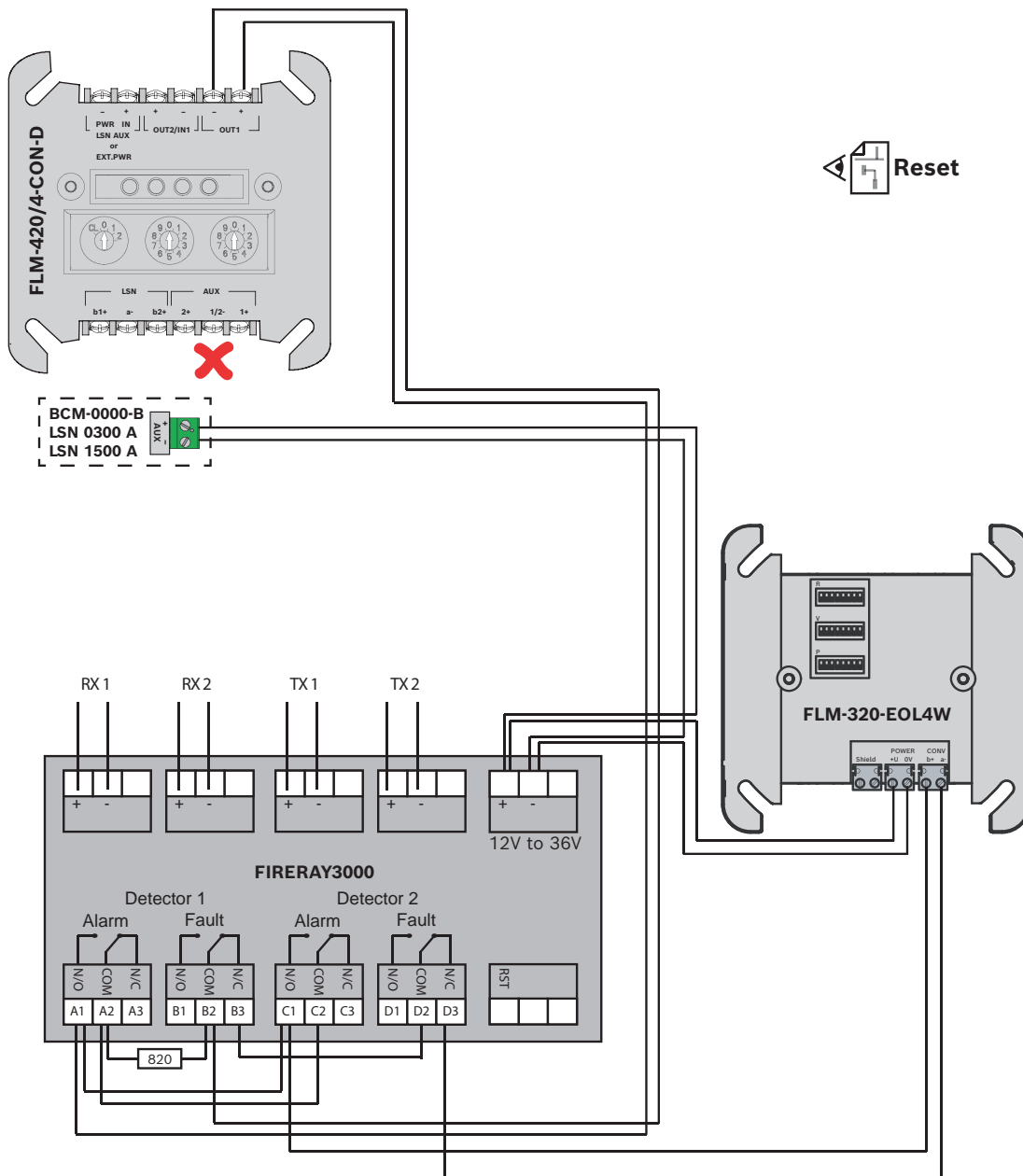




**FIRERAY3000**  
2 x  **OUT1**



**ELS**

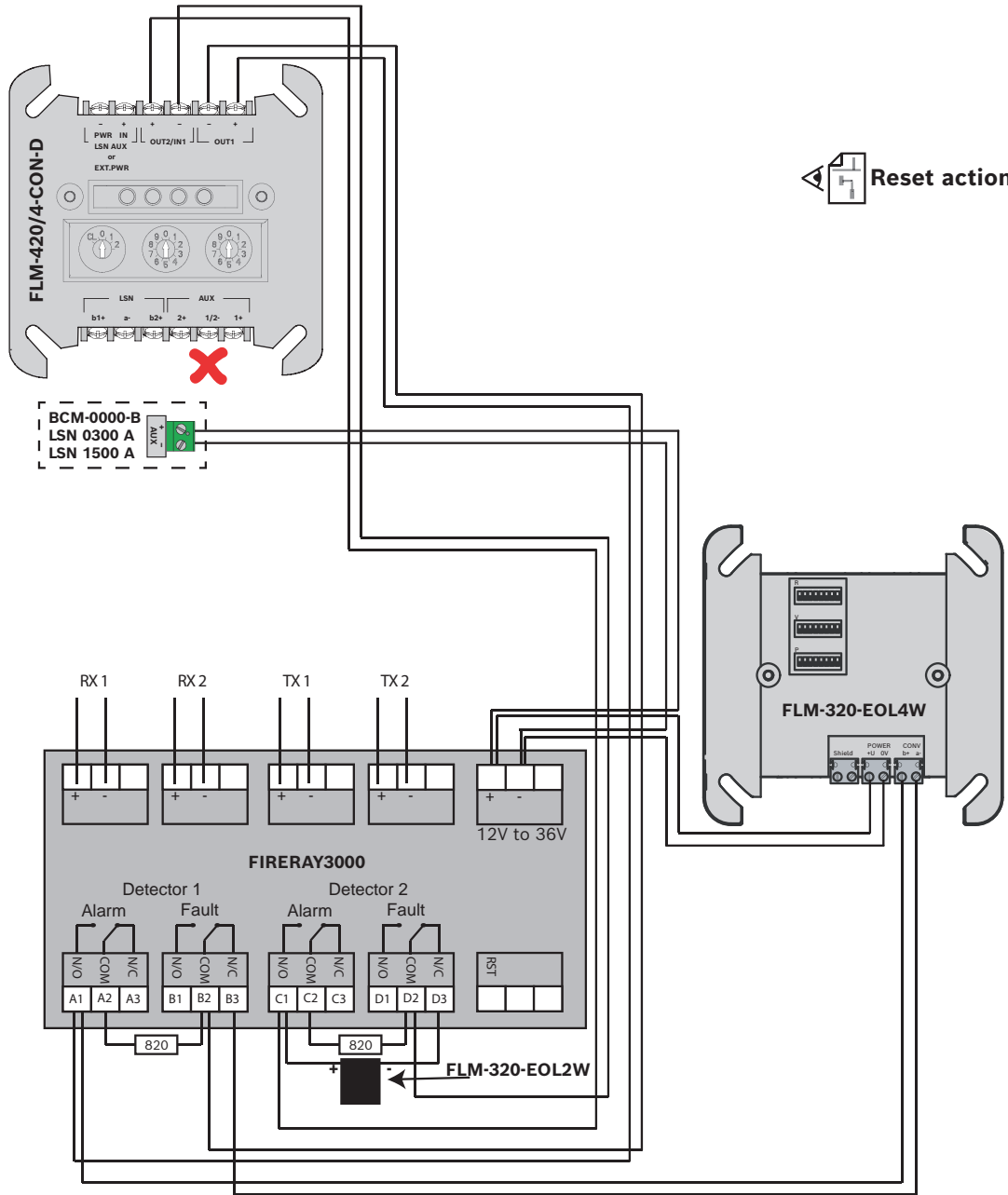




**FIRERAY3000**  
2 x **OUT1+2**



**ELS**



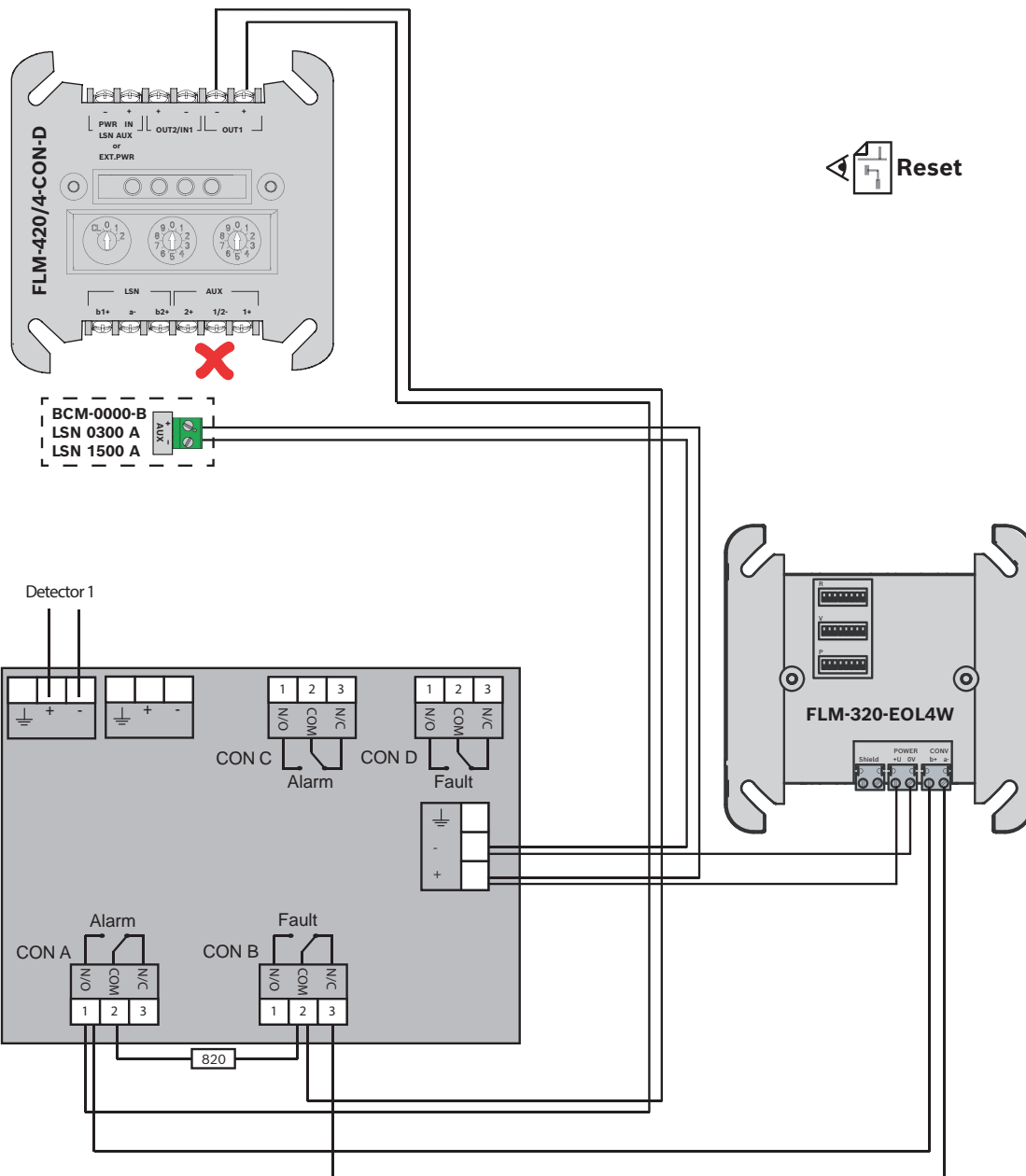


**FIRERAY5000**

1 x 



**ELS**



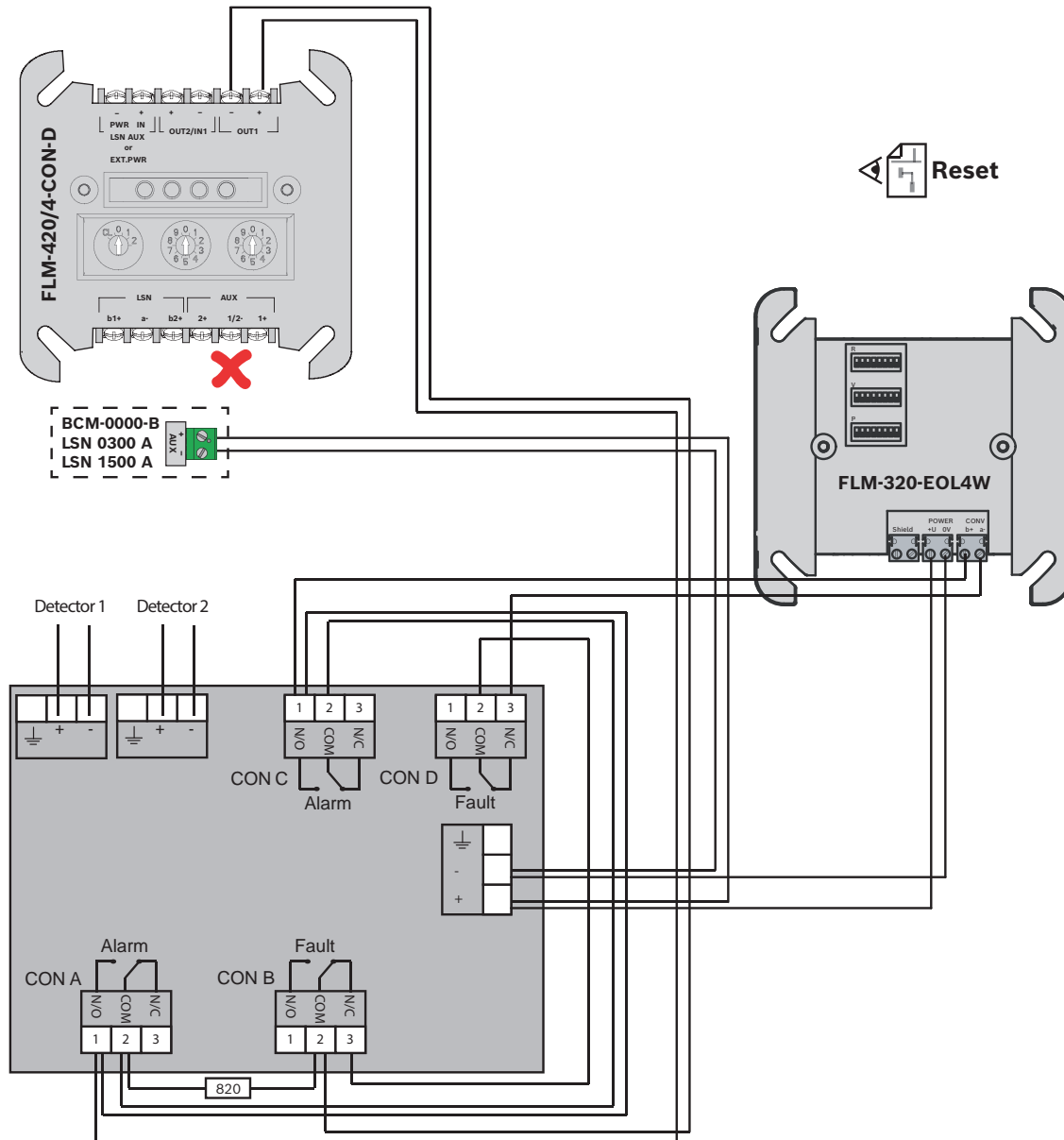


**FIRERAY5000**

2 x  **OUT1**

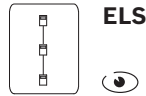


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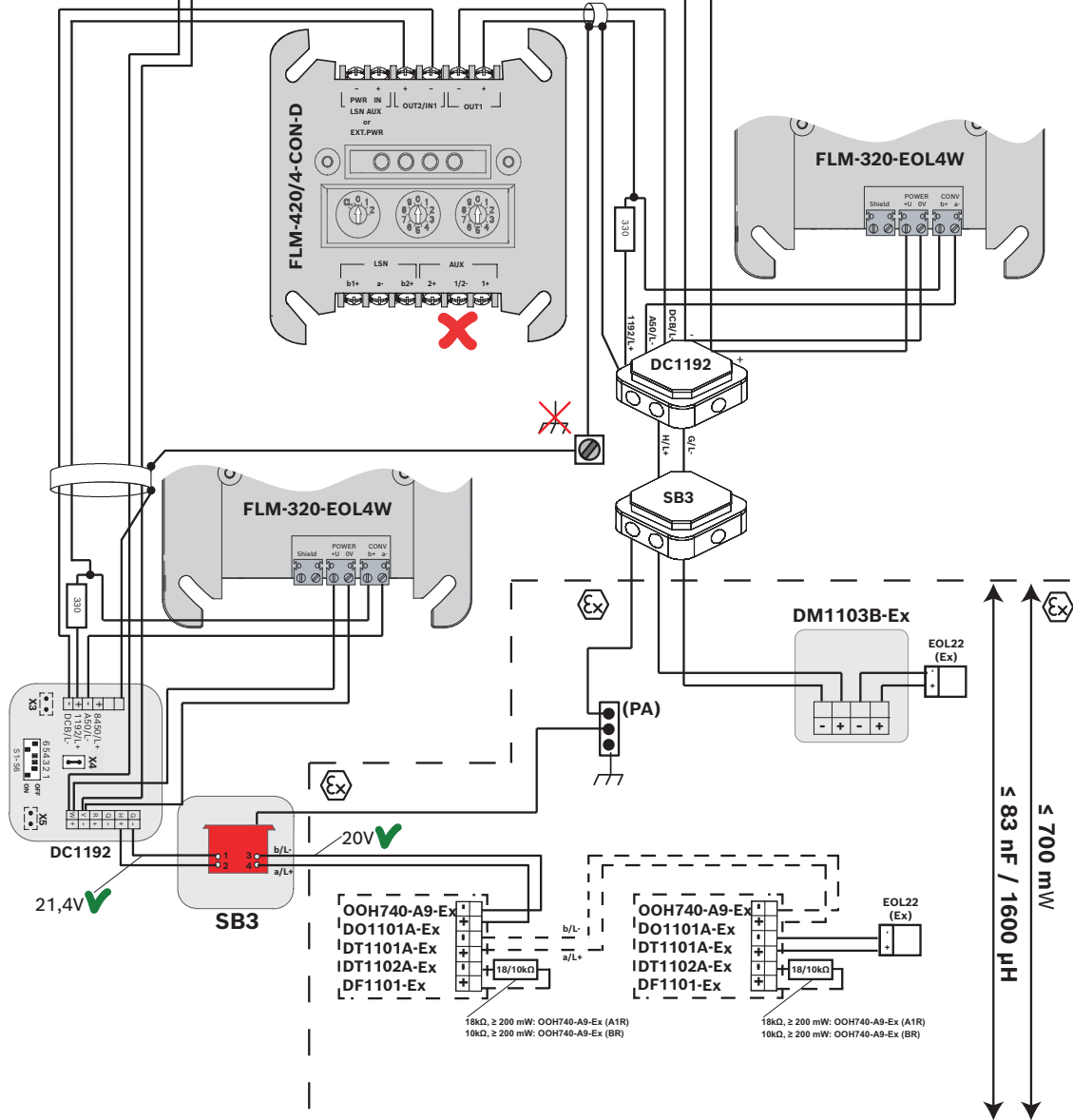


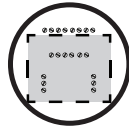
DC1192, SB3  
 OOH740-A9-Ex  
 DO1101A-Ex  
 DT1101A-Ex/DT1102A-Ex  
 DF1101-Ex  
 DM1103B-Ex



BCM-0000-B  
 LSN 0300 A  
 LSN 1500 A

BCM-0000-B  
 LSN 0300 A  
 LSN 1500 A

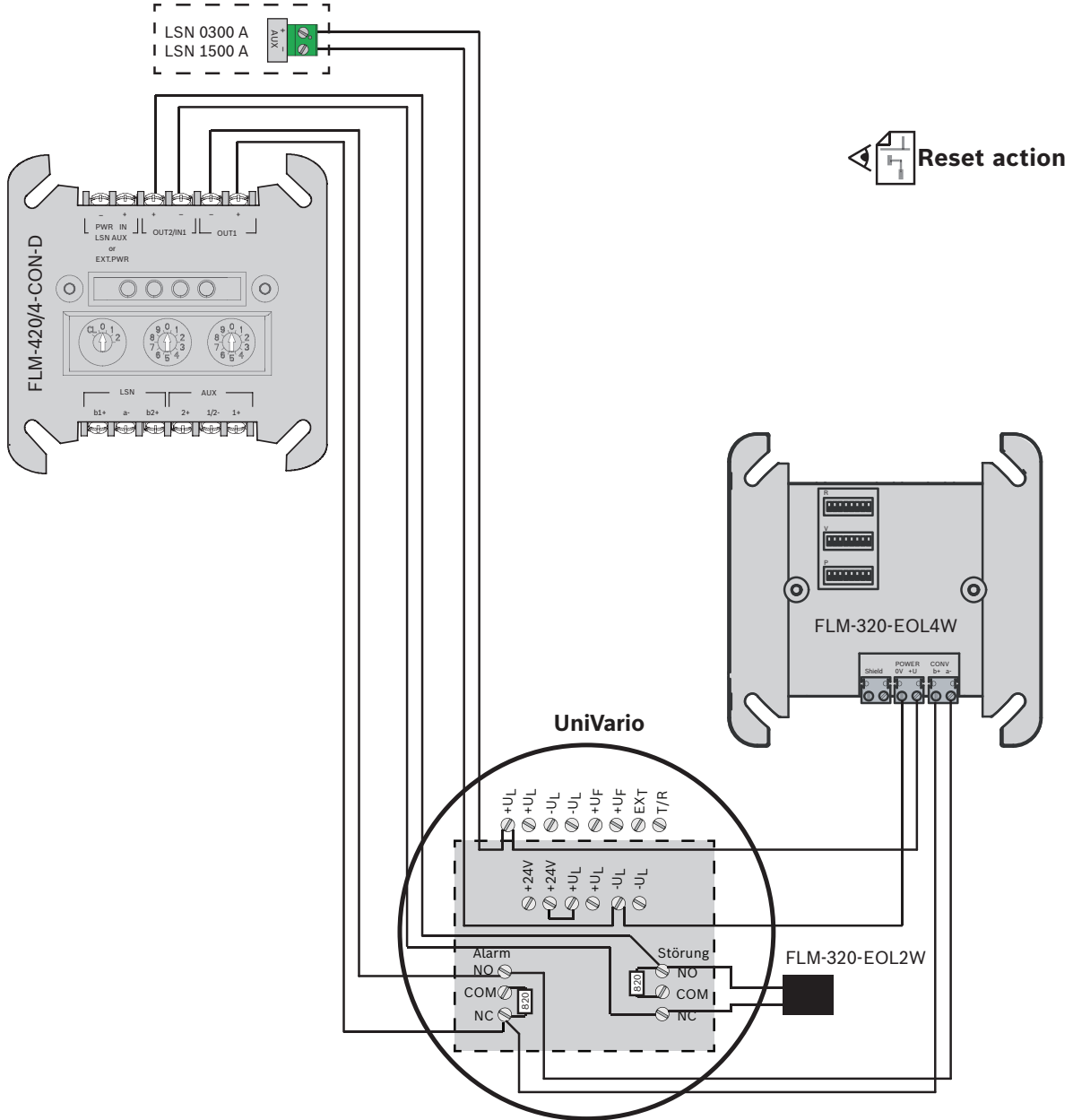




UniVario WMX5000  
 UniVario FMX5000  
 UniVario KMX5000



ELS





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