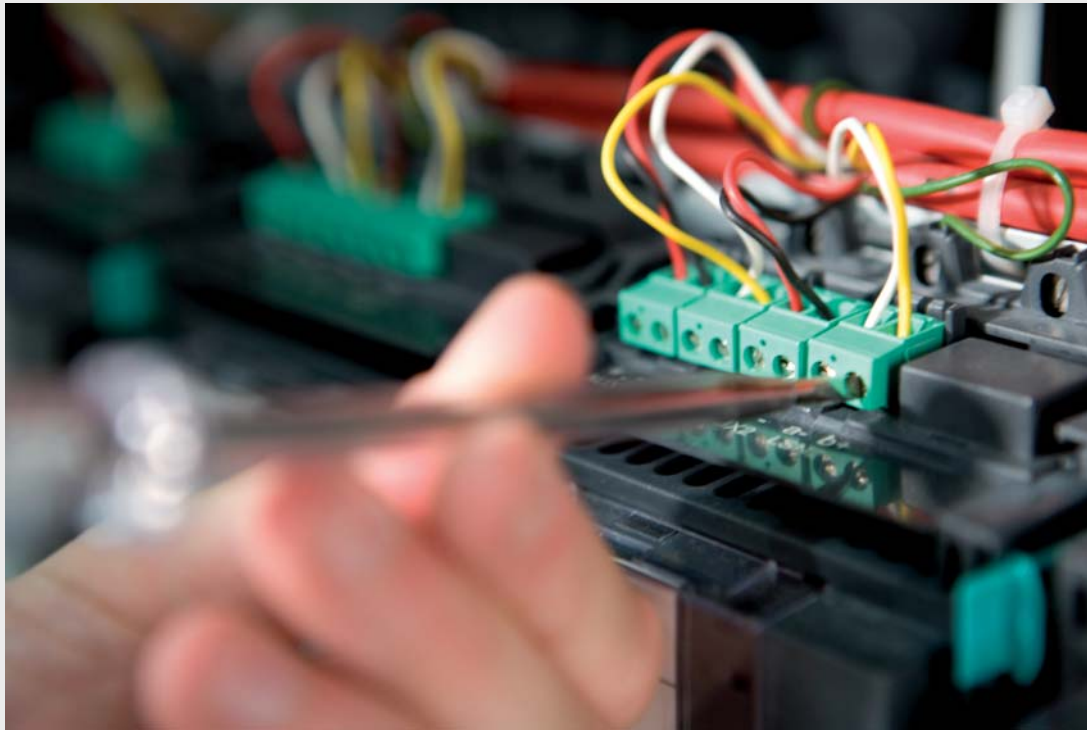




Modular Fire Panel

FPA-5000



BOSCH

en Wiring Guide

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1 Notes

1.1 Content

This wiring manual shows how peripheral devices are connected to the FPA-5000 Fire Panel. Peripheral devices that are no longer included in the product range are covered in "Part 2 - Discontinued Products" of the wiring guide.

**NOTICE!**

The connections laid out in this document also apply to the FPA-1200 Fire Panel, provided that the individual components are Bosch Sicherheitssysteme GmbH-approved extensions of the FPA-1200 Fire Panel.

1.2 Product Information

You can find installation instructions for the individual components of the FPA-5000/FPA-1200 Fire Panels in the enclosed installation guide.

More information is available on the Internet at:

- www.boschsecurity.com

1.3 Important Notes

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

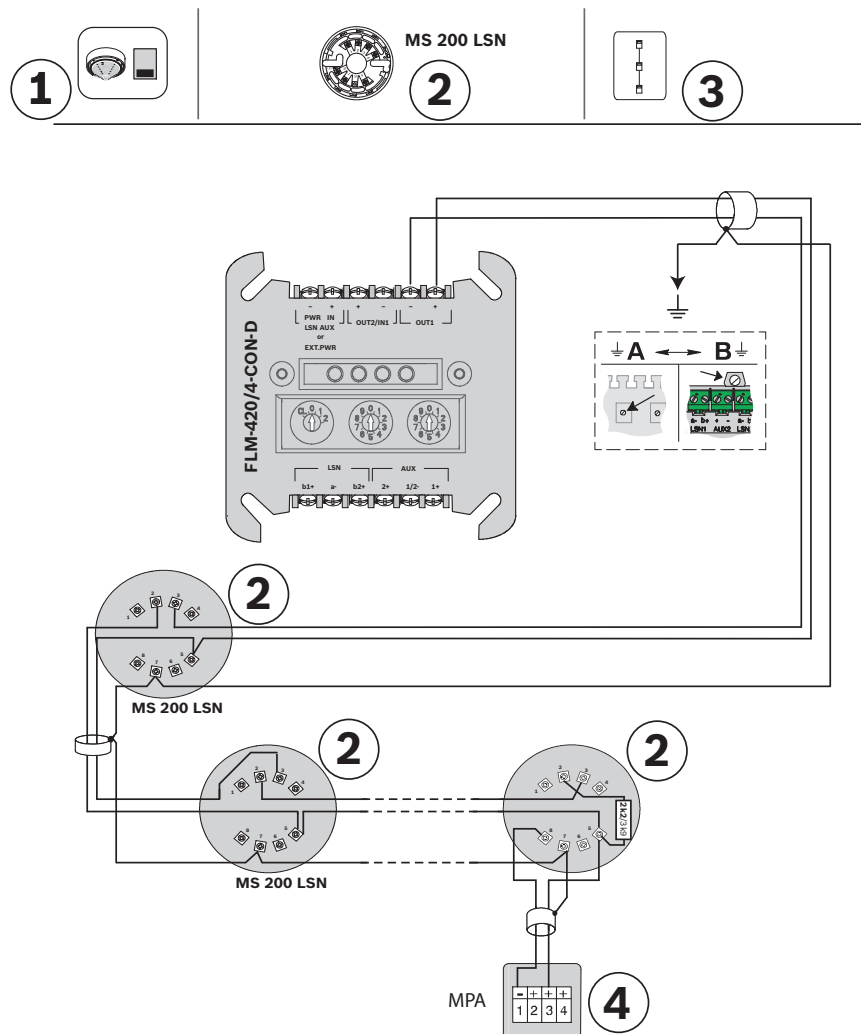
**DANGER!**

Touching live components can be fatal.

Disconnect the power supply before carrying out installation.

1.4 User Notes

The connections in this wiring guide are structured as follows.



1.4.1 Chapter Symbols

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

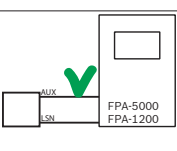
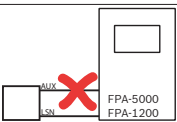
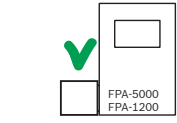
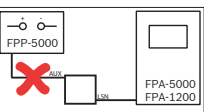
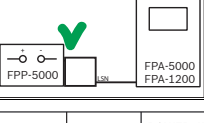
1.4.2 Connection Symbols

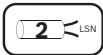
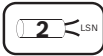
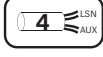
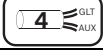
	Monitored/ not monitored		With/without feedback		Areas with danger of explosion
	Redundancy		Synchronization		Loop wiring
	Loop wiring with redundant element		Stub wiring		Redundant stub wiring
	Stub wiring with redundant element		Redundant stub wiring with redundant element		Standalone panel
	Standalone panel with redundancy	EN54-2, EN54-13 etc.	If compliance with this standard is required, please use the specified wiring		
-----	Optional wiring		Mandatory wiring		

1.4.3 Optional Components

1 ... n	Connecting other devices
	Additional power supply

1.4.4 Power Supply and Wiring

	Power supply via the panel The power supply may be separate from the element.									
 	Power supply via the panel The element is supplied with power by the panel. The element must be mounted flush with the panel.									
 	External power supply The element is supplied externally. The external power supply must be flush with the element.									
<table><tr><td>①</td><td>POWER IN OUT</td><td>POWER IN OUT II</td></tr><tr><td>AUX </td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>	①	POWER IN OUT	POWER IN OUT II	AUX 						For FLM-420-08I2: The power supply to the two open collector output groups is provided by the panel.
①	POWER IN OUT	POWER IN OUT II								
AUX 										
										
<table><tr><td>②</td><td>POWER IN OUT I</td><td>POWER IN OUT II</td></tr><tr><td>AUX </td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>	②	POWER IN OUT I	POWER IN OUT II	AUX 						For FLM-420-08I2: The power supply to the two open collector output groups is provided externally.
②	POWER IN OUT I	POWER IN OUT II								
AUX 										
										

	The wiring is a 2-wire connection.
	
	The wiring is a 4-wire connection.
	
	Due to the system, the AUX connection according to EN54-13 is not allowed.

1.5

Resistance Values

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

Color	1. Loop	2. Loop	3. Loop	4. Loop (multiplier)	5. Loop (tolerance)
Silver				10^{-2}	
Gold				10^{-1}	
Black		0	0	10^0	
Brown	1	1	1	10^1	±1%
Red	2	2	2	10^2	±2%
Orange	3	3	3	10^3	
Yellow	4	4	4	10^4	
Green	5	5	5	10^5	±0.5%
Blue	6	6	6	10^6	±0.25%
Purple	7	7	7	10^7	±0.1%
Gray	8	8	8	10^8	±0.05%
White	9	9	9	10^9	

In accordance with IEC Publ. 62/DIN 41429

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

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

1.6

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1.7

History

1.7.1

12.0 -> 12.1

Changes

Analog-Modem -> FPA-500, CPA 0000 A added
Modem Teleservice -> FPA-500, CPA 0000 A added
FCP-500/FCP-520 -> CZM 0004 A CTN changed
4-wire -> LSN 0300 A, EN54-13 changed
IOP 008 A, max. length changed to 3m
FCP-500/FCP-520 -> FLM-420/4-CON CTN changed
FMC-300-RW -> FLM-420/4-CON CTN changed
Plena -> FLM-420-RLV1 feedbackline added
Plena -> FLM-420-RLV8 feedbackline added
Fray5000 -> CZM 0004 A Reset added
Fray5000 -> FLM-420/4-CON Reset added
Fireray 2000 -> CZM 0004 A, EN54-13 - Reset added
Fireray 2000 -> FLM-420/4-CON EN54-13 - Reset added
FCS-320-TP -> CZM 0004 A EN54-13 - Reset added
FCS-320-TP -> FLM-420/4-CON EN54-13 - Reset added
FCS-320-TM -> CZM 0004 A EN54-13 - Reset added
FCS-320-TM -> FLM-420/4-CON EN54-13 - Reset added
EN54-13: Symbol for 2-wire and 4-wire added

Deleted

FPP-5000 -> FLM420-I2-D 2x
FPP-5000 -> FLM420-I2-EW 2x
MSS 400 LSN -> LSN 0300 A (EN54-13) 4x

Outphased

SM 210 LSN RW -> LSN 0300 A
BL1 -> NZM 0002 A 2x
BL200 -> NZM 0002 A 2x
SG200 -> NZM 0002 A 2x
F732 -> FLM-420/4-CON
ORM130 -> FLM-420/4-CON
MS94 -> FLM-420/4-CON
S/Z 2406 -> FLM-420/4-CON
DKM/SKM -> FLM-420/4-CON
BL200 -> FLM-420-NAC 2x
SG200 -> FLM-420-NAC
DKM 120/SKM 120 -> CZM 0004 A
NMS 100 LSN -> LSN 0300 A

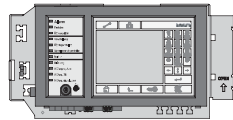
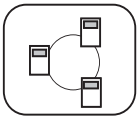
New

FMC-420RW -> LSN 0300 A
MPC-xxx-B -> AT2000 + CPA 0000 A
FNS-320 -> NZM 0002 A 2x
FNM-320 -> NZM 0002 A 2x
FNS-320 -> FLM-420-NAC 2x
FNM-320 -> FLM-420-NAC
FNM-320V -> FLM-420-NAC
FNM-320V -> NZM 0002 A
FNM-320V -> FLM-420-RLV1

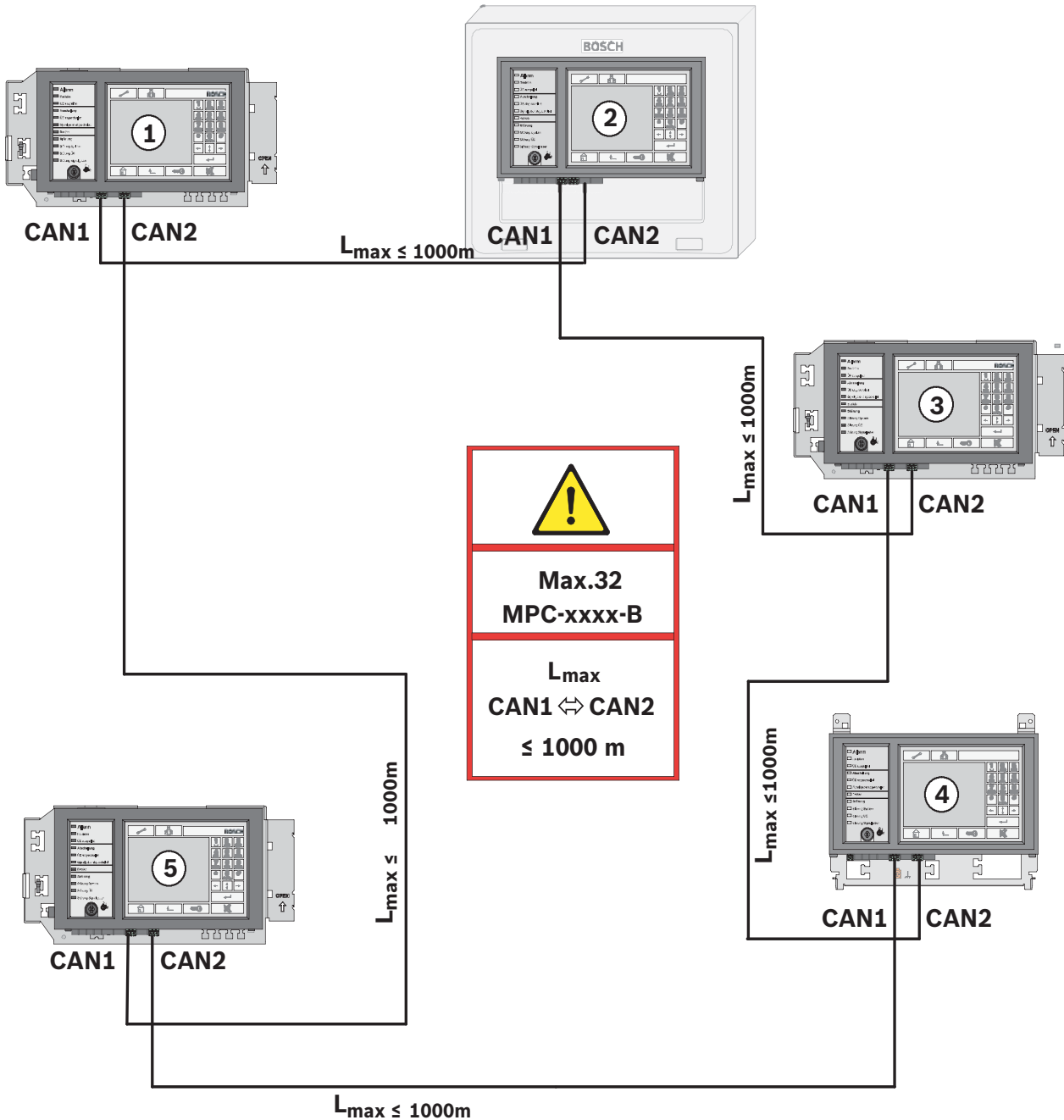
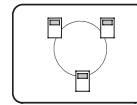
FCS-320-TM -> CZM 0004 A
FCS-320-TM -> FLM-420/4-CON
FCS-320-TP -> CZM 0004 A
FCS-320-TP -> FLM-420/4-CON
ATG 100 LSN -> LSN 0300 A EN54-13 2x
FAS-420 -> LSN 0300 A EN54-13
FAS-420-TM -> LSN 0300 A EN54-13
FAS-420-TM -> LSN 0300 A BCM-AUX EN54-13
FBF 100 LSN -> LSN 0300 A EN54-13 2x
FK 100 LSN -> LSN 0300 A EN54-13 2x
FLM-420/4-CON -> LSN 0300 A EN54-13 2x
FLM-420-NAC -> LSN 0300 A EN54-13 2x
MSS 400 LSN -> LSN 0300 A EN54-13 2x
FCA-500-EU -> FLM-420/4-CON EN54-13
ADW 511 A -> FLM-420/4-CON EN54-13
FCS-320-TM -> FLM-420/4-CON EN54-13
FCS-320-TP1 -> FLM-420/4-CON EN54-13
FCS-LWM-1 -> FLM-420/4-CON EN54-13
Fireray50RV/100RV -> FLM-420/4-CON EN54-13
Fireray2000 -> FLM-420/4-CON EN54-13
FRay5000-50 -> FLM-420/4-CON EN54-13
DCA1192_SB3/DM_1103B-X/DO1101A-EX/DF1101A-EX/Typ_K -> FLM-420-4-CON EN54-13
FCA-500-EU -> CZM 0004 A EN54-13
FCS-320-TM -> CZM 0004 A EN54-13
FCS-320-TP1 -> CZM 0004 A EN54-13
FCS-LWM-1 -> CZM 0004 A EN54-13
Fireray50RV/100RV -> CZM 0004 A EN54-13
Fireray2000 -> CZM 0004 A EN54-13
FRay5000 -> CZM 0004 A EN54-13
DS 10 -> NZM 0002 A EN54-13 2x
FNM-320 -> NZM 0002 A EN54-13
FNS-320 -> NZM 0002 A EN54-13
MSS 300-SA -> NZM 0002 A EN54-13
PB 2005 -> NZM 0002 A EN54-13
DS10 -> FLM-420-NAC-D EN54-13
FNM-320 -> FLM-420-NAC-D EN54-13
FNM-320V -> FLM-420-NAC-D EN54-13
FNM-320V -> NZM 0002 A EN54-13
FNS-320 -> FLM-420-NAC-D EN54-13
FPP-5000 -> FLM-420-NAC-D EN54-13
MSS 300-SA -> FLM-420-NAC-D EN54-13
PB 2005 -> FLM-420-NAC-D EN54-13
FPP-500-TI13 -> LSN
MPC-xxx-B + EKS d-light DL-CAN 2x

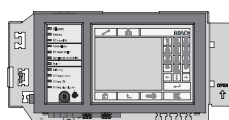
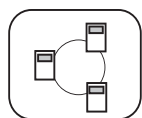
2 Wiring

2.1 Networking

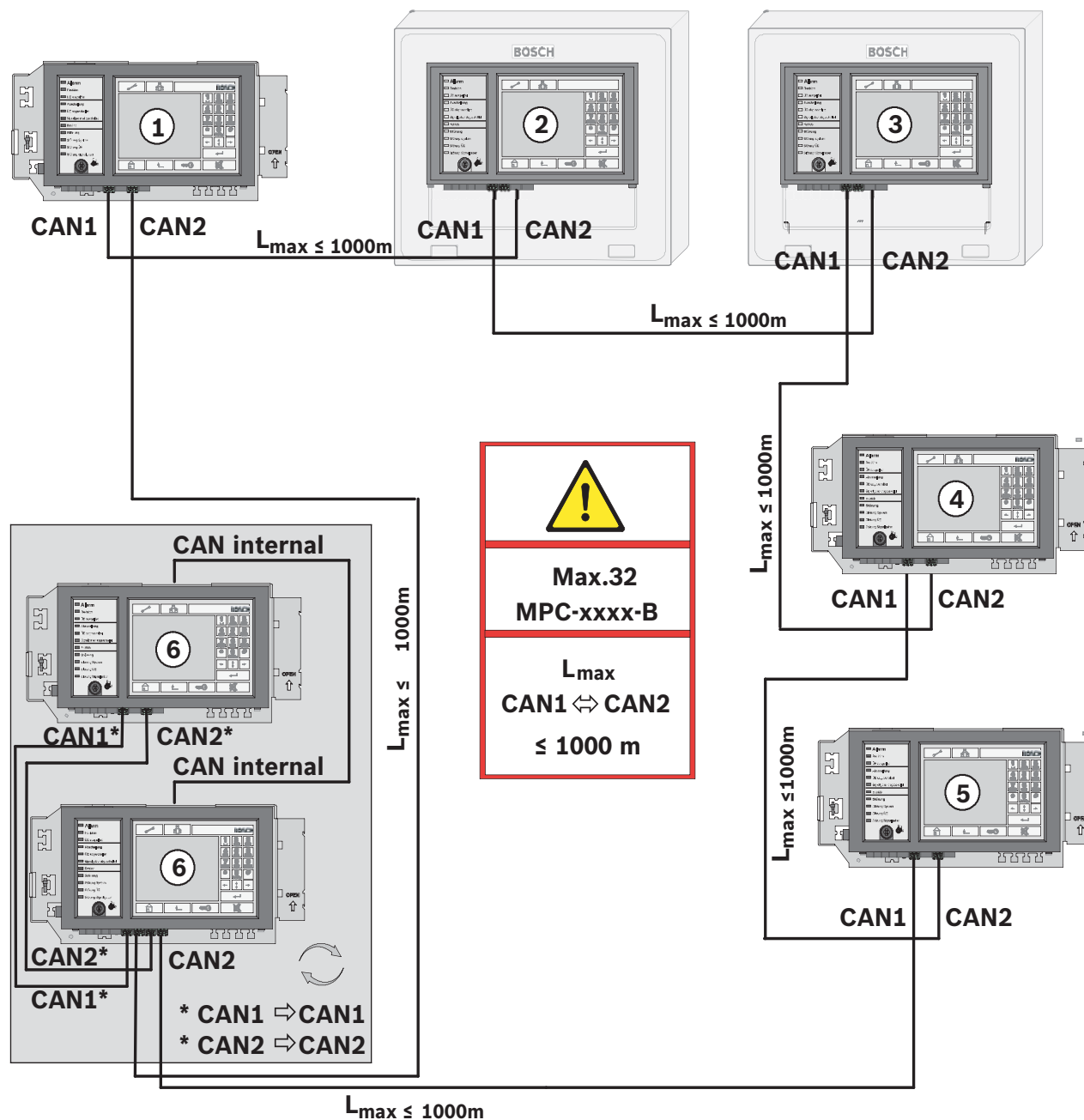
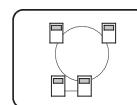


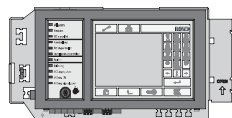
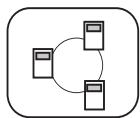
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FMR-5000-xx**



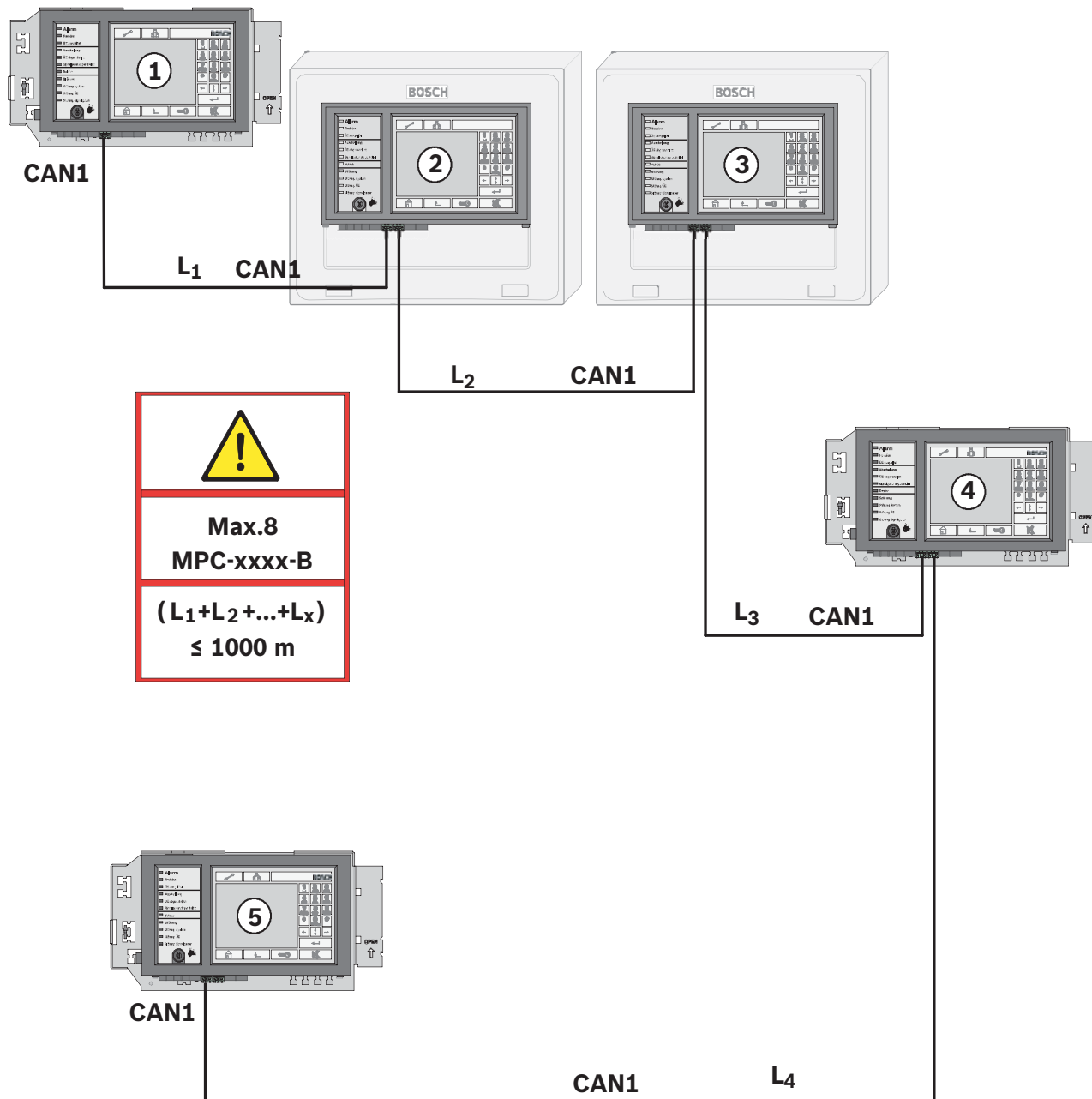
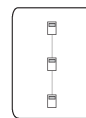


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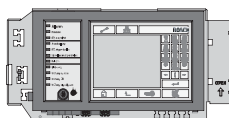
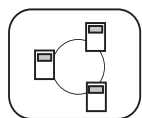


**MPC-xxxx-B
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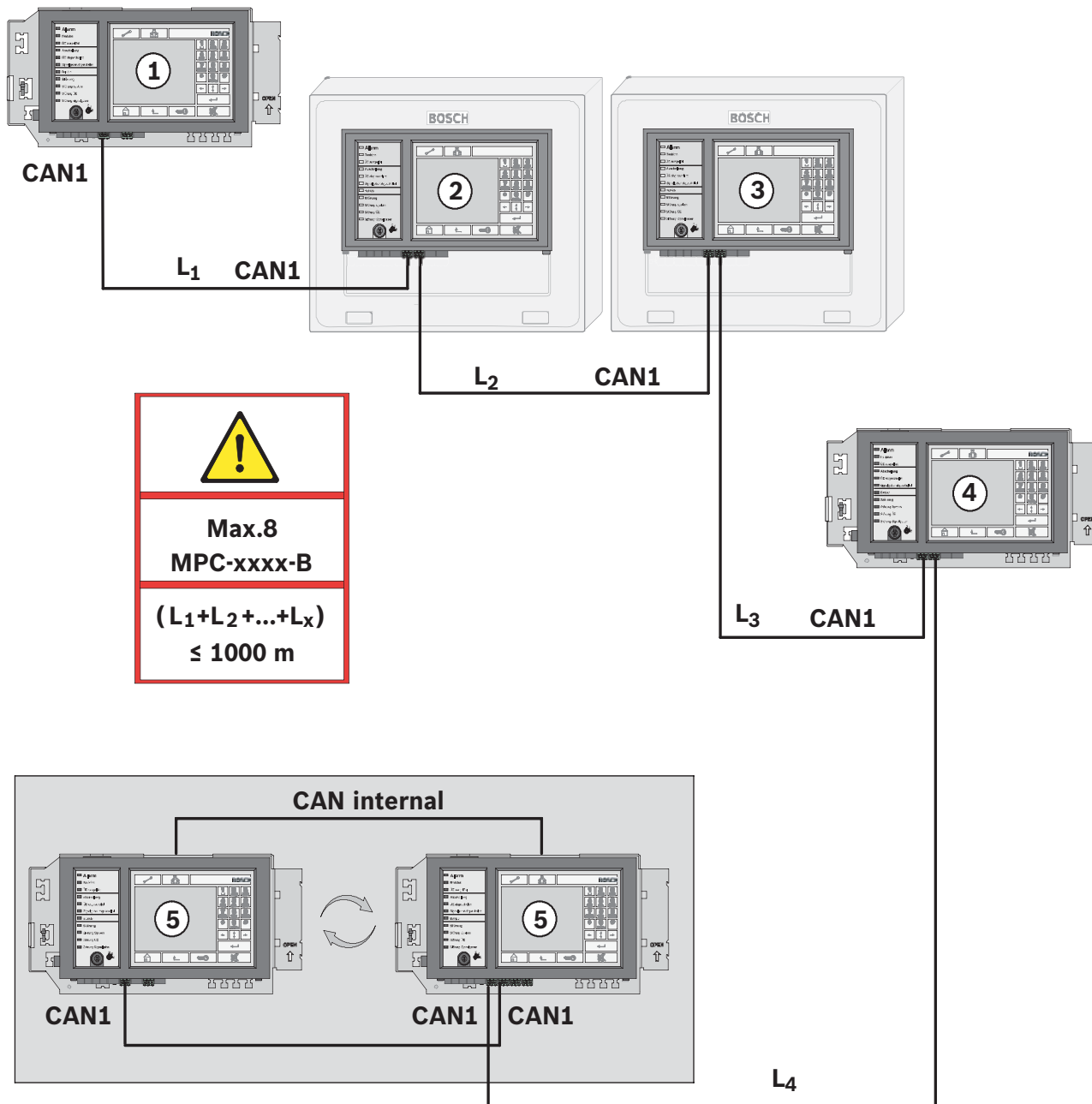
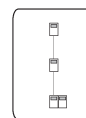


FPA-5000 ✓

FPA-1200 ✗



**MPC-xxxx-B
FMR-5000-xx**

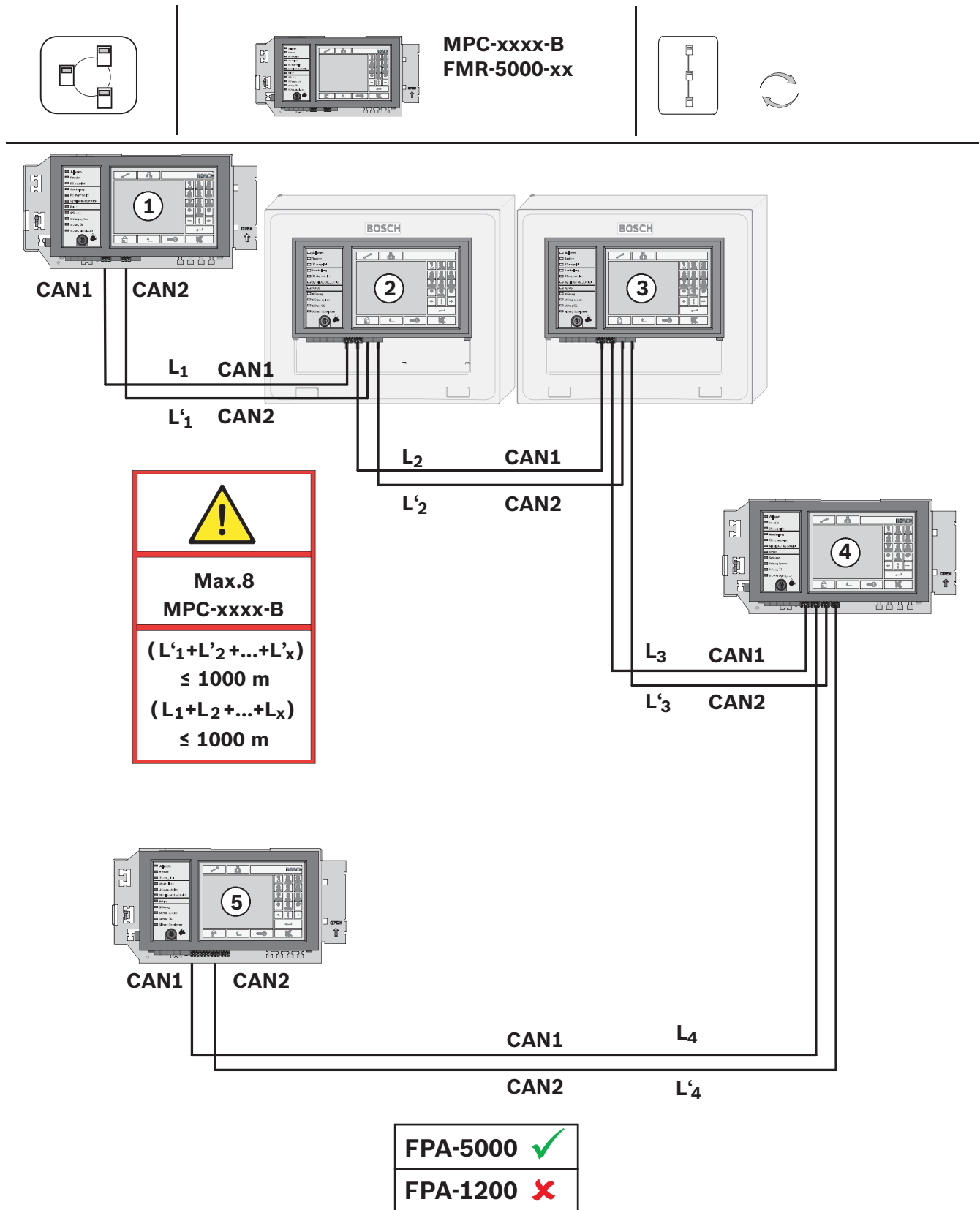


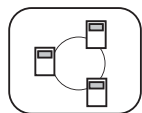
**Max.8
MPC-xxxx-B**

**(L₁+L₂+...+L_x)
≤ 1000 m**

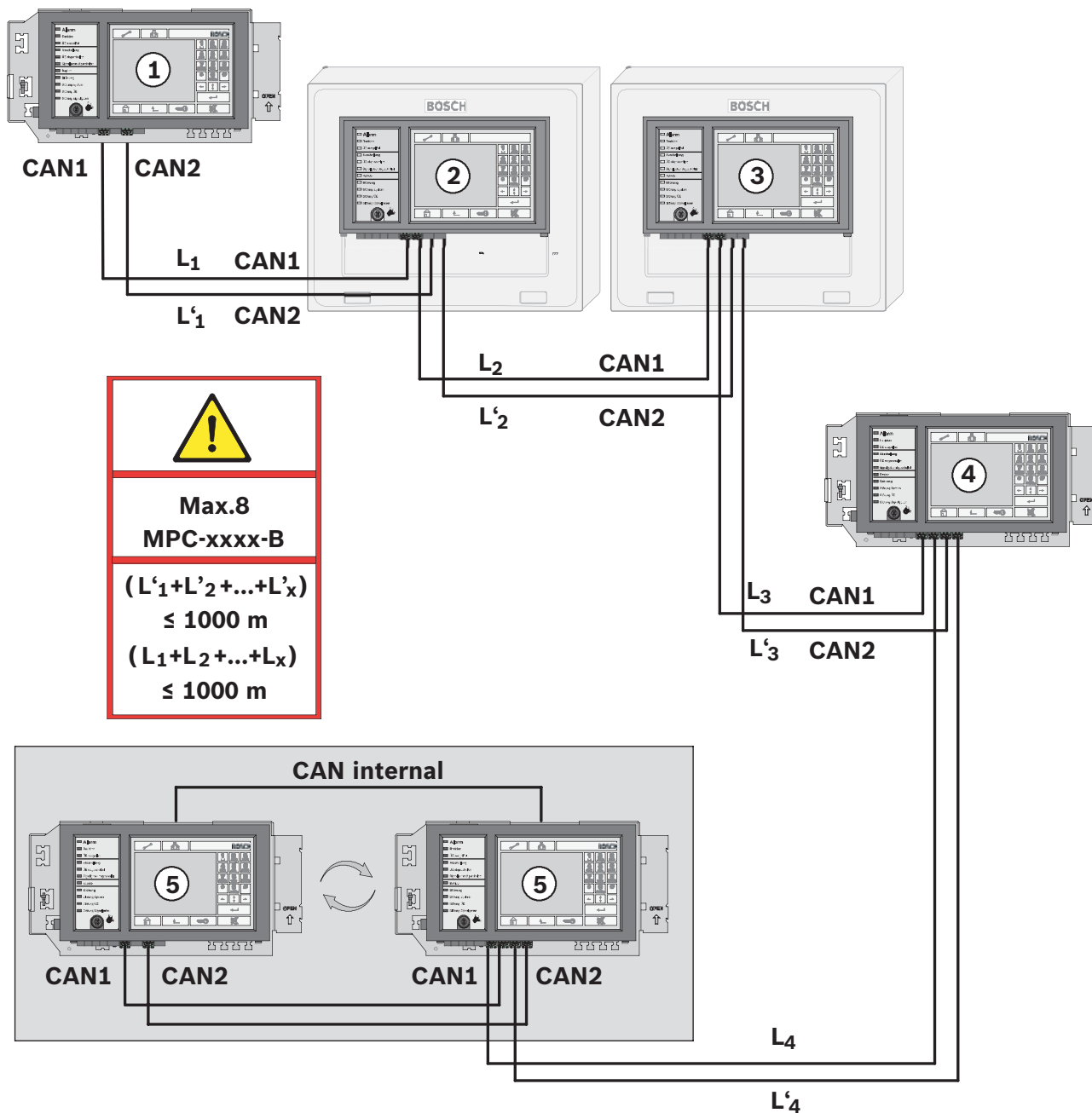
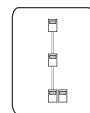
FPA-5000 ✓

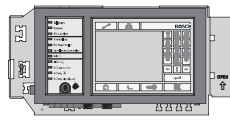
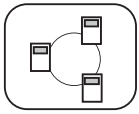
FPA-1200 ✗



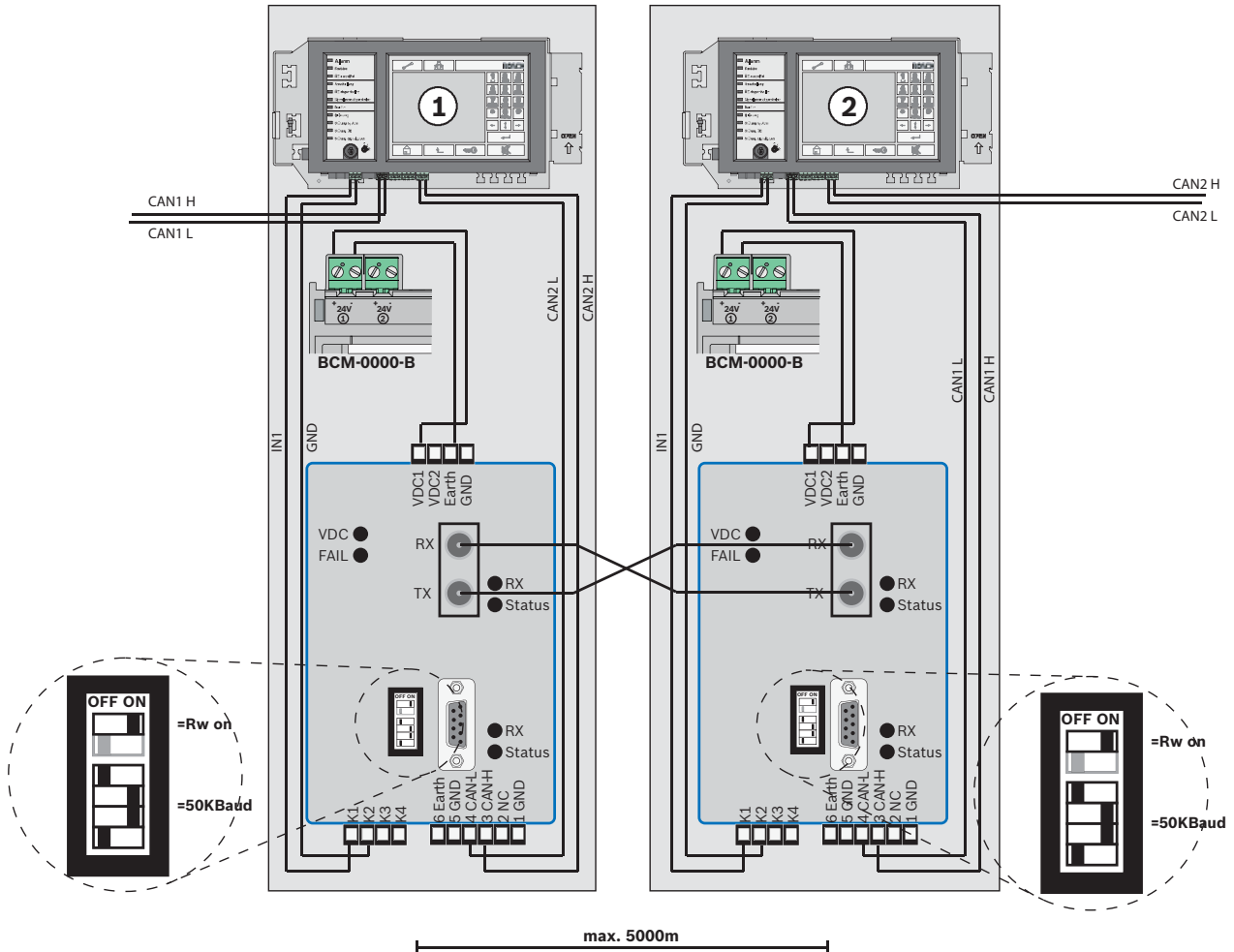
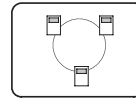


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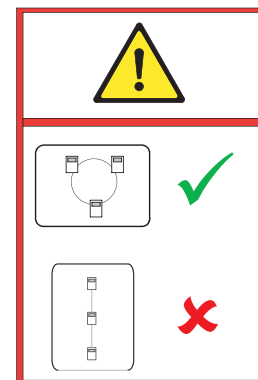


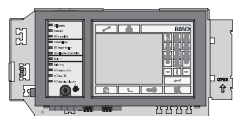
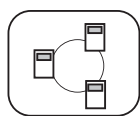


MPC-xxxx-B
+
EKS d-light DL-CAN

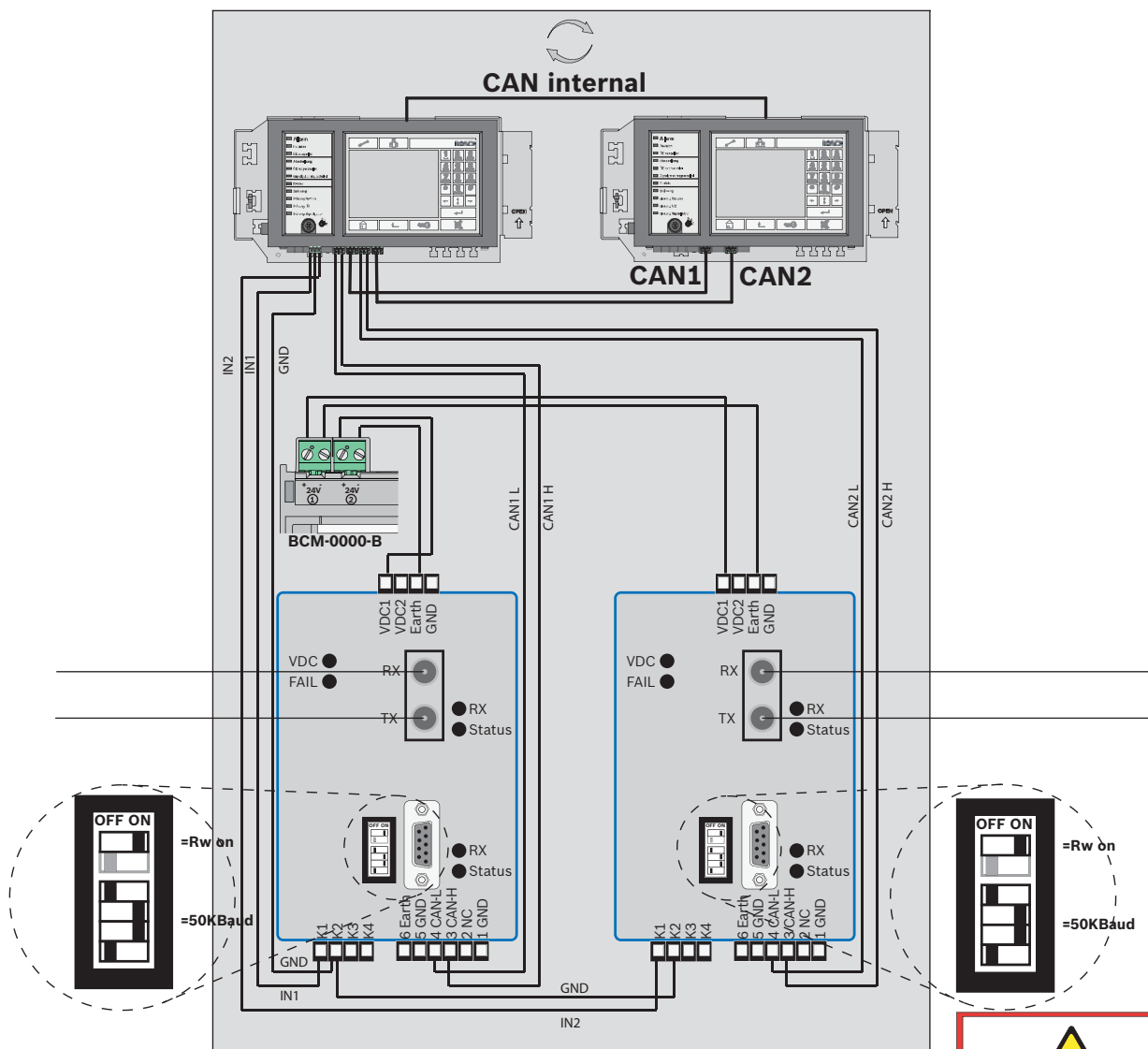
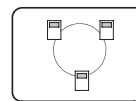


FPA-5000	✓
FPA-1200	✗

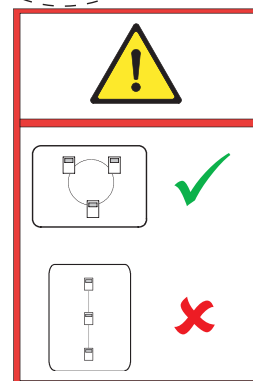




MPC-xxxx-B
+
EKS d-light DL-CAN



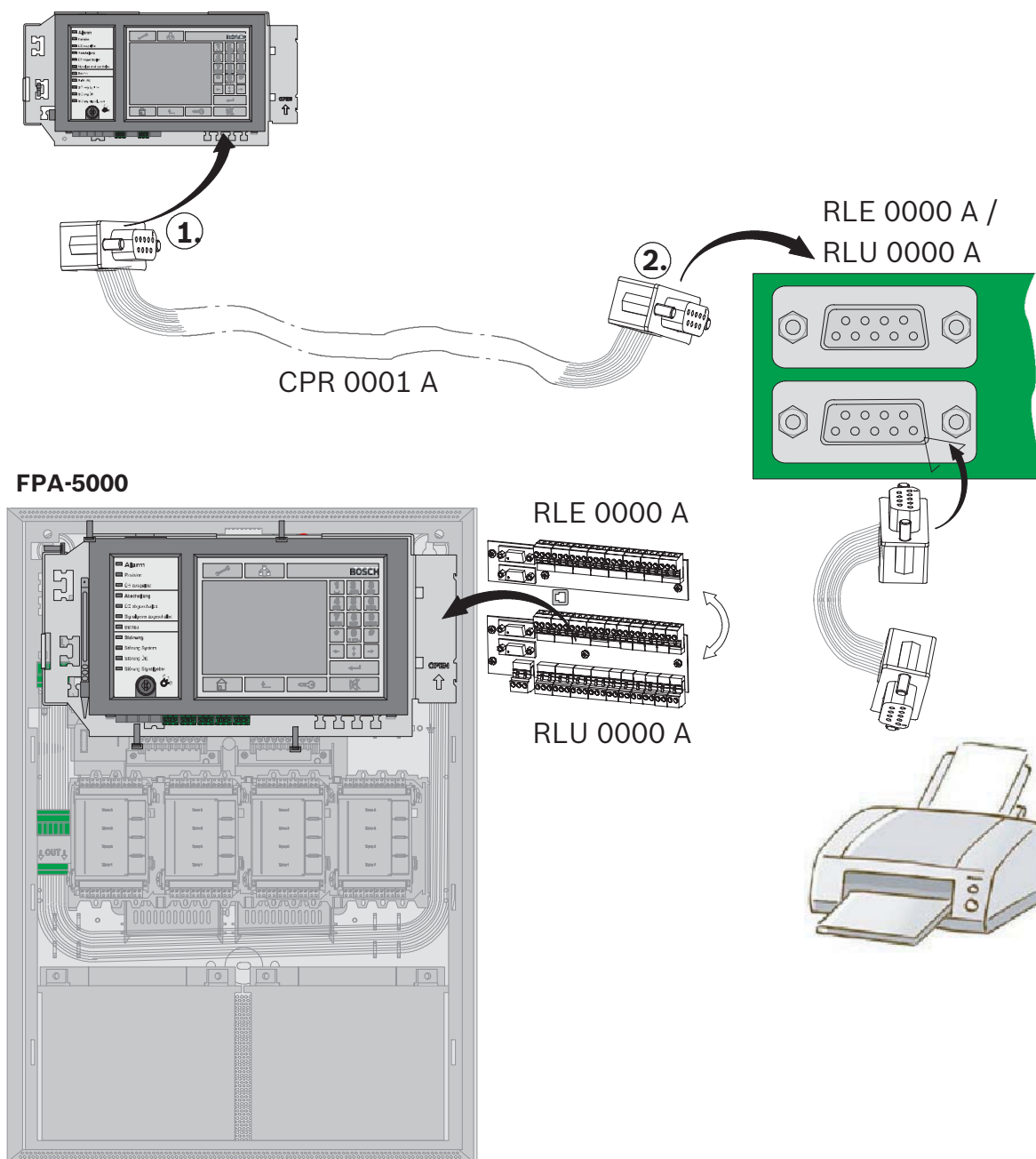
FPA-5000 ✓
FPA-1200 ✗



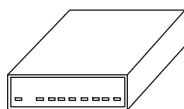
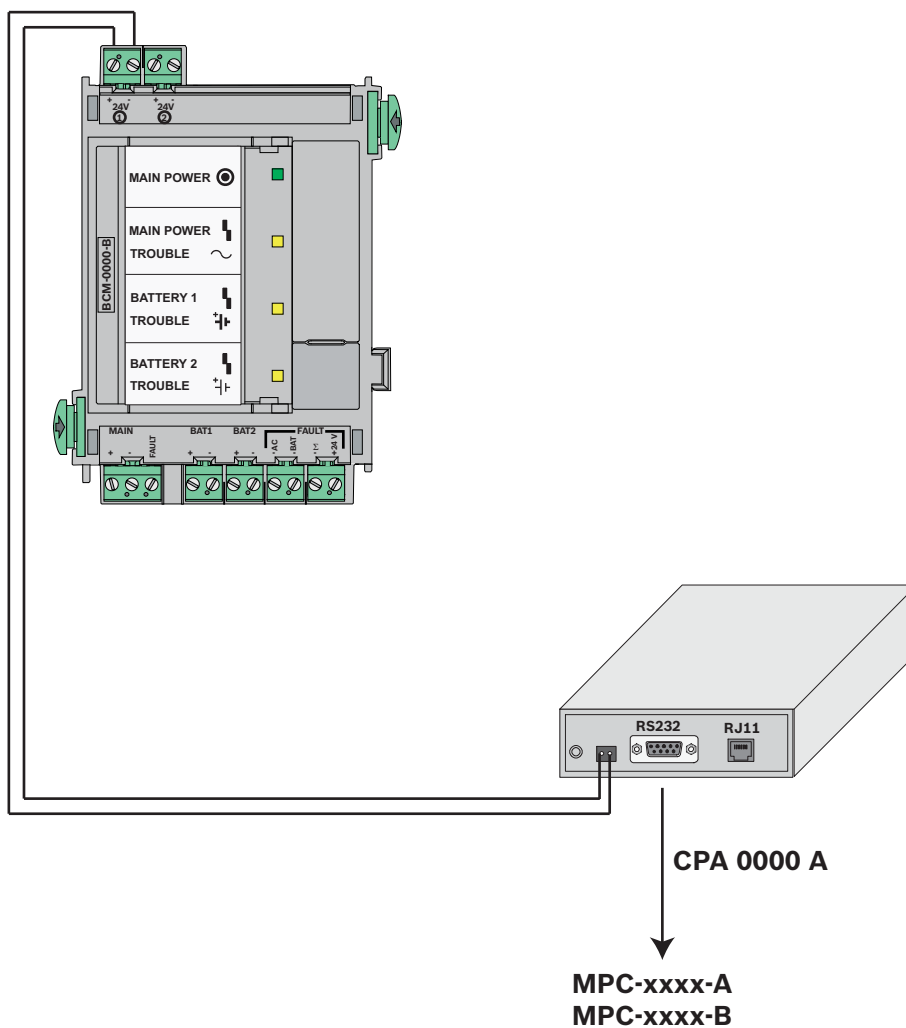
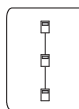
2.1.1 Printer

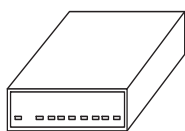


RS 232

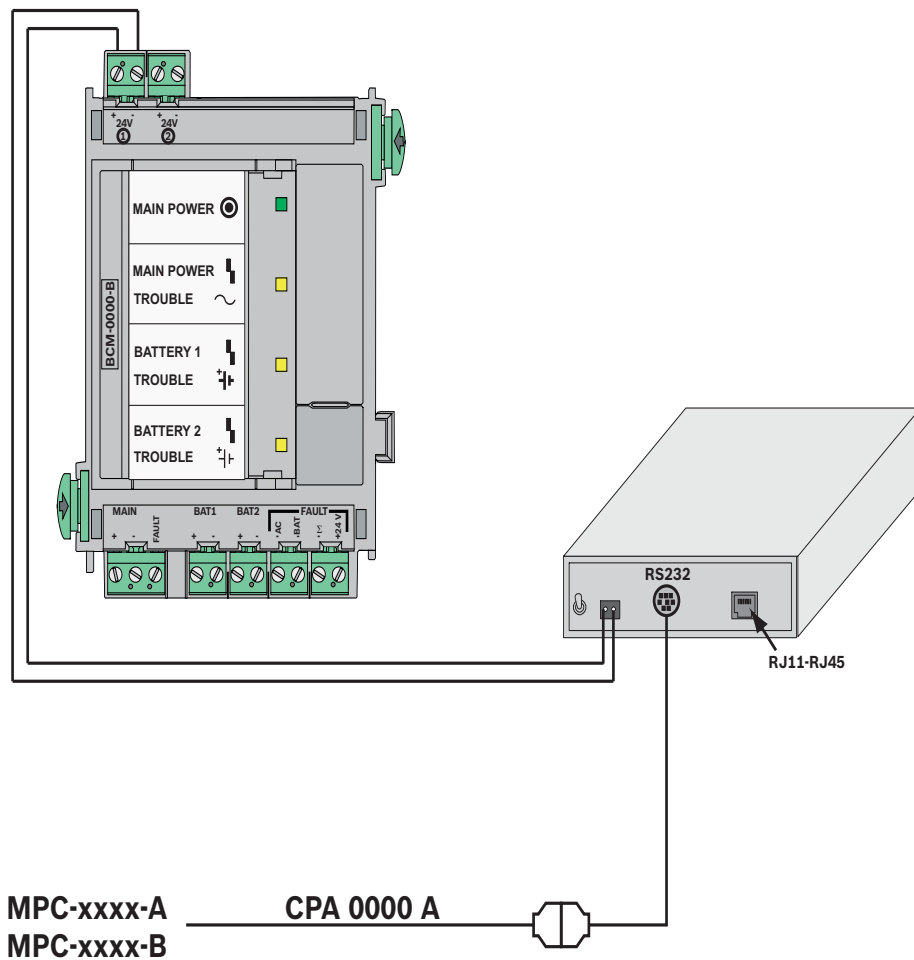
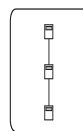


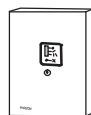
2.1.2 Transmission units

**Analog Modem 56k**

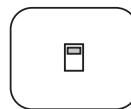


Microlink ISDN i

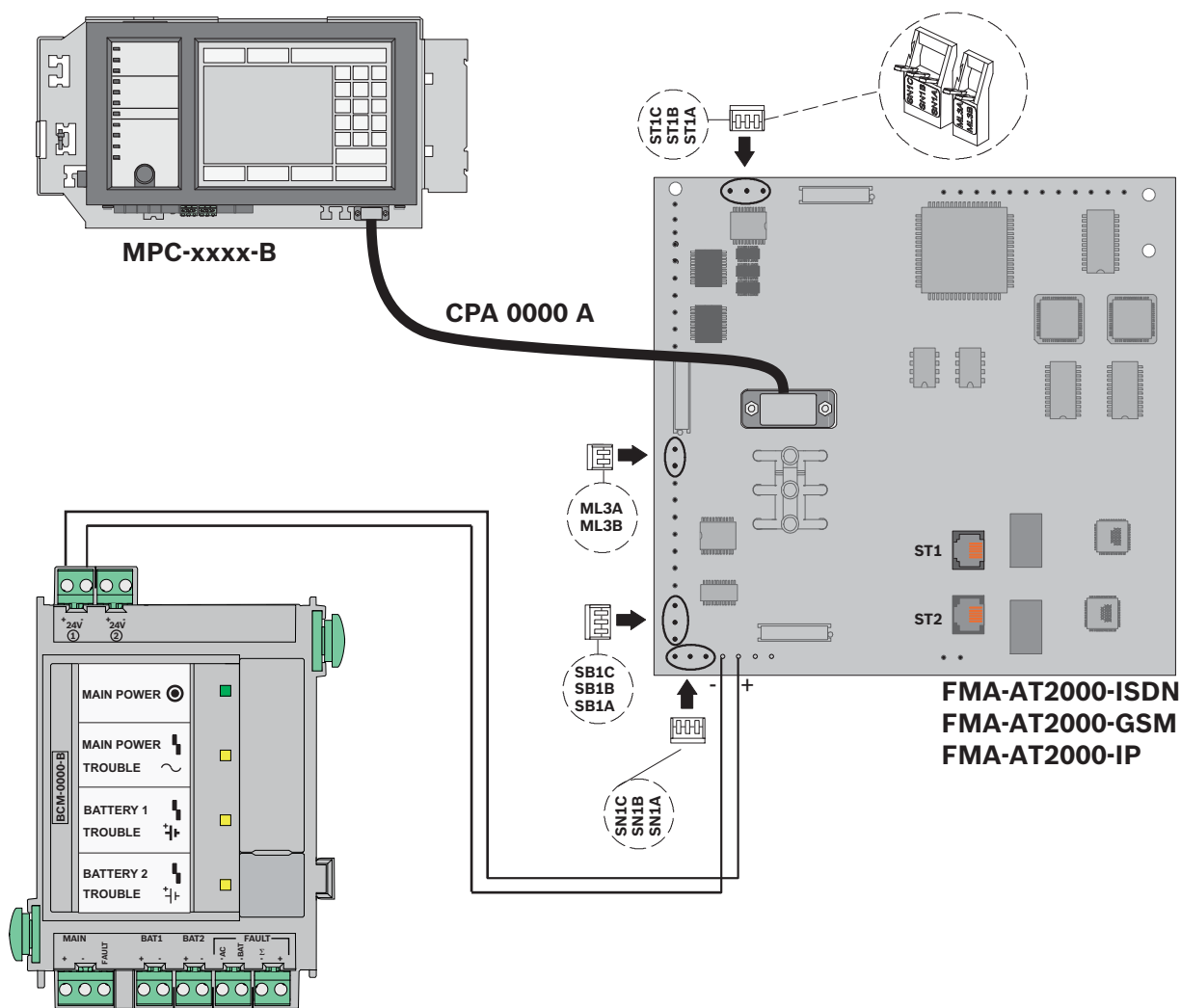




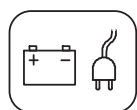
FMA-AT2000-ISDN
FMA-AT2000-GSM
FMA-AT2000-IP



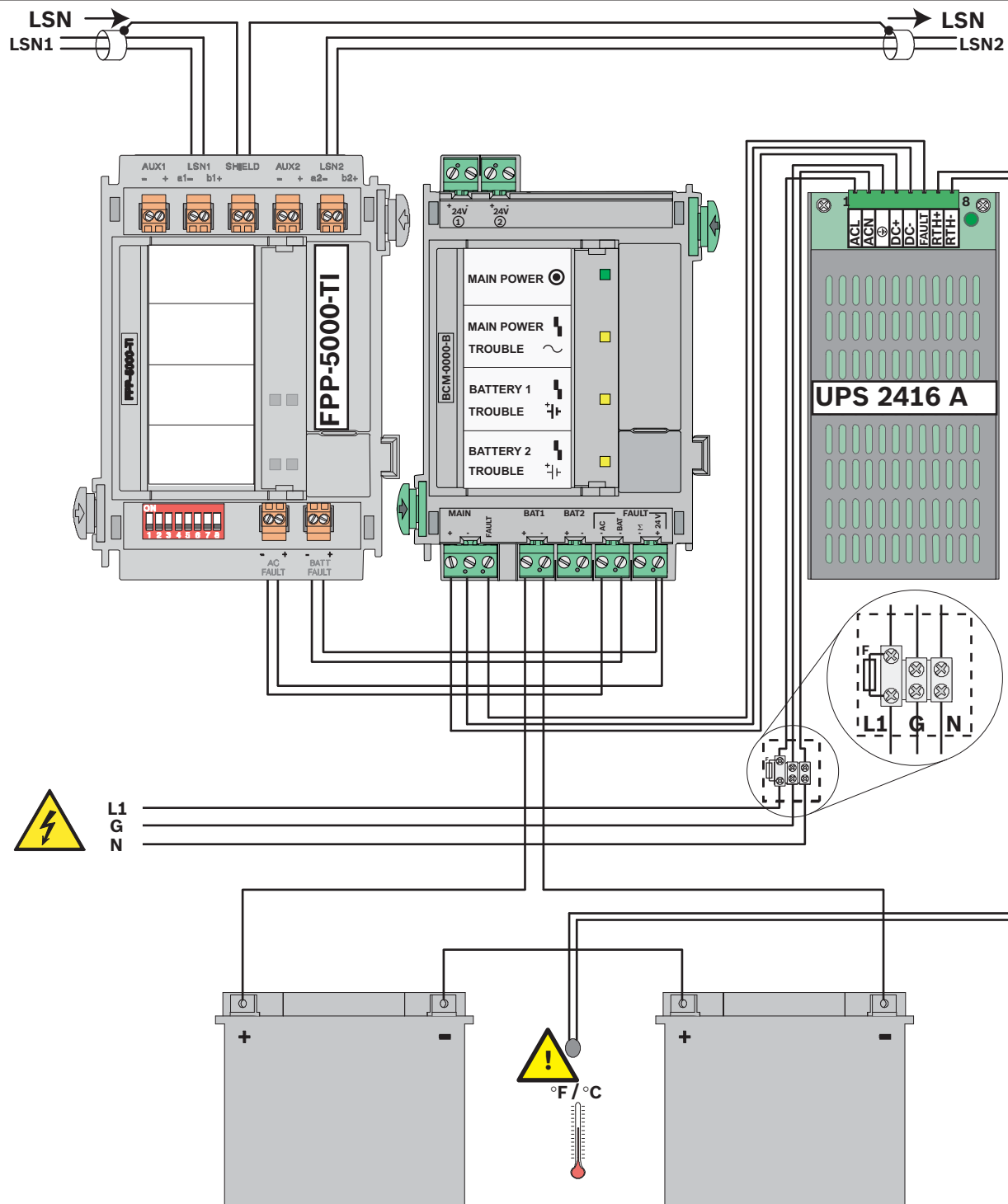
Teleservice

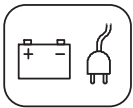


2.2 Power Supply

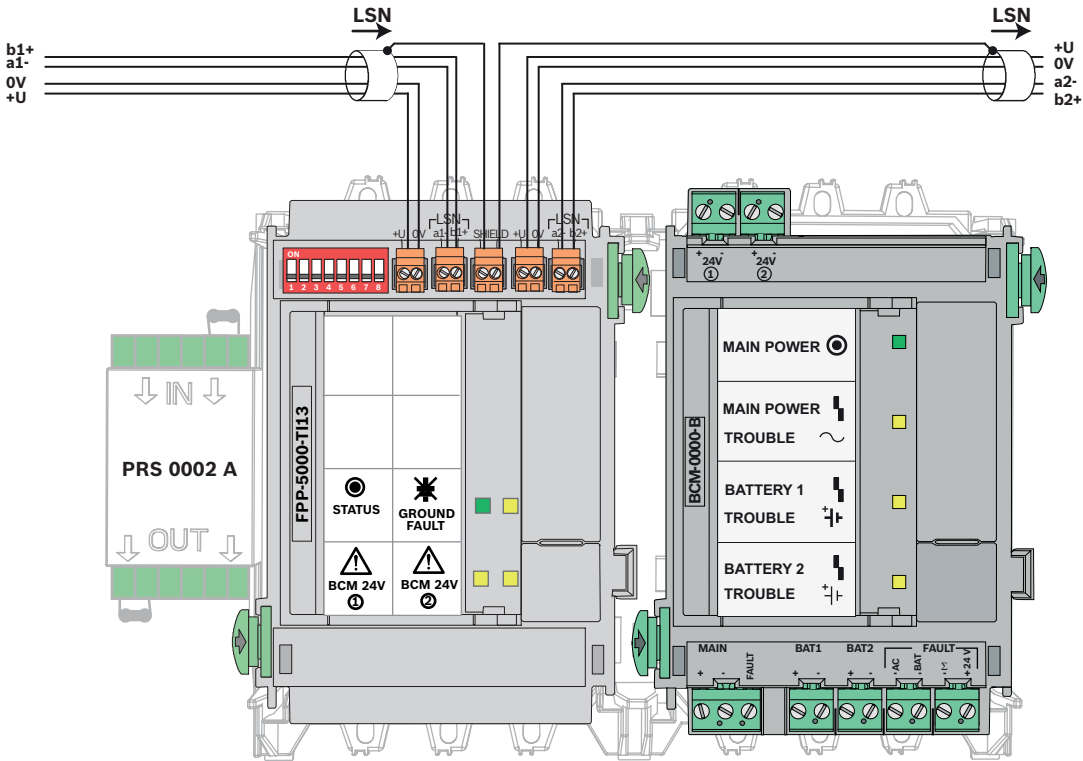


FPP-5000-TI

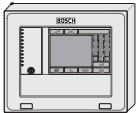
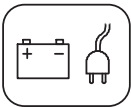




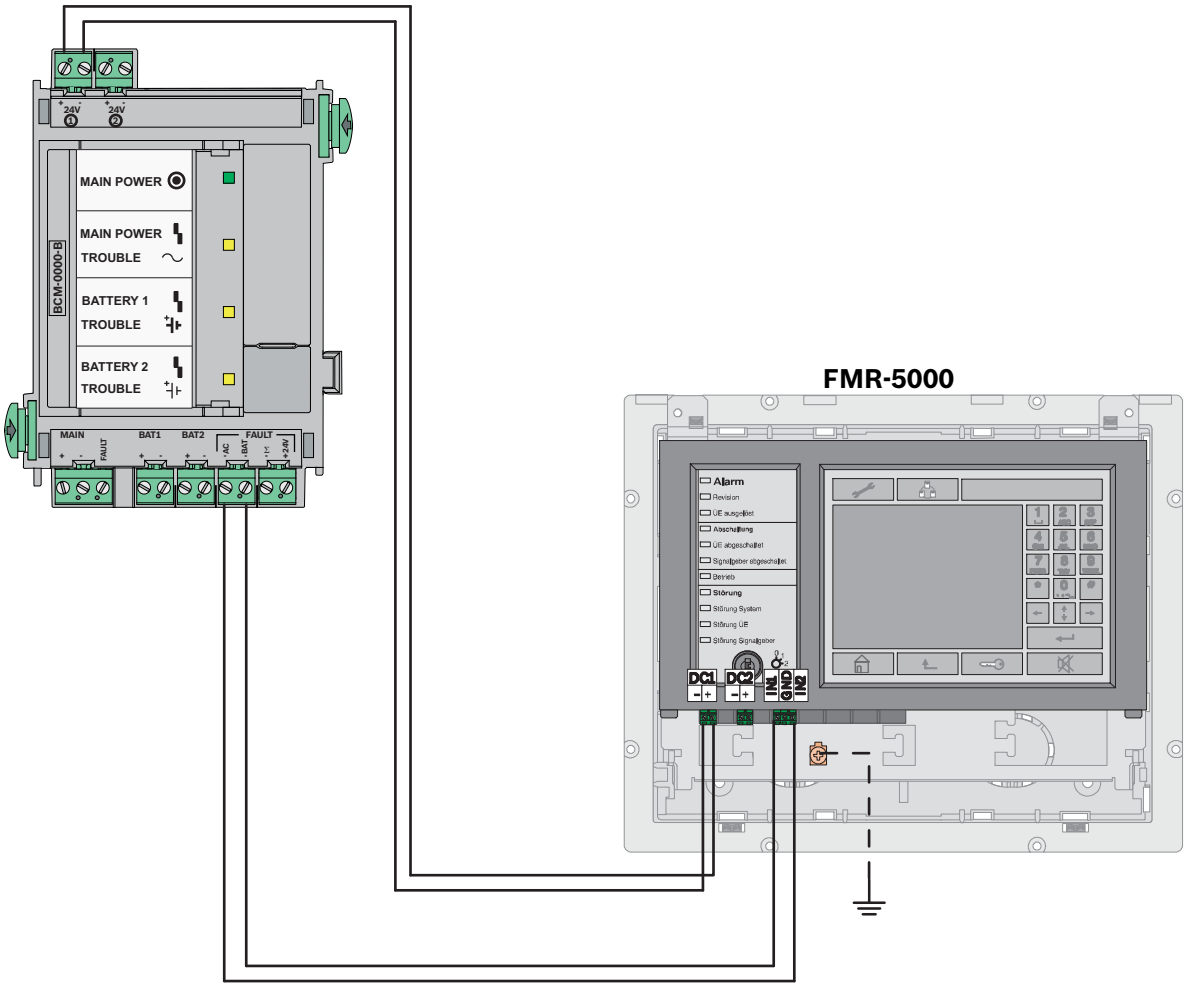
FPP-5000-TI13

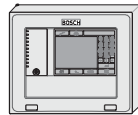
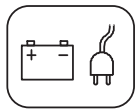
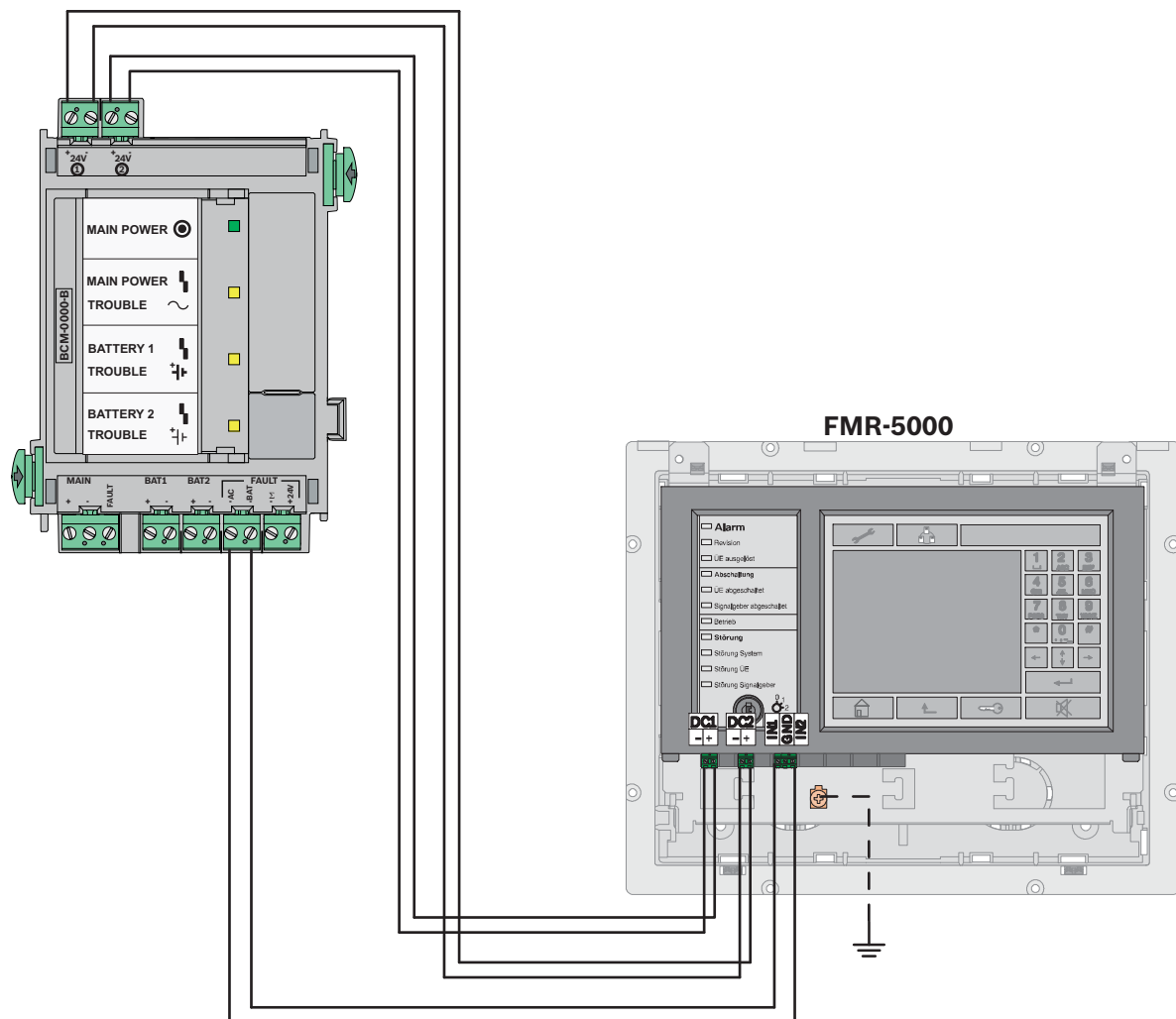


2.2.1 Operating and display panels

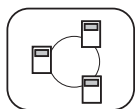


FMR-5000-xx

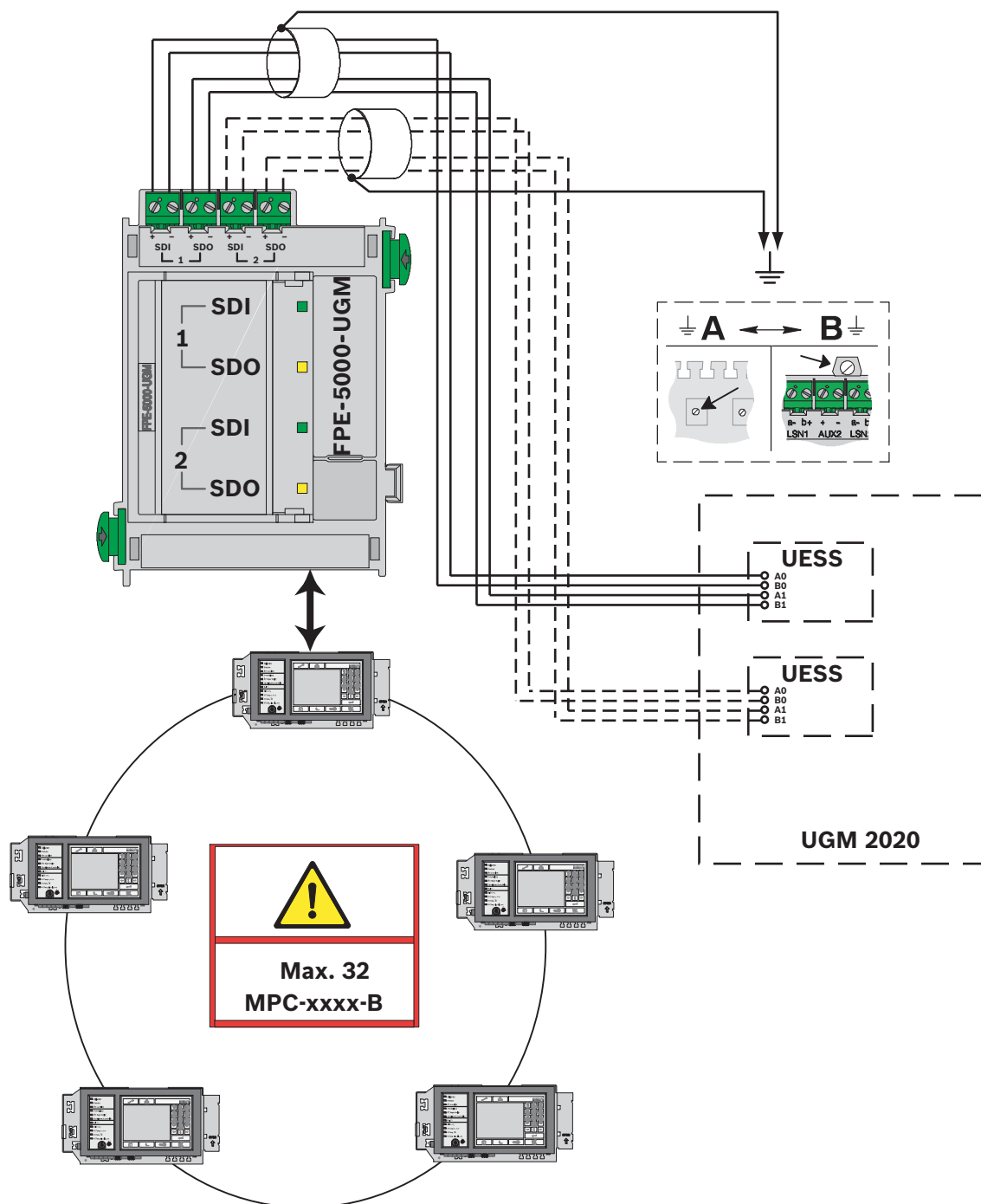


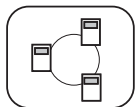
**FMR-5000-xx**

2.2.2 FPE-5000-UGM

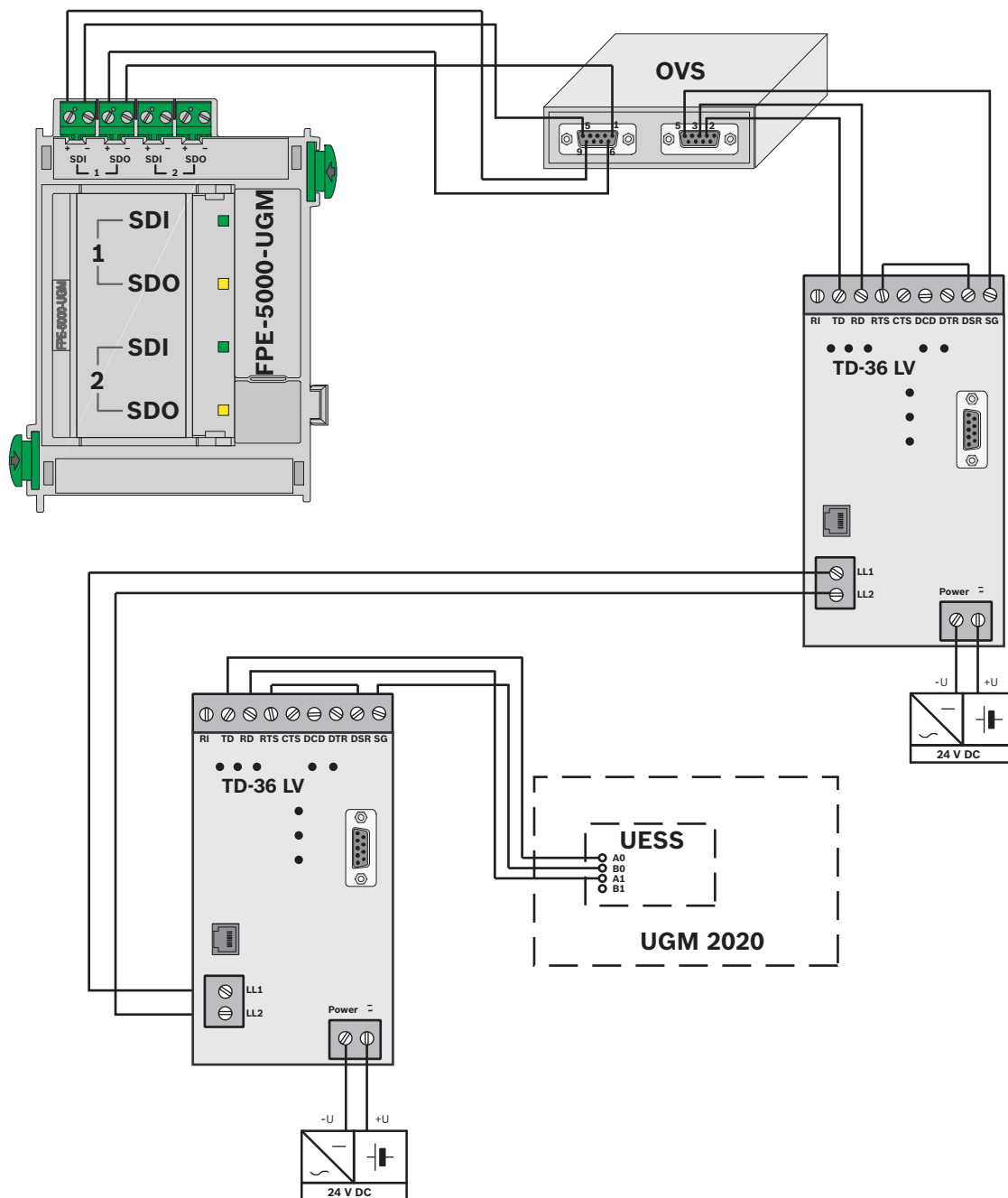


UGM 2020





UGM 200

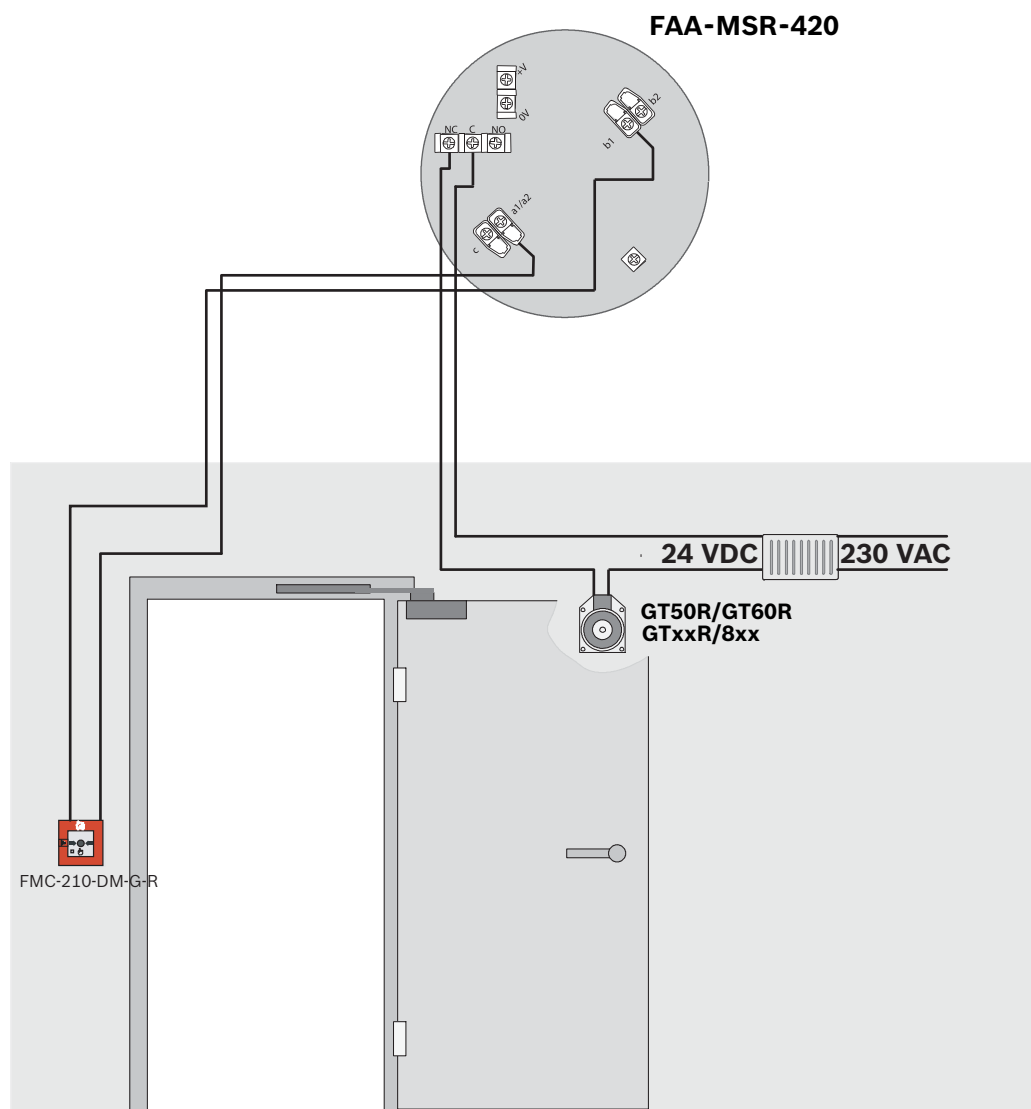


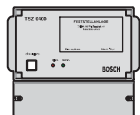
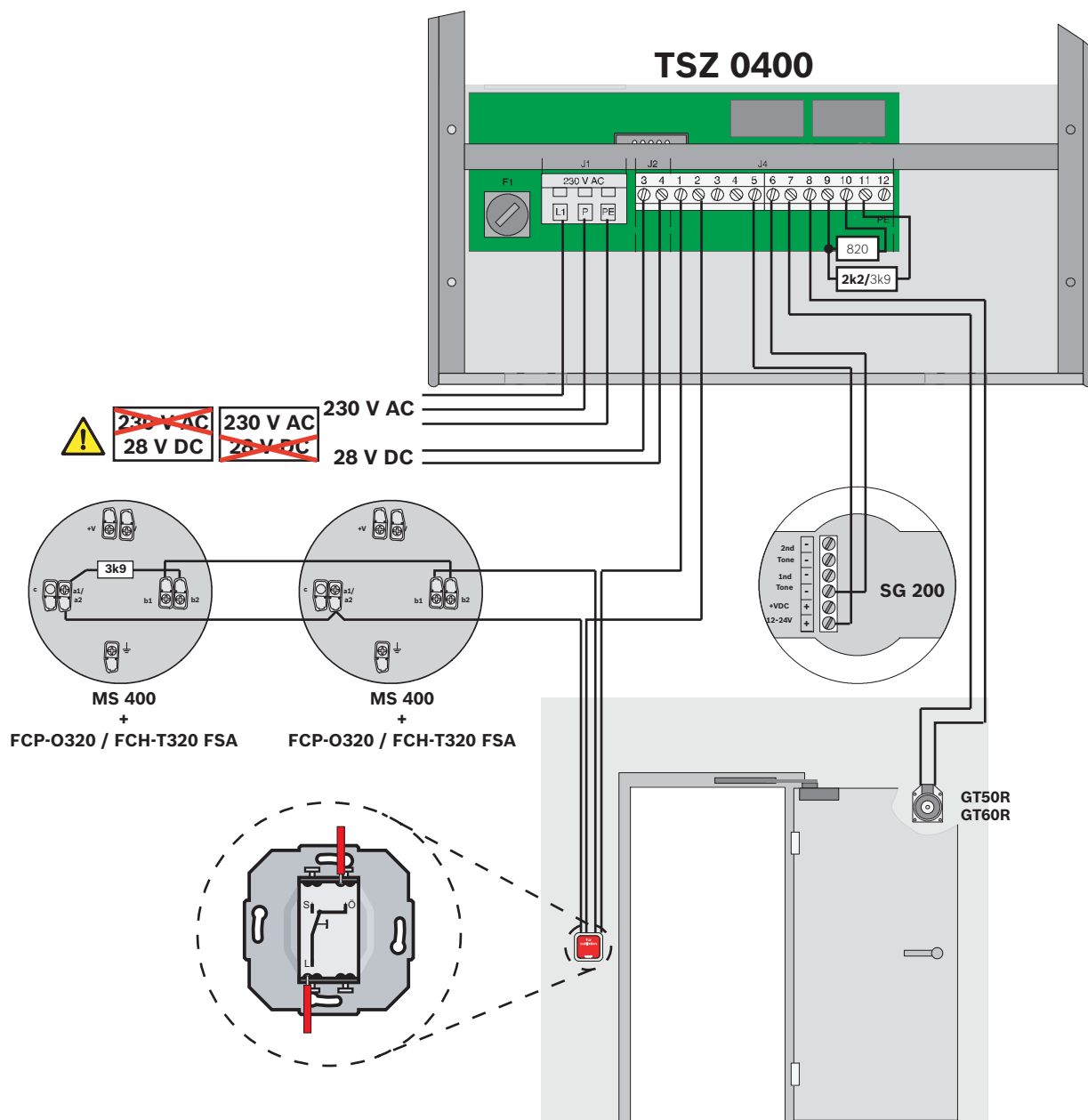
2.3 DIBT / Detector Bases

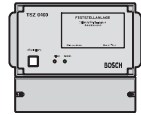
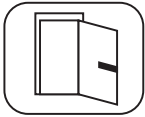


GT 50 R
GT 60 R
GT xx R
8 xx

DIBT

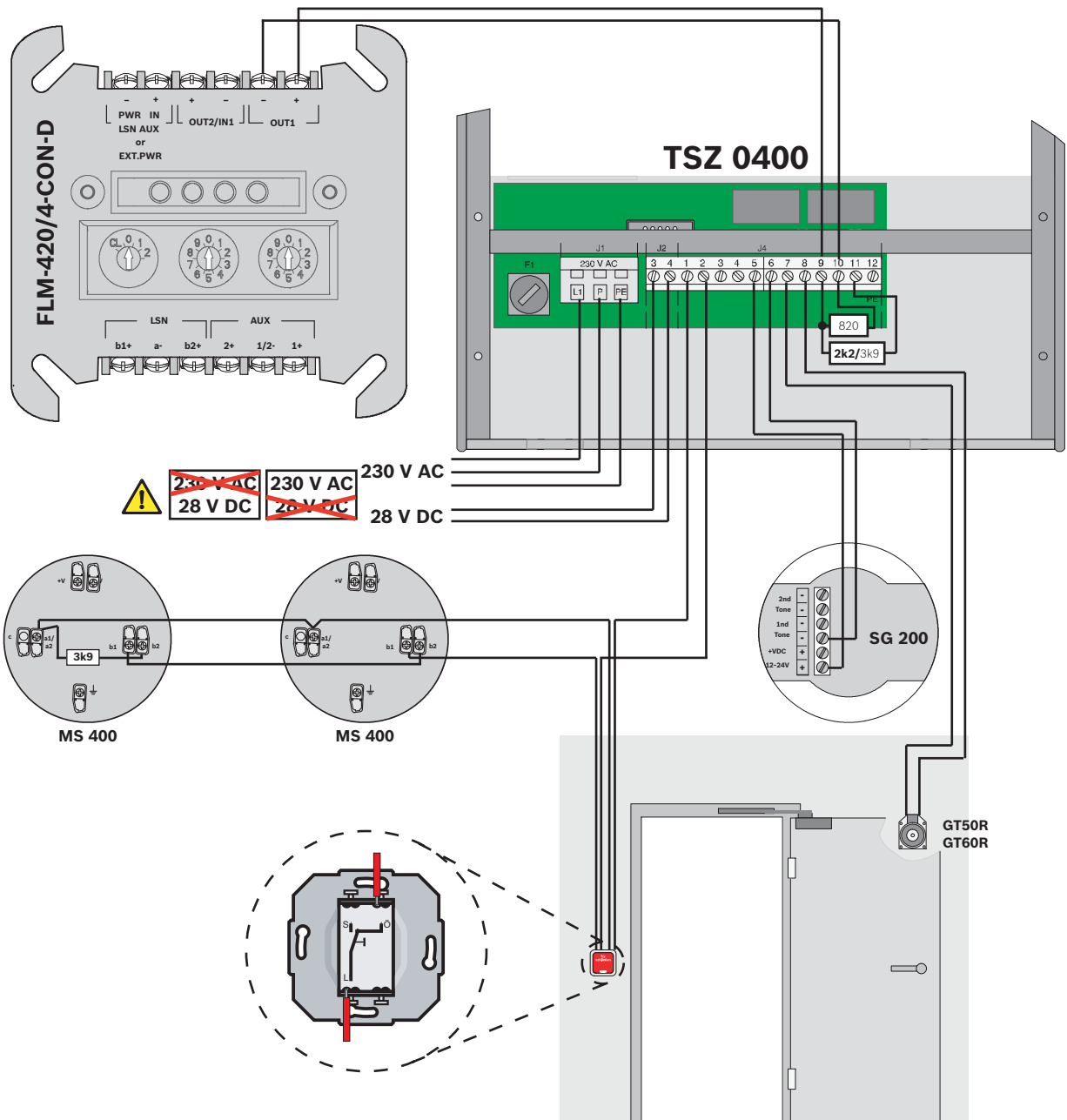


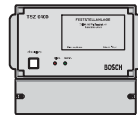
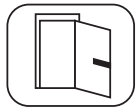
**TSZ 0400****DIBT** 



TSZ 0400

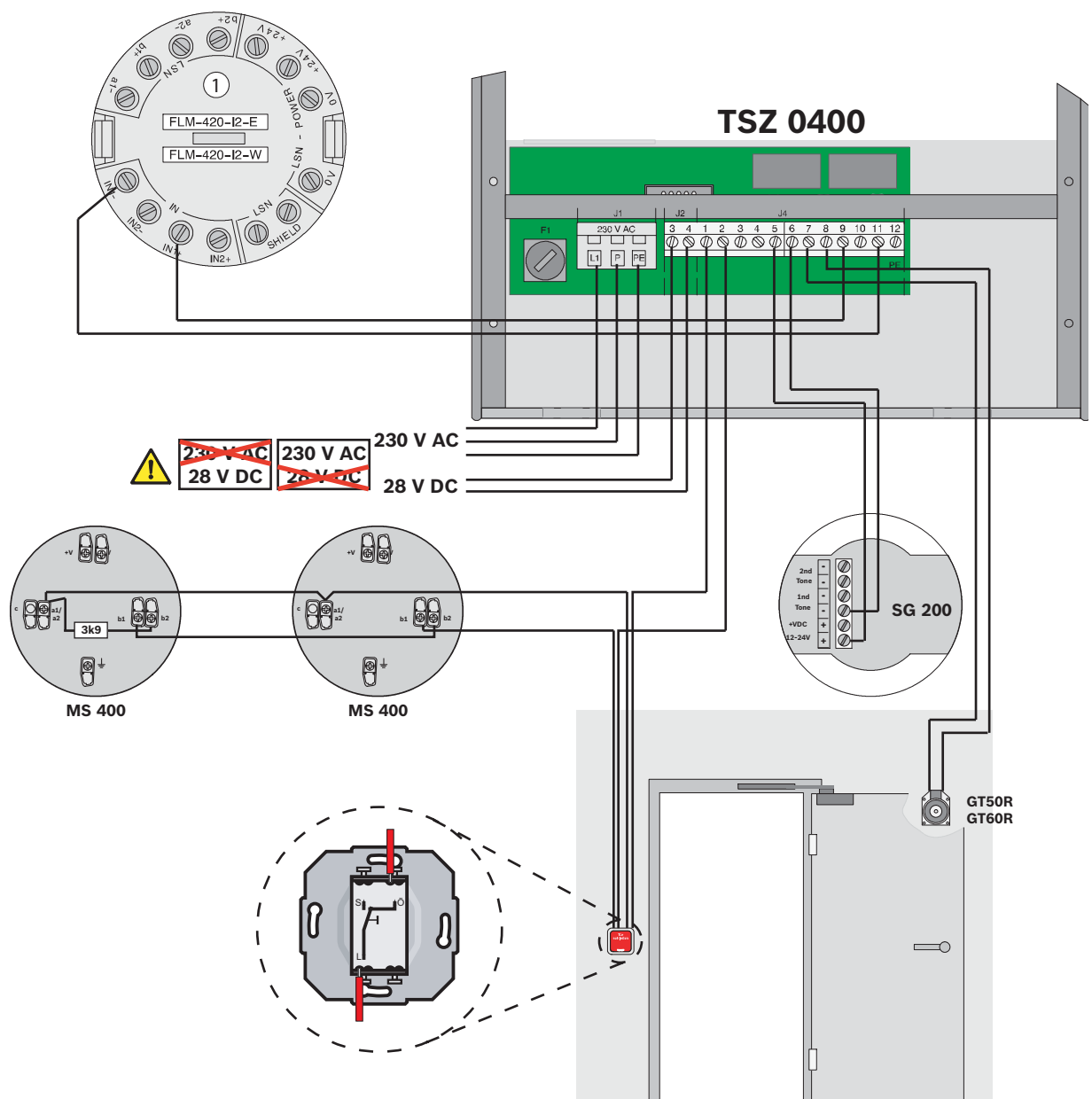
DIBT

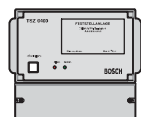




TSZ 0400

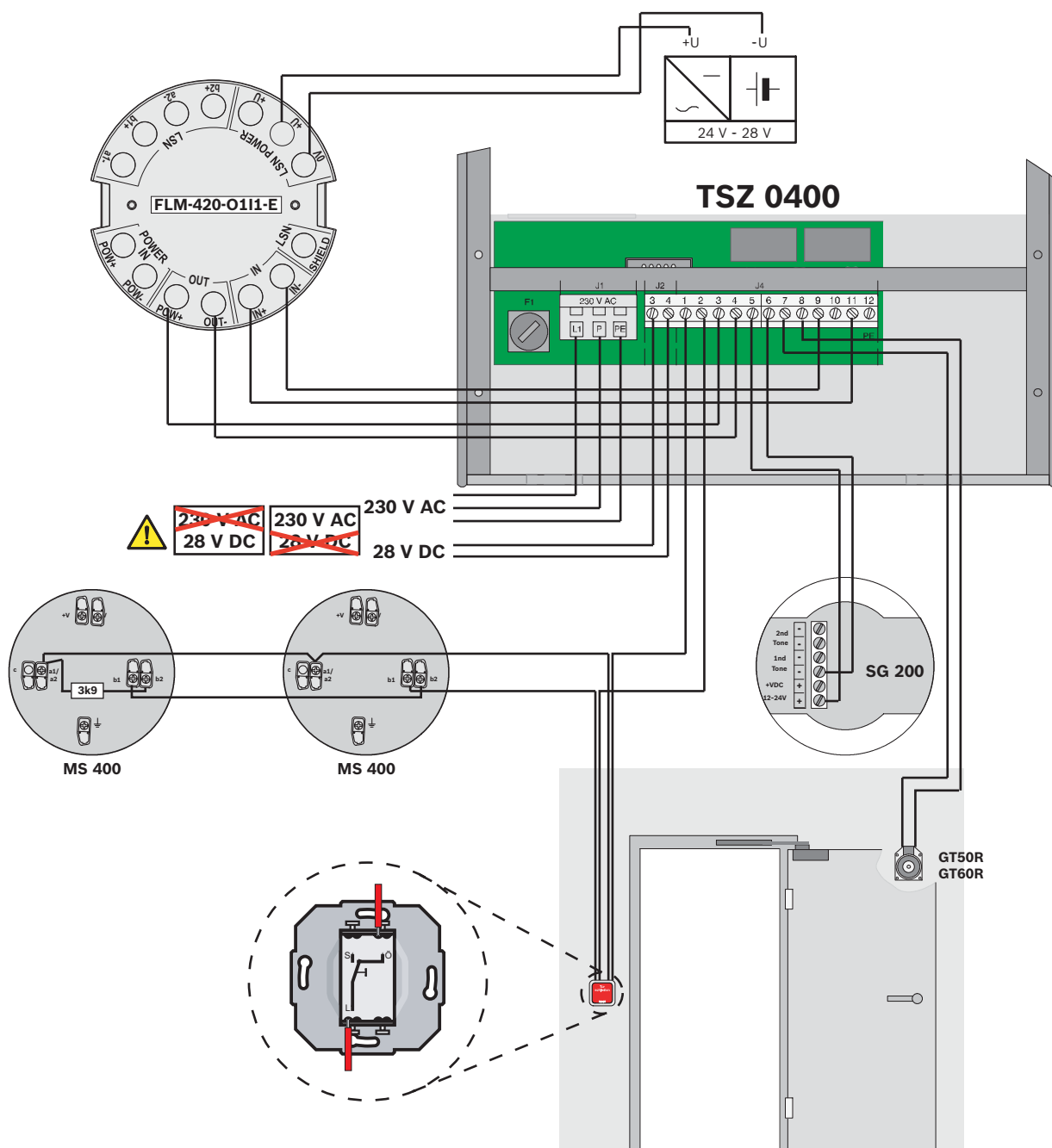
DIBT

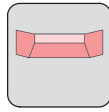
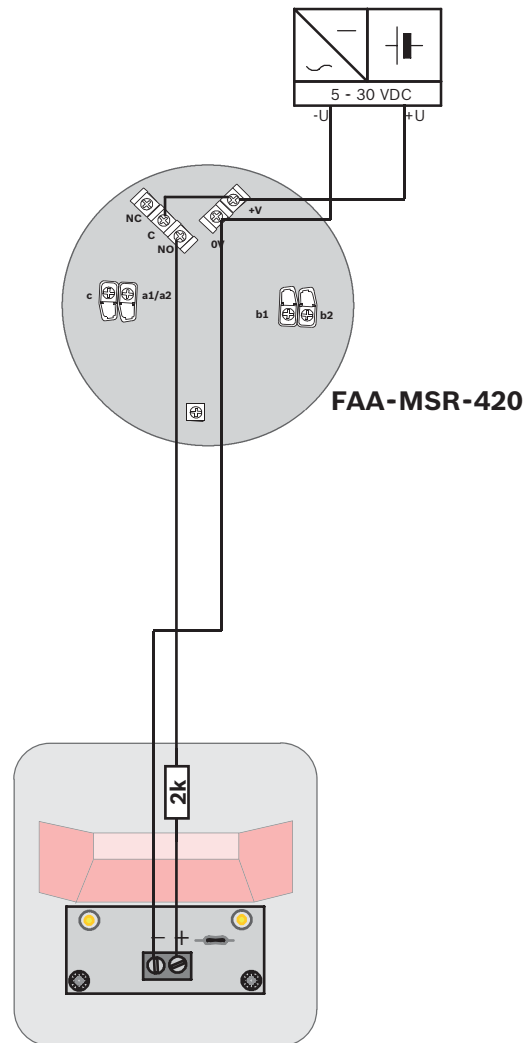
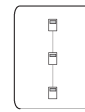




TSZ 0400

DIBT



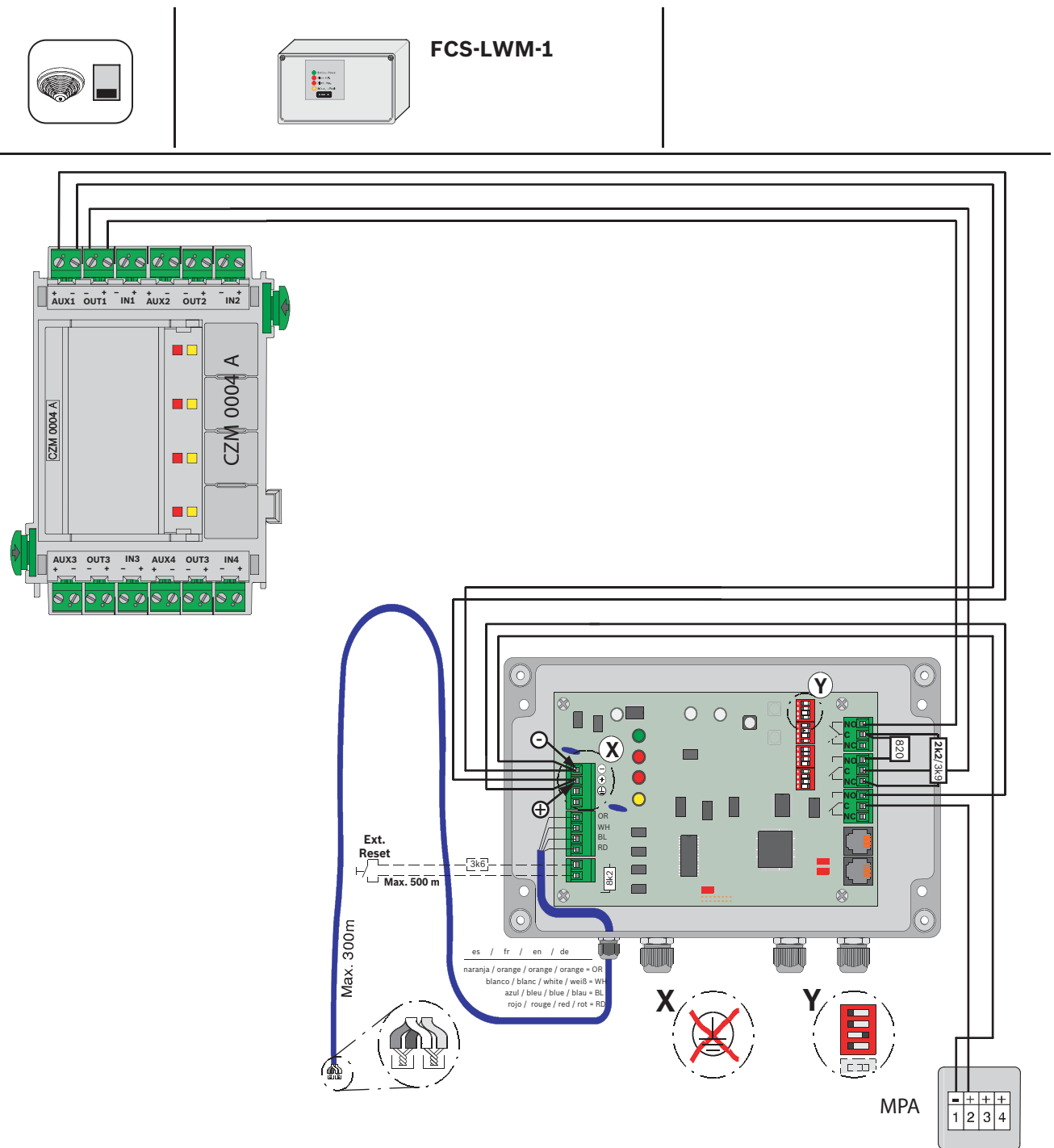
**FAA-420-RI**

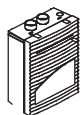
2.4 Functional Modules



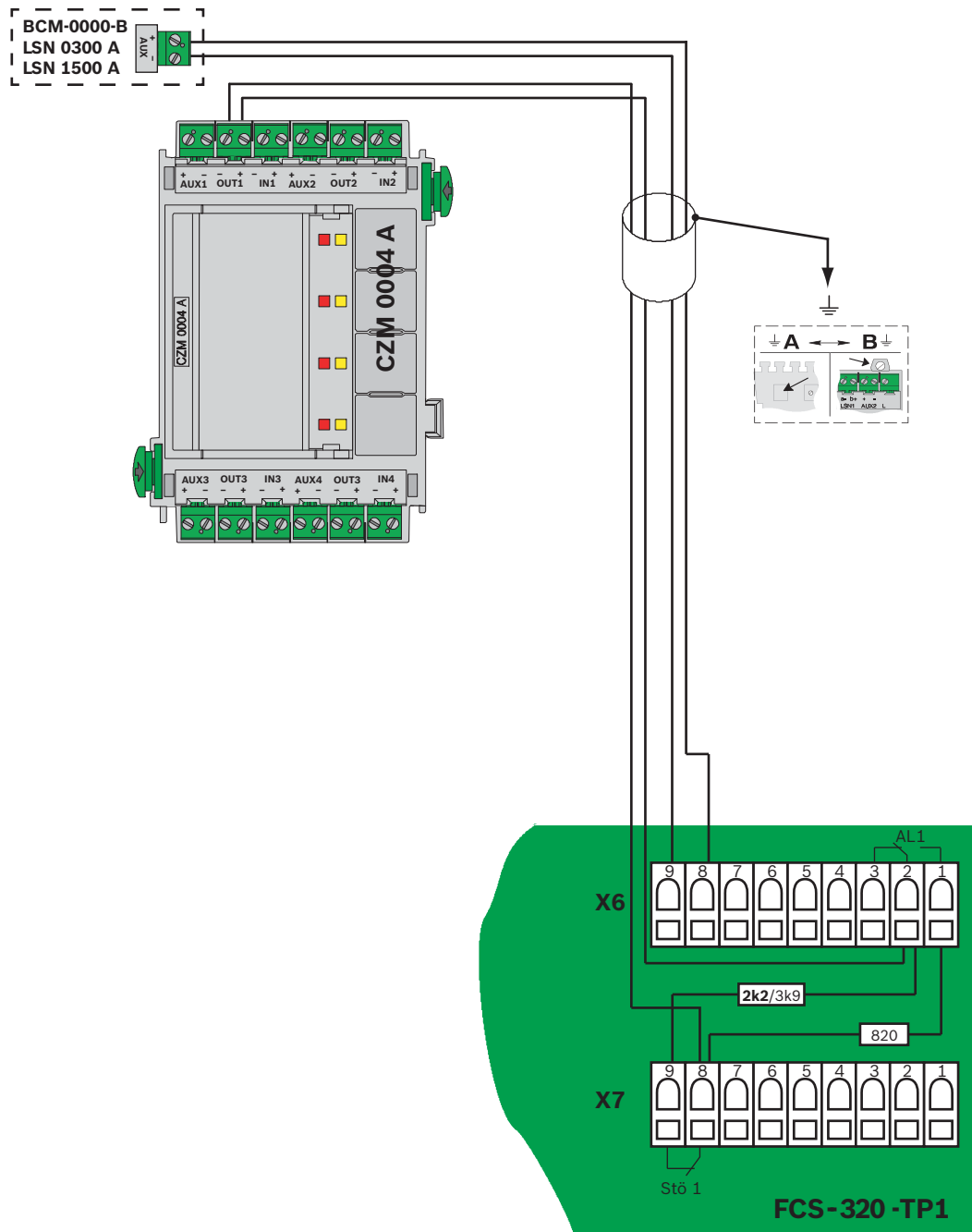
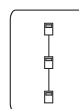
CZM 0004 A	44
ENO 0000 A/B	61
LSN 0300 A / LSN 1500 A	88
NZM 0002 A	131
RMH 0002 A	144
IOS 0020 A	149

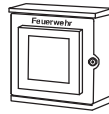
2.4.1 CZM 0004 A



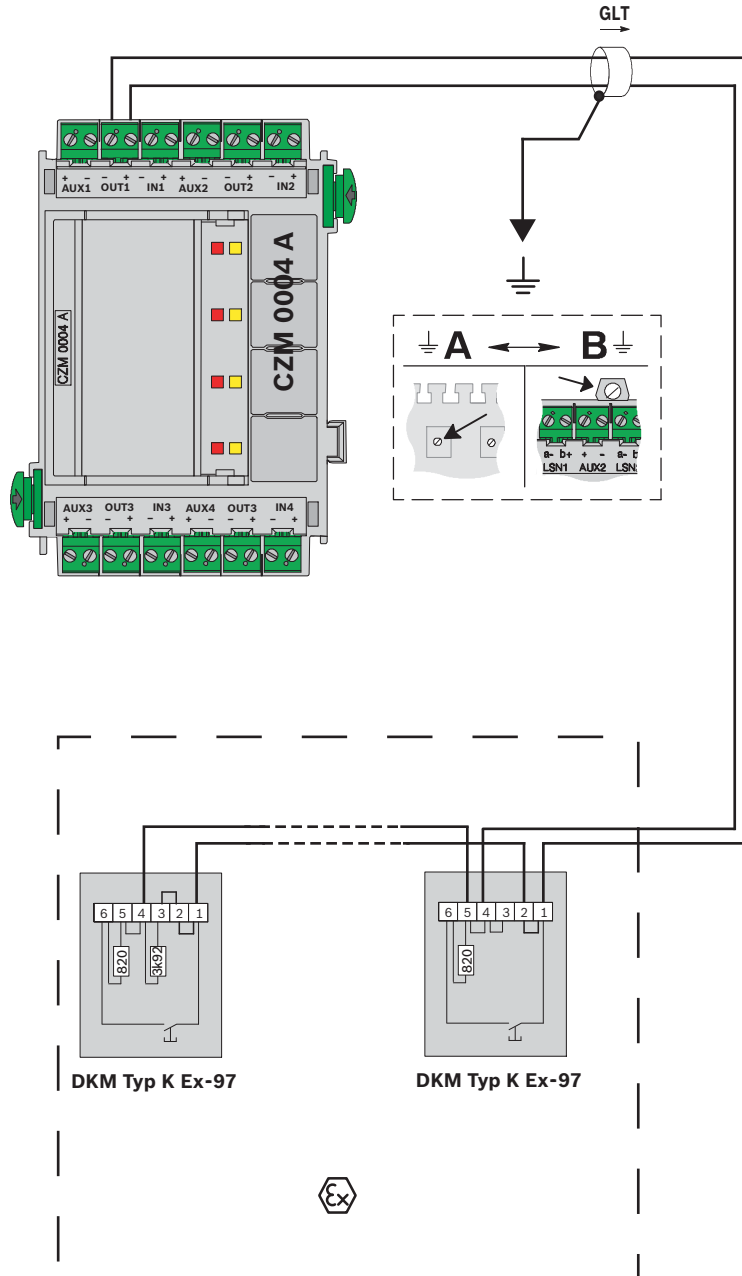
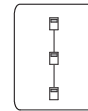


FCS-320-TP Series



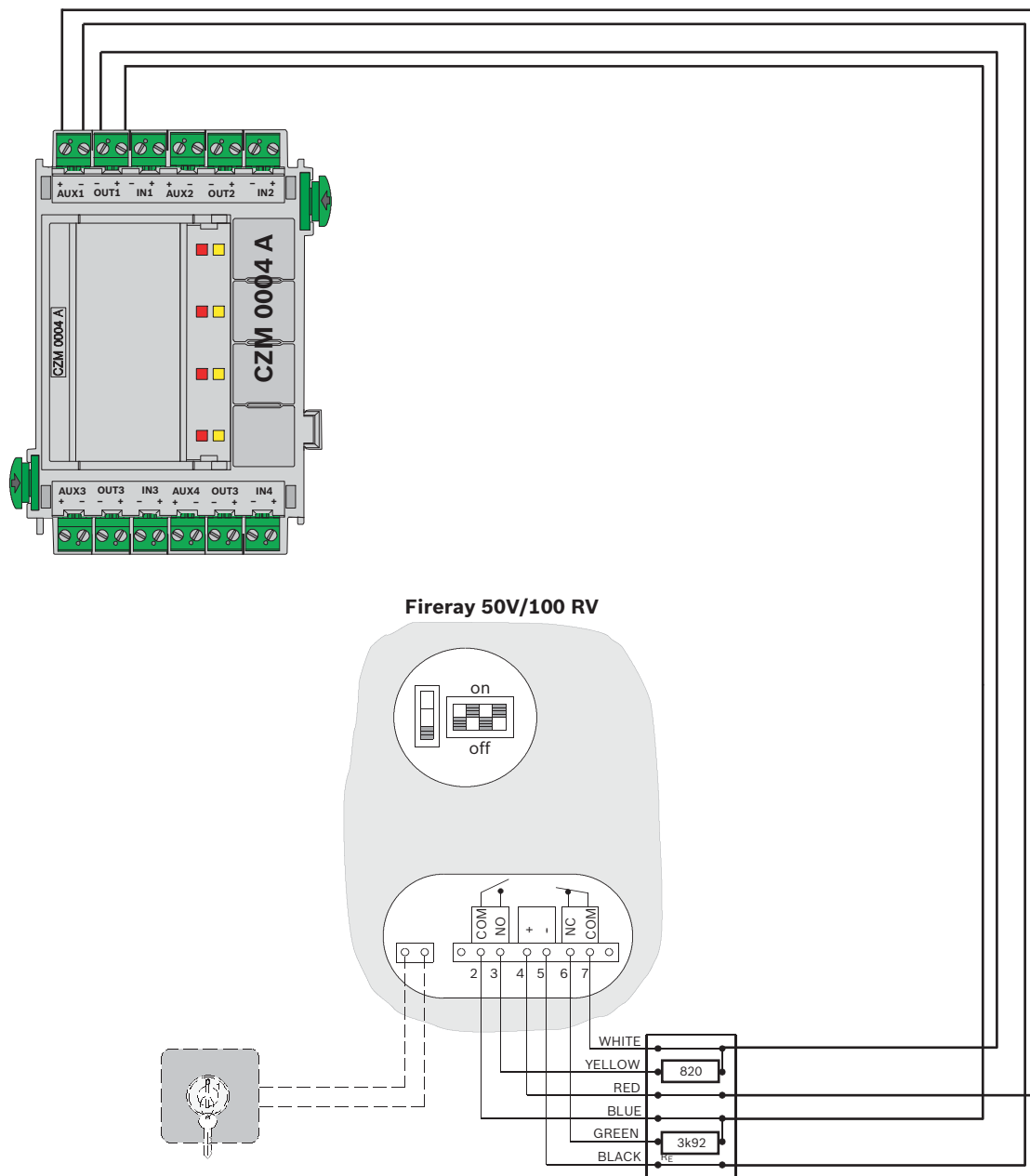


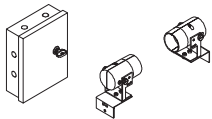
DKM Typ K Ex-97



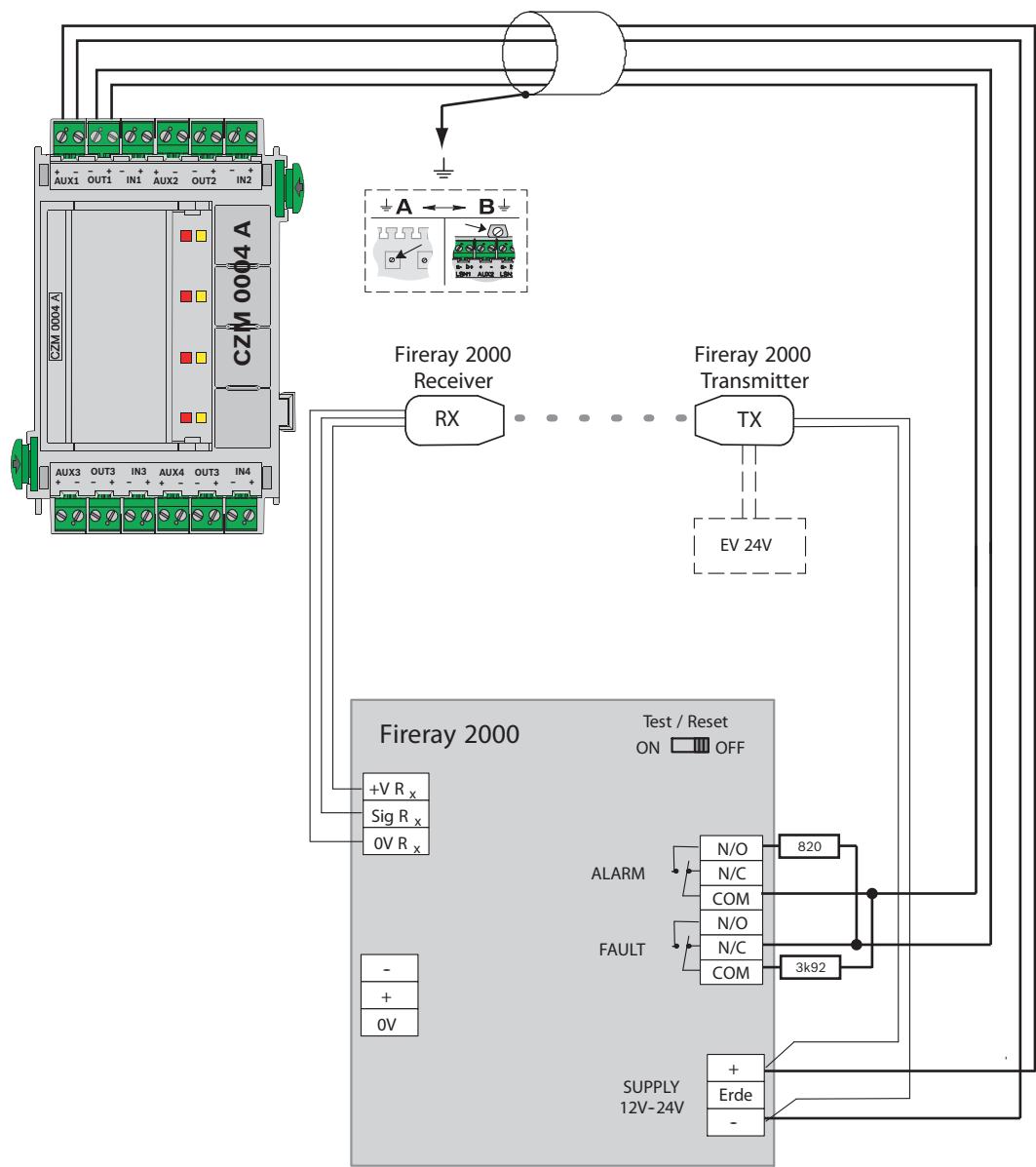


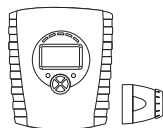
Fireray 50RV
Fireray 100RV



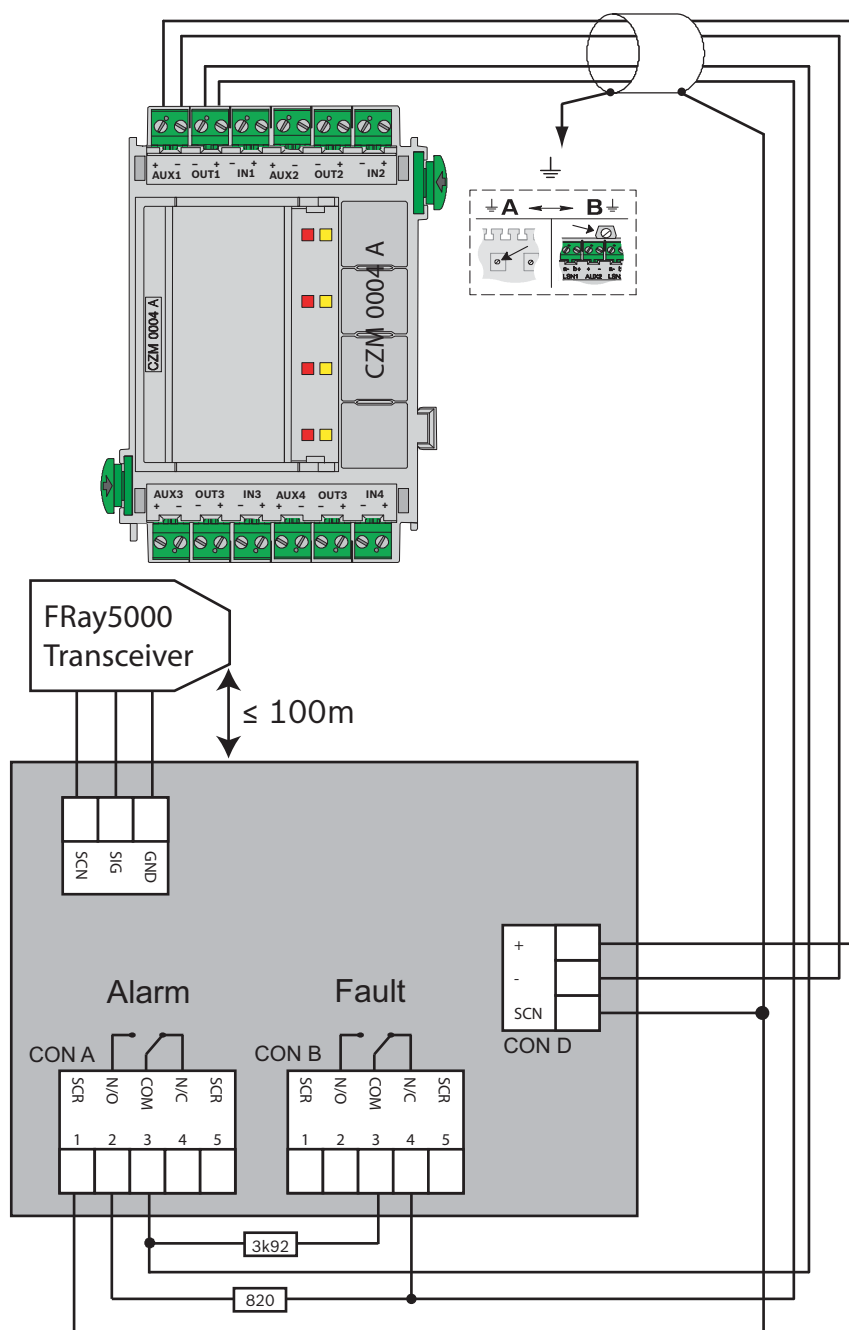


Fireray 2000



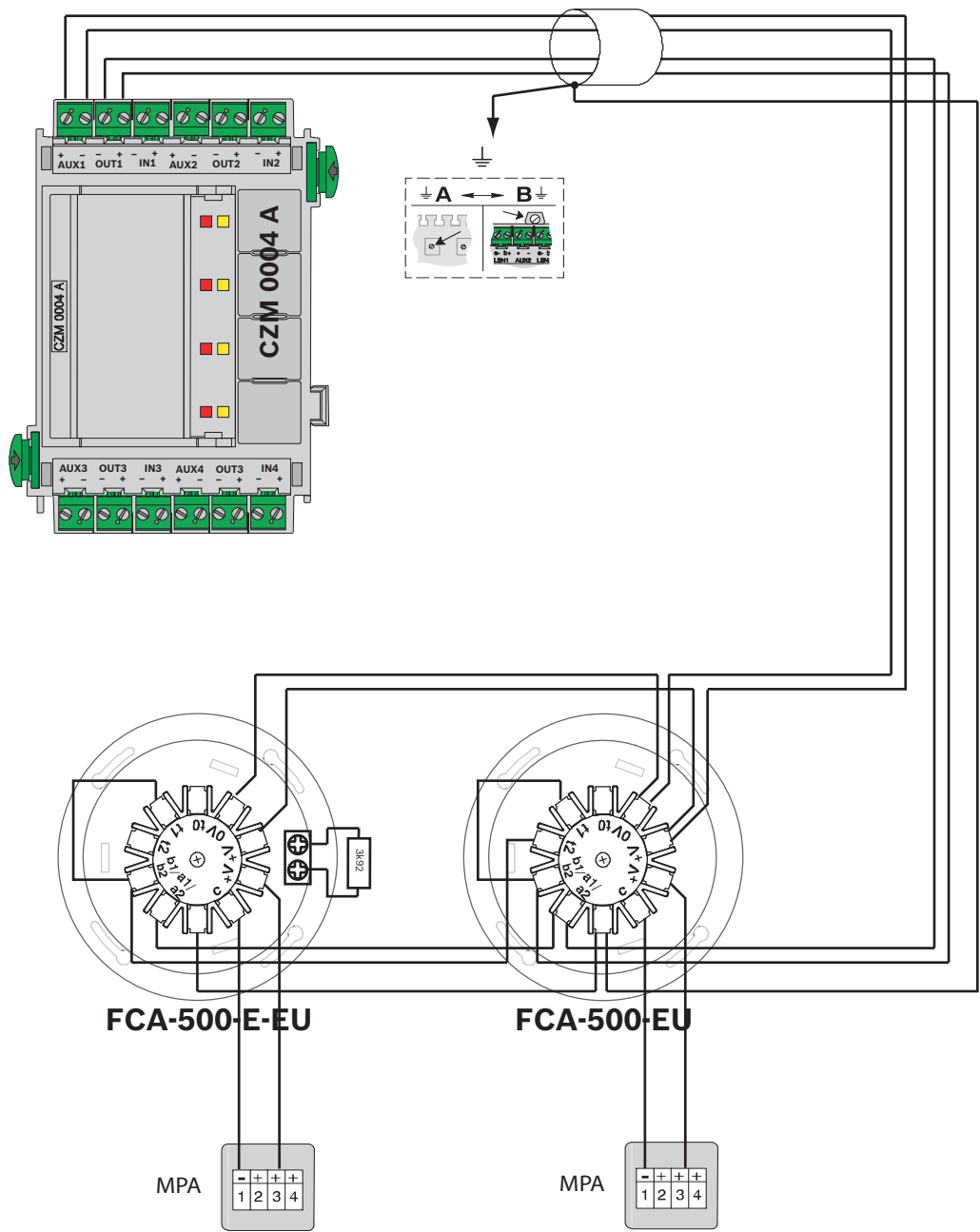
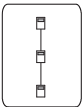


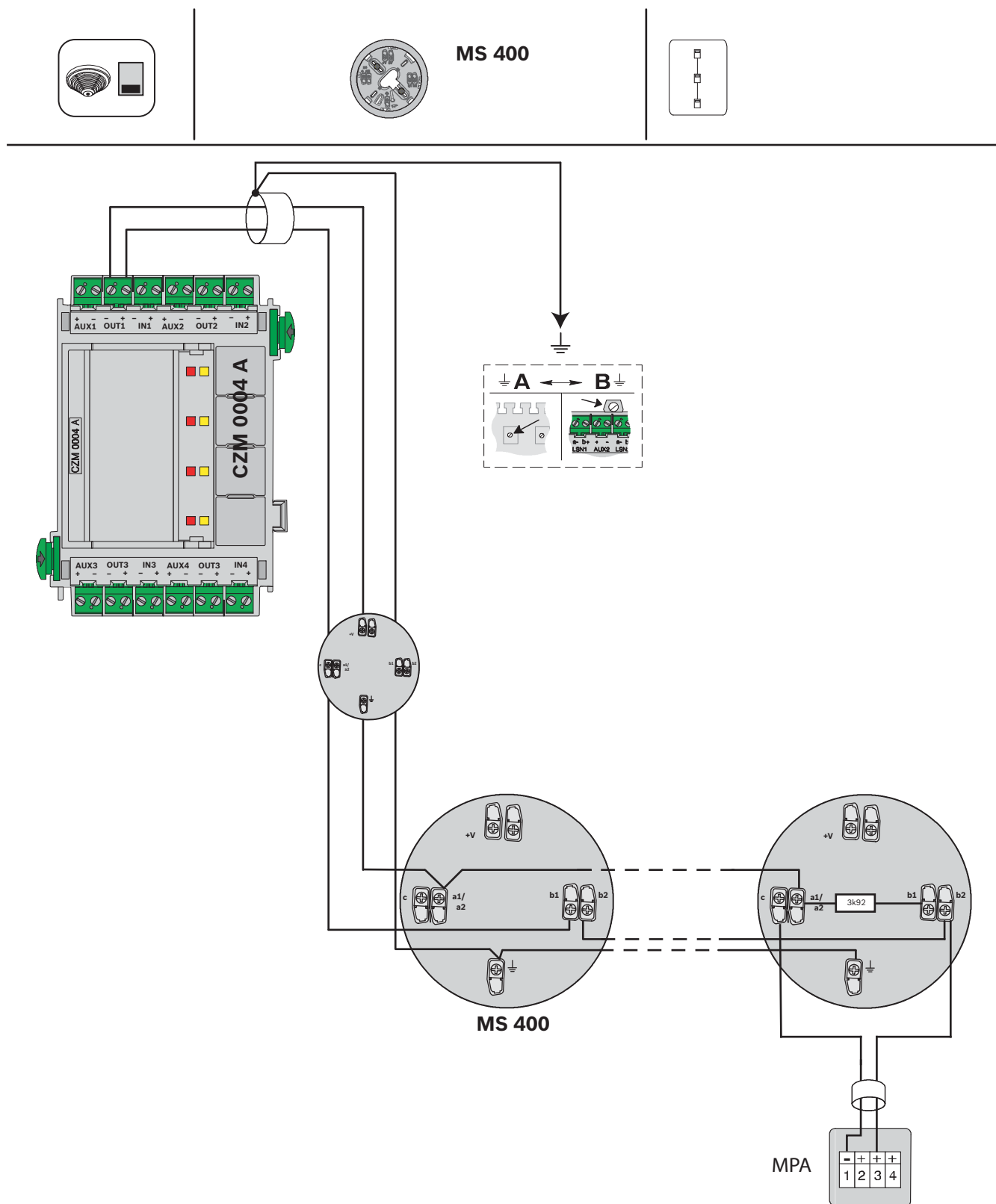
FRay5000-series





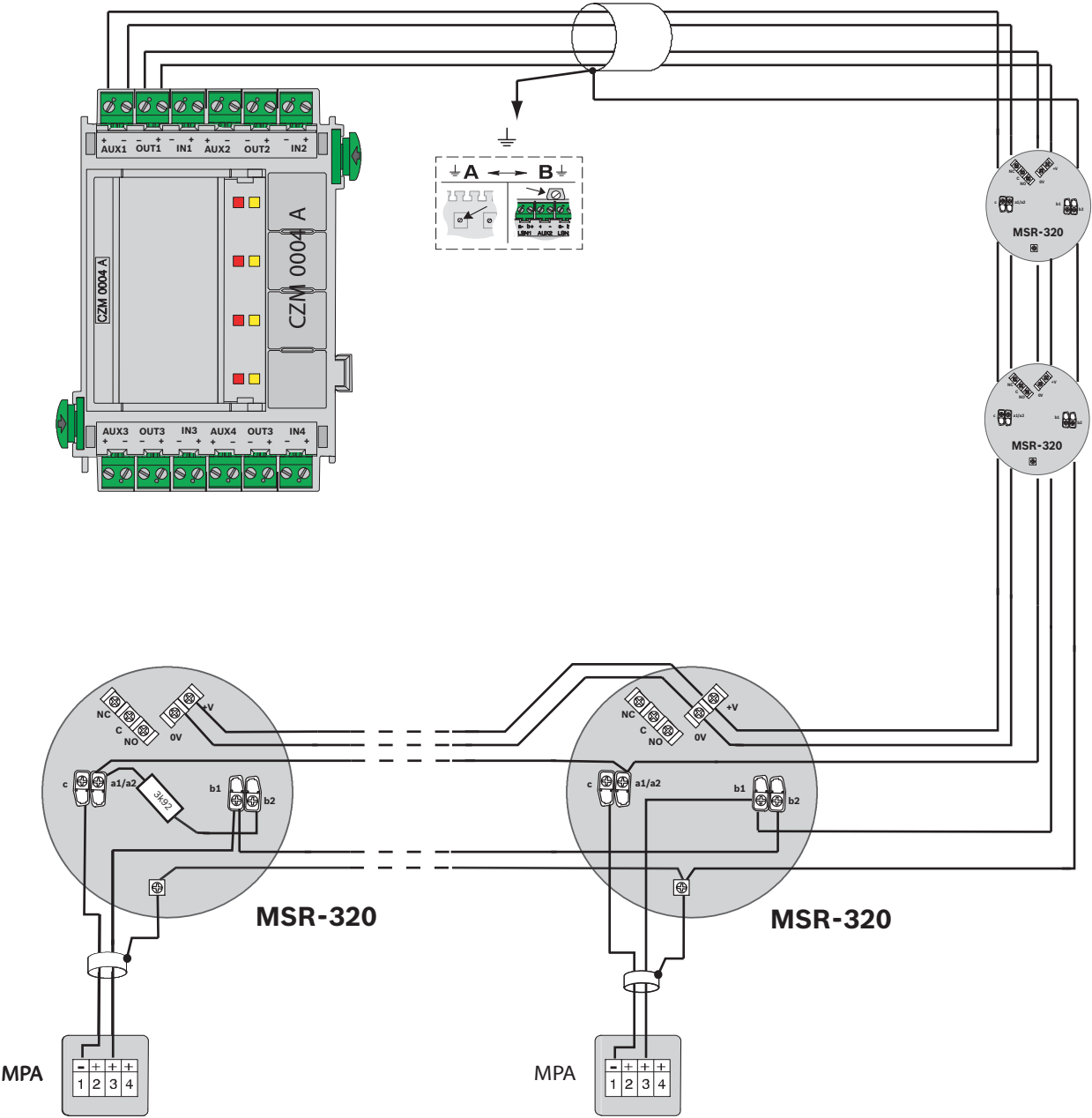
FCP-500
FCP-520





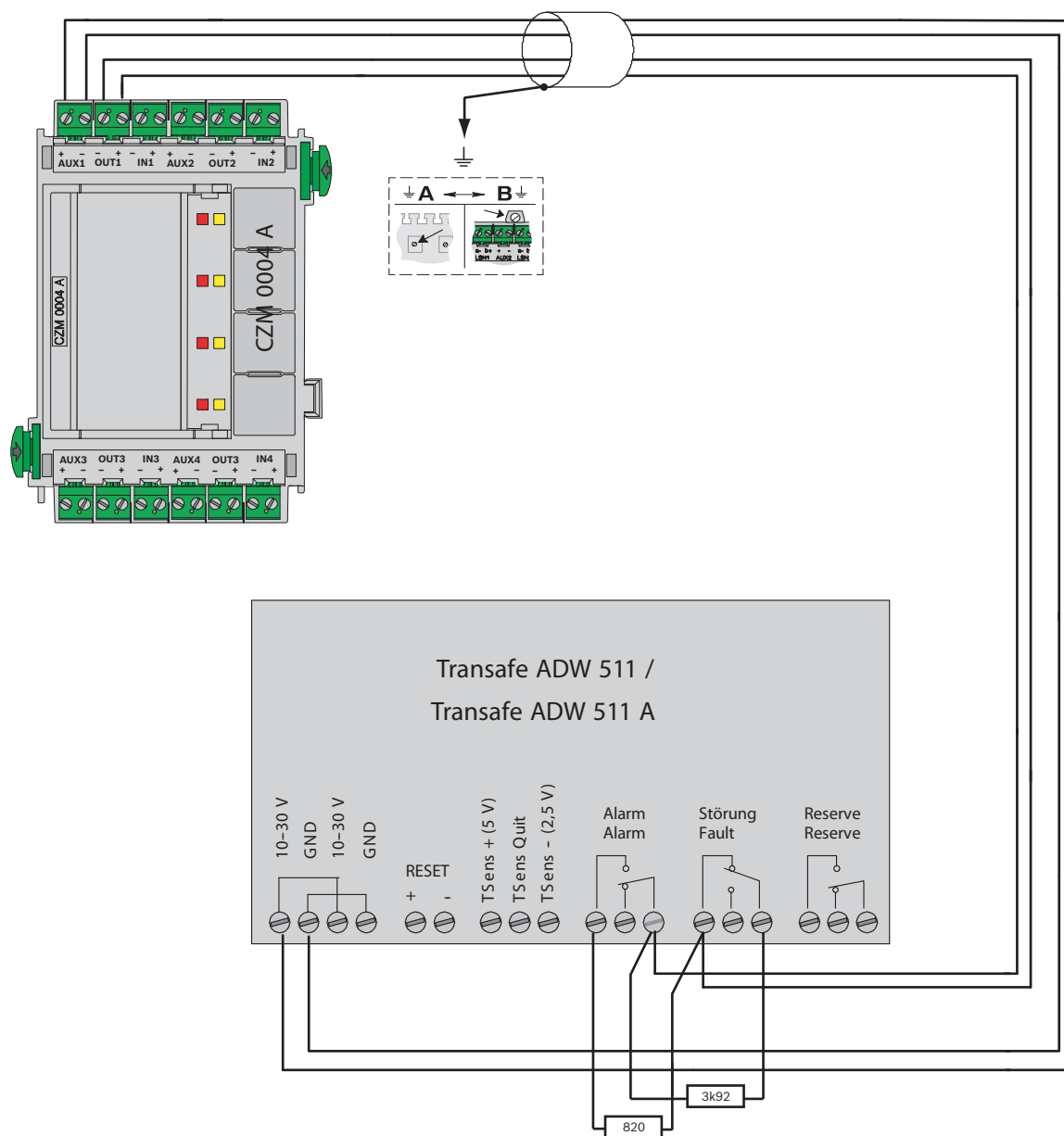


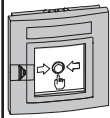
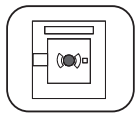
MSR 320



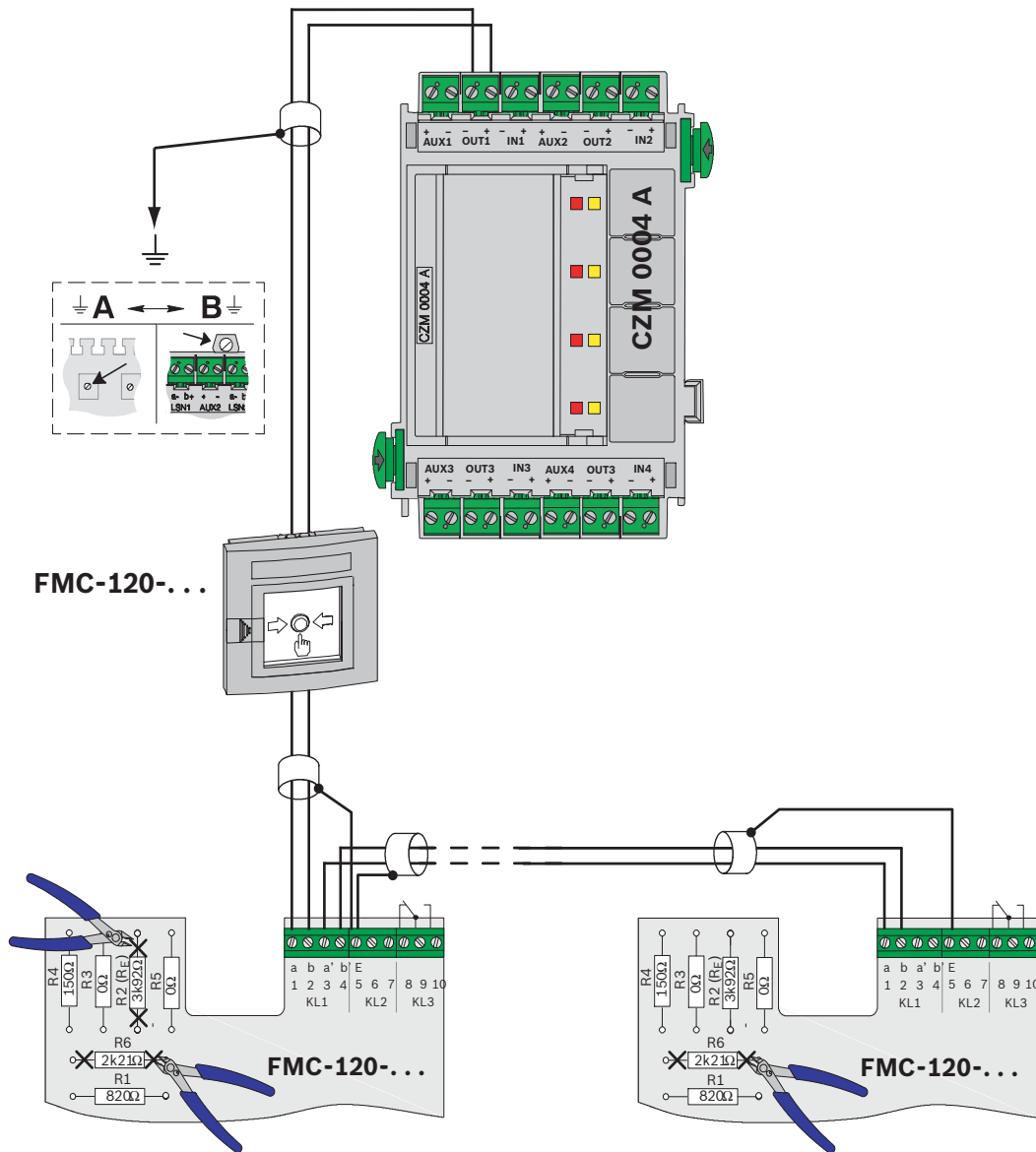
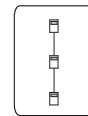


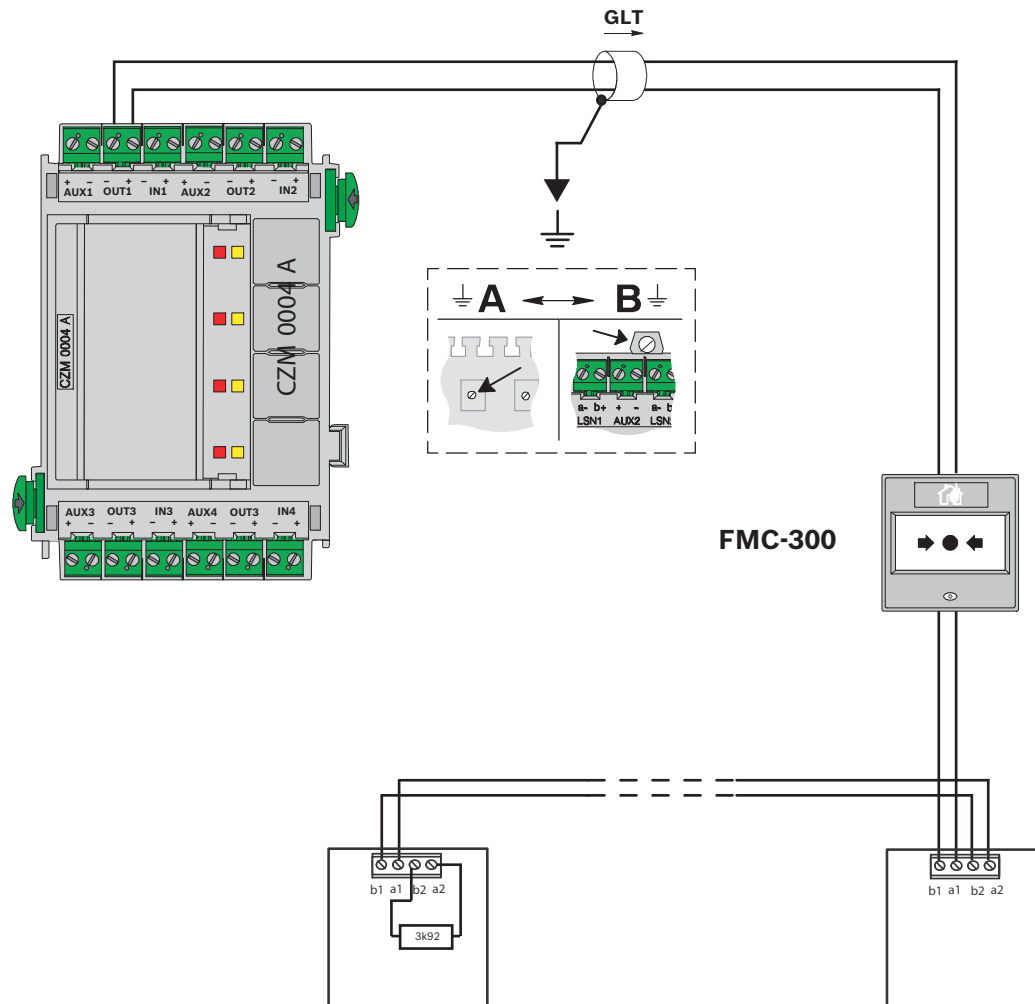
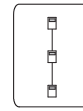
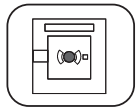
Transafe ADW 511
Transafe ADW 511A

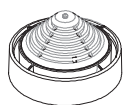
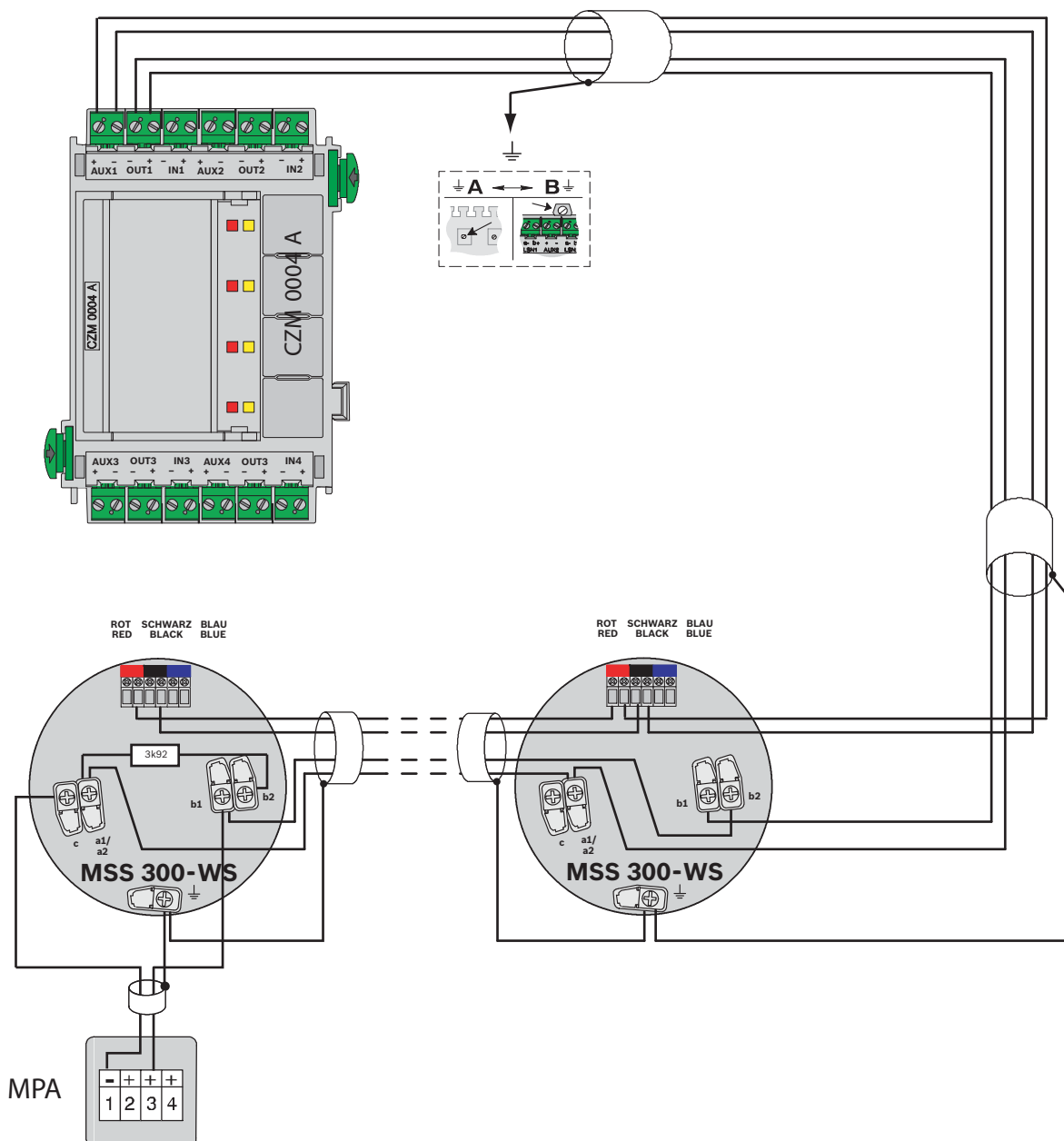


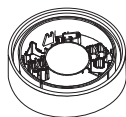
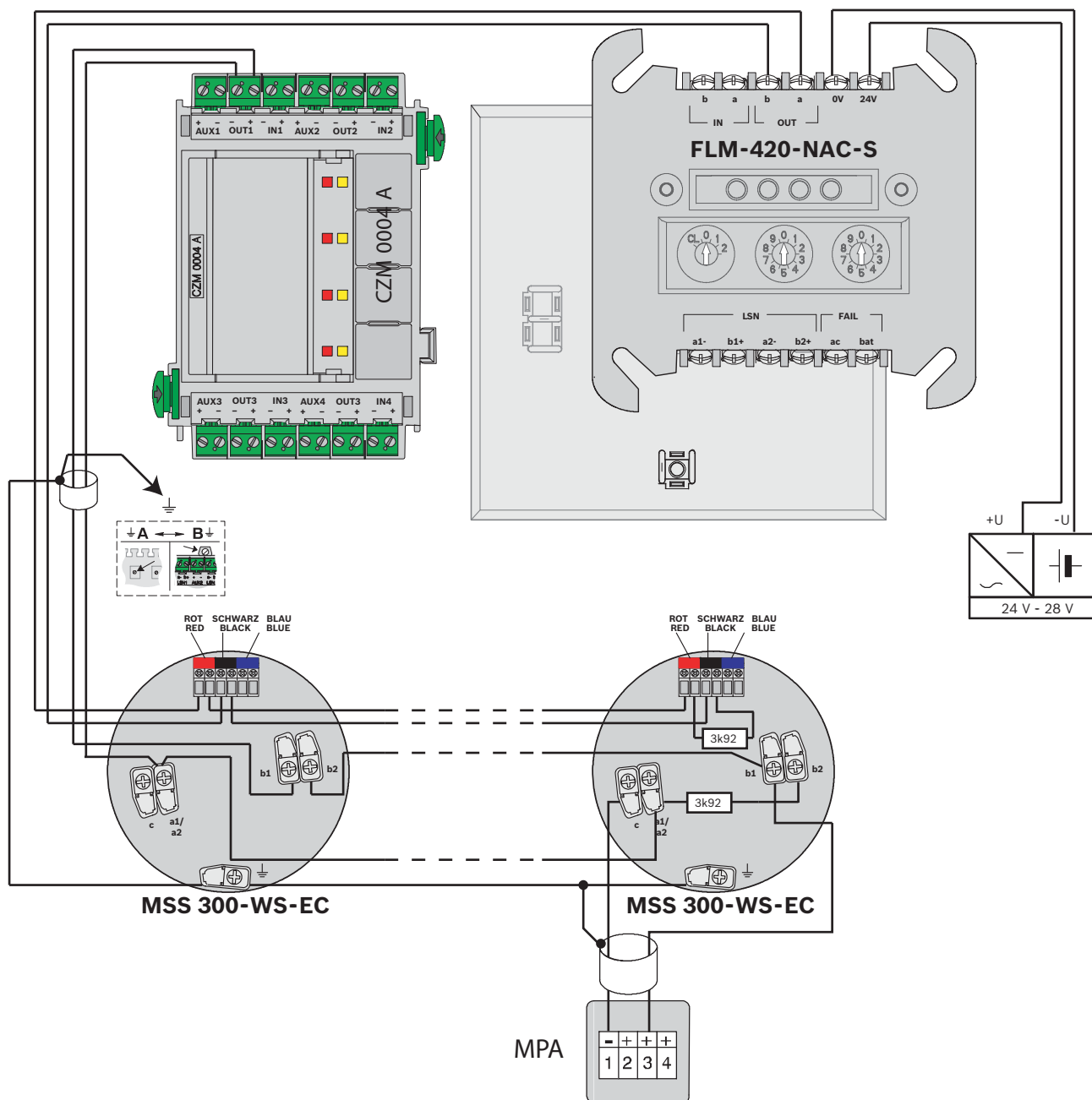


FMC-120-DKM-G-R **FMC-120-DKM-G-Y**
FMC-120-DKM-H-R **FMC-120-EST-G-B**
FMC-120-DKM-G-B
FMC-120-DKM-H-B





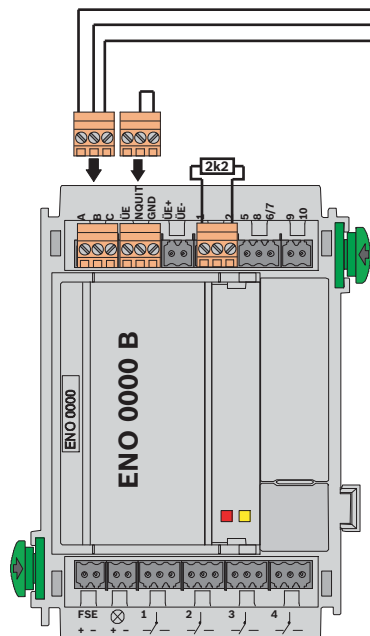
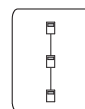
**MSS 300-WS**

**MSS 300-WS-EC**

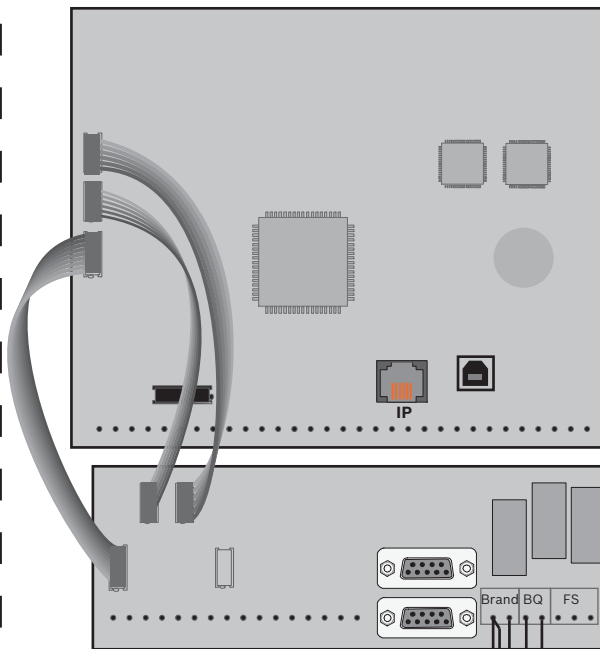
2.4.2 **ENO 0000 A/B**

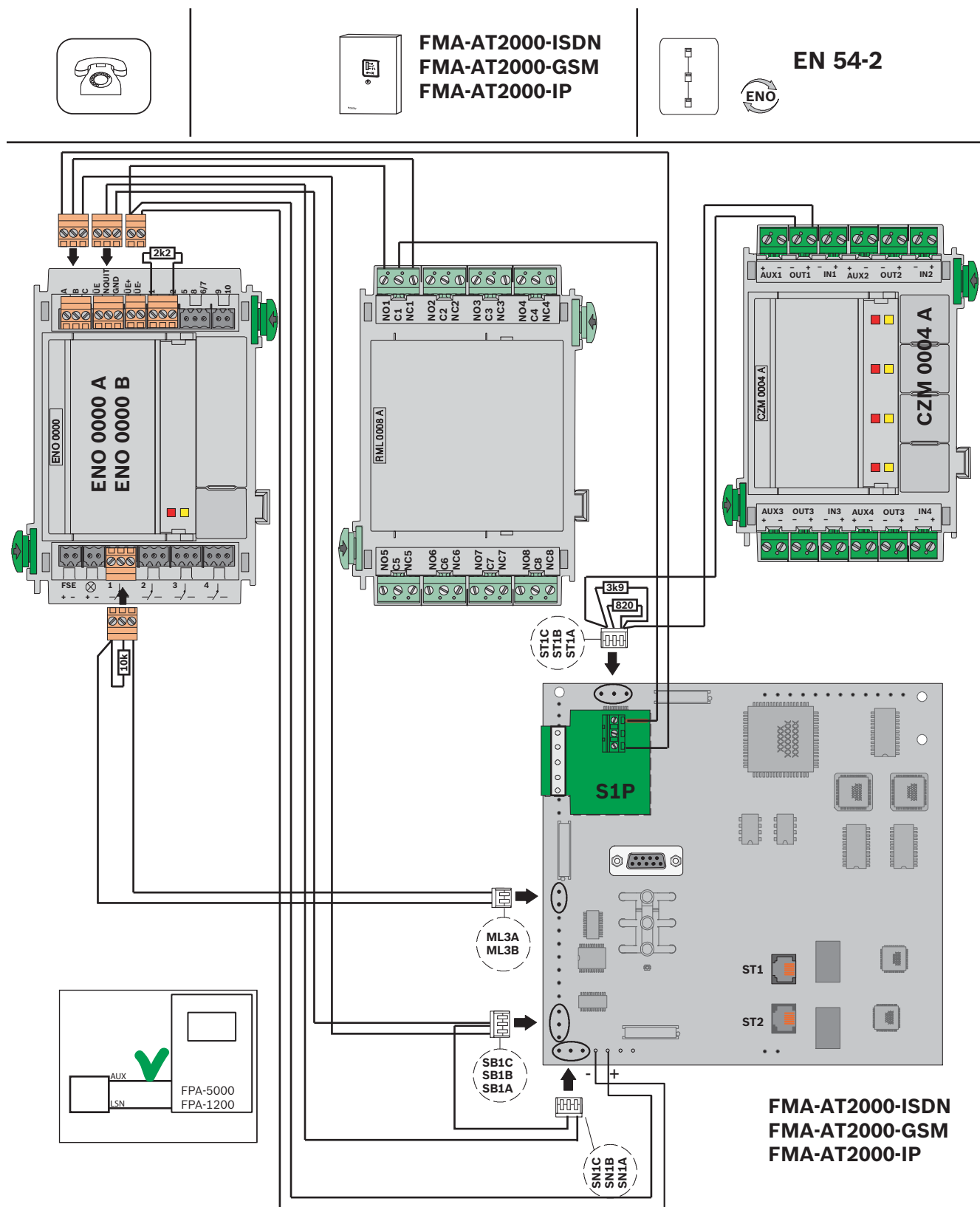


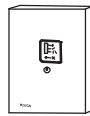
**AT 3000 IP/GSM
AT 3000 IP/GSM/Analog
AT 3000 IP/GSM/ISDN**



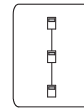
**AT 3000 IP/GSM
AT 3000 IP/GSM/Analog
AT 3000 IP/GSM/ISDN**



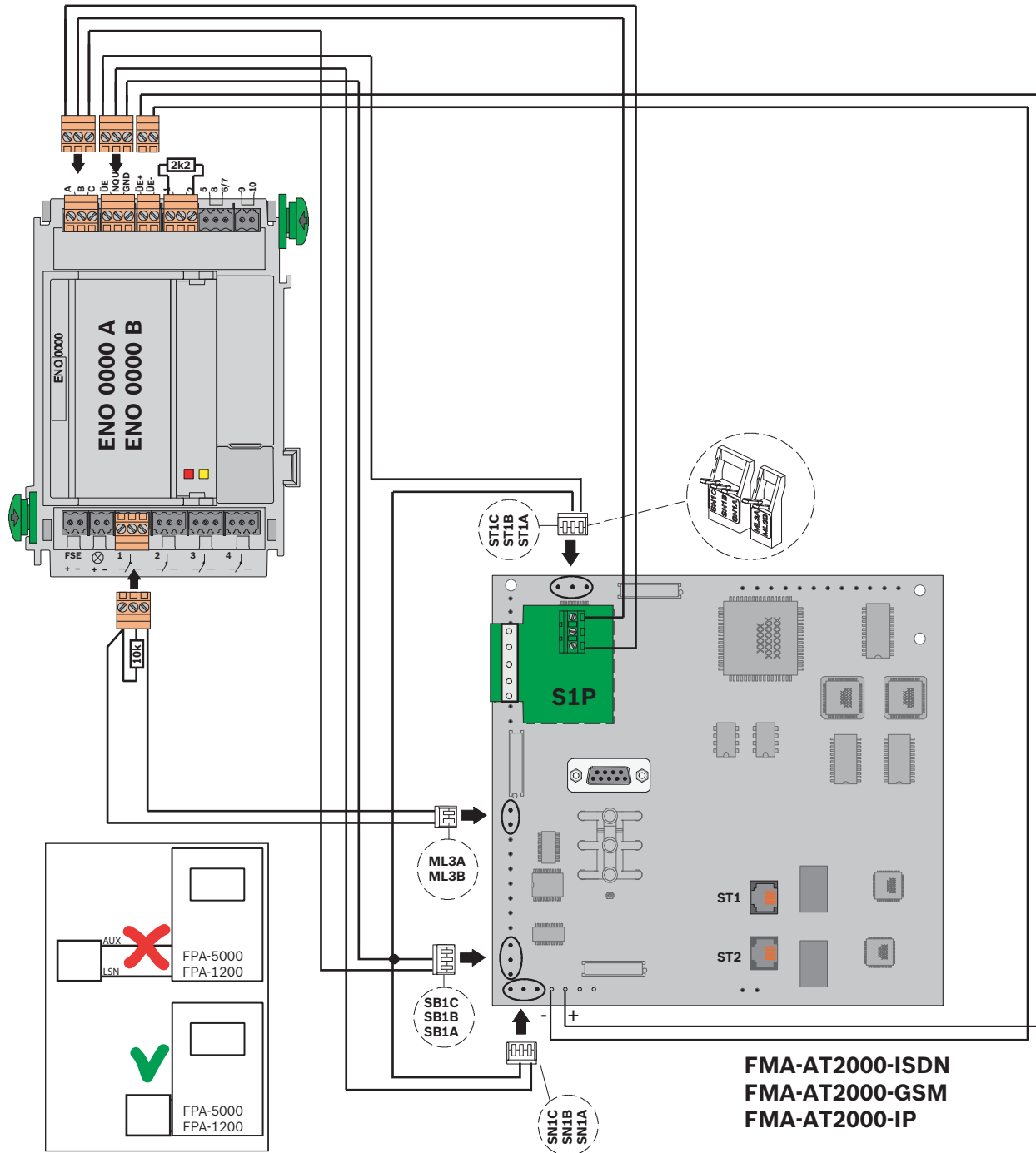


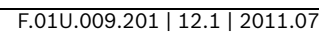


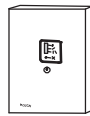
FMA-AT2000-ISDN
FMA-AT2000-GSM
FMA-AT2000-IP



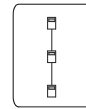
EN 54-2



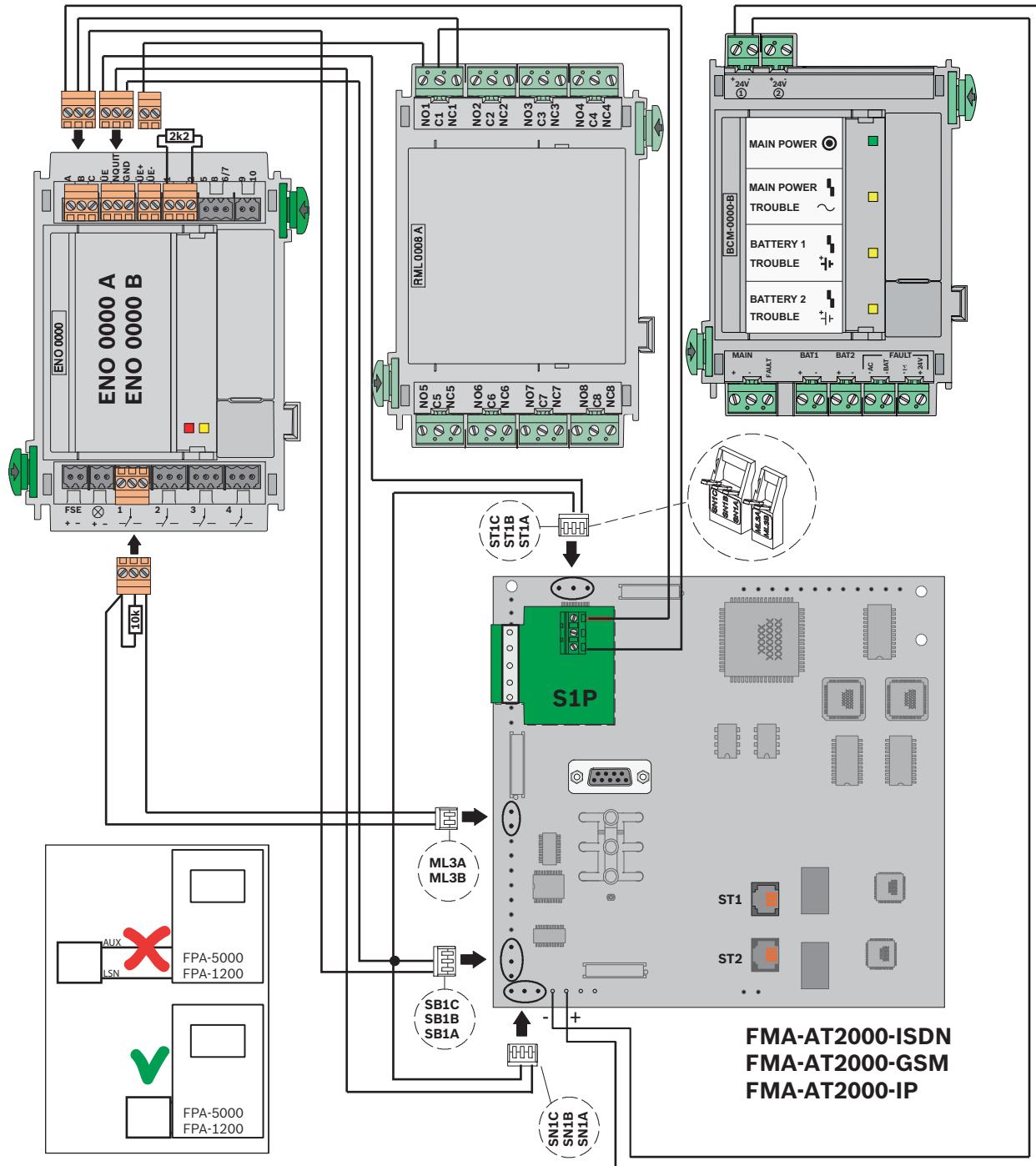


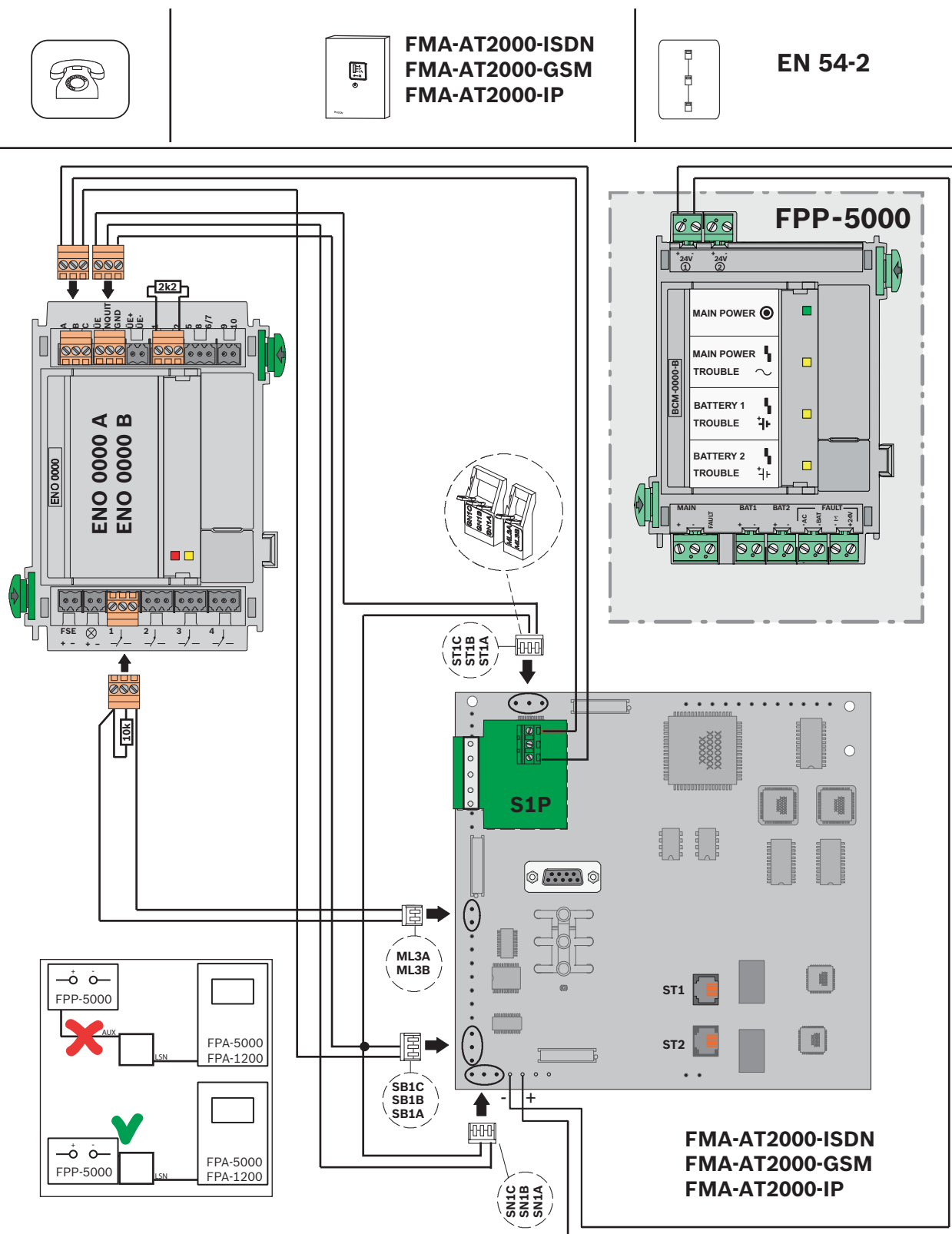


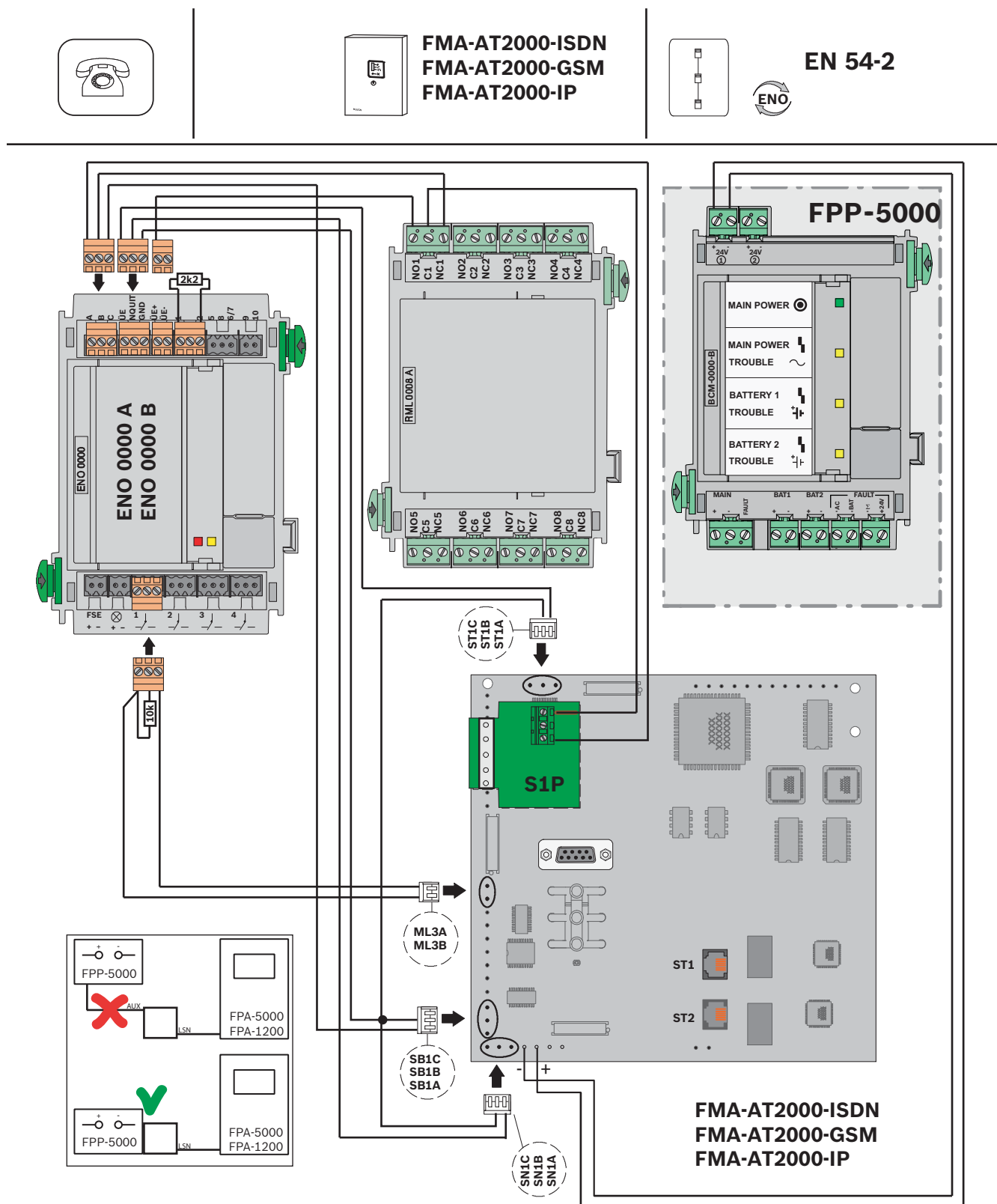
FMA-AT2000-ISDN
FMA-AT2000-GSM
FMA-AT2000-IP

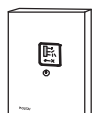


EN 54-2

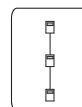




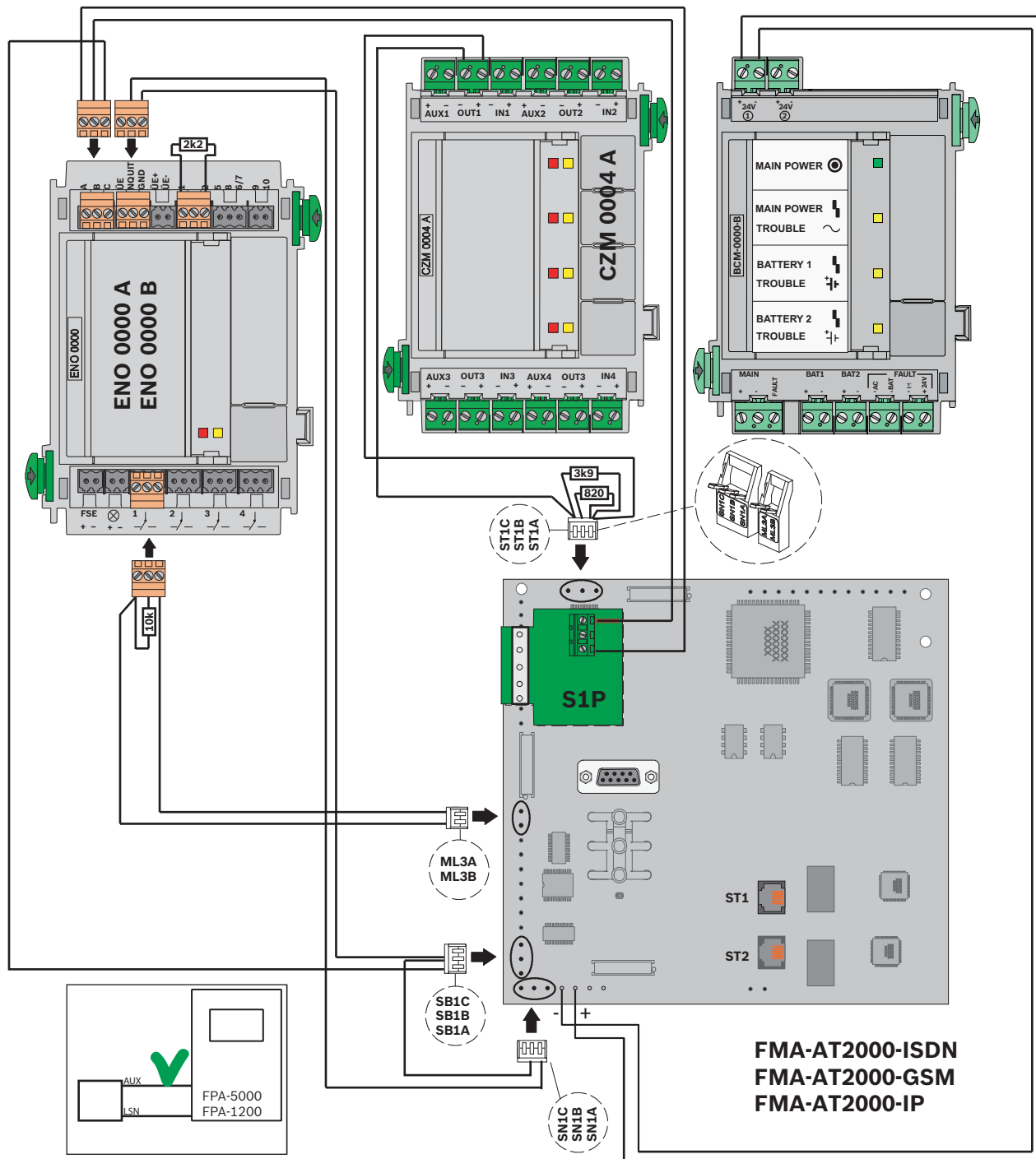


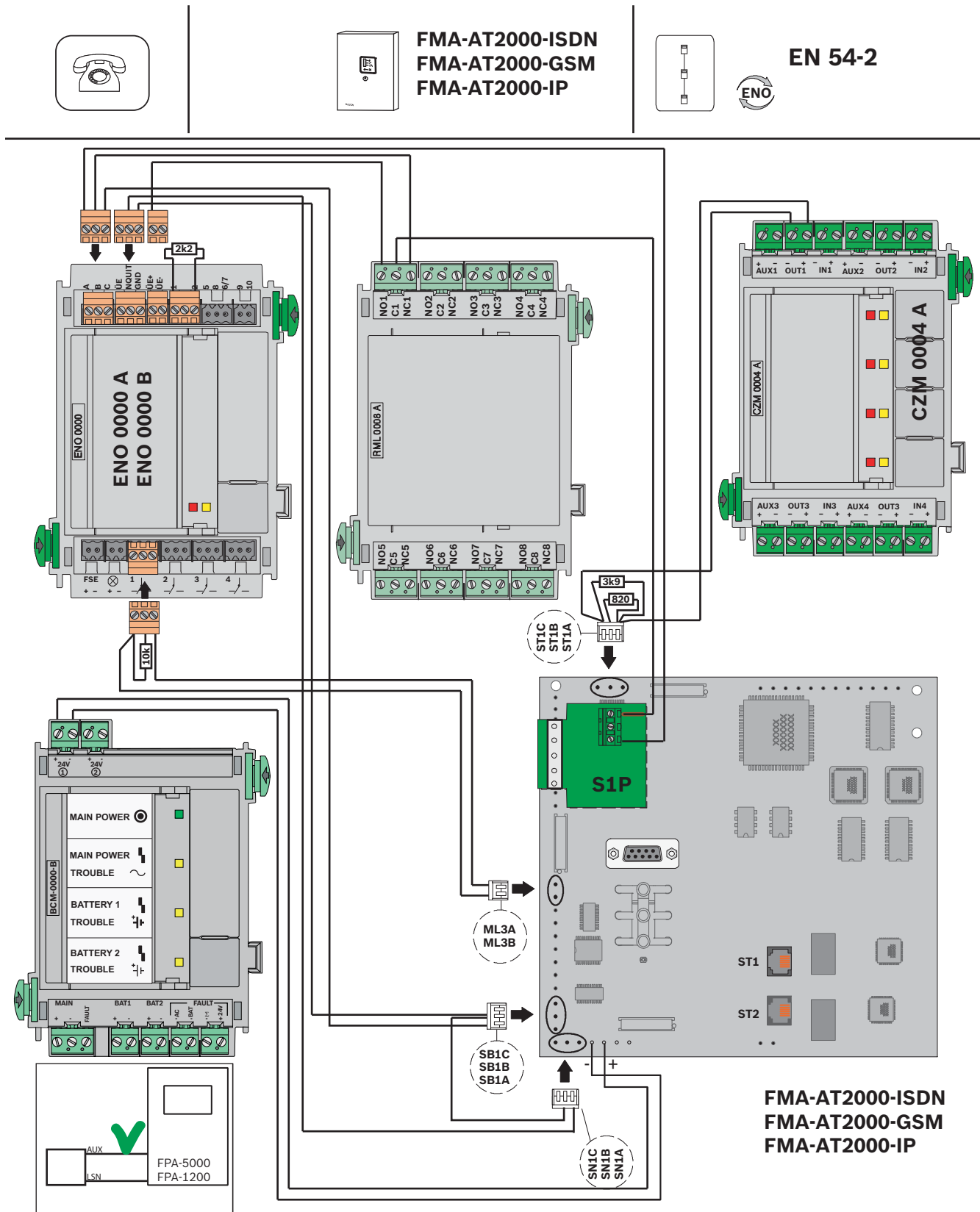


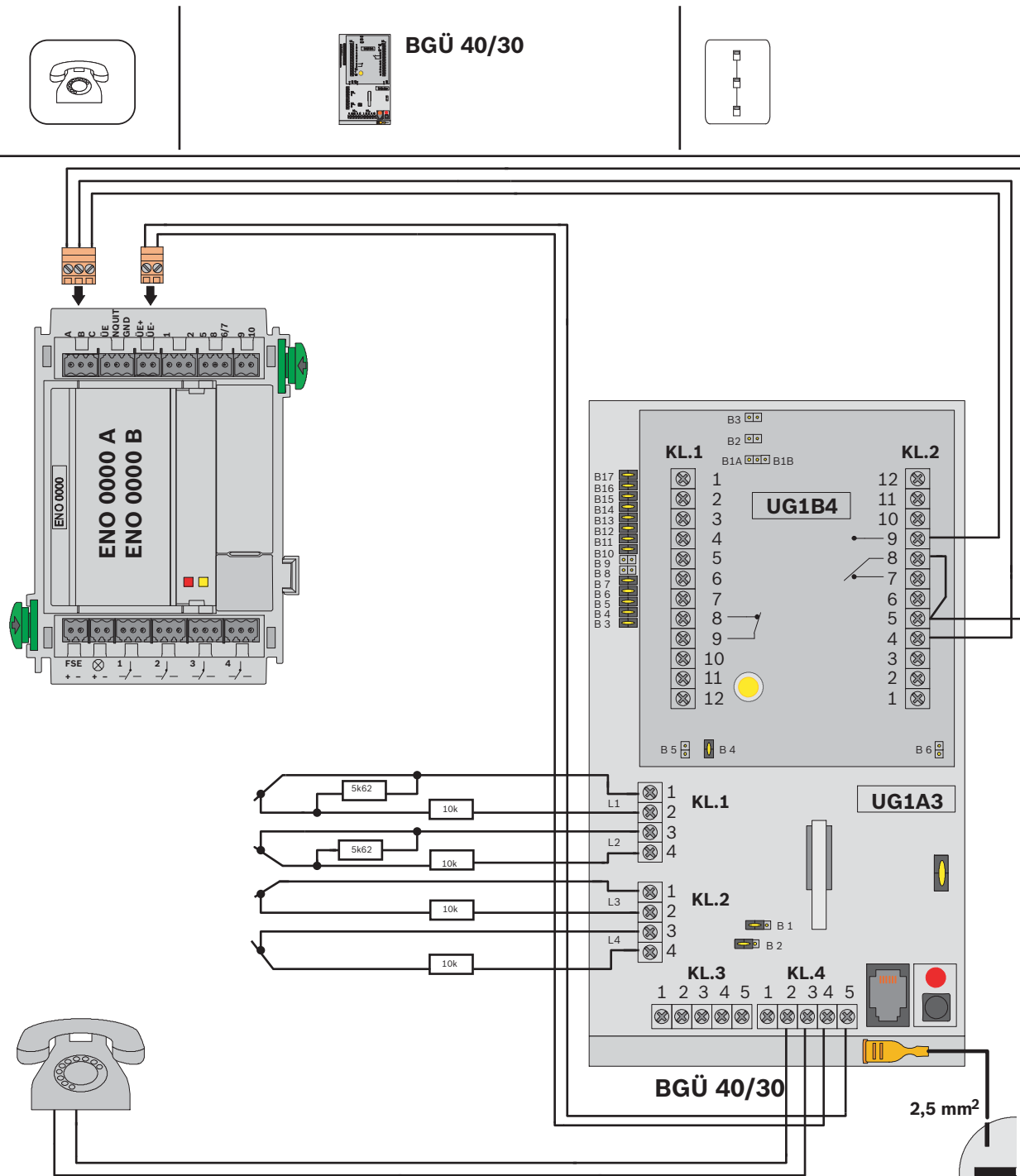
FMA-AT2000-ISDN
FMA-AT2000-GSM
FMA-AT2000-IP

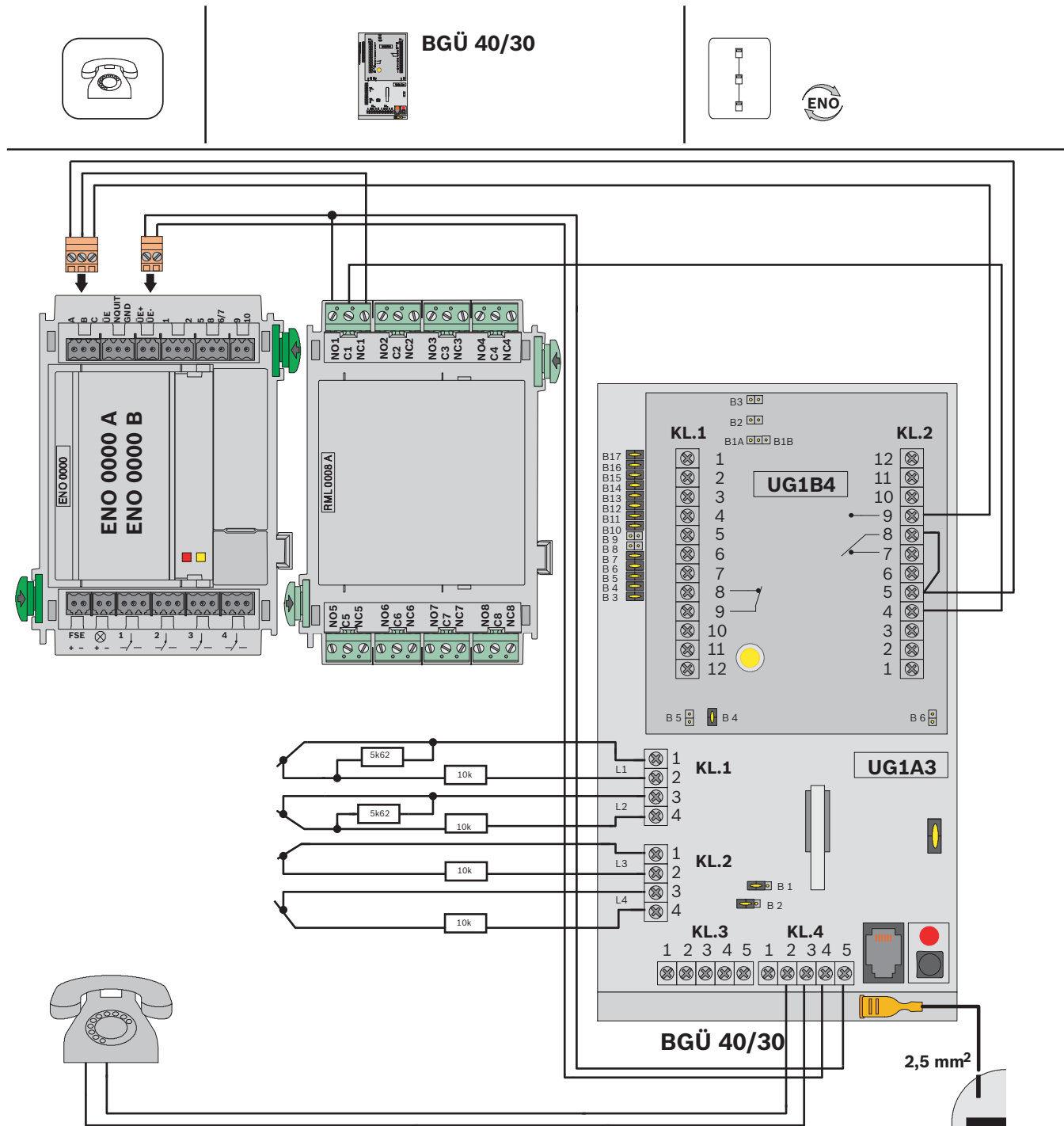


EN 54-2



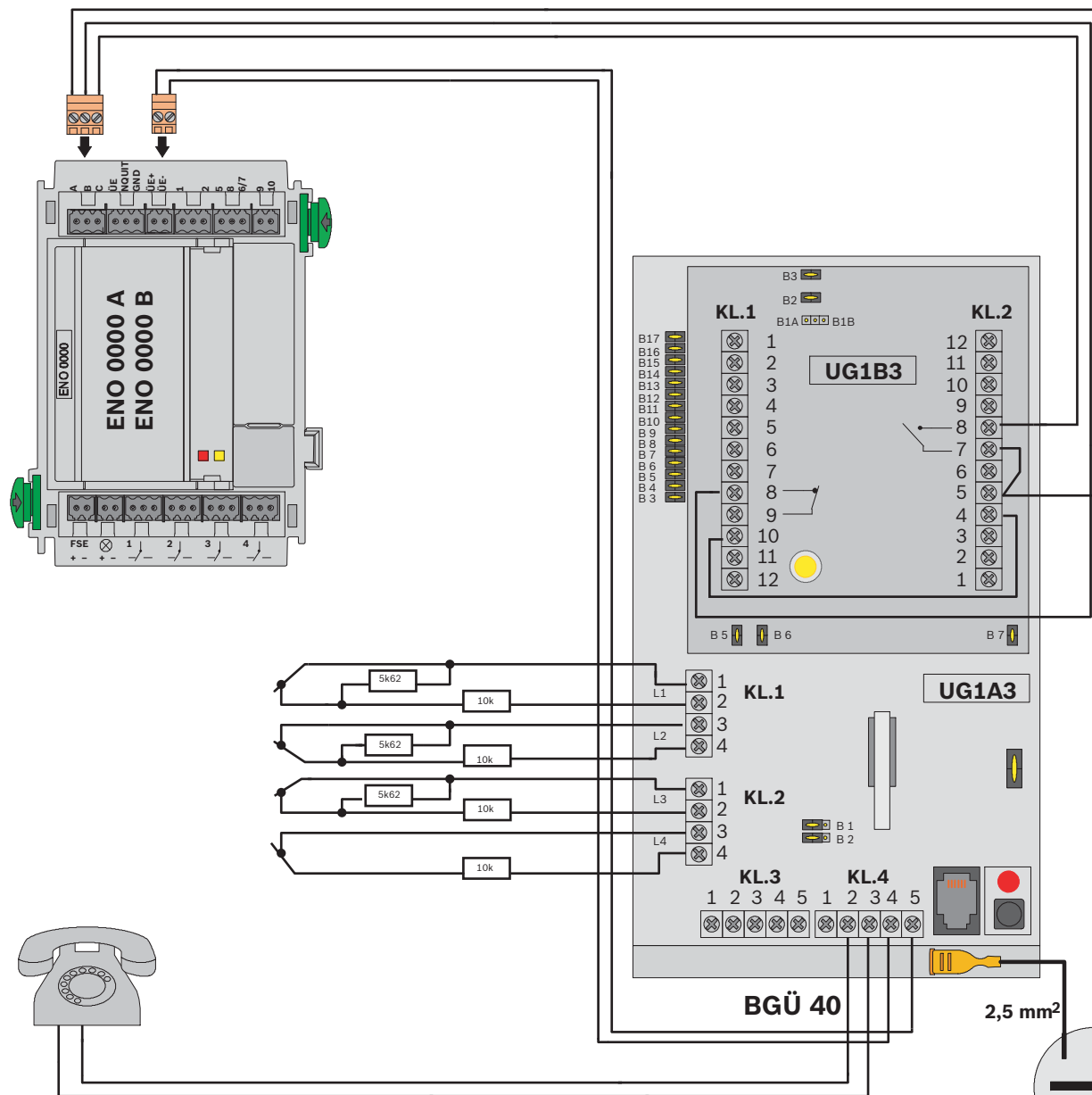
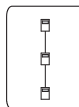


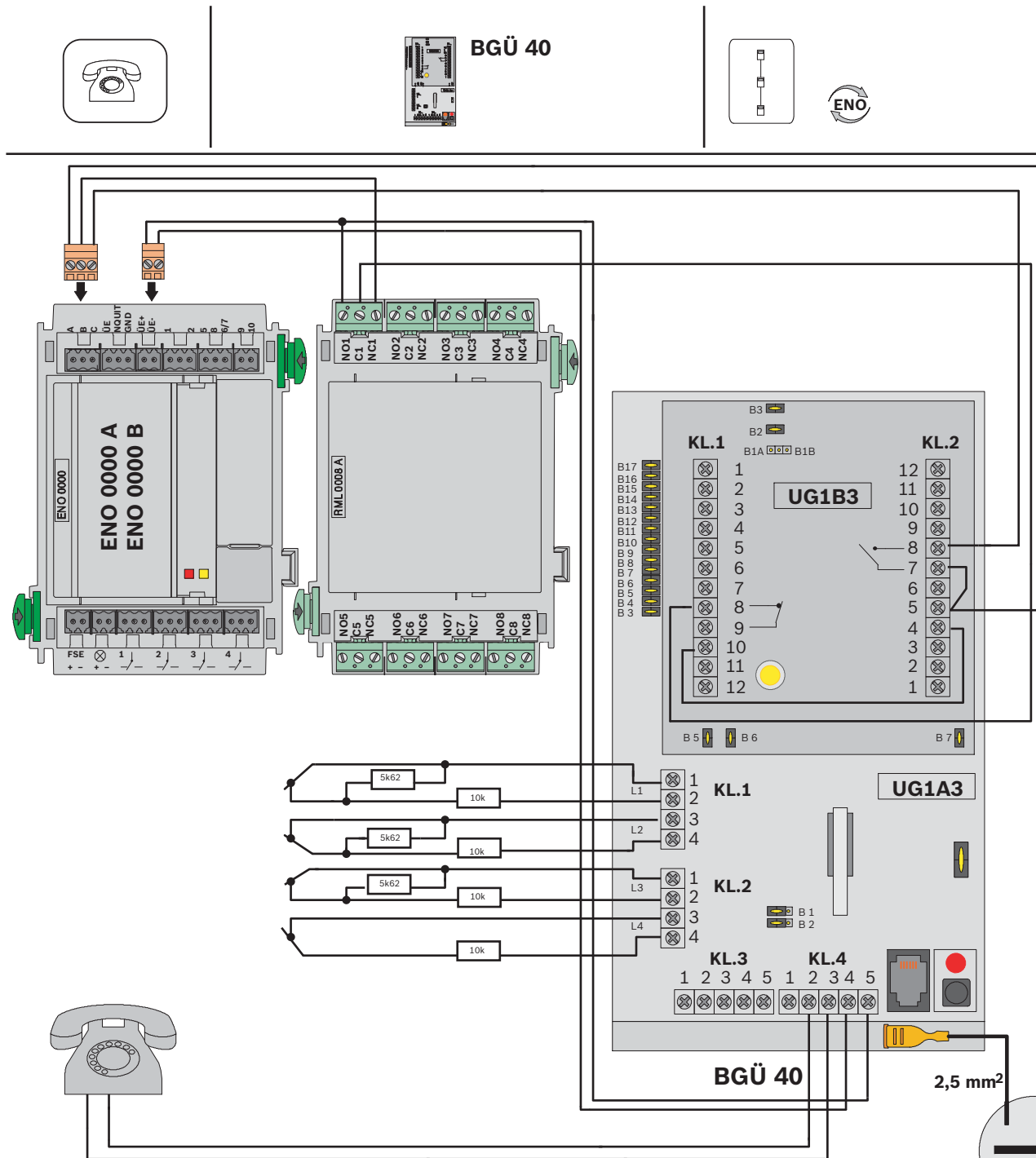


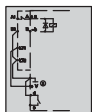
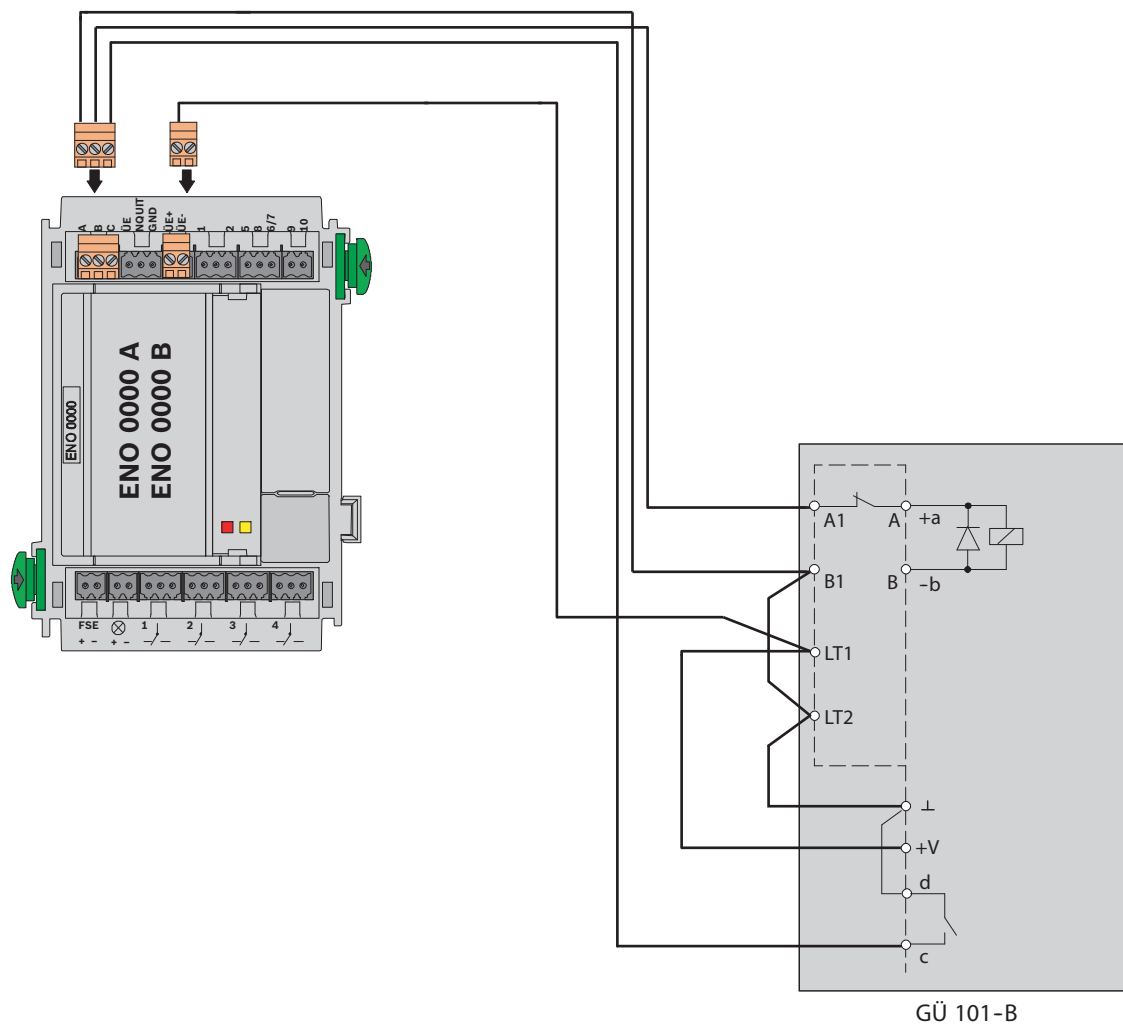
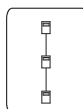


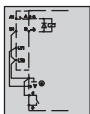


BGÜ 40

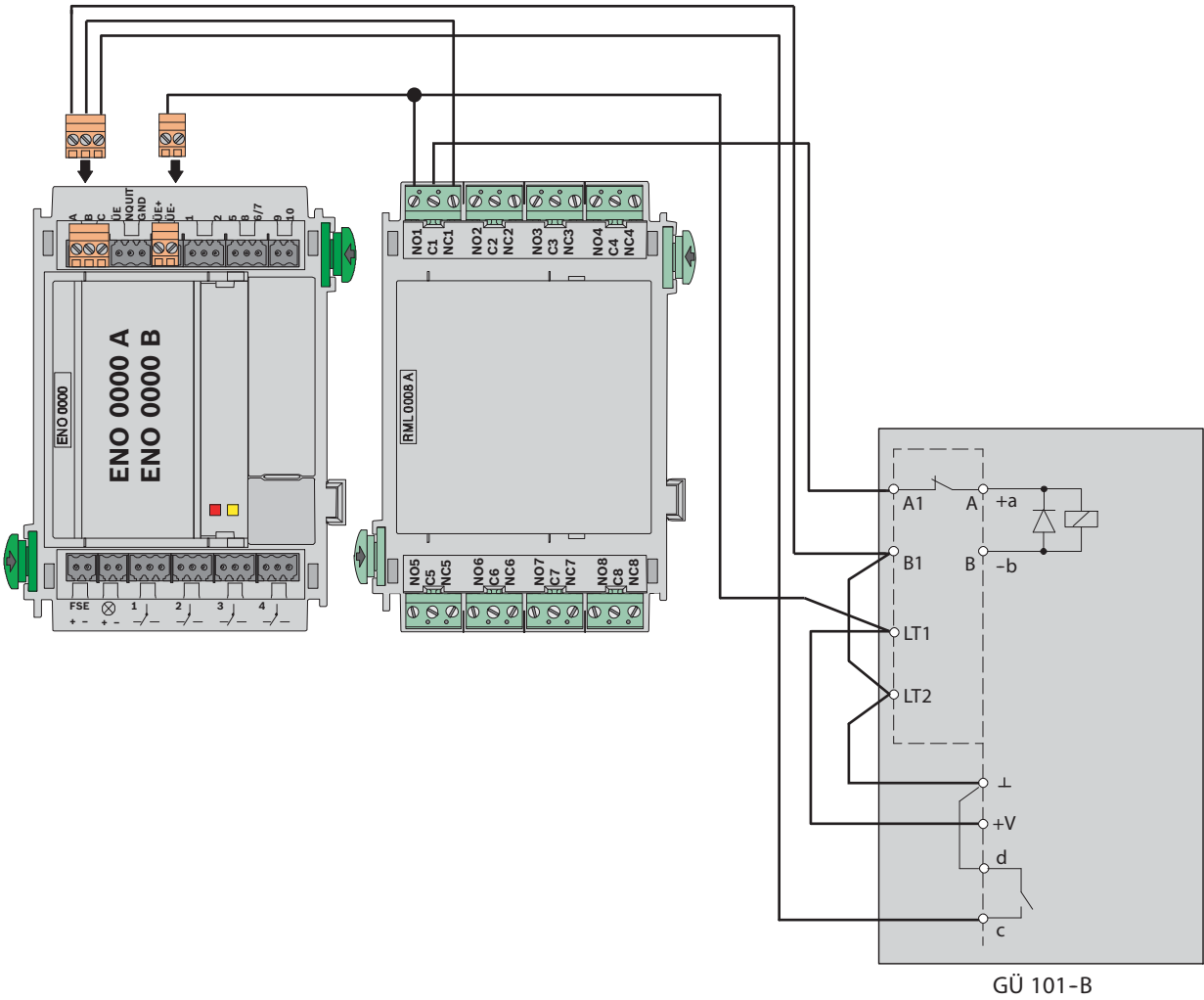
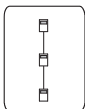


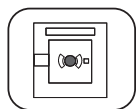
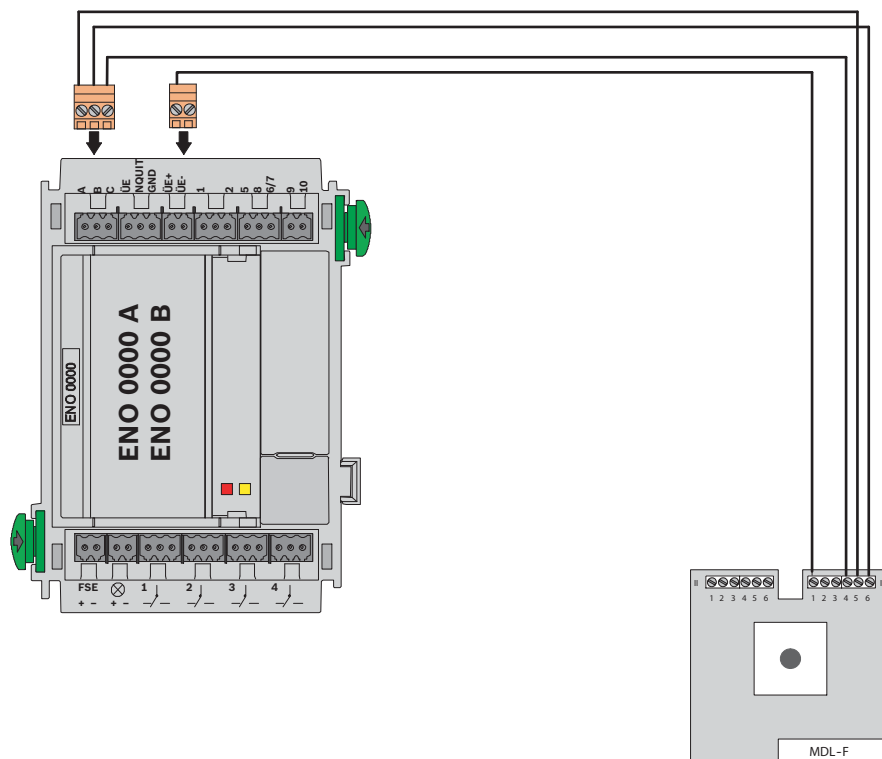


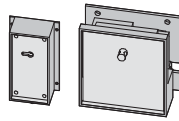
**GÜ 101-B**



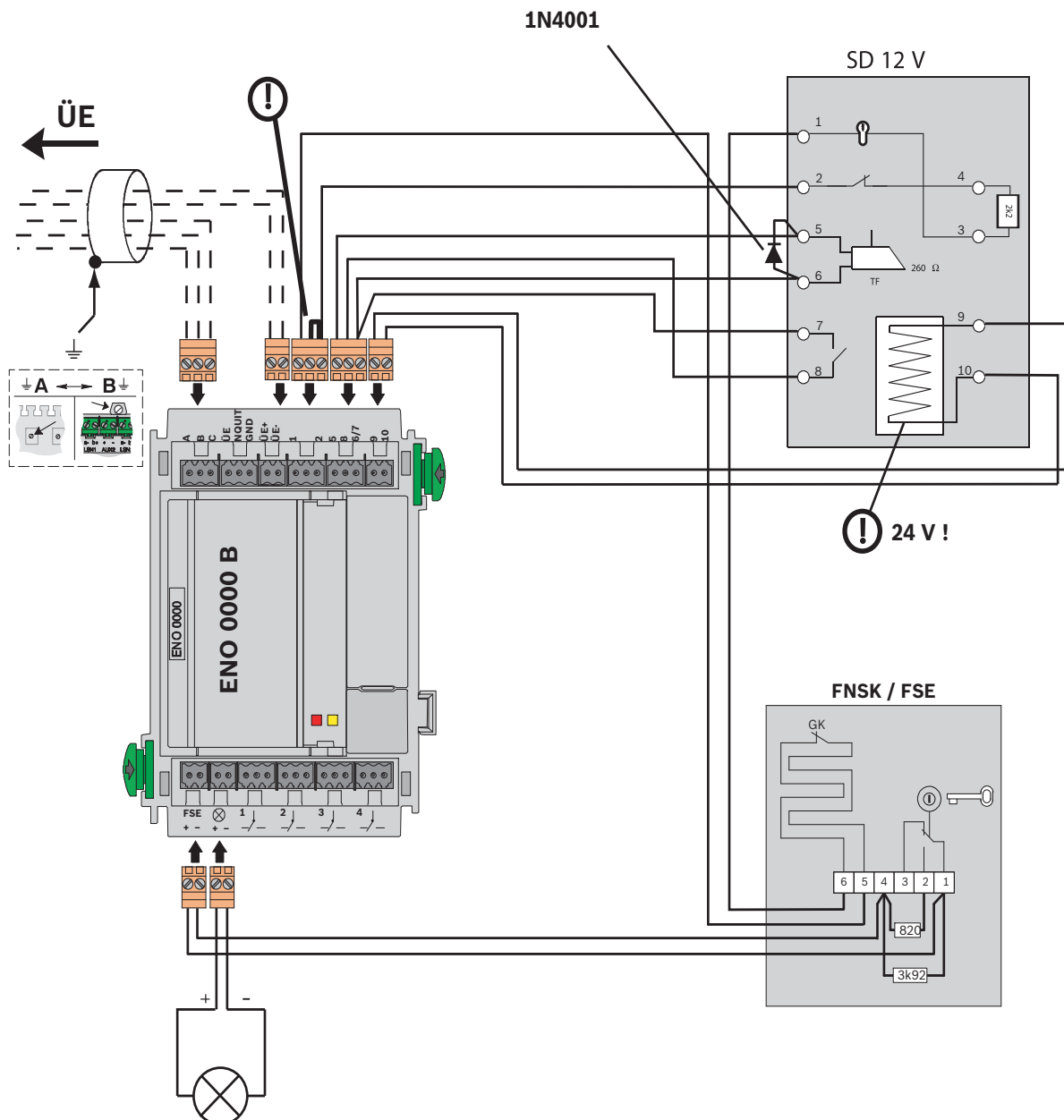
GÜ 101-B

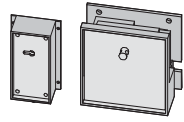


**MDL-F**

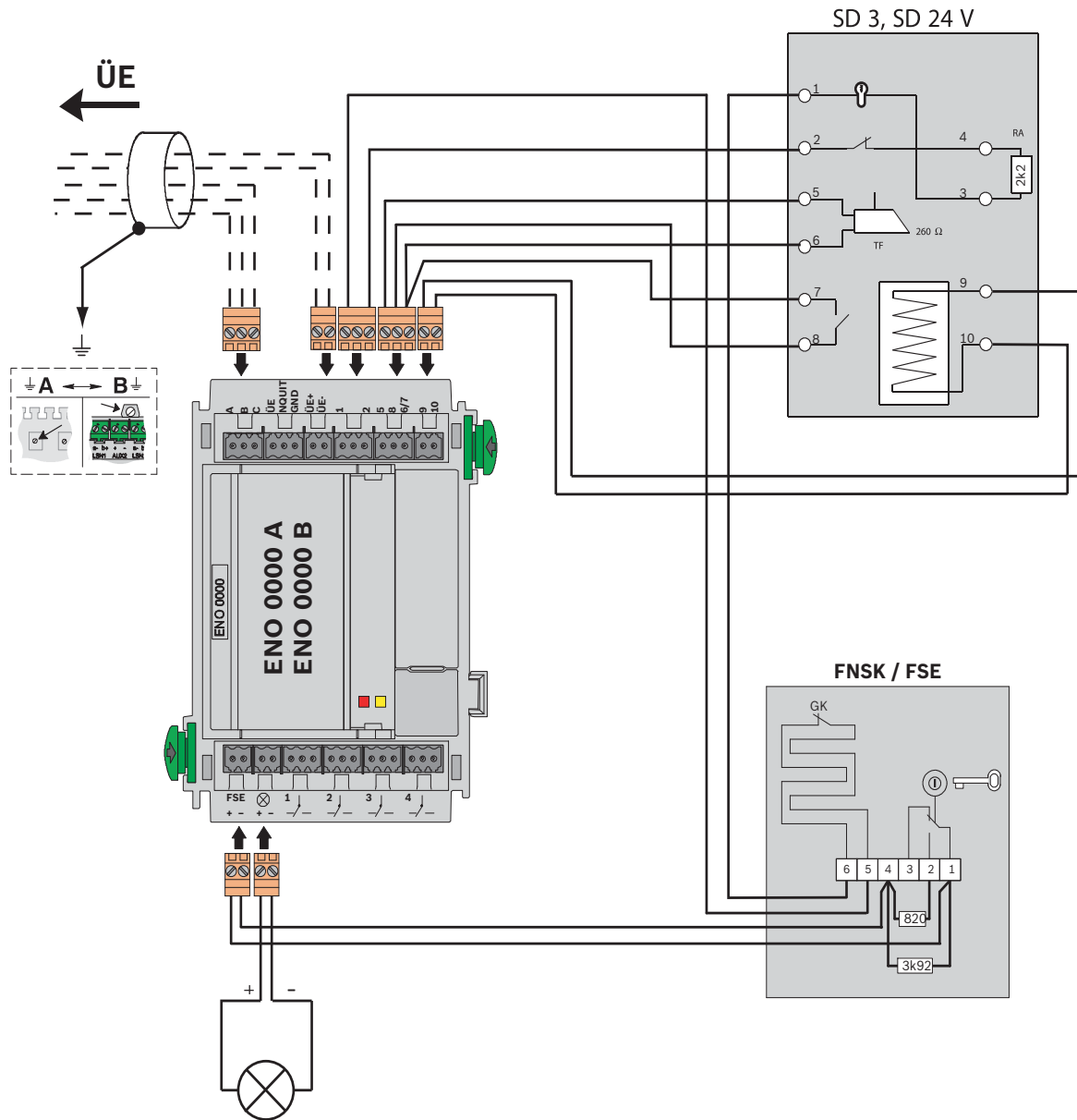


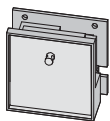
**SD 12V
FNSK**



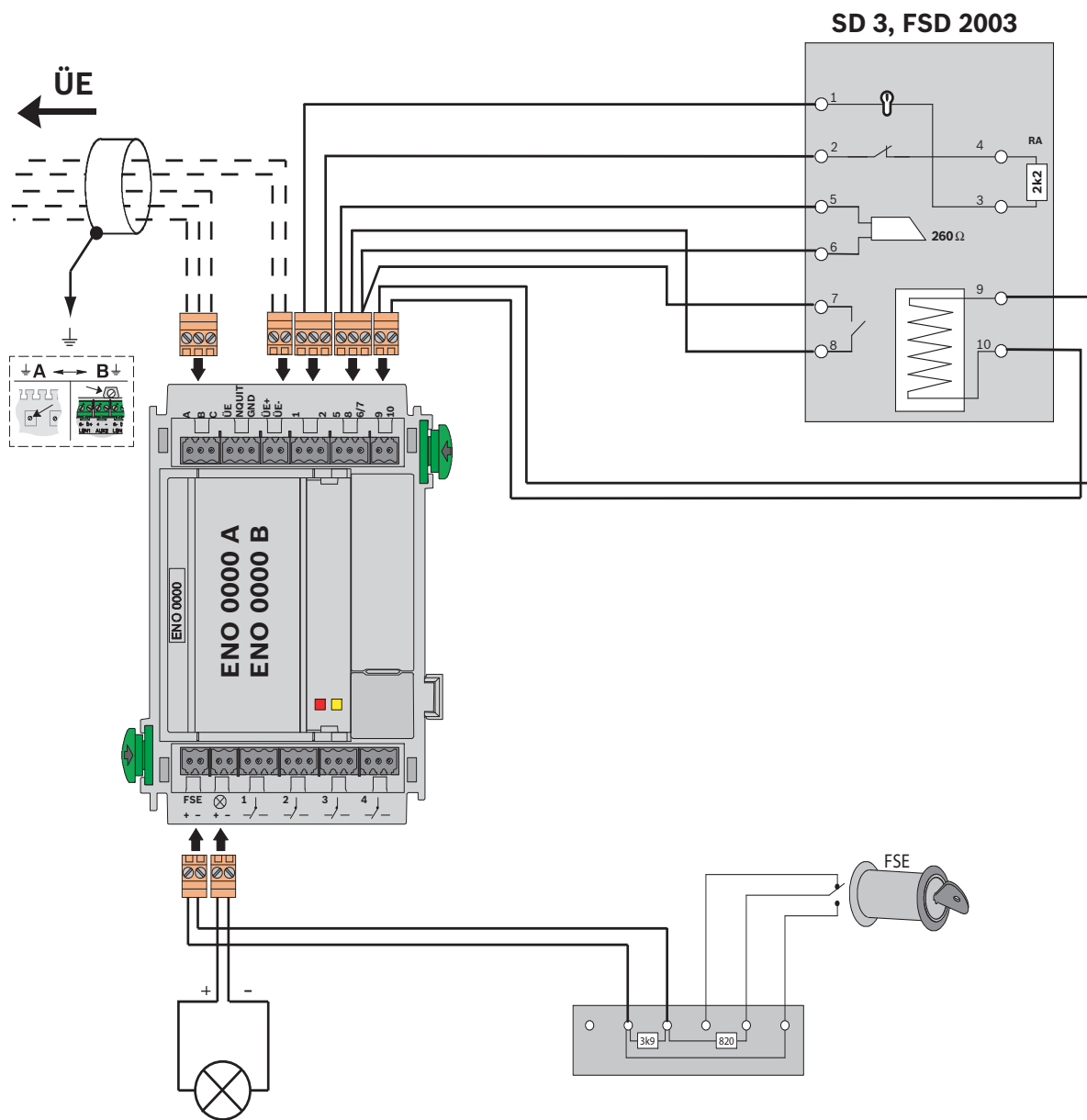


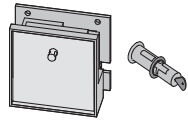
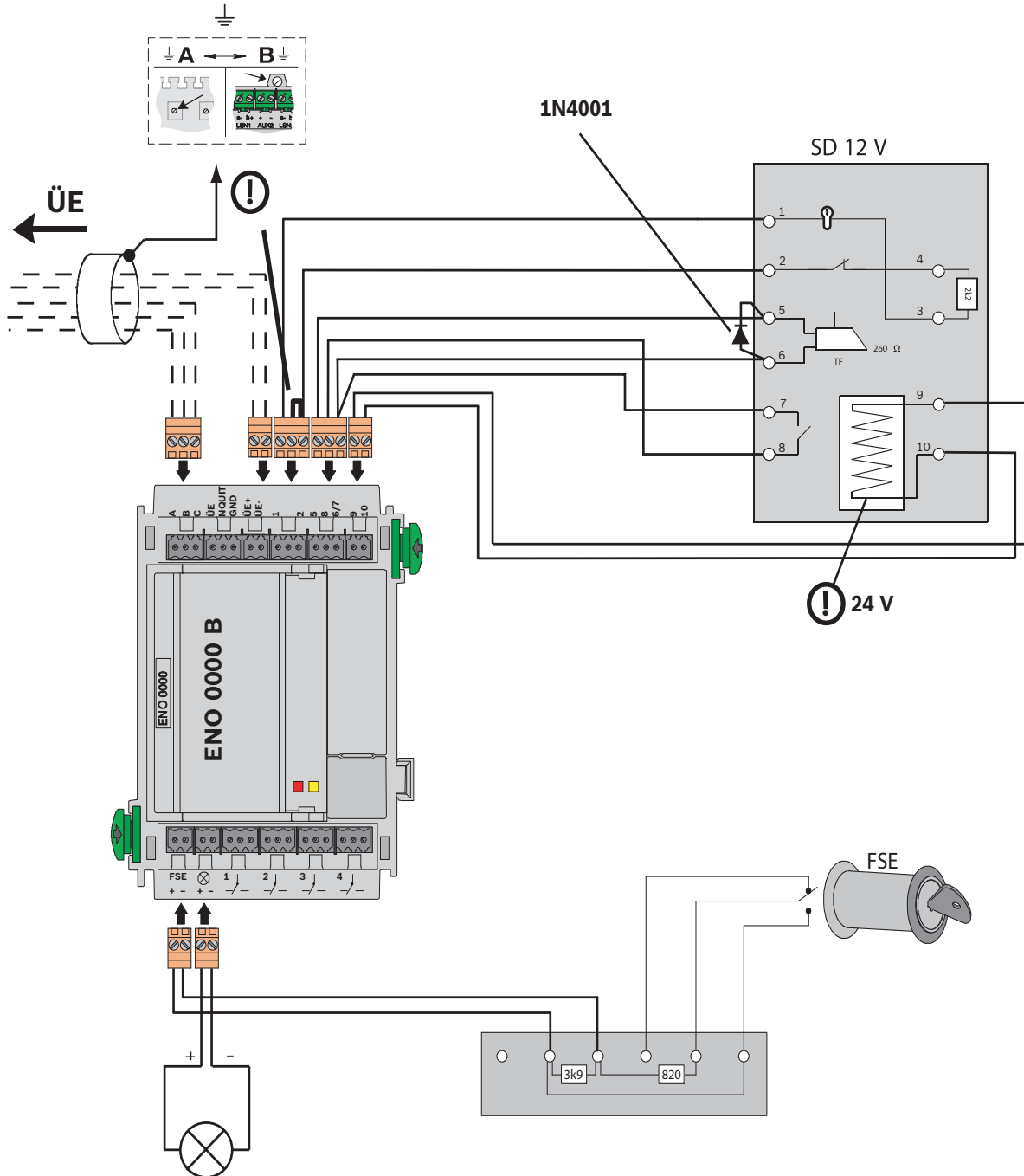
SD 3
SD 24V
FNSK

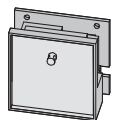




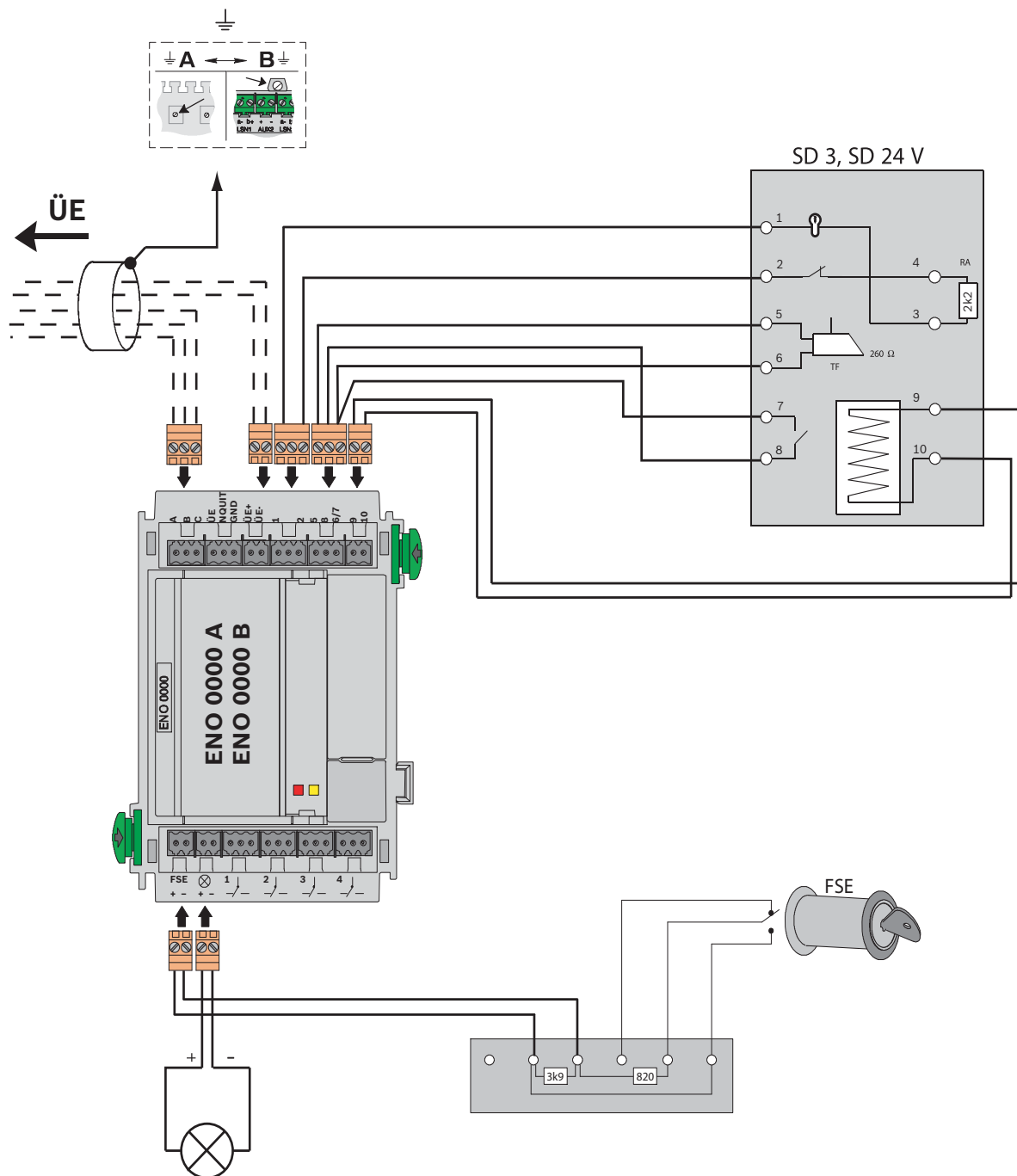
SD 3
FSD 2003
FSE

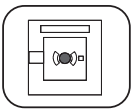


SD 12V
FSE

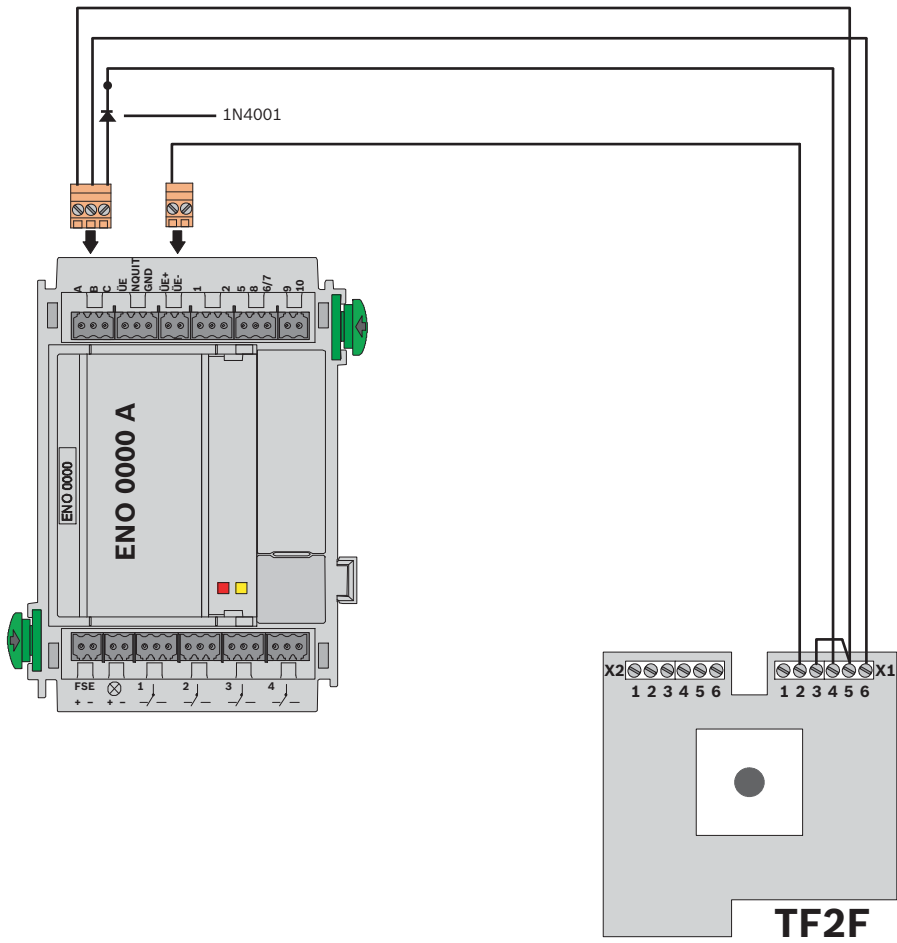
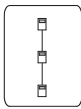


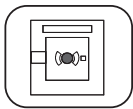
**SD 3
SD 24V
FSE**



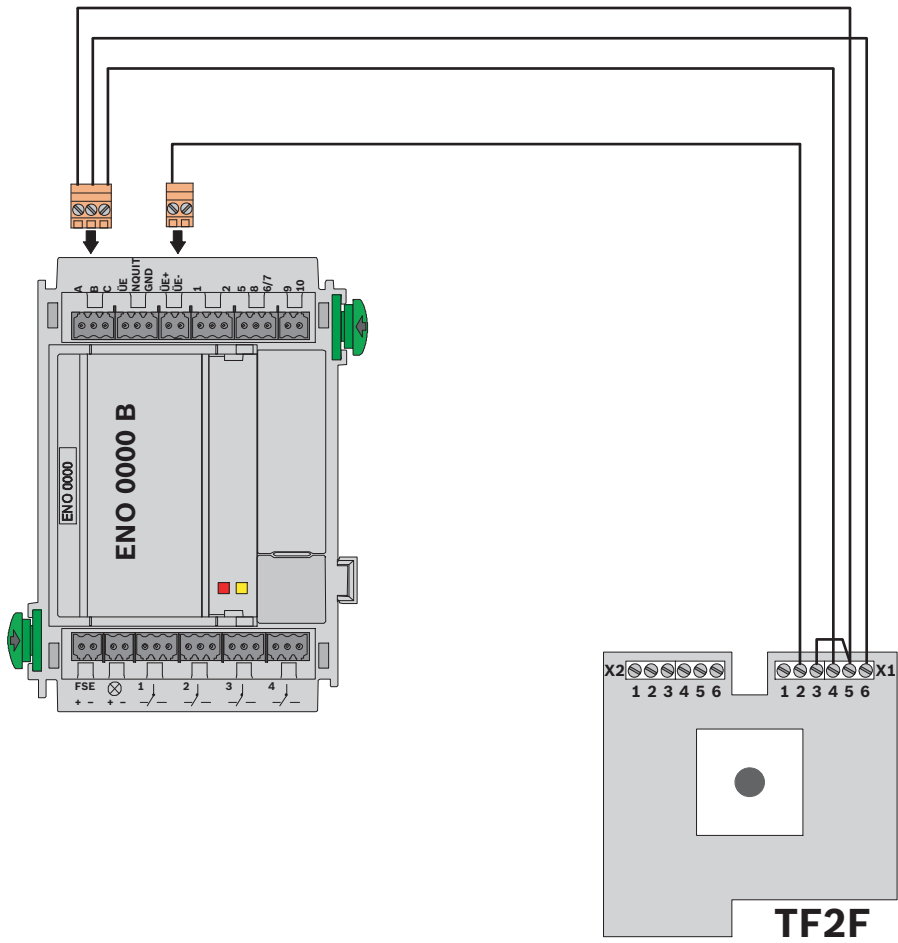
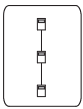


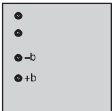
TF2F



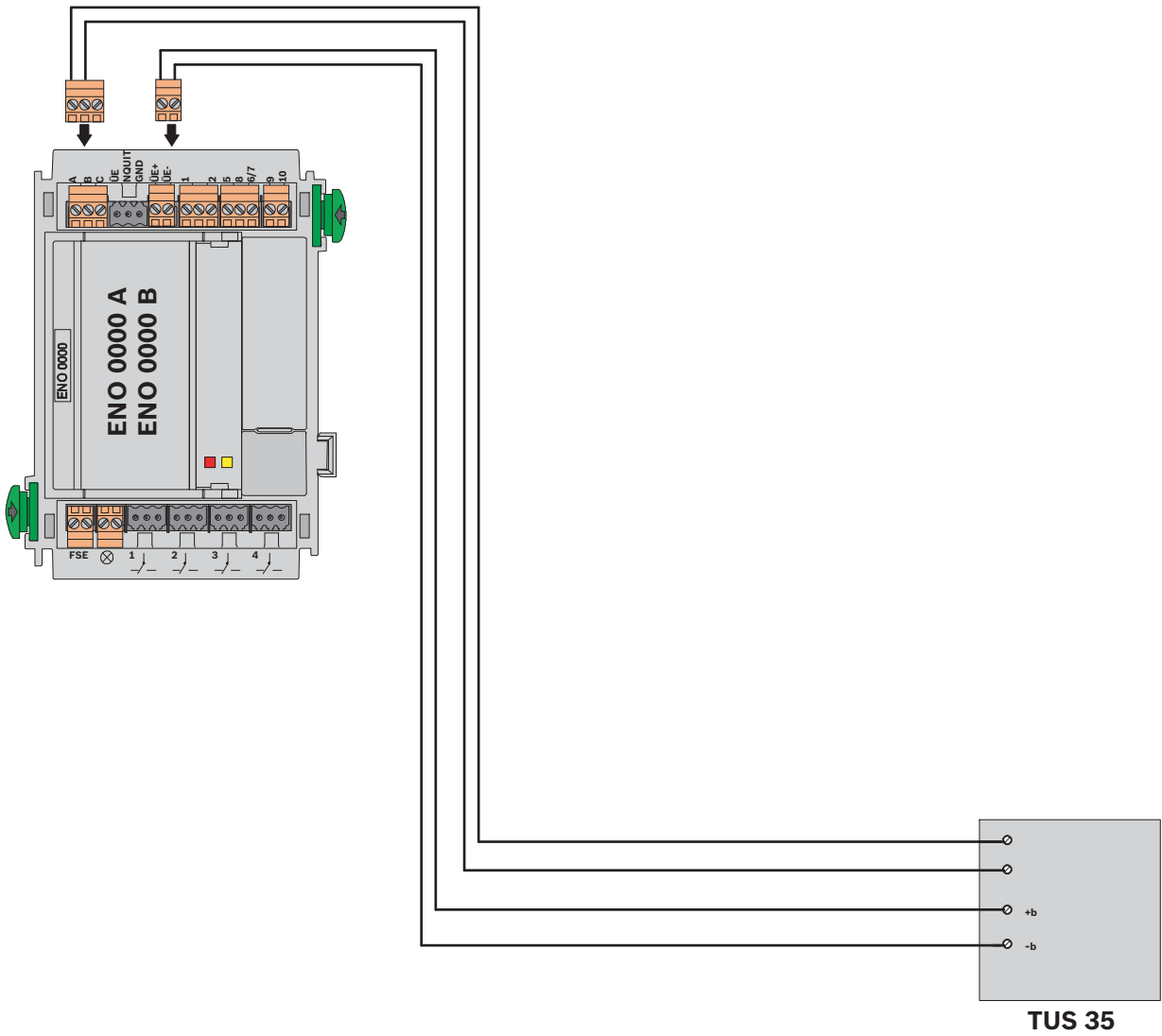


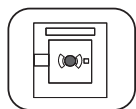
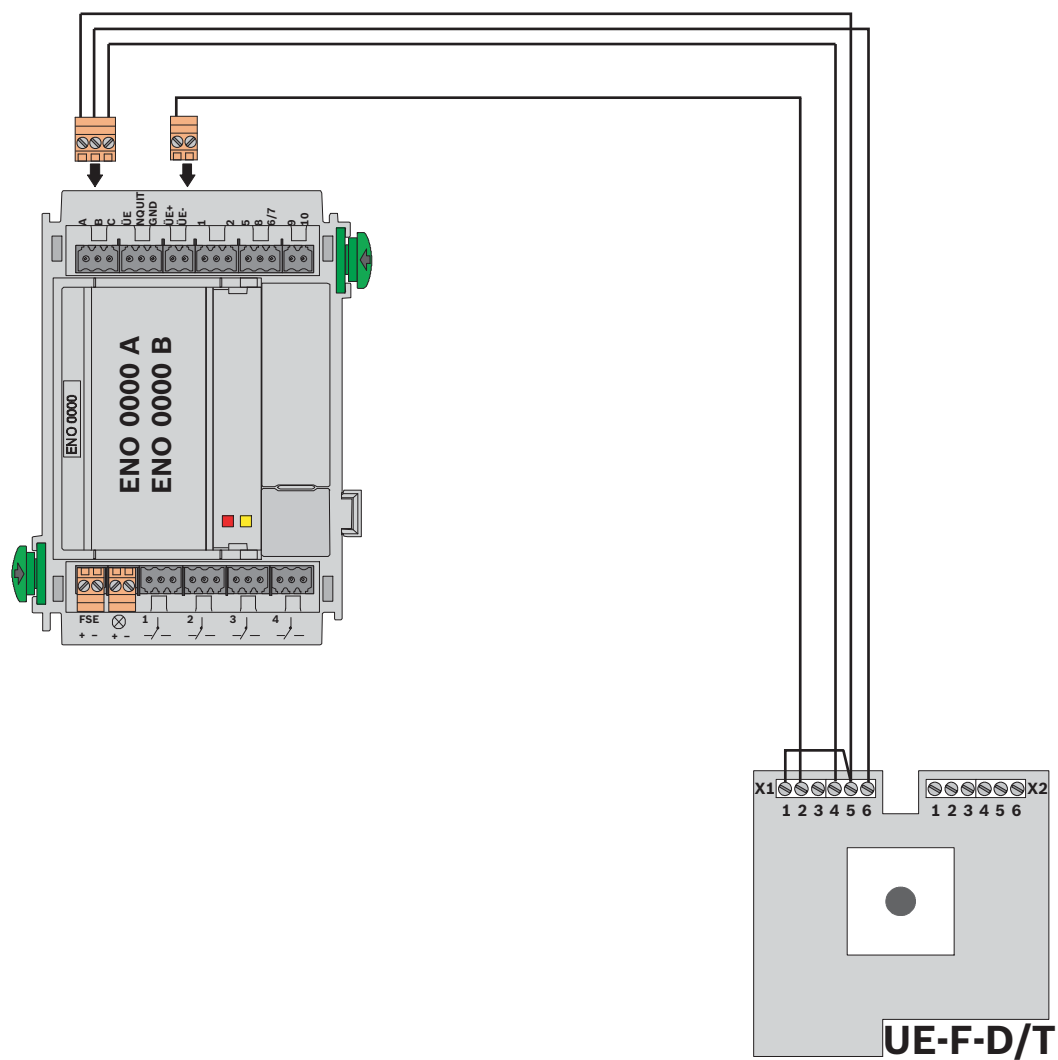
TF2F



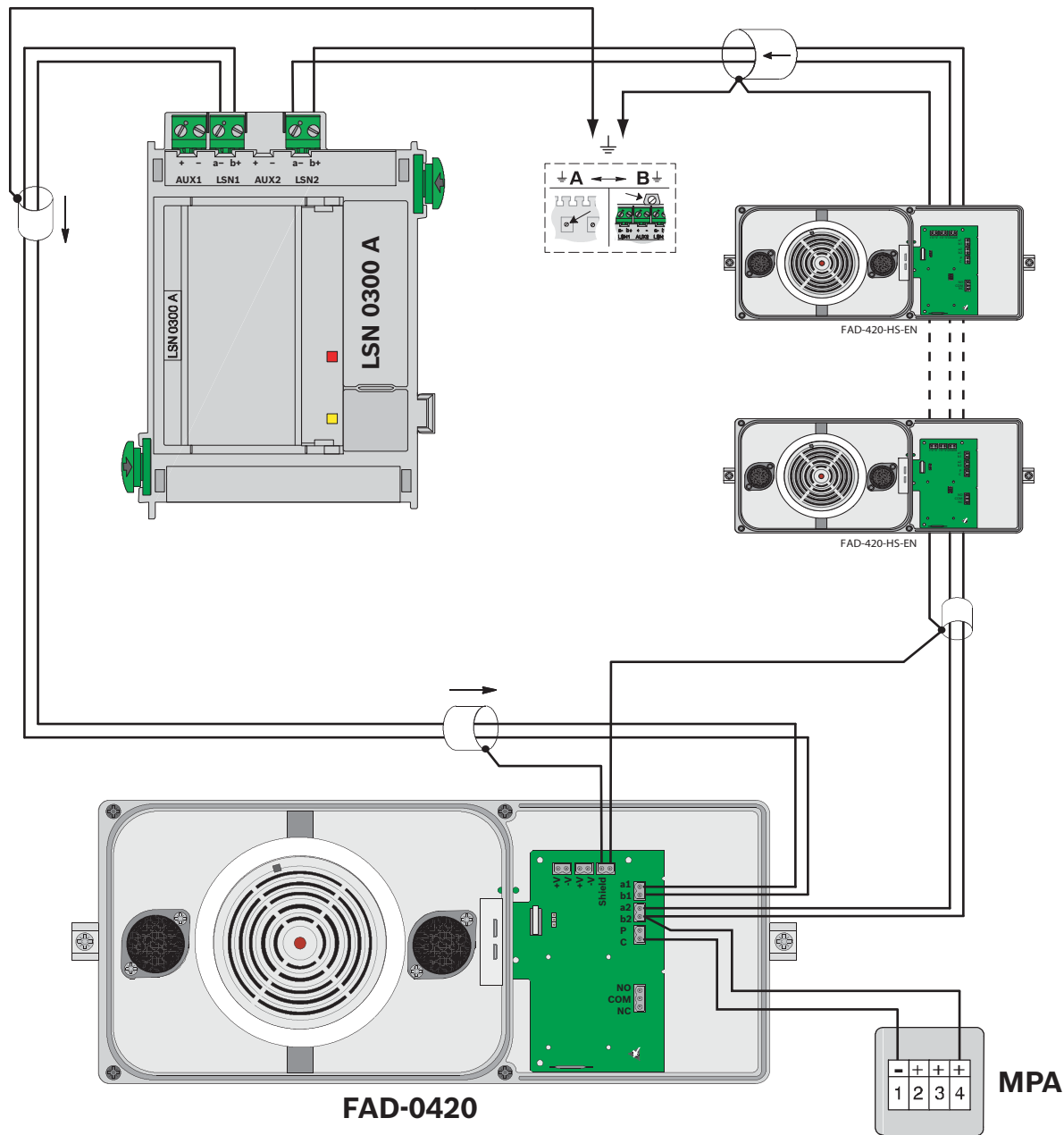


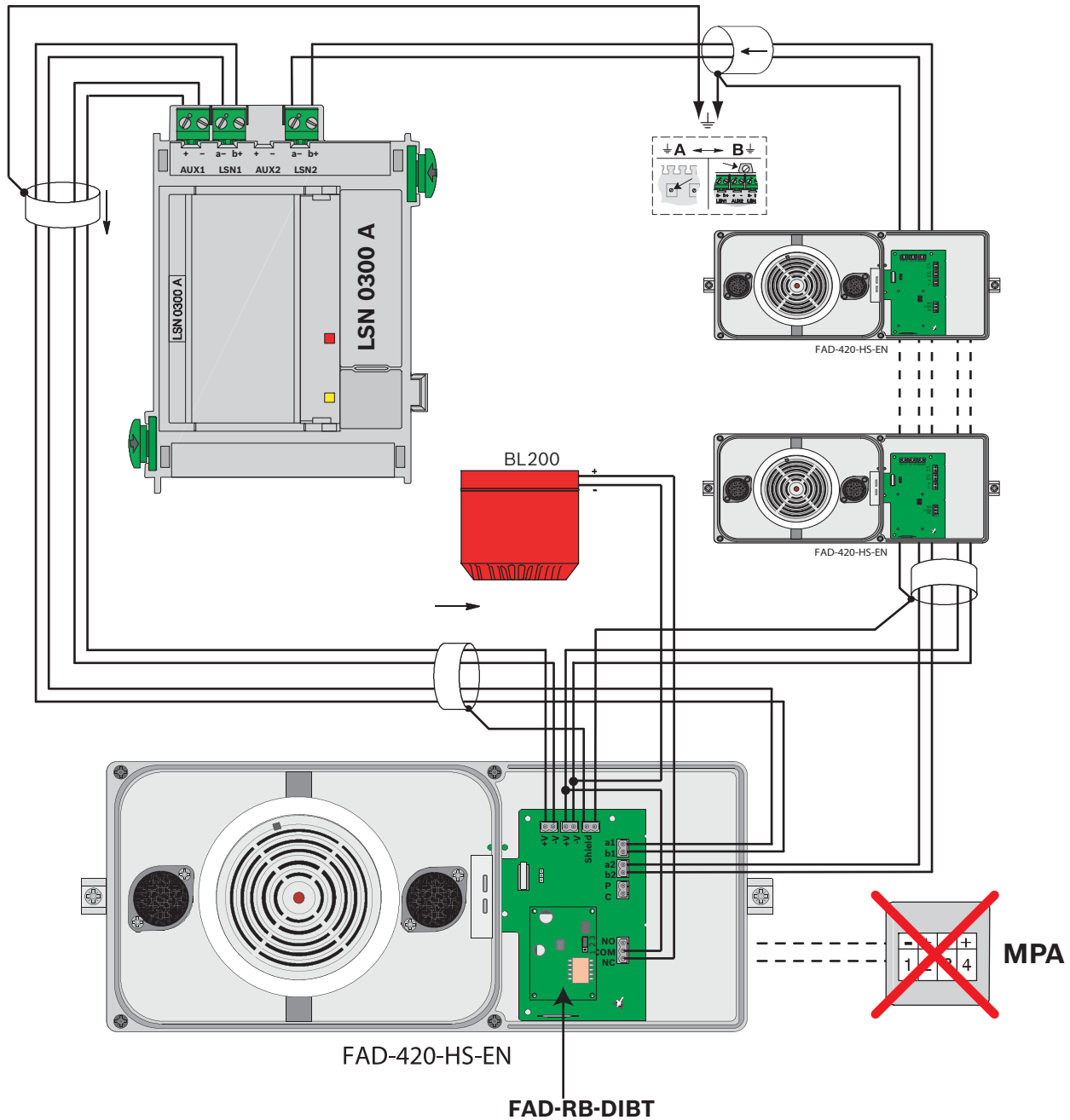
TUS 35

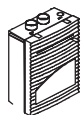
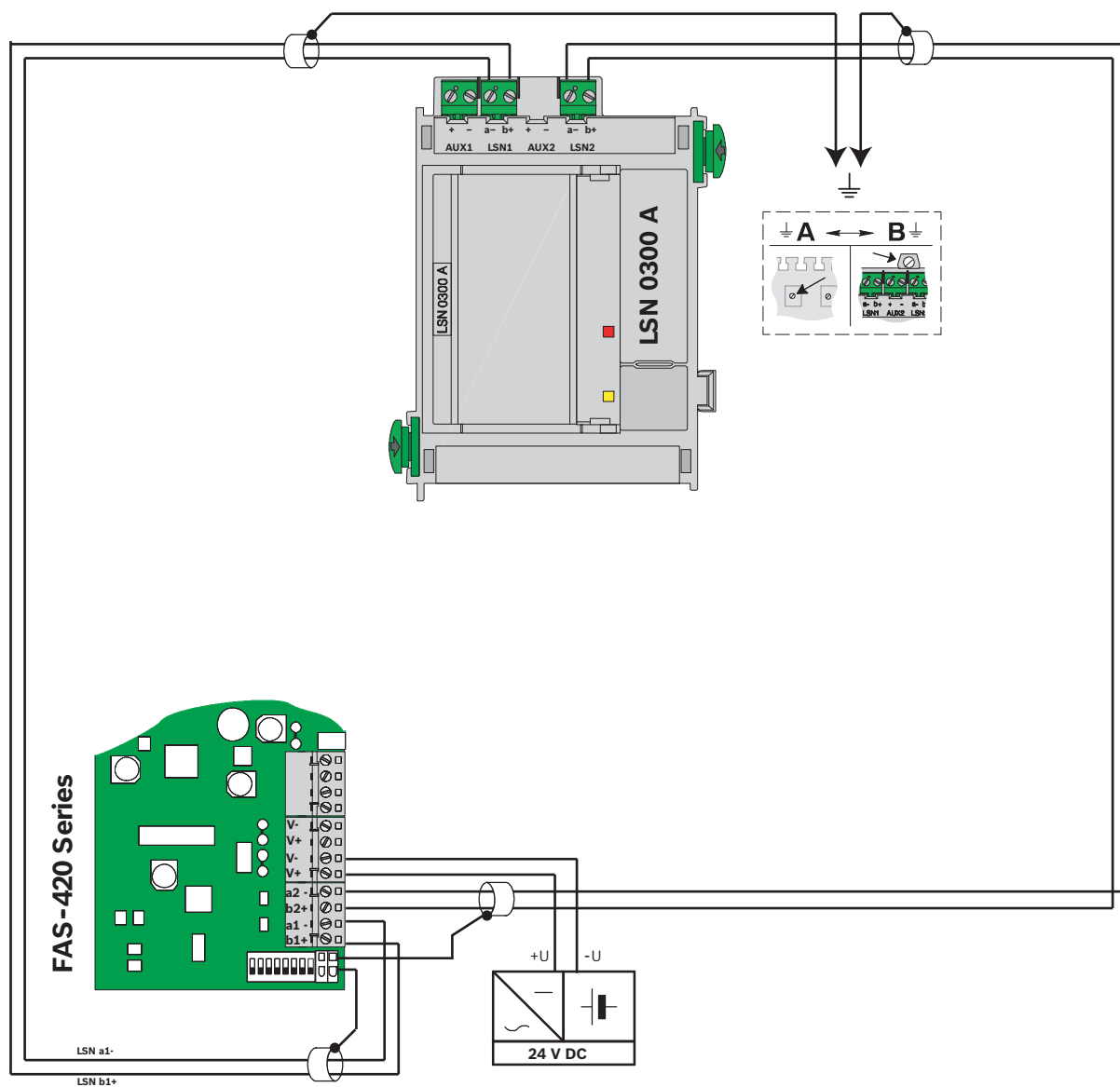


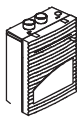
**UE-F-D/T**

2.4.3 LSN 0300 A

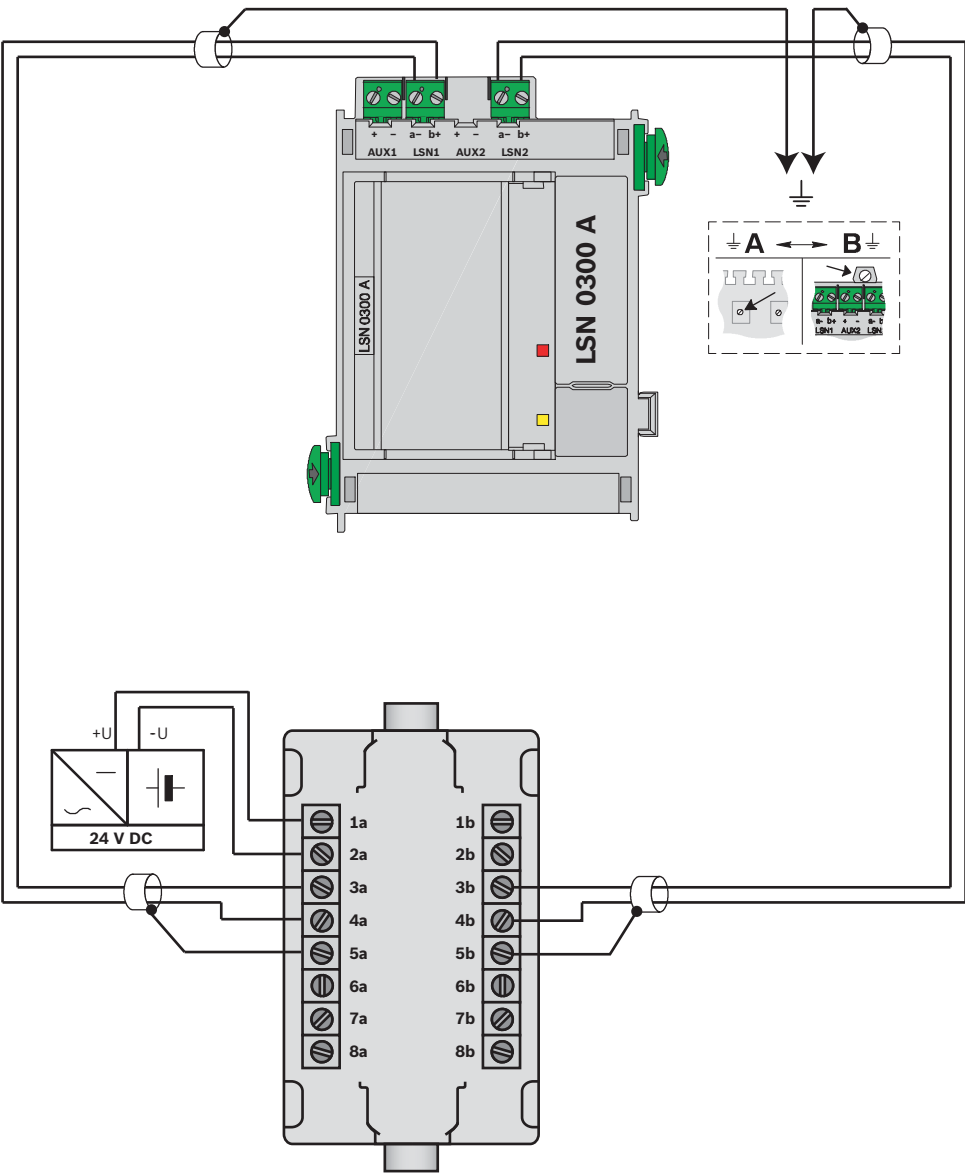
**FAD-0420**

**FAD-420-HS-EN**

**FAS-420 Series**

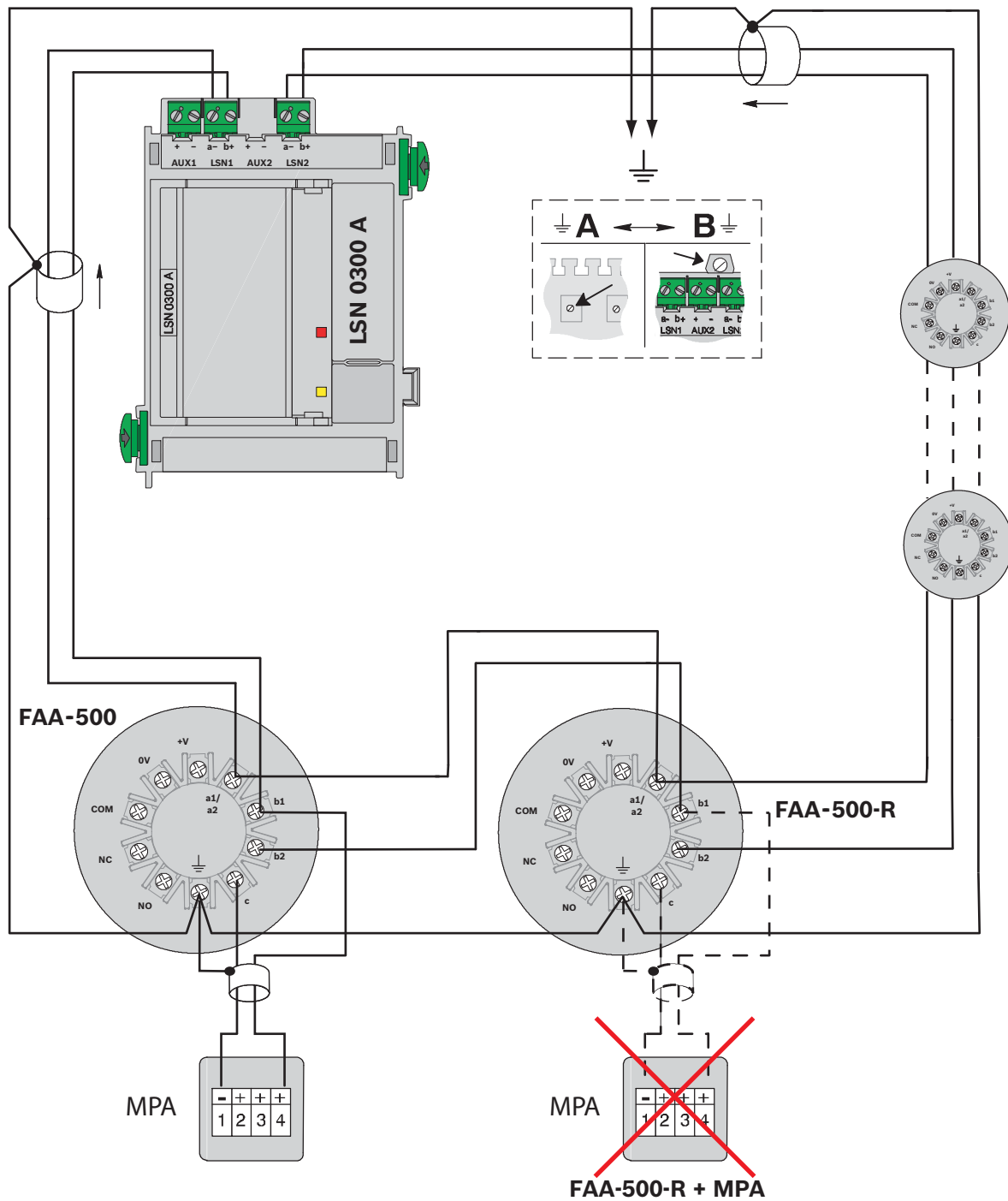
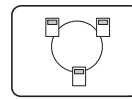


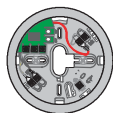
FAS-420-TM Series



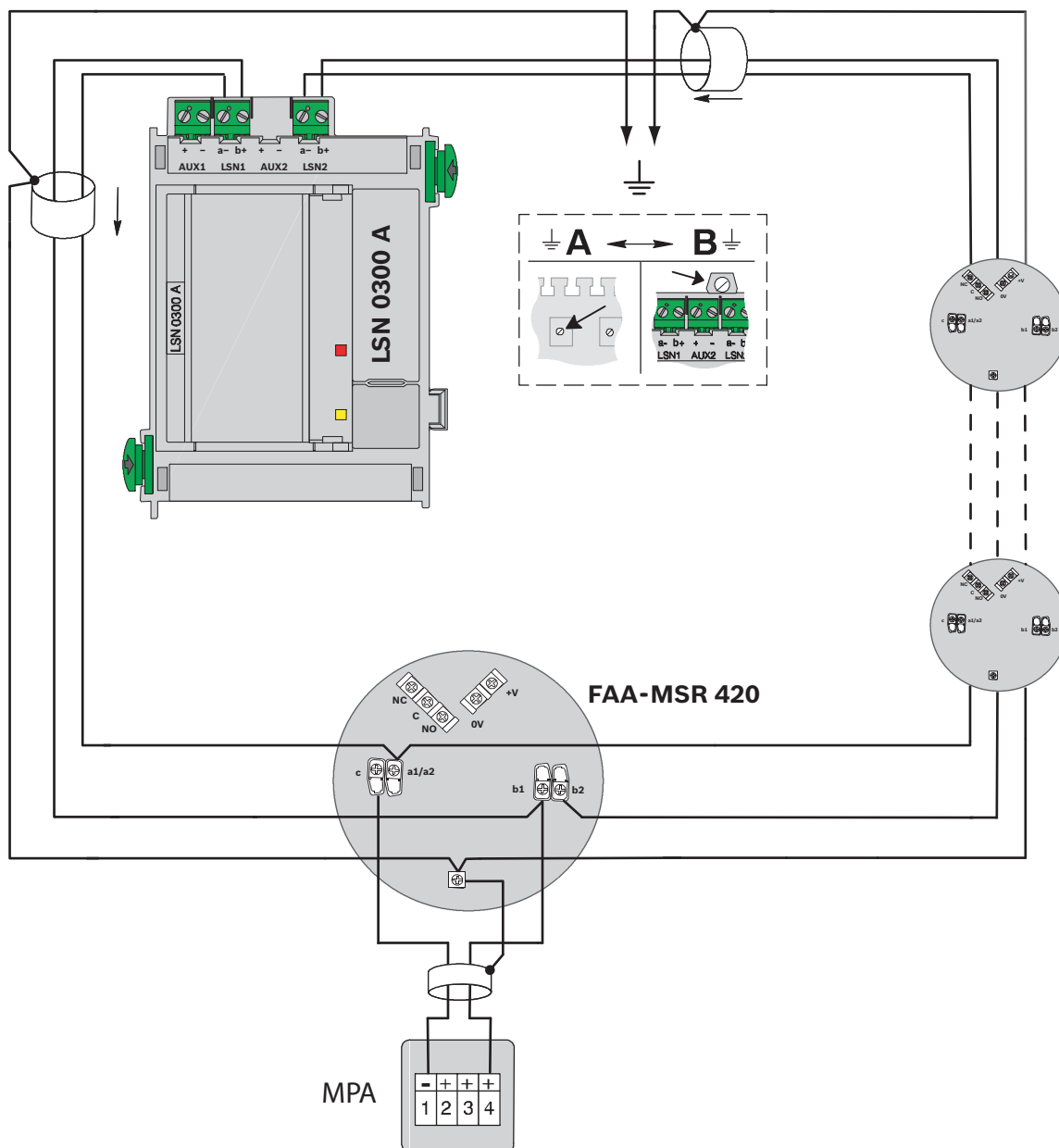
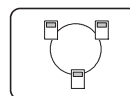


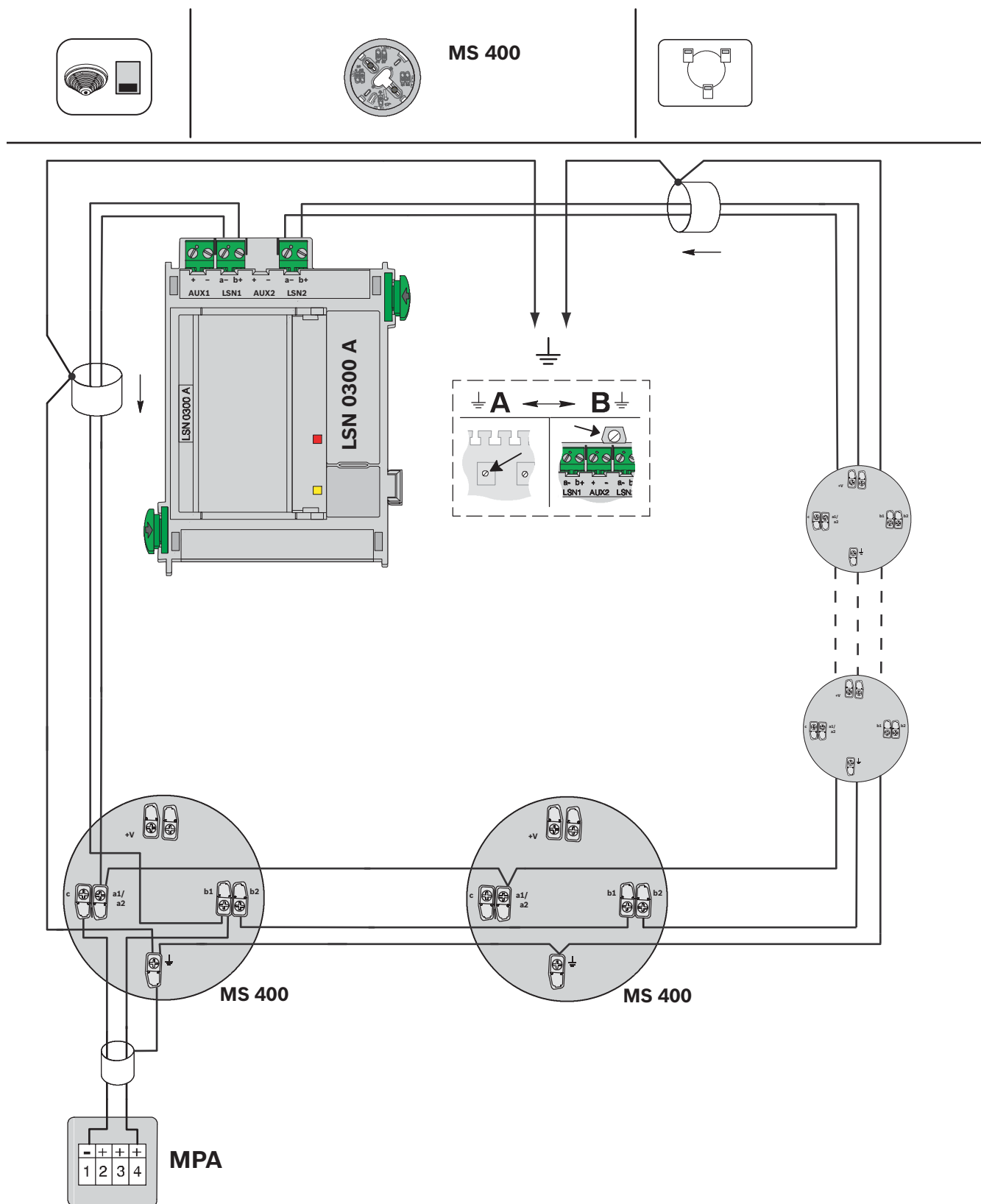
FAA-500
FAA-500-R

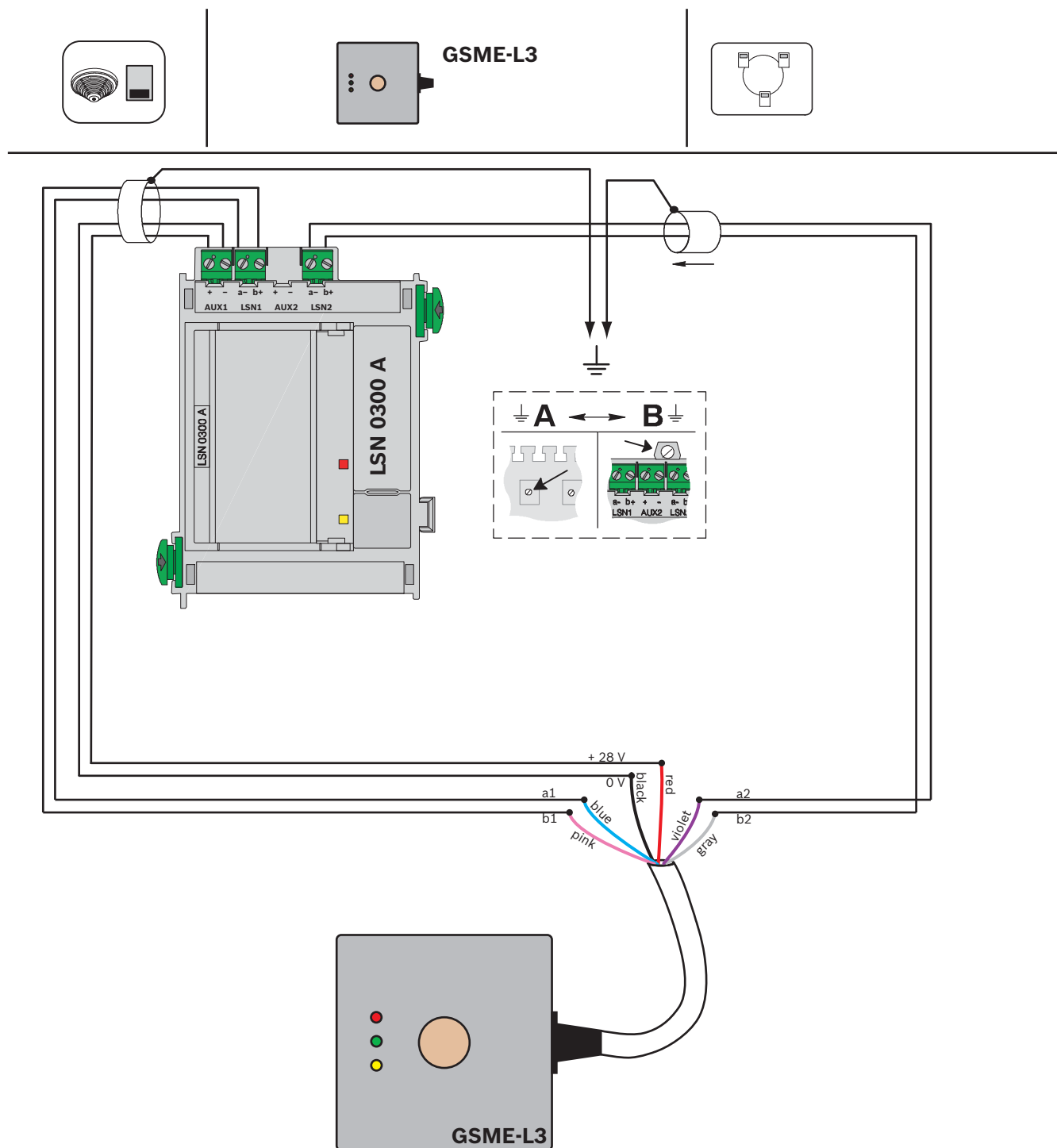


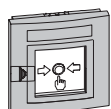
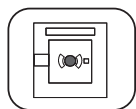


FAA-MSR 420

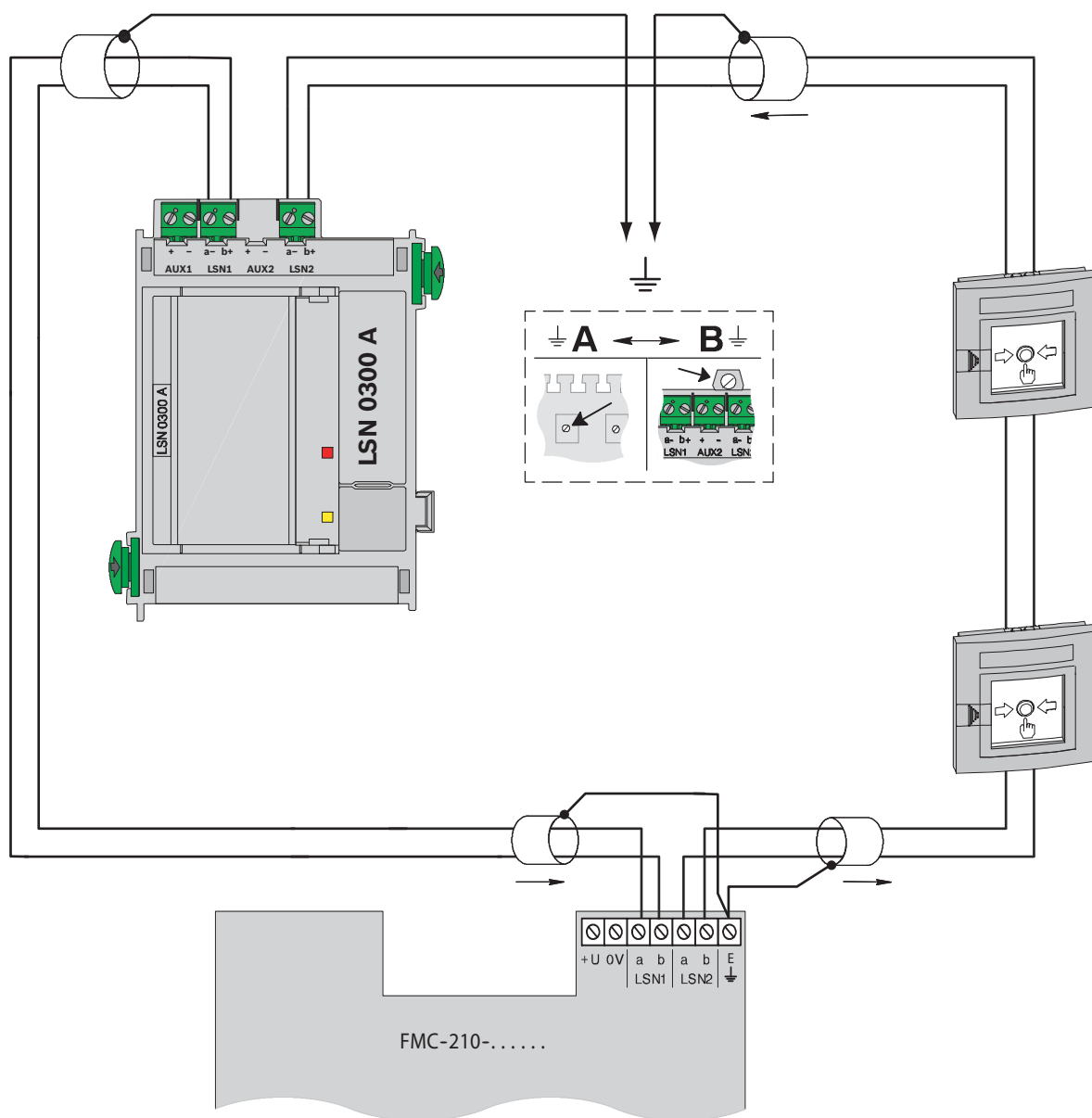
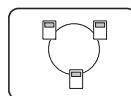


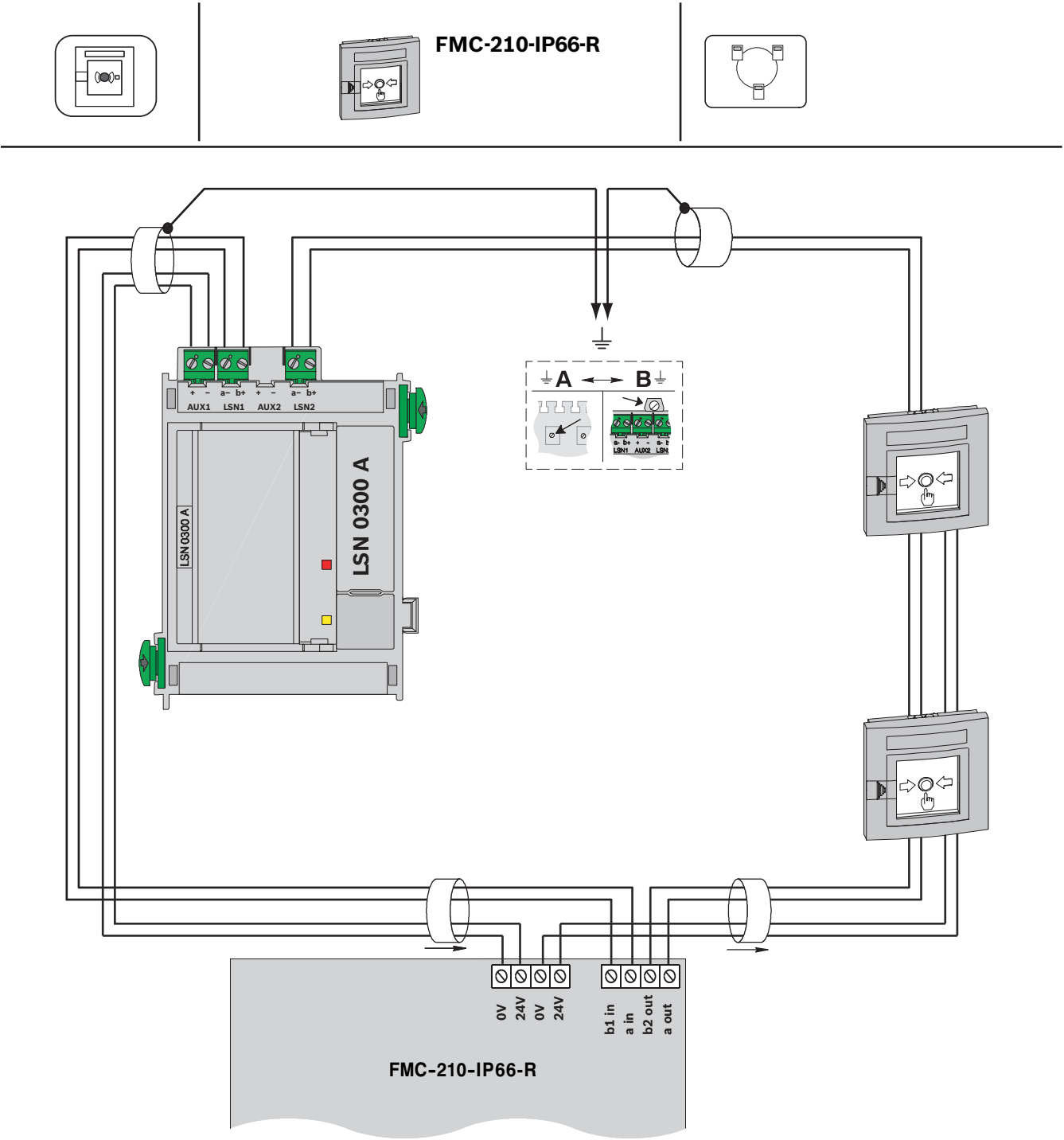


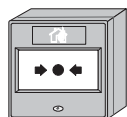
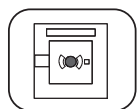
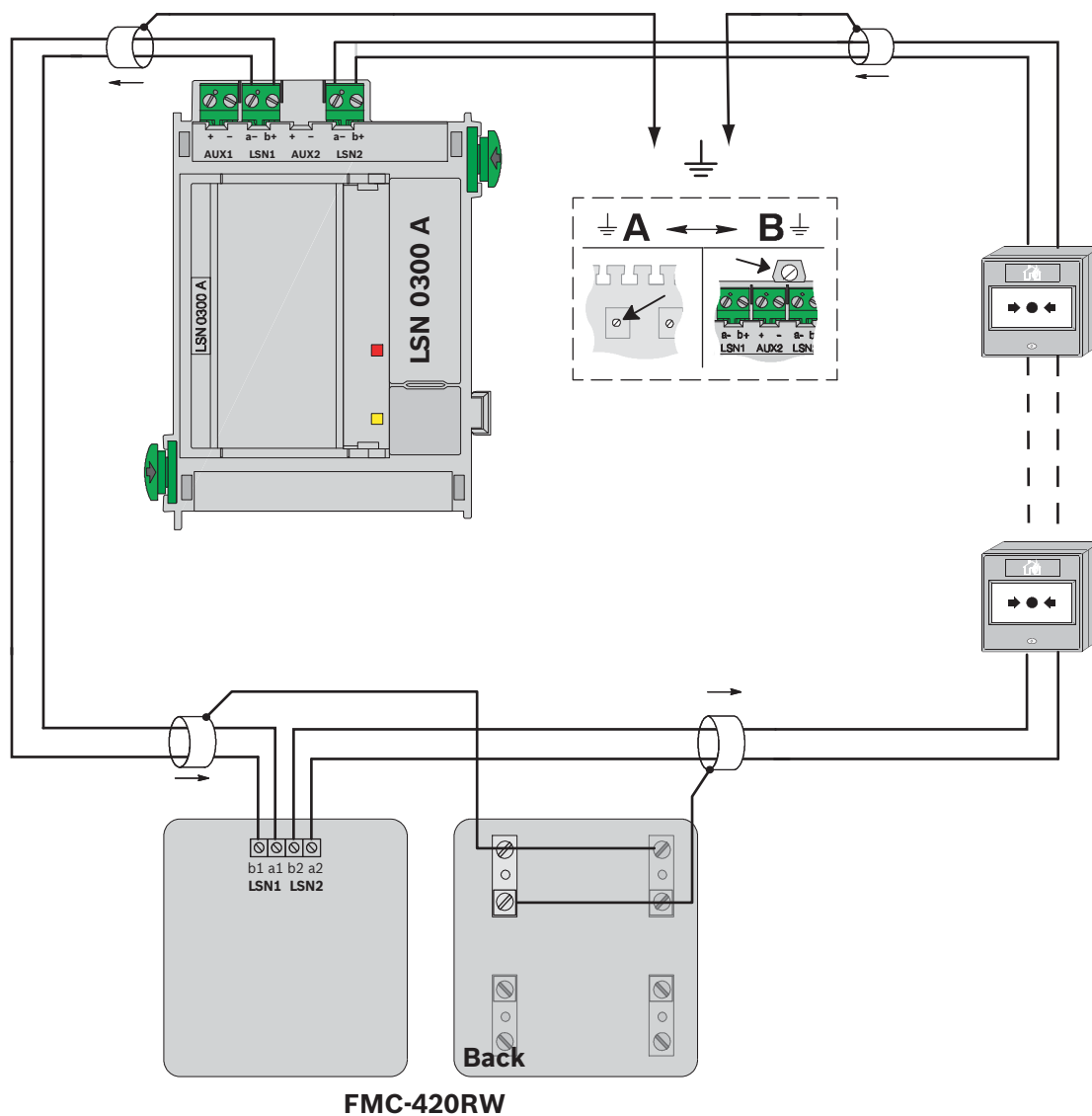
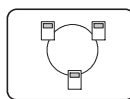


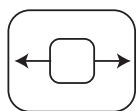


FMC-210-...

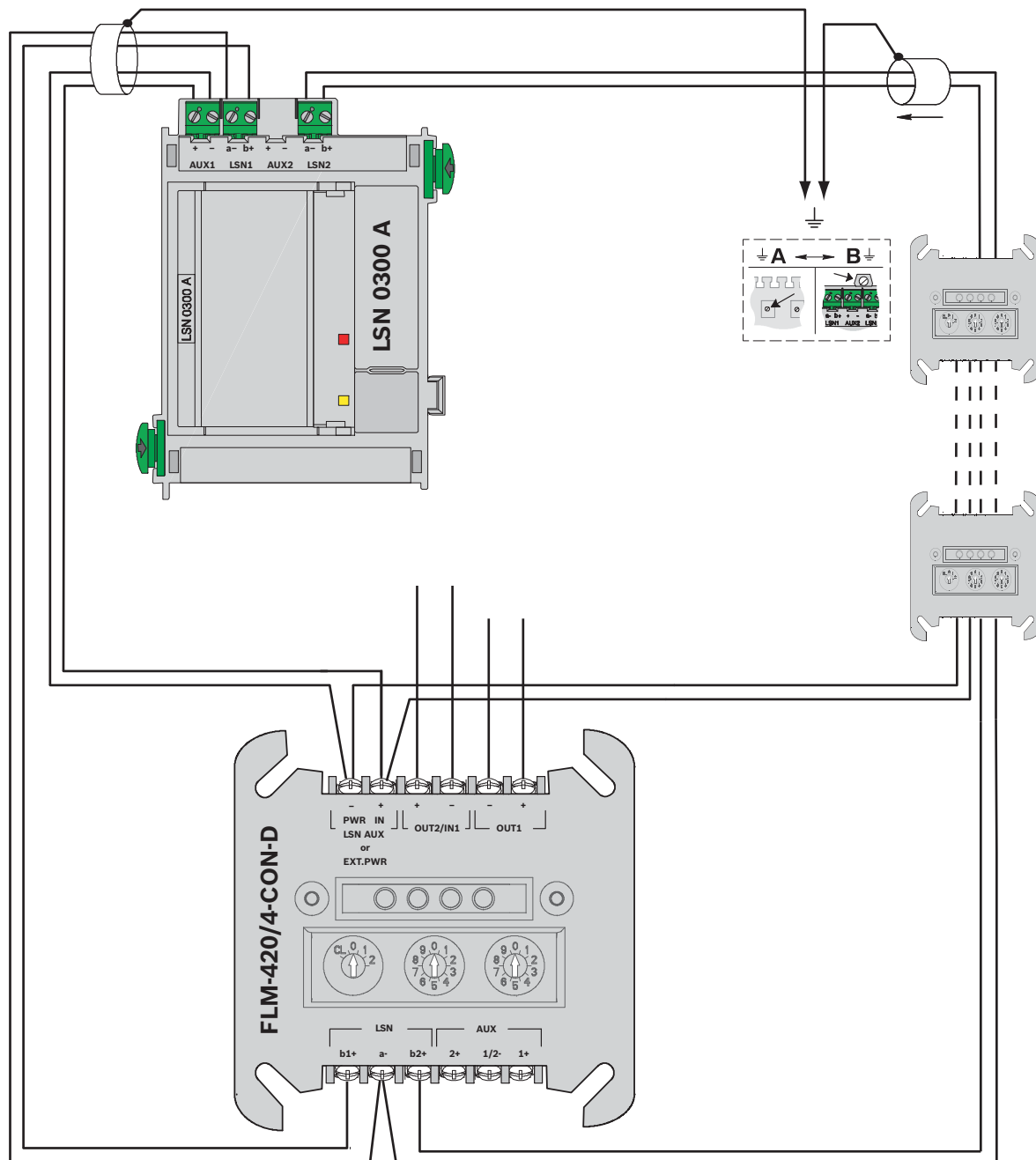
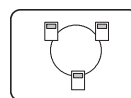


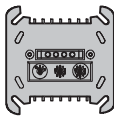
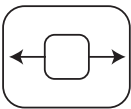


**FMC-420RW**

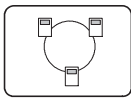


**FLM-420/
4-CON-D**

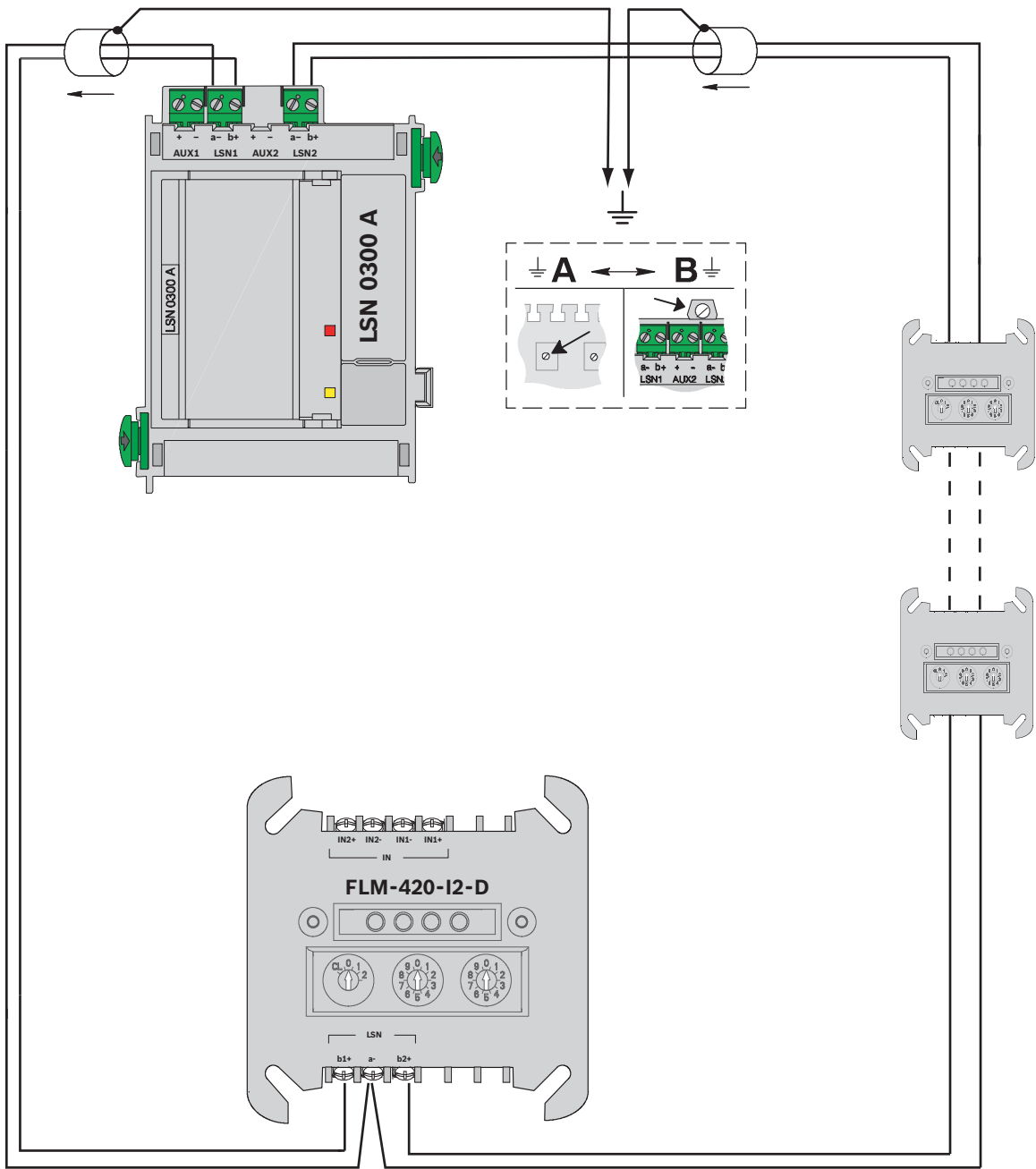


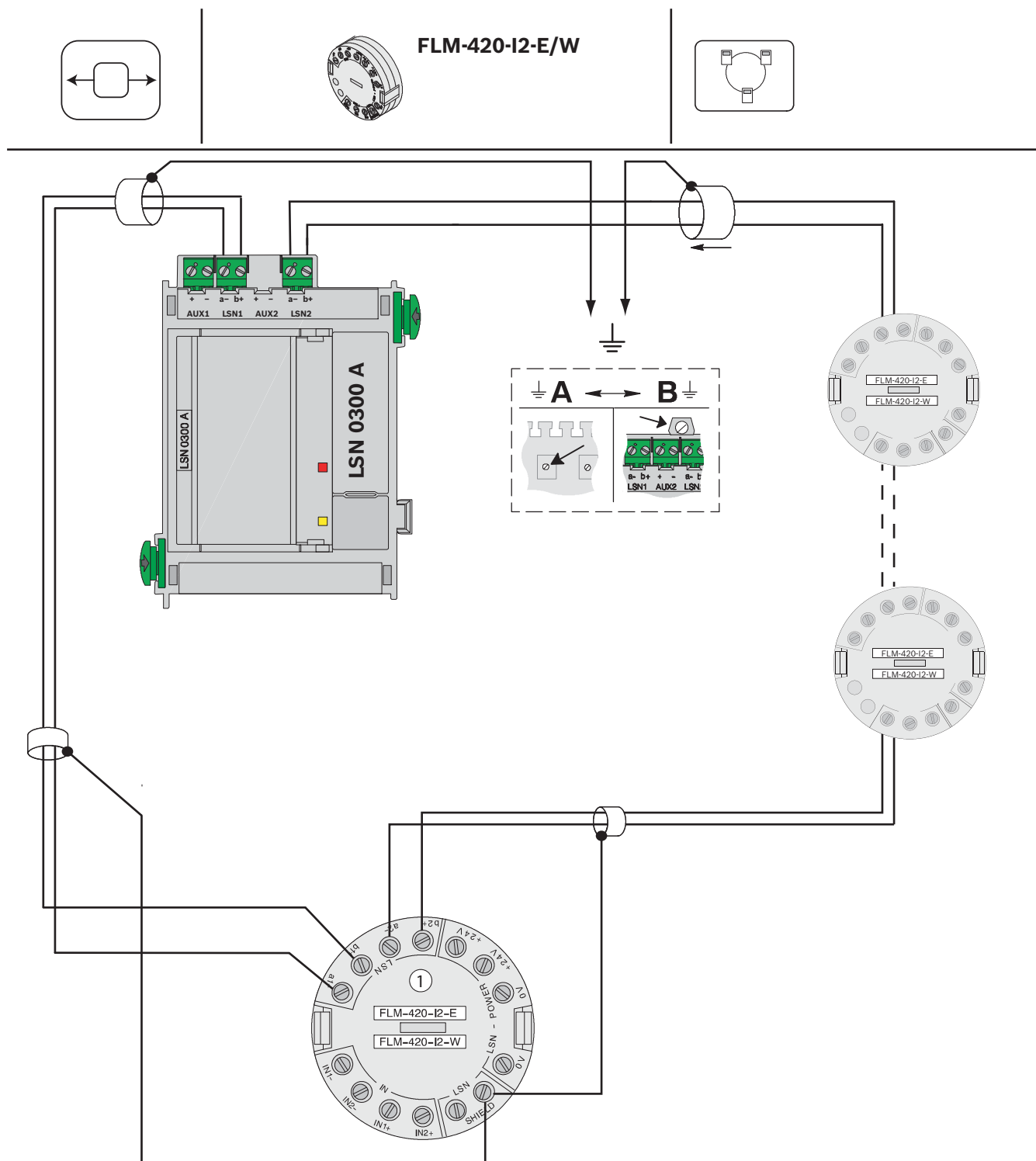


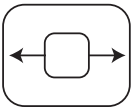
FLM-420-I2-D



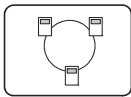
EN54-13



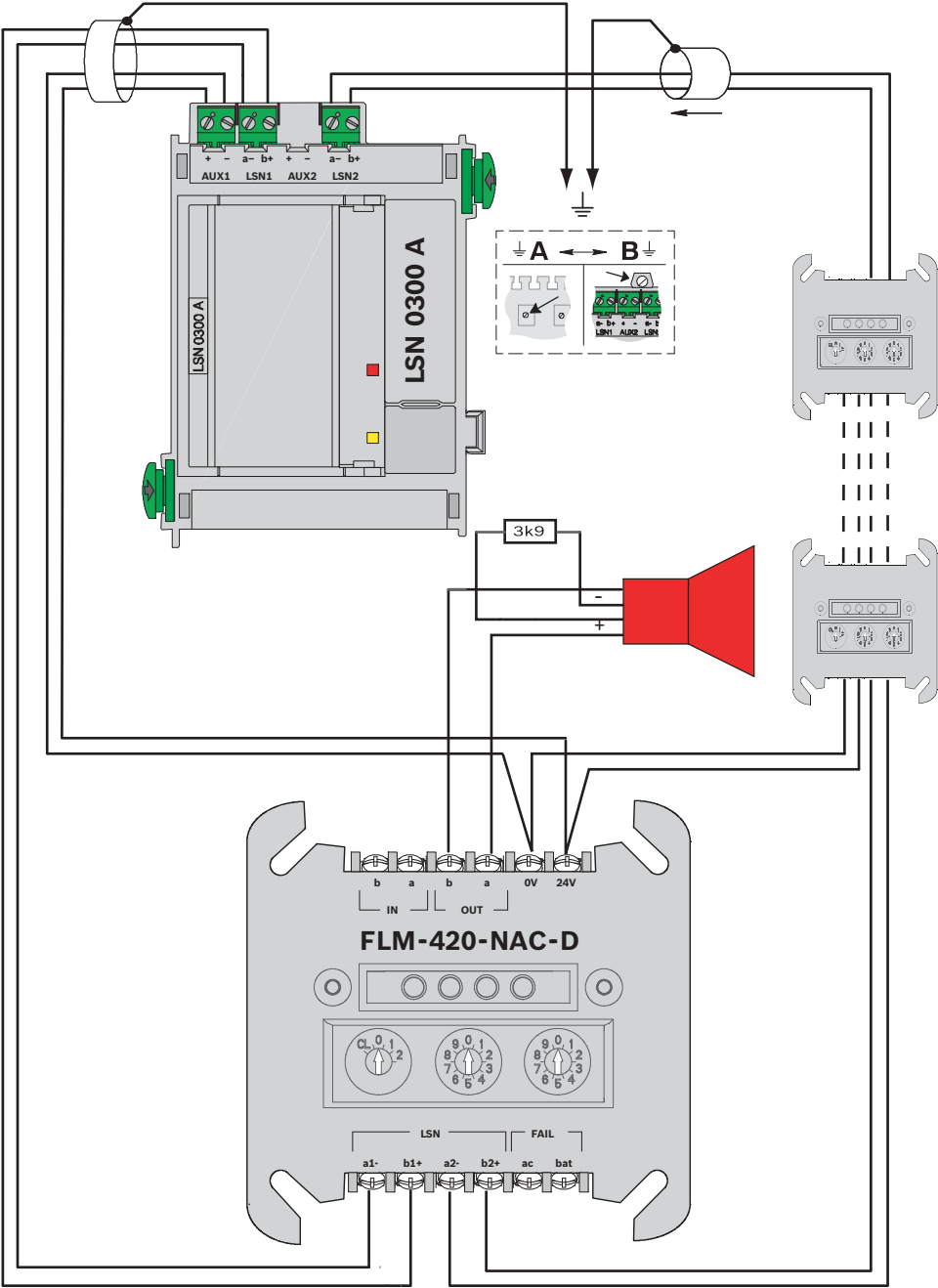


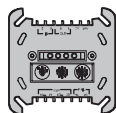
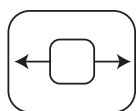


FLM-420-NAC-D/S

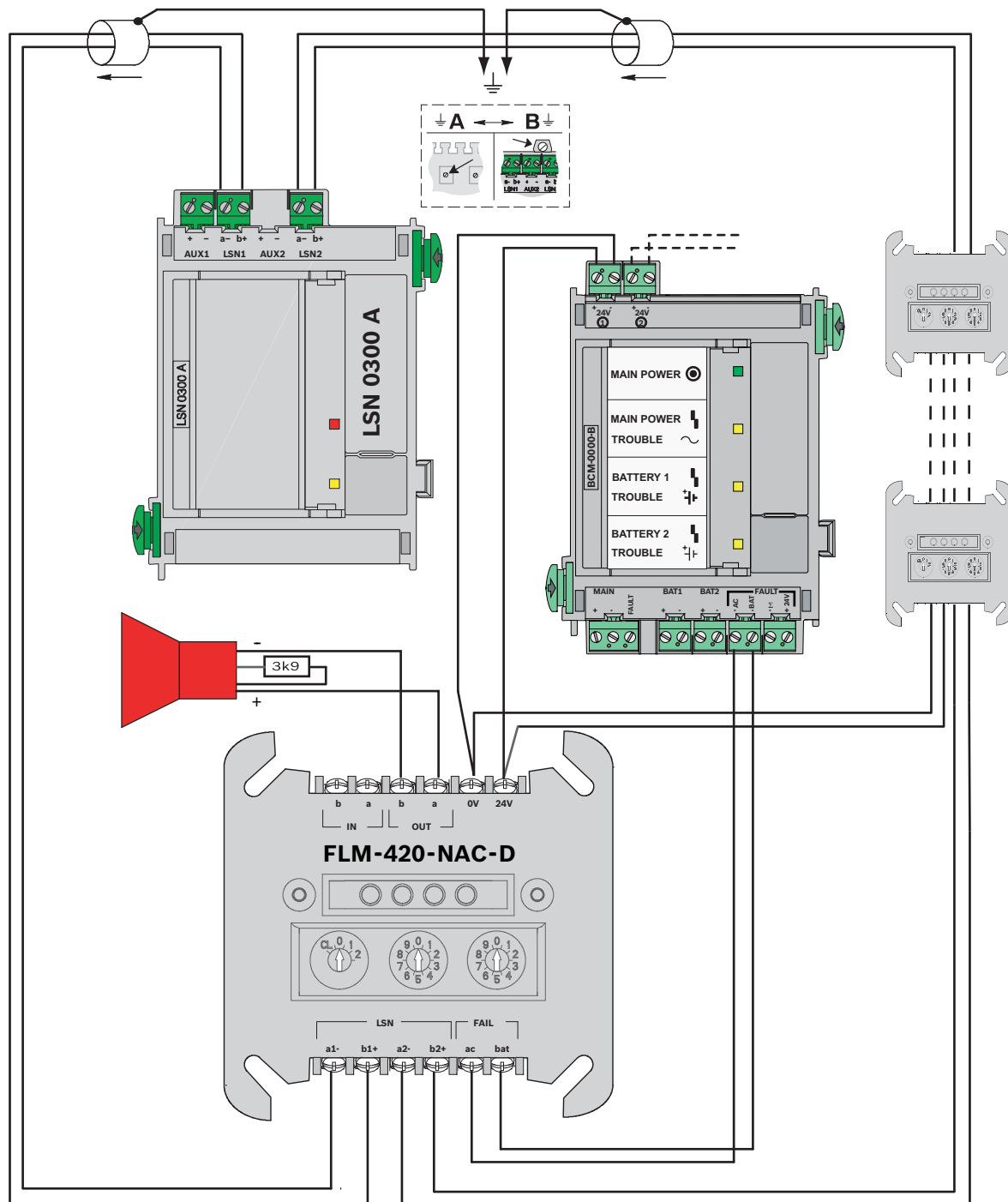
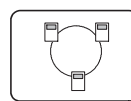


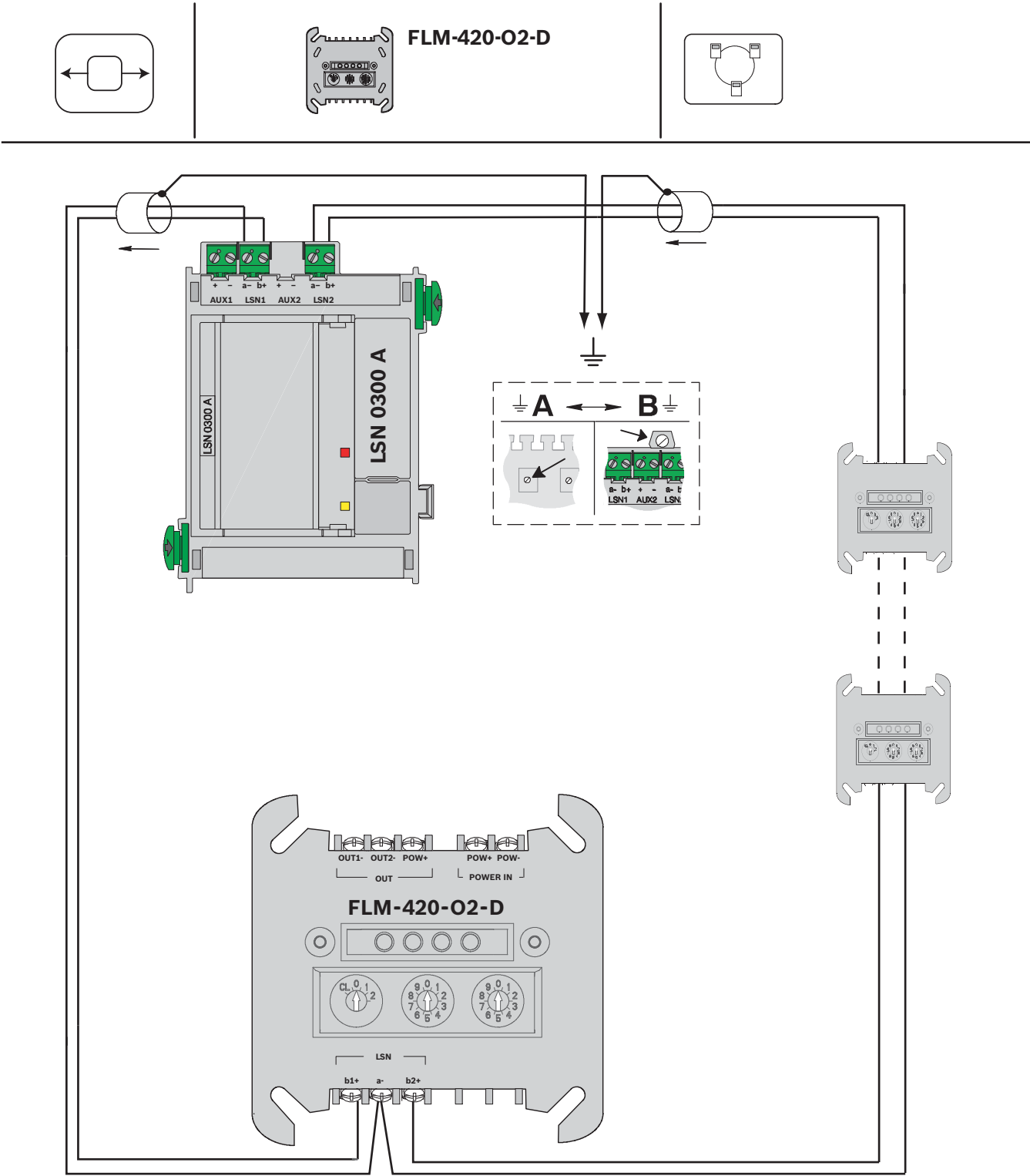
EN 54-2

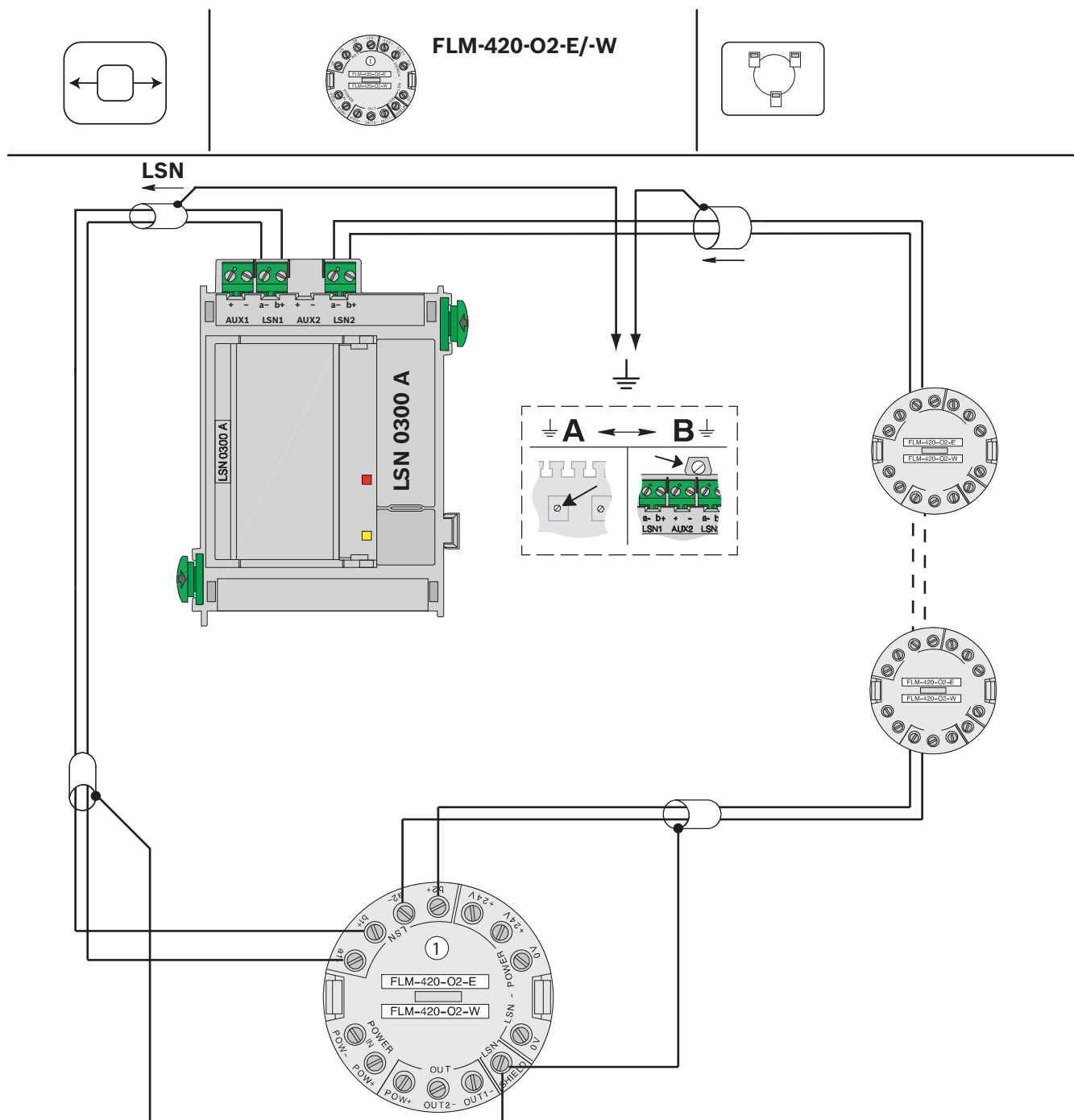


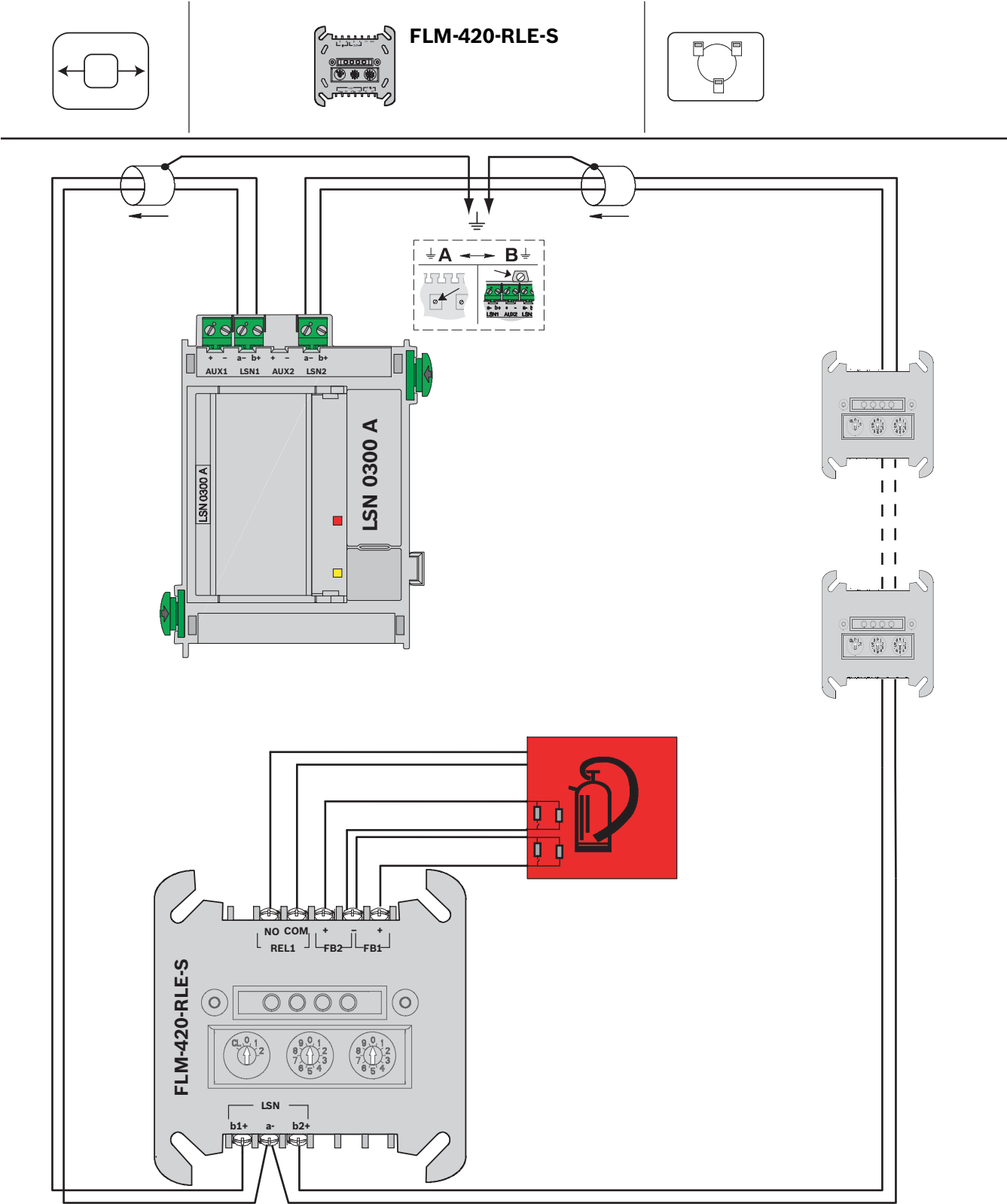


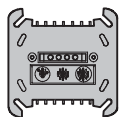
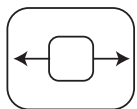
FLM-420-NAC-D/S



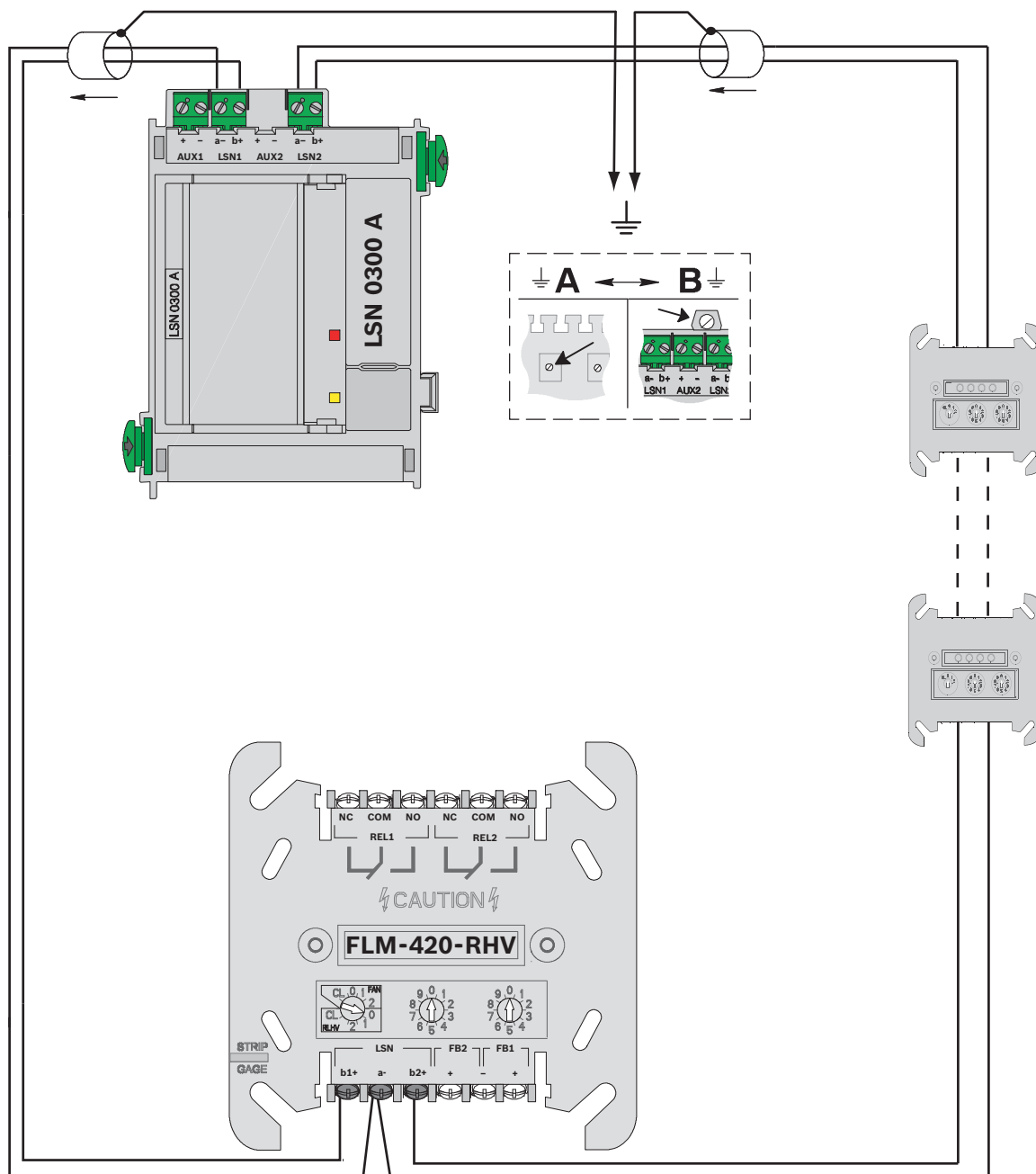
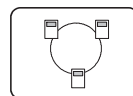


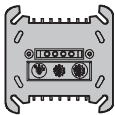
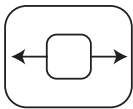




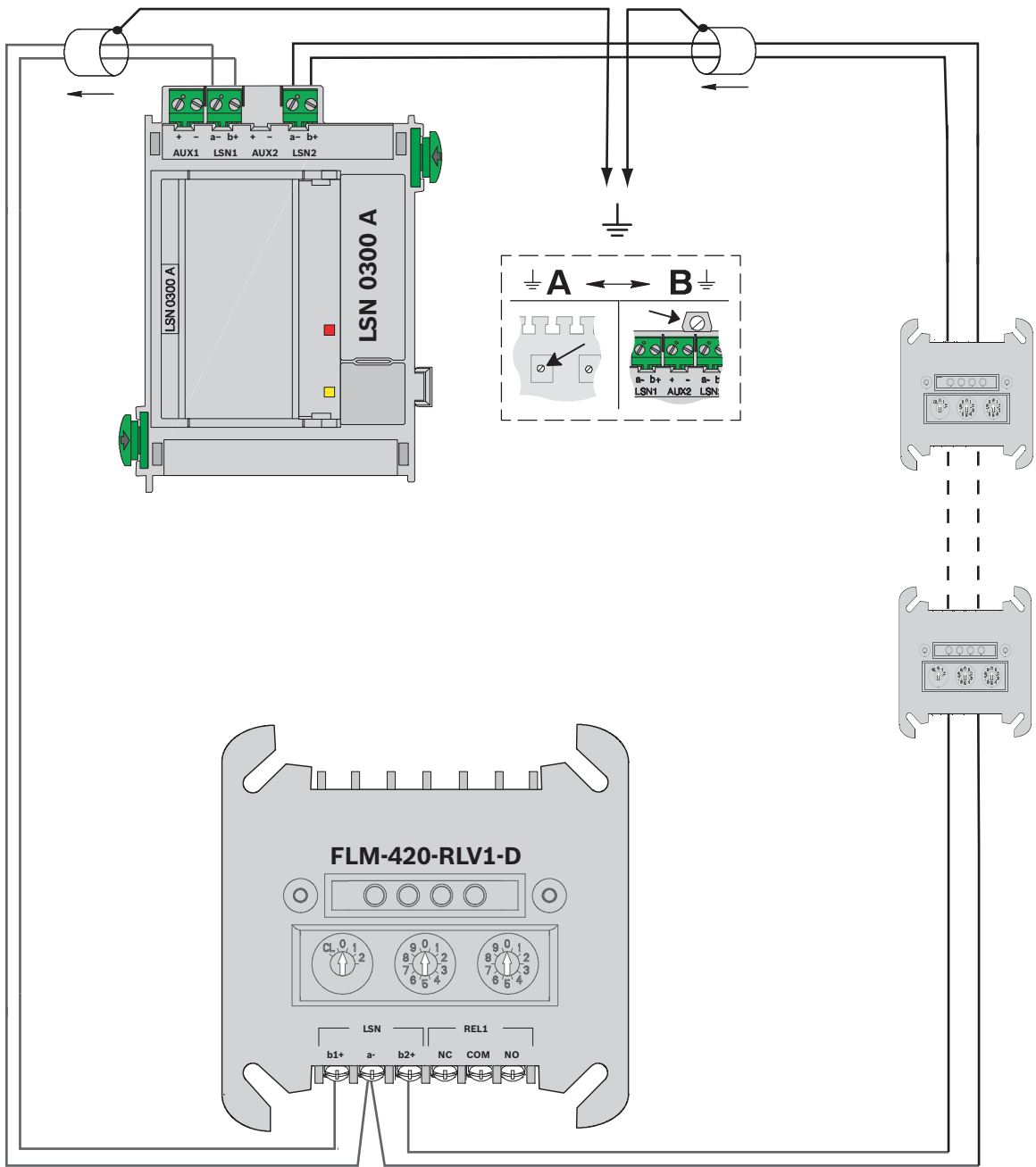
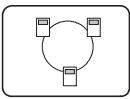


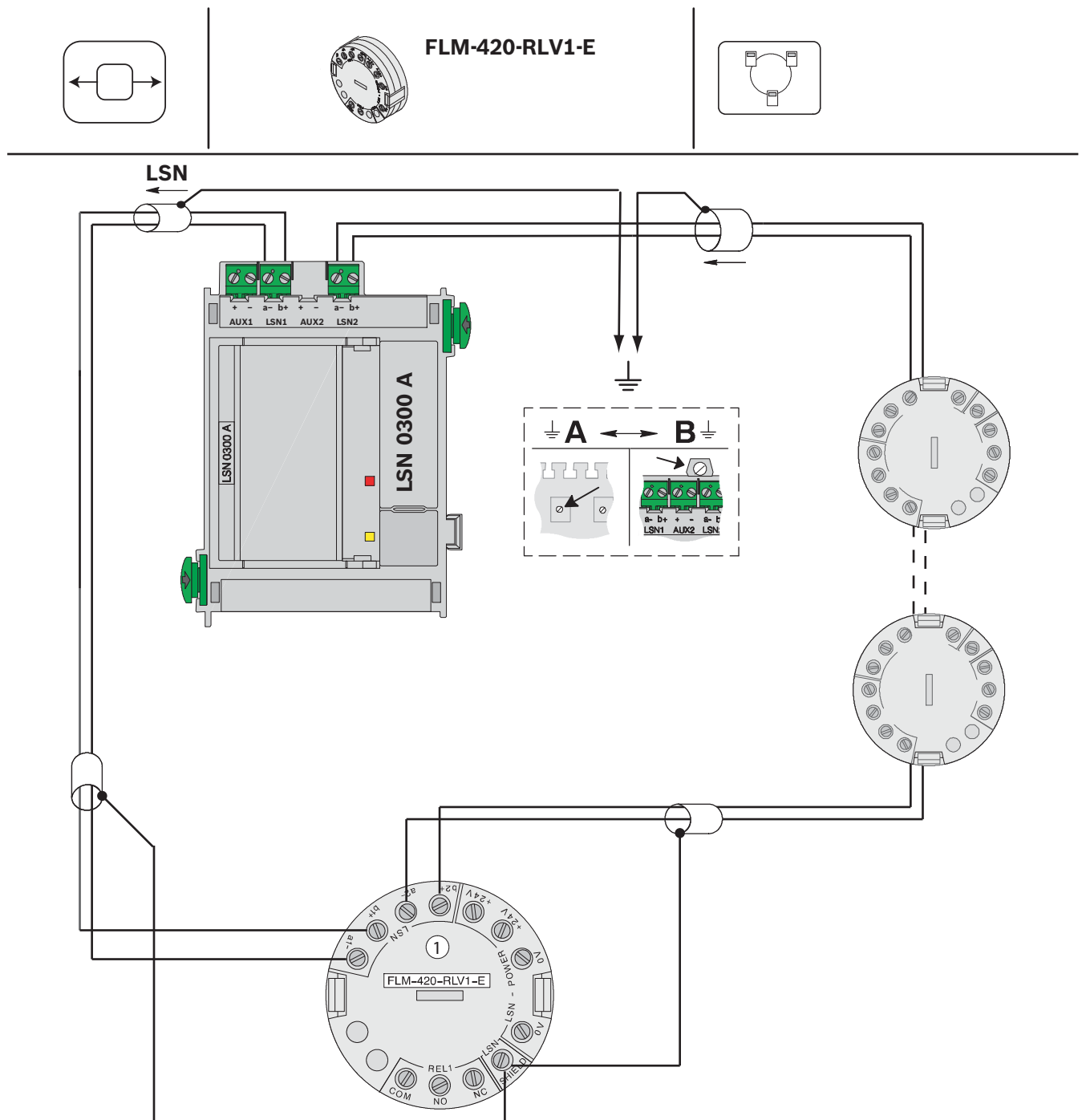
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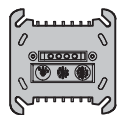
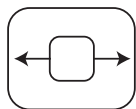
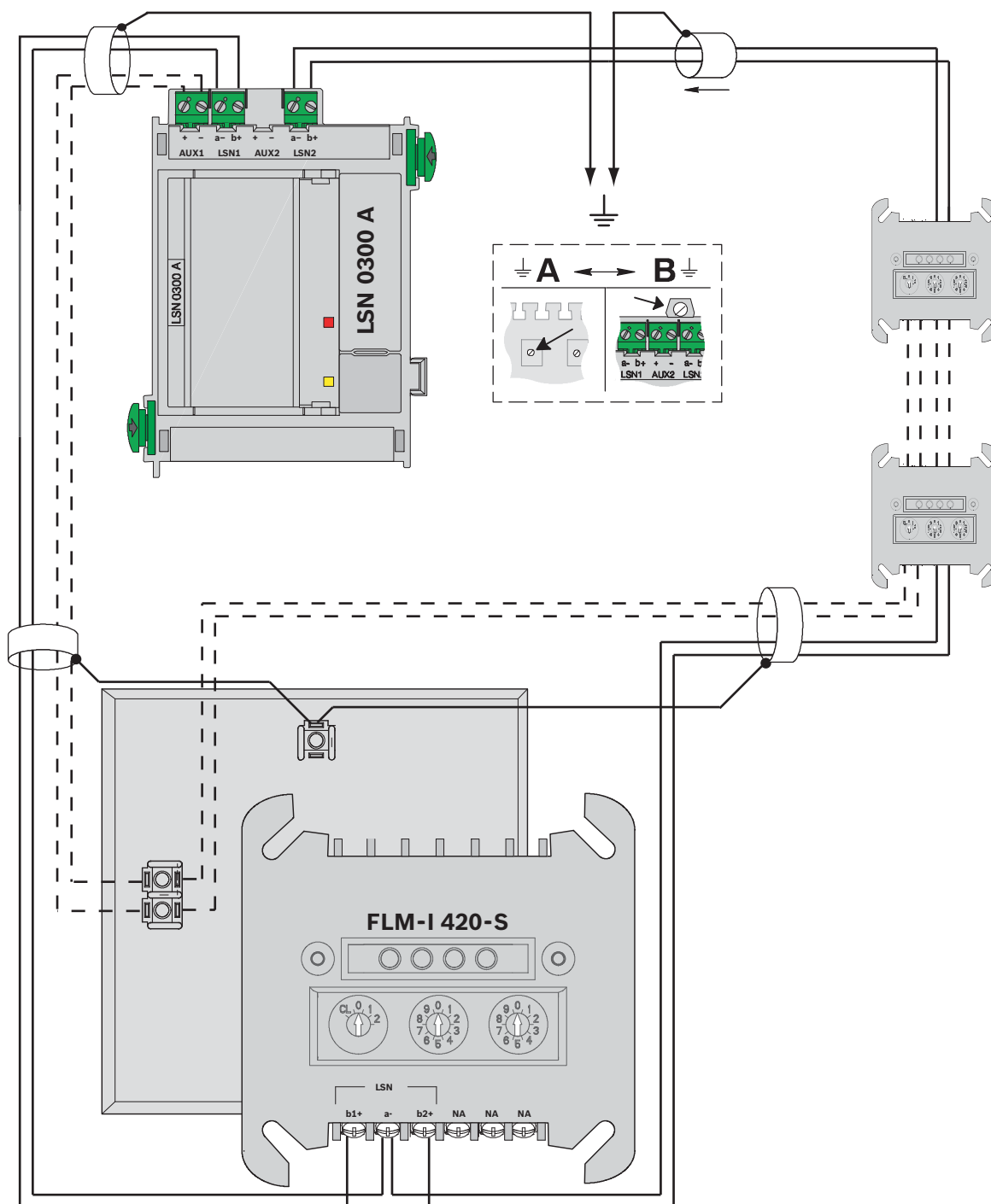
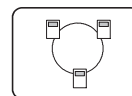


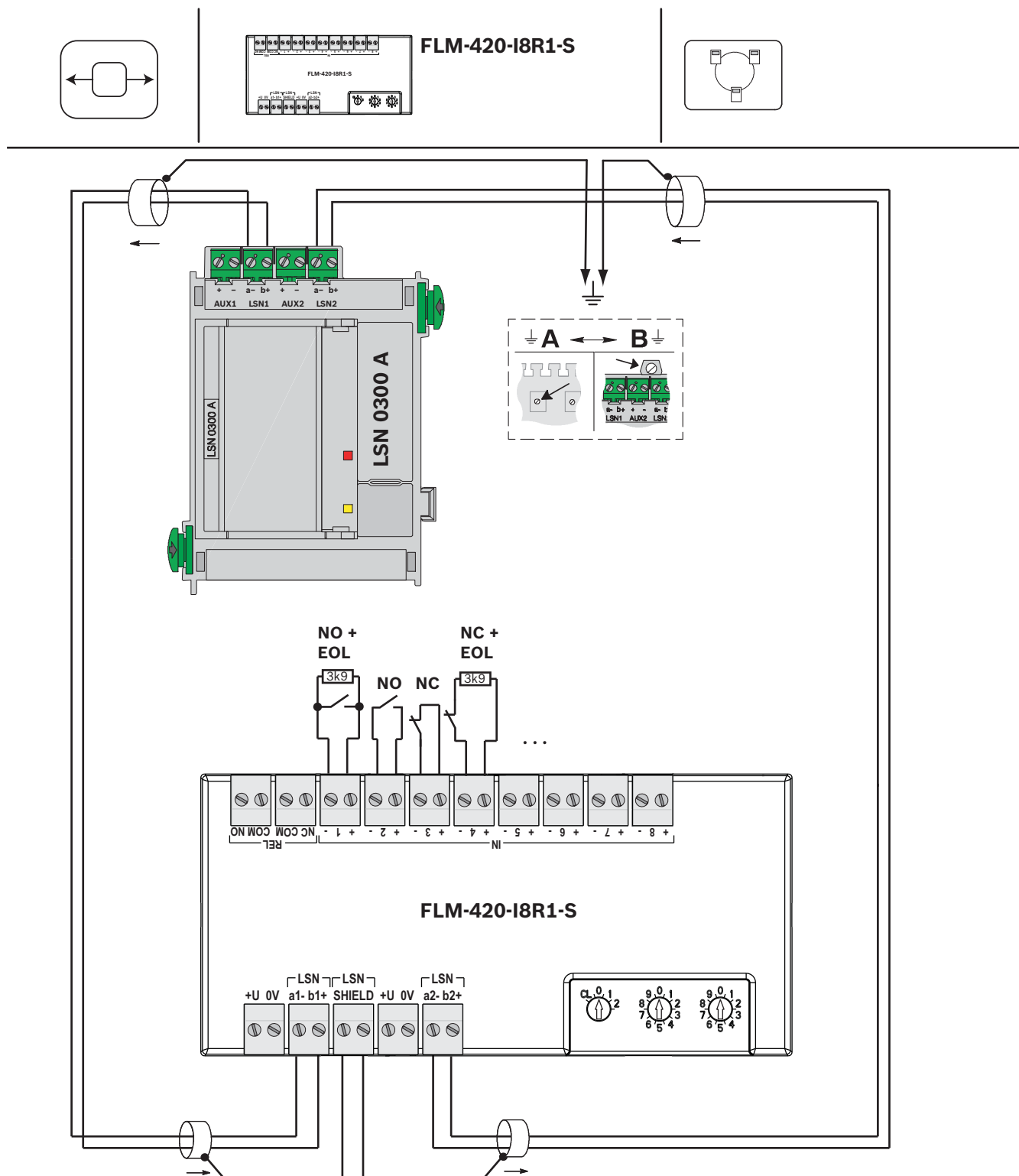


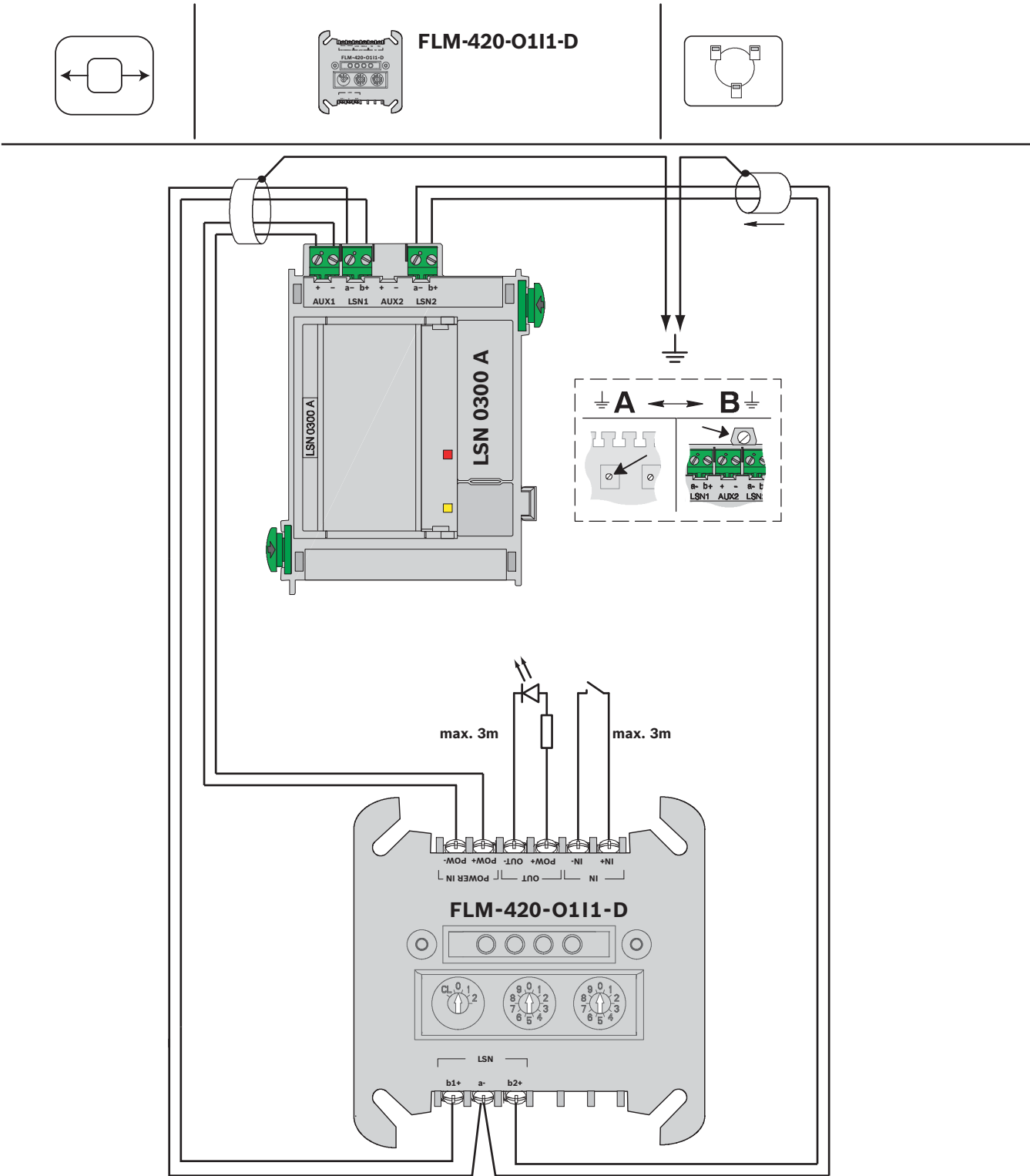
FLM-420-RLV1-D

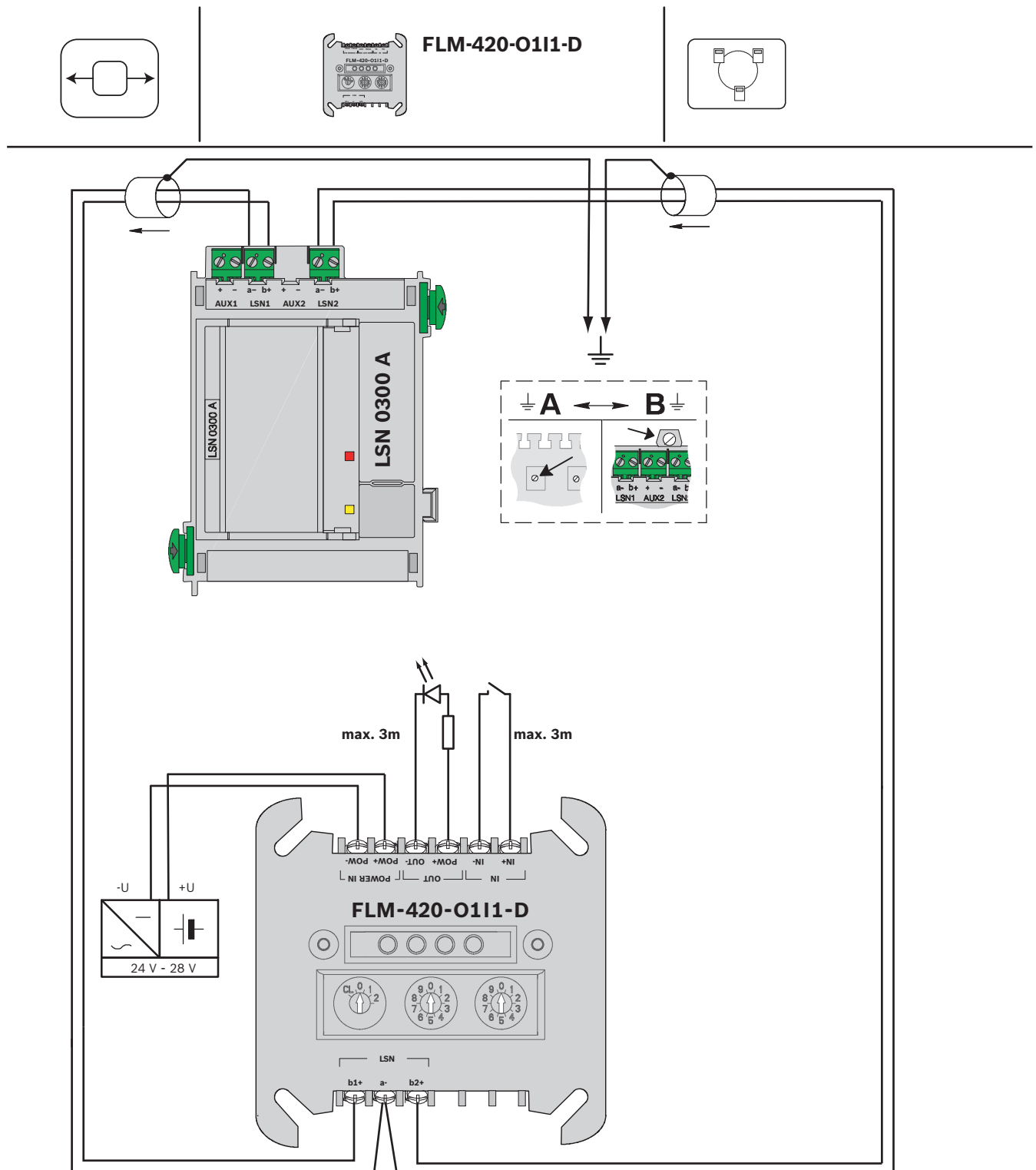


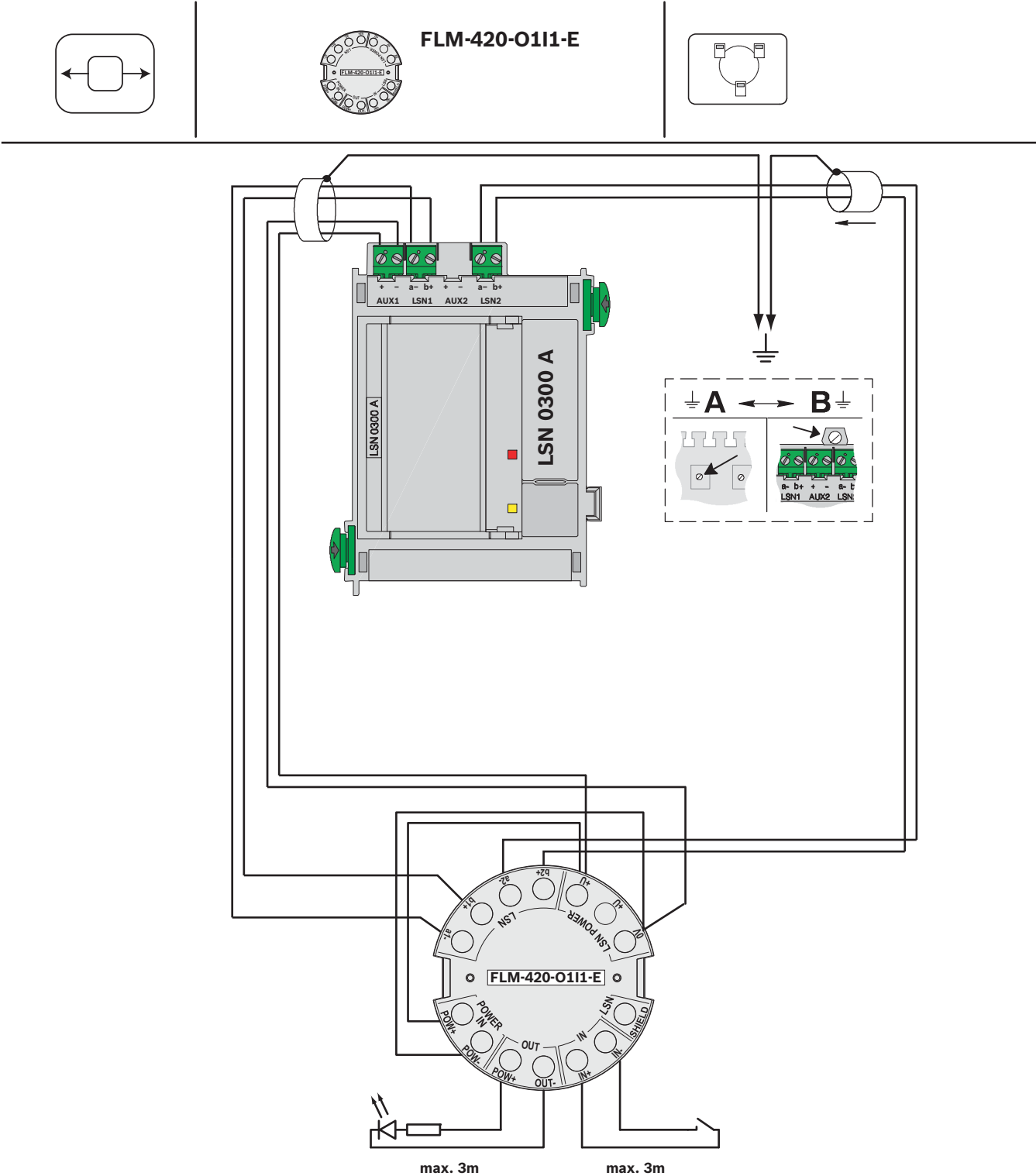


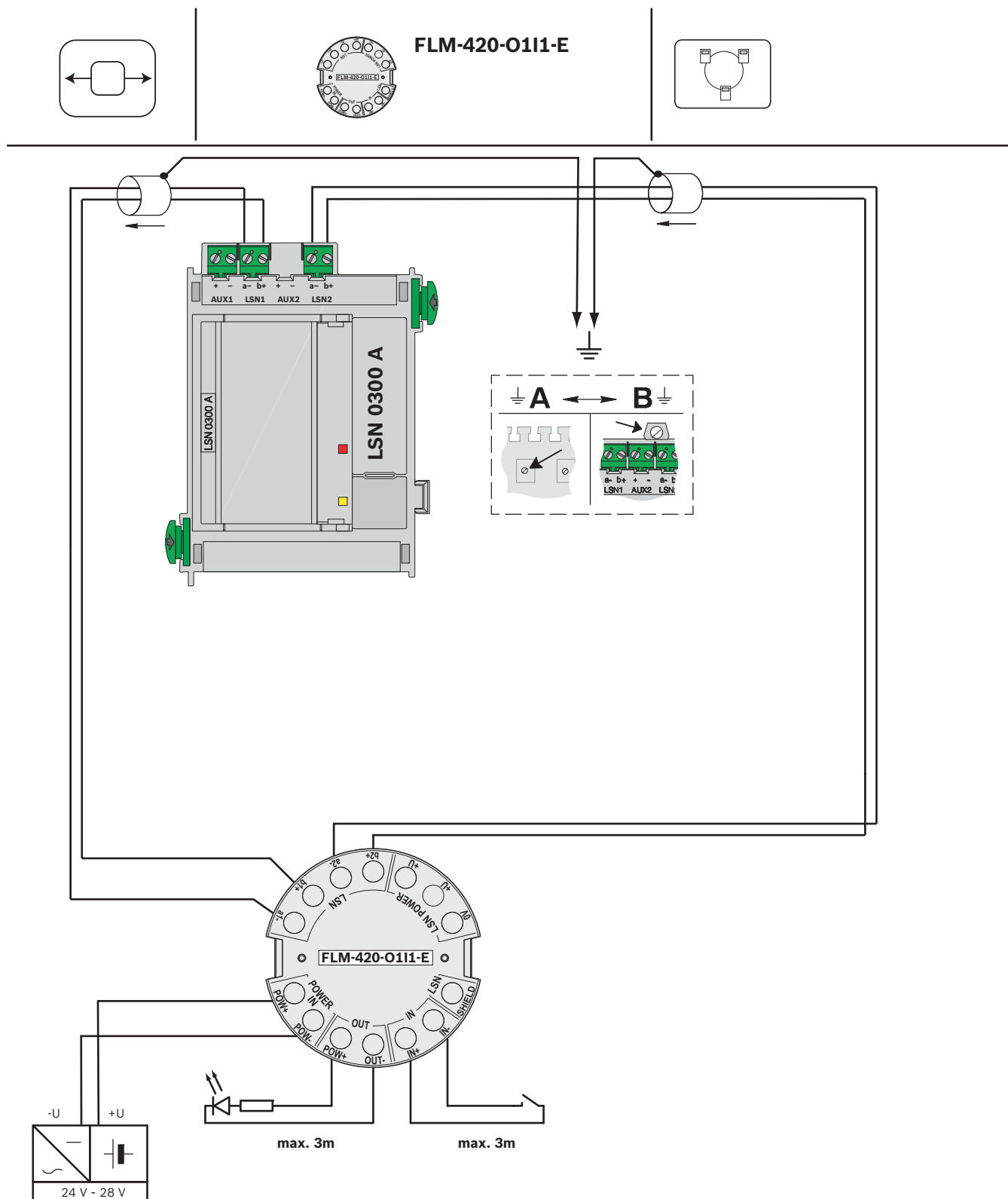
**FLM-I 420-S**

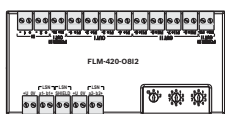
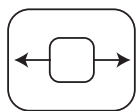




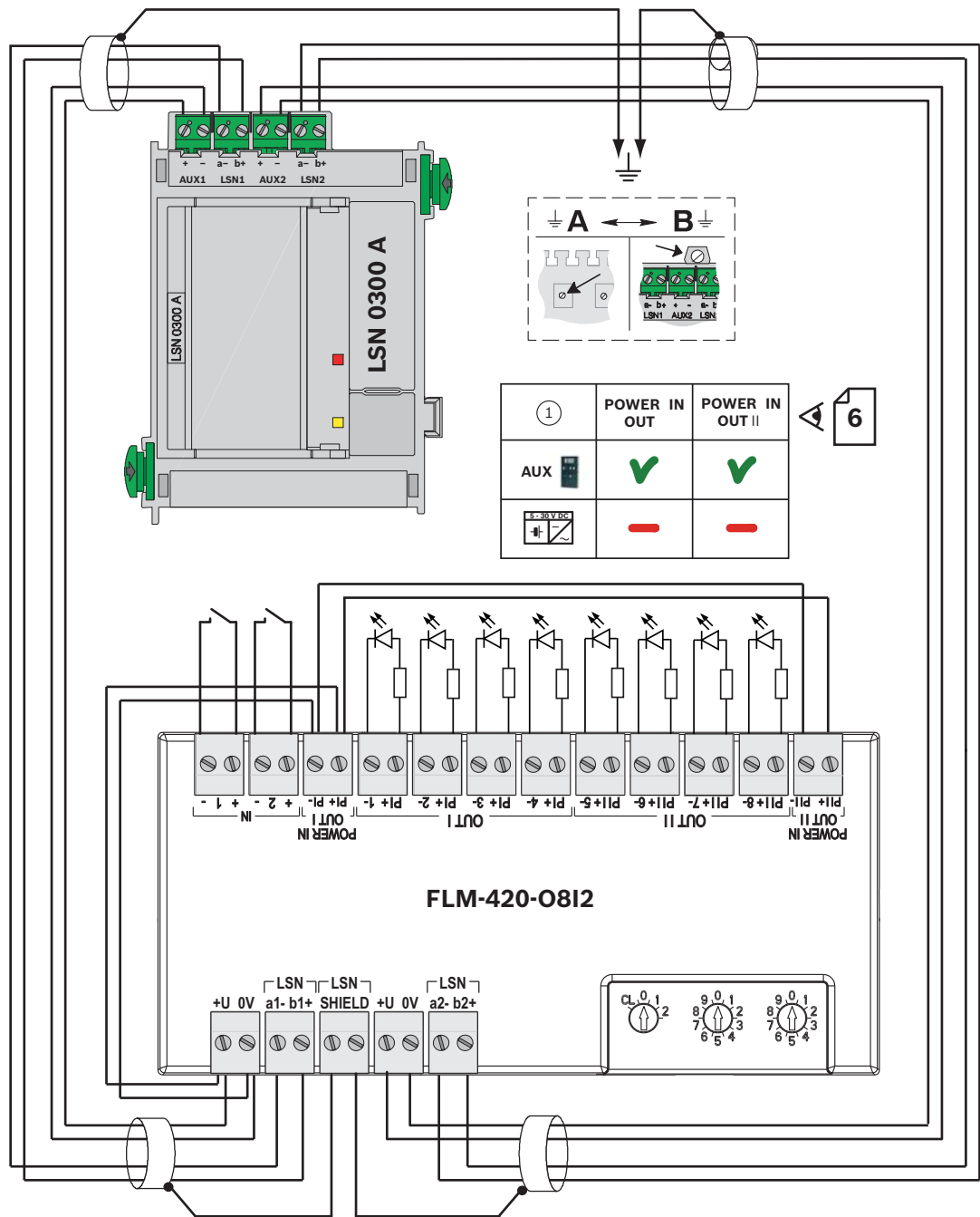
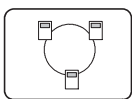


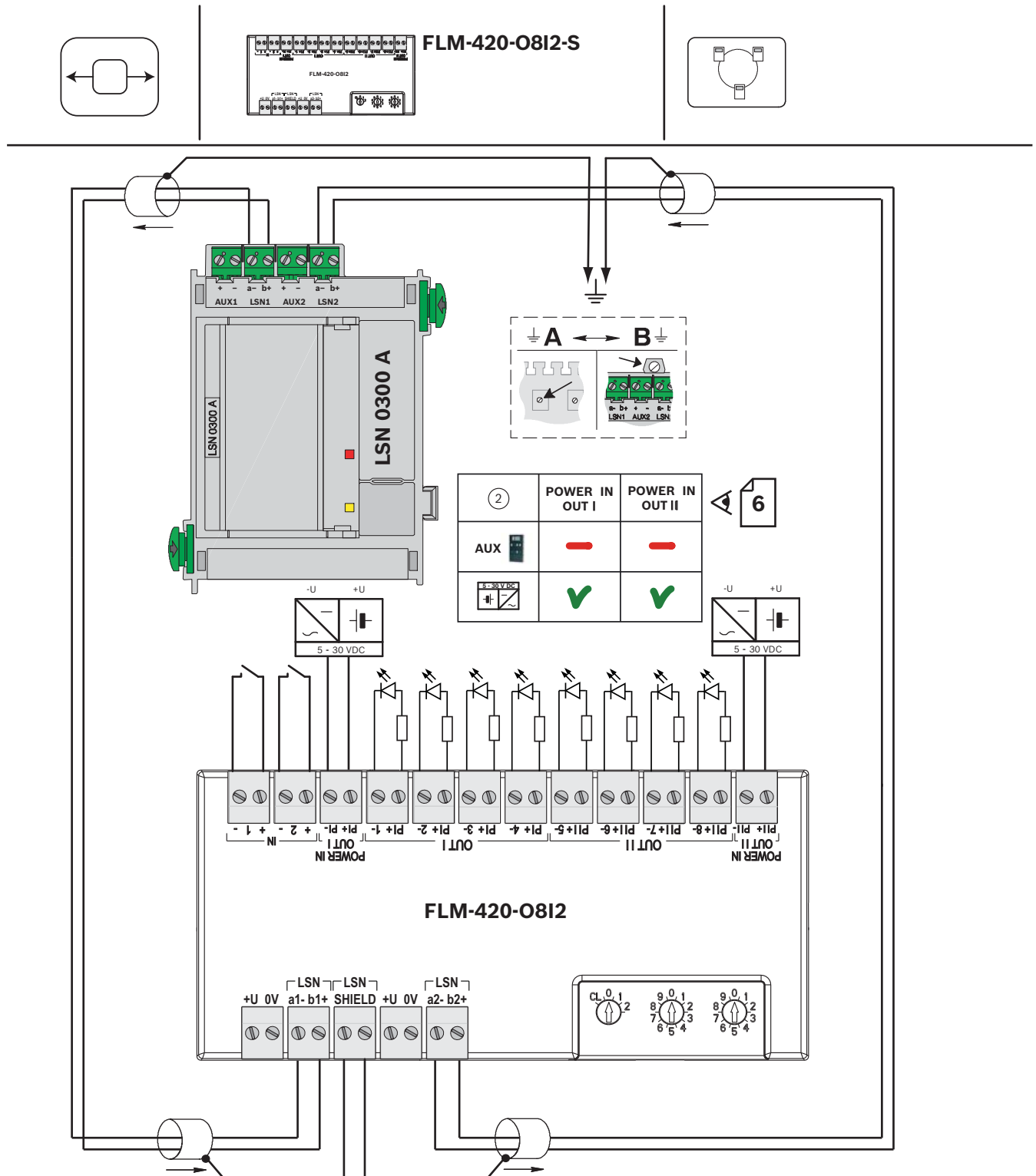


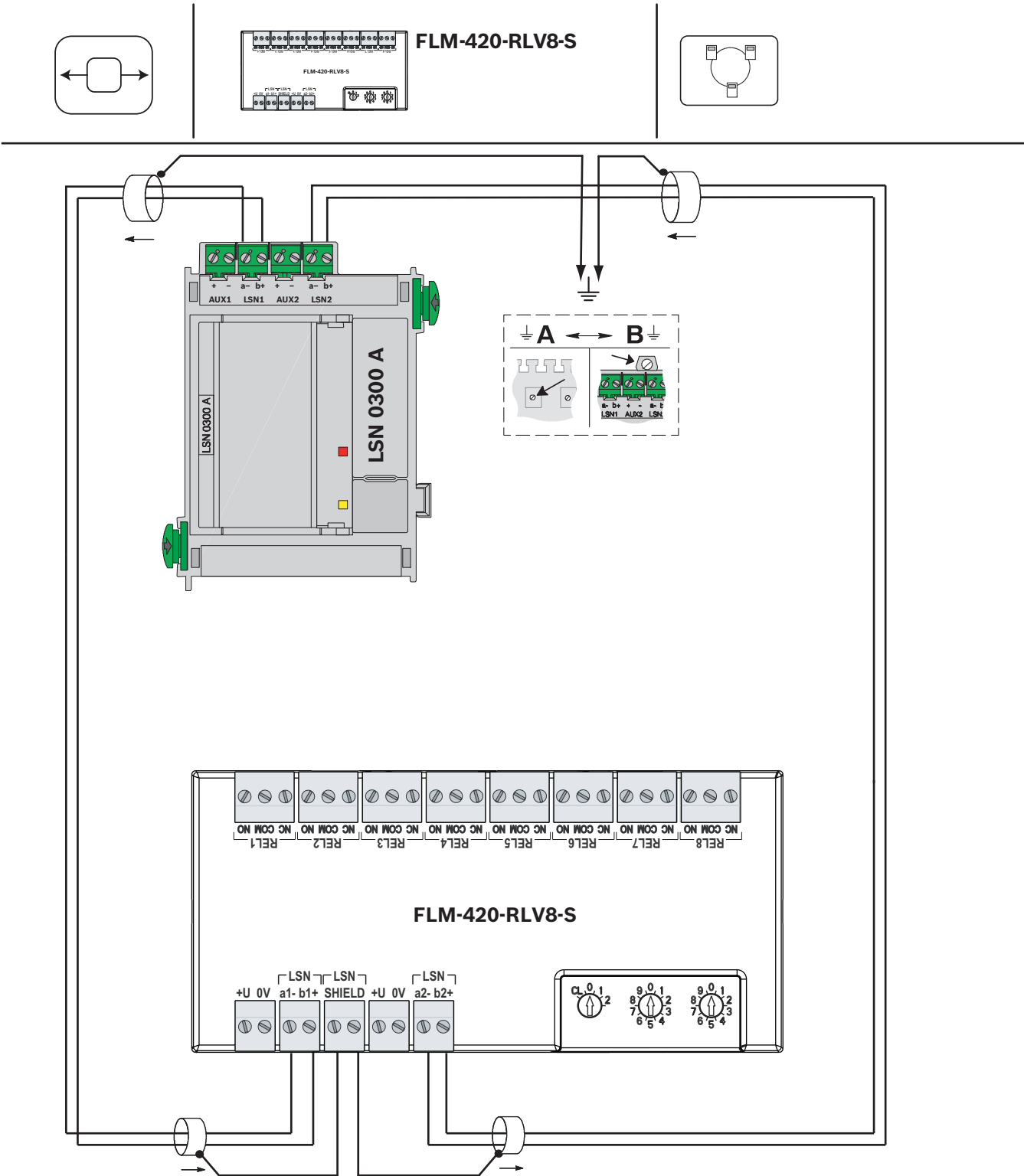


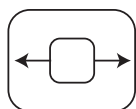


FLM-420-0812-S

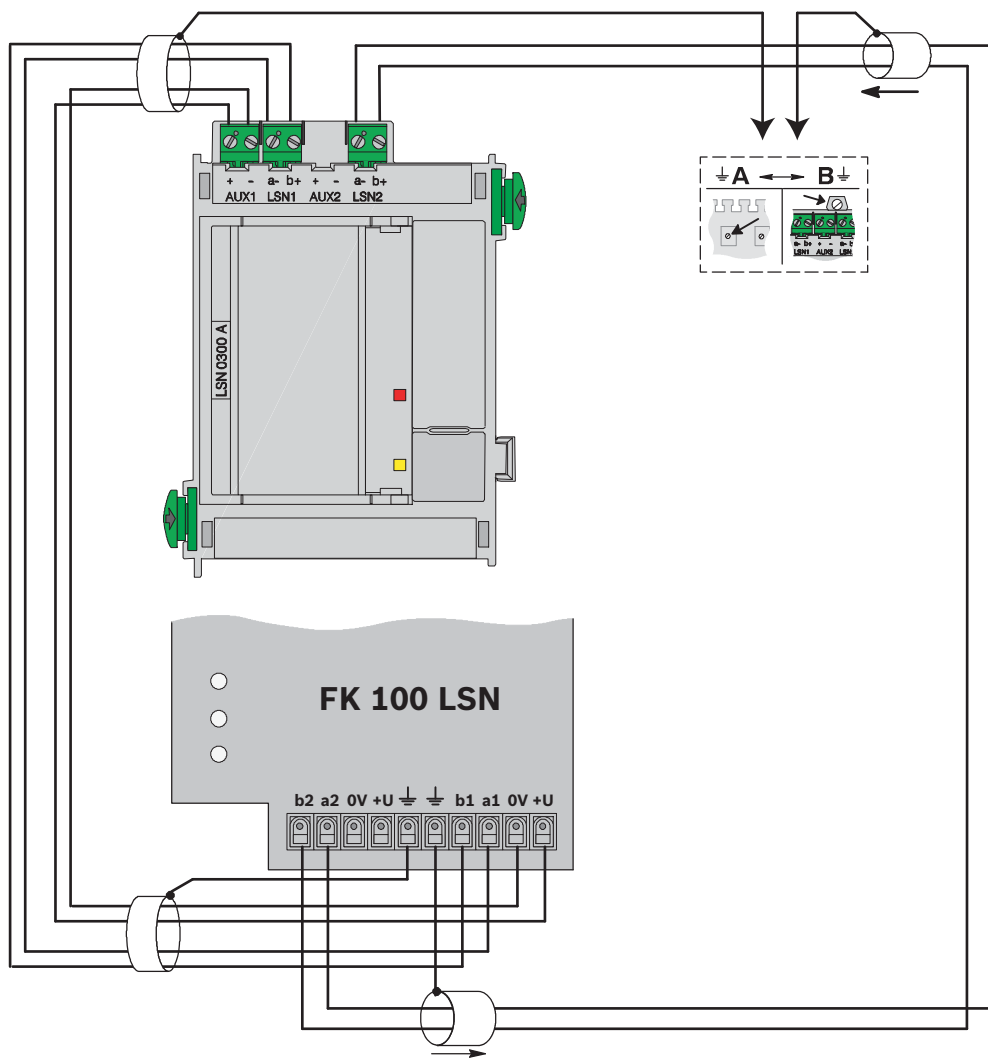
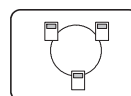


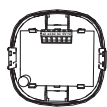




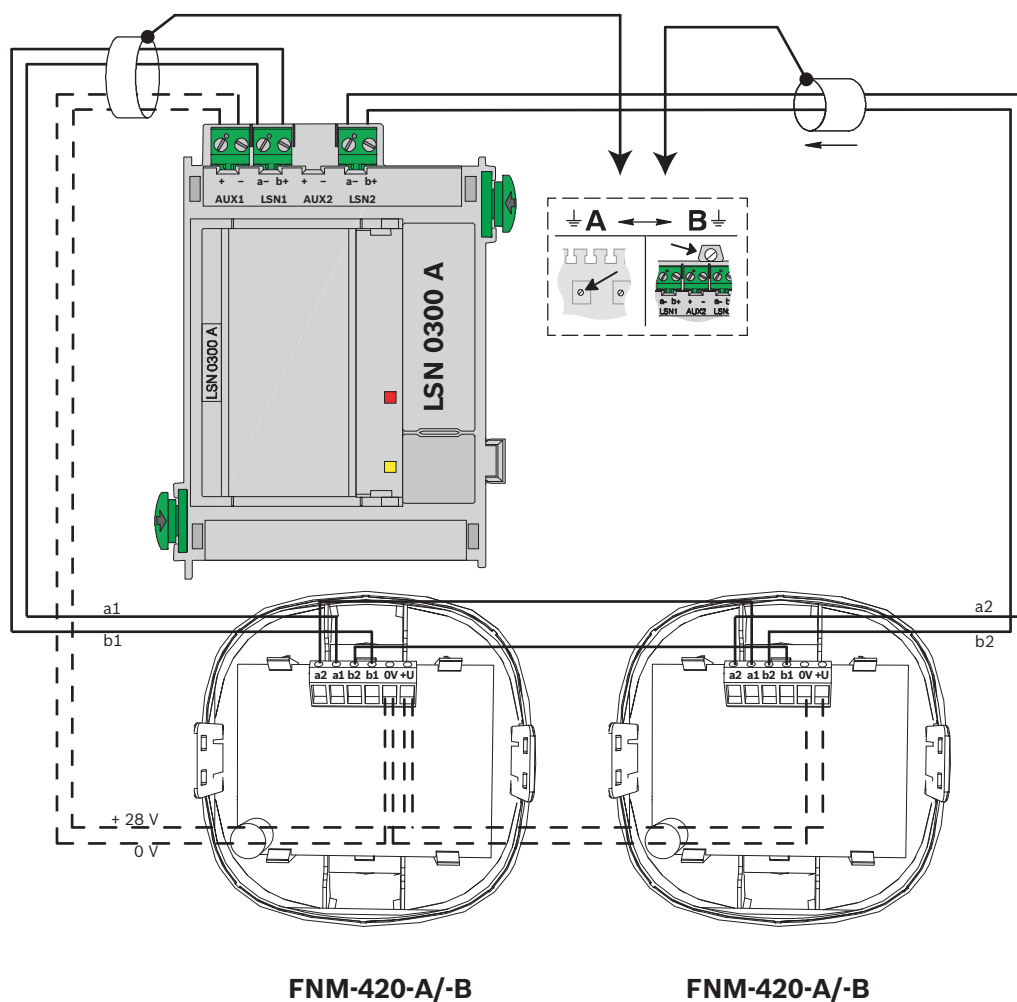
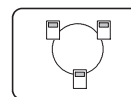


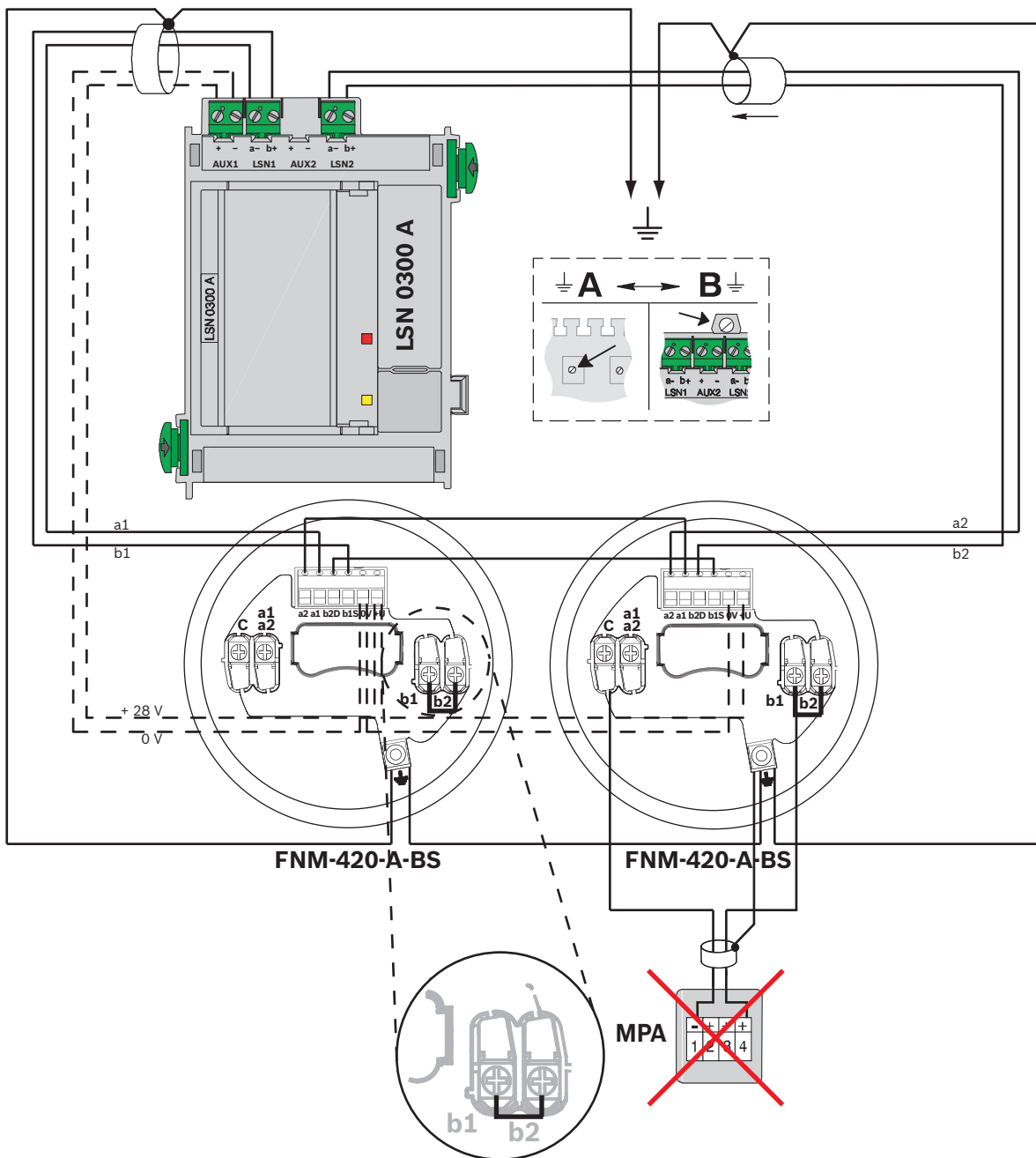
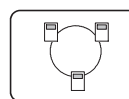
FK 100 LSN

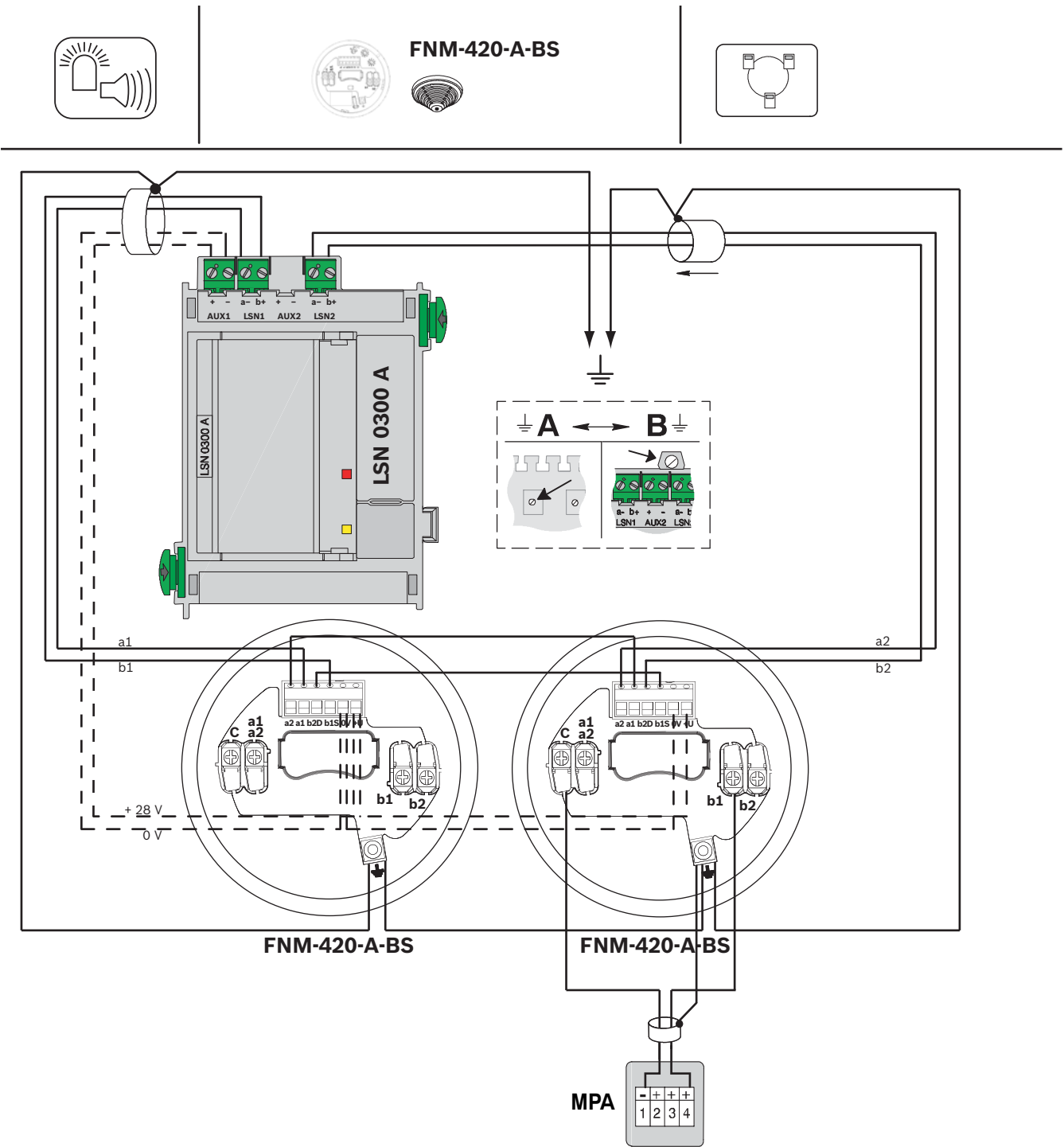


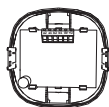


FNM-420-A/-B

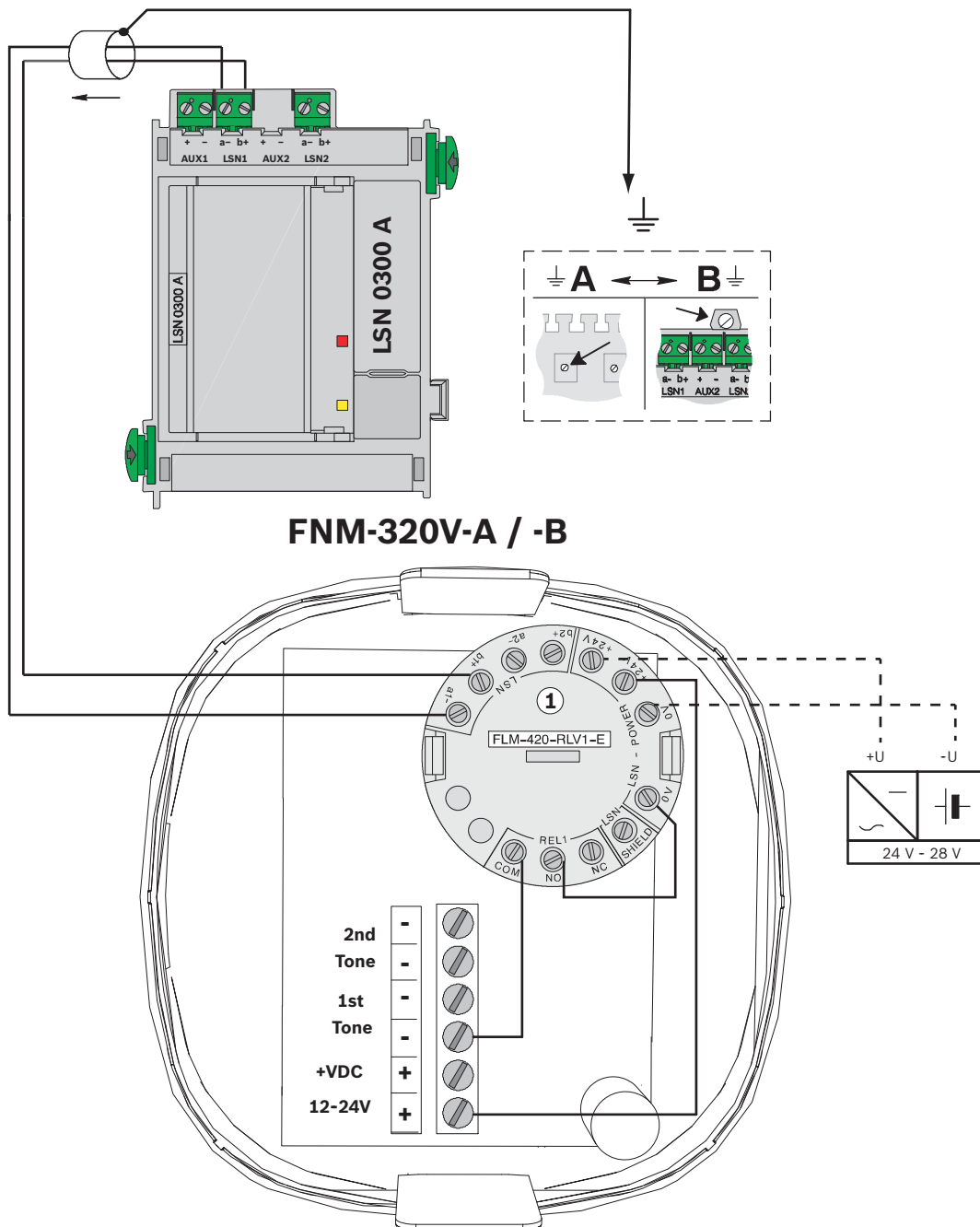
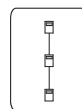


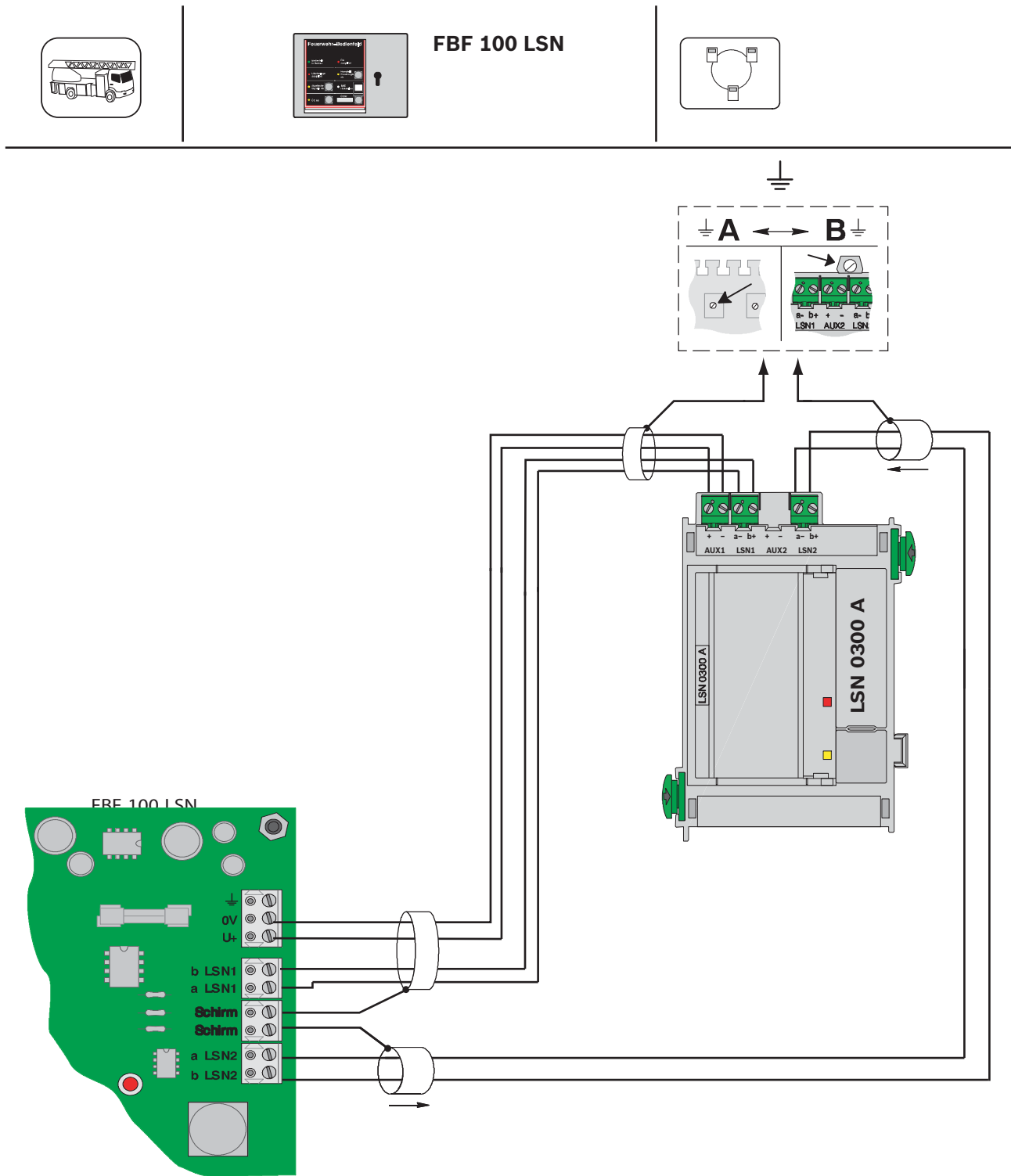
**FNM-420-A-BS**

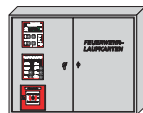




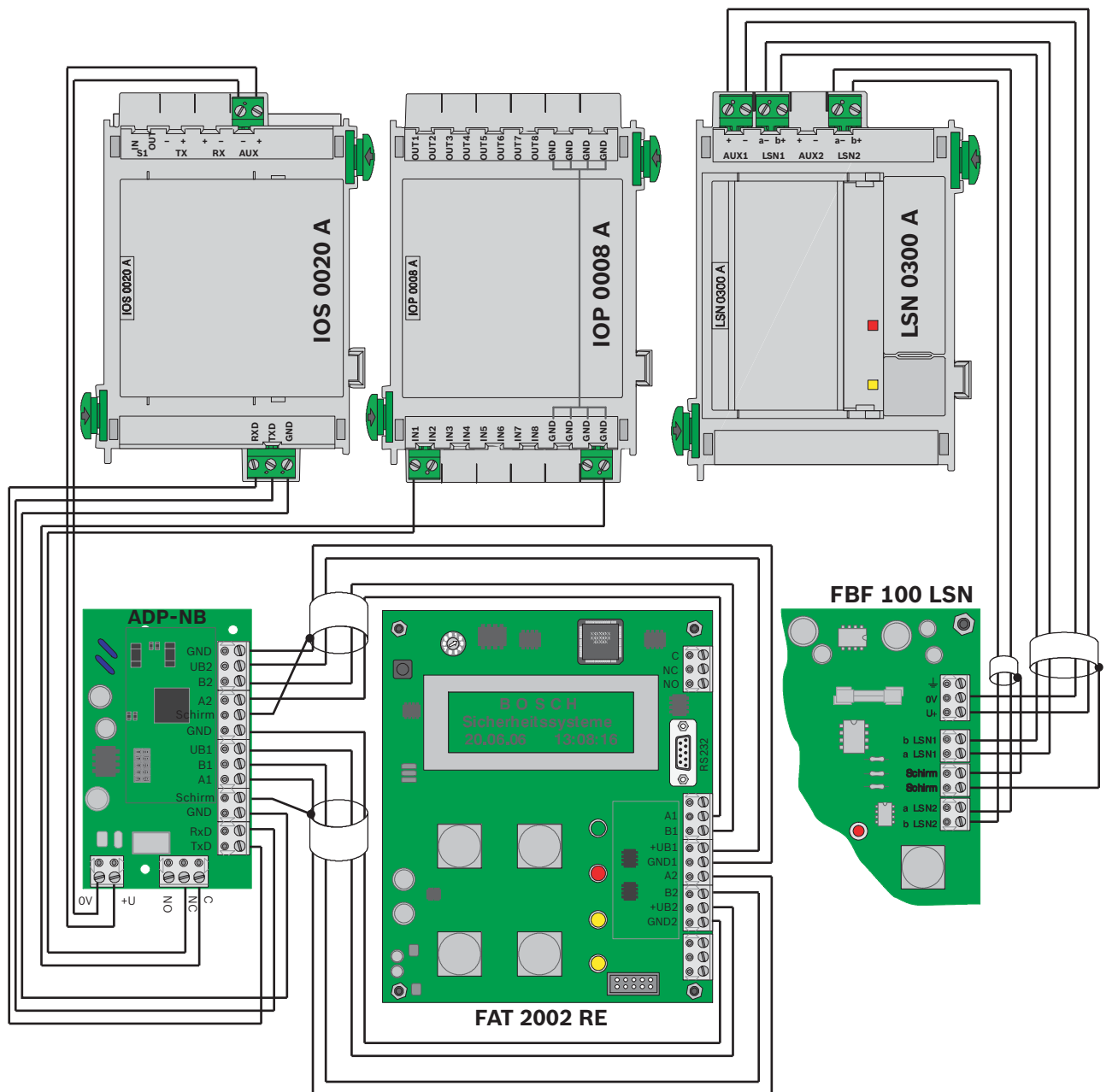
FNM-320V-A / -B

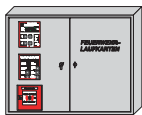






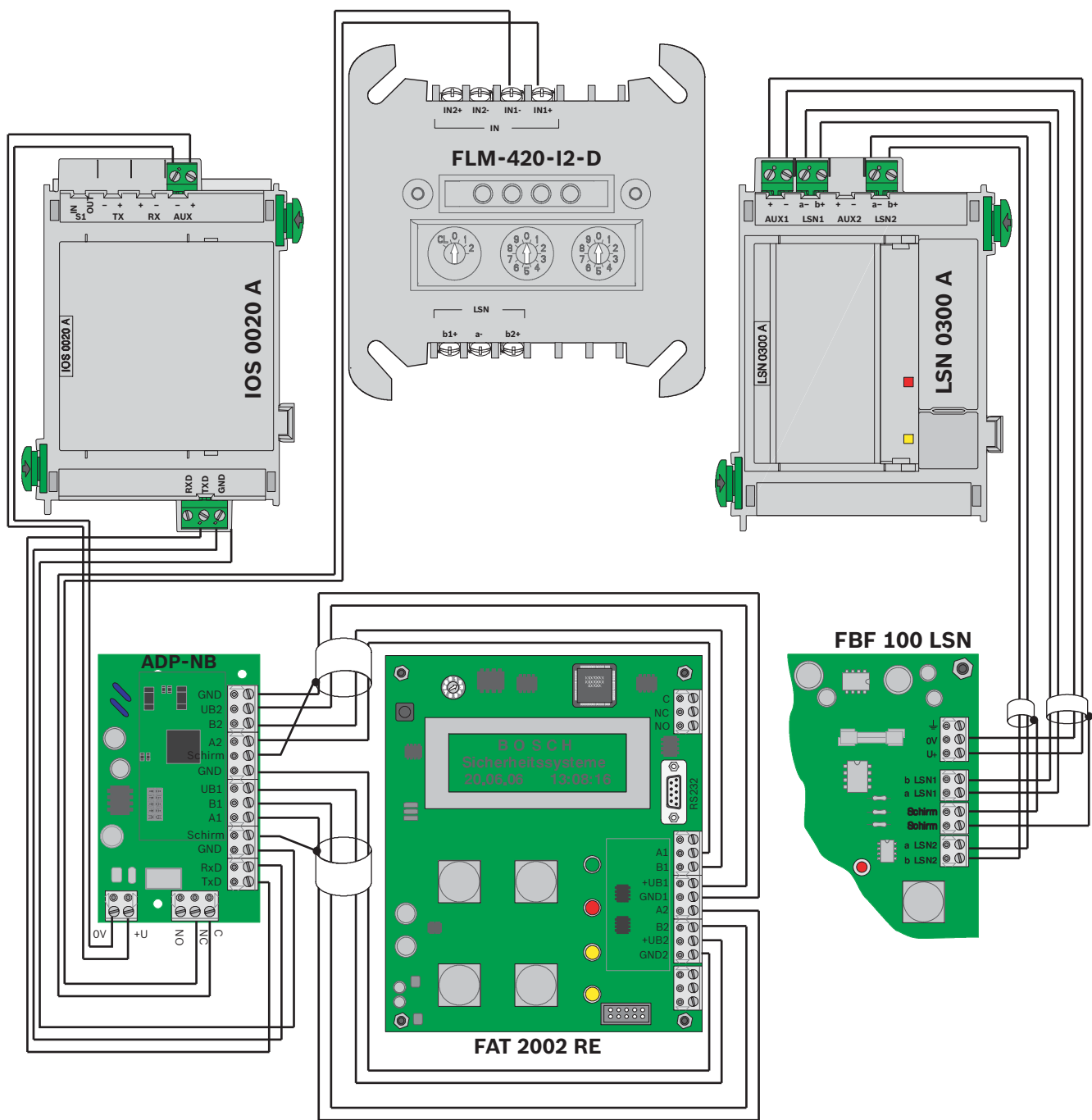
FIBS

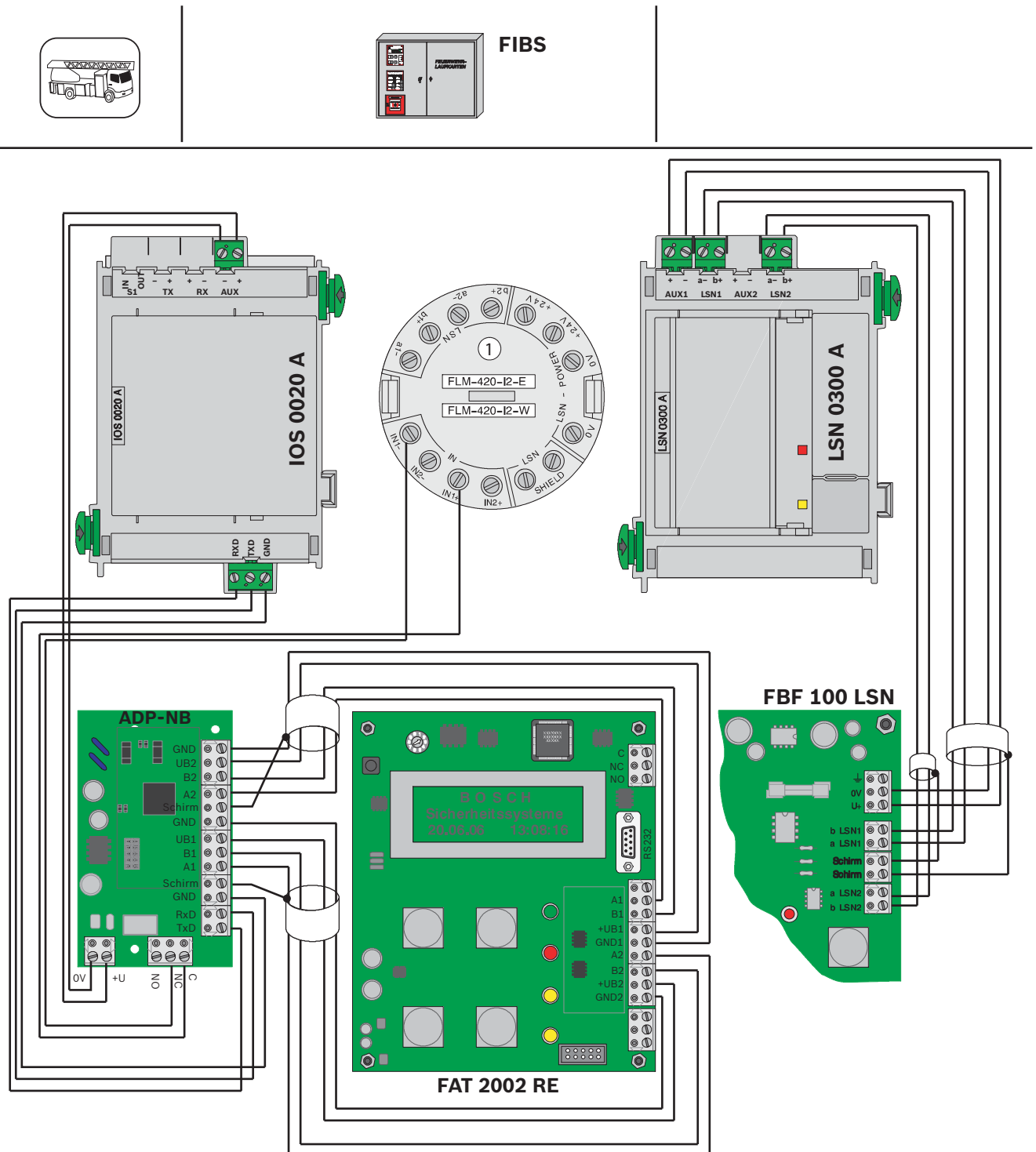


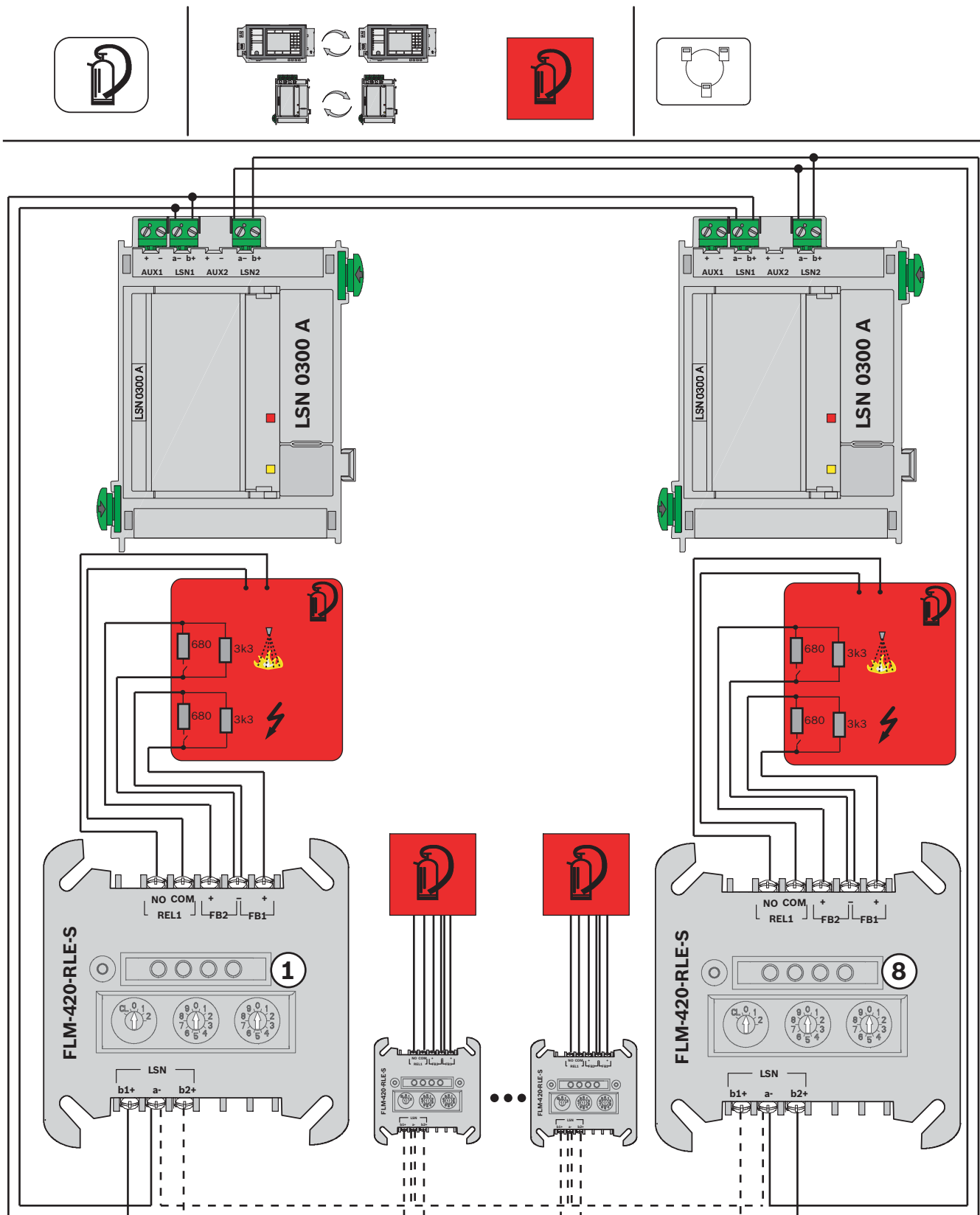


FIBS

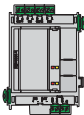
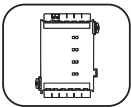
EN 54-2



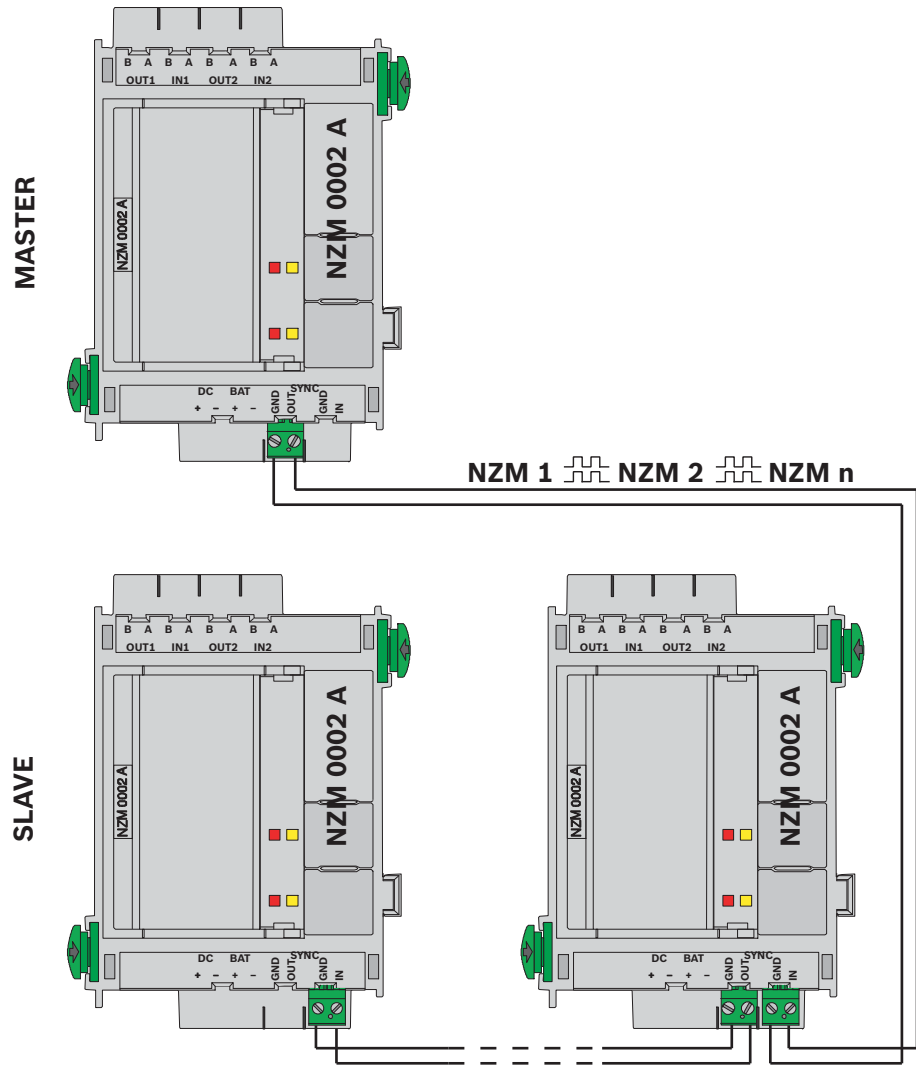


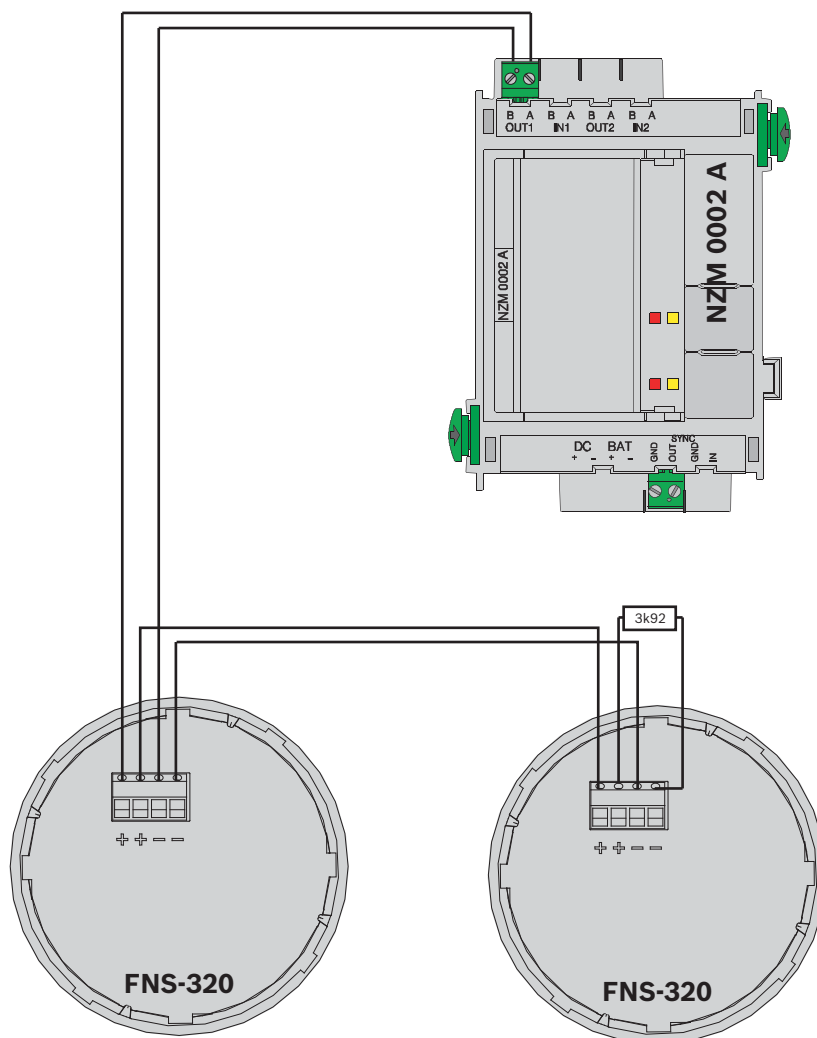
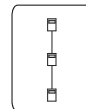


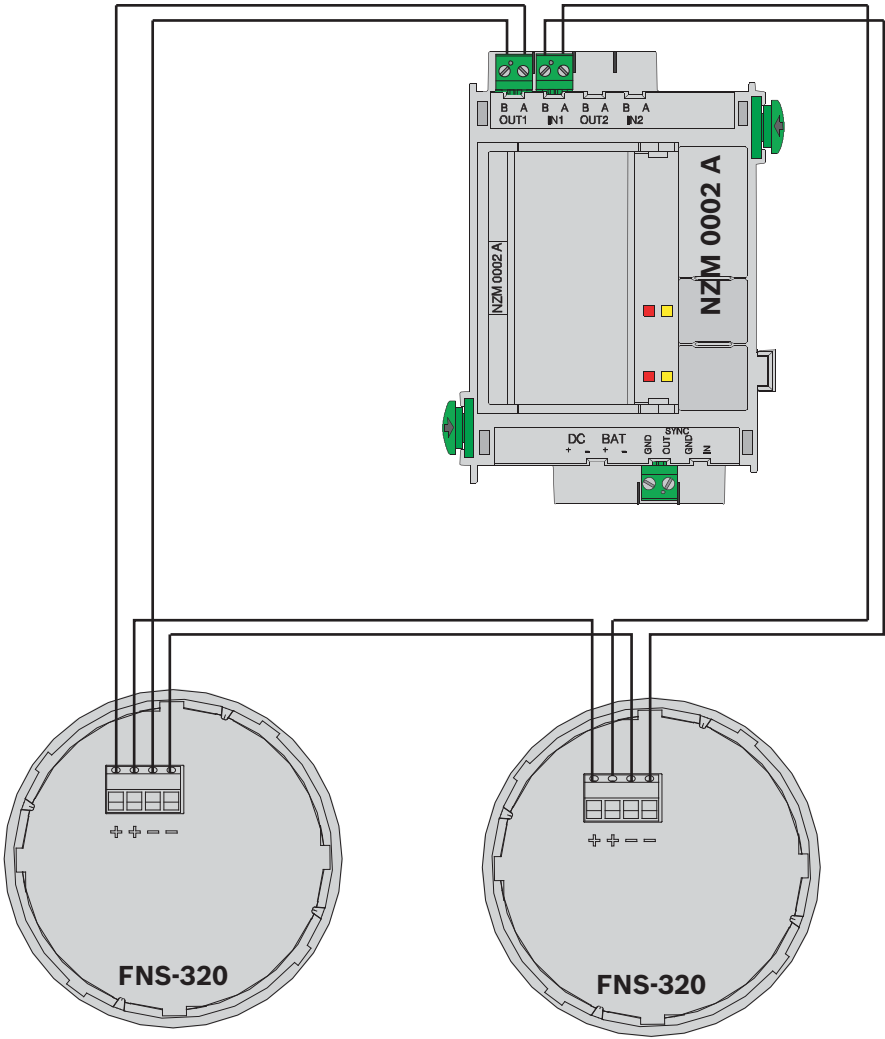
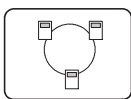
2.4.4**NZM 0002 A**

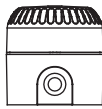
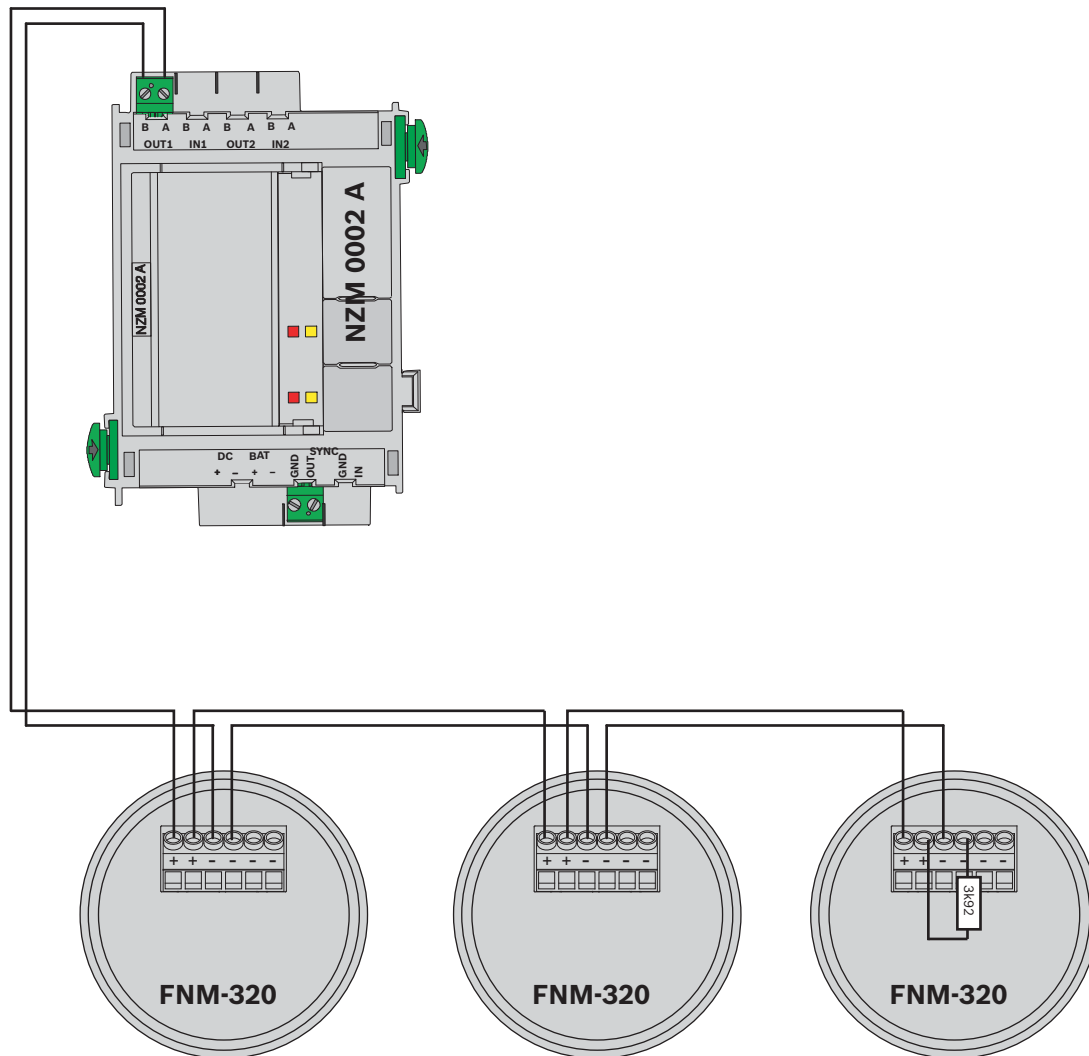
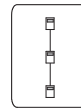


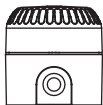
NZM 0002 A



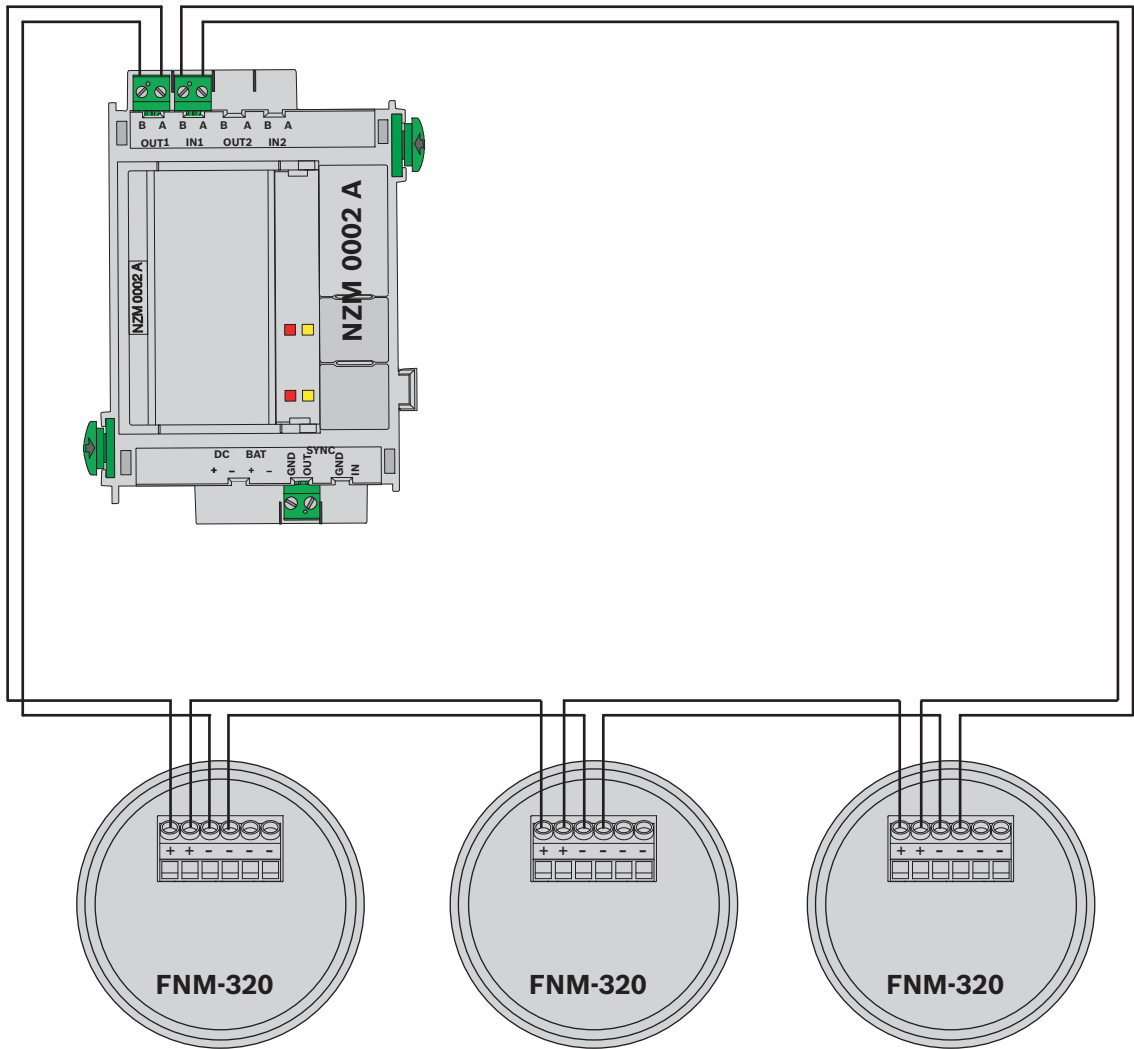
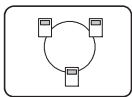
**FNS-320**

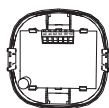
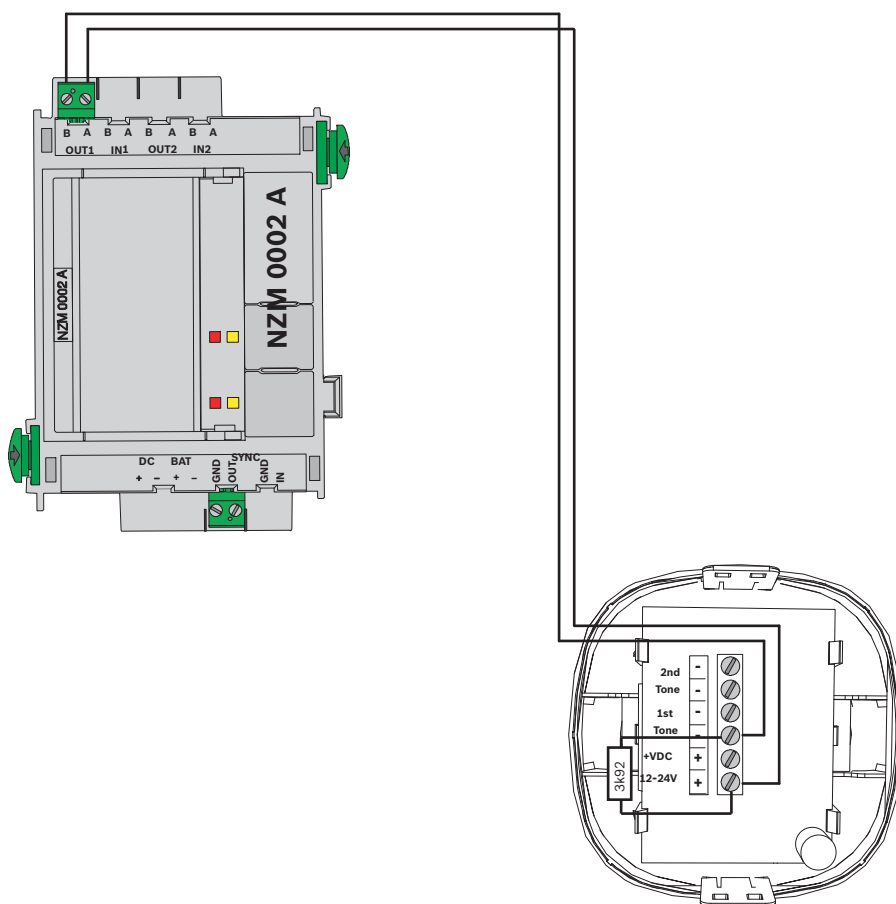
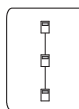


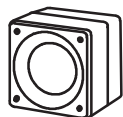
**FNM-320**



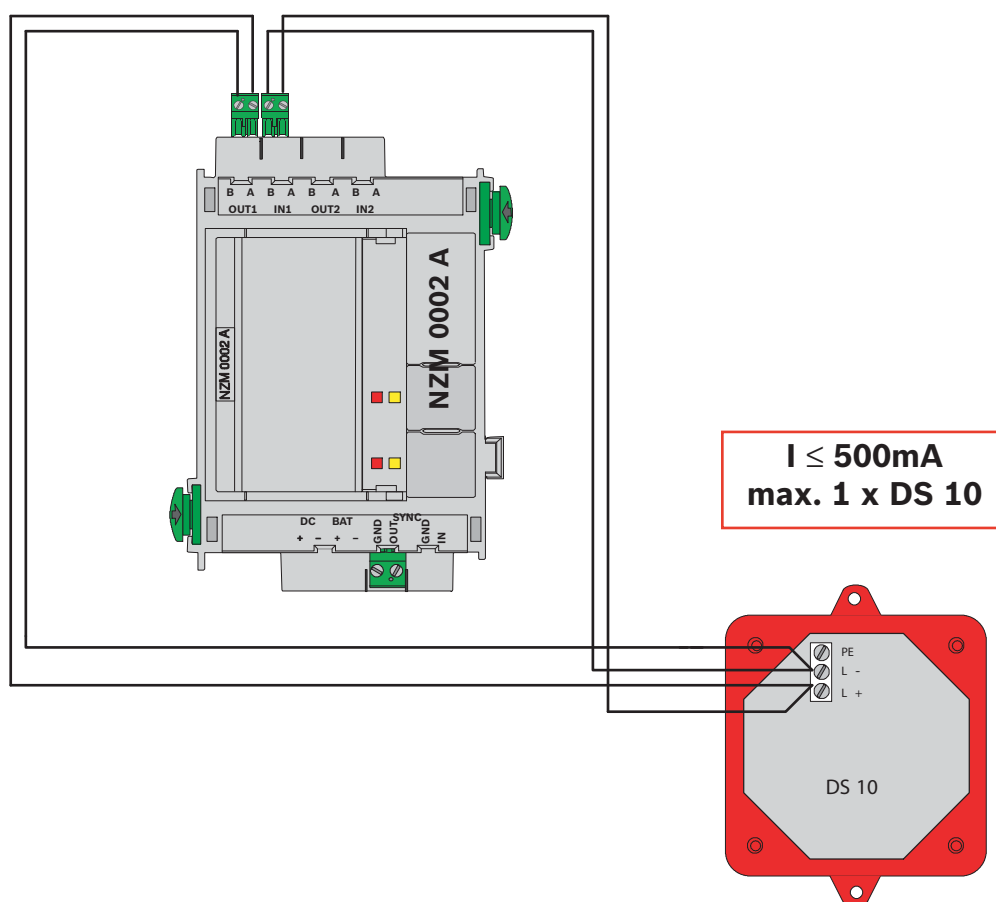
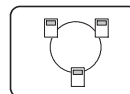
FNM-320

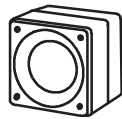
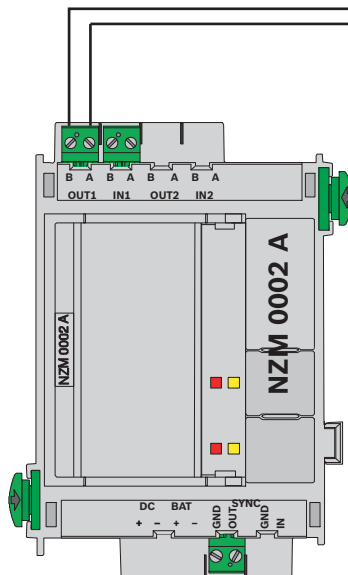
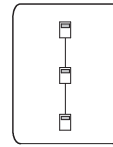


**FNM-320V-A / -B**

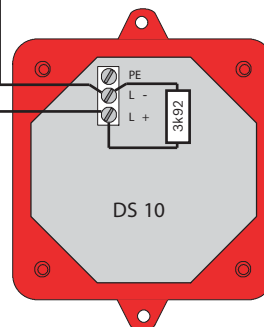


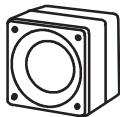
DS 10



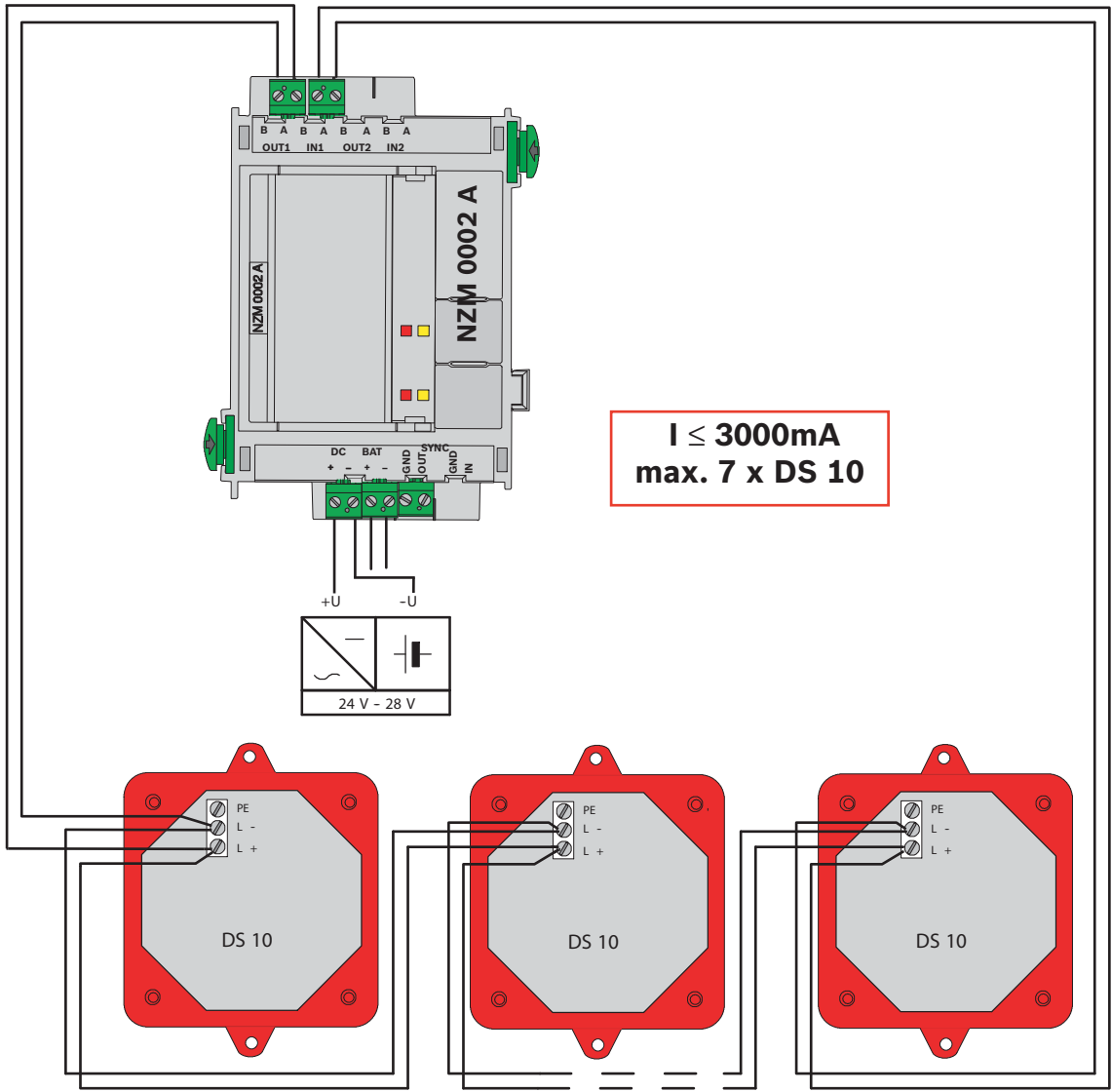
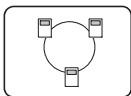
**DS 10**

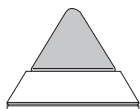
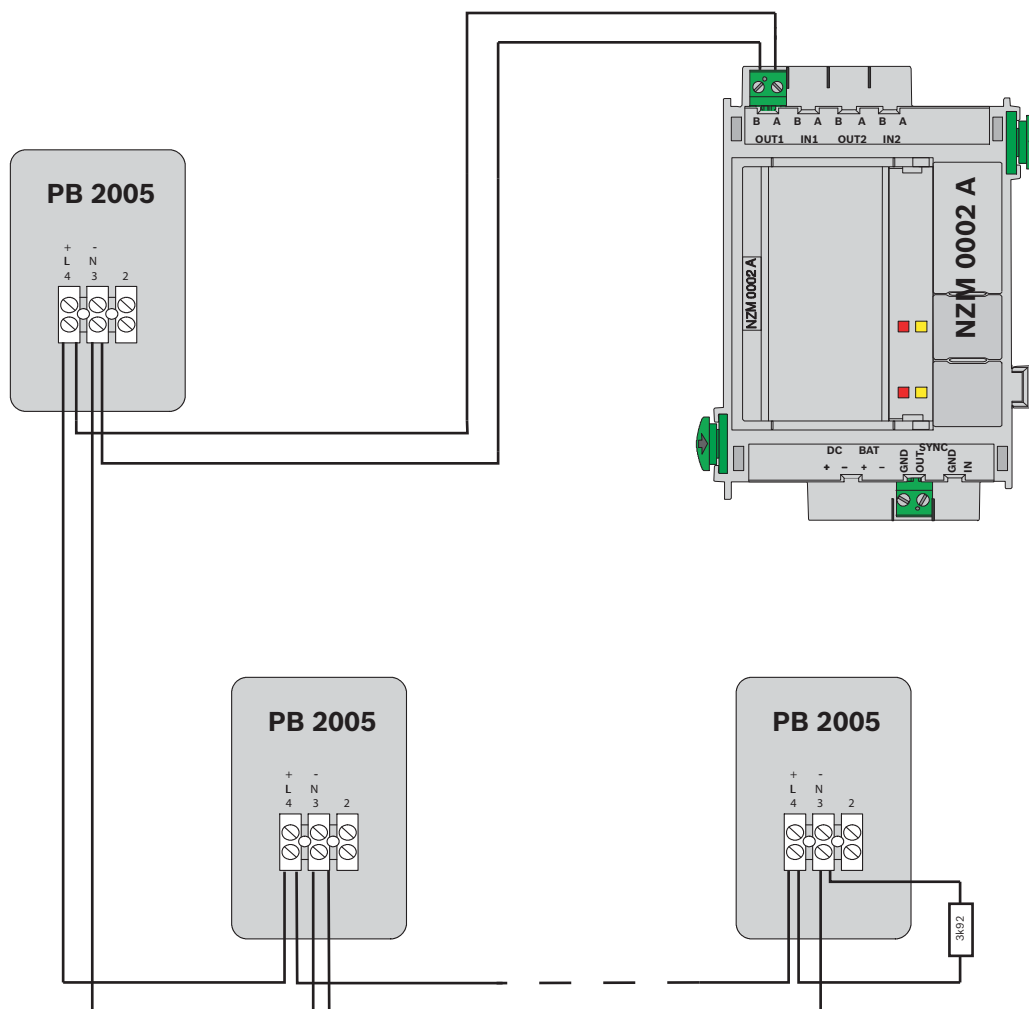
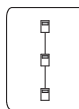
$I \leq 500\text{mA}$
max. 1 x DS 10

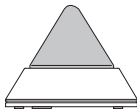




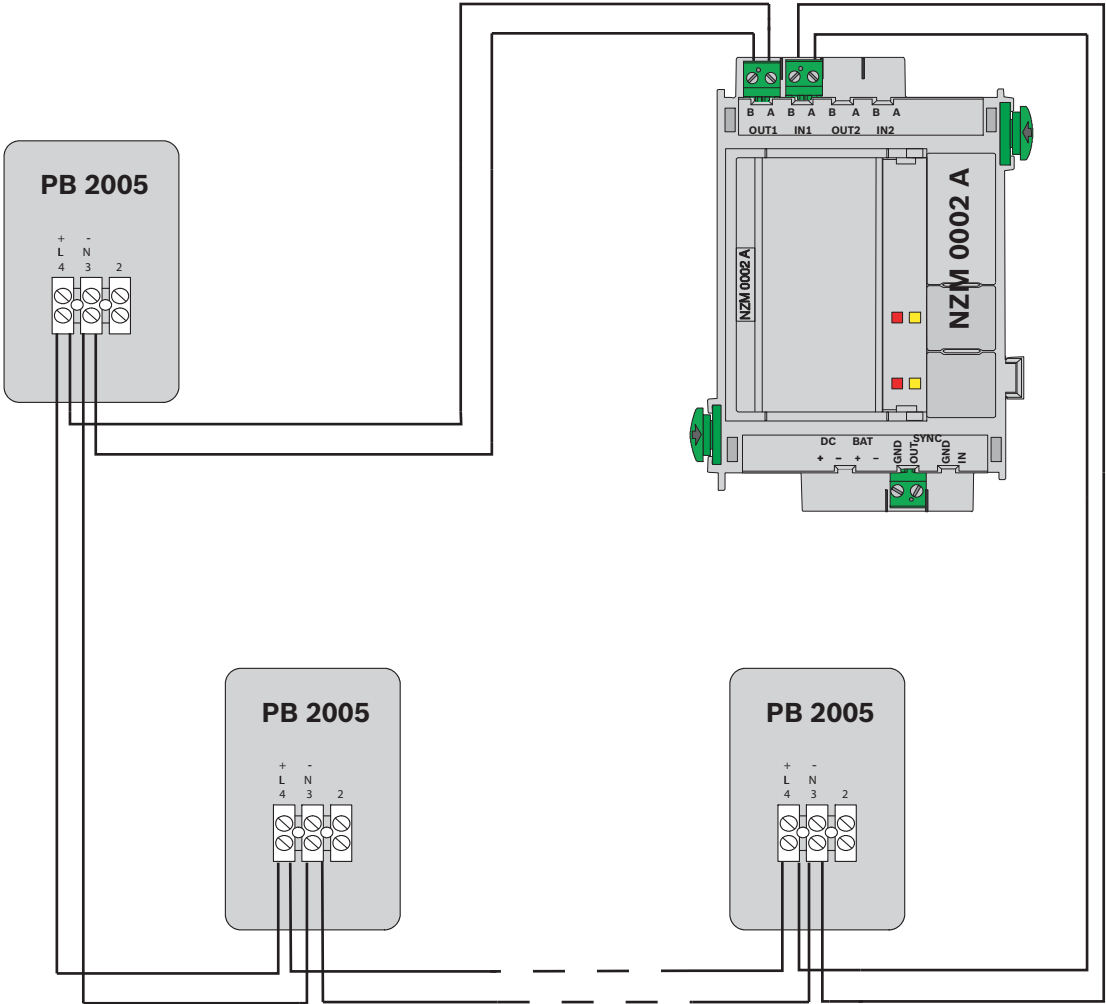
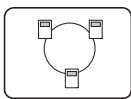
DS 10

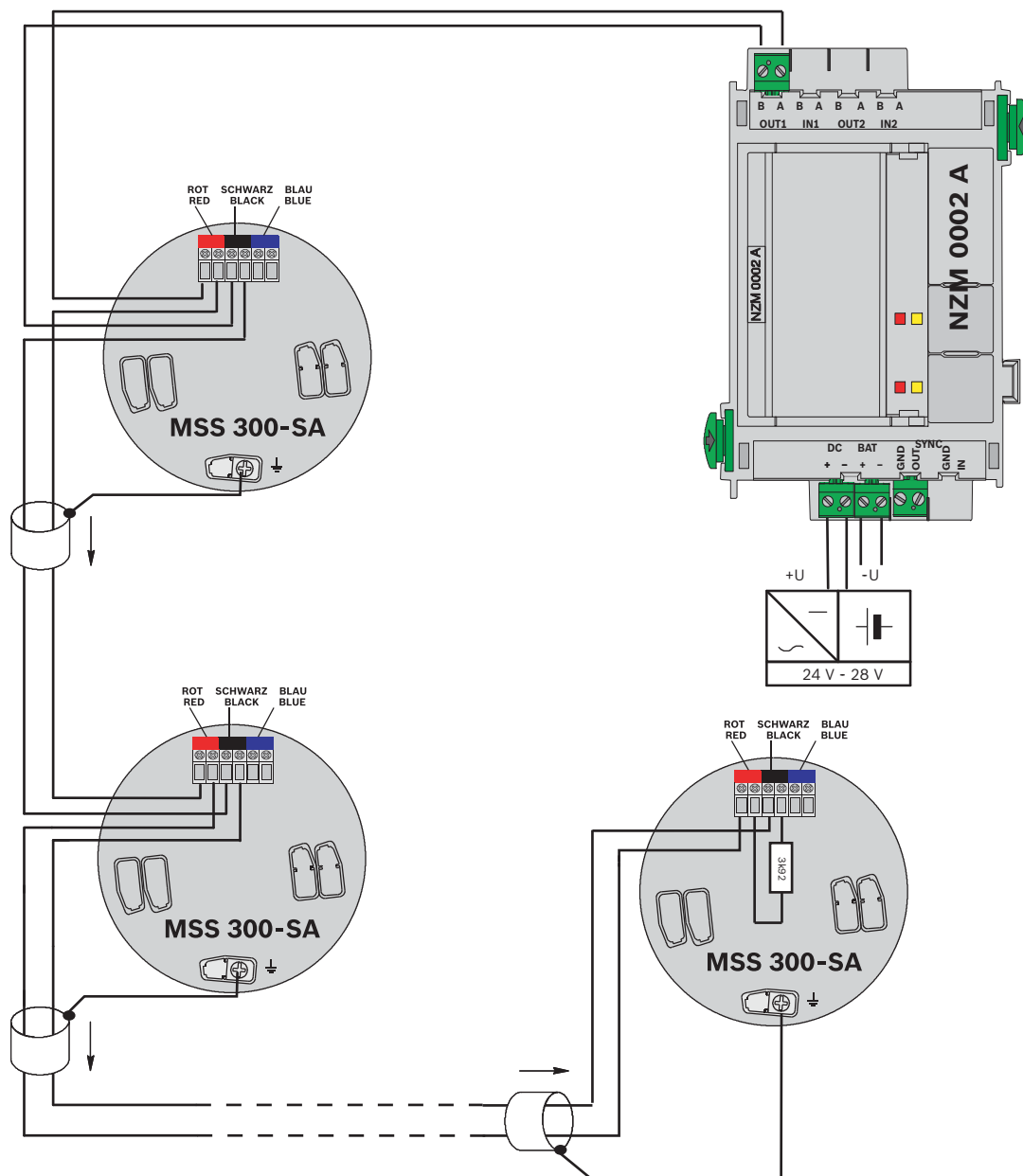
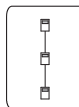


**PB 2005**



PB 2005



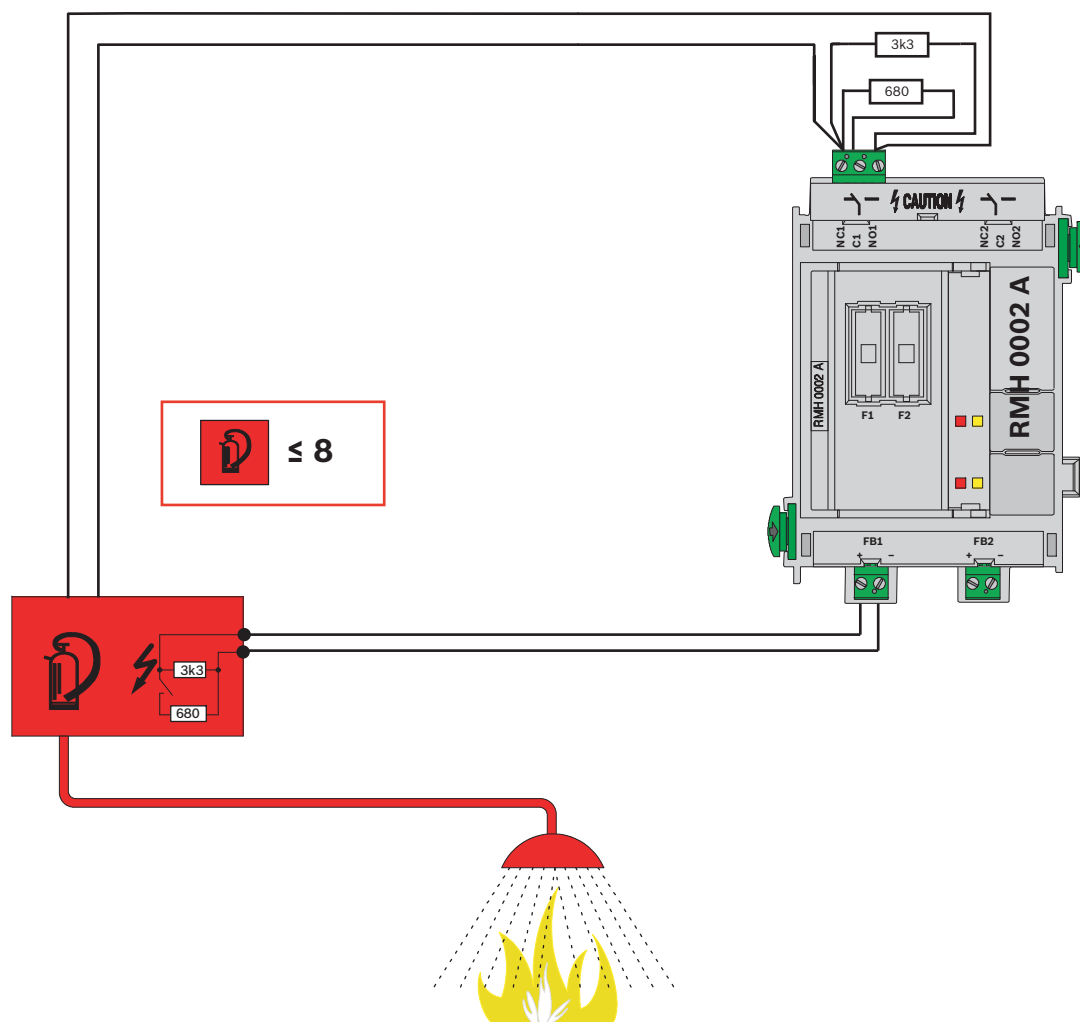
**MSS 300-SA**

2.4.5

RMH 0002 A



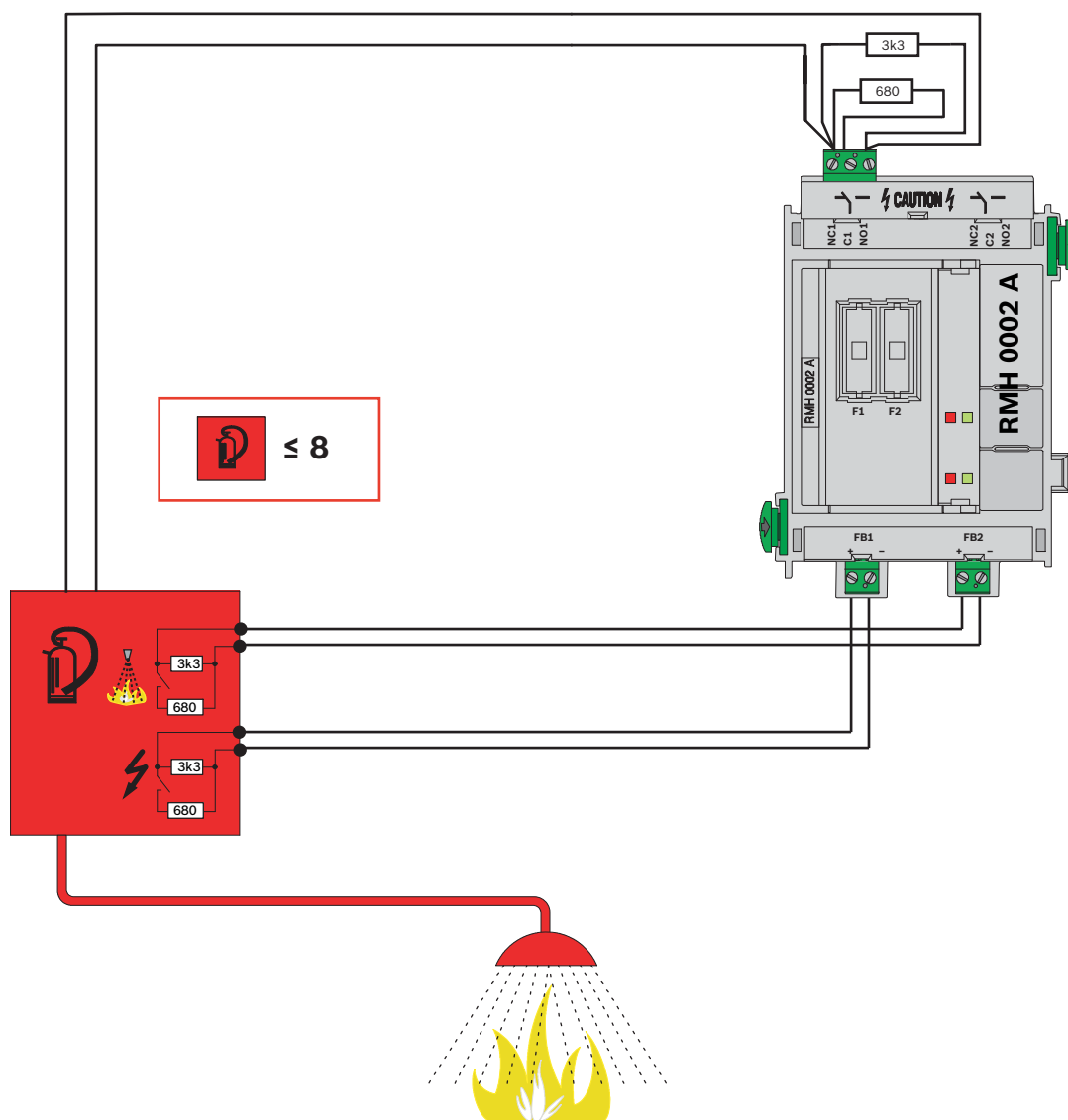
Löschanlage

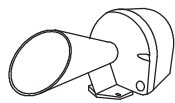
VdS 2496



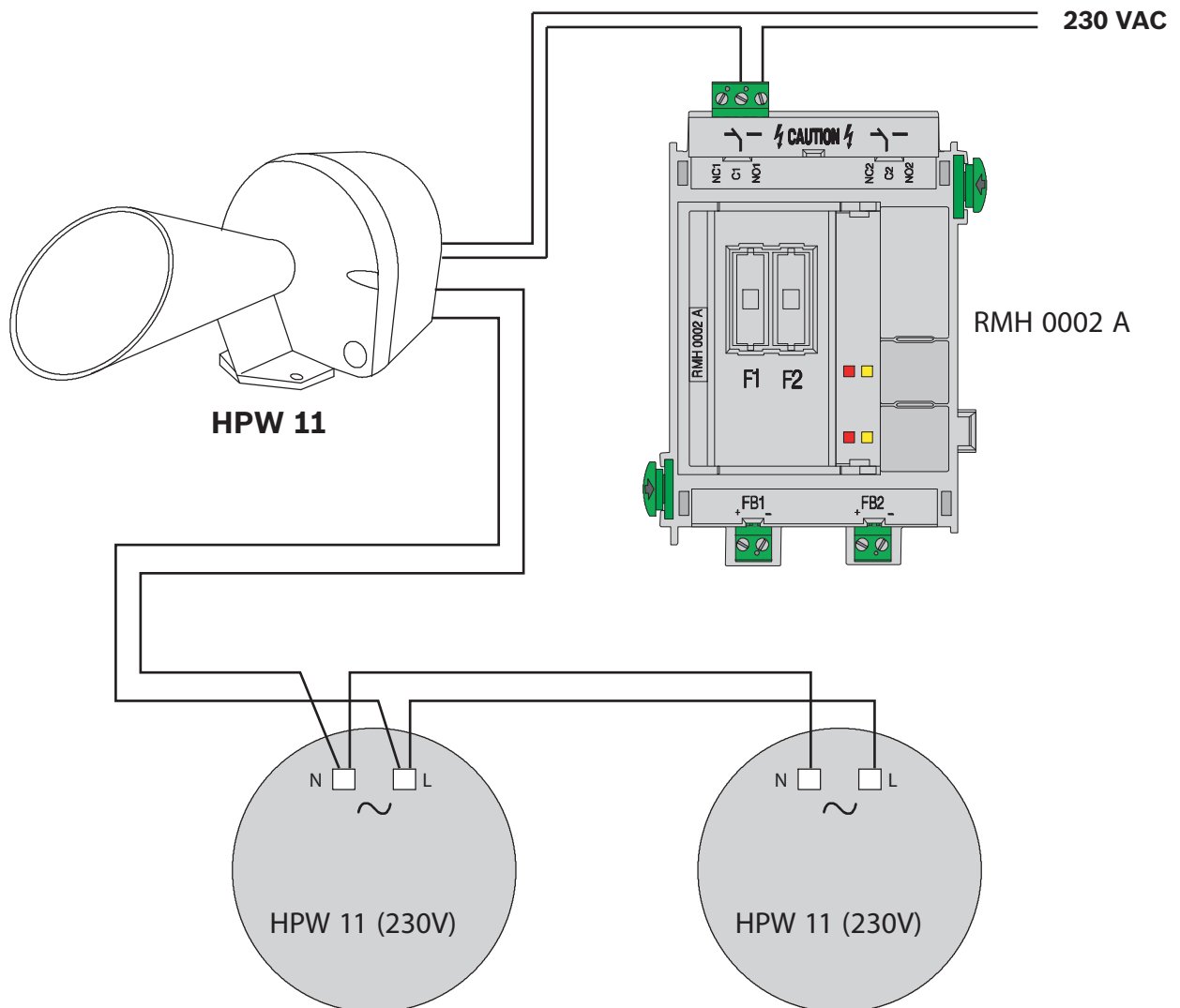
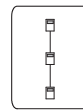
Löschanlage

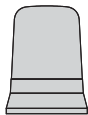
VdS 2496/2005



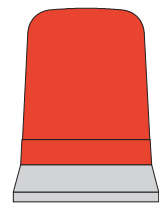
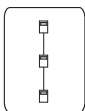


HPW 11

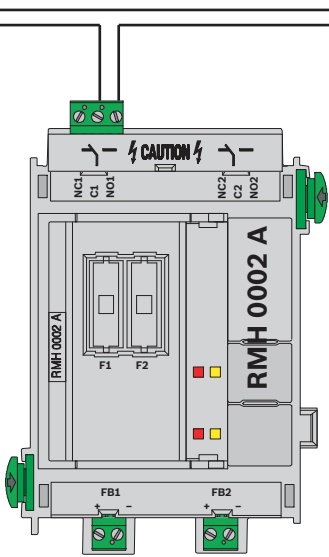




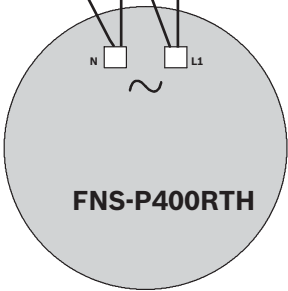
FNS-P400RTH



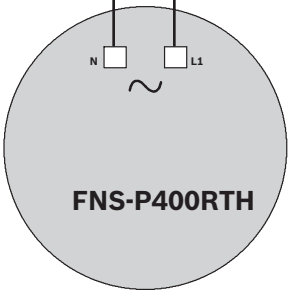
FNS-P400RTH



N L1 230 VAC



FNS-P400RTH

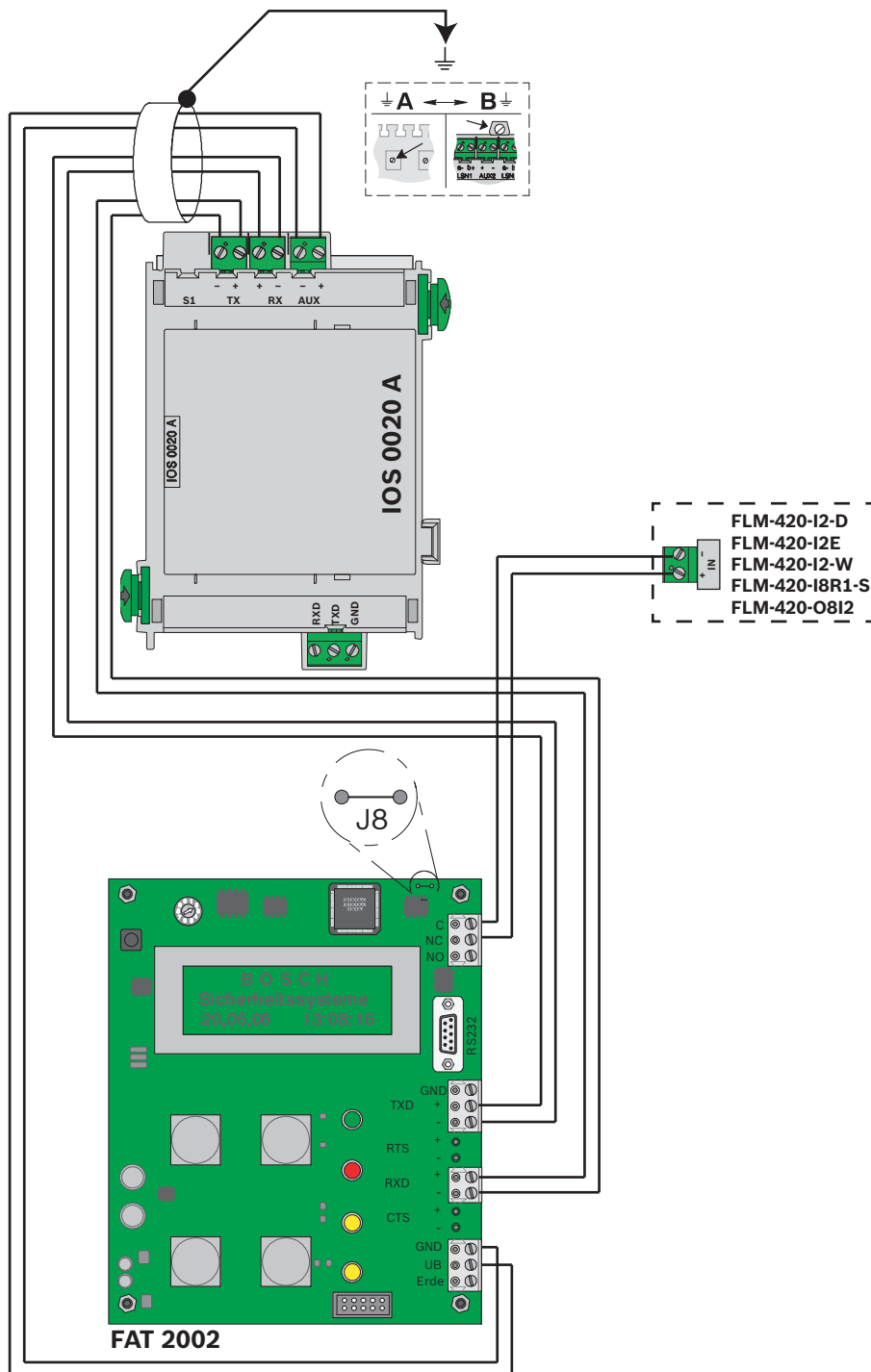


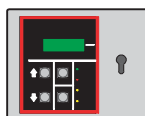
FNS-P400RTH

2.4.6**IOS 0020 A**

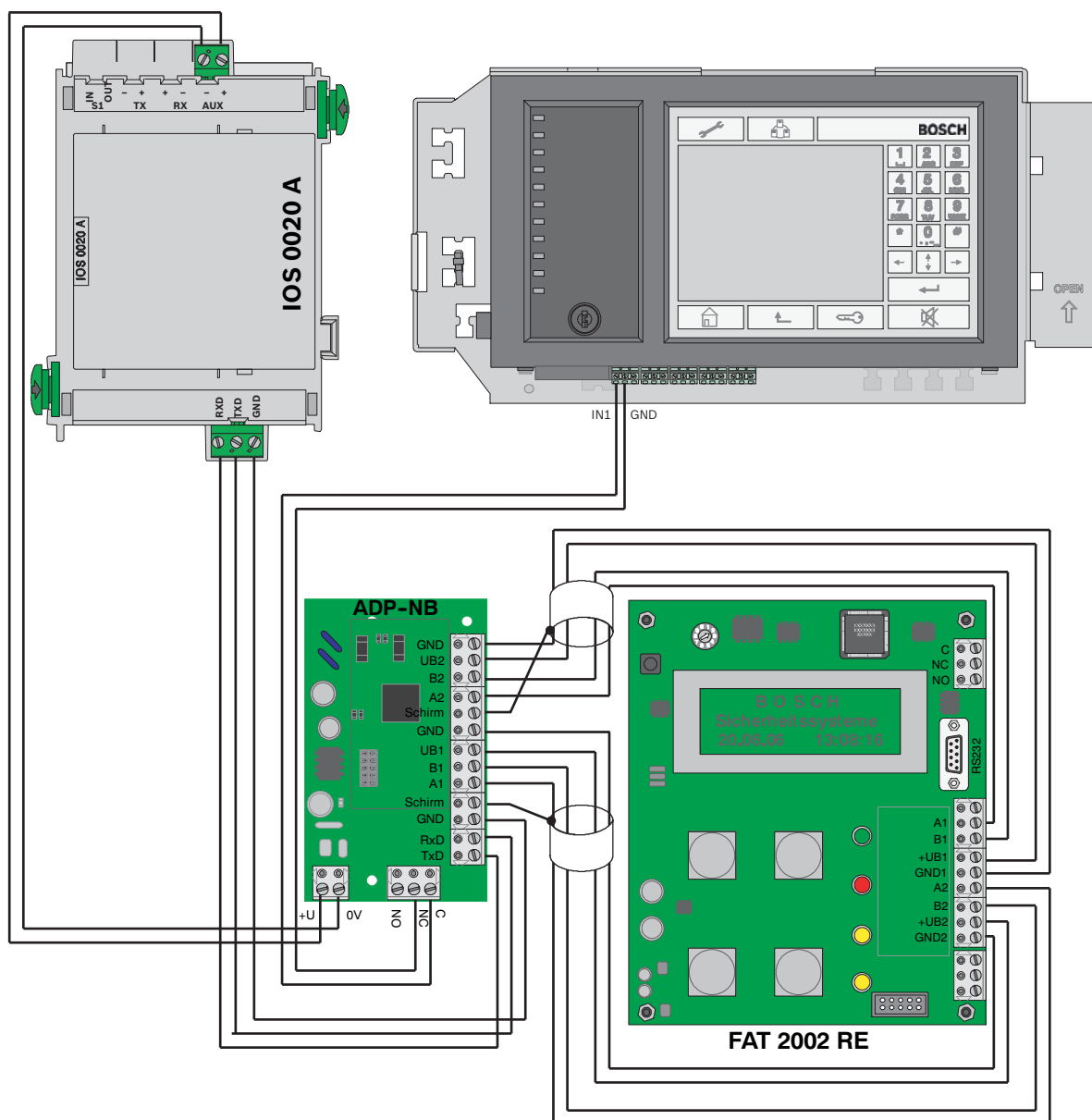


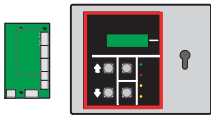
FAT 2002



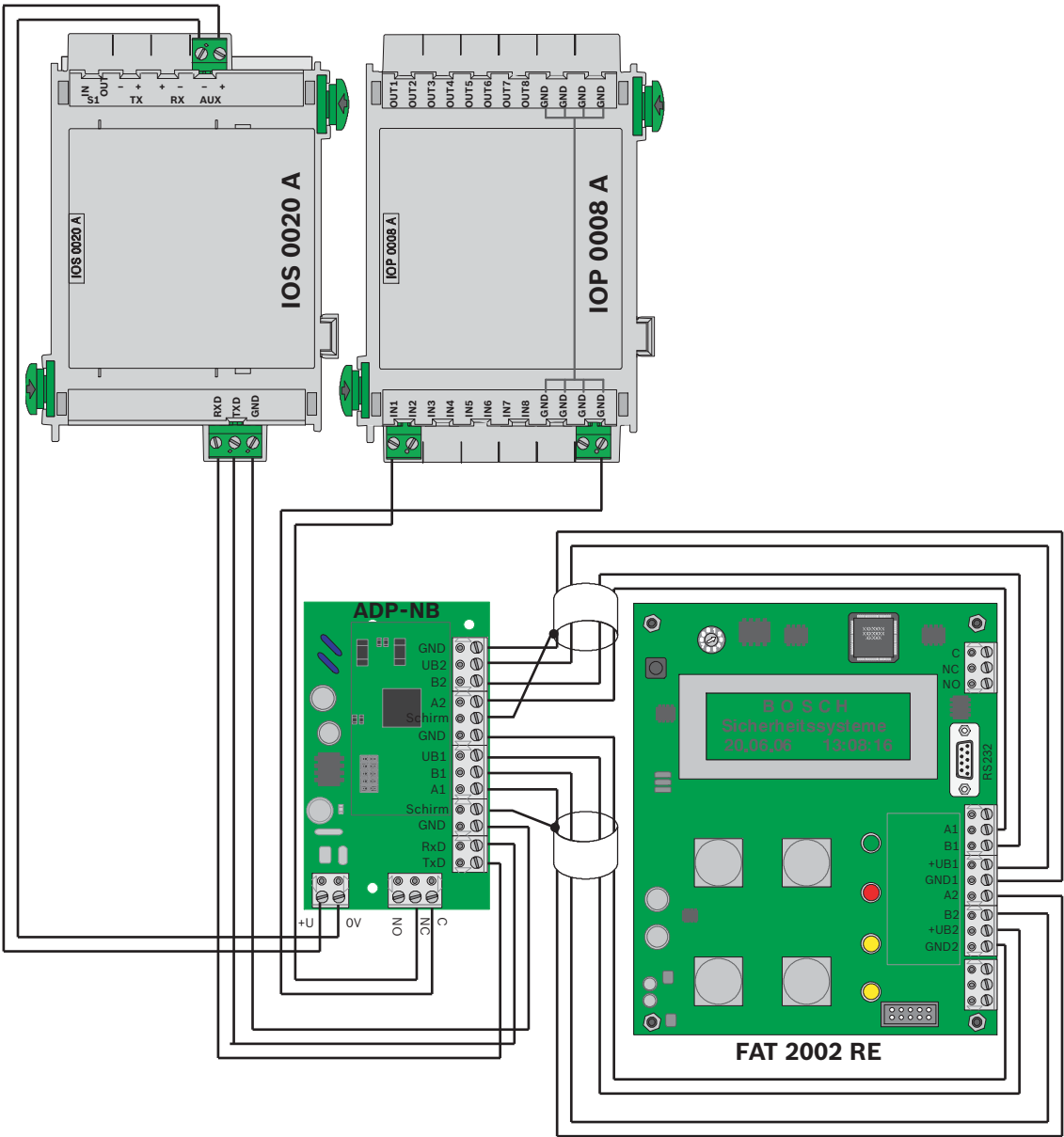


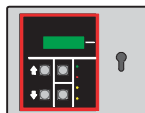
**FAT 2002 RE
ADP-NB**



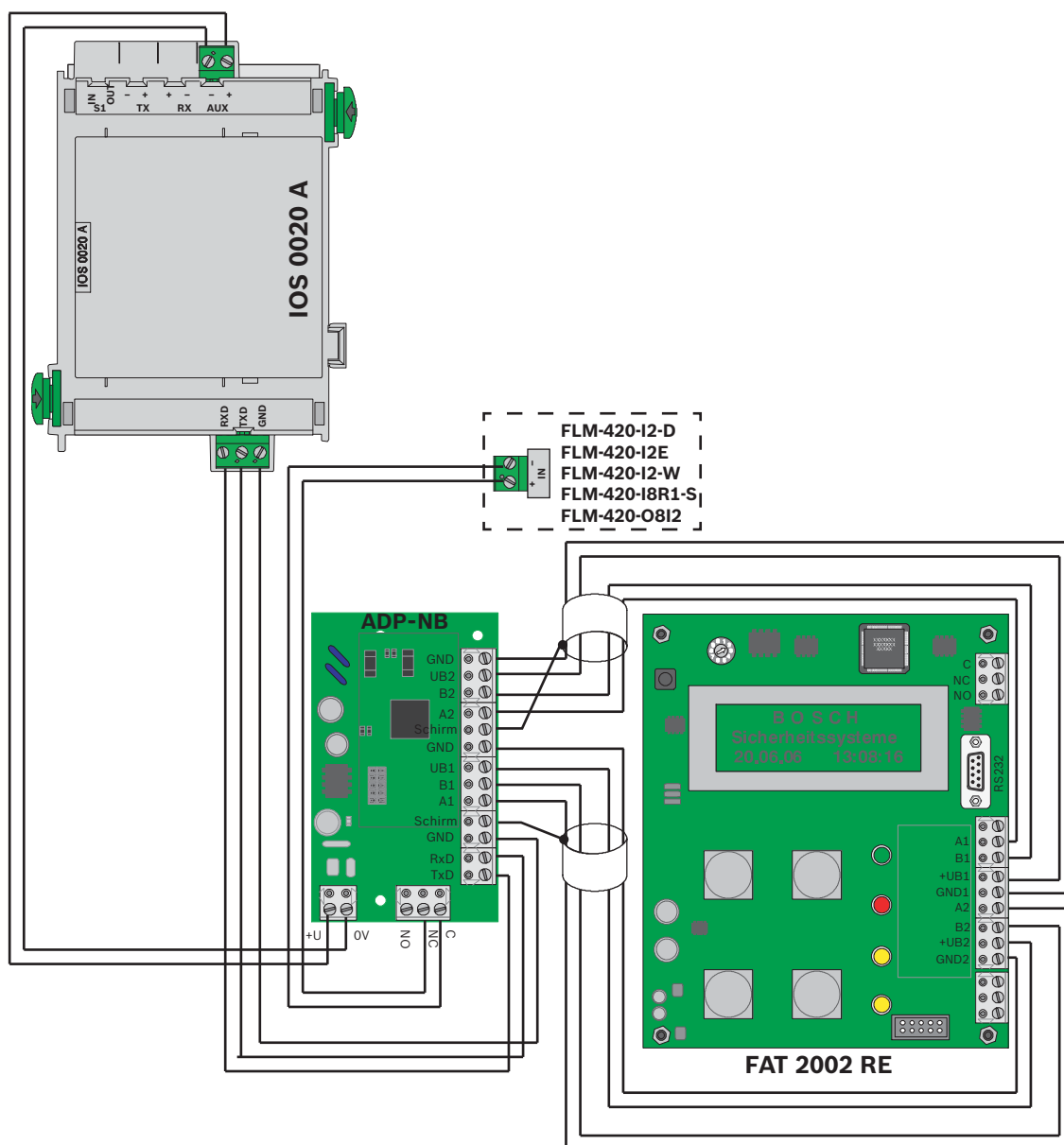


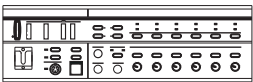
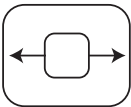
FAT 2002 RE
ADP-NB



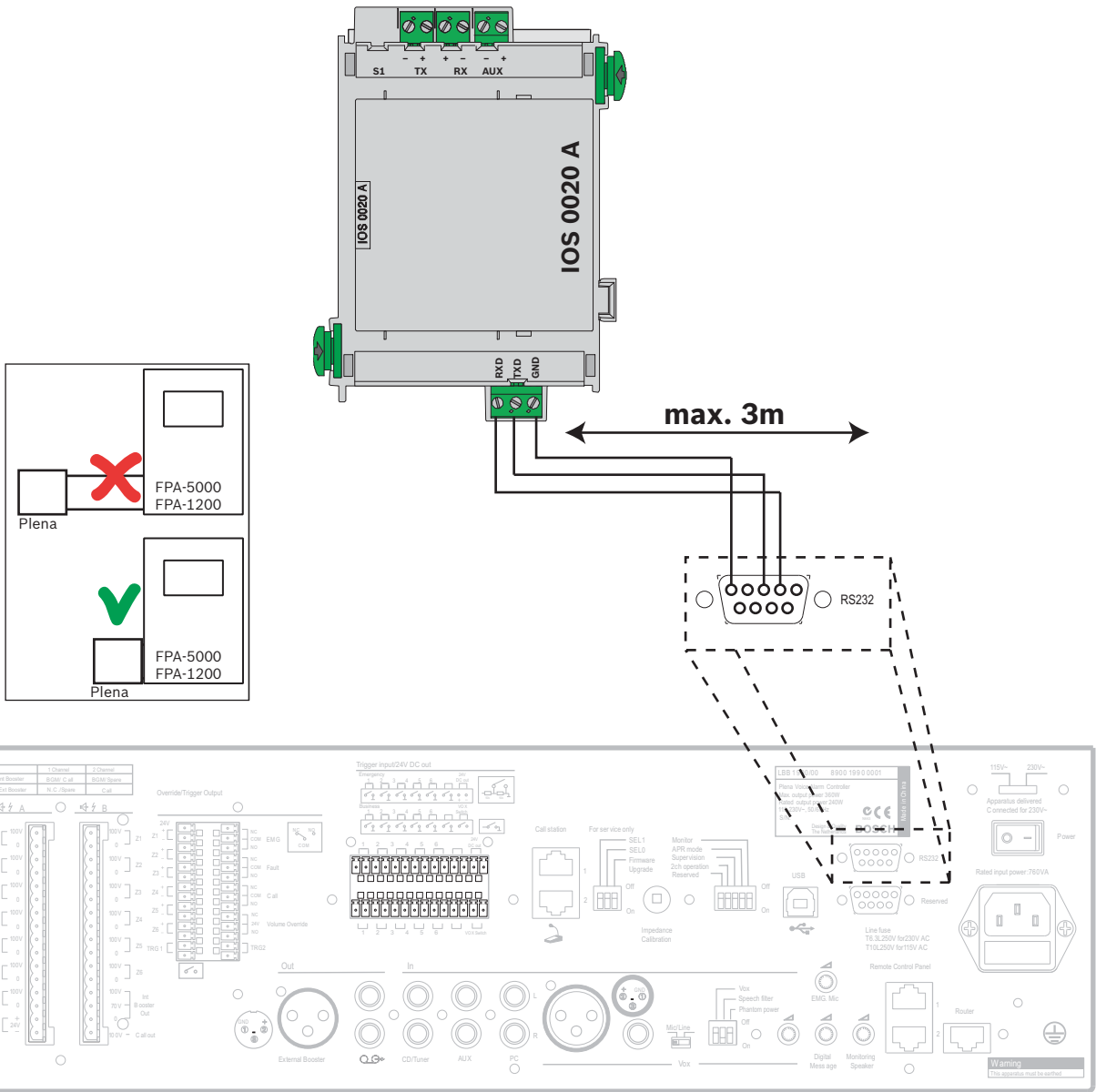


**FAT 2002 RE
ADP-NB**



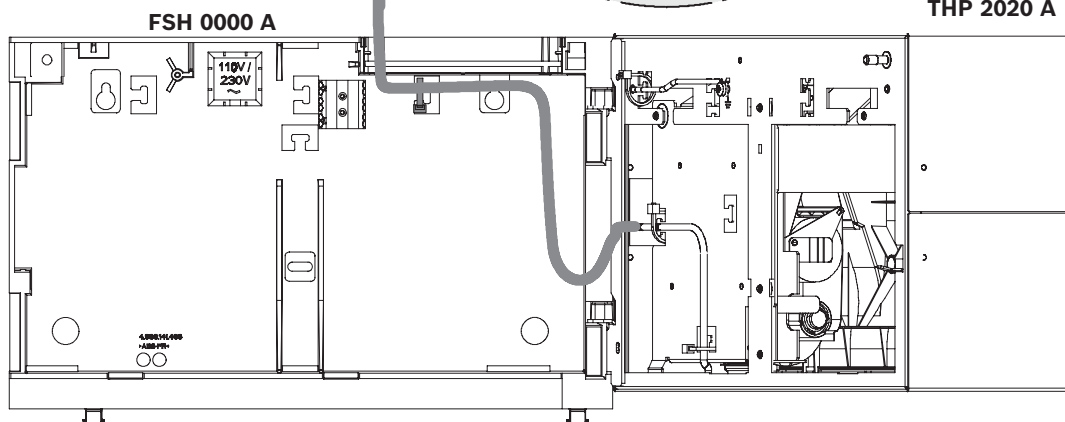
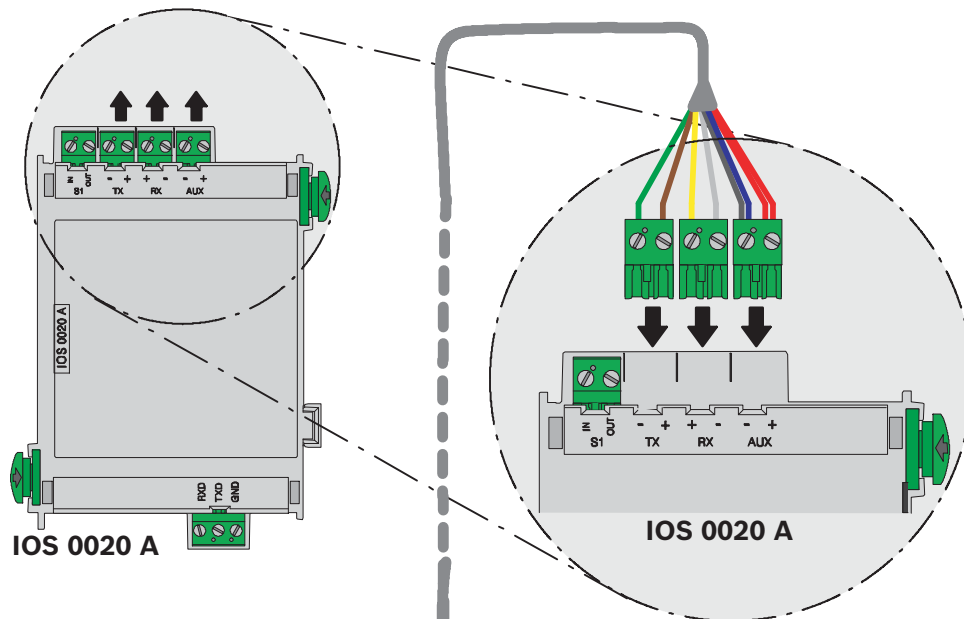
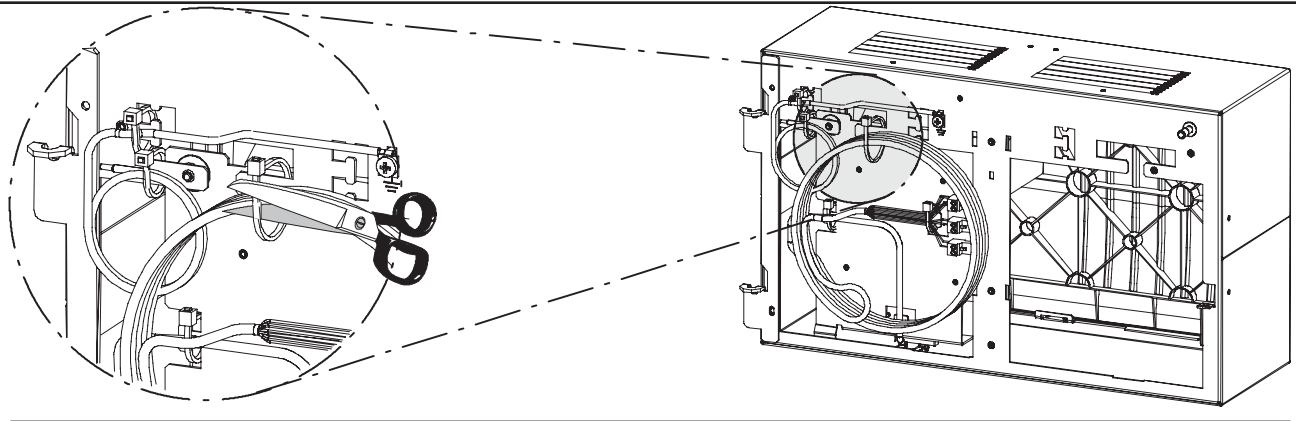


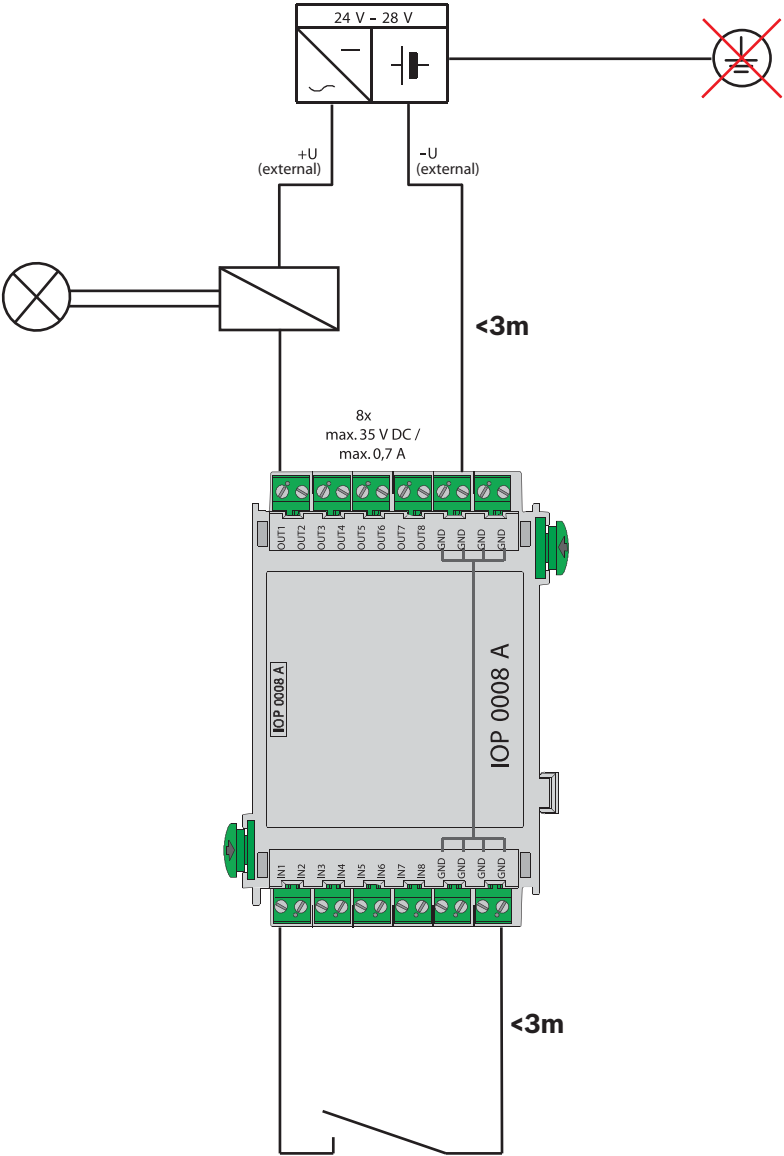
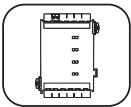
Plena





THP 2020 A





2.5 Interface Modules

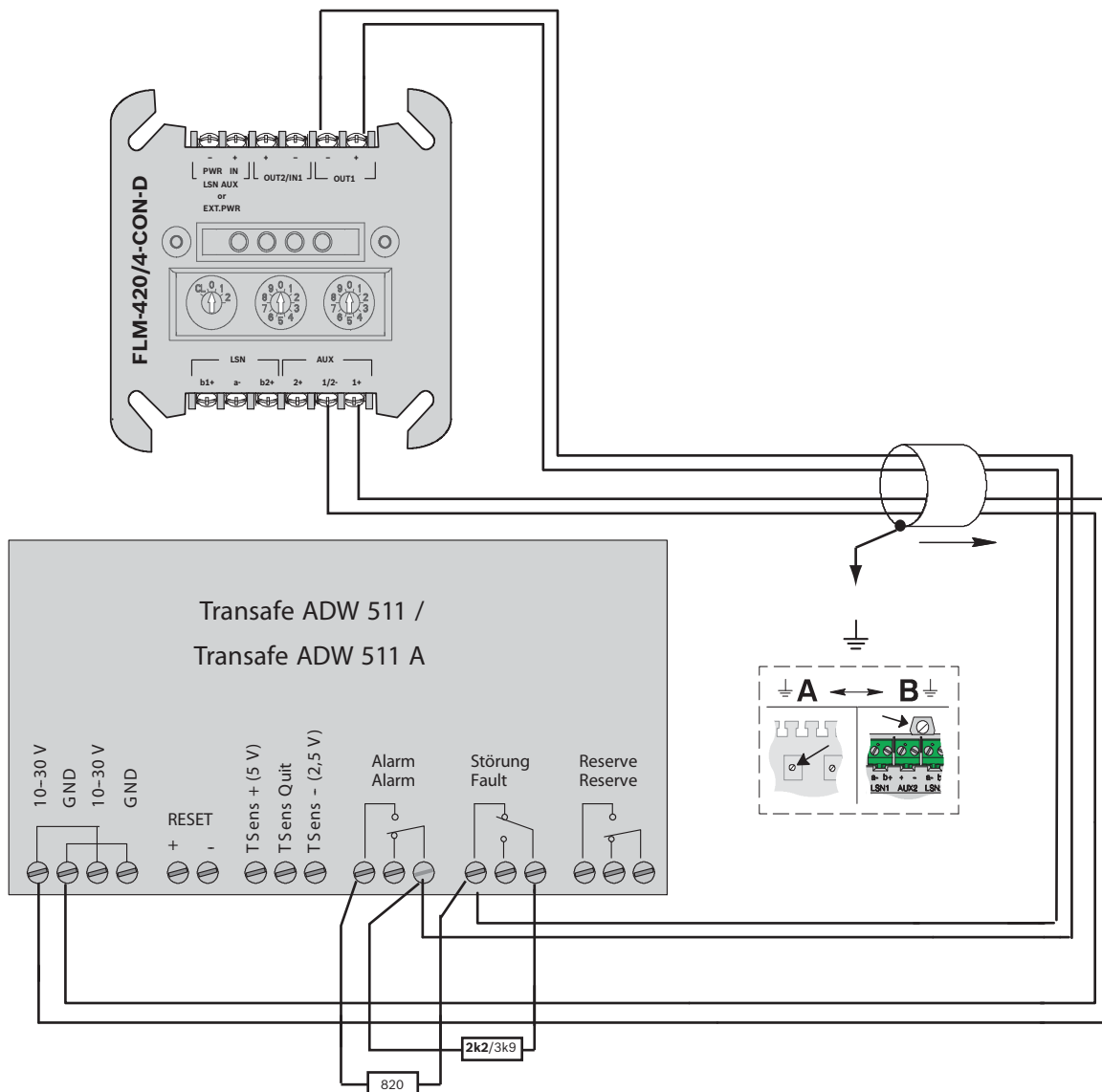
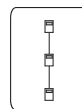


FLM-420/4-CON-D/S	158
FLM-420-NAC-D/S	177
FLM-420-RLE-S	187
FLM-420-RLV1-E-	190
FLM-420-RLV8-S	192

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

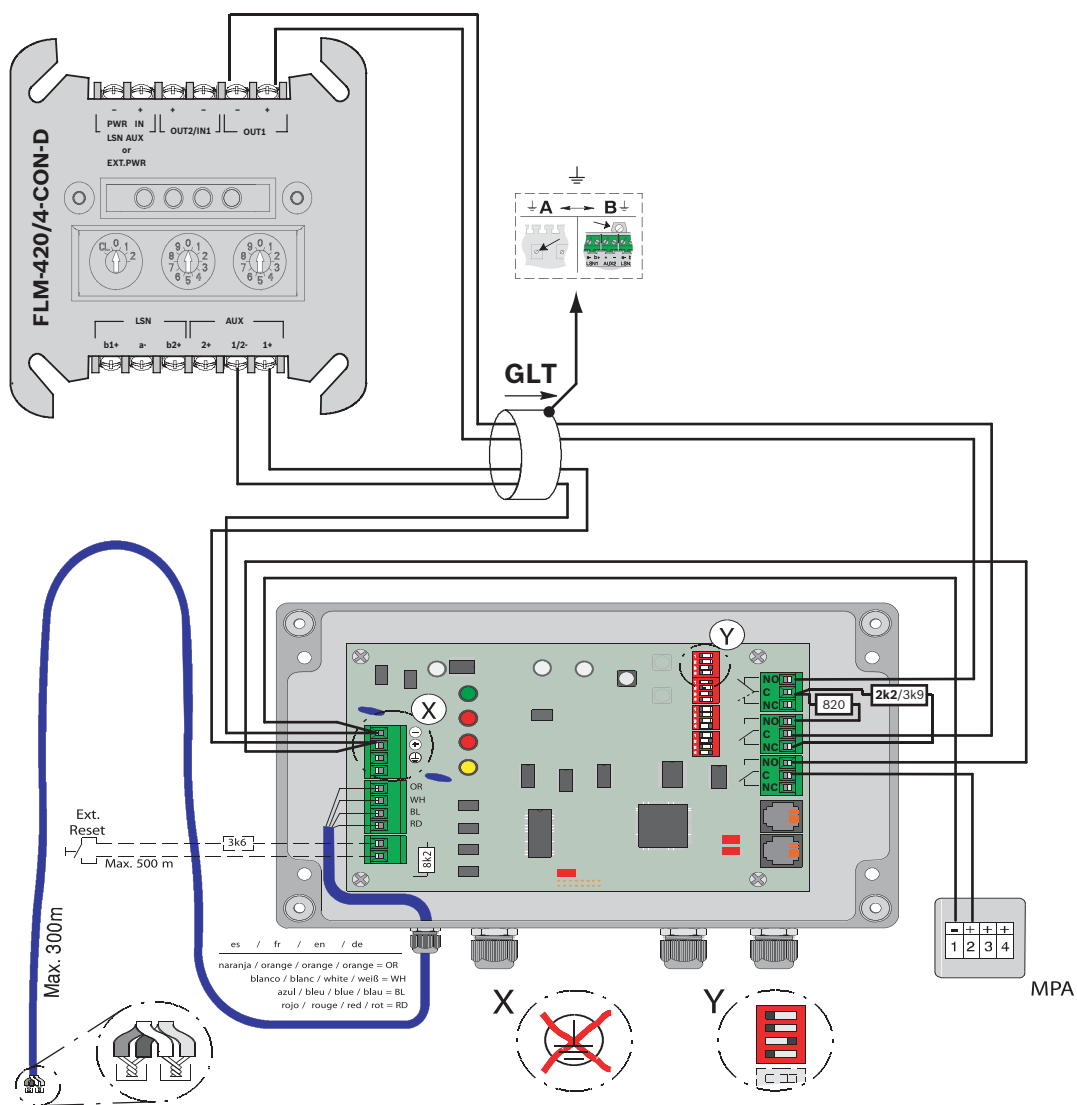
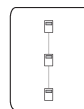


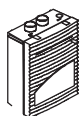
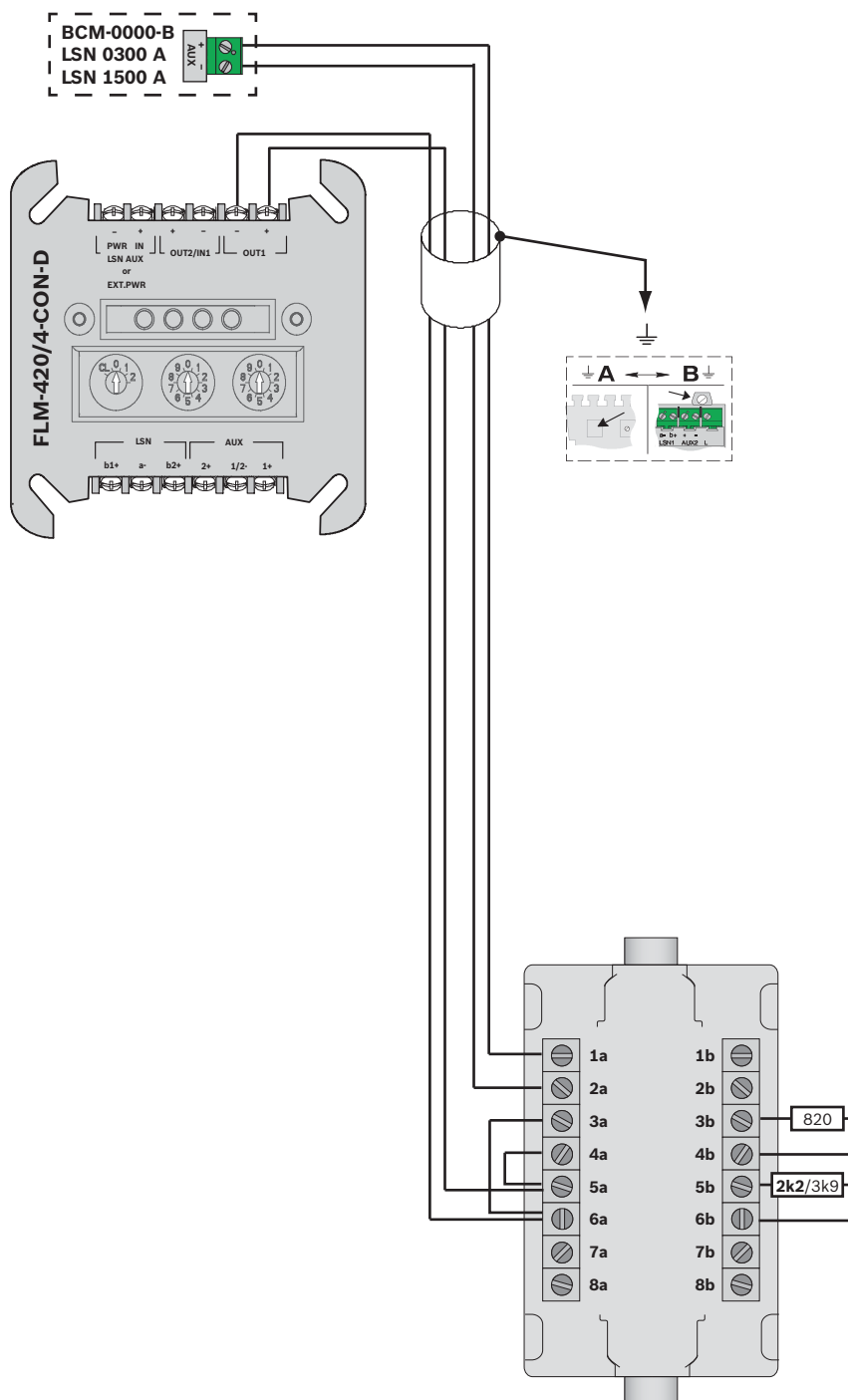
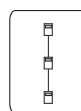
Transafe ADW 511
Transafe ADW 511A

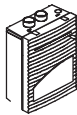




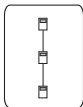
FCS-LWM-1



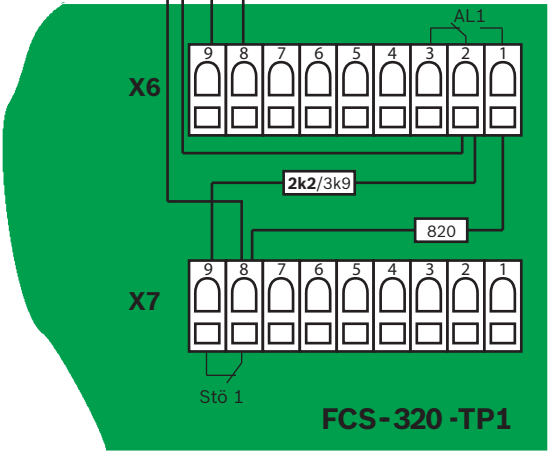
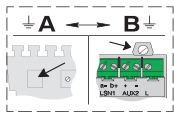
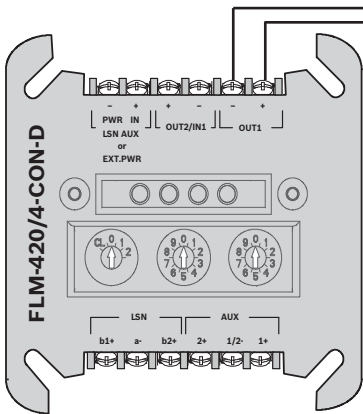
**FCS-320-TM Series**

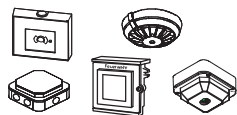


FCS-320-TP Series

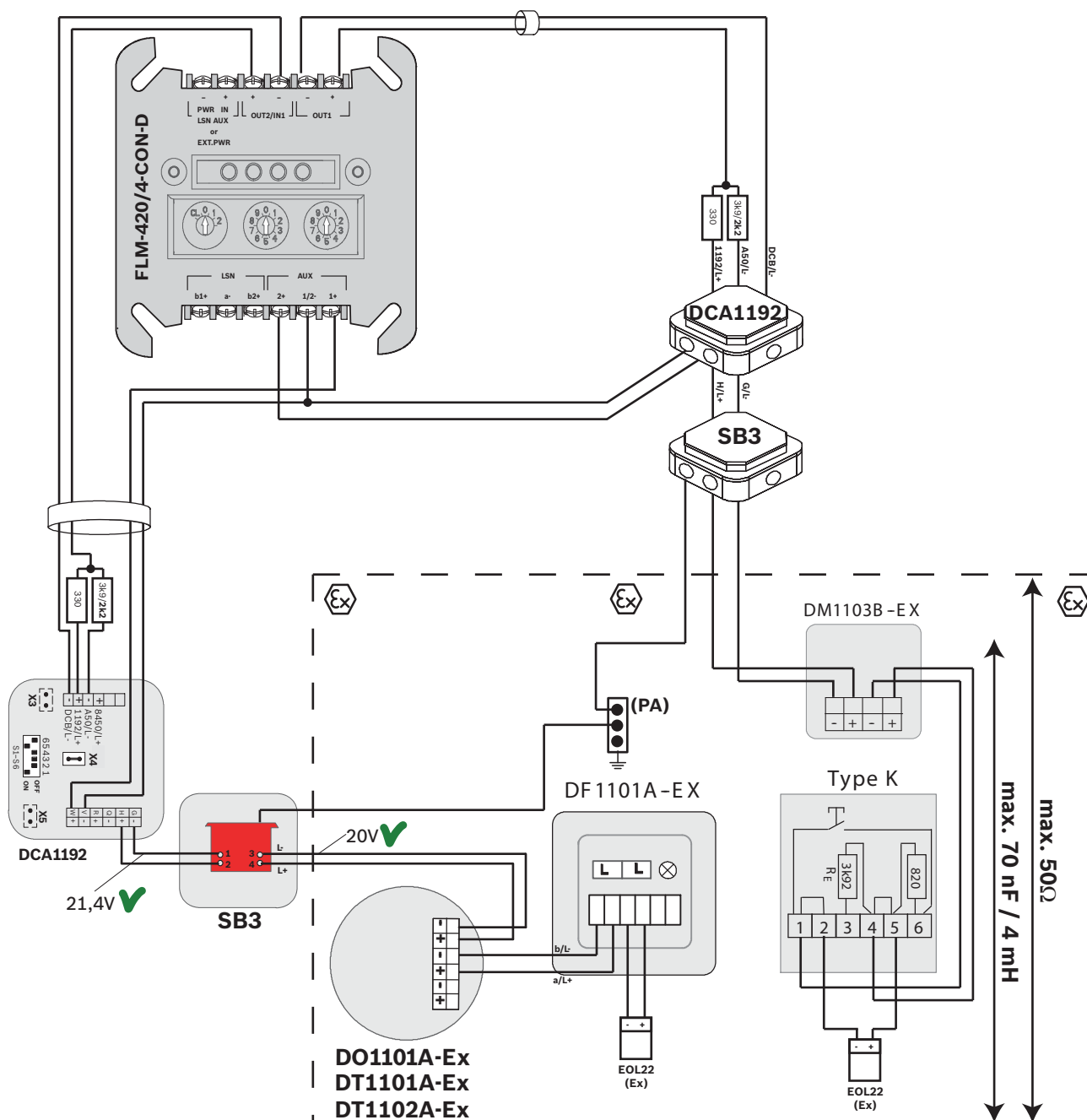
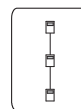


BCM-0000-B
LSN 0300 A
LSN 1500 A



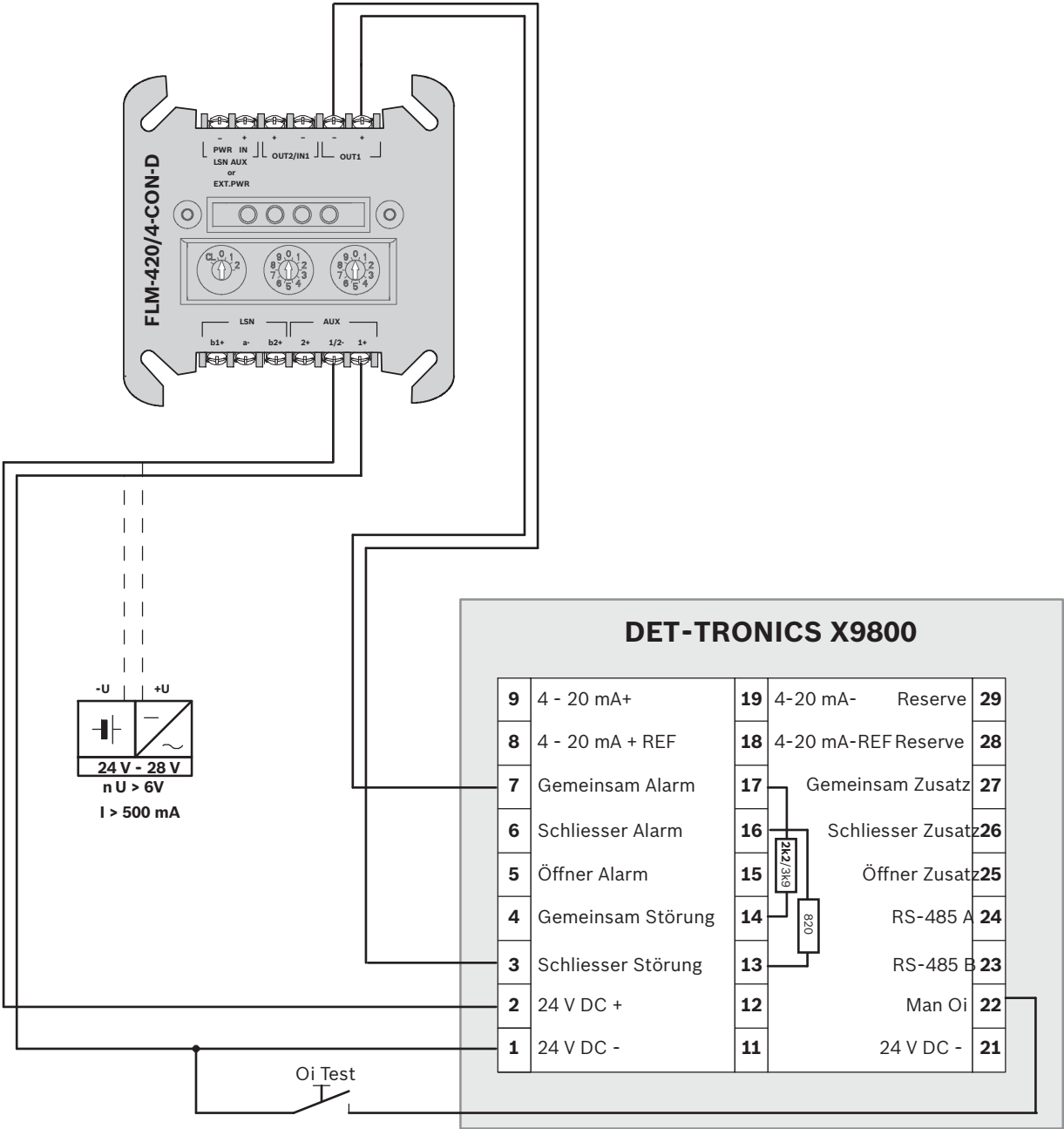
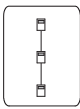


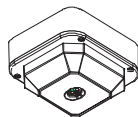
**DCA1192, SB3
DM 1103B-X
DO1101A-Ex
DT1101A-Ex,
DT1102A-Ex
DF1101-Ex, Typ K**



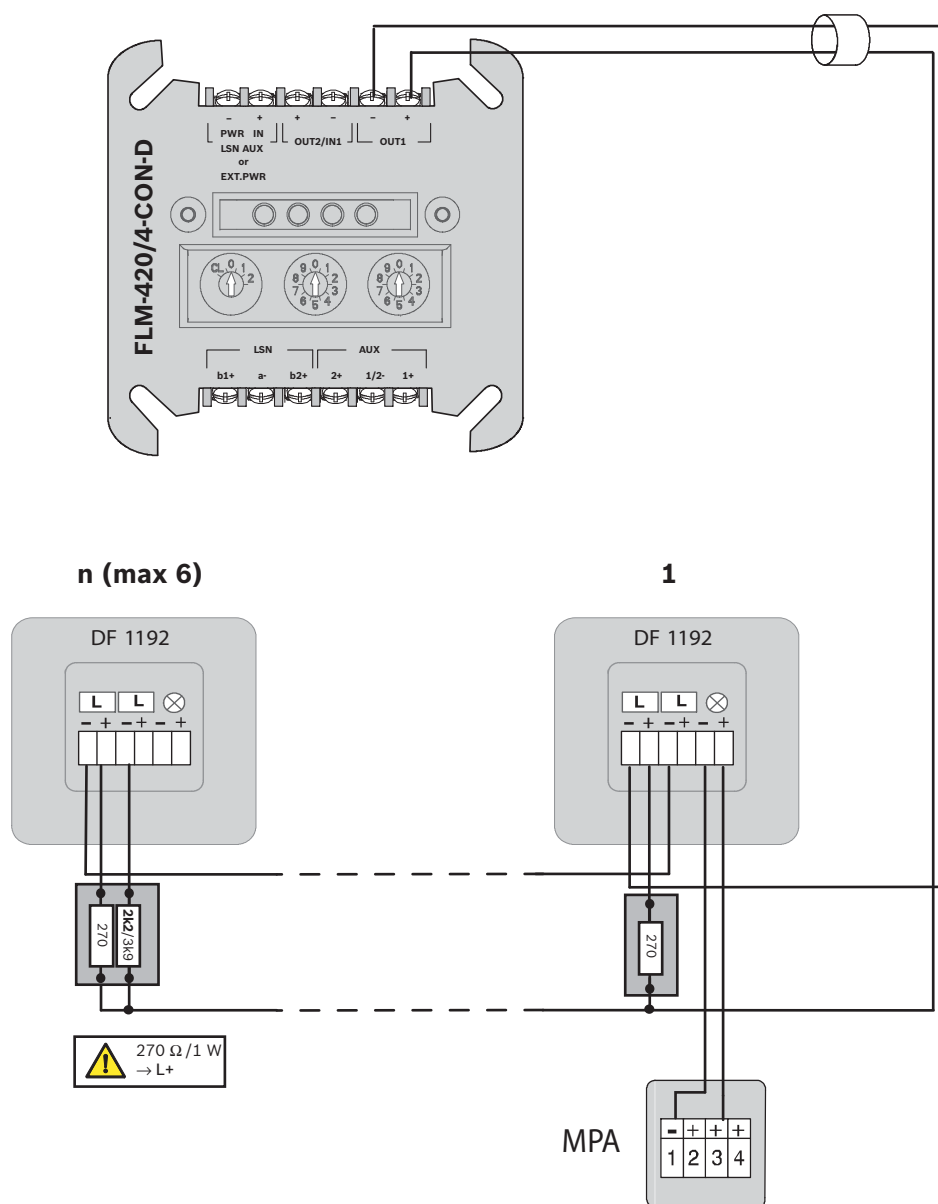
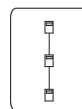


DET-TRONICS X9800



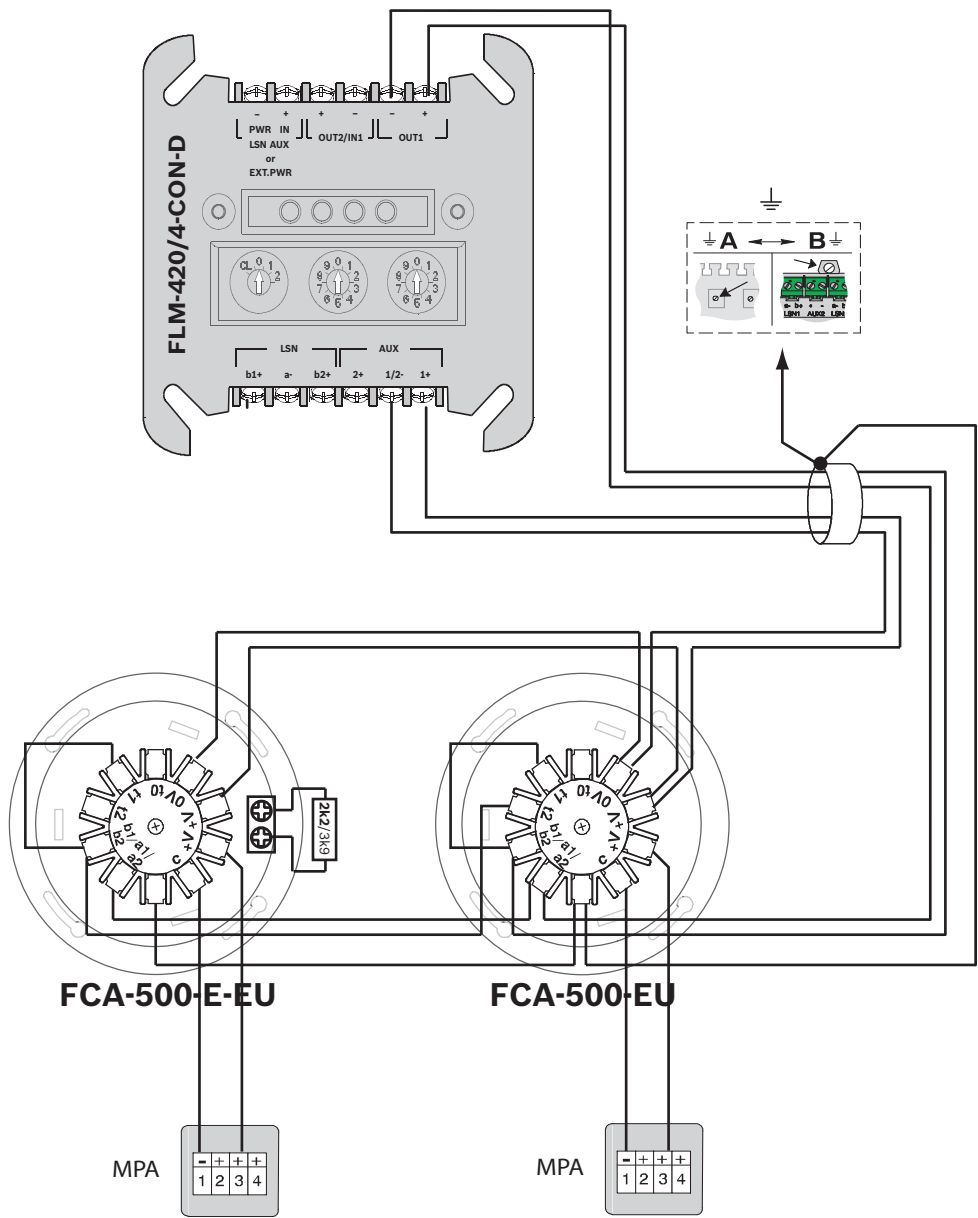
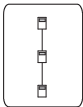


DF 1192



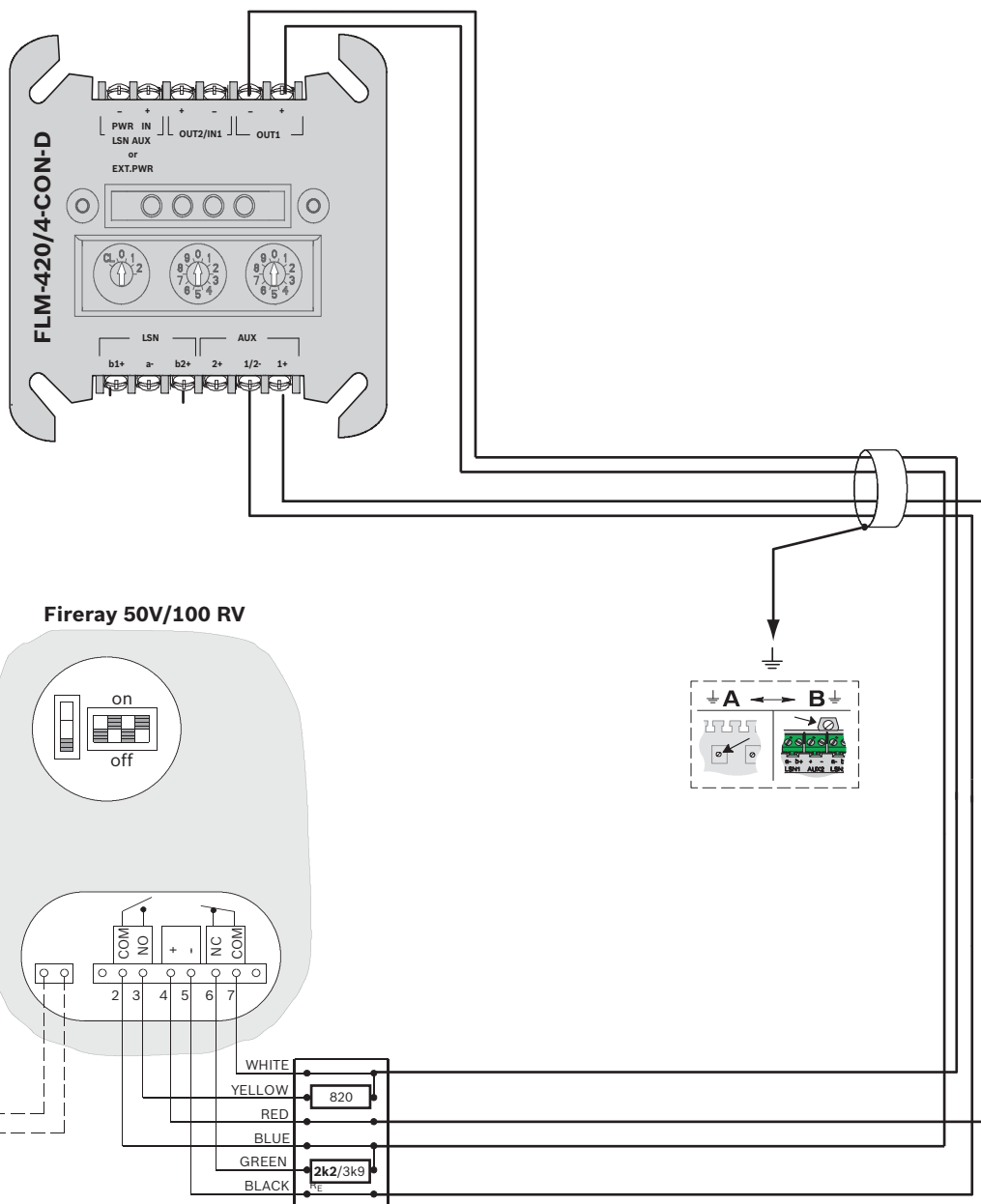
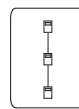


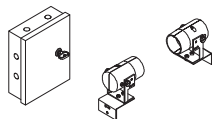
FCA-500



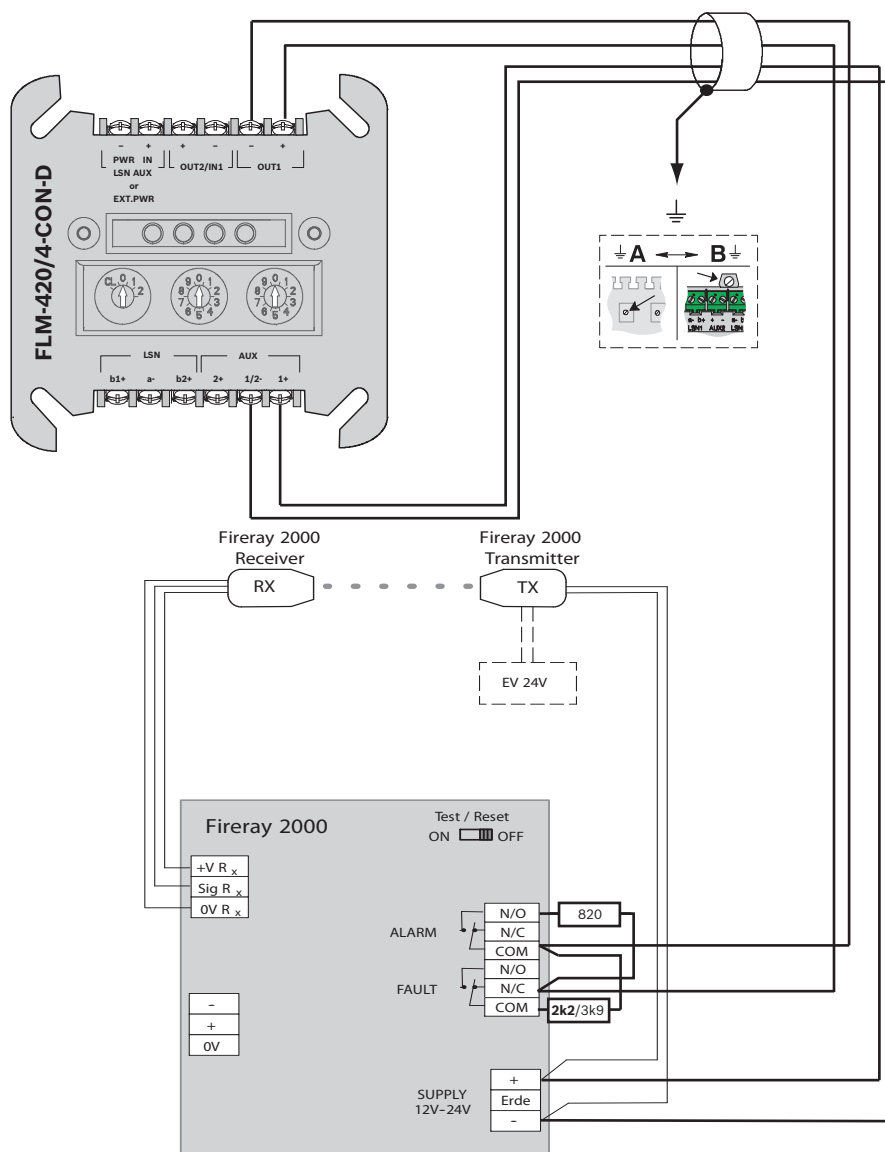
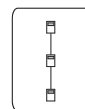


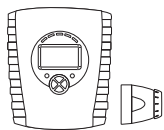
**Fireray 50RV
Fireray 100RV**



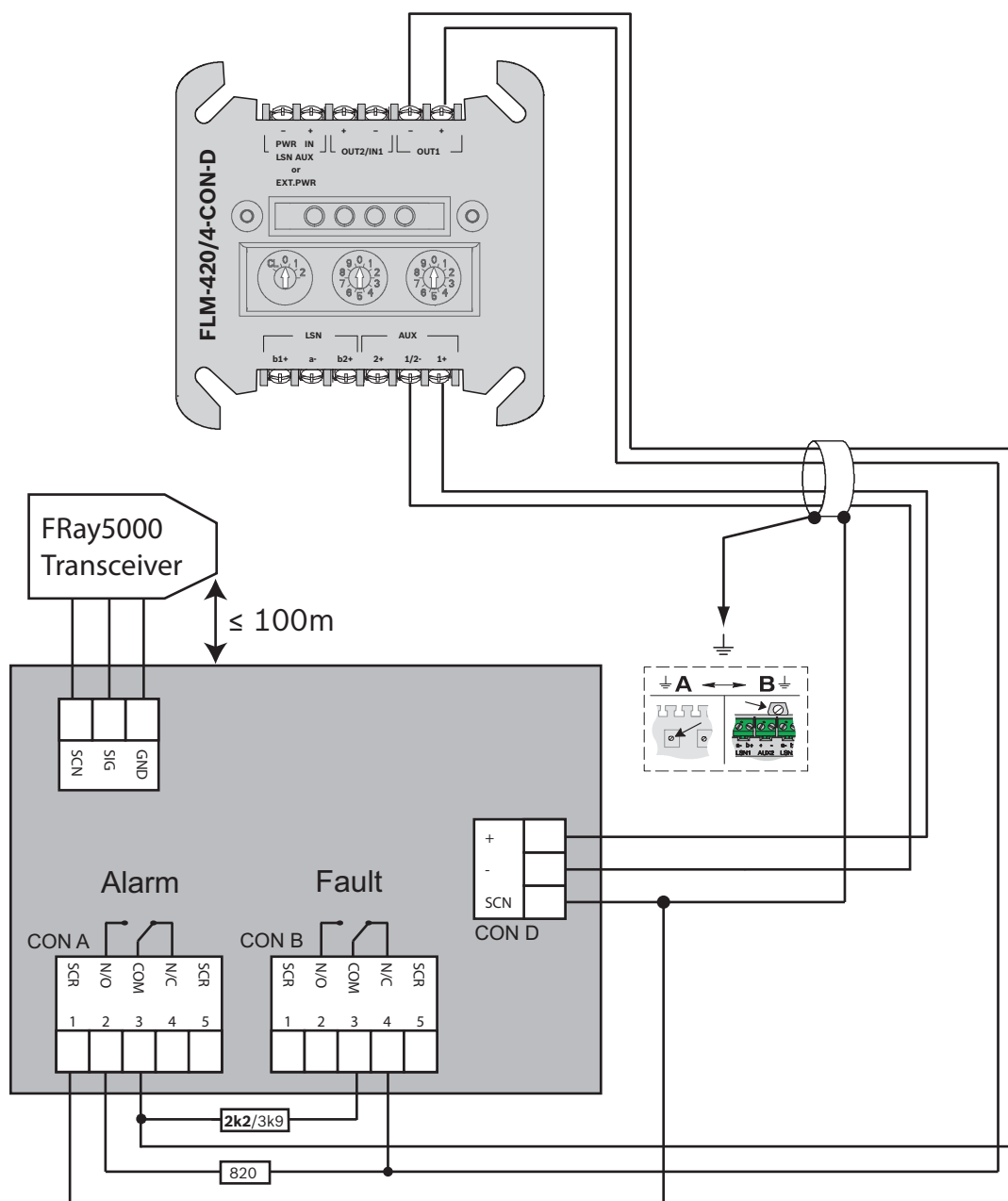
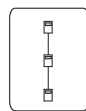


Fireray 2000



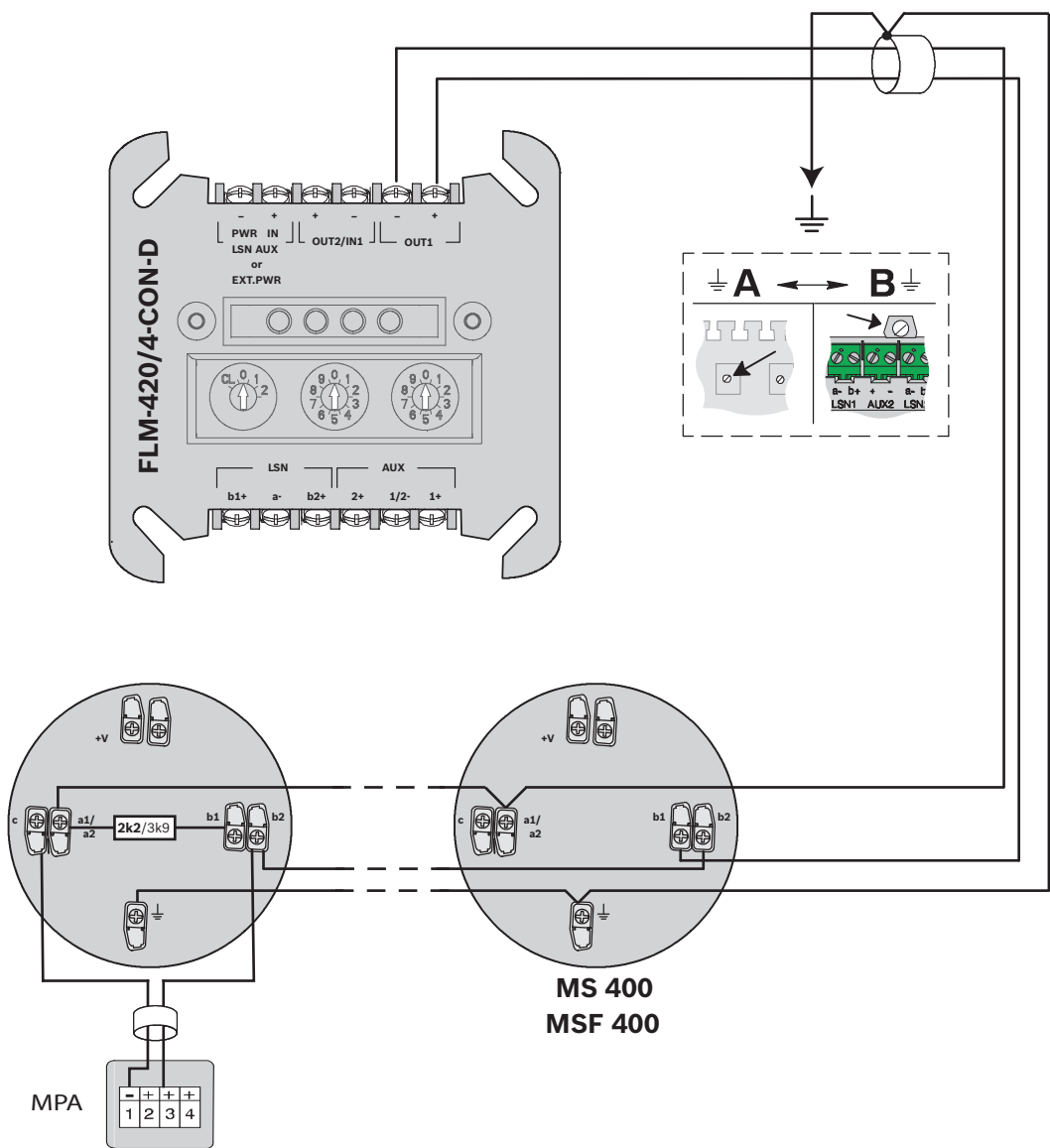
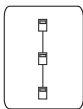


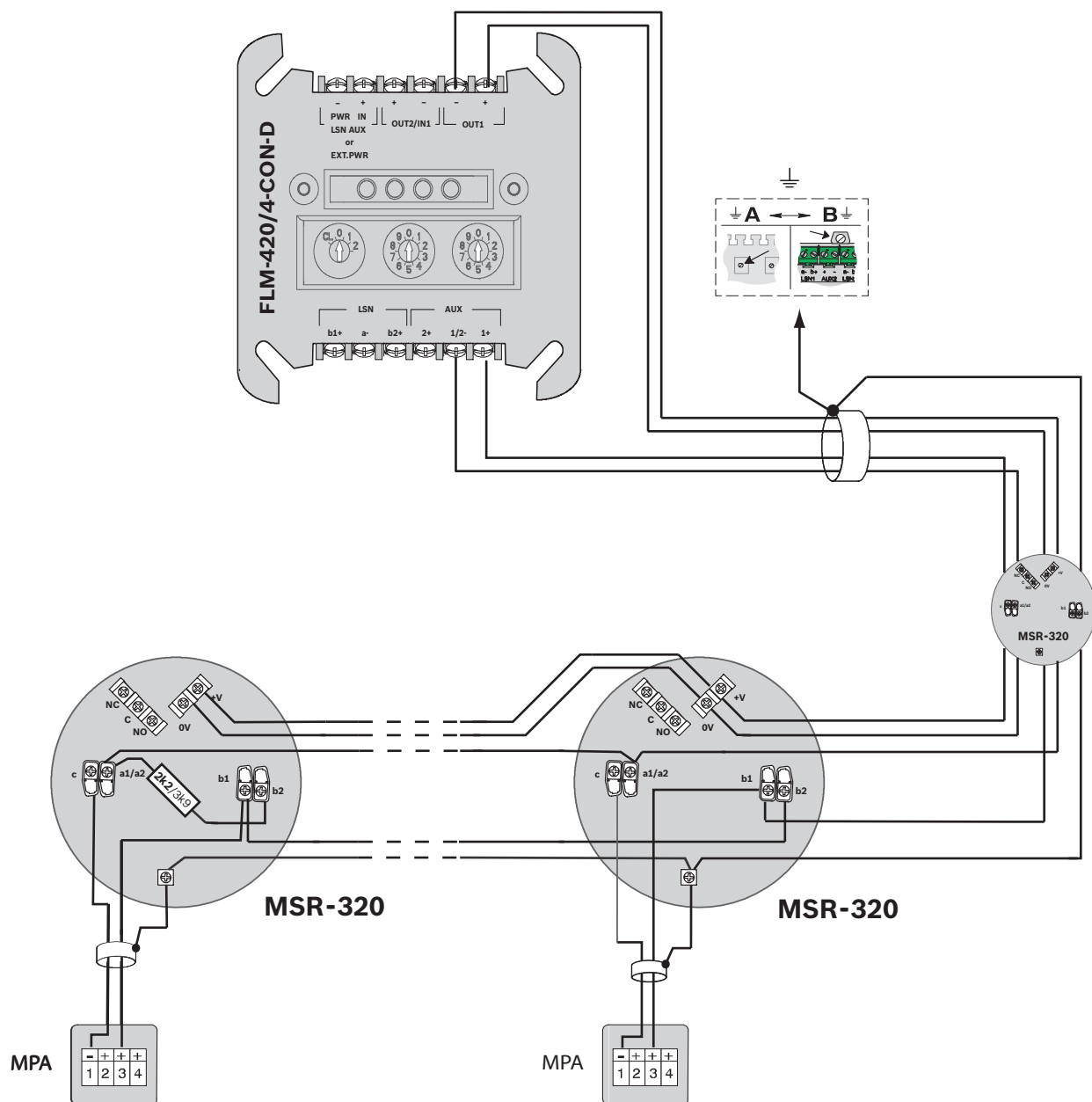
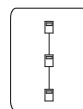
FRay5000-series

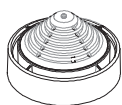
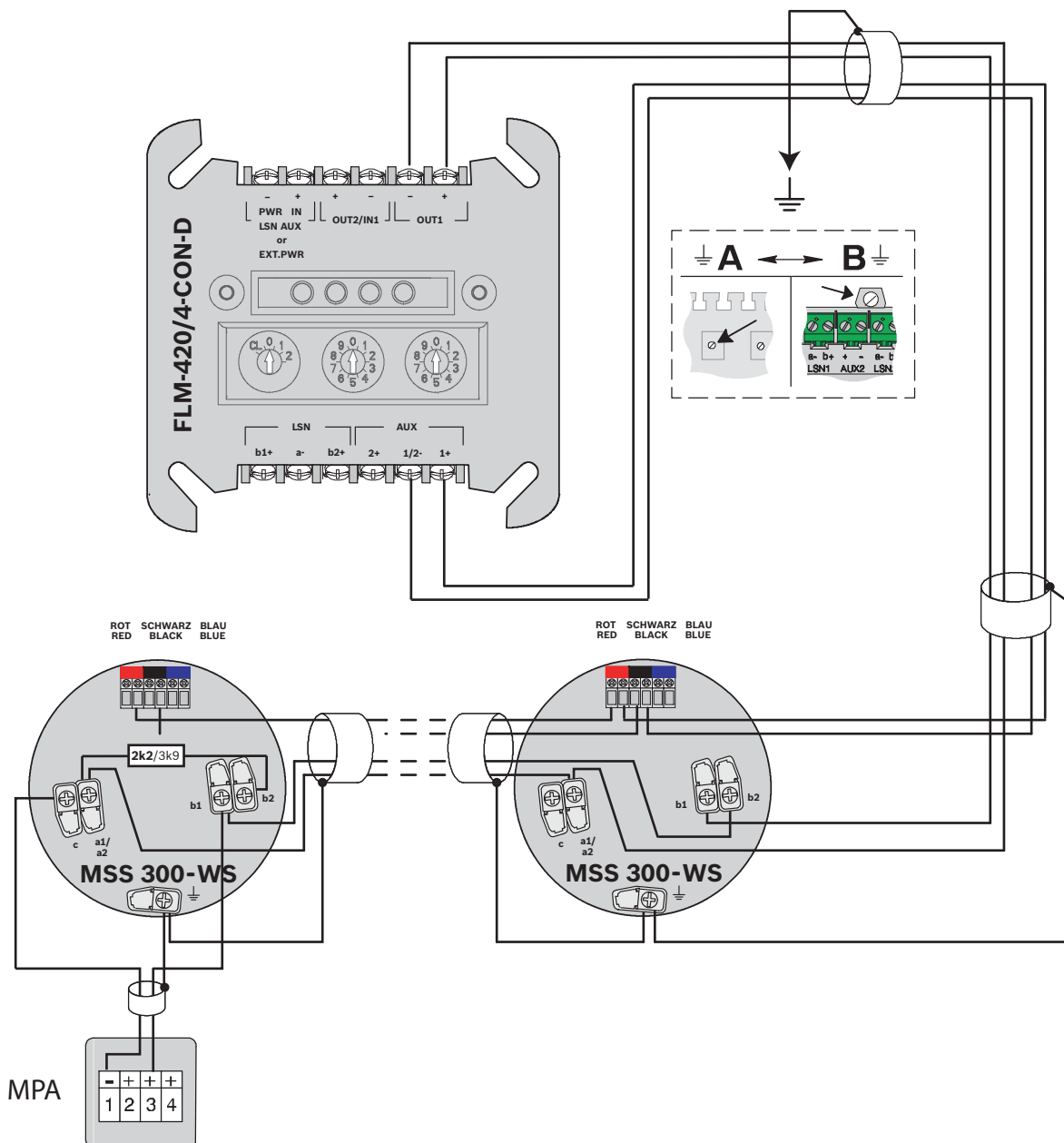
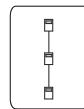


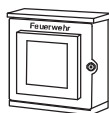
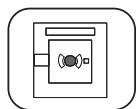
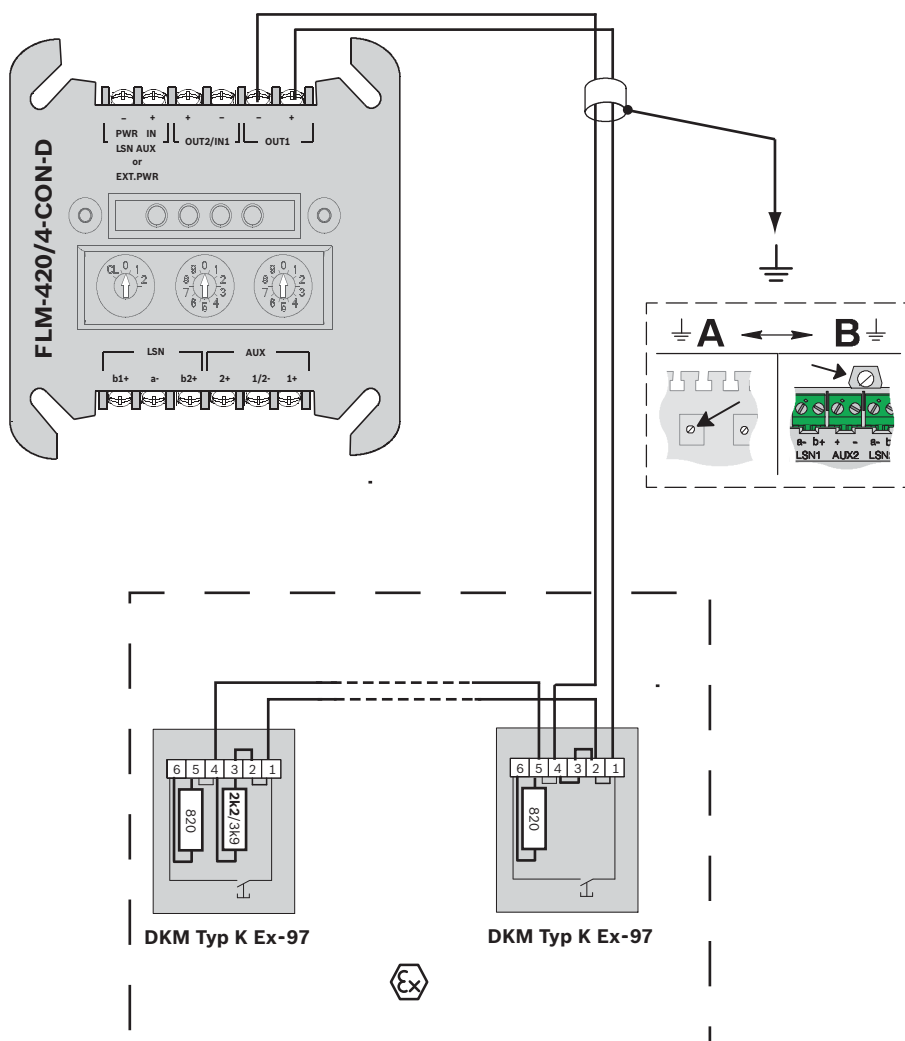
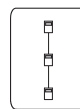


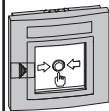
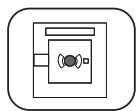
MS 400
MSF 400



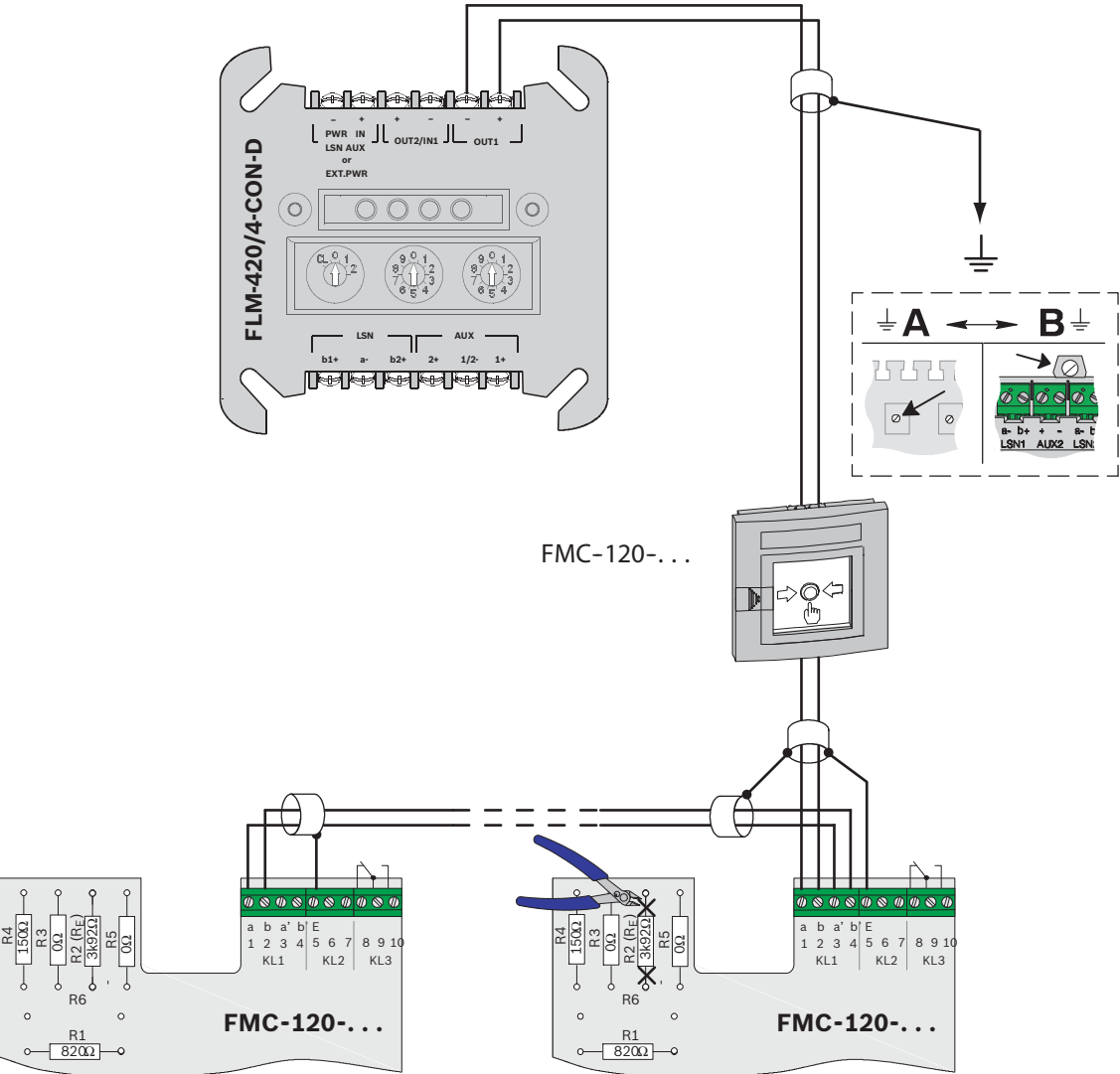
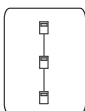
**MSR 320**

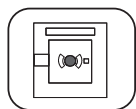
**MSS 300-WS**

**DKM Typ K Ex-97**

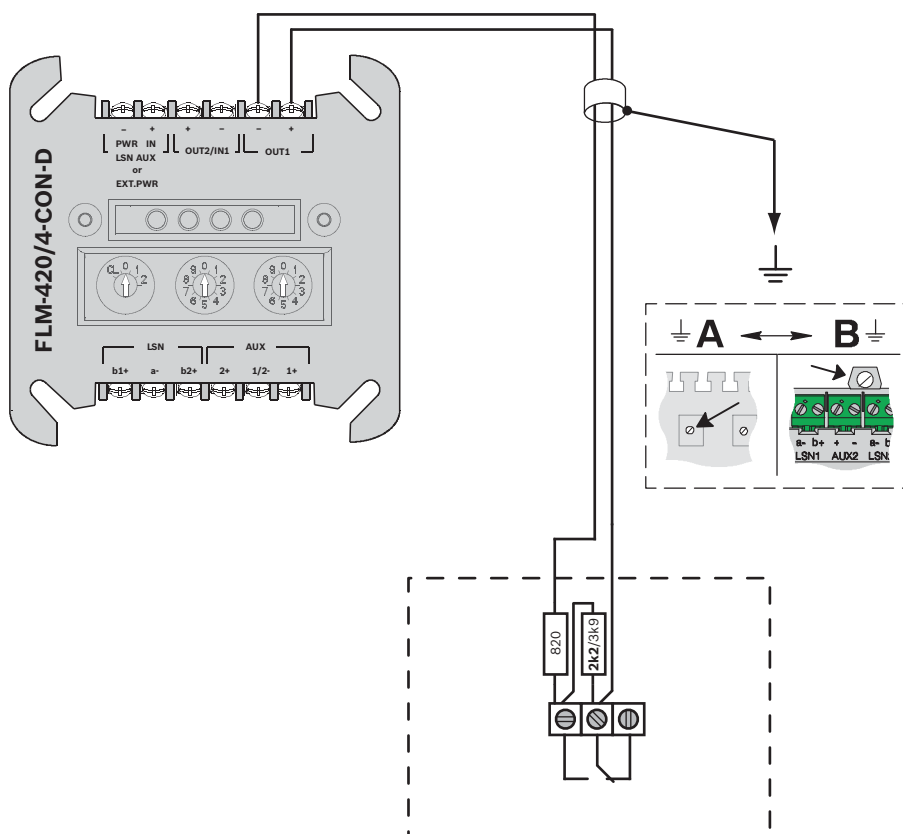
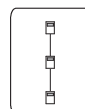


FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



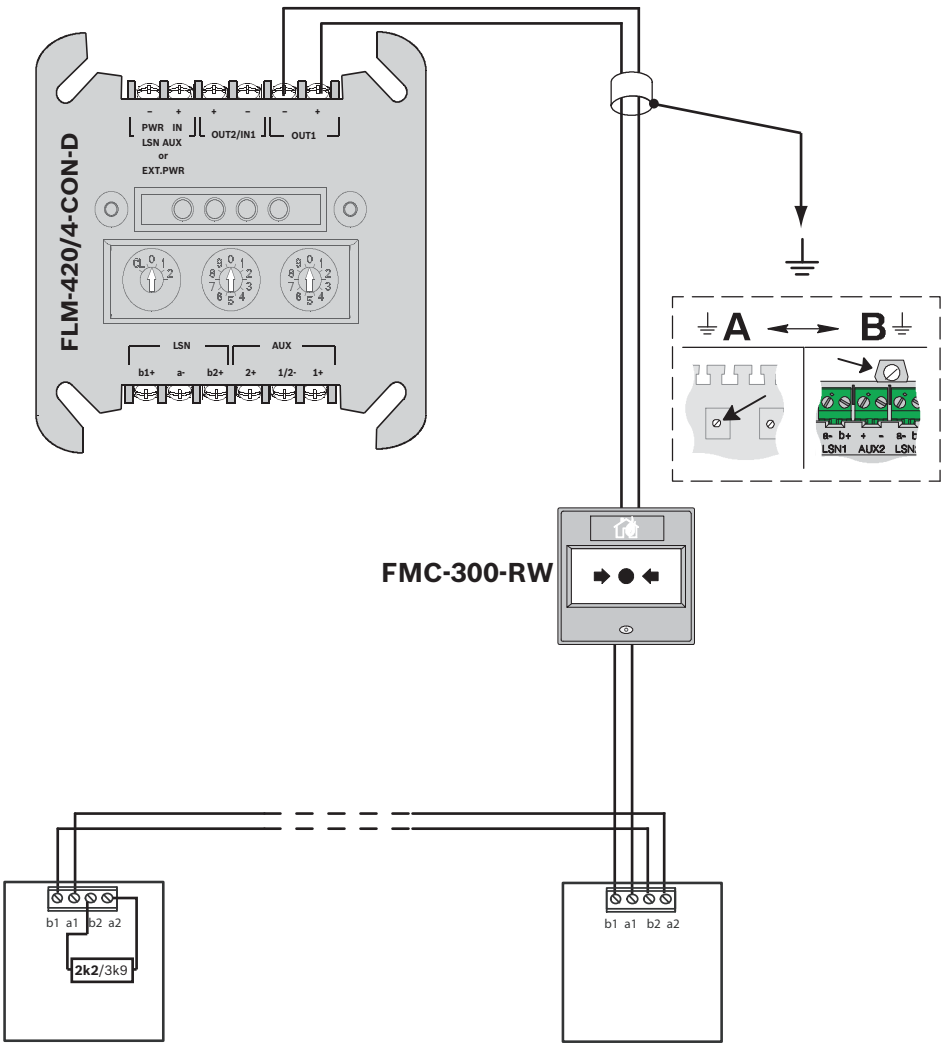
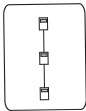


— / — NO

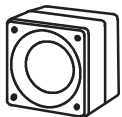




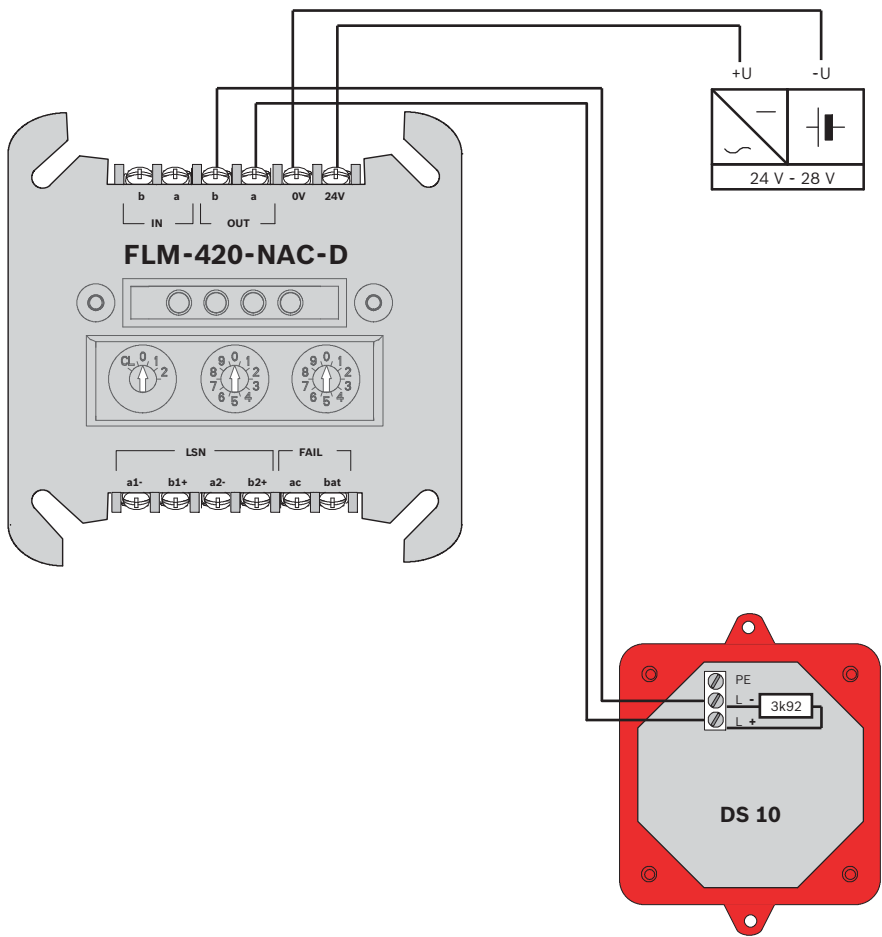
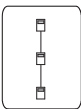
FMC-300-RW

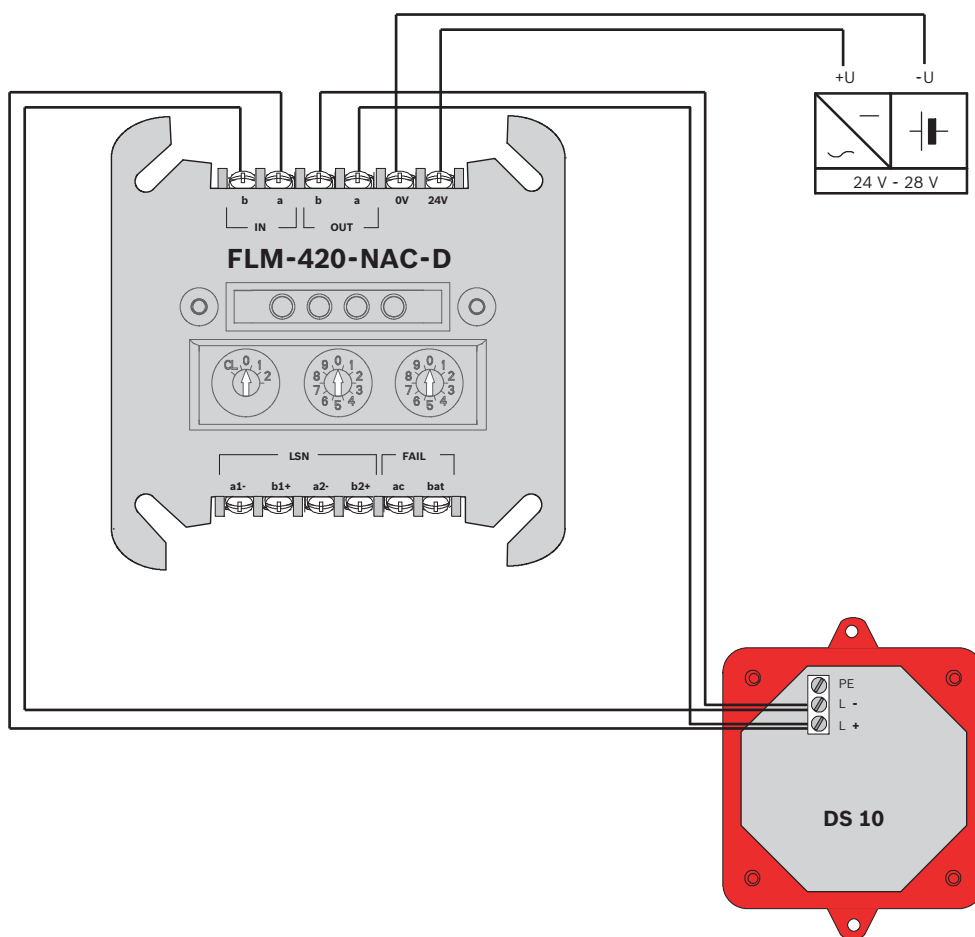
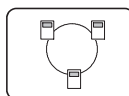


2.5.2 FLM-420-NAC-D/S



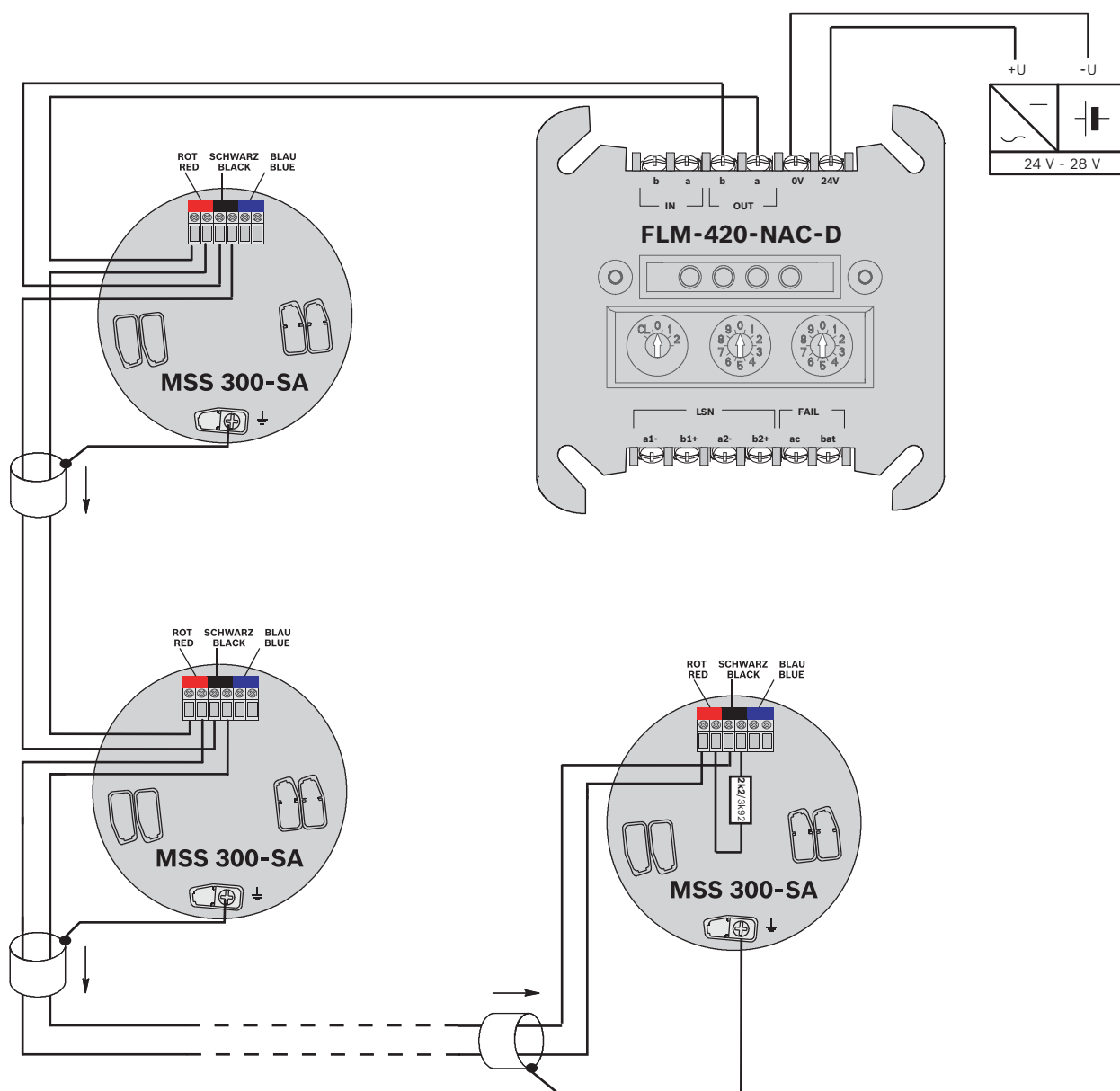
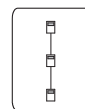
DS 10

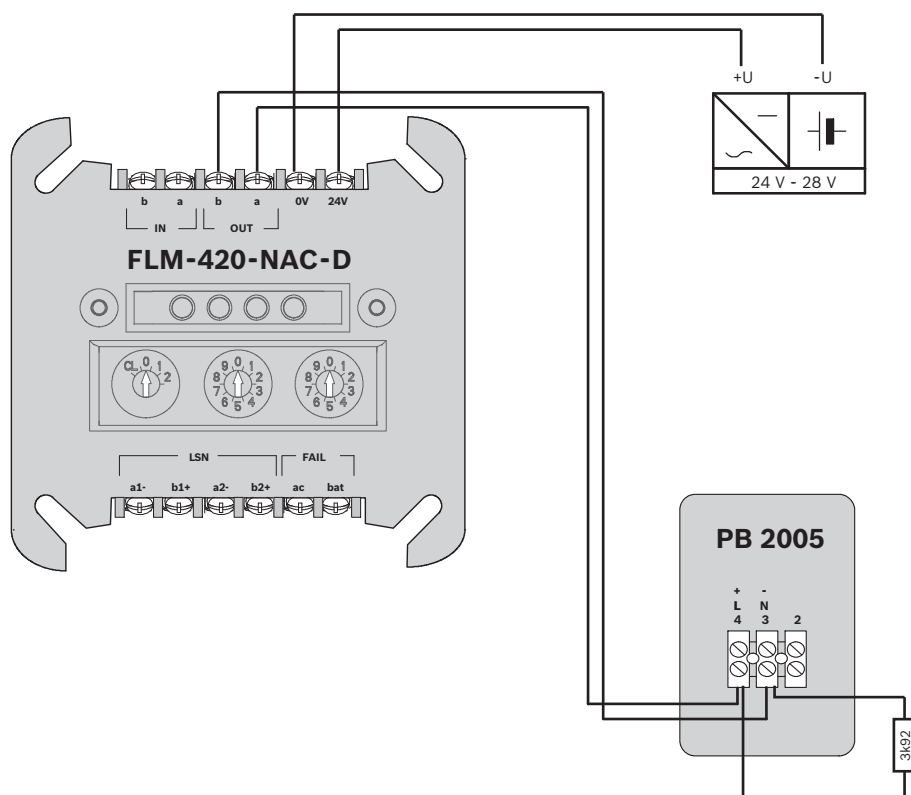
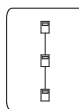


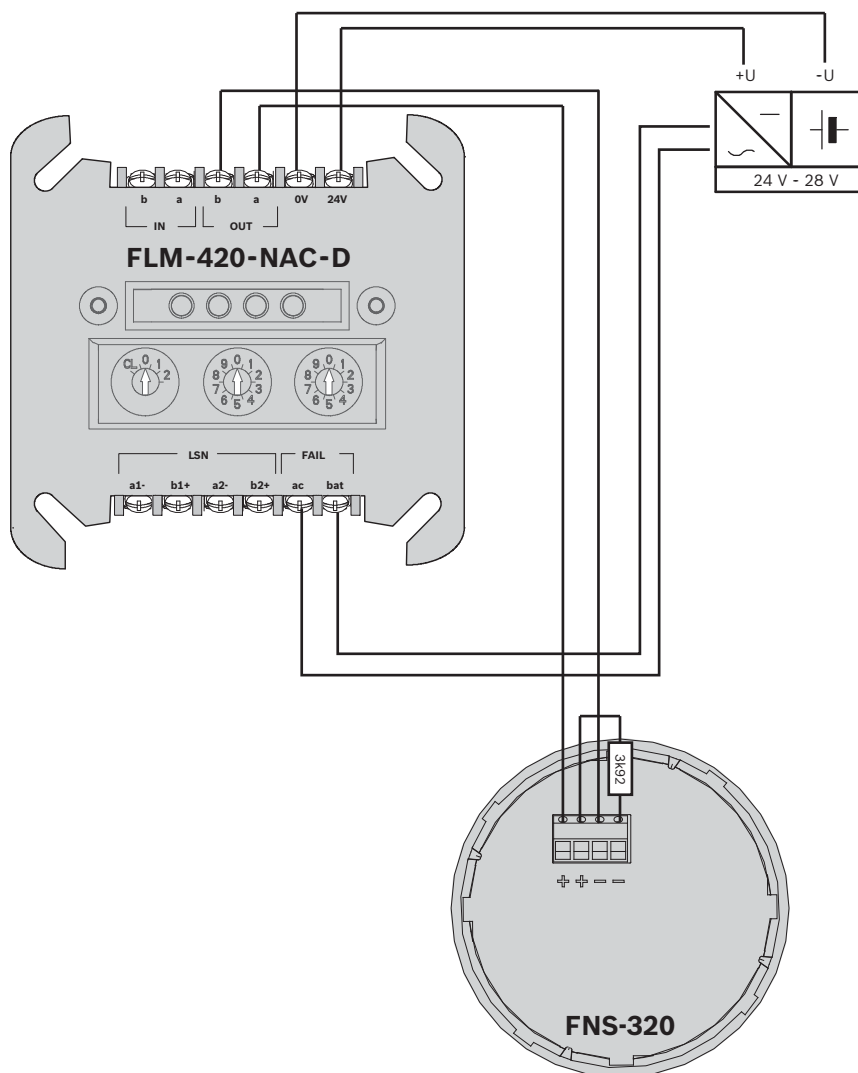
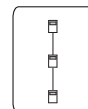
**DS 10**

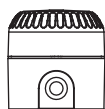
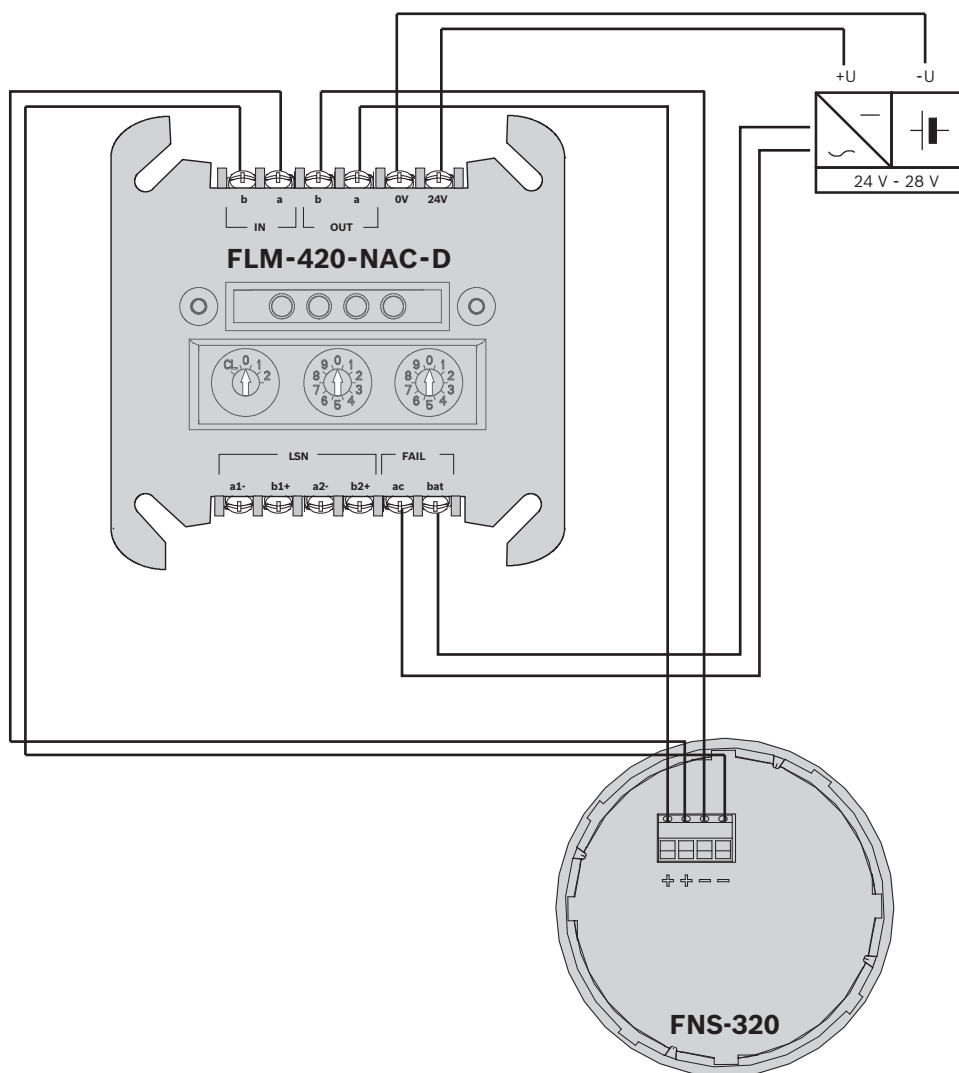
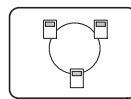


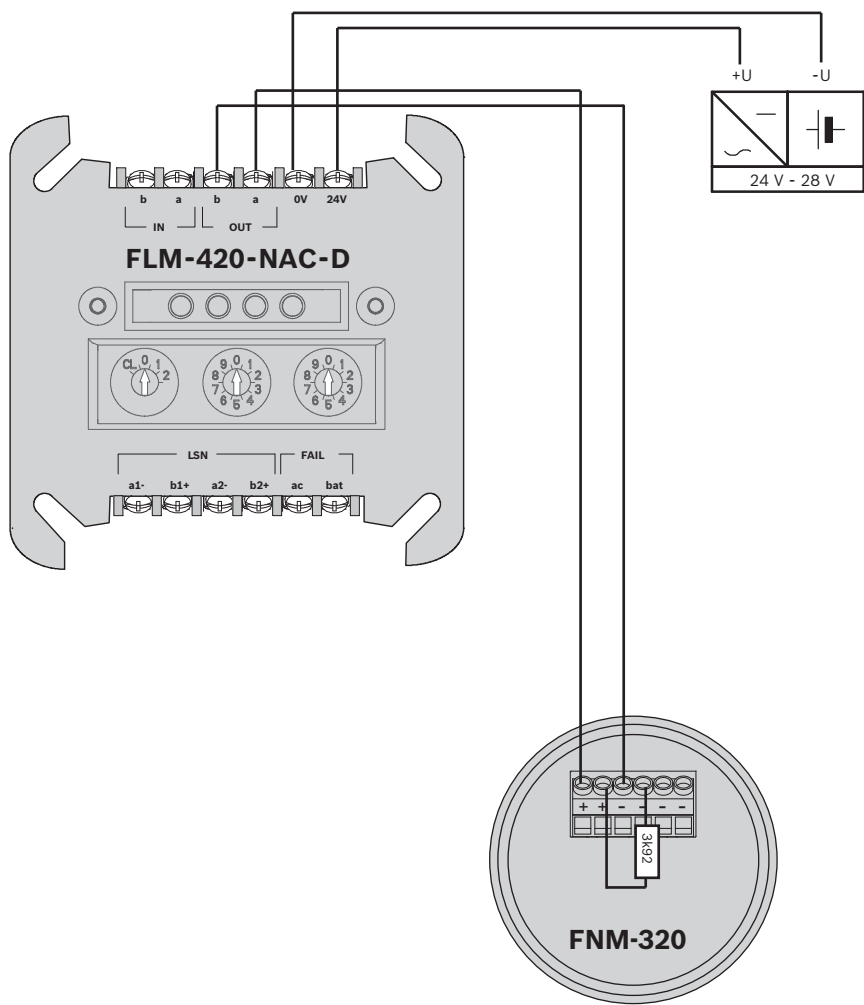
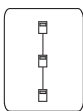
MSS 300-SA

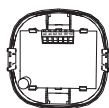
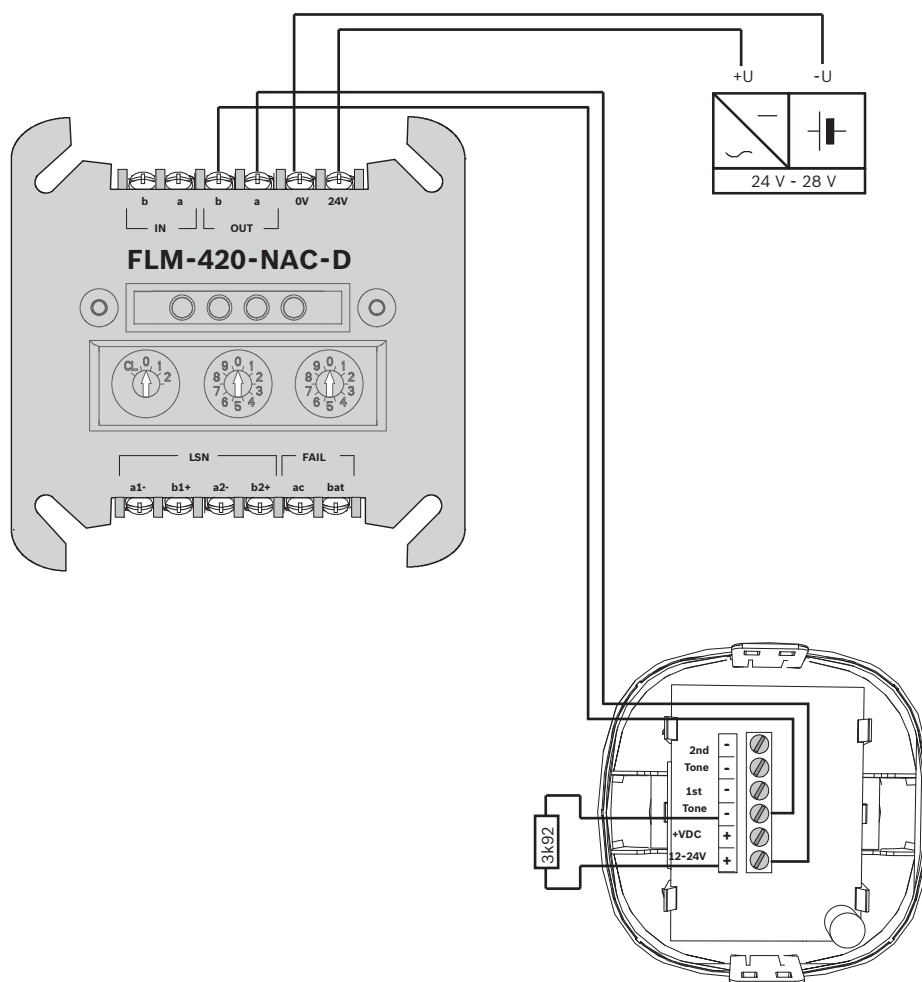
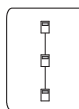


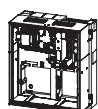
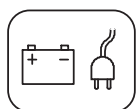
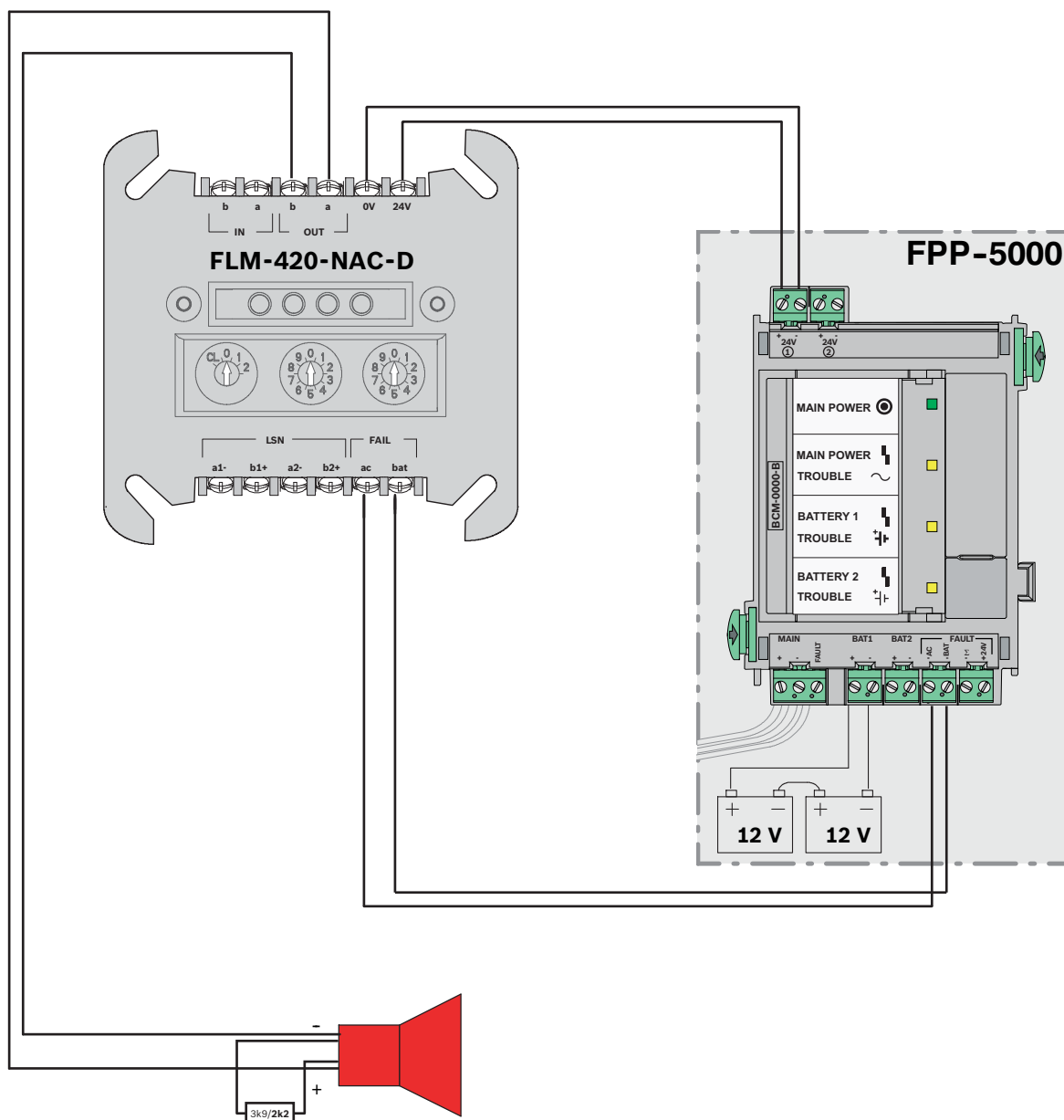
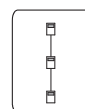
**PB 2005**

**FNS-320**

**FNS-320**



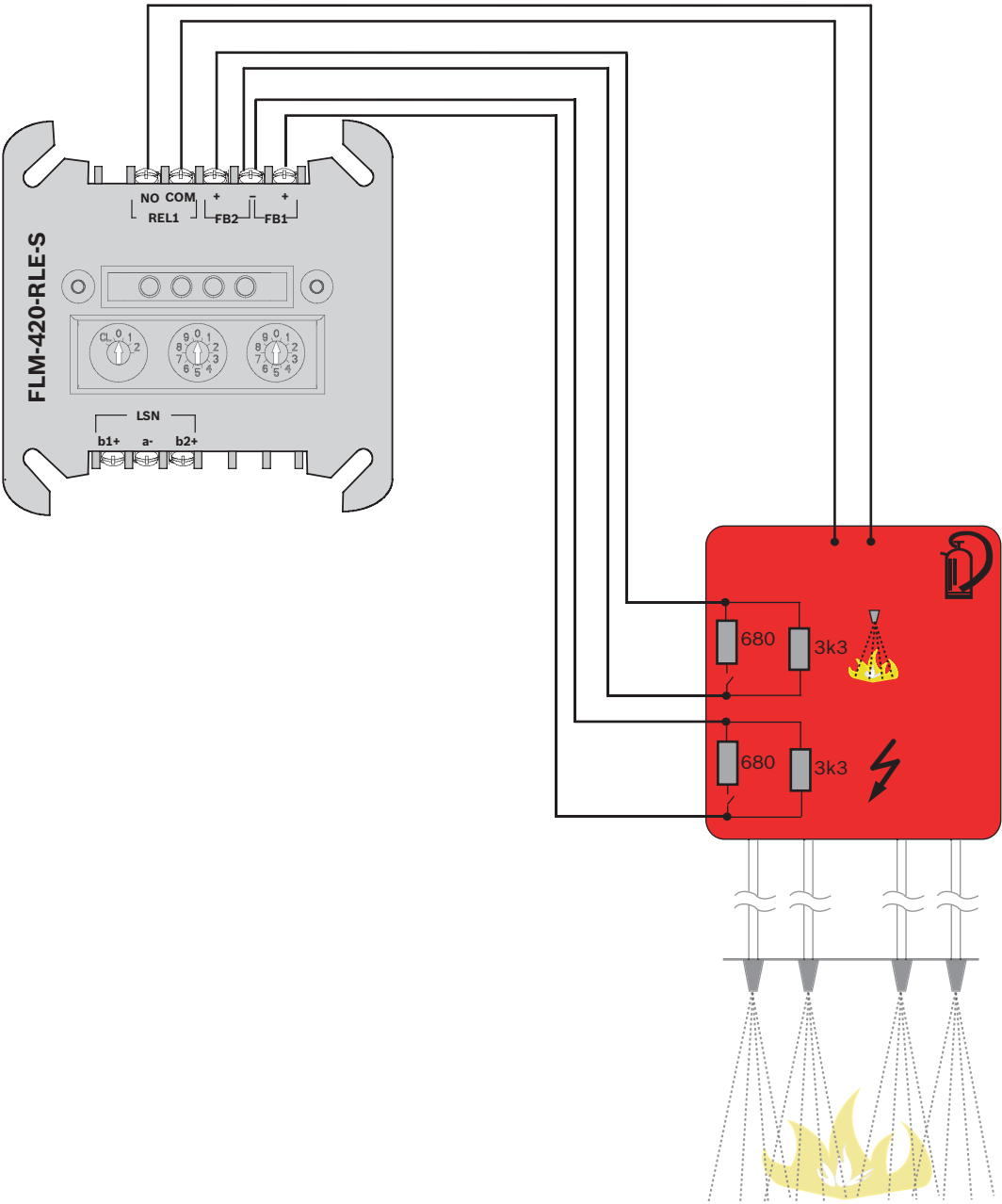
**FNM-320V-A / -B**

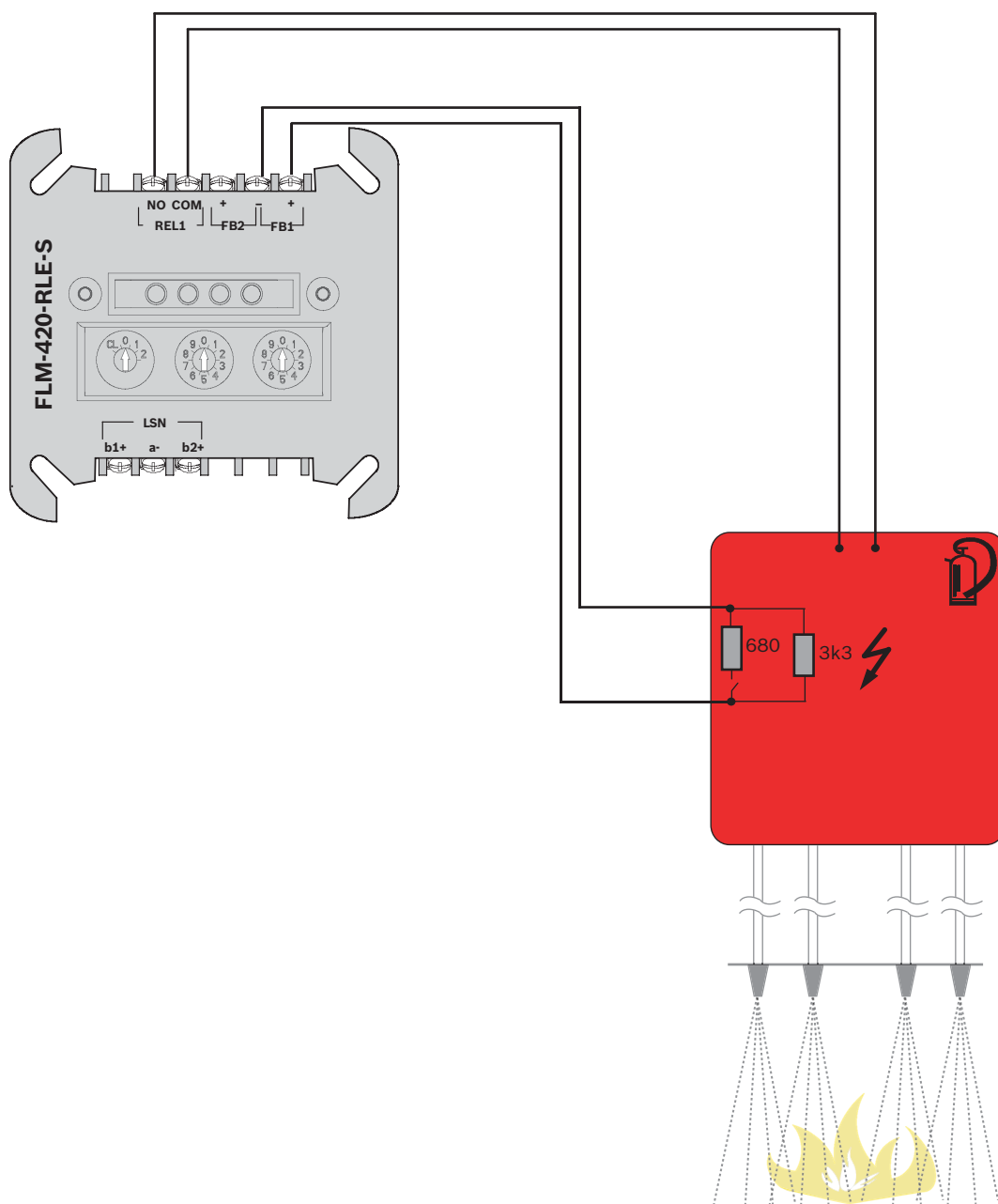
**FPP-5000**

2.5.3 FLM-420-RLE-S



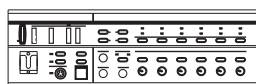
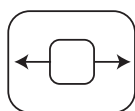
VdS 2496/2005



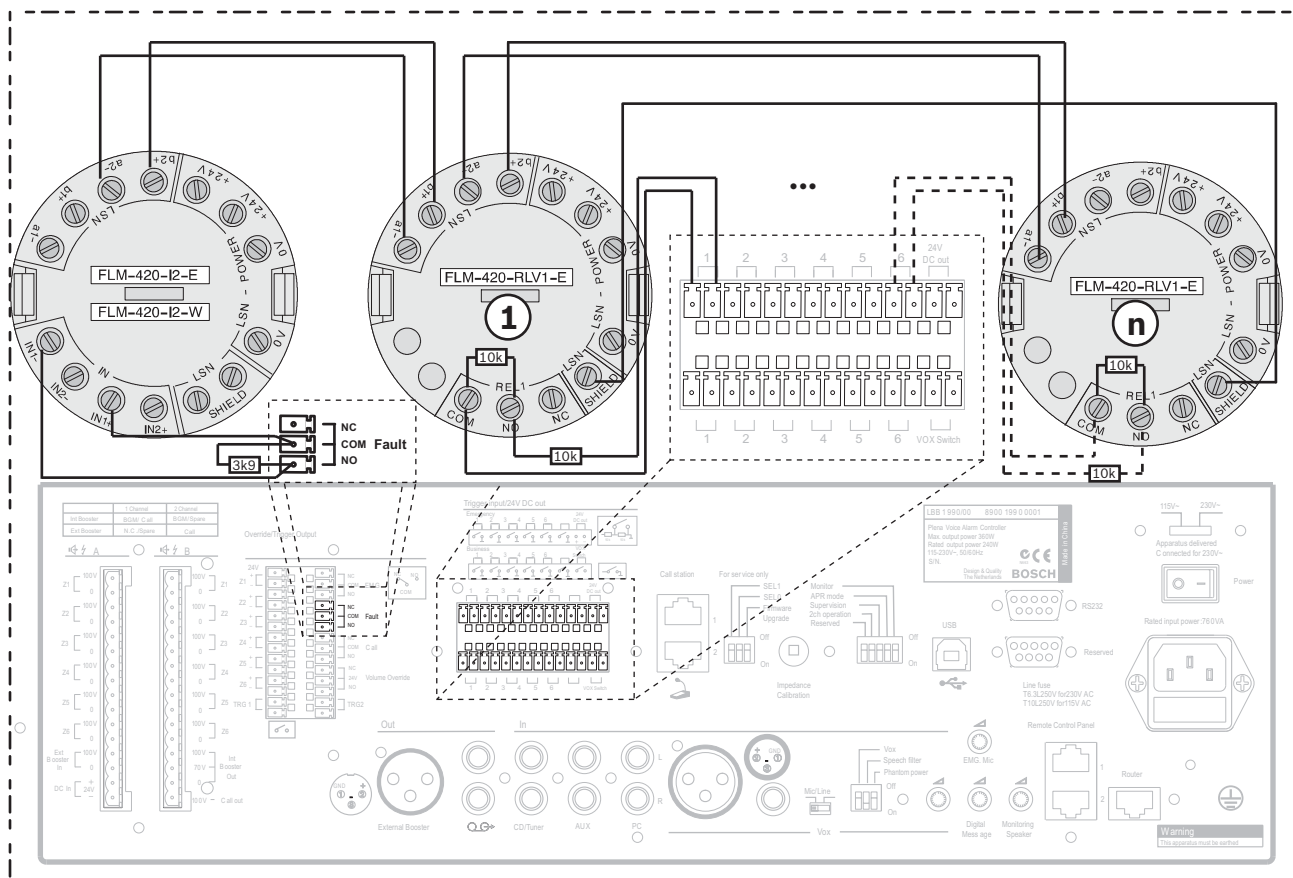
**VdS 1996**

2.5.4

FLM-420-RLV1-E

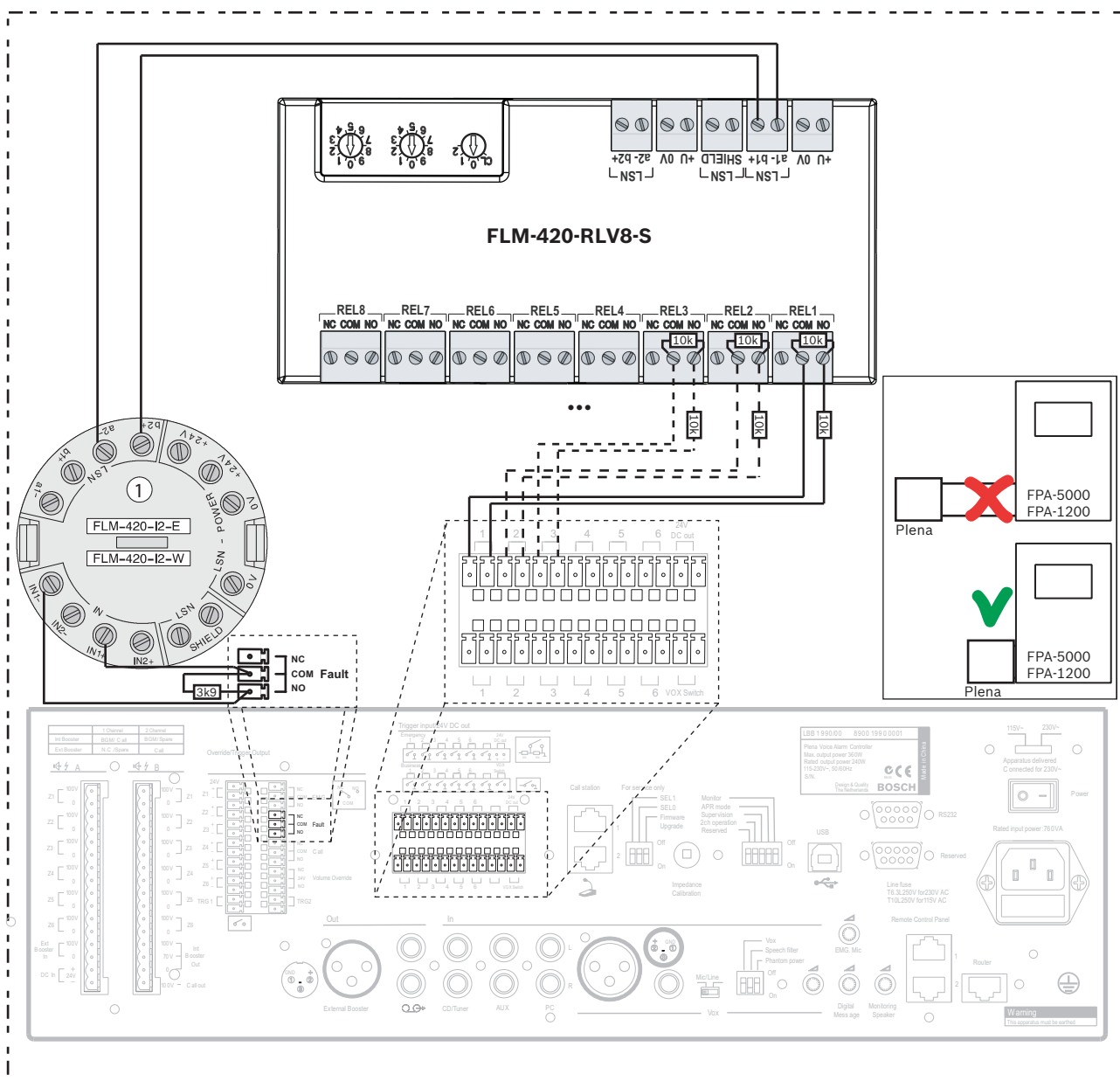
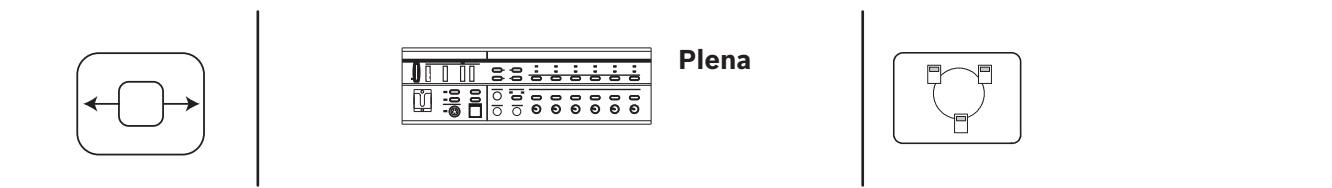


Plena



2.5.5

FLM-420-RLV8-S



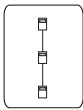
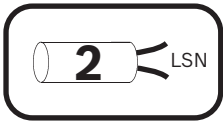
2.6

EN 54-13

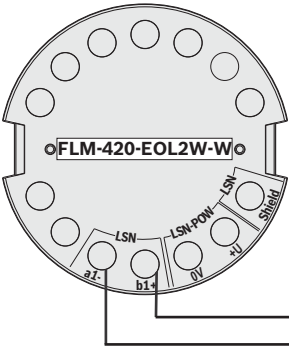
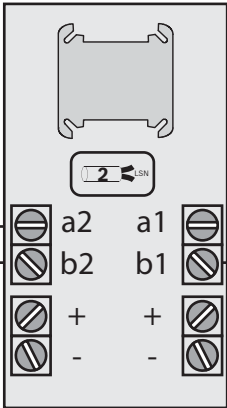
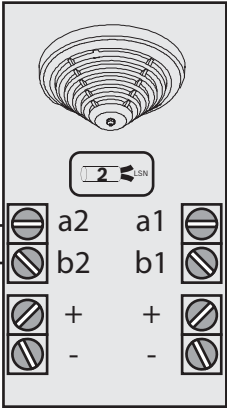
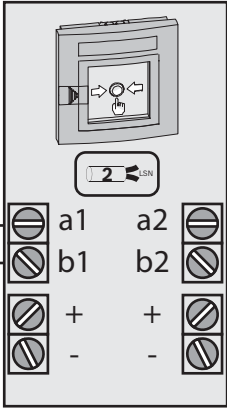
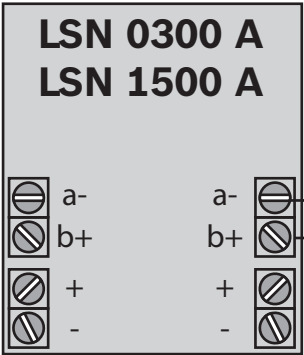


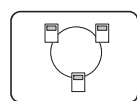
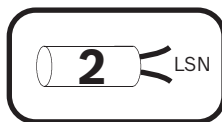
LSN 0300 A	195
CZM 0004 A	258
FLM-420/4-CON-S/D	269
NZM 0002 A	282
FLM-420-NAC-D	290

2.6.1 LSN 0300 A (EN 54-13)

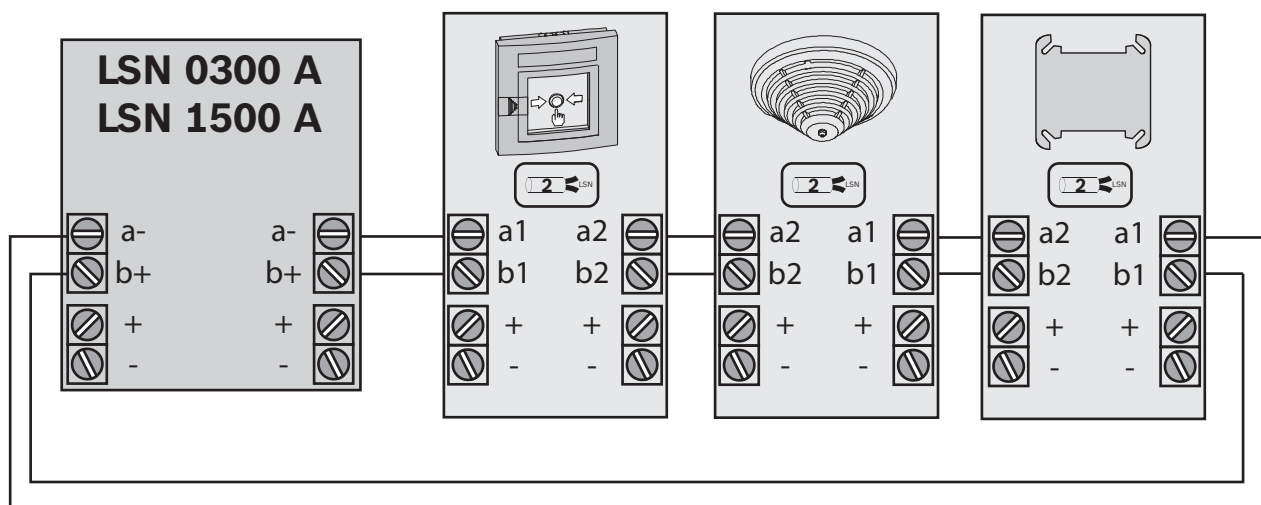


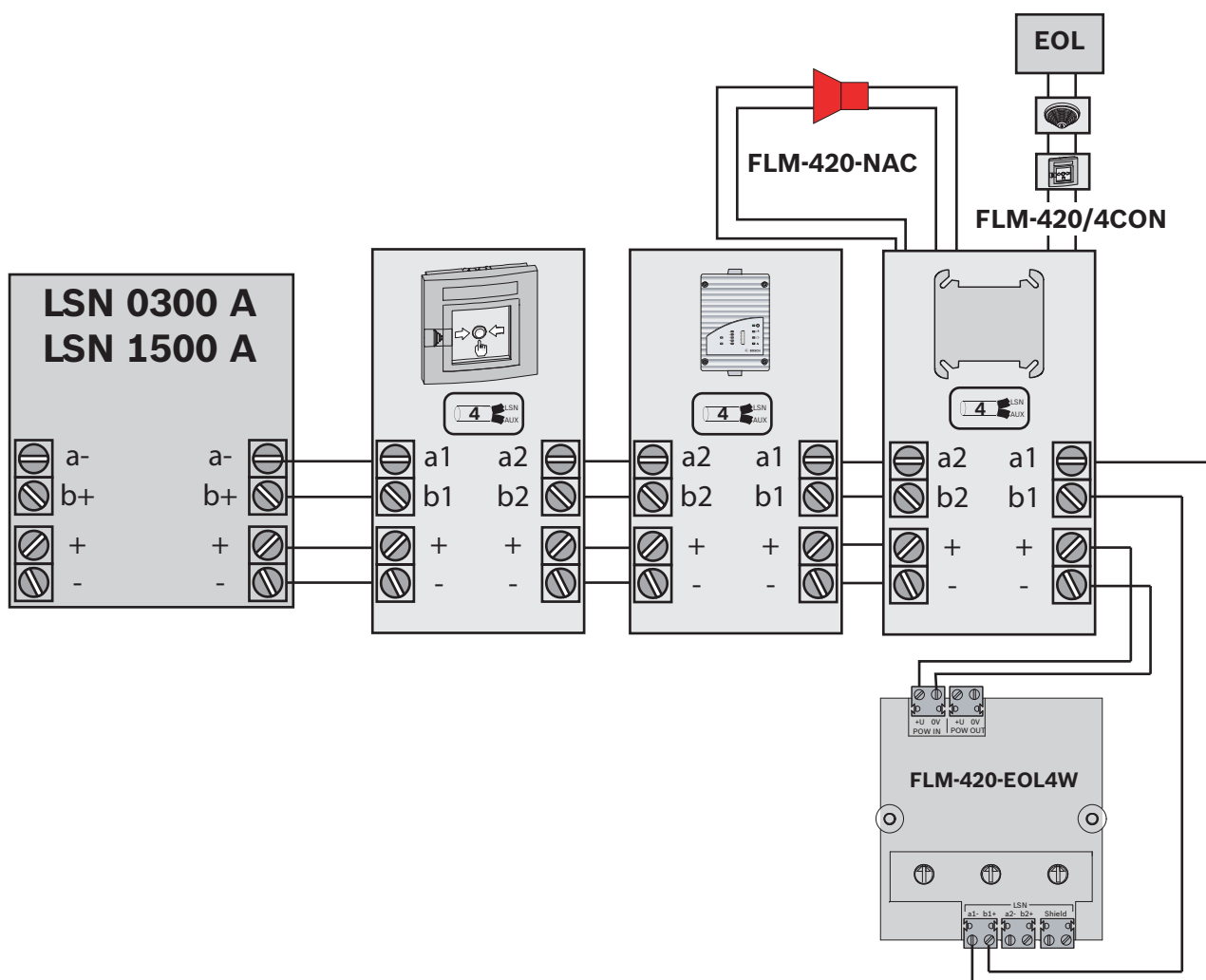
EN54-13

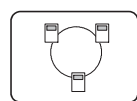
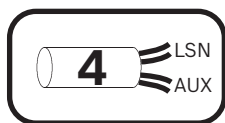




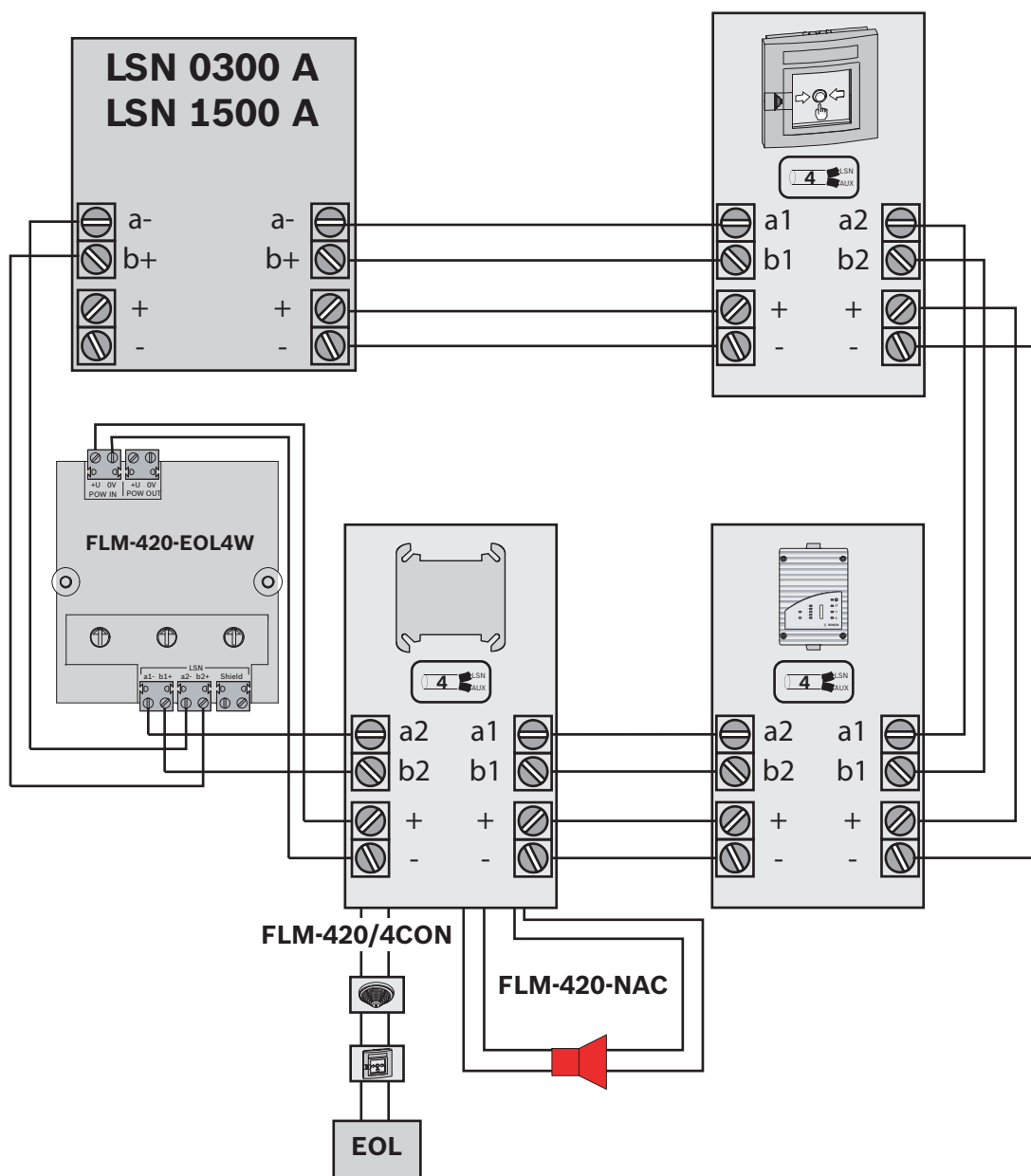
EN54-13

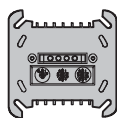
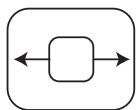




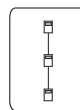


EN54-13

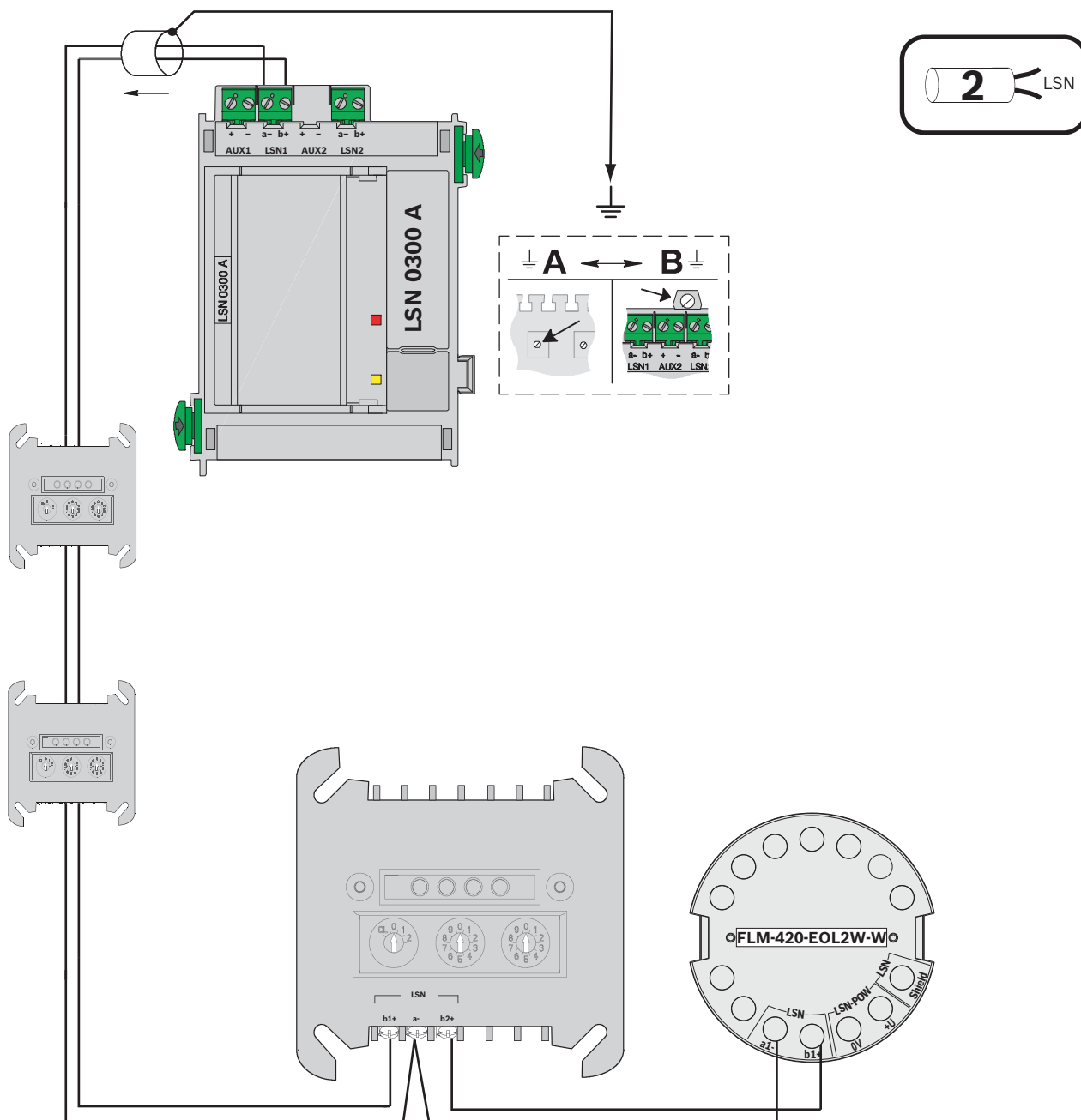


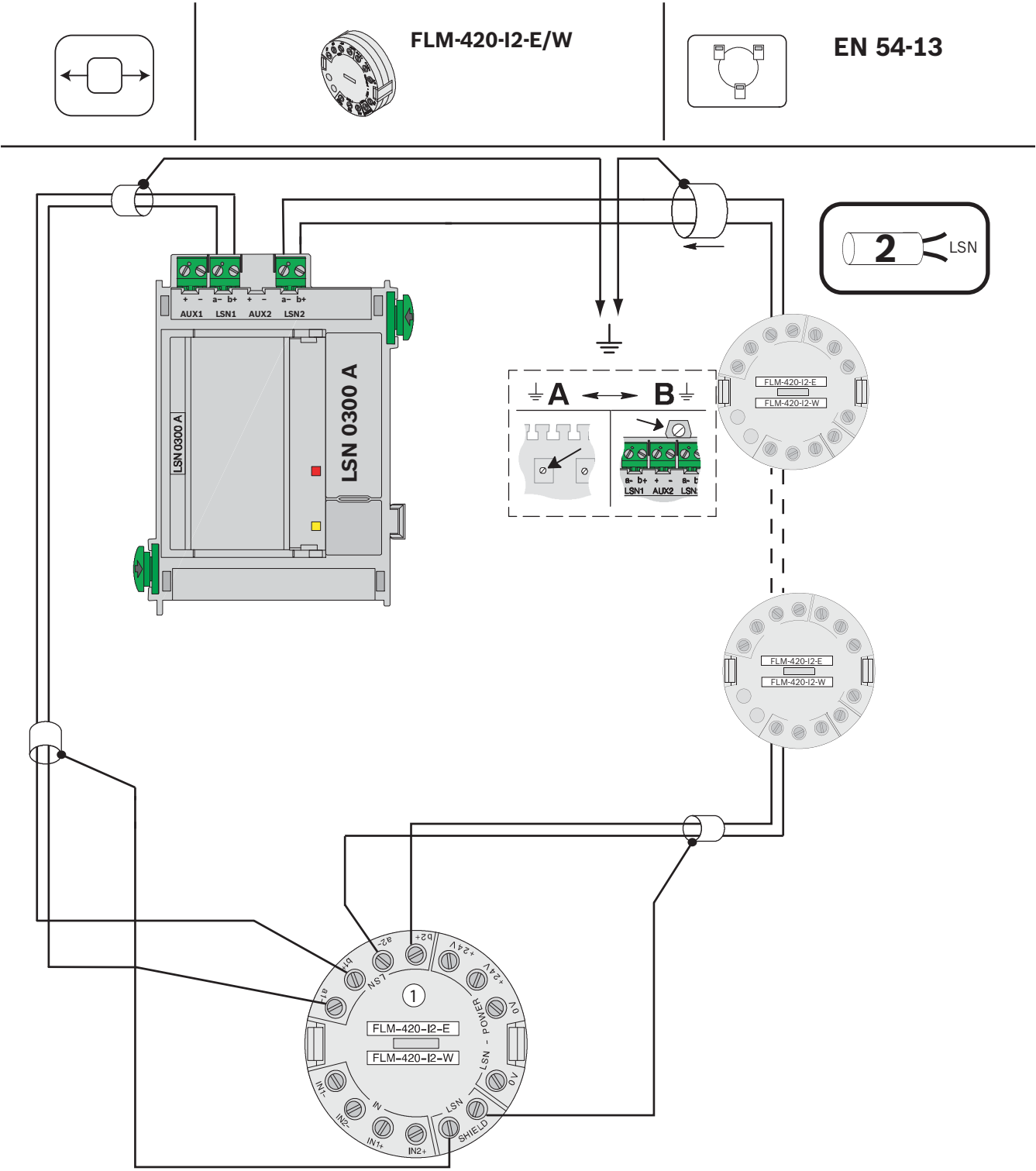


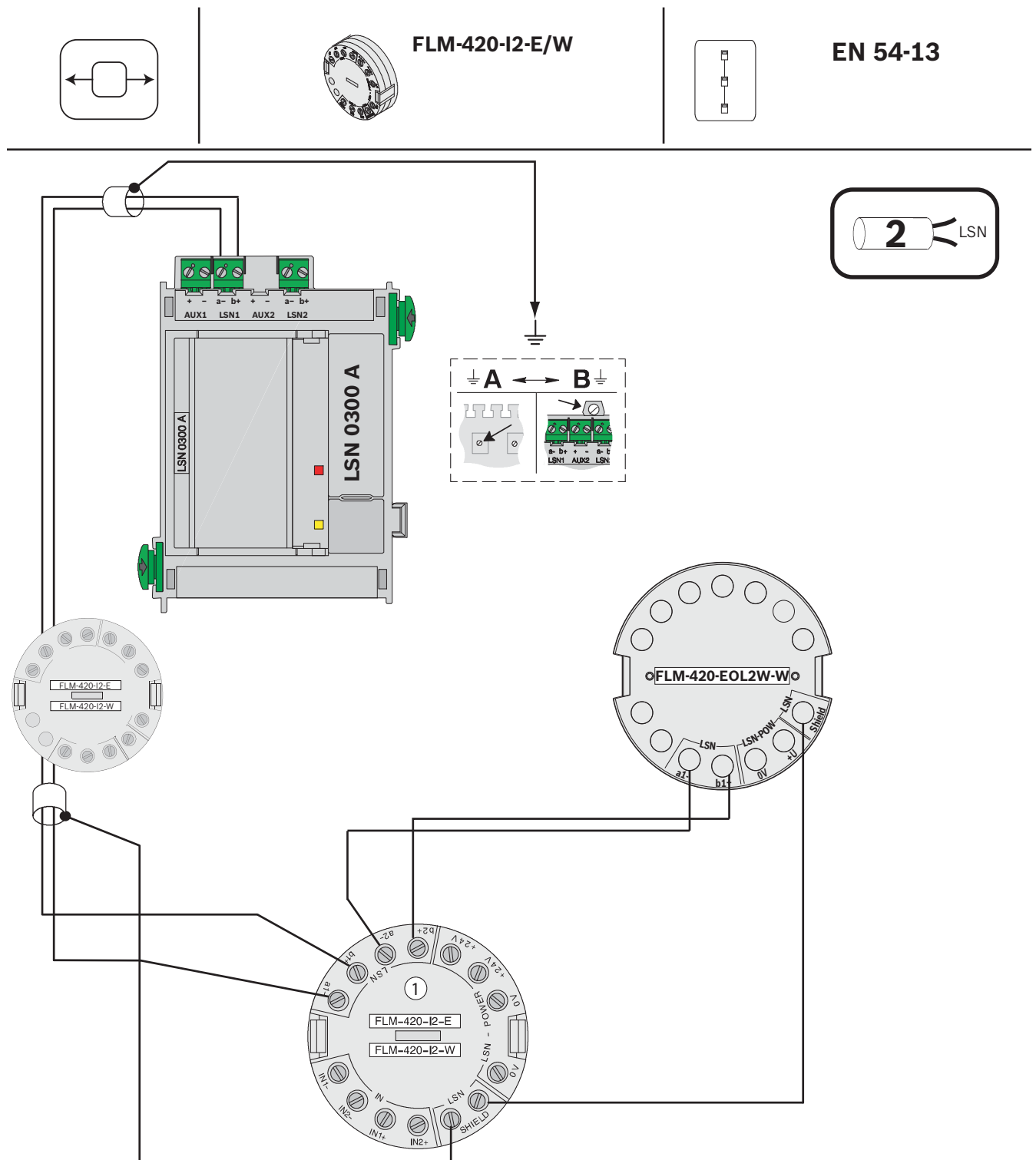
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-O2-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

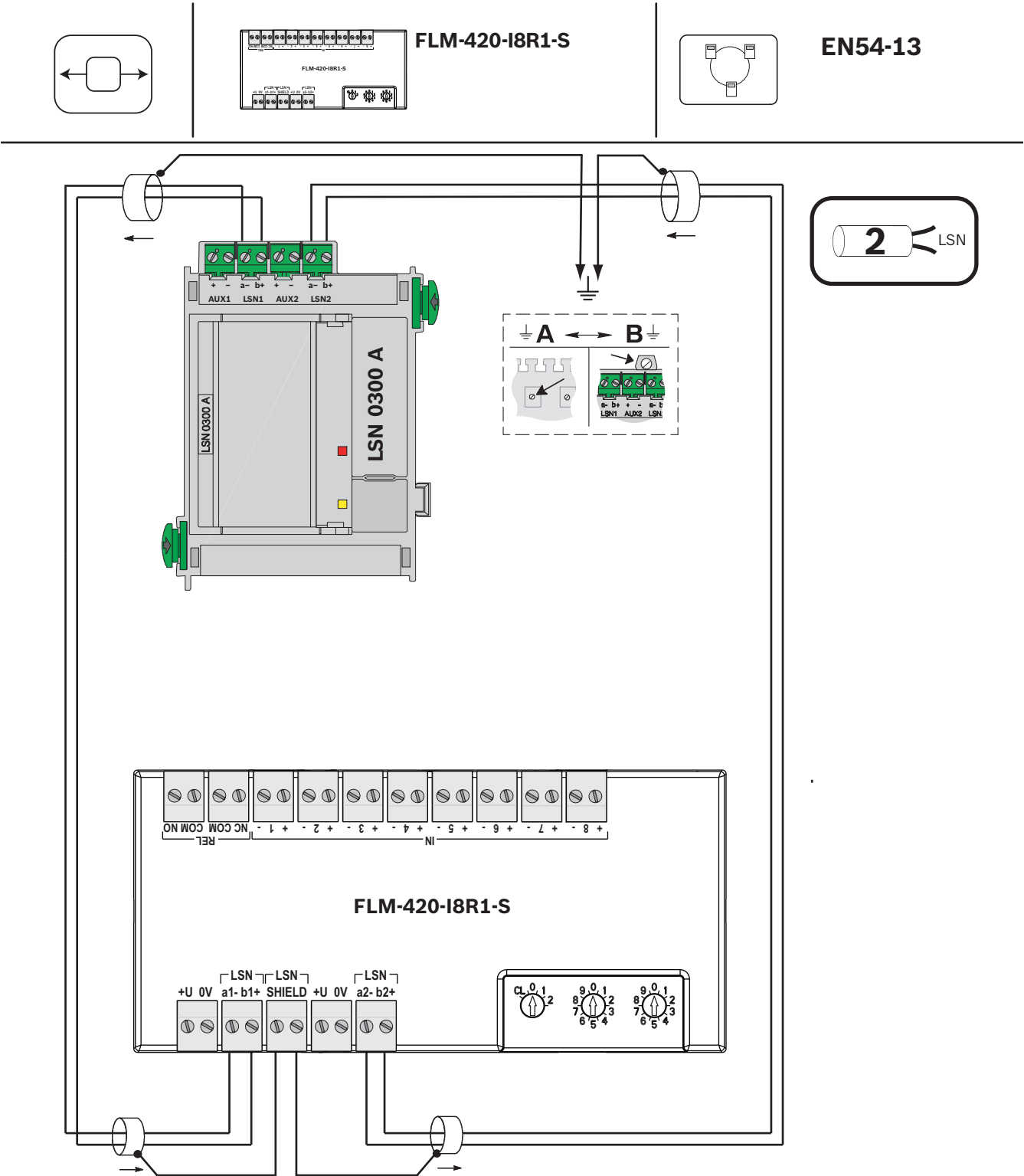


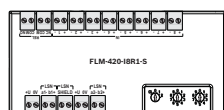
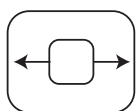
EN54-13



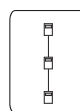




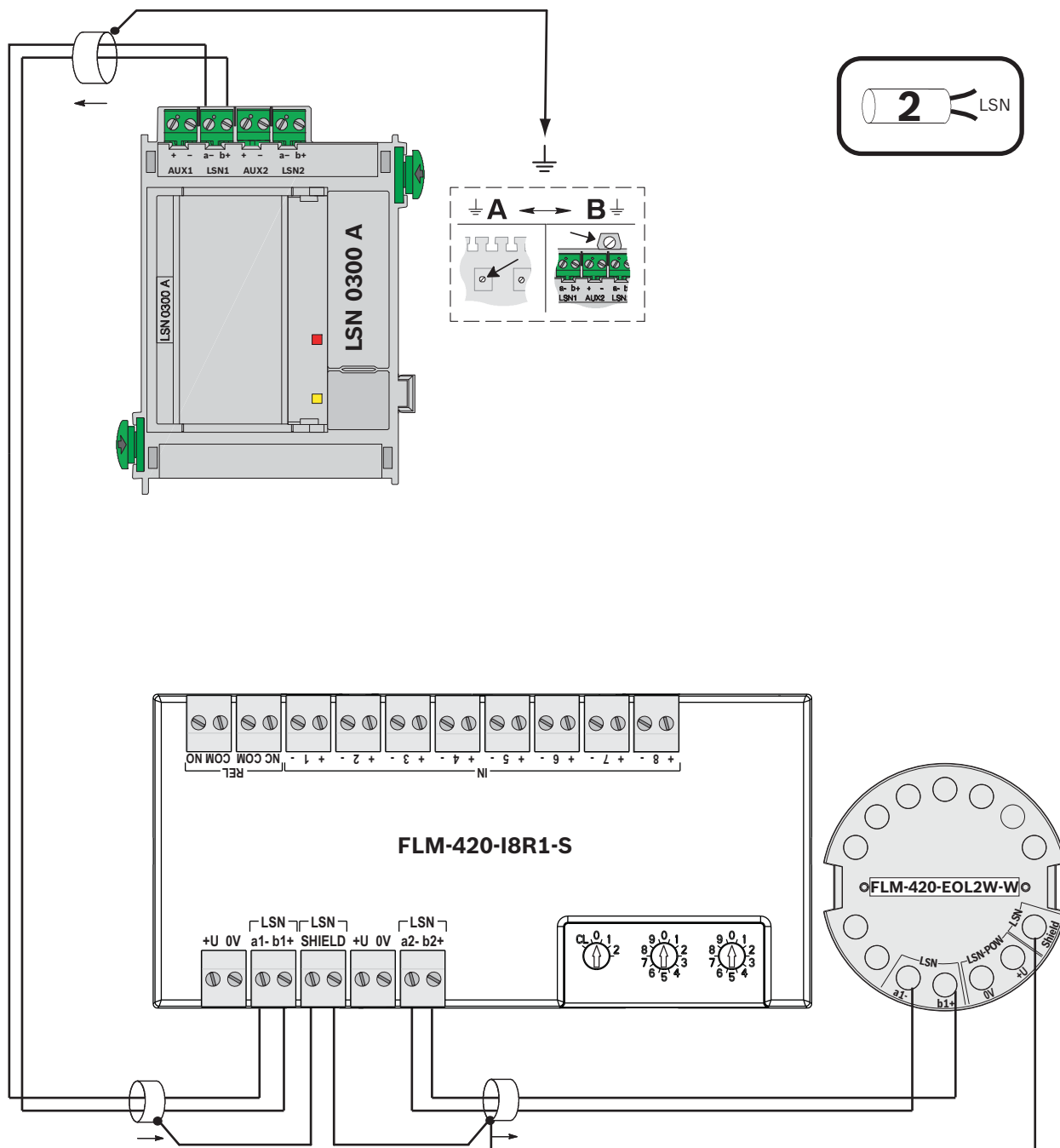


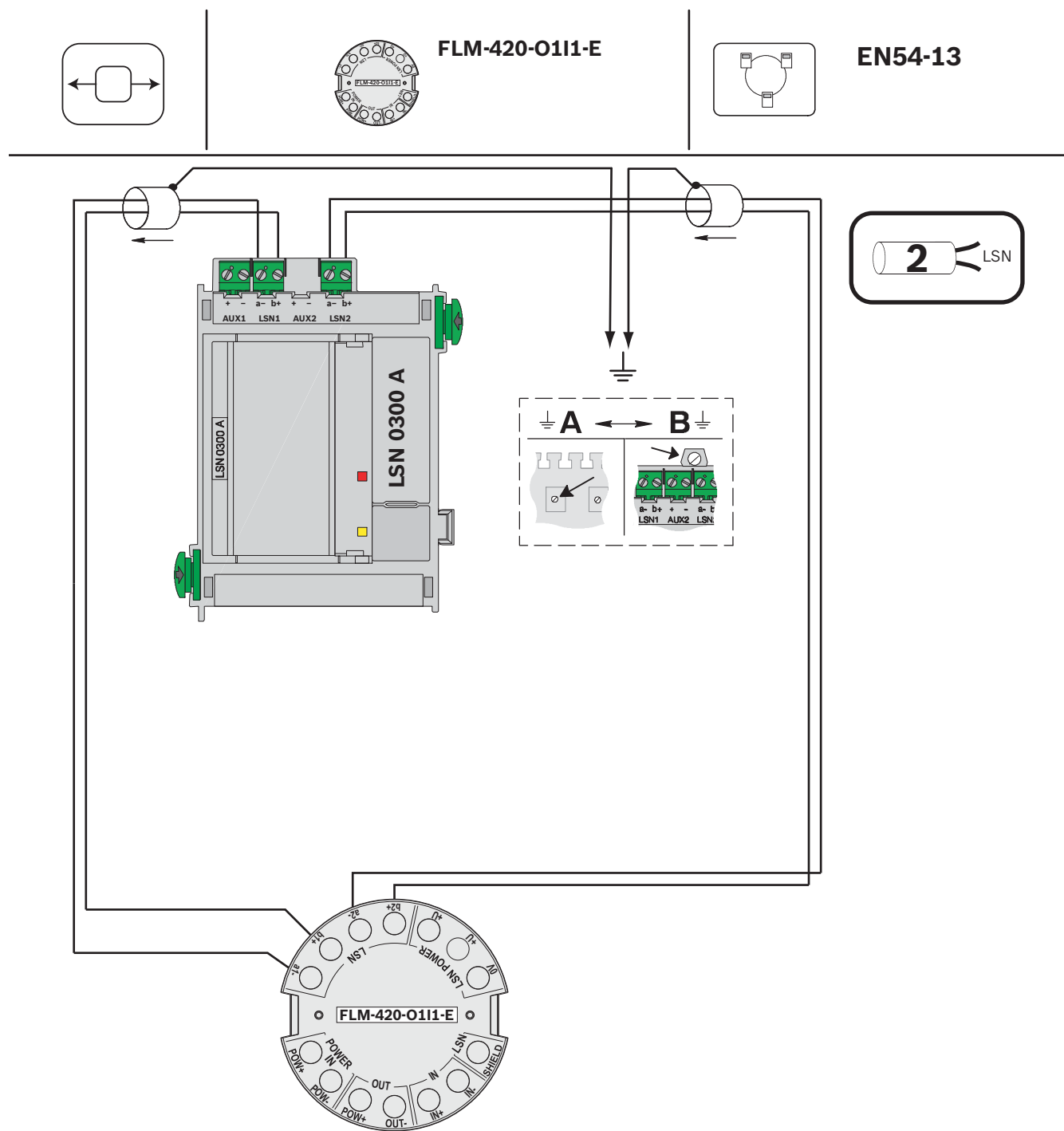


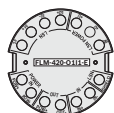
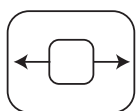
FLM-420-I8R1-S



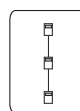
EN54-13



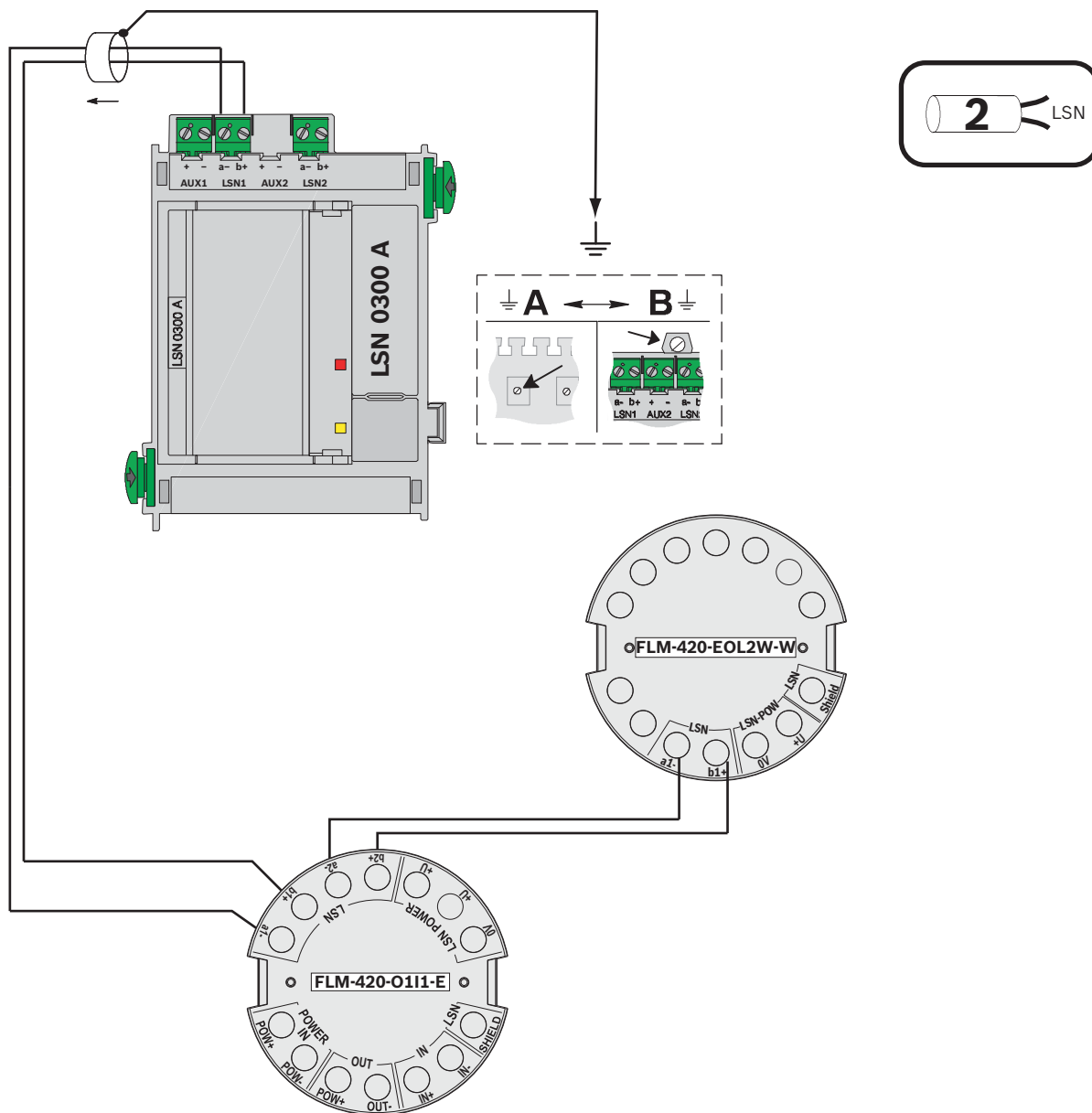


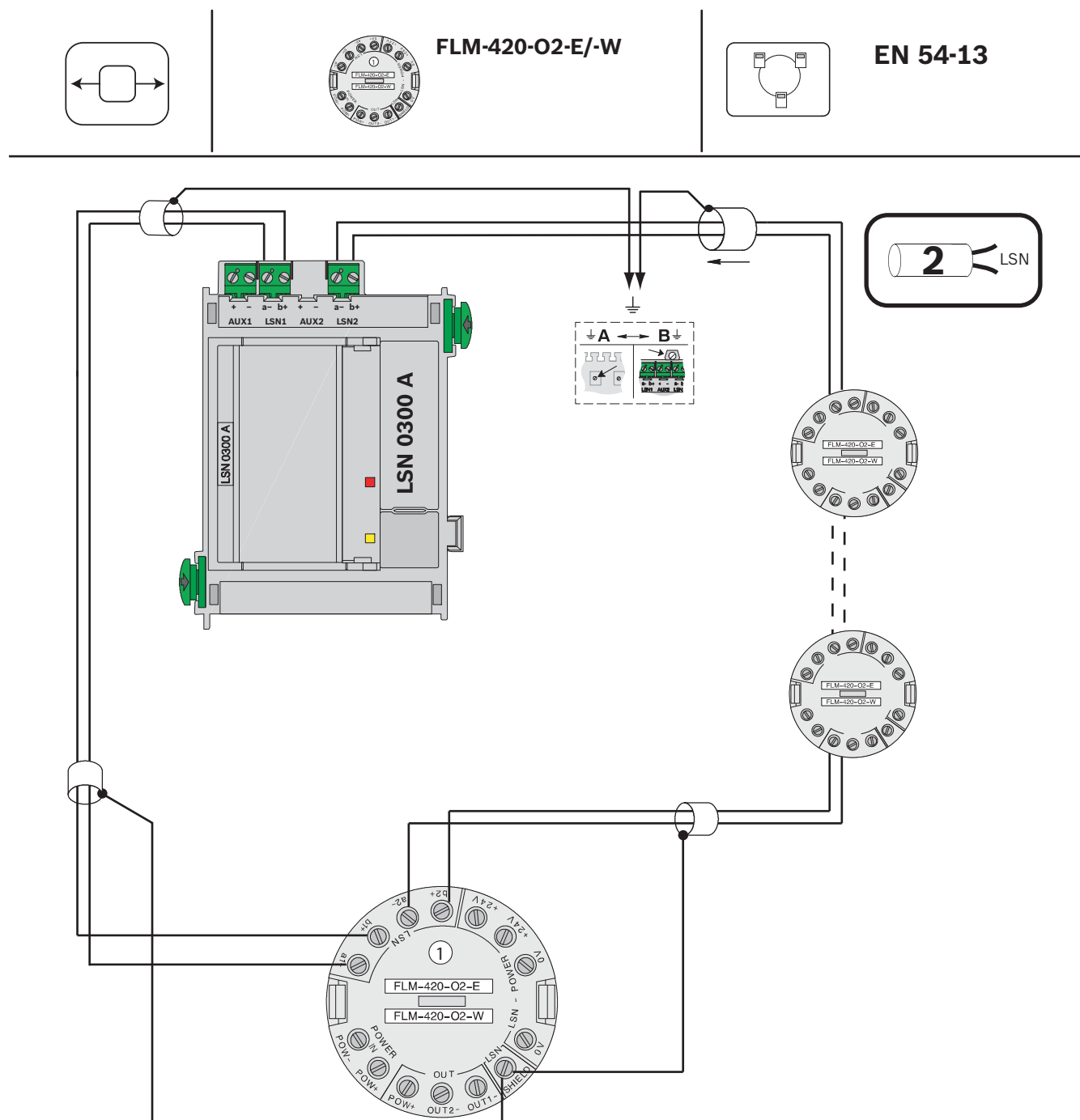


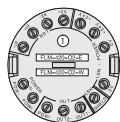
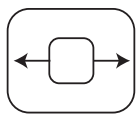
FLM-420-O1I1-E



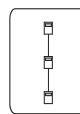
EN54-13



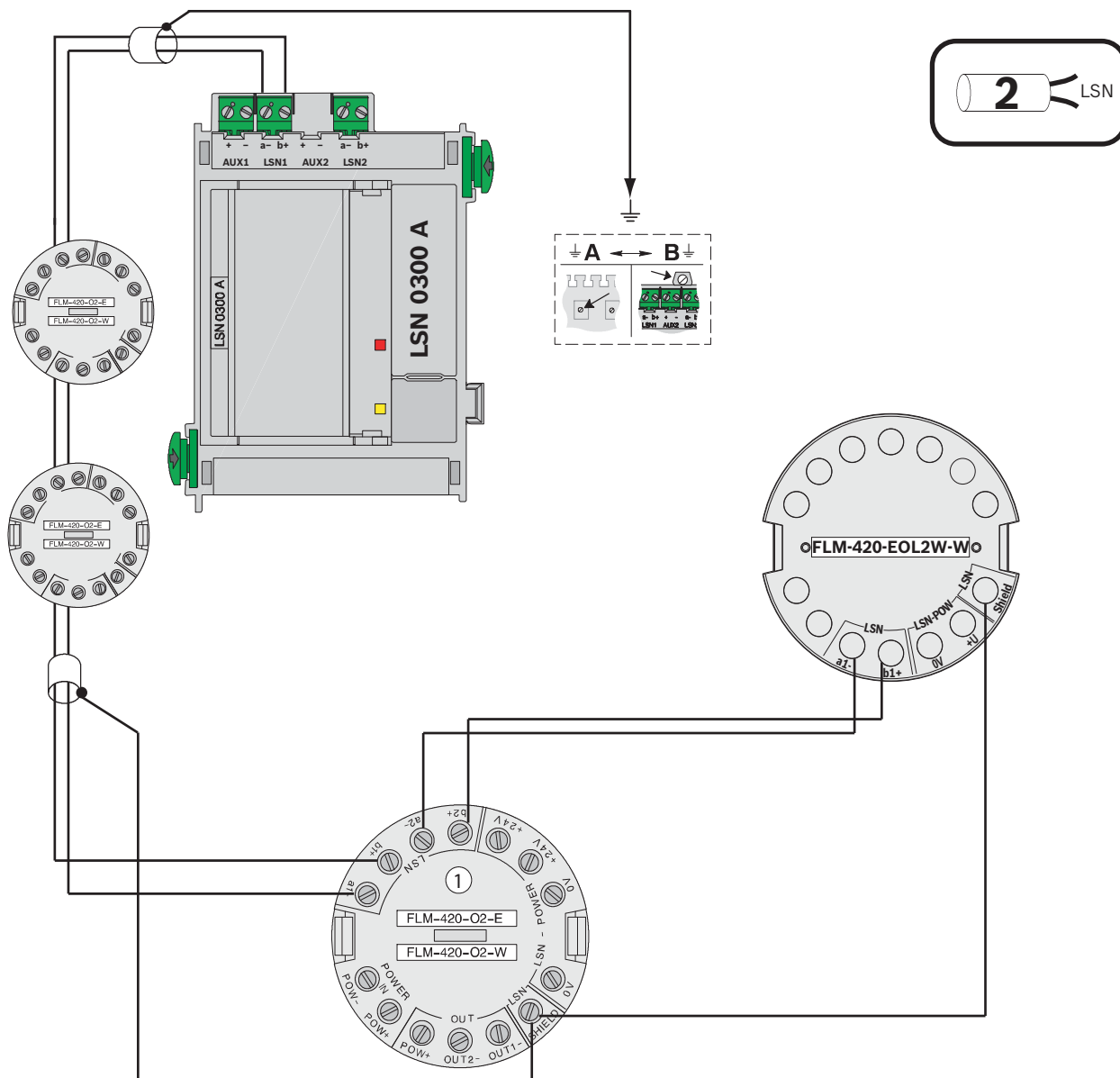


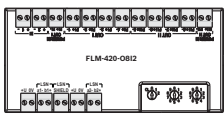
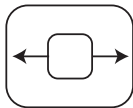


FLM-420-O2-E/-W

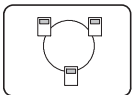


EN 54-13

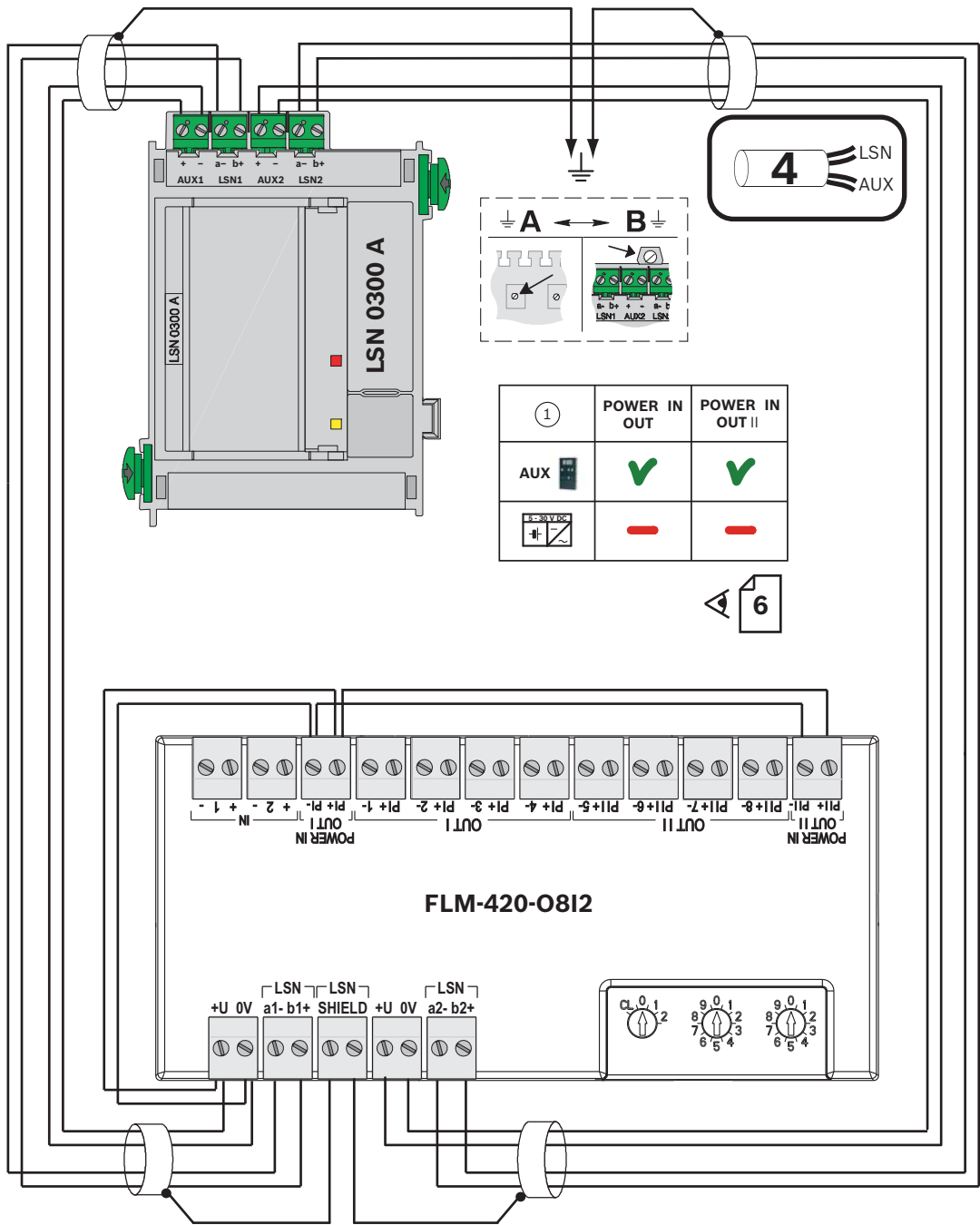


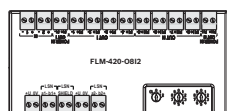
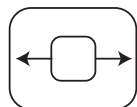


FLM-420-0812-S

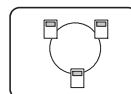
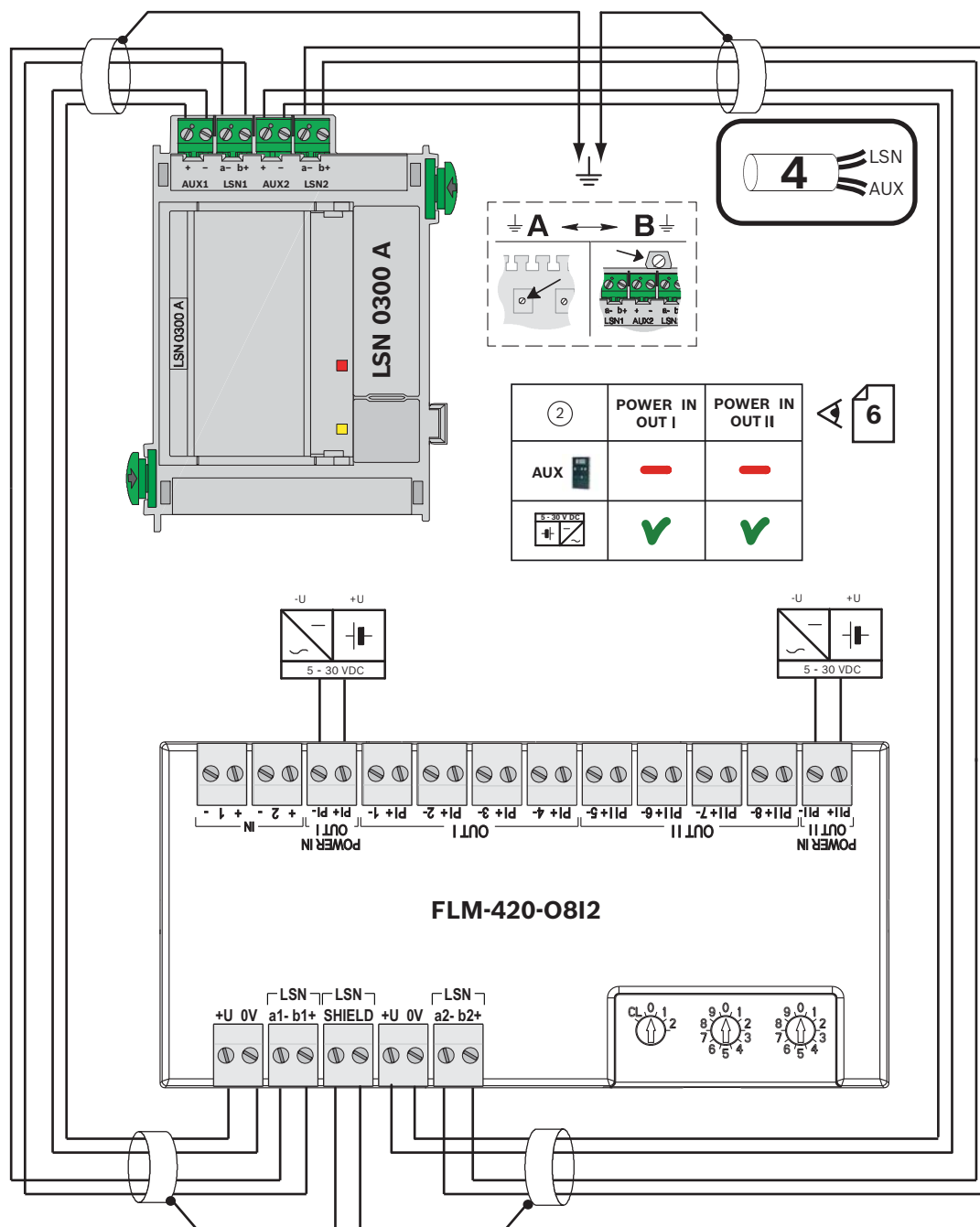


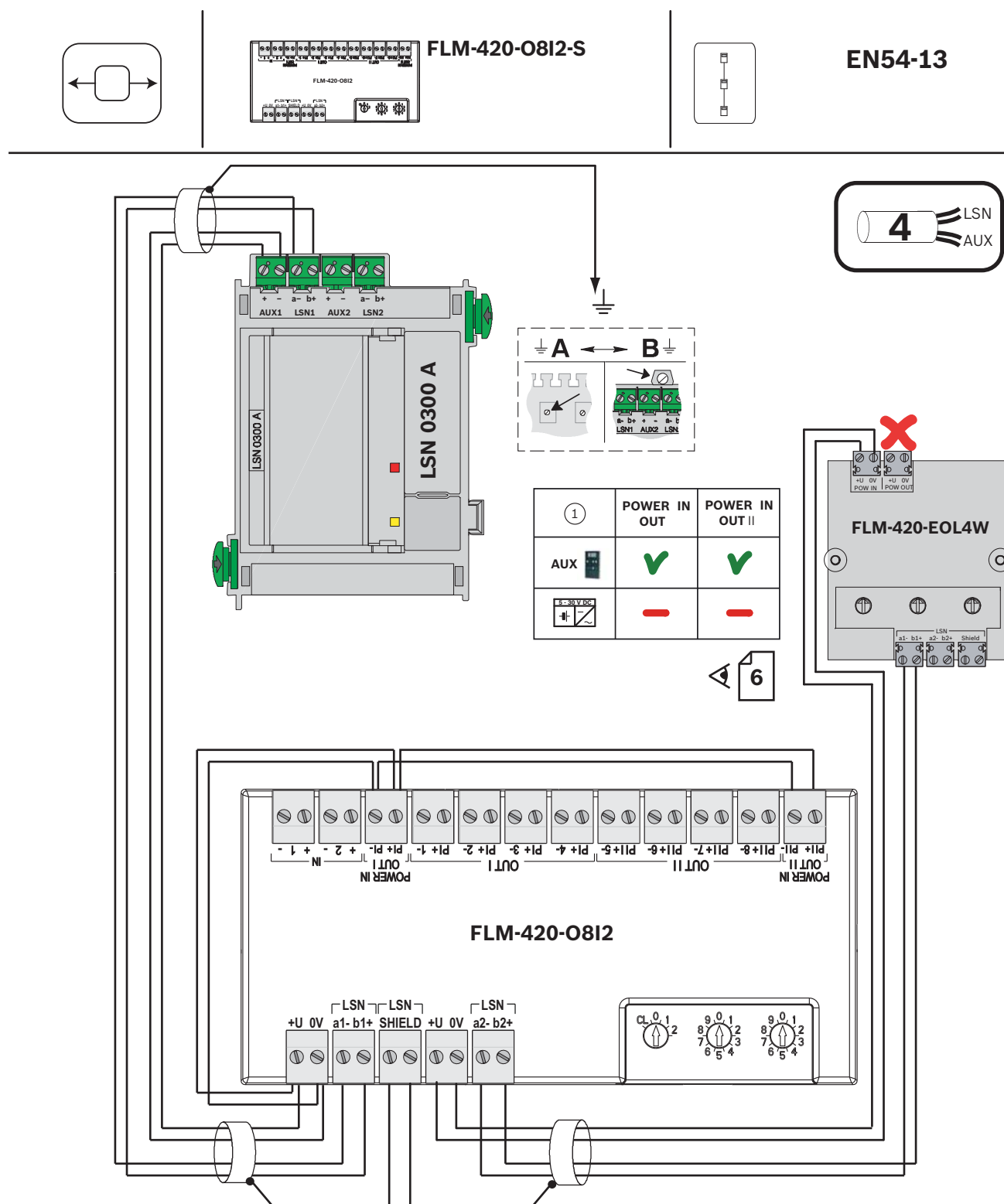
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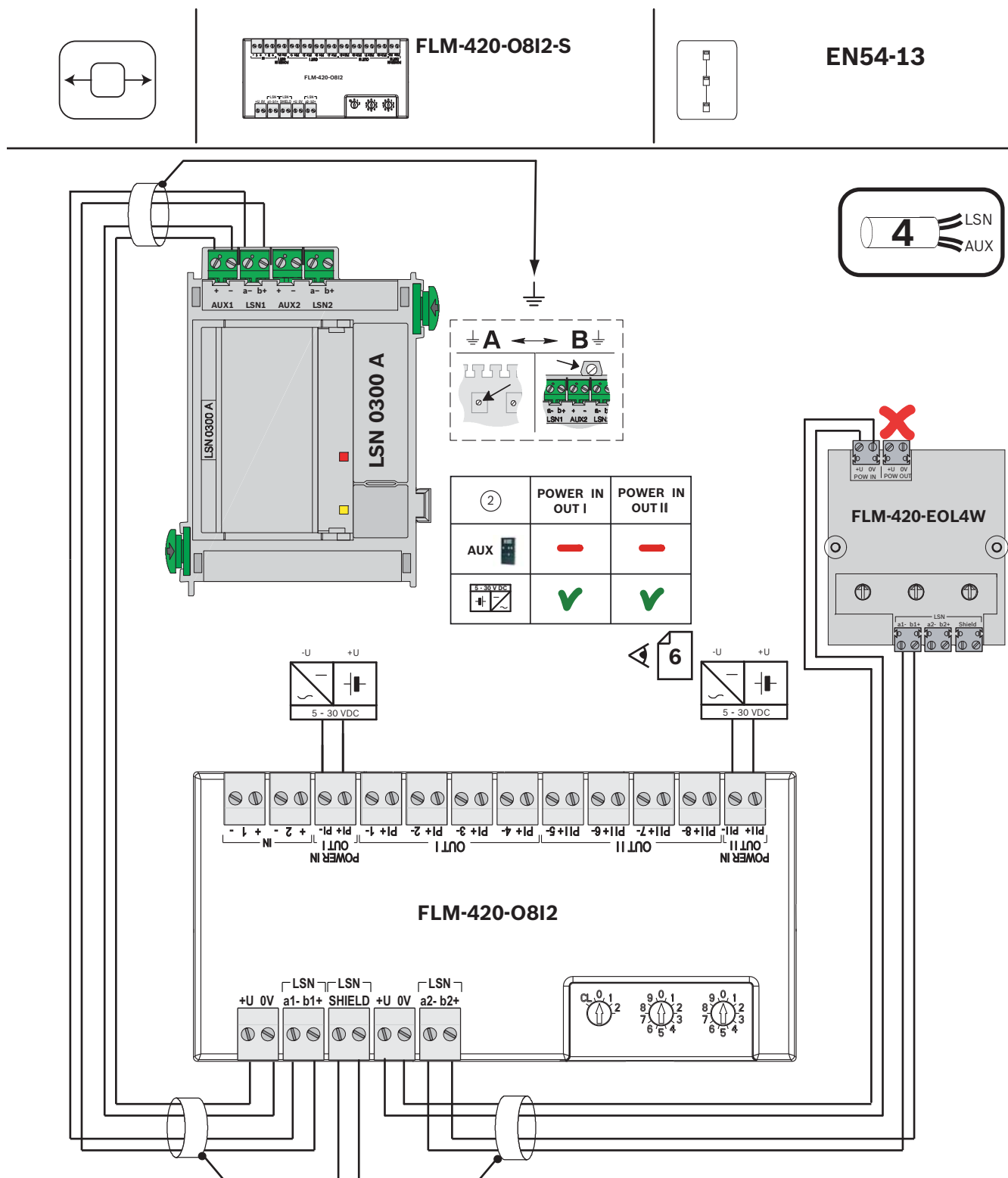


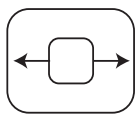


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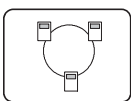
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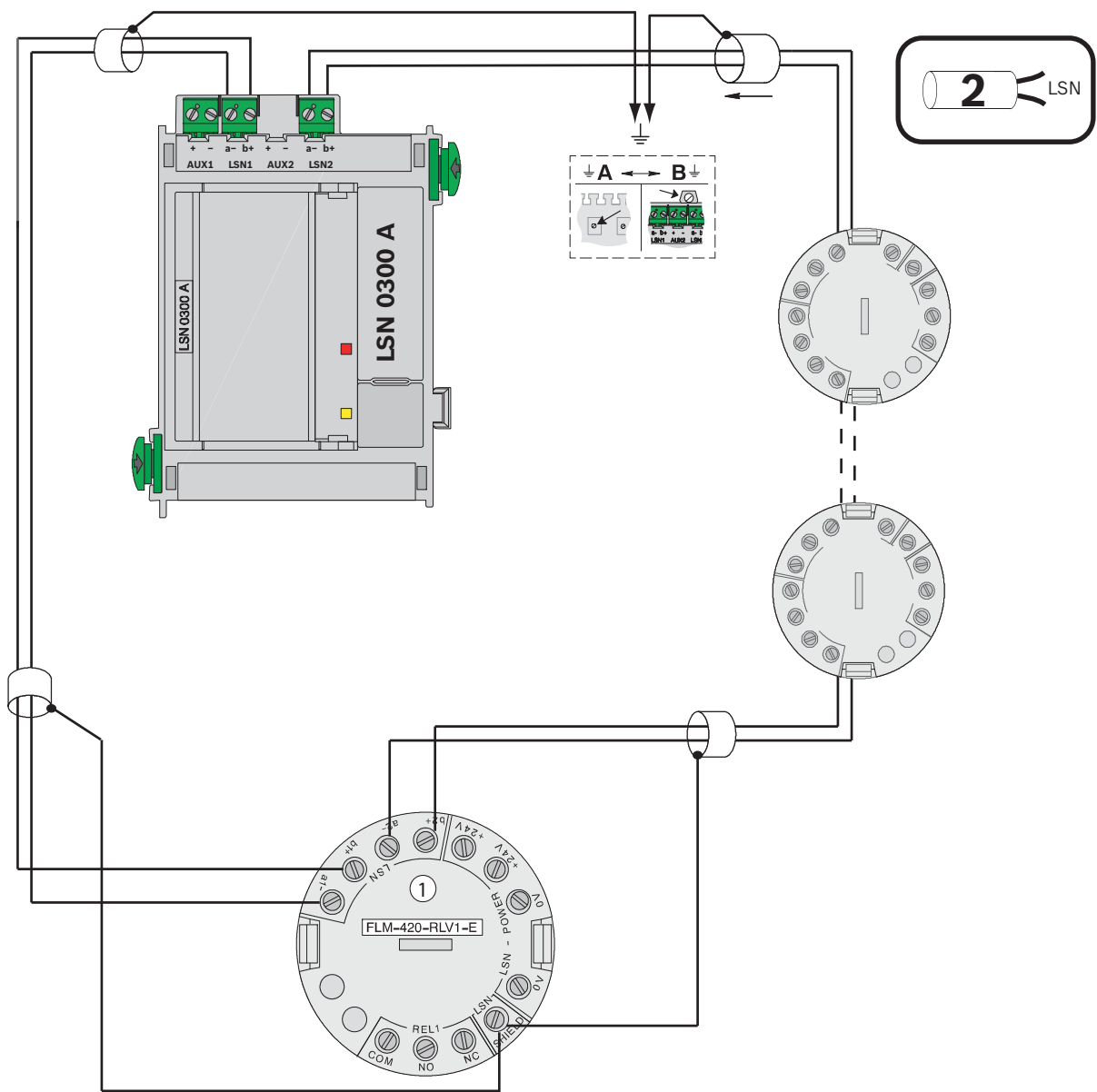


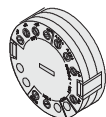
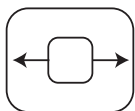


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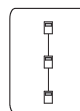


EN 54-13

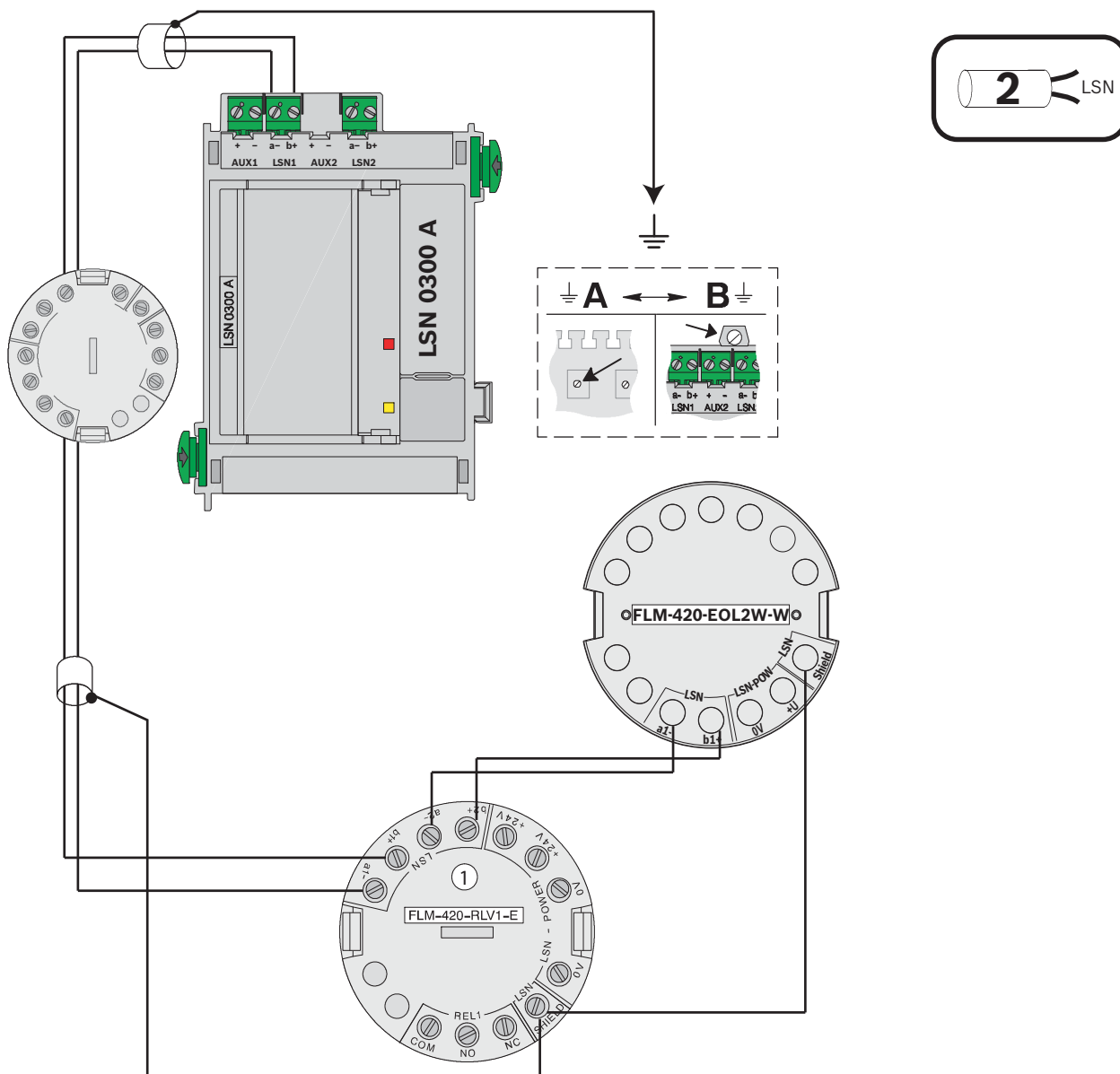


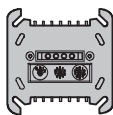
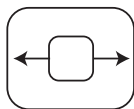


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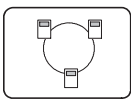


EN 54-13

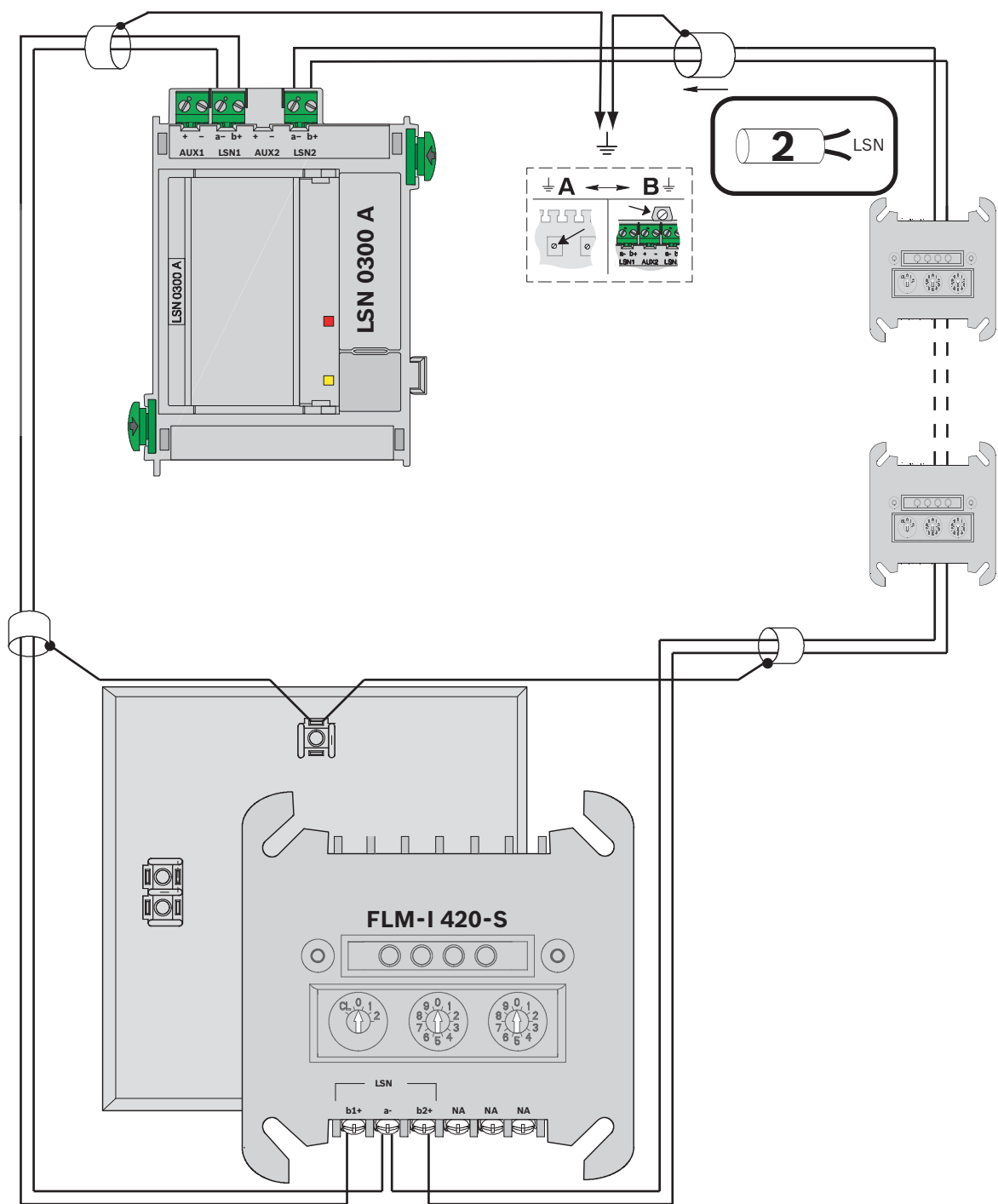


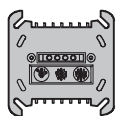
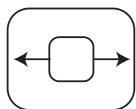


FLM-I 420-S

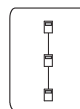


EN 54-13

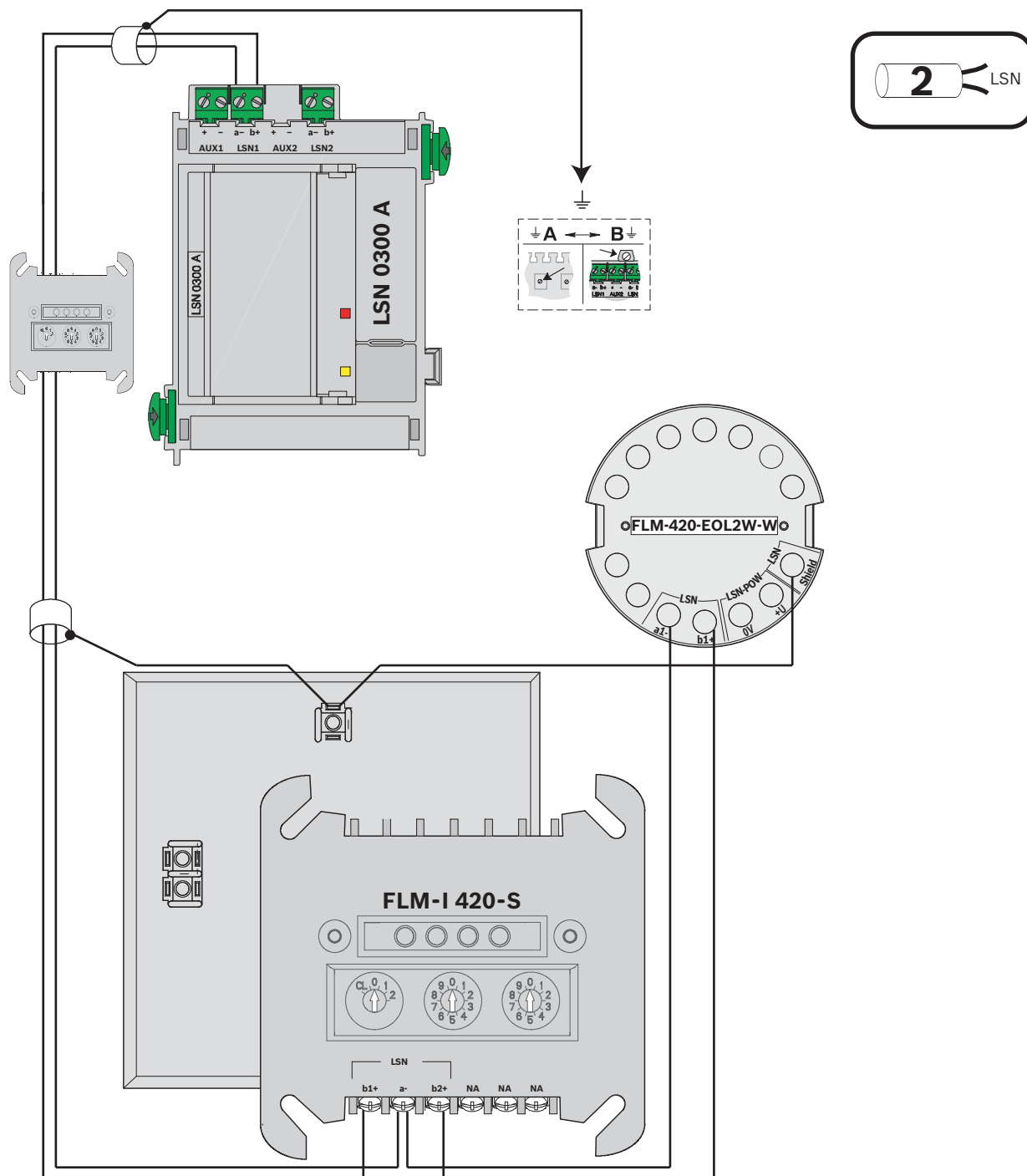


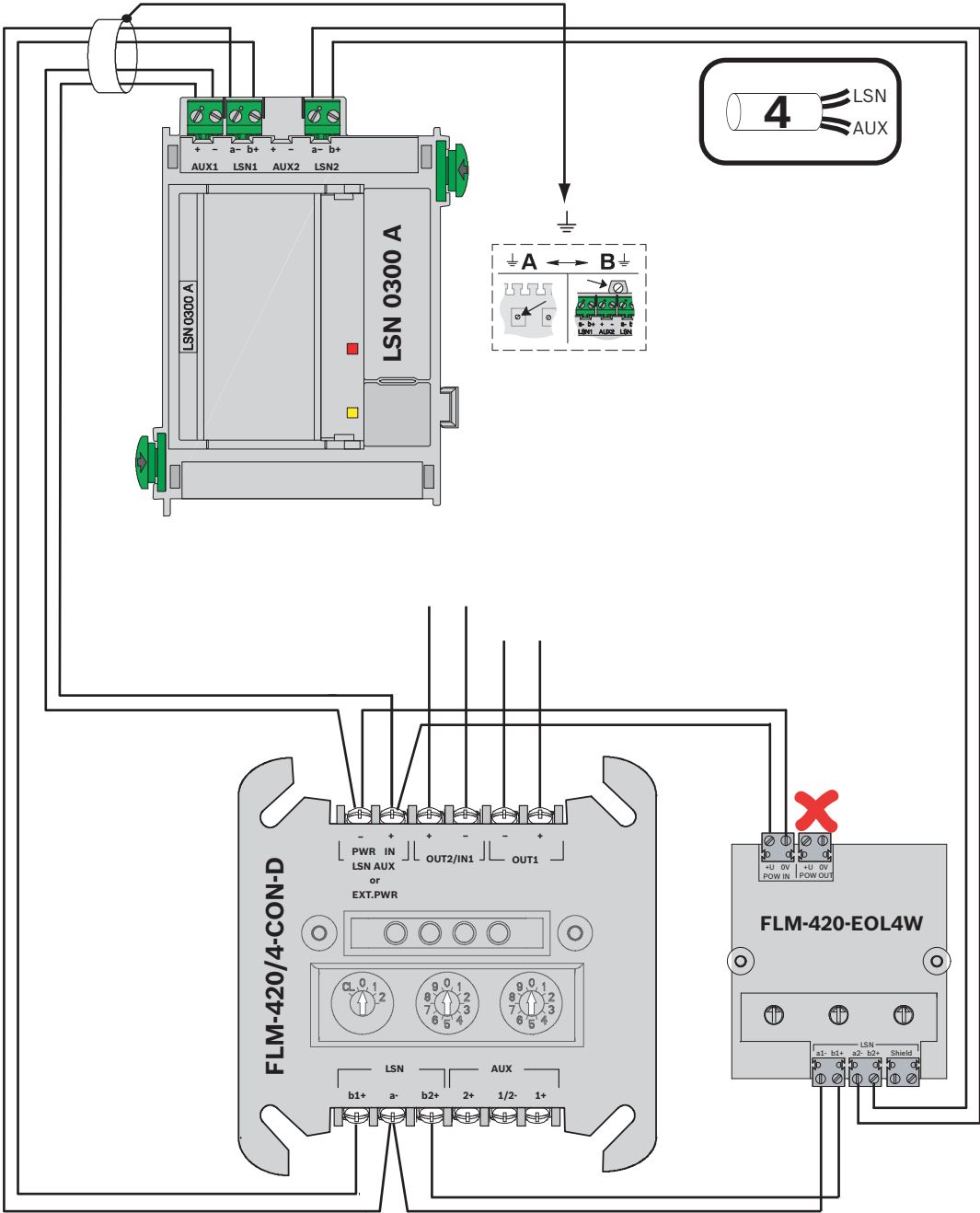
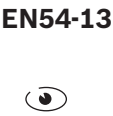
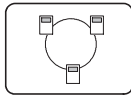
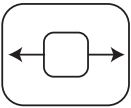


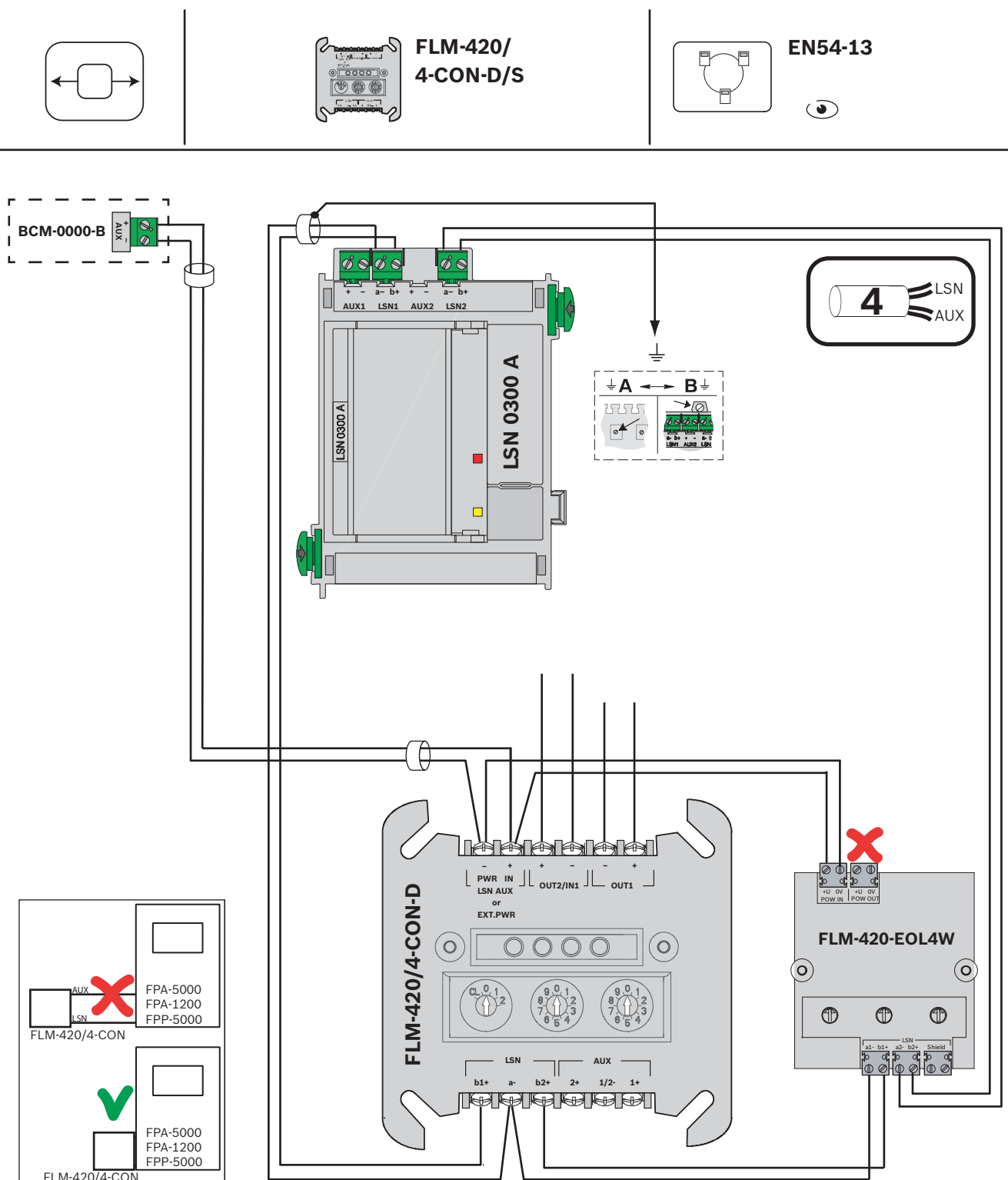
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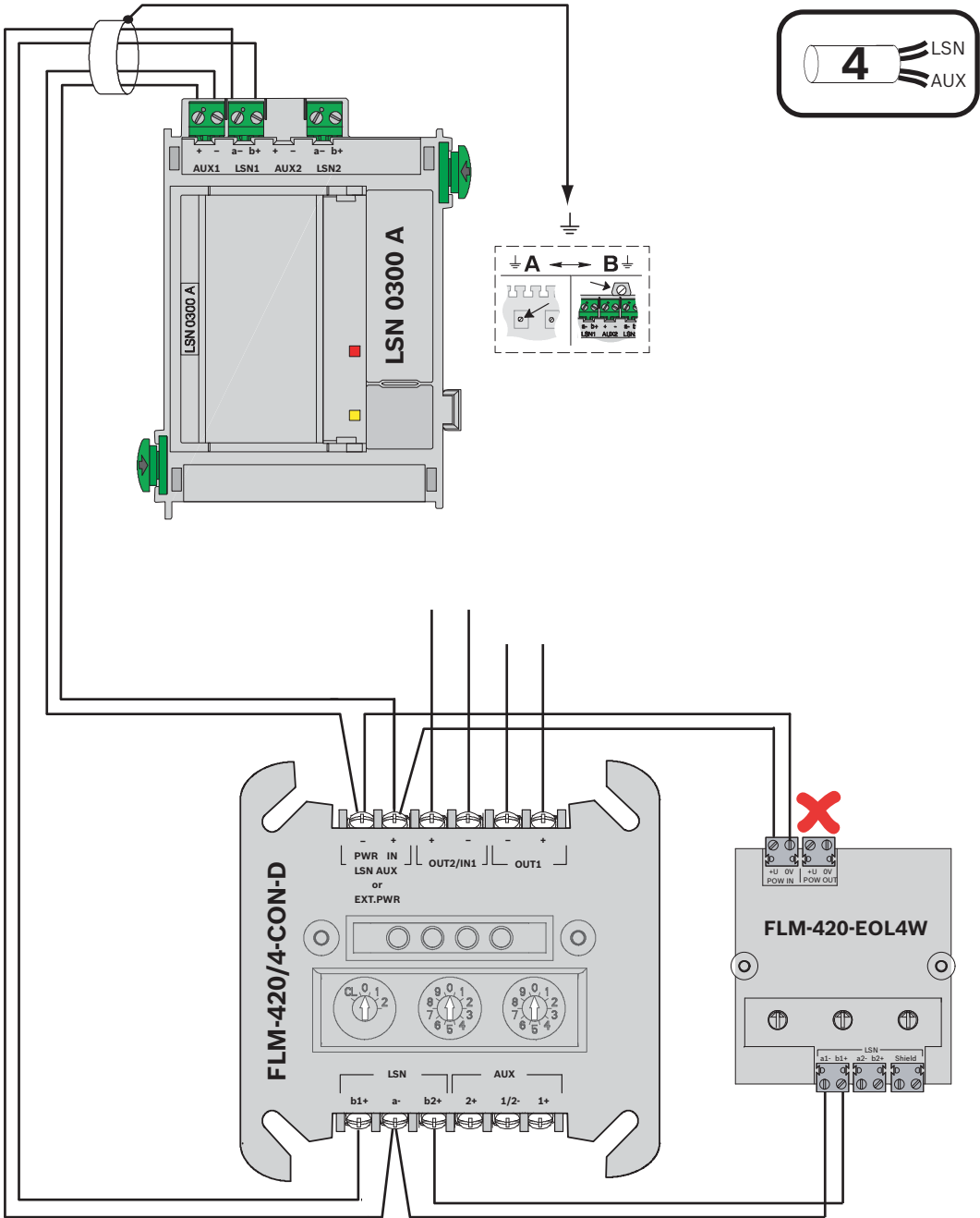
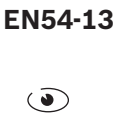
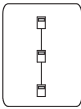
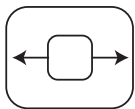


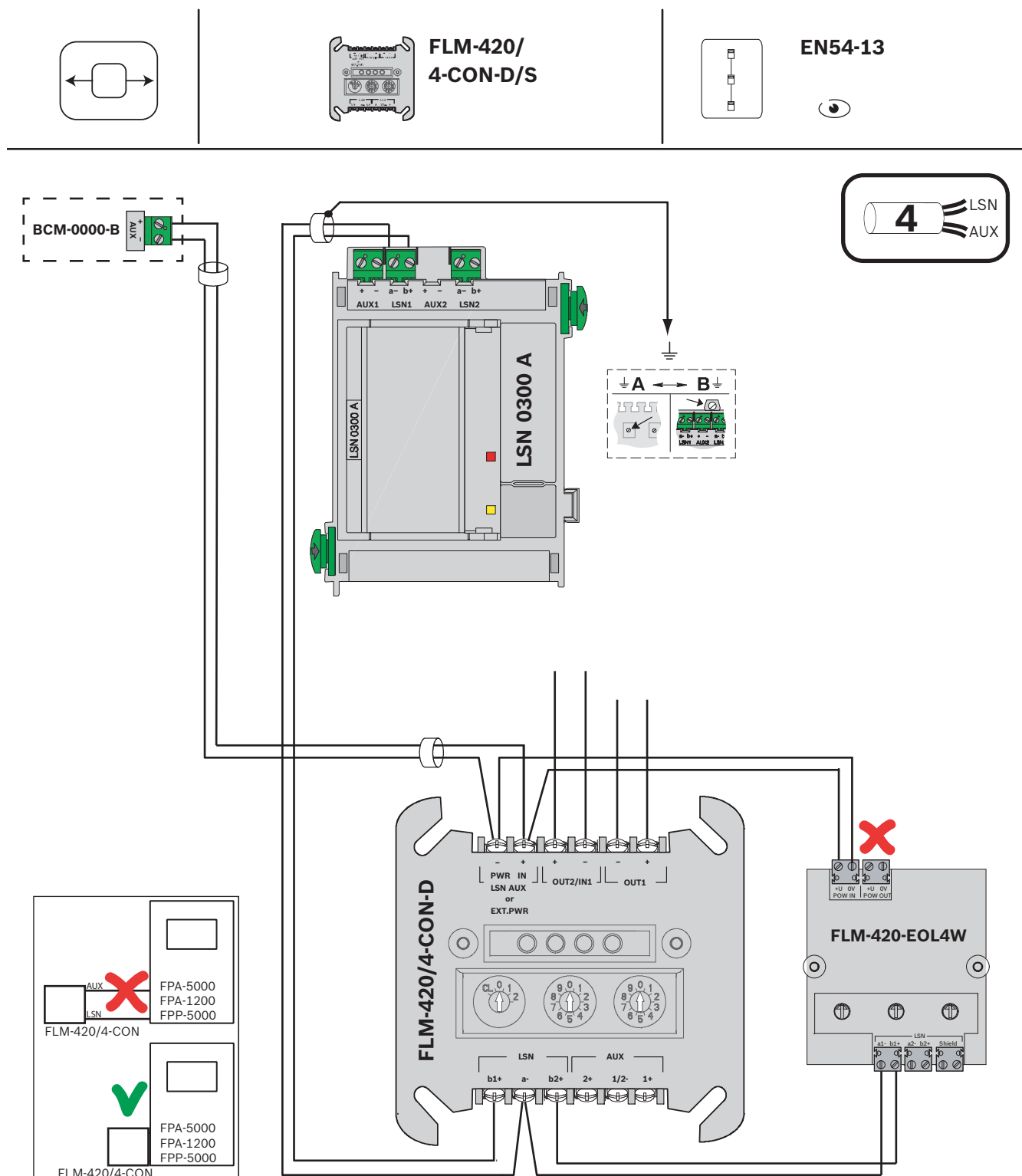
EN 54-13

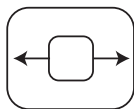




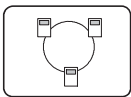




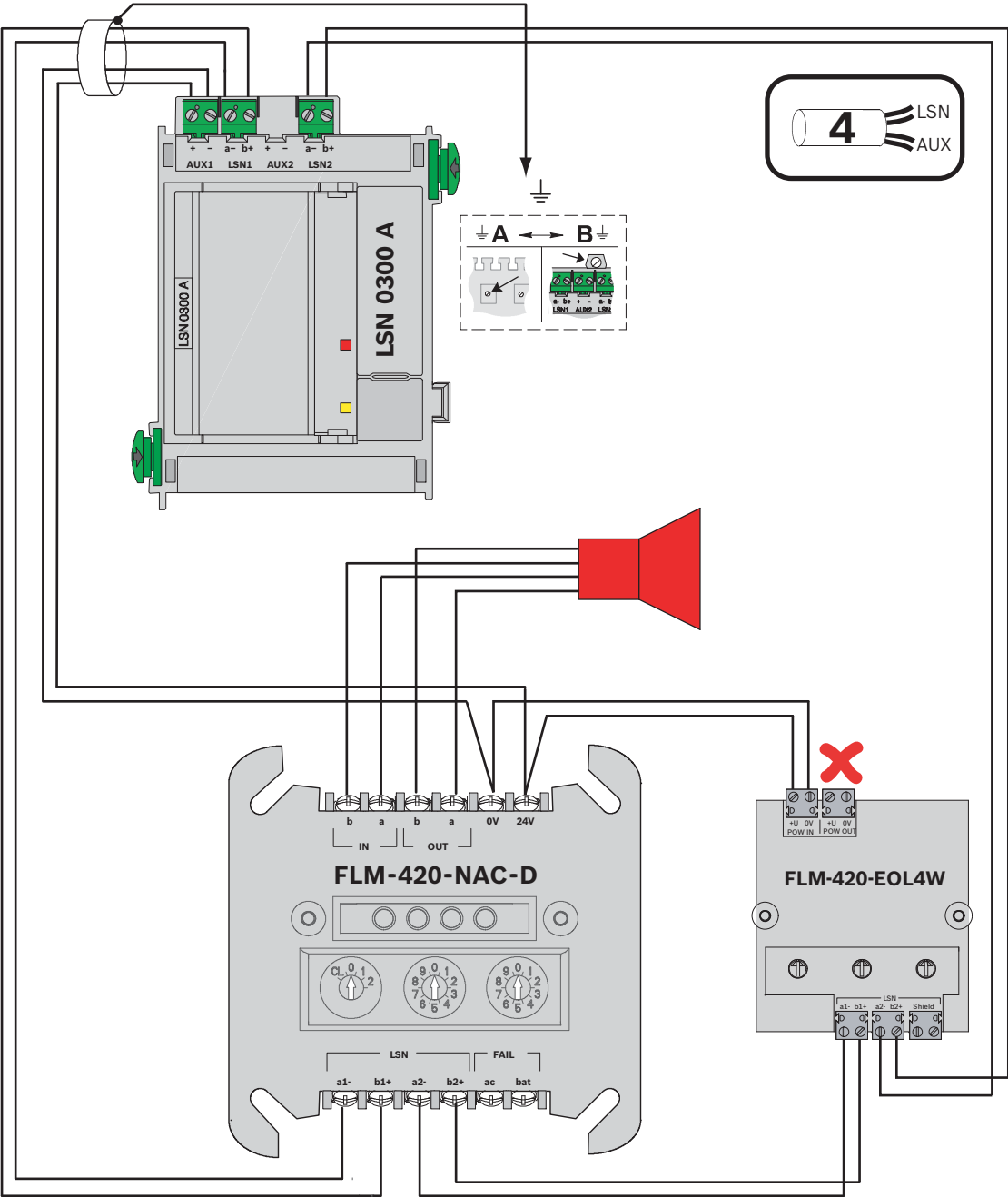


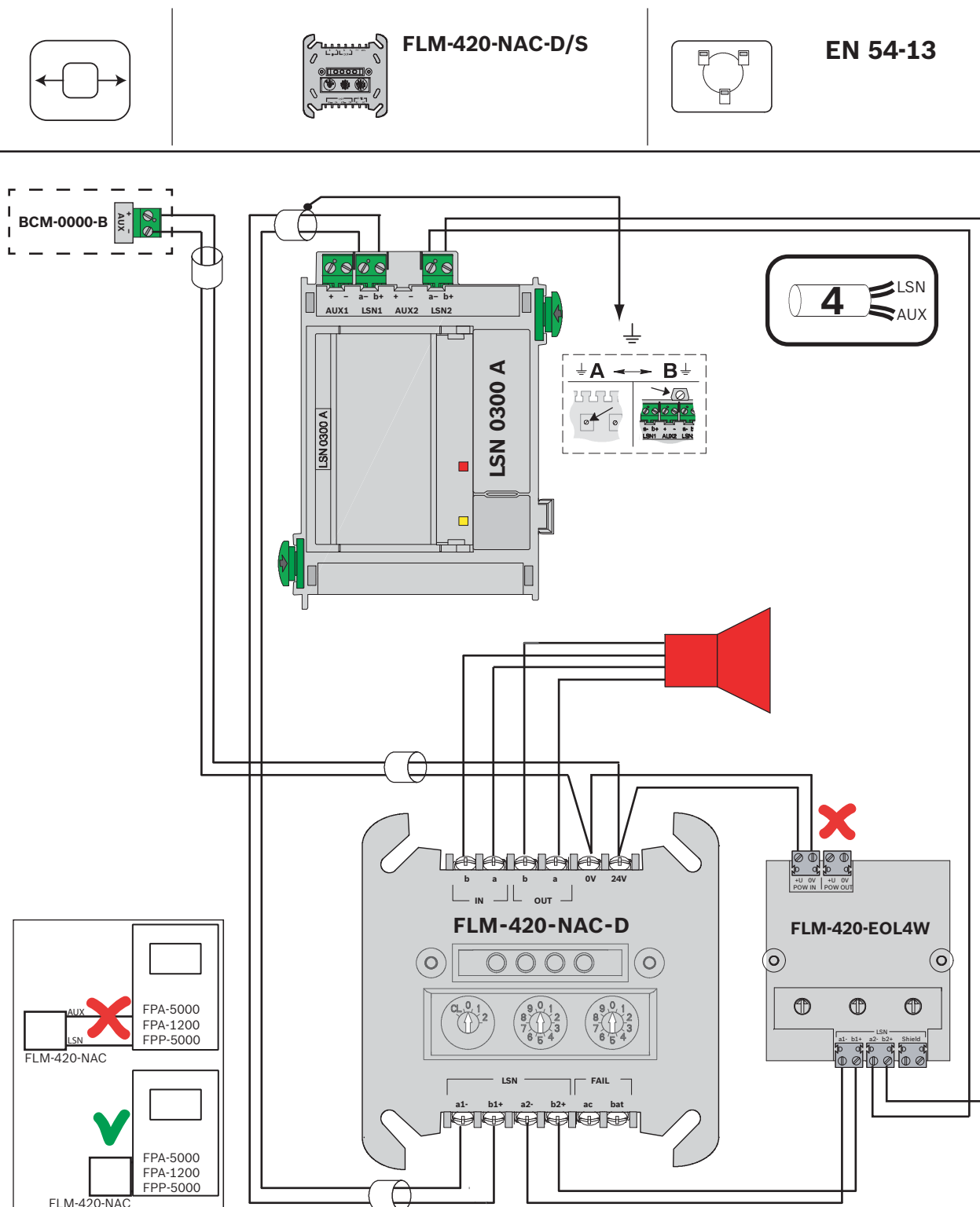


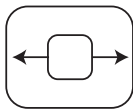
FLM-420-NAC-D/S



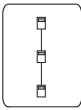
EN 54-2
EN 54-13



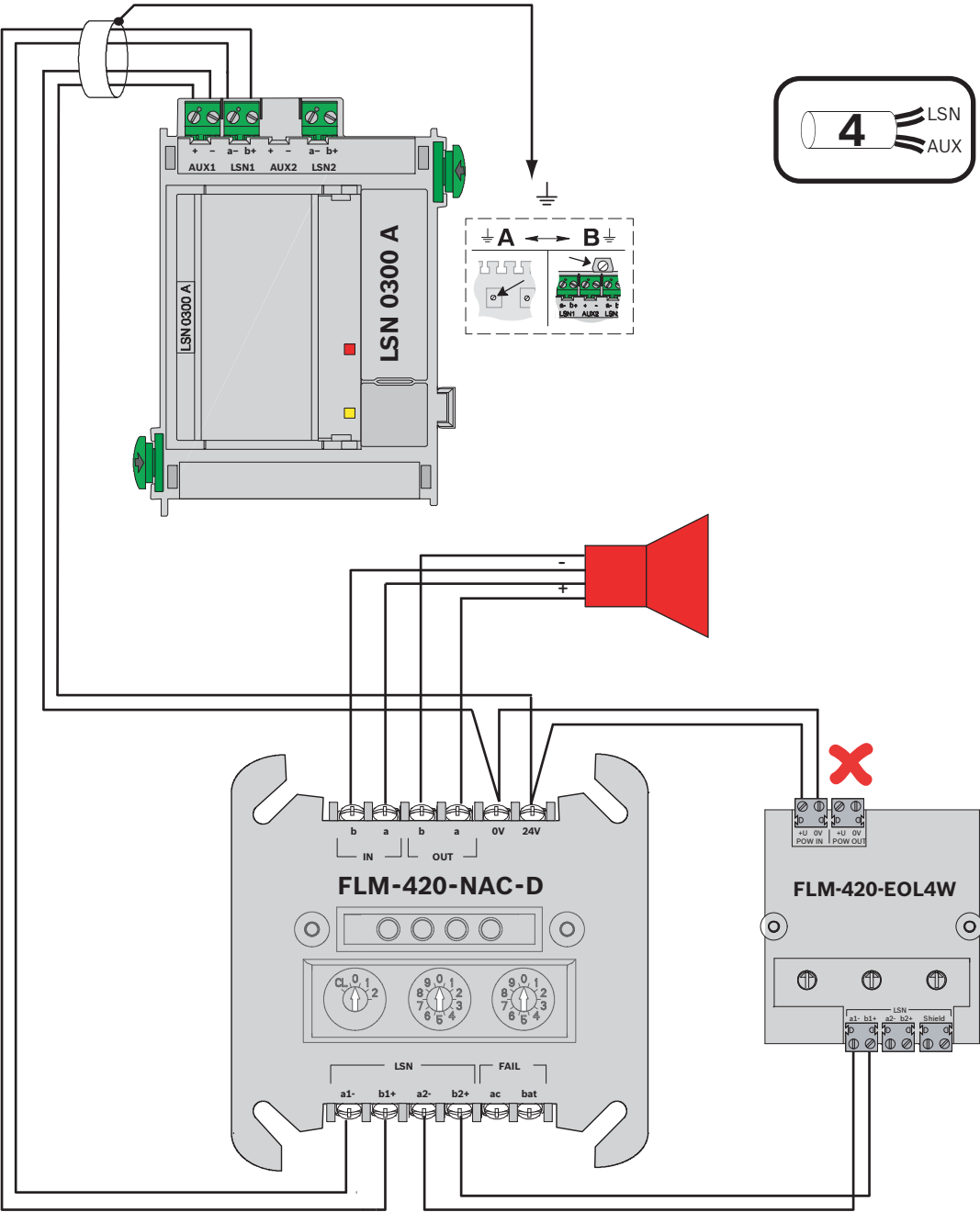


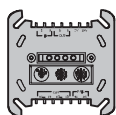
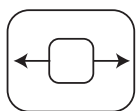


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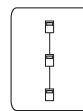


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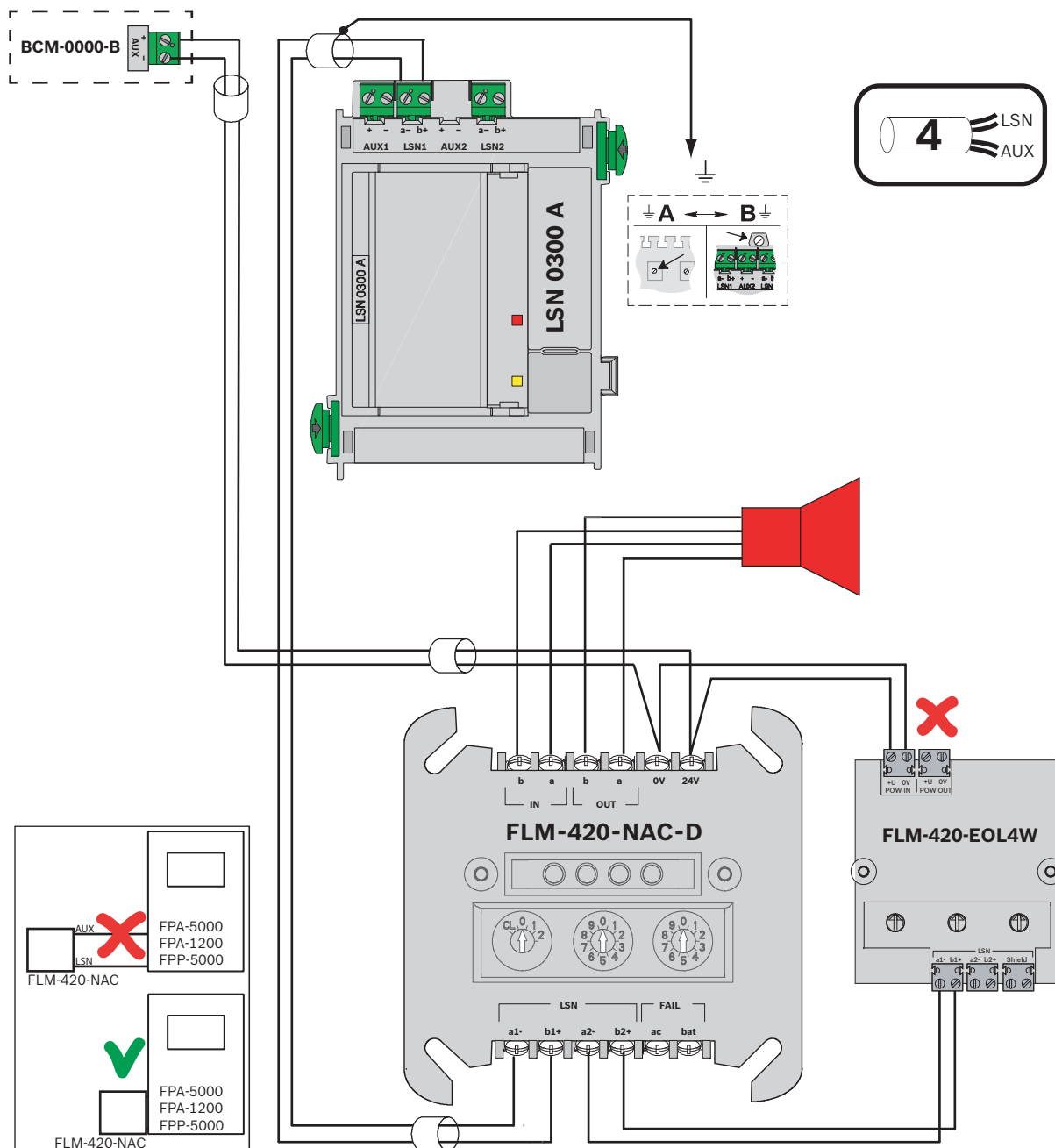


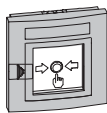
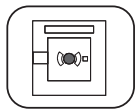


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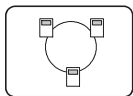


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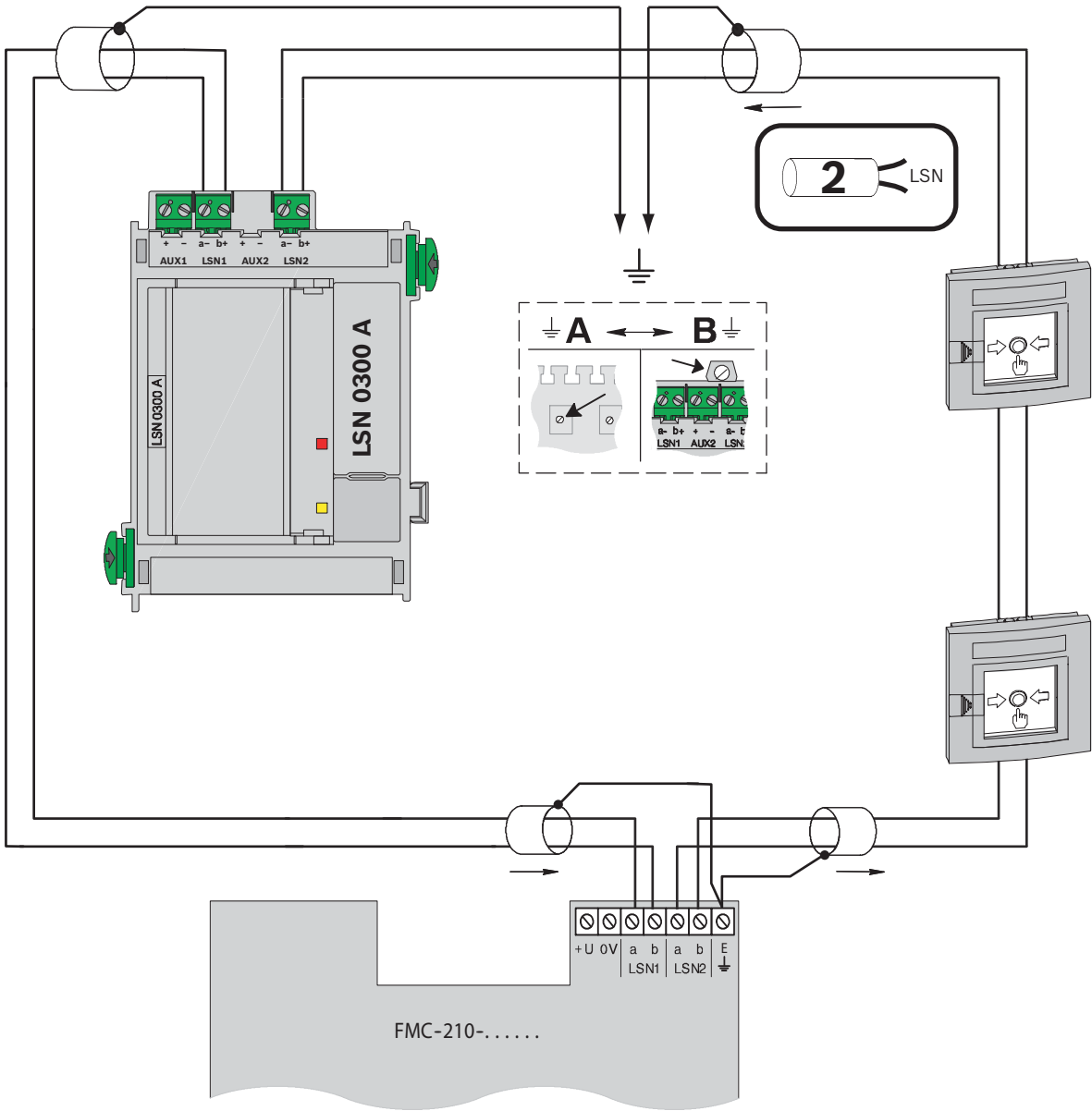


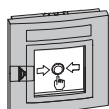
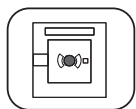


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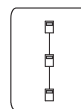


EN54-13

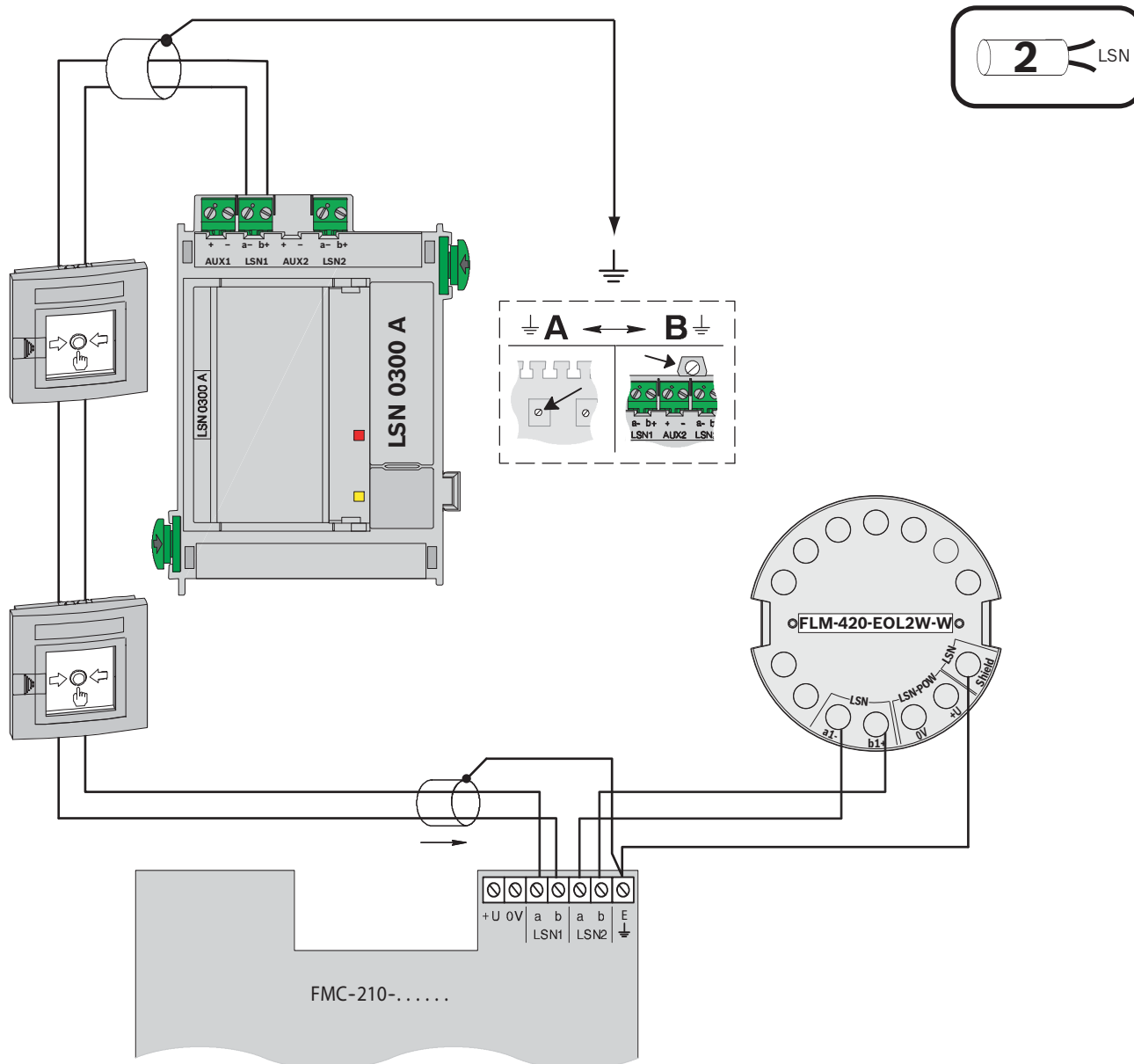


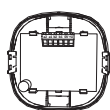


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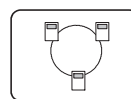


EN54-13

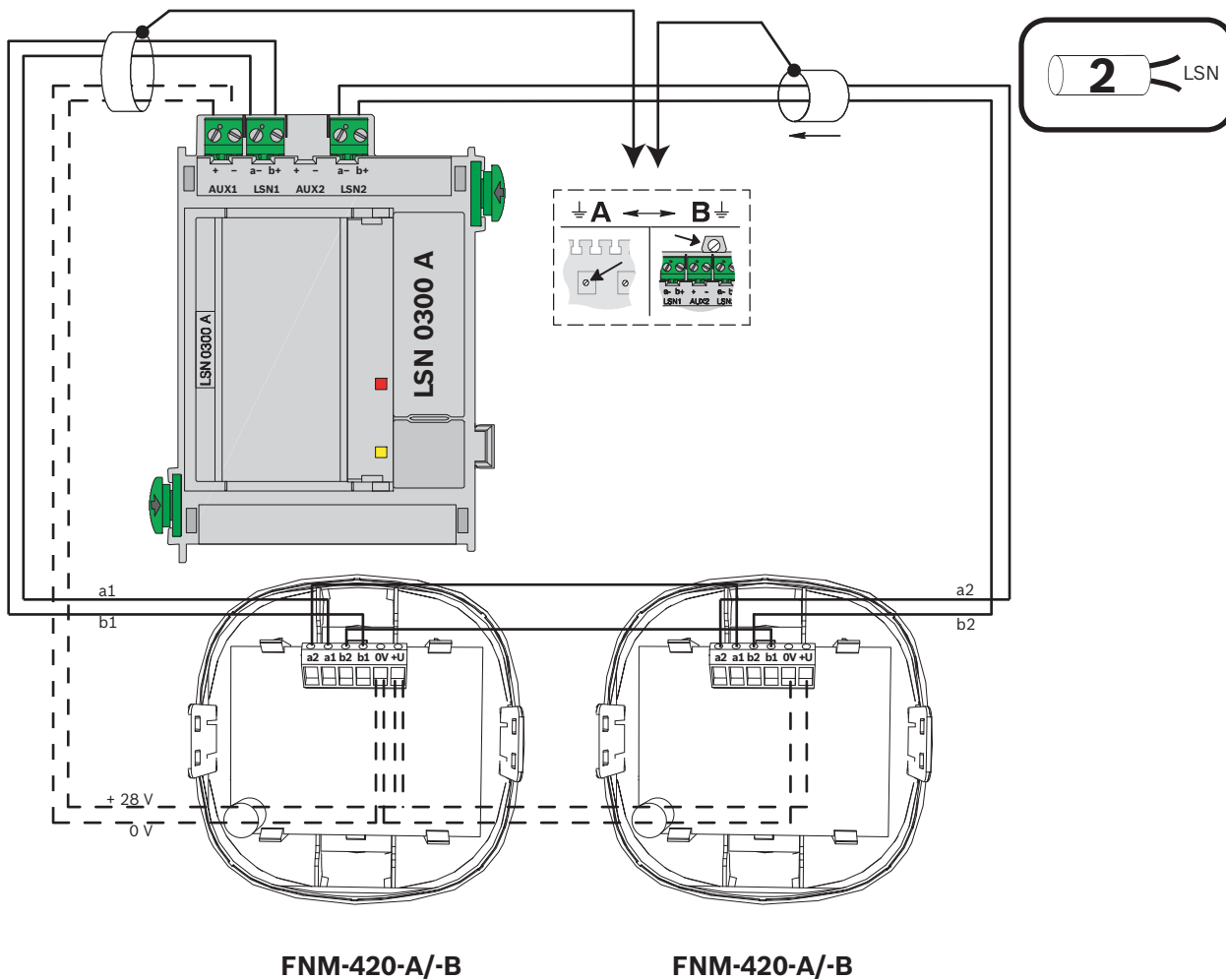


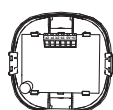


FNM-420-A / -B

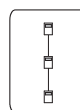


EN 54-13

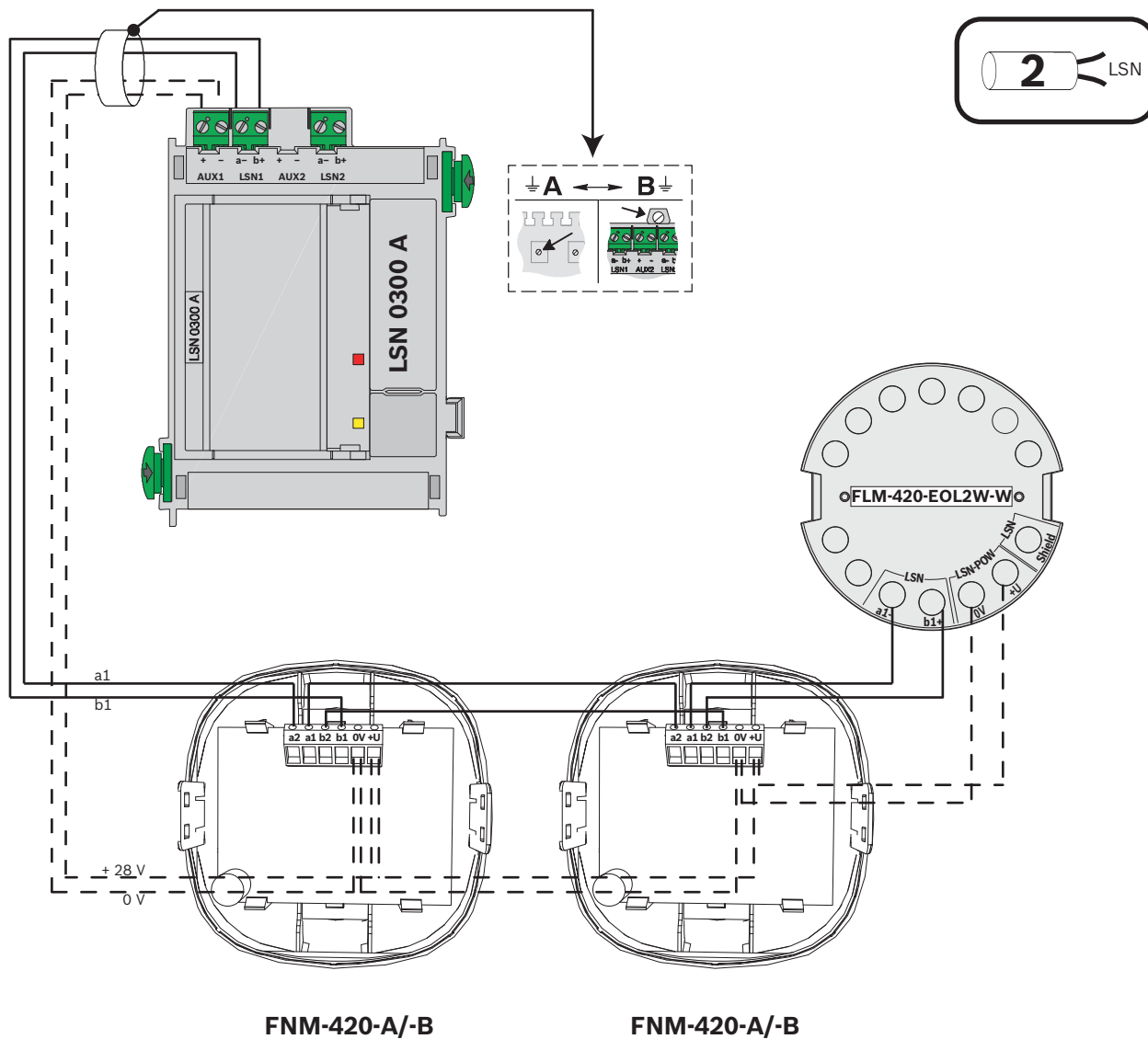




FNM-420-A /-B

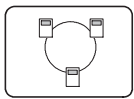


EN 54-13

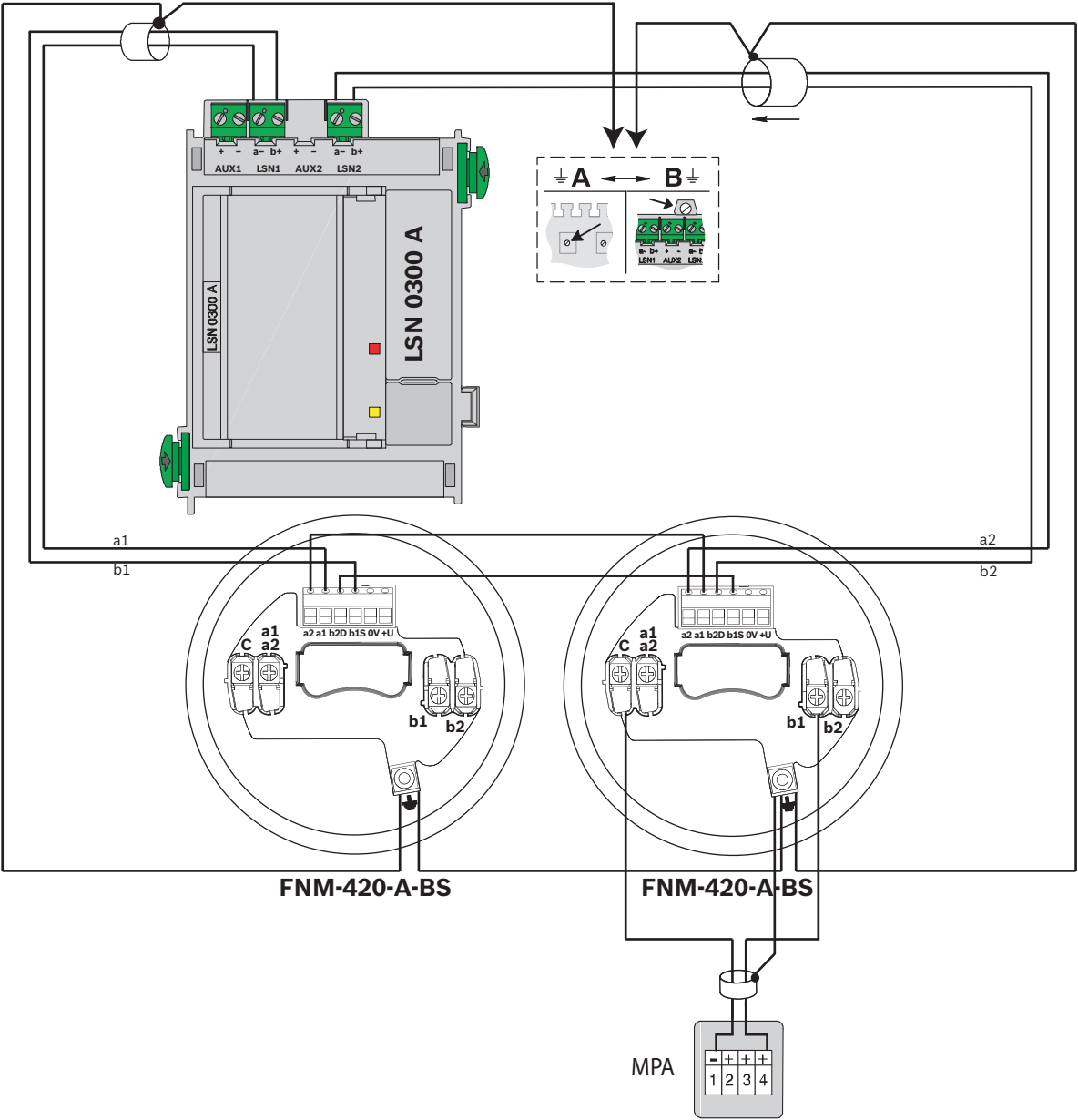
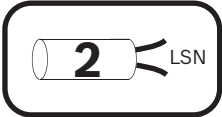


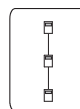
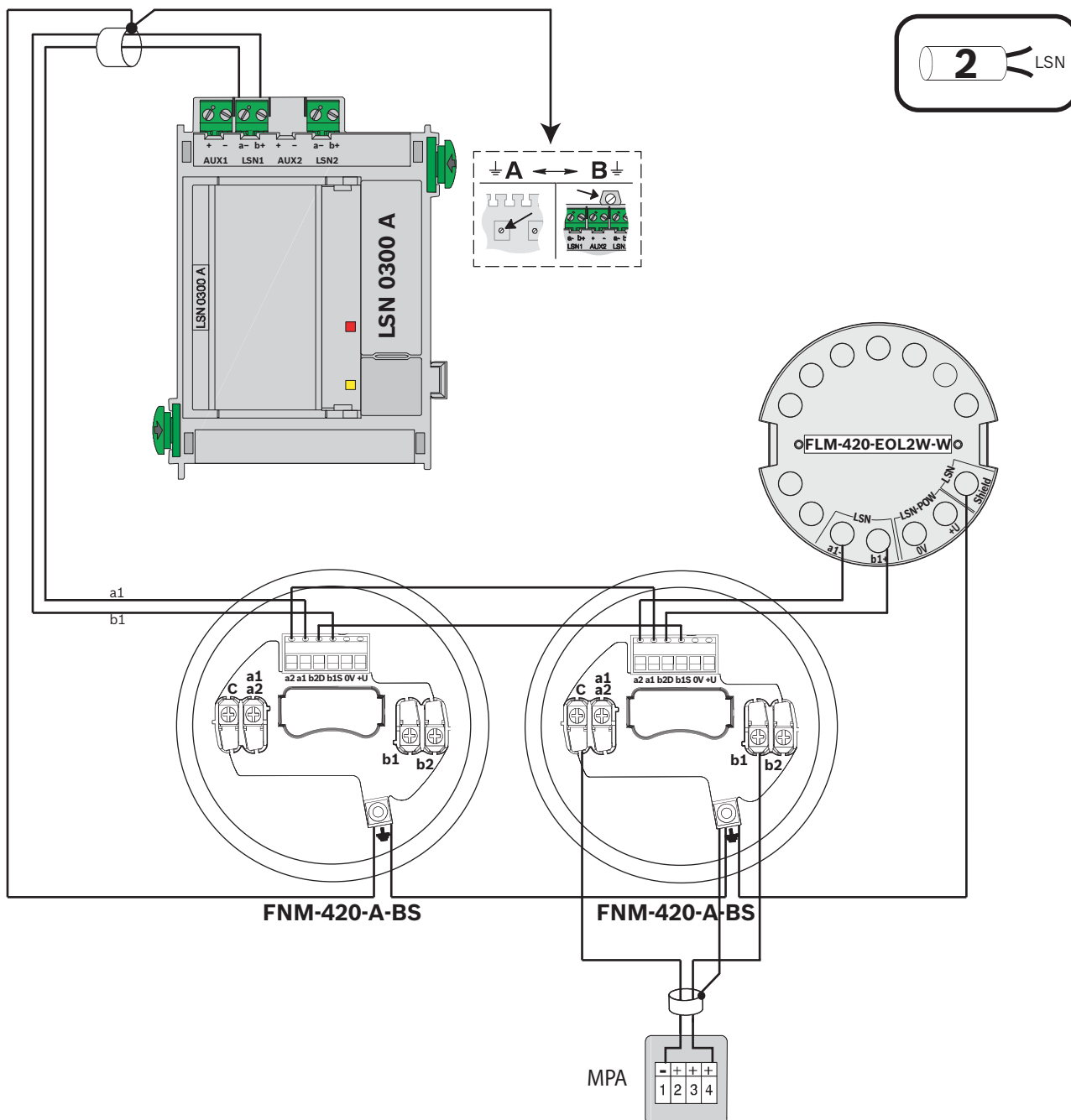


FNM-420-A-BS



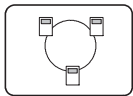
EN 54-13



**FNM-420-A-BS****EN 54-13**

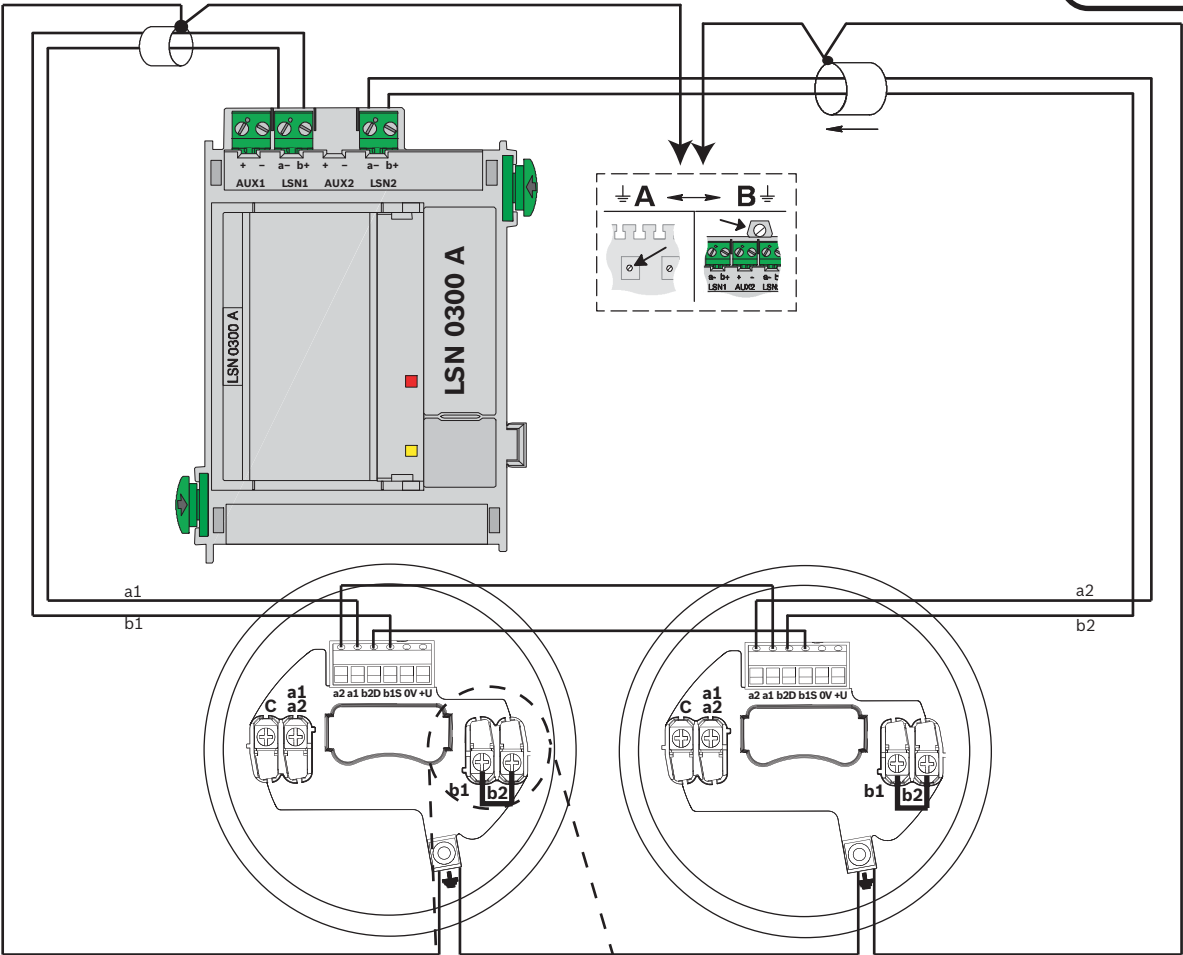


FNM-420-A-BS



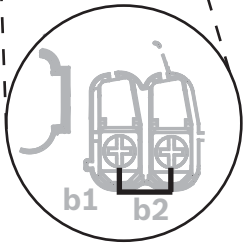
EN 54-13

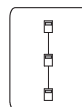
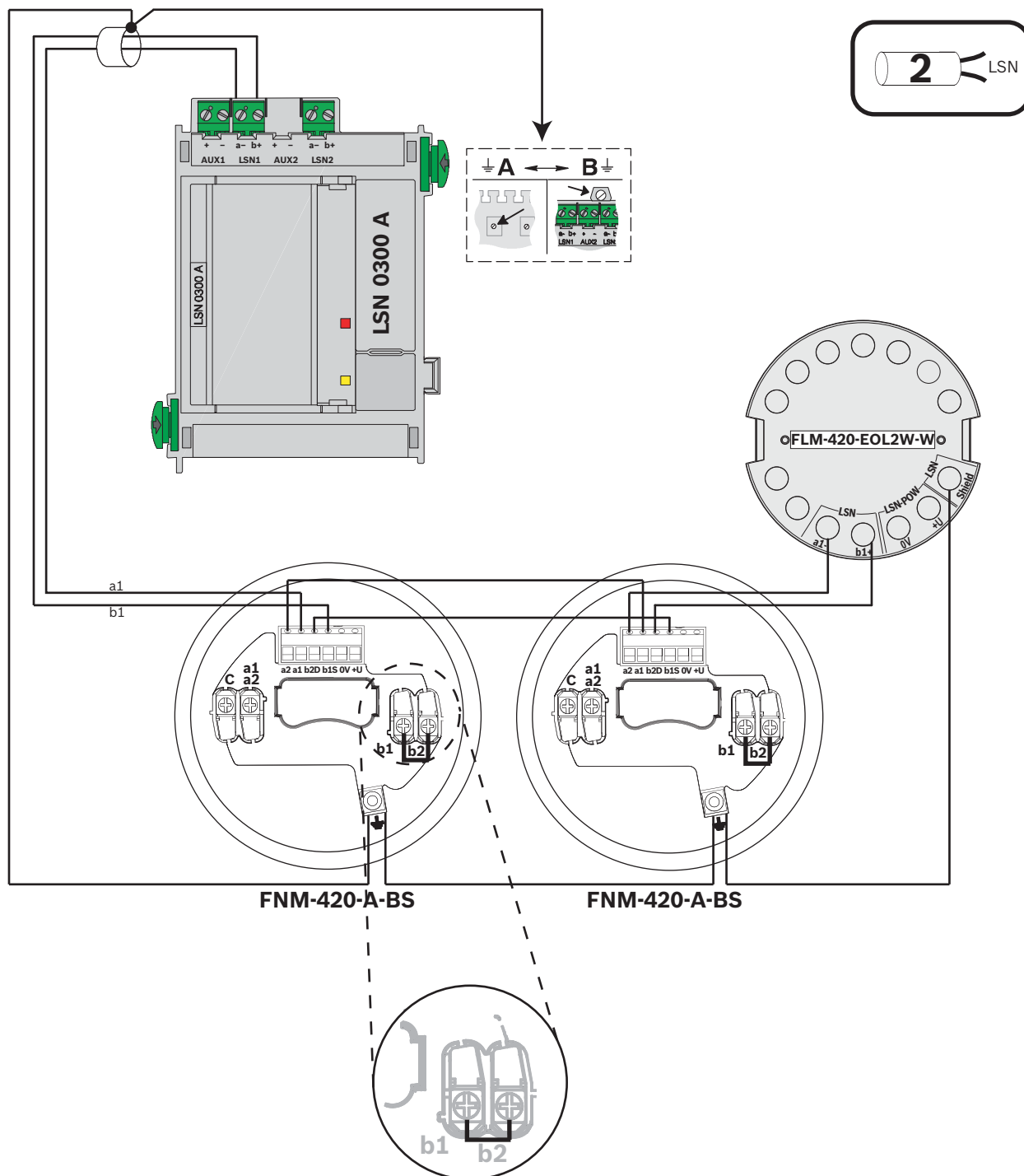
2 LSN



FNM-420-A-BS

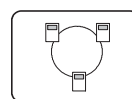
FNM-420-A-BS



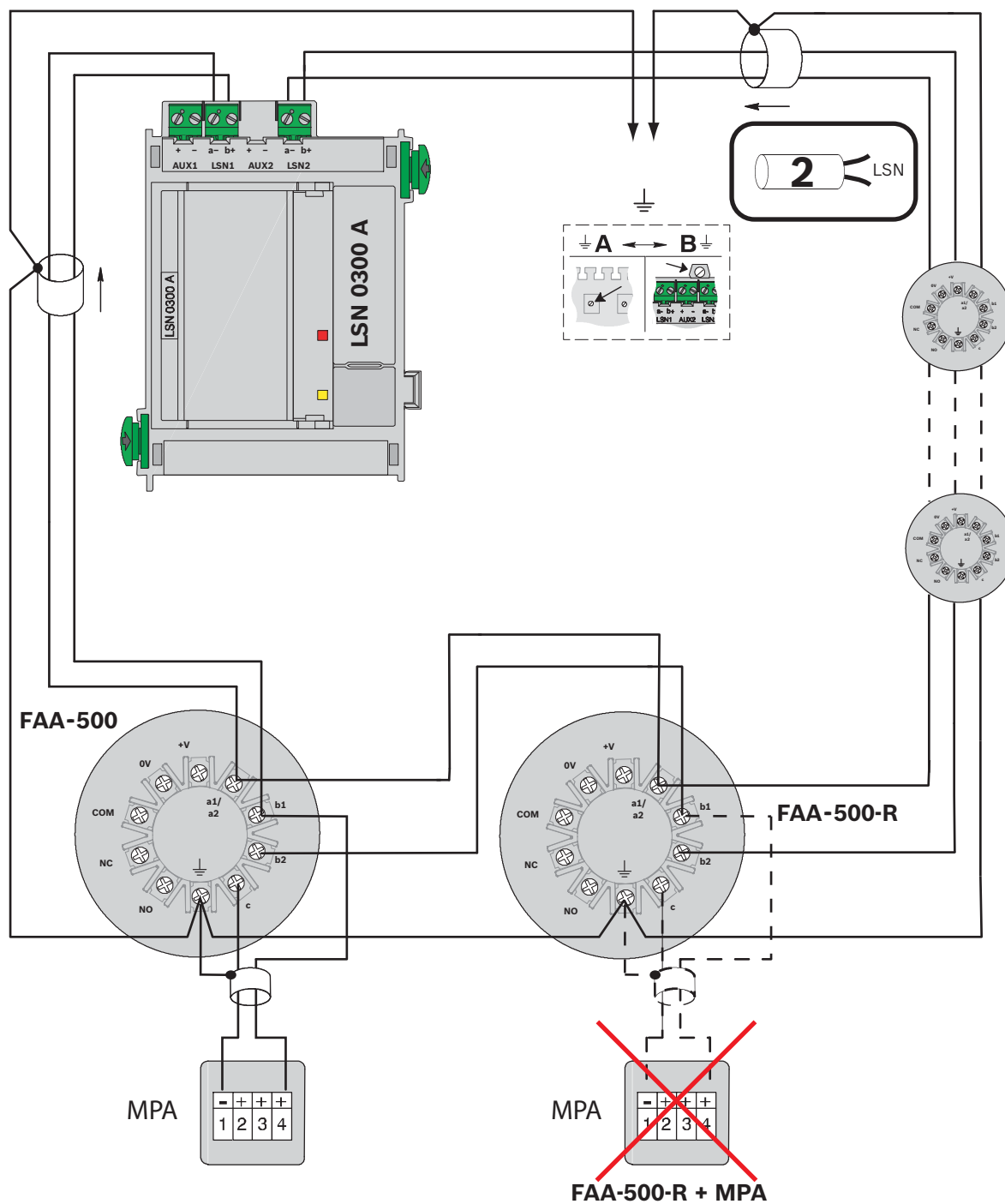
**FNM-420-A-BS****EN 54-13**

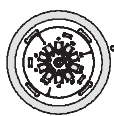


FAA-500
FAA-500-R

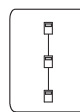


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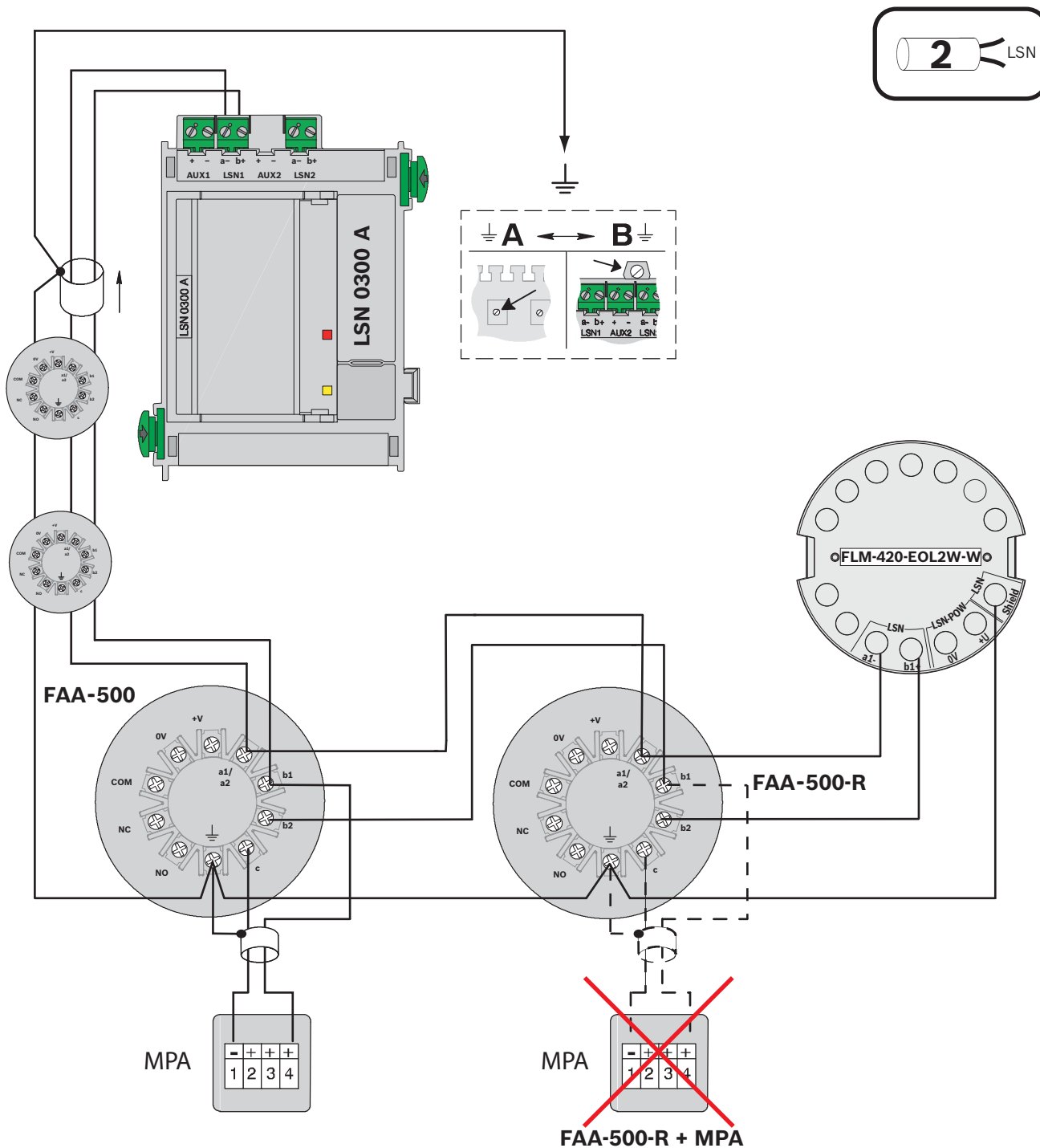


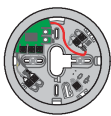


FAA-500
FAA-500-R

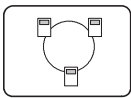


EN54-13

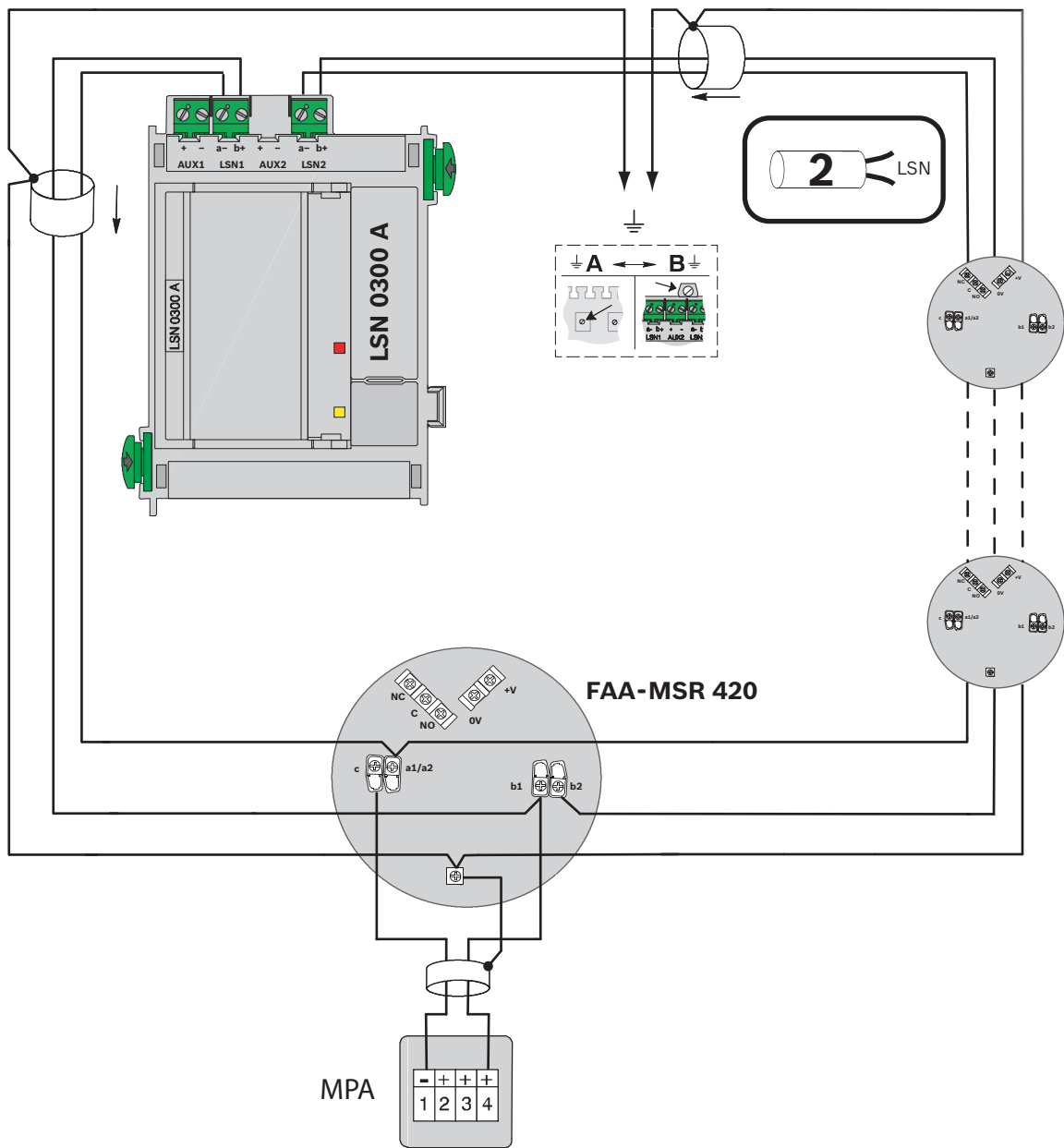


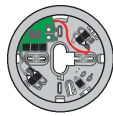
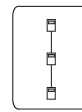
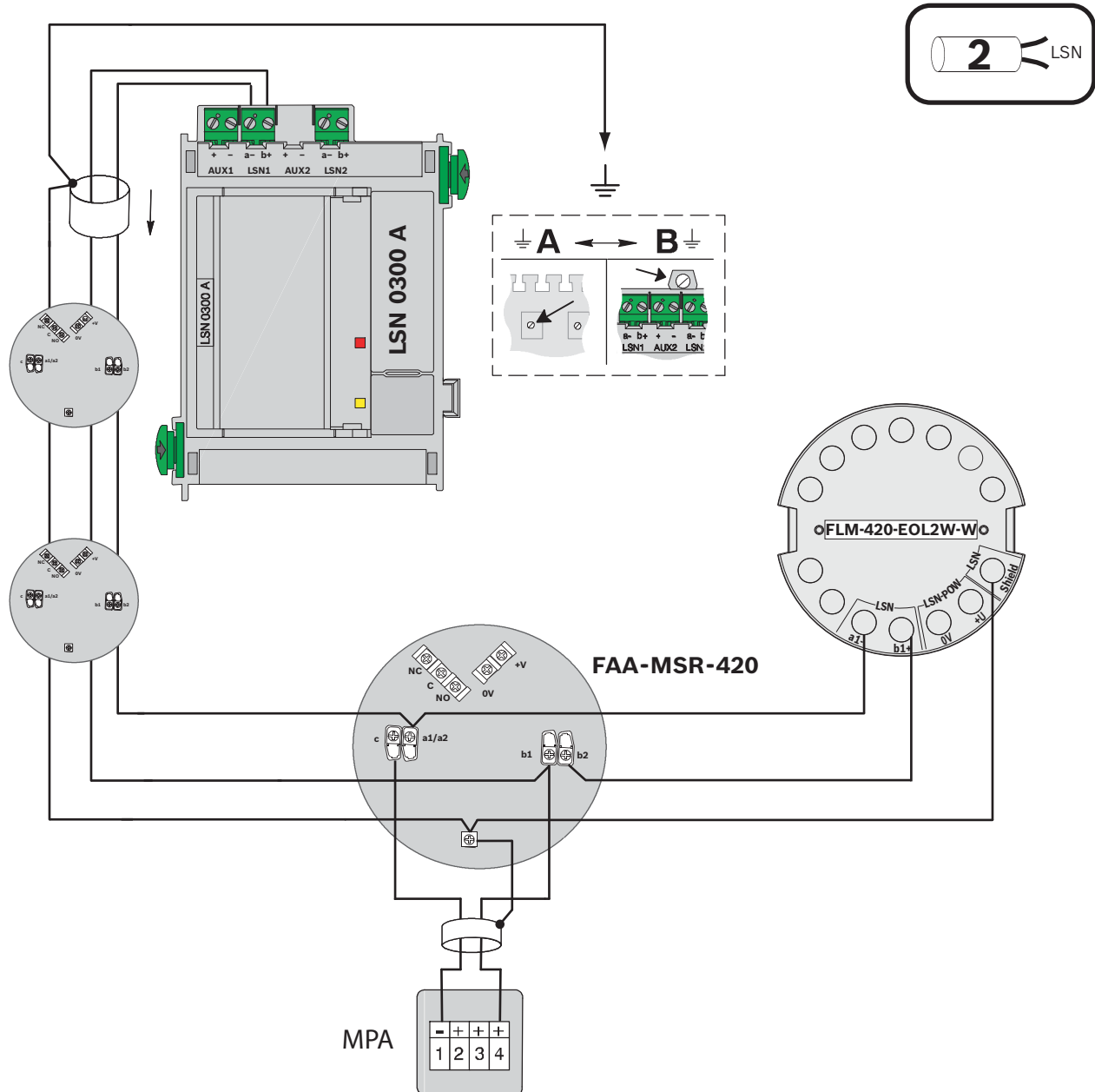


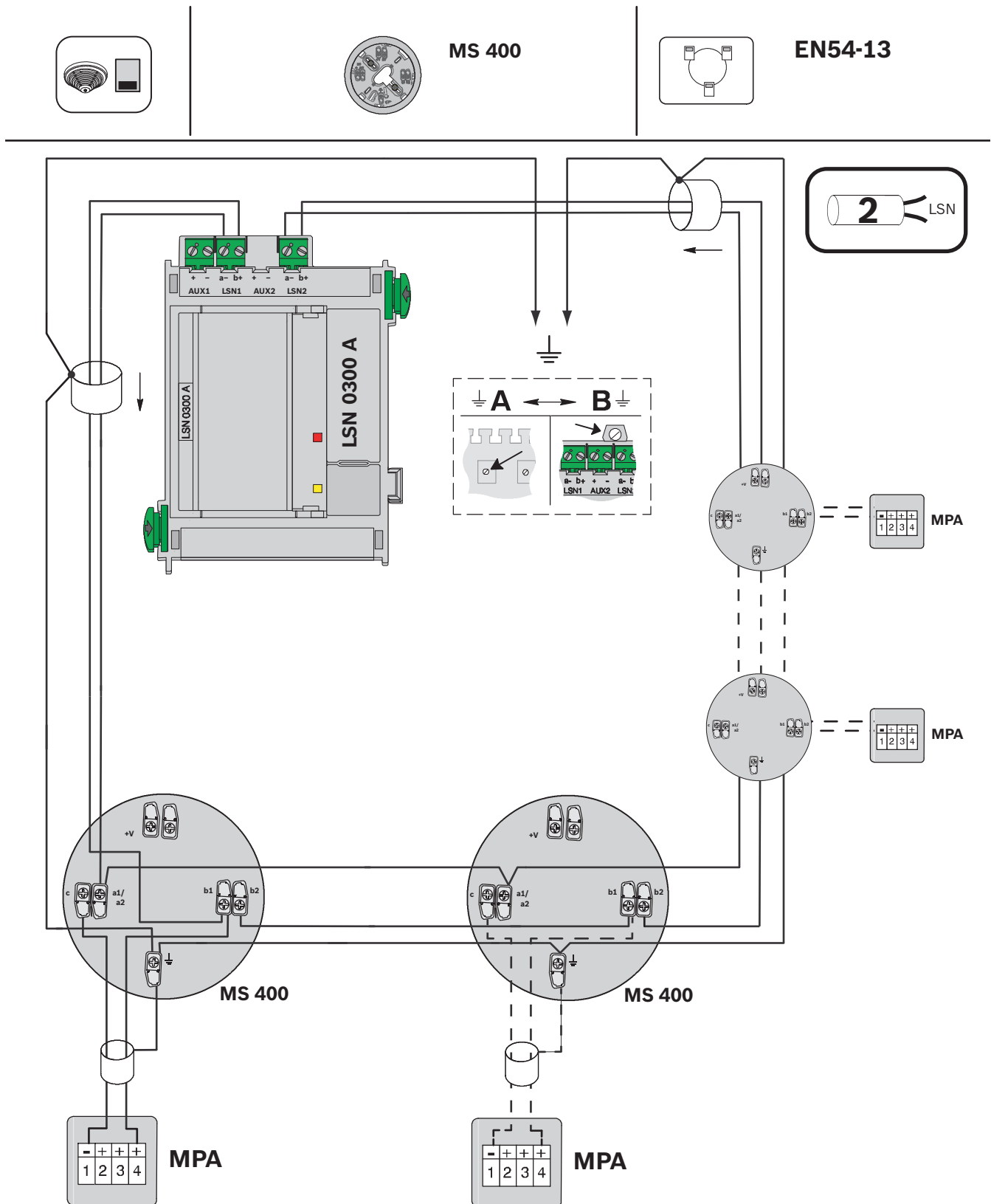
FAA-MSR 420



EN54-13

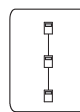


**FAA-MSR 420****EN54-13**

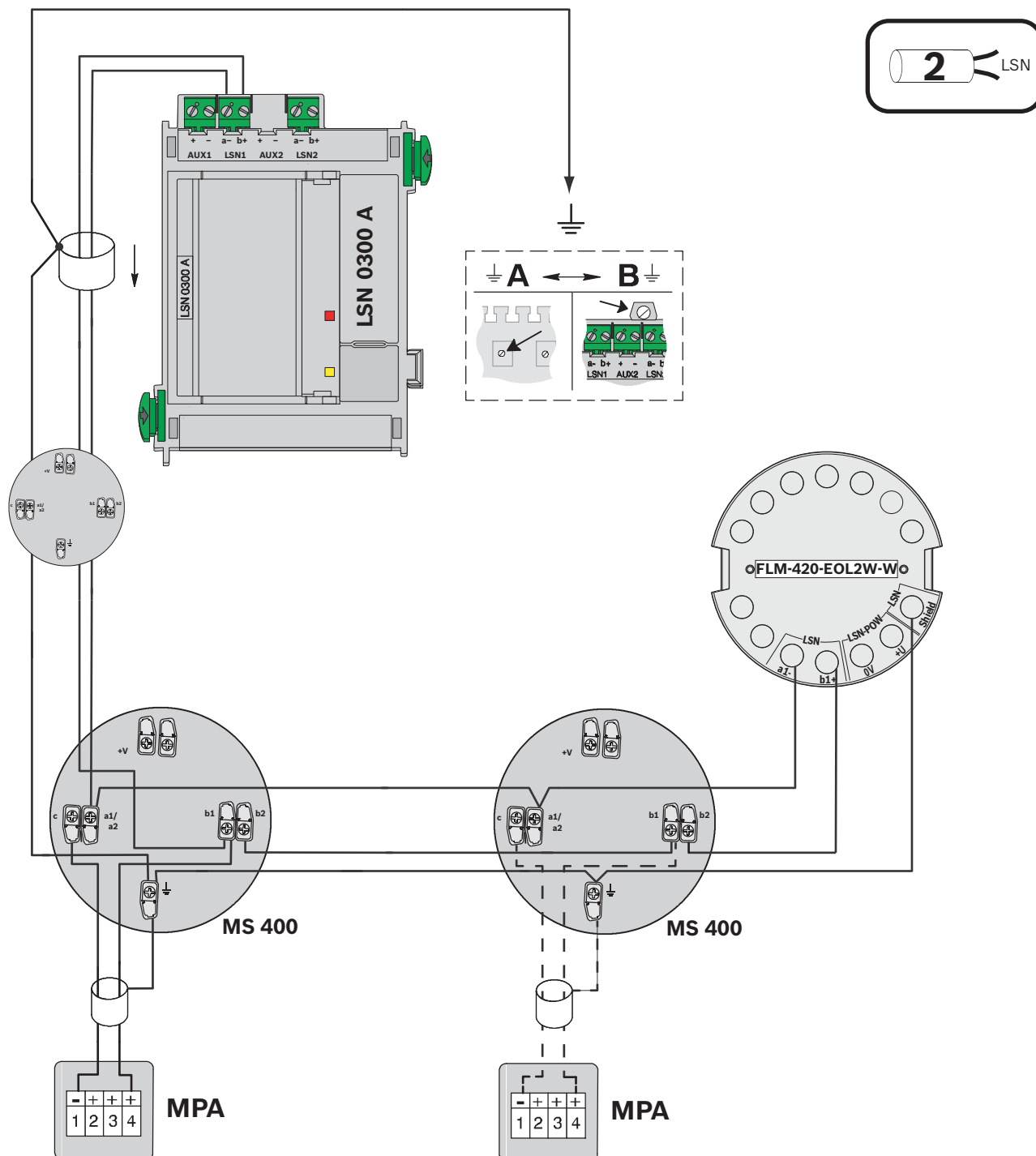


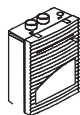


MS 400

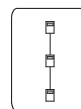


EN54-13

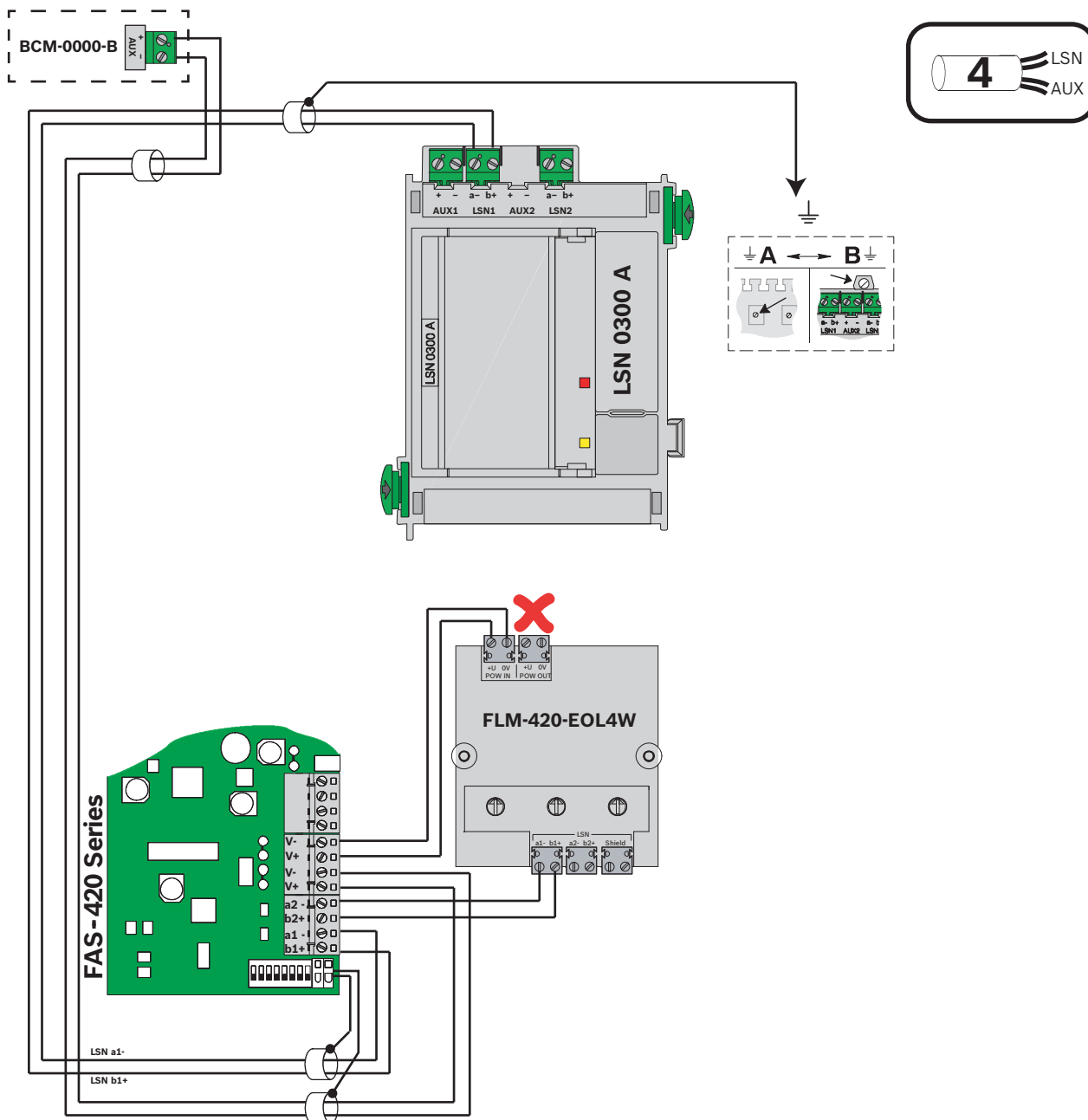


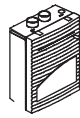


FAS-420 Series

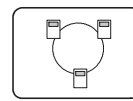


EN54-13

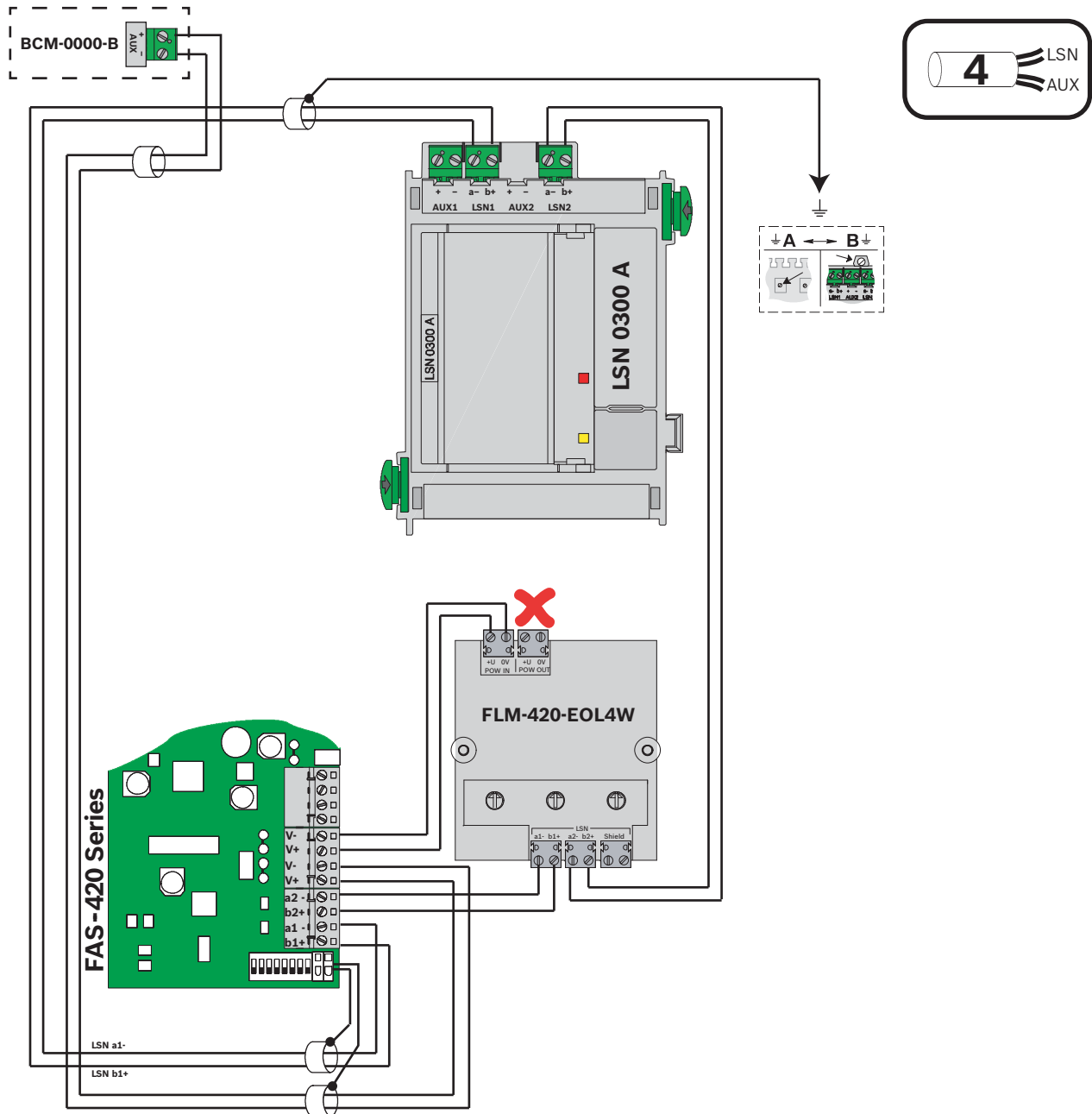


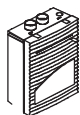


FAS-420 Series

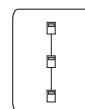


EN54-13

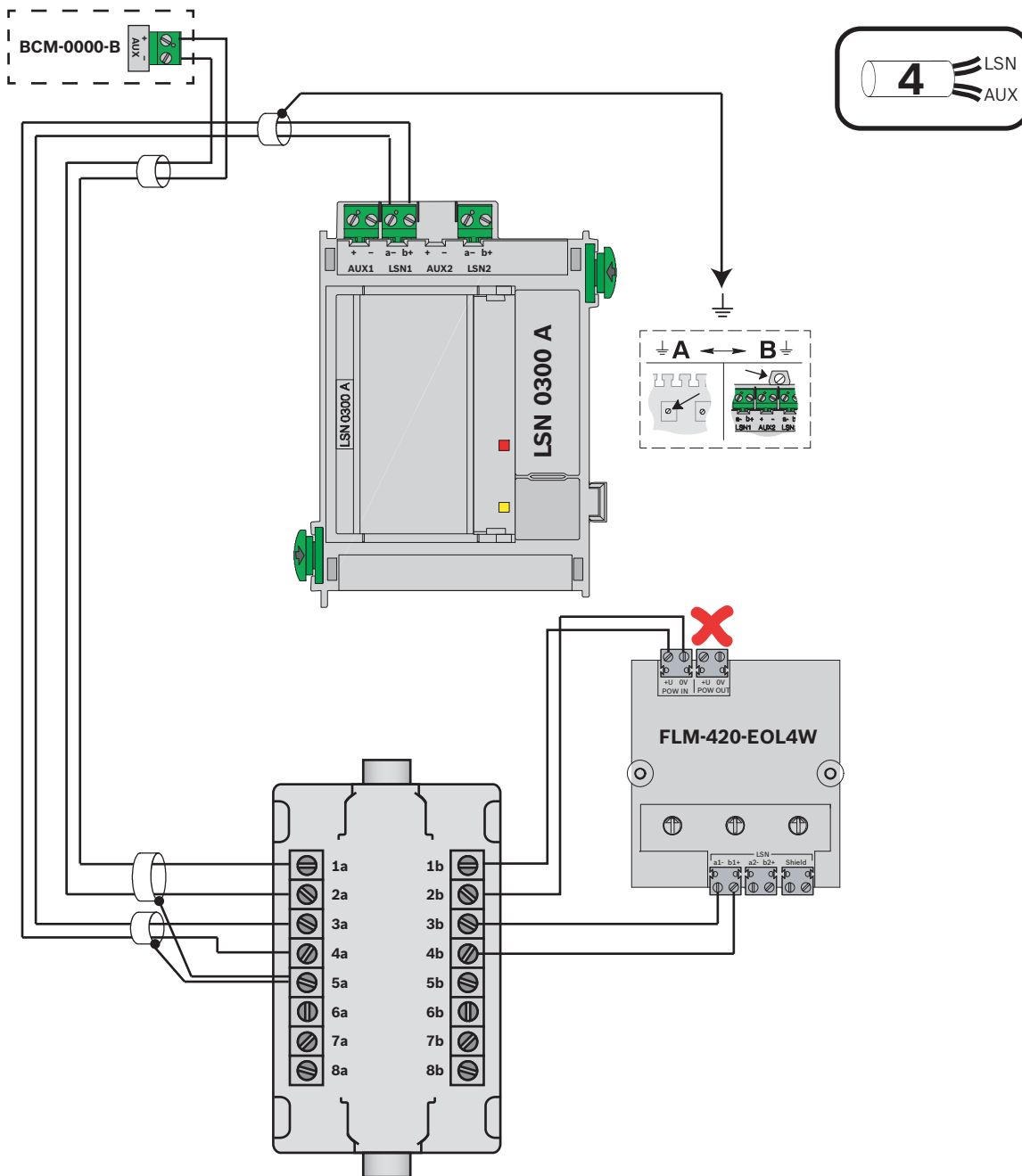


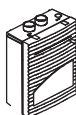


FAS-420-TM Series

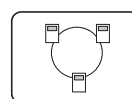
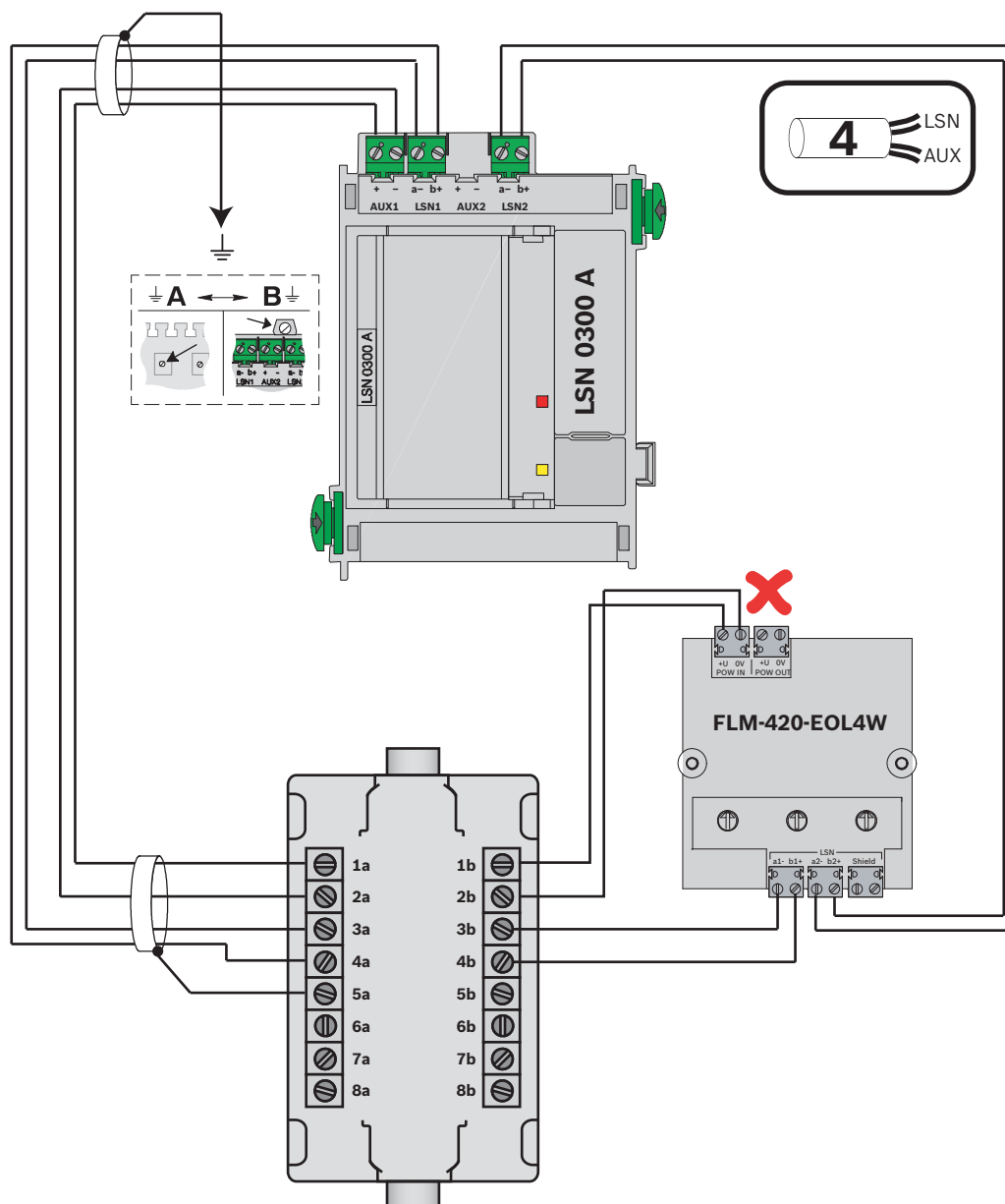


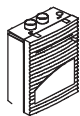
EN54-13



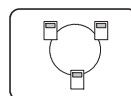


FAS-420-TM Series

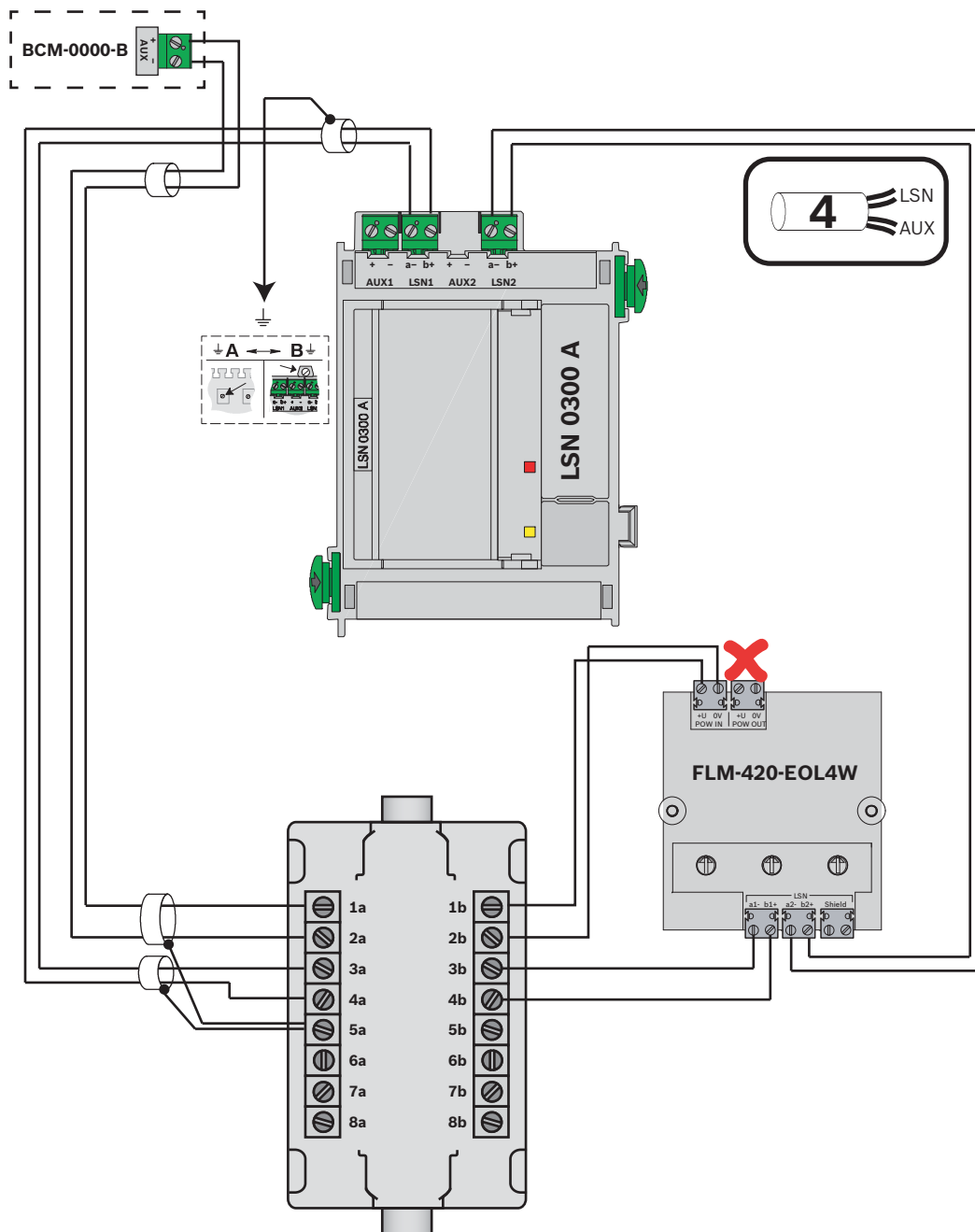
**EN54-13**



FAS-420-TM Series

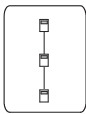


EN54-13

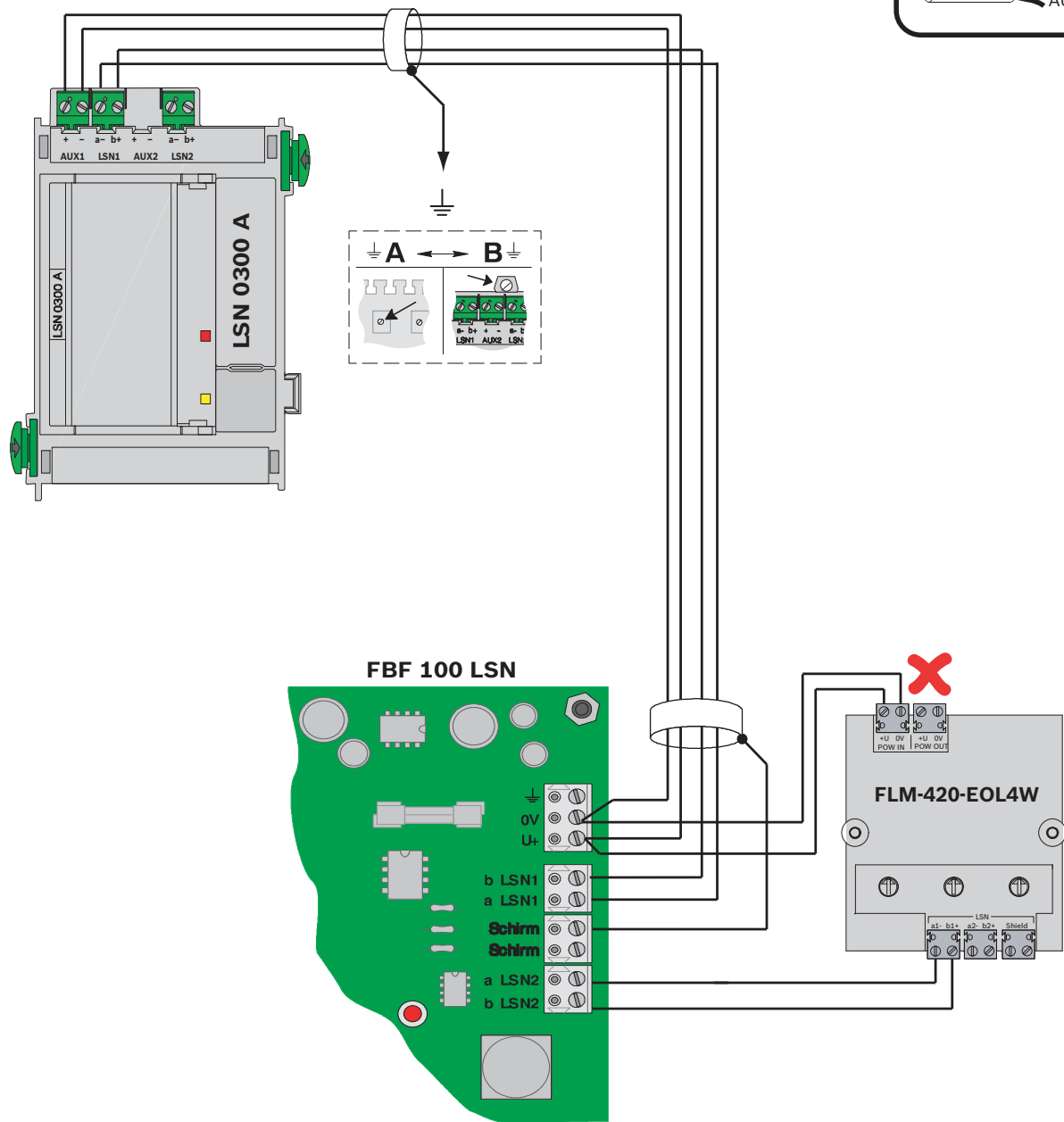


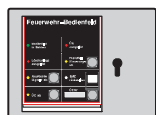


FBF 100 LSN

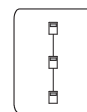


EN54-13

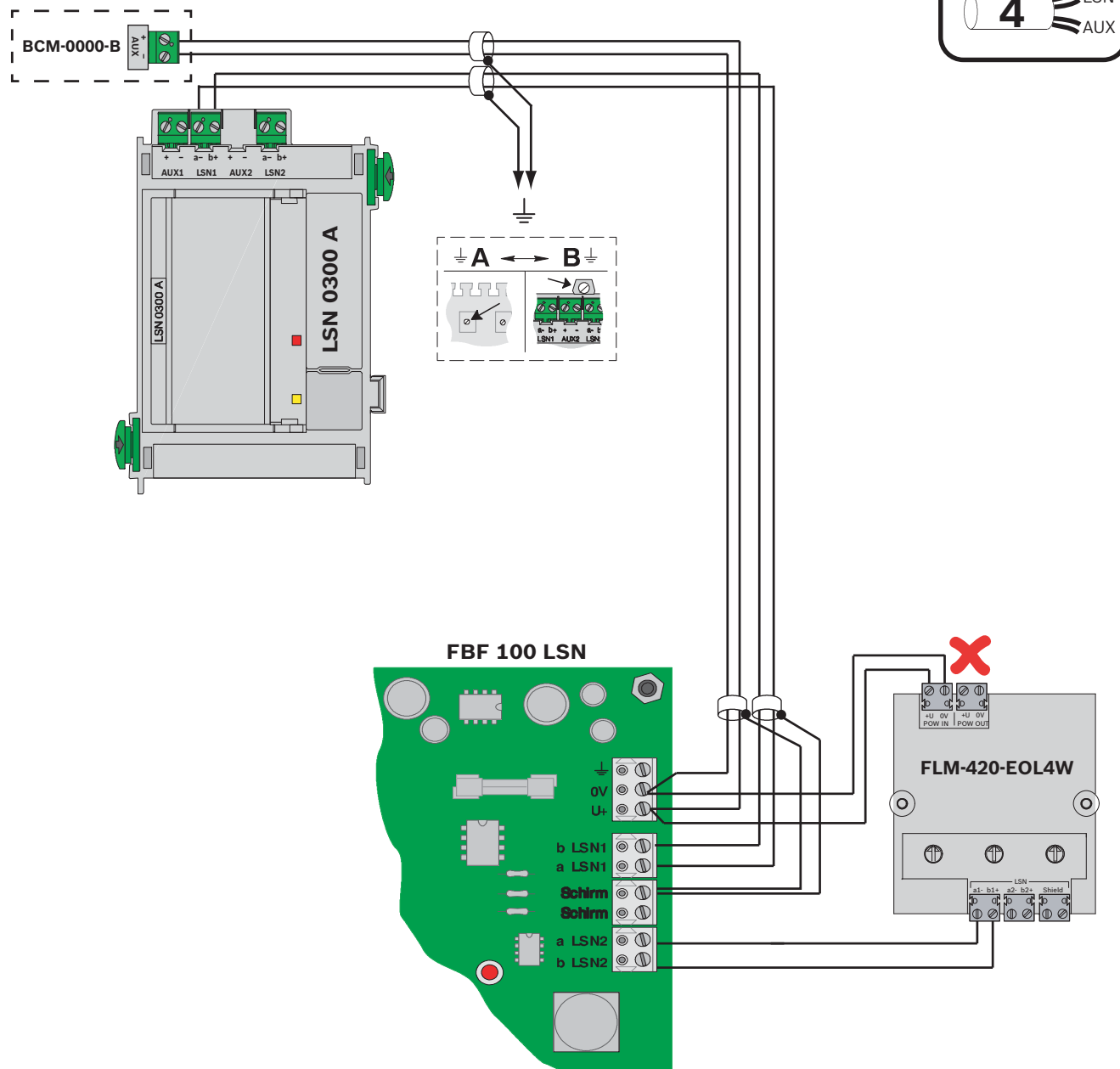




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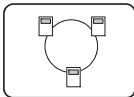


EN54-13

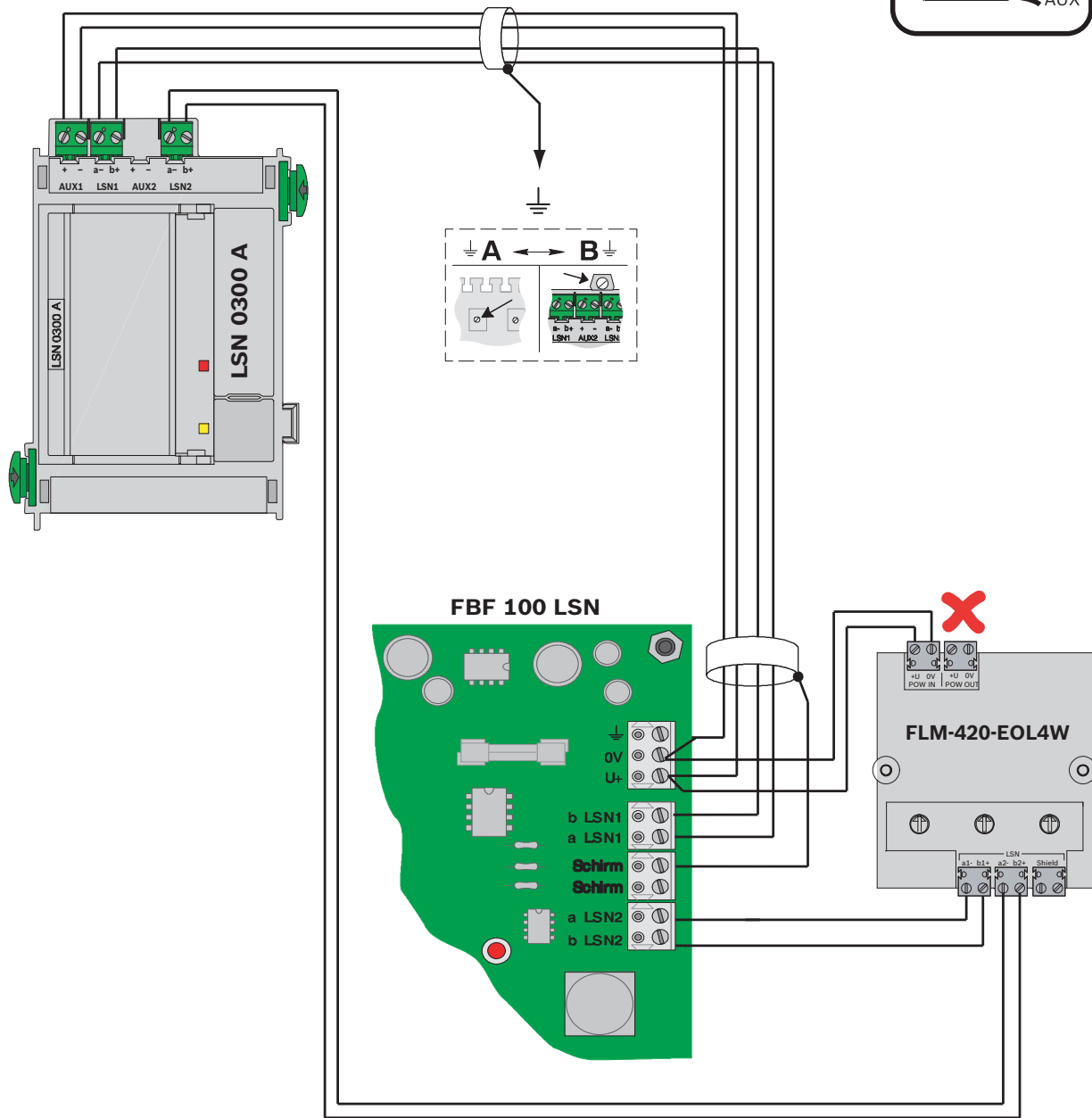


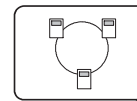
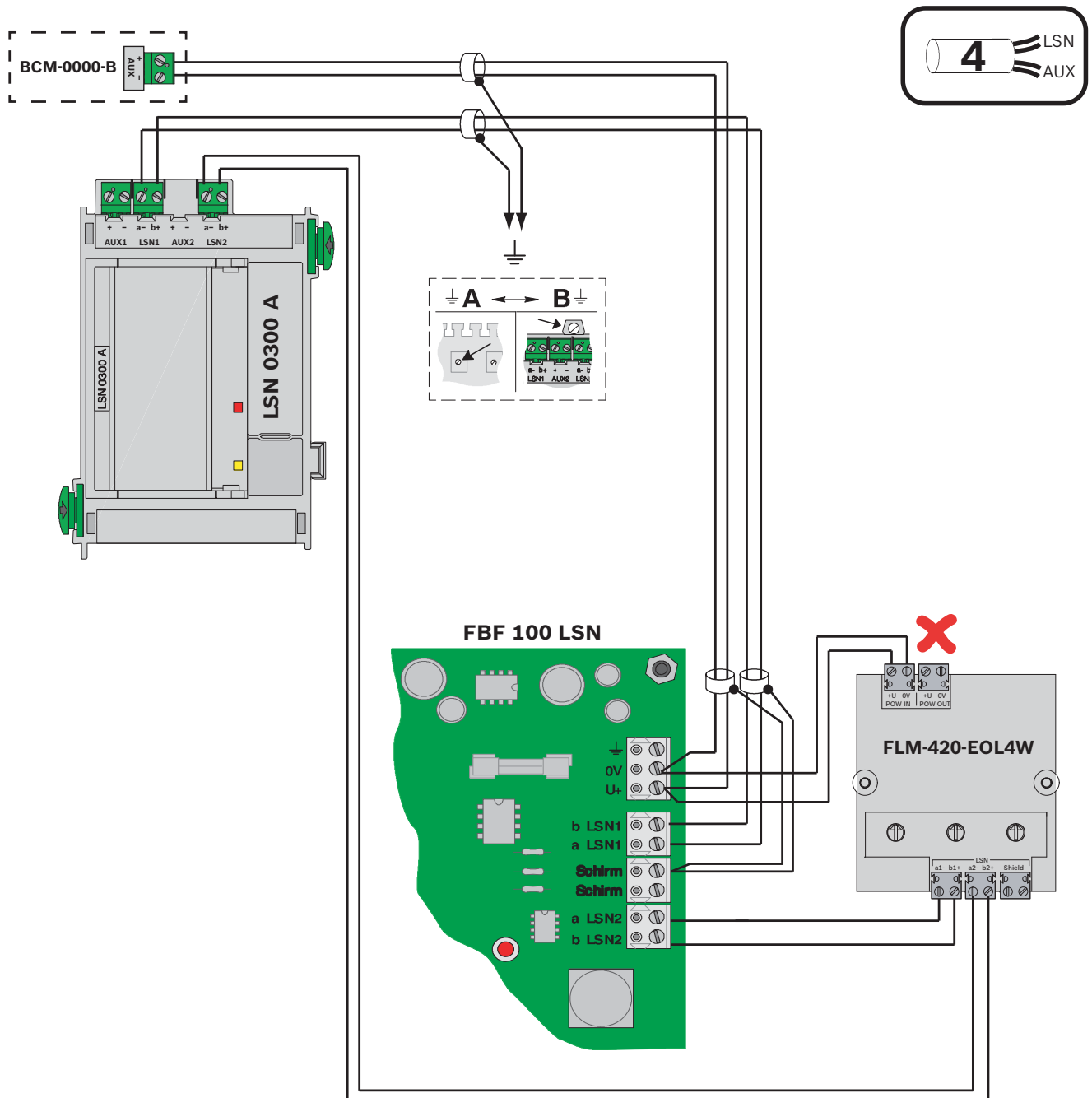


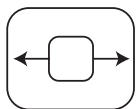
FBF 100 LSN



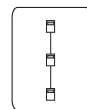
EN54-13



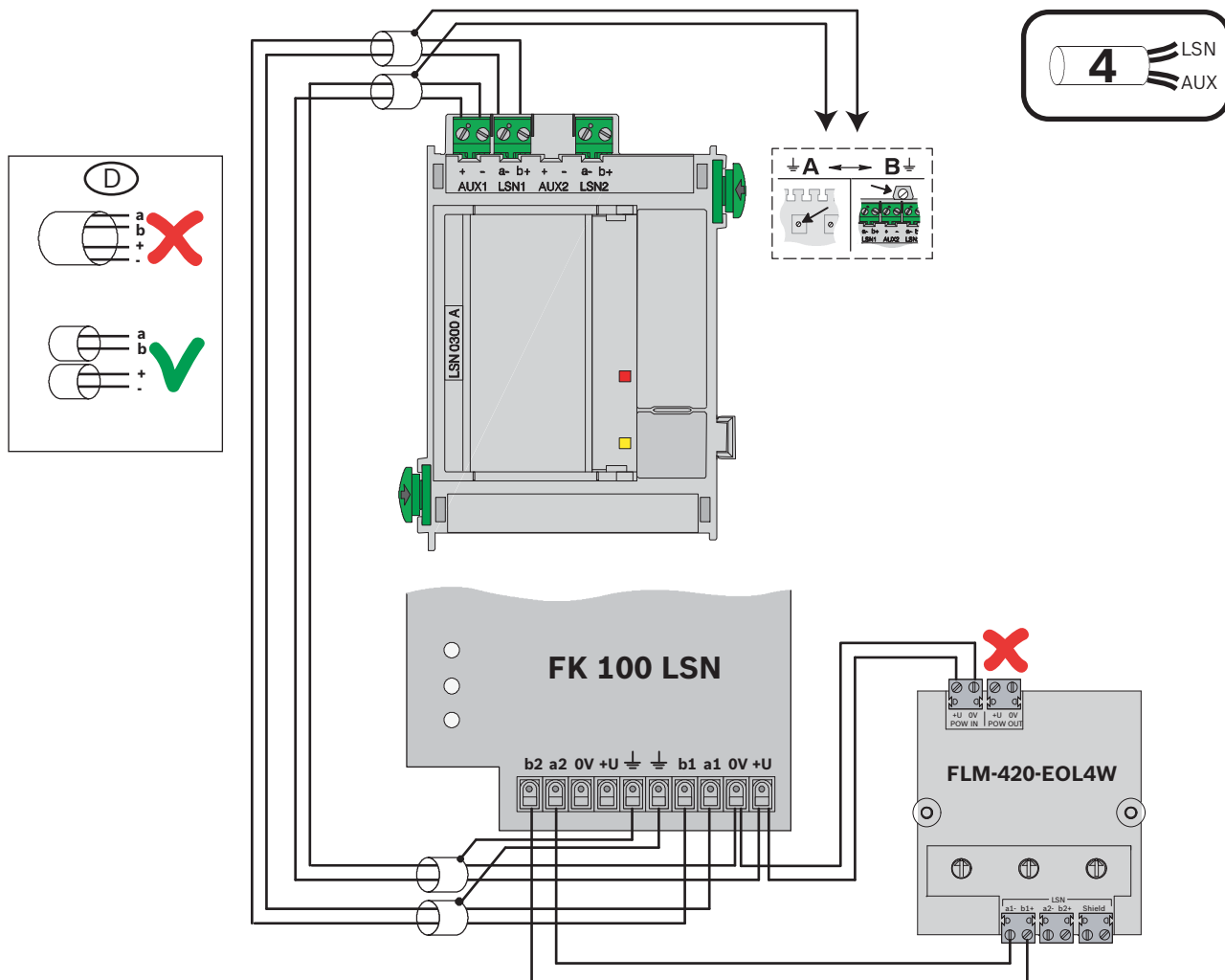
**FBF 100 LSN****EN54-13**

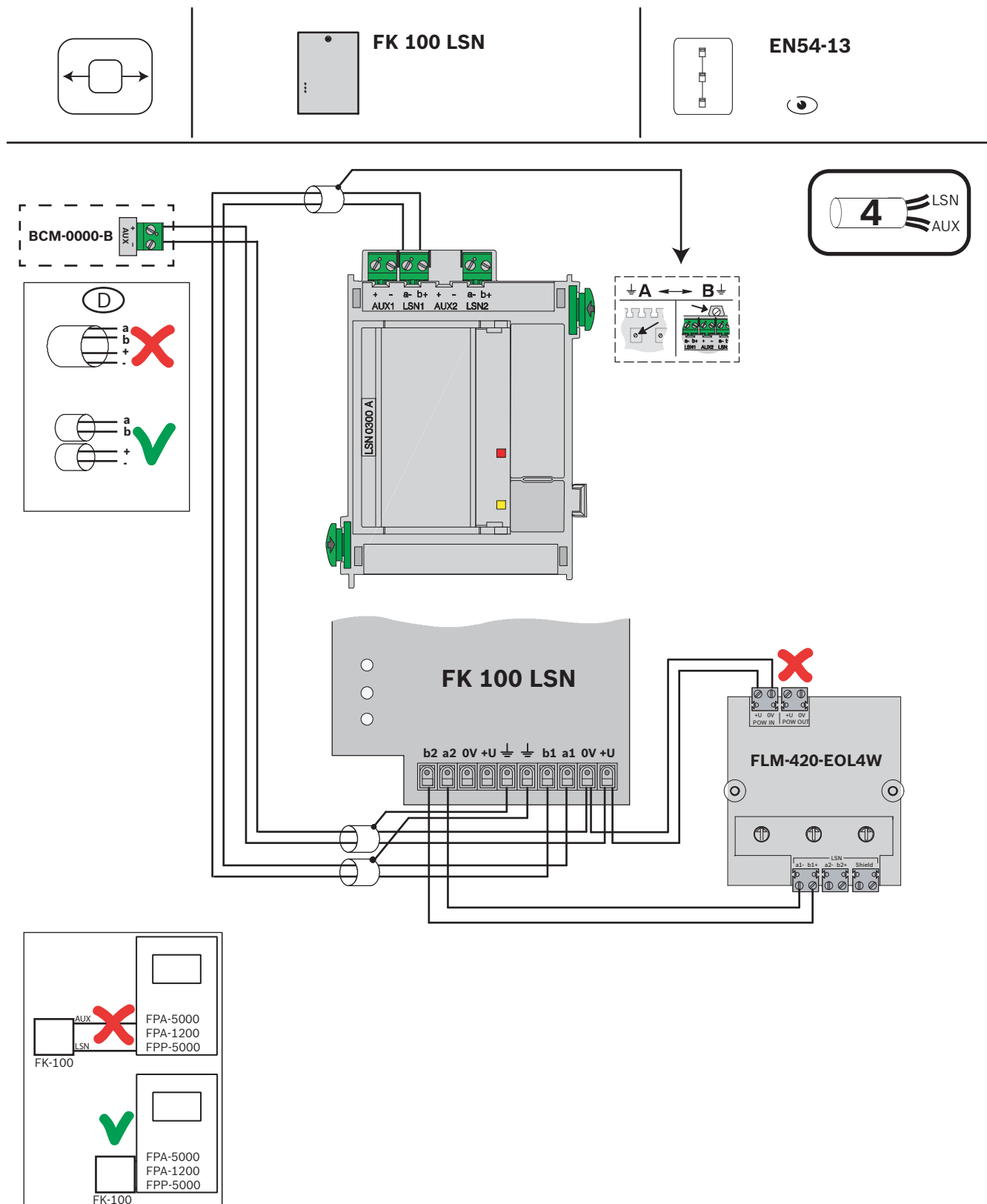


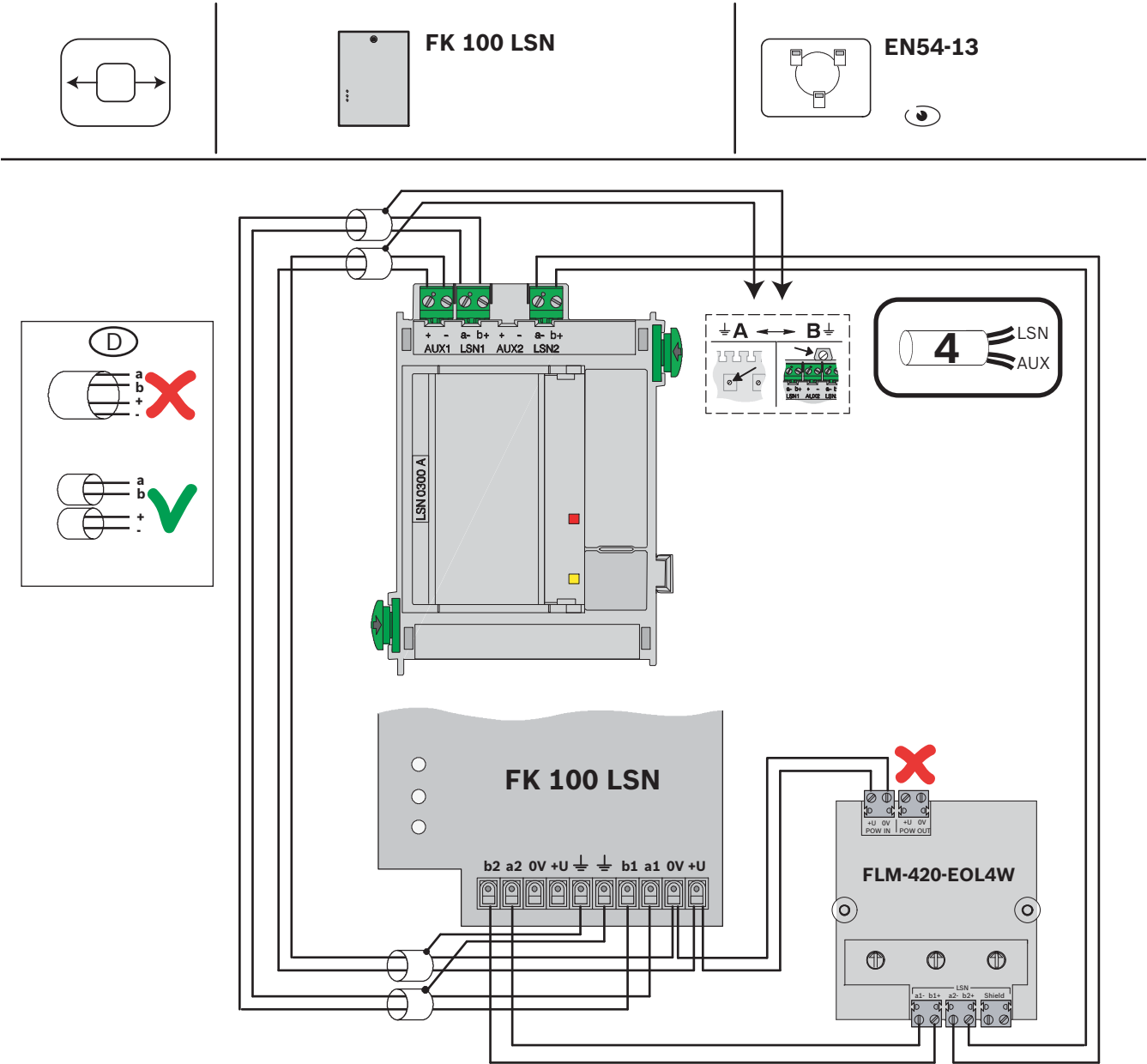
FK 100 LSN

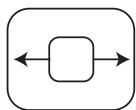


EN54-13

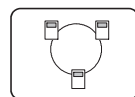




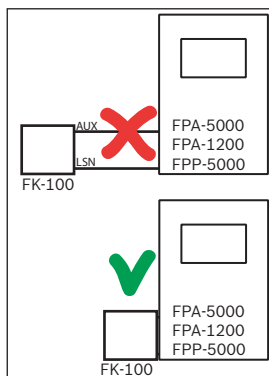
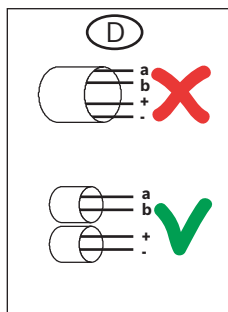
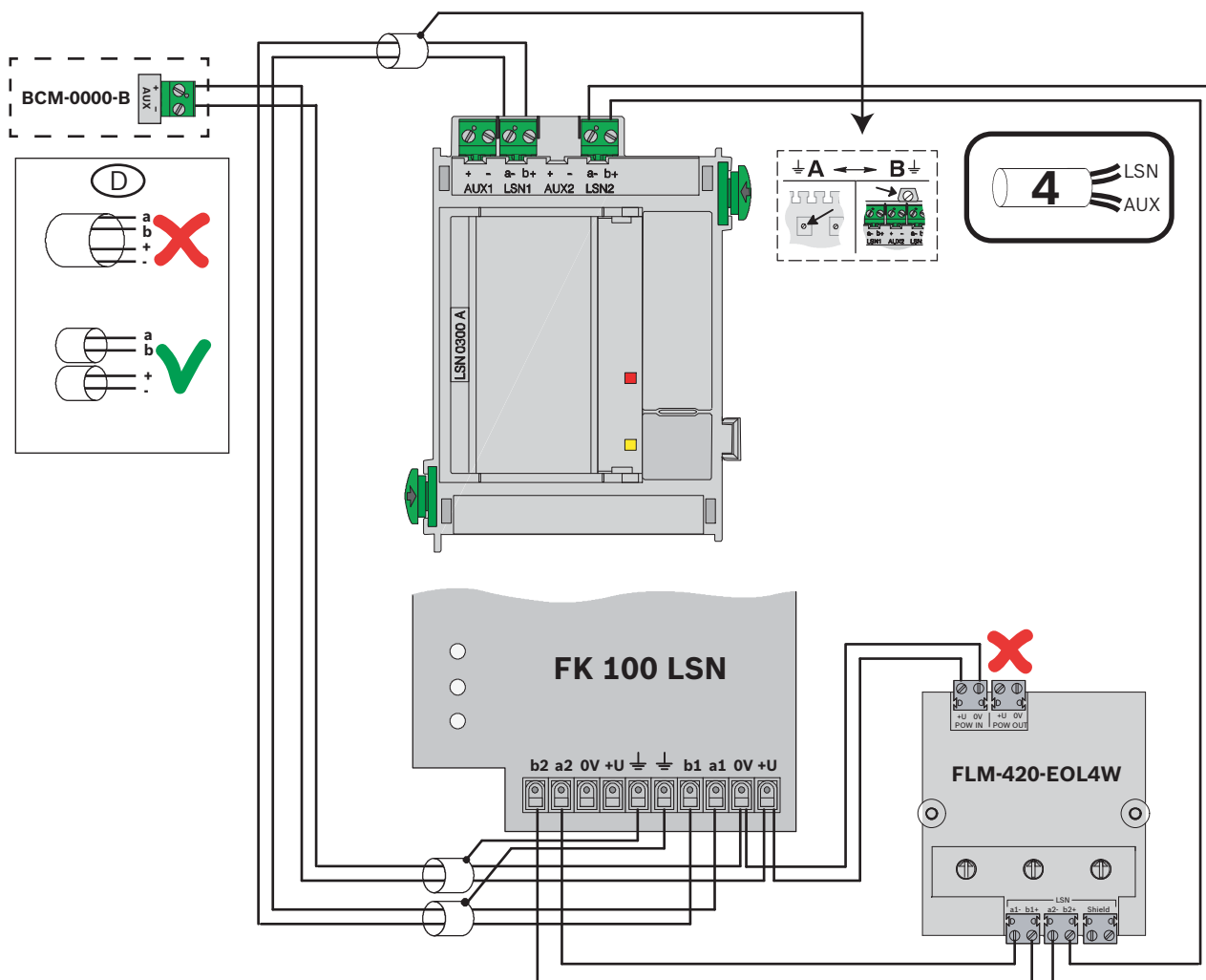


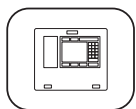


FK 100 LSN

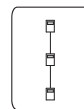


EN54-13

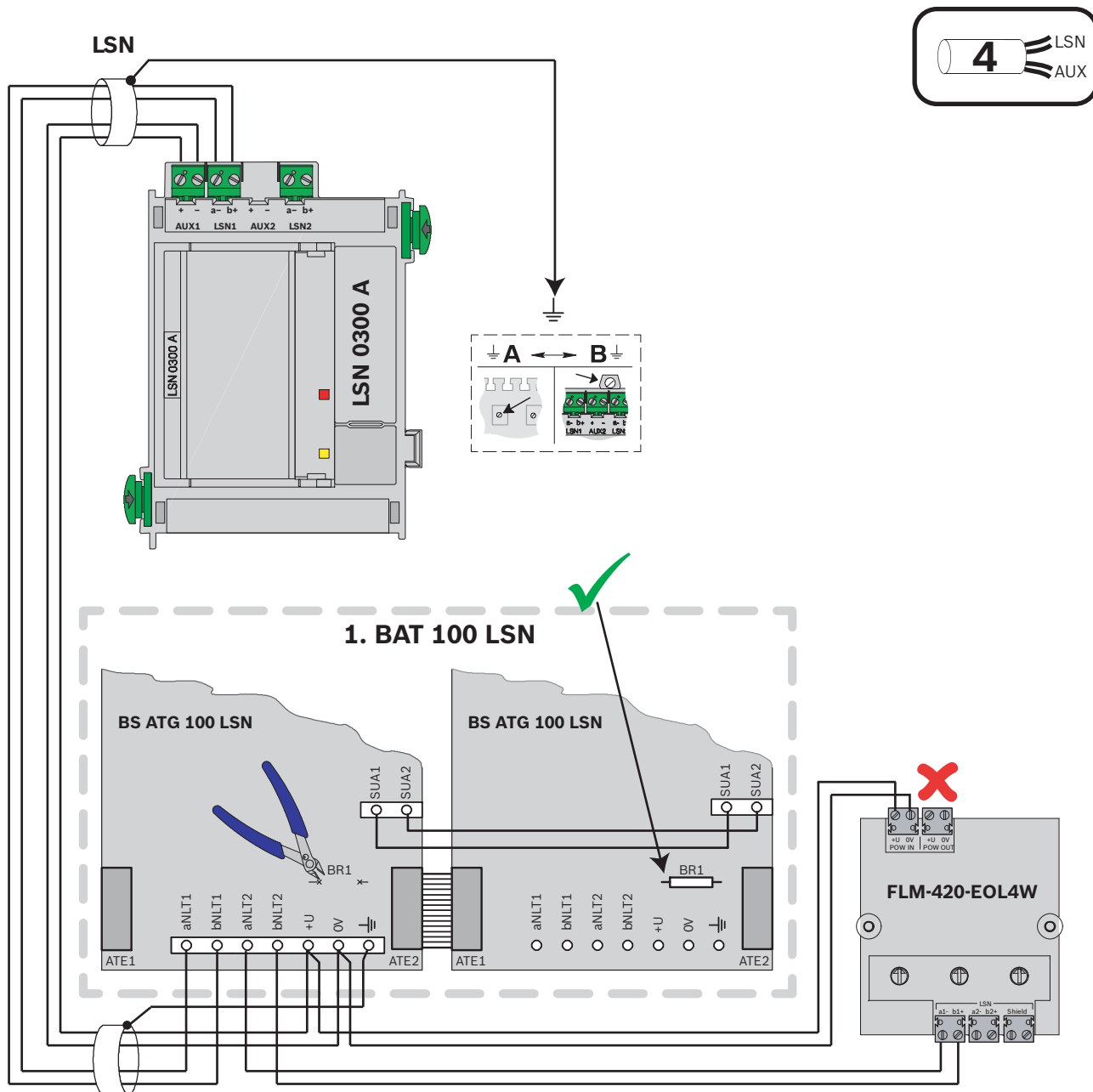


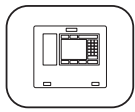


BAT 100 LSN

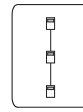


EN54-13

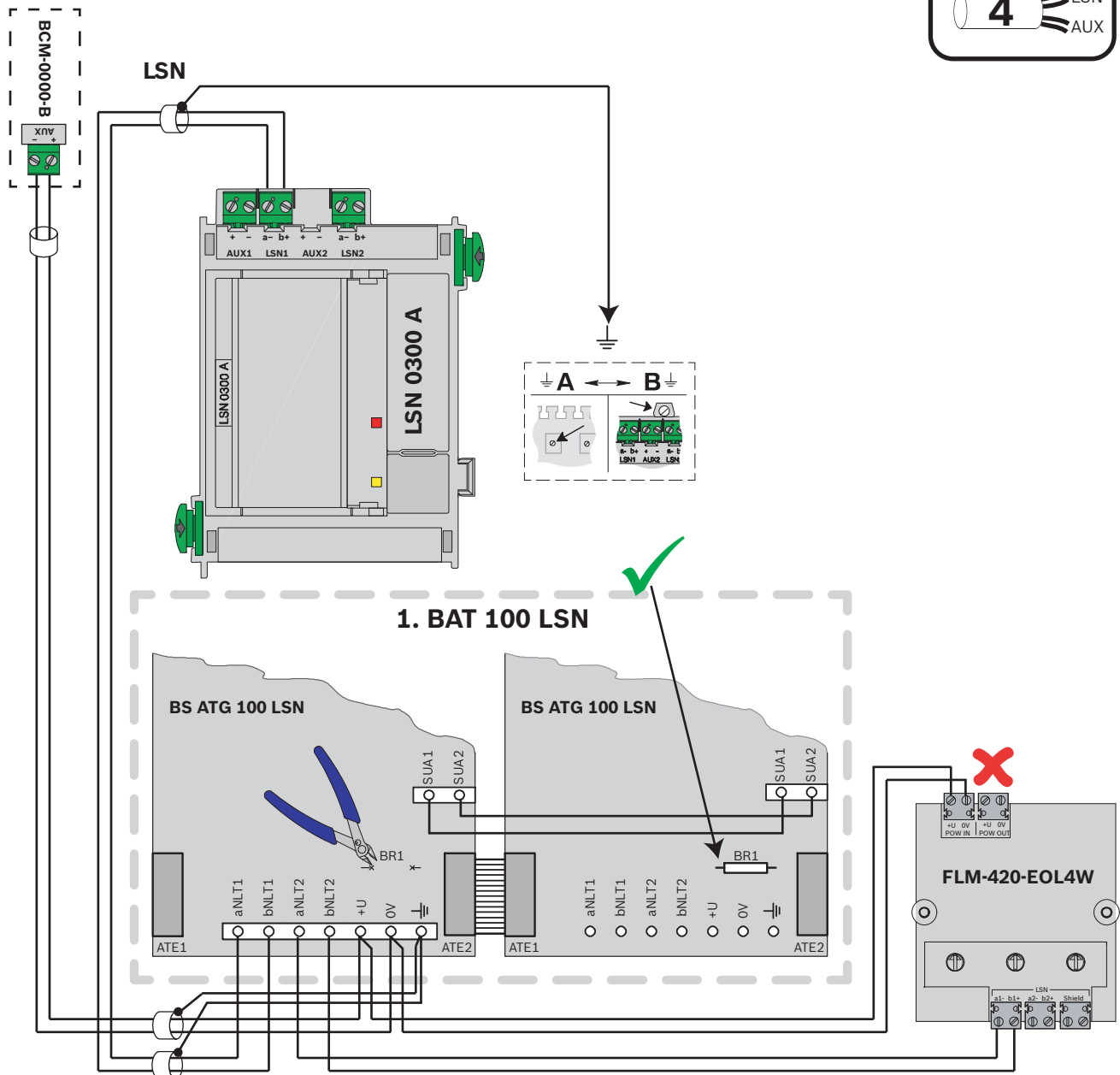


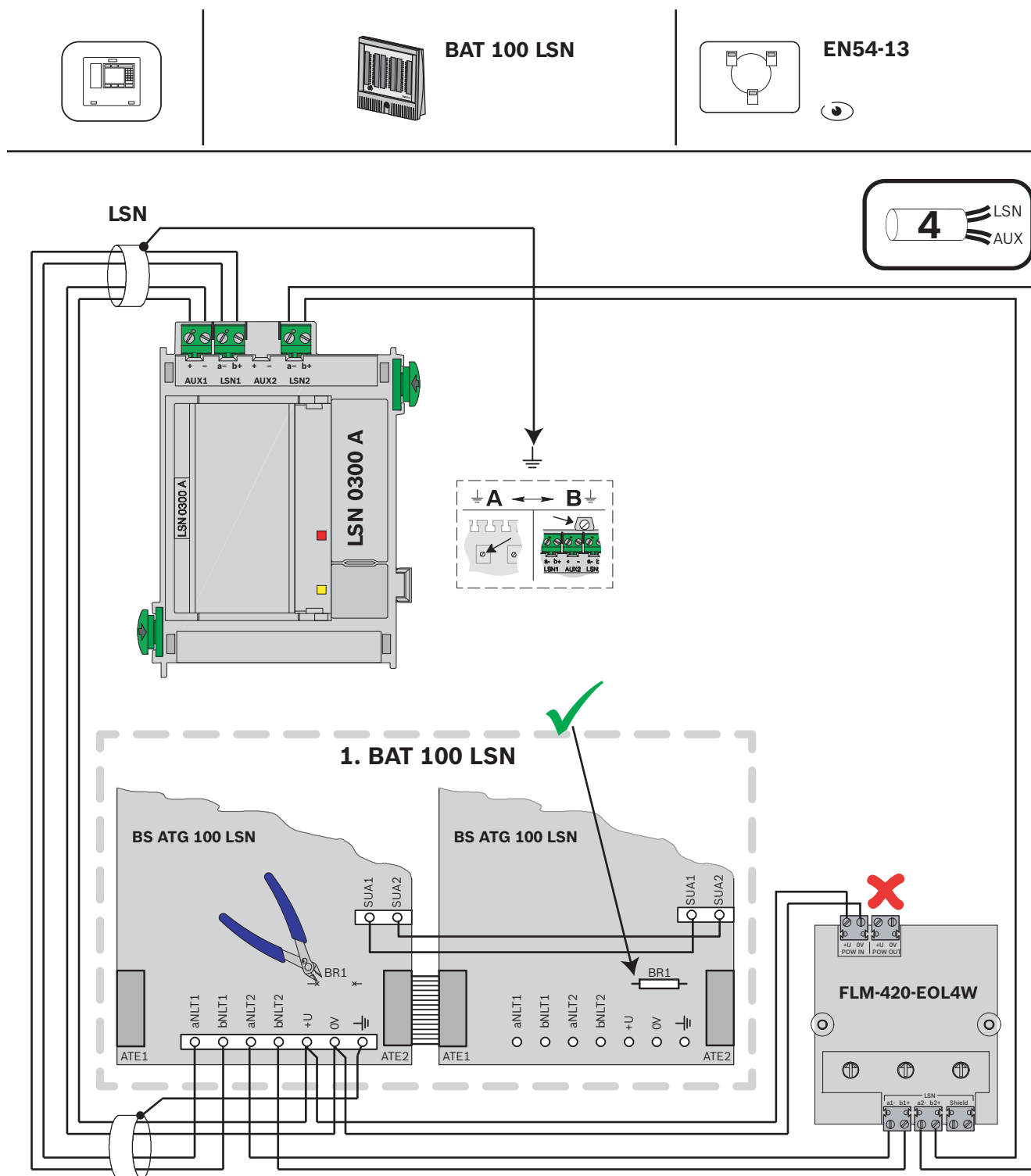


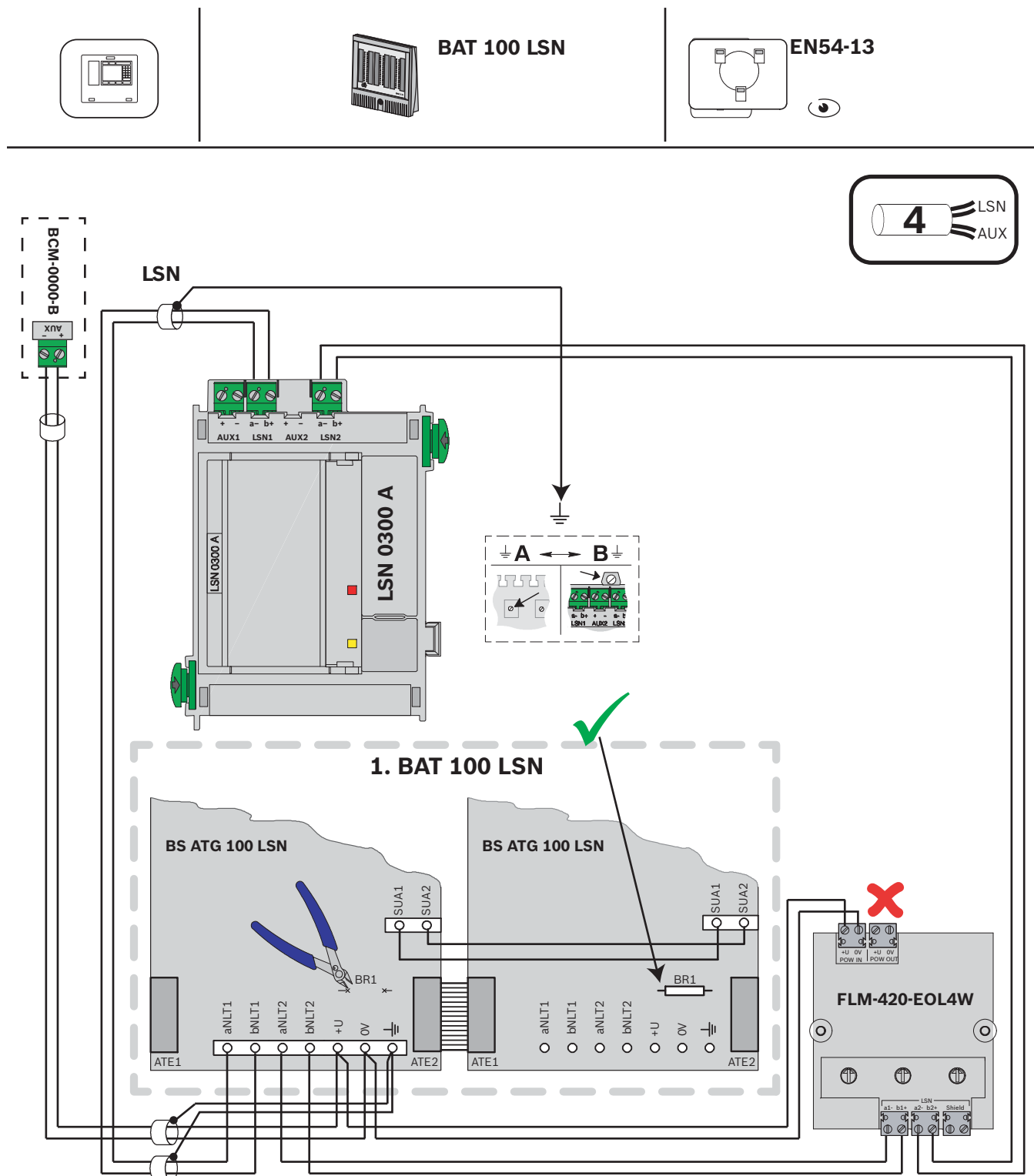
BAT 100 LSN



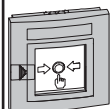
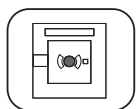
EN54-13



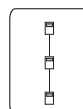




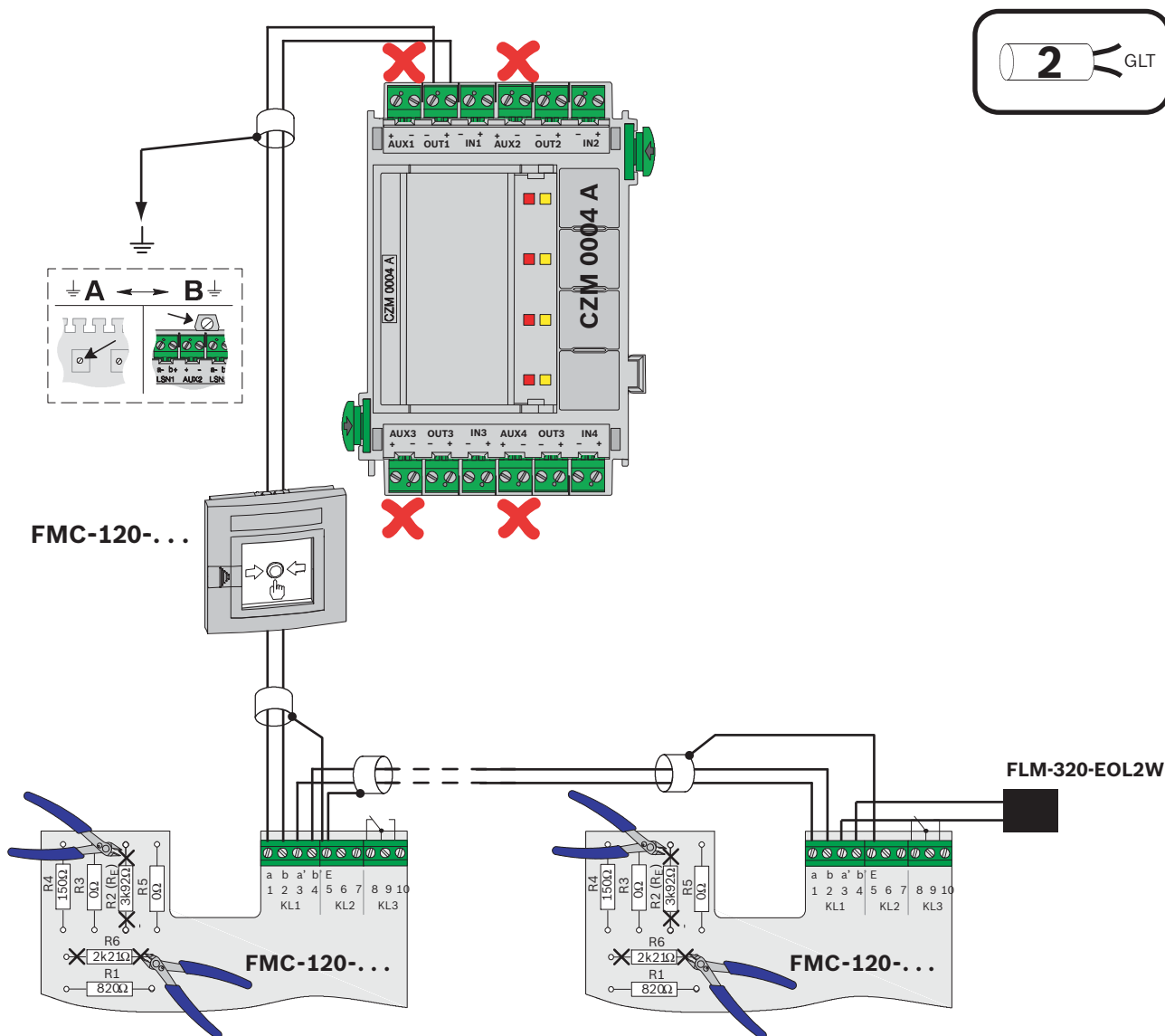
2.6.2 CZM 0004 A (EN 54-13)

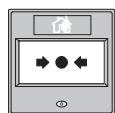
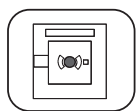
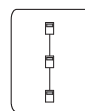
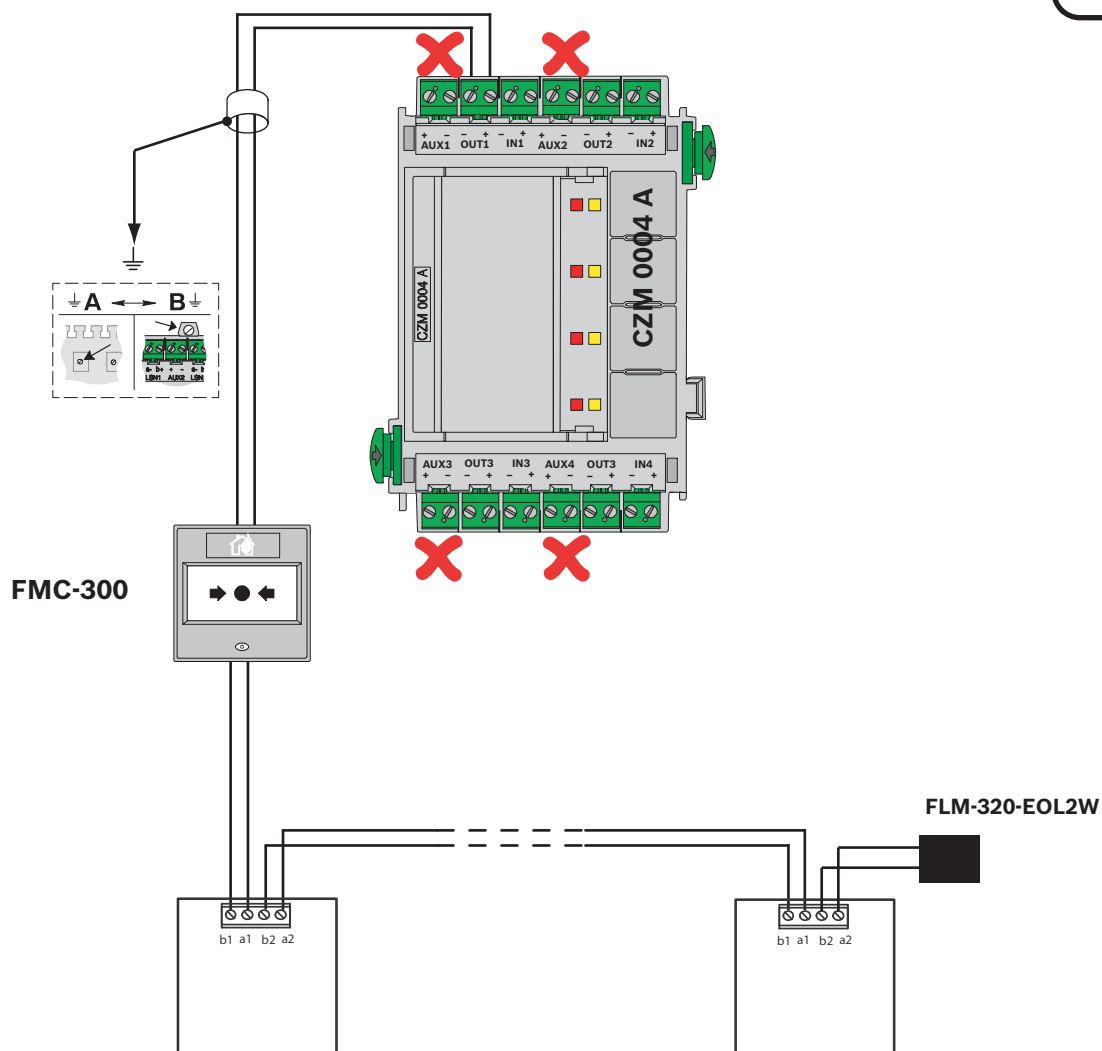
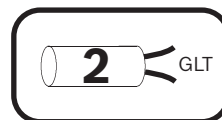


FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



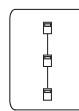
EN 54-13



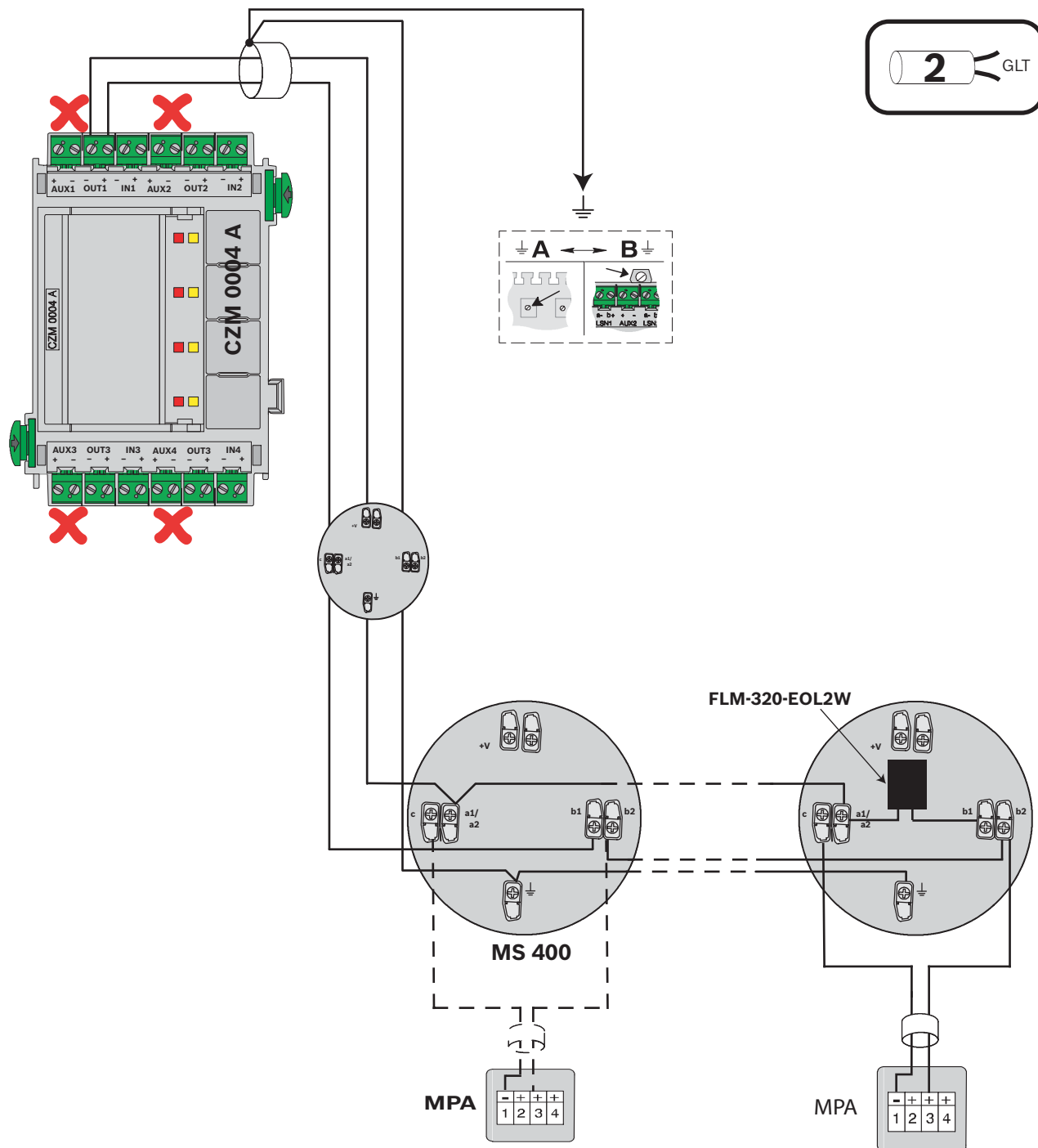
**FMC-300 Series****EN 54-13**

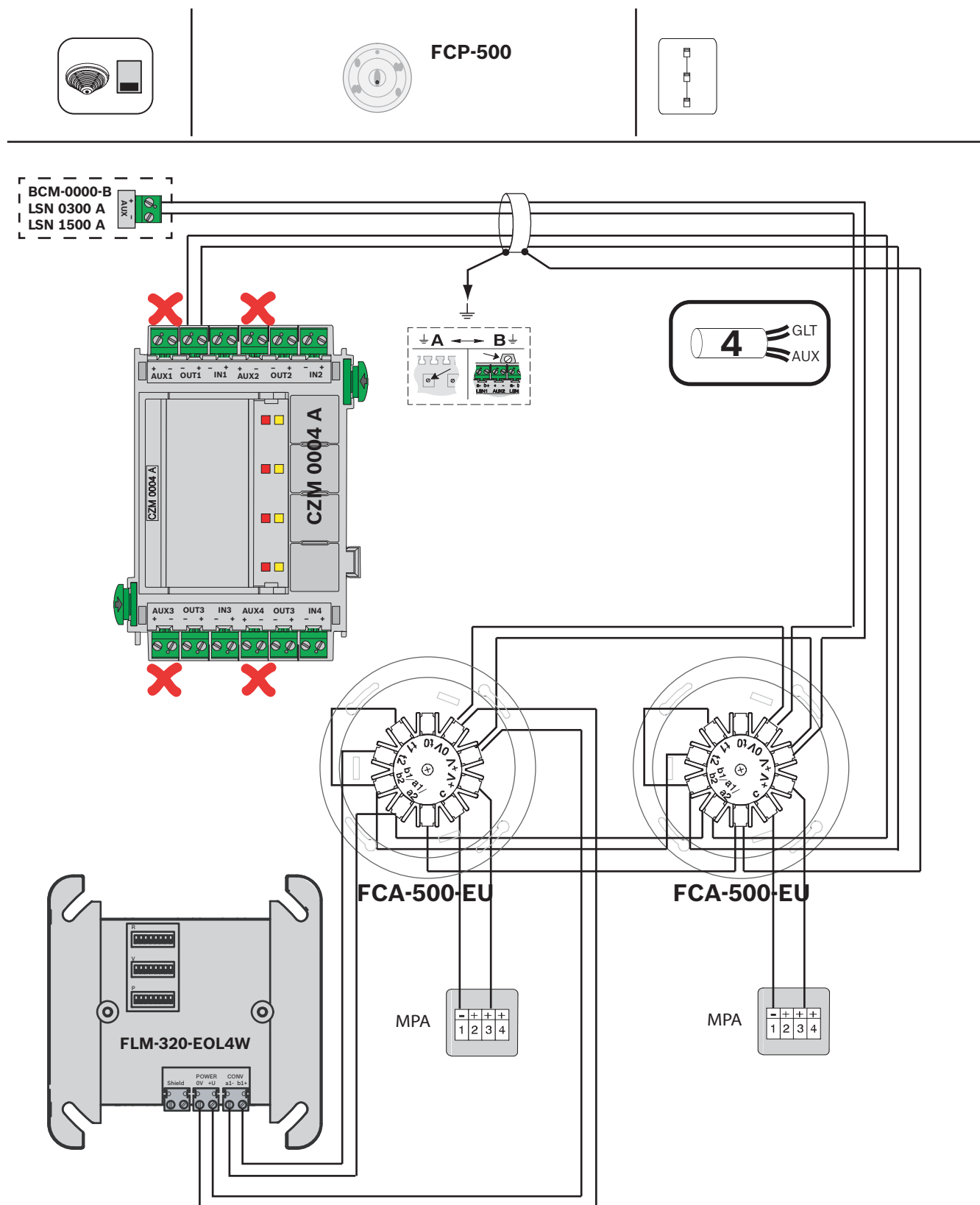


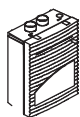
MS 400



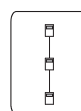
EN 54-13



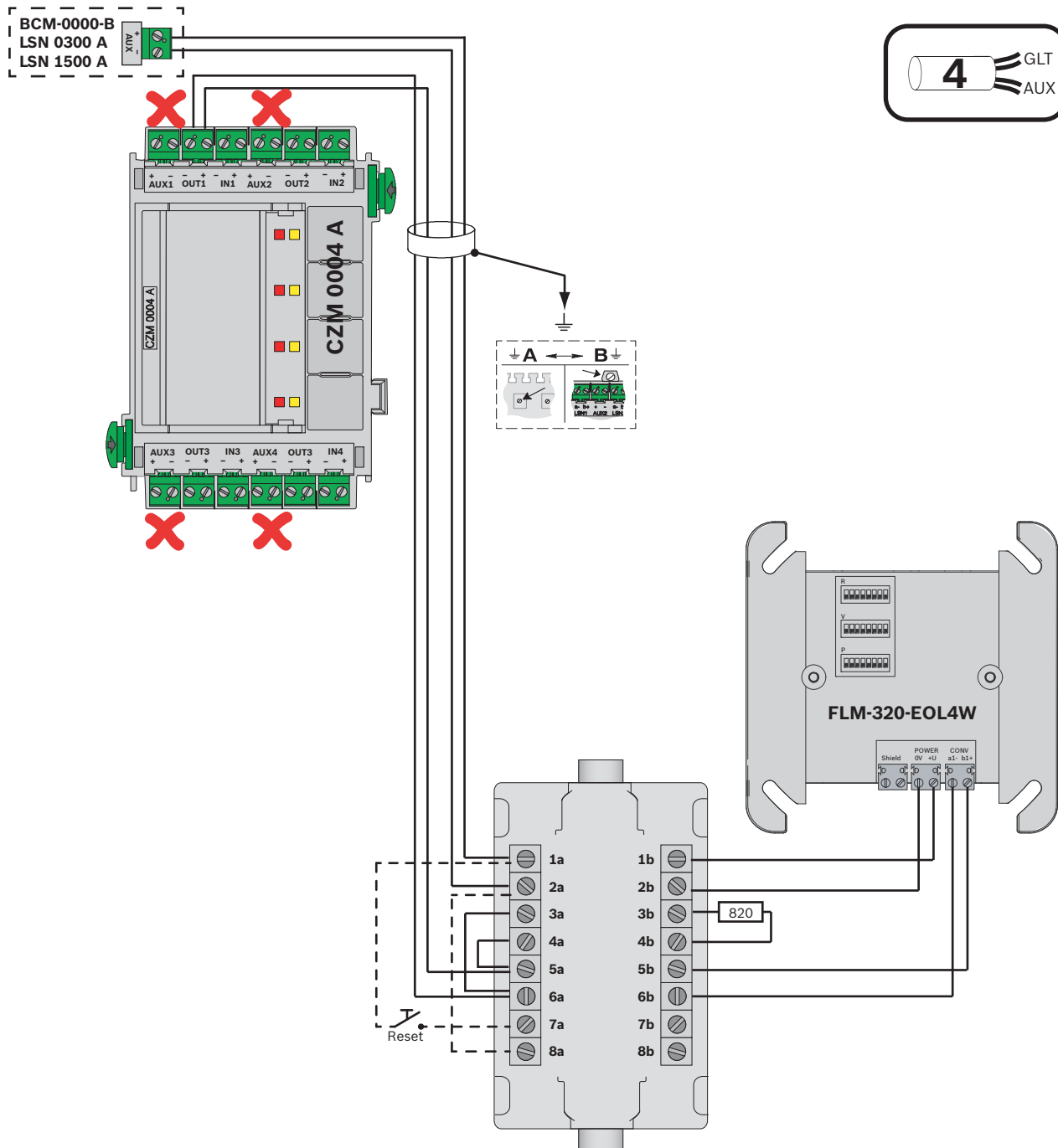


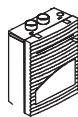


FCS-320-TM Series

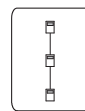


EN54-13





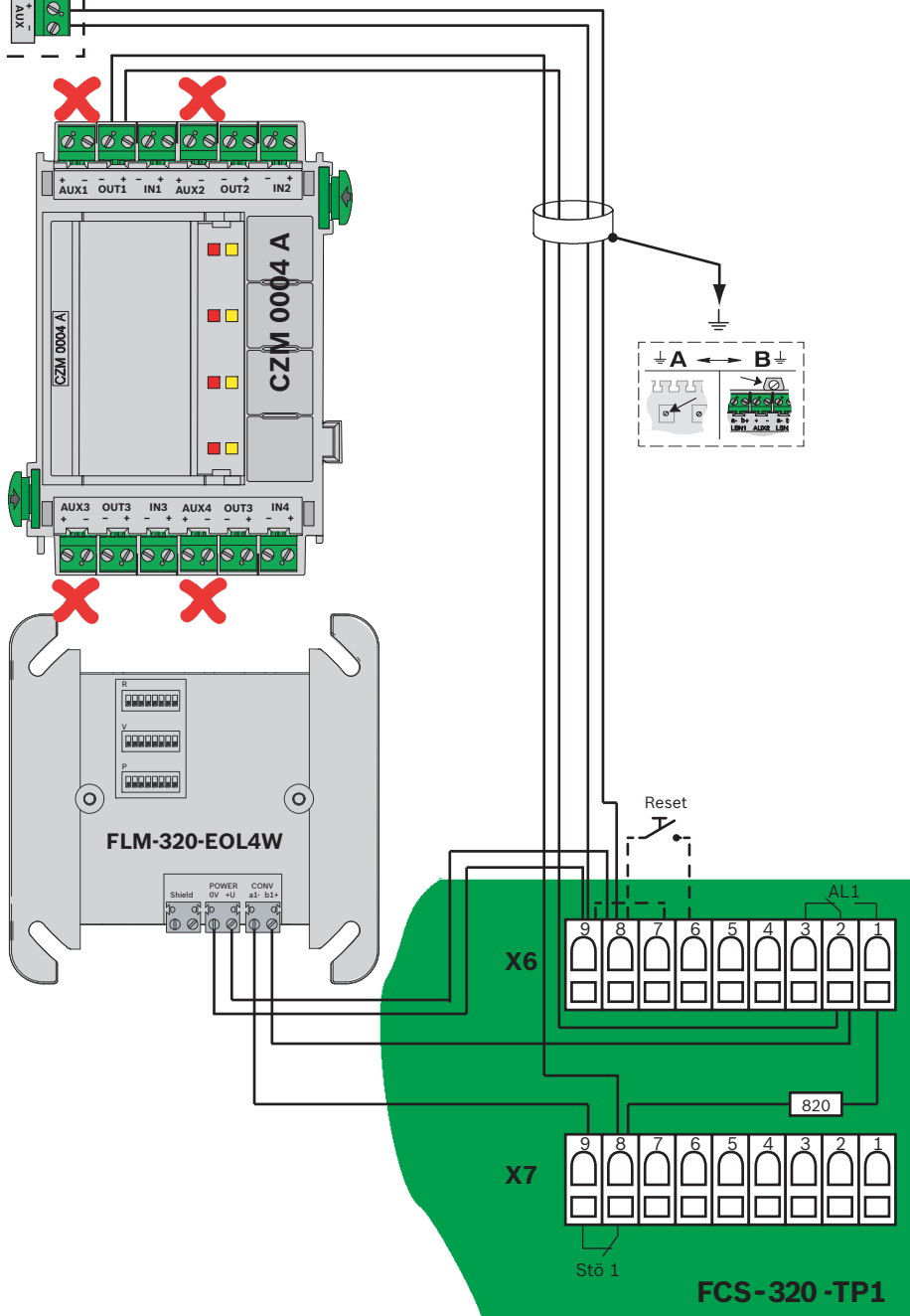
FCS-320-TP Series

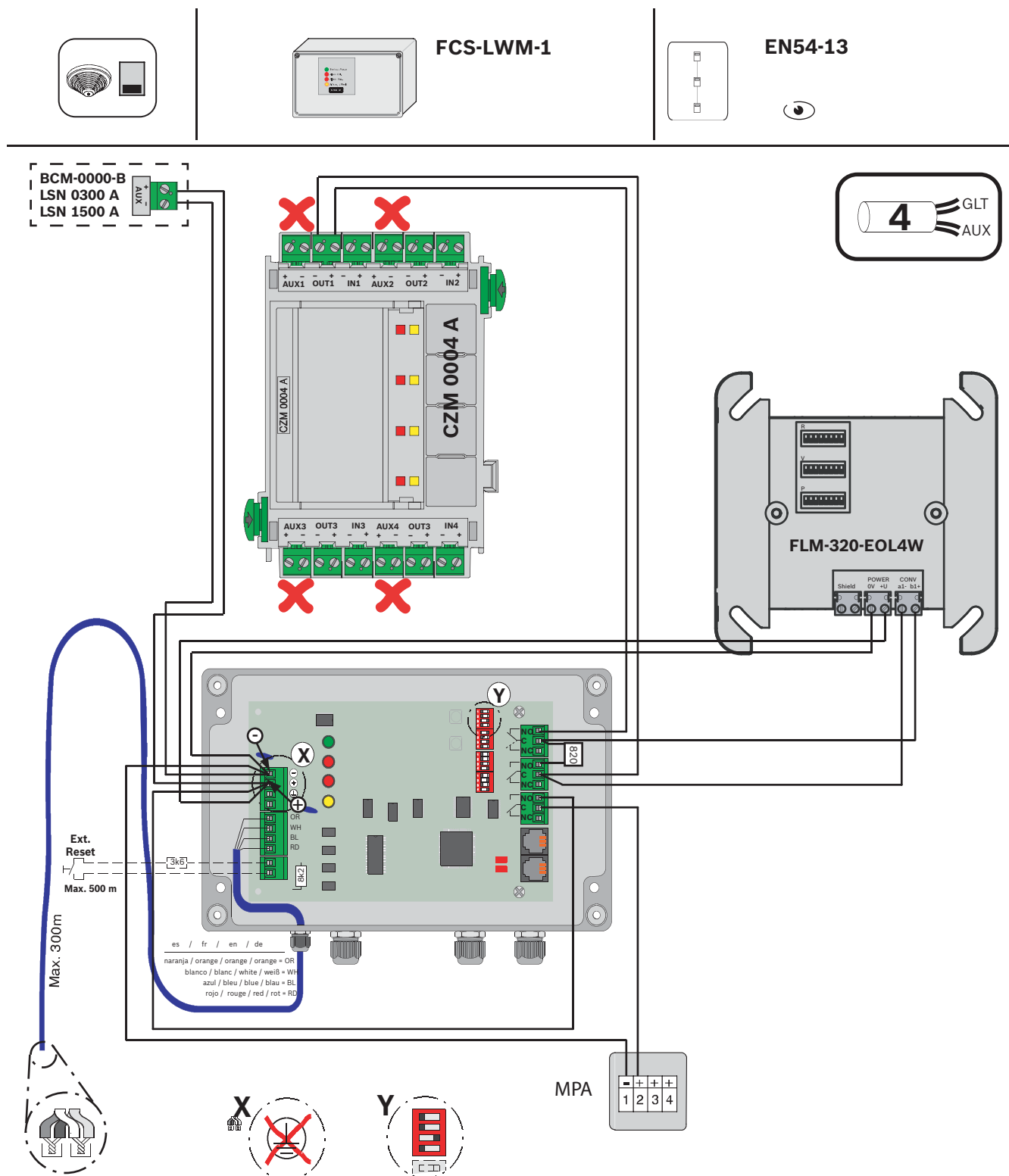


EN54-13



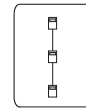
BCM-0000-B
LSN 0300 A
LSN 1500 A







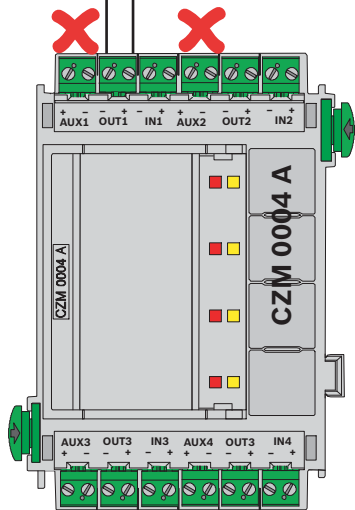
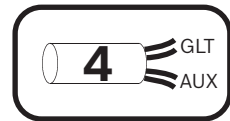
**Fireray 50RV
Fireray 100RV**



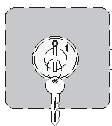
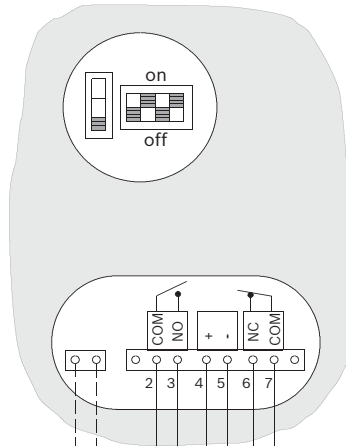
EN54-13



BCM-0000-B
LSN 0300 A
LSN 1500 A

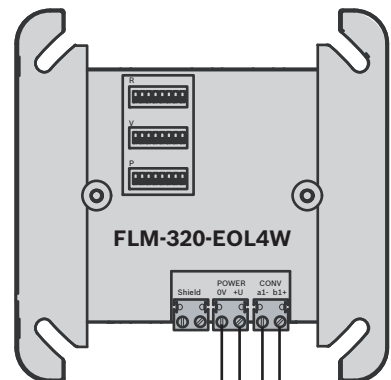


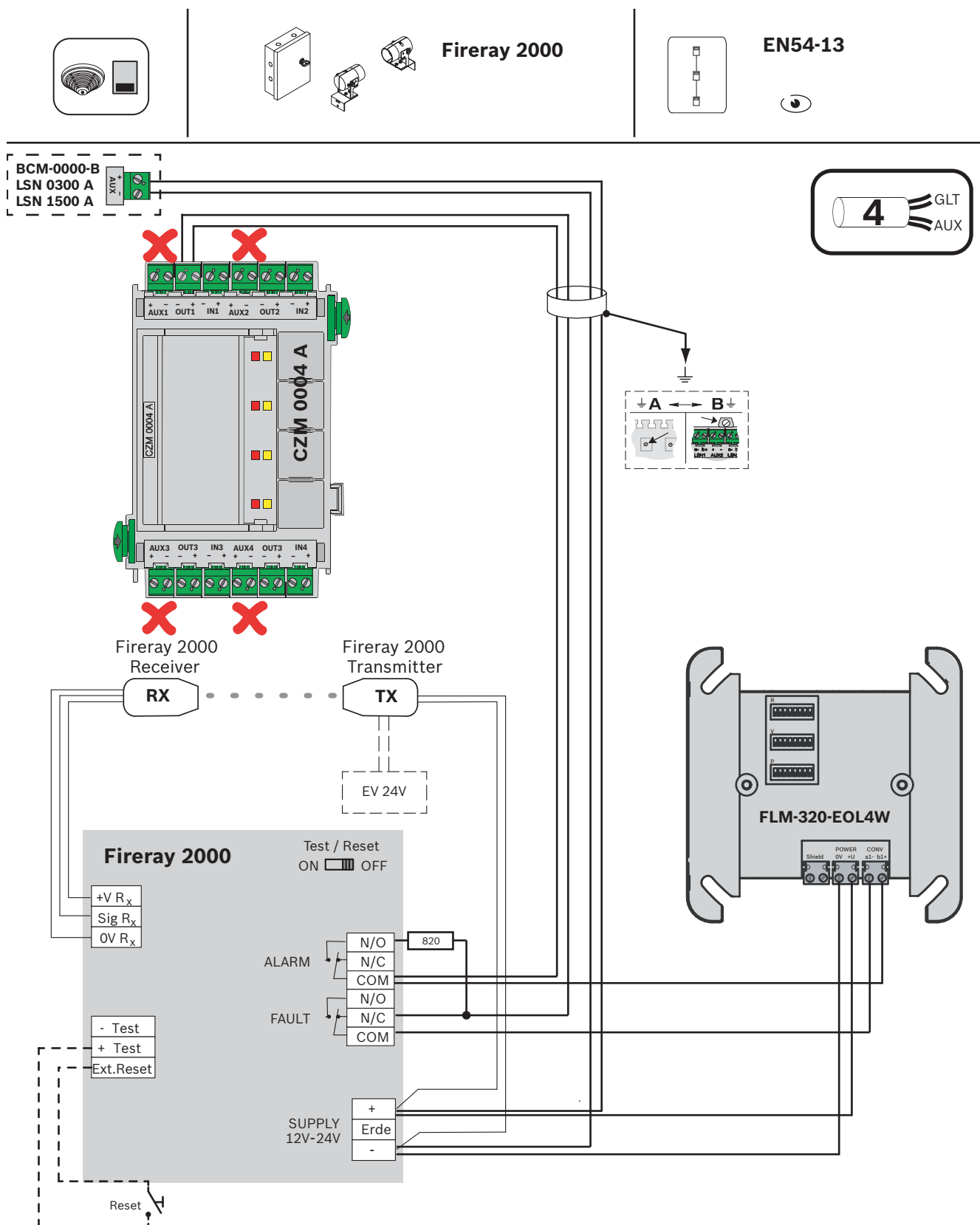
Fireray 50V/100 RV



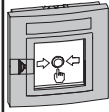
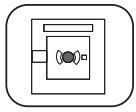
WHITE
YELLOW
RED
BLUE
GREEN
BLACK

820
Re

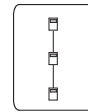




2.6.3 FLM-420/4-CON-S/D



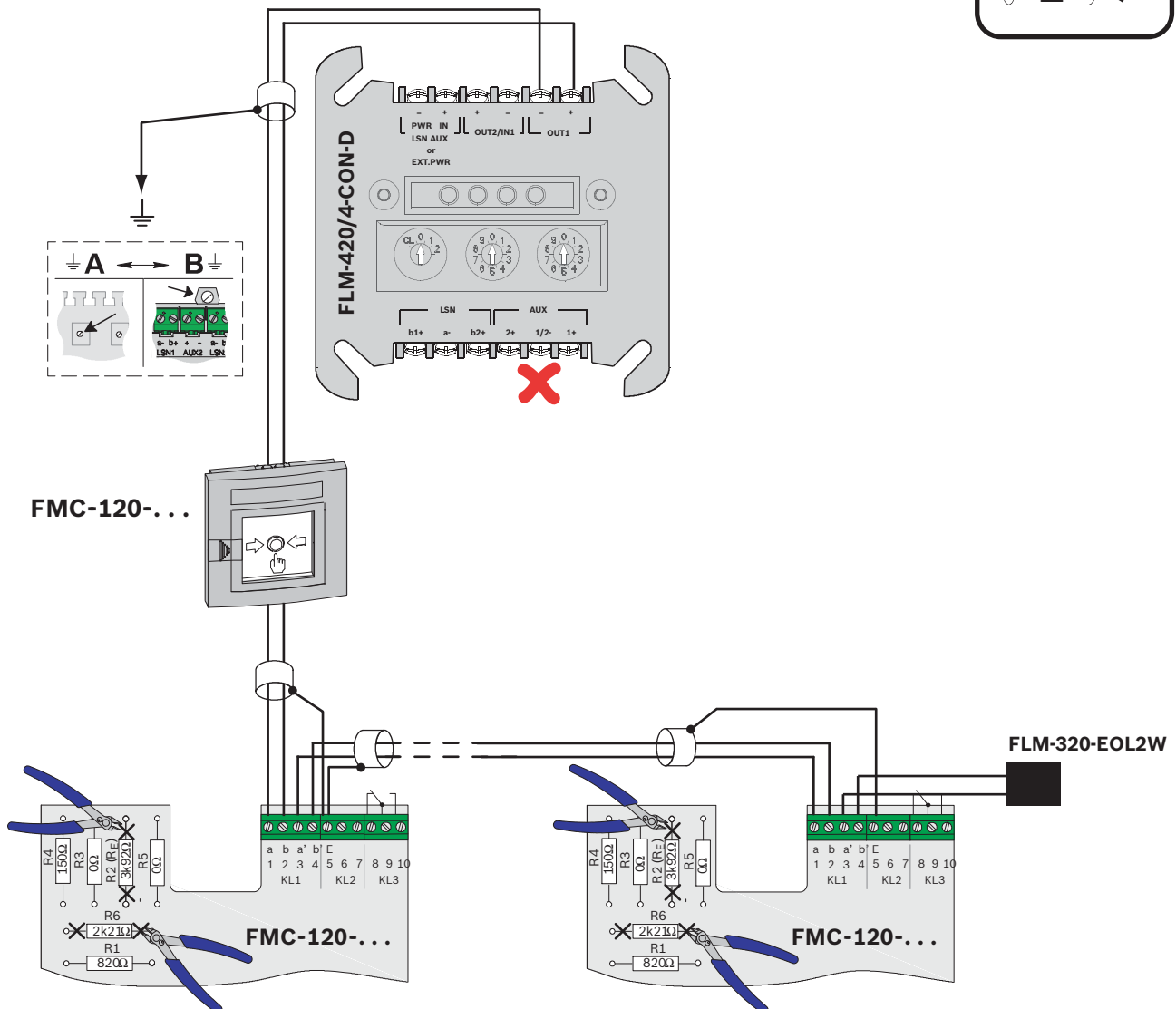
FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B

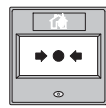
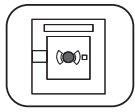
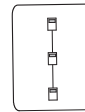
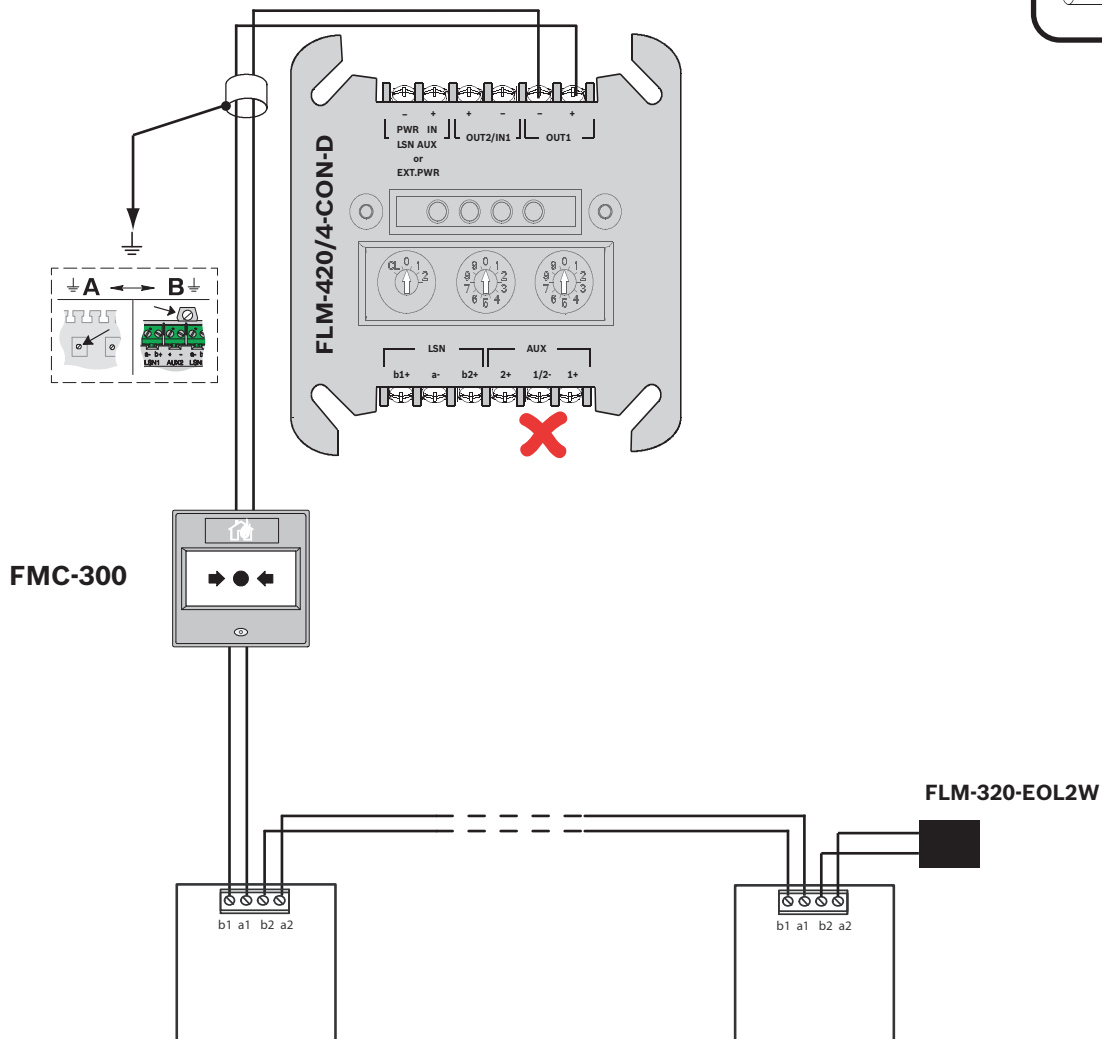
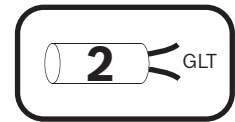


EN 54-13



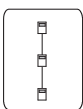
2 GLT



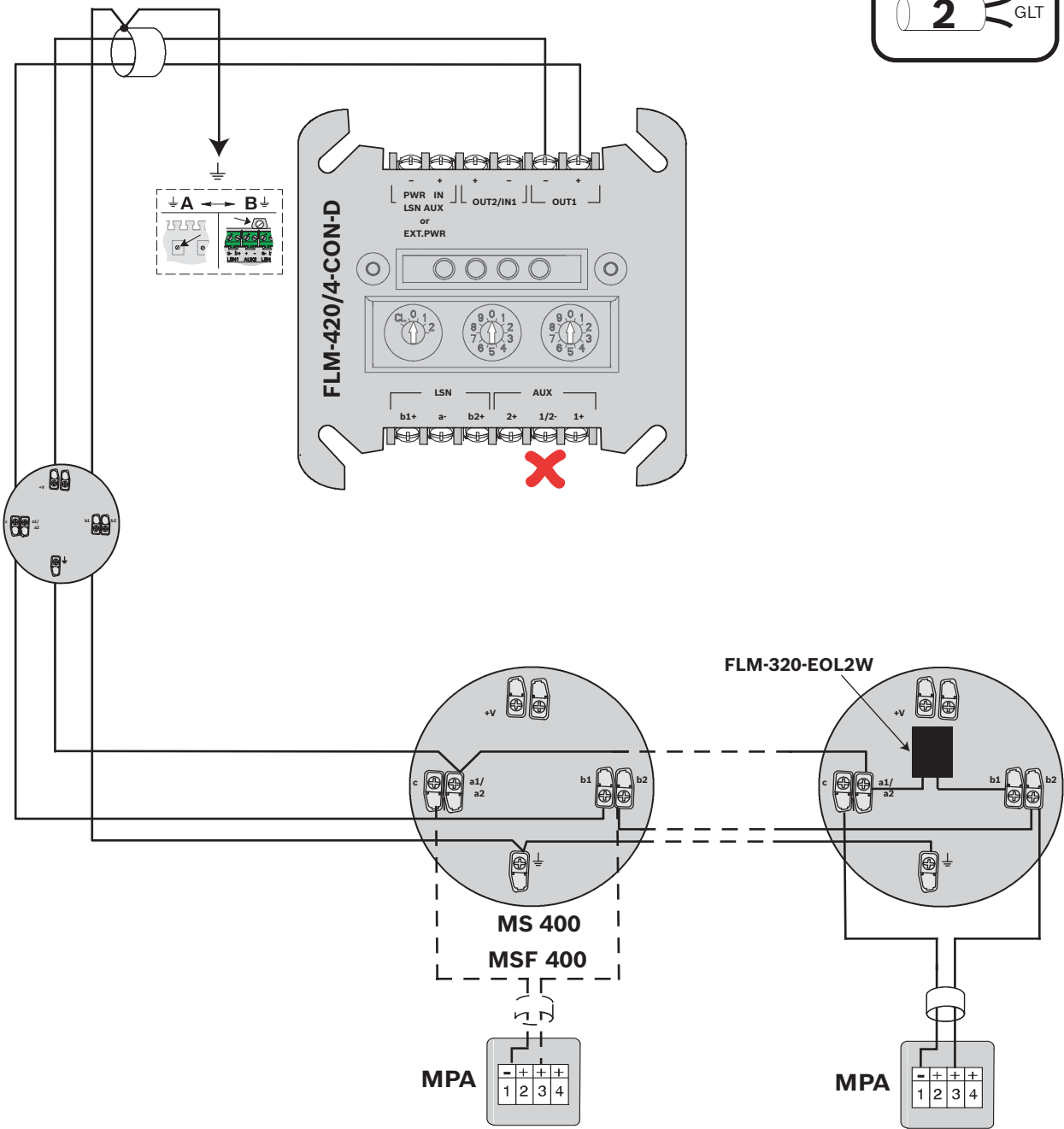
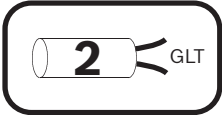
**FMC-300****EN 54-13**



MS 400
MSF 400

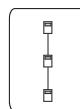


EN 54-13





FCP-500



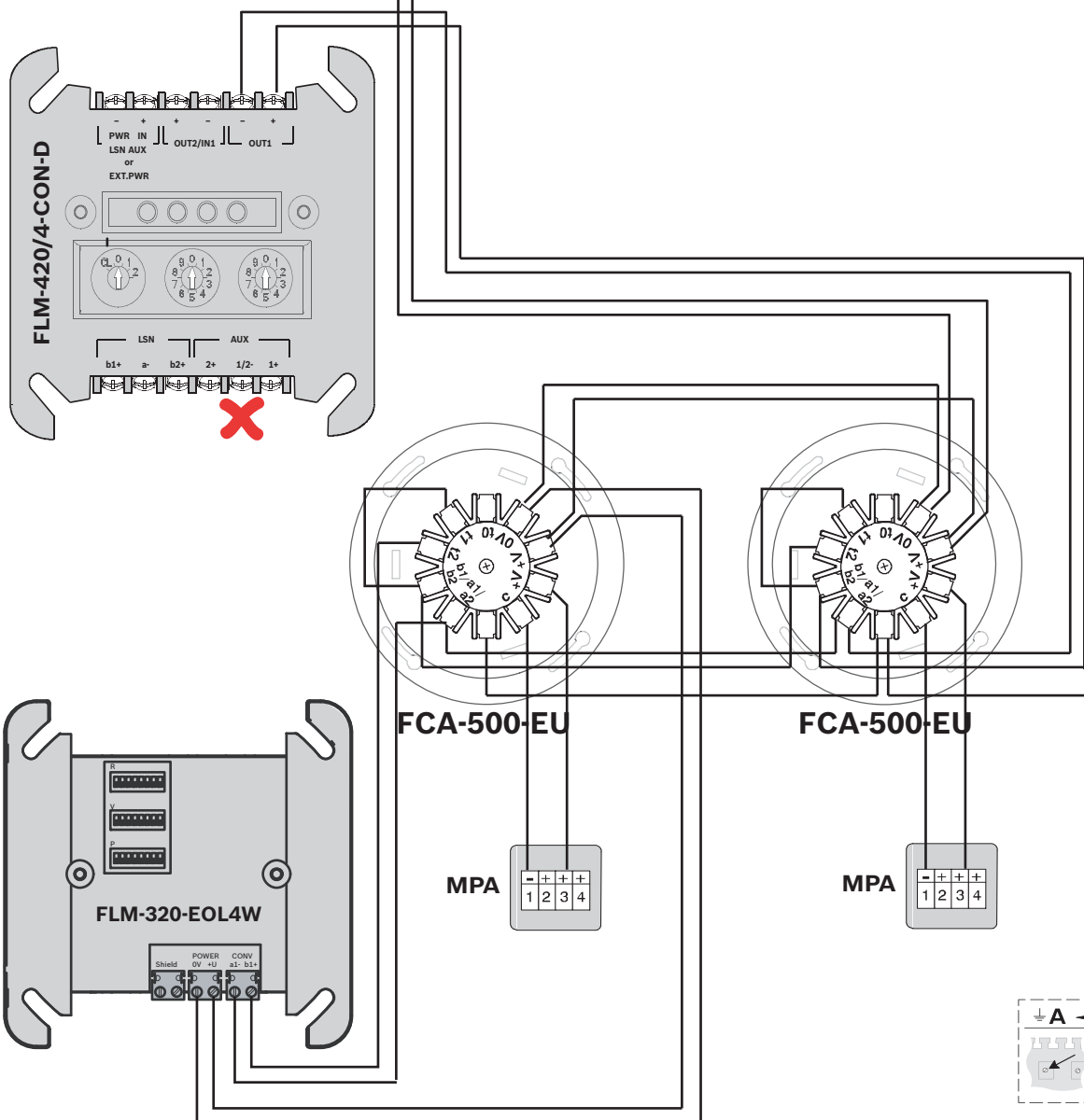
EN54-13

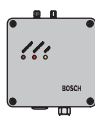


BCM-0000-B
LSN 0300 A
LSN 1500 A

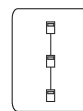


4 GLT
AUX





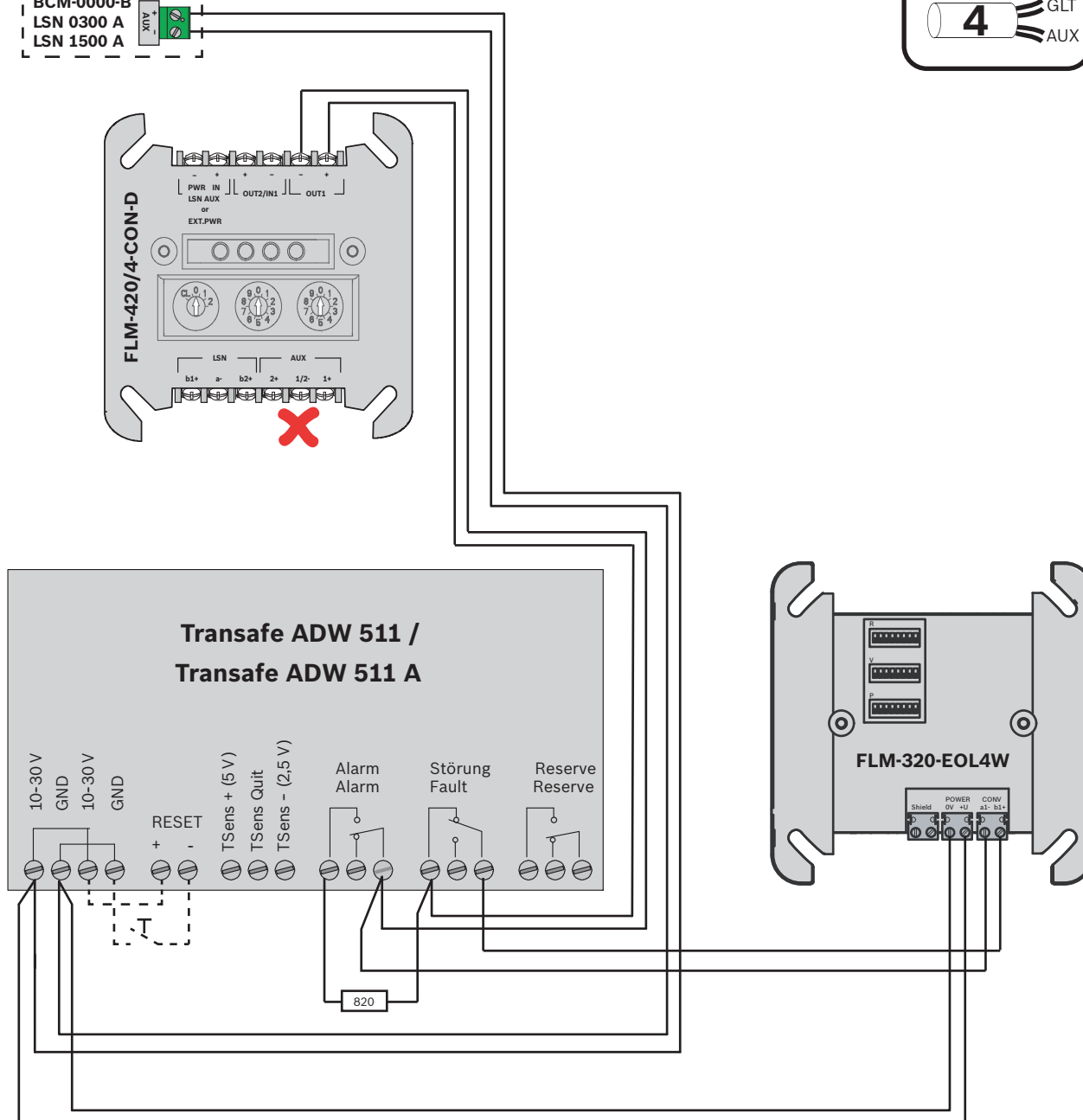
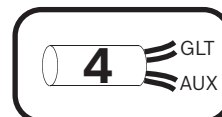
Transafe ADW 511
Transafe ADW 511A

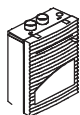


EN54-13

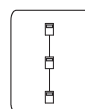


BCM-0000-B
LSN 0300 A
LSN 1500 A





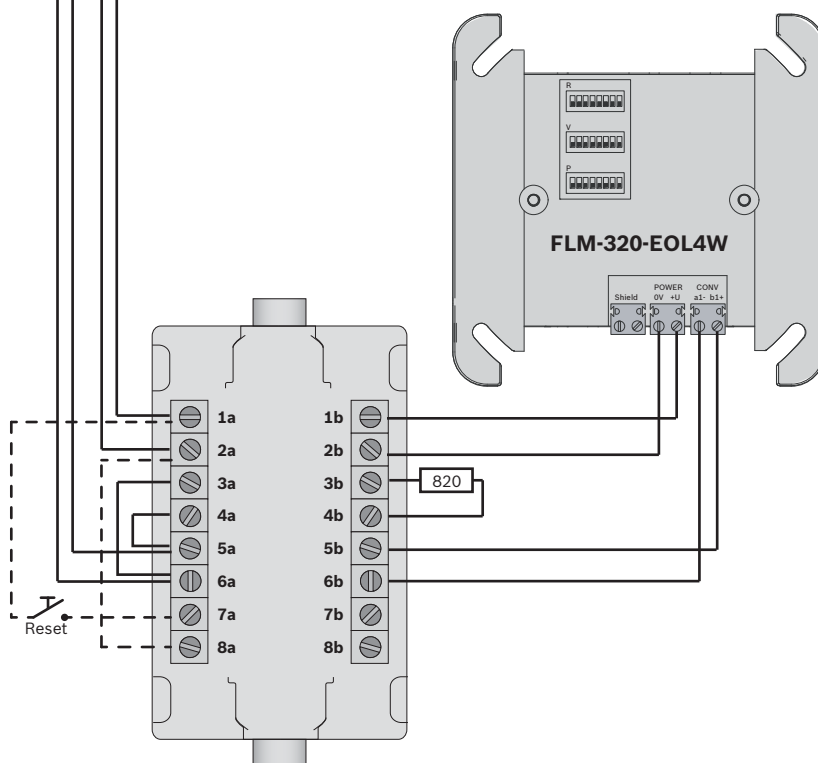
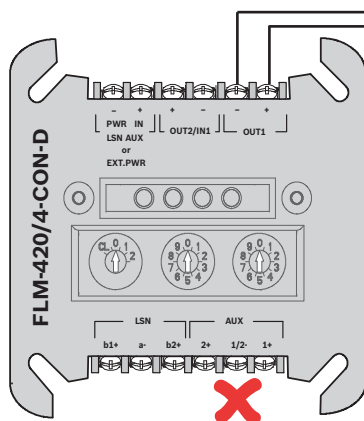
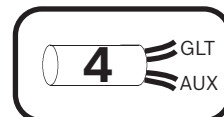
FCS-320-TM Series

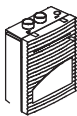


EN54-13

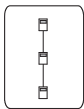


BCM-0000-B
LSN 0300 A
LSN 1500 A





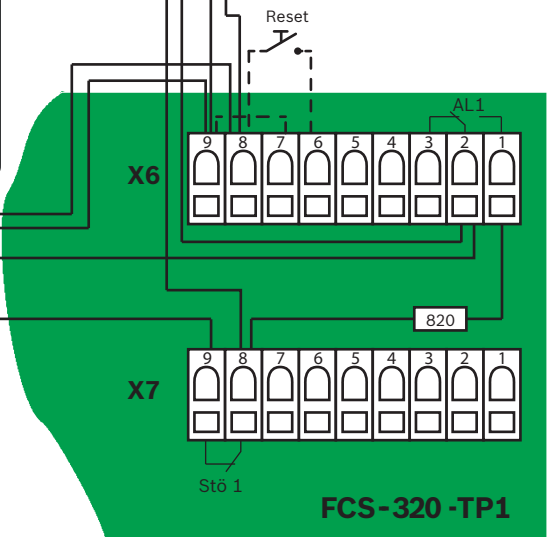
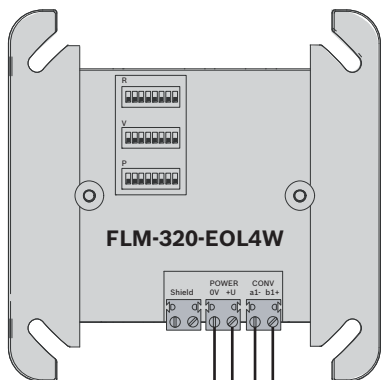
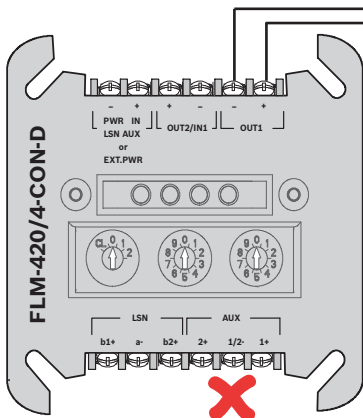
FCS-320-TP Series



EN54-13

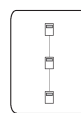


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LSN 1500 A

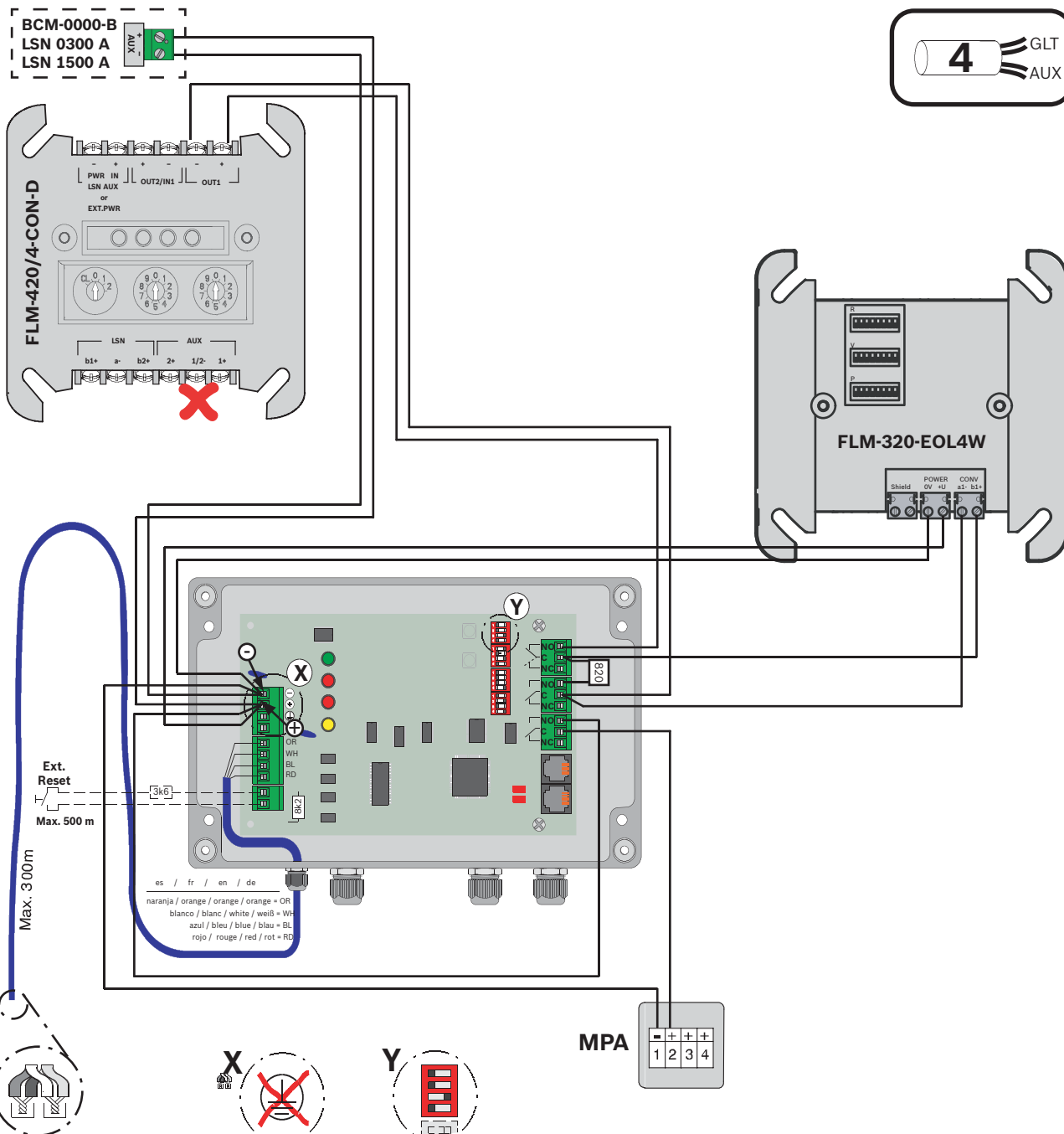




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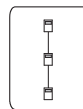


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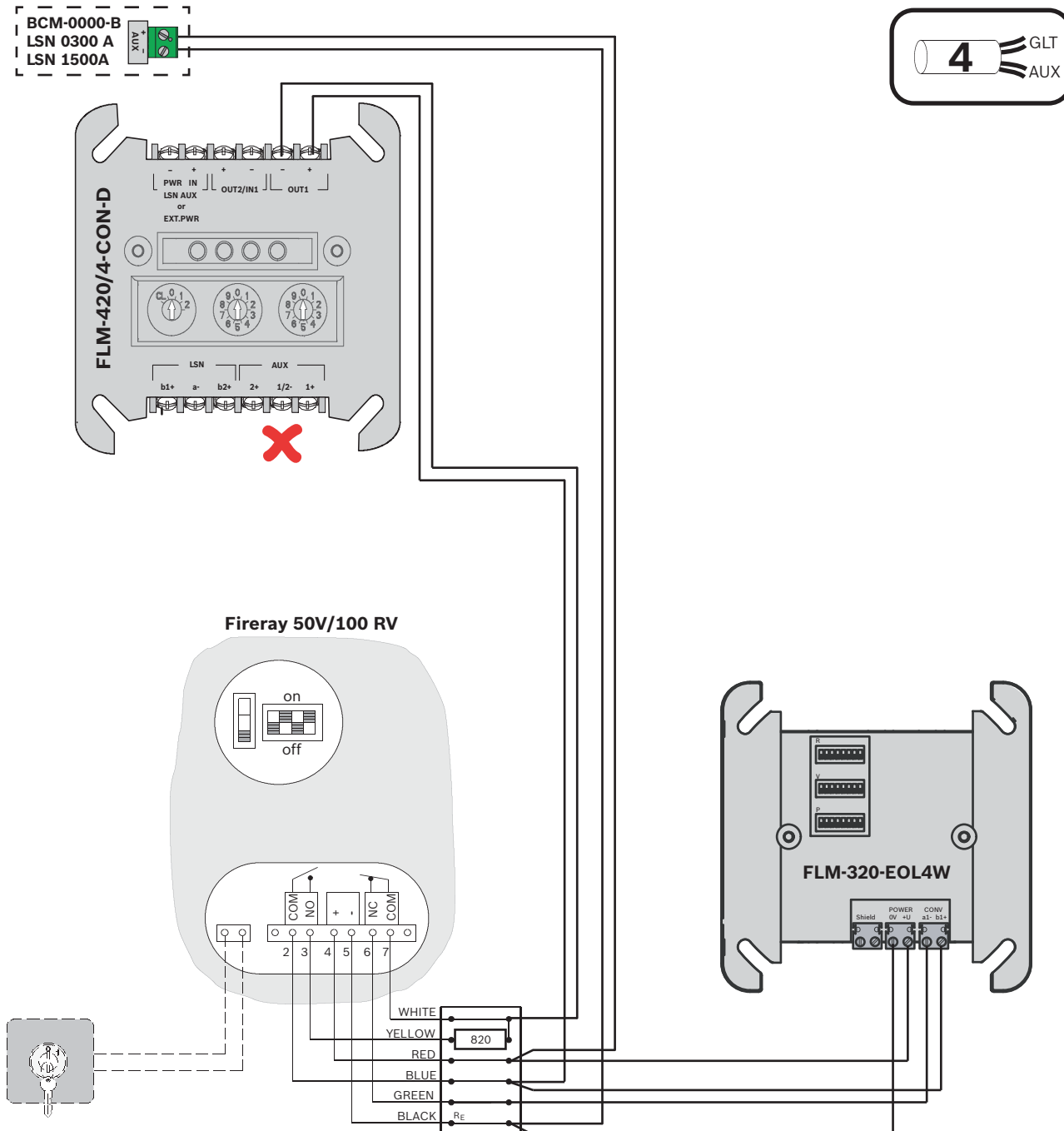


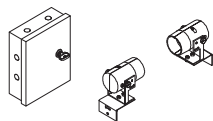
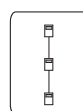
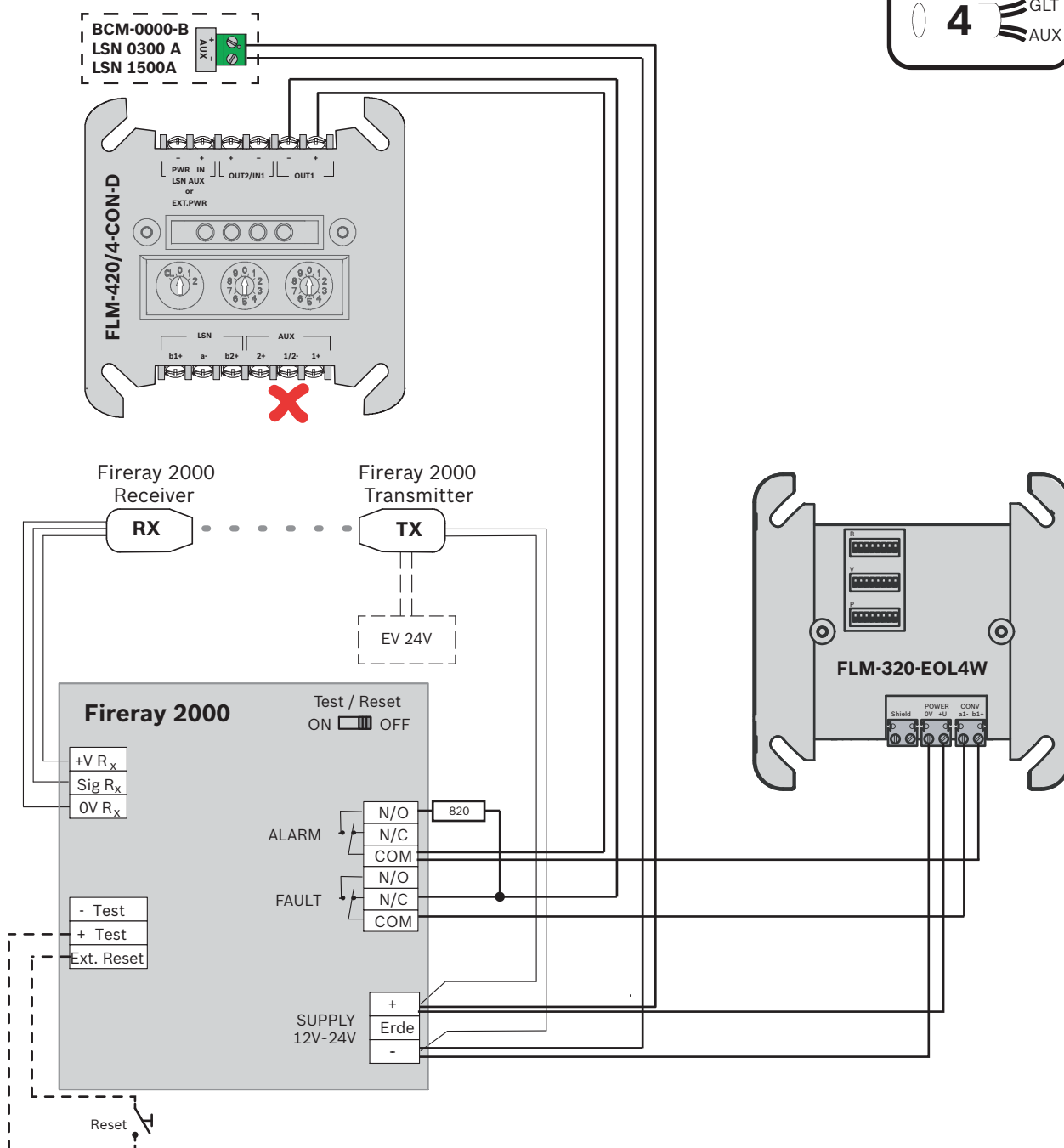


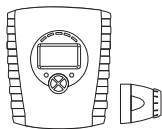
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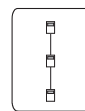
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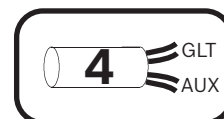
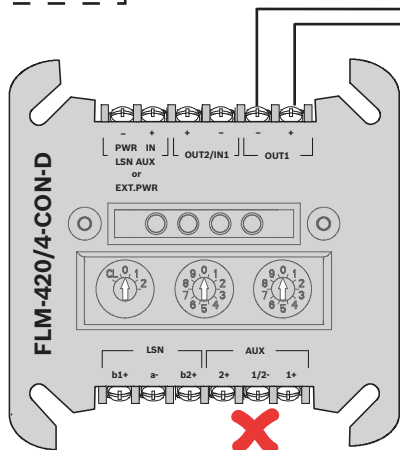
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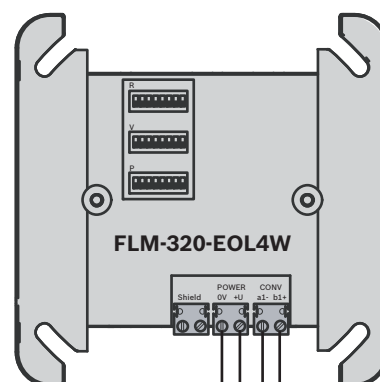
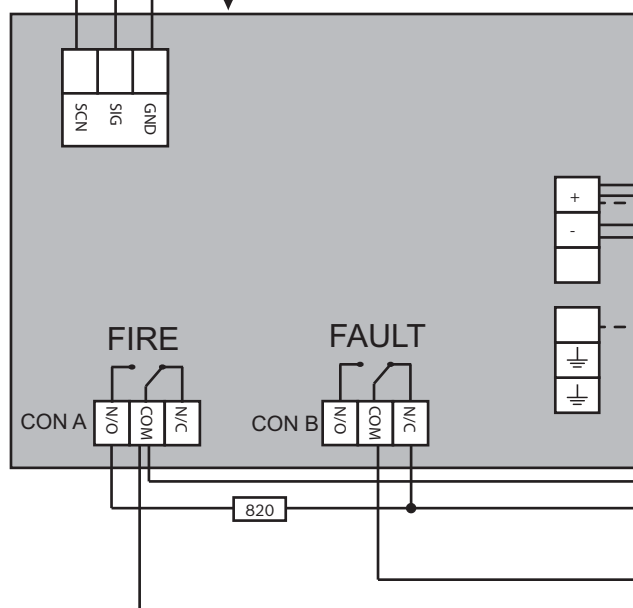
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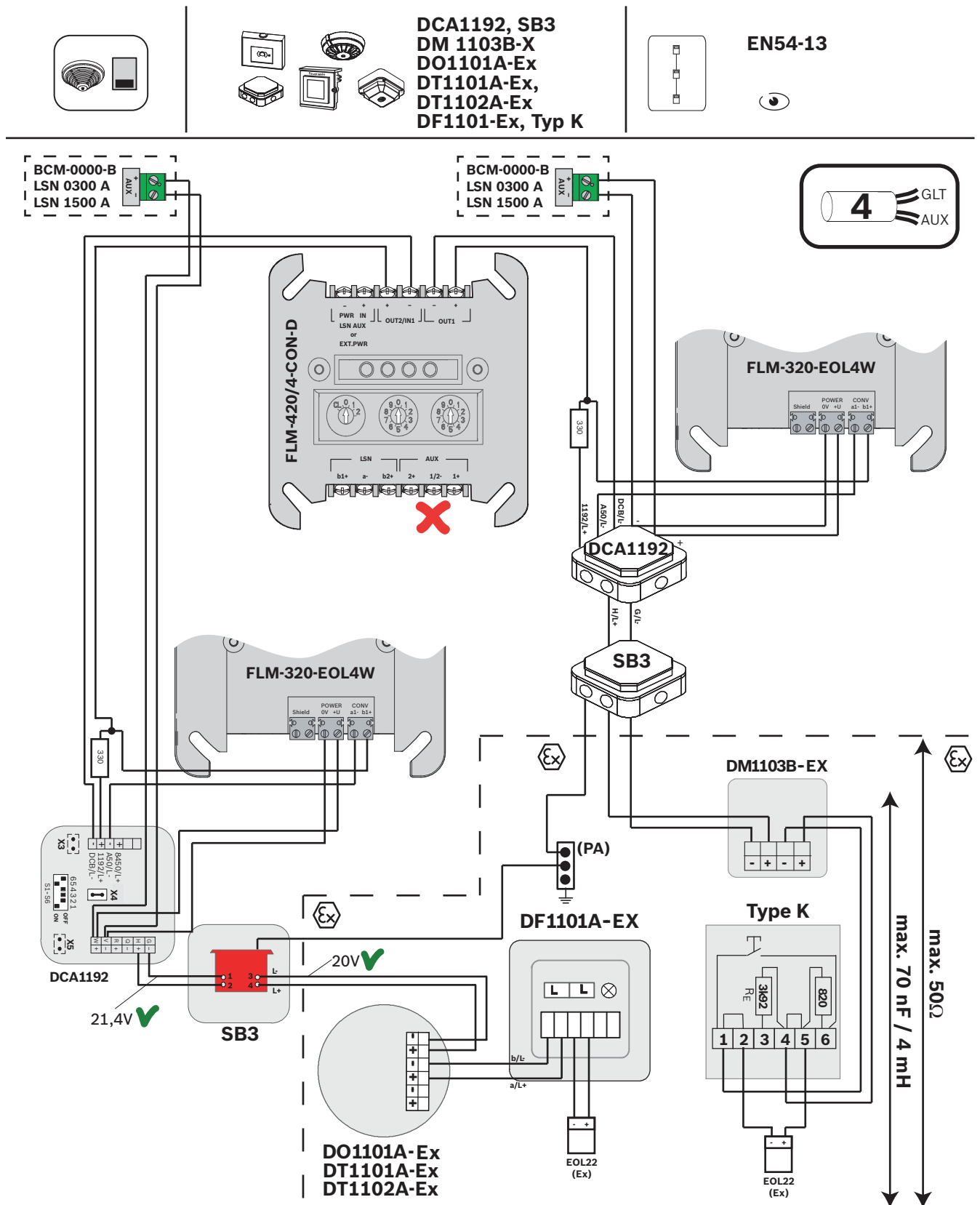


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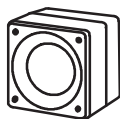
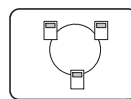
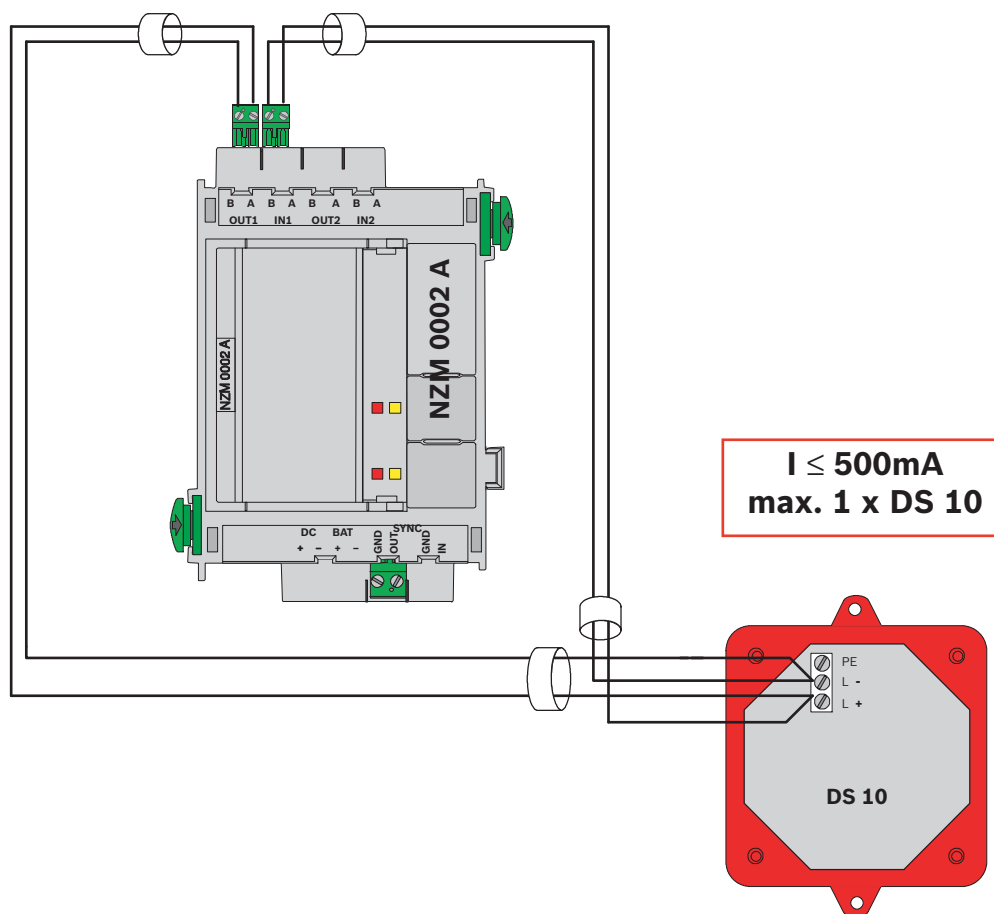


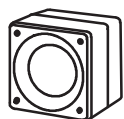
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 $\leq 100\text{m}$


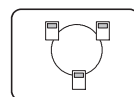


2.6.4**NZM 0002 A**

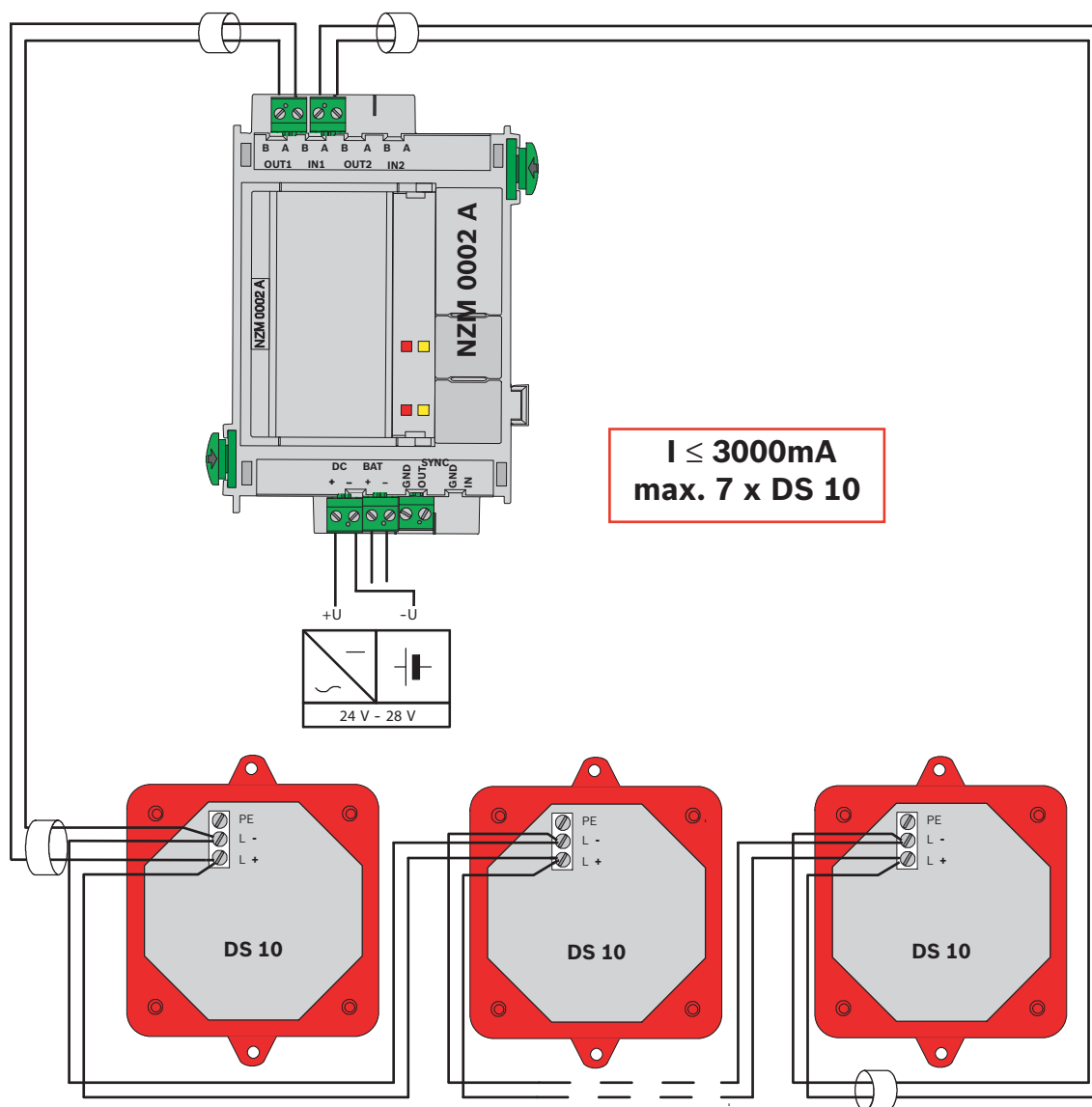
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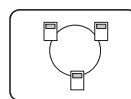
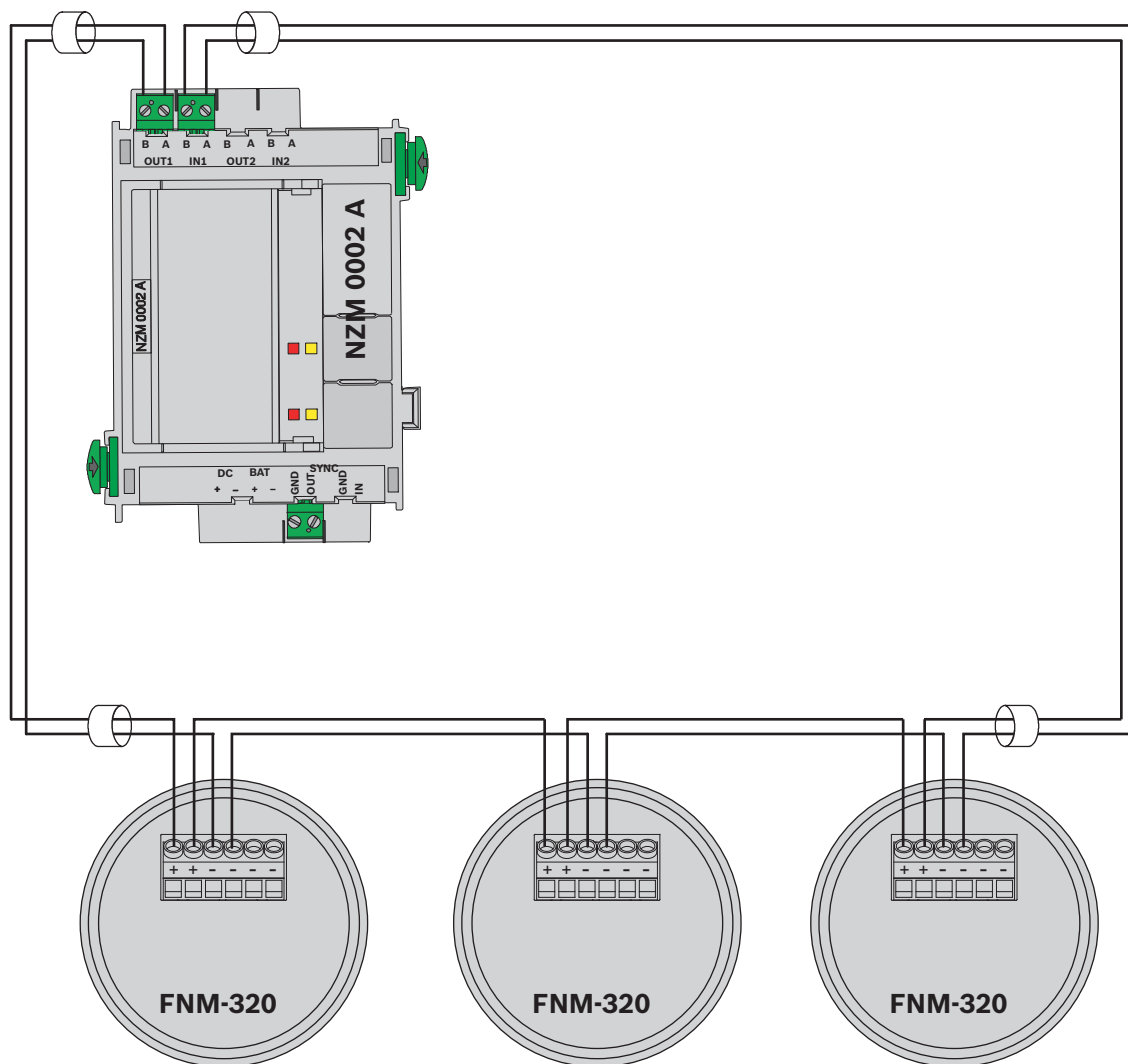


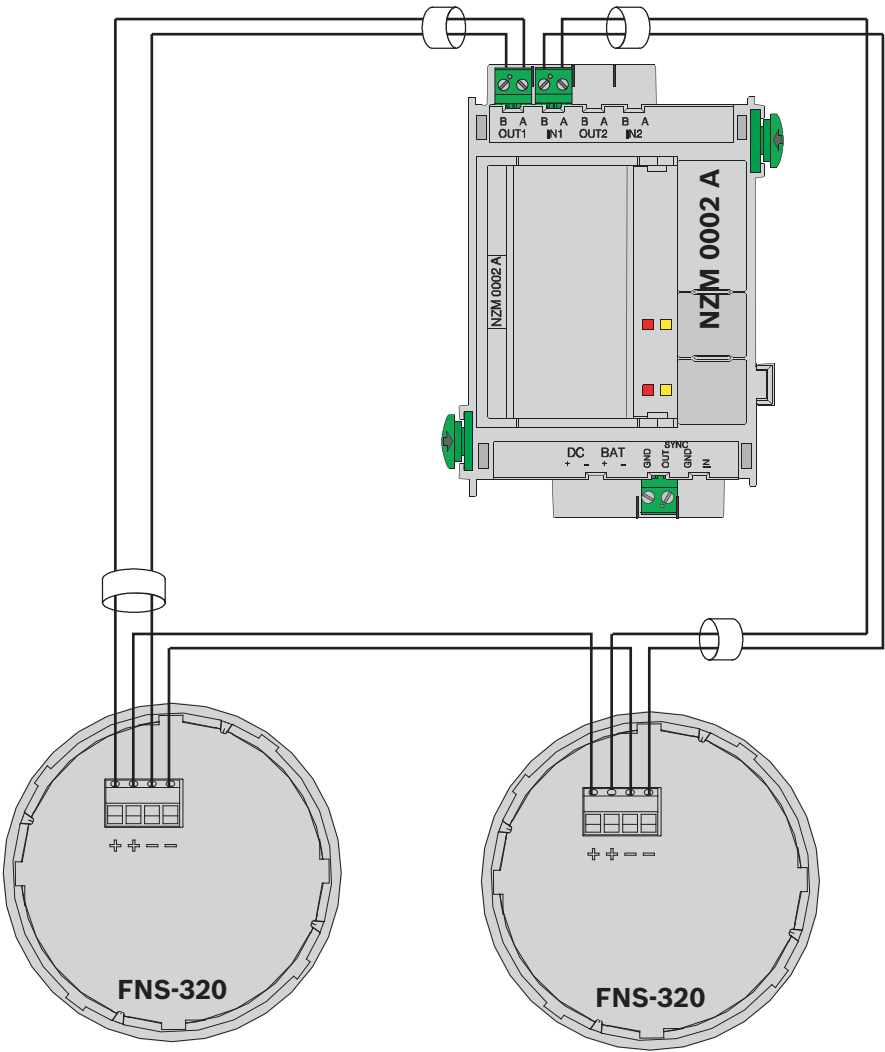
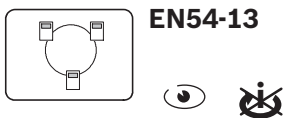
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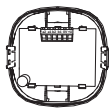
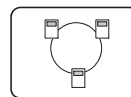
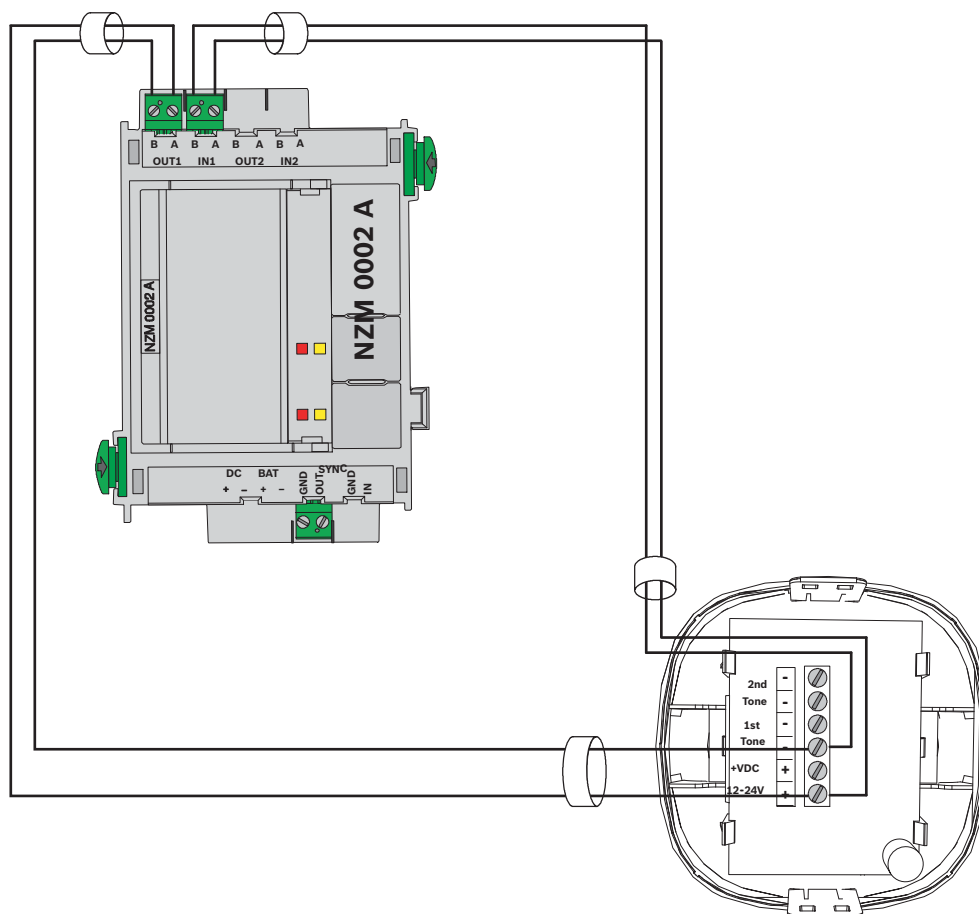


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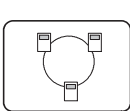
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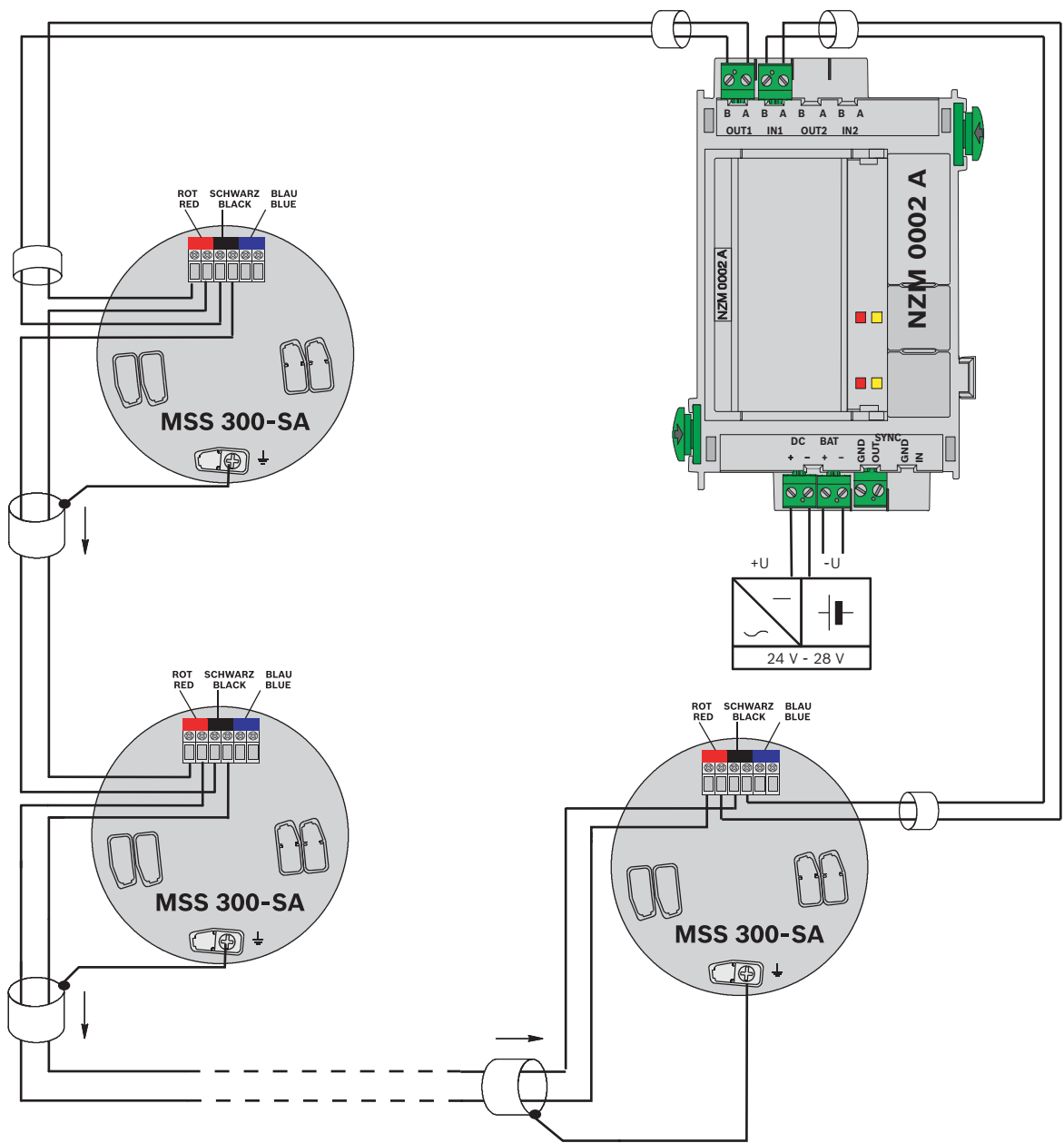
**FNM-320V-A / -B****EN54-13**

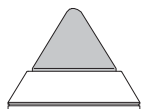
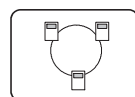
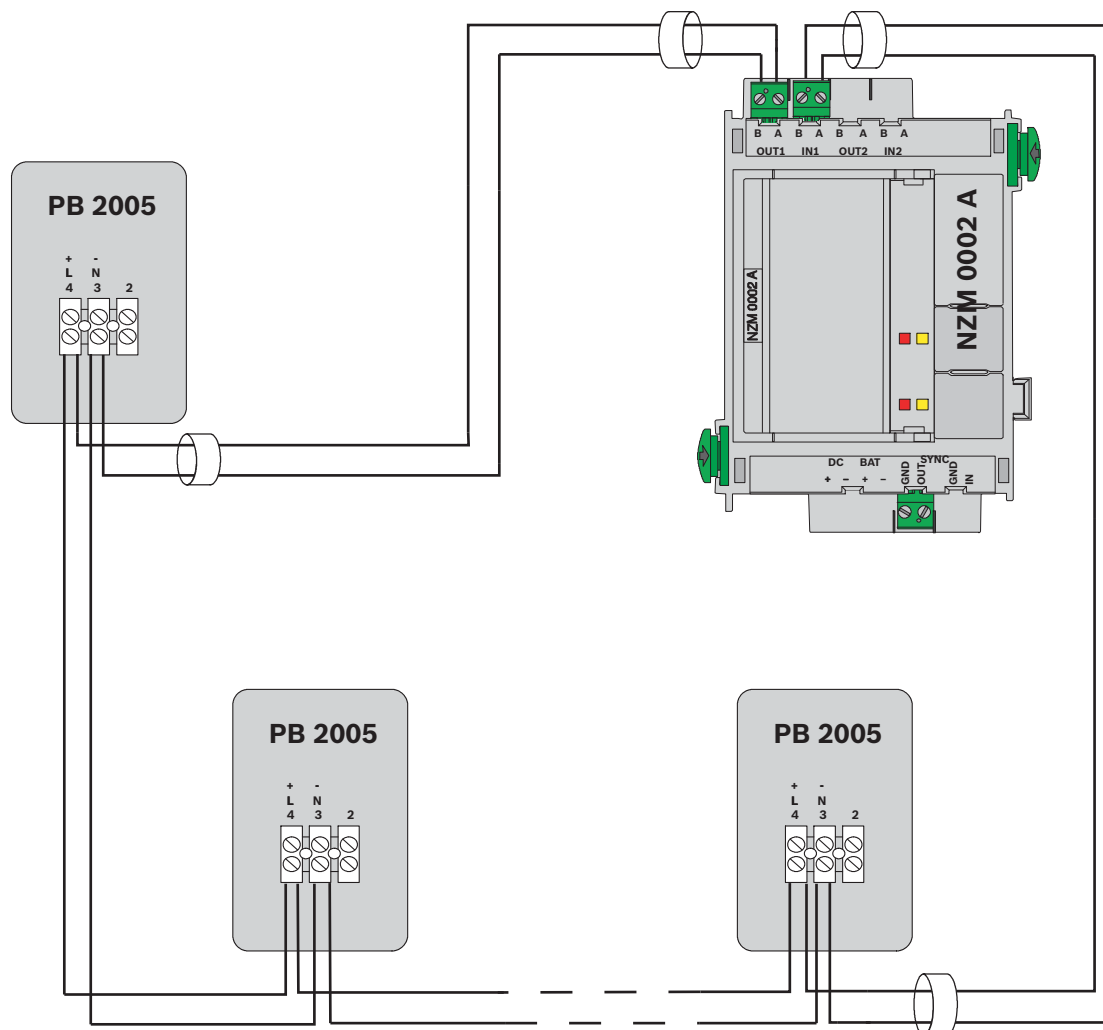


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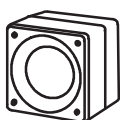
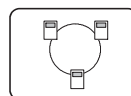
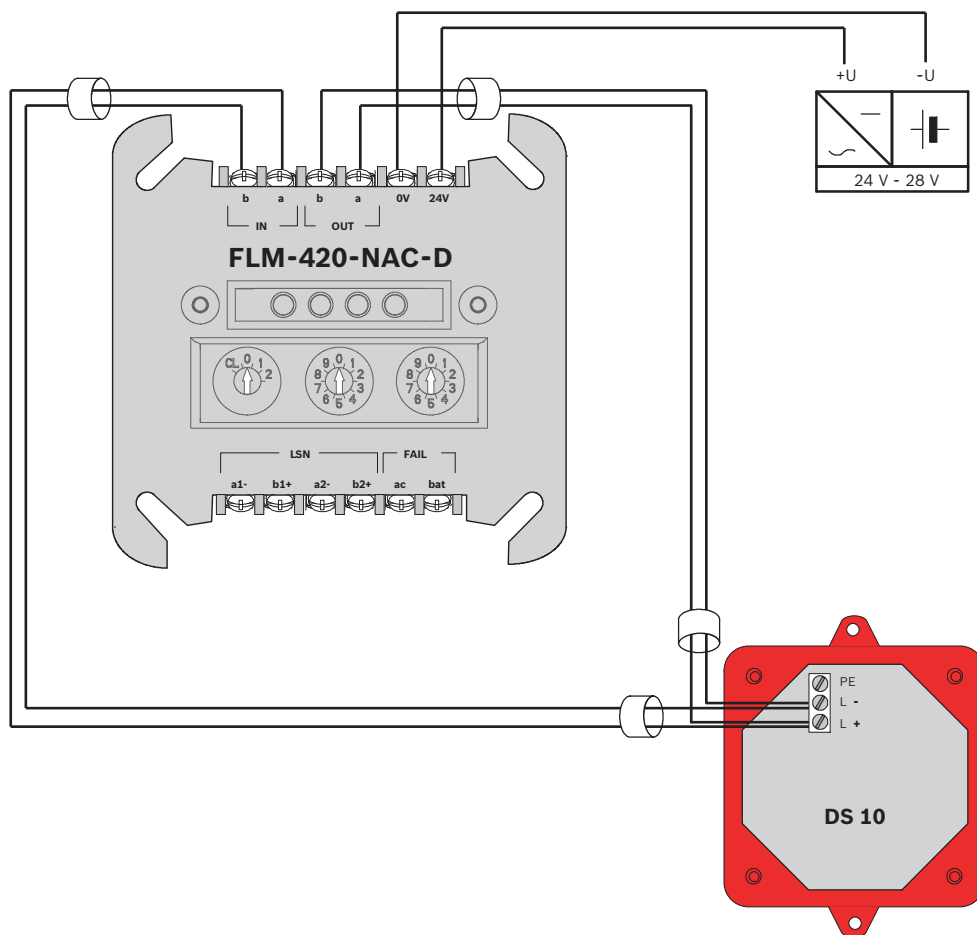


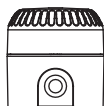
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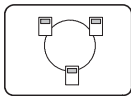
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2.6.5 FLM-420-NAC-D

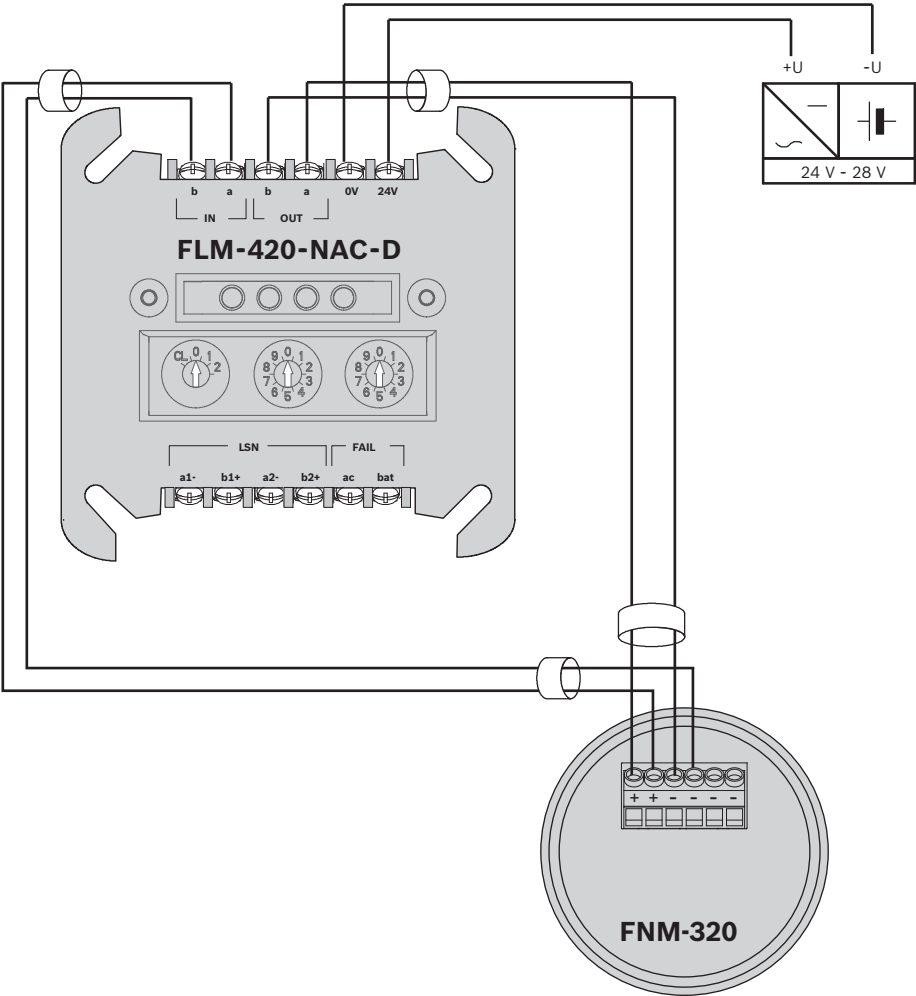
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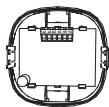


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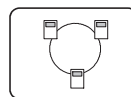


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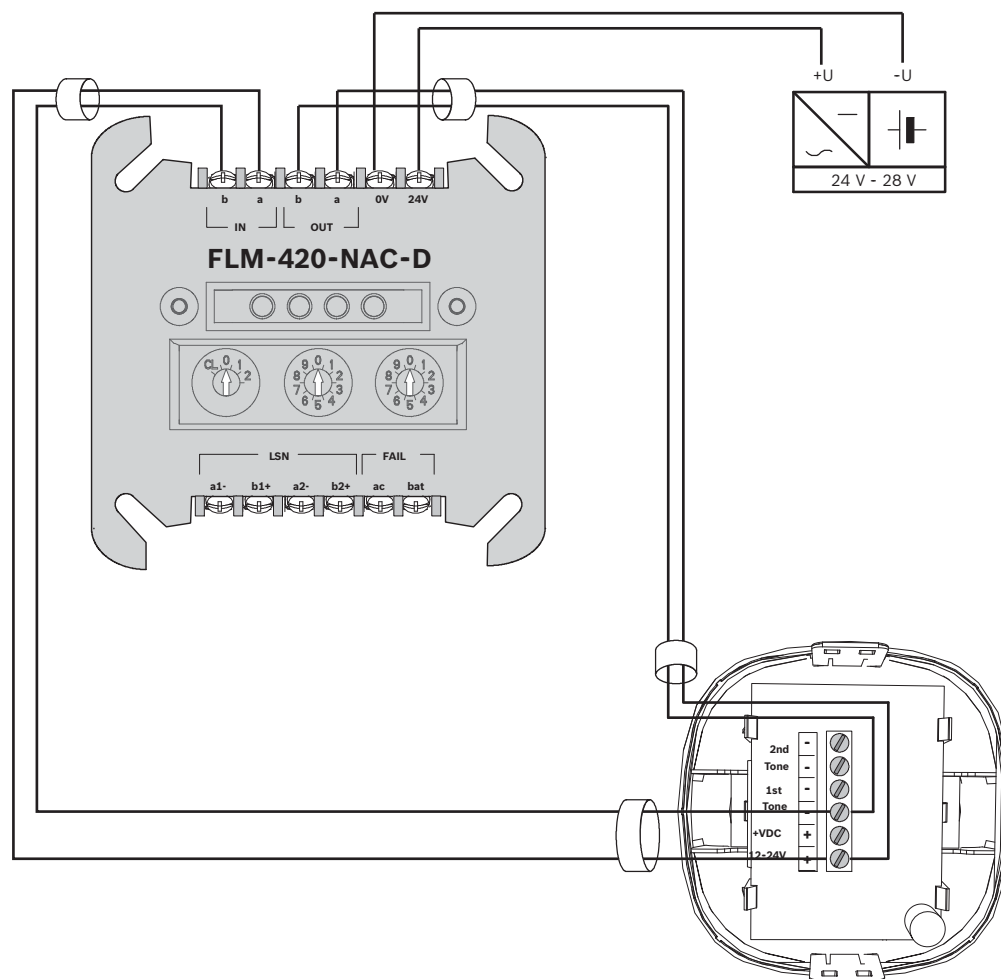


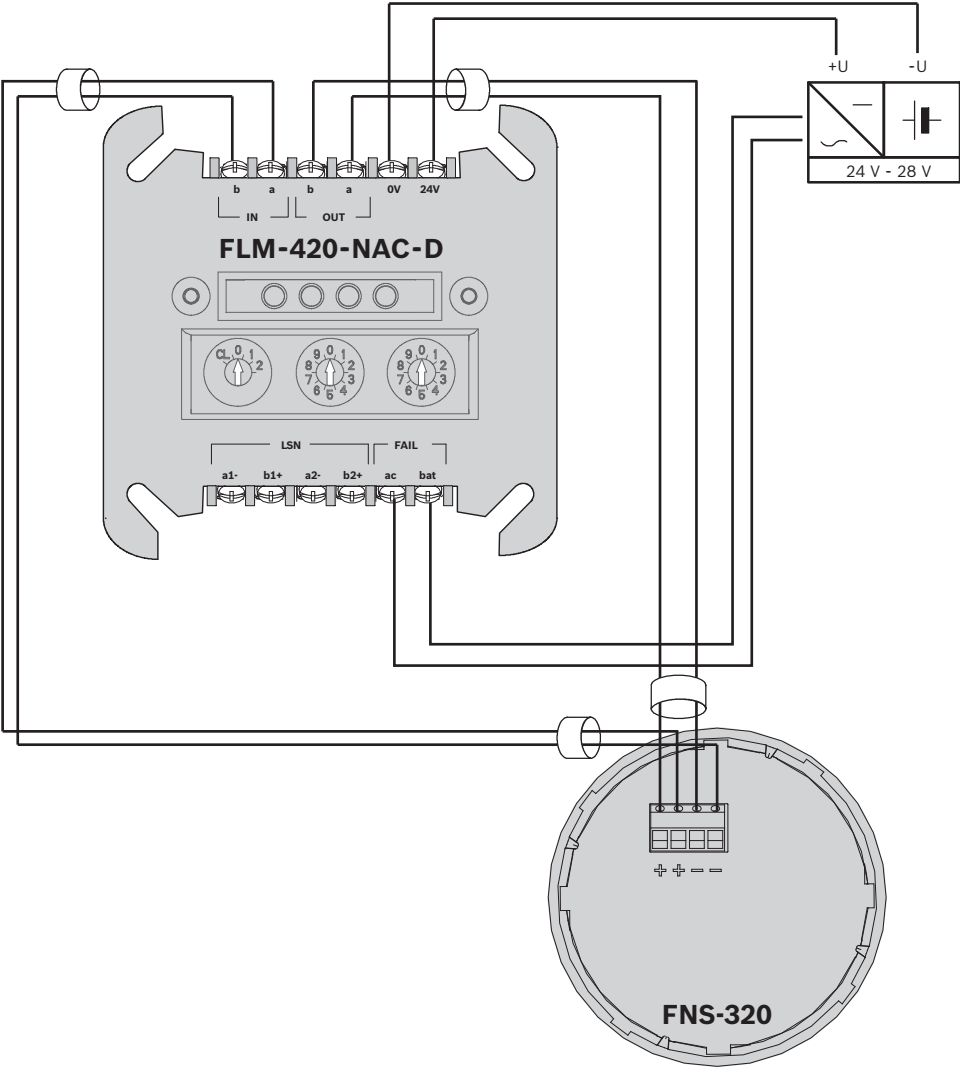
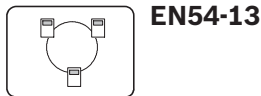


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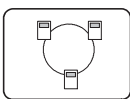
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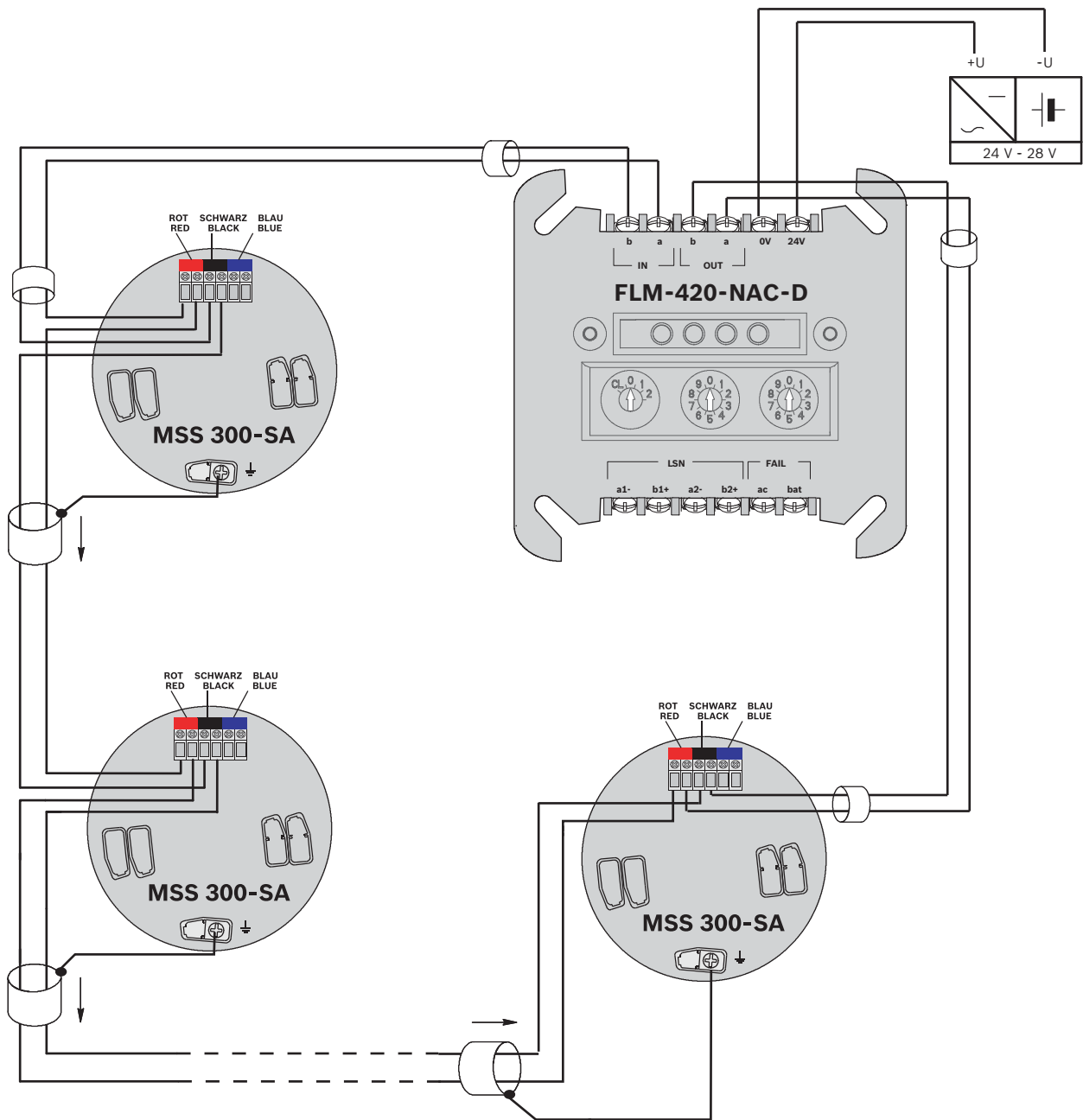


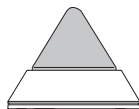
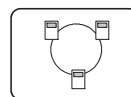
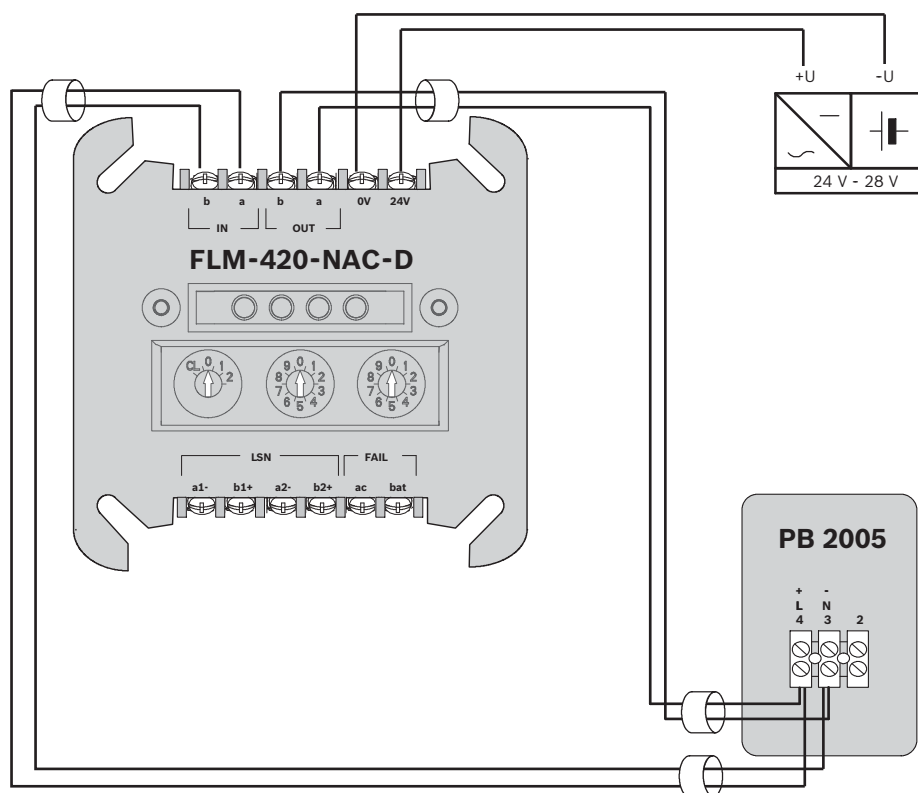


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