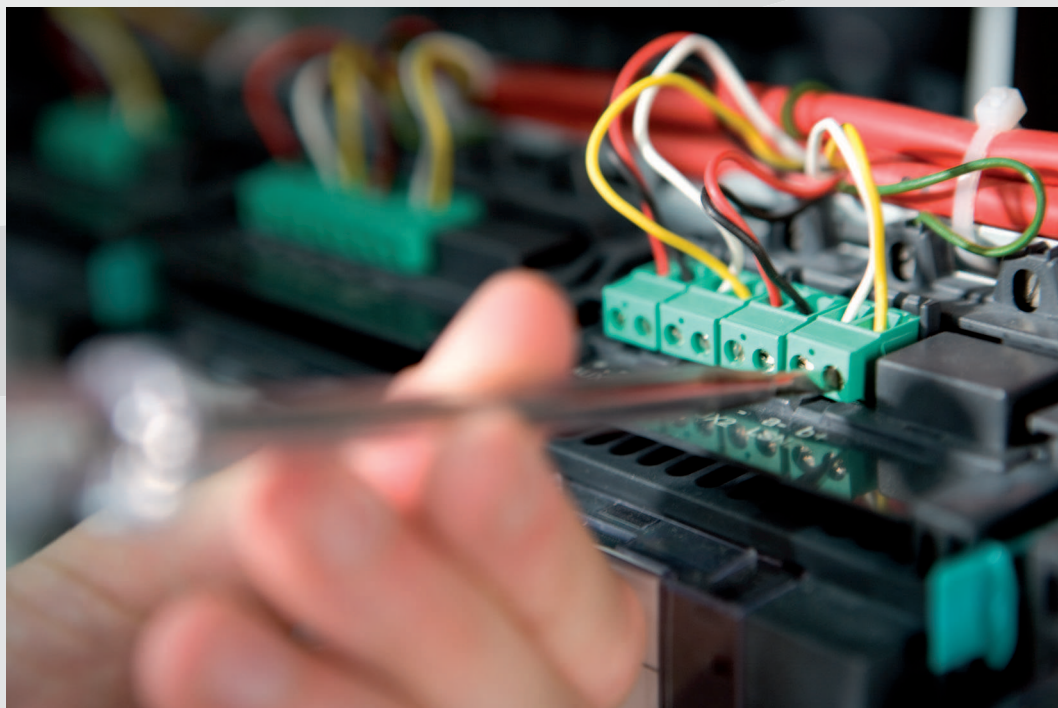




**BOSCH**

## **Αρθρωτός πίνακας πυρανίχνευσης**

FPA-5000



**el**

Οδηγός καλωδίωσης





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# 1 History

## 1.1 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 2xFPP-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

## 1.2

## 12.1 -> 12.2

### Changes

Contact -> FLM-420-4-CON-DS  
 ADW\_511 -> FLM-420-4-CON-D

DCA1192\_SB3/DM\_1103B-X/DO1101A-EX/DF1101A-EX/Typ\_K -> FLM-420-4-CON-DS  
 FCS-320-TM-Series -> CZM\_0004\_A EN54-13  
 FCS-320-TM-Series -> FLM-420-4-CON-D EN54-13  
 FCS-320-TP1-Series -> CZM\_0004\_A EN54-13  
 FCS-320-TP1-Series -> FLM-420-4-CON-D EN54-13  
 FCS-LWM-1 -> CZM\_0004\_A EN54-13  
 FCS-LWM-1 -> FLM-420-4-CON\_D EN54-13  
 Fireray\_50RV/100RV -> CZM\_0004\_A EN54-13  
 Fireray\_50RV/100RV -> FLM-420-4-CON\_D EN54-13  
 Fireray\_2000 -> CZM\_0004\_A EN54-13  
 Fireray\_2000 -> FLM-420-4-CON-D EN54-13  
 FRay5000 -> CZM\_0004\_A EN54-13  
 FRay5000 -> FLM-420-4-CON-D EN54-13  
 TSZ\_0400 -> FLM-420-4-CON-DS  
 TSZ\_0400 -> FLM-420-I2-E-W  
 TSZ\_0400 -> FLM-420-O1I1-E  
 TSZ\_0400 -> LSN\_0300\_A  
 TSZ\_0400 -> MS400  
 FNM-420-A\_-B -> LSN\_030\_A\_EN54-13  
 FNM-420-A\_-B -> LSN\_030\_A\_EN54-13  
 FNM-420-A\_-B -> LSN\_030\_A  
 FNM-420-A-BS (without detector) -> LSN\_030\_A EN\_54-13  
 FNM-420-A-BS (without detector) -> LSN\_030\_A EN\_54-13  
 FNM-420-A-BS (without detector) -> LSN\_030\_A  
 FNM-420-A-BS -> LSN\_030\_A EN54-13  
 FNM-420-A-BS -> LSN\_030\_A EN54-13  
 FPC-500 -> FLM-420-I8R1-S EN54-13  
 FNM-420-A-BS -> LSN\_030\_A  
 LA -> FLM-420-RLE  
 LWL\_Networking\_EKS\_d-light\_MPC-xxxx-B\_(FMR-5000)  
 LWL\_Networking\_EKS\_d-light\_MPC-xxxx-B\_(FMR-5000)  
 MSS\_300-WH-EC -> CZM\_0004\_A/FLM-420-NAC-D EN54-13  
 MSS\_300-WH-EC -> CZM\_0004\_A/NZM\_0002\_A EN54-13

#### Deleted

FLM-420-4-CON-D -> LSN\_0300\_A EN54-13  
 FLM-420-4-CON-D -> LSN\_0300\_A EN54-13

#### Outphased

AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B  
 AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B\_RML\_0008\_A  
 AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B\_RML\_0008\_A  
 AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B\_RML\_0008\_A  
 AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B\_RML\_0008\_A  
 AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B\_RML\_0008\_A  
 AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B  
 AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B  
 AT\_2000+ISDN+ATE\_ISDN -> ENO\_0000\_A/B  
 AT\_2000+ISDN+ATE\_ISDN -> MPC-xxxx-B  
 LA -> FLM-420-RLE

### New

FPC-500 -> FLM-420-I8R1-S\_EN54-13  
 FPC-500 -> FLM-420-O1I1\_EN54-13  
 AT\_3000 -> ENO\_0000\_B  
 UniVario, WMX-5000, KMX-5000 -> FLM-420-4-CON\_EN54-13  
 N4387A -> CZM 0004 A  
 N4387A -> CZM 0004 A EN54-13  
 N4387A -> FLM-420-4-CON  
 N4387A -> FLM-420-4-CON EN54-13  
 0165X9 -> CZM 0004 A  
 0165X9 -> CZM 0004 A EN54-13  
 0165X9 -> FLM-420-4-CON  
 0165X9 -> FLM-420-4-CON EN54-13

## 1.3

## 12.2 -> 12.3

### New

FNM-420V-A -> LSN 0300 A  
 FNM-420V-A -> LSN 0300 A EN 54-13  
 SOL-LX -> FLM-420-NZM 0002 A  
 SOL-LX -> FLM-420-NZM 0002 A EN 54-13  
 SOL-LX -> FLM-420-NAC-D  
 SOL-LX -> FLM-420-NAC-D EN 54-13  
 ROLP-W-LX, ROLP-R-LX -> NZM 0002 A  
 ROLP-W-LX, ROLP-R-LX -> NZM 0002 A EN 54-13  
 ROLP-W-LX, ROLP-R-LX -> FLM-420-NAC-D  
 ROLP-W-LX, ROLP-R-LX -> FLM-420-NAC-D EN 54-13  
 FIRERAY3000 -> CZM 0004 A  
 FIRERAY3000 -> CZM 0004 A EN 54-13  
 FIRERAY3000 -> FLM-420/4-CON-D  
 FIRERAY3000 -> FLM-420/4-CON-D EN 54-13  
 FIRERAY5000 -> CZM 0004 A  
 FIRERAY5000 -> CZM 0004 A EN 54-13  
 FIRERAY5000 -> FLM-420/4-CON-D  
 FIRERAY5000 -> FLM-420/4-CON-D EN 54-13  
 Reset action  
 TS 4000 E, TS 4000 E-IS, TS 4000 EFS, TS 5000 E, TS 5000 E-IS, TS 5000 E-ISM, TS 550 E, TSA 160 NT F, TSA 160 NT F-IS, TSA 160 F-IS/TS, Slimdrive EMD-F, Slimdrive EMD-F-IS -> FAA-MSR 420 (DIBT)  
 TS 4000 E, TS 4000 E-IS, TS 4000 EFS, TS 5000 E, TS 5000 E-IS, TS 5000 E-ISM, TS 550 E, TSA 160 NT F, TSA 160 NT F-IS, TSA 160 F-IS/TS, Slimdrive EMD-F, Slimdrive EMD-F-IS -> FLM-420-RHV (DIBT)

### Changed

MPC -> MPC (FMR 5000): MPC-xxx-C added  
 MPC (FMR 5000) + EKS d-light DL-CAN (LWL): MPC-xxx-C added  
 Analog Modem 56k -> BCM-0000-B: MPC-xxx-C added  
 Microlink ISDN I -> BCM-000-B: MPC-xxx-C added  
 FPP-5000-TI13 -> BCM-000-B: PRS-0002-C  
 UGM 2020 -> FPE-5000-UGM: MPC-xxx-C added  
 FLM-420-NAC-D -> FPP-5000

FLM-420-NAC-D -> FPP-5000 EN54-13  
 FLM-420-NAC-D -> LSN 0300 A  
 FLM-420-NAC-D -> LSN 0300 A EN 54-13  
 ED 200 -> FAA-MSR 420 (DIBT)  
 ED 200 -> FLM-420-RHV (DIBT)  
 GT xx R, 8 xx -> FAA-MSR 420 (DIBT)  
 GT xx R, 8 xx -> FLM-420-RHV (DIBT)  
 TS 73 EMF, TS 93 EMF, TS 93 GSR, BTS 80 EMB, BTS 80 FLB-> FAA-MSR 420 (DIBT)  
 TS 73 EMF, TS 93 EMF, TS 93 GSR, BTS 80 EMB, BTS 80 FLB-> FLM-420-RHV (DIBT)  
 0165X9 Flame Detector: IR3 added  
 User Notes changed, Editorial changes (EN)

#### **Outphased**

Fireray 2000 -> CZM 0004 A  
 Fireray 2000 -> CZM 0004 A EN 54-13  
 FAY5000-series -> CZM 0004 A  
 FRAY5000-series -> CZM 0004 A EN 54-13  
 Fireray2000 -> FLM-420/4-CON-D  
 Fireray2000 -> FLM-420/4-CON-D EN 54-13  
 FRAY5000-series -> FLM-420/4-CON-D  
 Fireray5000-series -> FLM-420/4-CON-D EN 54-13

## **1.4**

### **12.3 -> 12.4**

#### **New**

ATB 420 LSNi -> LSN 0300 A, ATB 420 LSNi -> LSN 0300 A (EN 54-13)  
 ATG 420 LSNi -> LSN 0300 A, ATG 420 LSNi -> LSN 0300 A (EN 54-13)  
 FAT-T-G/FAT-G-G -> FPE-5000-UGM  
 FAT-T-G/FAT-G-G -> IOS 0020 A  
 FAT5 -> FPE-5000-UGM  
 FAT5 -> IOS 0020 A  
 ED 100/ED 250 -> FAA-MSR-420, ED 100/ED 250 -> FLM-420-RHV

#### **Changed**

User Notes updated (CS, DE, EL, ES, FR, HR, HU, IT, NL, PL, PT, RO, RU, SL, TR)  
 User Notes updated (DE, EN)  
 TS 4000 E, TS 4000 E-IS, TS 4000 EFS, TS 5000 E, TS 5000 E-IS, TS 5000 E-ISM, TS 550 E, TSA 160 NT F, TSA 160 NT F-IS, TSA 160 F-IS/TS, Slimdrive EMD-F, Slimdrive EMD-F-IS -> FAA-MSR 420 (DIBT)  
 TS 4000 E, TS 4000 E-IS, TS 4000 EFS, TS 5000 E, TS 5000 E-IS, TS 5000 E-ISM, TS 550 E, TSA 160 NT F, TSA 160 NT F-IS, TSA 160 F-IS/TS, Slimdrive EMD-F, Slimdrive EMD-F-IS -> FLM-420-RHV (DIBT)  
 FIBS -> LSN 0300  
 FAA-420-RI -> FAA-MSR-420 (FAA-420-RI-DIN/FAA-420-ROW new)  
 FCP-500 -> CZM 0004 A, Sample wiring, FCP-500 -> FLM-420-4-CON-DS (MPA deleted, FAA-420-RI-DIN new)  
 DF 1192 -> FLM-420-4-CON (MPA deleted, FAA-420-RI-DIN new)  
 FAA-MSR-420 -> LSN 0300 A (MPA deleted, FAA-420-RI-DIN new)  
 FAA-500 + FAA-500-R -> LSN 0300 A (MPA deleted, FAA-420-RI-DIN new)  
 FAD 0420 -> LSN 0300 A (MPA/FAA-420-RI-DIN not possible)  
 FCS-LWM-1 -> CZM 0004 A, FCS-LWM-1 -> FLM-420-4-CON (MPA deleted, FAA-420-RI-DIN/FAA-420-RI-ROW new)

FNM-420-A-BS, FNM-420U-A-BS -> LSN 0300 A (MPA deleted, FAA-420-RI-DIN new)  
 MSS-300-WH-EC, MSS-300-WS -> CZM 0004 A (MPA deleted, FAA-420-RI-DIN new)  
 MSS-300, MS-400, MSF-400 -> FLM-420/4-CON (MPA deleted, FAA-420-RI-DIN new),  
 MS-400 -> LSN 0300 (MPA deleted, FAA-420-RI-DIN new)  
 MS-400 -> CZM 0004 A (MPA deleted, FAA-420-RI-DIN/FAA-420-RI-ROW new)  
 FPC-500 -> FLM-420-I8R1-S, FPC-500 -> FLM-420-O1I1-E deleted

#### Outphased

BS ATG 100 LSN -> LSN 0300 A, BS ATG 100 LSN -> LSN 0300 A EN 54-13  
 ED 200 -> FAA-MSR-420, ED 200 -> FLM-420-RHV  
 MSR 320 -> CZM 0004 A, MSR 320 -> FLM-420-4-CON

## 1.5

## 12.4 -> 12.5

#### New

ASD 535-2 -> FLM-420-4-CON  
 FAT4000, FBF4000, ADP4000 (FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3, FMF-ADP) -  
 > IOS 0020 A 2x  
 FAT4000, FBF4000, ADP4000 (FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3, FMF-ADP) -  
 > UEZ2000  
 FAT4000, FBF4000, ADP4000 (FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3, FMF-ADP) -  
 > BZ500  
 FCS-320-TP2 -> FLM-420-4-CON 2x, FCS-320-TP2 -> CZM 0004 A 2x

#### Changed

AT3000 -> ENO 0000 A/B (product name AT3000)  
 FLM-420-NAC-DS -> LSN 0300 A, FPP-5000 -> FLM-420-NAC-D,  
 Plena -> FLM-420-RLV1-E, Plena -> FLM-420-RLV8-S, Plena -> IOS\_0020\_A (product name FPA)  
 FAA-MSR-420 -> LSN 0300 A, FAA-420-RI -> FAA-MSR-420 (C point connection not allowed)  
 FAT 2002 RE -> IOS 0020 A + MPC-xxxx-B, FAT 2002 RE -> IOP 0008 A + IOS 0020 A, FAT 2002  
 RE -> FLM-420-I2-D + IOS 0020 A (power supply)  
 FAT5 -> FPE-5000-UGM, FAT5 -> IOS 0020 A (fault relay, polarity)  
 FAT-T-G/FAT-G-G -> FPE-5000-UGM, FAT-T-G/FAT-G-G -> IOS 0020 A (TTY-interface)  
 FCA-500-EU -> CZM 0004 A 2x, FCA-500-EU -> FLM-420-4-CON 2x (labeling connections)  
 FLM-420-4-CON-D -> LSN 0300 3x (delete unnecessary lines)  
 FLM-420-NAC-DS -> LSN 0300 6x, FPP-5000 -> FLM-420-NAC (FLM-420-NAC labeling: a + b -)  
 FMR-5000 -> BCM-0000-B (redundancy symbol added)  
 Fireray 50RV/100RV -> FLM-420/4-CON-D 2x, Fireray 50RV/100RV -> CZM 2x (key switch ->  
 reset)

User Notes updated, order of chapters

#### Deleted

FPC-500 -> FLM-420-I8R1-S EN54-13, FPC-500 -> FLM-420-O1I1 EN54-13

#### Outphased

ADW 511 A -> CZM 0004 A  
 ADW 511 A -> FLM-420/4-CON-D/S  
 ADW 511 A -> FLM-420/4-CON-D/S (EN 54-13)  
 BGÜ 40/30 -> ENO 000 A/ENO 000 B  
 BGÜ 40 -> ENO 000 A/ENO 000 B  
 TUS 35 -> ENO 000 A/ENO 000 B

SD 3, FSD 2003, FNSK -> ENO 0000 A/ENO 000 B  
 SD 12 V, FNSK -> ENO 0000 A/ENO 000 B/  
 SD 3, SD 24 V, FNSK -> ENO 0000 A/ENO 000 B  
 SD 3, SD 24 V, FSE -> ENO 0000 A/ENO 000 B  
 SD 12 V, FSE -> ENO 0000 A/ENO 000 B  
 SD 3, SD 24 V, FSE -> ENO 0000 A/ENO 000 B  
 FAT 2002 -> IOS 0020 A  
 FIBS -> LSN 0300 A 3x

## 1.6

### 12.5 -> 12.6

#### Changed

FAT4000, FBF4000, ADP4000 (FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3, FMF-ADP) -  
 > IOS 0020 A (EN 54-13) 2x  
 FAT4000, FBF4000, ADP4000 (FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3, FMF-ADP) -  
 > FPE-5000-UGM (EN 54-13)  
 FAT4000, FBF4000, ADP4000 (FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3, FMF-ADP) -  
 > FMF-ADP-FBF/FMF-ADP-TTY (EN 54-13) 2x  
 AT3000 IP/GSM, AT3000 IP/GSM/Analog, AT3000 IP/GSM/ISDN -> ENO 0000 A/B (name)

#### Outphased

FAT4000, FBF4000, ADP4000 (FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3, FMF-ADP) -  
 > UEZ2000 (EN 54-13) 2x  
 FAT4000, FBF4000, ADP4000 (FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3, FMF-ADP) -  
 > BZ500 (EN 54-13) 2x

## 1.7

### 12.6 -> 12.7

#### Changed

EN 54-13 symbol deleted, ELS symbol new  
 User notes updated, Merge symbols for Power supply via the panel and External power supply (EN)  
 Order of chapters Chapter EN 54-13 -> EOL, Loop wirings without EOL modules moved  
 0165X9 -> 016519, 016589  
 ASD 535-2 -> FLM-420/4-CON (ELS)  
 3 x FLM-420-O8I2-S -> LSN 0300  
 2 x DC1192, SB3 -> FLM-420/4-CON-DS (OOH740-A9-Ex added)  
 3 x FLM-420-O1I1 series -> LSN 0300  
 FLM-420-NAC-D -> BCM-0000-B, MSS 300-SA -> FLM-420-NAC-D (erroneous 2k2 relais indication)  
 FLM-420-NAC-D/S -> LSN 0300 A (Flush symbol added)  
 Fireray 50RV & 100RV -> FLM-420/4-CON/D (LSN AUX added)  
 2 x FCP-500 -> FLM-420-NAC (switched wires)

#### Deleted

3 x FLM-420-O8I2-S (use cases) -> LSN 0300, 1 x FLM-420-I8R1-S (use case)-> LSN 0300  
 4 x FLM-420-O2 -> LSN 0300  
 1 x FLM-420-O1I1-E -> LSN-0300-A

#### New

ADW 535-1 -> FLM-420/4-CON (ELS), ADW 535-2 -> FLM-420/4-CON (ELS)  
 ASD 535-1 -> FLM-420/4-CON (ELS)  
 FCS-LHD-2 -> CZM 0004 A, FCS-LHD-2 -> CZM 0004 A (ELS)  
 FCS-LHD-2 -> FLM-420/4-CON, FCS-LHD-2 -> FLM-420/4-CON (ELS)



## 1.8

OSID -> FLM-420/4-CON (ELS)  
thefirebeam -> FLM-420/4-CON (ELS)  
ASD 532 -> FLM-420/4-CON (ELS)

## 12.7 -> 12.8

### New

AT5000 -> ENO 0000 B

### Changed

Editorial changes: Index, VdS 2489 added (ELS wirings)

Naming:

- 2x DCA1192 -> DC1192
- 2x DKM Typ K Ex-97 -> 2014/2 Ex, 2014/2 GLU-Ex
- 11x Base name, graphic -> Detector name, graphic
- Delete FCP-520
- FMC-420RW -> FMC-420RW-HSGRD FMC-420RW-HSRRD FMC-420RW-GFGRD  
FMC-420RW-GFRRD FMC-420RW-GSGRD FMC-420RW-GSRRD
- UniVario WMX-5000 -> UniVario WMX5000
- UniVario KMX-5000 -> UniVario KMX5000
- UniVario FMX5000 added

ELS descriptions in 2.4.2 (DE, EN)

2x DS 10 -> NZM 0002 A (connection B->L- corrected)

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

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

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

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

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

FLM-420-O1I1 -> LSN 0300

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

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

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

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

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

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

Reset action

5 x FAT4000 (shield)

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

### Deleted

Löschanlage -> FB1 (of RMH 000 2 A, application discontinued since Wiring Guide 12.2)

Section Networking (see Networking guide)

Section Operating and display panels (see Installation guide of remote keypad)

AT3000 IP/GSM/ISDN -> ENO 0000 A/B

37 x 2-wire cabling -> CZM 0004 A

## 2 Σημειώσεις

### 2.1 Περιεχόμενα

Το παρόν διάγραμμα καλωδίωσης δείχνει πώς συνδέονται οι περιφερειακές συσκευές στον πίνακα πυροπροστασίας.

Οι περιφερειακές συσκευές που δεν συμπεριλαμβάνονται πλέον στη σειρά προϊόντων καλύπτονται στο "Part 2 - Discontinued Products" του διαγράμματος καλωδίωσης.



#### Γνωστοποίηση!

Οι συνδέσεις που παρουσιάζονται στο παρόν εγχειρίδιο εφαρμόζονται επίσης στον πίνακα πυροπροστασίας FPA-1200, εφόσον τα μεμονωμένα εξαρτήματα αποτελούν εγκεκριμένες από την Bosch Sicherheitssysteme GmbH επεκτάσεις του πίνακα πυροπροστασίας FPA-1200.



#### Γνωστοποίηση!

Οι συνδέσεις του LSN 0300 A που παρουσιάζονται στο παρόν έγγραφο ισχύουν και για το δομοστοιχείο LSN 1500 A.

### 2.2 Πληροφορίες προϊόντων

- Μπορείτε να βρείτε οδηγίες εγκατάστασης για τα μεμονωμένα εξαρτήματα του πίνακα πυροπροστασίας στο περιλαμβανόμενο Εγχειρίδιο εγκατάστασης.

### 2.3 Σημαντικές σημειώσεις

- Χρησιμοποιείτε τα υλικά εγκατάστασης μόνο σύμφωνα με τις συστάσεις της Bosch Security Systems.
- Εκτελείτε εργασίες μετατροπής και συγκόλλησης μόνο φορώντας περικάρπιο γείωσης.
- Οι εργασίες συναρμολόγησης και εγκατάστασης πρέπει να εκτελούνται μόνο από κατάλληλα εκπαιδευμένο προσωπικό.
- Προσέχετε τα κριτήρια σύνδεσης των περιφερειακών αρχών/υπηρεσιών.



#### Κίνδυνος!

Η επαφή με εξαρτήματα με ηλεκτρική τάση μπορεί να αποβεί μοιραία.  
Αποσυνδέετε την παροχή ισχύος πριν από εργασίες εγκατάστασης.



#### Γνωστοποίηση!

Αν ο αγωγός της θωράκισης του καλωδίου LSN πρέπει να συνδέεται, τότε προχωρήστε σύμφωνα με τις προδιαγραφές LSN.

- Συνδέστε τη θωράκιση του καλωδίου LSN της πλευράς του πίνακα στον αντίστοιχο λειτουργικό σύνδεσμο γείωσης. Η θωράκιση και των δύο πλευρών (αρχής και τέλους) του βρόχου πρέπει να συνδέεται στον πίνακα

- Συνδέστε στον βρόχο διέλευσης τη θωράκιση καλωδίου σε όλες τις περιφερειακές συσκευές LSN με χρήση των παρεχόμενων ακροδεκτών

- Δεν επιτρέπεται επιπλέον σύνδεση σε θωράκιση καλωδίου LSN, ούτε σε συνδέσμους γείωσης σε οποιαδήποτε θέση ούτε σε άλλους ηλεκτρικούς ακροδέκτες.

### 2.4 Σημειώσεις χρήση

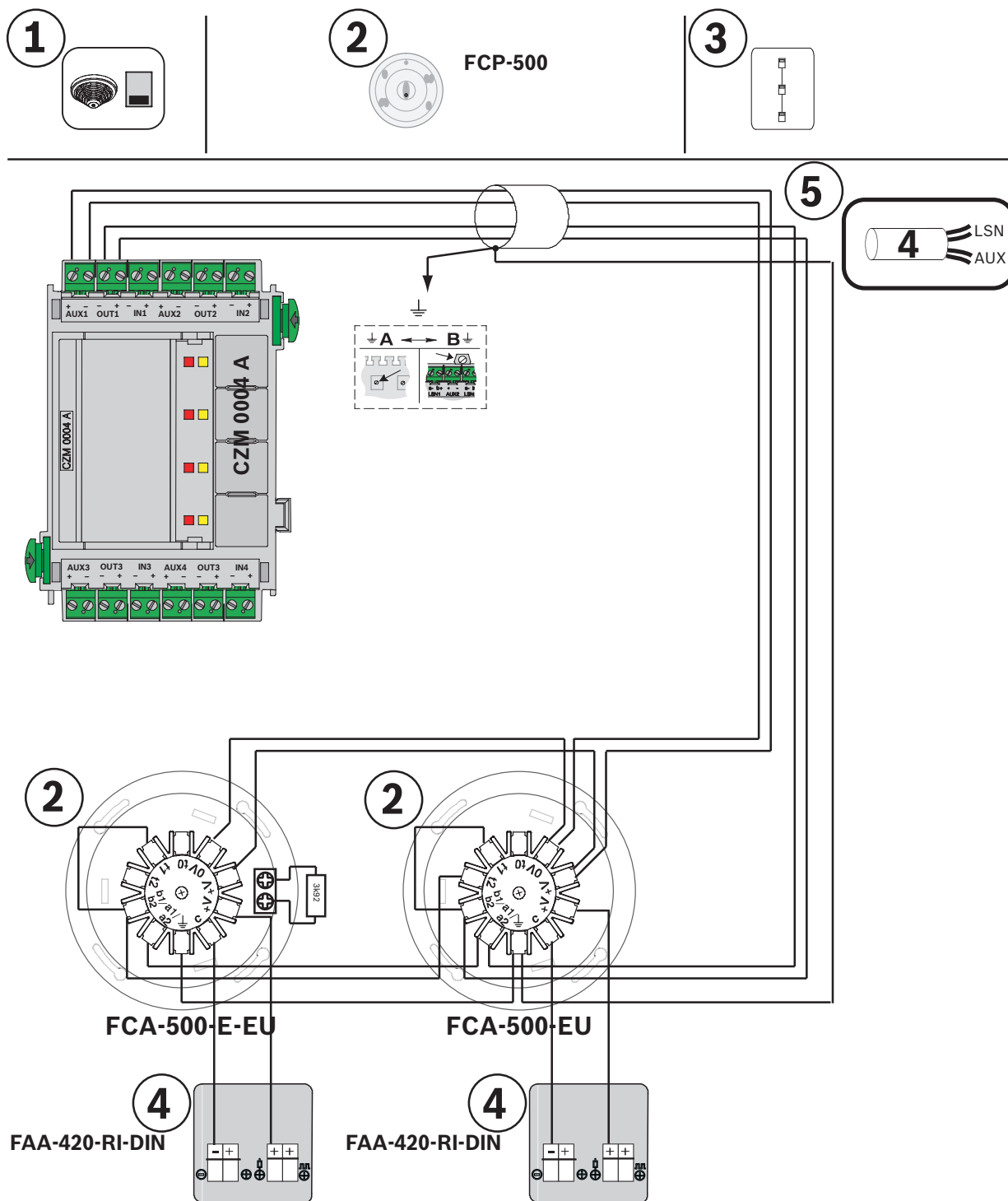
Το παρόν διάγραμμα καλωδίωσης παρουσιάζεται ως εξής:

- Το κεφάλαιο *Ενσωμάτωση, σελίδα 19* είναι ταξινομημένο βάσει της συσκευής στην οποία είναι συνδεδεμένη μια περιφερειακή συσκευή. Η καλωδίωση δείχνει την απευθείας σύνδεση μιας συσκευής σε άλλη (χωρίς επικαλυπτόμενες συνδέσεις). Συνήθως, η θωράκιση δεν φαίνεται στις καλωδιώσεις. Το παρακάτω παράδειγμα καλωδίωσης υποδεικνύει τη θωράκιση.
- Θα βρείτε μια συλλογή όλων των καλωδιώσεων που είναι εμπλουτισμένες με πρόσθετα δομοστοιχεία EOL για σταδιακή ανοικτή παρακολούθηση στην ενότητα EOL.

Για να βρείτε την απαιτούμενη καλωδίωση, χρησιμοποιήστε επίσης τα εξής:

- τους πίνακες περιεχομένων στην αρχή του κεφαλαίου *Ενσωμάτωση, σελίδα 19* και στην αρχή των ενότητων *Λειτουργικά δομοστοιχεία, σελίδα 49*, *Δομοστοιχεία διασύνδεσης, σελίδα 137* και EOL.
- το Index (ανεξάρτητα από τη γλώσσα),
- και την αναζήτηση πλήρους κειμένου.

Βλ. το παρακάτω δείγμα καλωδίωσης:



|   |                                                                  |
|---|------------------------------------------------------------------|
| 1 | Σύμβολα κεφαλαίου (Σύμβολα κεφαλαίου, σελίδα 15)                 |
| 2 | Συνδεόμενη περιφερειακή συσκευή                                  |
| 3 | Σύμβολα σύνδεσης (Σύμβολα σύνδεσης, σελίδα 15)                   |
| 4 | Προαιρετικά εξαρτήματα                                           |
| 5 | Τροφοδοτικό και καλωδίωση (Τροφοδοτικό και καλωδίωση, σελίδα 17) |

**Ανατρέξτε στο**

– EOL, σελίδα 181

**2.4.1 Σύμβολα κεφαλαίου**

|                                                                                   |                        |                                                                                   |                                 |                                                                                     |                                    |
|-----------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
|  | Αυτόματοι ανιχνευτές   |  | Πίνακες χειρισμού και ενδείξεων |  | Εκτυπωτής                          |
|  | Τροφοδοτικό            |  | Λειτουργικά δομοστοιχεία        |  | Εξοπλισμός πυροσβεστικής υπηρεσίας |
|  | Μονάδες διασύνδεσης    |  | Συστήματα πυρόσβεσης            |  | Κομβία αναγγελίας συναγερμού       |
|  | Συσκευές σηματοδότησης |  | Έλεγχοι πόρτας                  |  | Μονάδες μετάδοσης                  |
|  | Δικτύωση               |                                                                                   |                                 |                                                                                     |                                    |

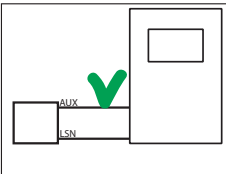
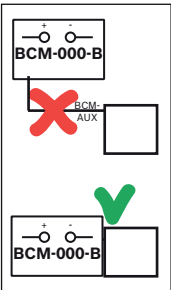
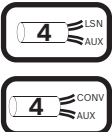
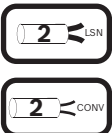
**2.4.2 Σύμβολα σύνδεσης**

|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------|
|   | Παρακολουθούμενη/μη παρακολουθούμενη σύνδεση συμβατικής περιφερειακής συσκευής ή παρακολουθούμενη/μη παρακολουθούμενη συμβατική γραμμή κυκλώματος συσκευής ειδοποίησης. (Τερματική αντίσταση στη σύνδεση CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A ή στις συνδέσεις ξηρής επαφής με το δομοστοιχείο διασύνδεσης.) |   | Στη συγκεκριμένη σύνδεση συμβατικής περιφερειακής συσκευής μπορεί να συνδεθεί μια γραμμή ανάδρασης. / Το διαγραμμένο σύμβολο σημαίνει ότι δεν είναι απαραίτητη ή δεν συνιστάται μια γραμμή ανάδρασης. (Συνδέσεις FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A) Μια γραμμή εισόδου μπορεί να χρησιμοποιηθεί και ως γραμμή ανάδρασης (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1...). |    | Πλεονασμός                                        |
|                                                                                  | Καλωδίωση βρόχου                                                                                                                                                                                                                                                                                                            |                                                                                  | Καλωδίωση βρόχου με εφεδρικό στοιχείο                                                                                                                                                                                                                                                                                                                                                   |  | Καλωδίωση στελέχους                               |
|                                                                                  | Εφεδρική καλωδίωση στελέχους                                                                                                                                                                                                                                                                                                |                                                                                  | Καλωδίωση στελέχους με εφεδρικό στοιχείο                                                                                                                                                                                                                                                                                                                                                |  | Εφεδρική καλωδίωση στελέχους με εφεδρικό στοιχείο |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                      |                     |                                                                                                                                   |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ELS   | <p>Η καλωδίωση αυτή συμμορφώνεται με το VdS 2543. Το ακρωνύμιο ELS προέρχεται από τον όρο Extended Line Supervision, το οποίο σημαίνει σταδιακό βραχυκύκλωμα και σταδιακή ανοικτή παρακολούθηση. Η συγκεκριμένη καλωδίωση παρέχει τη δυνατότητα ELS.</p> <p>Θα βρείτε όλες τις καλωδιώσεις που είναι εμπλουτισμένες με πρόσθετα δομοστοιχεία EOL για σταδιακή ανοικτή παρακολούθηση στο κεφάλαιο EOL. Ένα σταδιακό βραχυκύκλωμα εντοπίζεται από τα εξής δομοστοιχεία: LSN 0300 A, LSN 1500 A και BCM-0000-B όταν χρησιμοποιείται το FPP-5000-TI13.</p> |       | Αυτή η καλωδίωση βρόχου συμμορφώνεται με το VdS 2543. Προσφέρει ELS. Πρόσθετα δομοστοιχεία EOL δεν είναι απαραίτητα. |                     | Συγχρονισμός                                                                                                                      |
|       | Περιοχές με κίνδυνο έκρηξης                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | Πίνακας                                                                                                              |                     | Αυτόνομος πίνακας                                                                                                                 |
|       | Αυτόνομος πίνακας με πλεονασμό                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | Δεν επιτρέπεται                                                                                                      |                     | Για βάσεις ανιχνευτή: Η καλωδίωση αφορά αποκλειστικά και μόνο τη βάση του ανιχνευτή στην οποία είναι εγκατεστημένος ο ανιχνευτής. |
| ----- | Προαιρετική καλωδίωση                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | _____ | Υποχρεωτική καλωδίωση                                                                                                | EN 54-2, DIBT κ.λπ. | Εάν απαιτείται συμμόρφωση με αυτό το πρότυπο, τότε χρησιμοποιήστε την προβλεπόμενη καλωδίωση.                                     |

## 2.4.3

## Τροφοδοτικό και καλωδίωση

|                                                                                     |                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Πρόσθετο τροφοδοτικό                                                                                                                                                                                                                       |
|    | <b>Τροφοδοσία μέσω του πίνακα</b><br>Το τροφοδοτικό ενδέχεται να διατίθεται ξεχωριστά από το στοιχείο.                                                                                                                                     |
|    | <b>Τροφοδοσία μέσω του πίνακα / εξωτερικής μονάδας τροφοδοσίας</b><br>Το στοιχείο τροφοδοτείται από το BCM-000-B. Το στοιχείο πρέπει να στερεώνεται, έτσι ώστε να ευθυγραμμίζεται με το περίβλημα του προϊόντος που περιέχει το BCM-000-B. |
|    | Η καλωδίωση αποτελείται από σύνδεση 4 καλωδίων.<br>Διαφορετικά, αποτελείται από σύνδεση 2 καλωδίων.                                                                                                                                        |
|  | Η καλωδίωση αποτελείται από σύνδεση 2 καλωδίων.                                                                                                                                                                                            |
|  | Ανατρέξτε στην καλωδίωση στο παρόν εγχειρίδιο.                                                                                                                                                                                             |
|  | Ανατρέξτε στην τεχνική βιβλιογραφία της συνδεδεμένης περιφερειακής συσκευής.                                                                                                                                                               |

## 2.5

## Τιμές αντίστασης

Ο ακόλουθος πίνακας παρέχει μια ανασκόπηση της χρωματικής κωδικοποίησης των αντιστάσεων. Οι αντιστάσεις μεταλλικής μεμβράνης που παρέχονται με το προϊόν έχουν 5 χρωματιστούς δακτυλίους, οι οποίοι υποδεικνύουν την τιμή της αντίστασης.

| Χρωματιστός | 1. δακτύλιος | 2. δακτύλιος | 3. δακτύλιος | 4. δακτύλιος (πολλαπλασιαστής) | 5. δακτύλιος (ανοχή) |
|-------------|--------------|--------------|--------------|--------------------------------|----------------------|
| Ασημί       |              |              |              | $10^{-2}$                      | $\pm 10\%$           |
| Χρυσό       |              |              |              | $10^{-1}$                      | $\pm 5\%$            |
| Μαύρο       |              | 0            | 0            | $10^0$                         |                      |
| Καφέ        | 1            | 1            | 1            | $10^1$                         | $\pm 1\%$            |
| Κόκκινο     | 2            | 2            | 2            | $10^2$                         | $\pm 2\%$            |
| Πορτοκαλί   | 3            | 3            | 3            | $10^3$                         | $\pm 0.05\%$         |

| Χρωματιστός | 1.<br>δακτύλιος | 2.<br>δακτύλιος | 3.<br>δακτύλιος | 4. δακτύλιος<br>(πολλαπλασιαστής) | 5. δακτύλιος<br>(ανοχή) |
|-------------|-----------------|-----------------|-----------------|-----------------------------------|-------------------------|
| Κίτρινο     | 4               | 4               | 4               | $10^4$                            | $\pm 0.02\%$            |
| Πράσινο     | 5               | 5               | 5               | $10^5$                            | $\pm 0.5\%$             |
| Μπλε        | 6               | 6               | 6               | $10^6$                            | $\pm 0.25\%$            |
| Μωβ         | 7               | 7               | 7               | $10^7$                            | $\pm 0.1\%$             |
| Γκρι        | 8               | 8               | 8               | $10^8$                            | $\pm 0.01\%$            |
| Λευκό       | 9               | 9               | 9               | $10^9$                            |                         |

Σύμφωνα με το πρότυπο DIN EN 60062:2017

Πορτοκαλί — λευκό — μαύρο — καφέ — καφέ: αντίσταση 3,9 kΩ με ανοχή 1%,

Κόκκινο — κόκκινο — μαύρο — καφέ — καφέ: αντίσταση 2,2 kΩ με ανοχή 1%.



### 3

## Ενσυρμάτωση



*FPP-5000 Power supply, σελίδα 20*

*DIBT, σελίδα 22*

*Λειτουργικά δομοστοιχεία, σελίδα 49*

*BCM-0000-B, σελίδα 50*

*CZM 0004 A, σελίδα 52*

*ENO 0000 A/B, σελίδα 56*

*LSN 0300 A, σελίδα 63*

*NZM 0002 A, σελίδα 98*

*RMH 0002 A, σελίδα 114*

*IOS 0020 A, σελίδα 117*

*FPE-5000-UGM, σελίδα 132*

*Δομοστοιχεία διασύνδεσης, σελίδα 137*

*FLM-420/4-CON-D/S, σελίδα 138*

*FLM-420-NAC-D/S, σελίδα 163*

*FLM-420-RLE-S, σελίδα 176*

*FLM-420-RLV1-E, σελίδα 177*

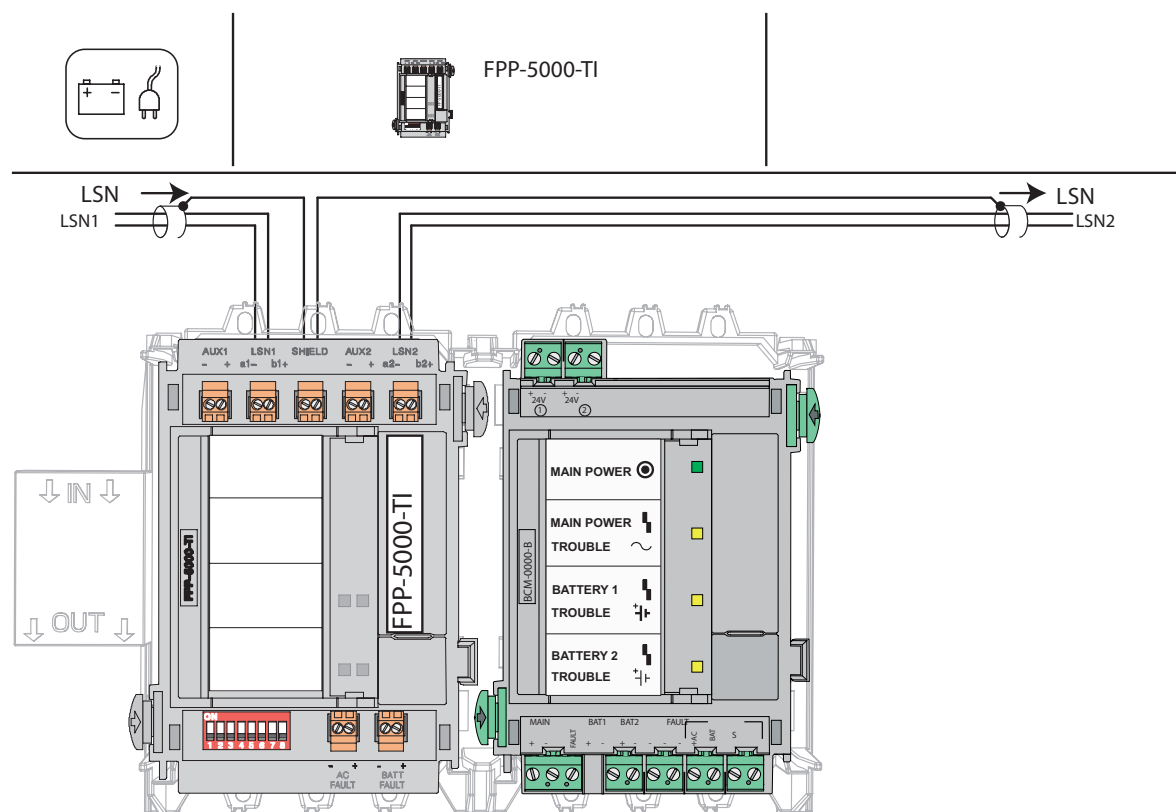
*FLM-420-RLV8-S, σελίδα 178*

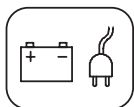
*EOL, σελίδα 181*

*LSN 0300 A, σελίδα 182*

*FLM-420/4-CON-S/D, σελίδα 224*

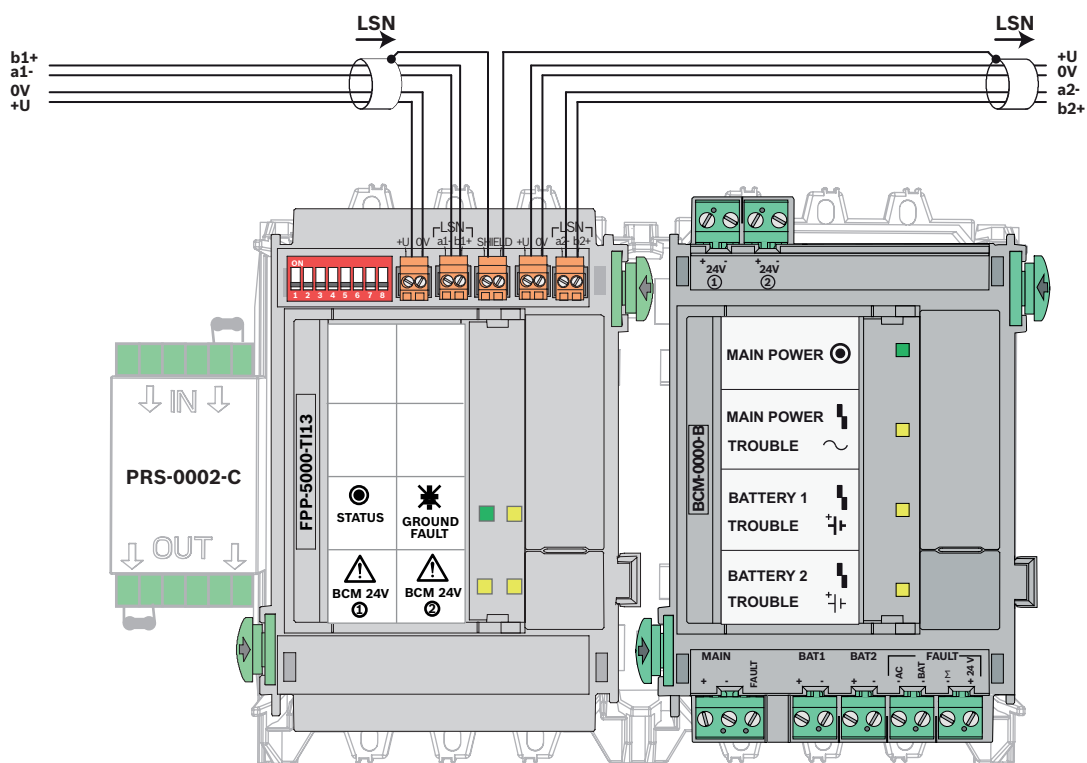
### 3.1 FPP-5000 Power supply





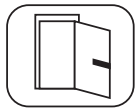
FPP-5000-TI13

ELS VdS 2489



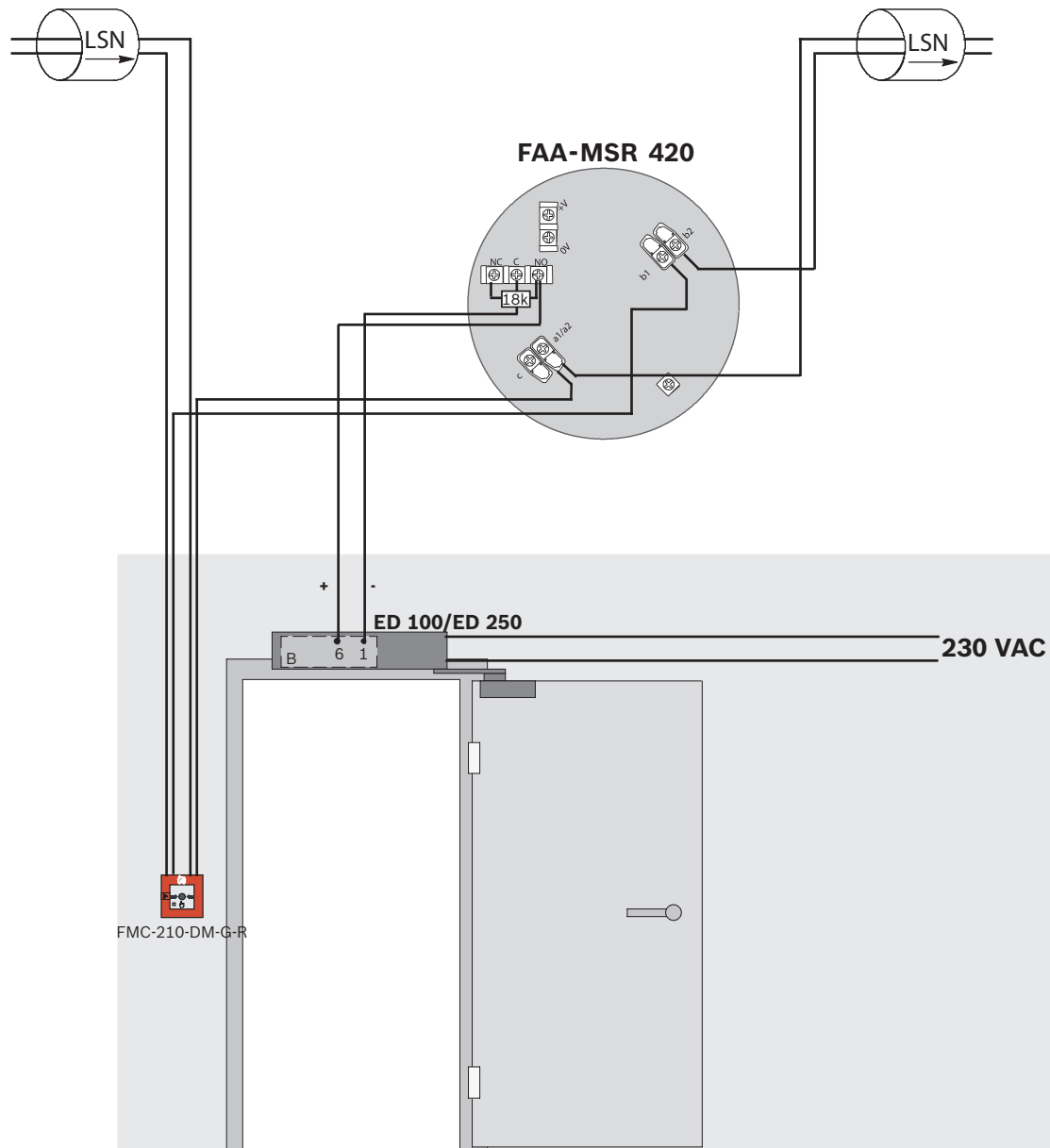
## 3.2

## DIBT



ED 100  
ED 250  
(+Upgrade Card B)

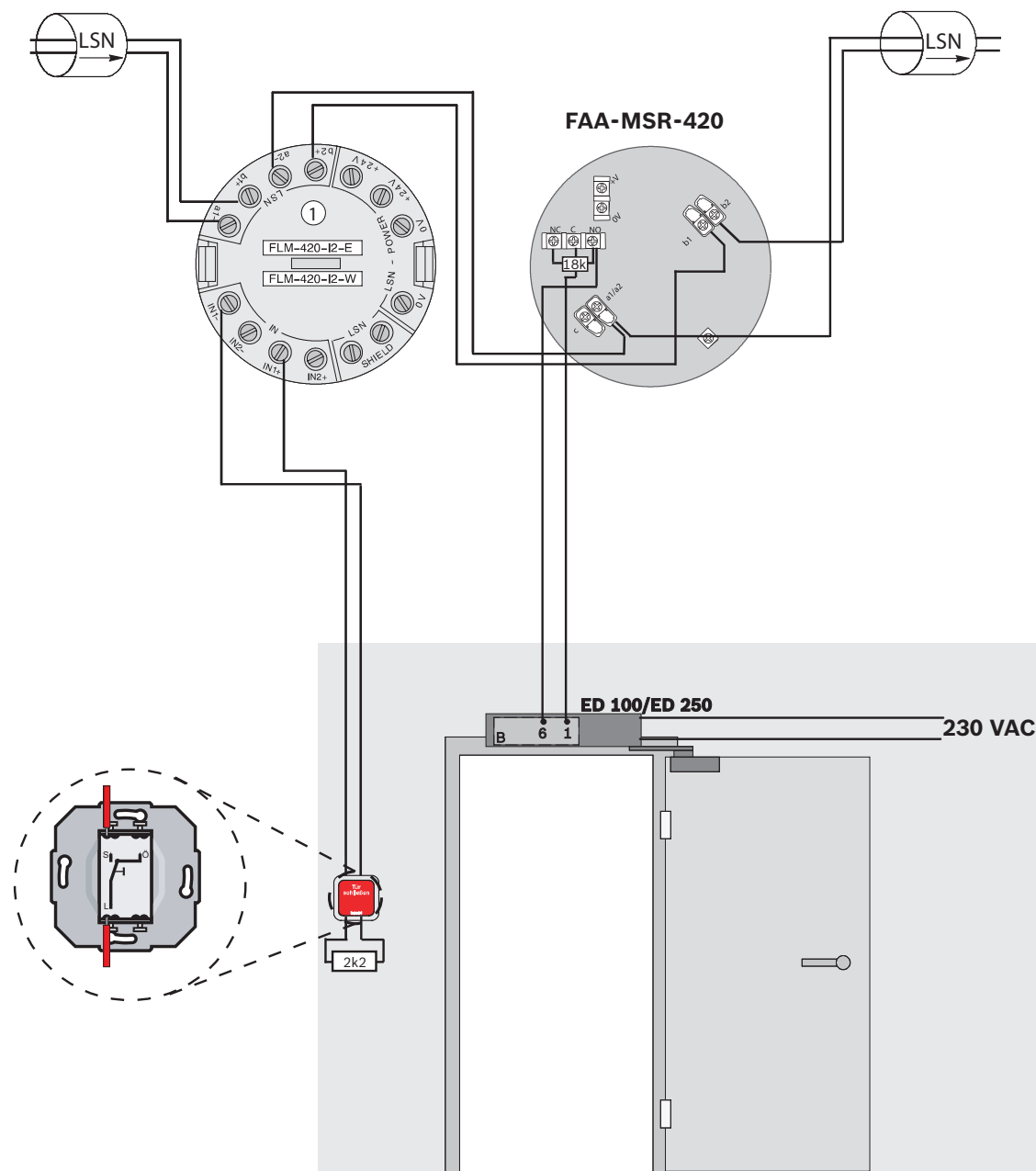
DIBT

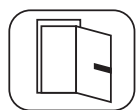
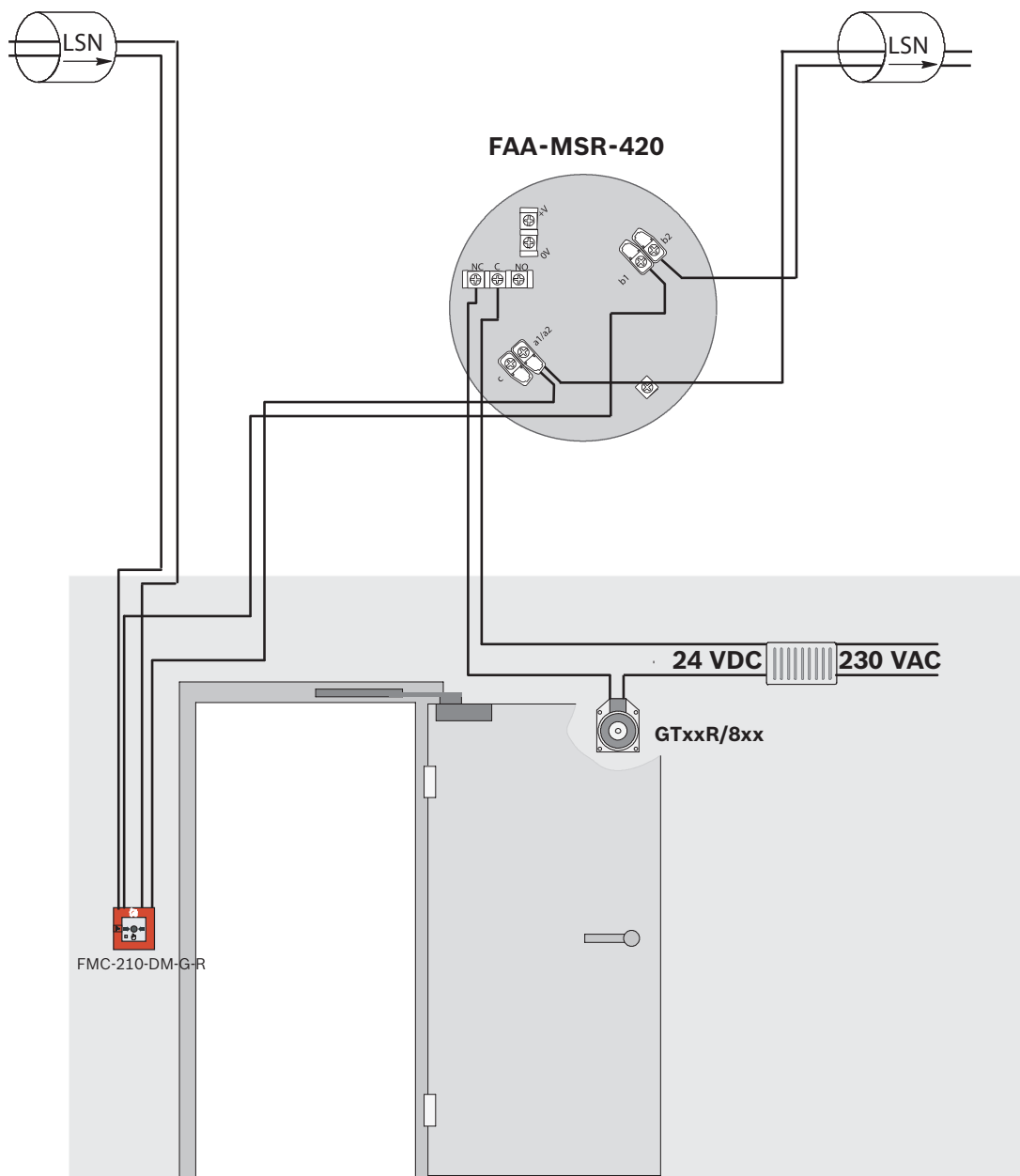




**ED 100  
ED 250  
(+Upgrade Card B)**

**DIBT**



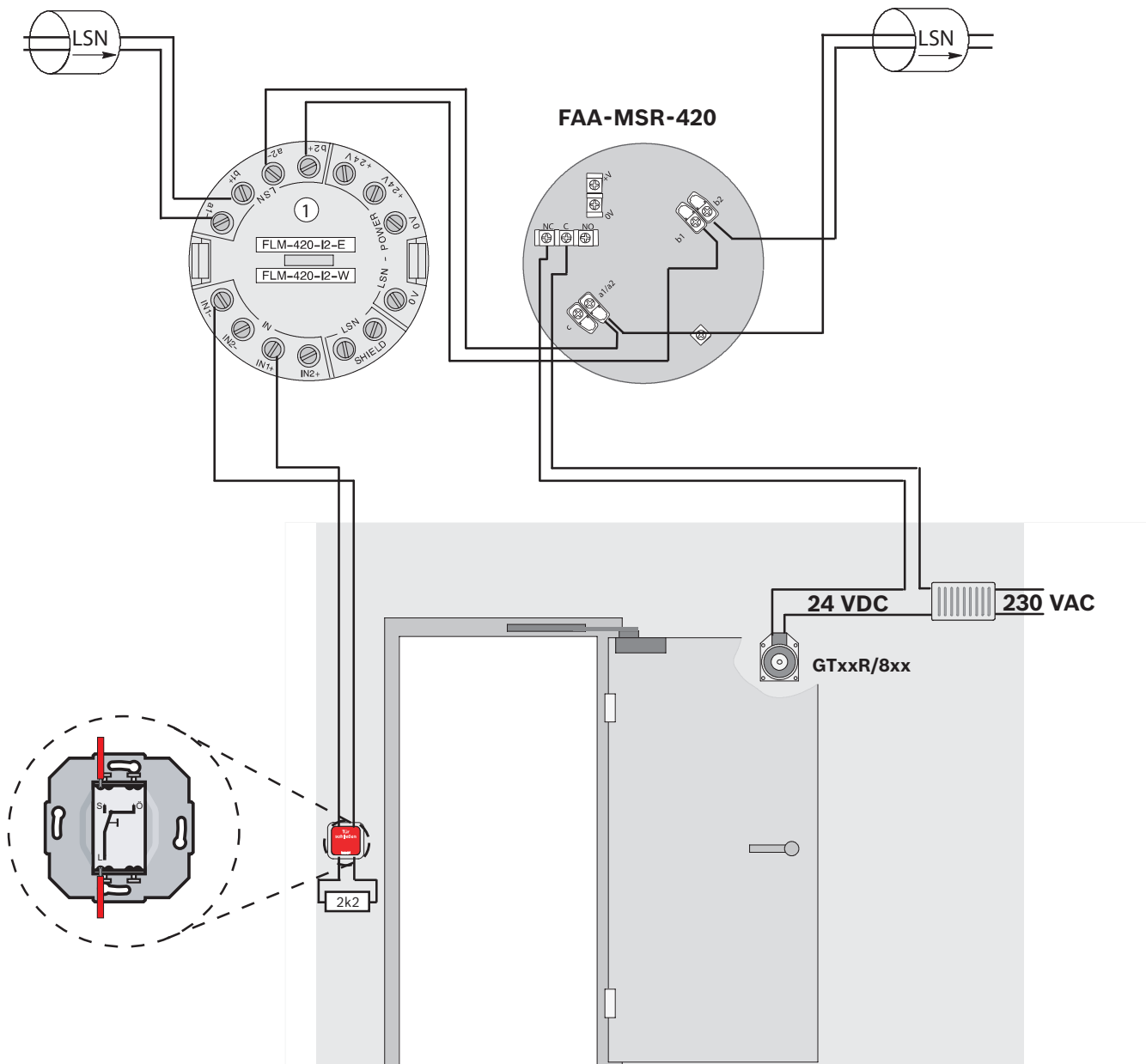
**DIBT**



GT xx R

8 xx

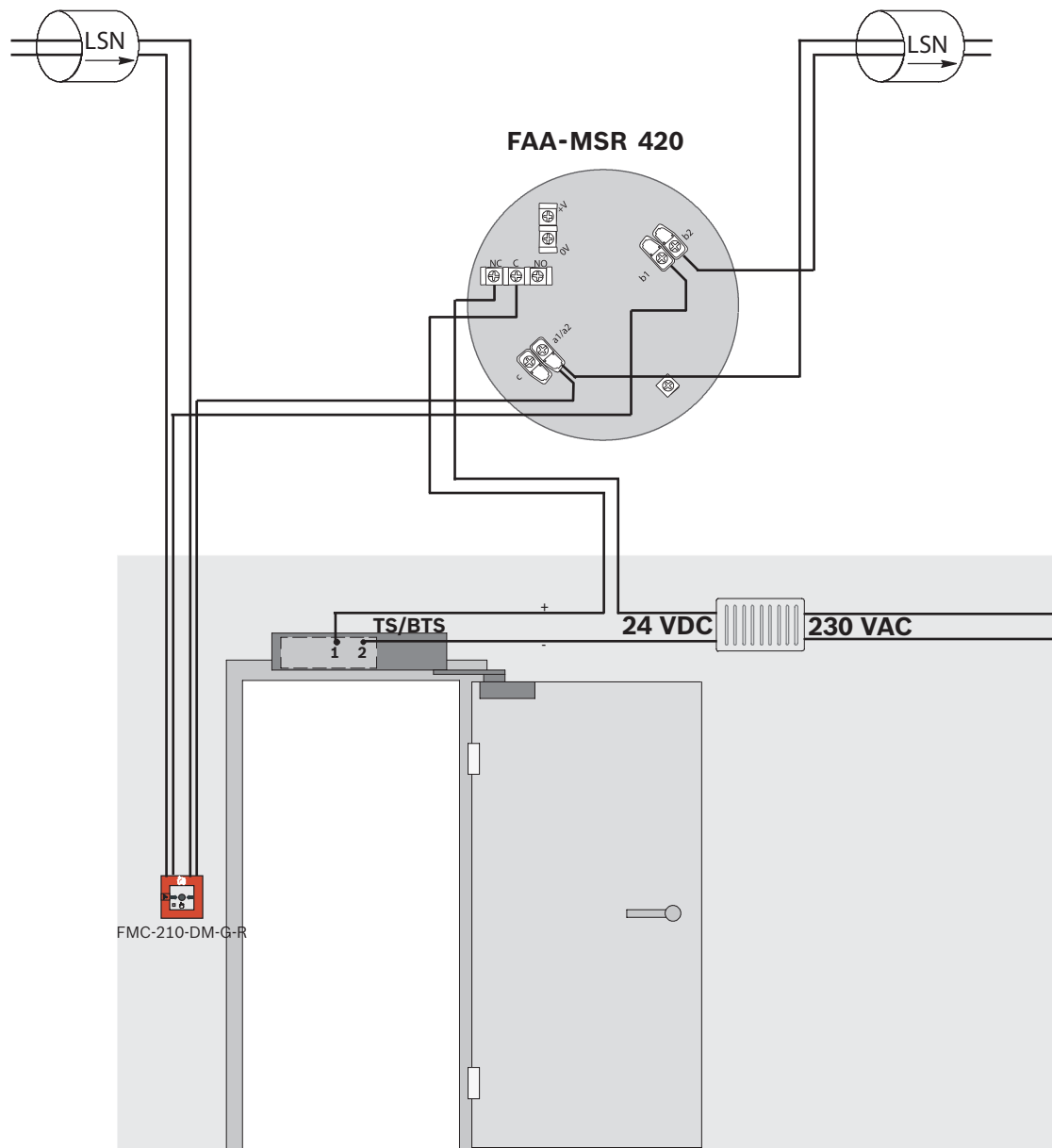
DIBT





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

**DIBT**



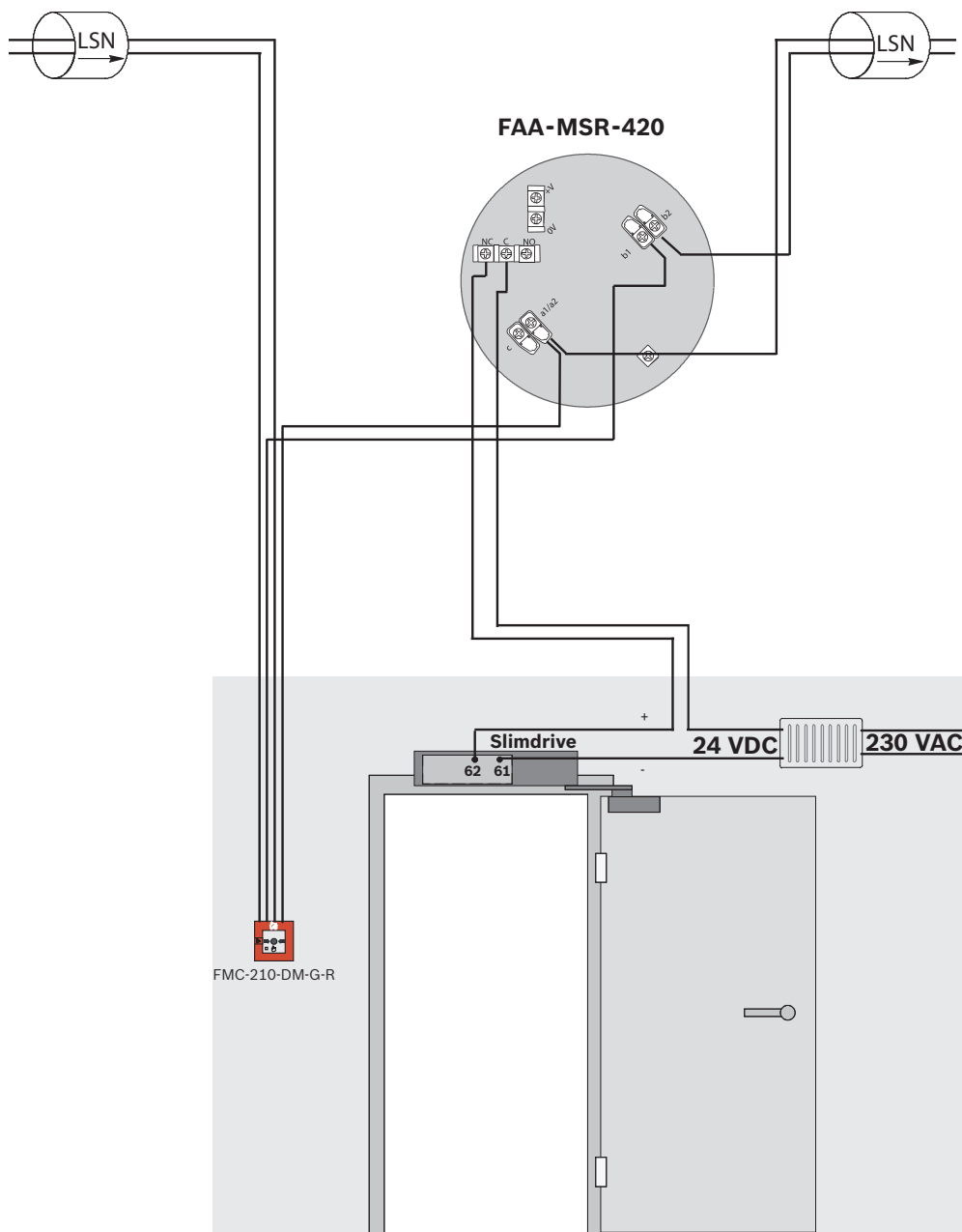






Slimdrive EMD-F/EMD F-IS

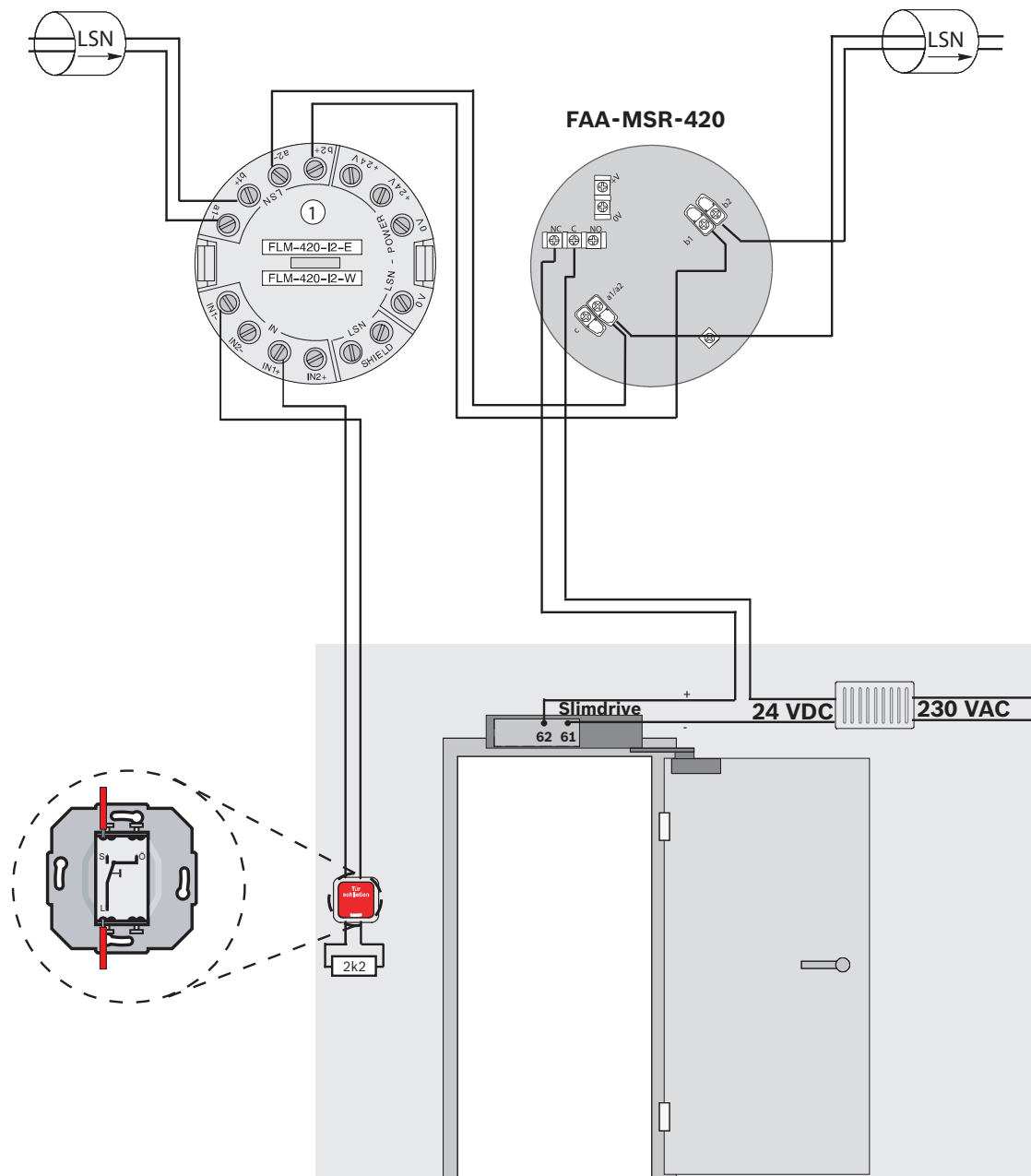
DIBT





Slimdrive EMD-F/EMD F-IS

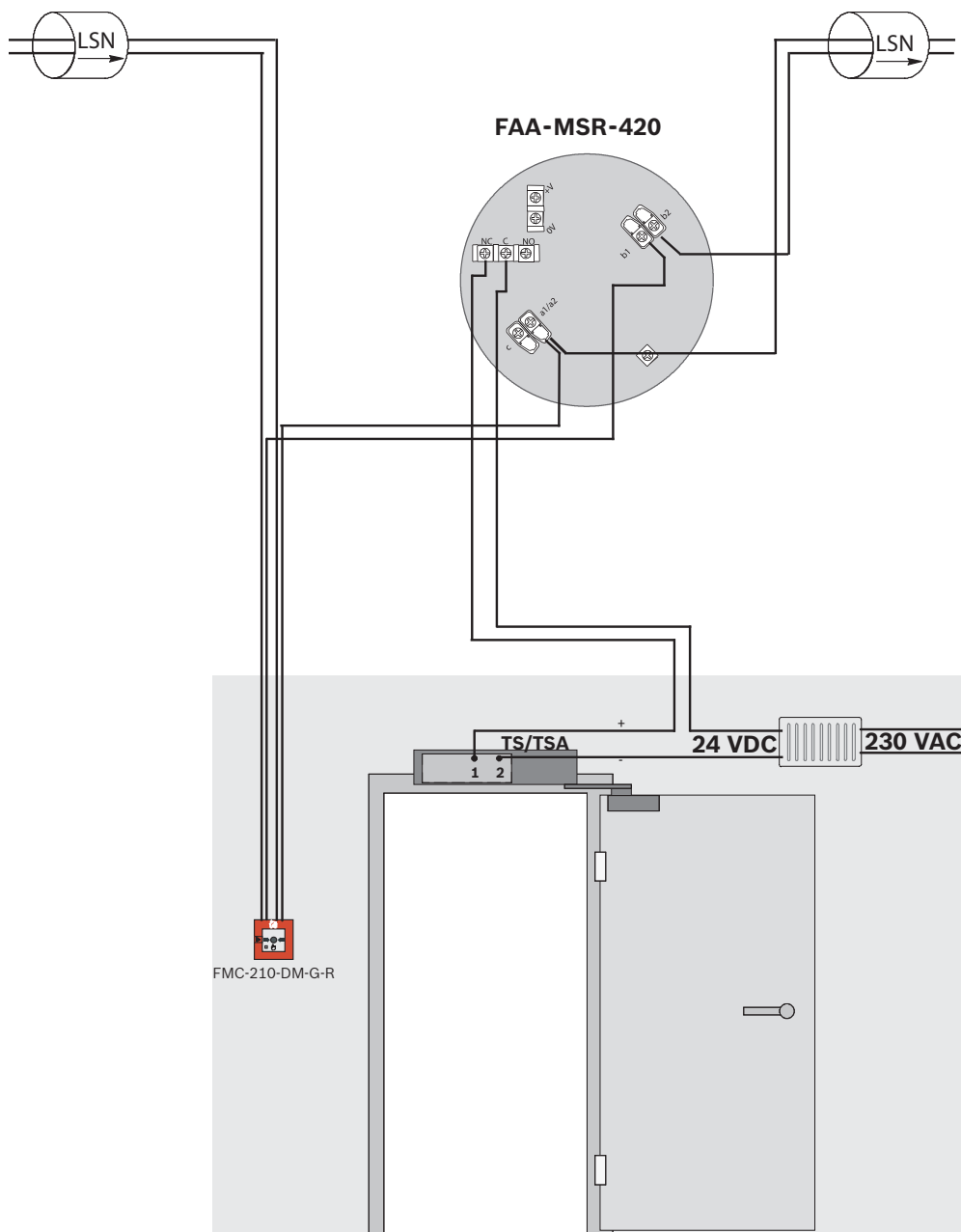
DIBT





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

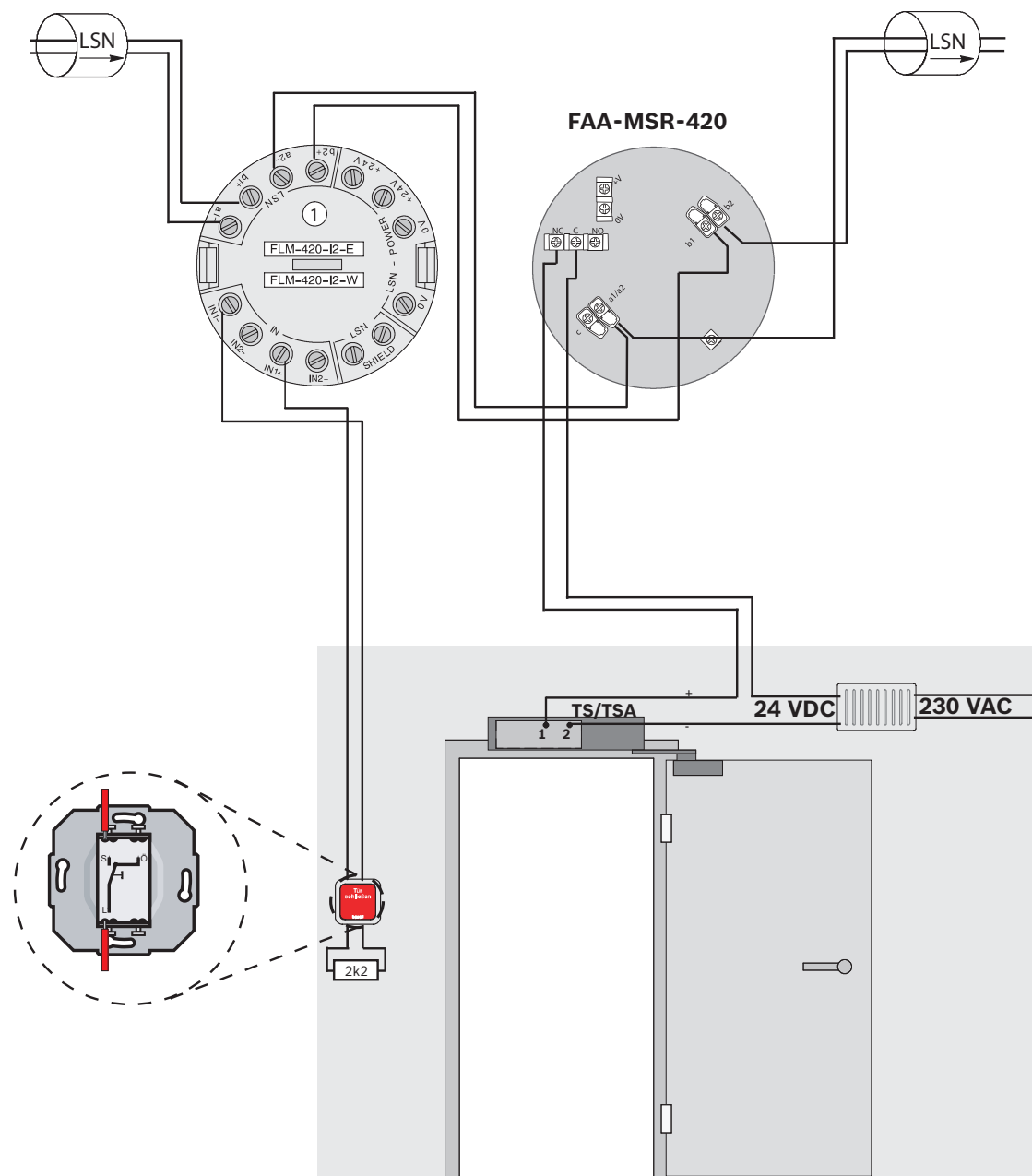
DIBT





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

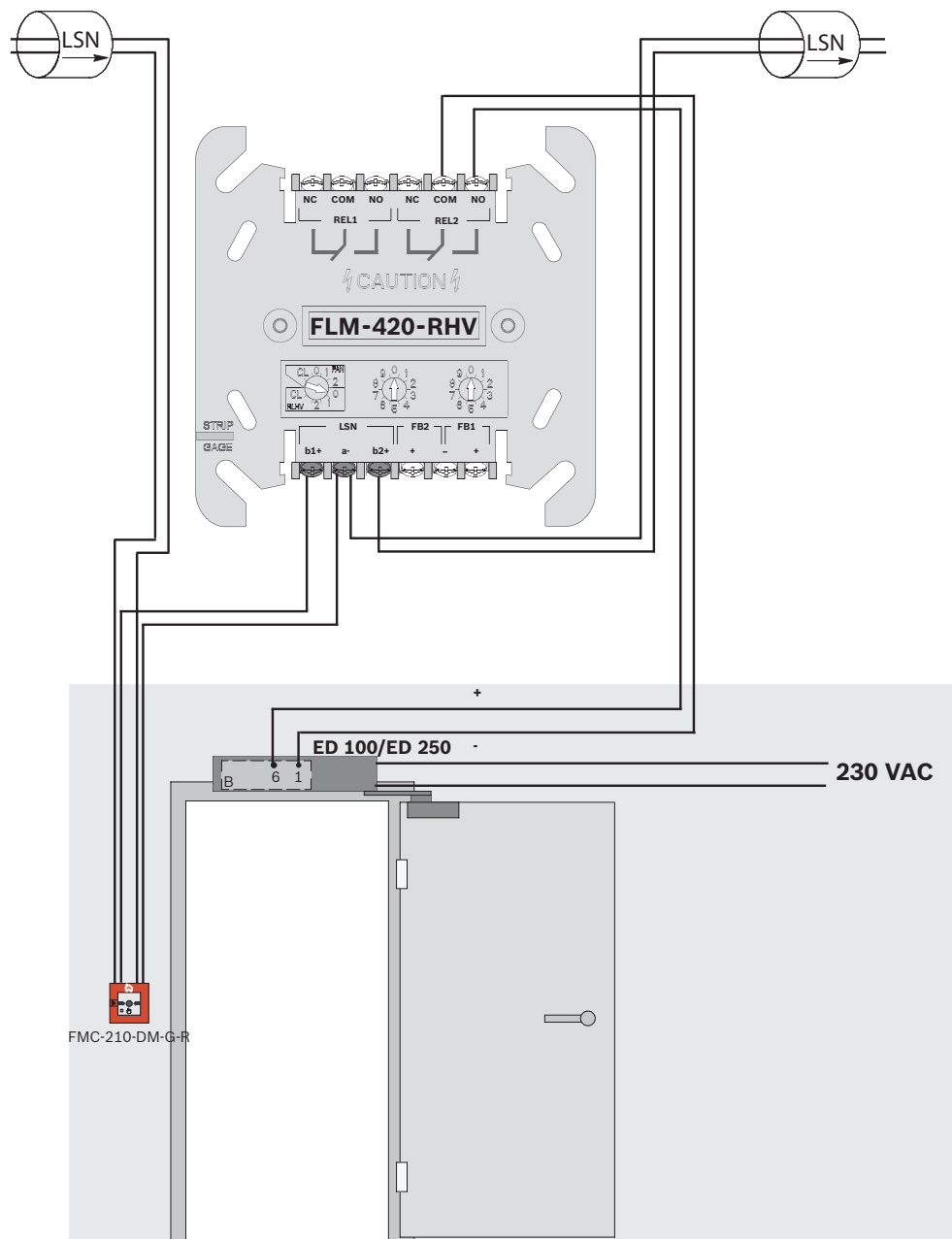
**DIBT**





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

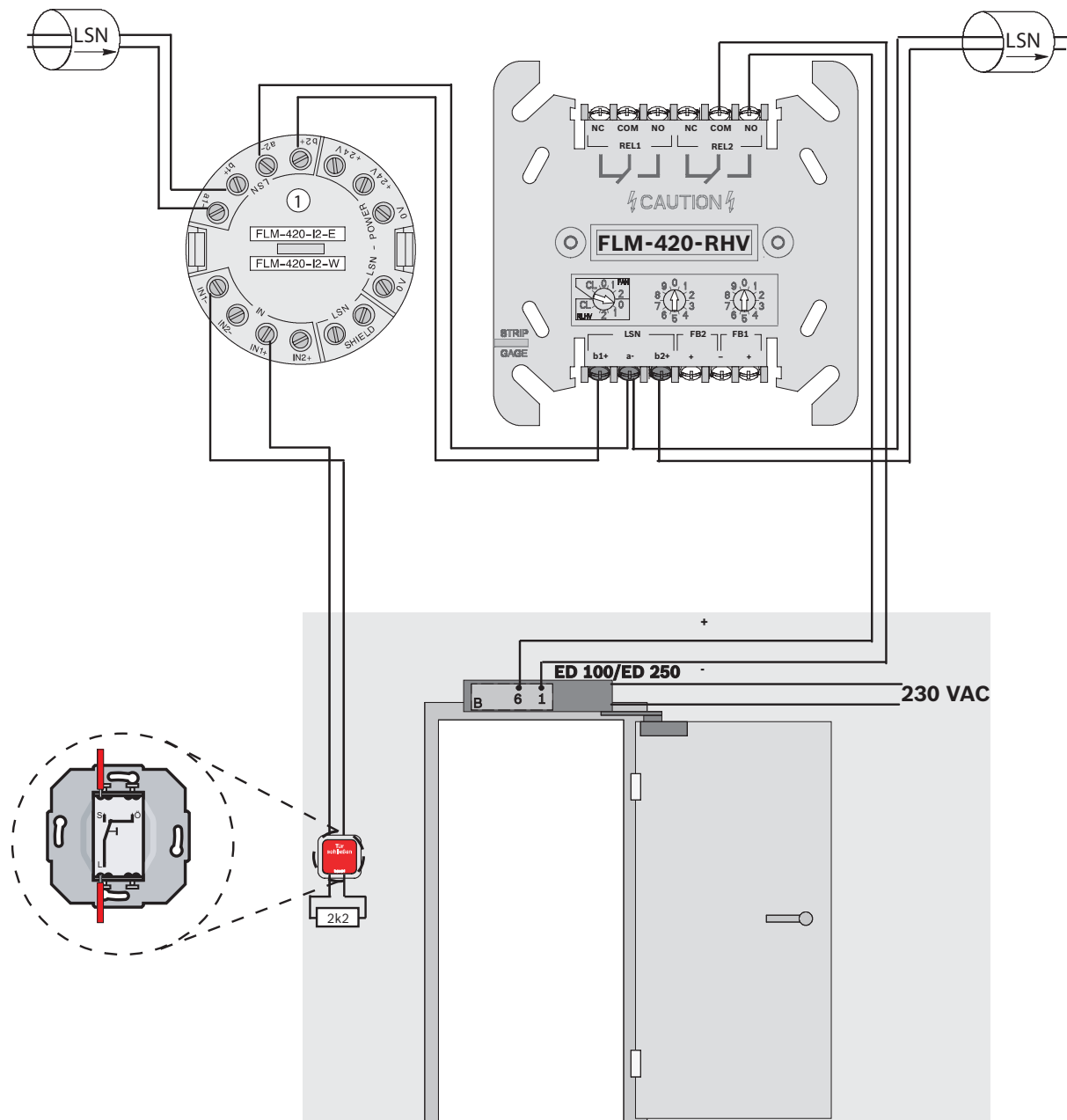
**DIBT**





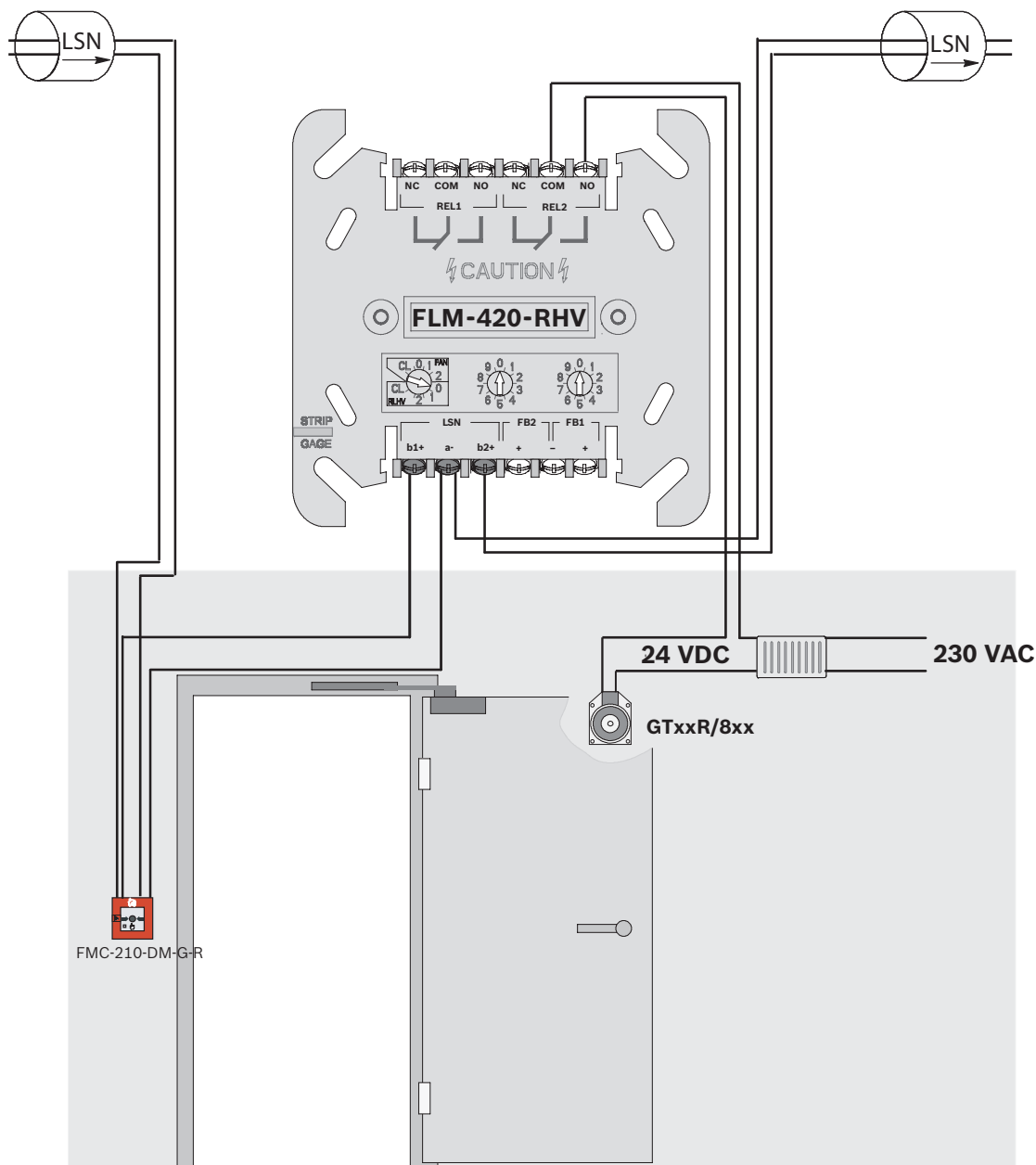
**ED 100  
ED 250  
(+Upgrade Card B)**

**DIBT**





DIBT



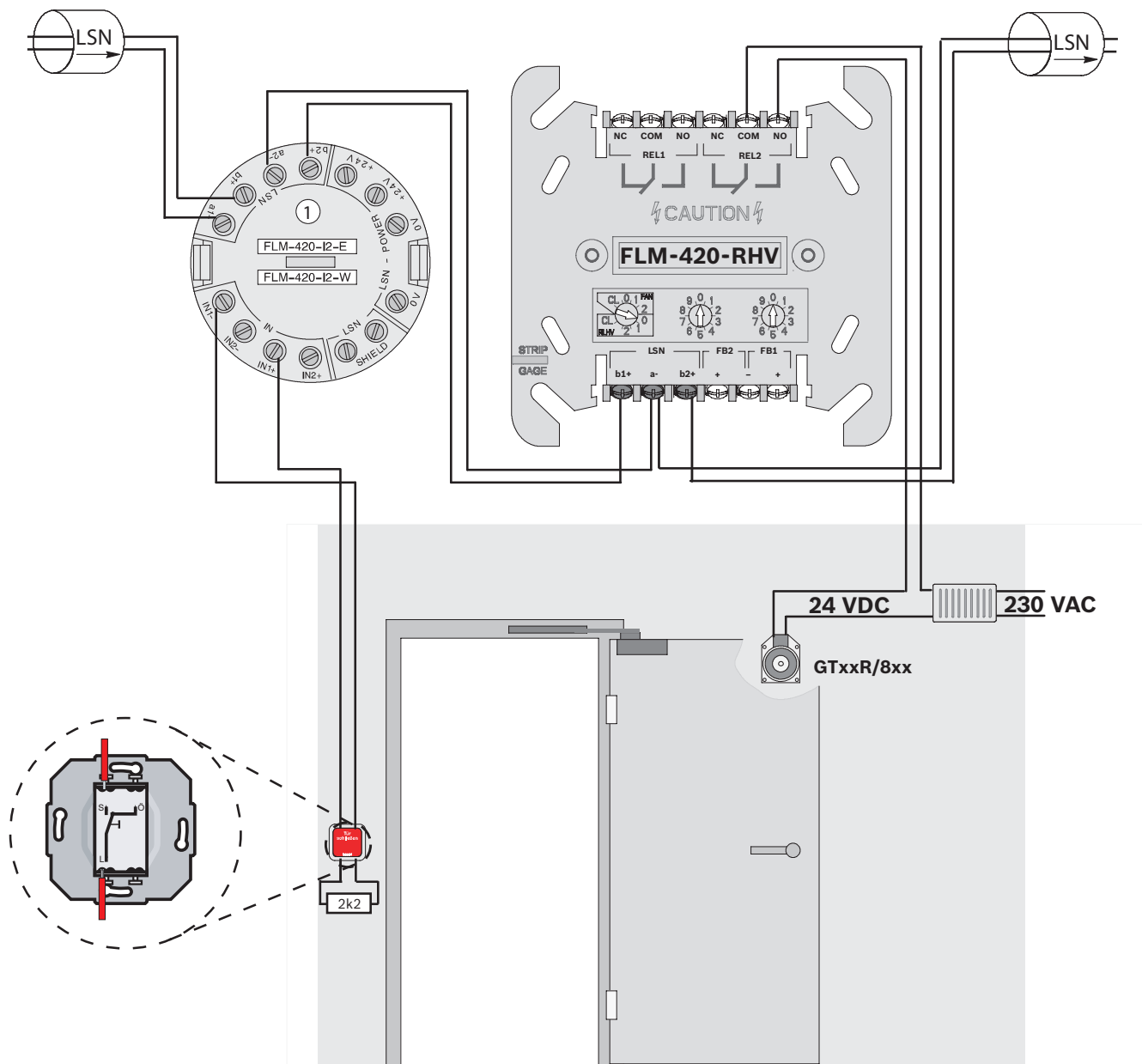




GT xx R

**8 xx**

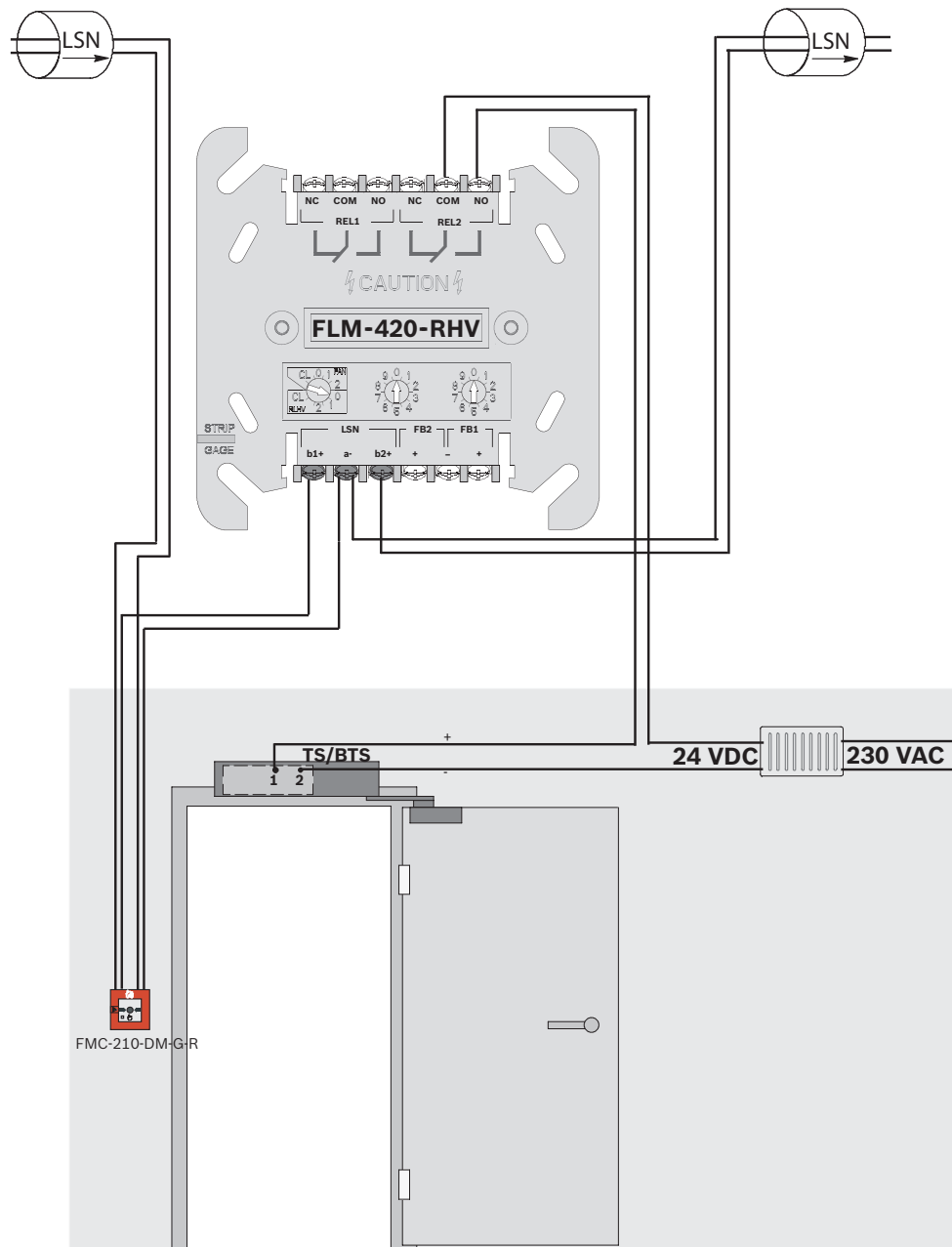
**DIBT**





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

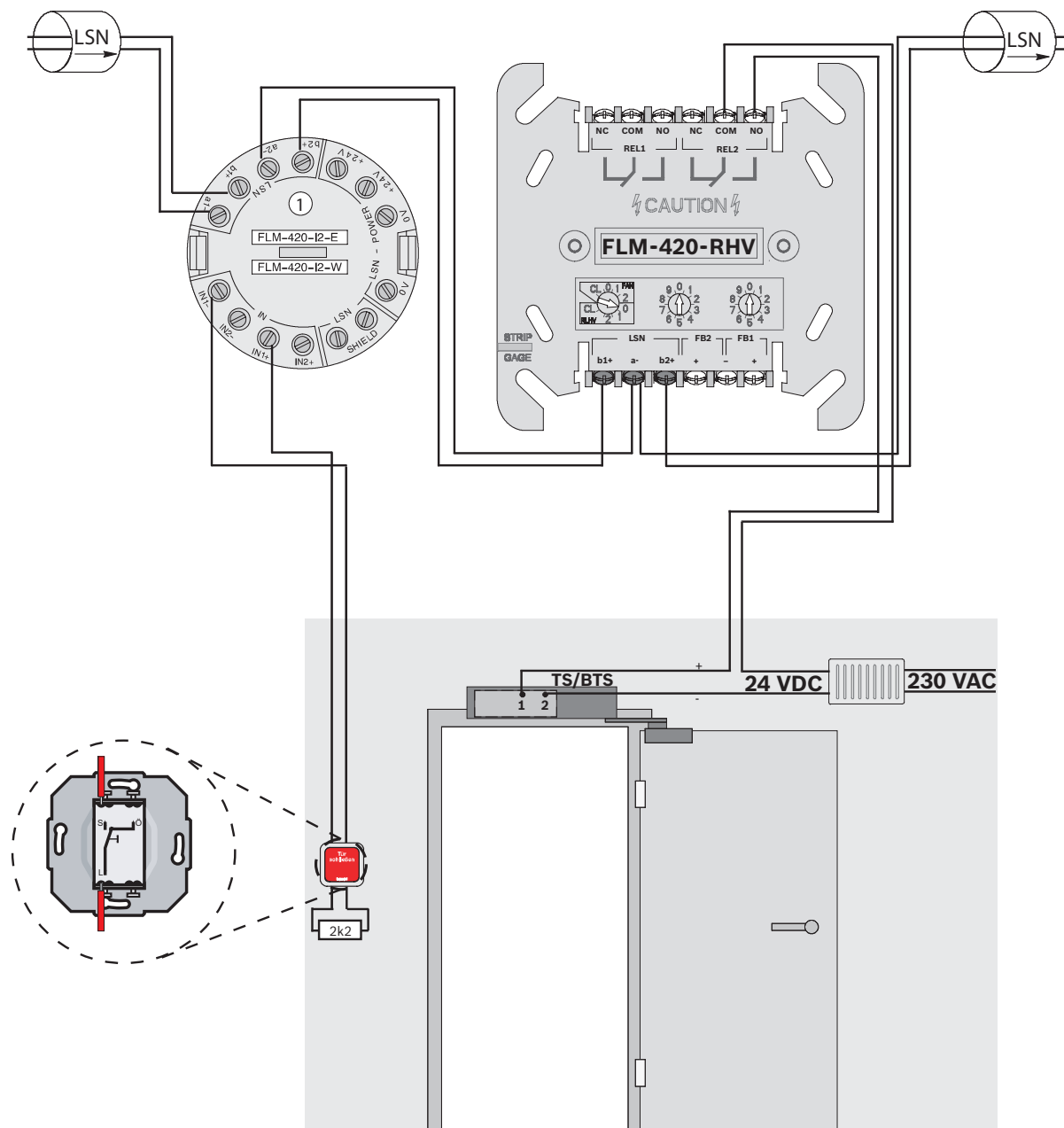
DIBT





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

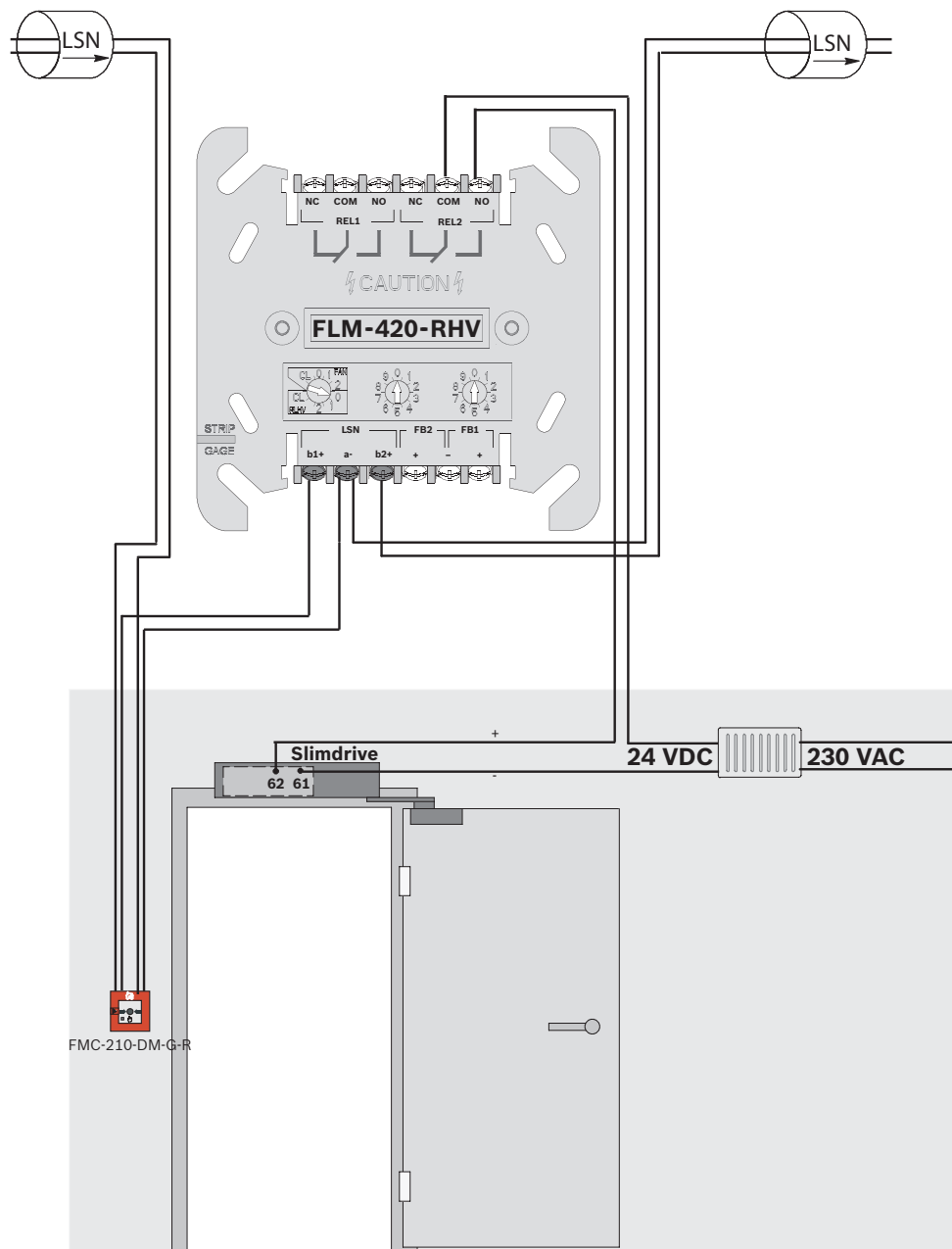
DIBT





Slimdrive EMD-F/EMD F-IS

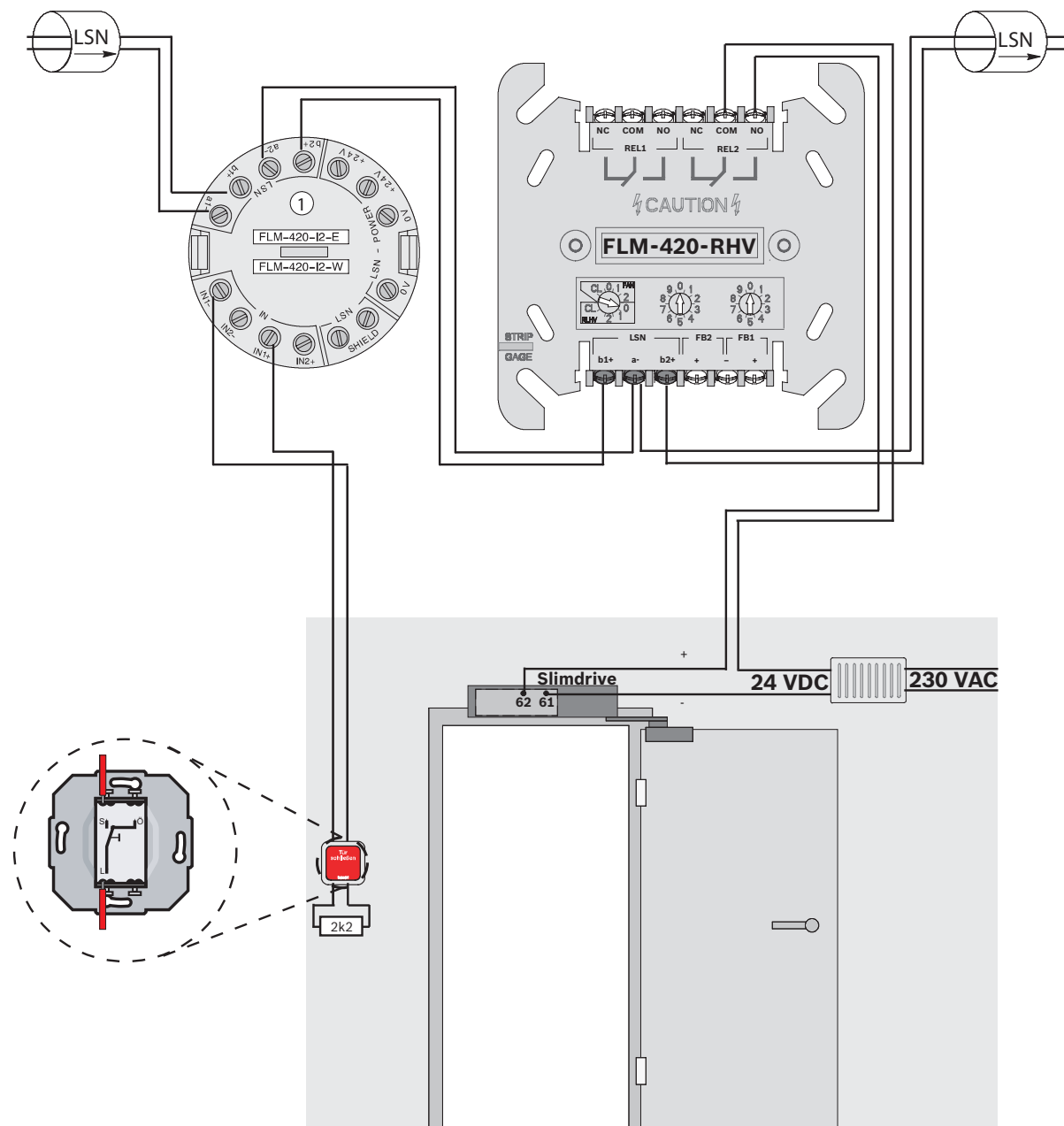
DIBT





Slimdrive EMD-F/EMD F-IS

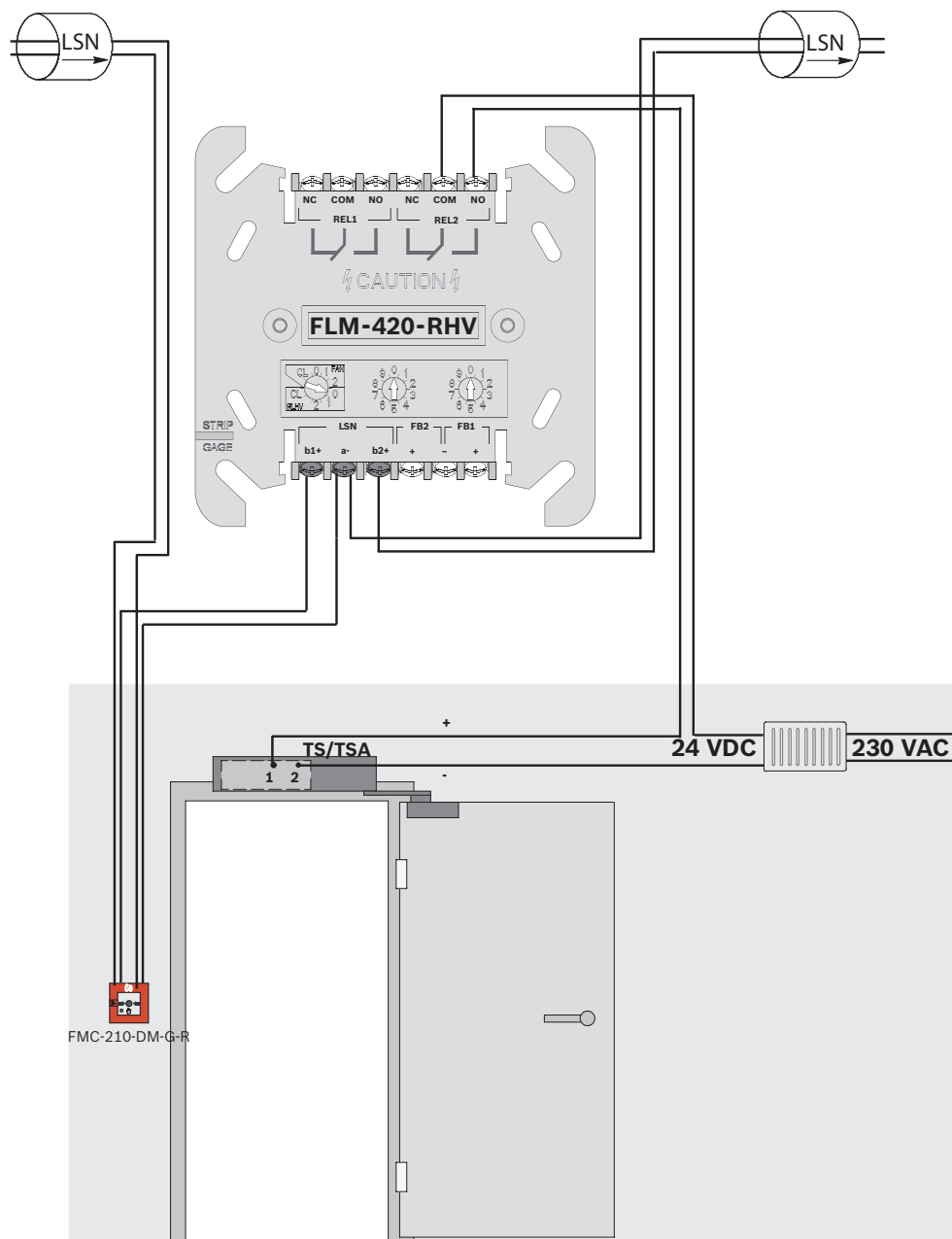
DIBT





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

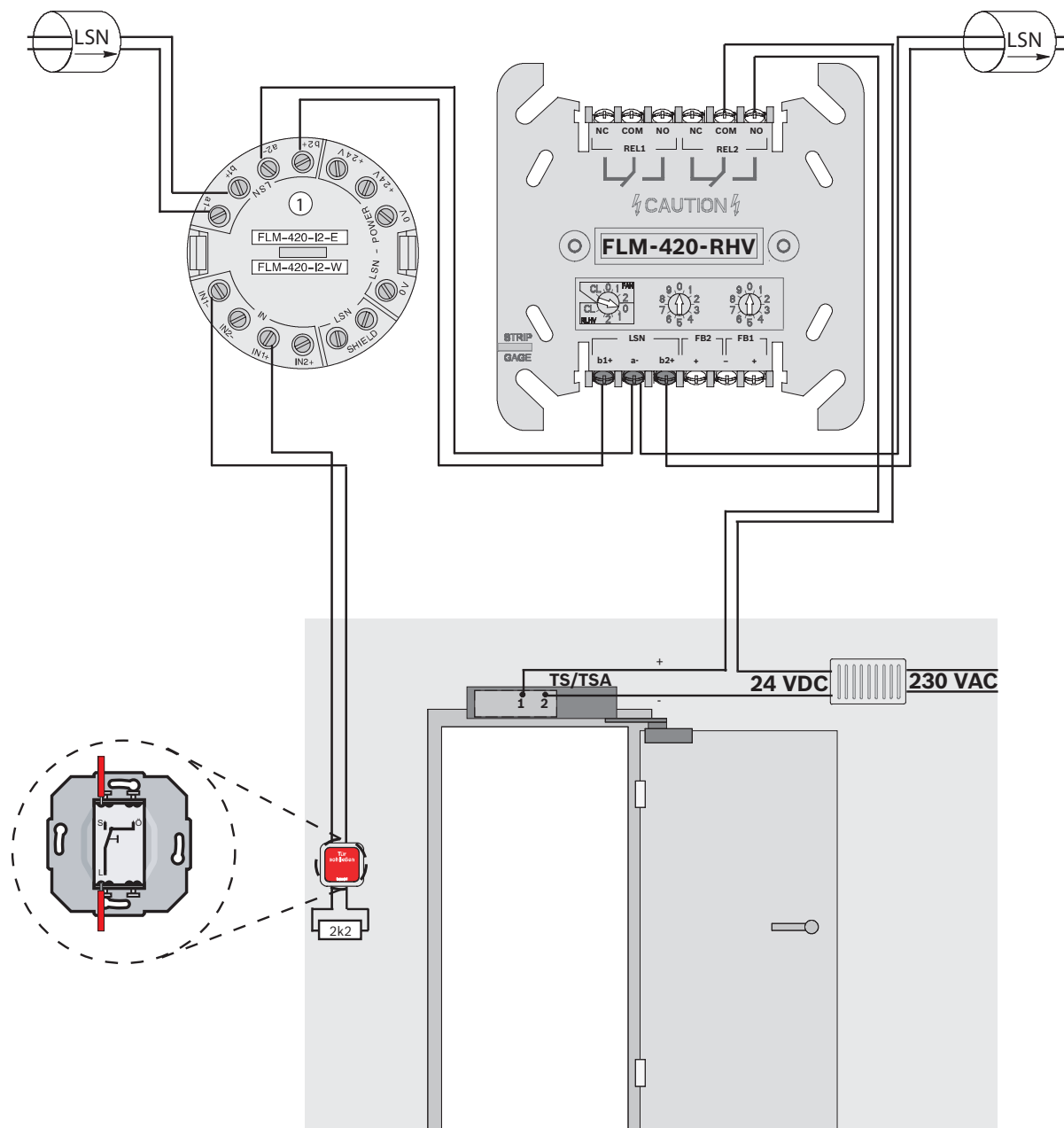
**DIBT**

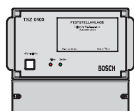




TS 4000 E/E-IS/EFS  
TS 5000 E/E-IS/E-ISM  
TS 550 E  
TSA 160 NT F/F-IS/F-IS/TS

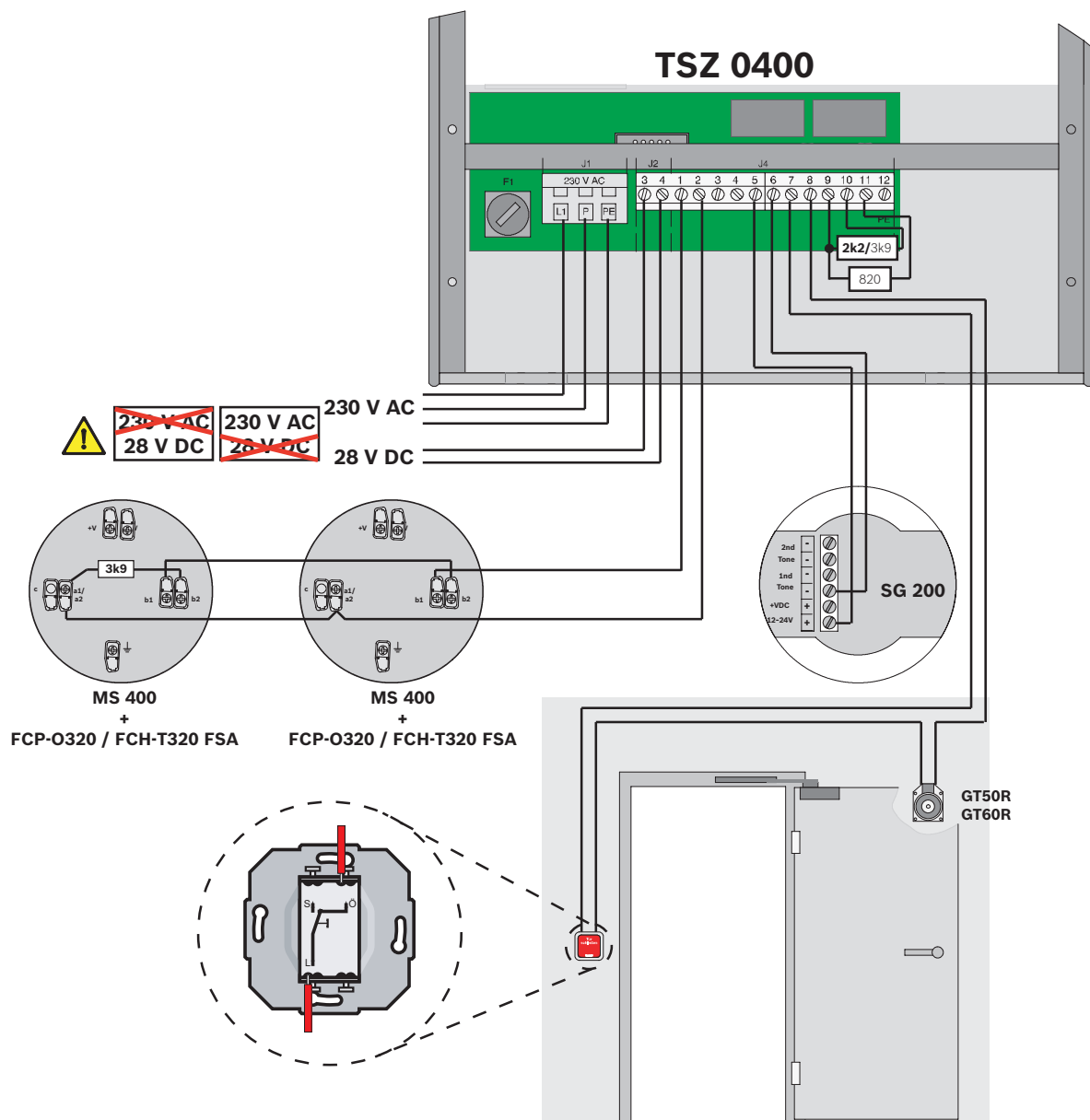
DIBT



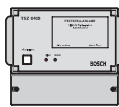


TSZ 0400

DIBT

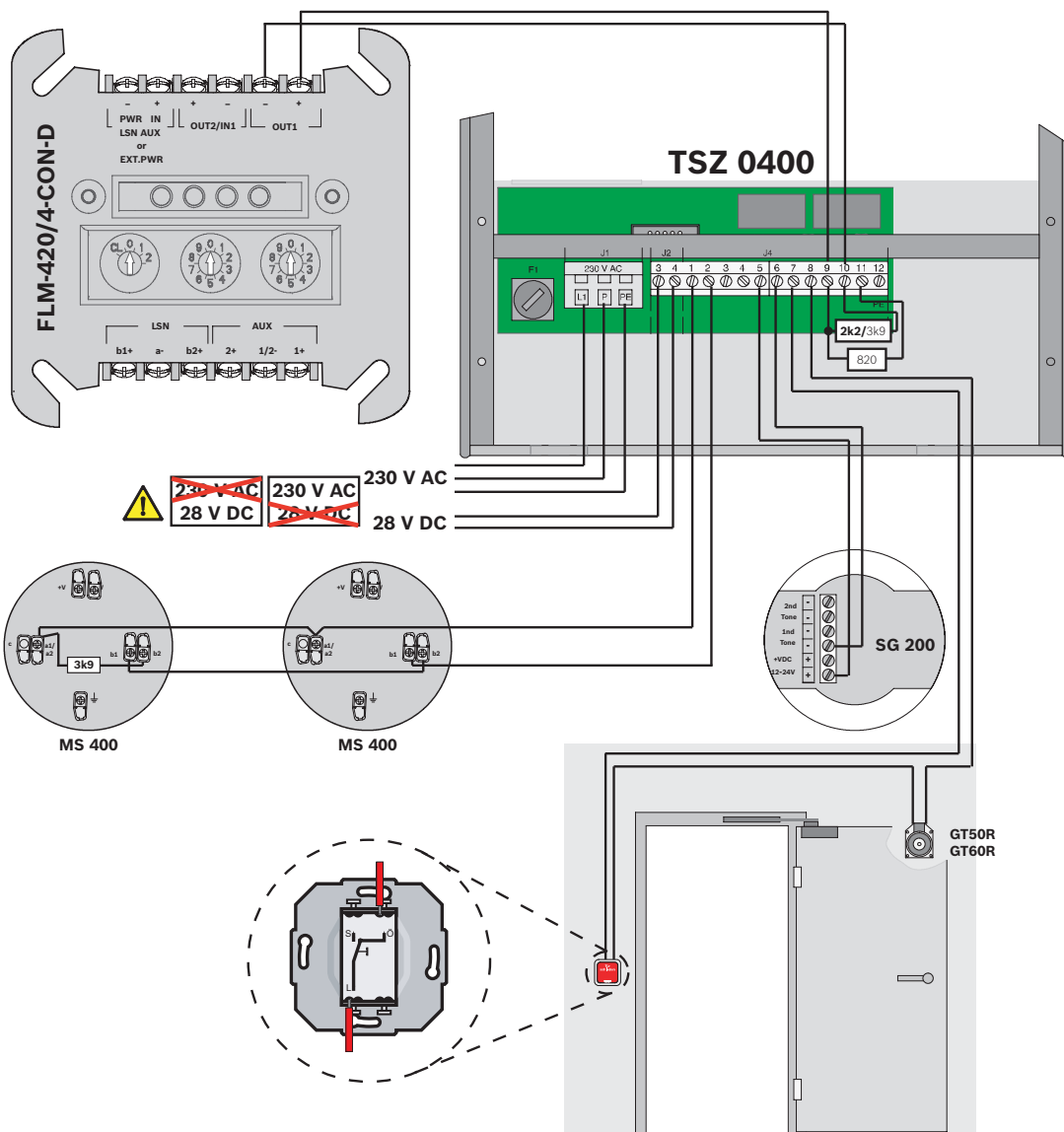




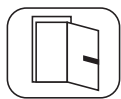


TSZ 0400

DIBT

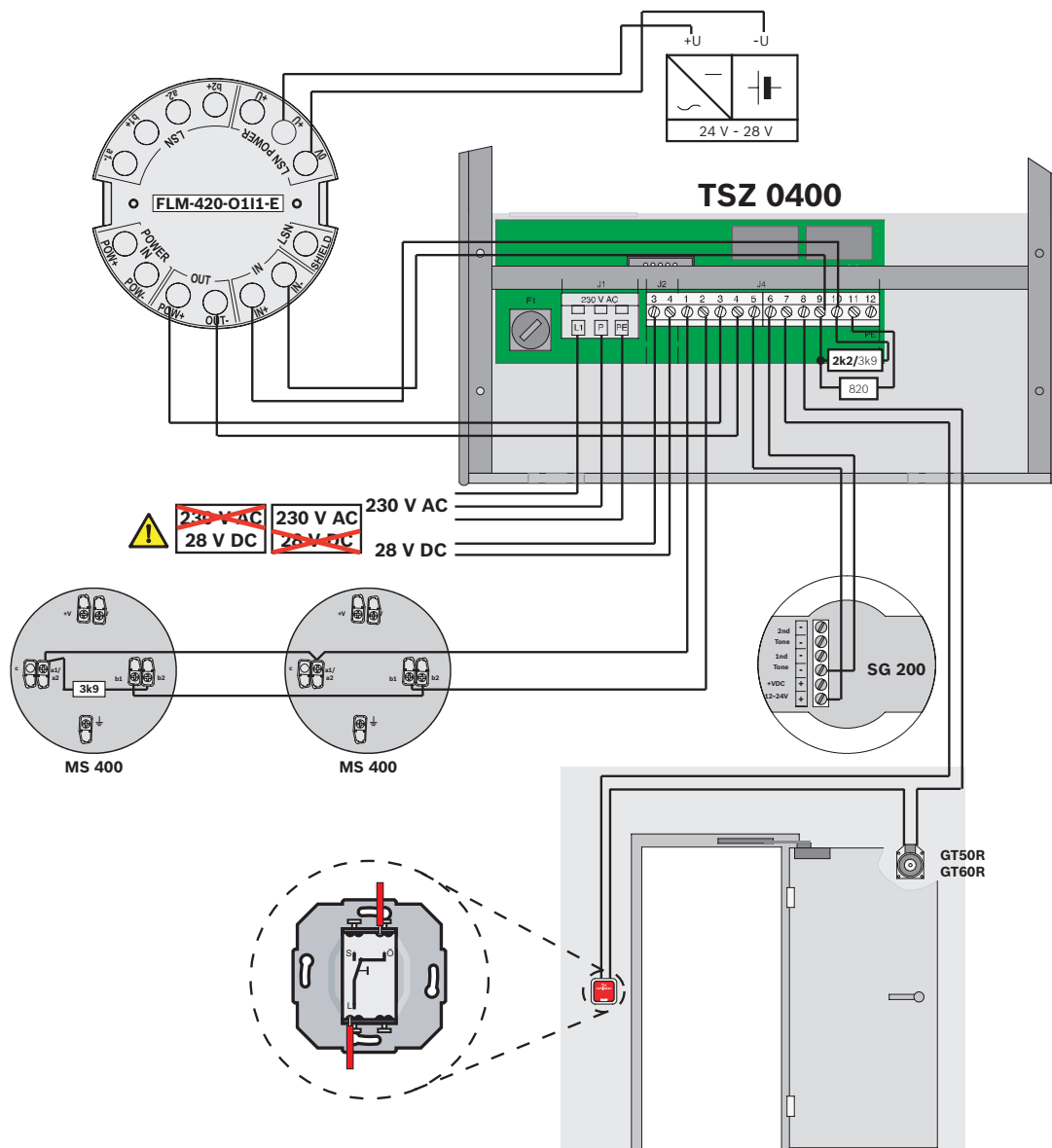


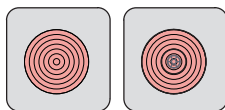




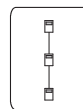
TSZ 0400

DIBT

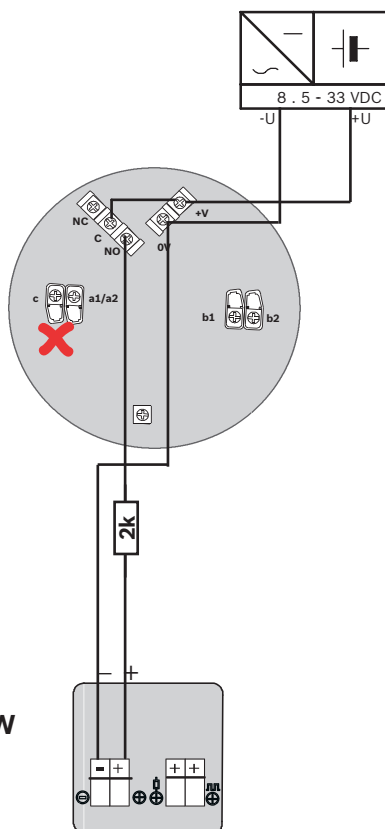


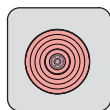


**FAA-420-RI-ROW**  
**FAA-420-RI-DIN**

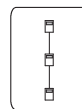


**FAA-MSR-420**

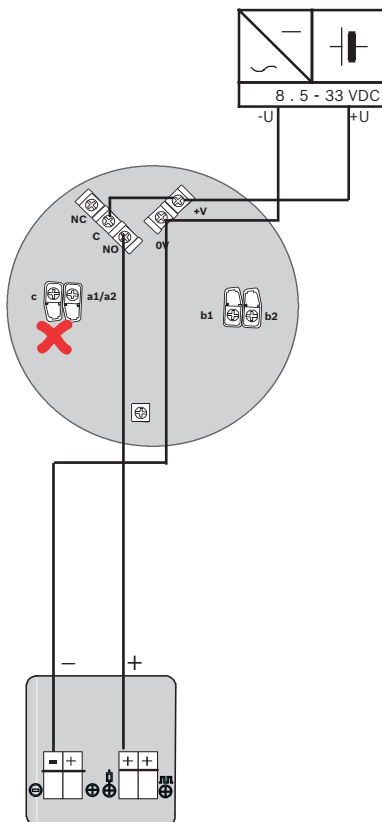




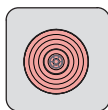
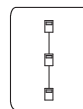
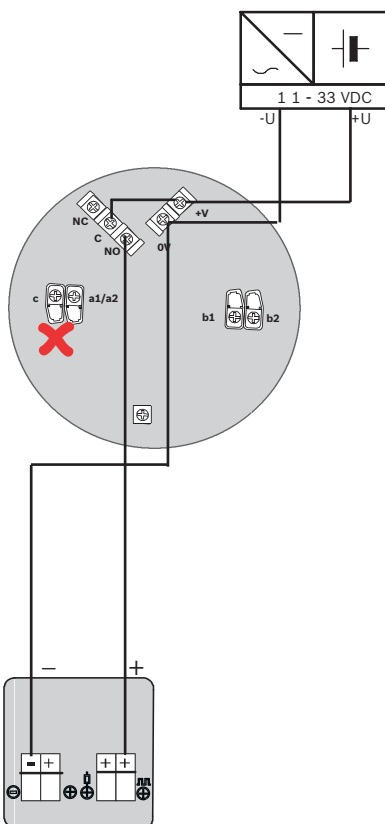
**FAA-420-RI-DIN**



**FAA-MSR-420**



**FAA-420-RI-DIN**


**FAA-420-RI-DIN**

**FAA-MSR-420**

**FAA-420-RI-DIN**

### 3.3

## Λειτουργικά δομοστοιχεία



*BCM-0000-B, σελίδα 50*

*CZM 0004 A, σελίδα 52*

*ENO 0000 A/B, σελίδα 56*

*LSN 0300 A, σελίδα 63*

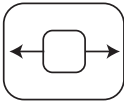
*NZM 0002 A, σελίδα 98*

*RMH 0002 A, σελίδα 114*

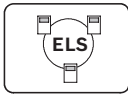
*IOS 0020 A, σελίδα 117*

*FPE-5000-UGM, σελίδα 132*

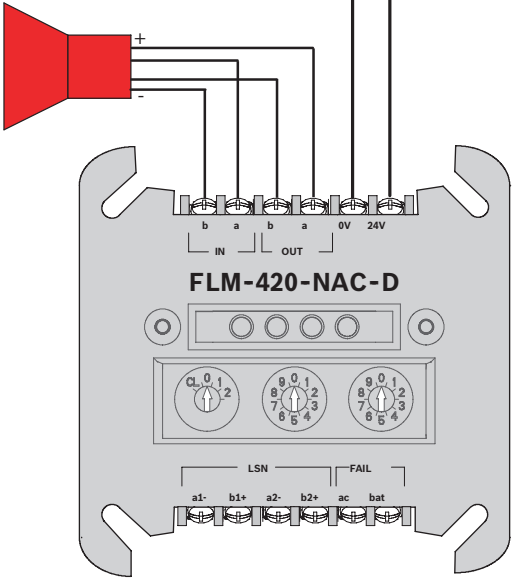
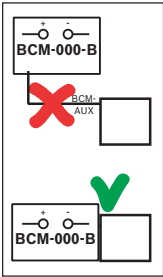
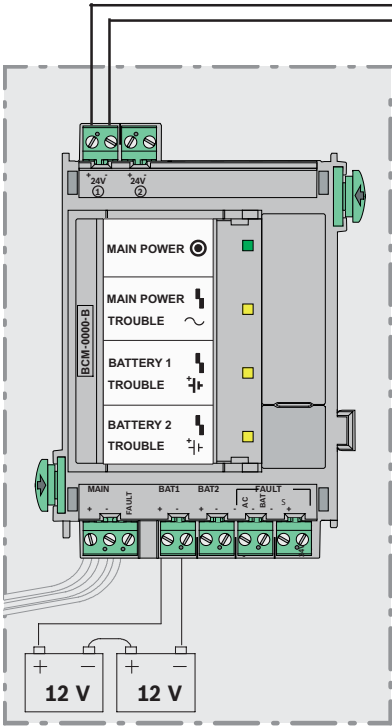
3.3.1 BCM-000-B



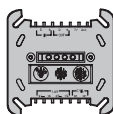
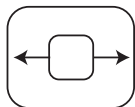
FLM-420-NAC-D



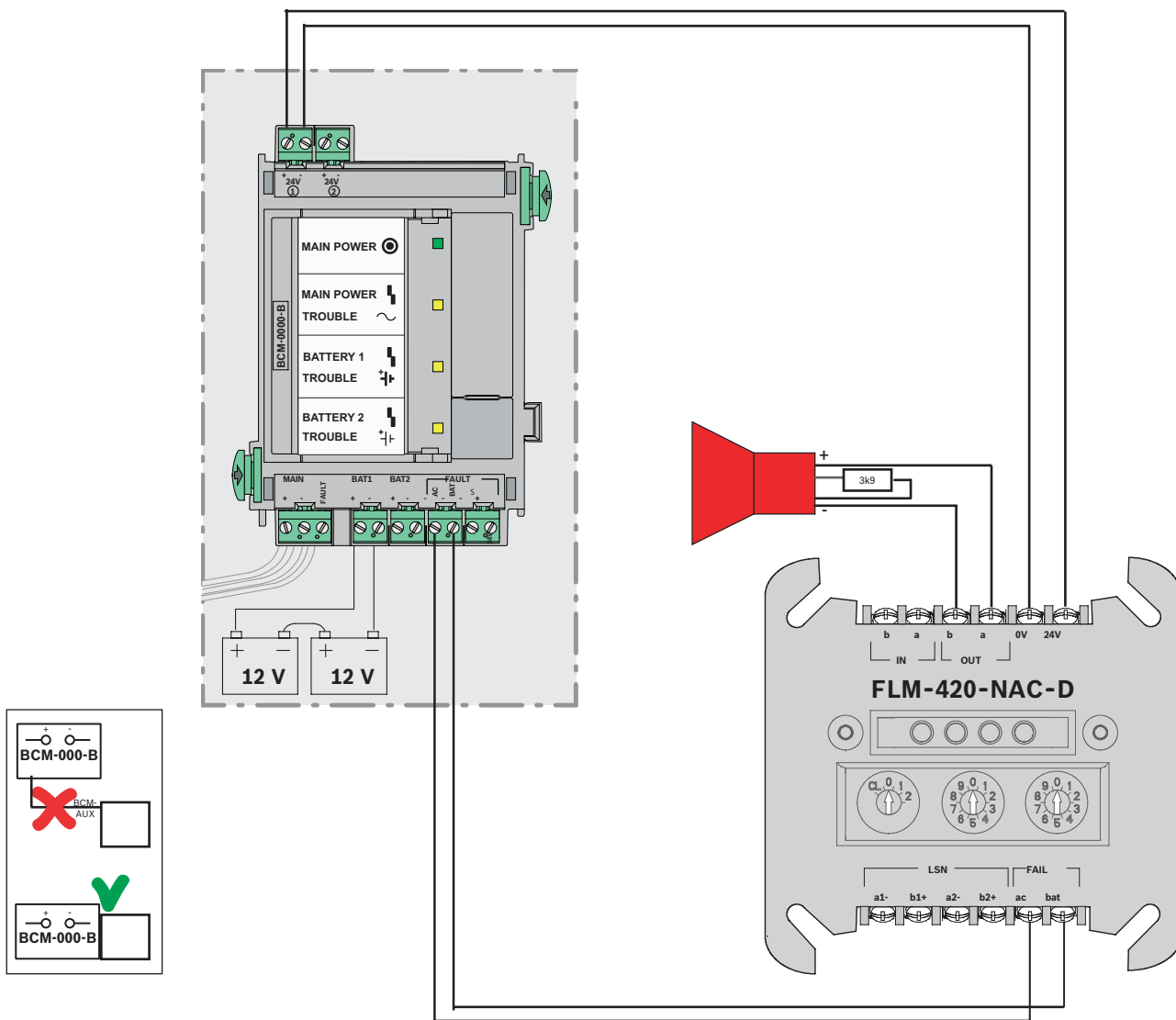
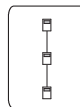
VdS 2489







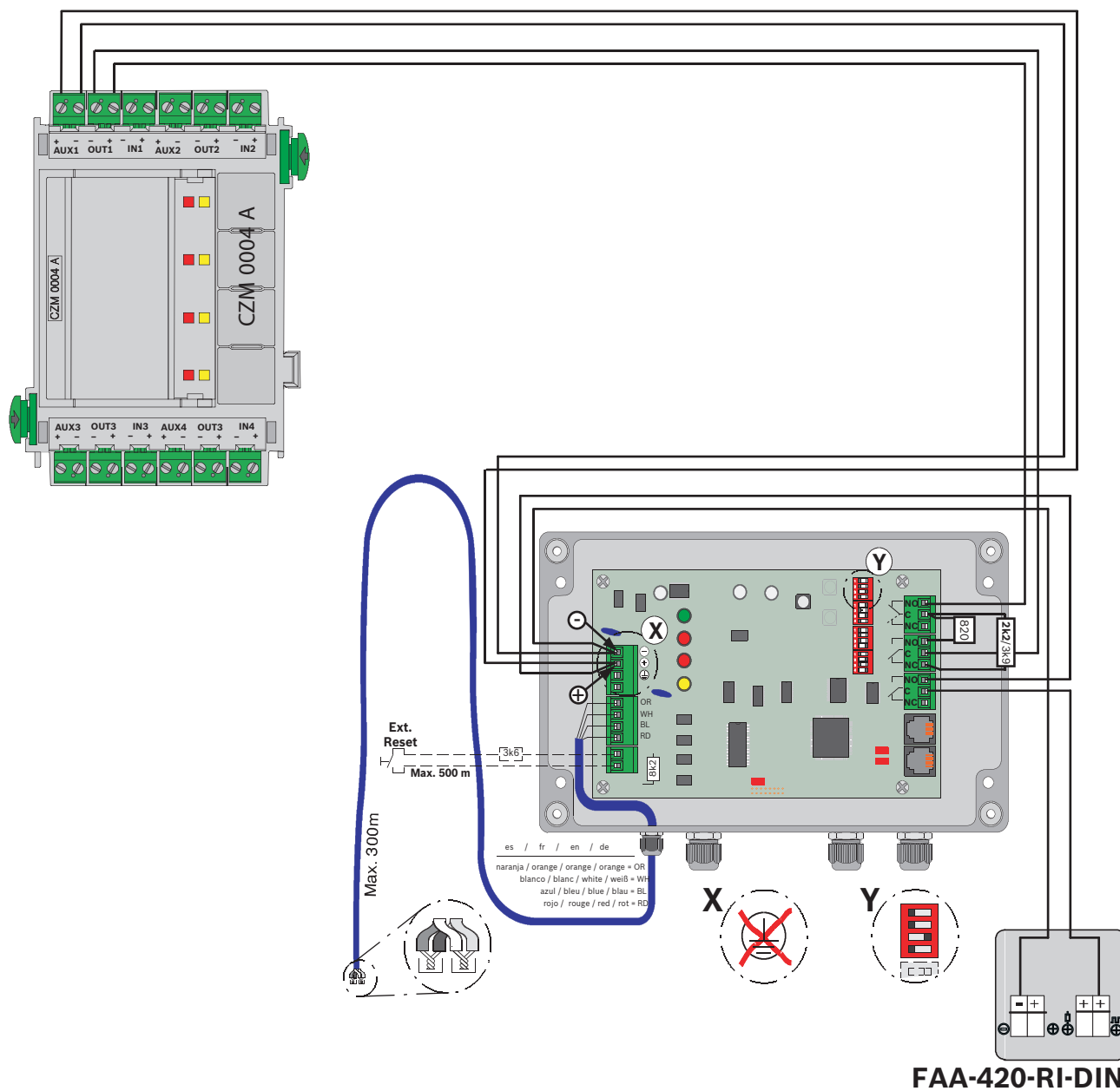
FLM-420-NAC-D

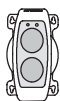


## 3.3.2 CZM 0004 A

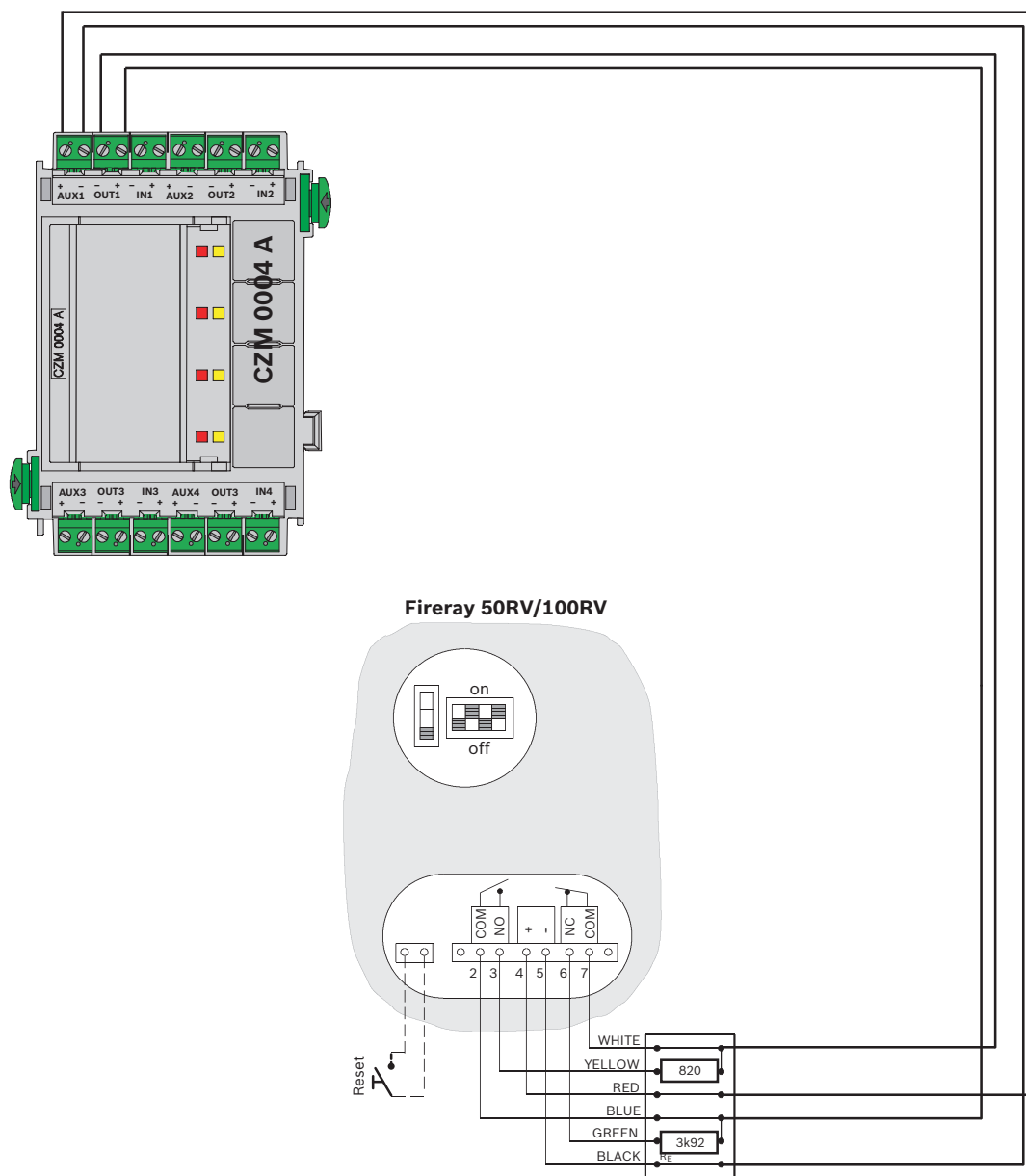


FCS-LWM-1



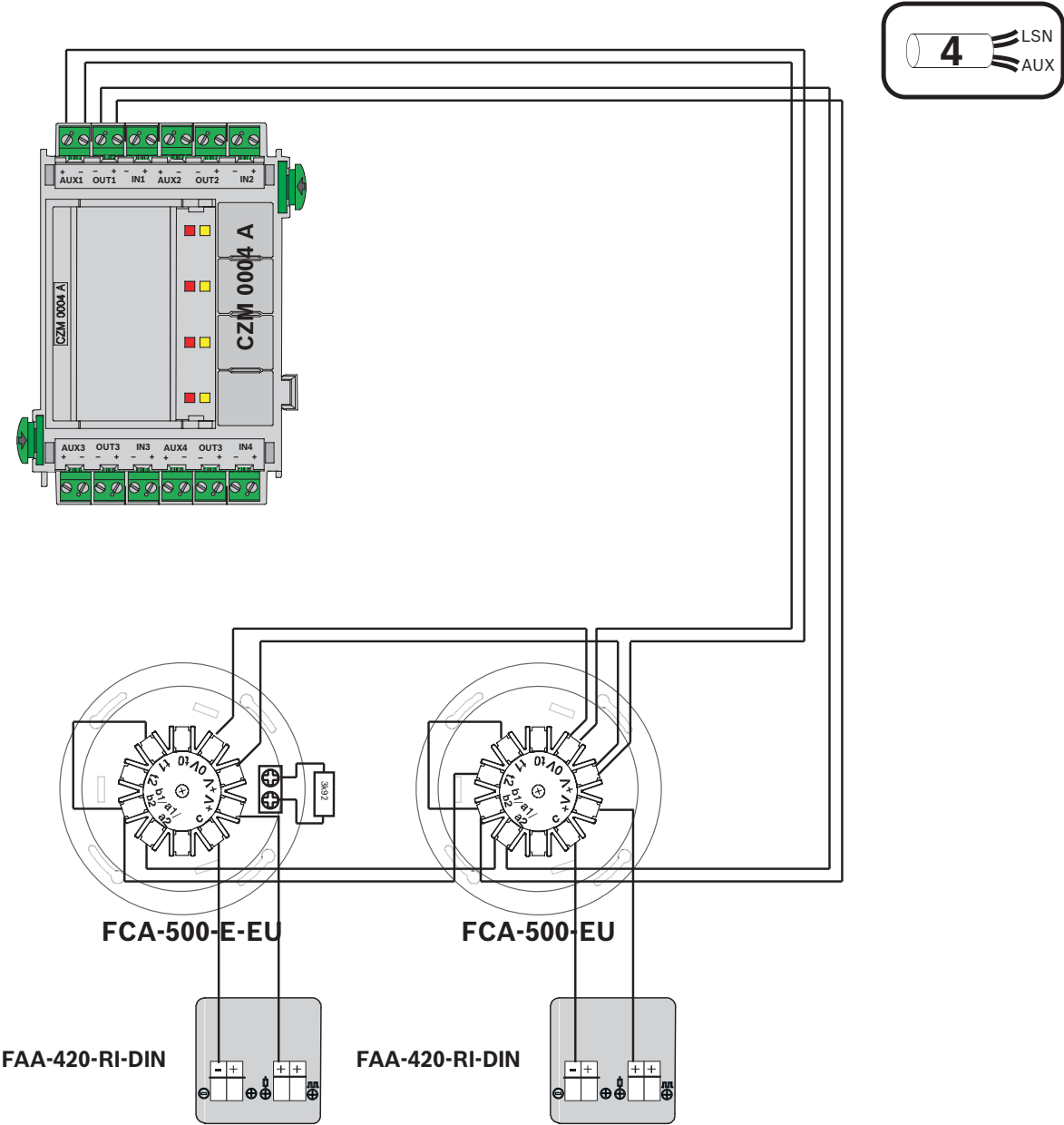
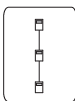


**Fireray 50RV**  
**Fireray 100RV**



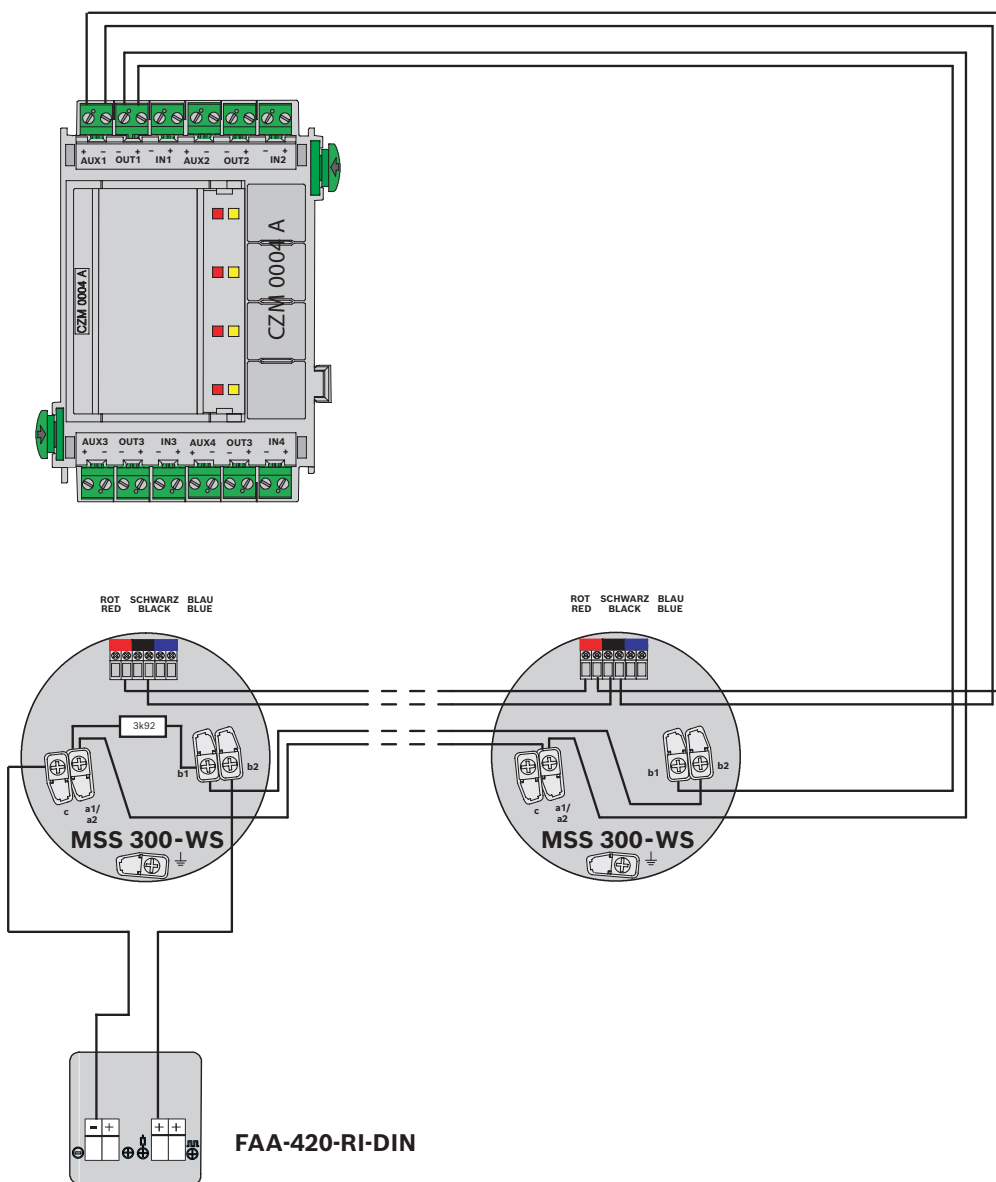


FCP-500





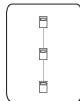
MSS 300-WS



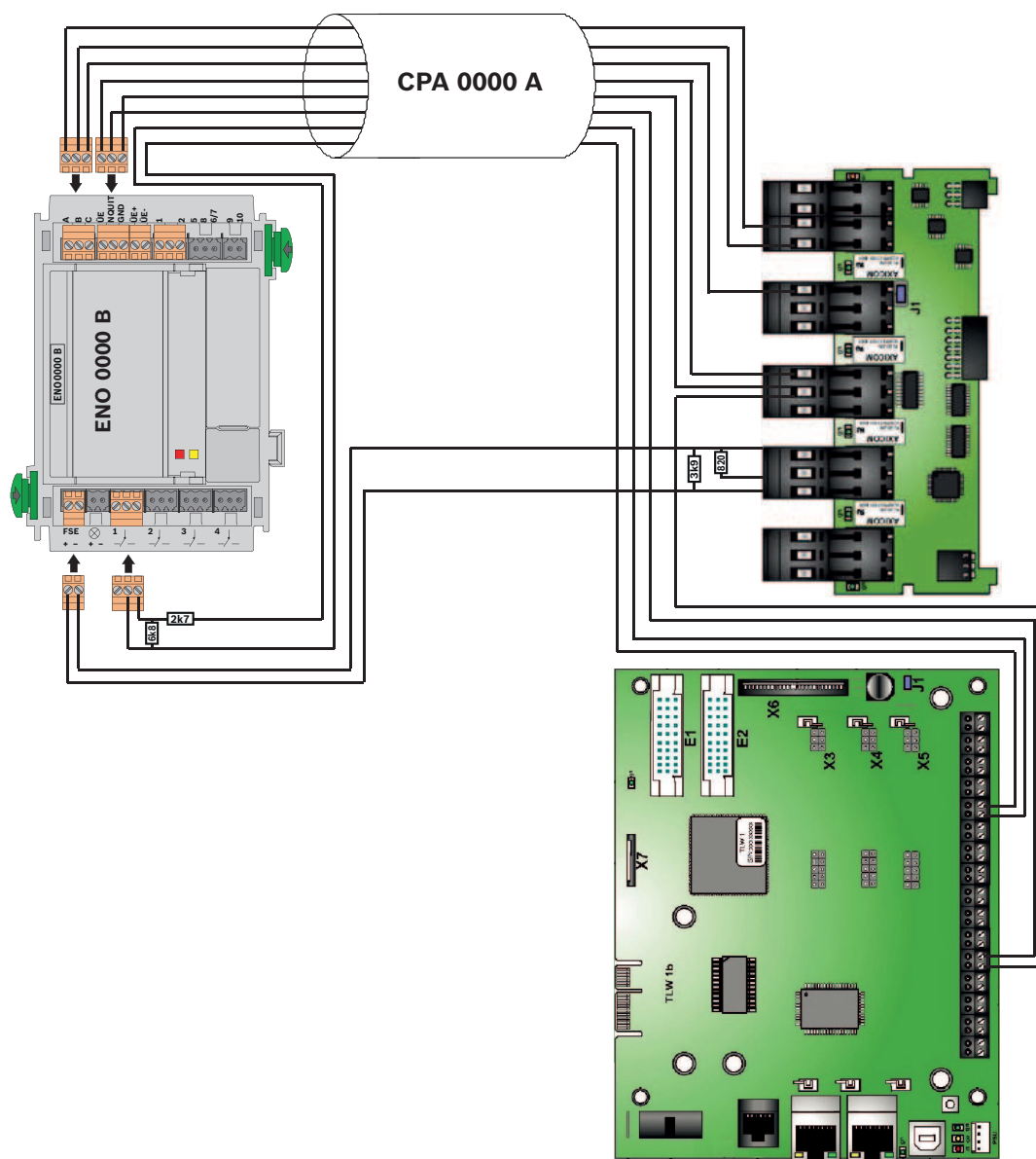
## 3.3.3 ENO 0000 A/B

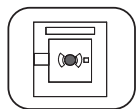


AT5000 IP/GPRS

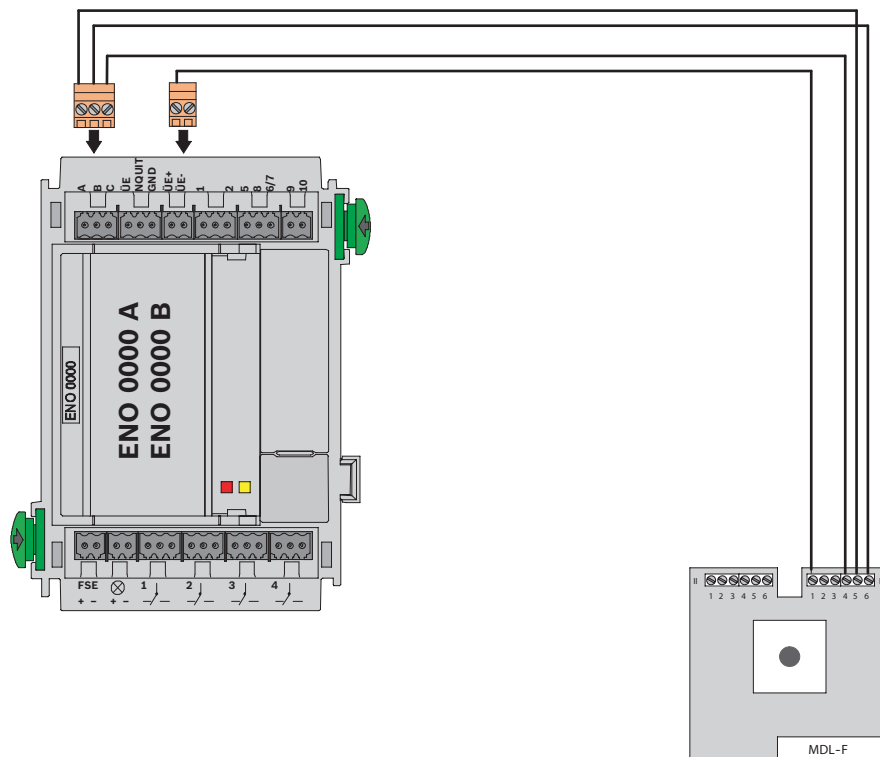


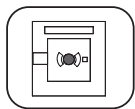
EN 54-2



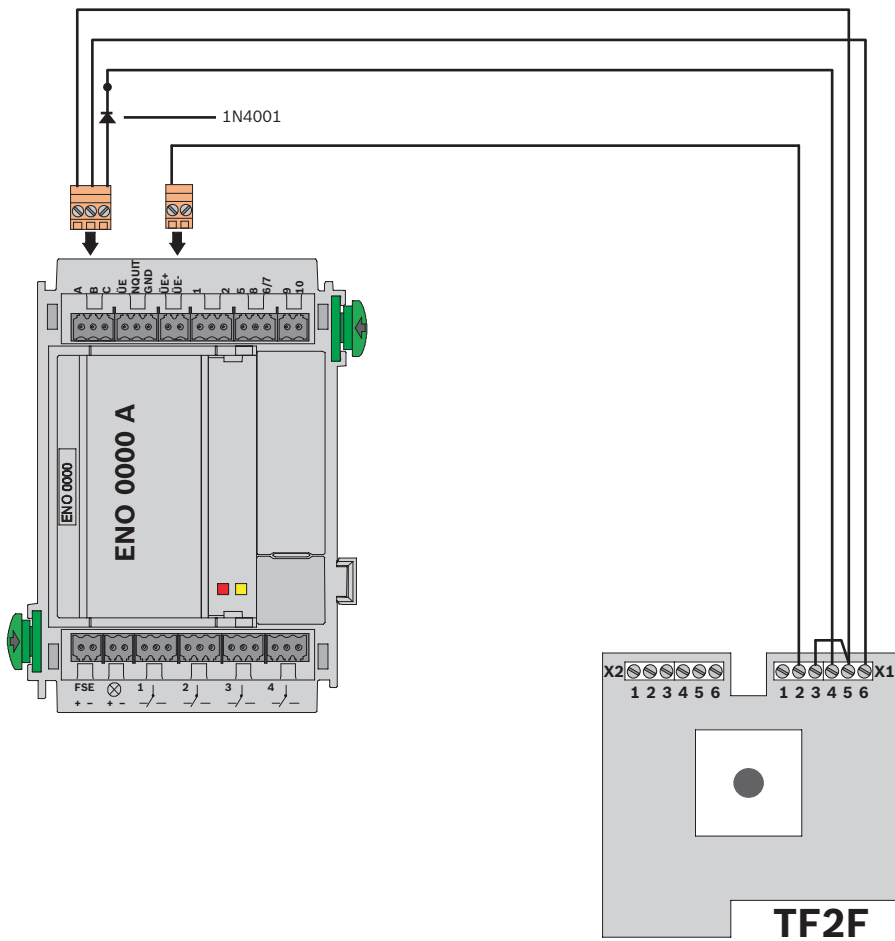
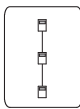


**MDL-F**

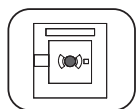




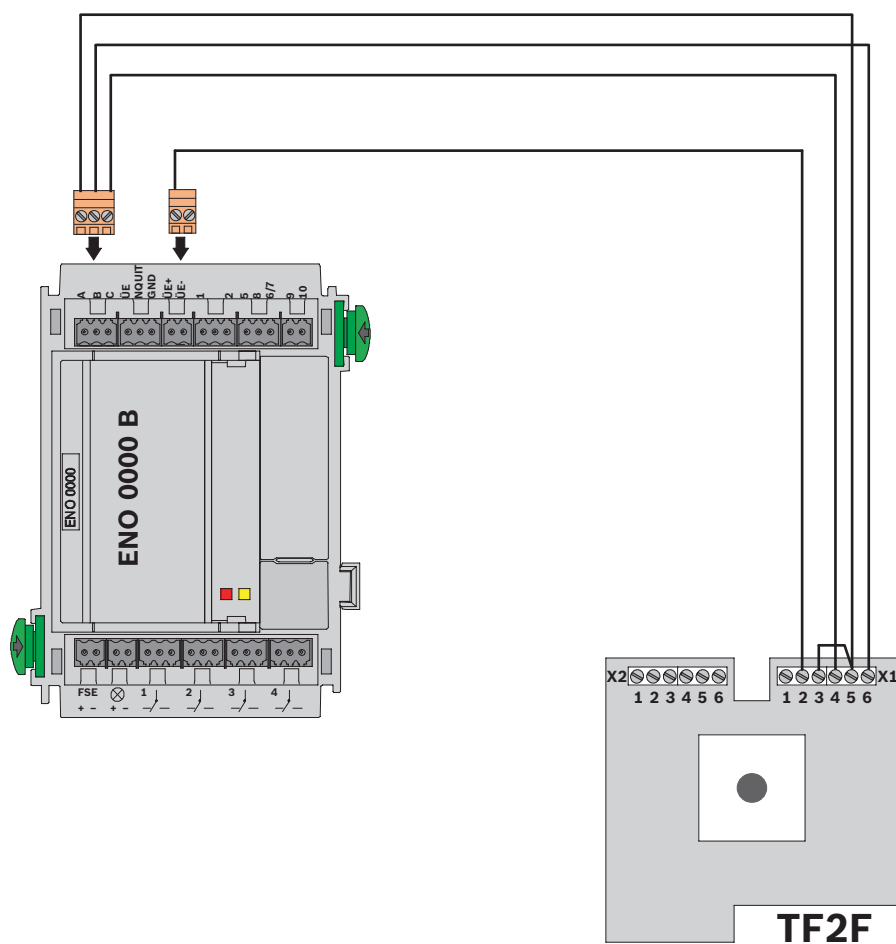
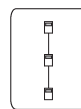
TF2F

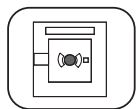




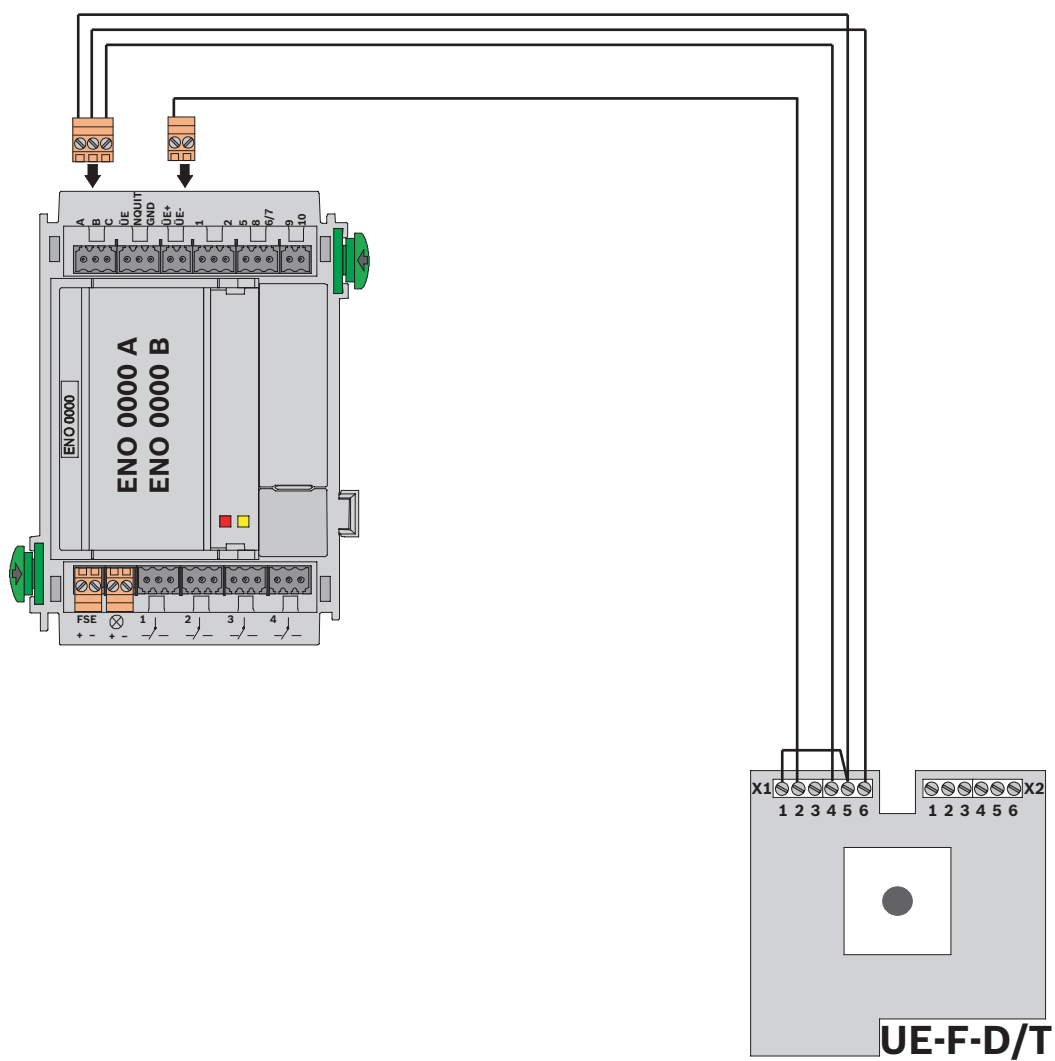


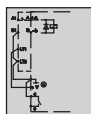
TF2F



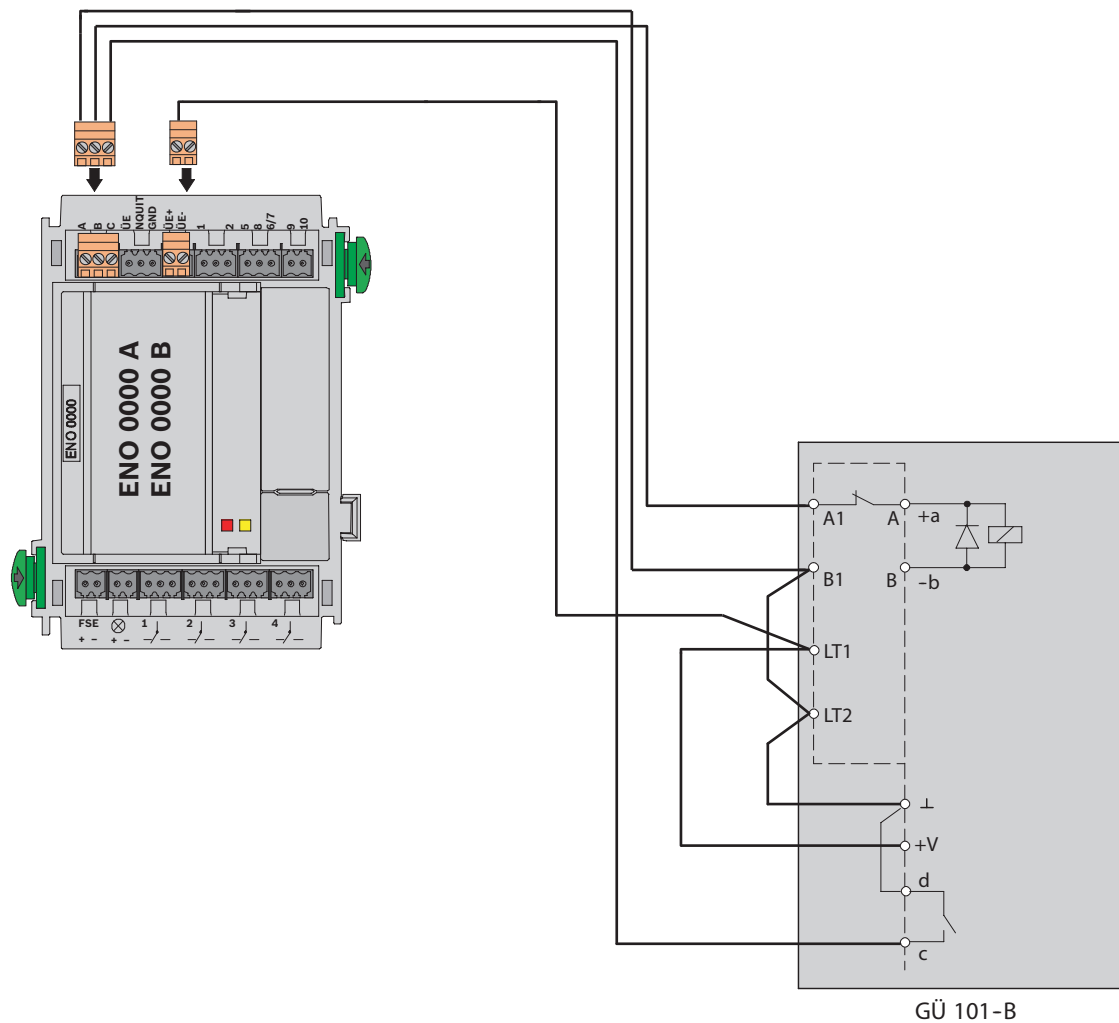
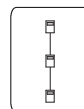


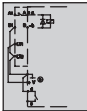
**UE-F-D/T**



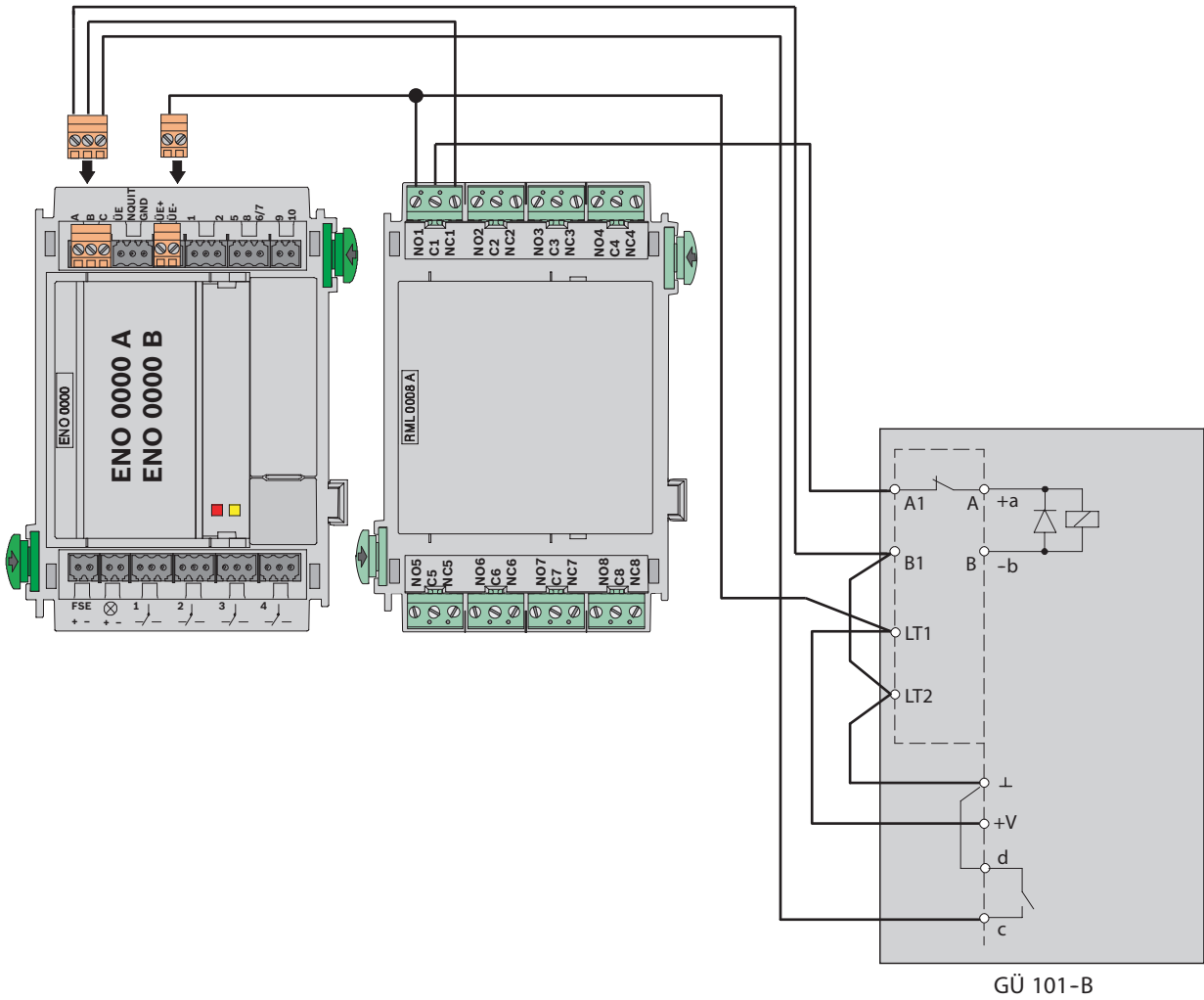
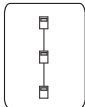


**GÜ 101-B**



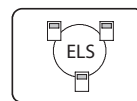
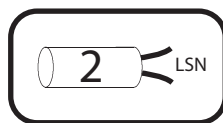


GÜ 101-B

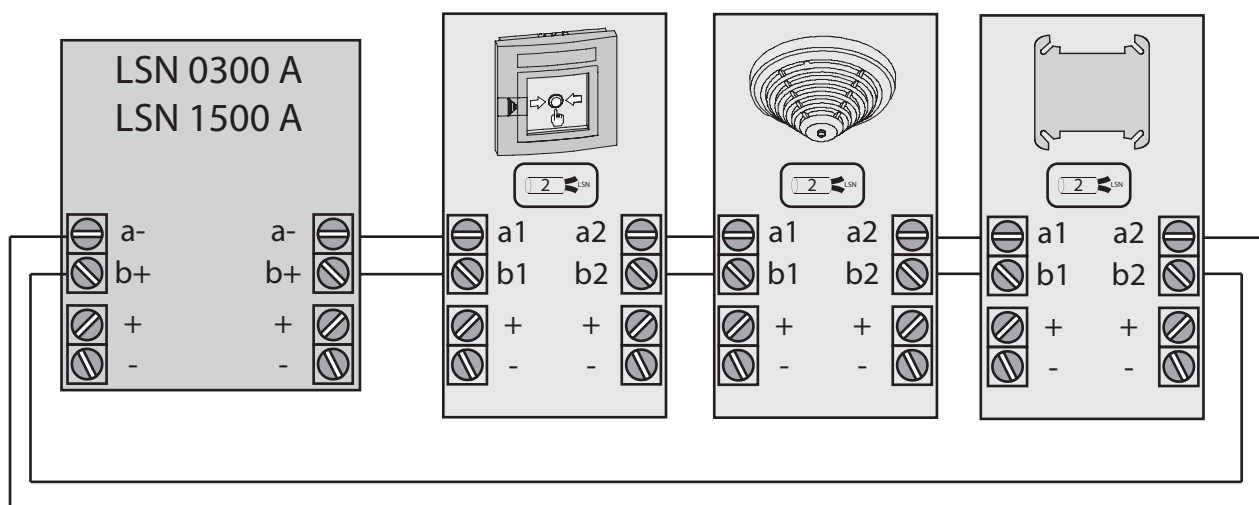


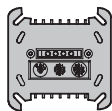
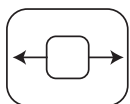
### 3.3.4

### LSN 0300 A

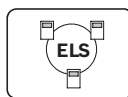


VdS 2489

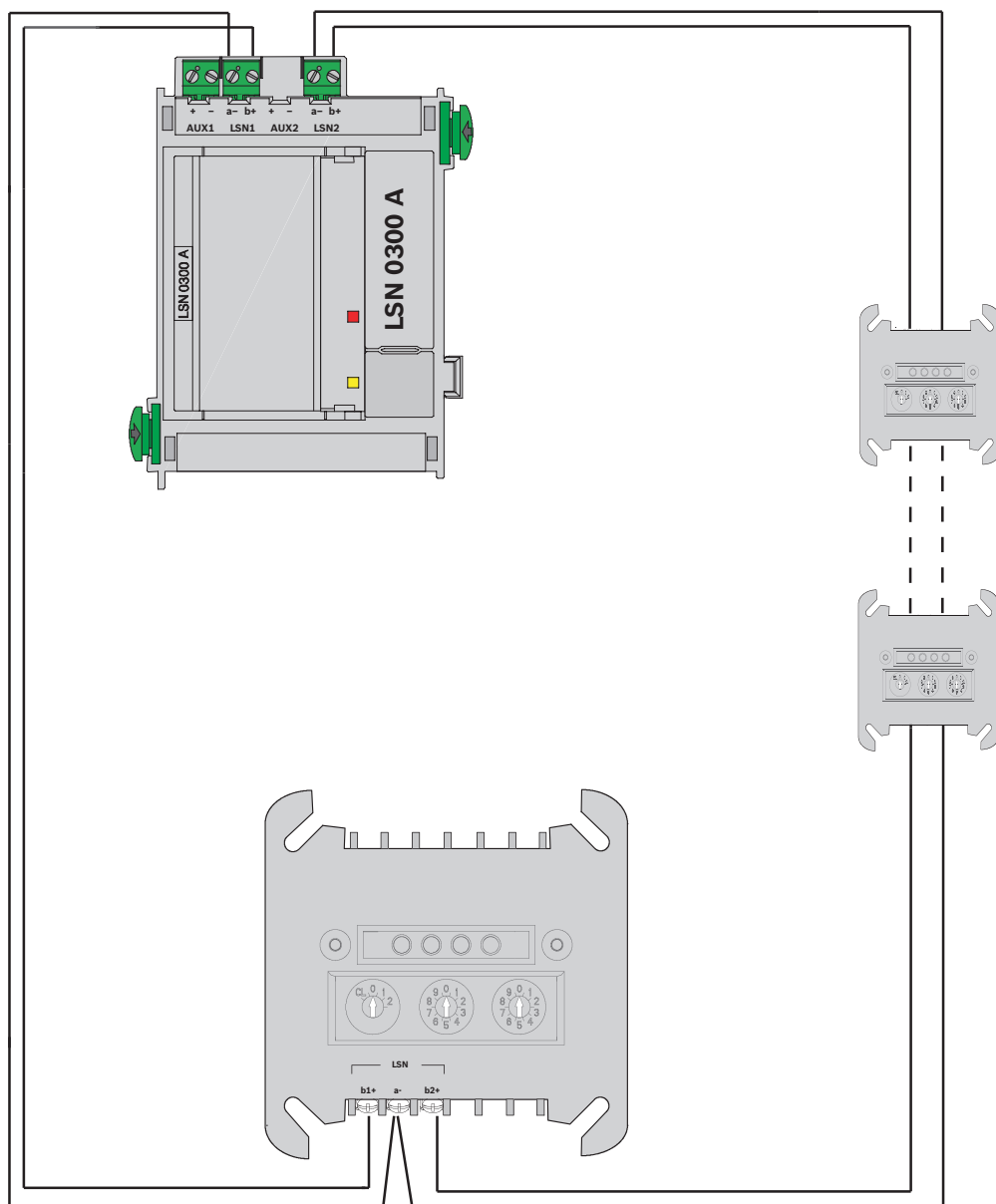


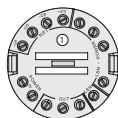
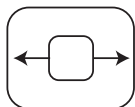


FLM-I 420-S  
FLM-420-I2-D  
FLM-420-O1I1-D  
FLM-420-RHV-D/S  
FLM-420-RLV1-D

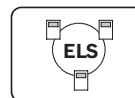


VdS 2489

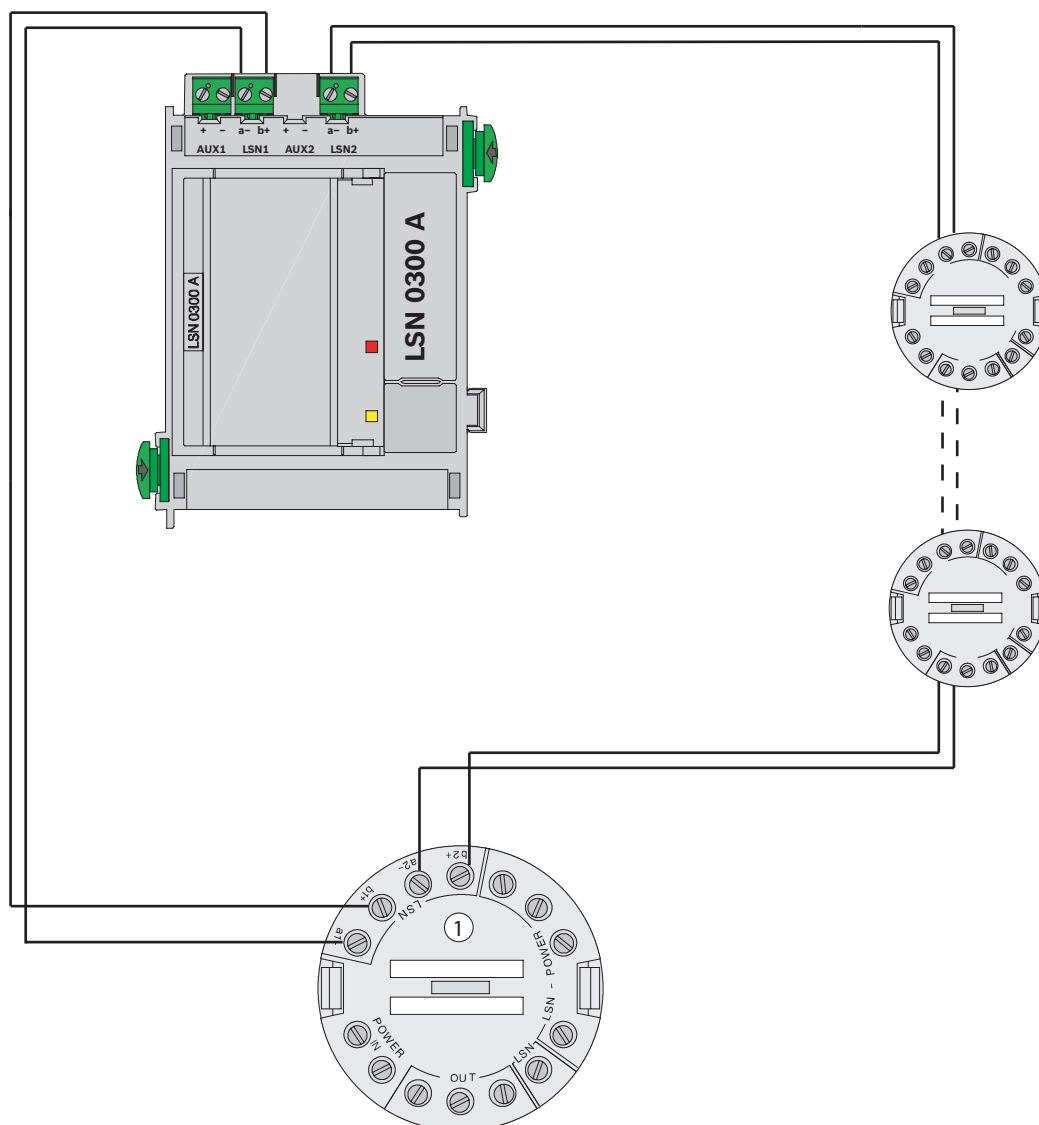


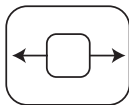


**FLM-420-I2-E/W**  
**FLM-420-RLV1-E**

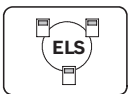


**VdS 2489**

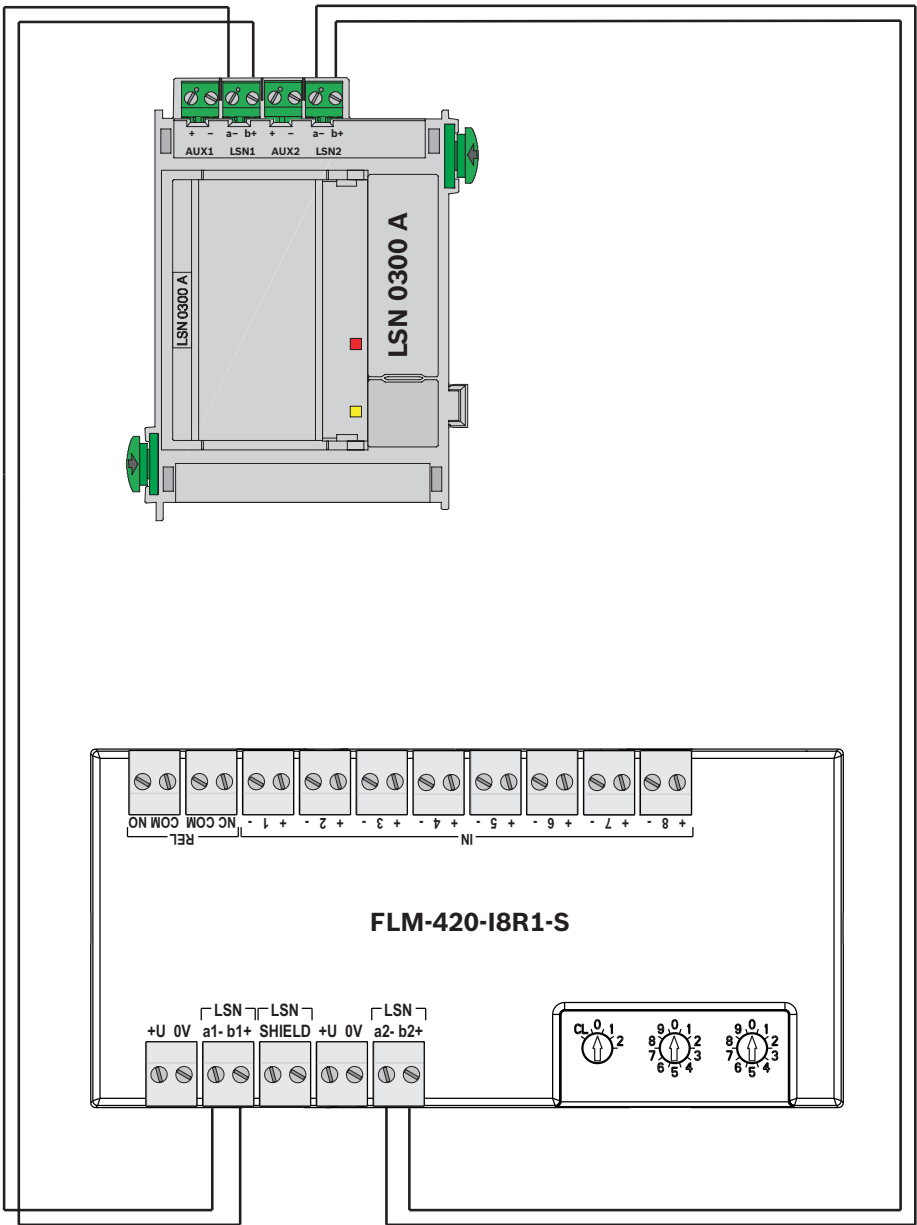




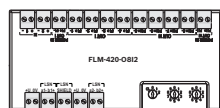
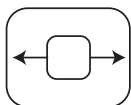
FLM-420-I8R1-S



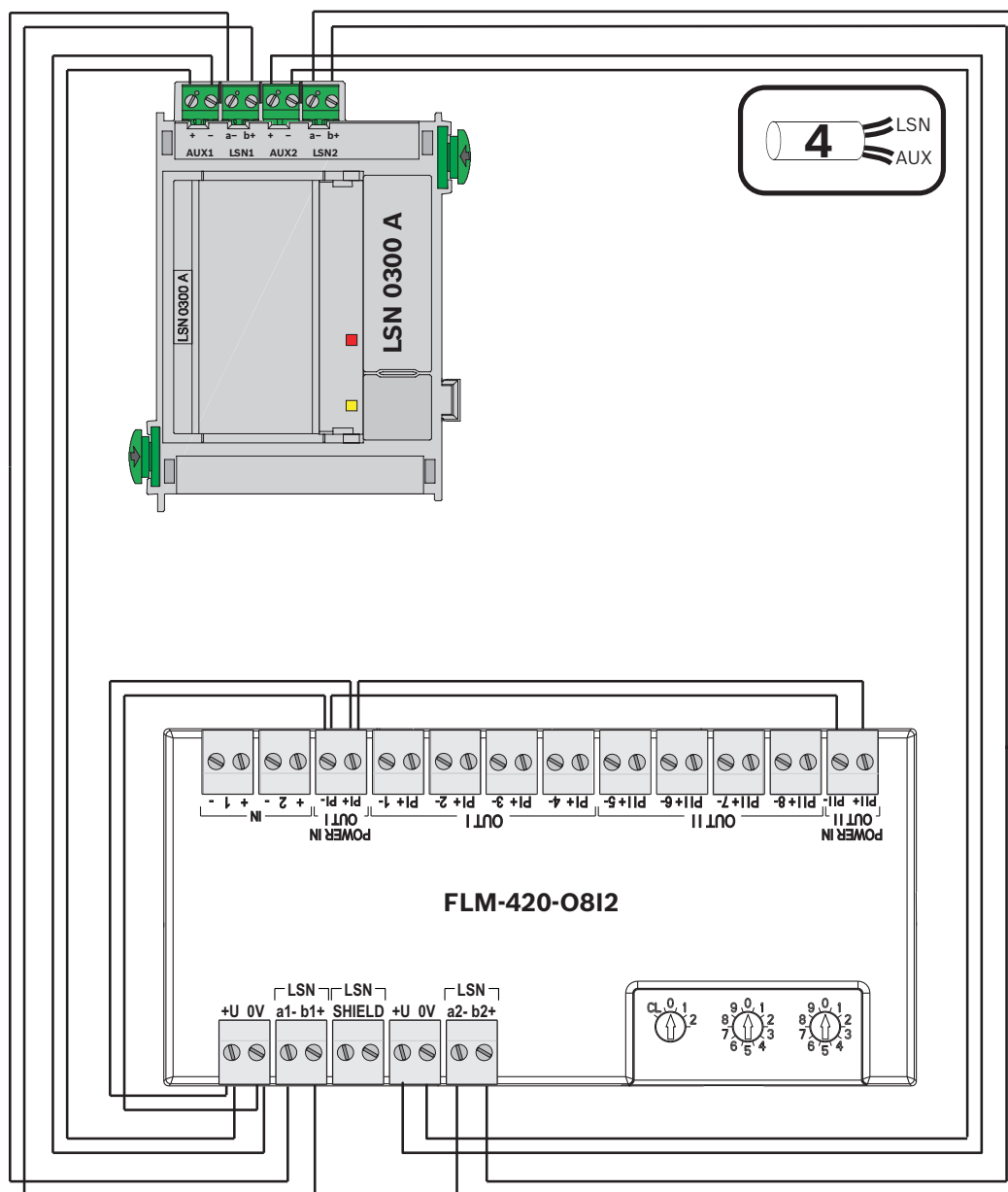
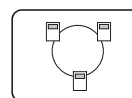
VdS 2489

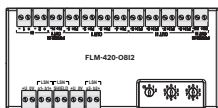
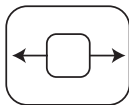




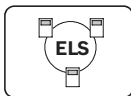


FLM-420-O8I2-S

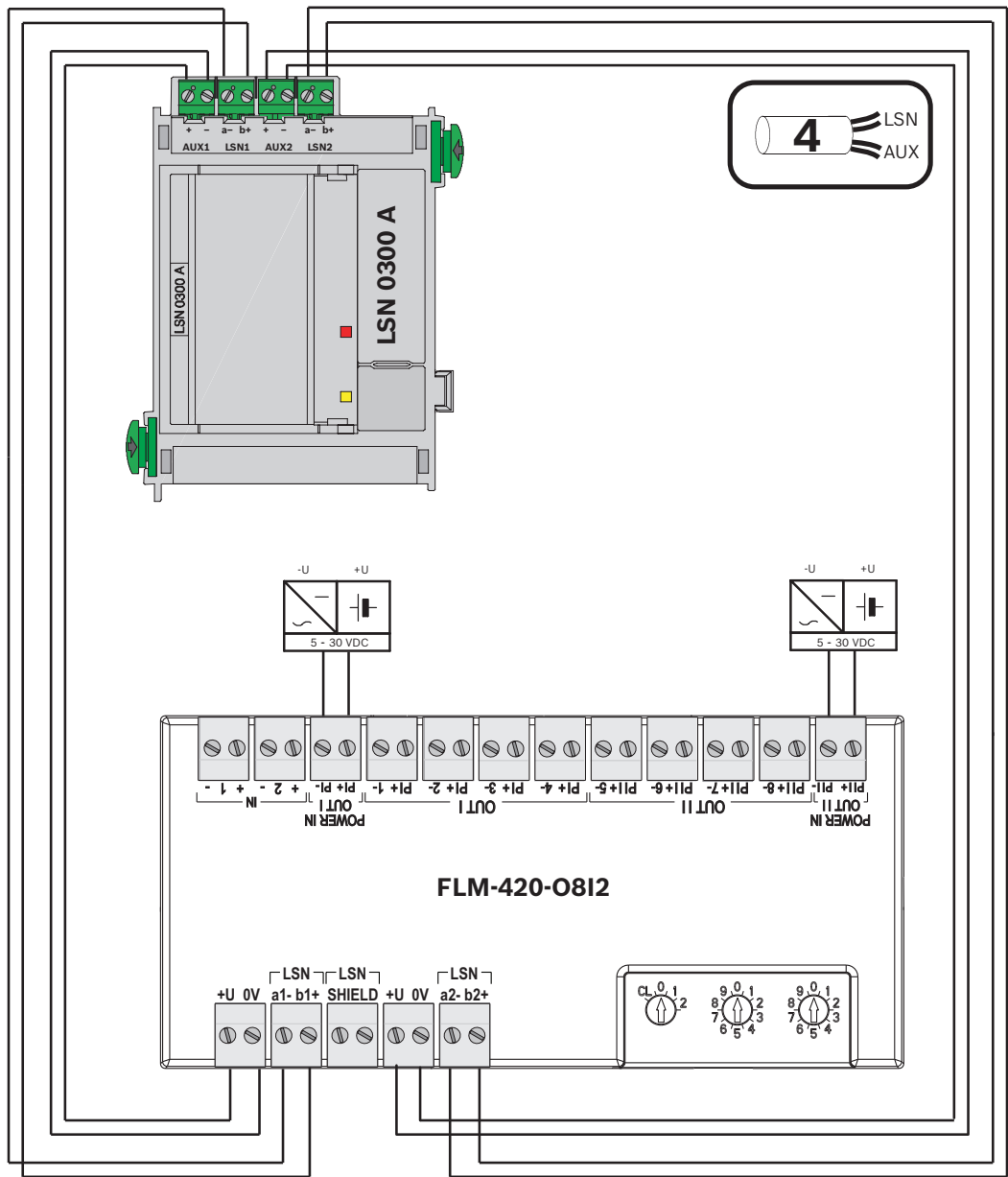


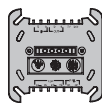
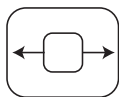


FLM-420-0812-S

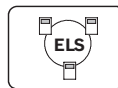


VdS 2489

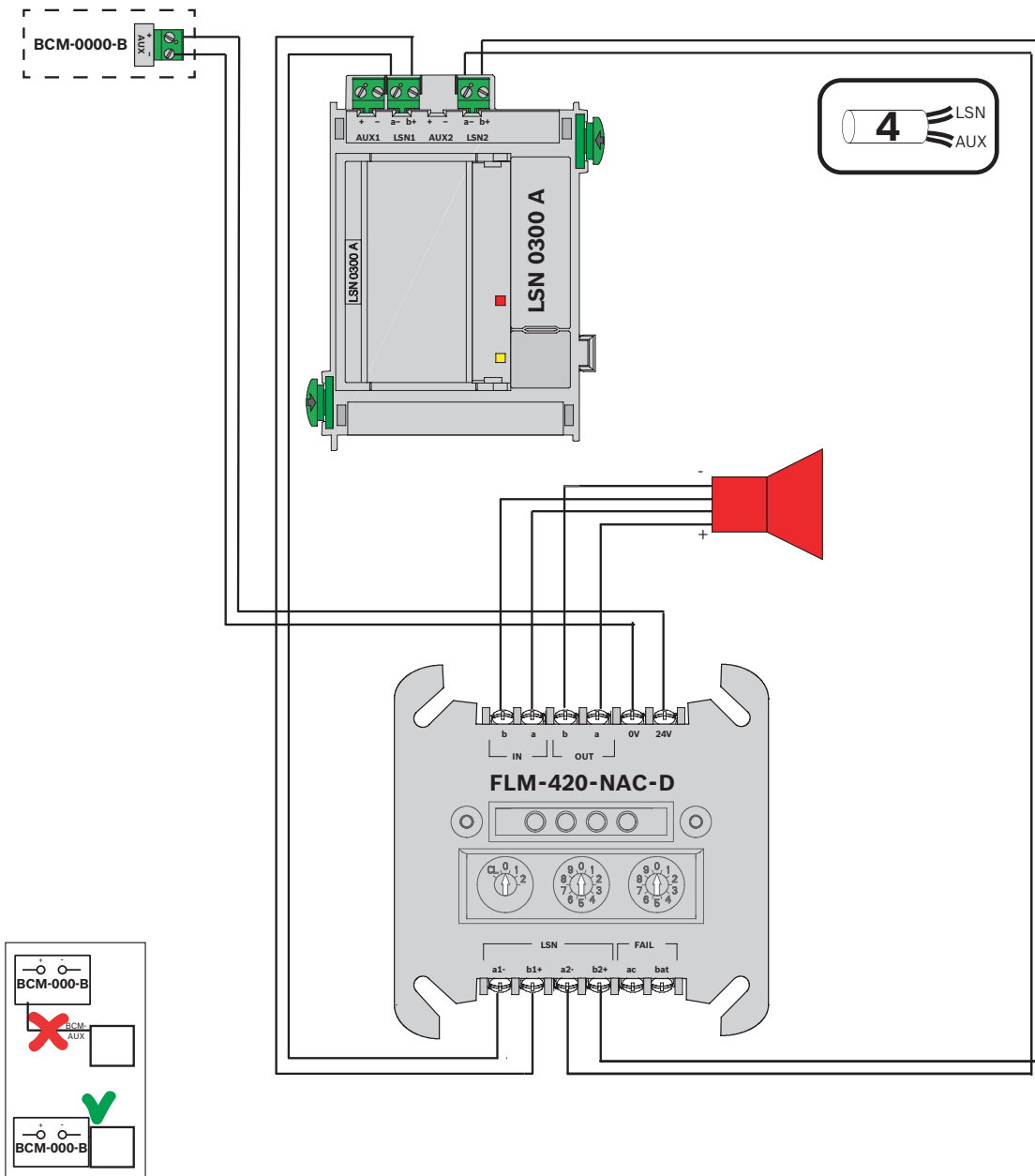


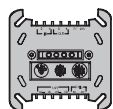
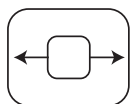


FLM-420-NAC-D/S

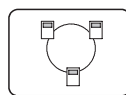


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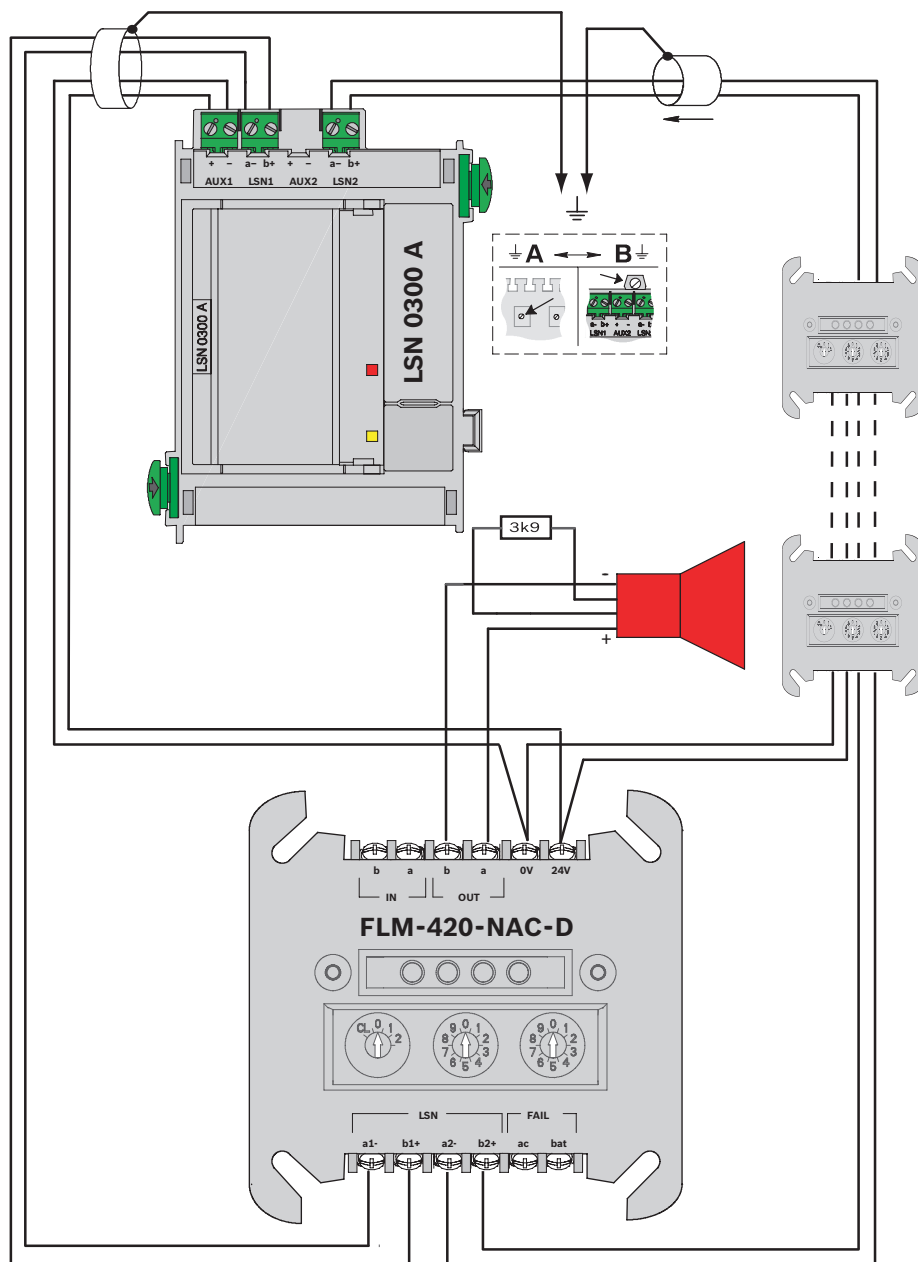


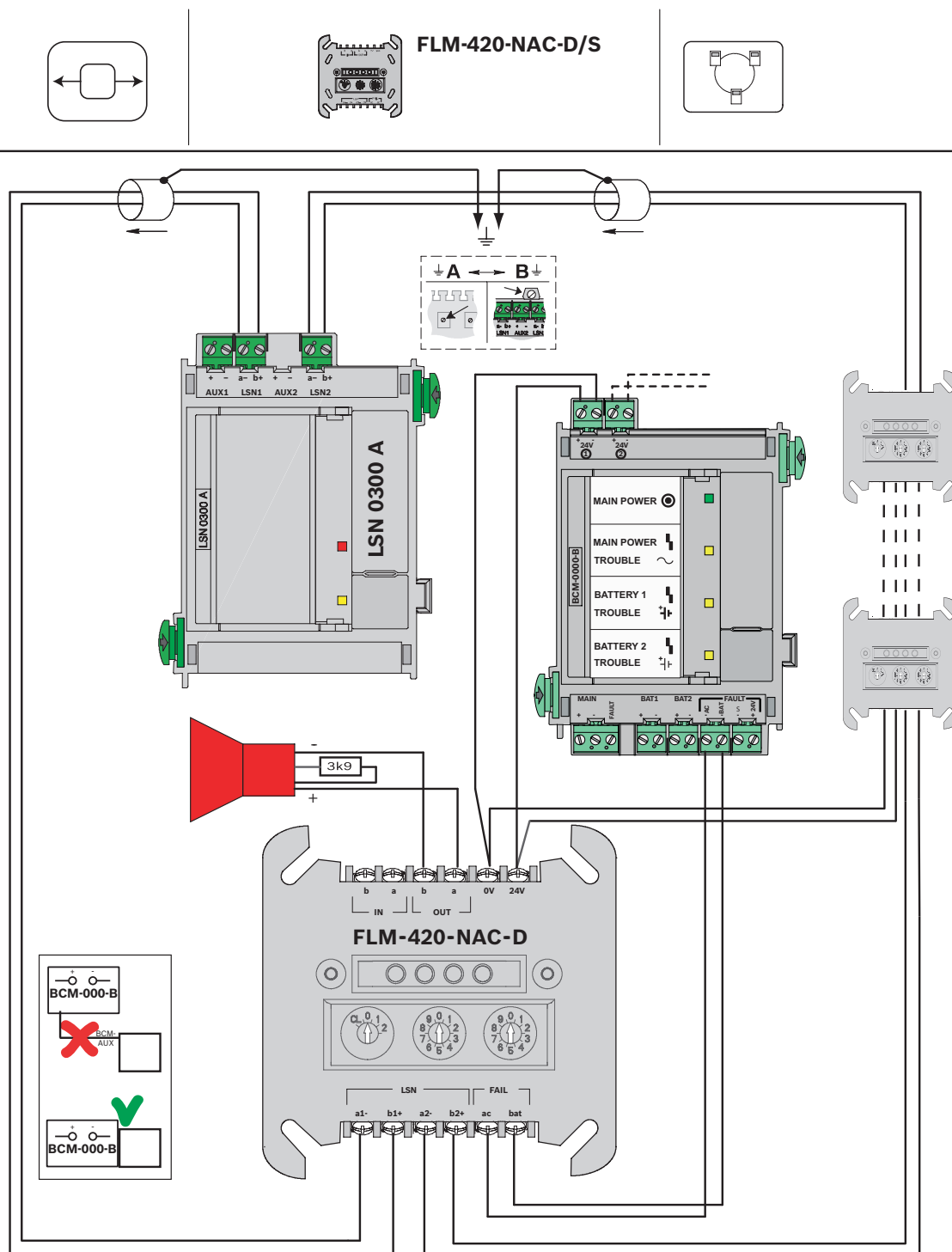


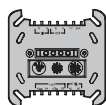
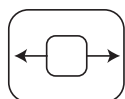
FLM-420-NAC-D/S



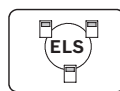
EN 54-2



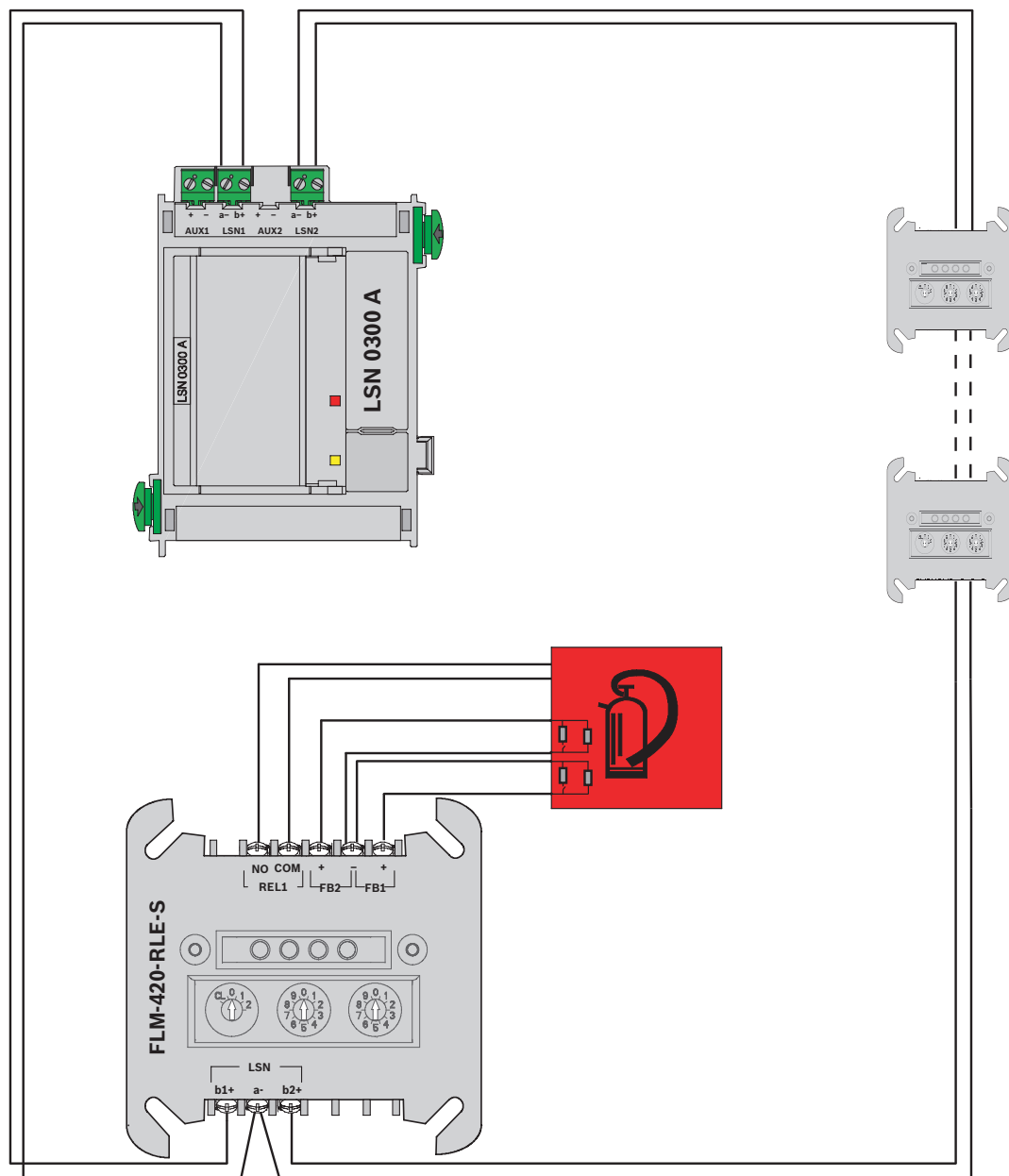


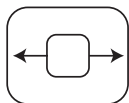


FLM-420-RLE-S

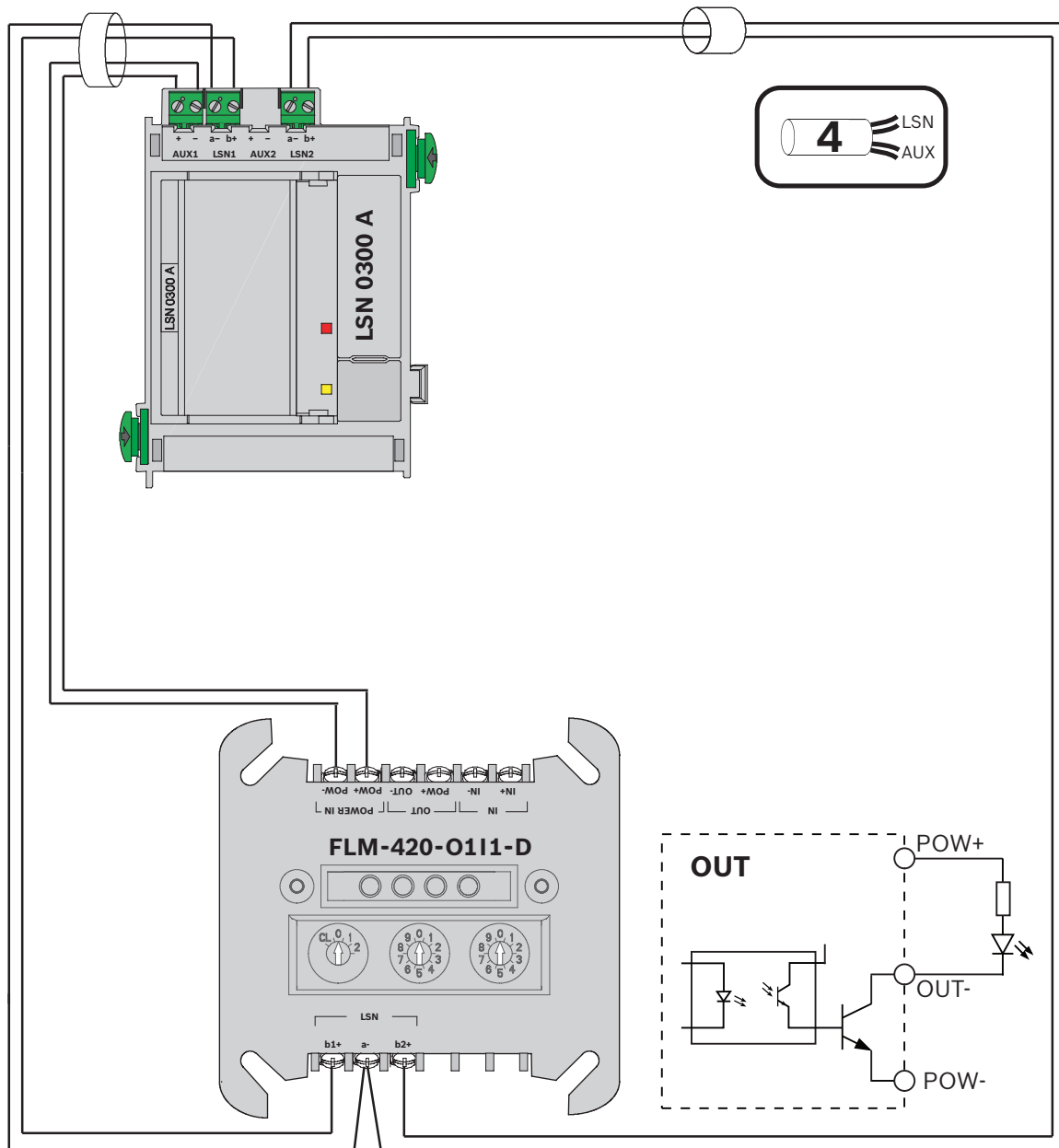
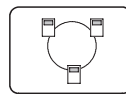


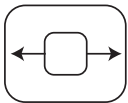
VdS 2489



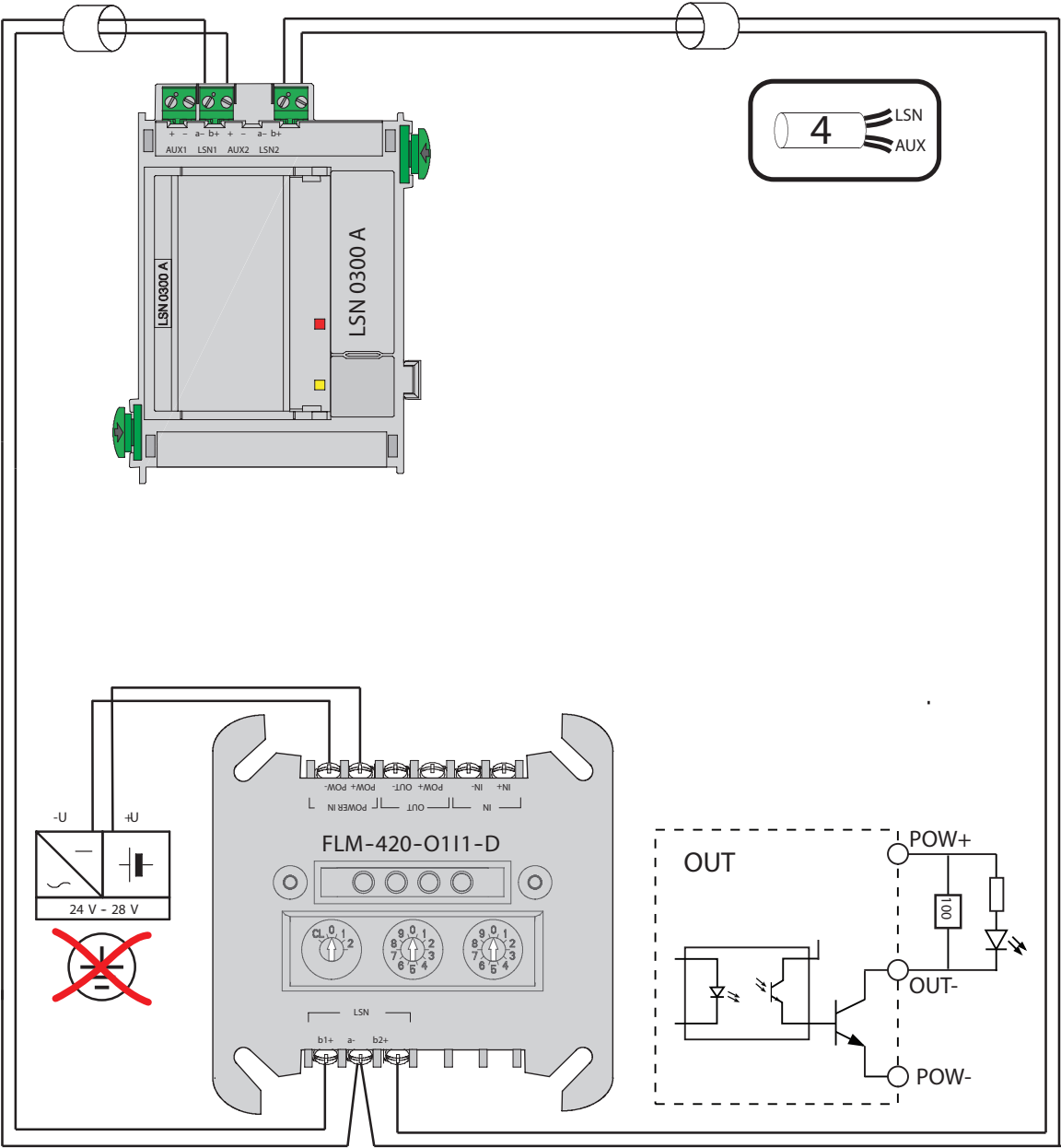
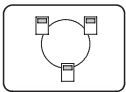


FLM-420-O1I1-D

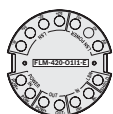
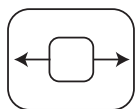




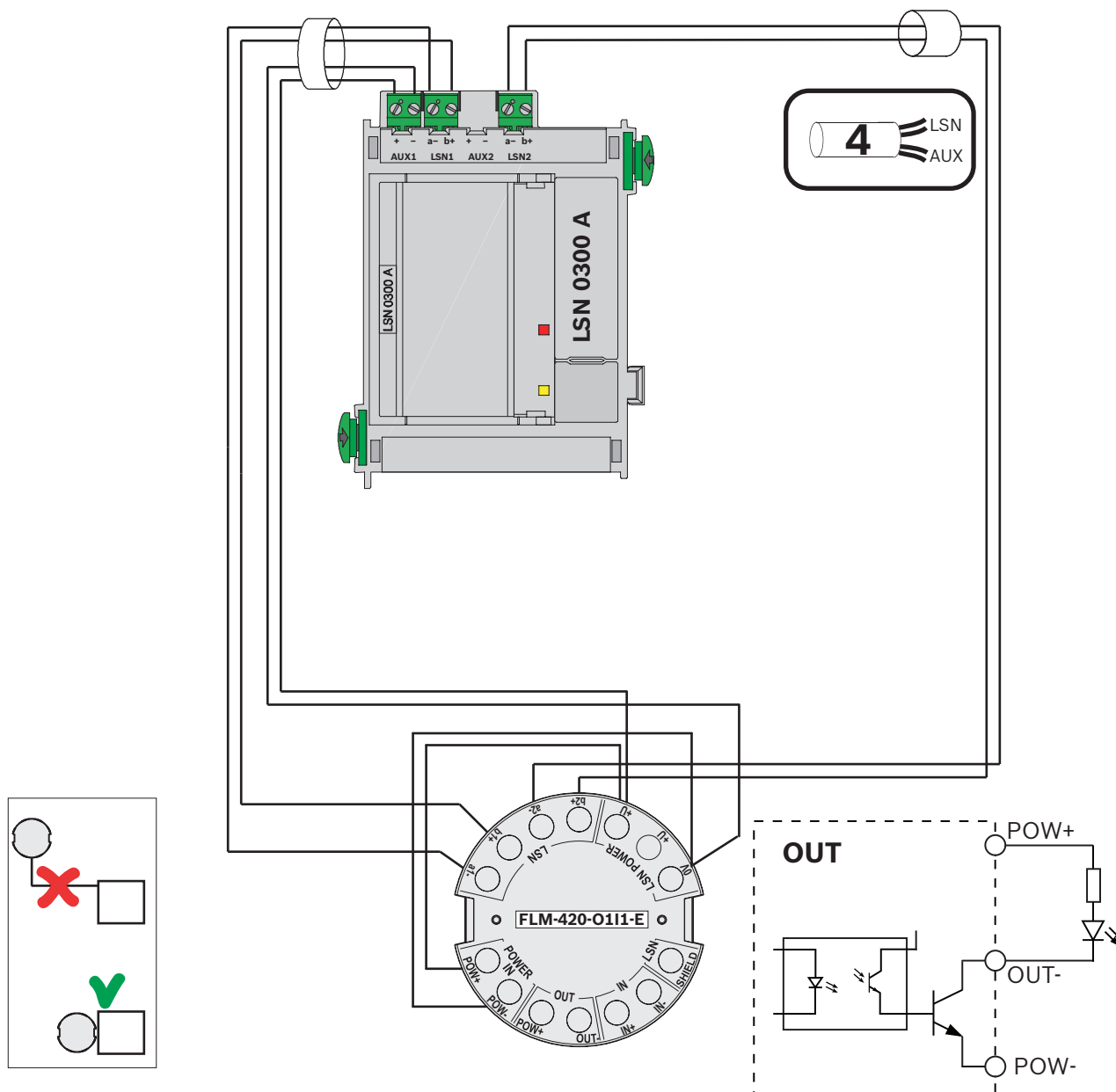
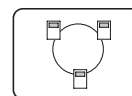
FLM-420-O111-D

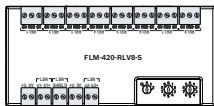
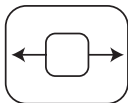




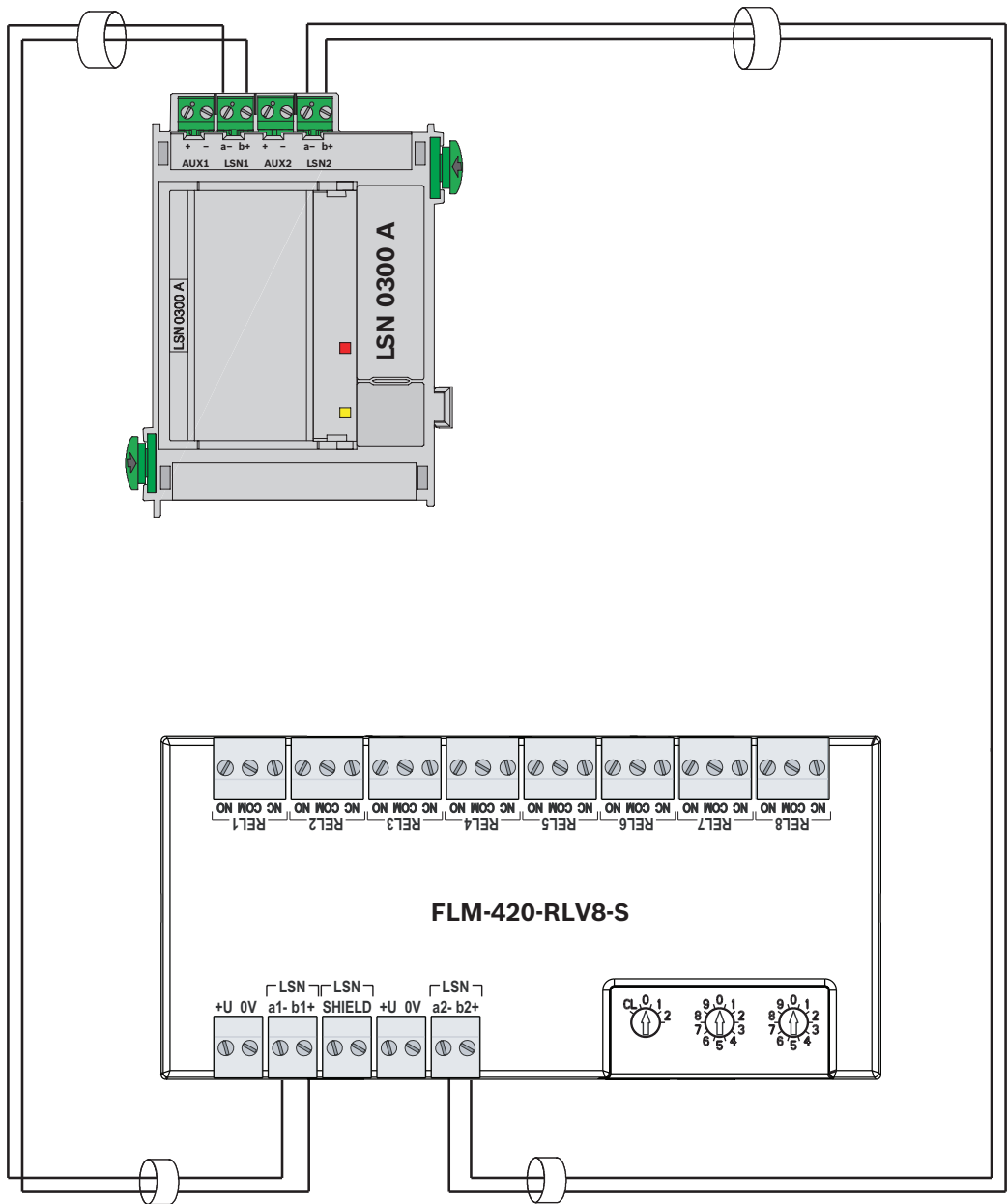
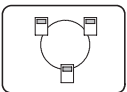


**FLM-420-O1I1-E**



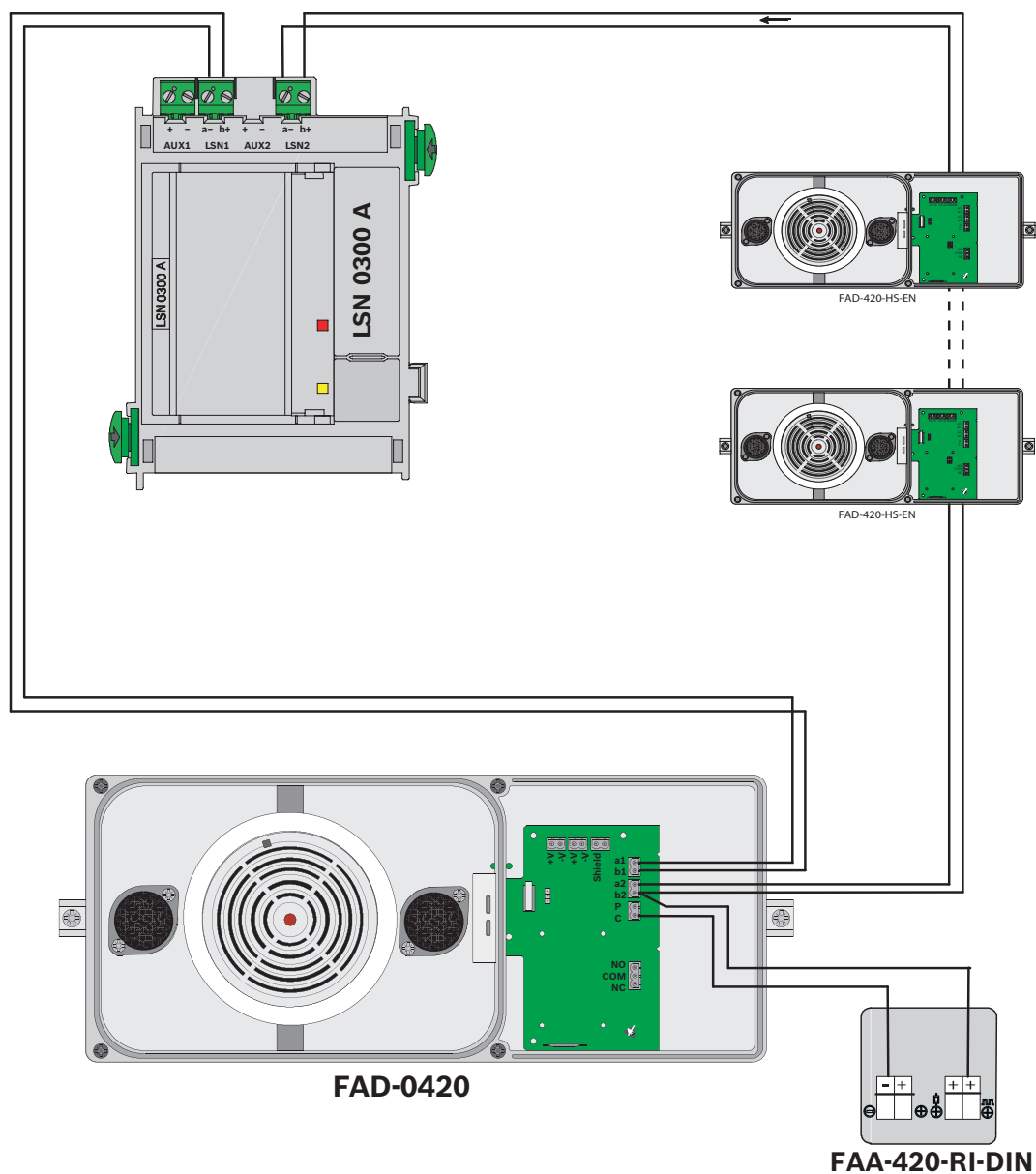


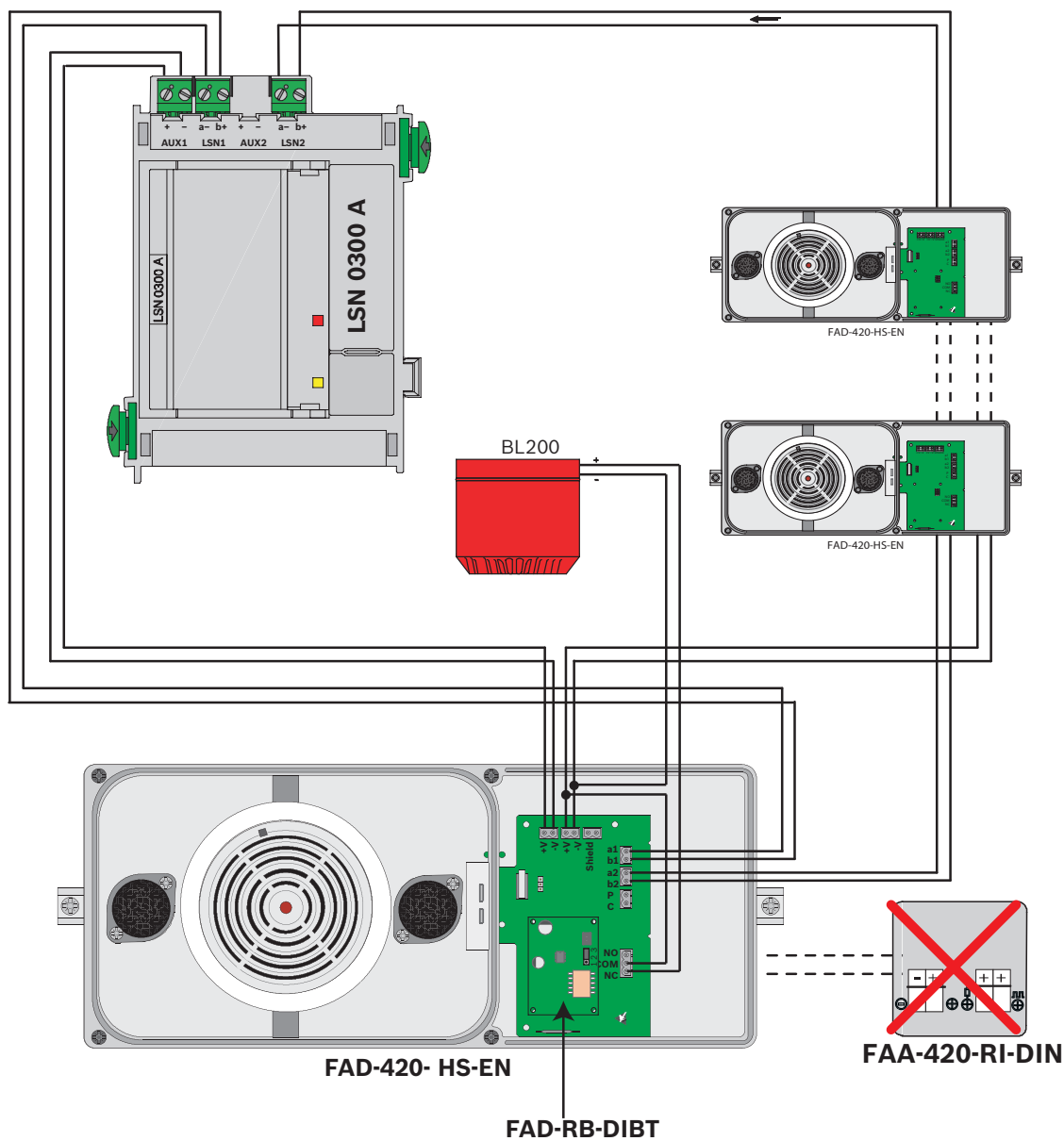
FLM-420-RLV8-S

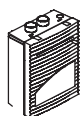




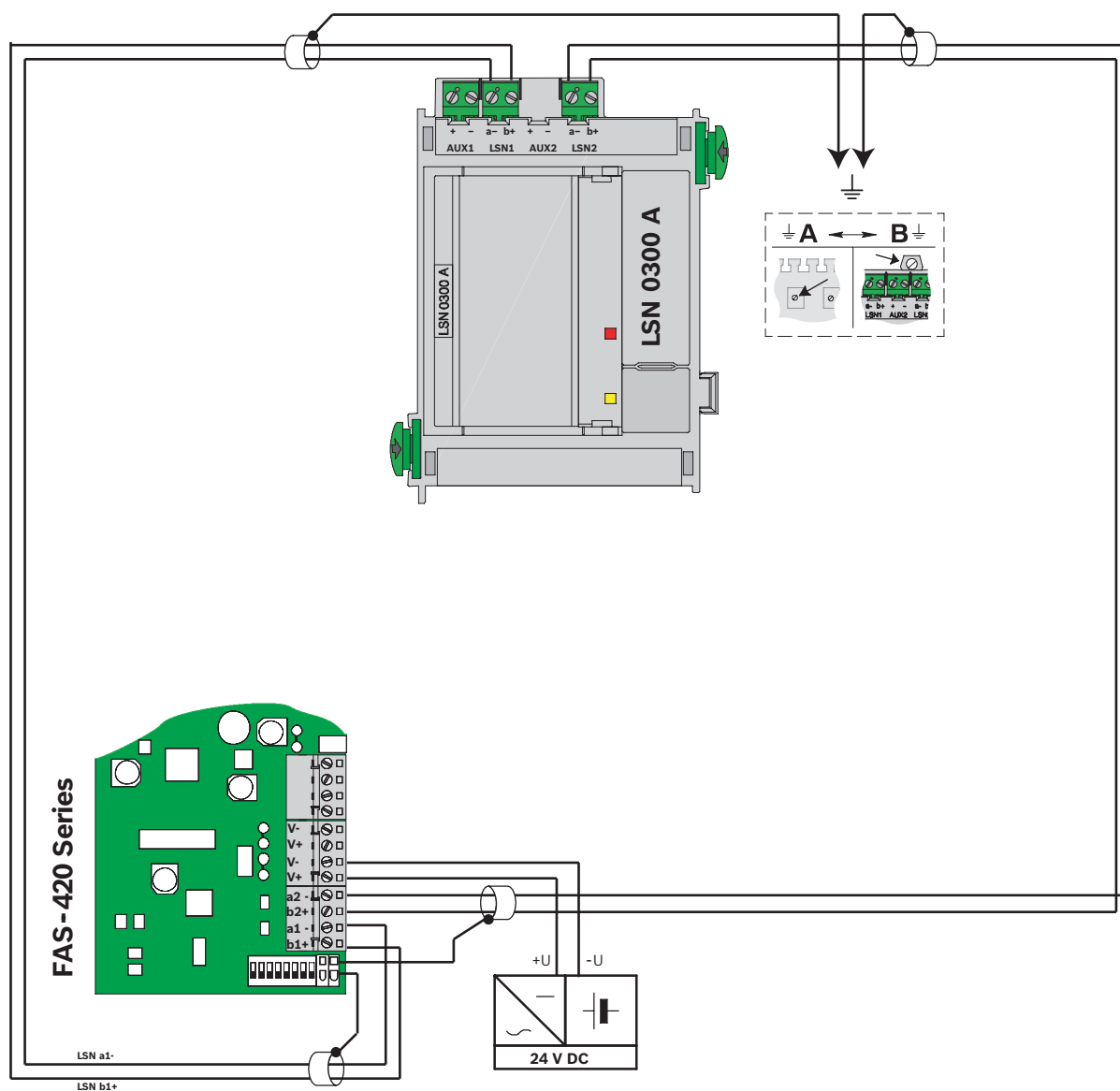
**FAD-0420**

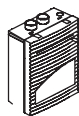


**FAD-420-HS-EN**

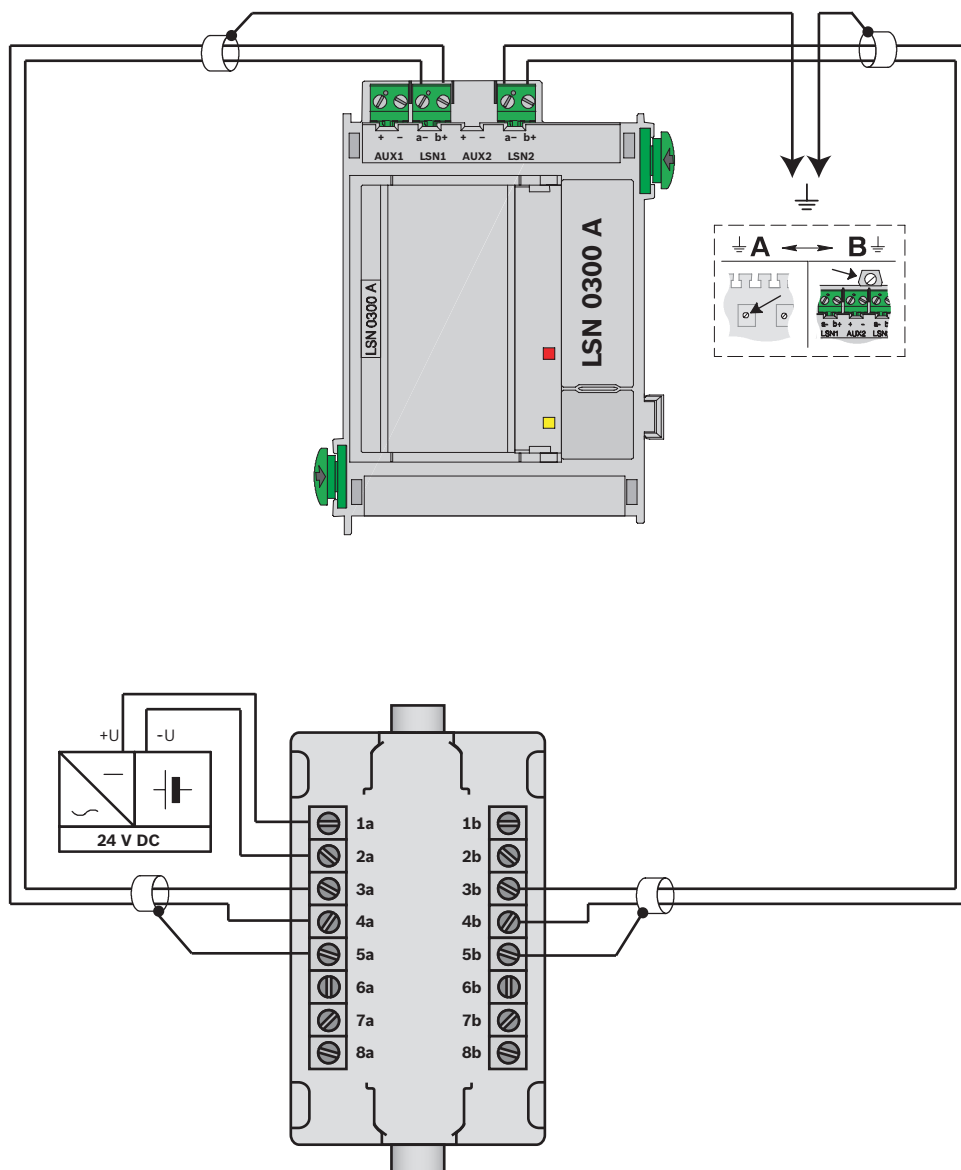


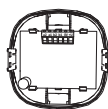
## FAS-420 Series



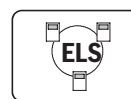


## FAS-420-TM Series

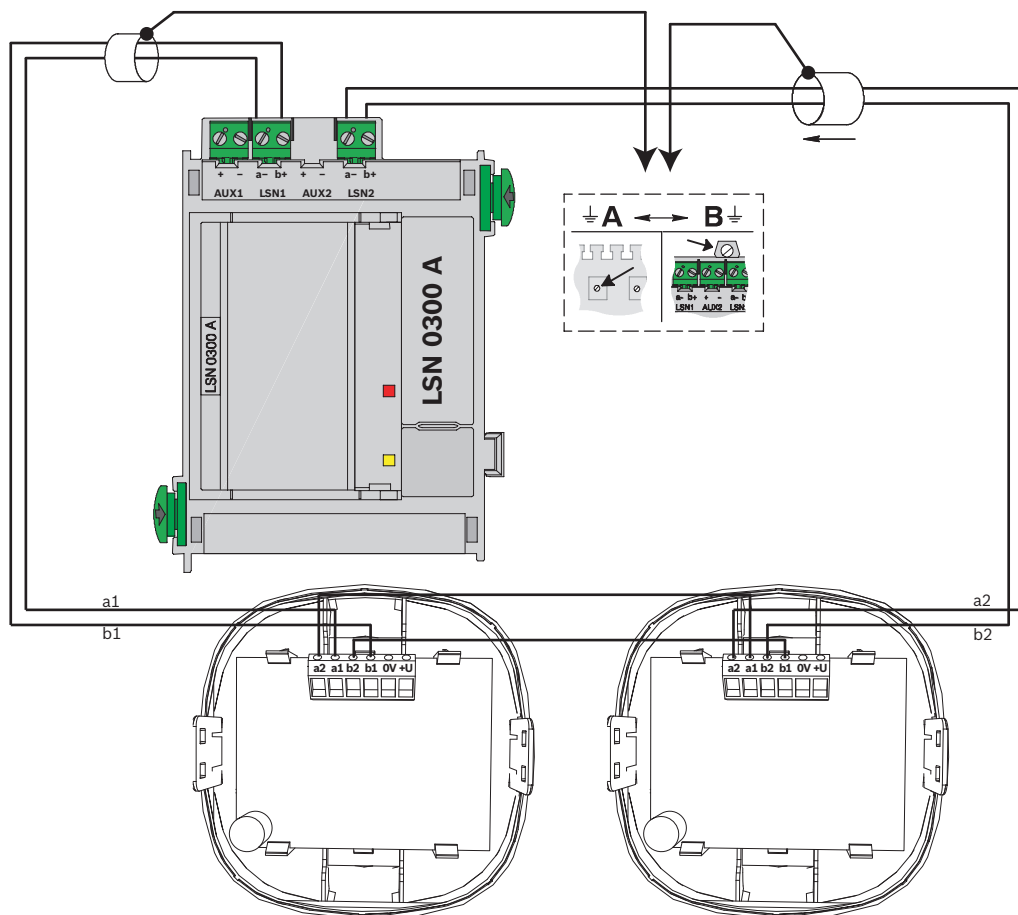




**FNM-420-A / -B**  
**FNM-420U-A / -B**  
**FNM-420V-A**



**VdS 2489**

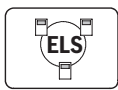


**FNM-420-A/-B**  
**FNM-420U-A/-B**  
**FNM-420V-A**

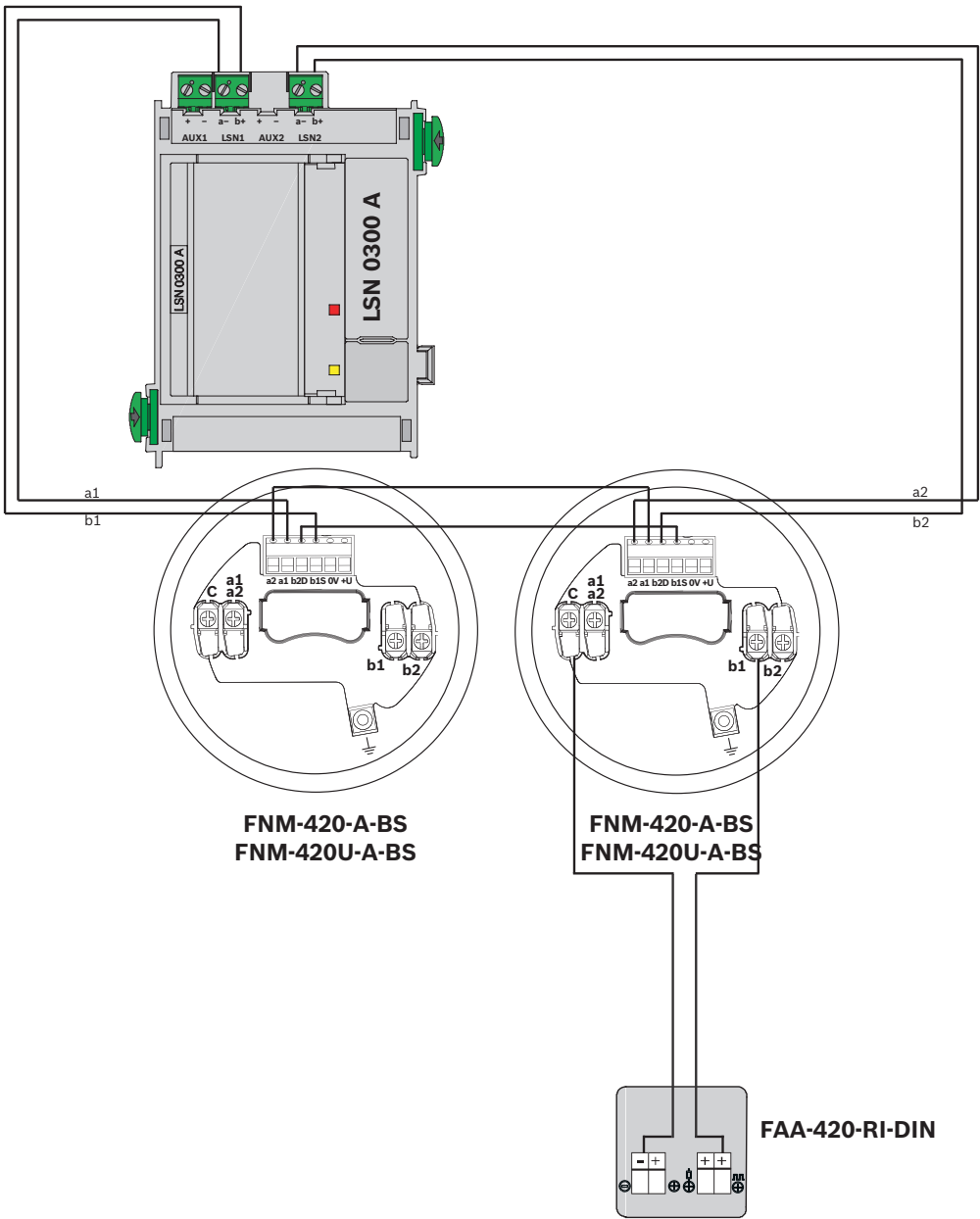
**FNM-420-A/-B**  
**FNM-420U-A/B**  
**FNM-420V-A**



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



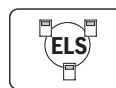
**VdS 2489**



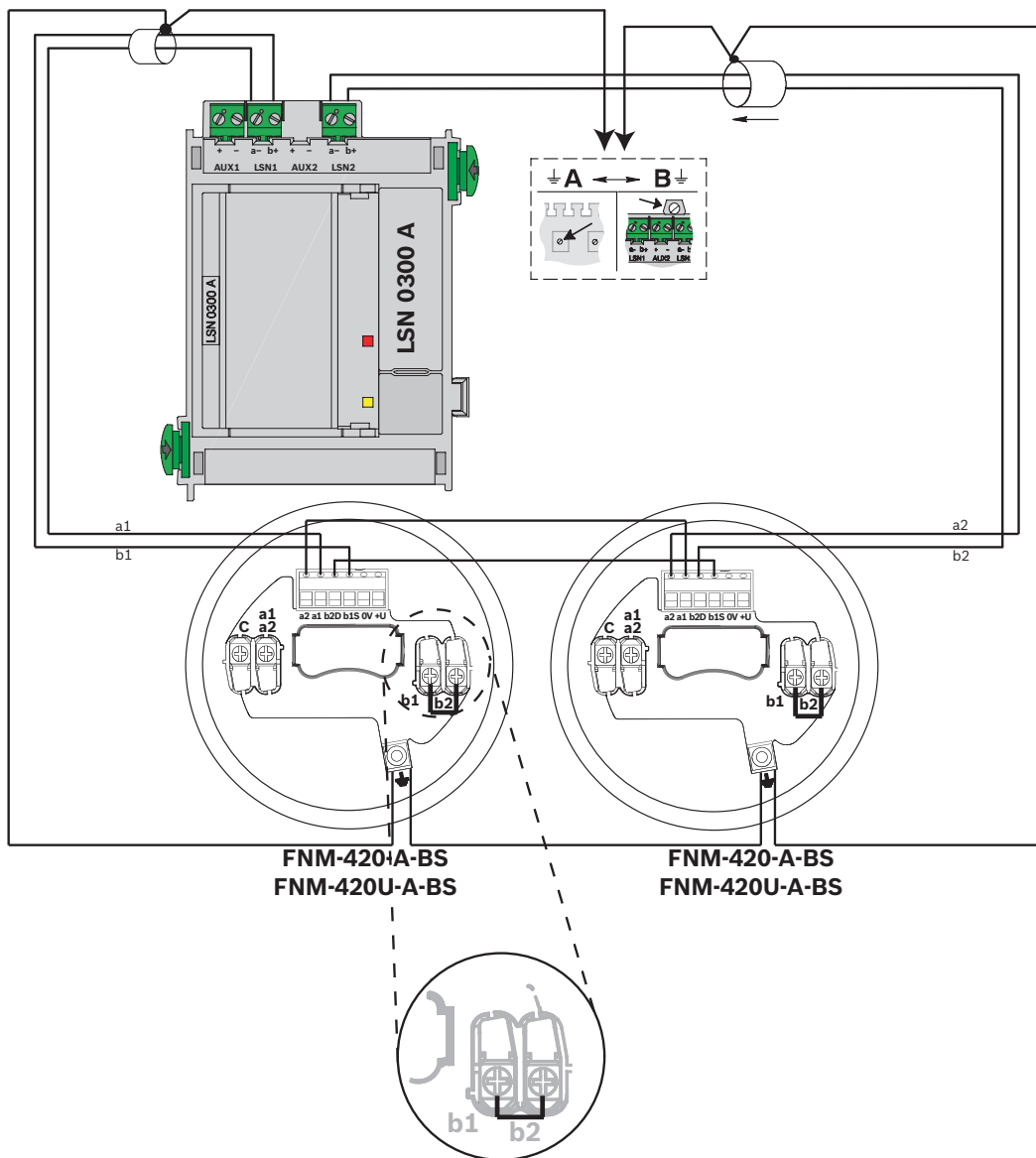


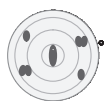


**FNM-420-A-BS**  
**FNM-420U-A-BS**

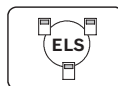


**VdS 2489**

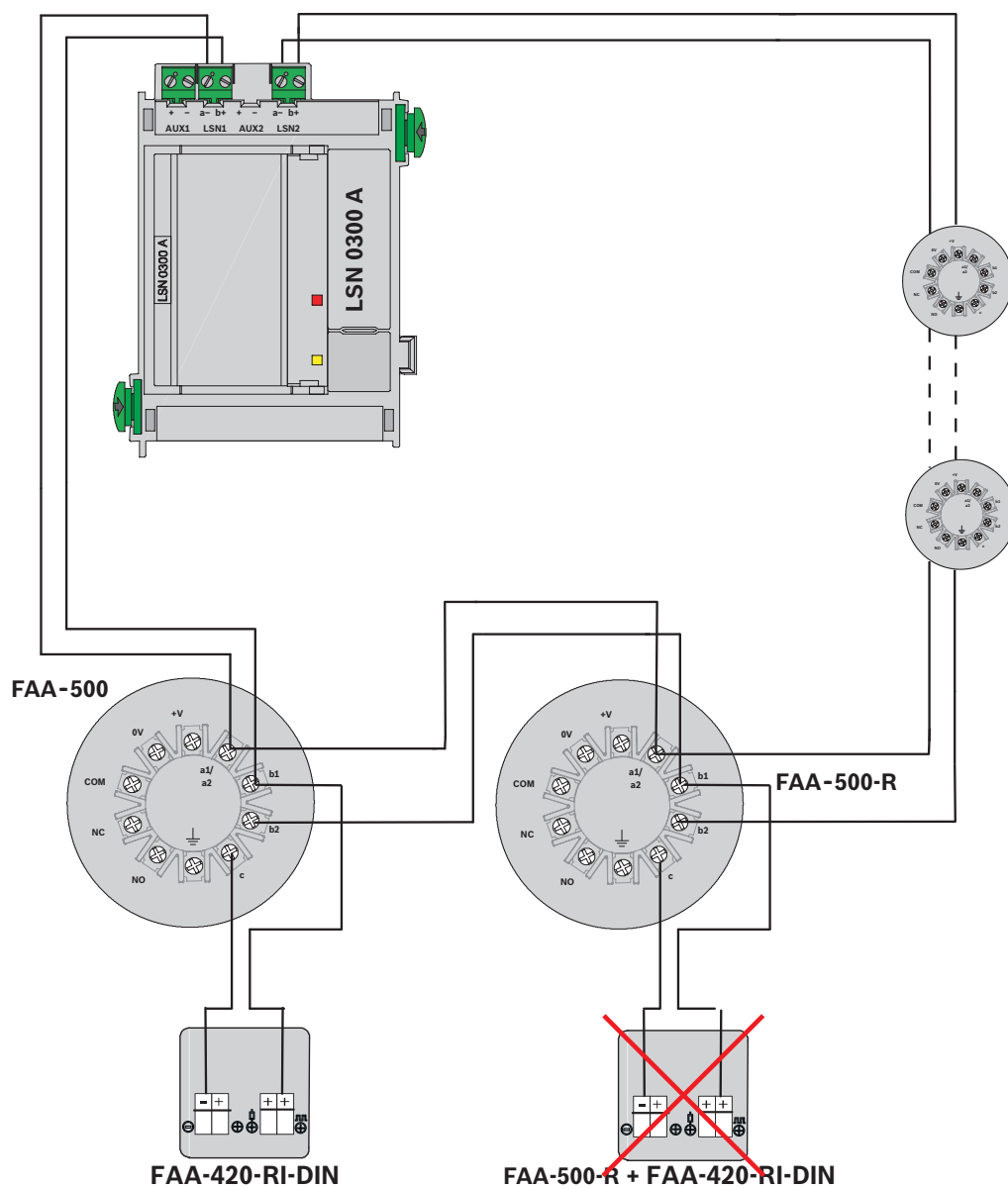


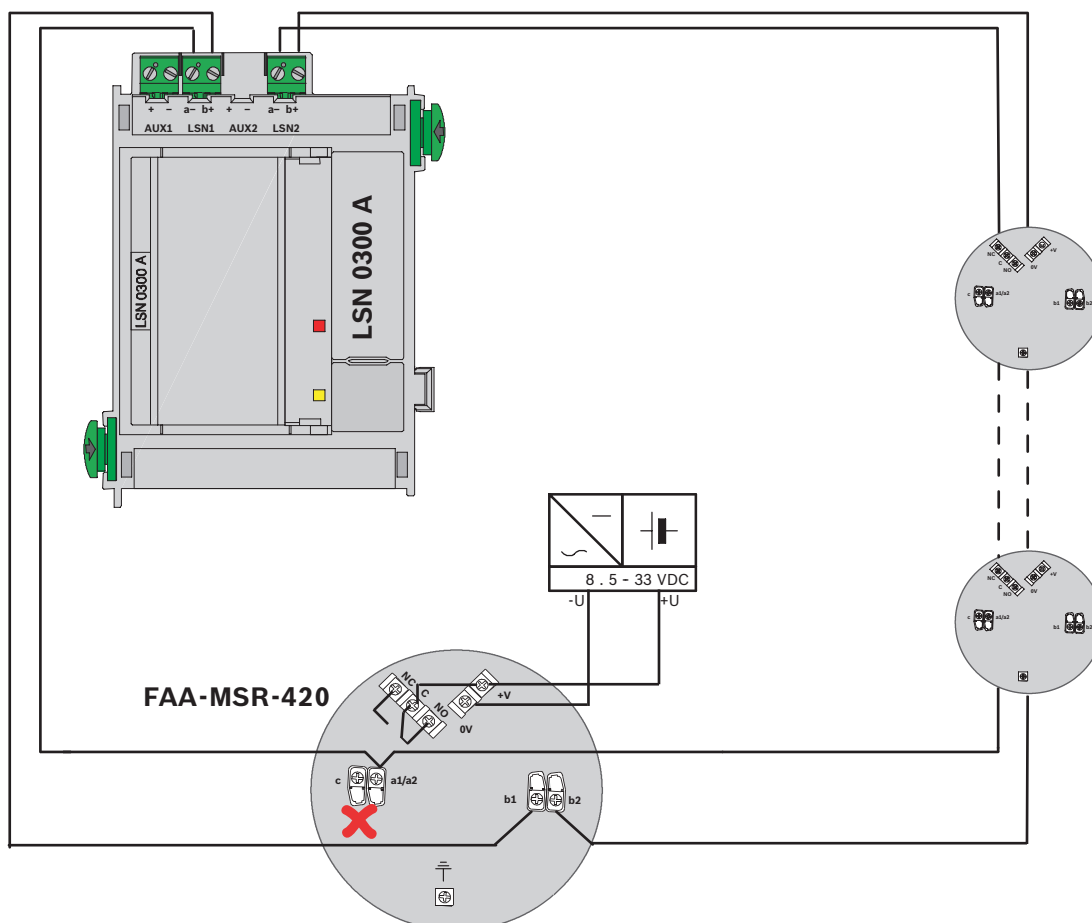
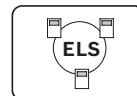
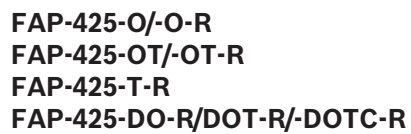


FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P



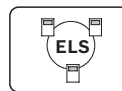
VdS 2489



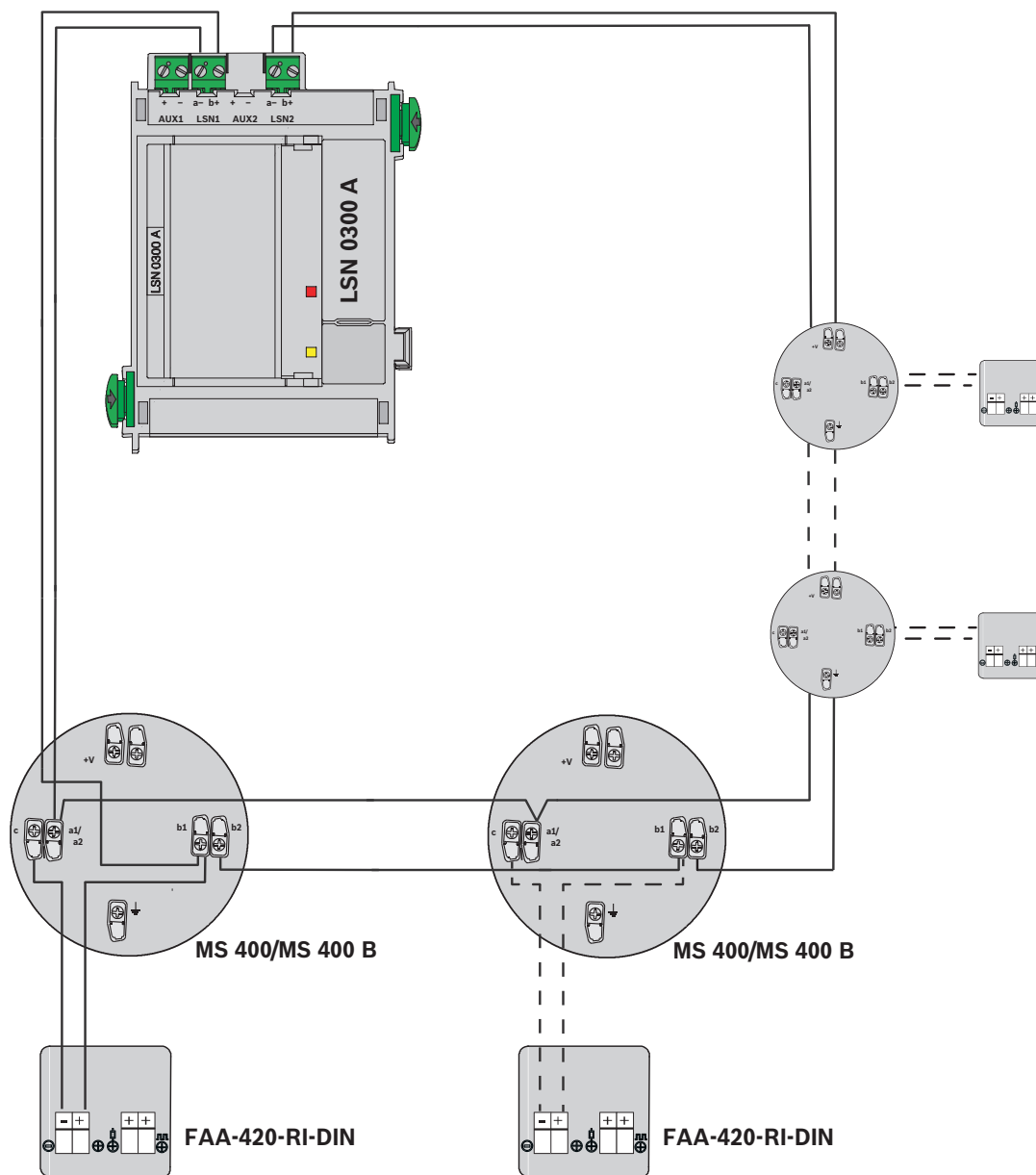


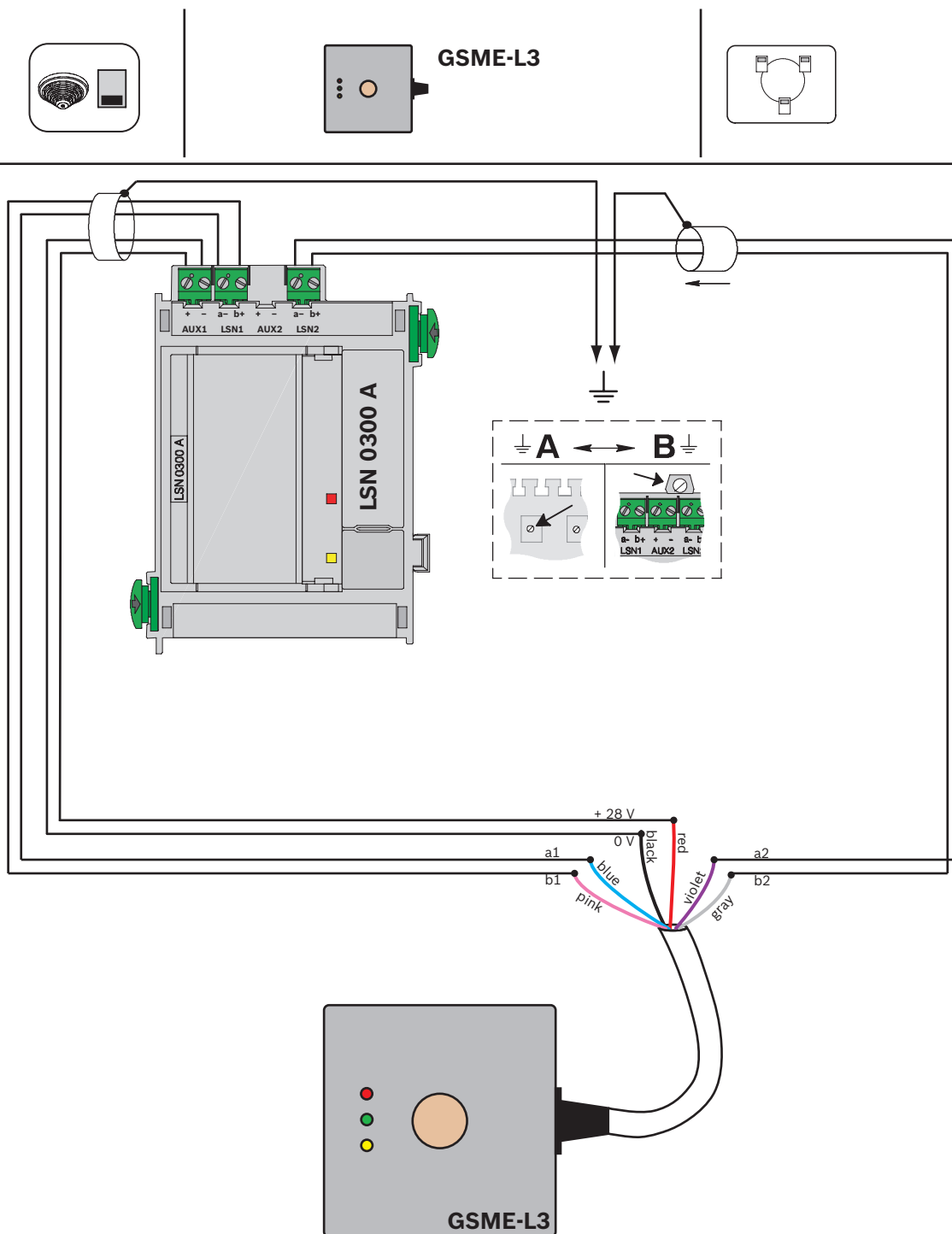


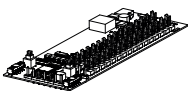
FAP-425-O/-O-R/-OT/-OT-R/-T-R  
 FAP-425-DO-R/DOT-R/-DOTC-R  
 FCH-320-T320/-T320-R470/-T320-FSA  
 FCP-O320/-O320-R470  
 FCP-OC320/-OC320-R470  
 FCP-OT320/-OT320-R470



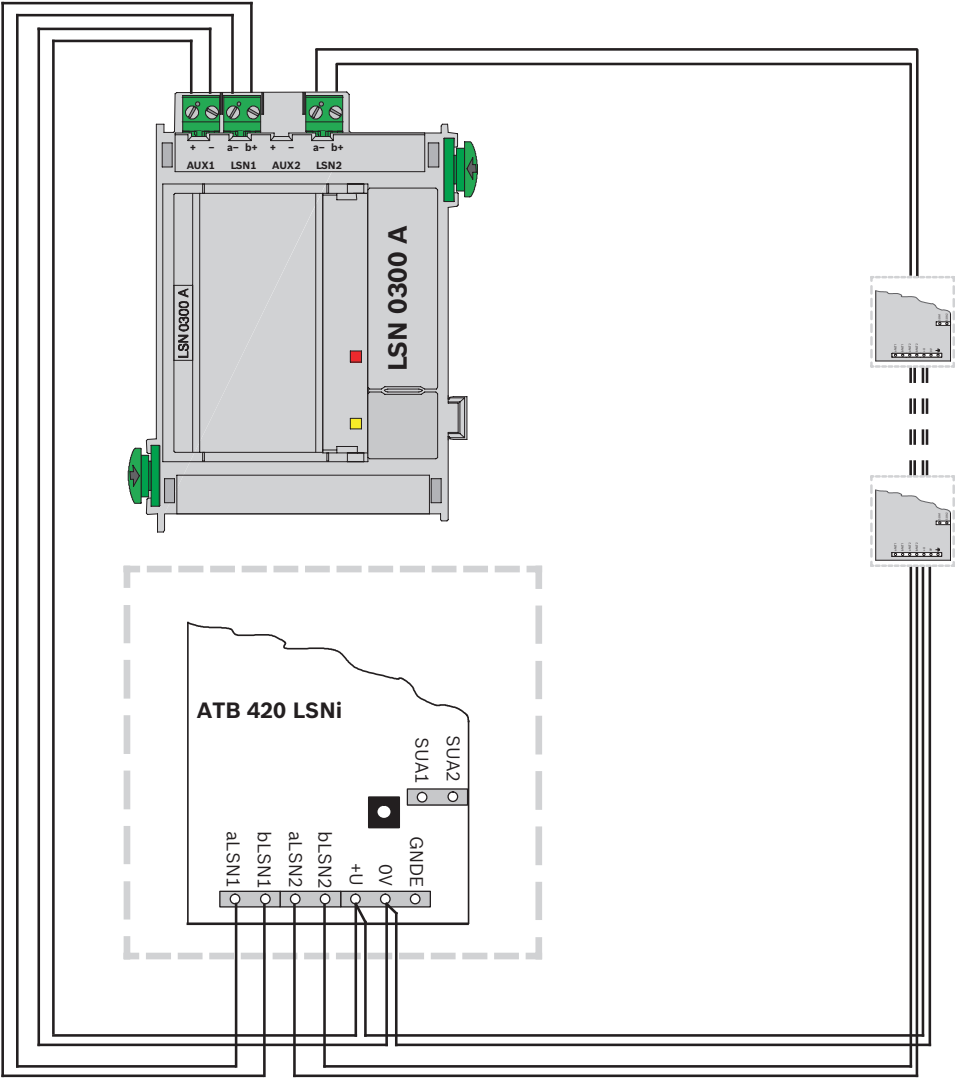
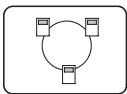
VdS 2489





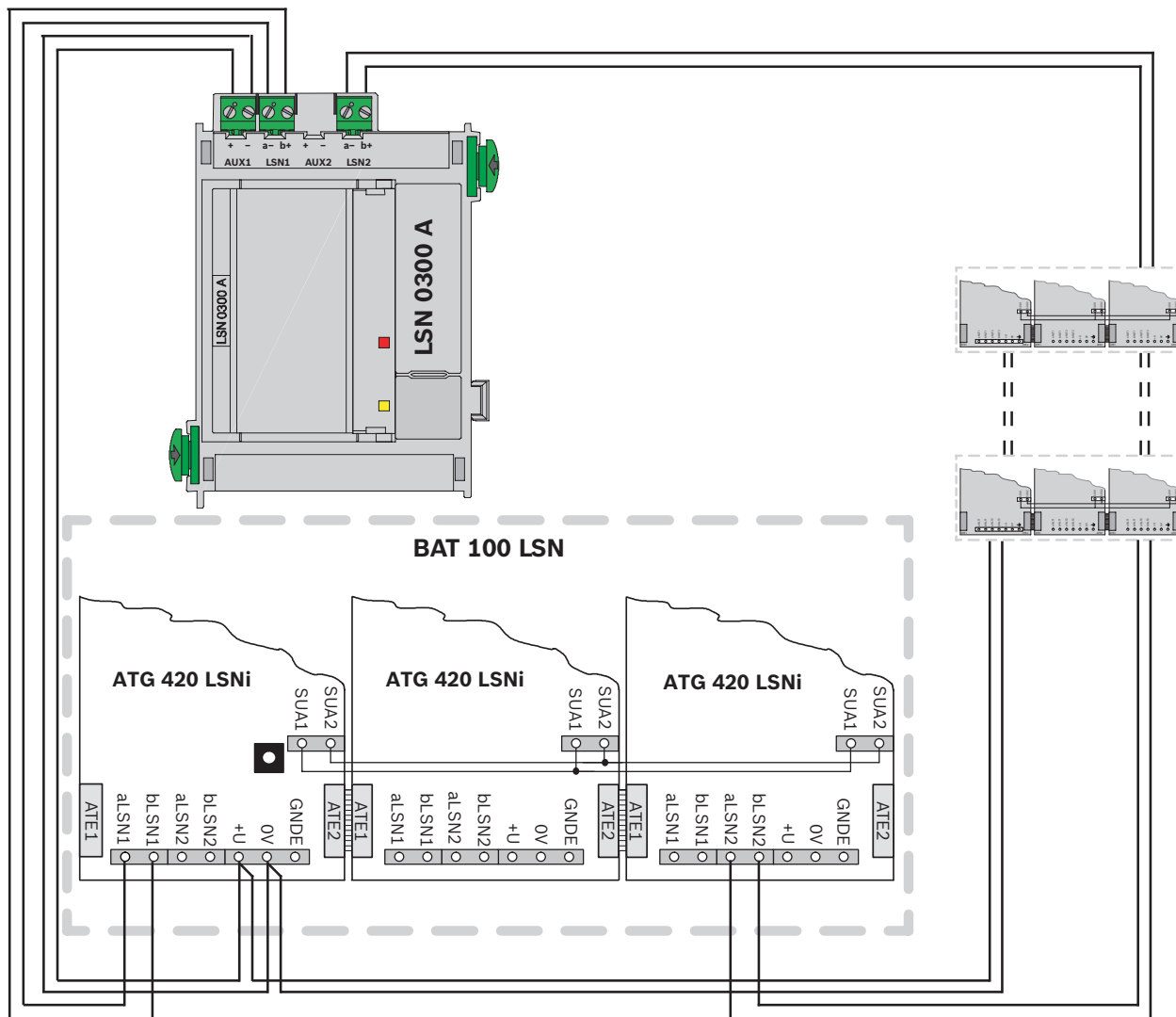
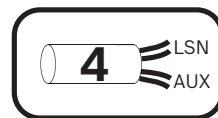
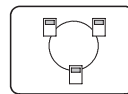


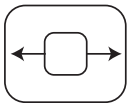
ATB 420 LSNi



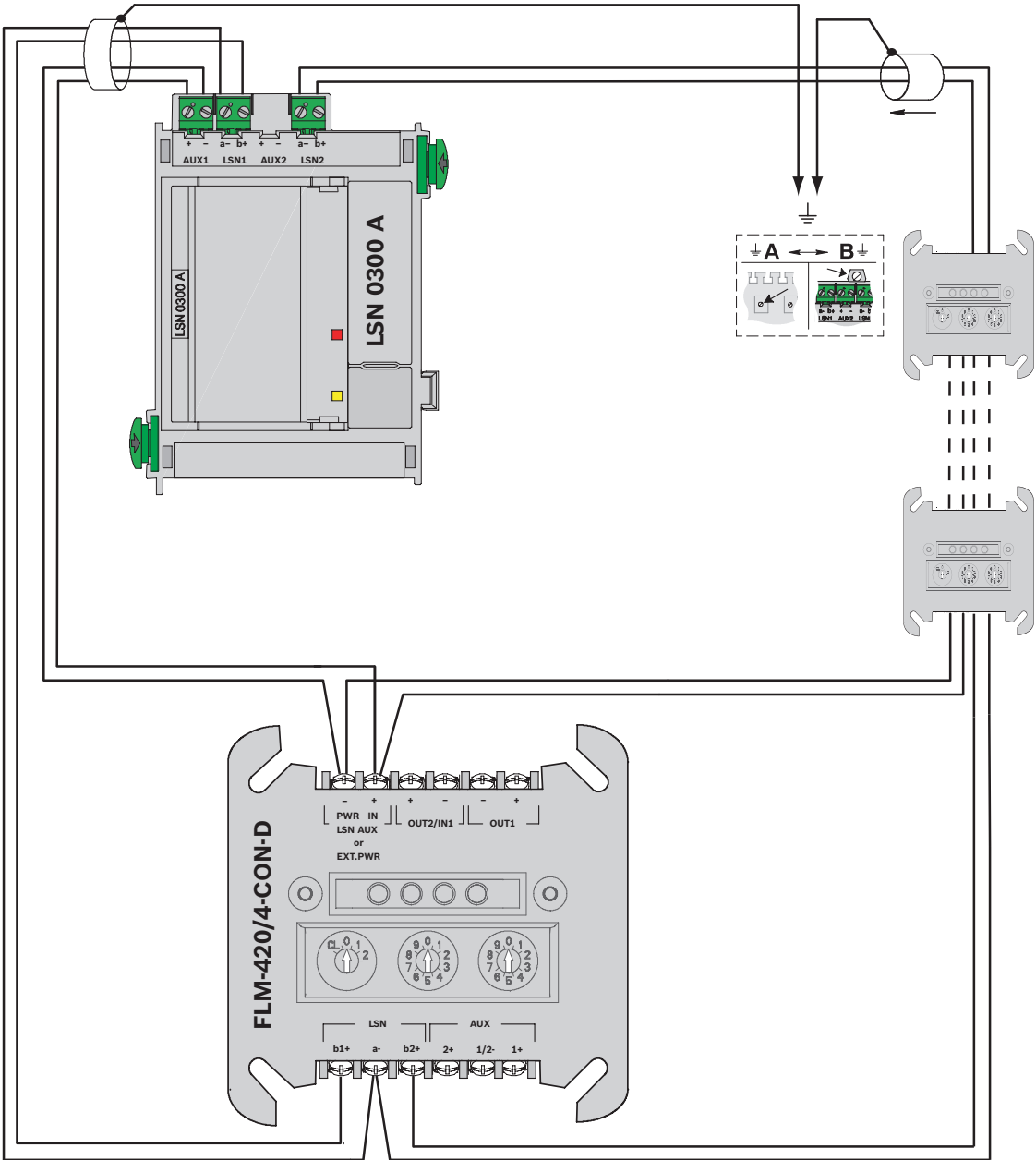
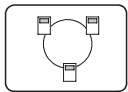


**BAT 100 LSN**  
**ATG 420 LSNi**

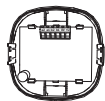




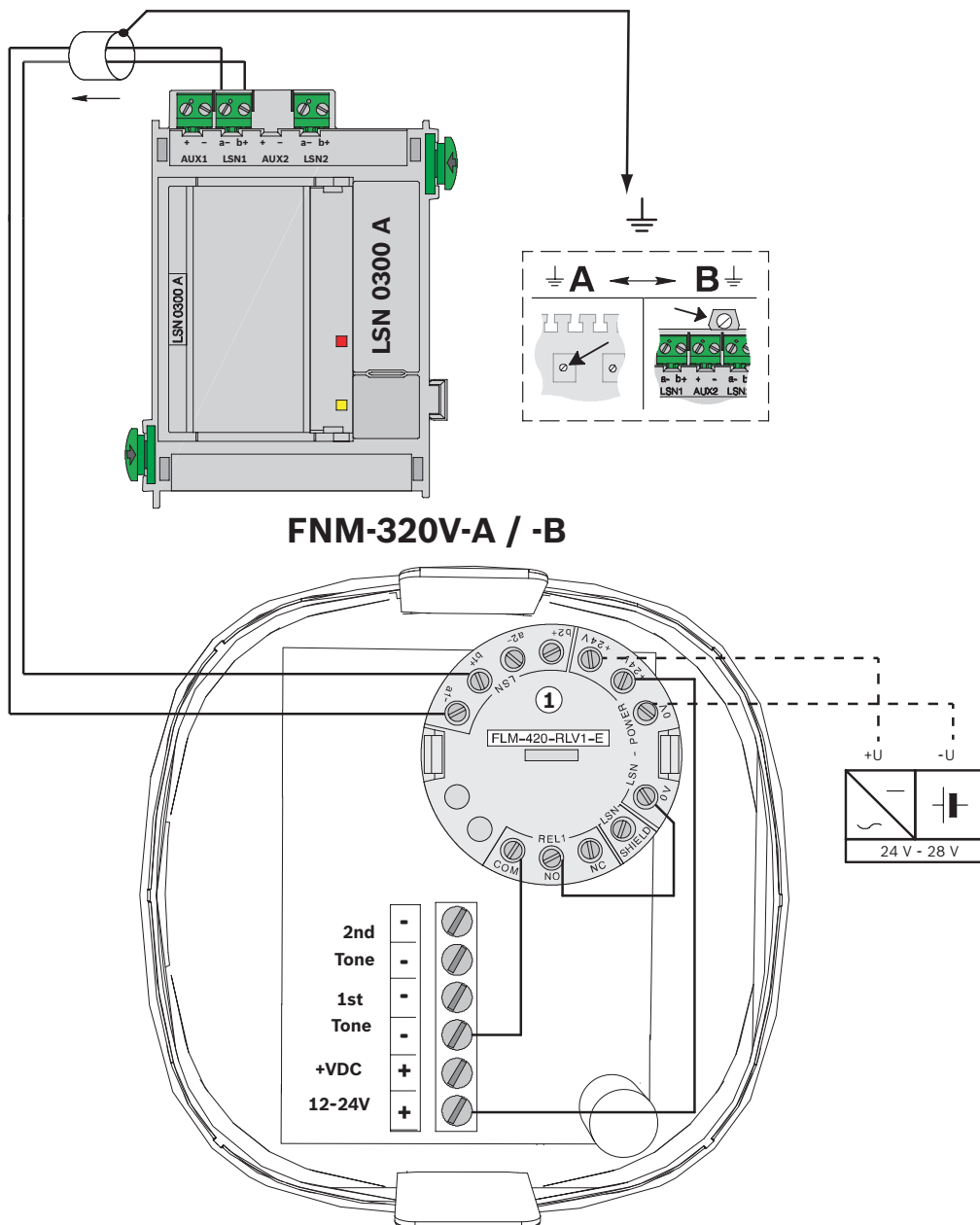
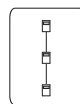
FLM-420/  
4-CON-D

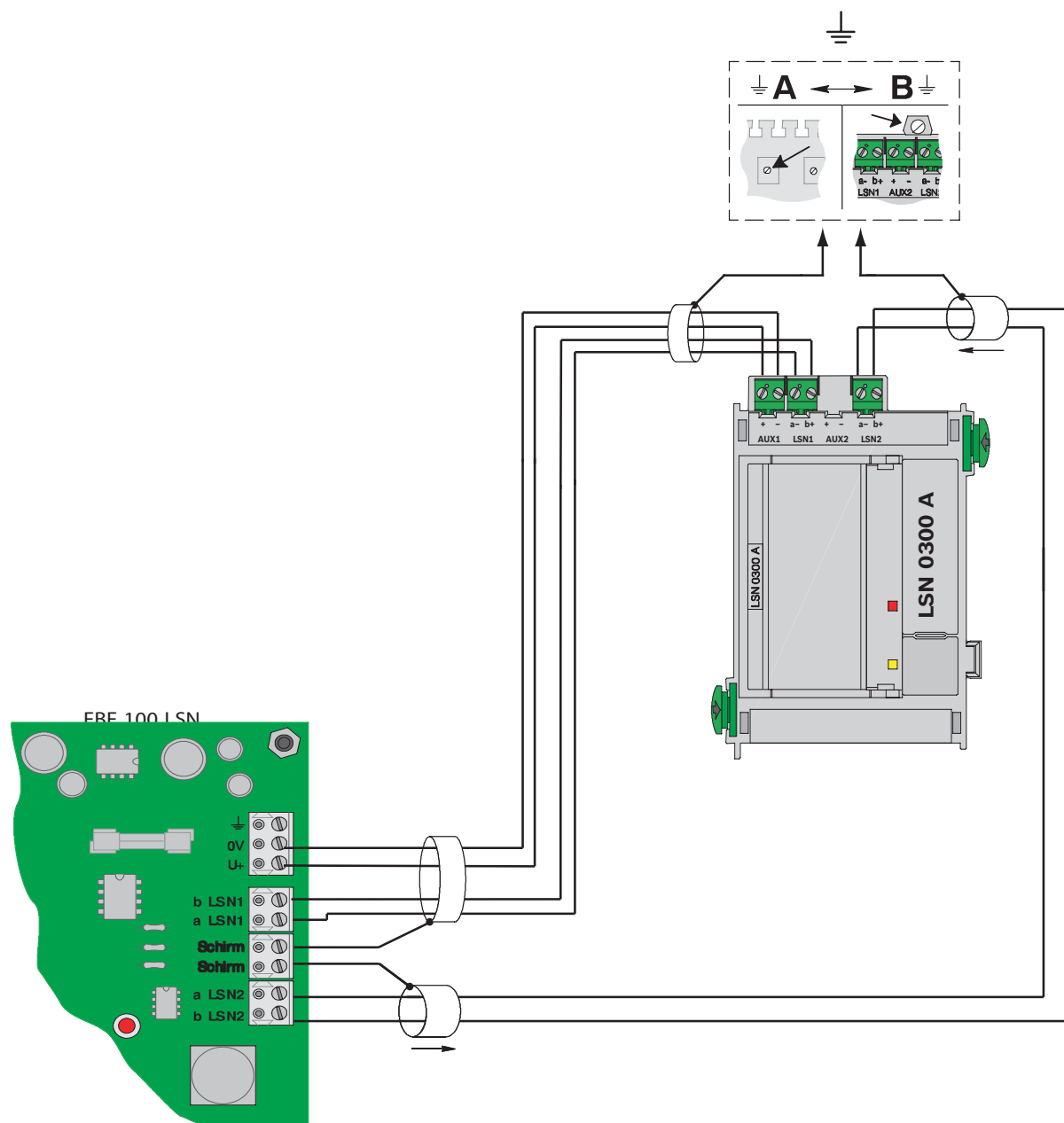
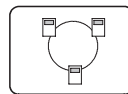


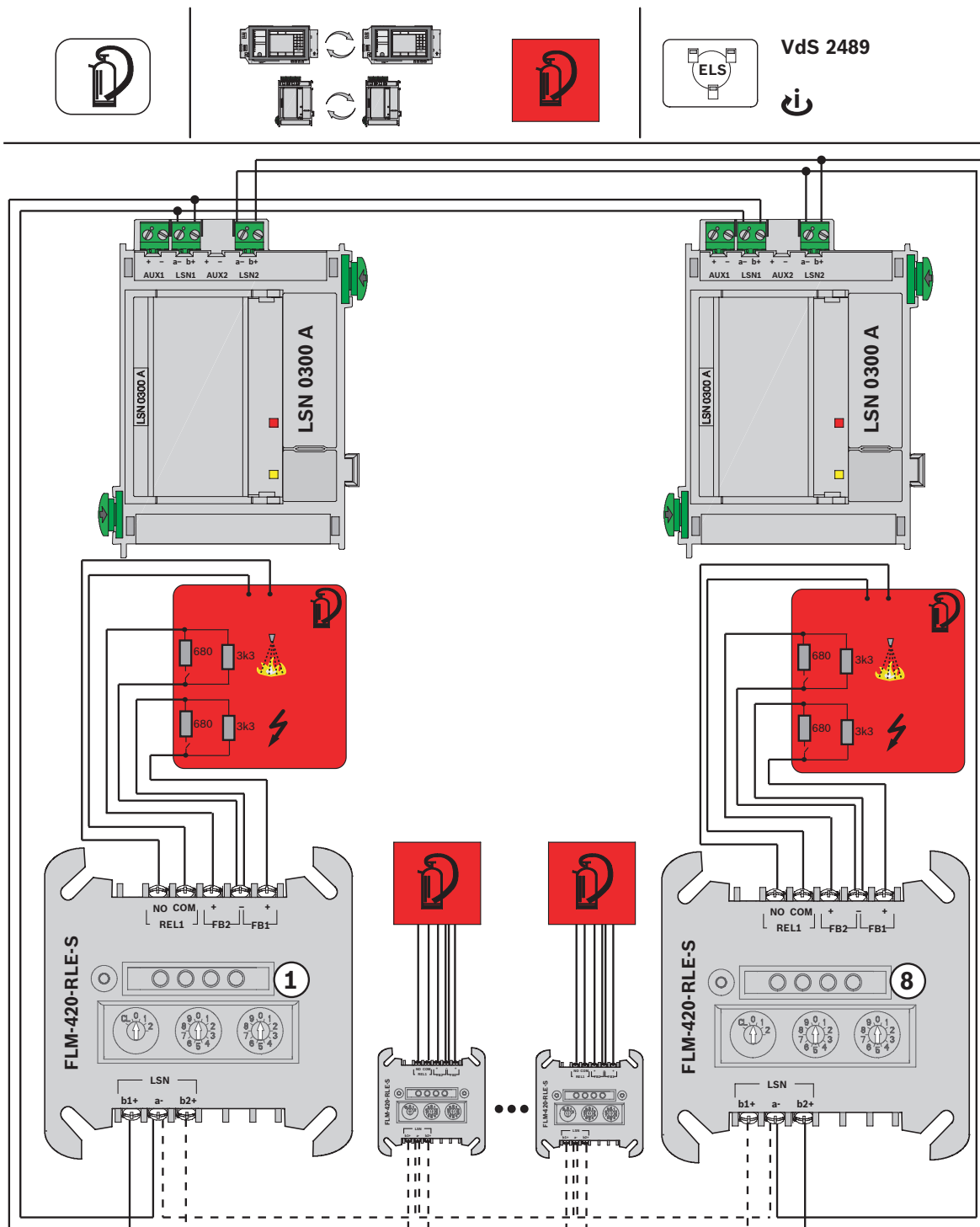


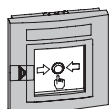
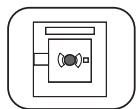


**FNM-320V-A / -B**

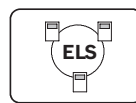



**FBF 100 LSN**


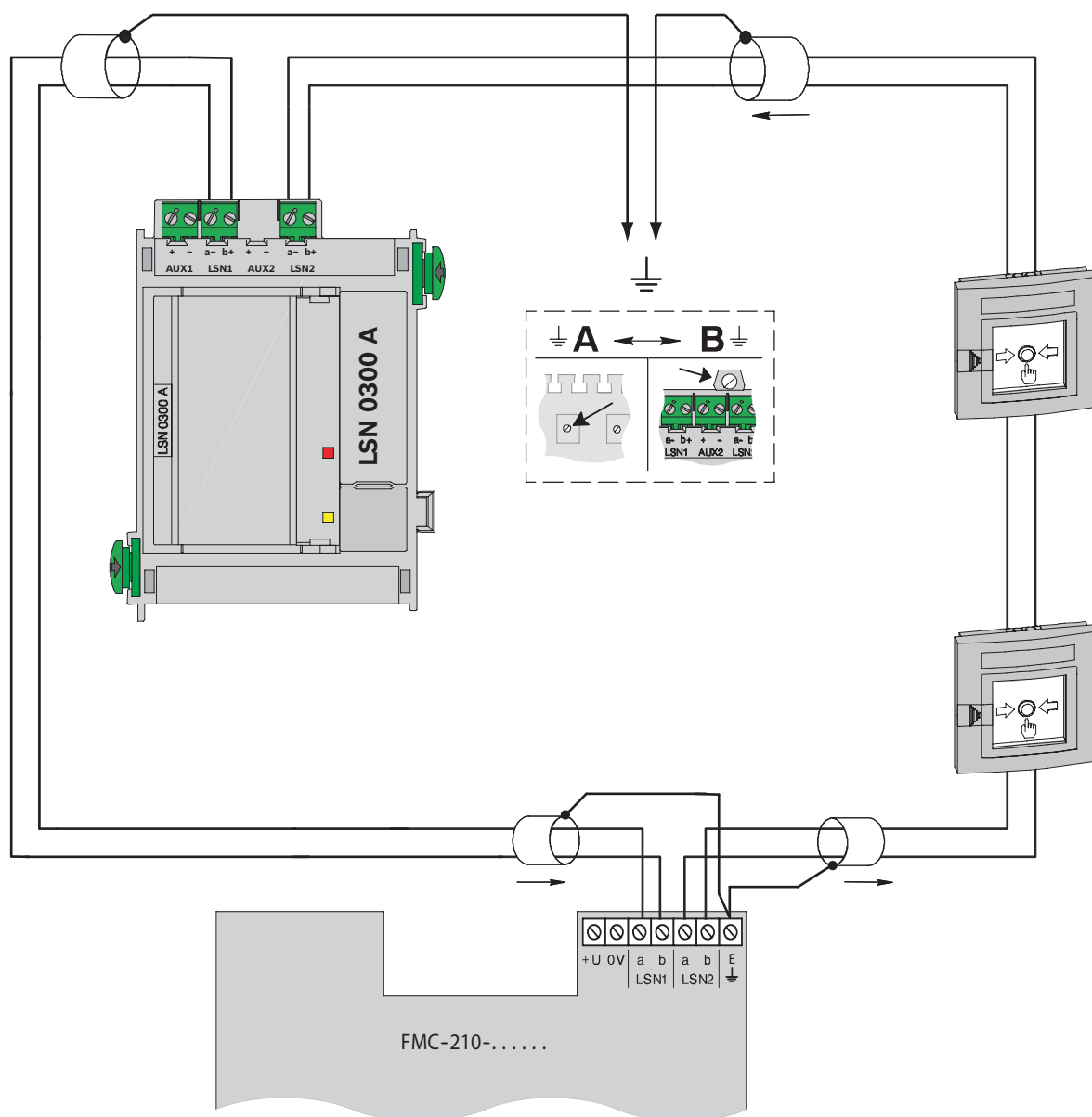


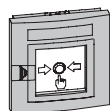
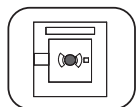


FMC-210-...

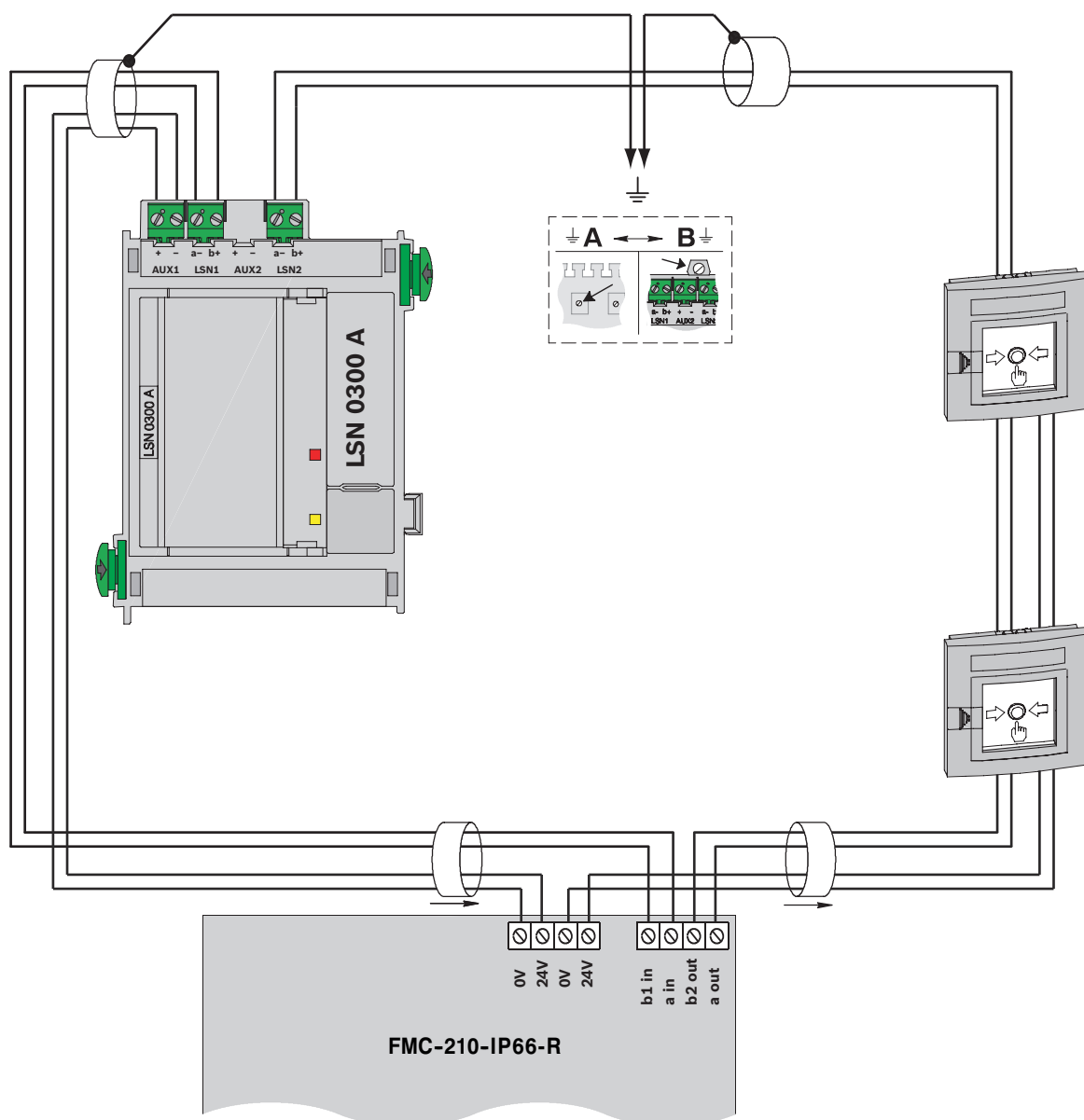
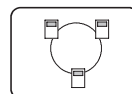


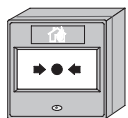
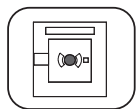
VdS 2489



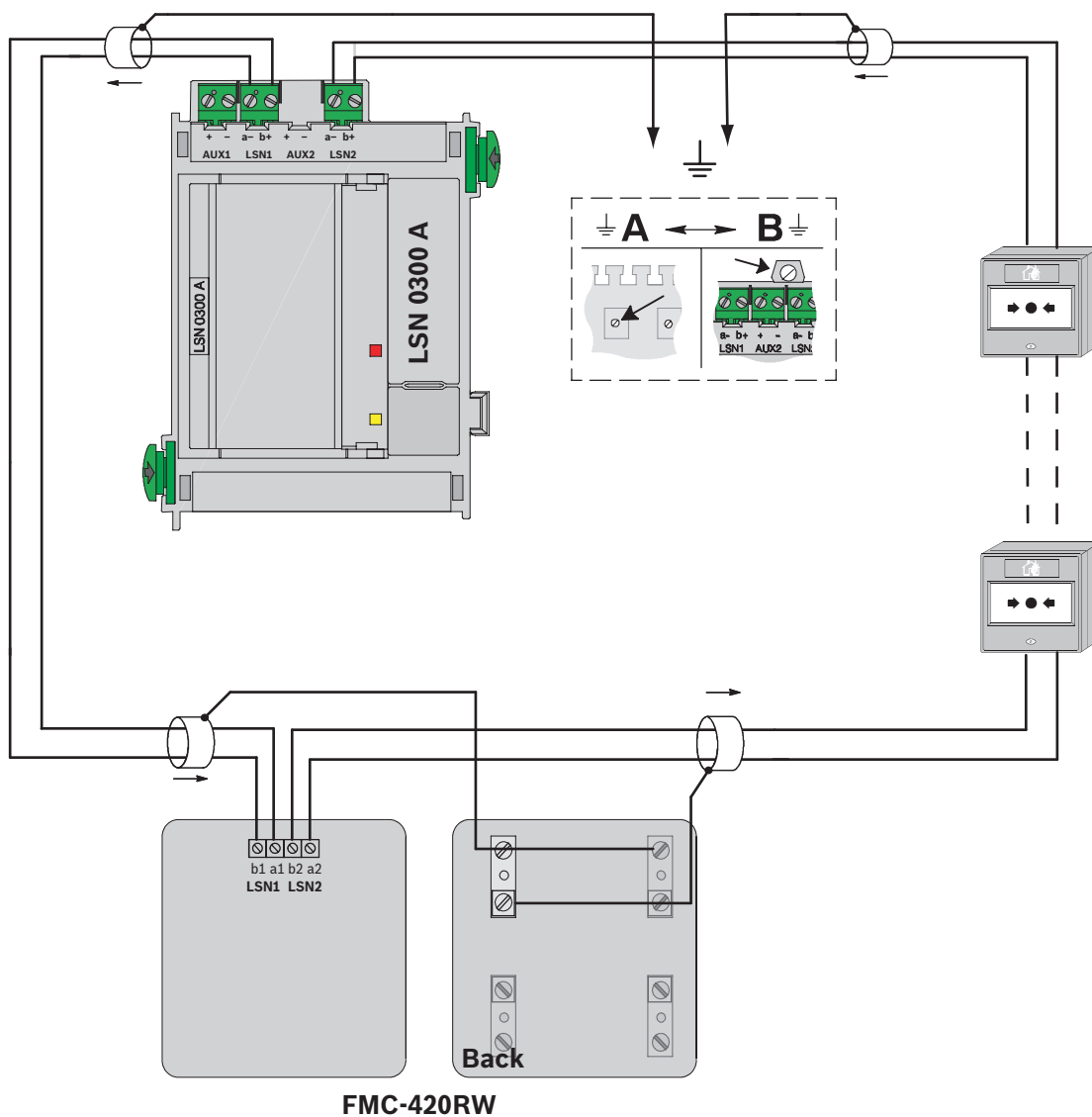
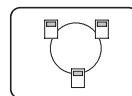


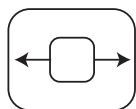
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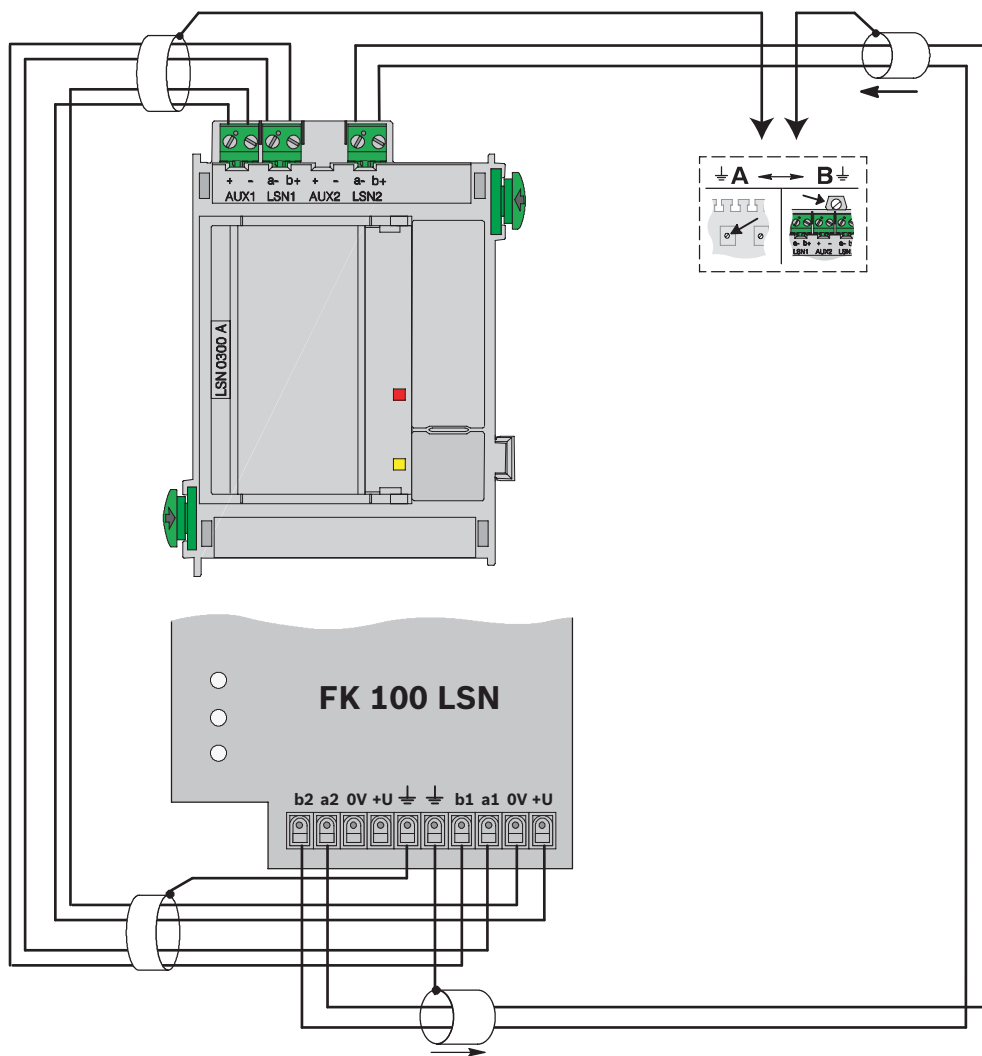
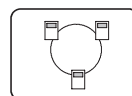


FMC-420RW-HSGRD  
FMC-420RW-HSRRD  
FMC-420RW-GFGRD  
FMC-420RW-GFRRD  
FMC-420RW-GSGRD  
FMC-420RW-GSRRD

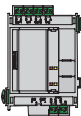
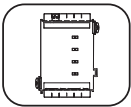




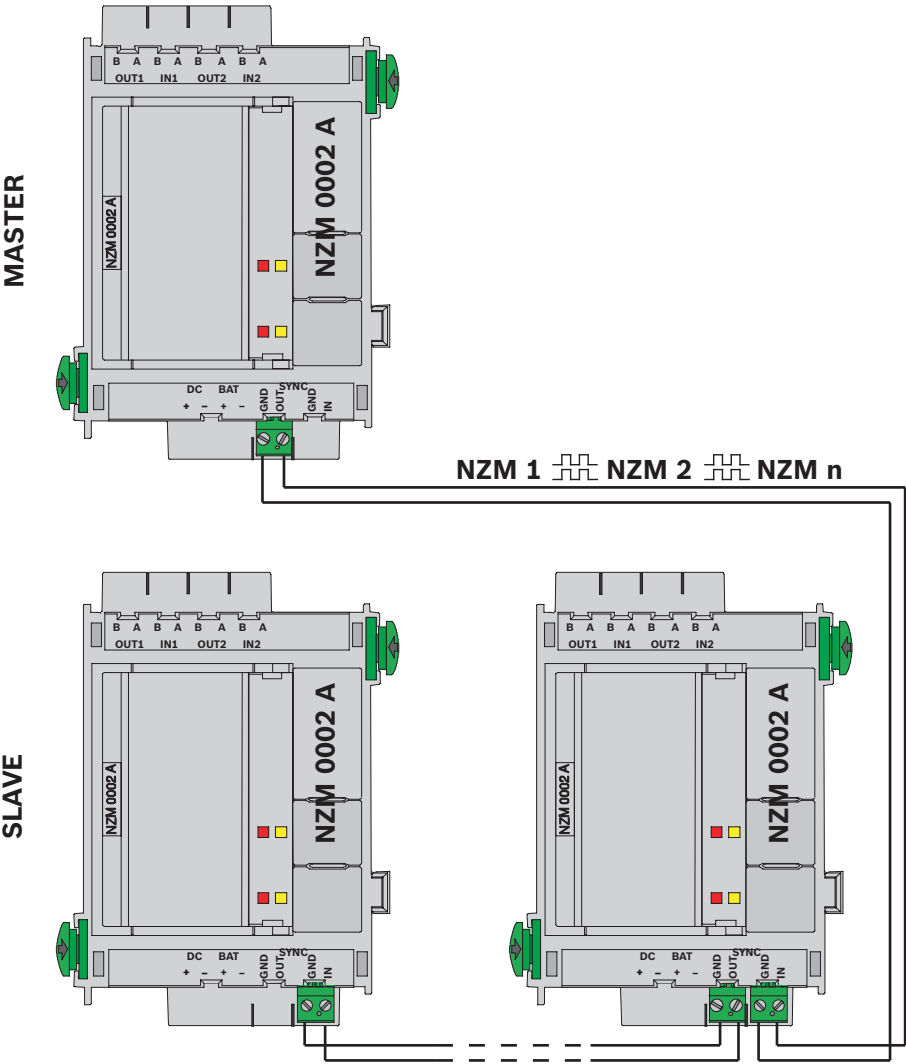
**FK 100 LSN**



3.3.5 NZM 0002 A



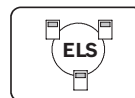
NZM 0002 A



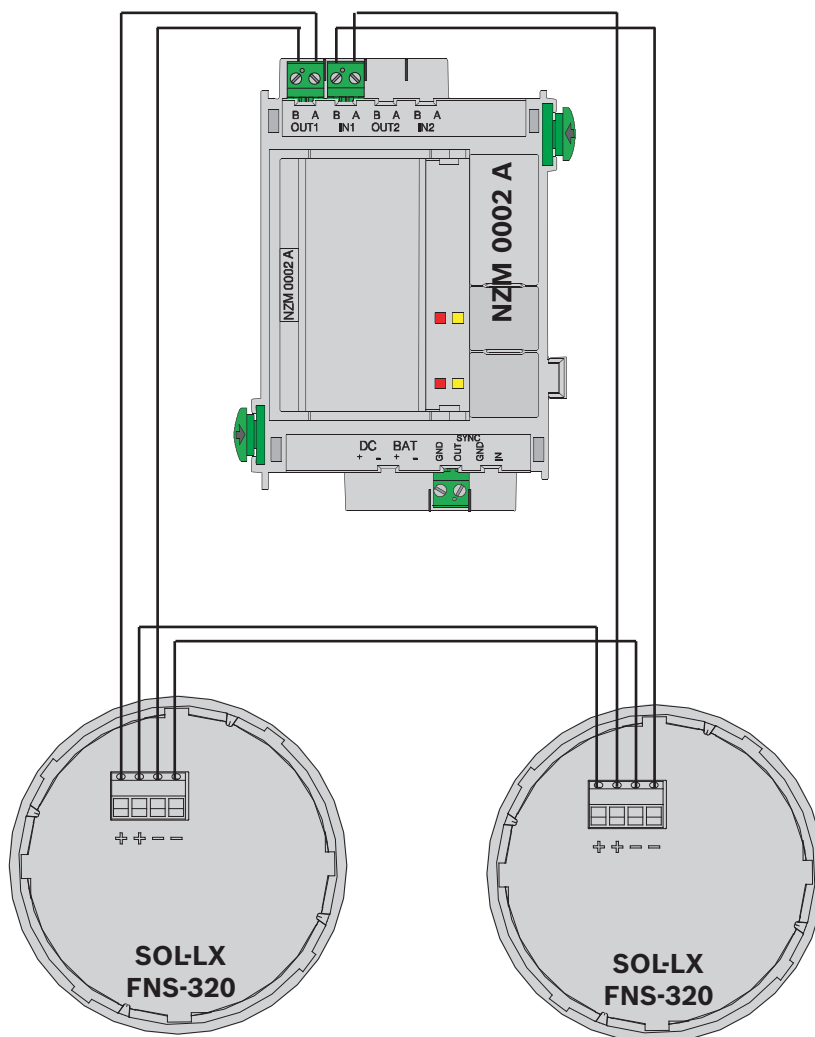


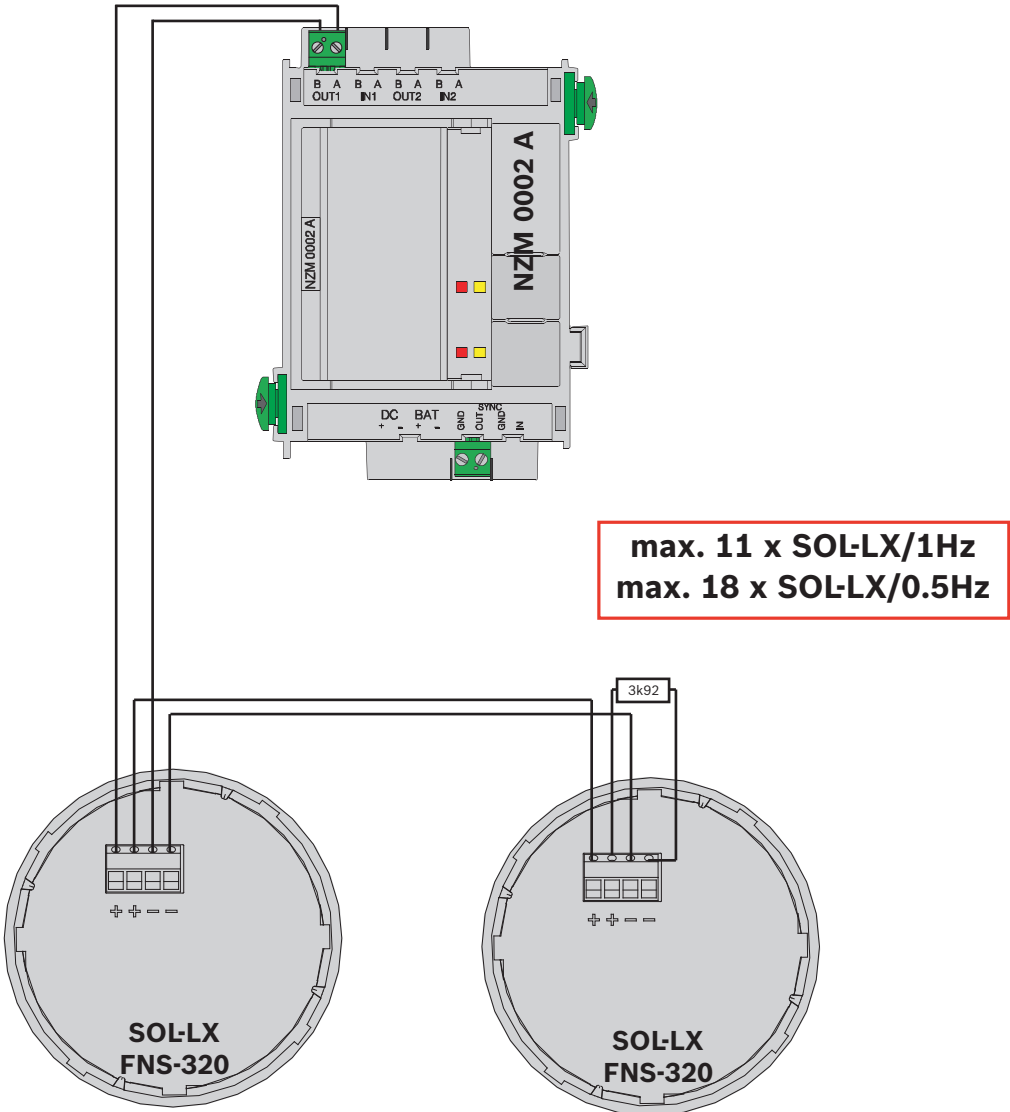
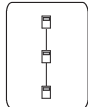


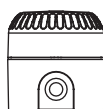
**SOL-LX  
FNS-320**



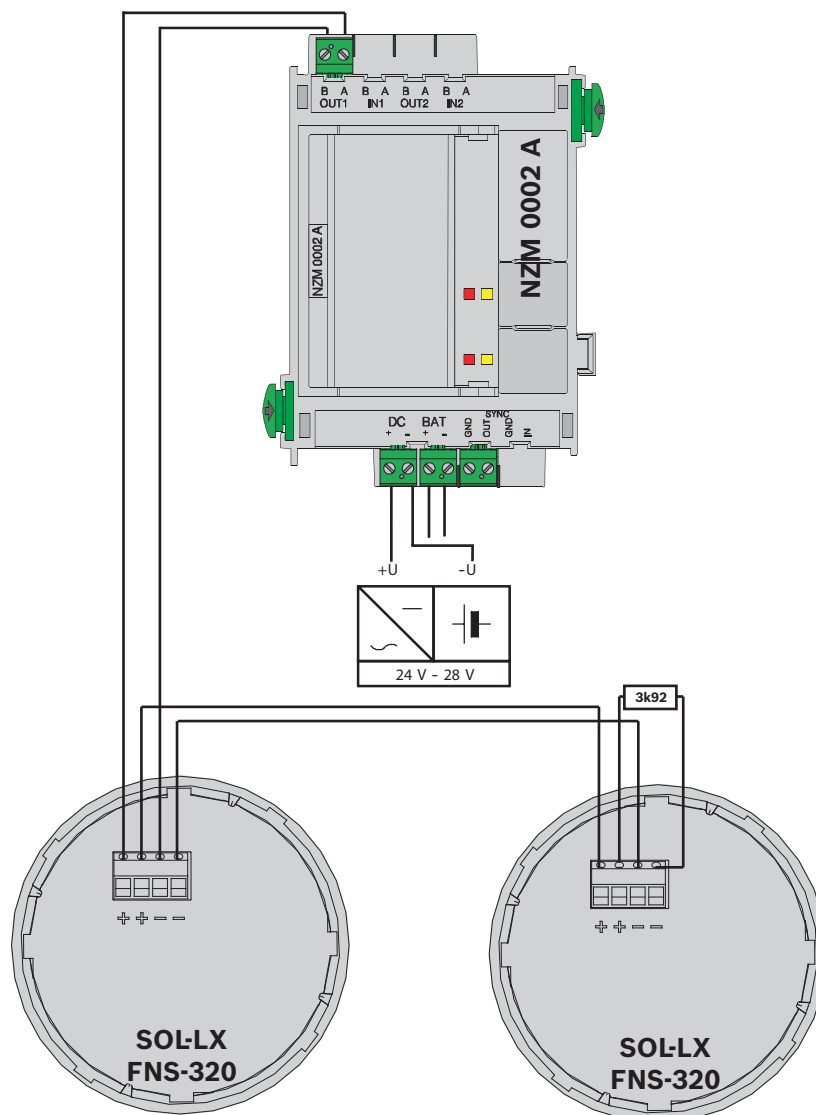
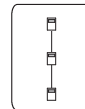
**VdS 2489**

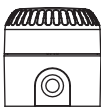




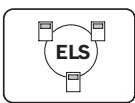


**SOL-LX  
FNS-320**

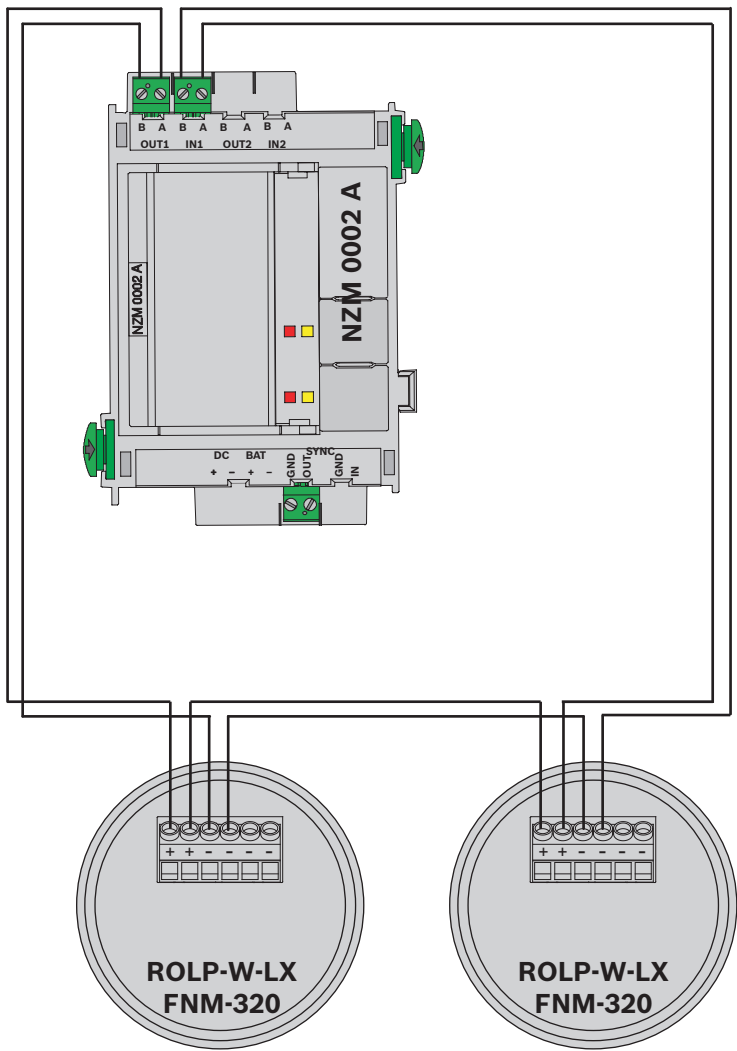




**ROLP-W-LX  
FNM-320**

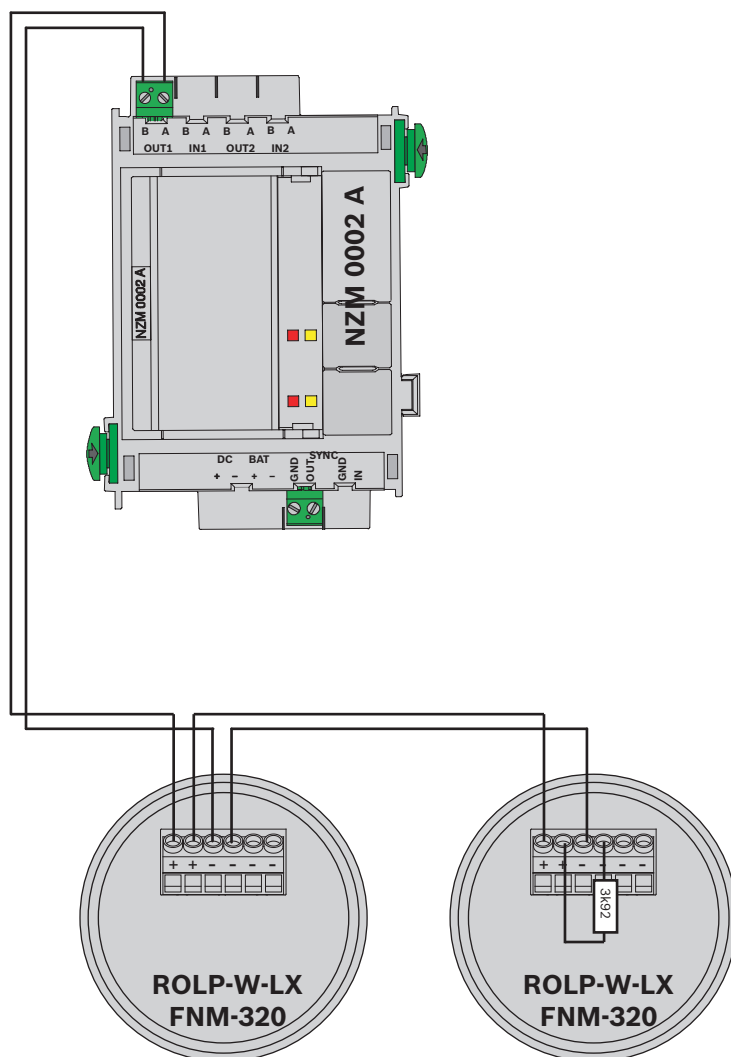
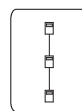


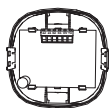
**VdS 2489**



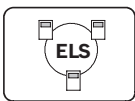


**ROLP-W-LX  
FNM-320**

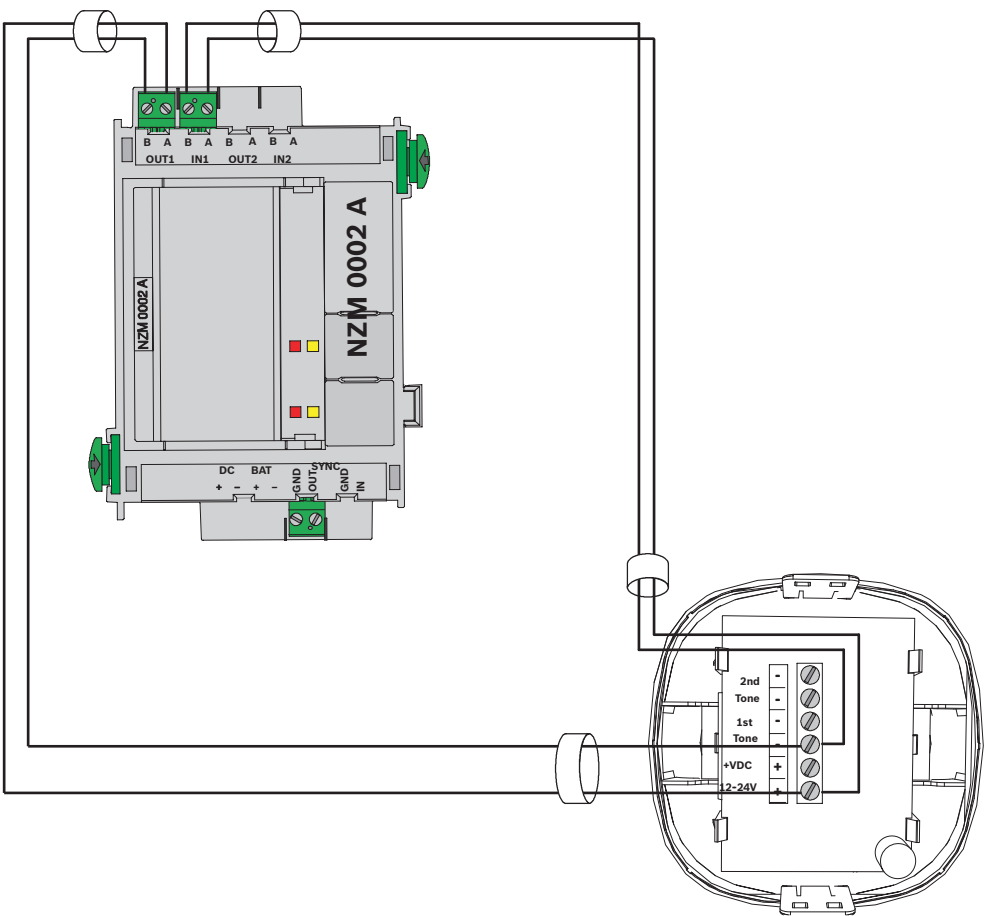


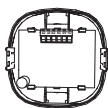


FNM-320V-A / -B

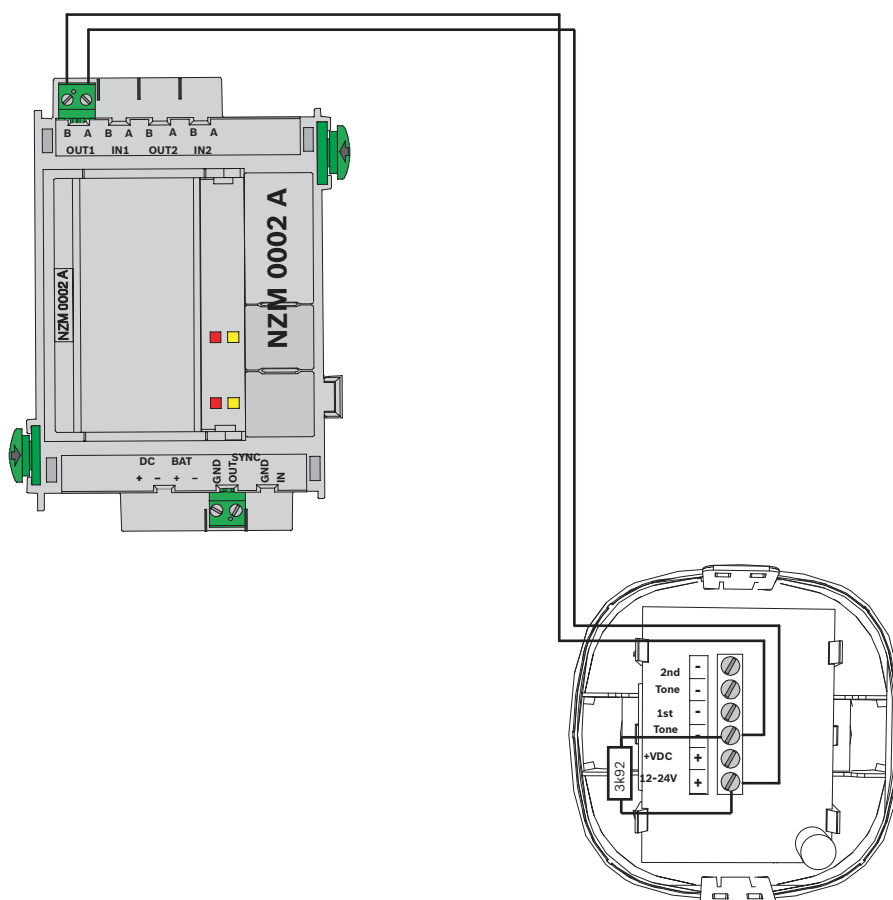
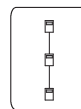


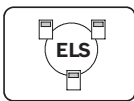
VdS 2489



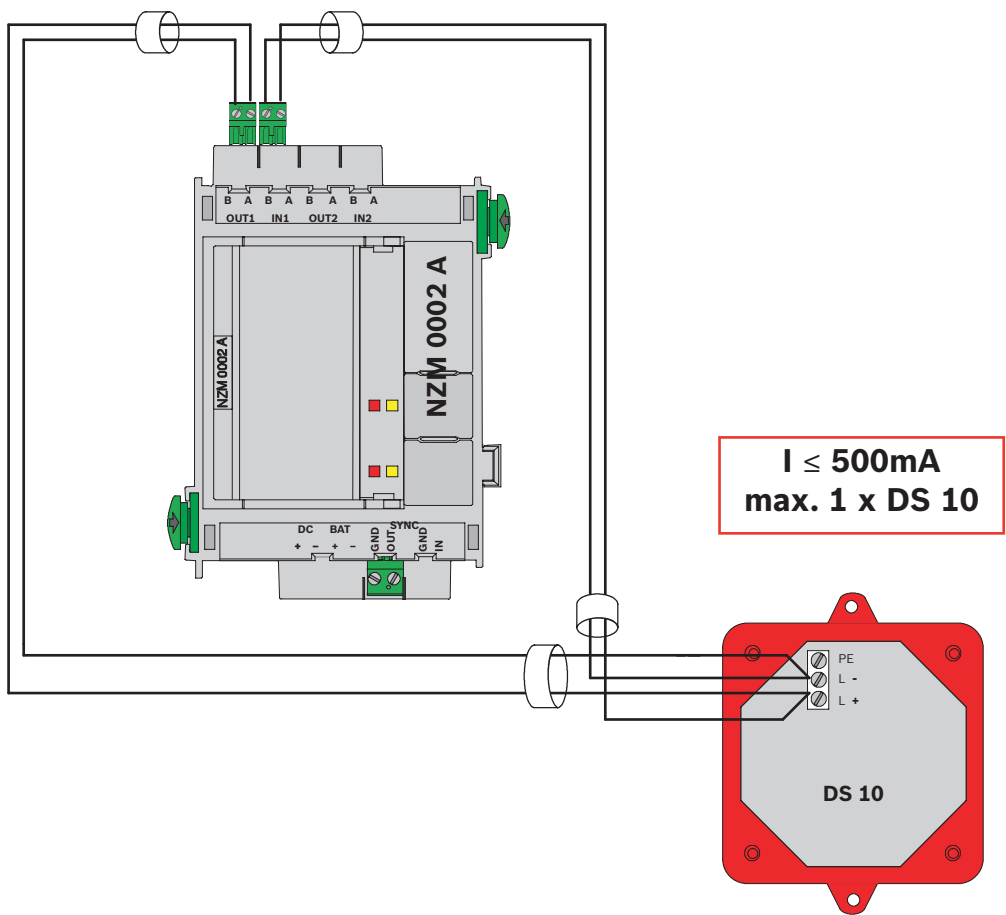


**FNM-320V-A / -B**

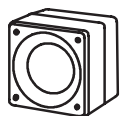




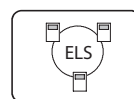
VdS 2489



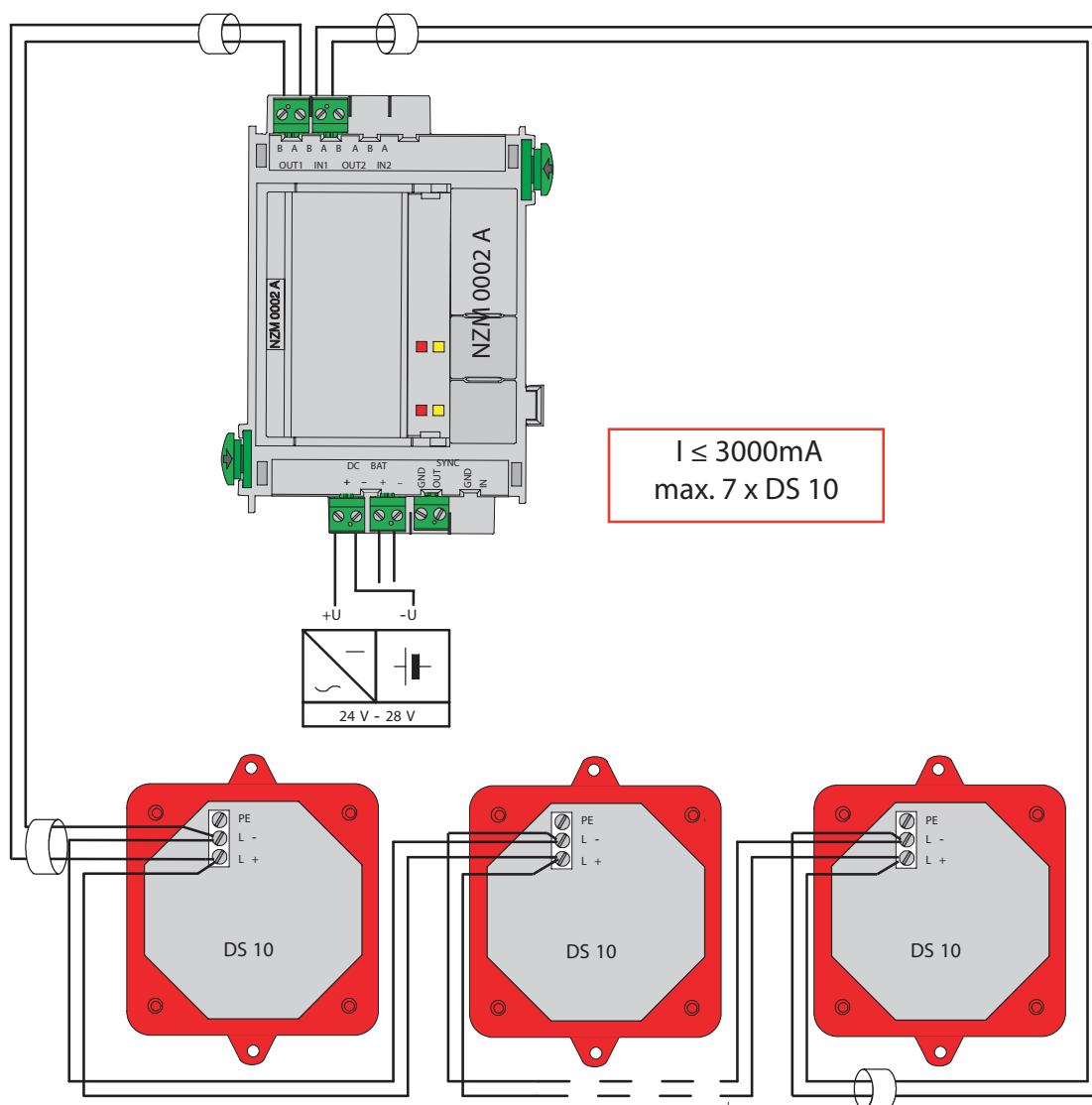


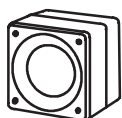


DS 10

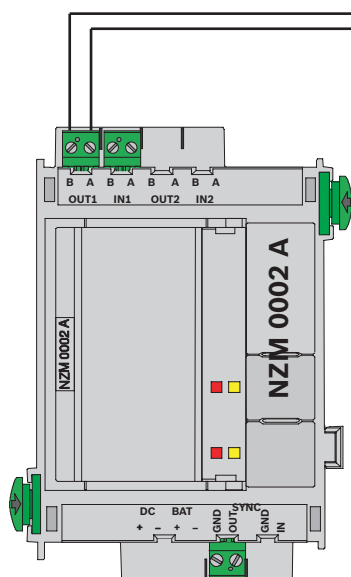
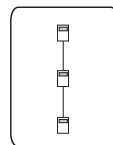


VdS 2489

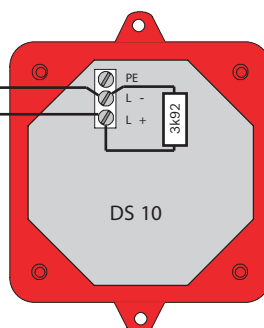


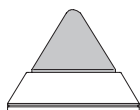


DS 10

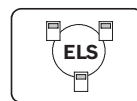


**$I \leq 500\text{mA}$**   
**max. 1 x DS 10**

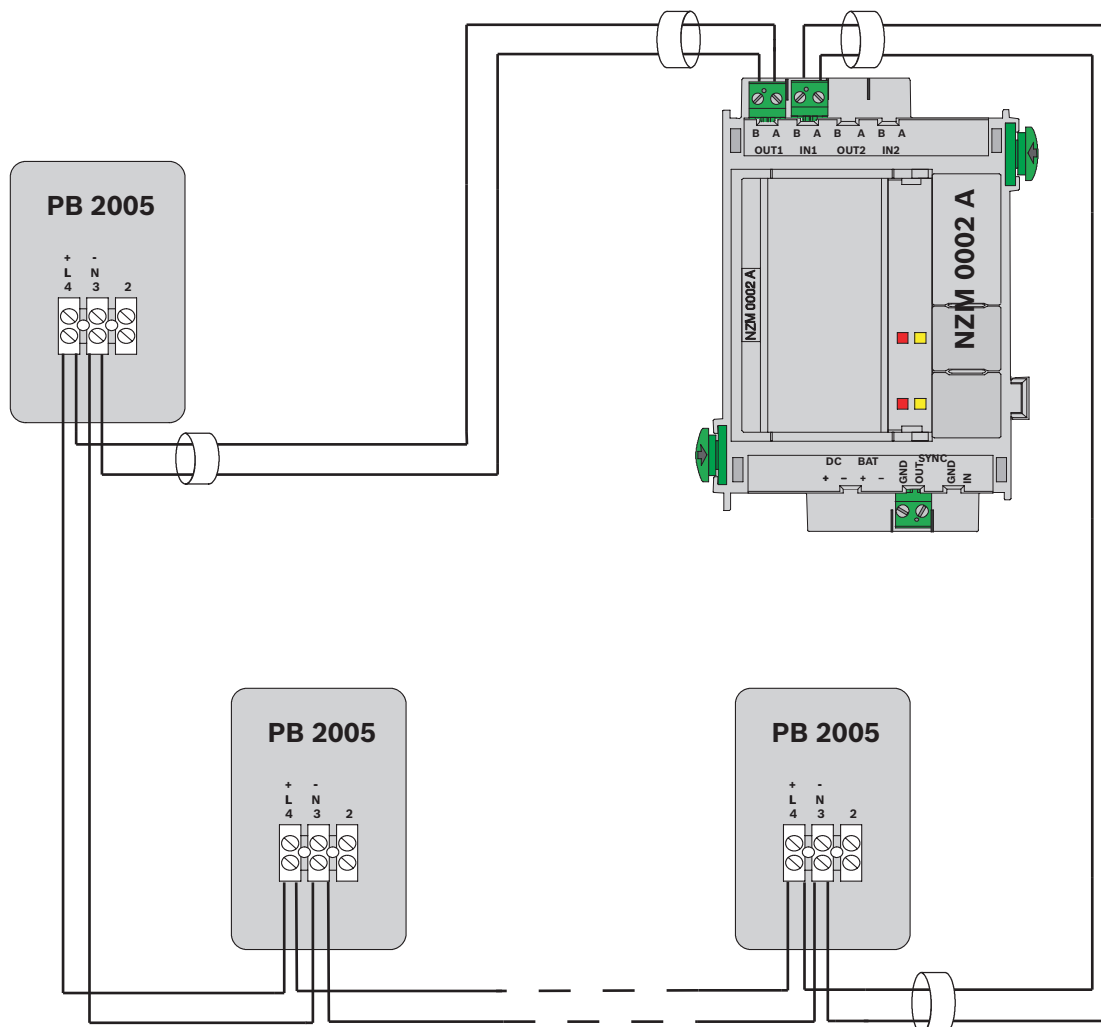




**PB 2005**

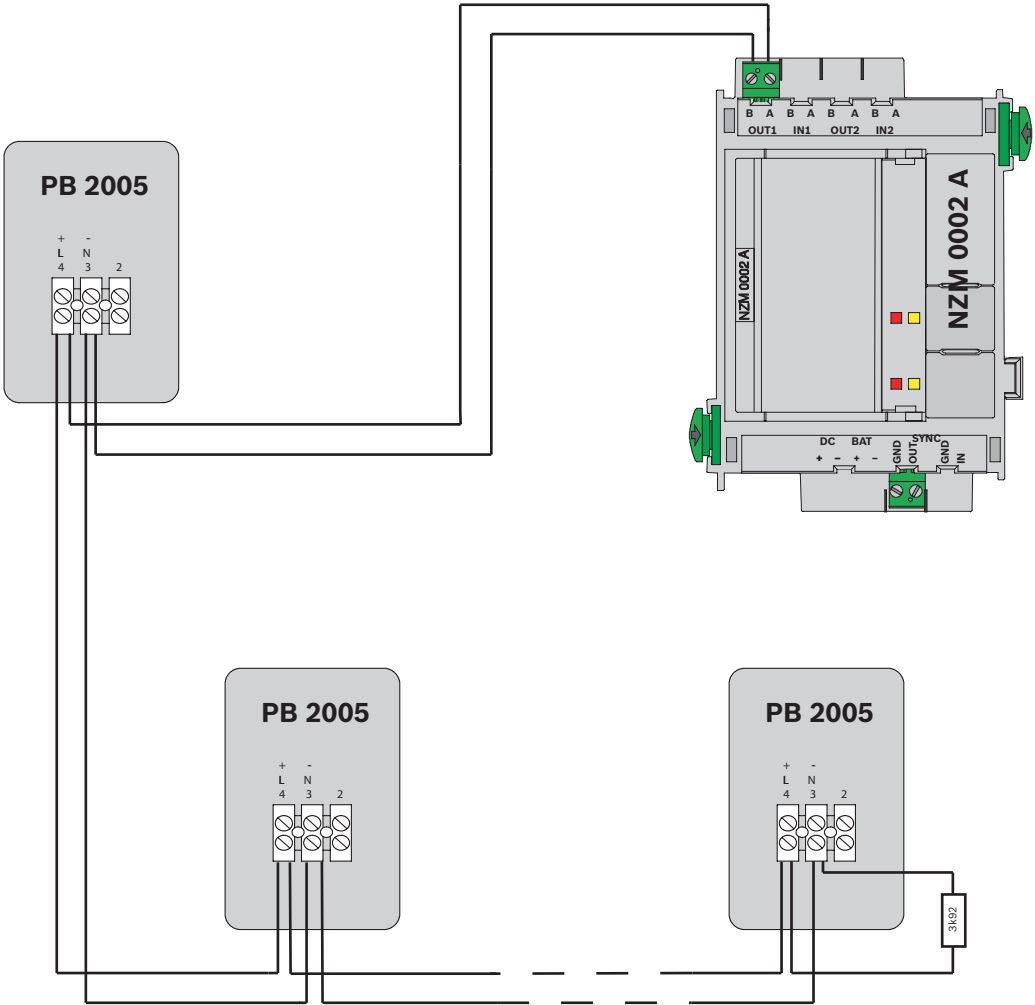
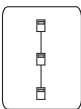


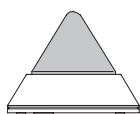
**VdS 2489**



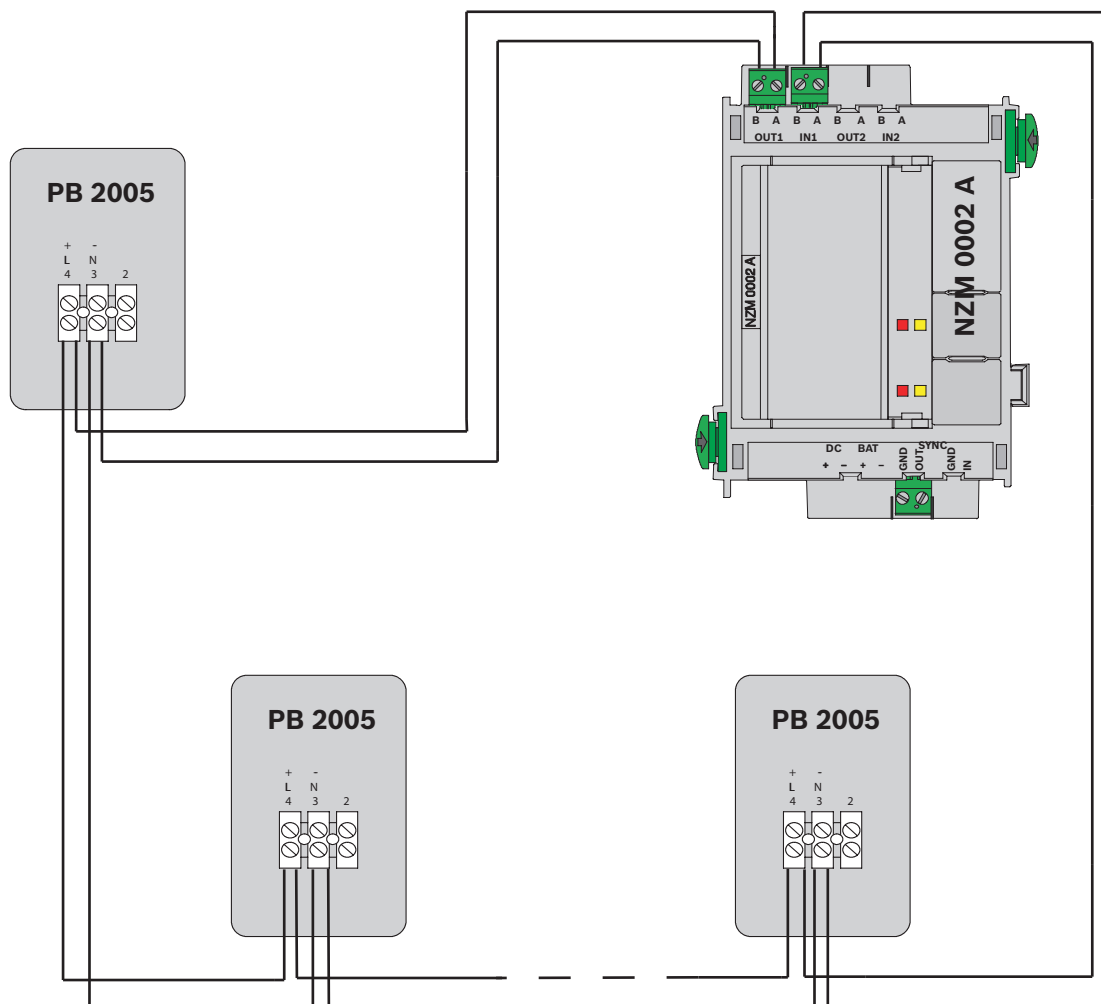
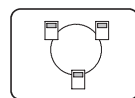


PB 2005



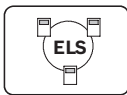


**PB 2005**

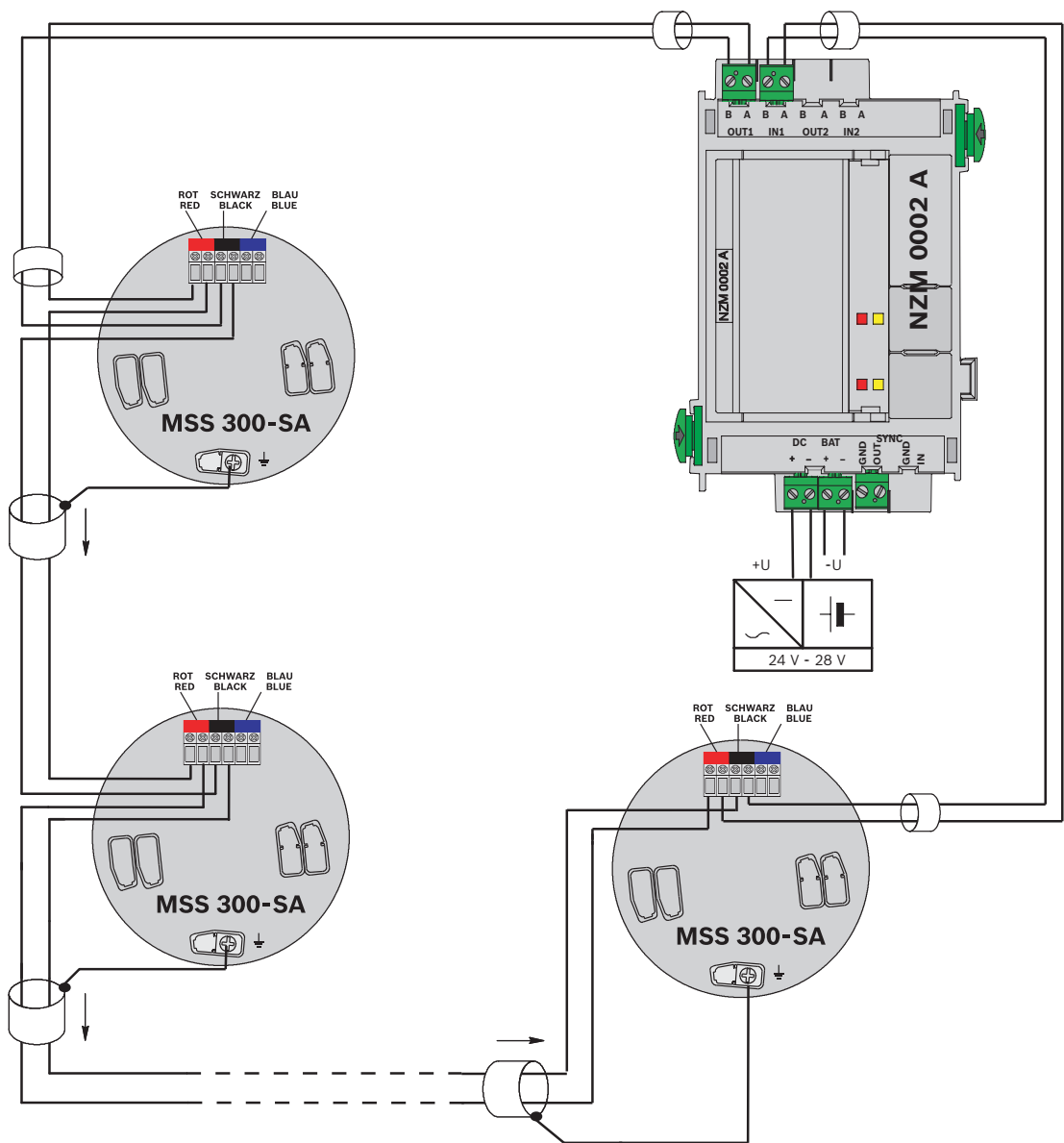




MSS 300-SA

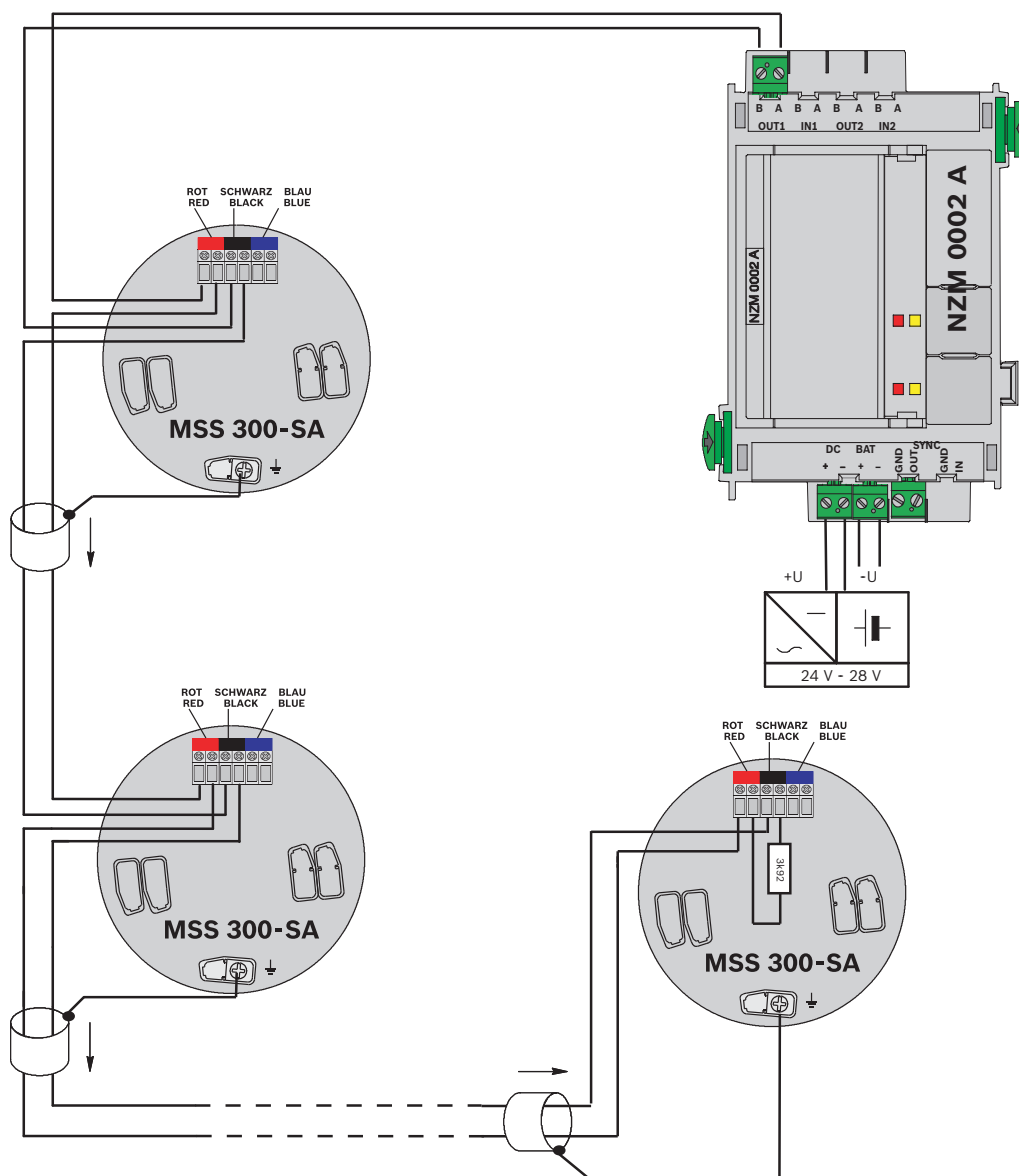
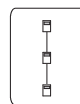


VdS 2489





MSS 300-SA



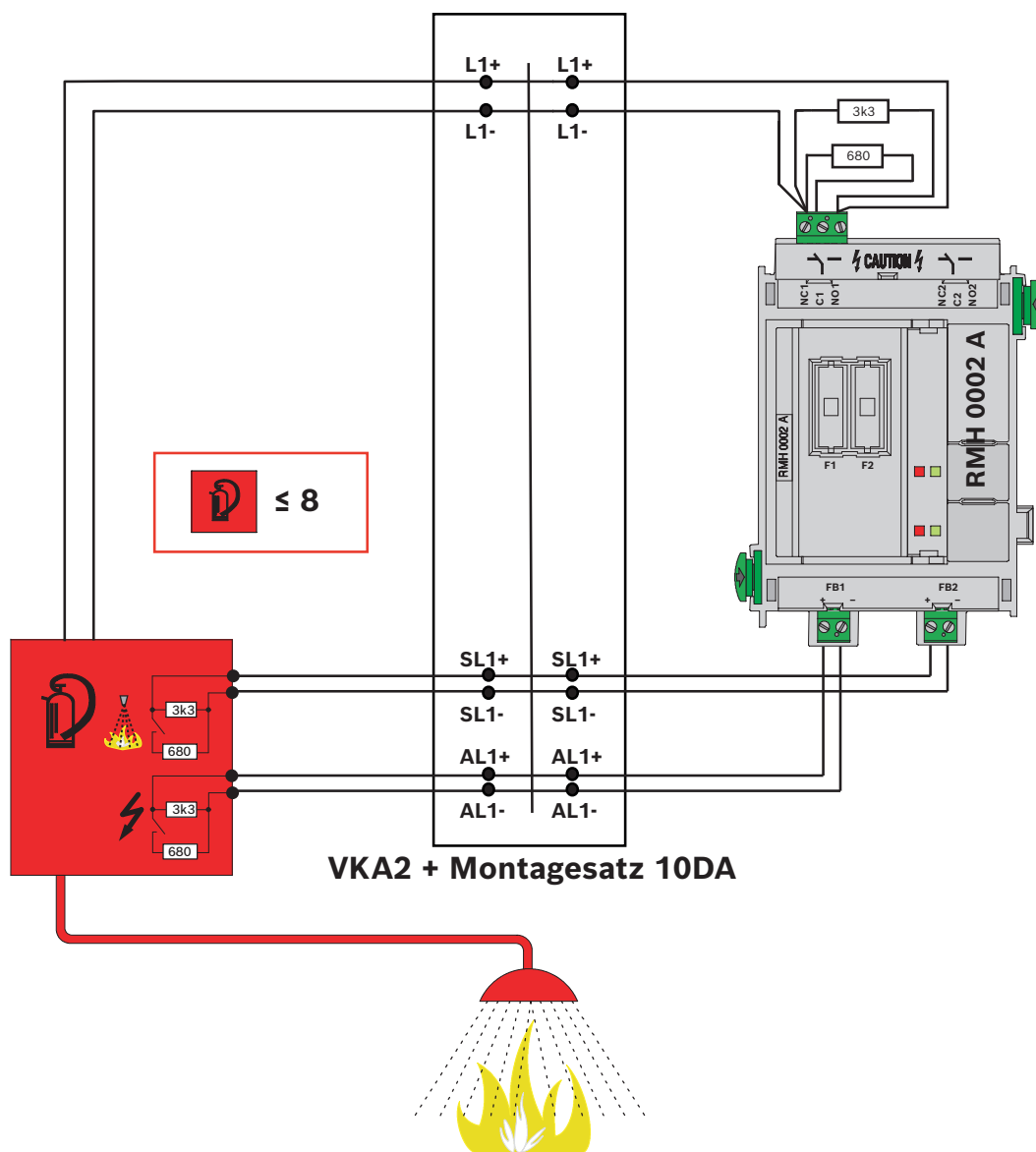
## 3.3.6

## RMH 0002 A

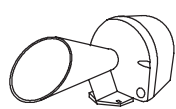


Löschanlage

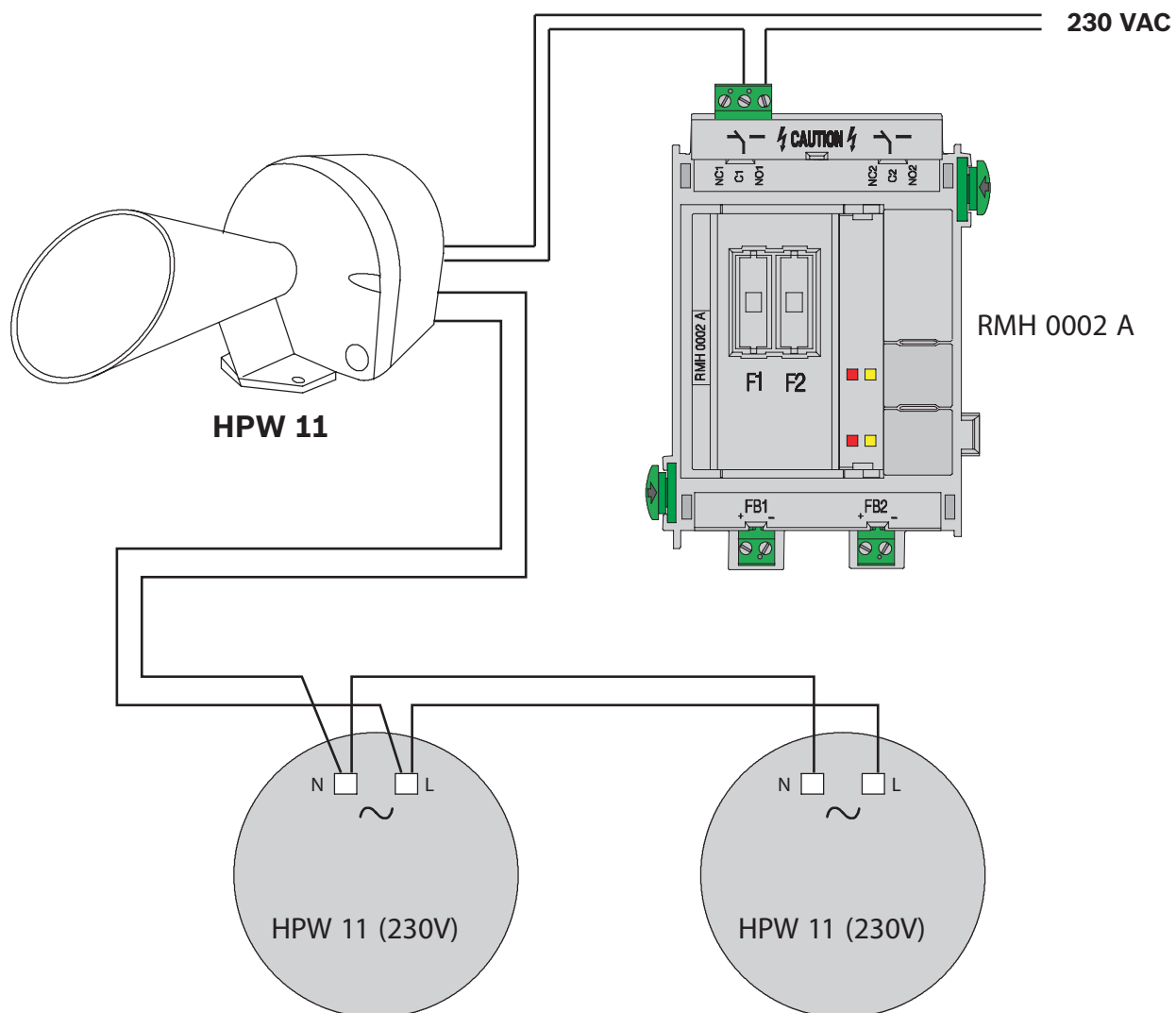
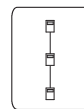
VdS 2496:2005-09

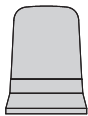




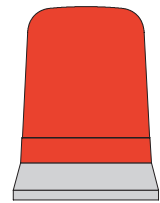
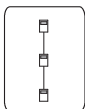


**HPW 11**

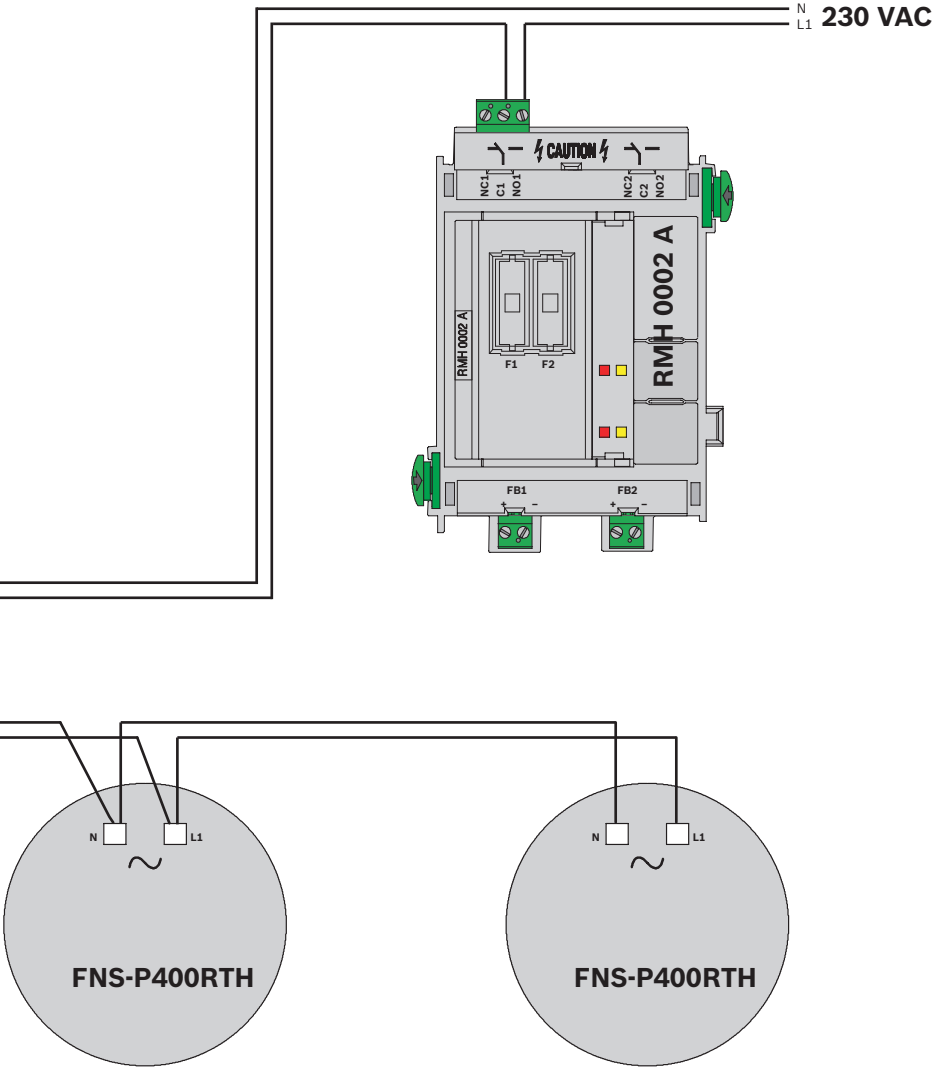




FNS-P400RTH

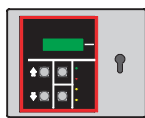


FNS-P400RTH

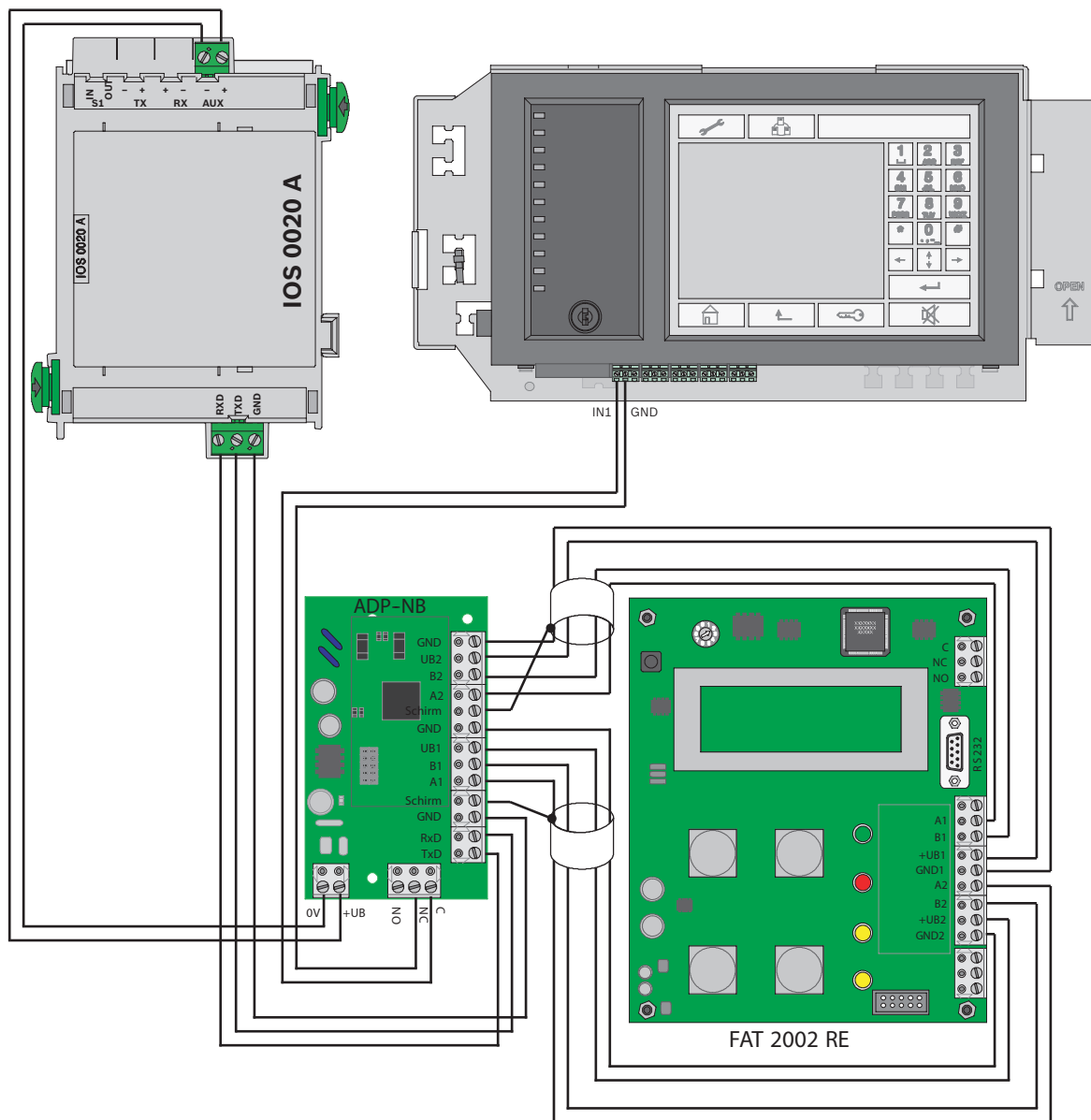


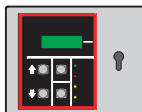
### 3.3.7

### IOS 0020 A

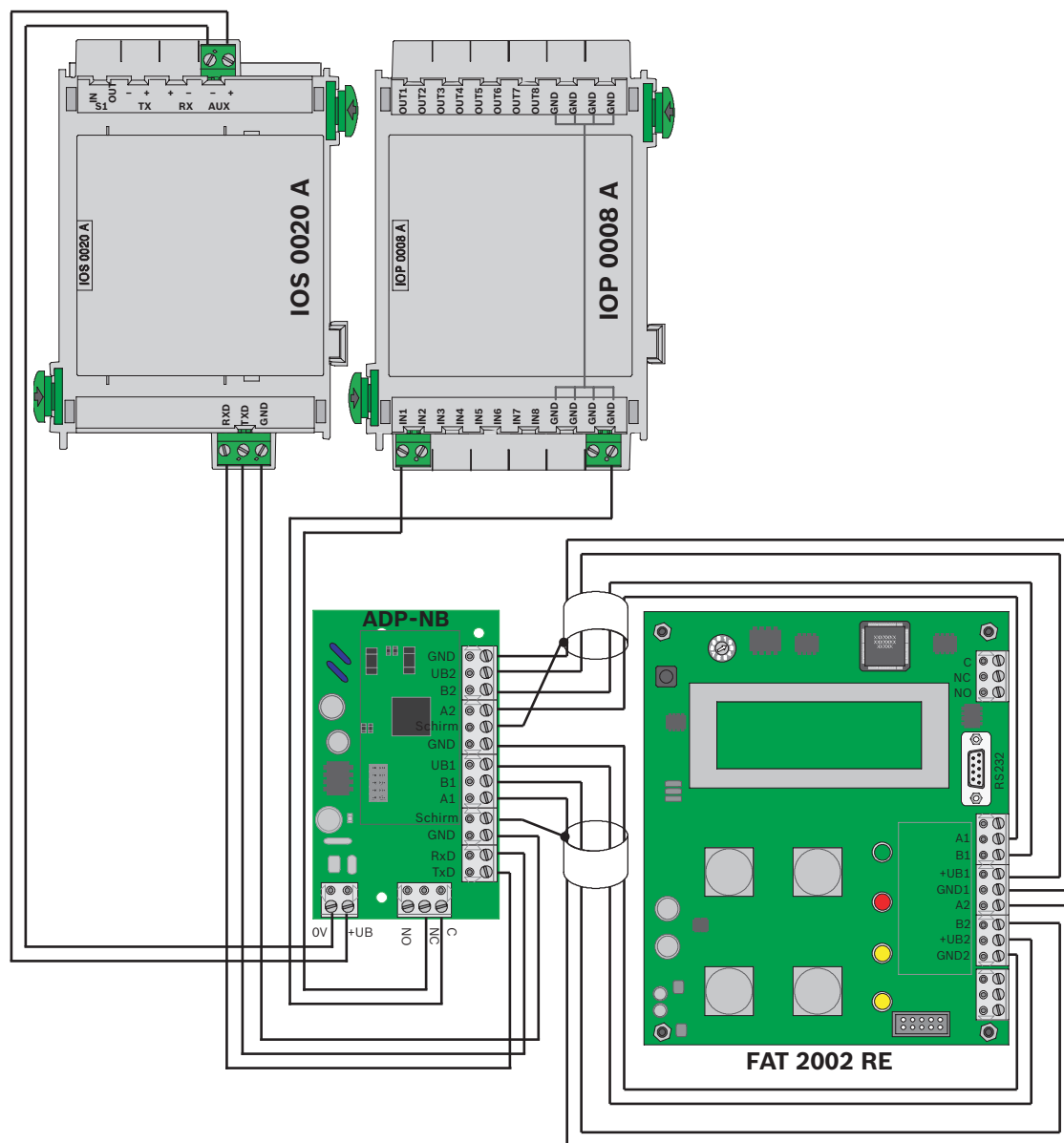


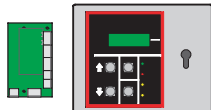
**FAT 2002 RE  
ADP-NB**



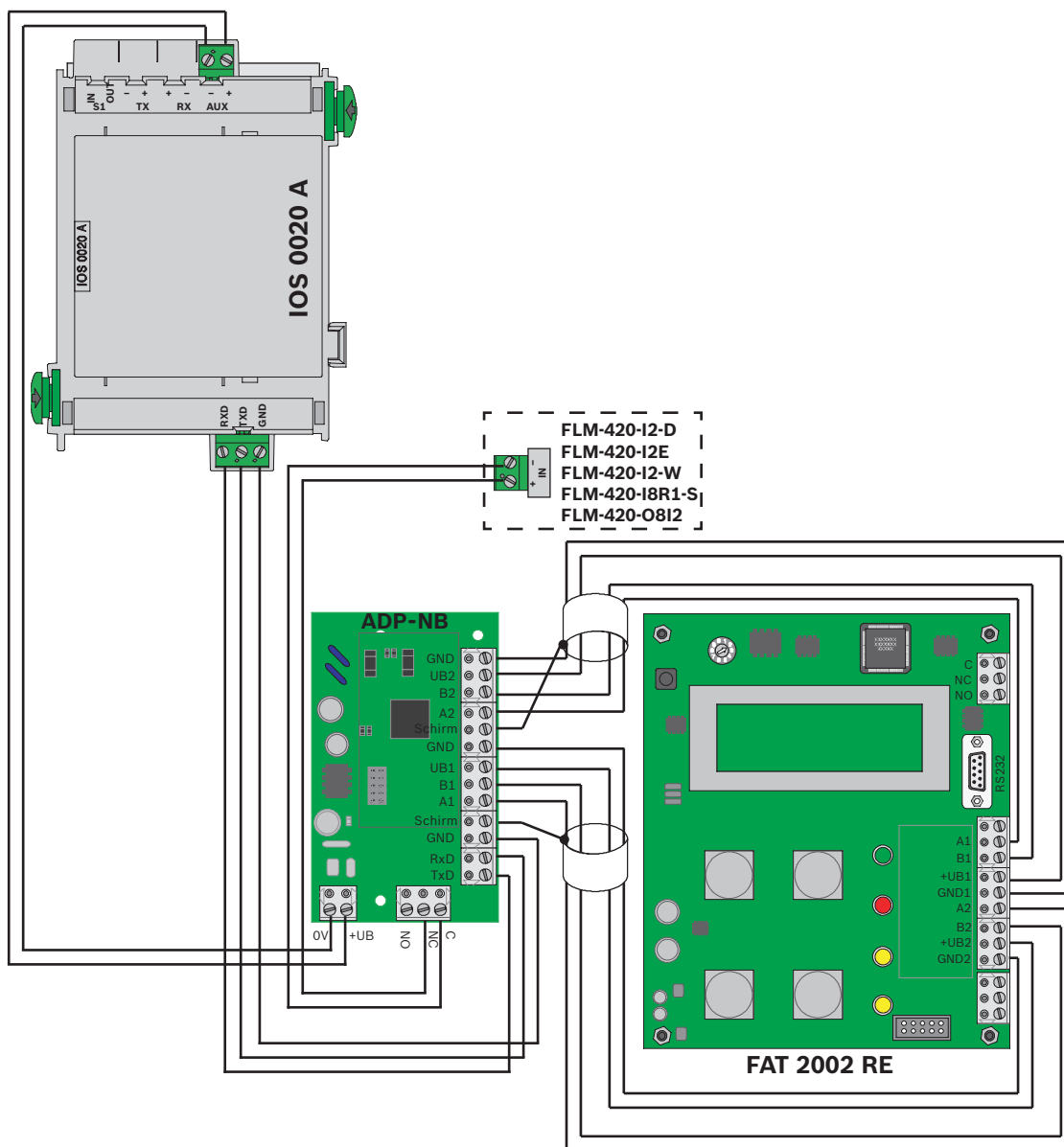


**FAT 2002 RE  
ADP-NB**



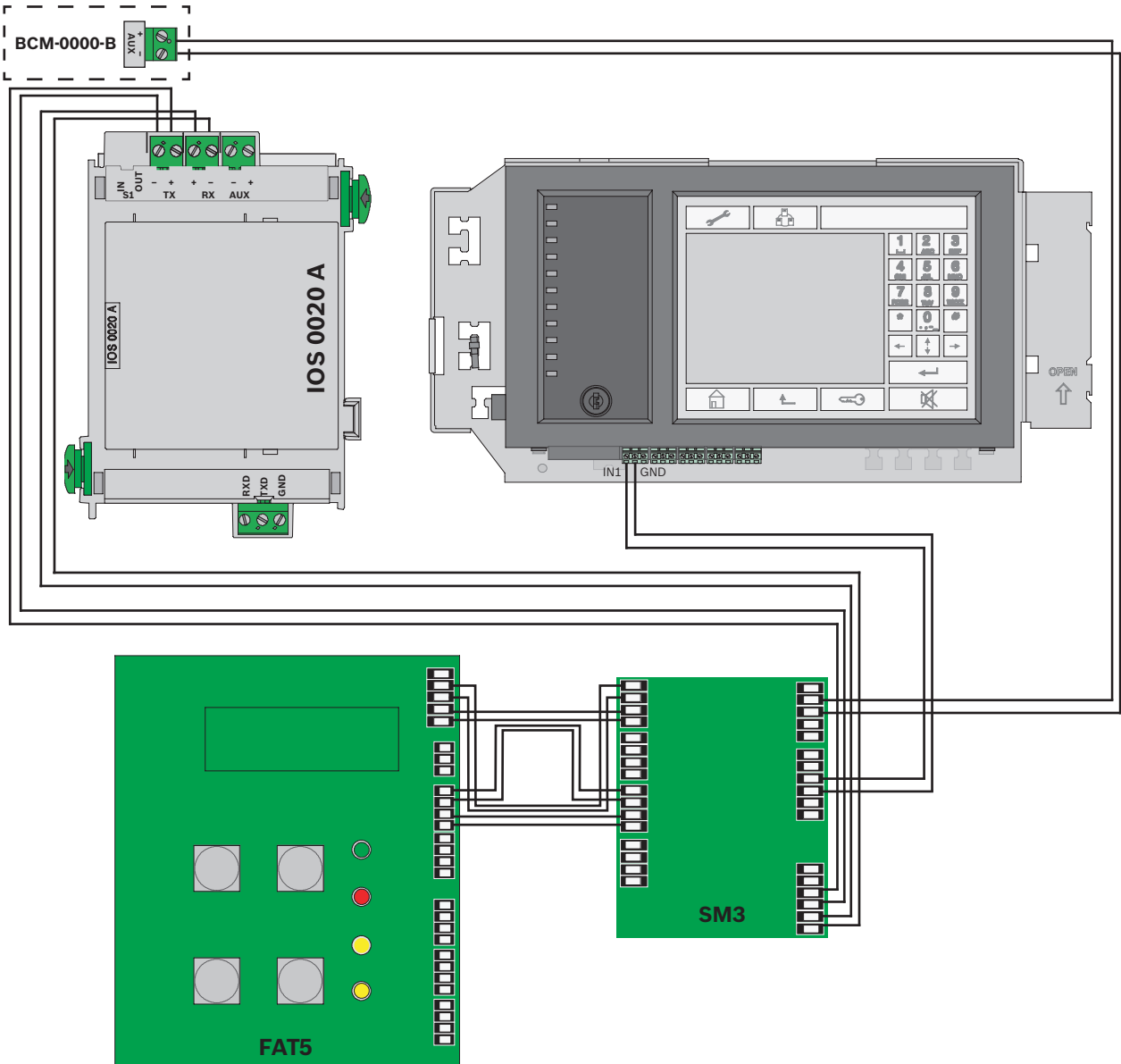


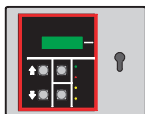
**FAT 2002 RE  
ADP-NB**



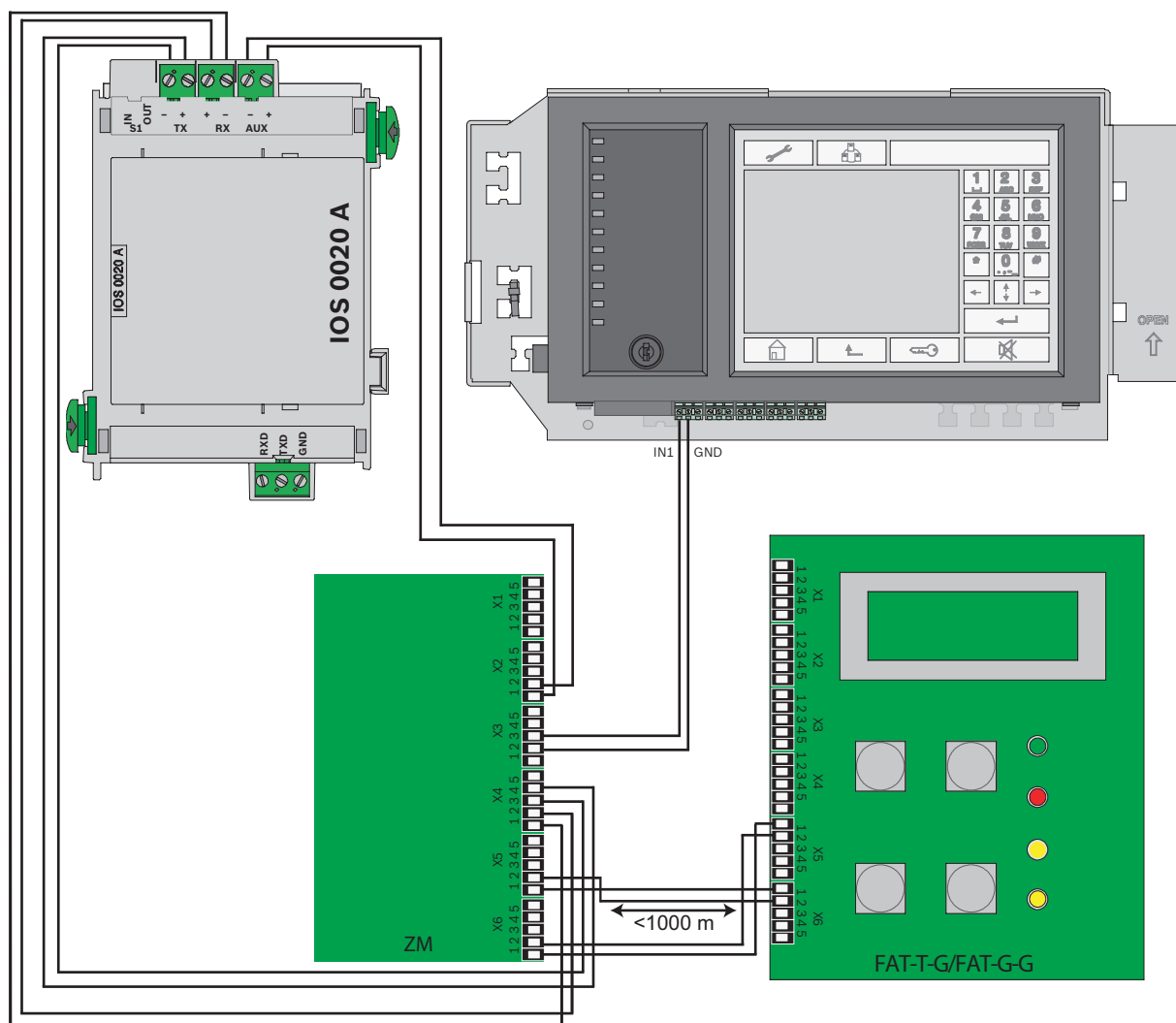


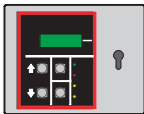
FAT5  
SM3



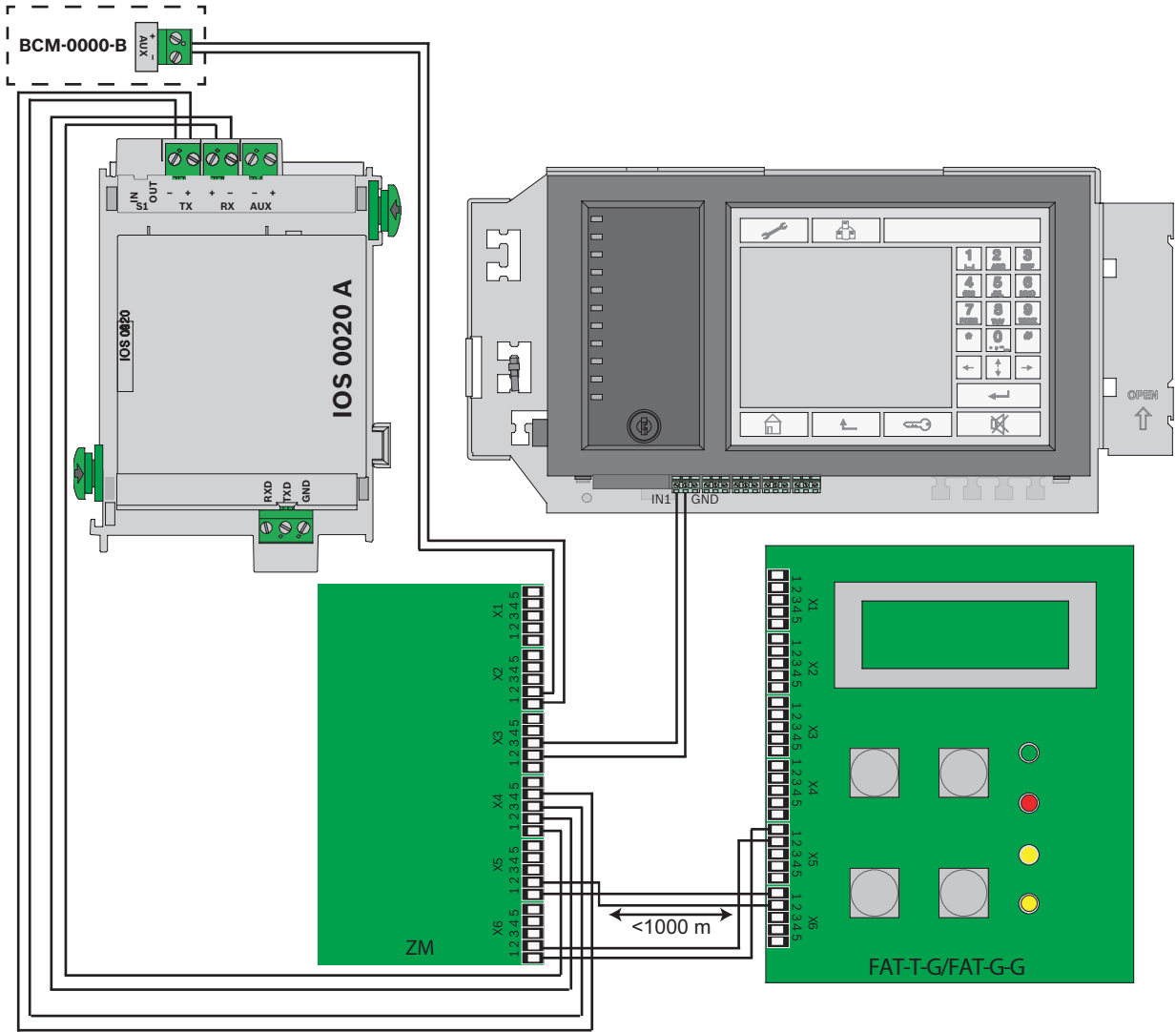


**FAT-T-G/FAT-G-G  
ZM**

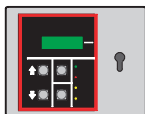




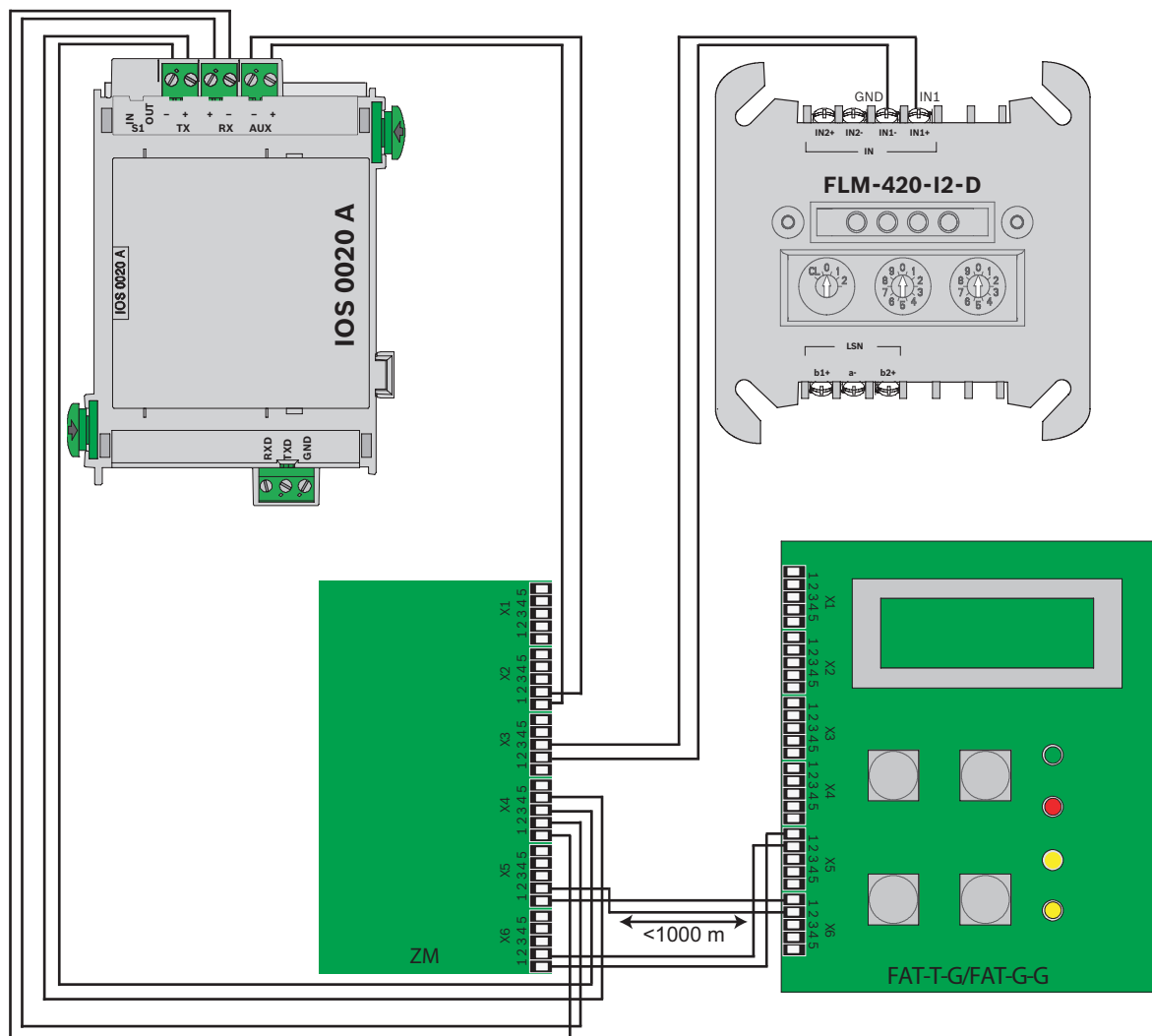
FAT-T-G/FAT-G-G  
ZM

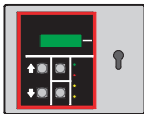




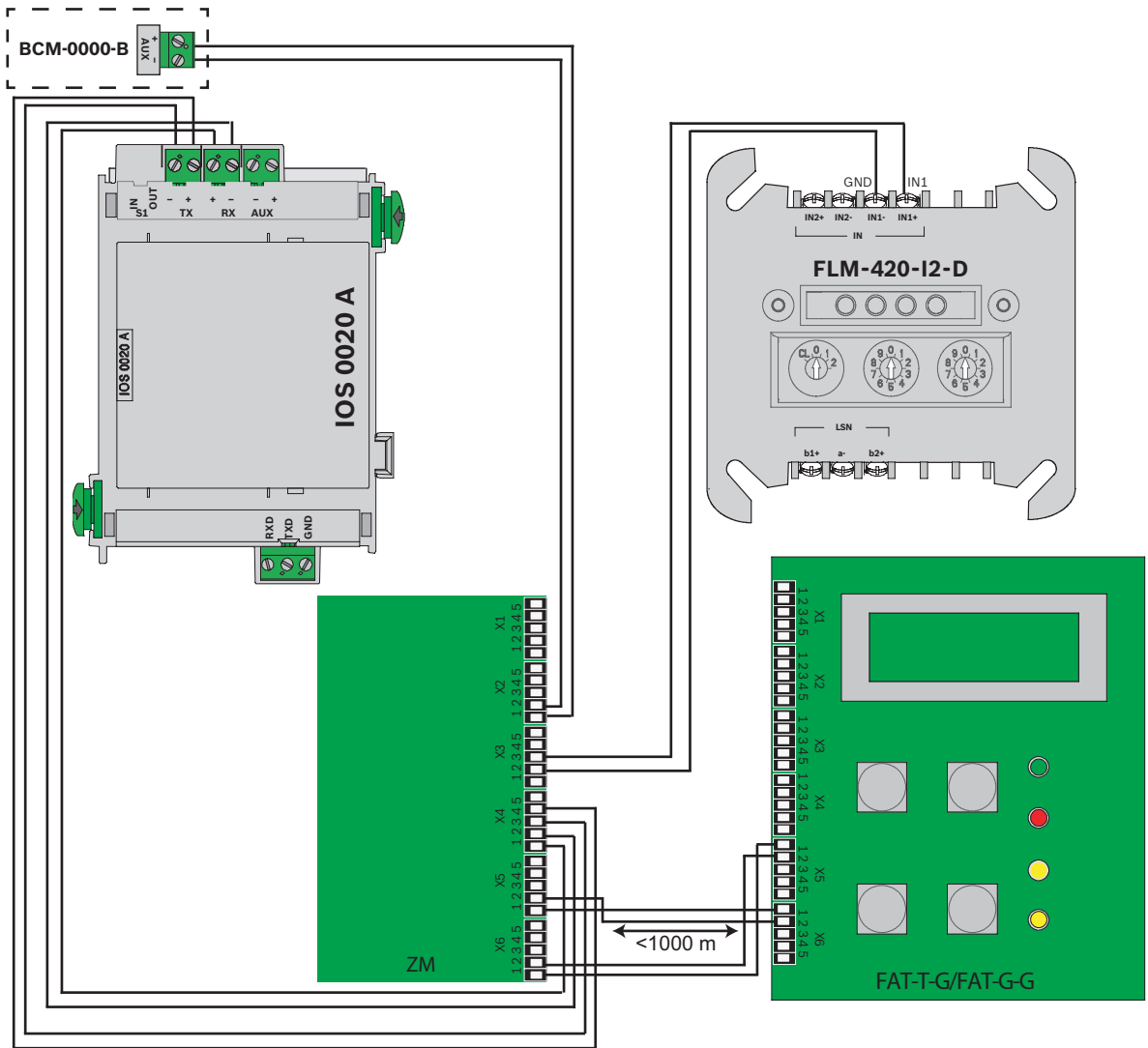


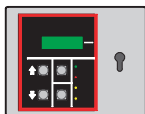
**FAT-T-G/FAT-G-G  
ZM**



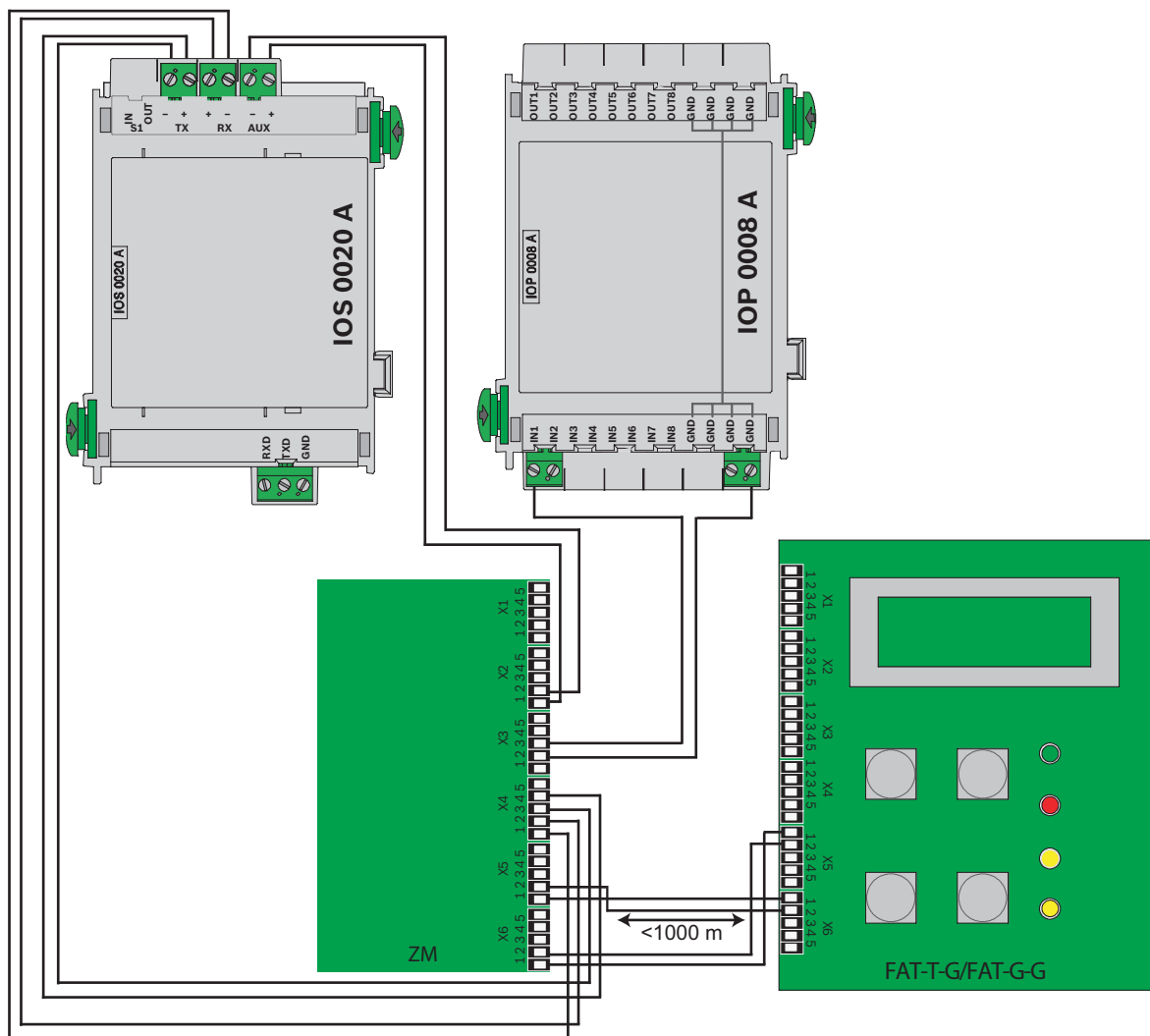


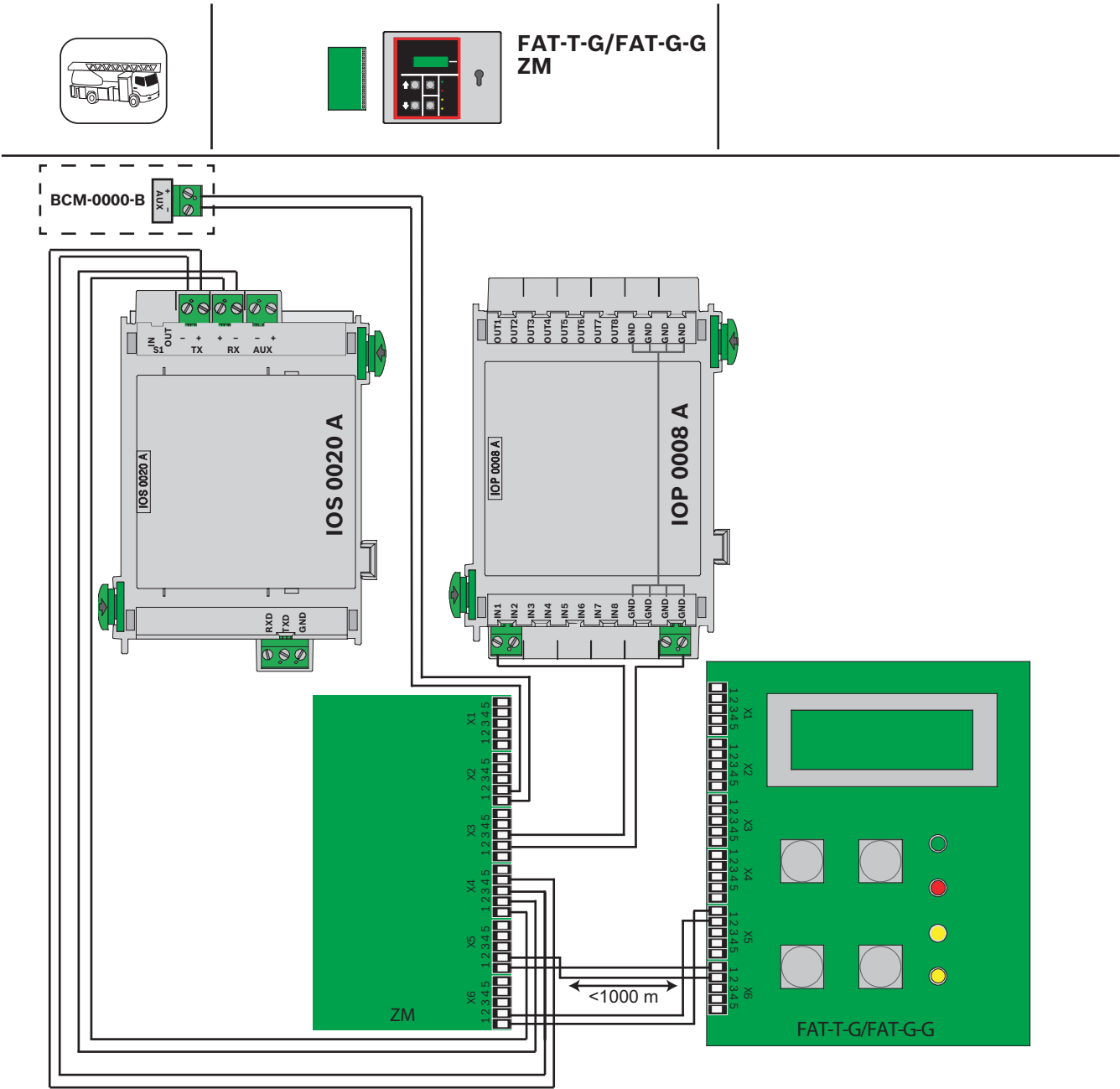
FAT-T-G/FAT-G-G  
ZM

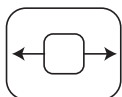




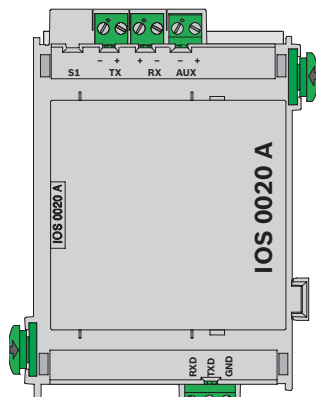
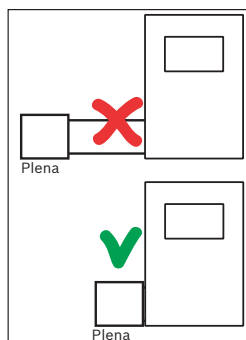
**FAT-T-G/FAT-G-G  
ZM**



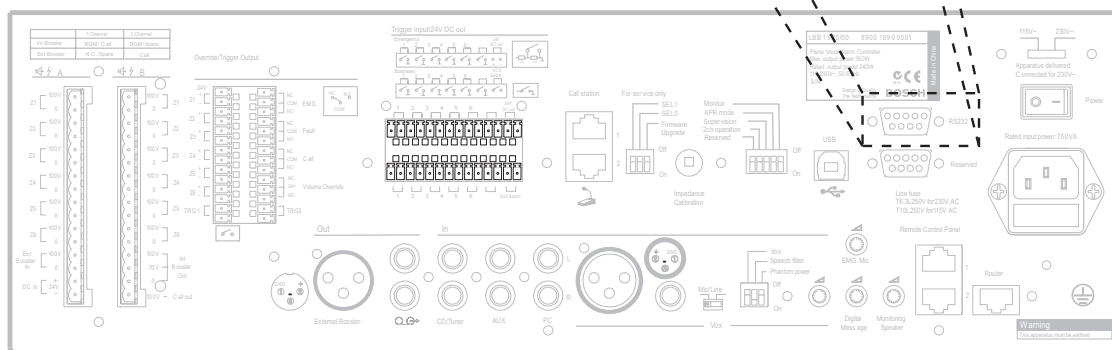
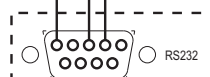


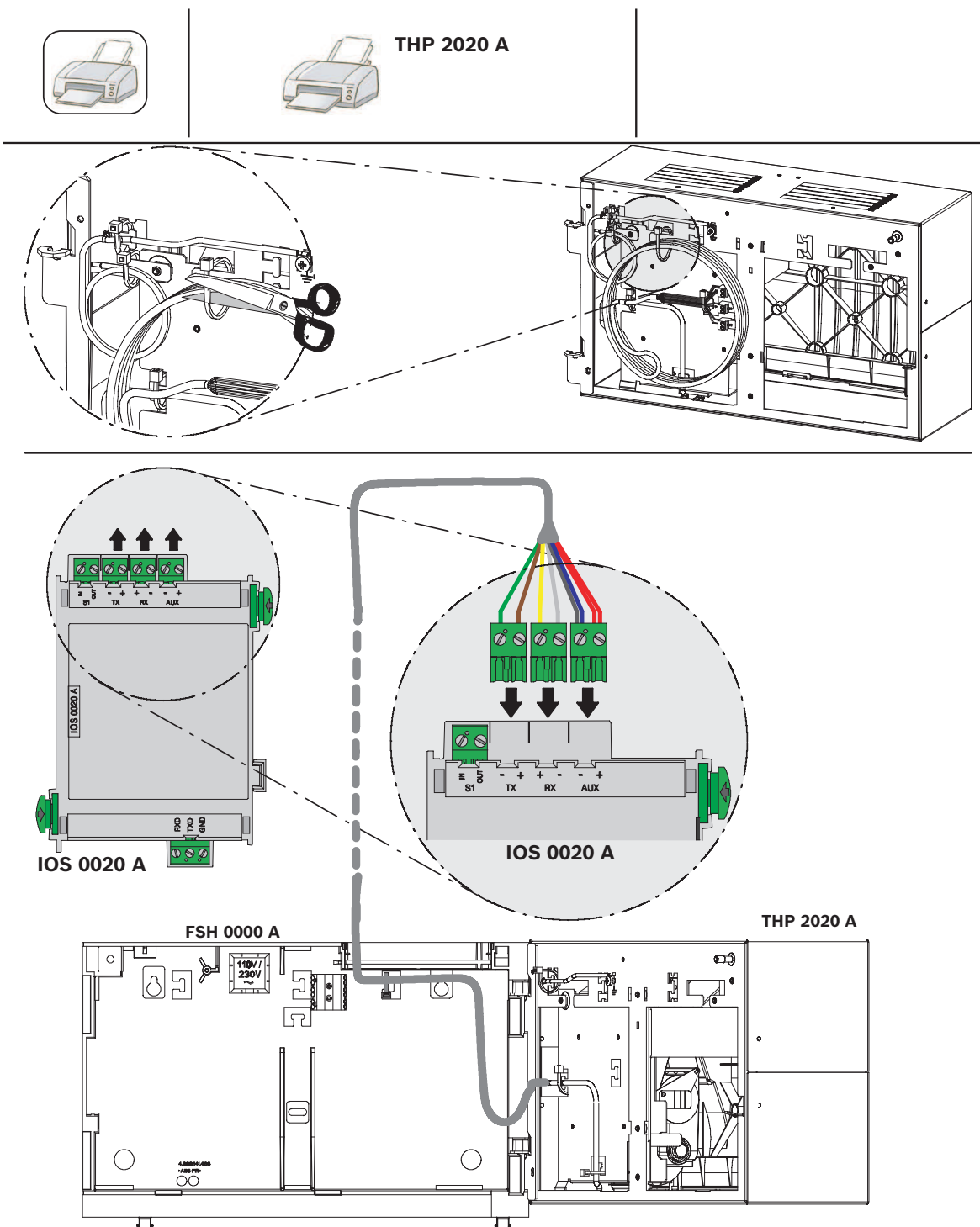


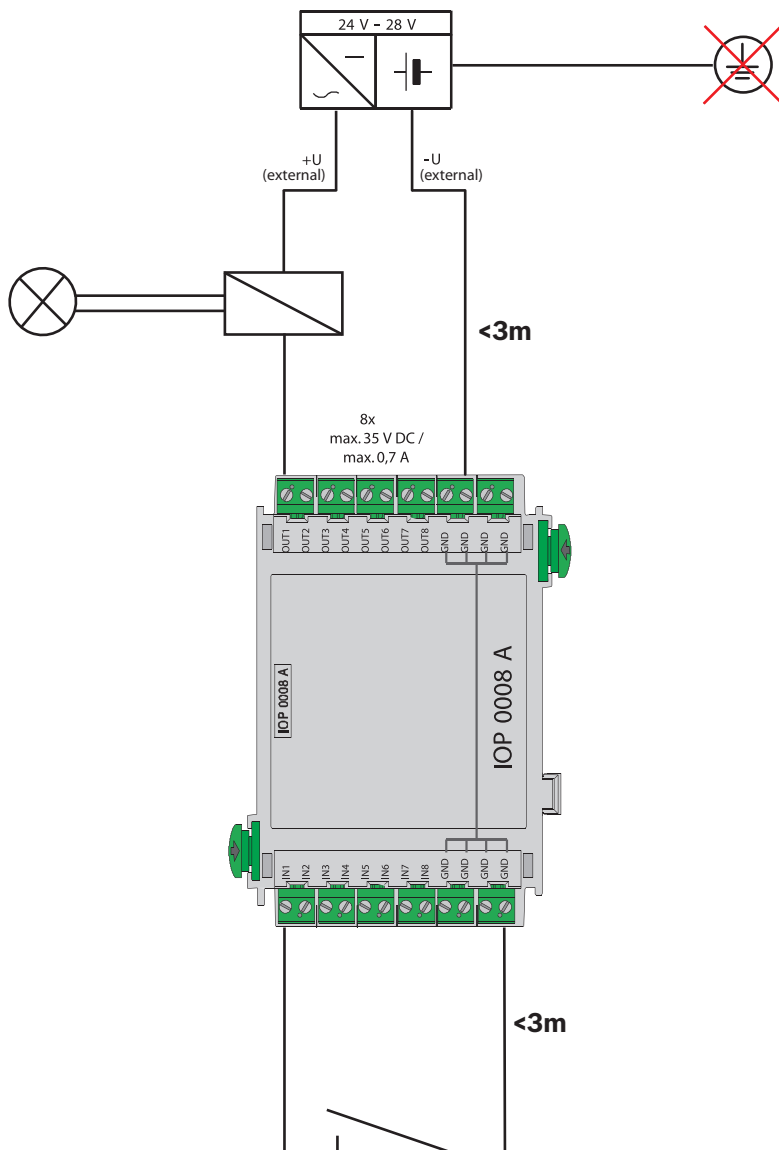
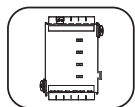
Plena



max. 3m













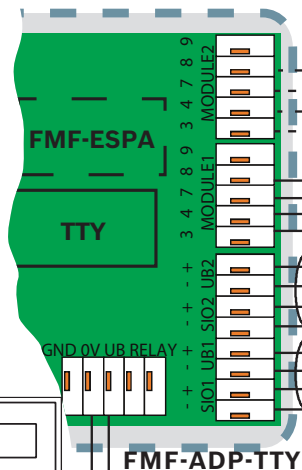
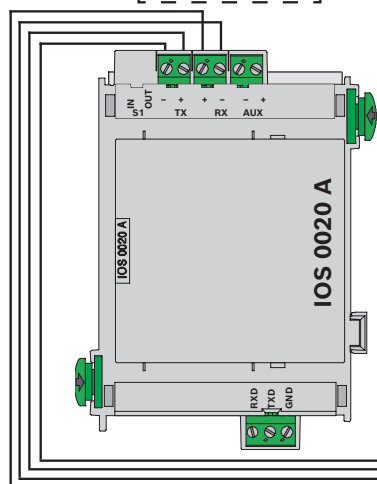
FAT4000 FBF4000 ADP4000

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

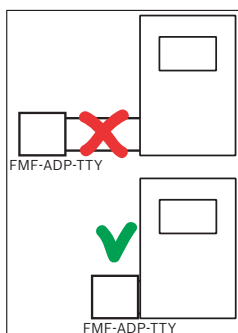
ELS VdS 2489

BCM-000-B

AUX

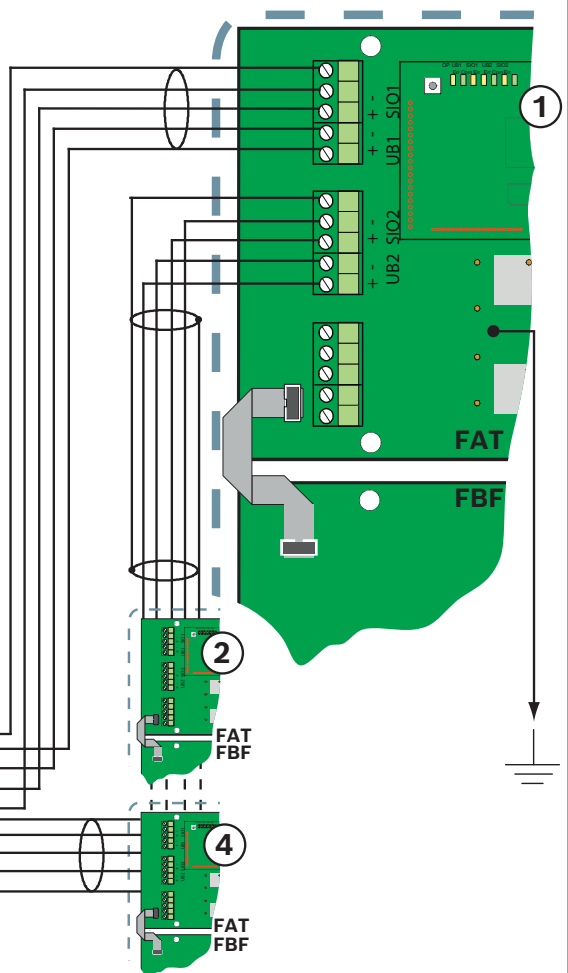


FMF-ADP-TTY



0V

+U



## 3.3.8

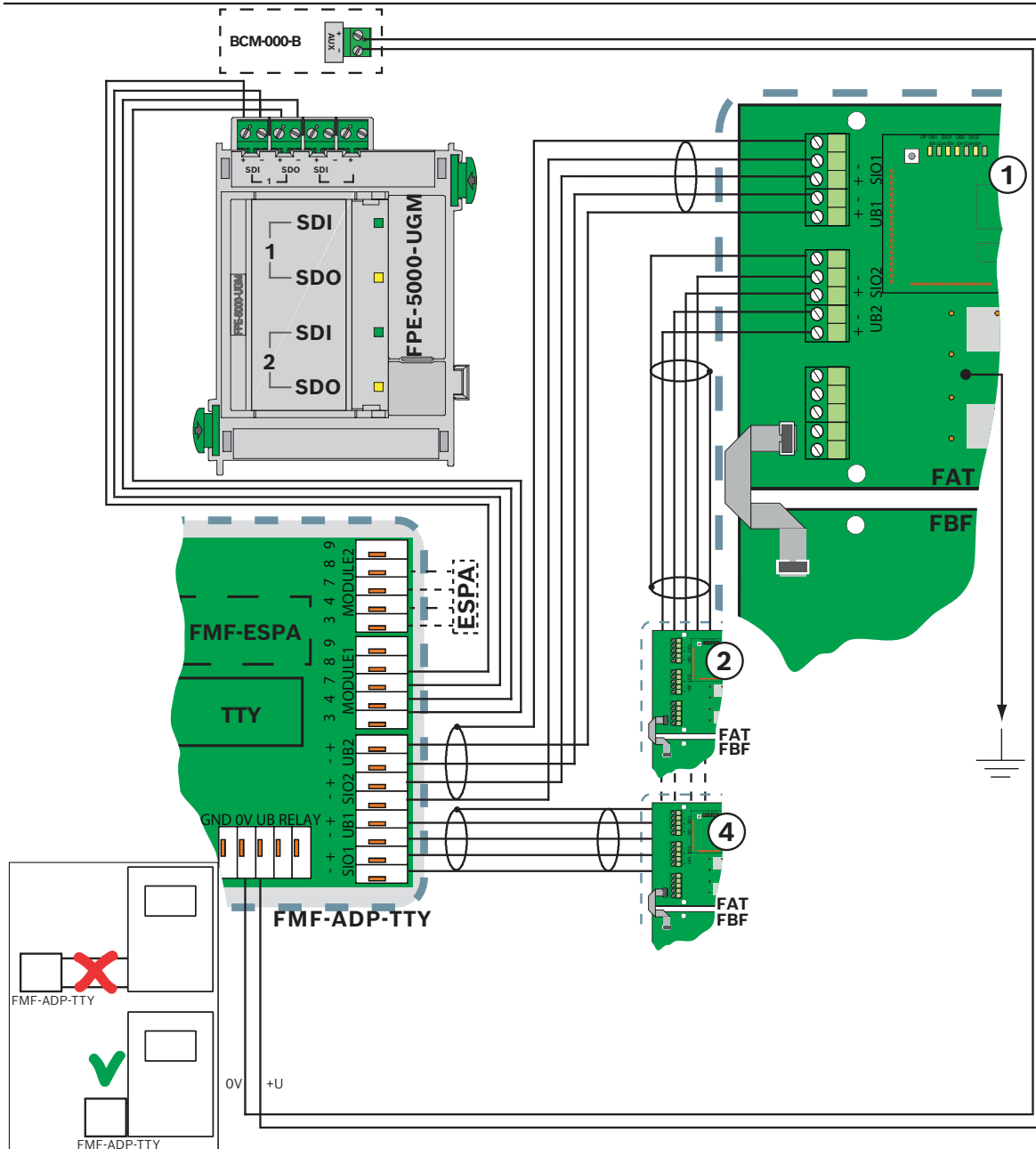
## FPE-5000-UGM

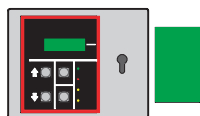


FAT4000 FBF4000 ADP4000

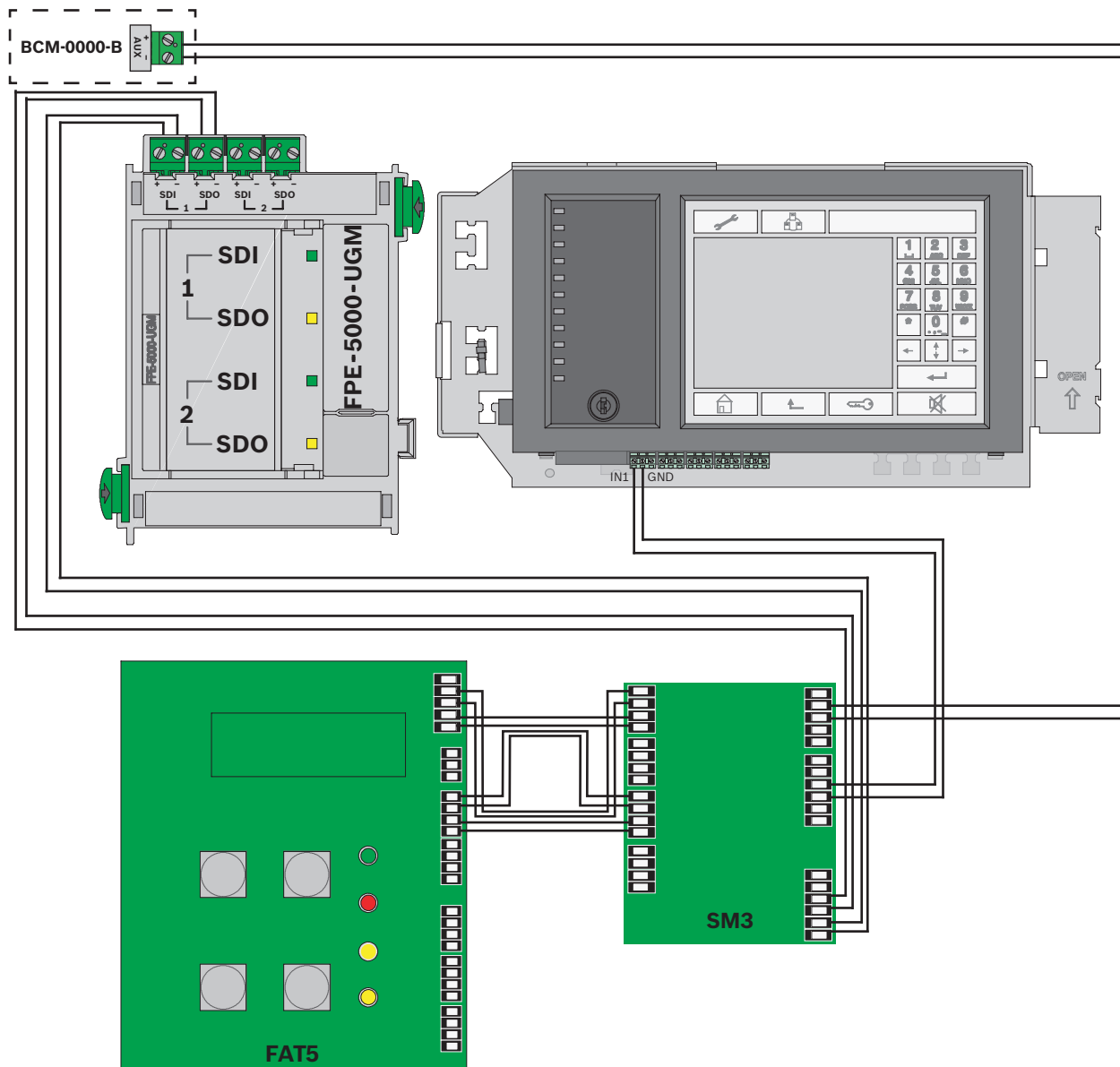
FMF-FAT FMF-FBF-FAT  
FMF-FIBS-A4/-A3  
FMF-ADP

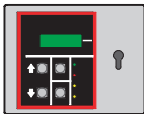
ELS VdS 2489



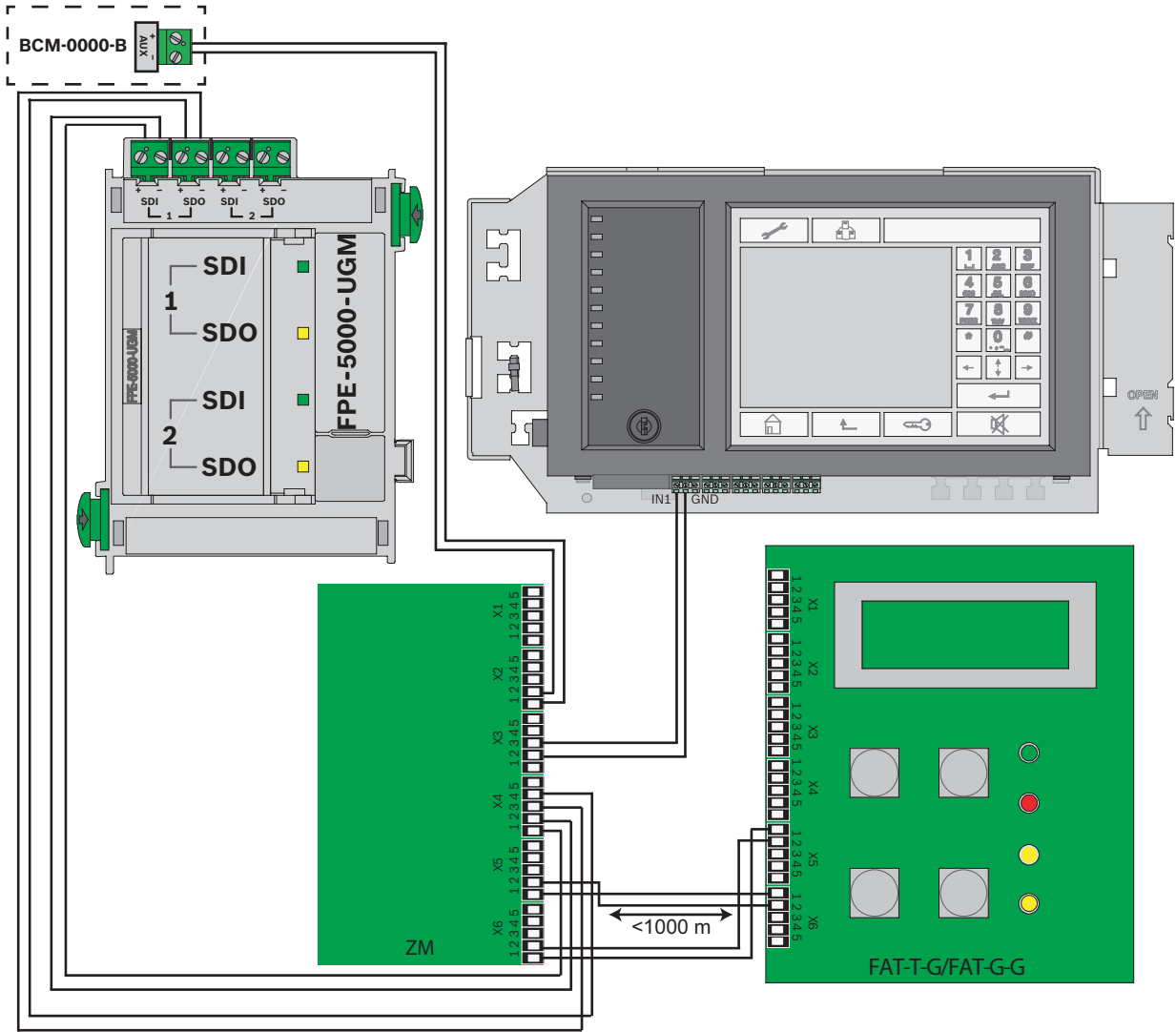


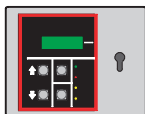
FAT5  
SM3



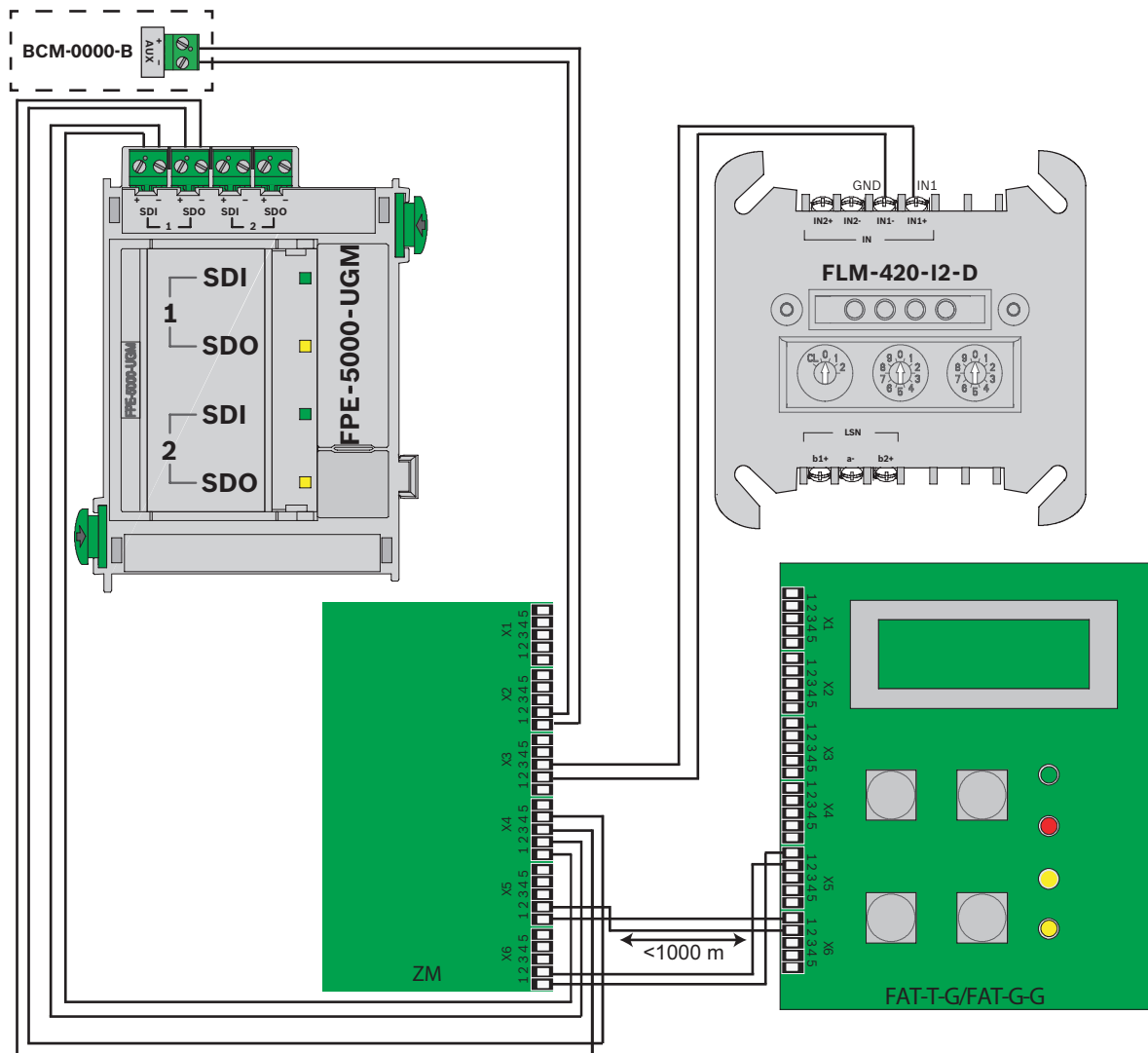


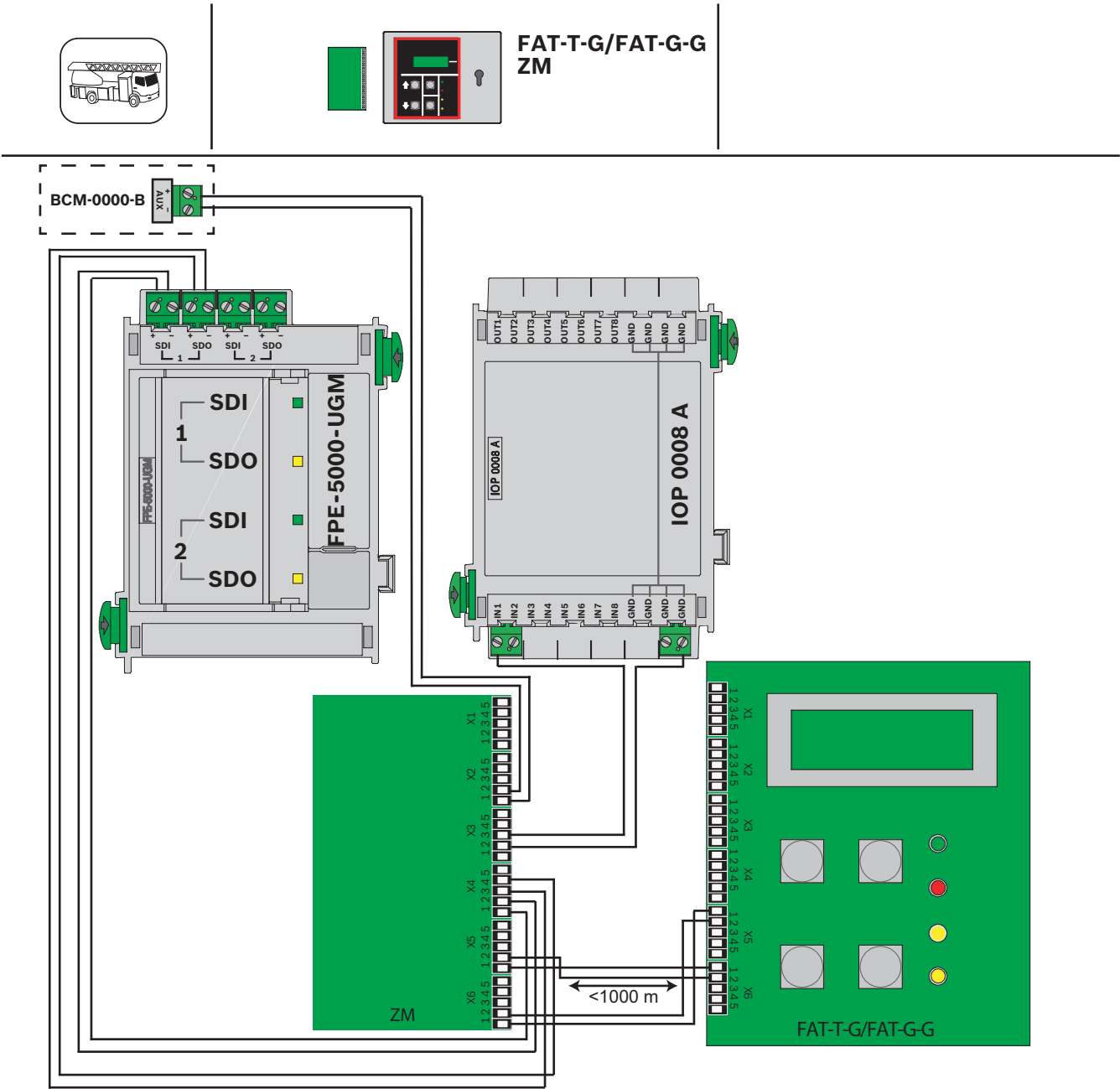
FAT-T-G/FAT-G-G  
ZM





FAT-T-G/FAT-G-G  
ZM





## 3.4

### Δομοστοιχεία διασύνδεσης



*FLM-420/4-CON-D/S, σελίδα 138*

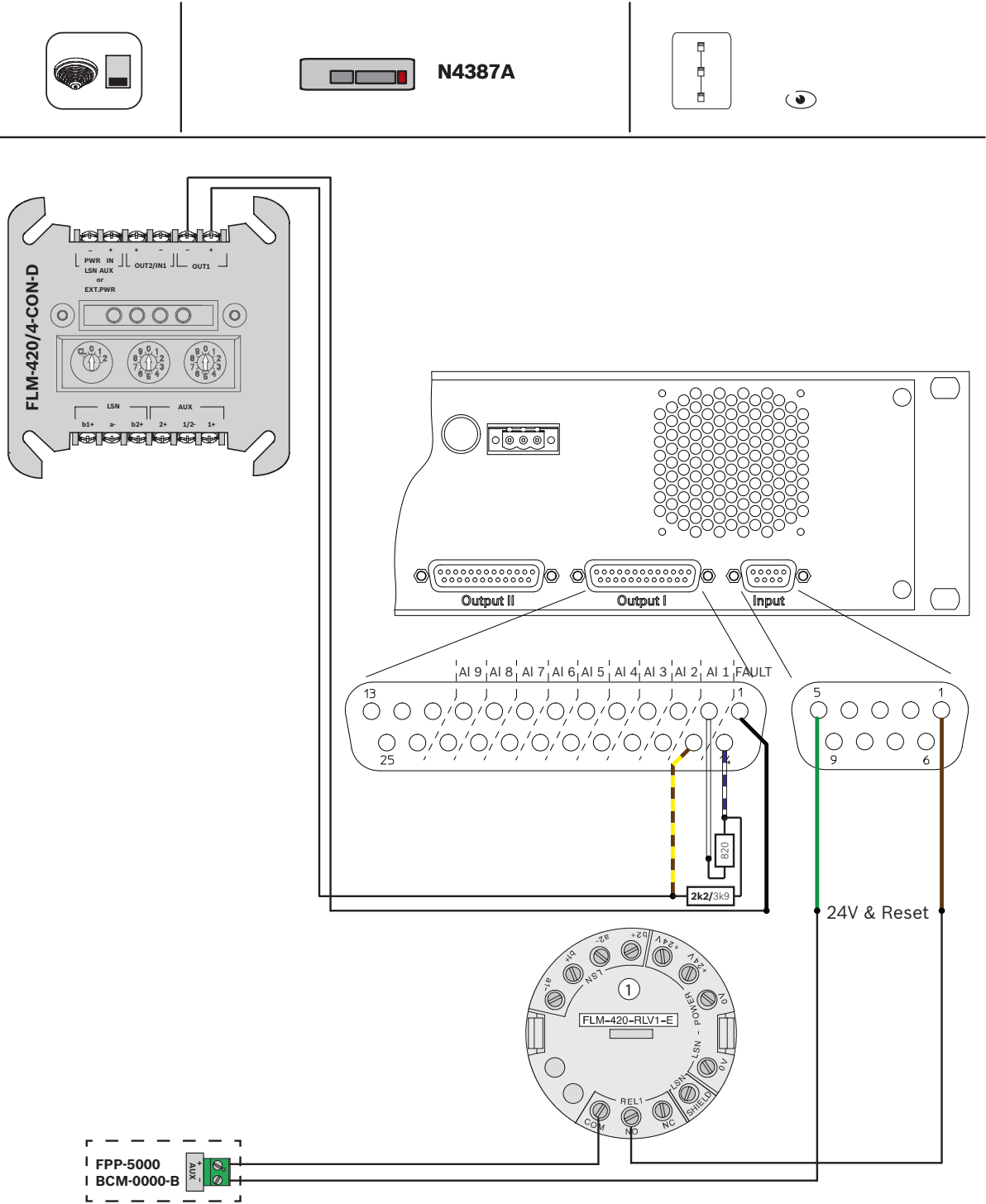
*FLM-420-NAC-D/S, σελίδα 163*

*FLM-420-RLE-S, σελίδα 176*

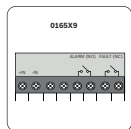
*FLM-420-RLV1-E, σελίδα 177*

*FLM-420-RLV8-S, σελίδα 178*

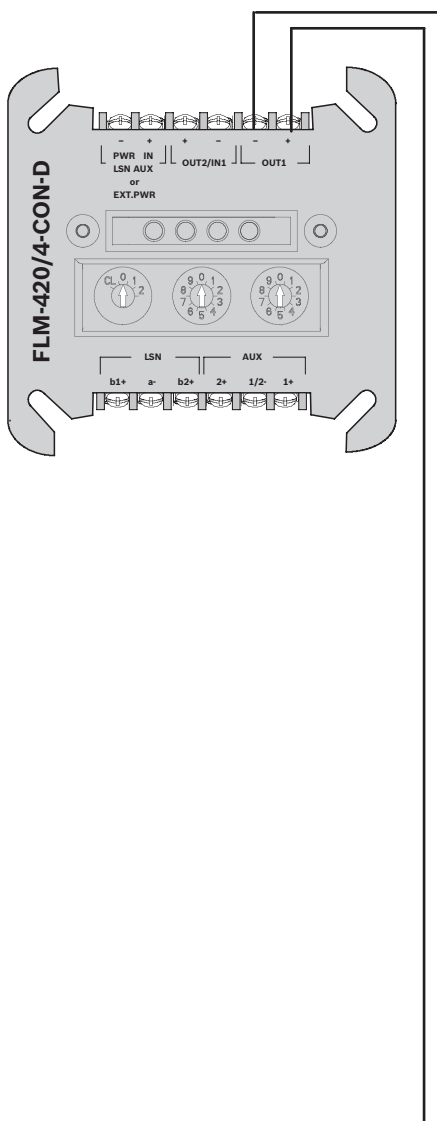
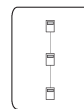
3.4.1 FLM-420/4-CON-D/S



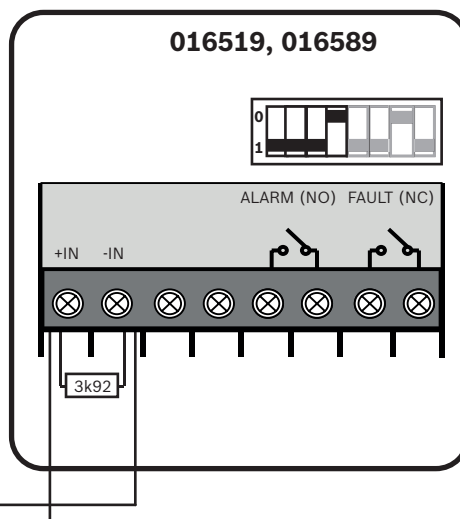


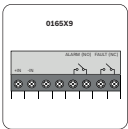


## 016519, 016589 IR3 Flame Detector

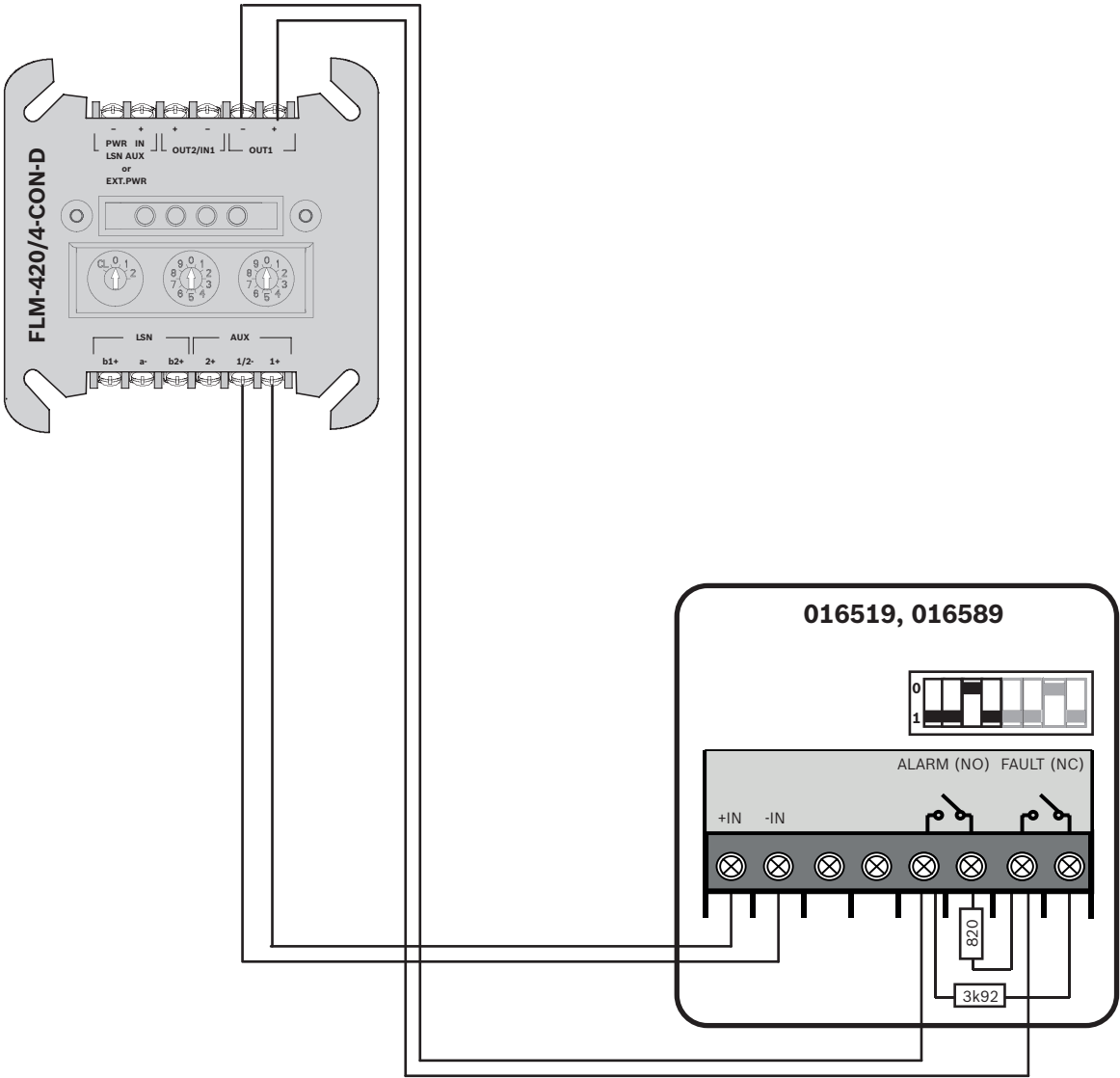
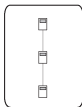


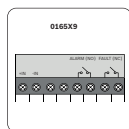
**max. 1 x 0165X9**



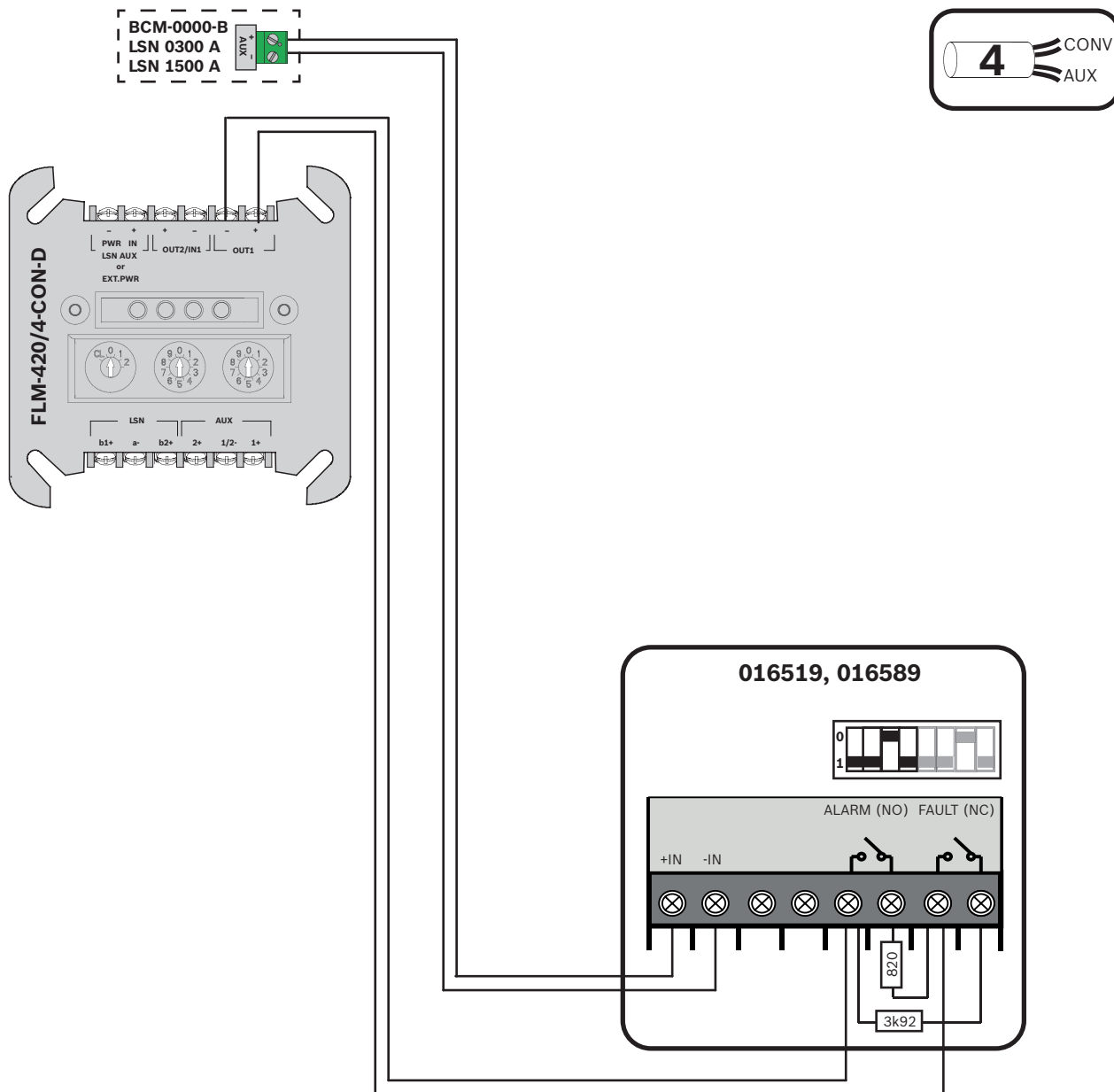
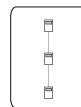


016519, 016589  
IR3 Flame Detector



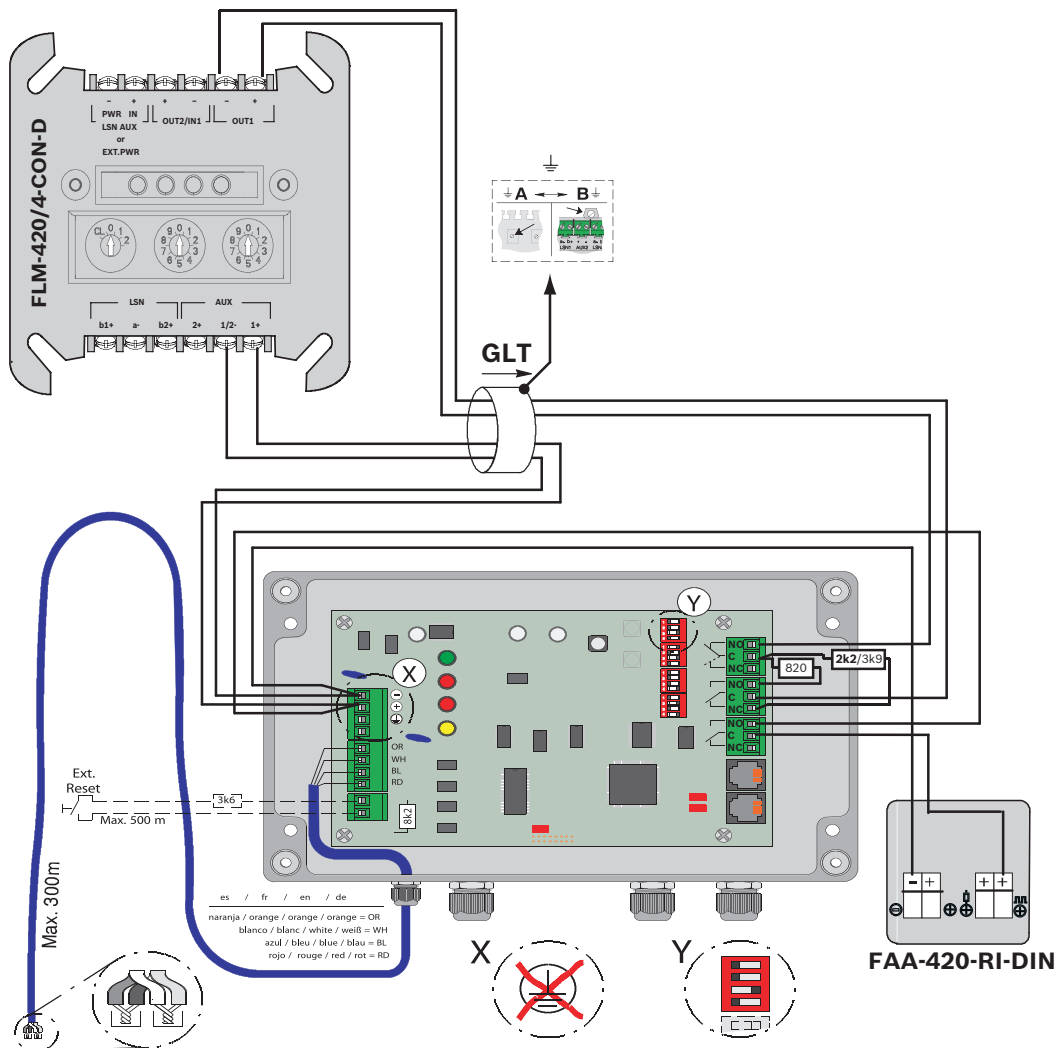
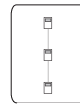


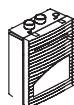
## 016519, 016589 IR3 Flame Detector





FCS-LWM-1

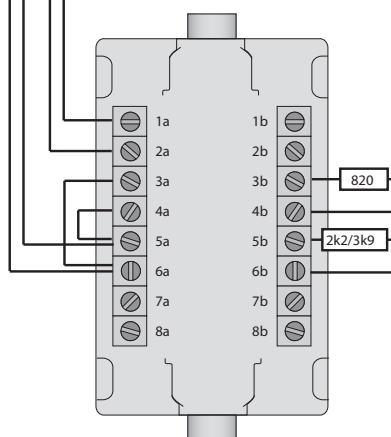
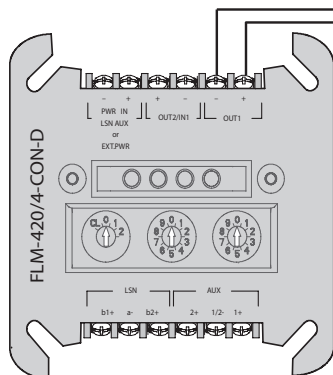
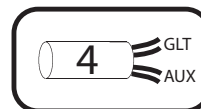


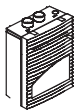


FCS-320-TM Series

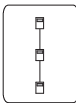


BCM-0000-B  
LSN 0300 A  
LSN 1500 A

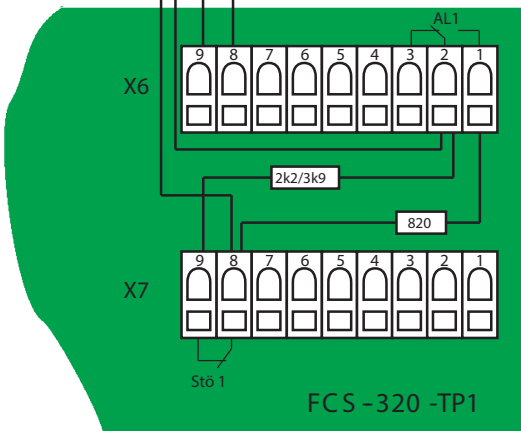
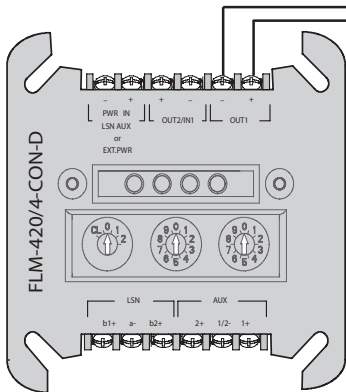
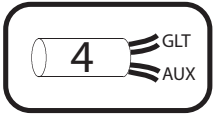


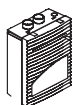


FCS-320-TP Series

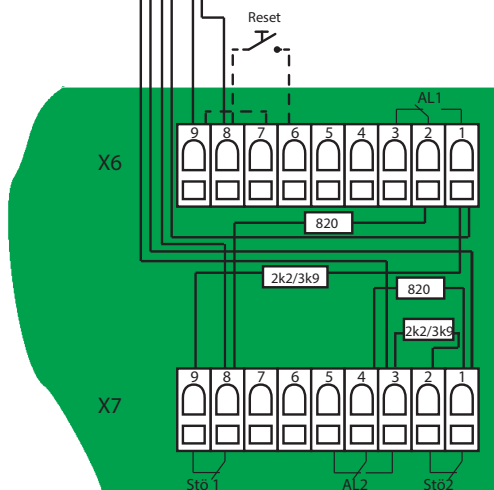
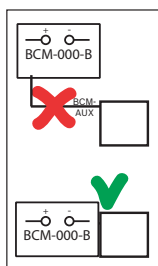
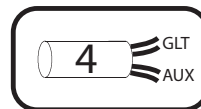
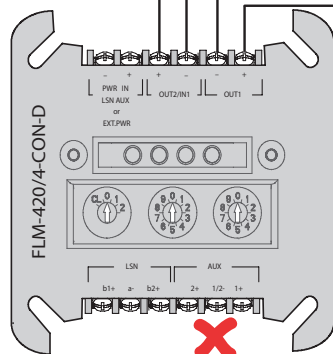
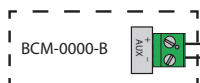


BCM-0000-B  
LSN 0300 A  
LSN 1500 A

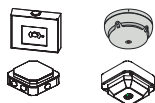




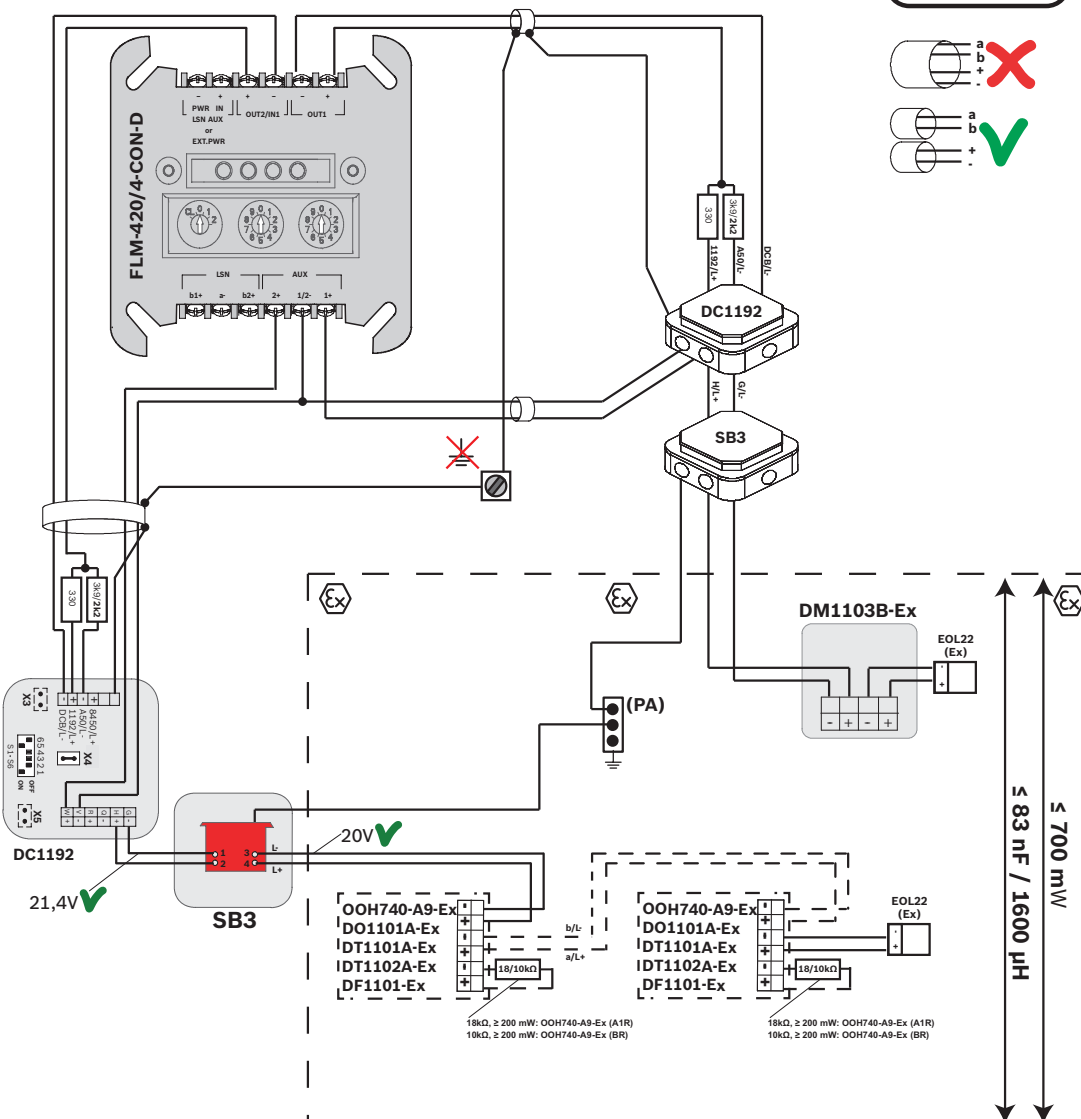
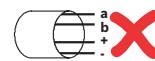
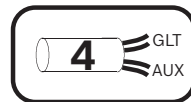
FCS-320-TP Series



FCS-320-TP2



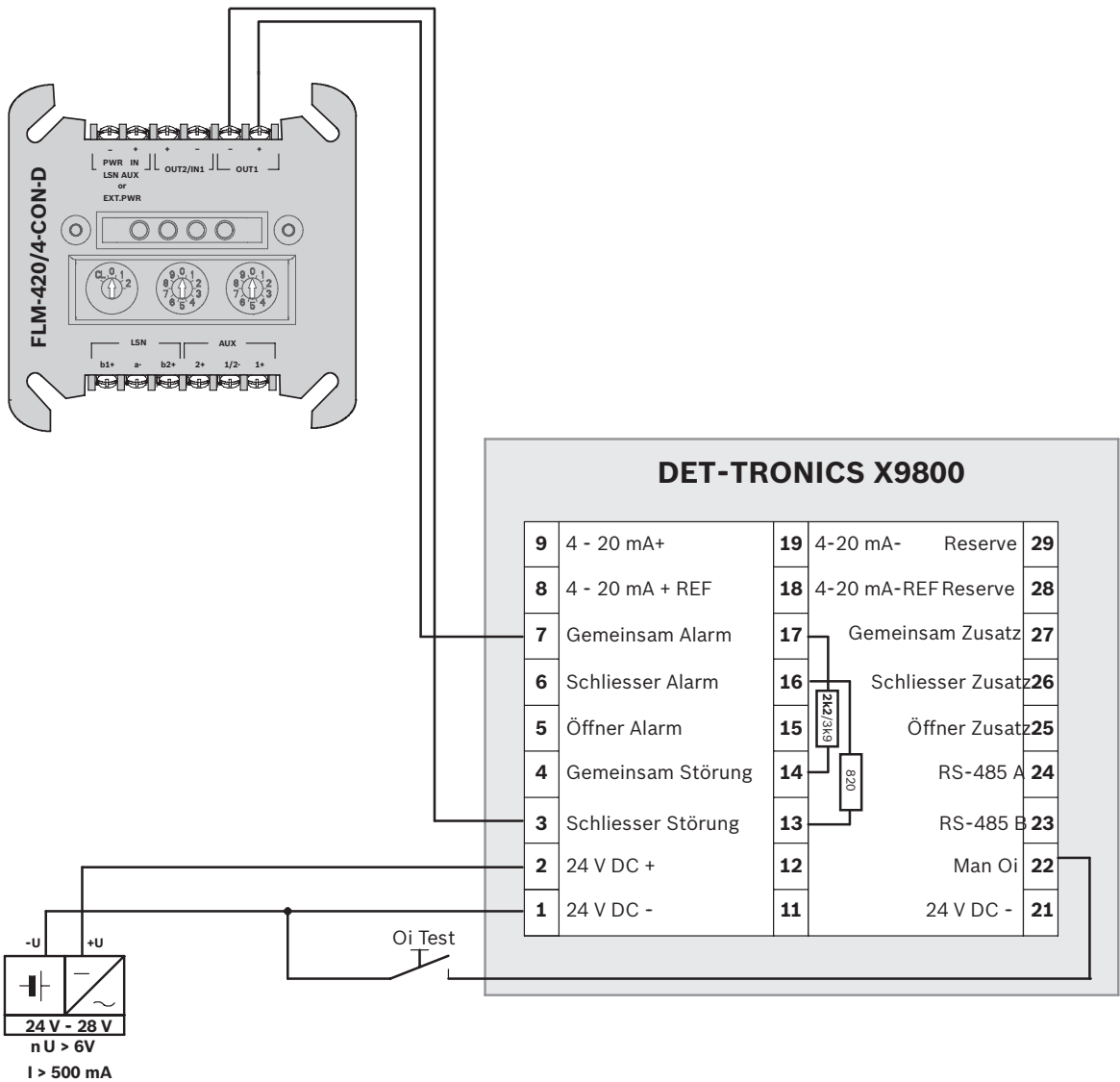
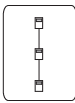
DC1192, SB3  
OOH740-A9-Ex  
DO1101A-Ex  
DT1101A-Ex/DT1102A-Ex  
DF1101-Ex  
DM1103B-Ex





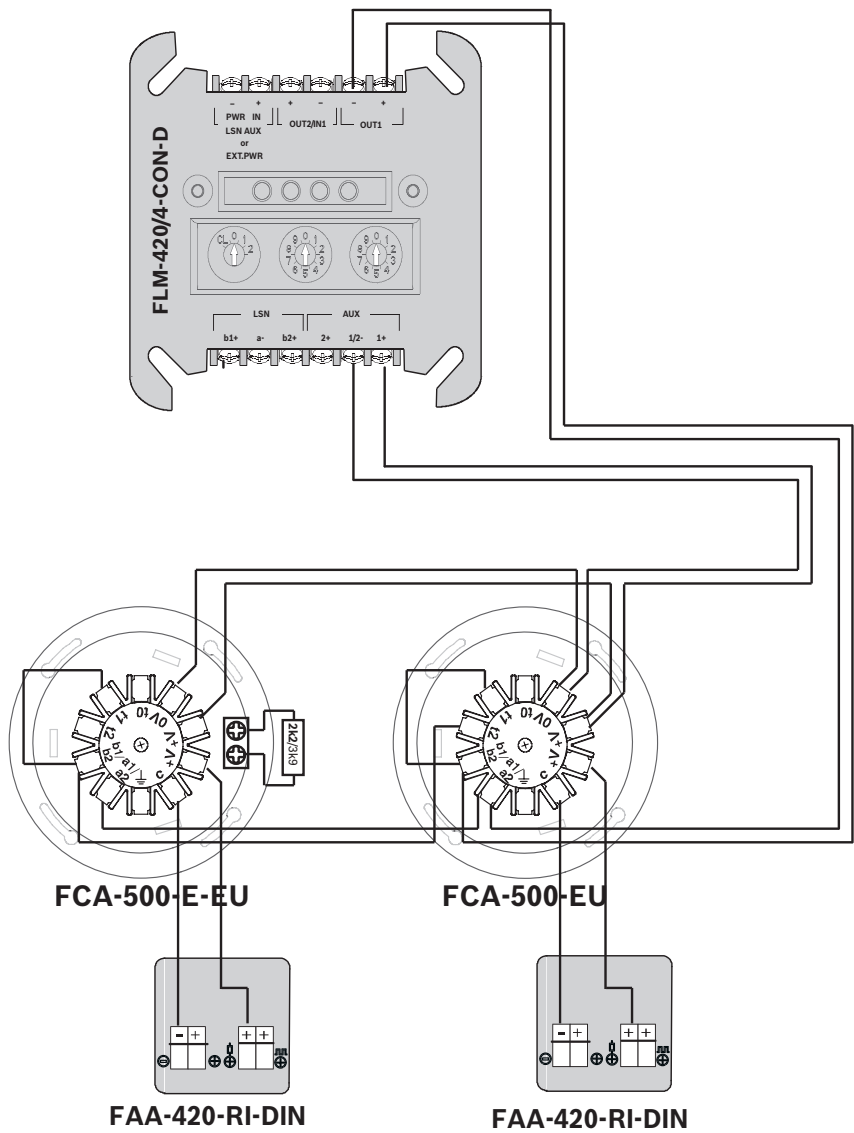


DET-TRONICS X9800



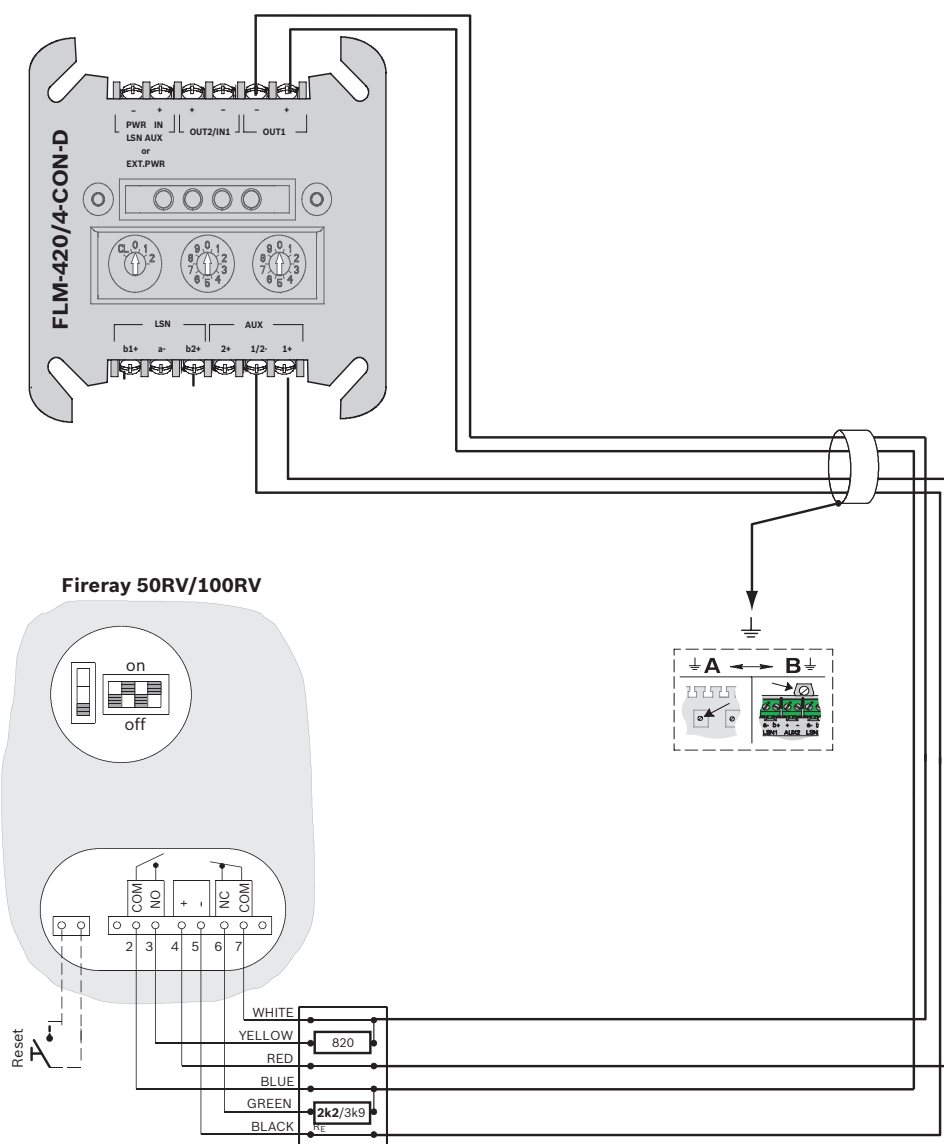


FCP-500





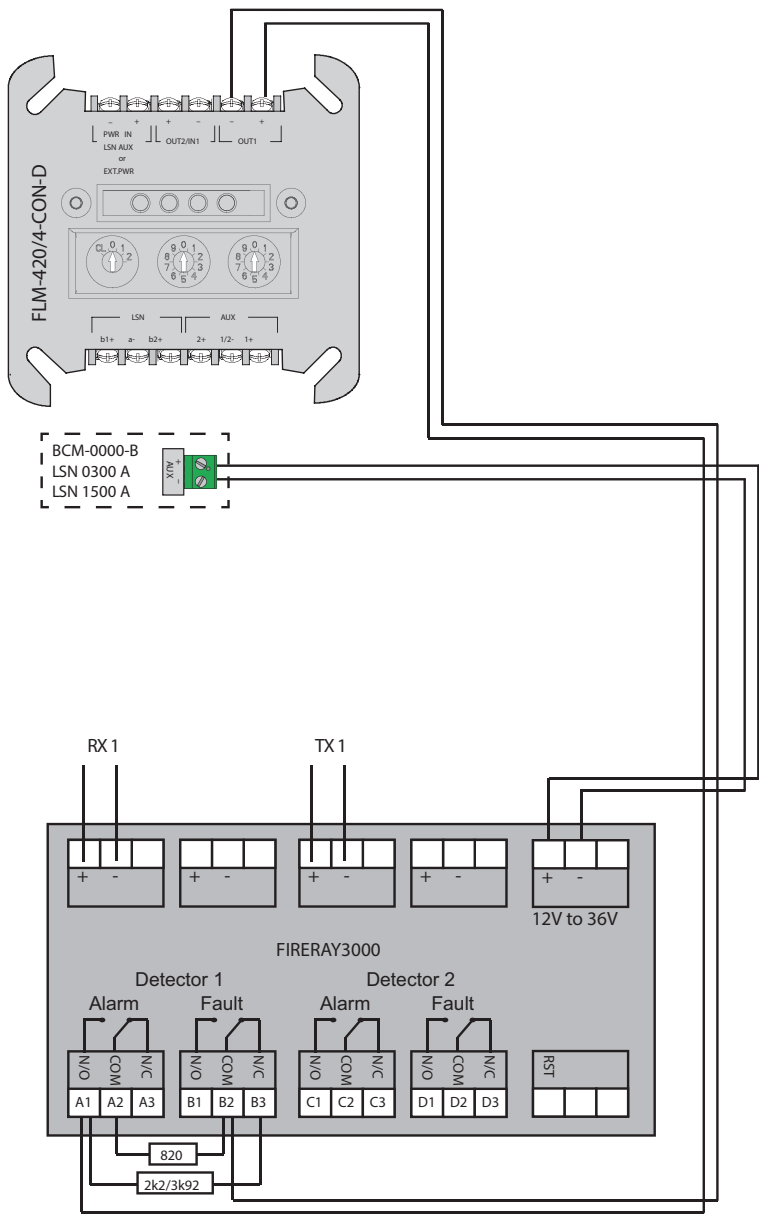
**Fireray 50RV  
Fireray 100RV**

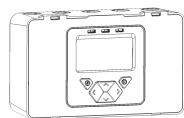




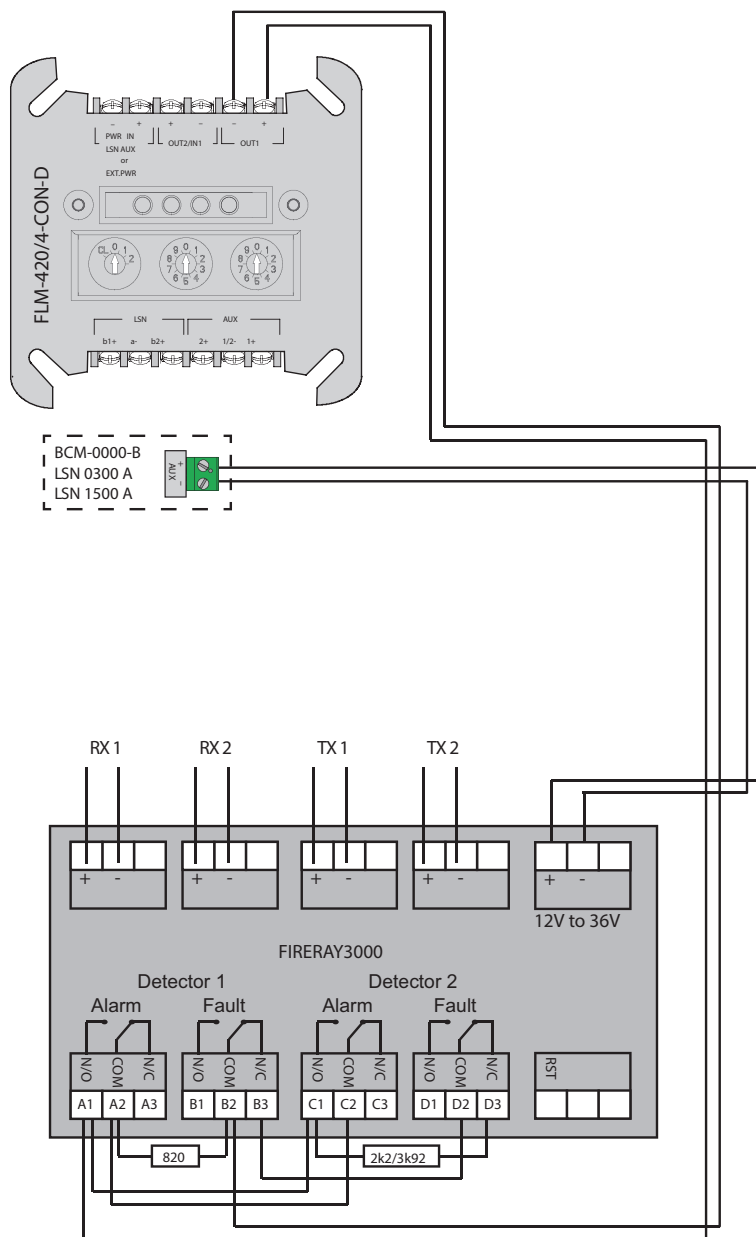
FIRERAY3000

1 x





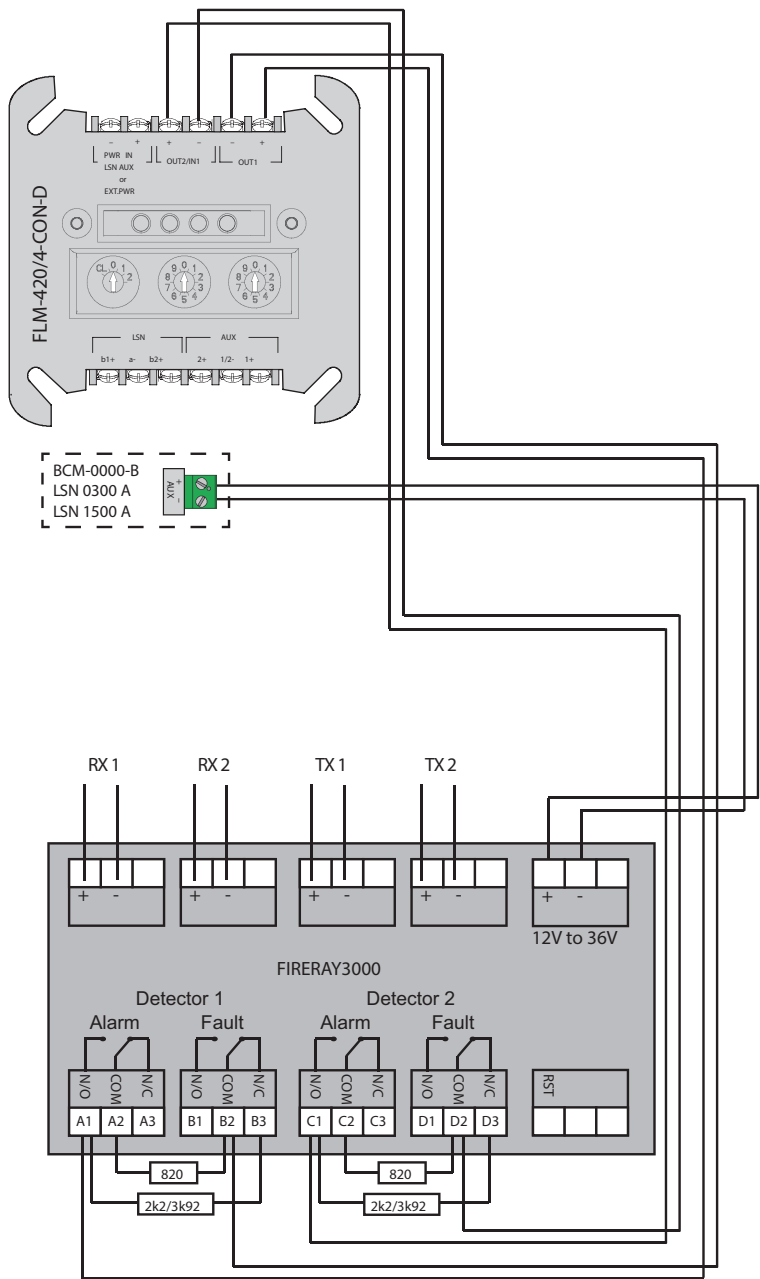
FIRERAY3000  
2 x I





FIRERAY3000

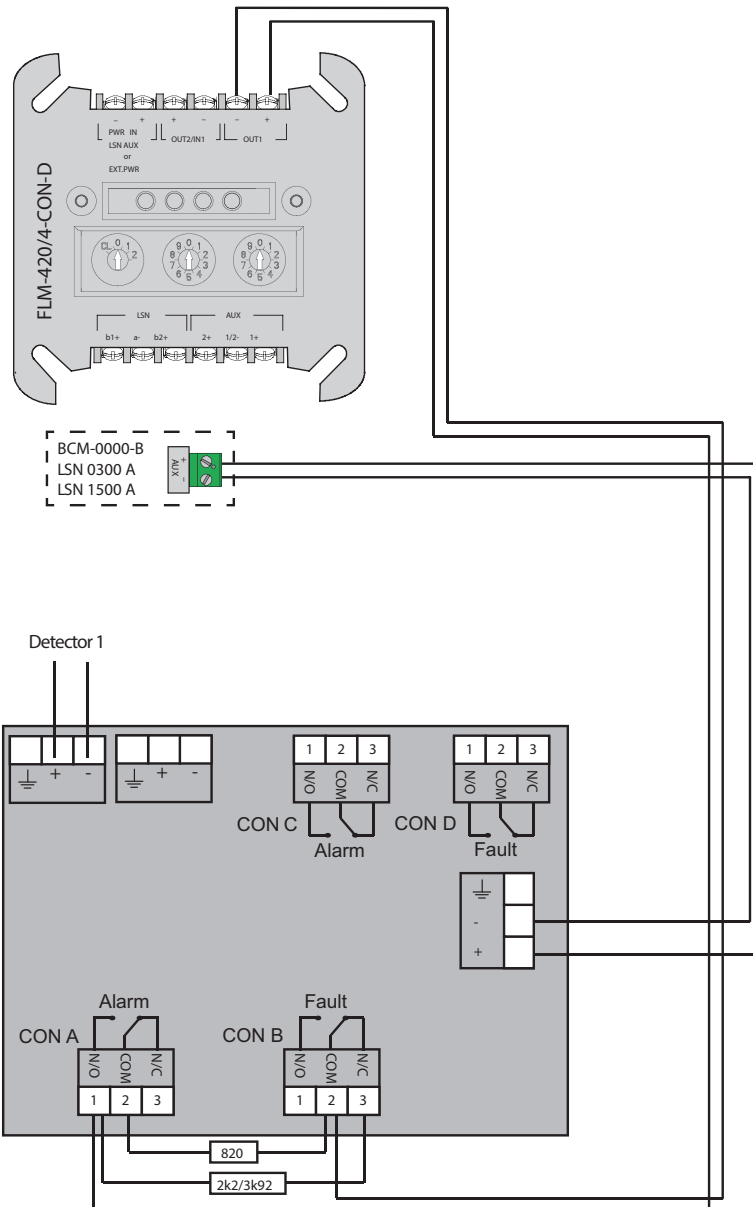
2 x  1+2





FIRERAY5000

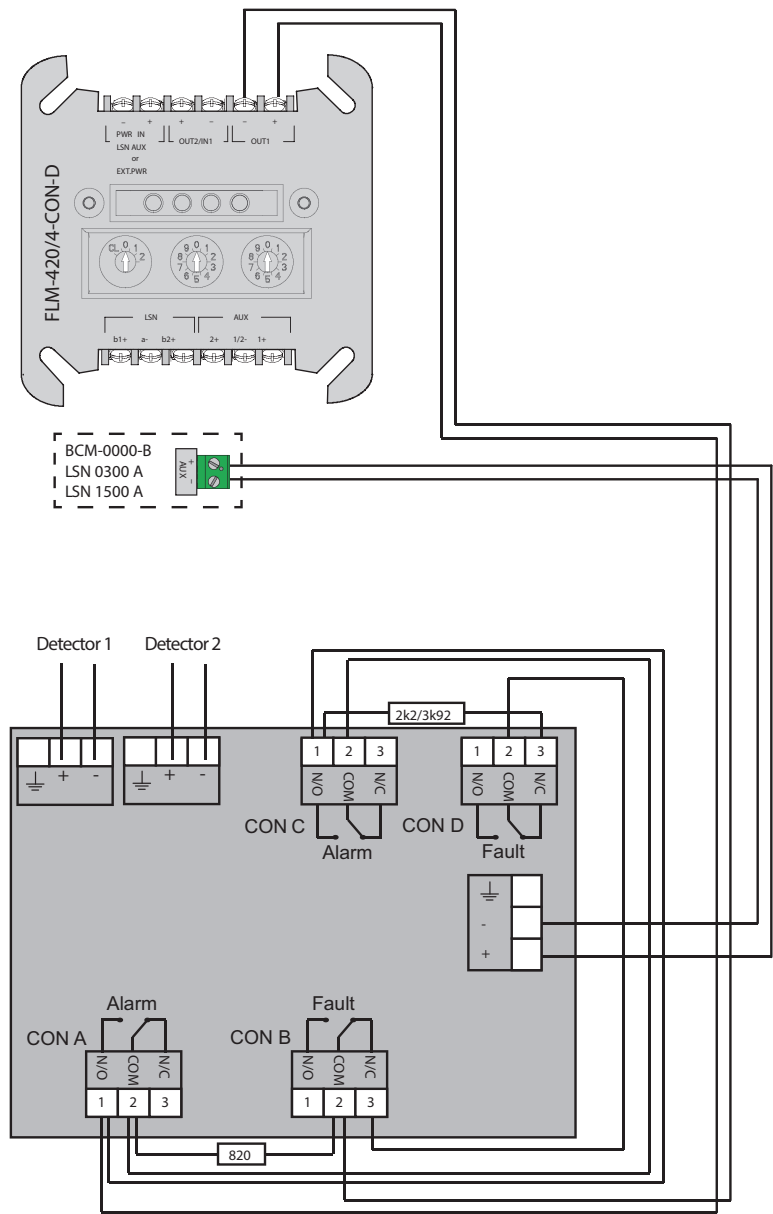
1 x





FIRERAY5000

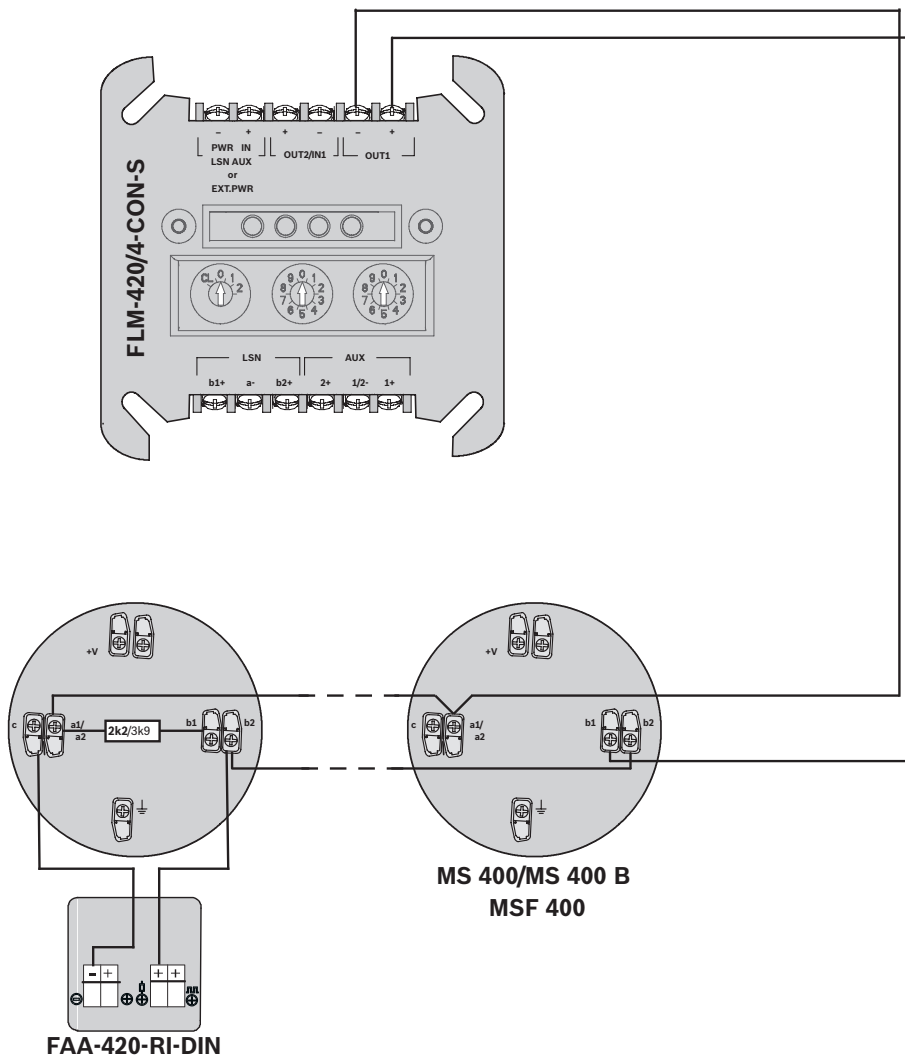
2 x OUT1

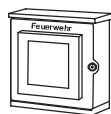
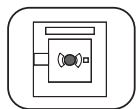




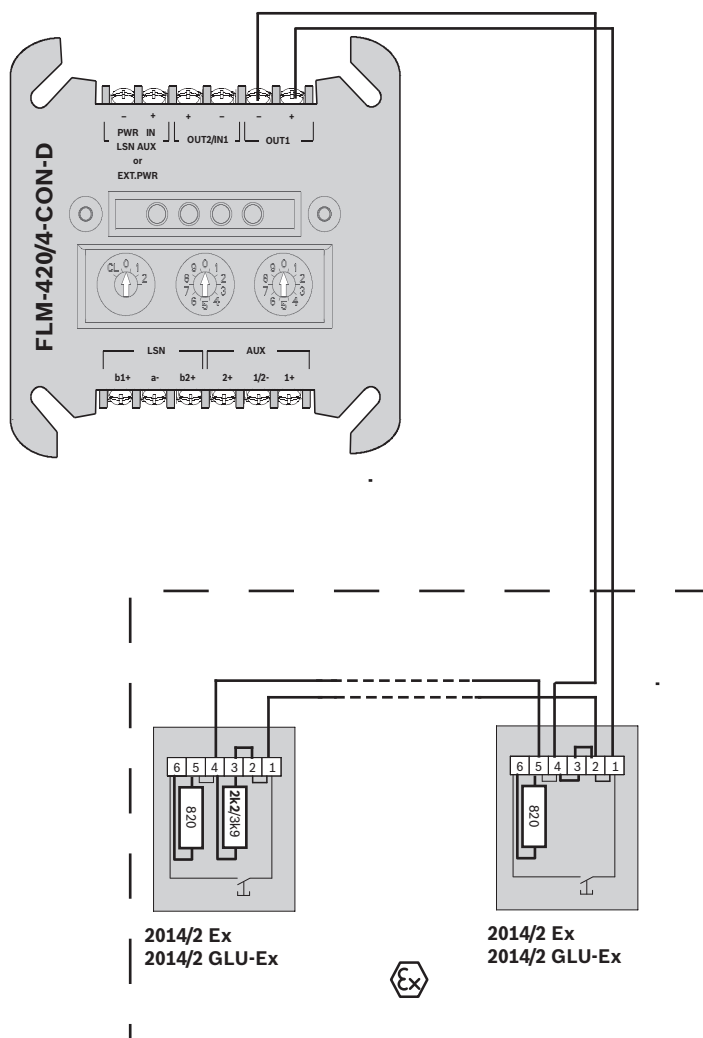
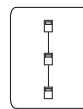


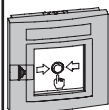
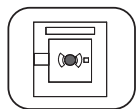
FAP-425-O/-O-R/-OT/-OT-R/-T-R  
FAP-425-DO-R/-DOT-R/-DOTC-R  
FCH-320-T320/-T320-R470/-T320-FSA  
FCP-O320/-O320-R470  
FCP-OC320/-OC320-R470  
FCP-OT320/-OT320-R470



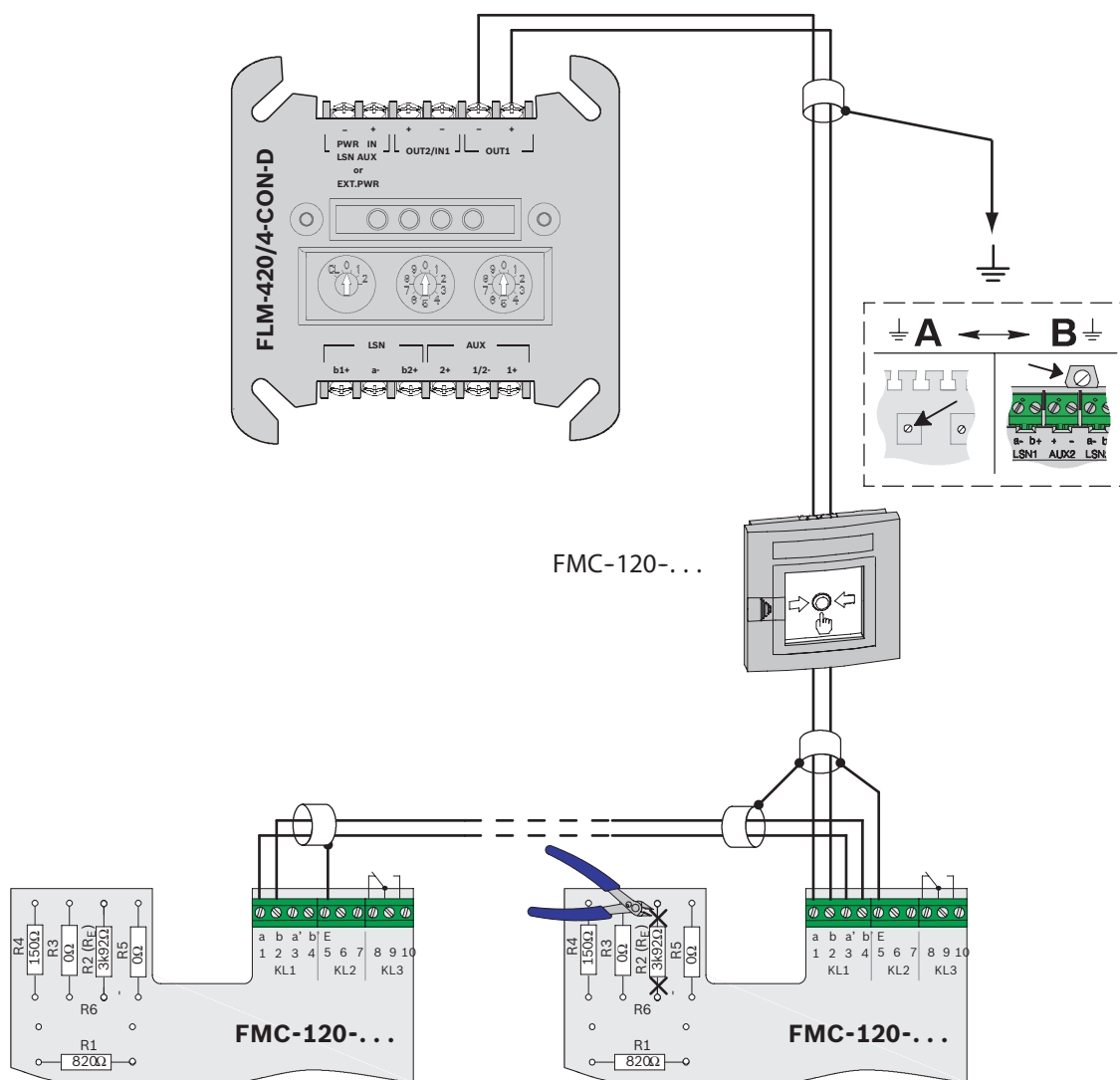
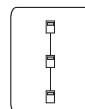


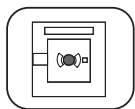
2014/2 Ex  
2014/2 GLU-Ex



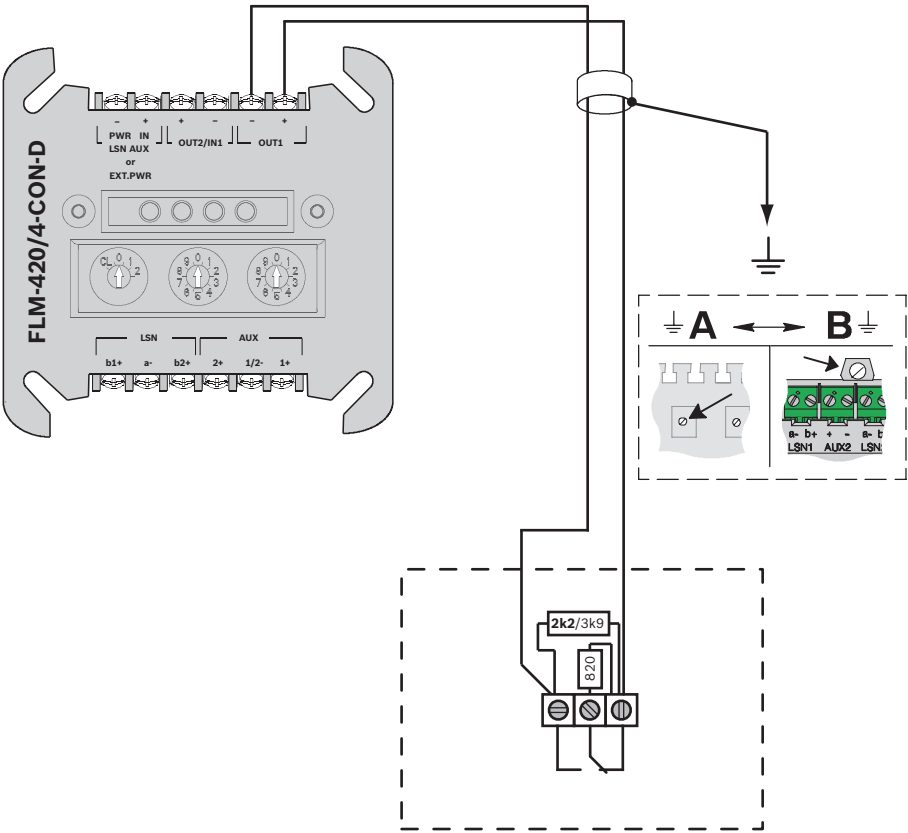
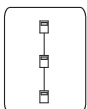


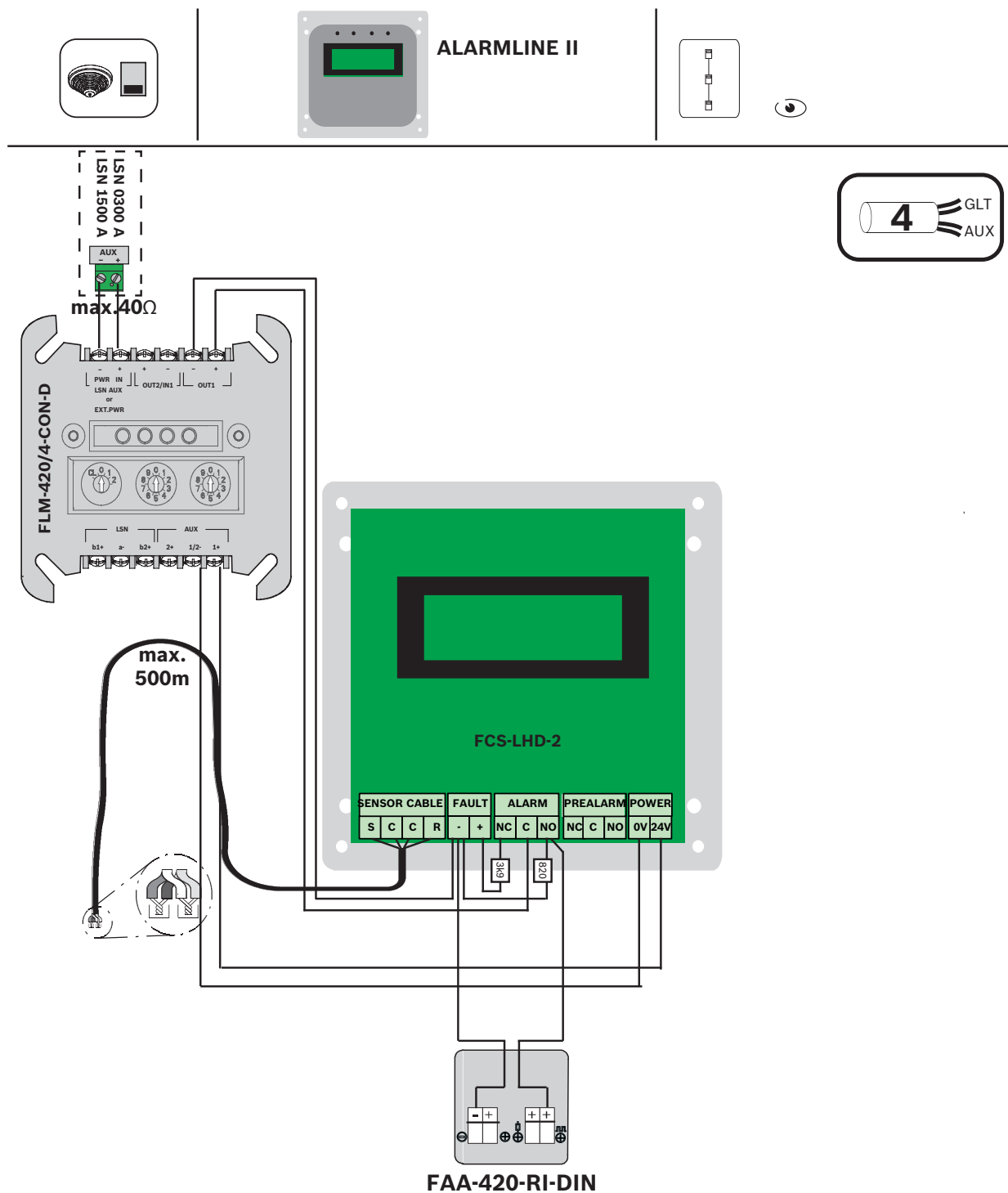
**FMC-120-DKM-G-R FMC-120-DKM-G-Y**  
**FMC-120-DKM-H-R FMC-120-EST-G-B**  
**FMC-120-DKM-G-B**  
**FMC-120-DKM-H-B**

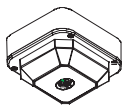




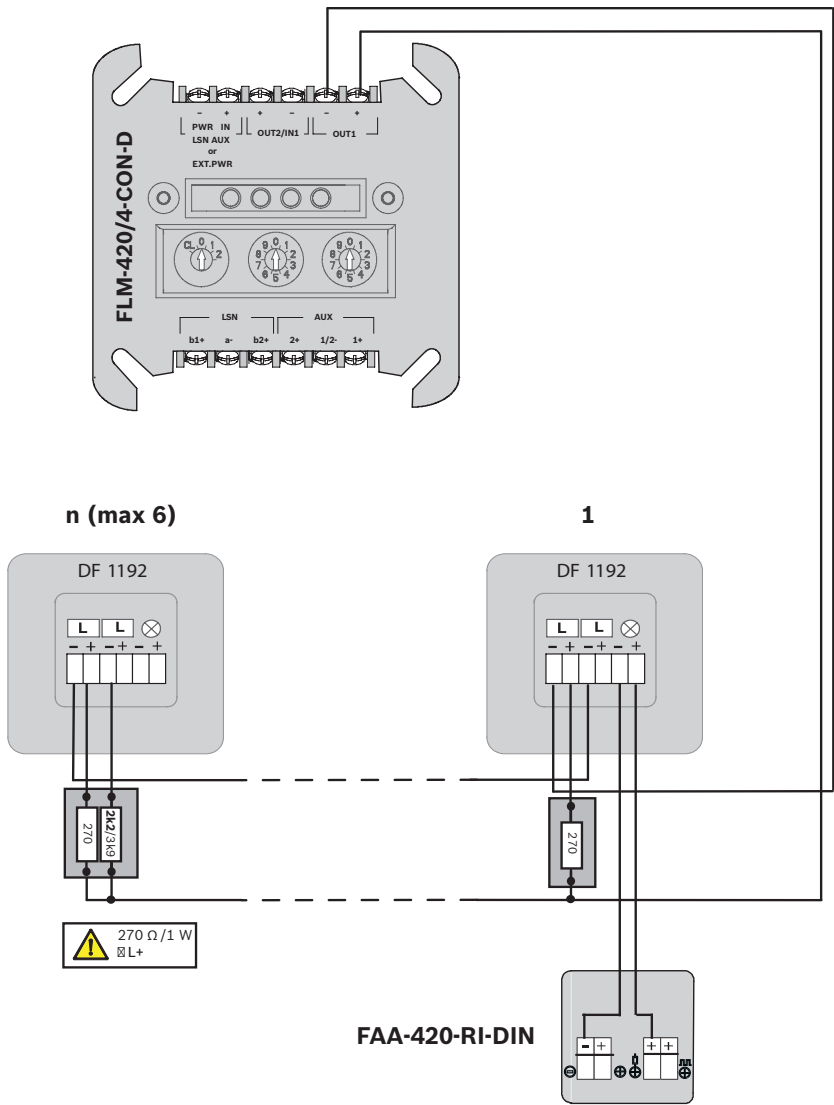
NO





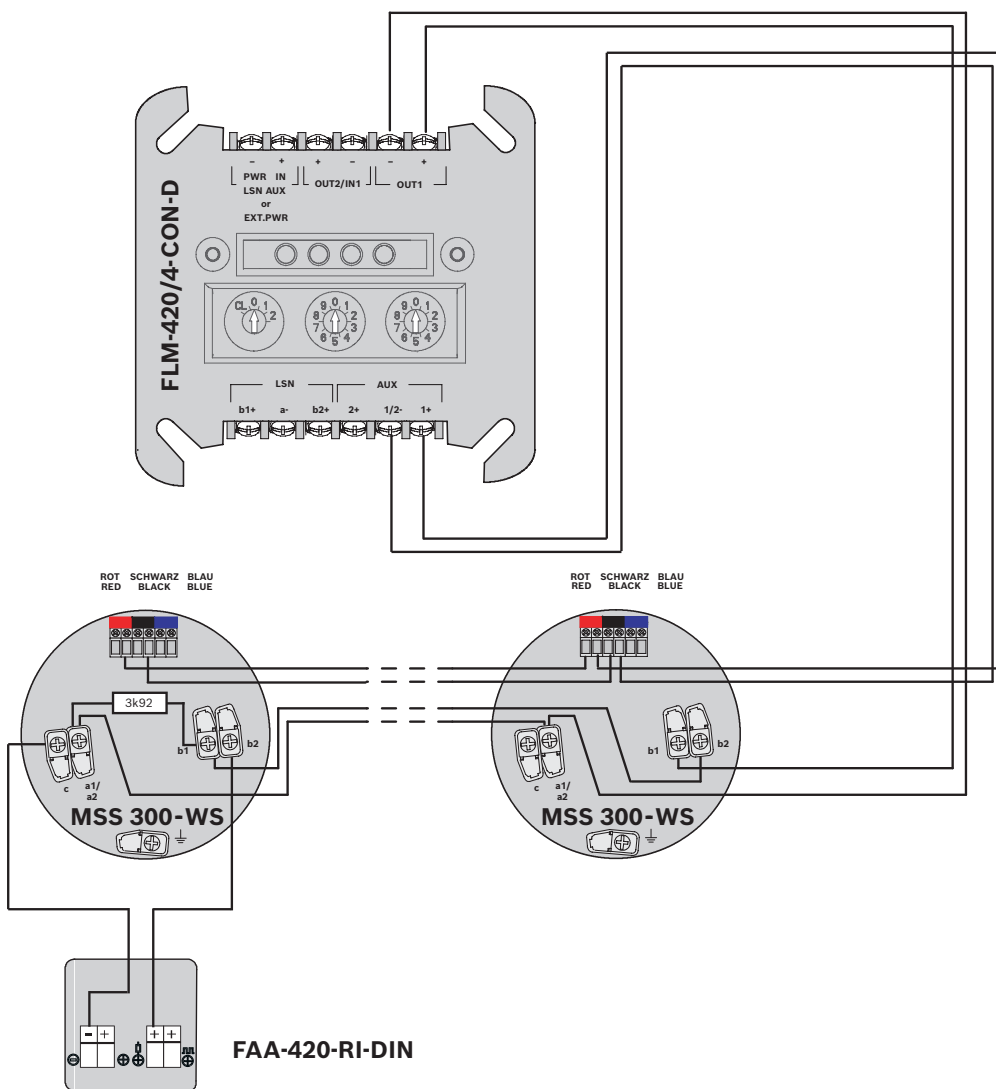


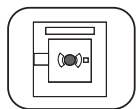
DF 1192



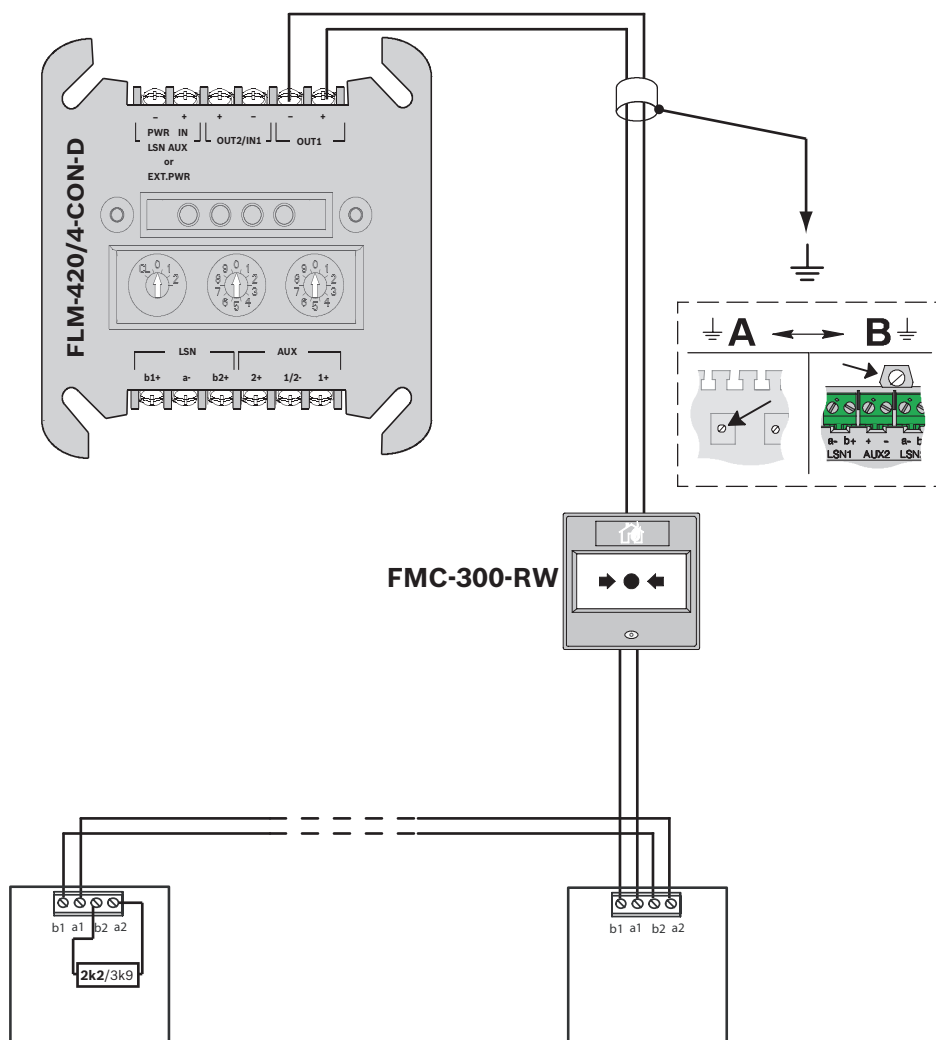
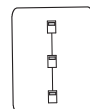


**MSS 300-WS**



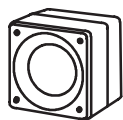


FMC-300-RW

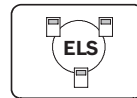




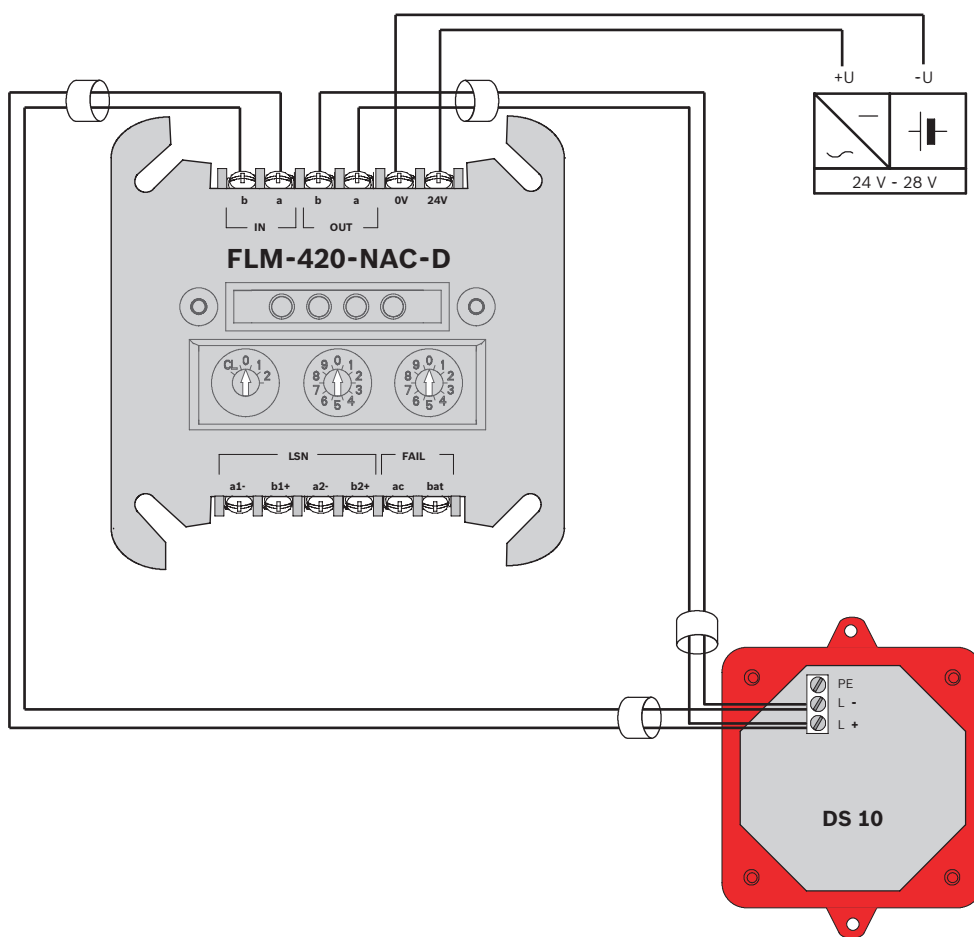
### 3.4.2 FLM-420-NAC-D/S

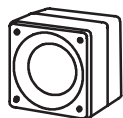


**DS 10**

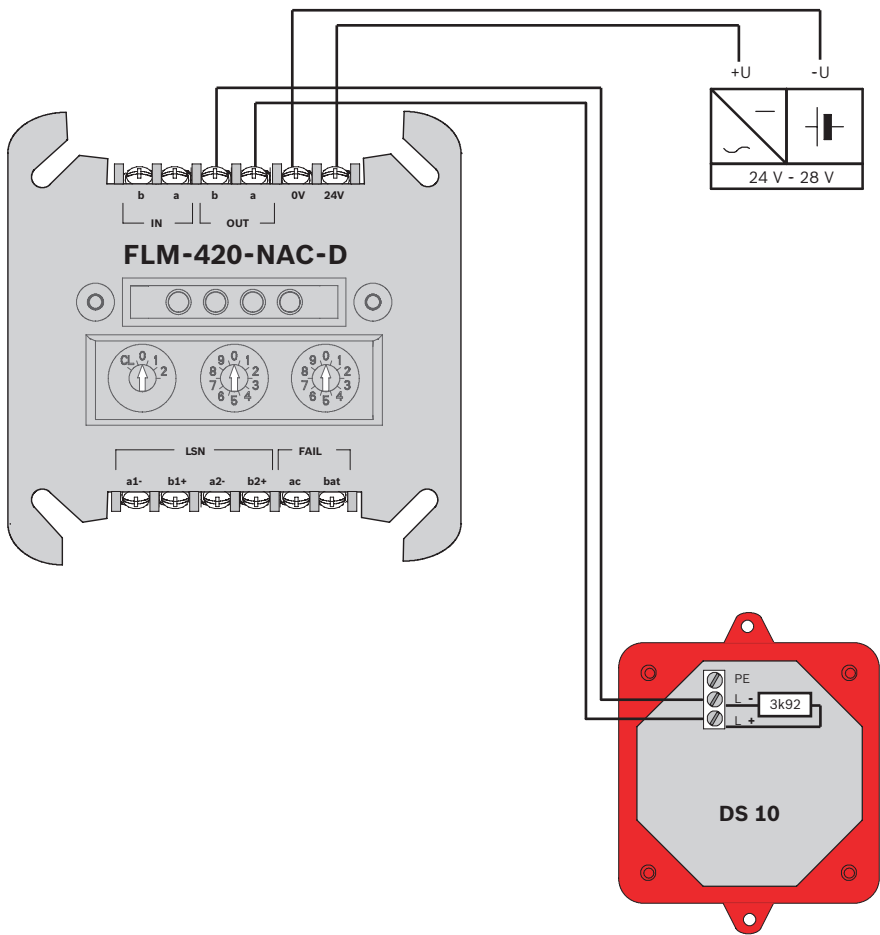
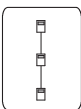


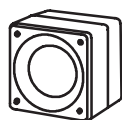
**VdS 2489**



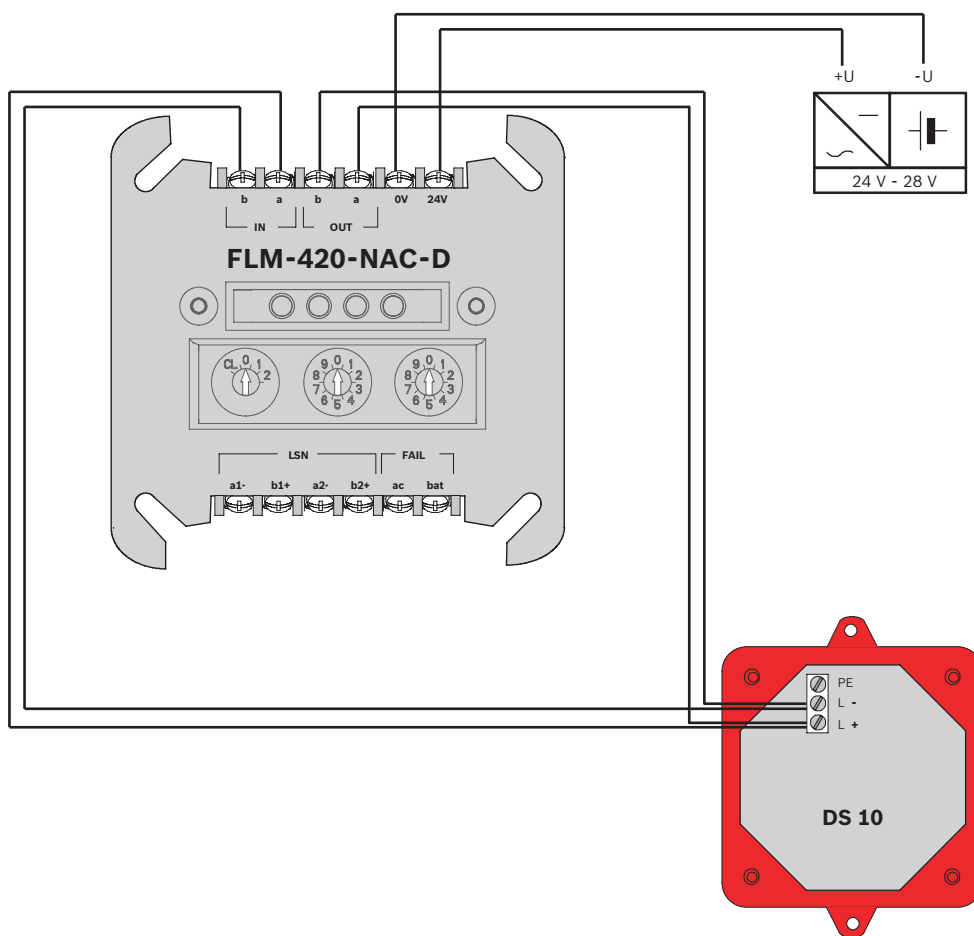
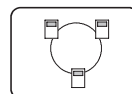


DS 10



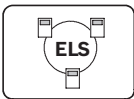


**DS 10**

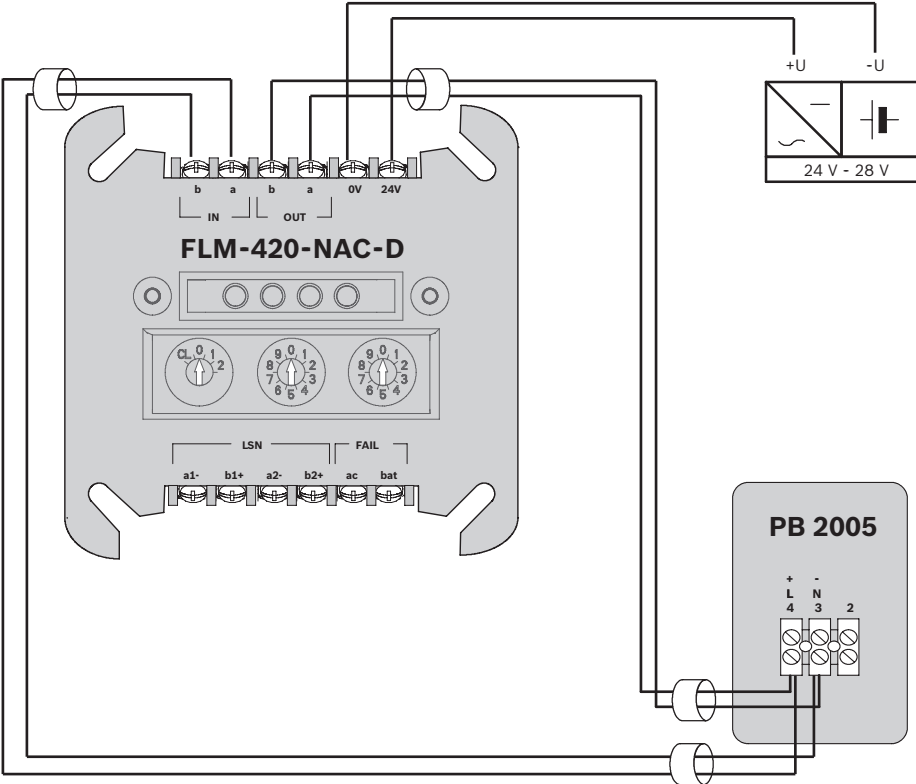




**PB 2005**

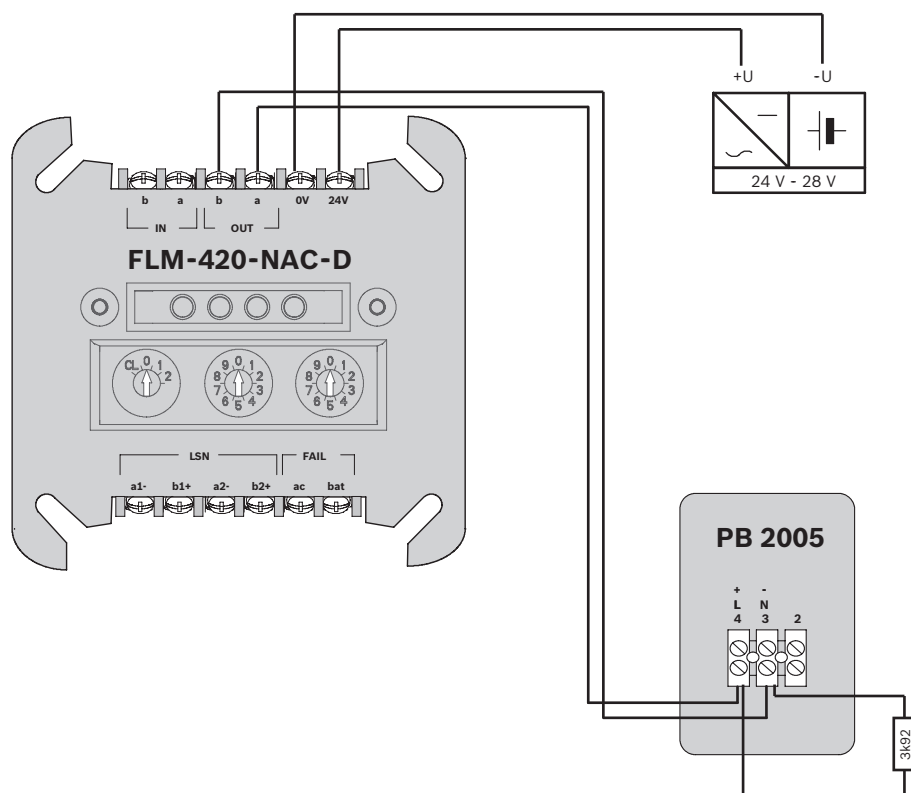
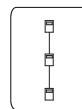


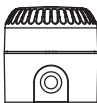
**VdS 2489**



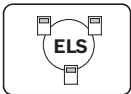


**PB 2005**

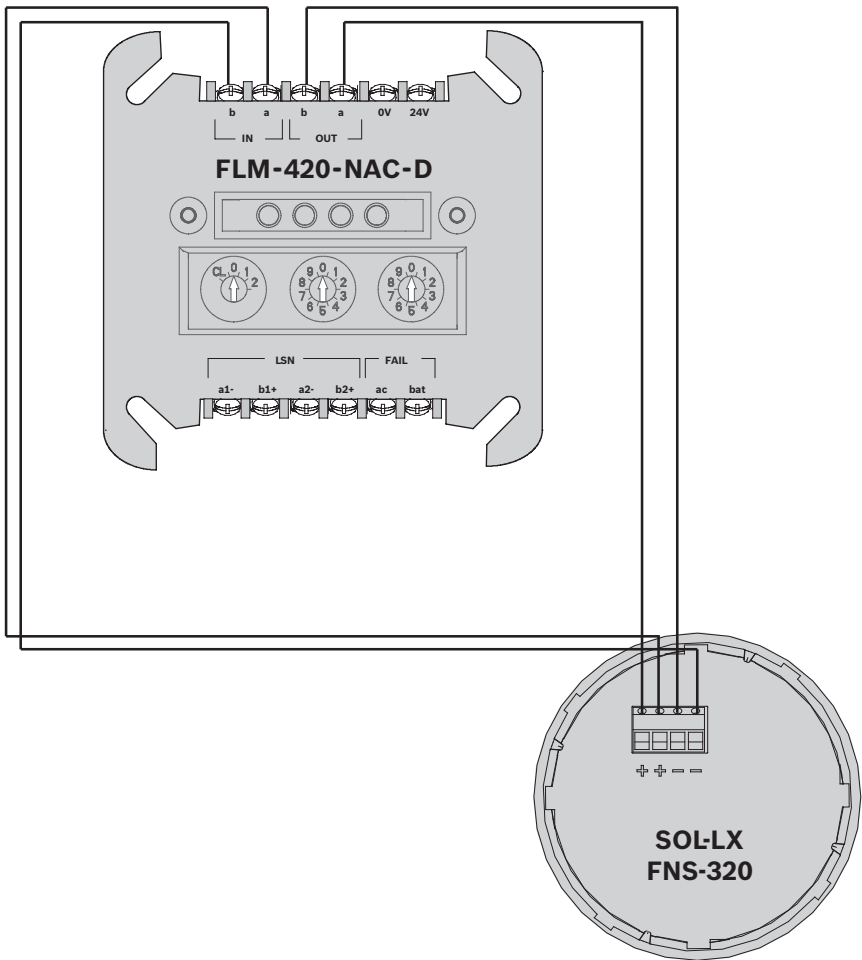


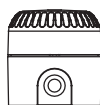


**SOL-LX  
FNS-320**

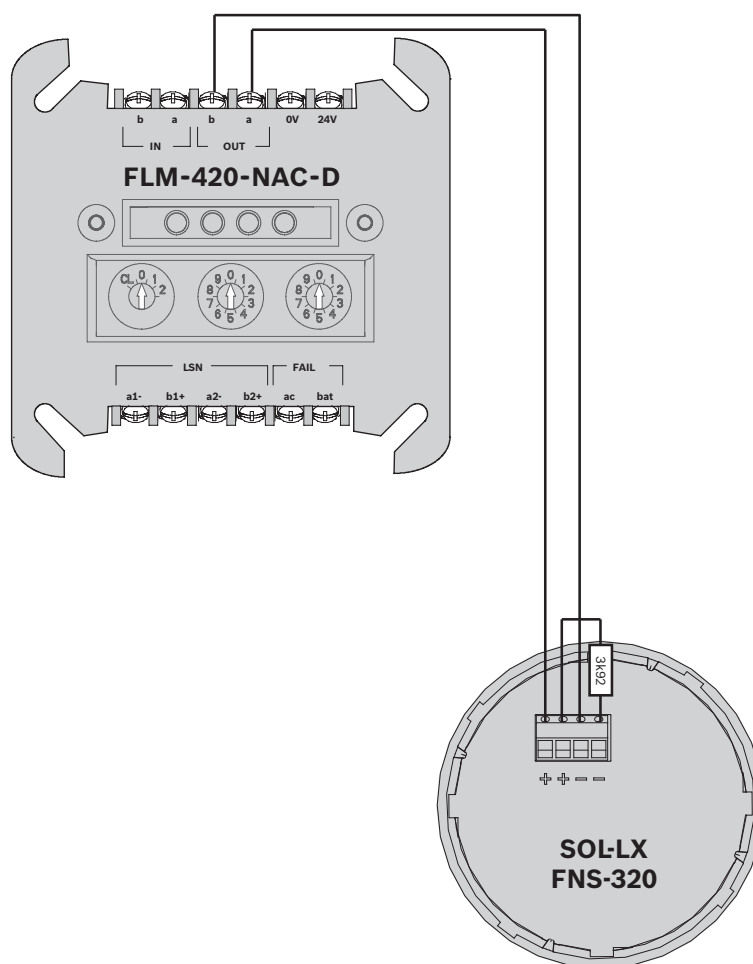
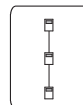


**VdS 2489**



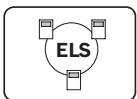


**SOL-LX  
FNS-320**

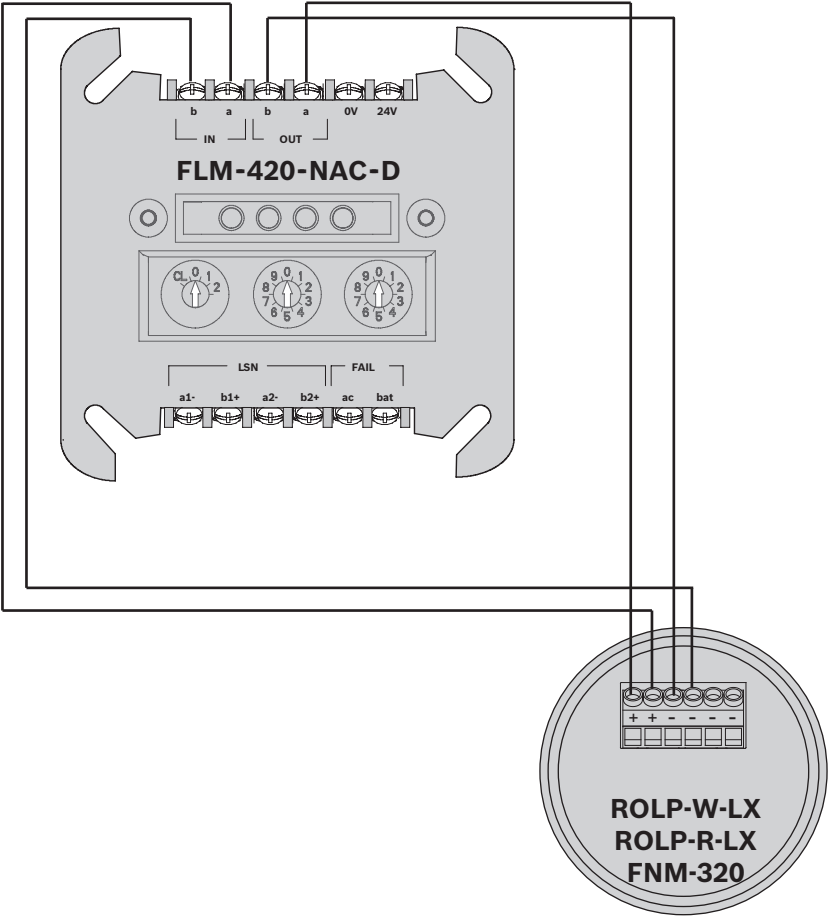




**ROLP-W-LX**  
**ROLP-R-LX**  
**FNM-320**



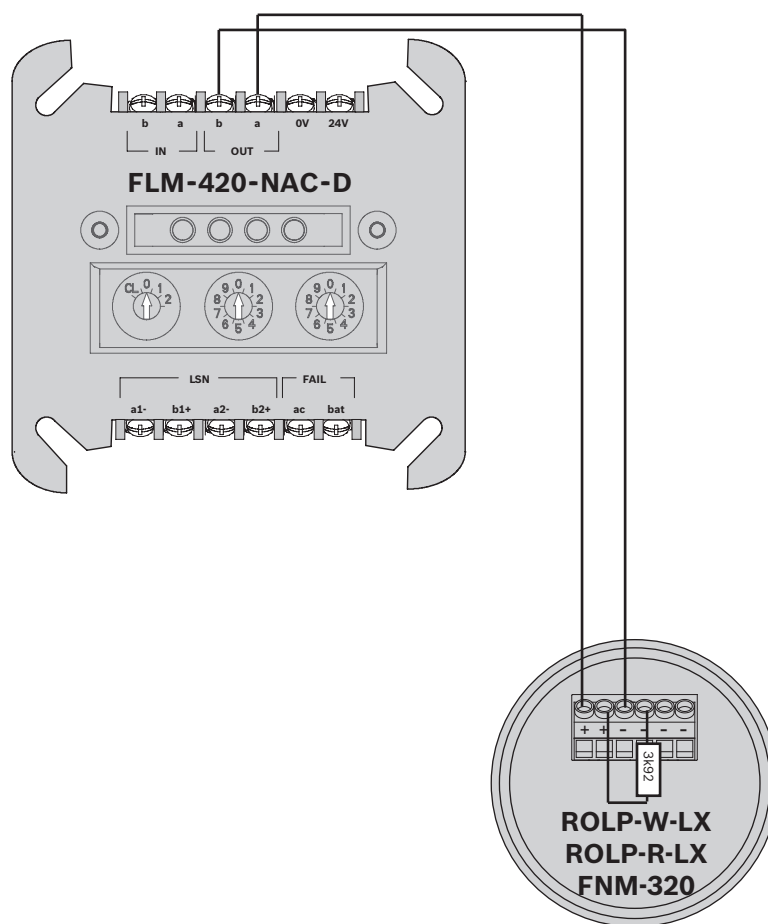
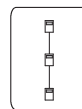
**VdS 2489**

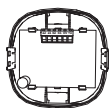




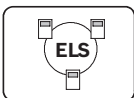


**ROLP-W-LX**  
**ROLP-R-LX**  
**FNM-320**

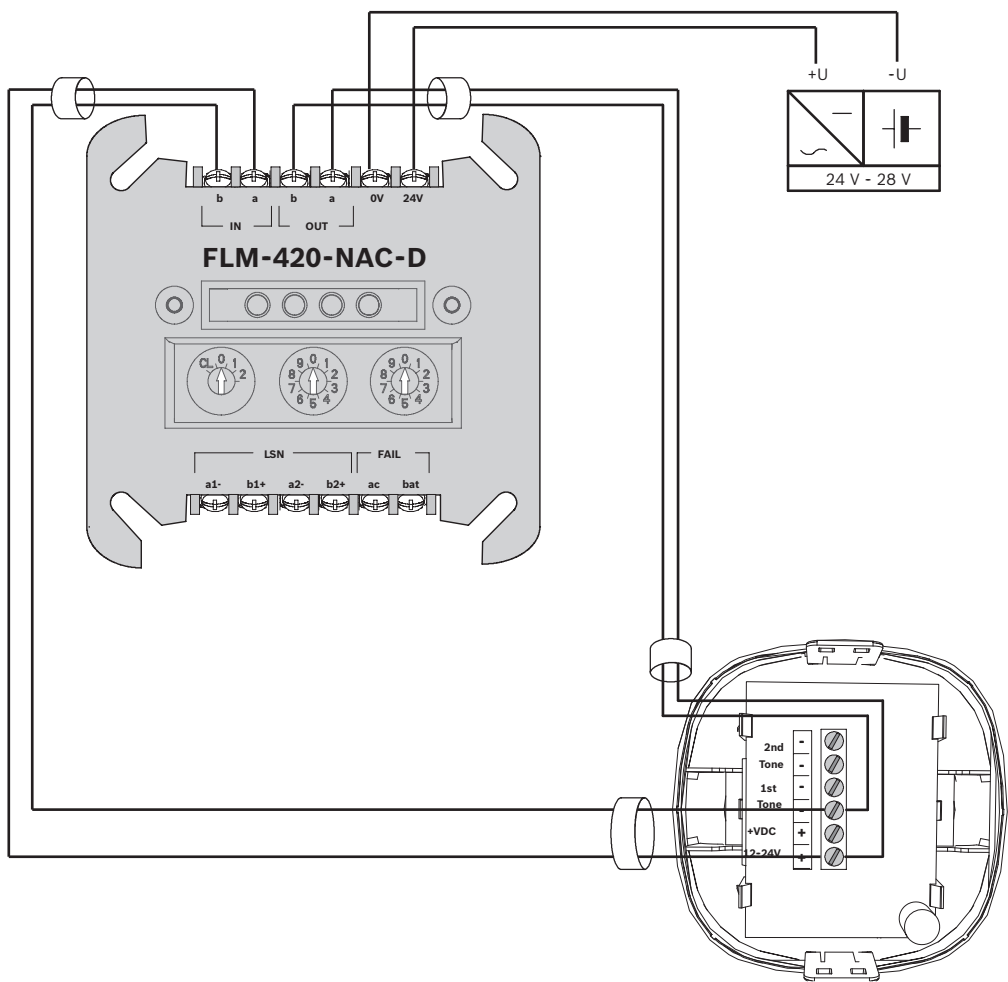


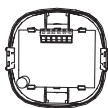


FNM-320V-A / -B

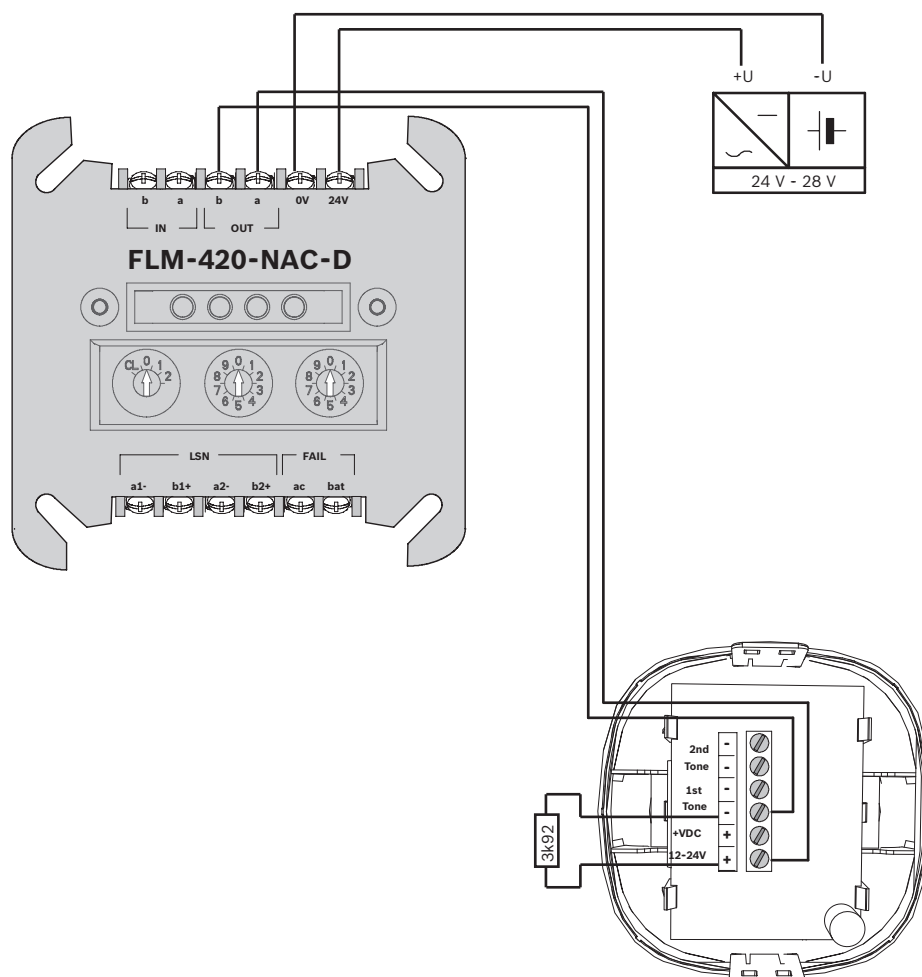
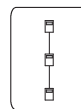


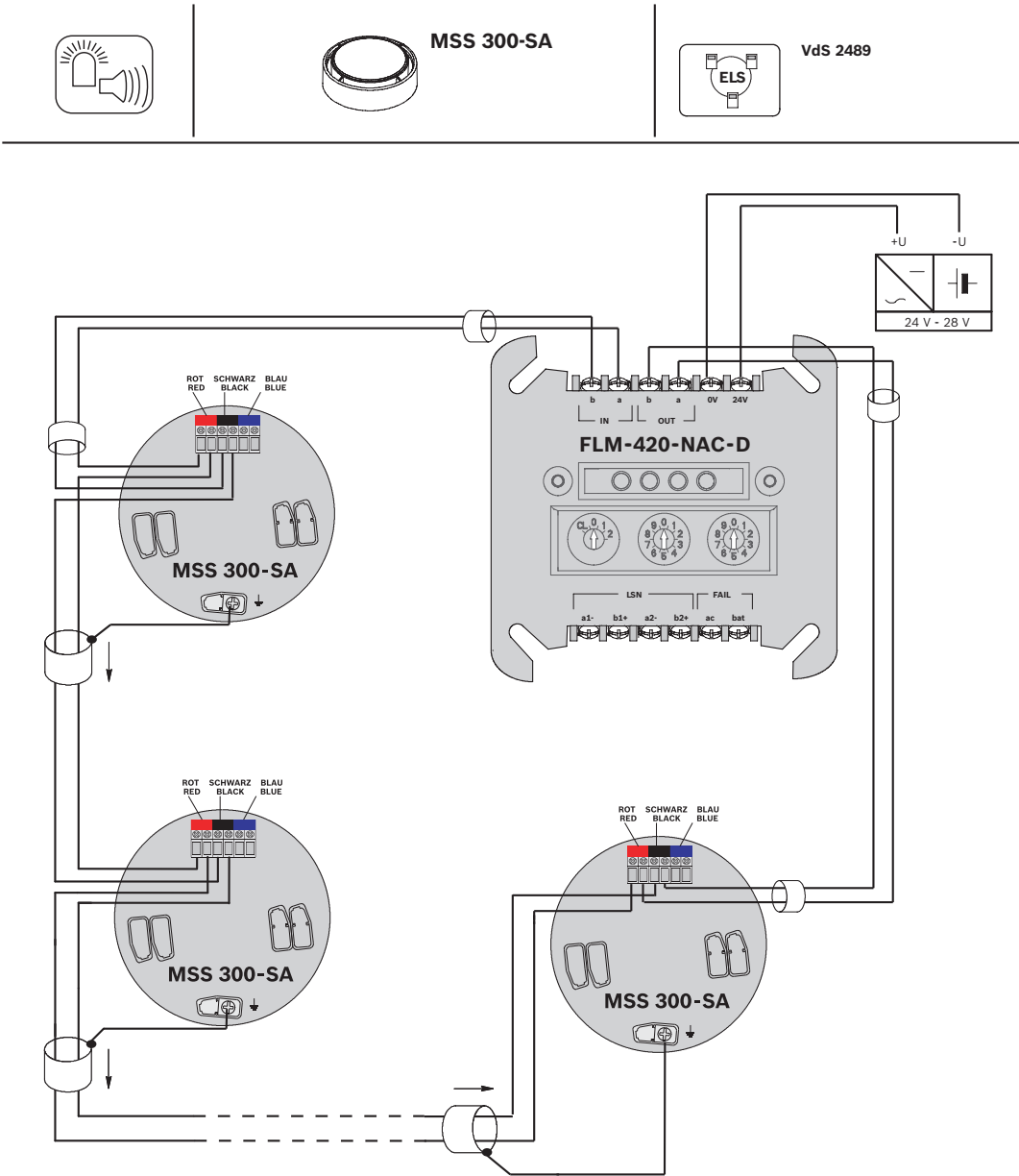
VdS 2489

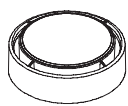




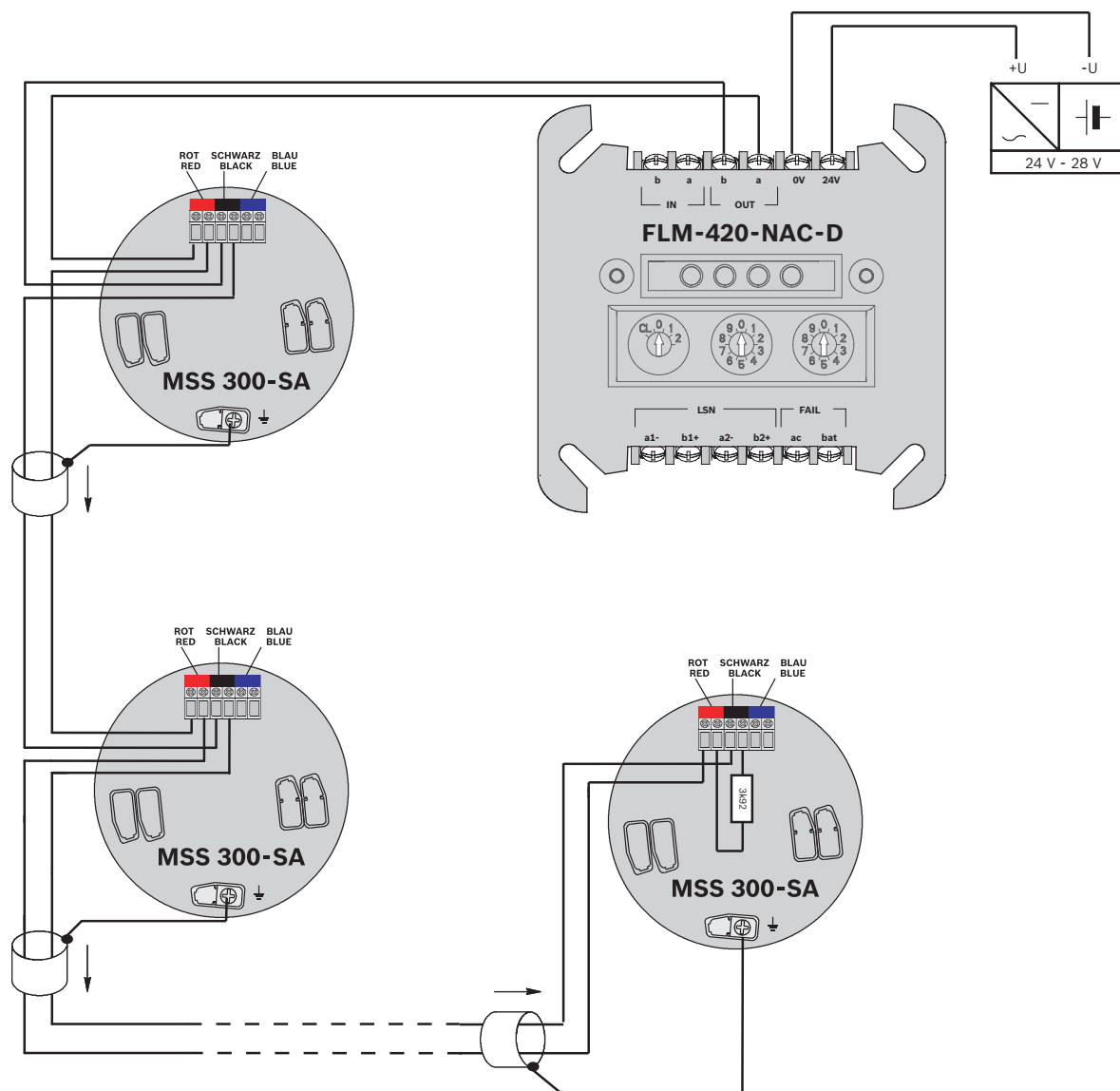
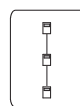
**FNM-320V-A / -B**







**MSS 300-SA**

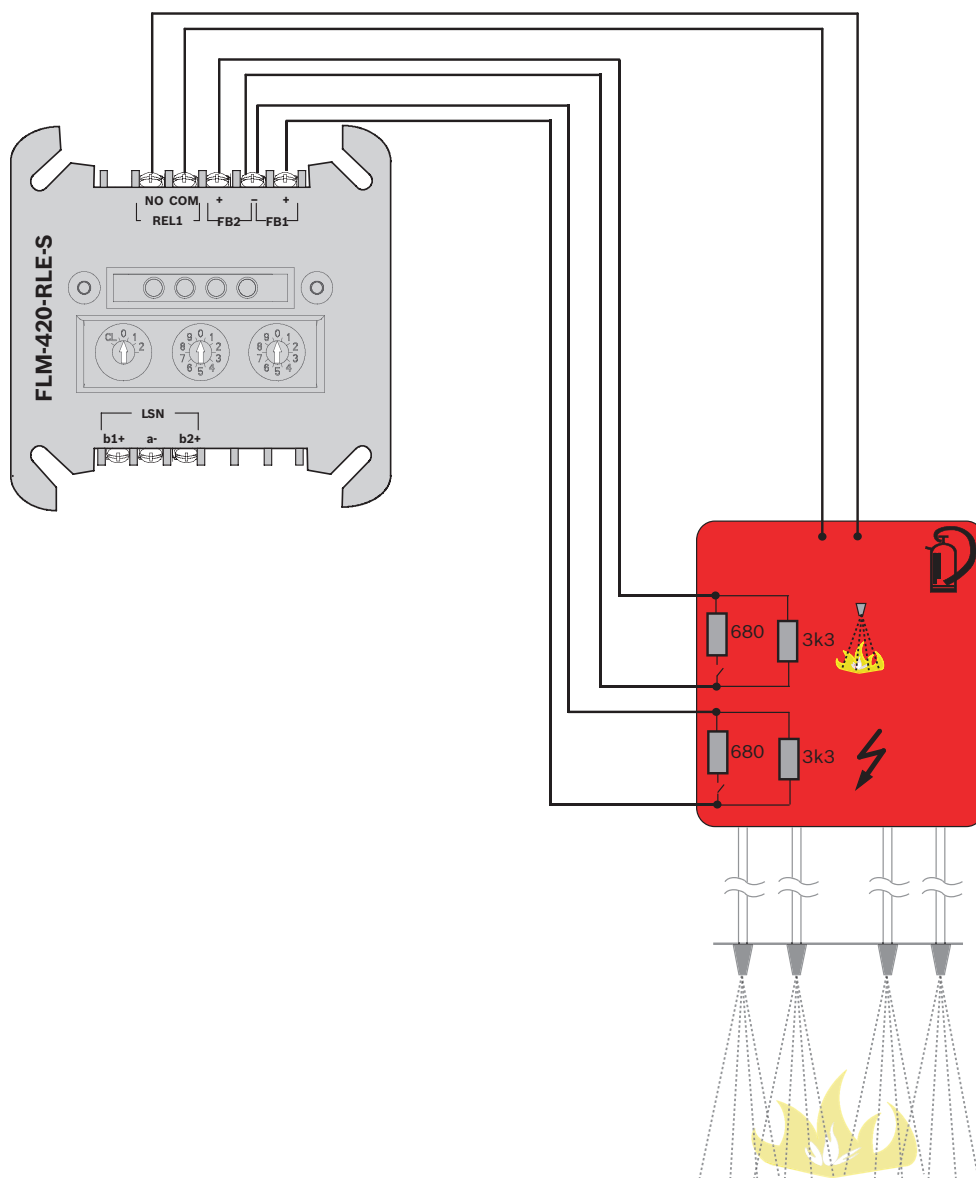


## 3.4.3

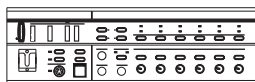
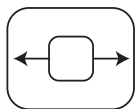
## FLM-420-RLE-S



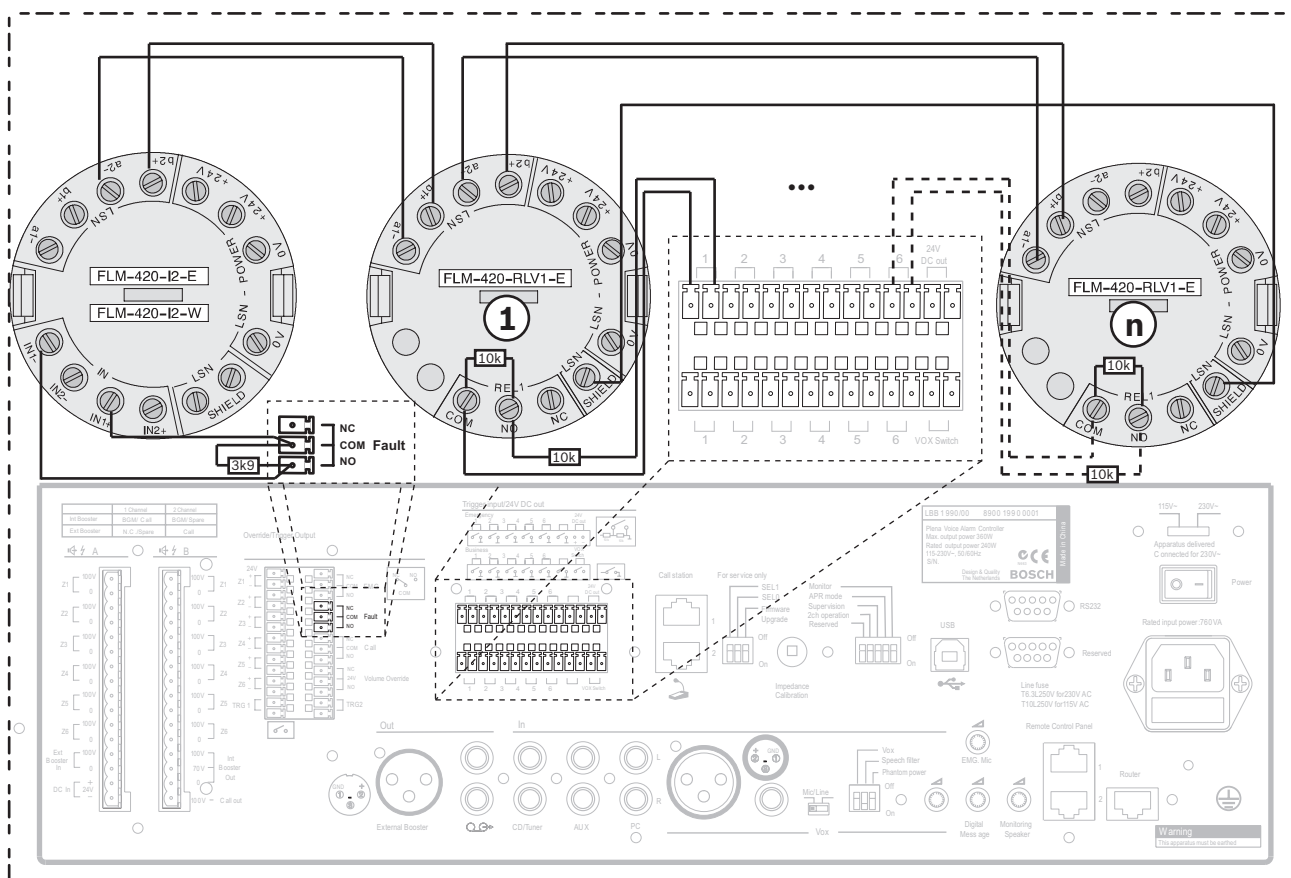
VdS 2496:2005-09



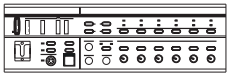
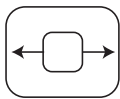
### 3.4.4 FLM-420-RLV1-E



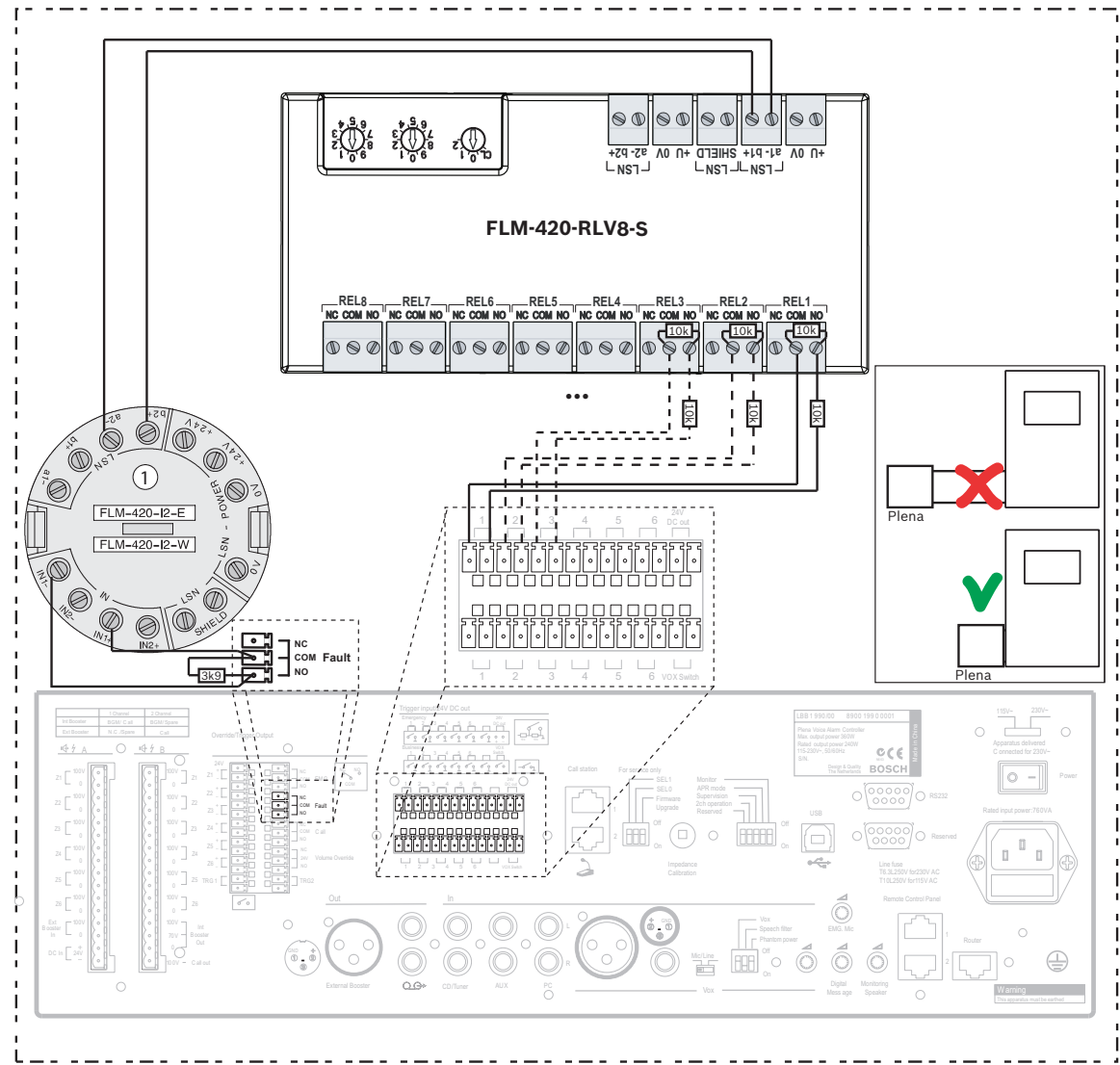
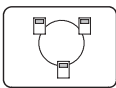
Plena



3.4.5 FLM-420-RLV8-S



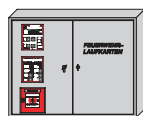
Plena





### 3.4.6

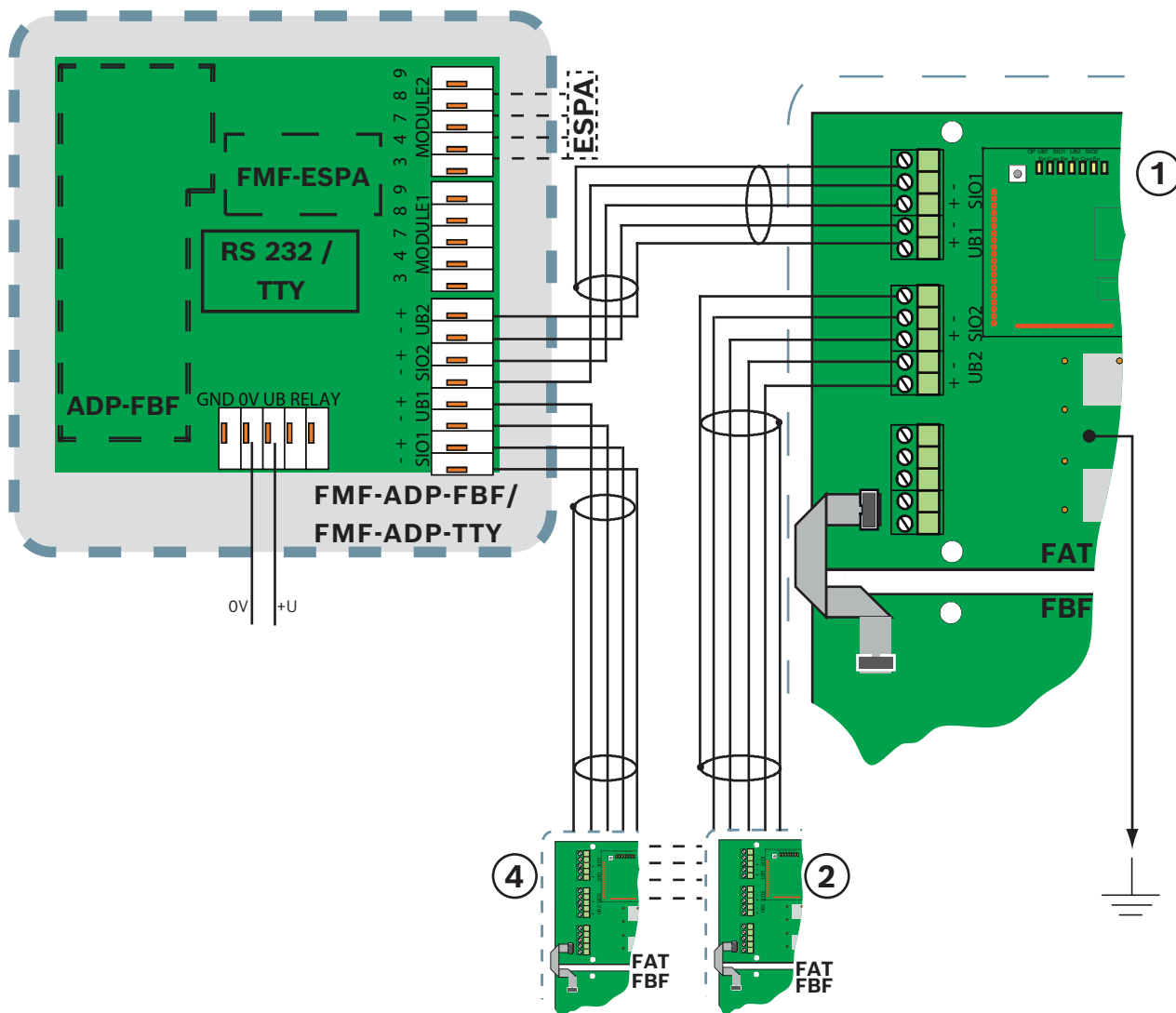
### FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS VdS 2489

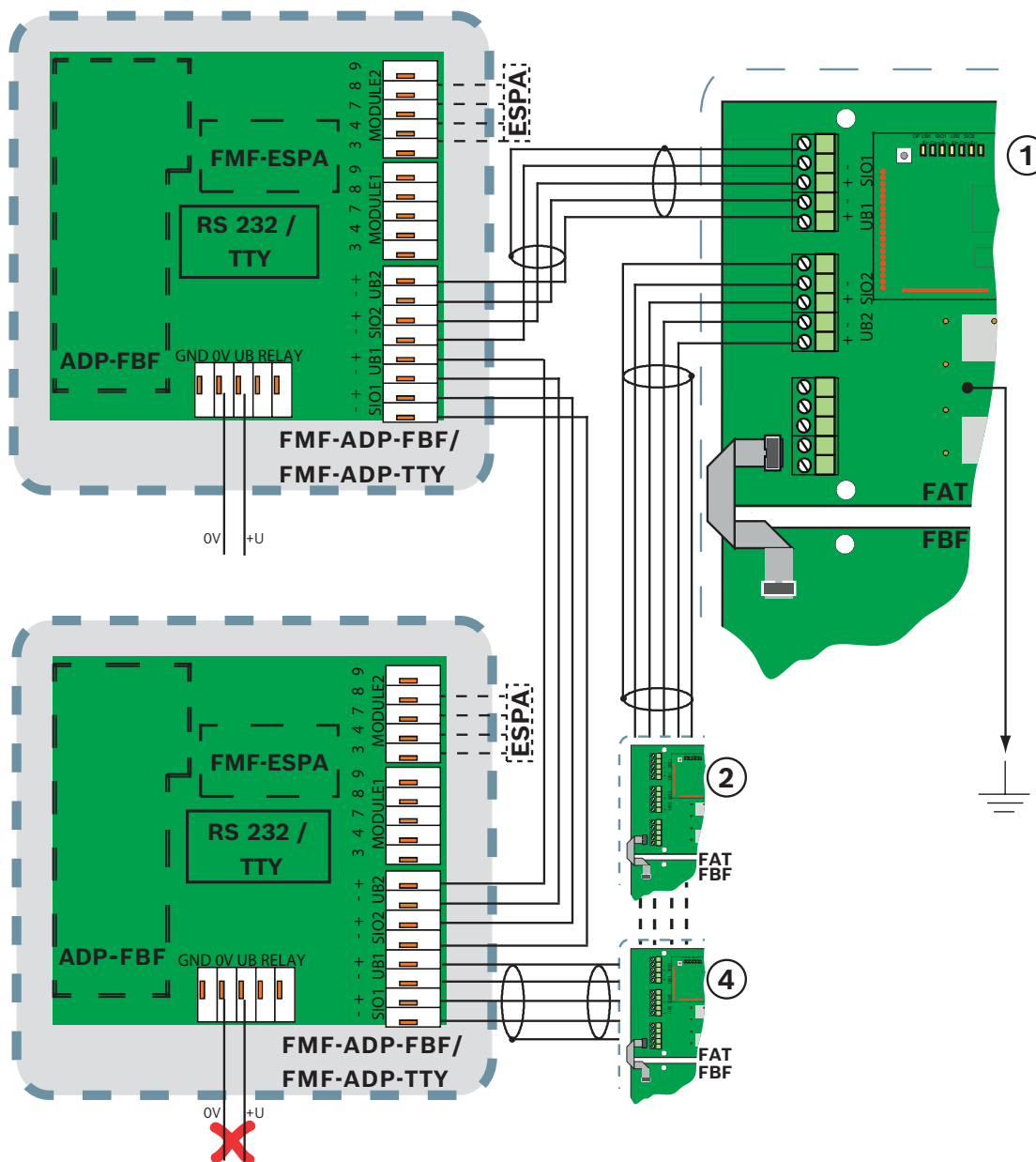




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



## 3.5

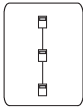
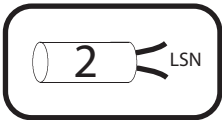
## EOL



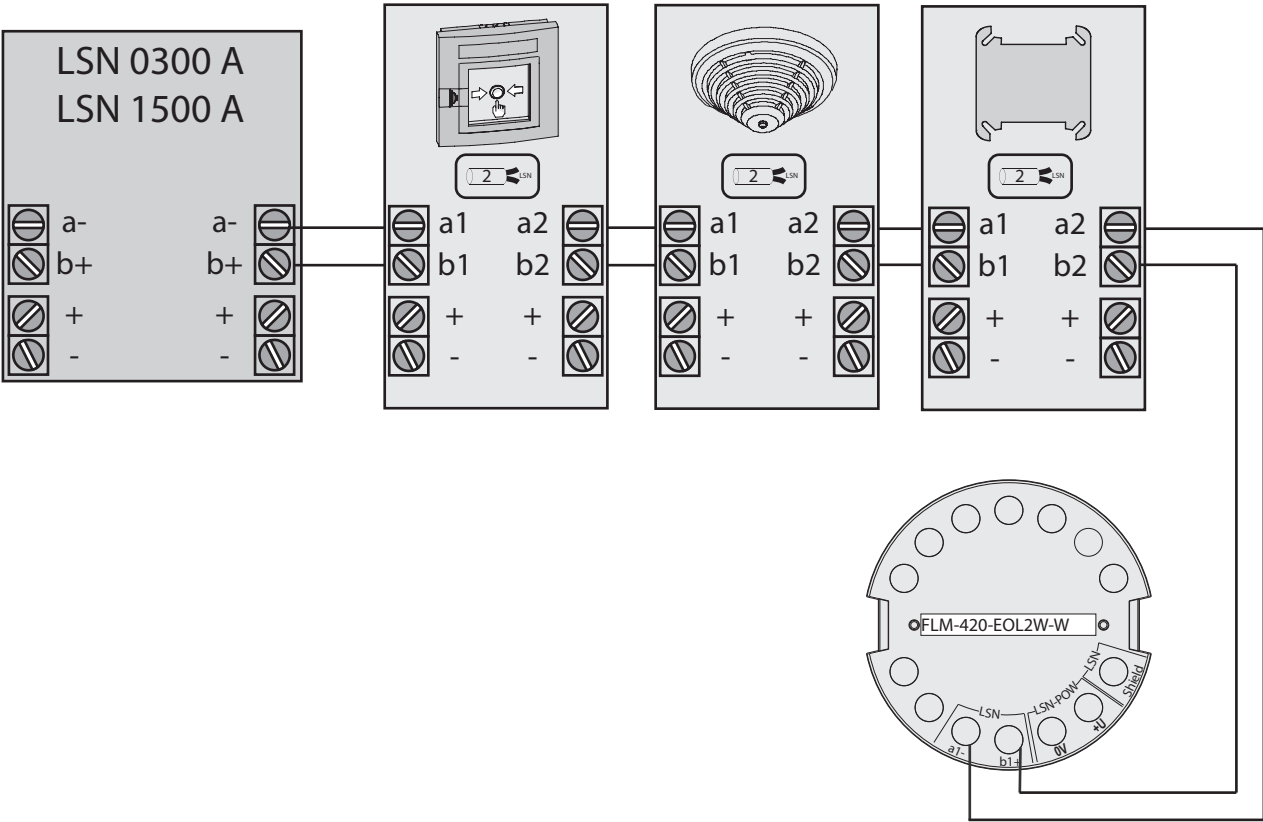
*LSN 0300 A, σελίδα 182*

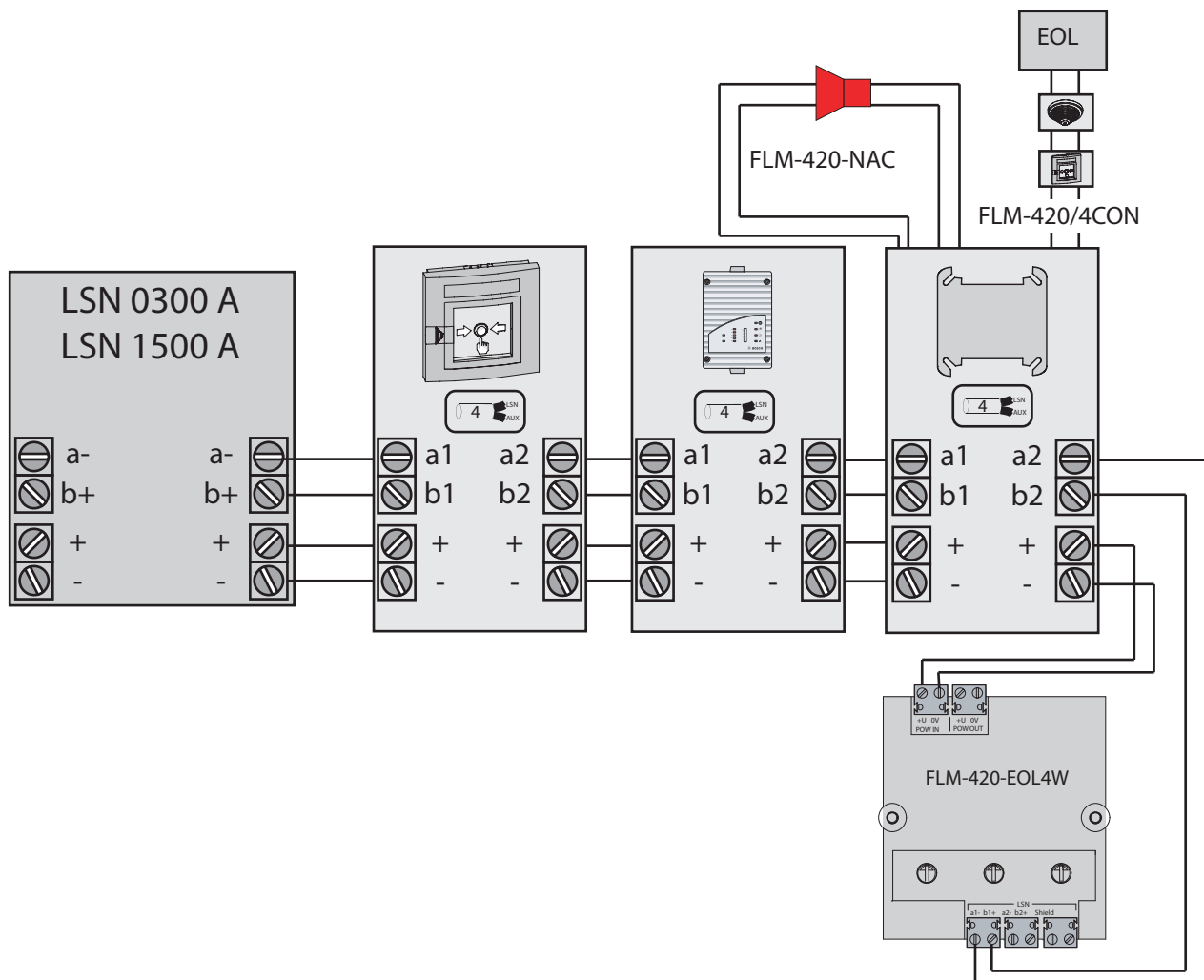
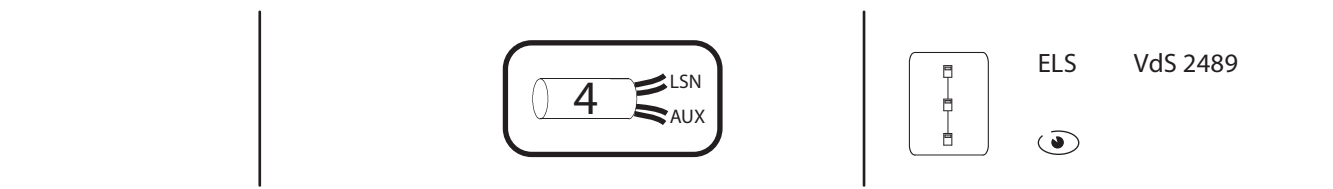
*FLM-420/4-CON-S/D, σελίδα 224*

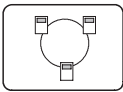
3.5.1 LSN 0300 A



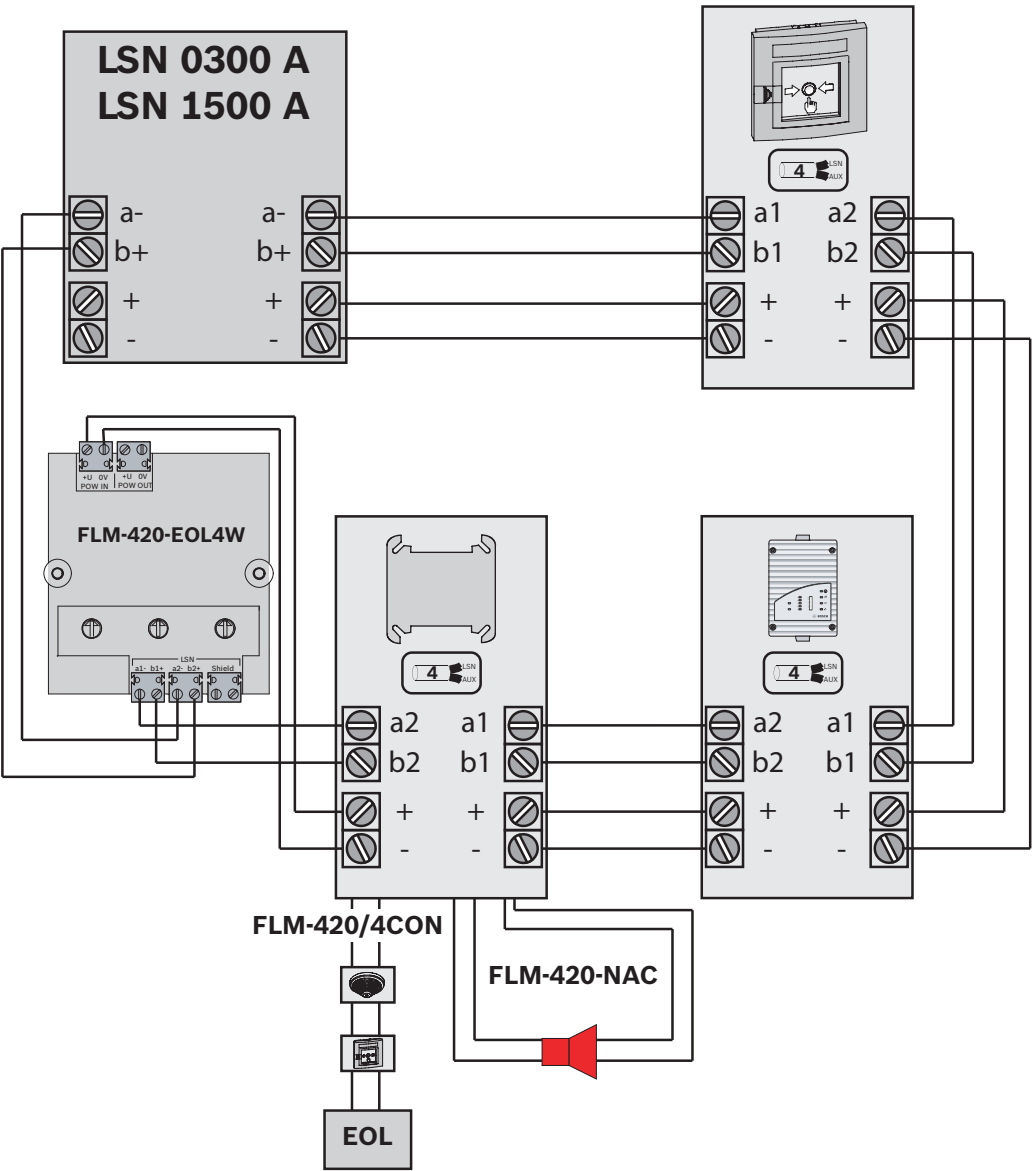
ELS VdS 2489







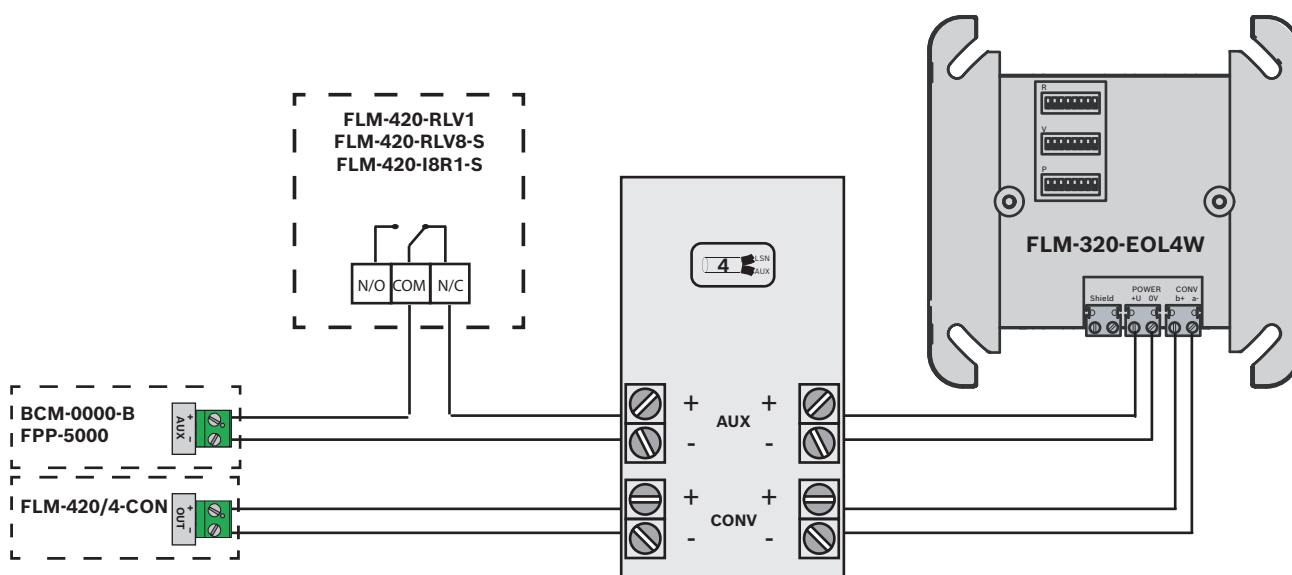
ELS VdS 2489

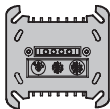
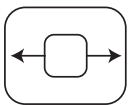




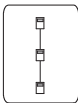
**Reset action**

**ELS VdS 2489**

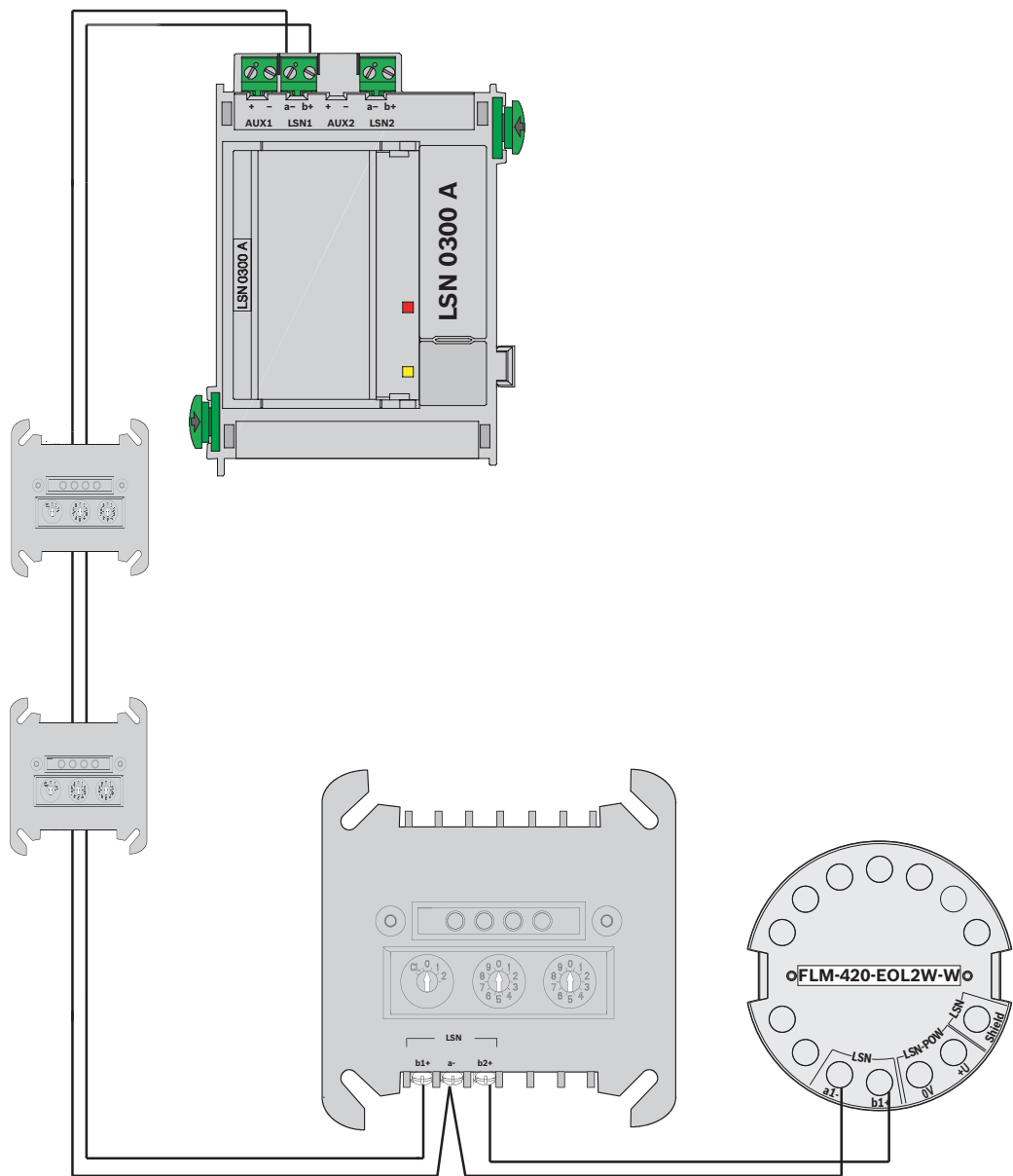




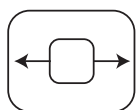
FLM-420-I2-D  
FLM-420-O1I1-D  
FLM-420-RHV-D/S  
FLM-420-RLV1-D



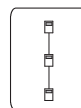
ELS VdS 2489



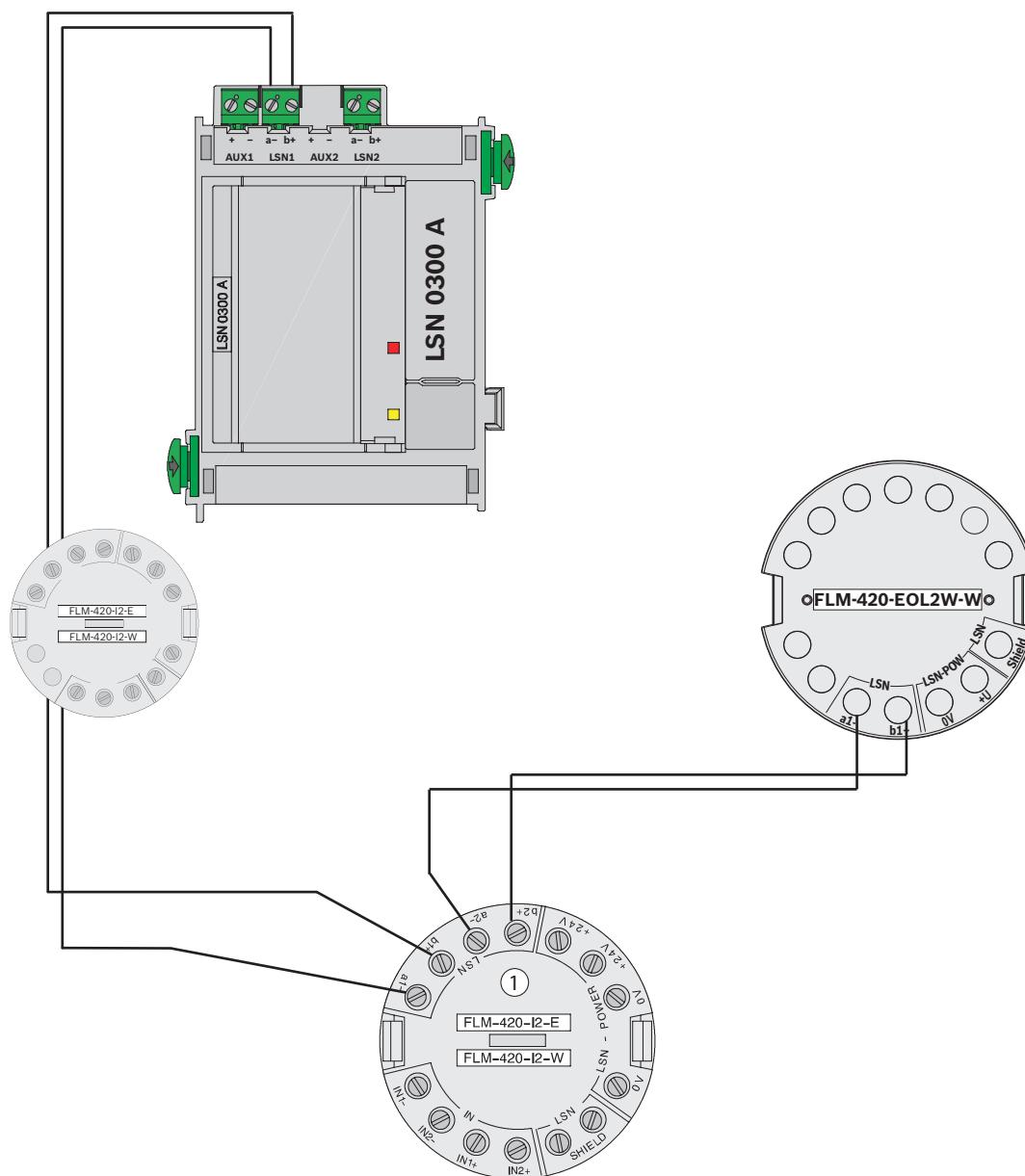


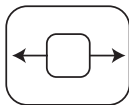


**FLM-420-I2-E/W**

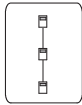


**ELS      VdS 2489**

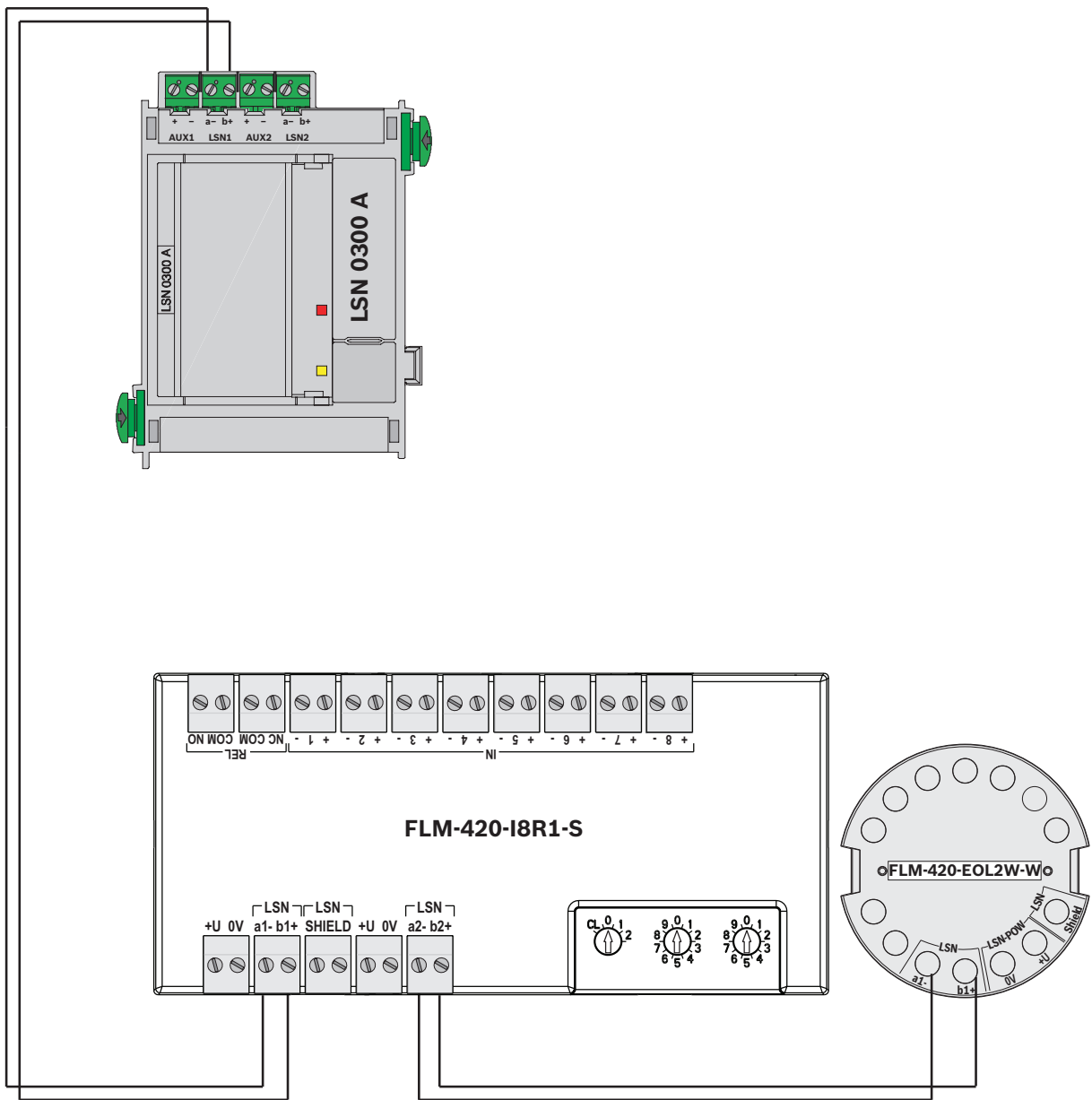


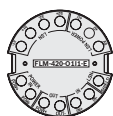
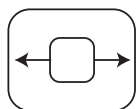


FLM-420-I8R1-S

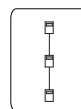


ELS VdS 2489

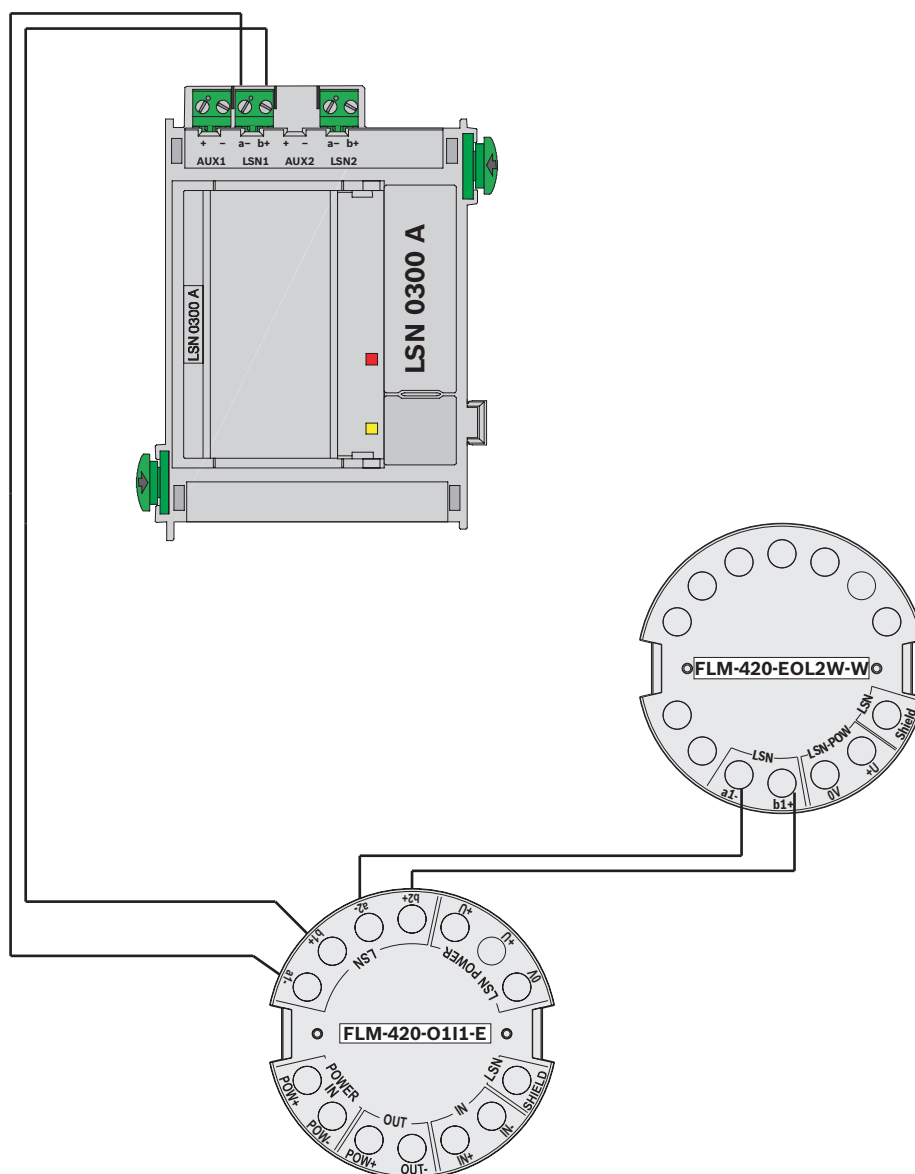




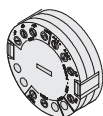
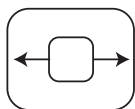
**FLM-420-O1I1-E**



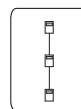
**ELS    VdS 2489**



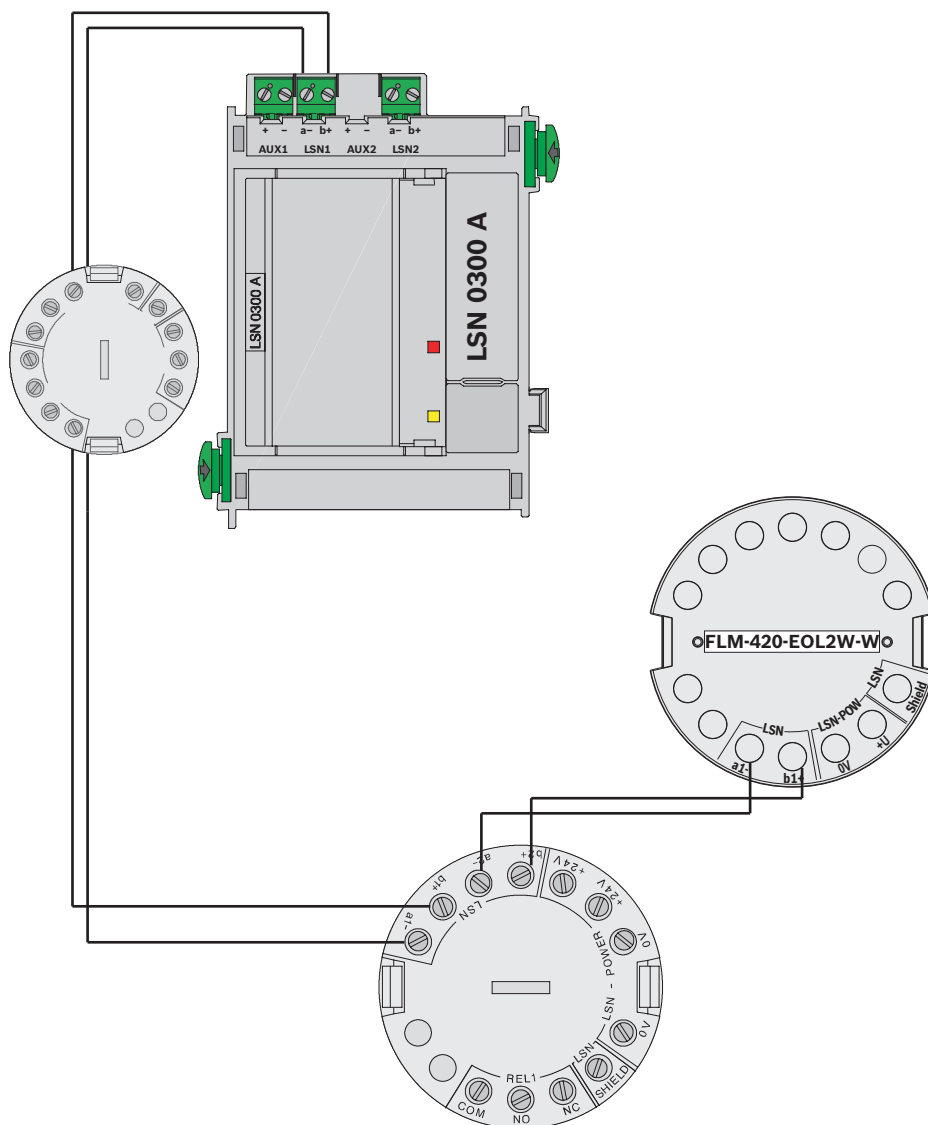




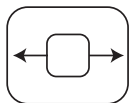
**FLM-420-I2-E/-W**  
**FLM-420-RLV1-E**



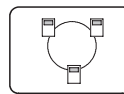
**ELS VdS 2489**



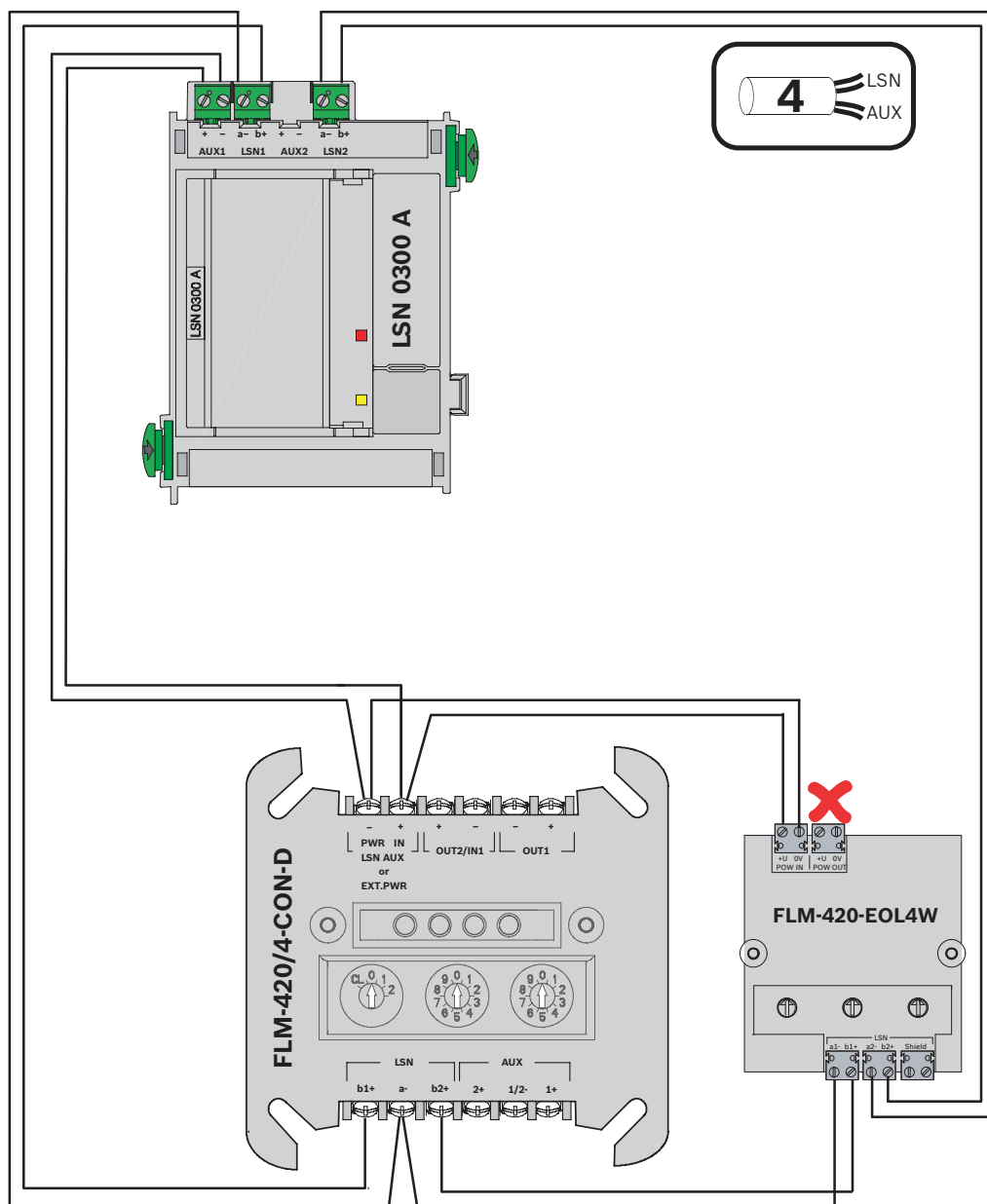


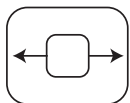


**FLM-420/  
4-CON-D**

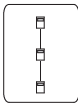


**ELS VdS 2489**

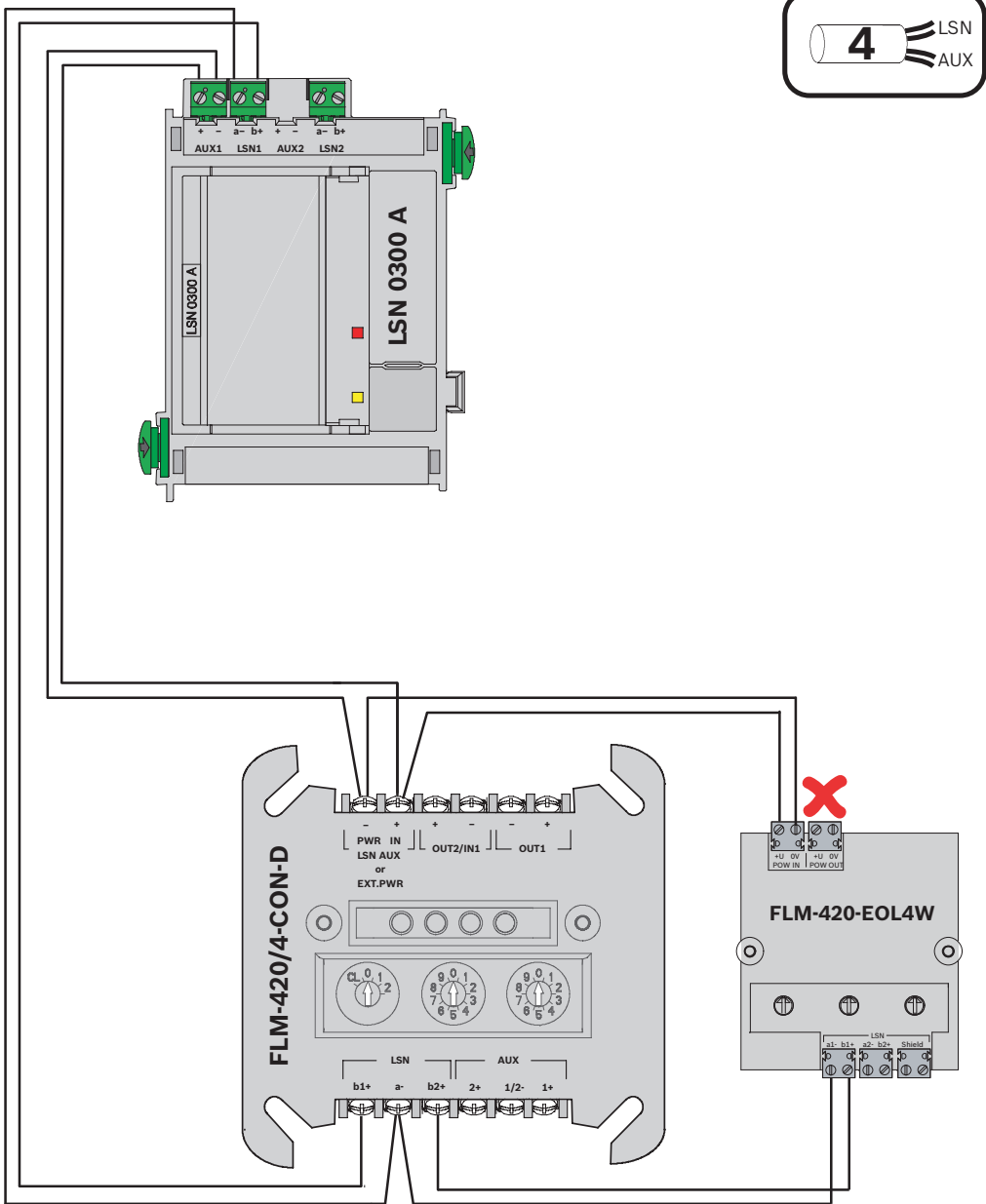




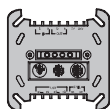
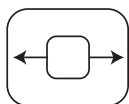
**FLM-420/  
4-CON-D**



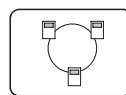
**ELS VdS 2489**



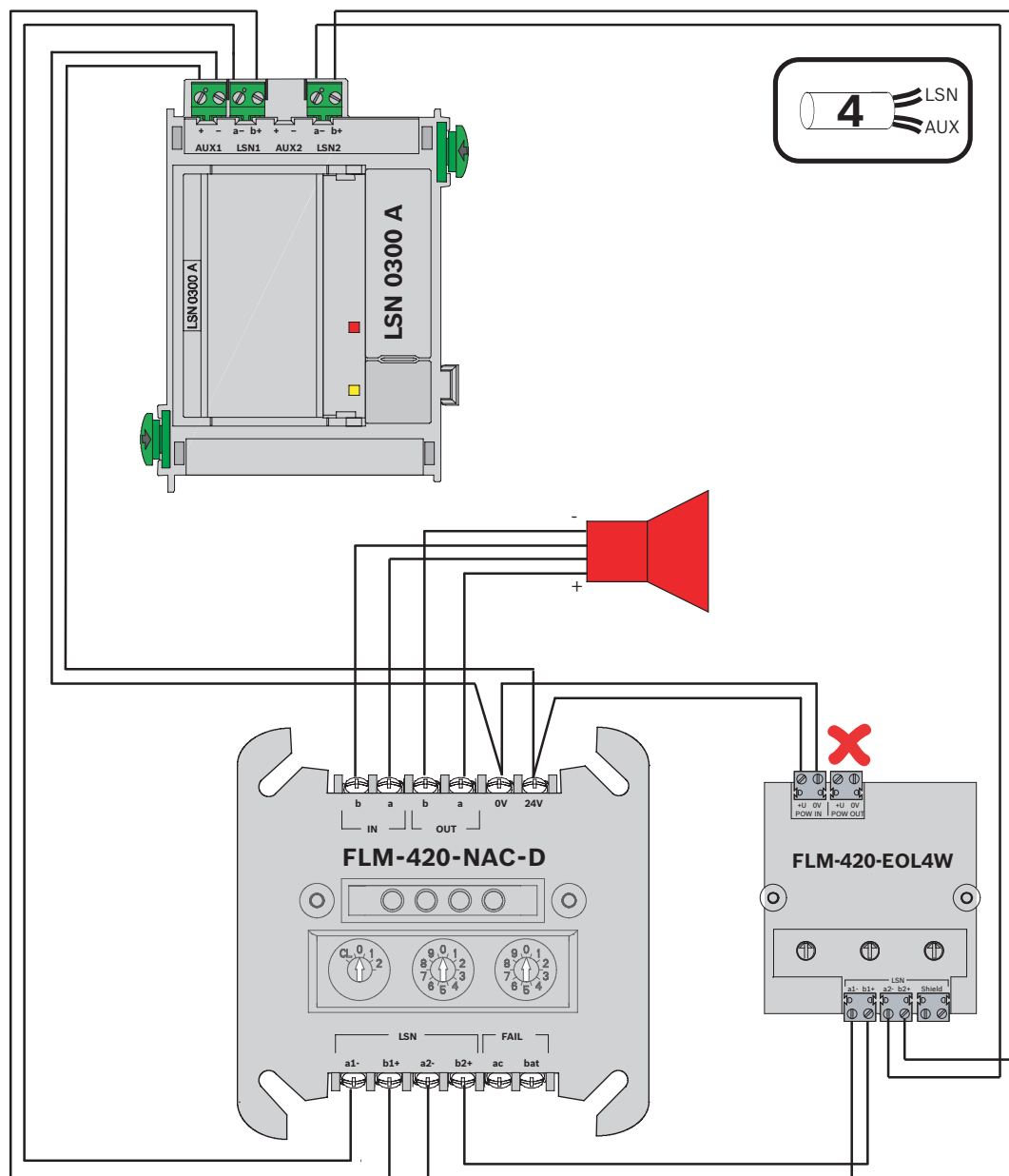


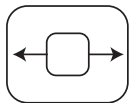


**FLM-420-NAC-D/S**

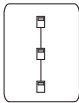


**ELS VdS 2489  
EN 54-2**

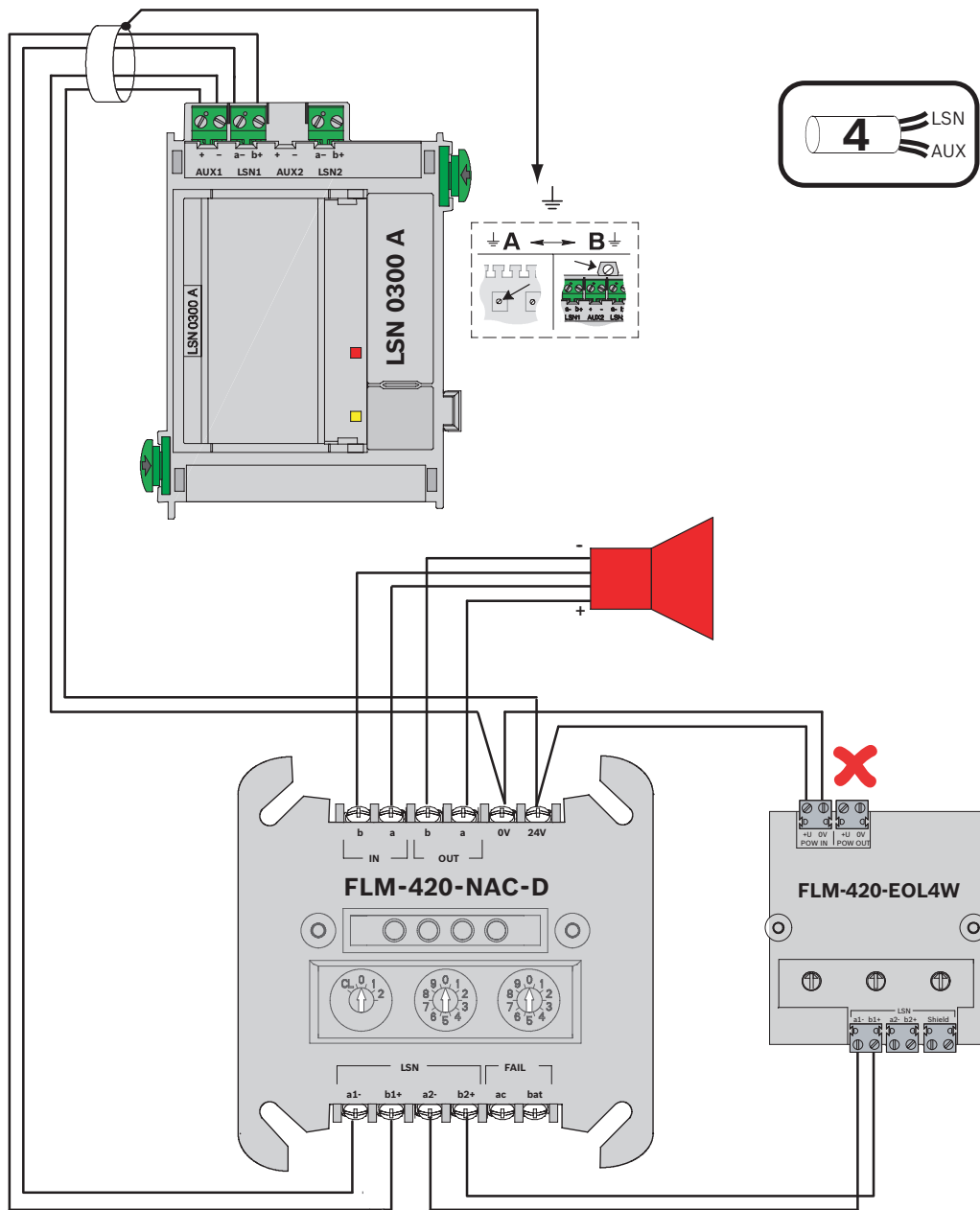


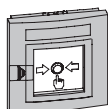
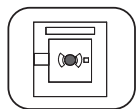


FLM-420-NAC-D/S

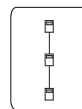


ELS VdS 2489

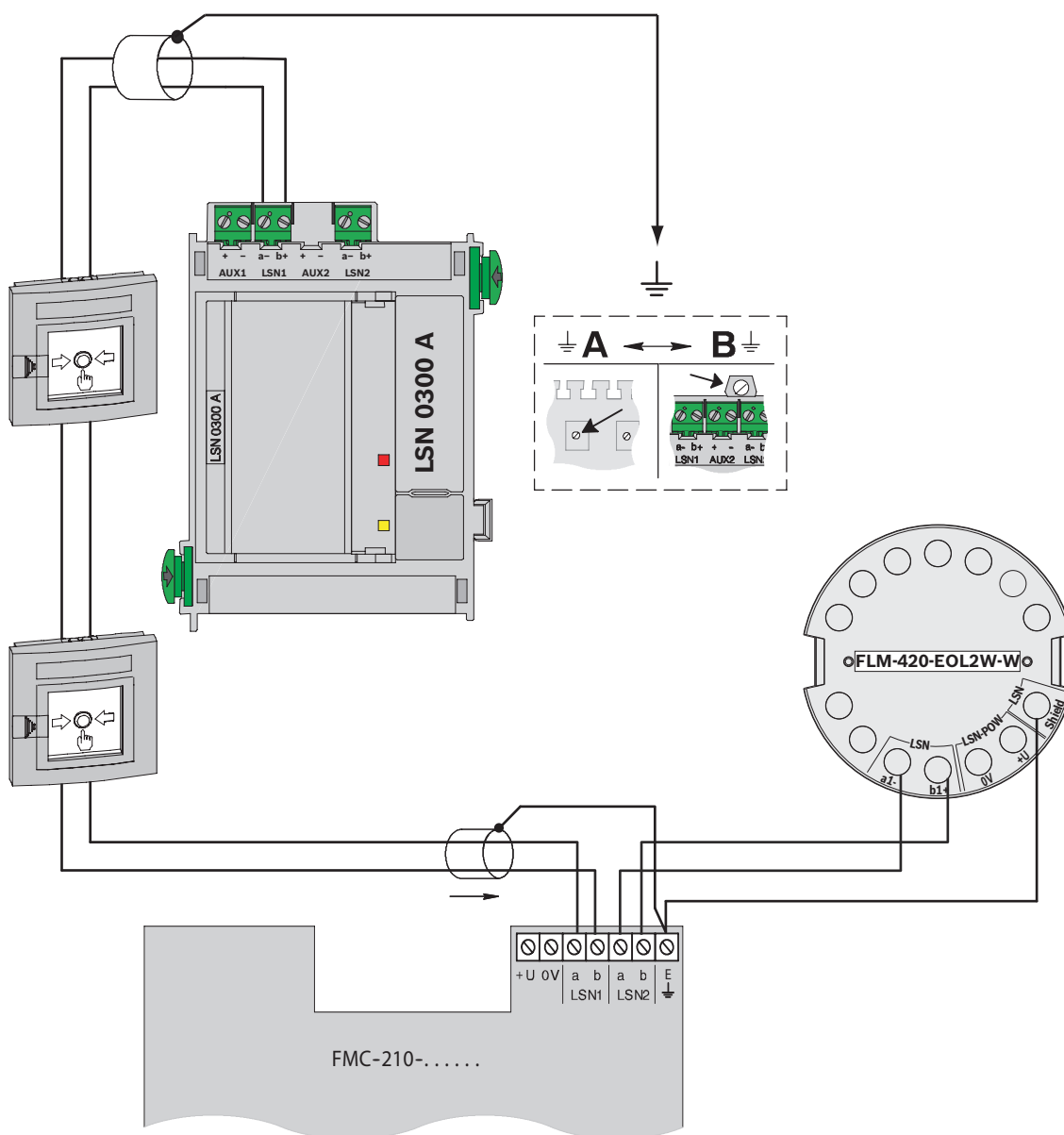


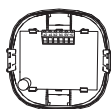


FMC-210-...

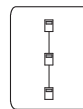


ELS VdS 2489

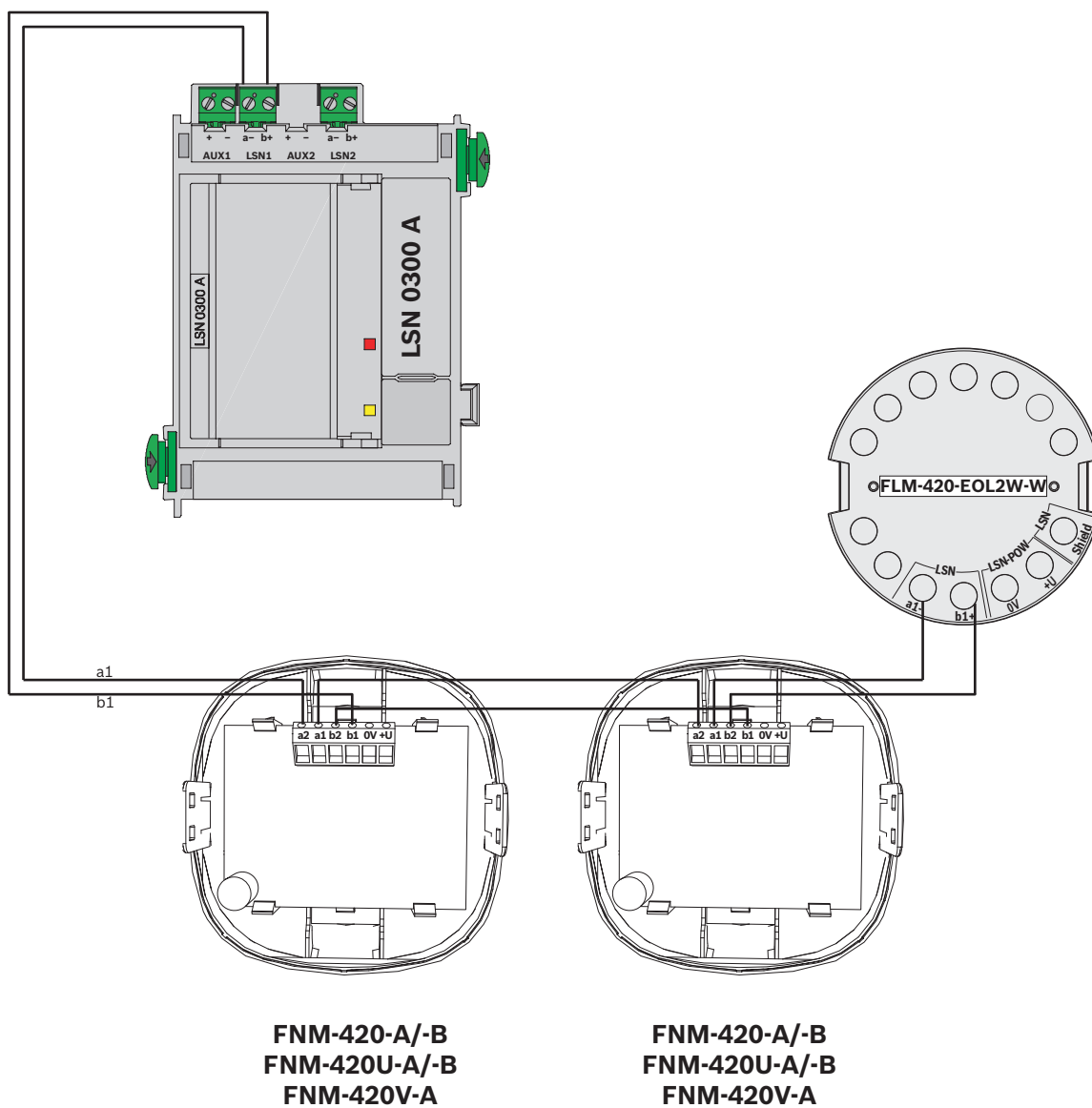




**FNM-420-A /-B**  
**FNM-420U-A /-B**  
**FNM-420V-A**



**ELS VdS 2489**

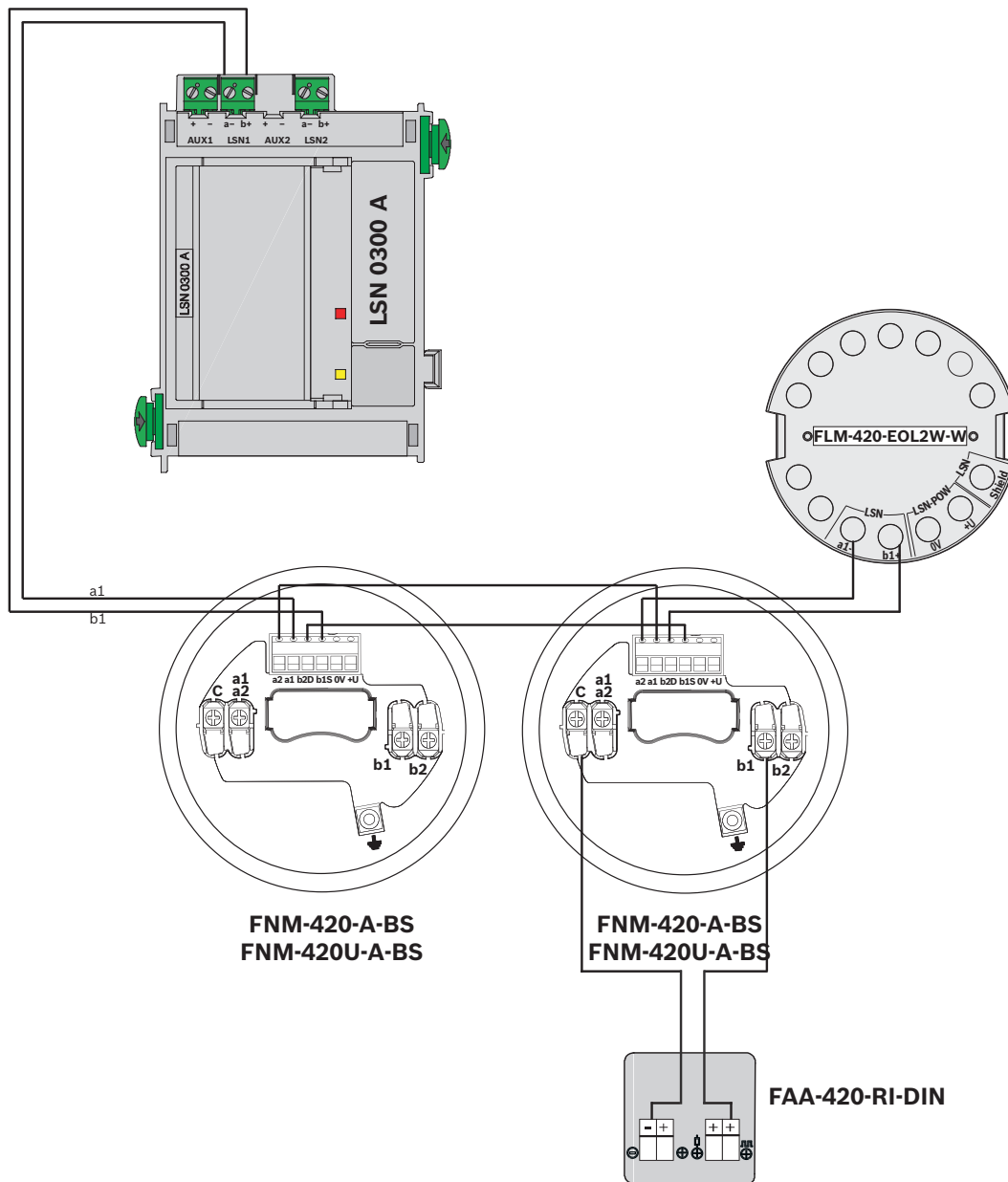




**FNM-420-A-BS**  
**FNM-420U-A-BS**



**ELS VdS 2489**

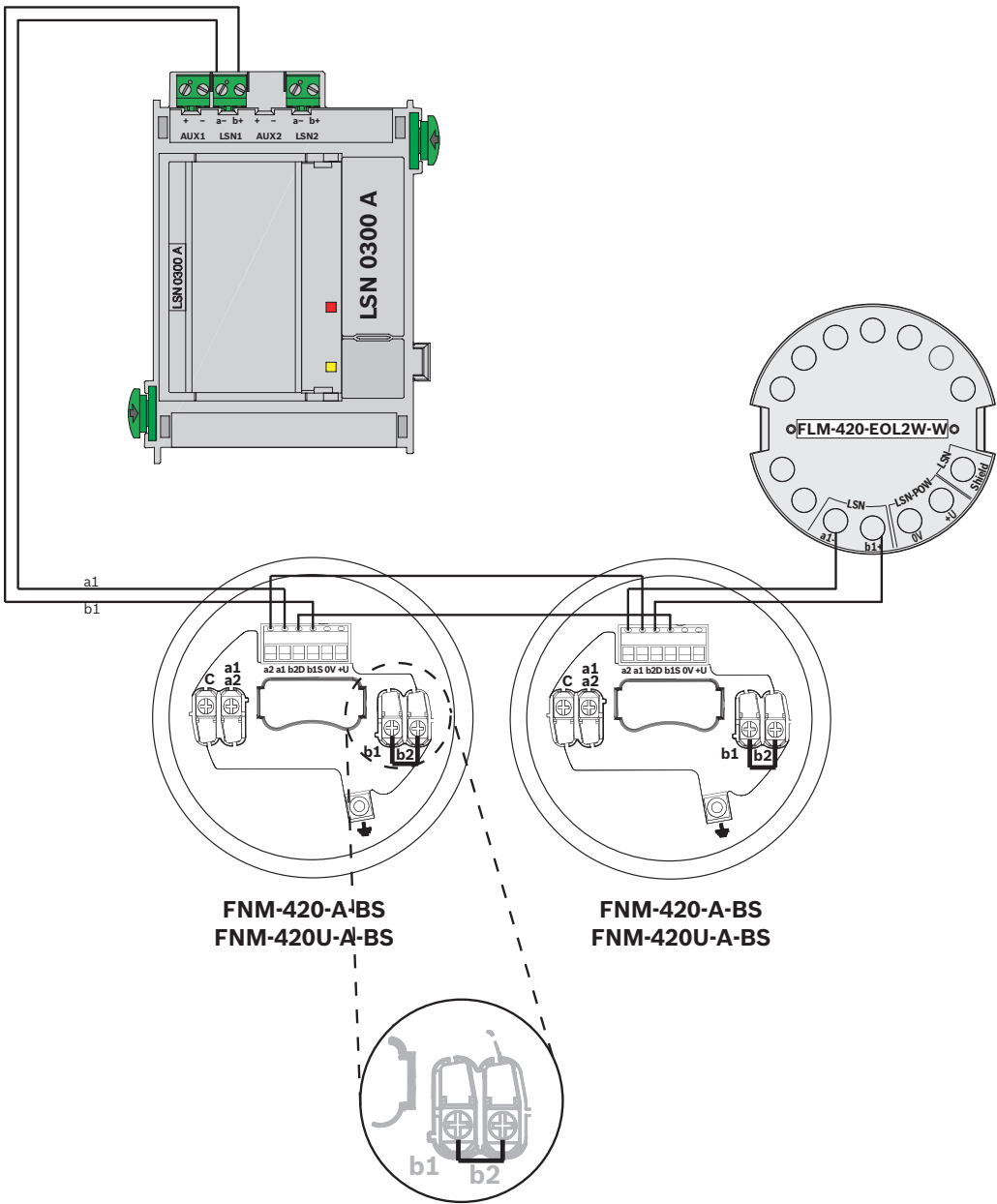




**FNM-420-A-BS**  
**FNM-420U-A-BS**



**ELS VdS 2489**

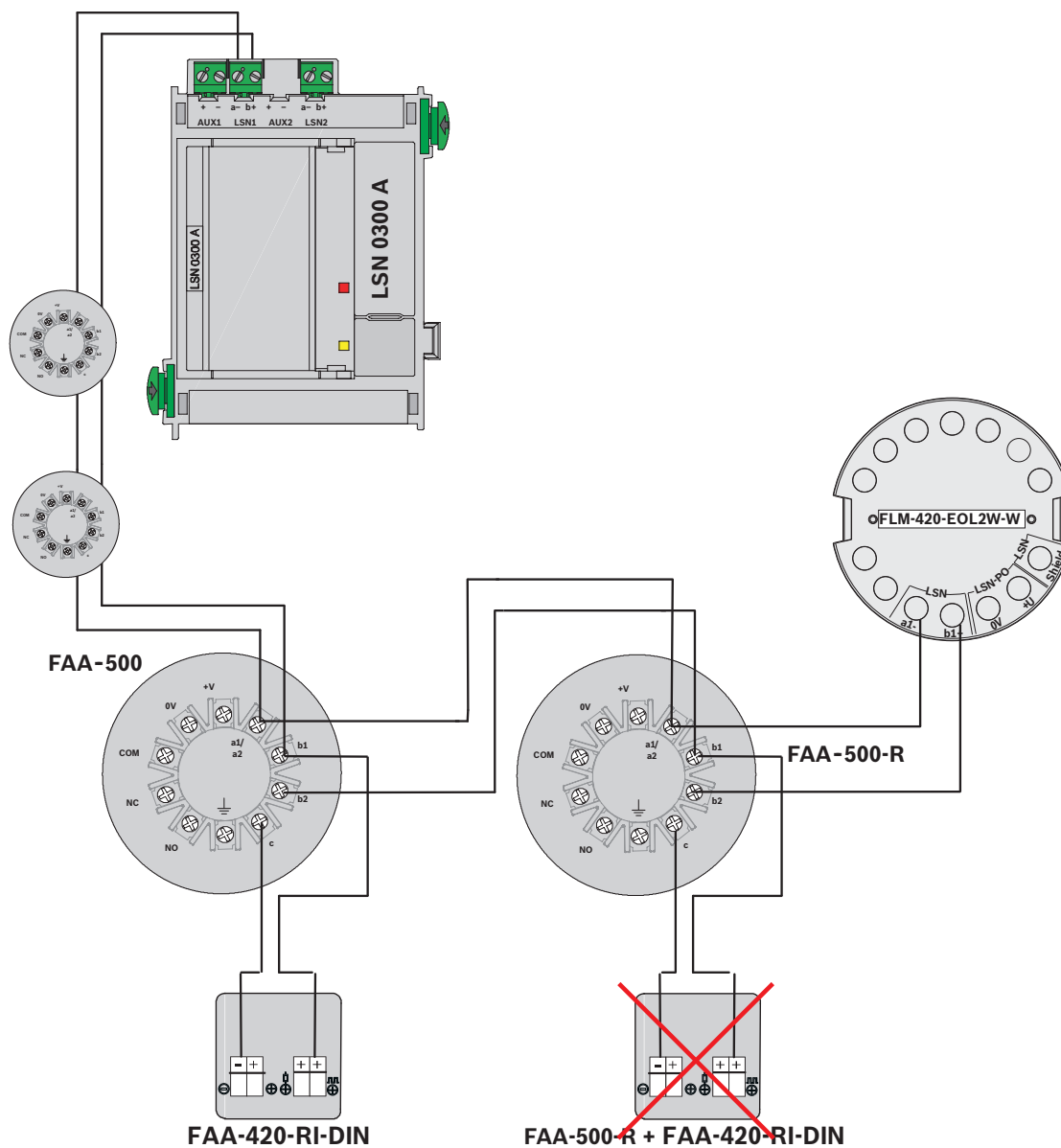




FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P

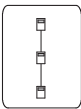


**ELS VdS 2489**

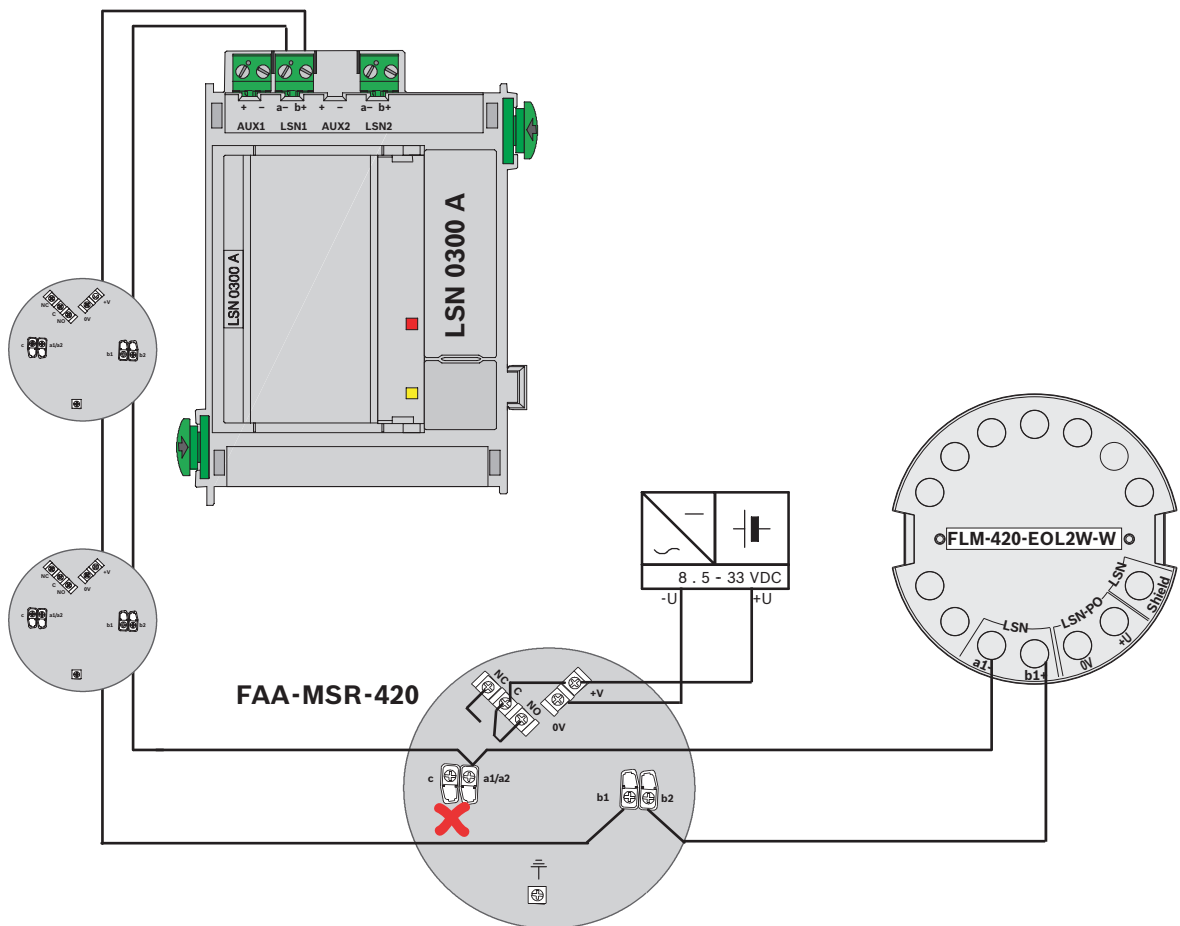




FAP-425-O/-O-R  
FAP-425-OT/-OT-R  
FAP-425-T-R  
FAP-425-DO-R/DOT-R/-DOTC-R



ELS VdS 2489



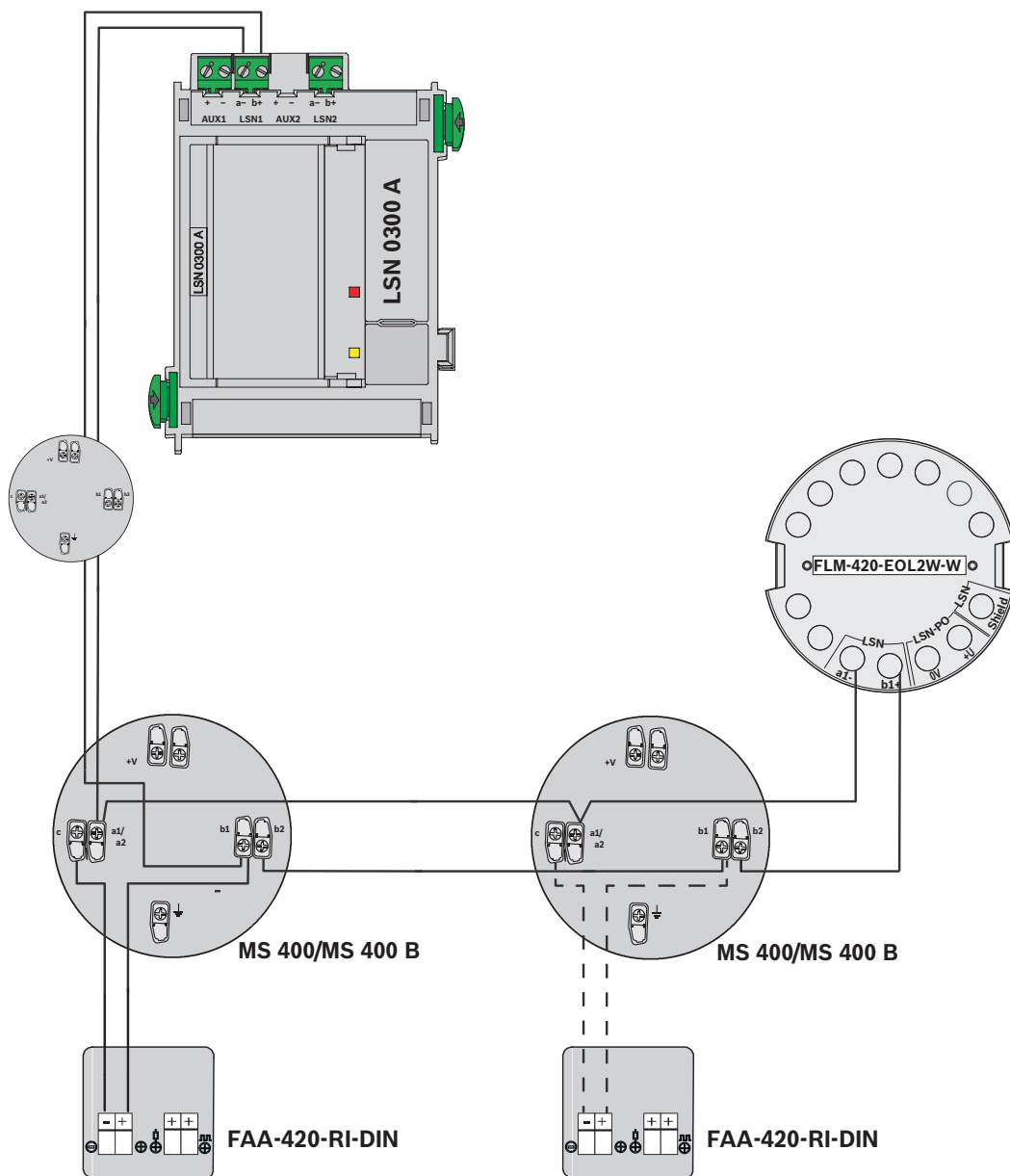


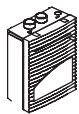


FAP-425-O/-O-R/-OT/-OT-R/-T-R  
FAP-425-DO-R/DOT-R/-DOTC-R  
FCH-320-T320/-T320-R470/-T320-FSA  
FCP-O320/-O320-R470  
FCP-OC320/-OC320-R470  
FCP-OT320/-OT320-R470

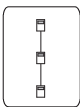


**ELS VdS 2489**

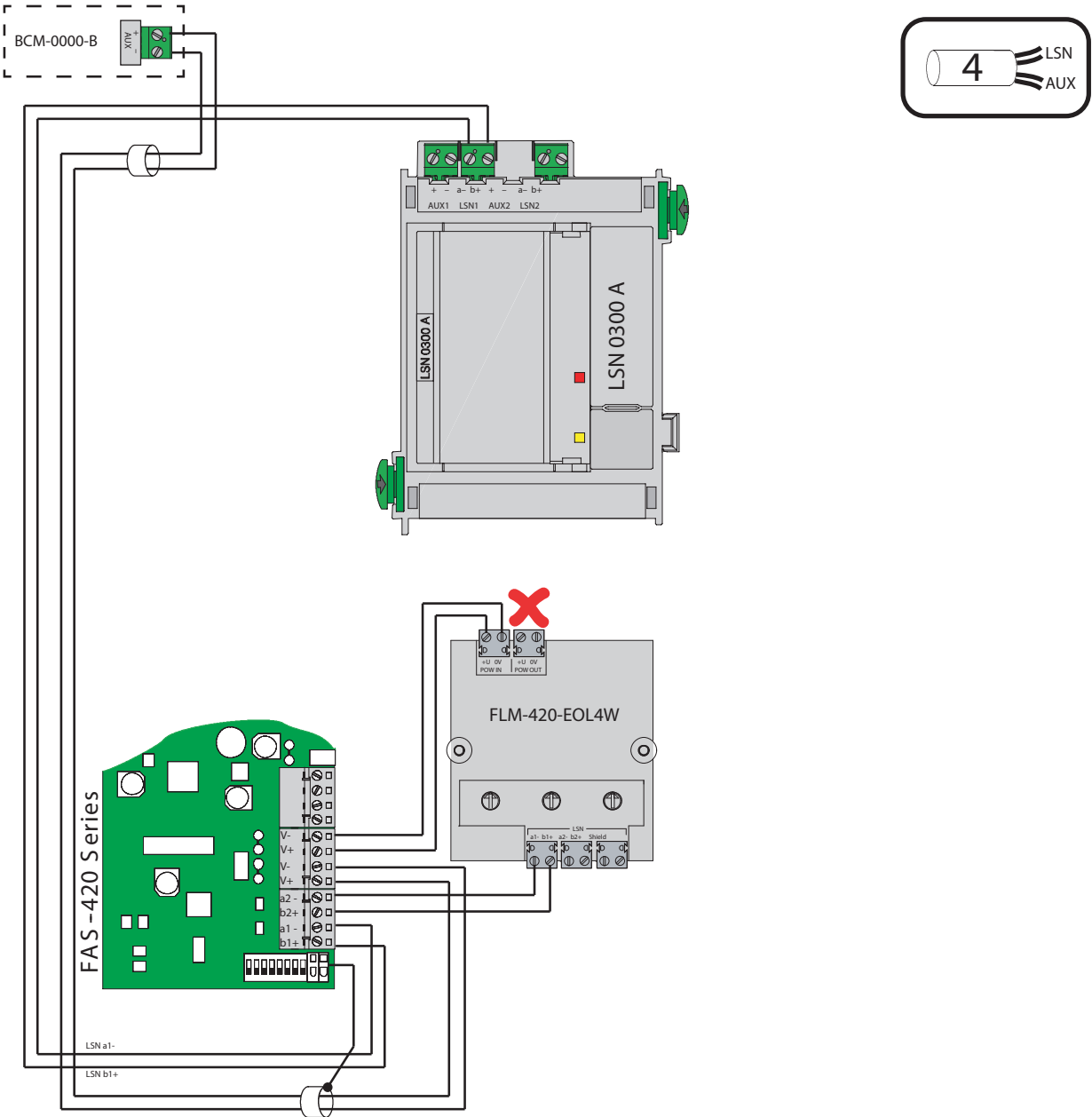


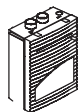


FAS-420 Series

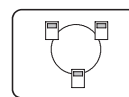


ELS VdS 2489

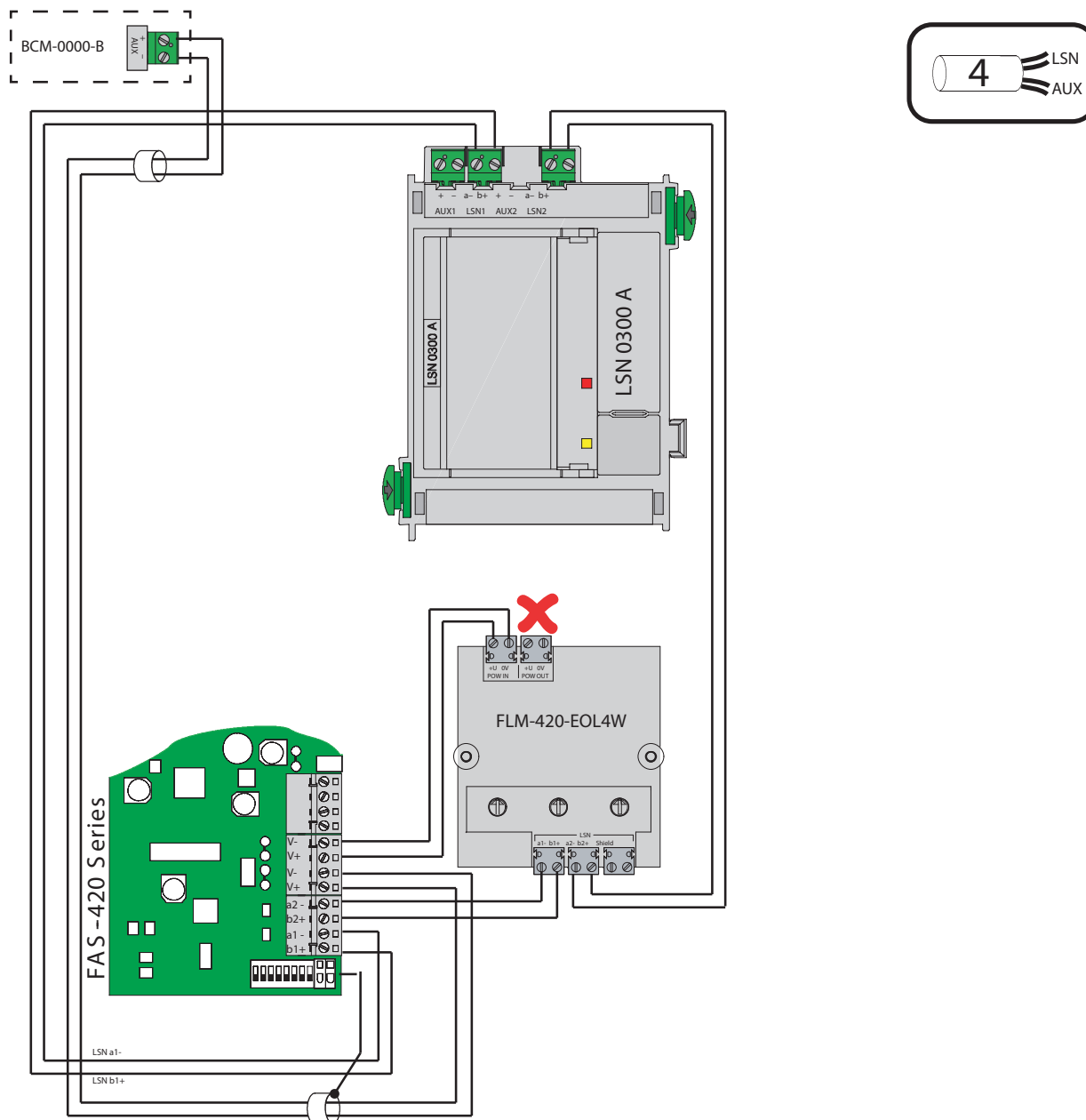


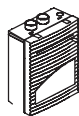


## FAS-420 Series

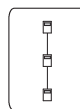


ELS      VdS 2489

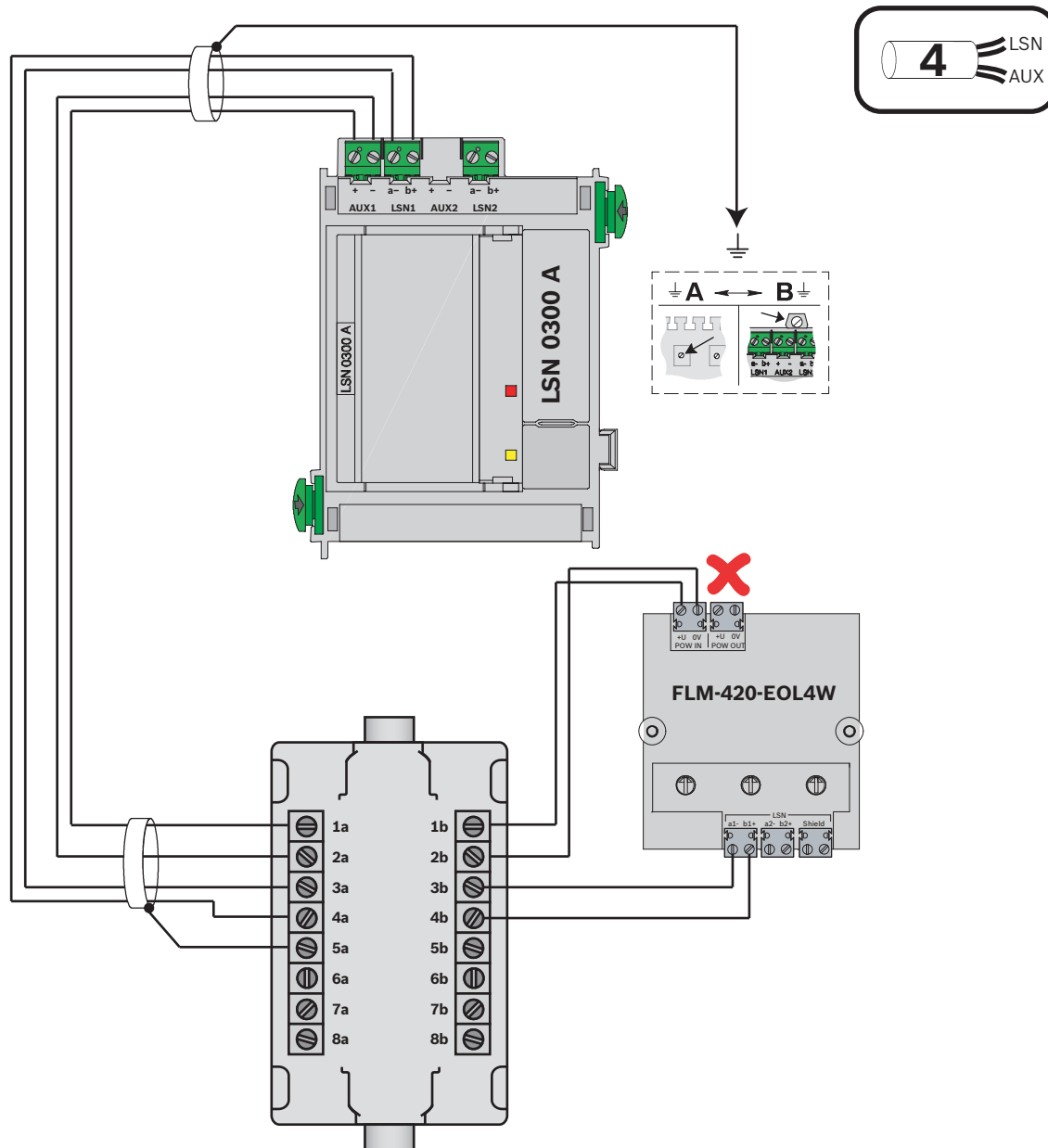


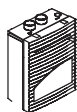


FAS-420-TM Series

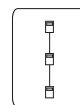


ELS VdS 2489



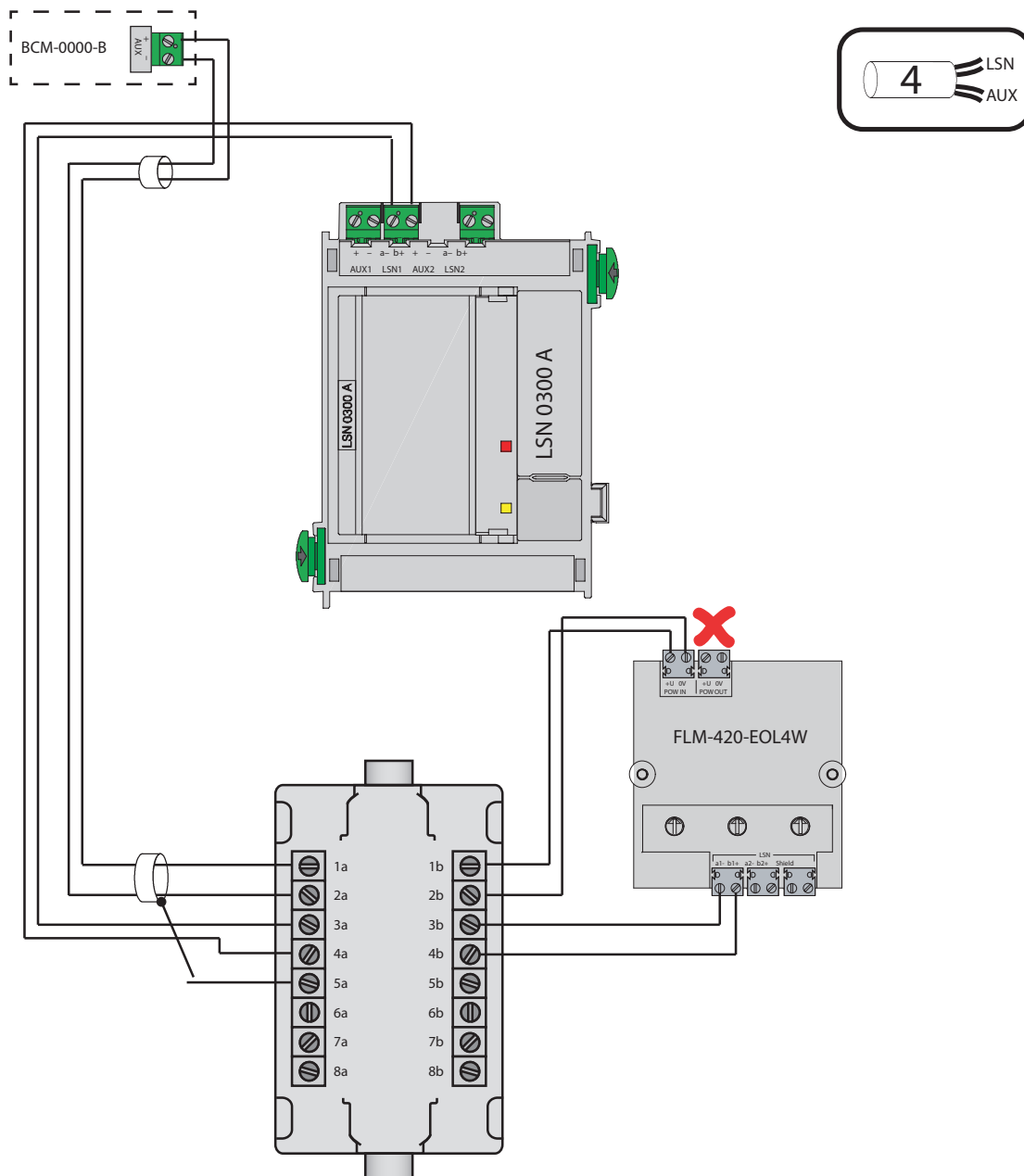


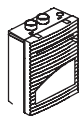
FAS-420-TM Series



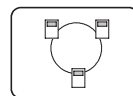
ELS

VdS 2489

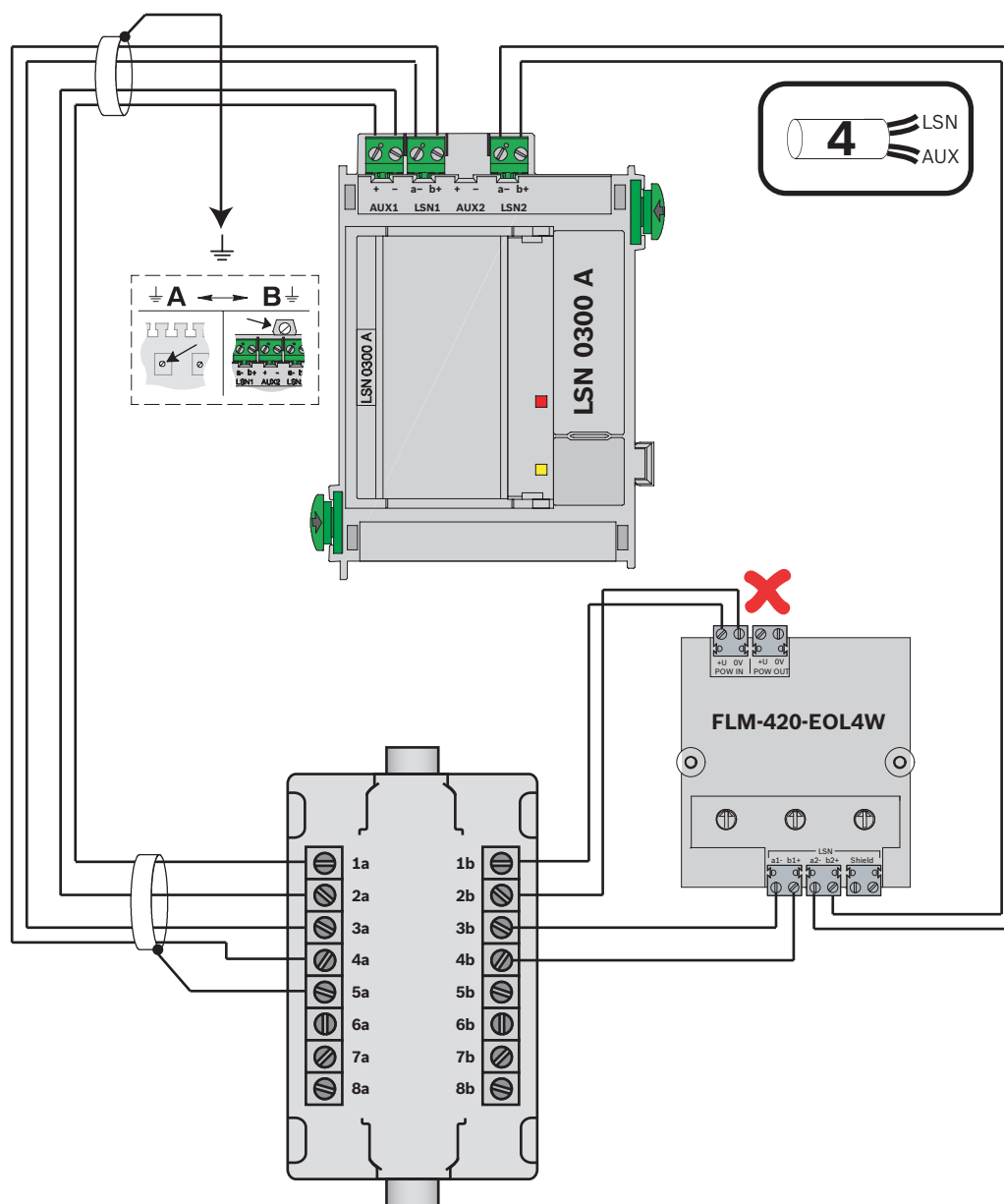


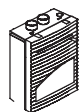


FAS-420-TM Series

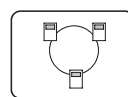


ELS VdS 2489

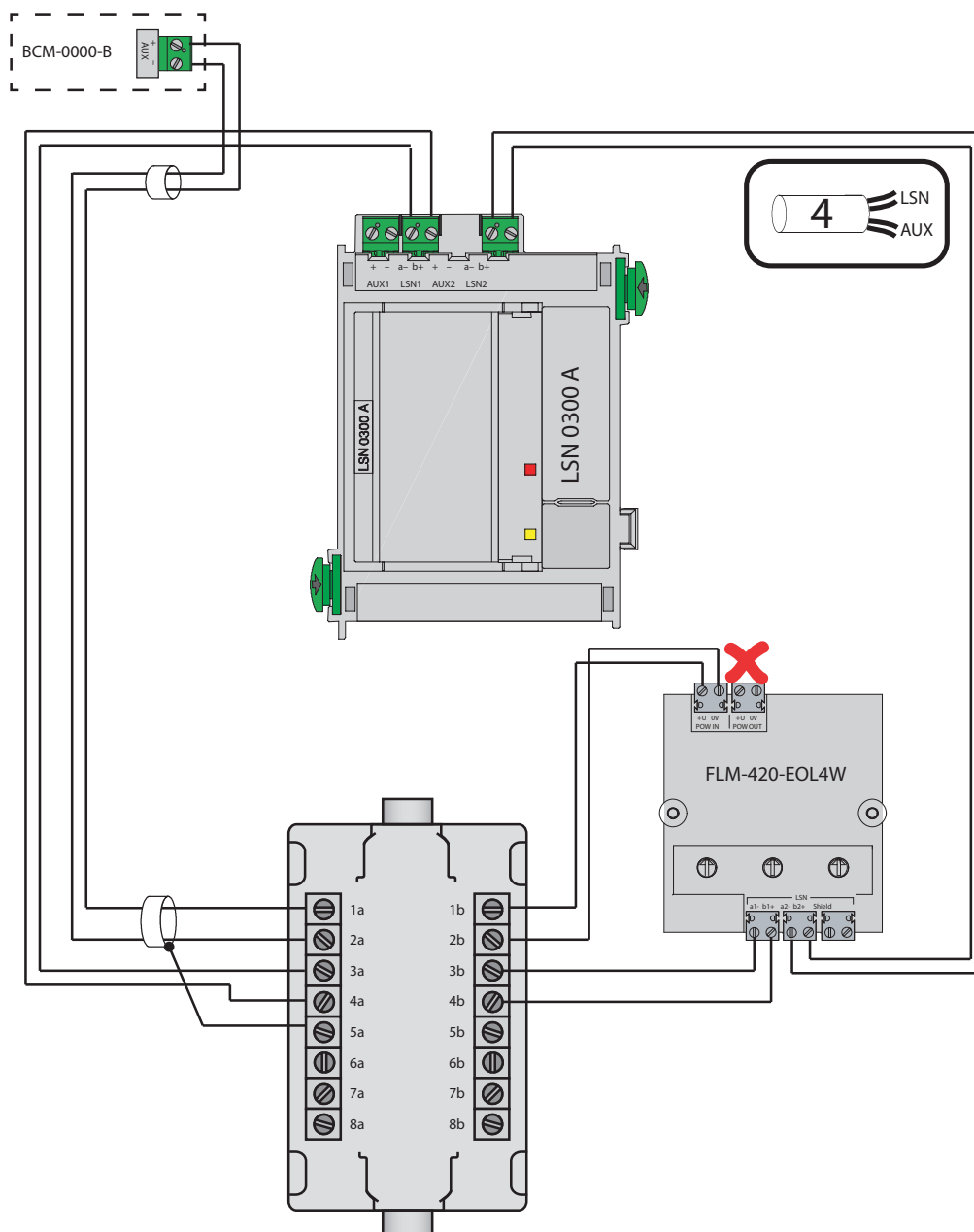




FAS-420-TM Series

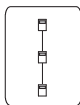


ELS VdS 2489

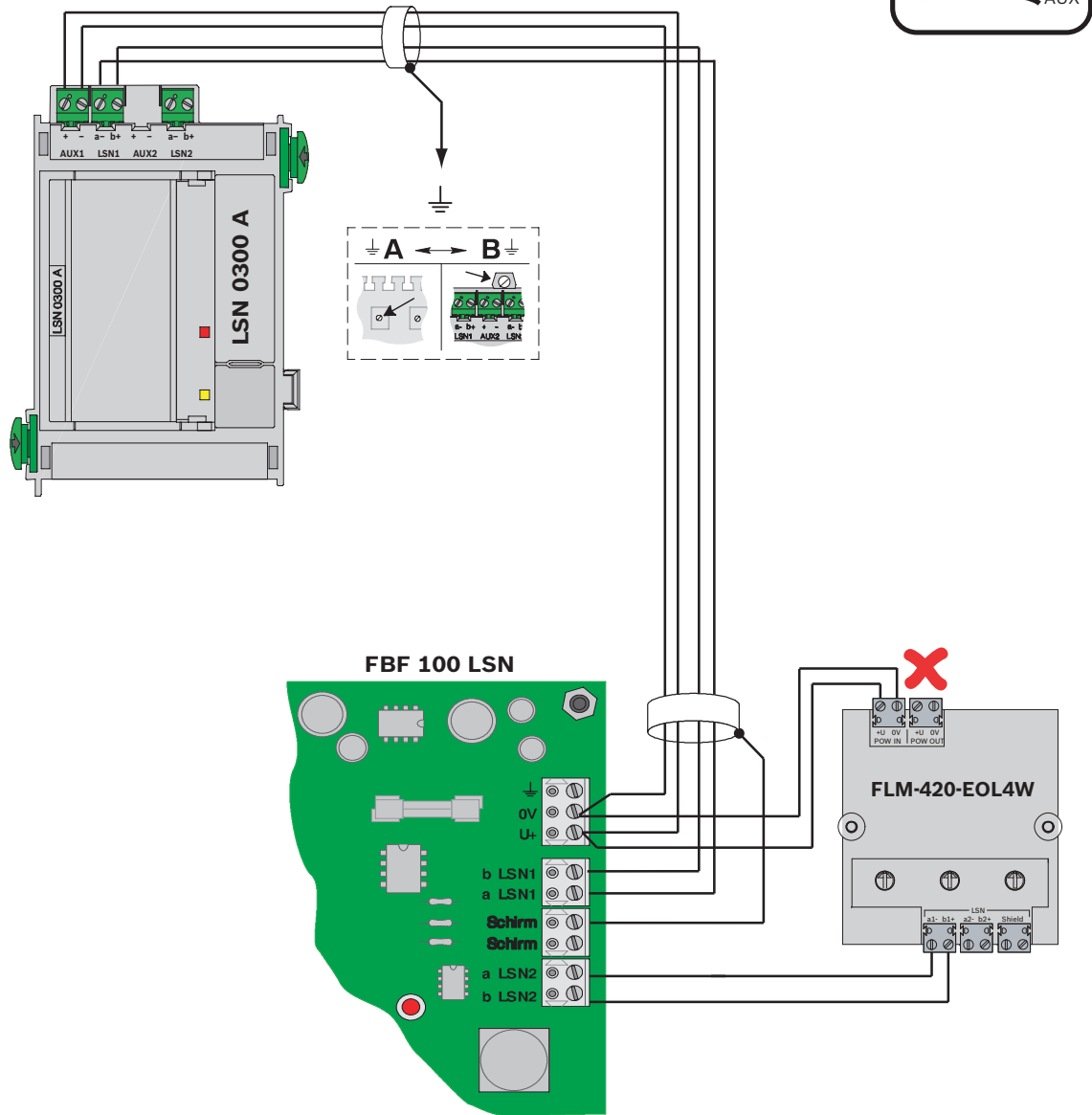




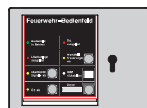
FBF 100 LSN



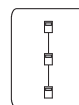
ELS VdS 2489



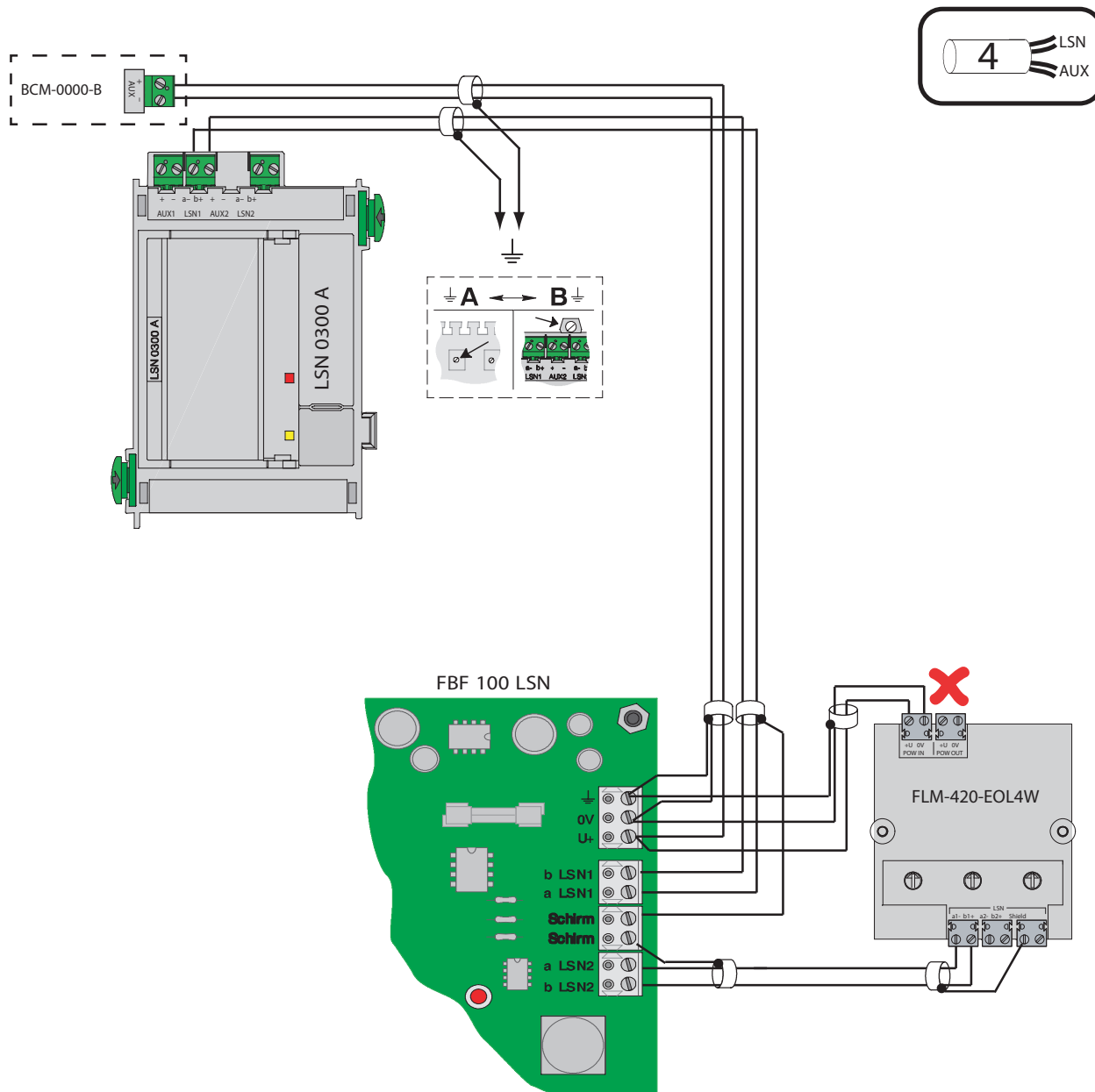


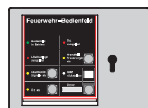


FBF 100 LSN

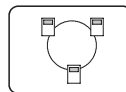


ELS VdS 2489

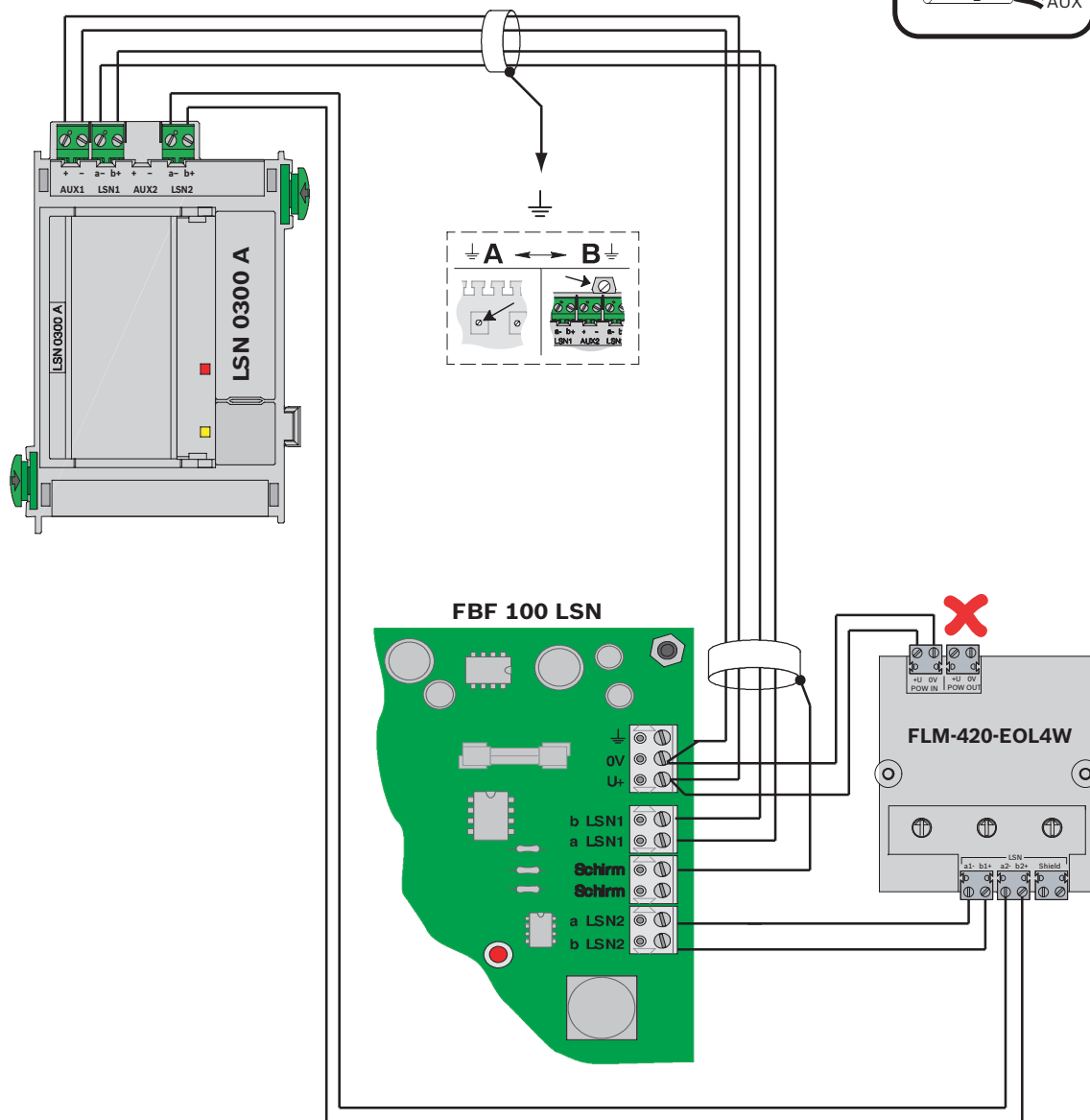




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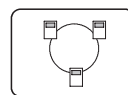


ELS VdS 2489

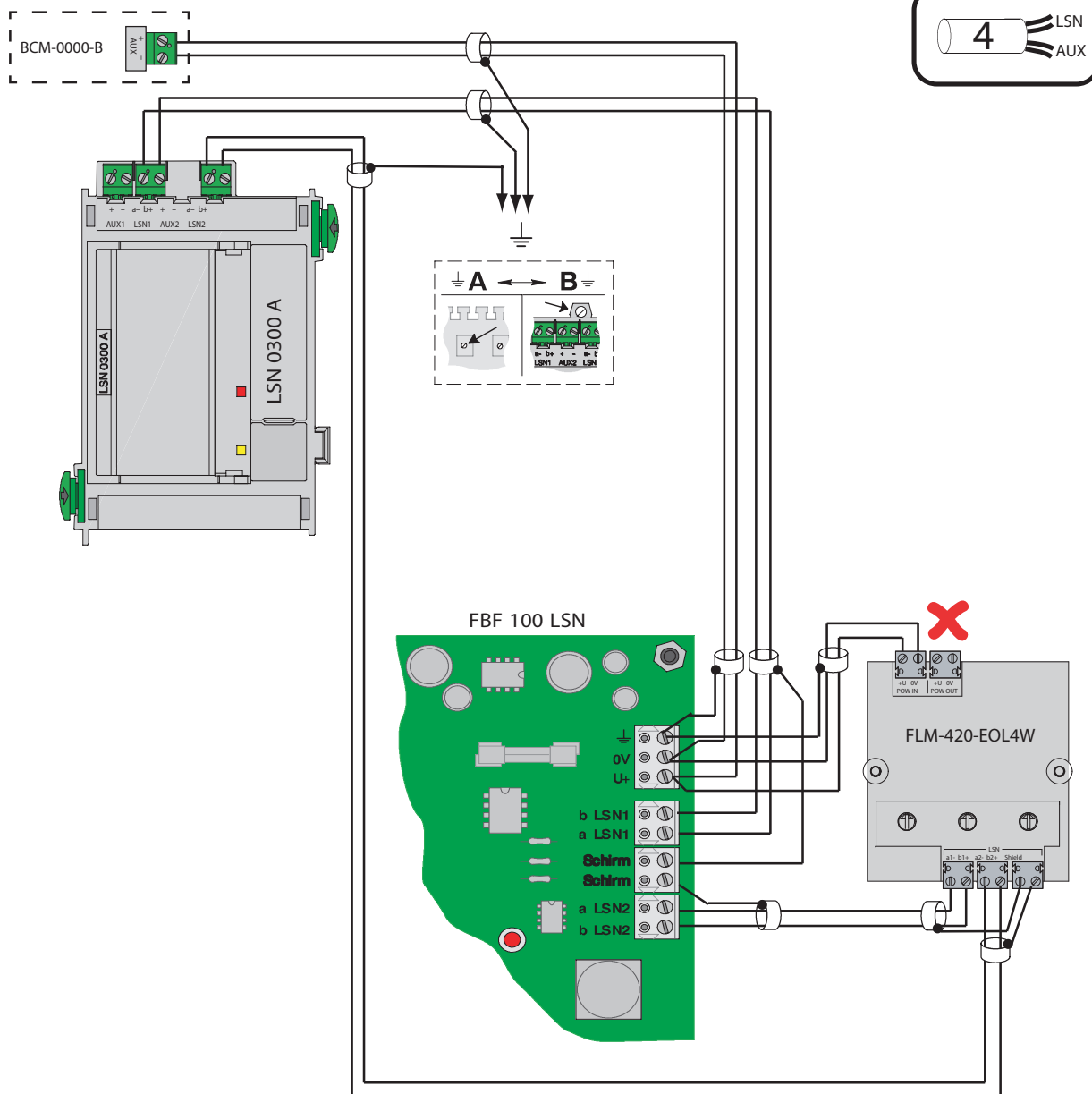


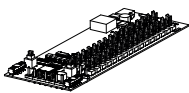


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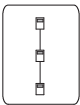


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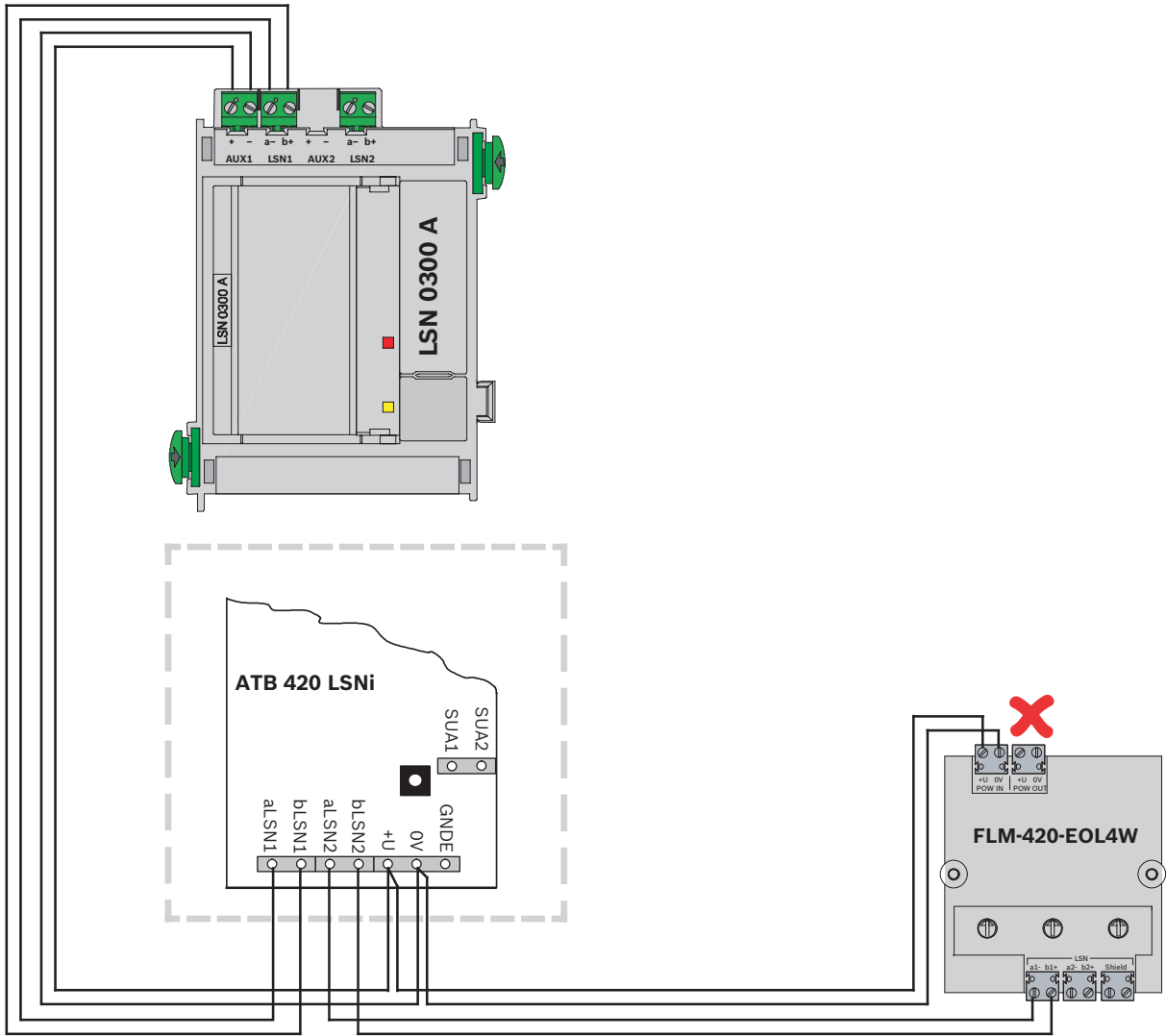


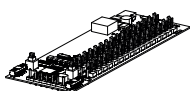


ATB 420 LSNi

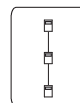


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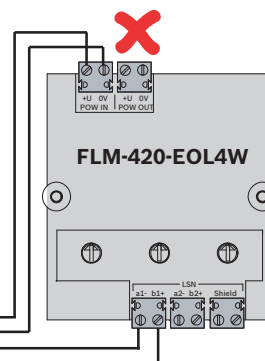
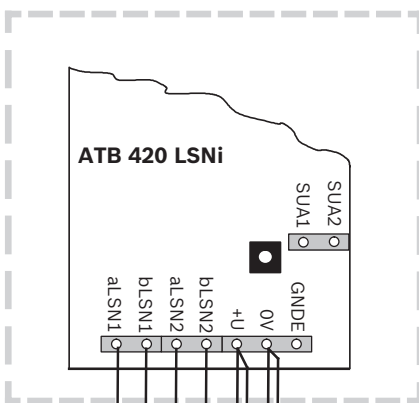
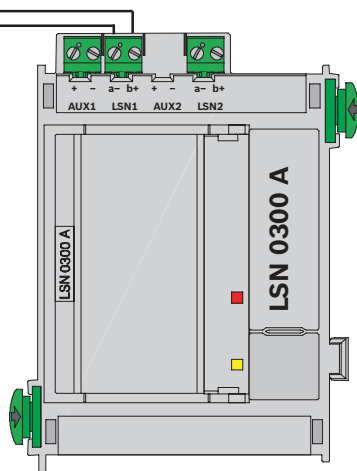
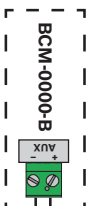


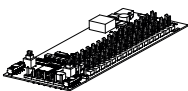


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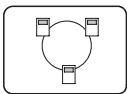


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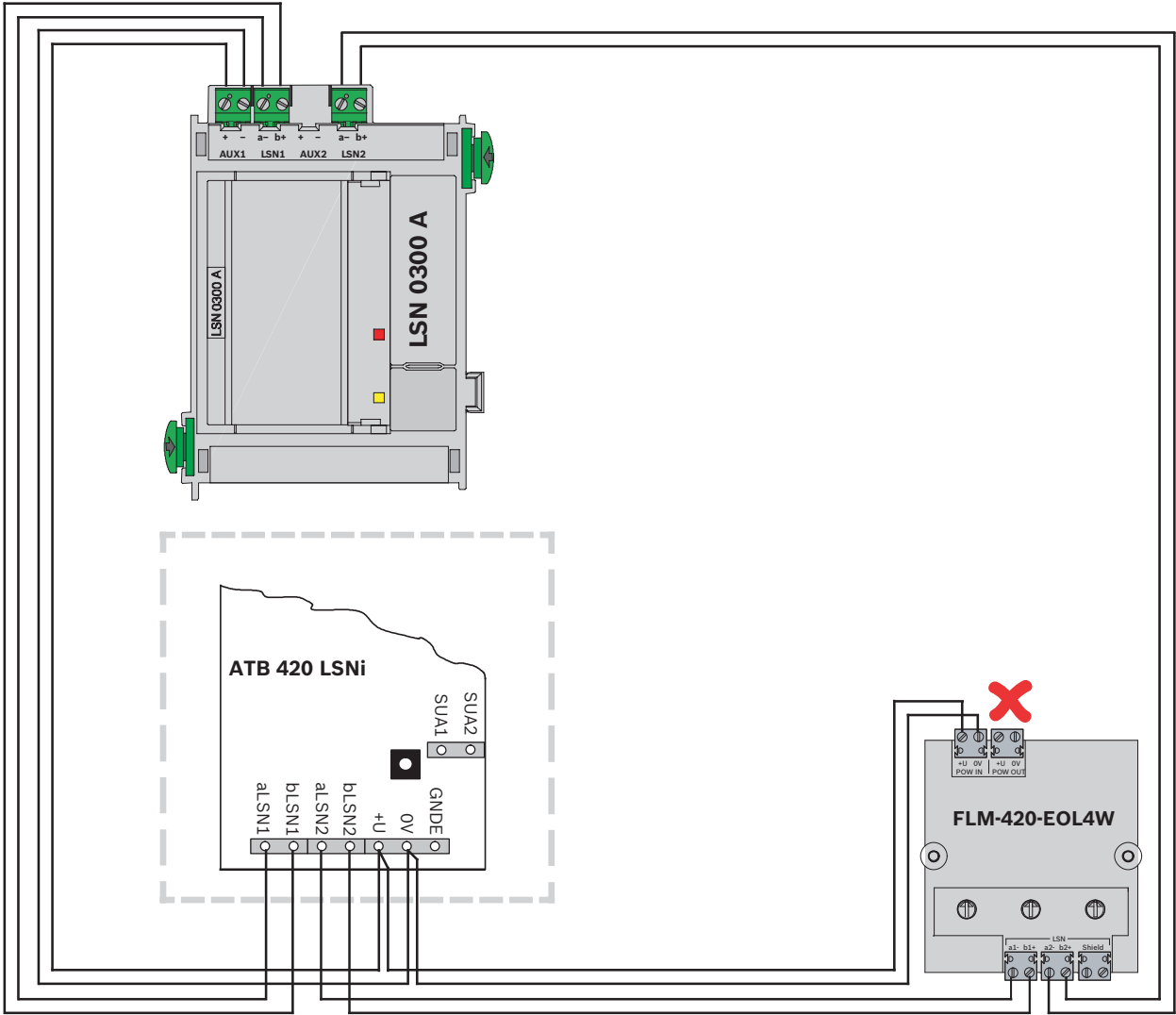


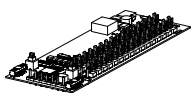


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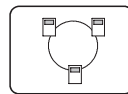


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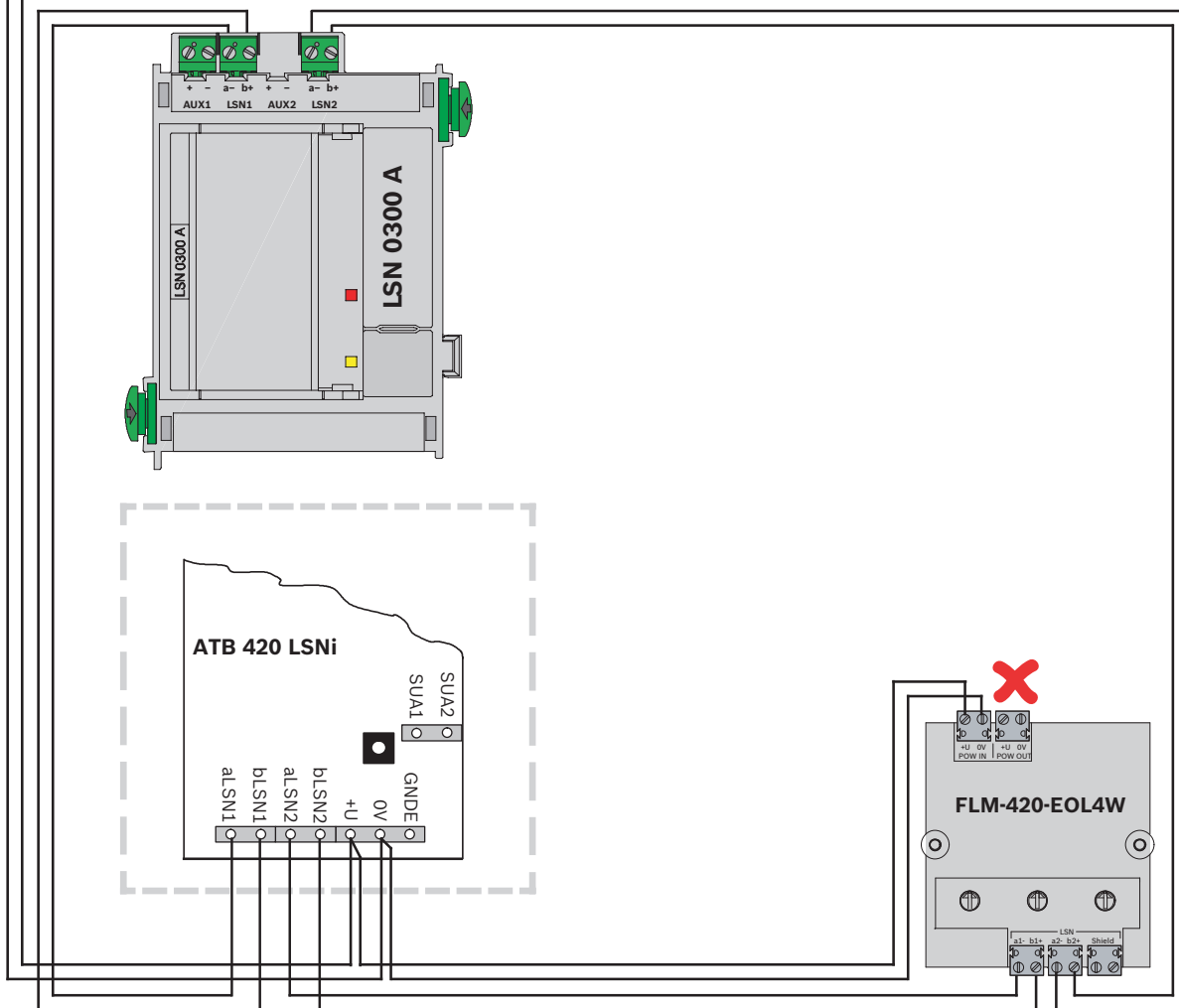
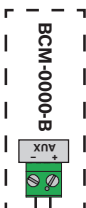




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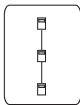


ELS VdS 2489

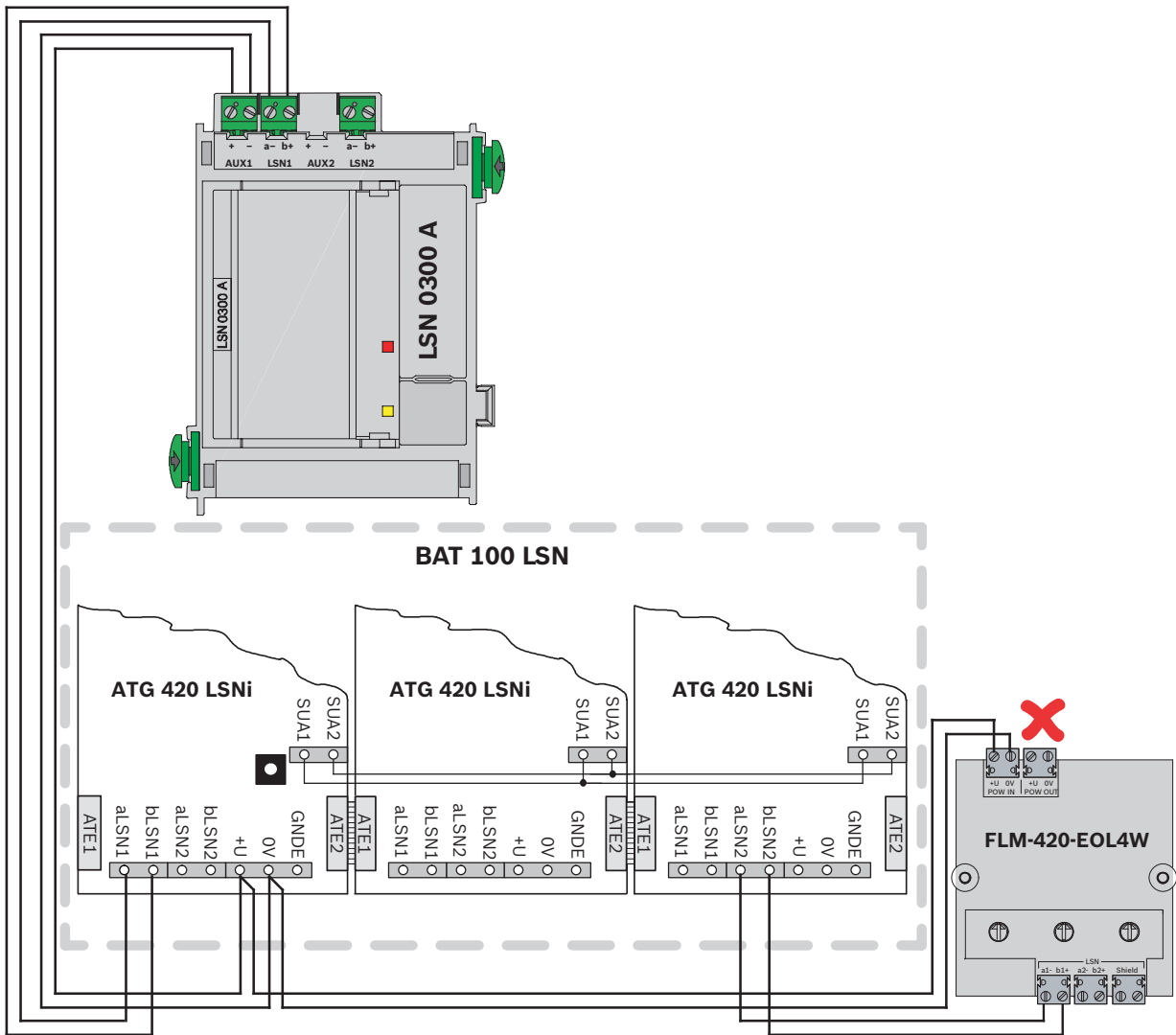




**BAT 100 LSN**  
**ATG 420 LSNi**



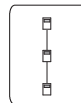
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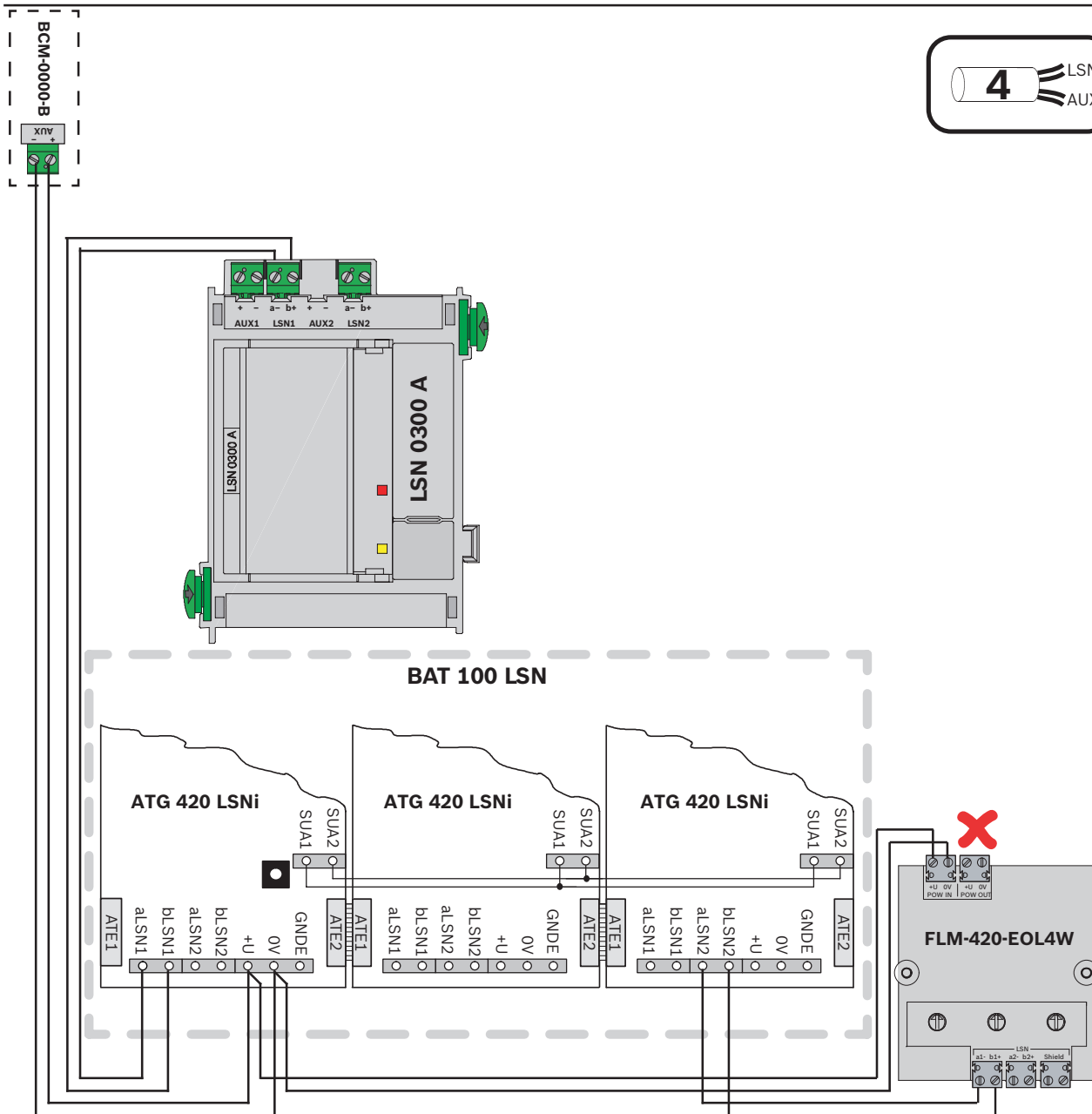
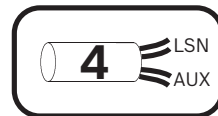




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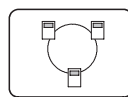


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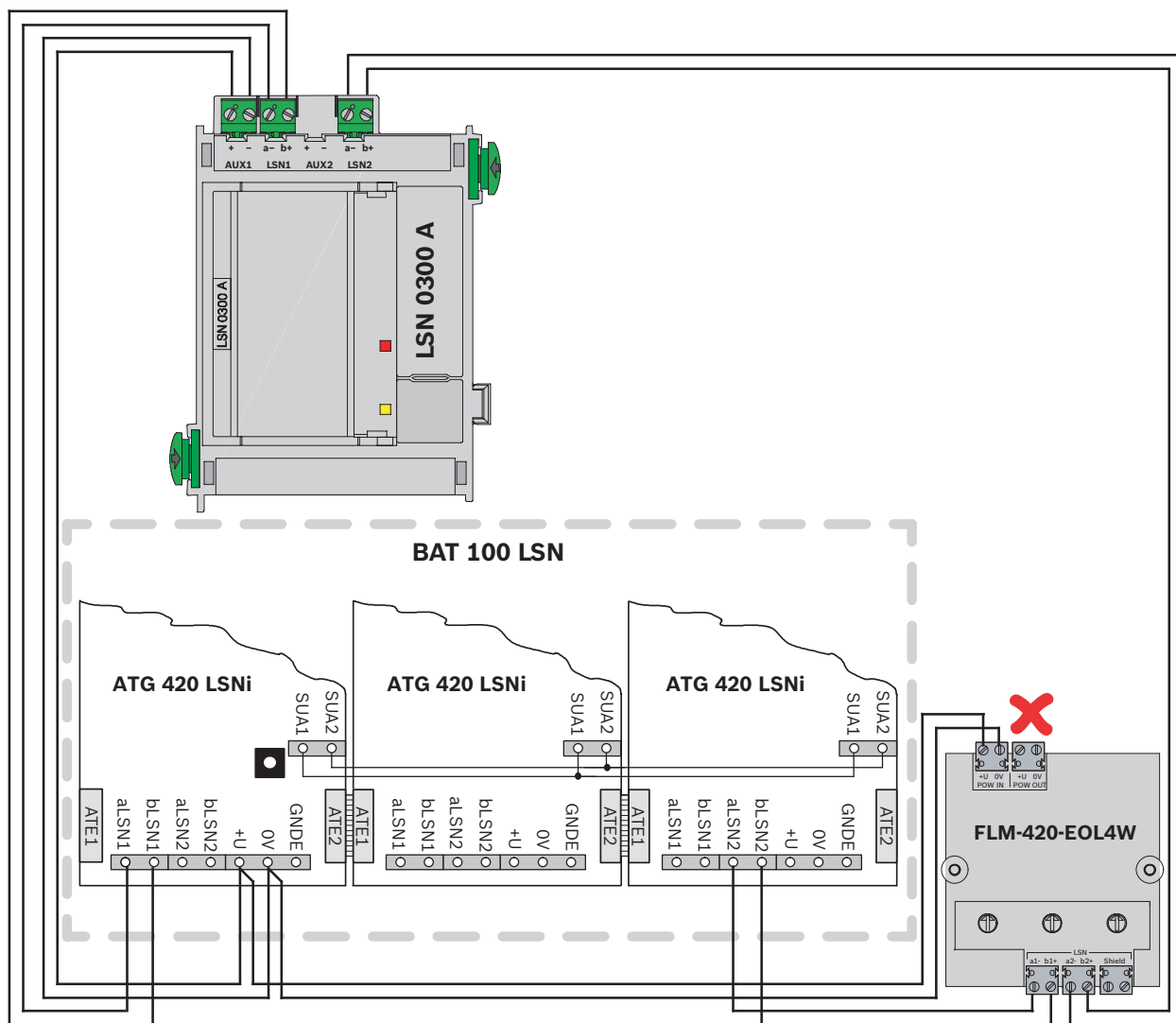
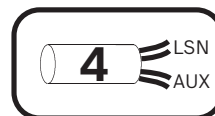




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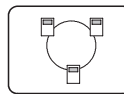


**ELS      VdS 2489**

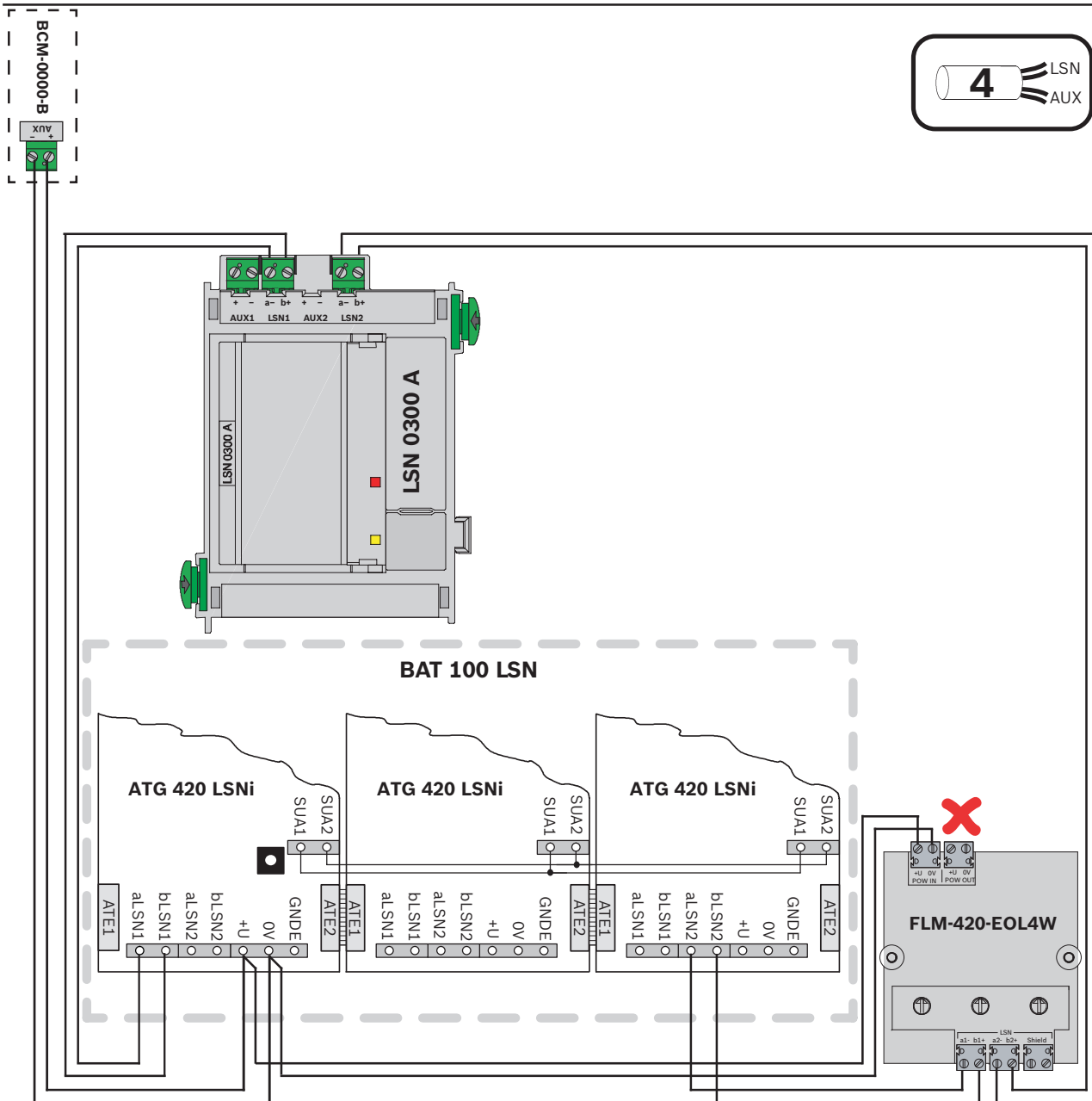
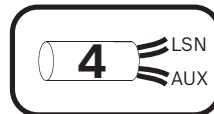


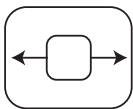


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**ATG 420 LSNi**

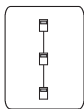


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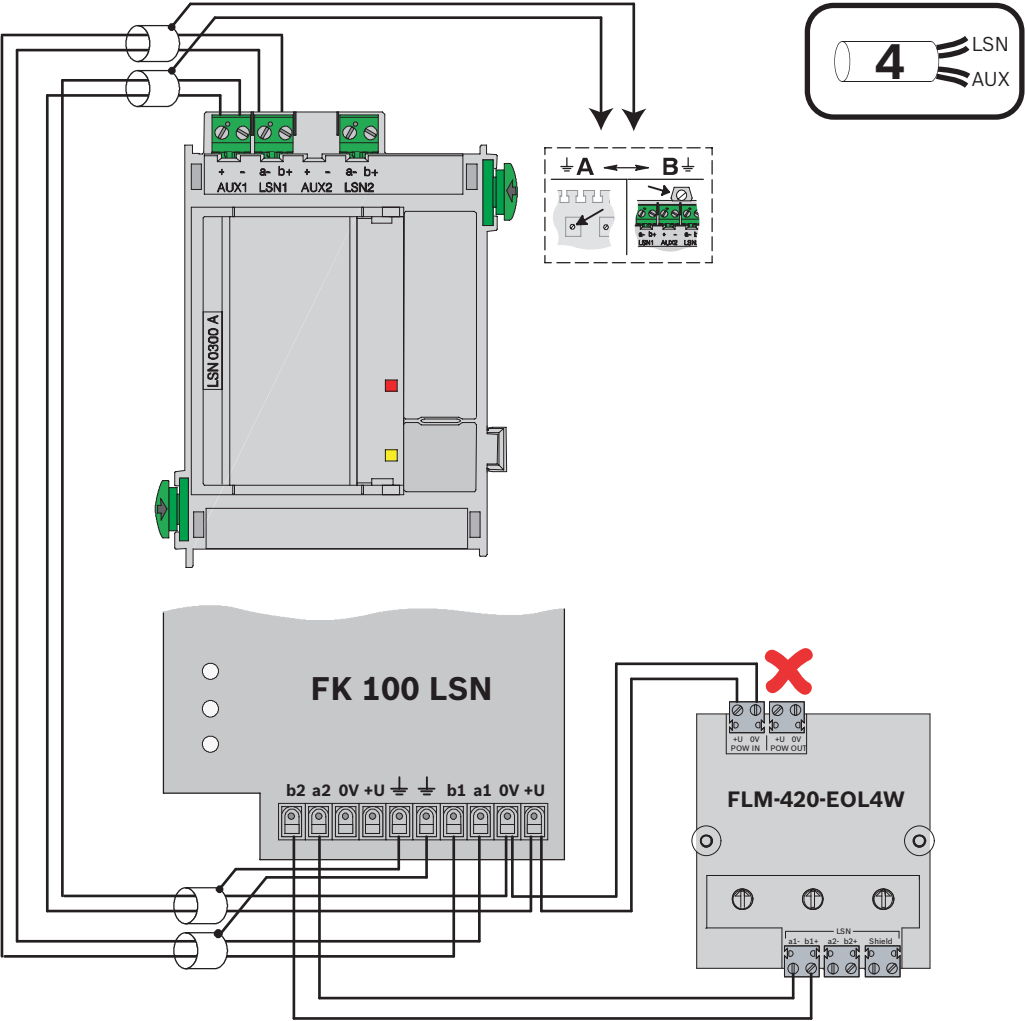
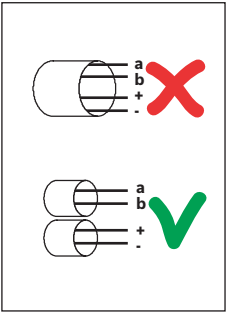


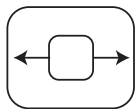


FK 100 LSN

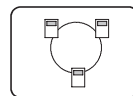


ELS VdS 2489

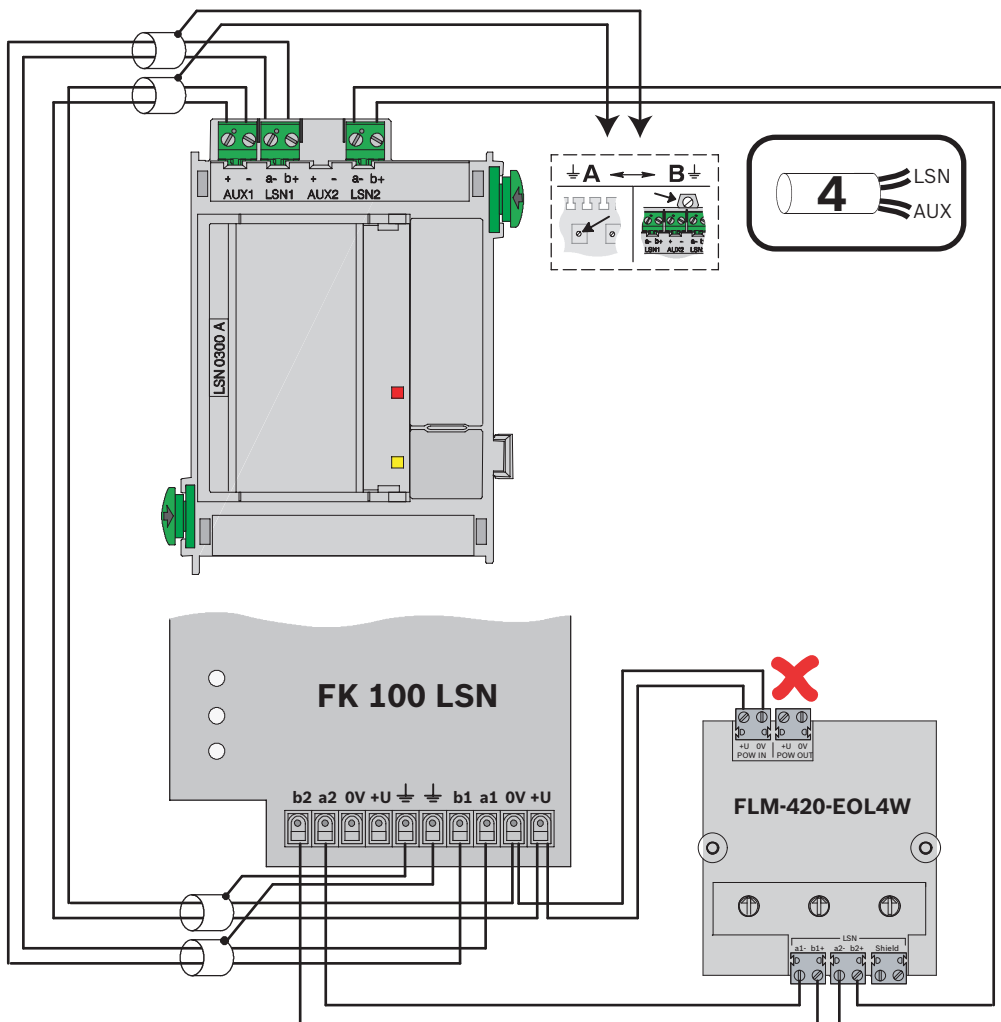
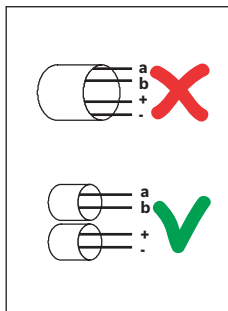




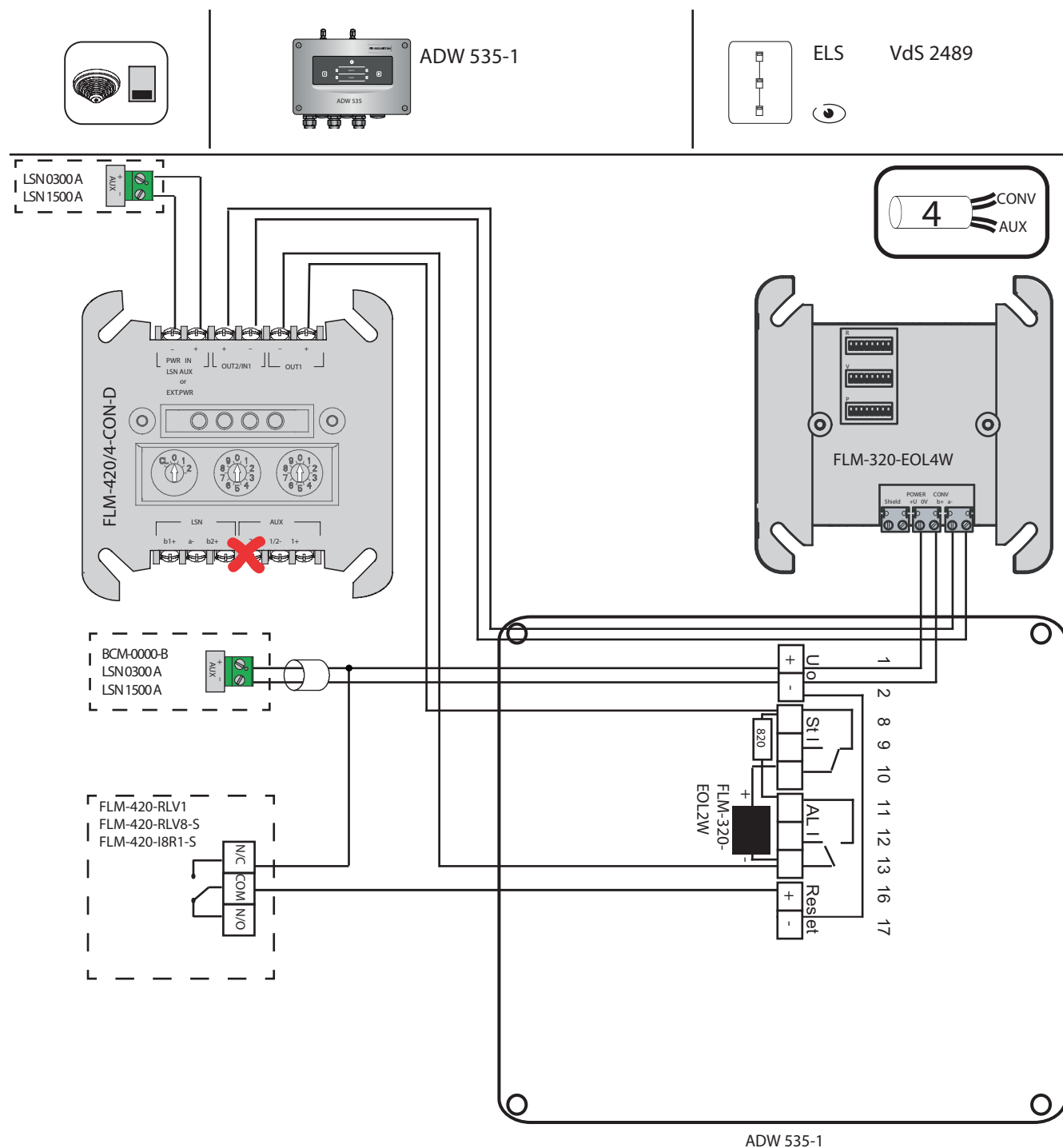
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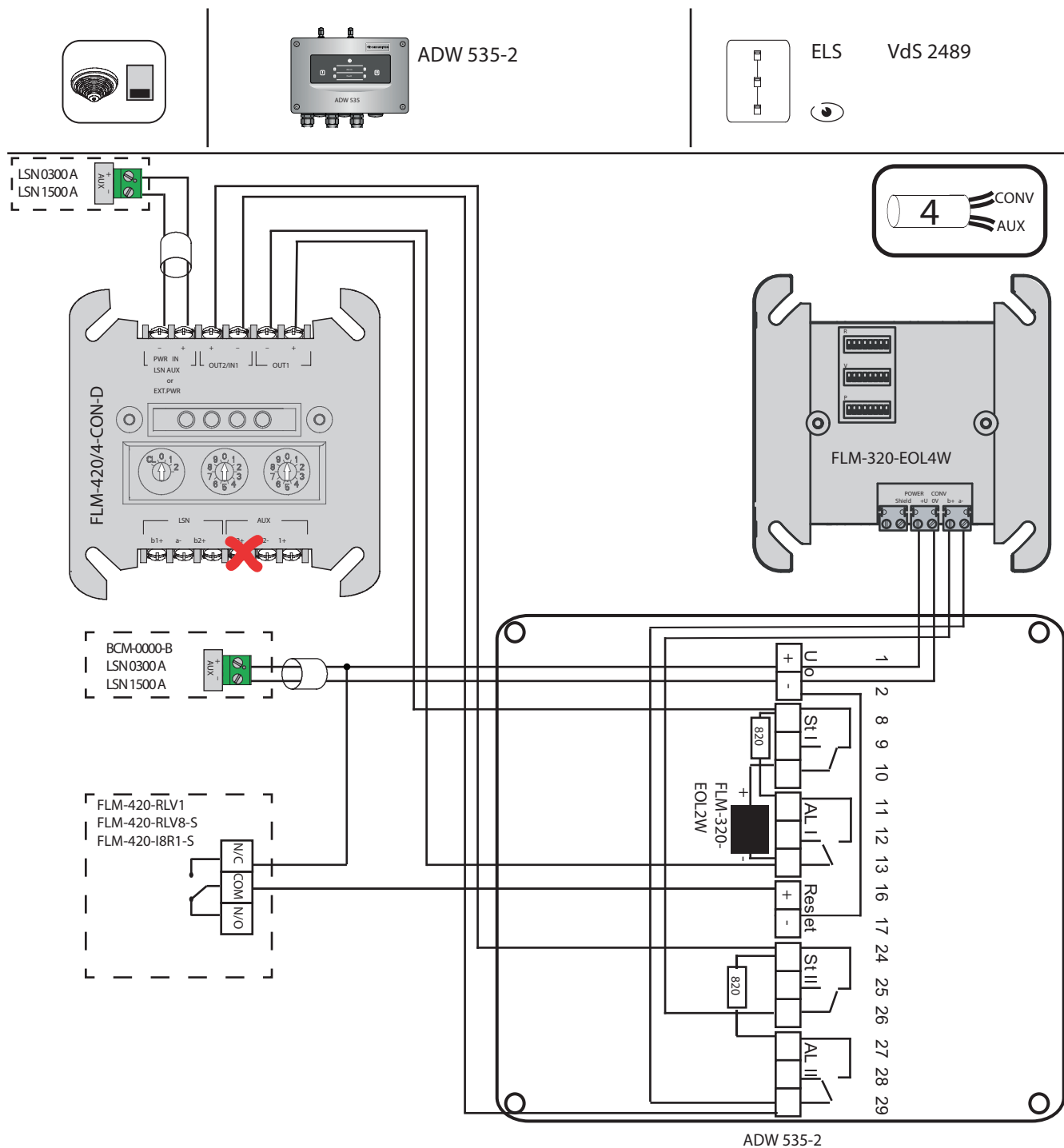


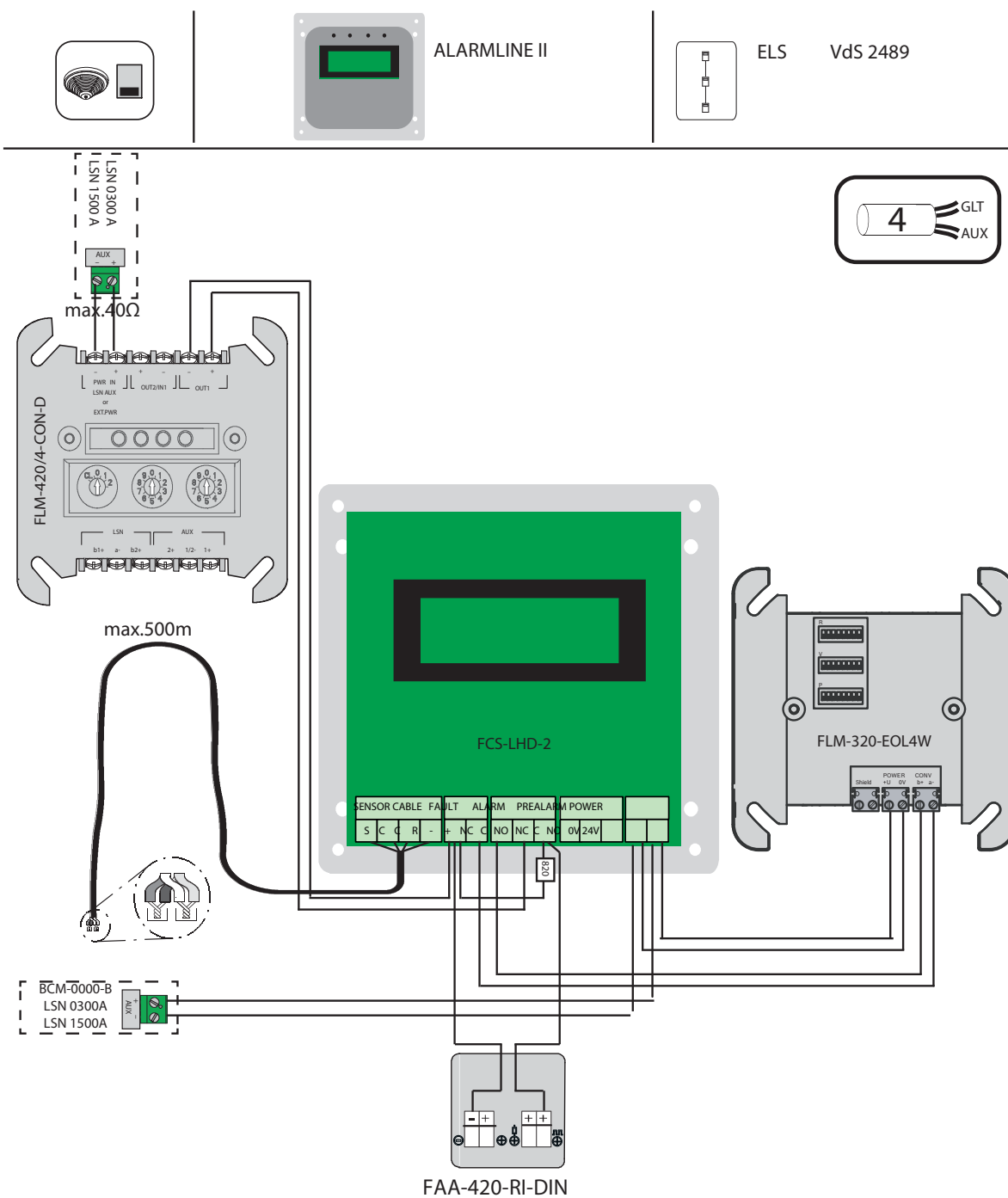
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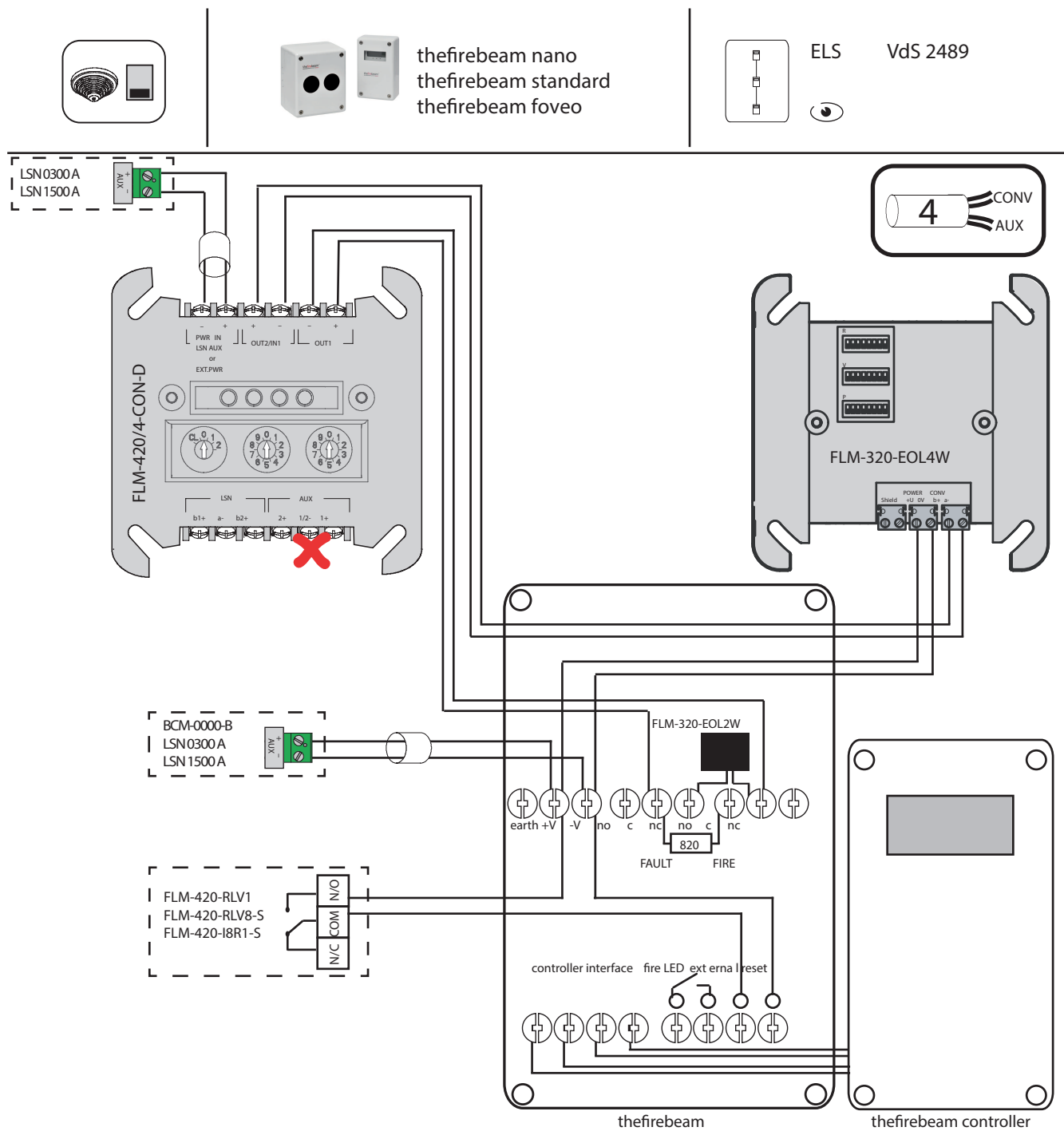
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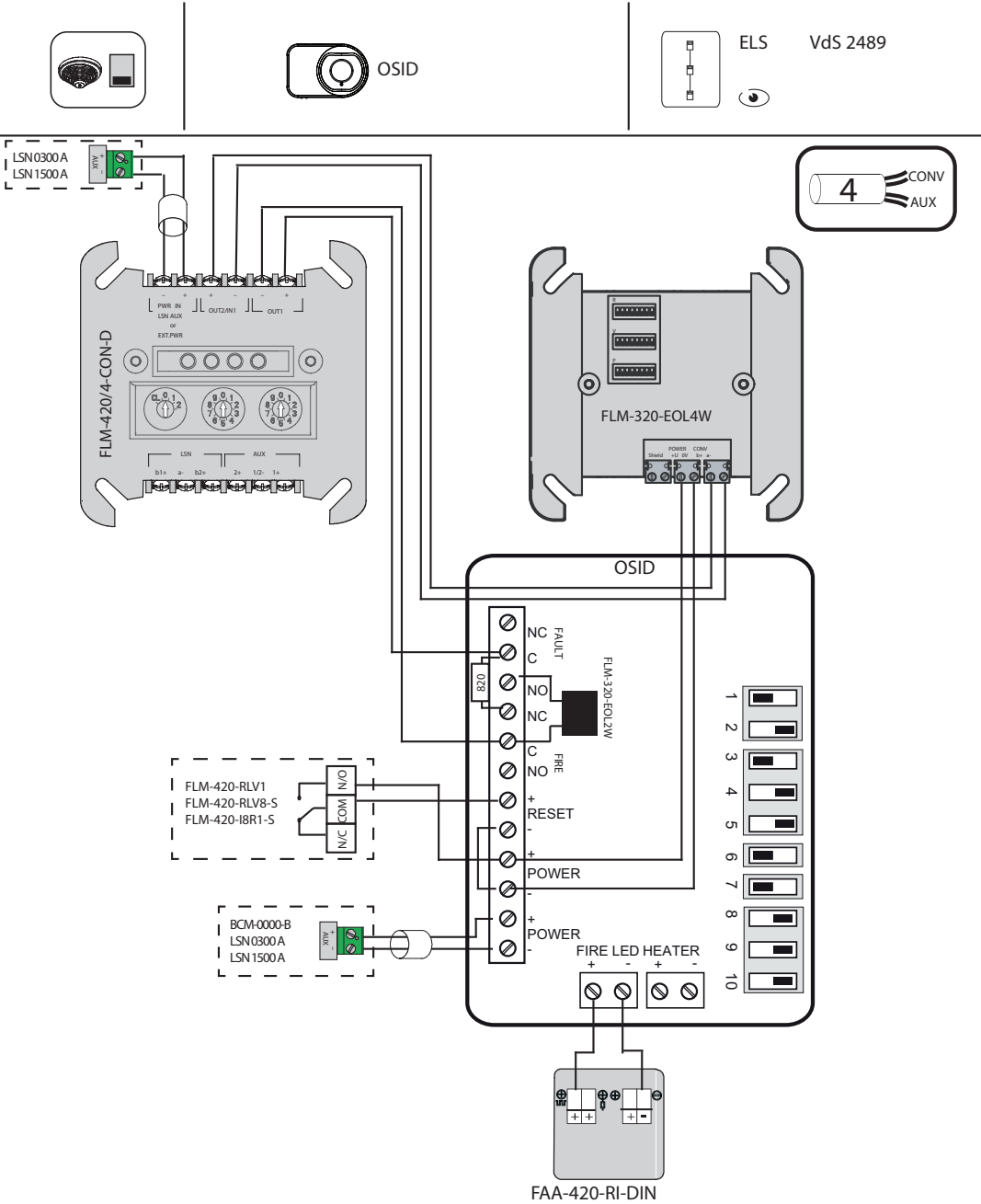


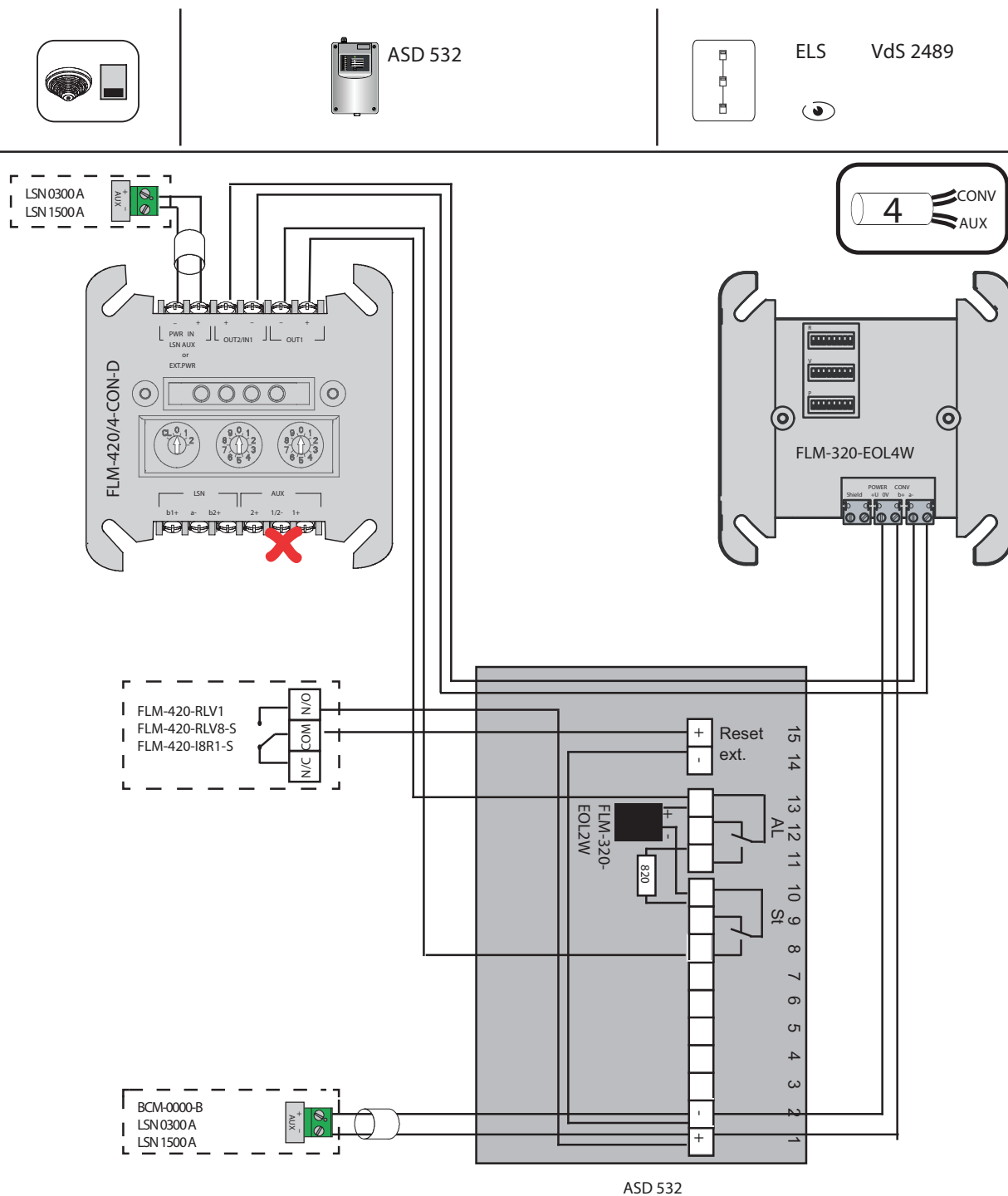








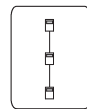






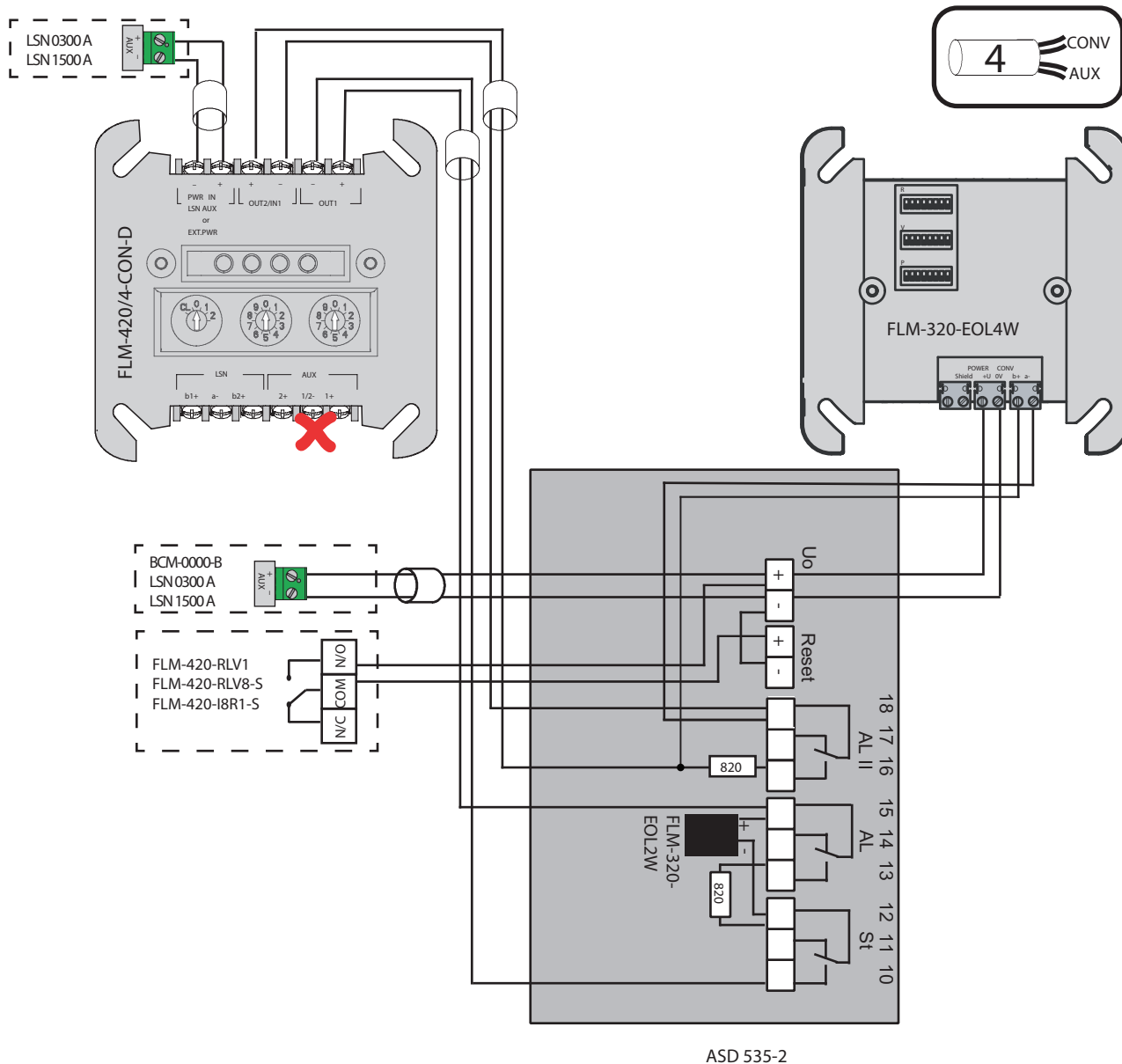


ASD 535-2

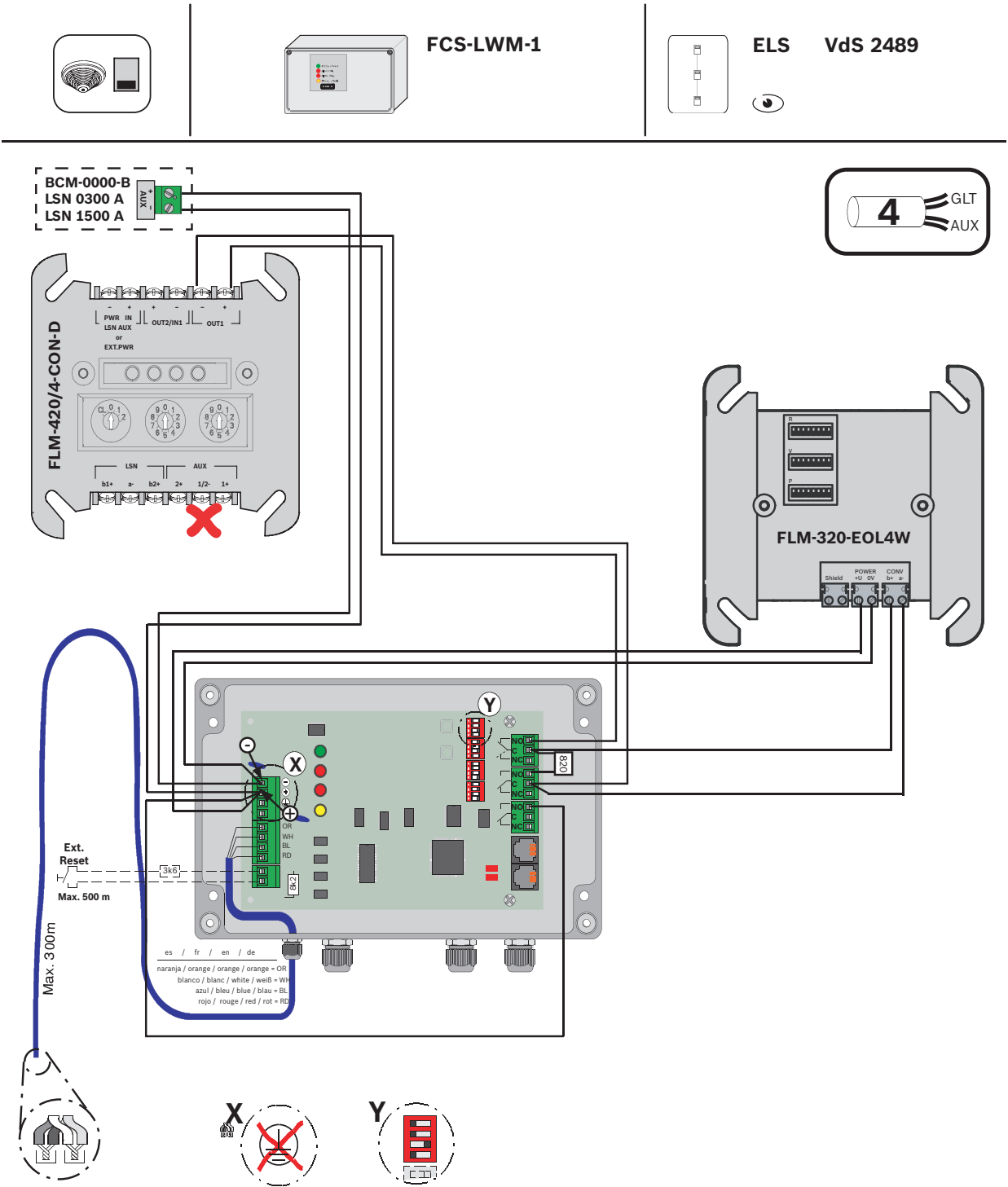


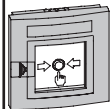
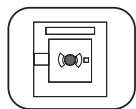
ELS

VdS 2489

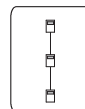


ASD 535-2



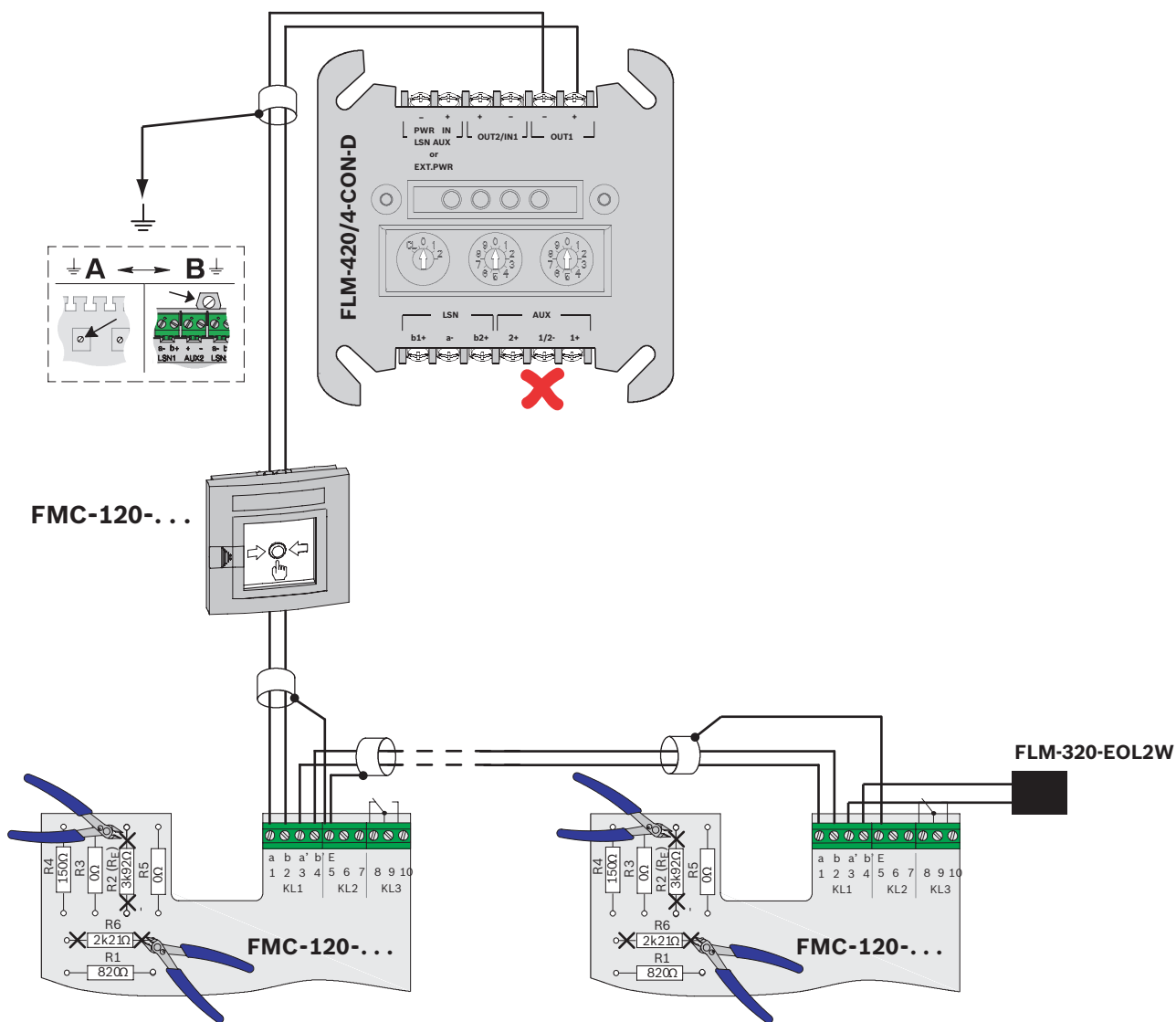


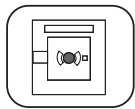
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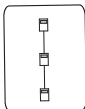
ELS

VdS 2489

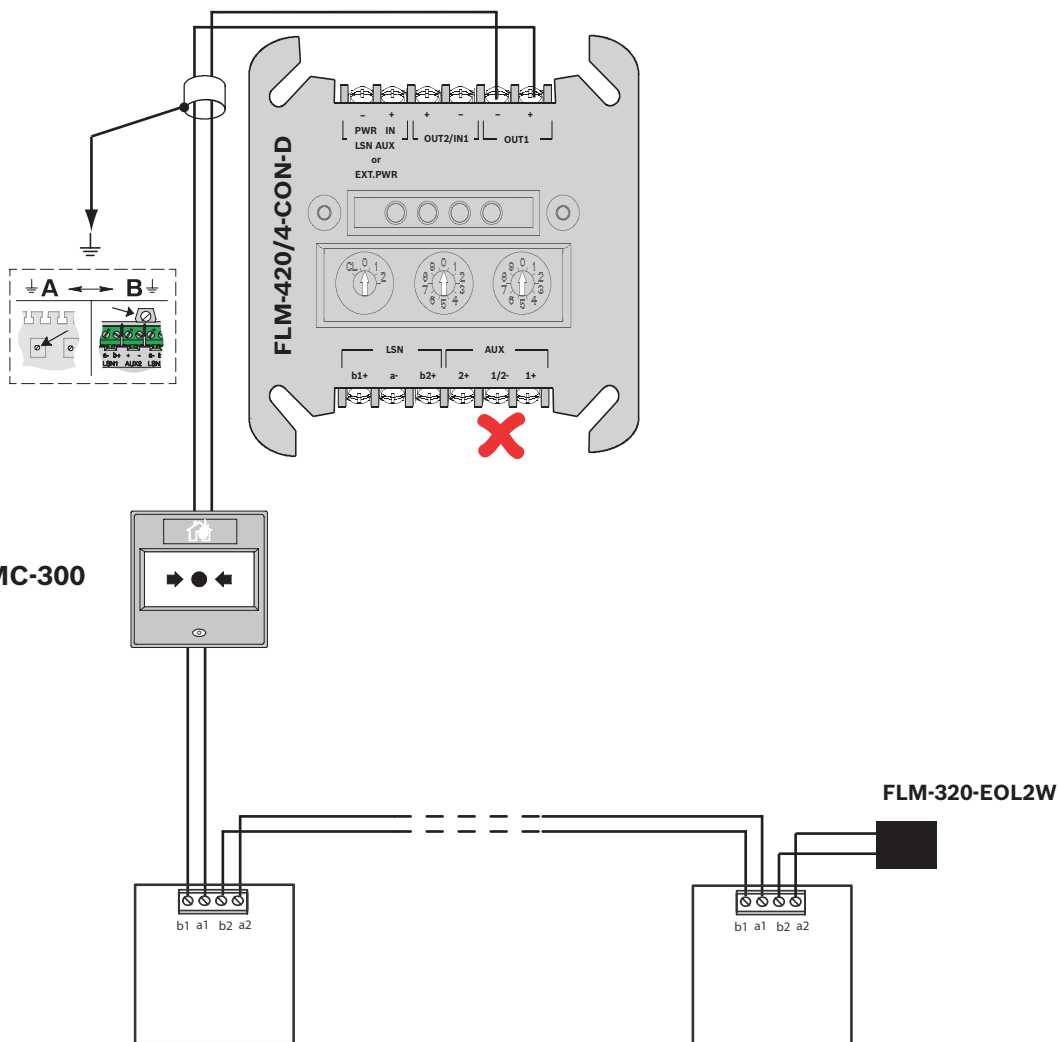




FMC-300



ELS VdS 2489



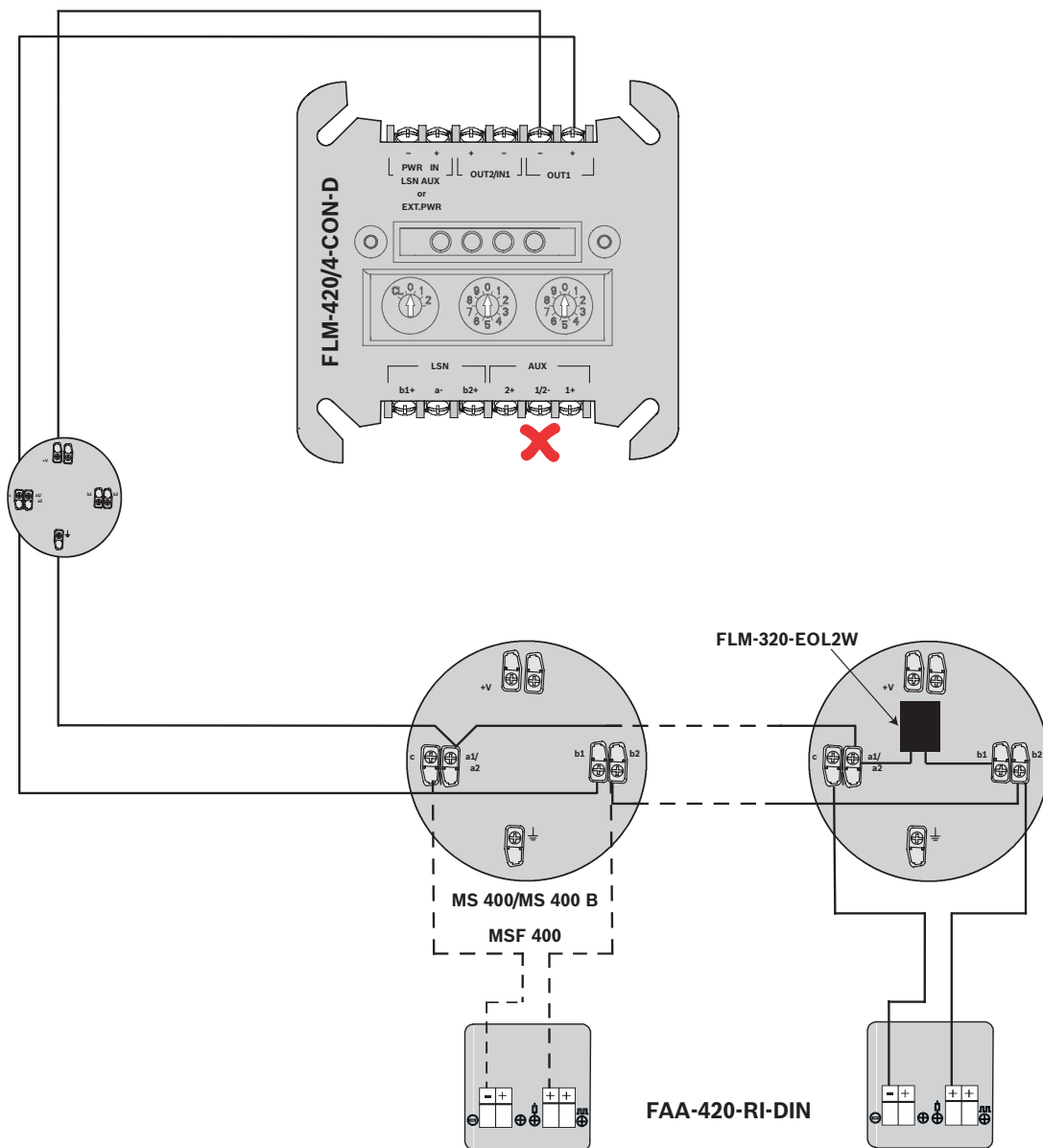


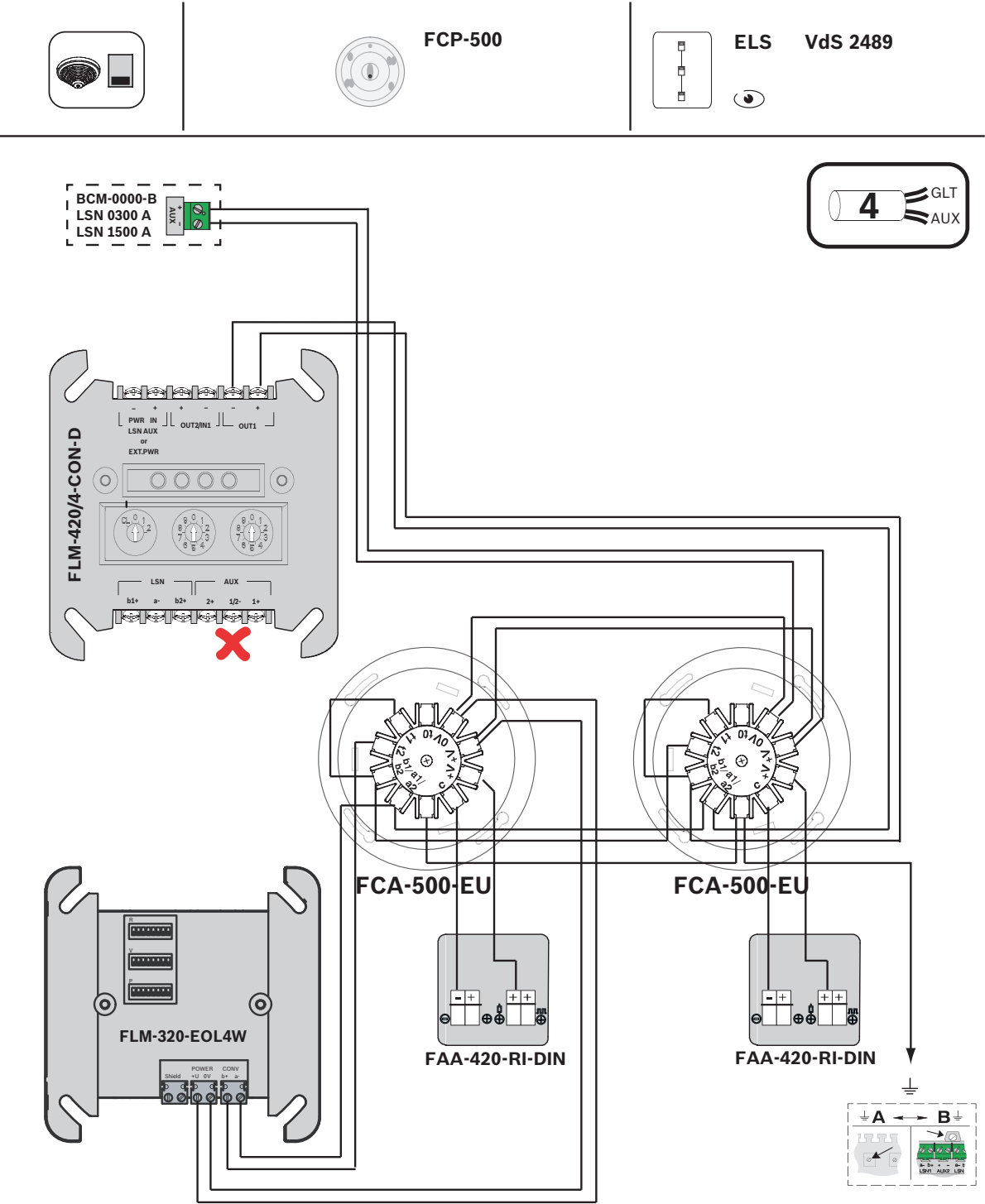


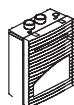
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FAP-425-DO-R/-DOT-R/-DOTC-R  
FCH-320-T320/-T320-R470/-T320-FSA  
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ELS VdS 2489







FCS-320-TM Series

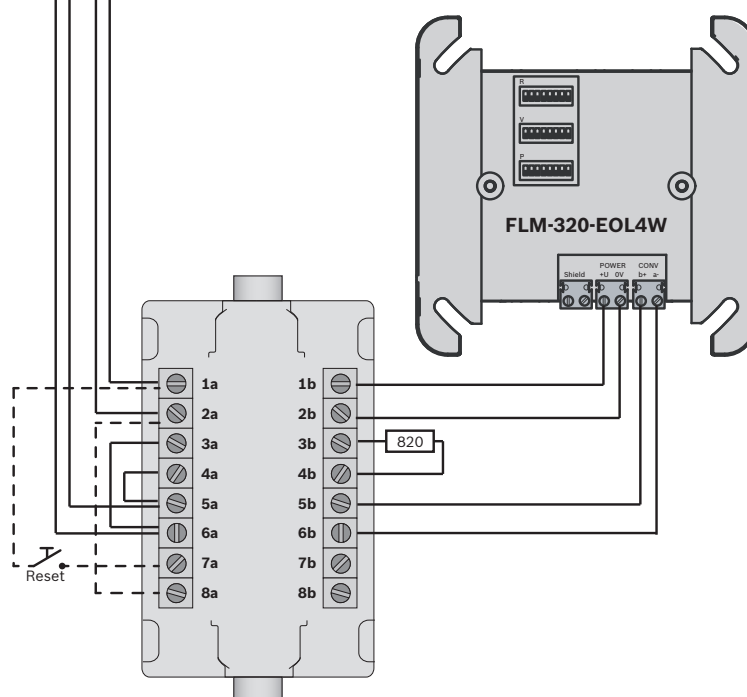
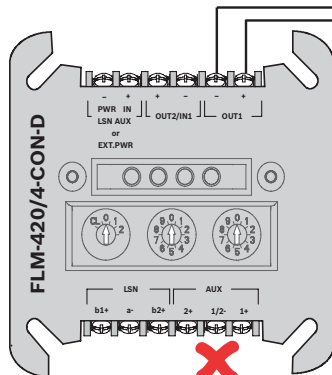
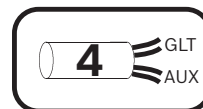


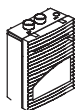
ELS VdS 2489



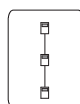
BCM-0000-B  
LSN 0300 A  
LSN 1500 A

AUX





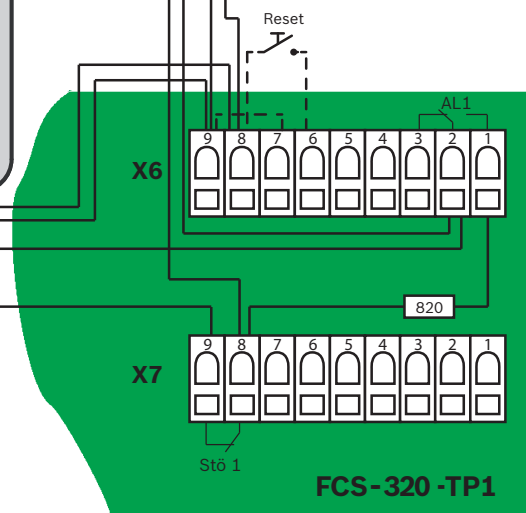
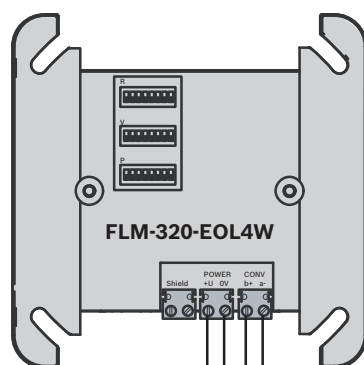
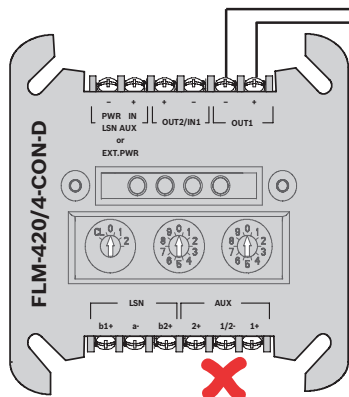
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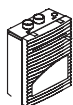


ELS VdS 2489



BCM-0000-B  
LSN 0300 A  
LSN 1500 A





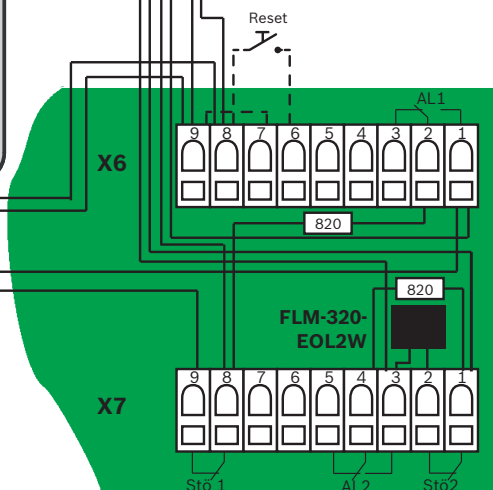
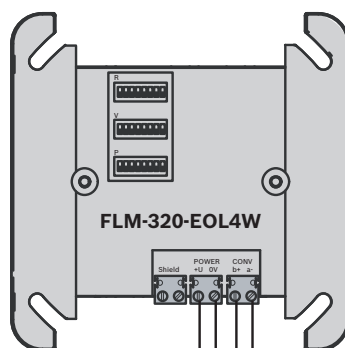
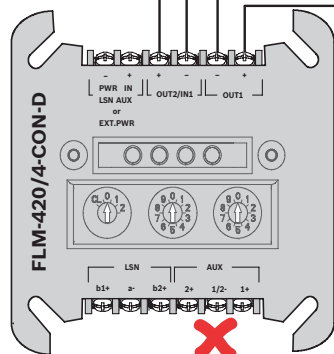
FCS-320-TP Series



ELS VdS 2489



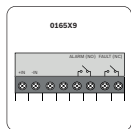
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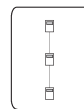
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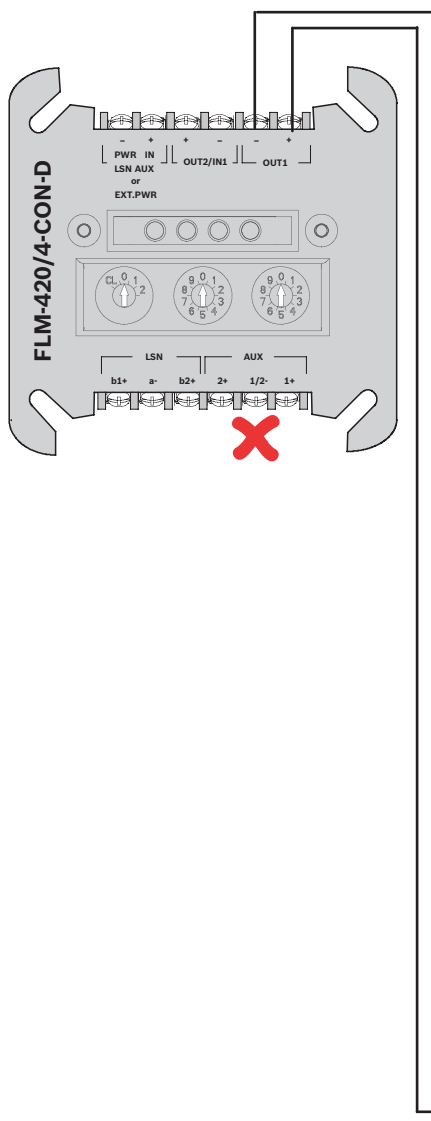


**016519, 016589**  
**IR3 Flame Detector**

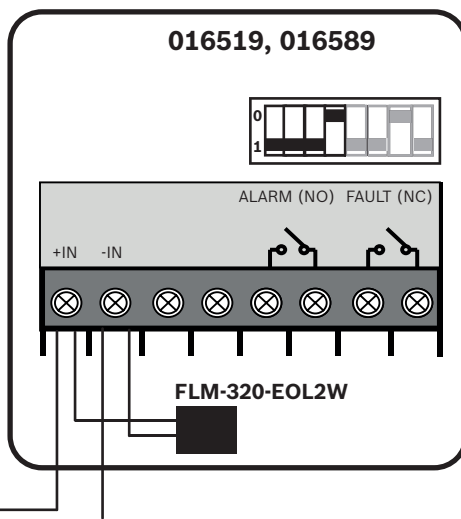


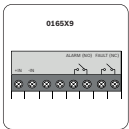
**ELS**

**VdS 2489**

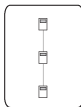


**max. 1 x 0165X9**

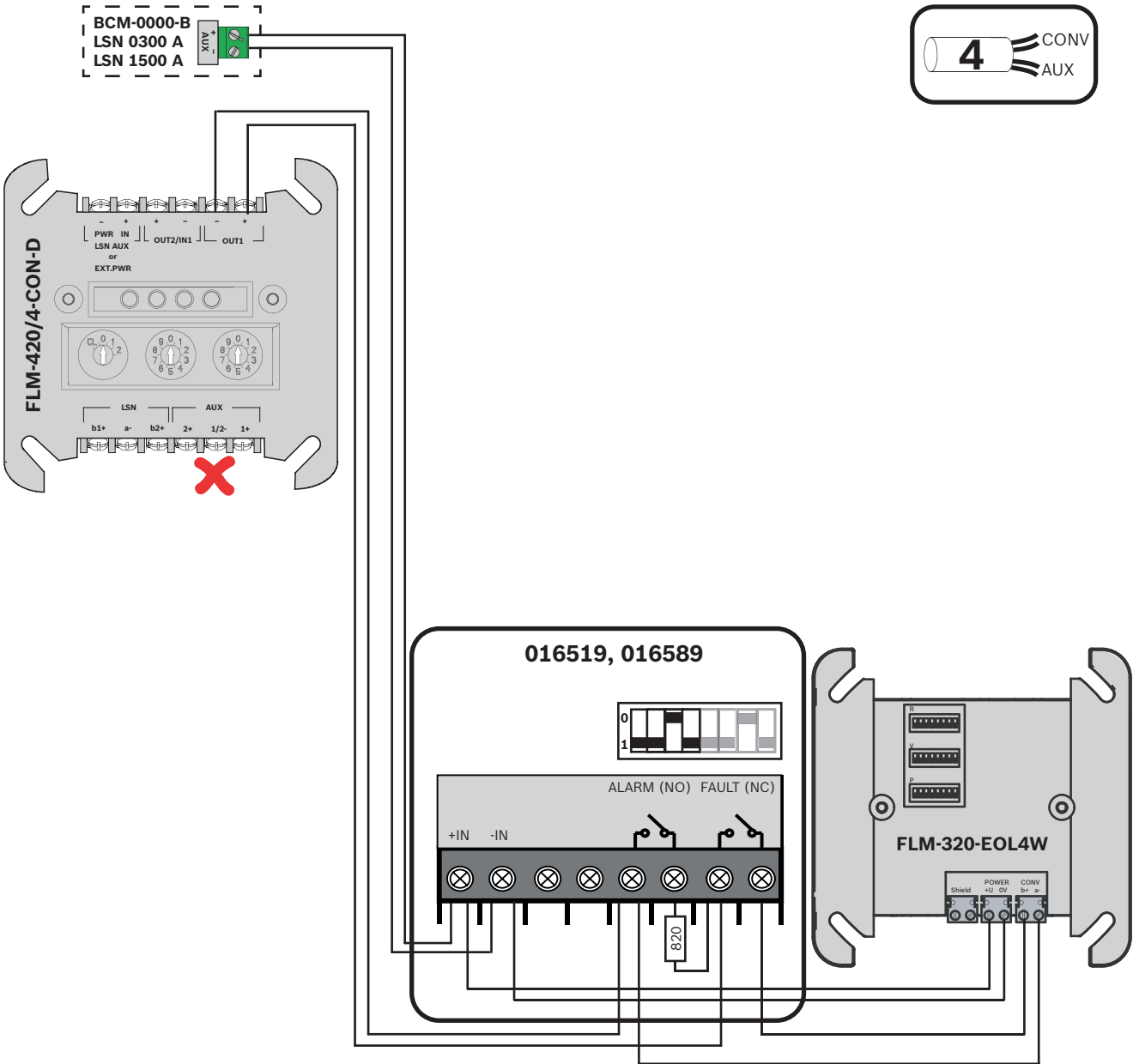




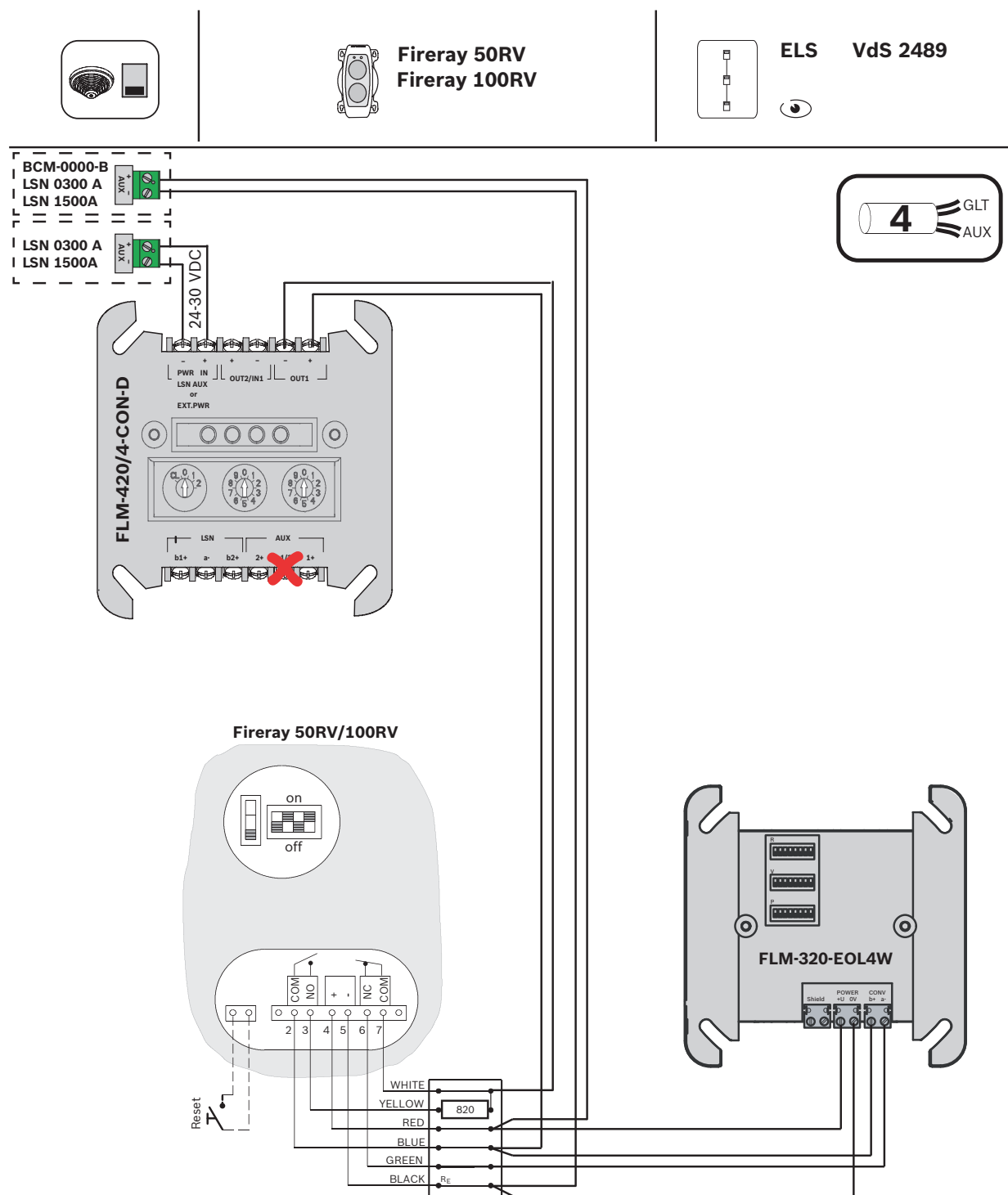
016519, 016589  
IR3 Flame Detector

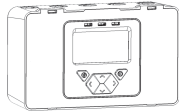


ELS VdS 2489









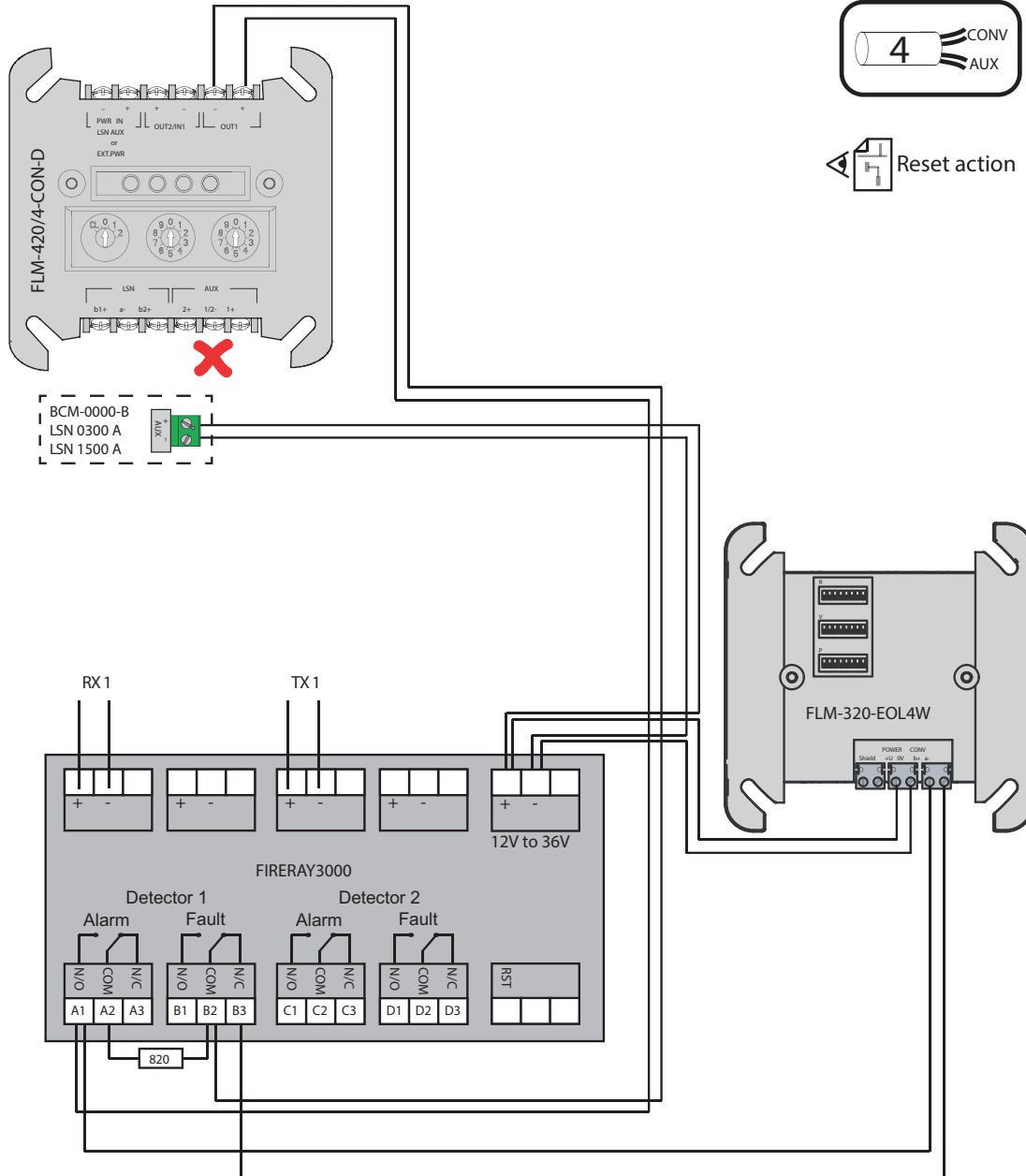
FIRERAY3000

1 x



ELS

VdS 2489





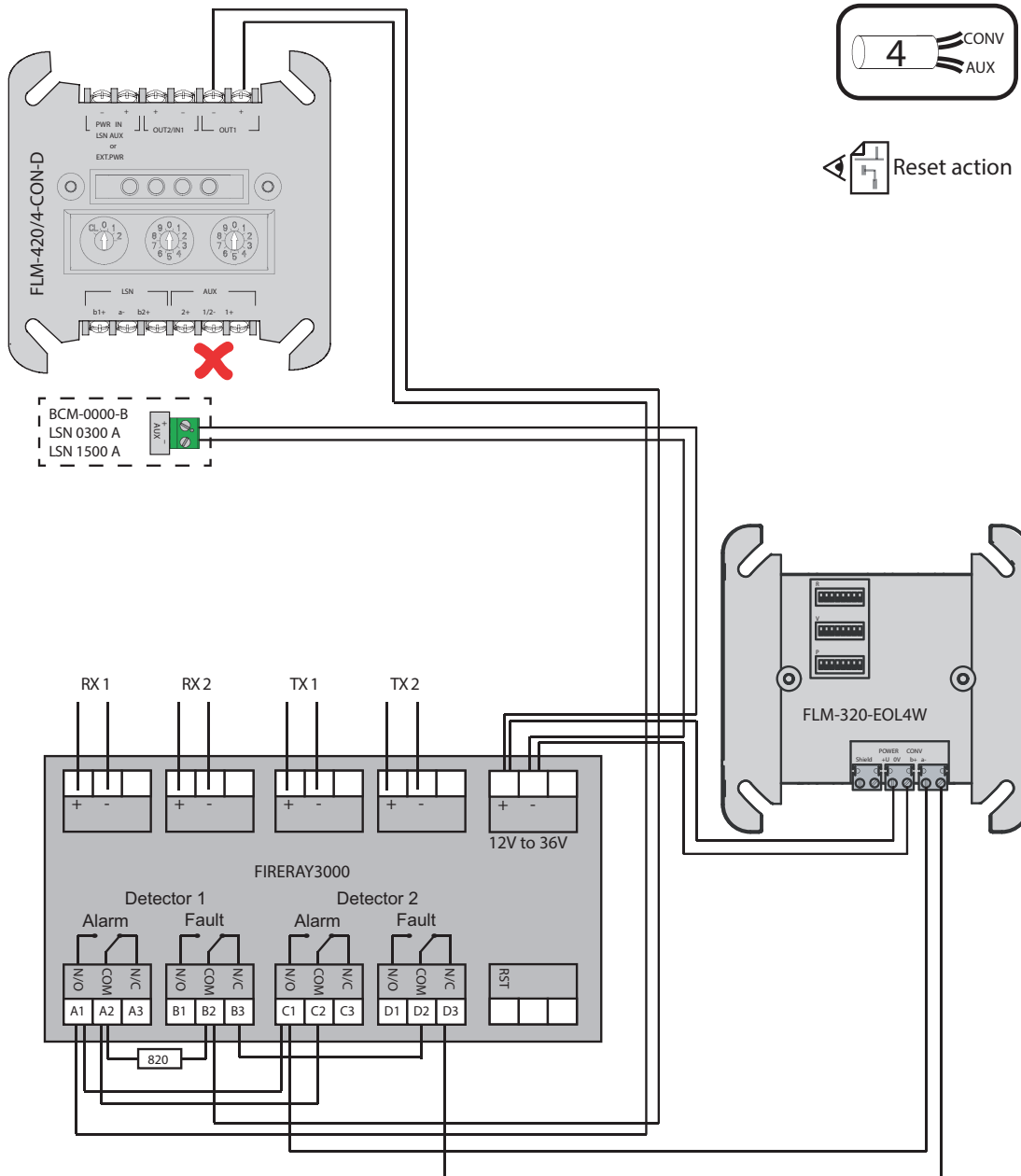
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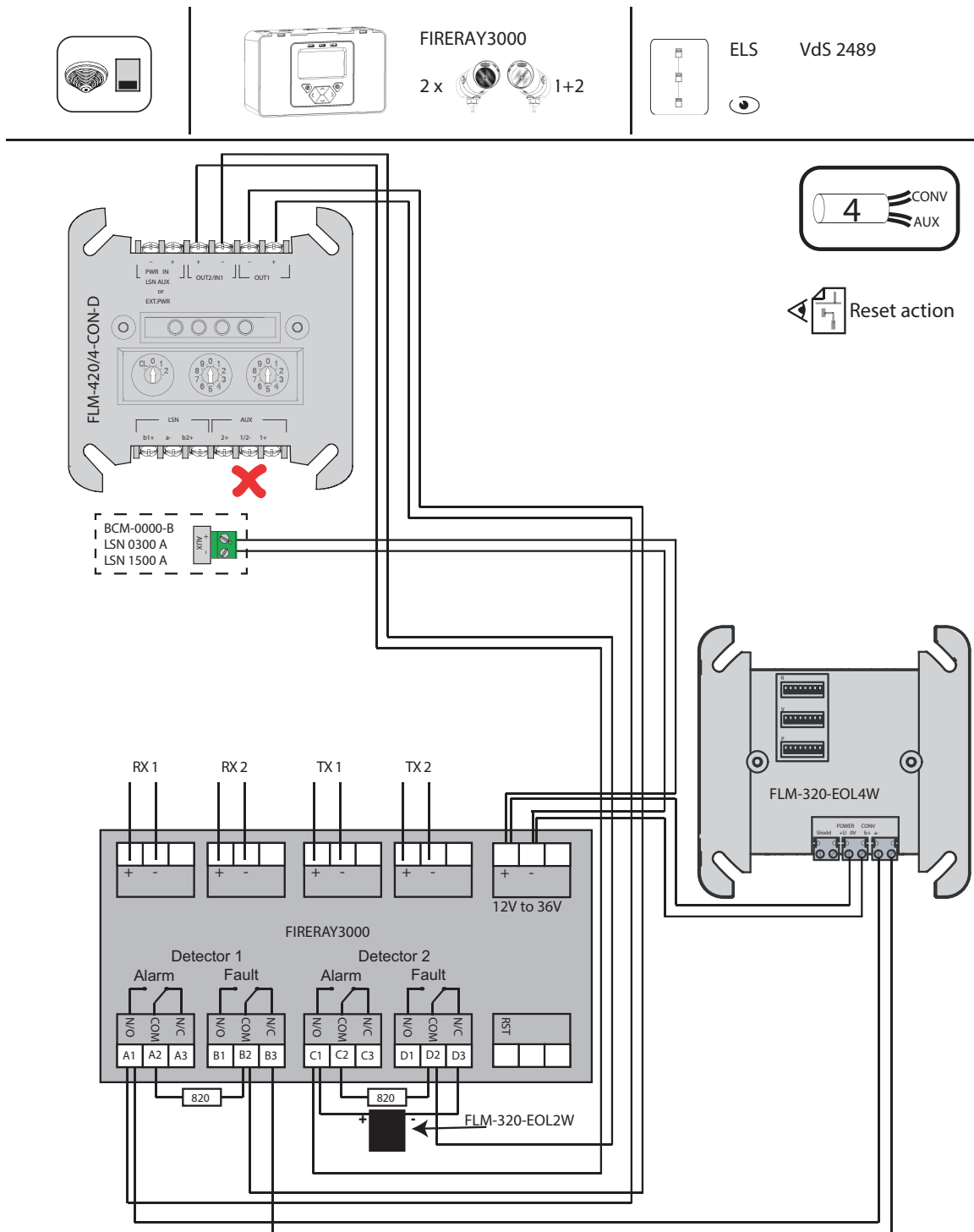
2 x 1



ELS

VdS 2489







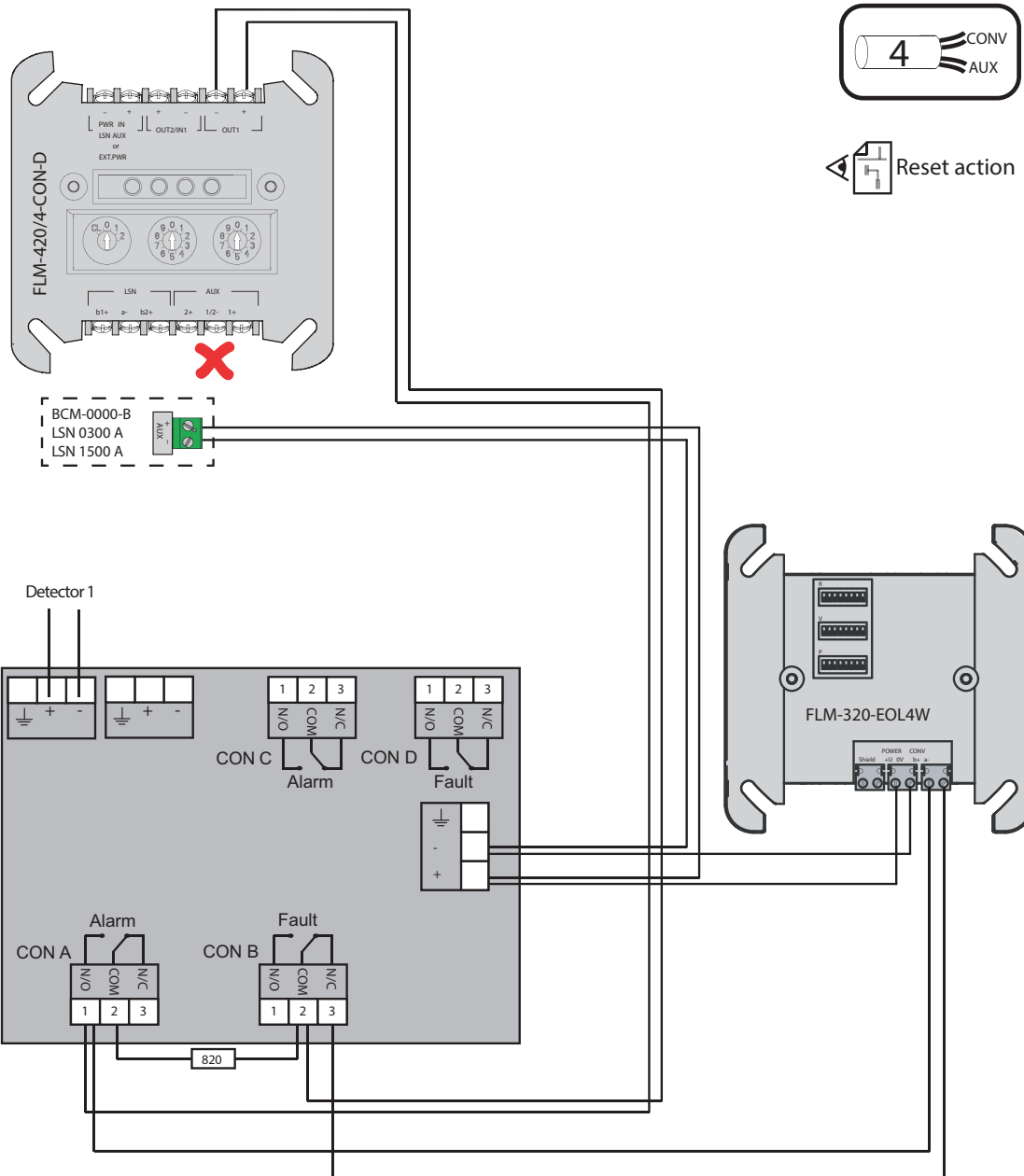
FIRERAY5000

1 x



ELS

VdS 2489

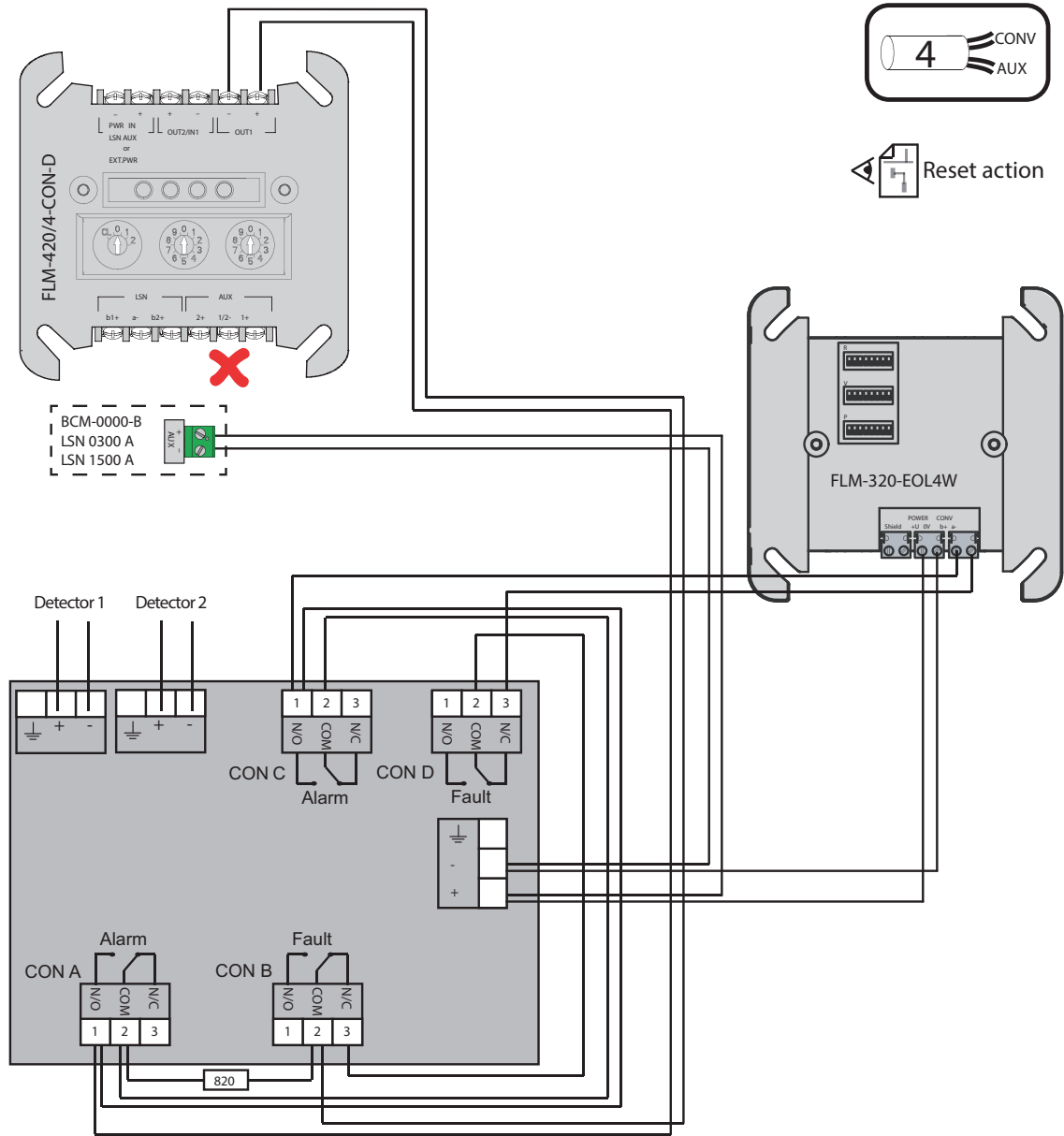


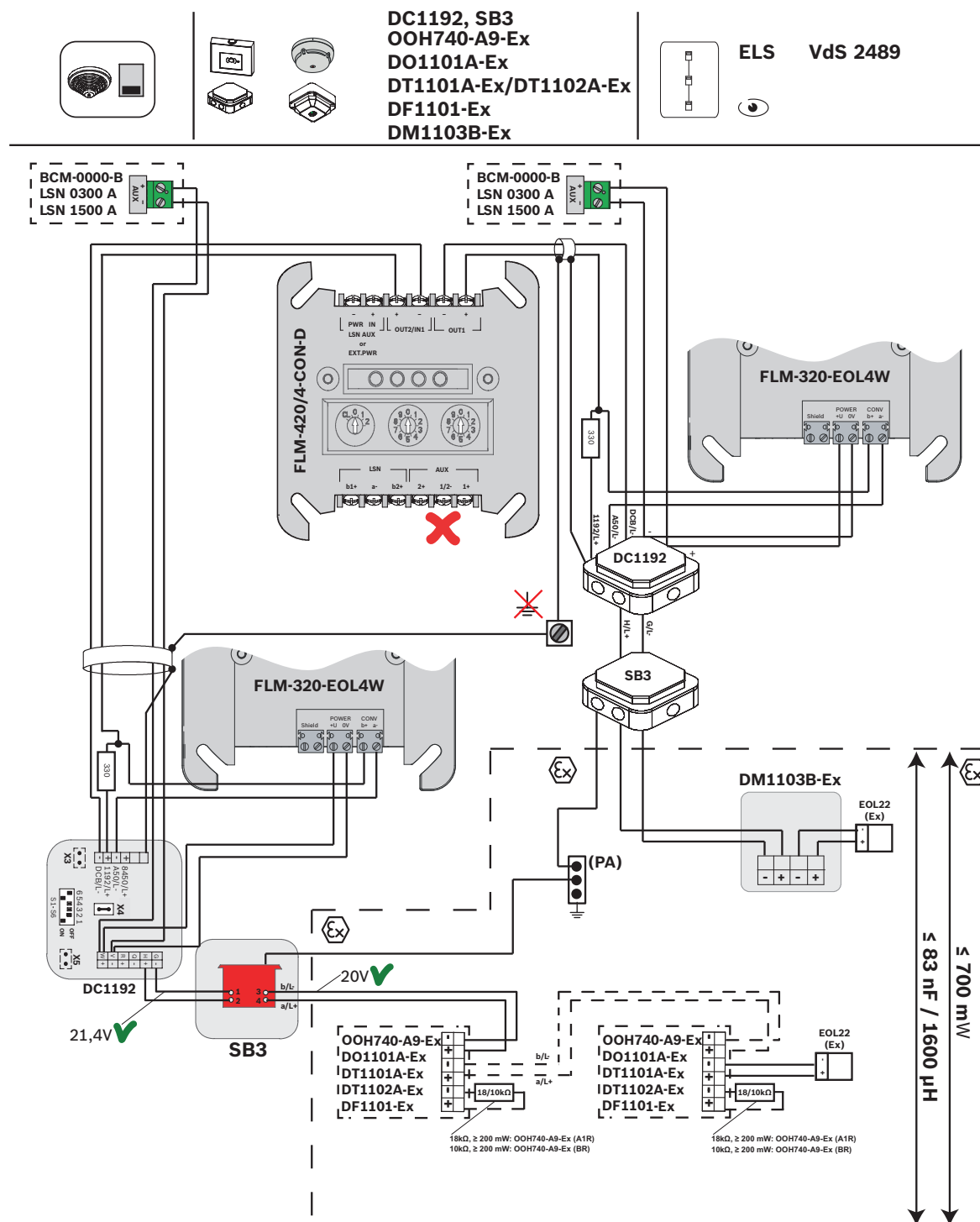


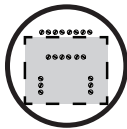
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ELS VdS 2489







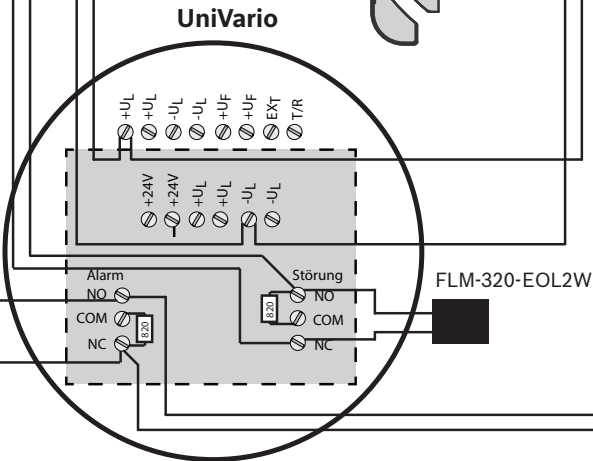
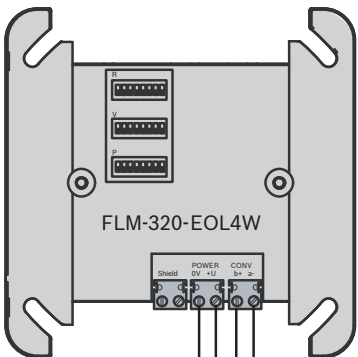
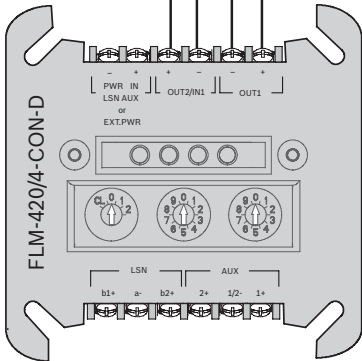
UniVario WMX5000  
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ELS VdS 2489



LSN 0300 A  
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