



**BOSCH**

## **AVENAR panel series**

**nl**

Bekabelingshandleiding





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# 1 History

## 1.1 1.0

Creation

## 1.2 2.0

### Changed

ADW-535-2 | ASD-535-2 -> FLM-420/4-CON (correction, shield correction)

ADW 535-1 | ASD-532 | ASD 535-1 | OSID | thefirebeam -> FLM-420/4-CON (shield correction)

FAS-420 | FAS-420-TM-> LSN 0300 A (shield correction)

FCS-320-TM | FCS-320-TP | FCS-320-TP1 | FBF 100 -> LSN 0300 A (shield correction)

Fireray50RV/100RV | FIRERAY3000 | FIRERAY5000 (shield deleted)

FLM-420-O1I1 -> LSN 0300

FCS-320-TP2 -> FLM-420/4-CON, CZM 0004 A (power supply)

FCS-LHD-2 (Alarmline II) -> FLM-420/4-CON (power supply)

DS 10 -> NZM 0002 A (ELS), FCS-320-TP2 + FLM-320-EOL4W-> CZM 0004 A, UniVario ->

FLM-420/4-CON, 3 x ELS principle (correction of swapped wires)

Editorial changes: FCS-320-TM series, FCS-320-TP1 series (symbols), User notes updated, 3 duplicates removed

Loeschanlage -> RMH 0002 A (FB2, VKA2 + Montagesatz 10DA added)

Reset action

5 x FAT4000 (shield)

MSS 300-WS -> FLM-420/4-CON, MSS 300-WS -> CZM 0004 A (3k92 according installation guide)

### Deleted

37 x 2-wire cabling -> CZM 0004 A

## 2 Opmerkingen

### 2.1 Inhoud

In dit bedradingschema wordt de aansluiting van randapparatuur op de brandmeldcentrale beschreven.

**Bericht!**

De beschreven aansluitingen zijn tevens van toepassing op AVENAR panel 2000, mits de afzonderlijke componenten door Bosch Sicherheitssysteme GmbH goedgekeurde uitbreidingen van AVENAR panel 2000 zijn.

**Bericht!**

De LSN 0300 A aansluitingen die in dit document worden beschreven, hebben ook betrekking op de module LSN 1500 A.

### 2.2 Productinformatie

- Lees de meegeleverde installatiehandleiding voor installatie-instructies bij de afzonderlijke componenten van de brandmeldcentrale.
- Meer informatie (Gebruikershandleidingen, Netwerkhandleiding, systeeminformatie) is beschikbaar op internet op: [www.boschsecurity.com](http://www.boschsecurity.com)

### 2.3 Belangrijke opmerkingen

- Gebruik uitsluitend installatiemateriaal dat door Bosch Security Systems wordt aanbevolen.
- Draag bij soldeerwerk altijd een aardingspolsband.
- Montage- en installatiewerkzaamheden mogen uitsluitend worden uitgevoerd door gekwalificeerd personeel.
- Houd rekening met aansluitvoorschriften van regionale overheden/instellingen.

**Gevaar!**

Het aanraken van spanningvoerende onderdelen kan fataal zijn.  
Sluit de spanningstoevoer af voordat u gaat installeren.

**Bericht!**

Als een afgeschermd draad voor de LSN-kabel moet worden aangesloten, moet u de LSN-specificaties volgen.

- Verbind de afgeschermd LSN-draad aan de kant van de centrale met de toegewezen functionele aardeverbinding. De afscherming van beide zijden (begin en einde) van de lus moet zijn aangesloten op de centrale
- Lus de kabelafscherming door bij alle LSN-randapparaten met gebruikmaking van de geboden aansluitingen
- Verdere verbindingen van de LSN-kabelafscherming zijn niet toegestaan, hetzij met aardeverbindingen op enige locatie of enig ander elektrisch potentiaal

### 2.4 Opmerkingen voor de gebruiker

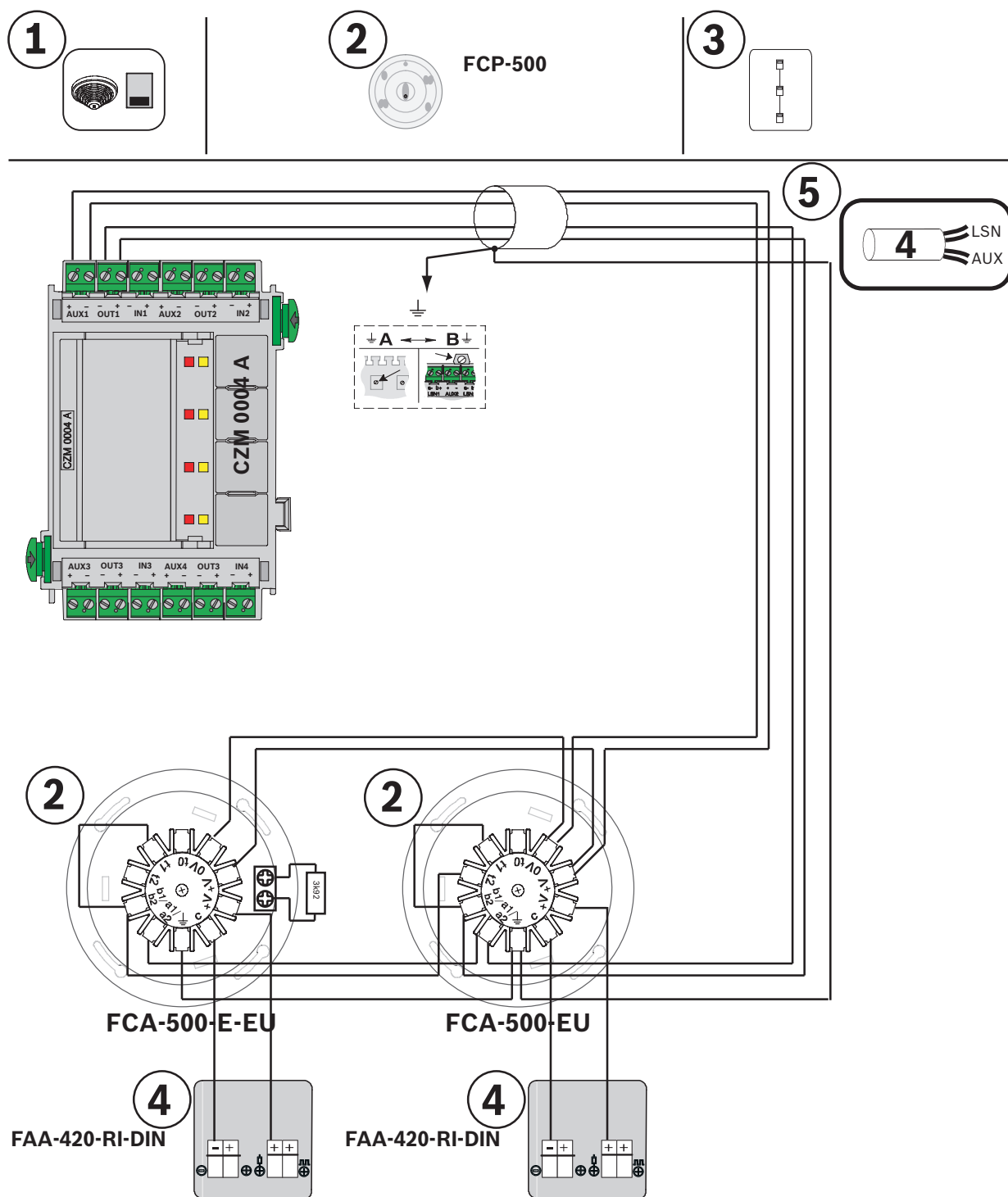
Het bedradingschema is als volgt samengesteld:

- Hoofdstuk Bekabeling is gesorteerd op het apparaat waarop een randapparaat is aangesloten. Een bedrading geeft de directe verbinding van een apparaat met een ander apparaat aan (geen trapsgewijze verbindingen). Afscherming wordt gewoonlijk niet aangegeven in de bedradingen. In de volgende bedrading ziet u een voorbeeld van de afscherming.
- Zoek een verzameling met alle bedradingen waaraan extra EOL-modules zijn toegevoegd voor bewaking van onderbreking door lekstroom in de sectie EOL.

Maak tevens gebruik van de volgende bronnen om de vereiste bedrading te vinden:














- de inhoudsopgave aan het begin van het hoofdstuk Bekabeling en aan het begin van de gedeelten Functionele modules, Interfacemodules en EOL.
- de Index (taalonafhankelijk)
- en de zoekfunctie in volledige tekst.

Zie het bekabelingsvoorbeeld hieronder:















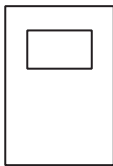




1	Hoofdstukpictogrammen ( <i>Hoofdstukpictogrammen, pagina 8</i> )
2	Aan te sluiten randapparaat
3	Aansluitingspictogrammen ( <i>Aansluitingspictogrammen, pagina 8</i> )
4	Optionele componenten
5	Voeding en bekabeling ( <i>Voeding en bekabeling, pagina 9</i> )

## 2.4.1 Hoofdstukpictogrammen


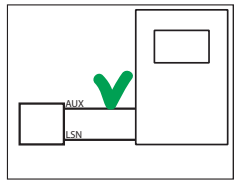
	Autom. melders		Bedienings- en displaypanelen		Printer
	Voeding		Functionele modules		Brandweer Service Apparatuur
	Interfacemodules		Brandblussystemen		Handbrandmelders
	Signaalgevers		Deursturing		Transmissiesystemen
	Netwerken				

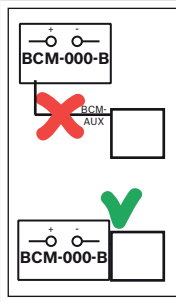
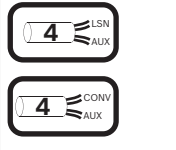
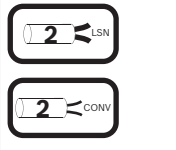


## 2.4.2 Aansluitingspictogrammen

	Bewaakte/niet-bewaakte aansluiting van conventionele randapparatuur of bewaakte/niet-bewaakte conventionele uitgangen van signaleringsapparaten. (EOL-weerstand in CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A aansluiting of droog contact aansluitingen met interfacemodule.)		In deze aansluiting van conventionele randapparatuur kan een feedbacklijn worden aangesloten. / Het doorgestreepte symbool betekent dat een feedbacklijn niet noodzakelijk of niet aanbevolen is. (FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A aansluitingen) Een ingangslijn kan ook worden gebruikt als feedbacklijn (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1...).		Redundantie
	Lusbedrading		Lusbedrading met redundant element		Steeklijnbedrading
	Redundante steeklijnbedrading		Steeklijnbedrading met redundant element		Redundante steeklijnbedrading met redundant element
ELS	Deze bedrading is conform VdS 2543. ELS staat voor Extended Line Supervision (uitgebreide		Deze lusbedrading is conform VdS 2543. De bedrading biedt ELS. Extra EOL-modules zijn niet nodig.		Synchronisatie

	<p>lijnbewaking), hetgeen wil zeggen bewaking van kortsluiting en onderbreking door lekstroom. Deze bedrading beschikt over ELS.</p> <p>U vindt alle bedradingen waaraan extra EOL-modules voor bewaking van onderbreking door lekstroom zijn toegevoegd in het hoofdstuk EOL.</p> <p>Kortsluiting wordt herkend door de volgende modules: LSN 0300 A, LSN 1500 A en BCM-0000-B bij gebruik van FPP-5000-TI13.</p>				
	Omgevingen met explosiegevaar		Centrale		Zelfstandige centrale
	Zelfstandige centrale met redundantie		Niet toegestaan		Voor meldersokkels: de bedrading is alleen geldig voor de meldersokkel waarin de melder is geïnstalleerd.
-----	Optionele bedrading	_____	Verplichte bedrading	EN 54-2, DIBT etc.	Indien conformiteit met deze norm is vereist, gebruikt u de gespecificeerde bedrading.

### 2.4.3 Voeding en bekabeling

	Extra voeding
	<b>Voeding via de centrale</b> Aparte voeding van het element is mogelijk.

	<p><b>Voeding via de centrale / Externe voeding</b></p> <p>Het element wordt gevoed door een BCM-0000-B. Het element moet op één lijn liggen met de behuizing van het product dat de BCM-0000-B bevat.</p>
	<p>De bedrading is een 4-draads aansluiting. Anders is het een 2-draads aansluiting.</p>
	<p>De bedrading is een 2-draads aansluiting.</p>
	<p>Zie de bedrading in deze handleiding.</p>
	<p>Raadpleeg de technische documentatie van het aangesloten randapparaat.</p>

## 2.5

### Weerstandswaarden

De volgende tabel geeft een overzicht van de kleurcodering van de weerstanden. De metaalfilmweerstand die met het product zijn meegeleverd, hebben 5 kleurbanden die de weerstandswaarde aanduiden.

Kleur	1. band	2. band	3. band	4. band (vermenigvuldigingsfactor)	5. band (tolerantie)
Zilver				$10^{-2}$	$\pm 10\%$
Goud				$10^{-1}$	$\pm 5\%$
Zwart		0	0	$10^0$	
Bruin	1	1	1	$10^1$	$\pm 1\%$
Rood	2	2	2	$10^2$	$\pm 2\%$
Oranje	3	3	3	$10^3$	$\pm 0.05\%$
Geel	4	4	4	$10^4$	$\pm 0.02\%$
Groen	5	5	5	$10^5$	$\pm 0.5\%$
Blauw	6	6	6	$10^6$	$\pm 0.25\%$
Paars	7	7	7	$10^7$	$\pm 0.1\%$
Grijs	8	8	8	$10^8$	$\pm 0.01\%$
Wit	9	9	9	$10^9$	

Conform DIN EN 60062:2017



Oranje — wit — zwart — bruin — bruin: 3,9 kOhm weerstand met 1% tolerantie,  
Rood — rood — zwart — bruin — bruin: 2,2 kOhm weerstand met 1% tolerantie.

## 3 Wiring



*FPP-5000 Power supply, pagina 13*

*DIBT, pagina 15*

*Functional Modules, pagina 42*

*BCM-000-B, pagina 43*

*CZM 0004 A, pagina 45*

*ENO 0000 A/B, pagina 49*

*LSN 0300 A, pagina 56*

*NZM 0002 A, pagina 91*

*RMH 0002 A, pagina 107*

*IOS 0020 A, pagina 110*

*FPE-5000-UGM, pagina 113*

*Interface Modules, pagina 114*

*FLM-420-4/CON-D/S, pagina 115*

*FLM-420-NAC-D/S, pagina 140*

*FLM-420-RLE-S, pagina 153*

*FLM-420-RLV1-E, pagina 154*

*FLM-420-RLV8-S, pagina 155*

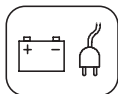
*FMF-ADP-FBF/FMF-ADP-TTY, pagina 156*

*EOL, pagina 158*

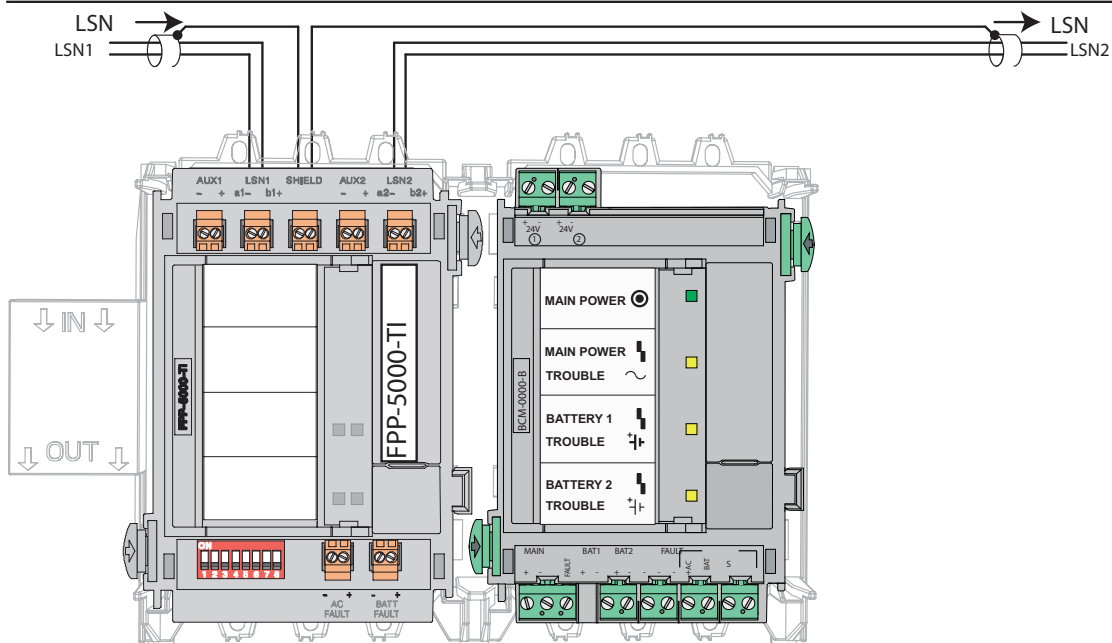
*LSN 0300 A, pagina 159*

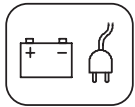
*FLM-420/4-CON-S/D, pagina 201*

### 3.1 FPP-5000 Power supply



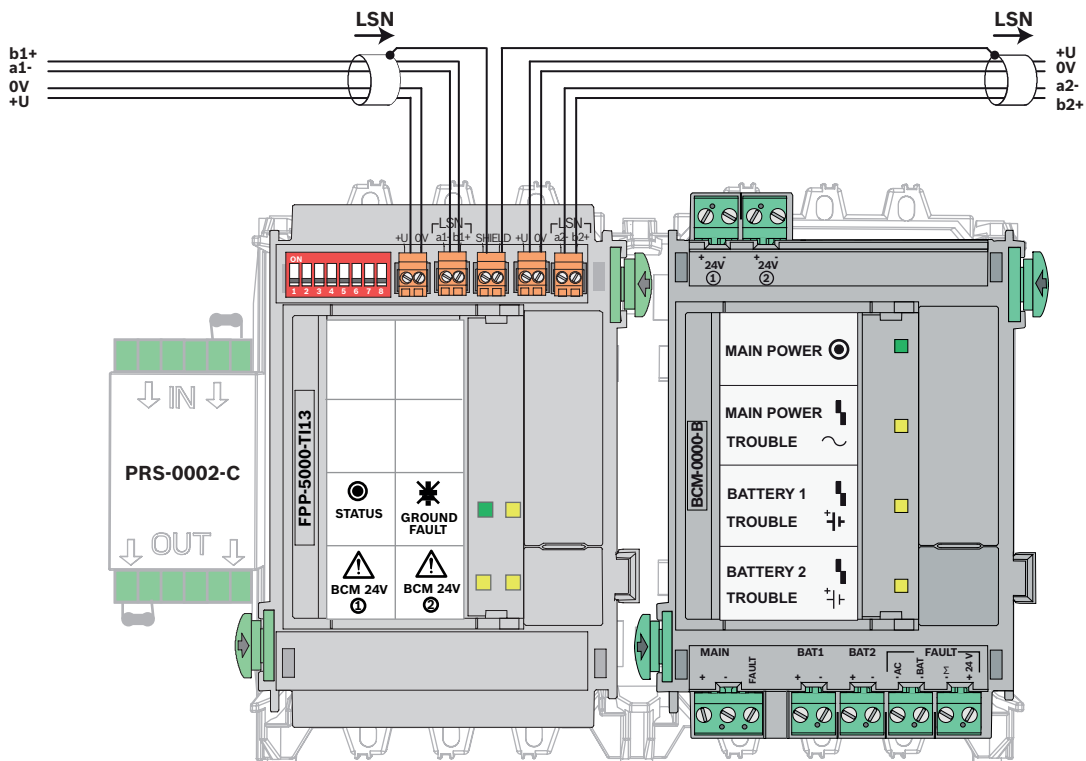
FPP-5000-TI





FPP-5000-T113

ELS VdS 2489

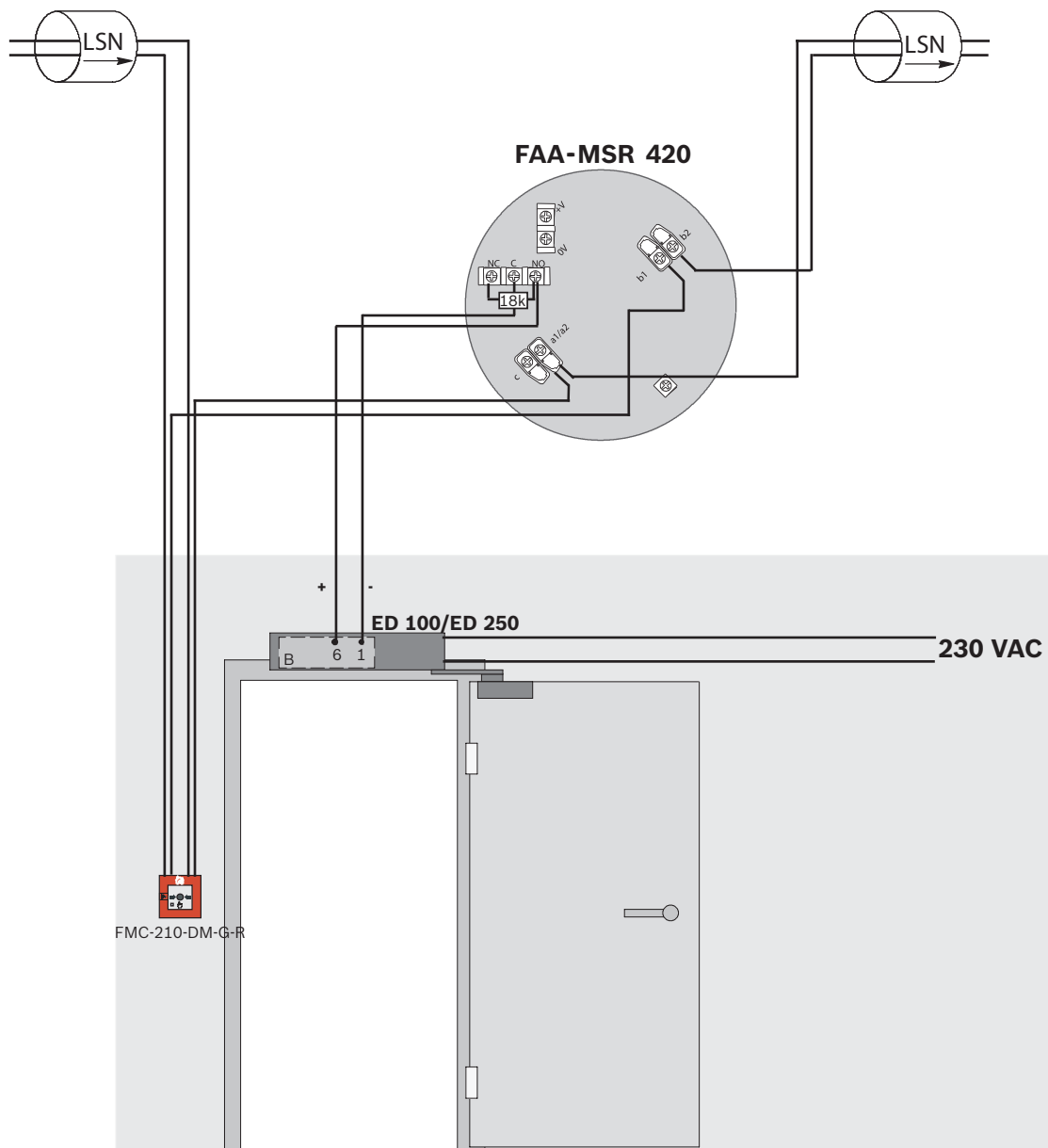


### 3.2 DIBT



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

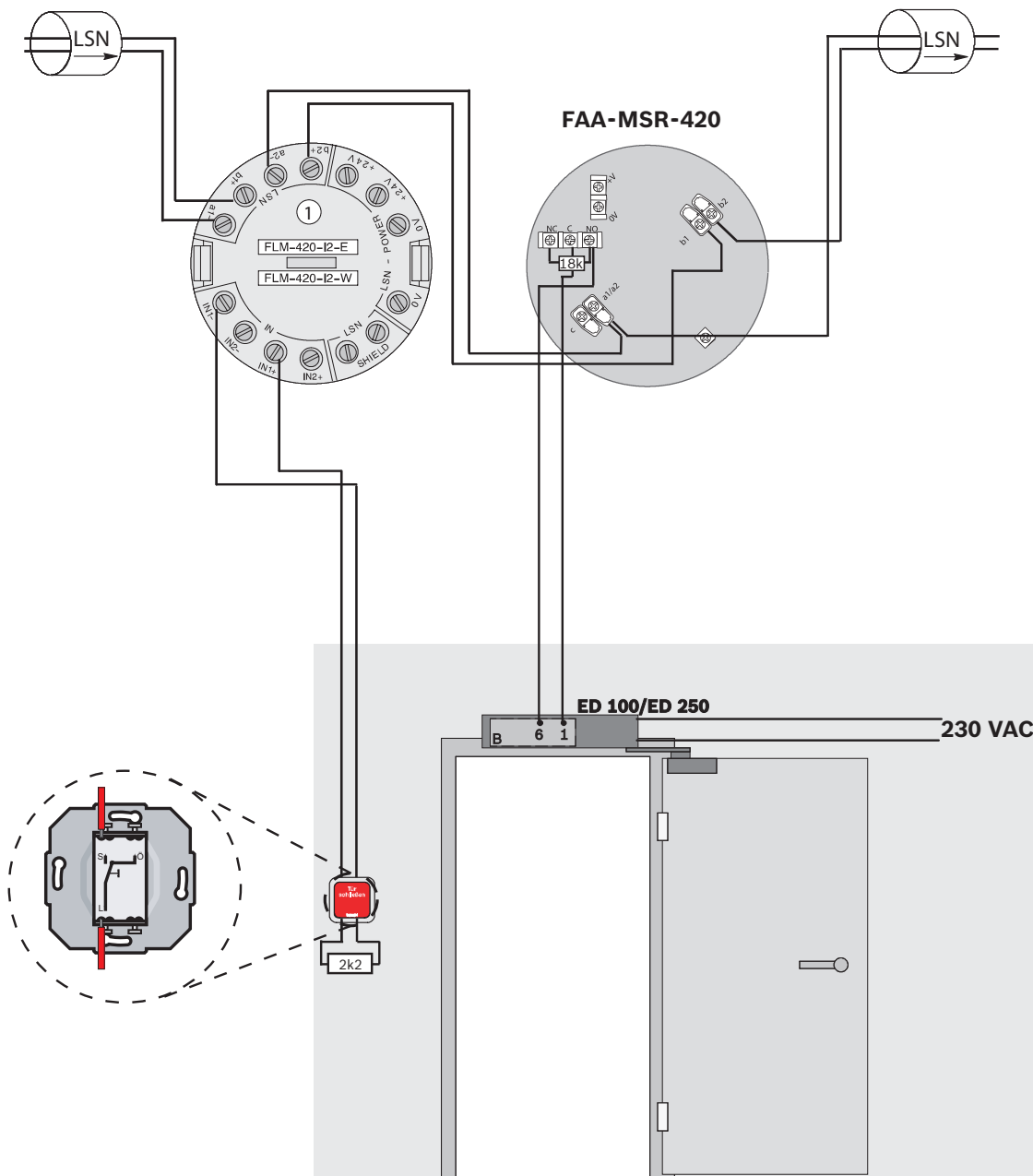
**DIBT**

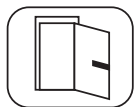




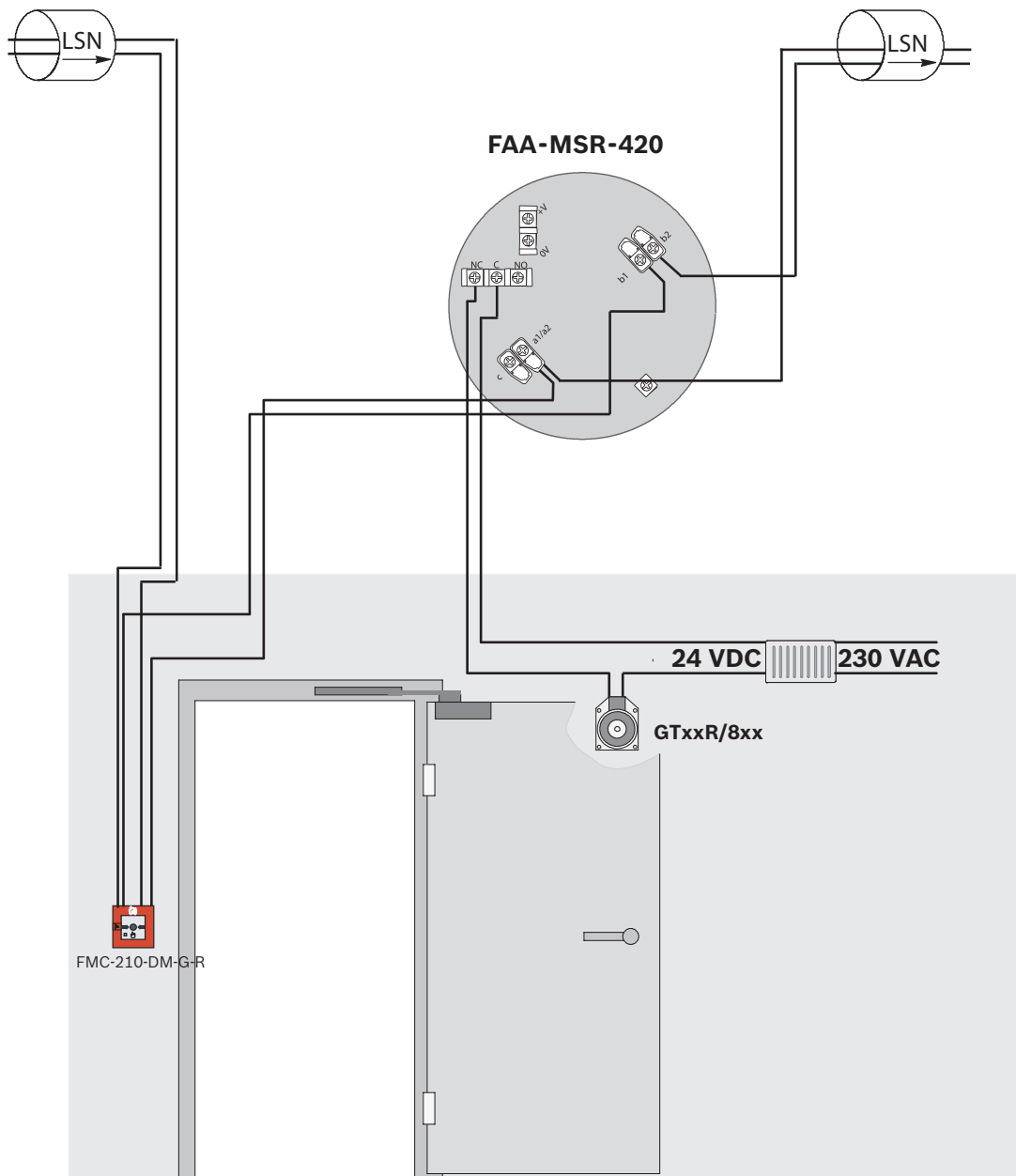
**ED 100  
ED 250  
(+Upgrade Card B)**

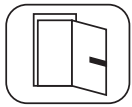
**DIBT**



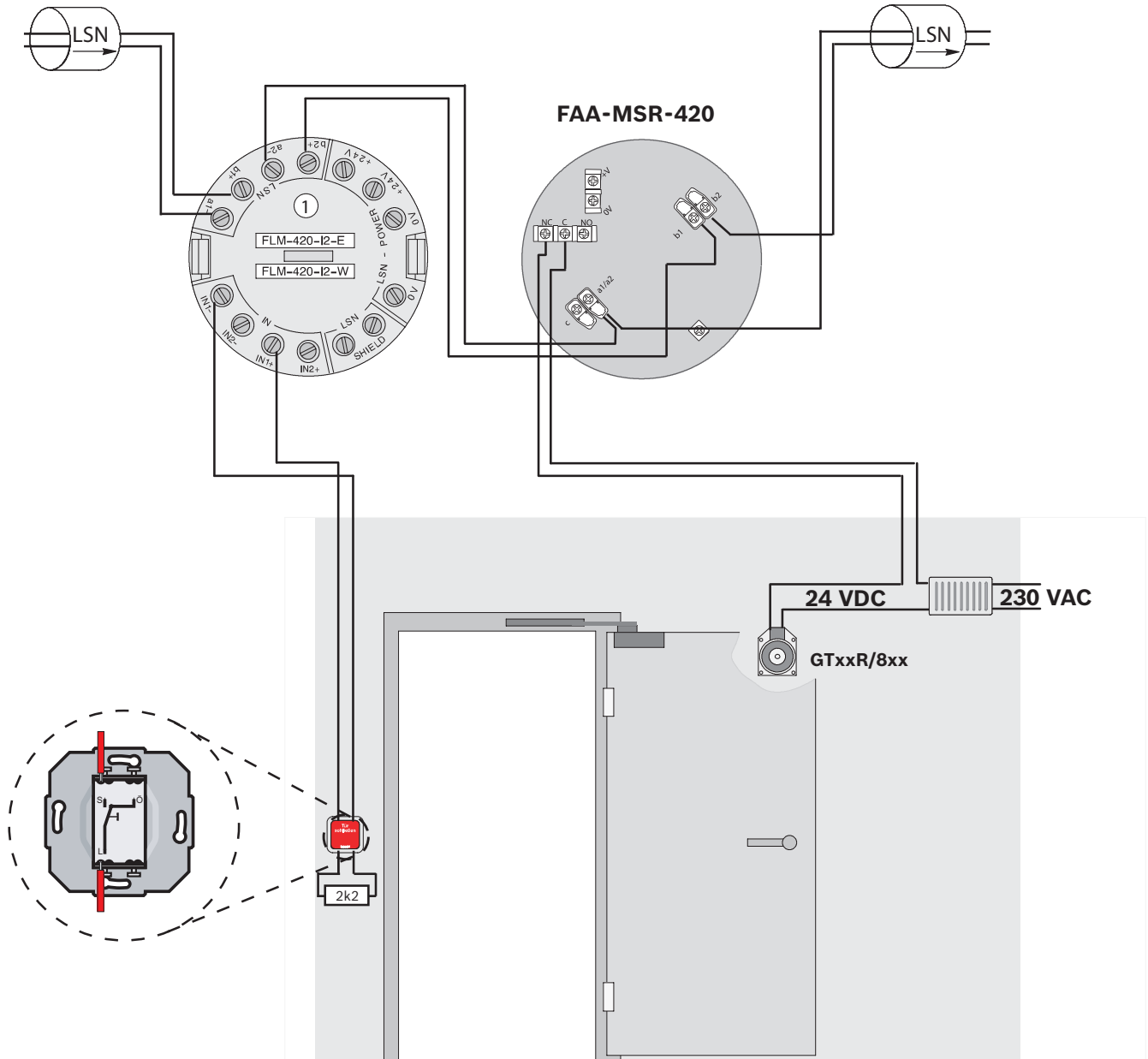


**DIBT**





**DIBT**

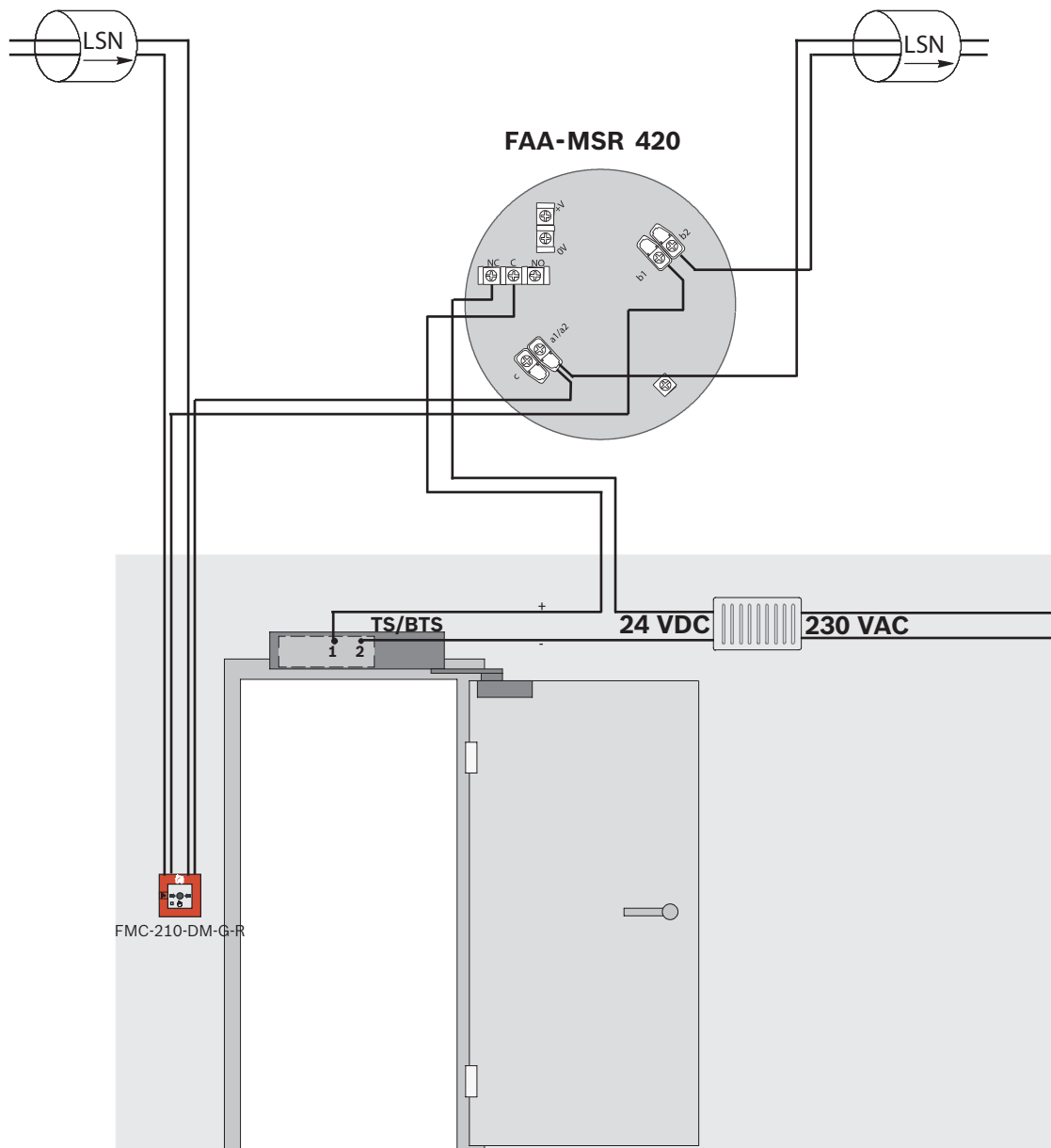






TS 73 EMF  
TS 93 EMF  
TS 93 GSR  
BTS 80 EMB  
BTS 80 FLB

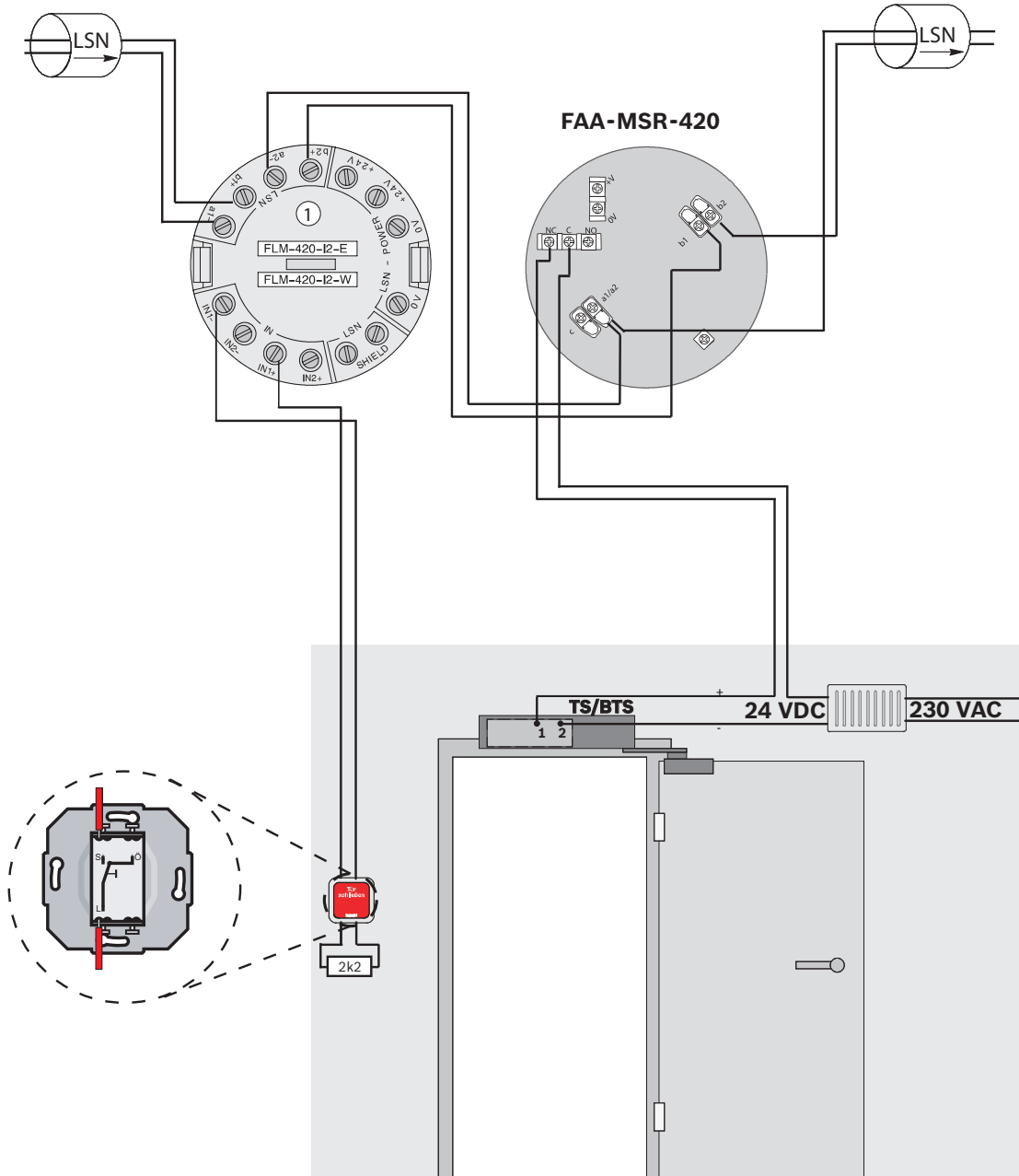
DIBT





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

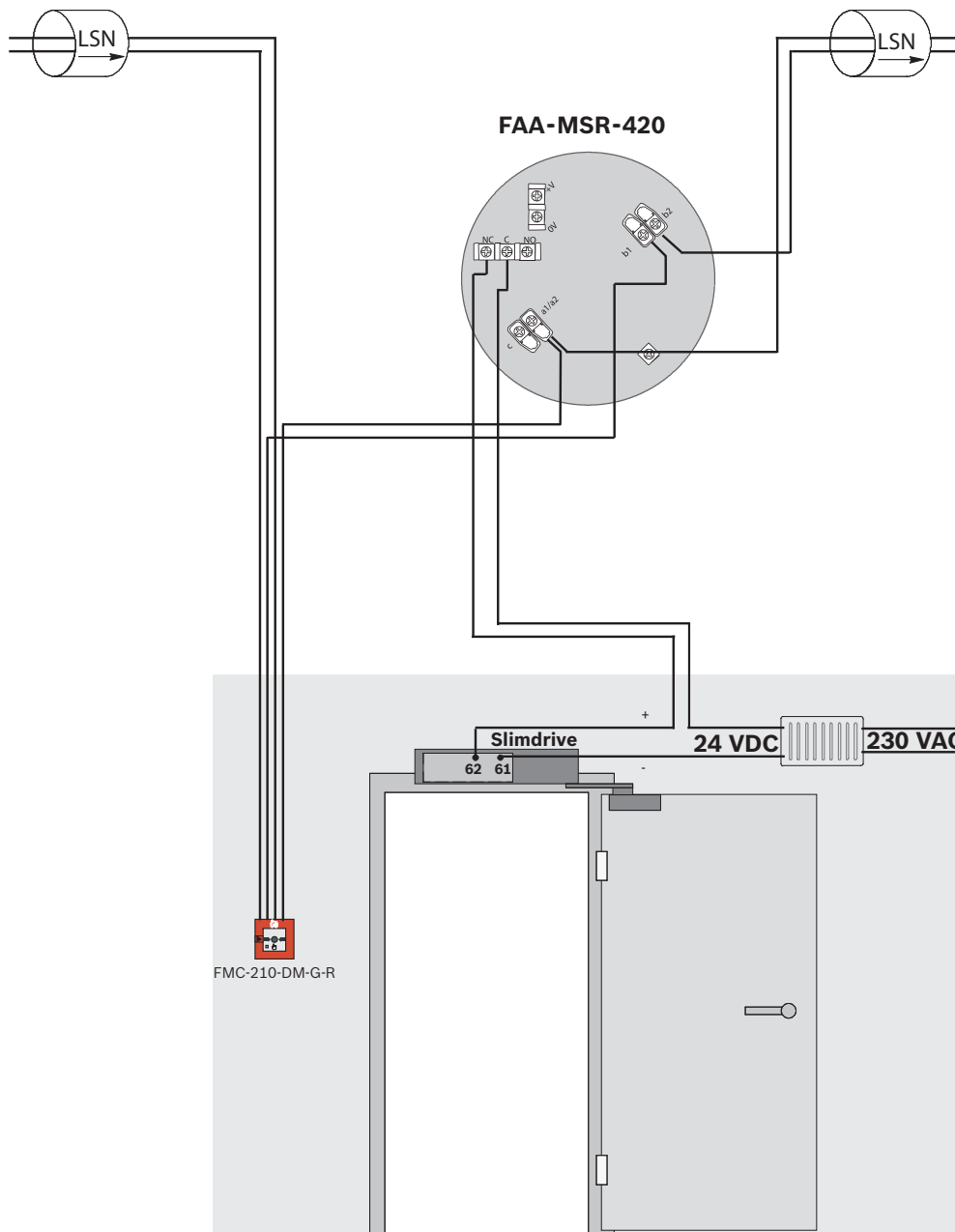
DIBT





Slimdrive EMD-F/EMD F-IS

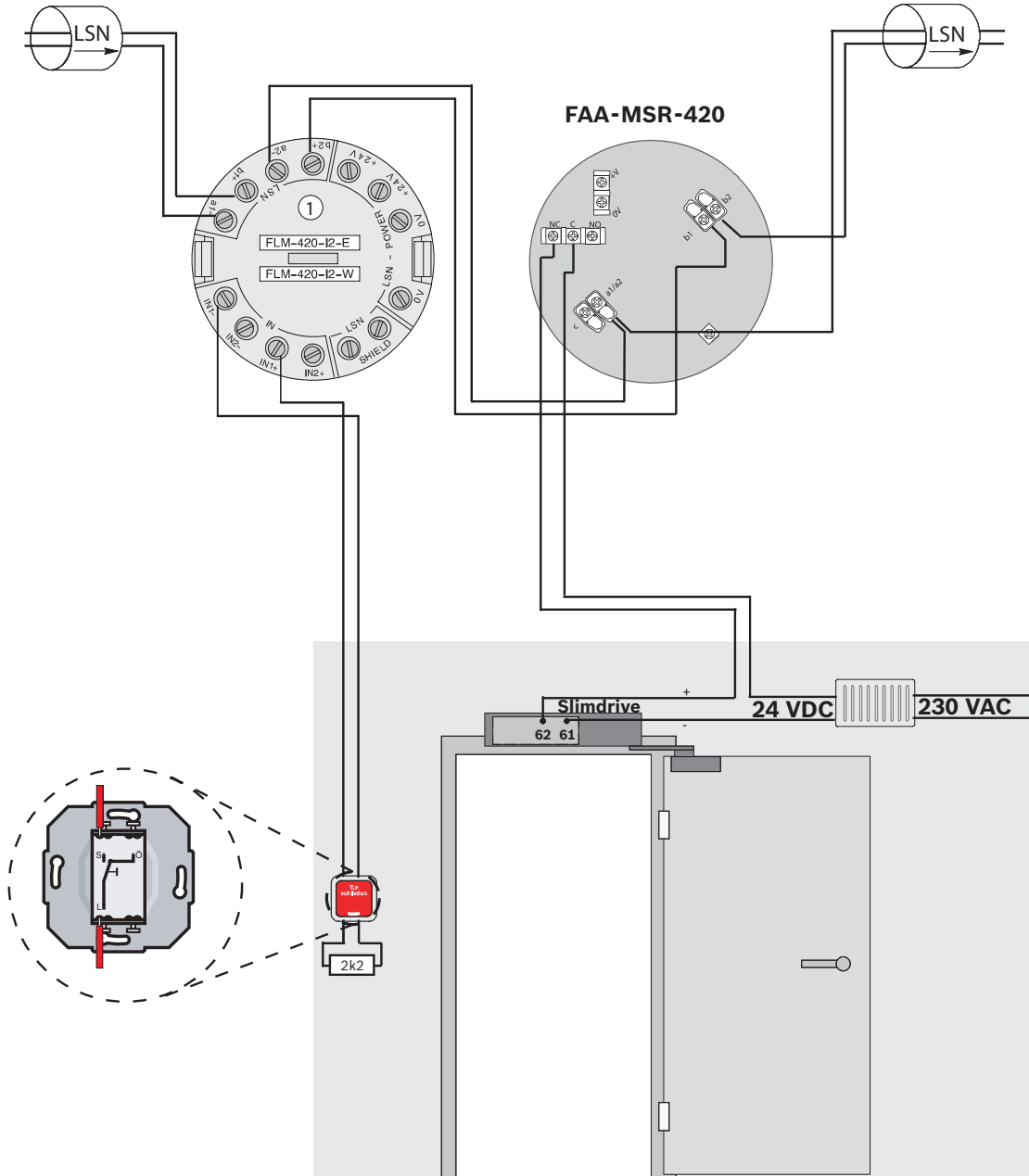
DIBT





Slimdrive EMD-F/EMD F-IS

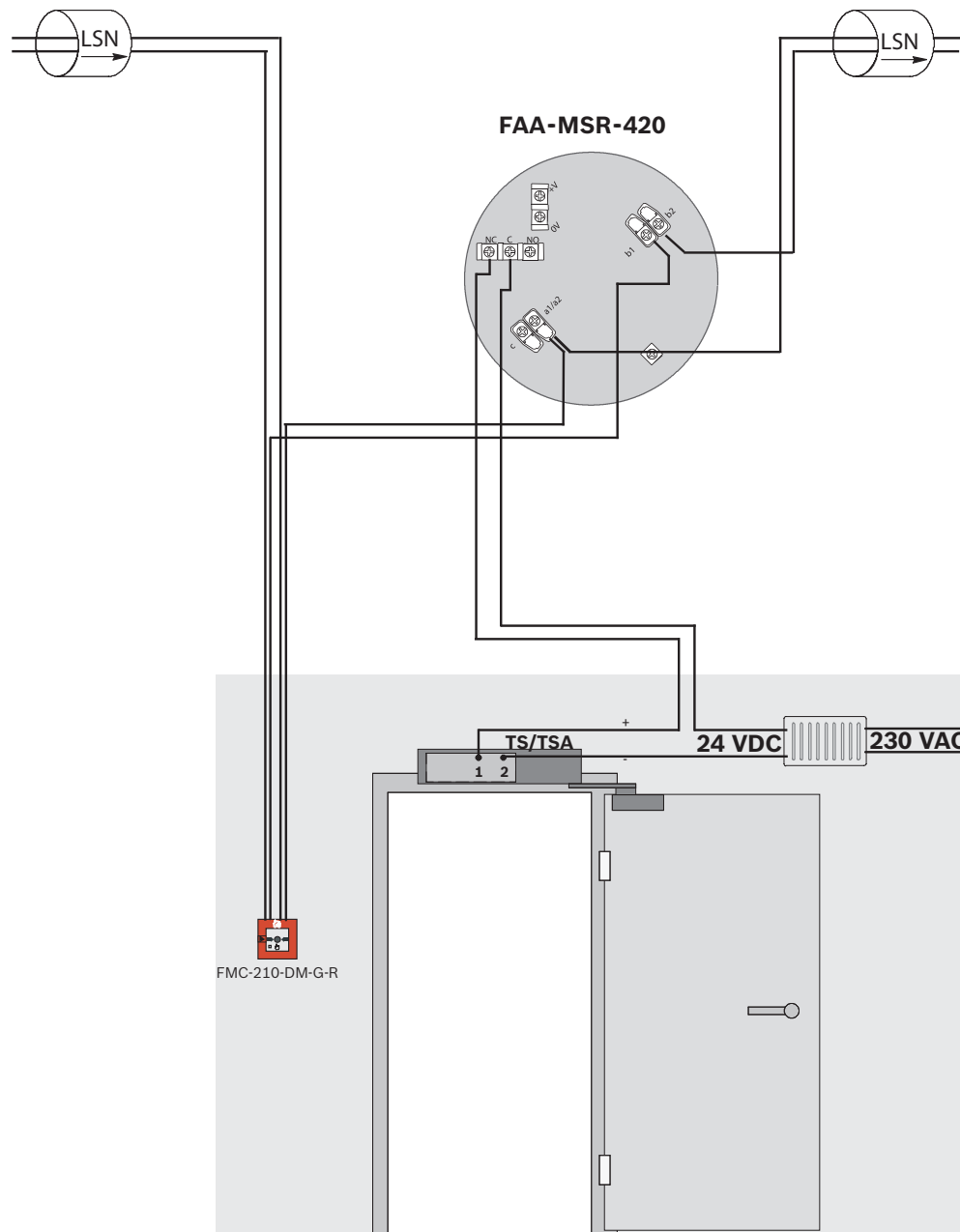
DIBT





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

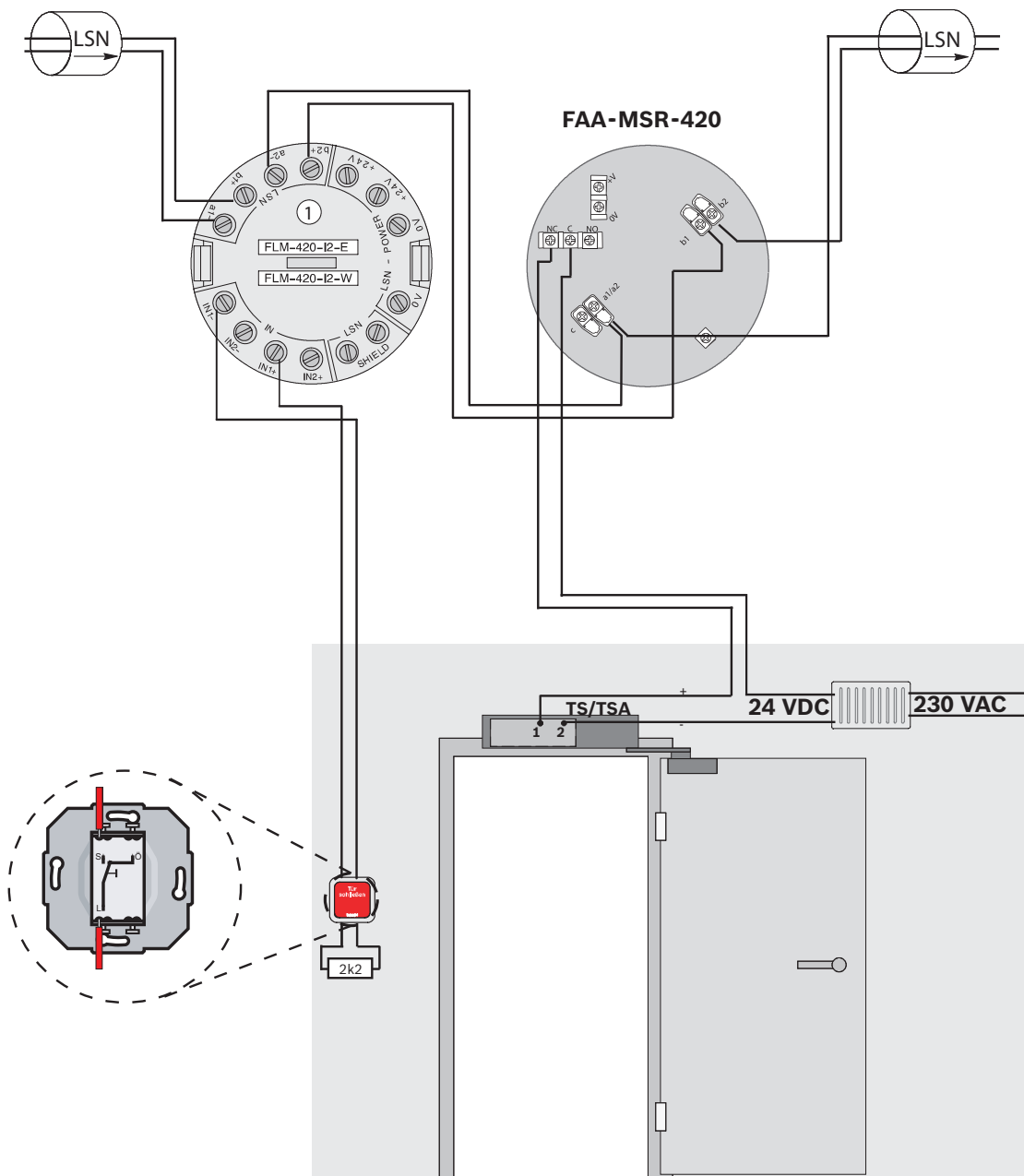
DIBT

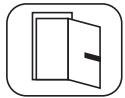




TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

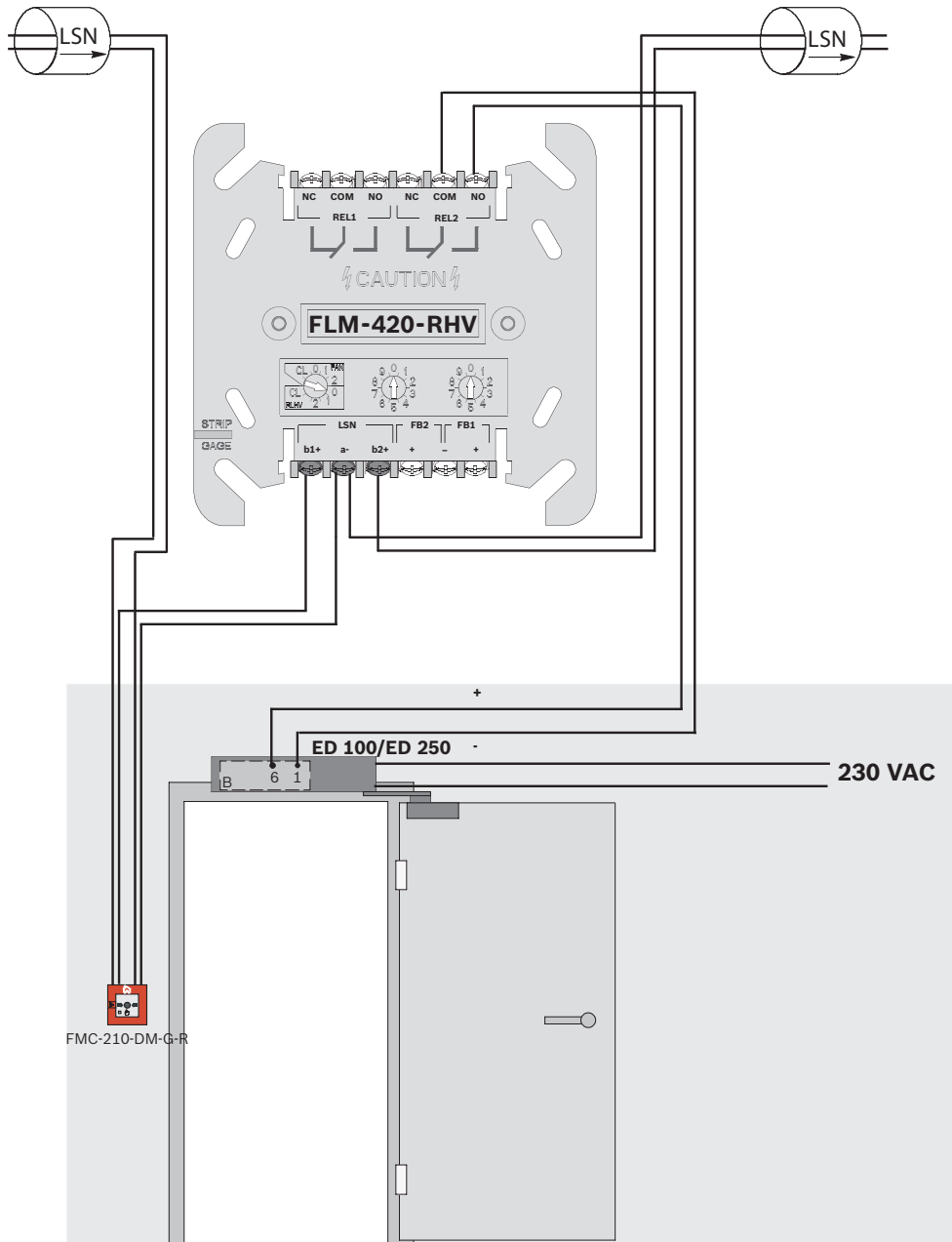
DIBT





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

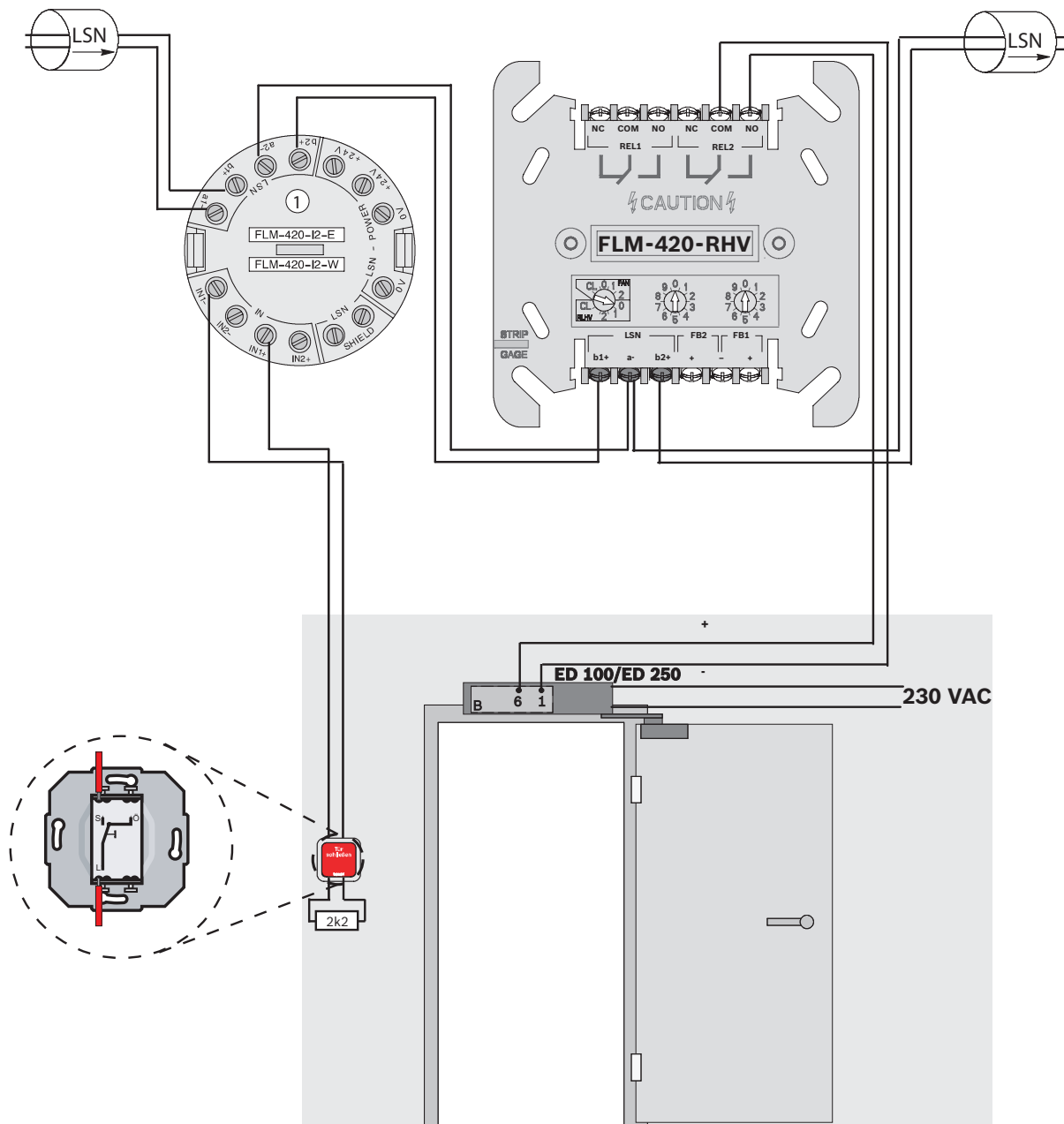
**DIBT**





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

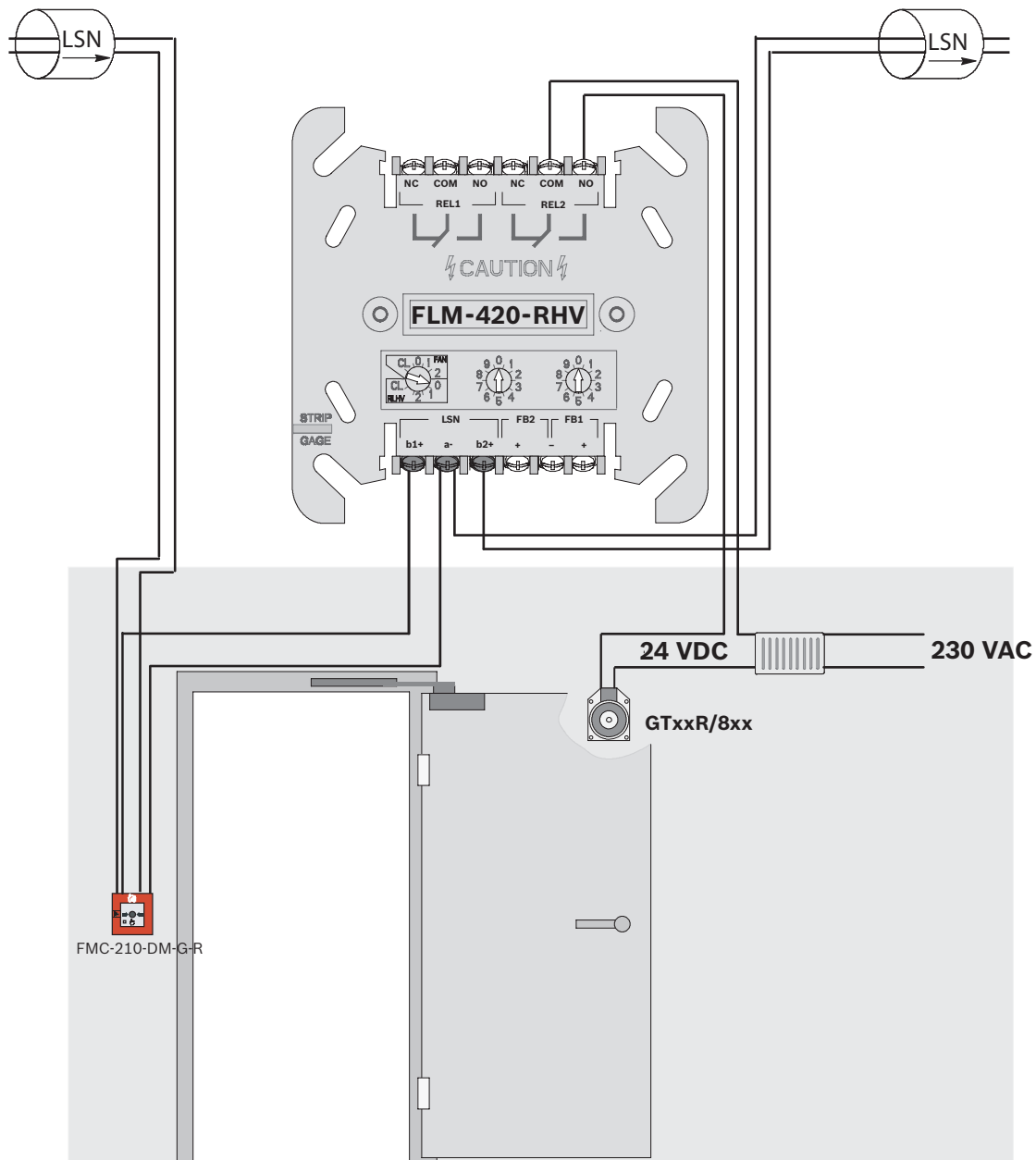
**DIBT**

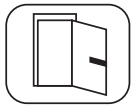




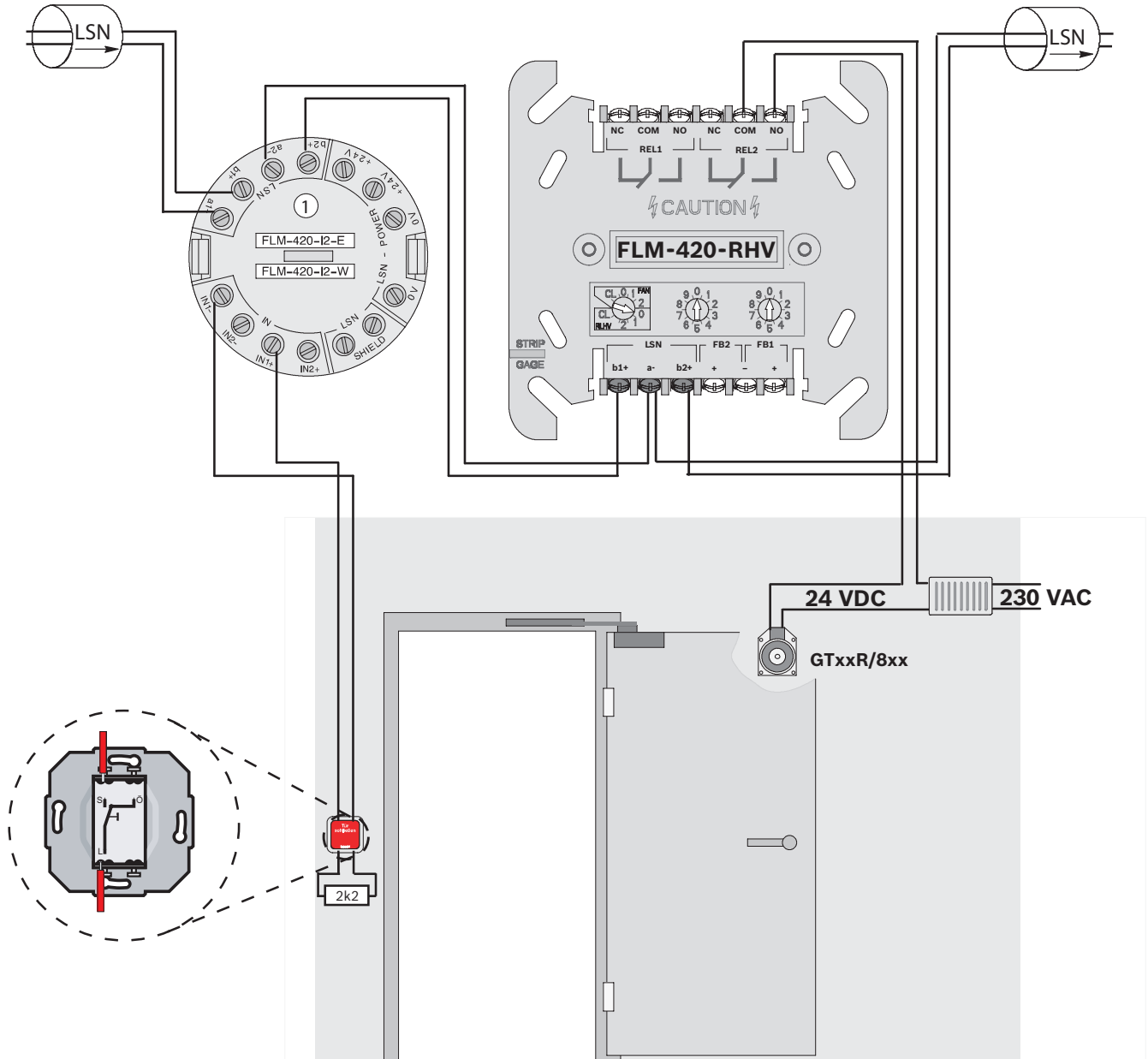


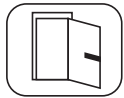
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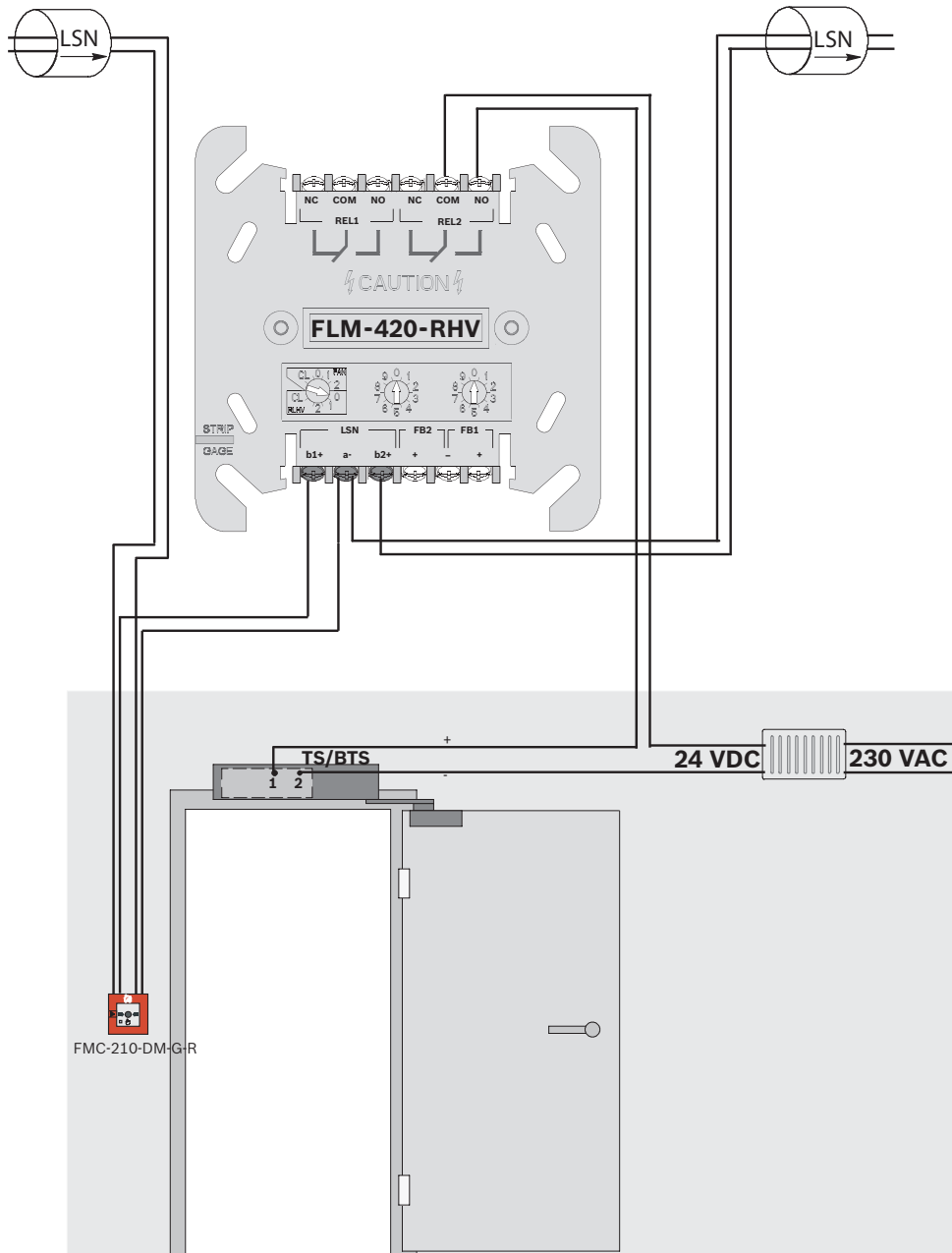
**DIBT**





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

DIBT

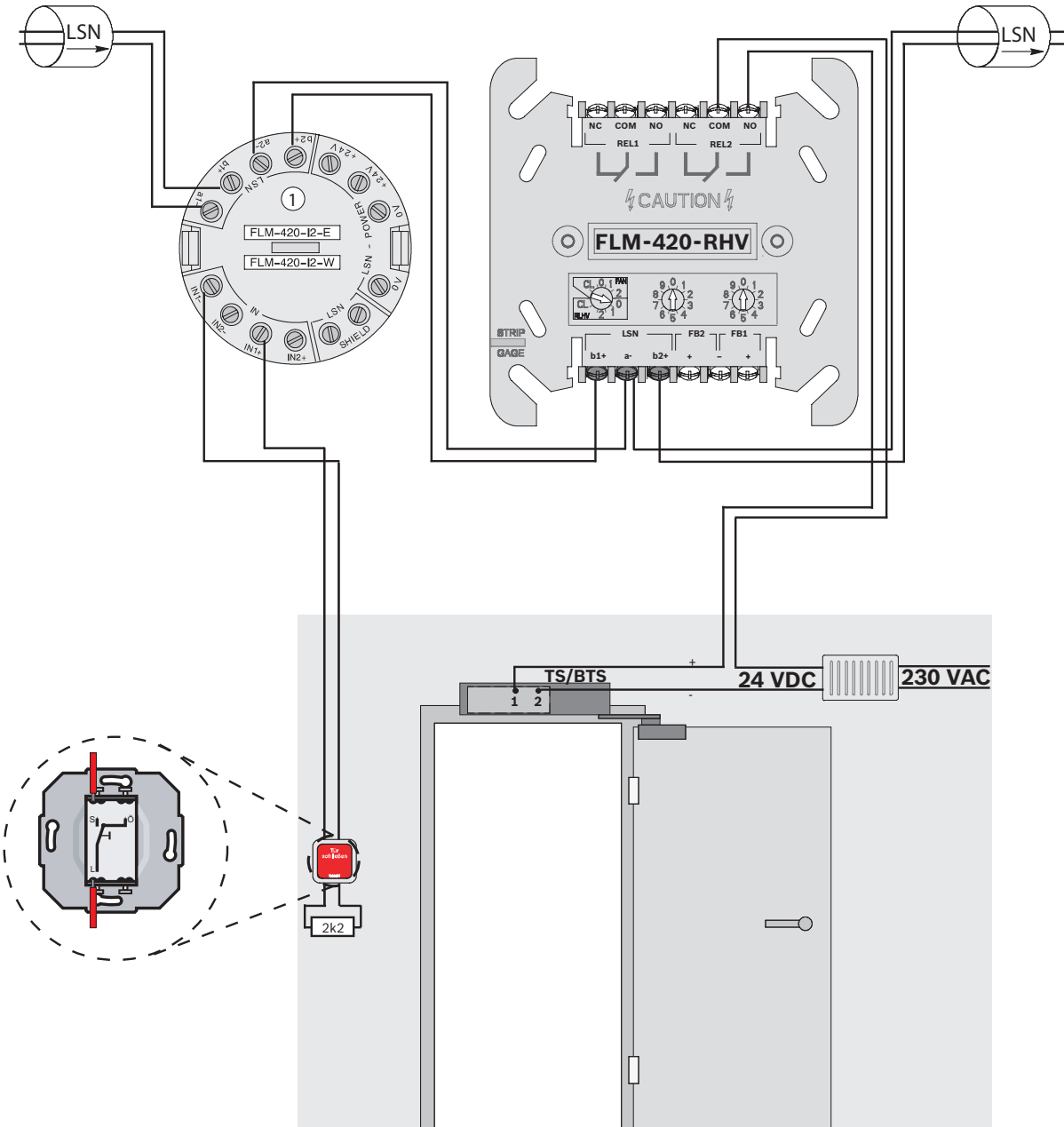


FMC-210-DM-G-R



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

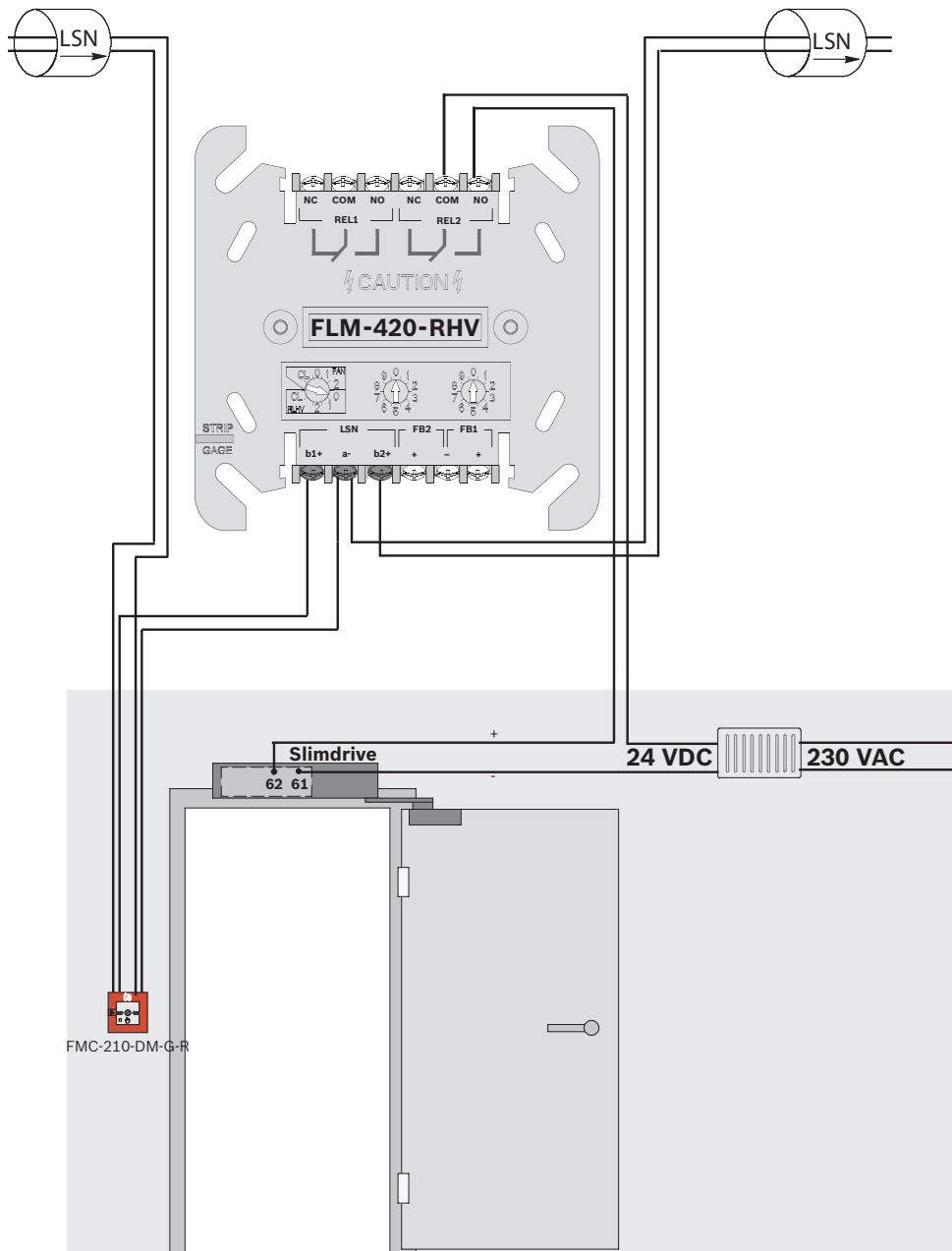
**DIBT**





Slimdrive EMD-F/EMD F-IS

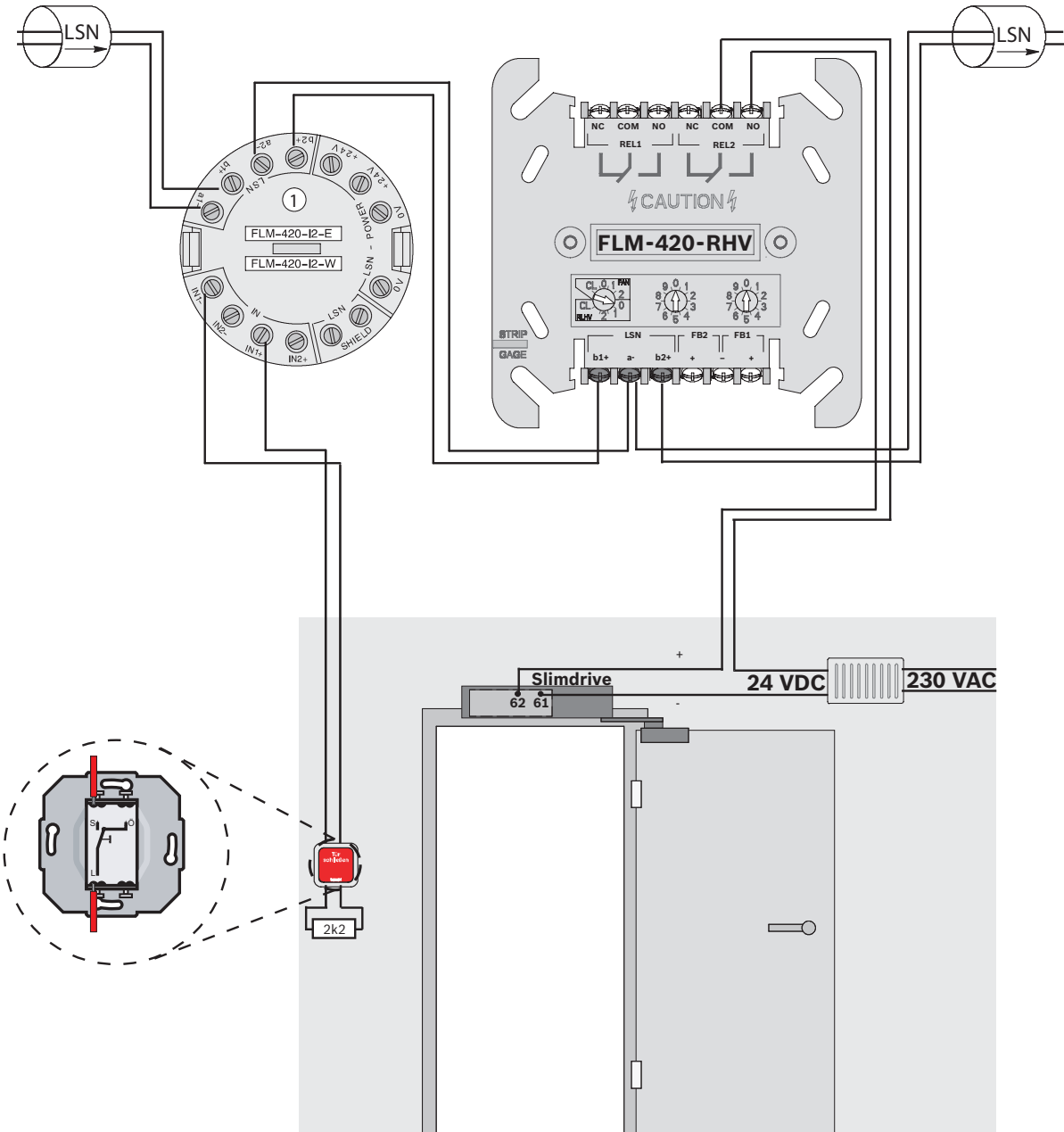
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Slimdrive EMD-F/EMD F-IS

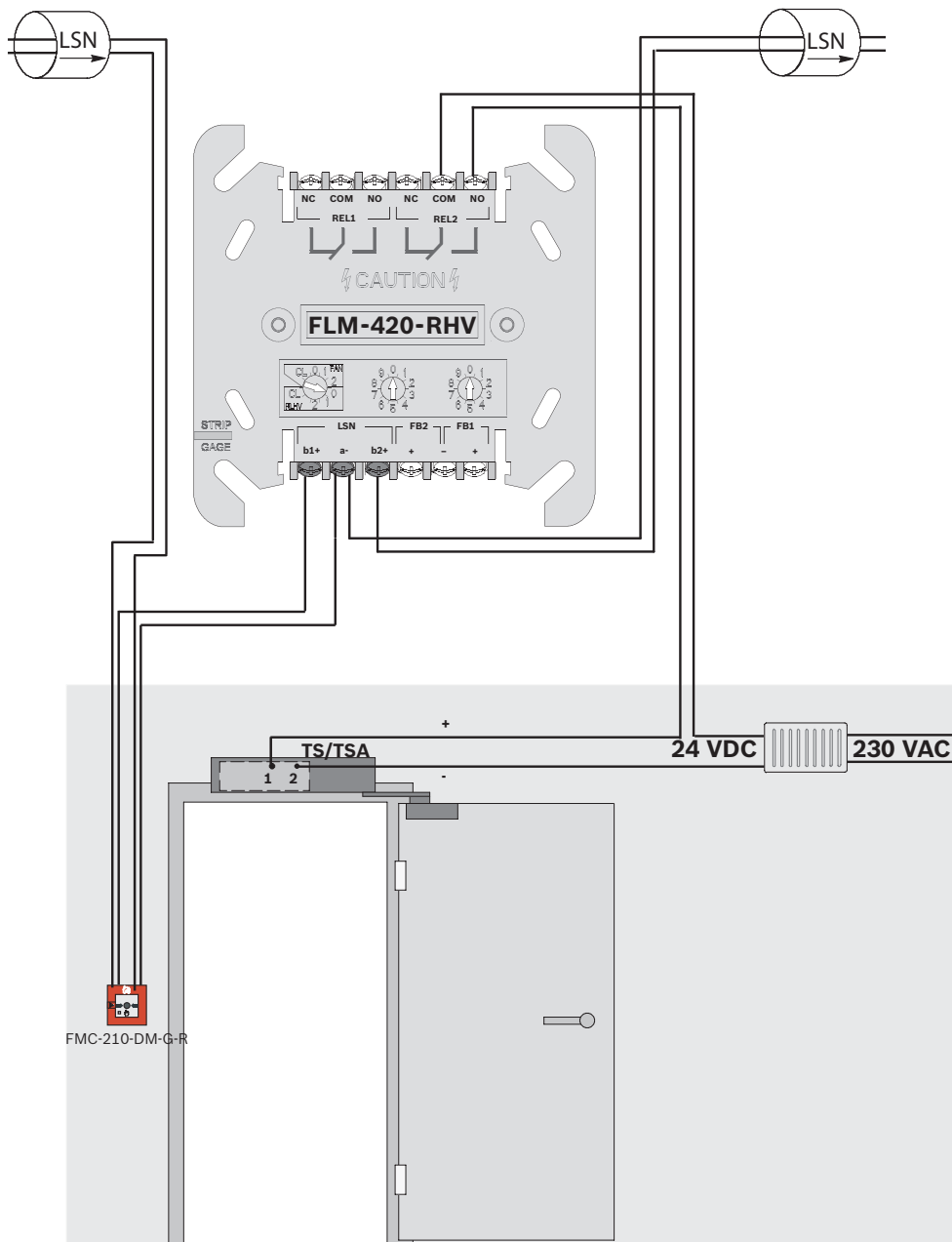
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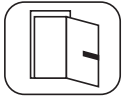




TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

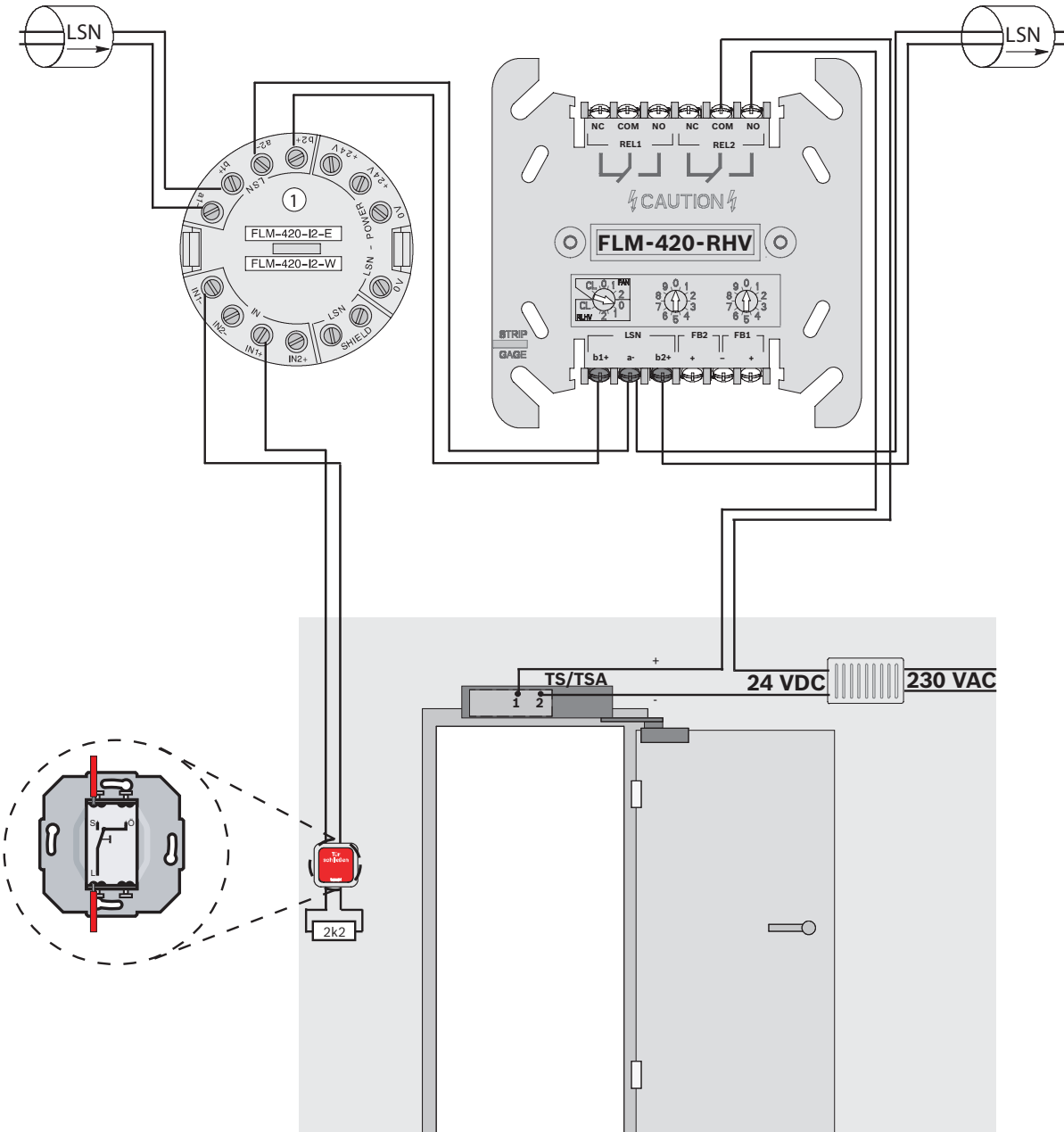
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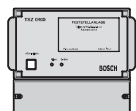


**TS 4000 E/E-IS/EFS**  
**TS 5000 E/E-IS/E-ISM**  
**TS 550 E**  
**TSA 160 NT F/F-IS/F-IS/TS**

**DIBT**

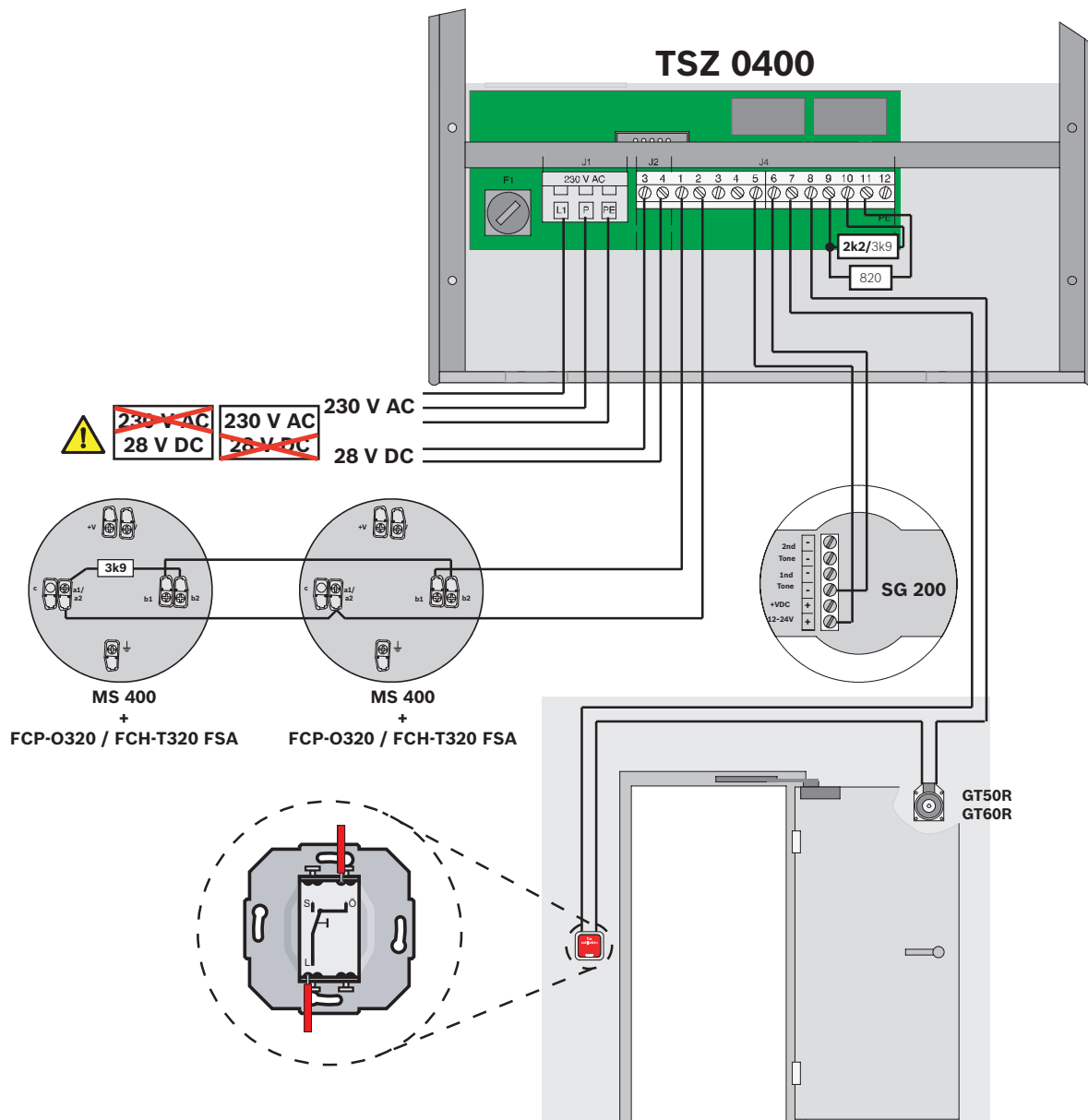


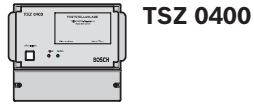
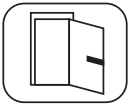




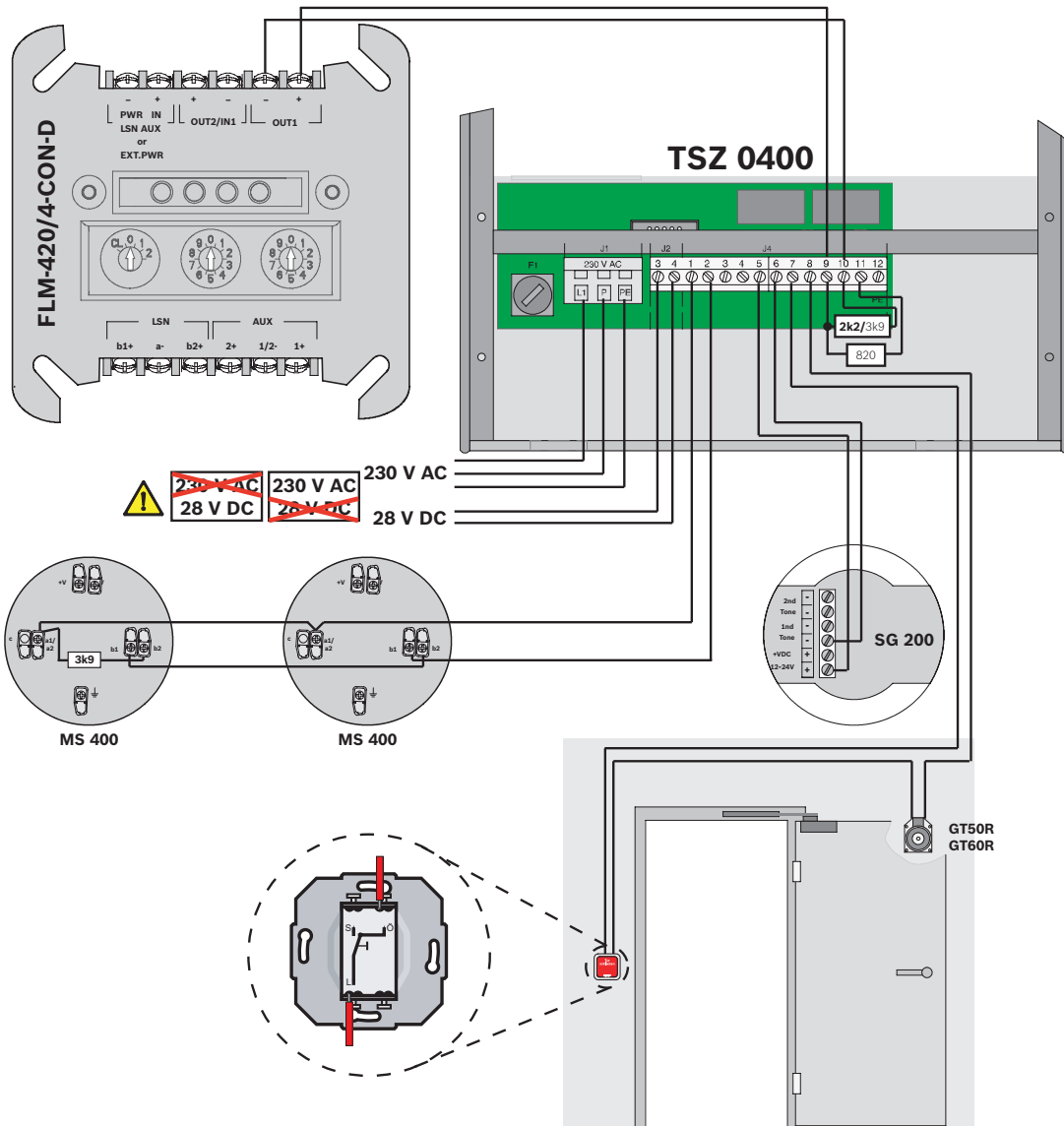
TSZ 0400

DIBT



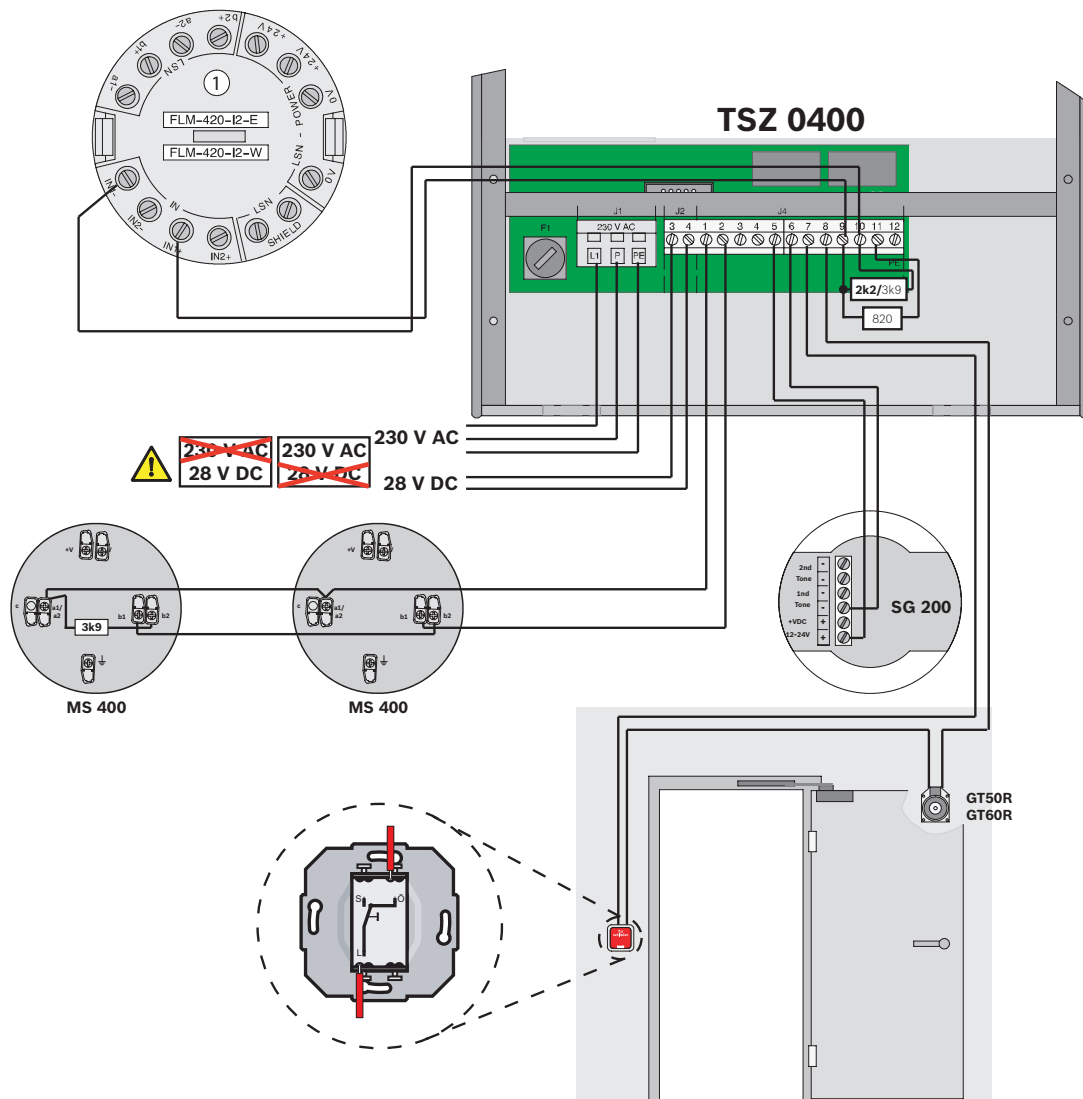


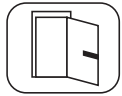
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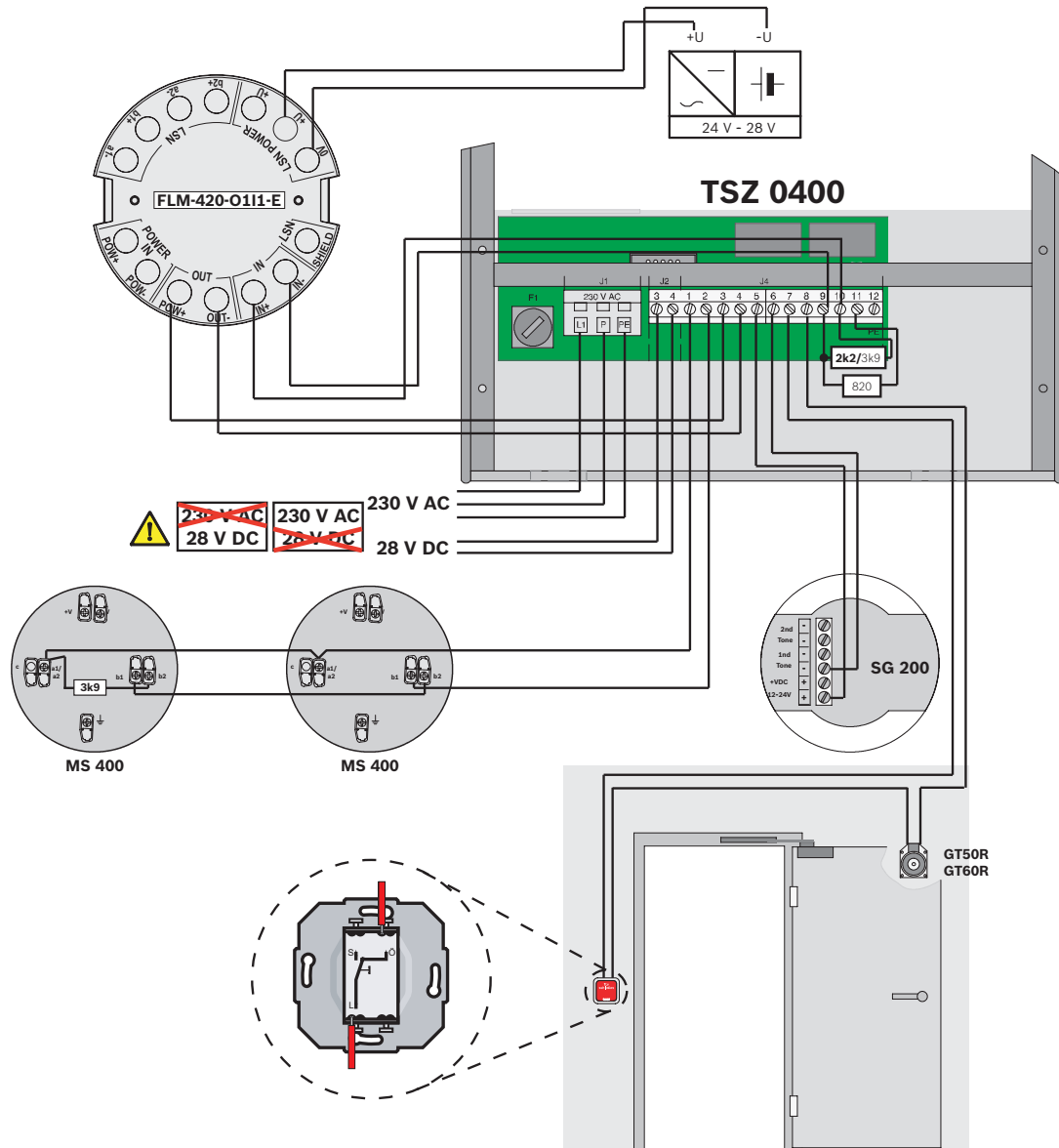


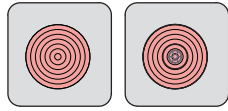
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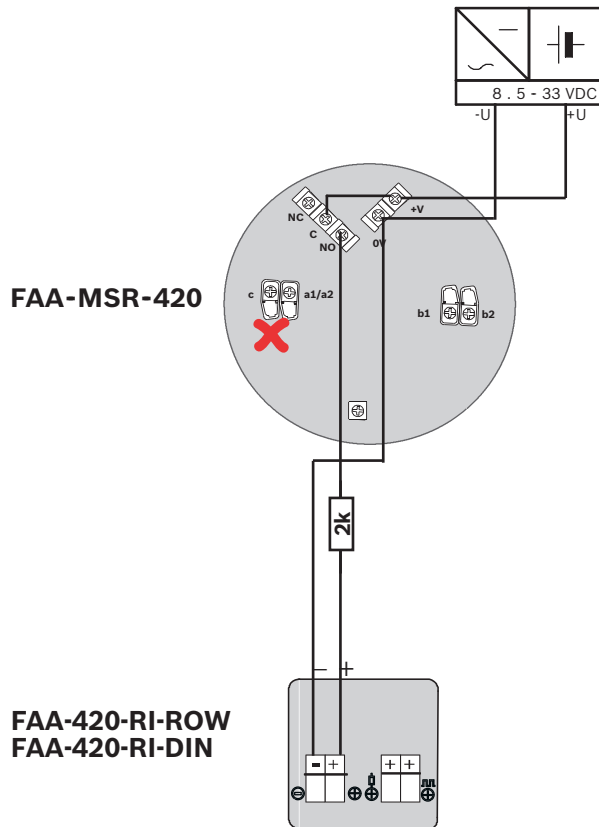
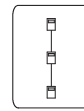


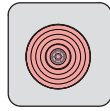
DIBT



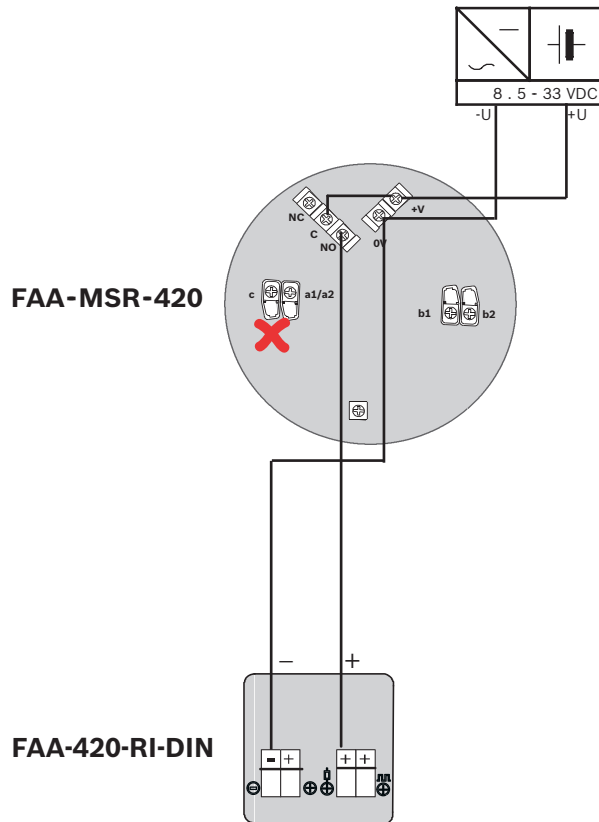
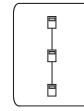


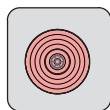
**FAA-420-RI-ROW**  
**FAA-420-RI-DIN**



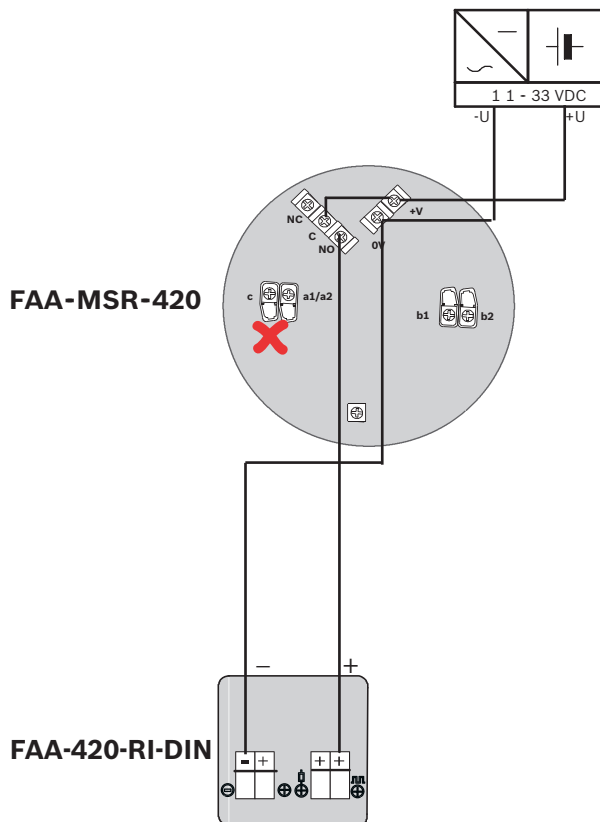
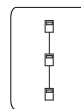


**FAA-420-RI-DIN**





FAA-420-RI-DIN



### 3.3

## Functional Modules



*BCM-000-B, pagina 43*

*CZM 0004 A, pagina 45*

*ENO 0000 A/B, pagina 49*

*LSN 0300 A, pagina 56*

*NZM 0002 A, pagina 91*

*RMH 0002 A, pagina 107*

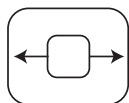
*IOS 0020 A, pagina 110*

*FPE-5000-UGM, pagina 113*

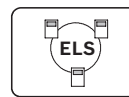


3.3.1

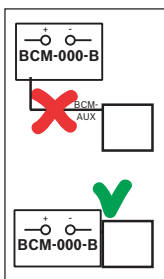
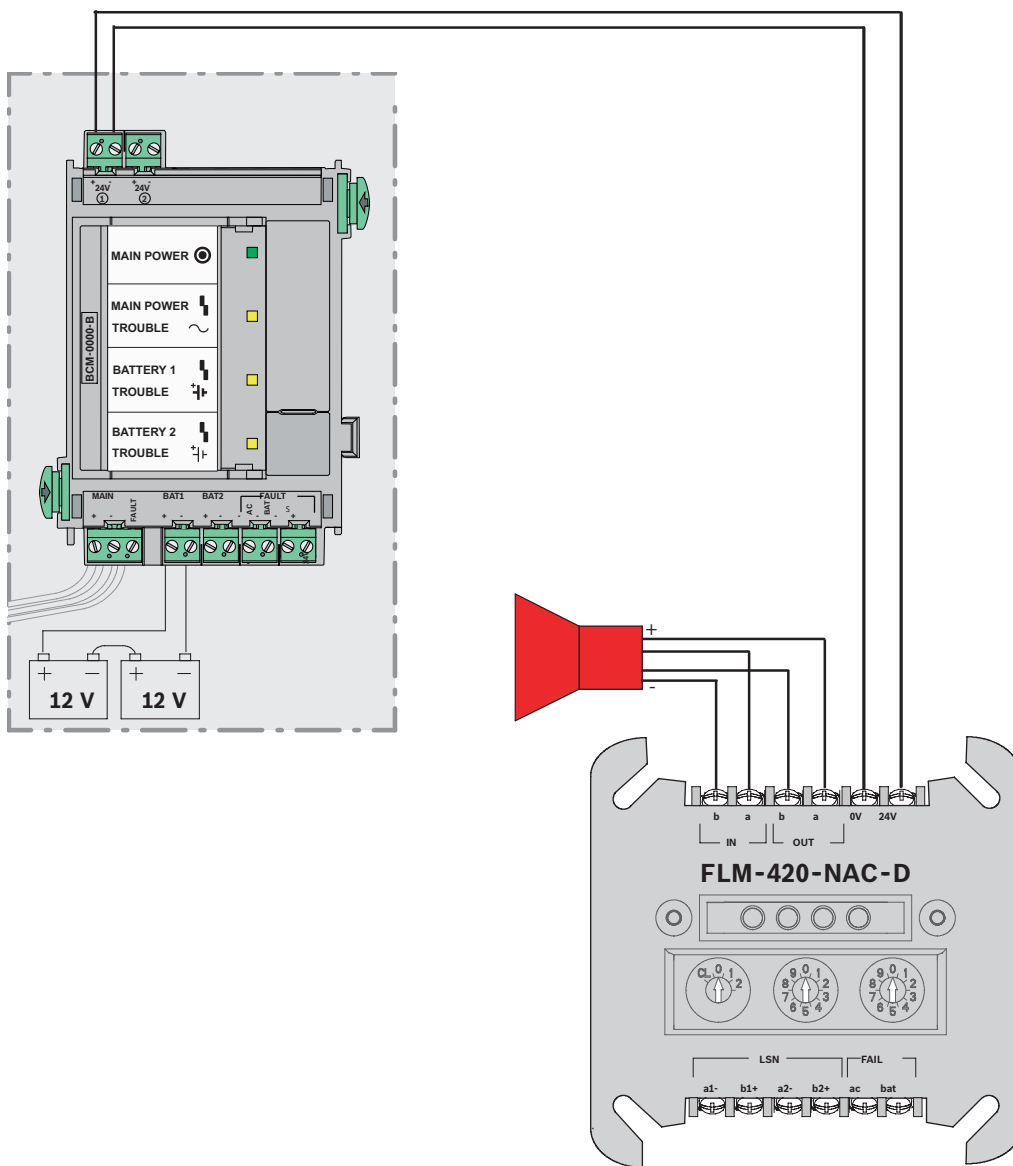
BCM-000-B

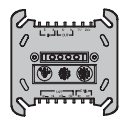
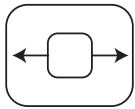


FLM-420-NAC-D

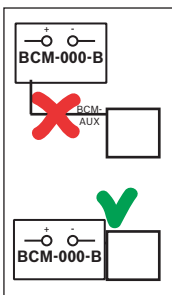
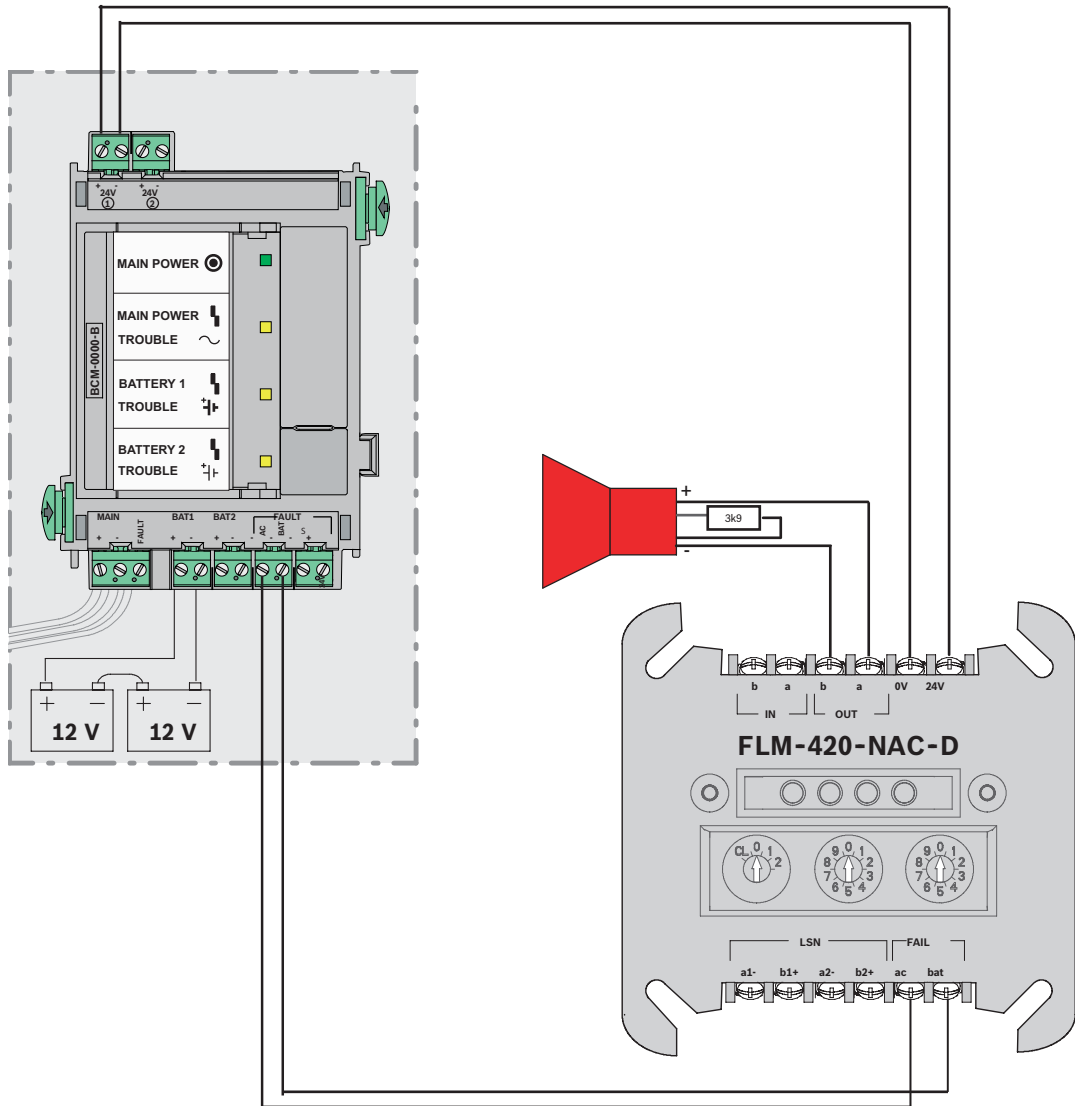
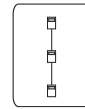


VdS 2489





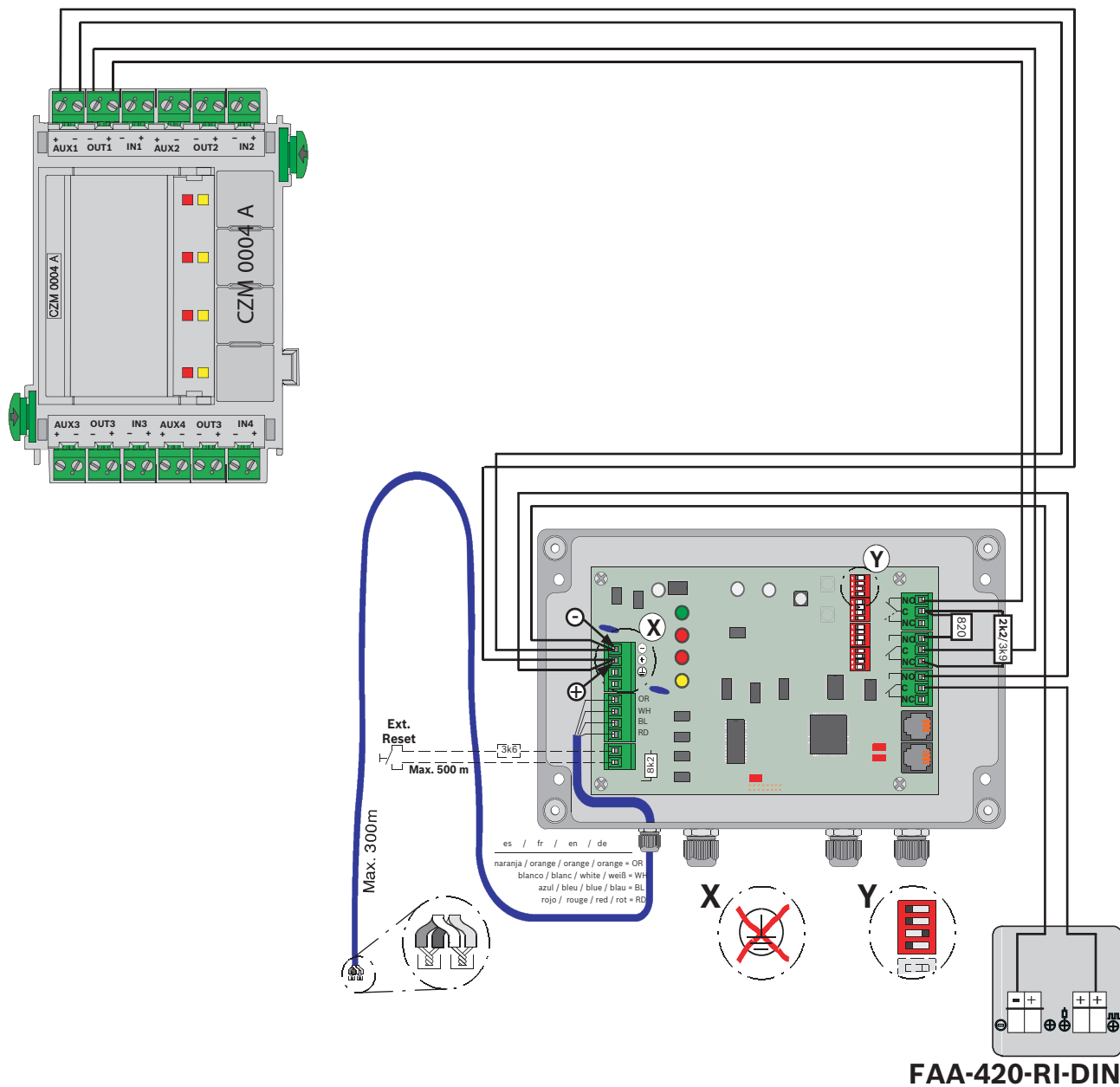
FLM-420-NAC-D



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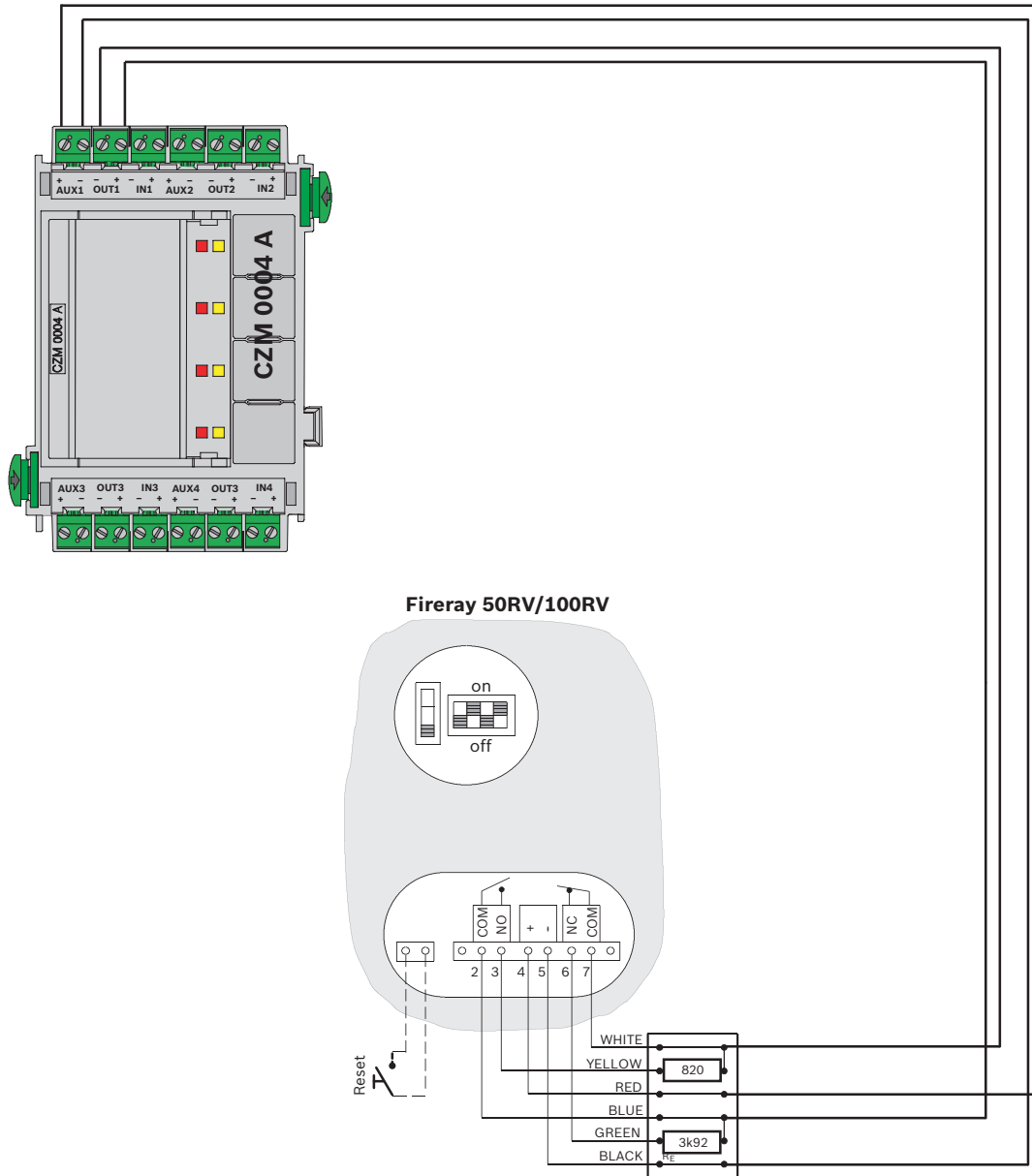


FCS-LWM-1



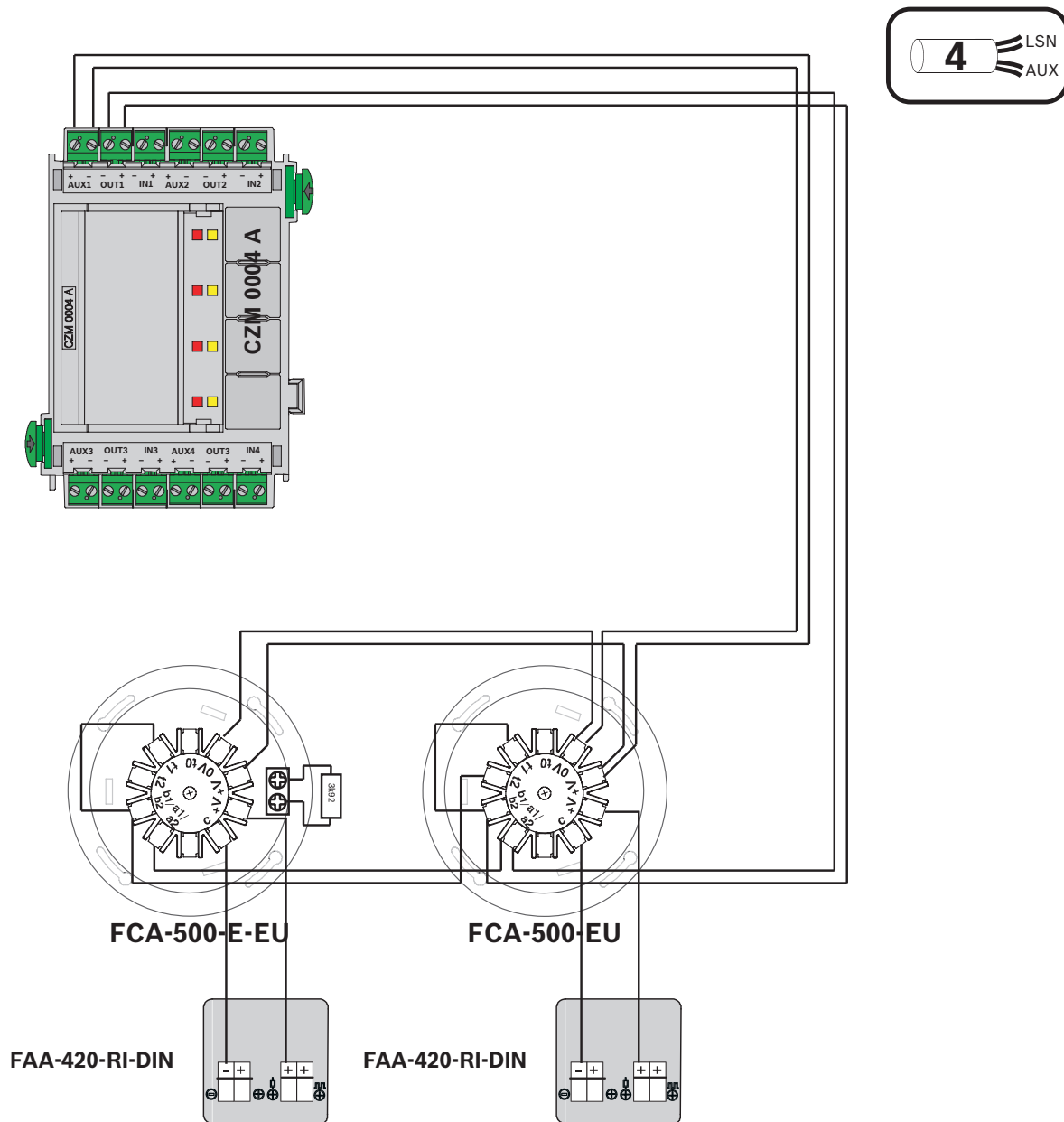
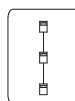


**Fireray 50RV  
Fireray 100RV**



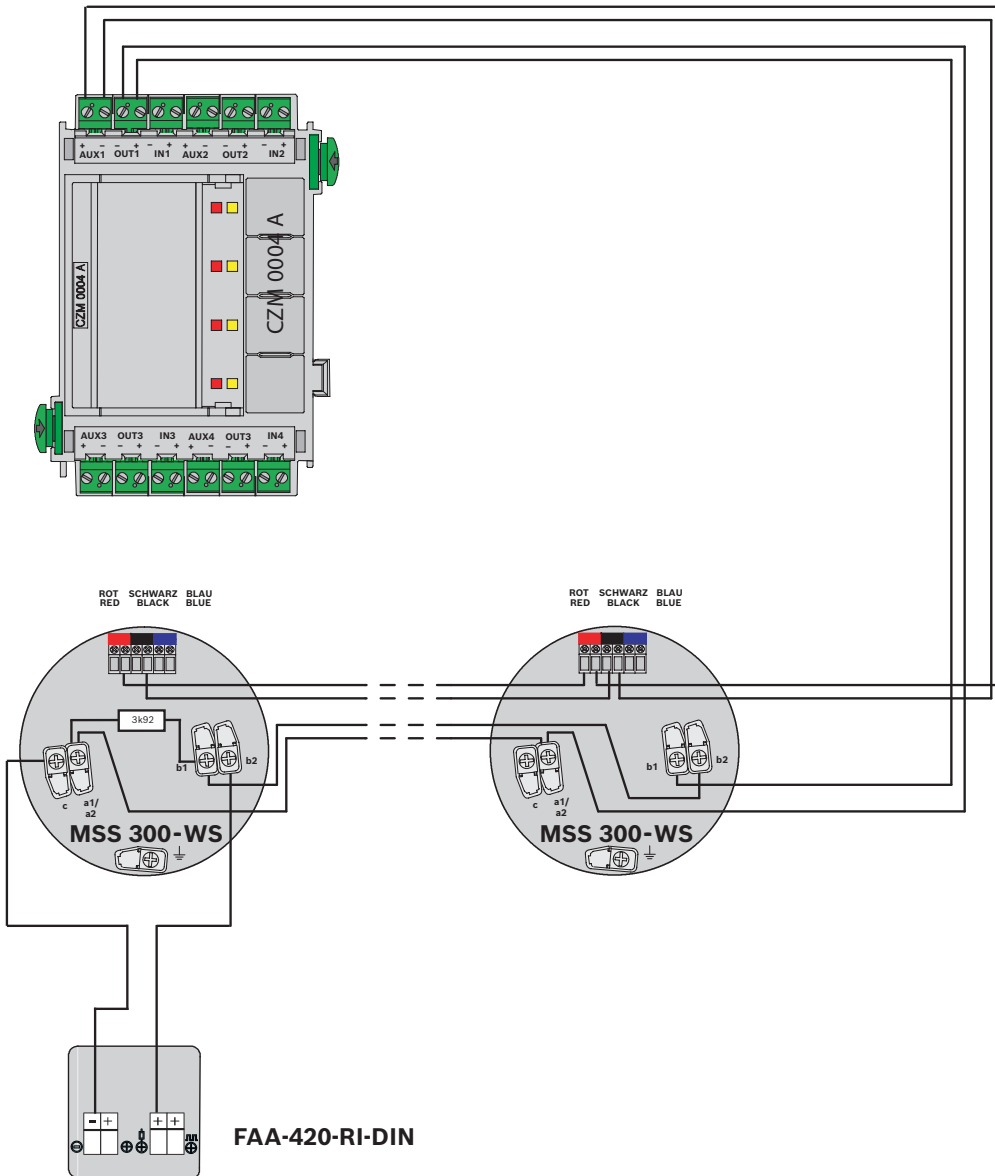


FCP-500





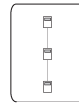
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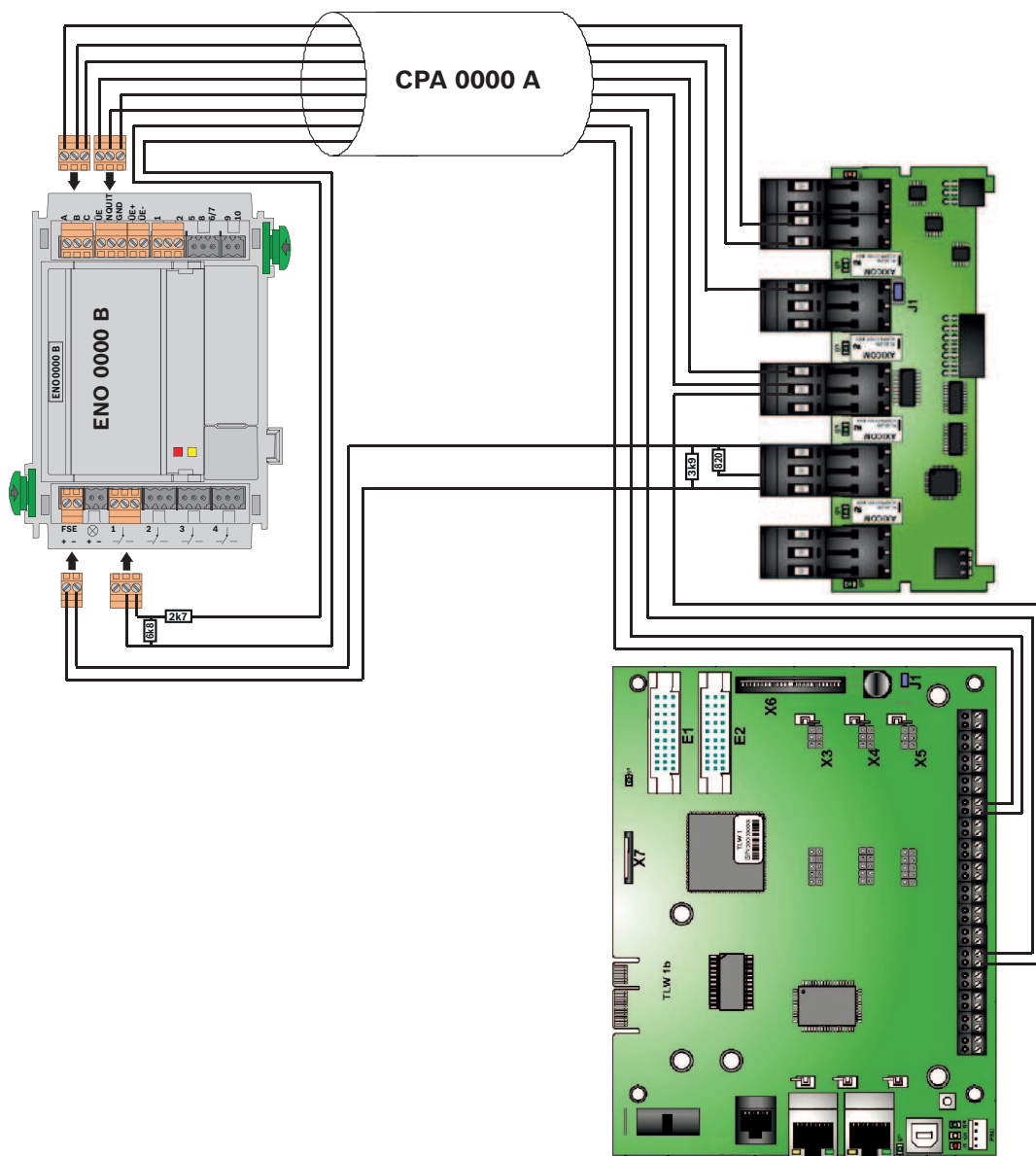
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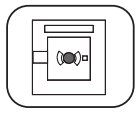


AT5000 IP/GPRS

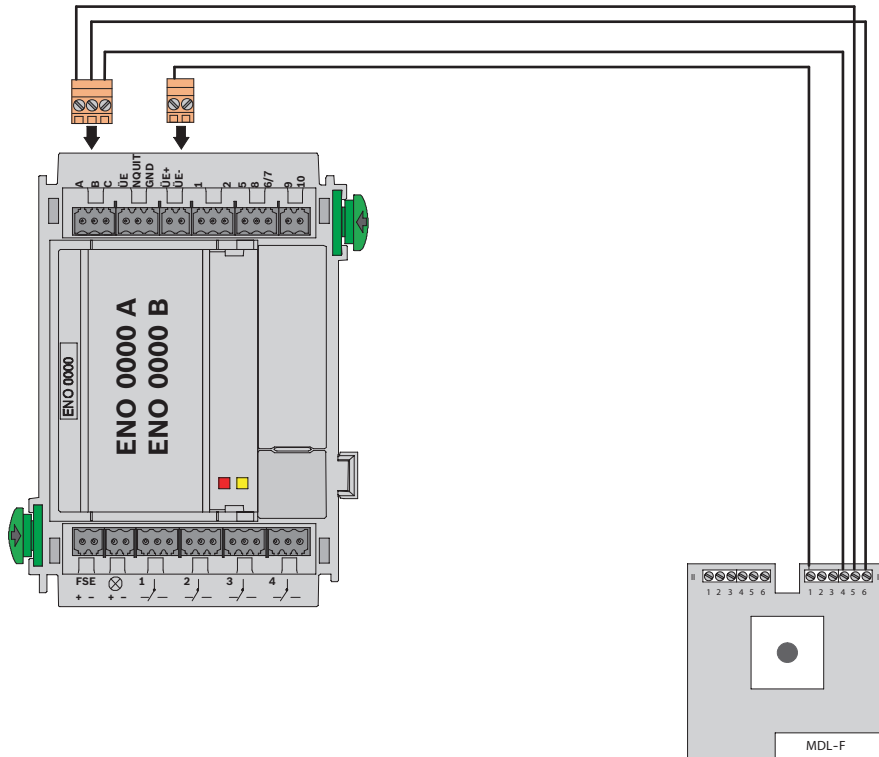


EN 54-2

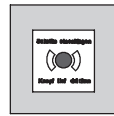
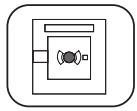




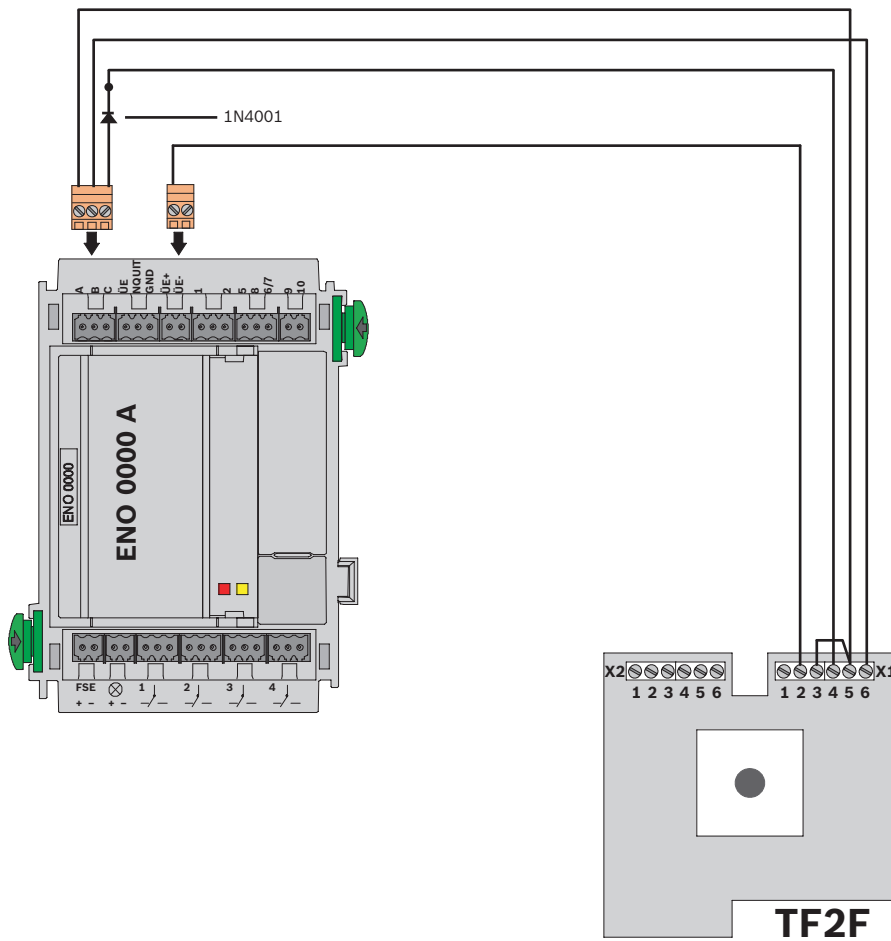
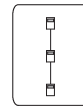
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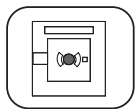




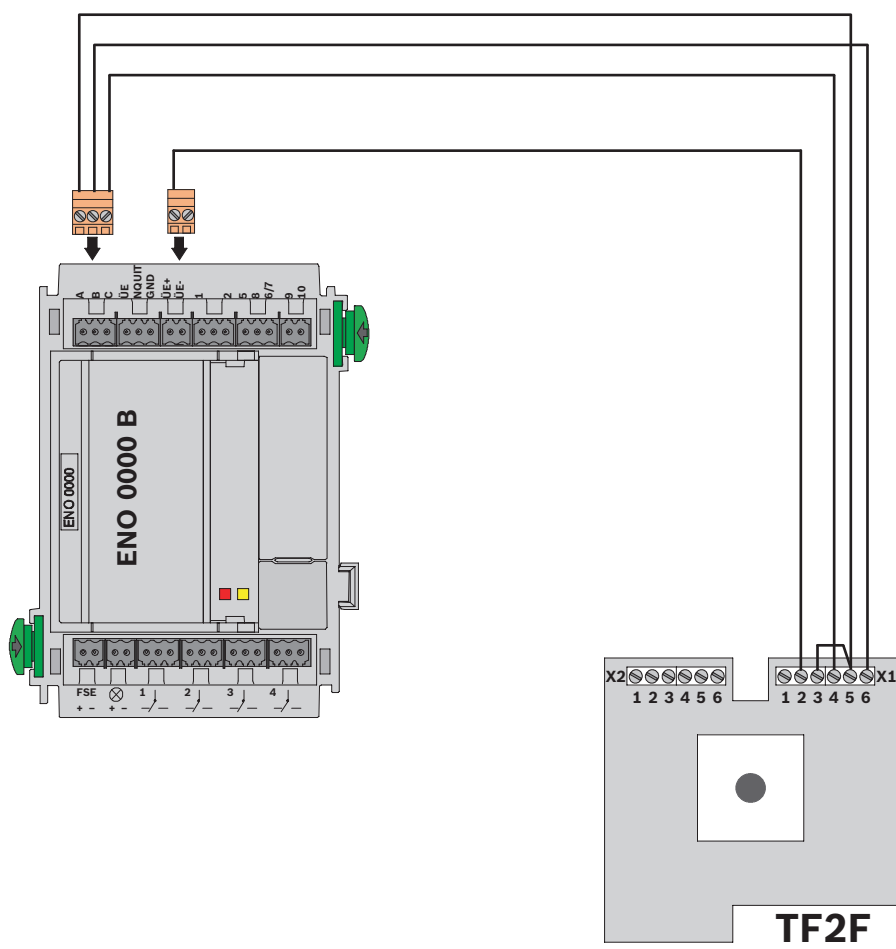
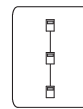


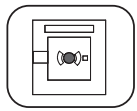
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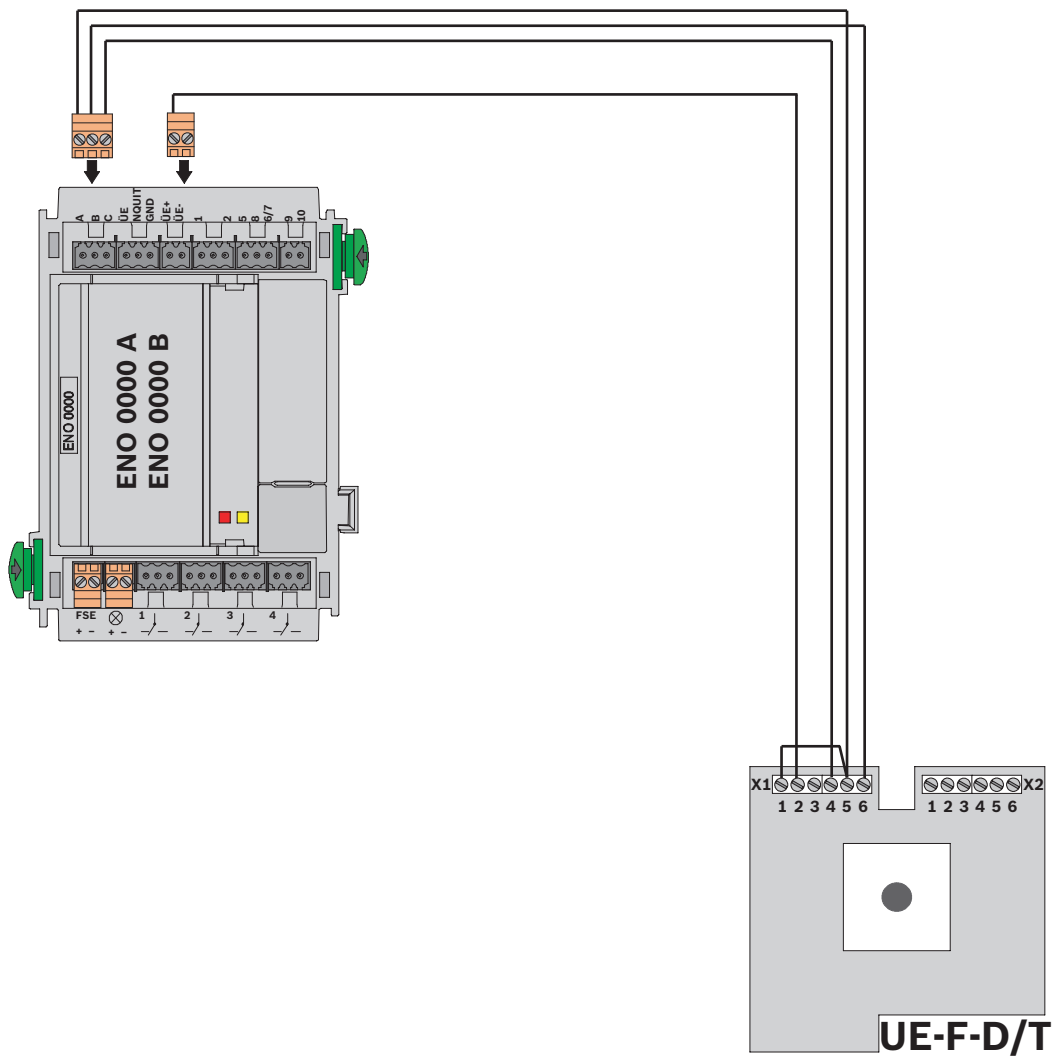


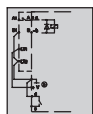
TF2F



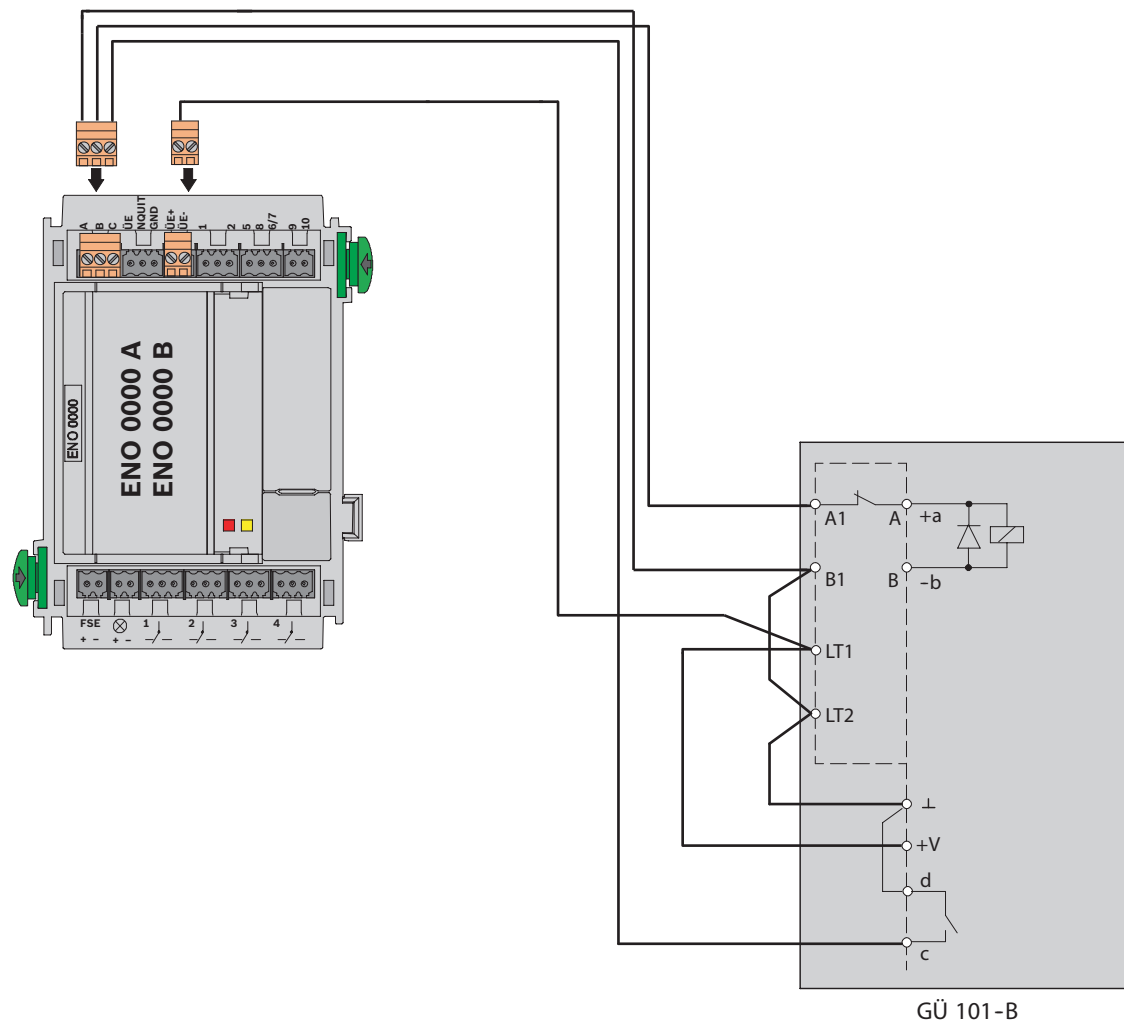
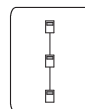


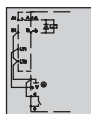
**UE-F-D/T**



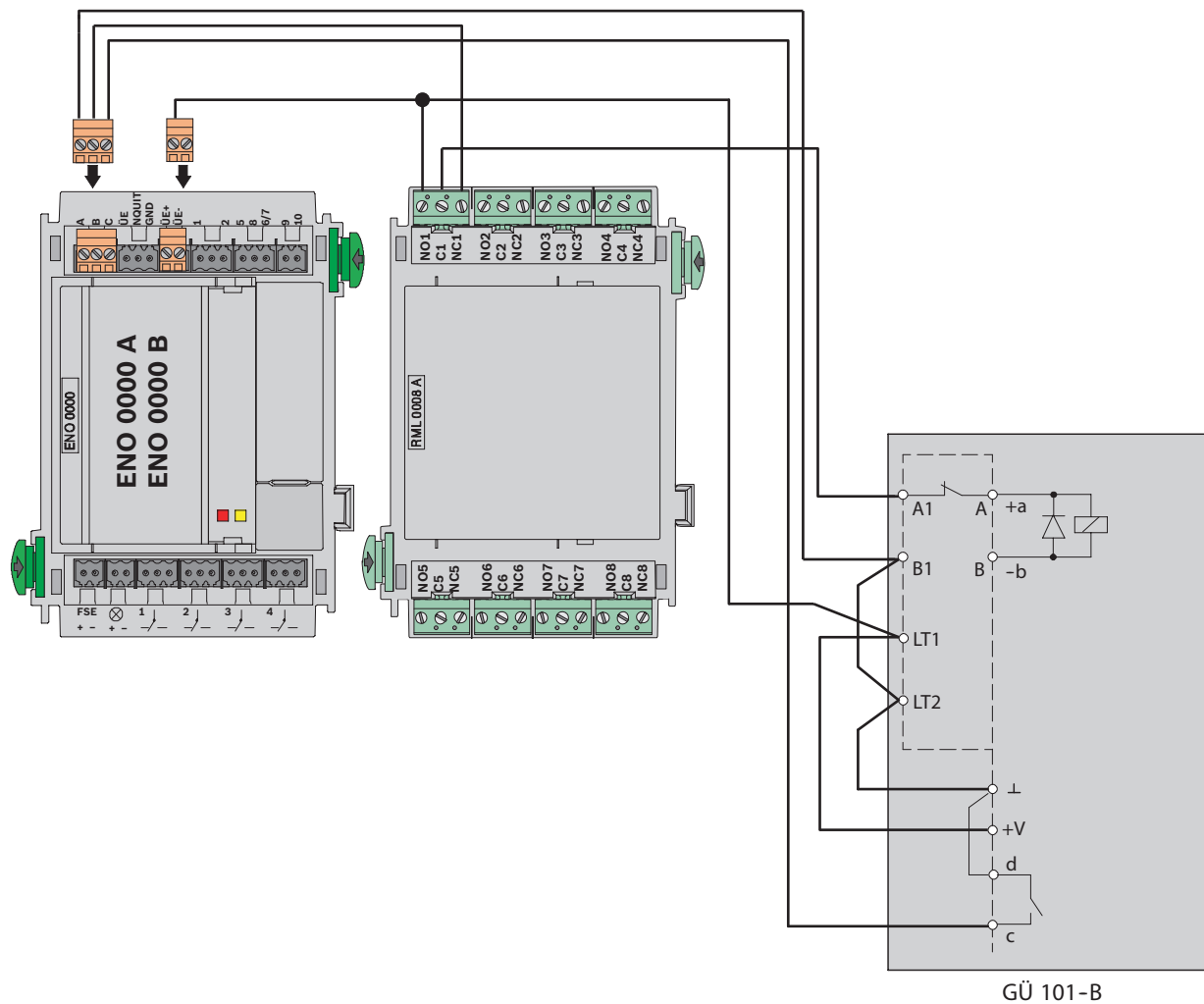
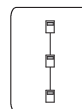


**GÜ 101-B**



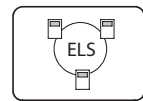
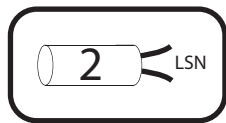


**GÜ 101-B**

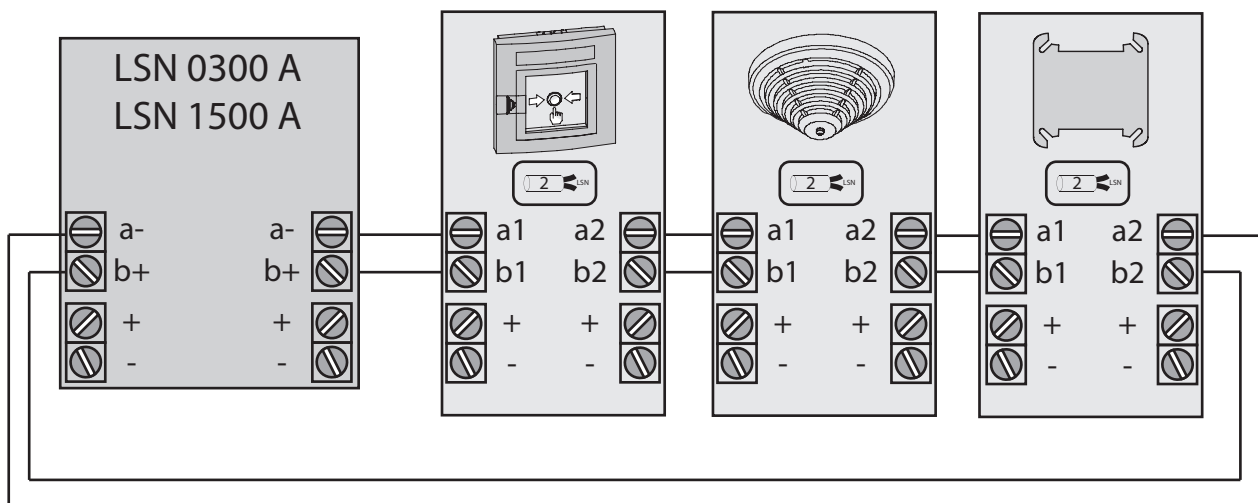


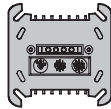
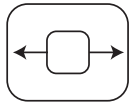
3.3.4

LSN 0300 A

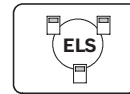


VdS 2489

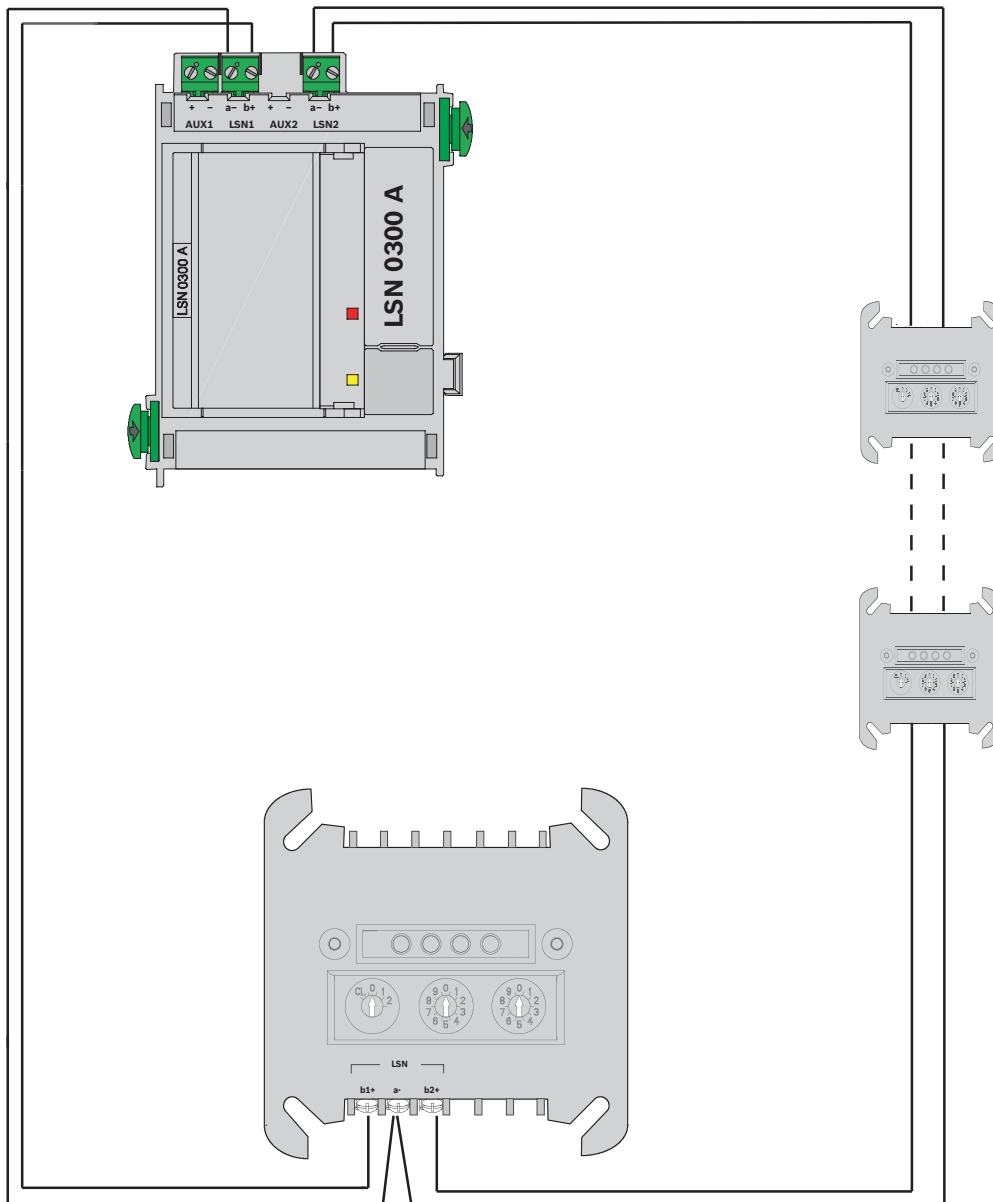


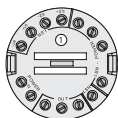
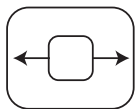


FLM-I 420-S  
 FLM-420-I2-D  
 FLM-420-O1I1-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D

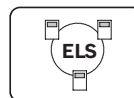


VdS 2489

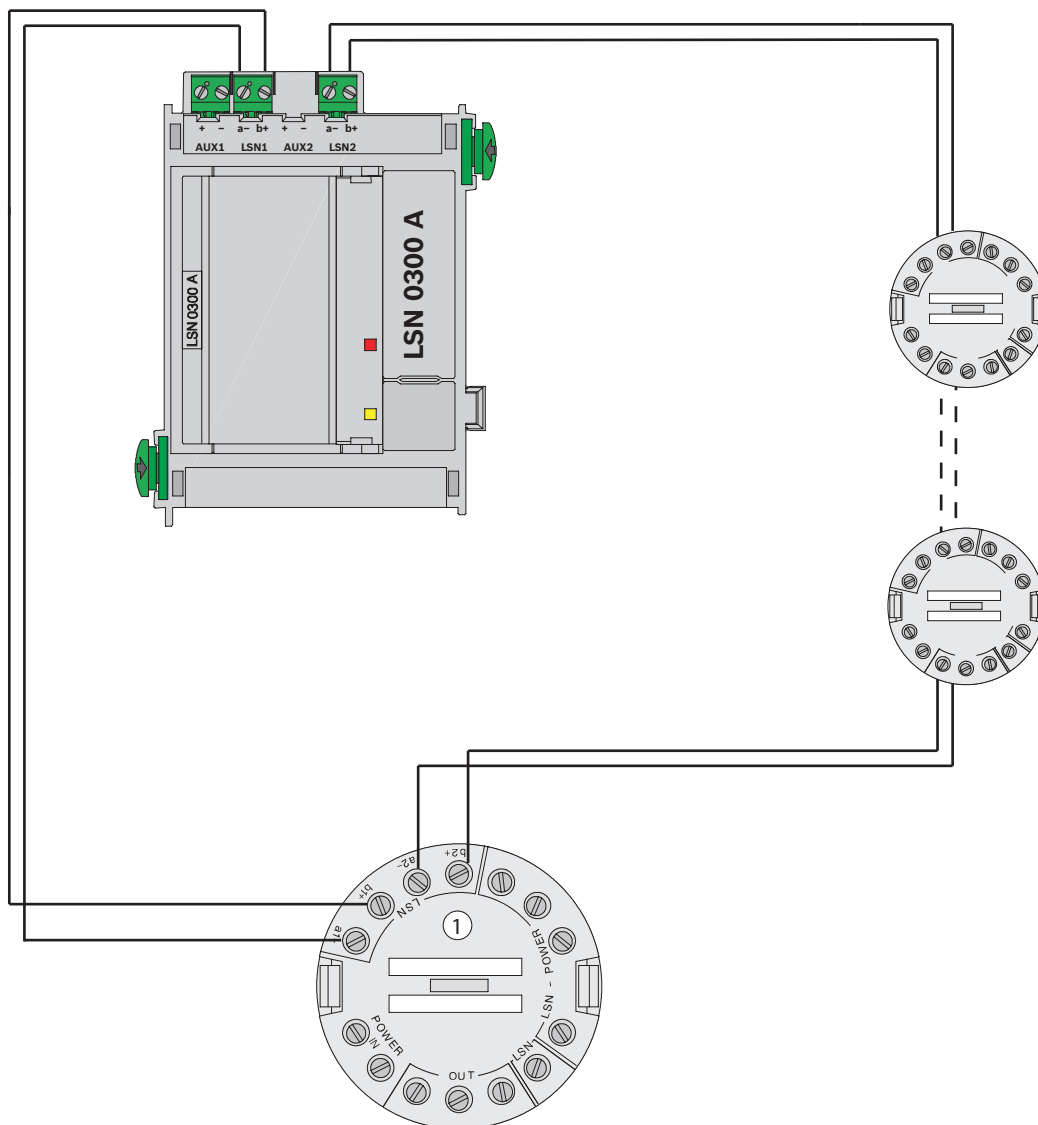




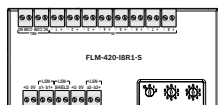
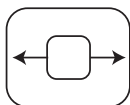
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**FLM-420-RLV1-E**



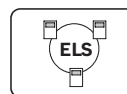
**VdS 2489**



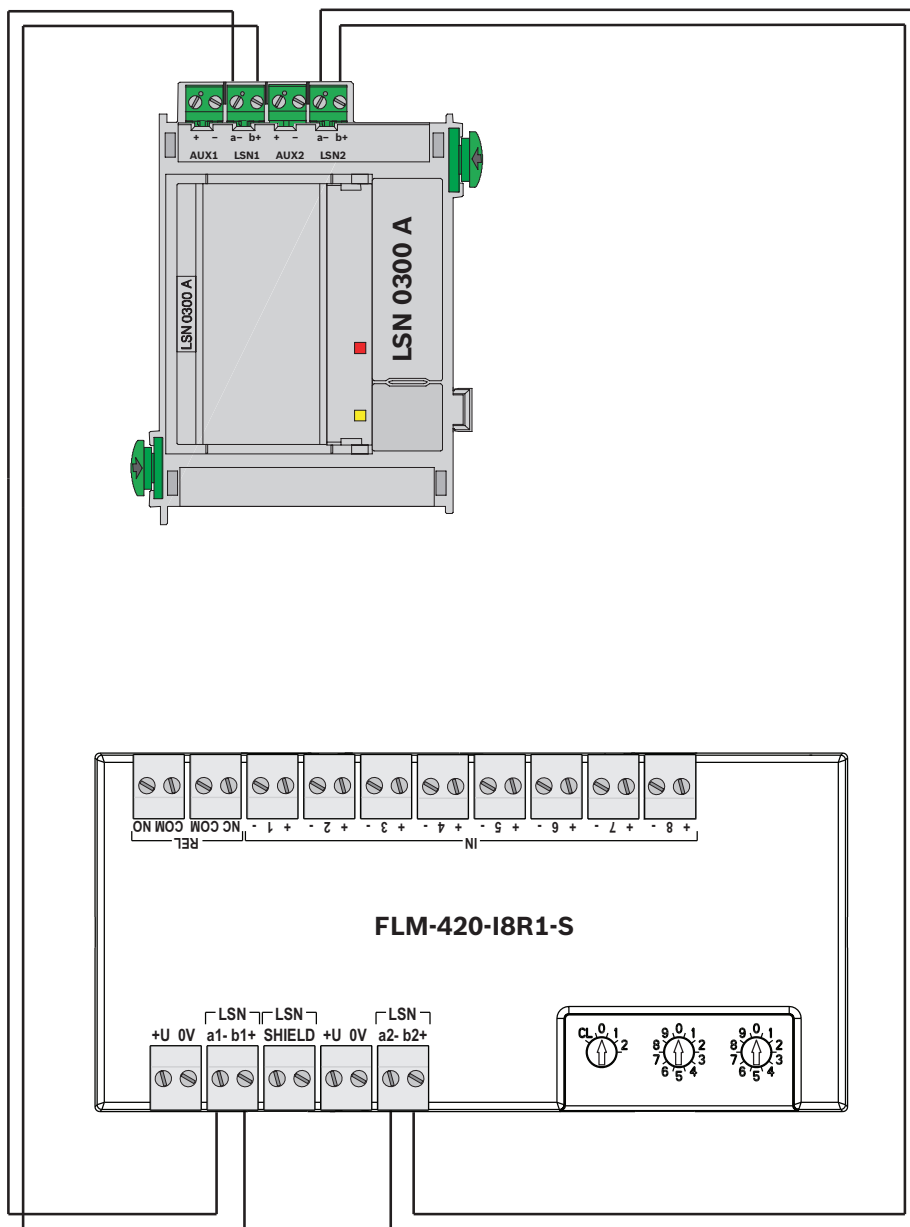


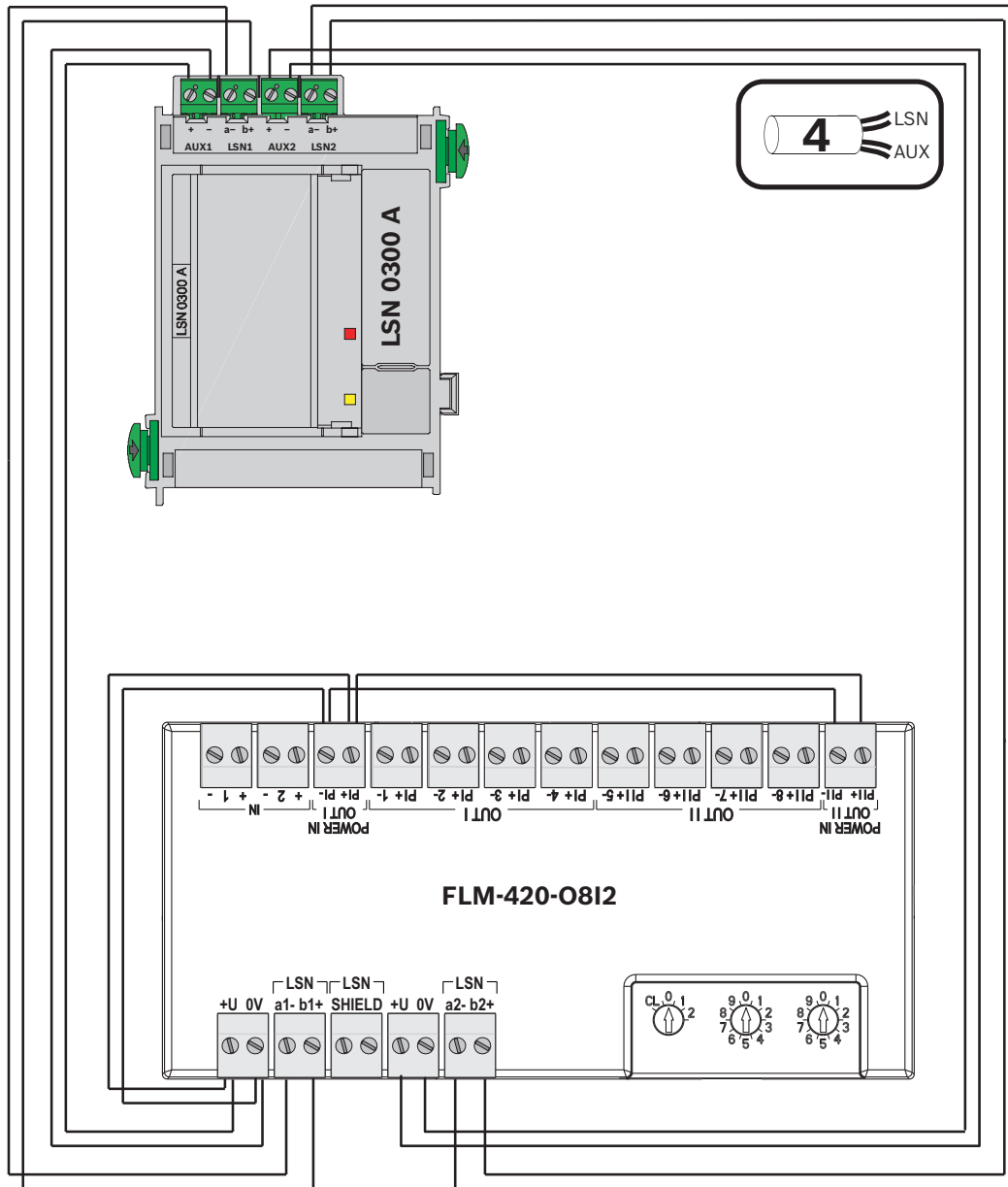
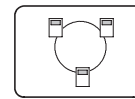
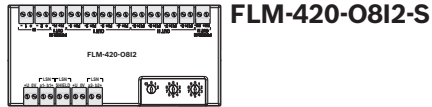
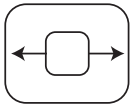


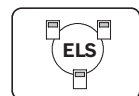
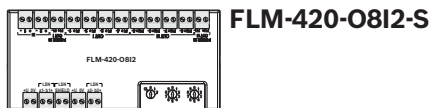
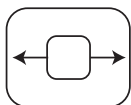
FLM-420-I8R1-S



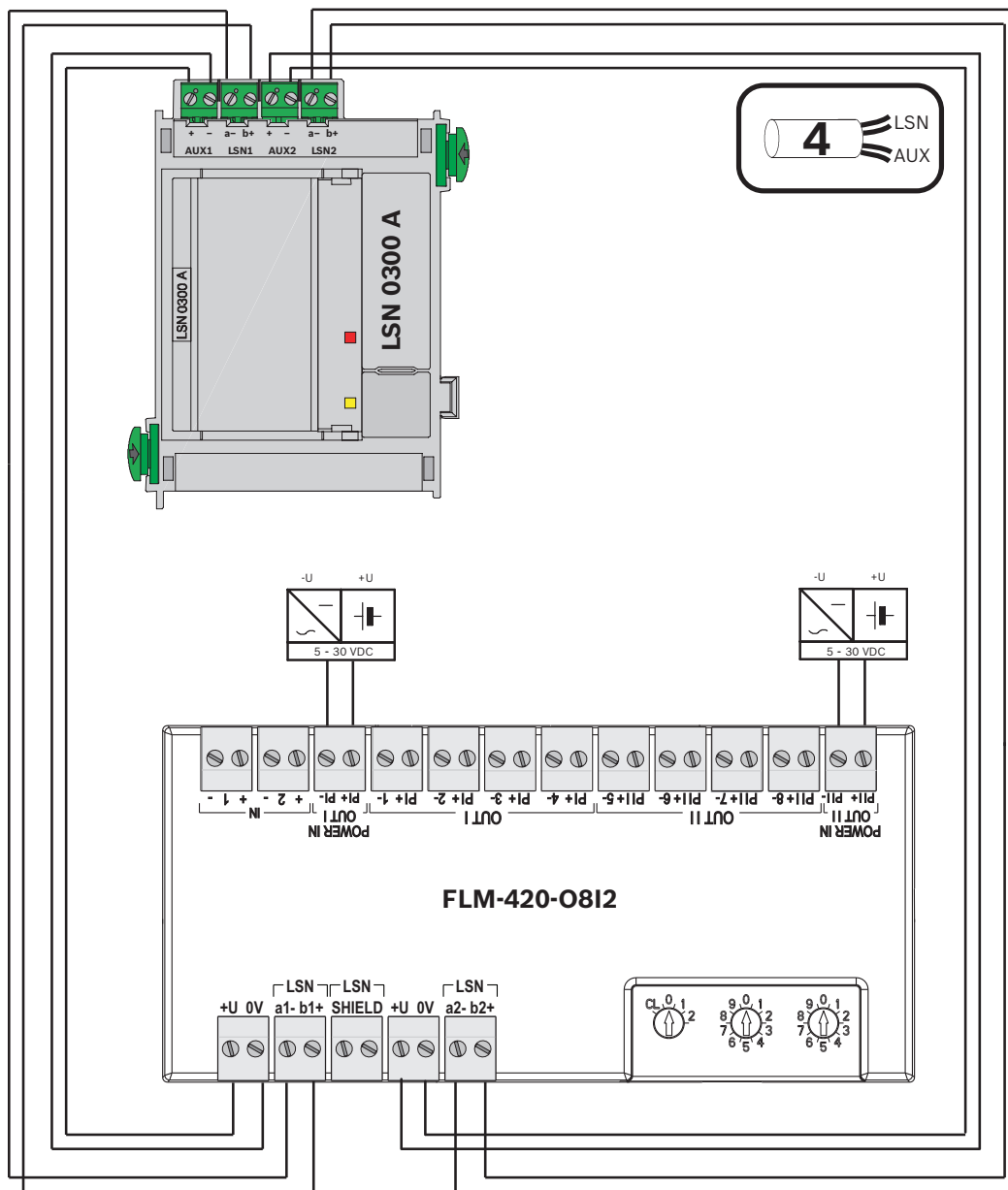
VdS 2489

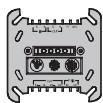
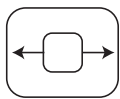




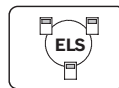


VdS 2489

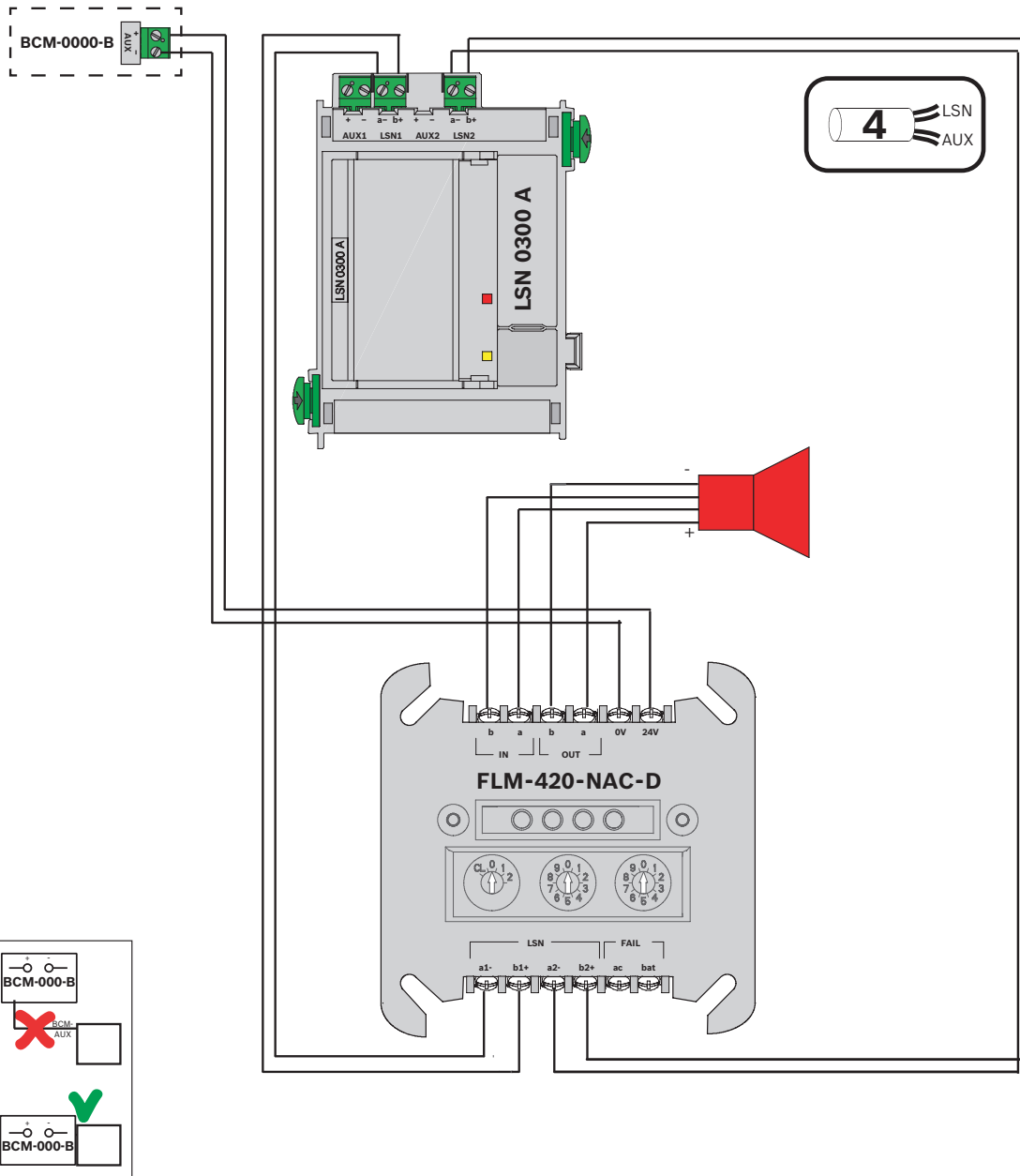


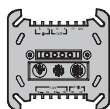
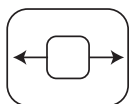


FLM-420-NAC-D/S

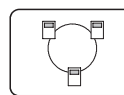


VdS 2489

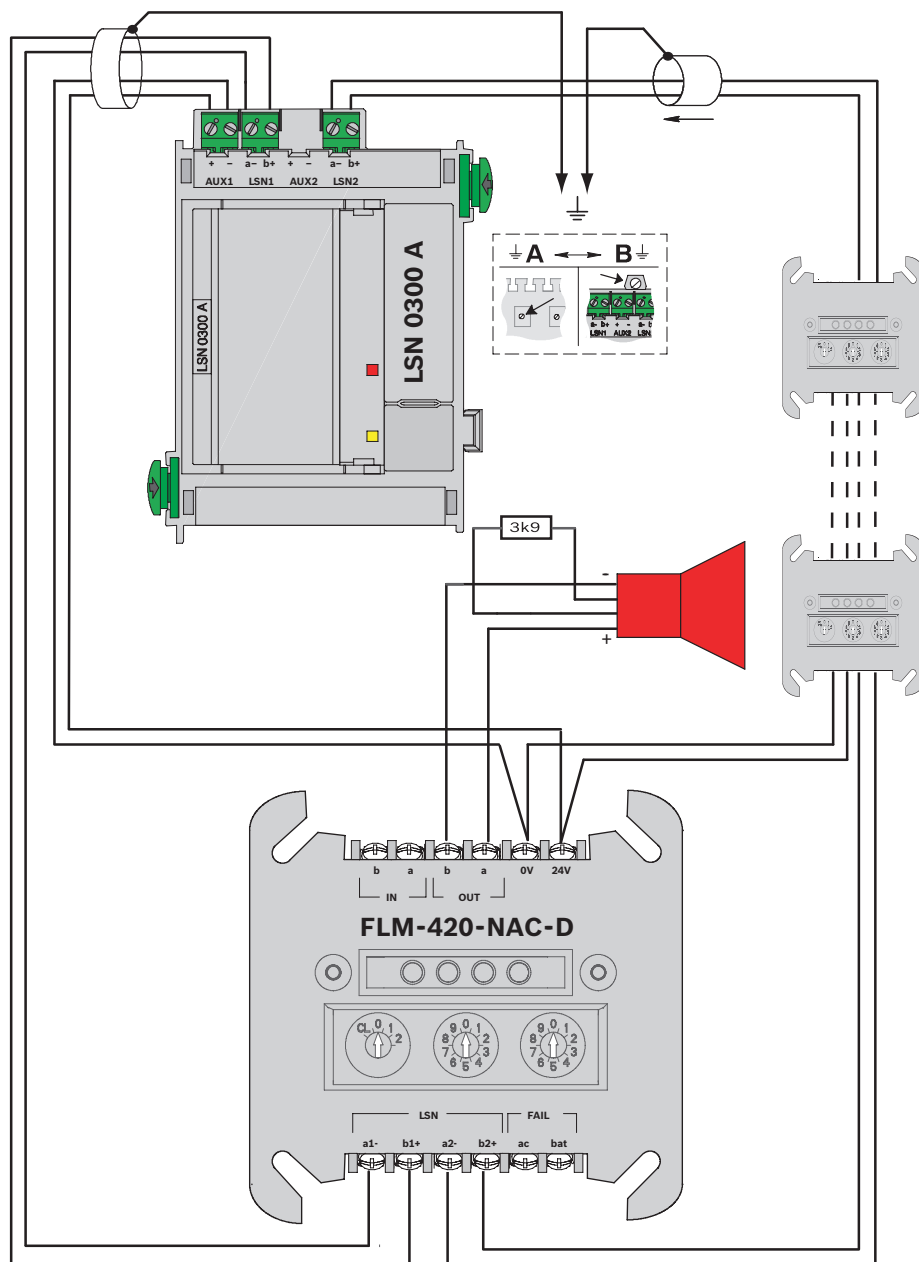


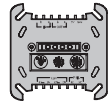
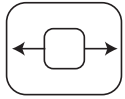


FLM-420-NAC-D/S

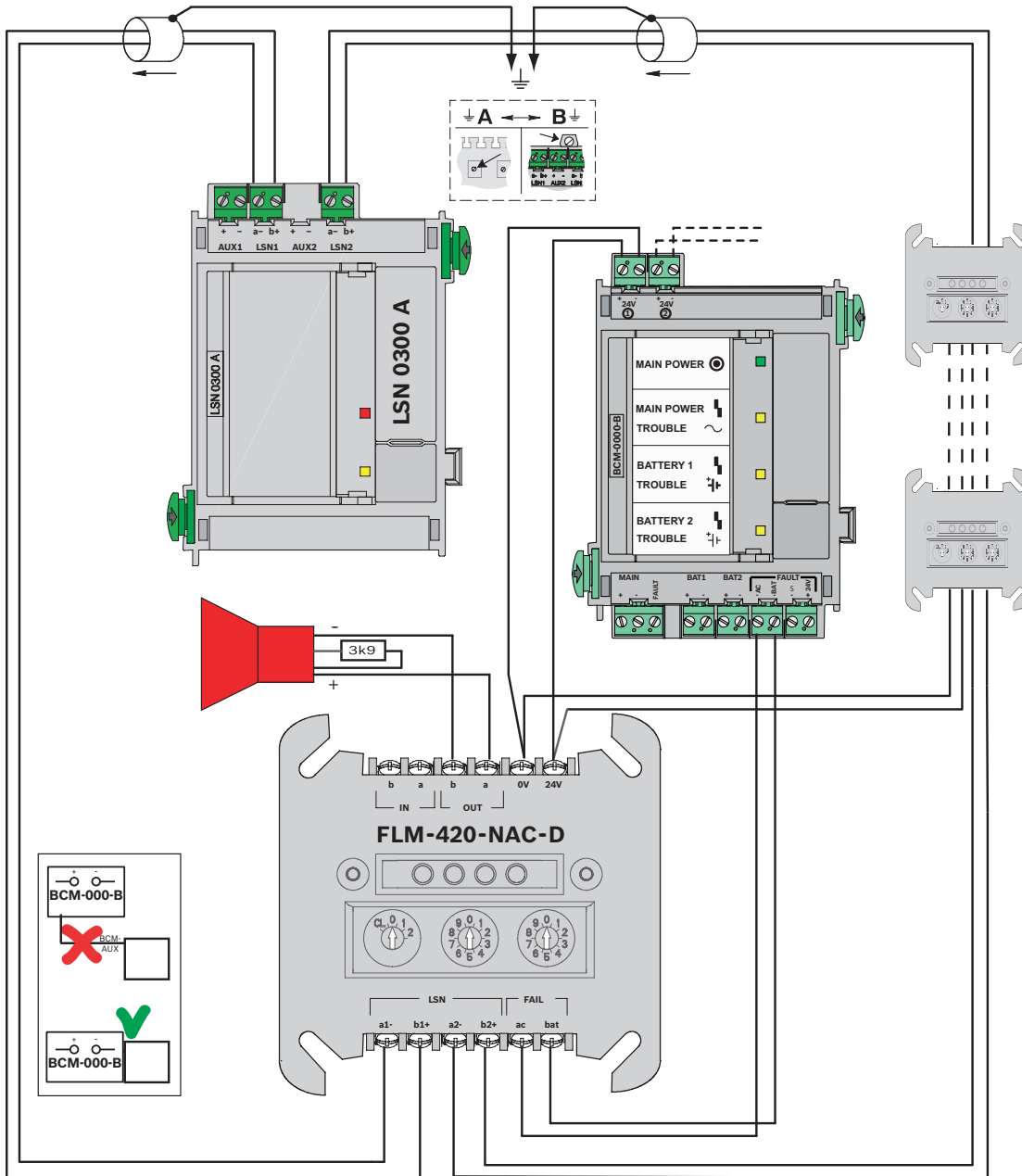
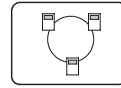


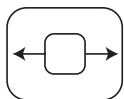
EN 54-2



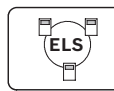


FLM-420-NAC-D/S

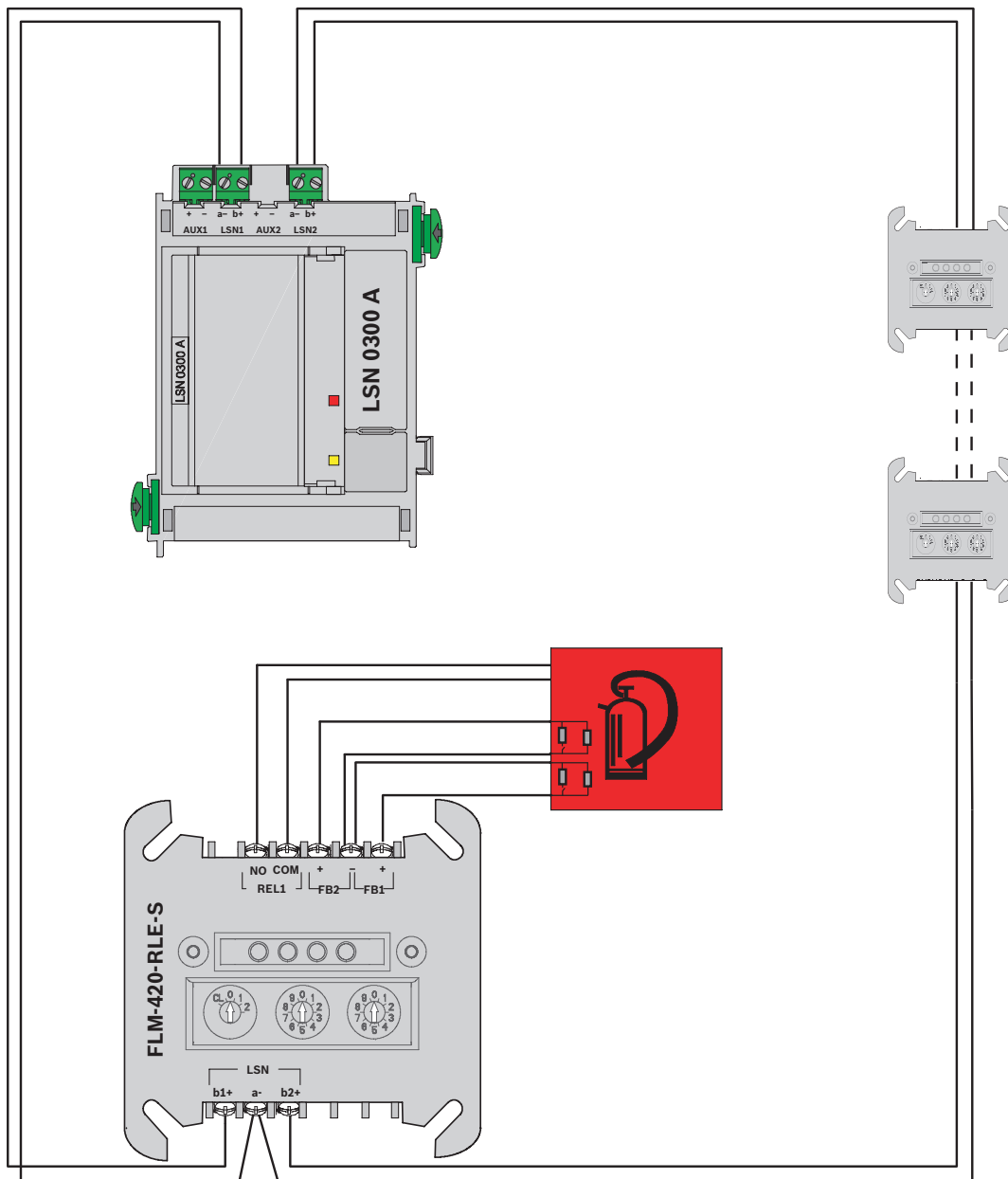


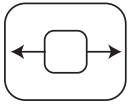


FLM-420-RLE-S

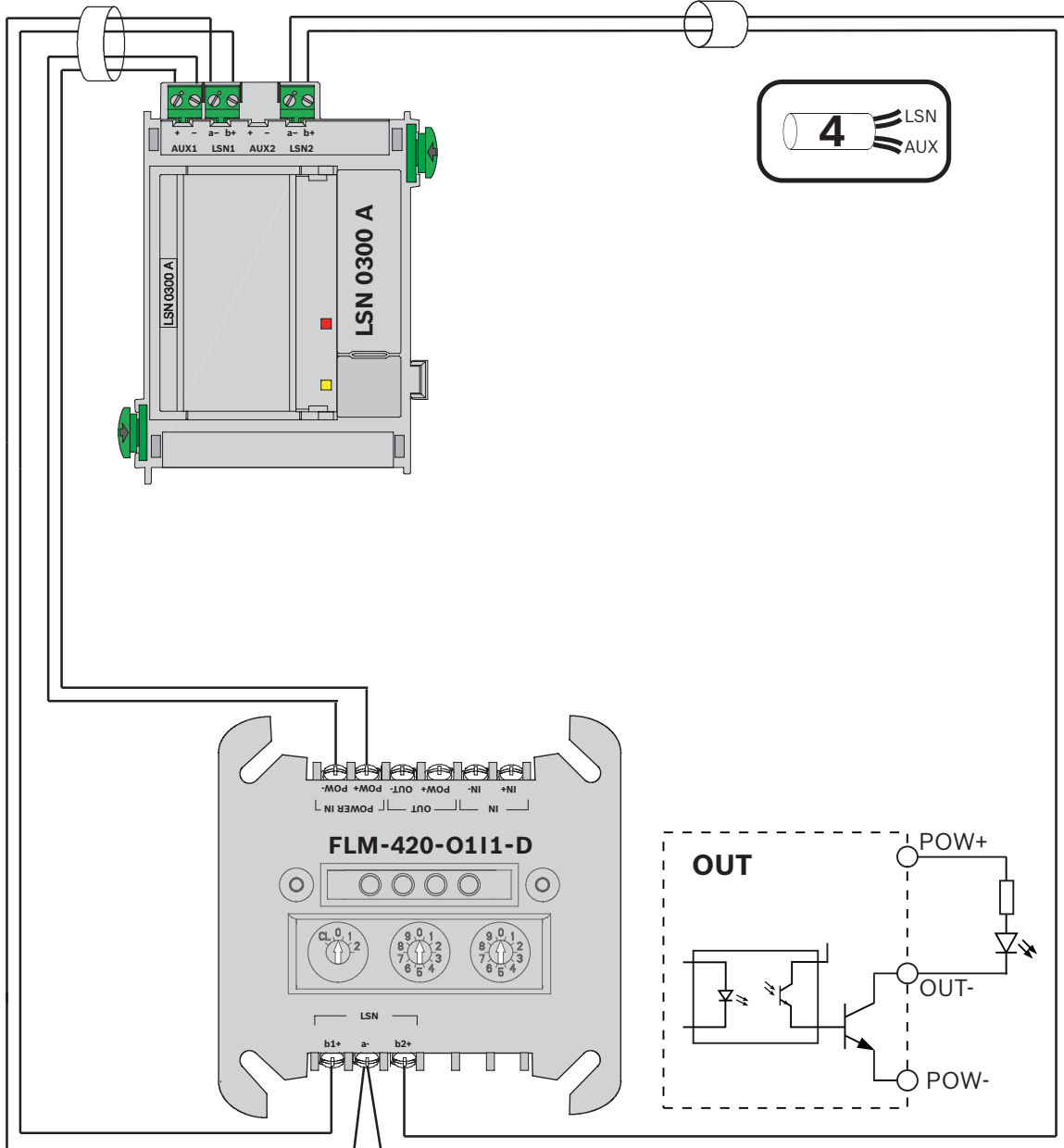
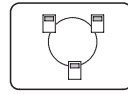


VdS 2489

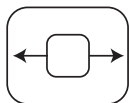




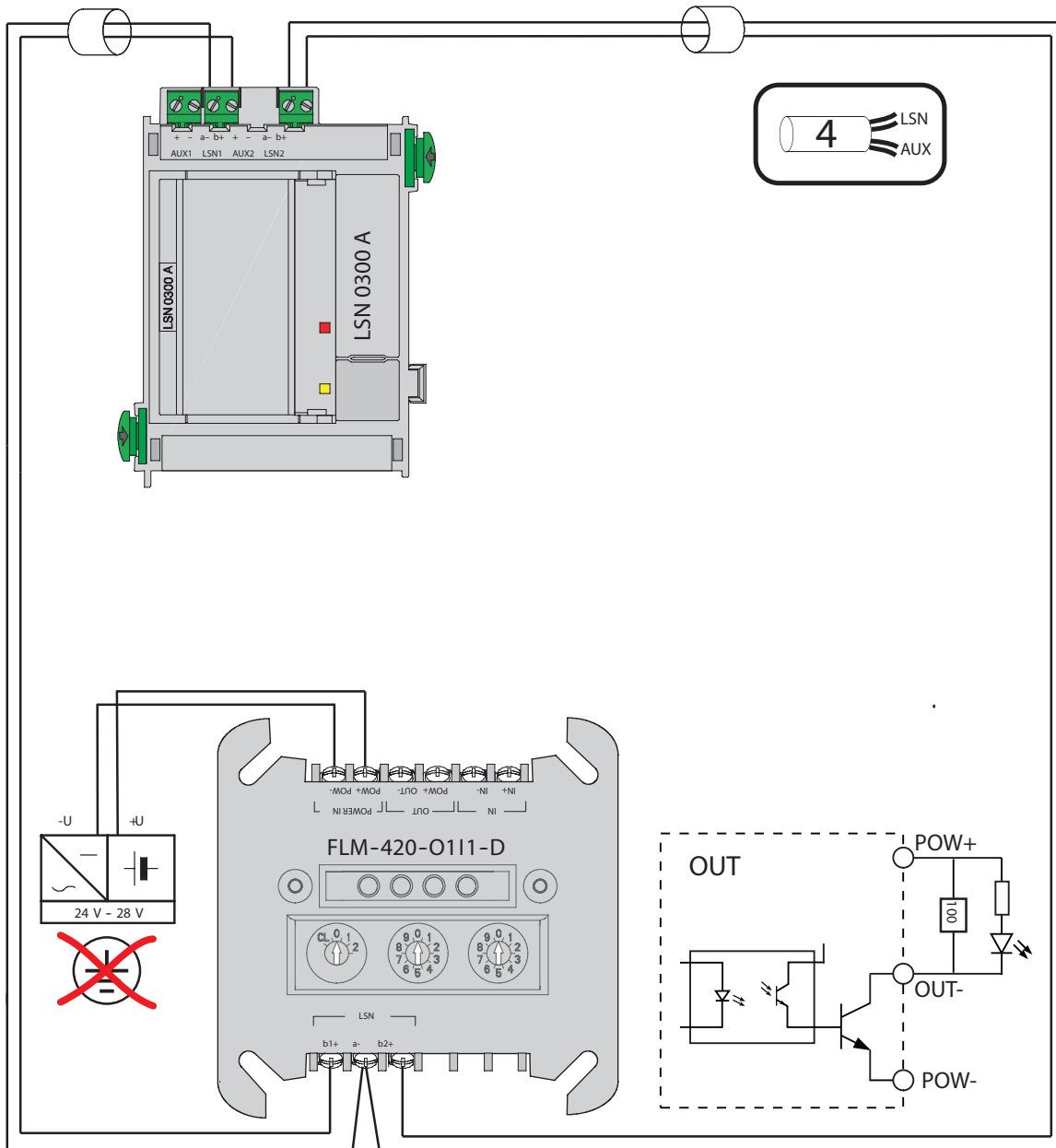
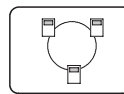
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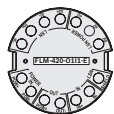
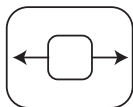




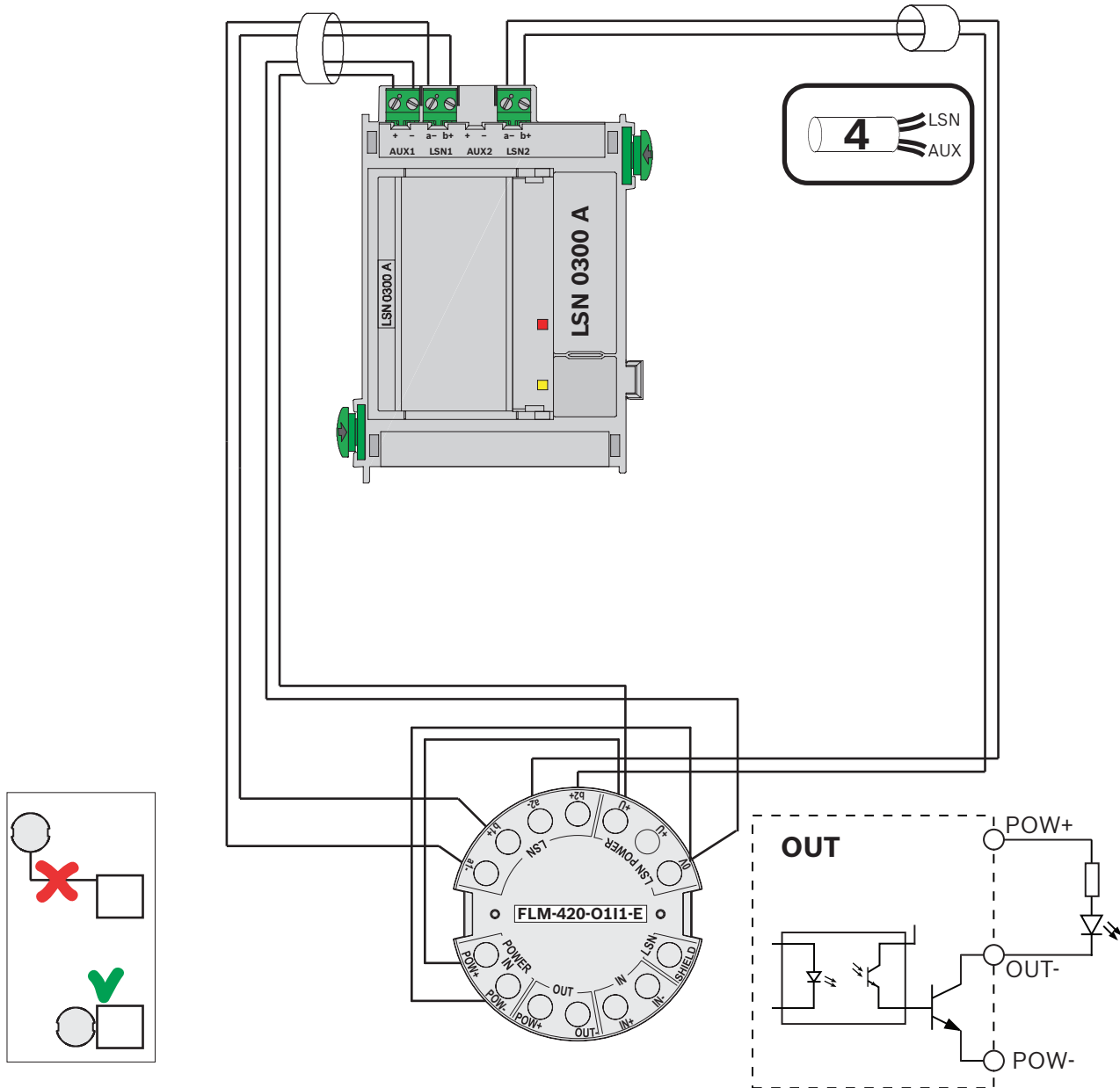
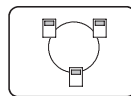


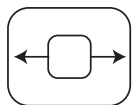
FLM-420-O111-D



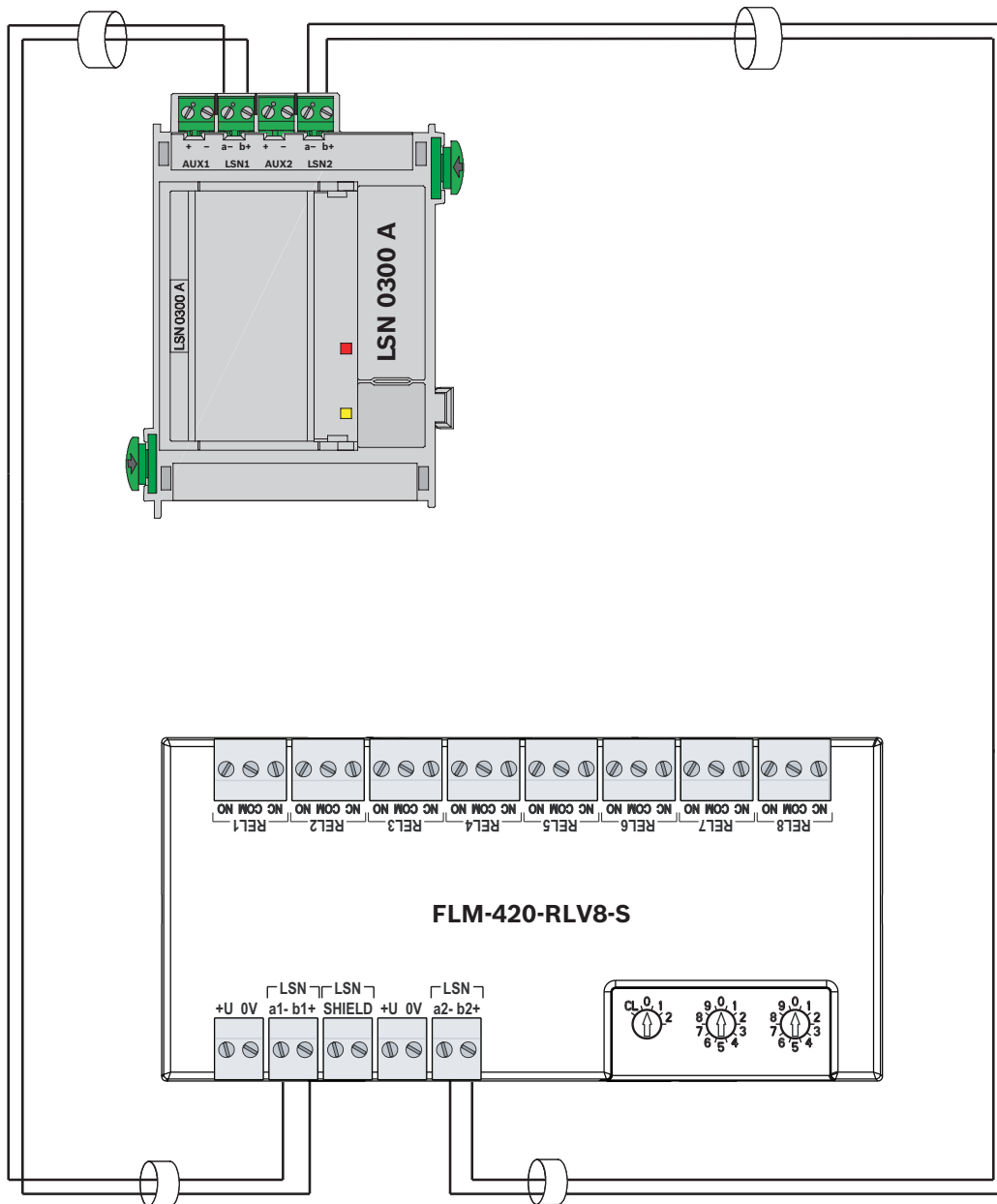
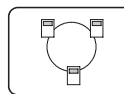


FLM-420-0111-E



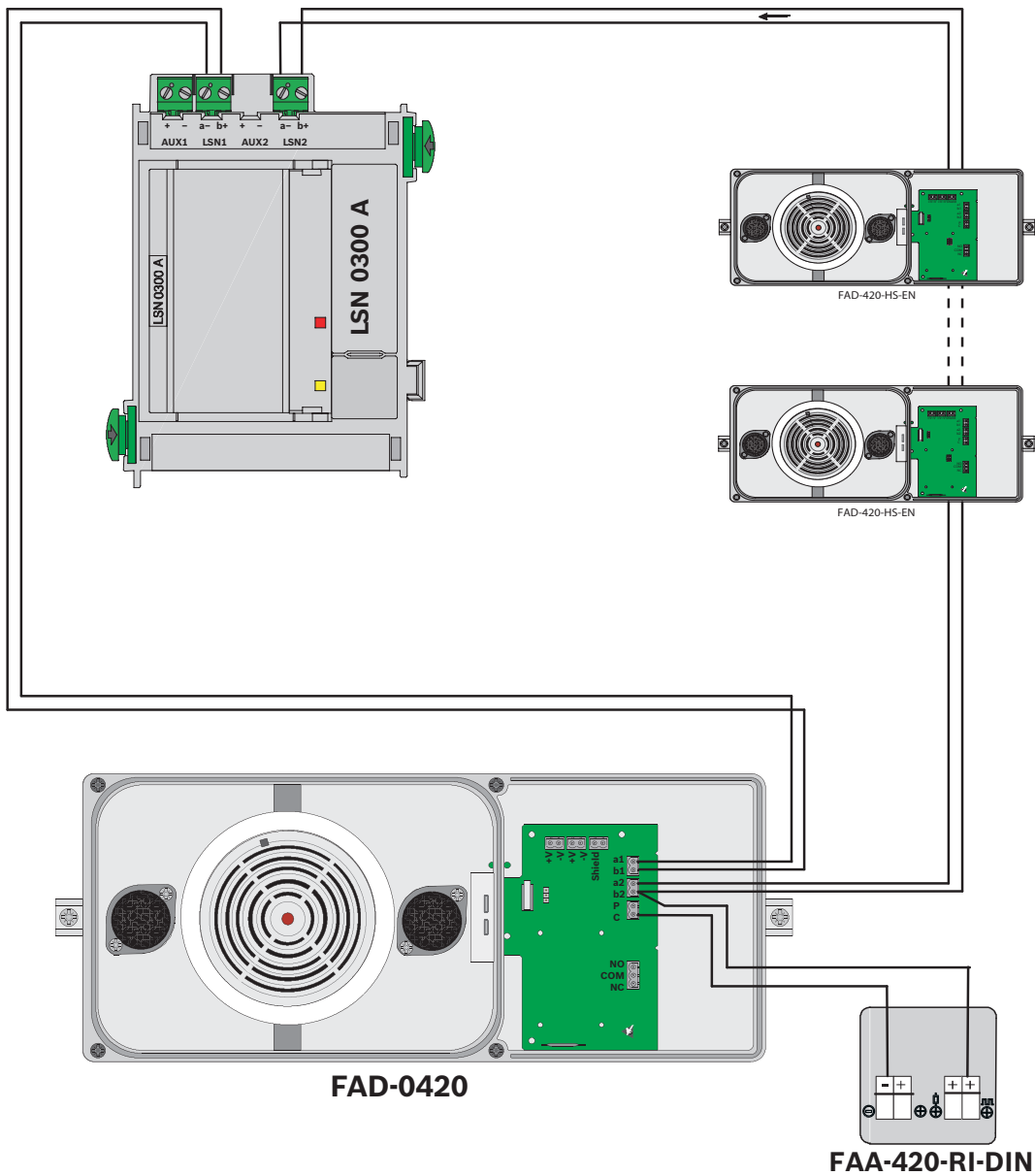


**FLM-420-RLV8-S**



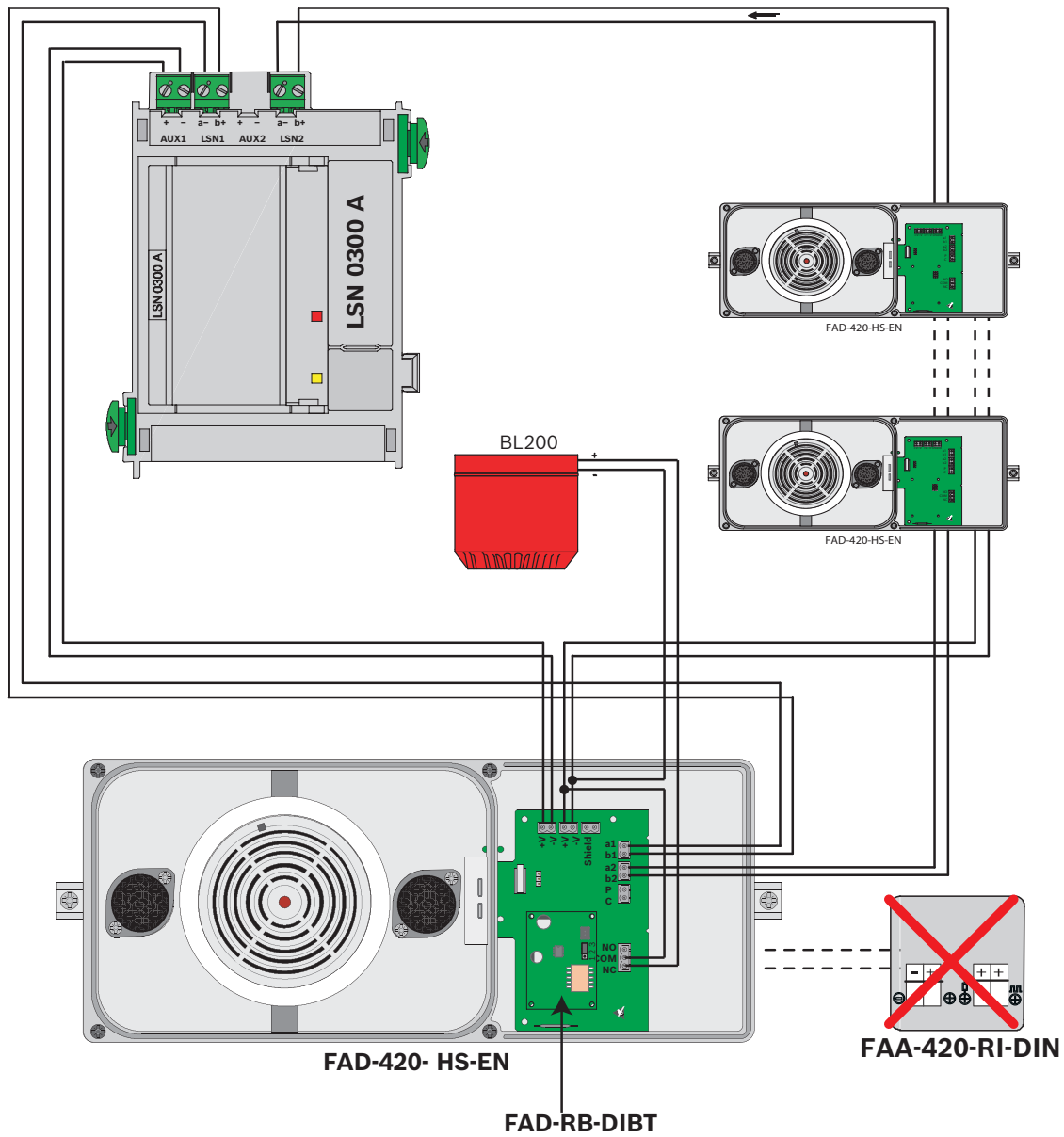


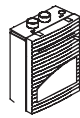
FAD-0420



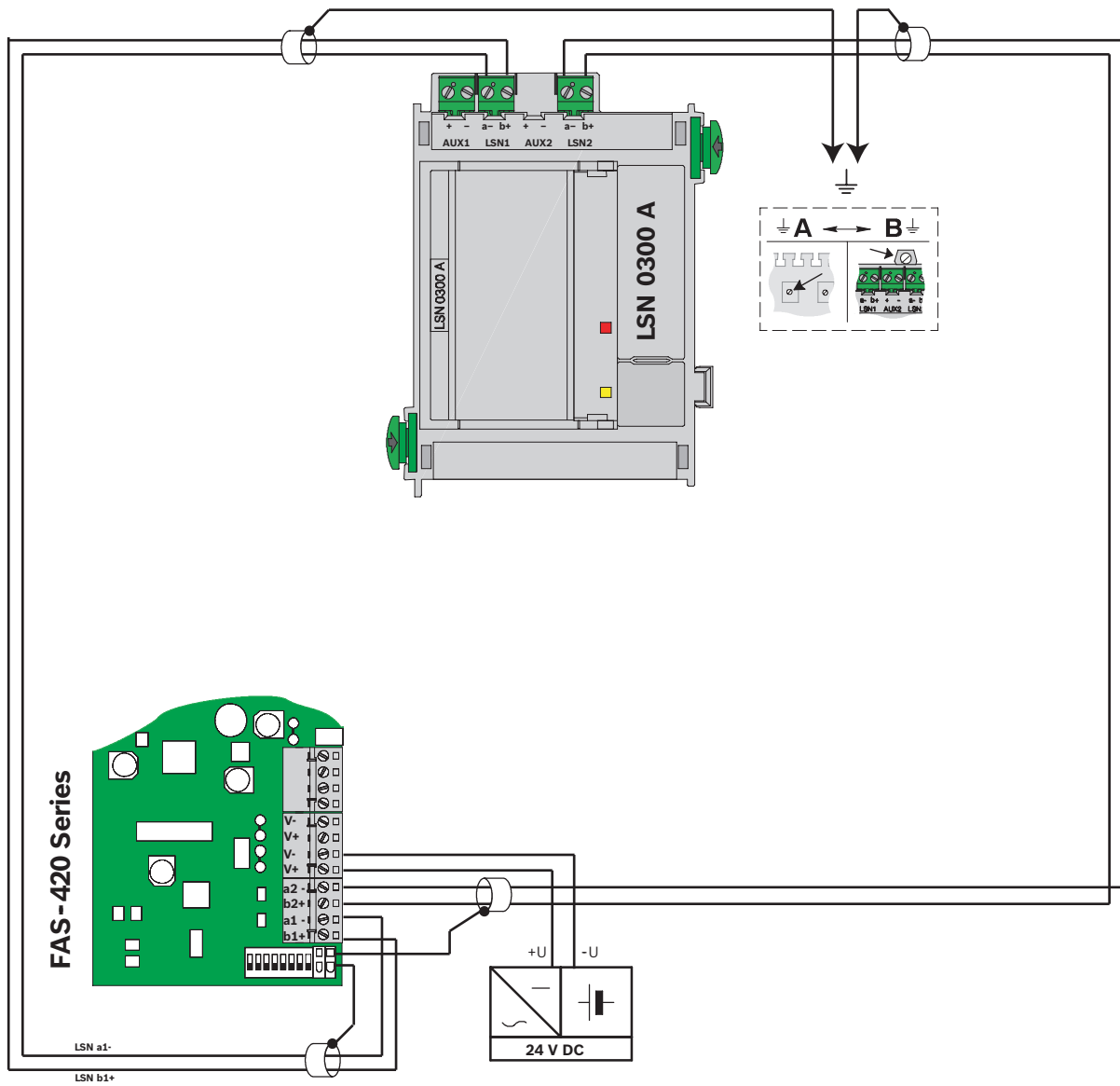


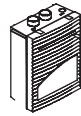
**FAD-420-HS-EN**



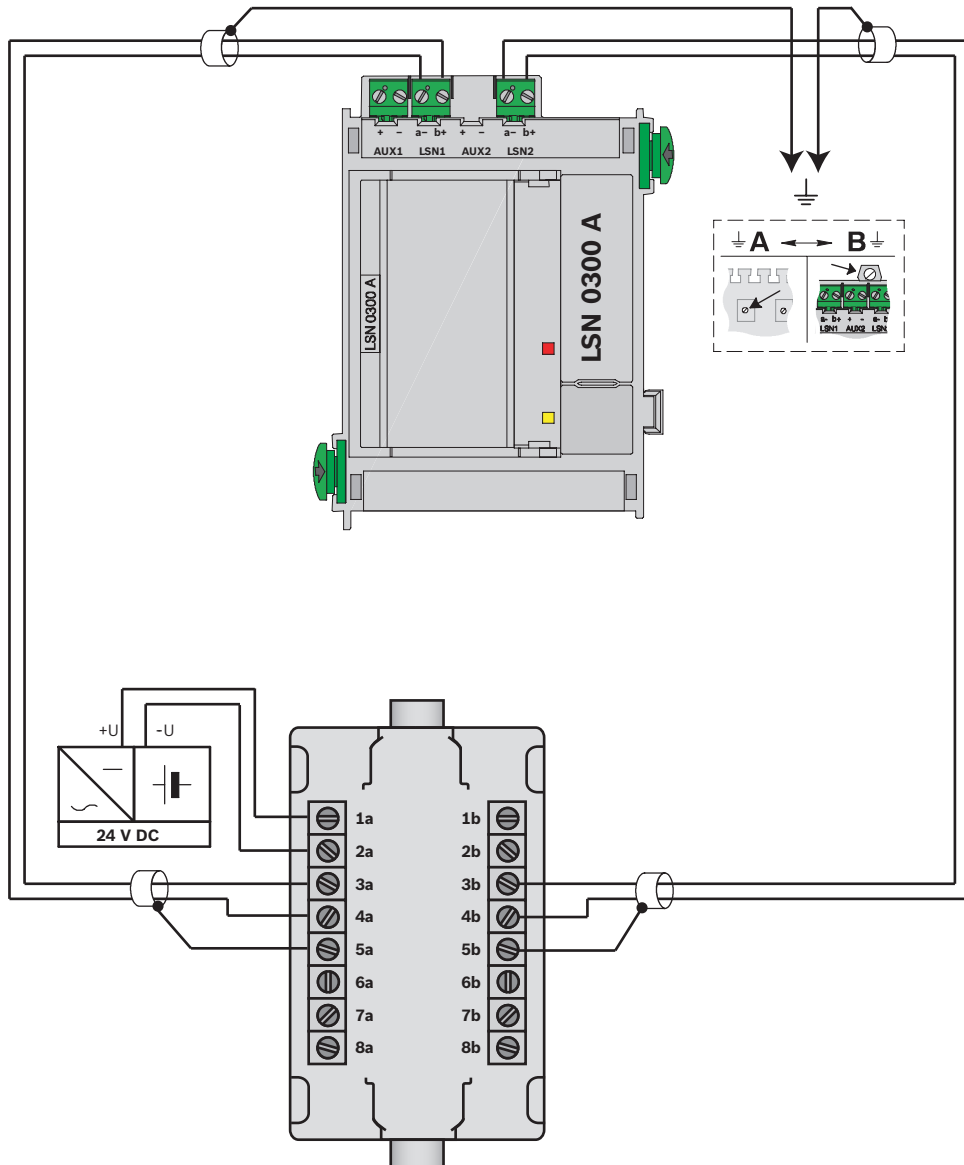


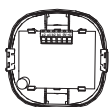
**FAS-420 Series**



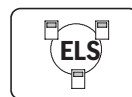


FAS-420-TM Series

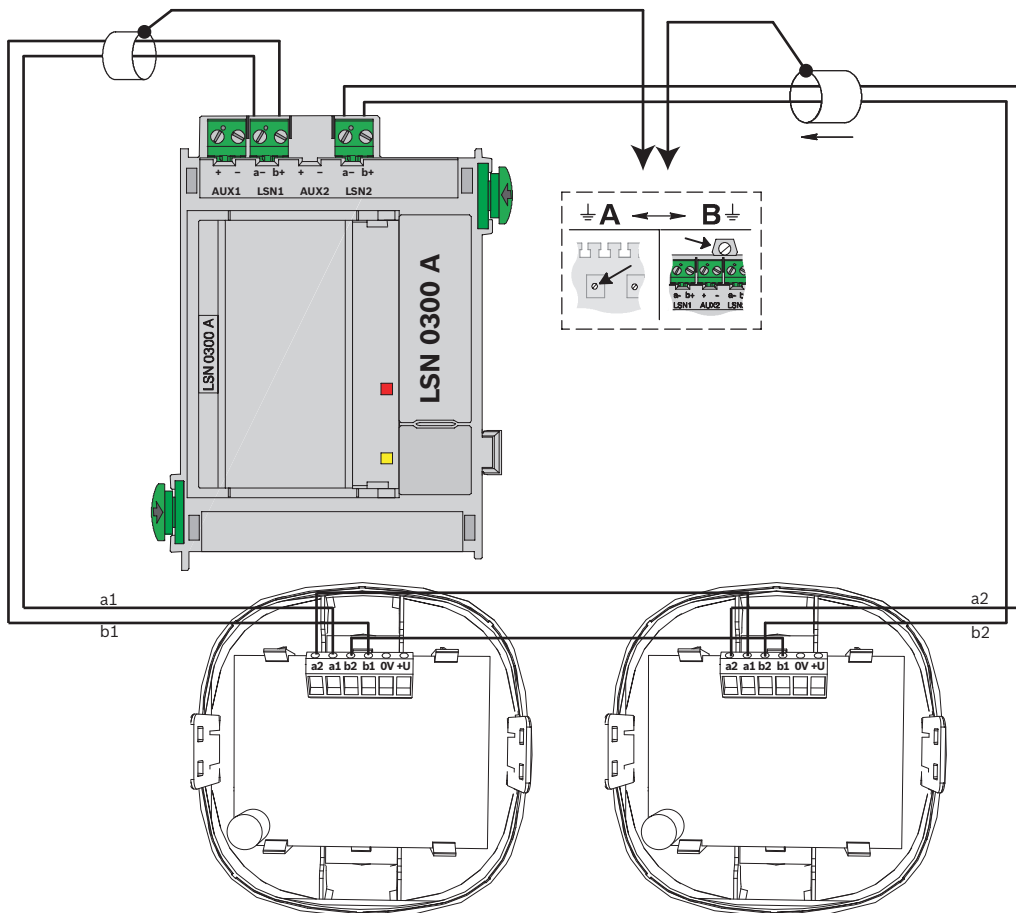




**FNM-420-A / -B**  
**FNM-420U-A / -B**  
**FNM-420V-A**



**VdS 2489**



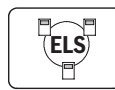
**FNM-420-A/-B**  
**FNM-420U-A/-B**  
**FNM-420V-A**

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

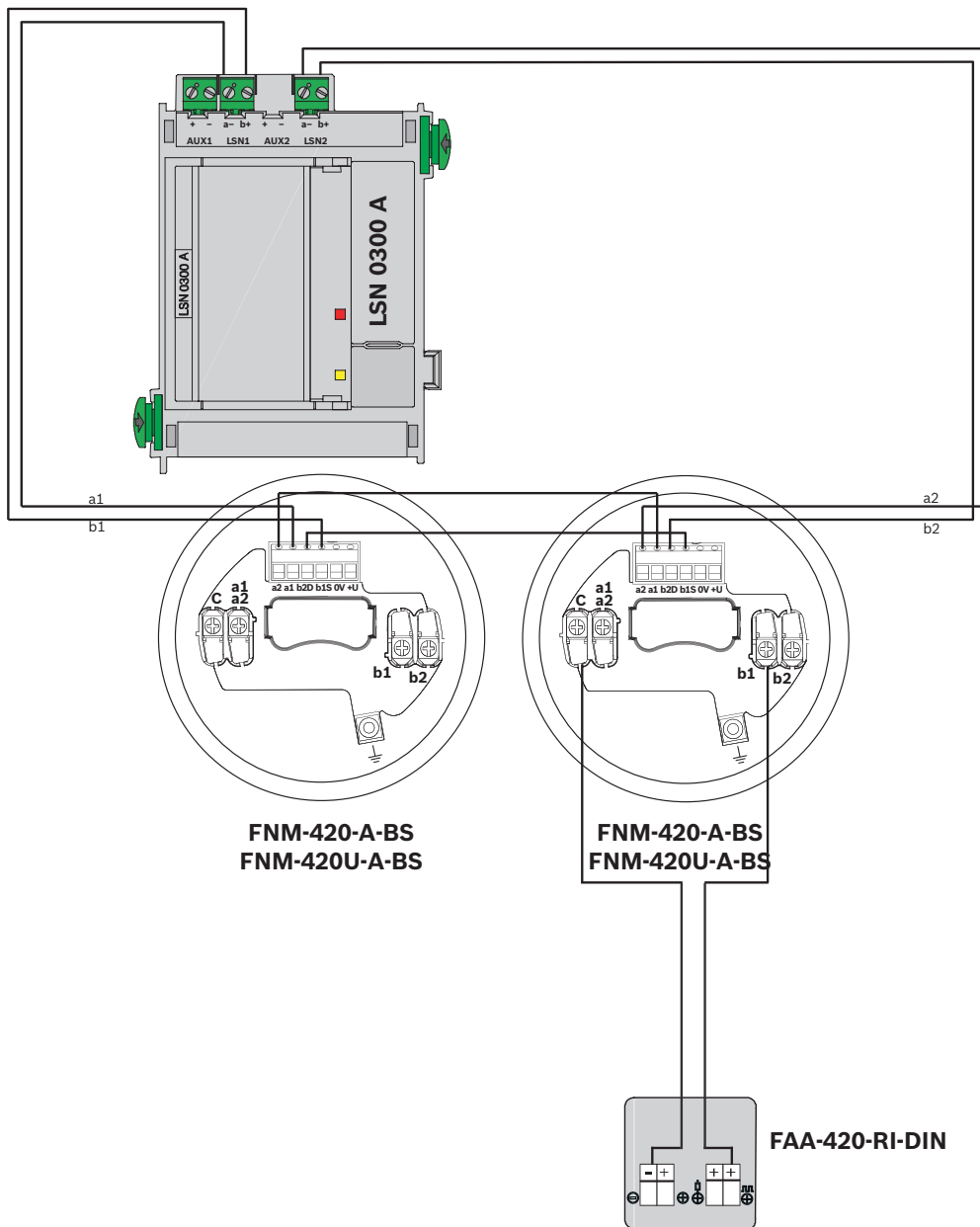




**FNM-420-A-BS**  
**FNM-420U-A-BS**

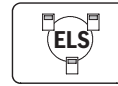


**VdS 2489**

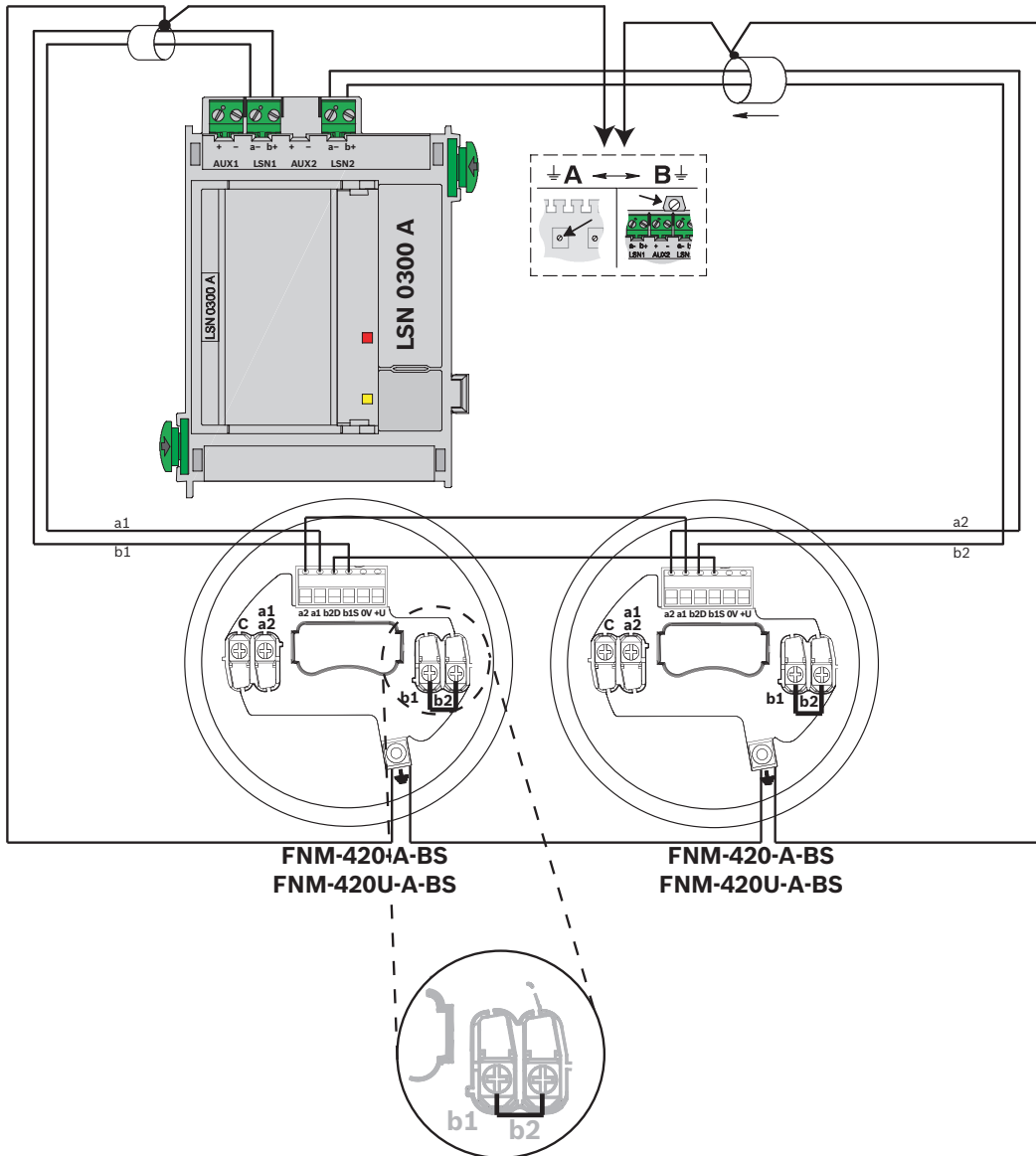




**FNM-420-A-BS**  
**FNM-420U-A-BS**

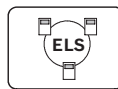


**VdS 2489**

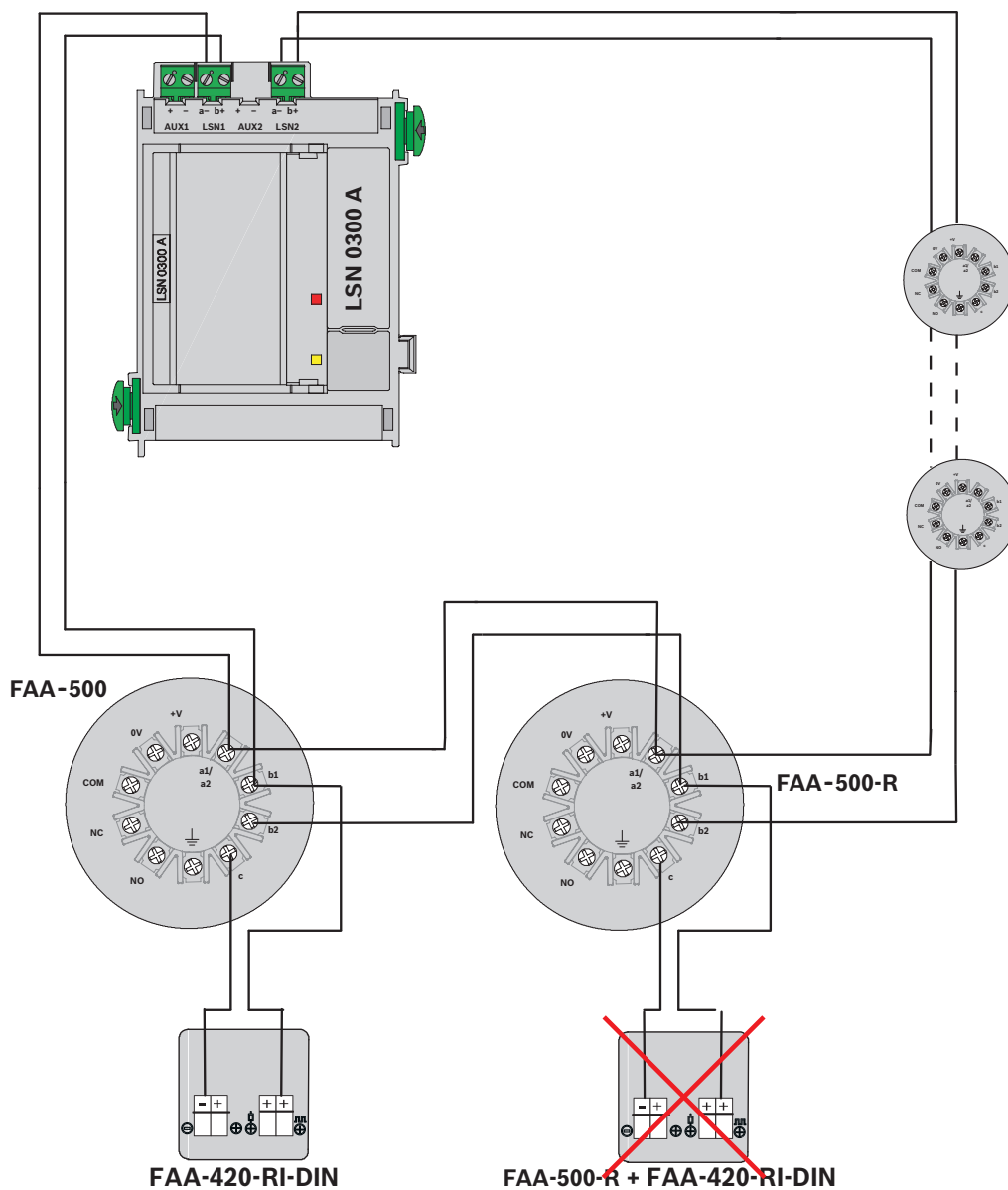




FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P

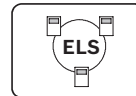


VdS 2489

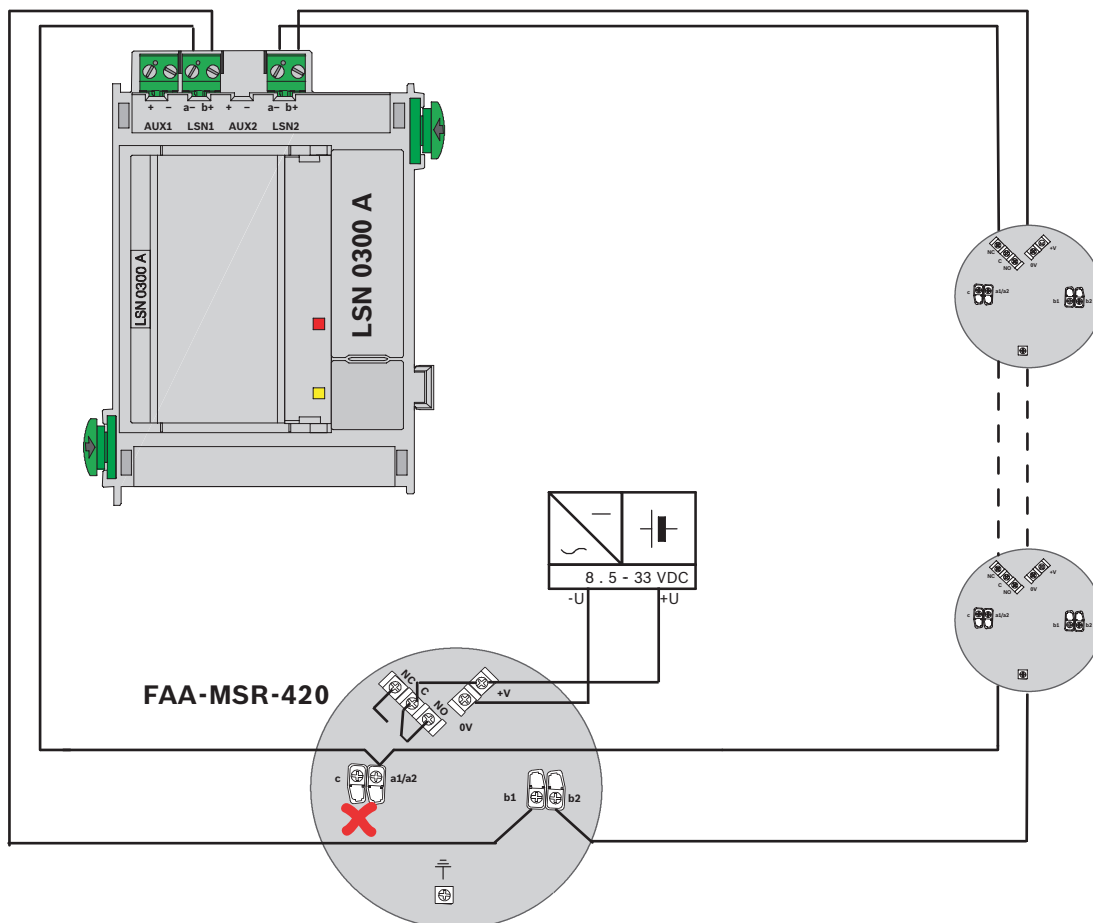




FAP-425-O/O-R  
 FAP-425-OT/OT-R  
 FAP-425-T-R  
 FAP-425-DO-R/DOT-R/DOTC-R

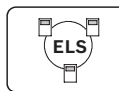


VdS 2489

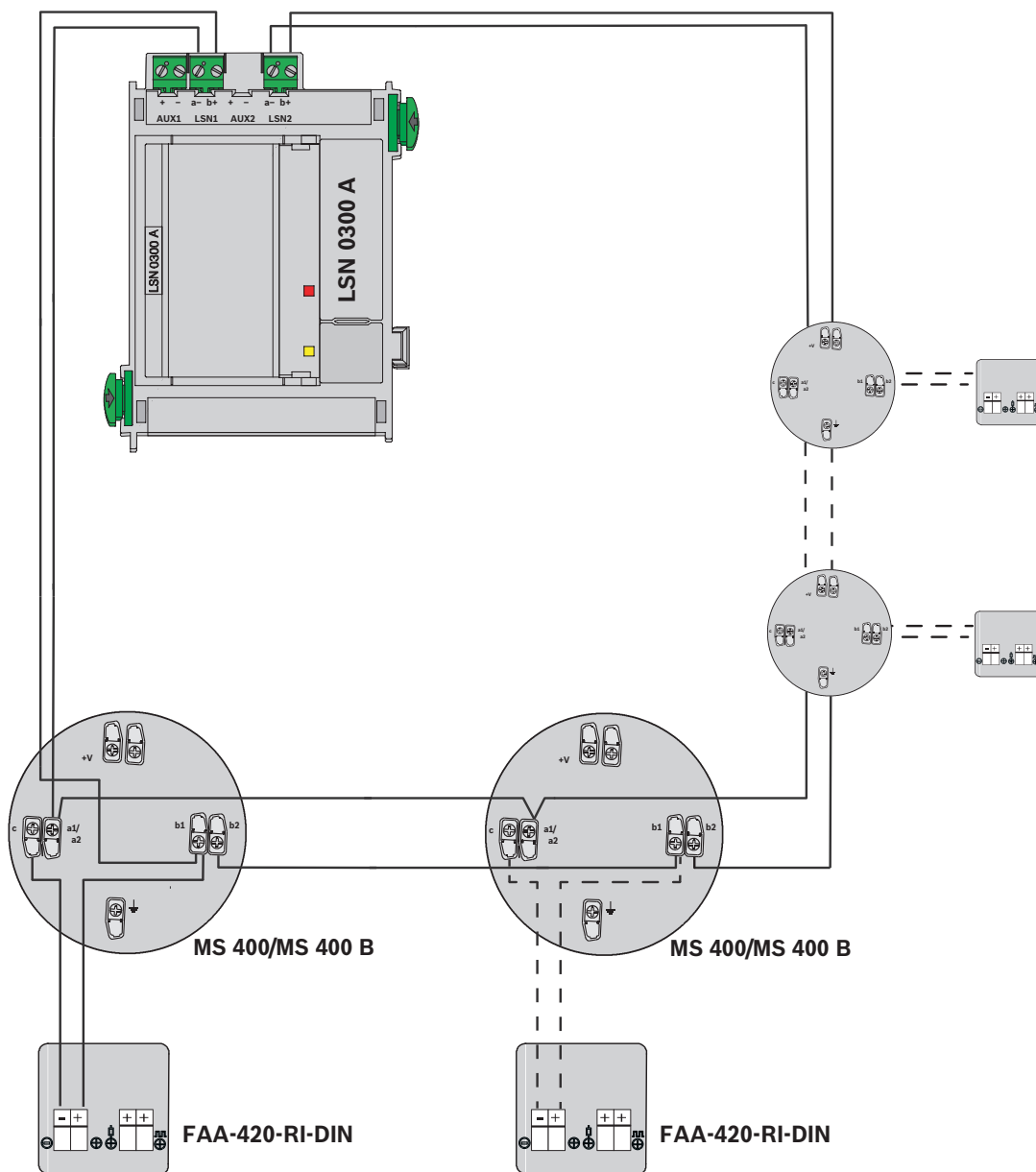


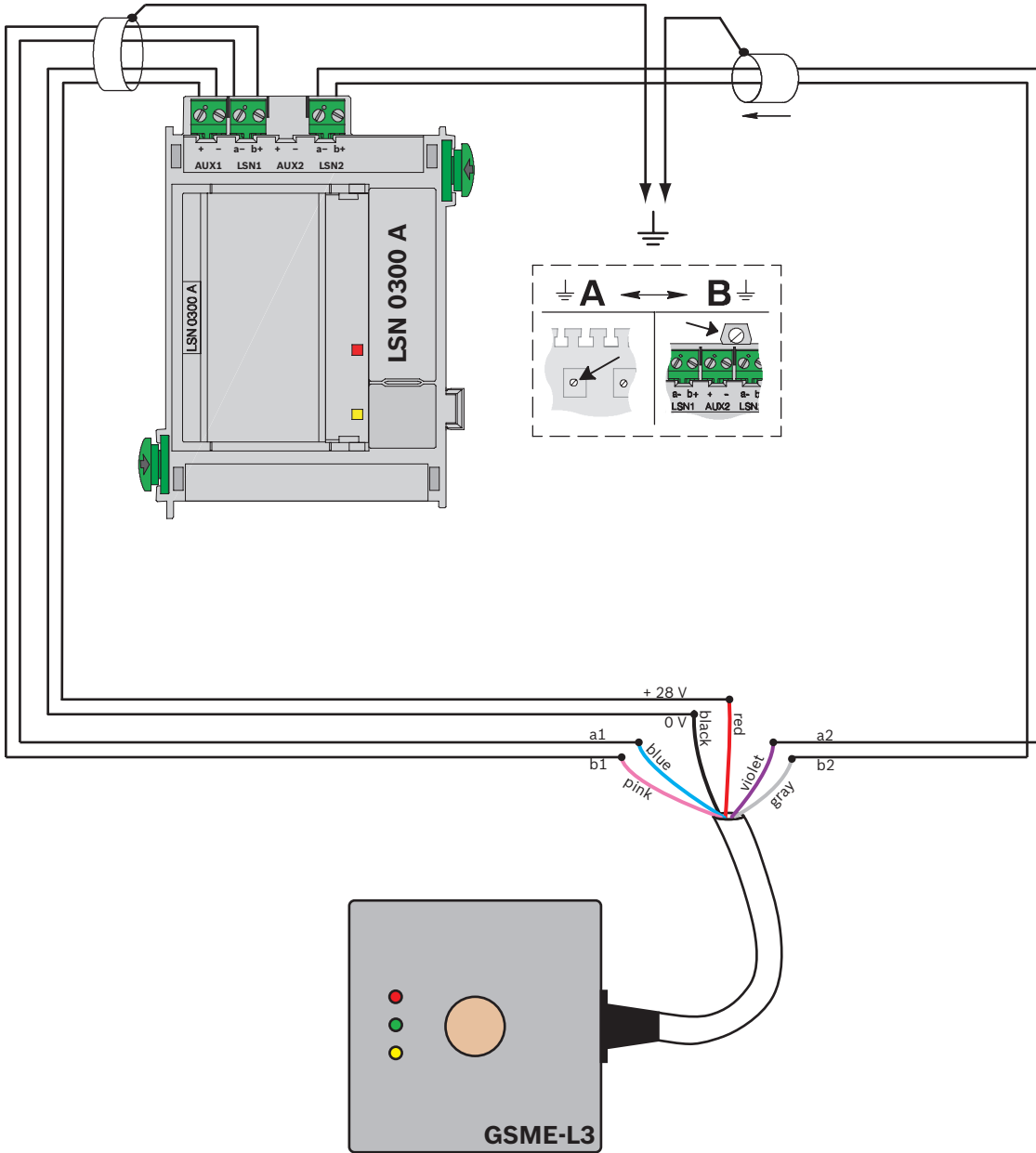
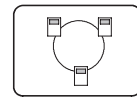
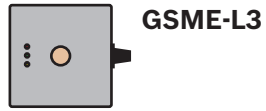


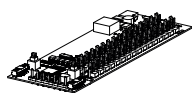
FAP-425-O/-O-R/-OT/-OT-R/-T-R  
 FAP-425-DO-R/DOT-R/DOTC-R  
 FCH-320-T320/-T320-R470/-T320-FSA  
 FCP-O320/-O320-R470  
 FCP-OC320/-OC320-R470  
 FCP-OT320/-OT320-R470



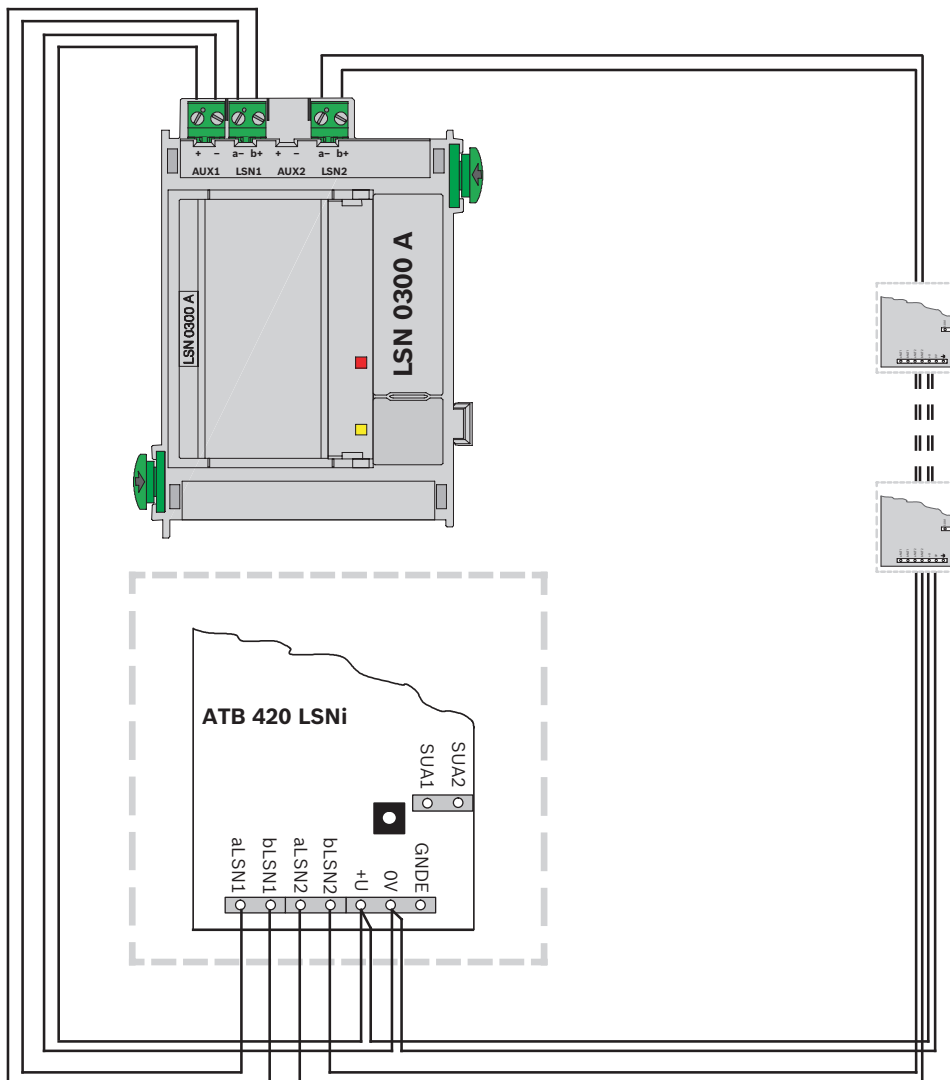
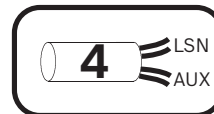
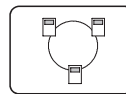
Vds 2489





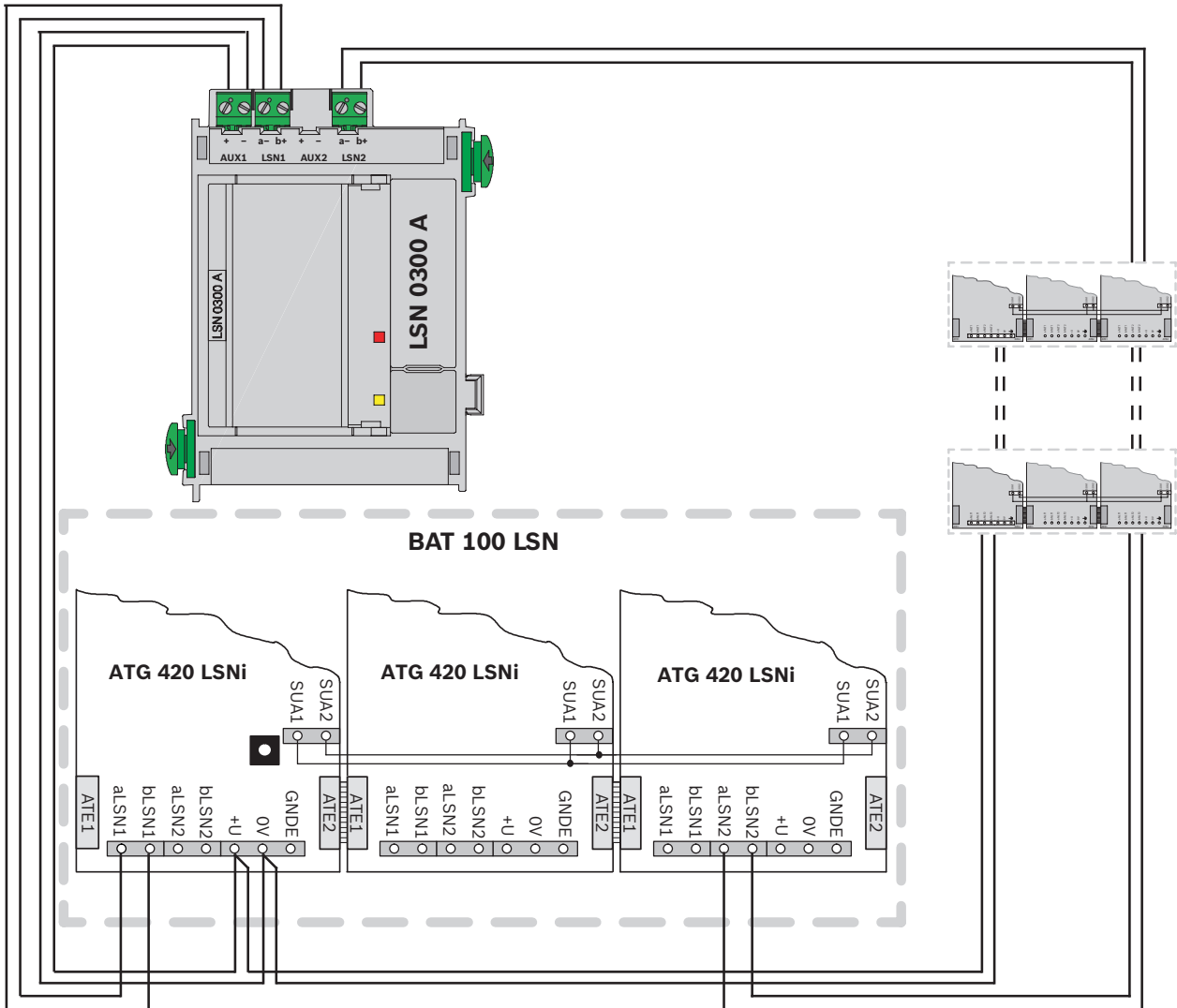
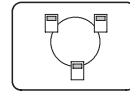


ATB 420 LSNi

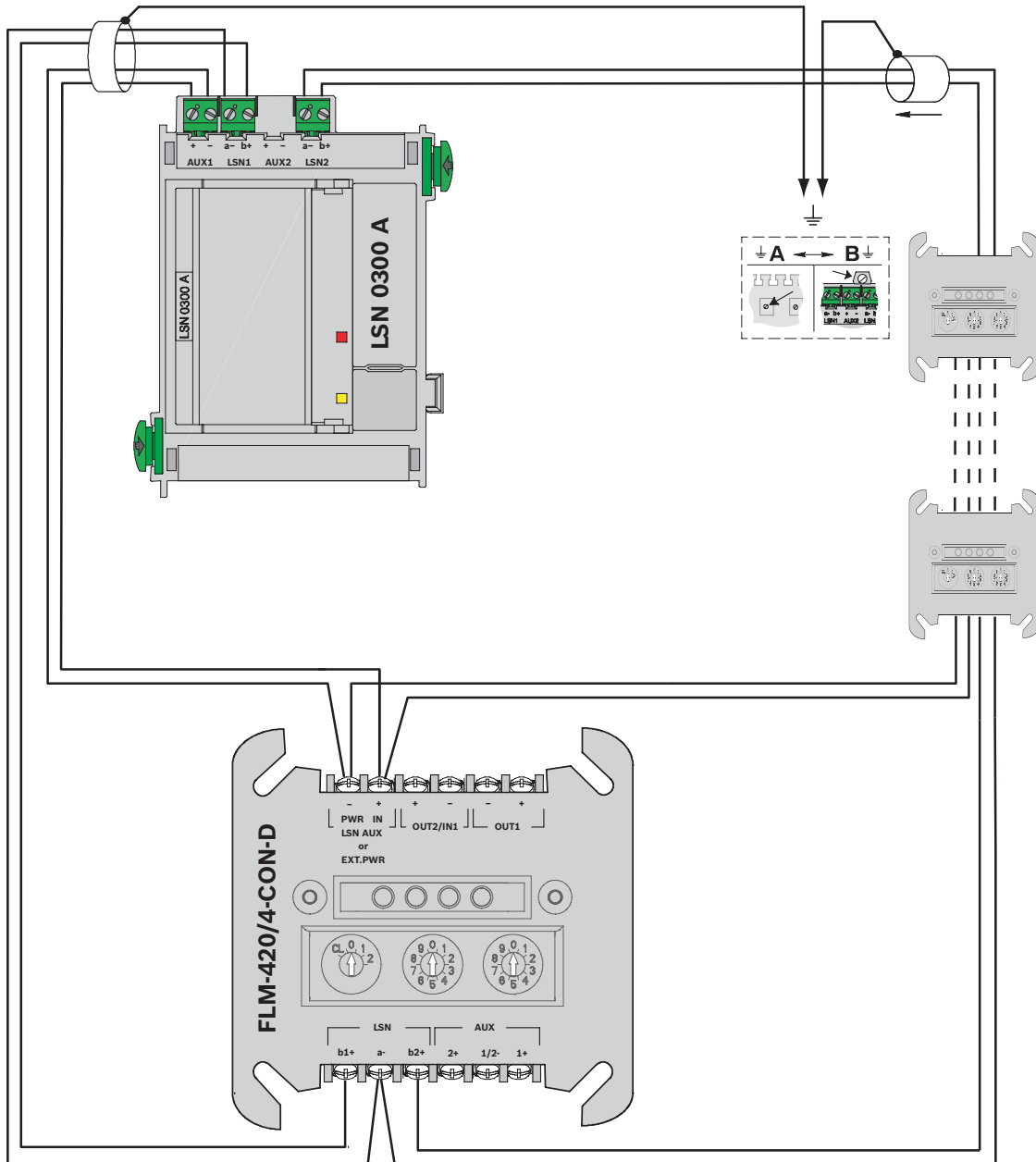
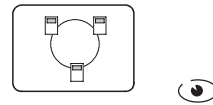
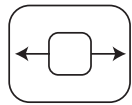


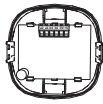


**BAT 100 LSN**  
**ATG 420 LSNi**

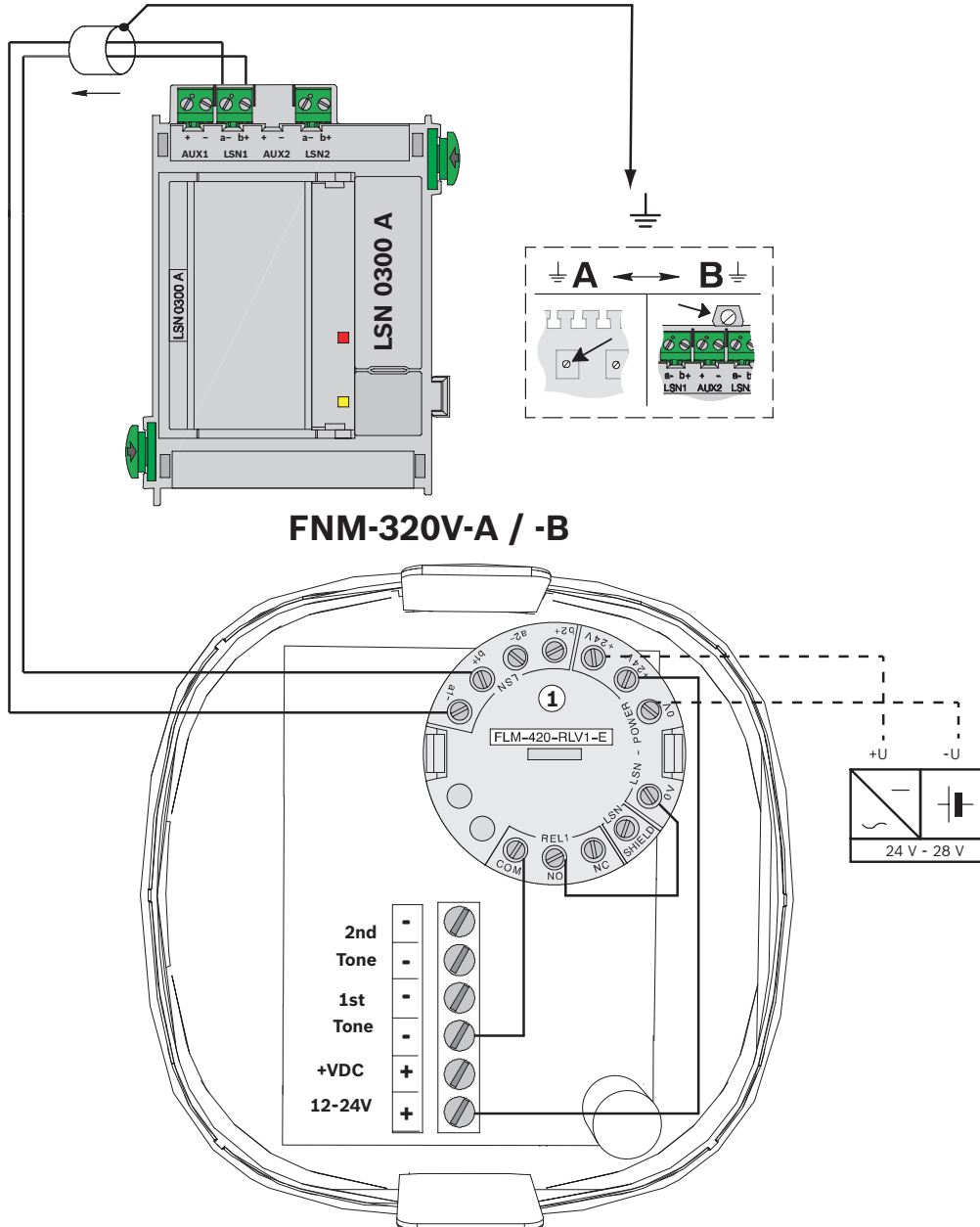
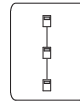




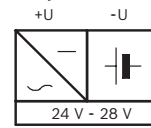




FNM-320V-A / -B

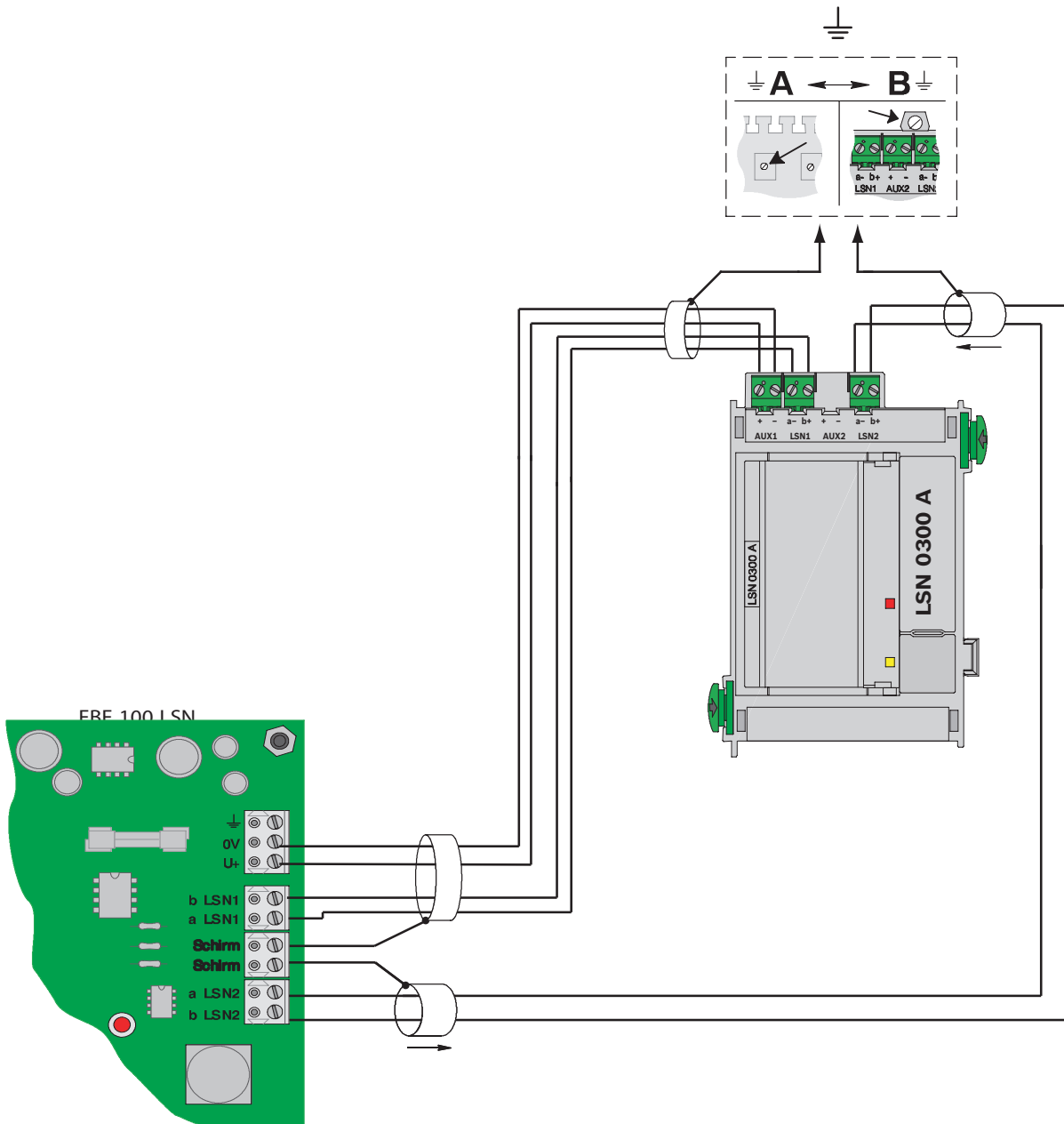
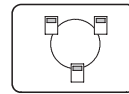


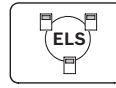
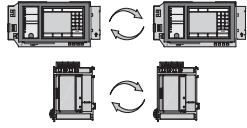
FNM-320V-A / -B



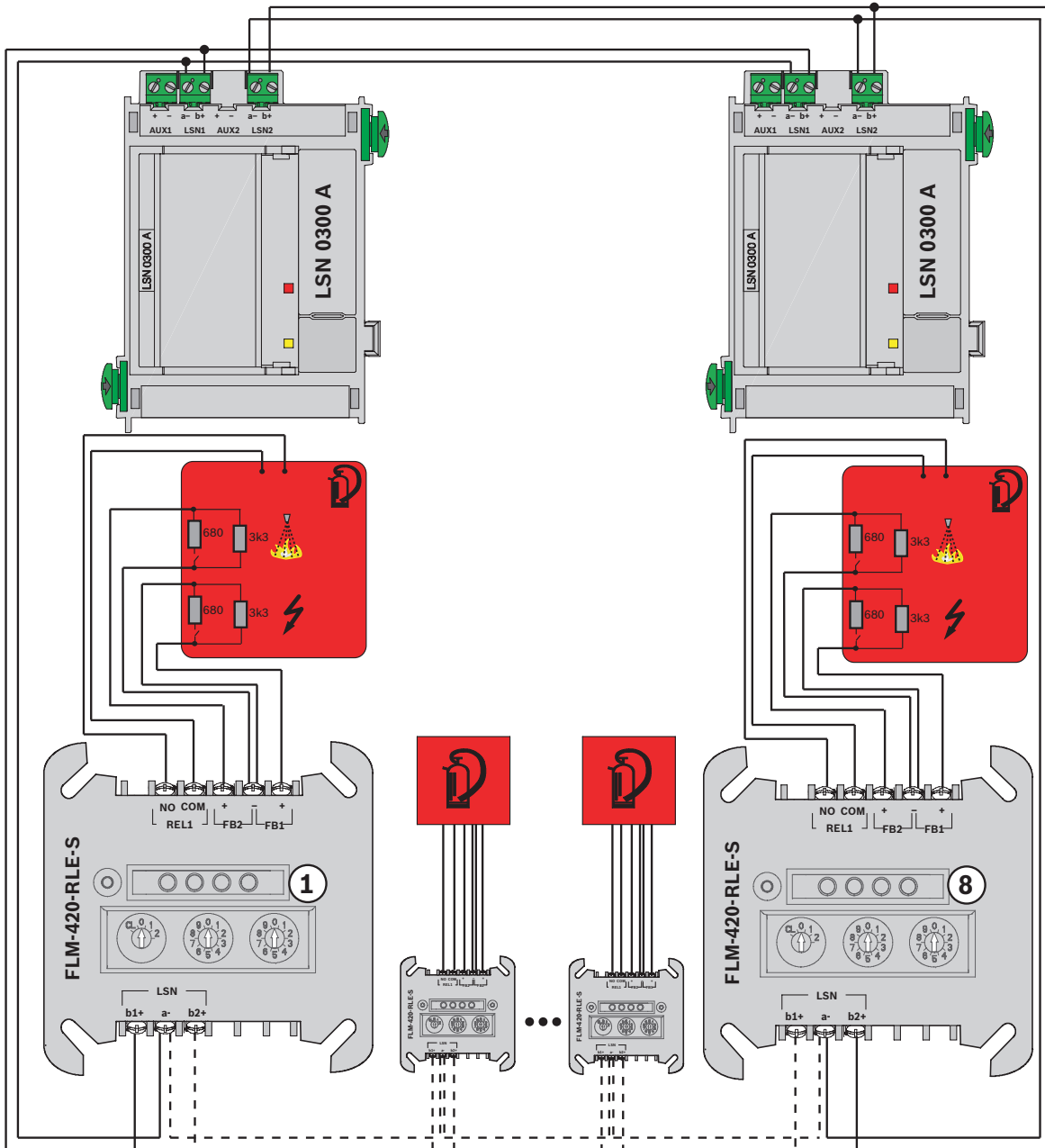


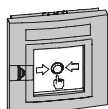
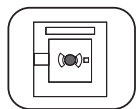
FBF 100 LSN



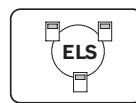


VdS 2489

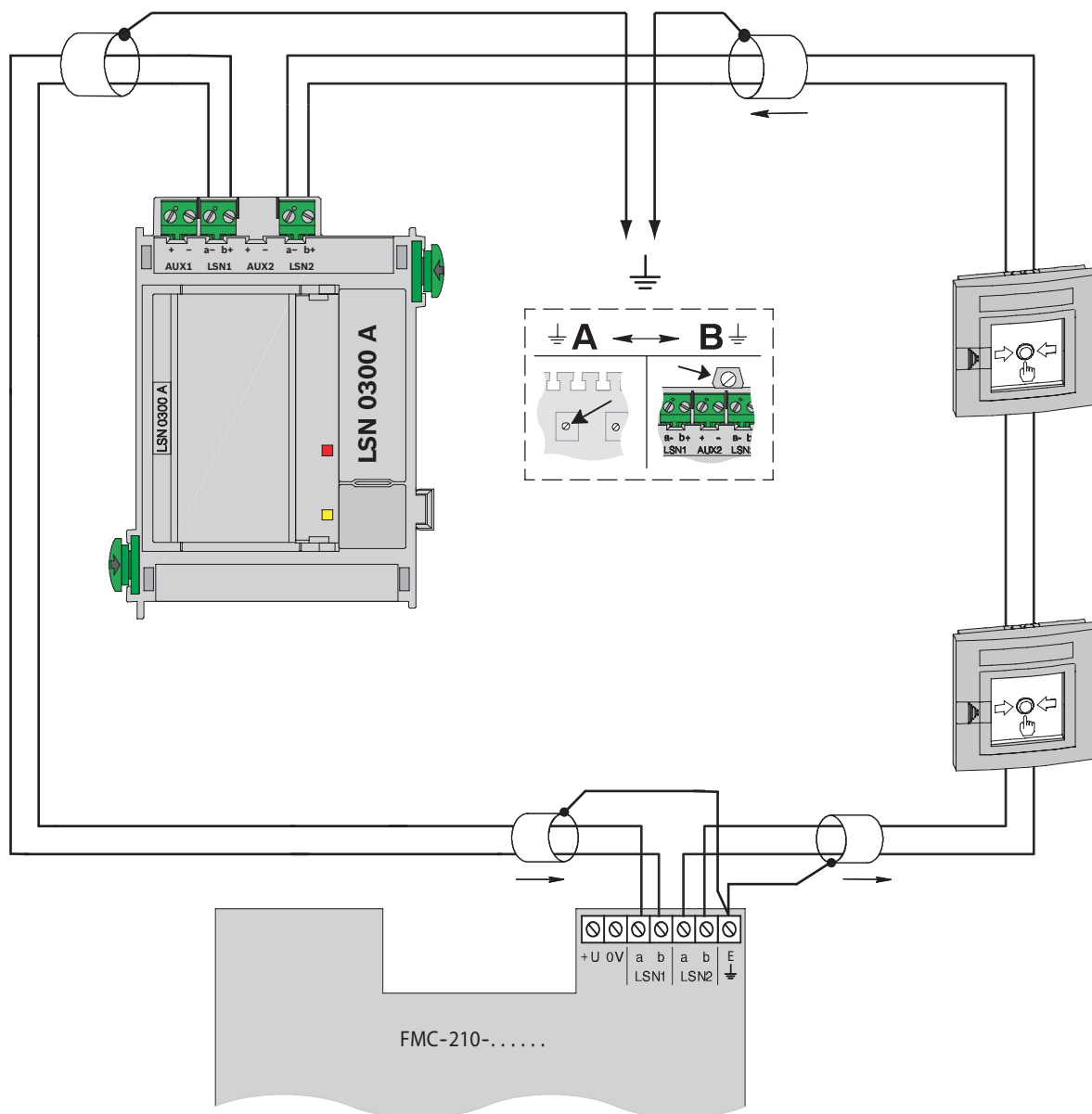


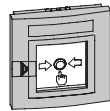
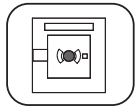


FMC-210...

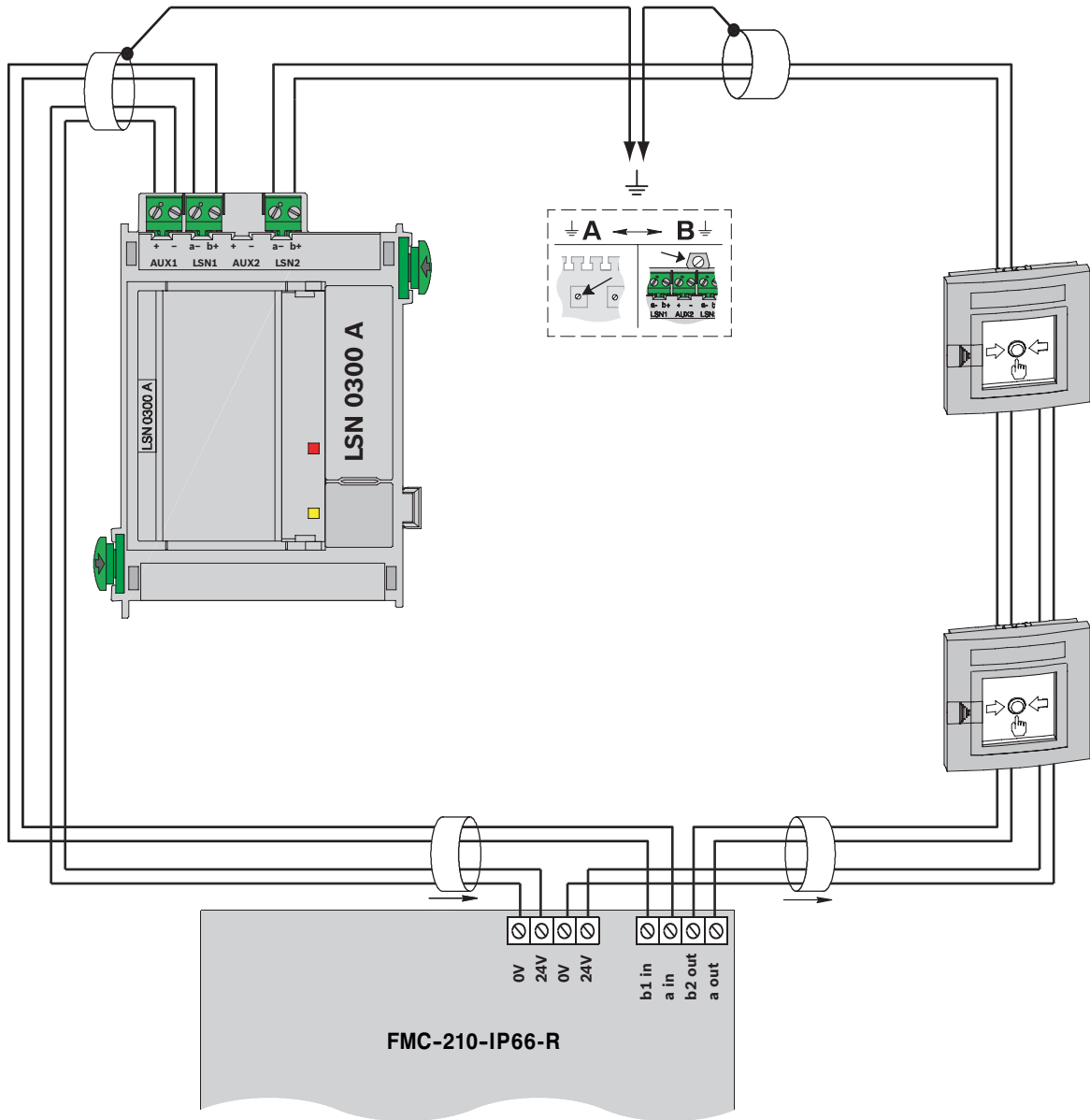
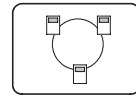


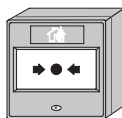
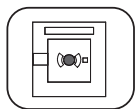
VdS 2489



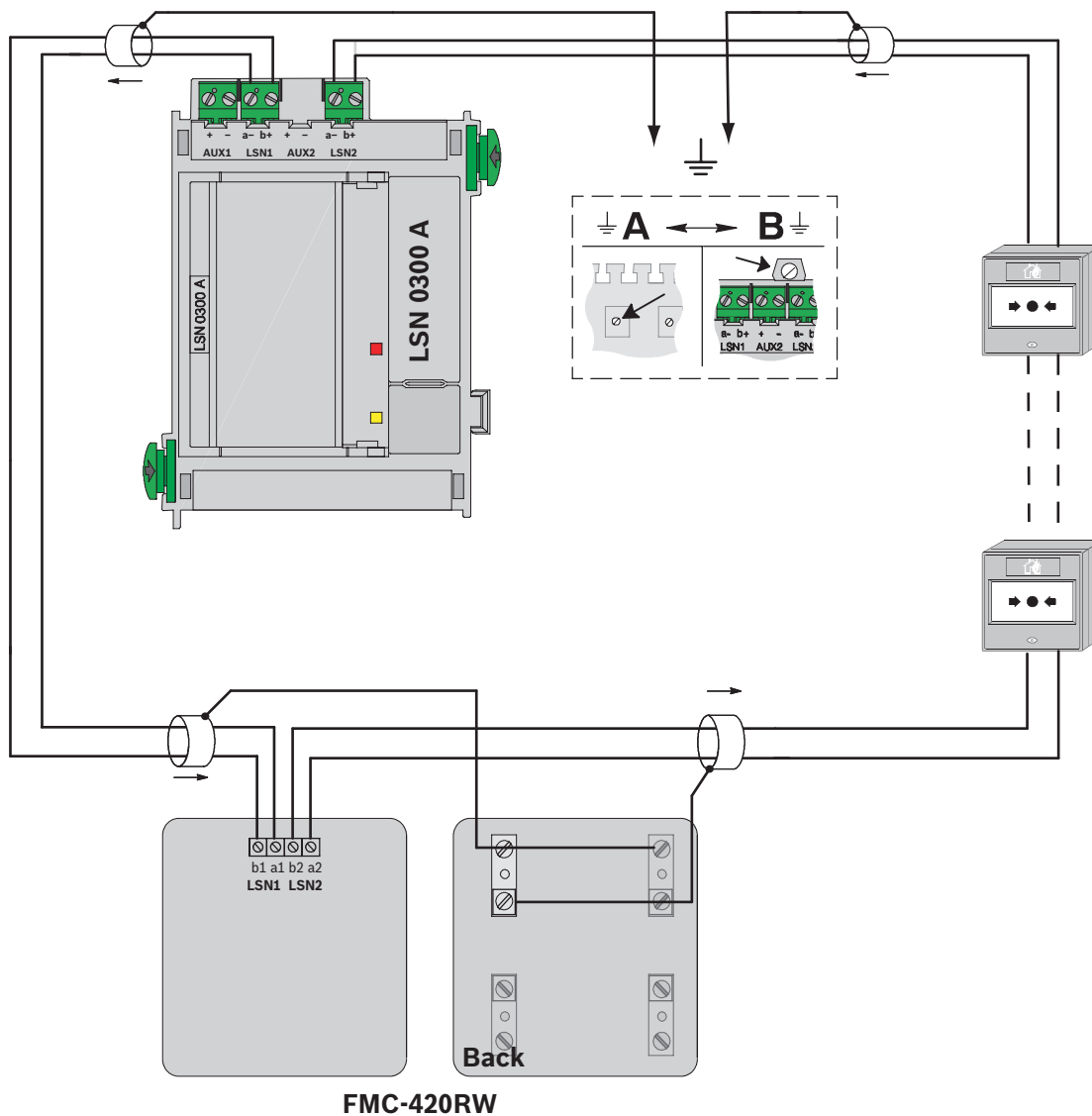
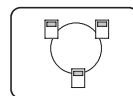


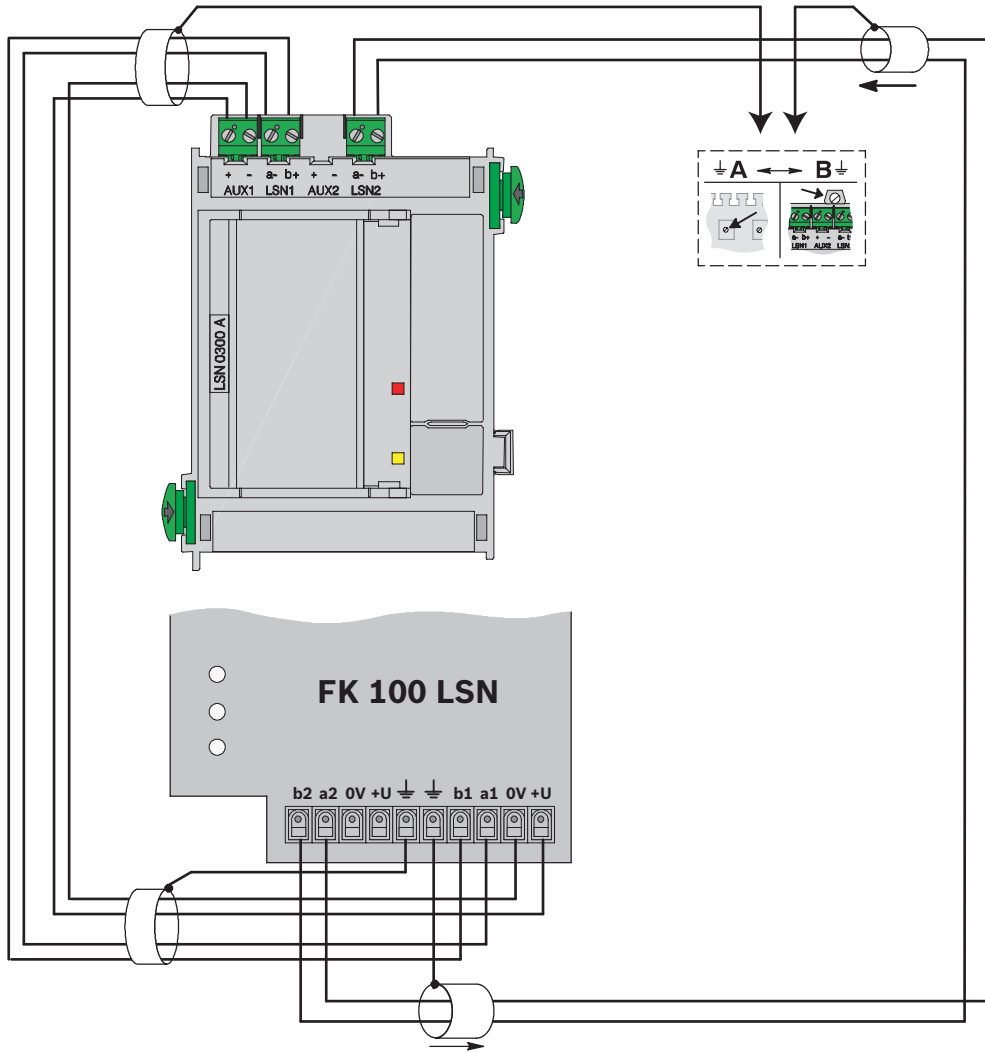
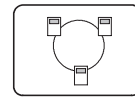
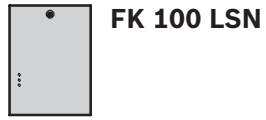
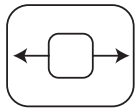
**FMC-210-IP66-R**





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

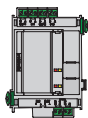
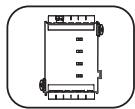




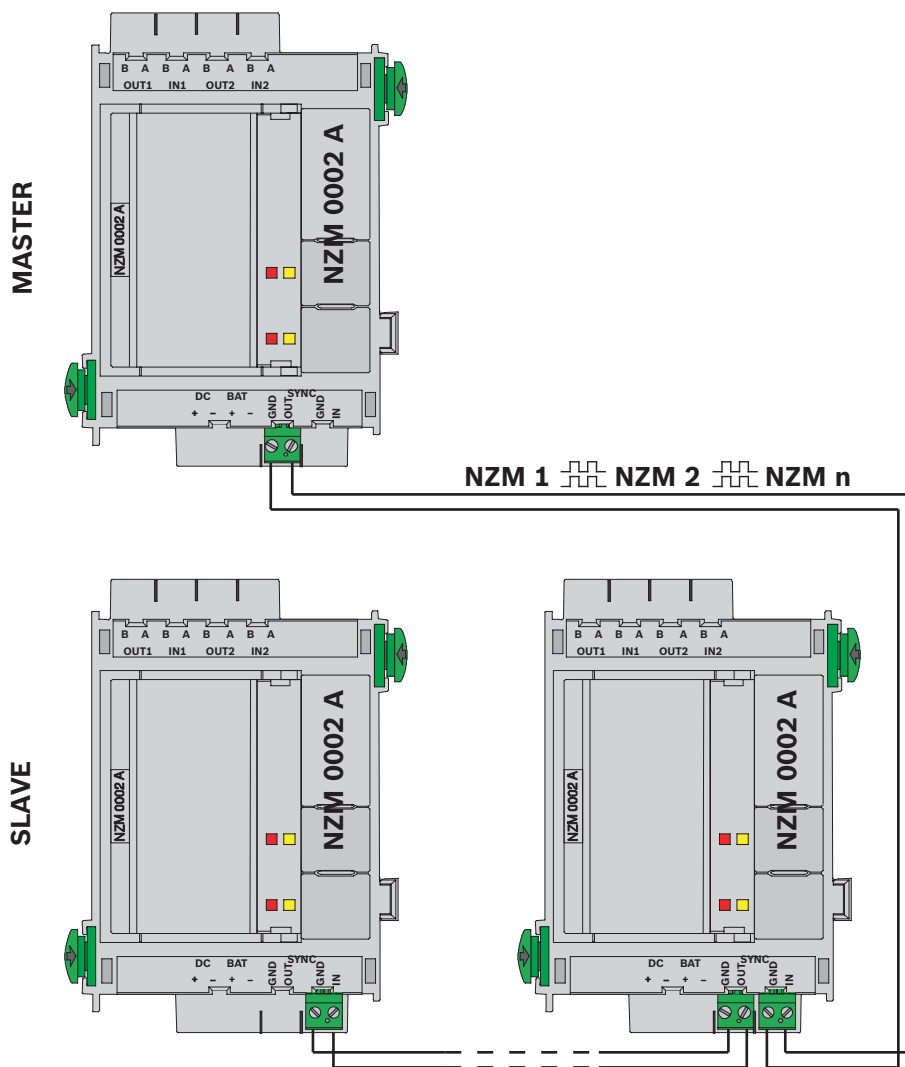


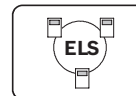
### 3.3.5

### NZM 0002 A

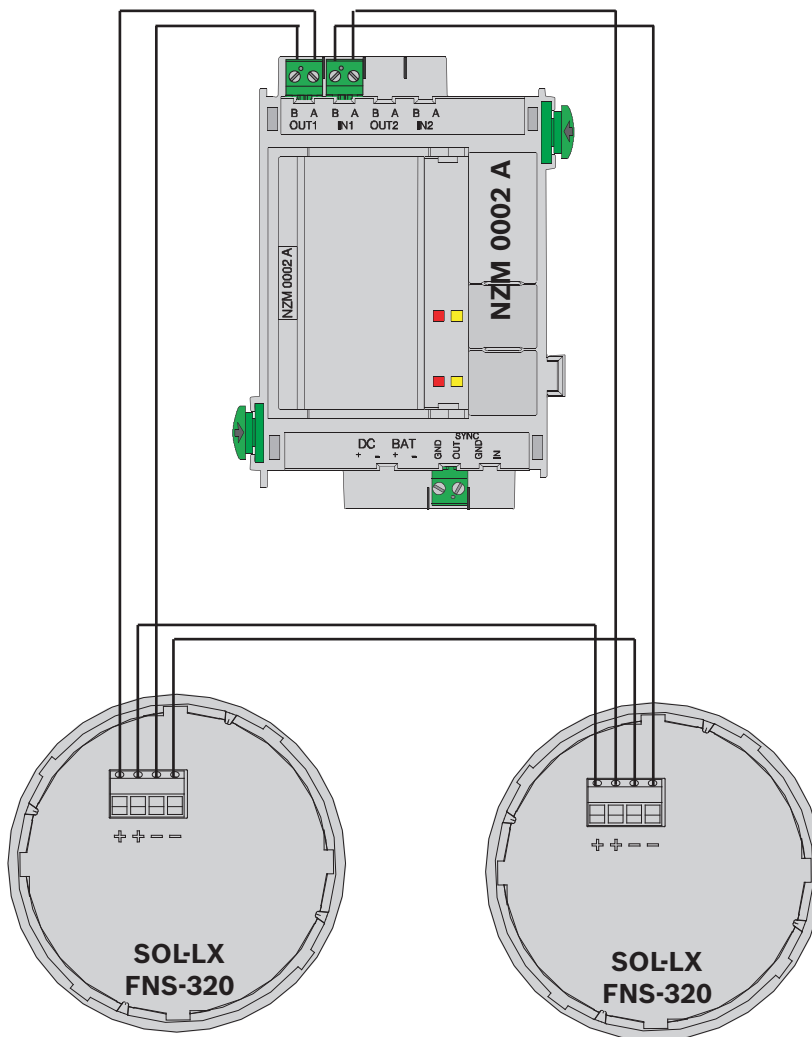


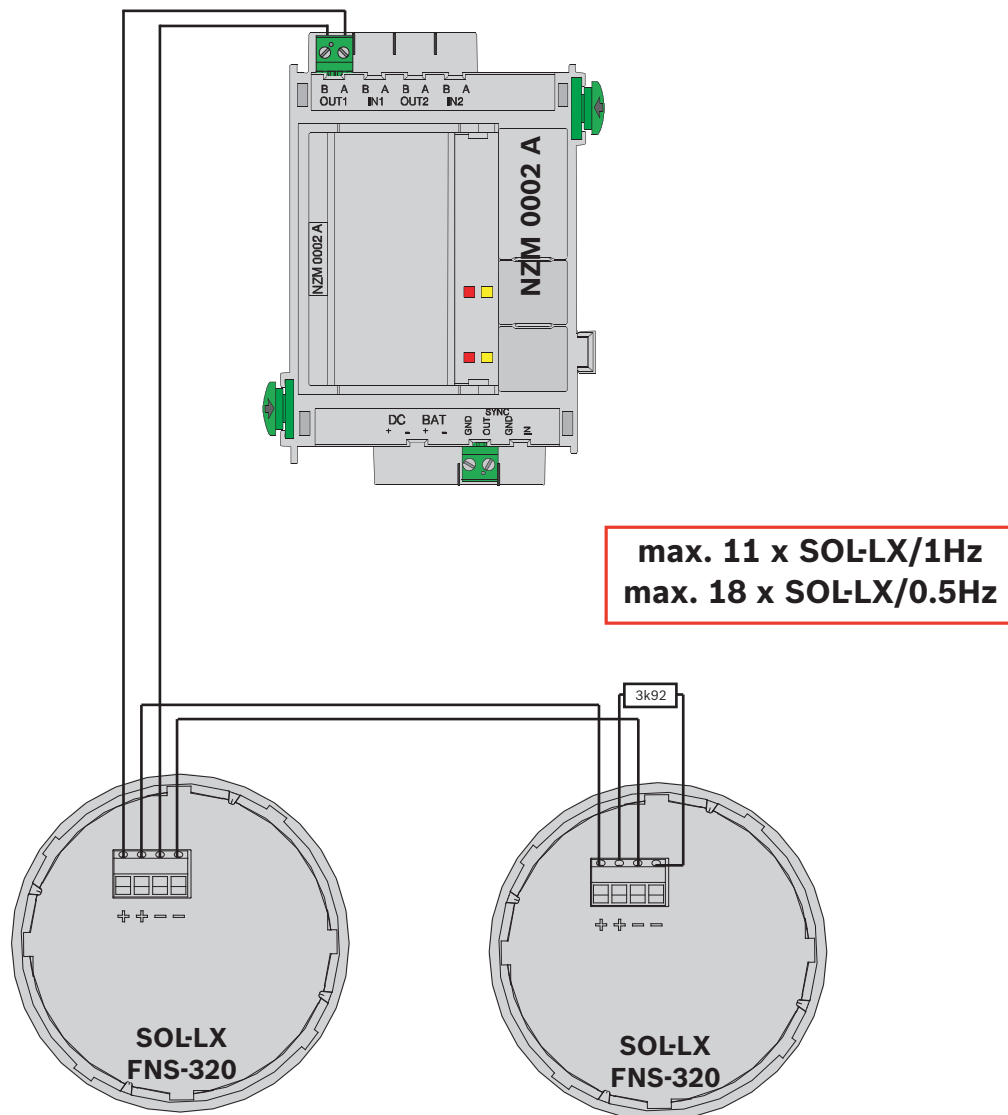
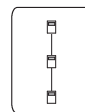
NZM 0002 A

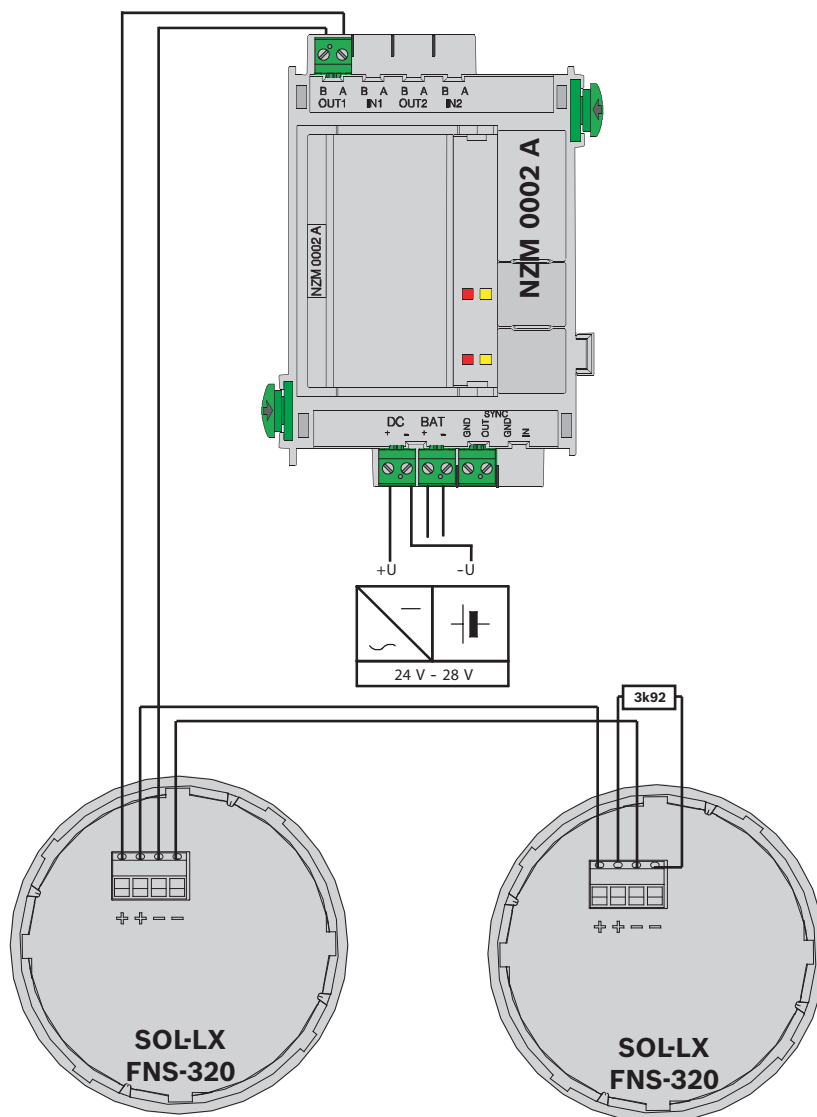
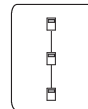


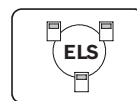


VdS 2489

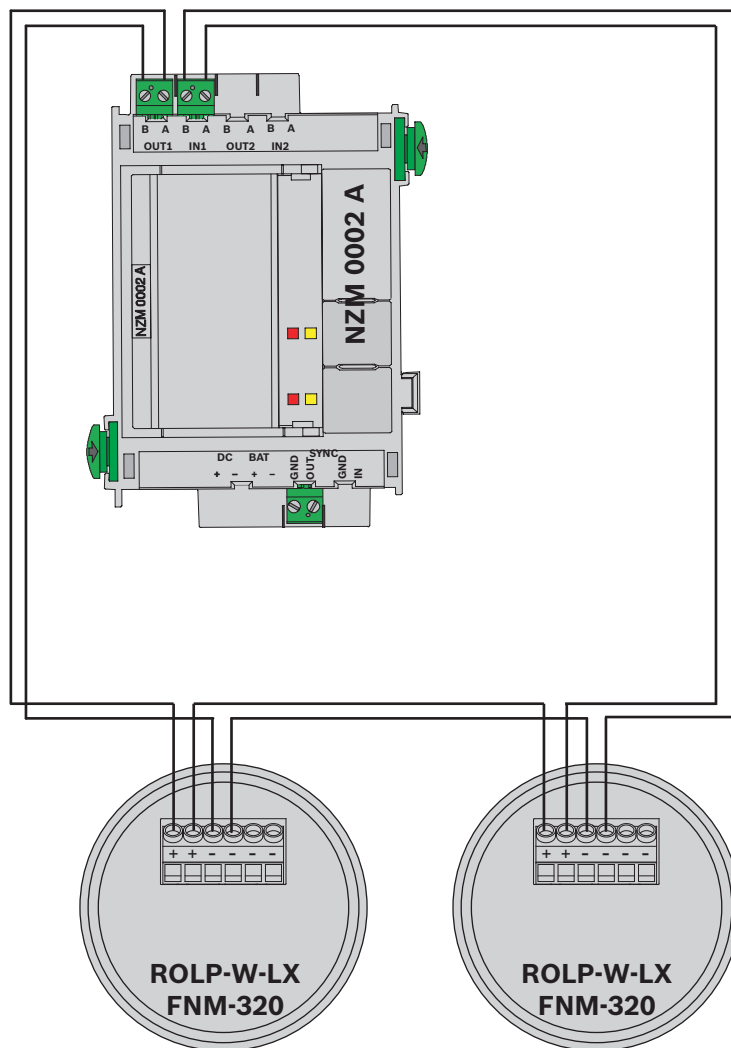


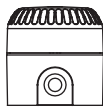




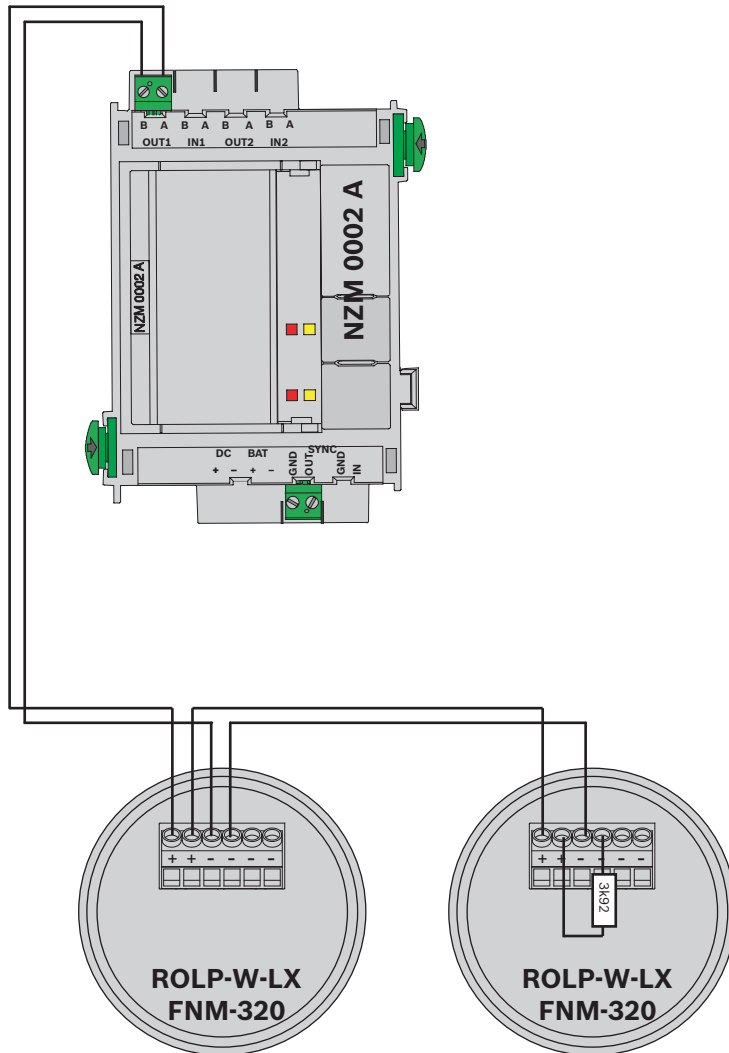
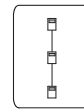


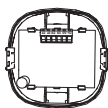
VdS 2489



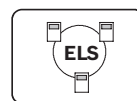


**ROLP-W-LX  
FNM-320**

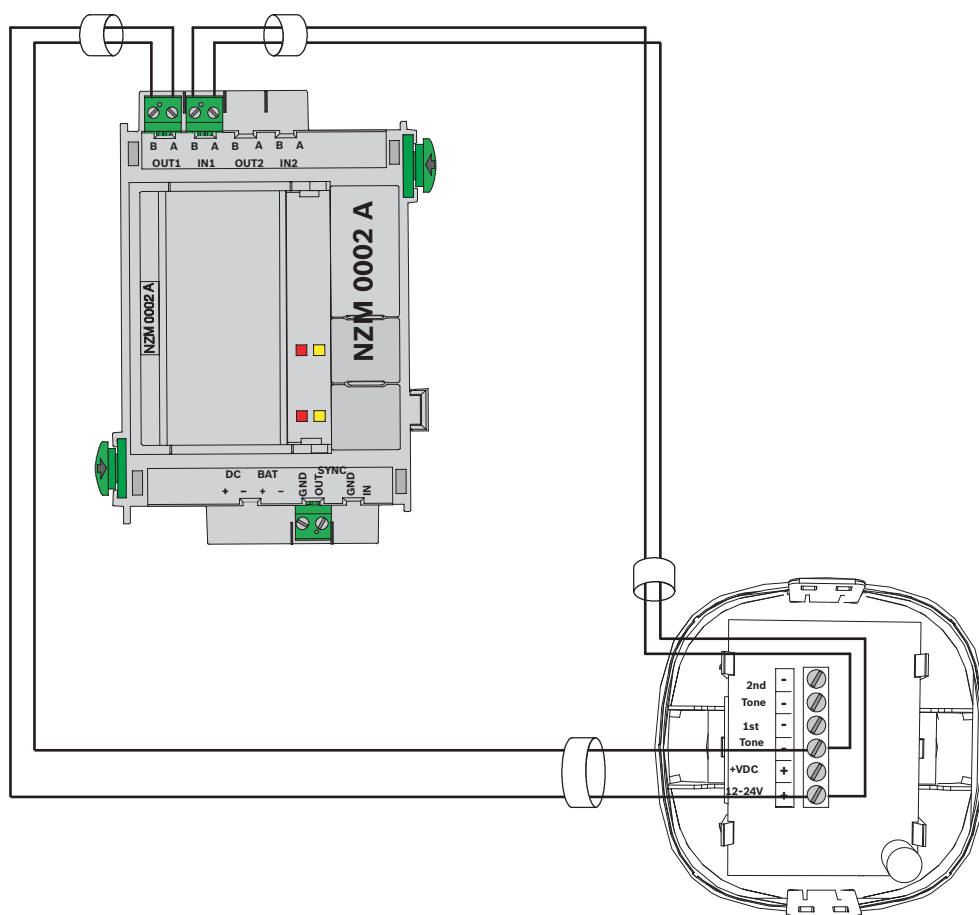


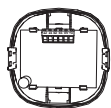


FNM-320V-A / -B

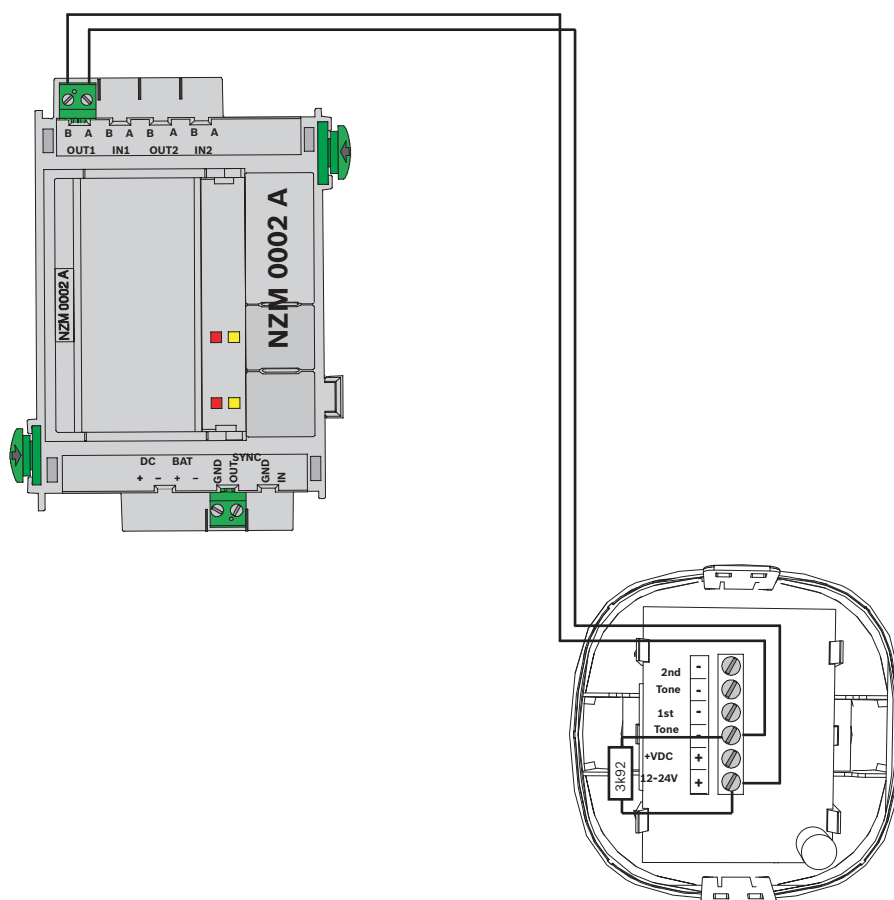
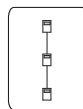


VdS 2489

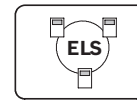




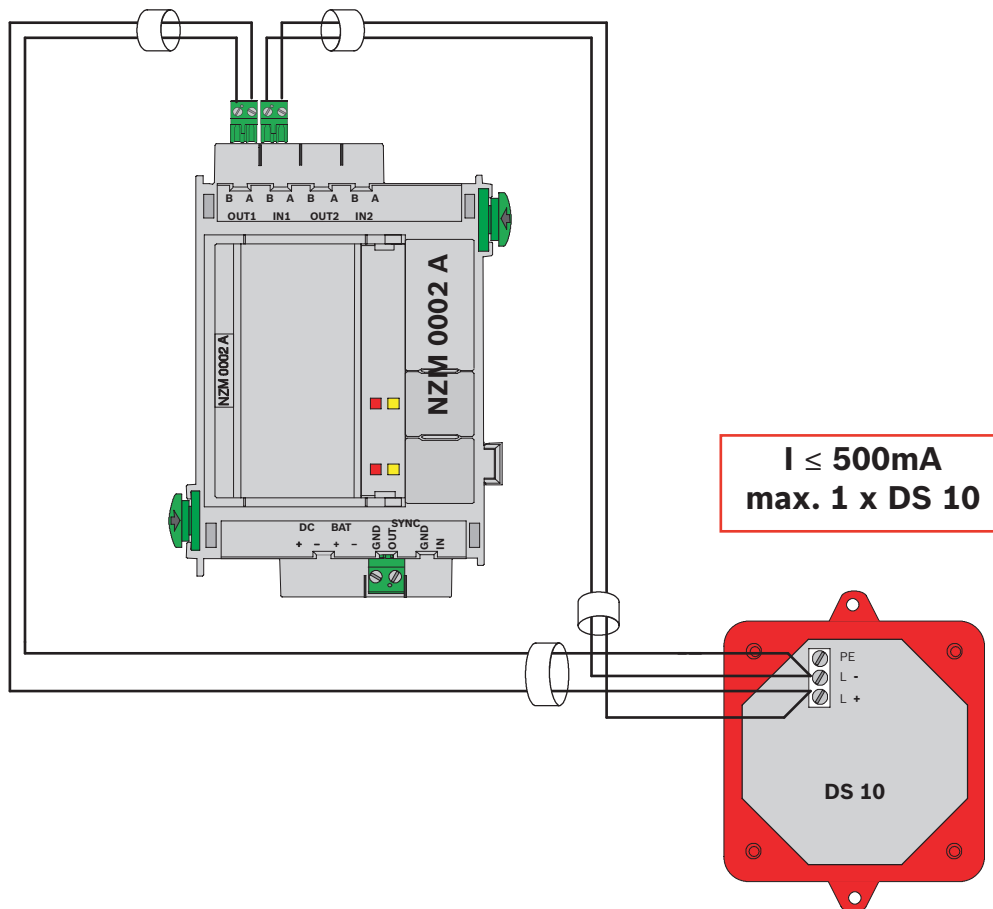
FNM-320V-A / -B

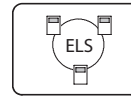




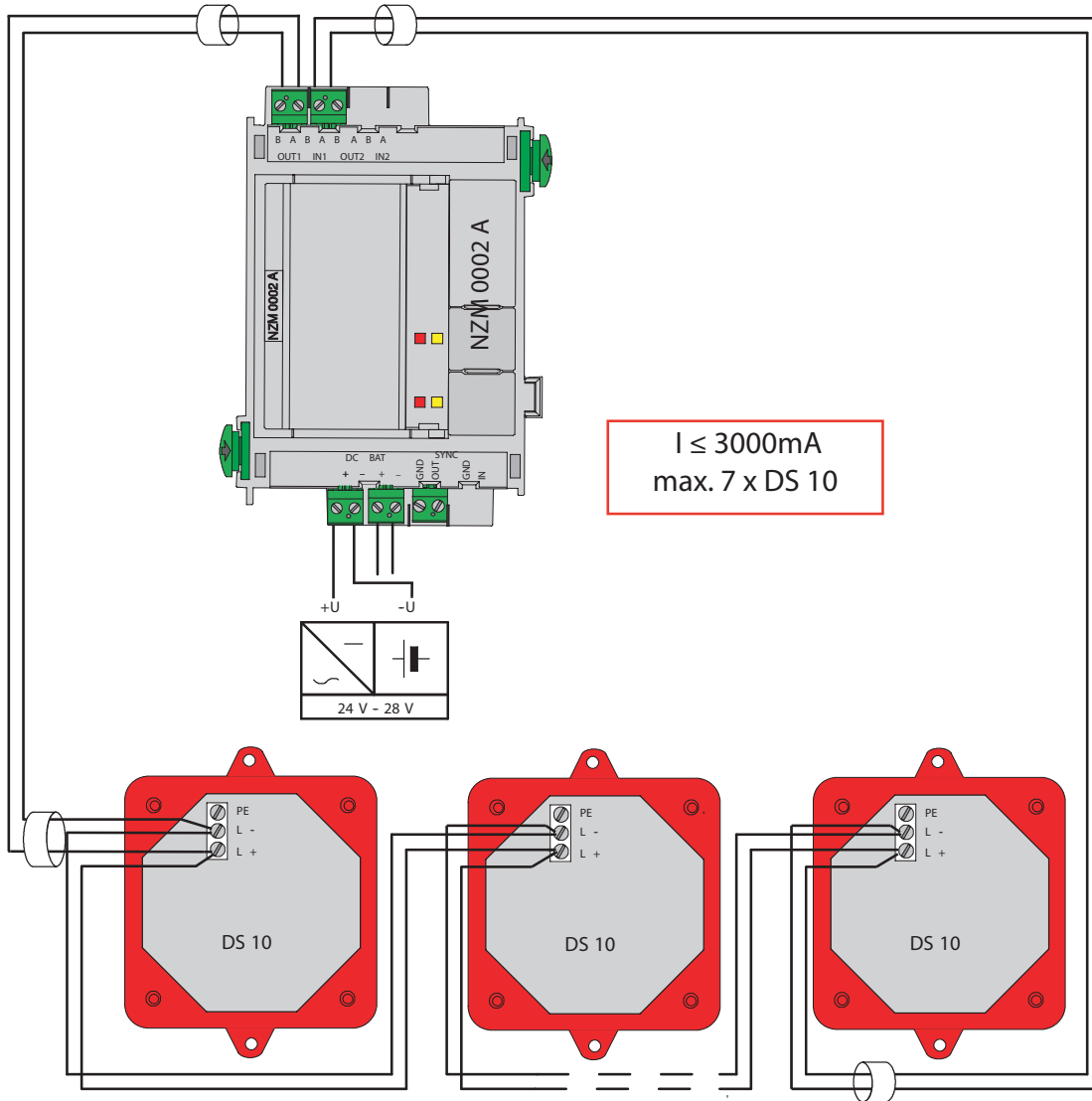


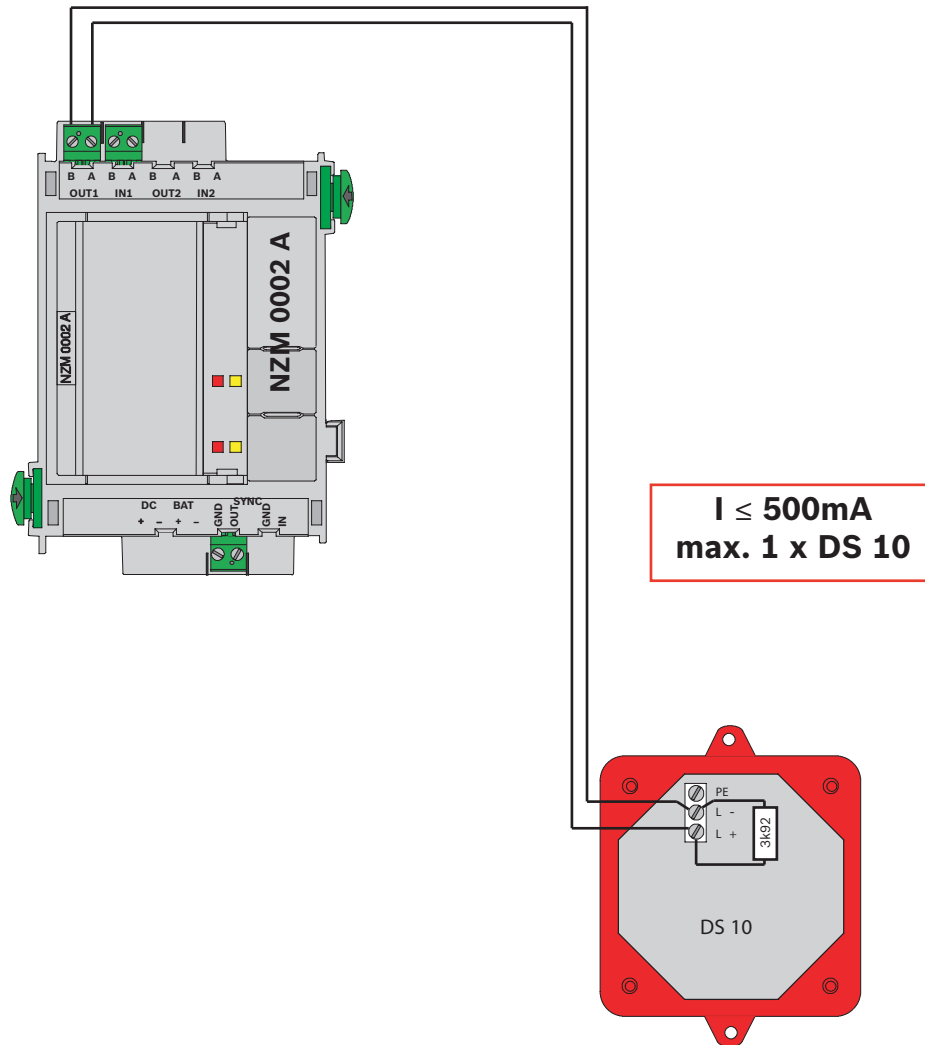
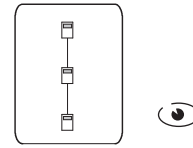
**VdS 2489**

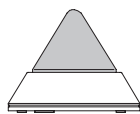




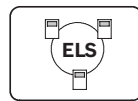
VdS 2489



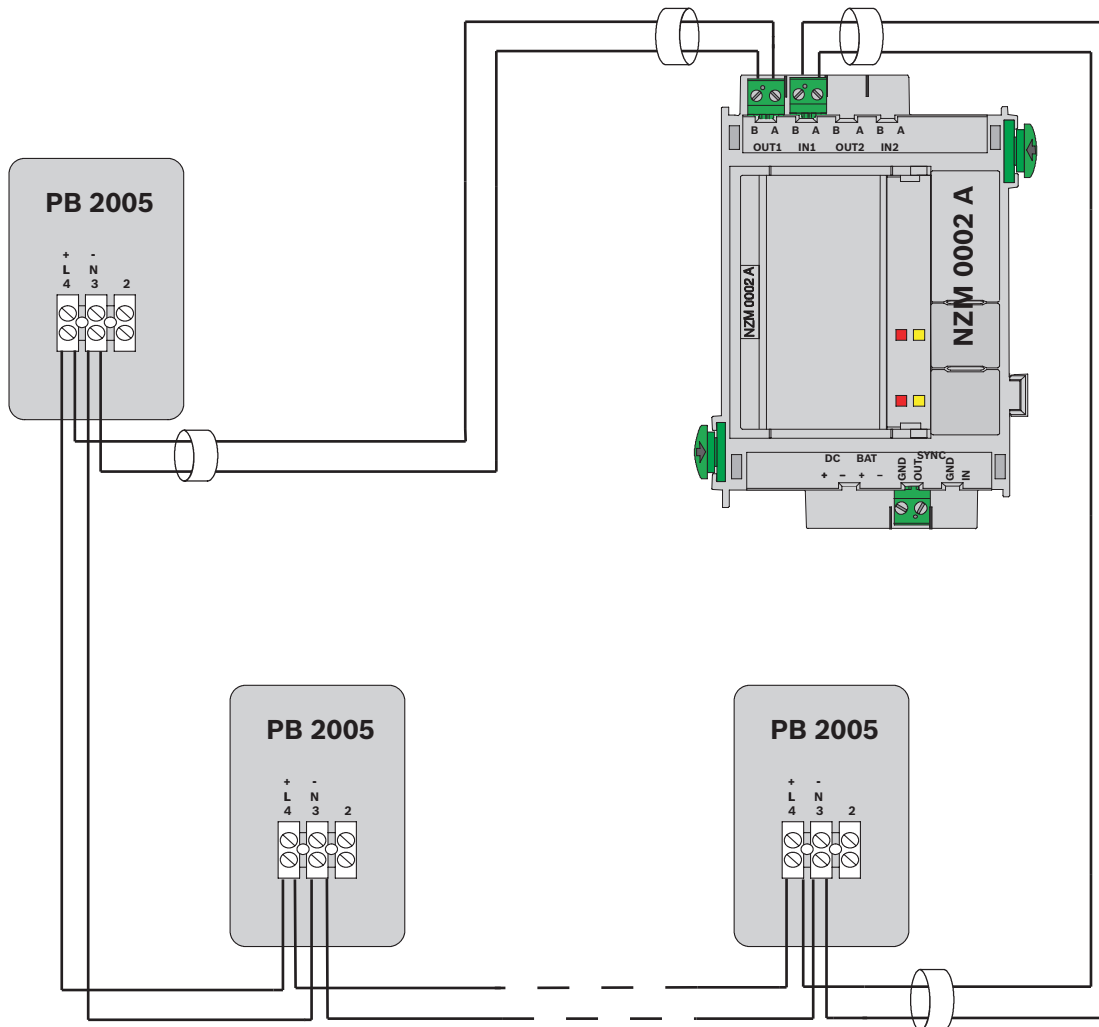


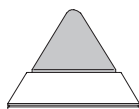


**PB 2005**

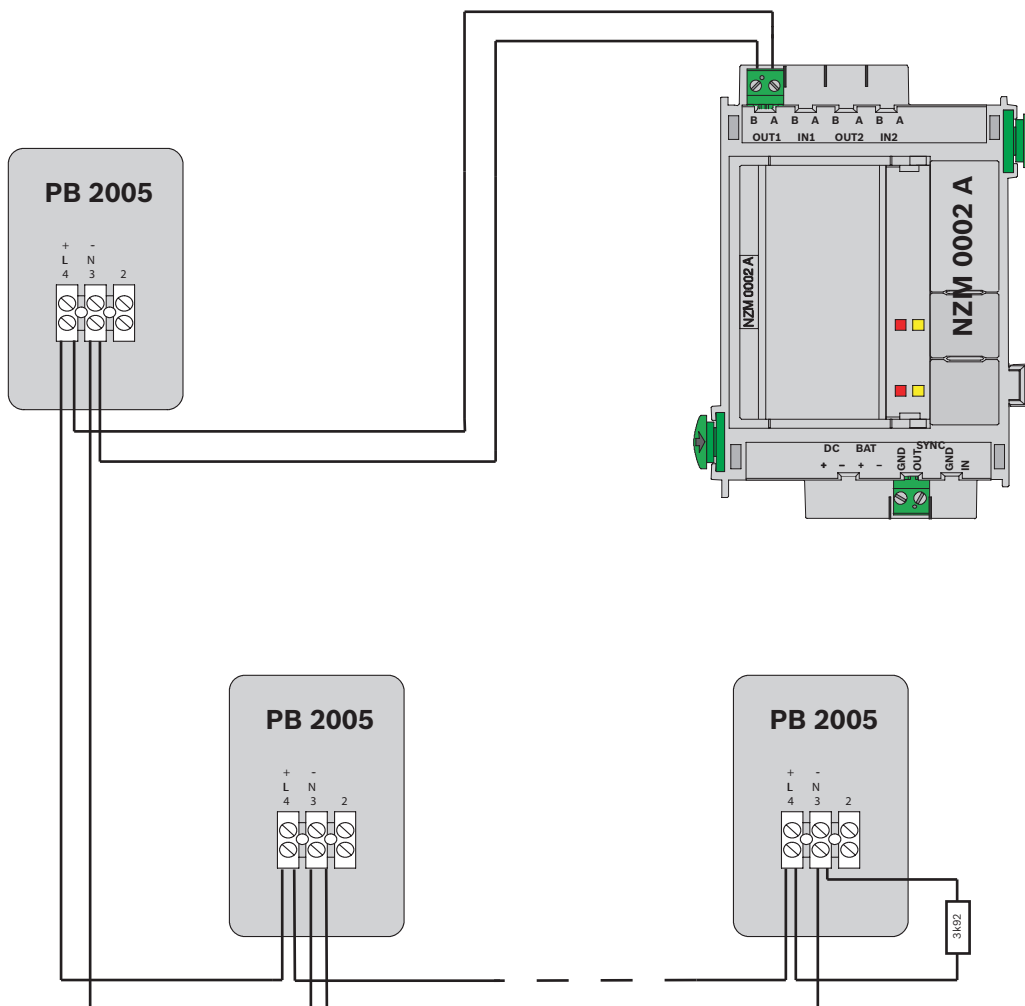
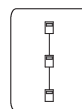


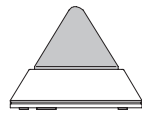
**VdS 2489**



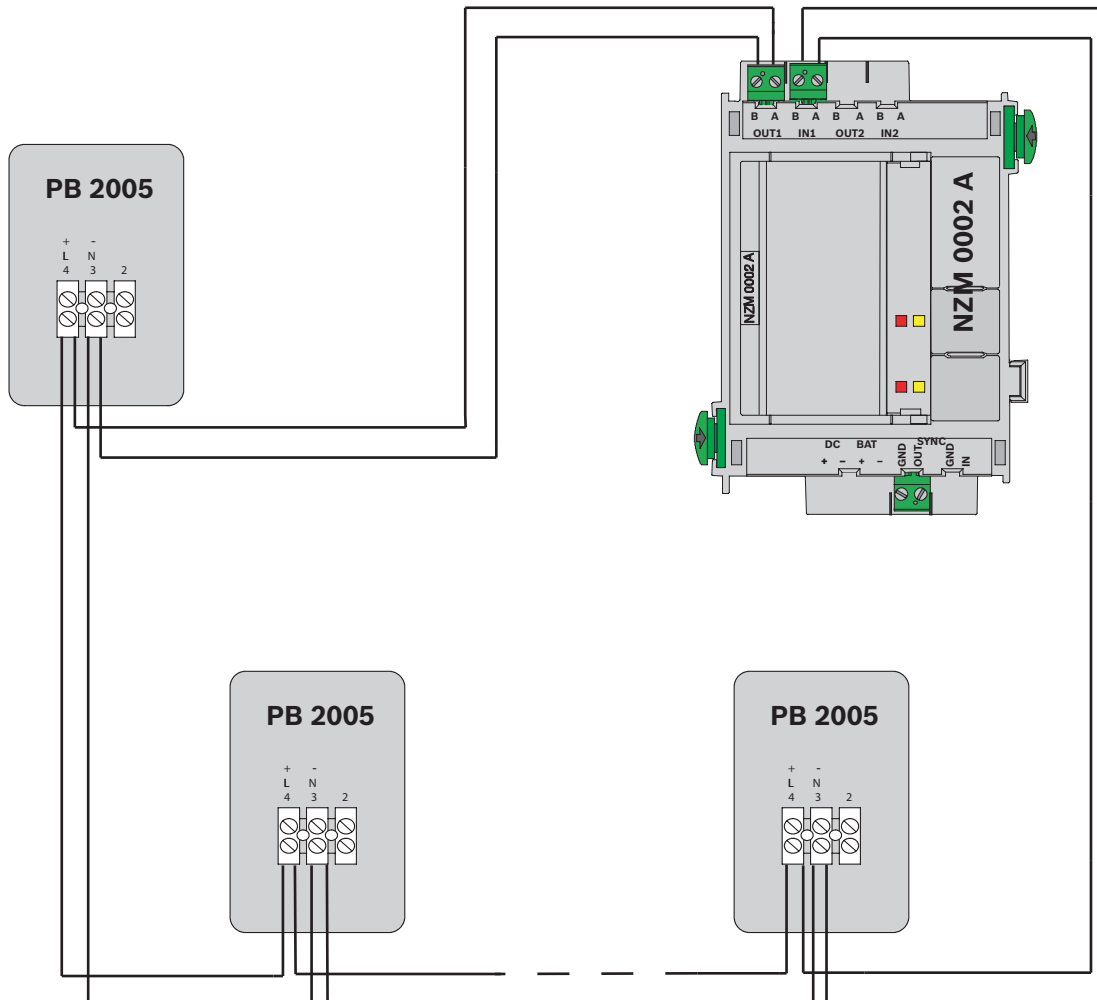
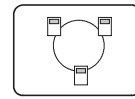


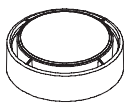
**PB 2005**



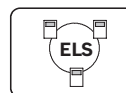


**PB 2005**

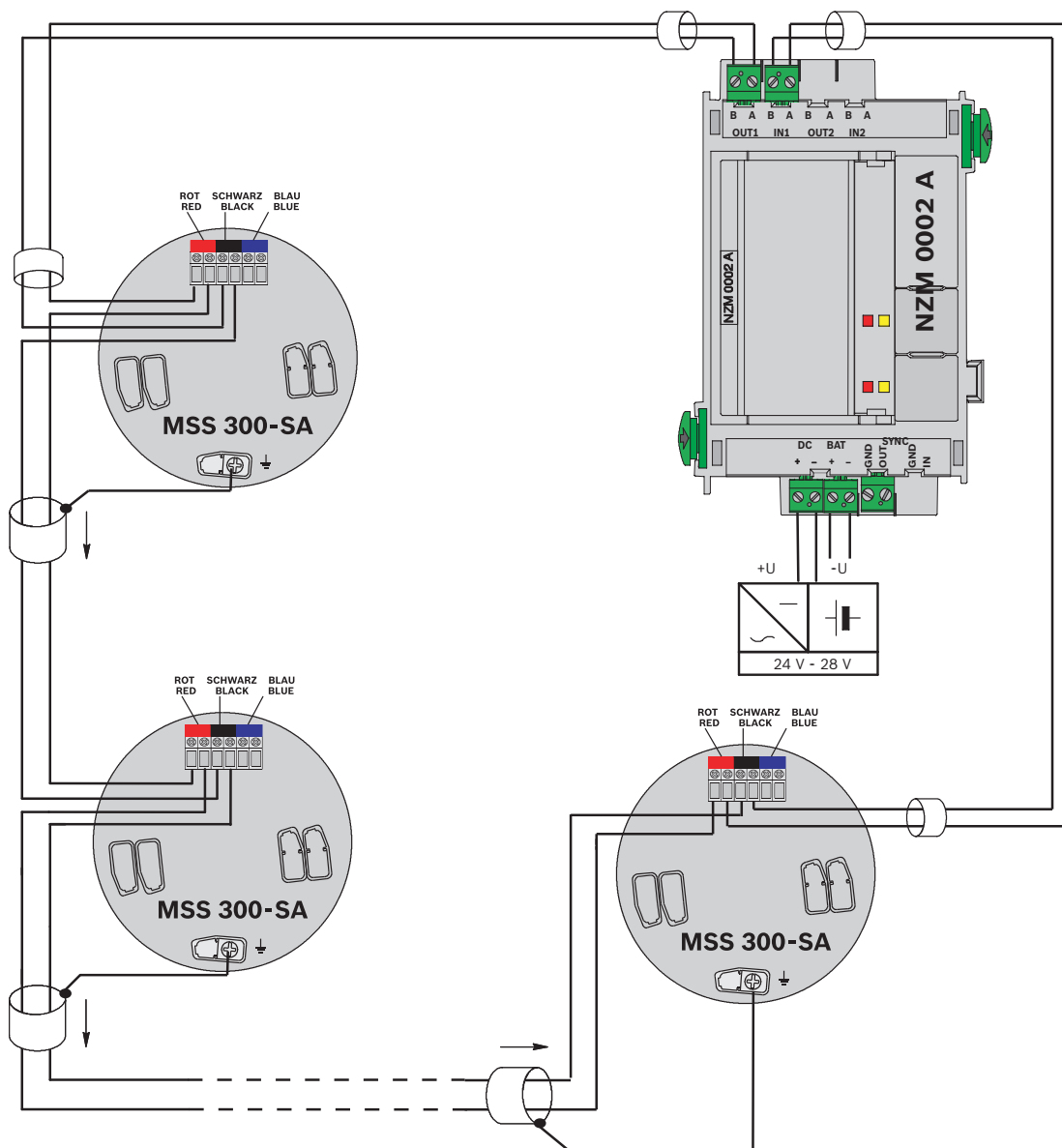




MSS 300-SA

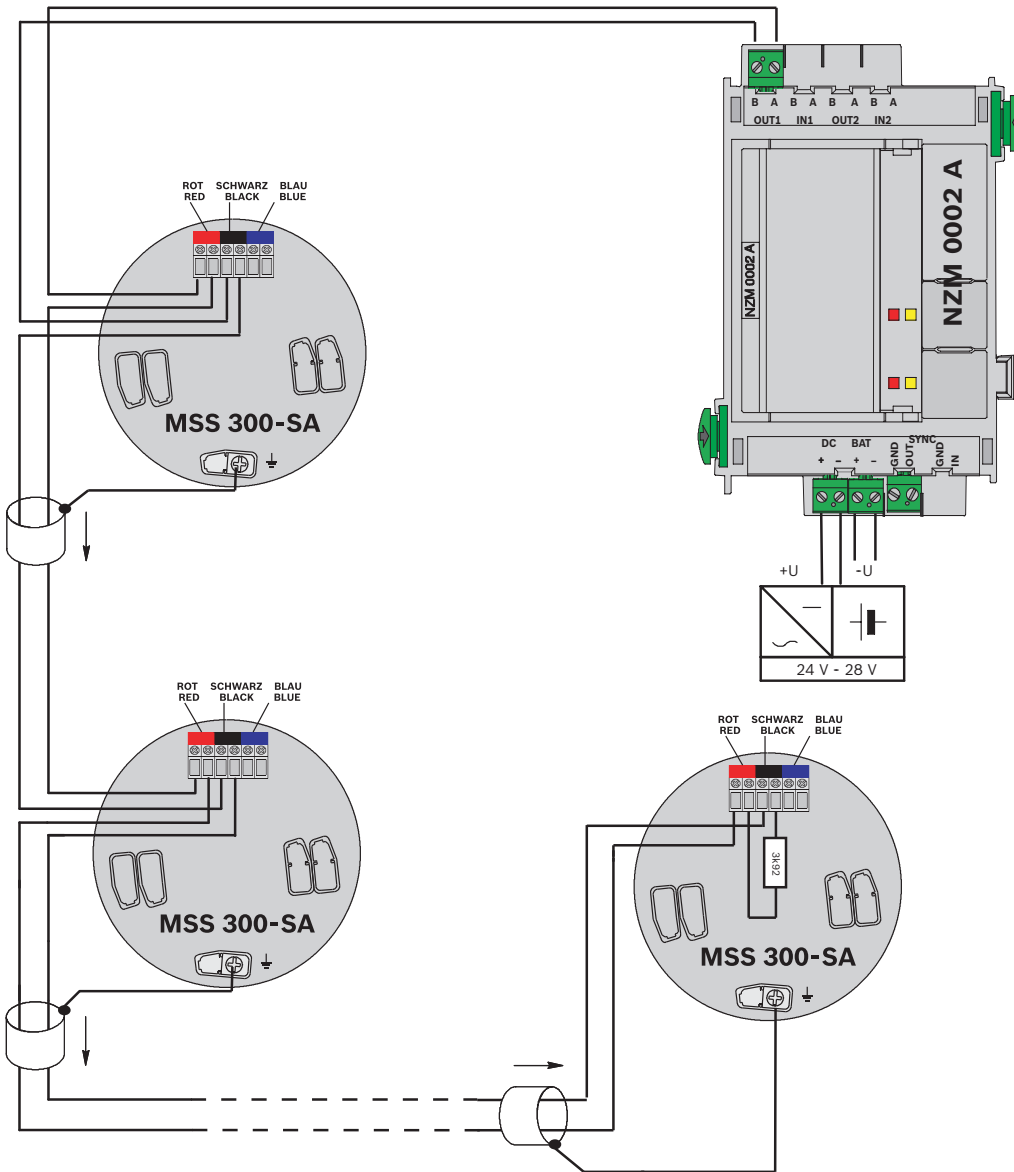
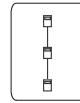


VdS 2489





MSS 300-SA





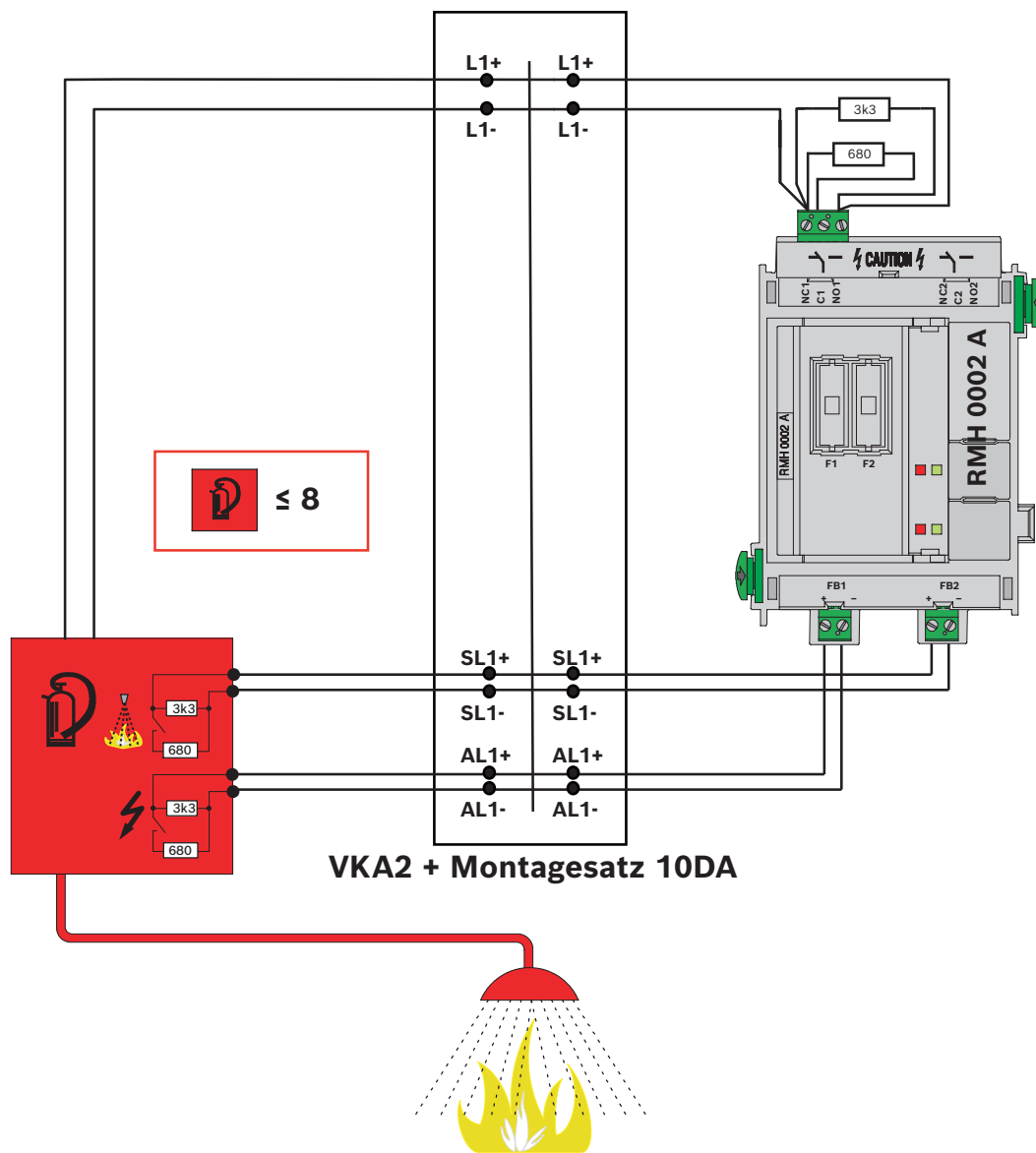
3.3.6

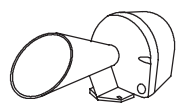
RMH 0002 A



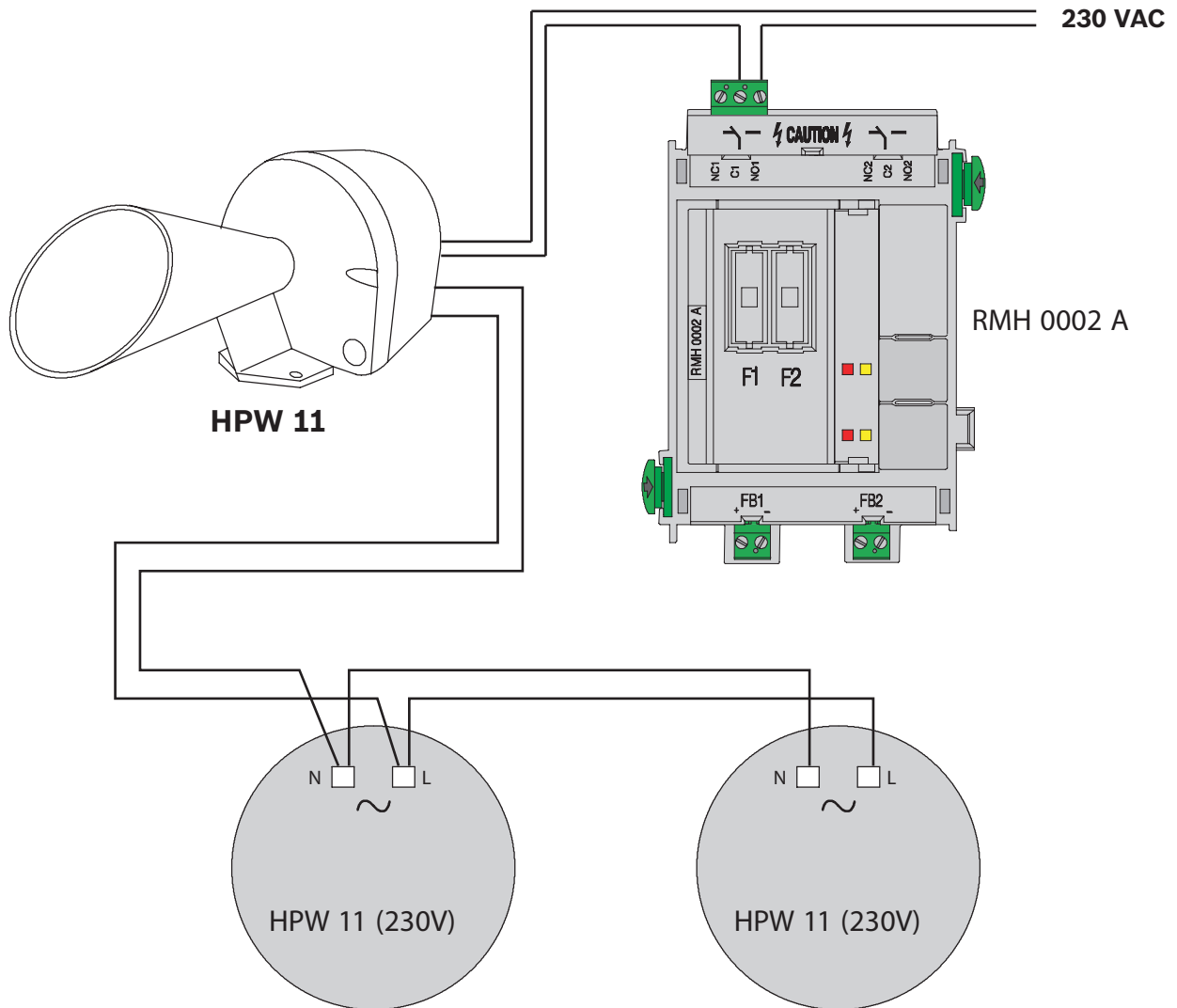
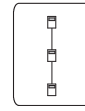
Löschanlage

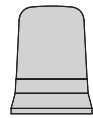
VdS 2496:2005-09



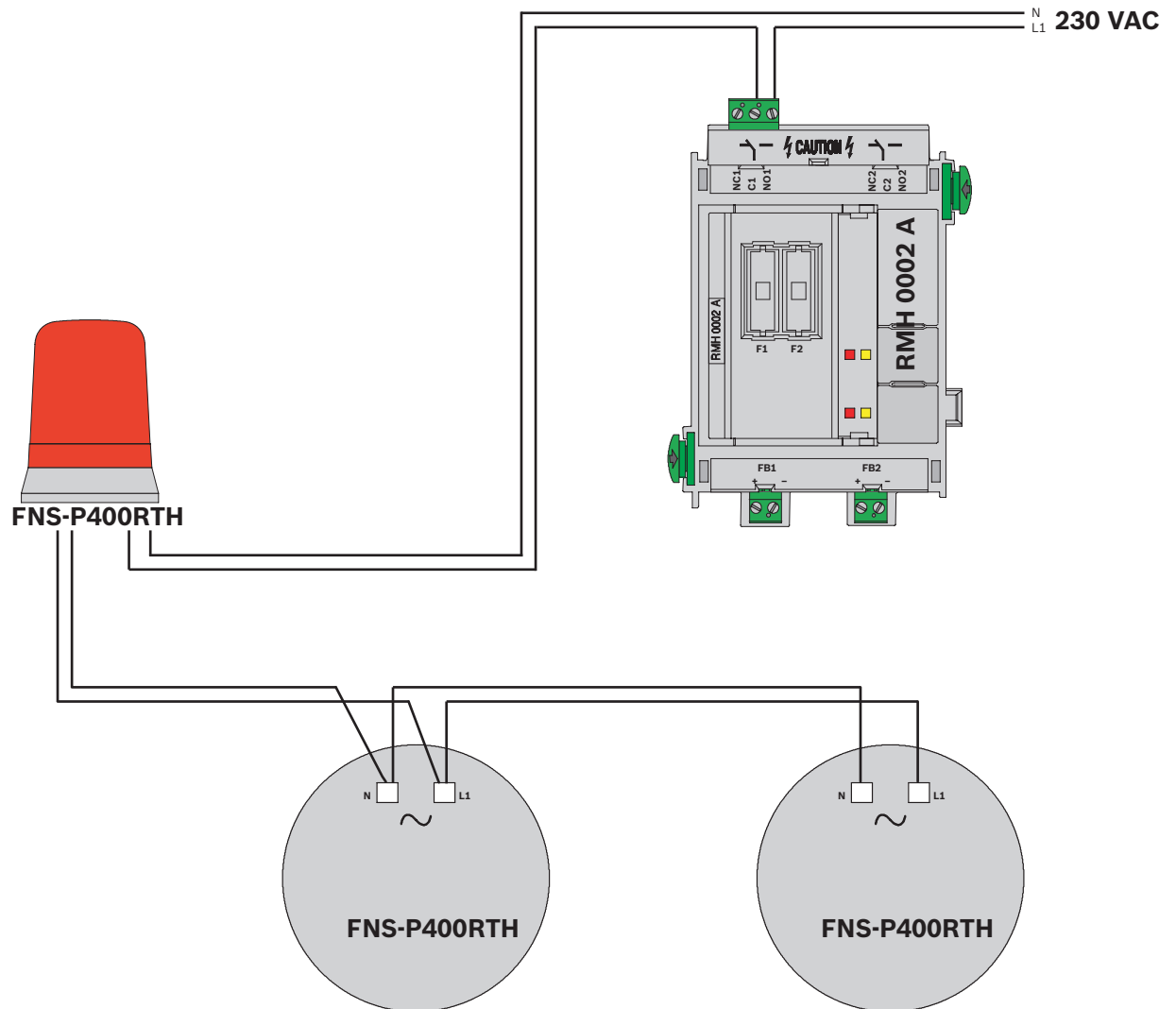
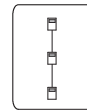


HPW 11

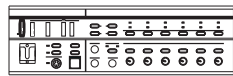
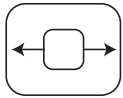




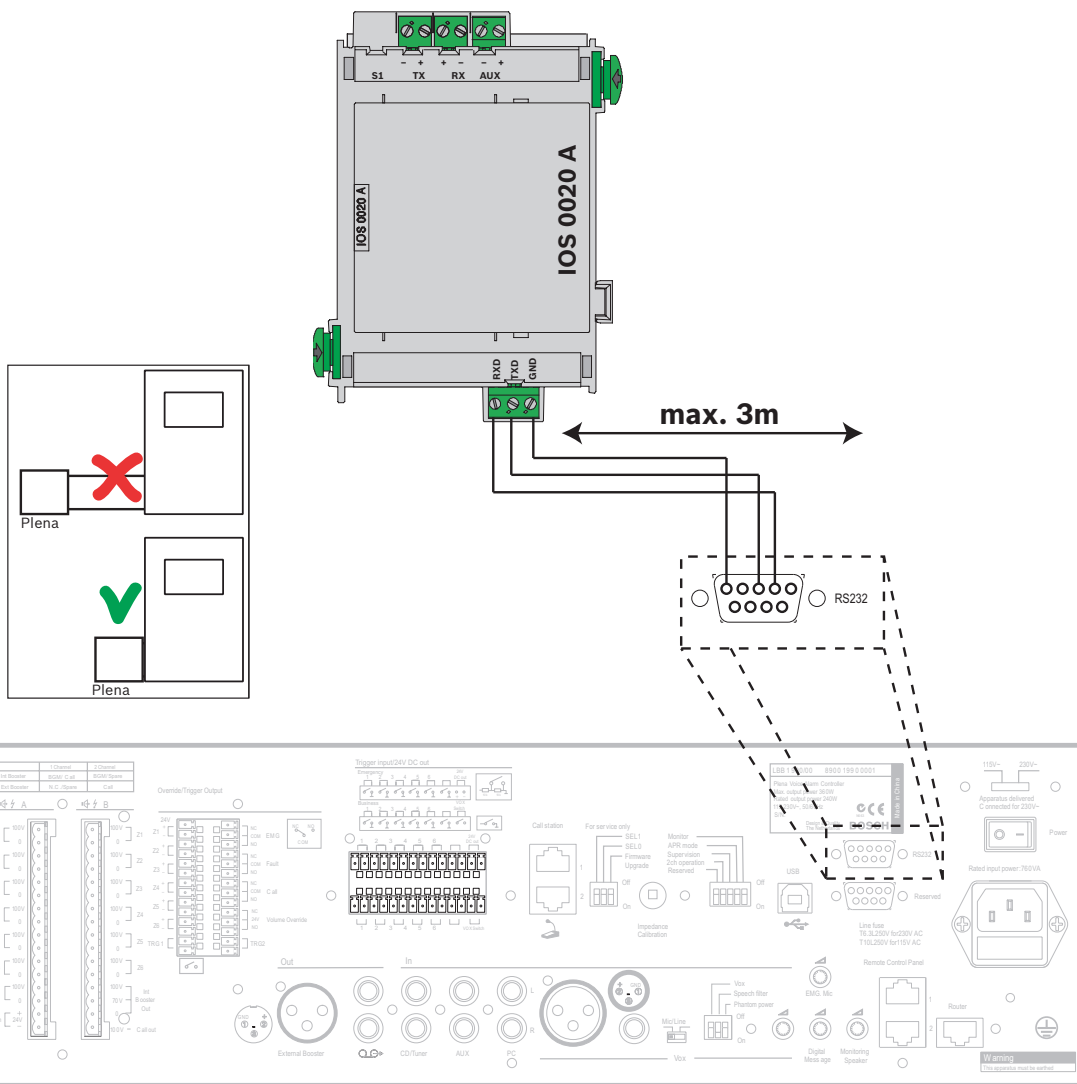
FNS-P400RTH



### 3.3.7 IOS 0020 A



Plena

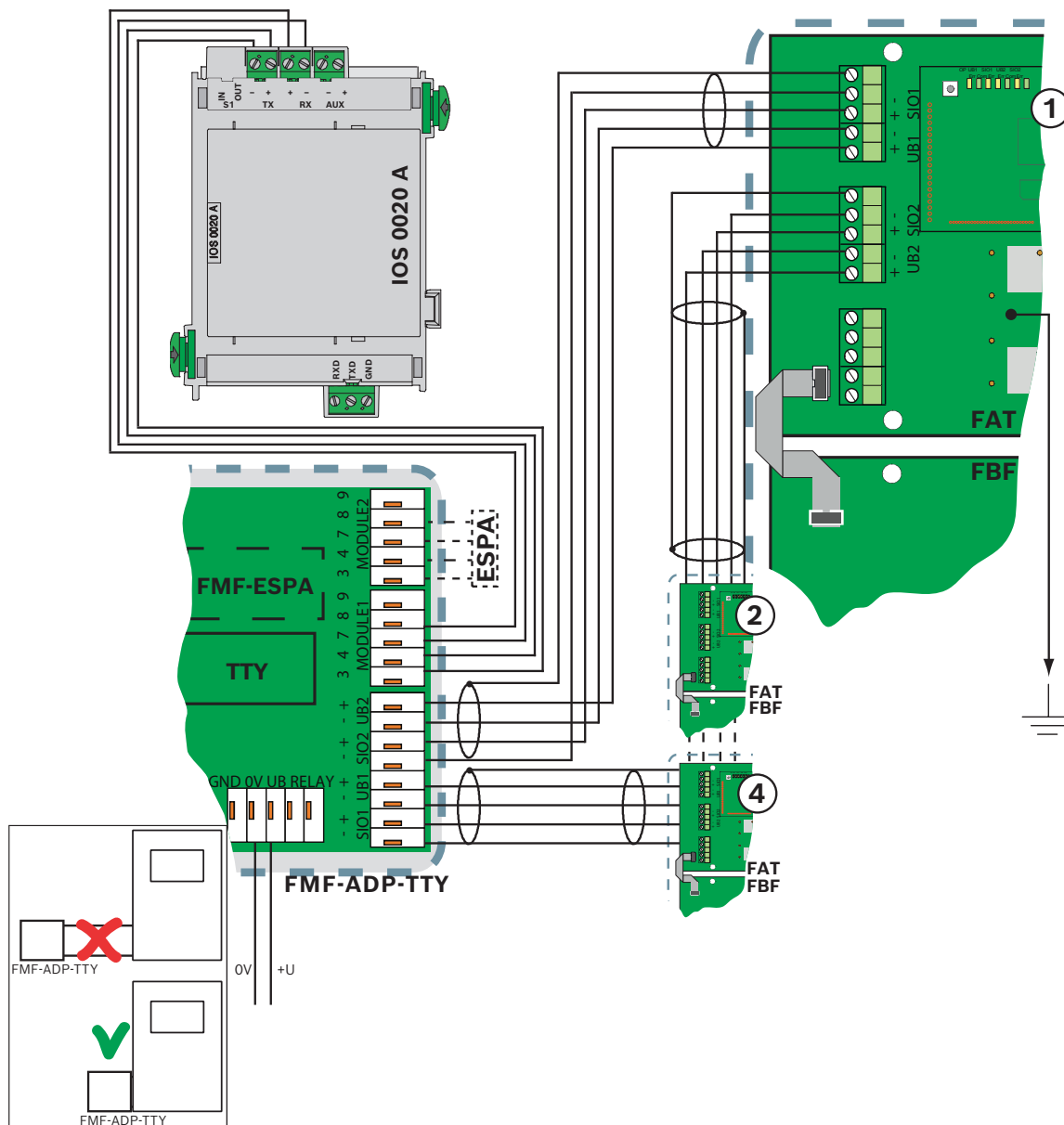




FAT4000 FBF4000 ADP4000

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

ELS Vds 2489

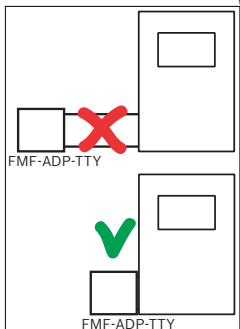
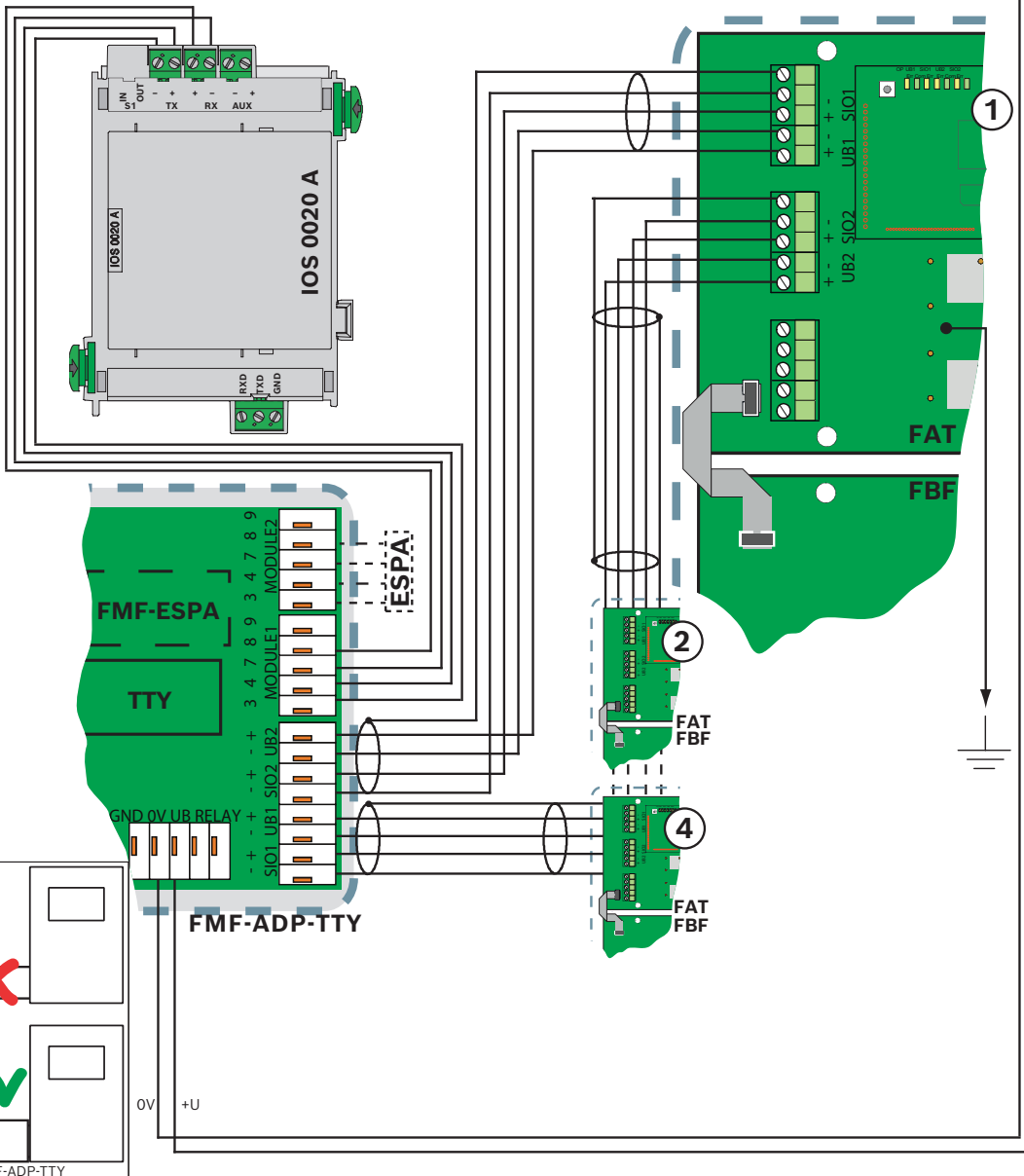




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



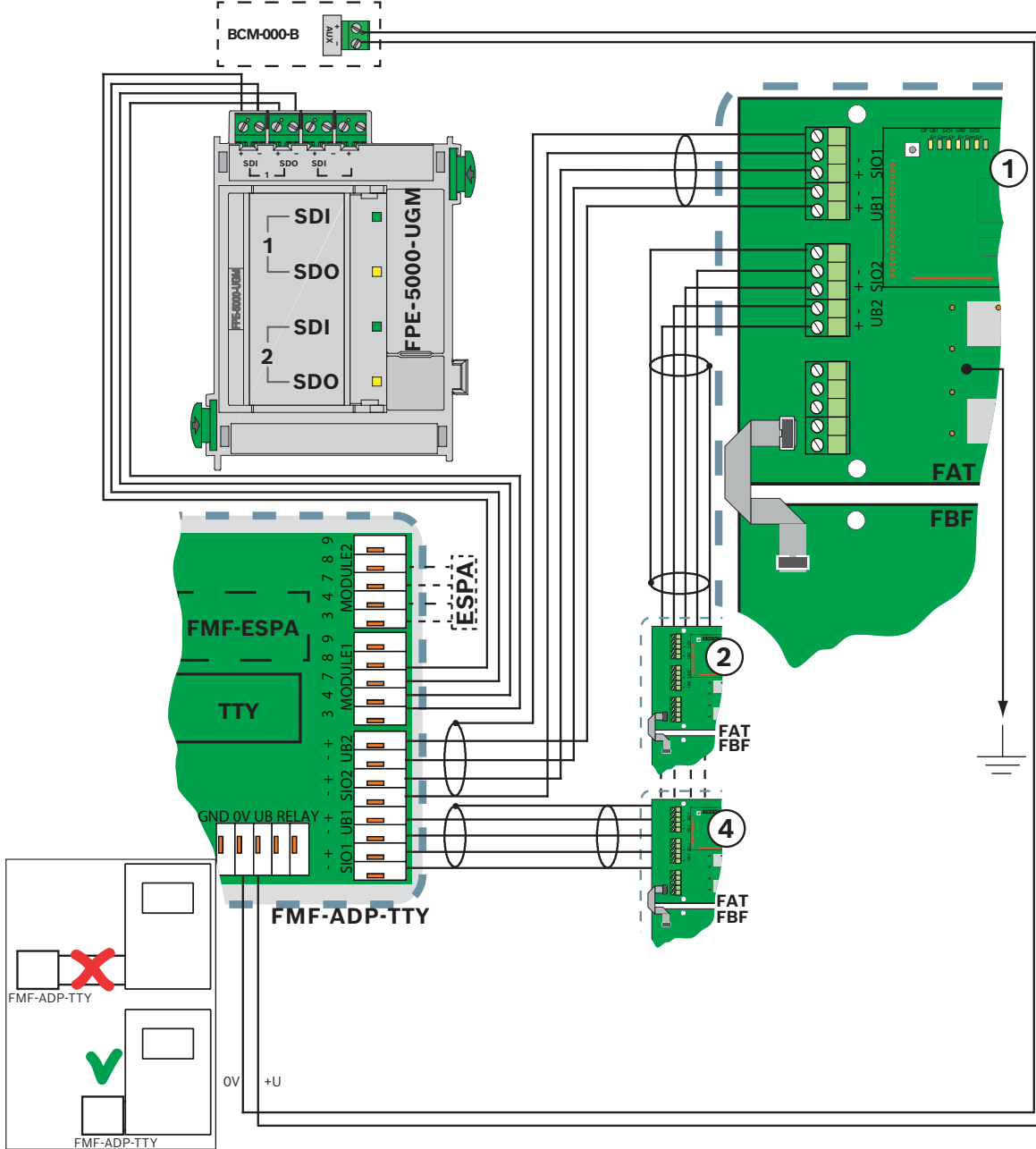
3.3.8

FPE-5000-UGM



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

ELS Vds 2489



## 3.4 Interface Modules



*FLM-420-4/CON-D/S, pagina 115*

*FLM-420-NAC-D/S, pagina 140*

*FLM-420-RLE-S, pagina 153*

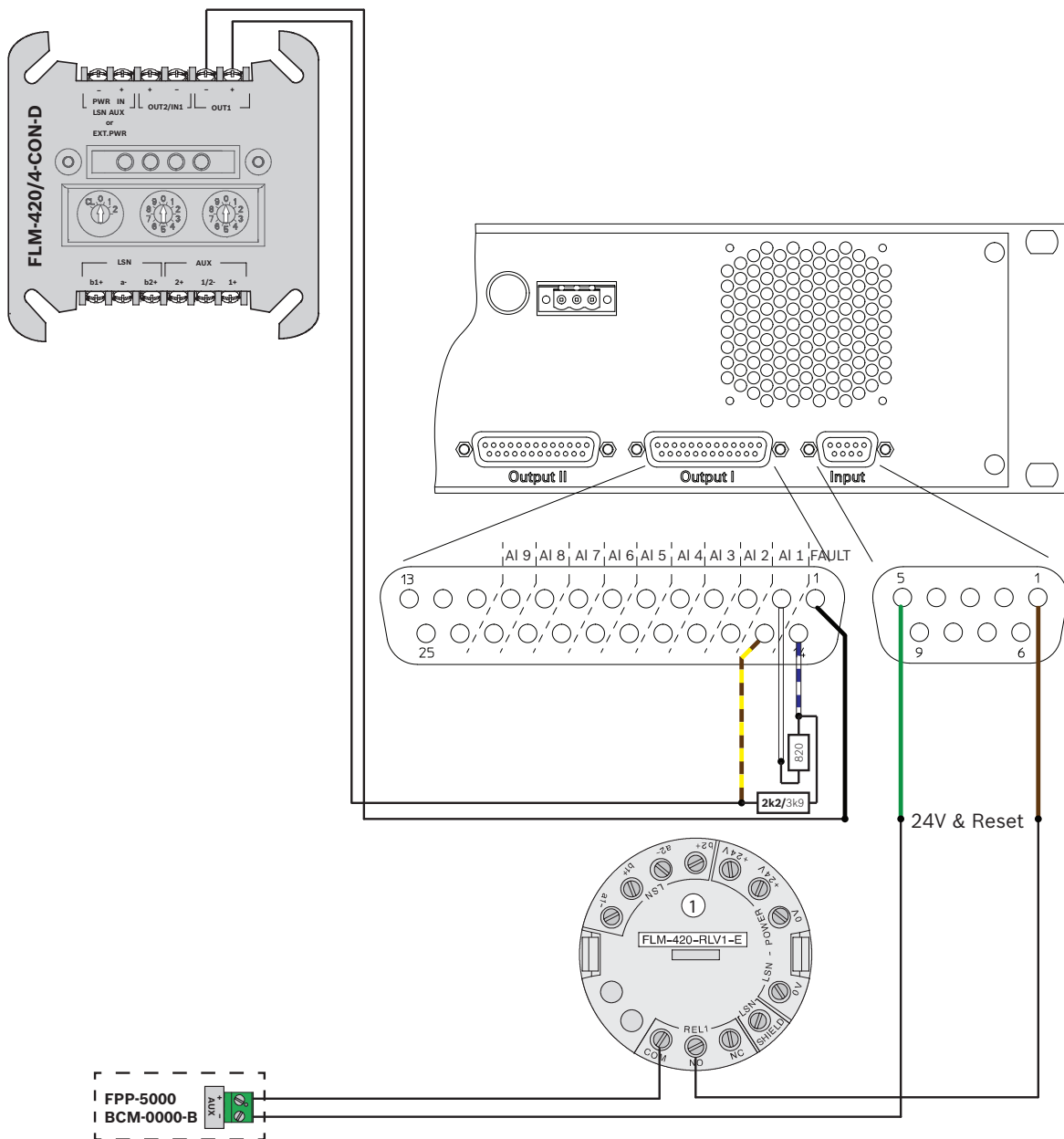
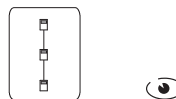
*FLM-420-RLV1-E, pagina 154*

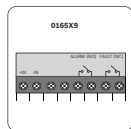
*FLM-420-RLV8-S, pagina 155*

*FMF-ADP-FBF/FMF-ADP-TTY, pagina 156*

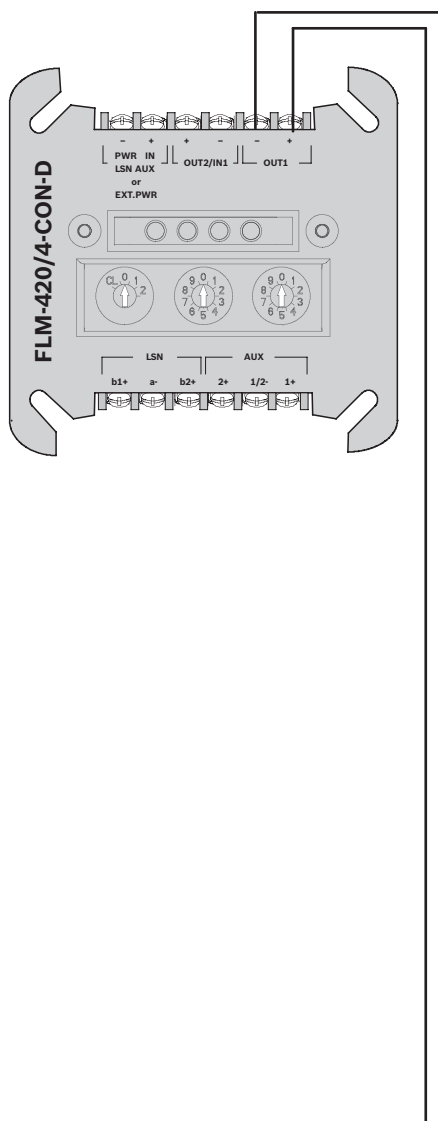
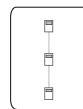


### 3.4.1 FLM-420-4/CON-D/S

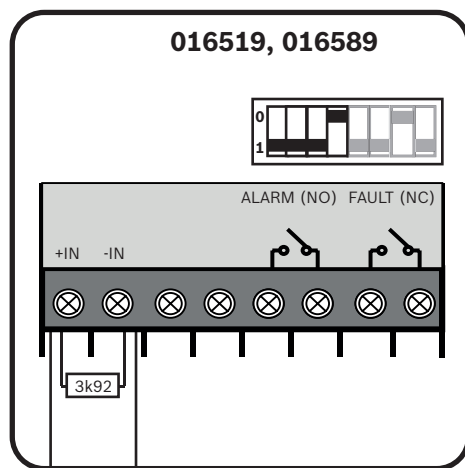


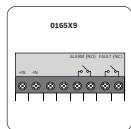


**016519, 016589  
IR3 Flame Detector**

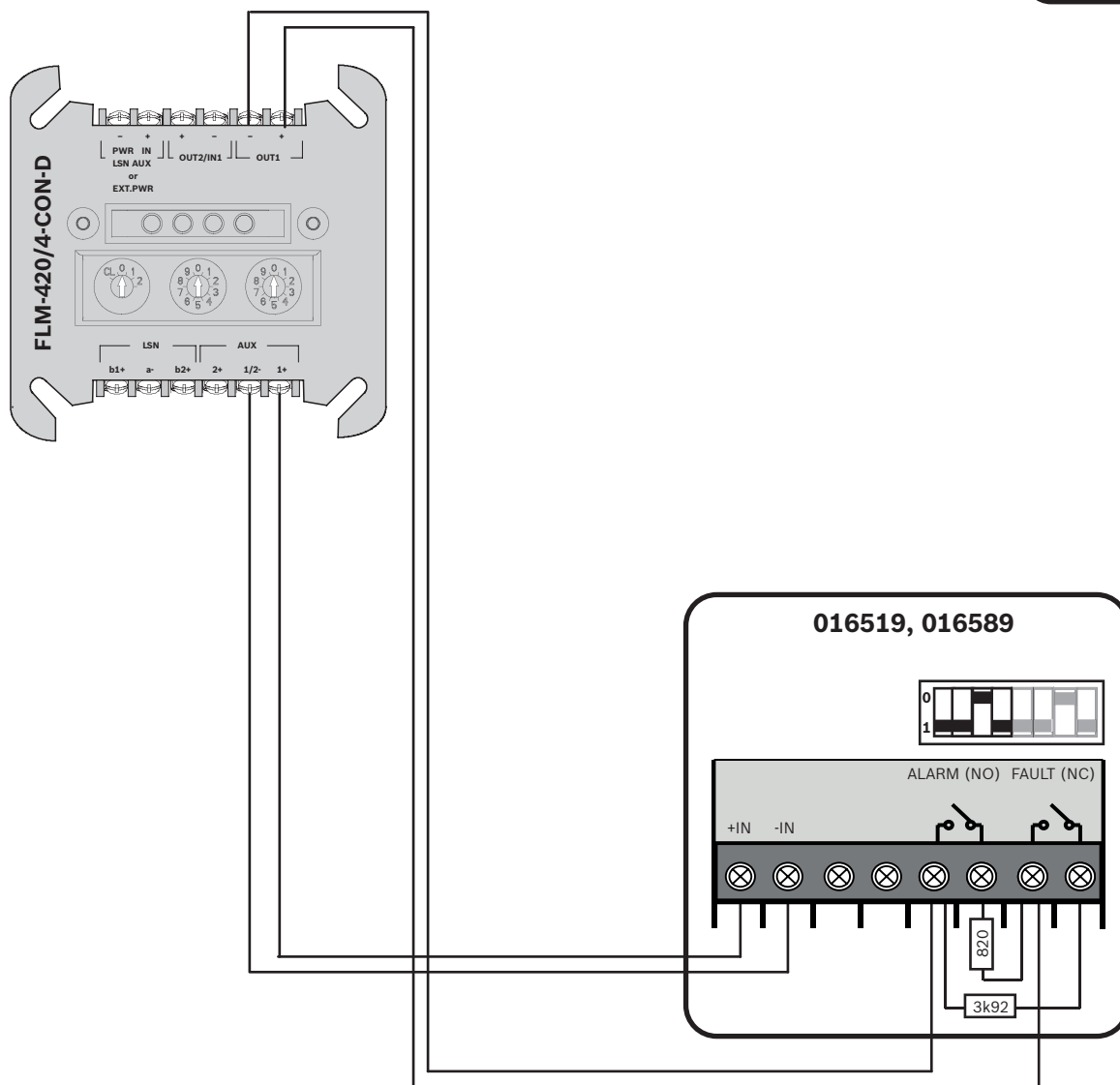
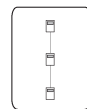


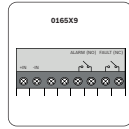
**max. 1 x 0165X9**



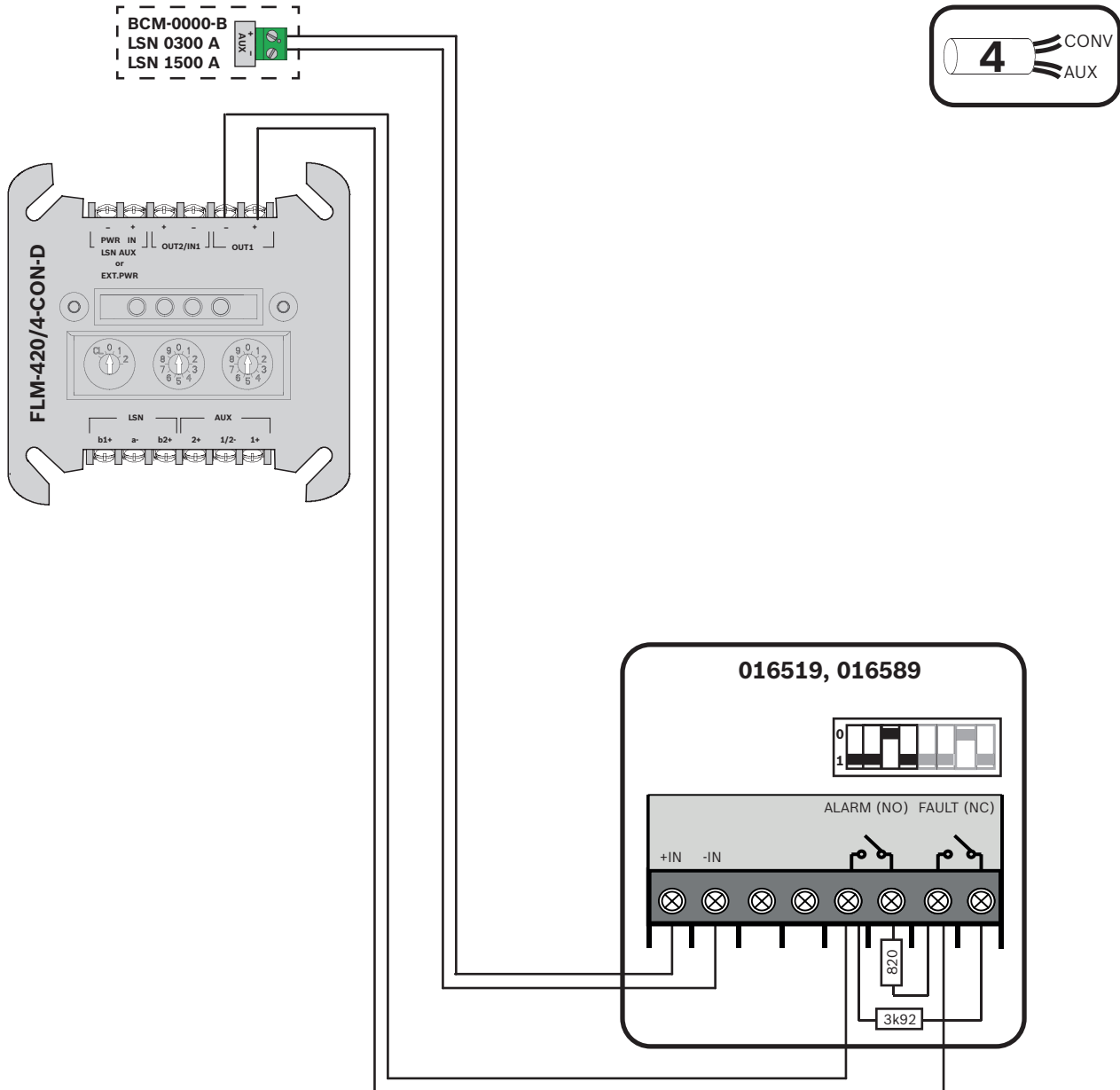
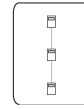


**016519, 016589**  
**IR3 Flame Detector**



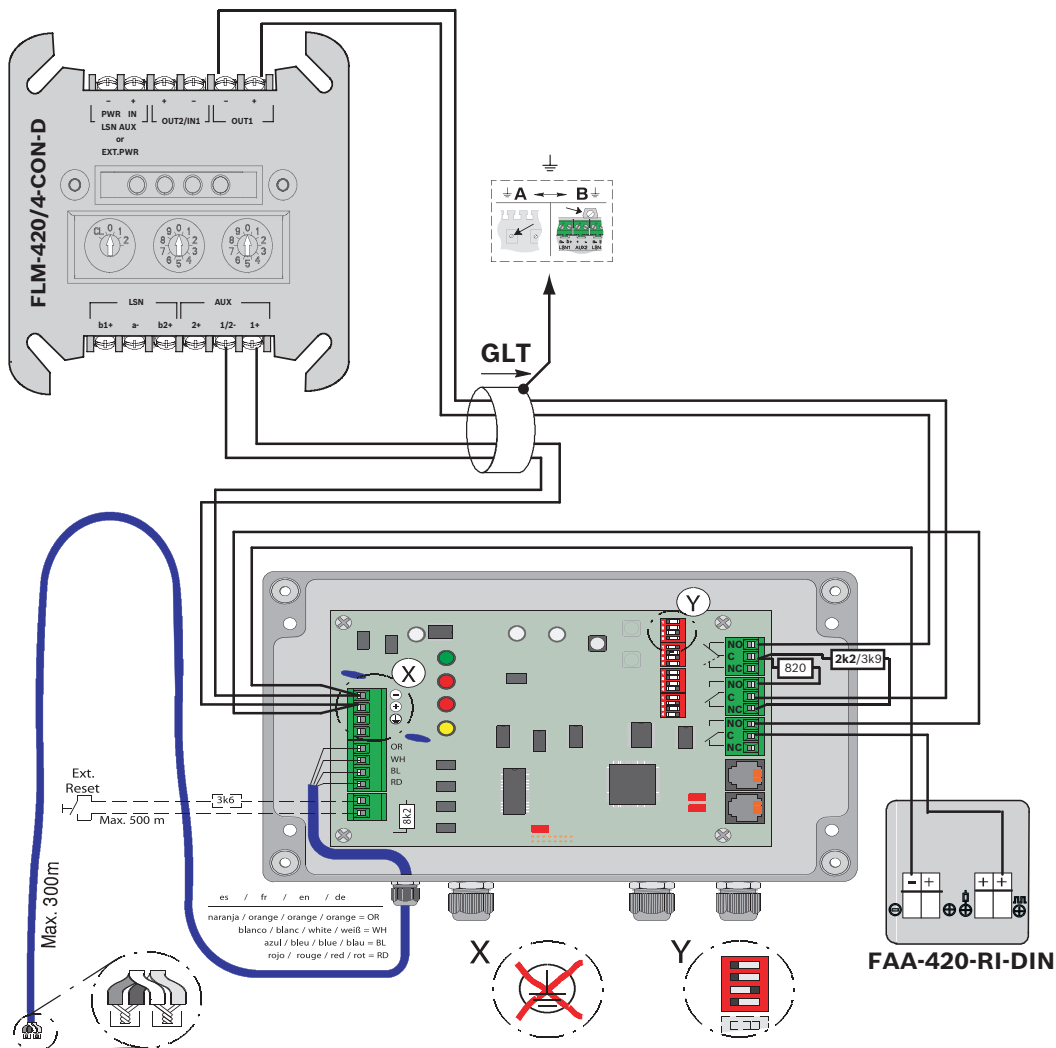
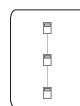


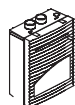
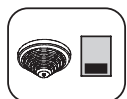
**016519, 016589**  
**IR3 Flame Detector**





FCS-LWM-1

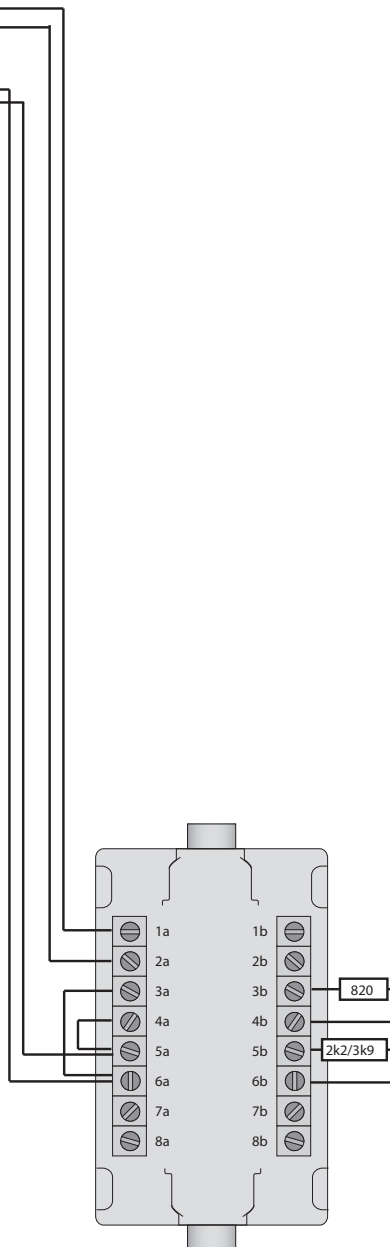
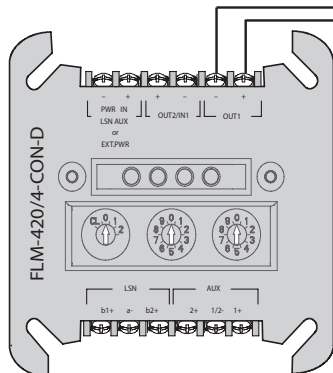
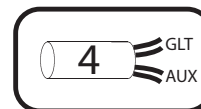


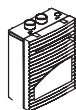


FCS-320-TM Series



BCM-0000-B  
LSN 0300 A  
LSN 1500 A

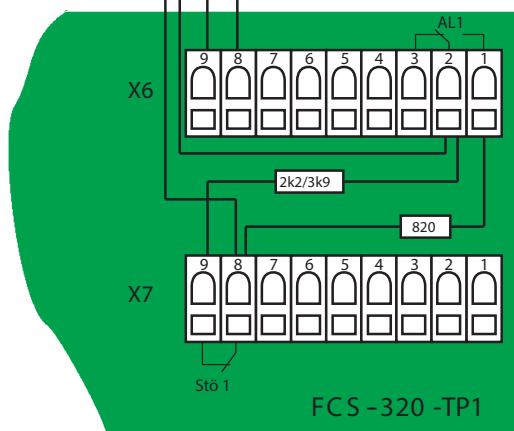
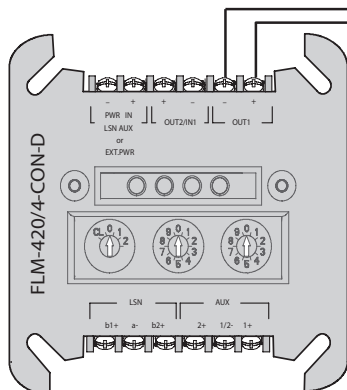
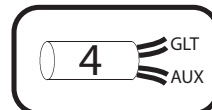


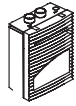


FCS-320-TP Series

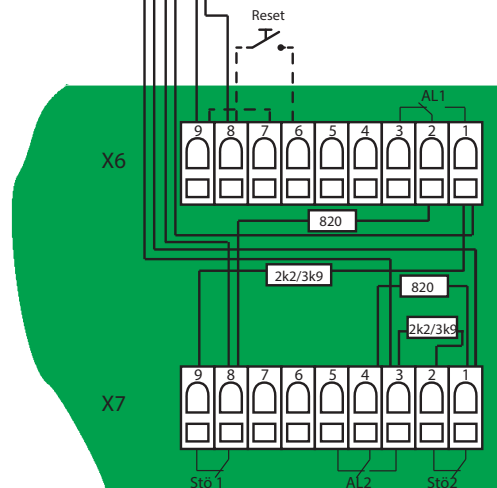
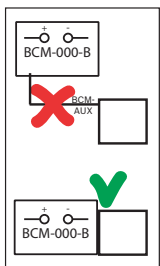
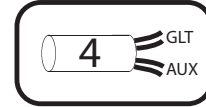
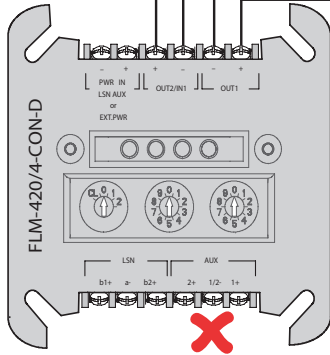
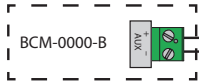


BCM-0000-B  
LSN 0300 A  
LSN 1500 A



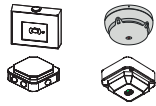


FCS-320-TP Series

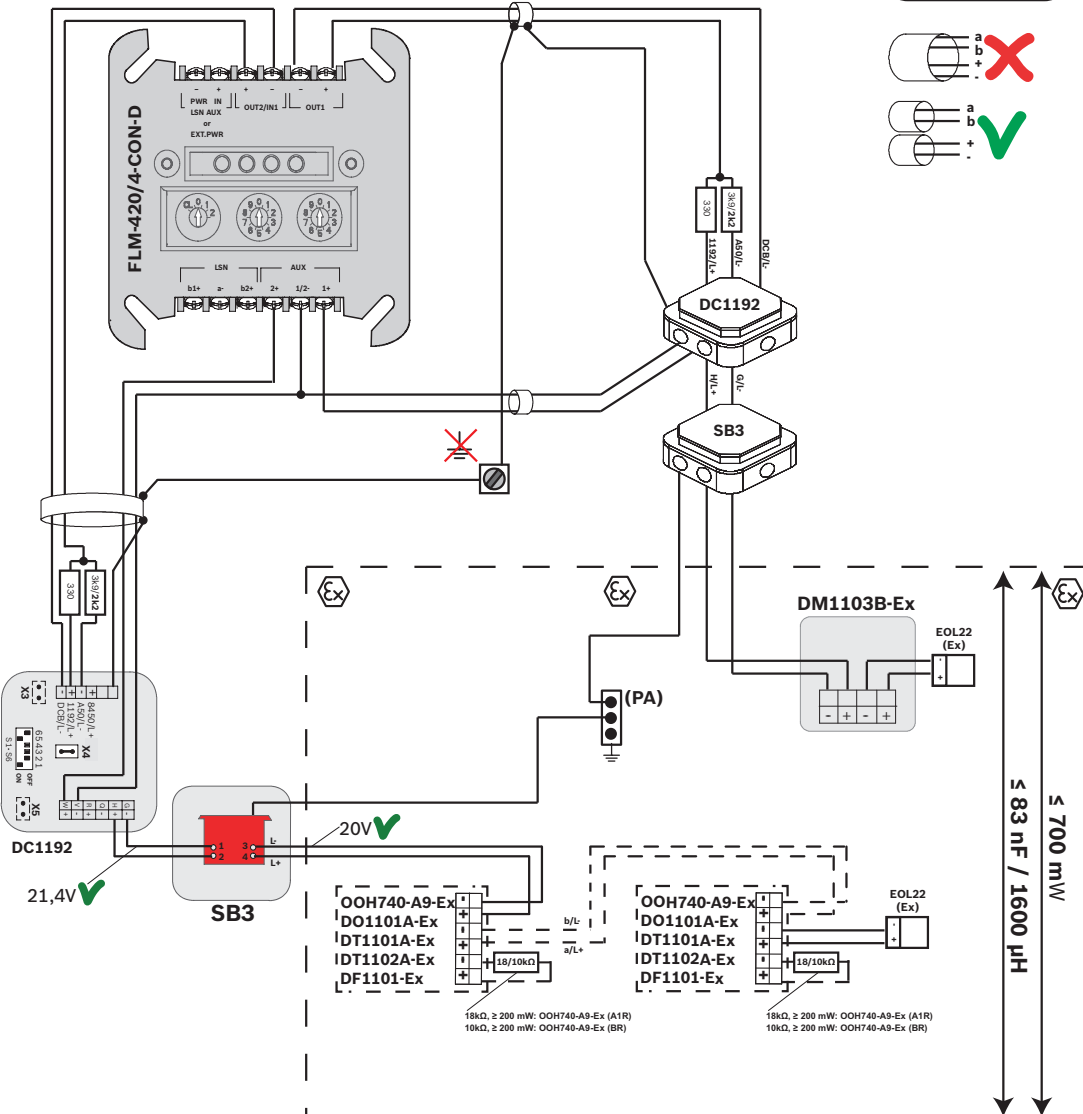
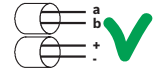
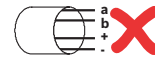
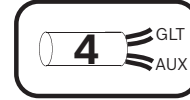


FCS-320-TP2



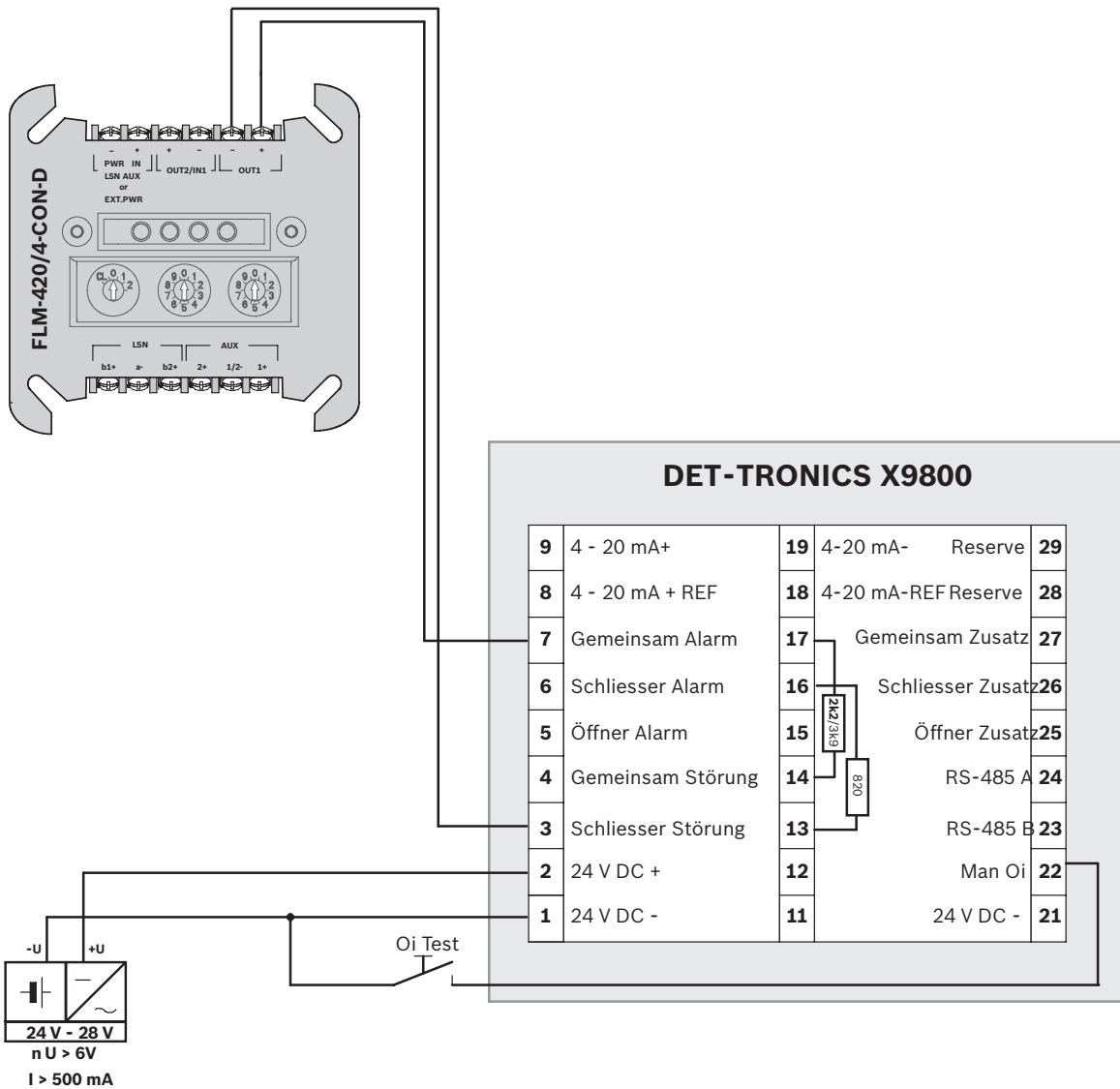
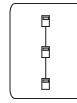


DC1192, SB3  
OOH740-A9-Ex  
DO1101A-Ex  
DT1101A-Ex/DT1102A-Ex  
DF1101-Ex  
DM1103B-Ex



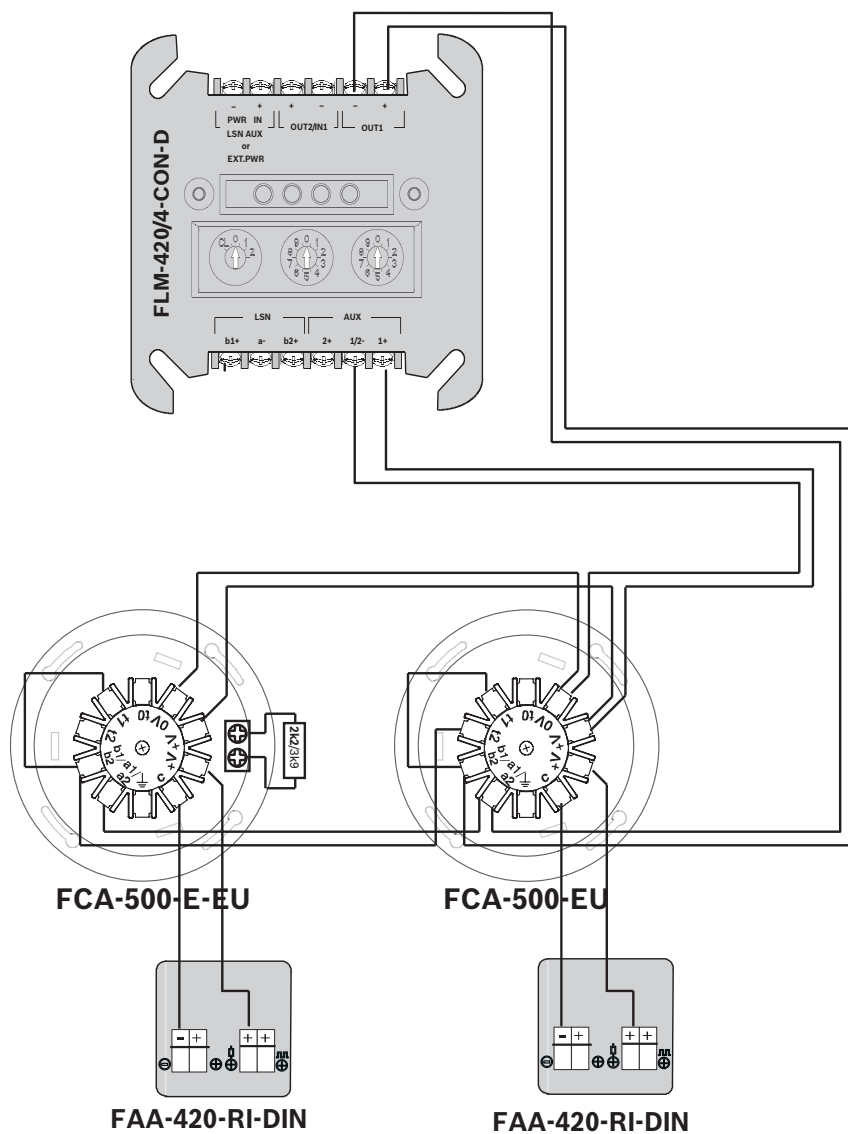


**DET-TRONICS X9800**



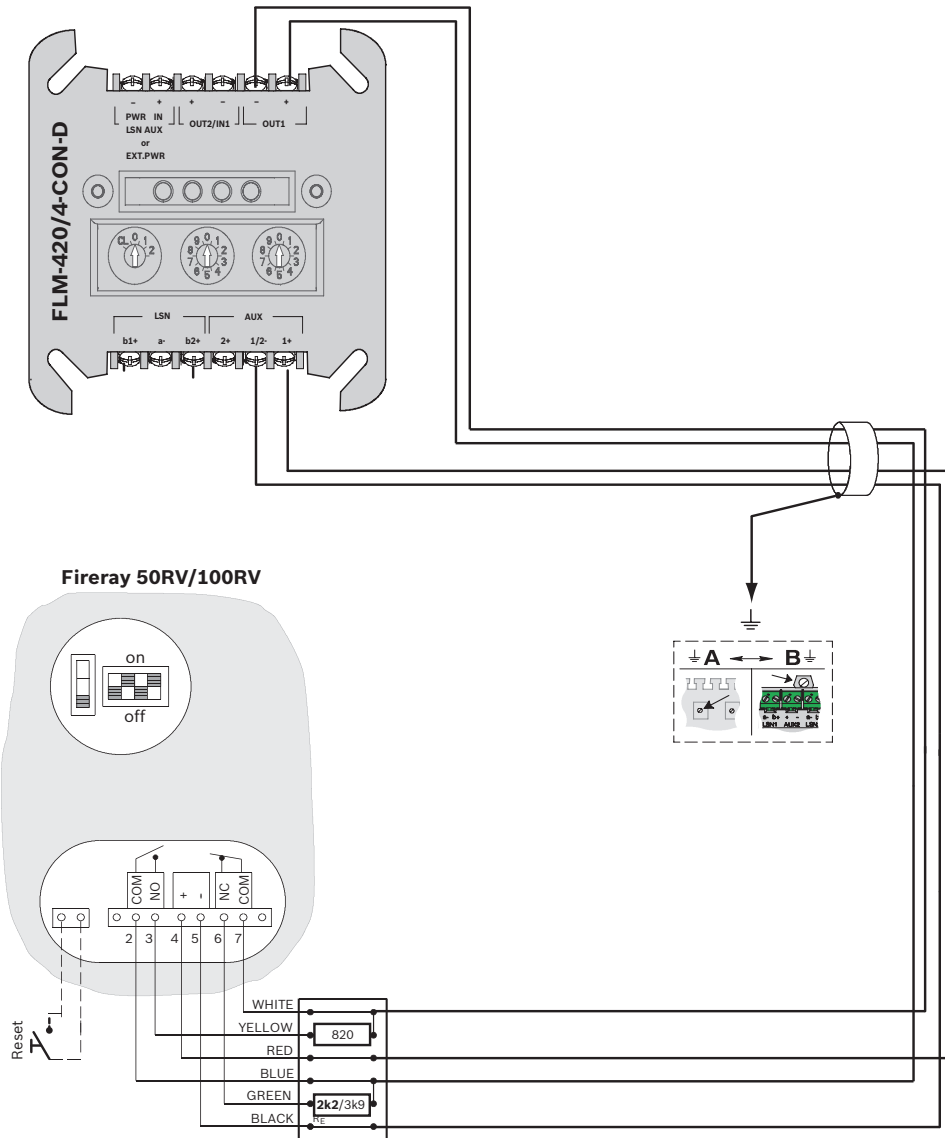


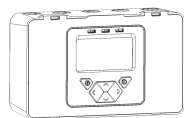
FCP-500





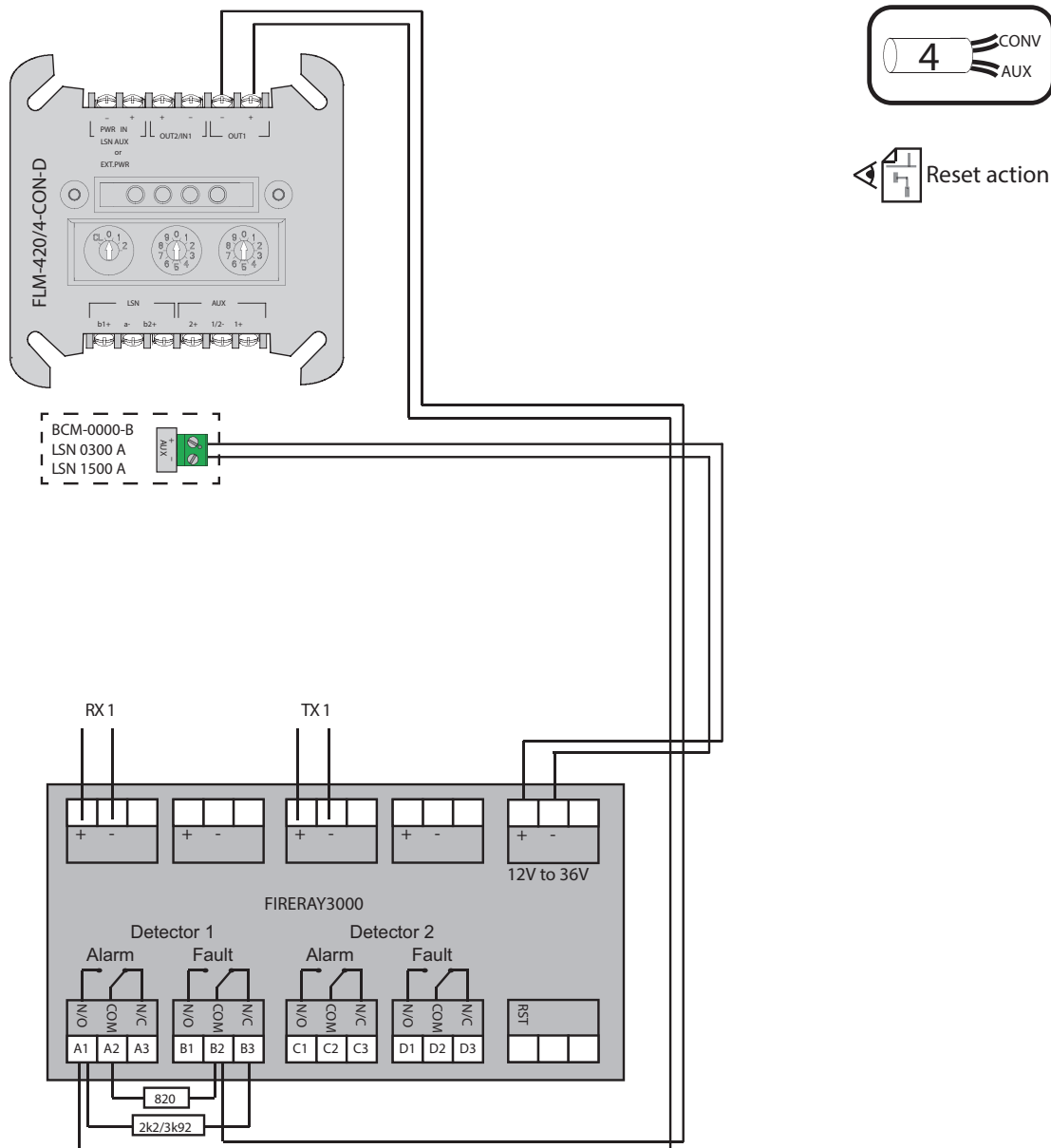
**Fireray 50RV  
Fireray 100RV**





FIRMARAY3000

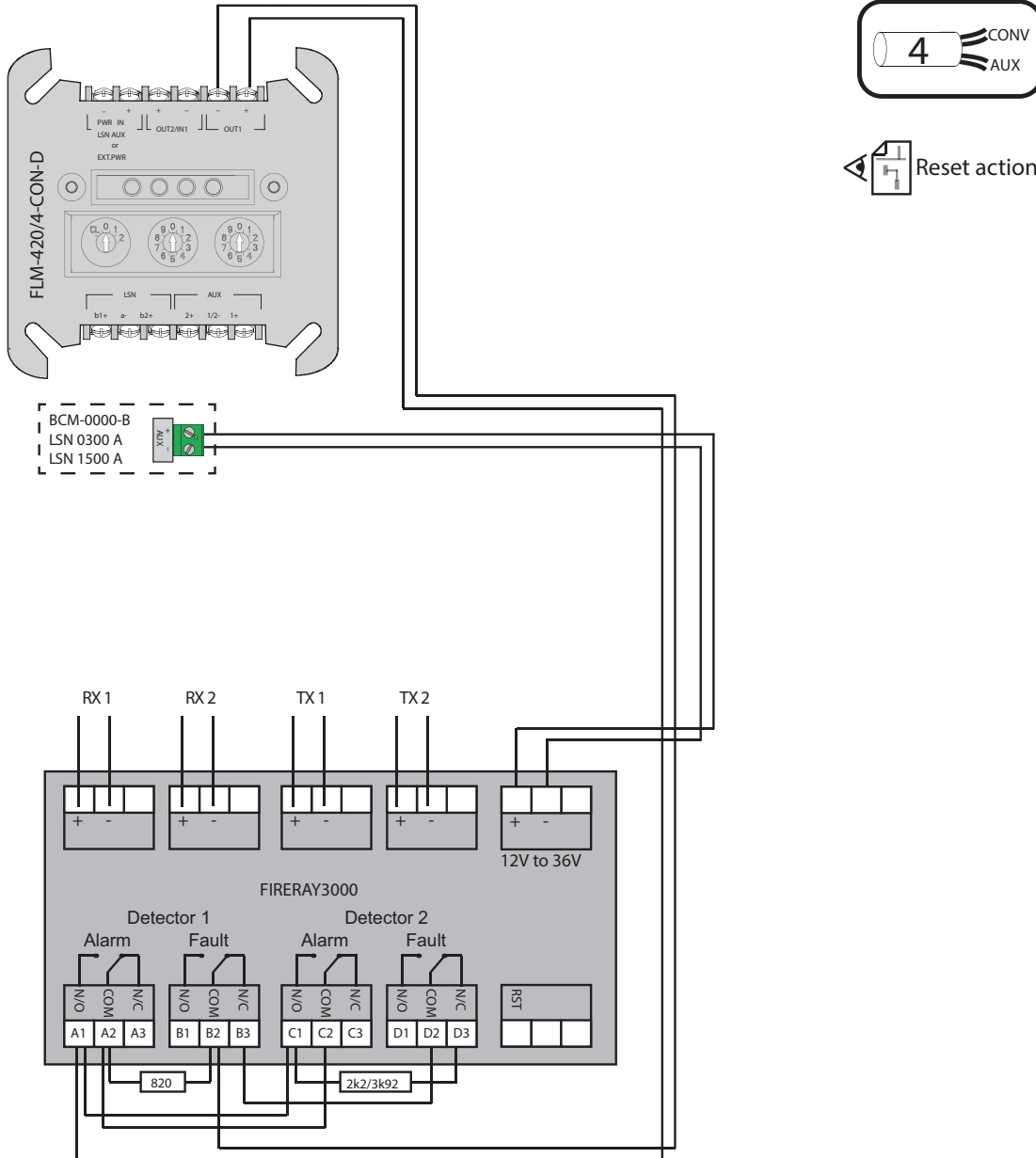
1 x





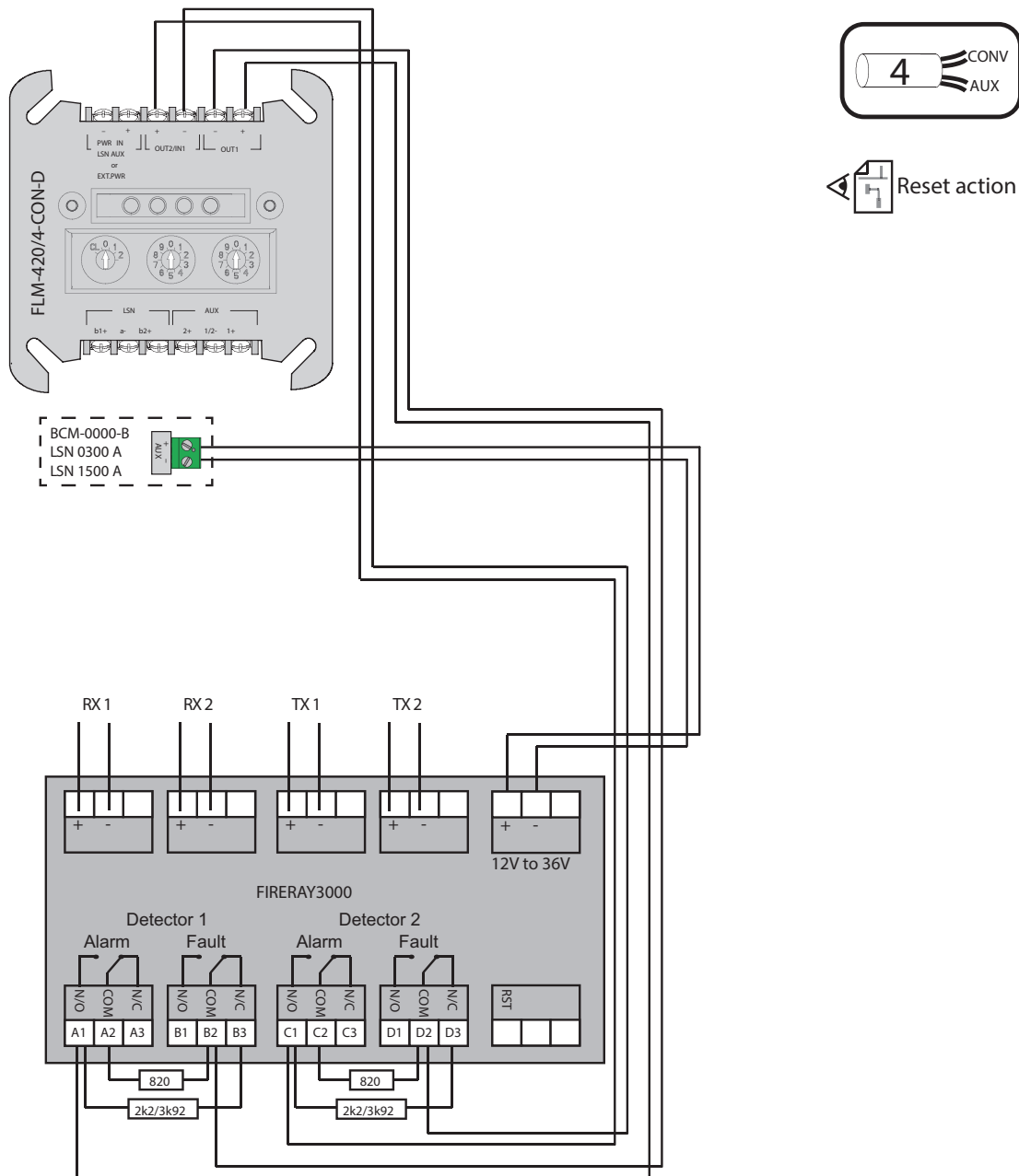
FIRMARAY3000

2 x 1





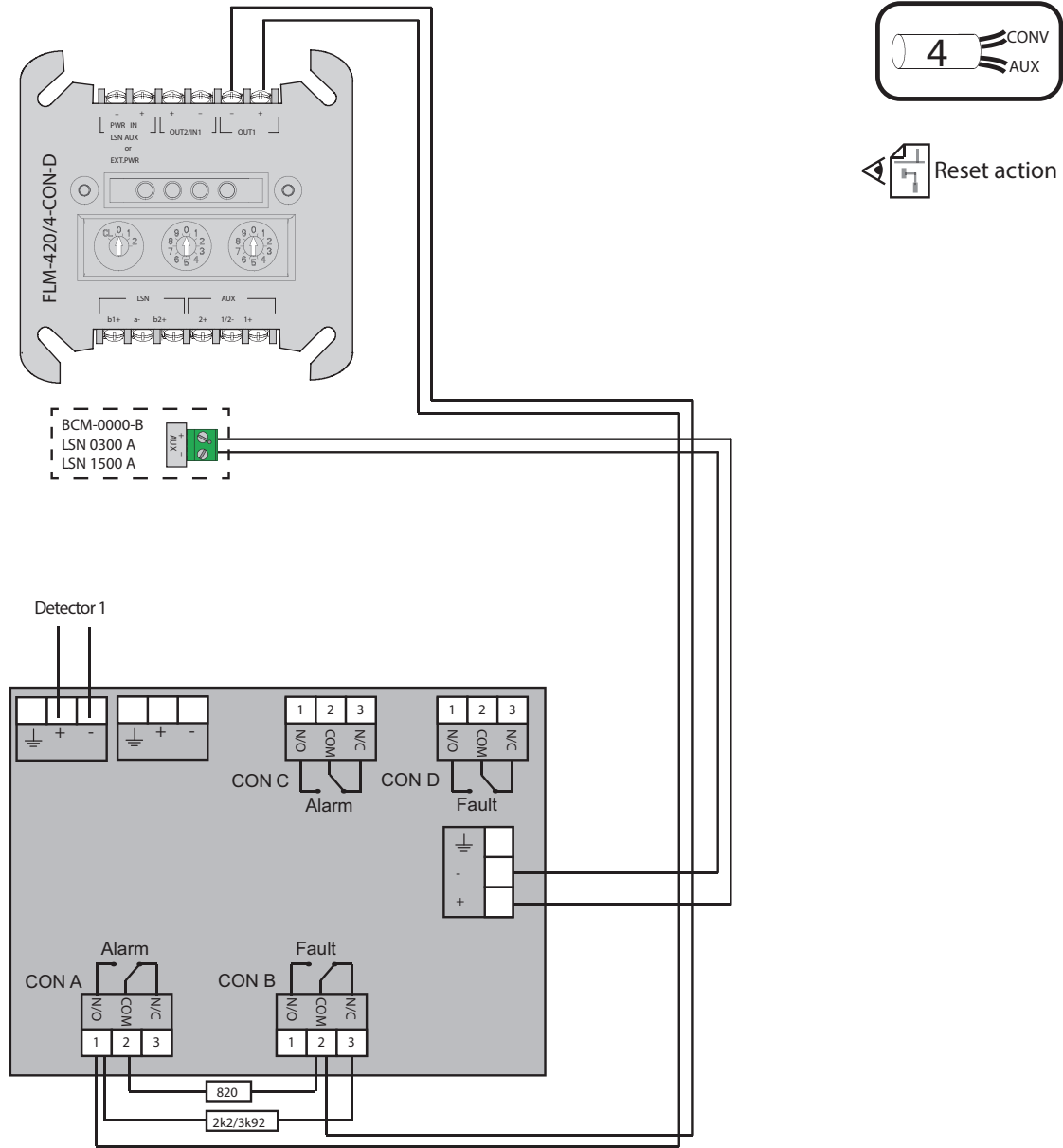
FIRERAY3000  
2 x 1+2





FIRERAY5000

1 x

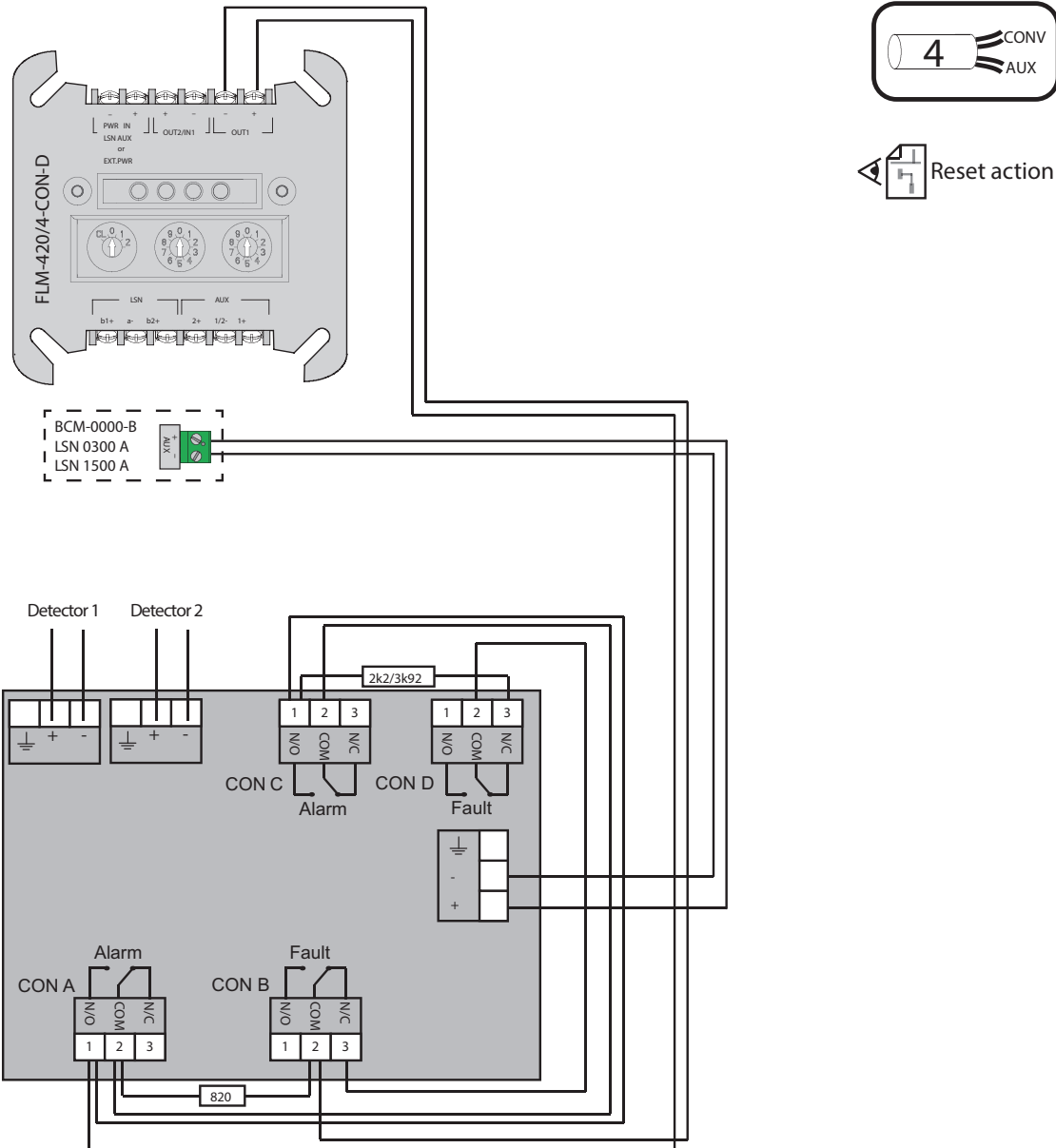






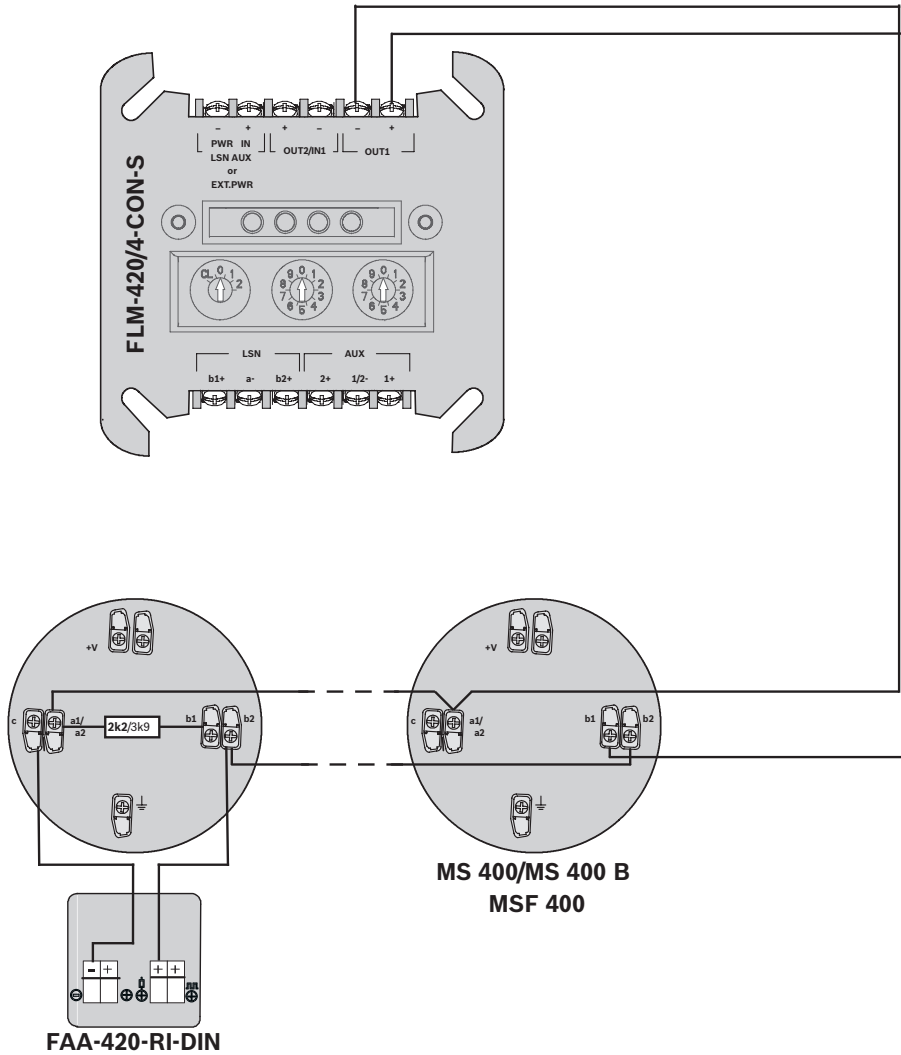
FIRERAY5000

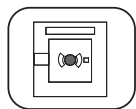
2 x OUT1



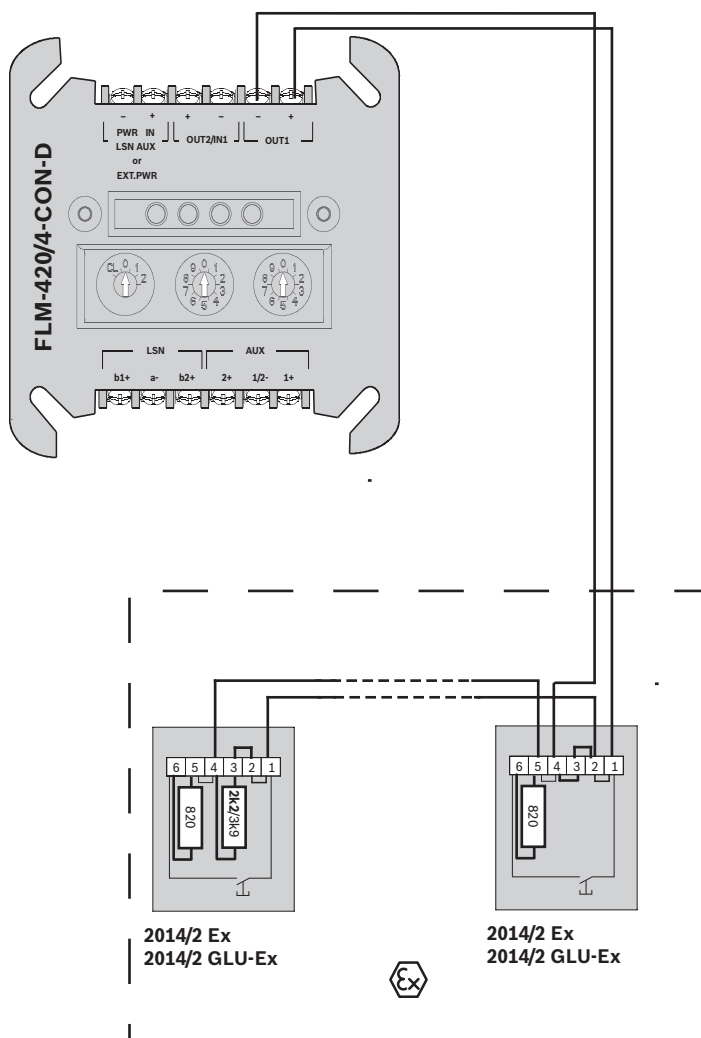
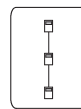


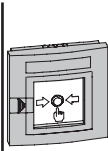
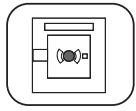
FAP-425-O/O-R/OT/OT-R/T-R  
 FAP-425-DO-R/DOT-R/DOTC-R  
 FCH-320-T320/T320-R470/T320-FSA  
 FCP-O320/O320-R470  
 FCP-OC320/OC320-R470  
 FCP-OT320/OT320-R470



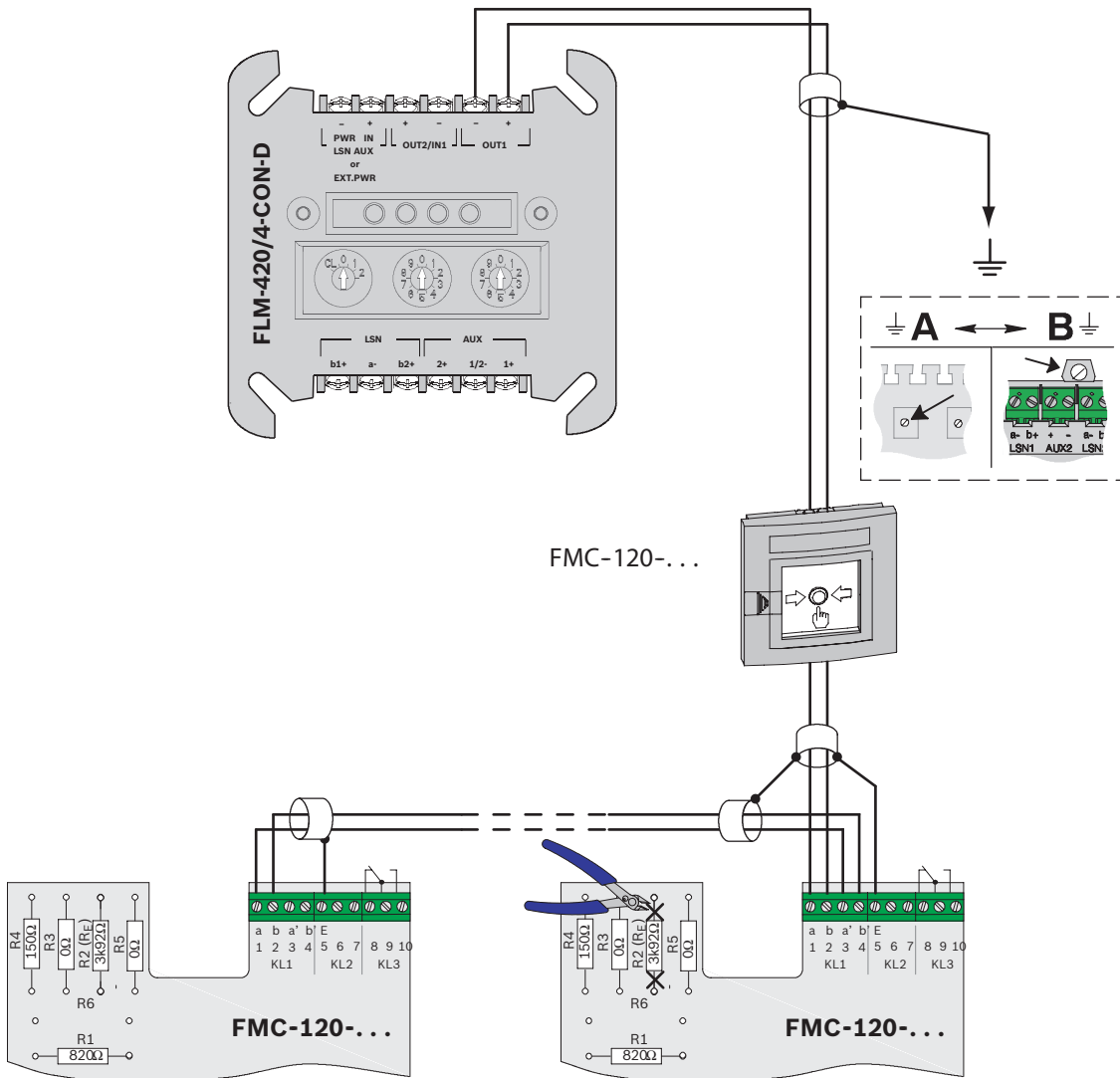
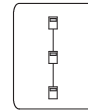


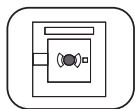
**2014/2 Ex**  
**2014/2 GLU-Ex**



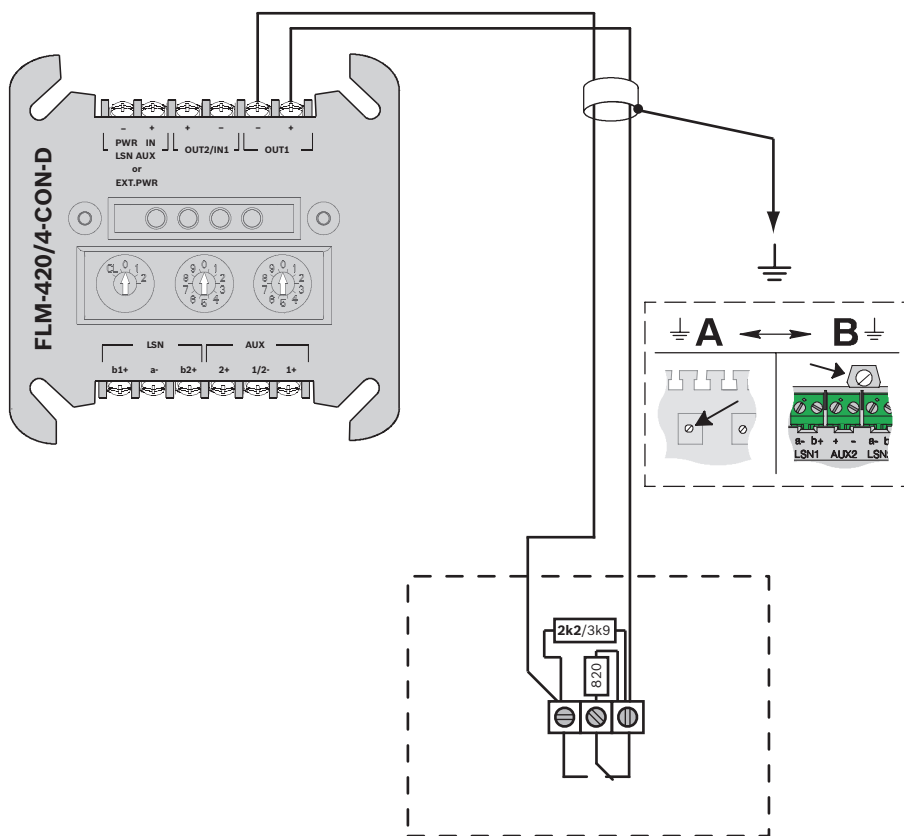
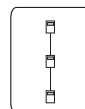


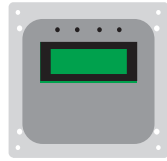
**FMC-120-DKM-G-R FMC-120-DKM-G-Y**  
**FMC-120-DKM-H-R FMC-120-EST-G-B**  
**FMC-120-DKM-G-B**  
**FMC-120-DKM-H-B**



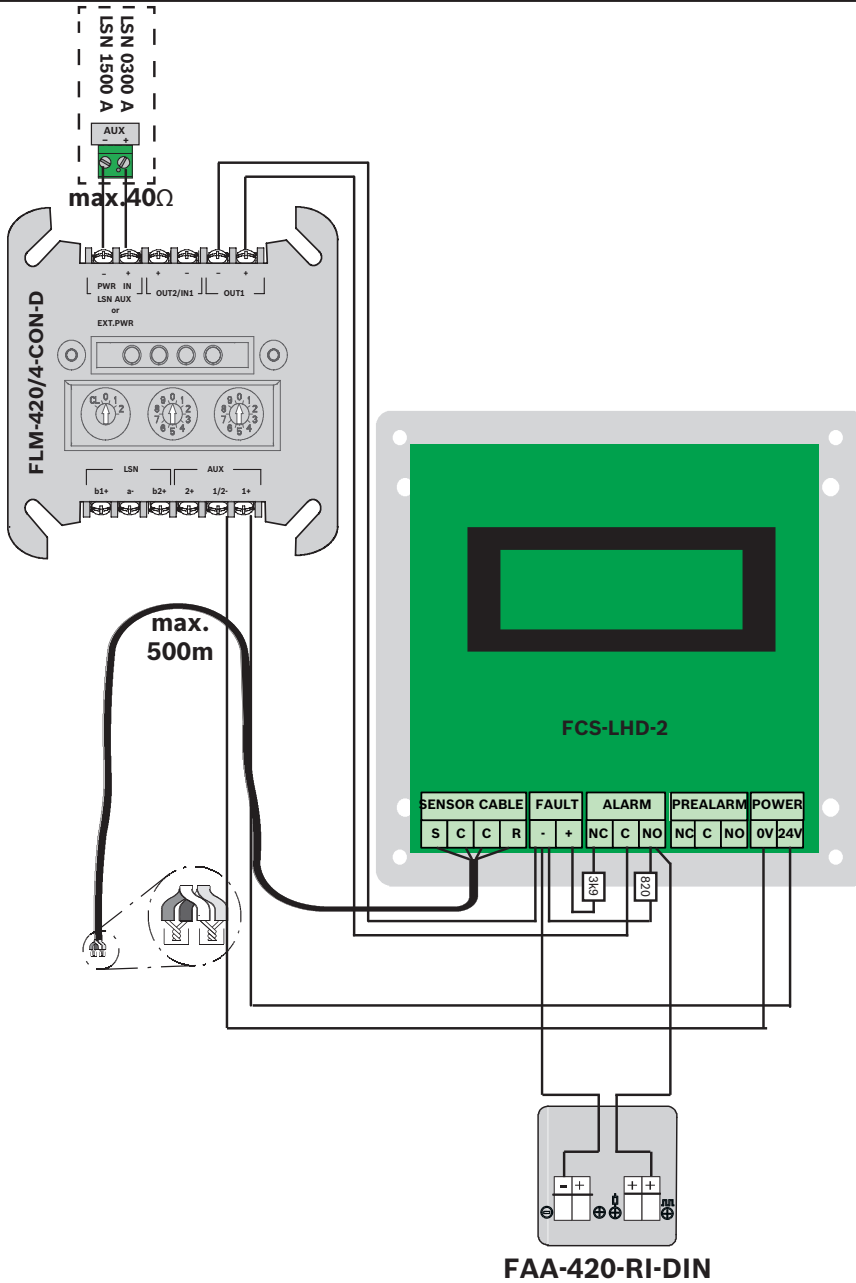
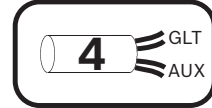
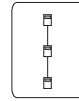


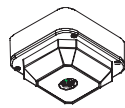
NO



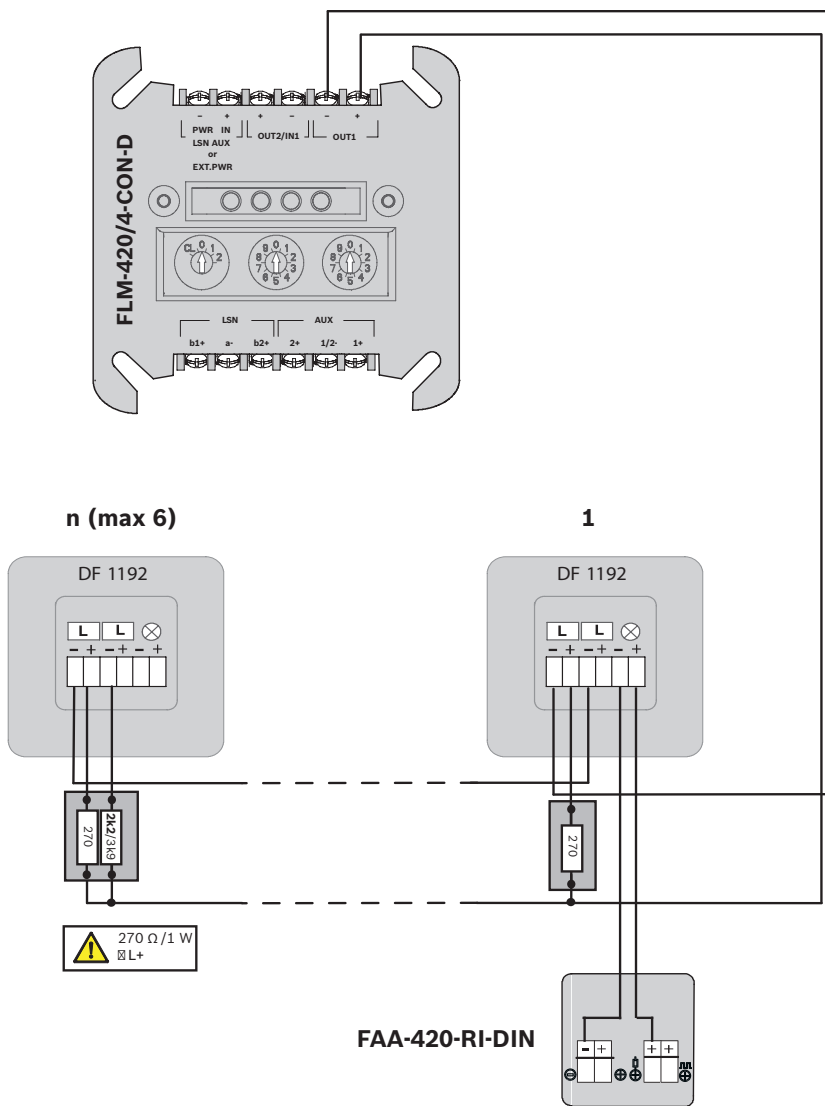


ALARMLINE II



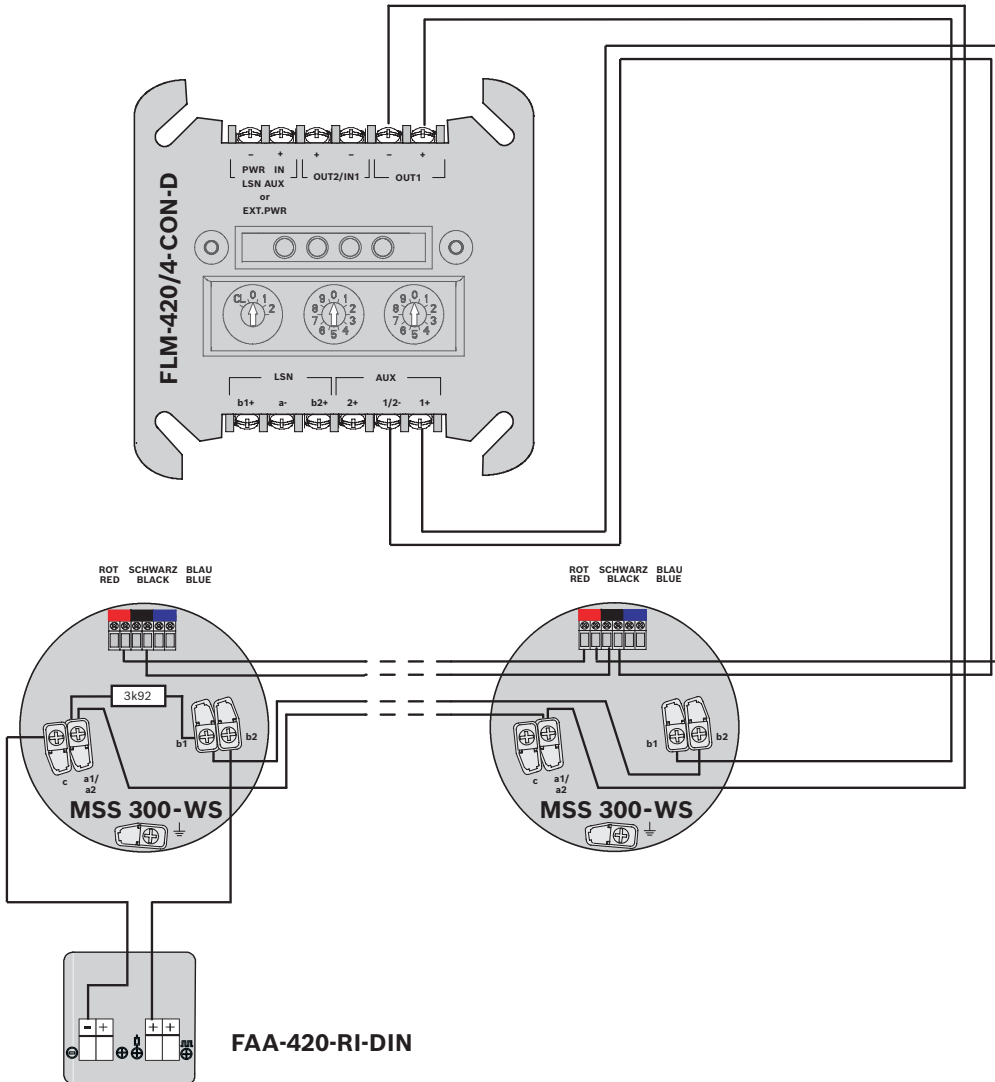


DF 1192

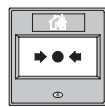
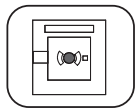




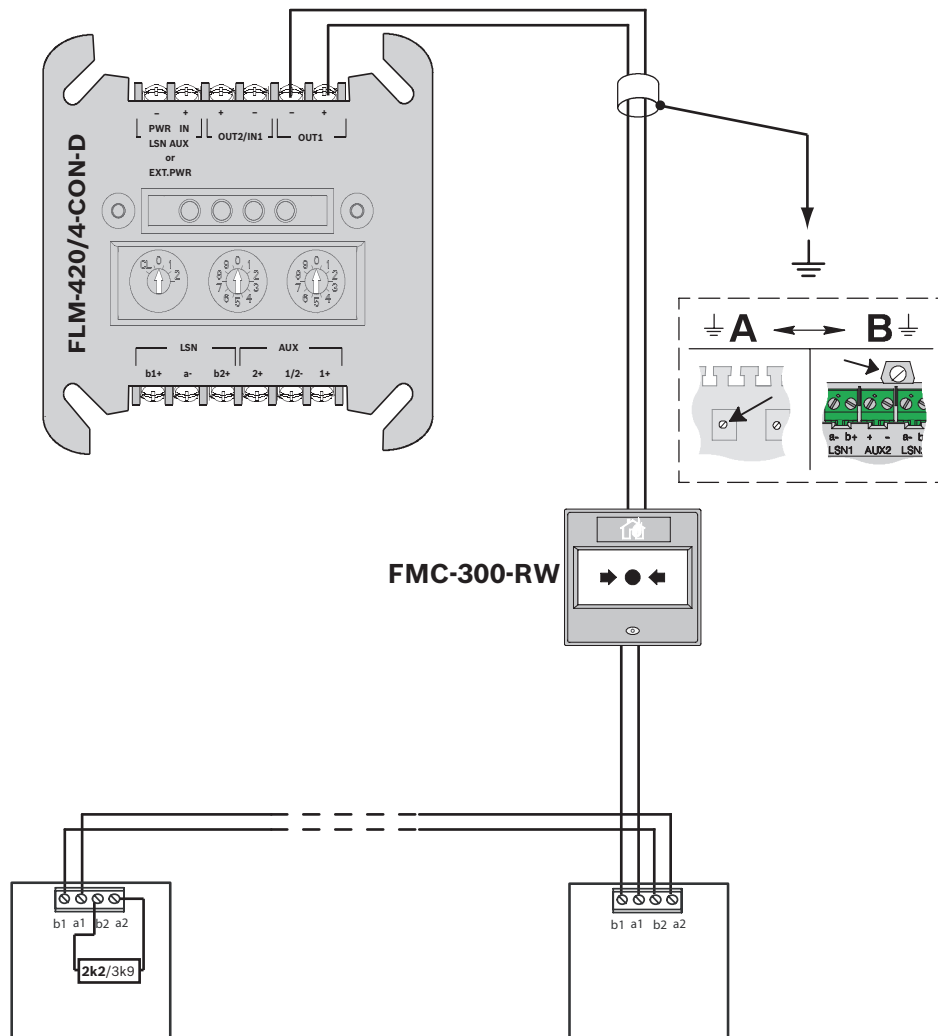
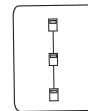
MSS 300-WS



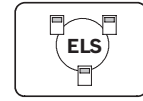




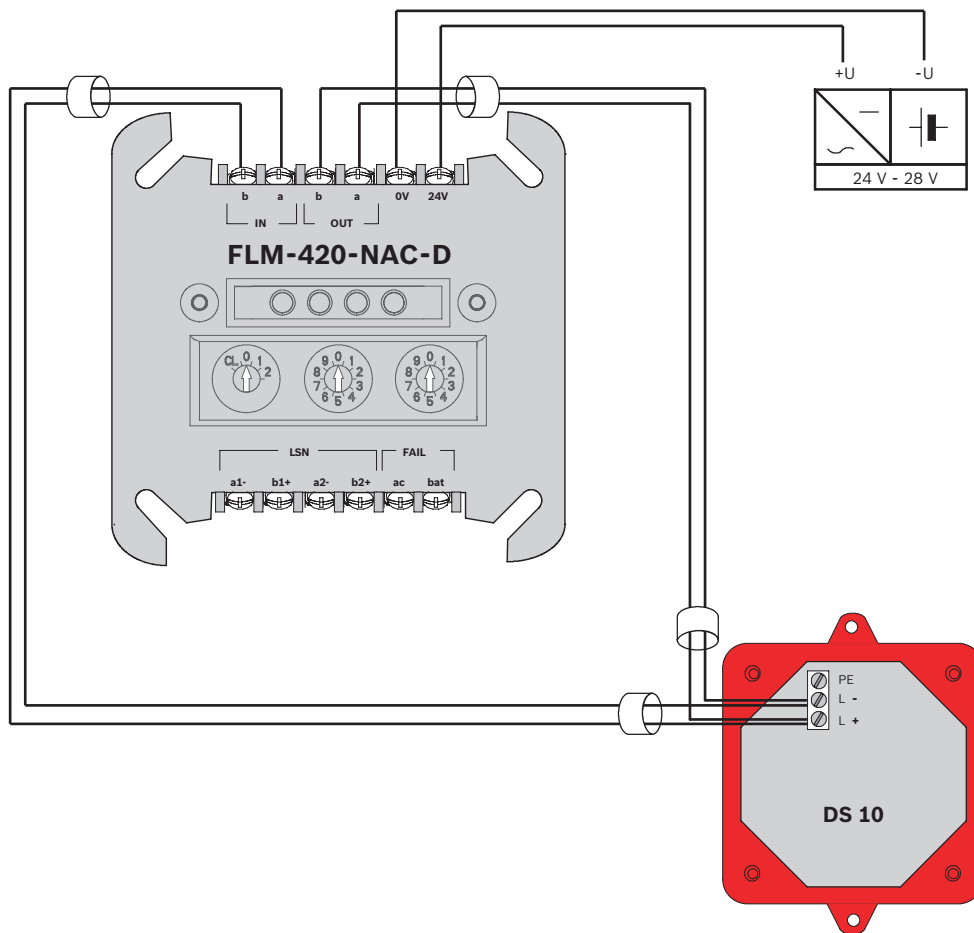
**FMC-300-RW**

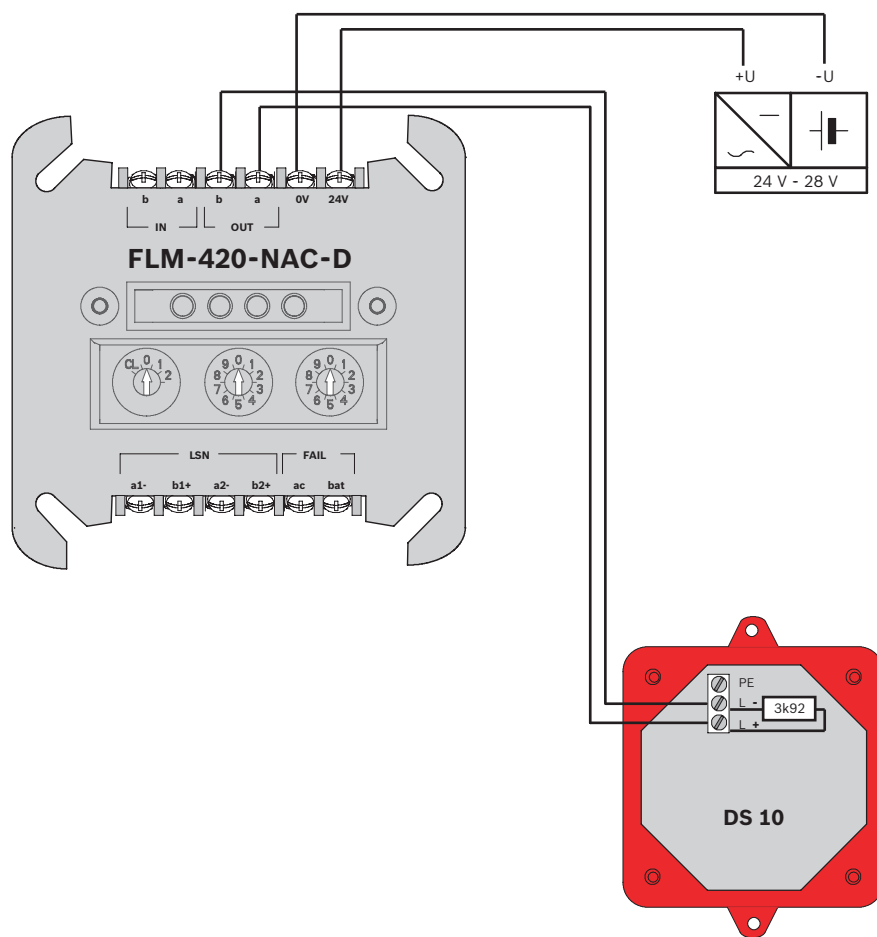
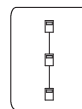


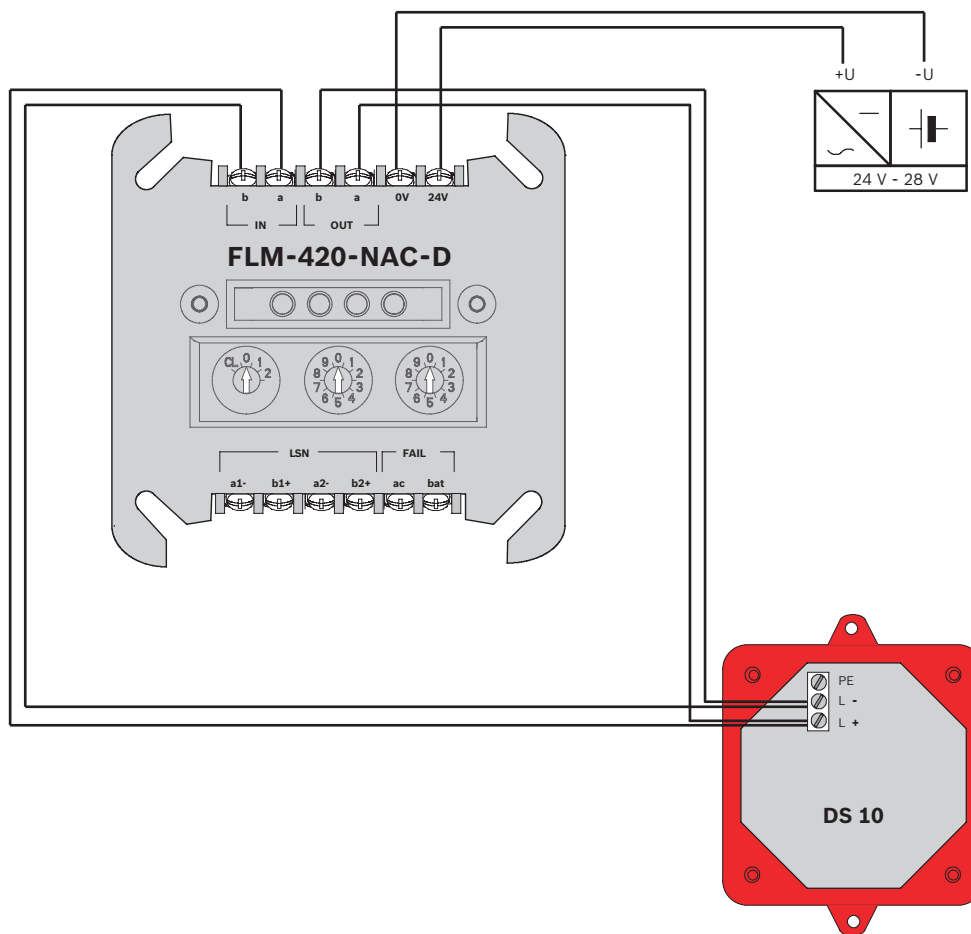
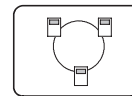
### 3.4.2 FLM-420-NAC-D/S



VdS 2489

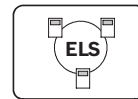




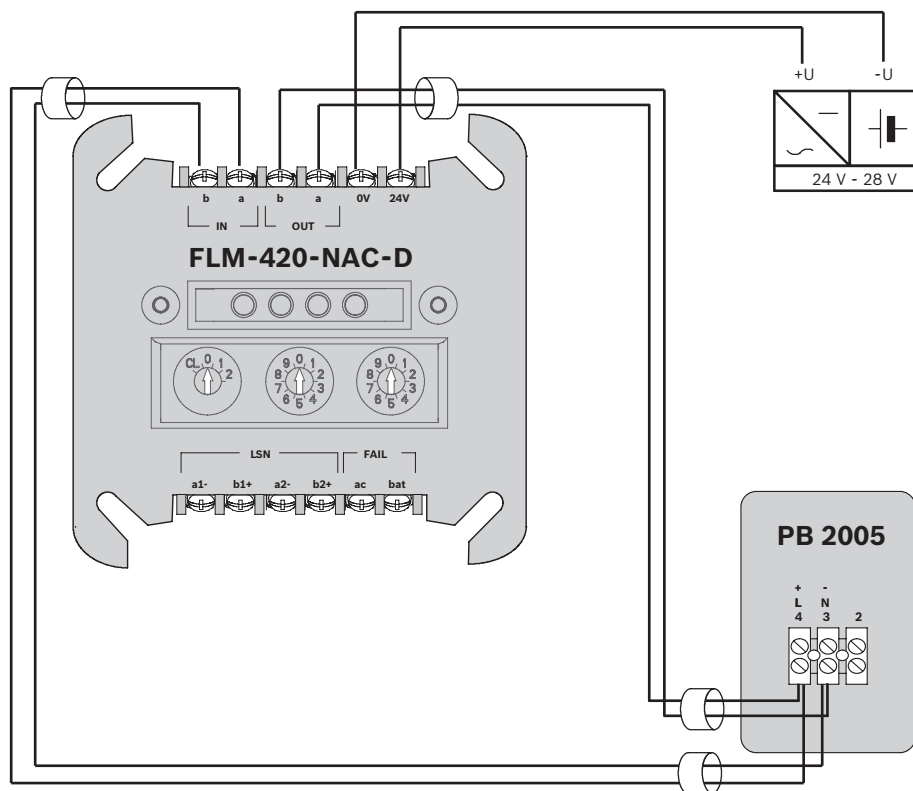




**PB 2005**

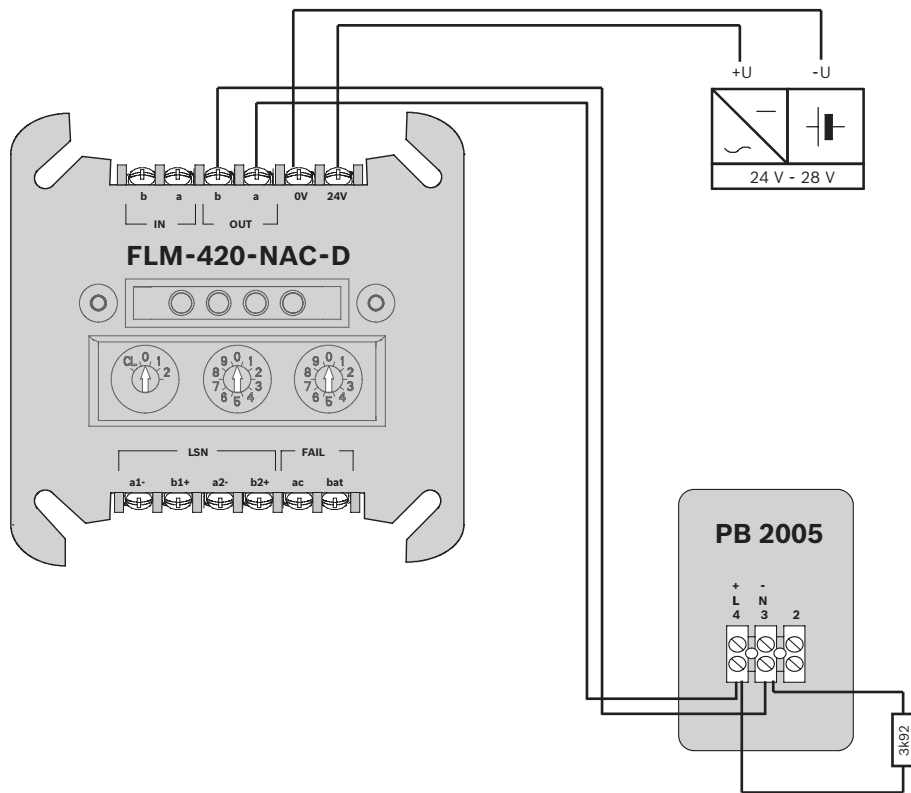
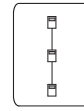


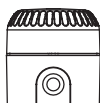
**Vds 2489**



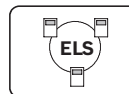


**PB 2005**

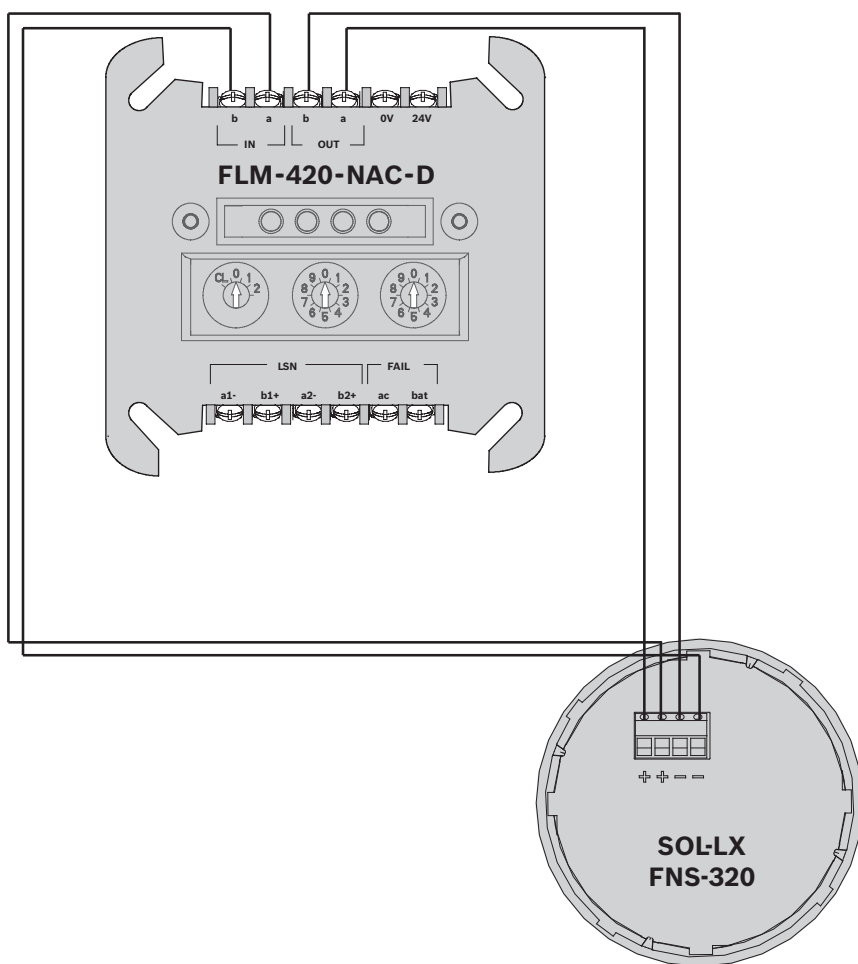


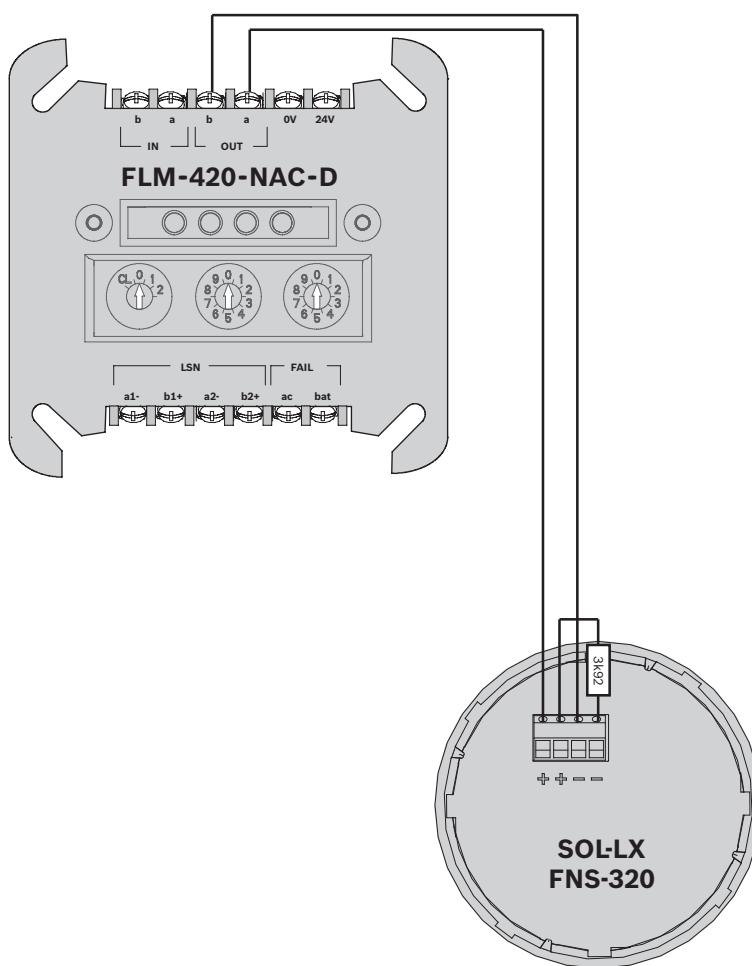
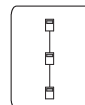


**SOL-LX  
FNS-320**

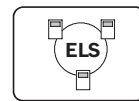


**VdS 2489**

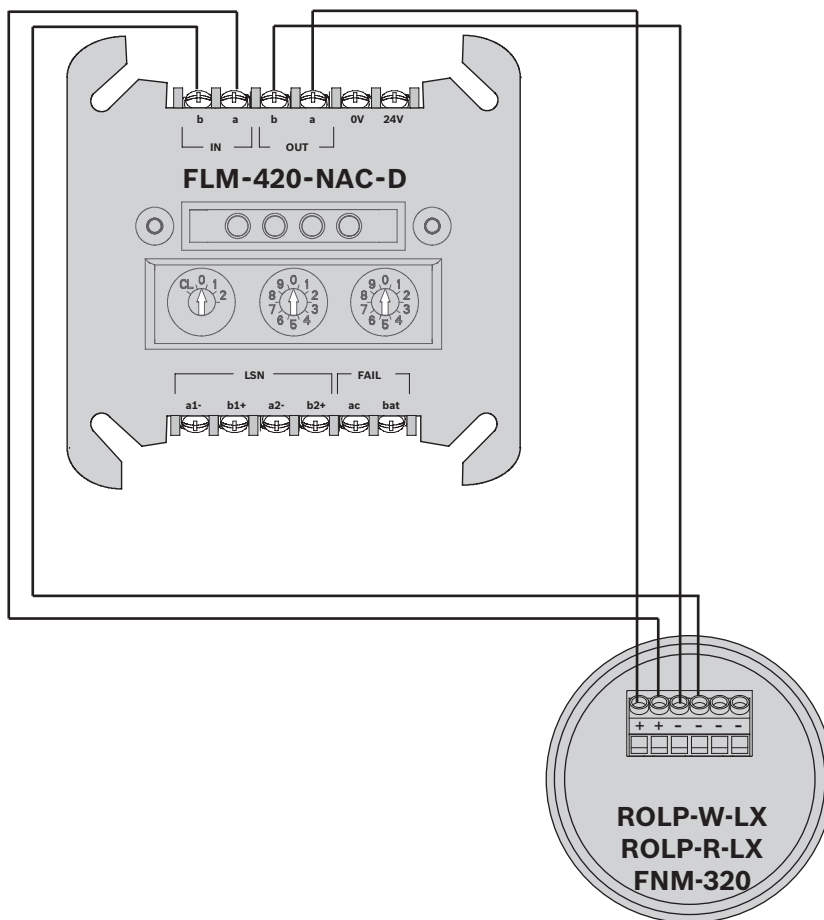






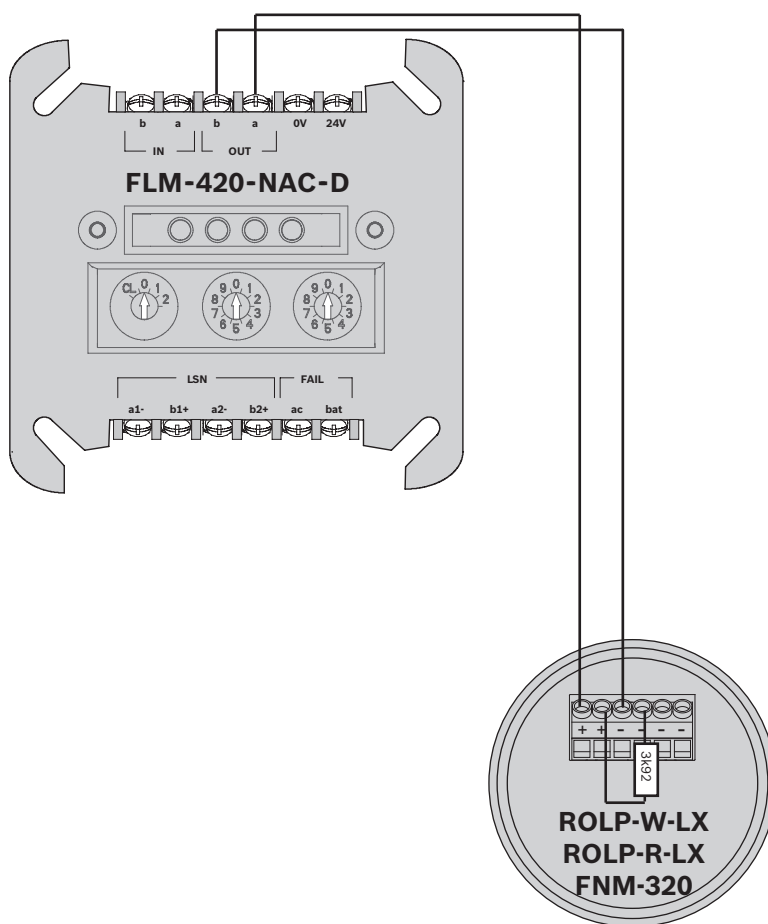
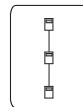


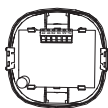
VdS 2489



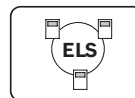


**ROLP-W-LX**  
**ROLP-R-LX**  
**FNM-320**

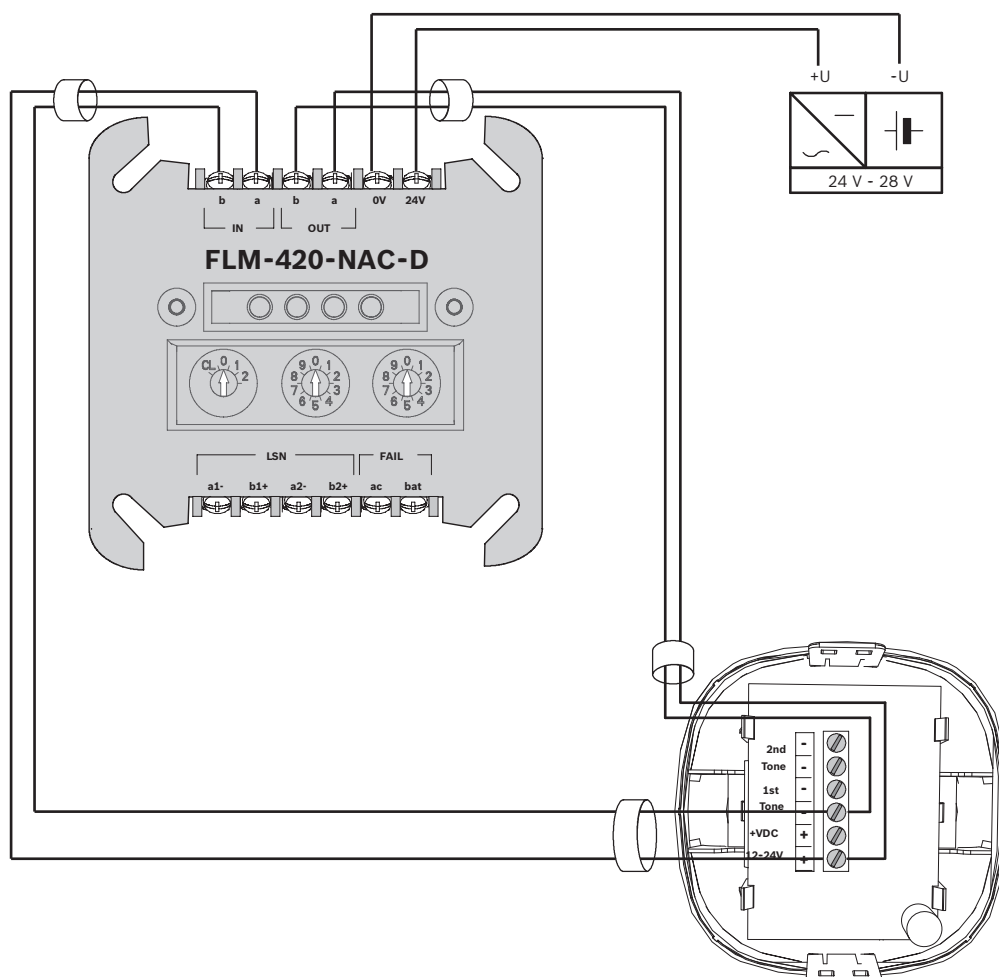


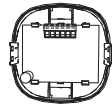


FNM-320V-A / -B

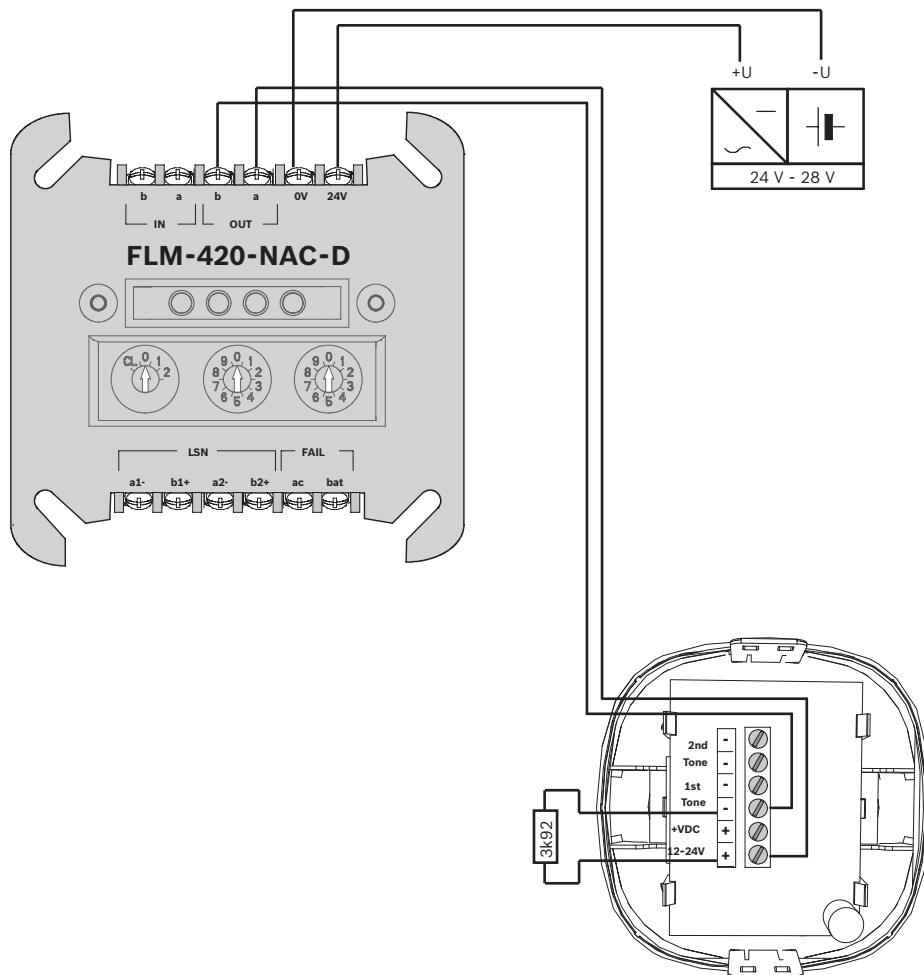
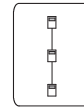


Vds 2489



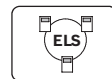


FNM-320V-A / -B

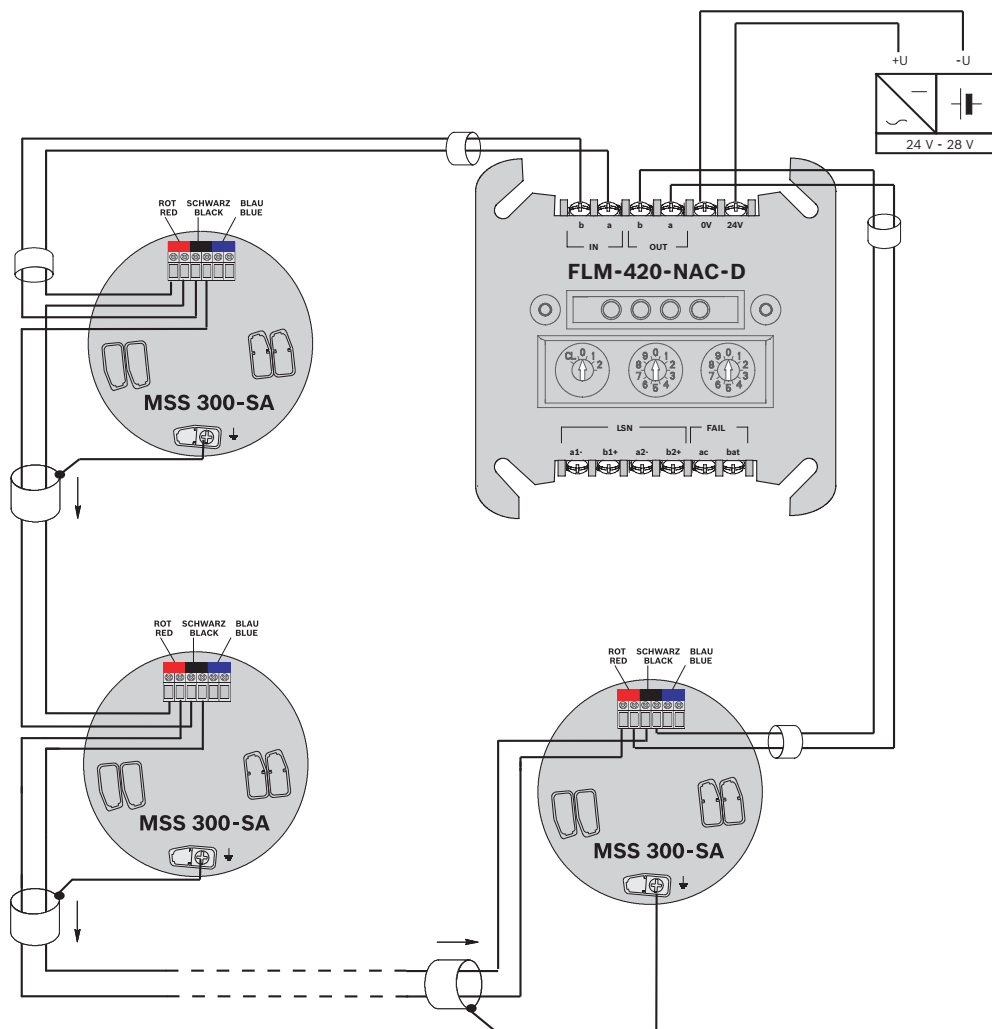




MSS 300-SA

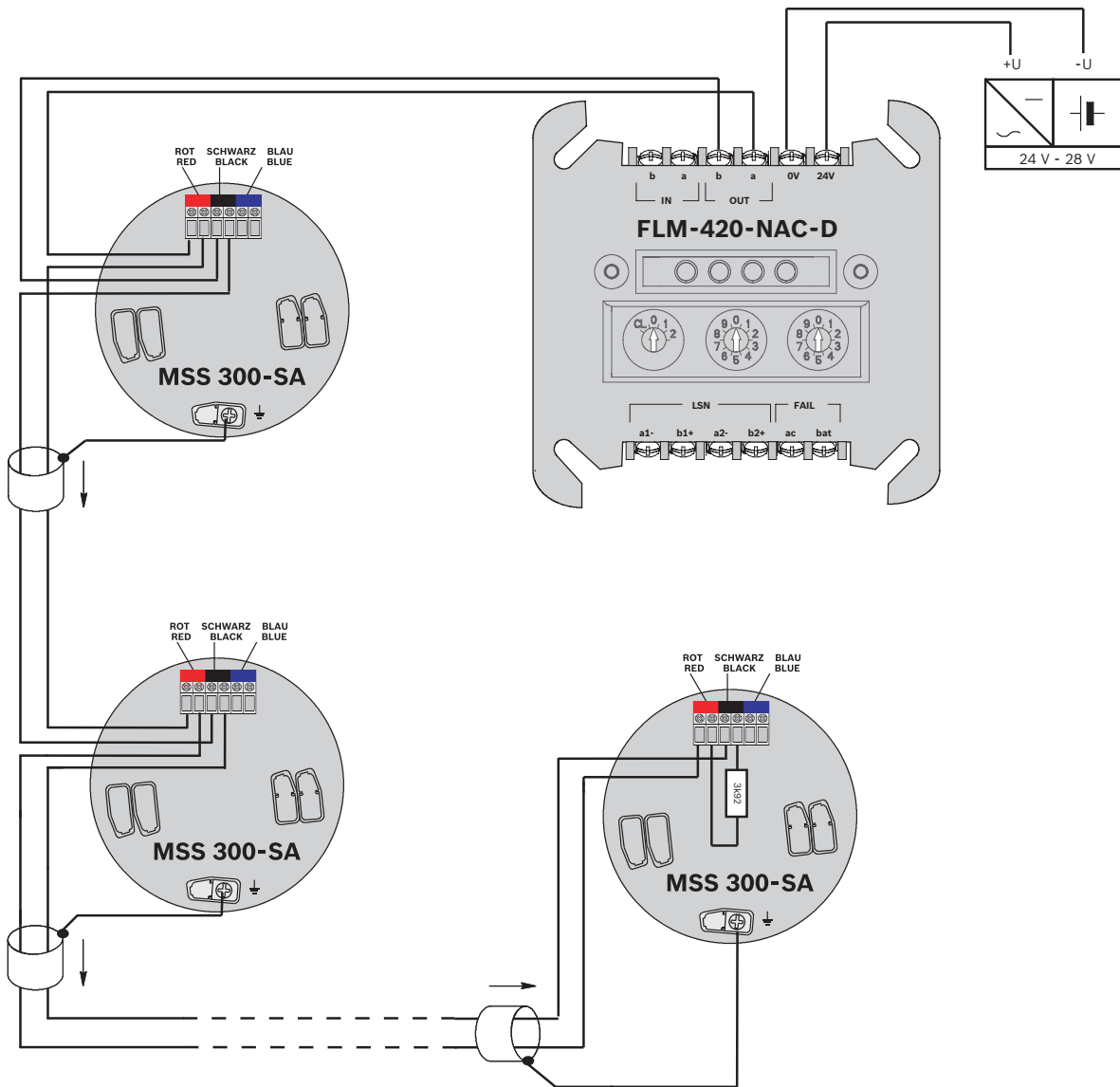
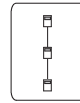


VdS 2489





MSS 300-SA

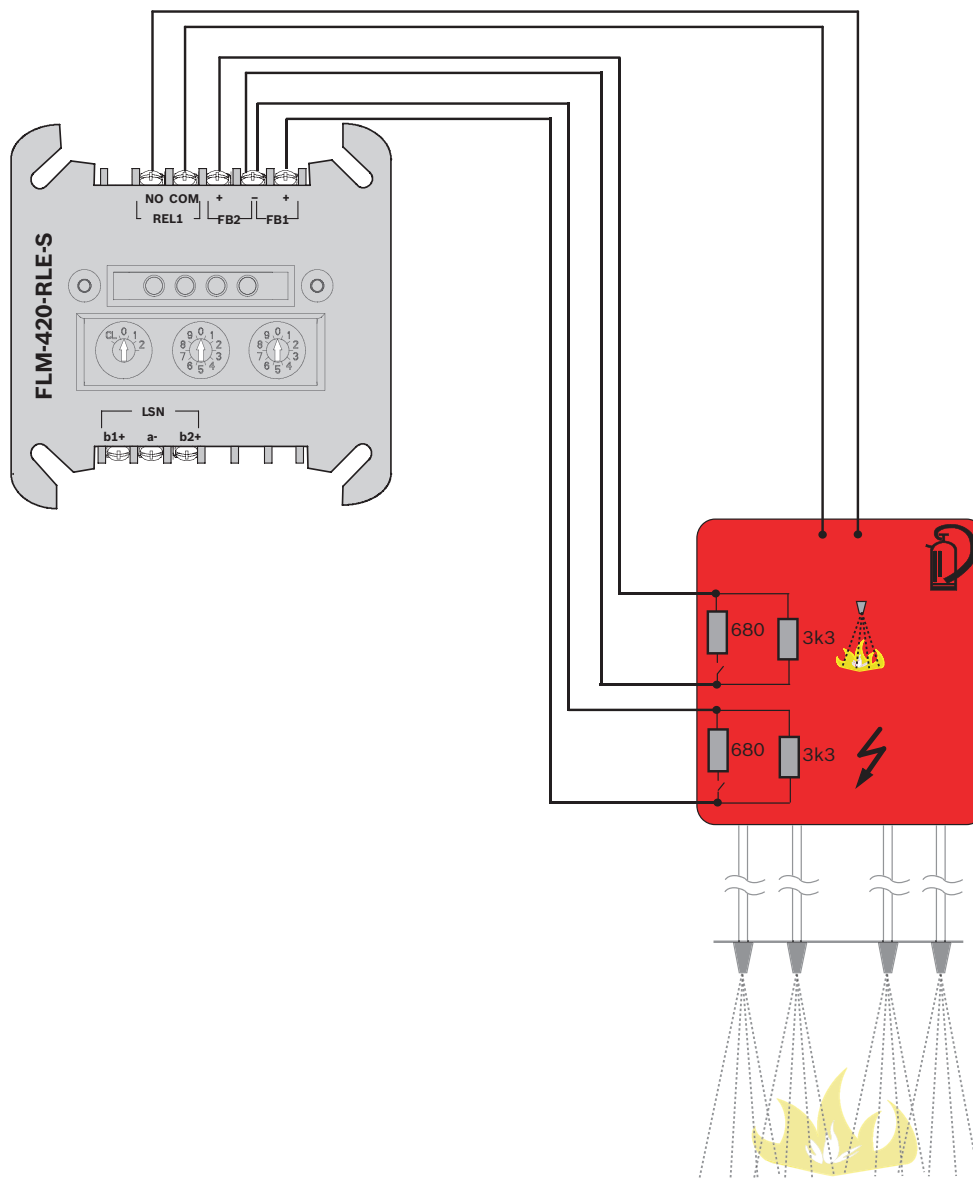


3.4.3

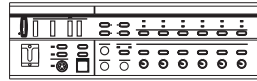
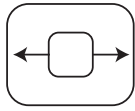
FLM-420-RLE-S



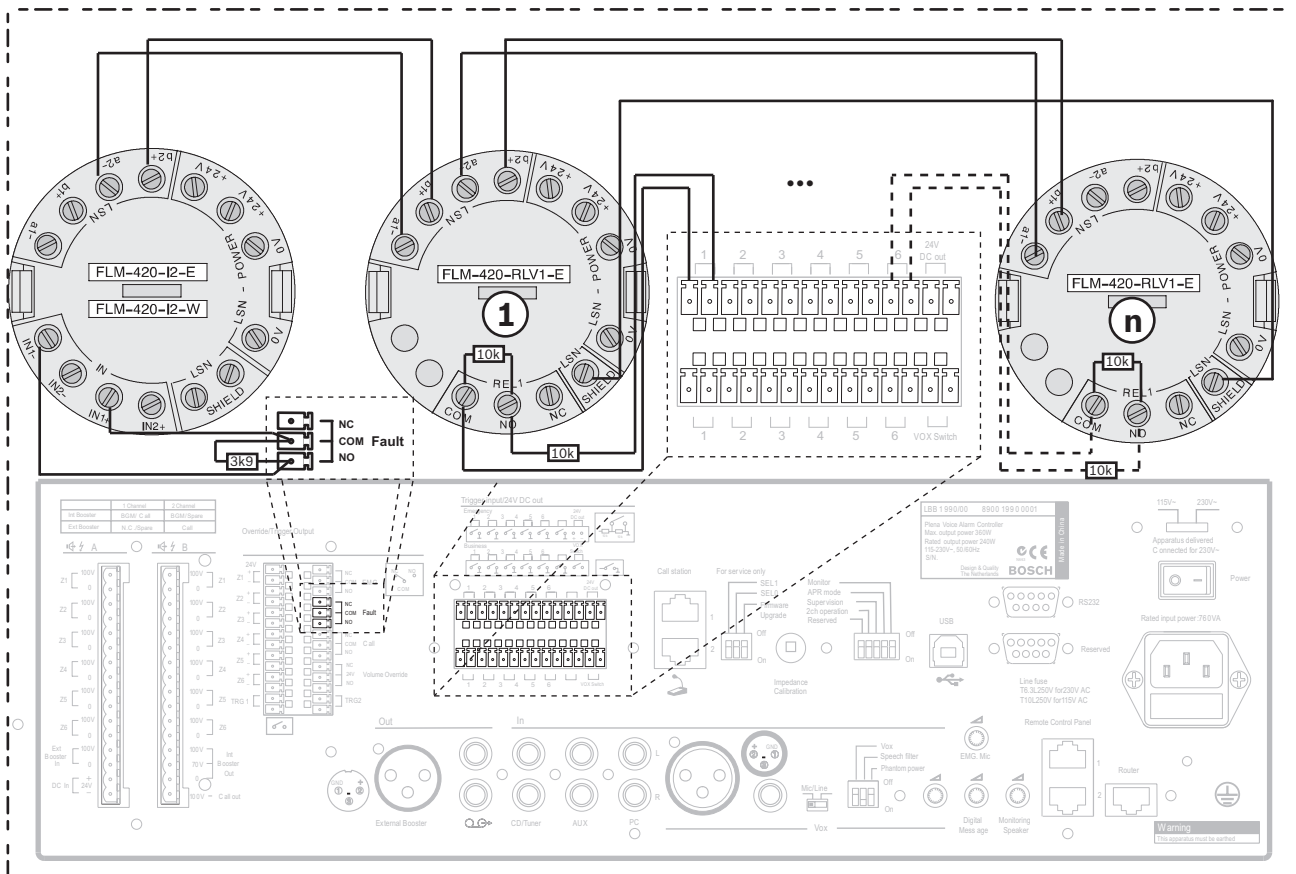
VdS 2496:2005-09



### 3.4.4 FLM-420-RLV1-E

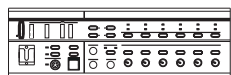
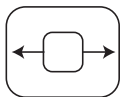


Plena

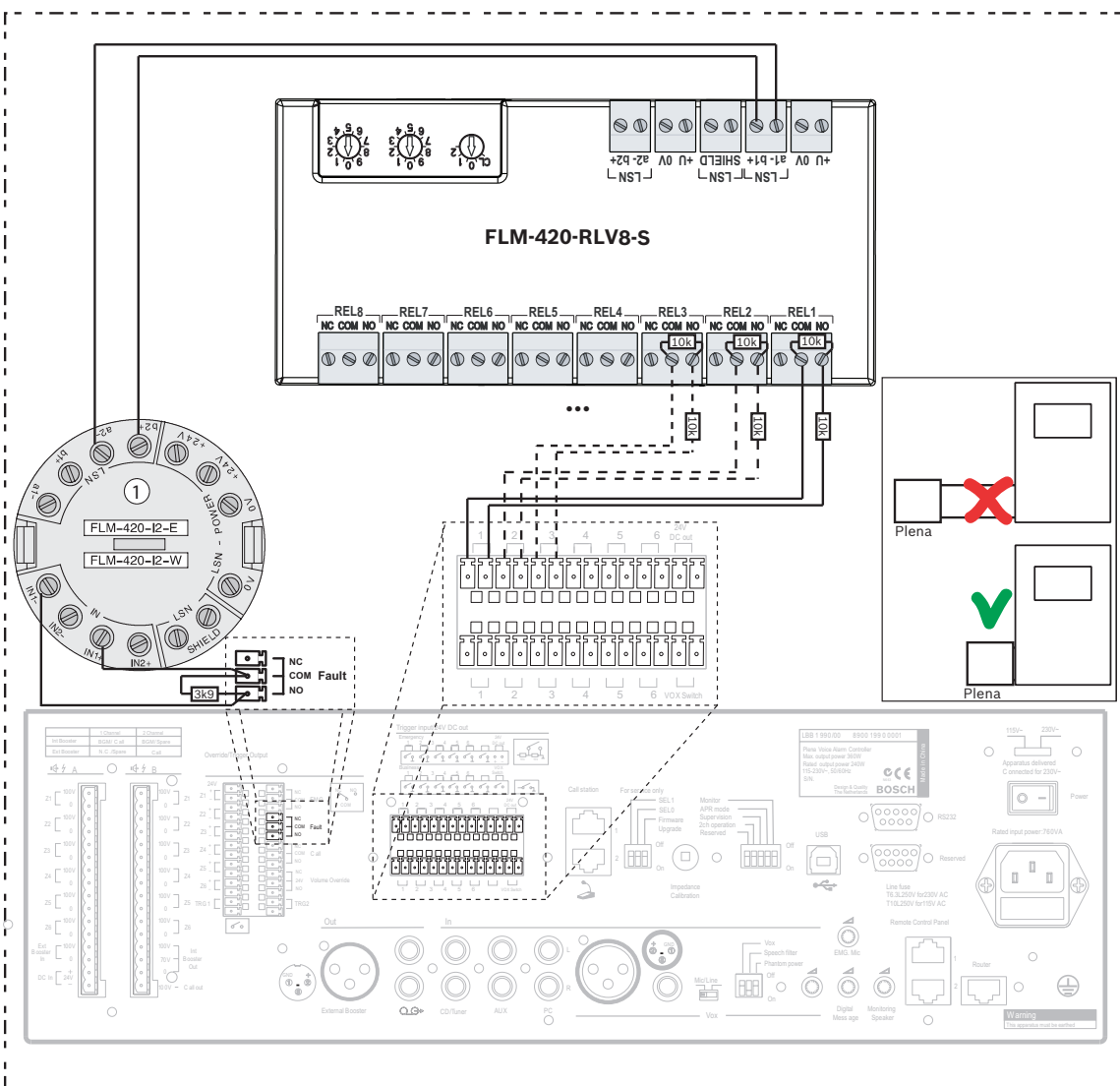
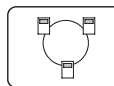




### 3.4.5 FLM-420-RLV8-S



Plena



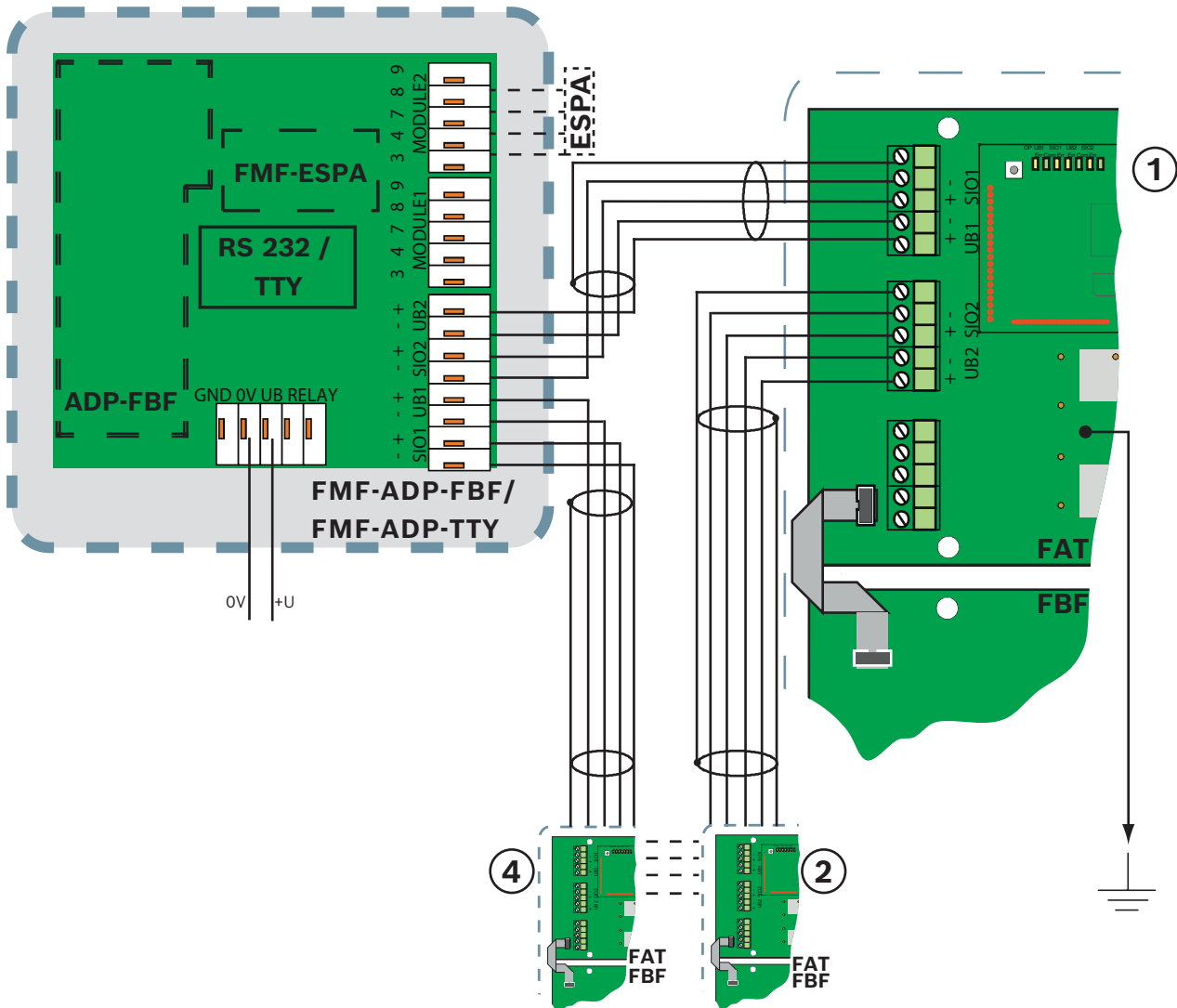
### 3.4.6 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

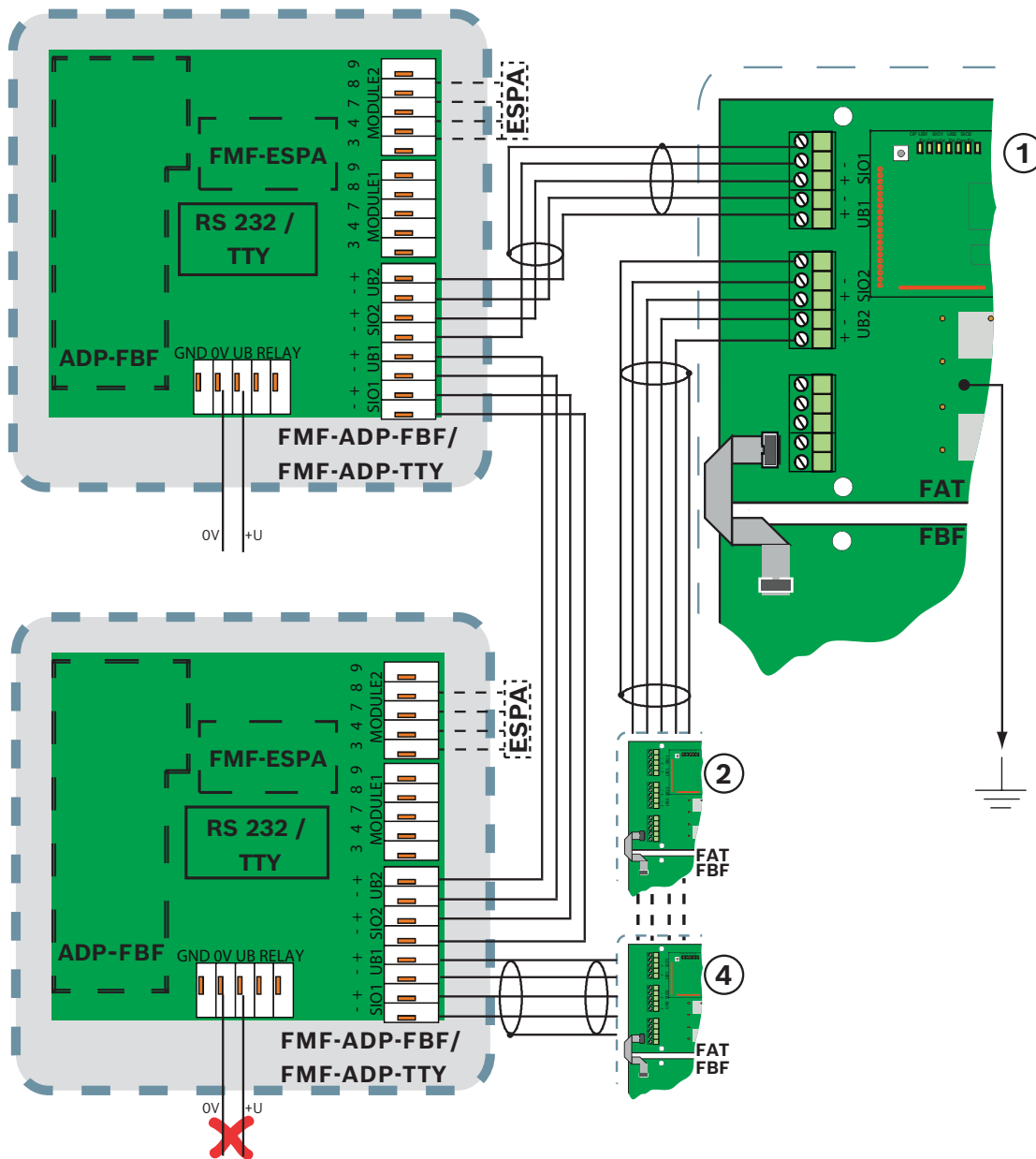
ELS Vds 2489





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

ELS Vds 2489



## 3.5

## EOL

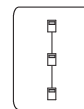
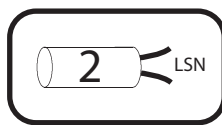


*LSN 0300 A, pagina 159*

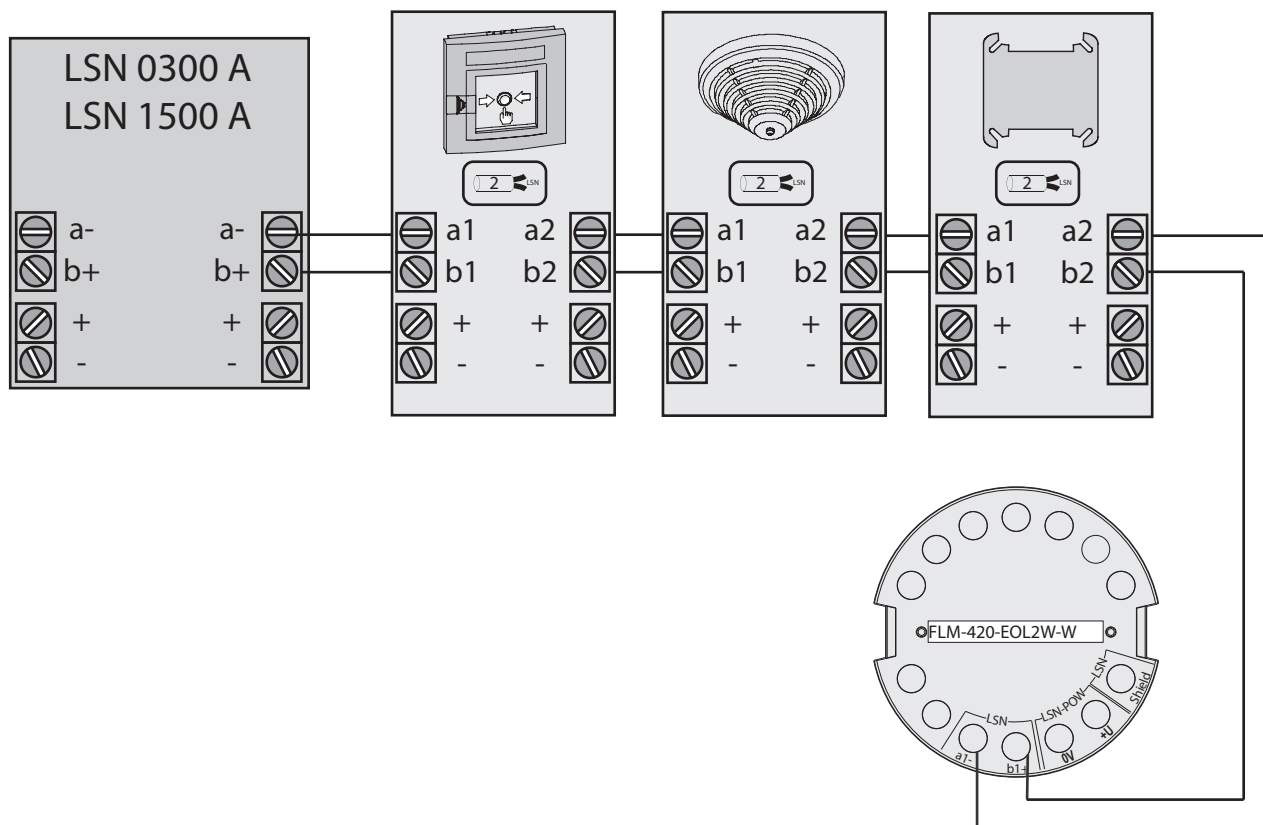
*FLM-420/4-CON-S/D, pagina 201*

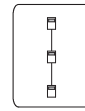
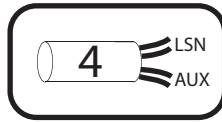
3.5.1

LSN 0300 A

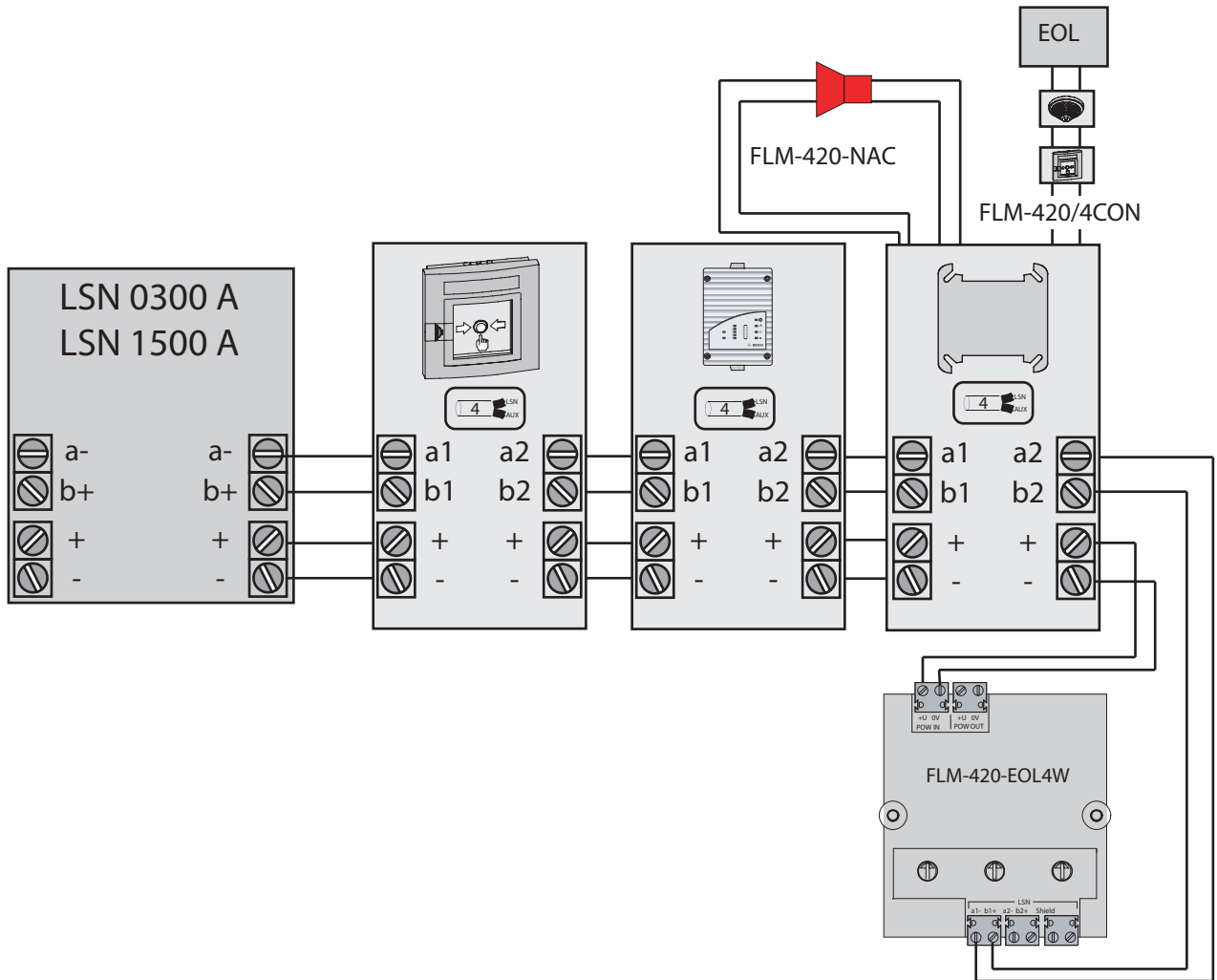


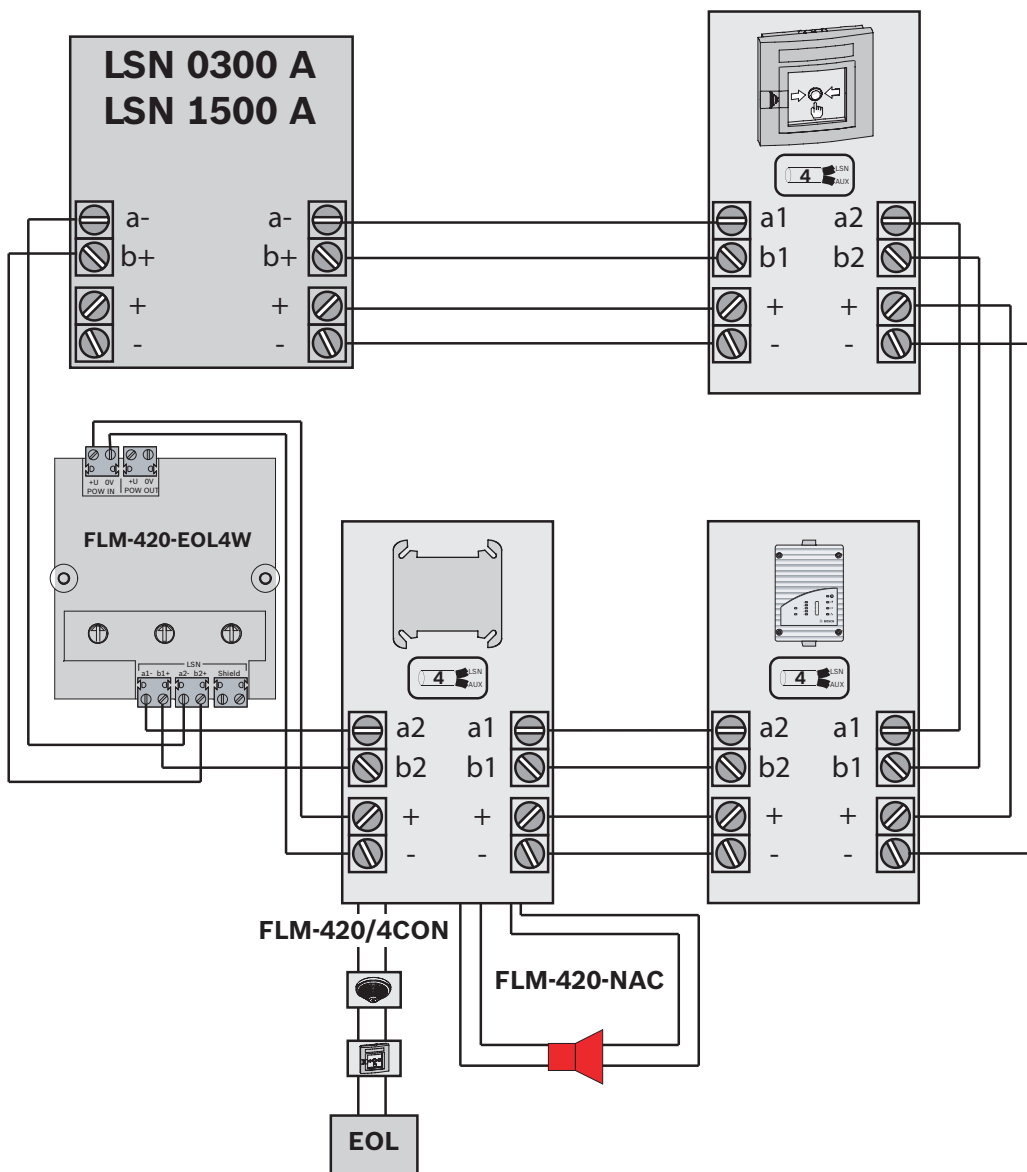
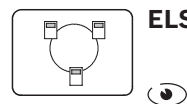
ELS VdS 2489





ELS VdS 2489

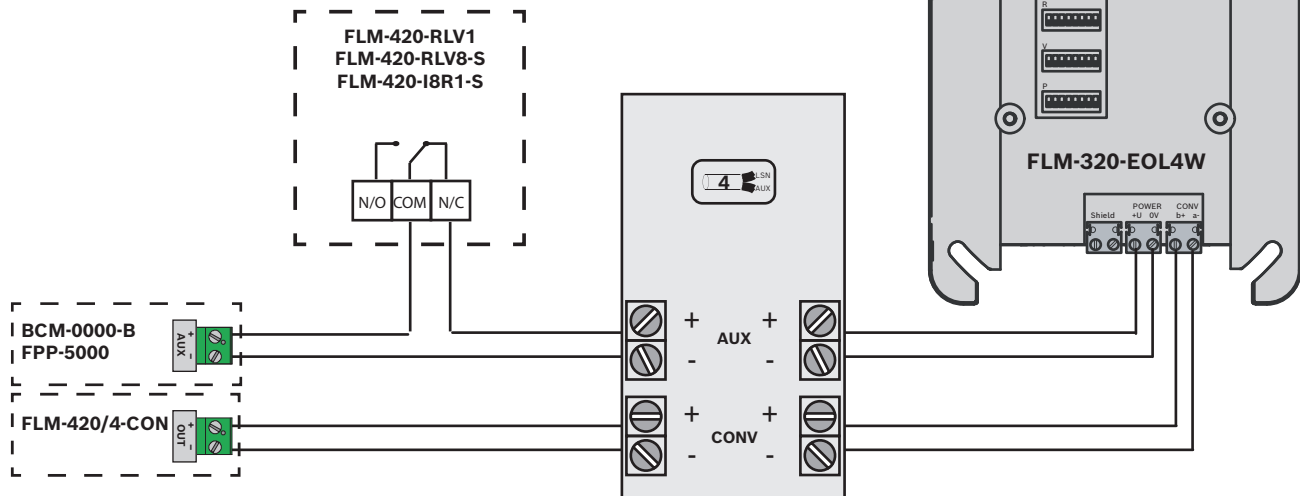




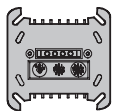
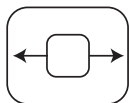


Reset action

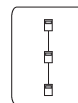
ELS VdS 2489



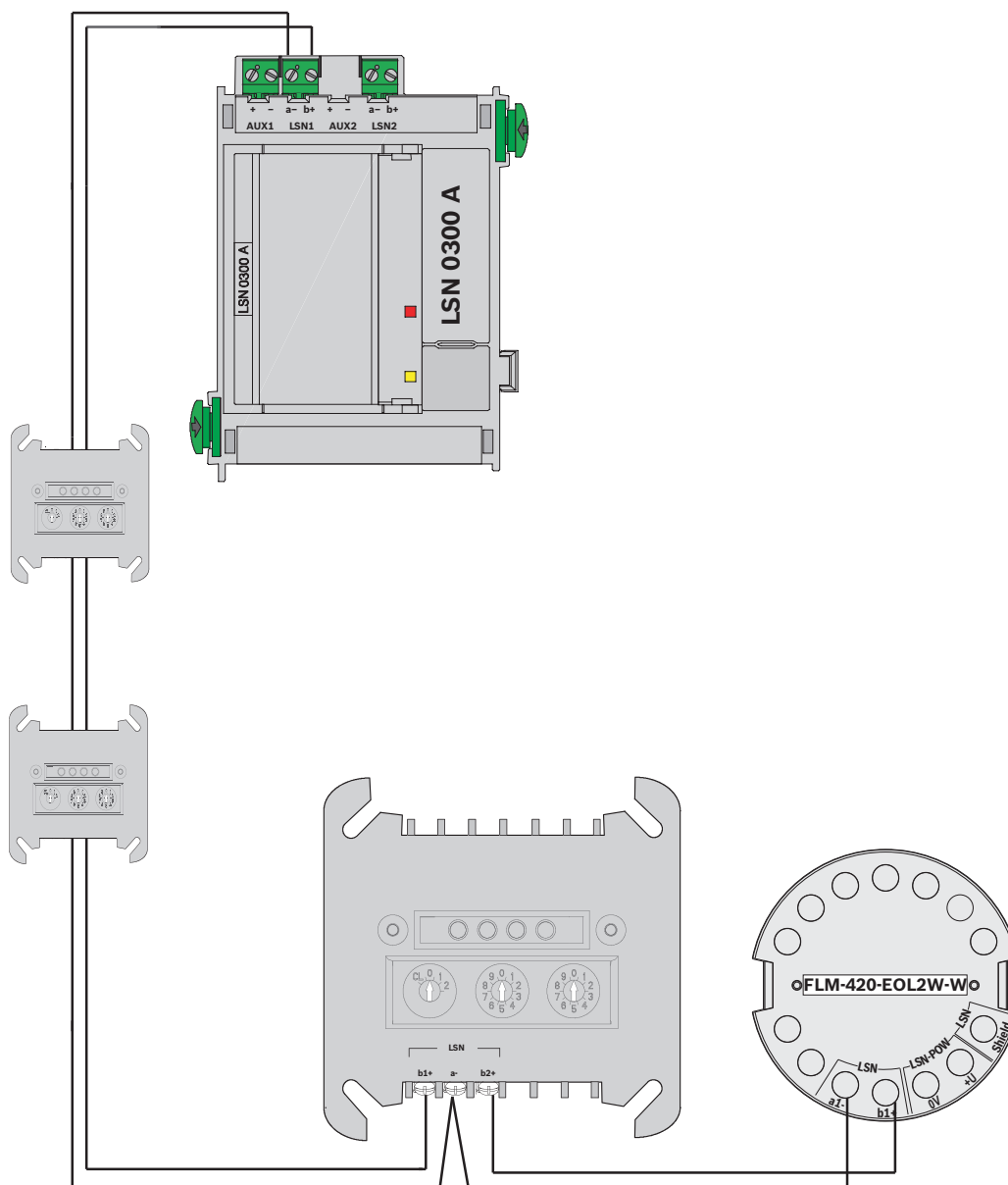


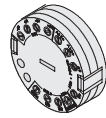
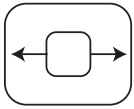


FLM-420-I2-D  
 FLM-420-O1I1-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D

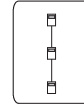


ELS VdS 2489

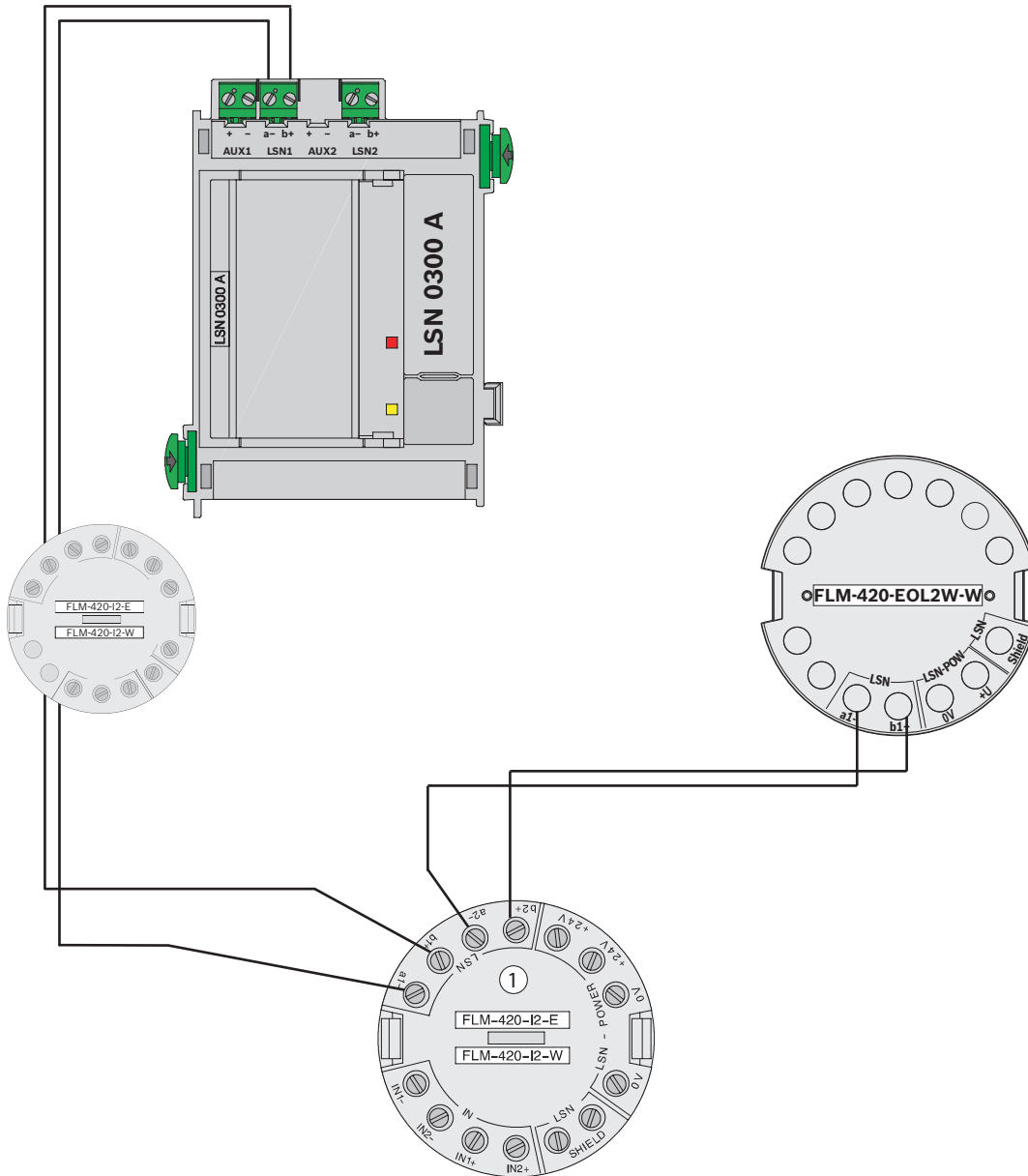


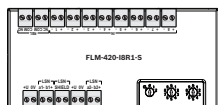
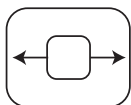


FLM-420-12-E/W

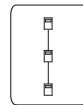


ELS VdS 2489

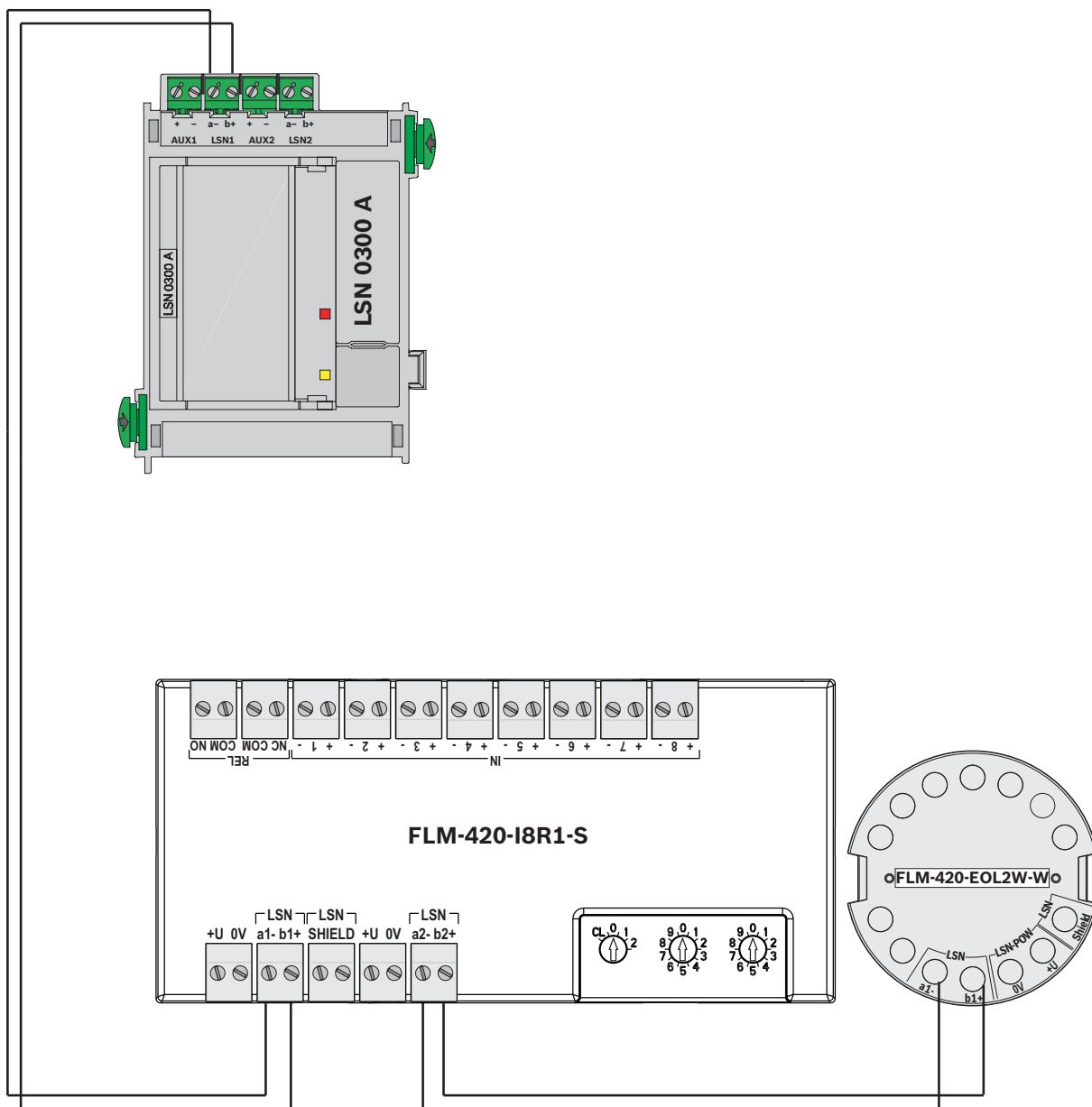


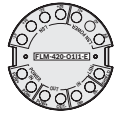
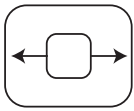


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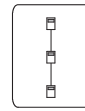


**ELS VdS 2489**

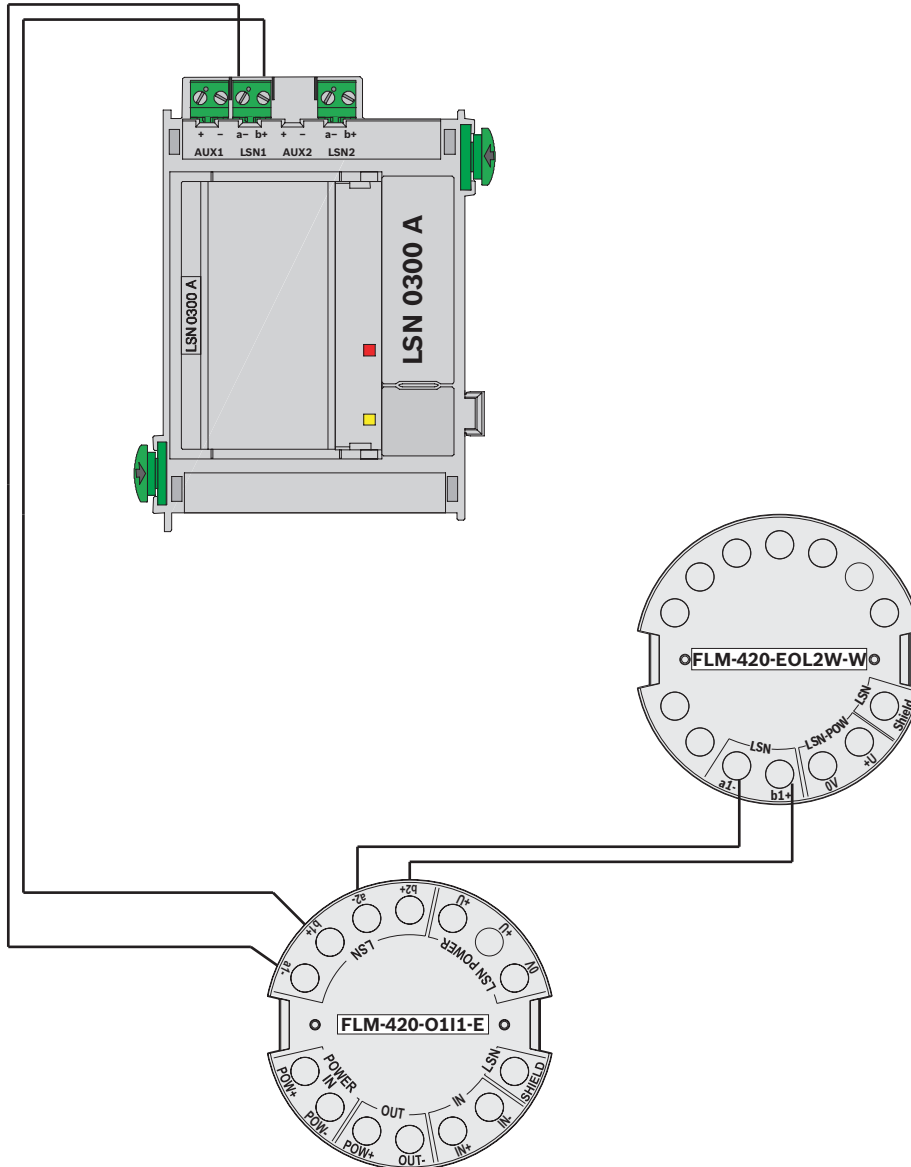


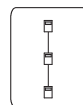
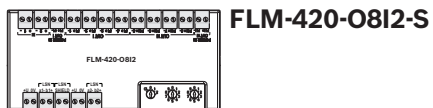
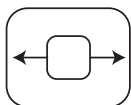


FLM-420-O111-E

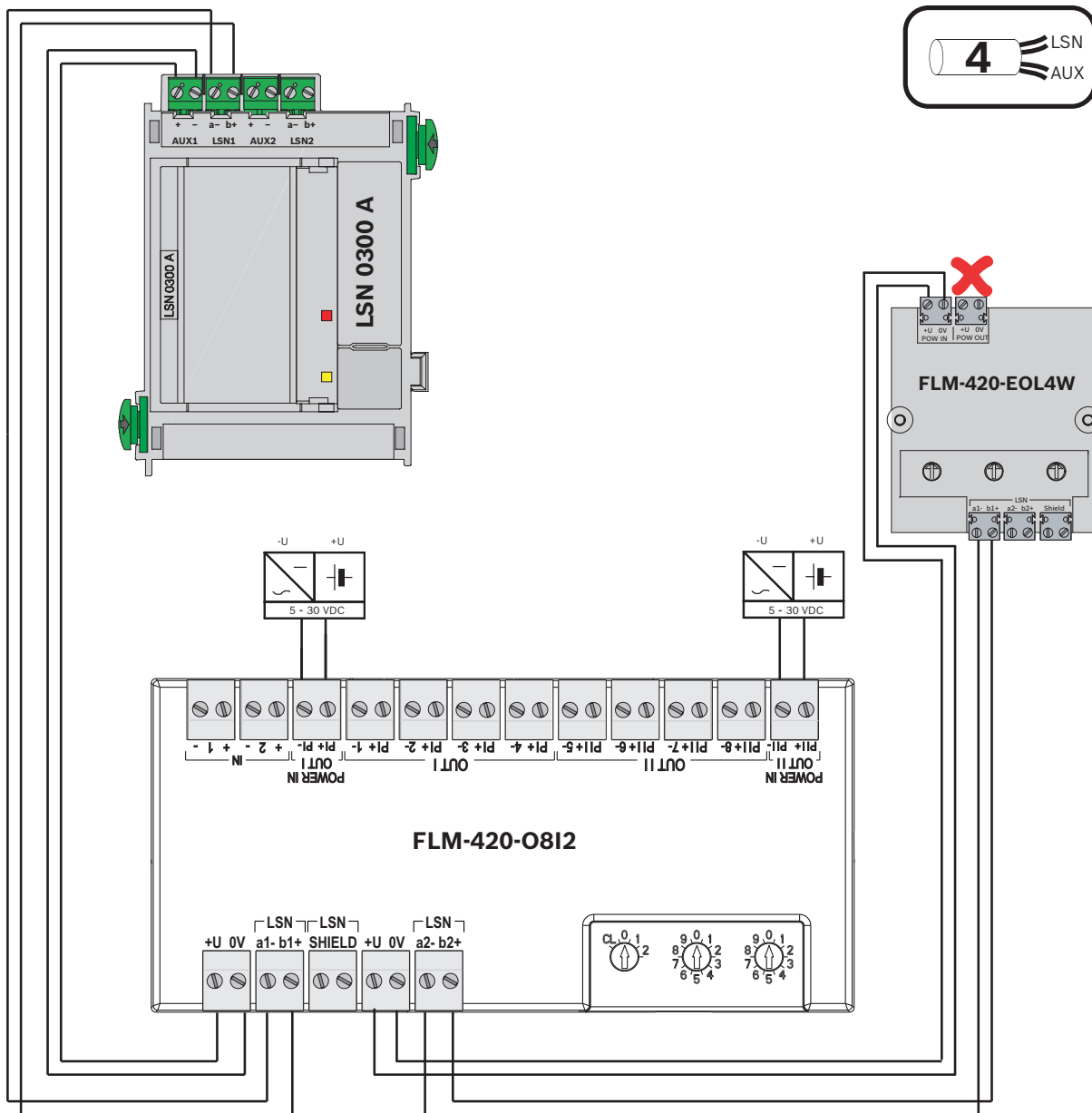


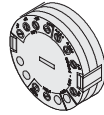
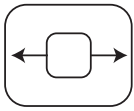
ELS VdS 2489



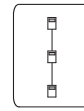


ELS Vds 2489

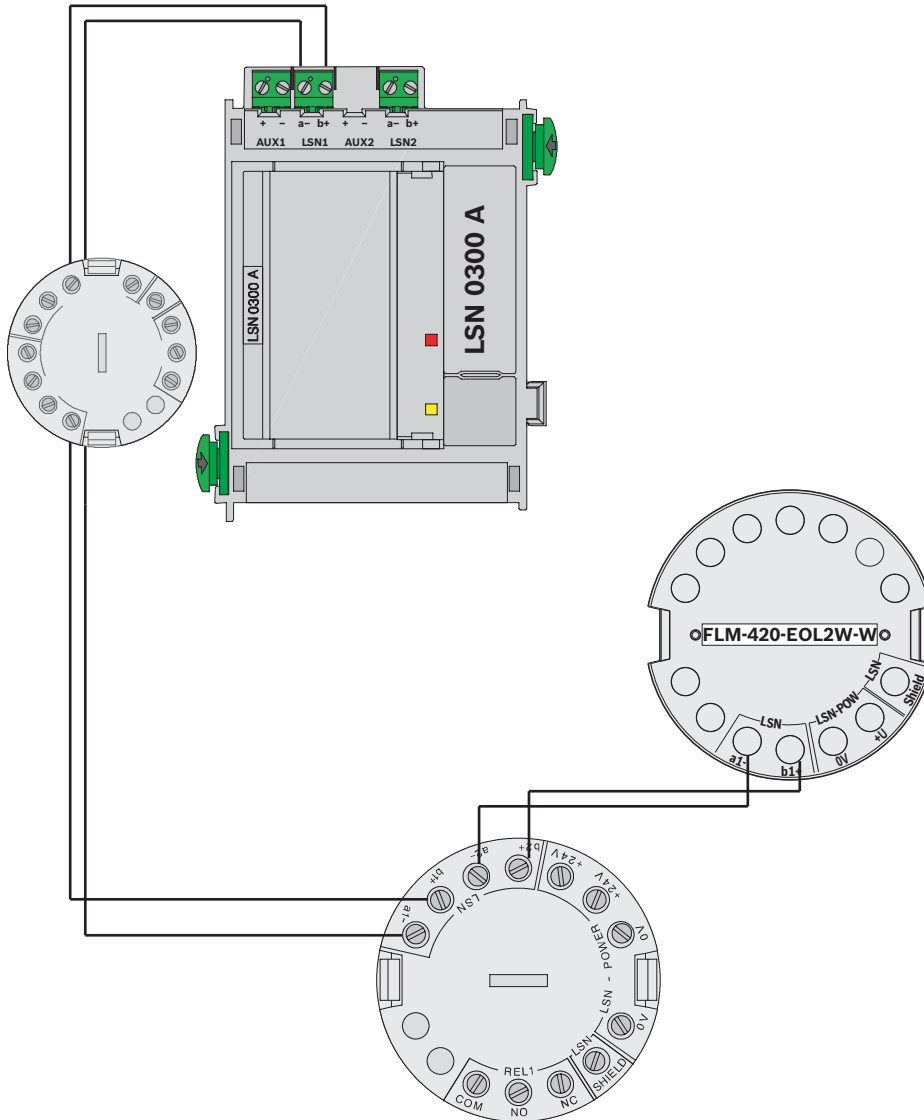


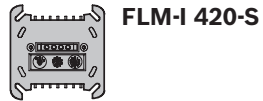
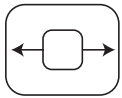


**FLM-420-I2-E/-W**  
**FLM-420-RLV1-E**

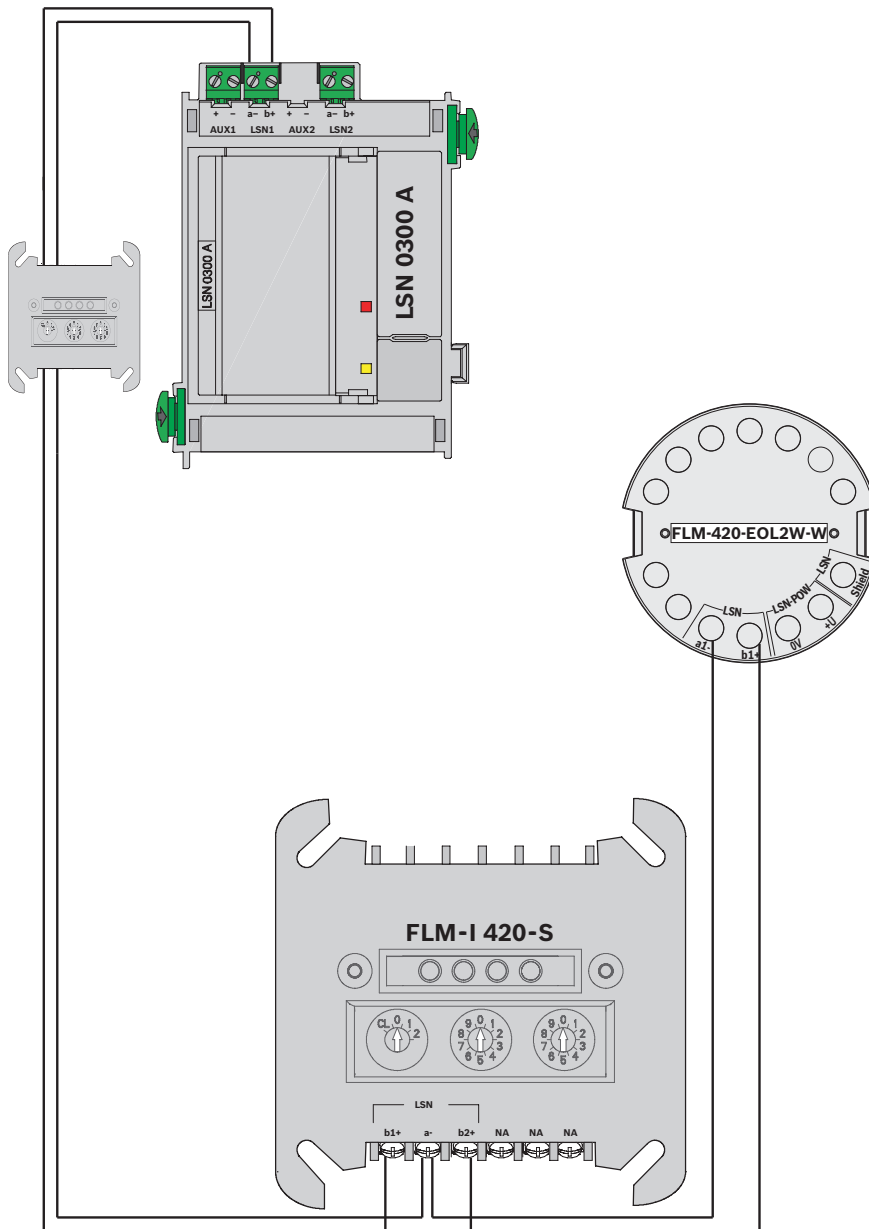


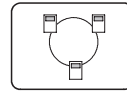
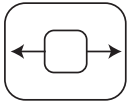
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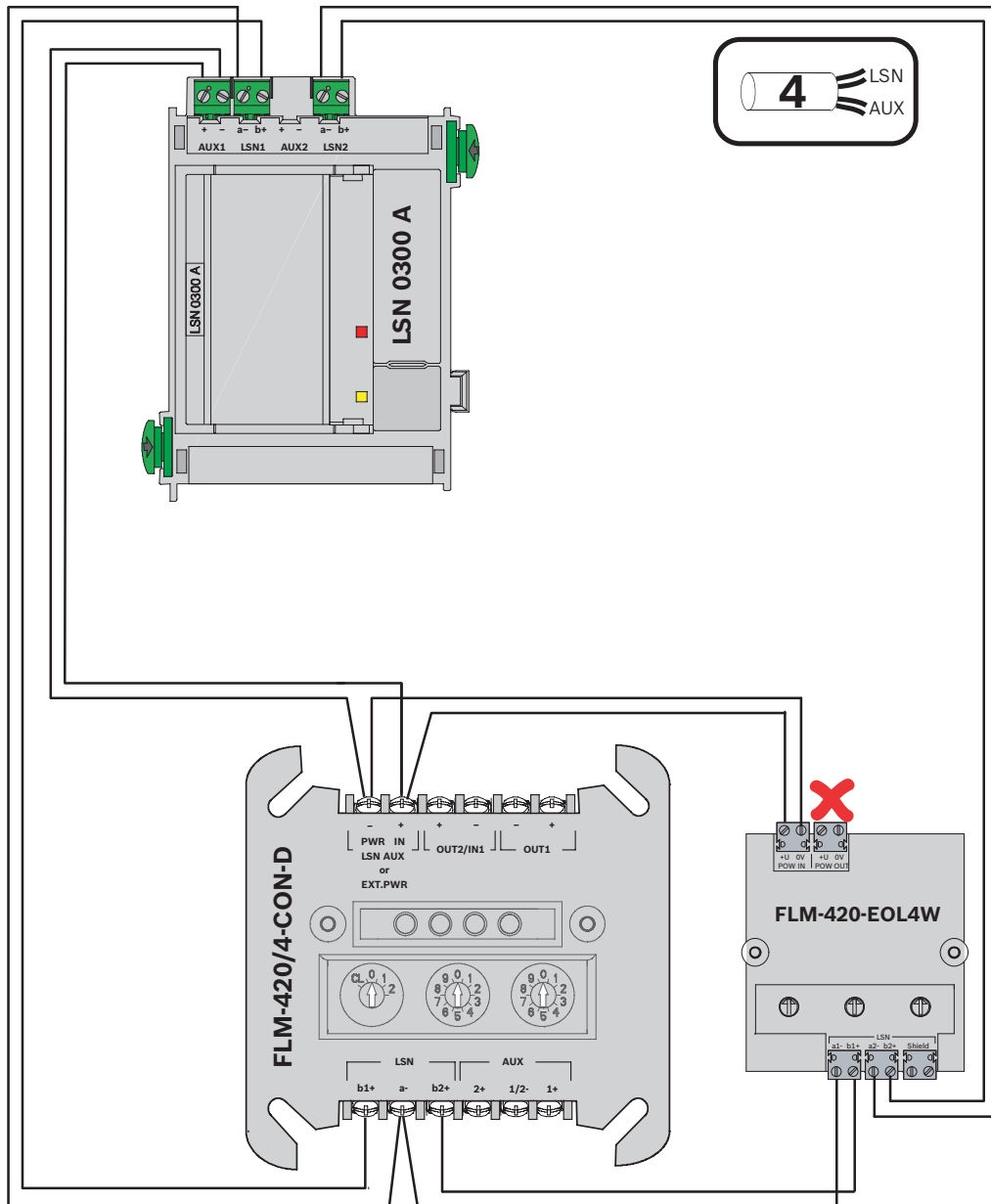


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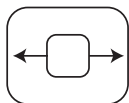




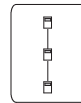
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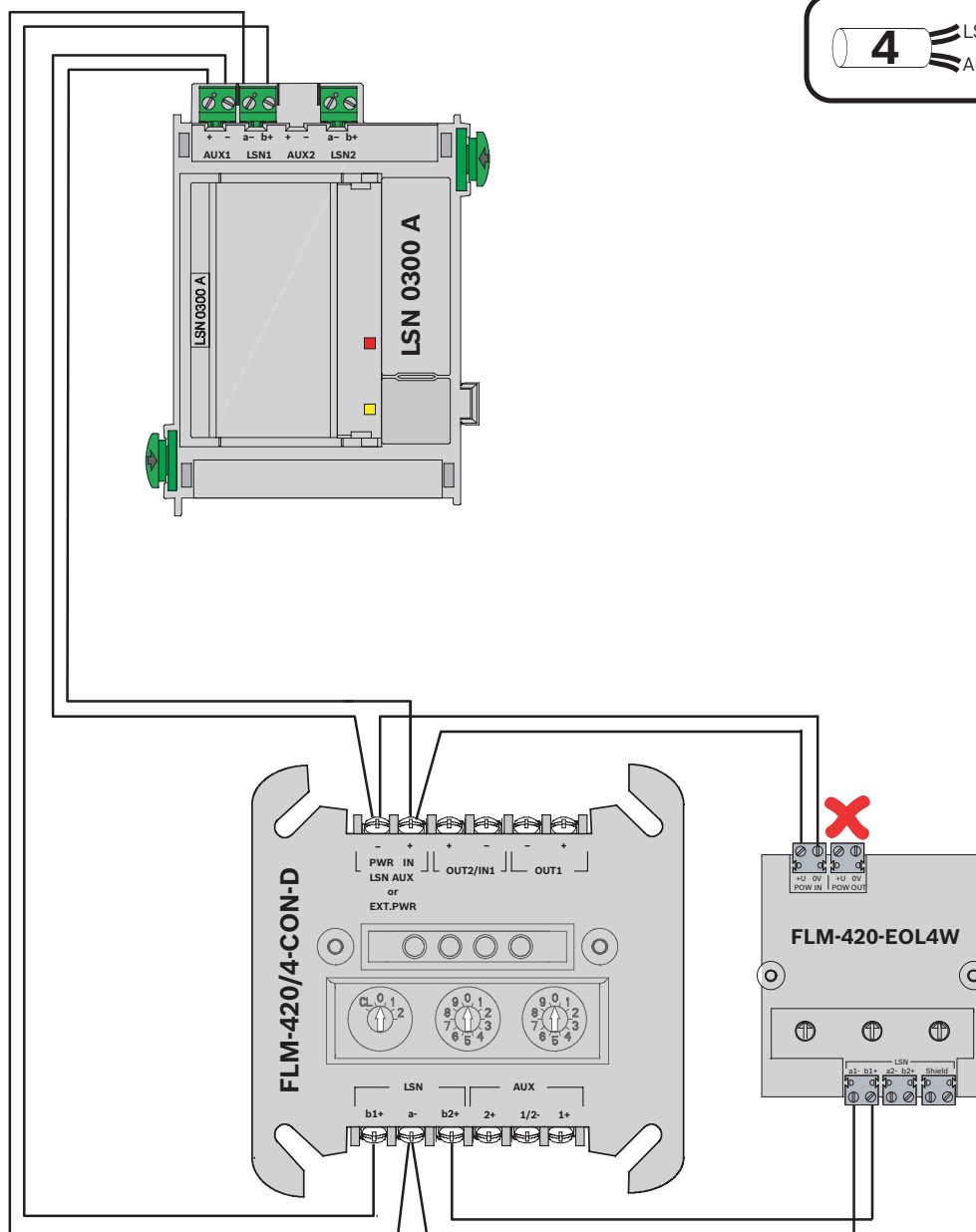
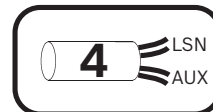


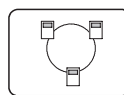
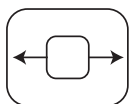


**FLM-420/  
4-CON-D**

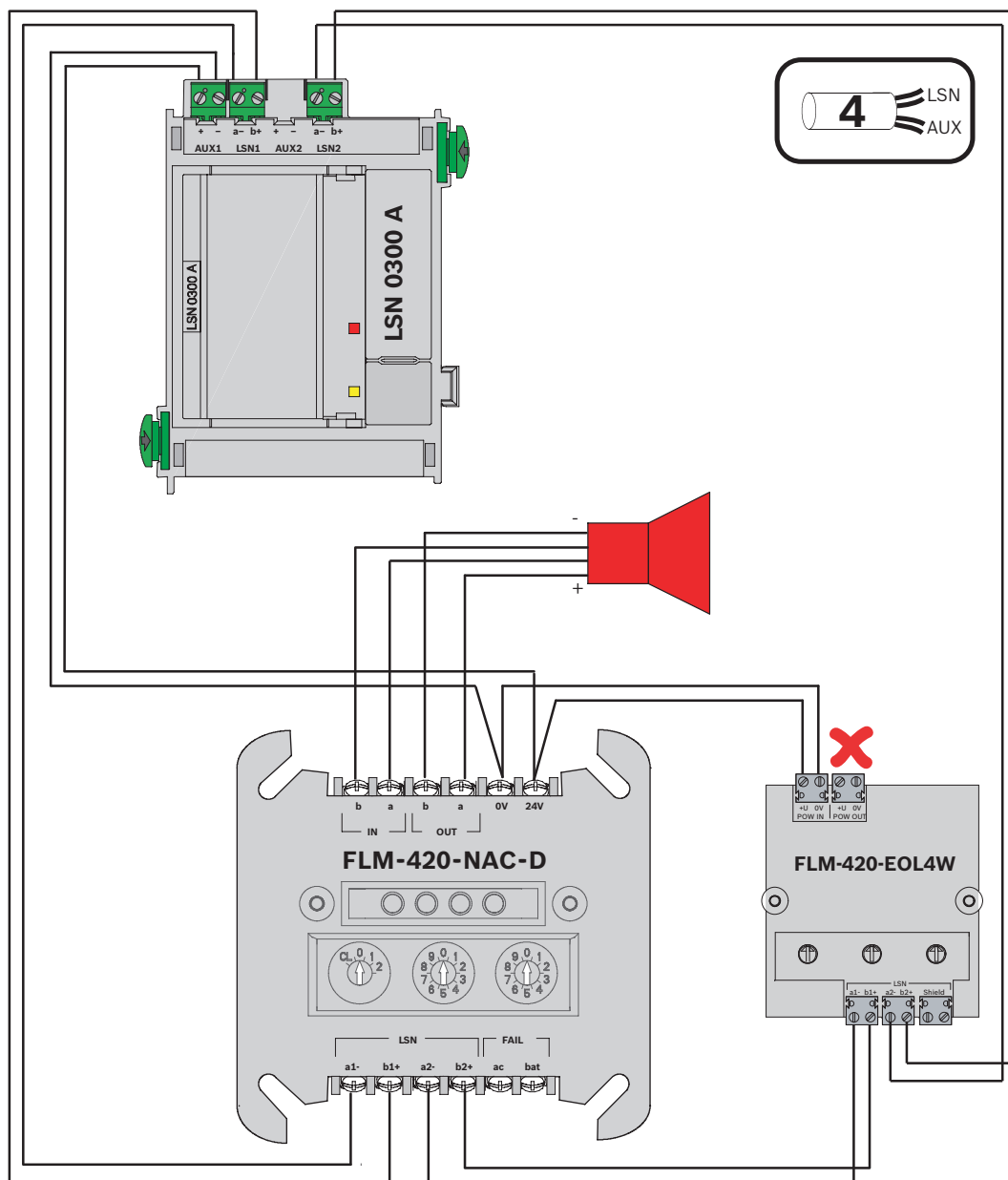


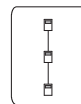
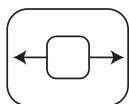
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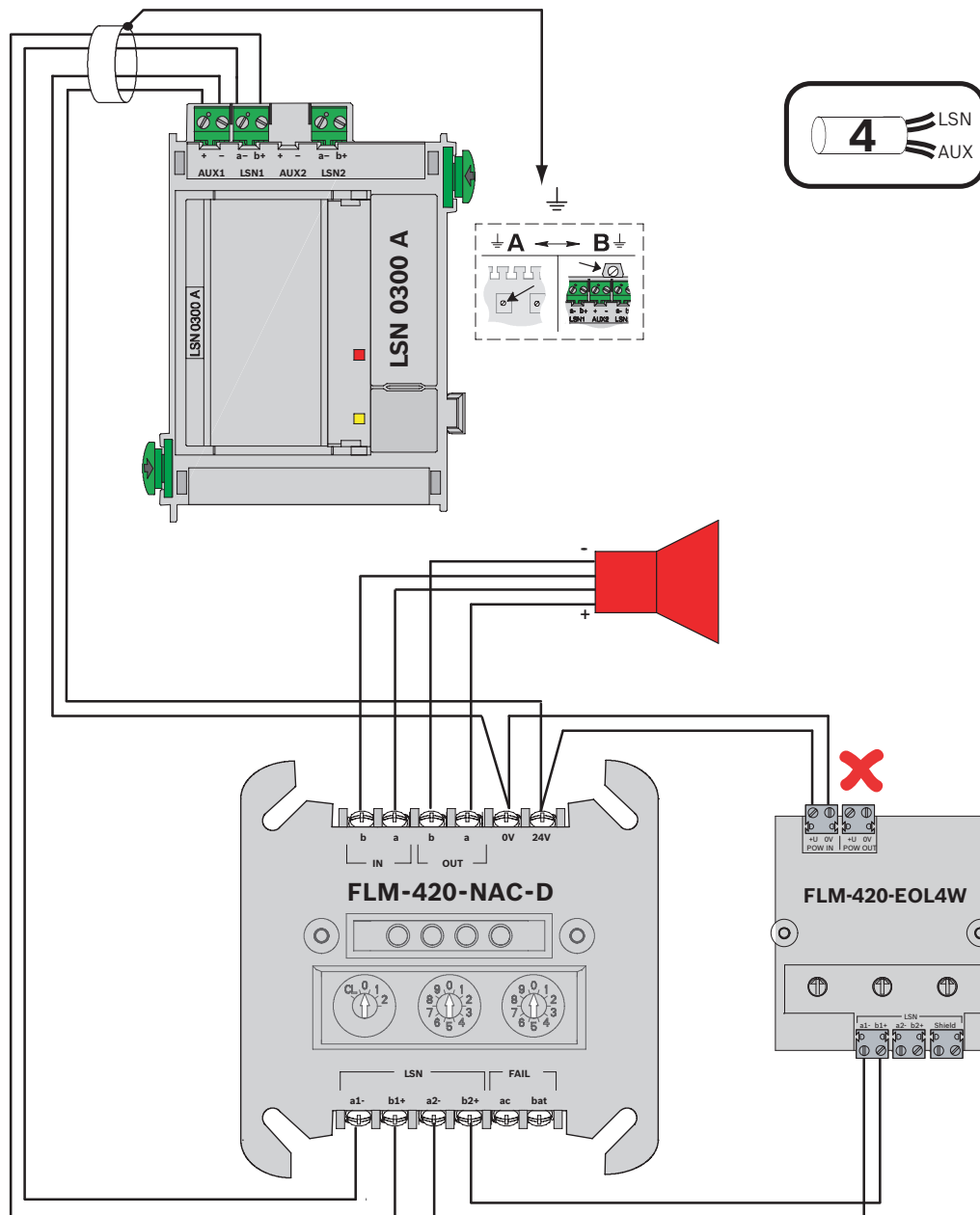


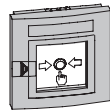
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EN 54-2**



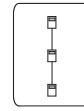


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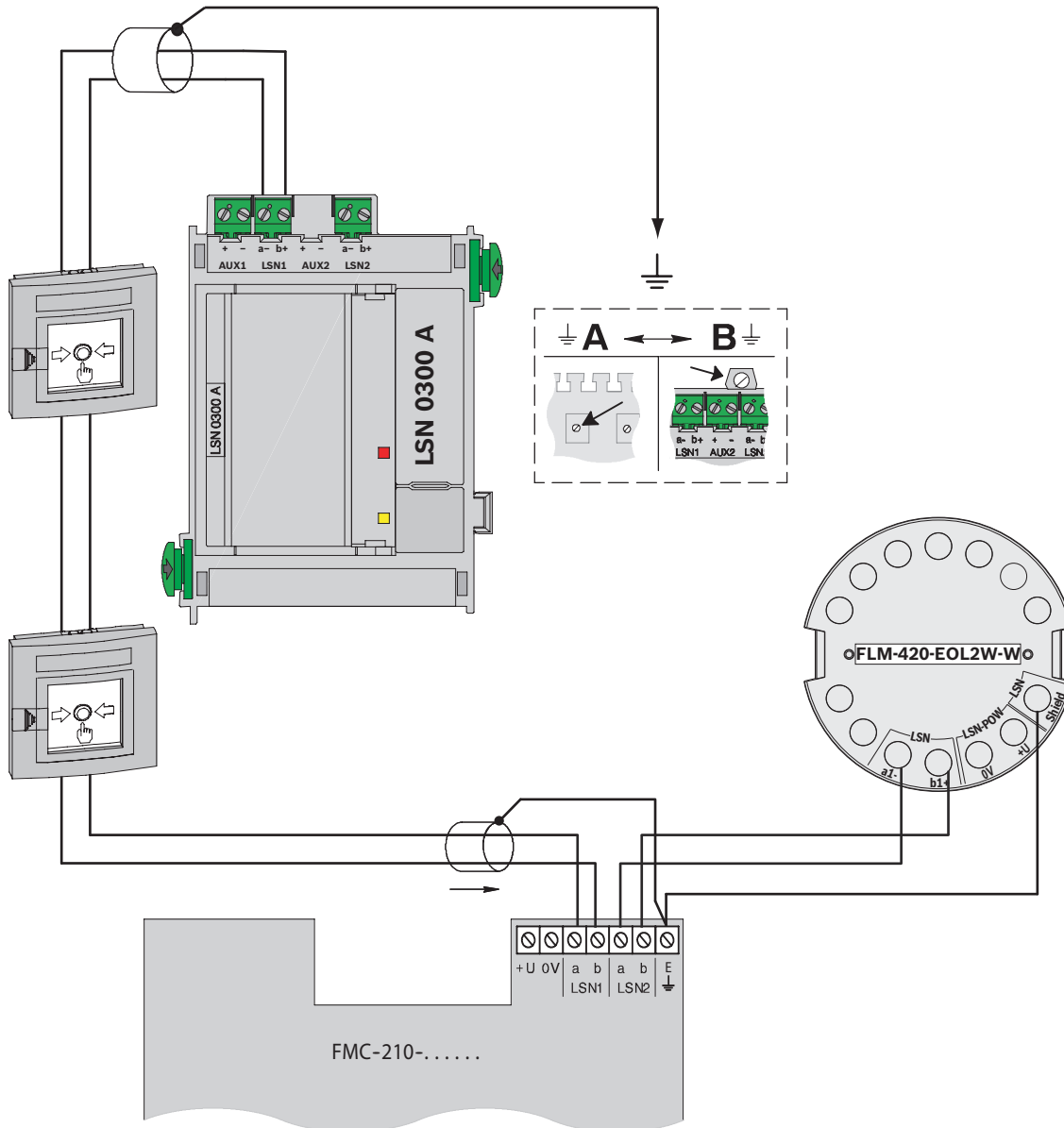


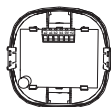


FMC-210-...

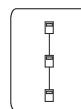


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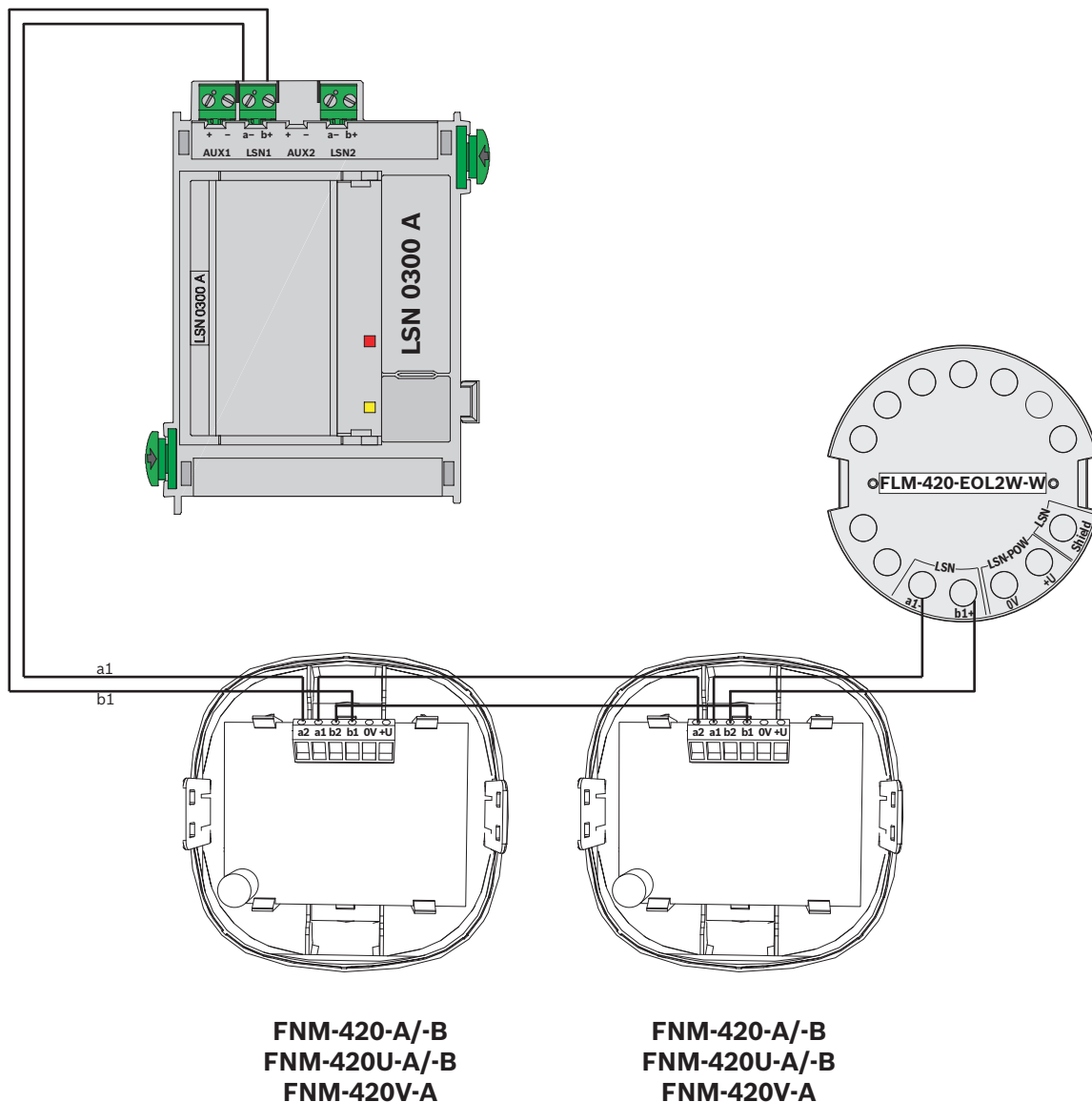




**FNM-420-A /-B**  
**FNM-420U-A /-B**  
**FNM-420V-A**



**ELS VdS 2489**

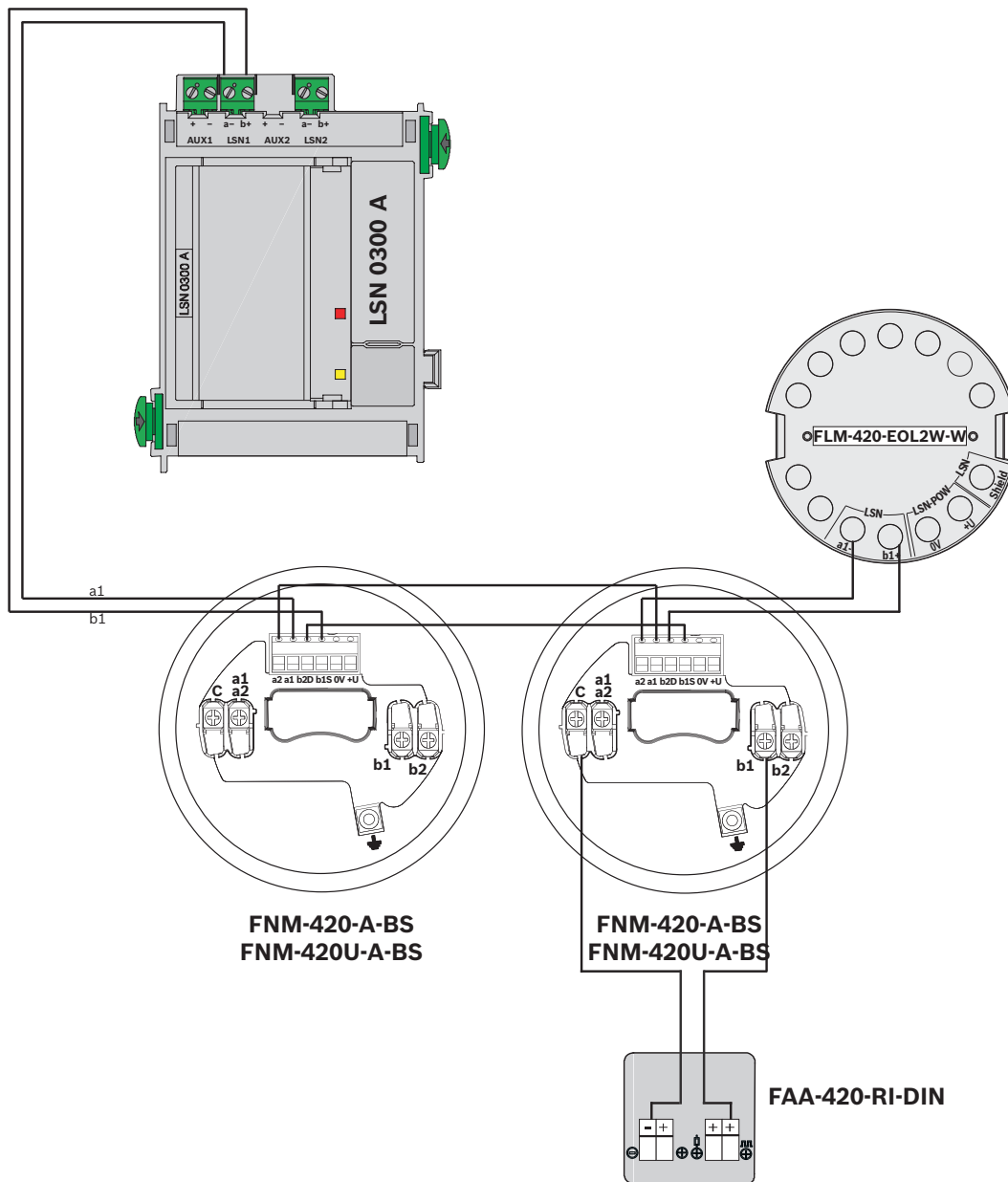




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**FNM-420U-A-BS**



**ELS Vds 2489**

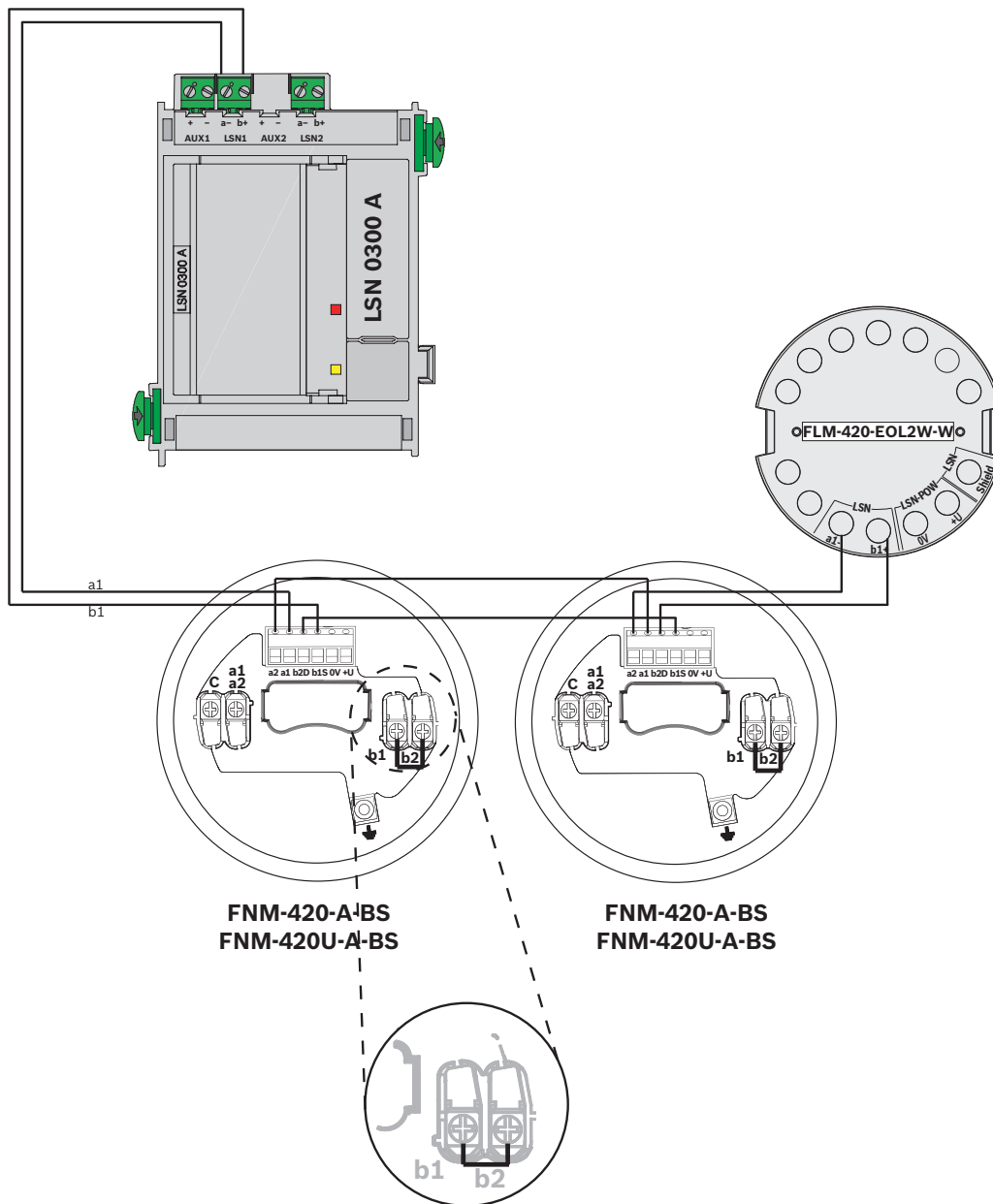


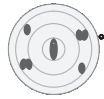


**FNM-420-A-BS**  
**FNM-420U-A-BS**



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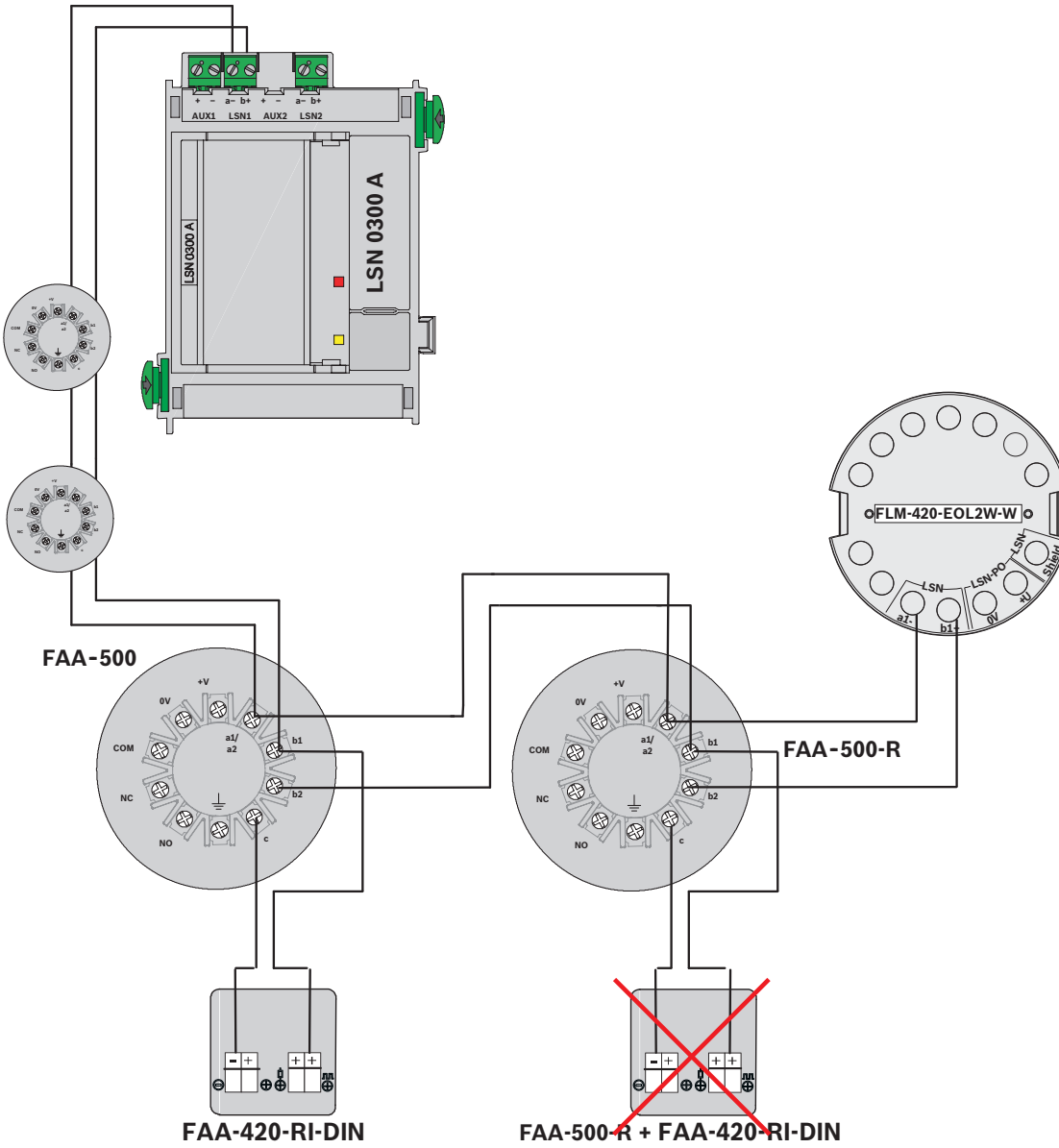




FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P



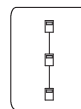
ELS Vds 2489



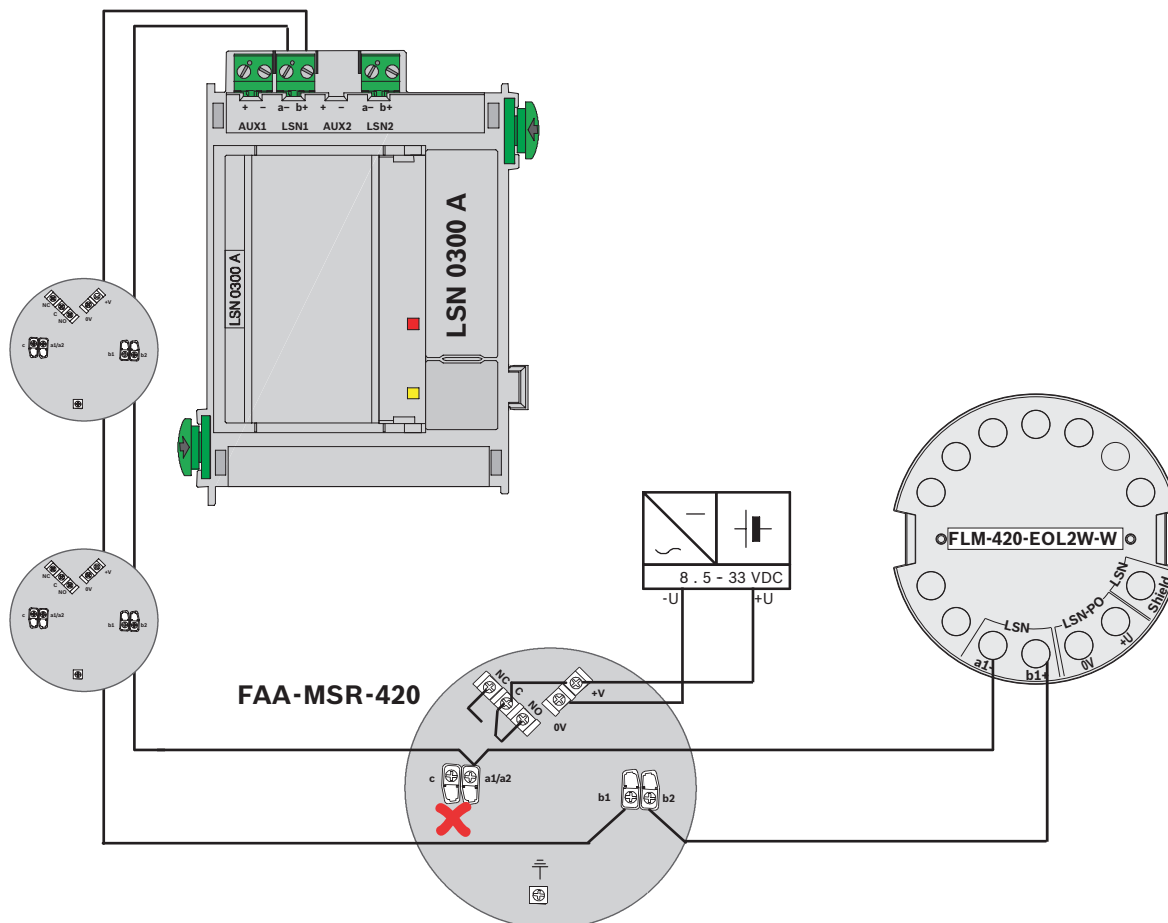




FAP-425-O/O-R  
 FAP-425-OT/OT-R  
 FAP-425-T-R  
 FAP-425-DO-R/DOT-R/-DOTC-R



ELS VdS 2489

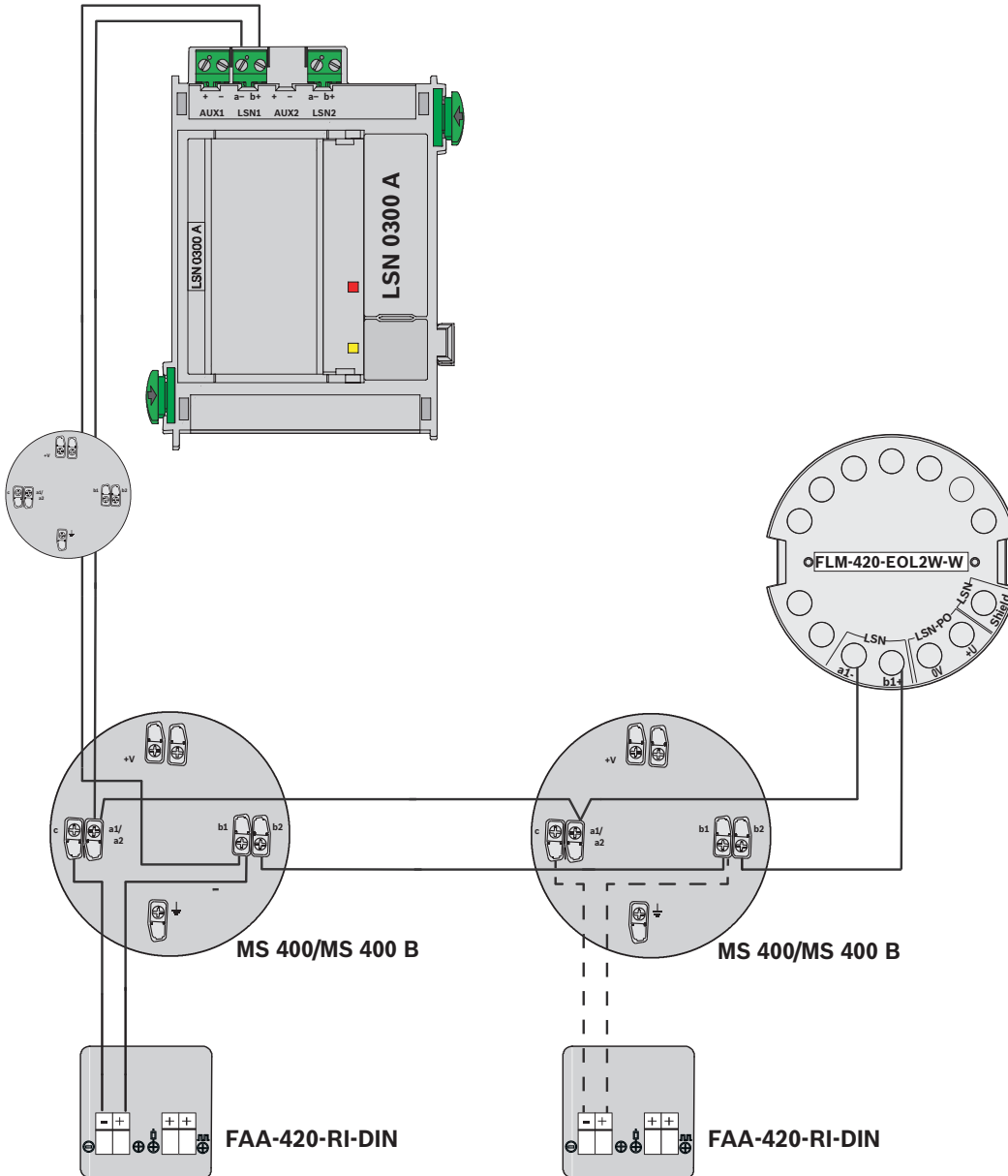


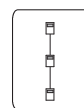
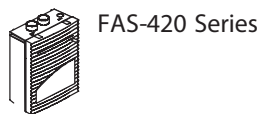


FAP-425-O/O-R/OT/OT-R/T-R  
 FAP-425-DO-R/DOT-R/DOTC-R  
 FCH-320-T320/-T320-R470/-T320-FSA  
 FCP-O320/O320-R470  
 FCP-OC320/OC320-R470  
 FCP-OT320/OT320-R470

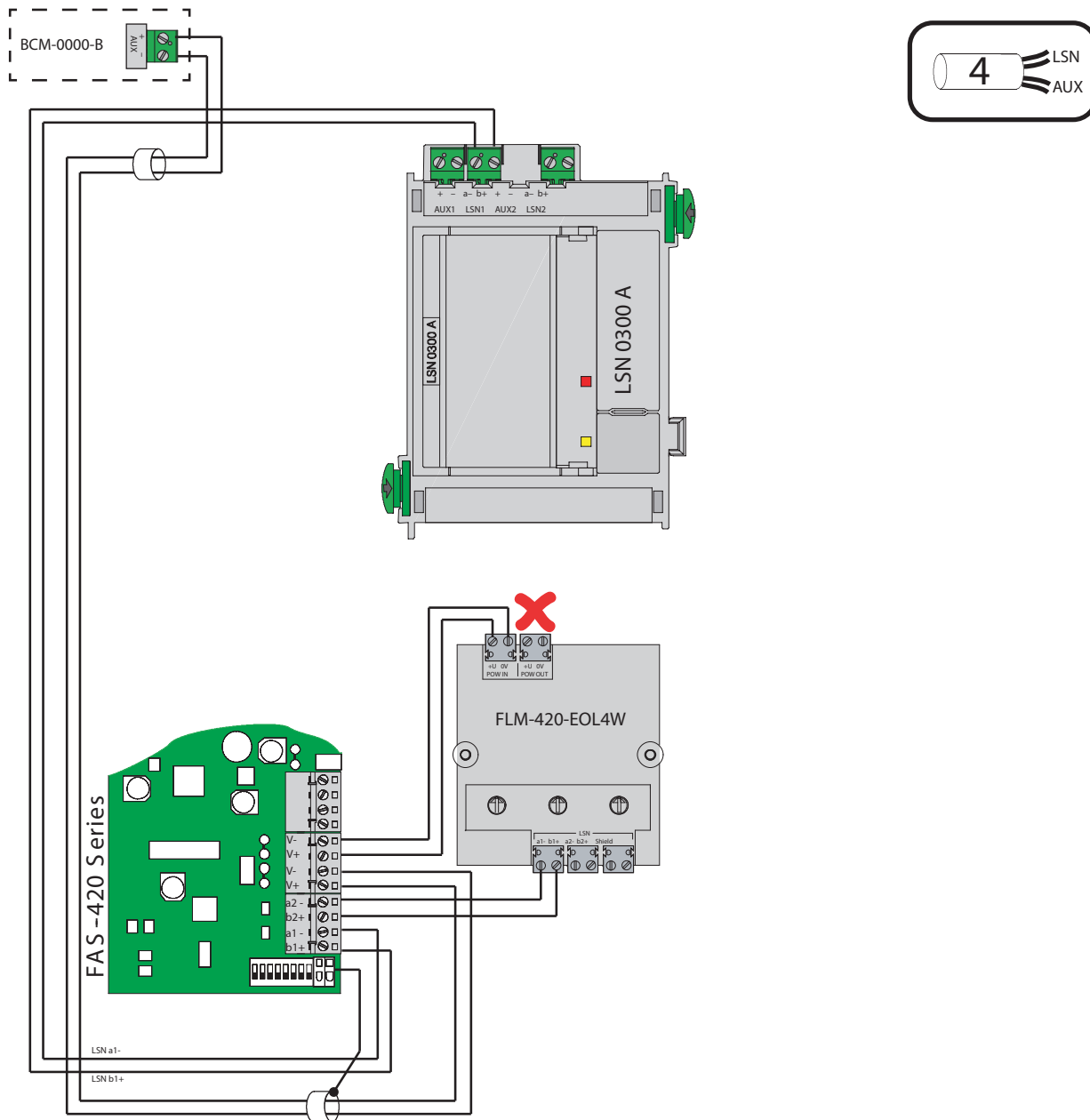


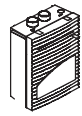
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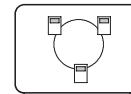


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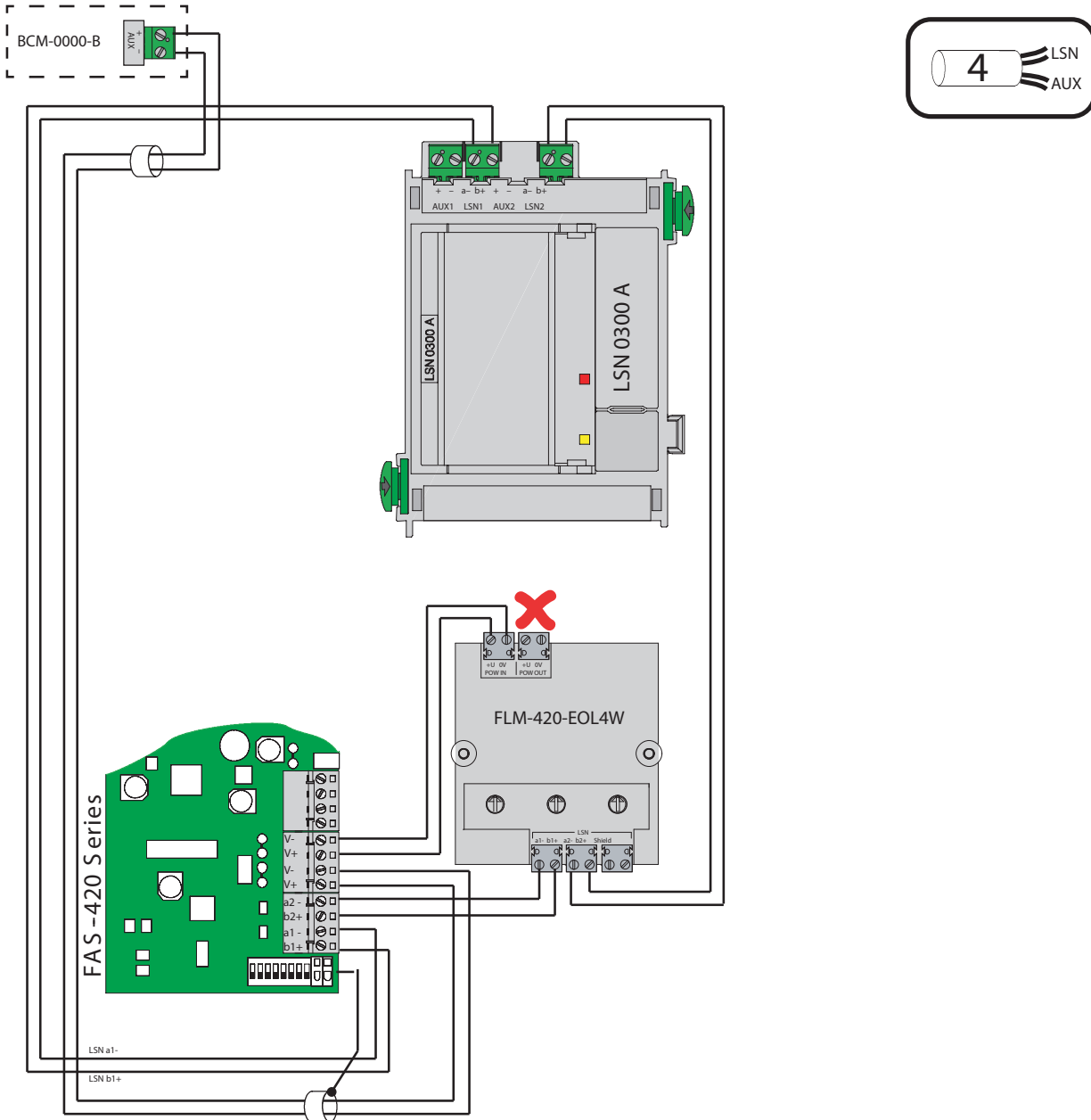


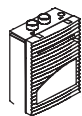


FAS-420 Series

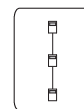


ELS VdS 2489

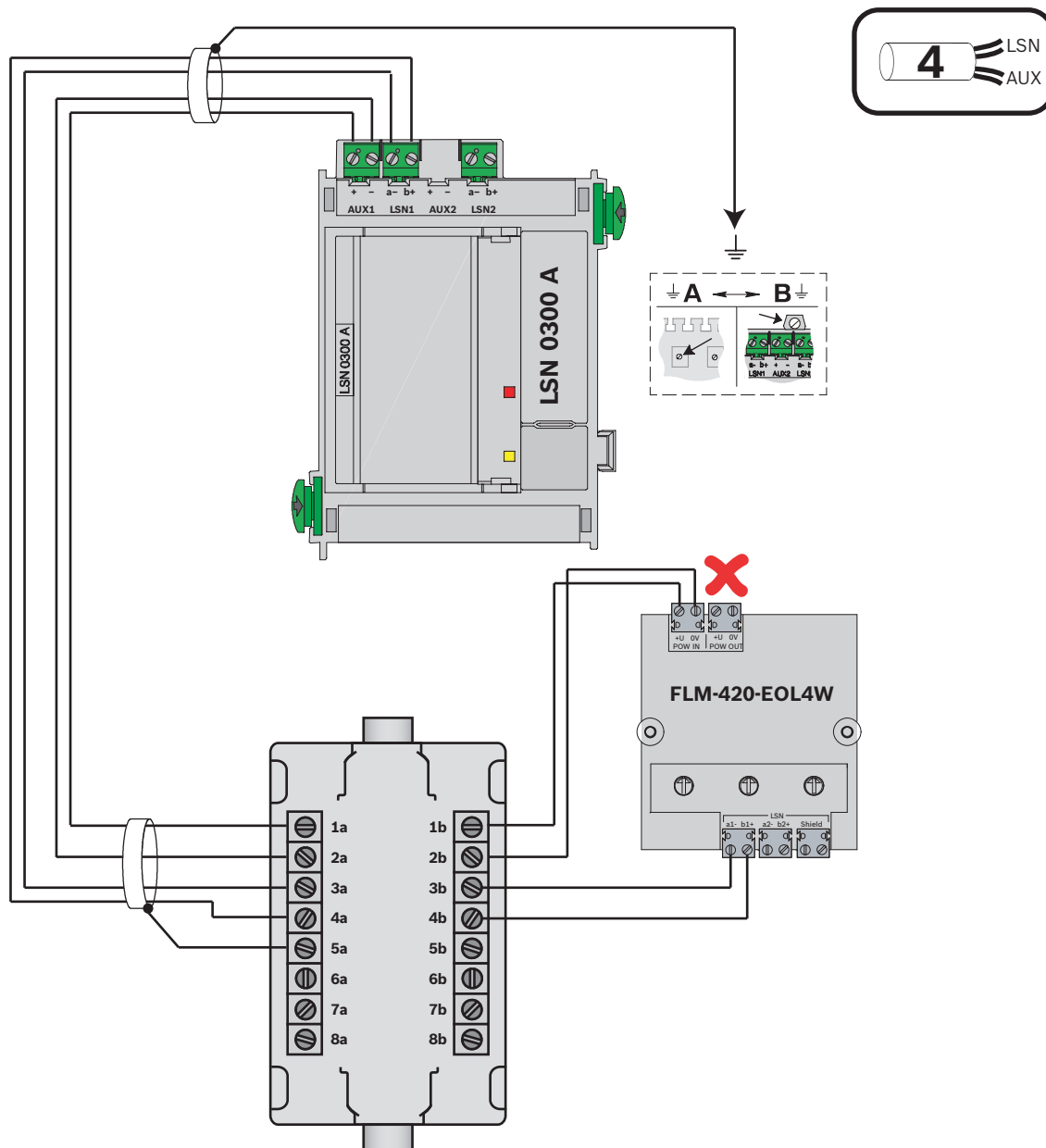


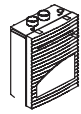


FAS-420-TM Series

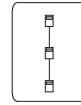


ELS VdS 2489

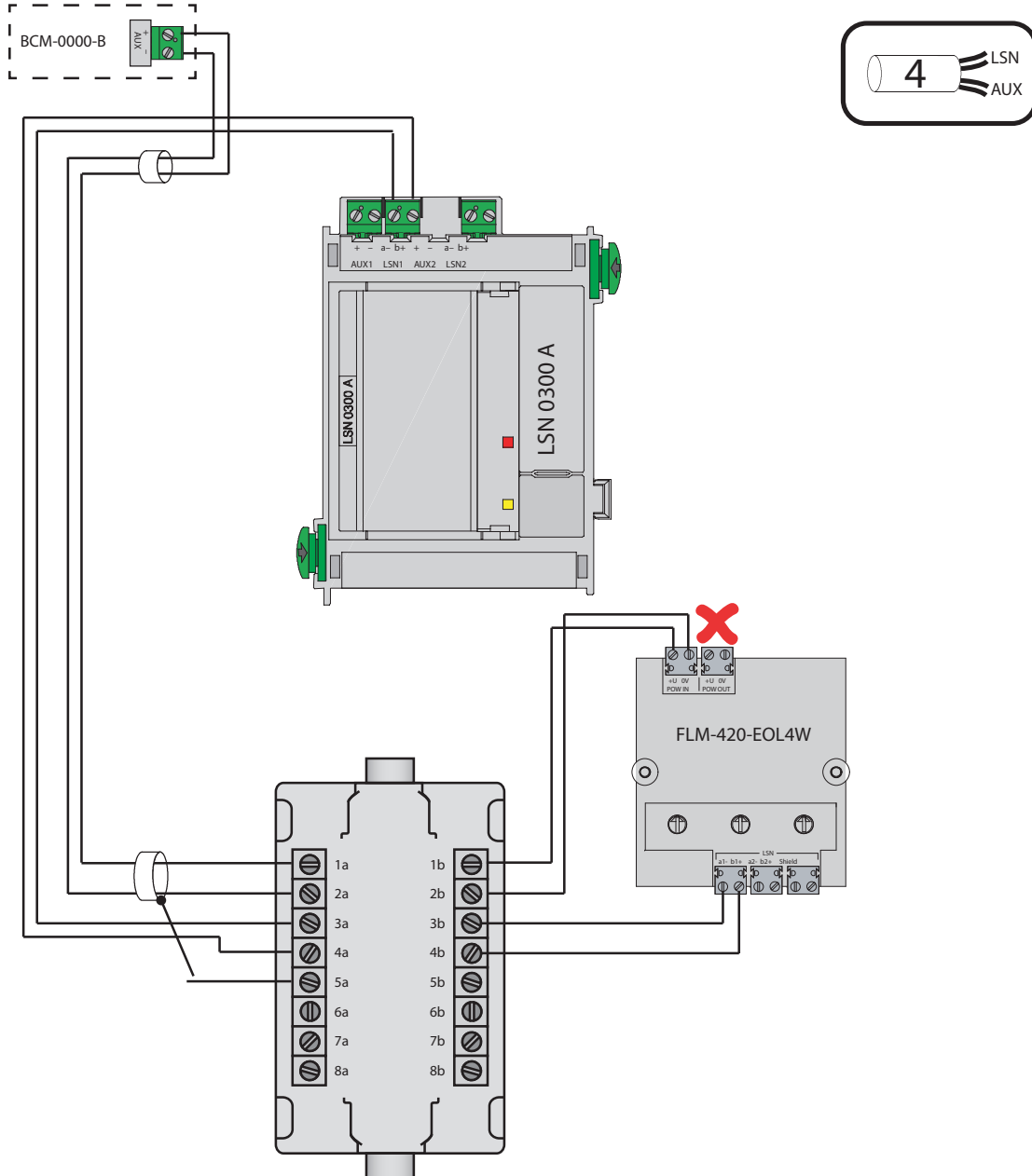


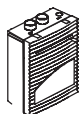


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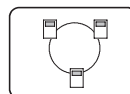


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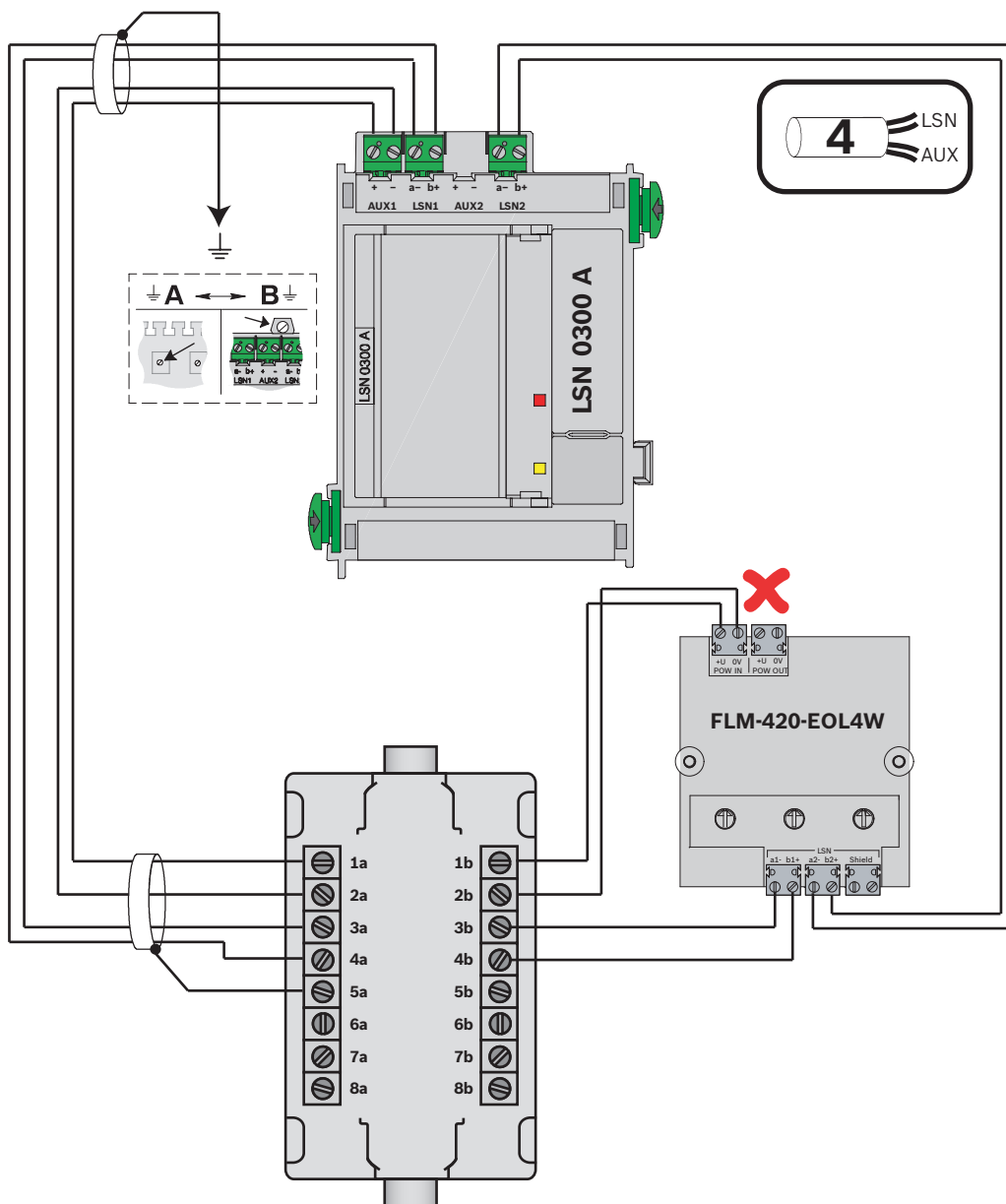


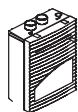


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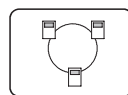


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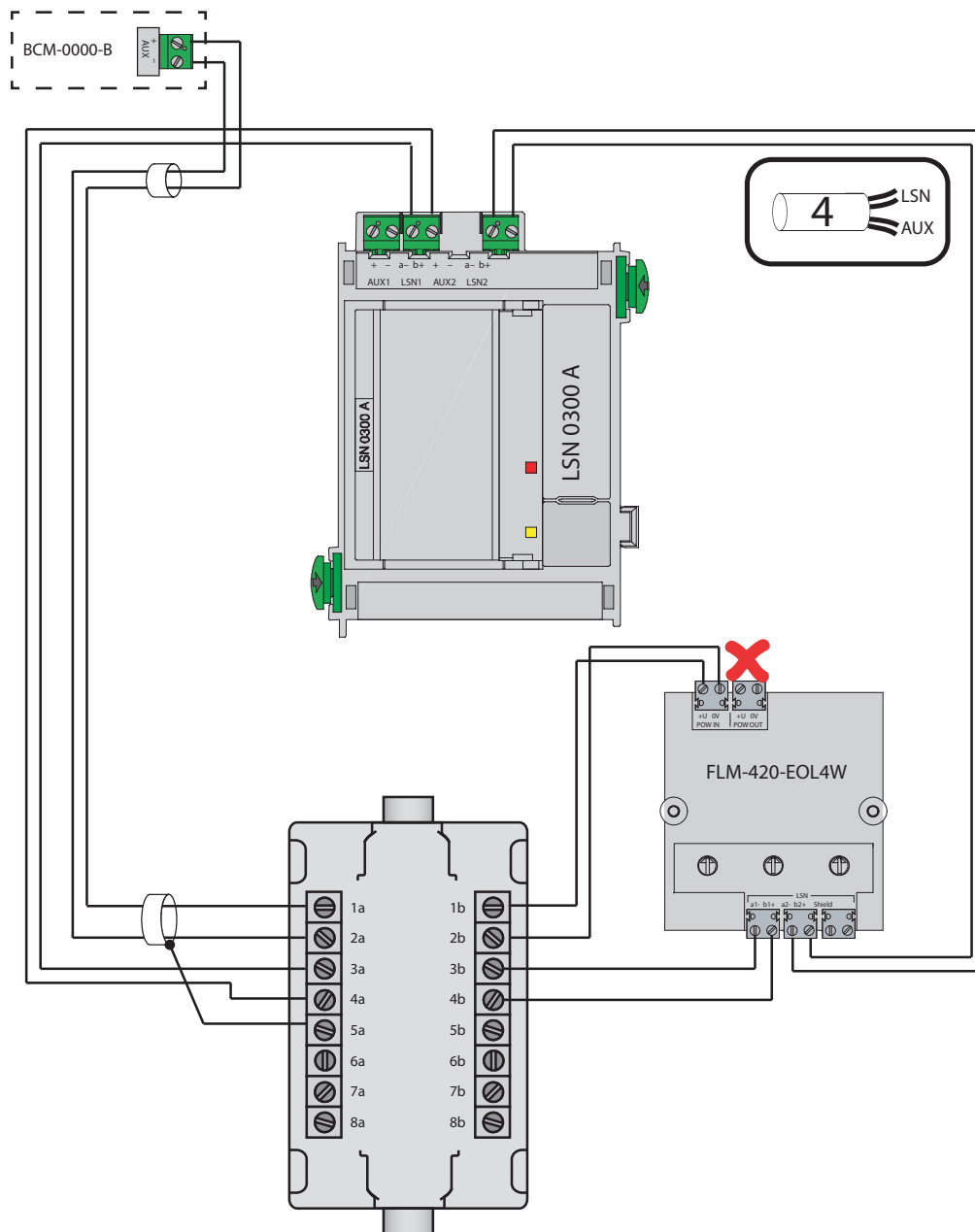




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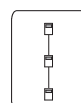
ELS VdS 2489



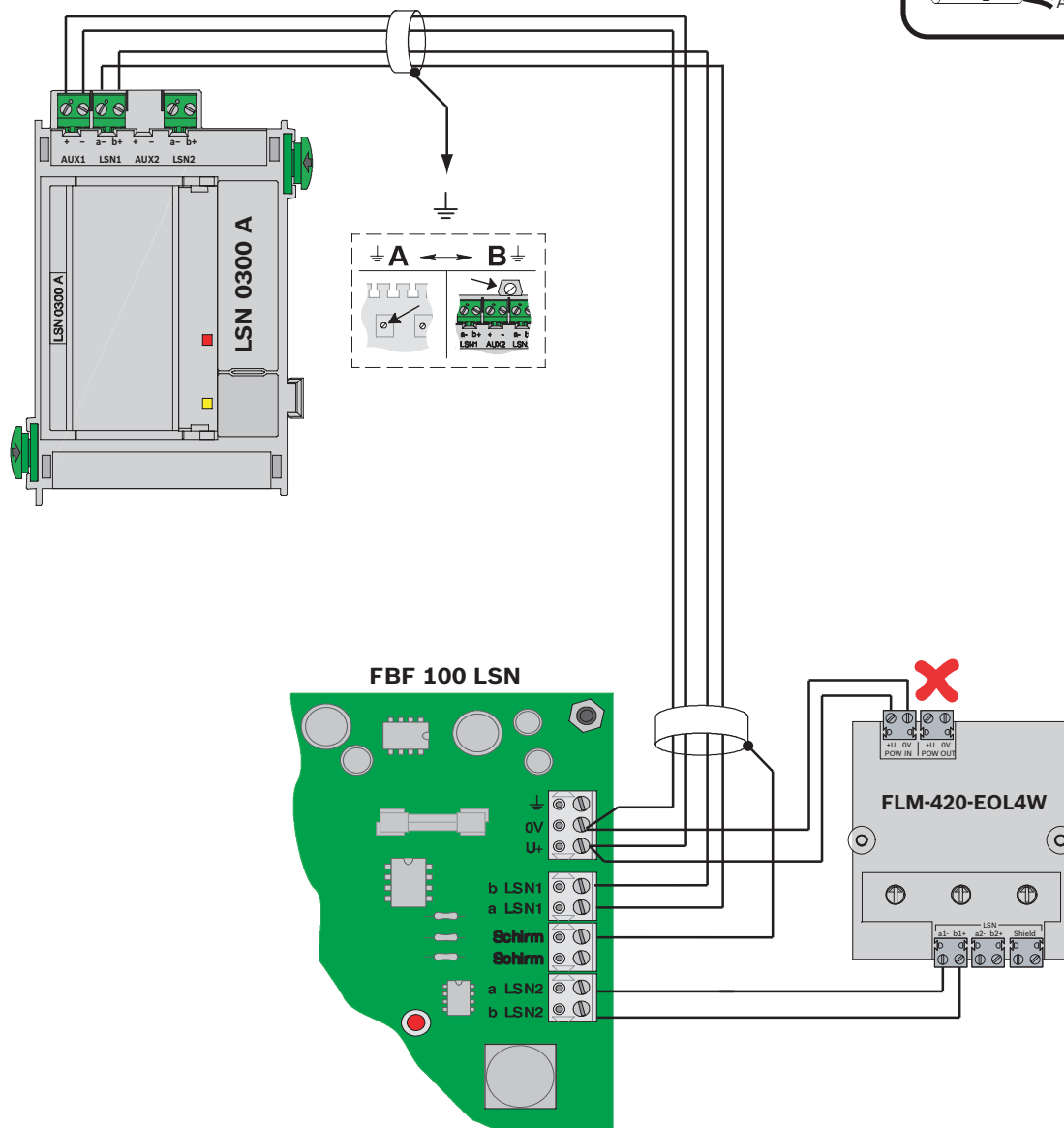
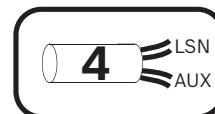


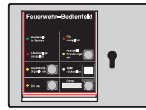


FBF 100 LSN

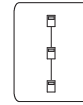


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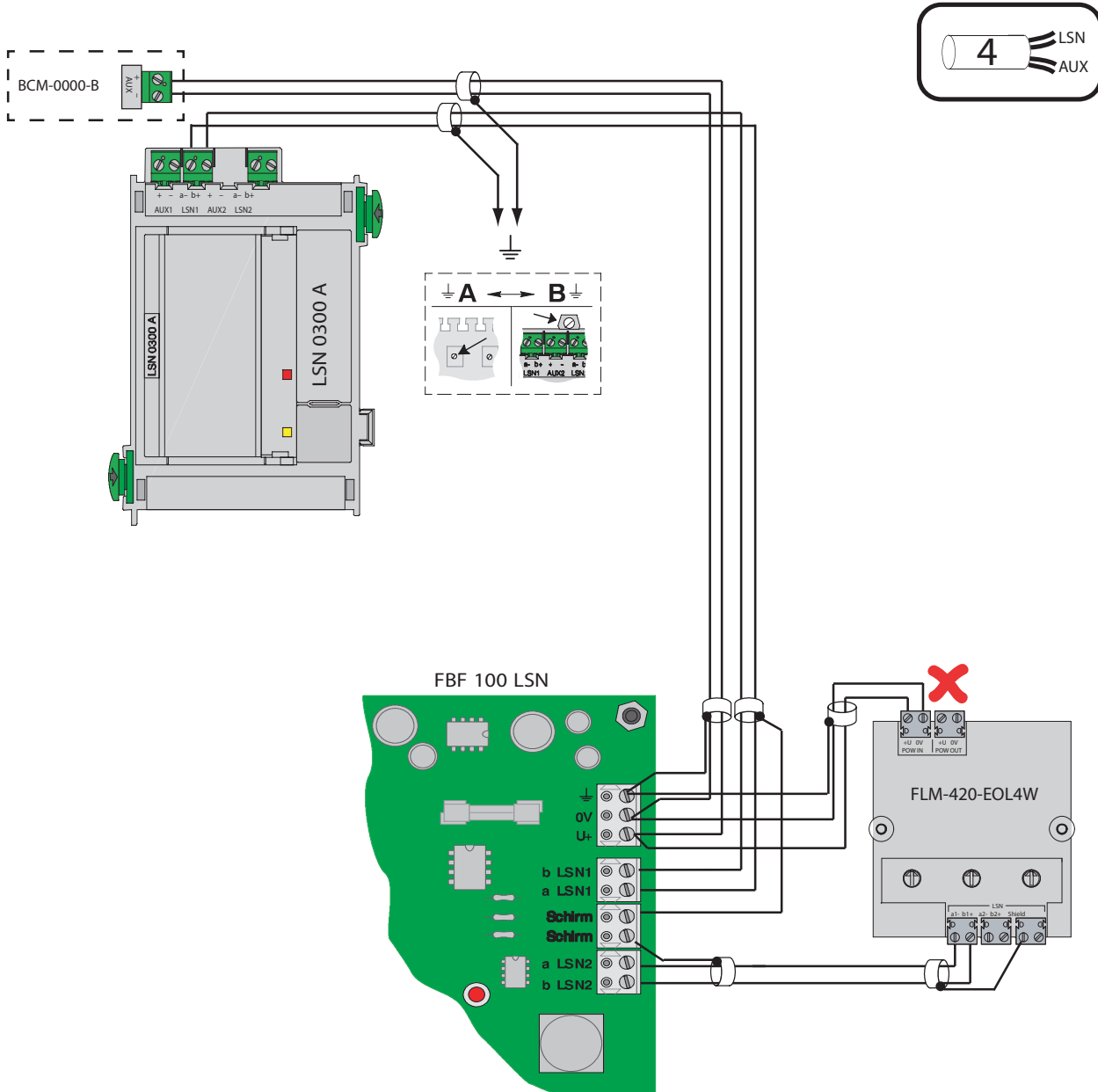




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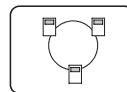


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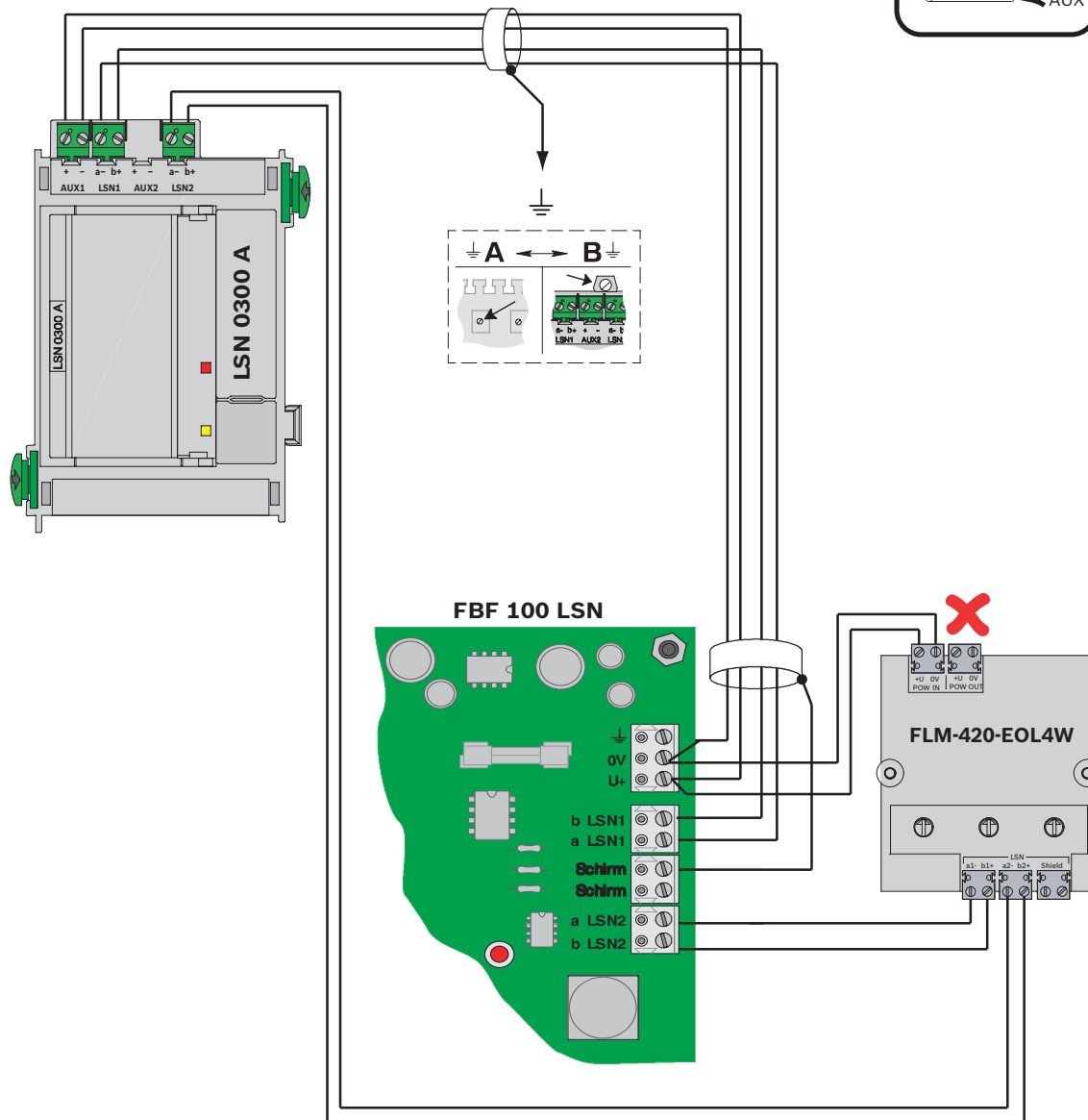
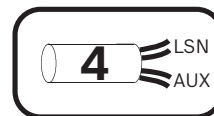


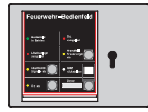


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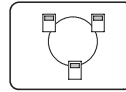


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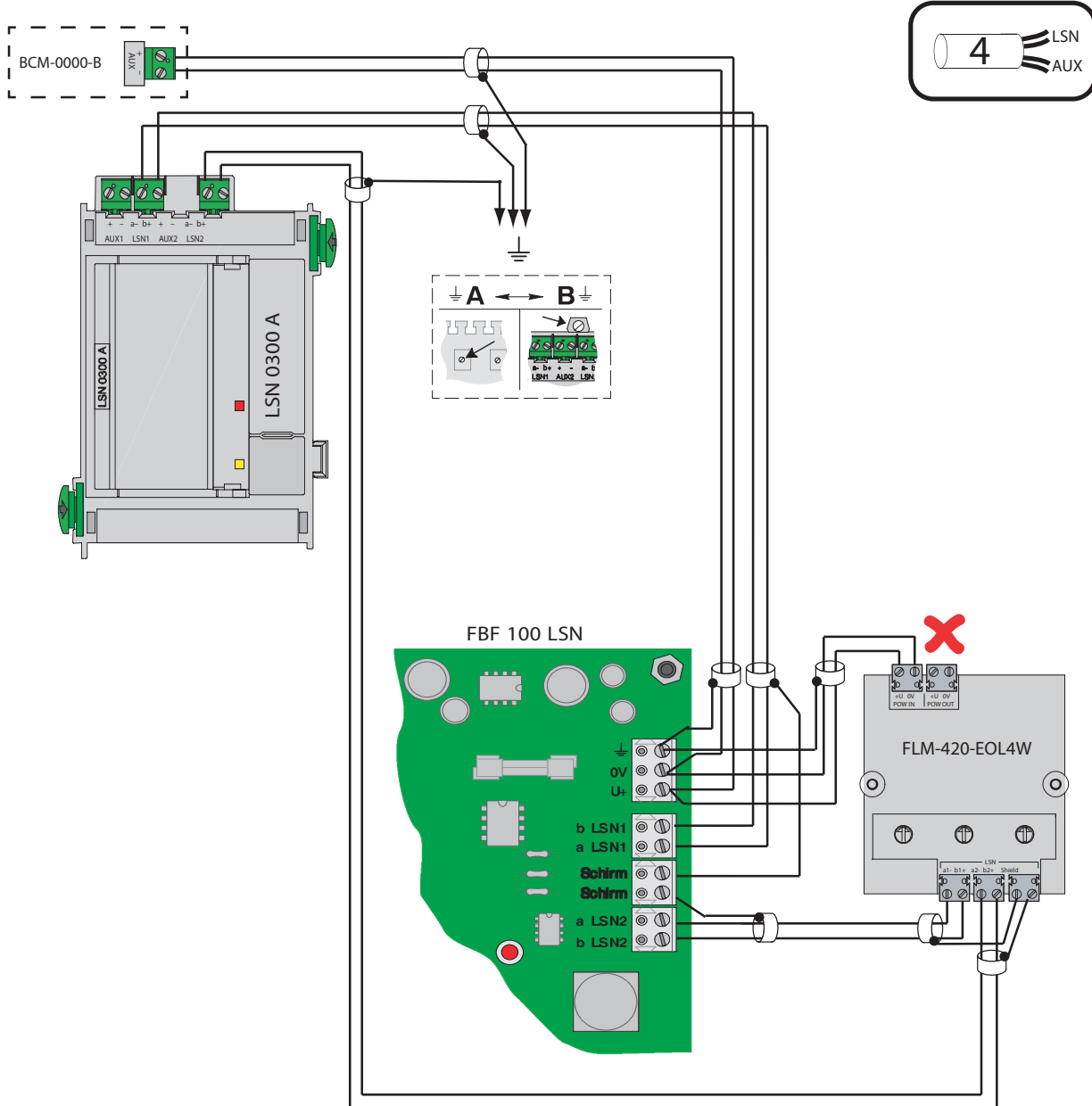


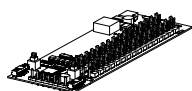


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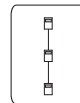


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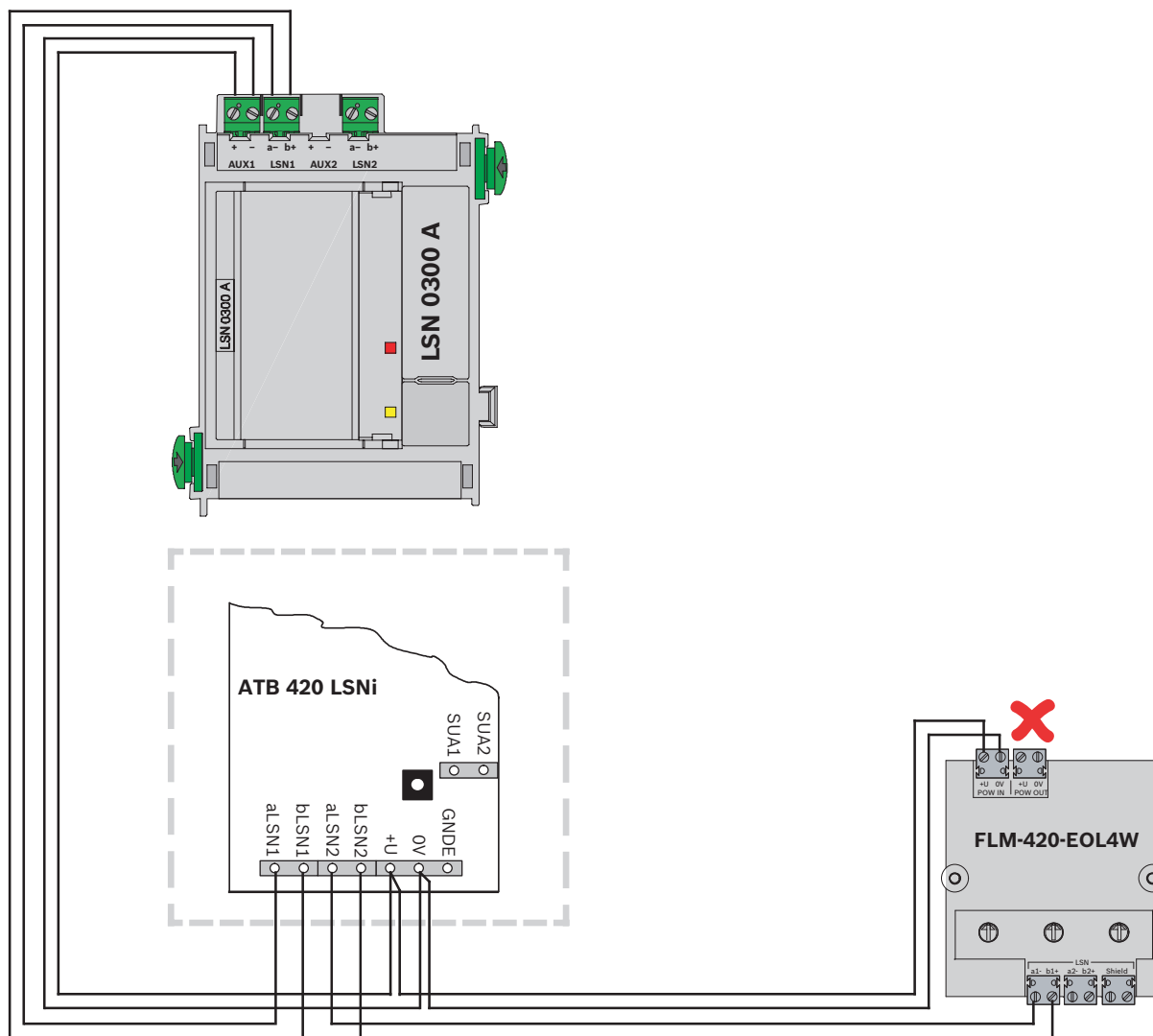
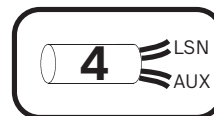


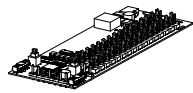


ATB 420 LSNi

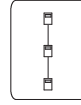


ELS VdS 2489

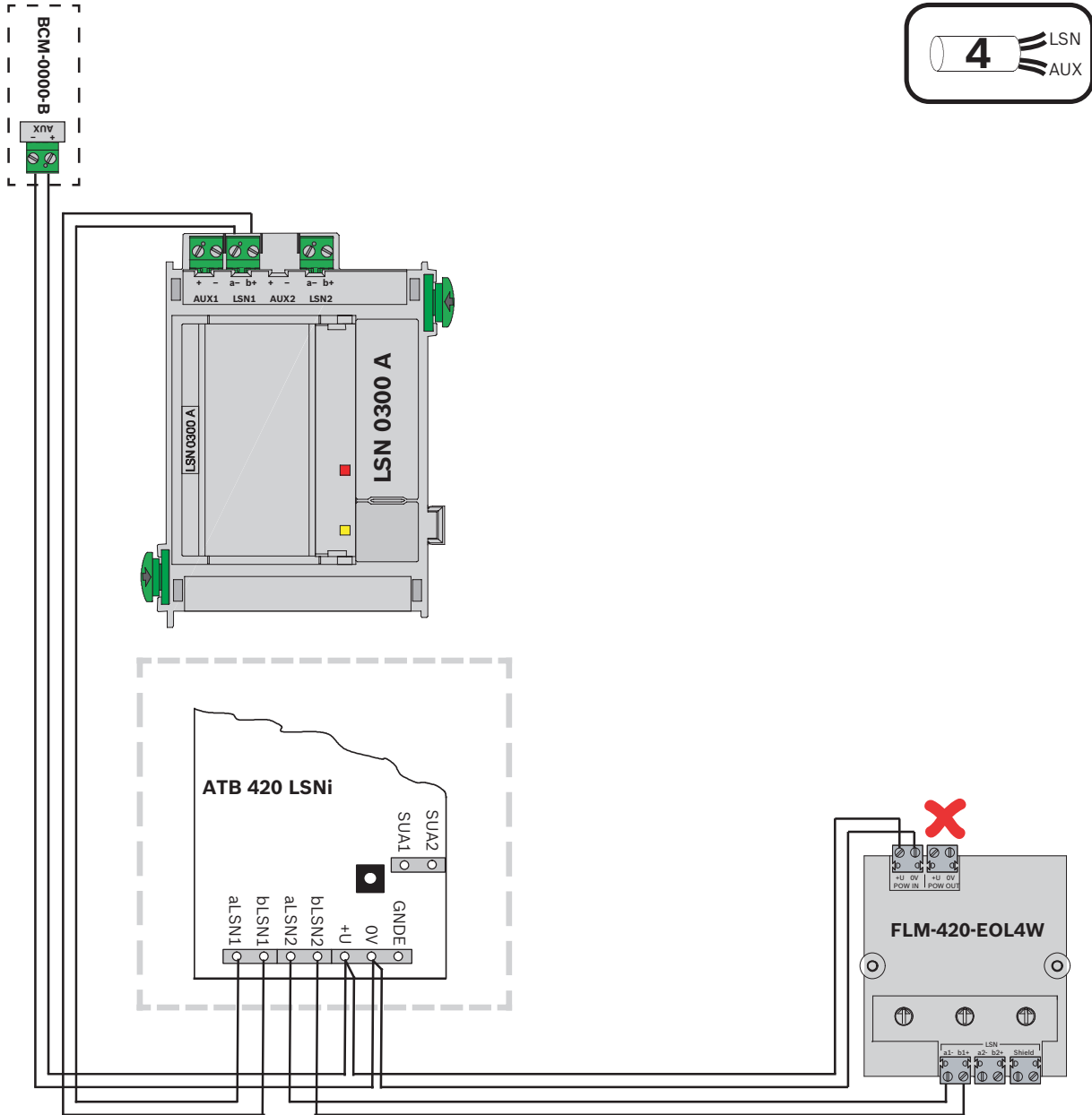


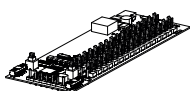


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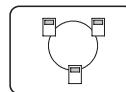


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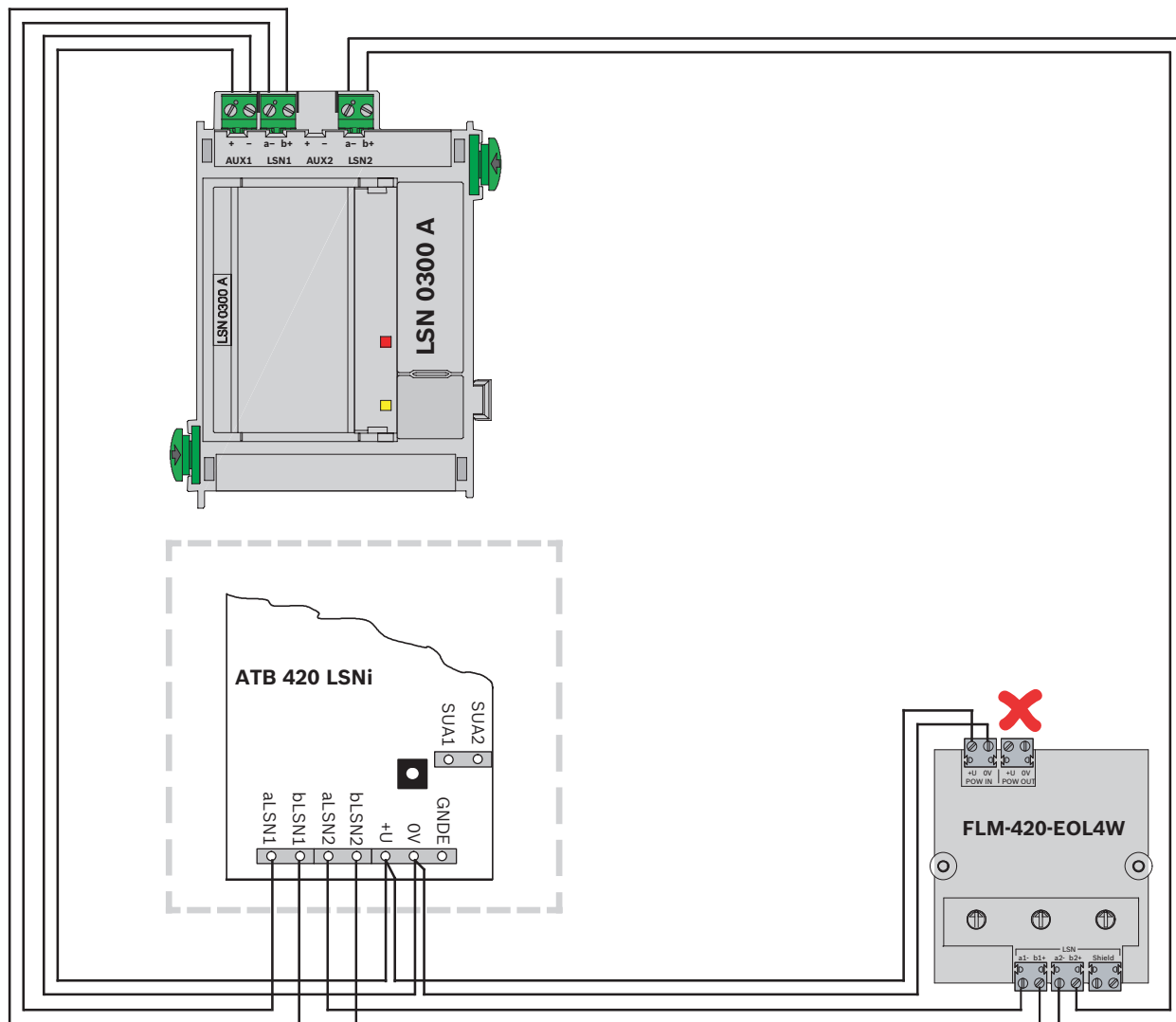
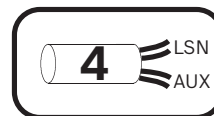


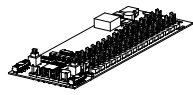


ATB 420 LSNi

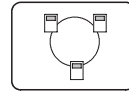


ELS Vds 2489

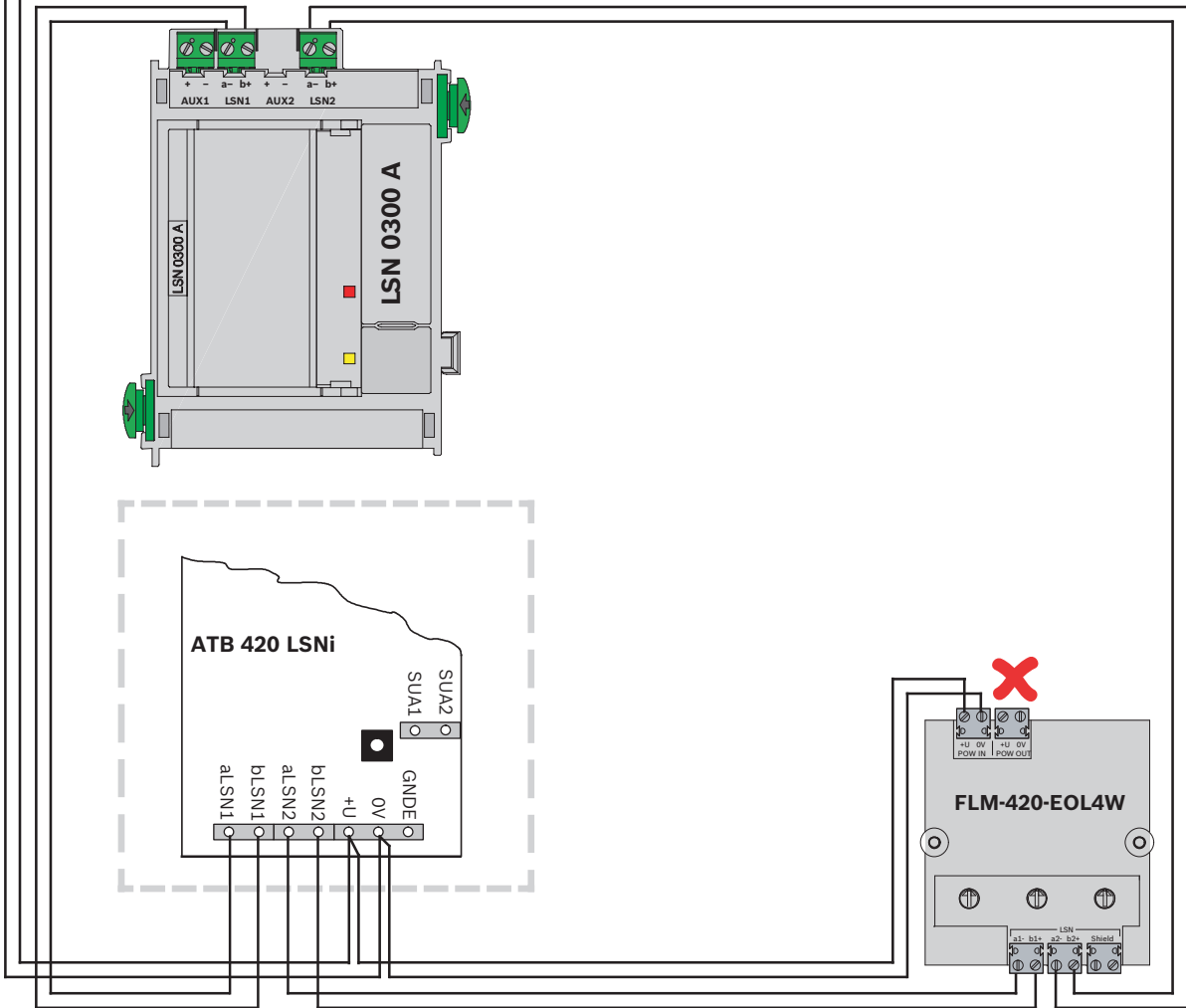
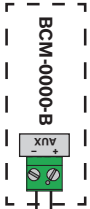




ATB 420 LSNi



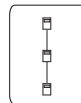
ELS VdS 2489



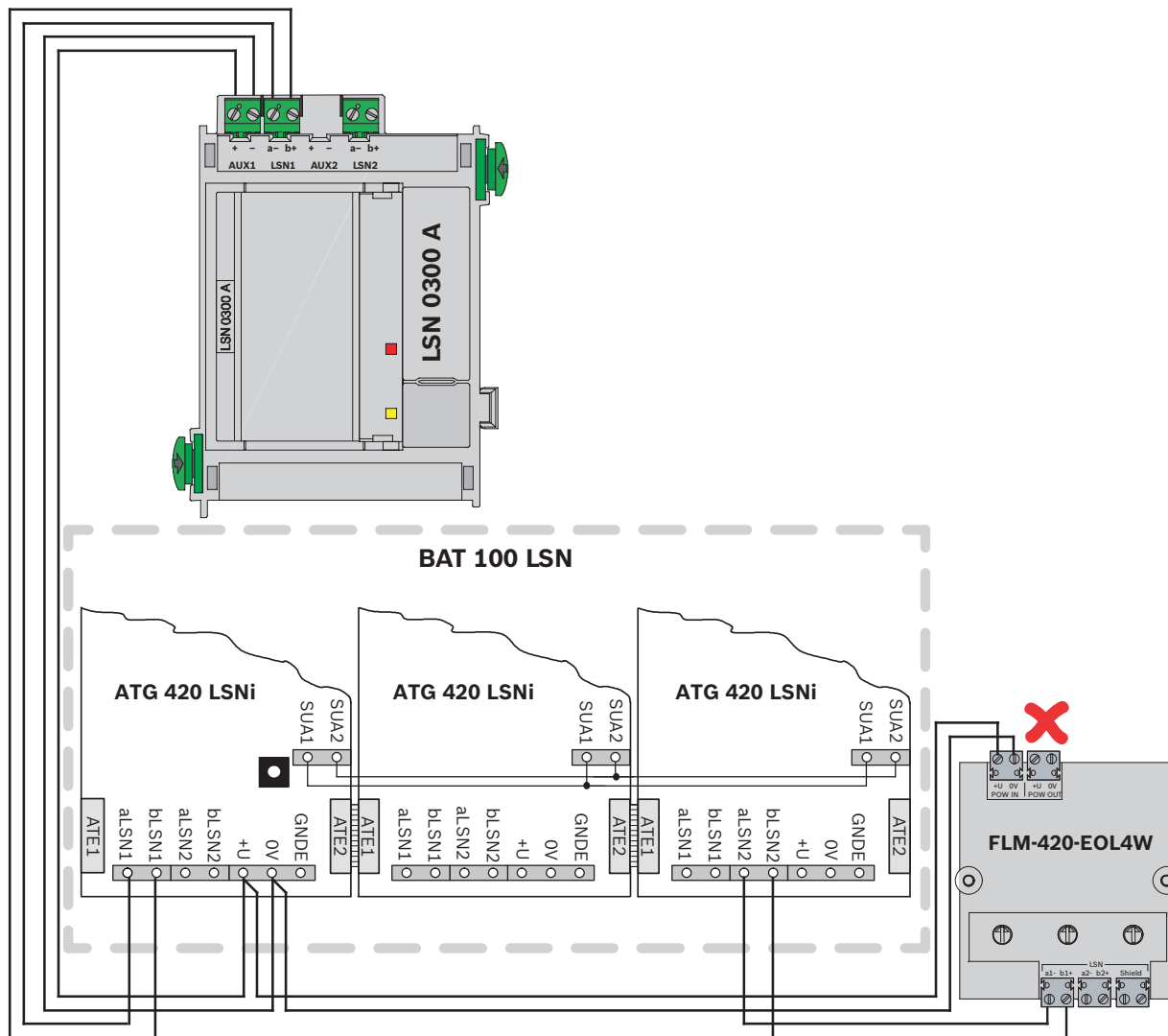
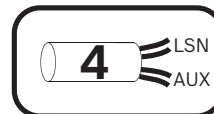




**BAT 100 LSN**  
**ATG 420 LSNi**

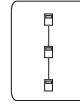


**ELS VdS 2489**

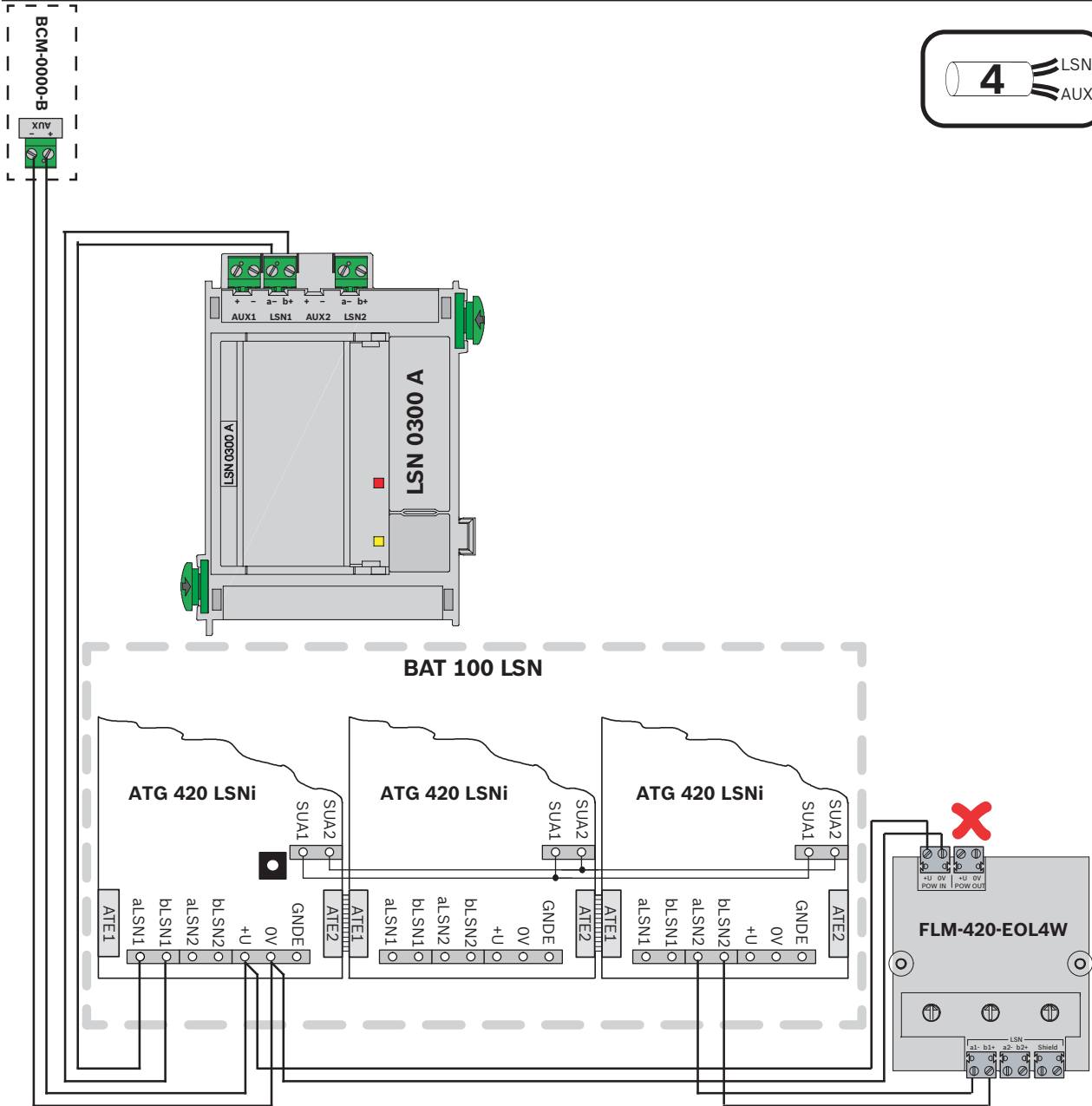




**BAT 100 LSN**  
**ATG 420 LSNi**

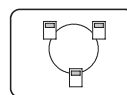


**ELS Vds 2489**

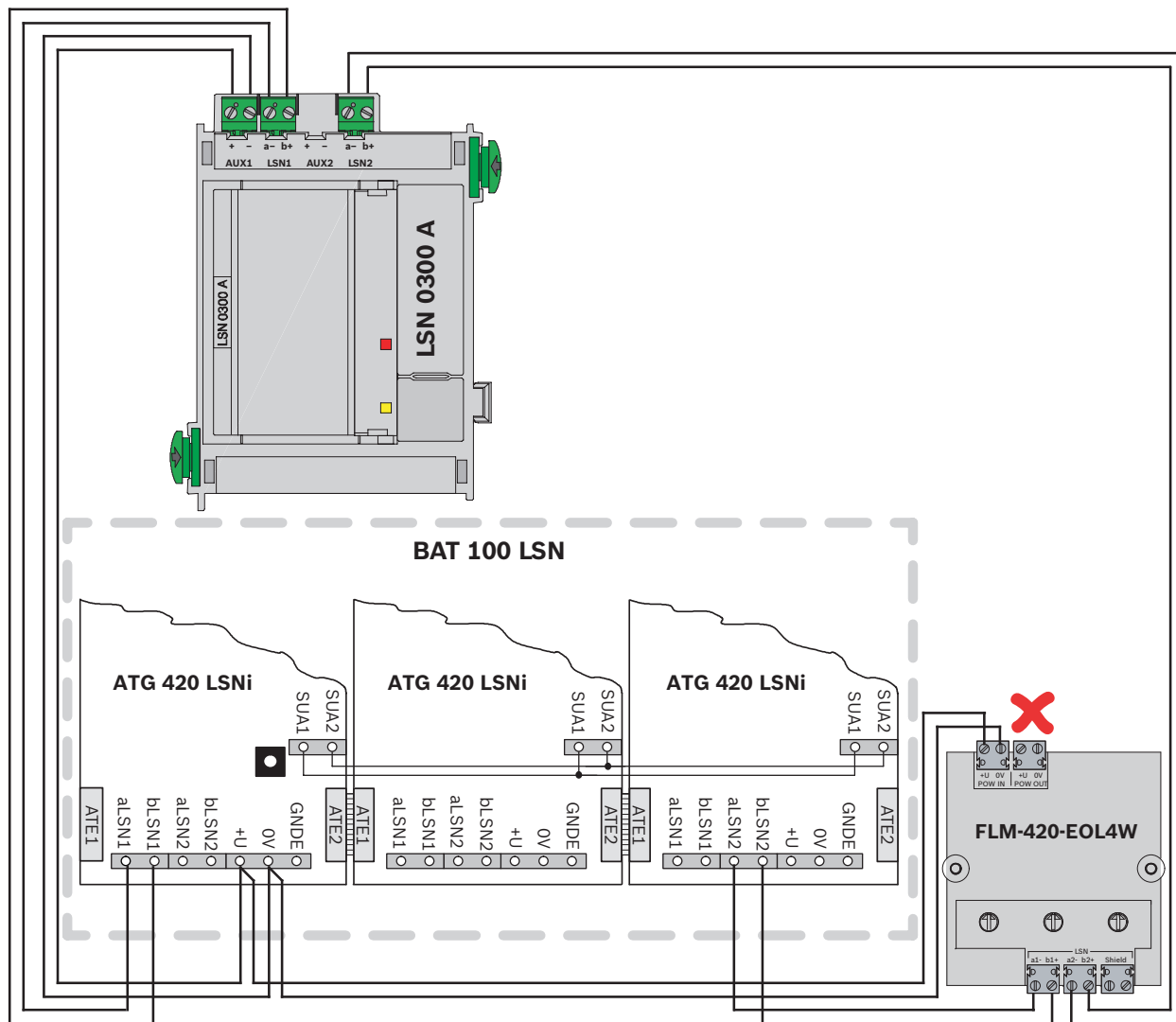
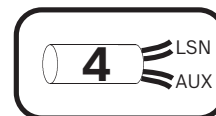




**BAT 100 LSN**  
**ATG 420 LSNi**

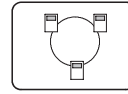


**ELS Vds 2489**

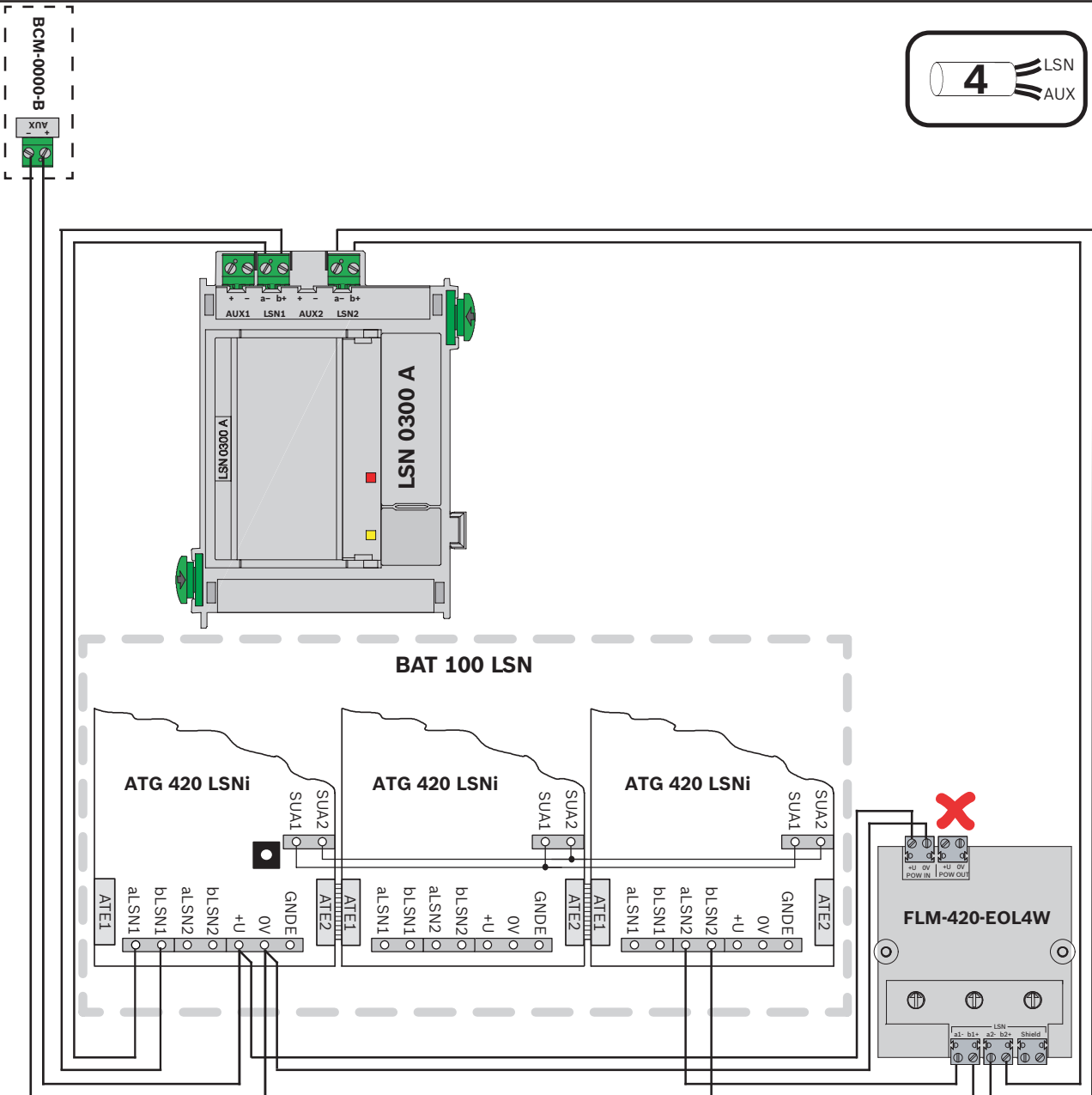
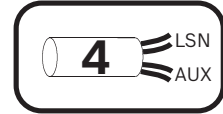


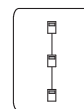
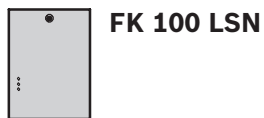
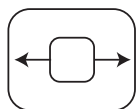


**BAT 100 LSN  
ATG 420 LSNi**

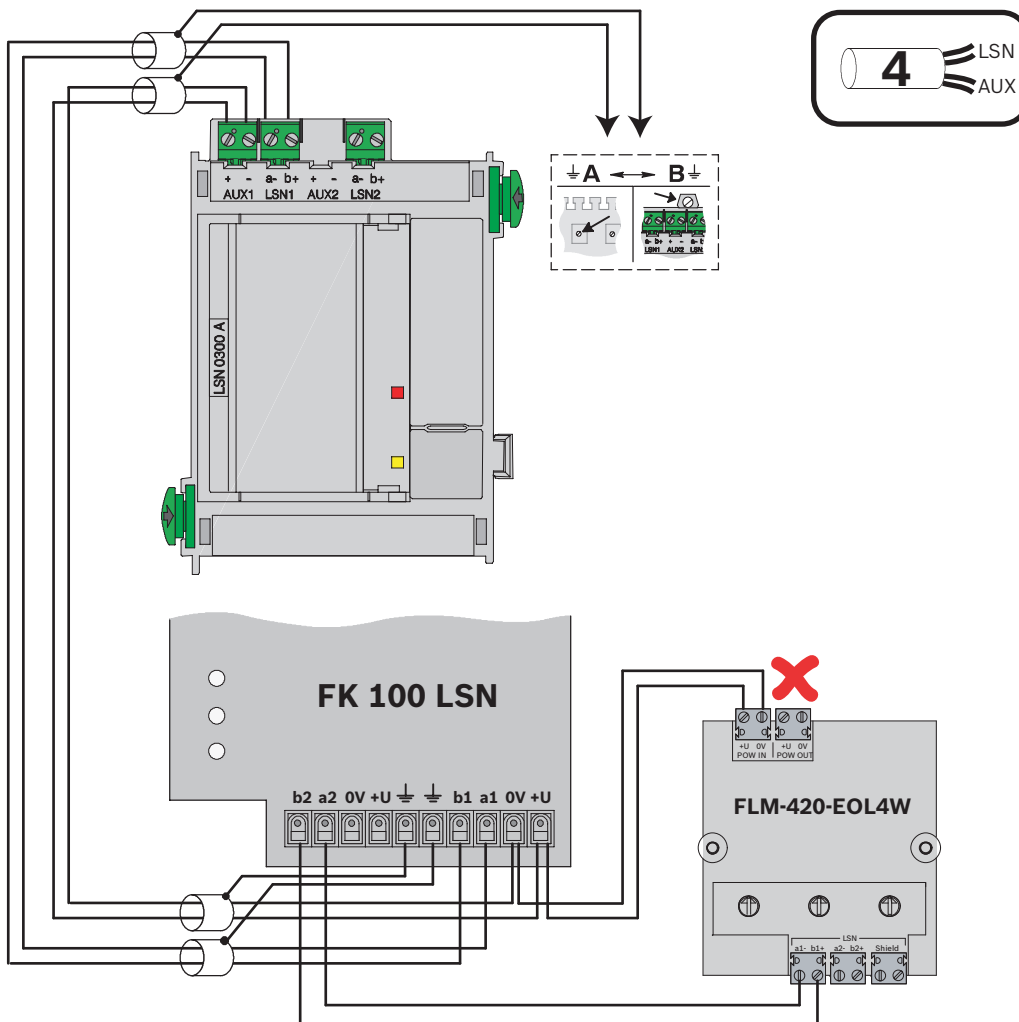
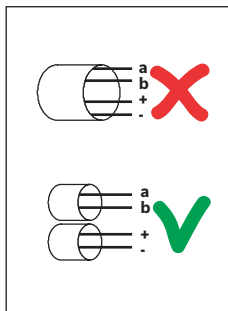


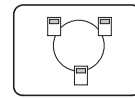
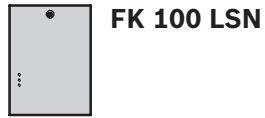
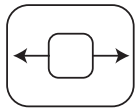
**ELS VdS 2489**



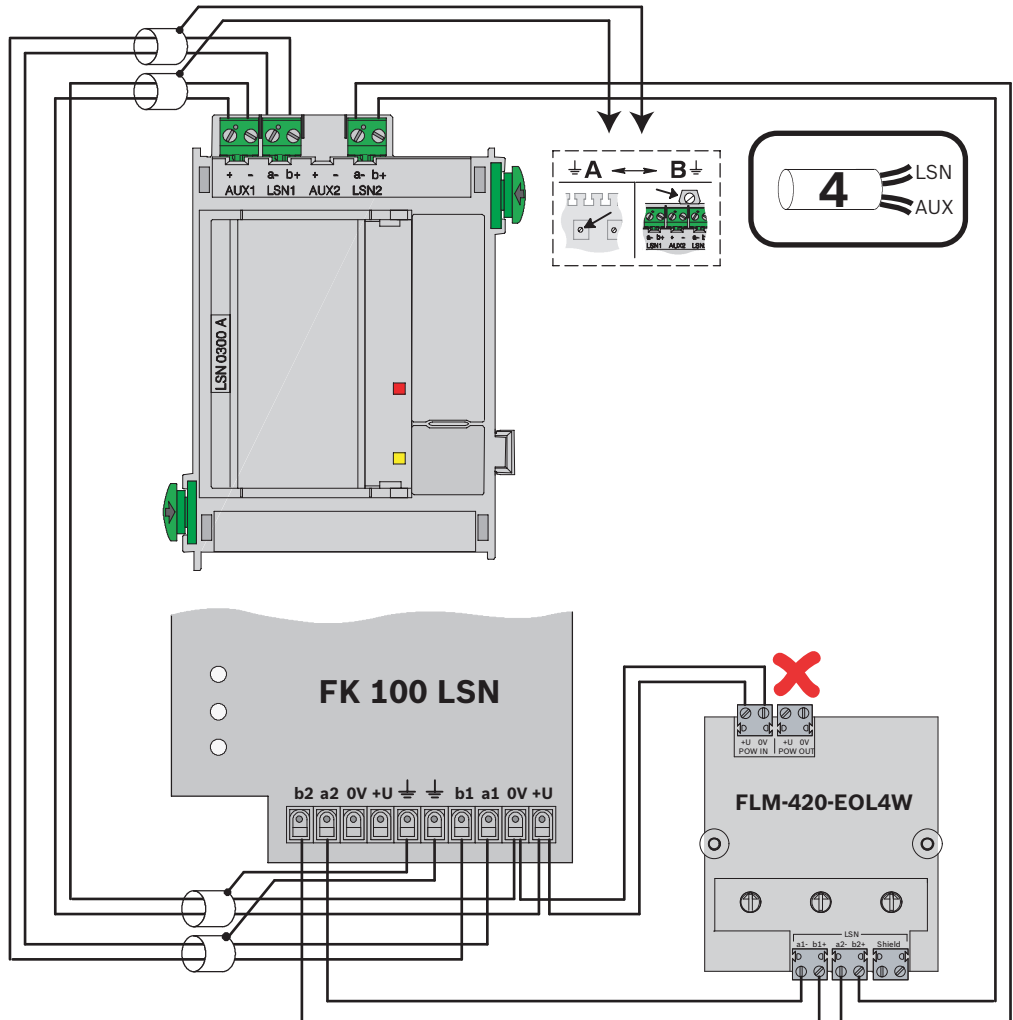
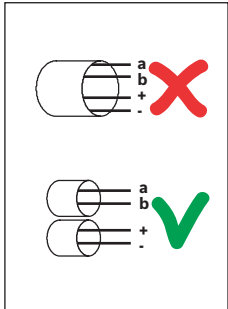


**ELS VdS 2489**

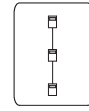




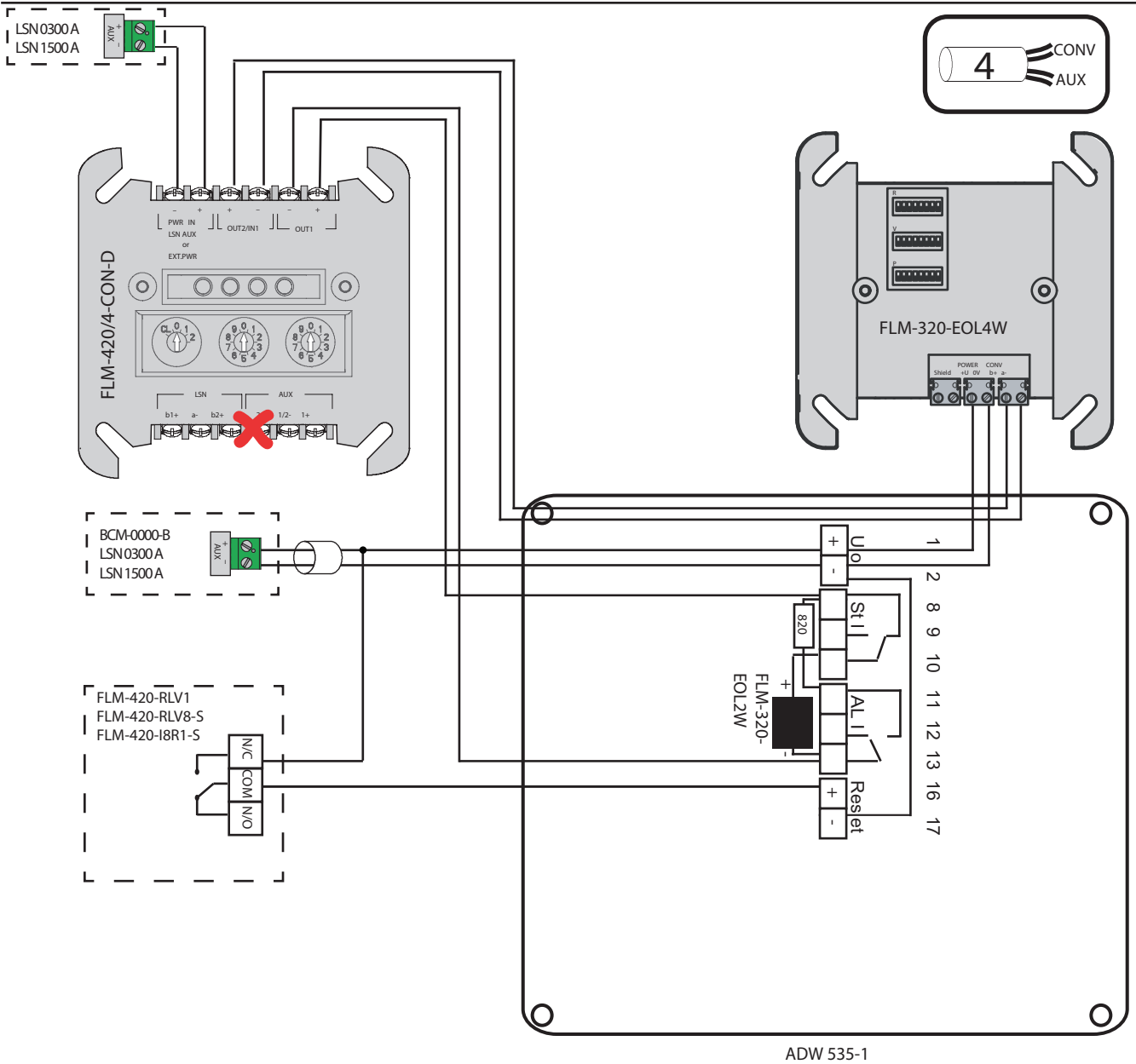
ELS VdS 2489



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

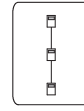


ELS VdS 2489



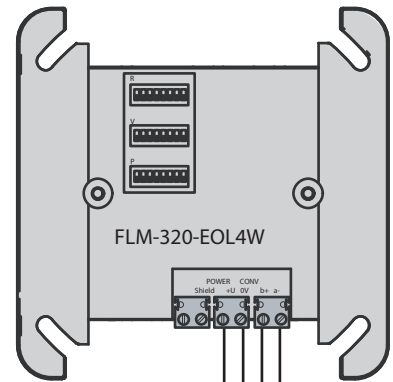
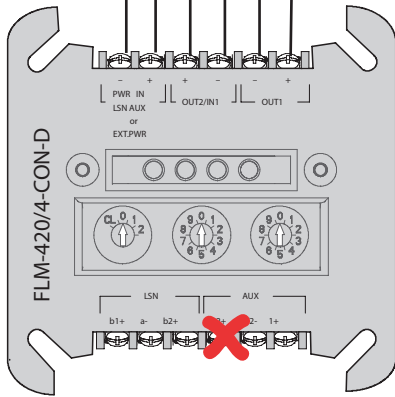


ADW 535-2



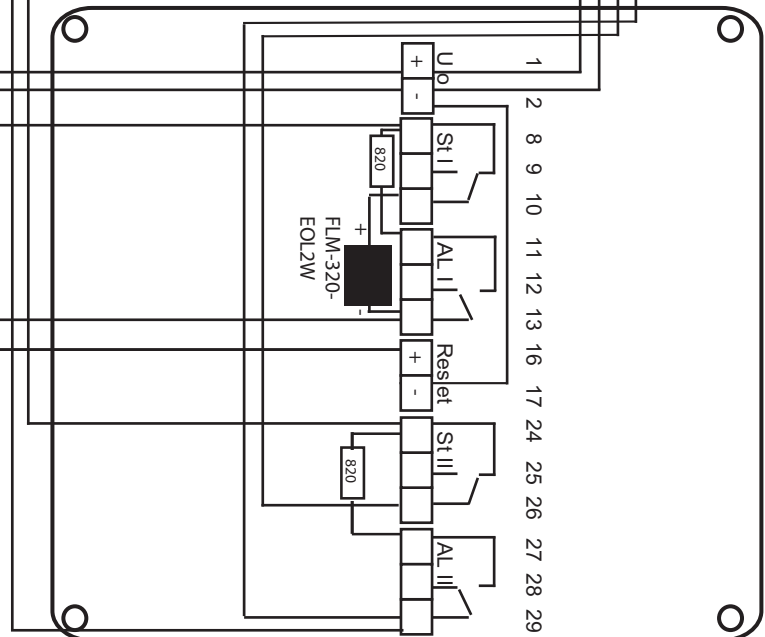
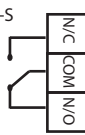
ELS VdS 2489

LSN 0300 A  
LSN 1500 A



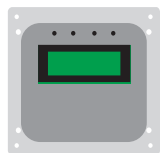
BCM-000-B  
LSN 0300 A  
LSN 1500 A

FLM-420-RLV1  
FLM-420-RLV8-S  
FLM-420-I8R1-S



ADW 535-2

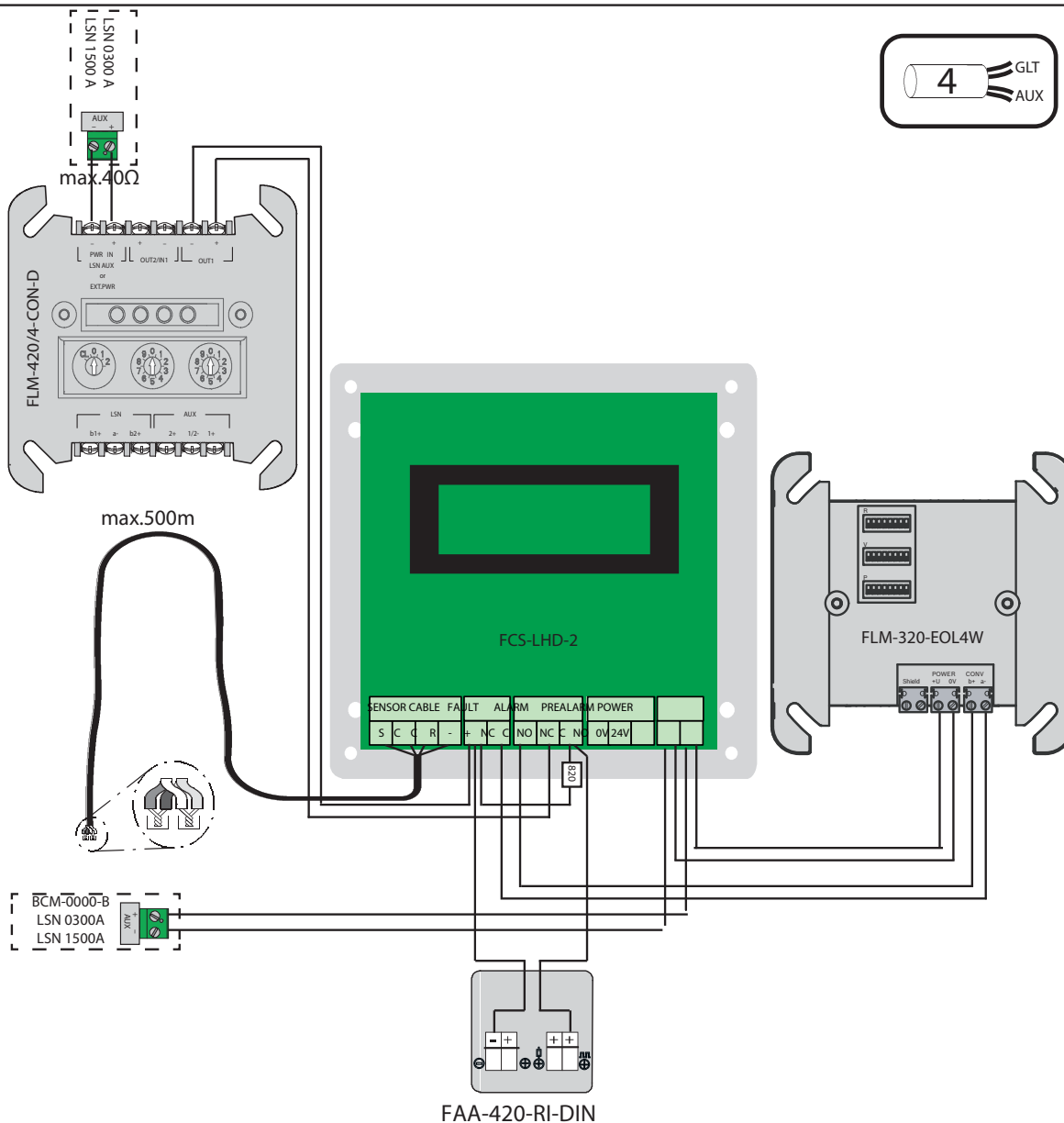




ALARMLINE II

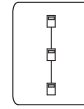


ELS VdS 2489

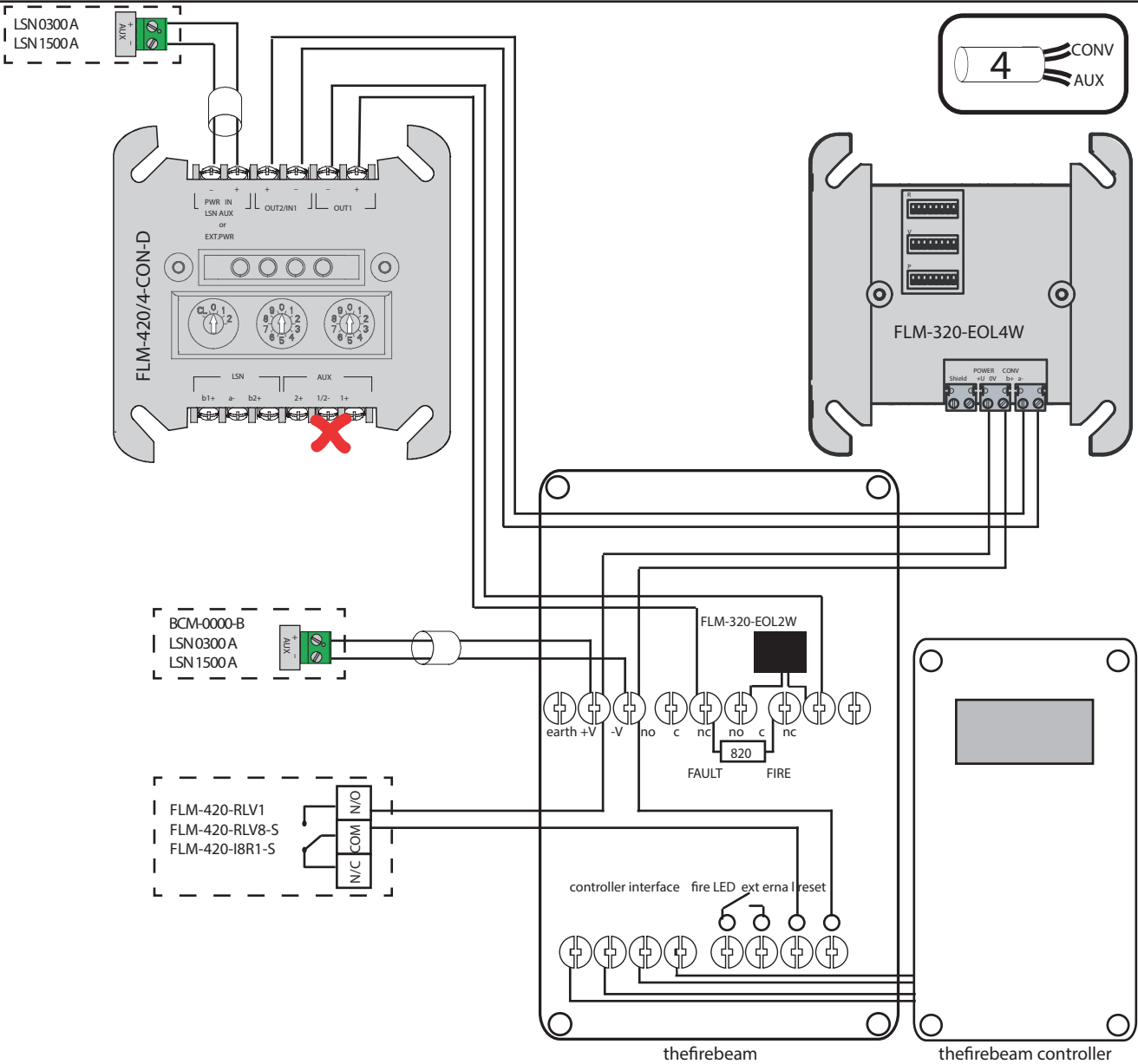


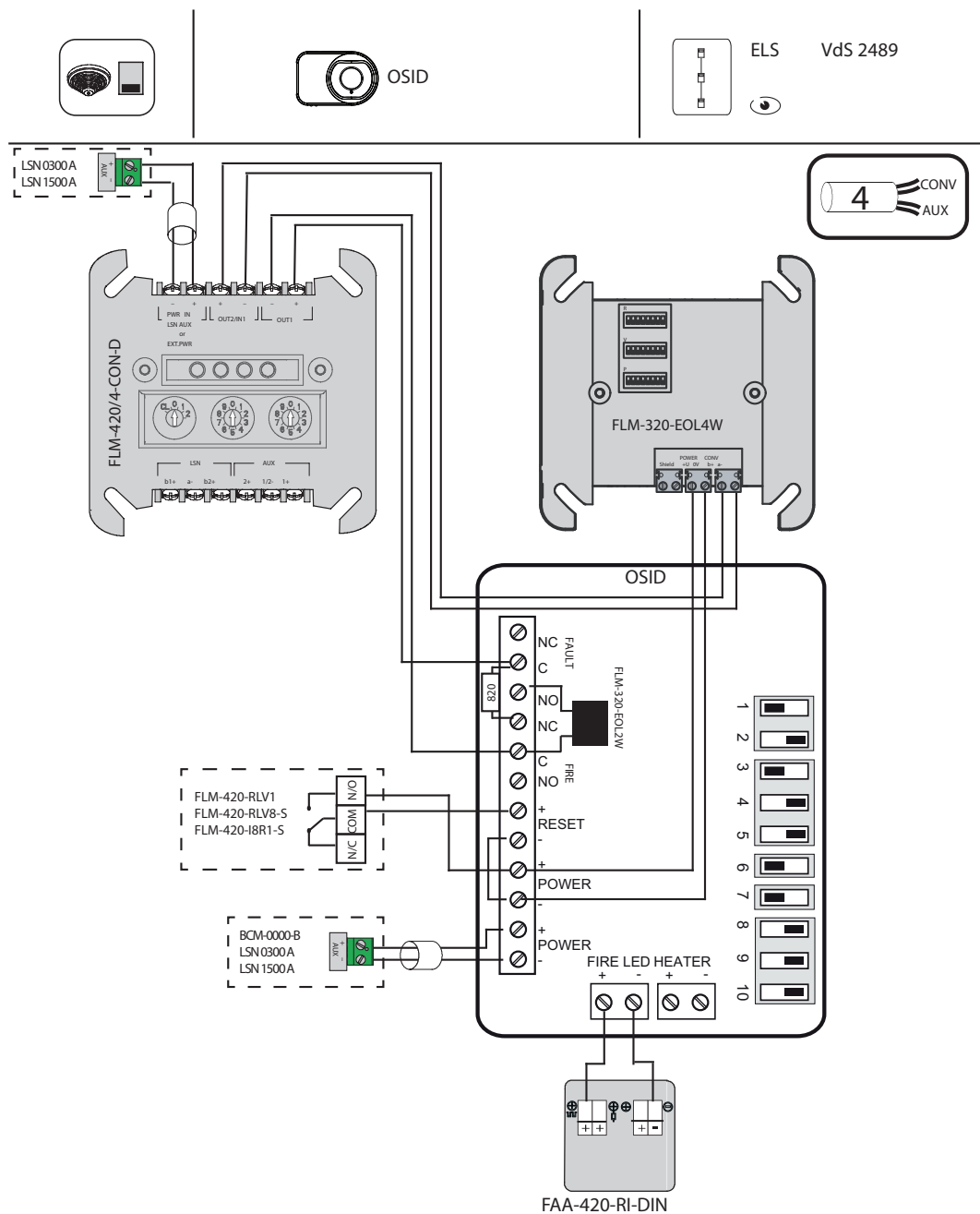


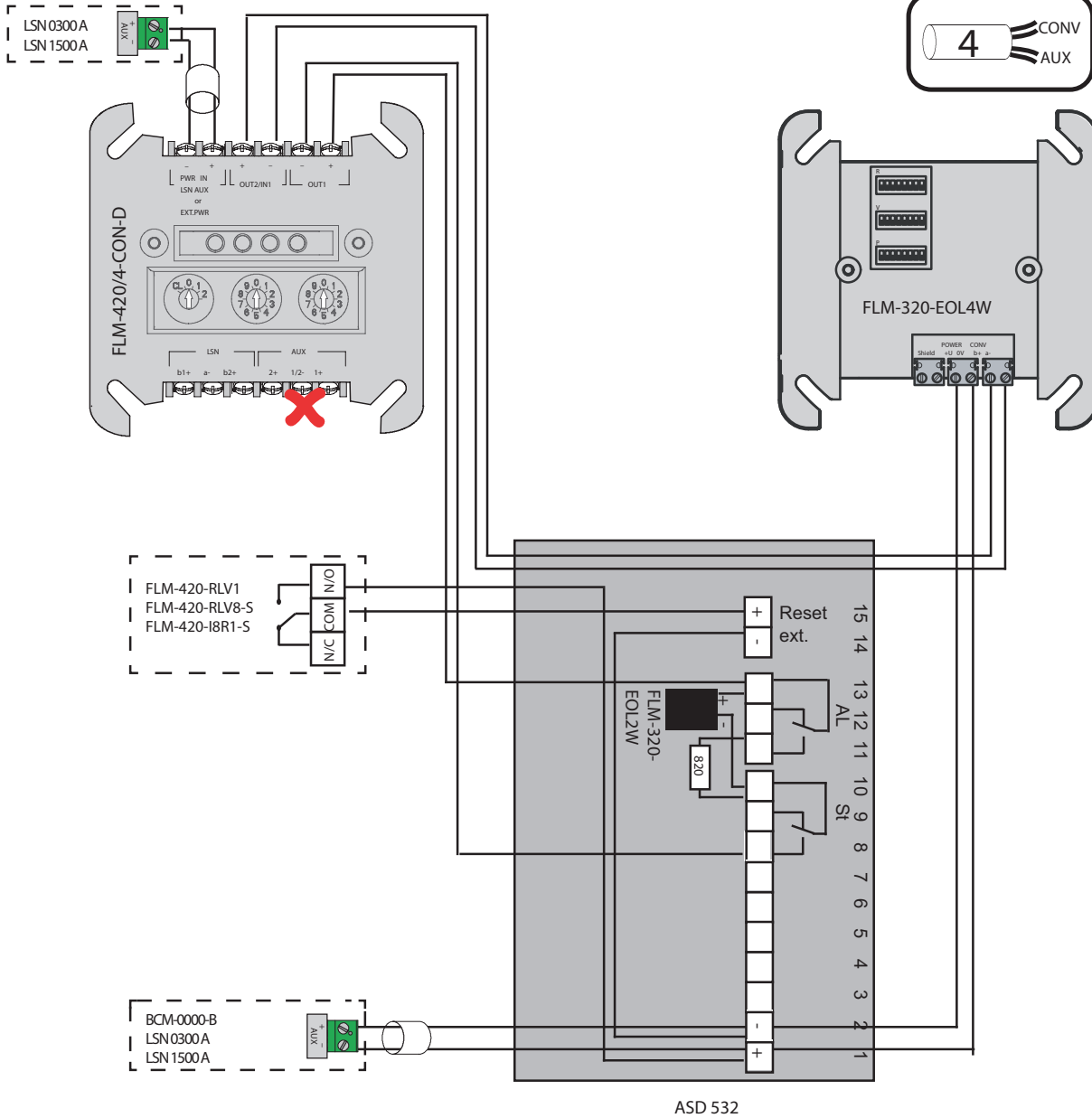
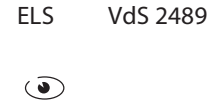
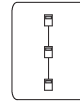
thefirebeam nano  
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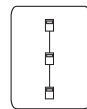


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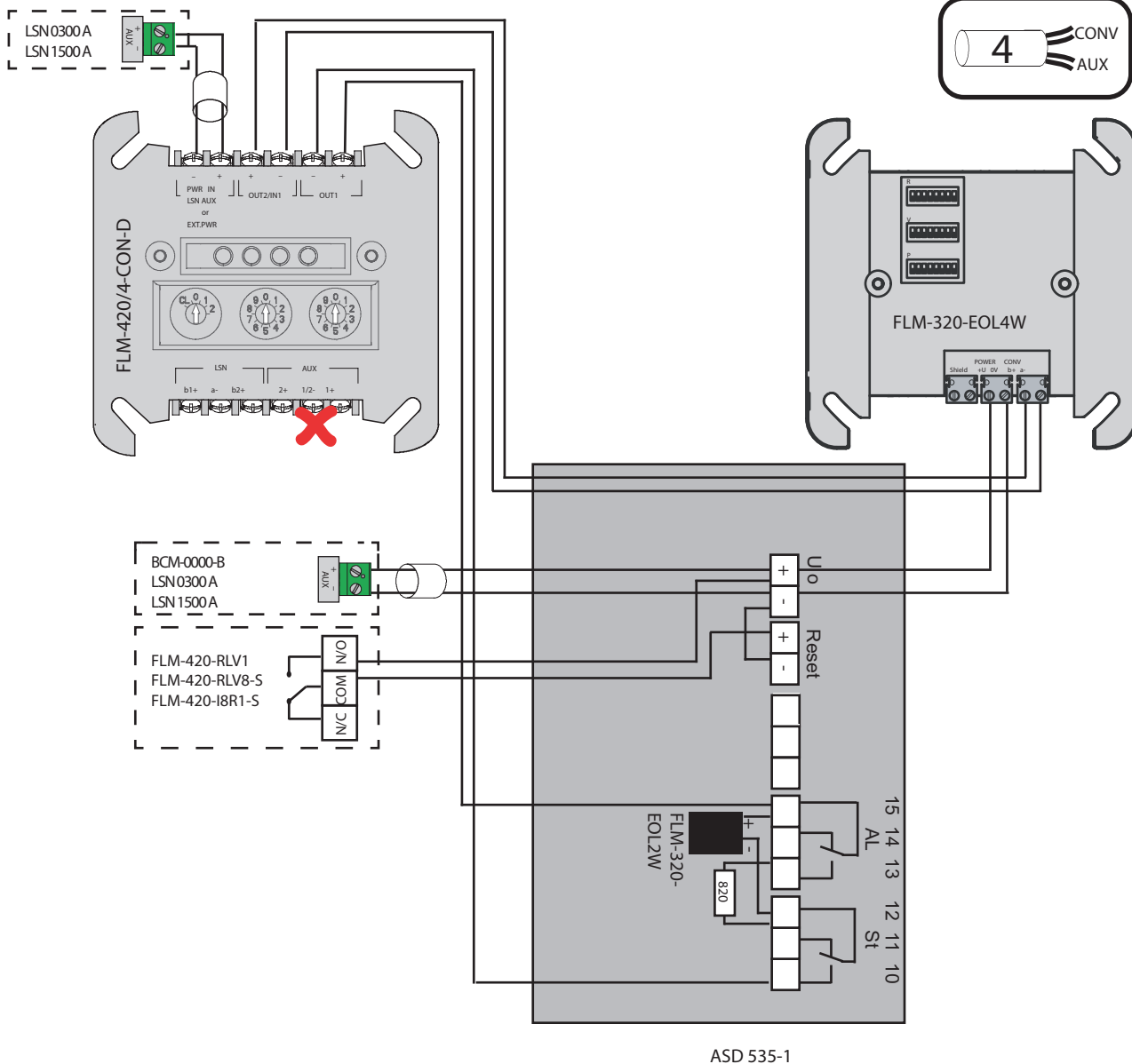


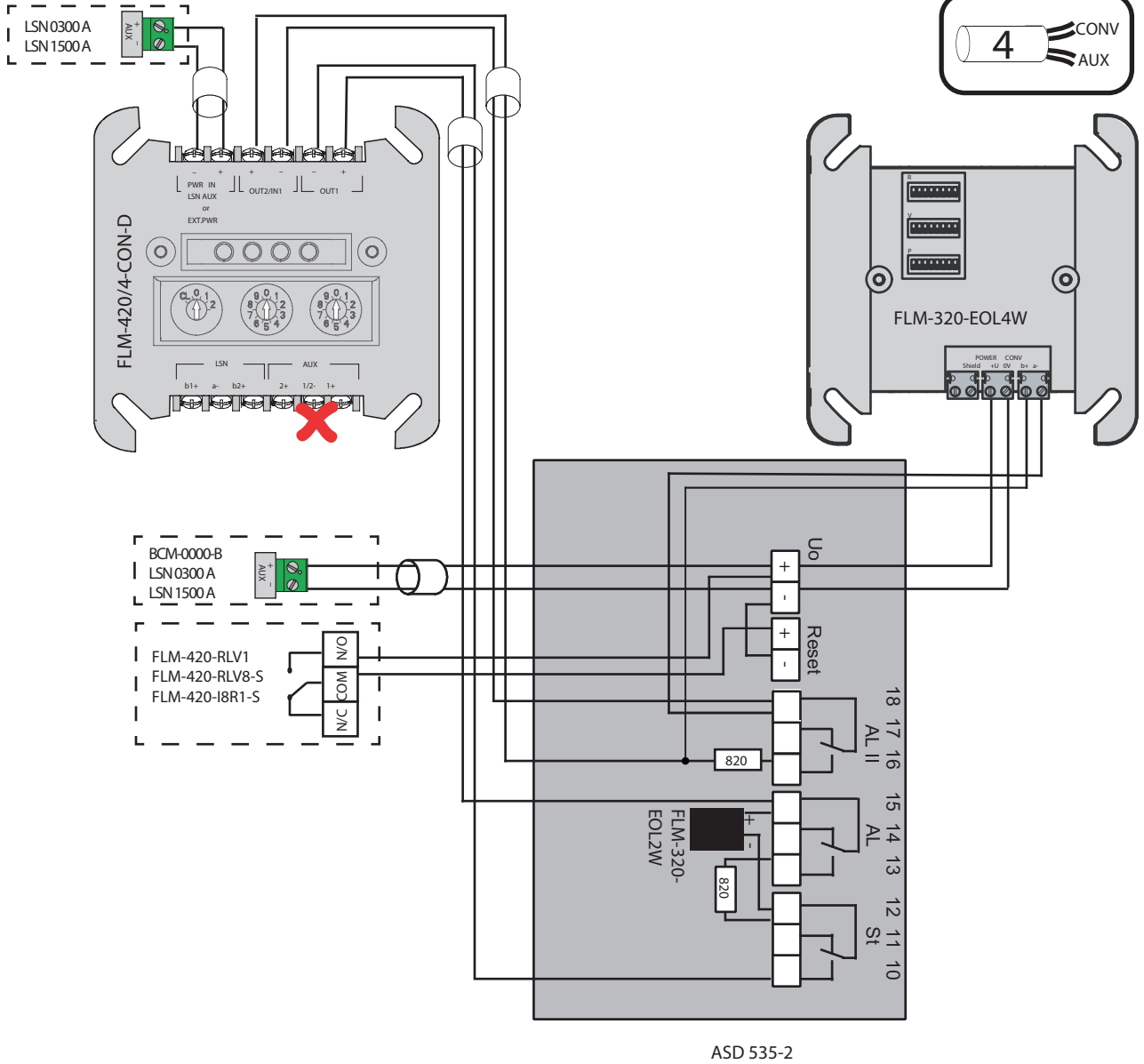
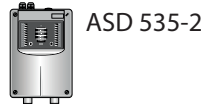






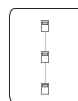
ELS VdS 2489



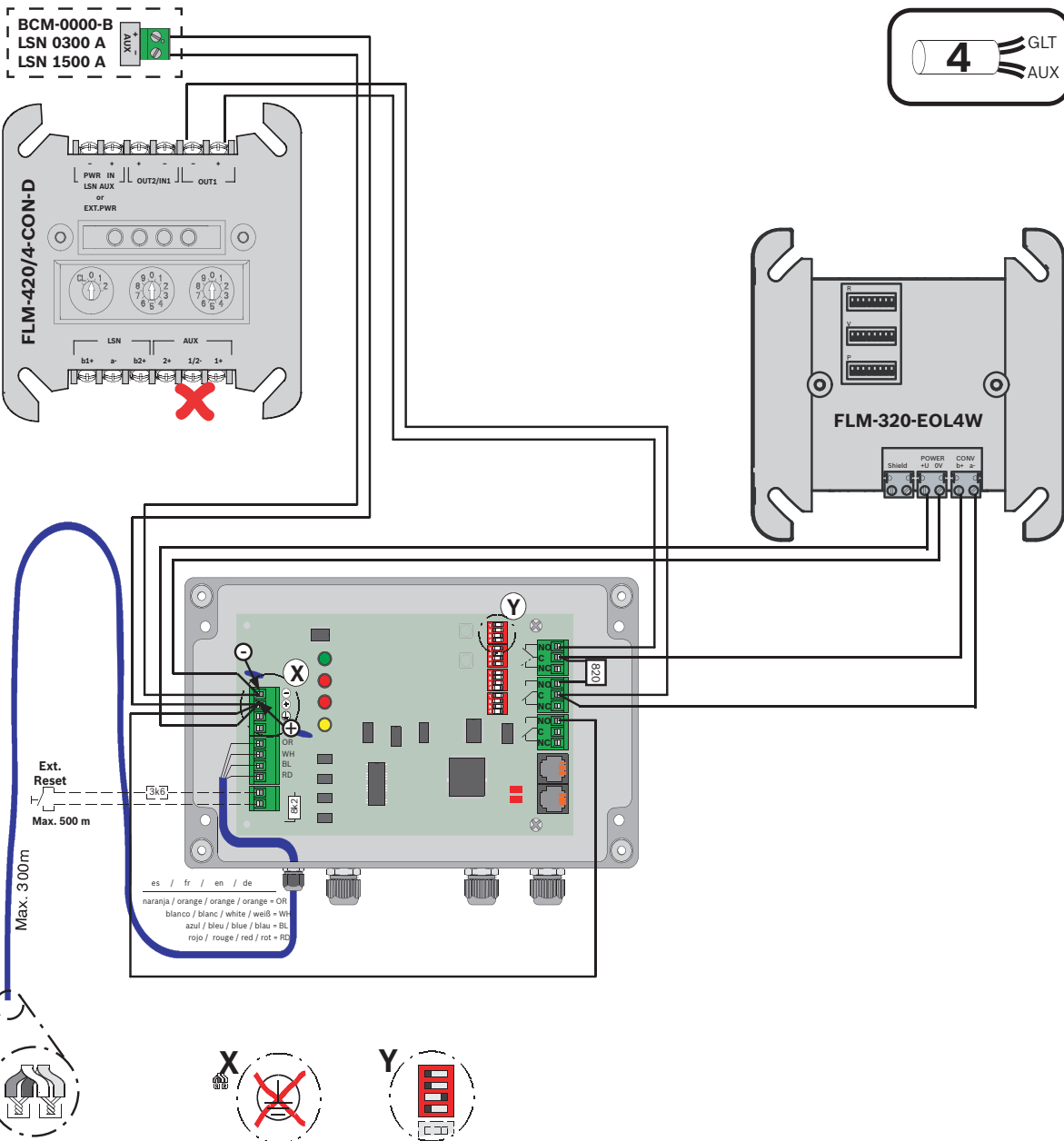


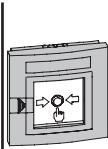
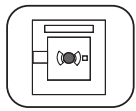


FCS-LWM-1

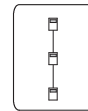


ELS VdS 2489

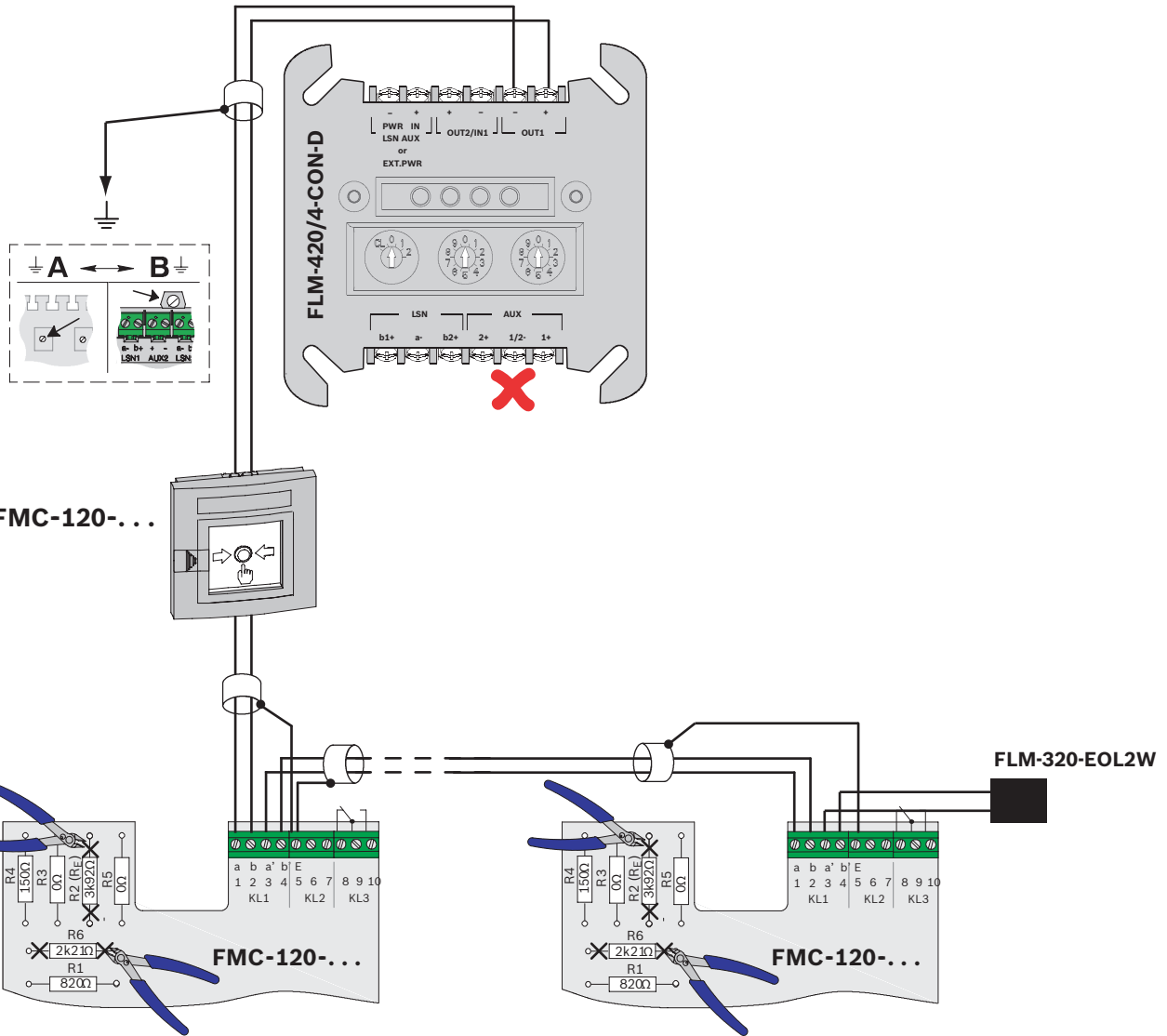




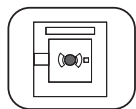
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 FMC-120-DKM-H-R FMC-120-EST-G-B  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B



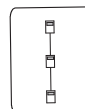
ELS VdS 2489



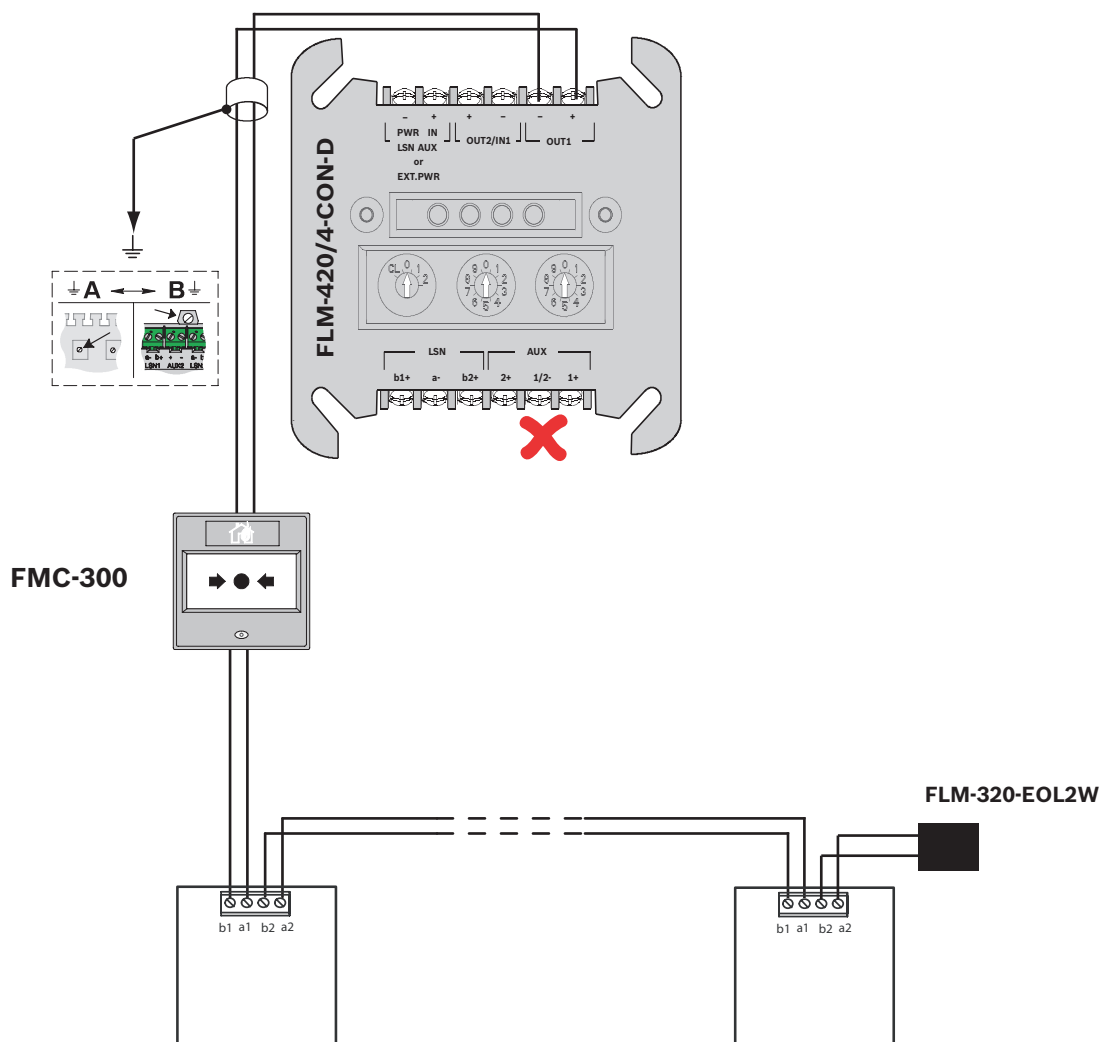




FMC-300



ELS VdS 2489

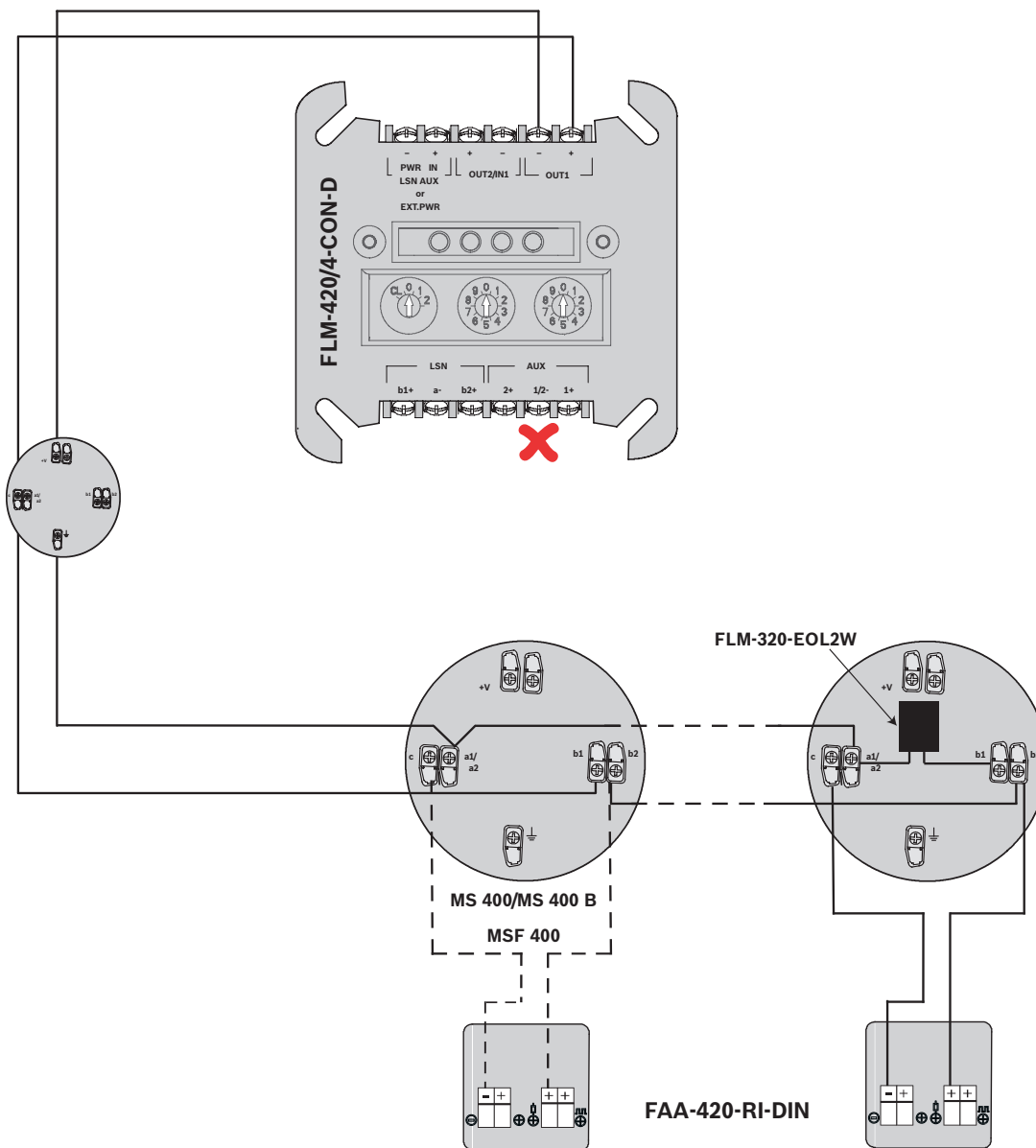




FAP-425-O-O-R/-OT/-OT-R/-T-R  
 FAP-425-DO-R/DOT-R/DOTC-R  
 FCH-320-T320/-T320-R470/-T320-FSA  
 FCP-O320/-O320-R470  
 FCP-OC320/-OC320-R470  
 FCP-OT320/-OT320-R470

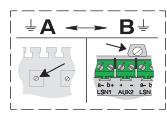
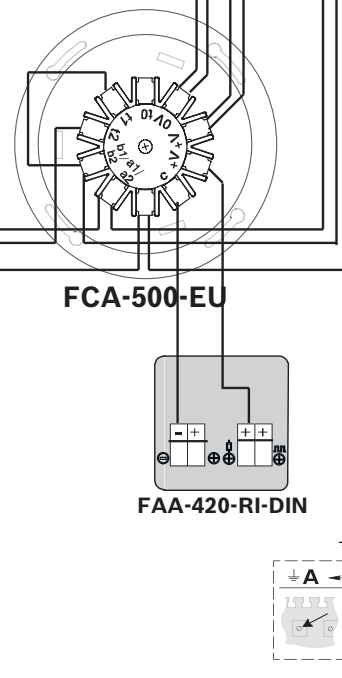
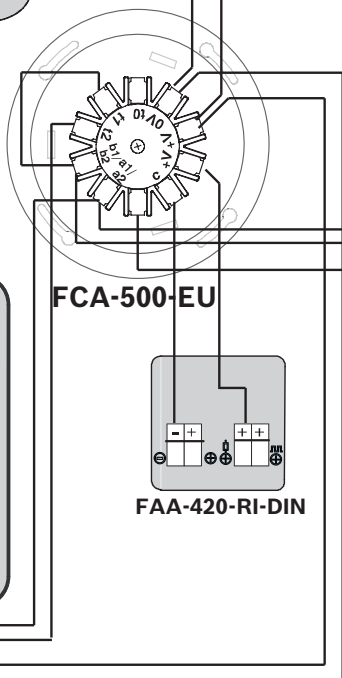
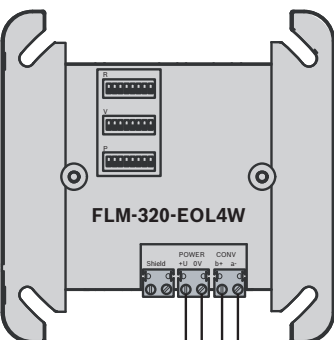
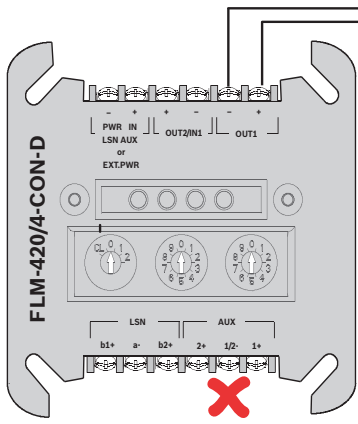
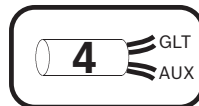


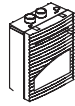
ELS Vds 2489





BCM-0000-B  
LSN 0300 A  
LSN 1500 A





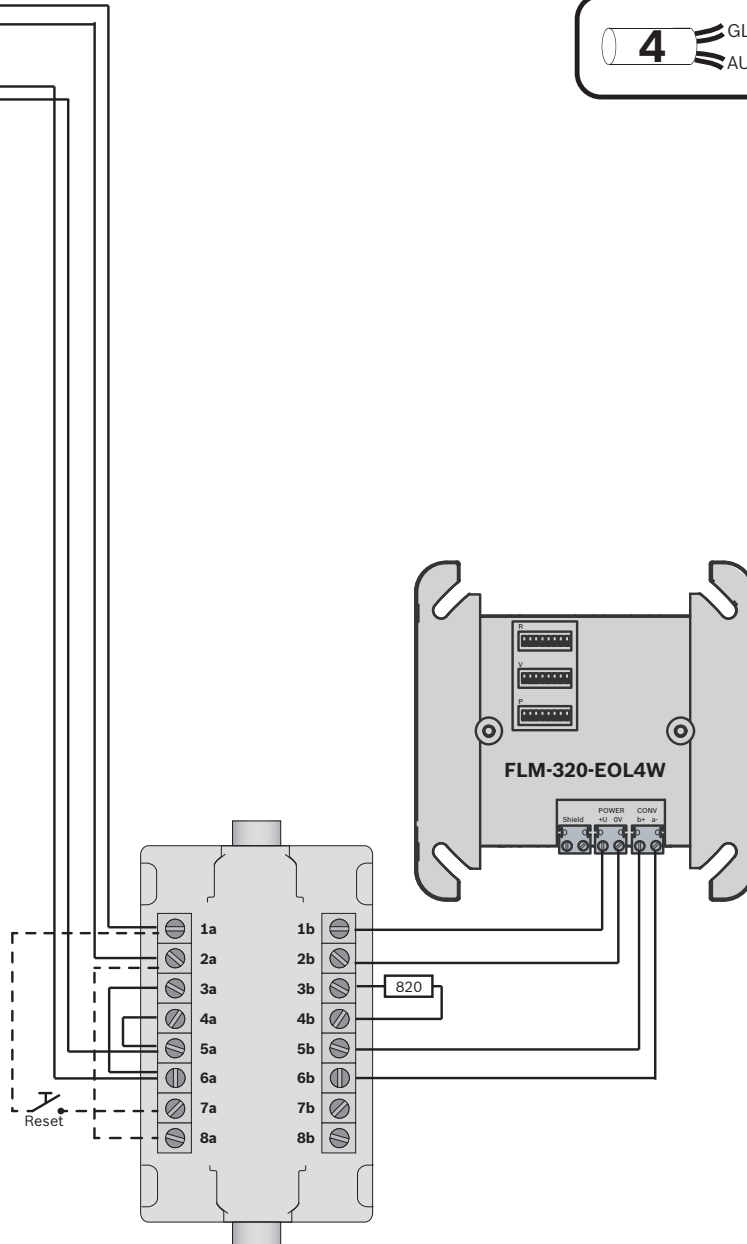
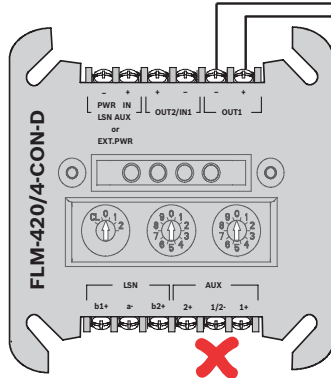
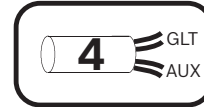
FCS-320-TM Series

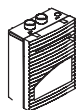


ELS VdS 2489

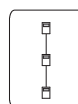


BCM-0000-B  
LSN 0300 A  
LSN 1500 A





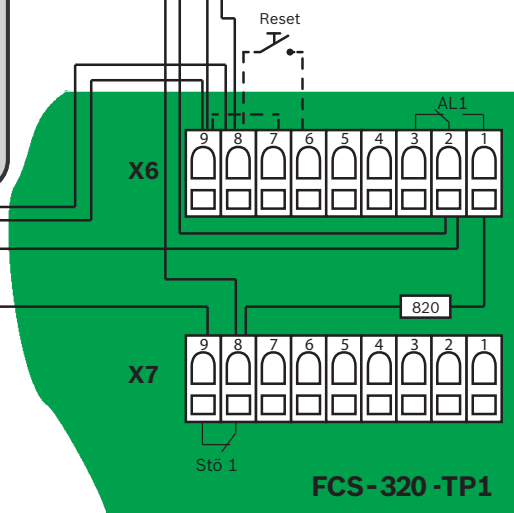
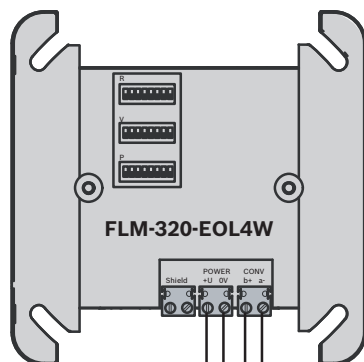
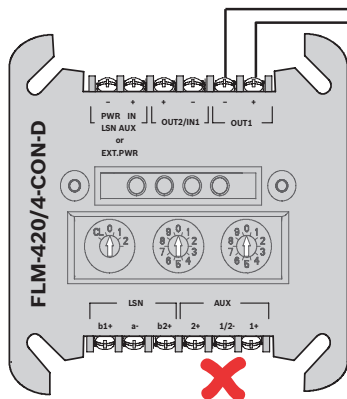
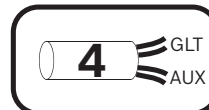
FCS-320-TP Series

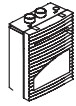


ELS Vds 2489



BCM-0000-B  
LSN 0300 A  
LSN 1500 A



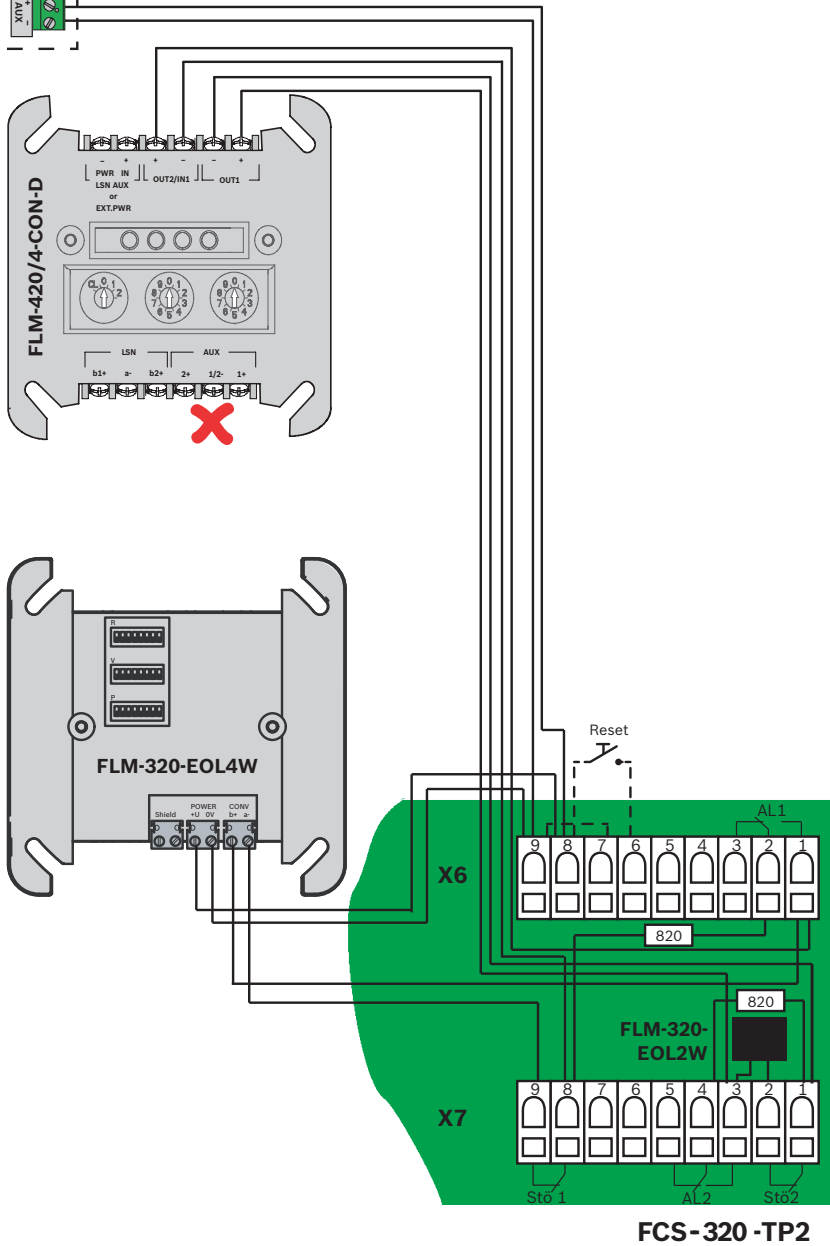
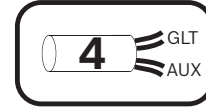


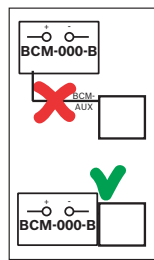
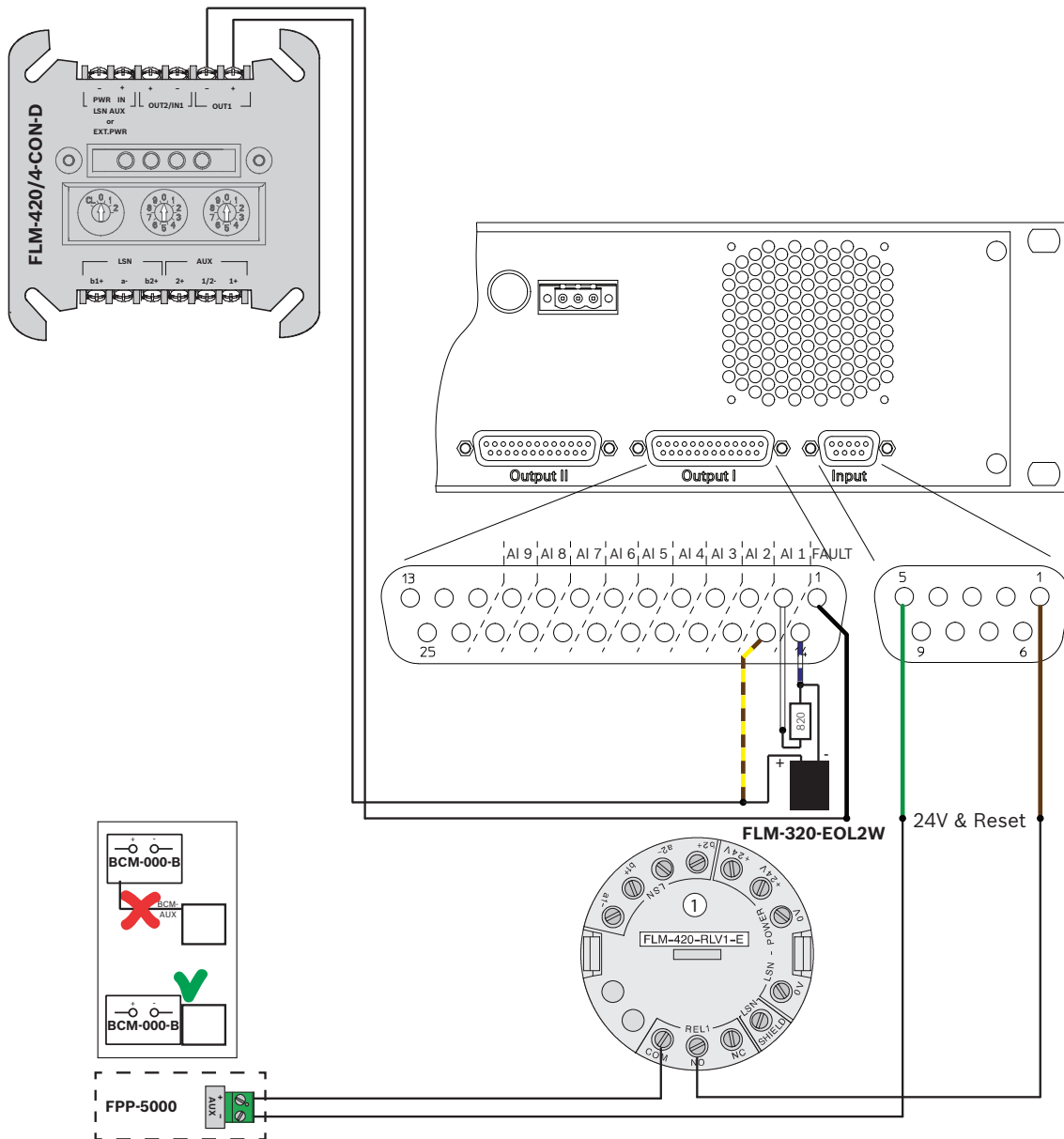
FCS-320-TP Series

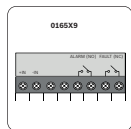


ELS VdS 2489

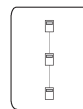
BCM-0000-B  
LSN 0300 A  
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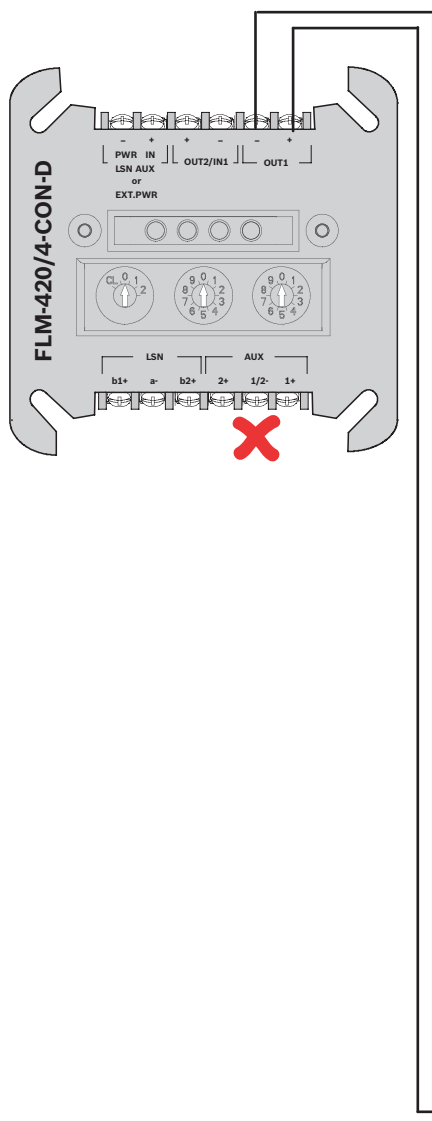




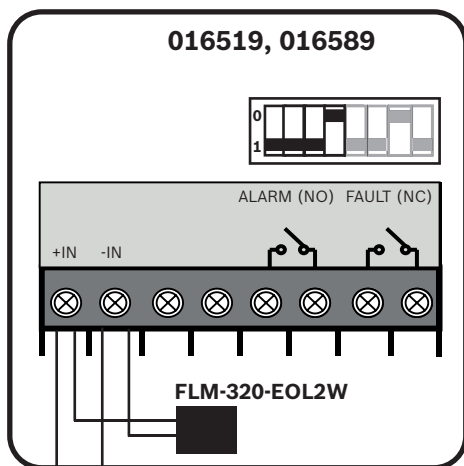
**016519, 016589**  
**IR3 Flame Detector**



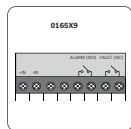
**ELS VdS 2489**



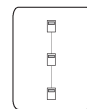
**max. 1 x 0165X9**



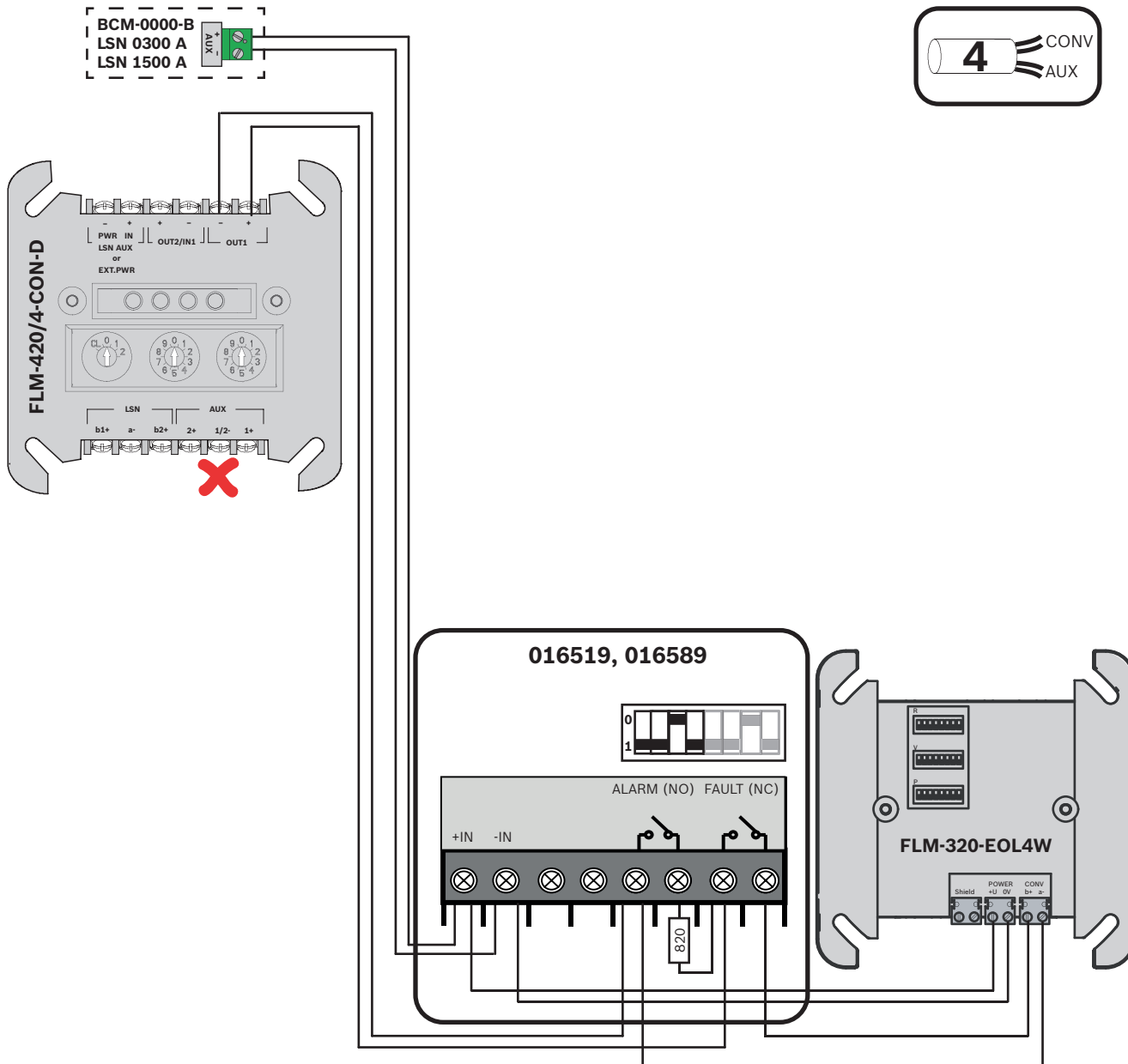




**016519, 016589**  
IR3 Flame Detector

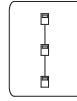


**ELS VdS 2489**

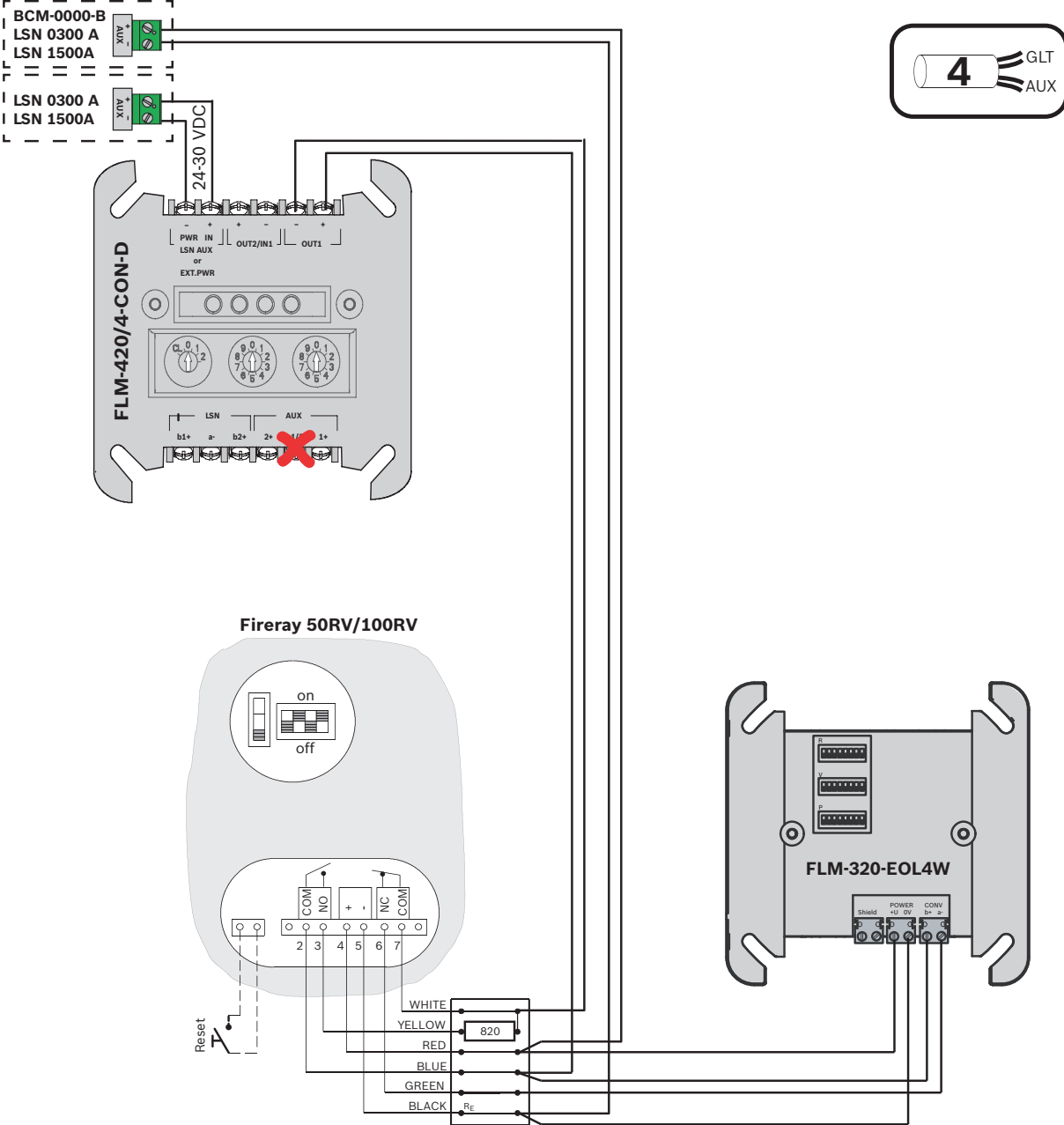


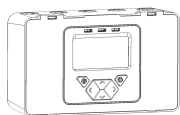


**Fireray 50RV  
Fireray 100RV**



**ELS VdS 2489**





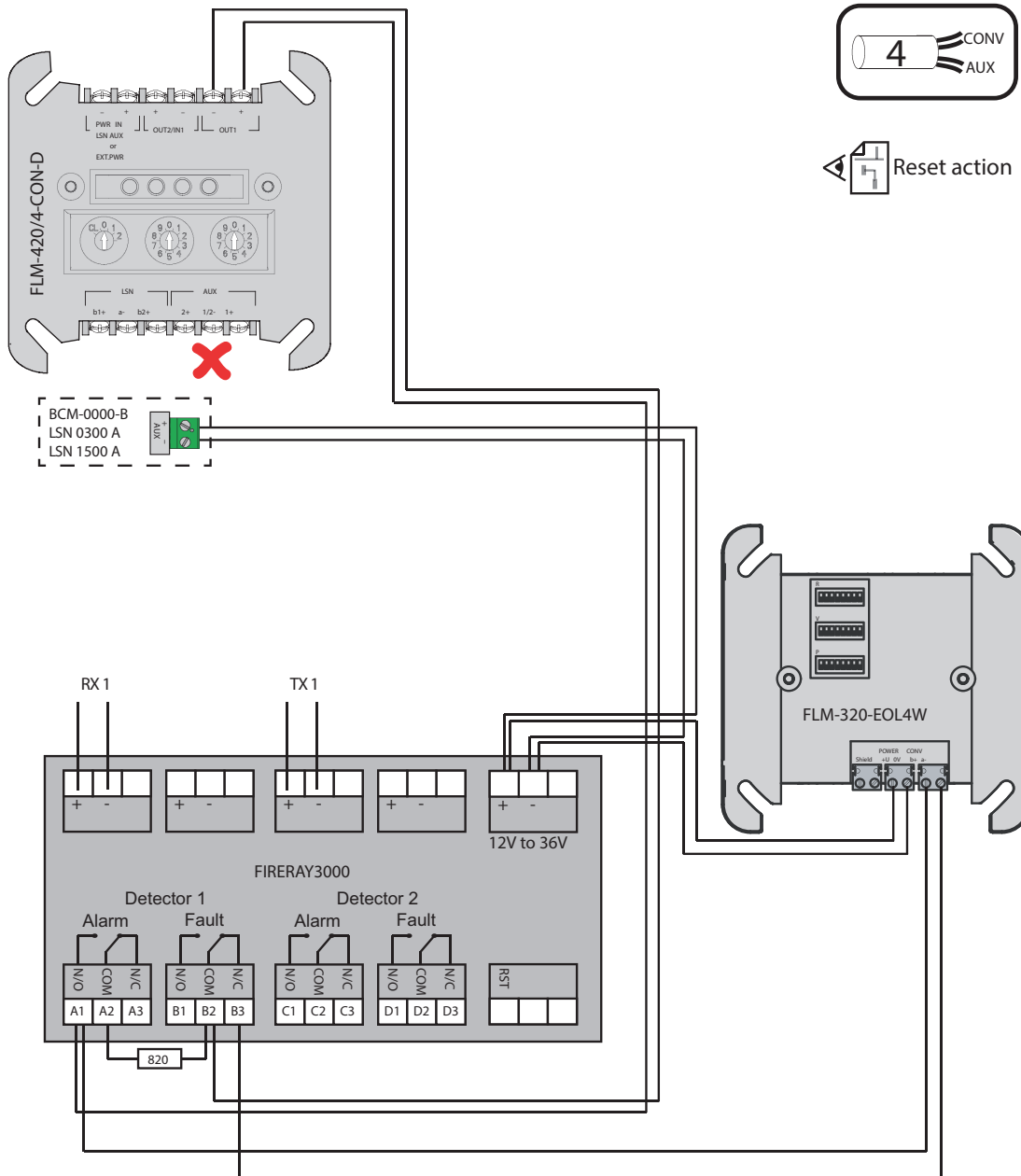
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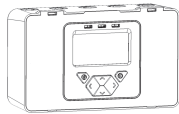
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ELS

VdS 2489





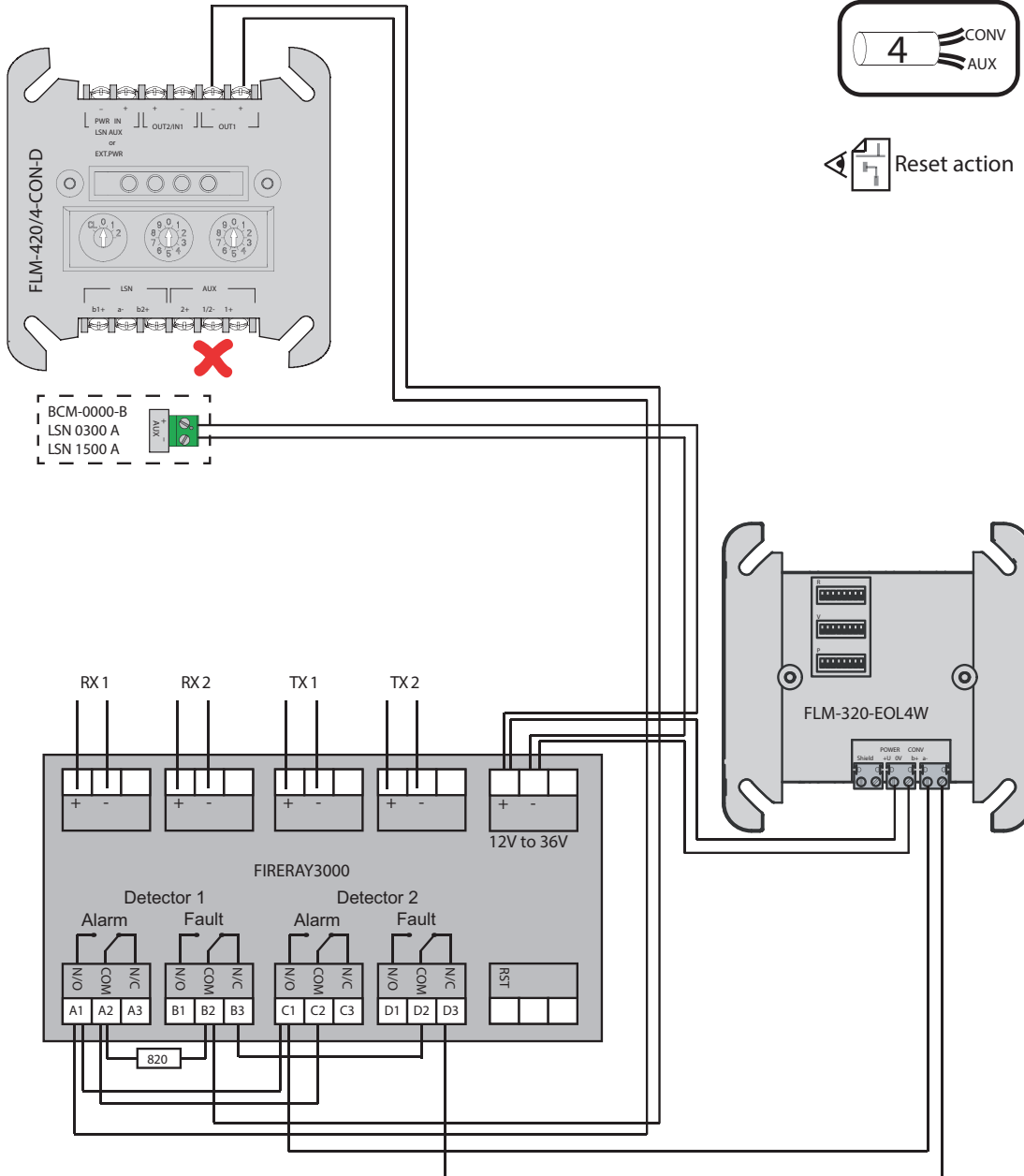
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2 x 1



ELS

VdS 2489

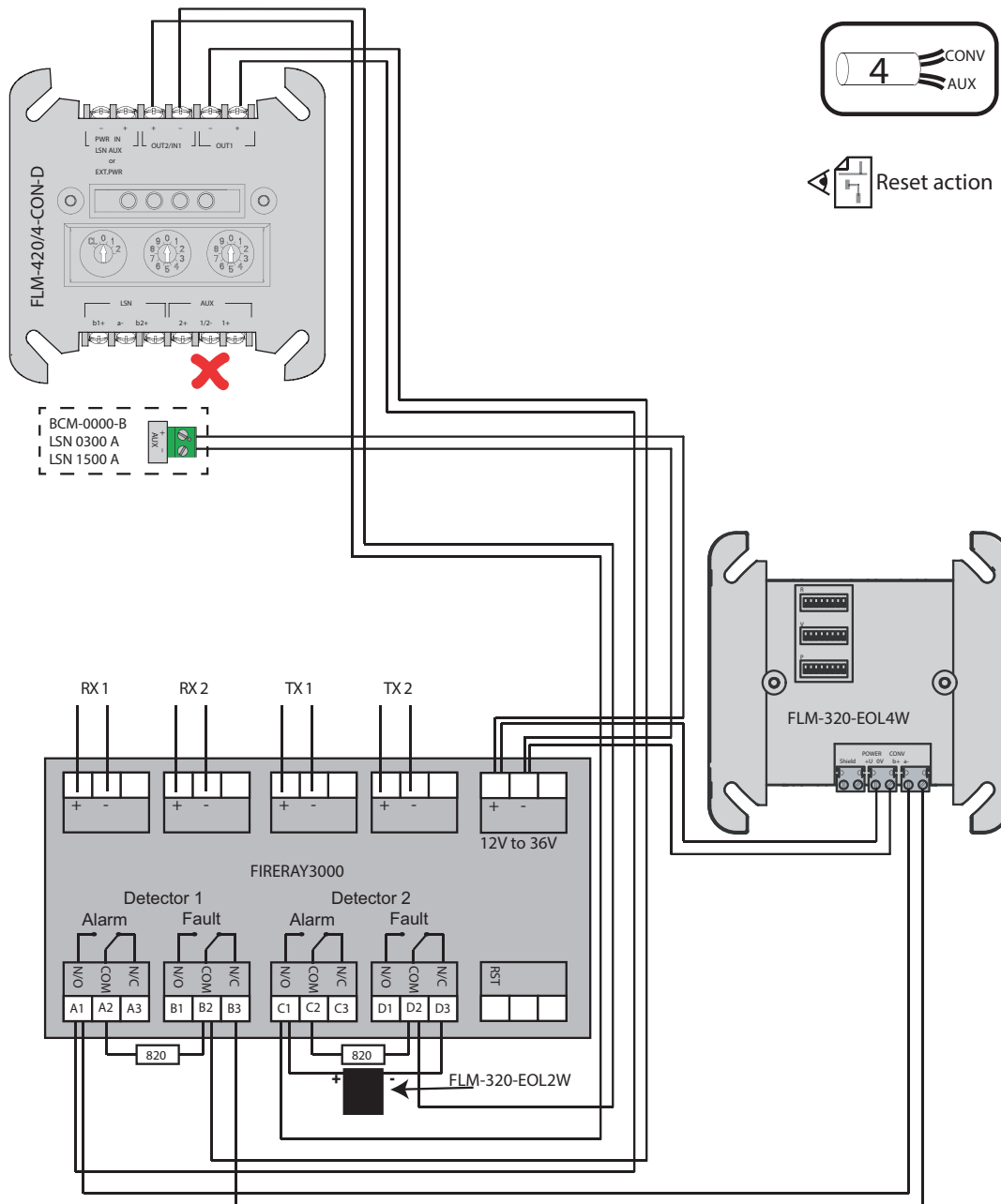


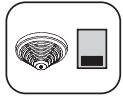


FIRERAY3000  
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ELS VdS 2489



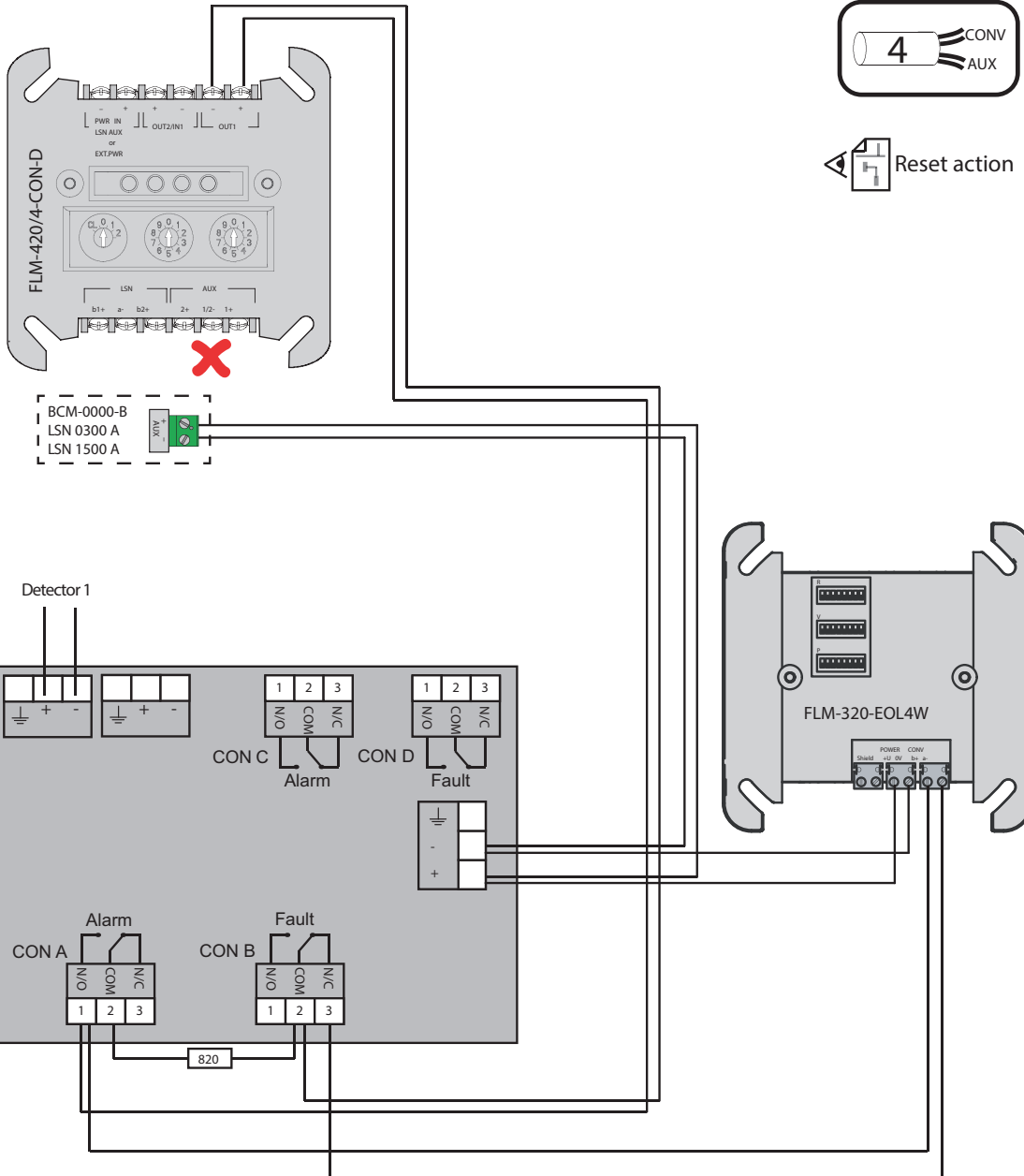


FIRERAY5000

1 x



ELS VdS 2489





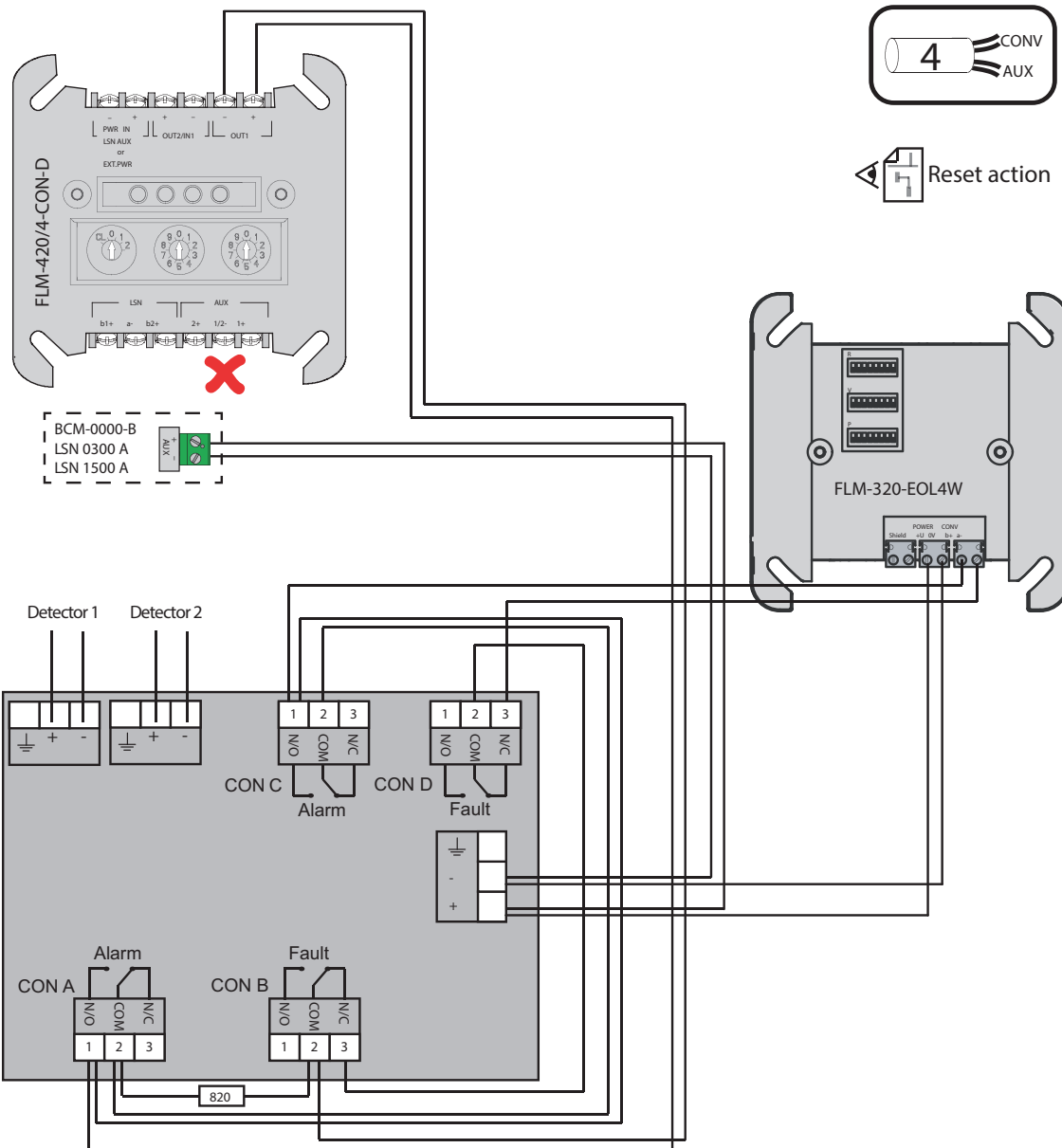
FIRERAY5000

2 x OUT1



ELS

VdS 2489

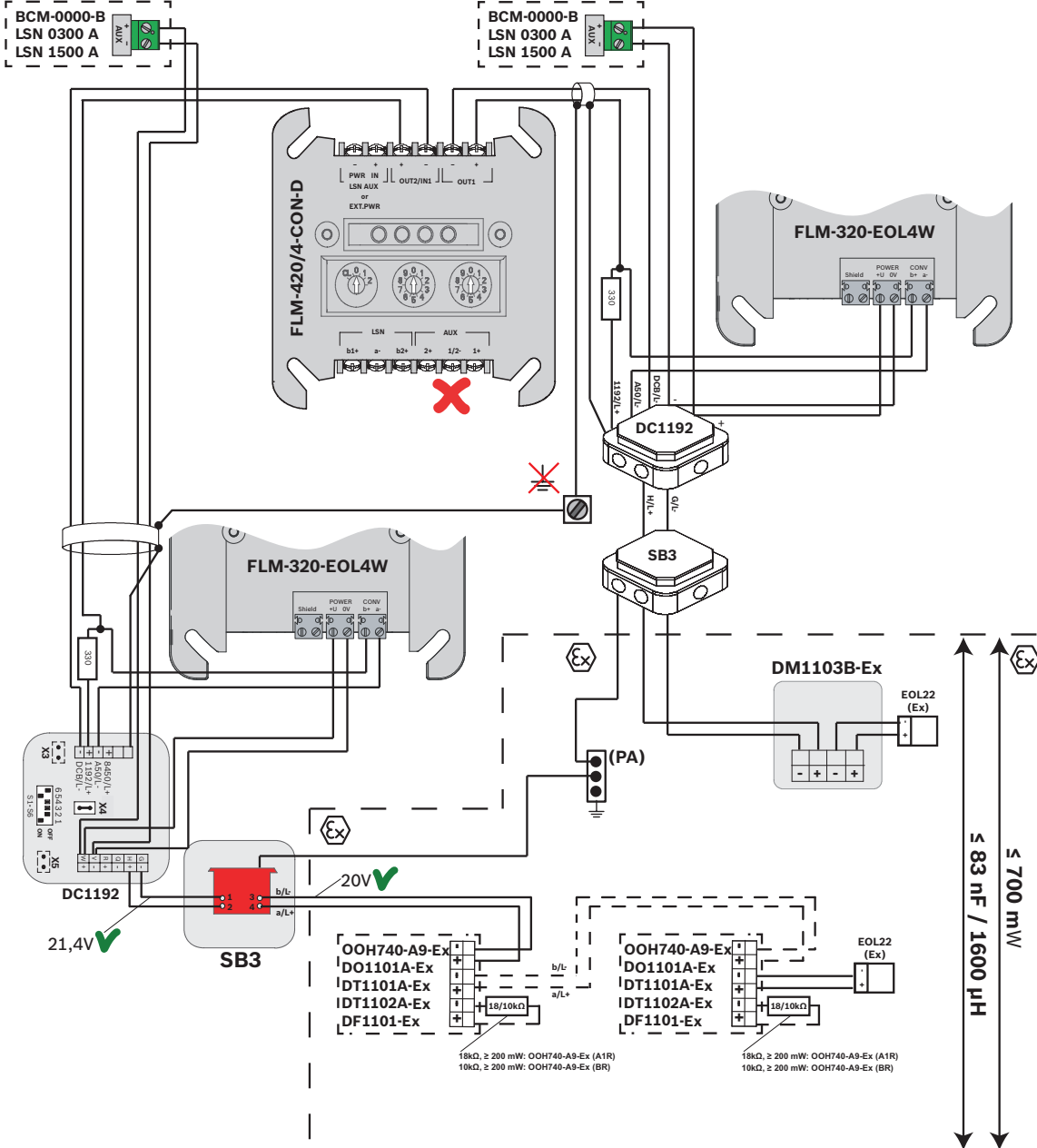




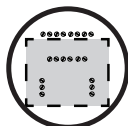
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 OOH740-A9-Ex  
 DO1101A-Ex  
 DT1101A-Ex/DT1102A-Ex  
 DF1101-Ex  
 DM1103B-Ex



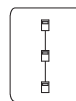
ELS Vds 2489



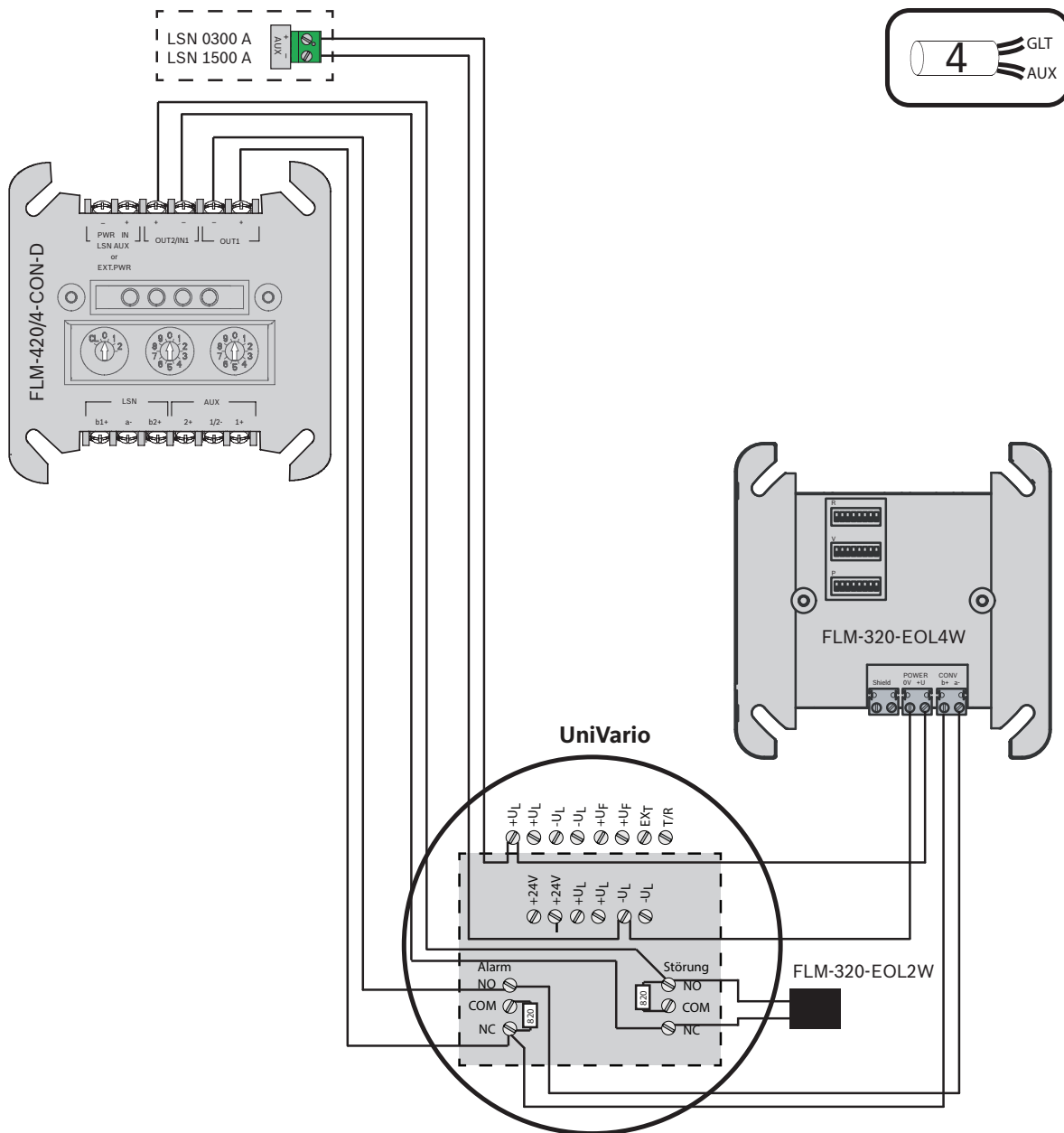




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