

Modulair Brandmeldcentrale

FPA-5000



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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 (erroneus 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 Opmerkingen

2.1 Inhoud

In deze bedradingshandleiding wordt de aansluiting van randapparatuur op de brandmeldcentrale beschreven.

Randapparatuur die niet langer deel uitmaakt van het productassortiment, wordt beschreven in "Part 2 - Discontinued Products" van de bedradingshandleiding.

**Bericht!**

De beschreven aansluitingen zijn tevens van toepassing op de FPA-1200, mits de afzonderlijke componenten door Bosch Sicherheitssysteme GmbH goedgekeurde uitbreidingen van de FPA-1200 Brandmeldcentrale zijn.

**Bericht!**

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

2.2 Productinformatie

- Lees de meegeleverde installatiehandleiding voor installatie-instructies bij de afzonderlijke componenten van de brandmeldcentrale.

2.3 Belangrijke opmerkingen

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

**Gevaar!**

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

**Bericht!**

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

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

2.4 Opmerkingen voor de gebruiker

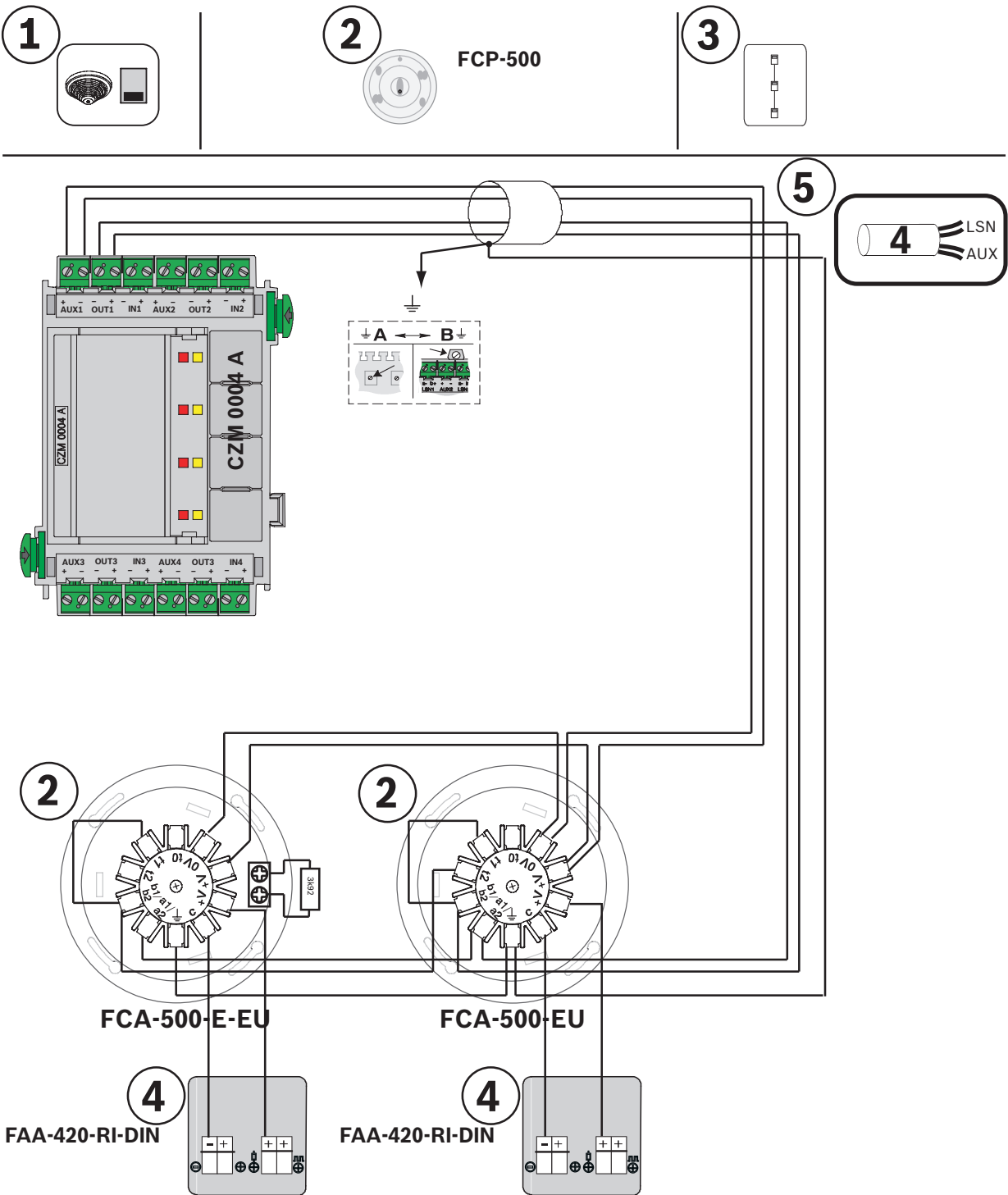
Het bedradingsschema is als volgt samengesteld:

- Hoofdstuk *Bekabeling, pagina 19* is gesorteerd op het apparaat waarop een randapparaat is aangesloten. Een bedrading geeft de directe verbinding van een apparaat met een ander apparaat aan (geen trapsgewijze verbindingen). Afscherming wordt gewoonlijk niet aangegeven in de bedradingen. In de volgende bedrading ziet u een voorbeeld van de afscherming.
- Zoek een verzameling met alle bedradingen waaraan extra EOL-modules zijn toegevoegd voor bewaking van onderbreking door lekstroom in de sectie EOL.

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

- de inhoudsopgave aan het begin van het hoofdstuk *Bekabeling, pagina 19* en aan het begin van de gedeelten *Functionele modules, pagina 49, Interfacemodules, pagina 137* en EOL.
- de Index (taalonafhankelijk)
- en de zoekfunctie in volledige tekst.

Zie het bekabelingsvoorbeeld hieronder:



1	Hoofdstukpictogrammen (<i>Hoofdstukpictogrammen, pagina 15</i>)
2	Aan te sluiten randapparaat
3	Aansluitingspictogrammen (<i>Aansluitingspictogrammen, pagina 15</i>)
4	Optionele componenten
5	Voeding en bekabeling (<i>Voeding en bekabeling, pagina 16</i>)

Raadpleeg

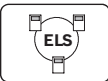
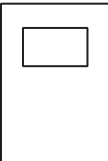
– EOL, pagina 181

2.4.1 Hoofdstukpictogrammen

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

2.4.2 Aansluitingspictogrammen

 	Bewaakte/niet-bewaakte aansluiting van conventionele randapparatuur of bewaakte/niet-bewaakte conventionele uitgangen van signaleringsapparaten. (EOL-weerstand in CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A aansluiting of droog contact aansluitingen met interfacemodule.)	 	In deze aansluiting van conventionele randapparatuur kan een feedbacklijn worden aangesloten. / Het doorgestreepte symbool betekent dat een feedbacklijn niet noodzakelijk of niet aanbevolen is. (FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A aansluitingen) Een ingangslijn kan ook worden gebruikt als feedbacklijn (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1...).		Redundantie
	Lusbedrading		Lusbedrading met redundant element		Steeklijnbedrading
	Redundante steeklijnbedrading		Steeklijnbedrading met redundant element		Redundante steeklijnbedrading met redundant element

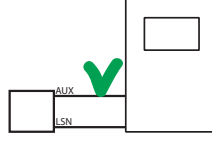
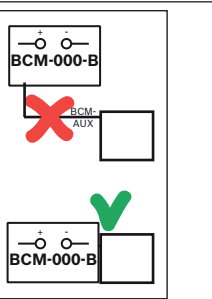
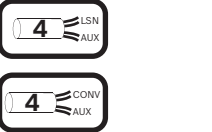
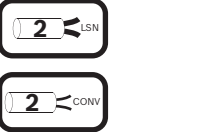
ELS	Deze bedrading is conform VdS 2543. ELS staat voor Extended Line Supervision (uitgebreide lijnbewaking), hetgeen wil zeggen bewaking van kortsluiting en onderbreking door lekstroom. Deze bedrading beschikt over ELS. U vindt alle bedradingen waaraan extra EOL-modules voor bewaking van onderbreking door lekstroom zijn toegevoegd in het hoofdstuk EOL. Kortsluiting wordt herkend door de volgende modules: LSN 0300 A, LSN 1500 A en BCM-0000-B bij gebruik van FPP-5000-TI13.		Deze lusbedrading is conform VdS 2543. De bedrading biedt ELS. Extra EOL-modules zijn niet nodig.		Synchronisatie
	Omgevingen met explosiegevaar		Centrale		Zelfstandige centrale
	Zelfstandige centrale met redundantie		Niet toegestaan		Voor meldersokkels: de bedrading is alleen geldig voor de meldersokkel waarin de melder is geïnstalleerd.
-----	Optionele bedrading	_____	Verplichte bedrading	EN 54-2, DIBT etc.	Indien conformiteit met deze norm is vereist, gebruikt u de gespecificeerde bedrading.

2.4.3

Voeding en bekabeling



Extra voeding

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

2.5

Weerstandswaarden

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

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

Kleur	1. band	2. band	3. band	4. band (vermenigvuldigingsfactor)	5. band (tolerantie)
Paars	7	7	7	10^7	$\pm 0.1\%$
Grijs	8	8	8	10^8	$\pm 0.01\%$
Wit	9	9	9	10^9	

Conform DIN EN 60062:2017

Oranje — wit — zwart — bruin — bruin: 3,9 kOhm weerstand met 1% tolerantie,

Rood — rood — zwart — bruin — bruin: 2,2 kOhm weerstand met 1% tolerantie.

3

Bekabeling



FPP-5000 Power supply, pagina 20

DIBT, pagina 22

Functionele modules, pagina 49

BCM-0000-B, pagina 50

CZM 0004 A, pagina 52

ENO 0000 A/B, pagina 56

LSN 0300 A, pagina 63

NZM 0002 A, pagina 98

RMH 0002 A, pagina 114

IOS 0020 A, pagina 117

FPE-5000-UGM, pagina 132

Interfacemodules, pagina 137

FLM-420/4-CON-D/S, pagina 138

FLM-420-NAC-D/S, pagina 163

FLM-420-RLE-S, pagina 176

FLM-420-RLV1-E, pagina 177

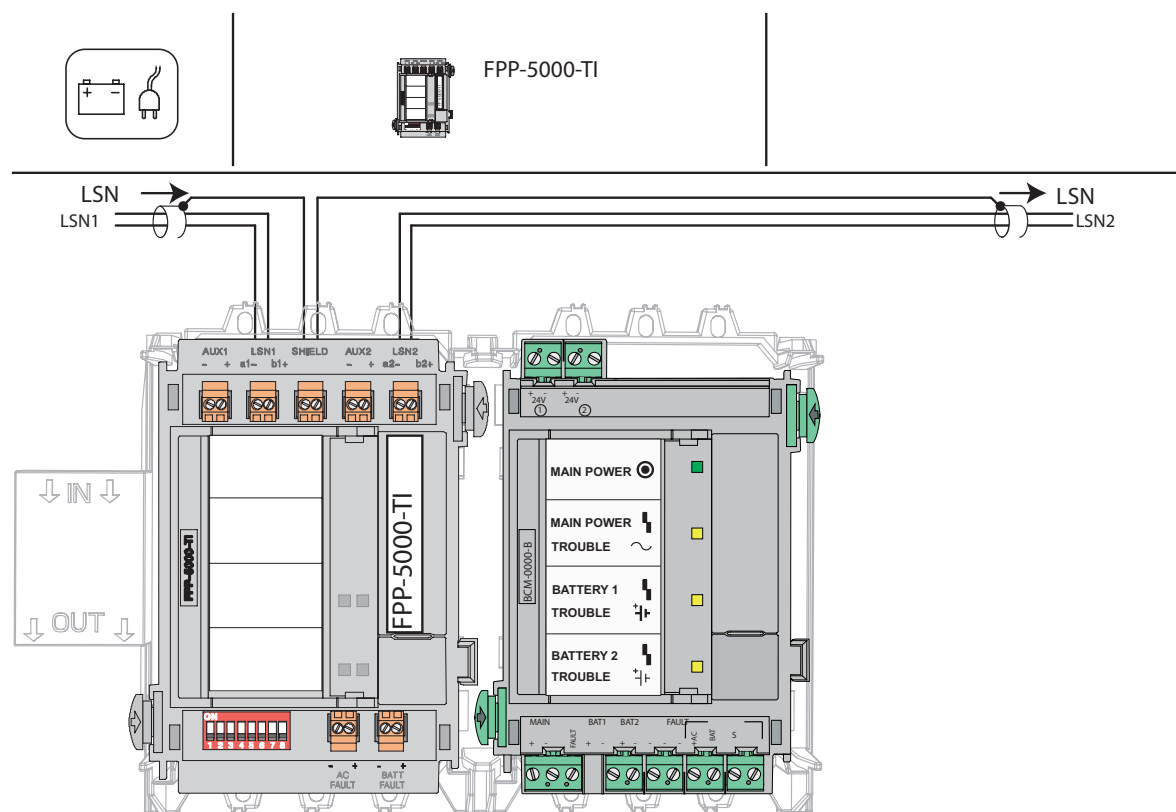
FLM-420-RLV8-S, pagina 178

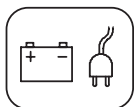
EOL, pagina 181

LSN 0300 A, pagina 182

FLM-420/4-CON-S/D, pagina 224

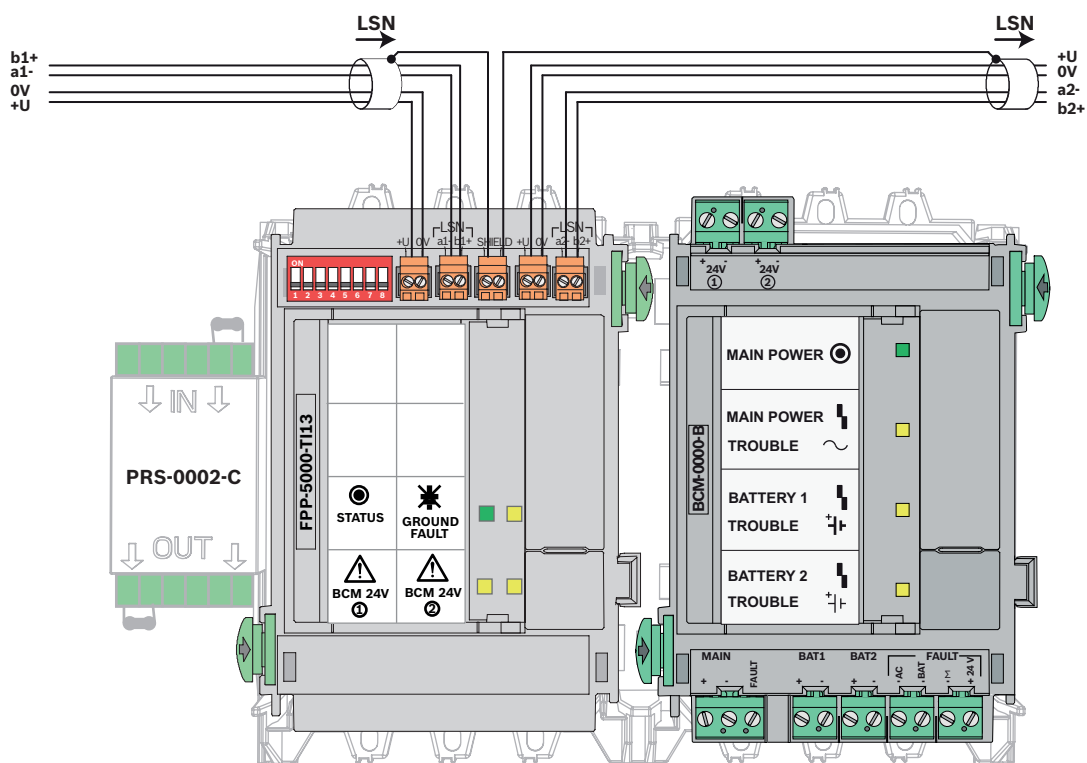
3.1 FPP-5000 Power supply





FPP-5000-TI13

ELS VdS 2489

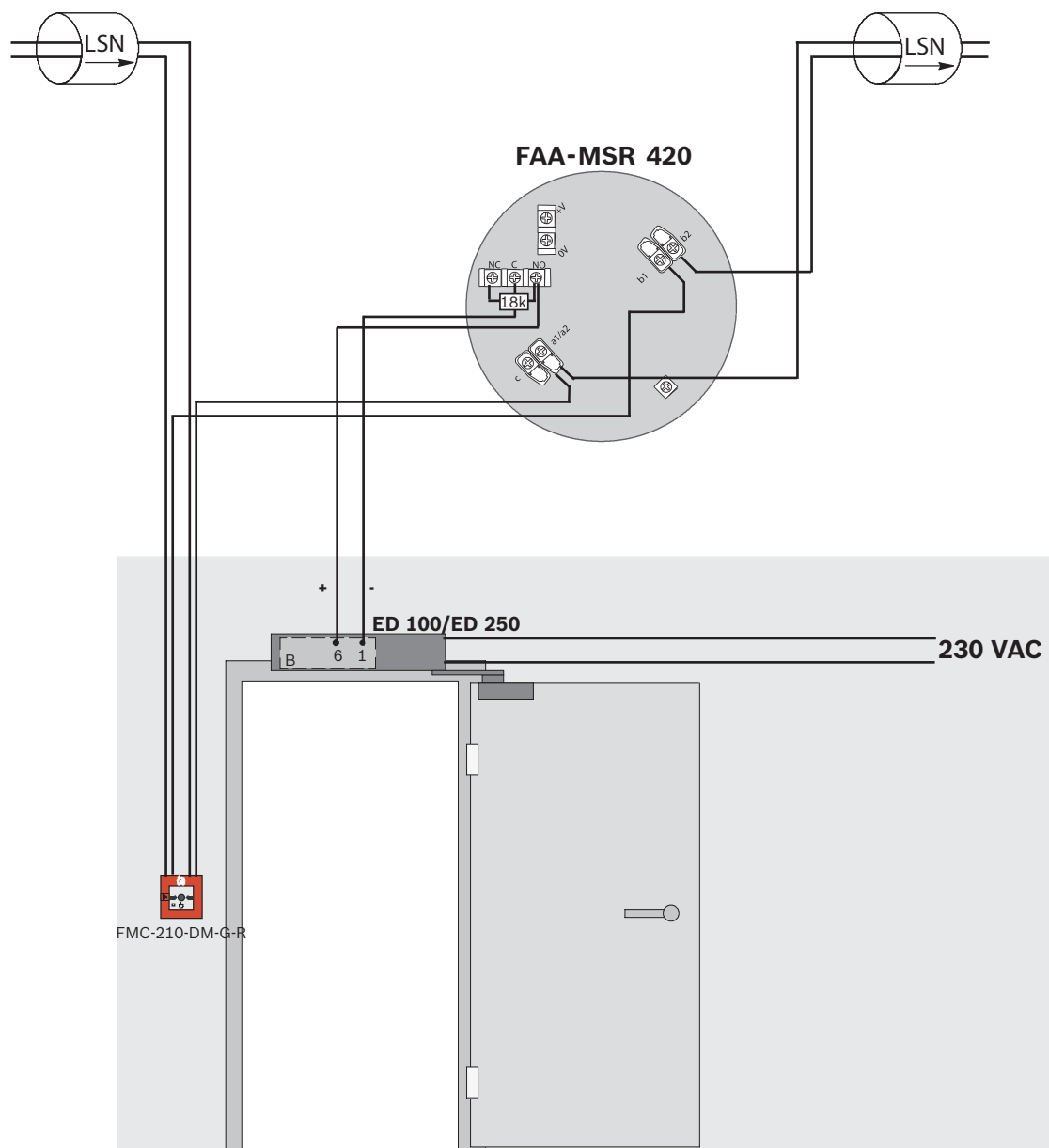


3.2 DIBT



ED 100
ED 250
(+Upgrade Card B)

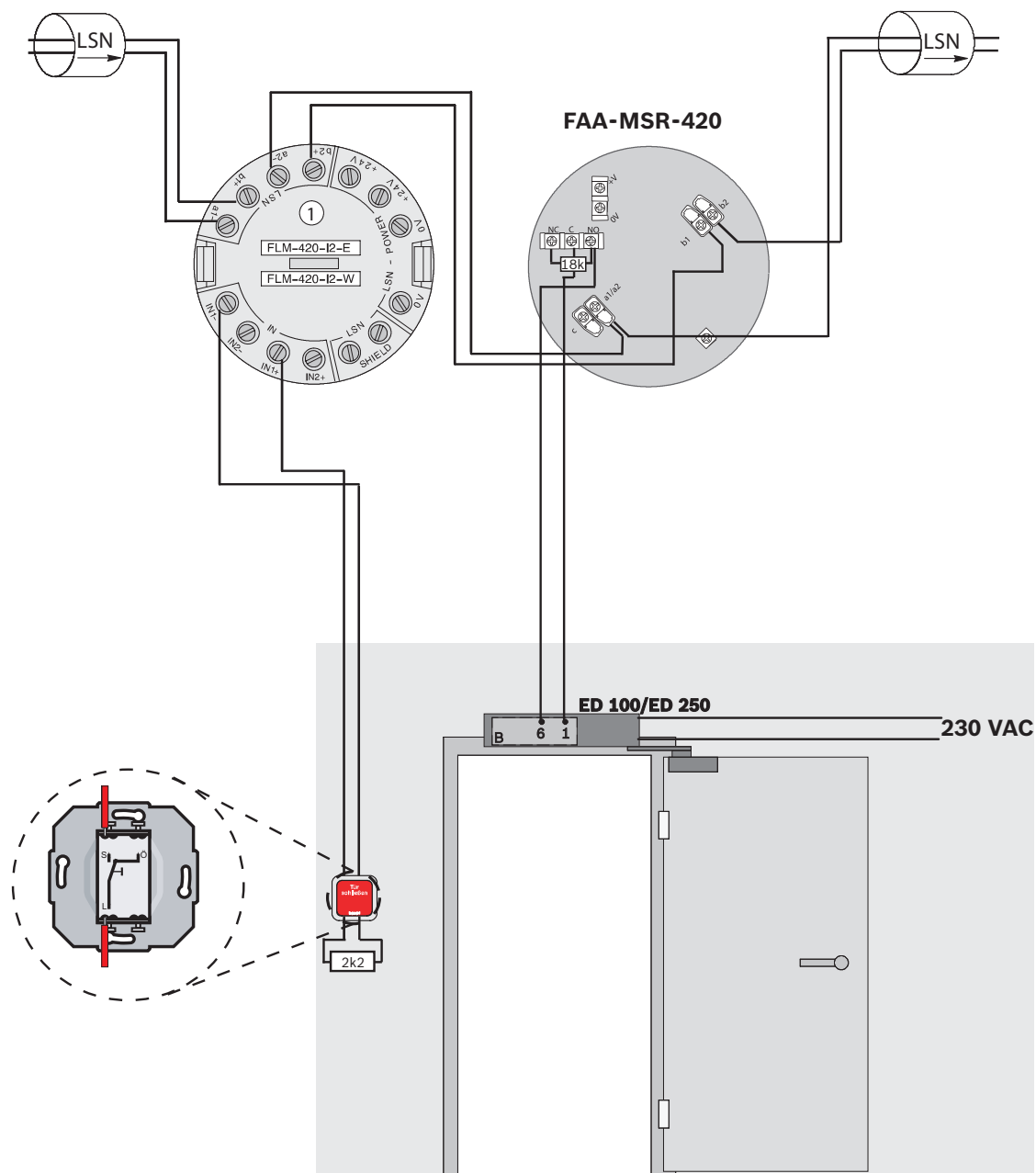
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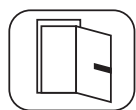




**ED 100
ED 250
(+Upgrade Card B)**

DIBT

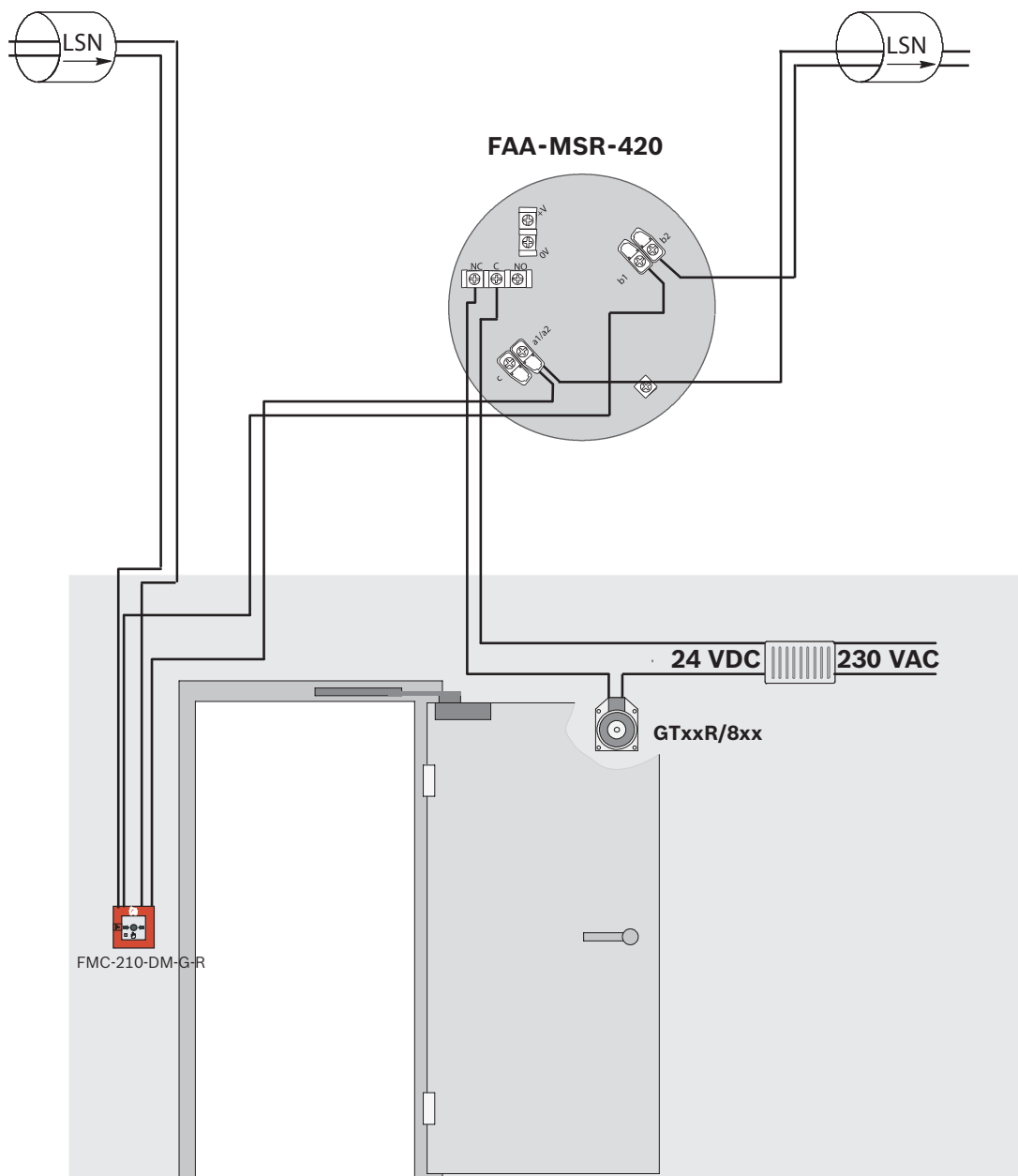




GT xx R

8 xx

DIBT

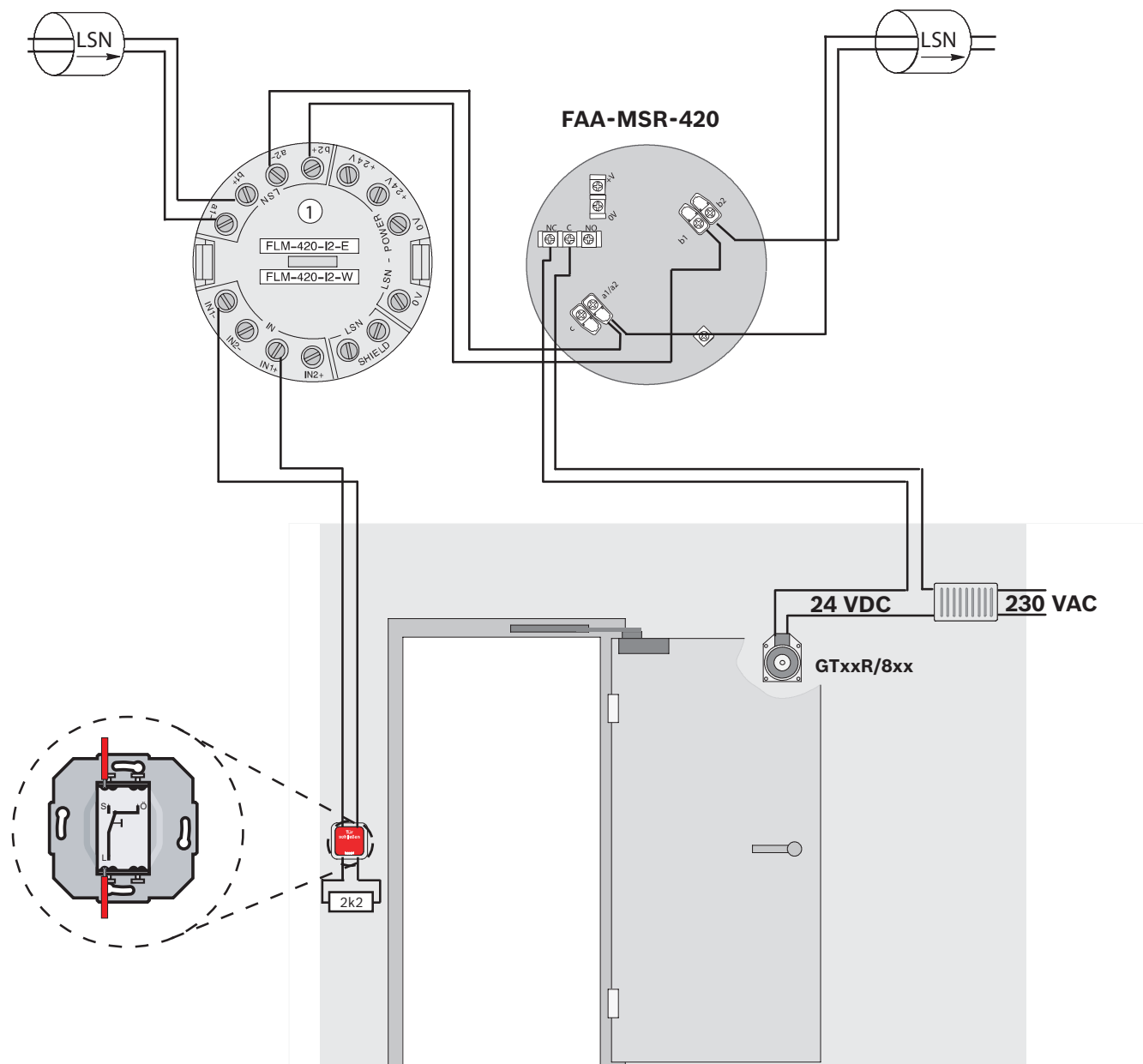




GT xx R

8 xx

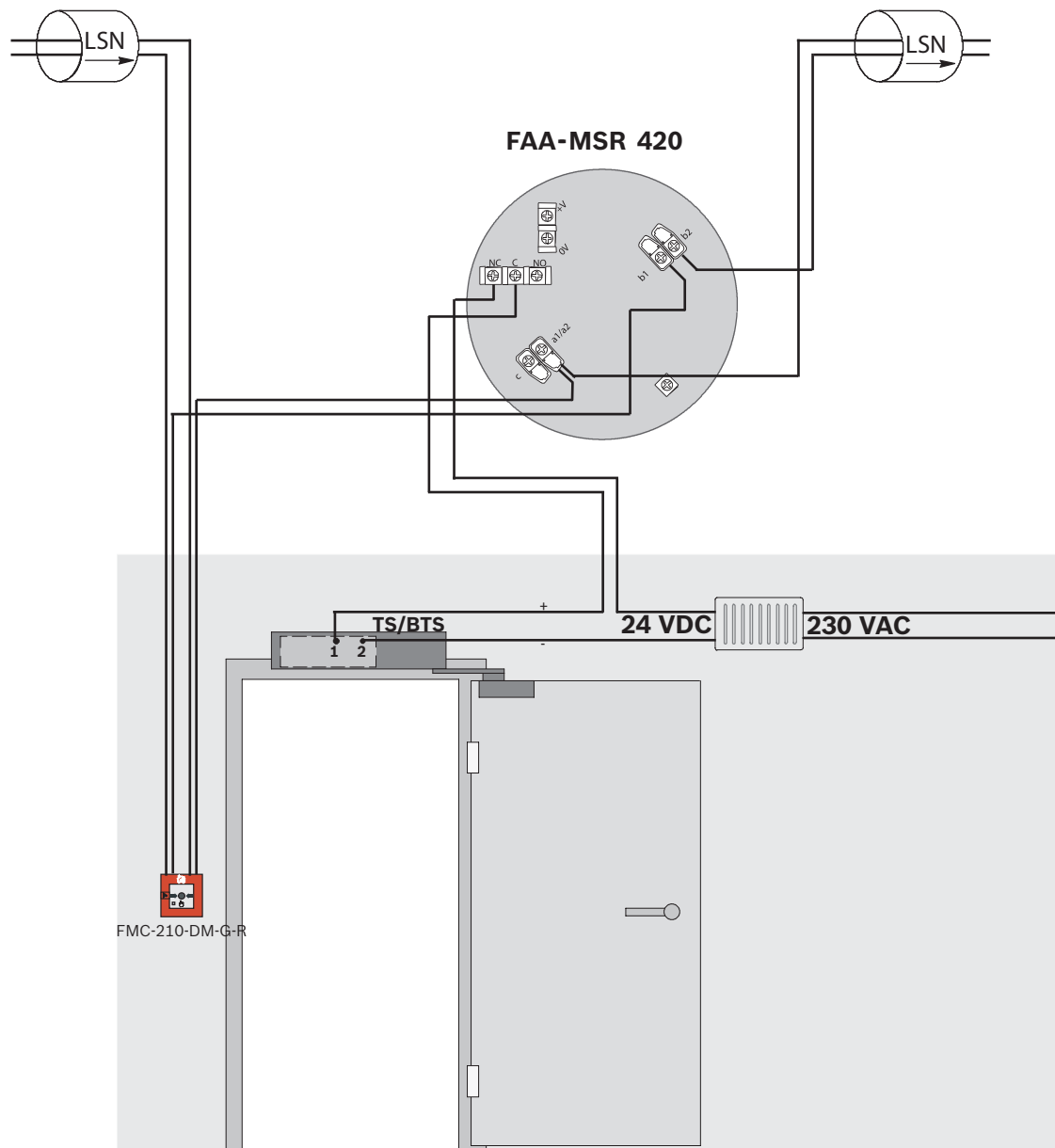
DIBT





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

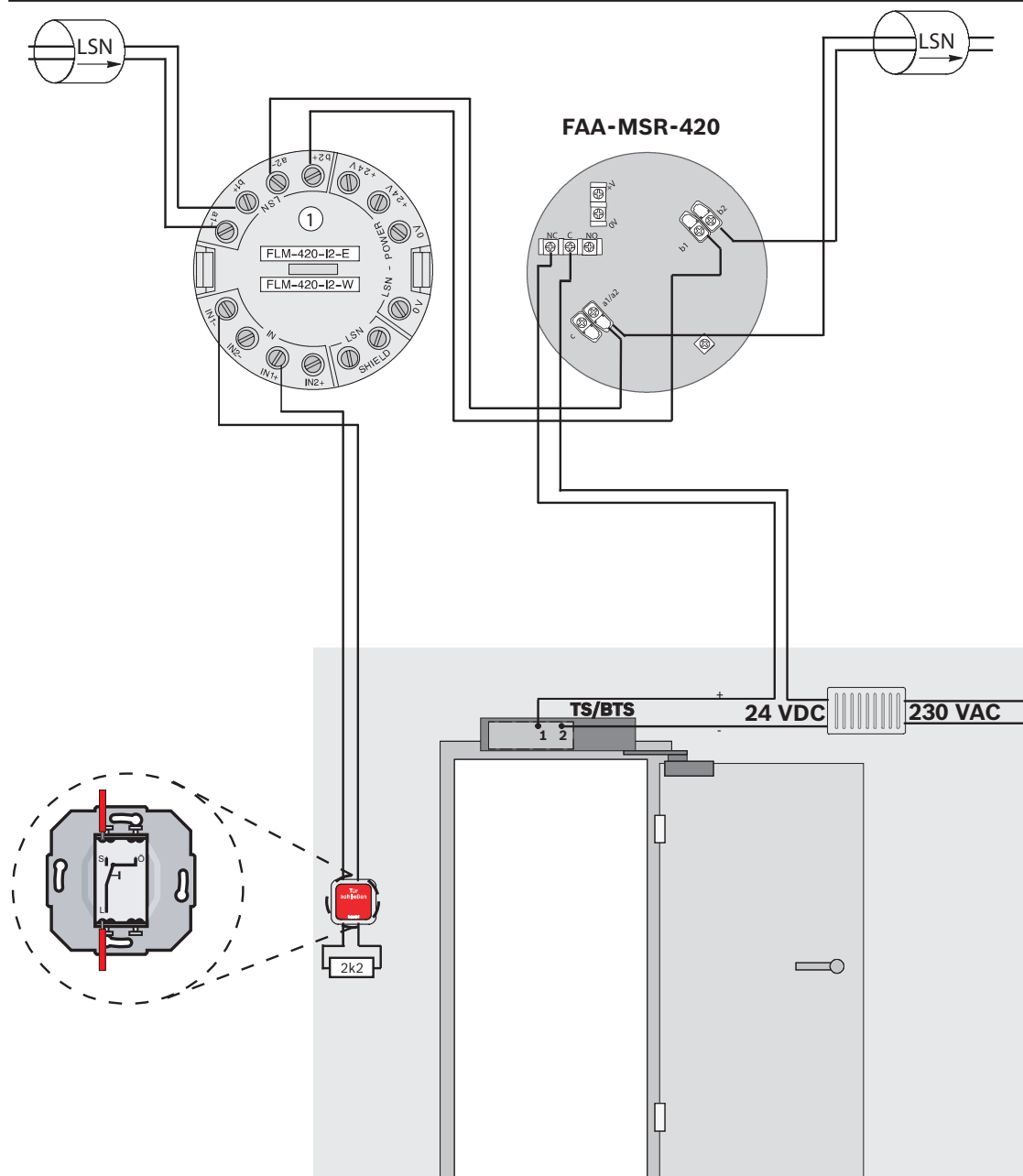
DIBT





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

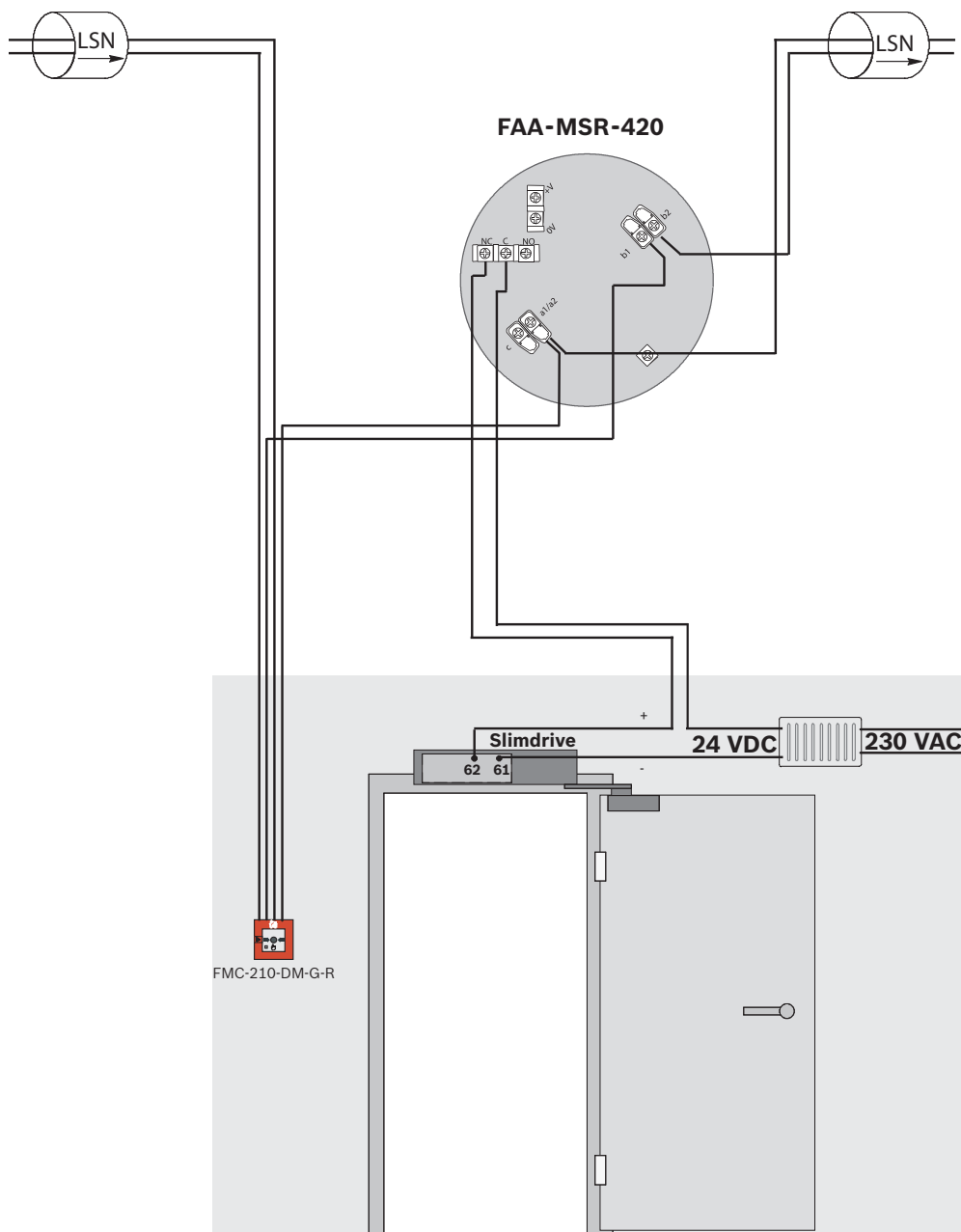
DIBT





Slimdrive EMD-F/EMD F-IS

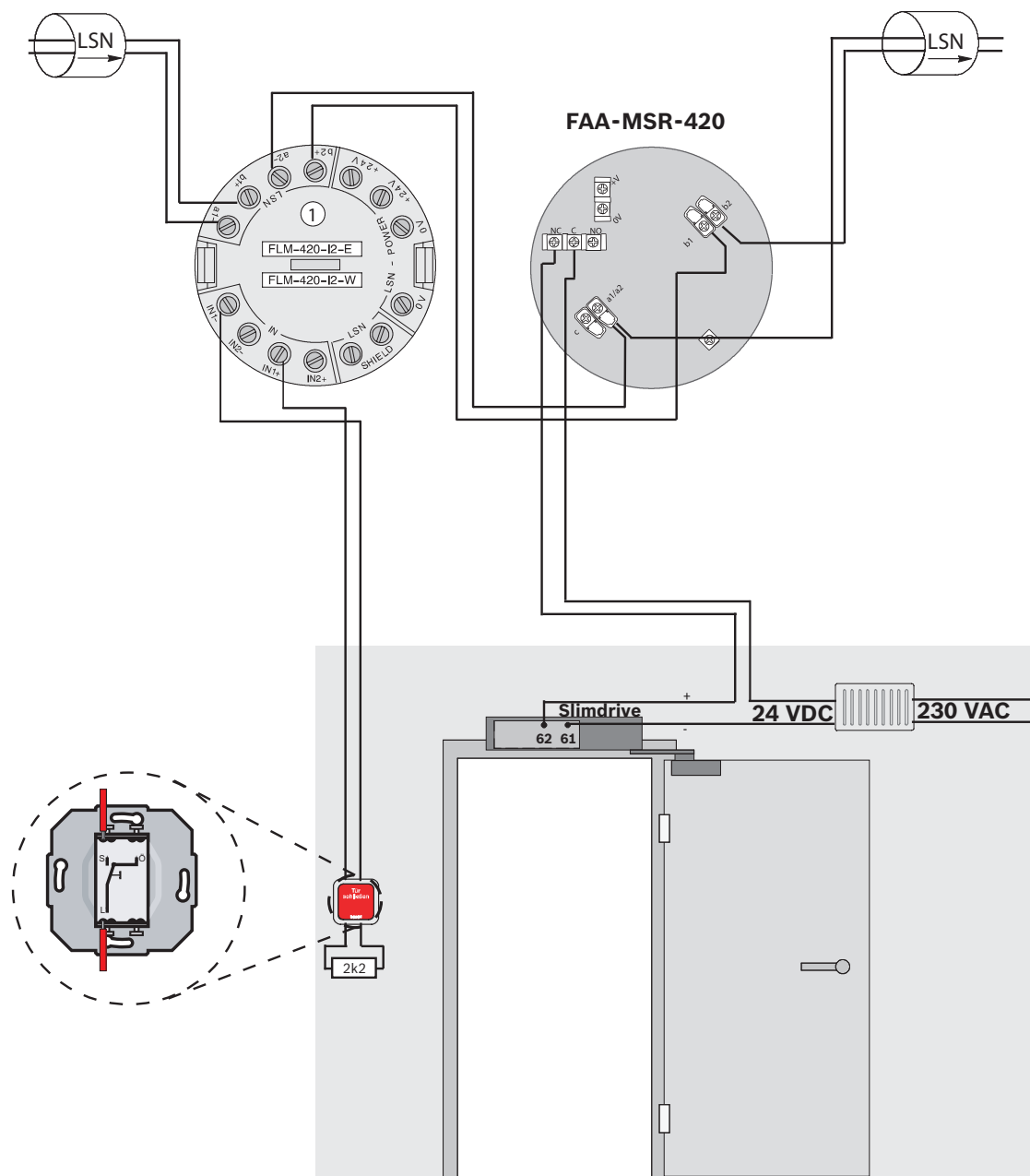
DIBT





Slimdrive EMD-F/EMD F-IS

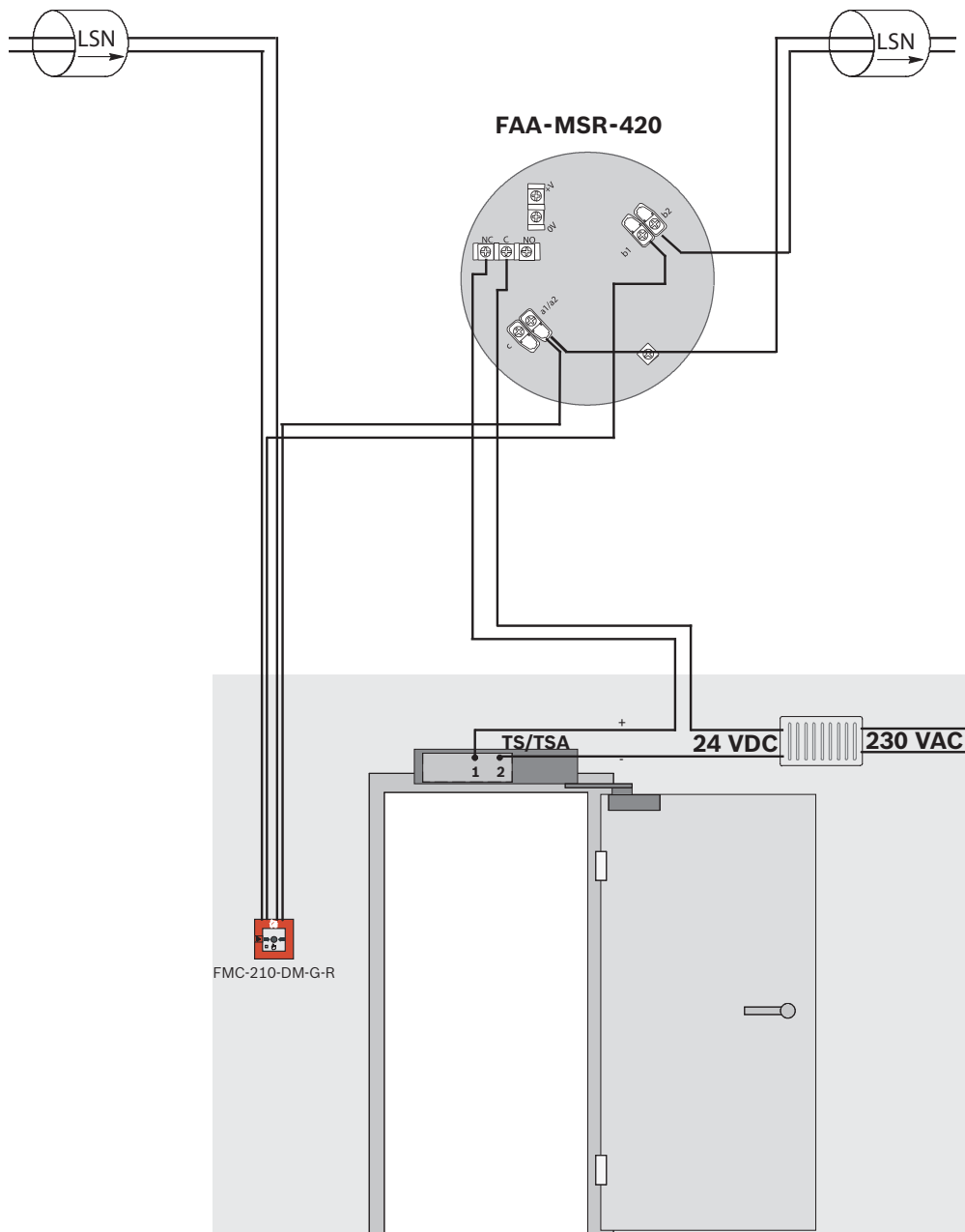
DIBT





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

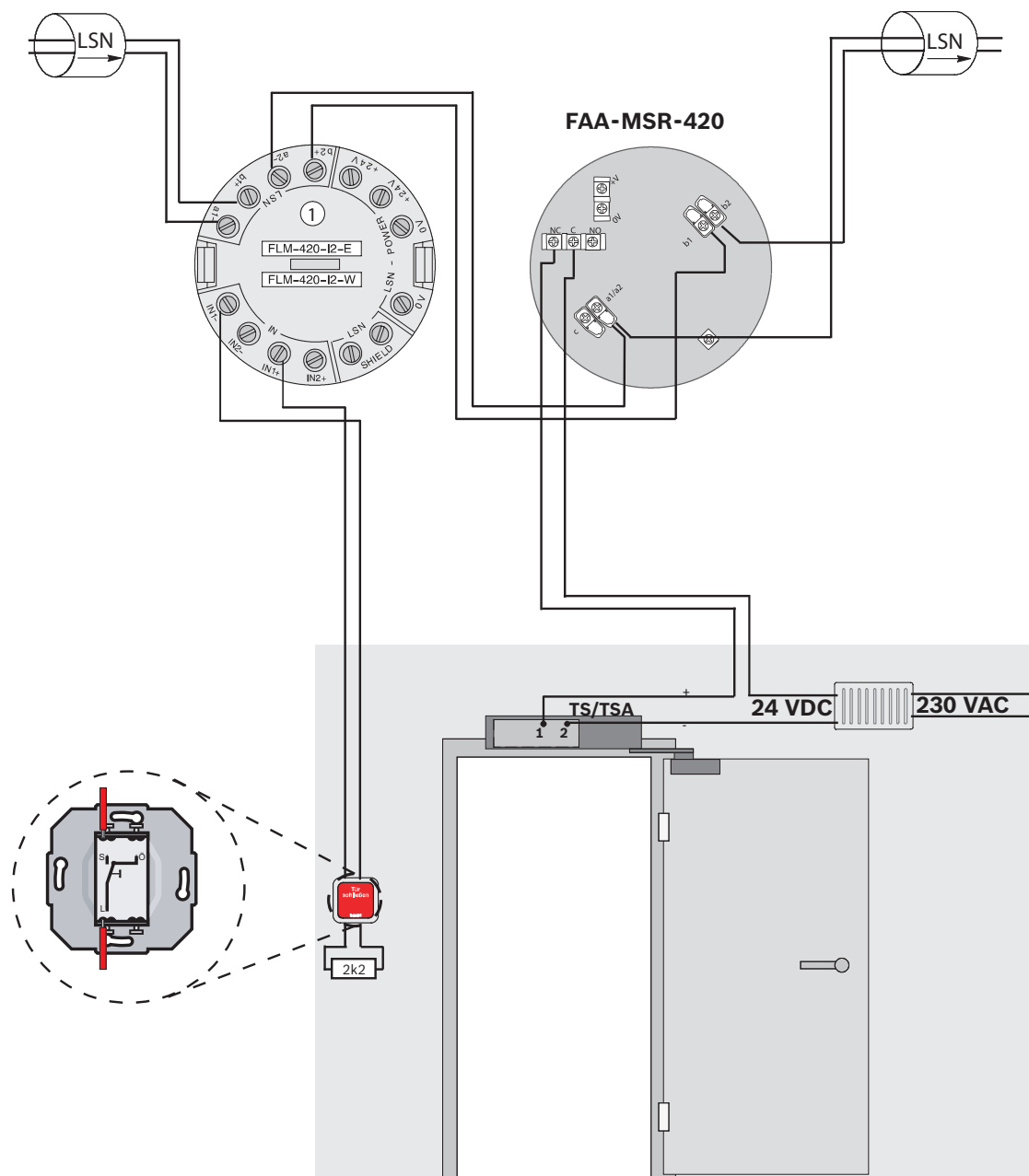
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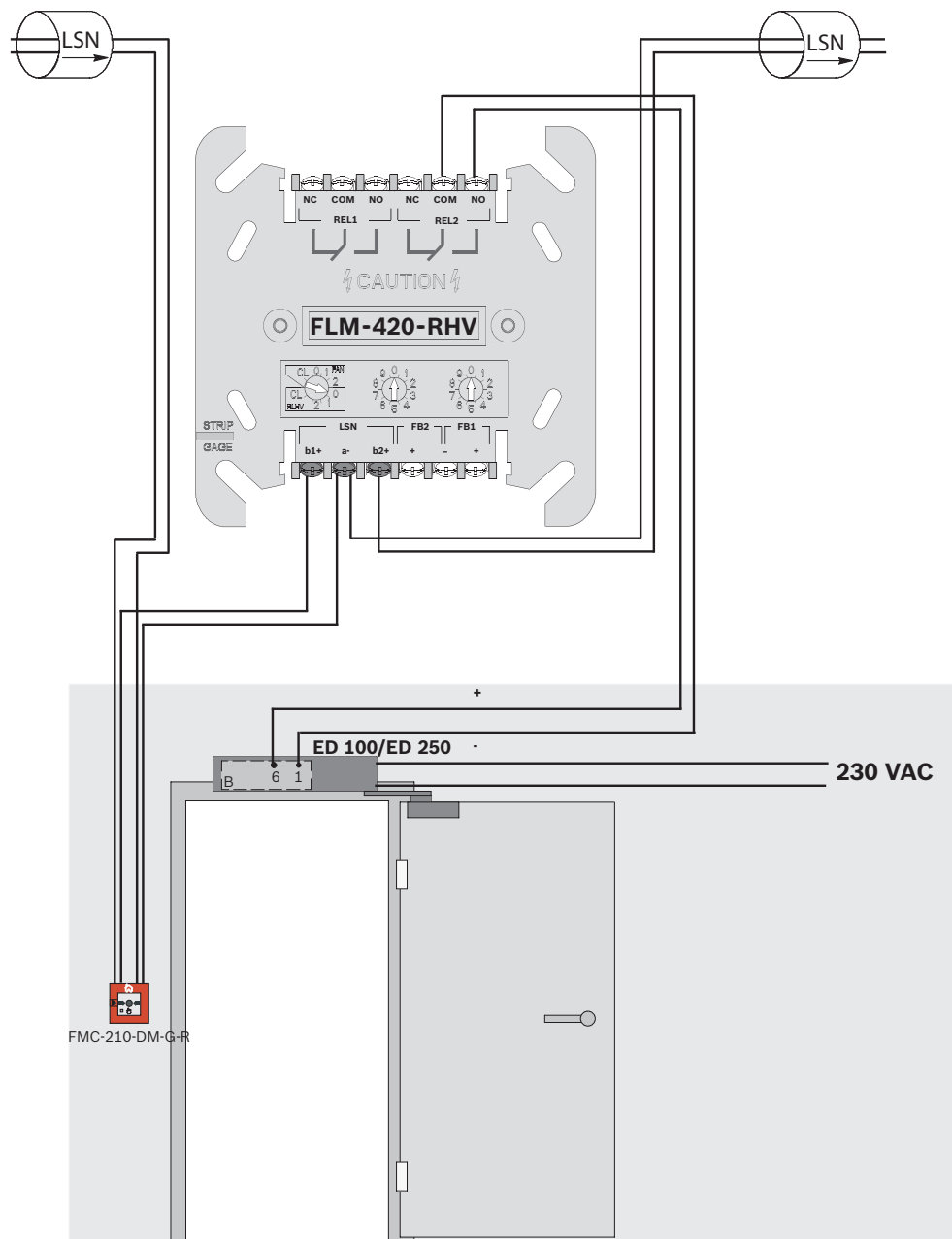
DIBT





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

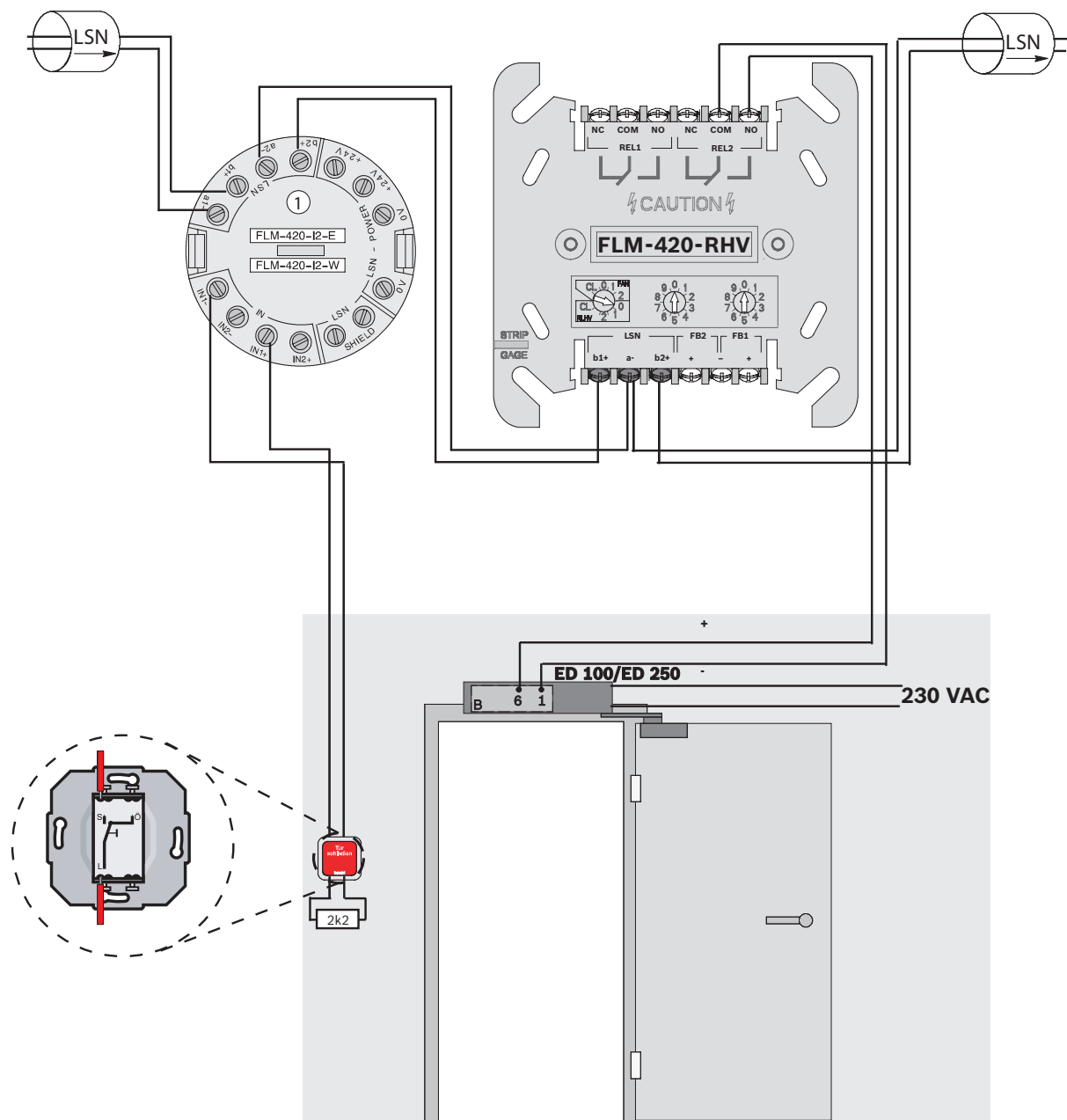
DIBT





ED 100
ED 250
(+Upgrade Card B)

DIBT

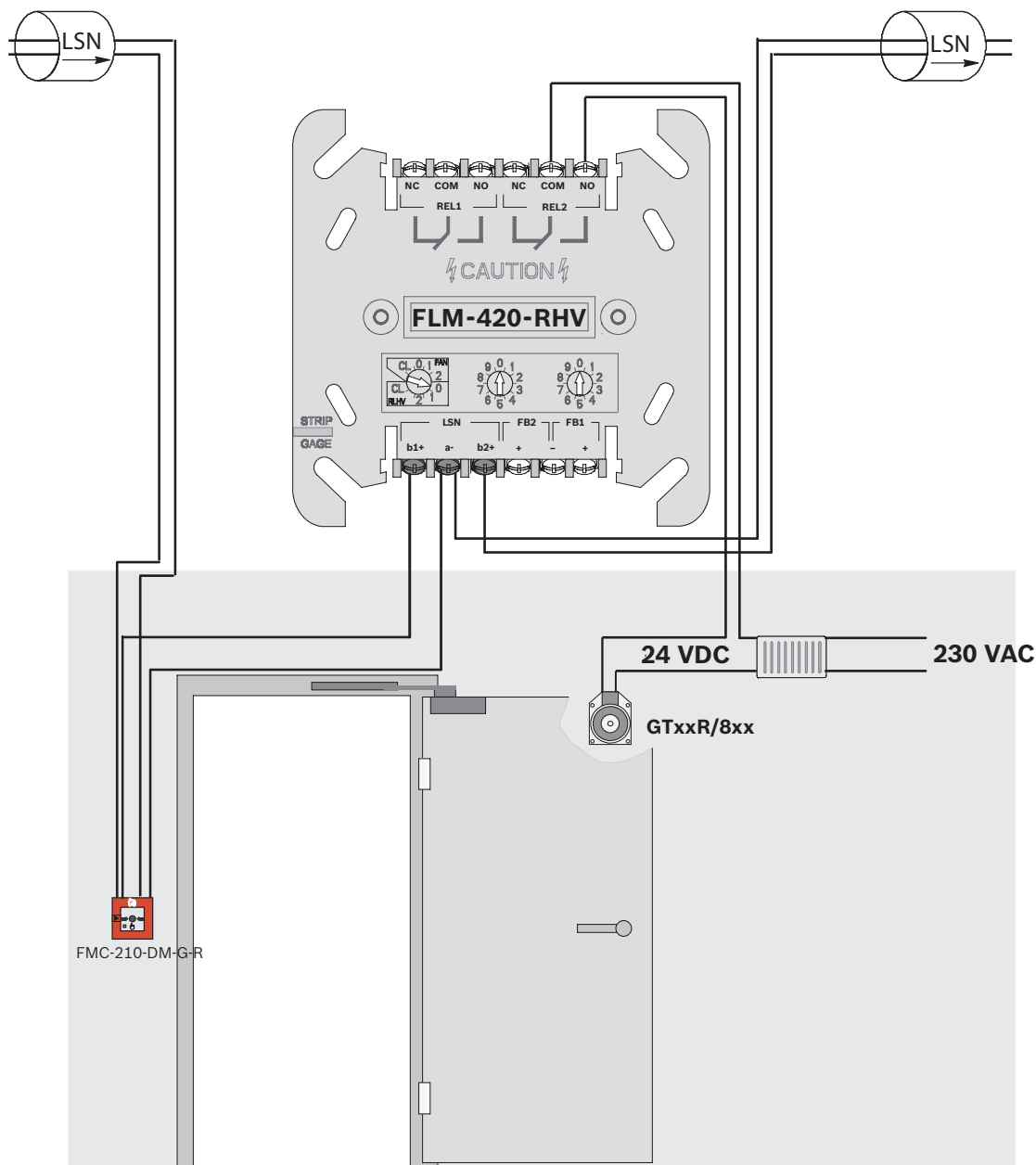




GT xx R

8 xx

DIBT

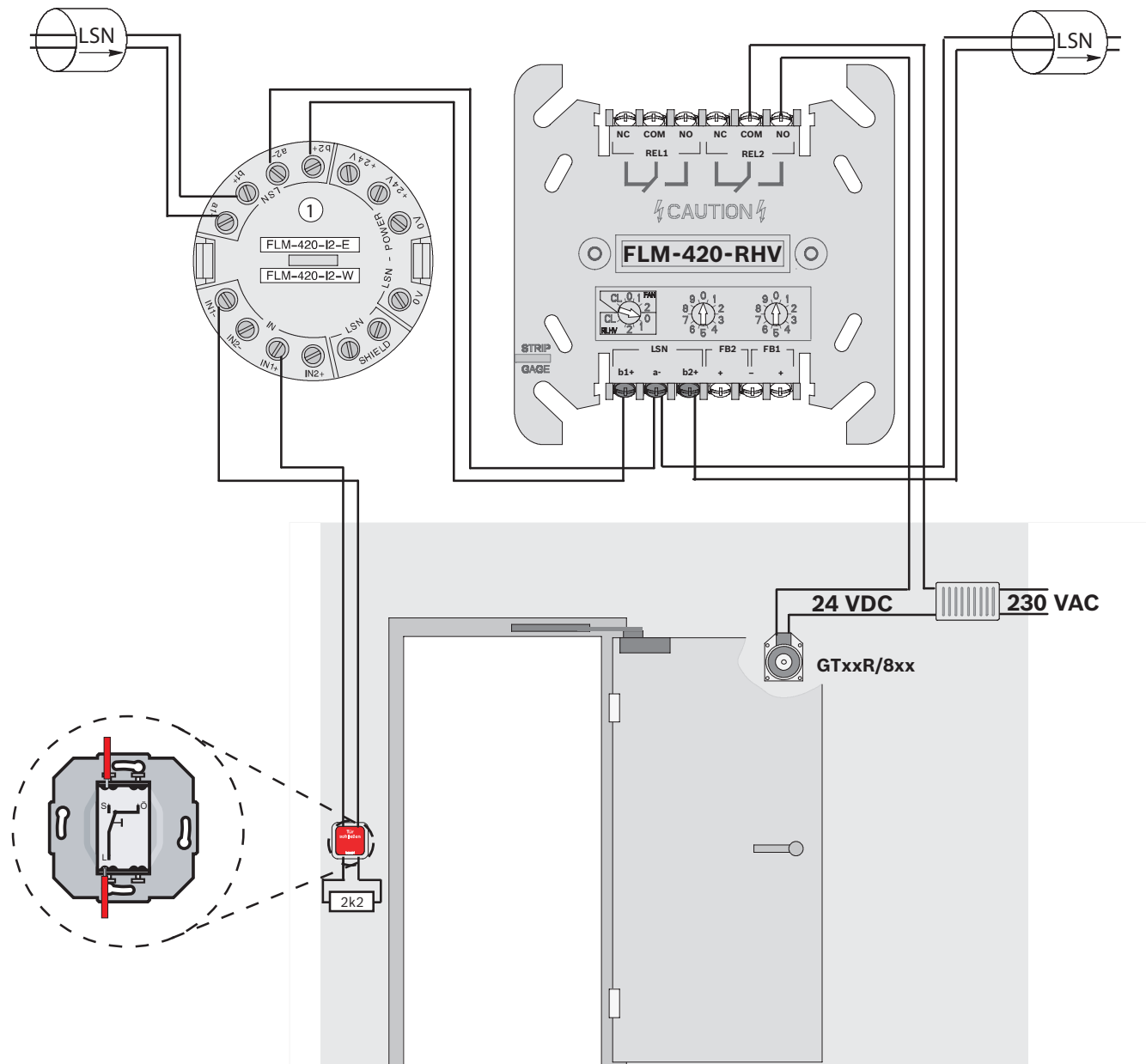




GT xx R

8 xx

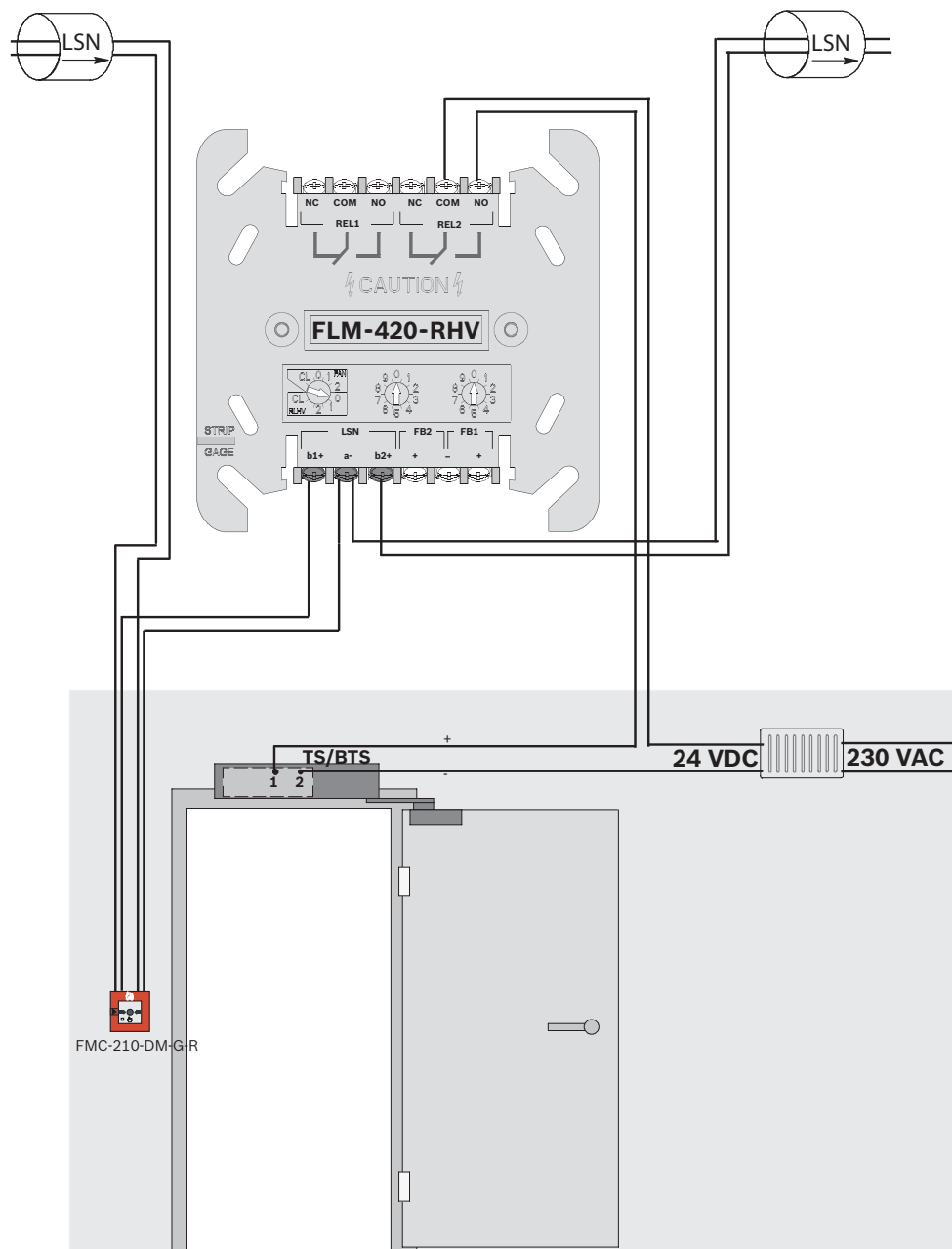
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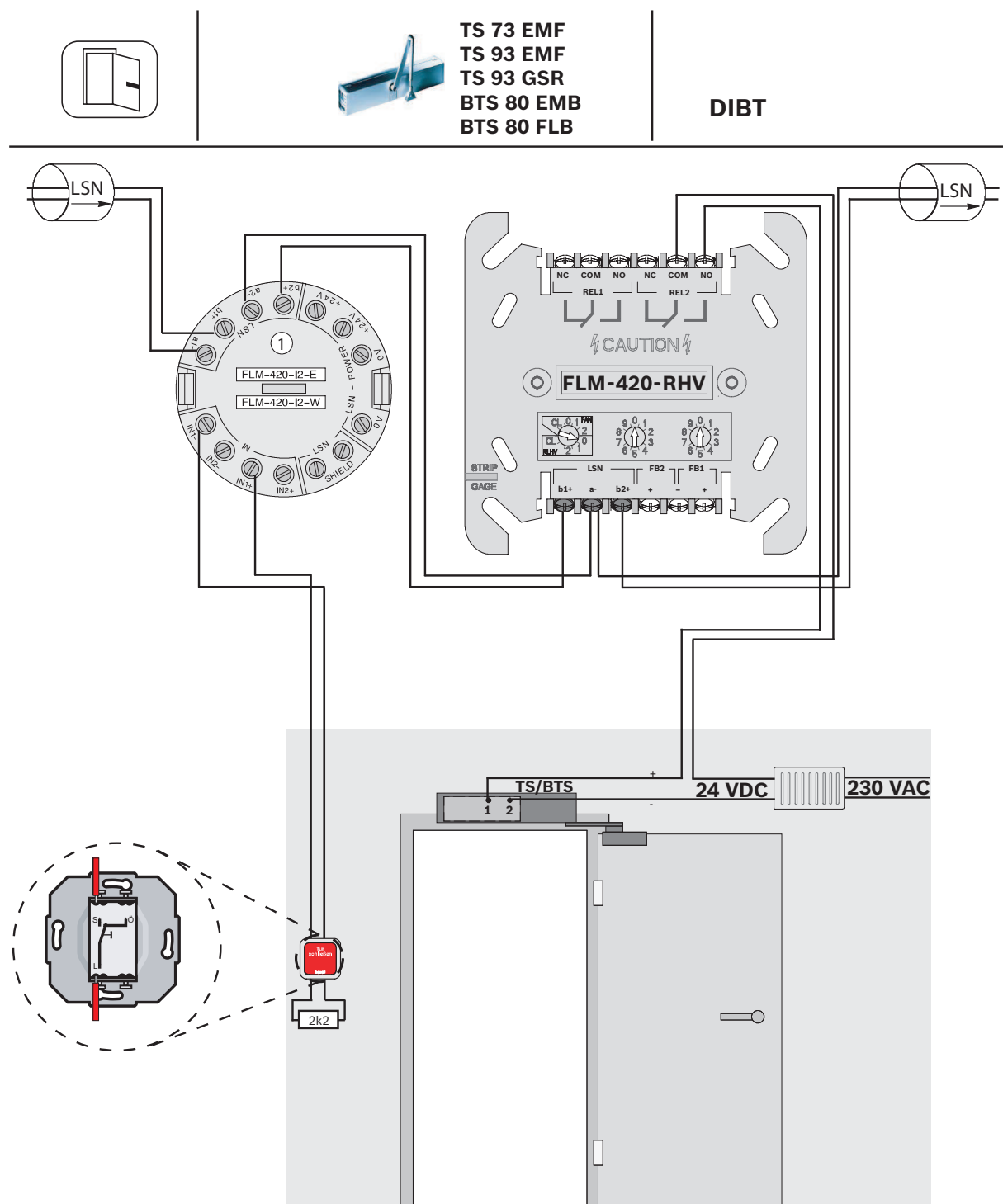




TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

DIBT

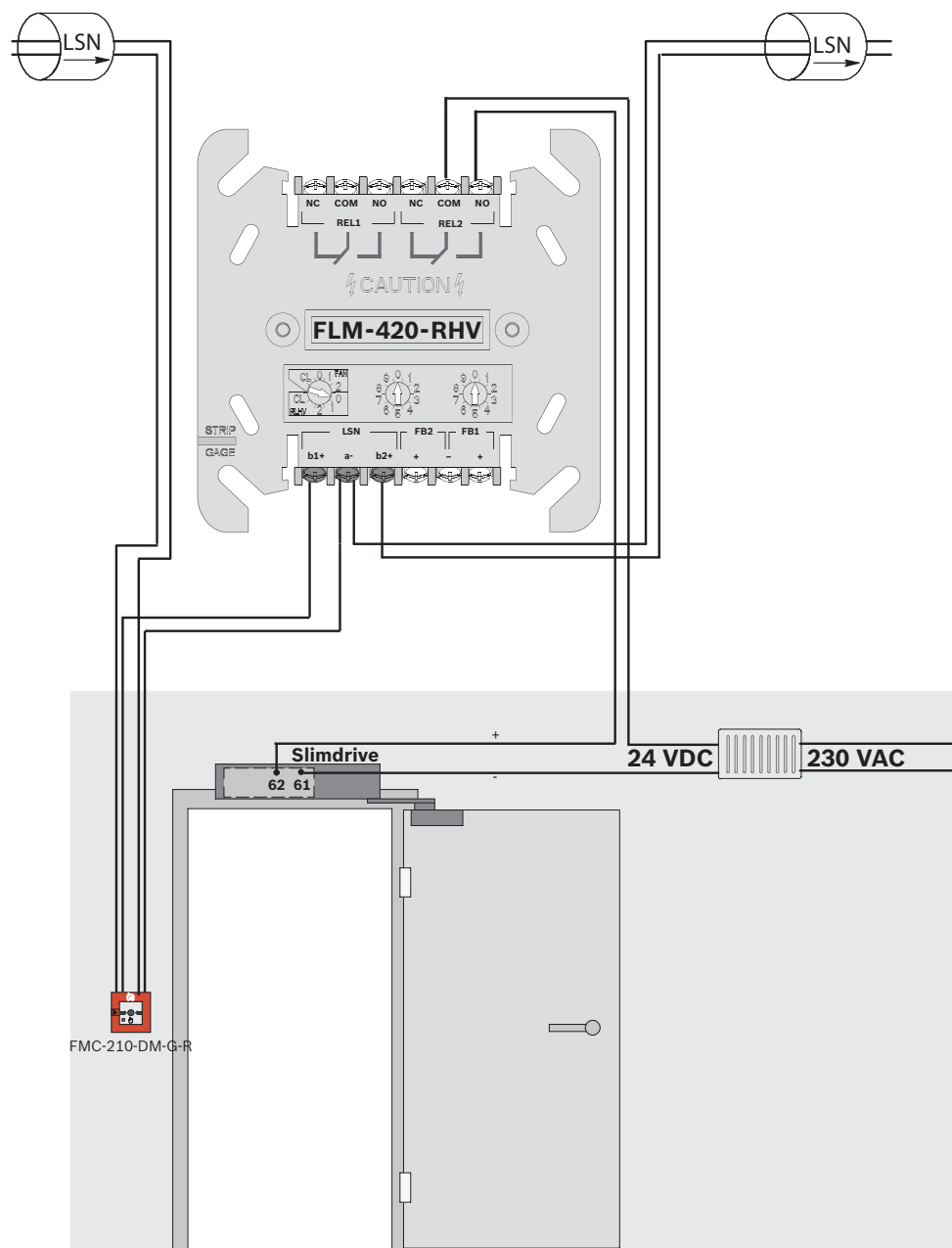






Slimdrive EMD-F/EMD F-IS

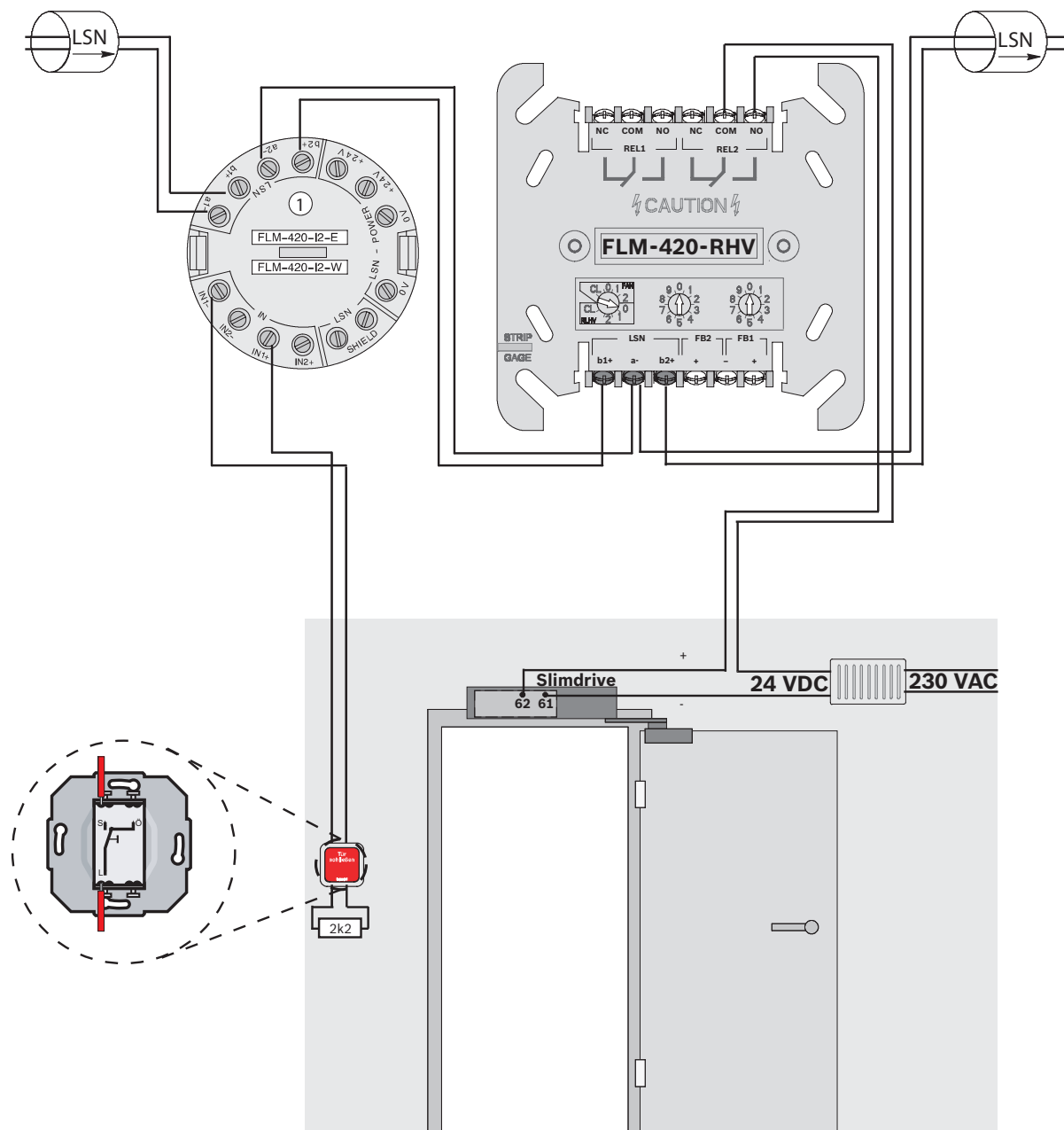
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Slimdrive EMD-F/EMD F-IS

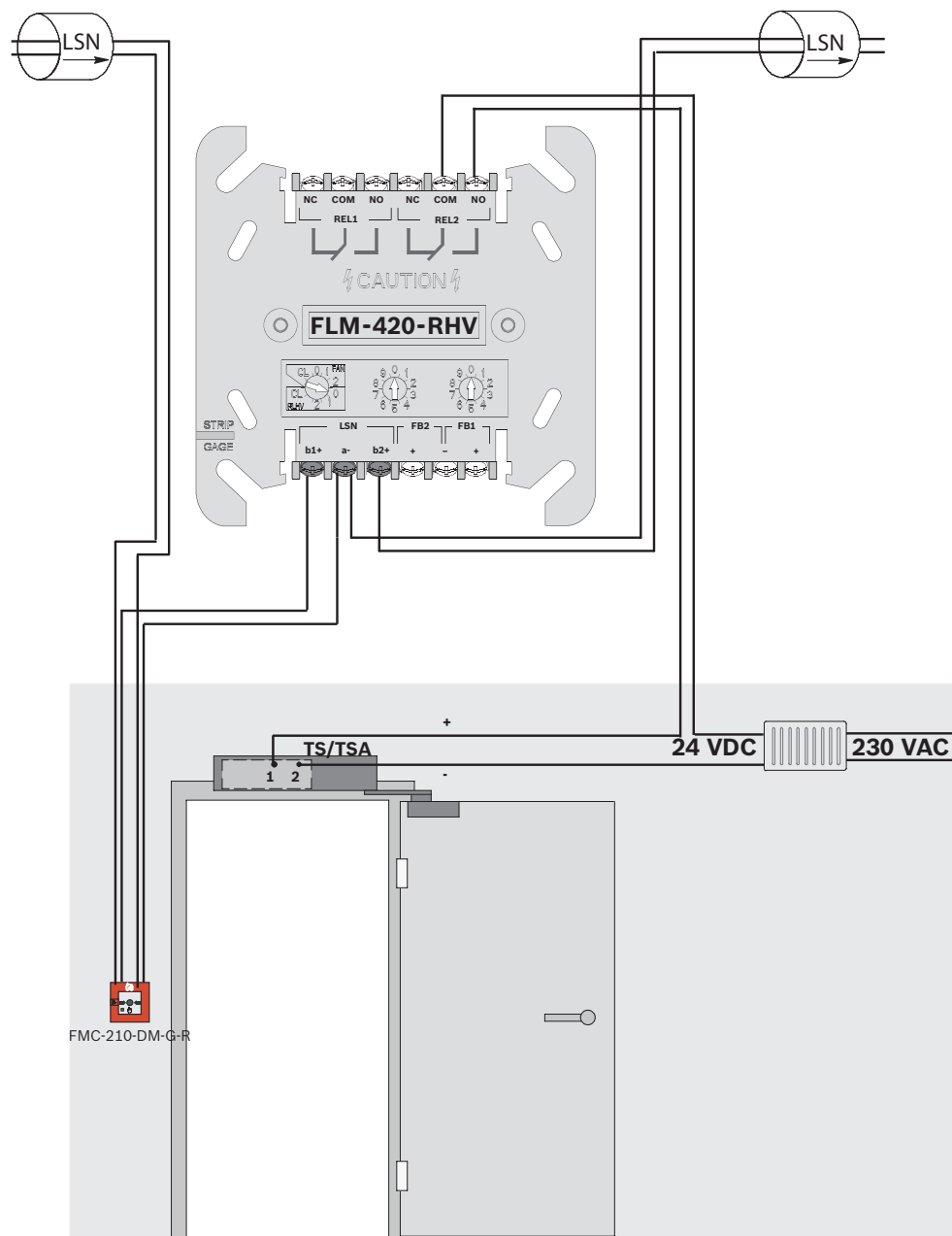
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TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

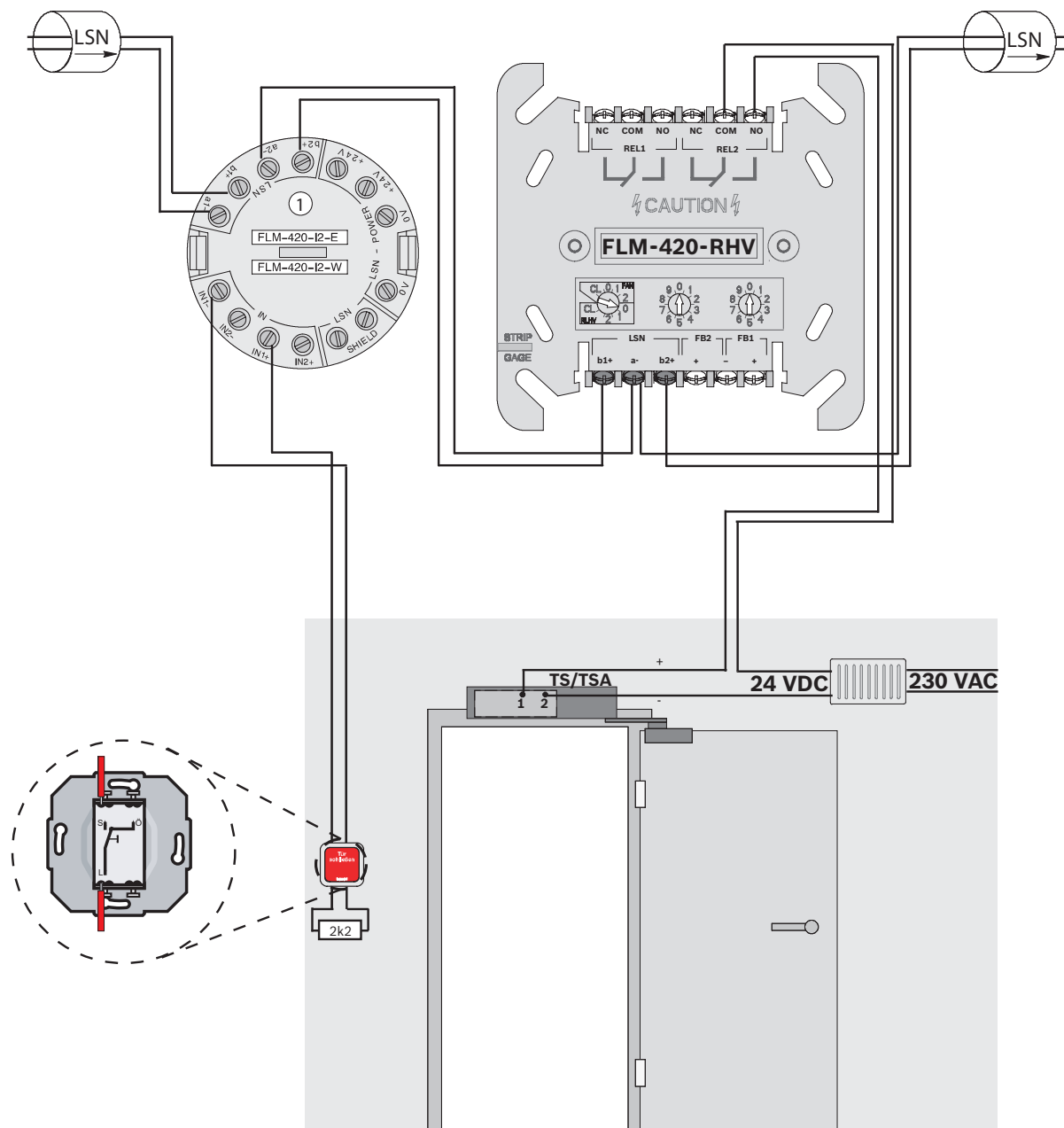
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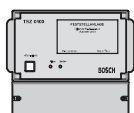




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TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

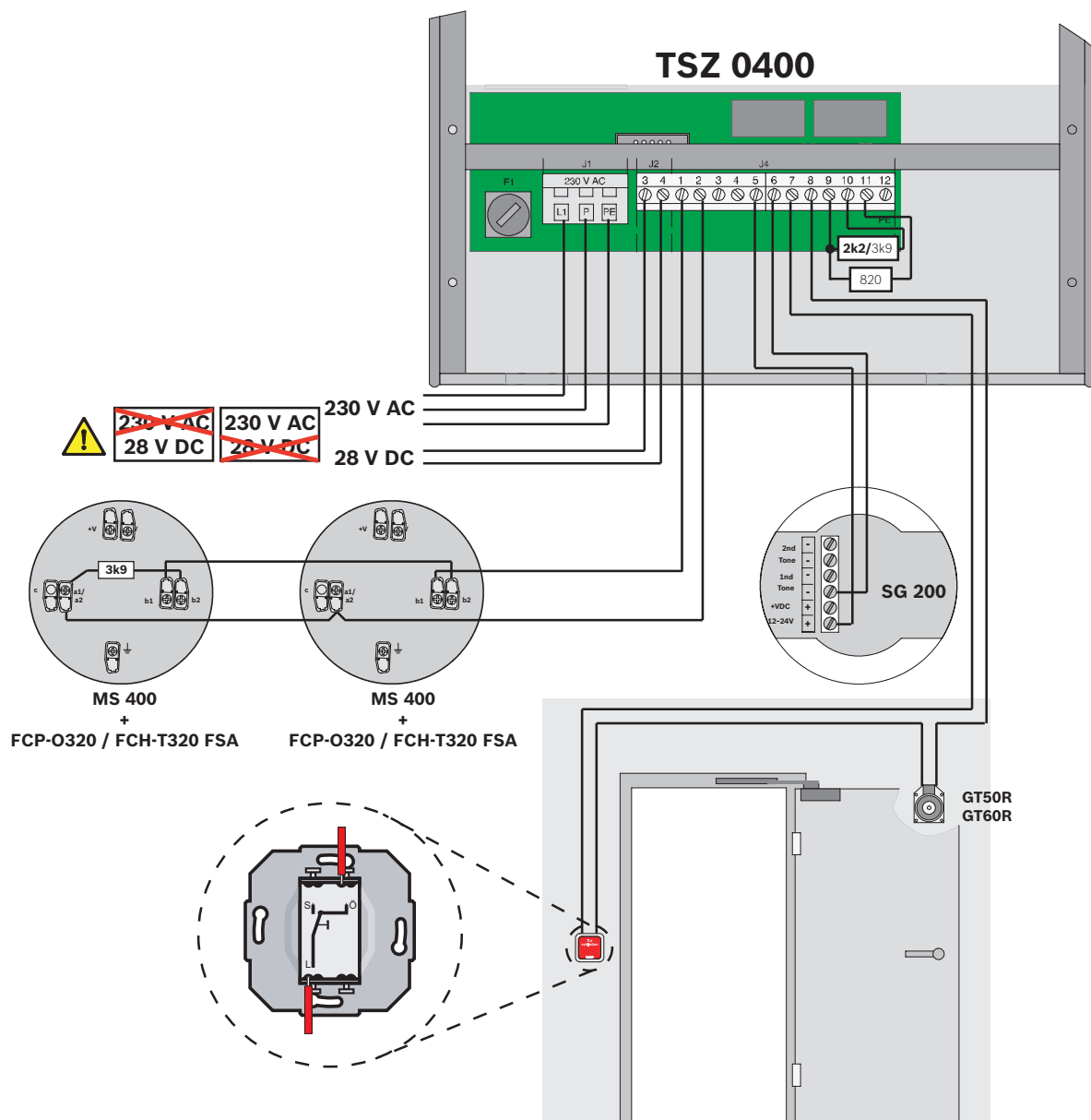
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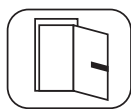




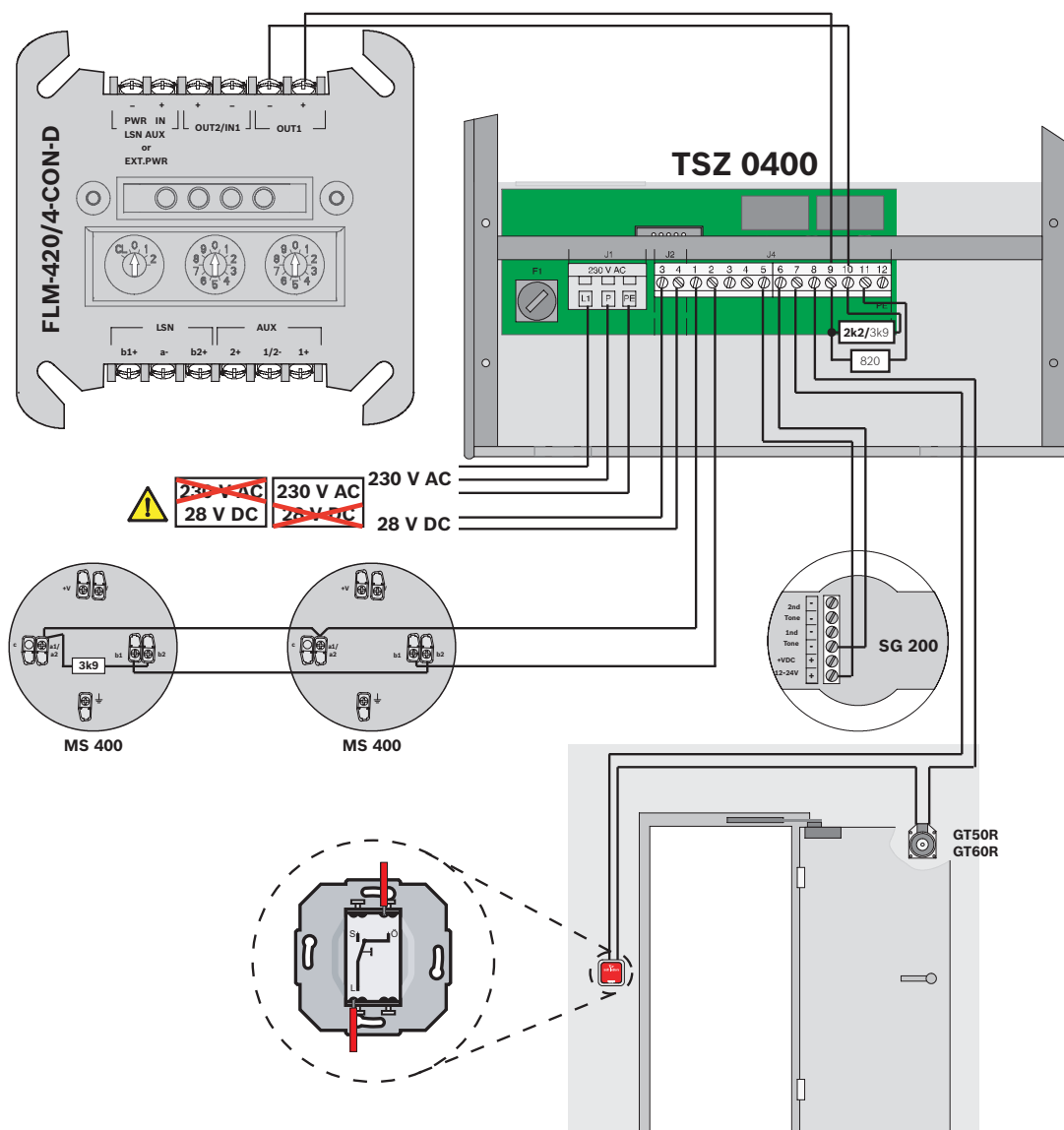
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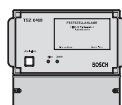
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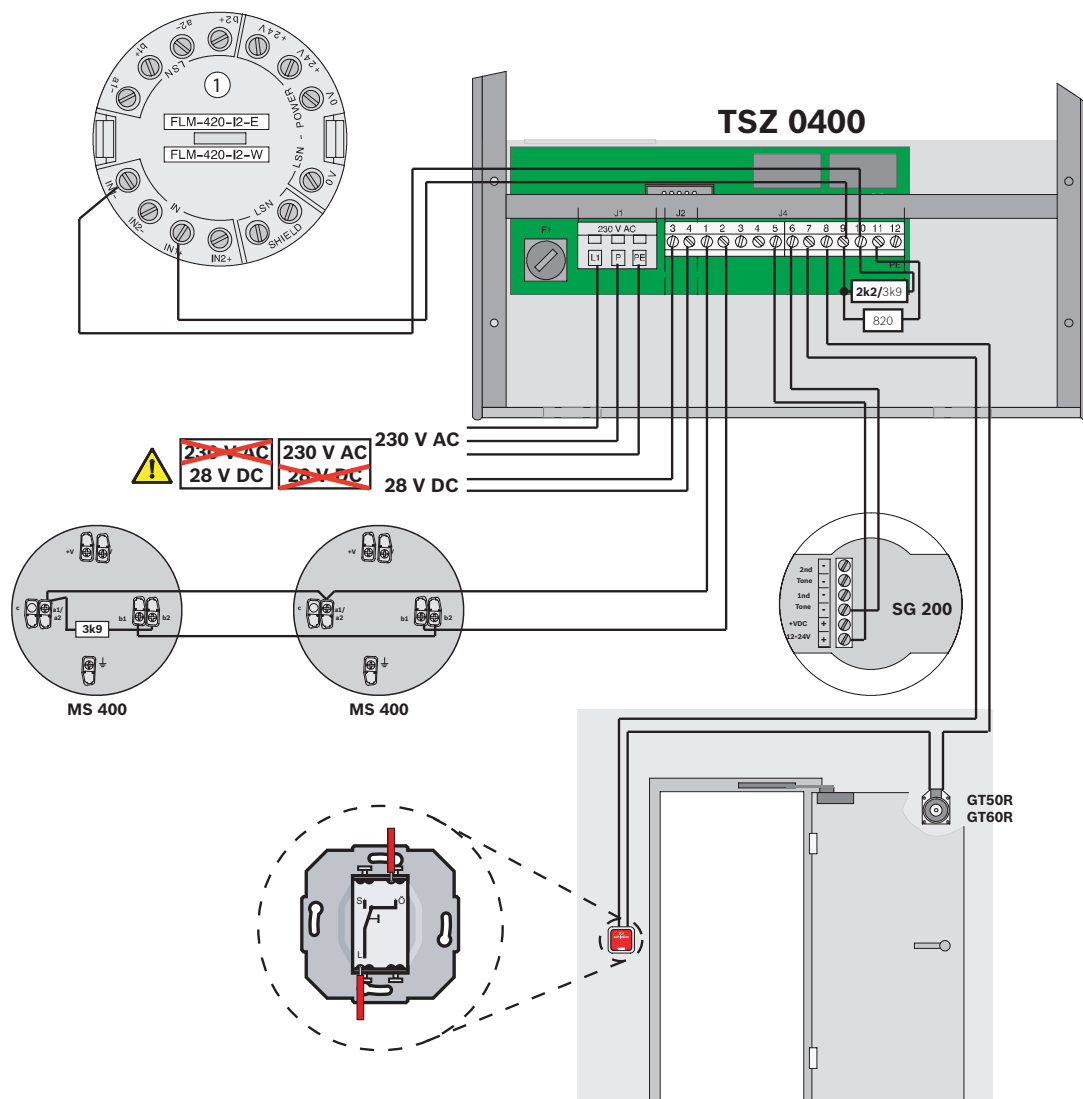


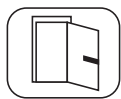
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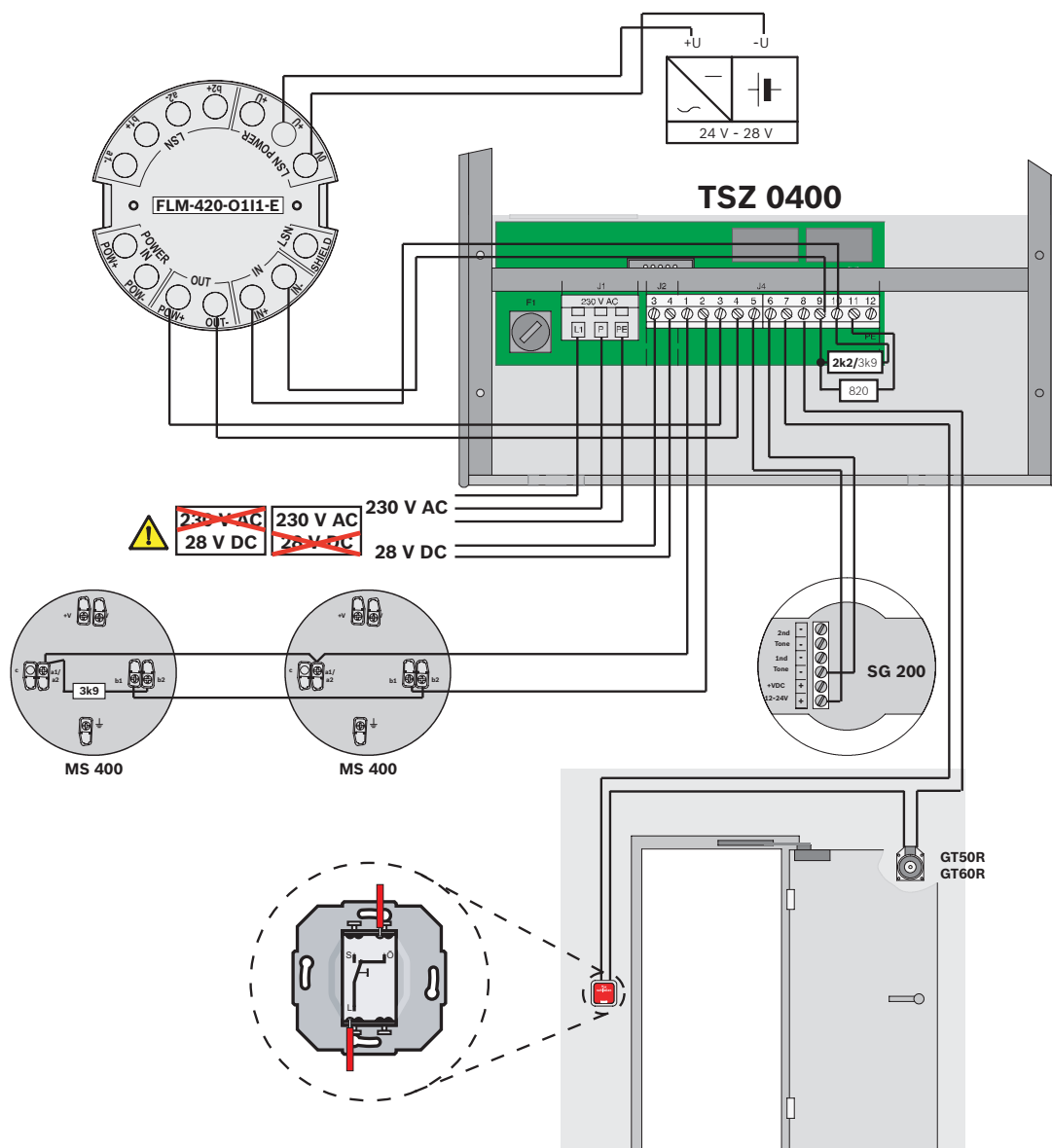
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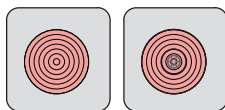




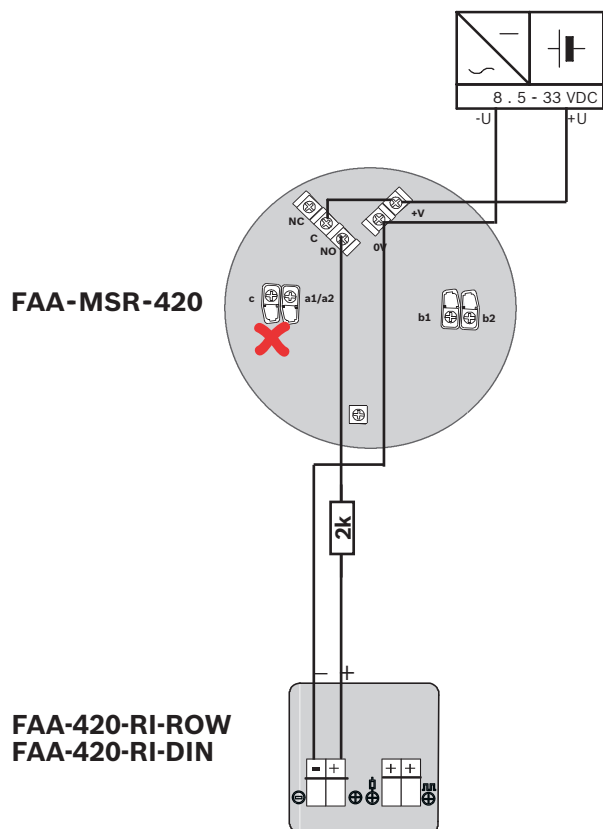
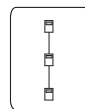
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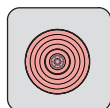
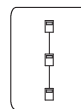
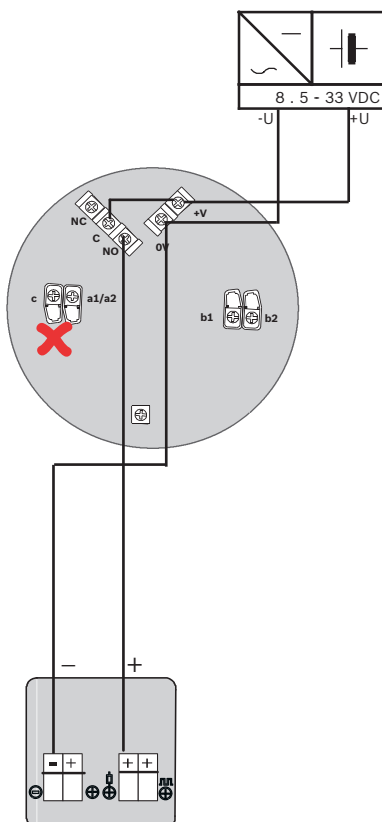
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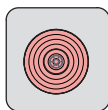
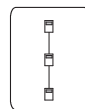
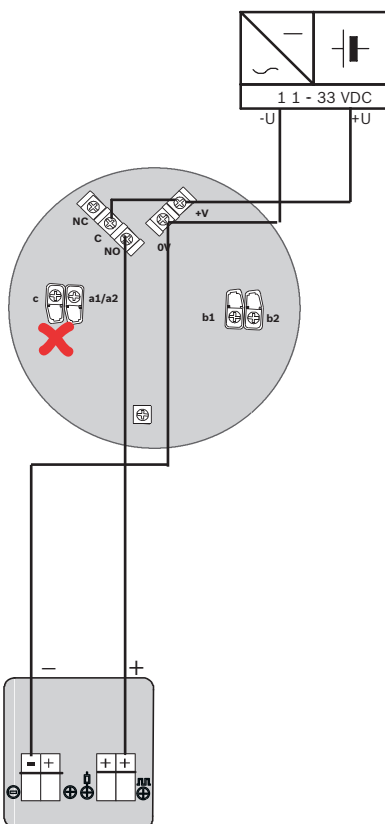




FAA-420-RI-ROW
FAA-420-RI-DIN



**FAA-420-RI-DIN****FAA-MSR-420****FAA-420-RI-DIN**

**FAA-420-RI-DIN****FAA-MSR-420**

3.3

Functionele modules



BCM-0000-B, pagina 50

CZM 0004 A, pagina 52

ENO 0000 A/B, pagina 56

LSN 0300 A, pagina 63

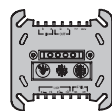
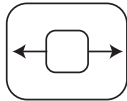
NZM 0002 A, pagina 98

RMH 0002 A, pagina 114

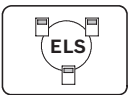
IOS 0020 A, pagina 117

FPE-5000-UGM, pagina 132

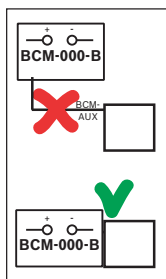
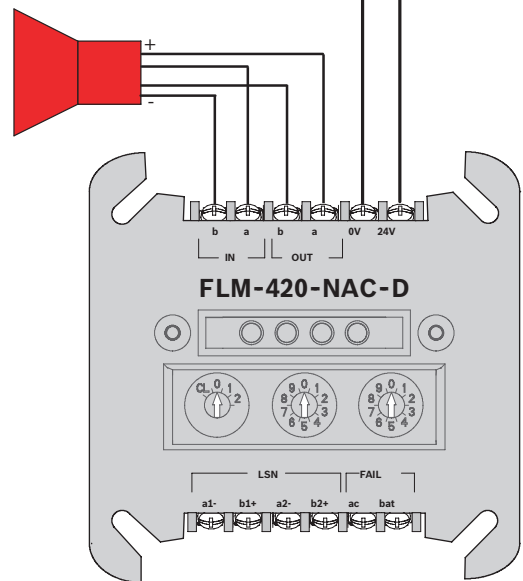
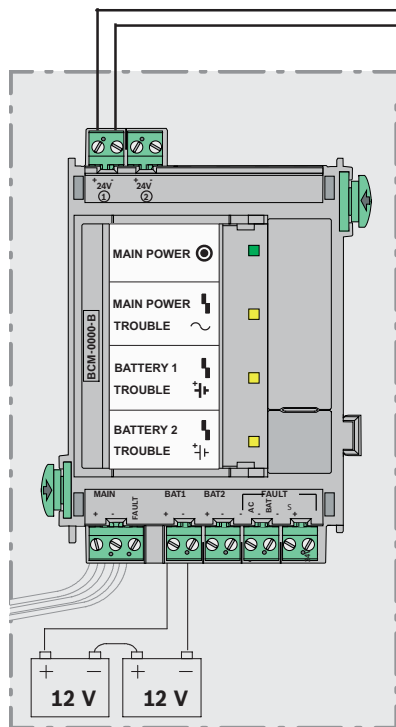
3.3.1 BCM-000-B

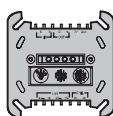
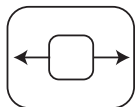


FLM-420-NAC-D

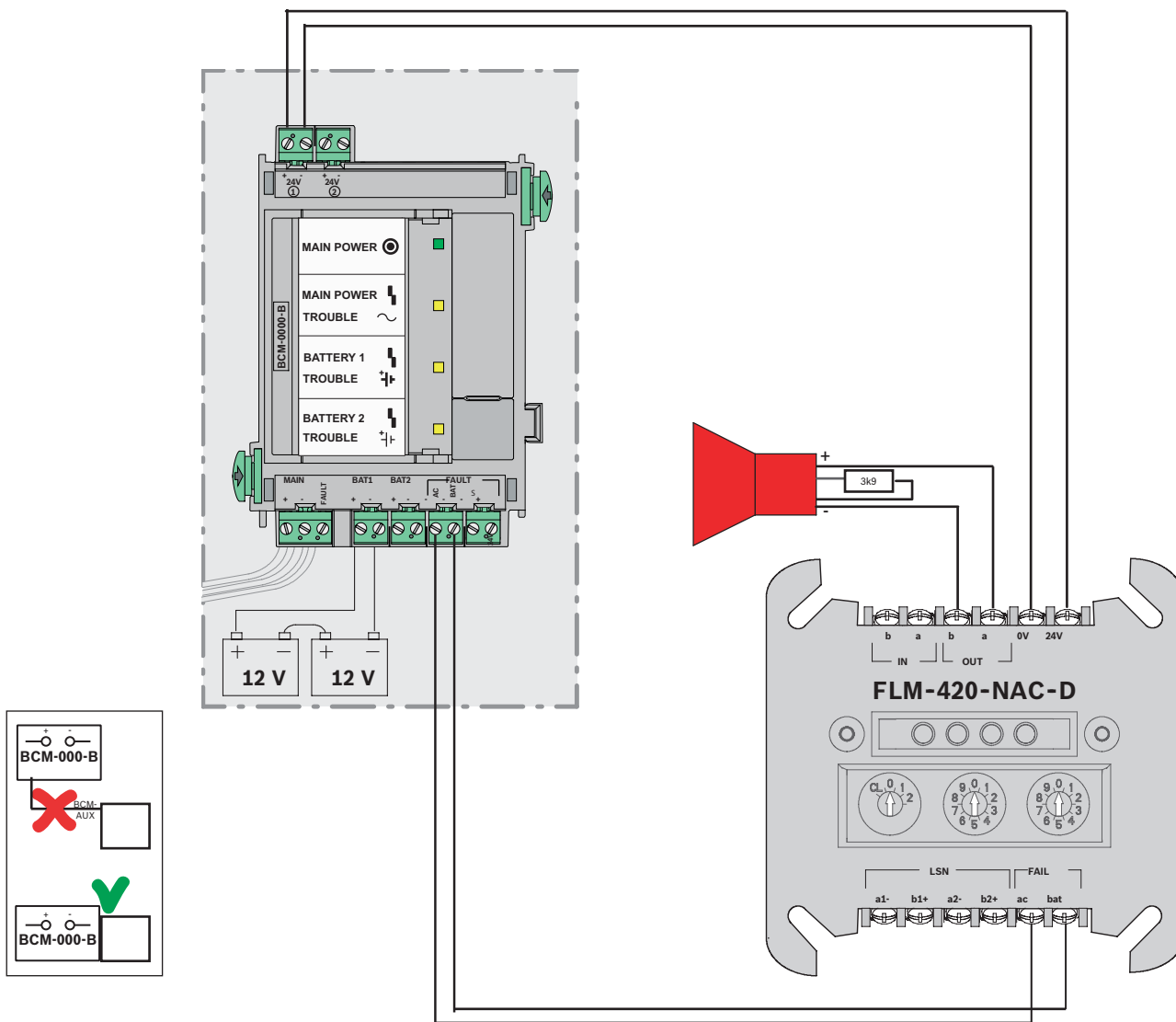
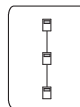


VdS 2489





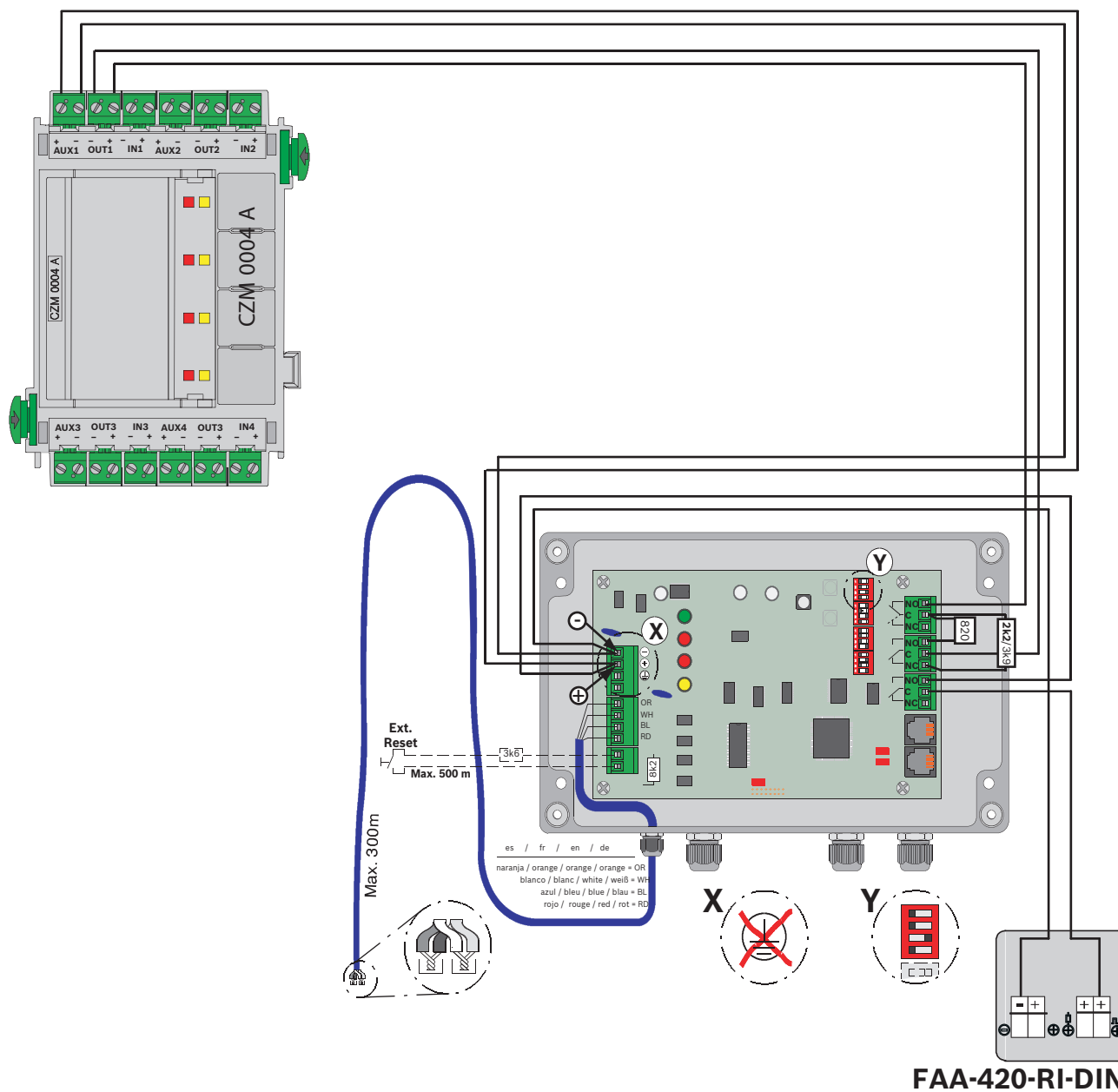
FLM-420-NAC-D

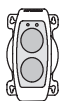


3.3.2 CZM 0004 A

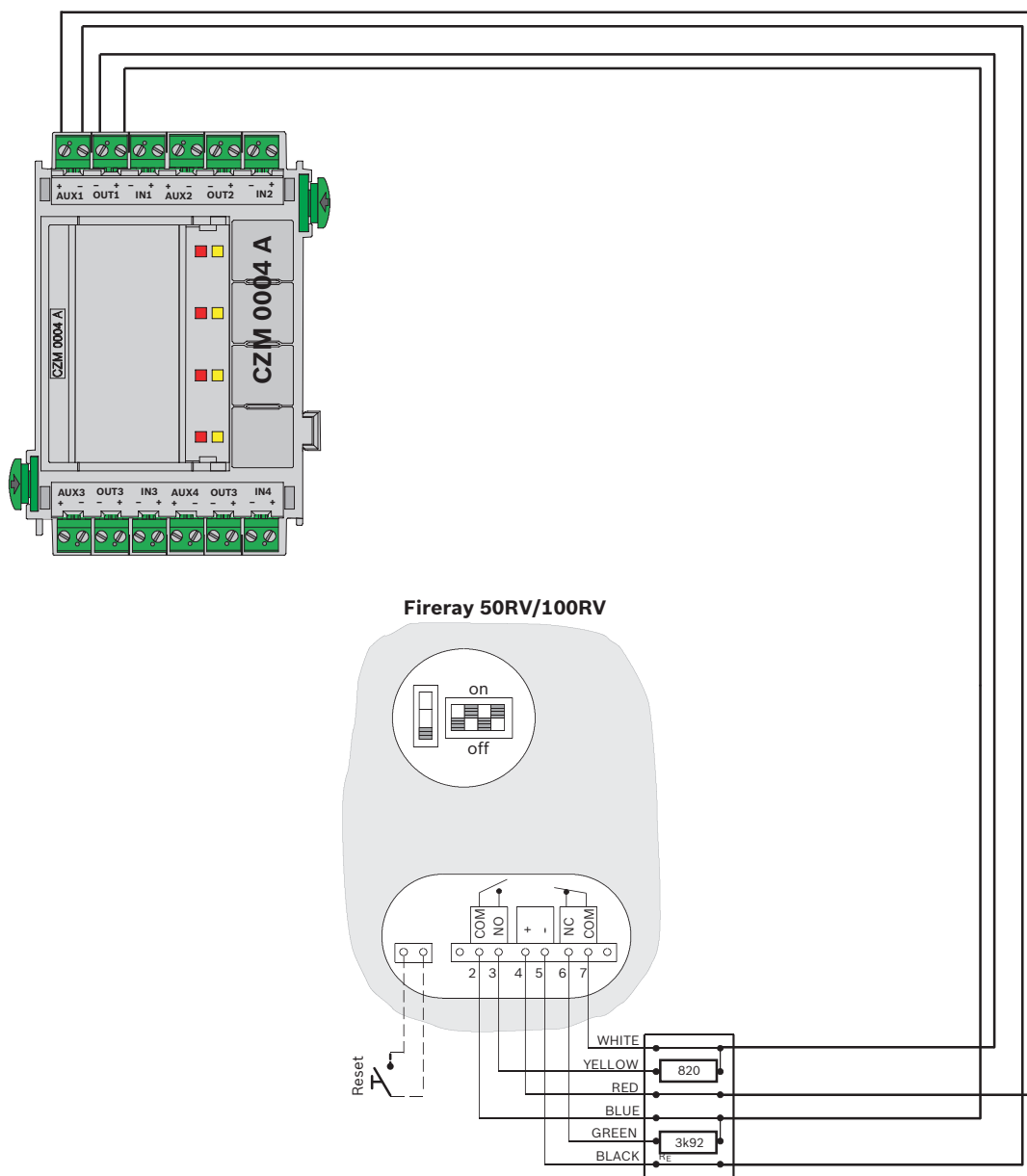


FCS-LWM-1



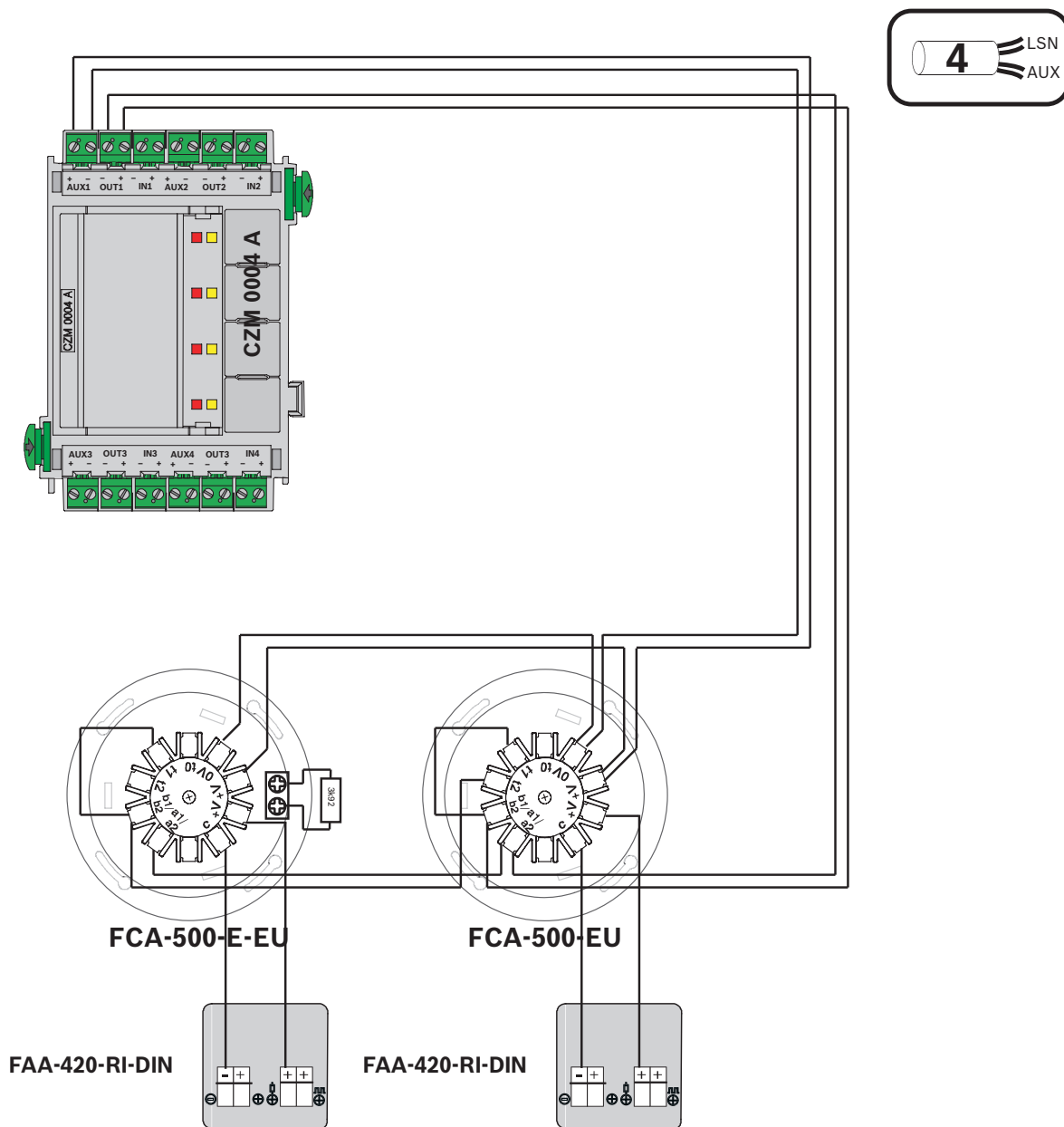
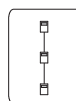


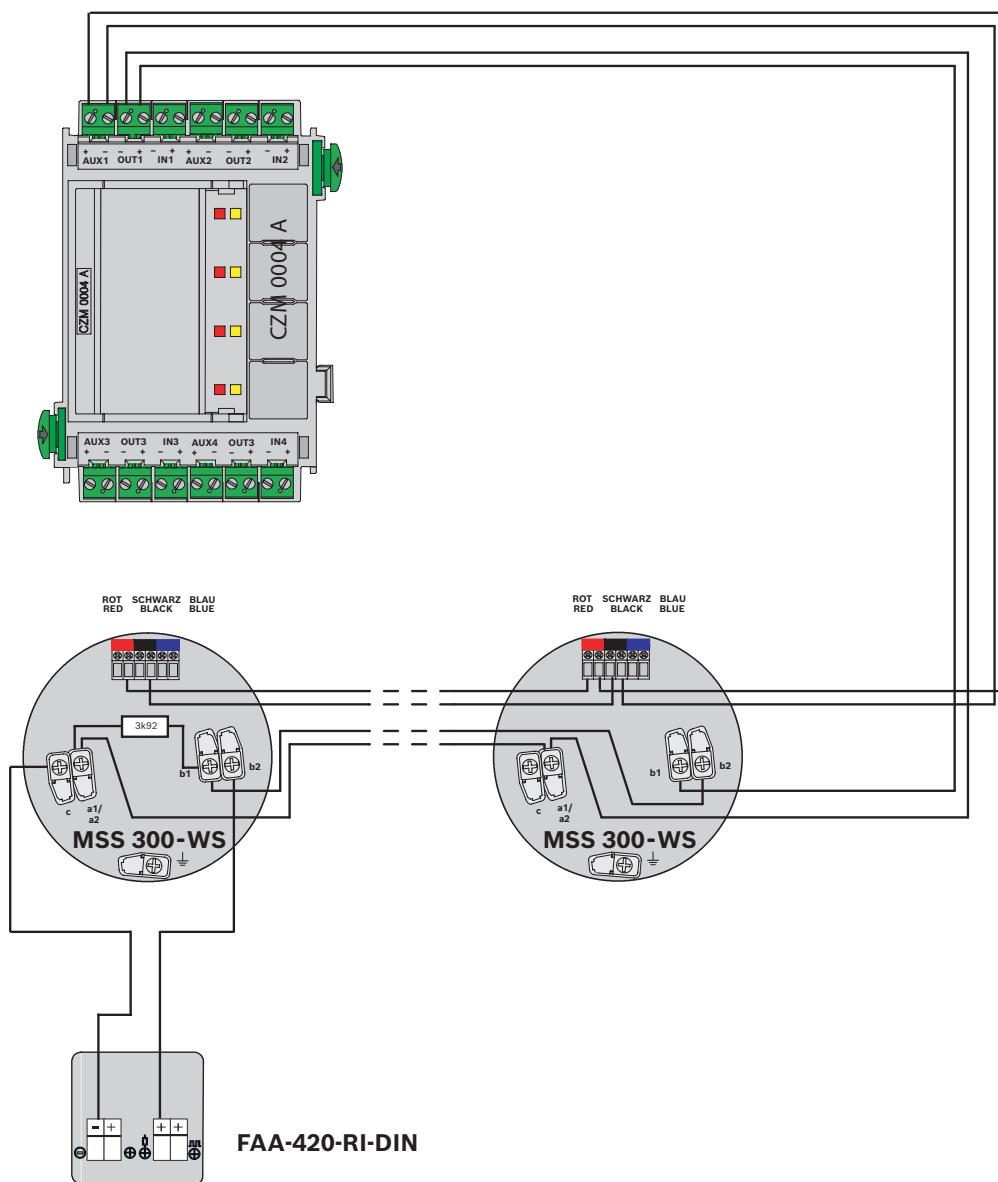
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Fireray 100RV

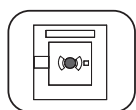
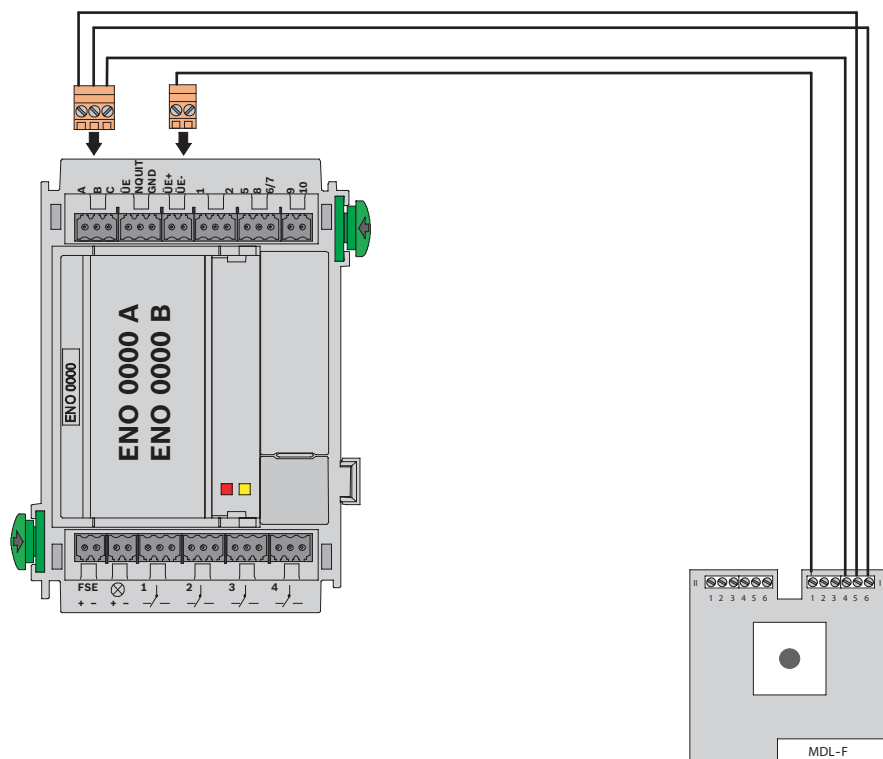


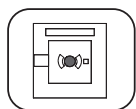


FCP-500

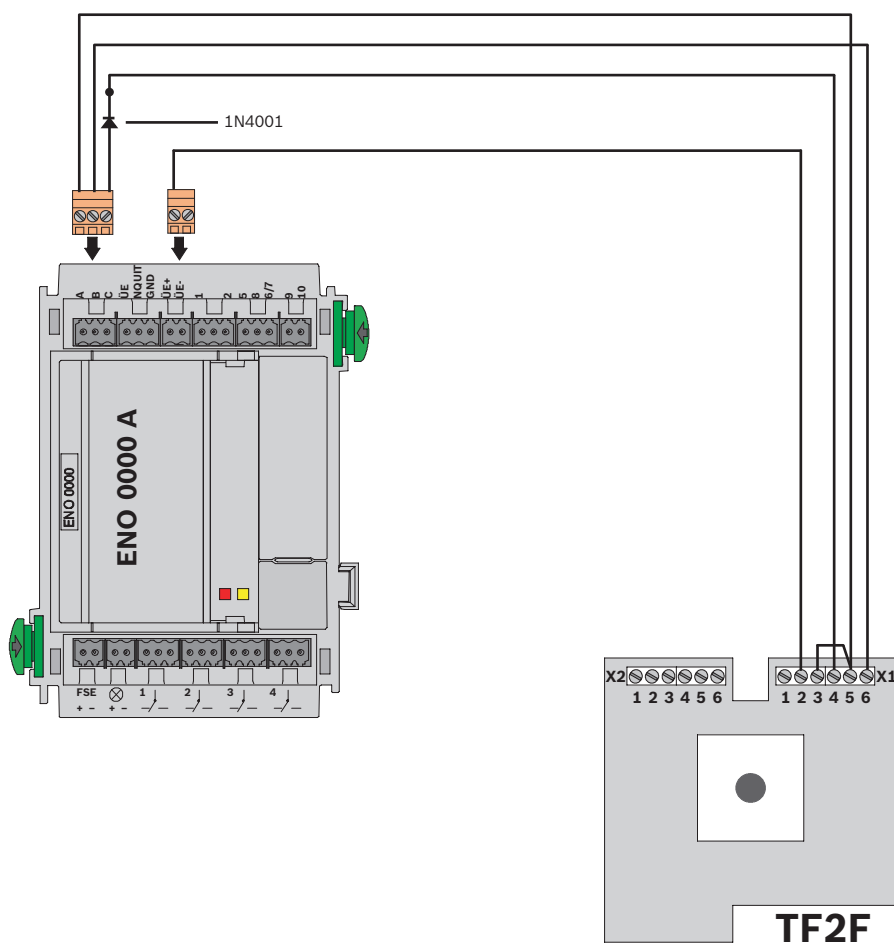
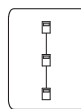


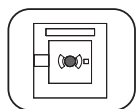
**MSS 300-WS**

**MDL-F**

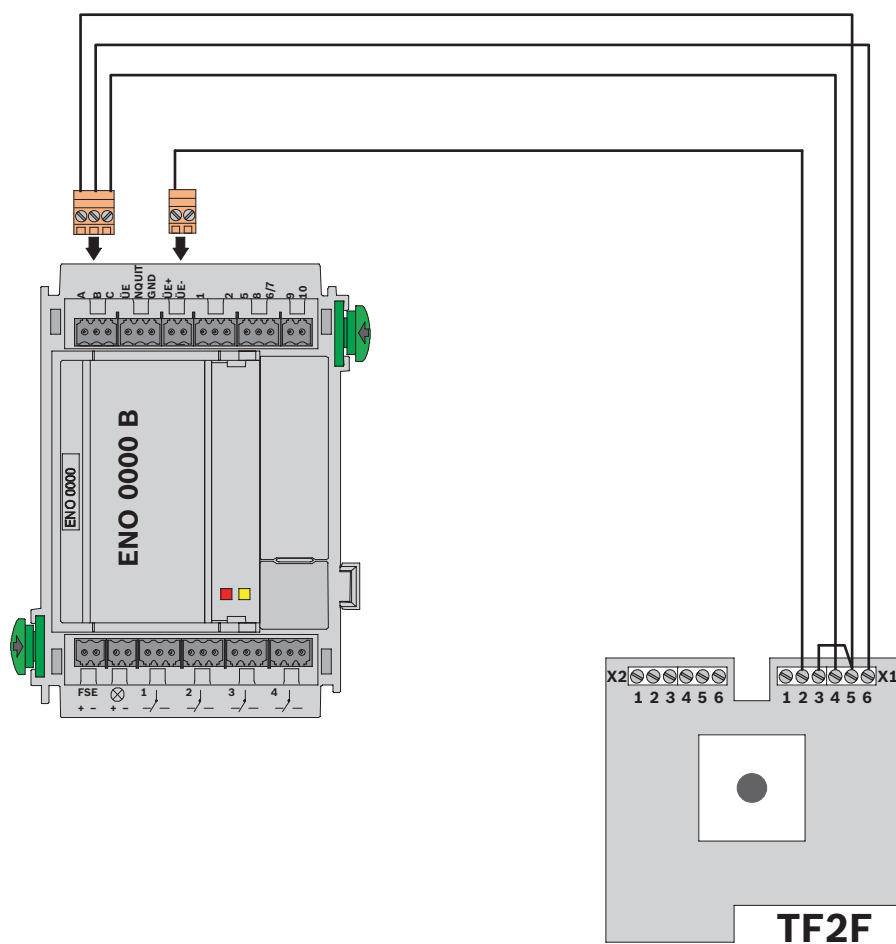
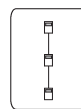


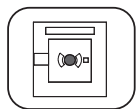
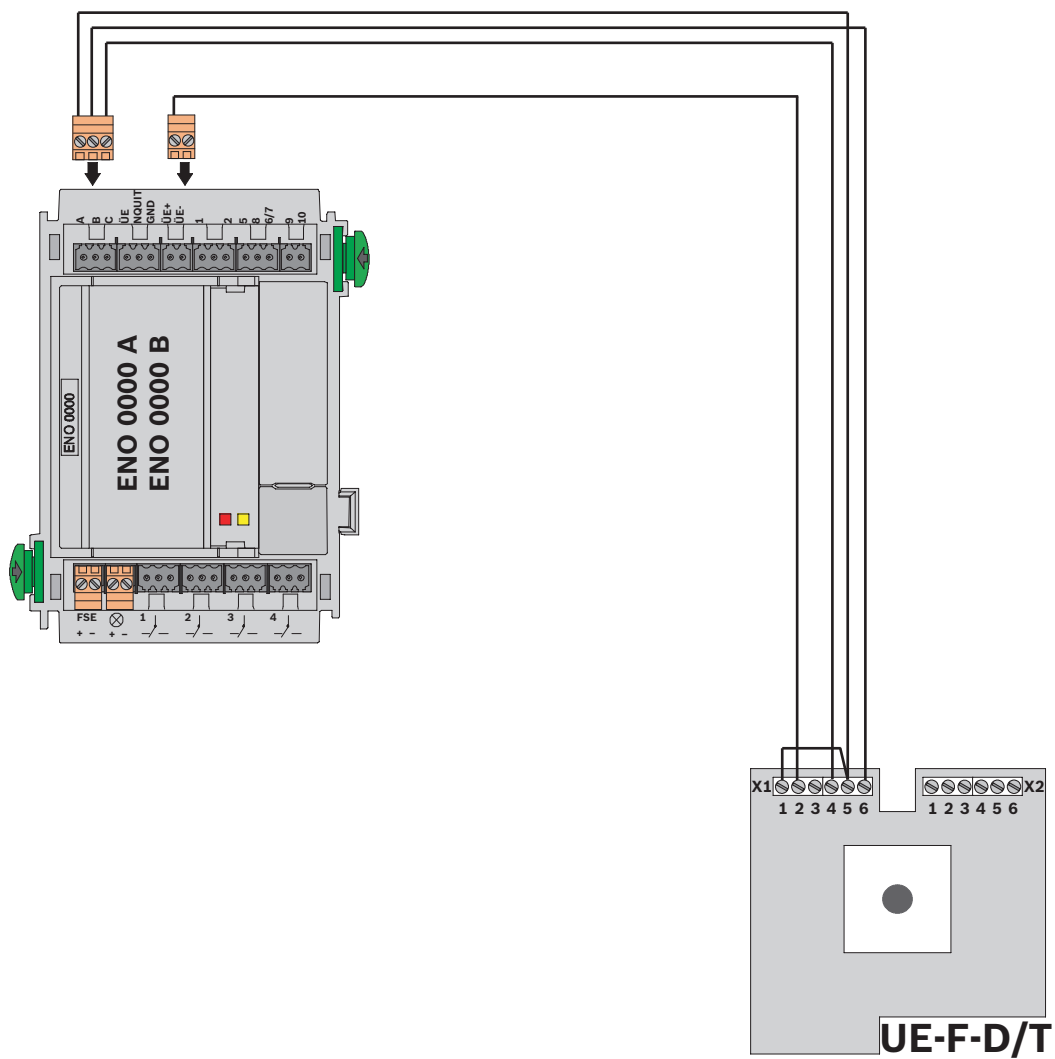
TF2F

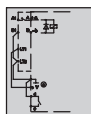
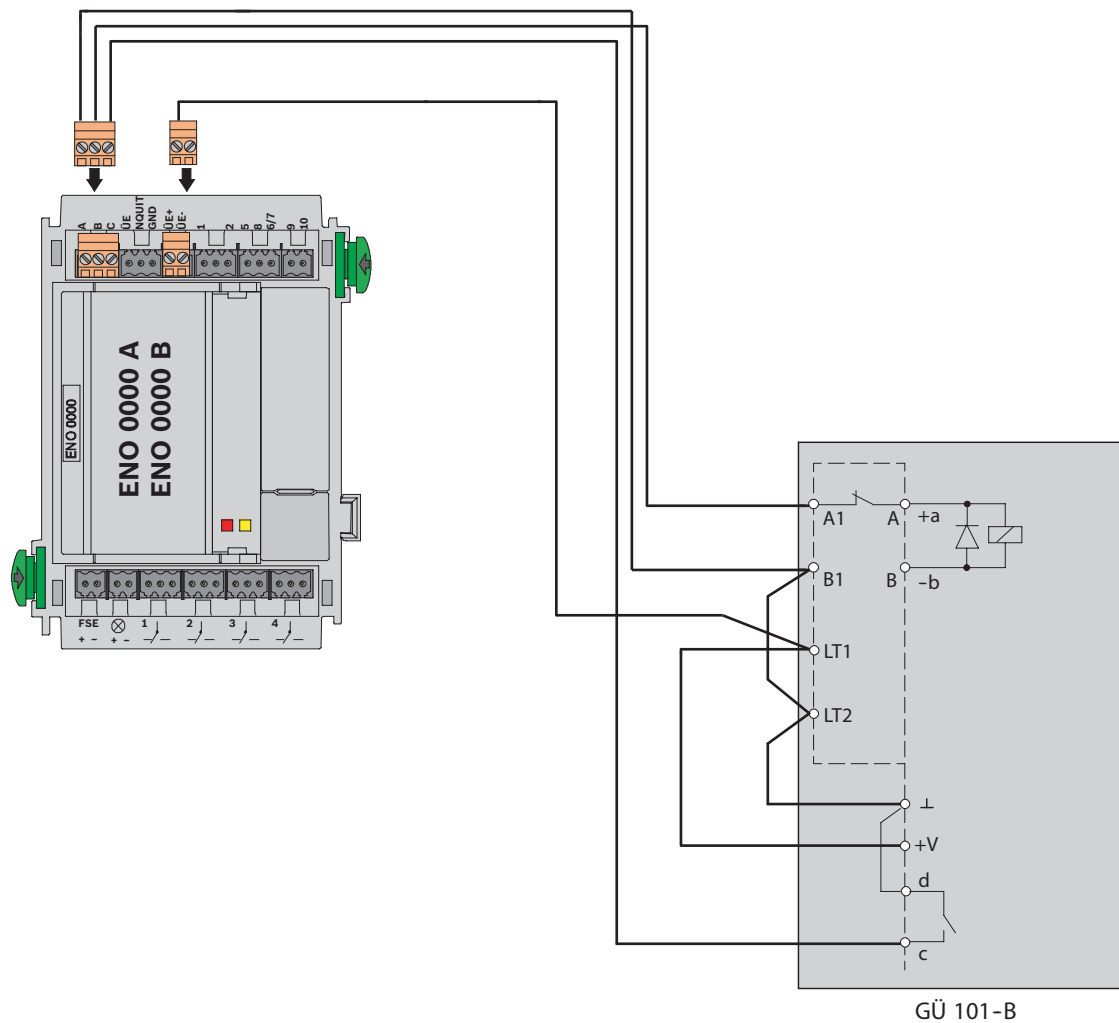
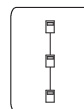


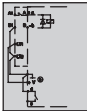


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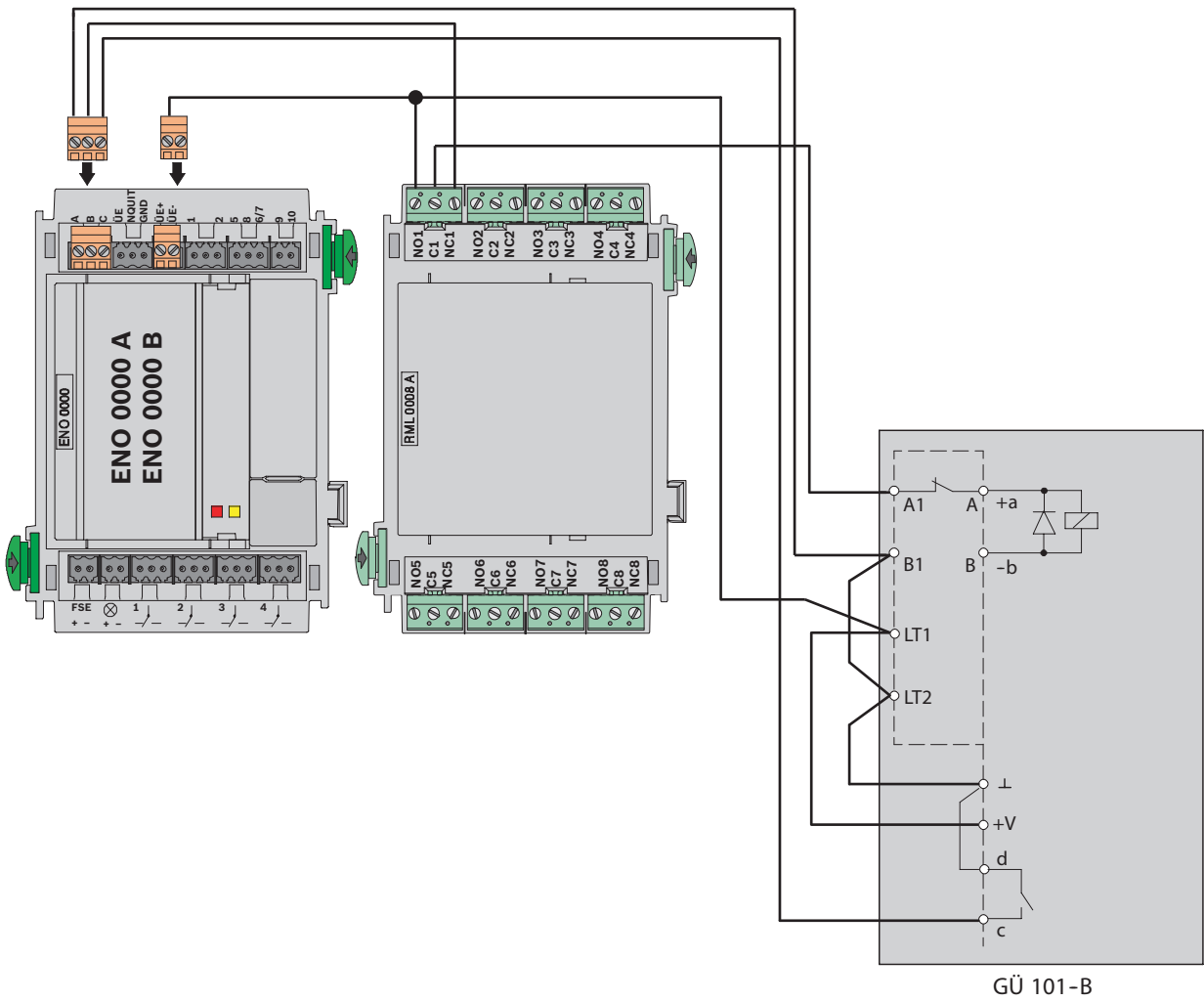
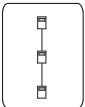


**UE-F-D/T**

**GÜ 101-B**

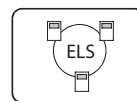
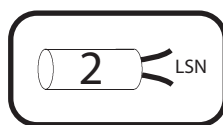


GÜ 101-B

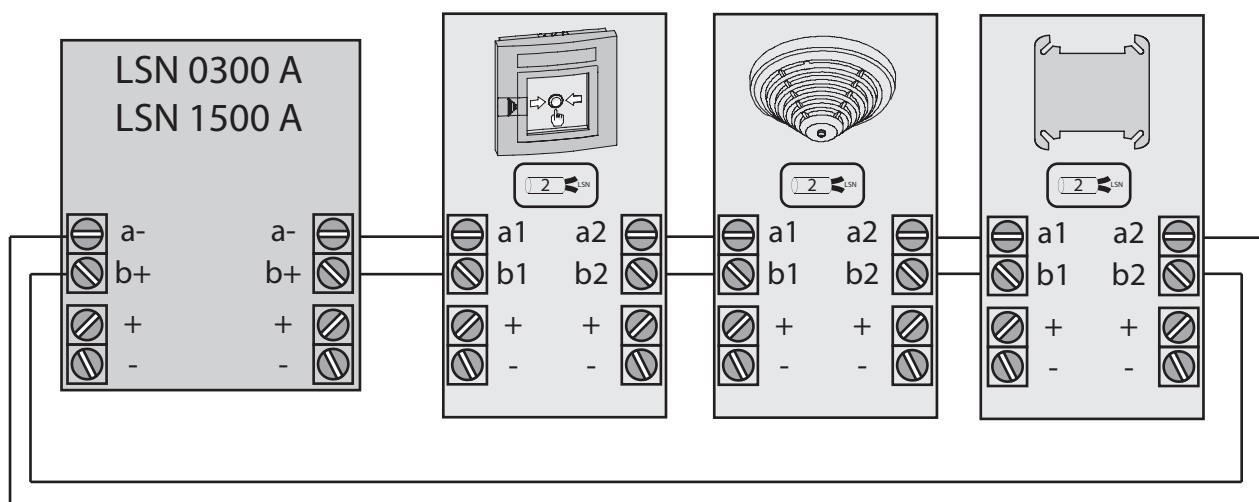


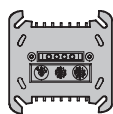
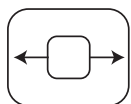
3.3.4

LSN 0300 A

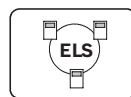


VdS 2489

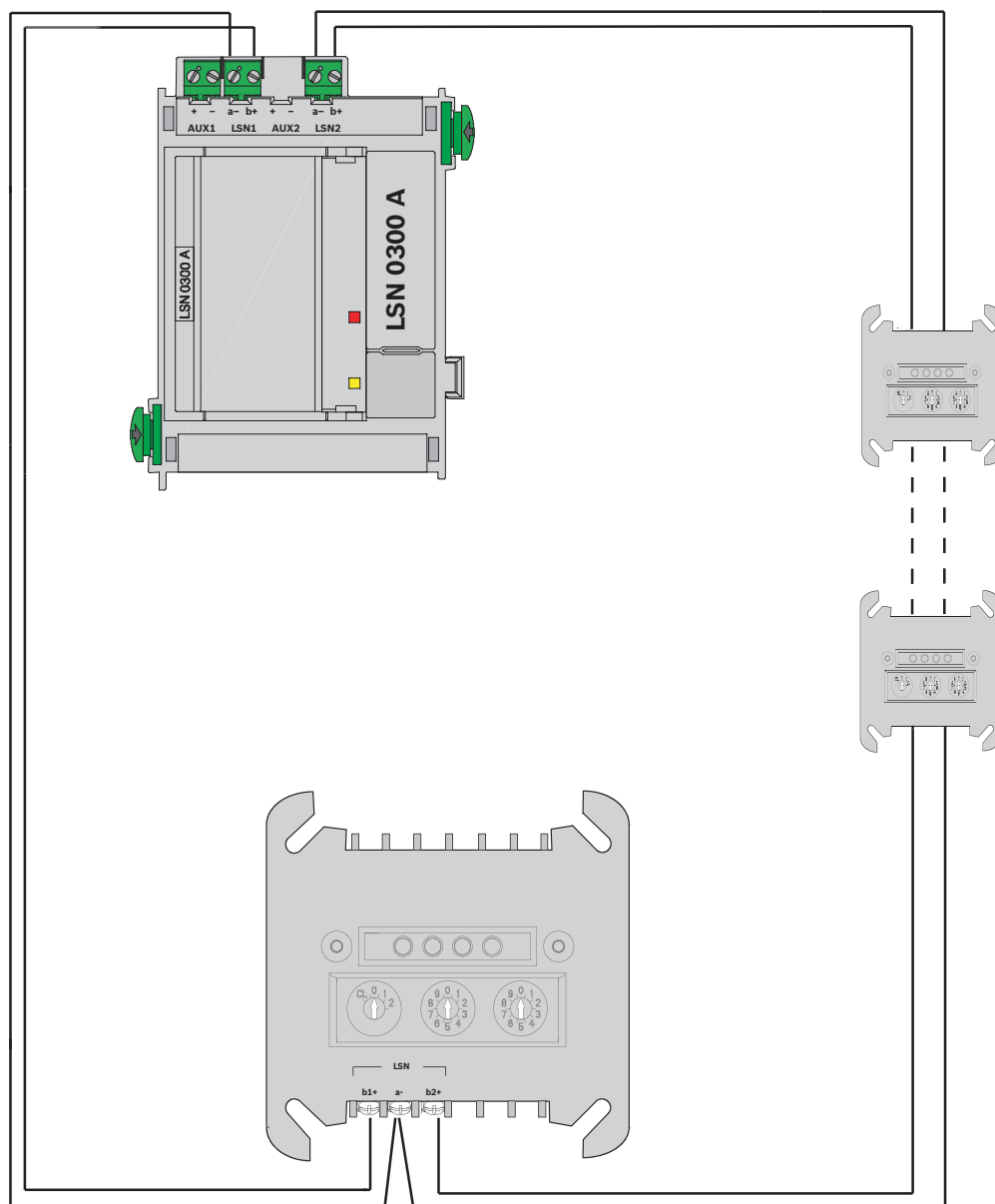


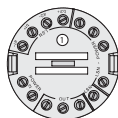
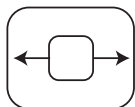


FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

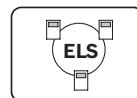


VdS 2489

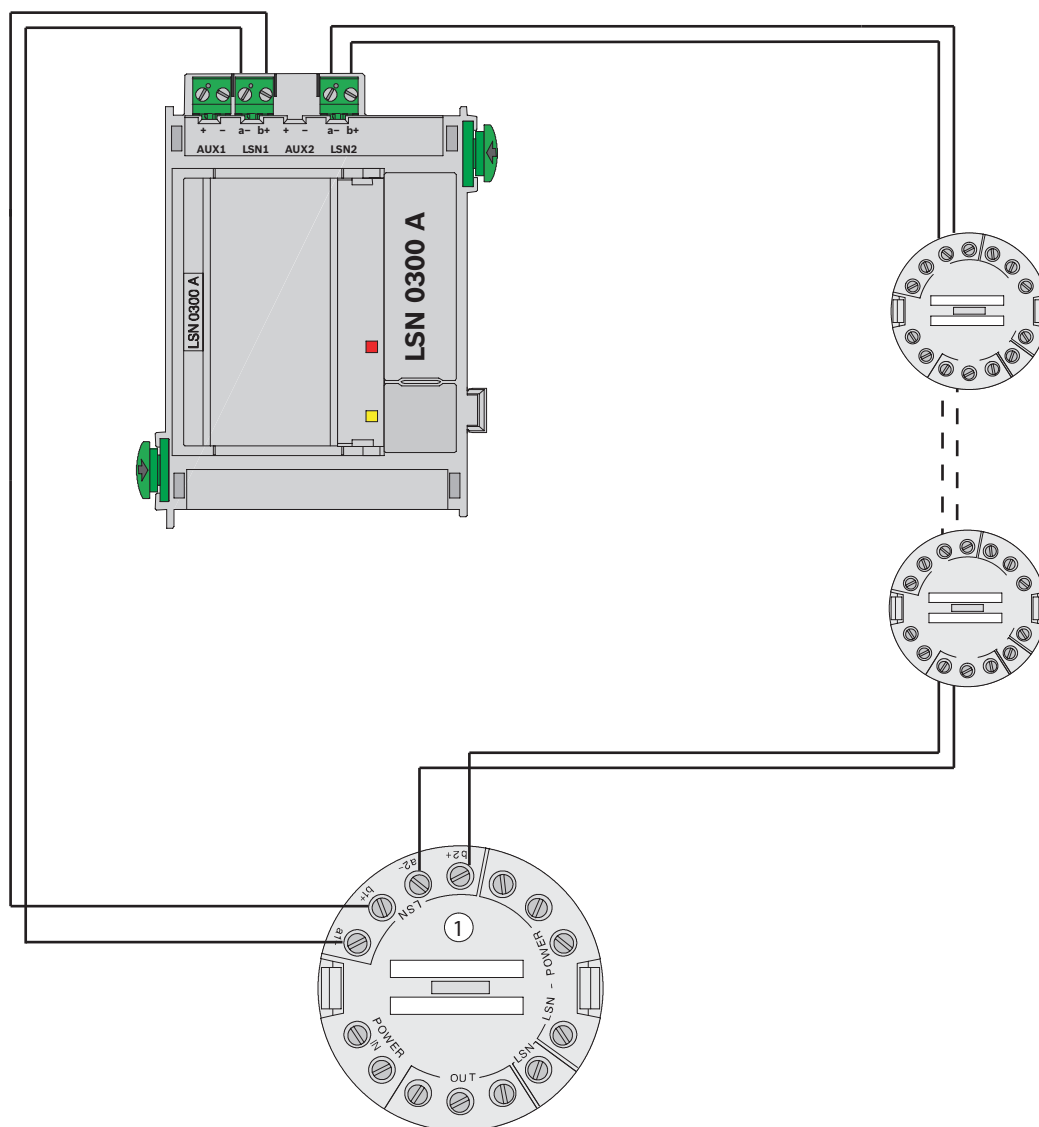


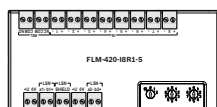
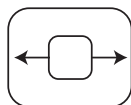
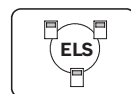
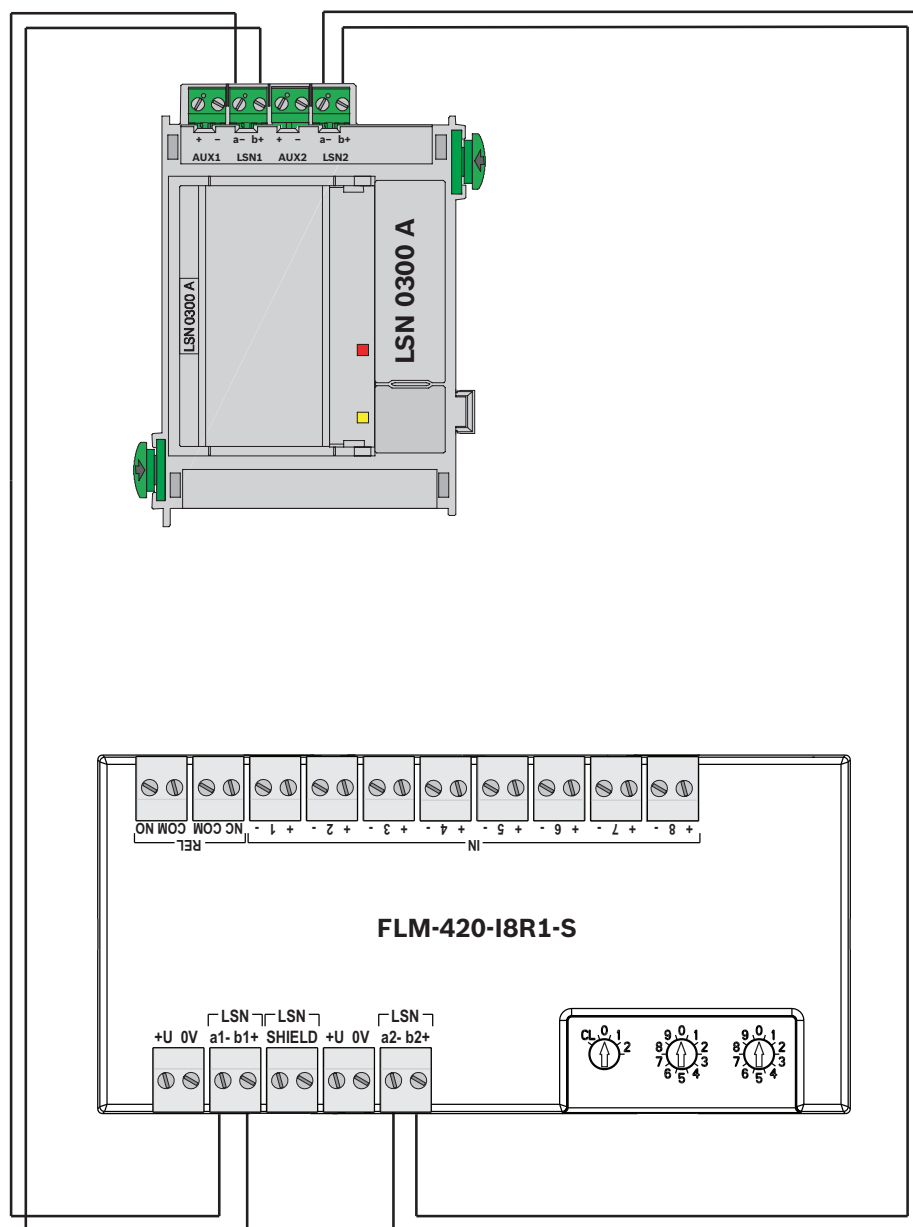


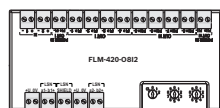
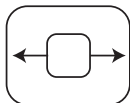
FLM-420-I2-E/W
FLM-420-RLV1-E



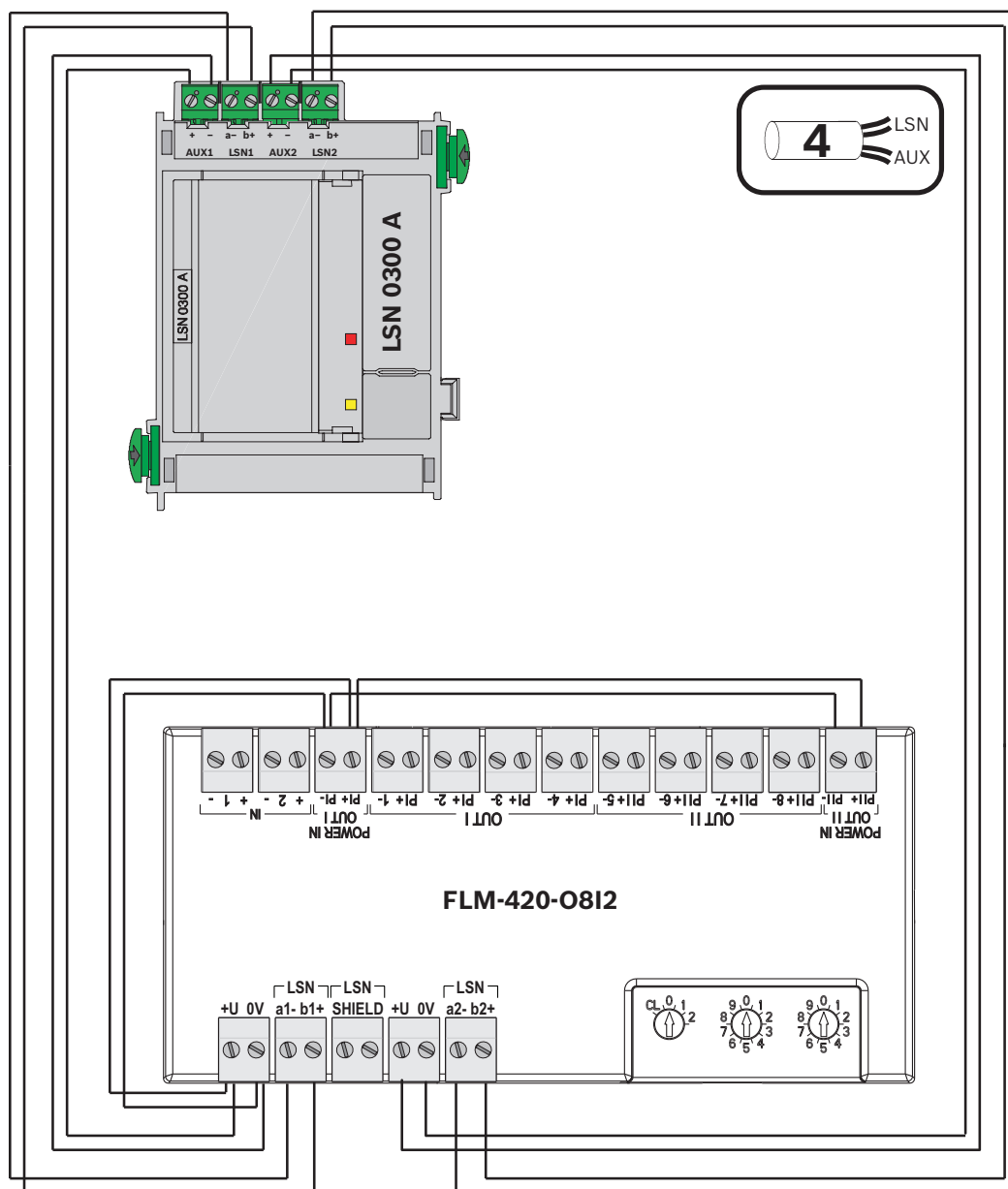
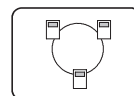
VdS 2489

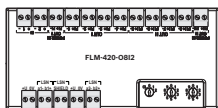
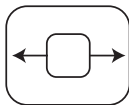


**FLM-420-I8R1-S****VdS 2489**

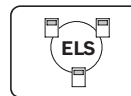


FLM-420-O8I2-S

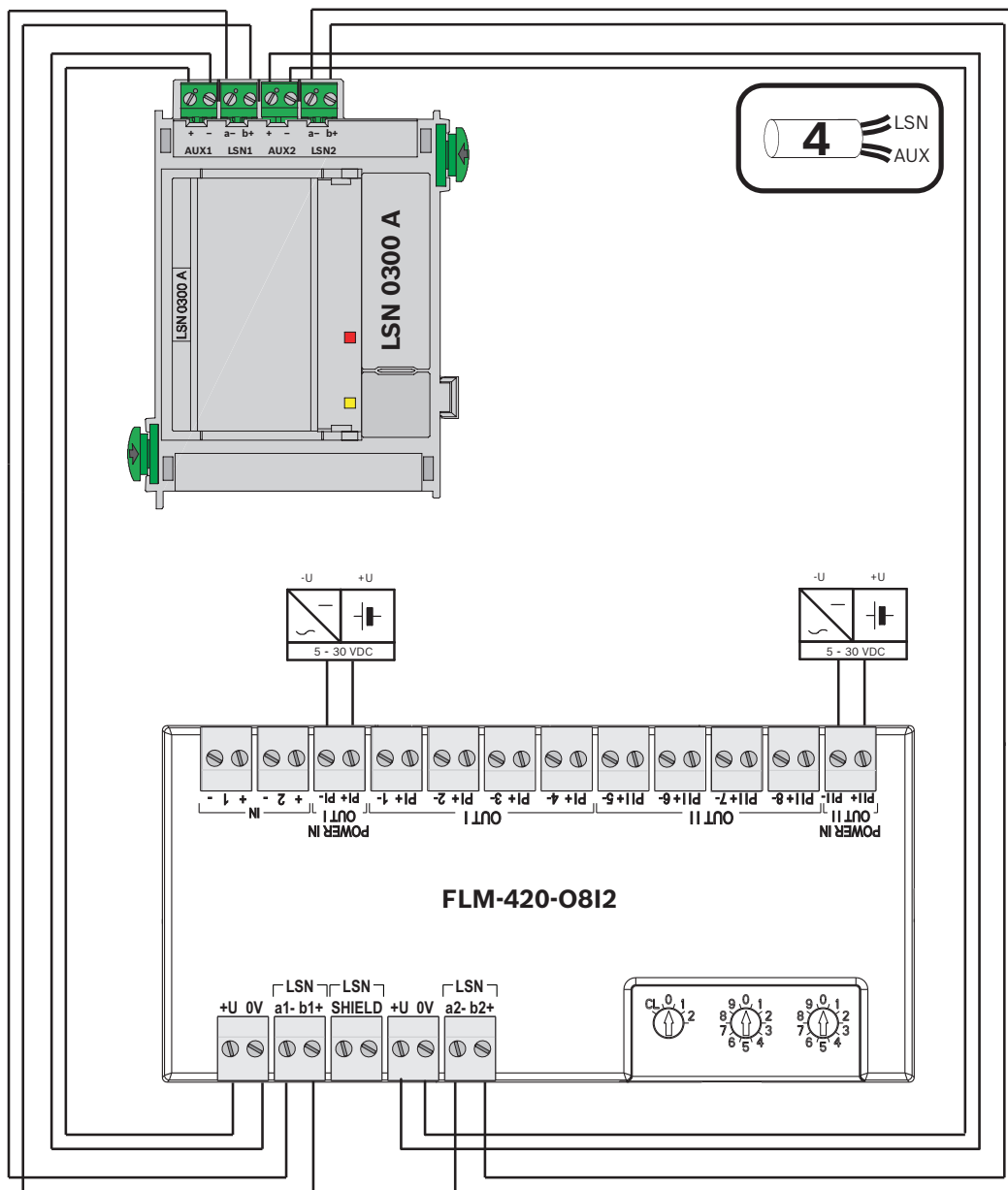


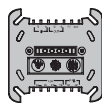
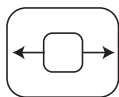


FLM-420-0812-S

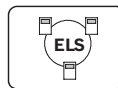


VdS 2489

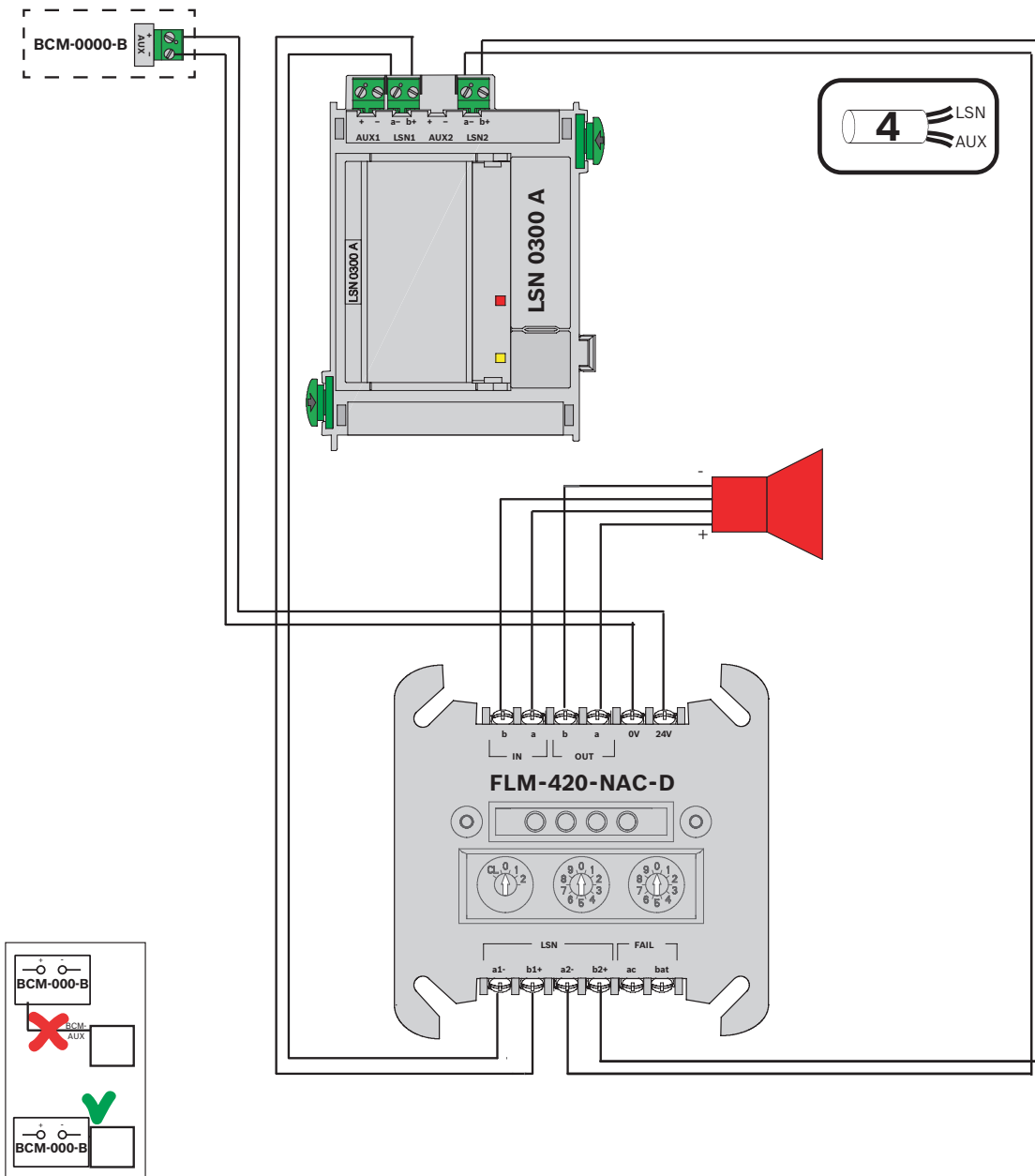


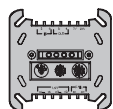
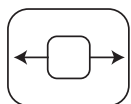


FLM-420-NAC-D/S

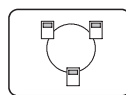


VdS 2489

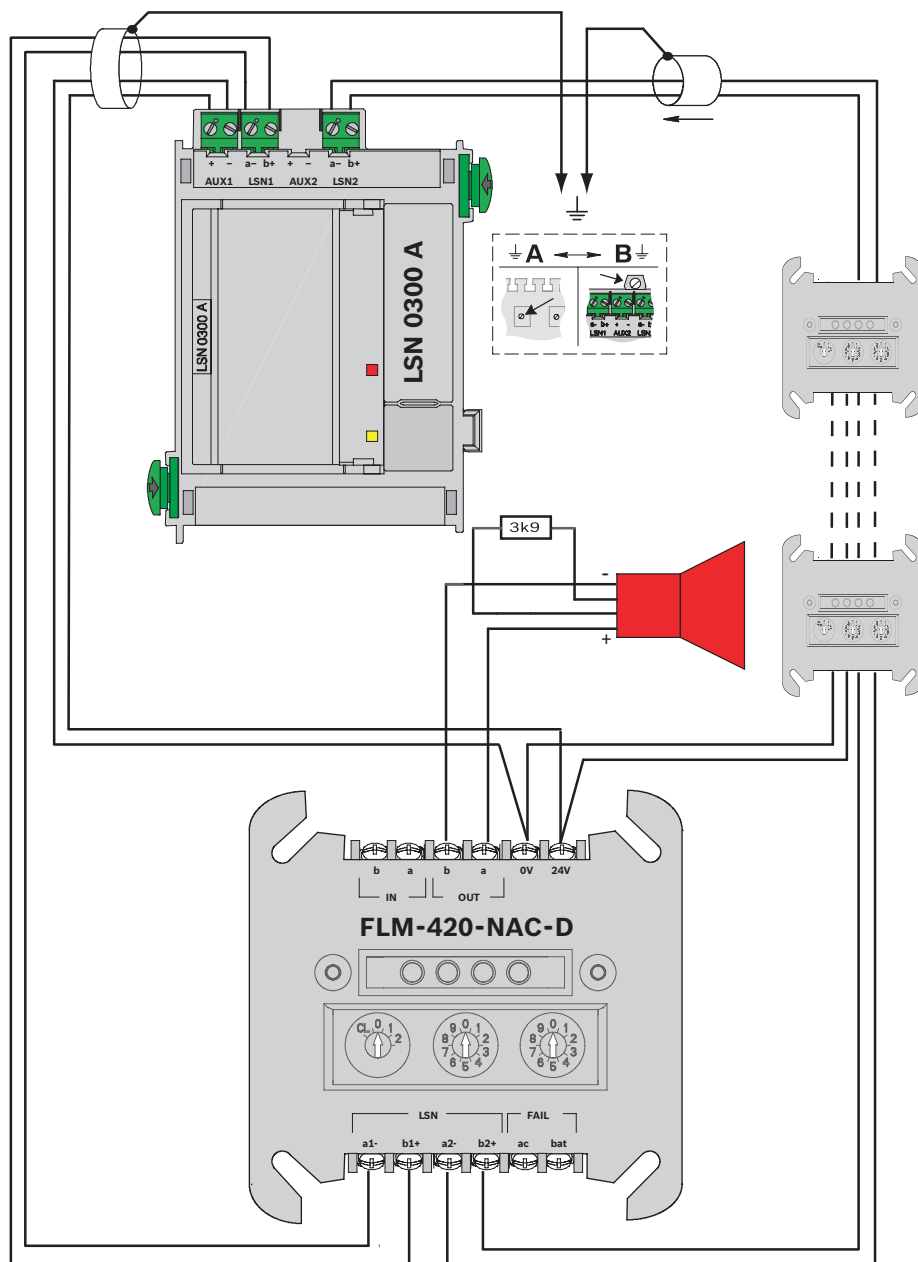


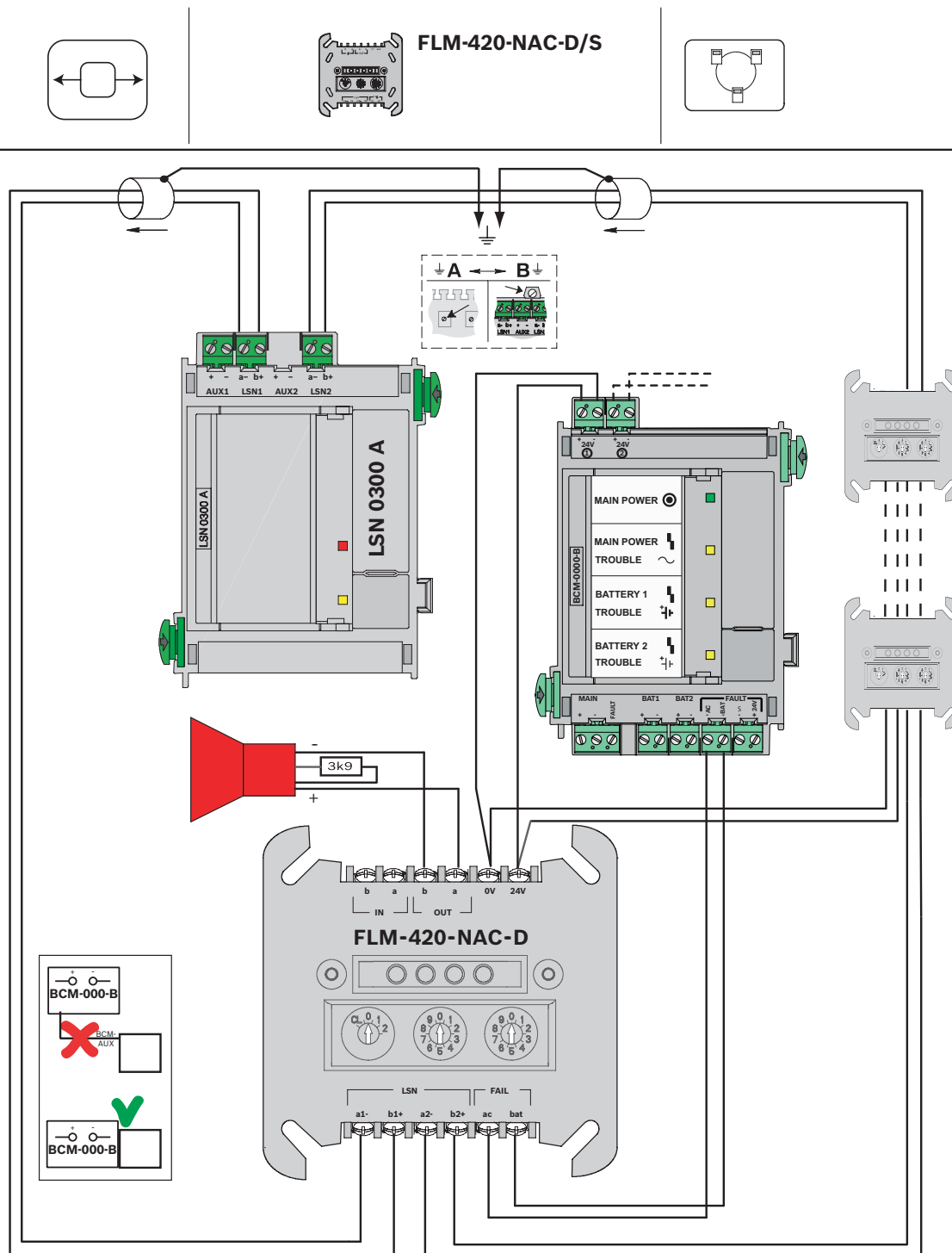


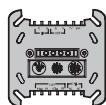
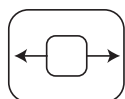
FLM-420-NAC-D/S



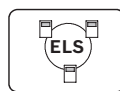
EN 54-2



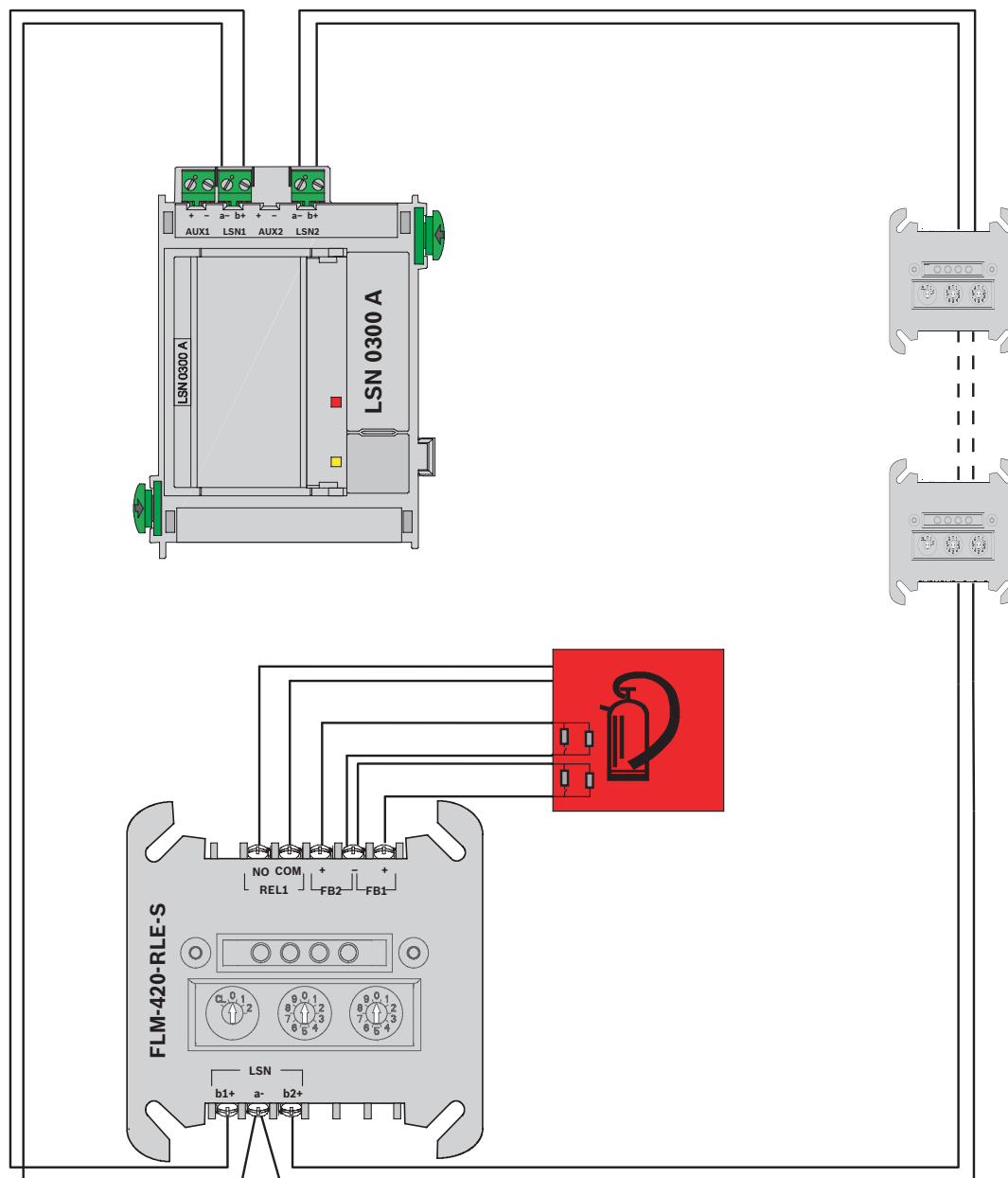


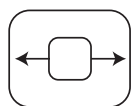
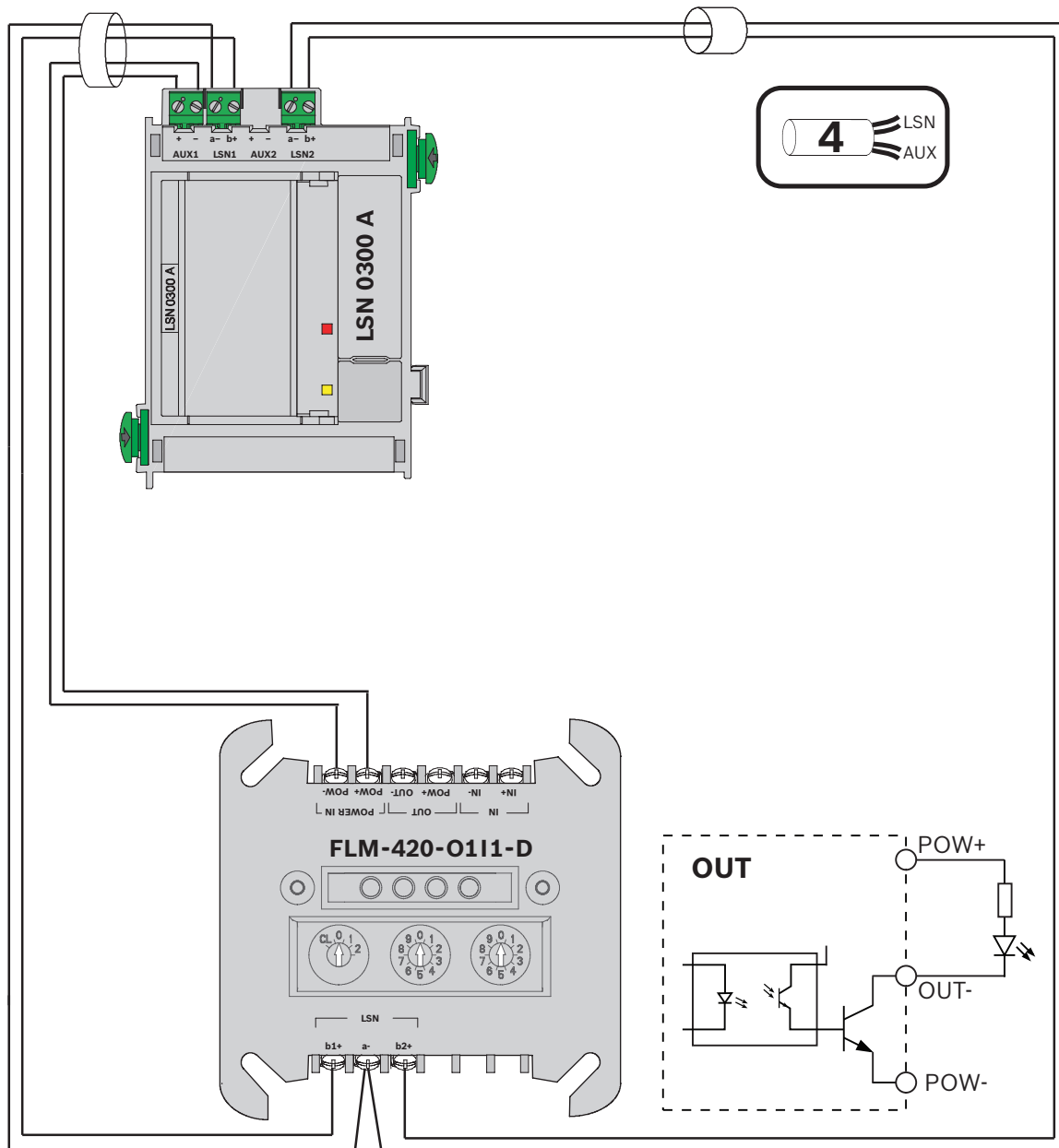
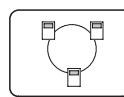


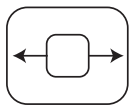
FLM-420-RLE-S



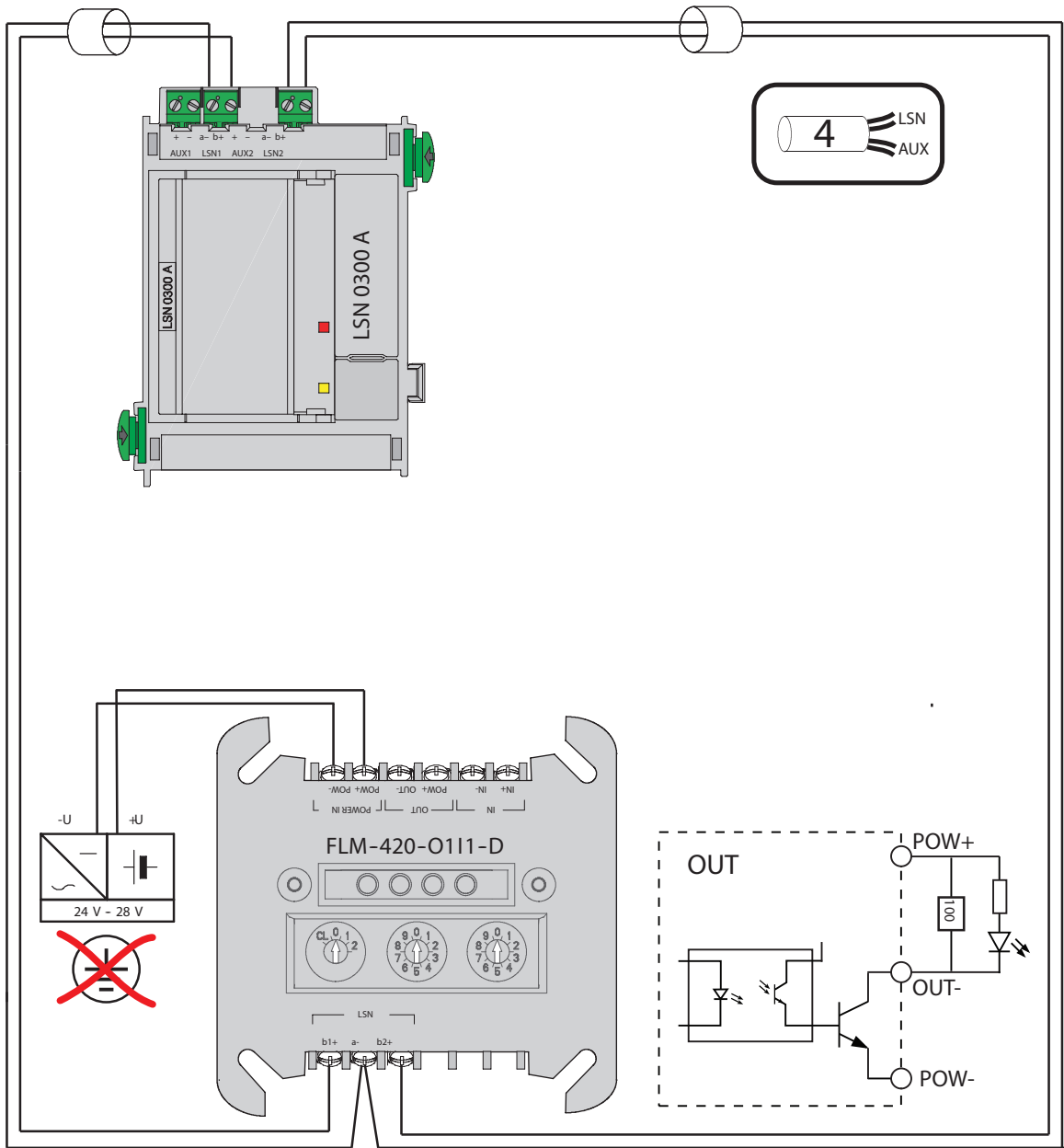
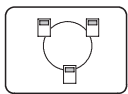
VdS 2489

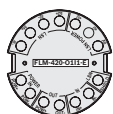
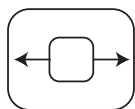


**FLM-420-O1I1-D**

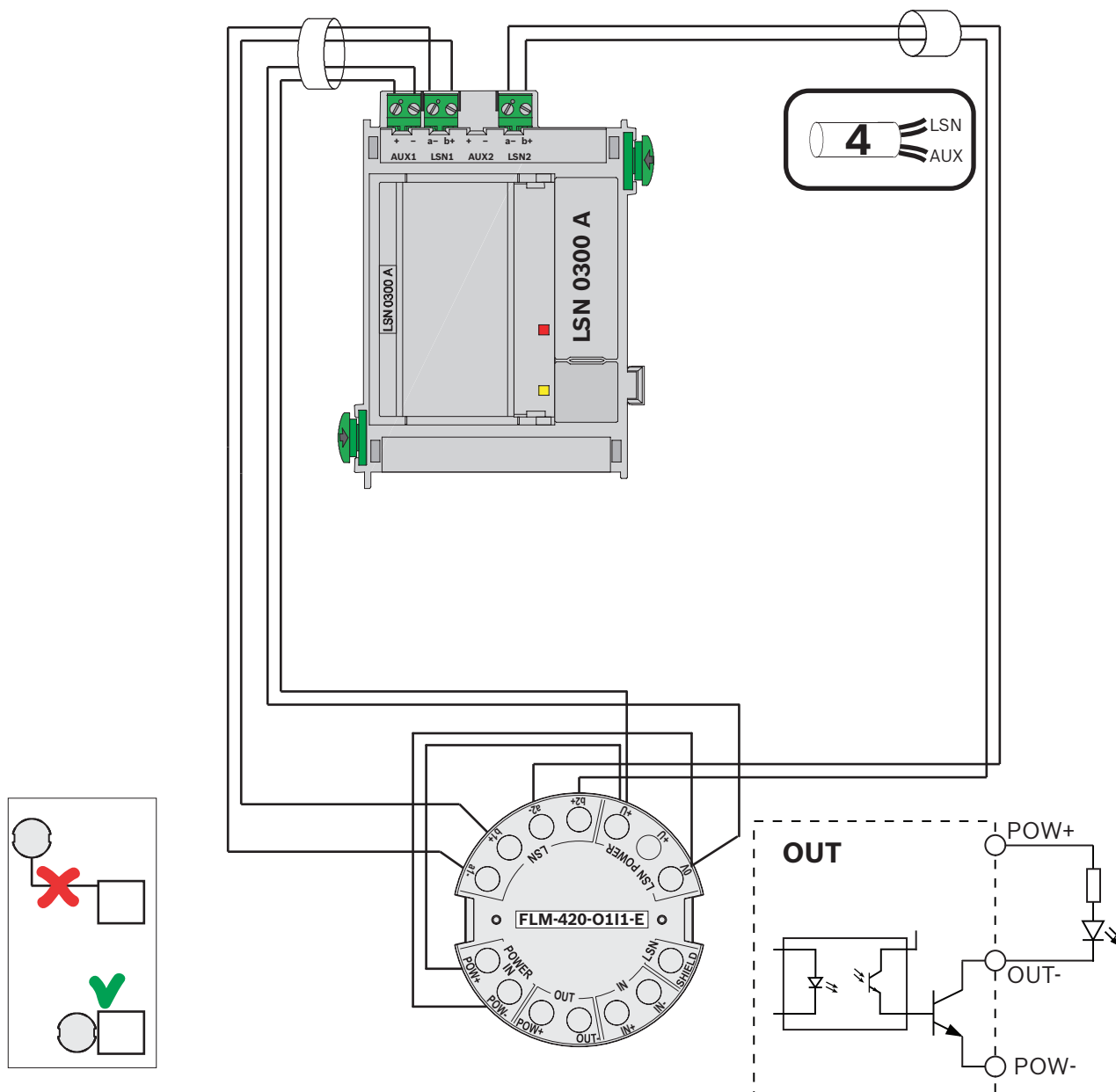
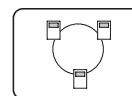


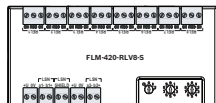
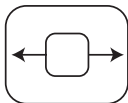
FLM-420-O111-D



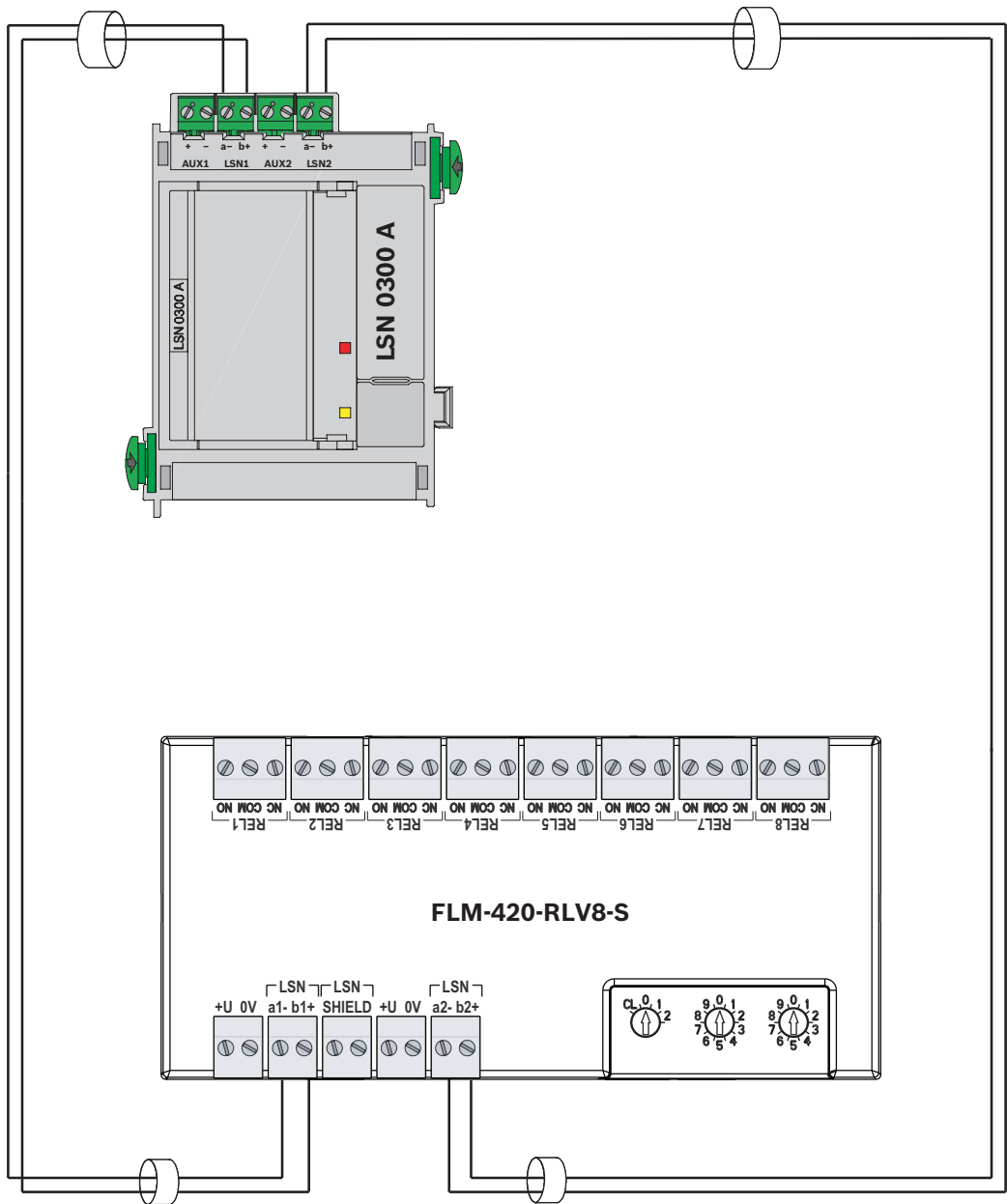
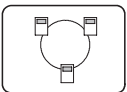


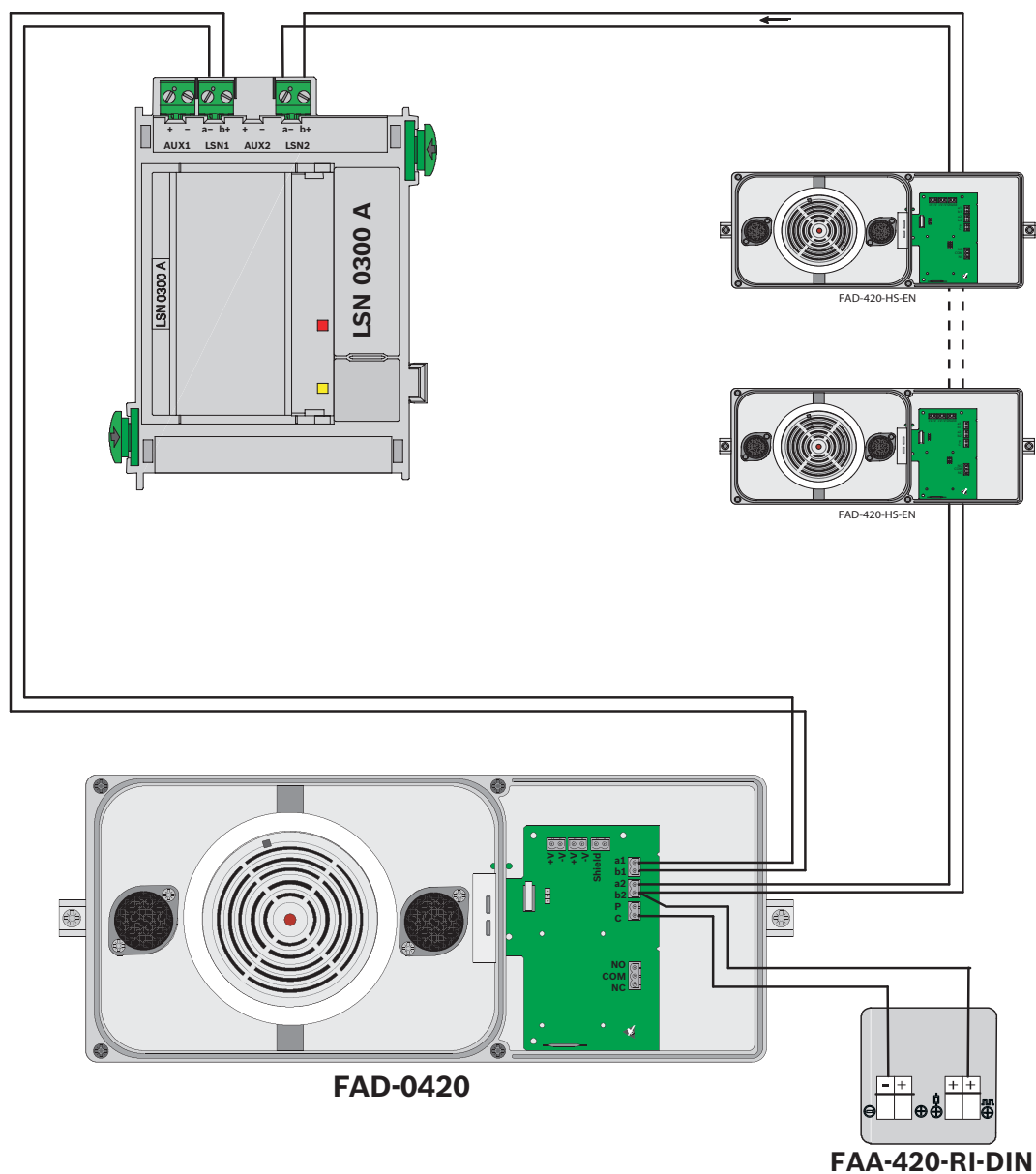
FLM-420-O1I1-E

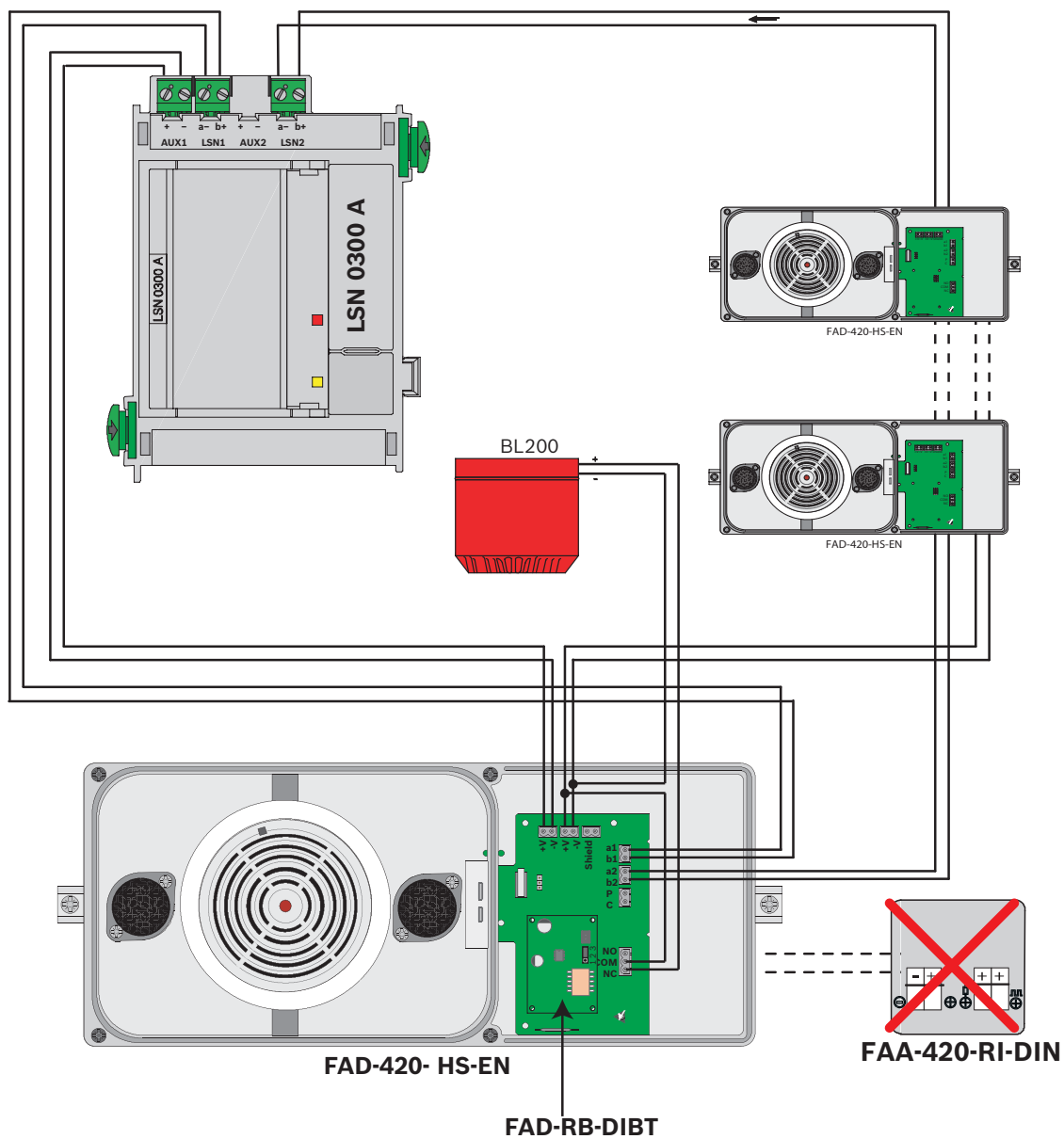


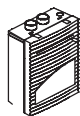
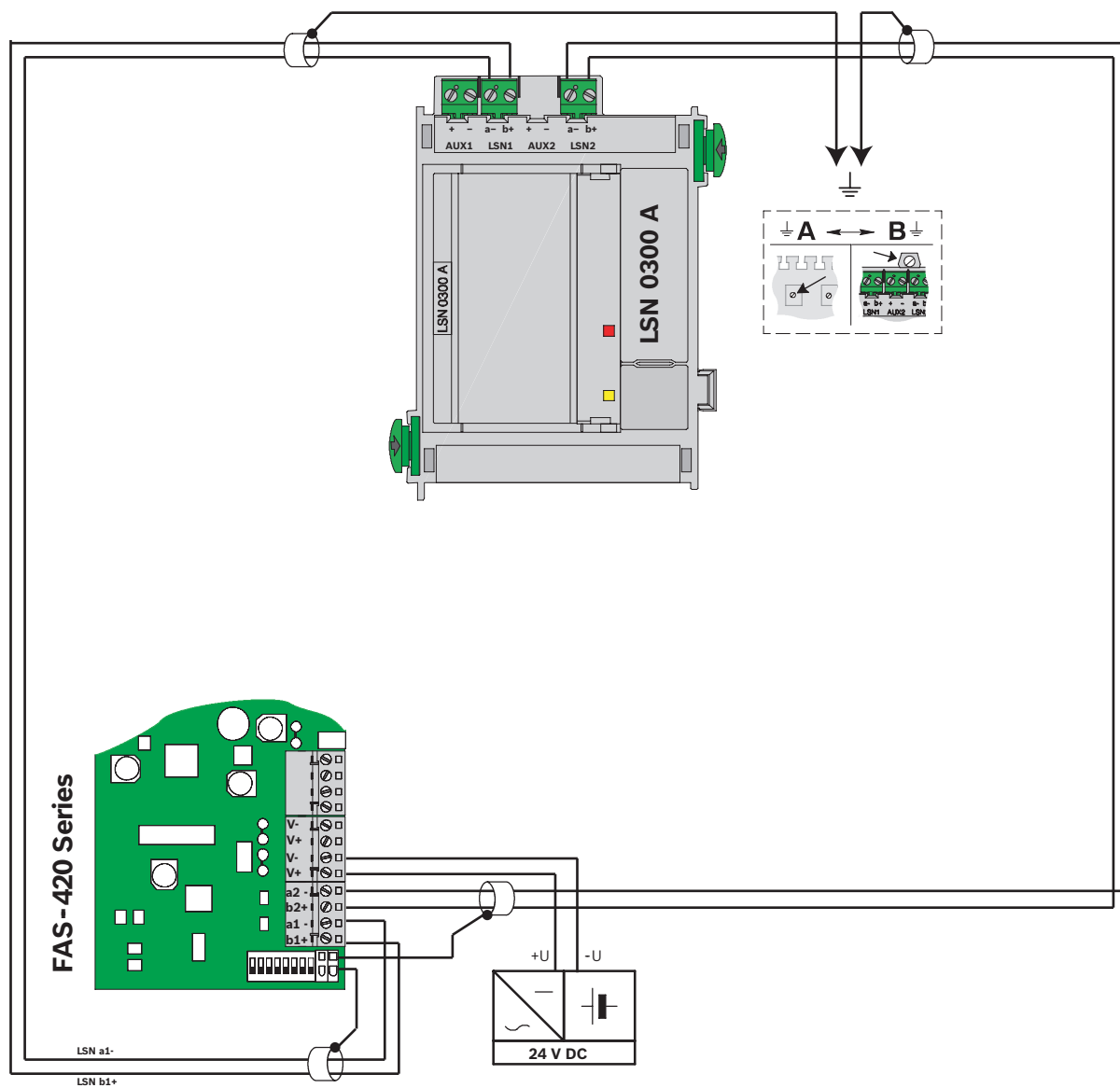


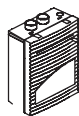
FLM-420-RLV8-S



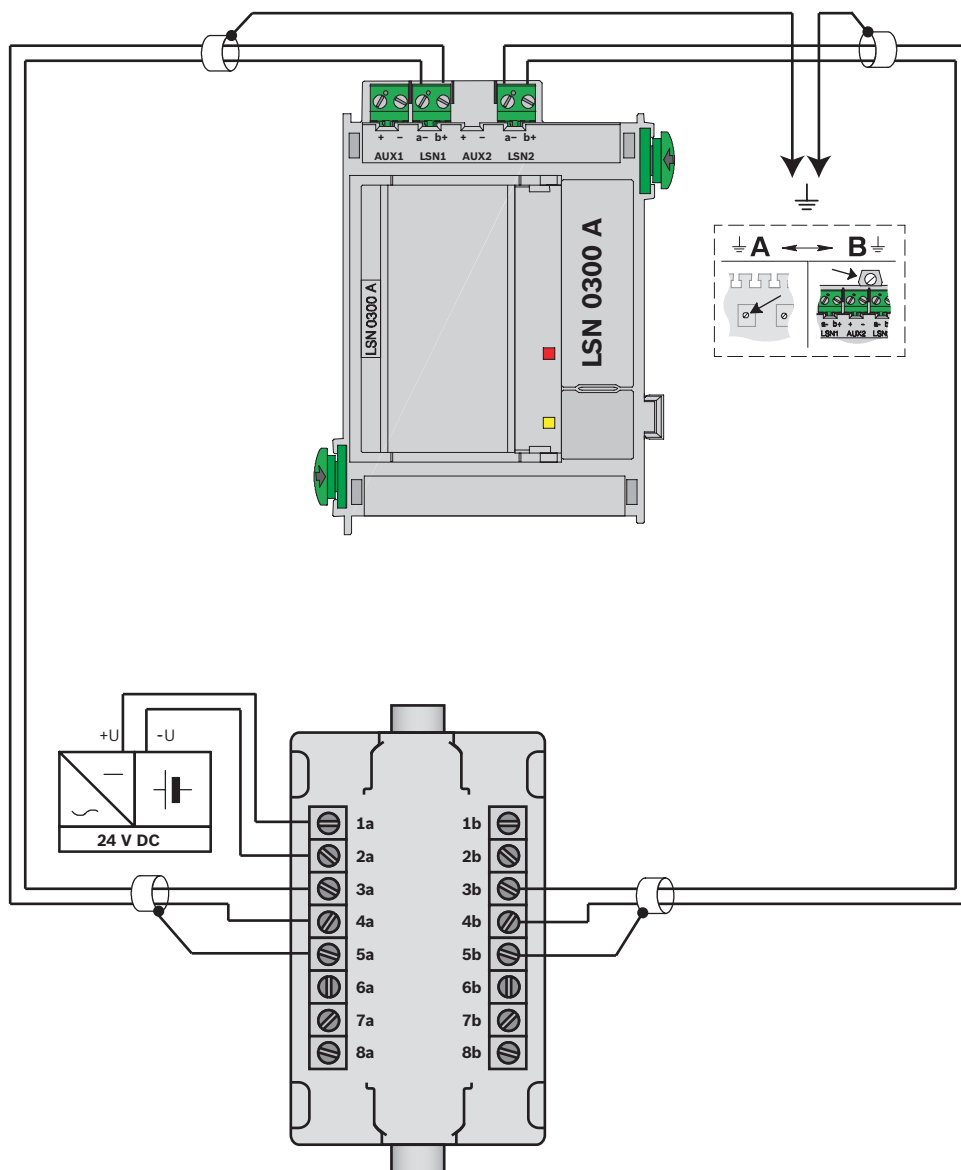
**FAD-0420**

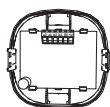
**FAD-420-HS-EN**

**FAS-420 Series**

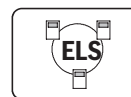


FAS-420-TM Series

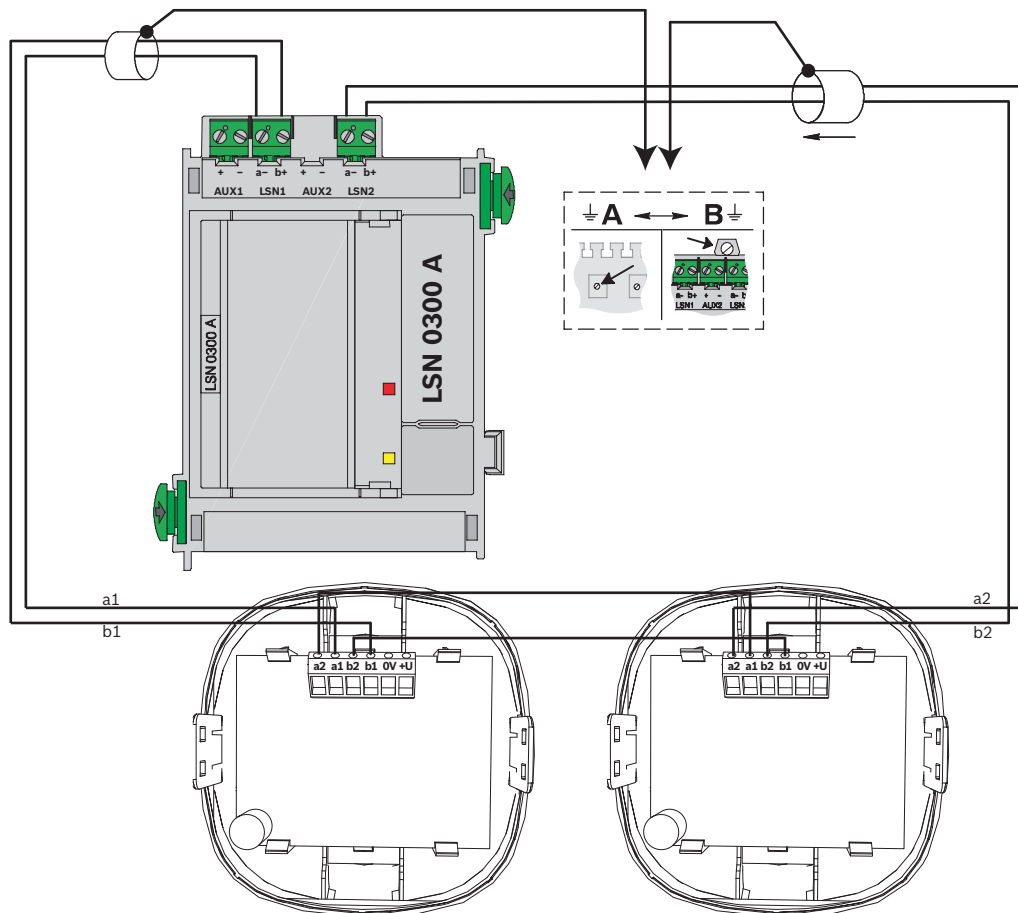




FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A



VdS 2489

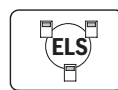


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

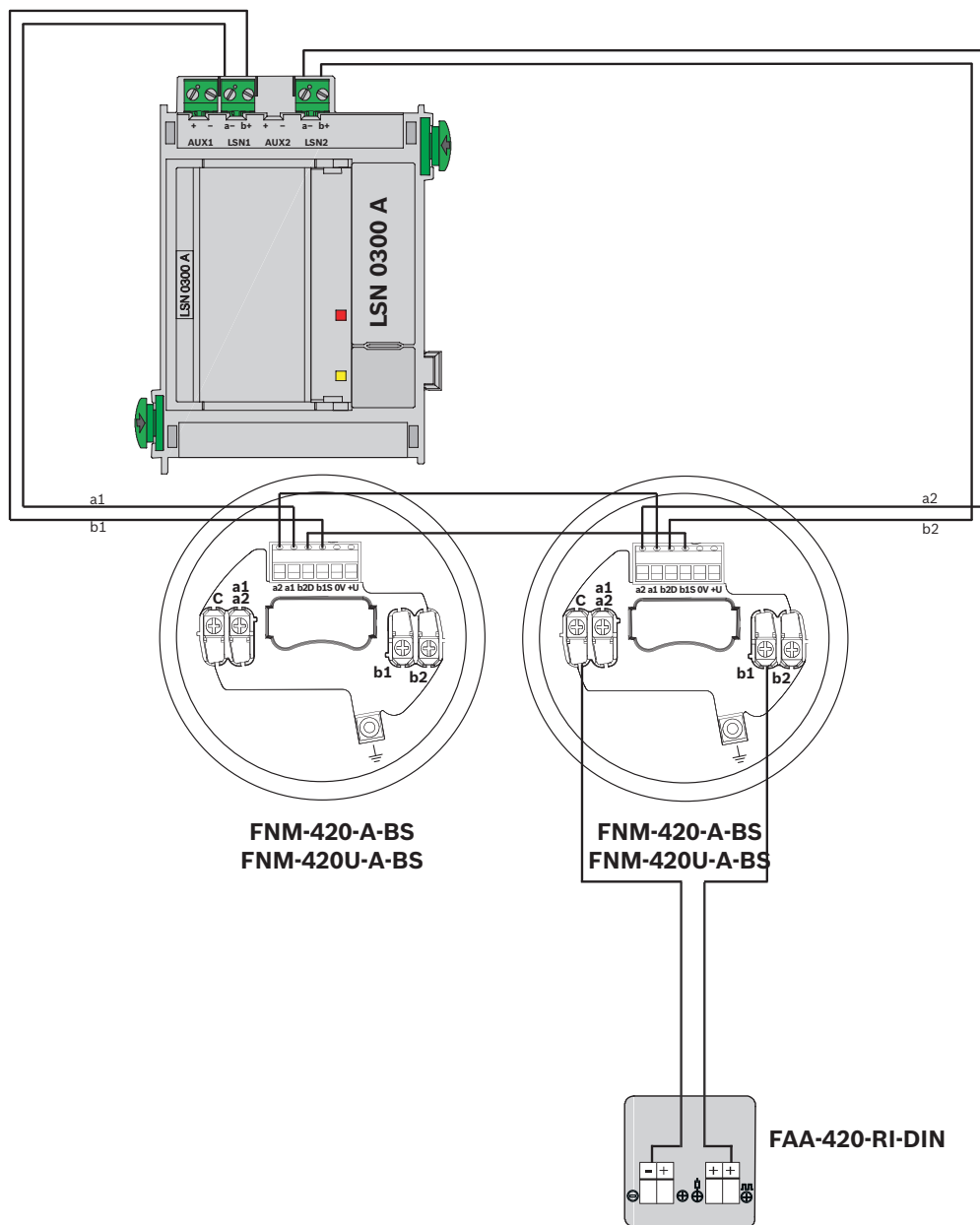
FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



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



VdS 2489

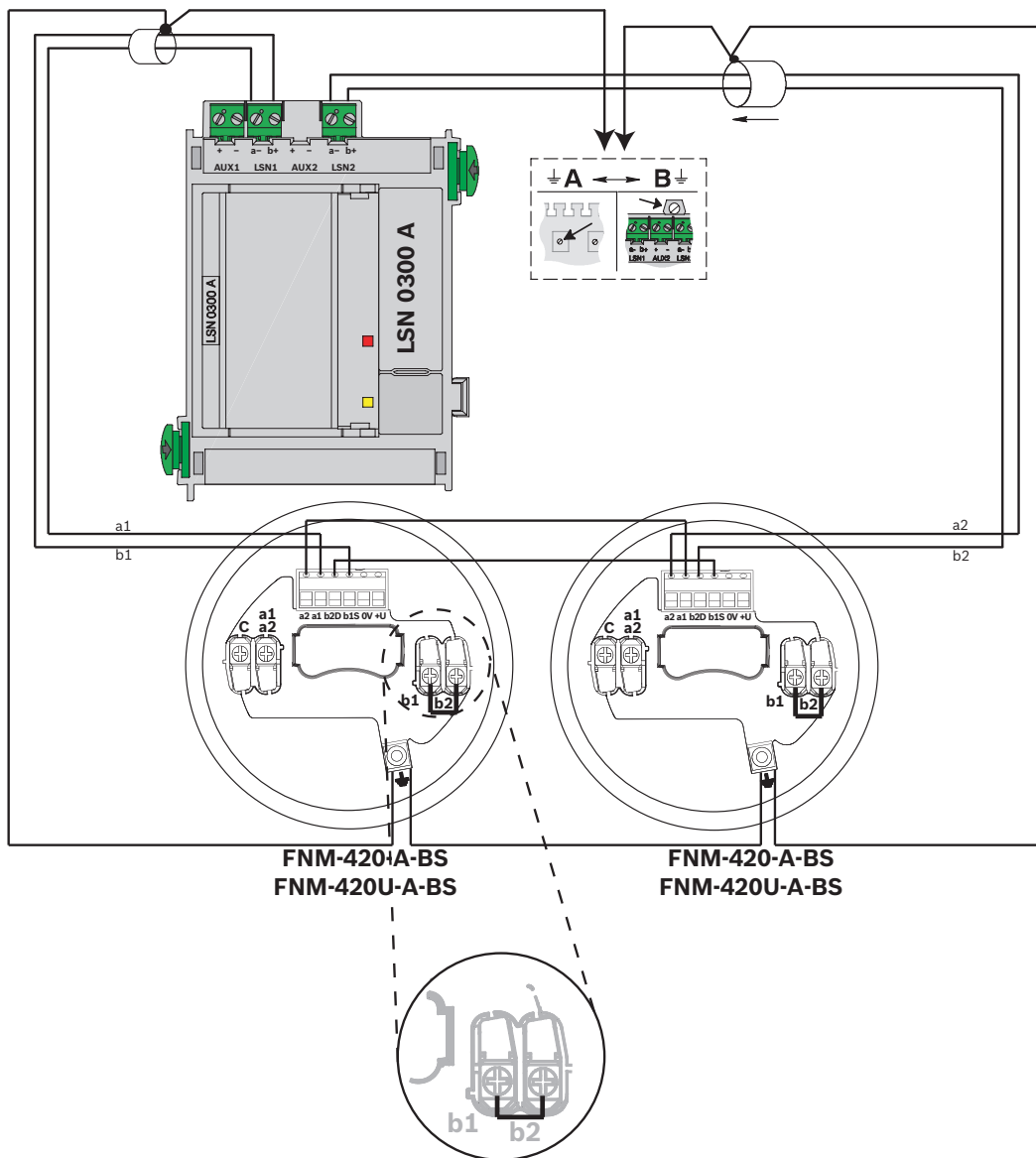


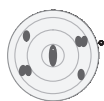


FNM-420-A-BS
FNM-420U-A-BS

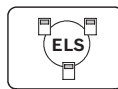


VdS 2489

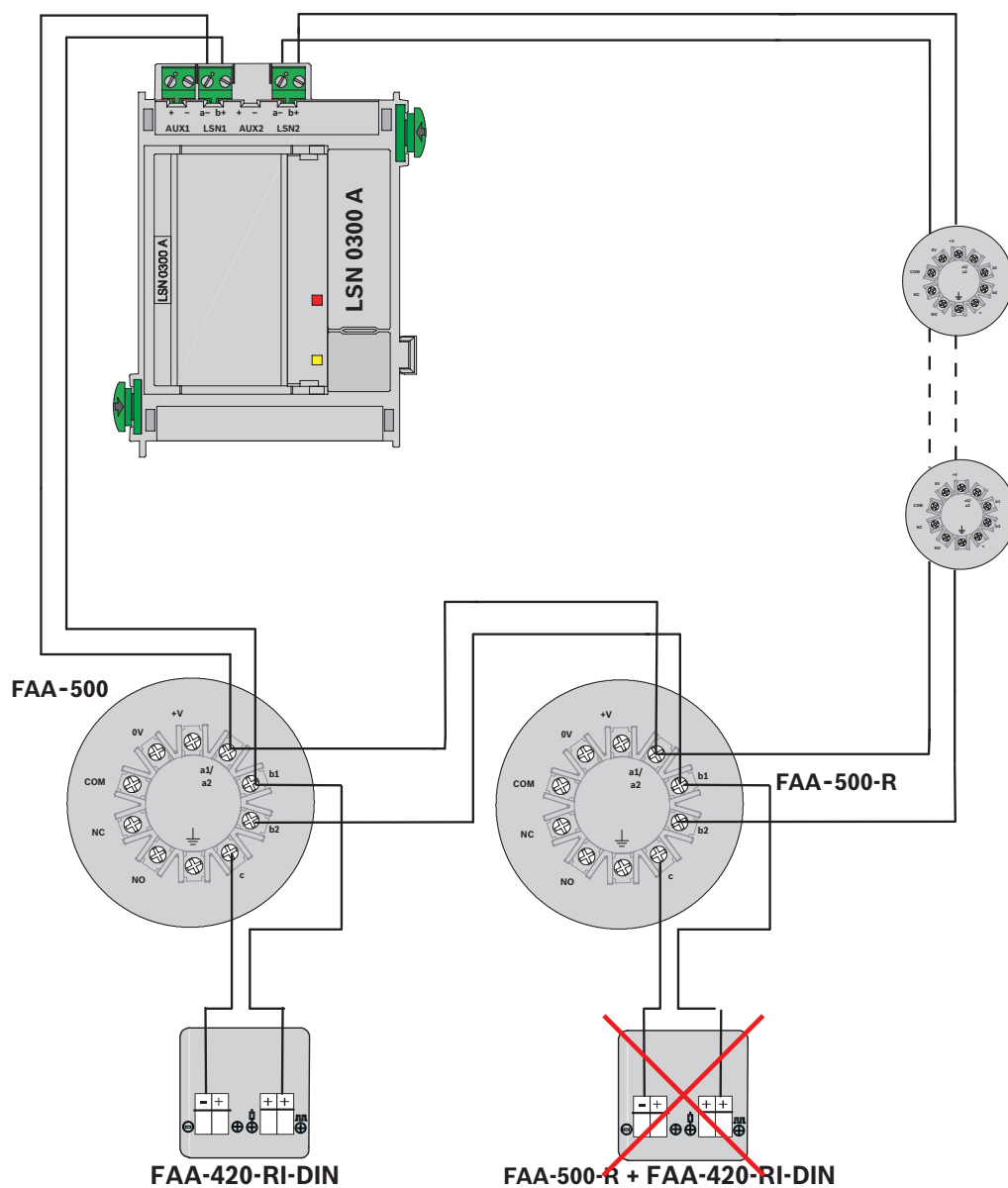




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

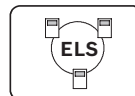


VdS 2489

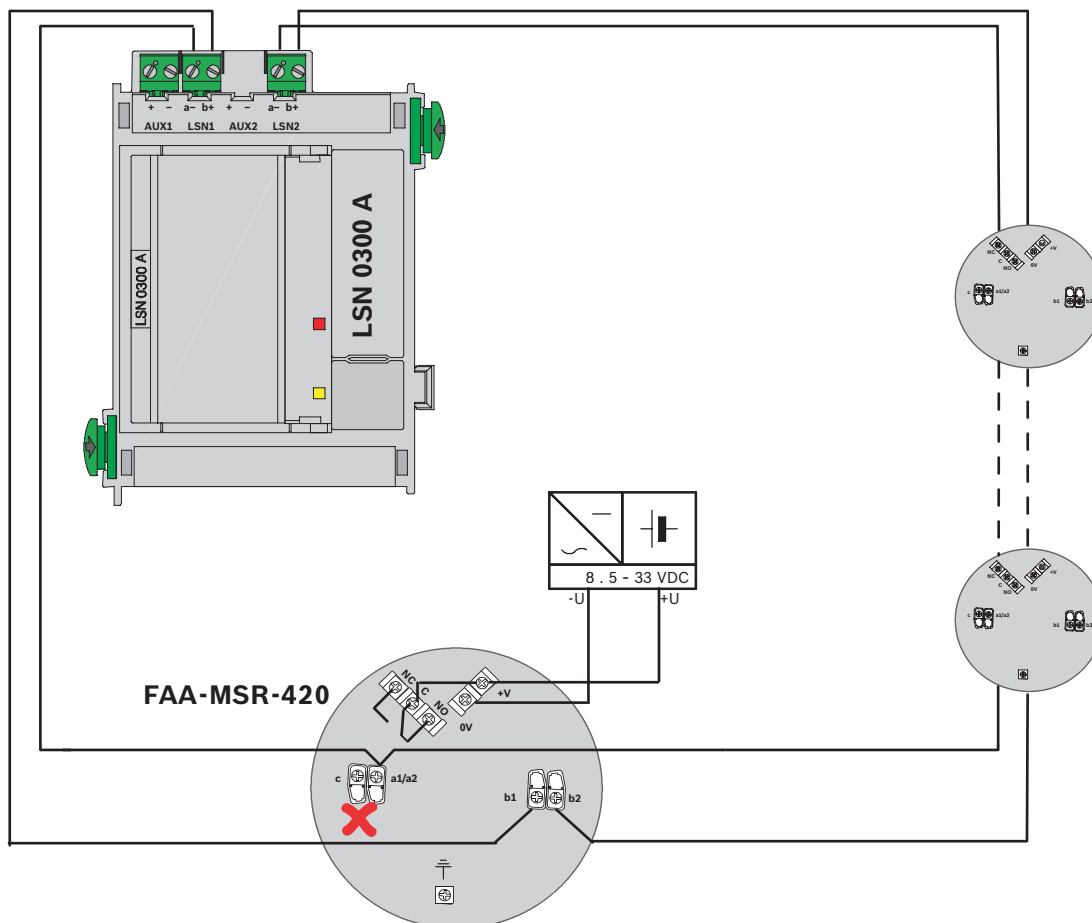




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

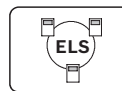


VdS 2489

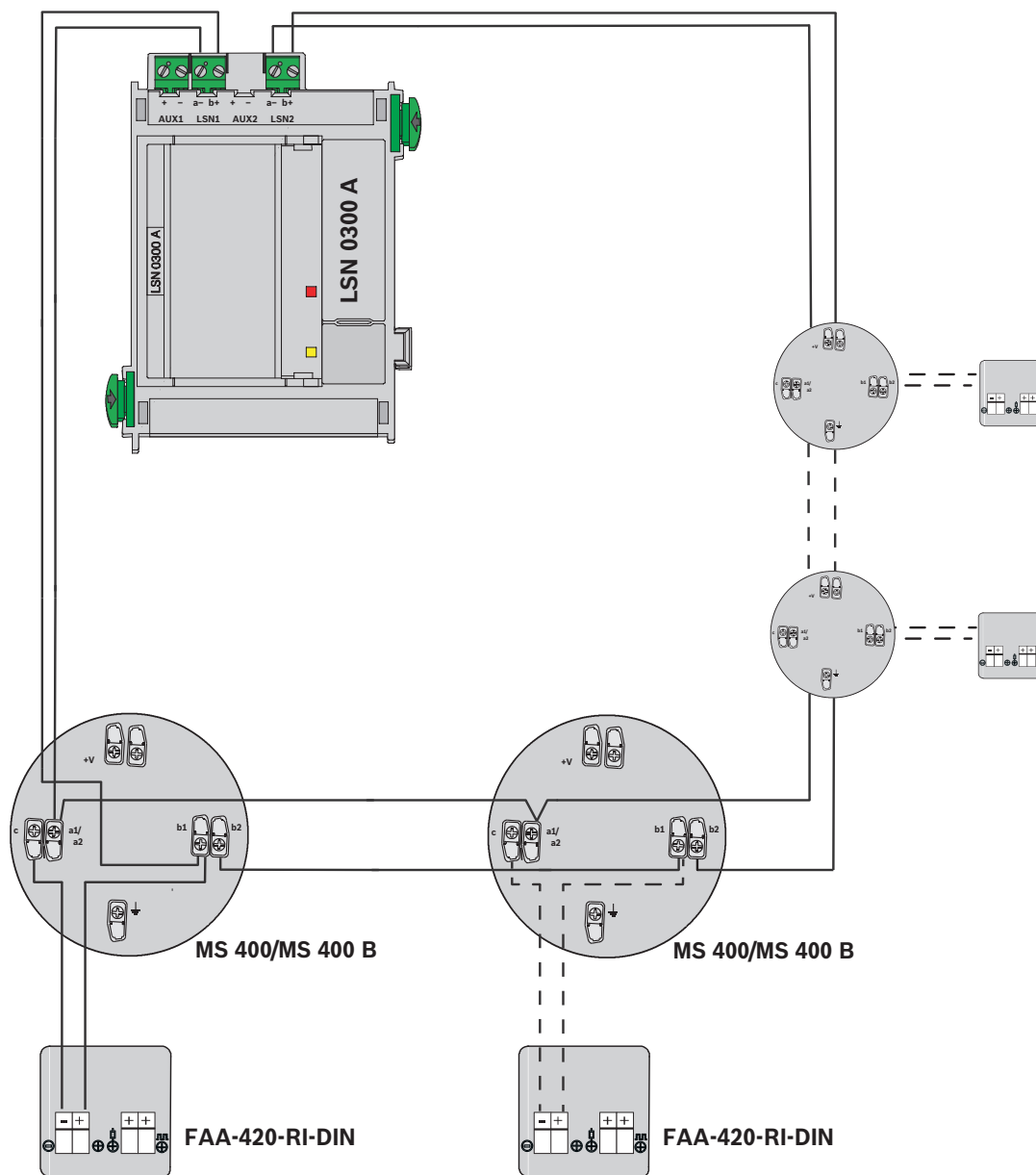


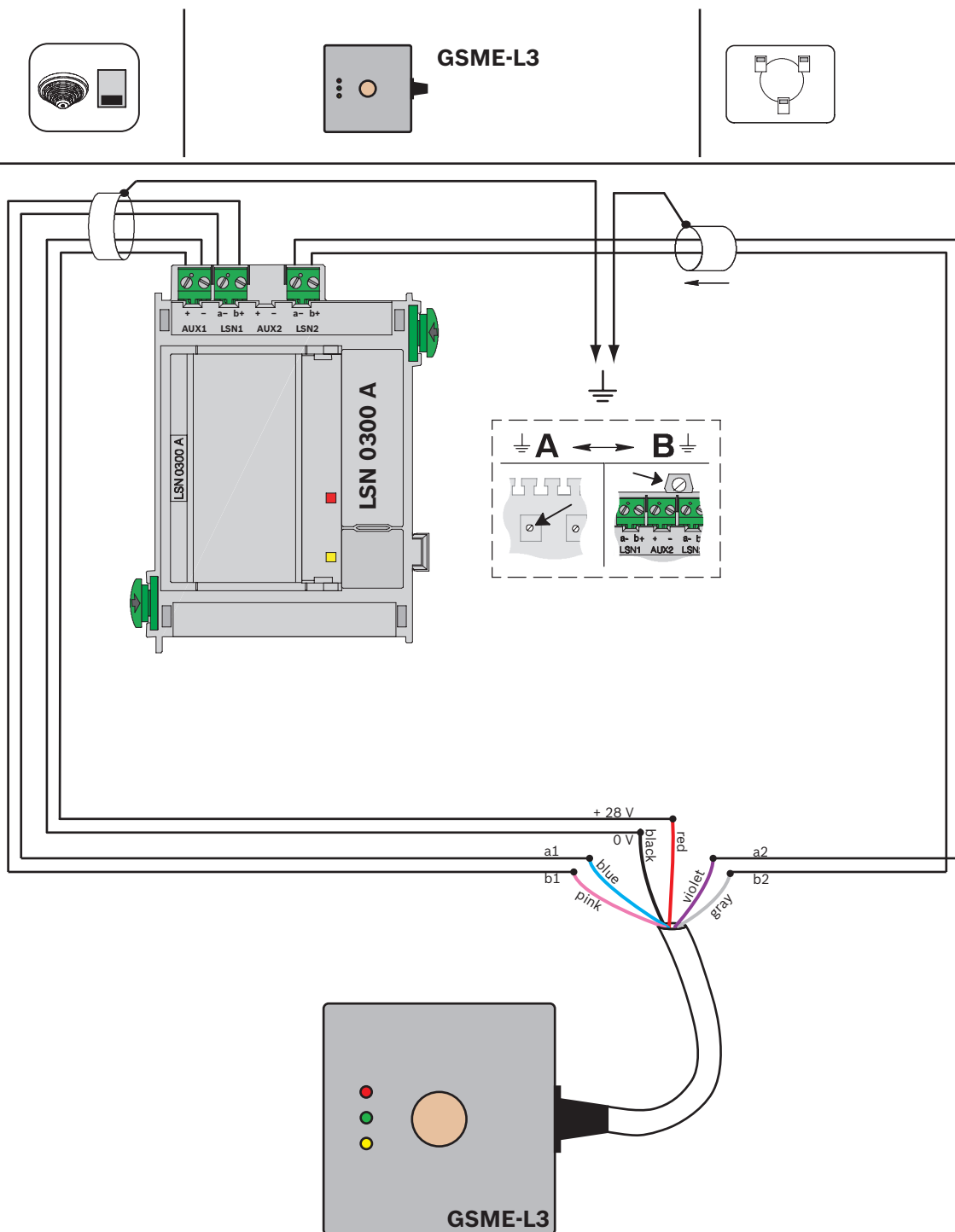


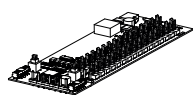
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



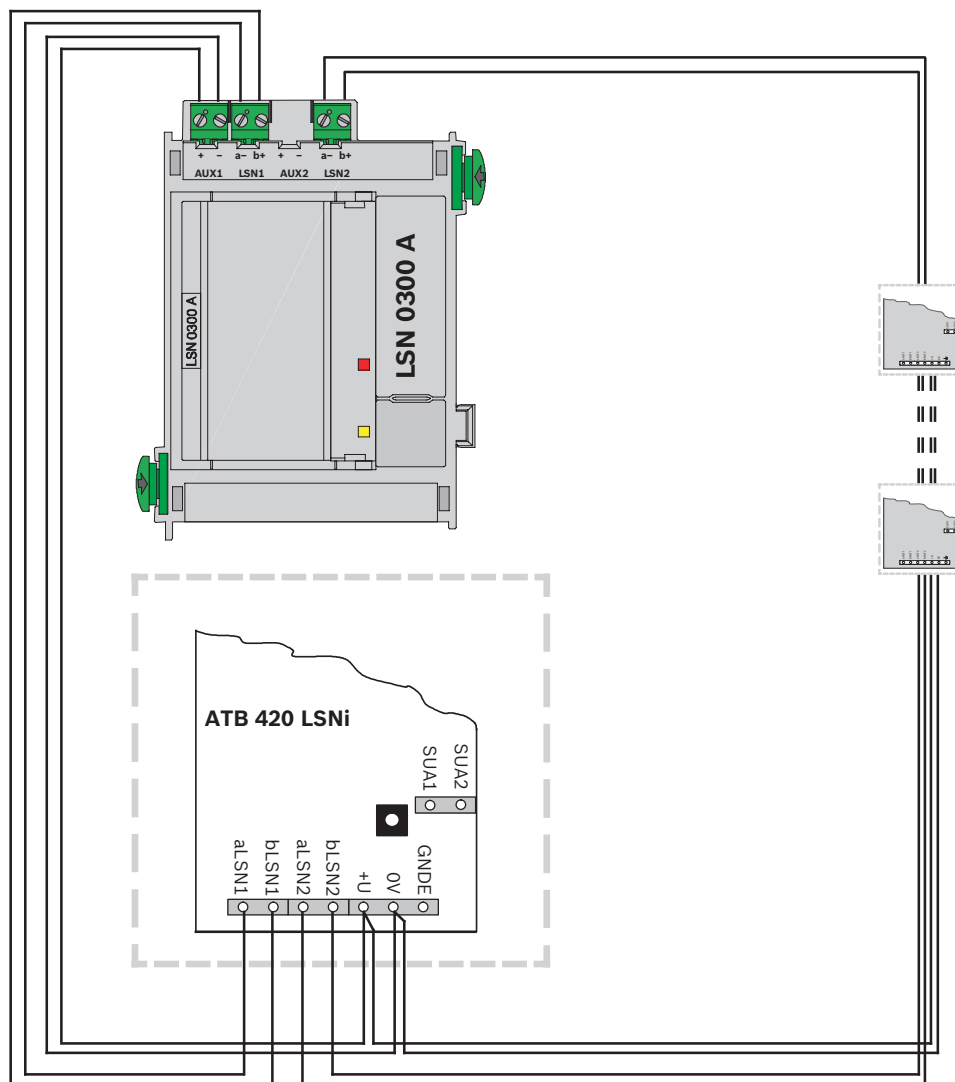
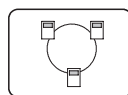
VdS 2489





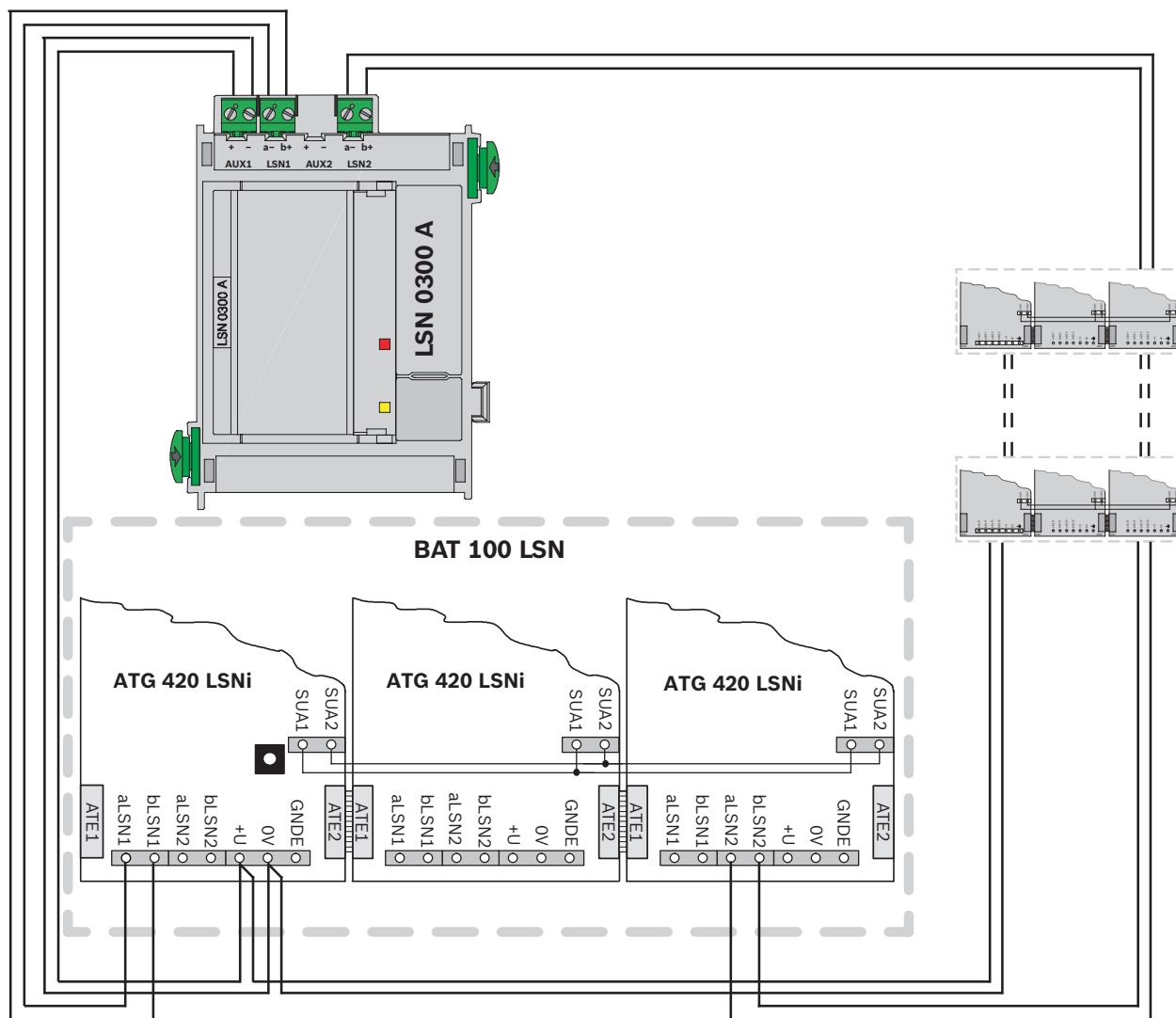
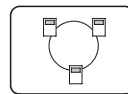


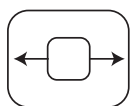
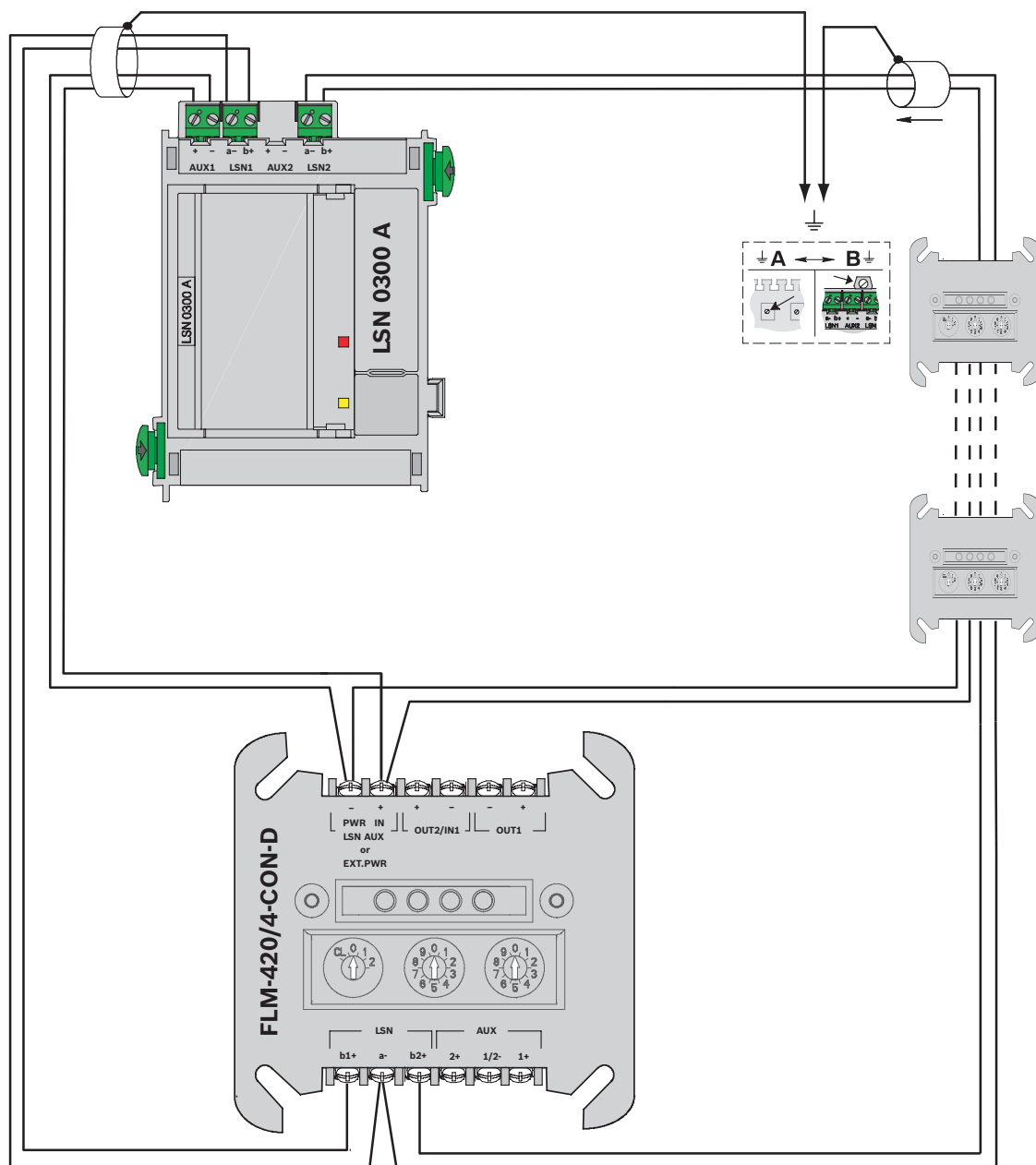
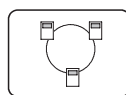
ATB 420 LSNi

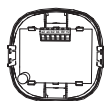
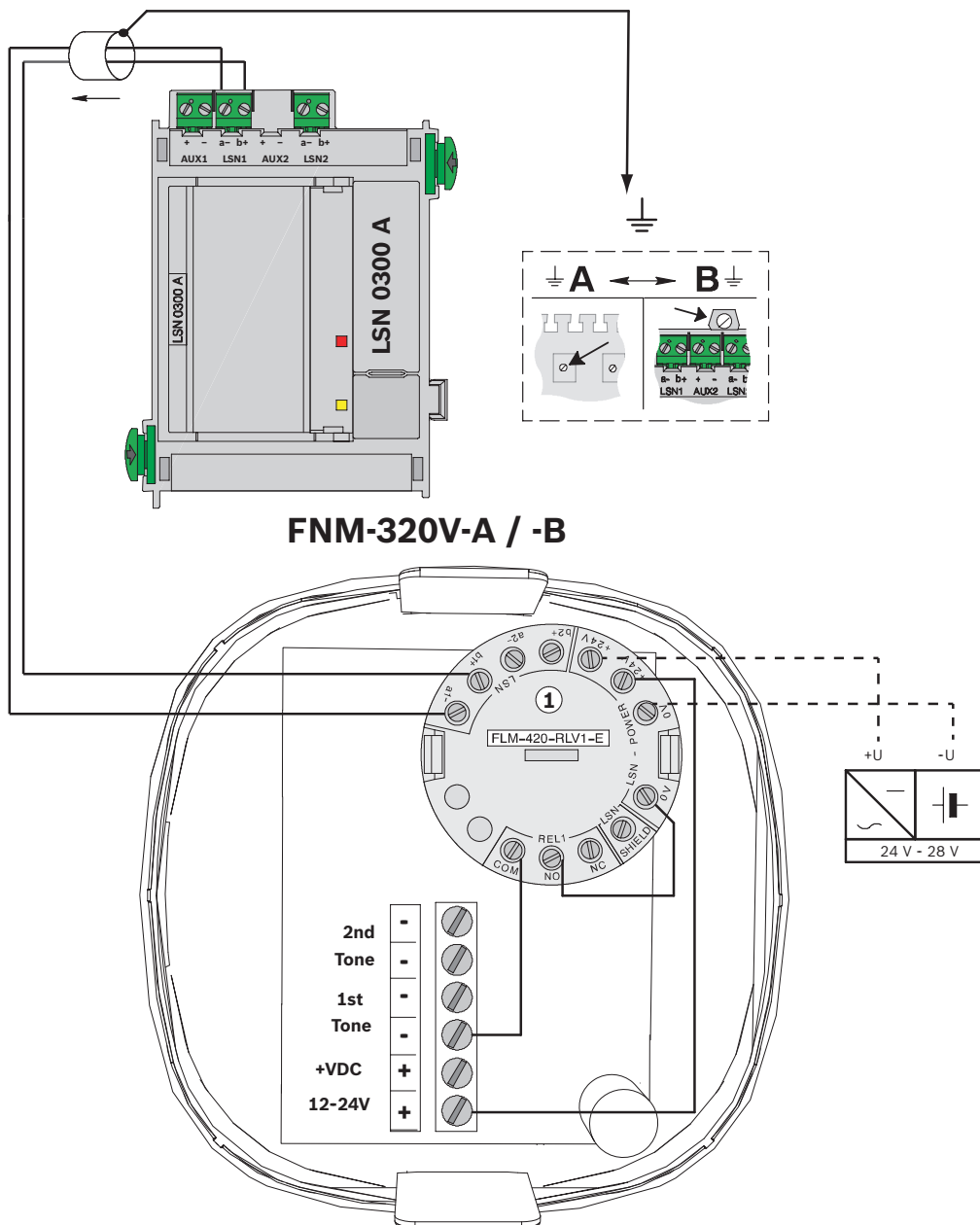
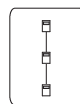




BAT 100 LSN
ATG 420 LSNi

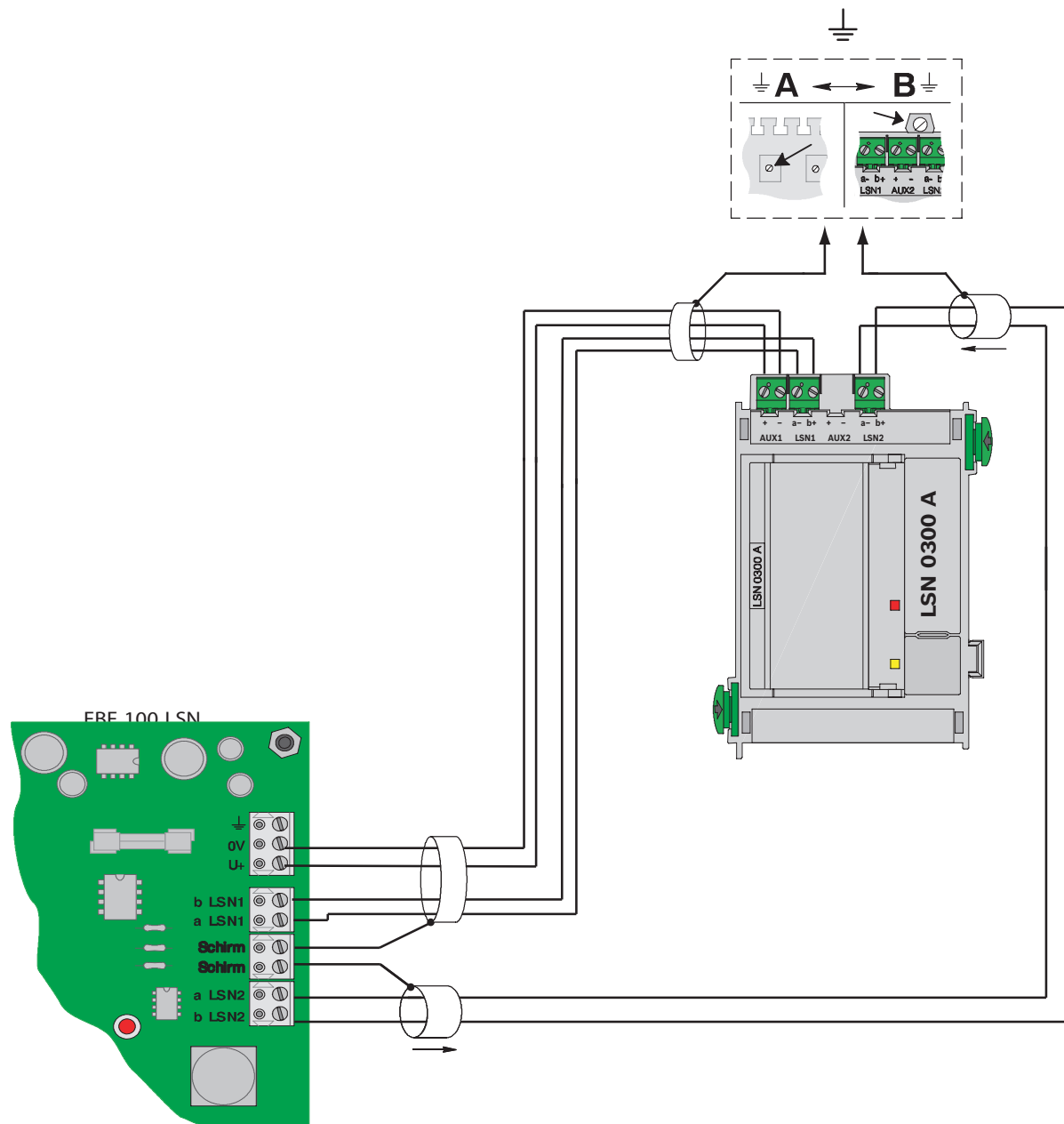
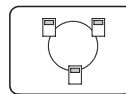


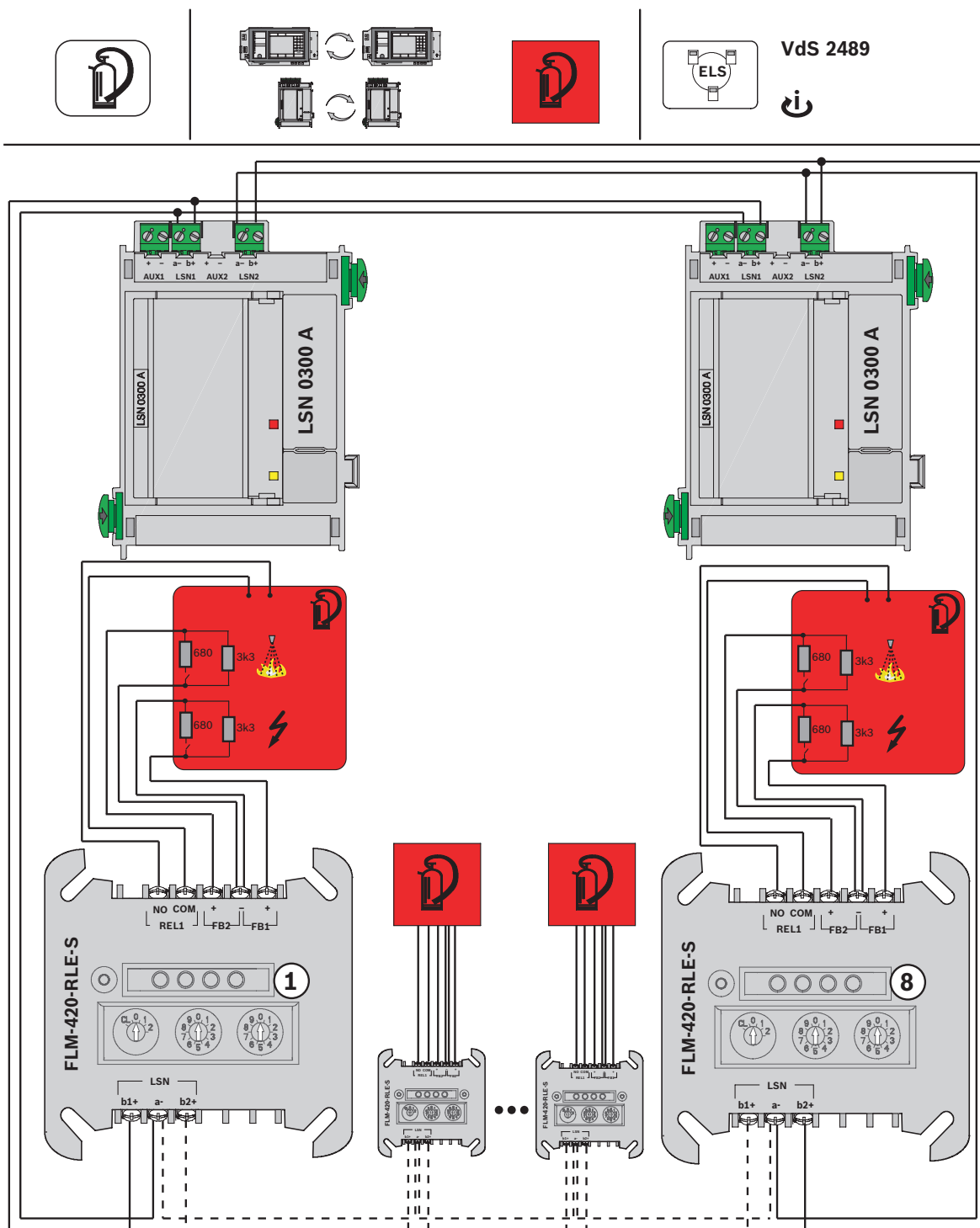
**FLM-420/
4-CON-D**

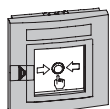
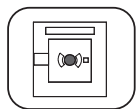
**FNM-320V-A / -B**



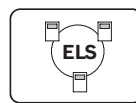
FBF 100 LSN



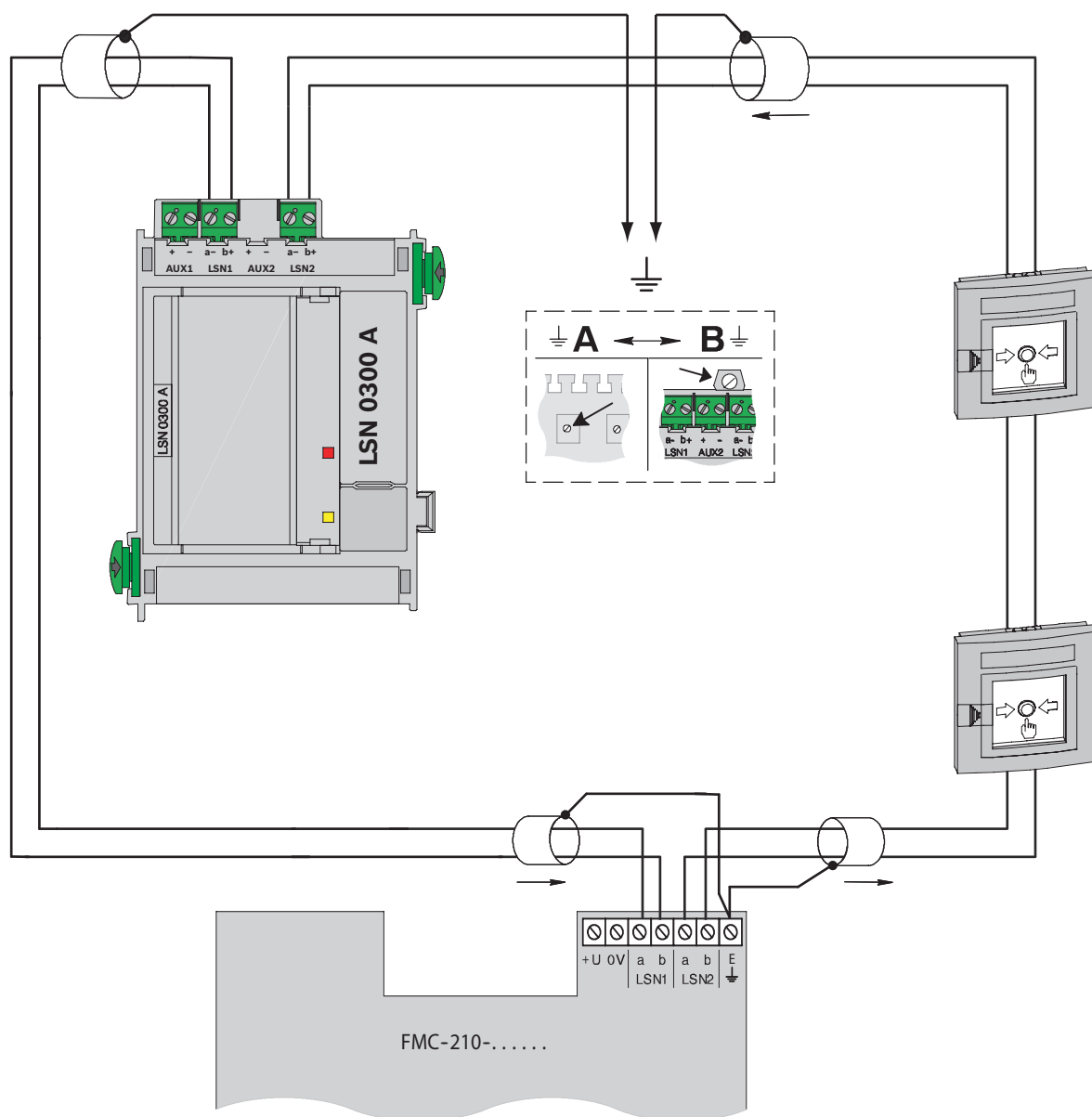


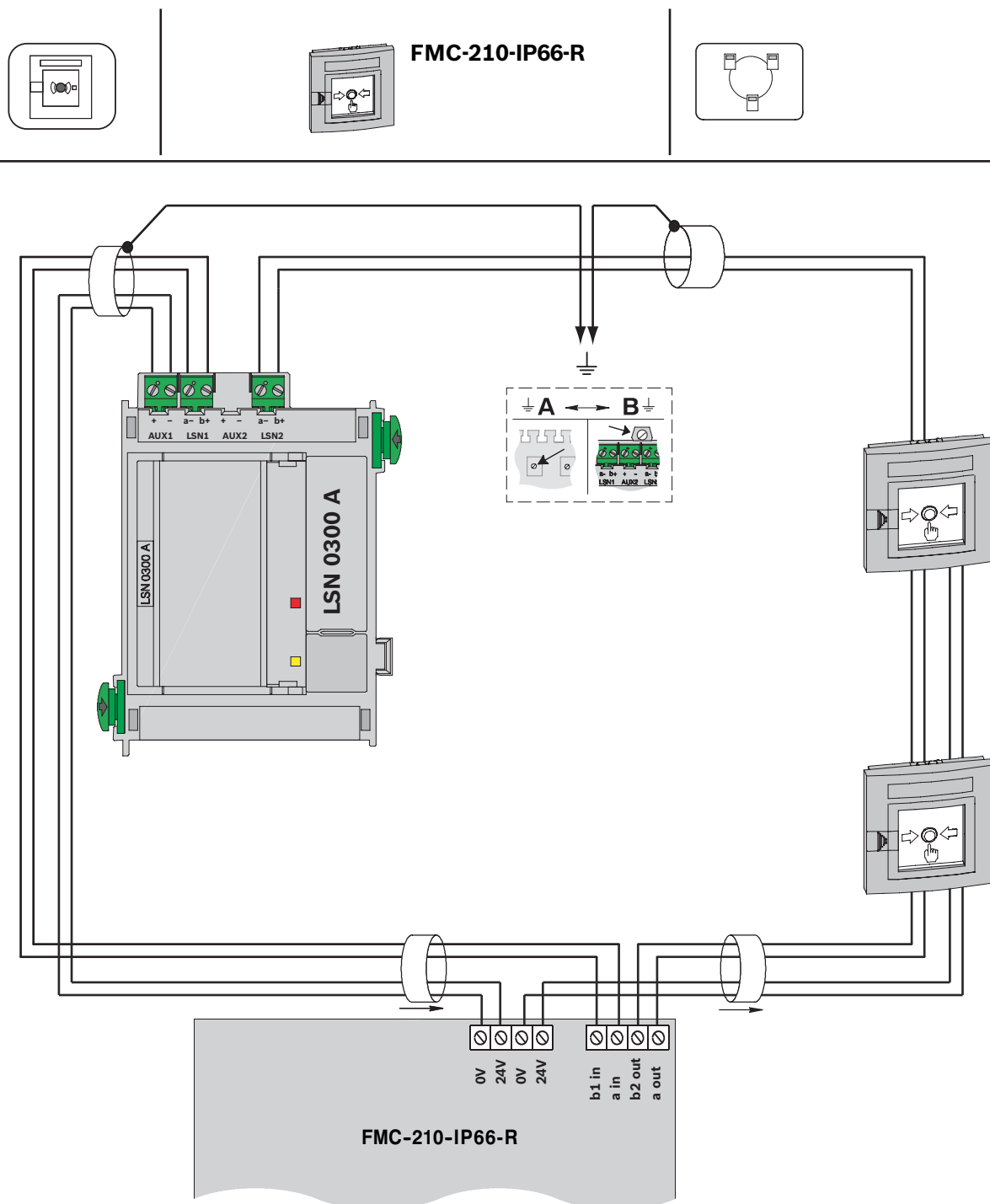


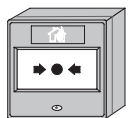
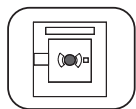
FMC-210-...



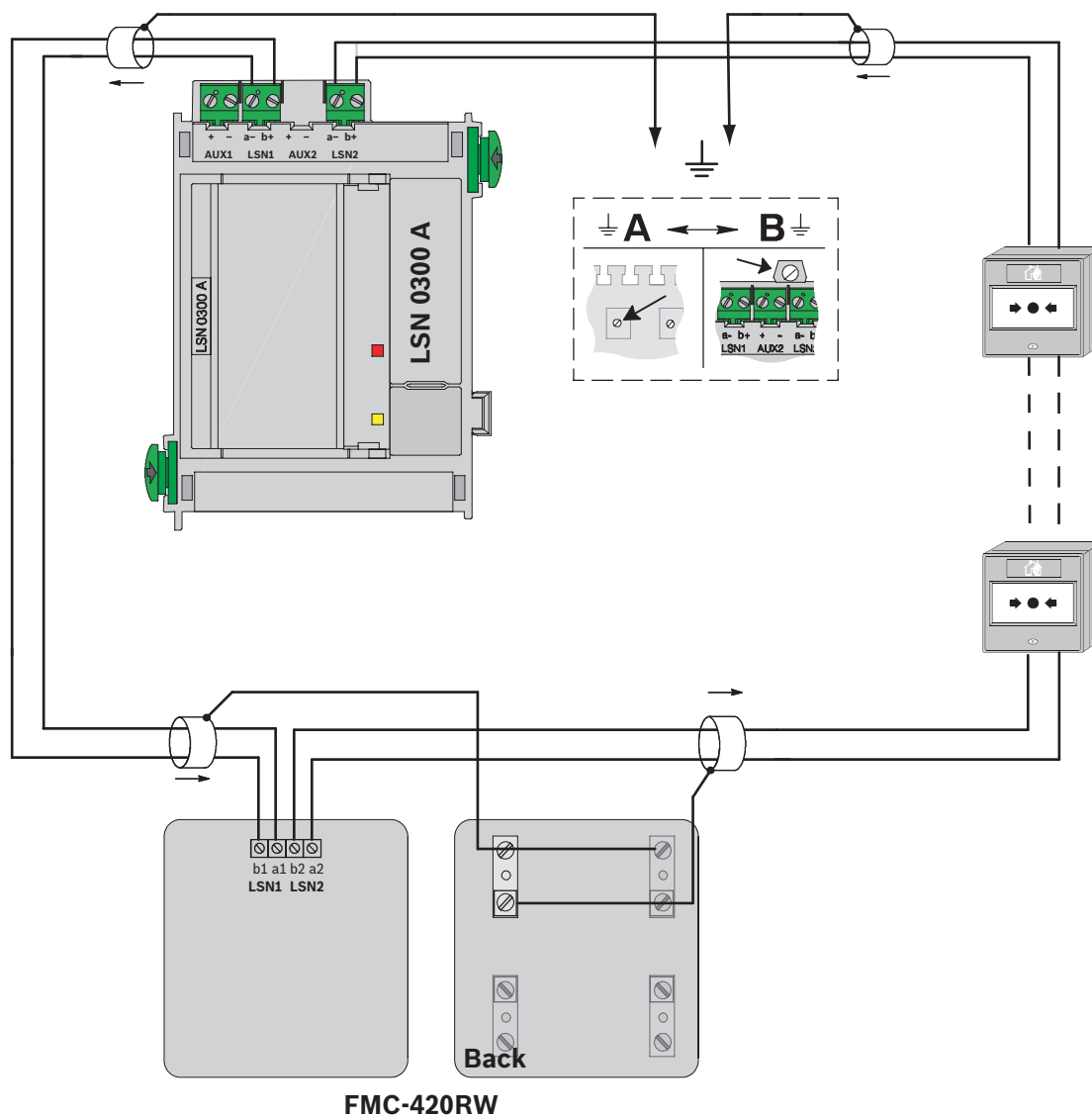
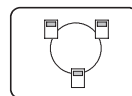
VdS 2489

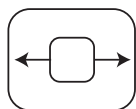




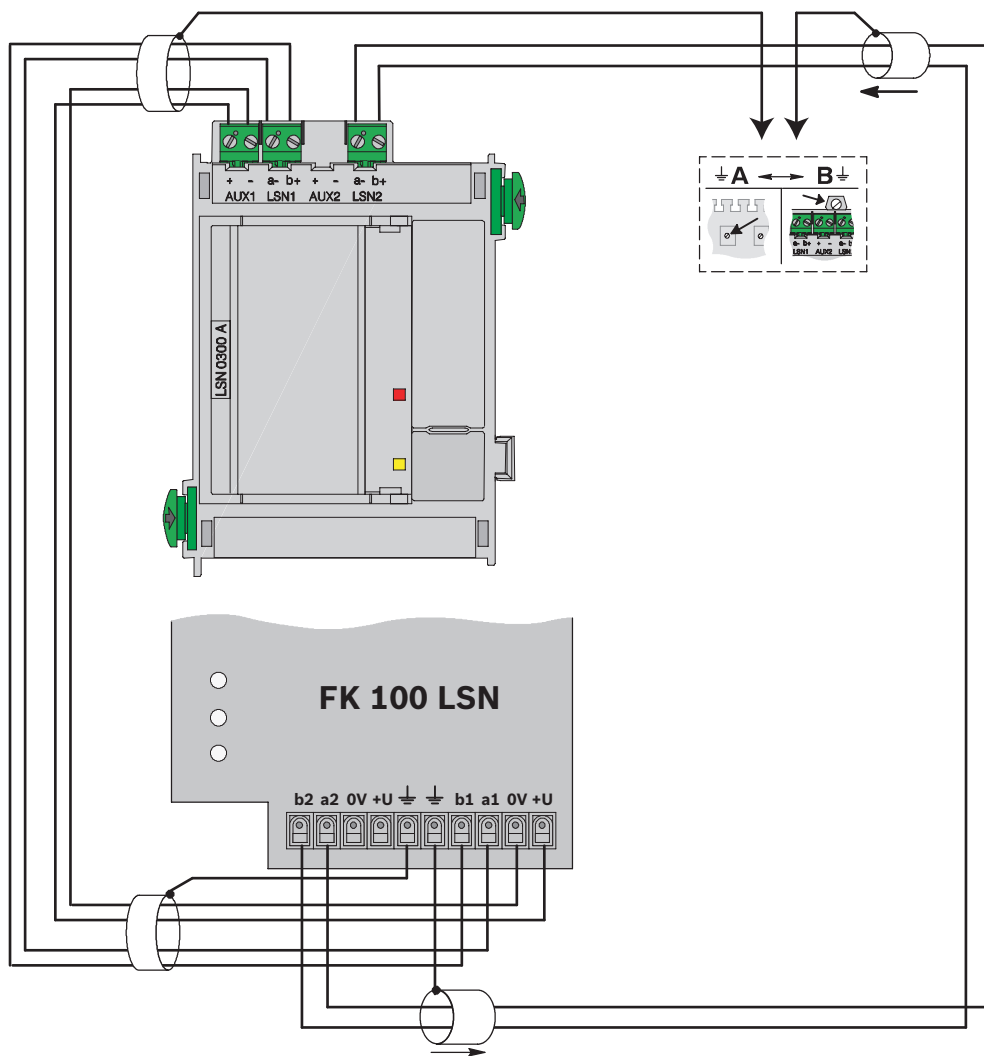
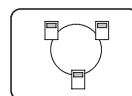


FMC-420RW-HSGRD
FMC-420RW-HSRRD
FMC-420RW-GFGRD
FMC-420RW-GFRRD
FMC-420RW-GSGRD
FMC-420RW-GSRRD

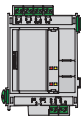
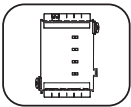




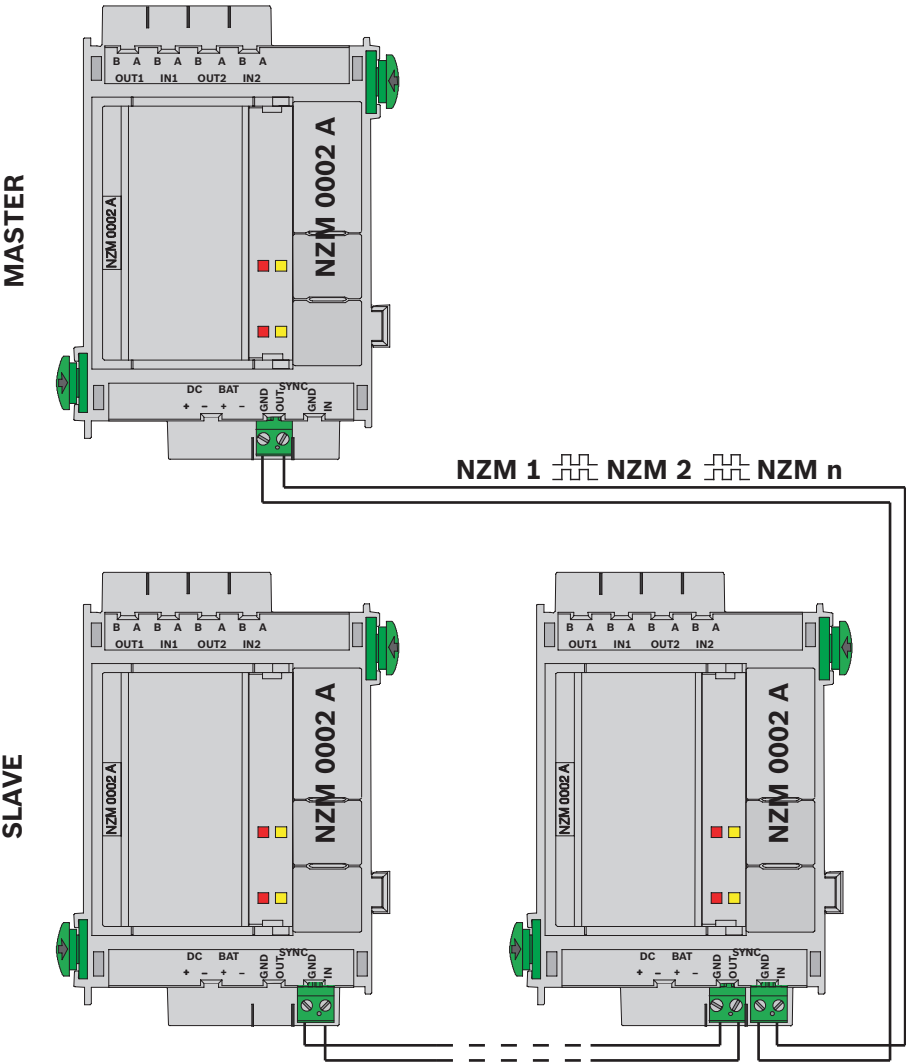
FK 100 LSN



3.3.5 NZM 0002 A

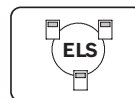


NZM 0002 A

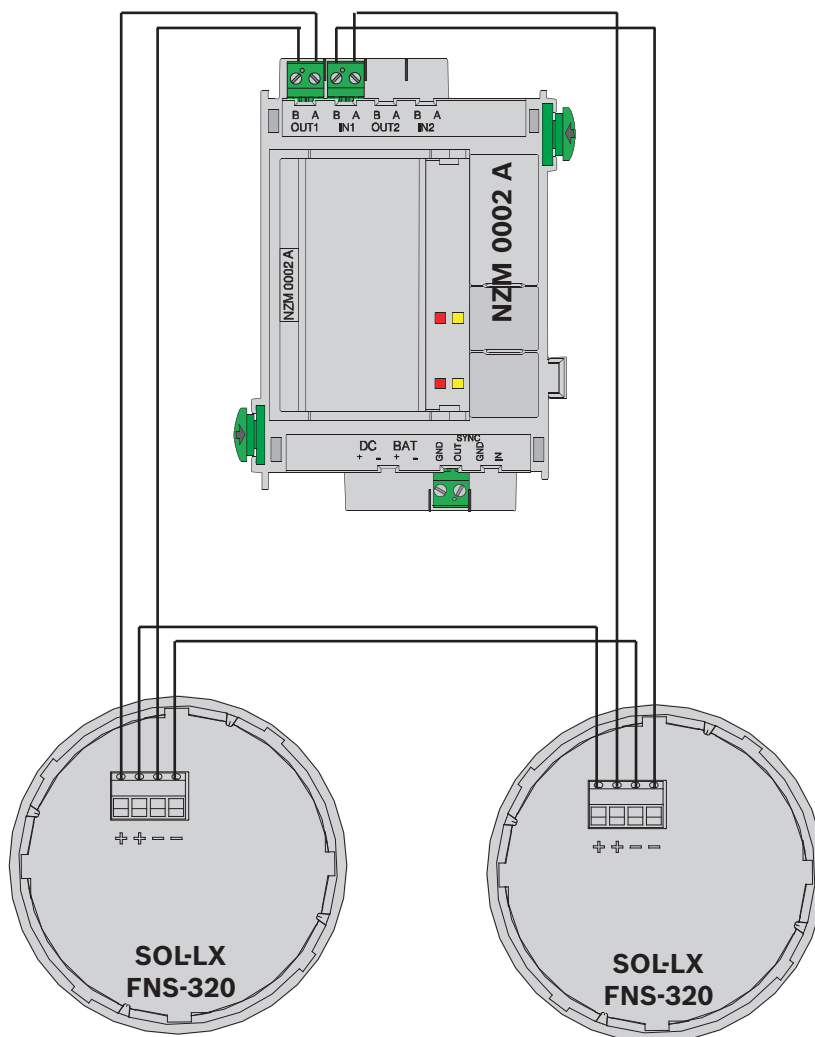




**SOL-LX
FNS-320**

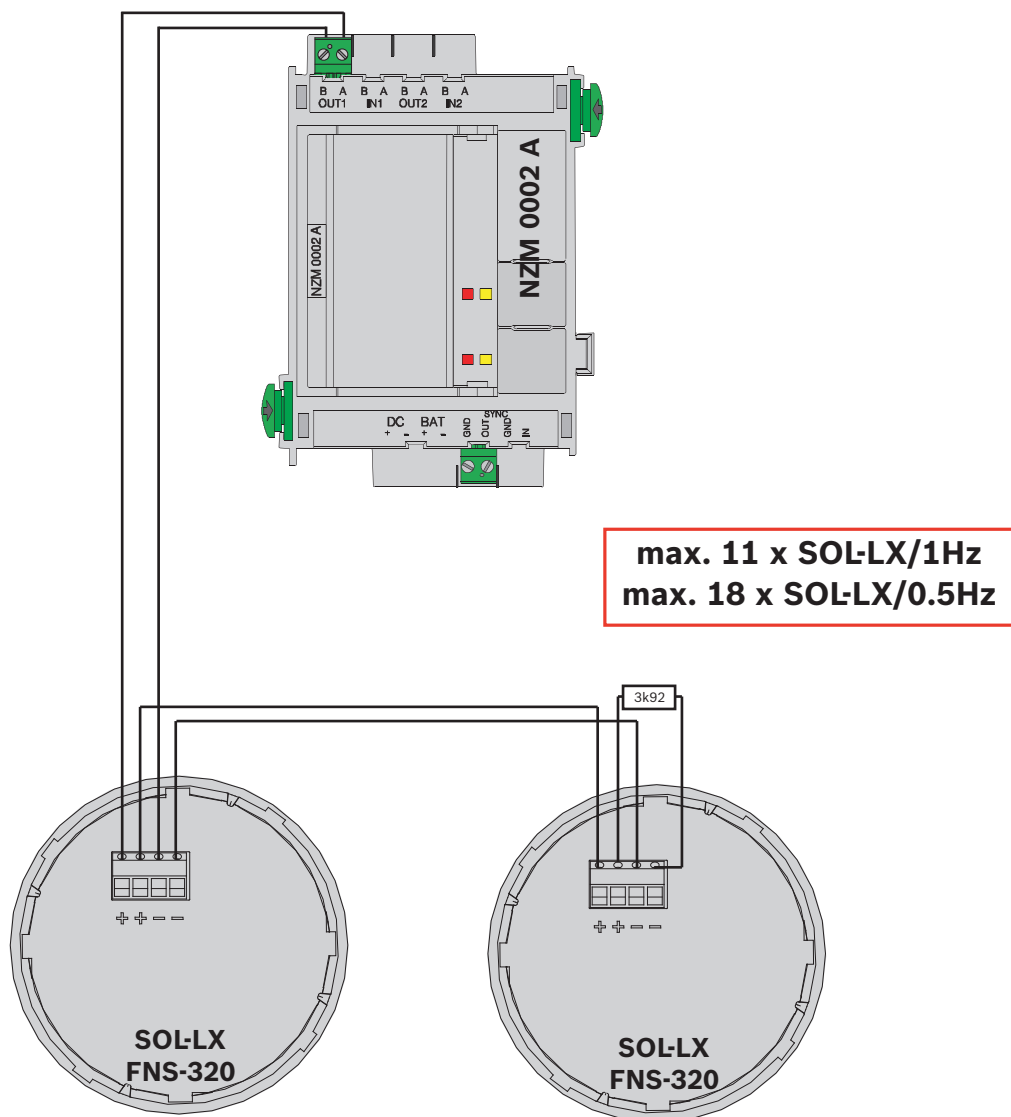
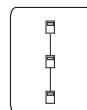


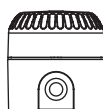
VdS 2489



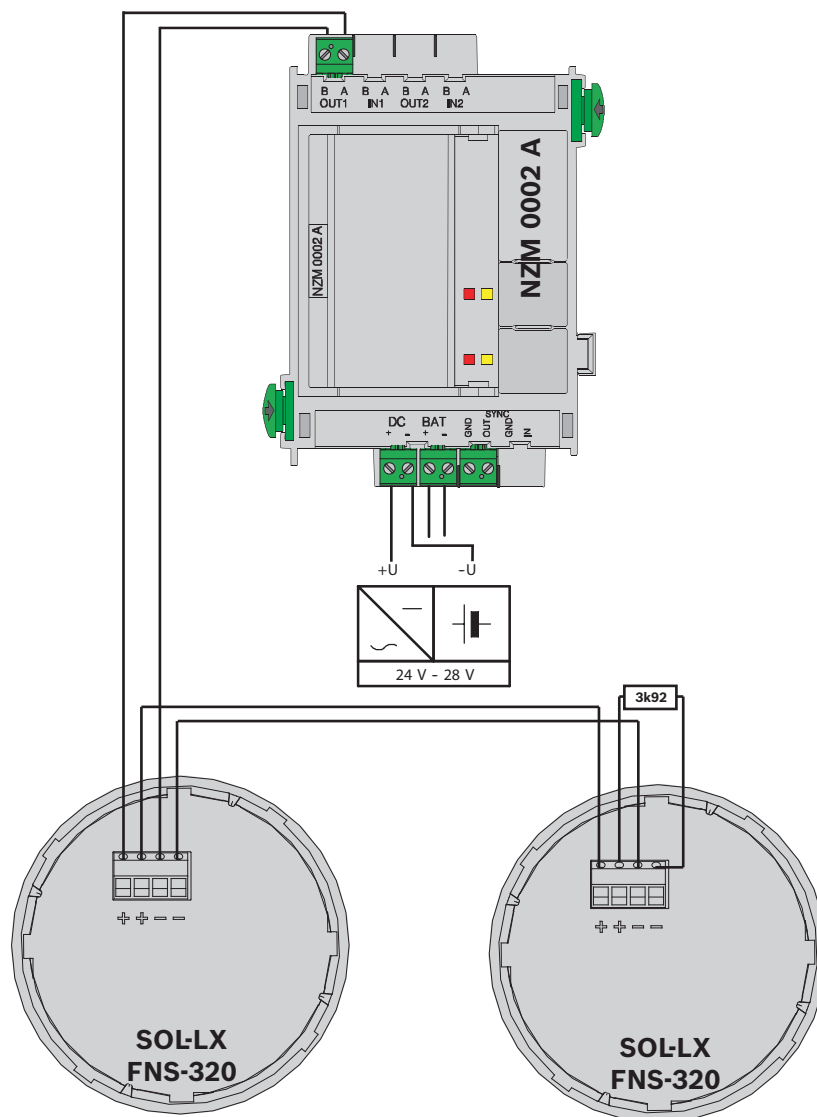
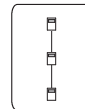


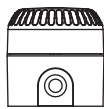
**SOL-LX
FNS-320**



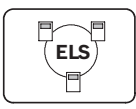


**SOL-LX
FNS-320**

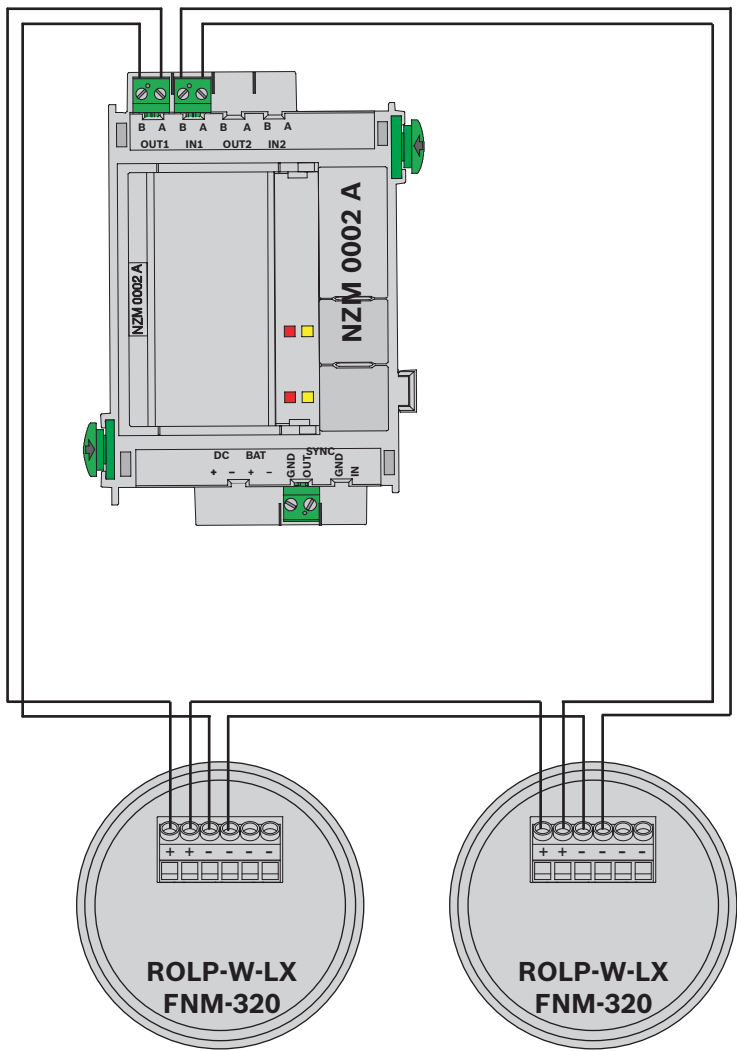




**ROLP-W-LX
FNM-320**

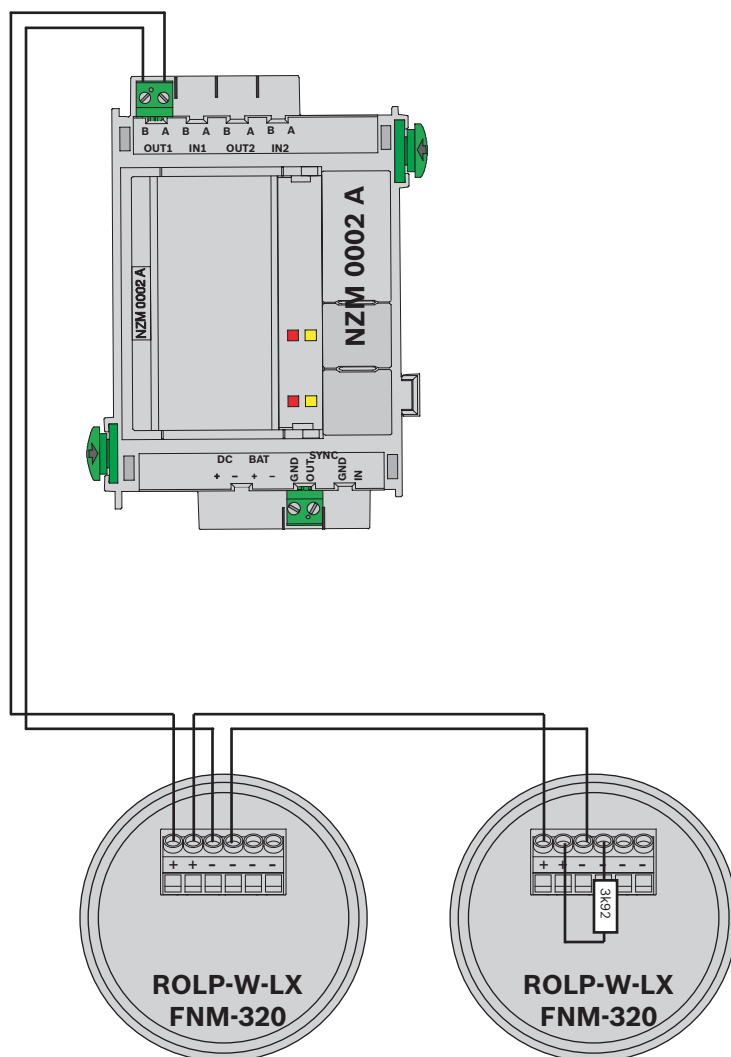
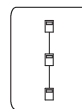


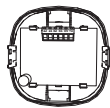
VdS 2489



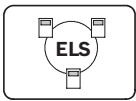


**ROLP-W-LX
FNM-320**

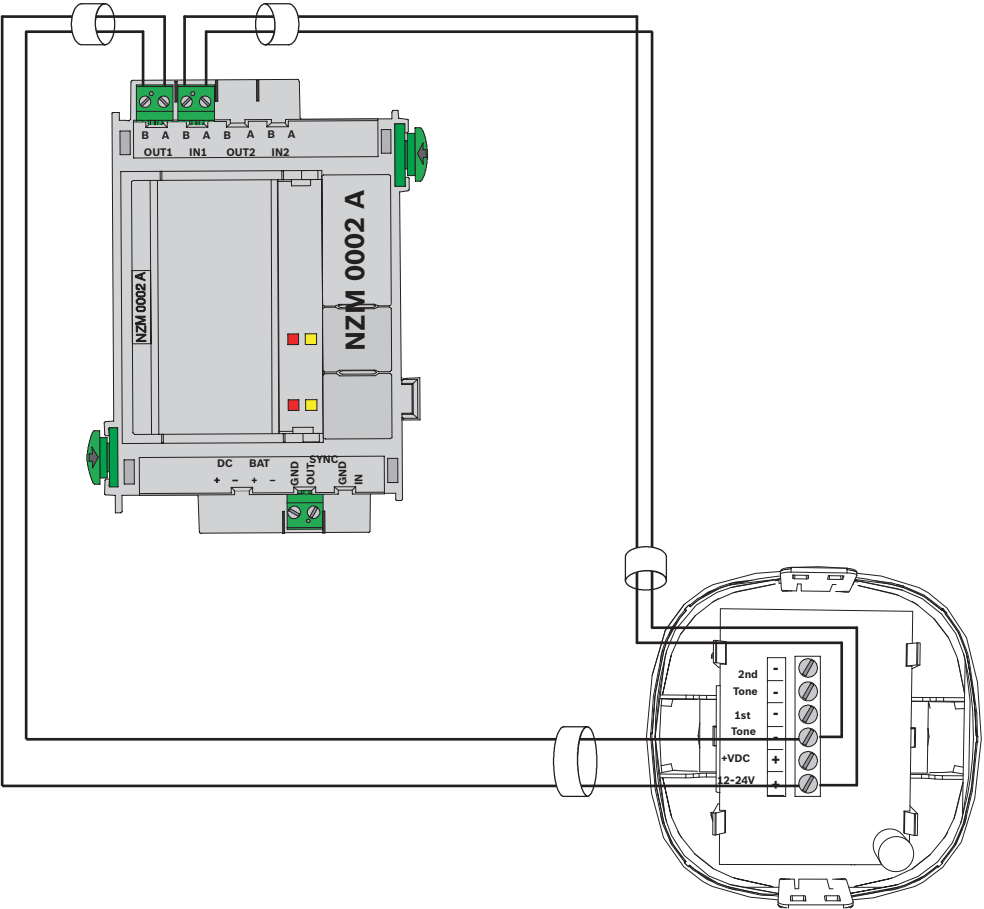


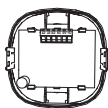
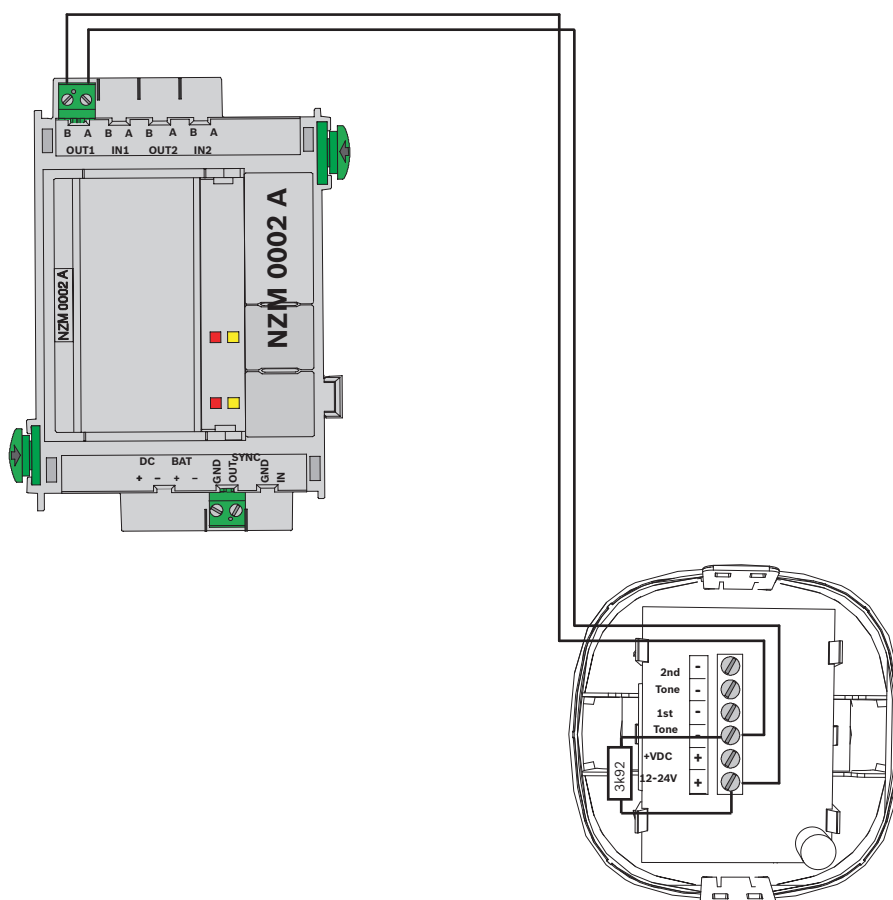
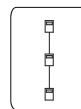


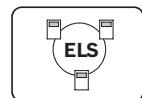
FNM-320V-A / -B



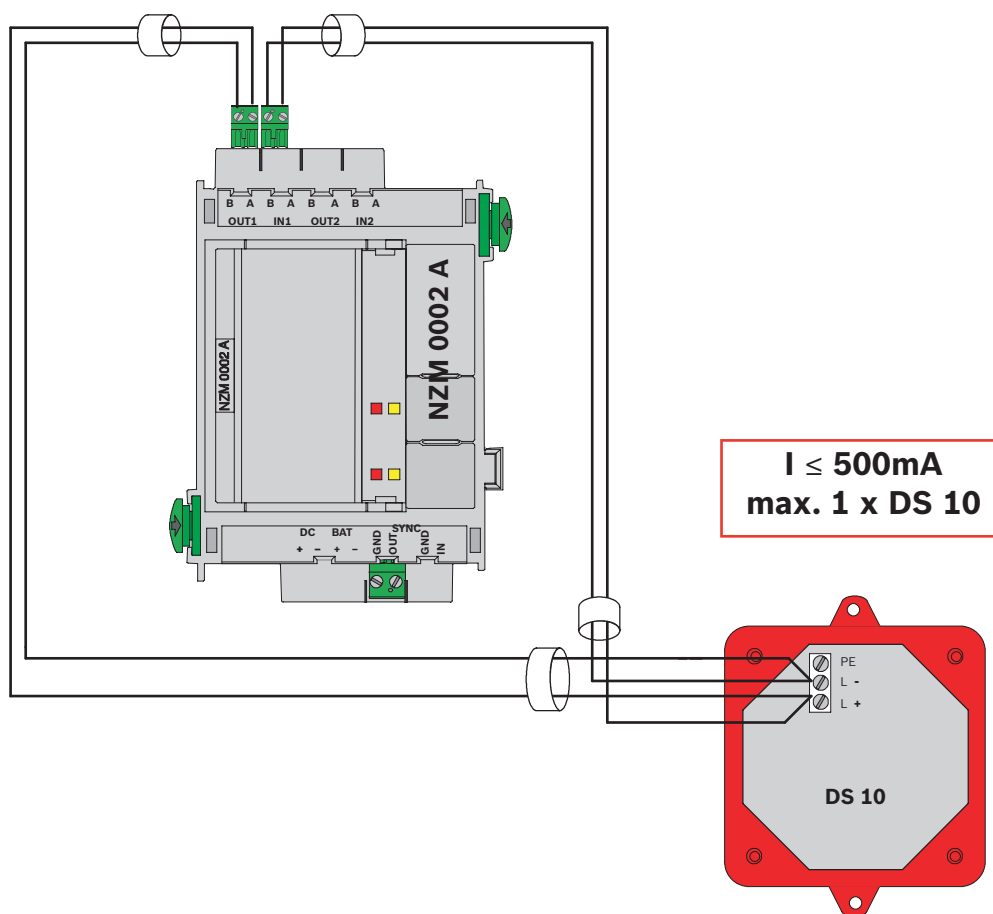
VdS 2489

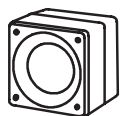


**FNM-320V-A / -B**

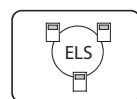


VdS 2489

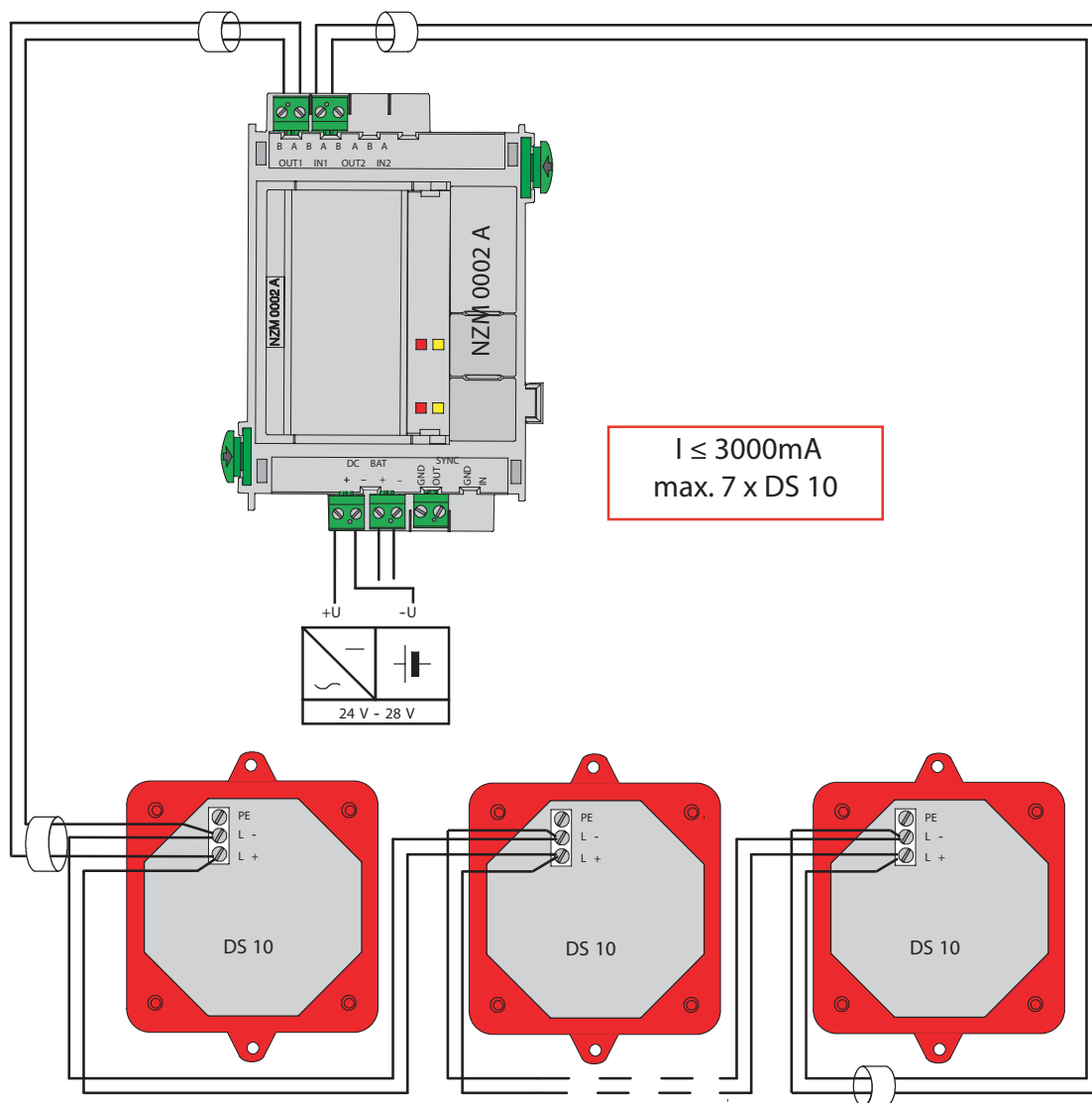


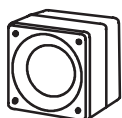
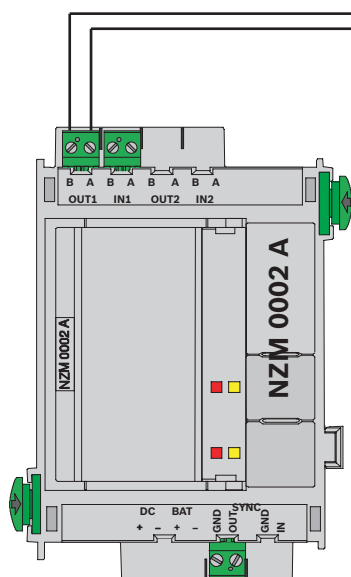
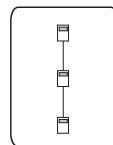


DS 10

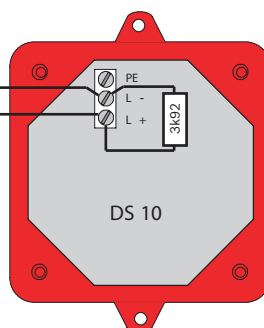


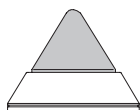
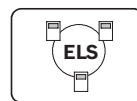
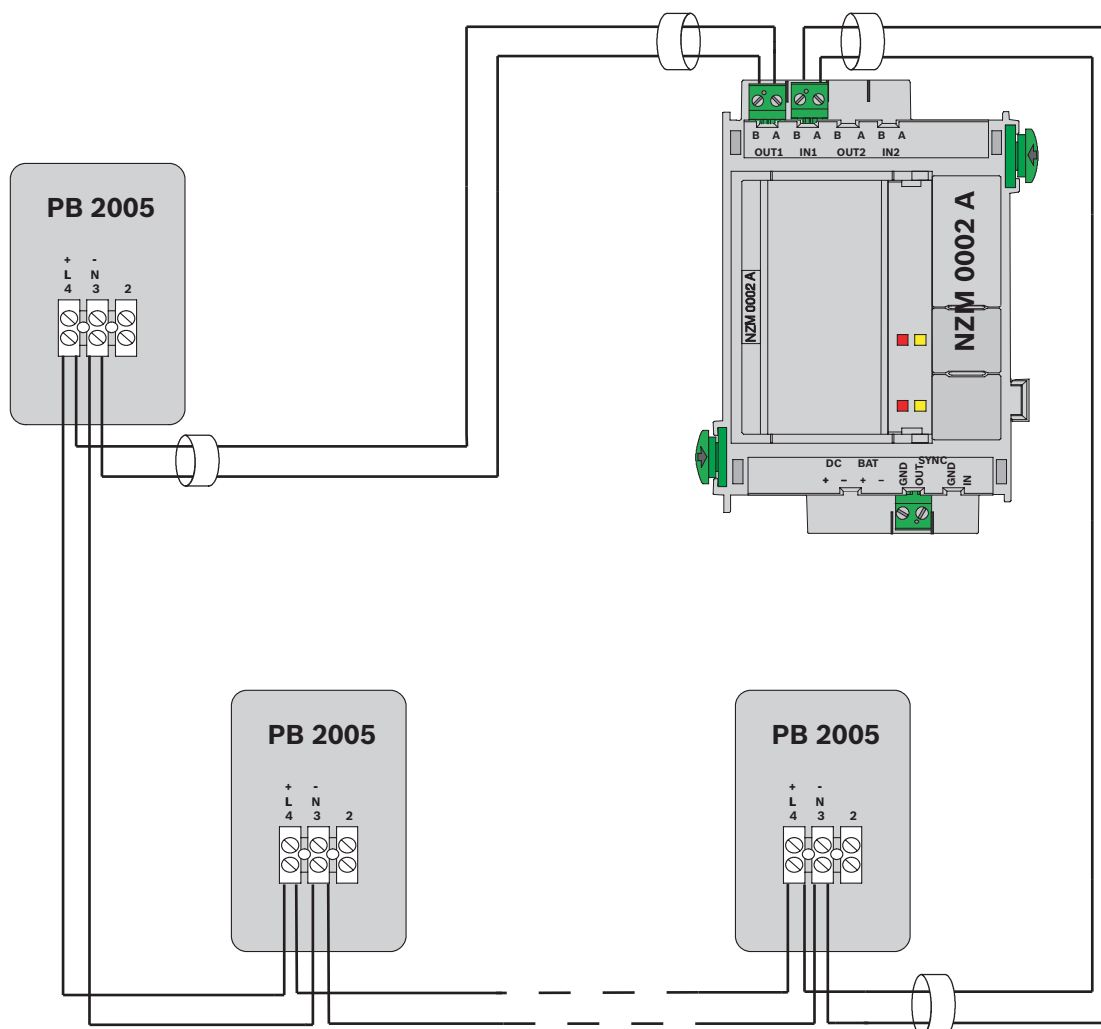
VdS 2489



**DS 10**

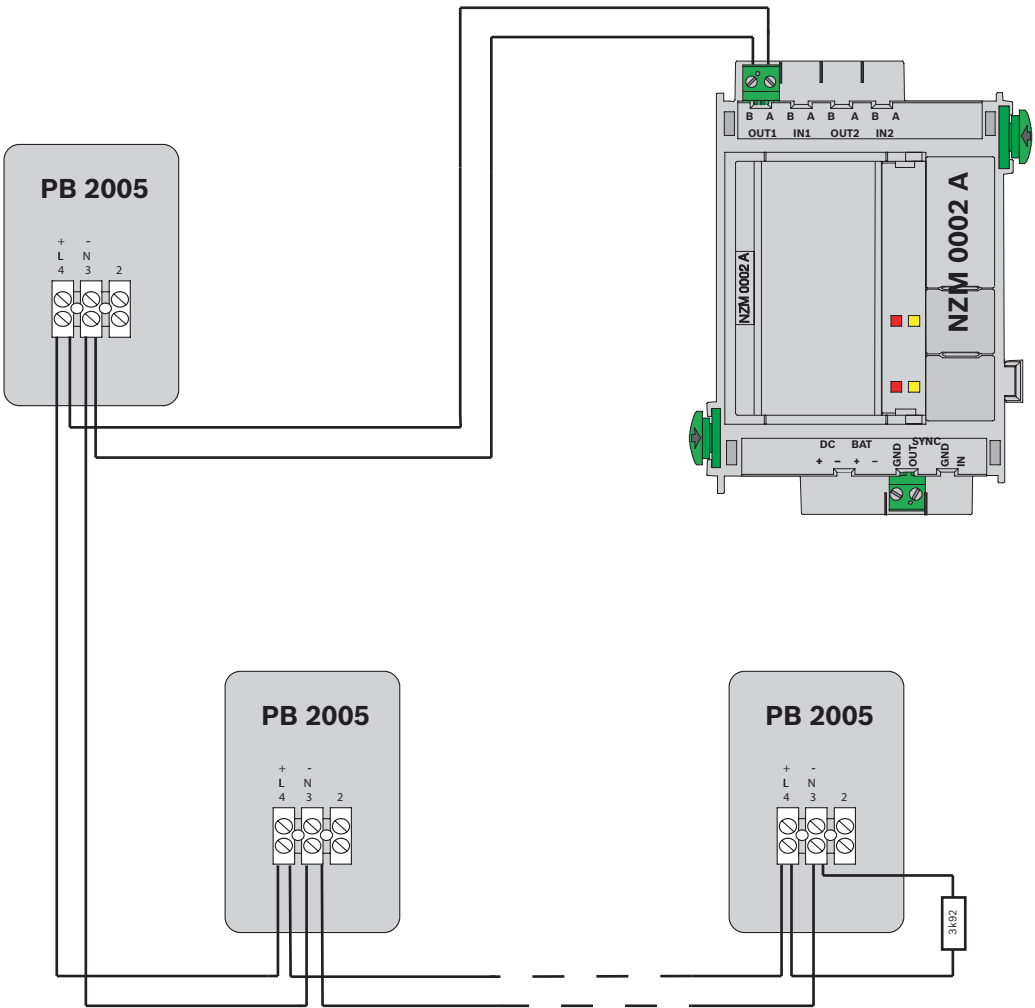
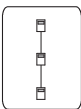
$I \leq 500\text{mA}$
max. 1 x DS 10

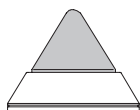
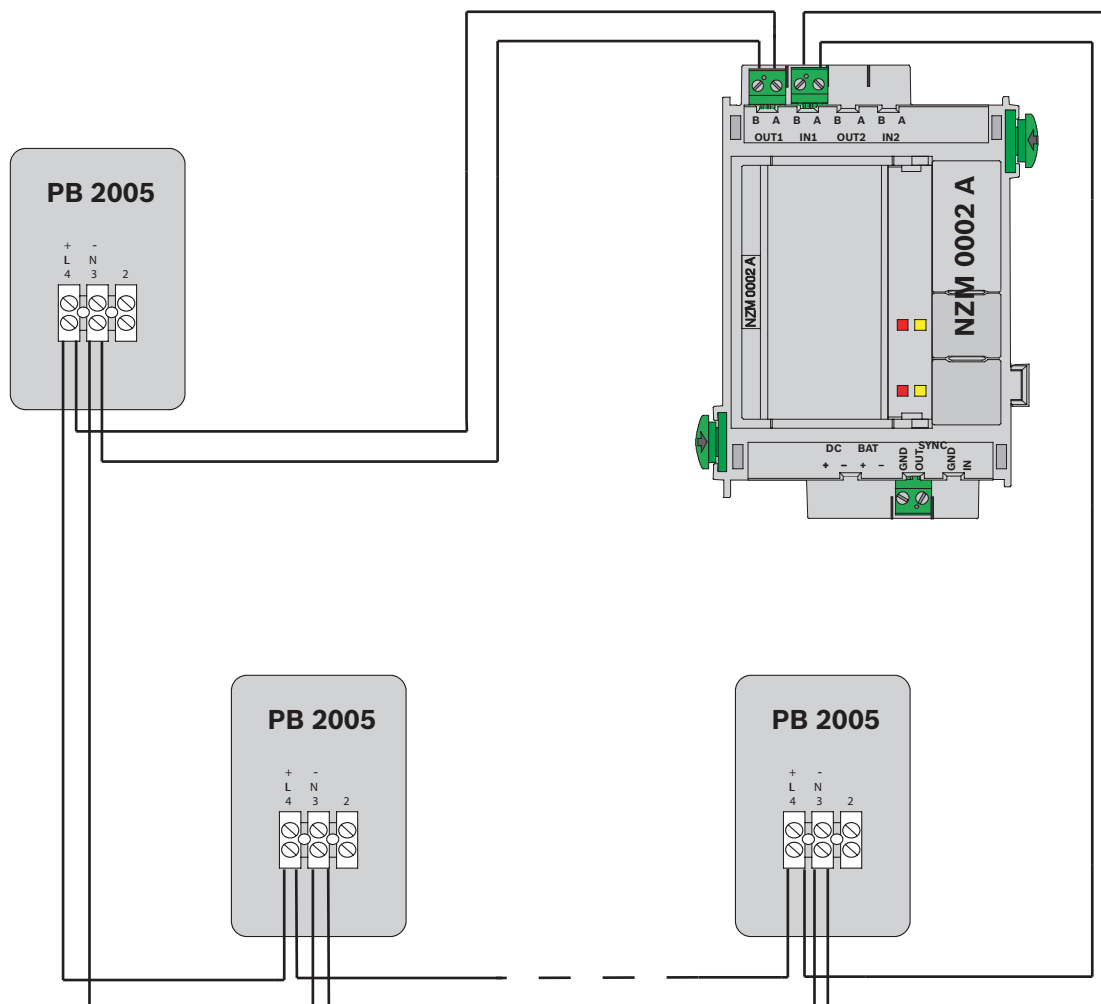
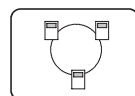


**PB 2005****VdS 2489**



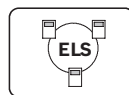
PB 2005



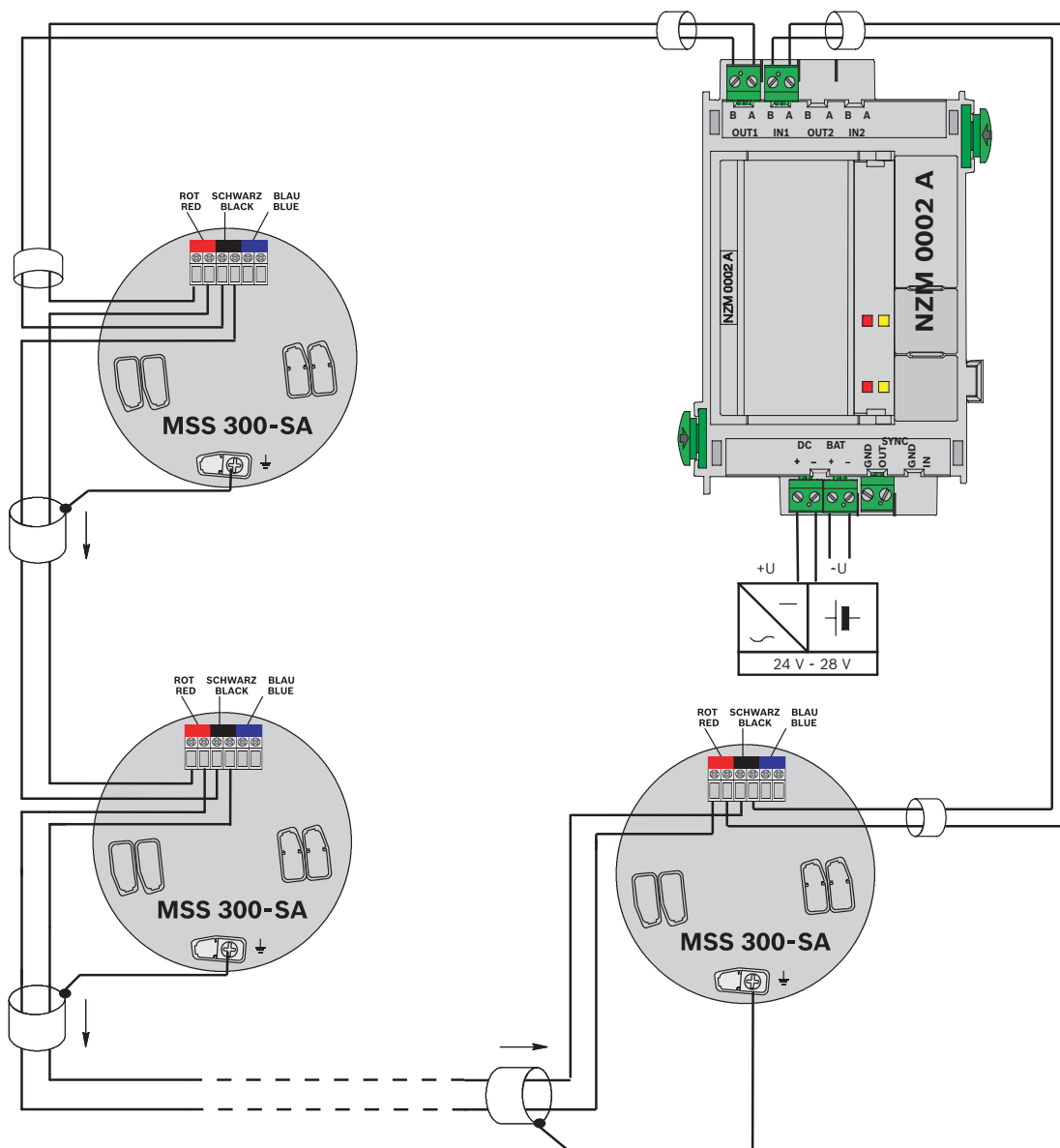
**PB 2005**

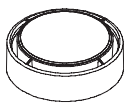


MSS 300-SA

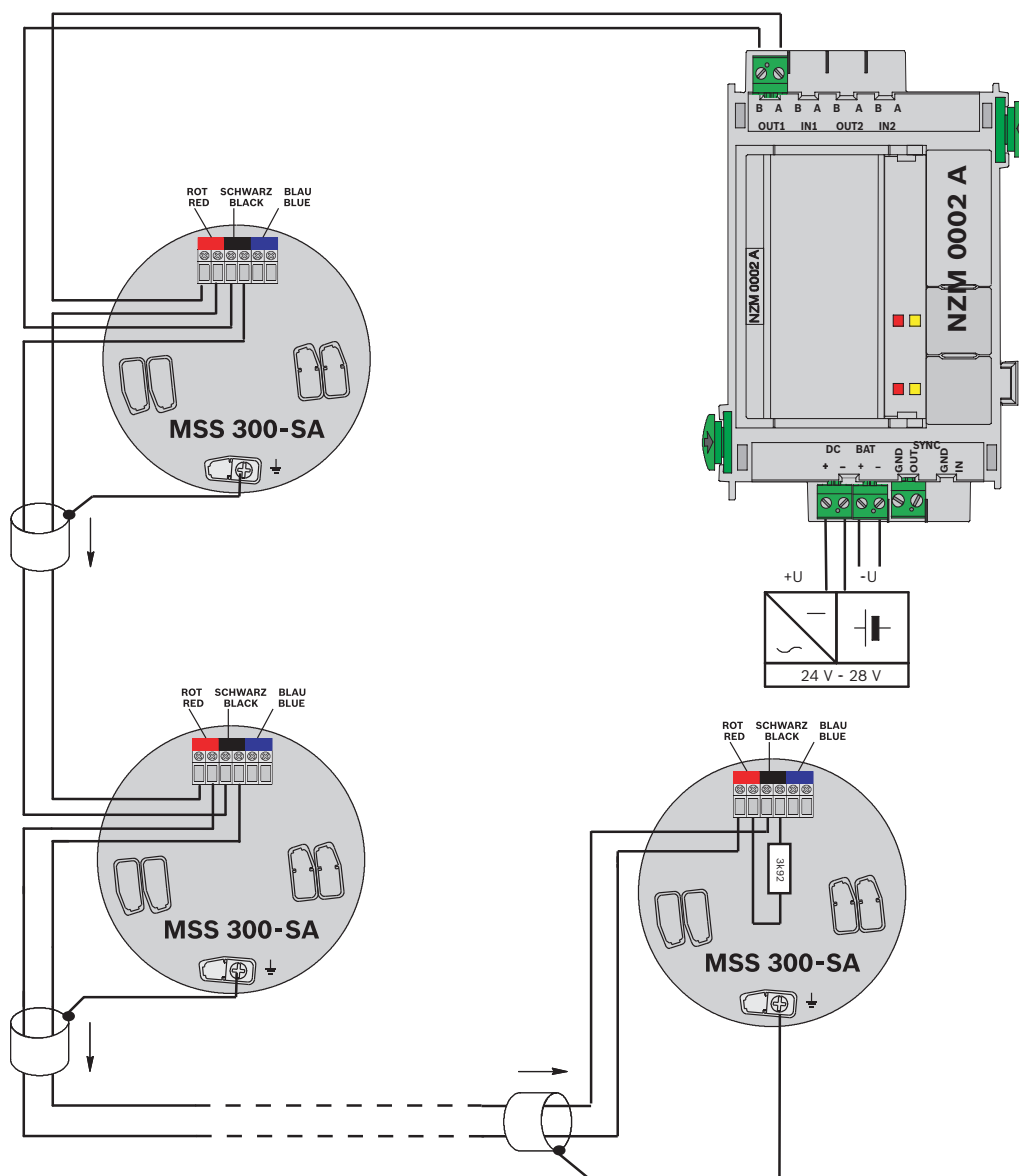
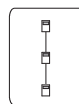


VdS 2489





MSS 300-SA



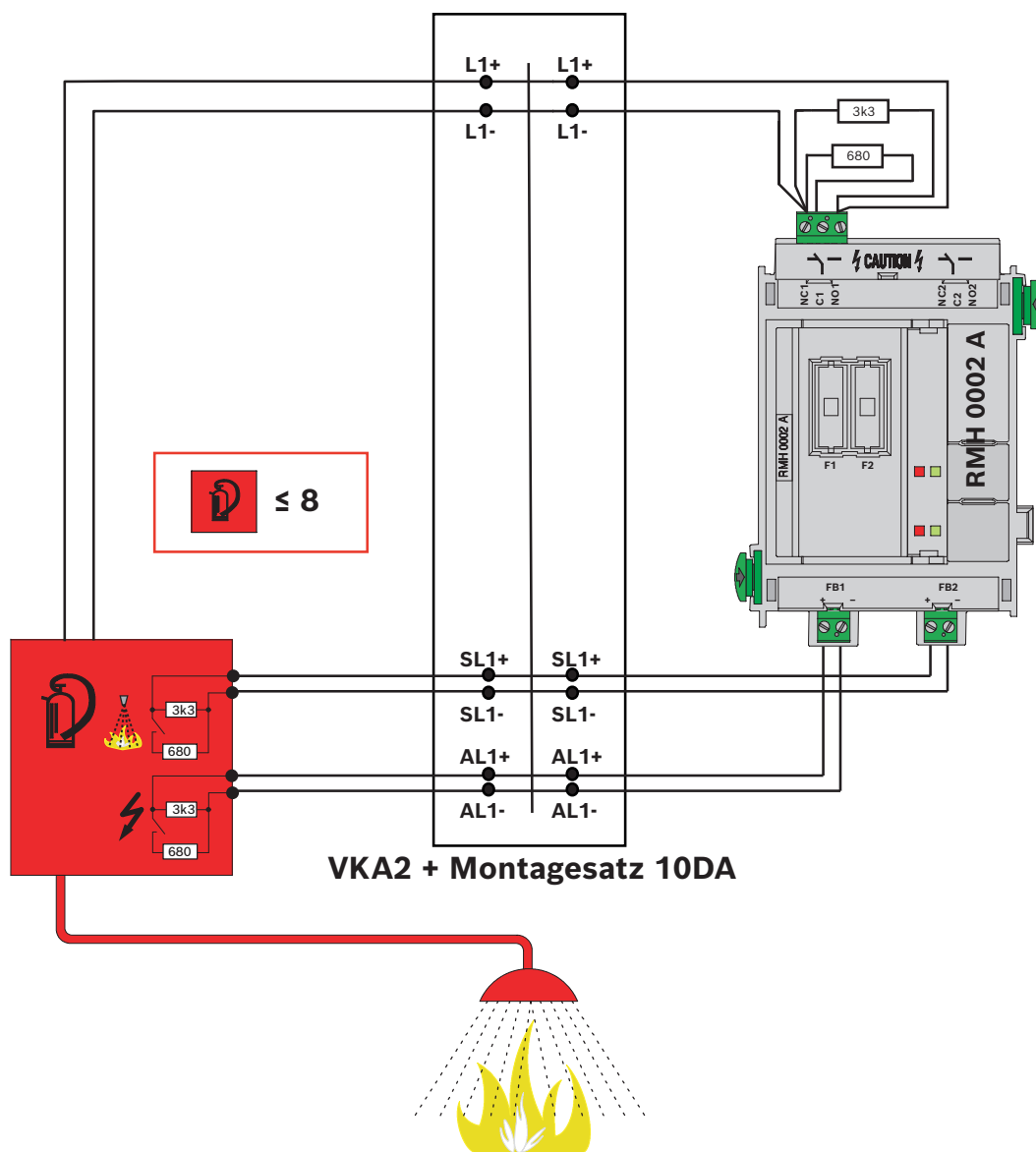
3.3.6

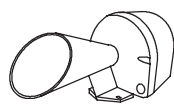
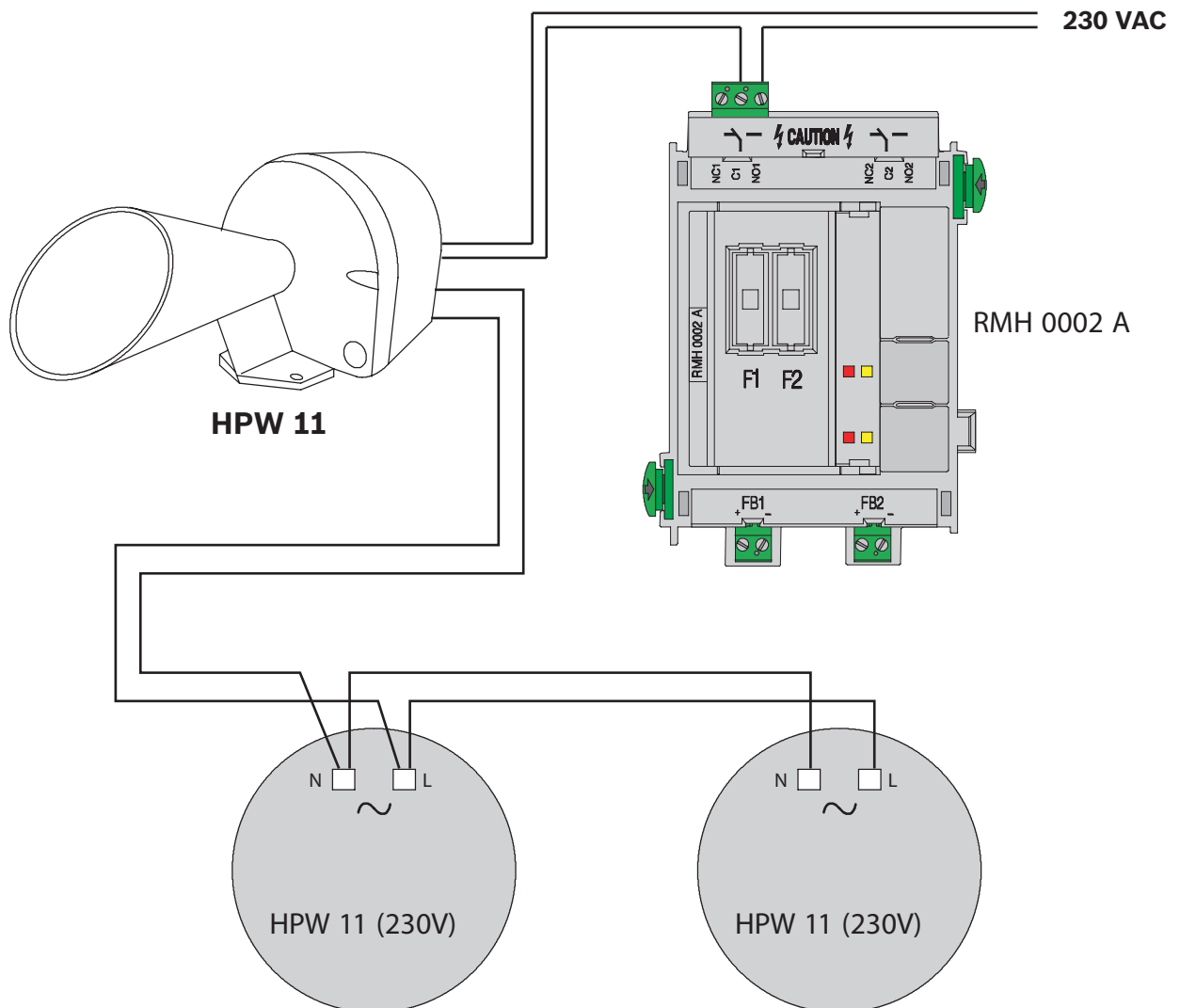
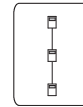
RMH 0002 A

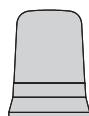
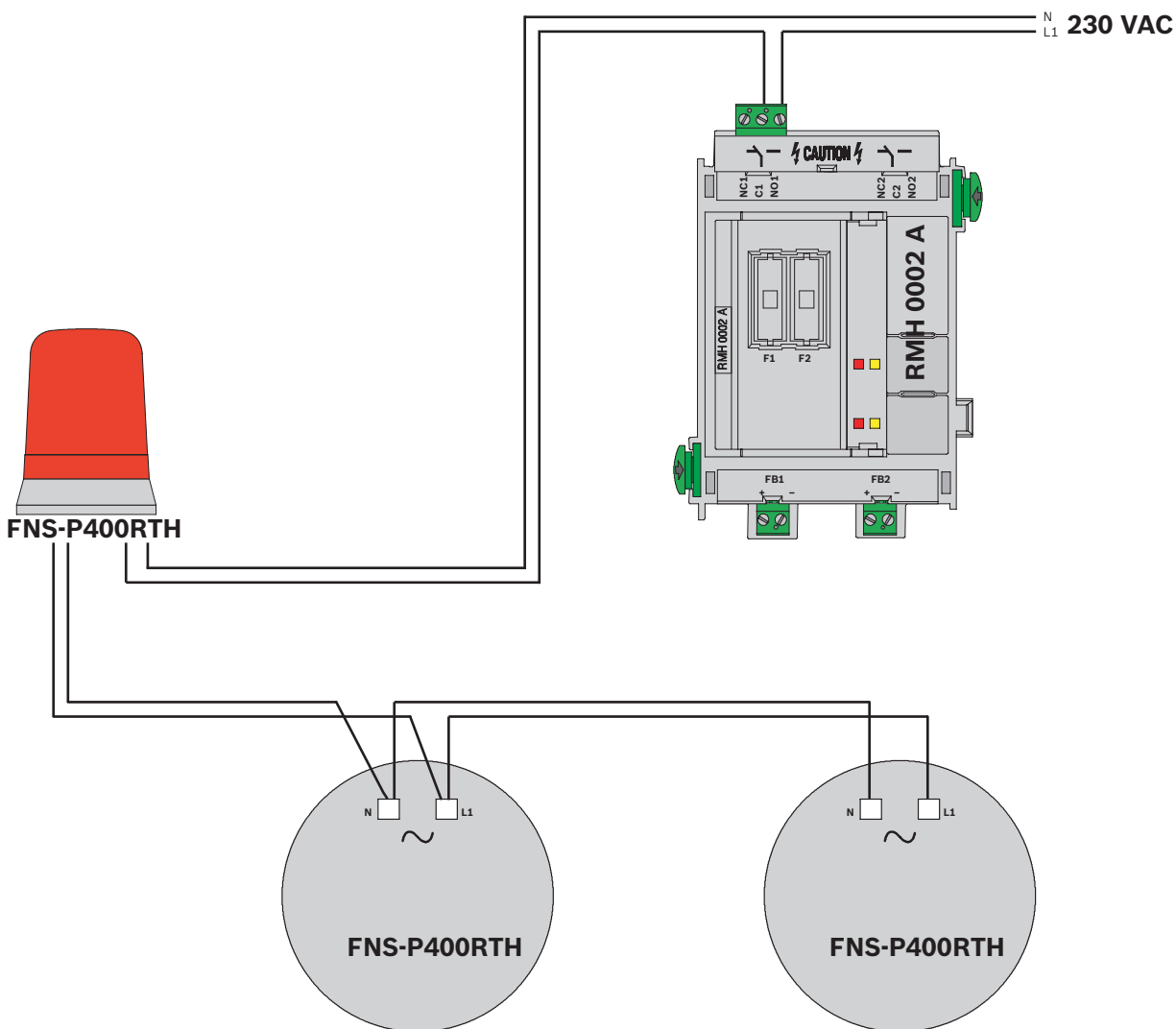
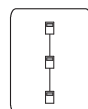


Löschanlage

VdS 2496:2005-09

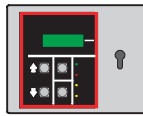


**HPW 11**

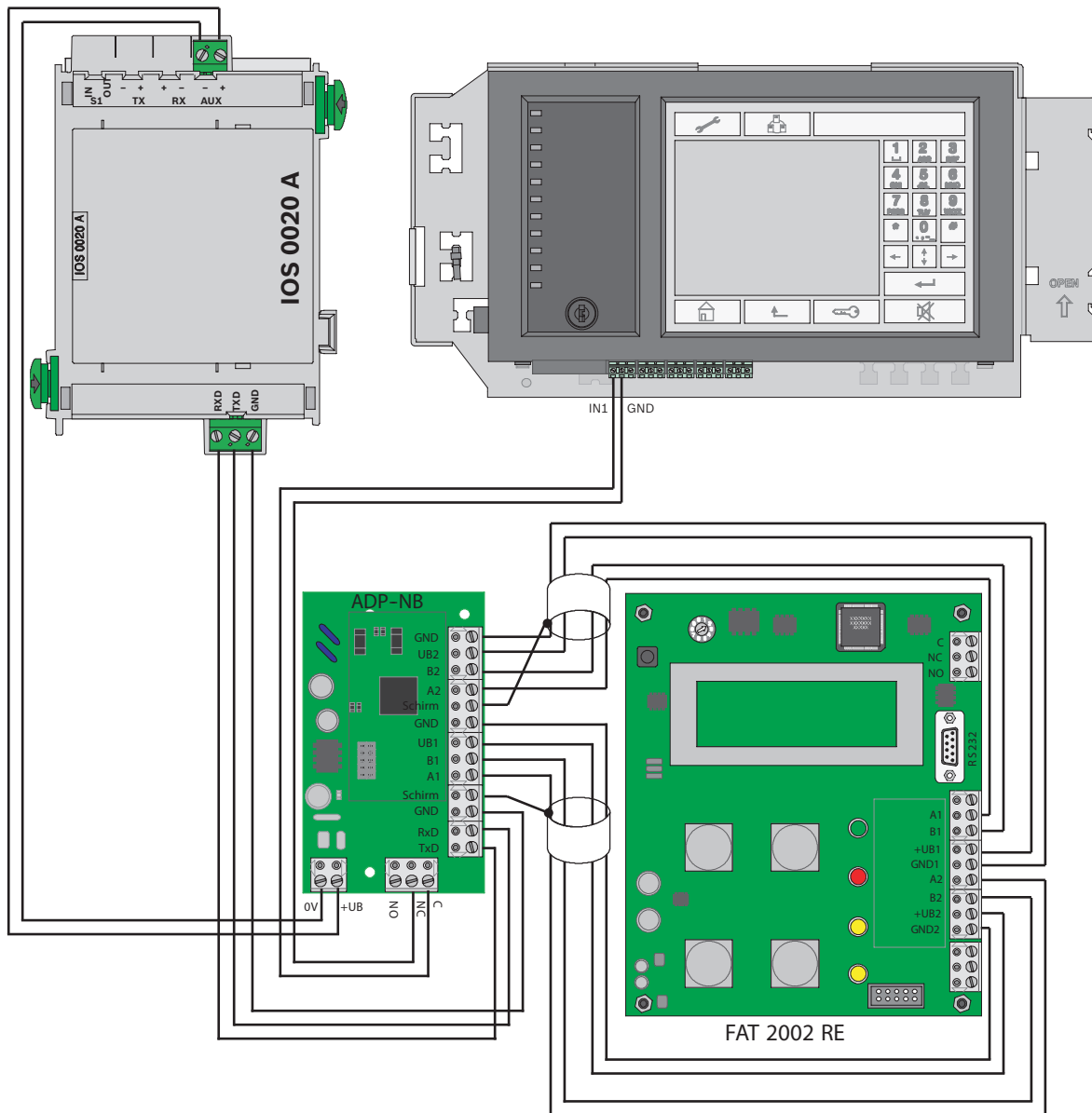
**FNS-P400RTH**

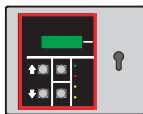
3.3.7

IOS 0020 A

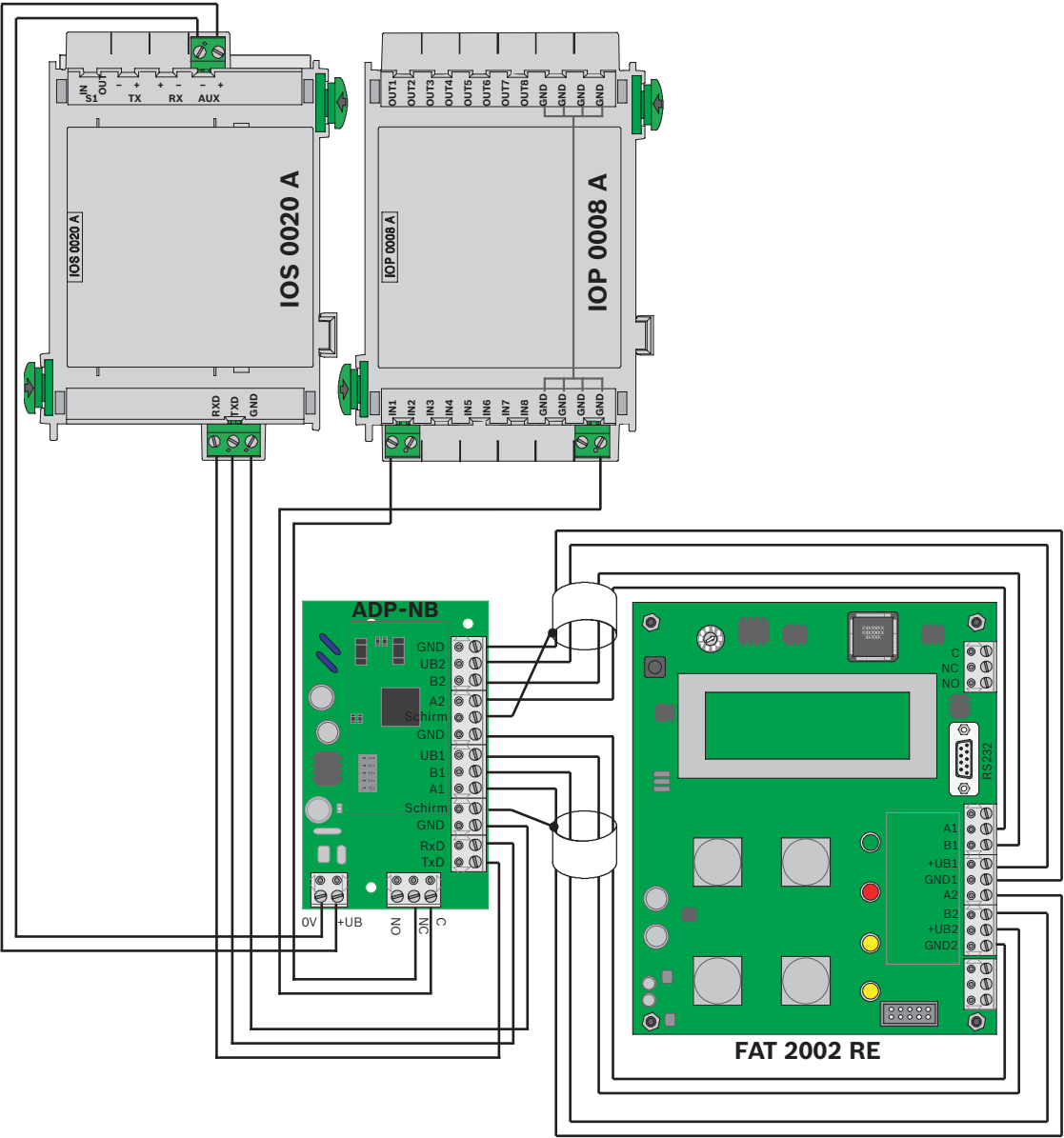


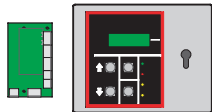
**FAT 2002 RE
ADP-NB**



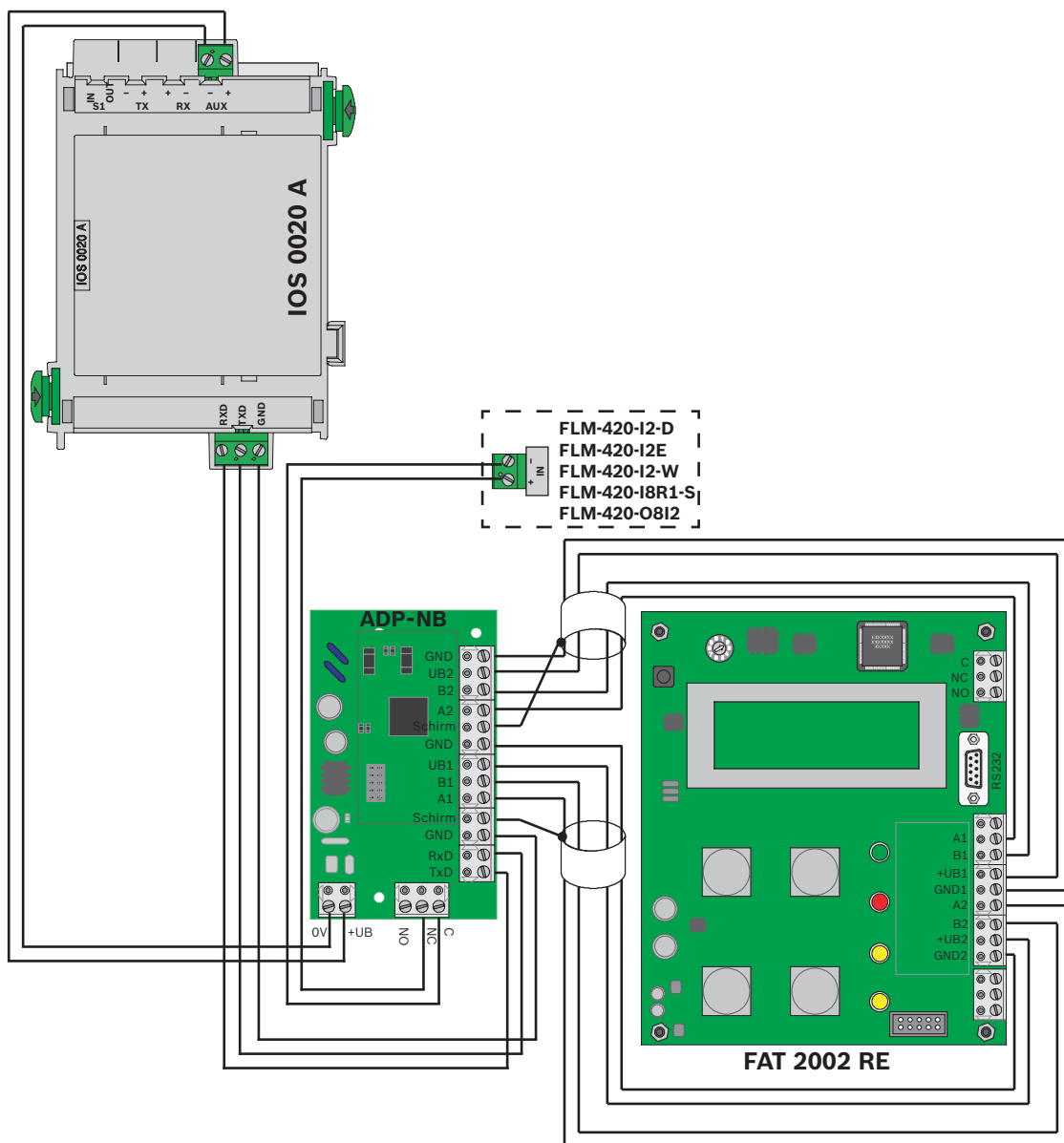


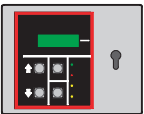
FAT 2002 RE
ADP-NB



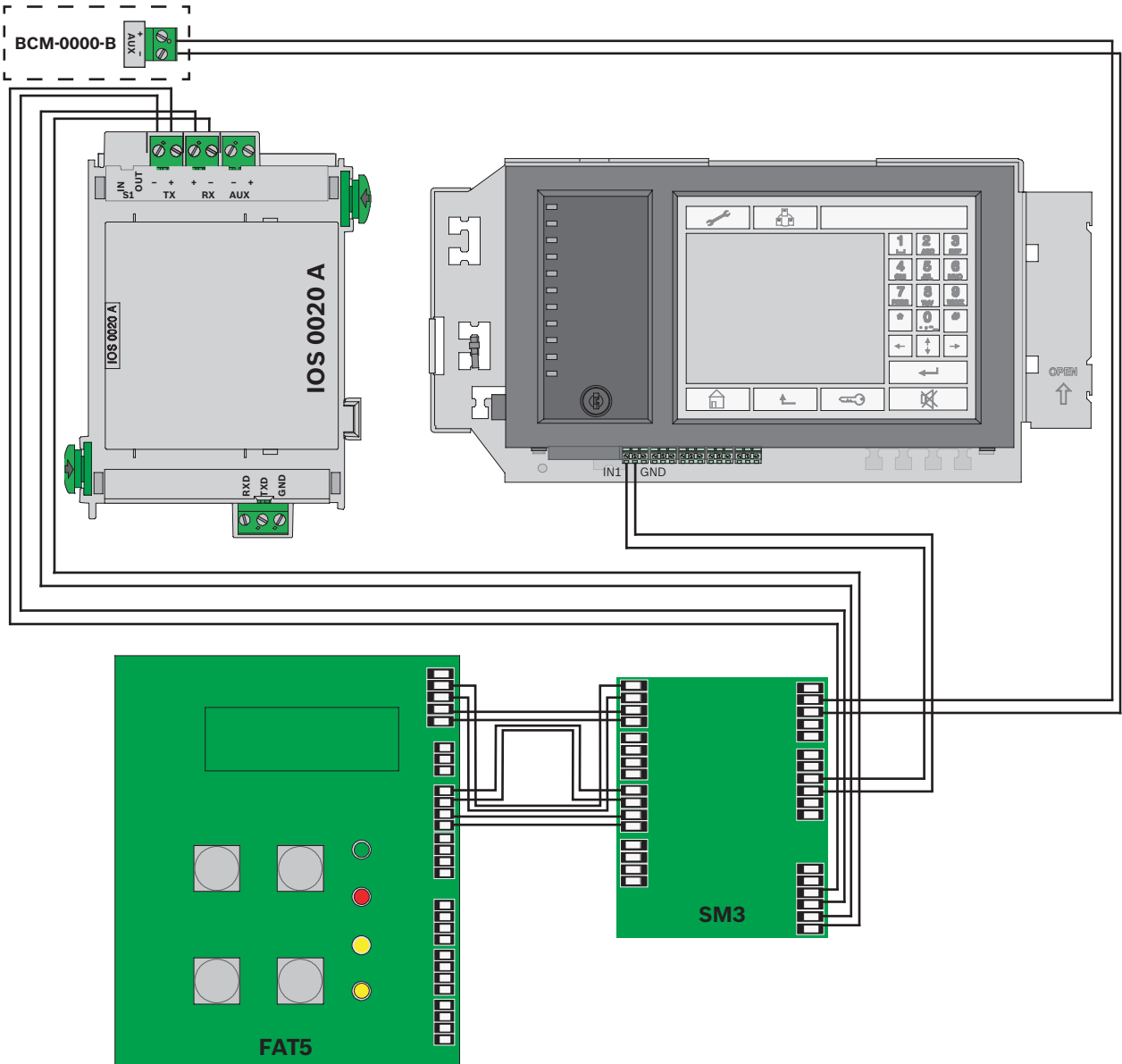


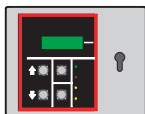
**FAT 2002 RE
ADP-NB**



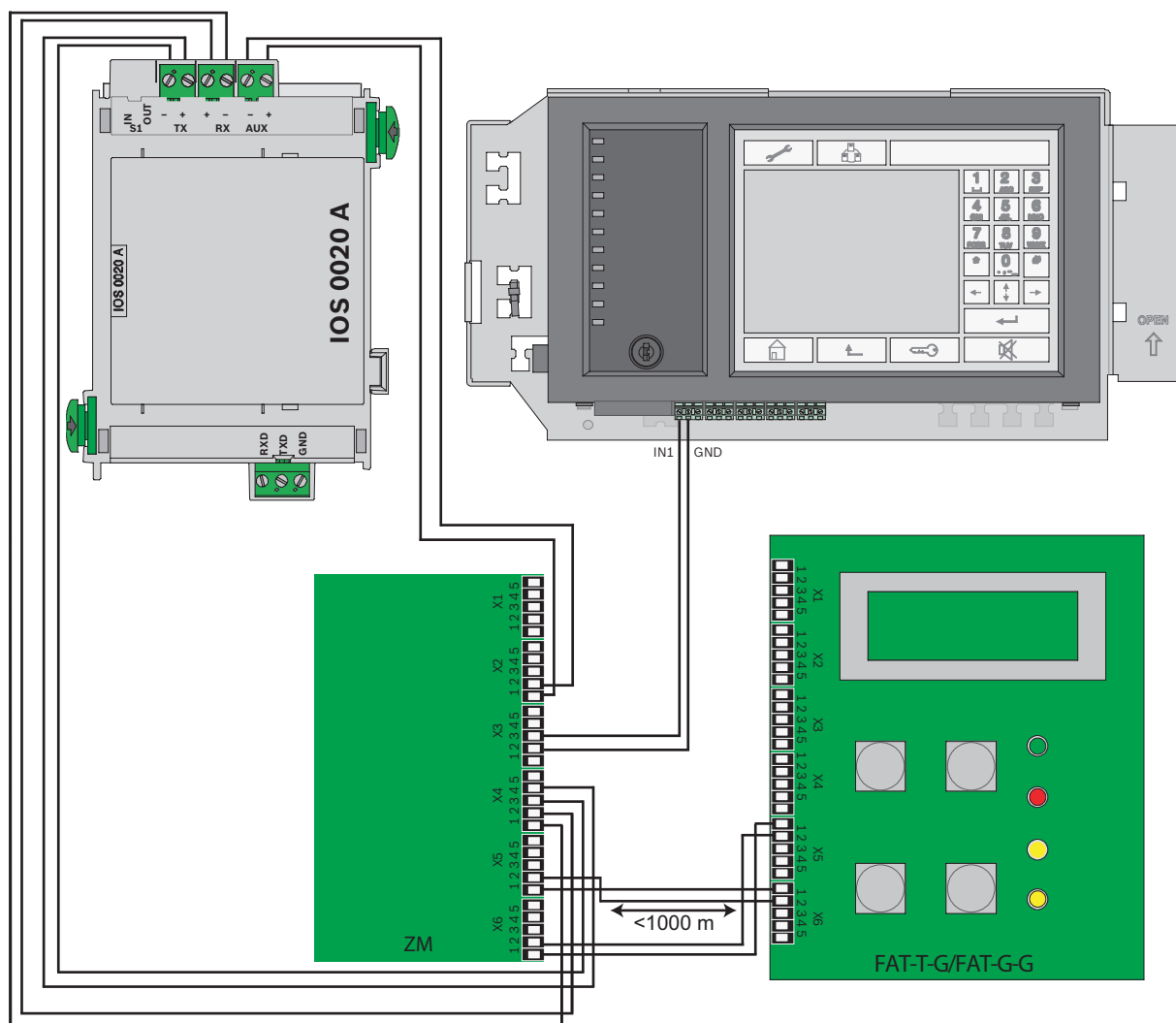


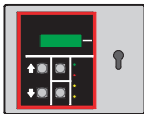
FAT5
SM3



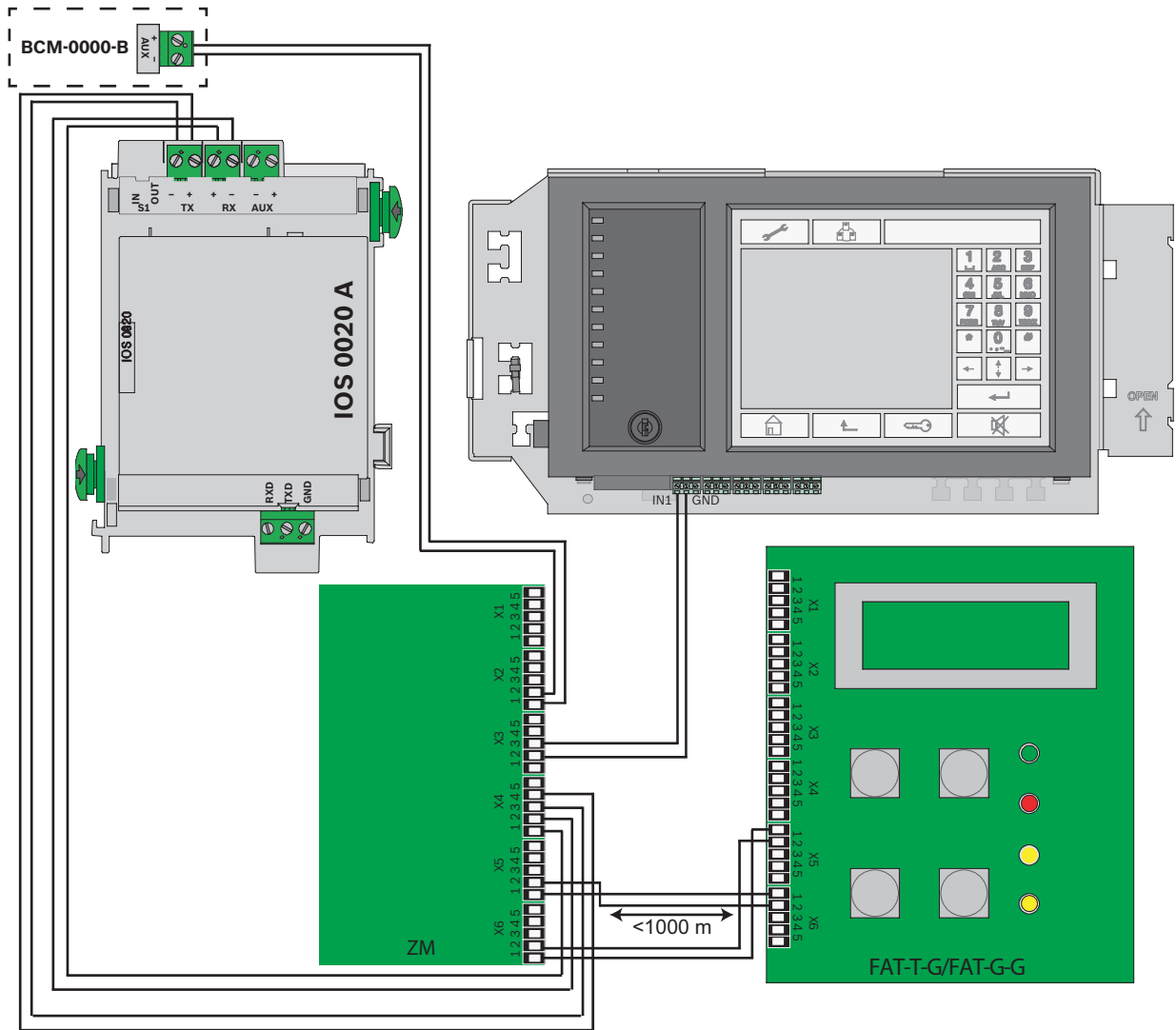


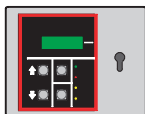
**FAT-T-G/FAT-G-G
ZM**



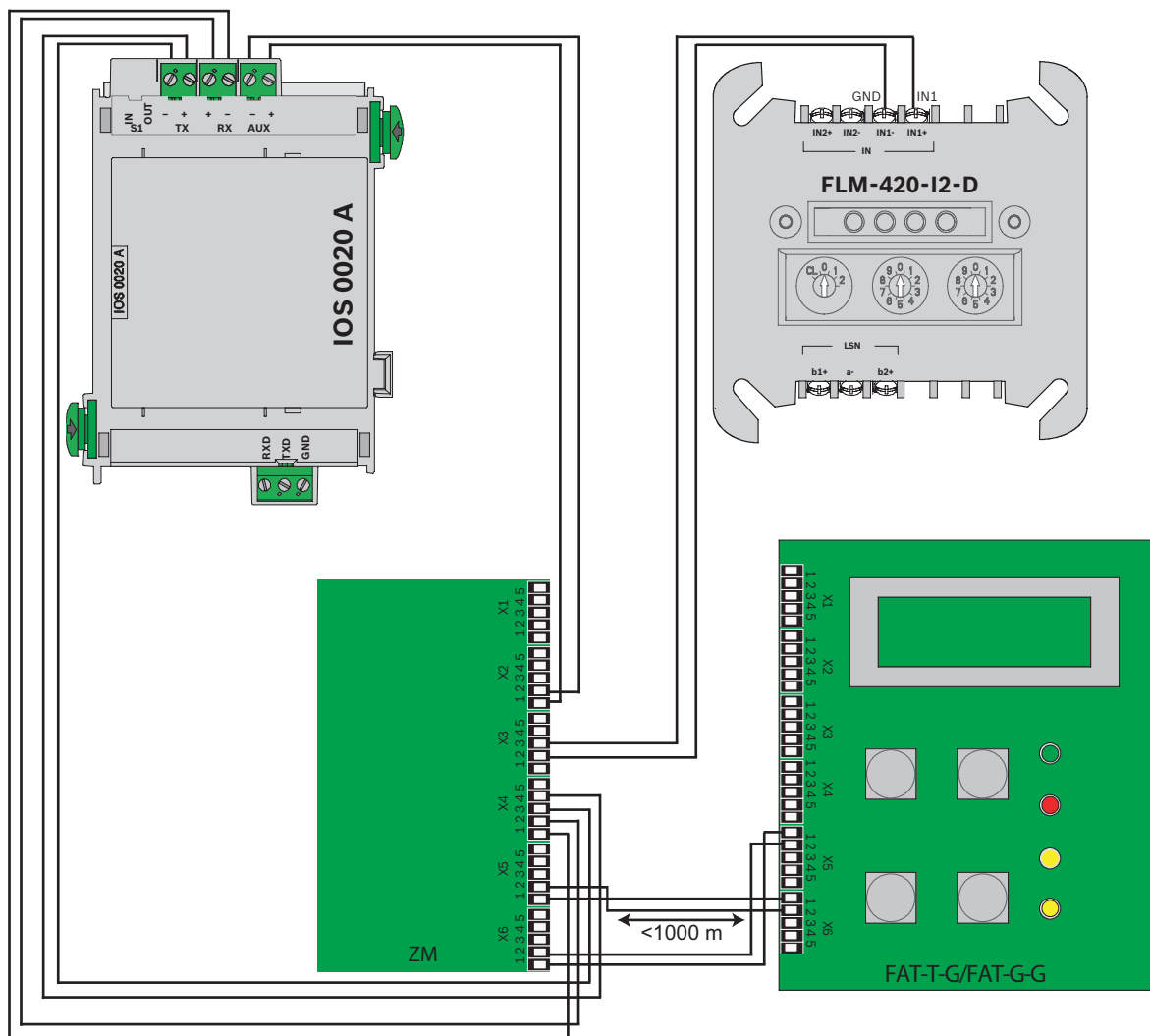


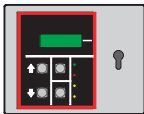
FAT-T-G/FAT-G-G
ZM



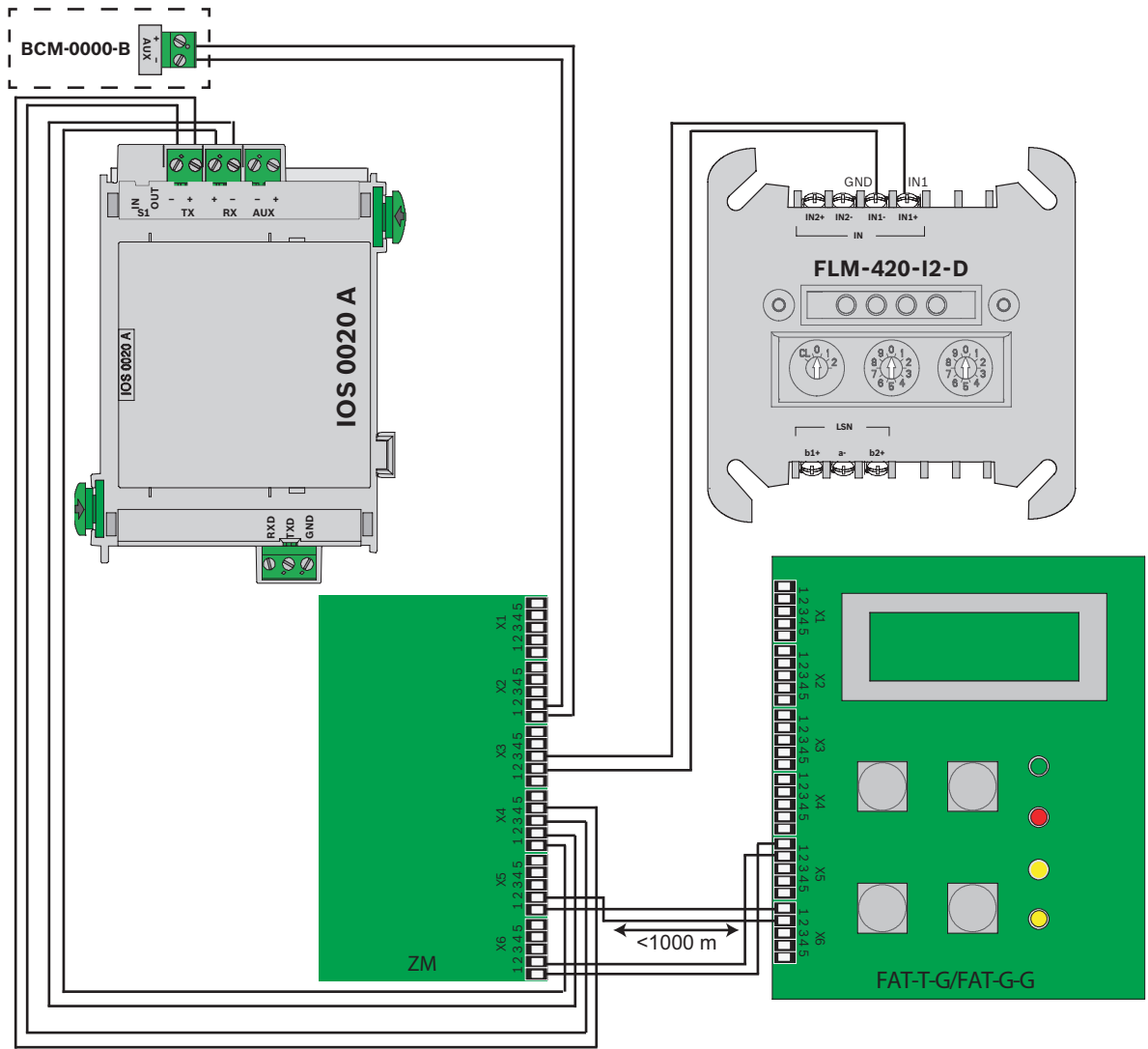


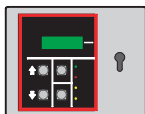
FAT-T-G/FAT-G-G
ZM



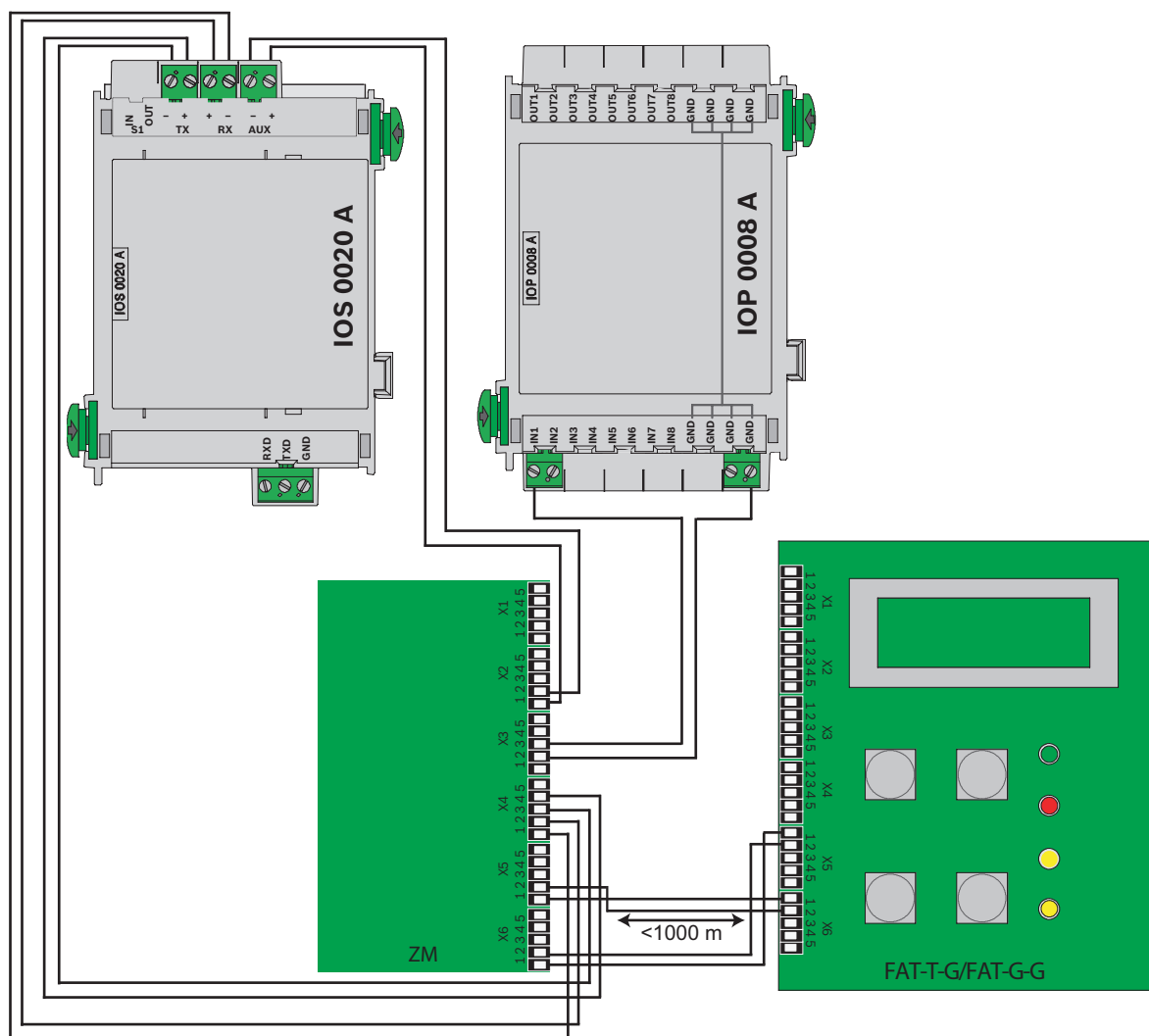


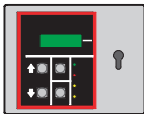
FAT-T-G/FAT-G-G
ZM



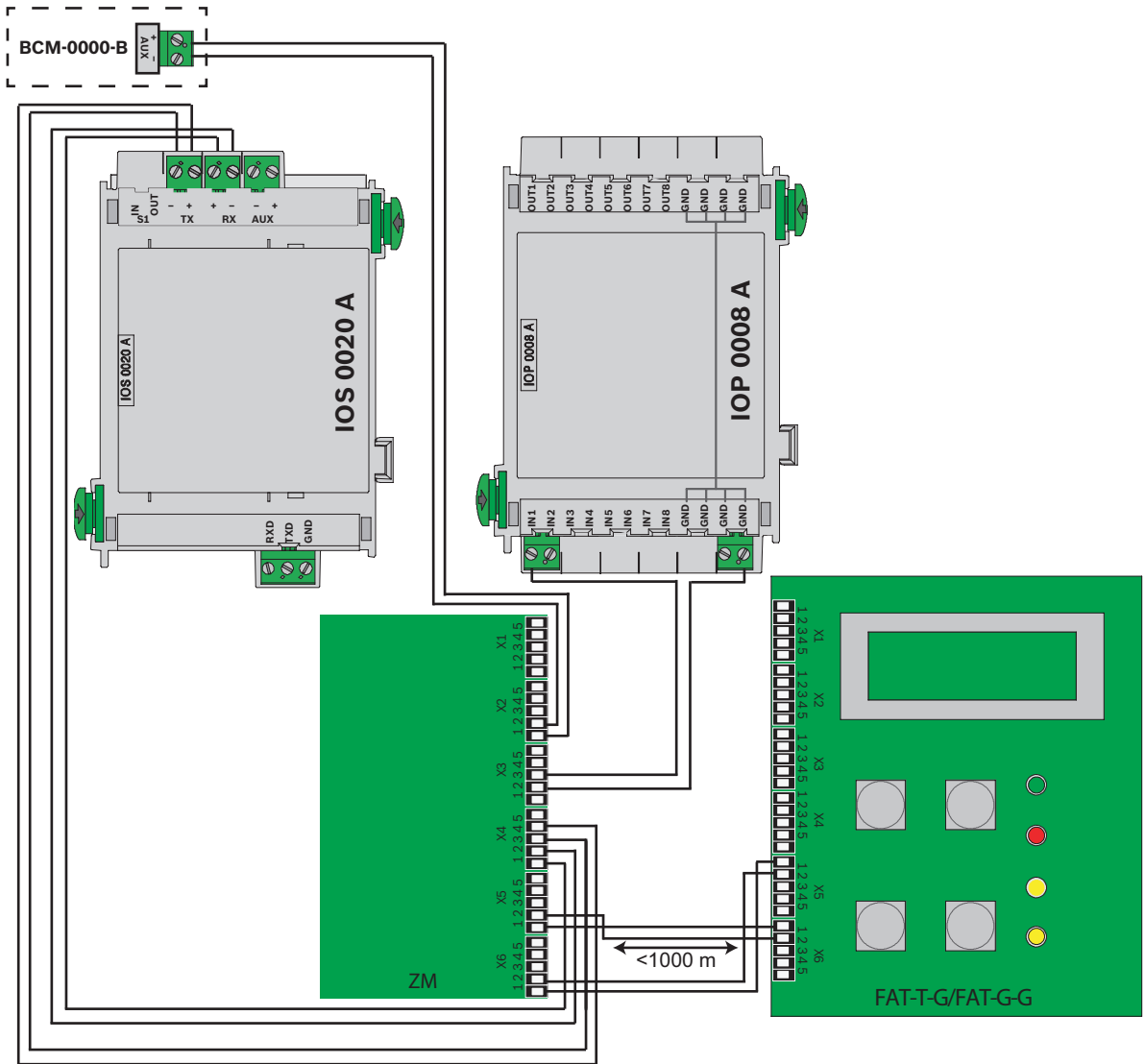


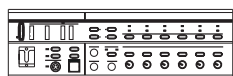
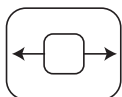
**FAT-T-G/FAT-G-G
ZM**



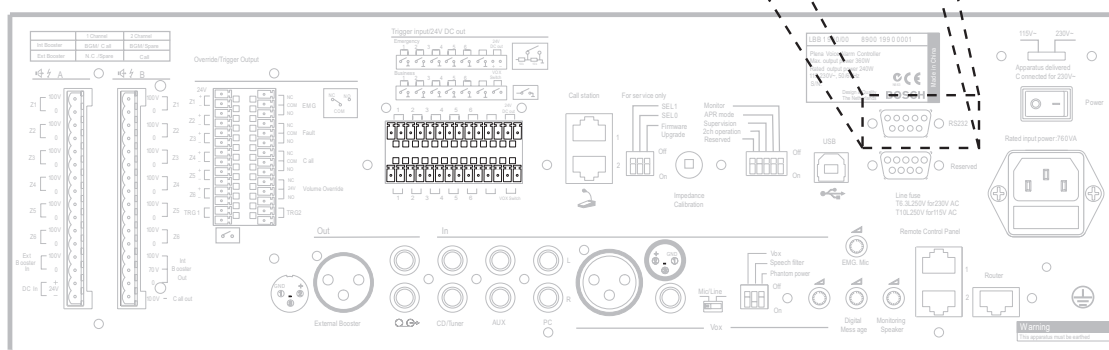
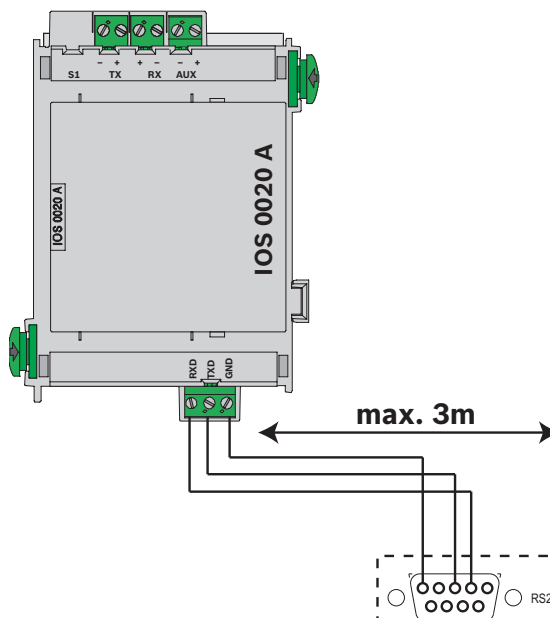
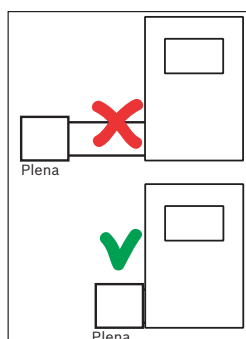


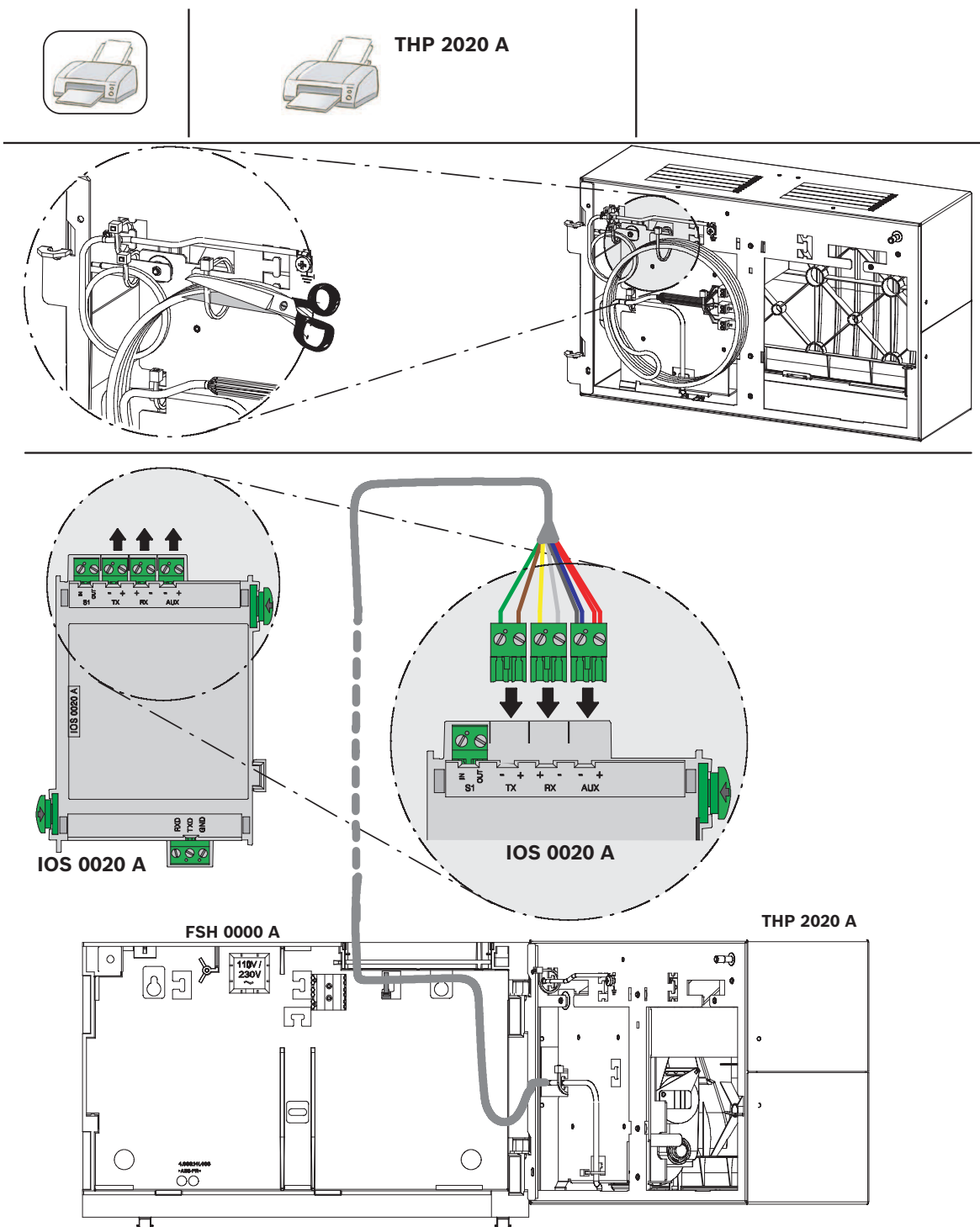
FAT-T-G/FAT-G-G
ZM

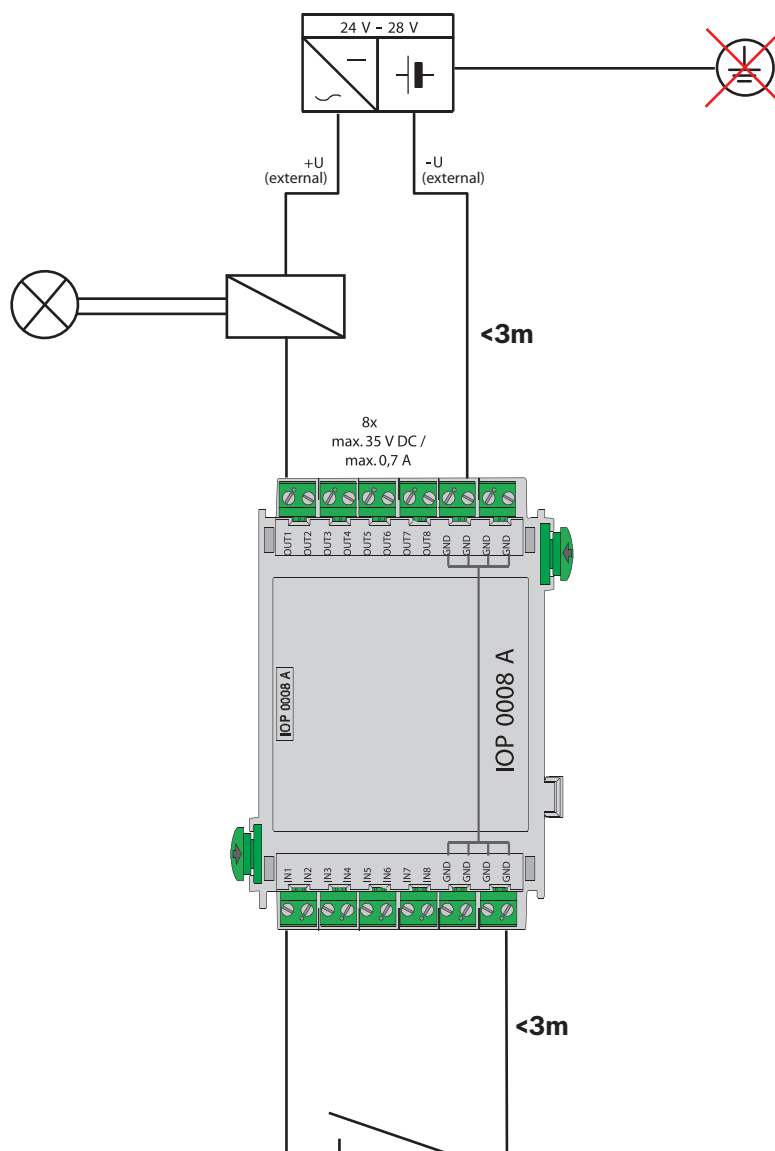
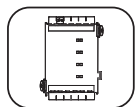




Plena





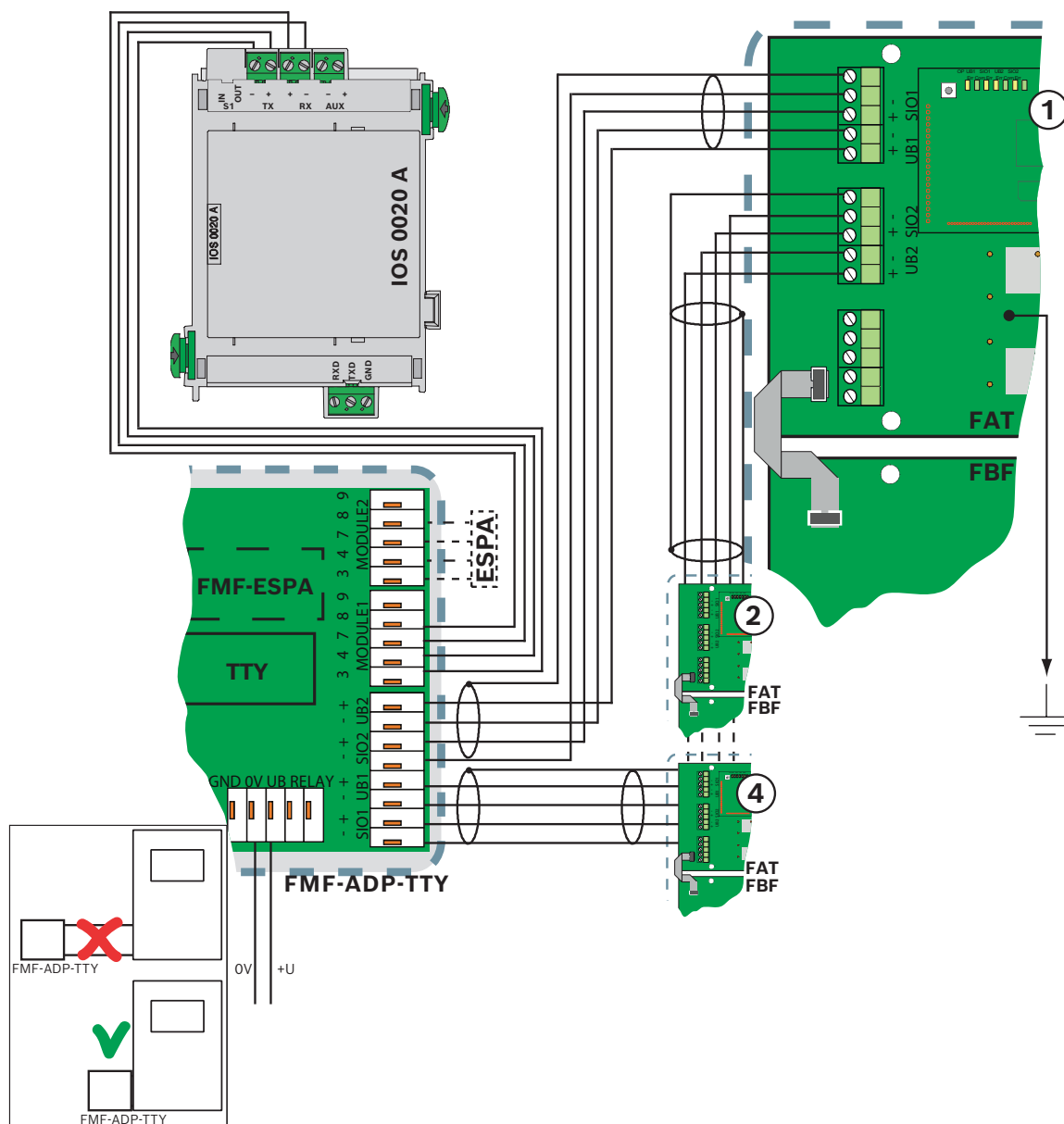


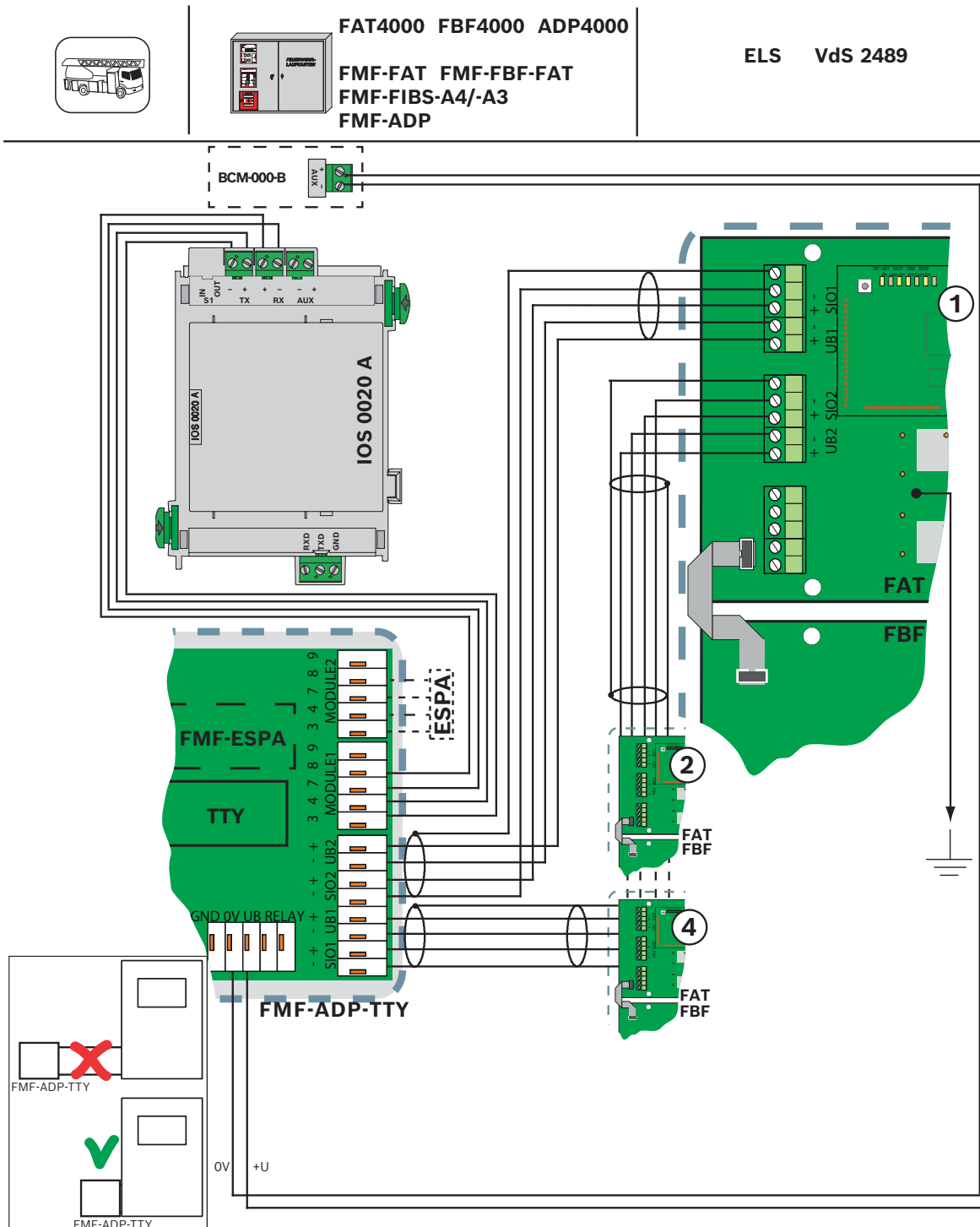


FAT4000 FBF4000 ADP4000

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

ELS VdS 2489





3.3.8

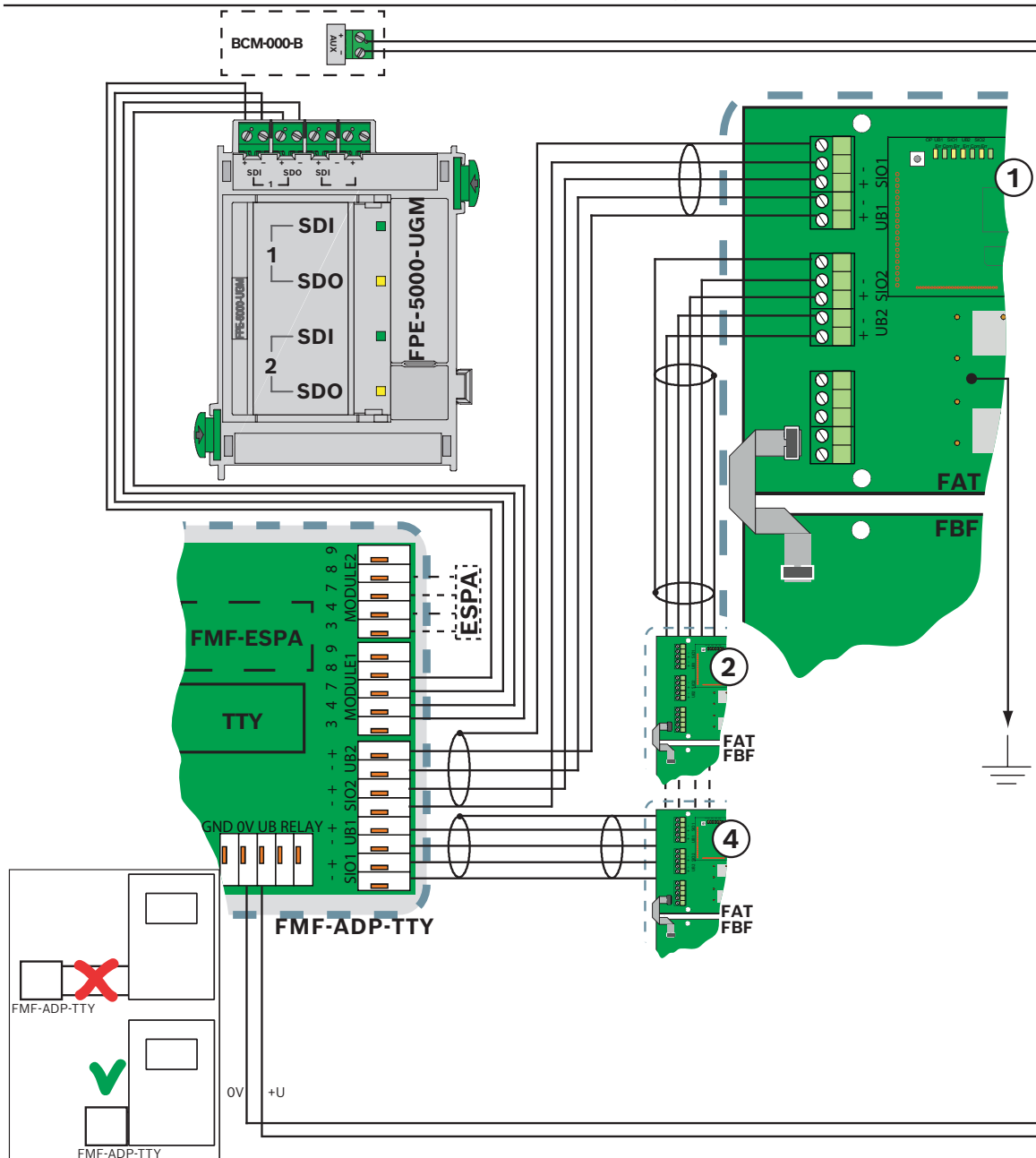
FPE-5000-UGM

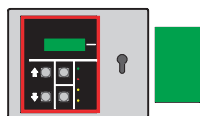
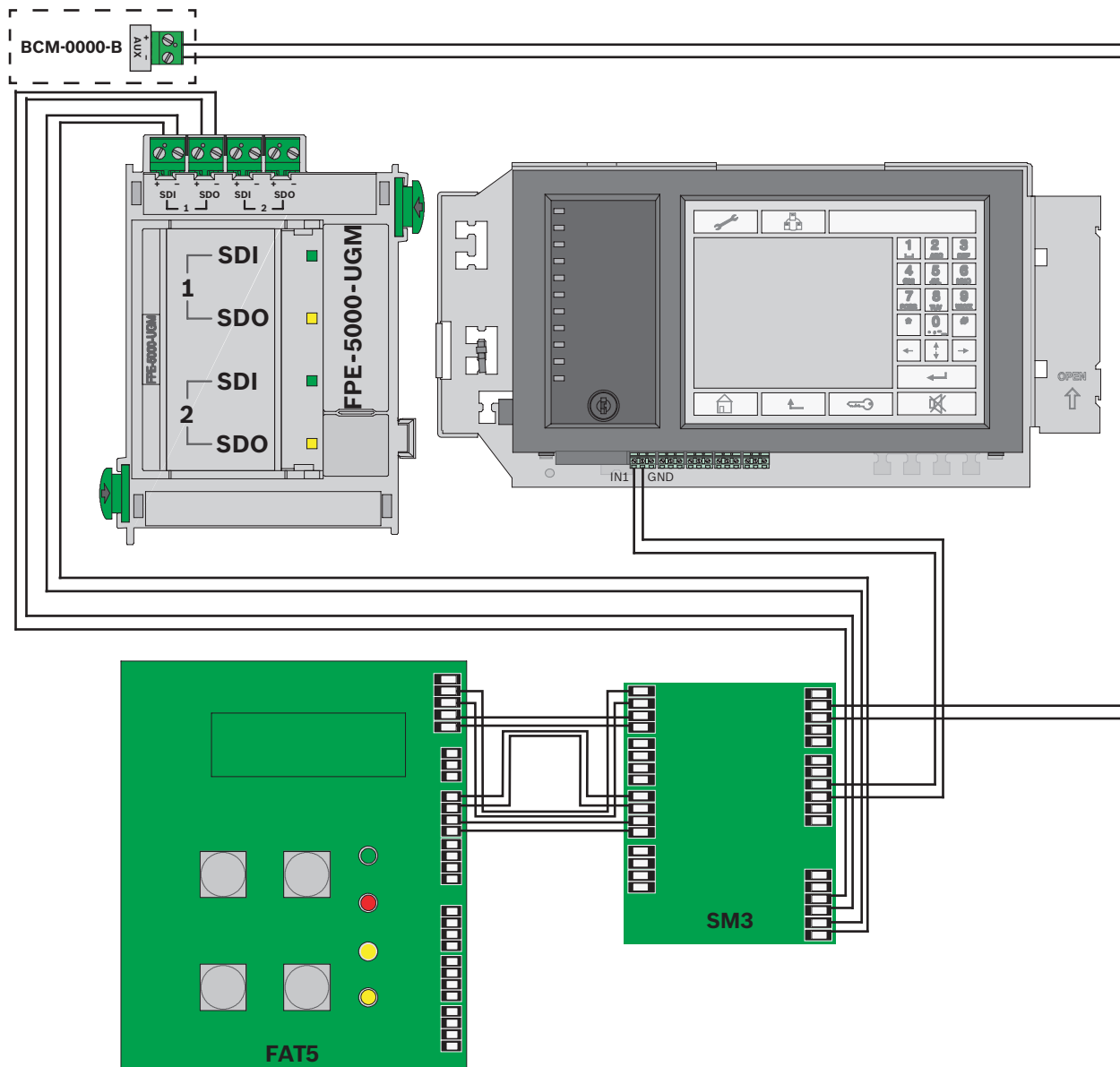


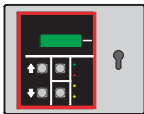
FAT4000 FBF4000 ADP4000

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

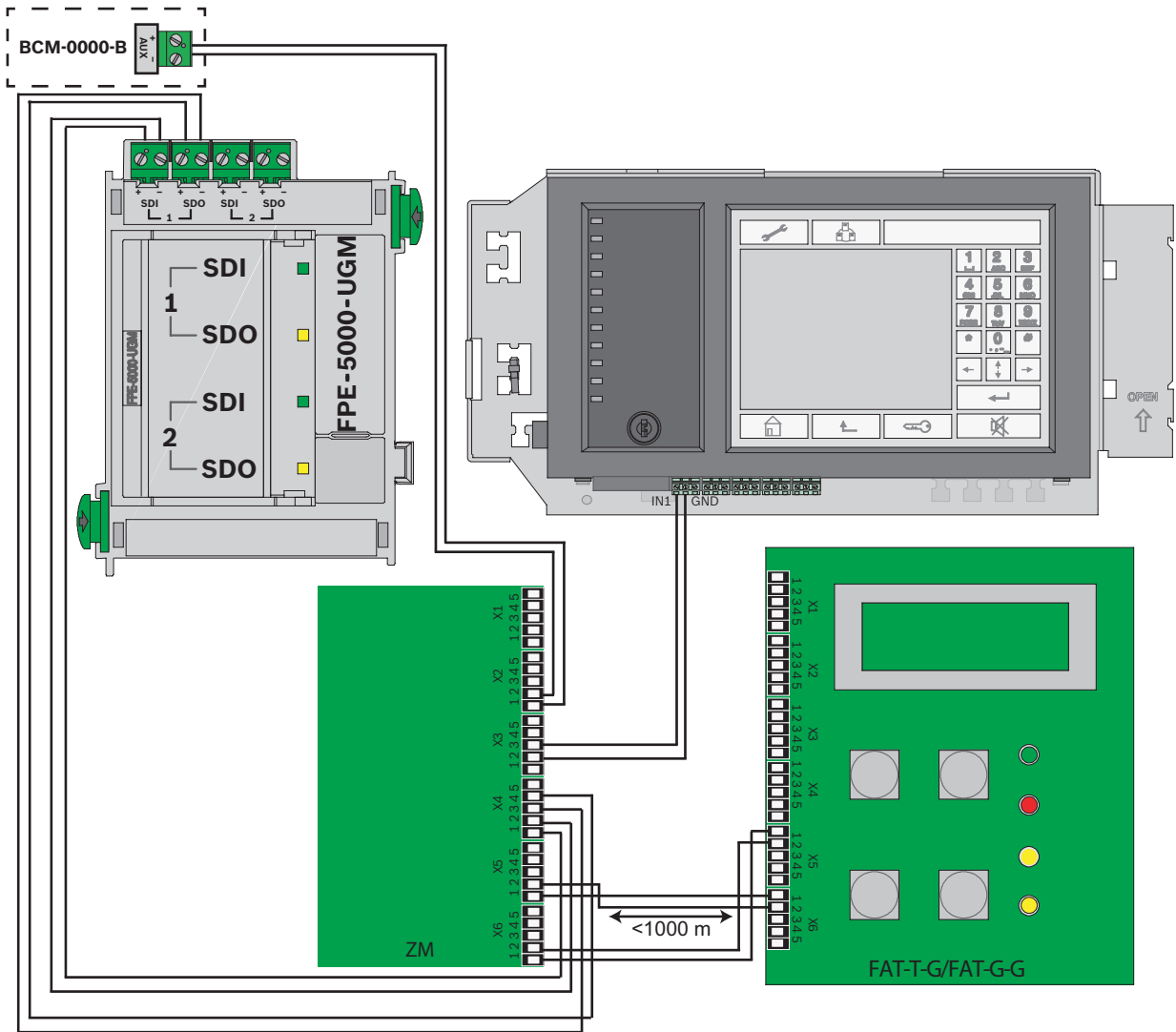
ELS VdS 2489

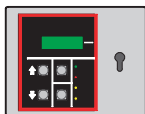


**FAT5
SM3**

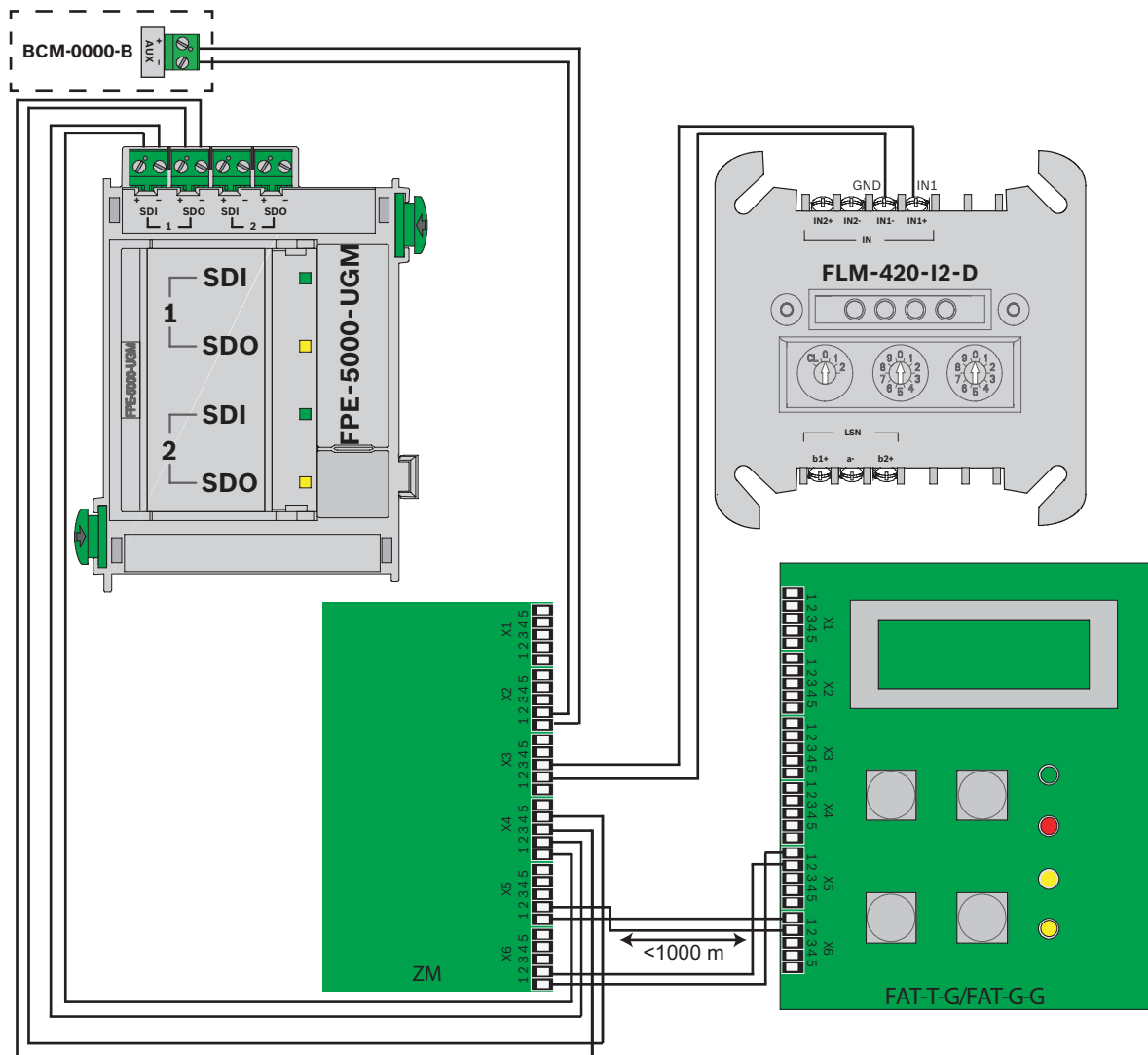


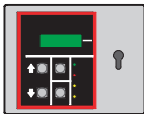
FAT-T-G/FAT-G-G
ZM



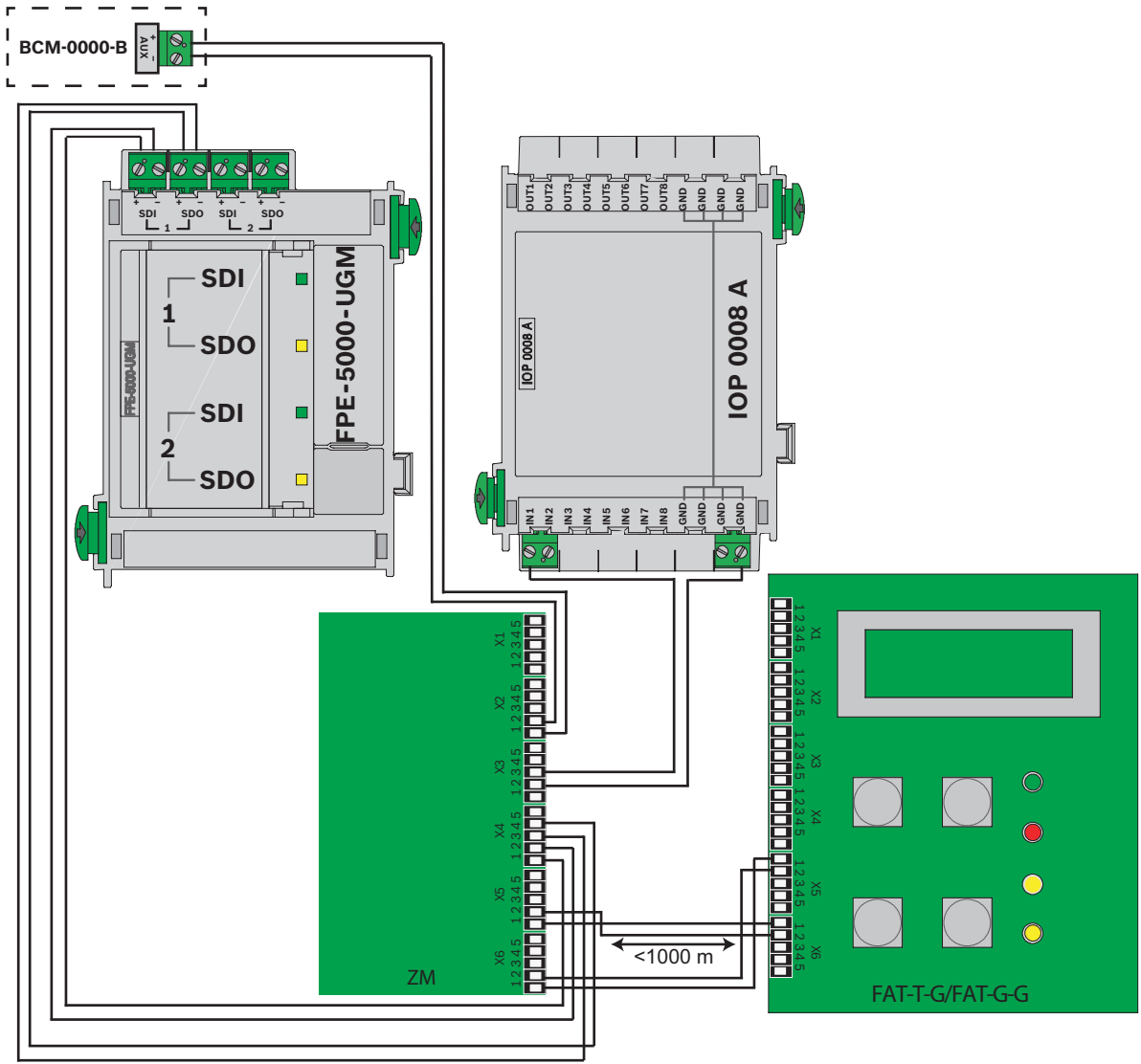


FAT-T-G/FAT-G-G
ZM





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



3.4 Interfacemodules



FLM-420/4-CON-D/S, pagina 138

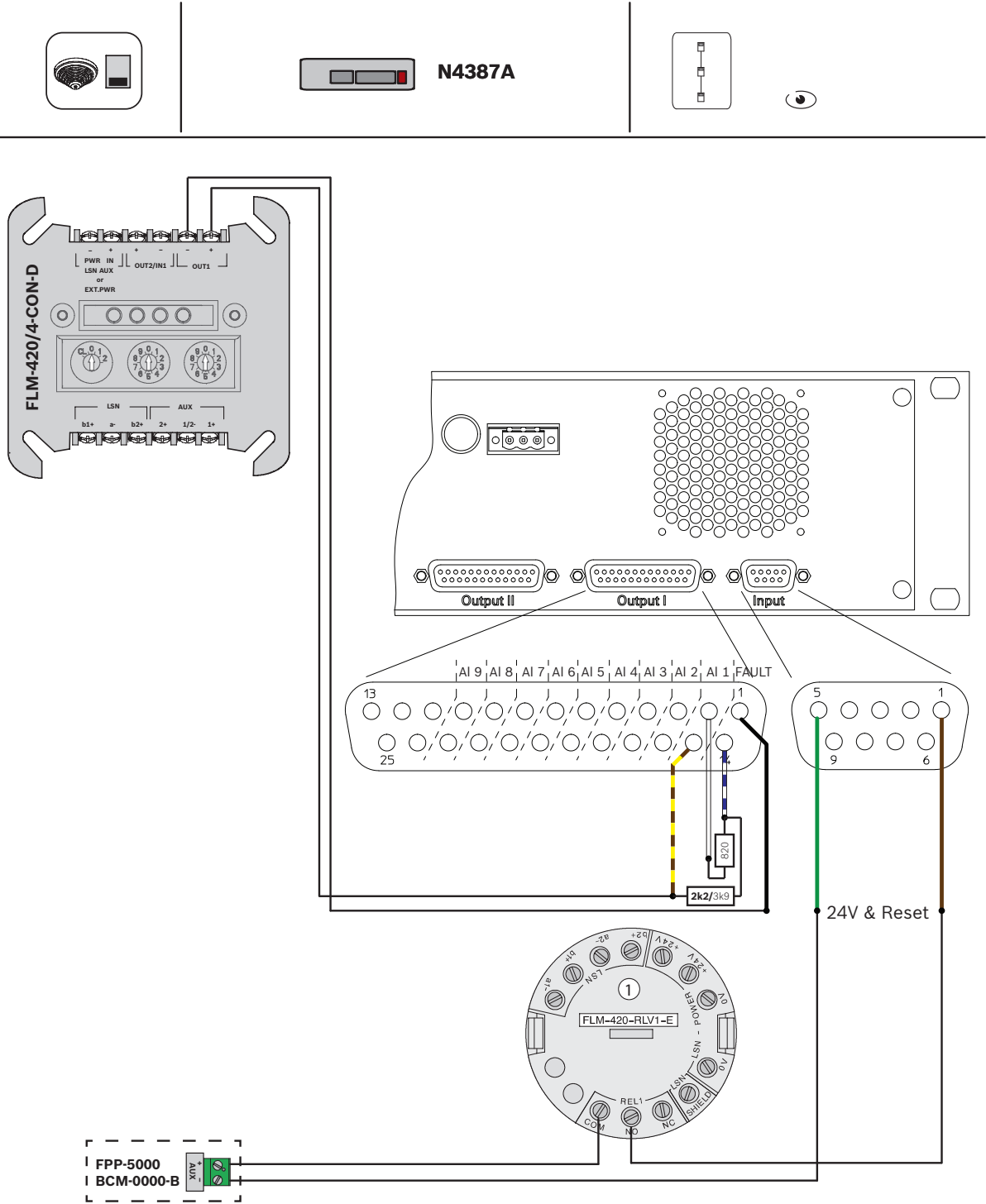
FLM-420-NAC-D/S, pagina 163

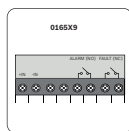
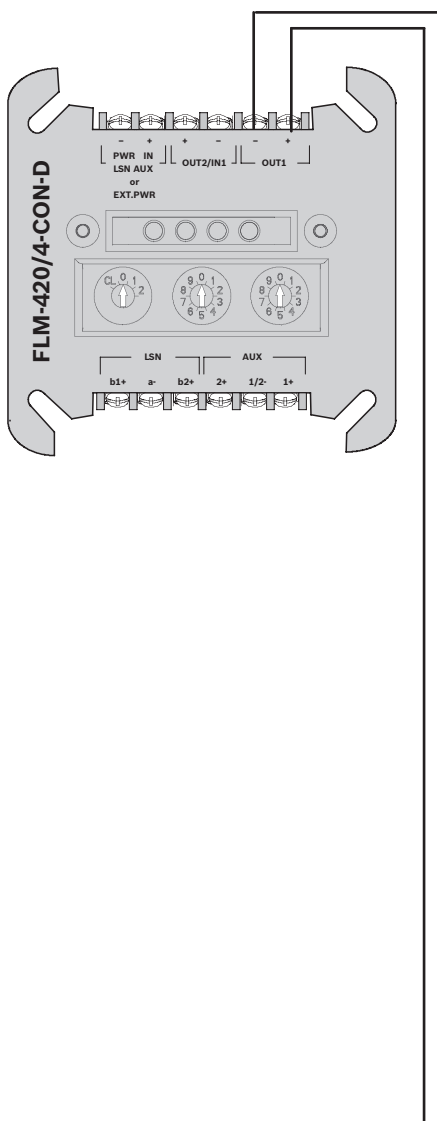
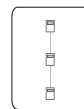
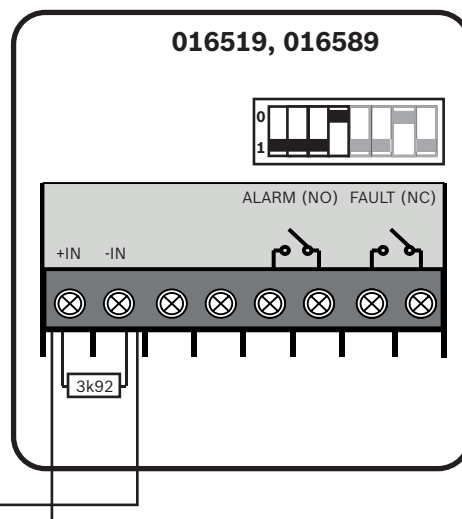
FLM-420-RLE-S, pagina 176

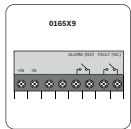
FLM-420-RLV1-E, pagina 177

FLM-420-RLV8-S, pagina 178

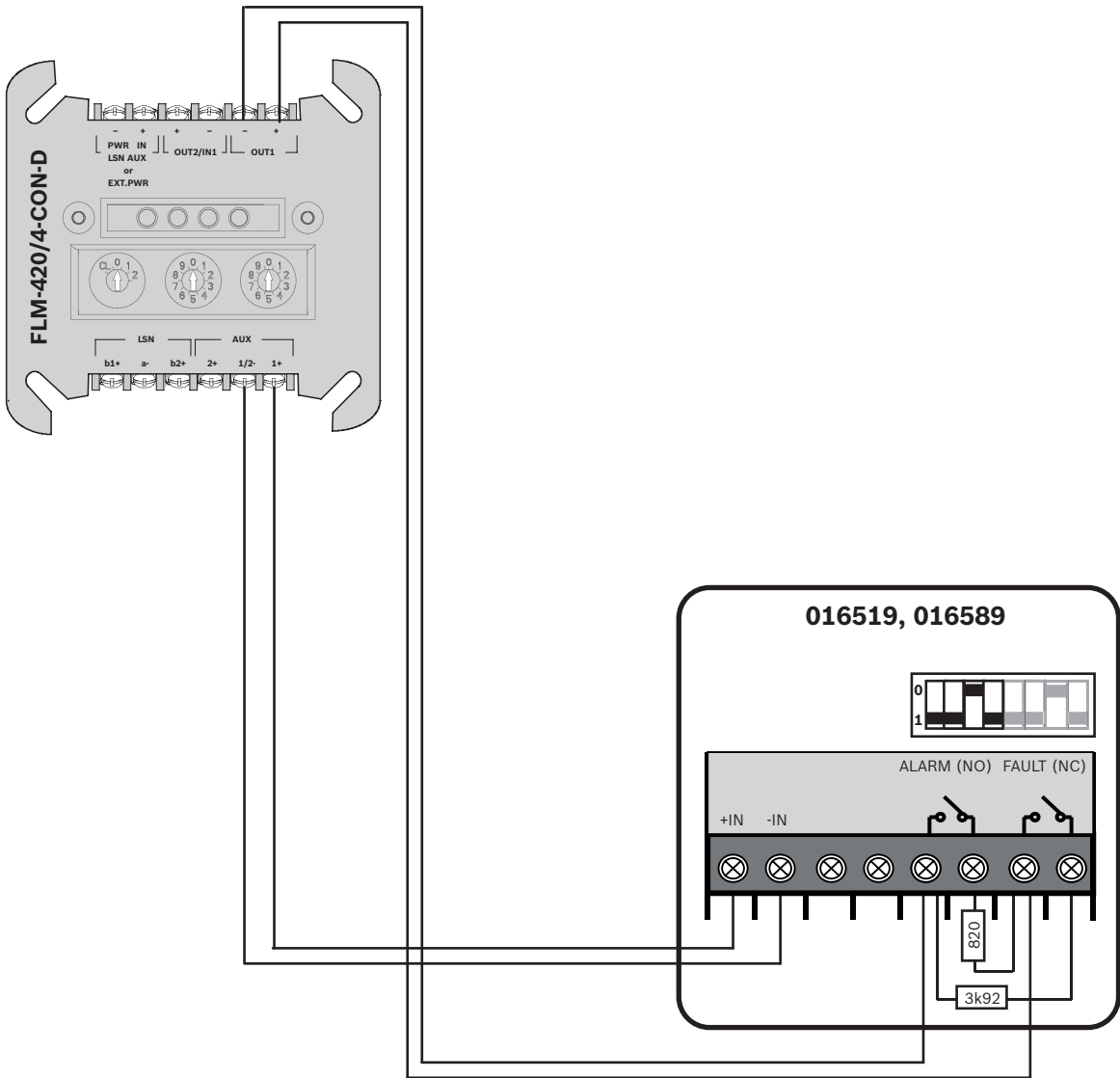
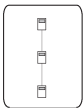
3.4.1 FLM-420/4-CON-D/S

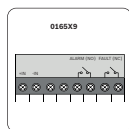
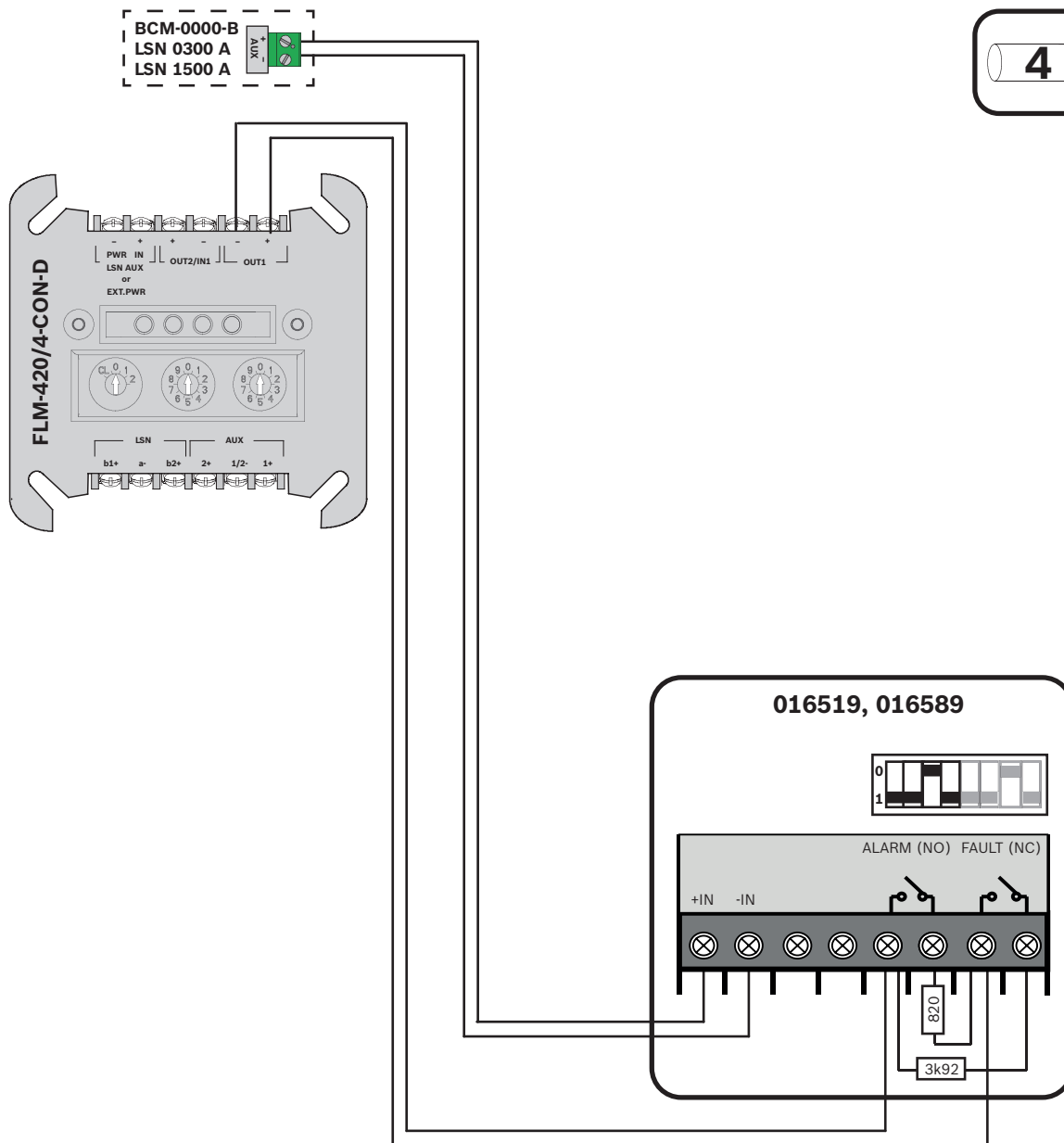
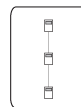


**016519, 016589
IR3 Flame Detector****max. 1 x 0165X9**



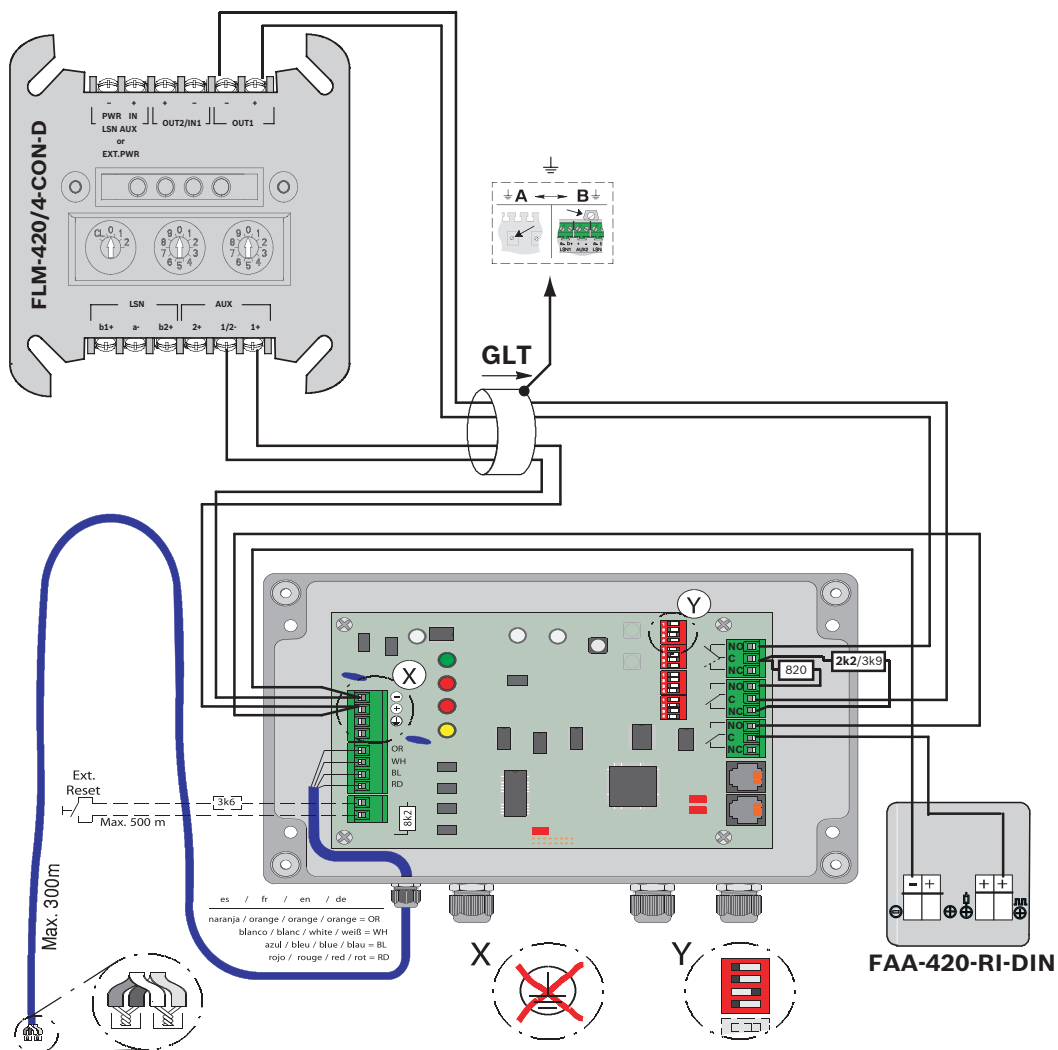
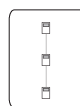
016519, 016589
IR3 Flame Detector

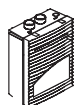


**016519, 016589**
IR3 Flame Detector



FCS-LWM-1

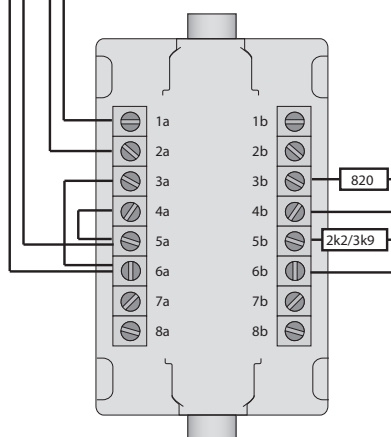
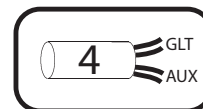
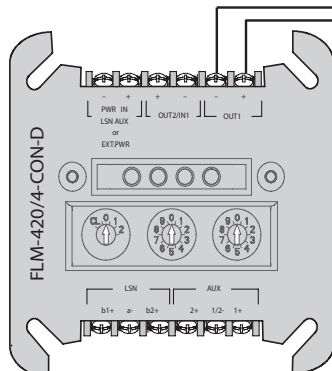


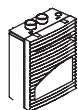


FCS-320-TM Series

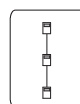


BCM-0000-B
LSN 0300 A
LSN 1500 A

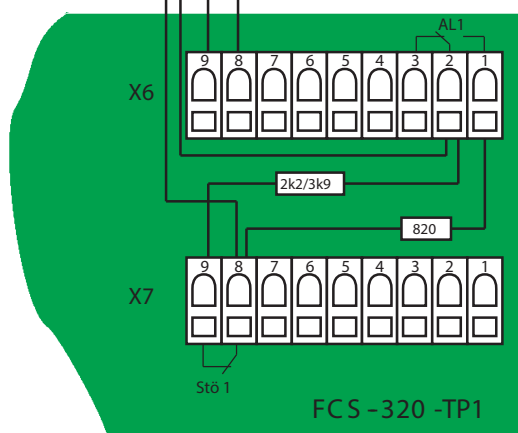
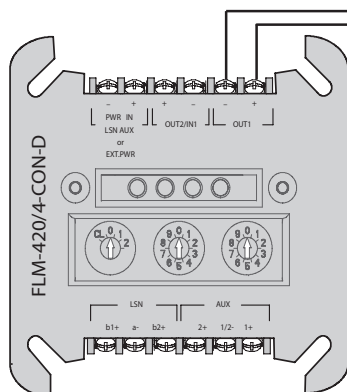
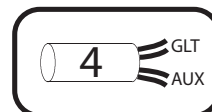


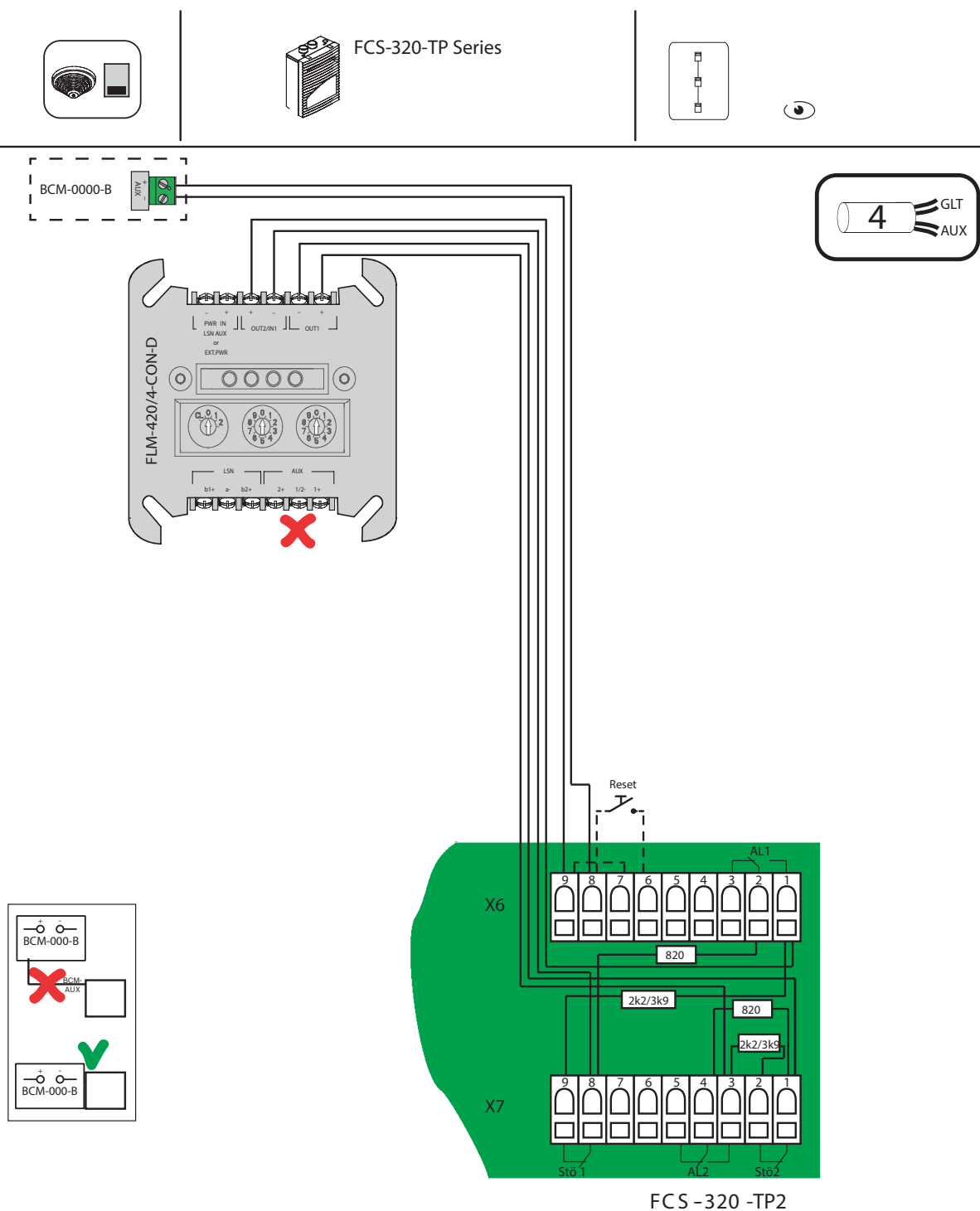


FCS-320-TP Series



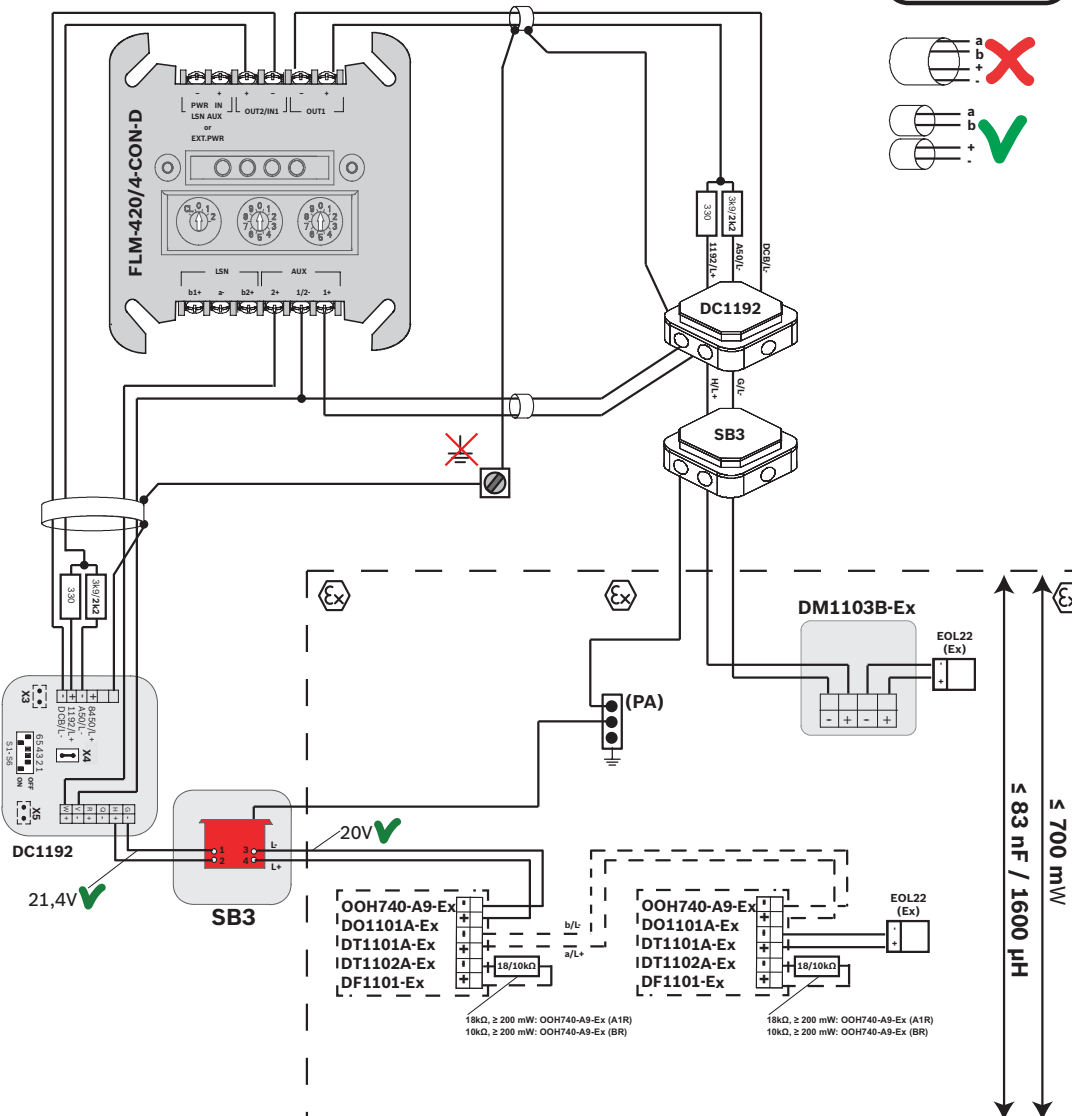
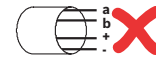
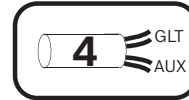
BCM-0000-B
LSN 0300 A
LSN 1500 A





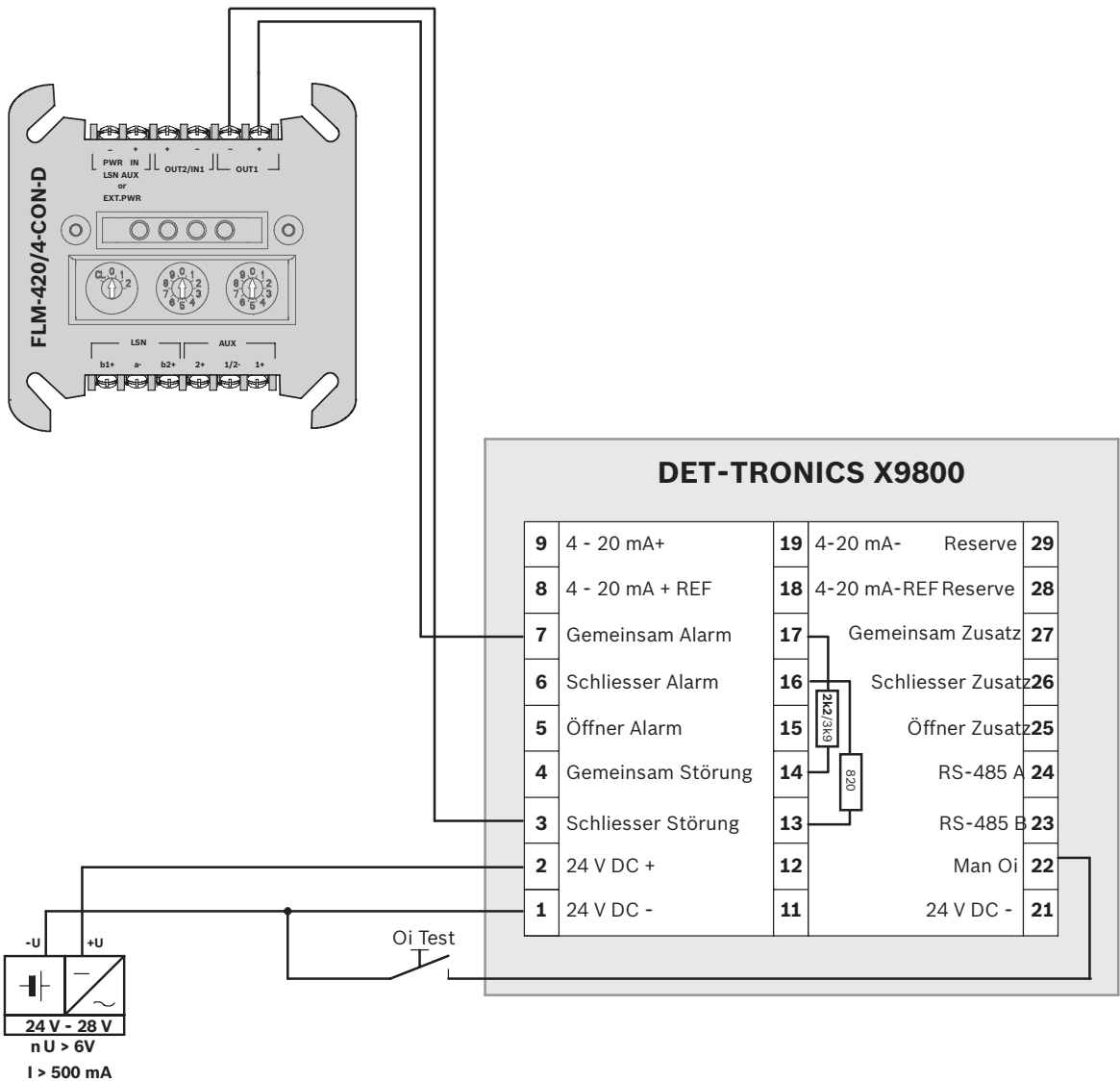
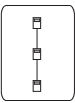


DC1192, SB3
OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex/DT1102A-Ex
DF1101-Ex
DM1103B-Ex



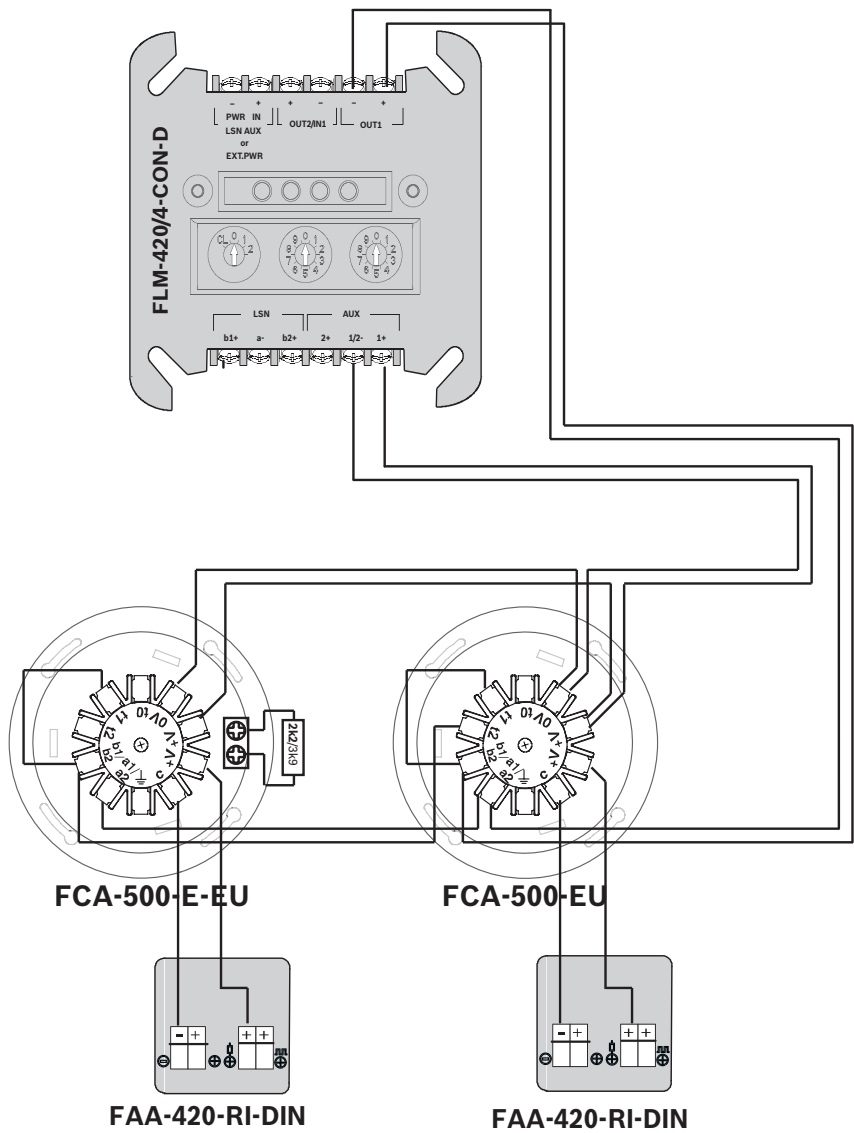


DET-TRONICS X9800



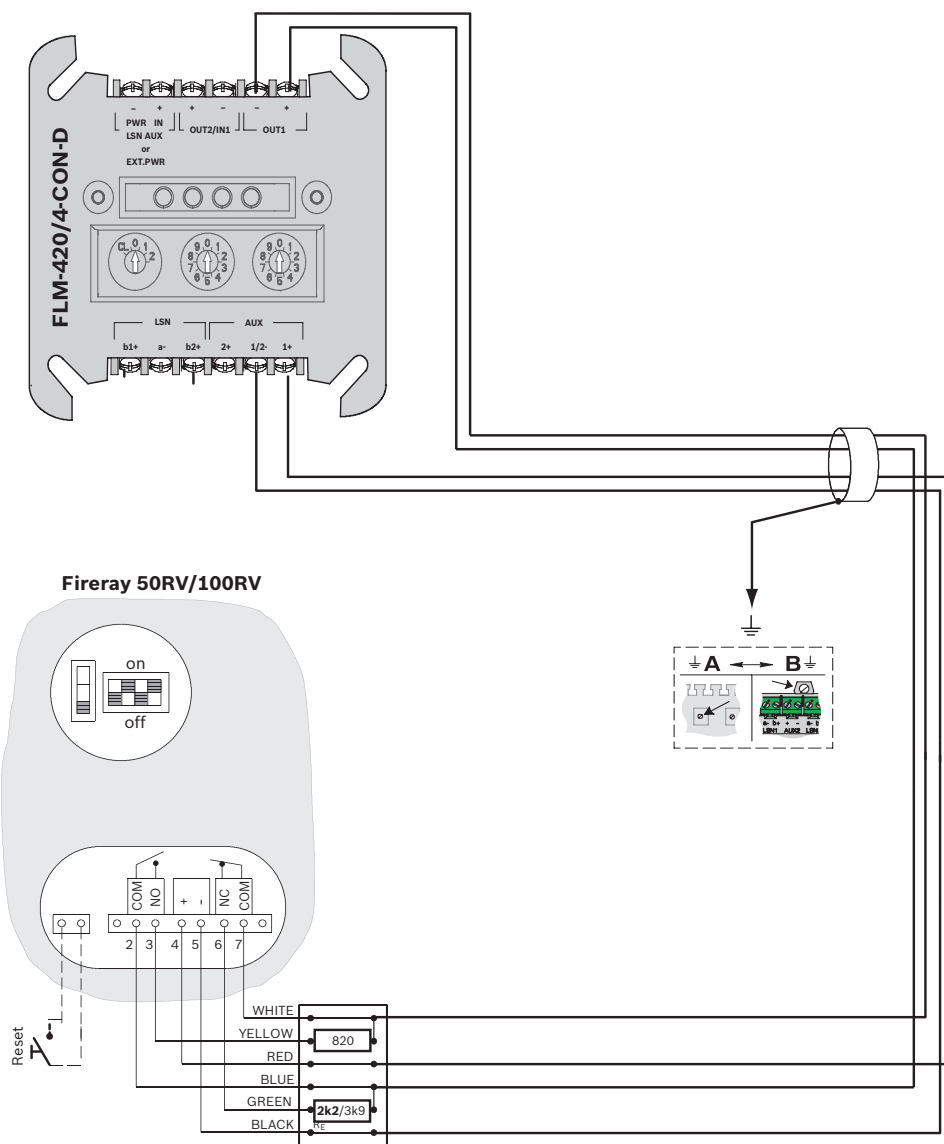


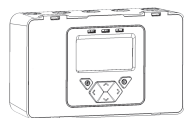
FCP-500





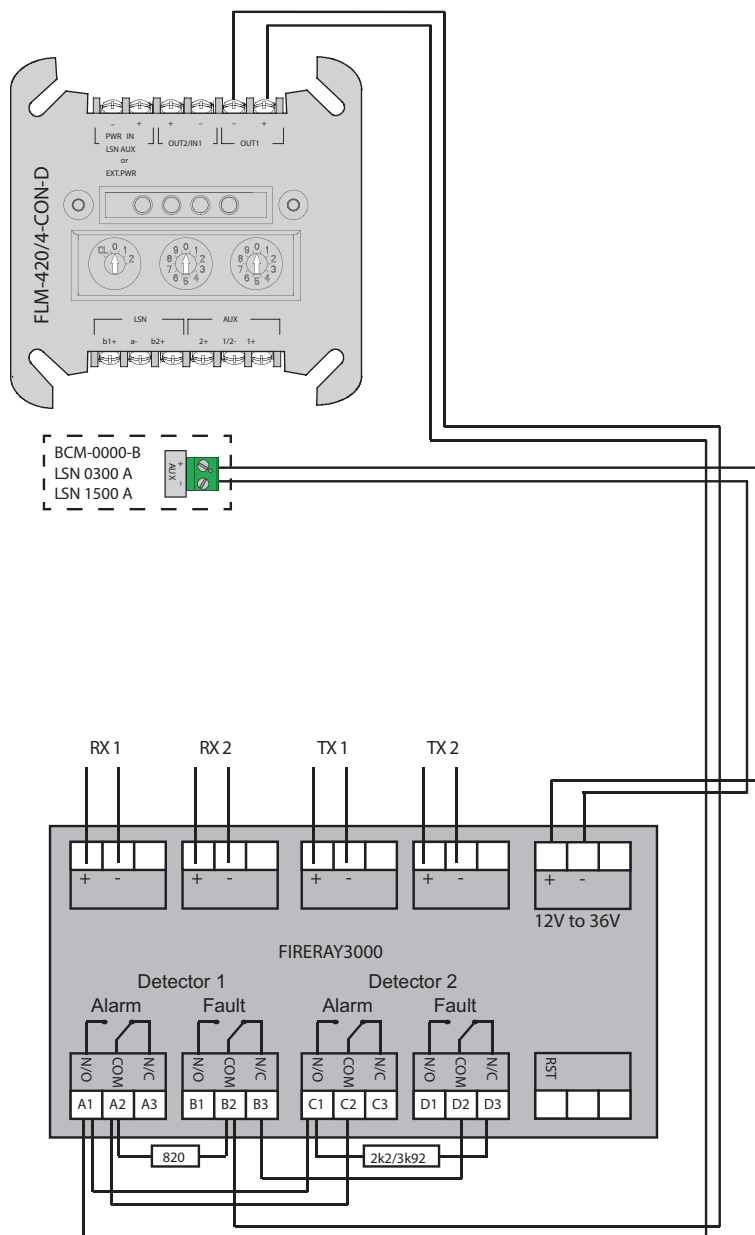
**Fireray 50RV
Fireray 100RV**

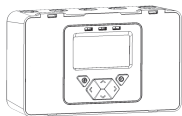




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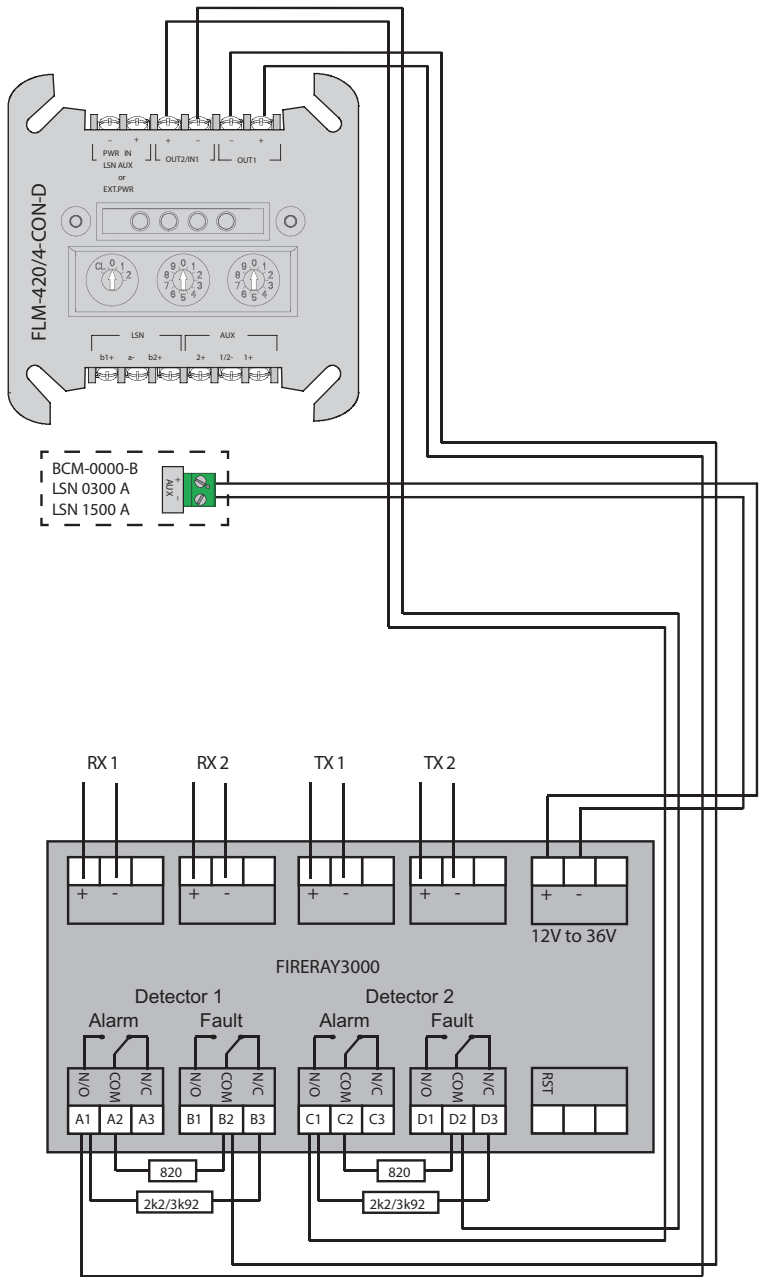
2 x





FIRERAY3000

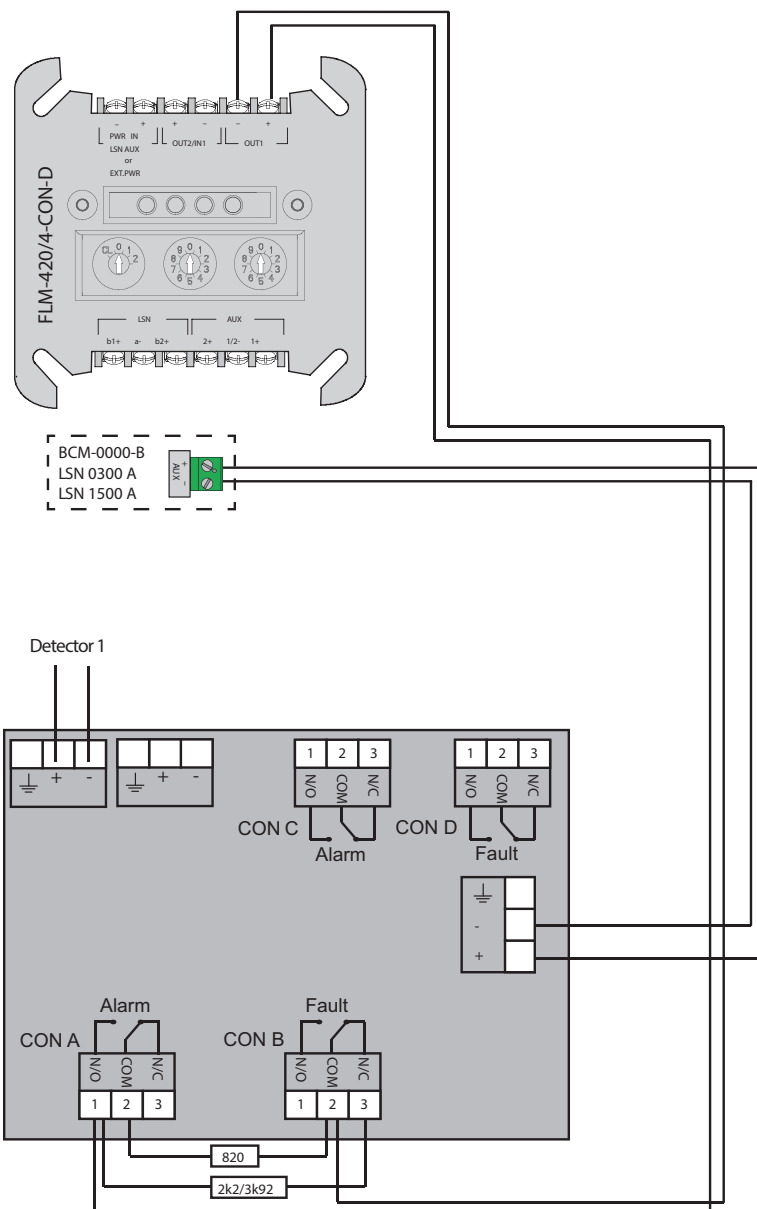
2 x 1+2





FIRERAY5000

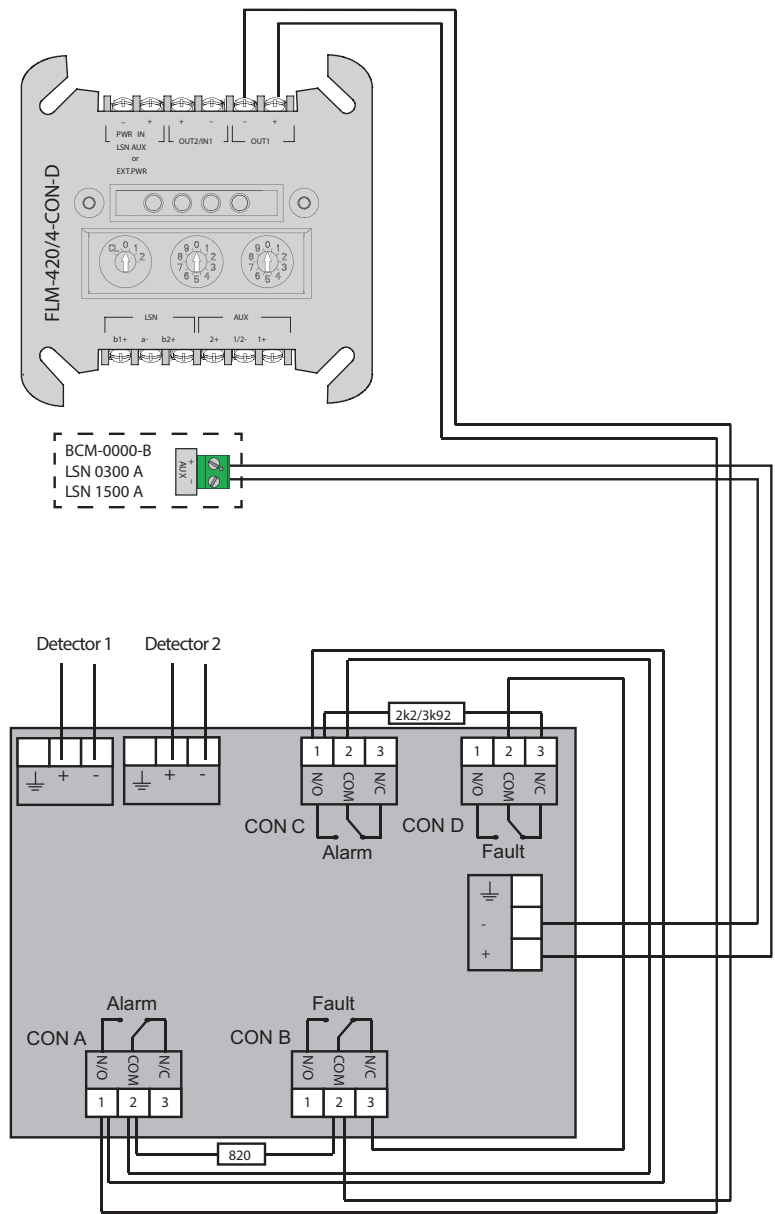
1 x





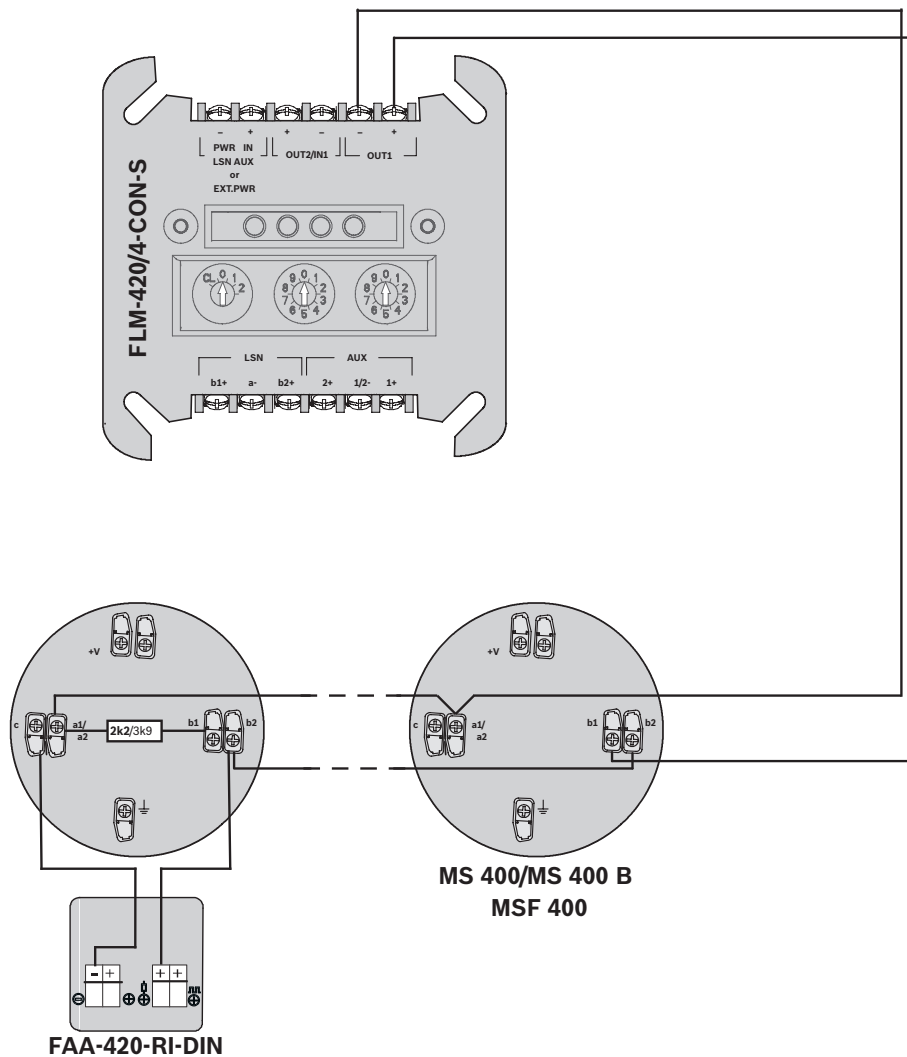
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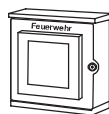
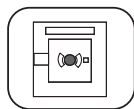
2 x OUT1



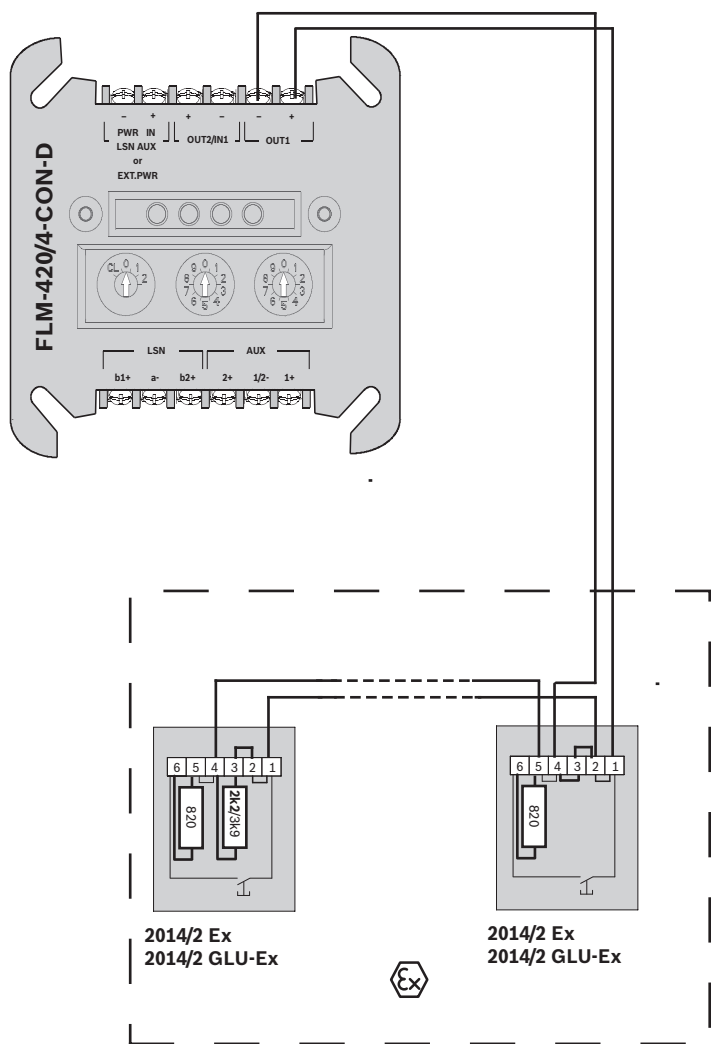
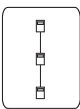


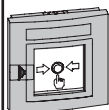
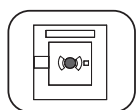
FAP-425-O/-O-R/-OT/-OT-R/-T-R
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 FCH-320-T320/-T320-R470/-T320-FSA
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 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



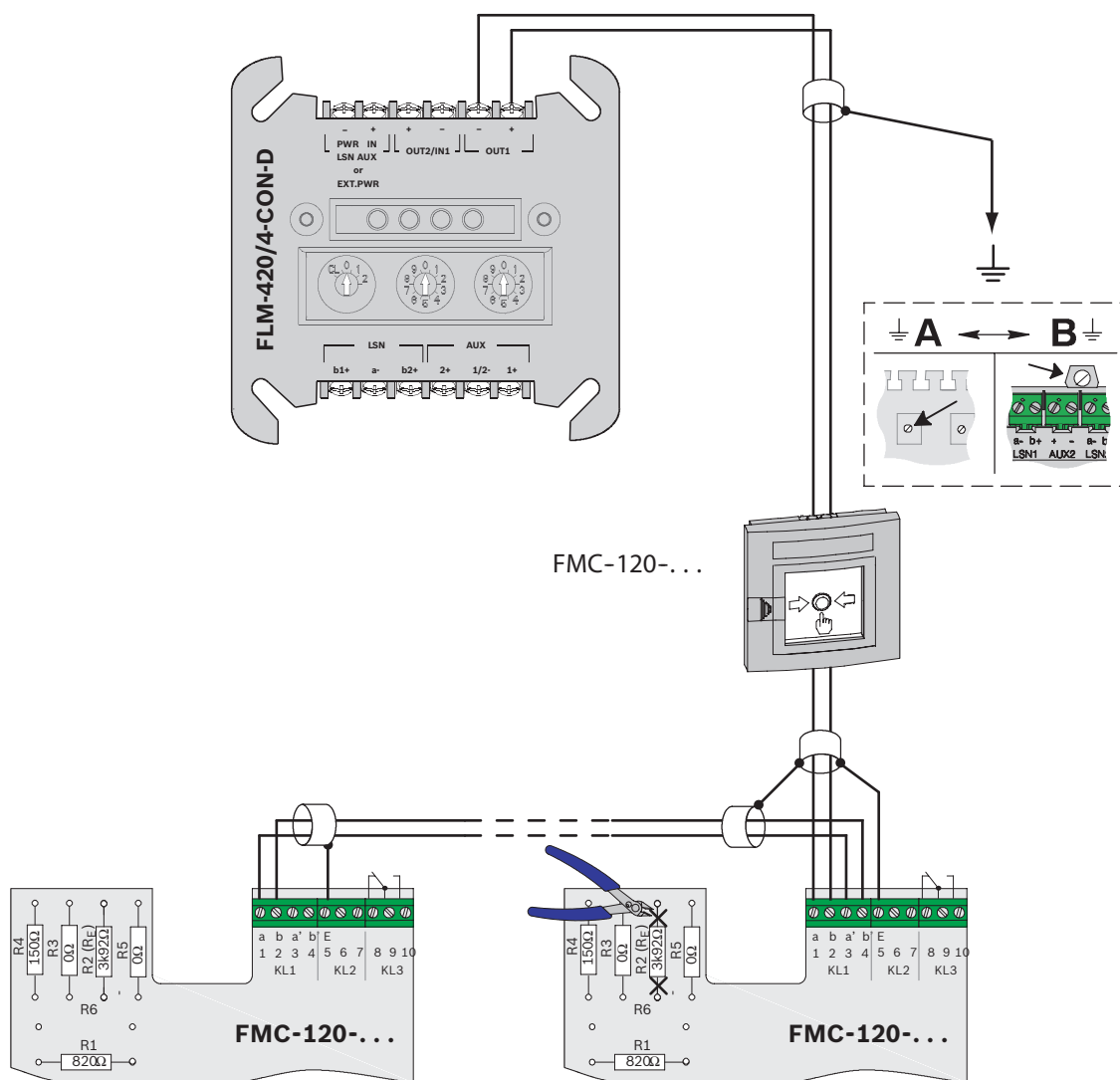
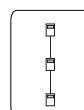


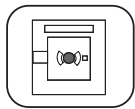
2014/2 Ex
2014/2 GLU-Ex



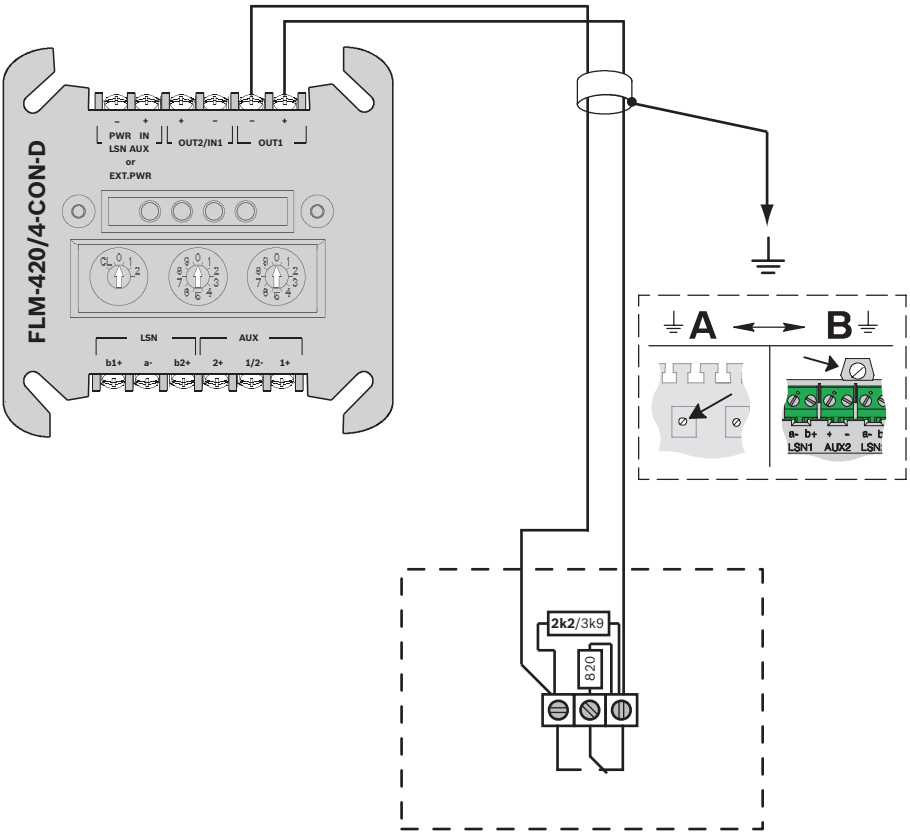
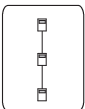


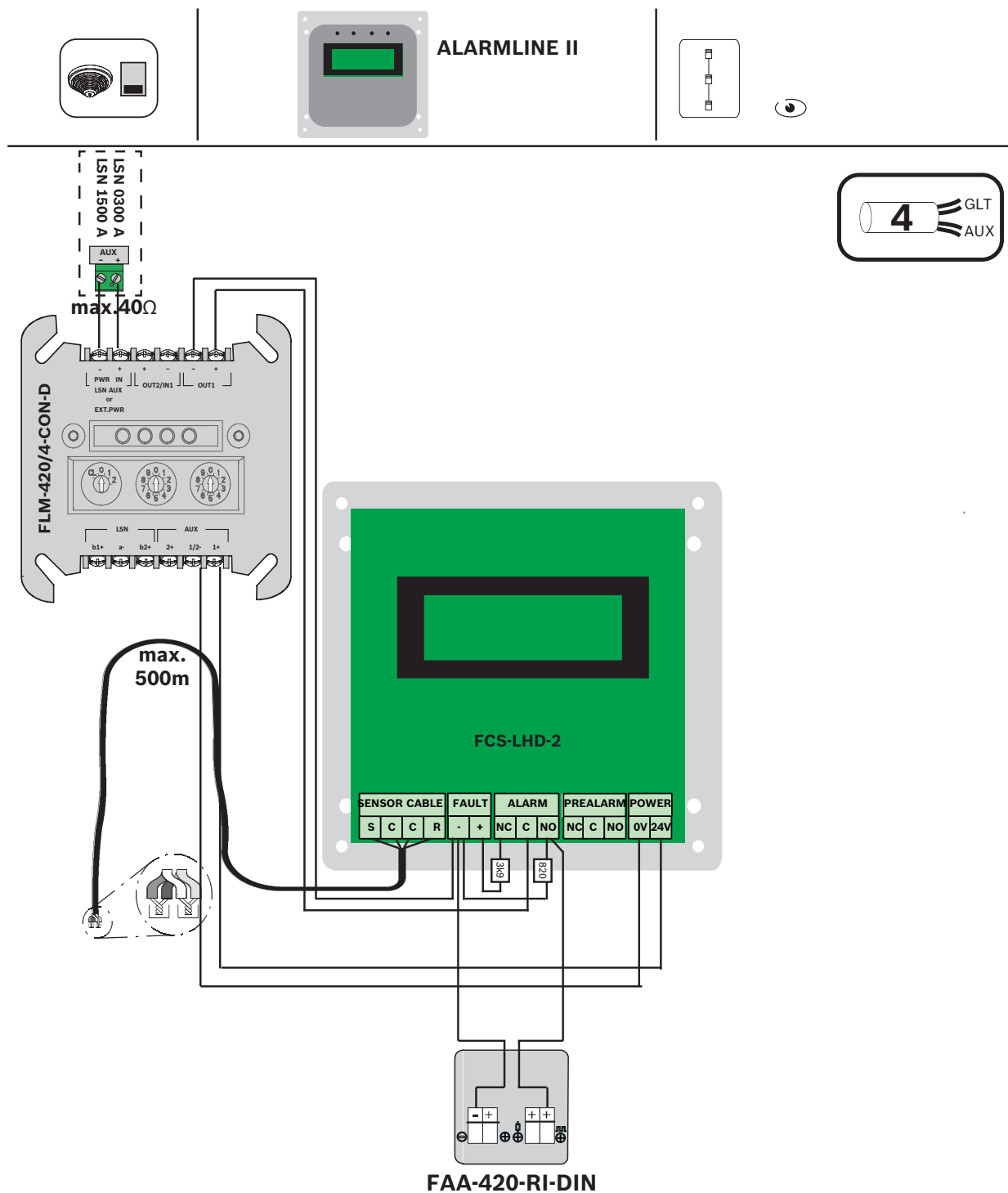
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FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B

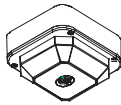




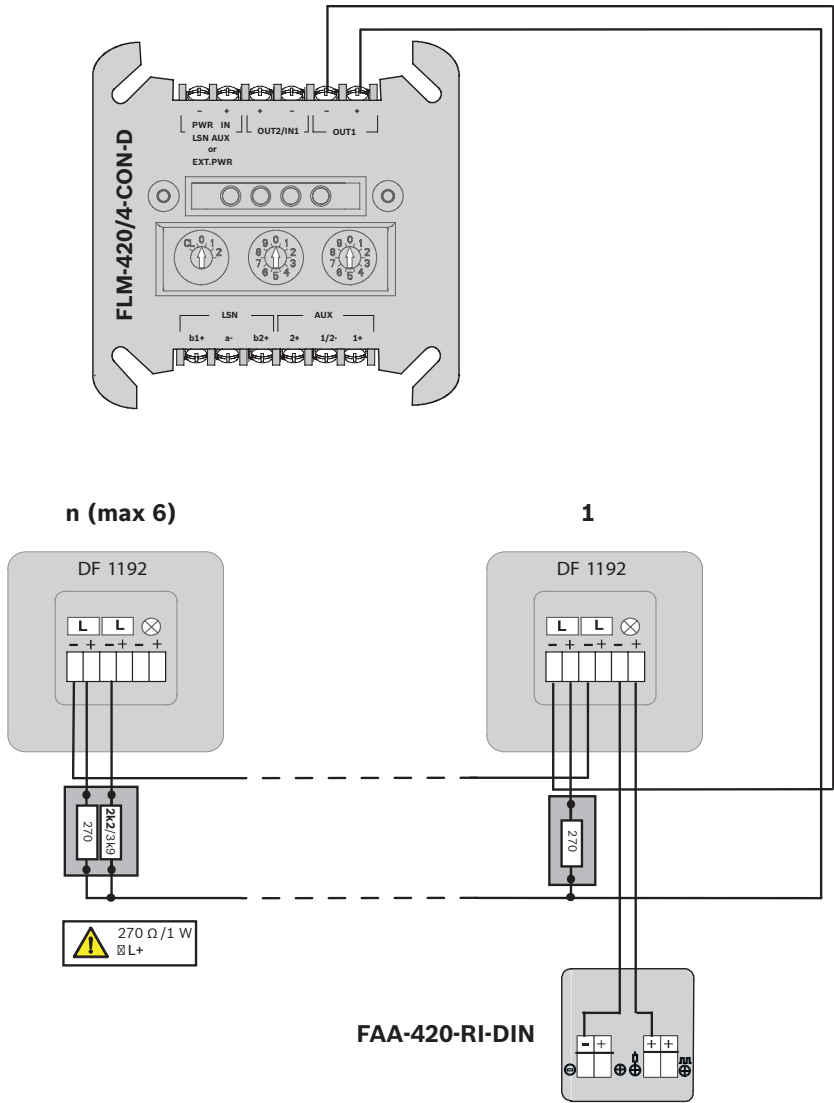
— / — NO





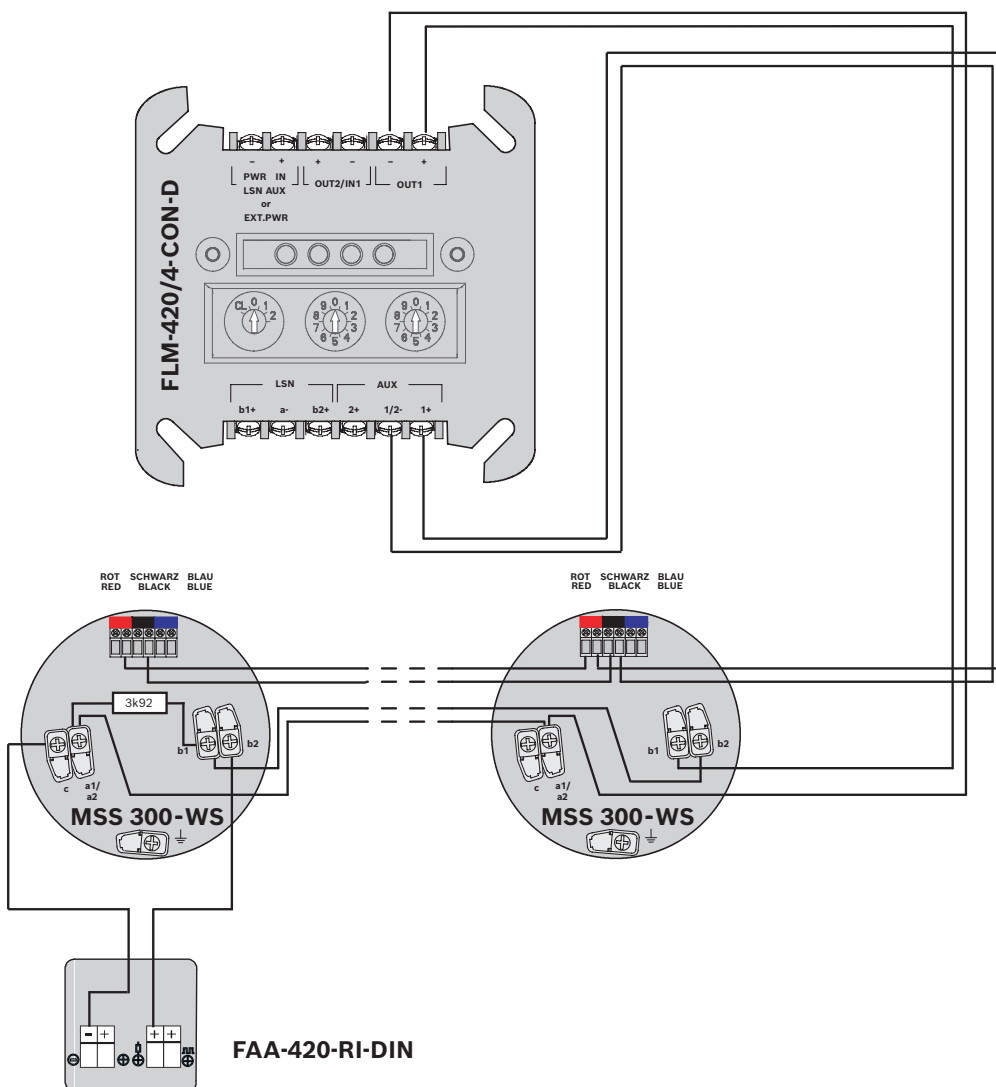


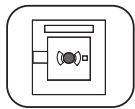
DF 1192



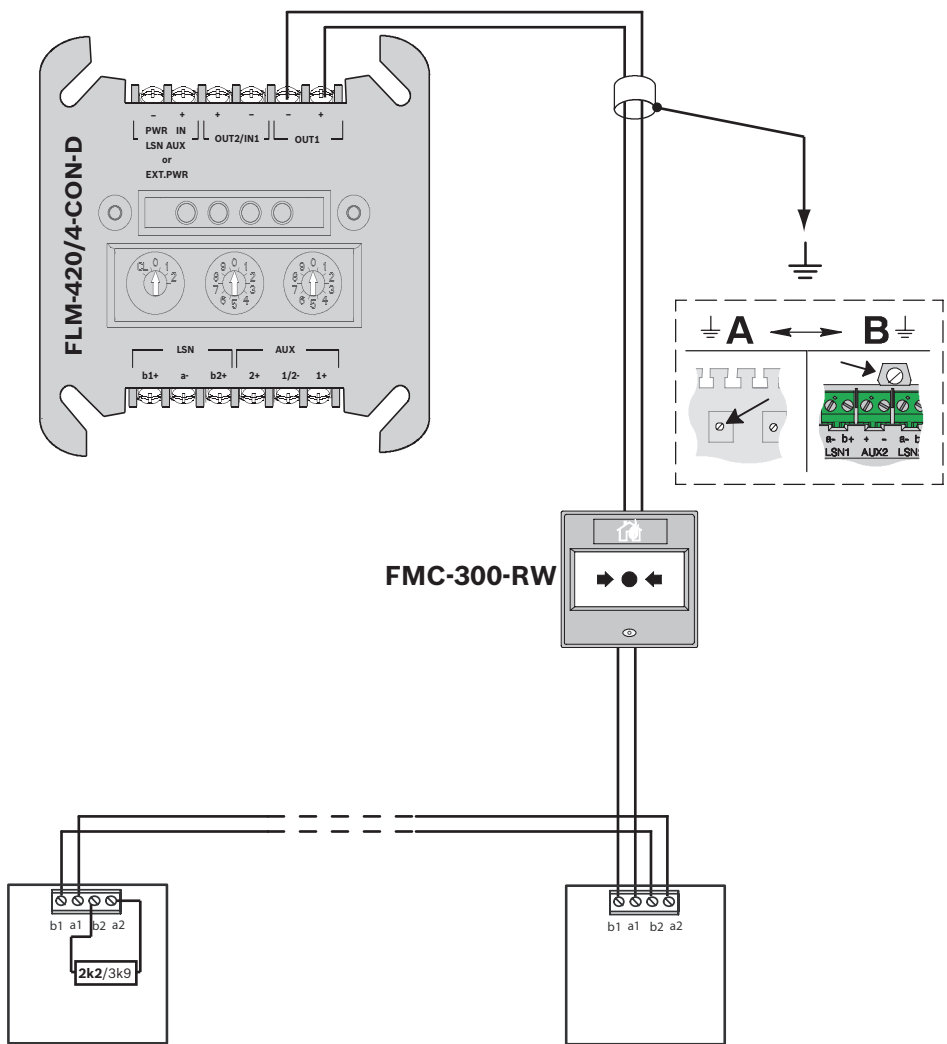
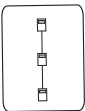


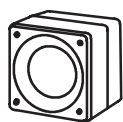
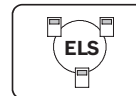
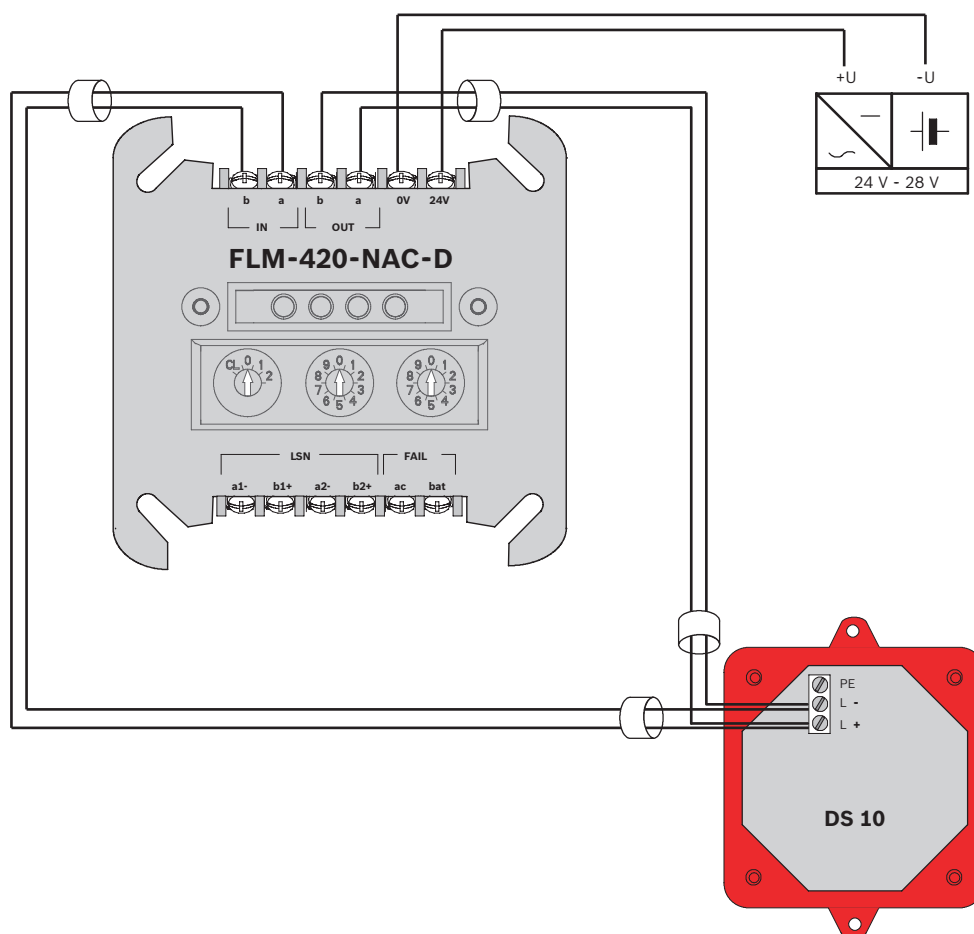
MSS 300-WS

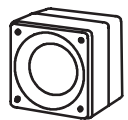




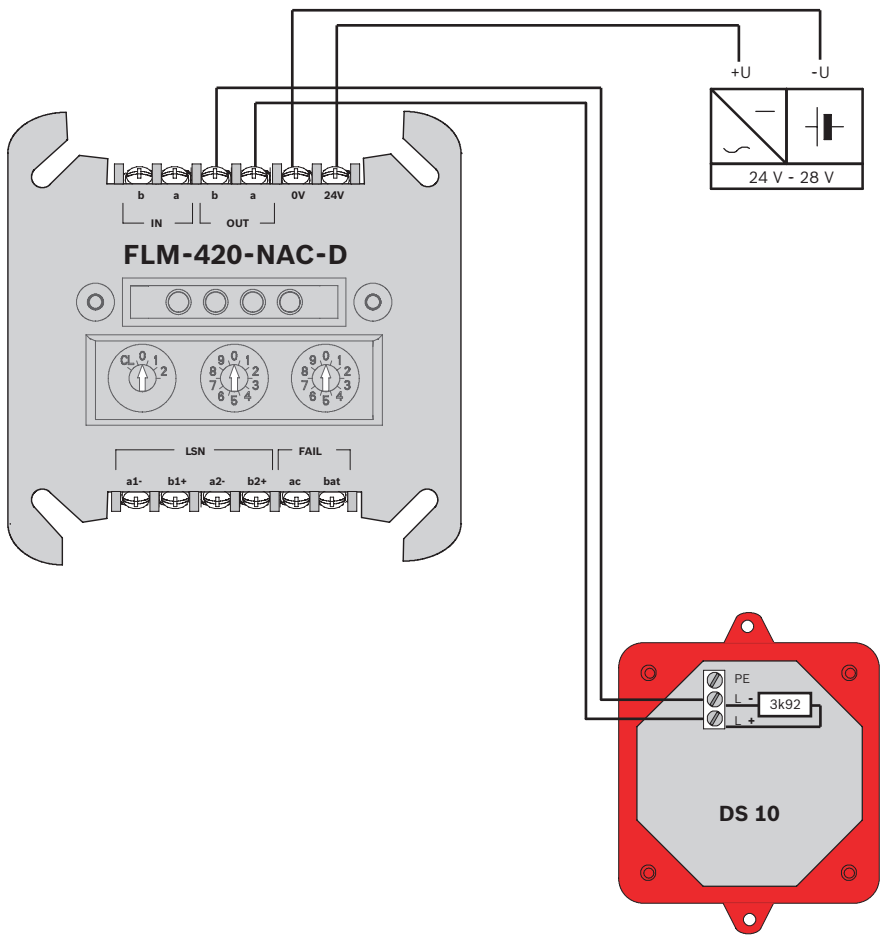
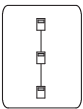
FMC-300-RW

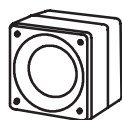
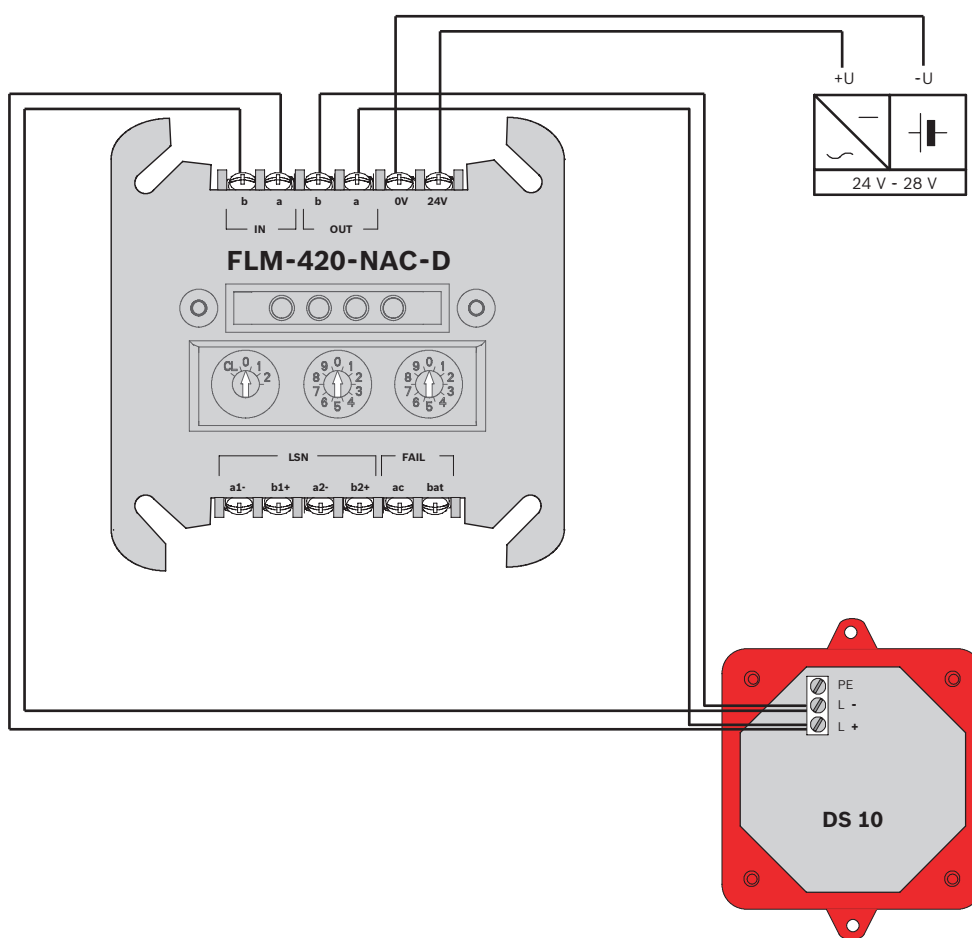
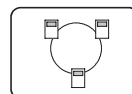


3.4.2 FLM-420-NAC-D/S**DS 10****VdS 2489**



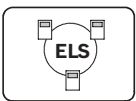
DS 10



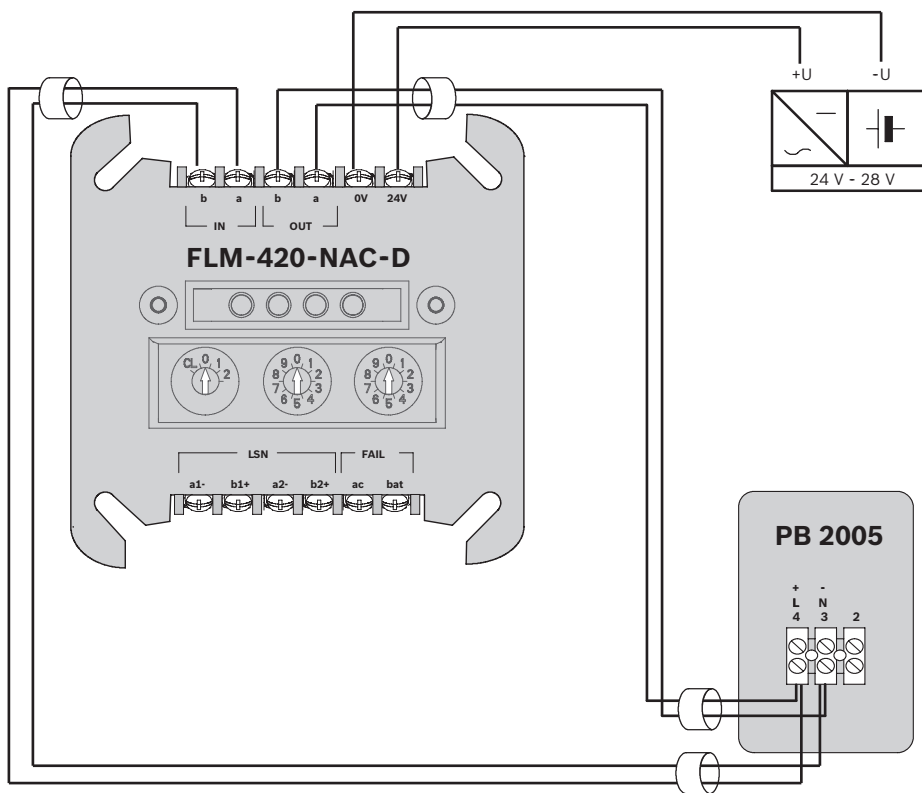
**DS 10**

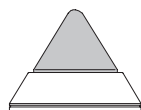
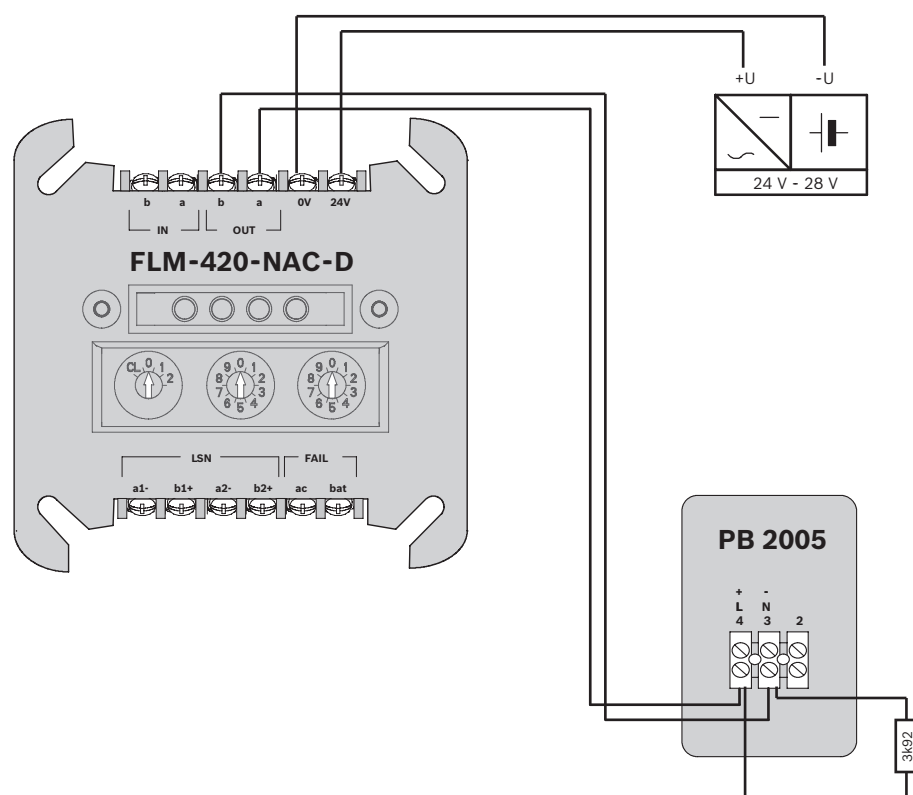
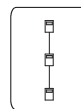


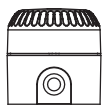
PB 2005



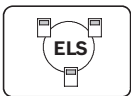
VdS 2489



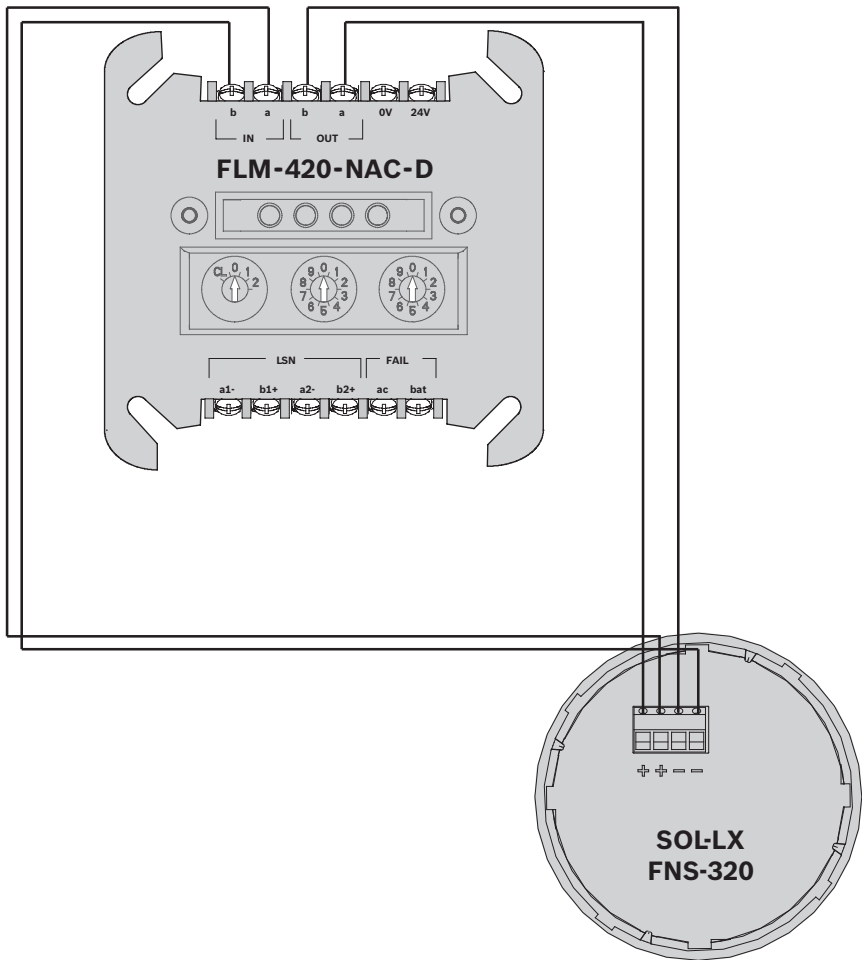
**PB 2005**



**SOL-LX
FNS-320**

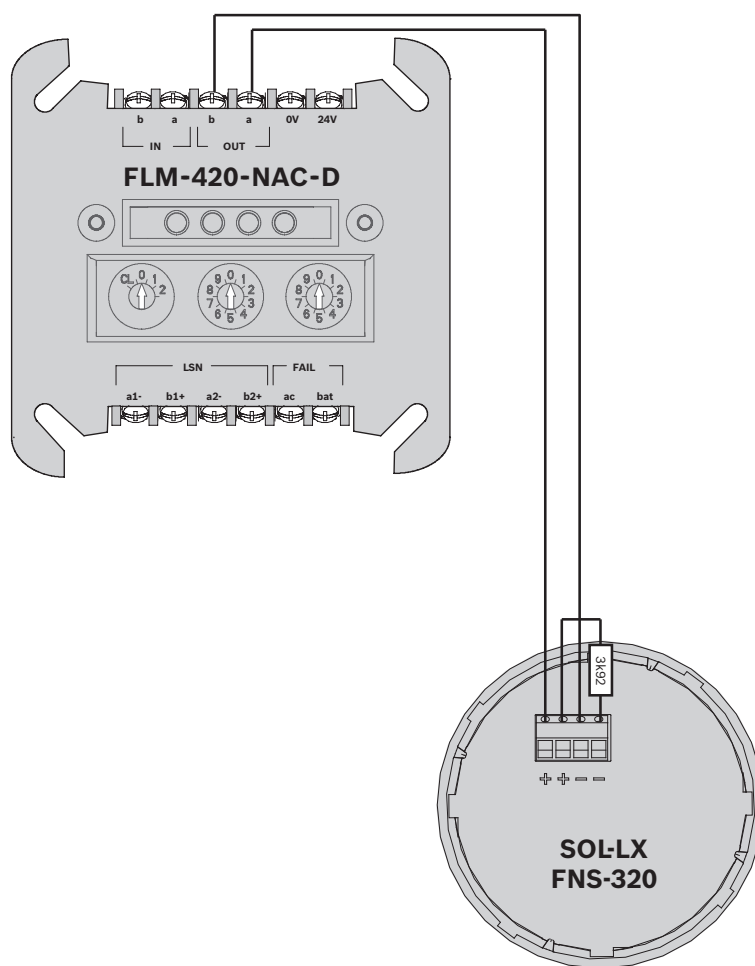
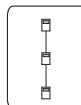


VdS 2489



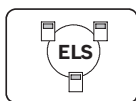


**SOL-LX
FNS-320**

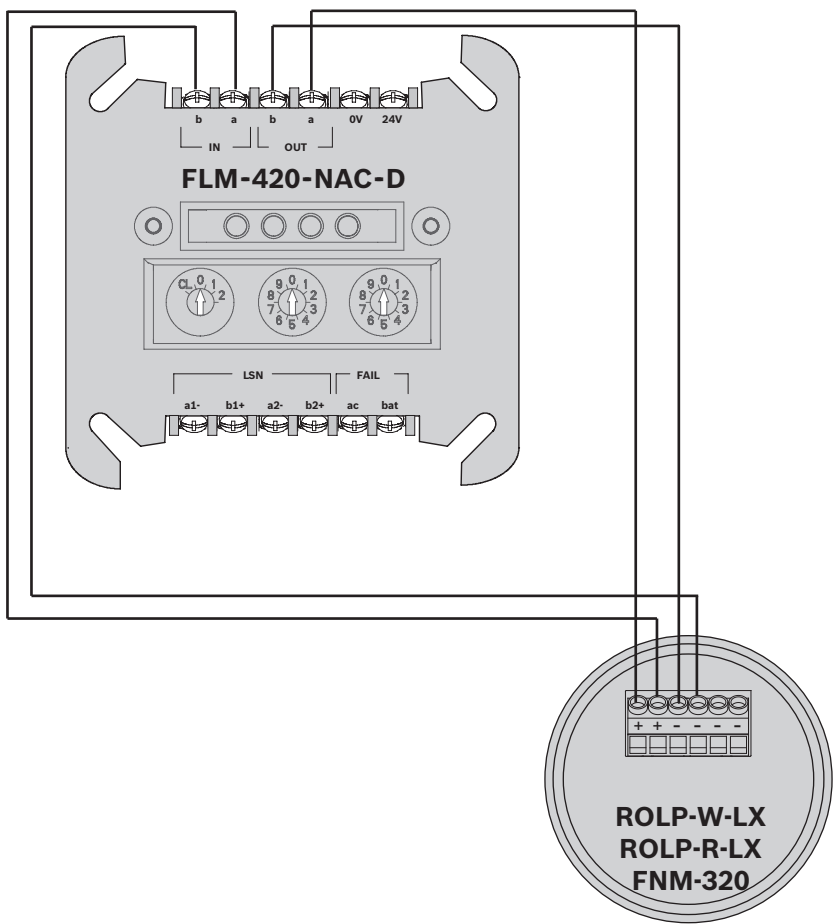


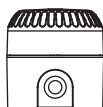


ROLP-W-LX
ROLP-R-LX
FNM-320

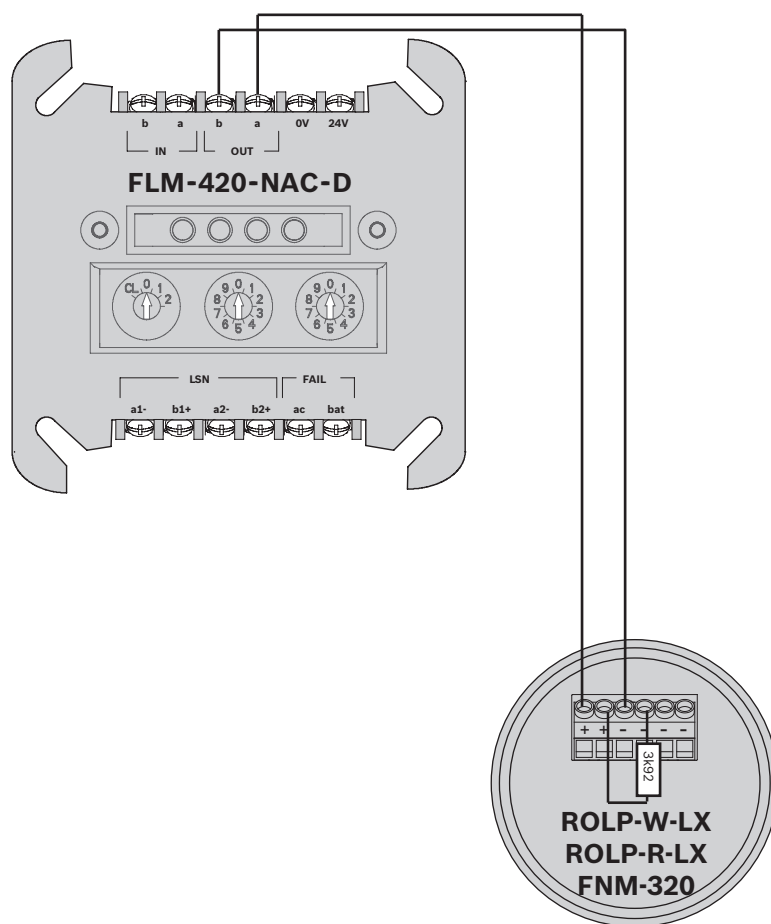
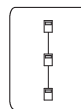


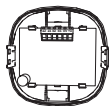
VdS 2489



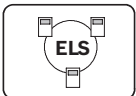


ROLP-W-LX
ROLP-R-LX
FNM-320

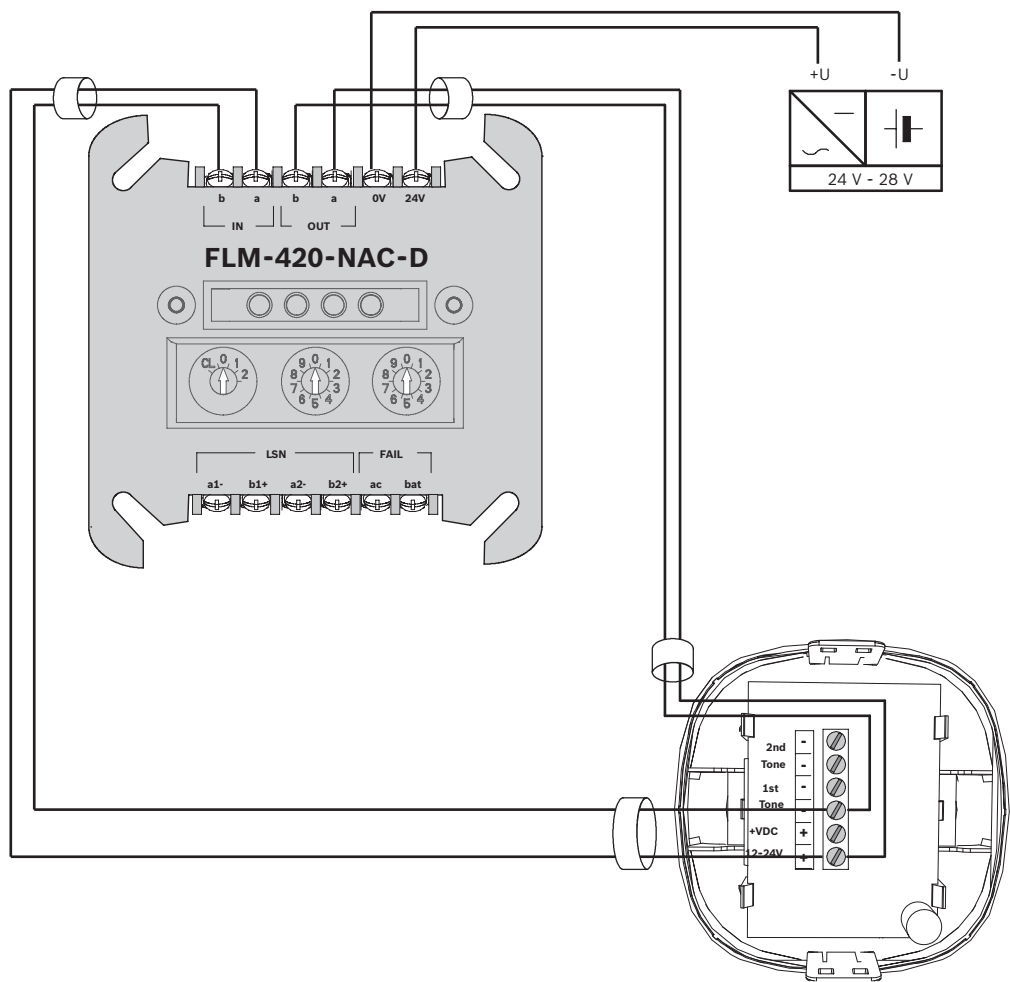


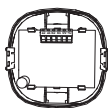


FNM-320V-A / -B

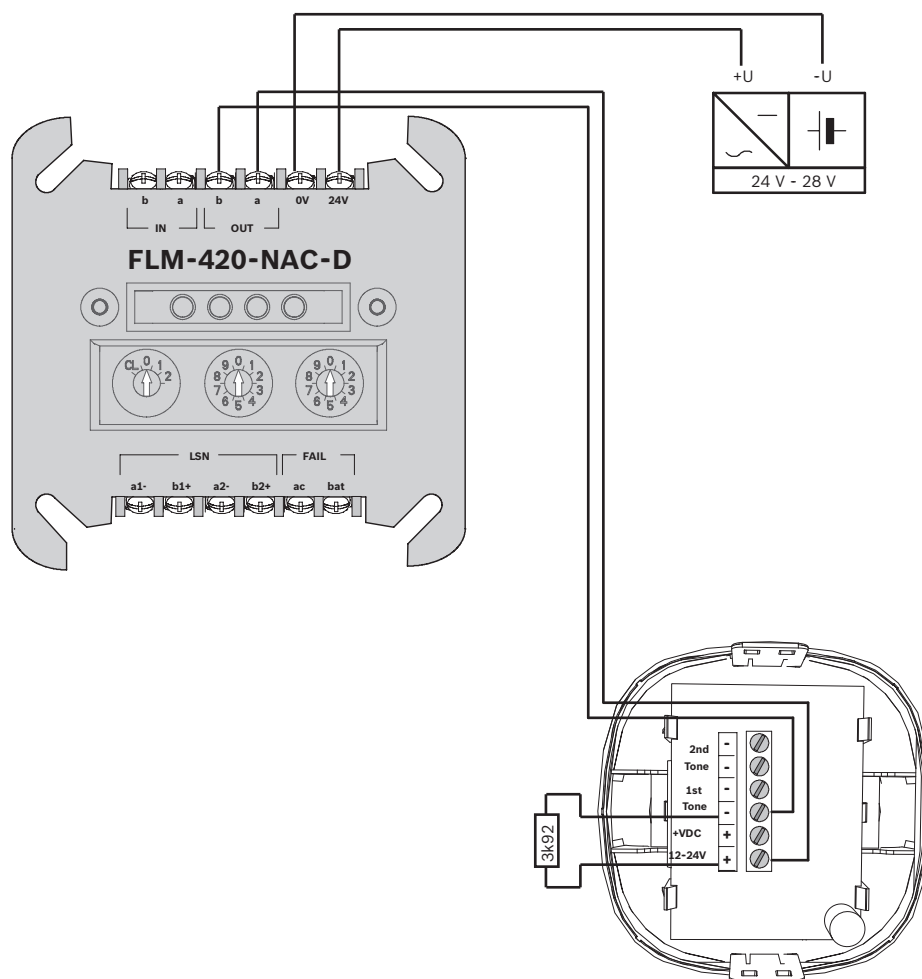
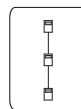


VdS 2489



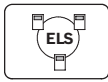


FNM-320V-A / -B

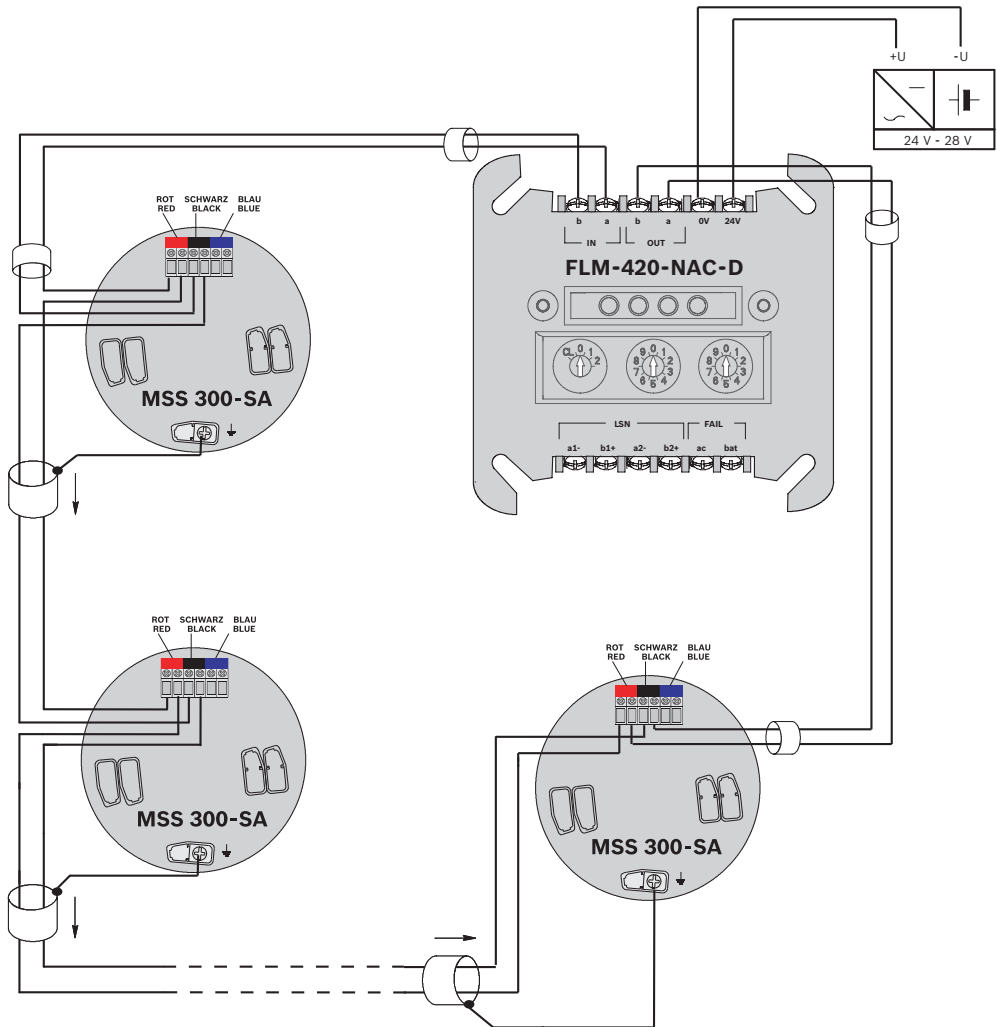




MSS 300-SA

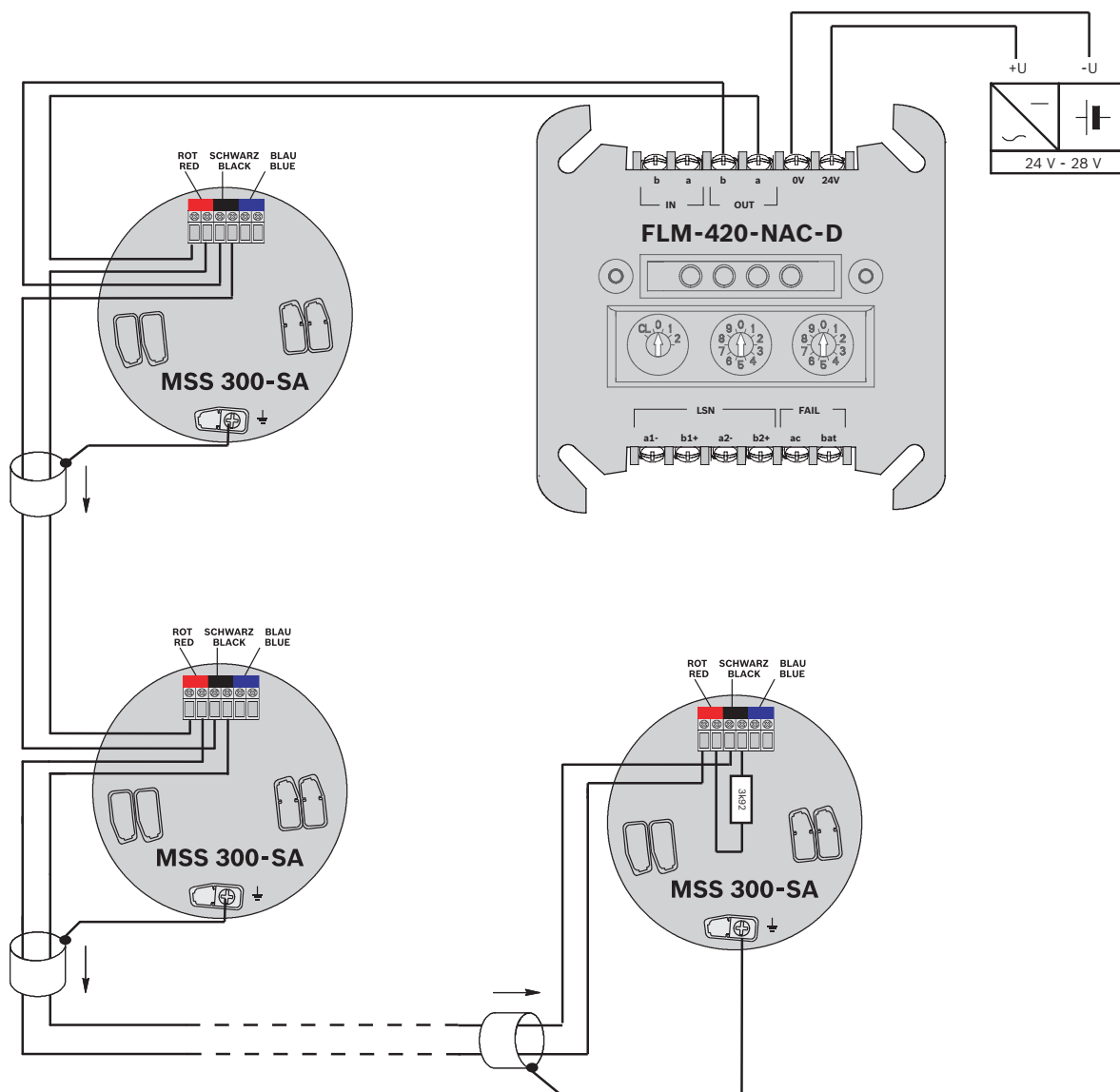
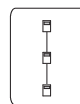


VdS 2489





MSS 300-SA

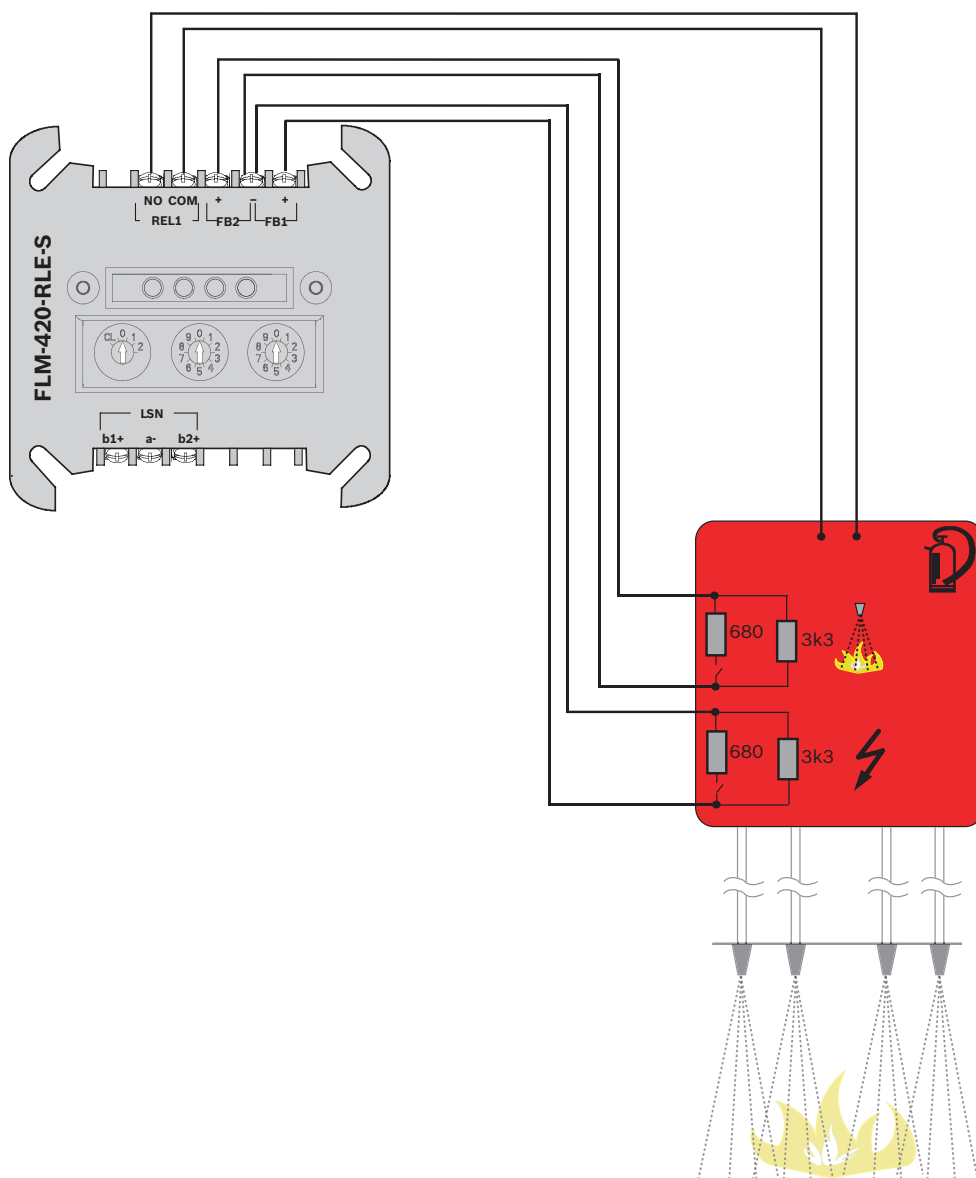


3.4.3

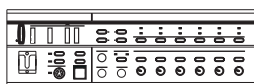
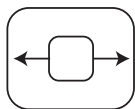
FLM-420-RLE-S



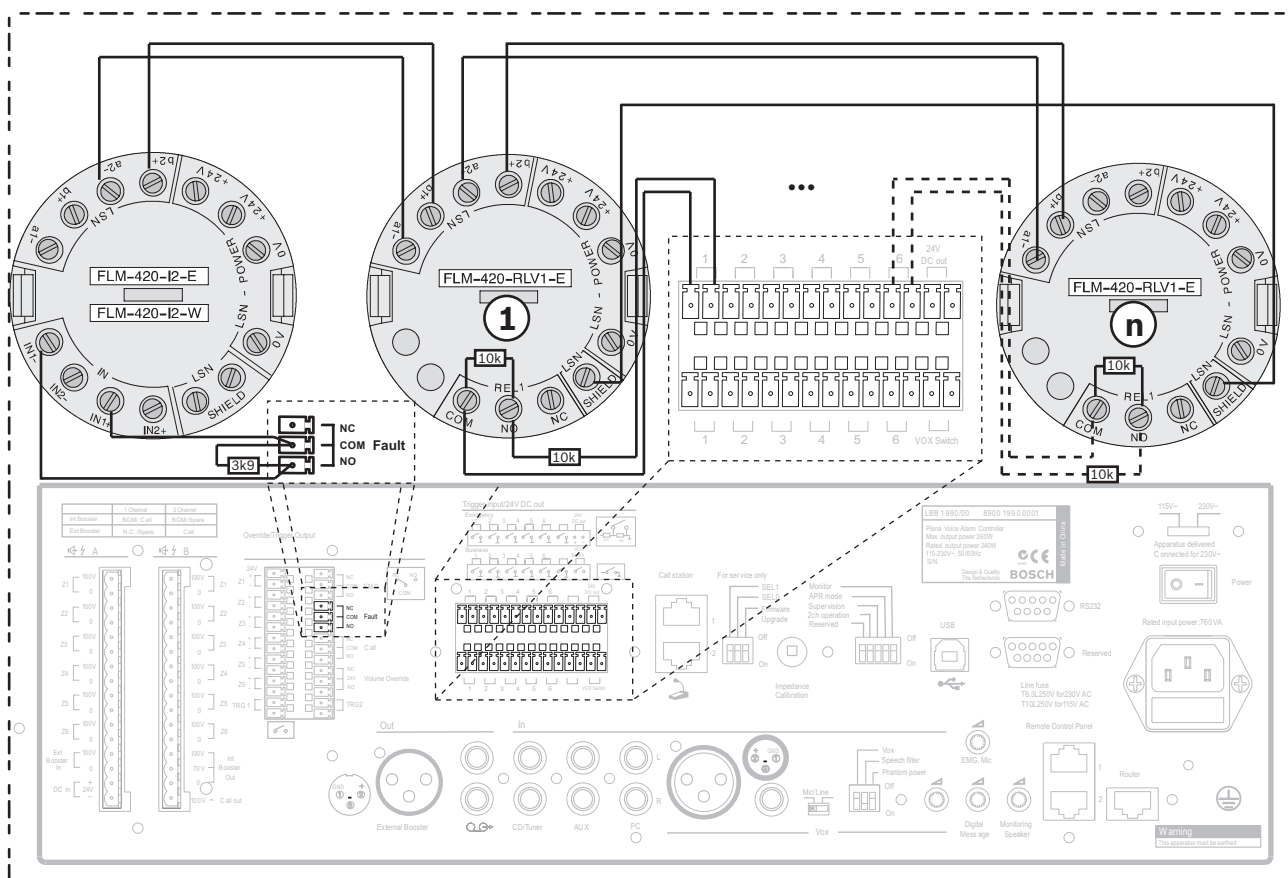
VdS 2496:2005-09



3.4.4 FLM-420-RLV1-E

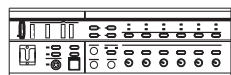
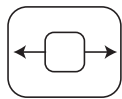


Plena

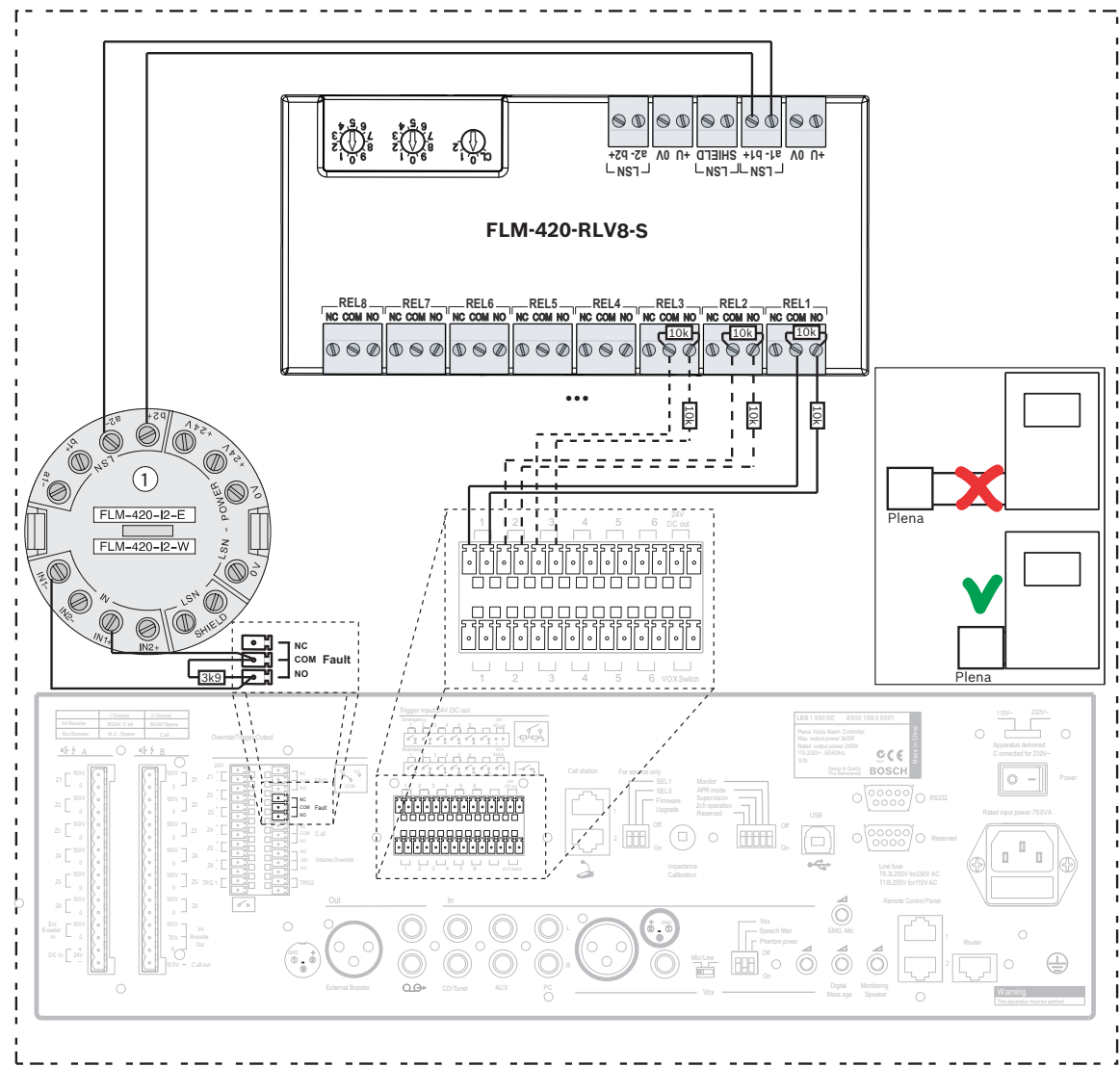
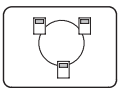


3.4.5

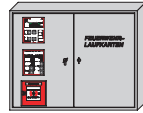
FLM-420-RLV8-S



Plena



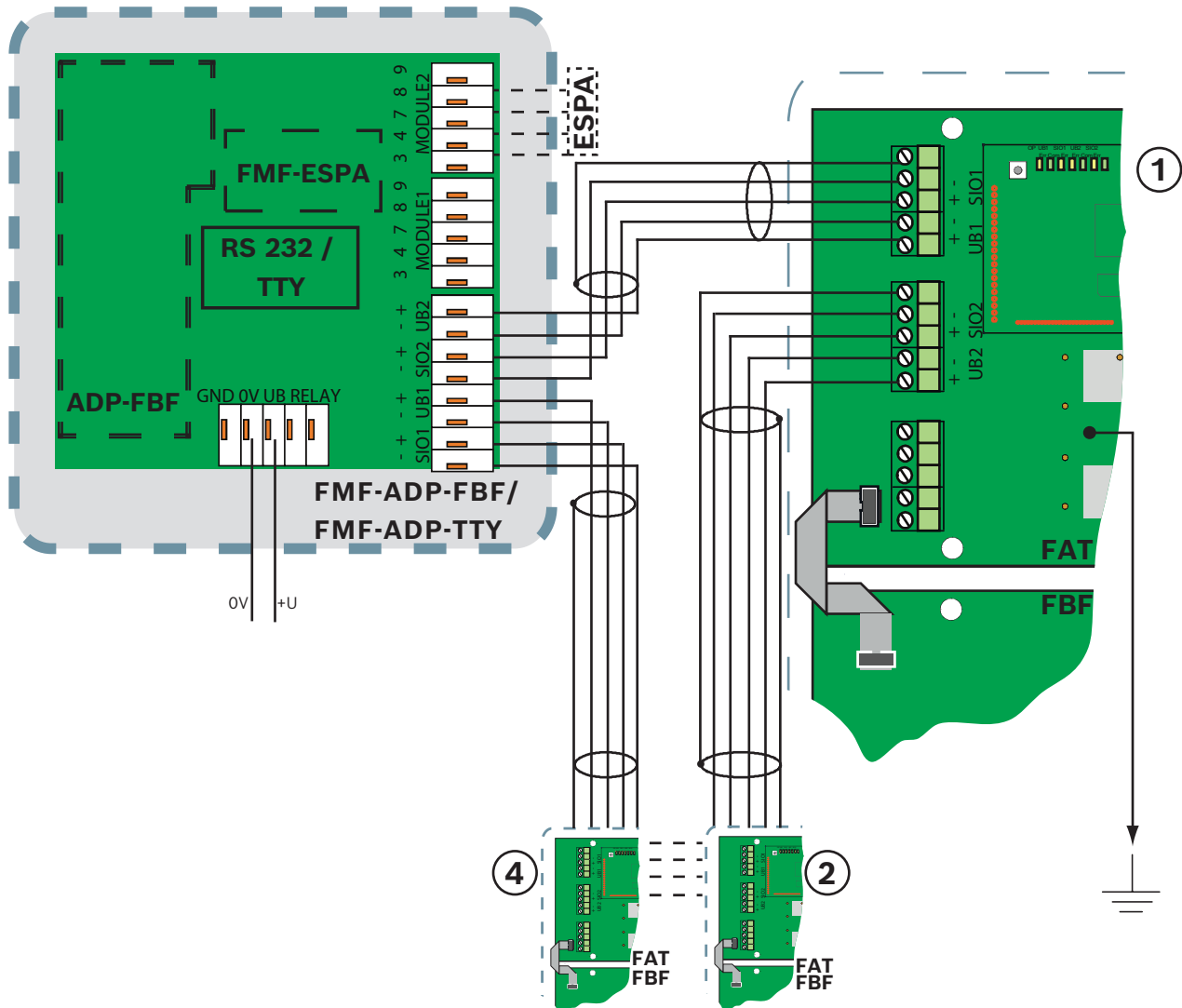
3.4.6

FMF-ADP-FBF/FMF-ADP-TTY

FAT4000 FBF4000 ADP4000

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

ELS VdS 2489

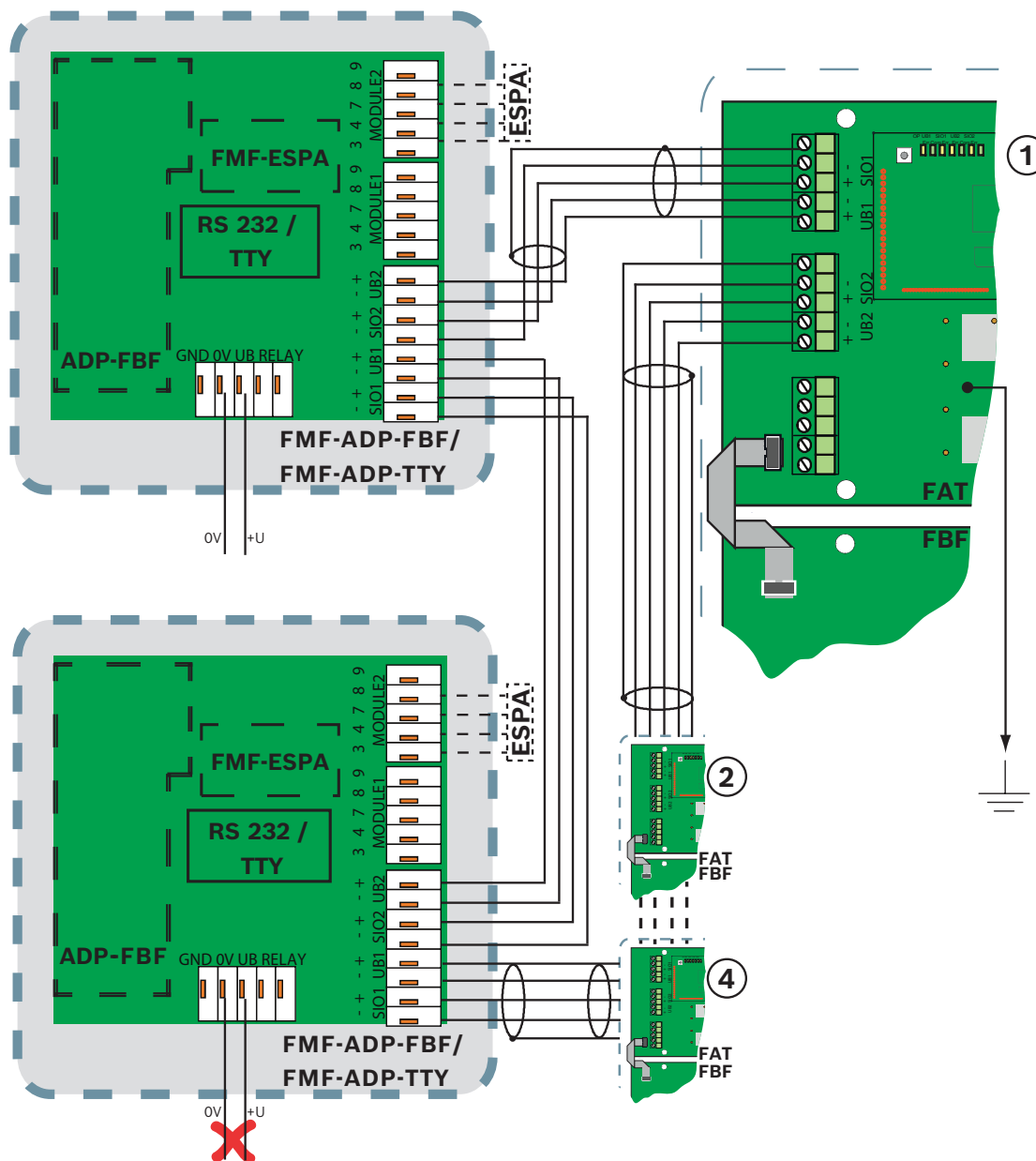




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



3.5

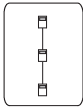
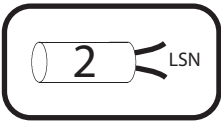
EOL



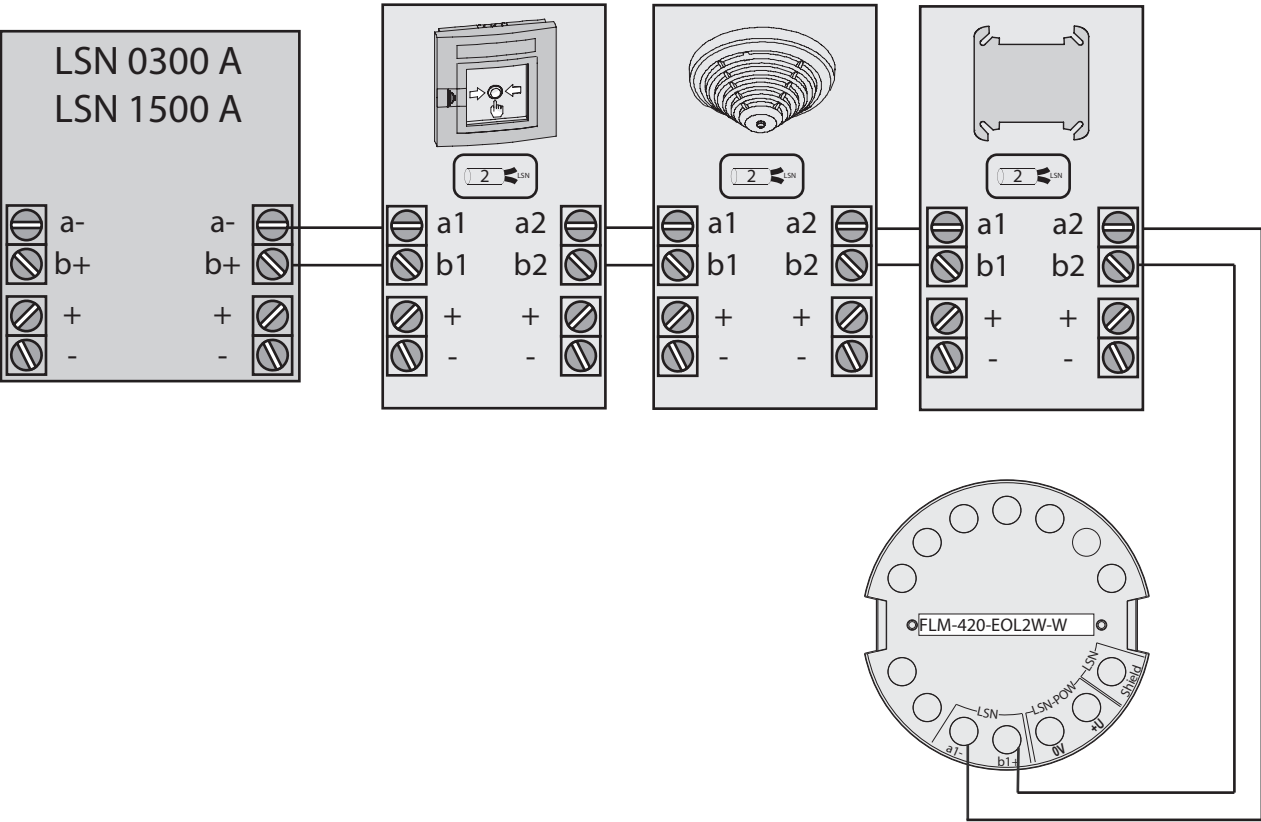
LSN 0300 A, pagina 182

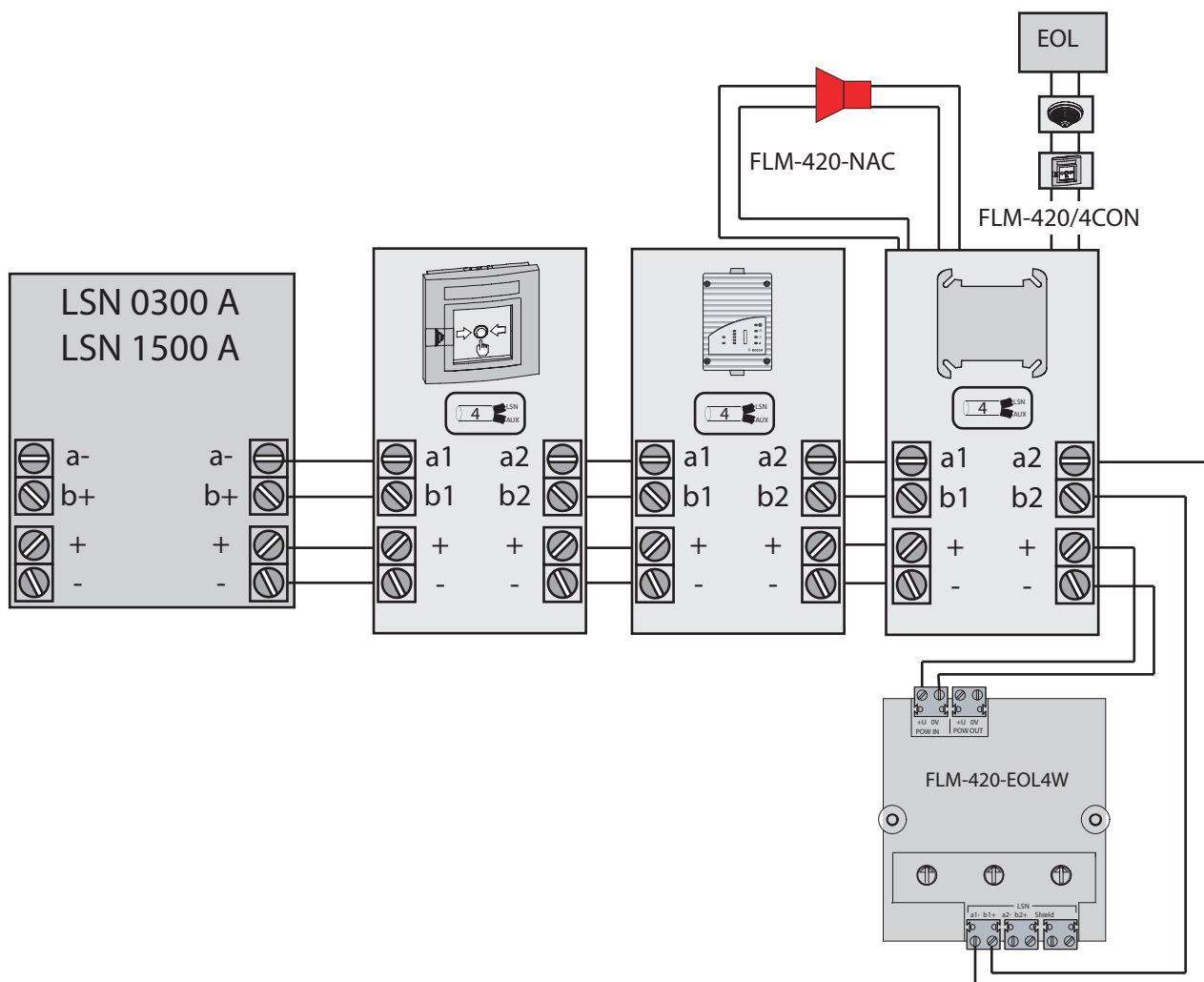
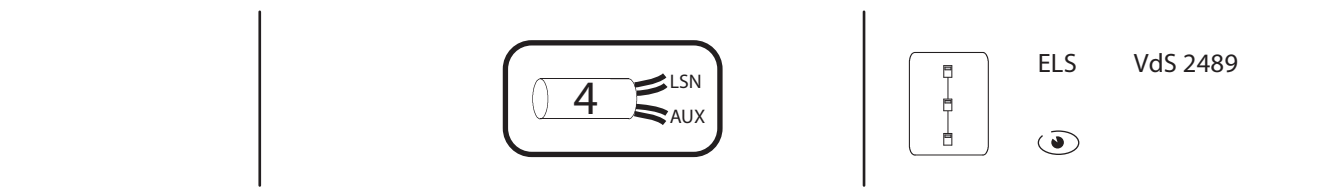
FLM-420/4-CON-S/D, pagina 224

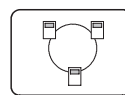
3.5.1 LSN 0300 A



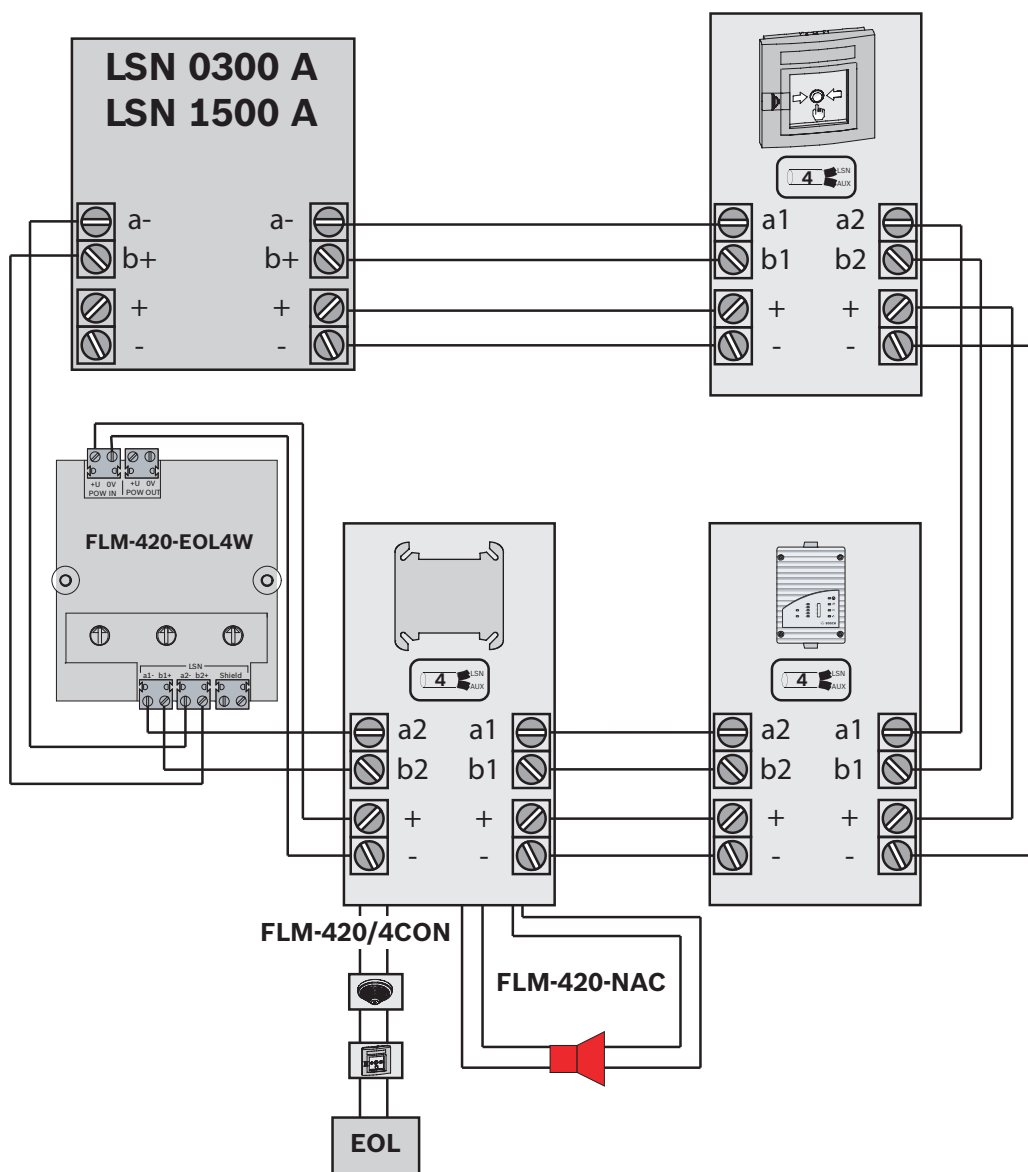
ELS VdS 2489







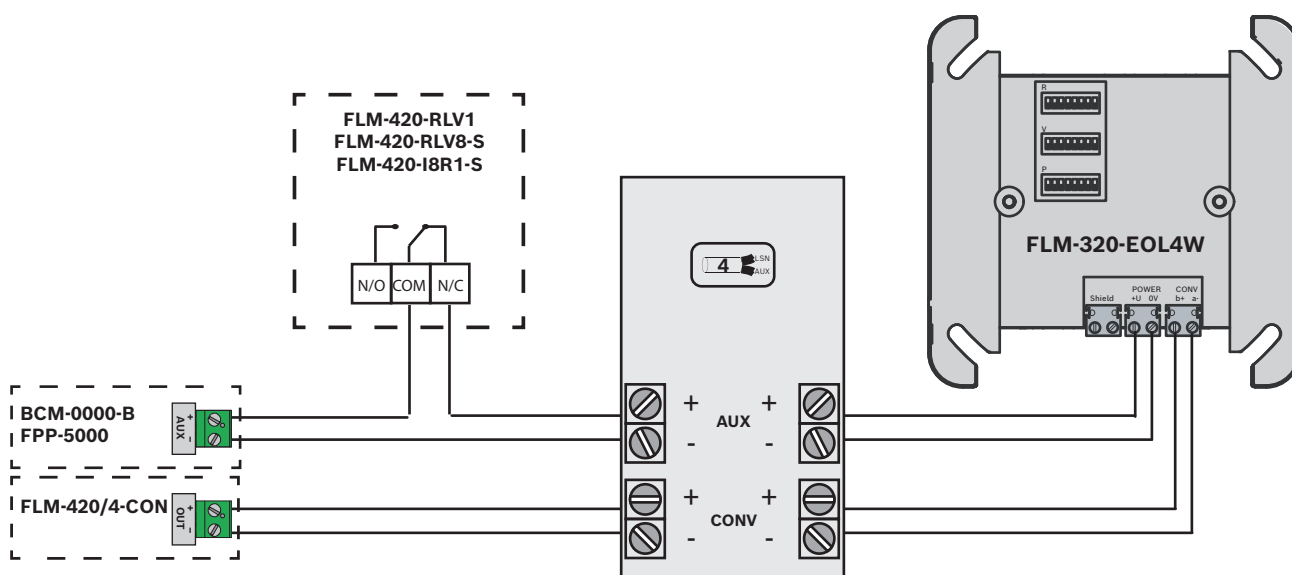
ELS VdS 2489

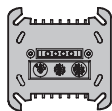
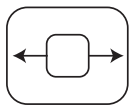




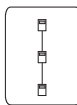
Reset action

ELS VdS 2489

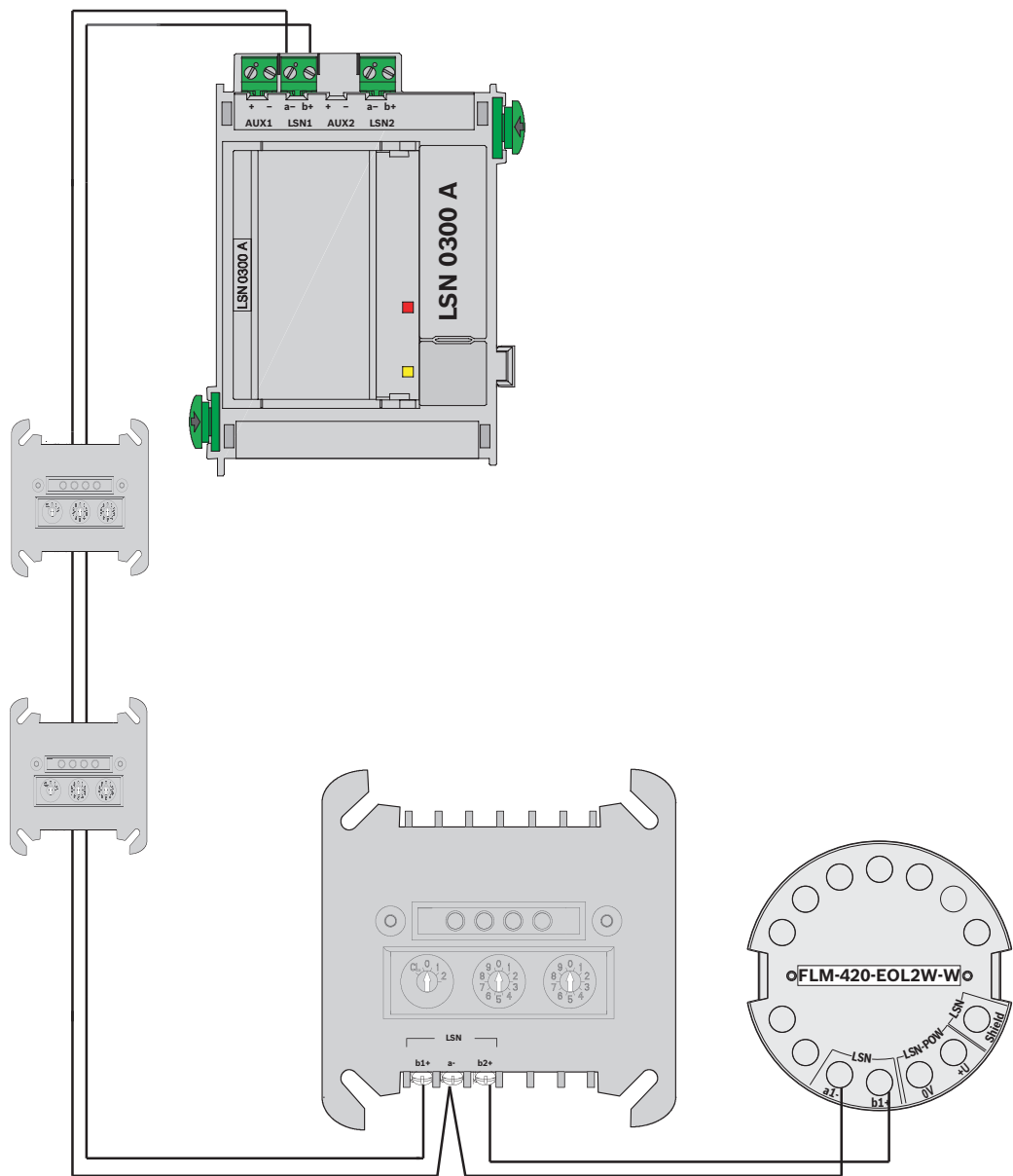


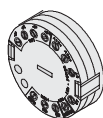
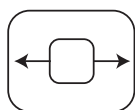


FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

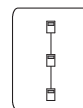


ELS VdS 2489

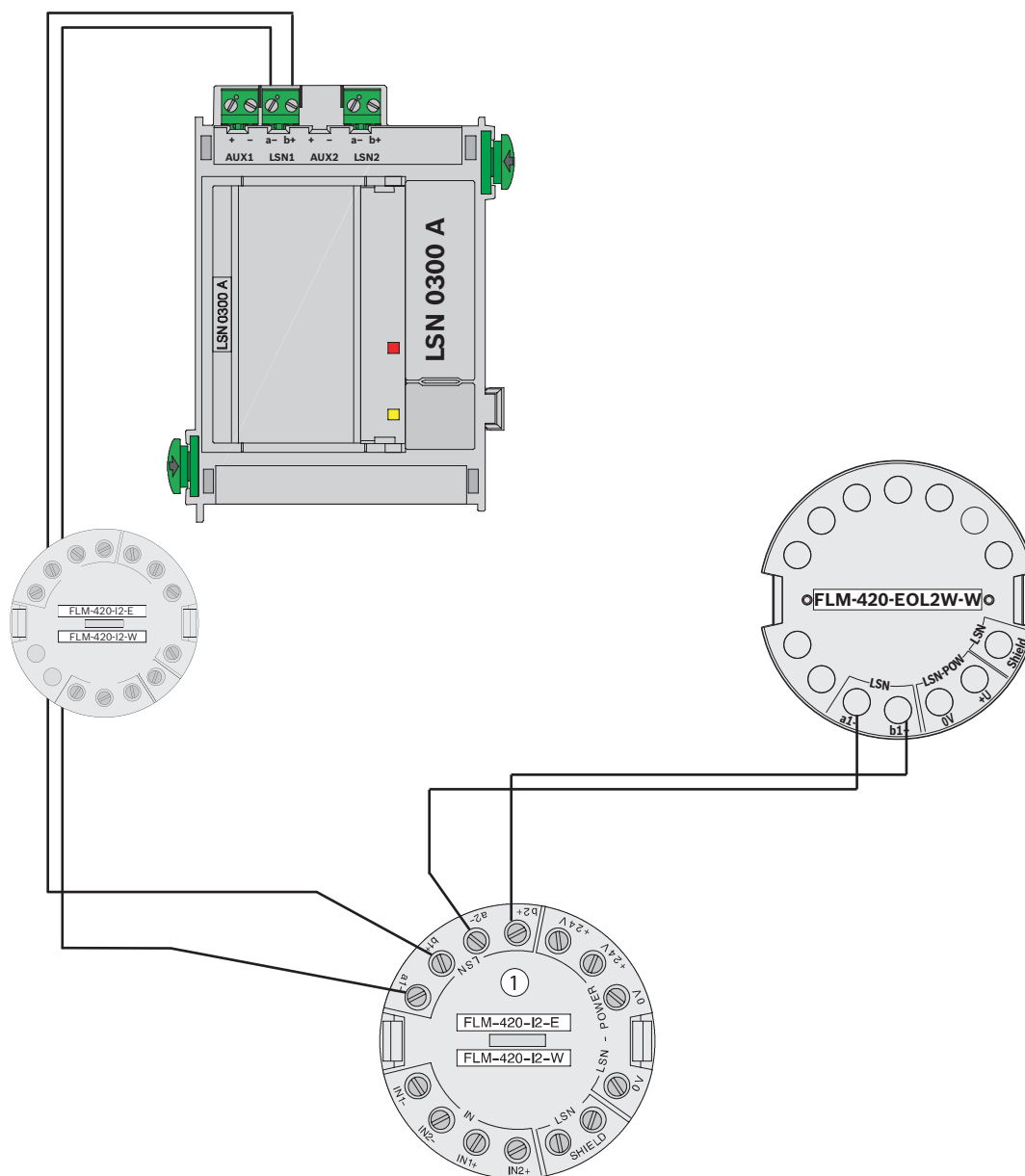


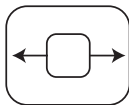


FLM-420-I2-E/W

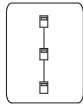


ELS VdS 2489

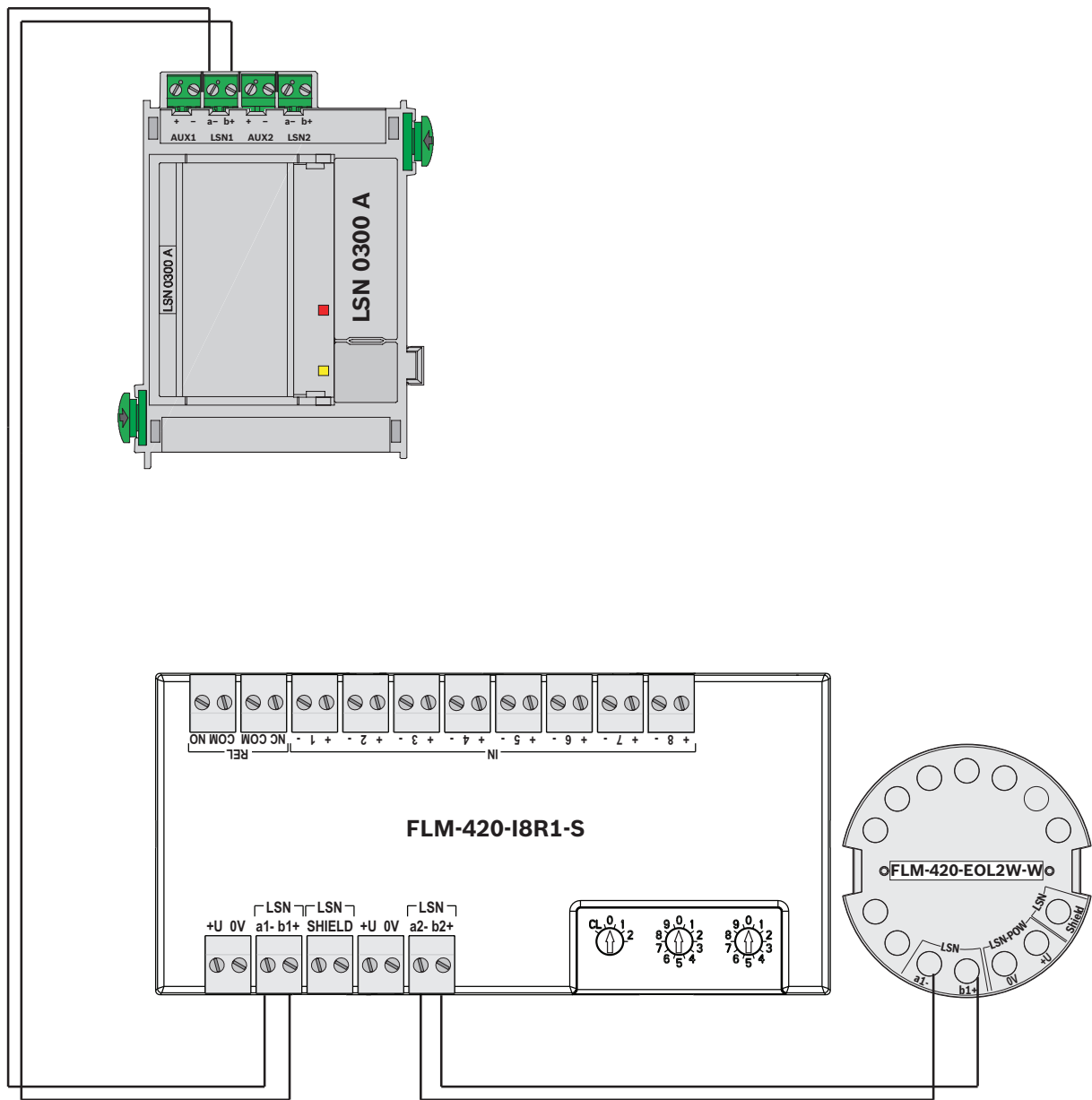


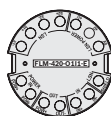
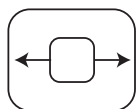


FLM-420-I8R1-S

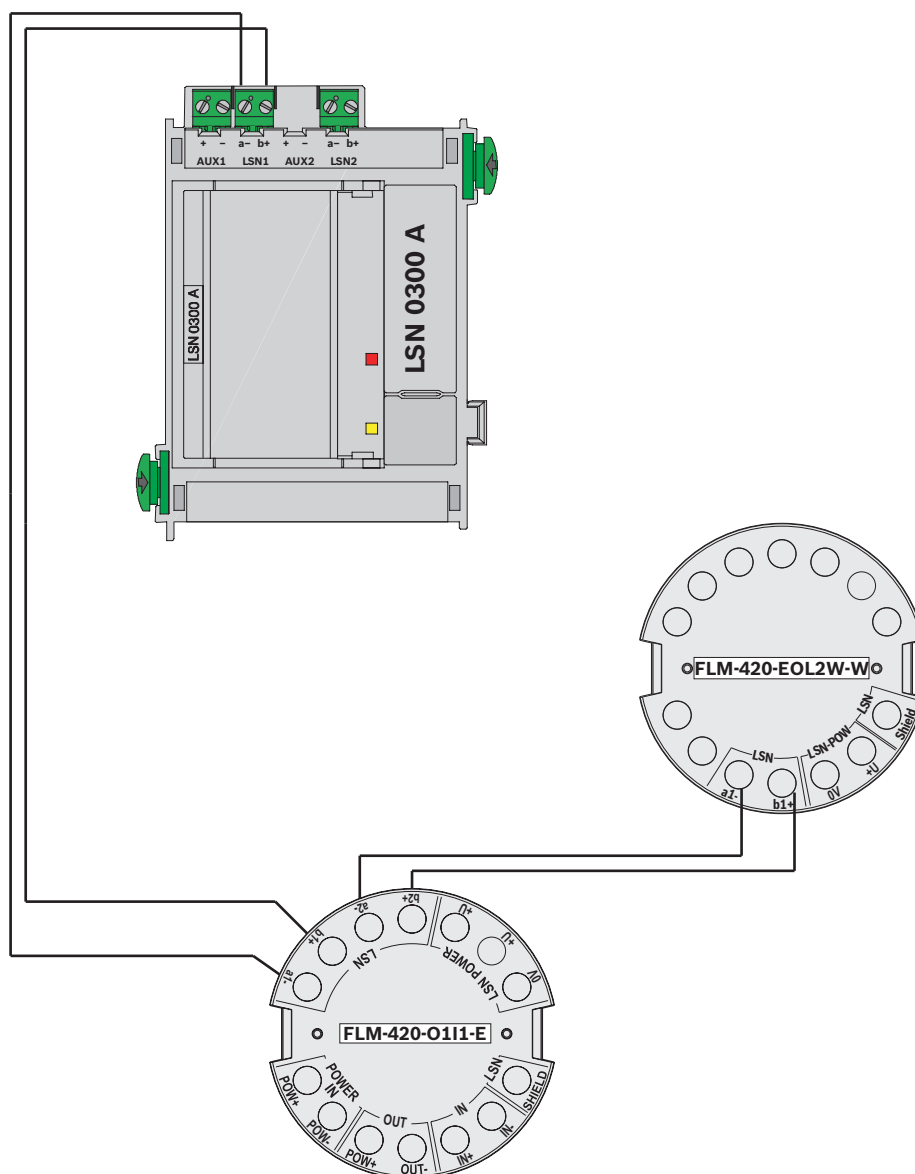


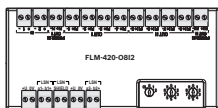
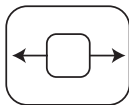
ELS VdS 2489



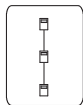


ELS VdS 2489

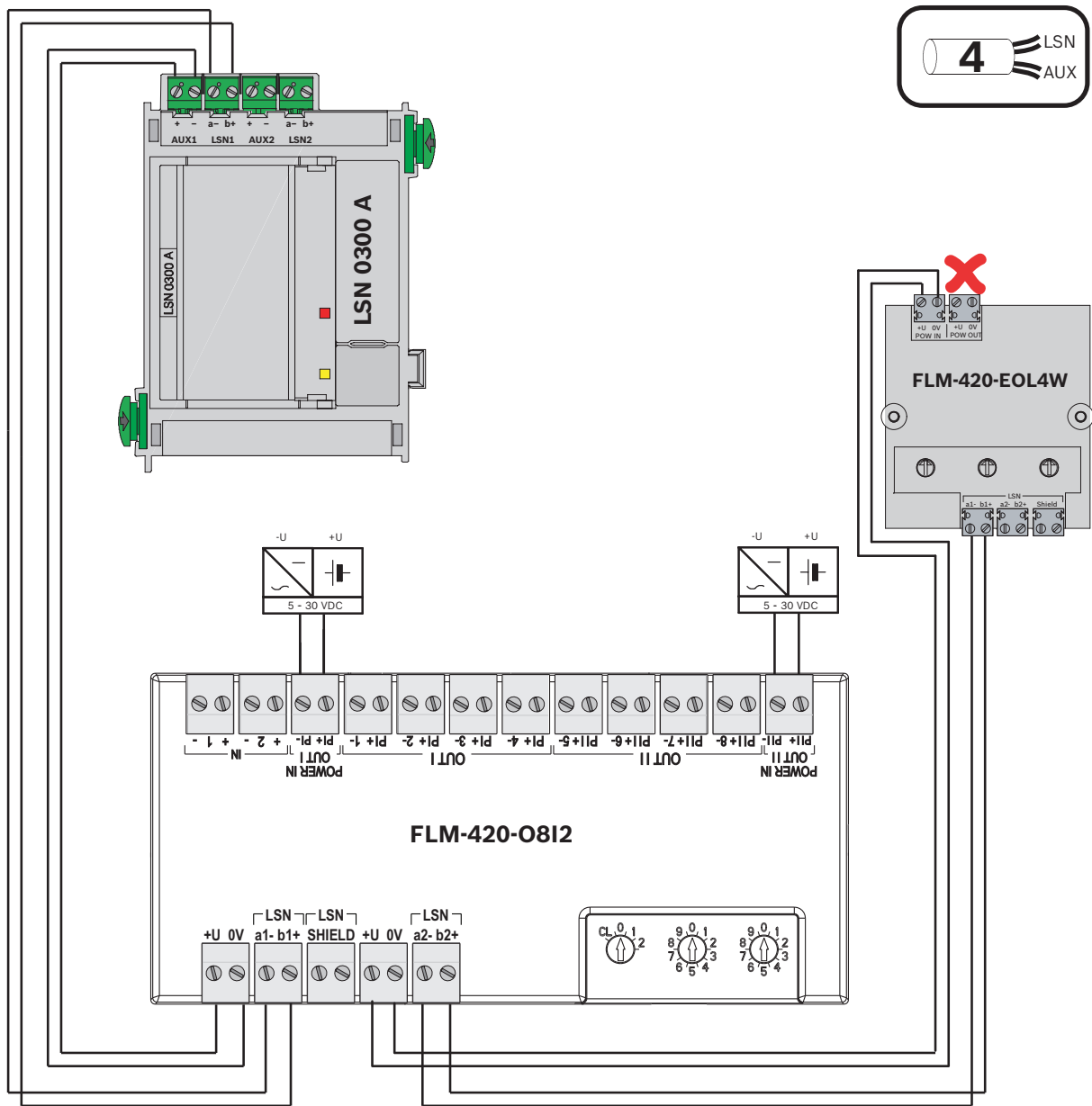


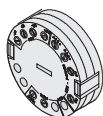
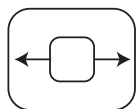


FLM-420-08I2-S



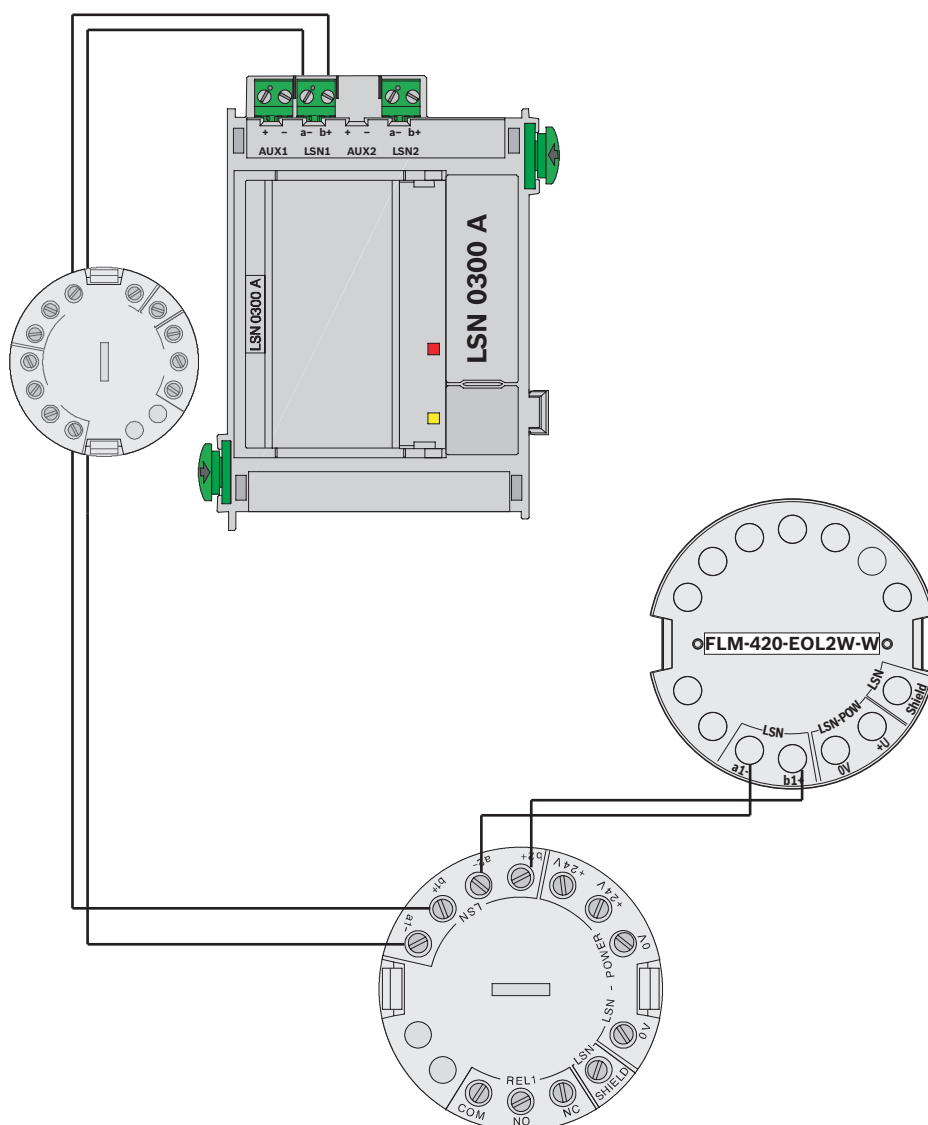
ELS VdS 2489

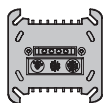
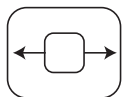




A diagram of a linked list with three nodes. Each node is represented by a small square with a circle inside. The nodes are connected by vertical lines, with the top node connected to the middle node, and the middle node connected to the bottom node.

ELS VdS 2489

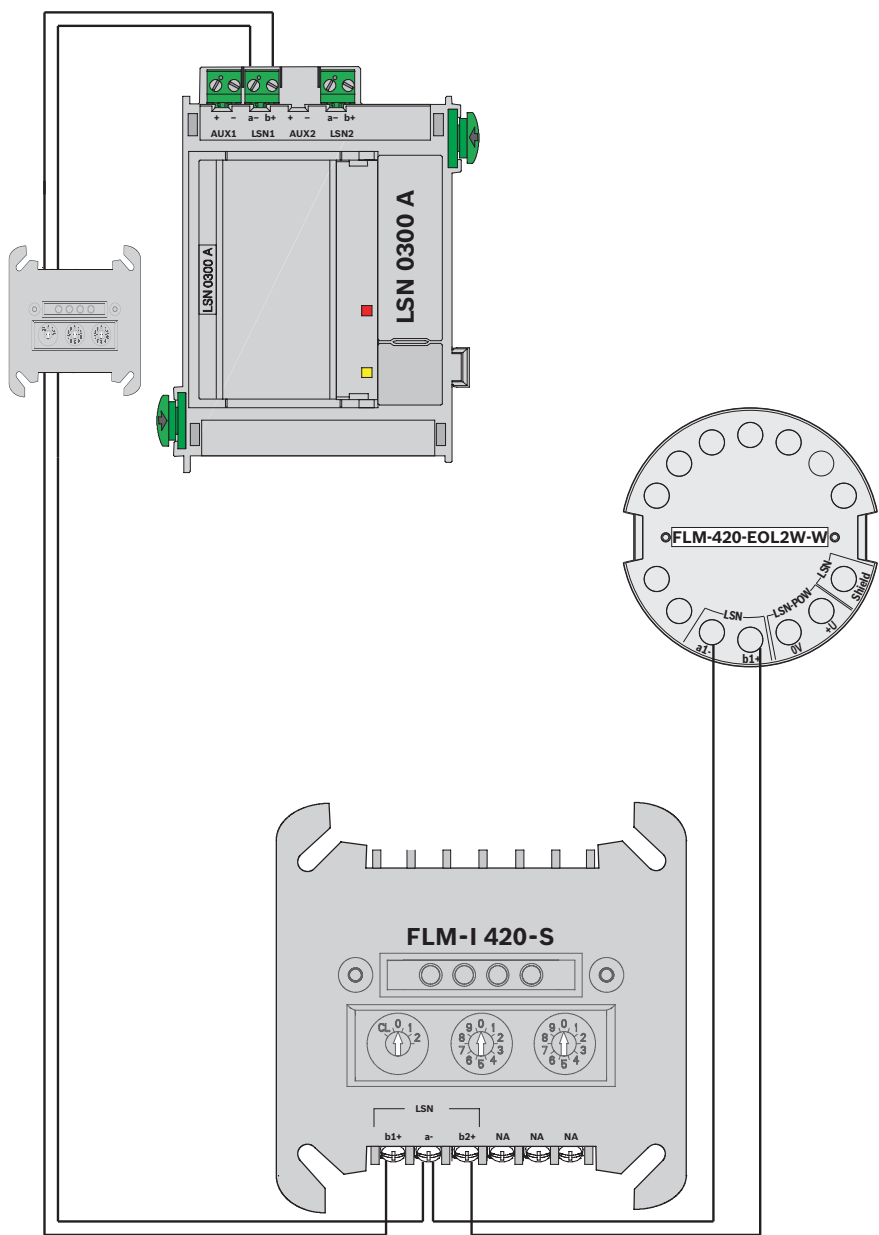


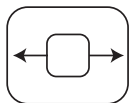
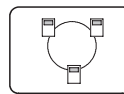
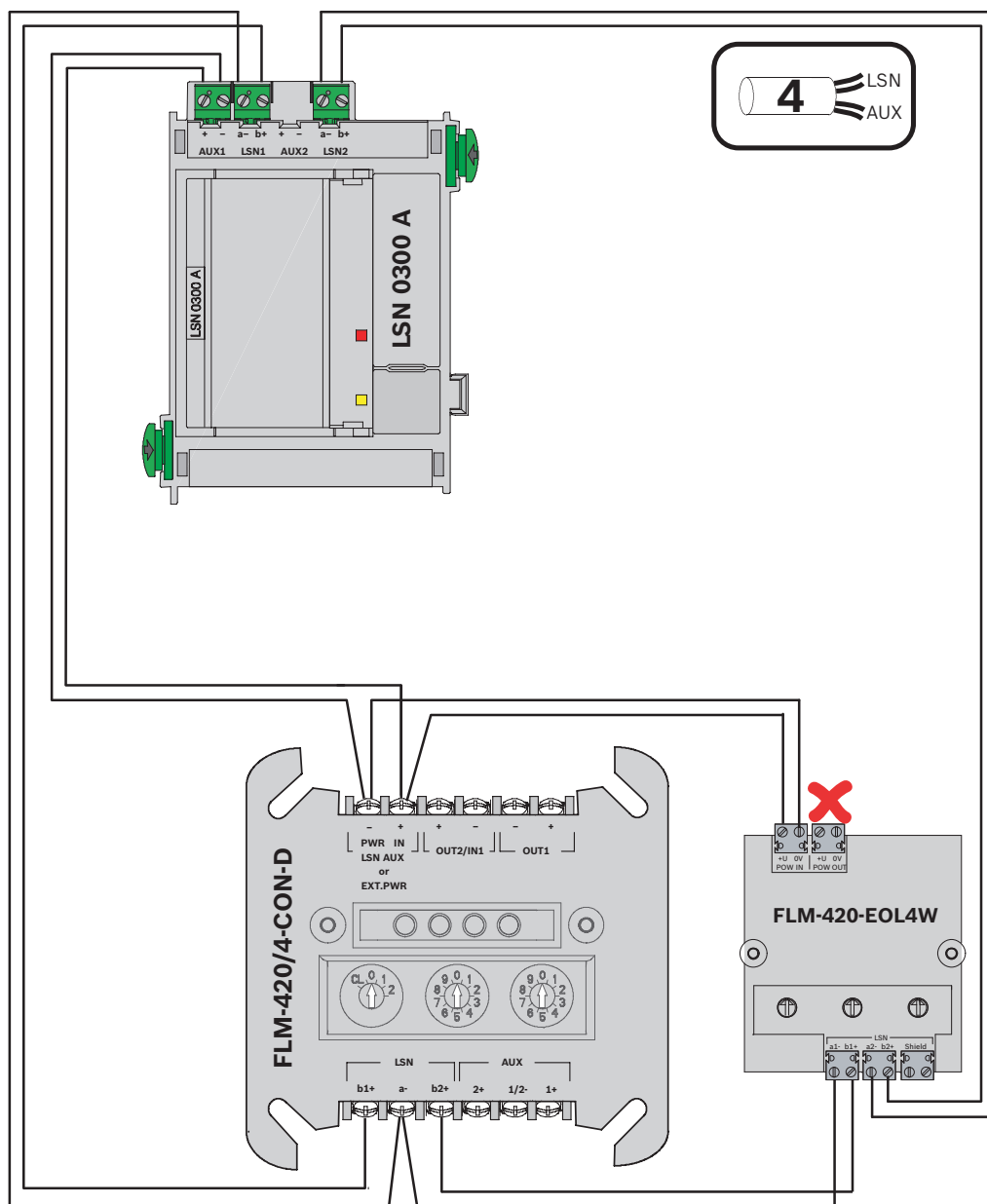


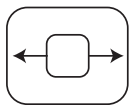
FLM-I 420-S



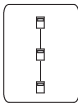
ELS VdS 2489



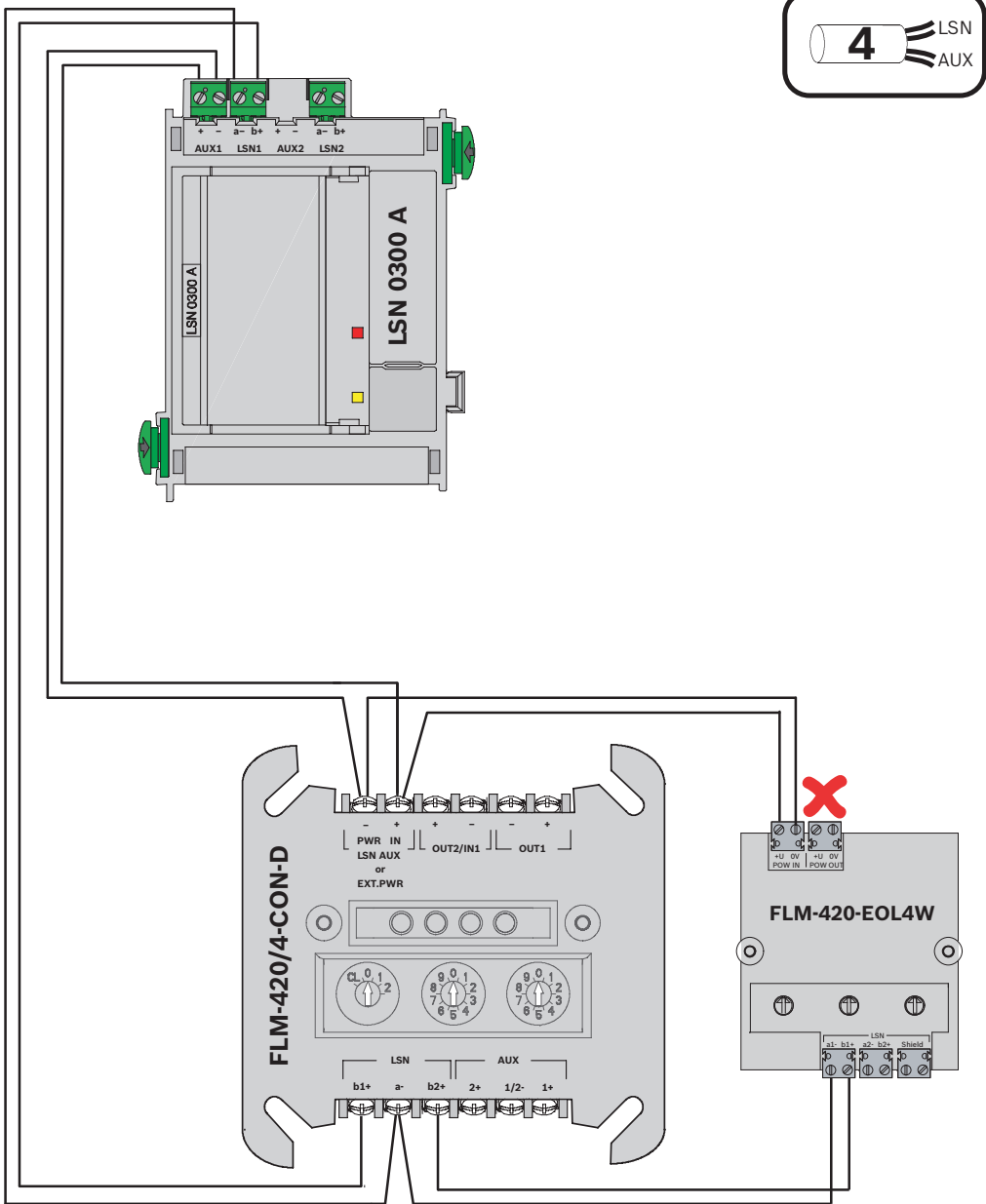
**FLM-420/
4-CON-D****ELS VdS 2489**

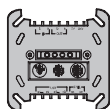
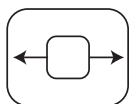
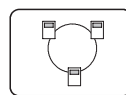
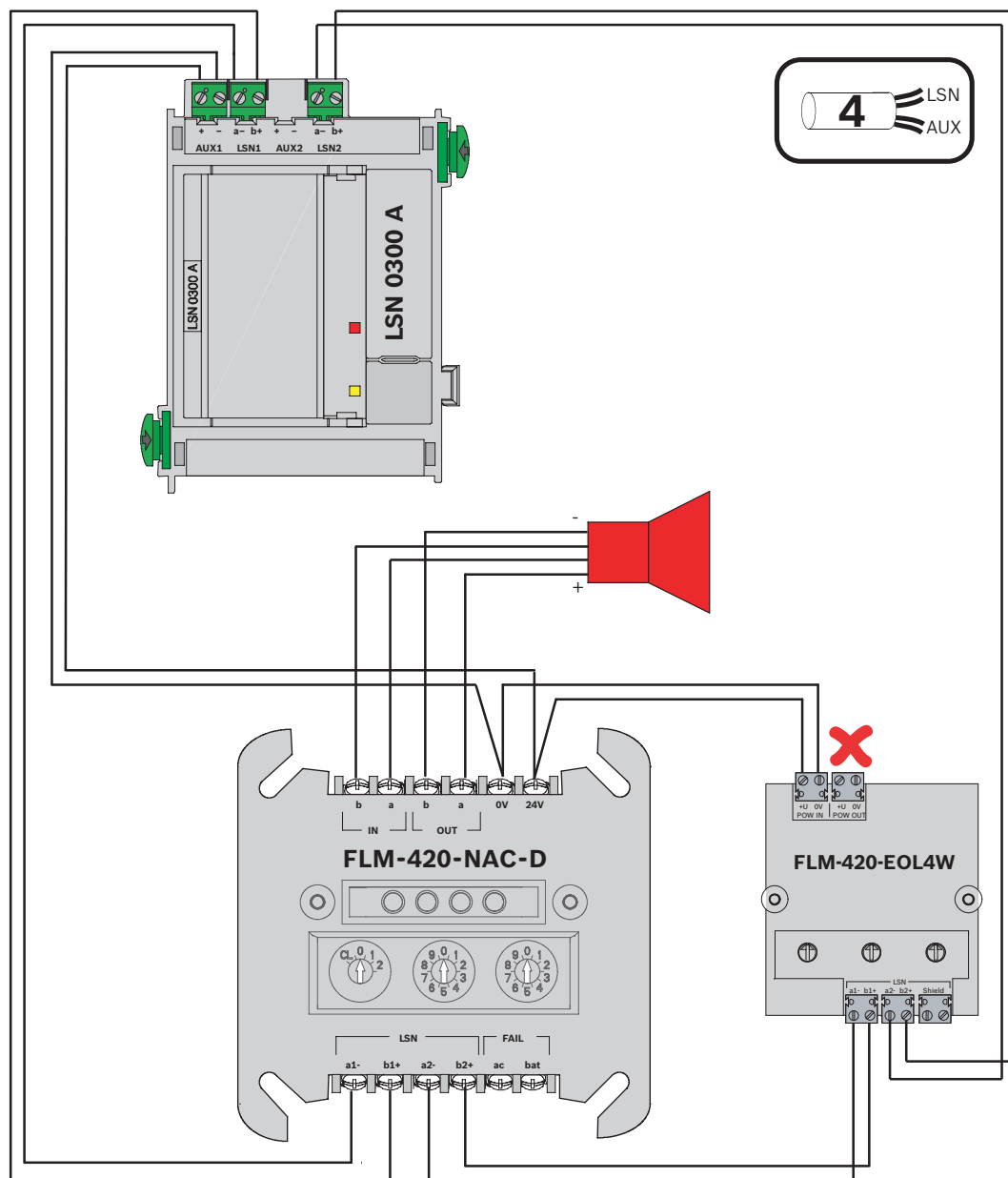


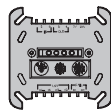
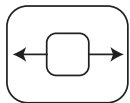
**FLM-420/
4-CON-D**



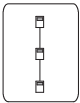
ELS VdS 2489



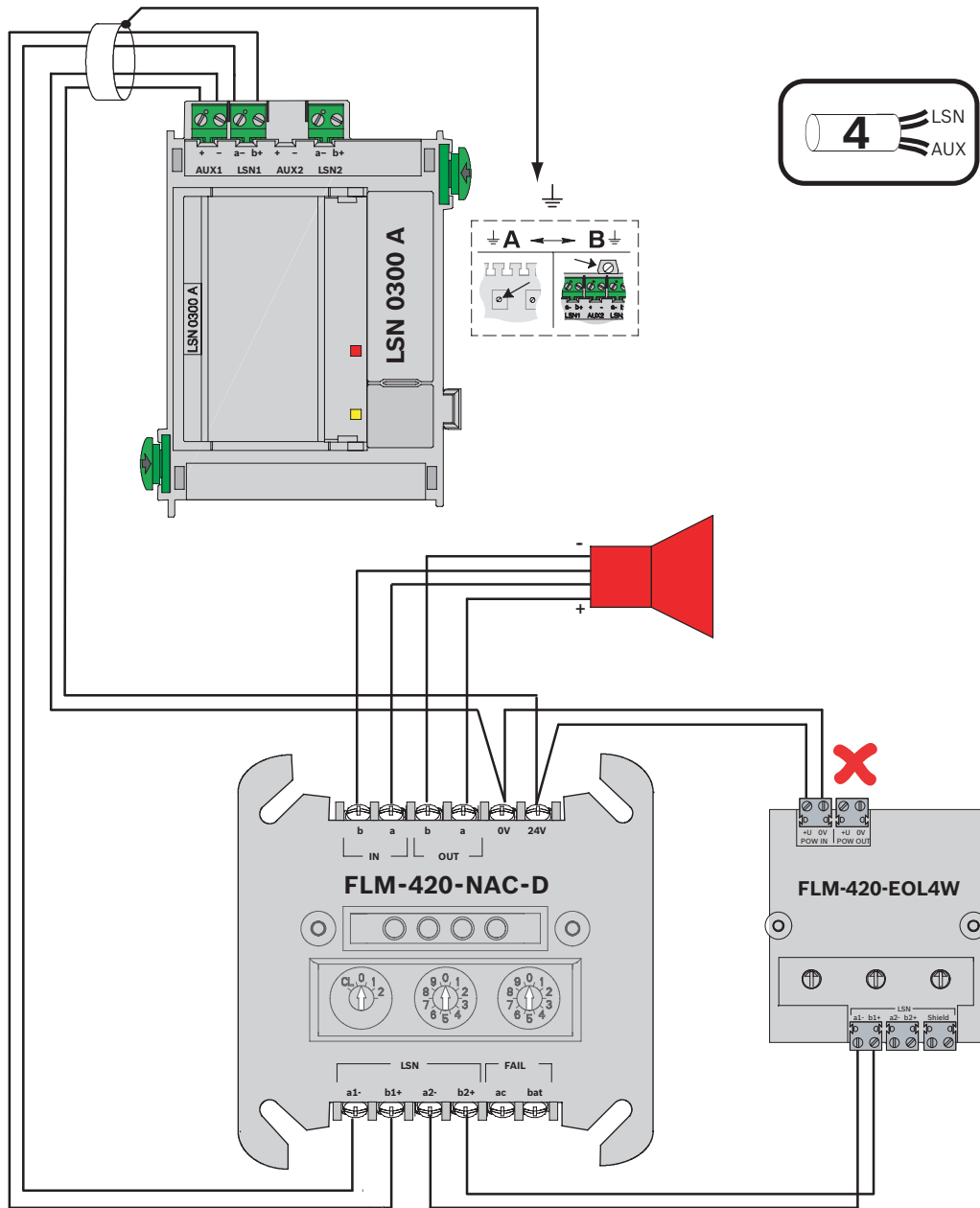
**FLM-420-NAC-D/S****ELS VdS 2489
EN 54-2**

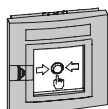
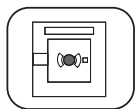
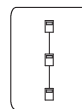
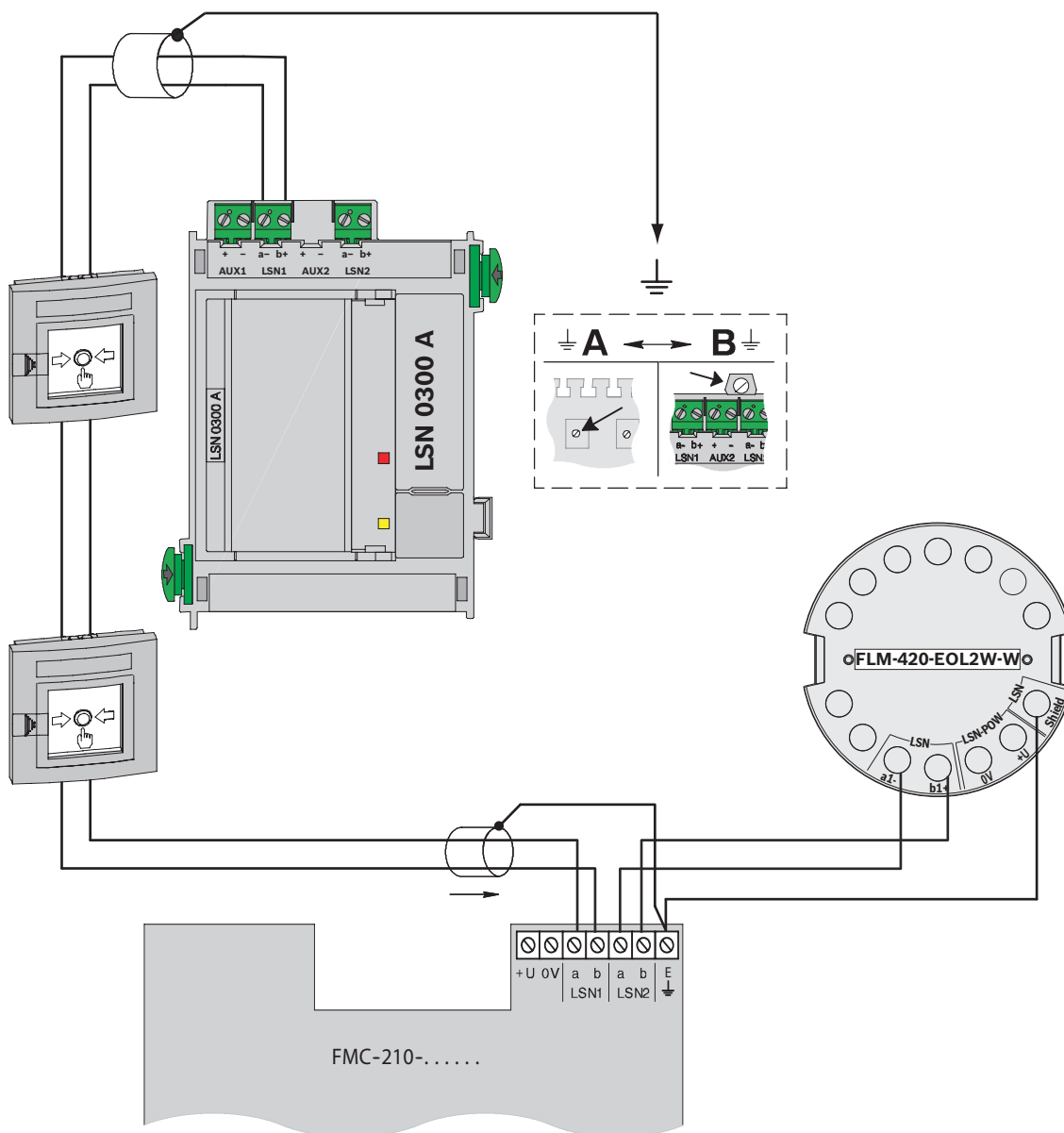


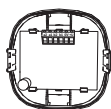
FLM-420-NAC-D/S



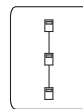
ELS VdS 2489



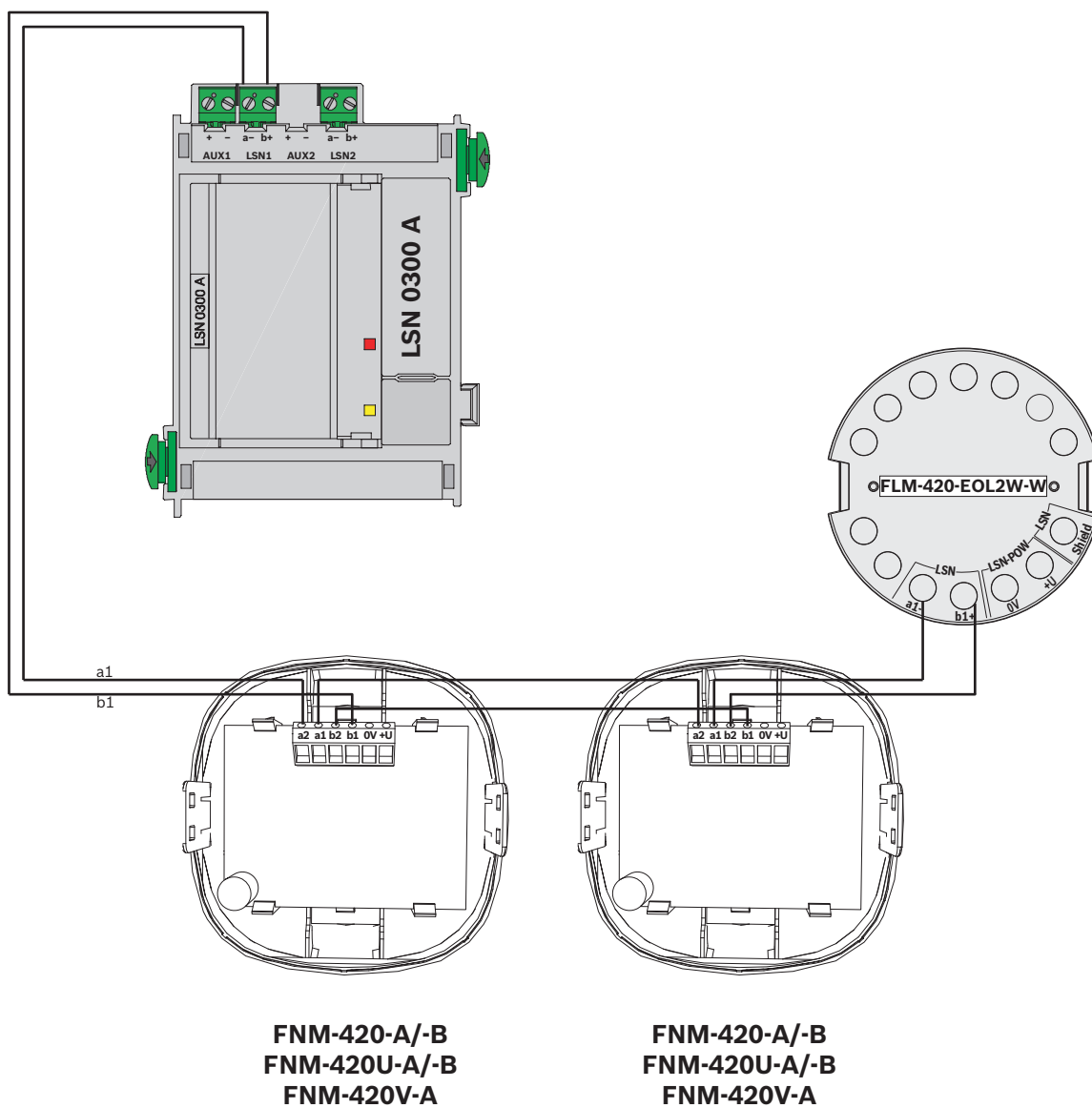
**FMC-210-...****ELS VdS 2489**



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



ELS VdS 2489

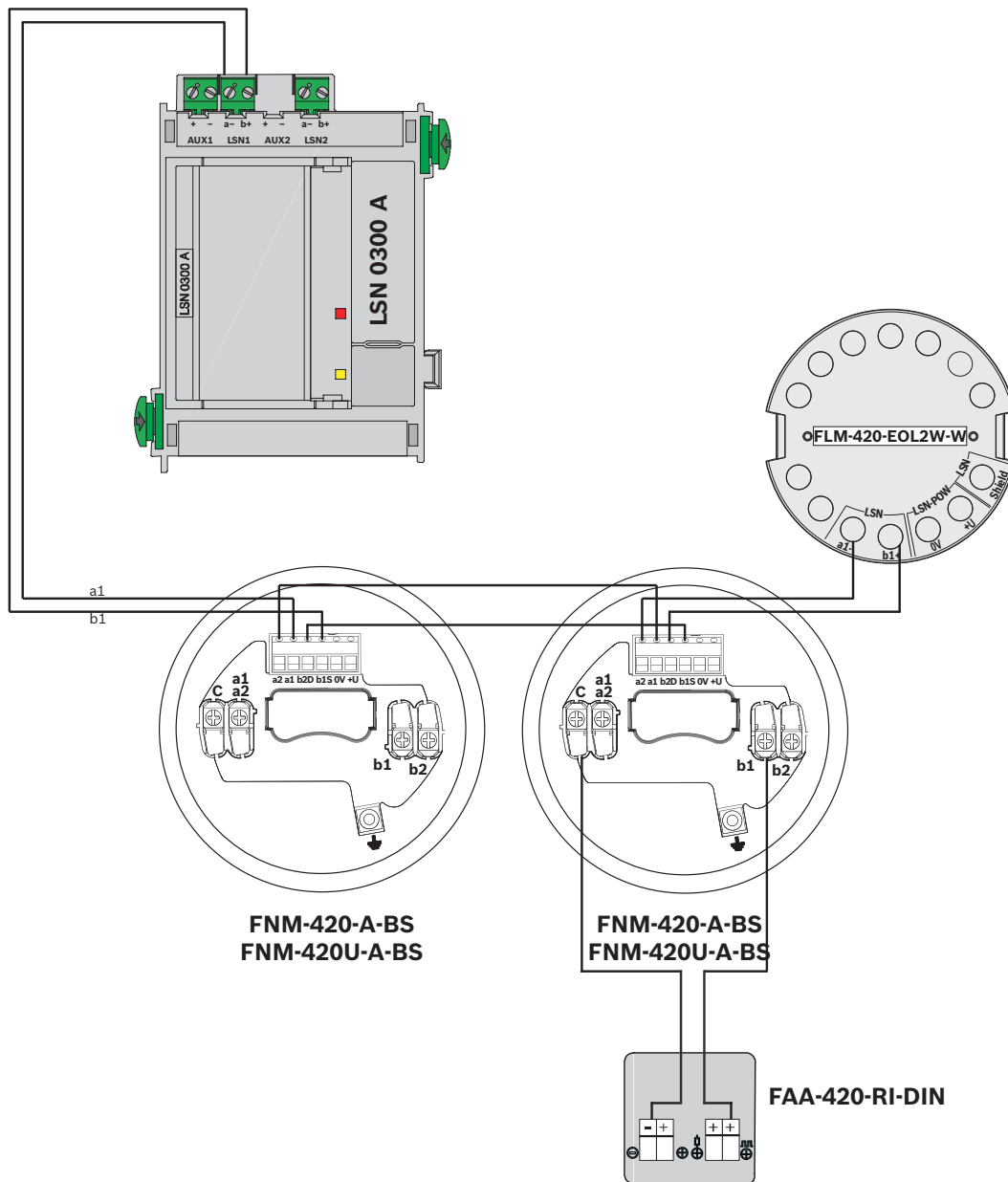


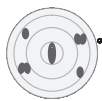


FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

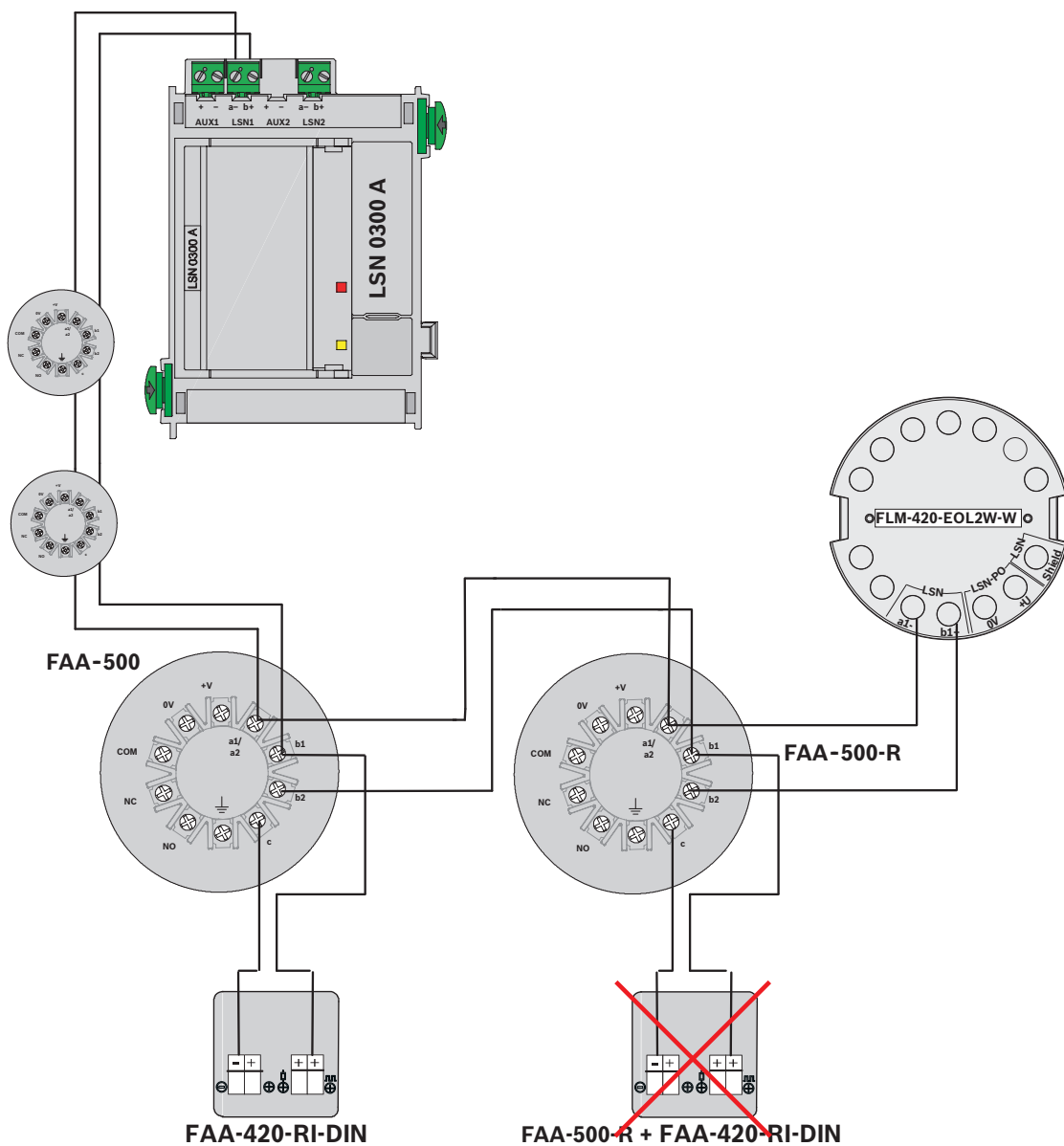




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

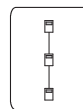


ELS VdS 2489

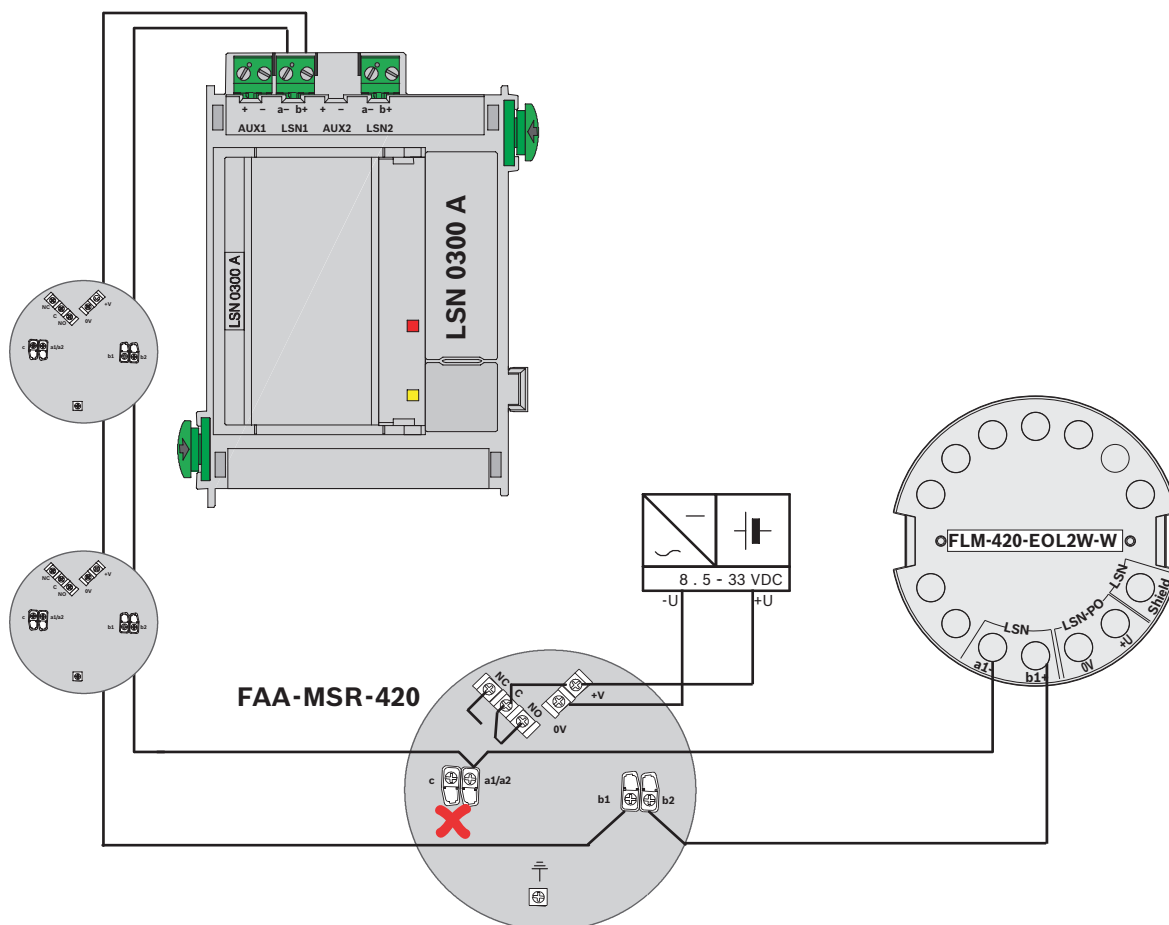




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R



ELS VdS 2489

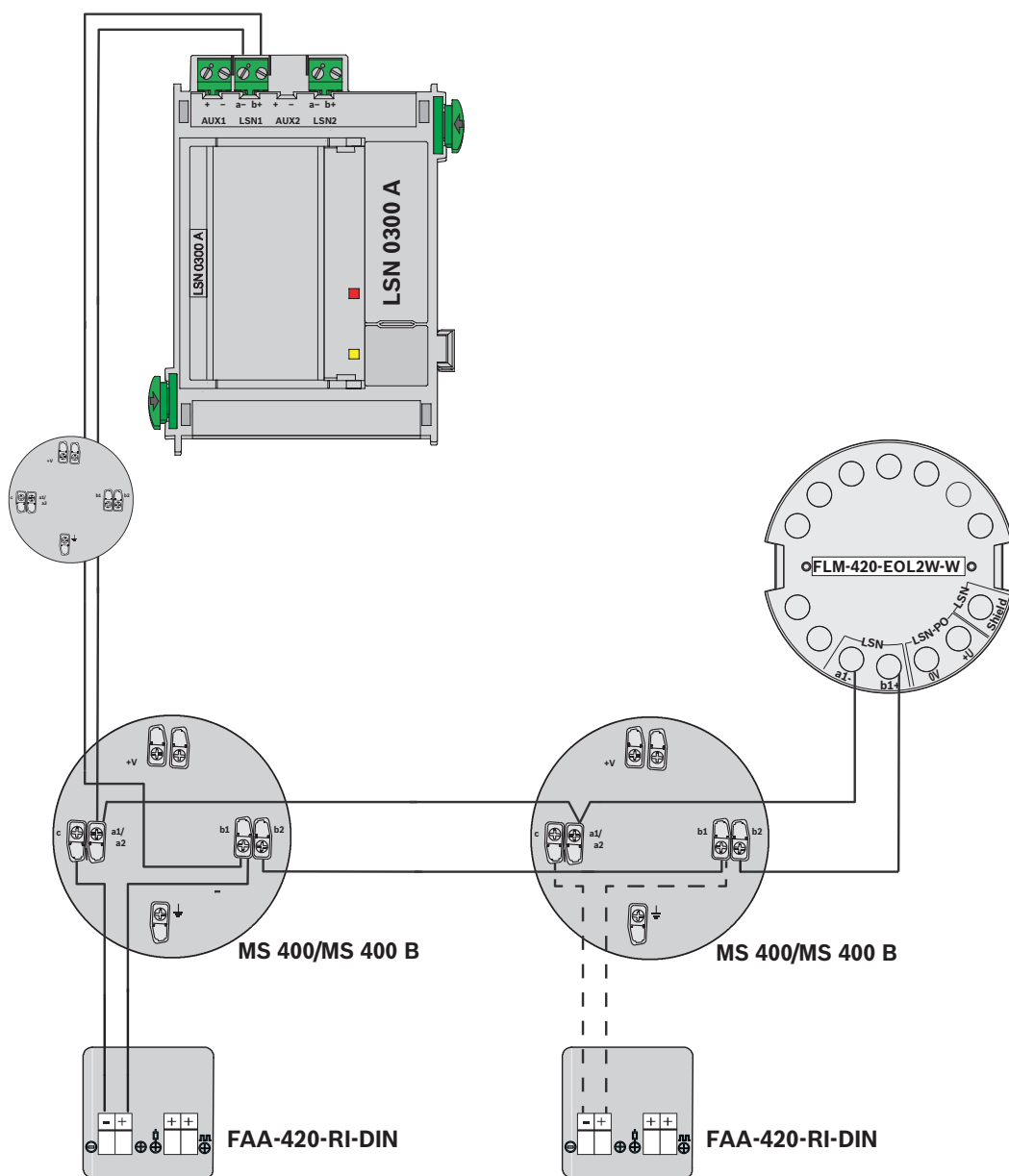


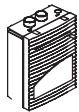


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470

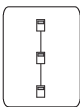


ELS VdS 2489

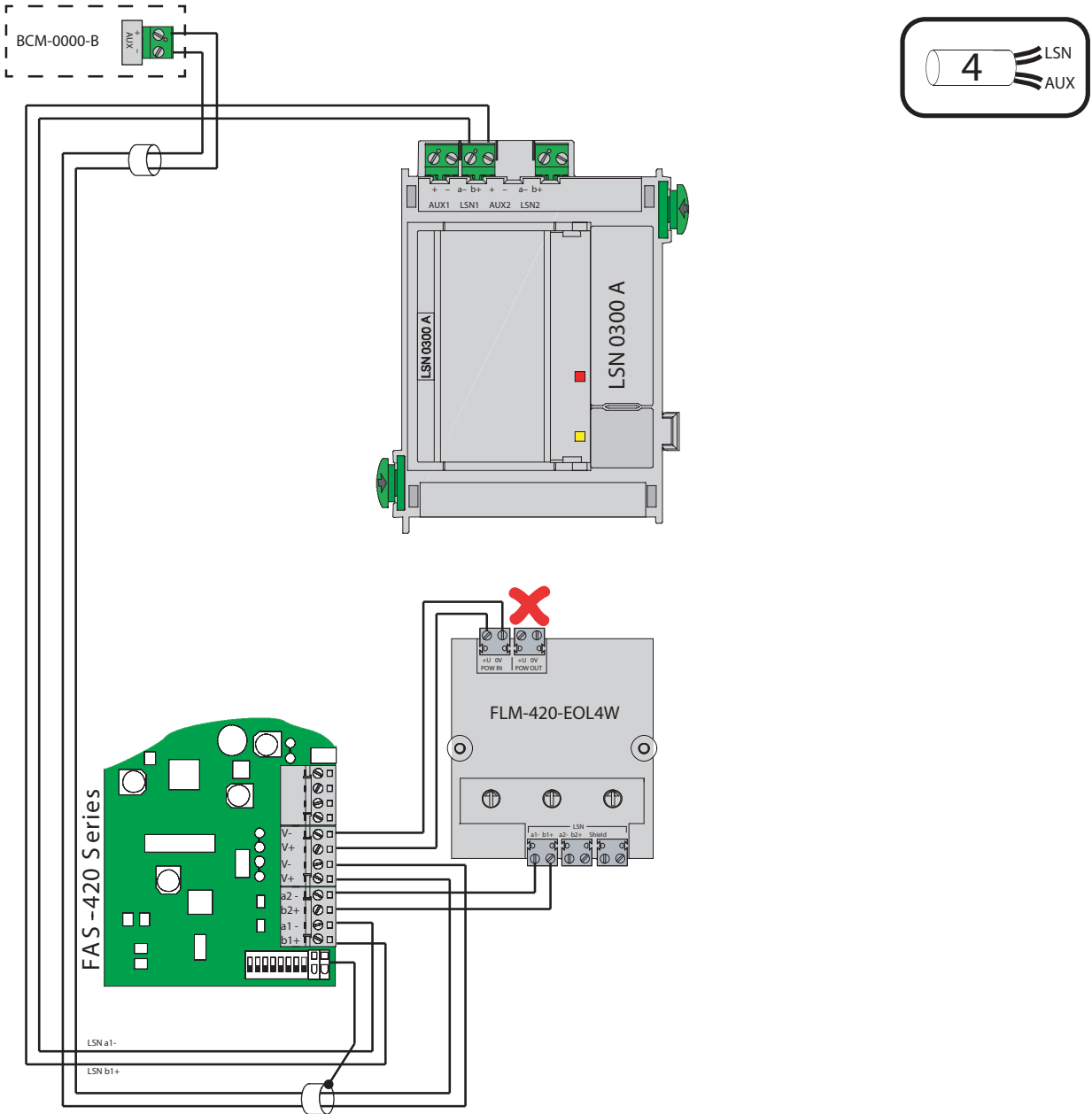


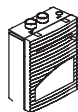


FAS-420 Series

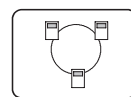


ELS VdS 2489

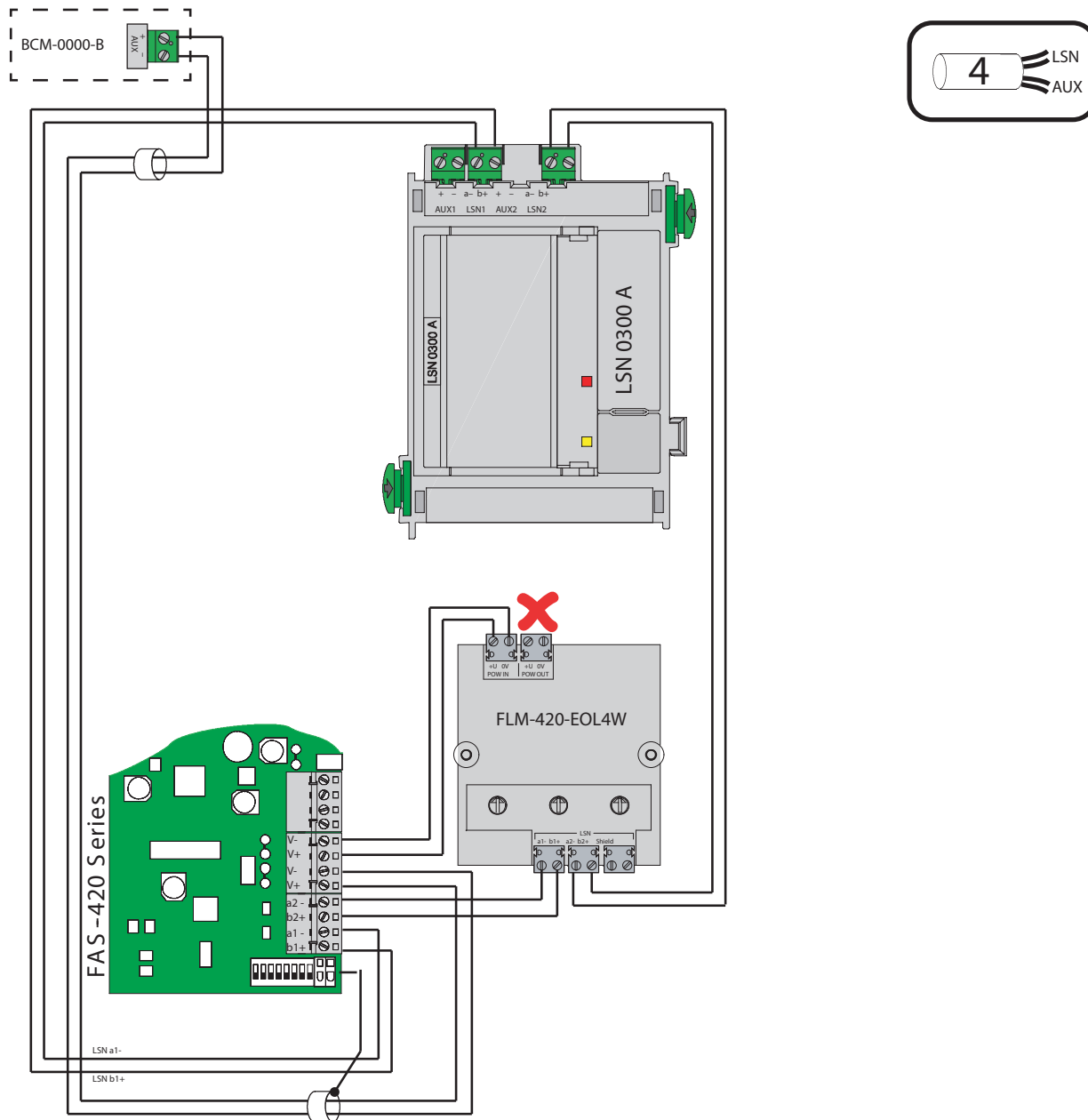


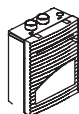


FAS-420 Series

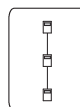


ELS VdS 2489

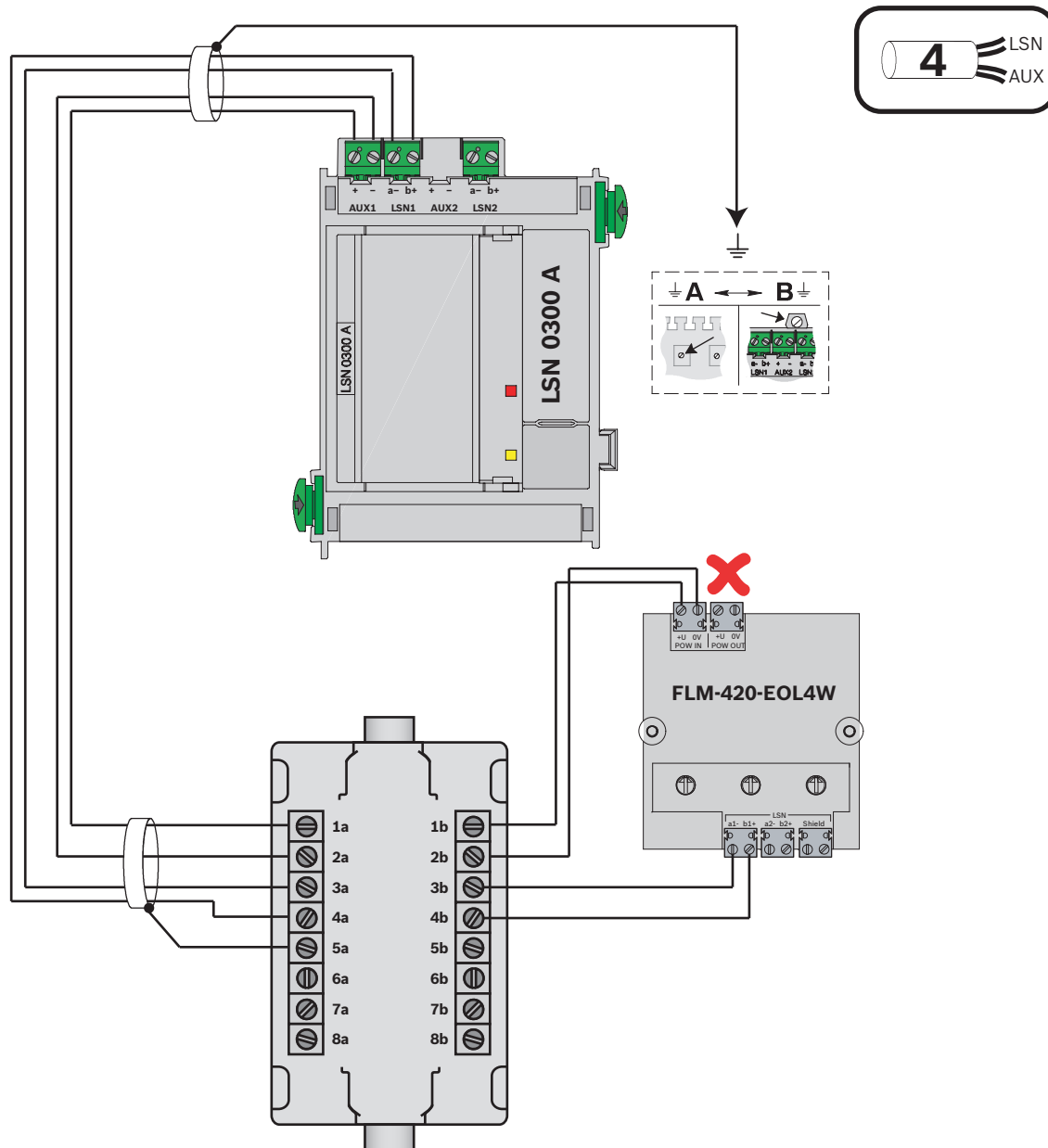


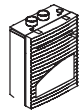


FAS-420-TM Series

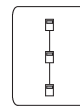


ELS VdS 2489



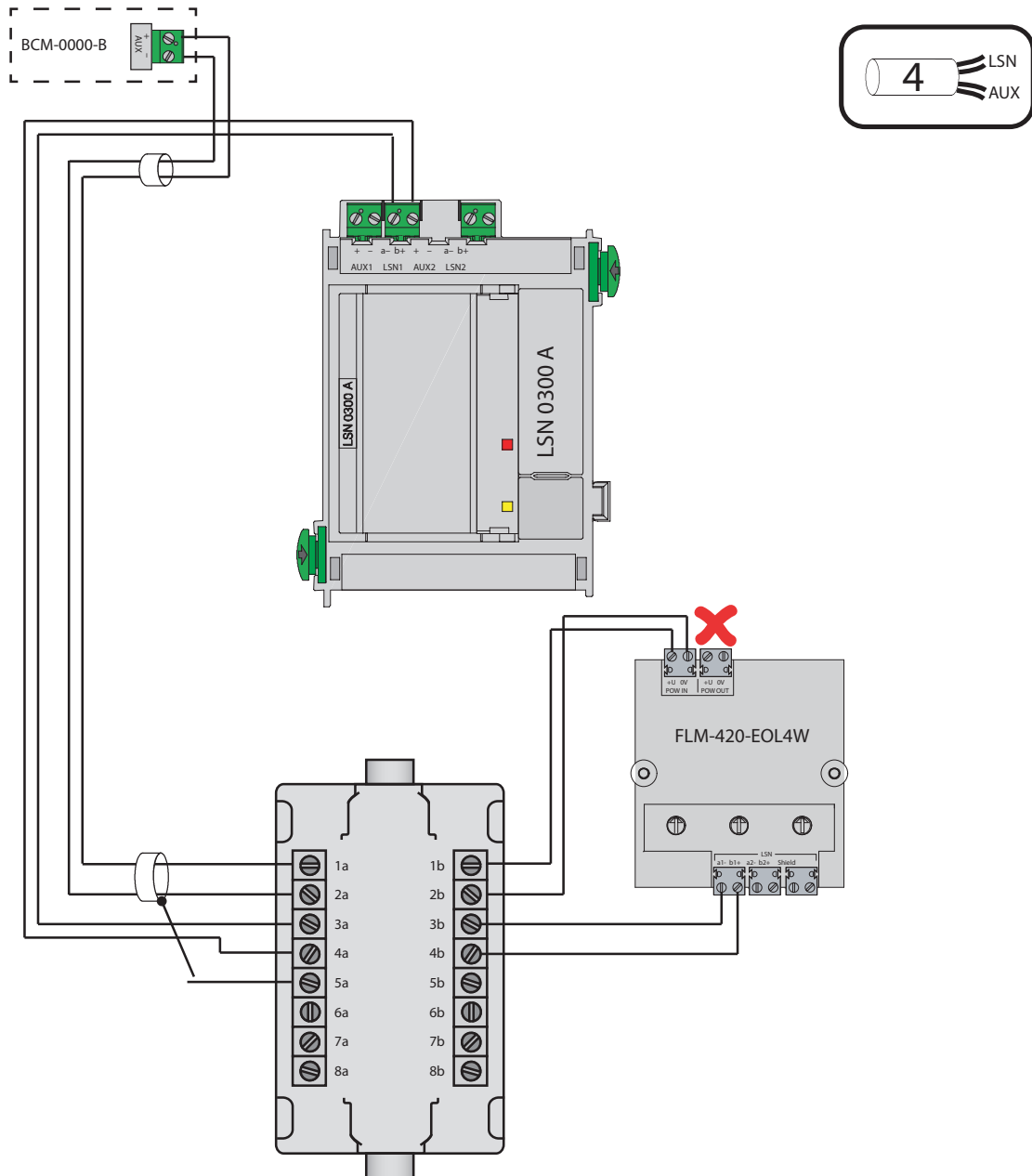


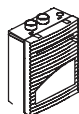
FAS-420-TM Series



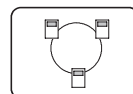
ELS

VdS 2489

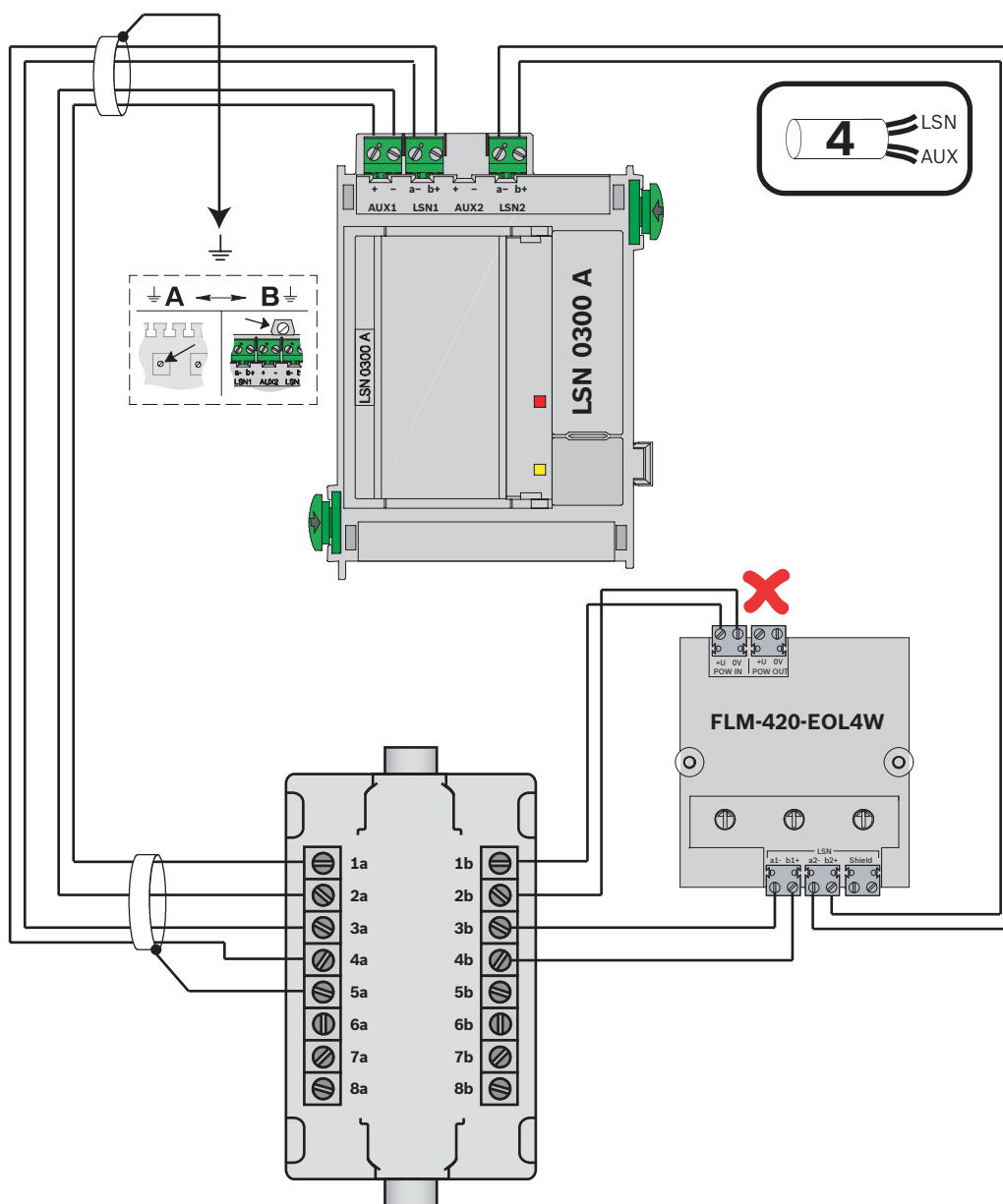


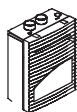


FAS-420-TM Series

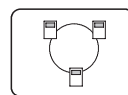


ELS VdS 2489

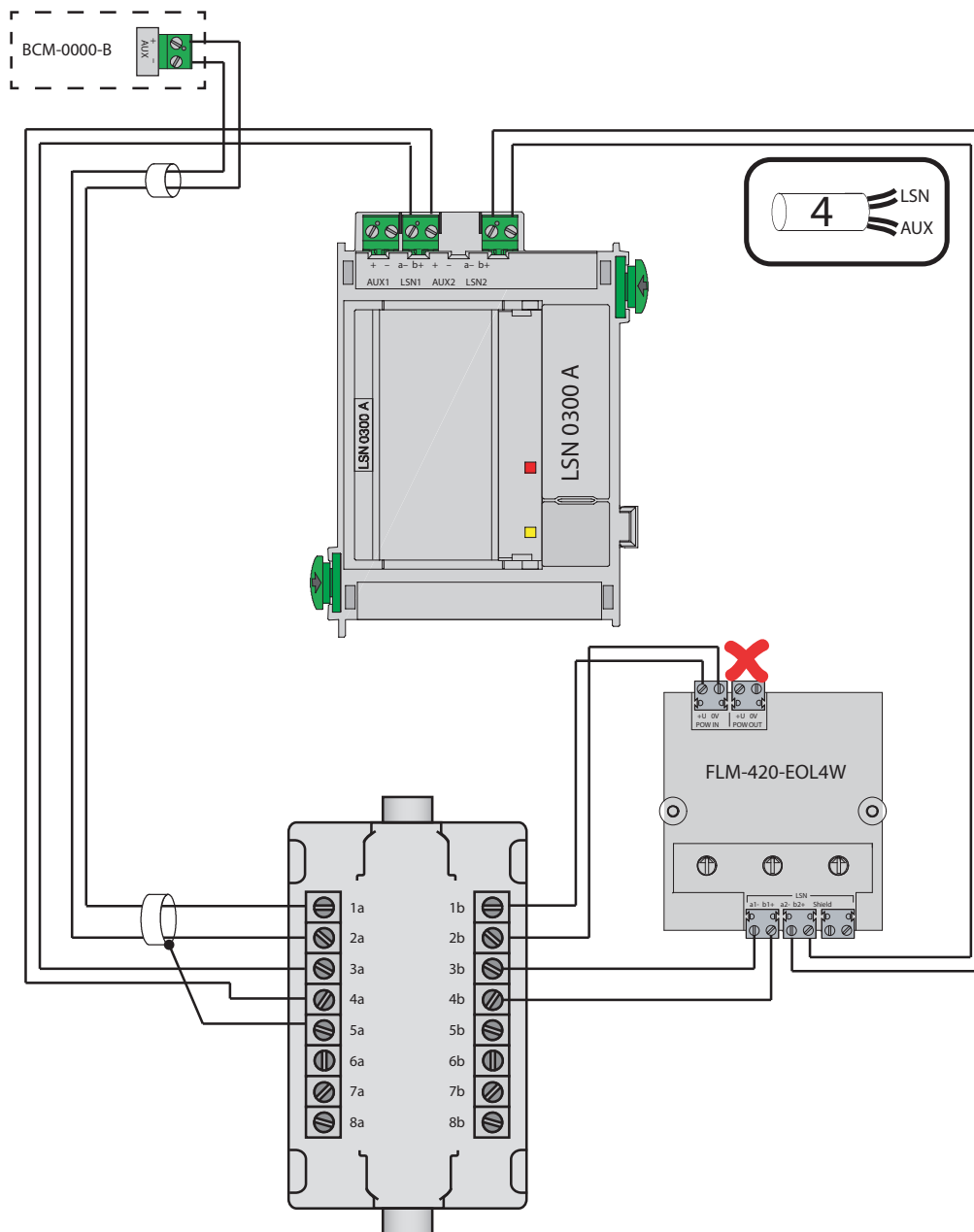




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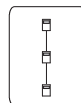


ELS VdS 2489

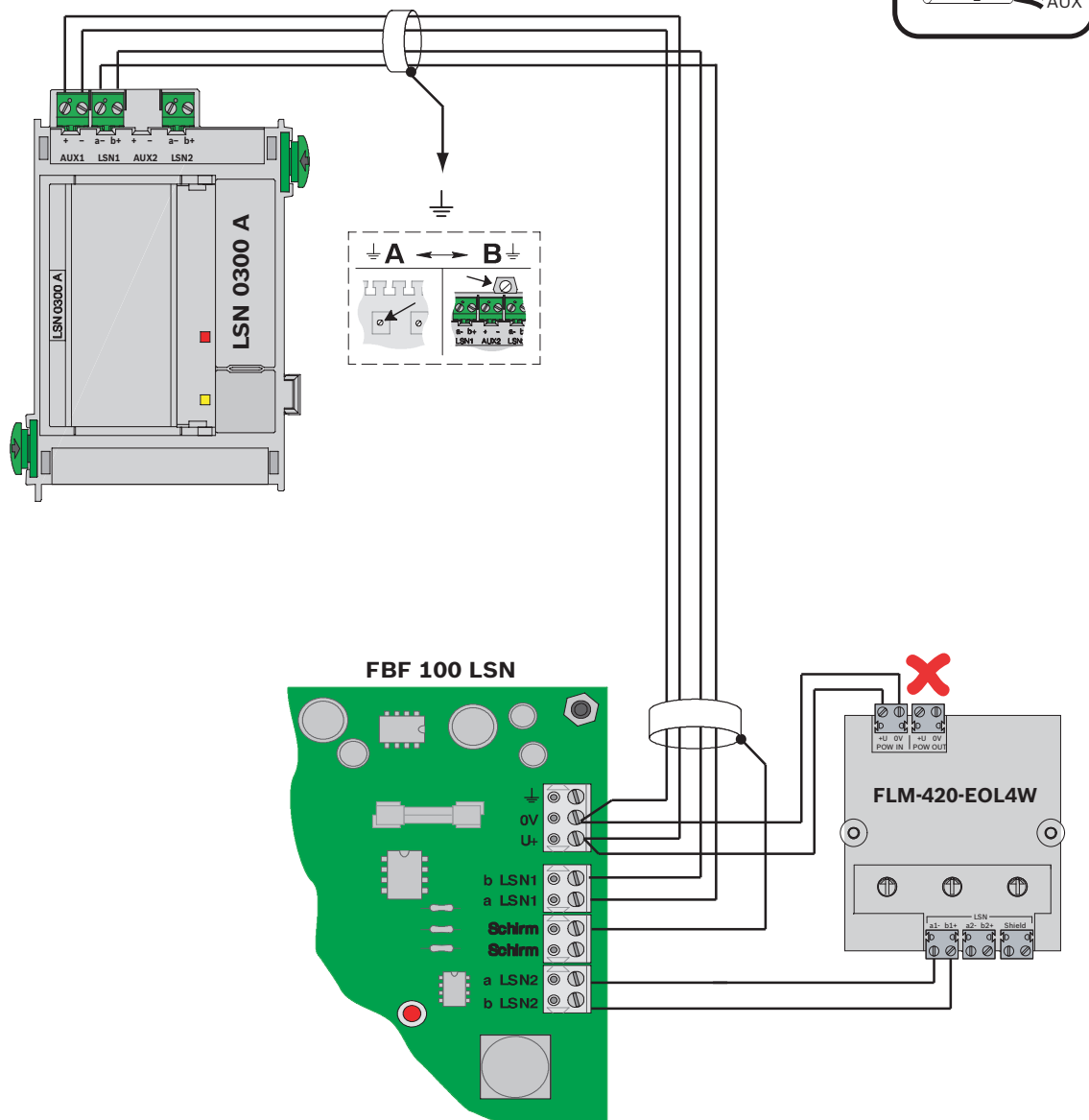


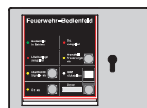


FBF 100 LSN

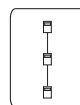


ELS VdS 2489

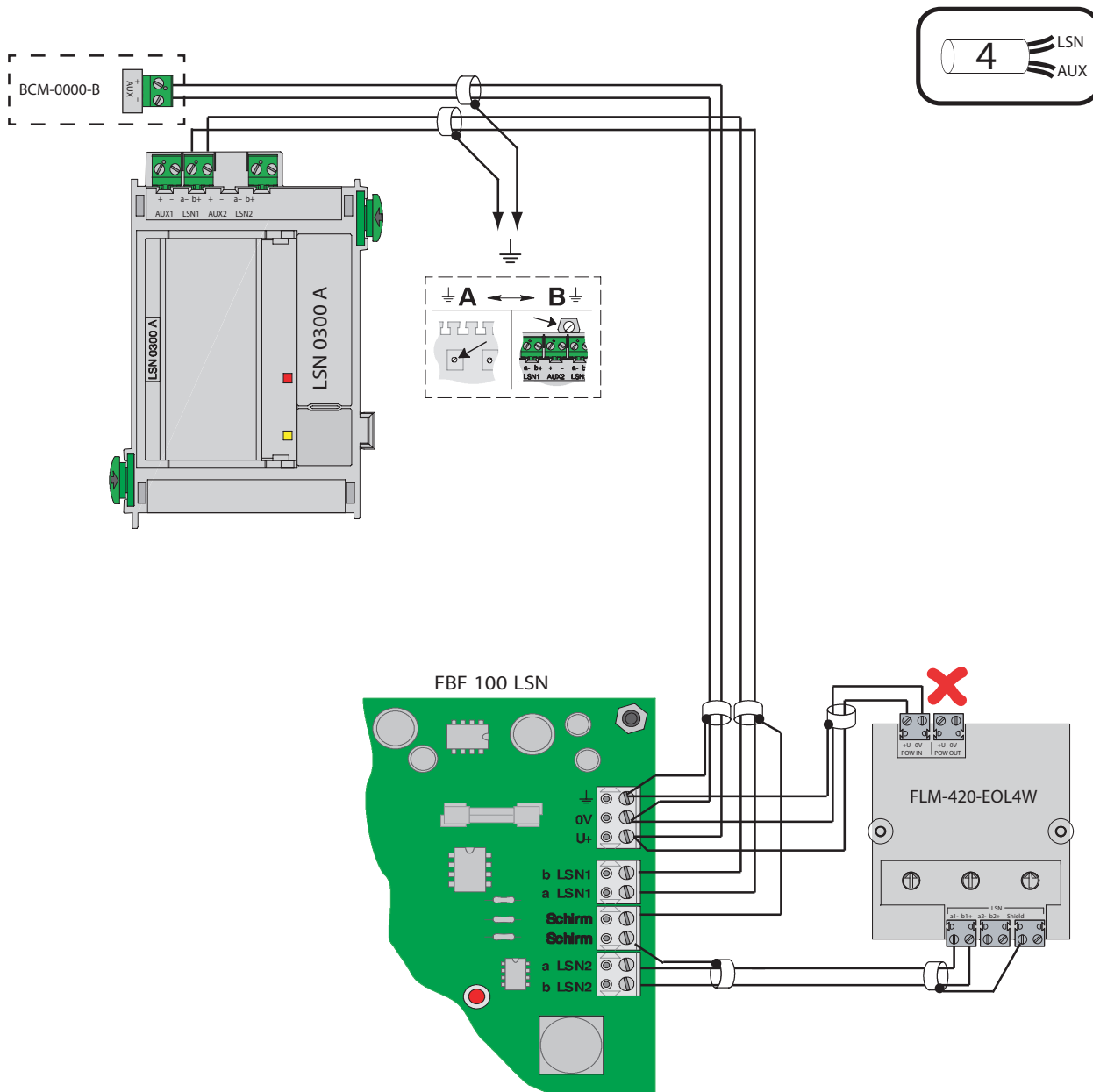




FBF 100 LSN

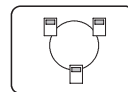


ELS VdS 2489

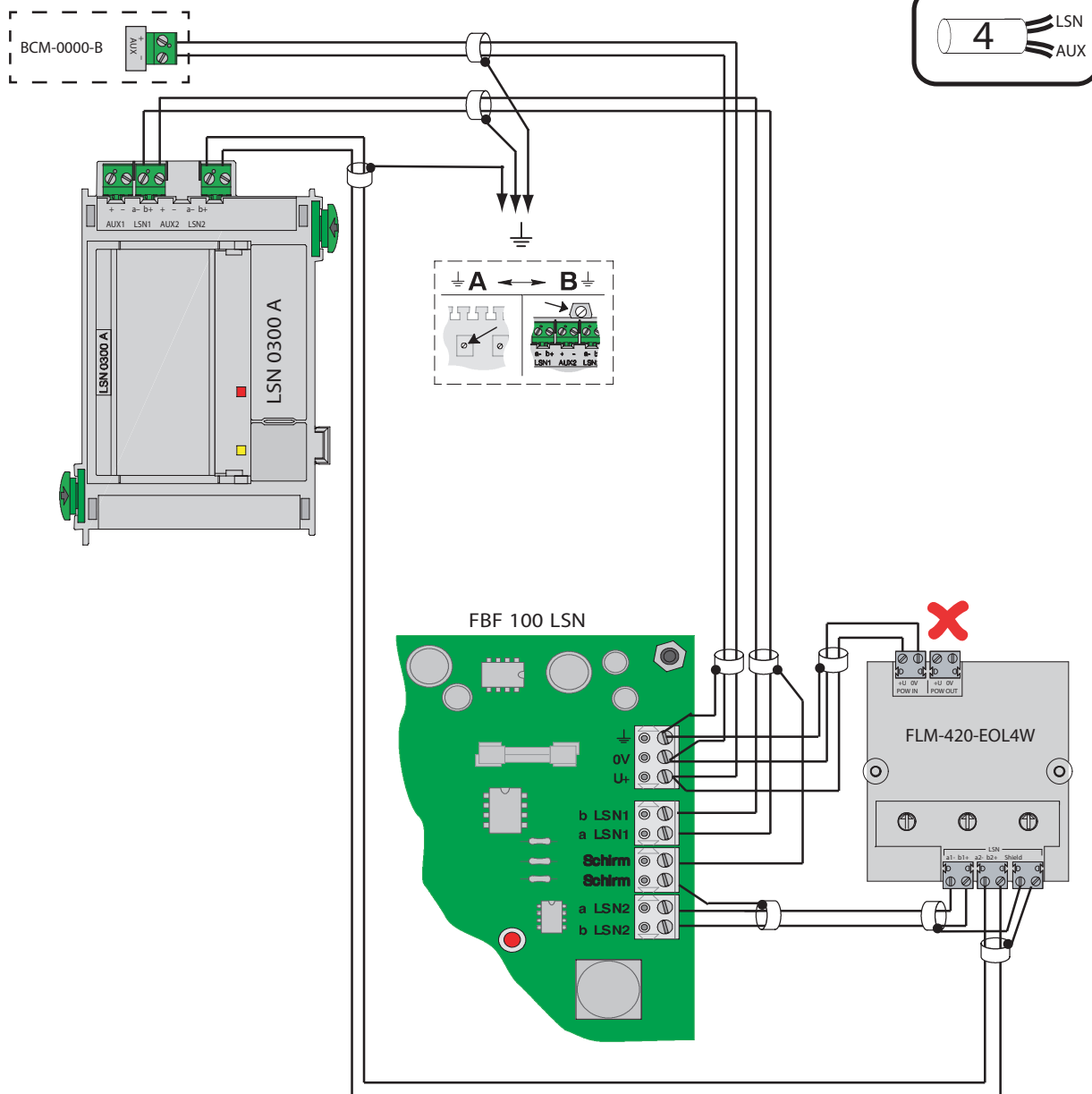


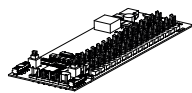


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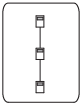


ELS VdS 2489

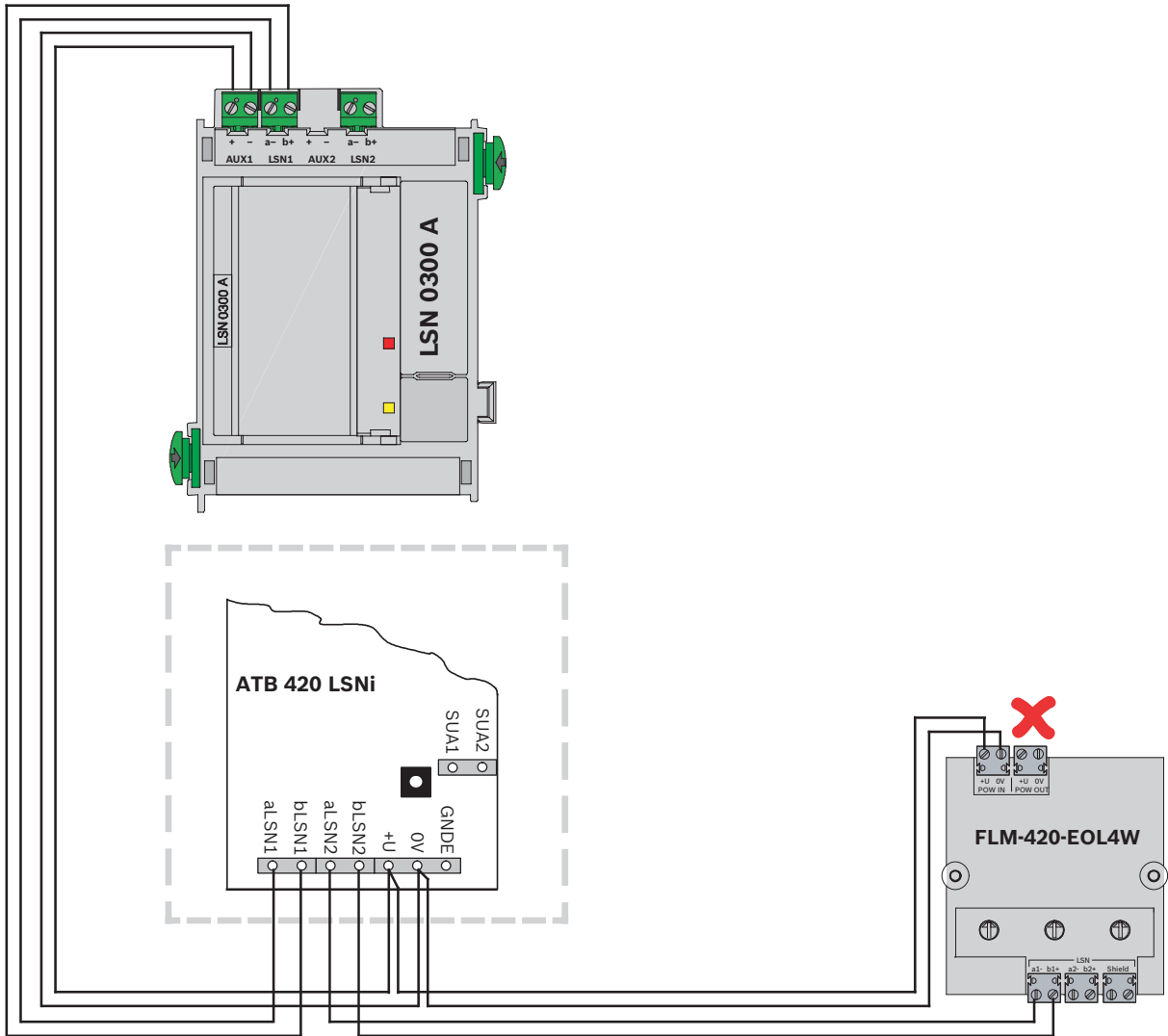


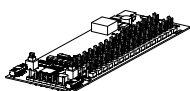


ATB 420 LSNi

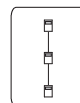


ELS VdS 2489

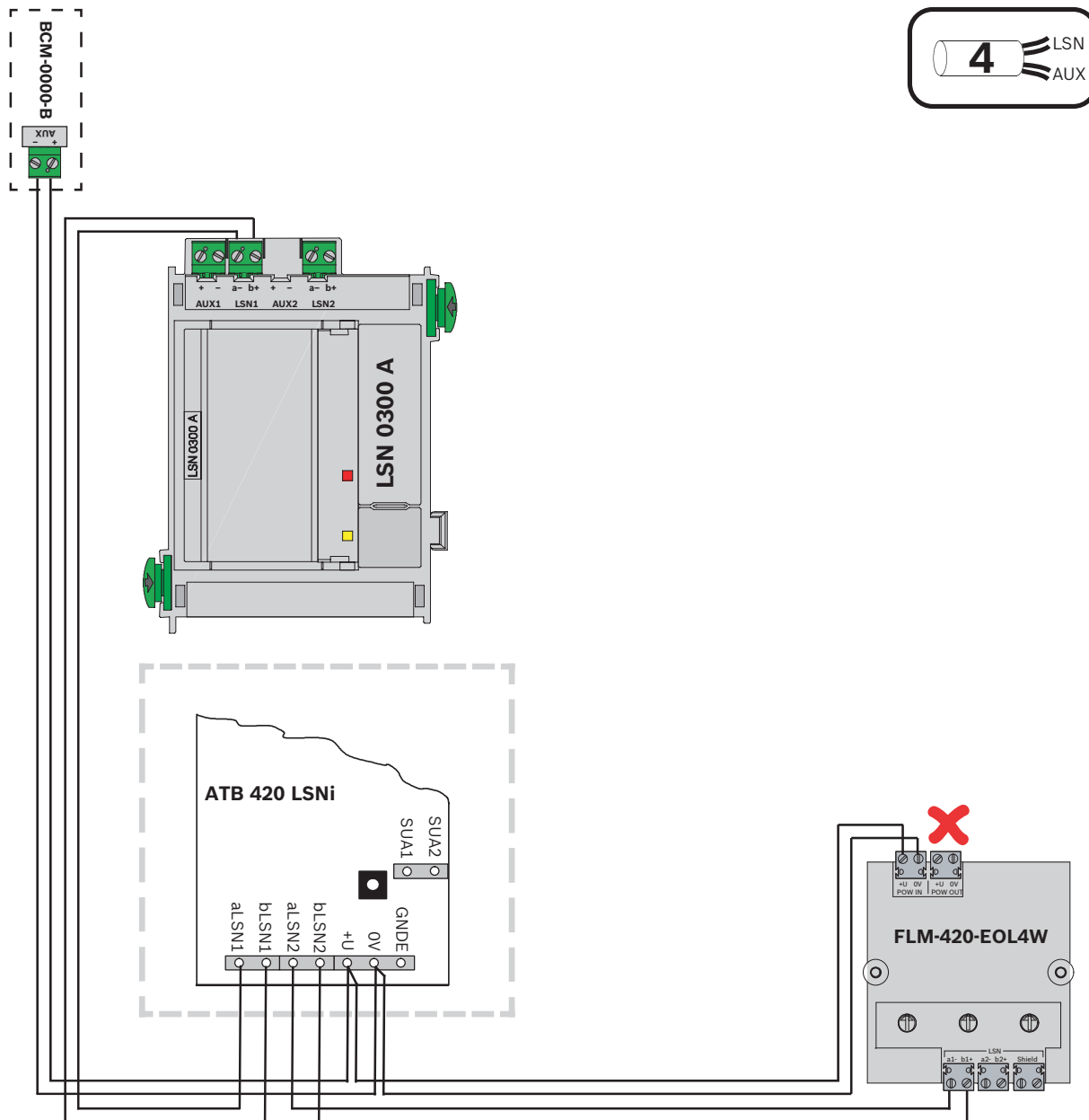


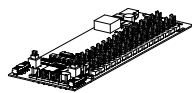


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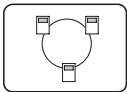


ELS VdS 2489

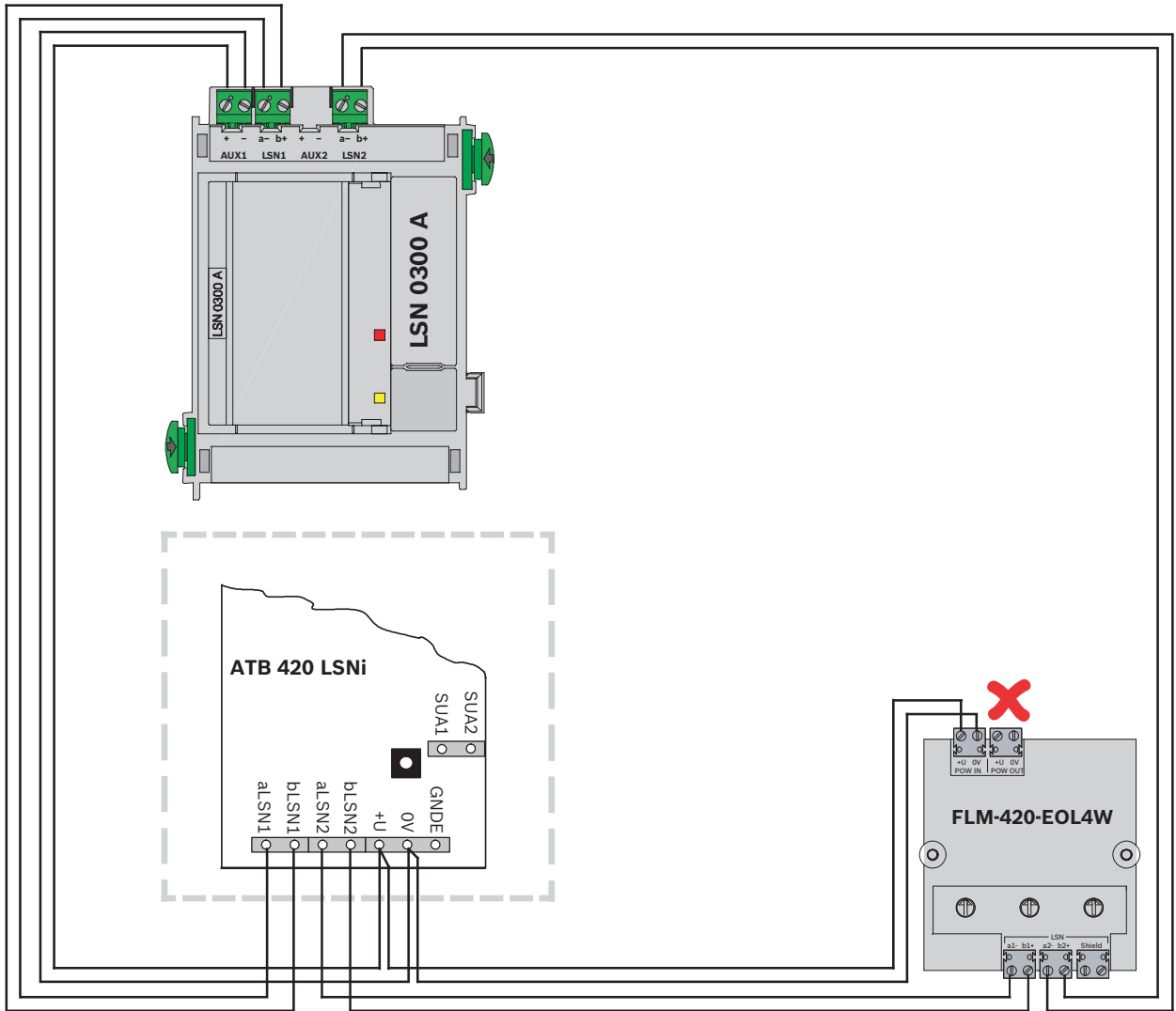


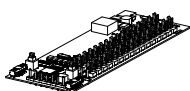


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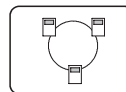


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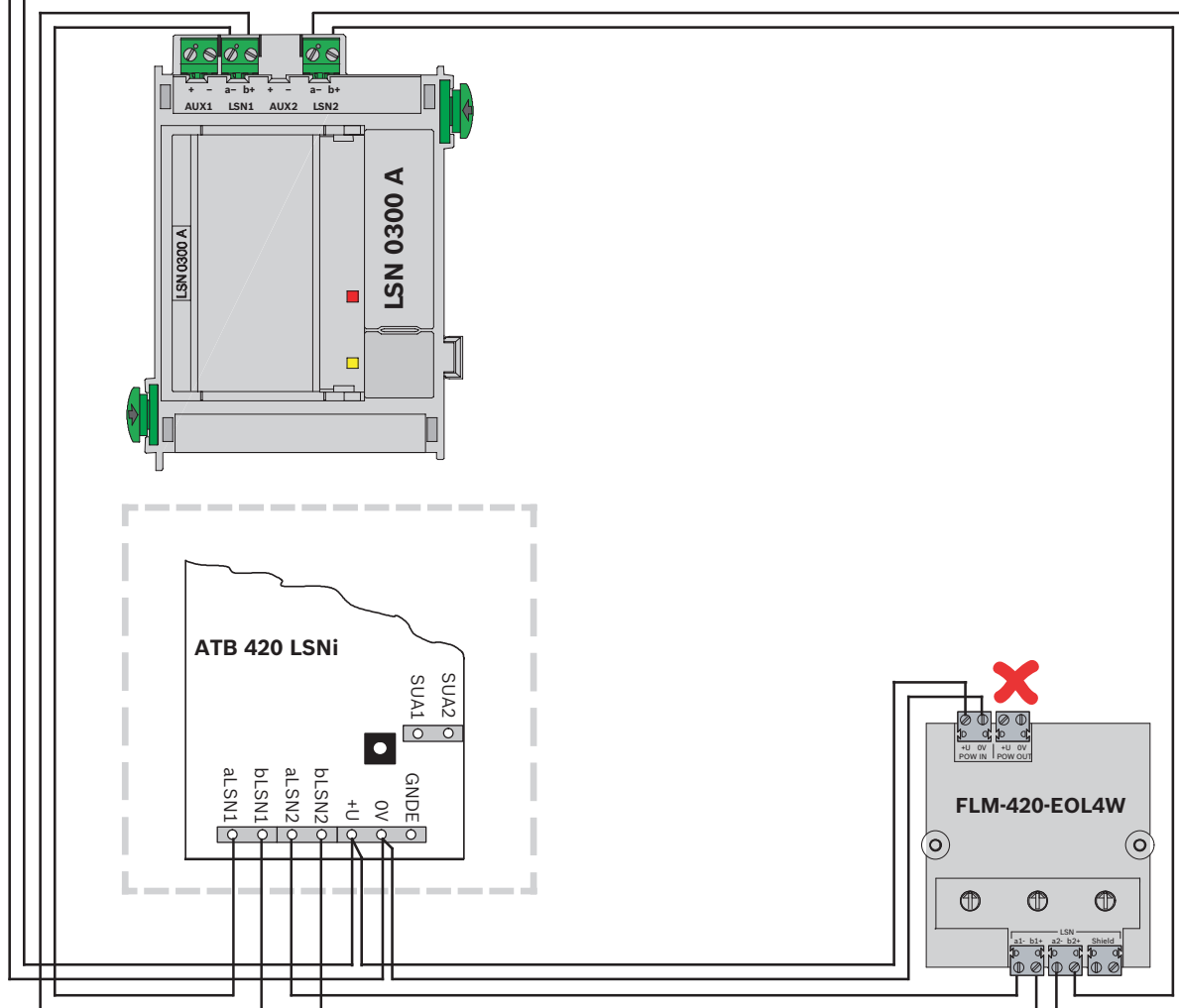
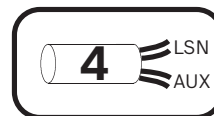
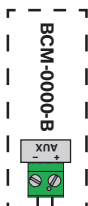




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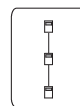


ELS VdS 2489

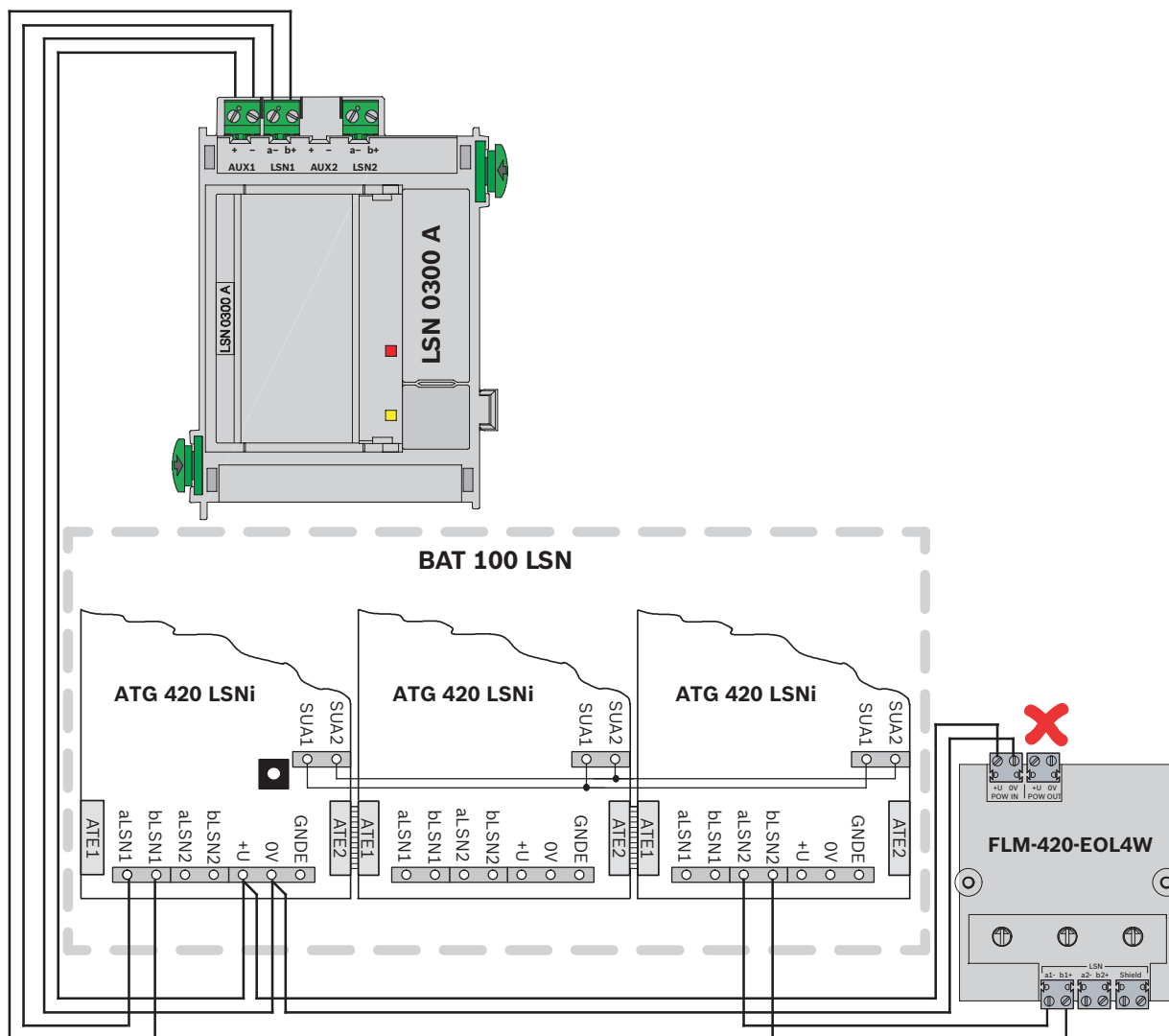
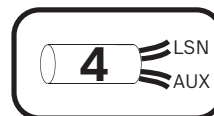




BAT 100 LSN
ATG 420 LSNi

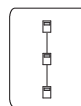


ELS VdS 2489

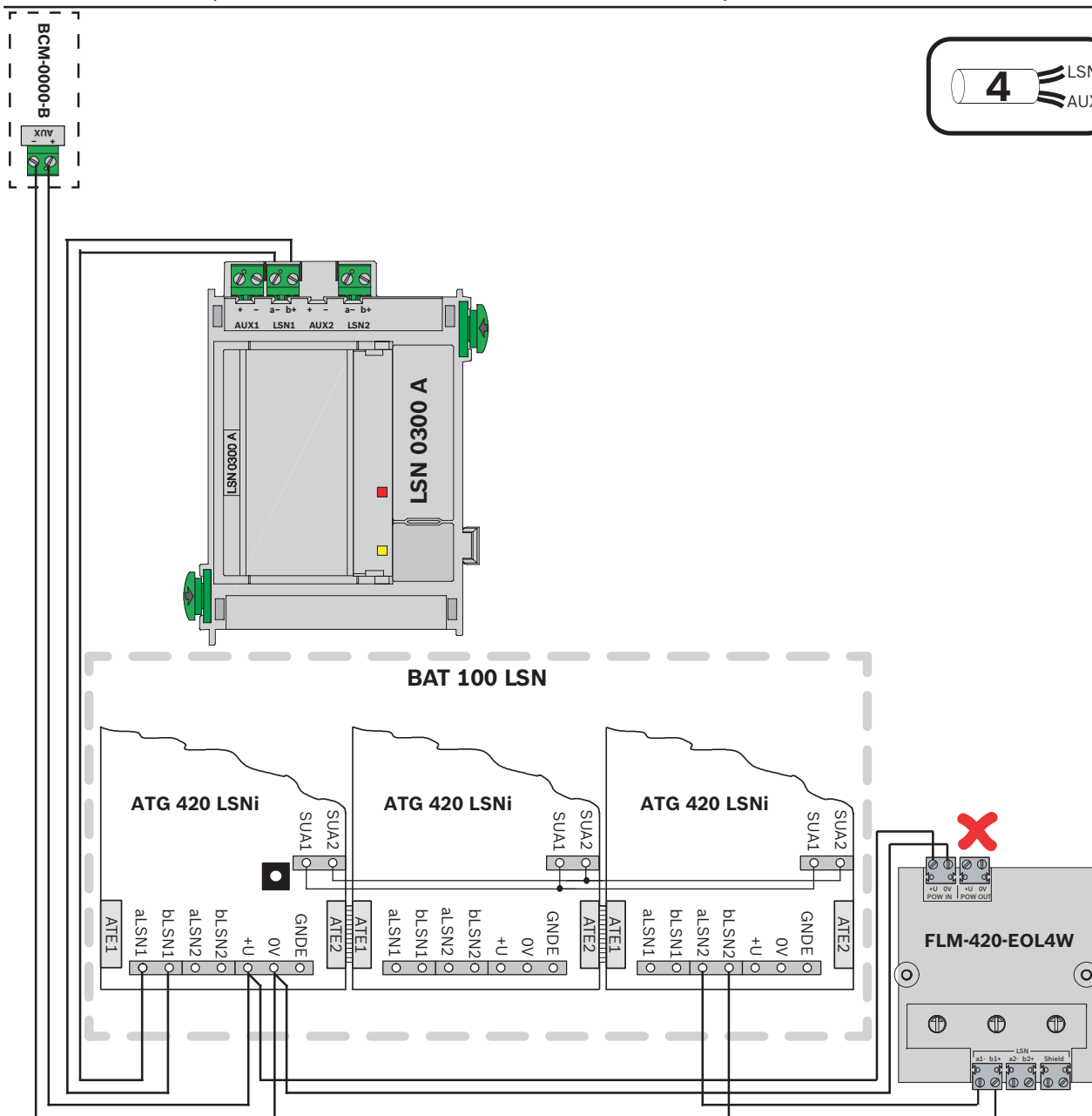




BAT 100 LSN
ATG 420 LSNi

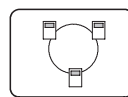


ELS VdS 2489

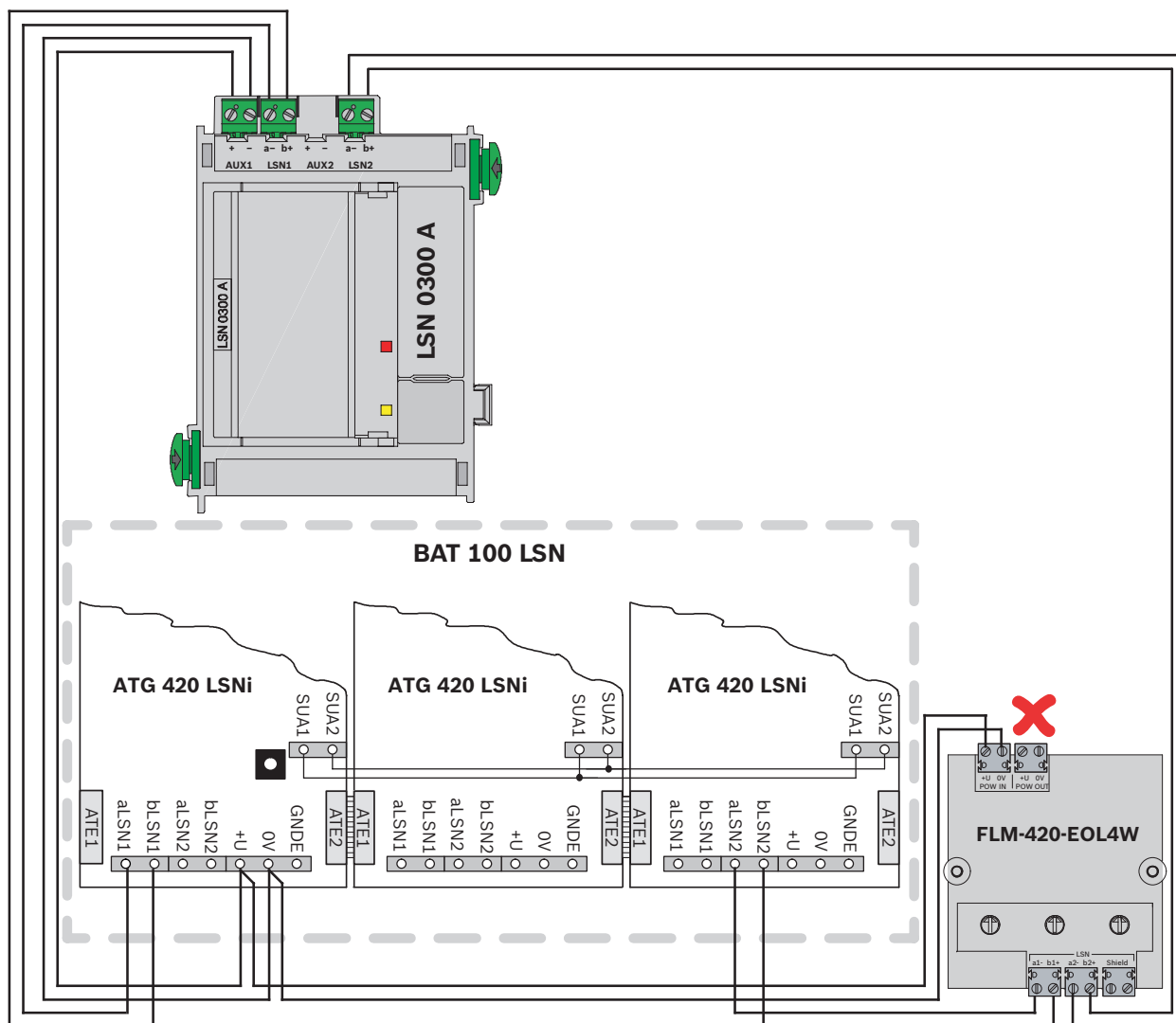
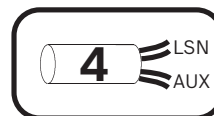




BAT 100 LSN
ATG 420 LSNi

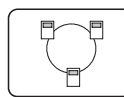


ELS VdS 2489

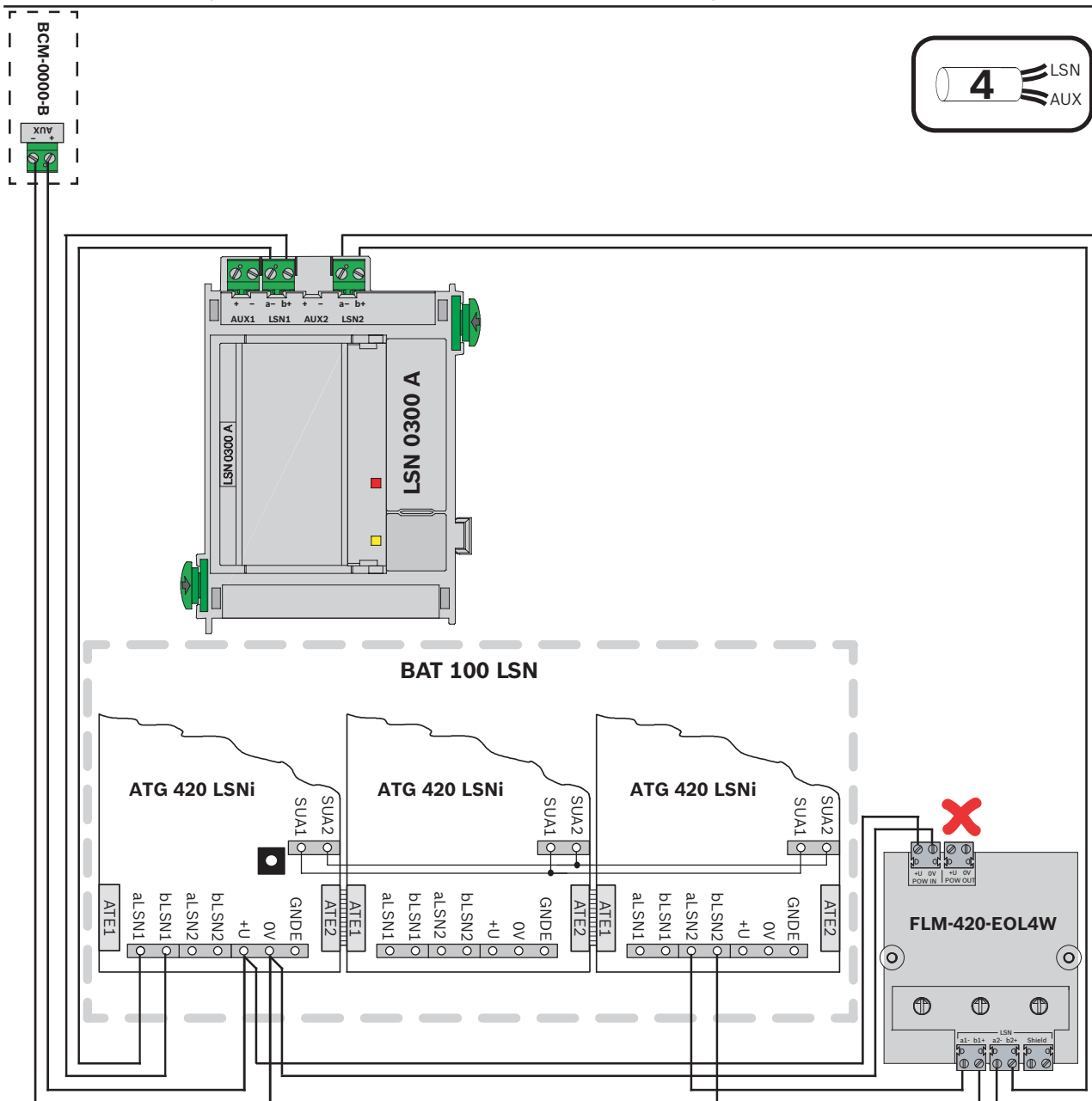
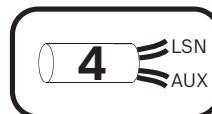


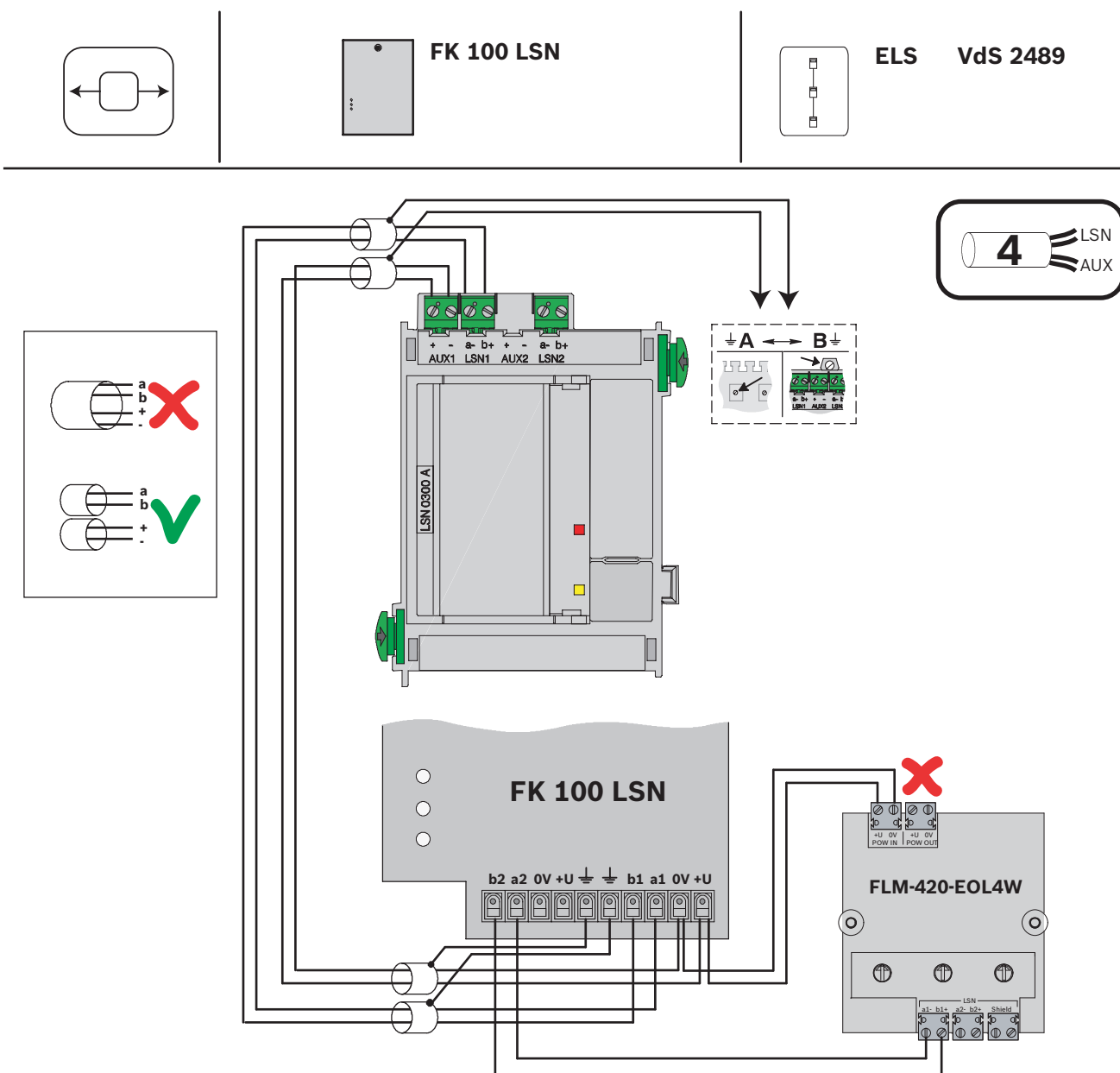


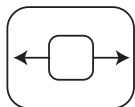
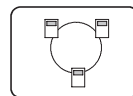
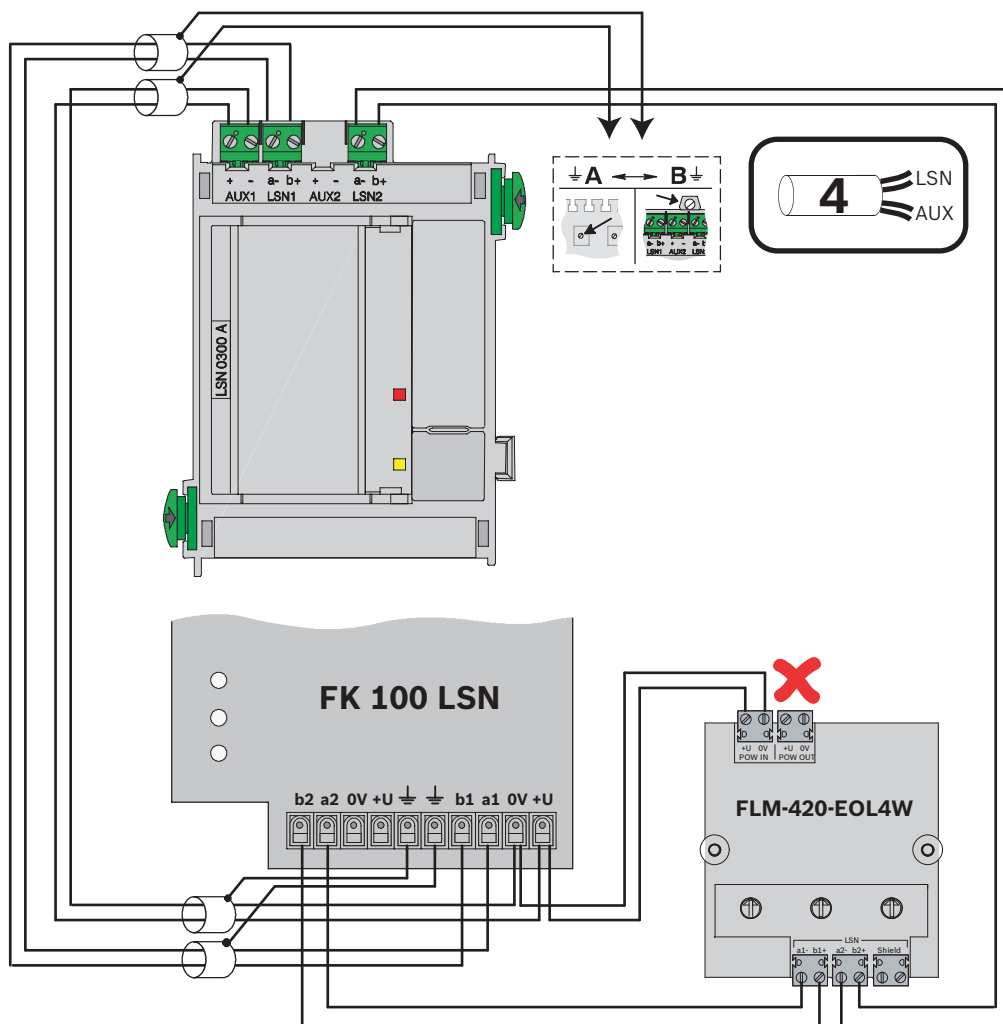
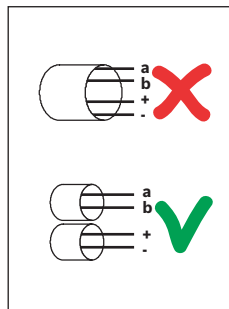
BAT 100 LSN
ATG 420 LSNi

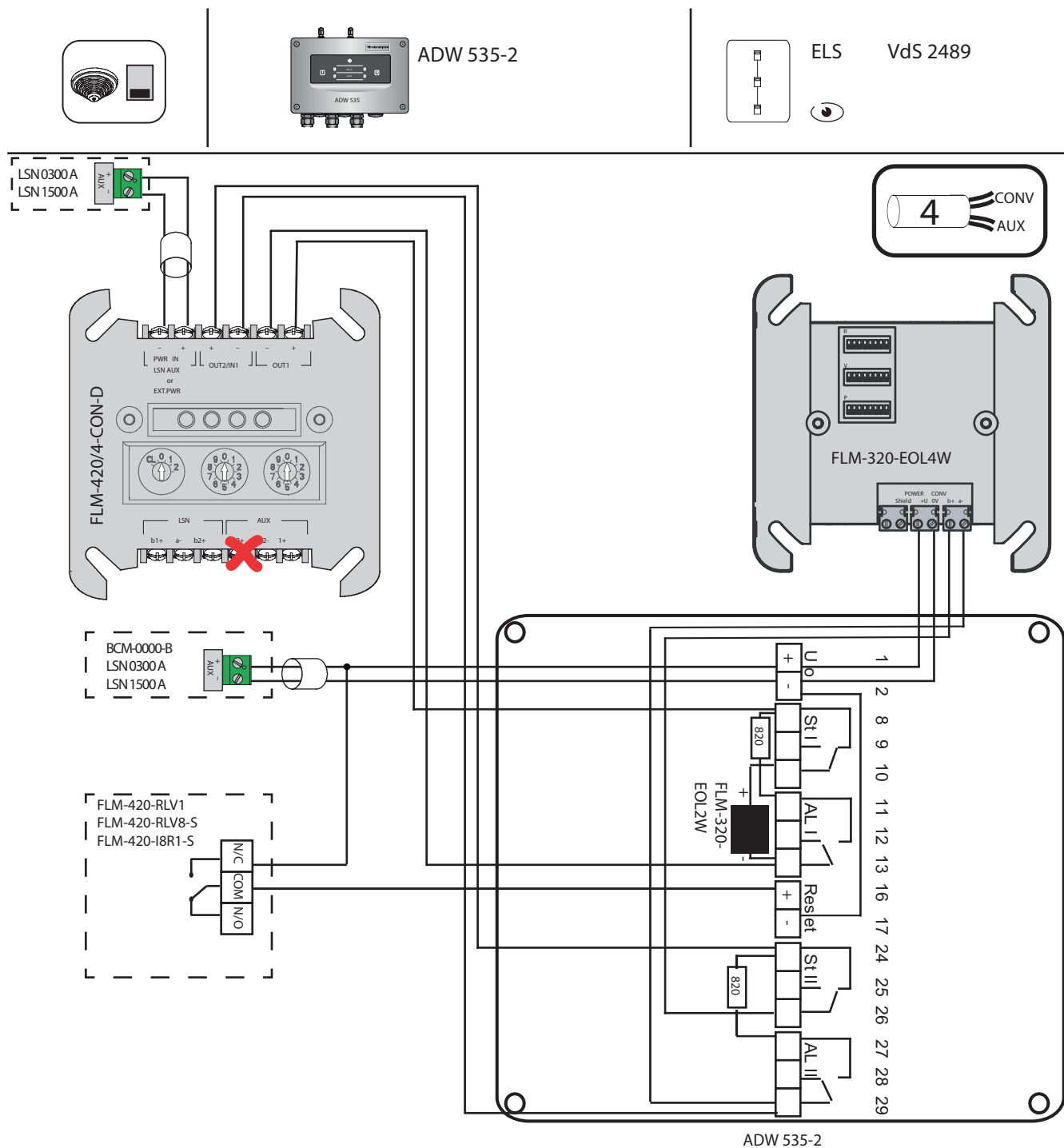


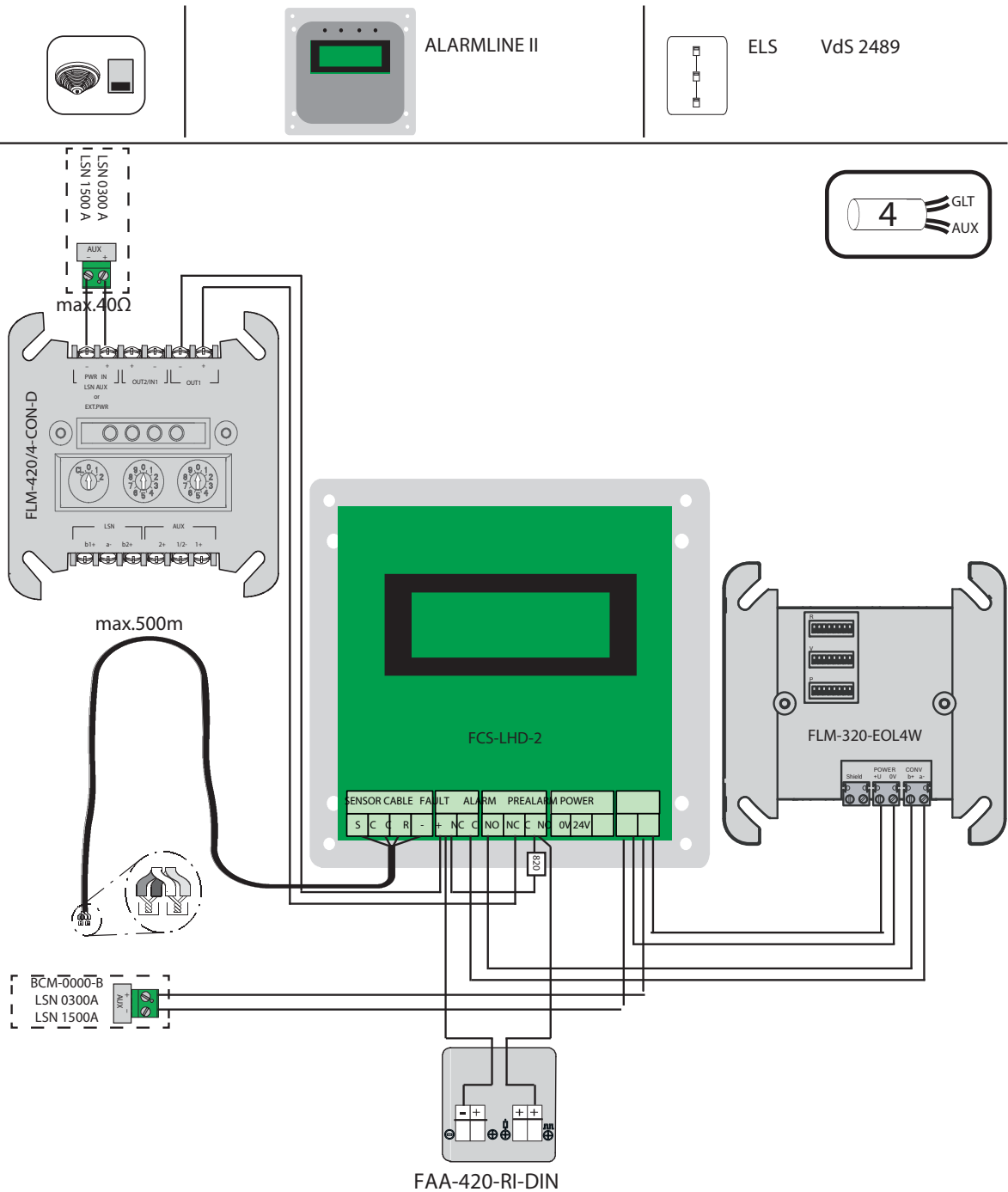
ELS VdS 2489

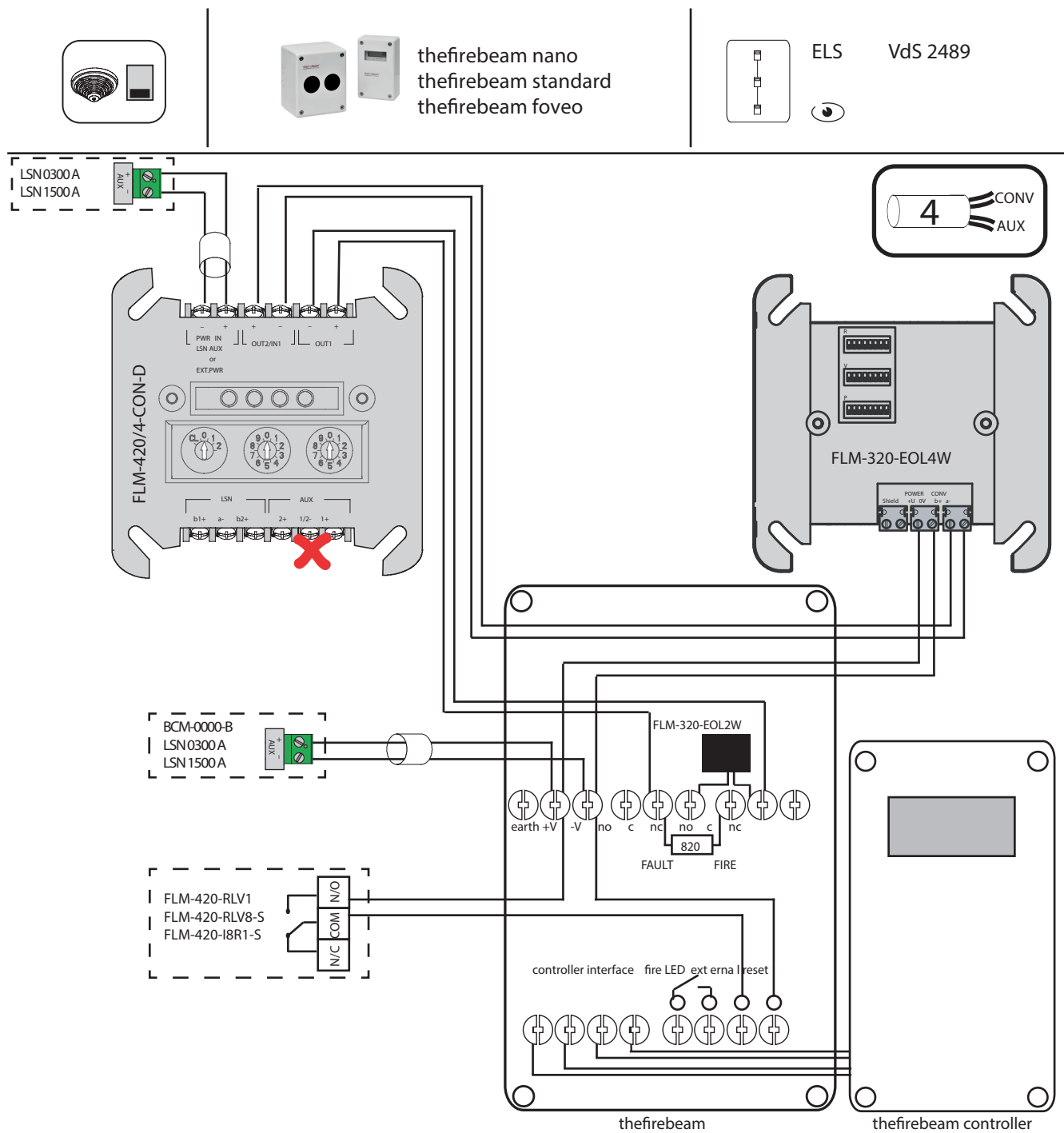


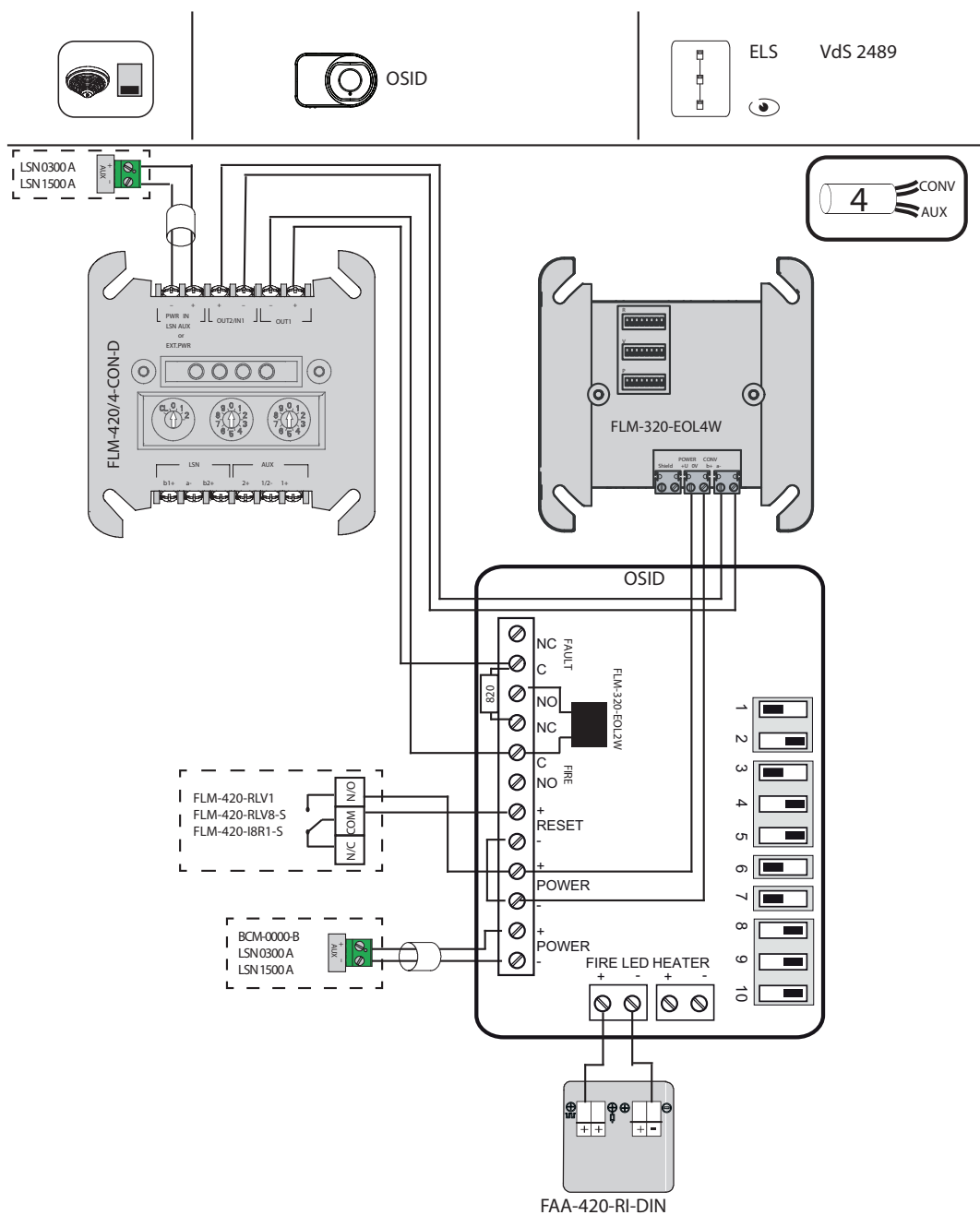


**FK 100 LSN****ELS VdS 2489**



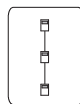






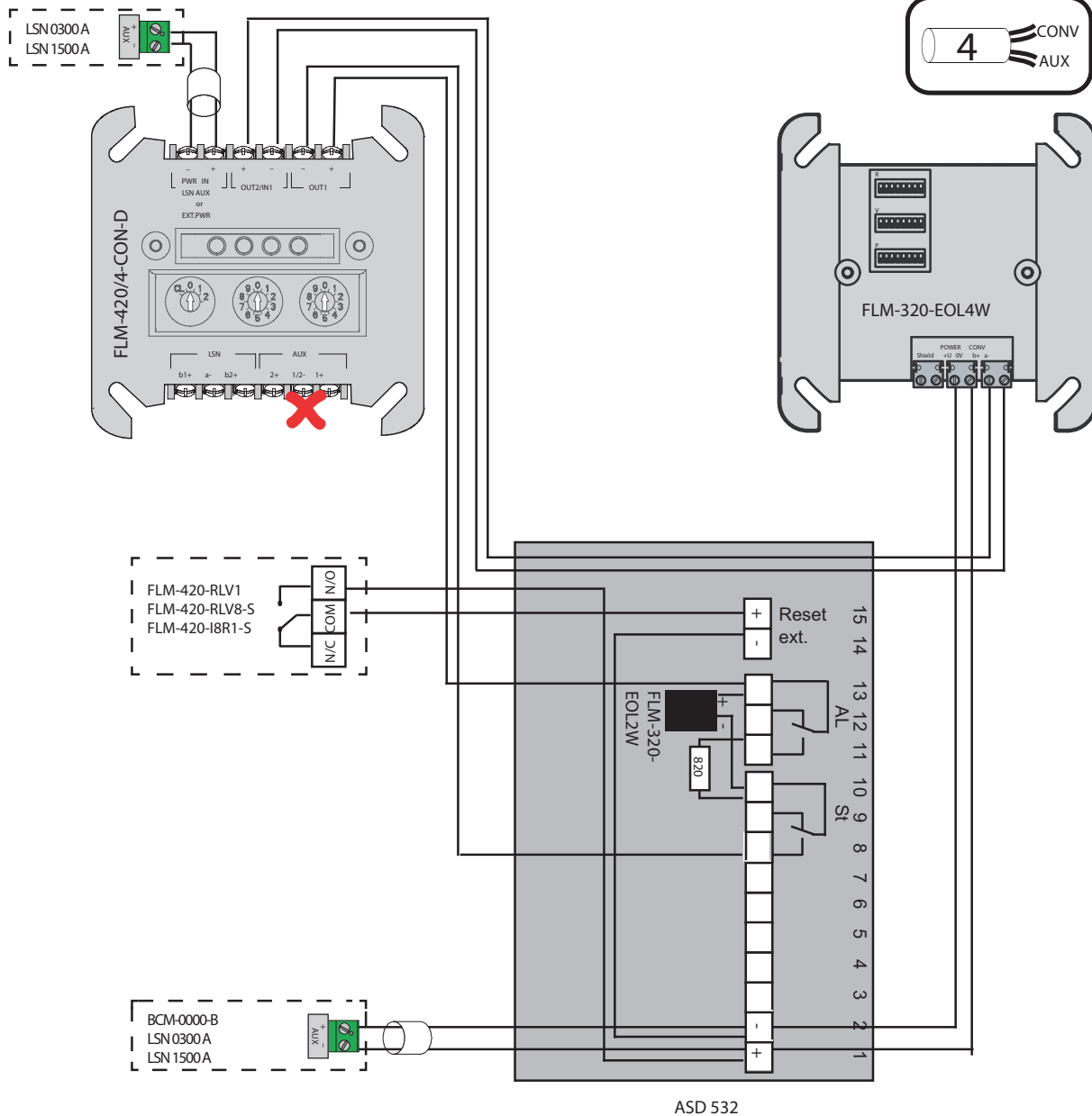


ASD 532



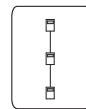
ELS

VdS 2489



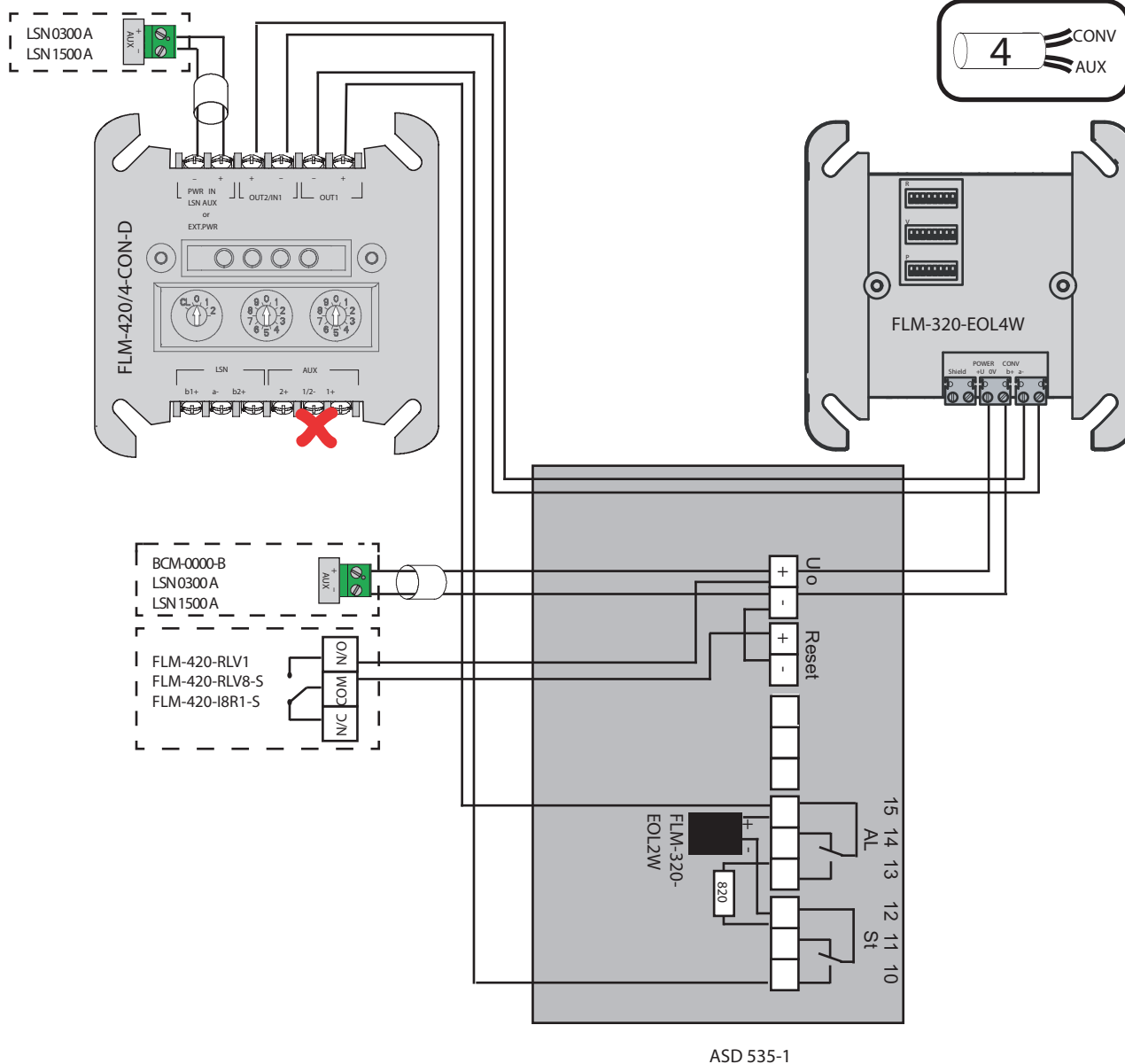


ASD 535-1



ELS

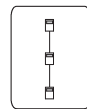
VdS 2489



ASD 535-1

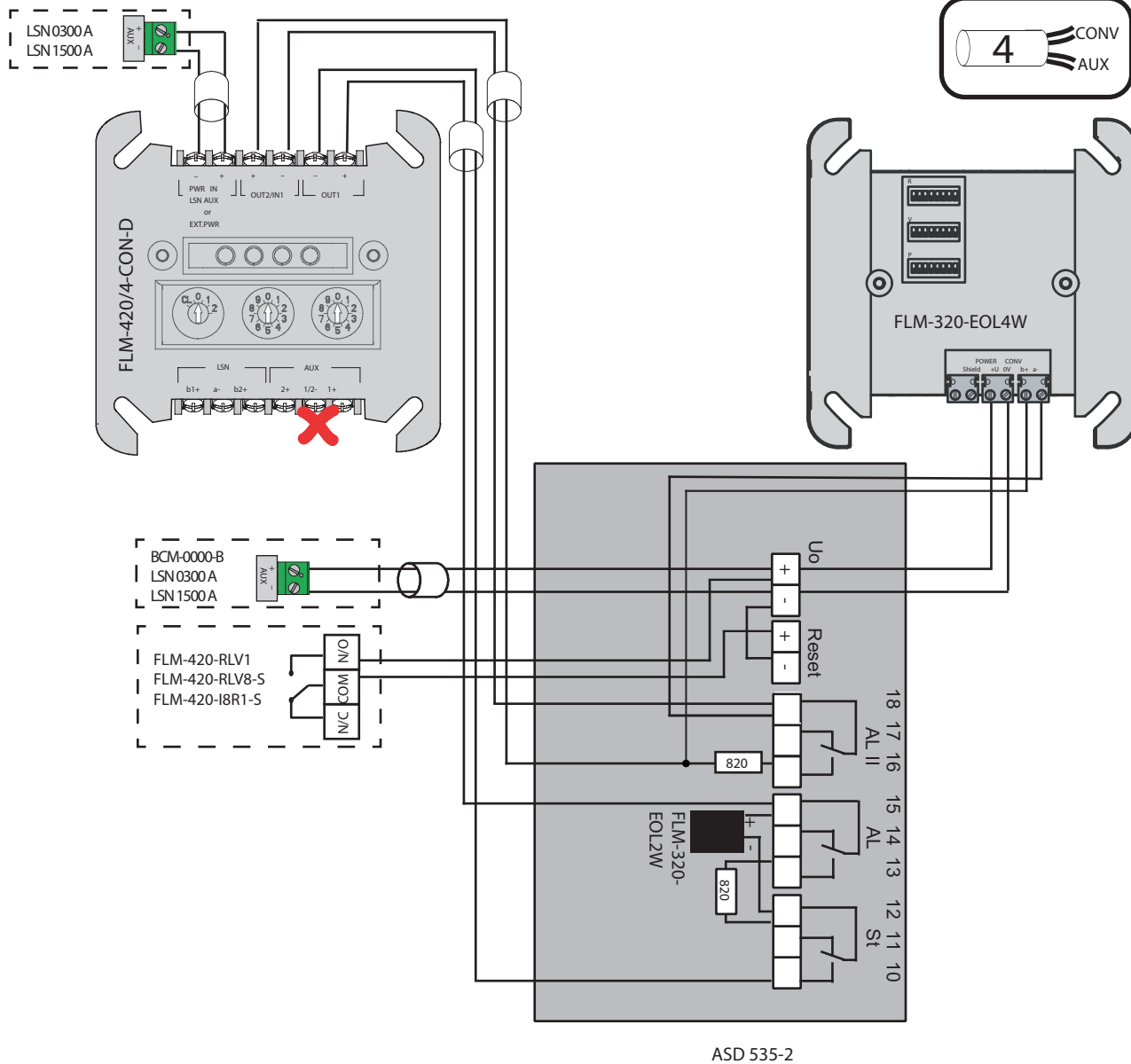


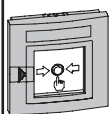
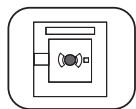
ASD 535-2



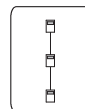
ELS

VdS 2489



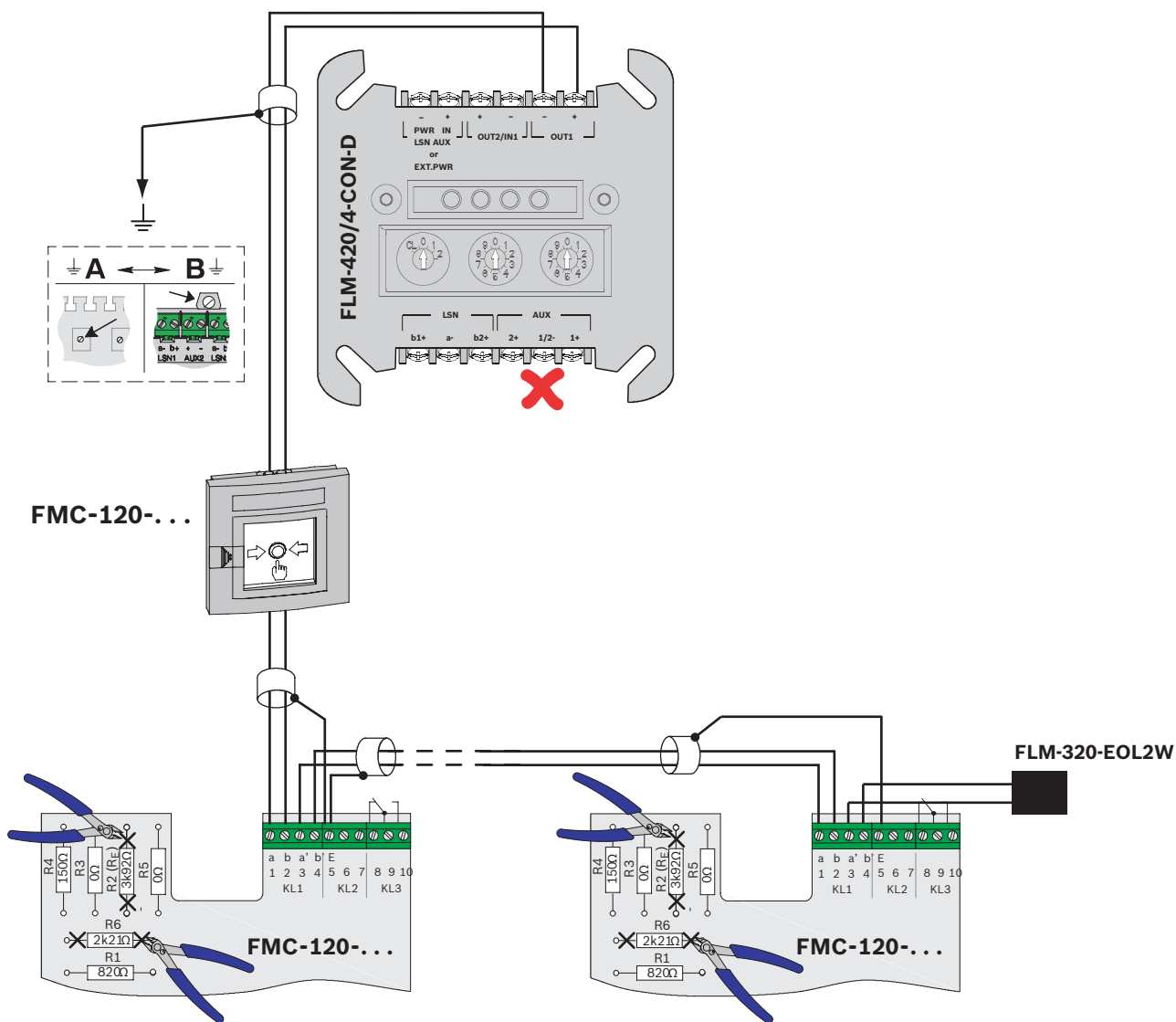


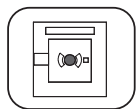
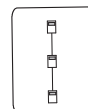
FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



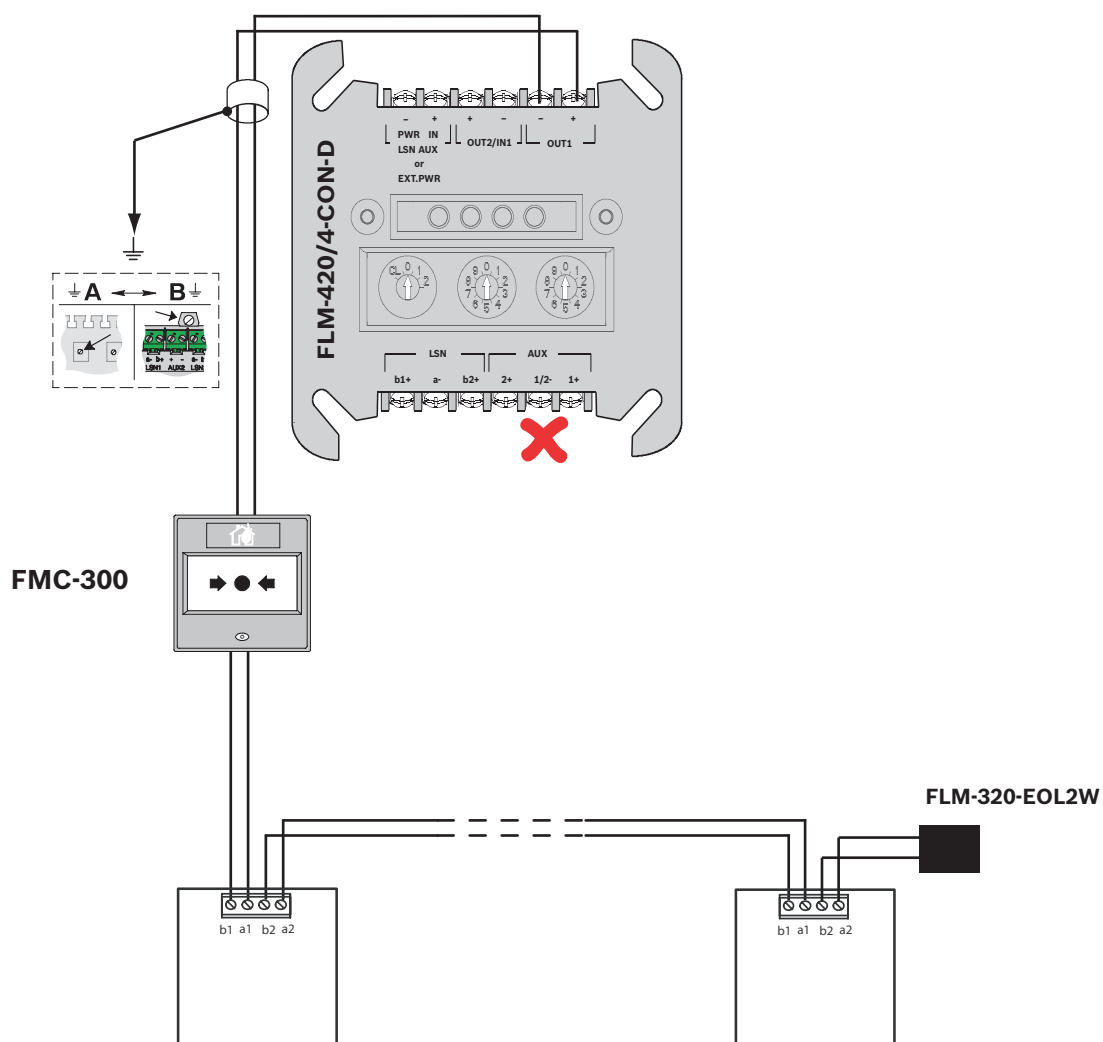
ELS

VdS 2489



**FMC-300**

ELS VdS 2489

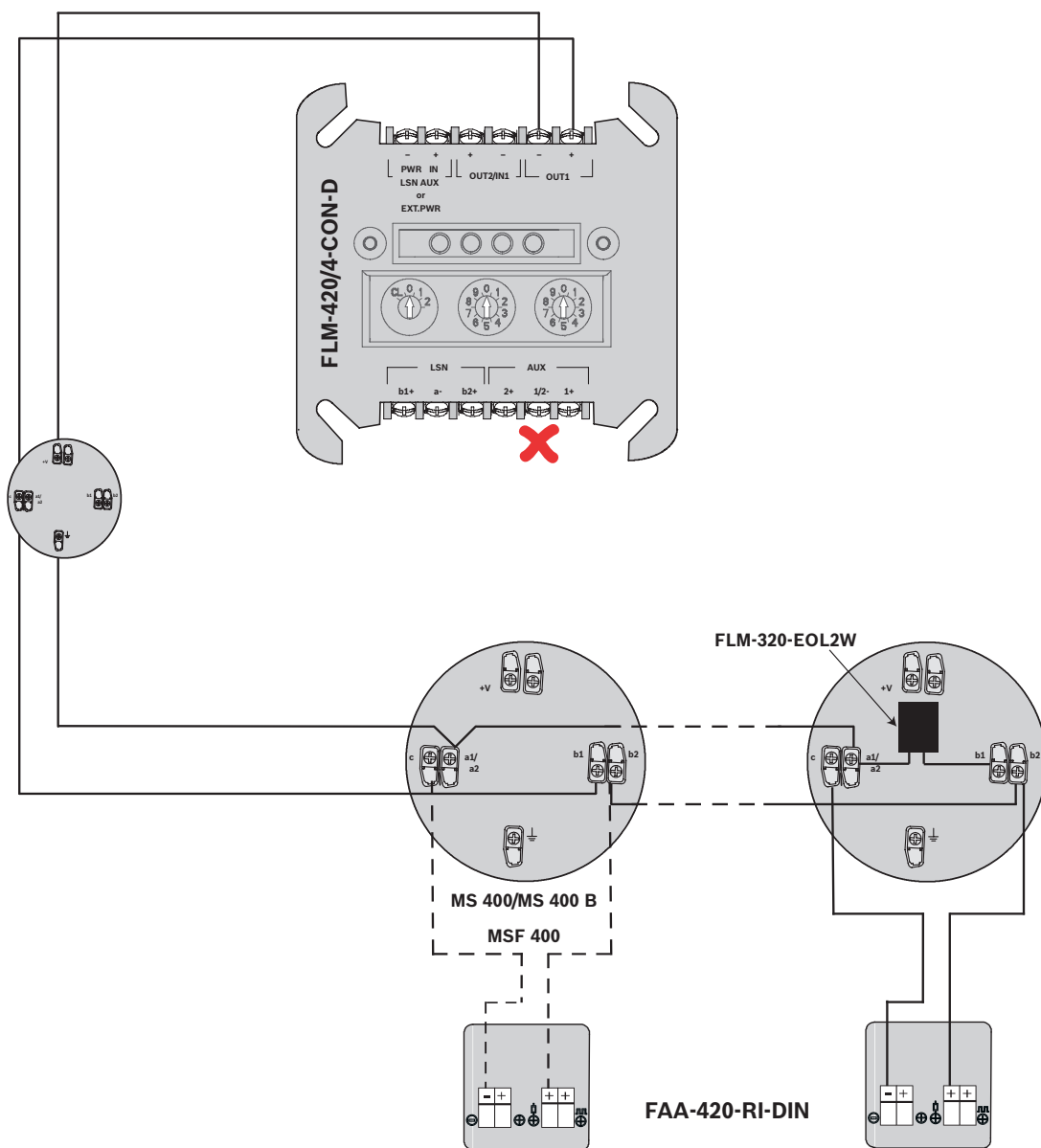




FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



ELS VdS 2489





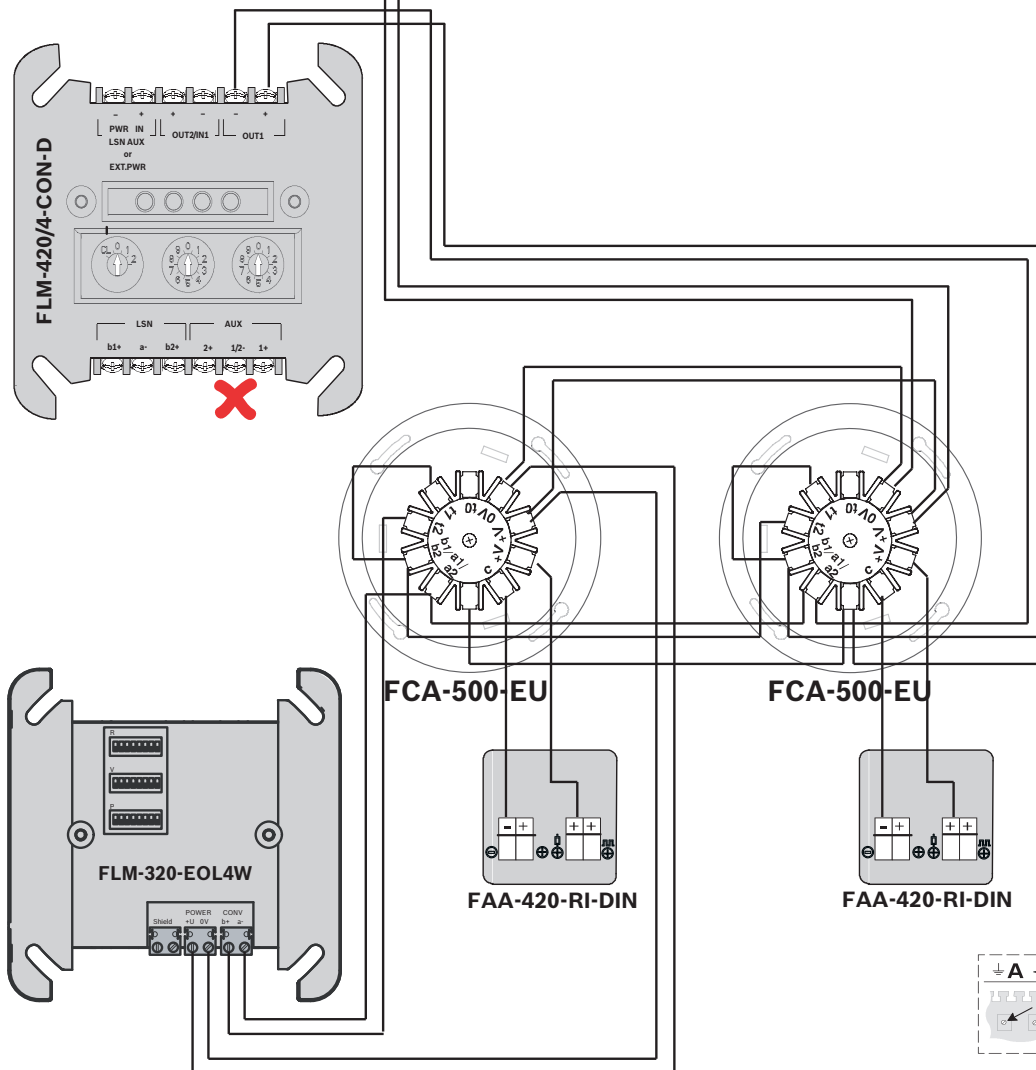
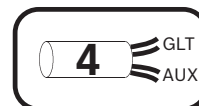
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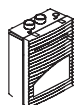


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BCM-0000-B
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FCS-320-TM Series

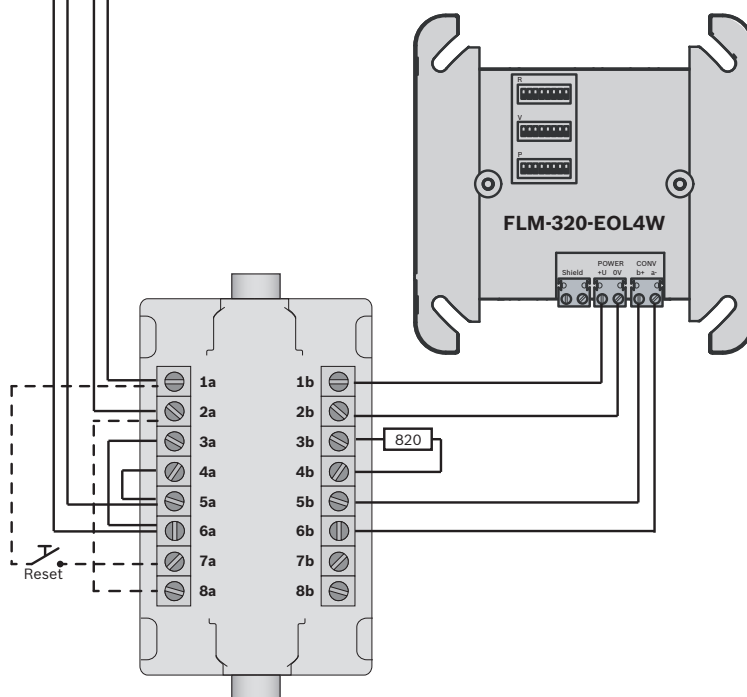
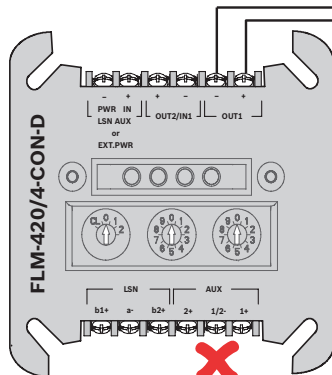


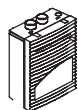
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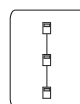
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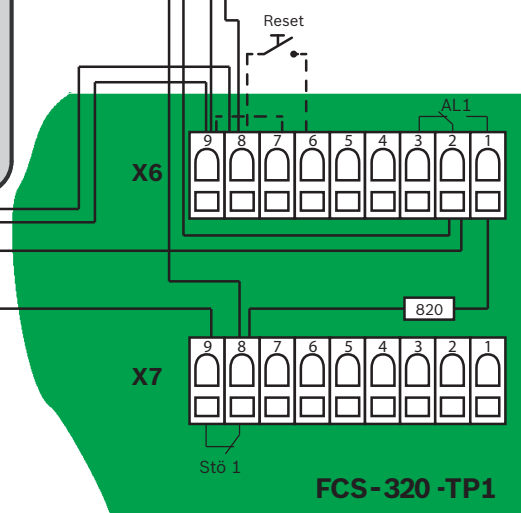
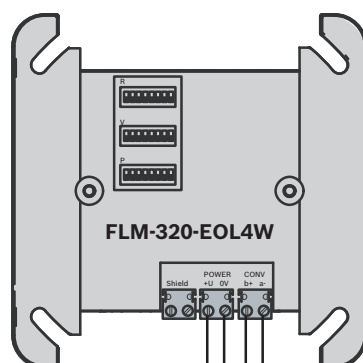
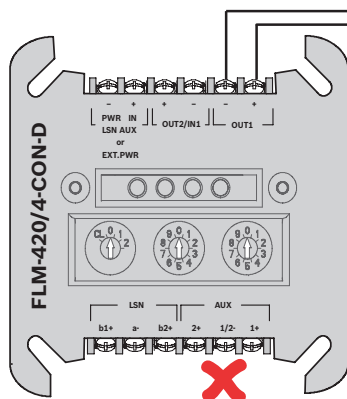
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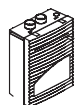


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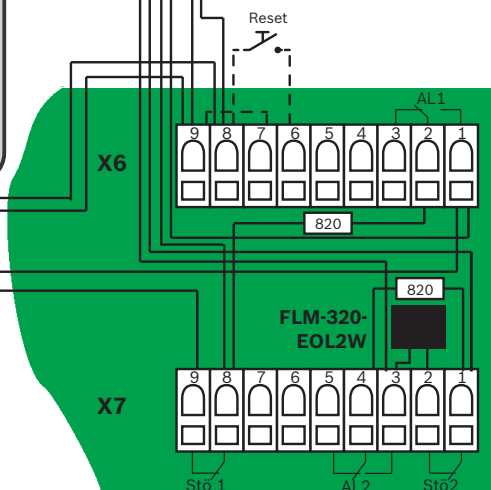
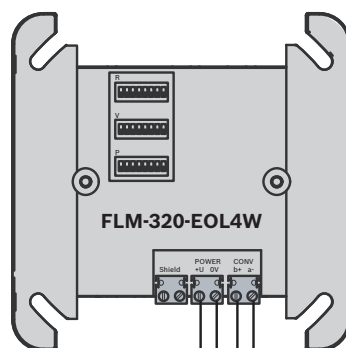
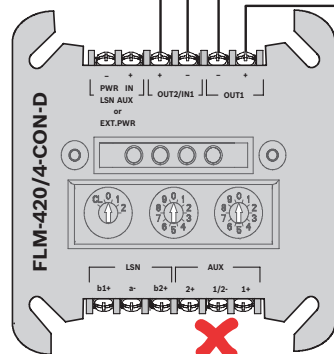
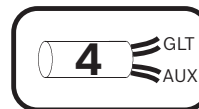
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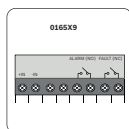
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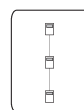
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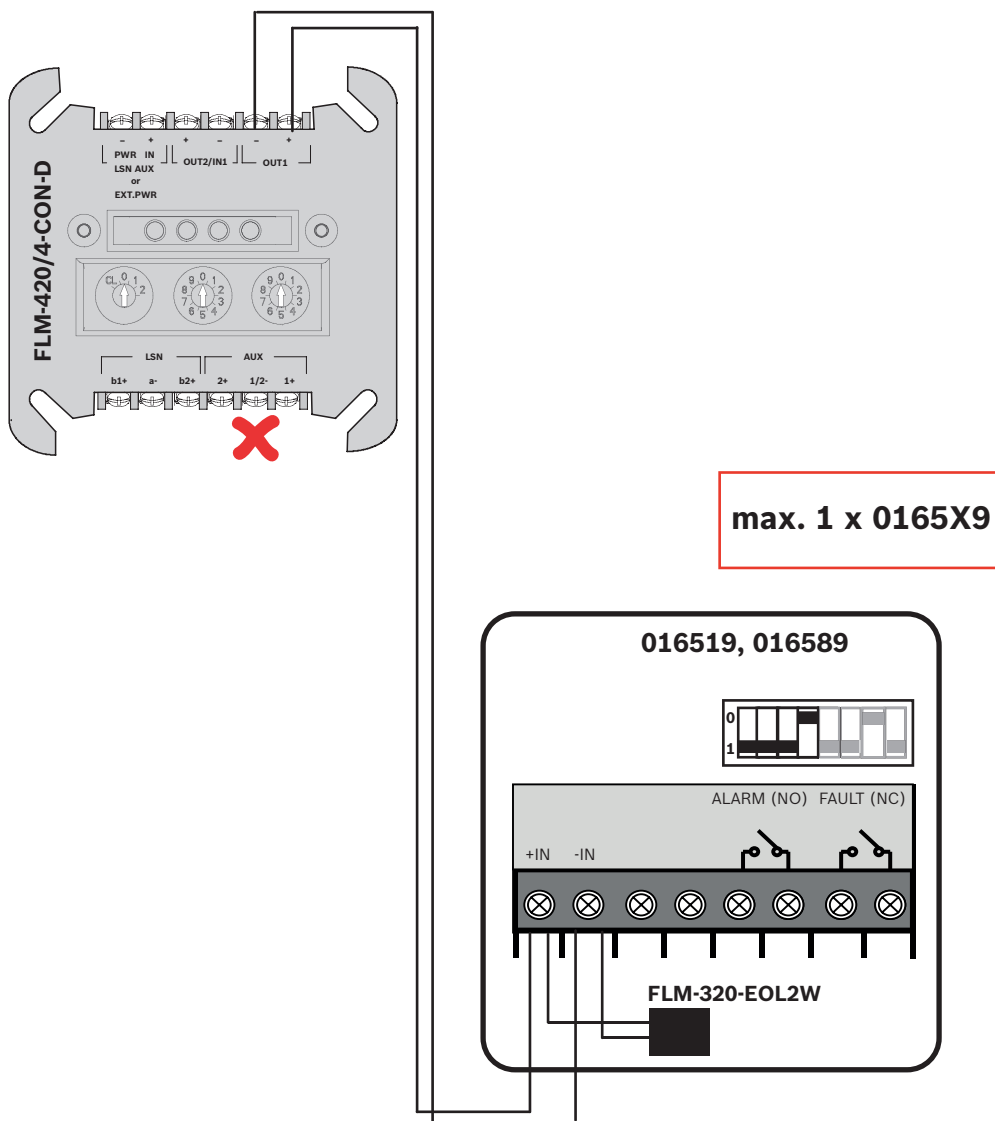
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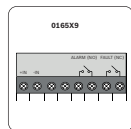


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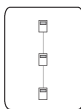


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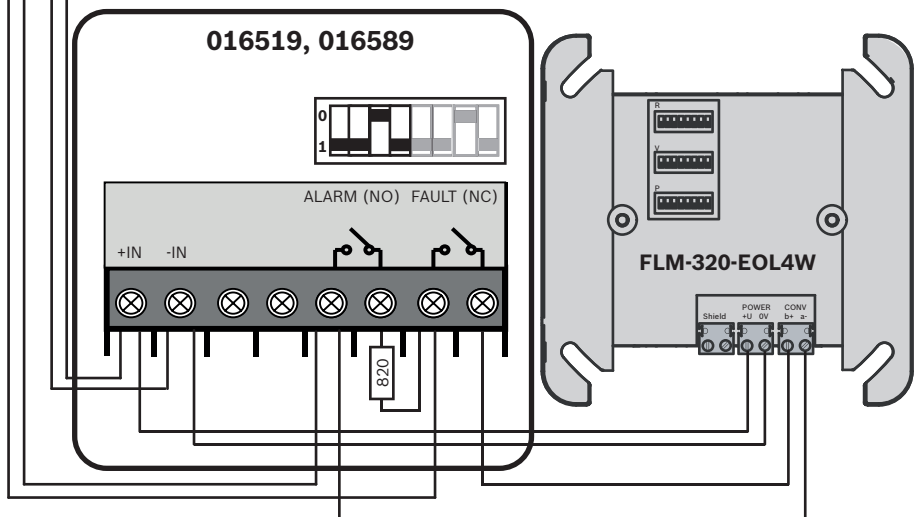
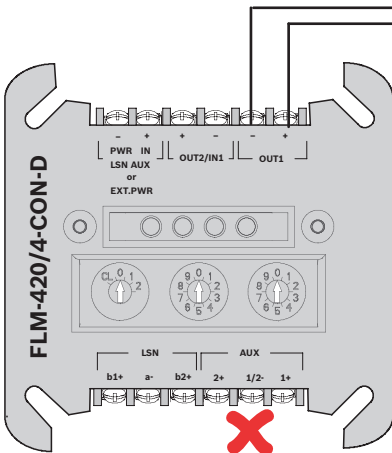
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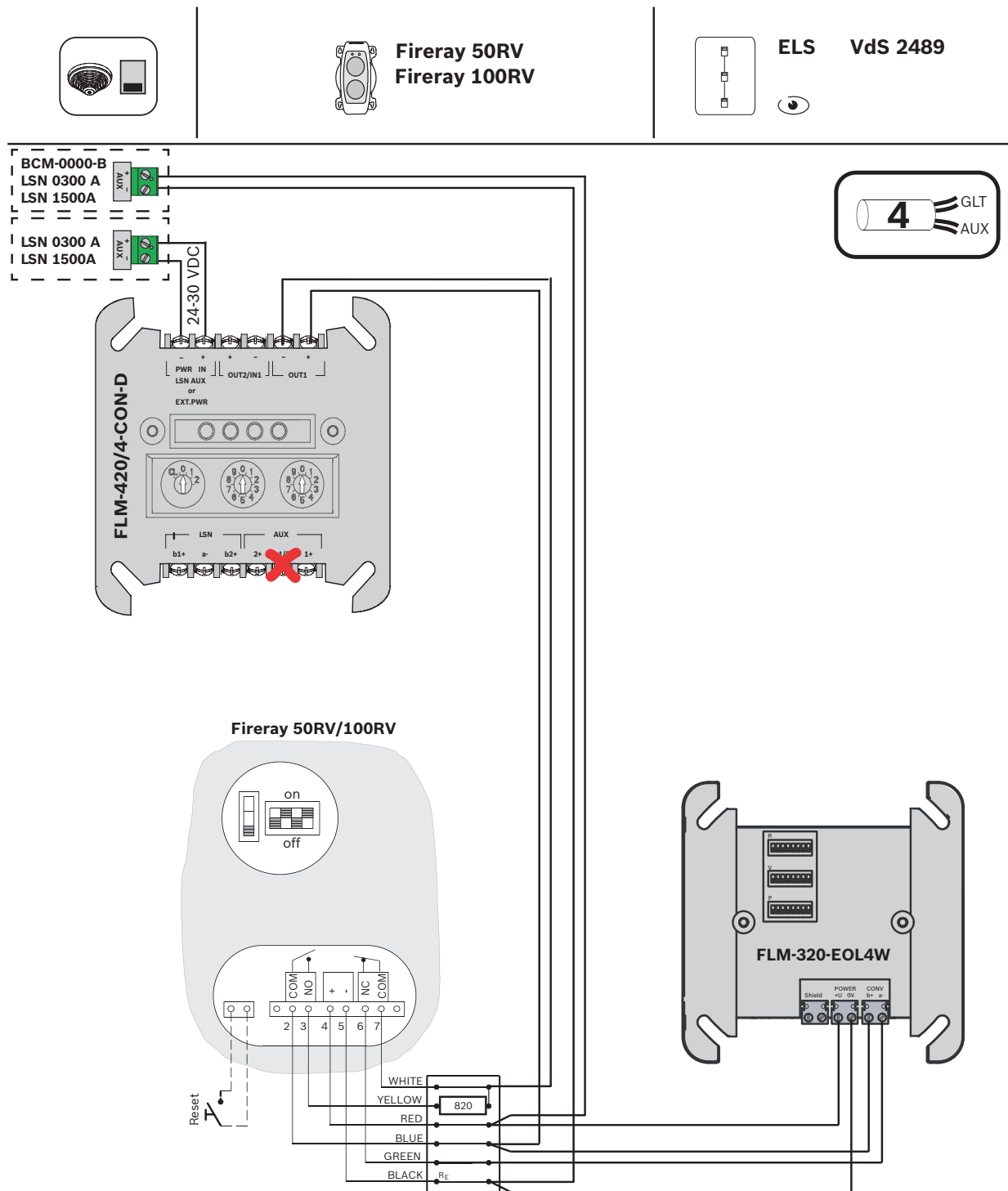


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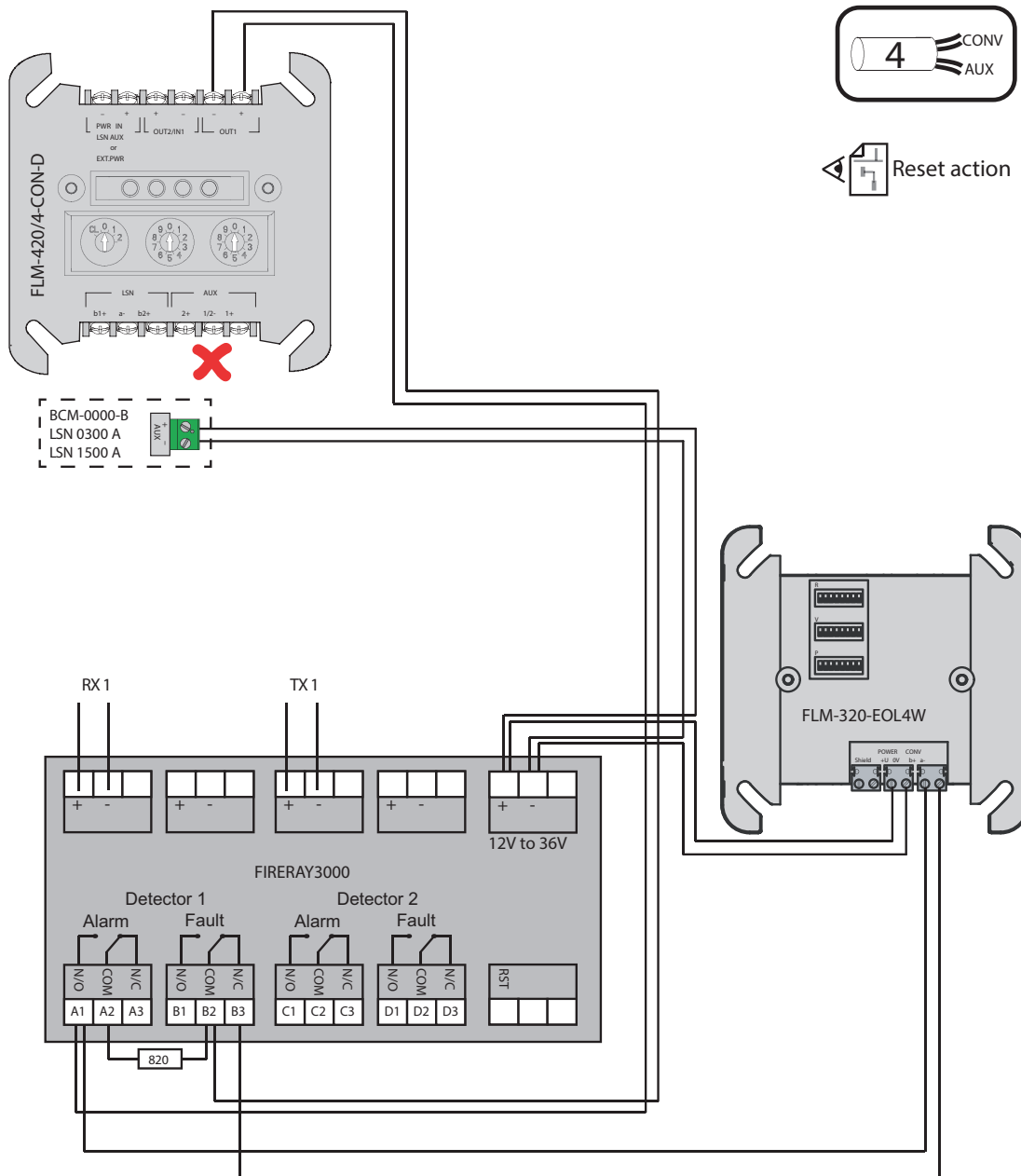
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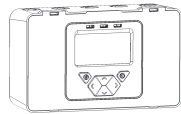
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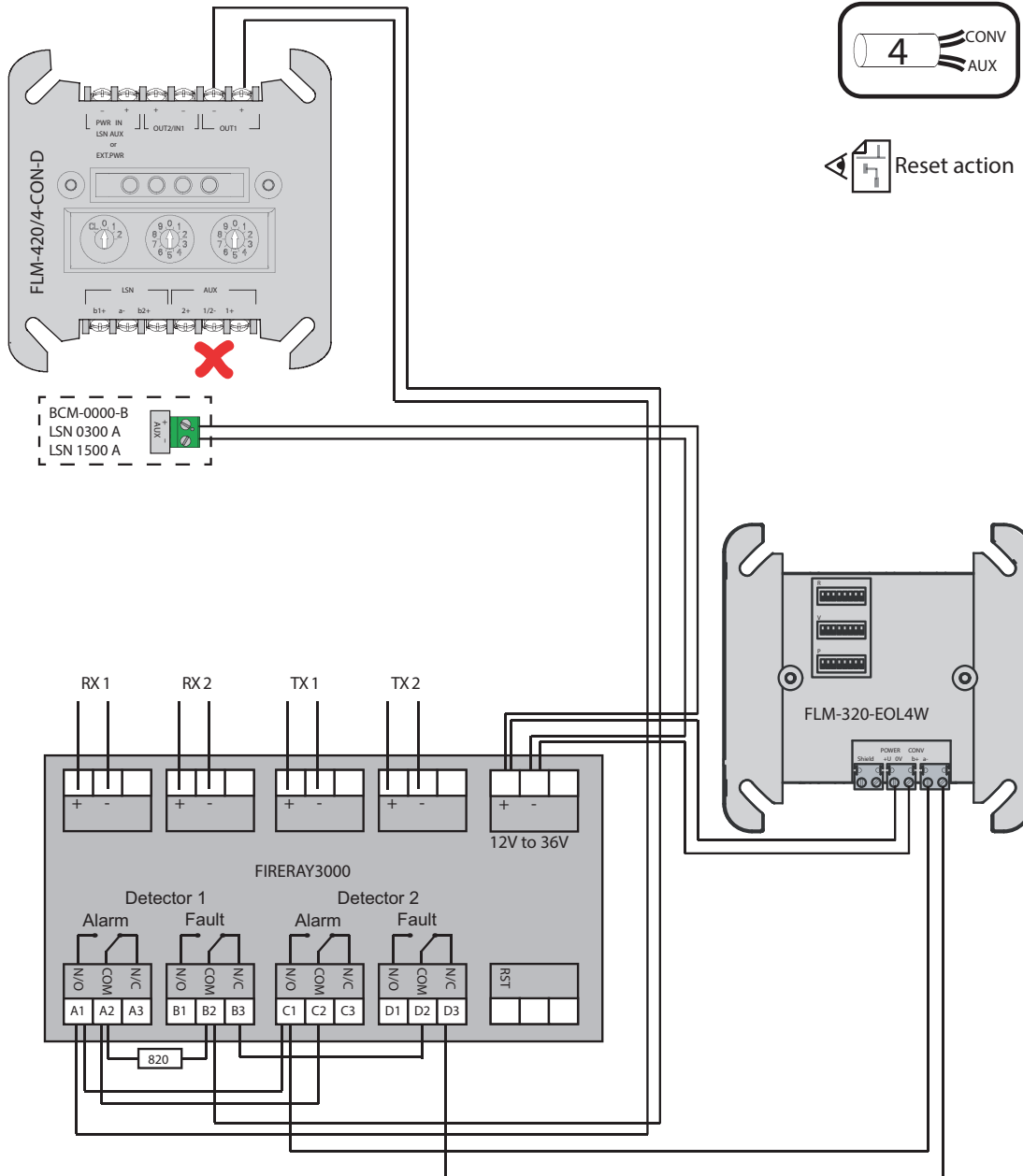
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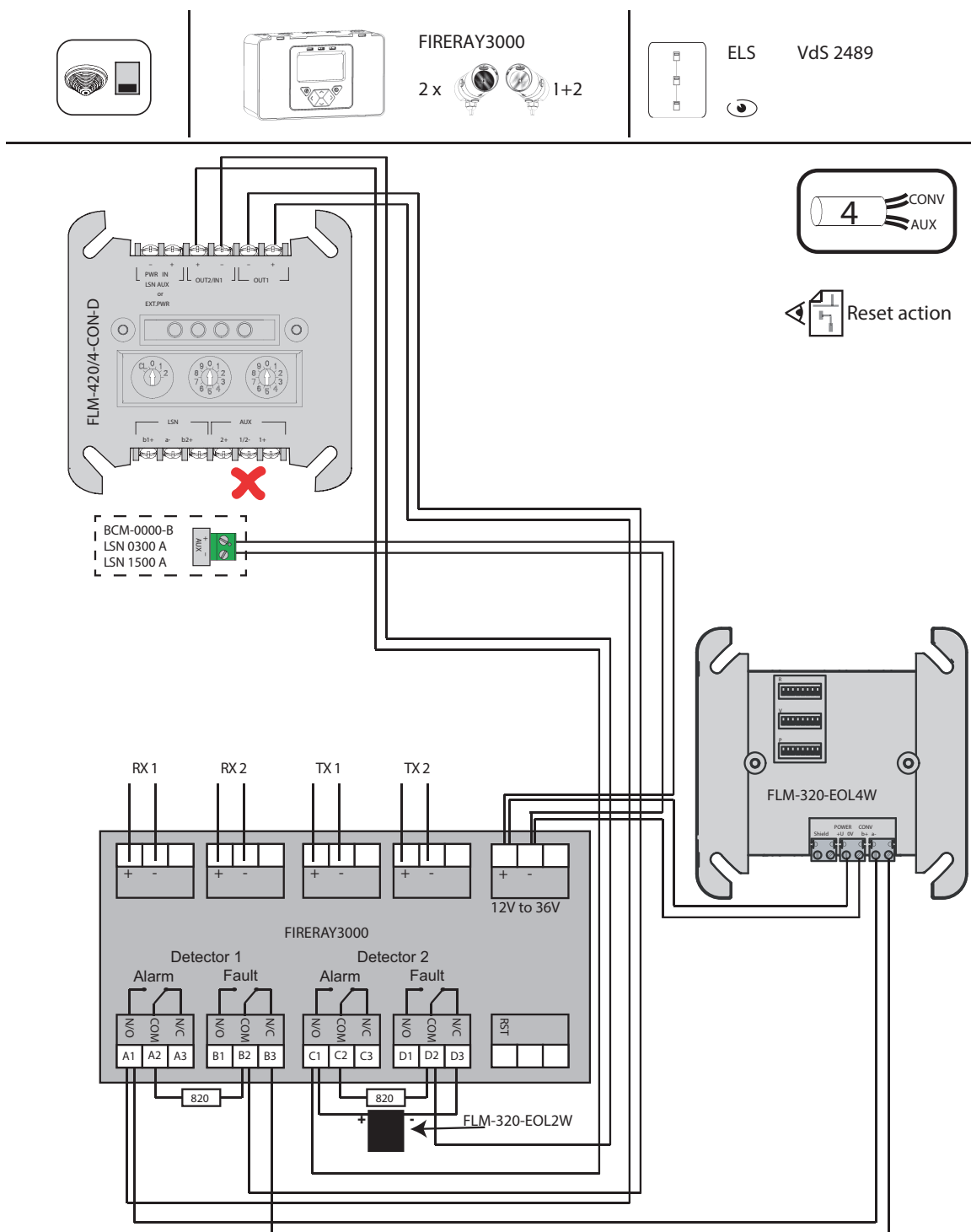
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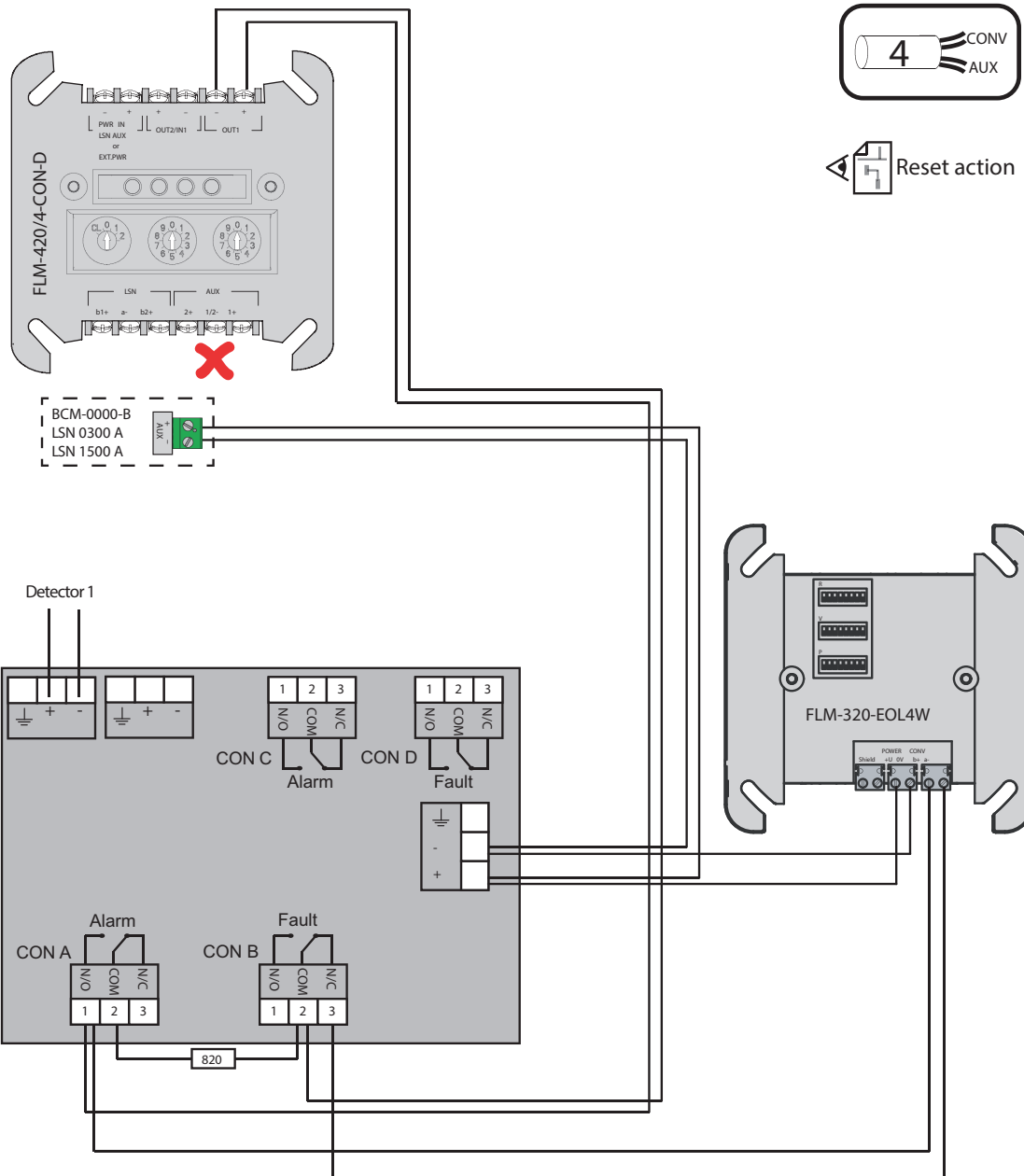
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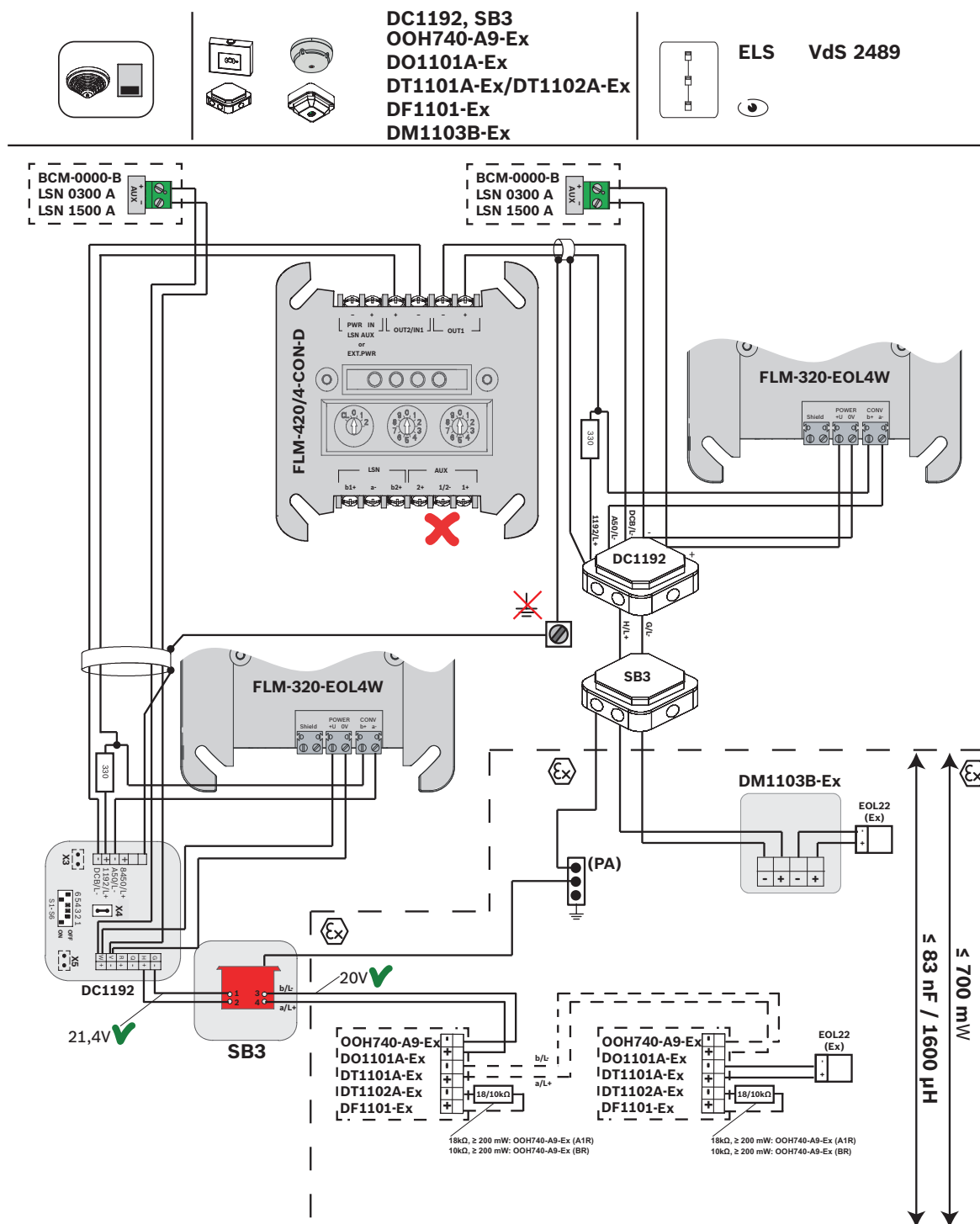
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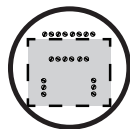


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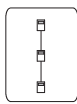
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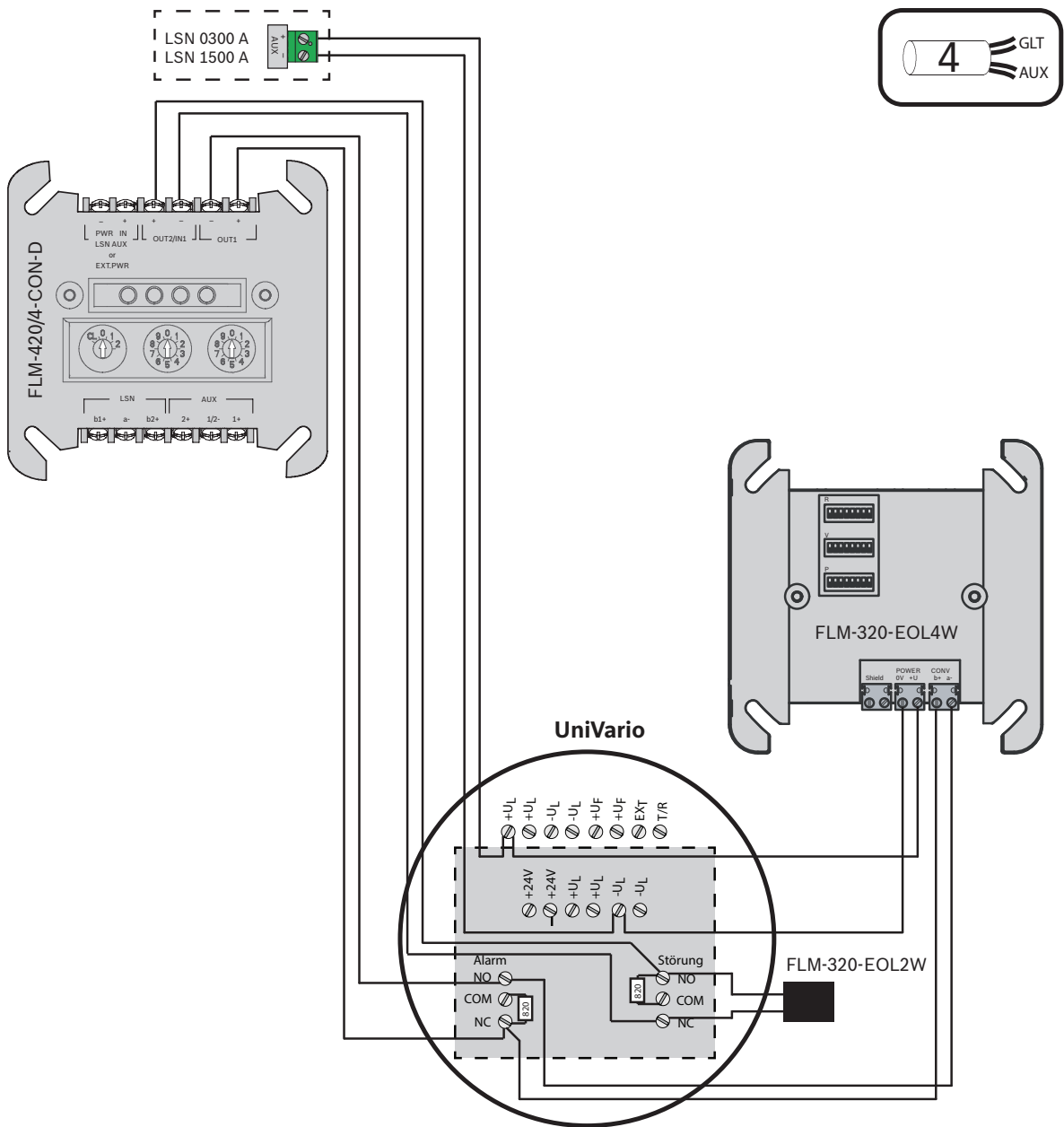




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