

Modular Fire Panel

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 (erroneous 2k2 relais indication)
 FLM-420-NAC-D/S -> LSN 0300 A (Flush symbol added)
 Fireray 50RV & 100RV -> FLM-420/4-CON/D (LSN AUX added)
 2 x FCP-500 -> FLM-420-NAC (switched wires)

Deleted

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

New

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

1.8

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

12.7 -> 12.8**New**

AT5000 -> ENO 0000 B

Changed

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

Naming:

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

ELS descriptions in 2.4.2 (DE, EN)

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

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

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

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

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

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

FLM-420-O1I1 -> LSN 0300

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

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

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

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

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

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

Reset action

5 x FAT4000 (shield)

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

Deleted

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

Section Networking (see Networking guide)

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

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

37 x 2-wire cabling -> CZM 0004 A

2 Notes

2.1 Content

This Wiring Guide shows how peripheral devices are connected to the fire panel. Peripheral devices that are no longer included in the product range are covered in "Part 2 - Discontinued Products" of the Wiring Guide.

**Notice!**

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

**Notice!**

The LSN 0300 A connections laid out in this document also apply to the LSN 1500 A module.

2.2 Product Information

- You can find installation instructions for the individual components of the fire panel in the enclosed Installation Manual.

2.3 Important Notes

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

**Danger!**

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

**Notice!**

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

- Connect LSN cable shield on panel side to designated functional earth connector. The shield of both sides (start and end) of the loop must be connected to the panel
- Loop through cable shield at all LSN peripheral devices using provided terminals
- No additional connection of LSN cable shield is permitted, neither to earth connectors at any location nor to other electrical potential

2.4 User Notes

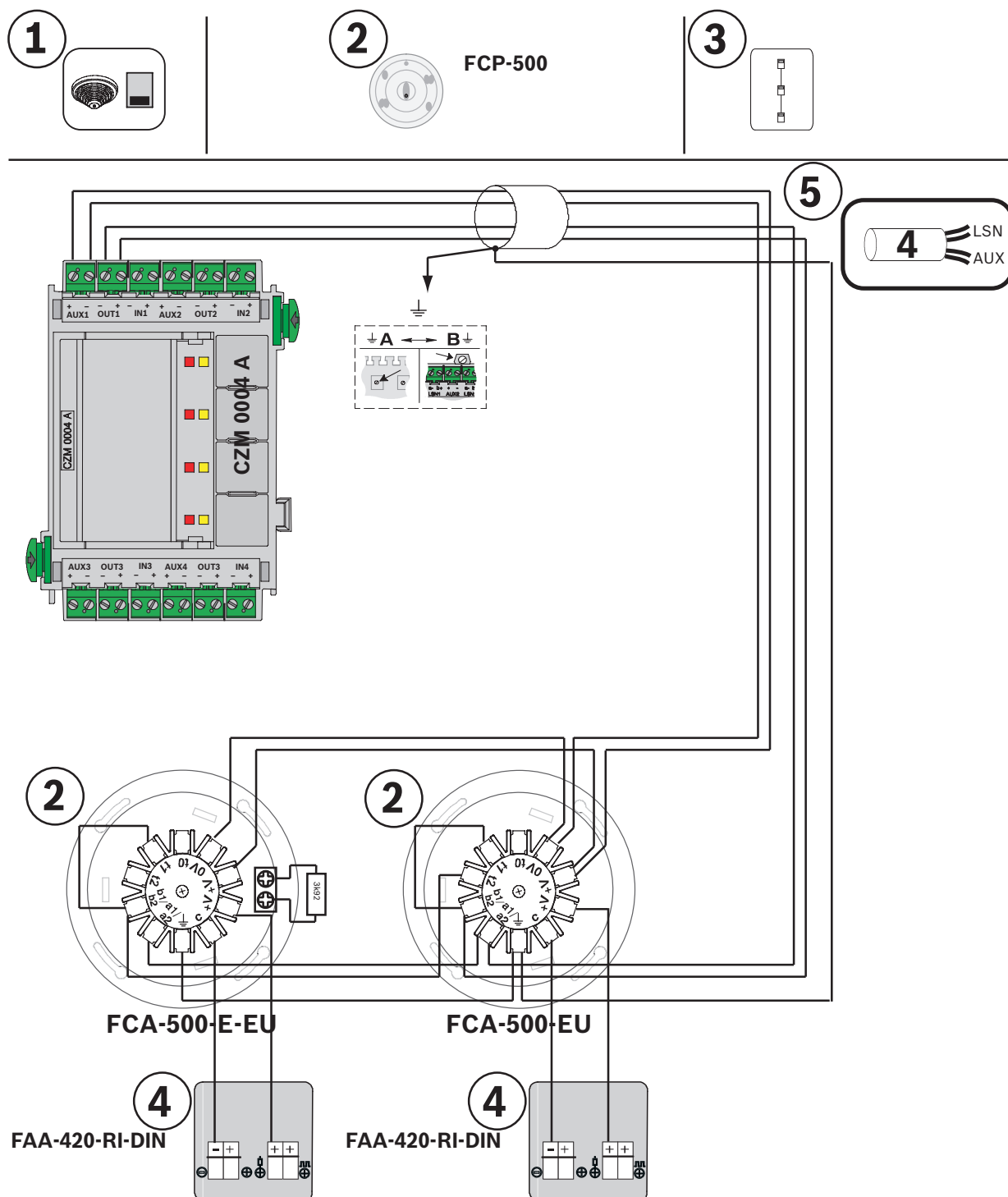
The wiring guide is structured as follows:

- Chapter *Wiring, page 17* is sorted by the device to which a peripheral device is connected. A wiring shows the direct connection of one device to another device (no cascading connections). Usually, shielding is not shown in the wirings. The sample wiring below demonstrates the shielding.
- Find a collection of all wirings which are enriched with additional EOL modules for creeping open monitoring in the section EOL.

To find the required wiring also use:

- the table of contents at the beginning of the chapter *Wiring*, page 17 and at the beginning of the sections *Functional Modules*, page 47, *Interface Modules*, page 135, and EOL.
- the Index (language neutral),
- and the full-text search.

See the following sample wiring:



1 Chapter symbols (*Chapter Symbols*, page 14)

2 Connectable peripheral device

3	Connection symbols (<i>Connection Symbols, page 14</i>)
4	Optional components
5	Power Supply and Wiring (<i>Power Supply and Wiring, page 15</i>)

Refer to

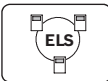
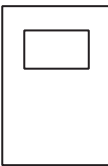
– EOL, page 179

2.4.1 Chapter Symbols

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

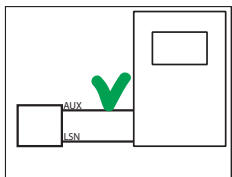
2.4.2 Connection Symbols

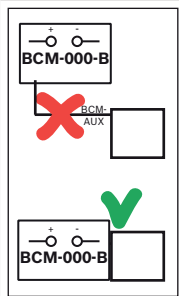
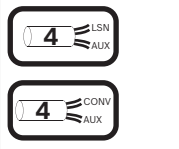
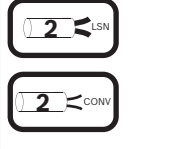
 	Monitored/not monitored connection of conventional peripheral or monitored/not monitored conventional notification appliance circuit line. (End of line resistor in CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A connection or dry contact connections with interface module.)	 	In this connection of conventional peripheral a feedback line can be connected. / The crossed out symbol means that a feedback line is not necessary or not recommended. (FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A connections) An input line can be also used as feedback line (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1...).		Redundancy
	Loop wiring		Loop wiring with redundant element		Stub wiring
	Redundant stub wiring		Stub wiring with redundant element		Redundant stub wiring with redundant element

ELS	This wiring is compliant with VdS 2543. ELS stands for Extended Line Supervision, which means creeping short circuit and creeping open monitoring. This wiring offers ELS. You find all wirings which are enriched with additional EOL modules for creeping open monitoring in the EOL chapter. A creeping short circuit is detected by the following modules: LSN 0300 A, LSN 1500 A, and BCM-0000-B when using FPP-5000-TI13.		This loop wiring is compliant with VdS 2543. It offers ELS. Additional EOL modules are not necessary.		Synchronization
	Areas with danger of explosion		Panel		Standalone panel
	Standalone panel with redundancy		Not allowed		For detector bases: The wiring is valid solely for the detector base in which the detector is installed.
-----	Optional wiring	_____	Mandatory wiring	EN 54-2, DIBT etc.	If compliance with this standard is required, then use the specified wiring.

2.4.3

Power Supply and Wiring

	Additional power supply
	Power supply via the panel The power supply may be separate from the element.

	Power supply via the panel / External power supply The element is powered with a BCM-000-B. The element must be mounted flush with the housing of the product containing the BCM-000-B.
	The wiring is a 4-wire connection. Otherwise it is a 2-wire connection.
	The wiring is a 2-wire connection.
	See the wiring in this manual.
	See the technical documentation of the connected peripheral device.

2.5

Resistance Values

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

Color	1. band	2. band	3. band	4. band (multiplier)	5. band (tolerance)
Silver				10^{-2}	$\pm 10\%$
Gold				10^{-1}	$\pm 5\%$
Black		0	0	10^0	
Brown	1	1	1	10^1	$\pm 1\%$
Red	2	2	2	10^2	$\pm 2\%$
Orange	3	3	3	10^3	$\pm 0.05\%$
Yellow	4	4	4	10^4	$\pm 0.02\%$
Green	5	5	5	10^5	$\pm 0.5\%$
Blue	6	6	6	10^6	$\pm 0.25\%$
Violet	7	7	7	10^7	$\pm 0.1\%$
Gray	8	8	8	10^8	$\pm 0.01\%$
White	9	9	9	10^9	

In accordance with DIN EN 60062:2017

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

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

3

Wiring



FPP-5000 Power supply, page 18

DIBT, page 20

Functional Modules, page 47

BCM-0000-B, page 48

CZM 0004 A, page 50

ENO 0000 A/B, page 54

LSN 0300 A, page 61

NZM 0002 A, page 96

RMH 0002 A, page 112

IOS 0020 A, page 115

FPE-5000-UGM, page 130

Interface Modules, page 135

FLM-420/4-CON-D/S, page 136

FLM-420-NAC-D/S, page 161

FLM-420-RLE-S, page 174

FLM-420-RLV1-E, page 175

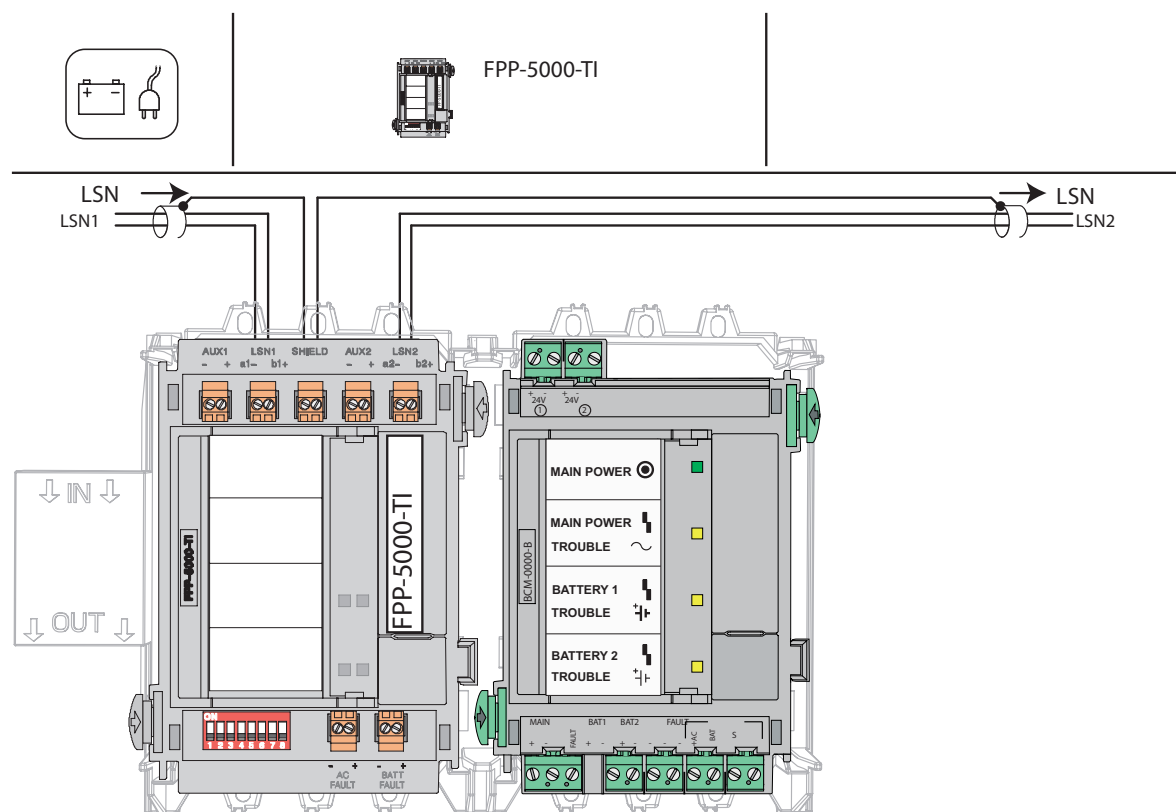
FLM-420-RLV8-S, page 176

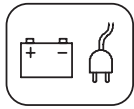
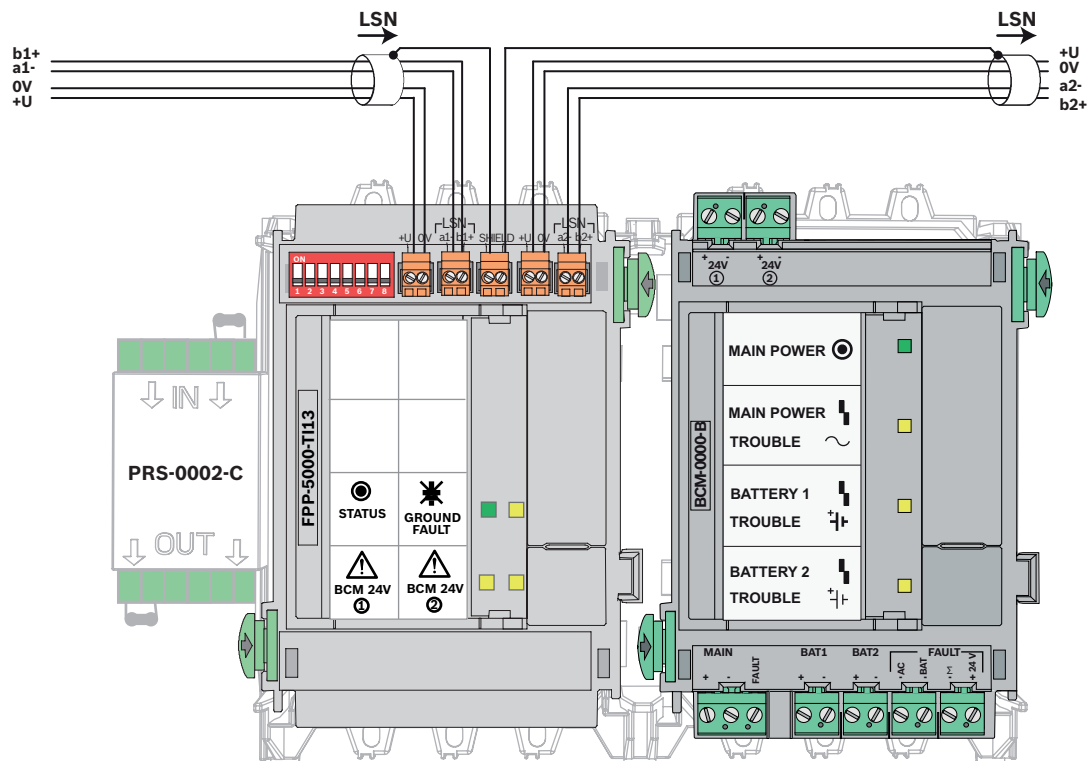
EOL, page 179

LSN 0300 A, page 180

FLM-420/4-CON-S/D, page 222

3.1 FPP-5000 Power supply



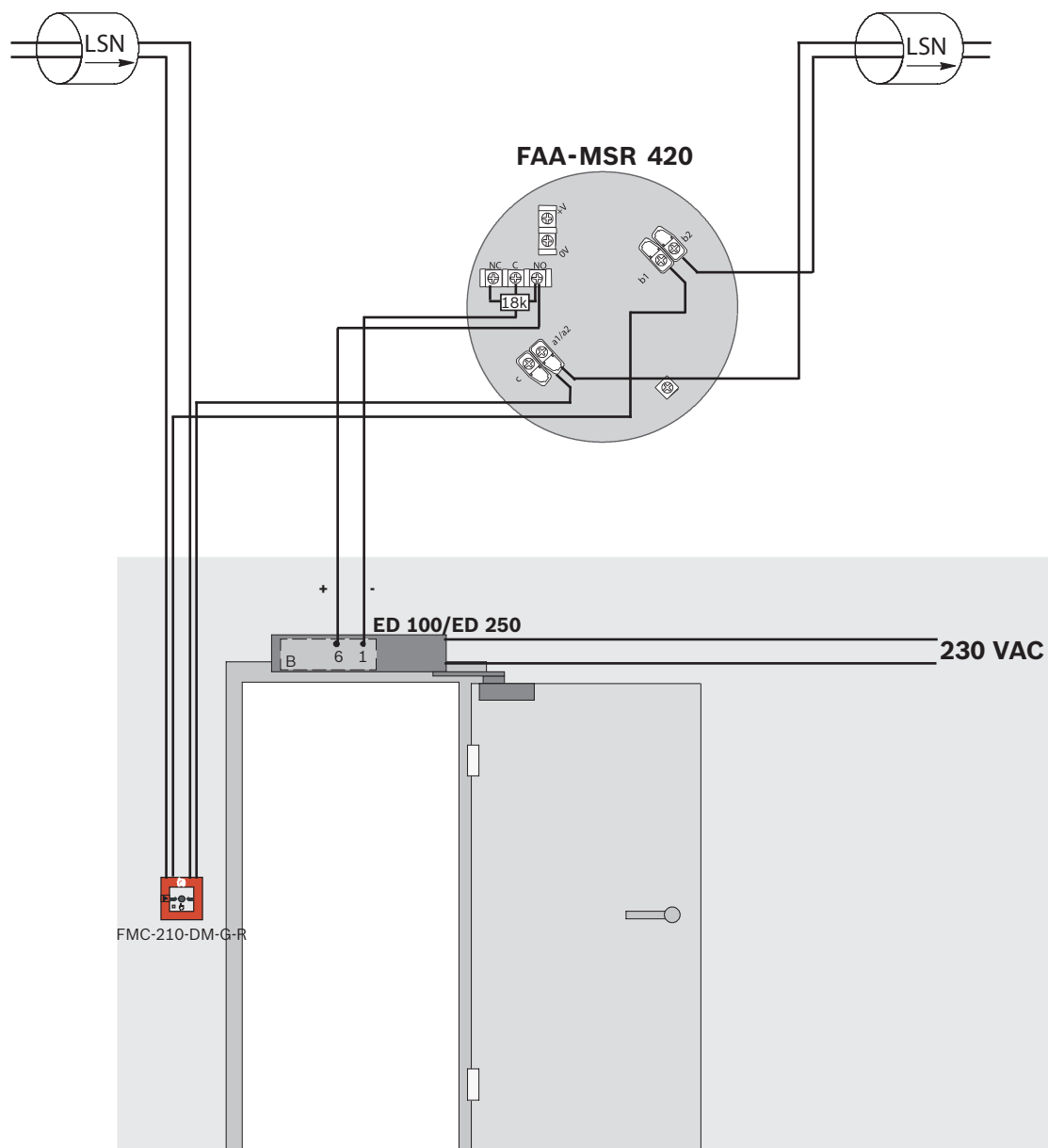
**FPP-5000-TI13****ELS VdS 2489**

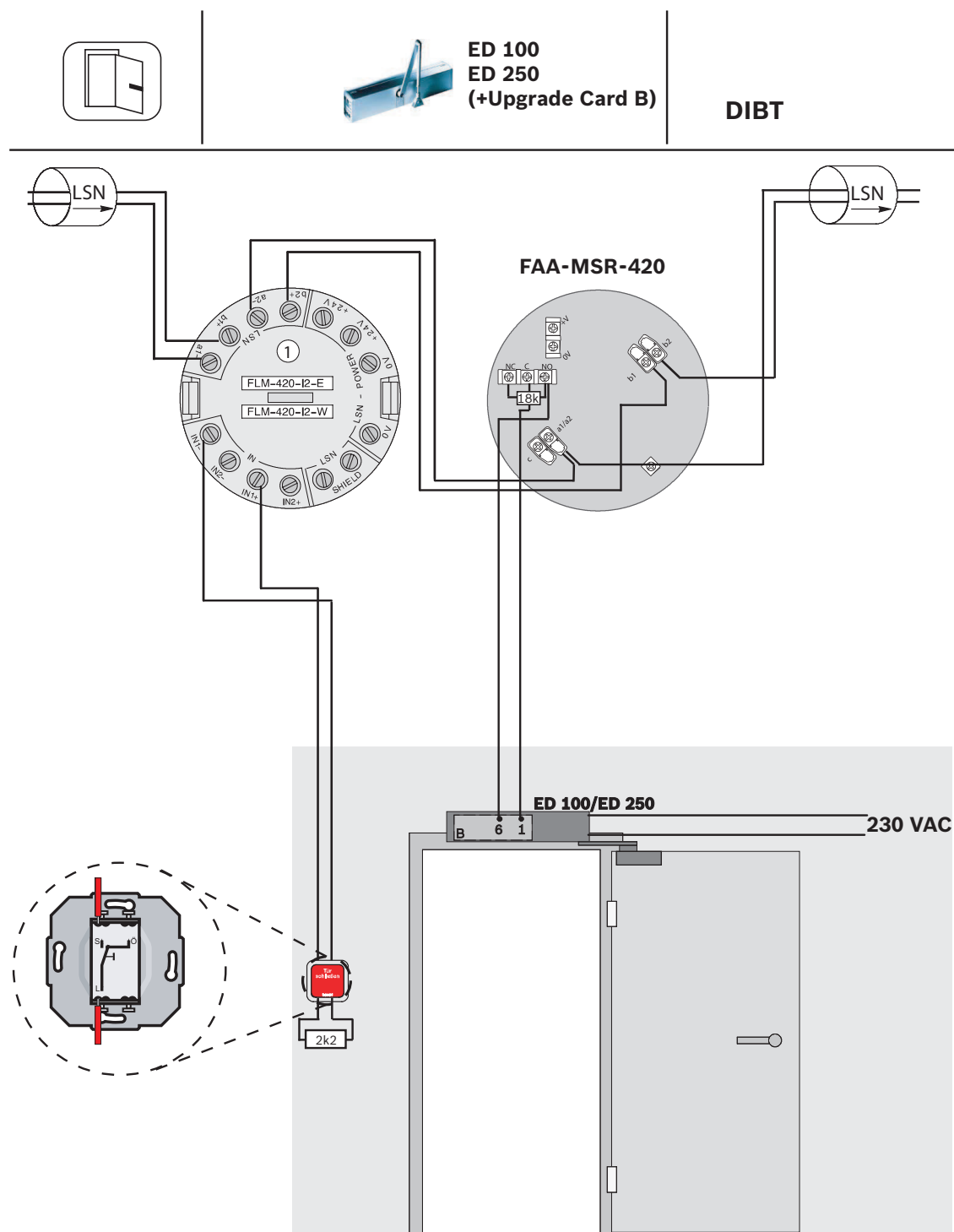
3.2 DIBT

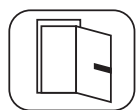
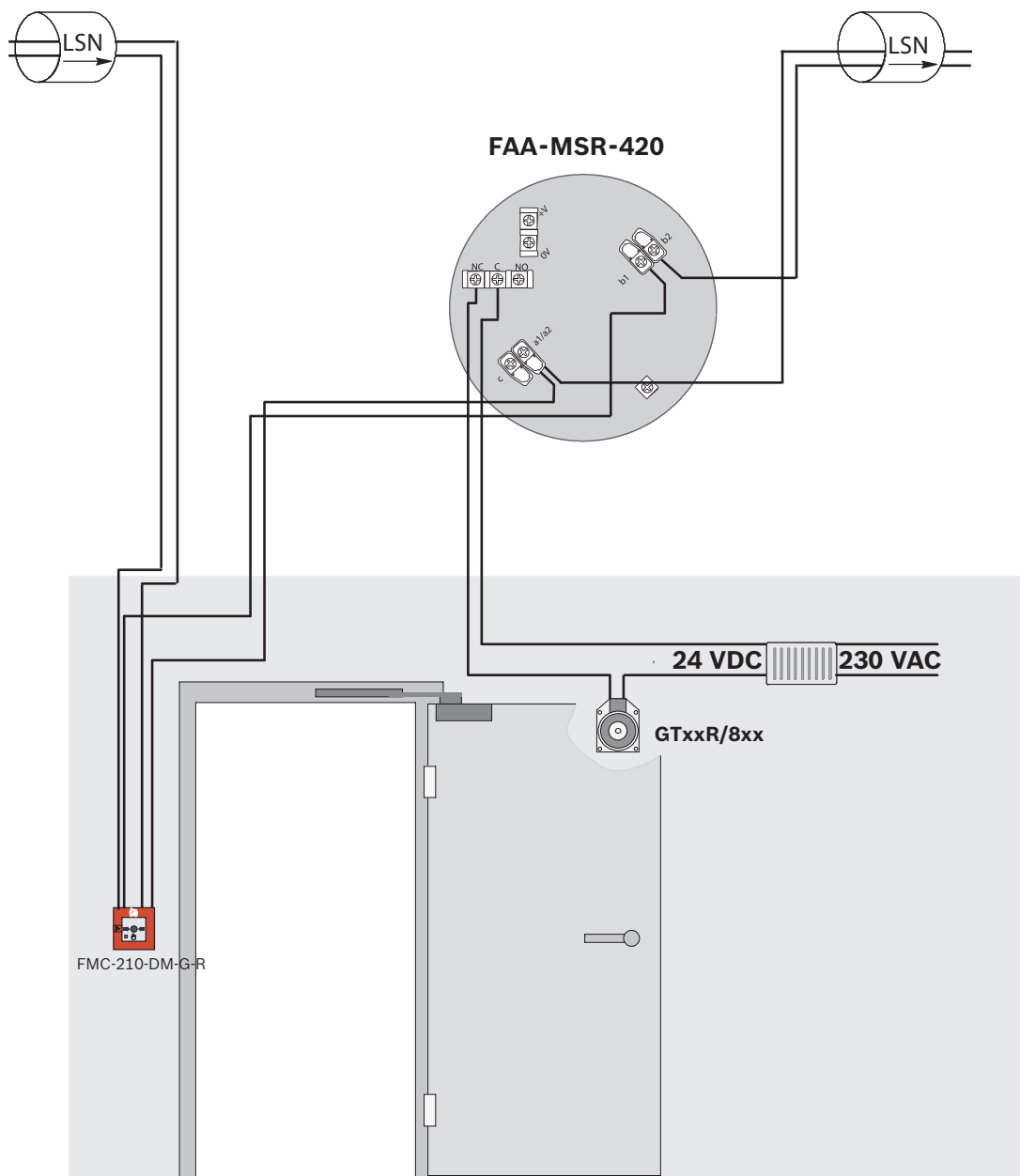


ED 100
ED 250
(+Upgrade Card B)

DIBT





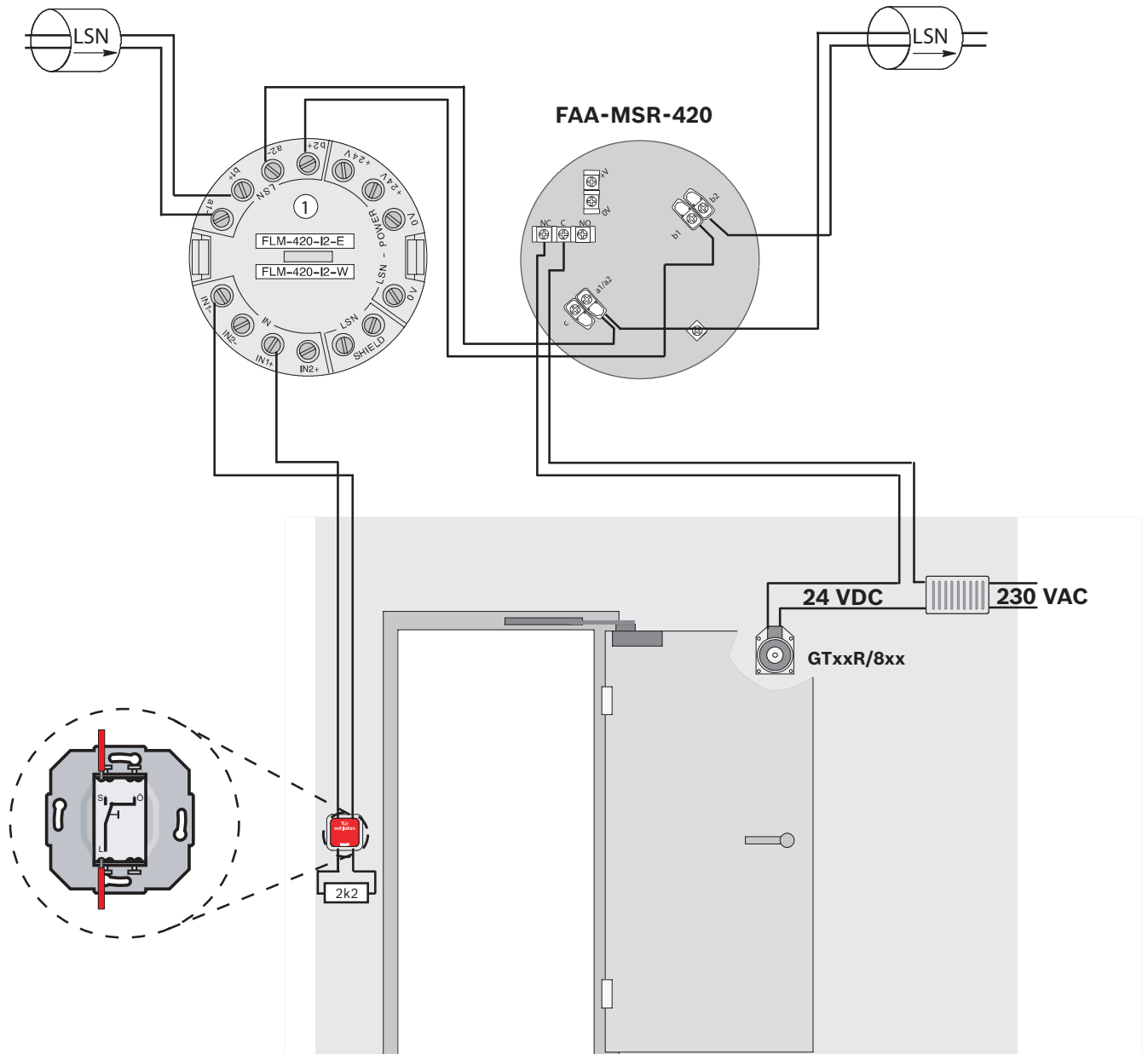
**DIBT**



GT xx R

8 xx

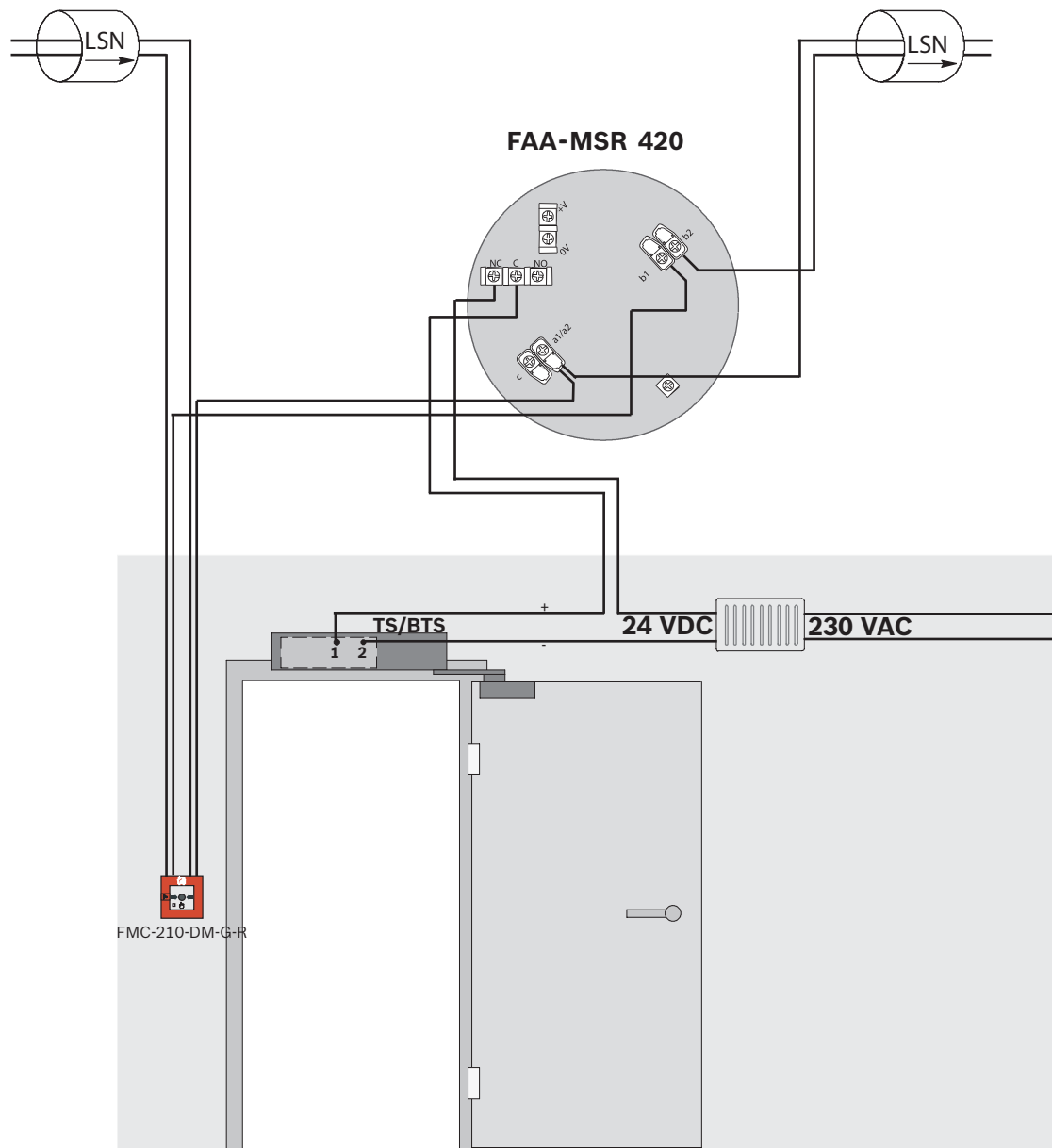
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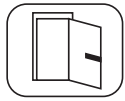




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TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

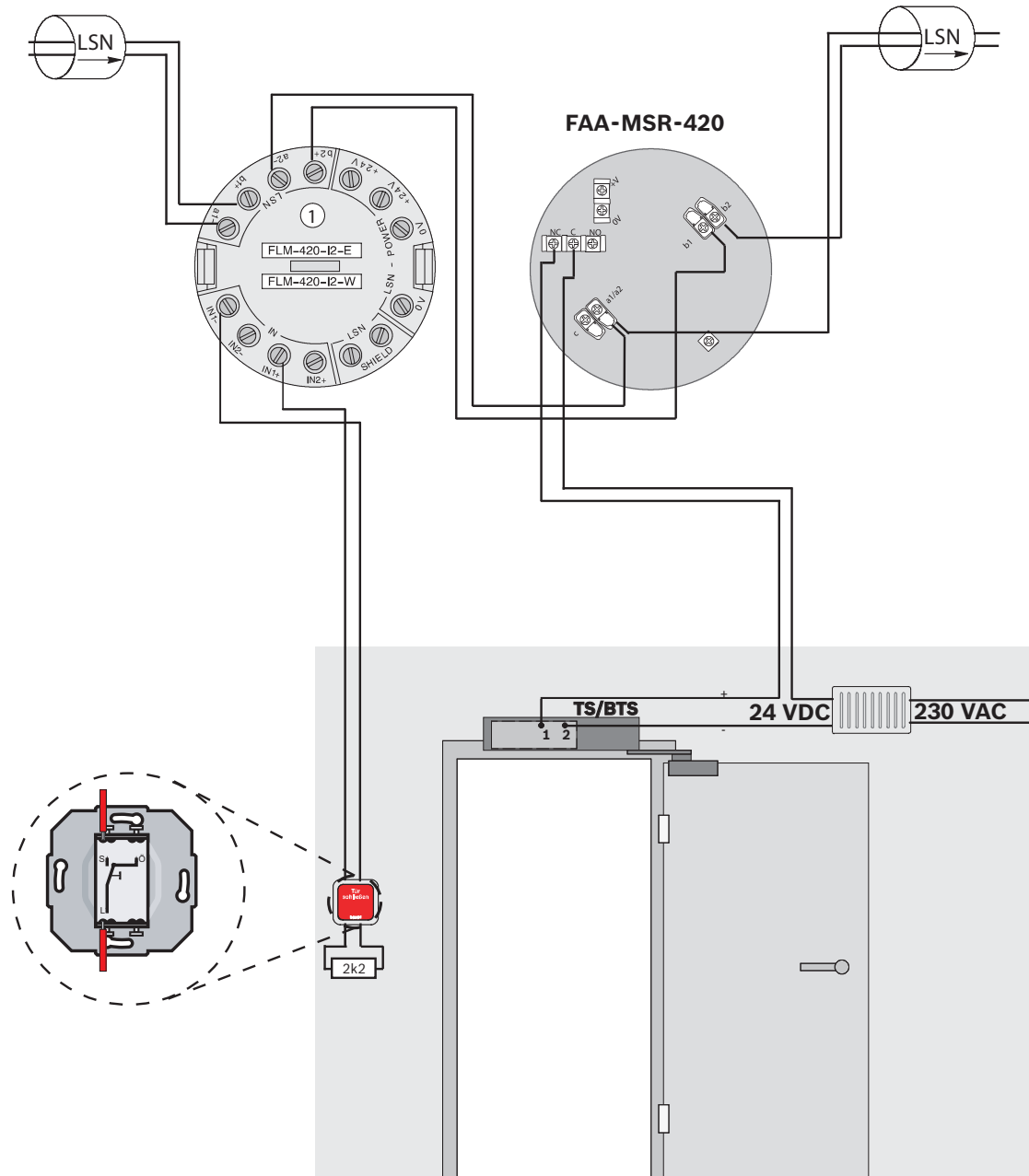
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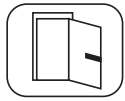




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TS 93 EMF
TS 93 GSR
BTS 80 EMB
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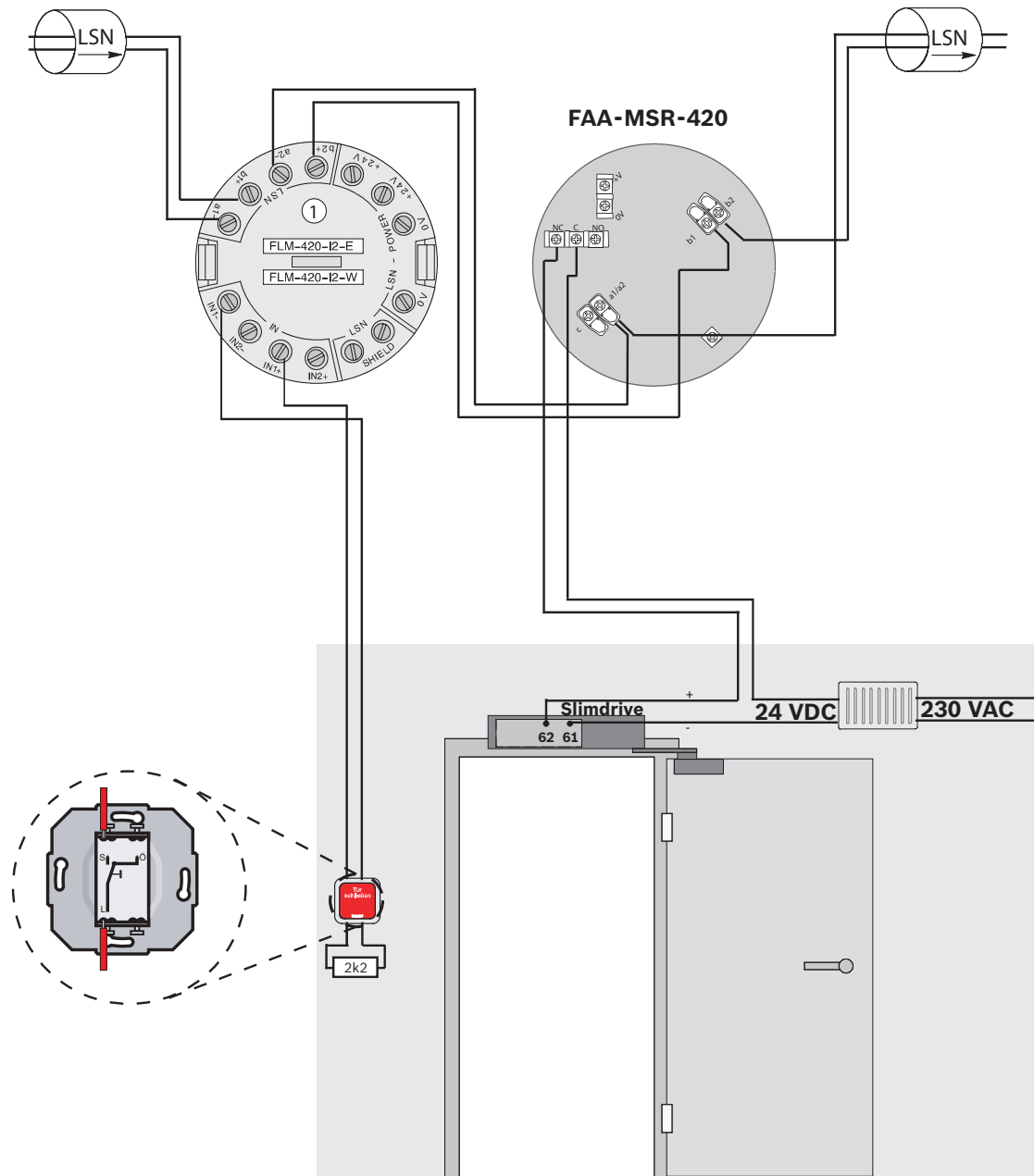
DIBT





Slimdrive EMD-F/EMD F-IS

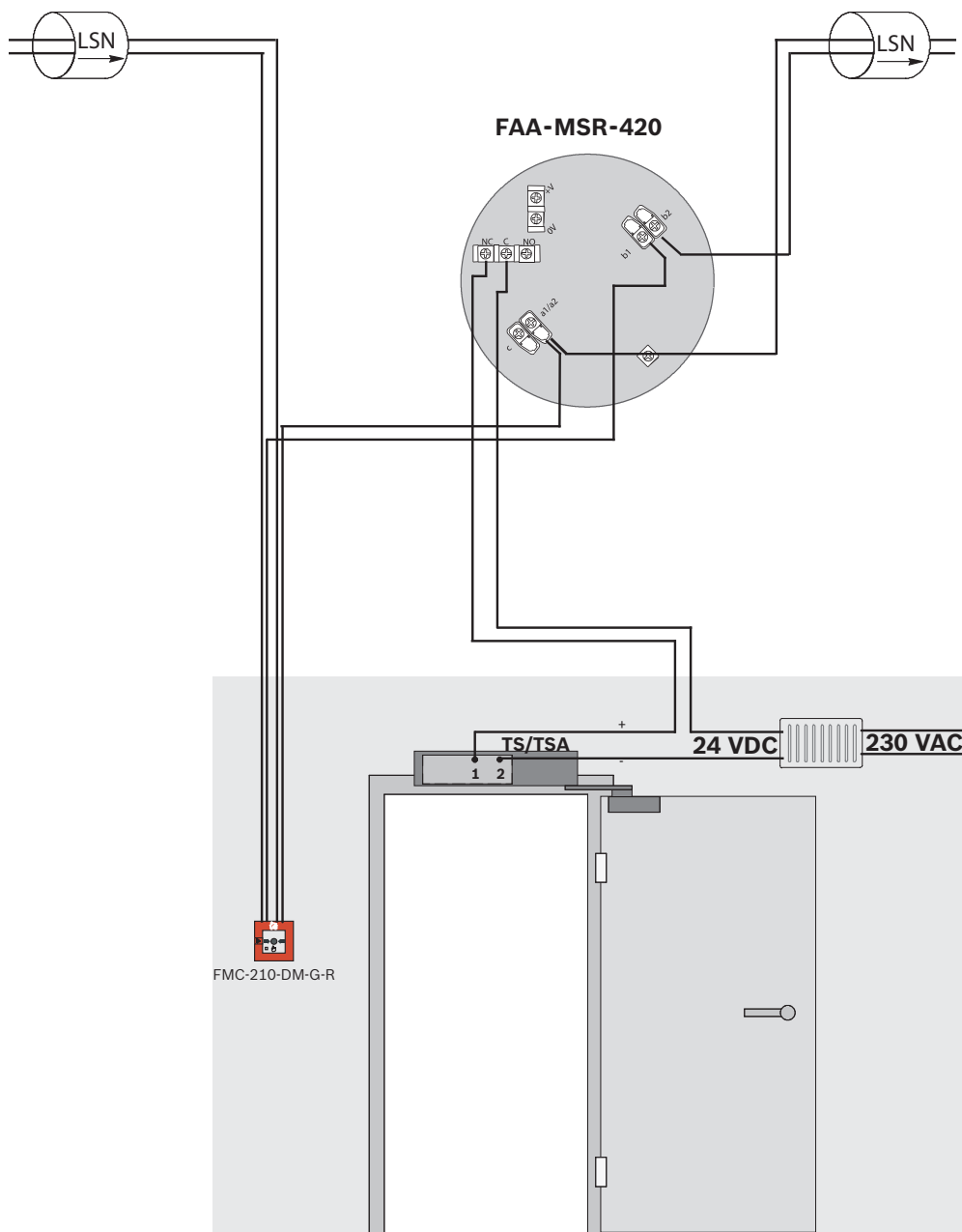
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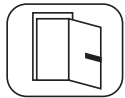




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TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

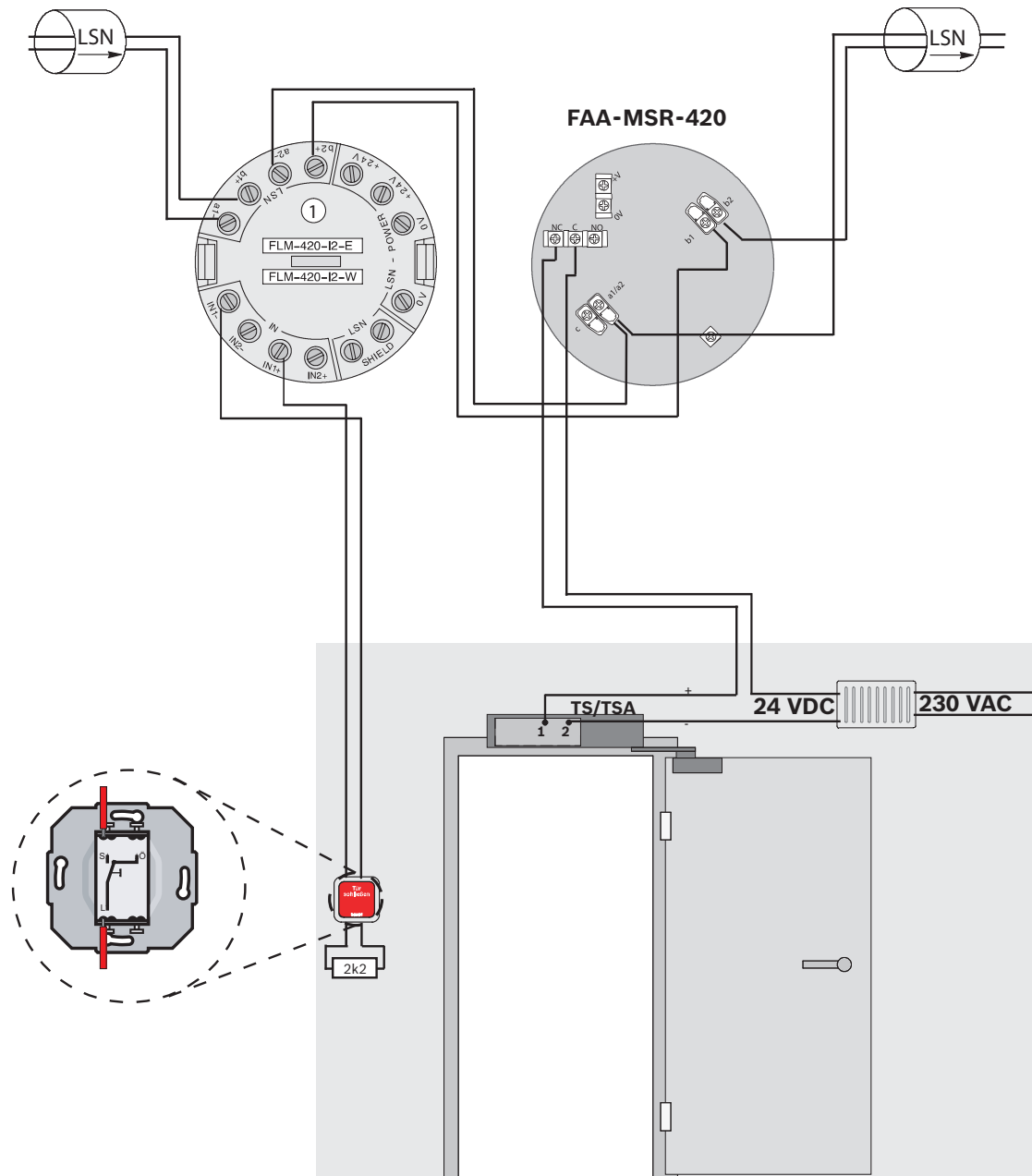
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TS 5000 E/E-IS/E-ISM
TS 550 E
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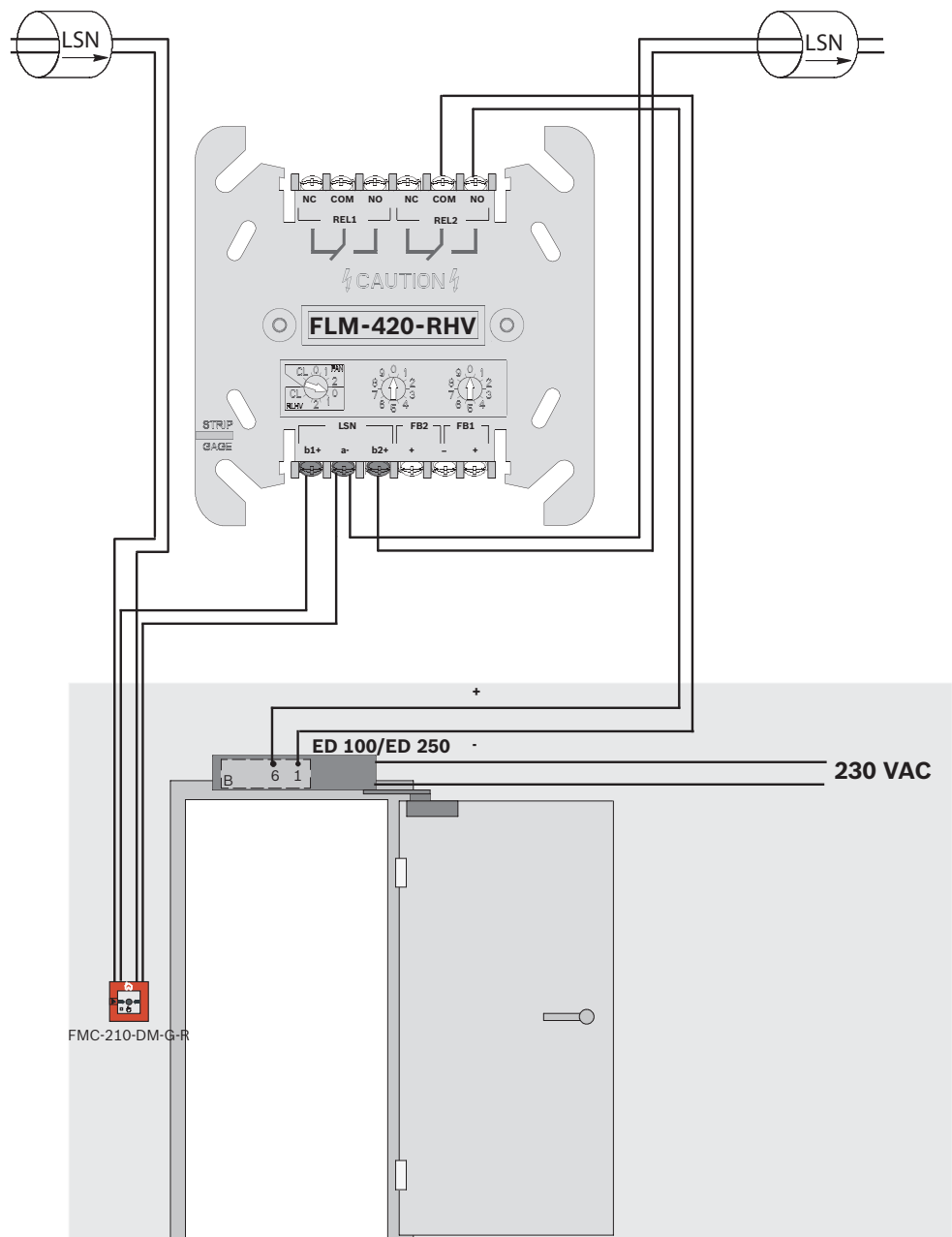
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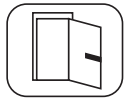




**ED 100
ED 250
(+Upgrade Card B**

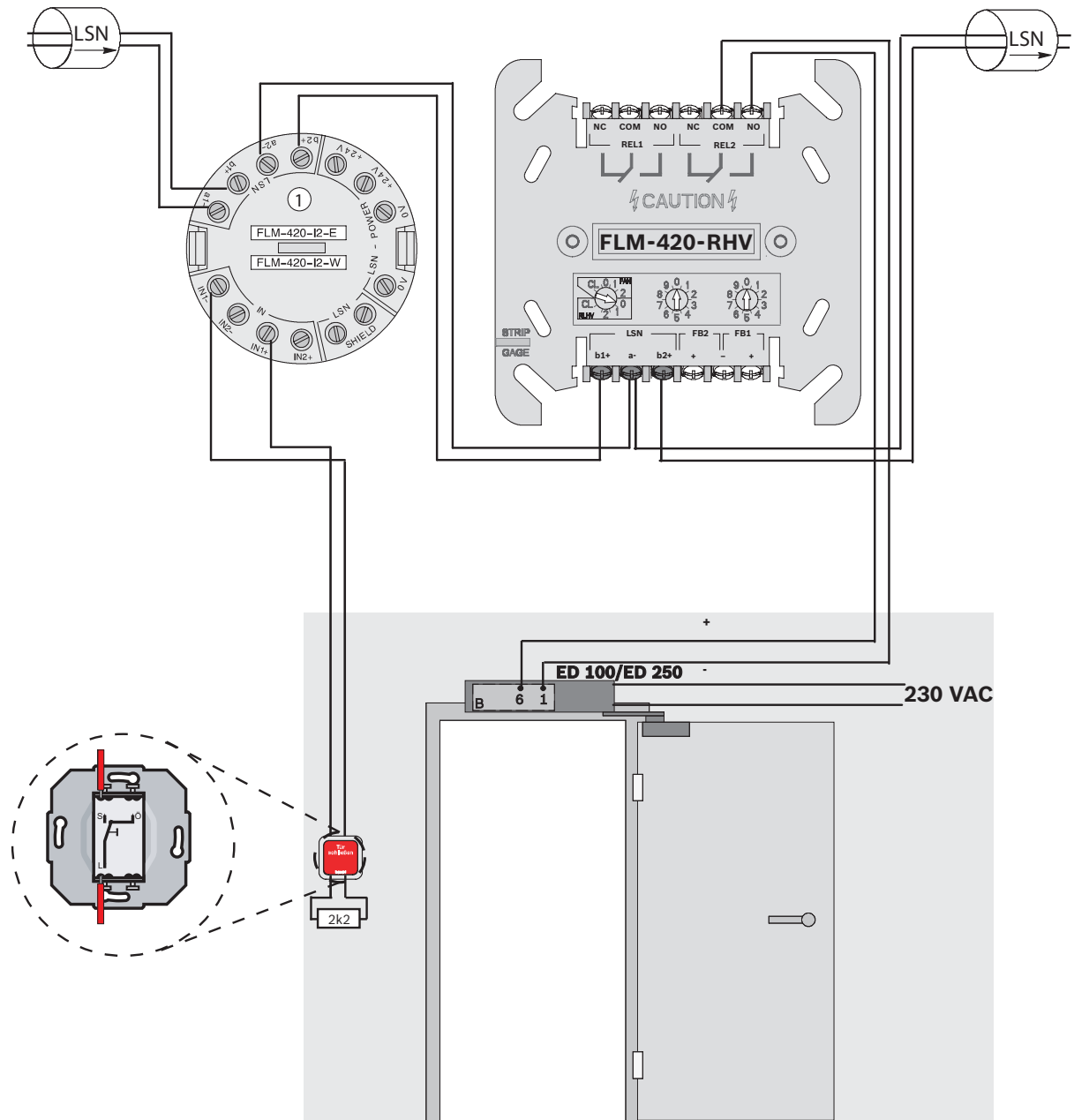
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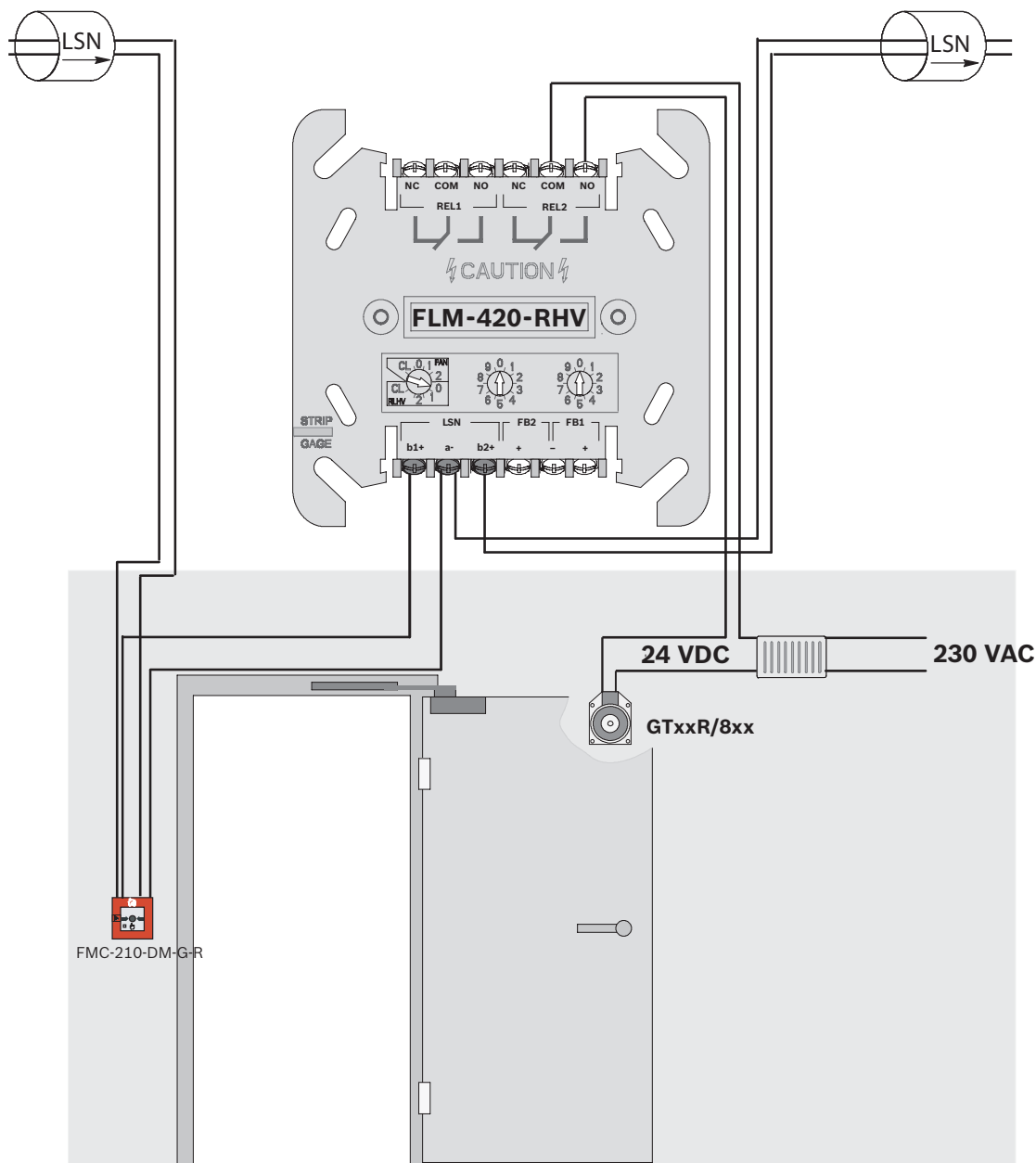
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ED 250
(+Upgrade Card B)**

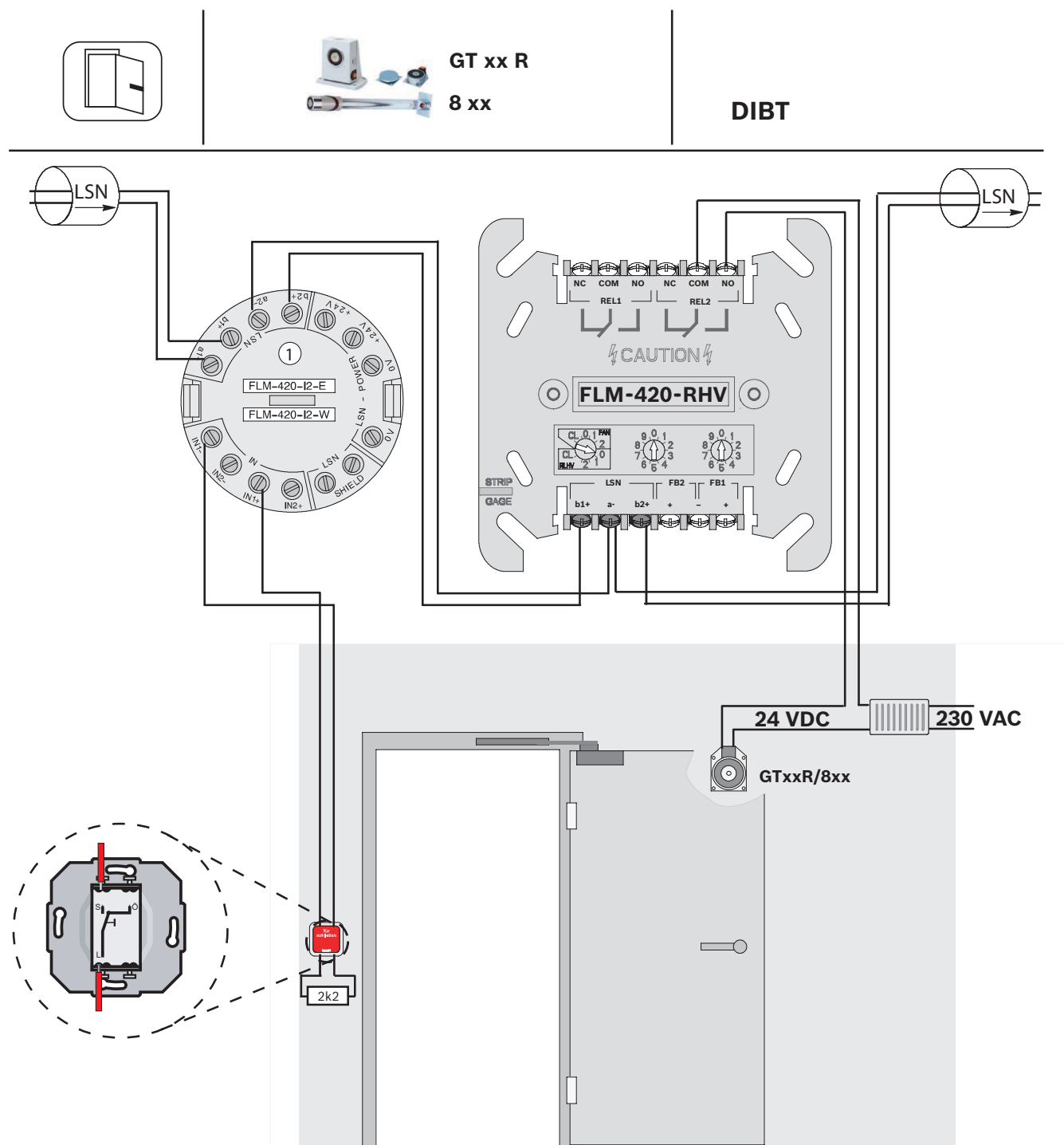
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DIBT

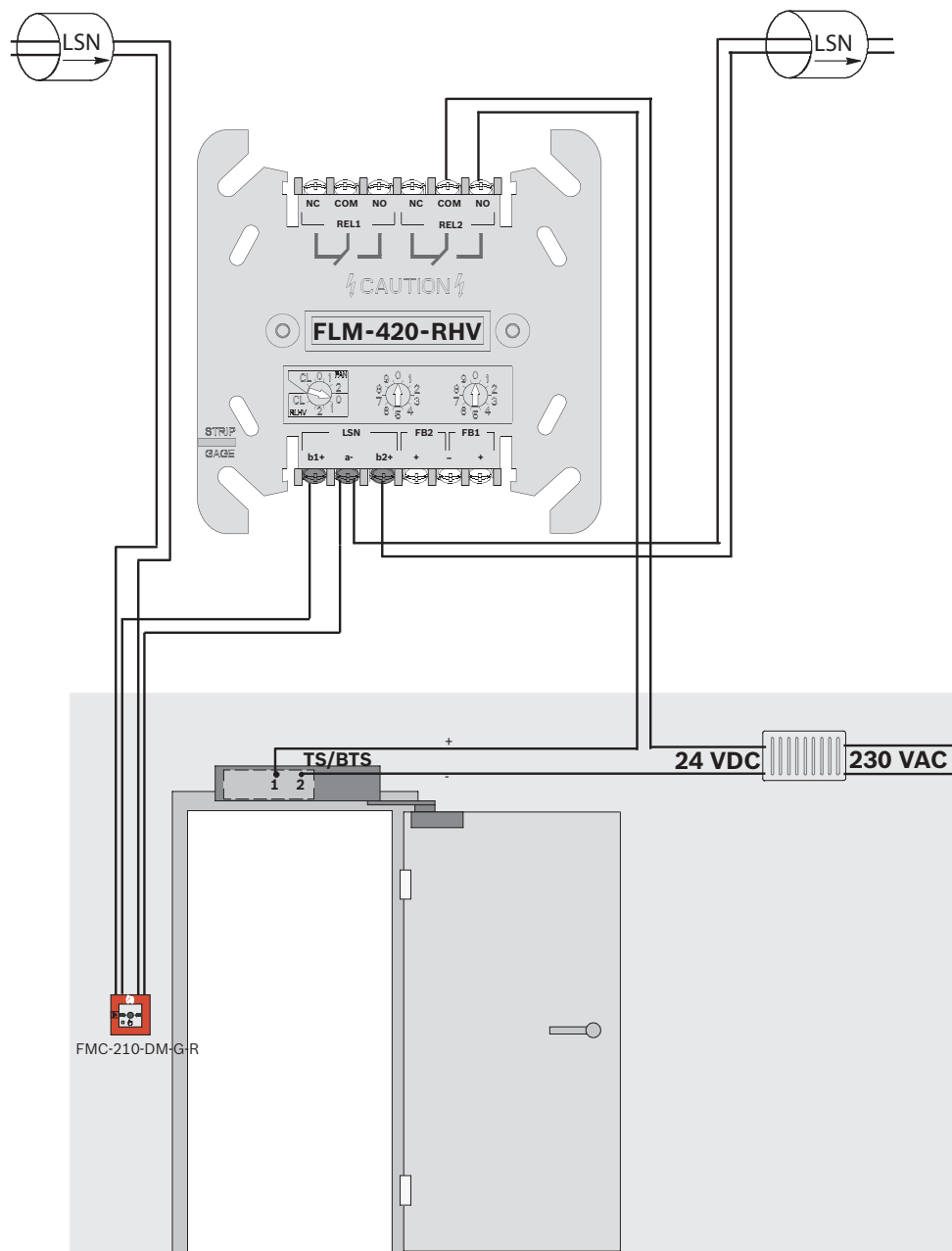


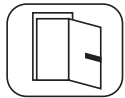




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TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

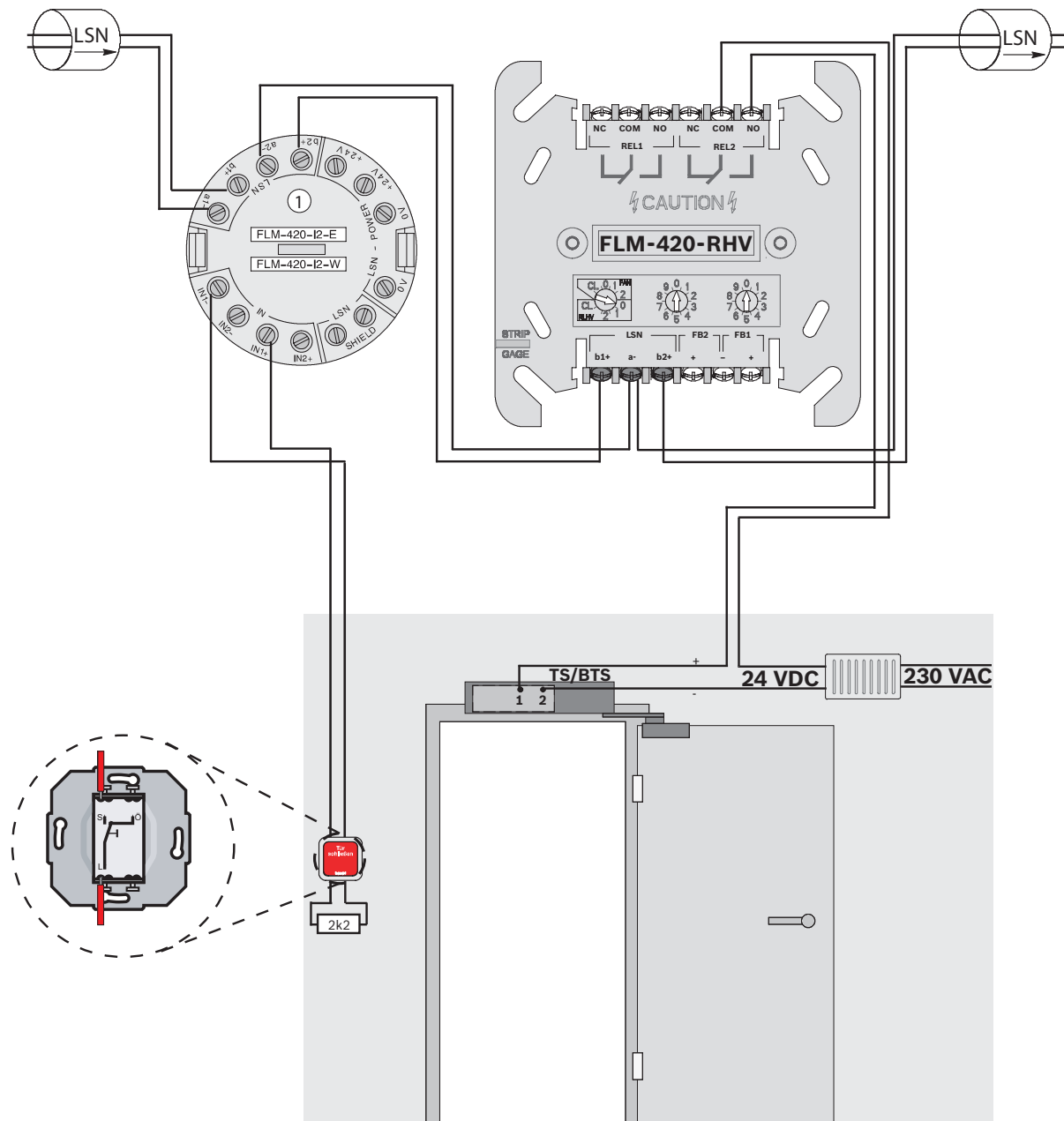
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TS 93 GSR
BTS 80 EMB
BTS 80 FLB

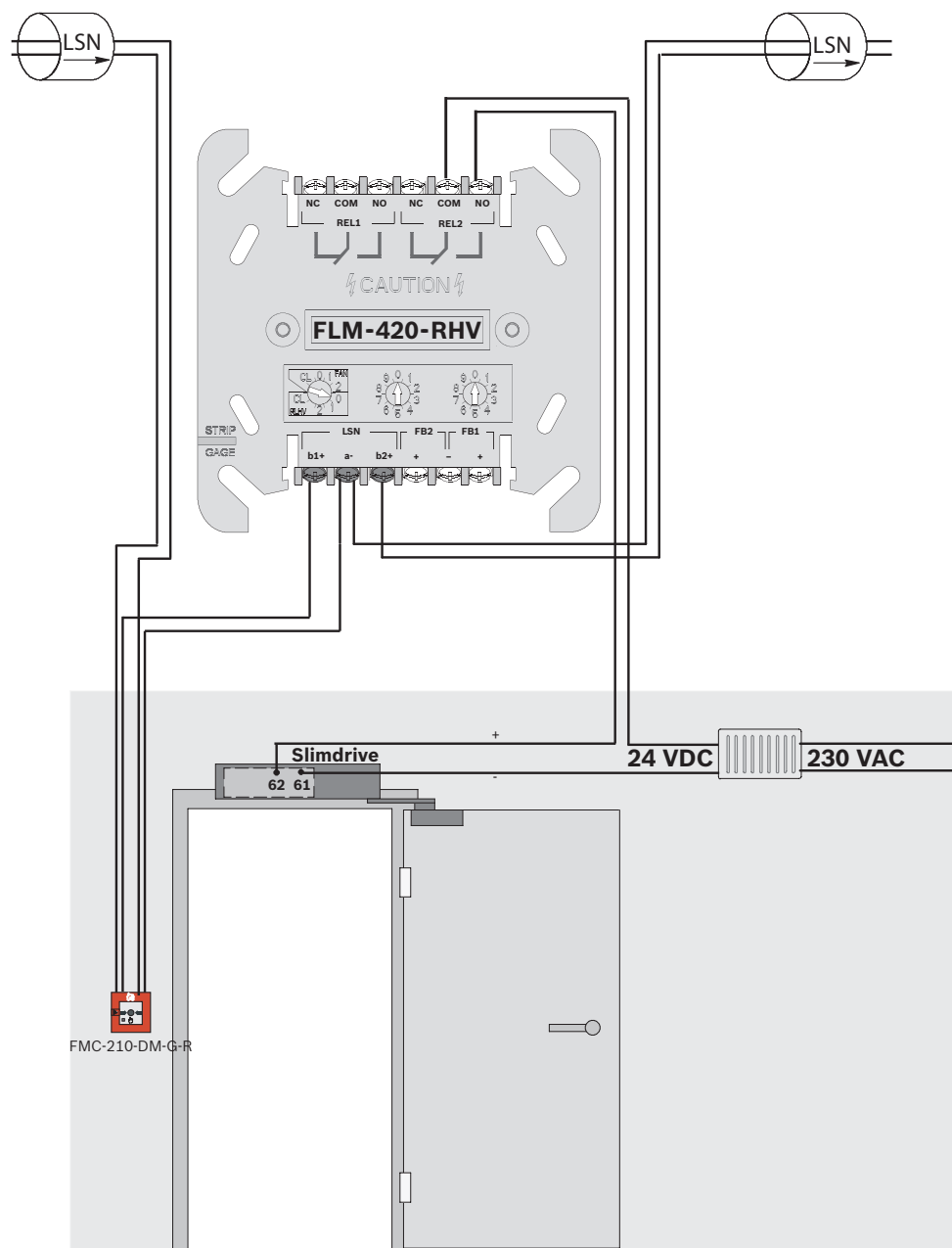
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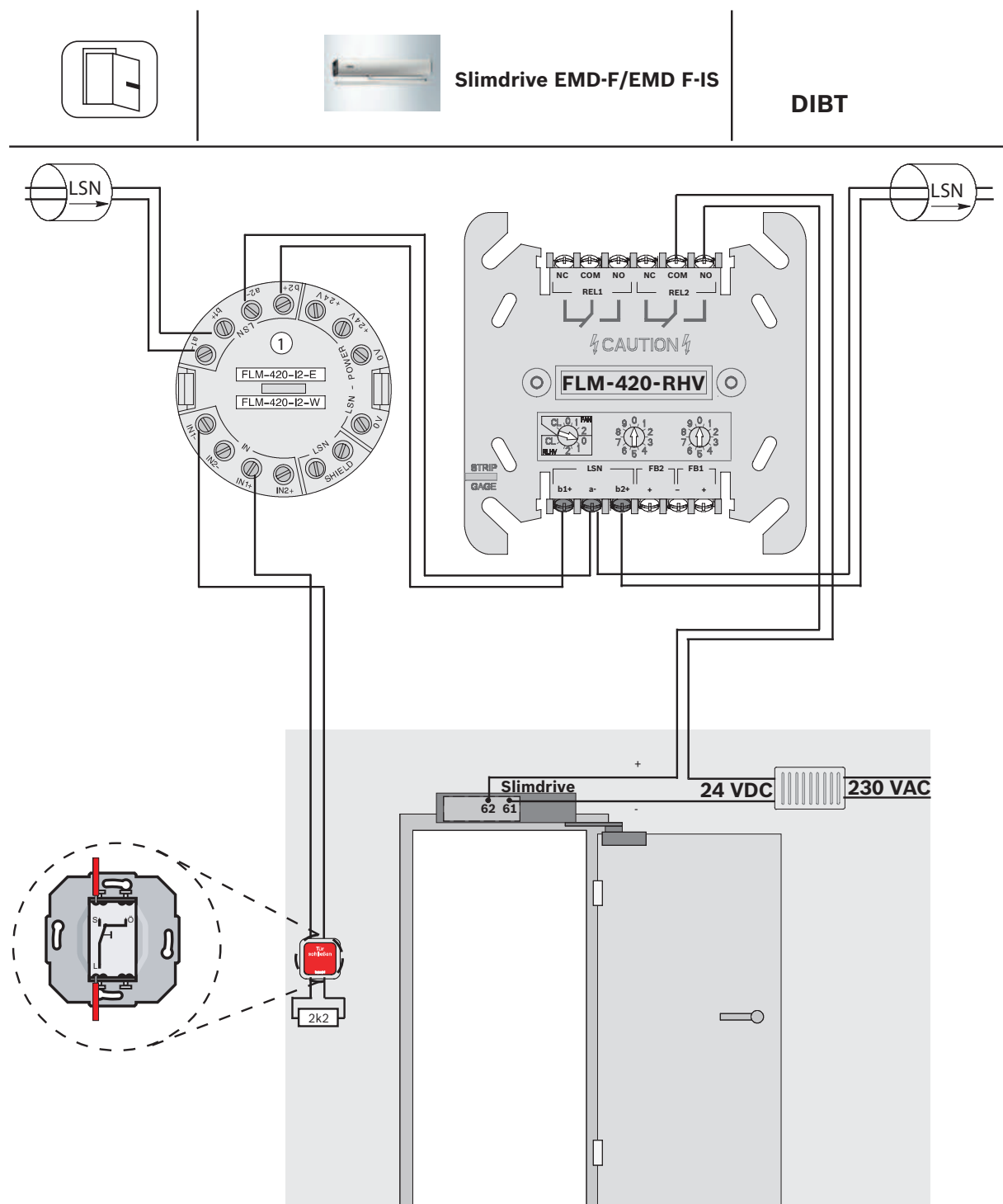




Slimdrive EMD-F/EMD F-IS

DIBT

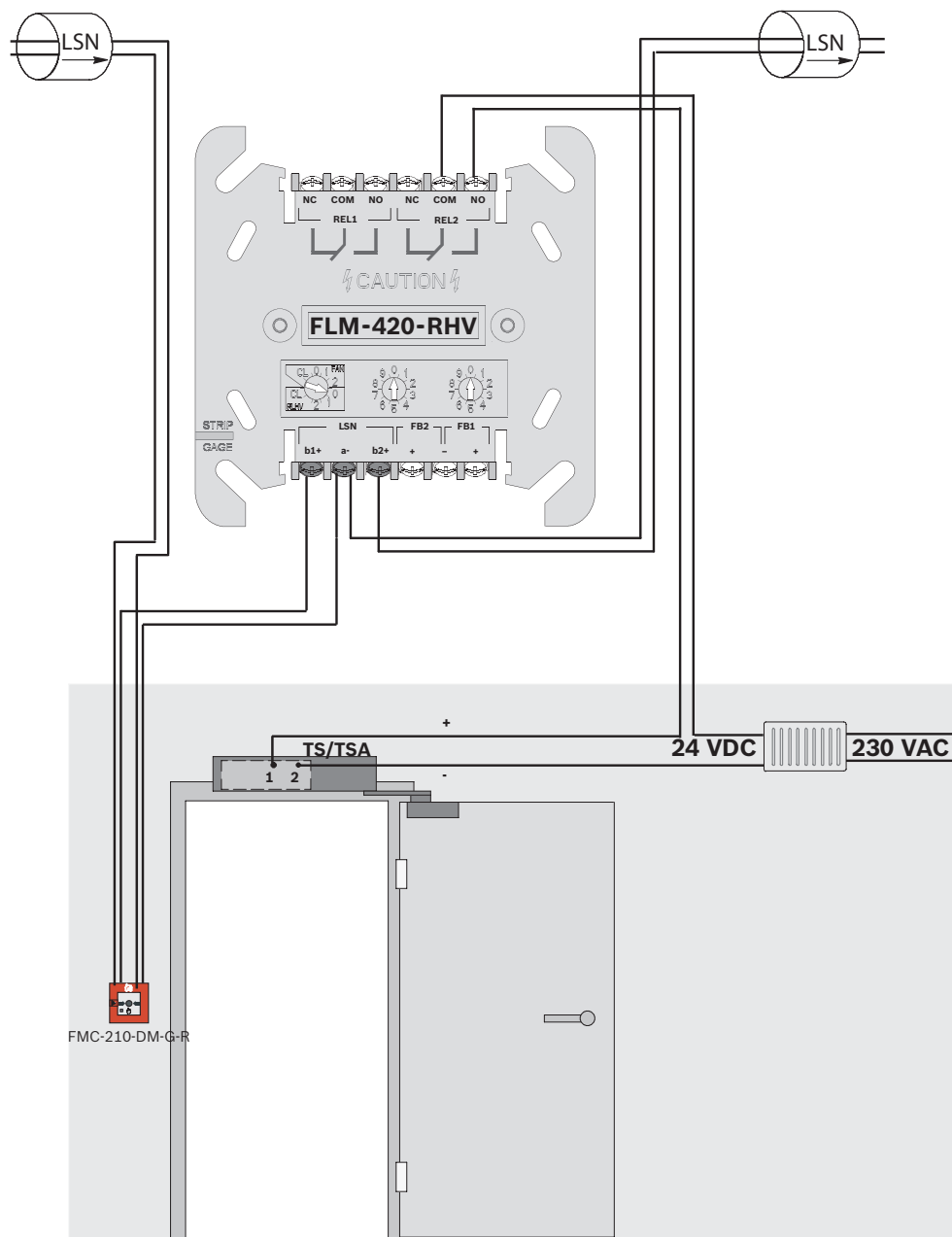


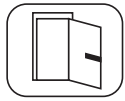




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TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

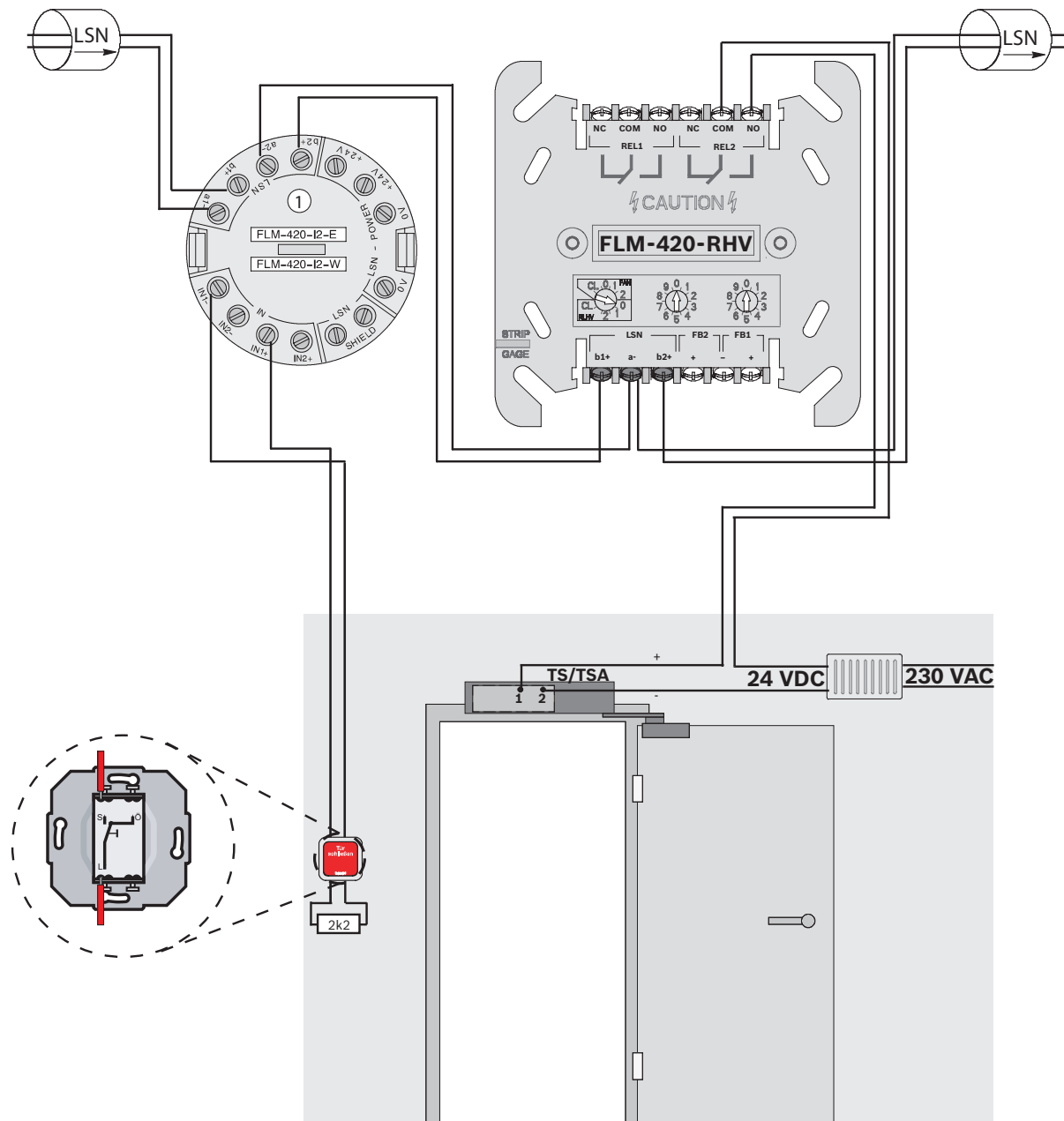
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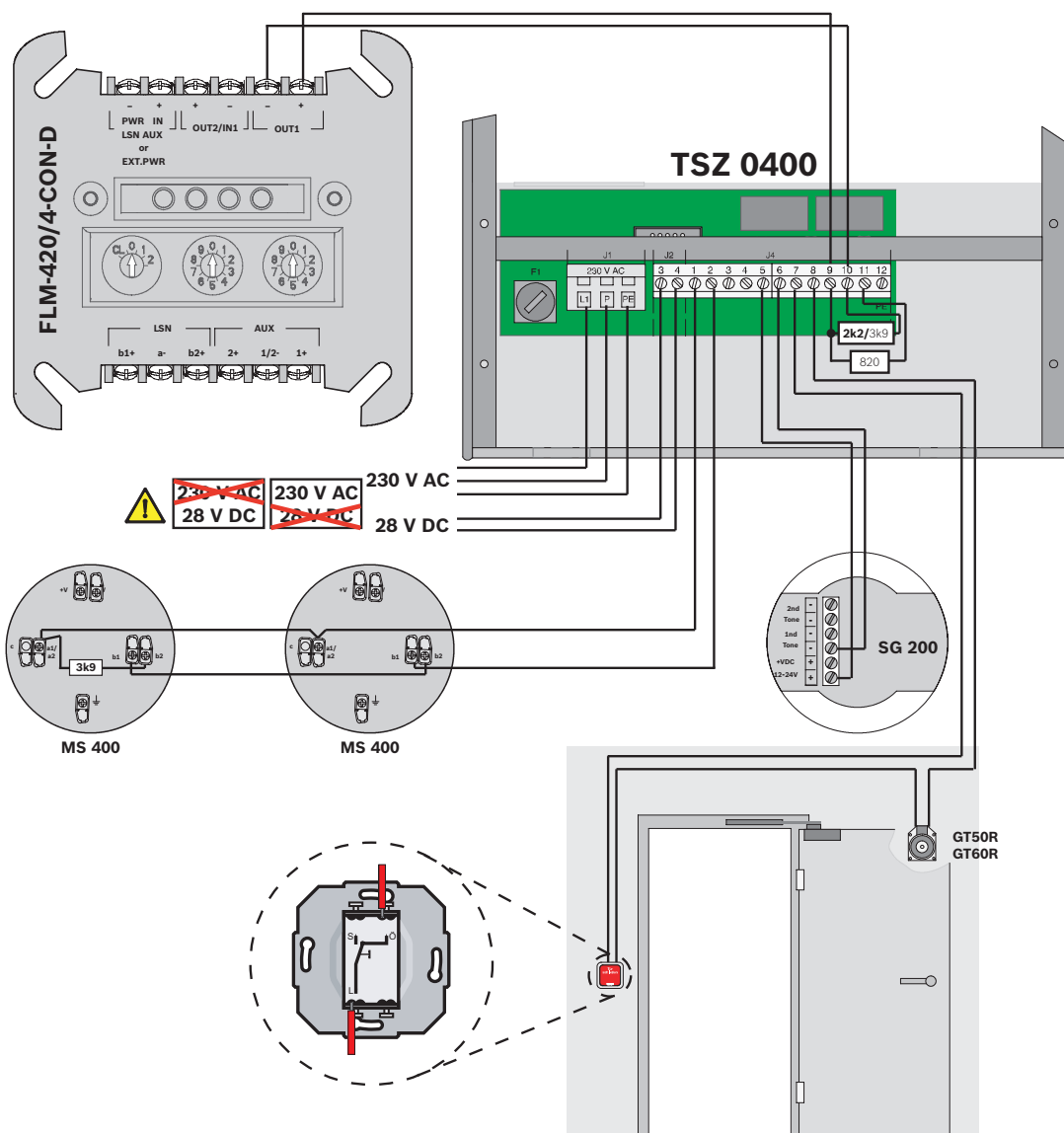
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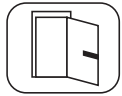




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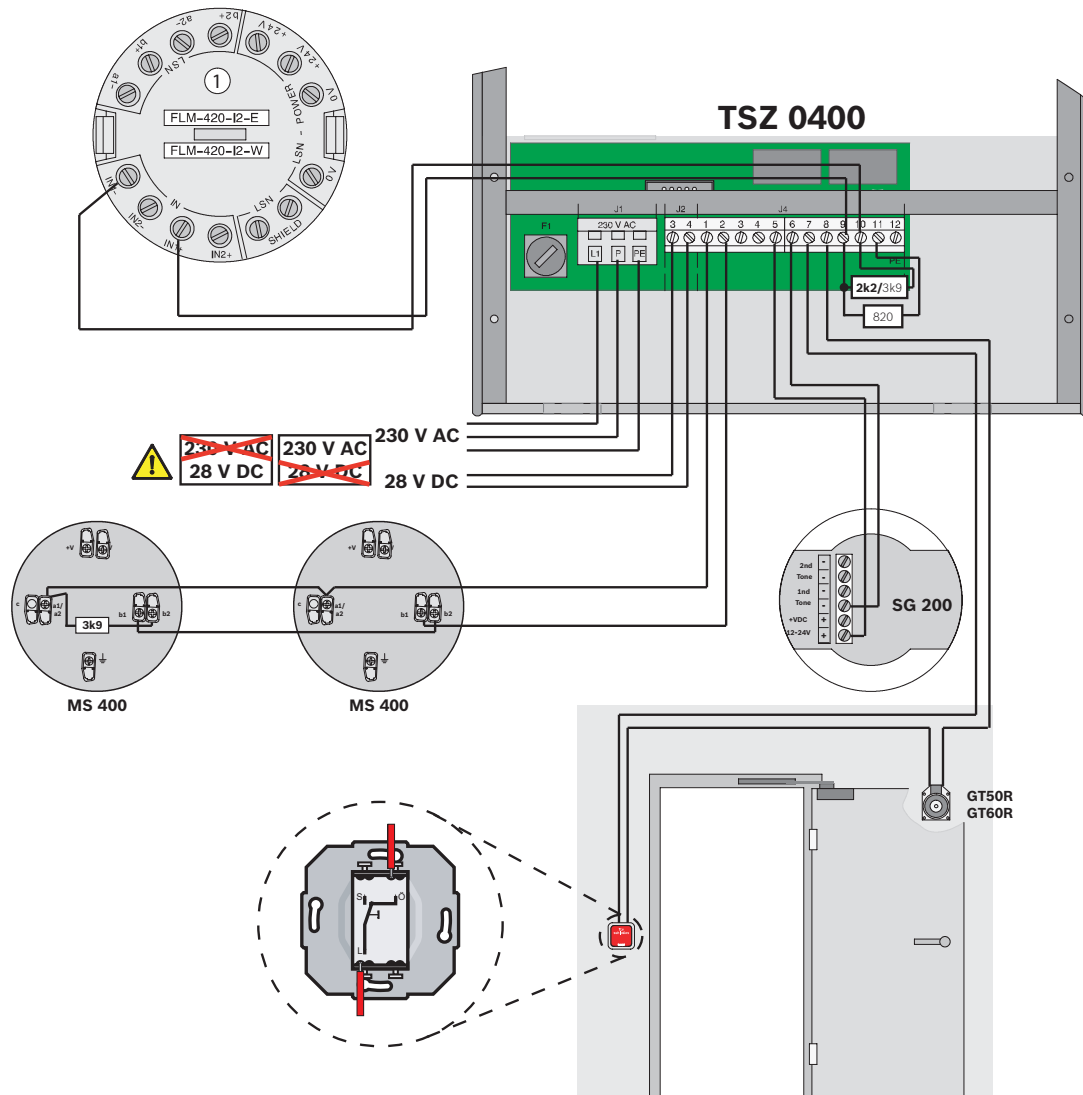
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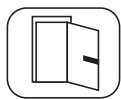




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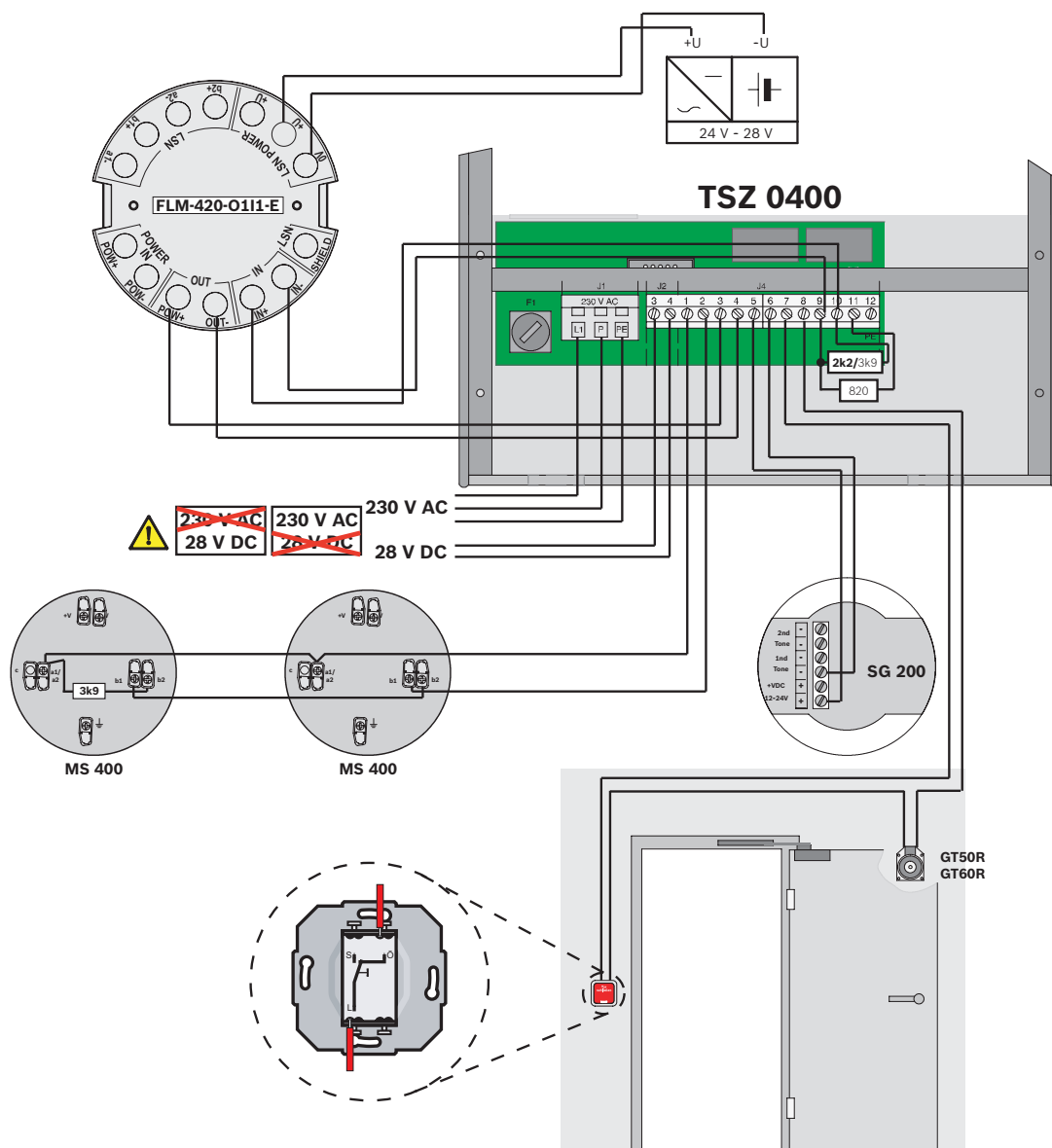
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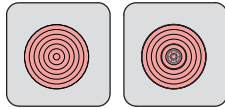




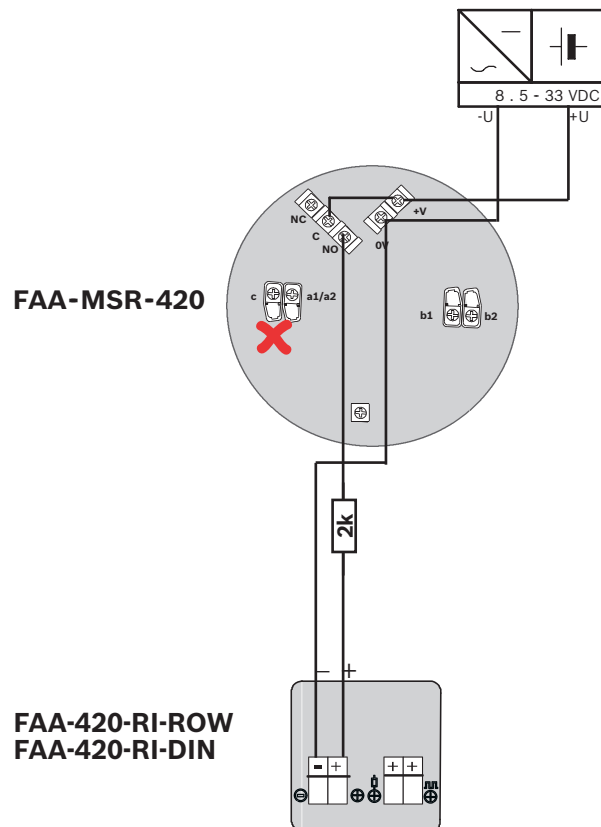
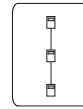
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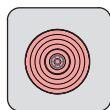
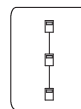
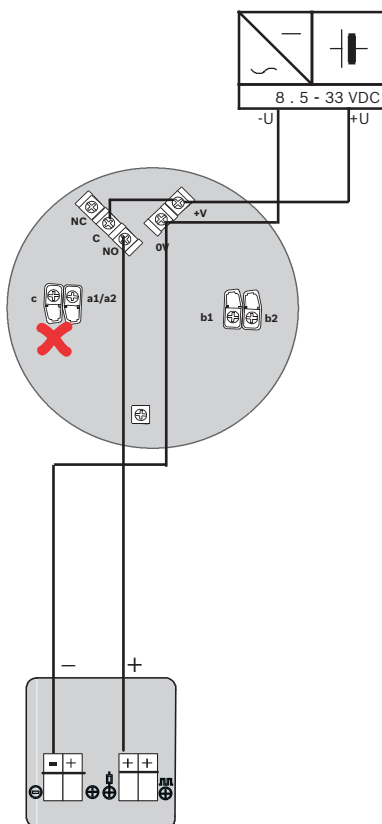
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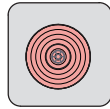
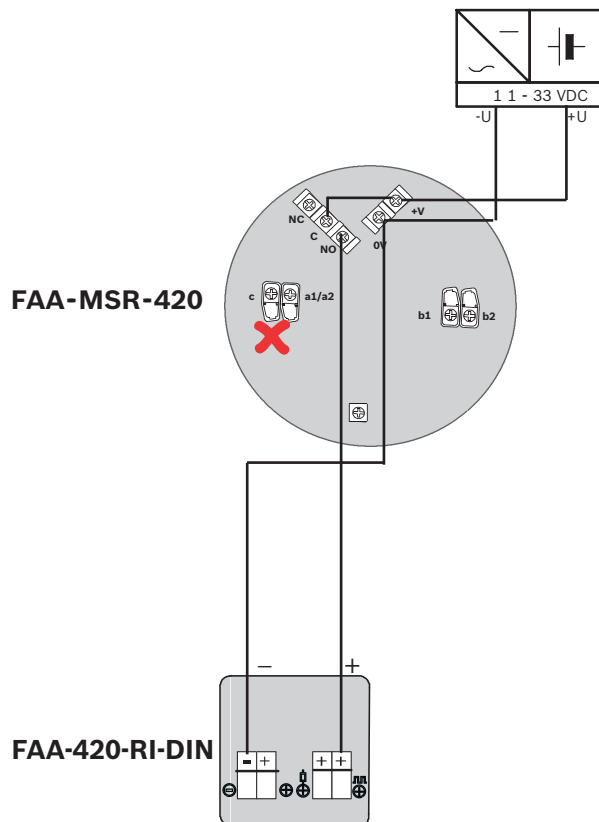
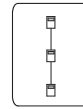




FAA-420-RI-ROW
FAA-420-RI-DIN



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


FAA-420-RI-DIN


3.3 Functional Modules



BCM-0000-B, page 48

CZM 0004 A, page 50

ENO 0000 A/B, page 54

LSN 0300 A, page 61

NZM 0002 A, page 96

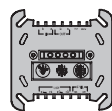
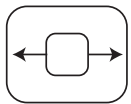
RMH 0002 A, page 112

IOS 0020 A, page 115

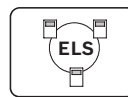
FPE-5000-UGM, page 130

3.3.1

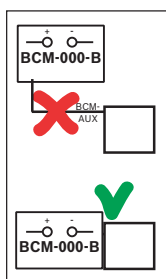
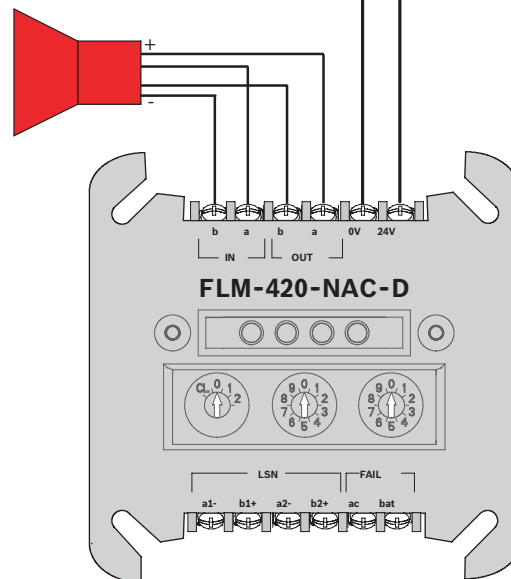
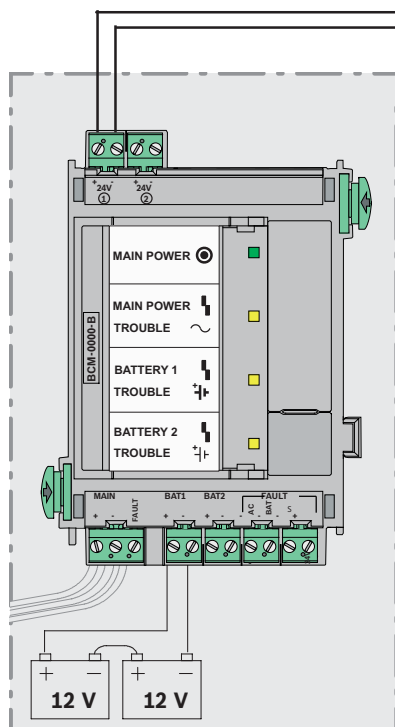
BCM-000-B

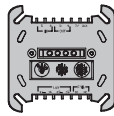
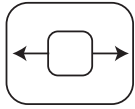
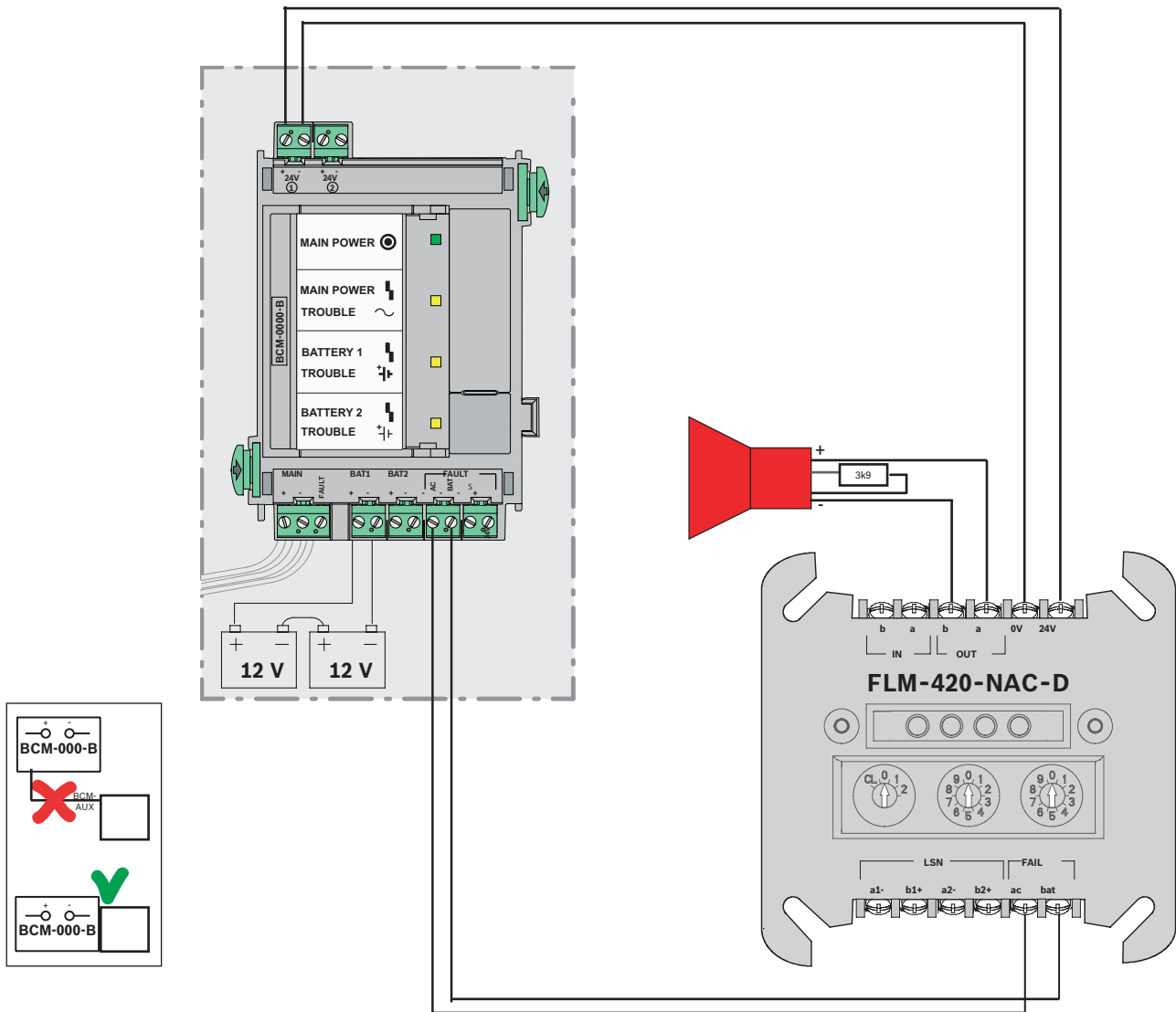
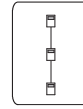


FLM-420-NAC-D



VdS 2489

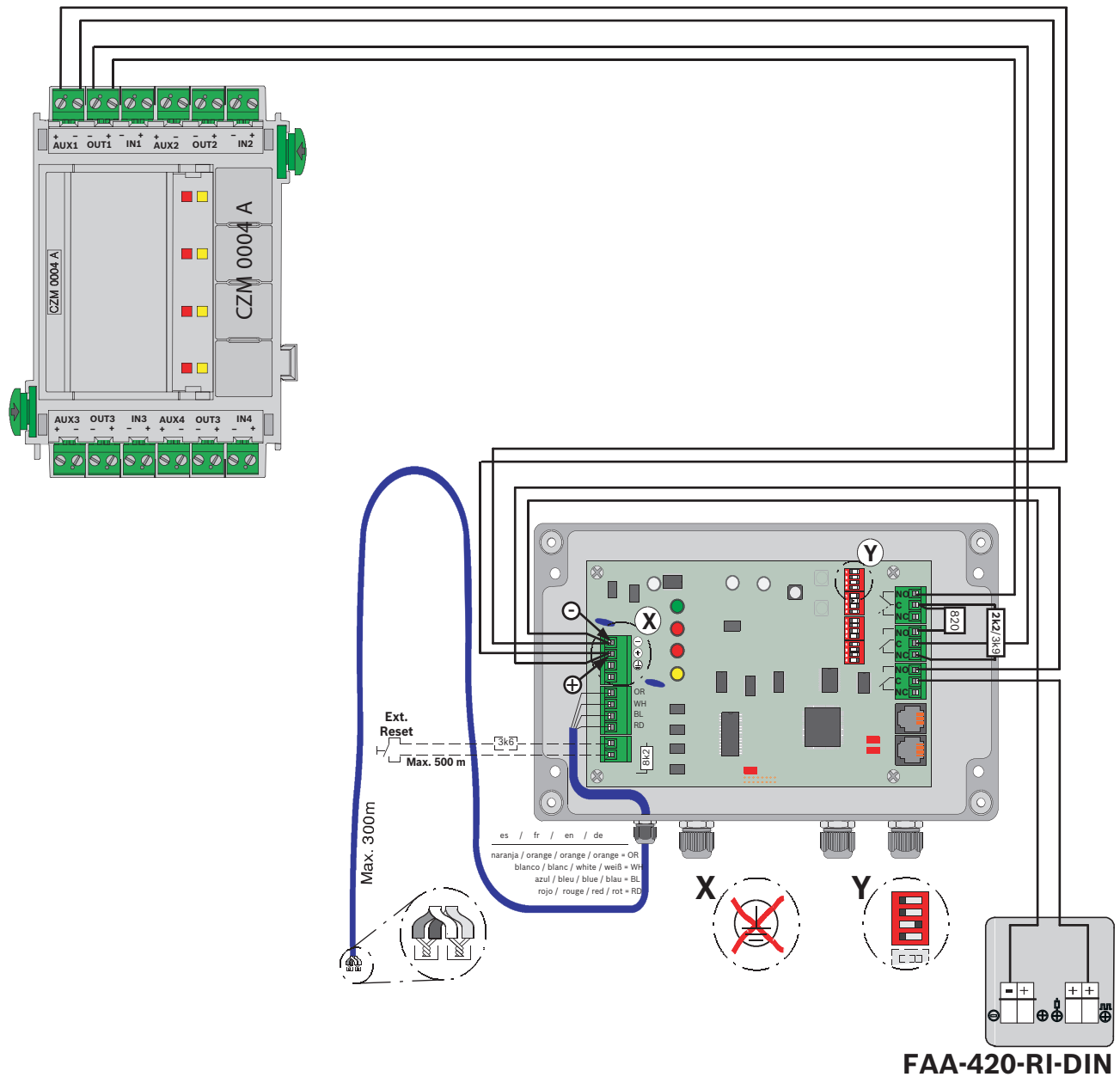


**FLM-420-NAC-D**

3.3.2 CZM 0004 A

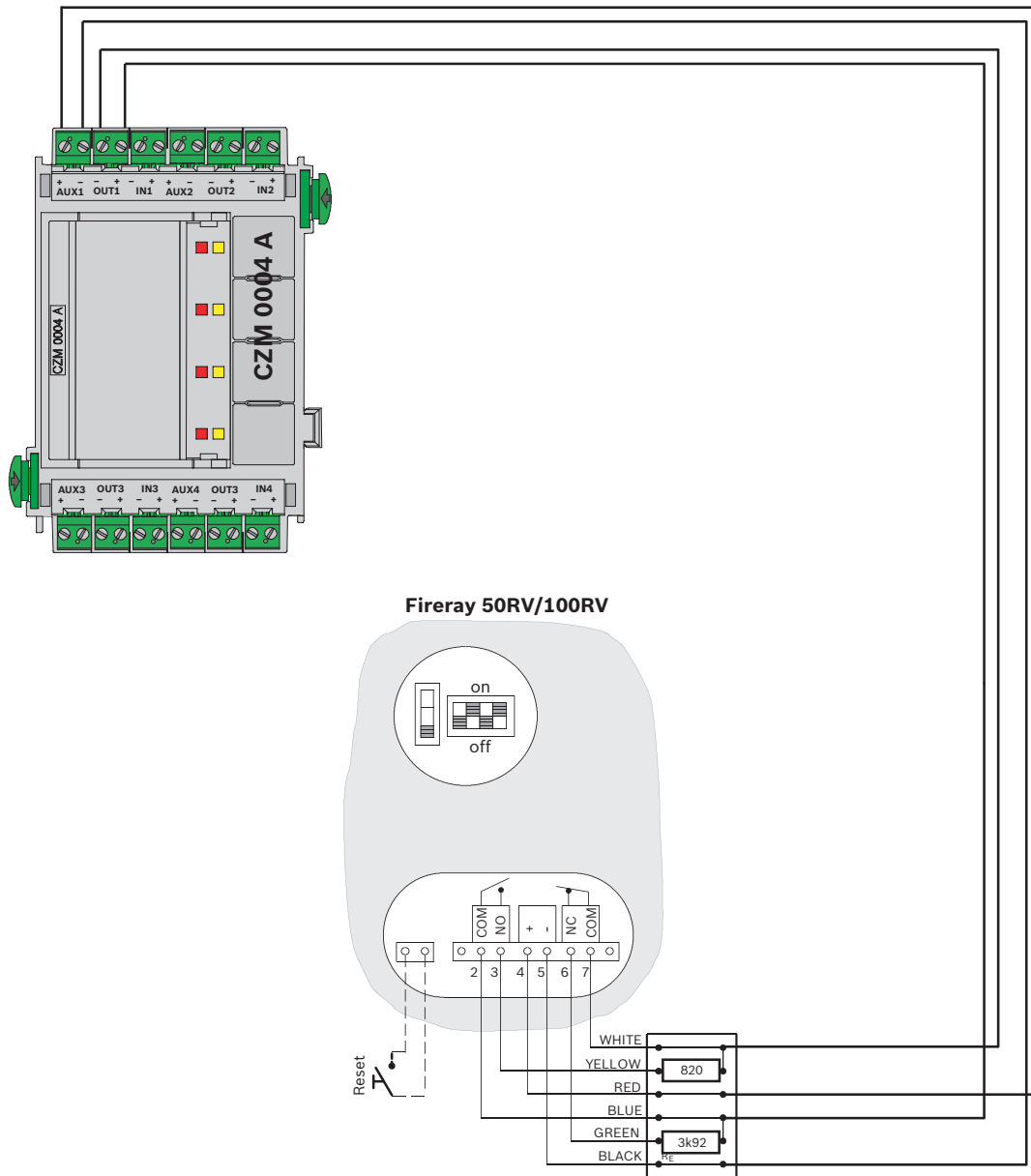


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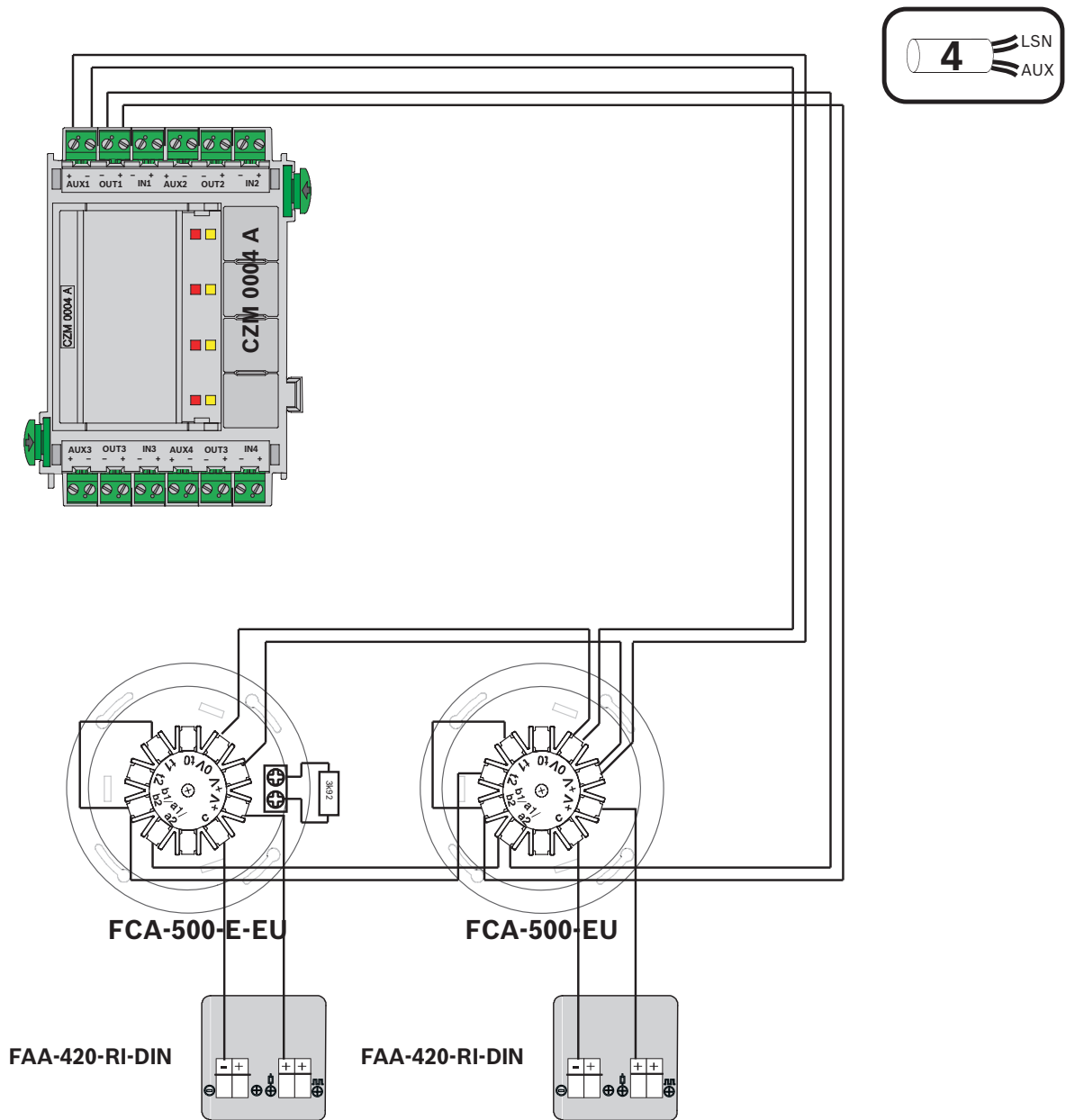
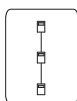


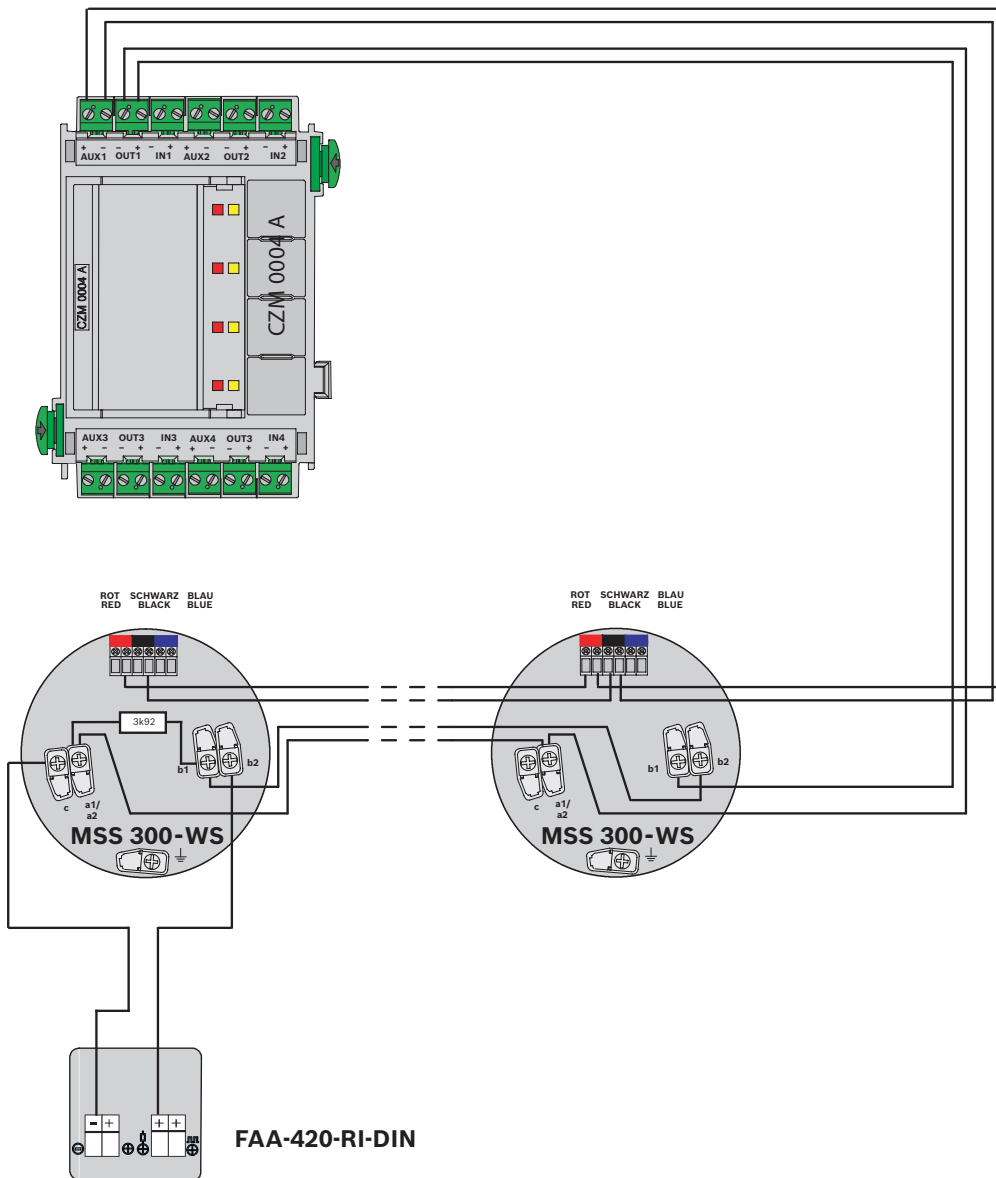
Fireray 50RV
Fireray 100RV





FCP-500

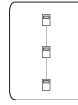


**MSS 300-WS**

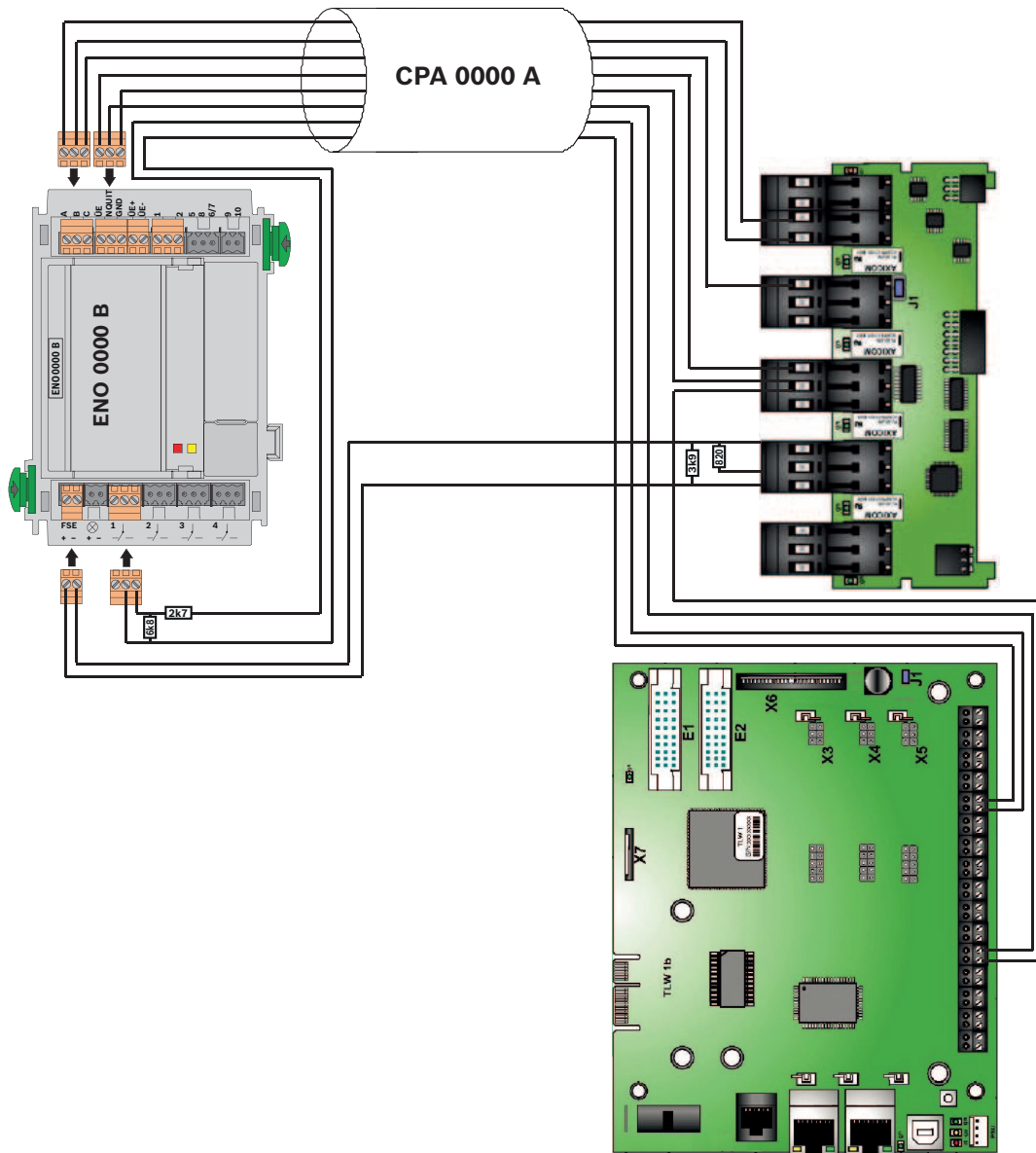
3.3.3 ENO 0000 A/B

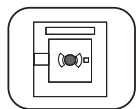
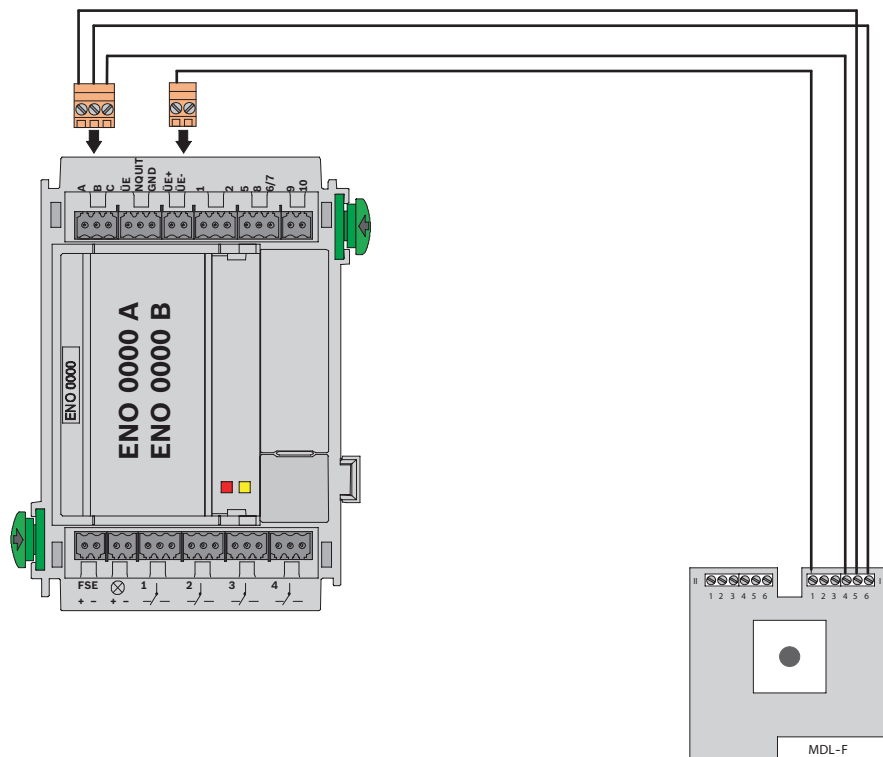


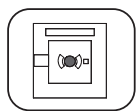
AT5000 IP/GPRS



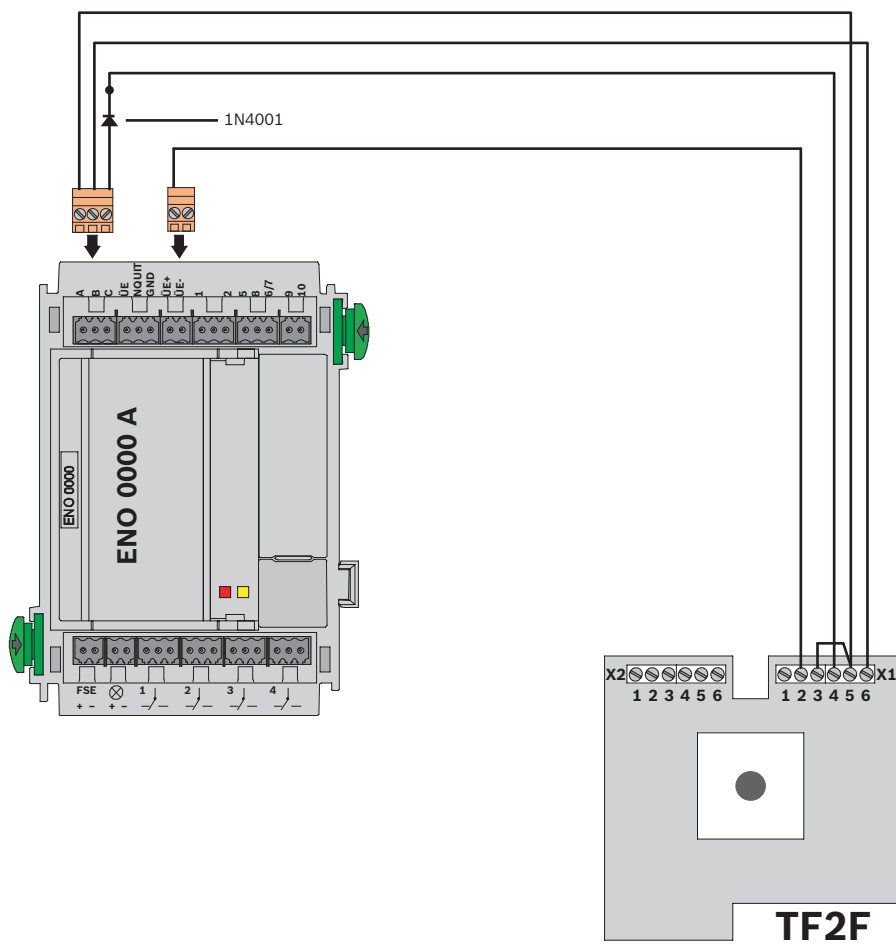
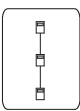
EN 54-2

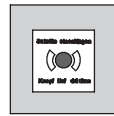
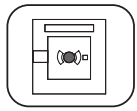
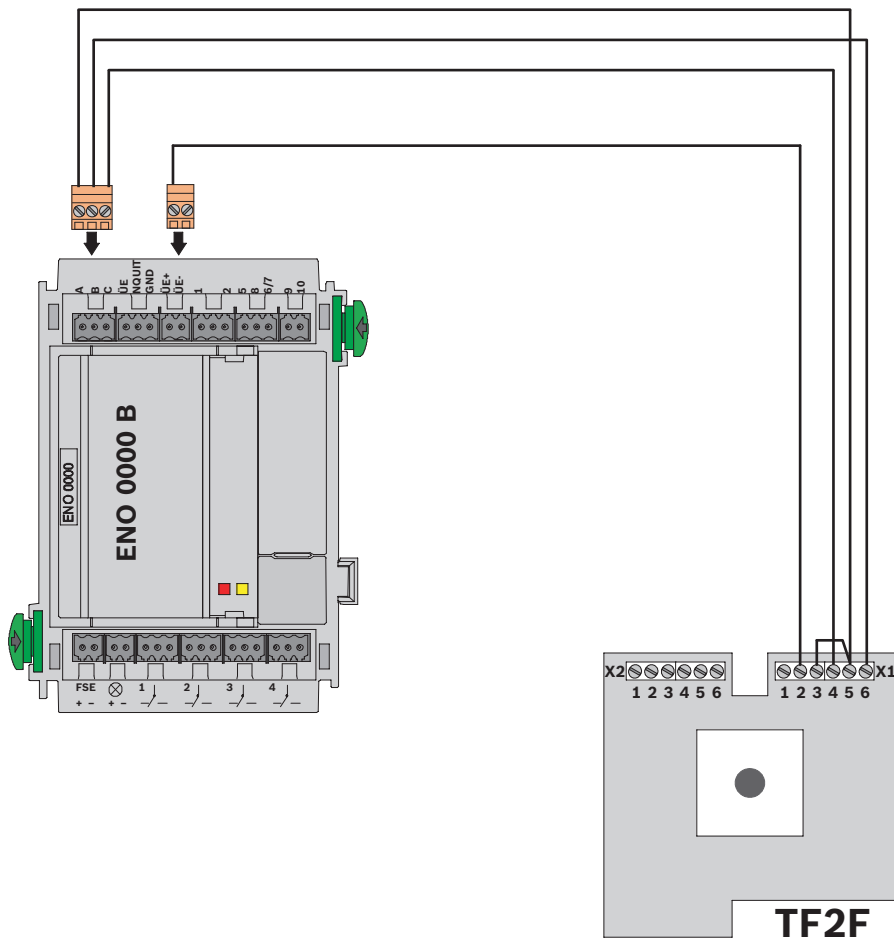
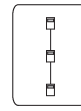


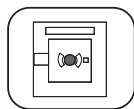
**MDL-F**



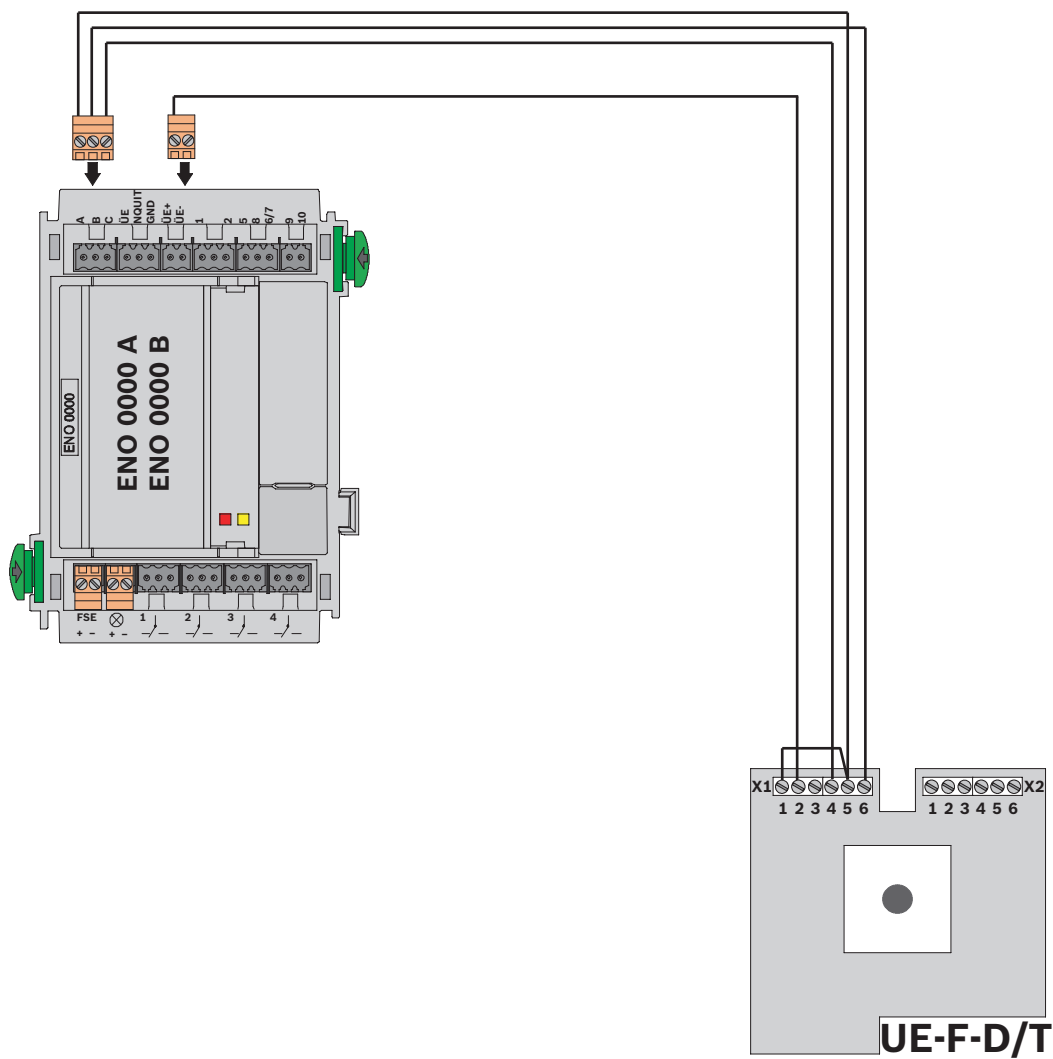
TF2F

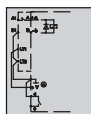
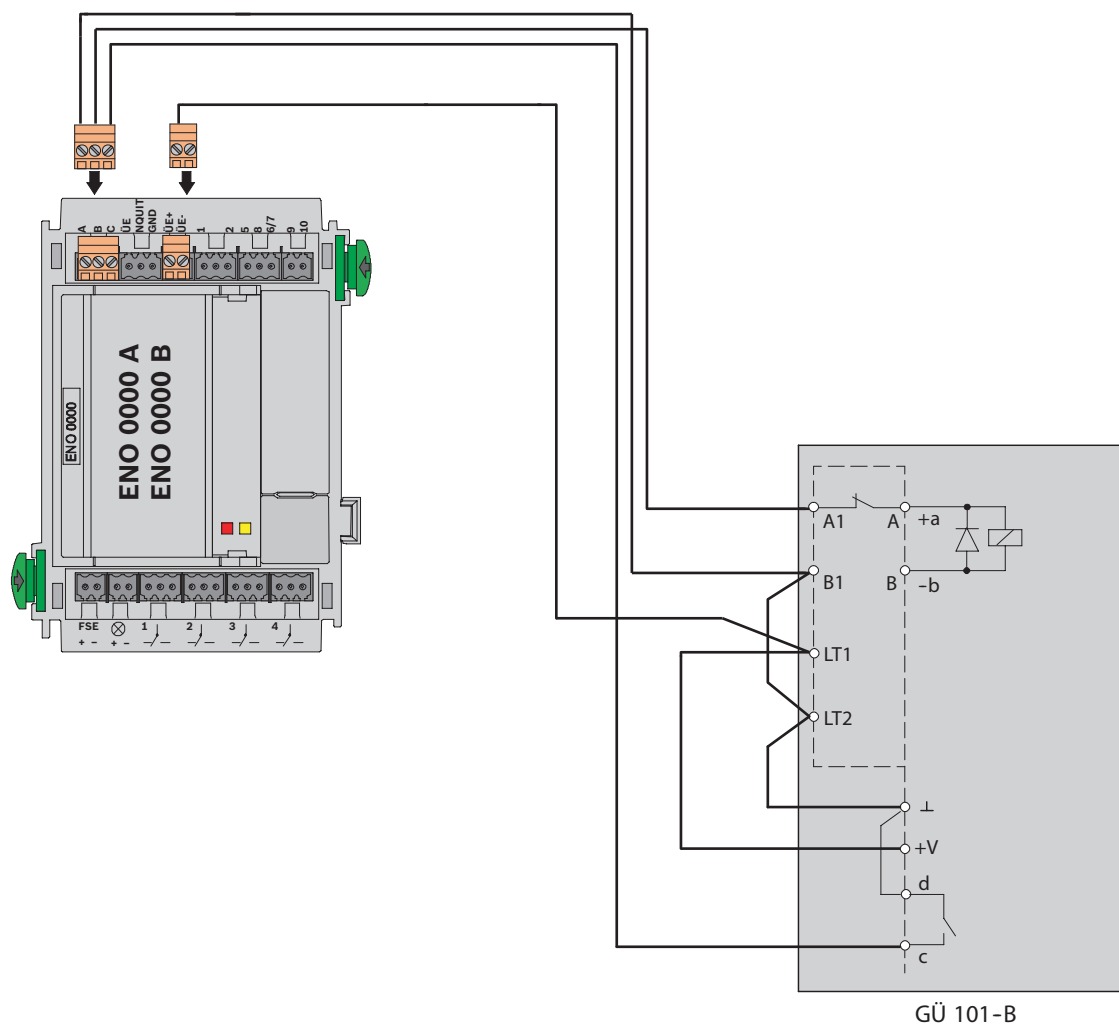
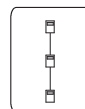


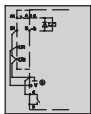
**TF2F**



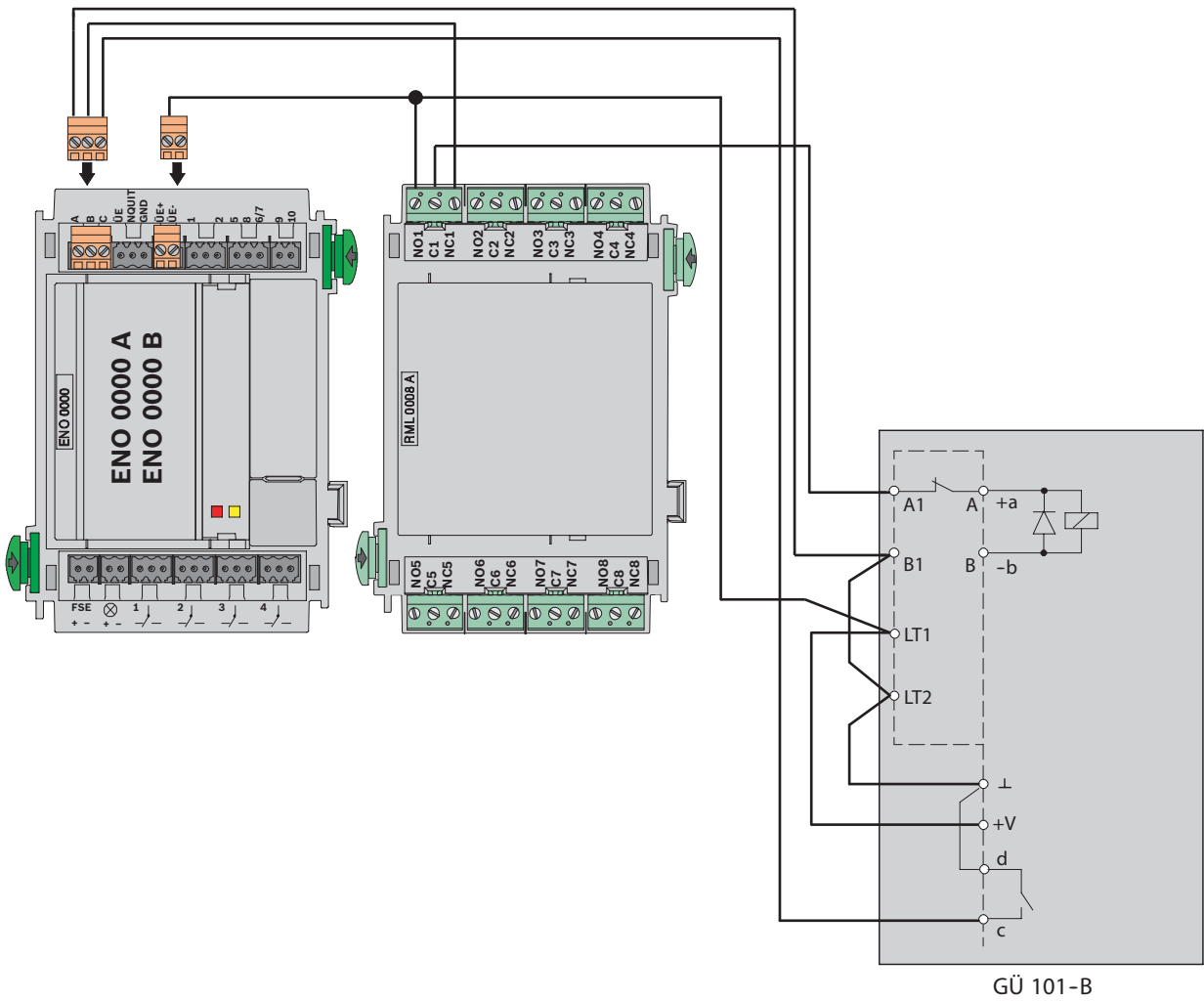
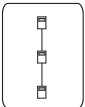
UE-F-D/T



**GÜ 101-B**



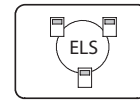
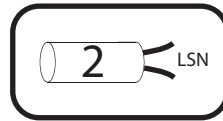
GÜ 101-B



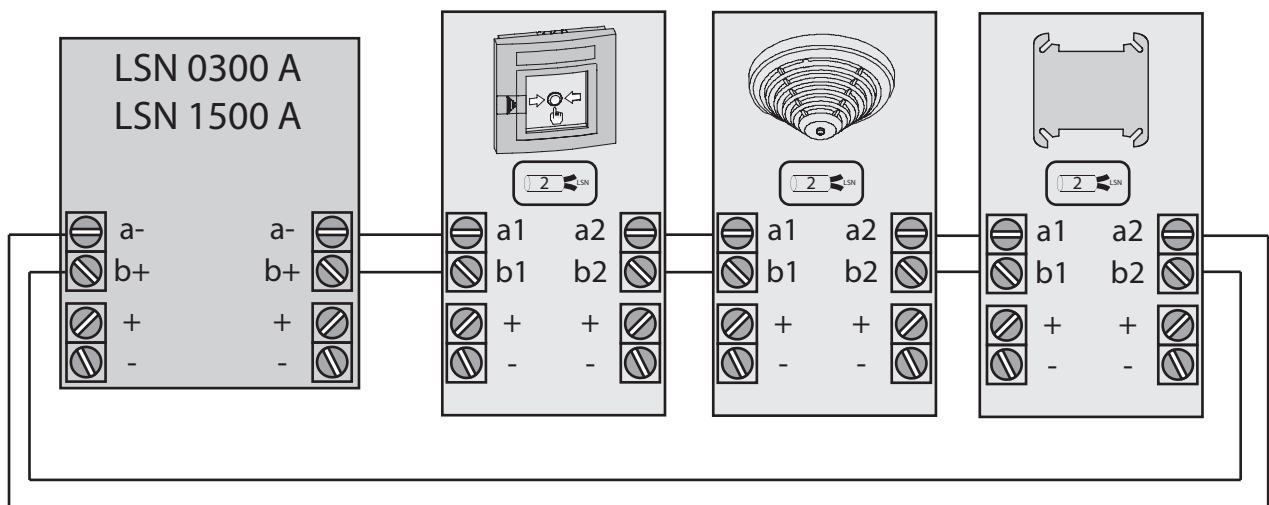
GÜ 101-B

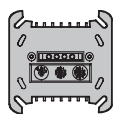
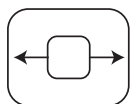
3.3.4

LSN 0300 A

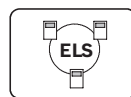


VdS 2489

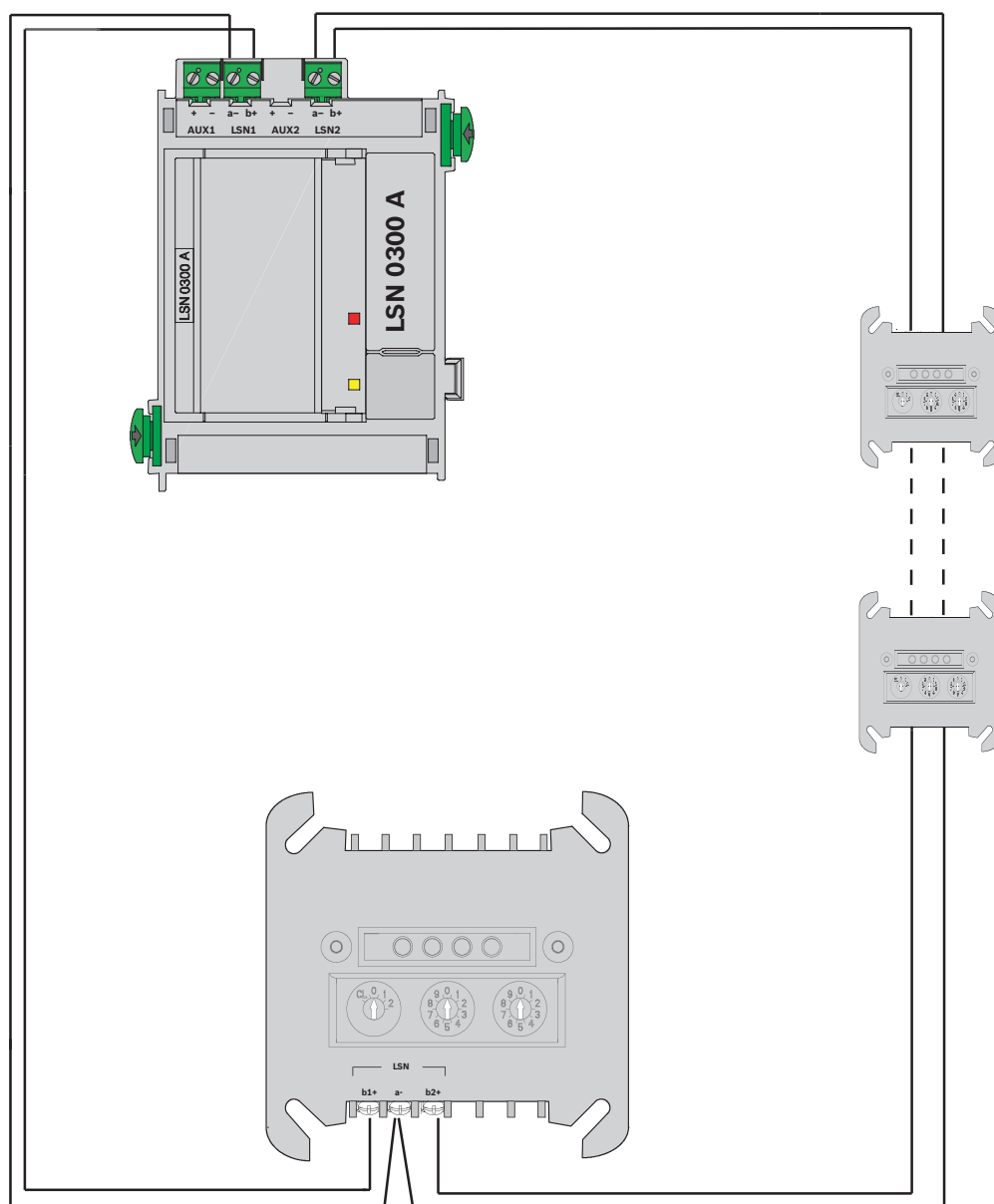


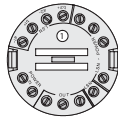
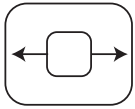


FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

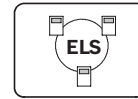


VdS 2489

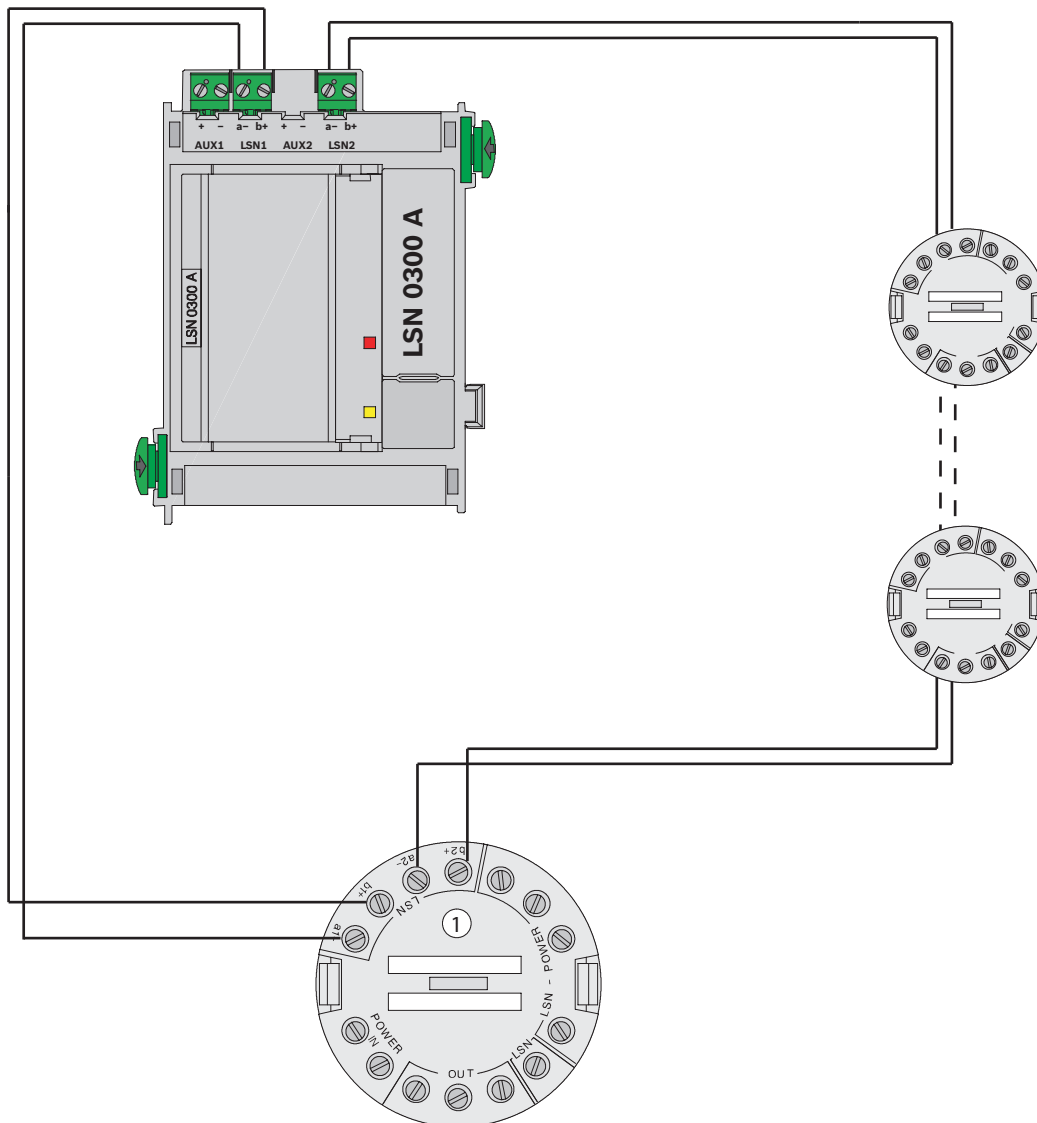


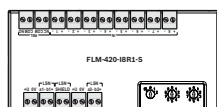
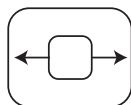
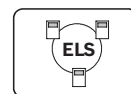
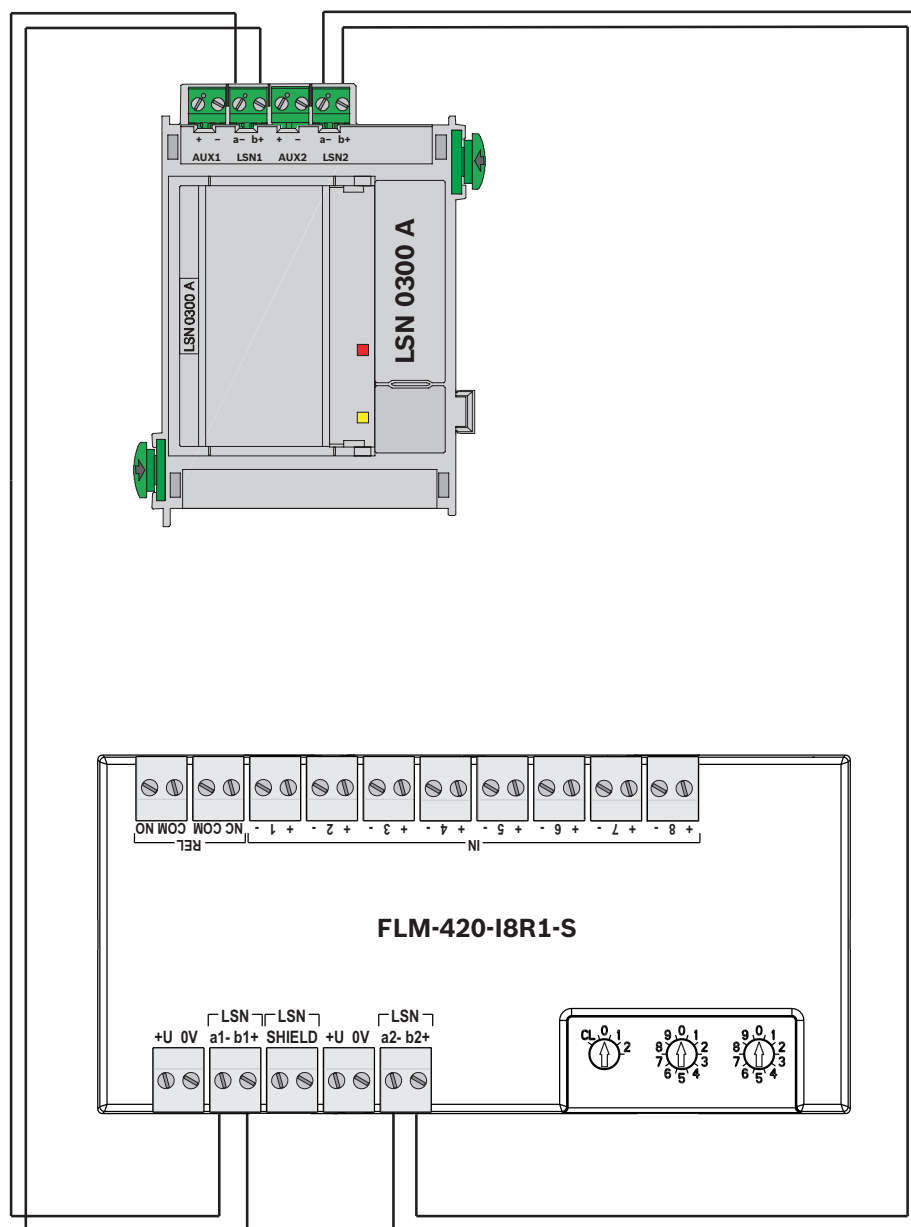


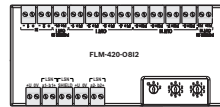
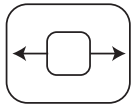
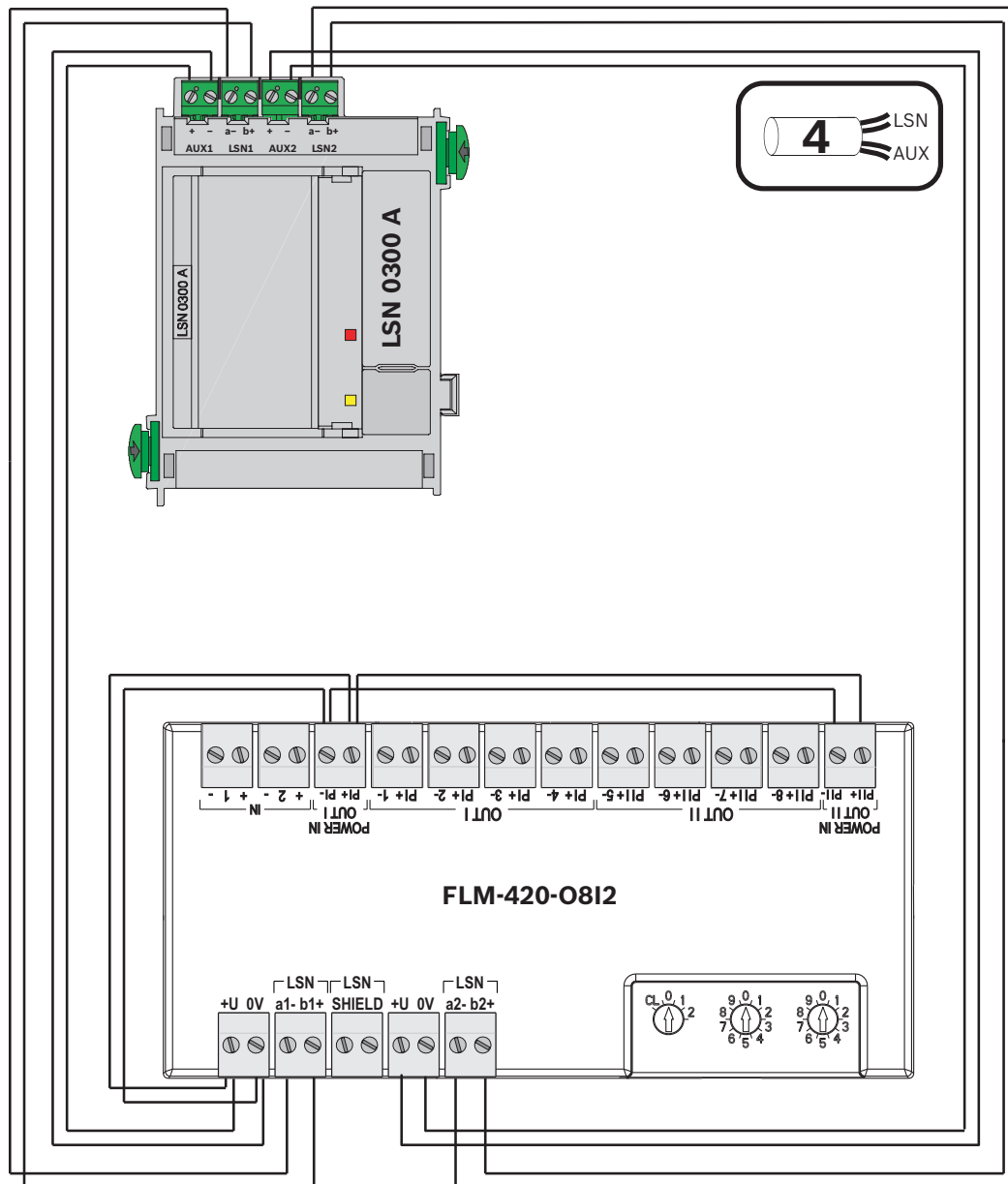
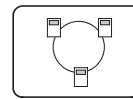
FLM-420-I2-E/W
FLM-420-RLV1-E

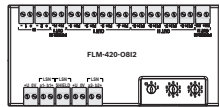
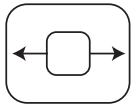
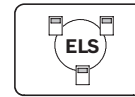
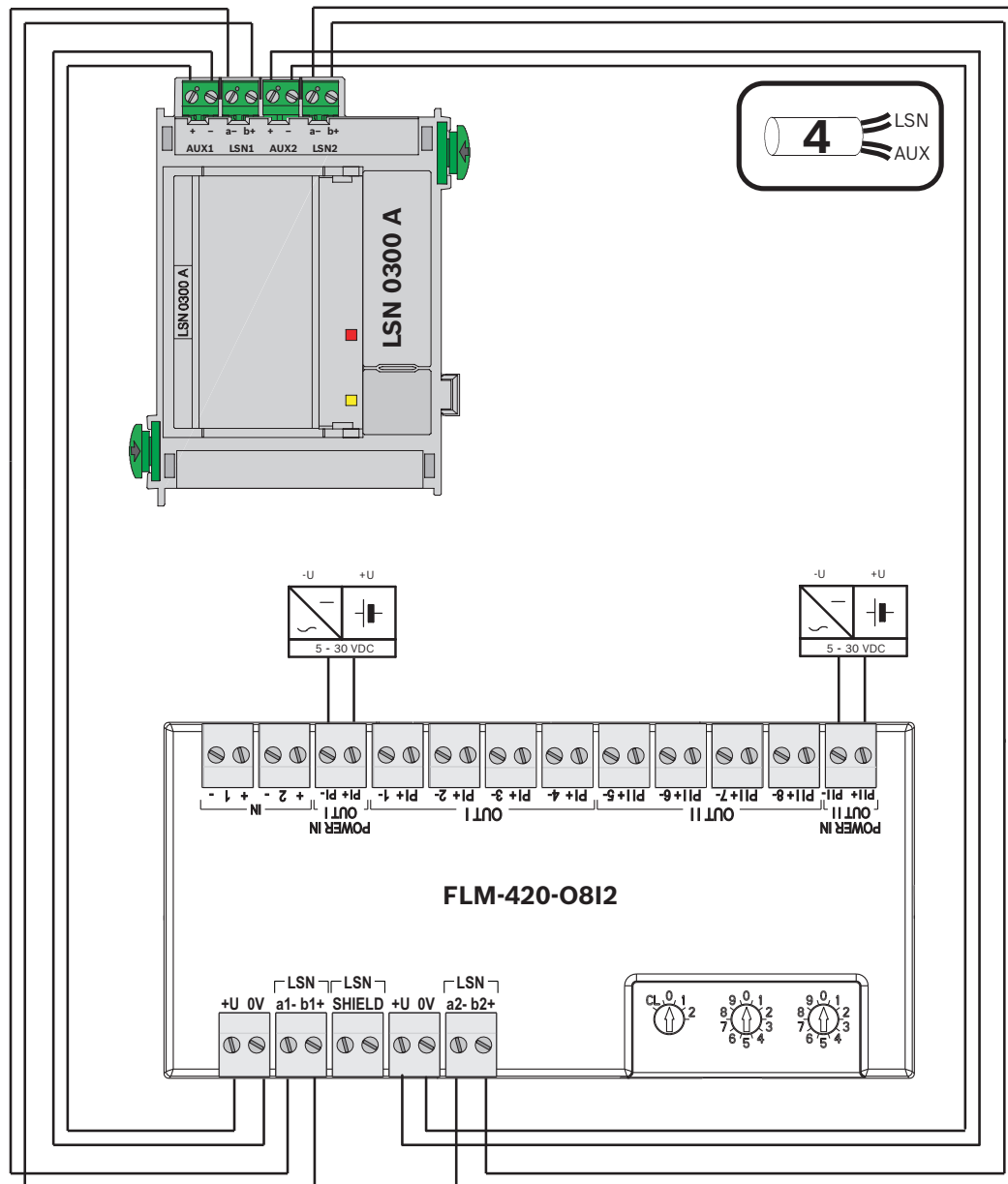


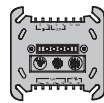
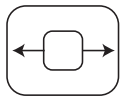
VdS 2489



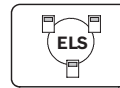
**FLM-420-I8R1-S****VdS 2489**

**FLM-420-O8I2-S**

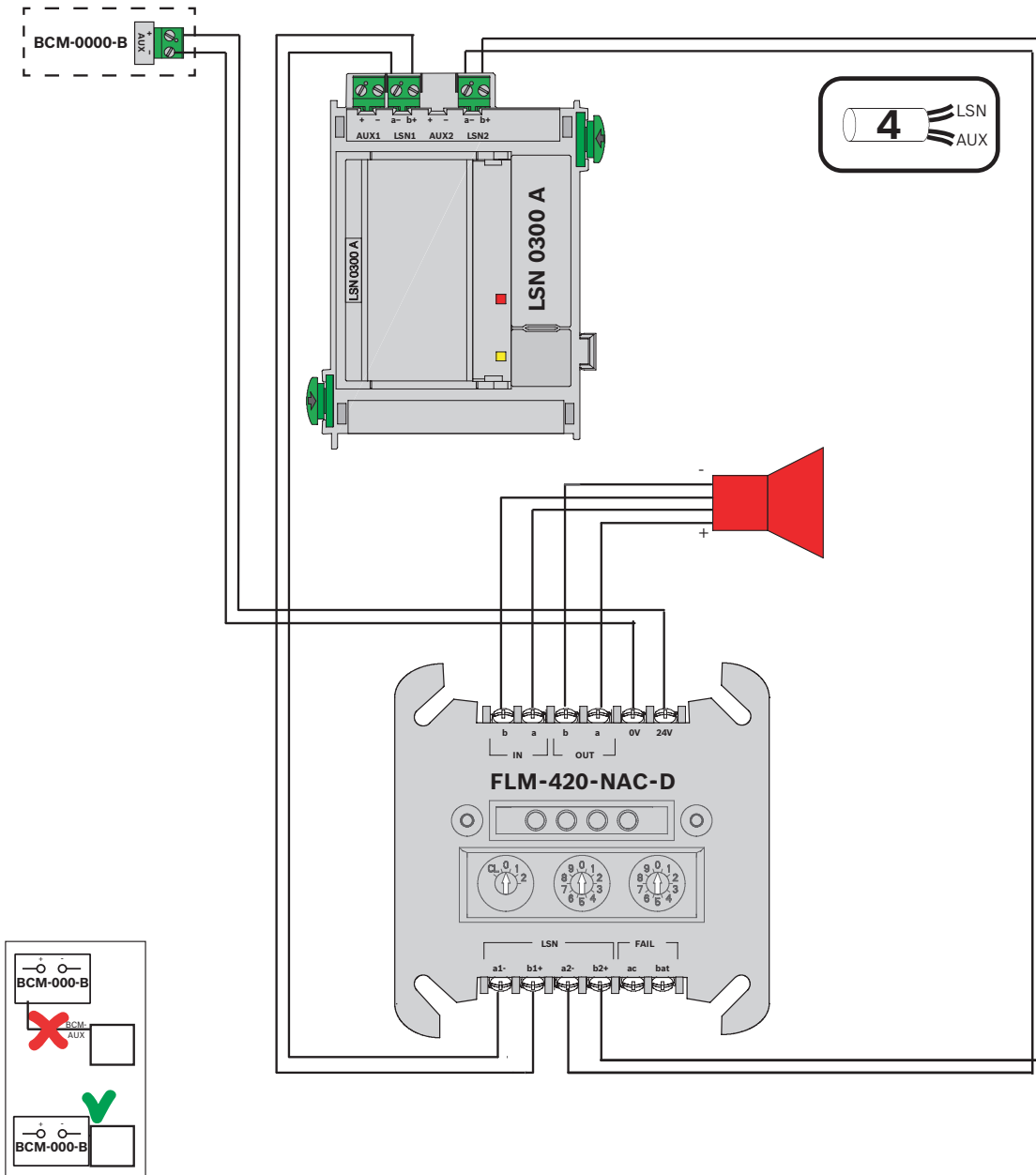
**FLM-420-0812-S****VdS 2489**

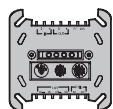
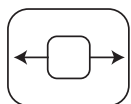


FLM-420-NAC-D/S

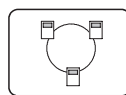


VdS 2489

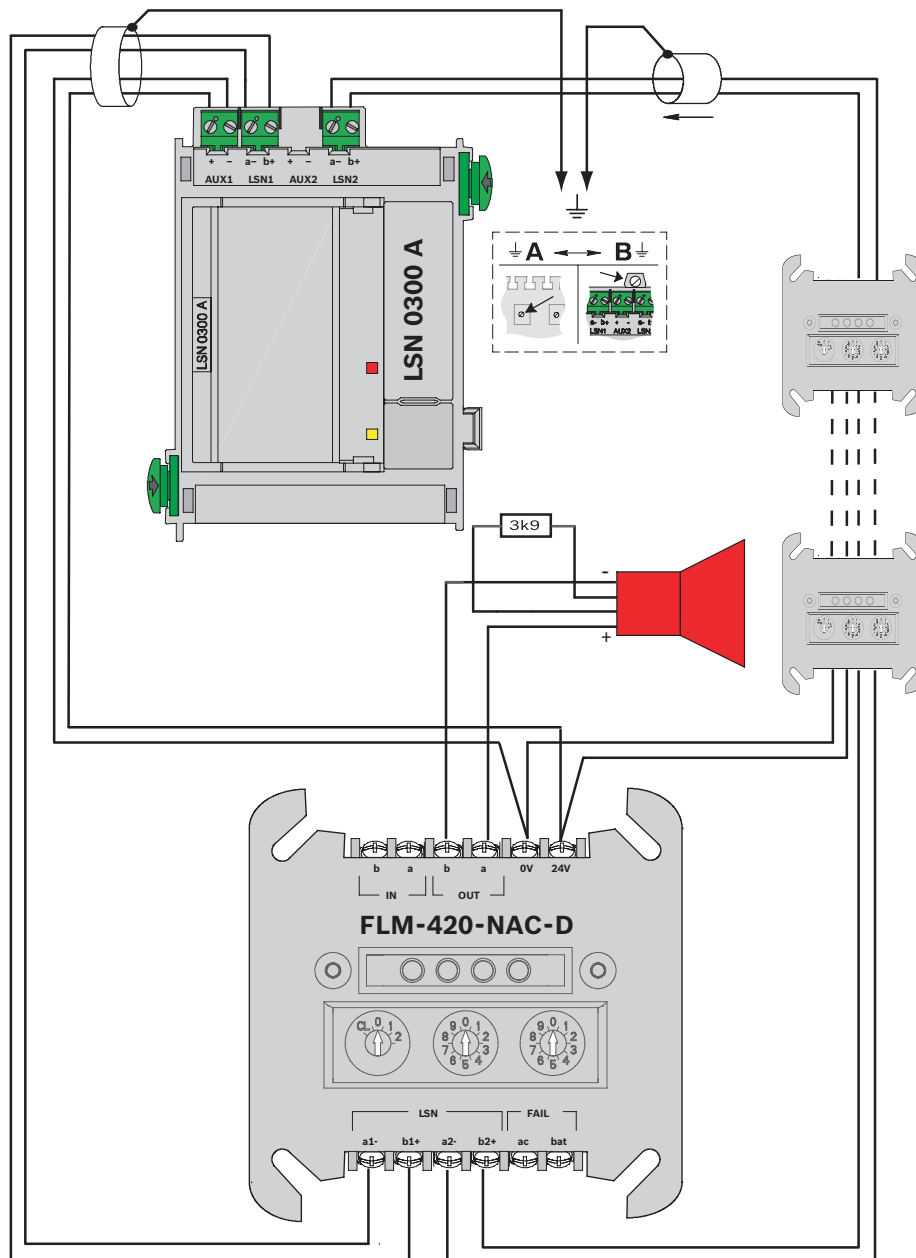


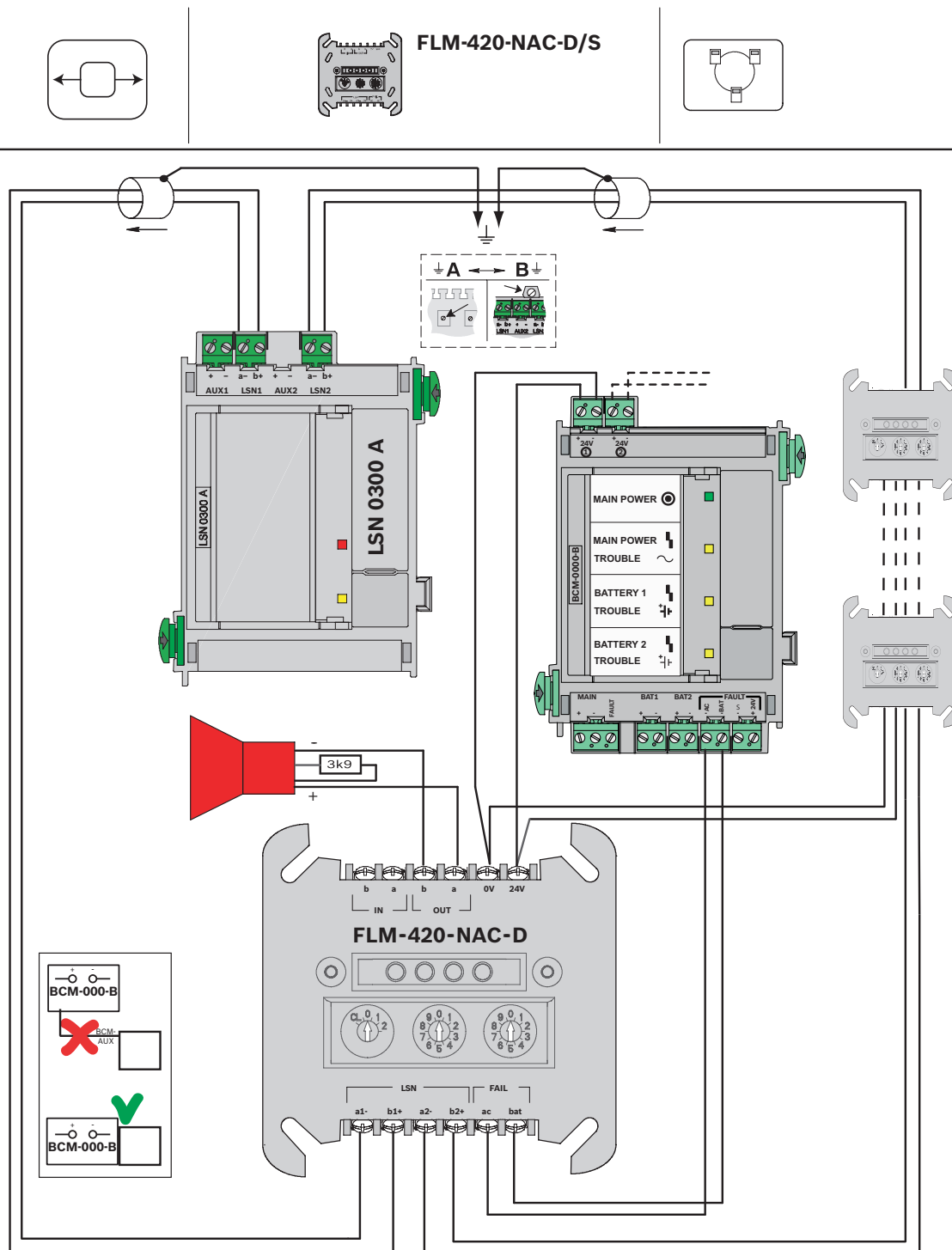


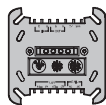
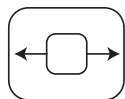
FLM-420-NAC-D/S



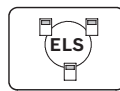
EN 54-2



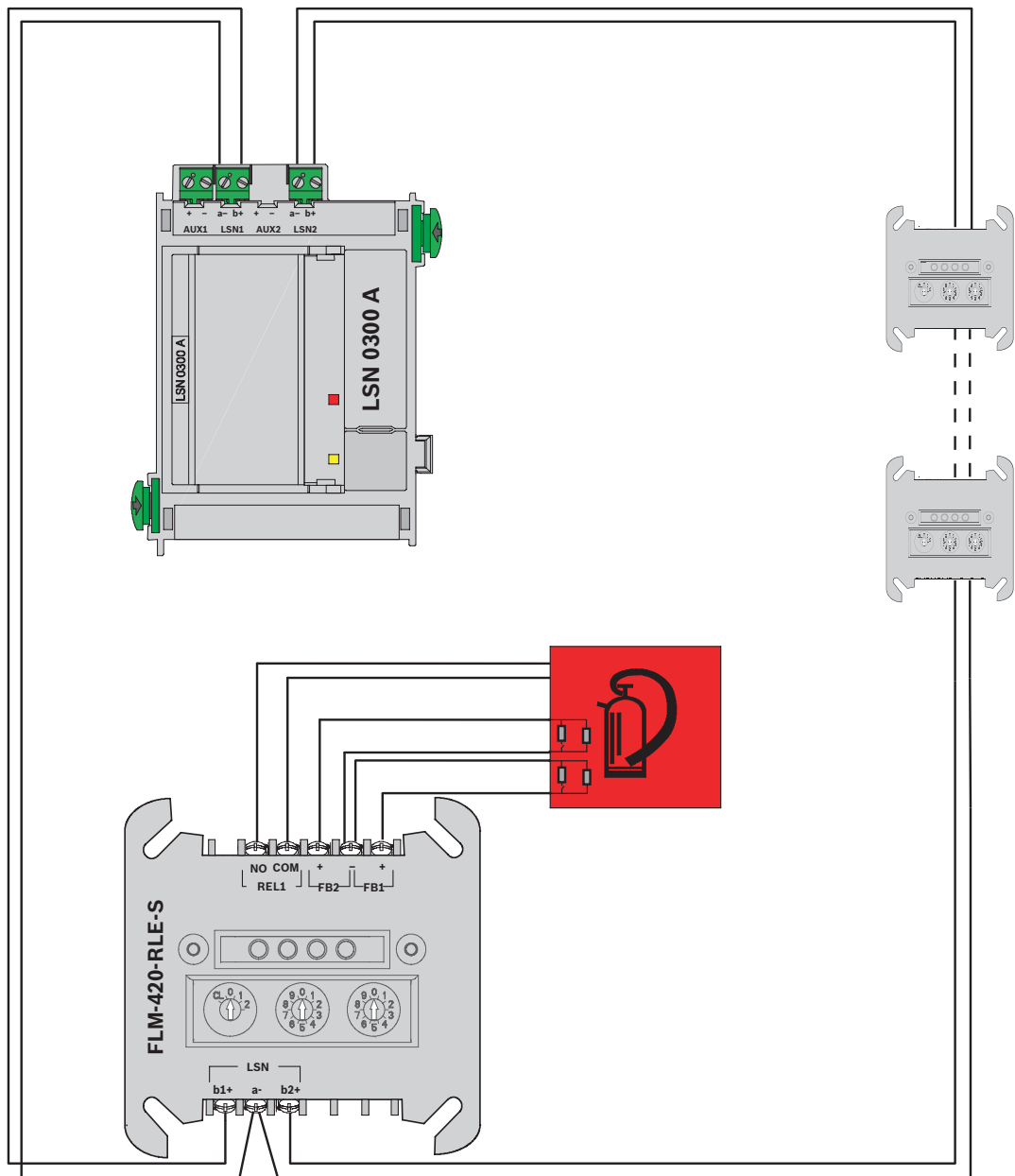


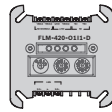
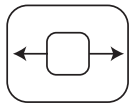
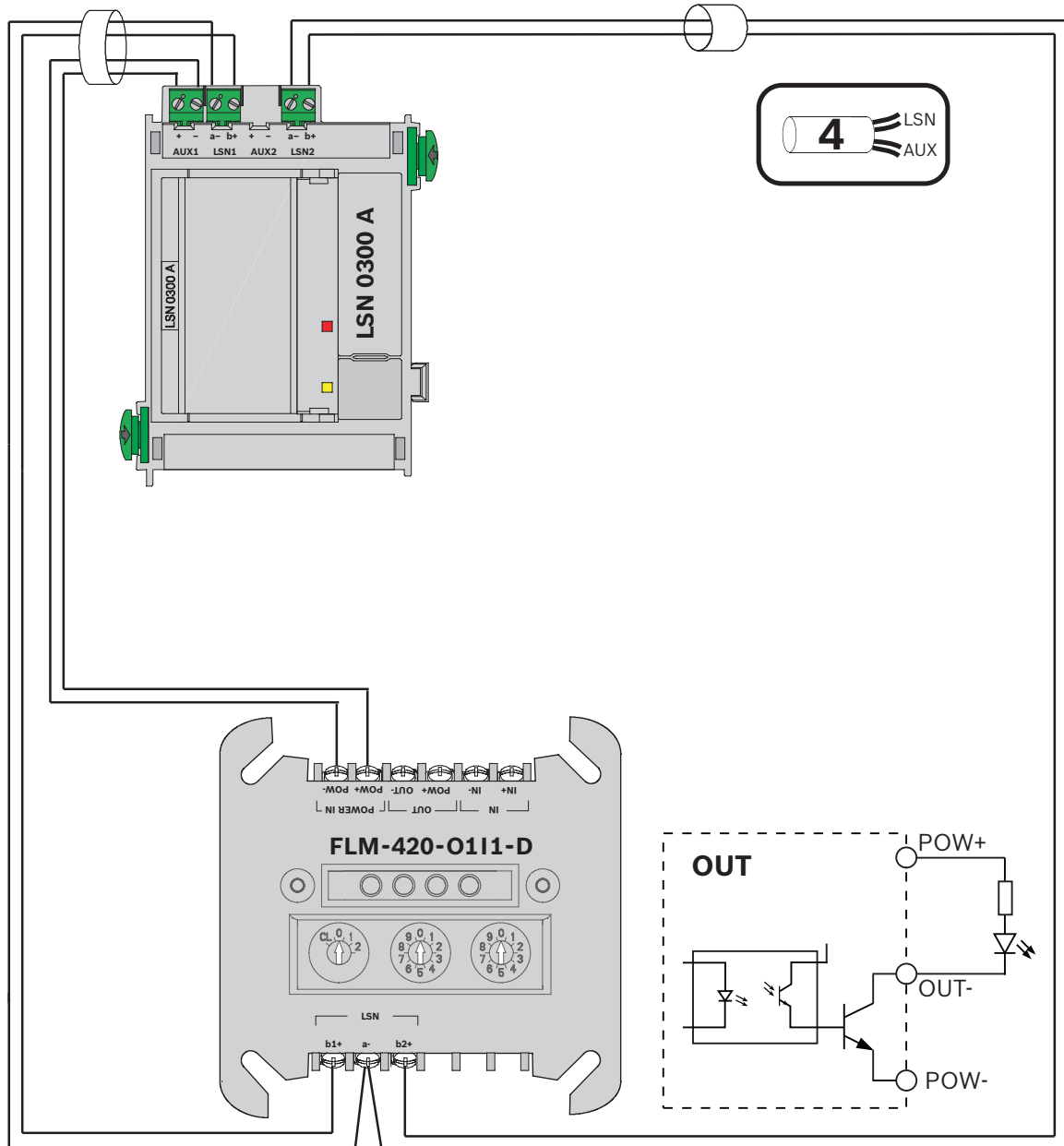
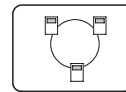


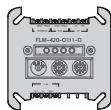
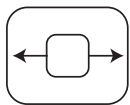
FLM-420-RLE-S



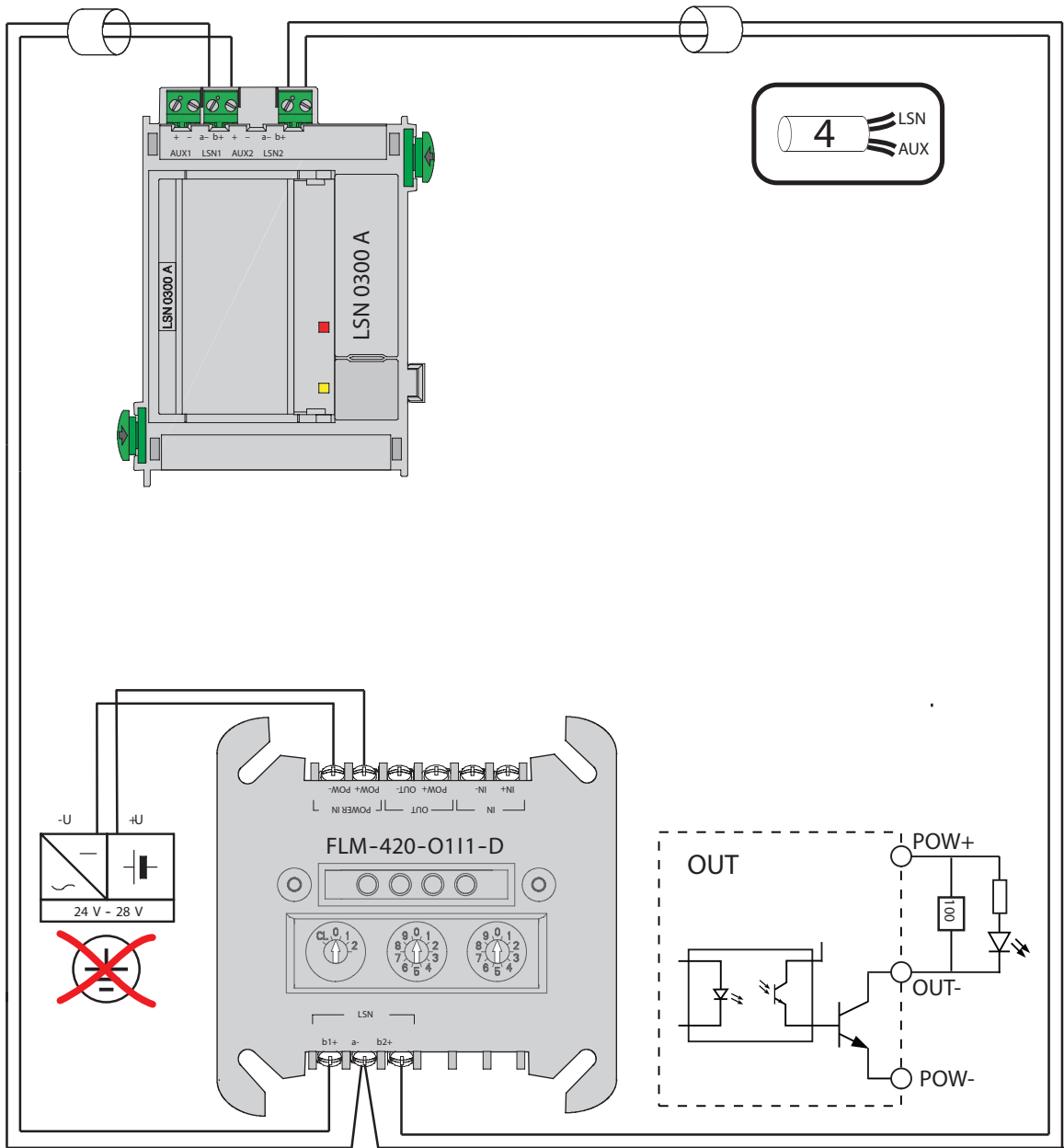
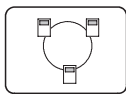
VdS 2489

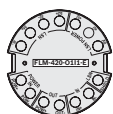
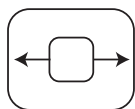


**FLM-420-O1I1-D**

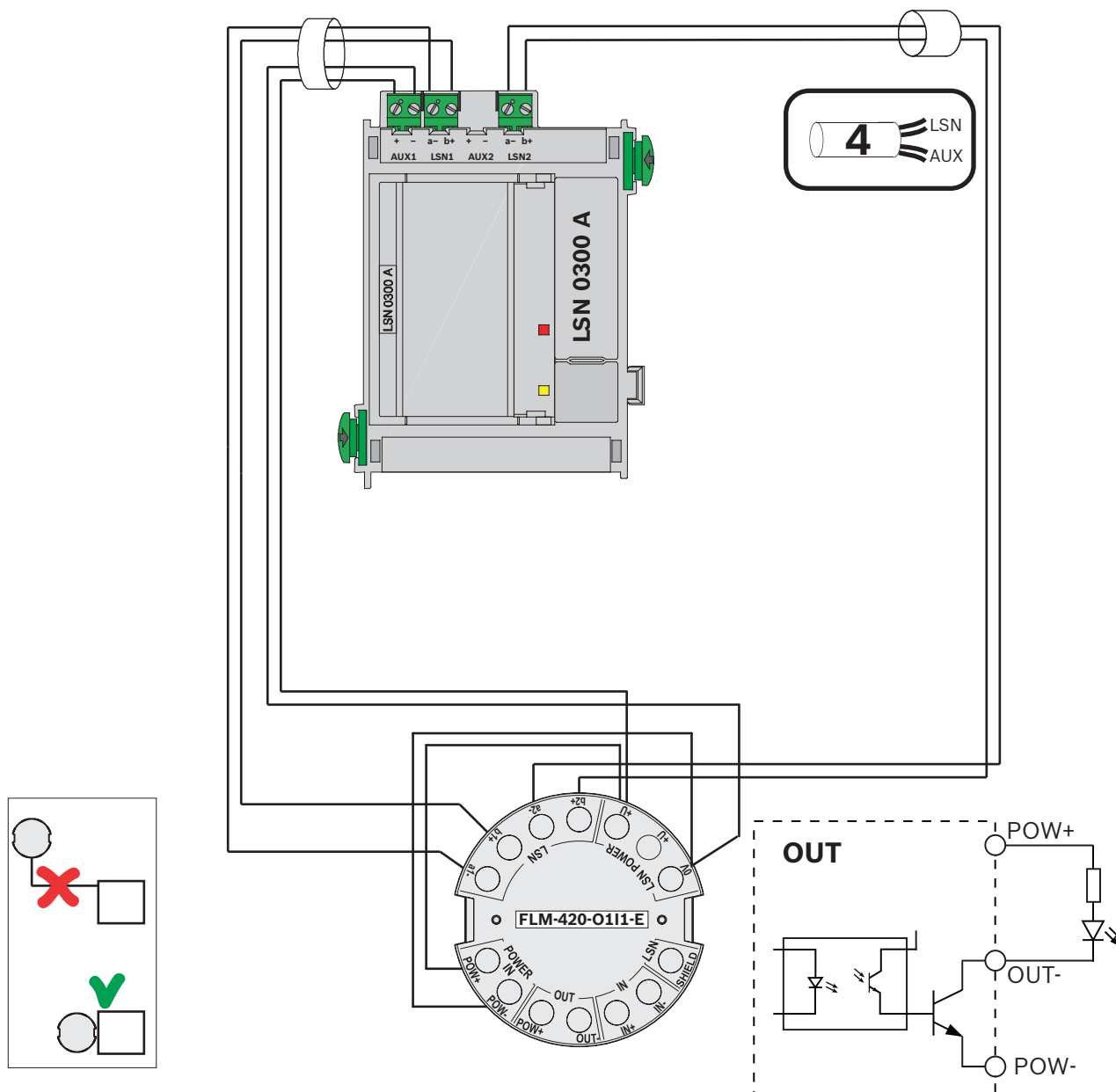
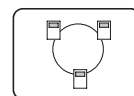


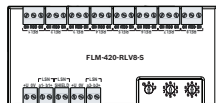
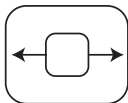
FLM-420-O111-D



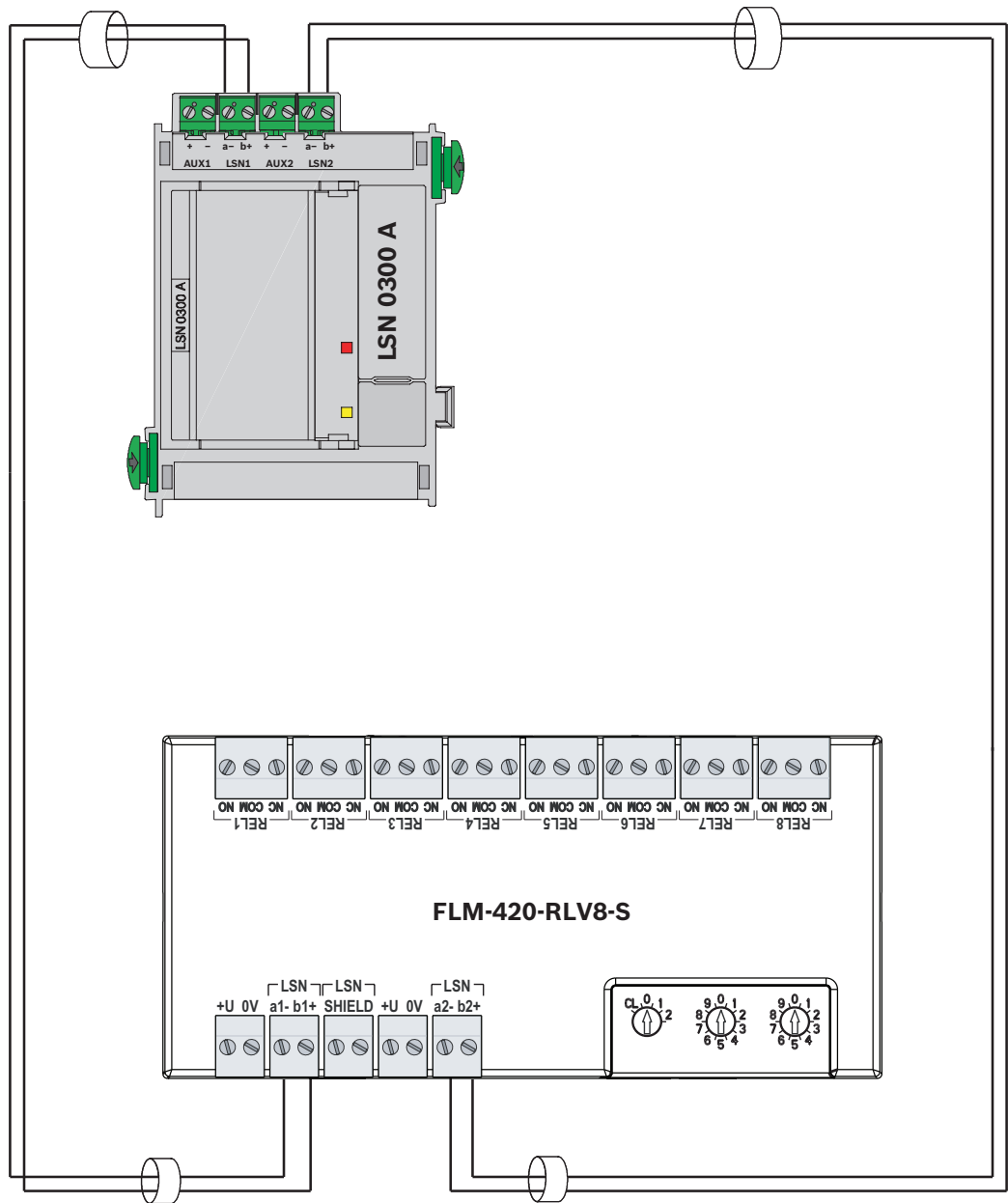
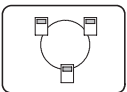


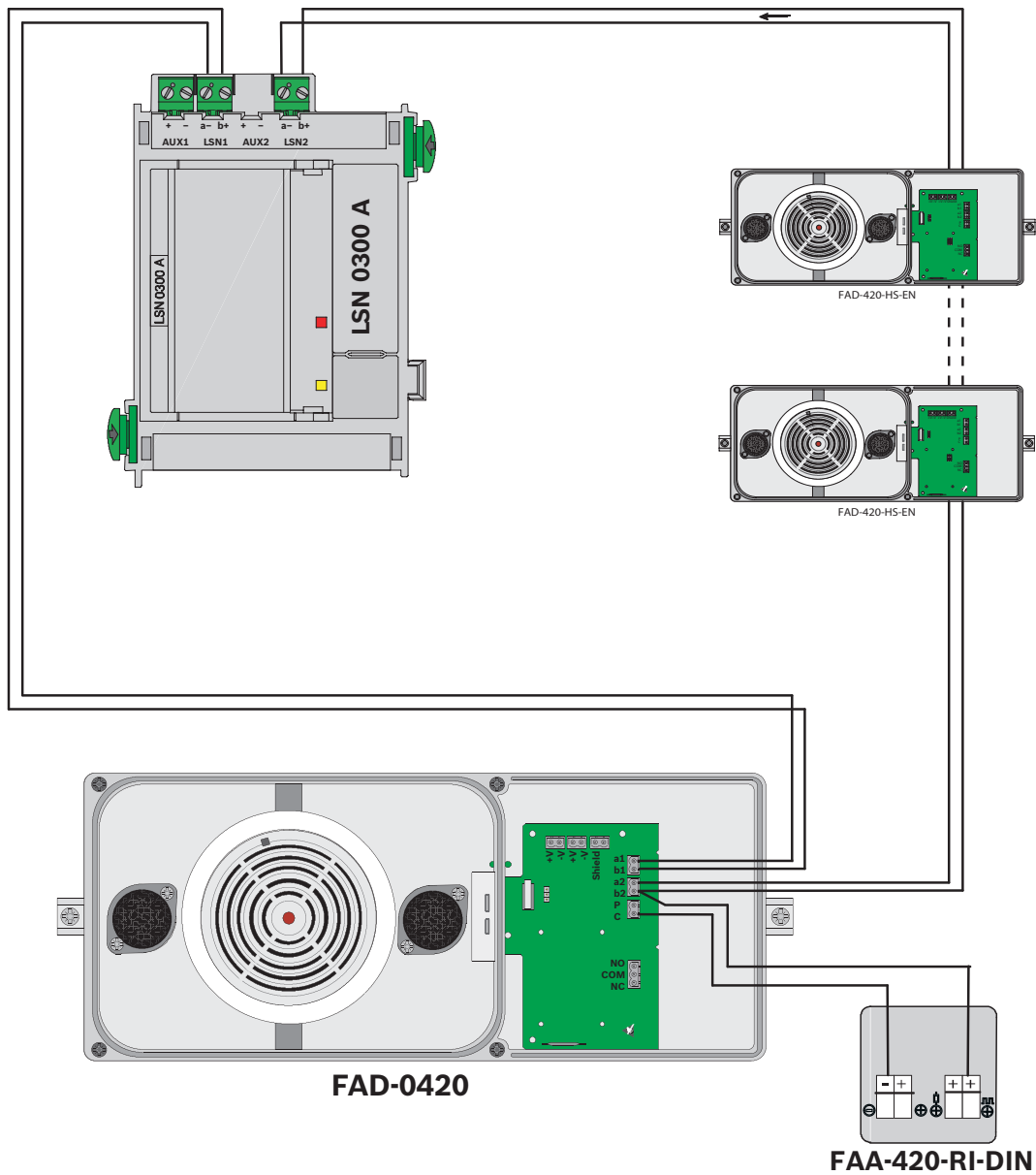
FLM-420-O1I1-E

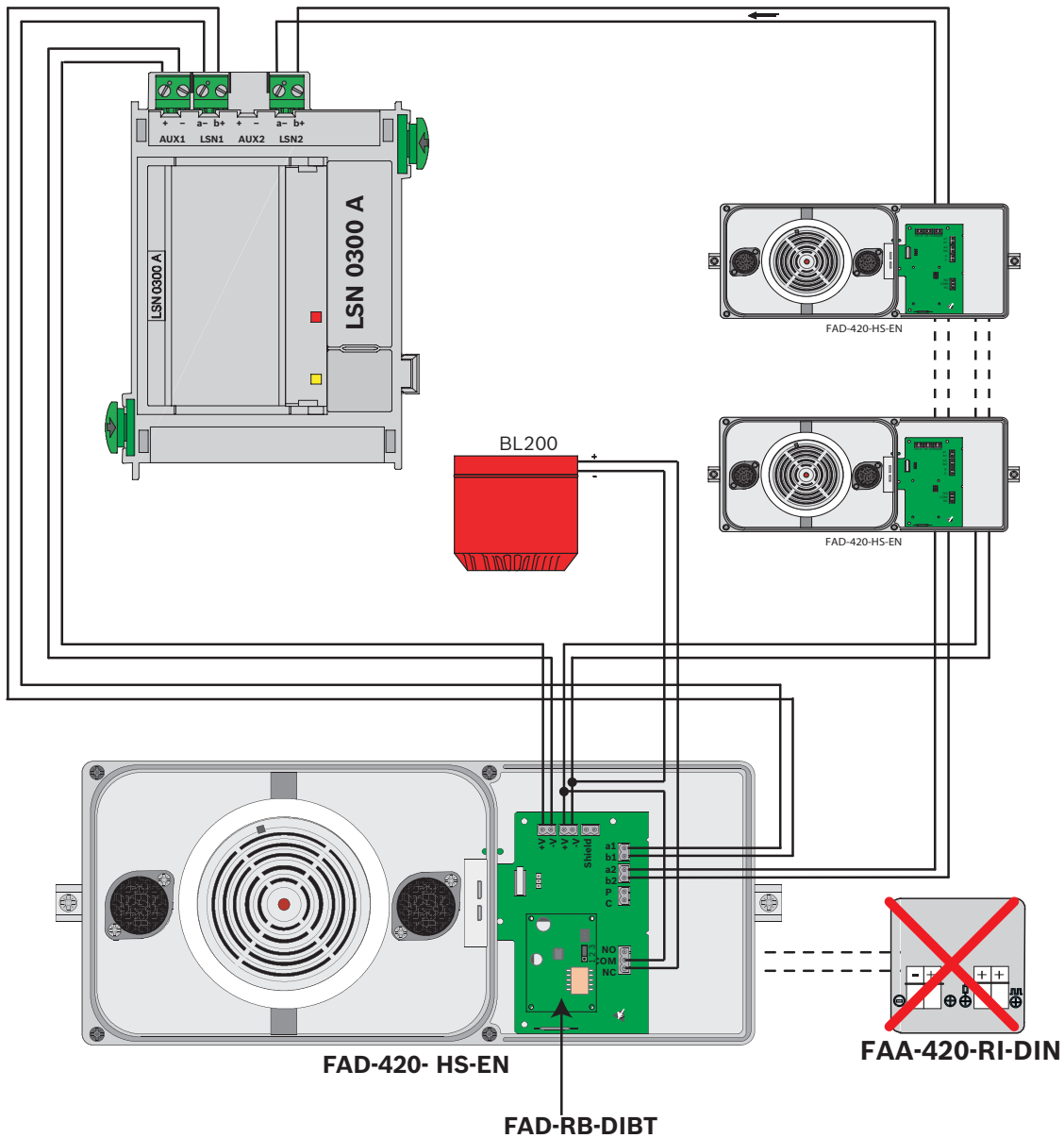


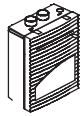
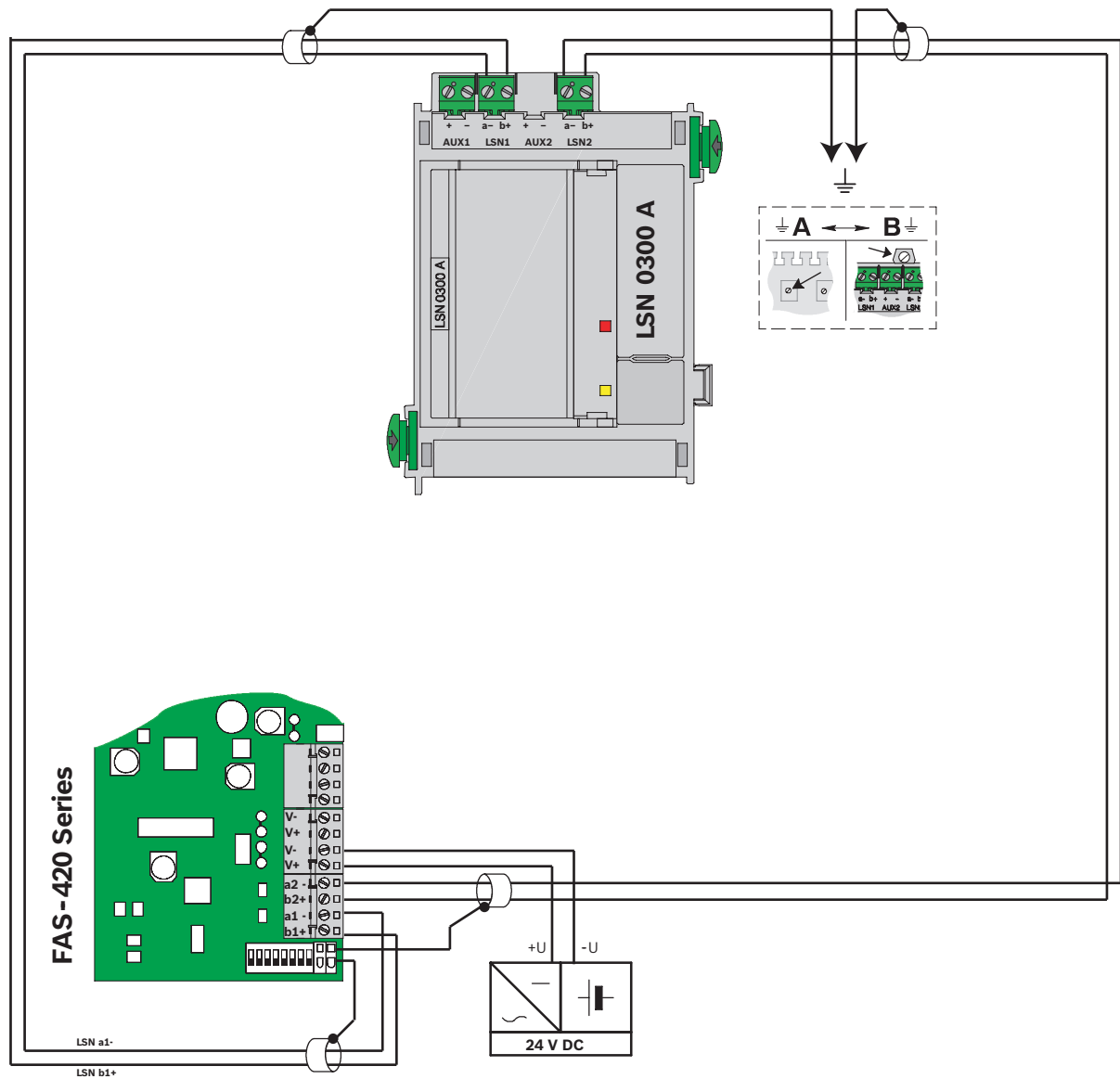


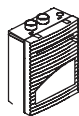
FLM-420-RLV8-S



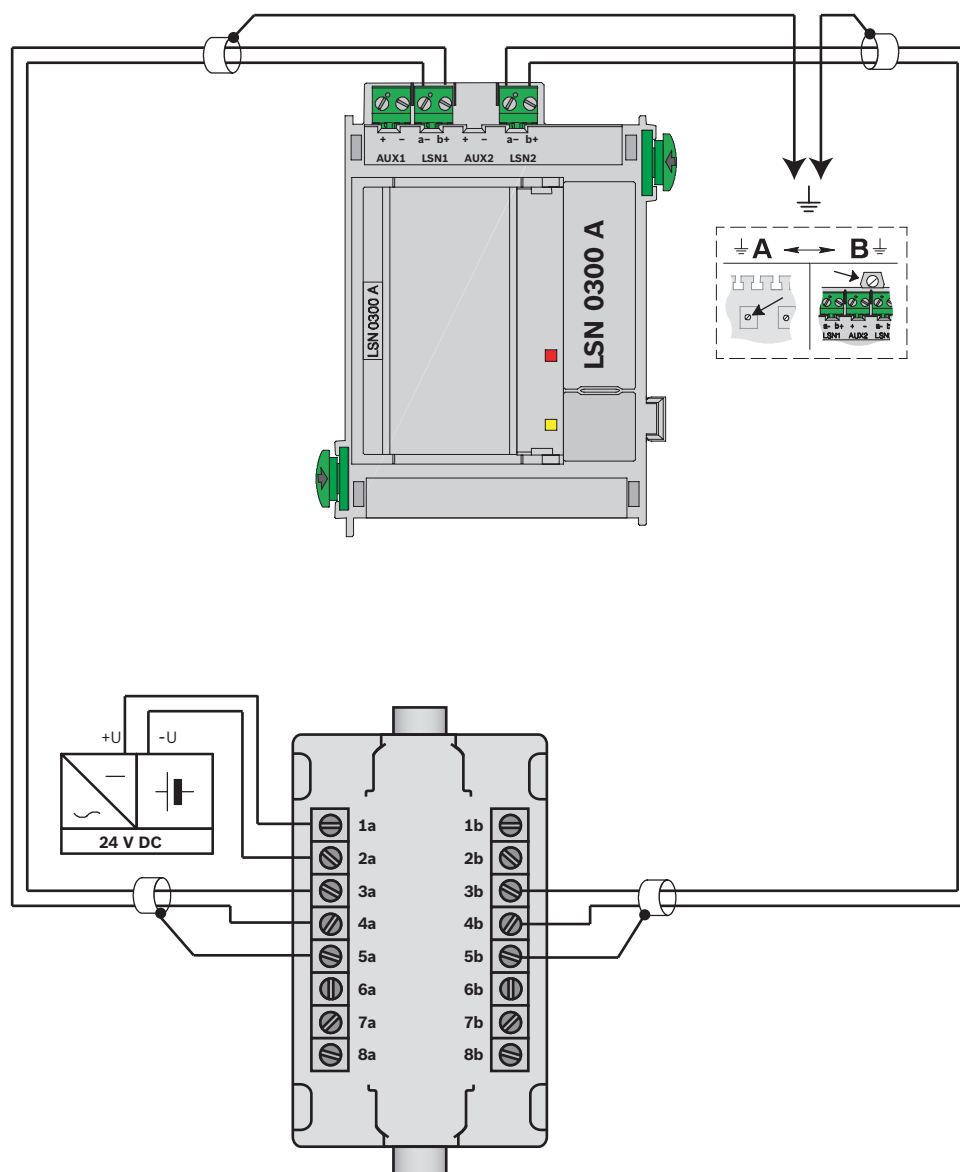
**FAD-0420**

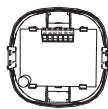
**FAD-420-HS-EN**

**FAS-420 Series**

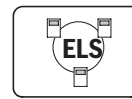


FAS-420-TM Series

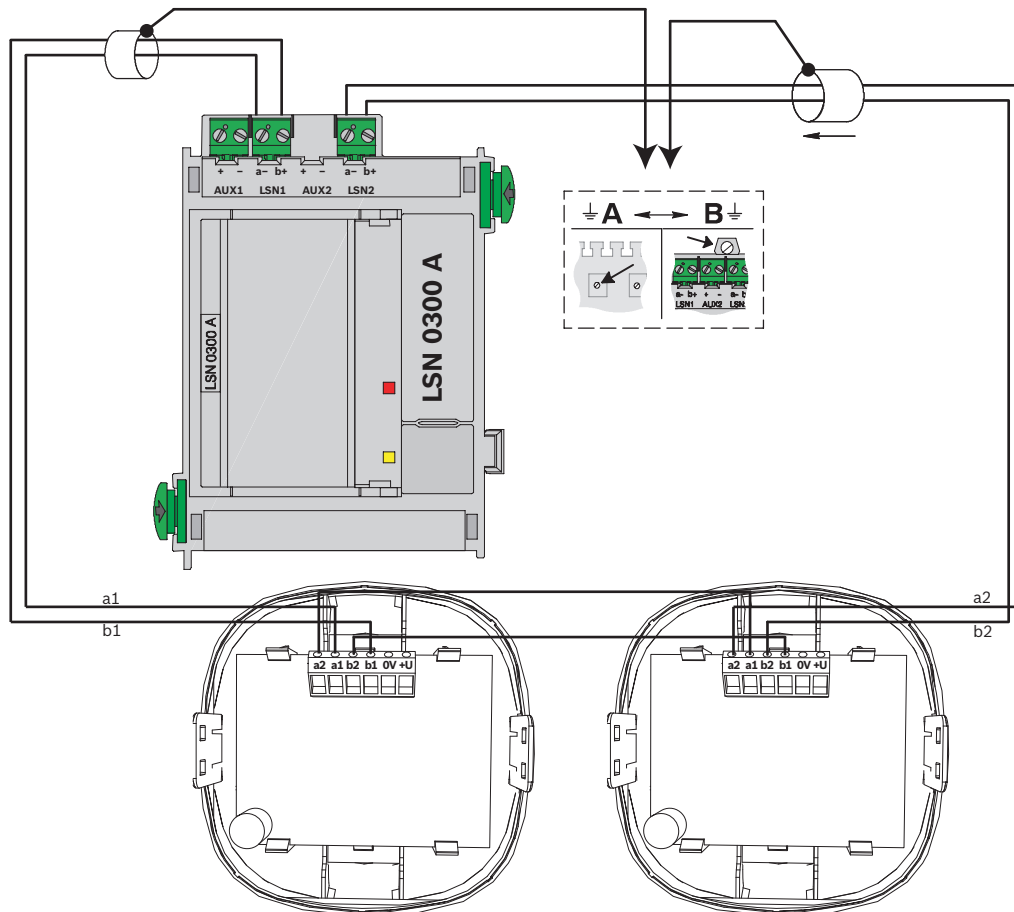




FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A



VdS 2489

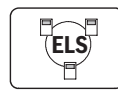


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

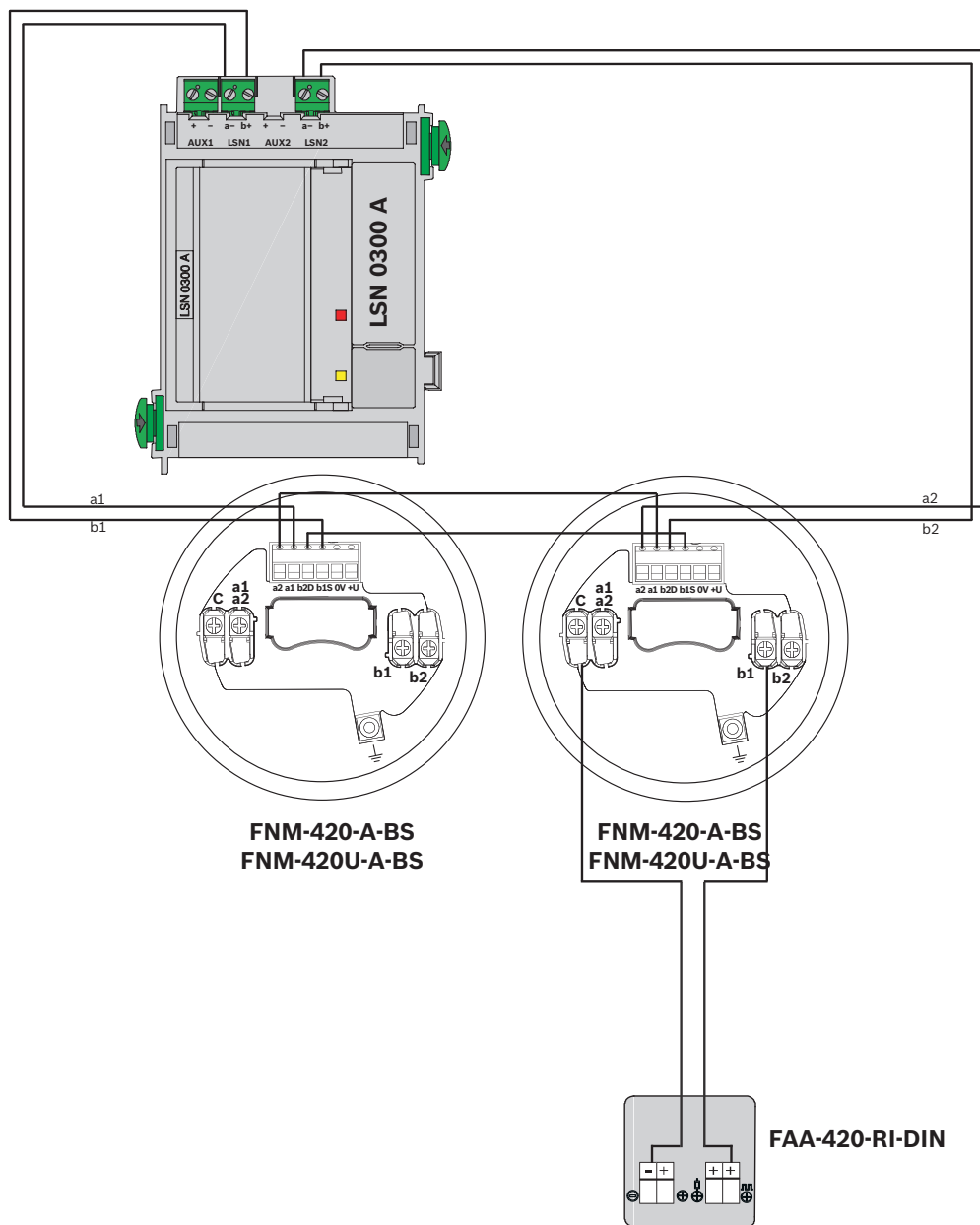
FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



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

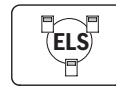


VdS 2489

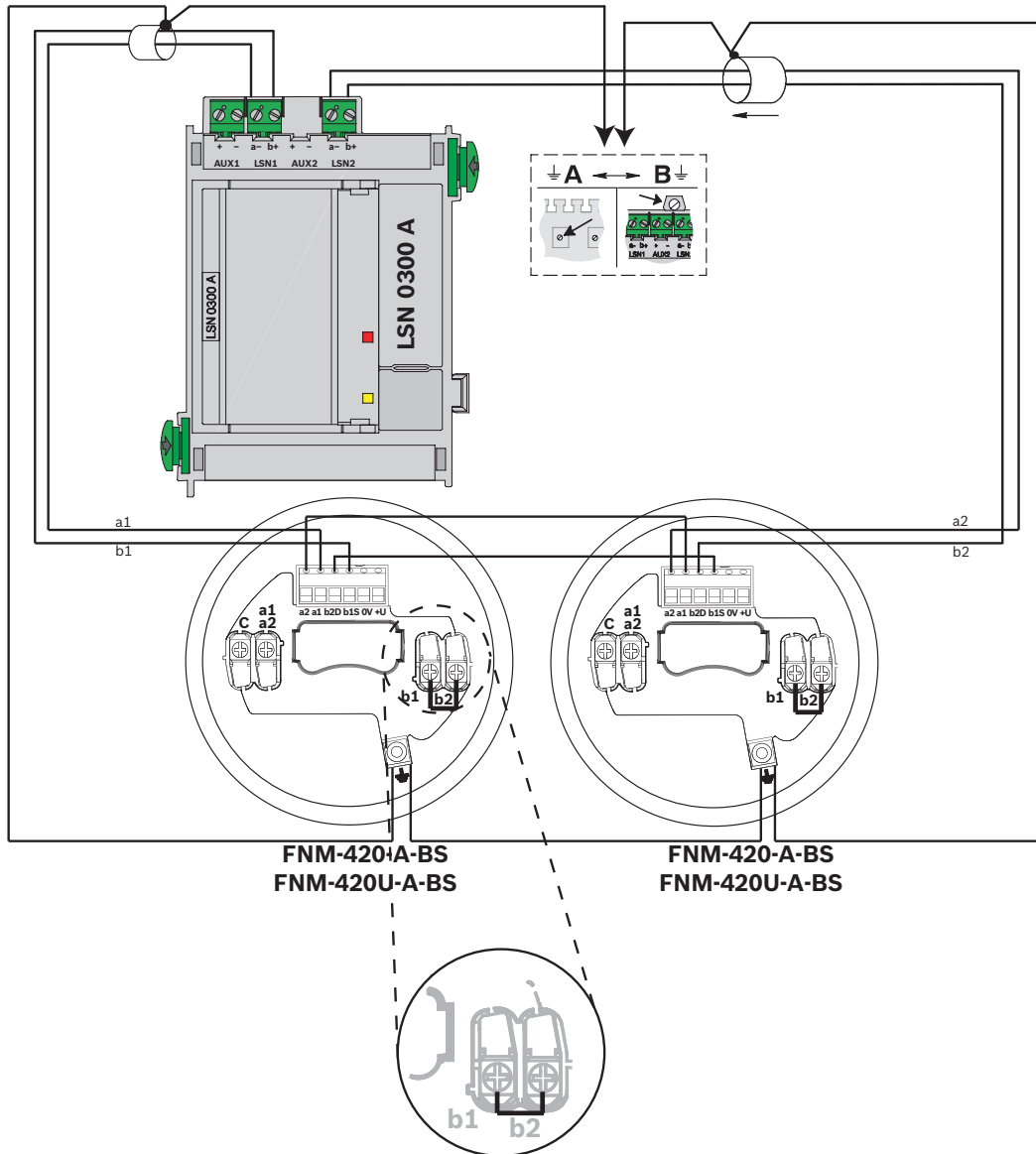


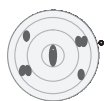


FNM-420-A-BS
FNM-420U-A-BS

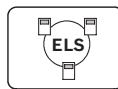


VdS 2489

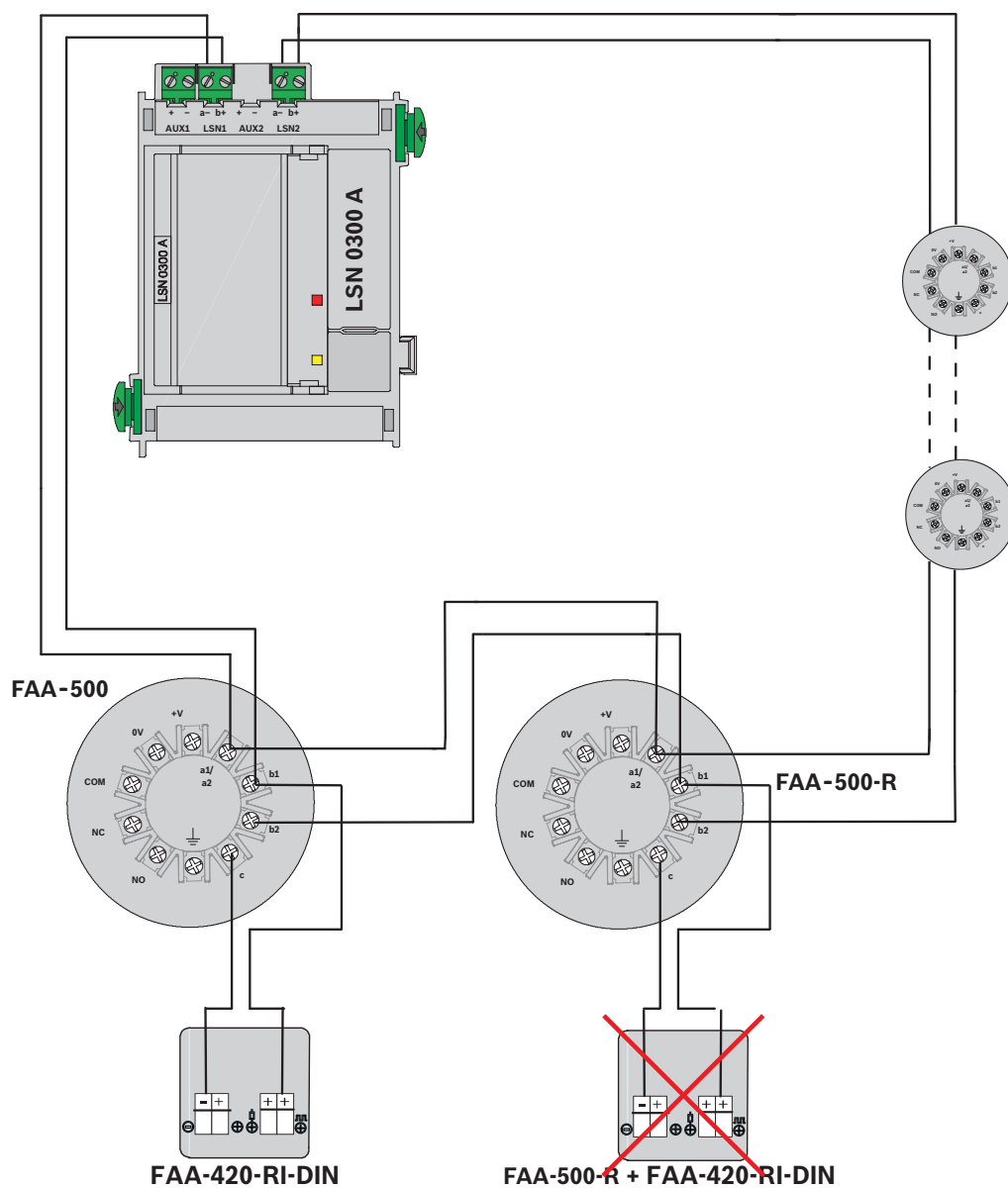




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

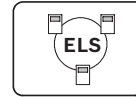


VdS 2489

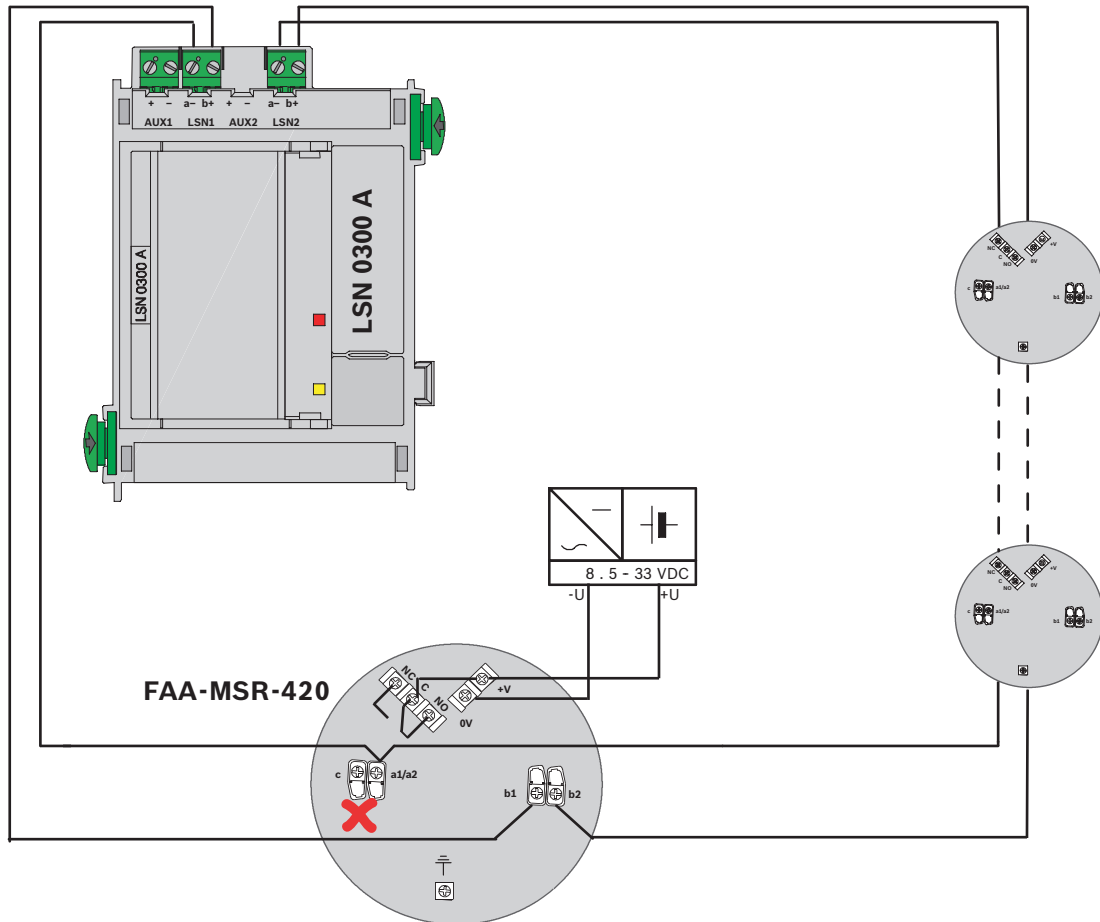




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

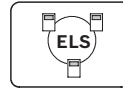


VdS 2489

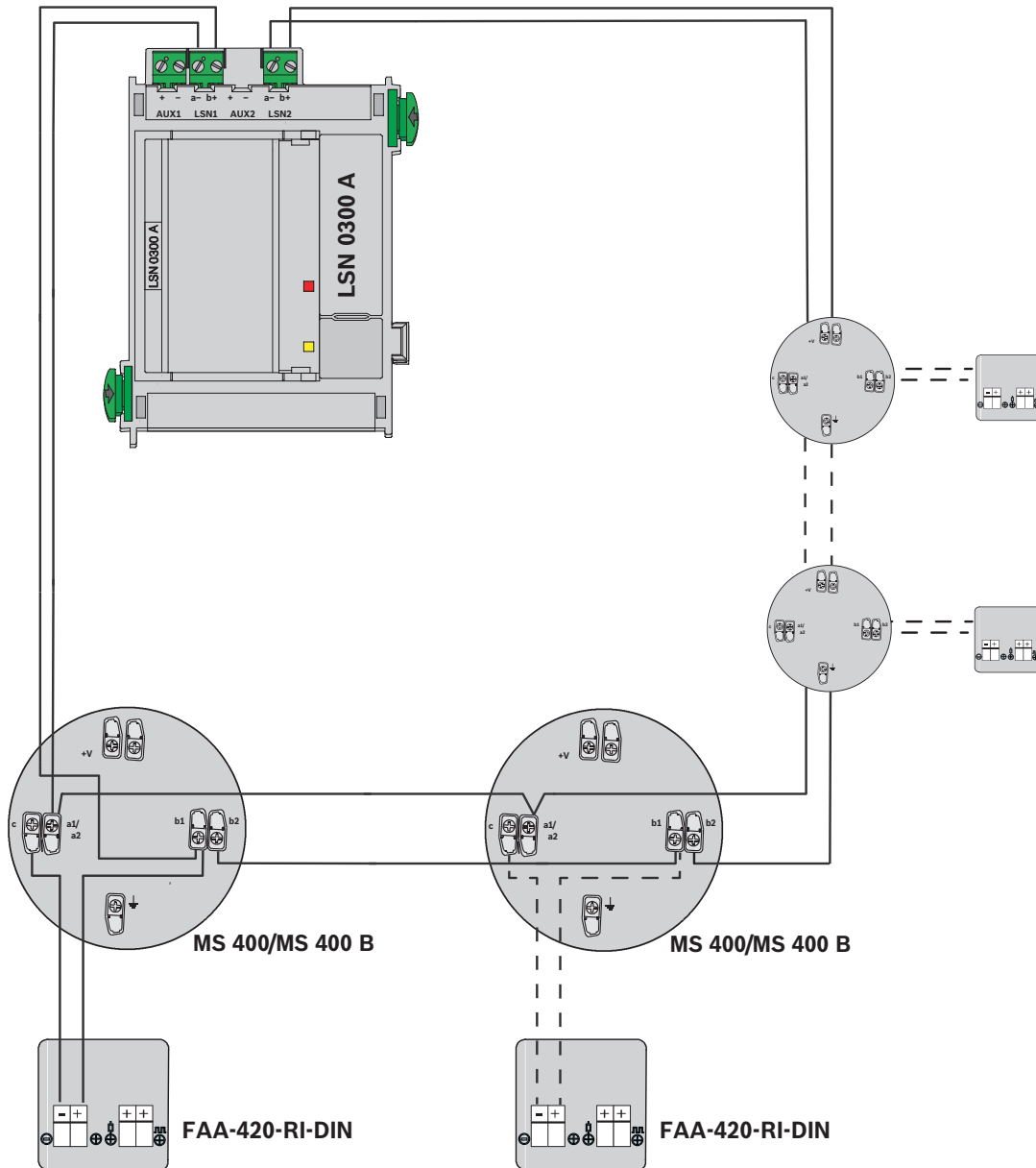


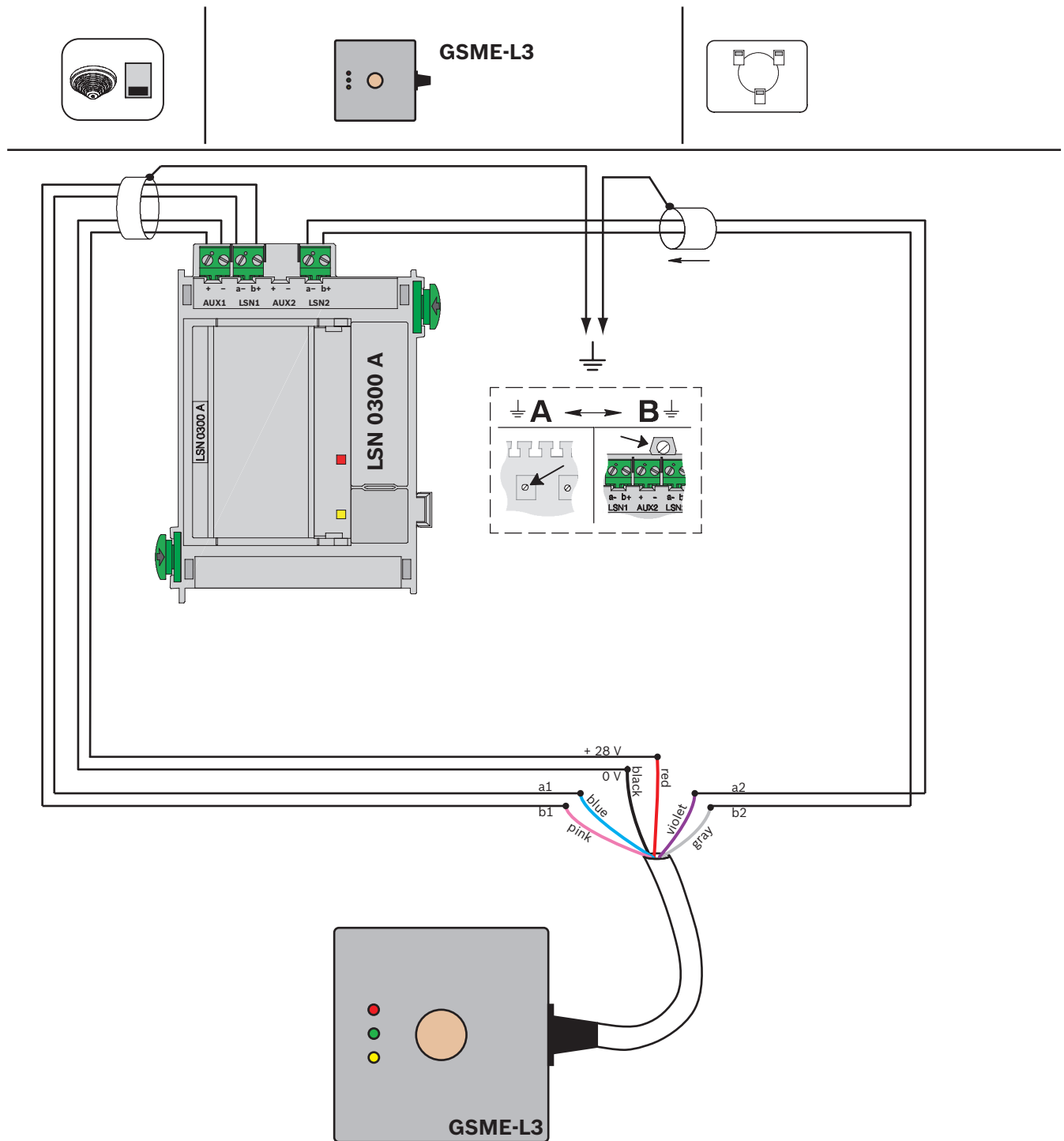


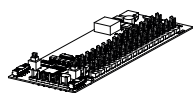
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



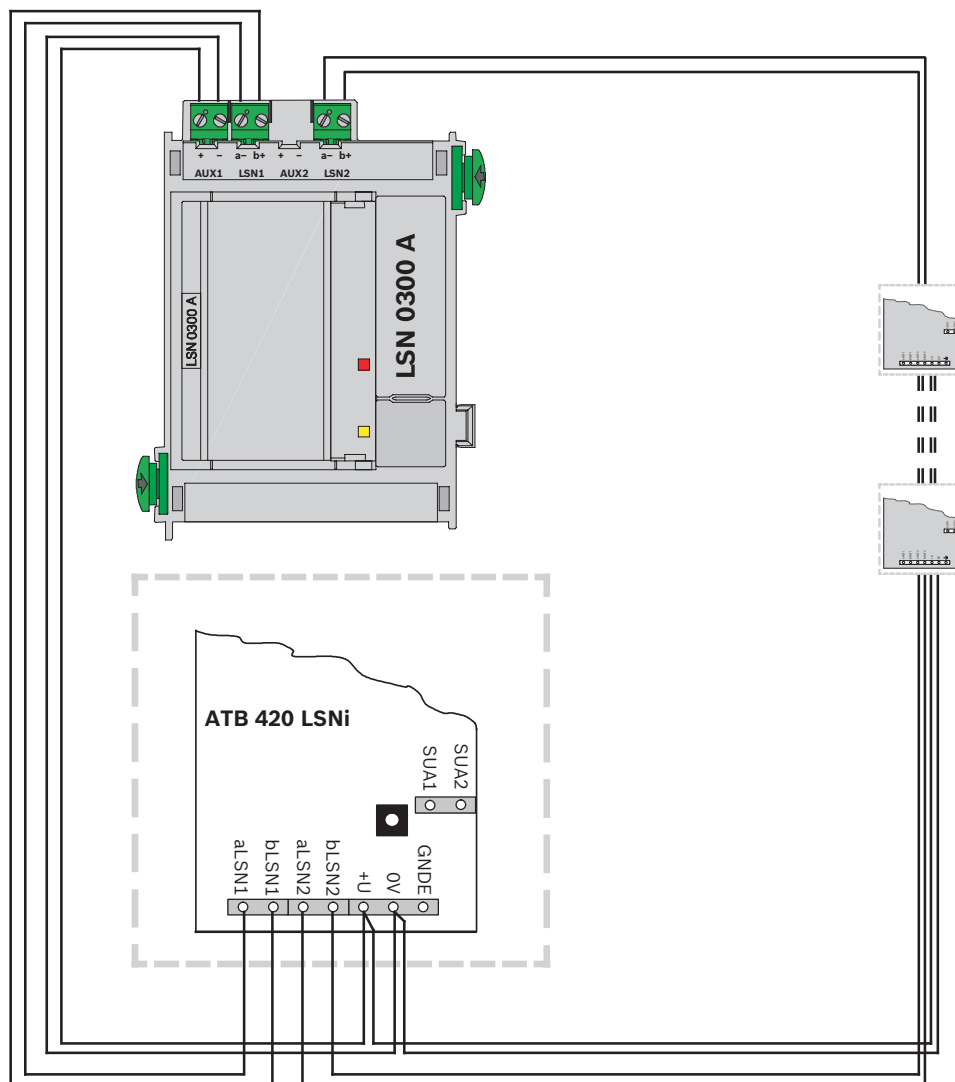
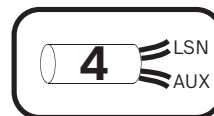
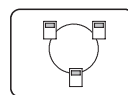
VdS 2489





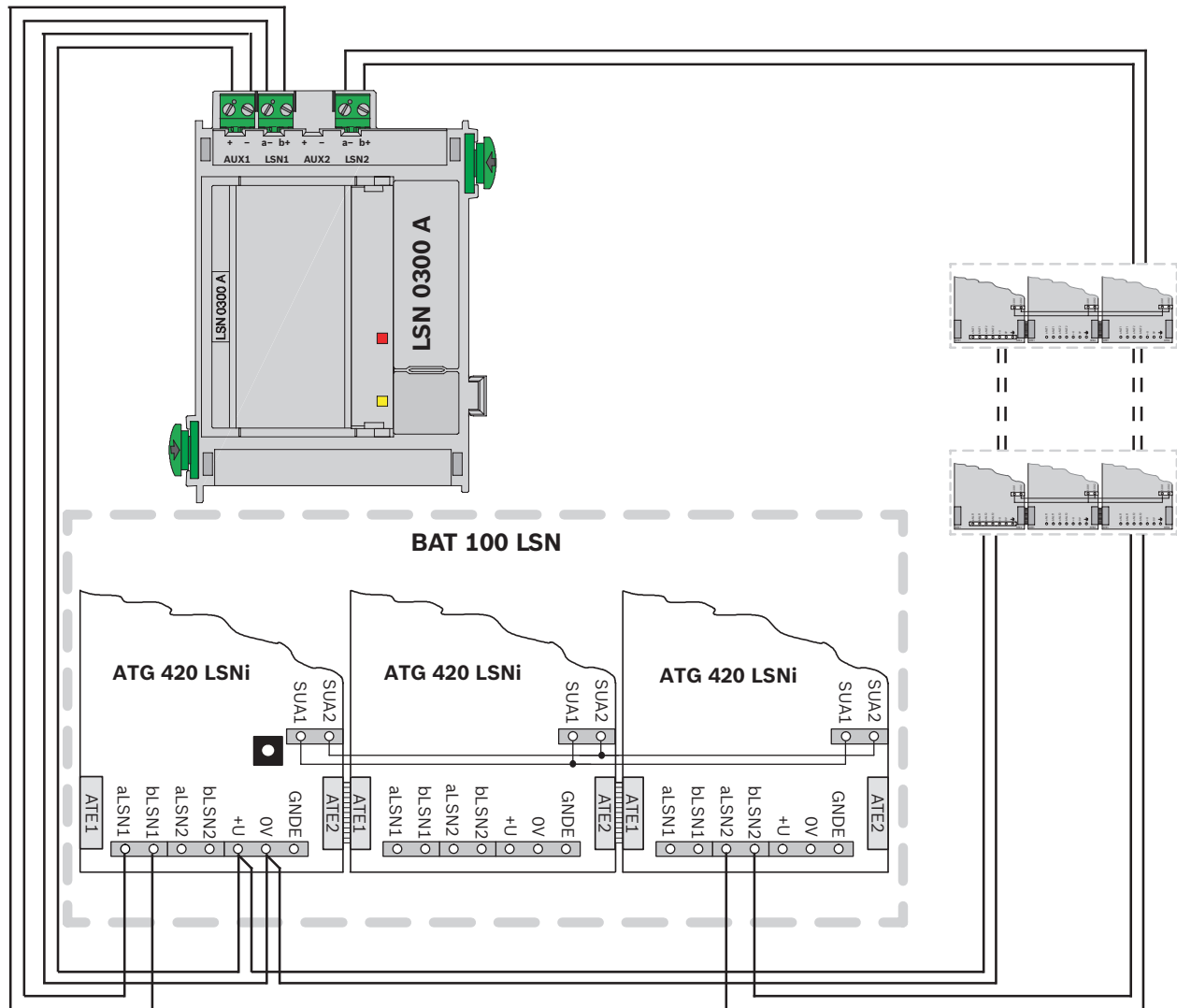
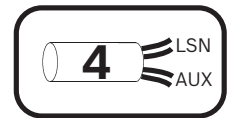
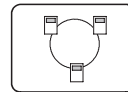


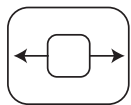
ATB 420 LSNi



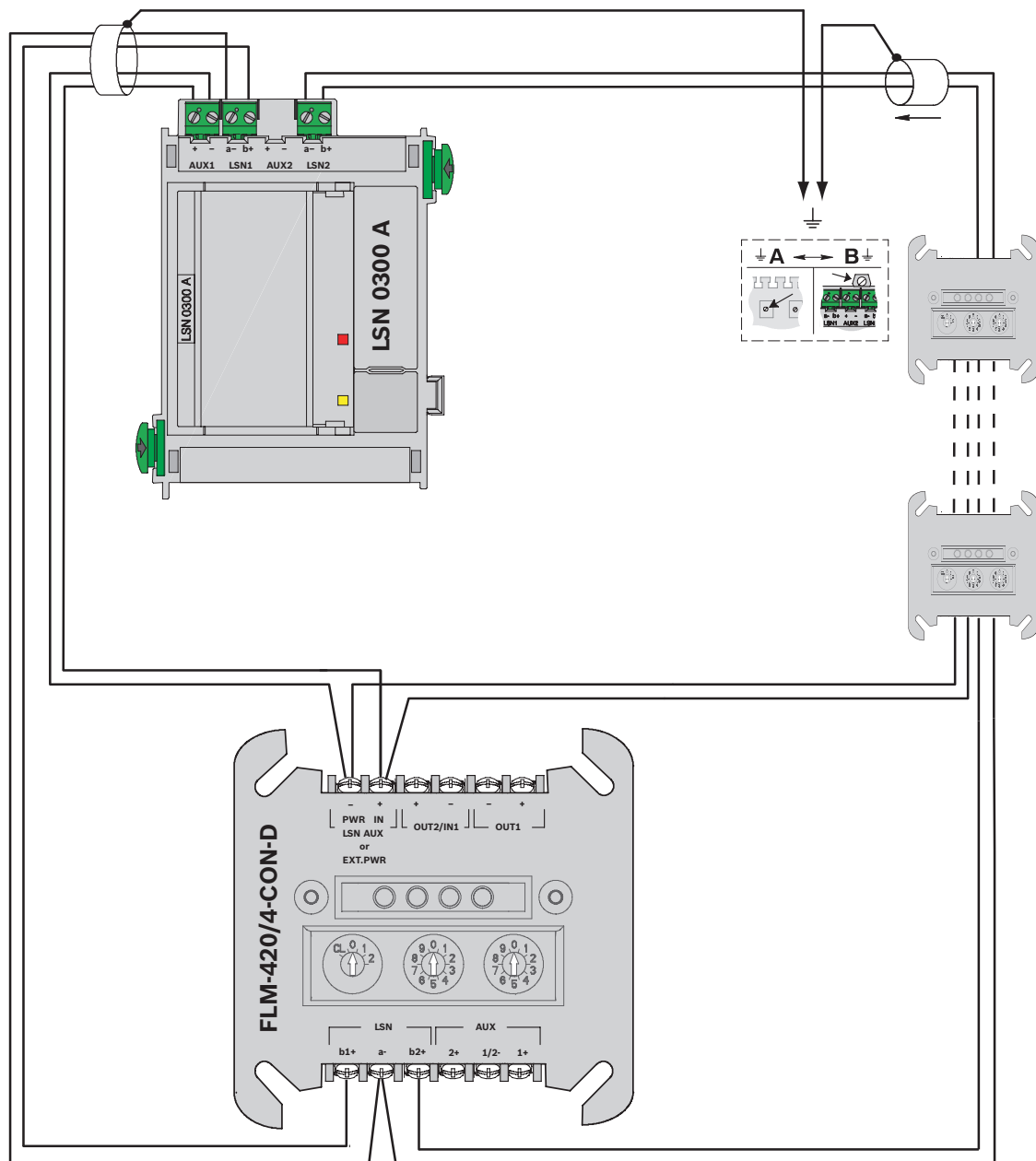
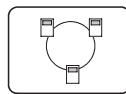


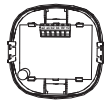
BAT 100 LSN
ATG 420 LSNi



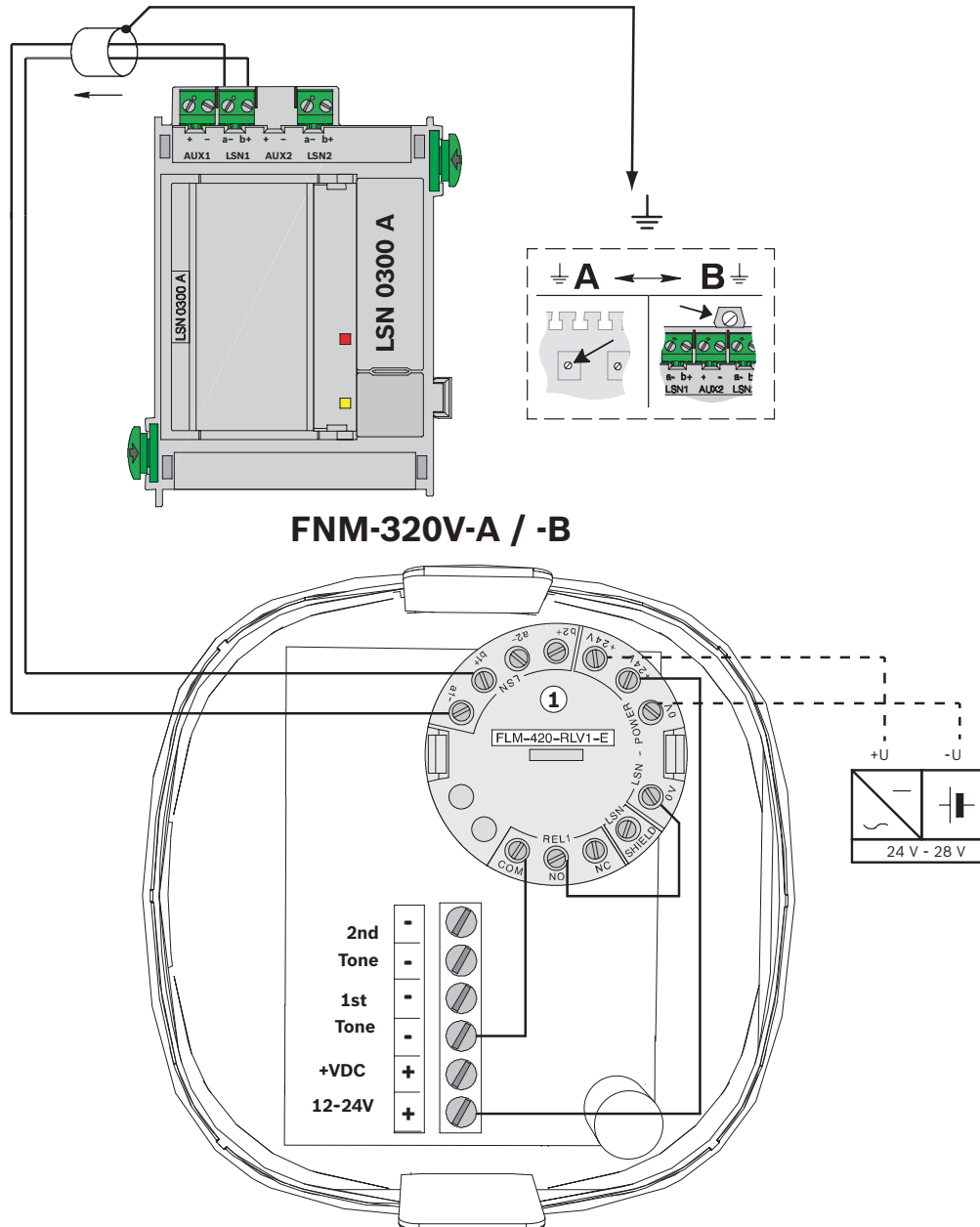
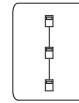


**FLM-420/
4-CON-D**



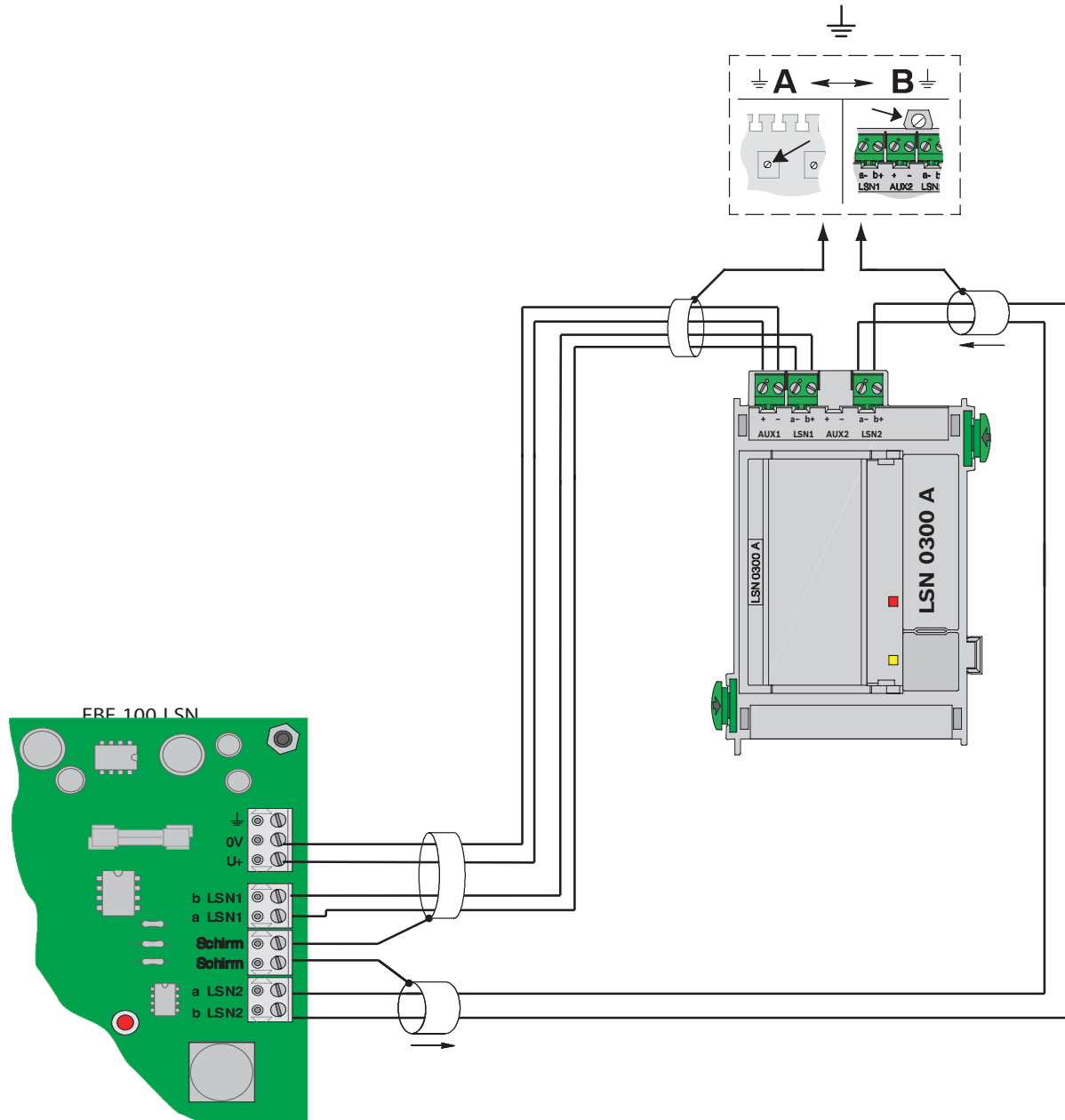
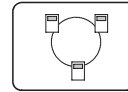


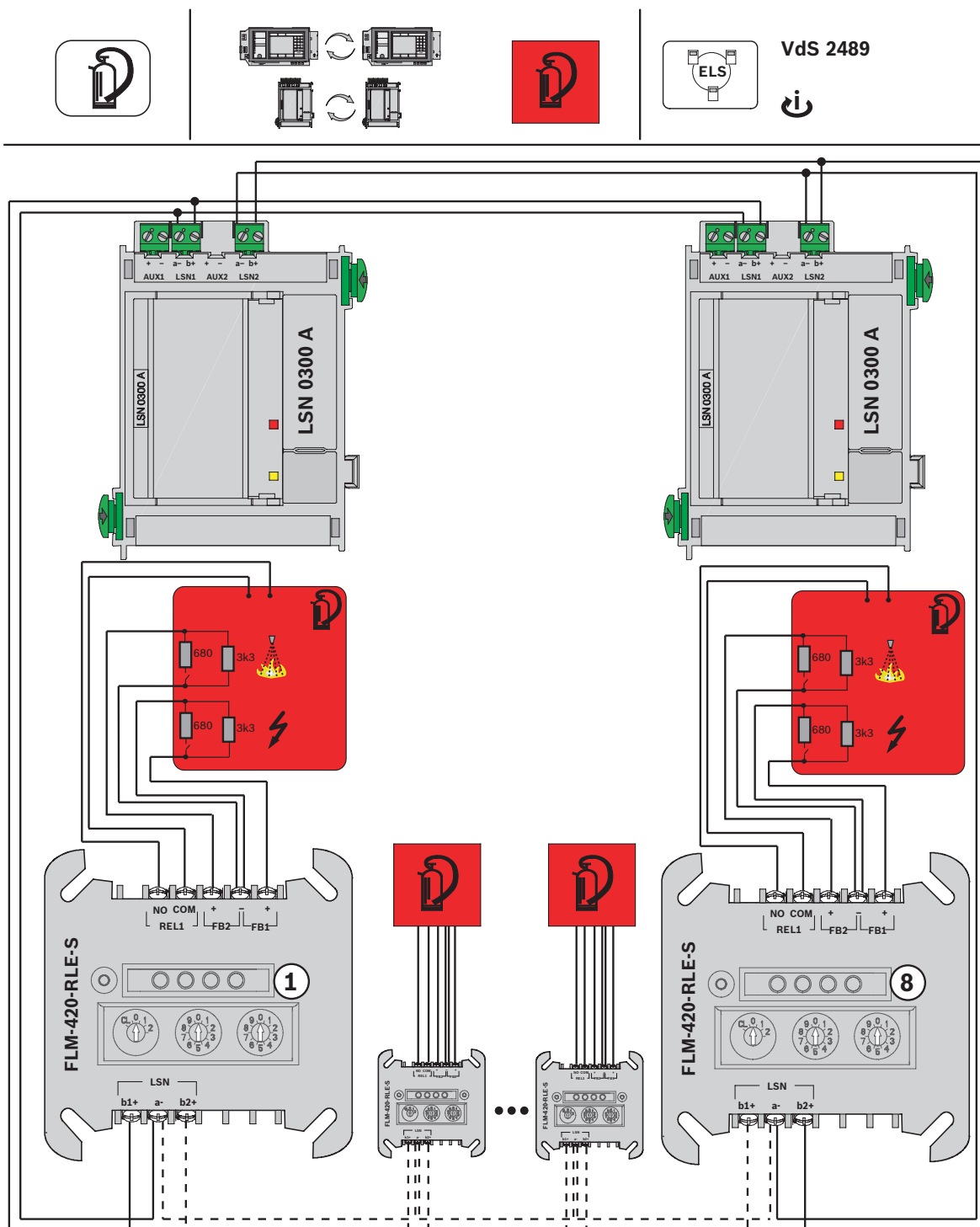
FNM-320V-A / -B

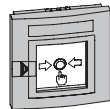
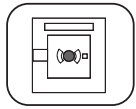




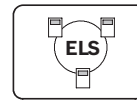
FBF 100 LSN



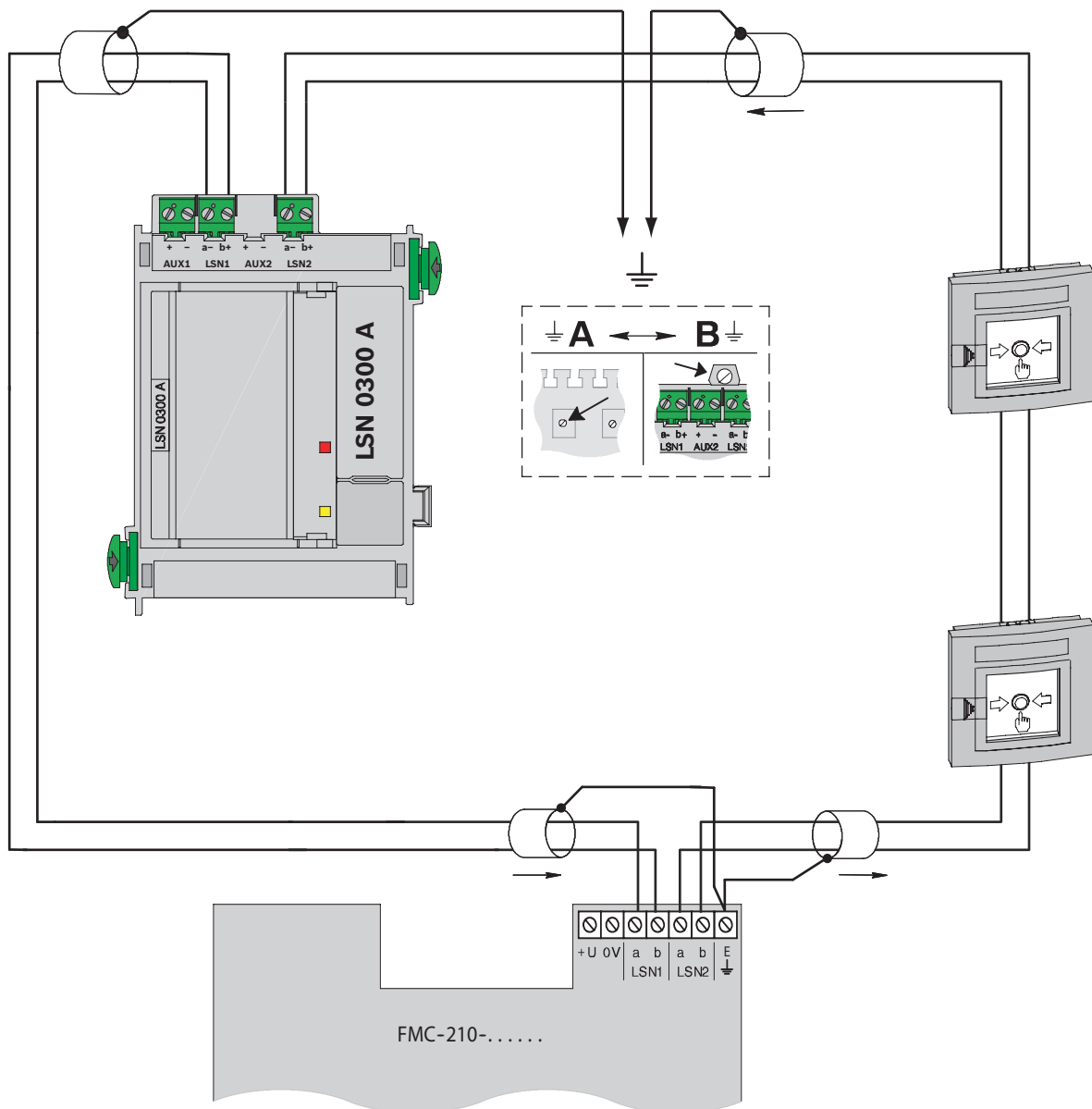


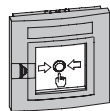
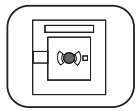
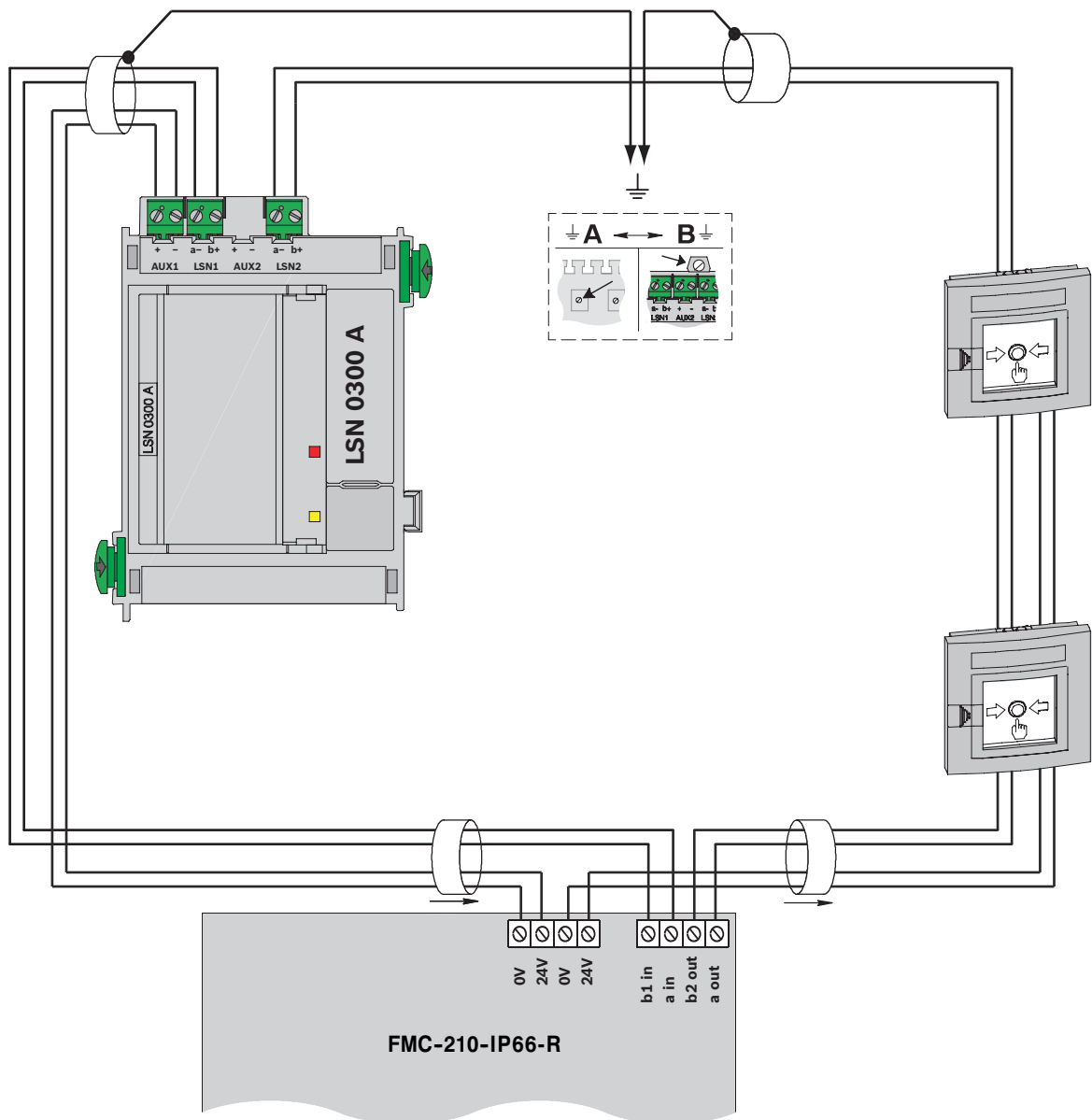
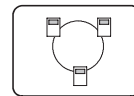


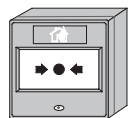
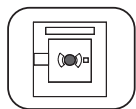
FMC-210-...



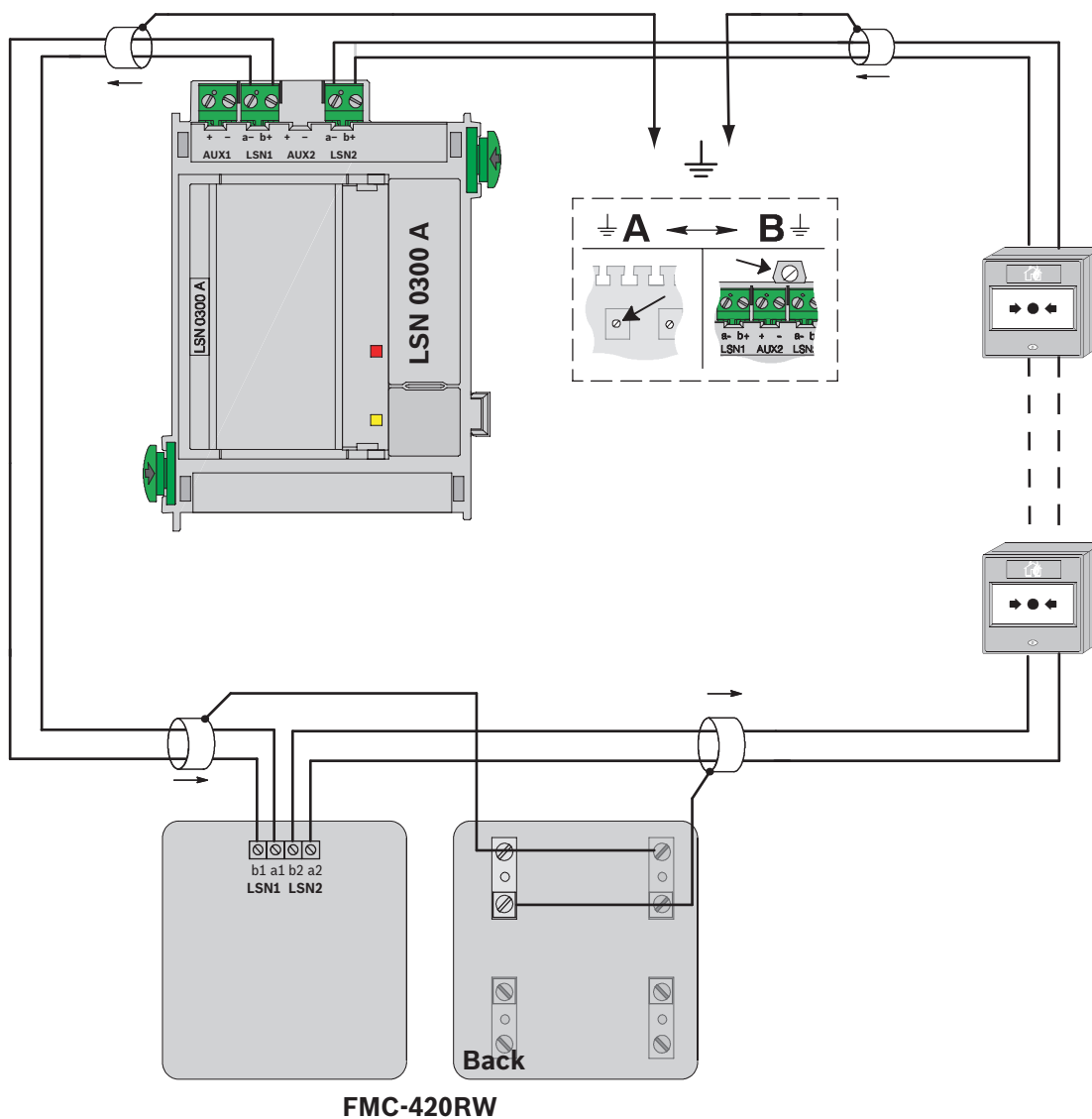
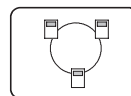
VdS 2489

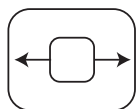
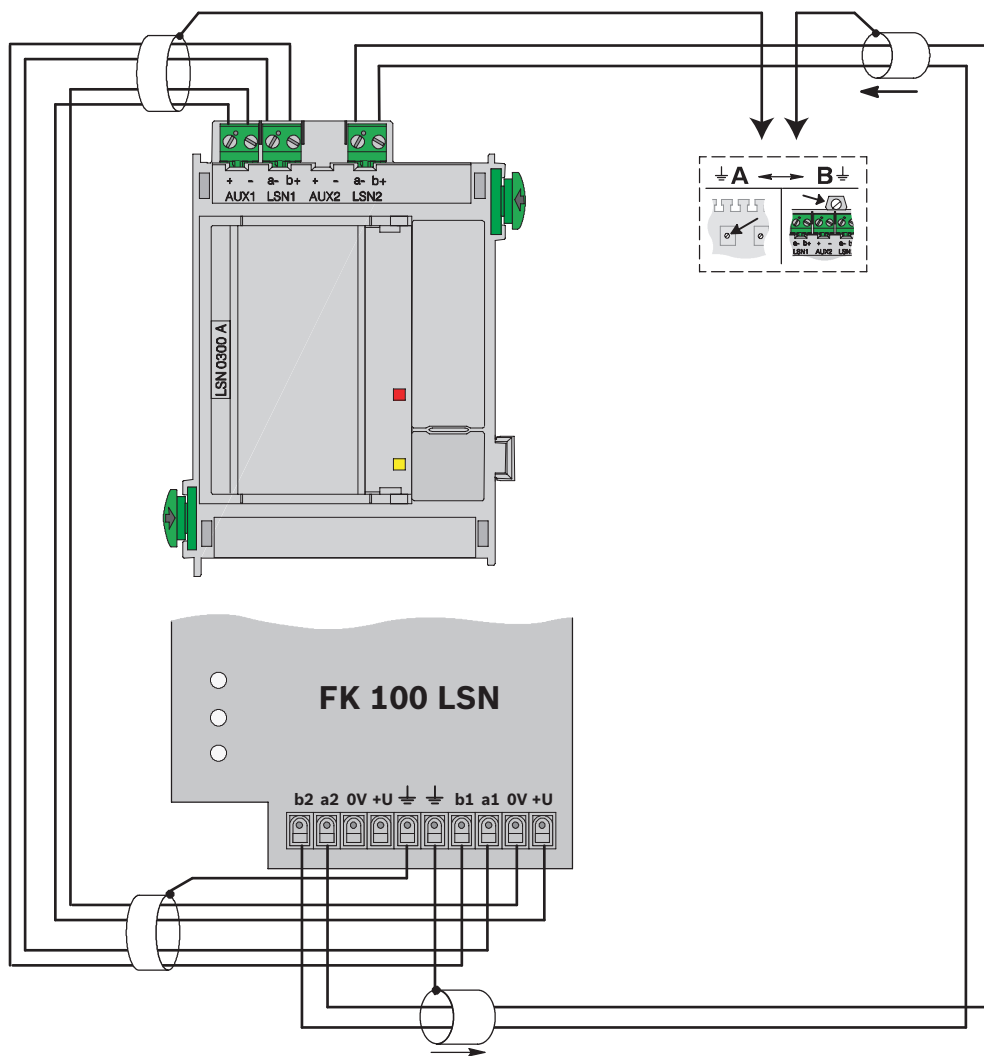
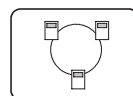


**FMC-210-IP66-R**

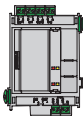
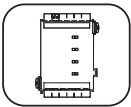


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD

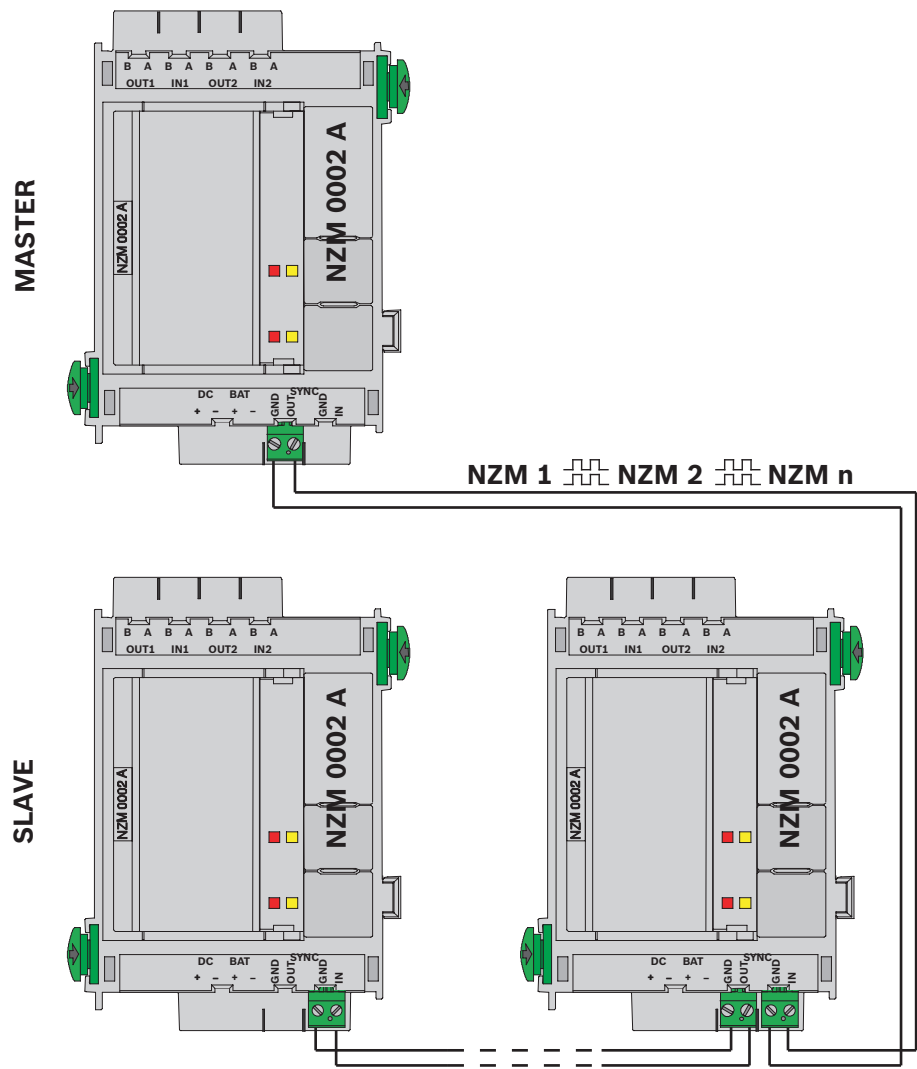


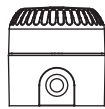
**FK 100 LSN**

3.3.5 NZM 0002 A

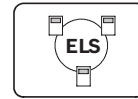


NZM 0002 A

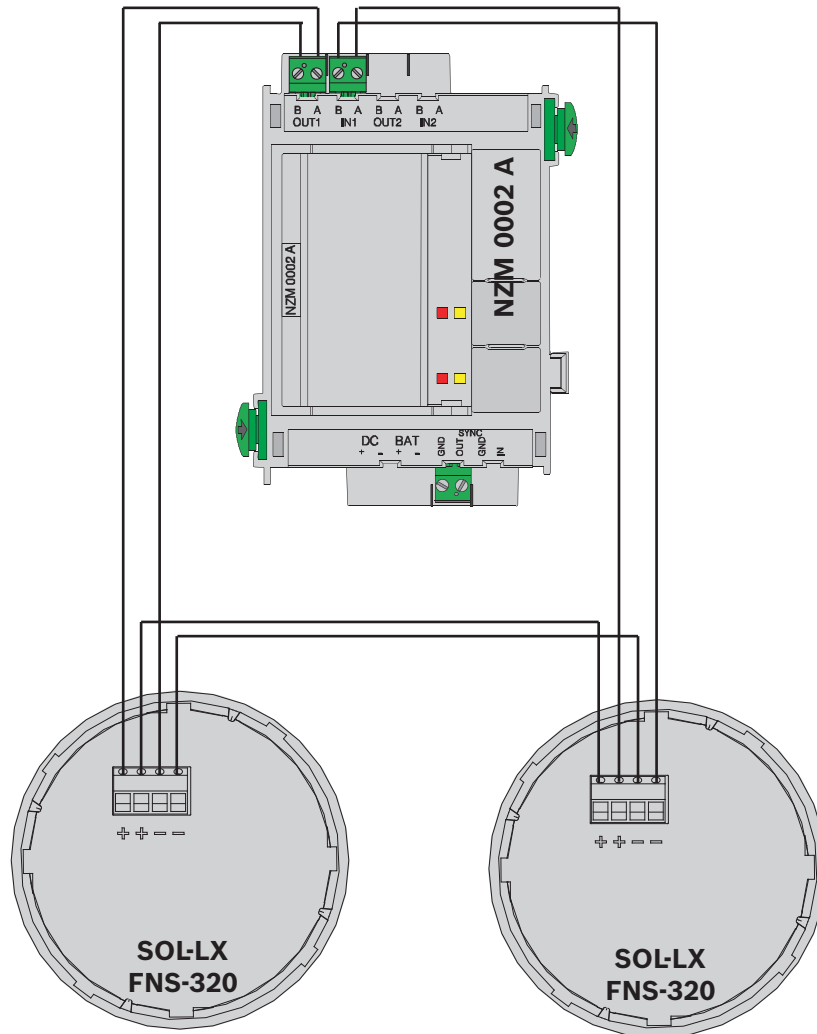




**SOL-LX
FNS-320**

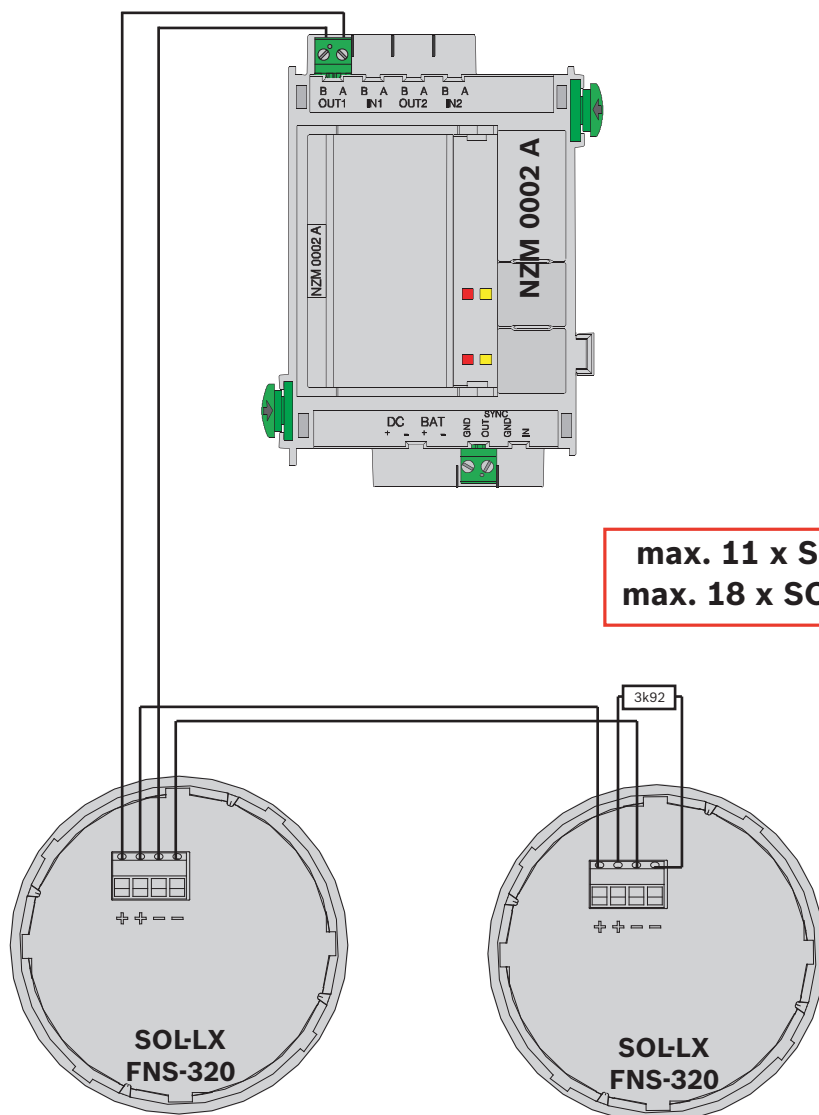
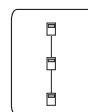


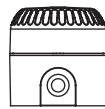
VdS 2489



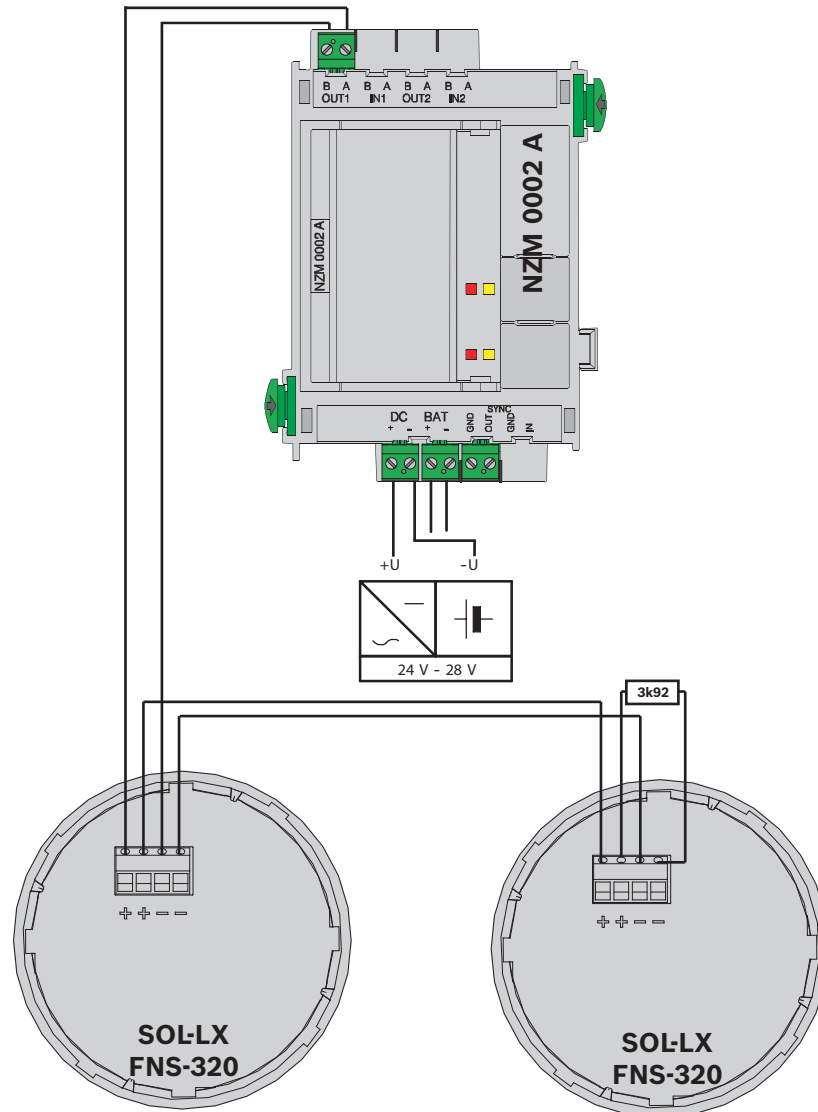
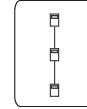


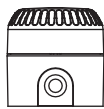
**SOL-LX
FNS-320**



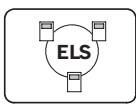


**SOL-LX
FNS-320**

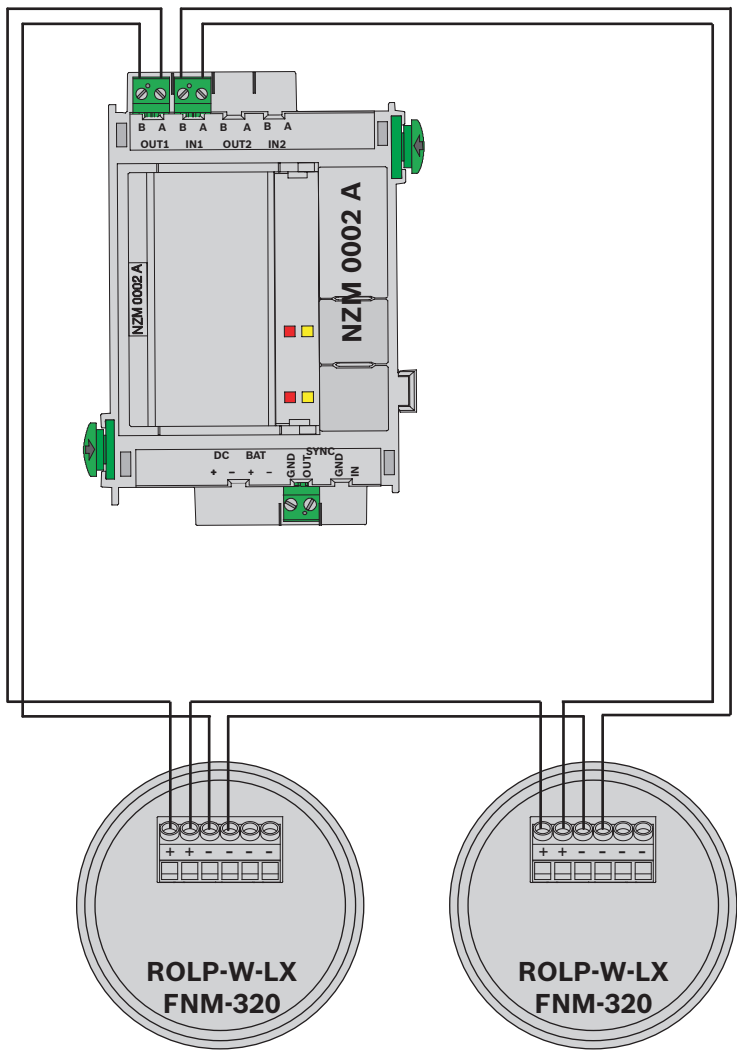


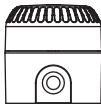
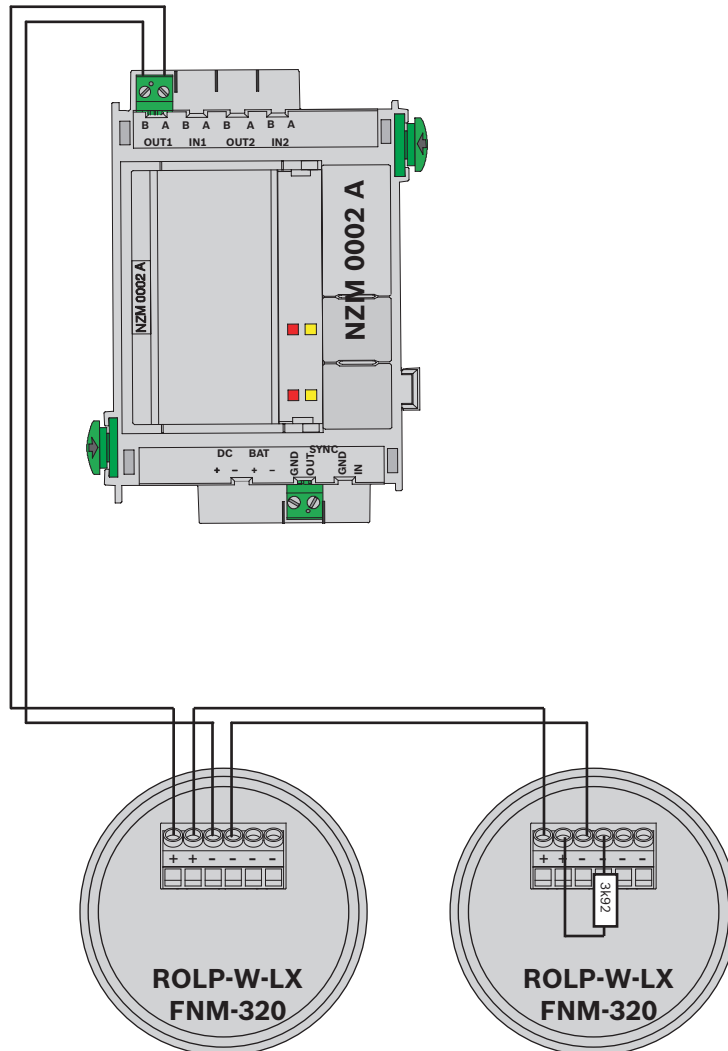
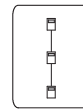


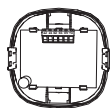
**ROLP-W-LX
FNM-320**



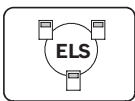
VdS 2489



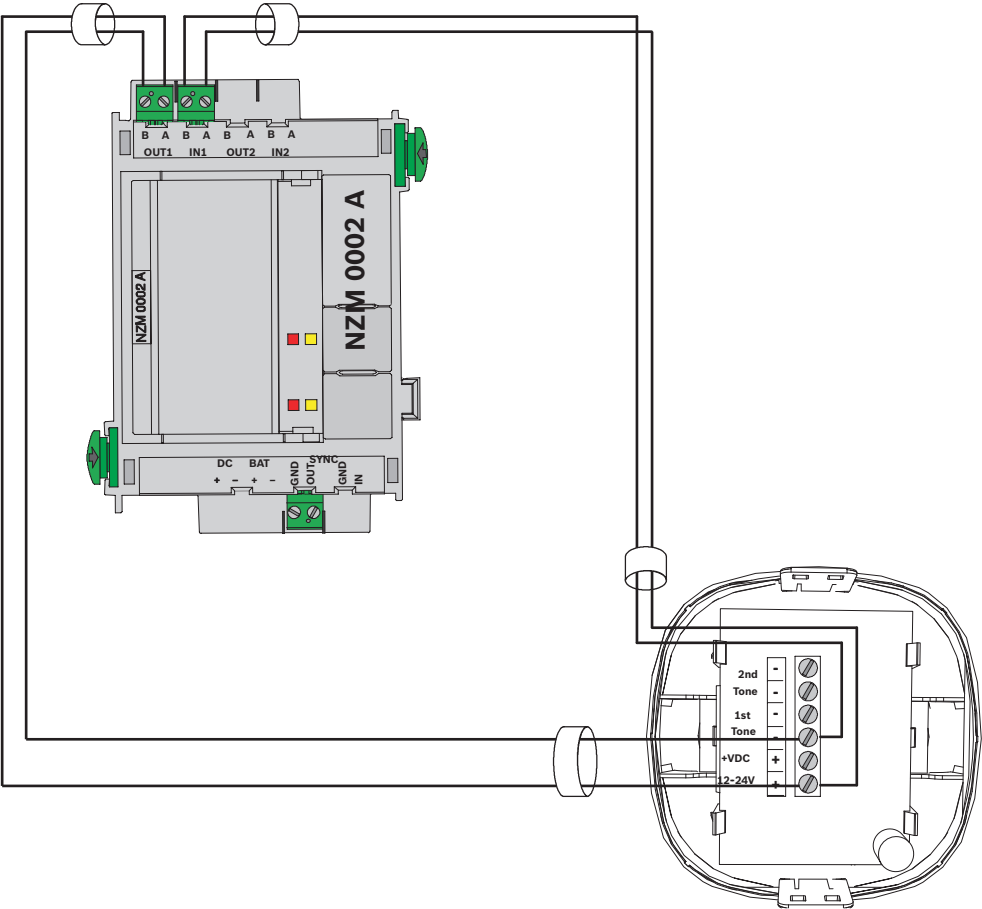
**ROLP-W-LX
FNM-320**

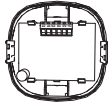
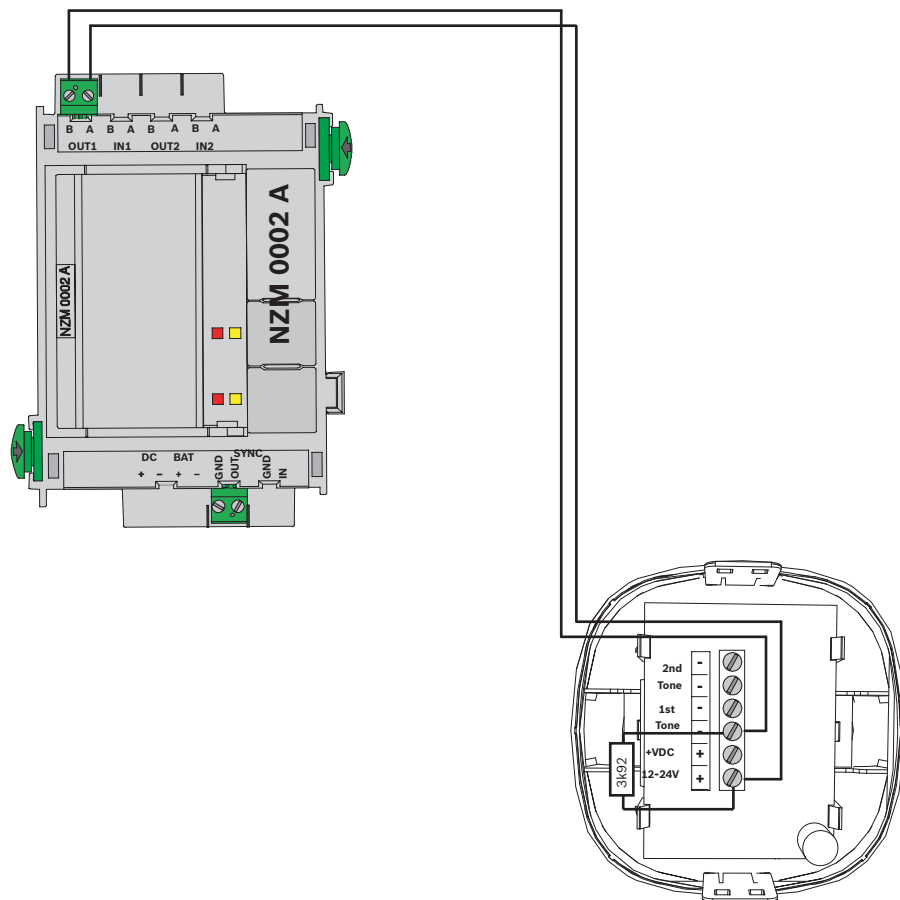
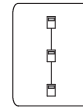


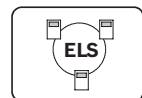
FNM-320V-A / -B



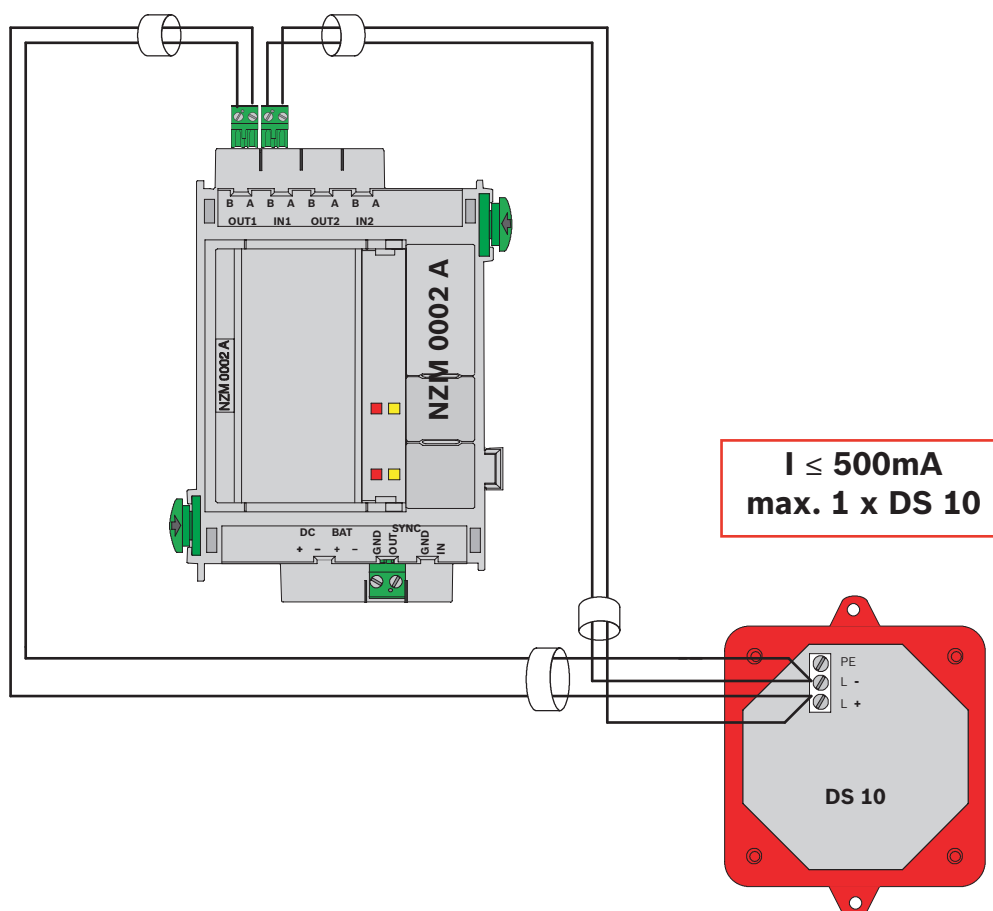
VdS 2489

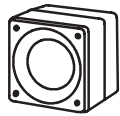


**FNM-320V-A / -B**

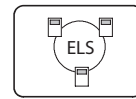


VdS 2489

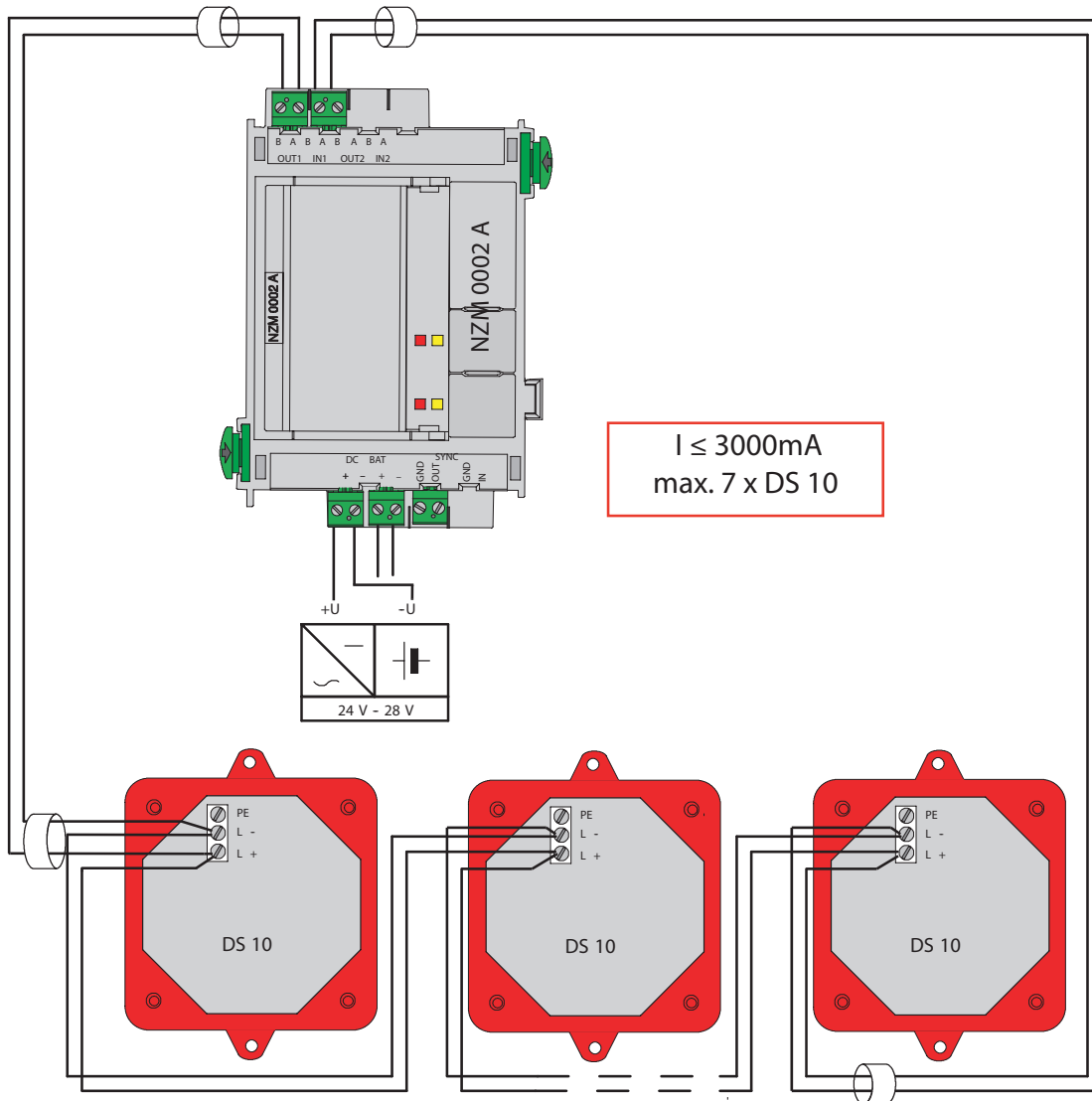


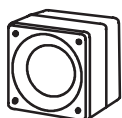


DS 10

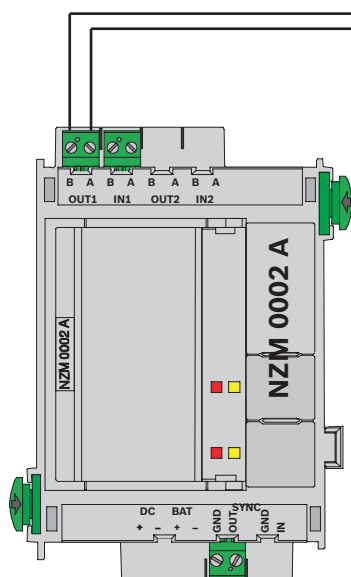
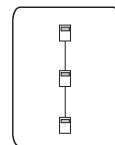


VdS 2489

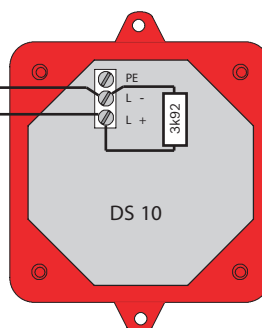


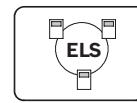
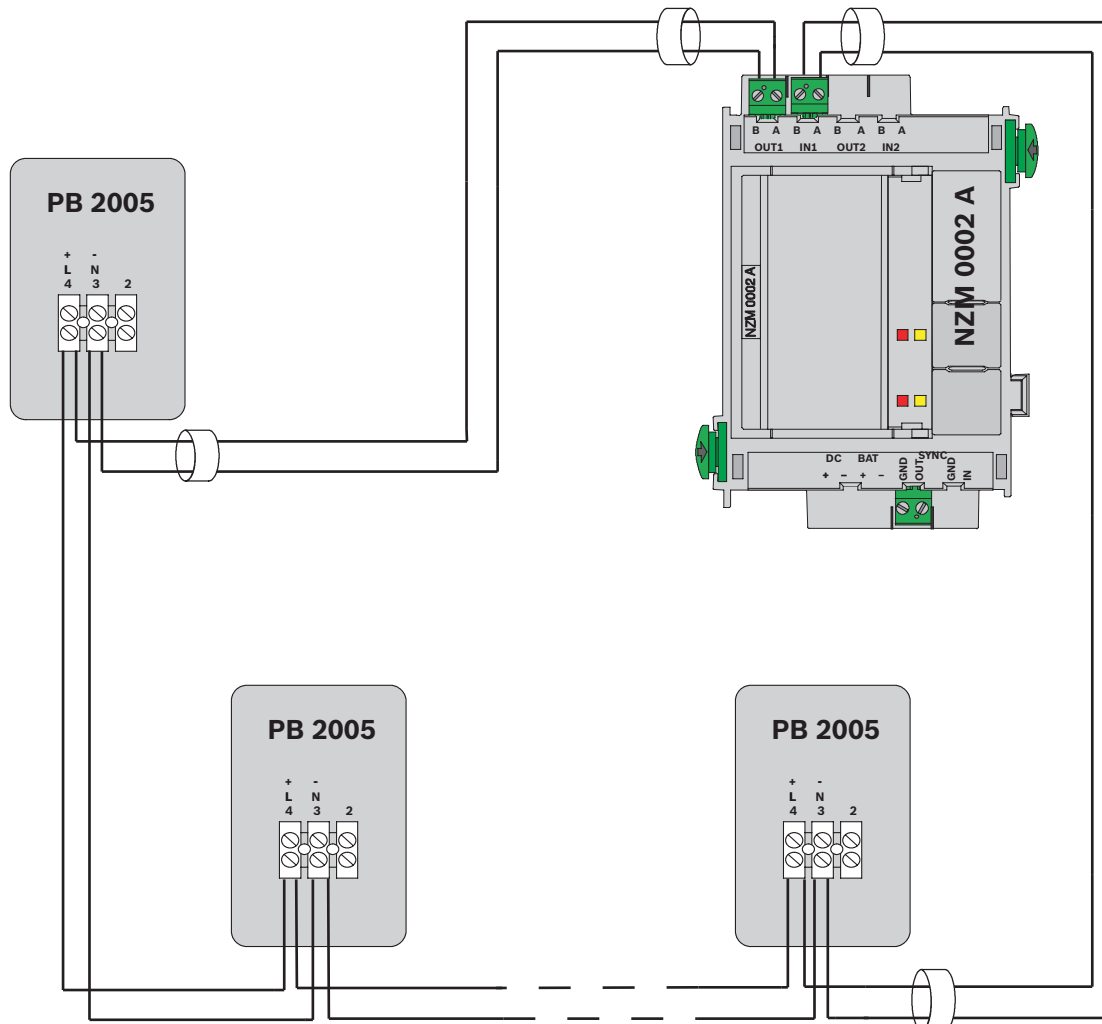


DS 10



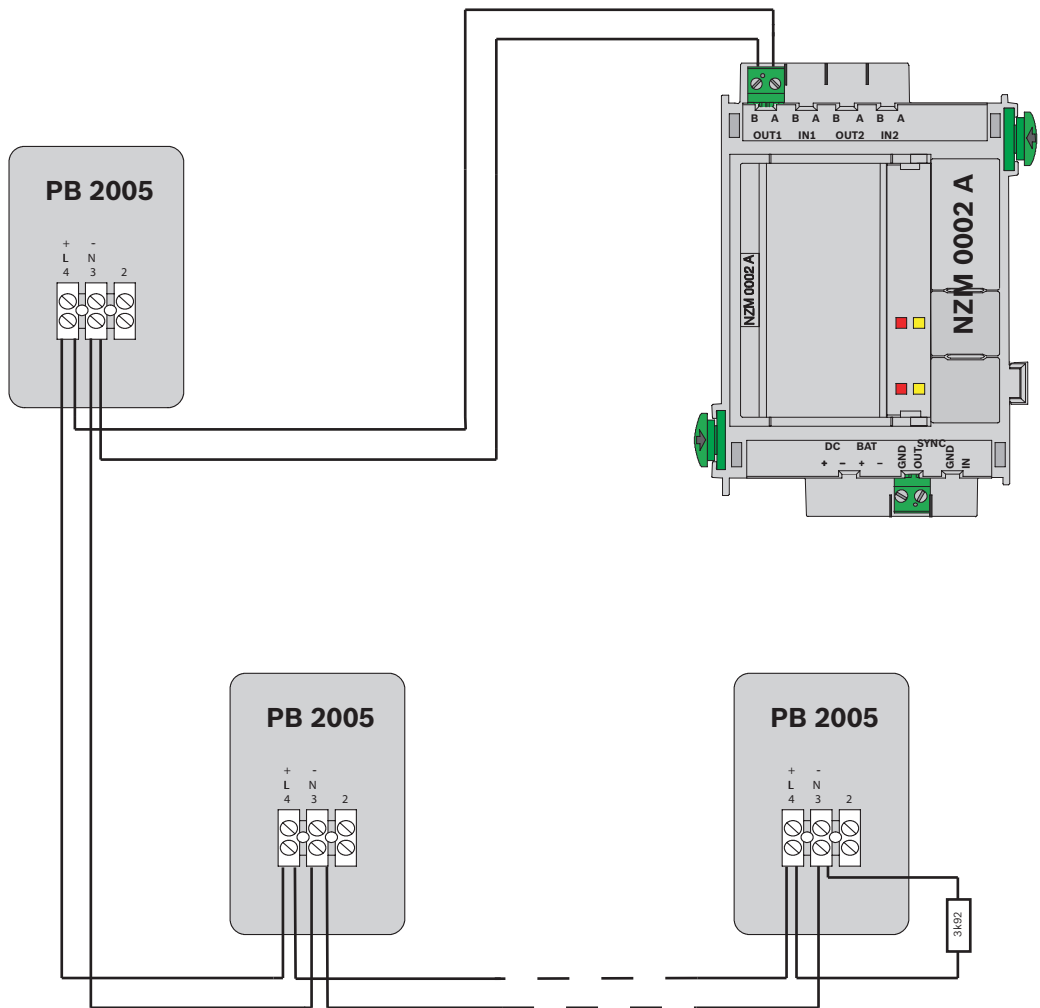
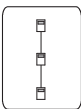
$I \leq 500\text{mA}$
max. 1 x DS 10

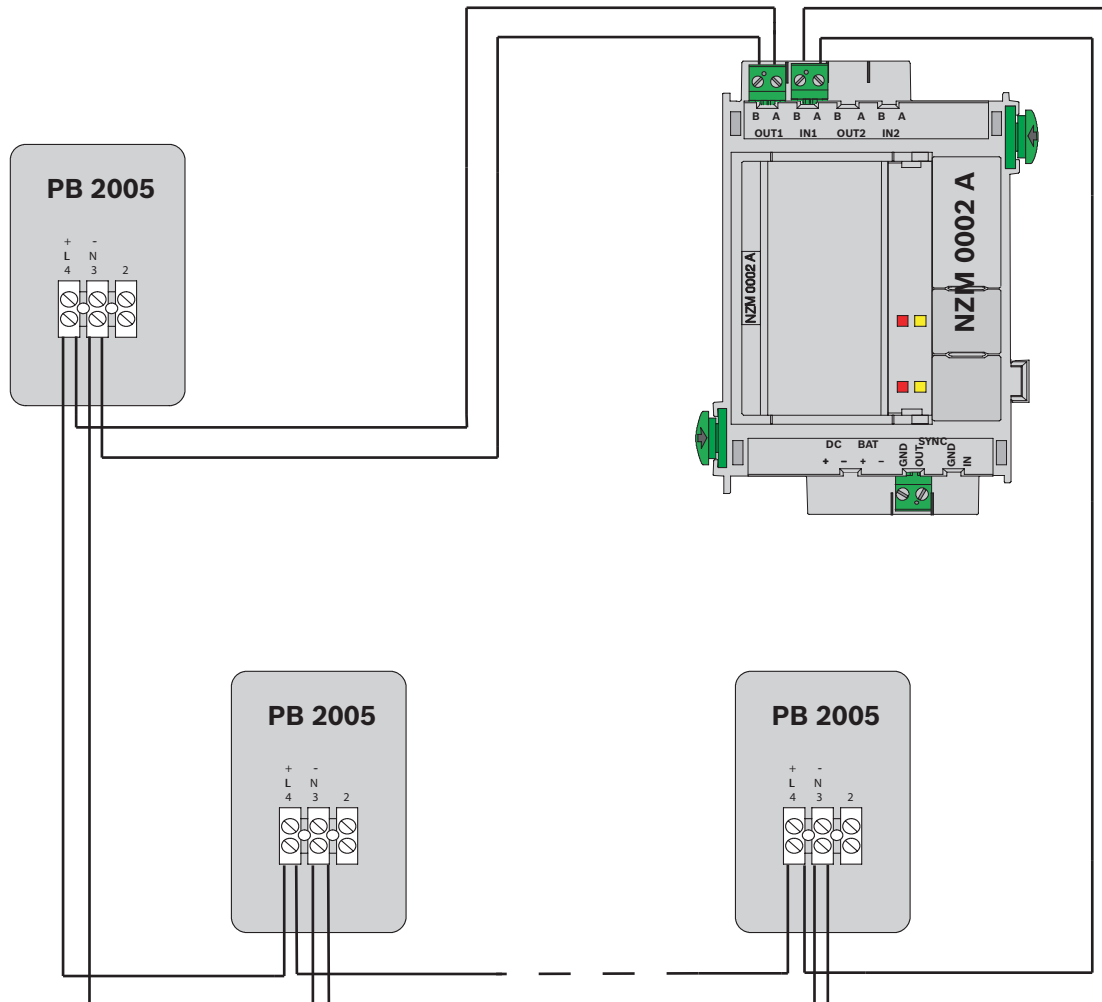
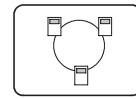


**PB 2005****VdS 2489**



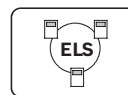
PB 2005



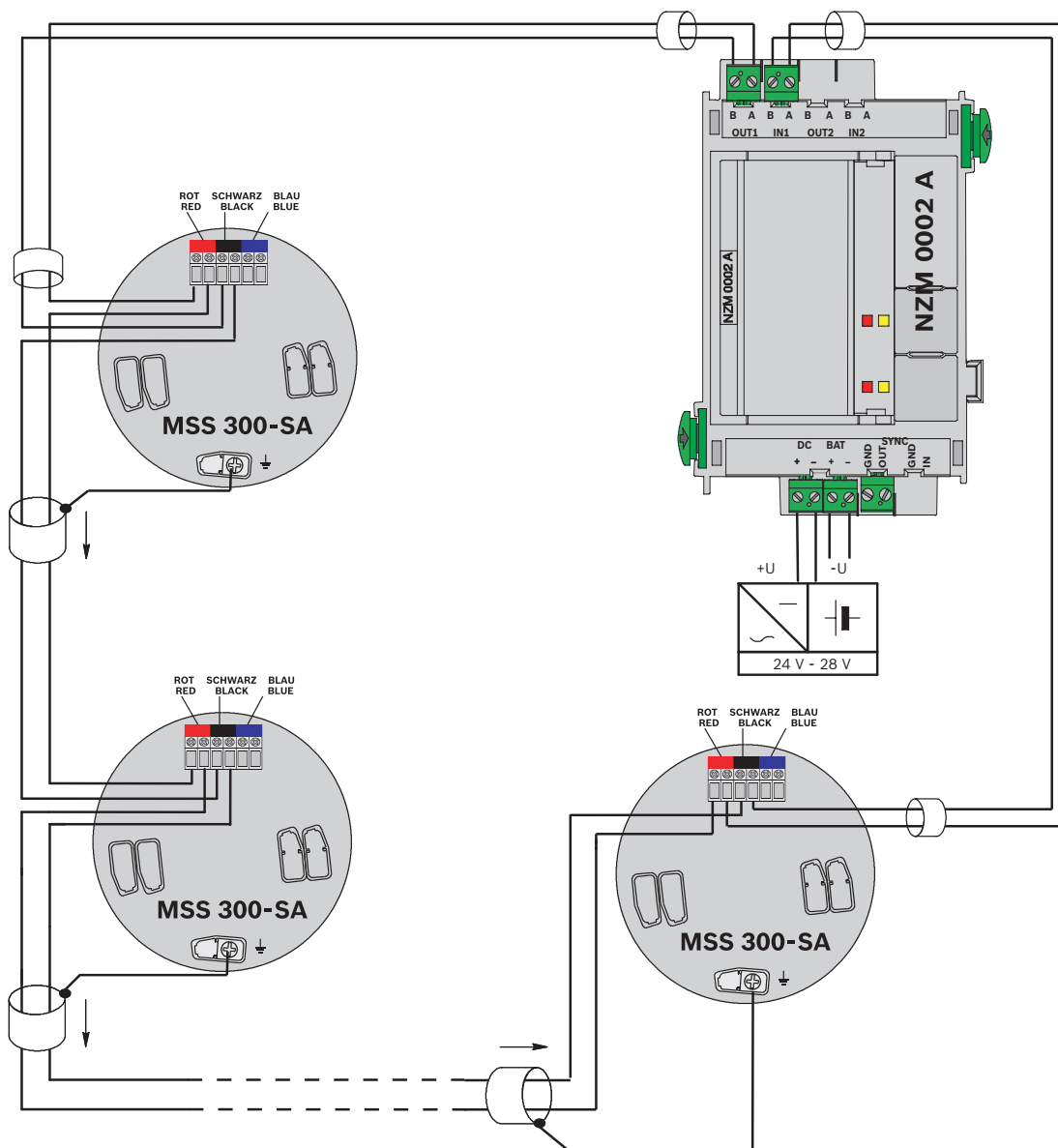
**PB 2005**



MSS 300-SA

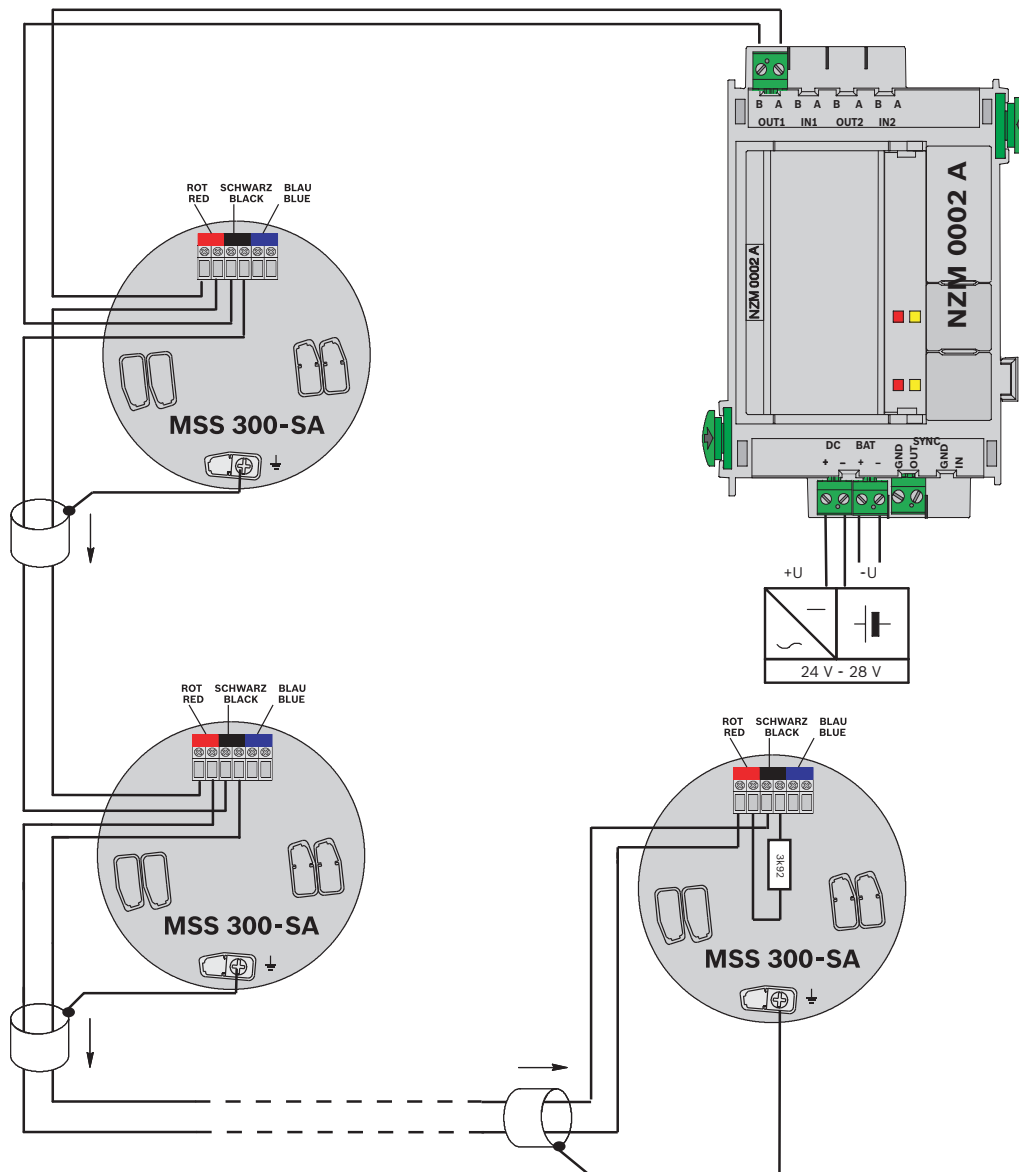
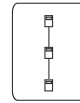


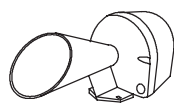
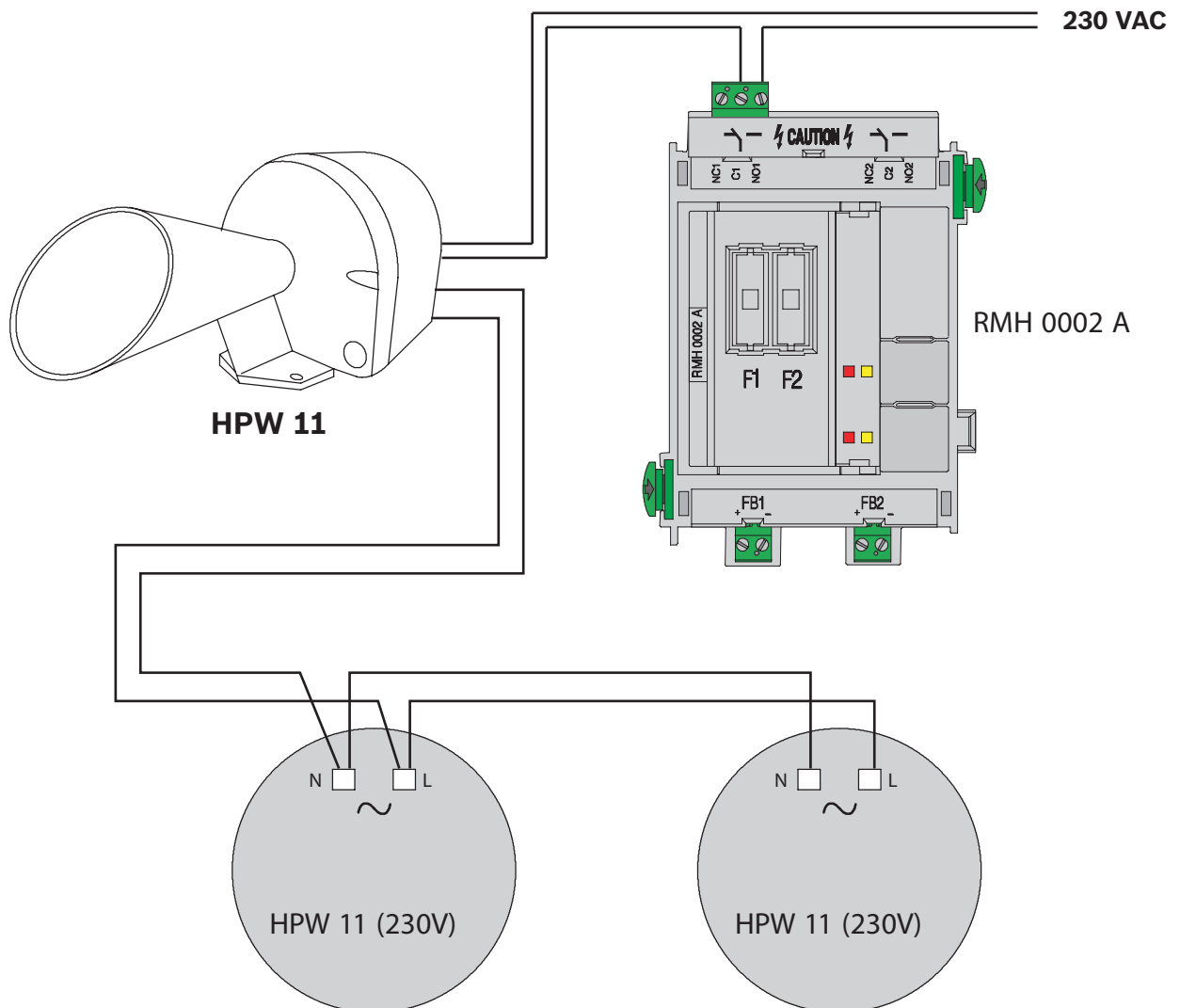
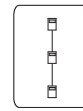
VdS 2489

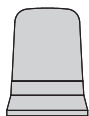




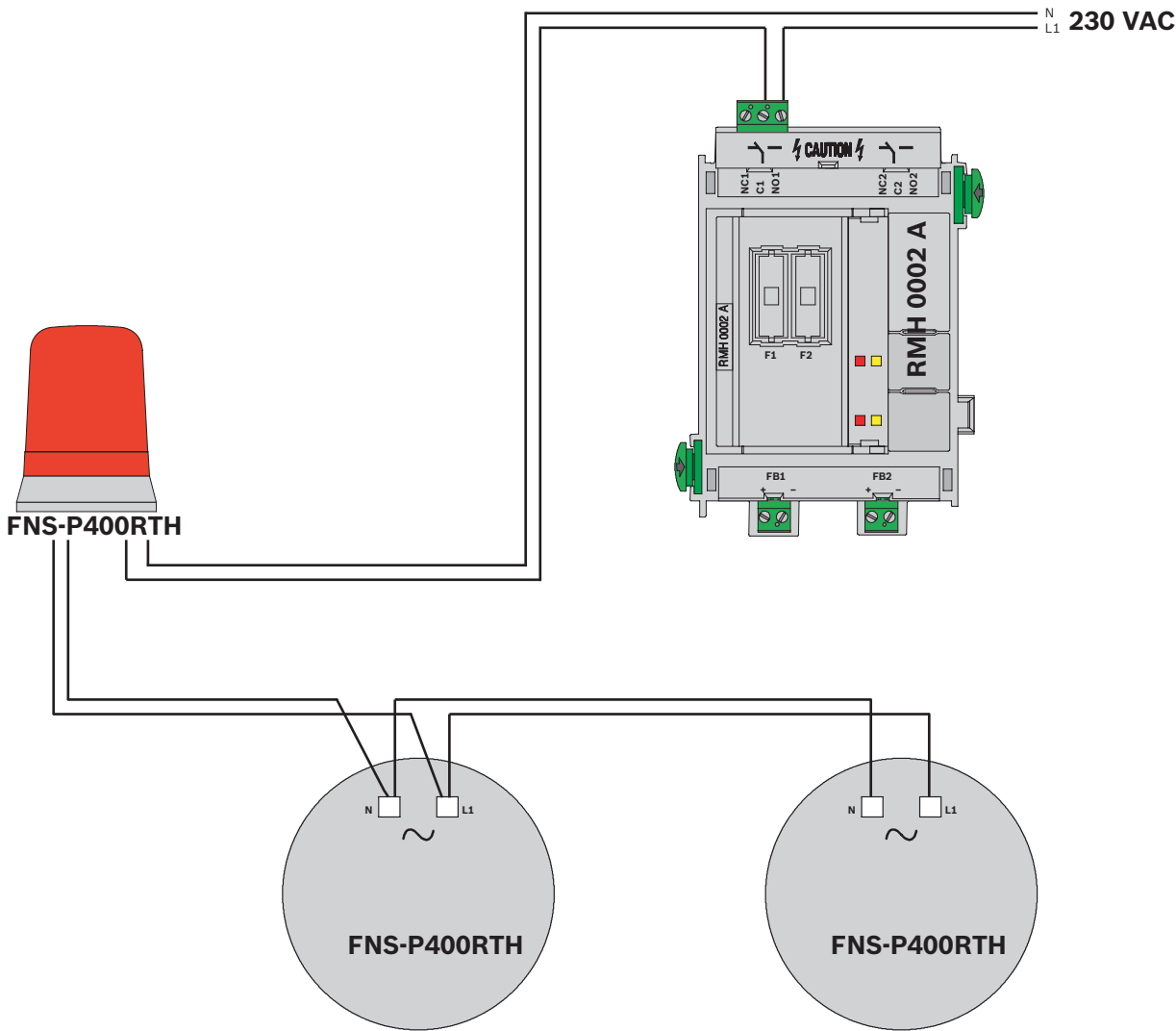
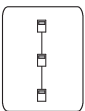
MSS 300-SA



**HPW 11**

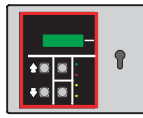


FNS-P400RTH

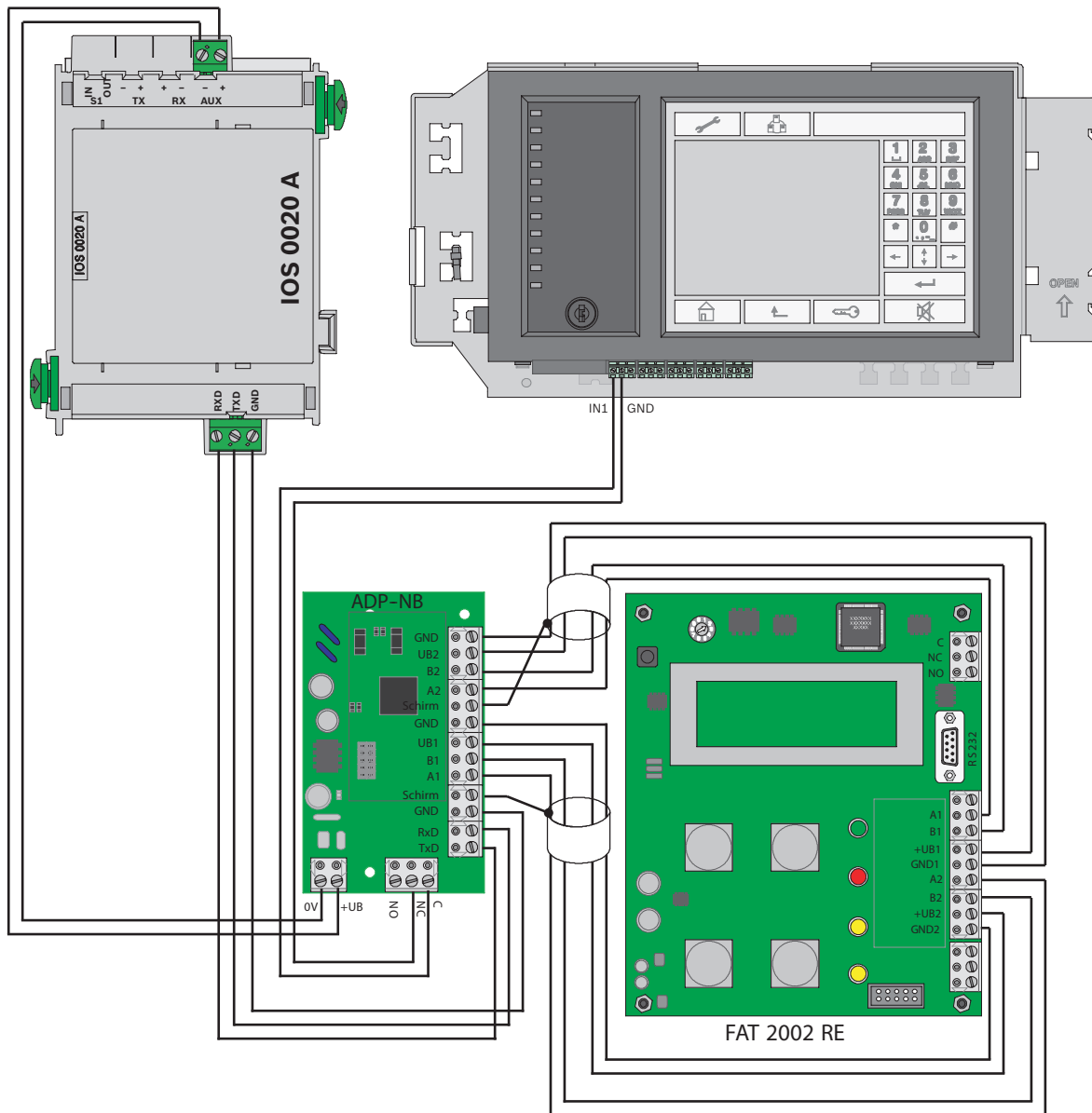


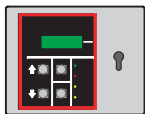
3.3.7

IOS 0020 A

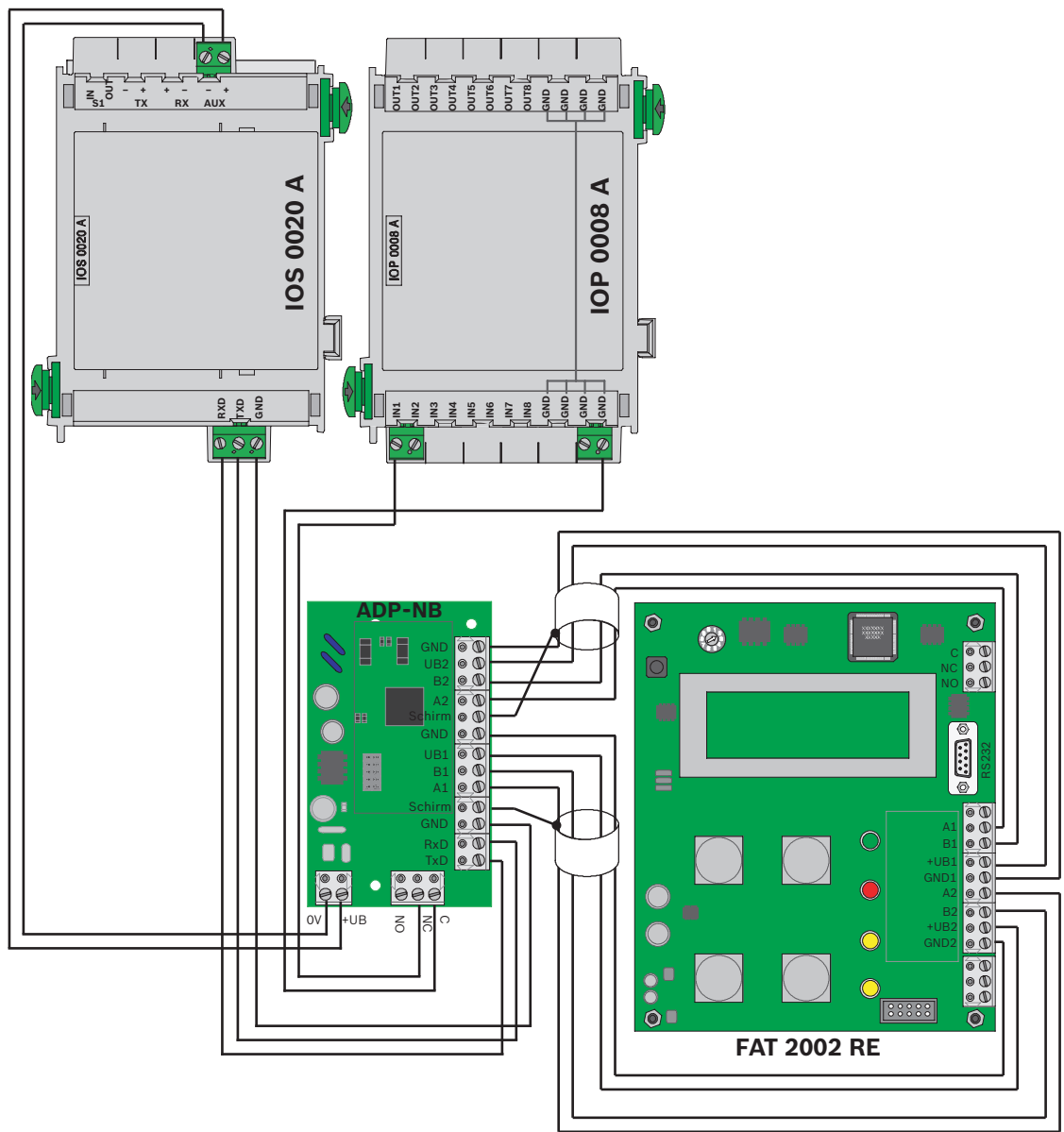


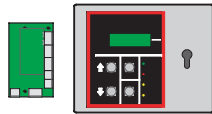
**FAT 2002 RE
ADP-NB**



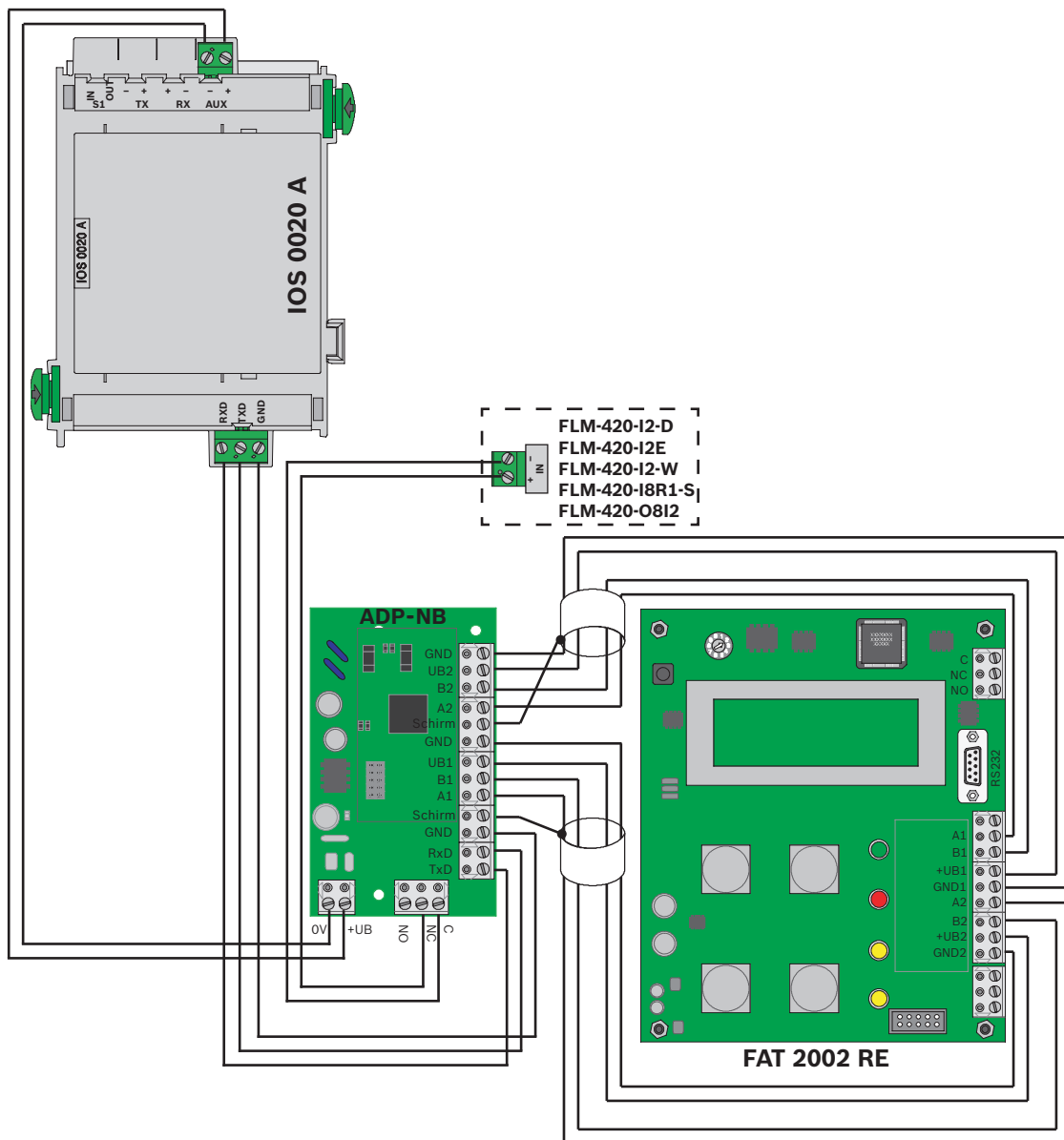


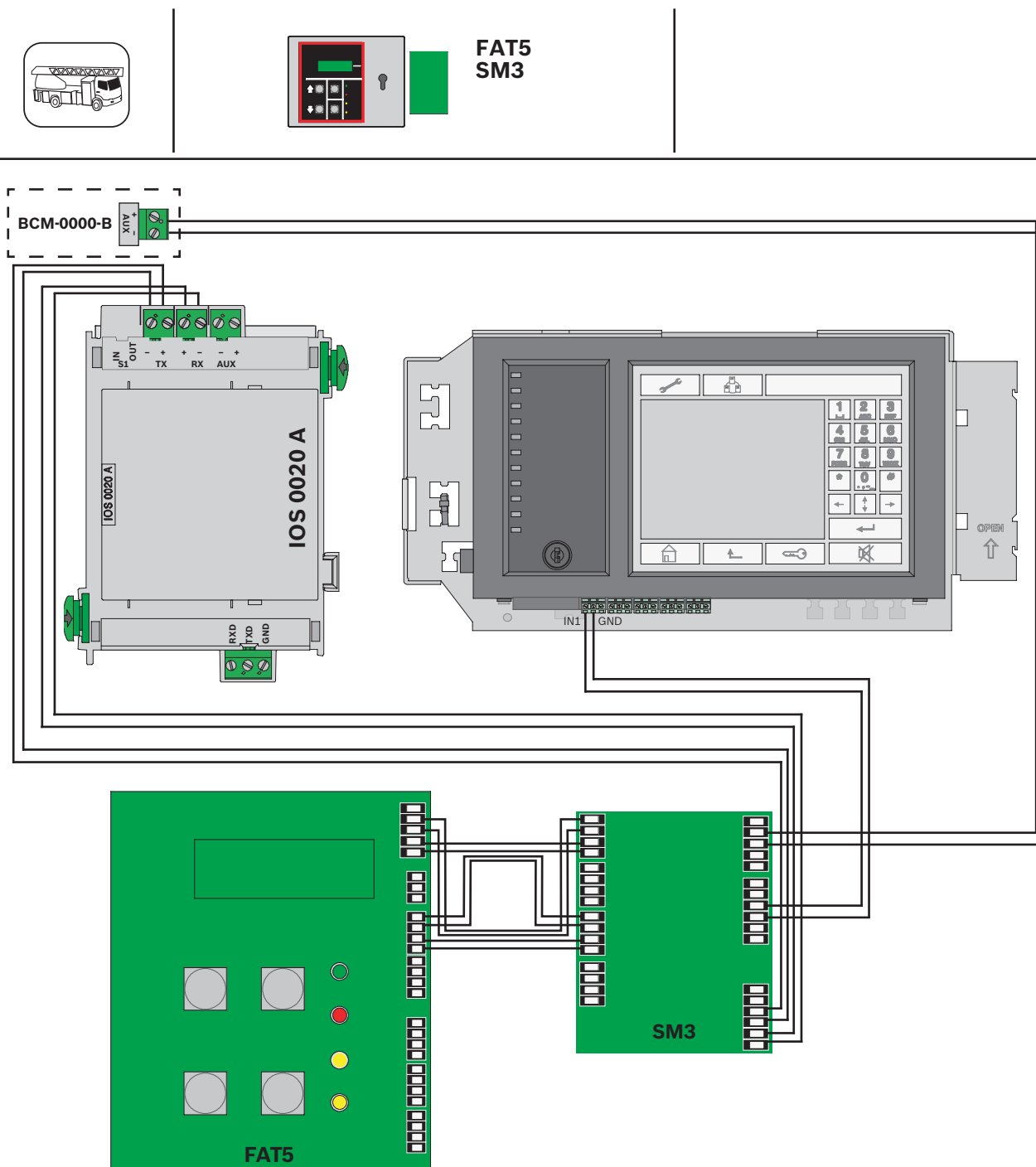
**FAT 2002 RE
ADP-NB**

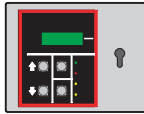




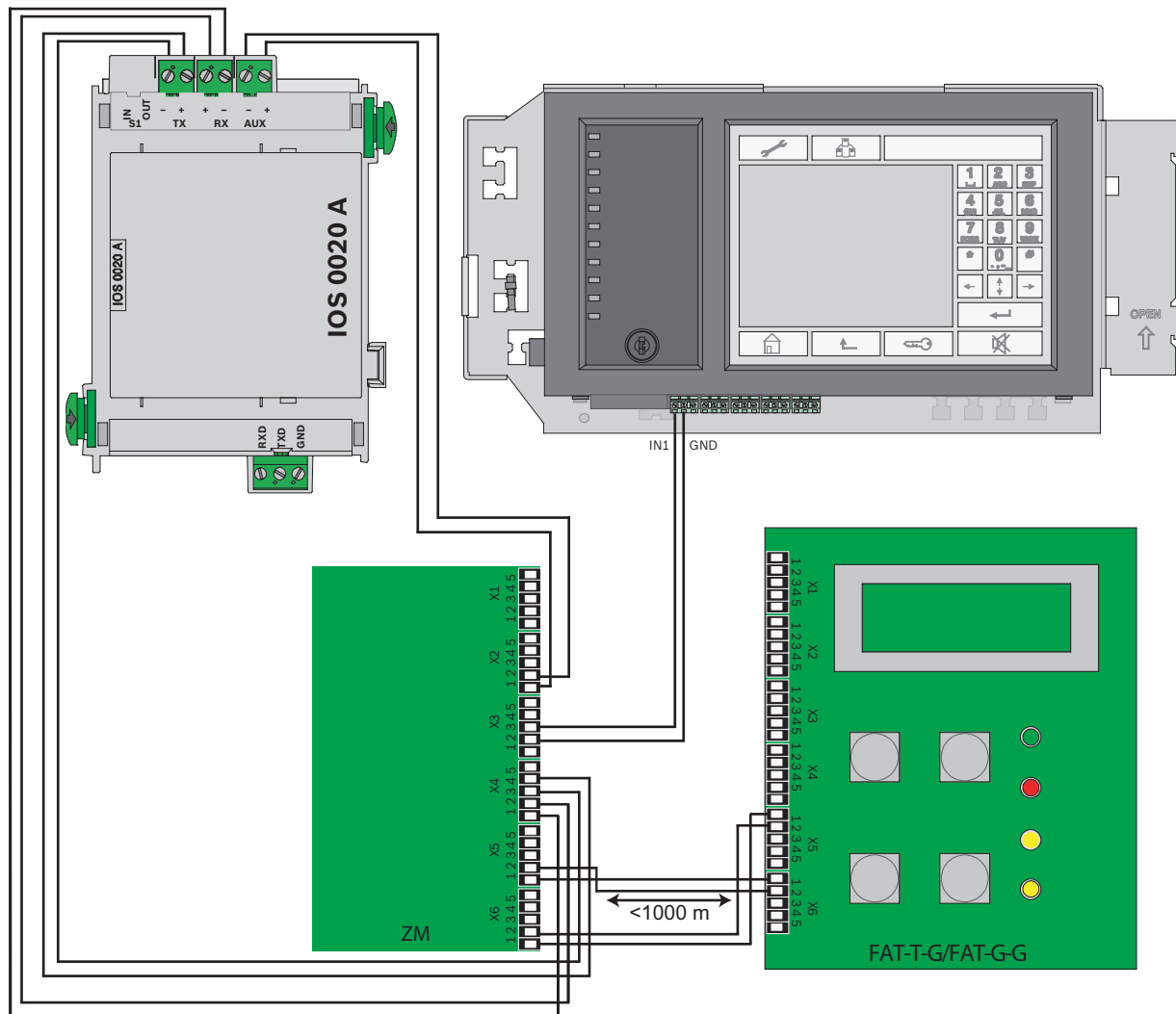
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ADP-NB**

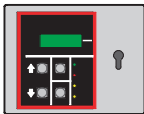




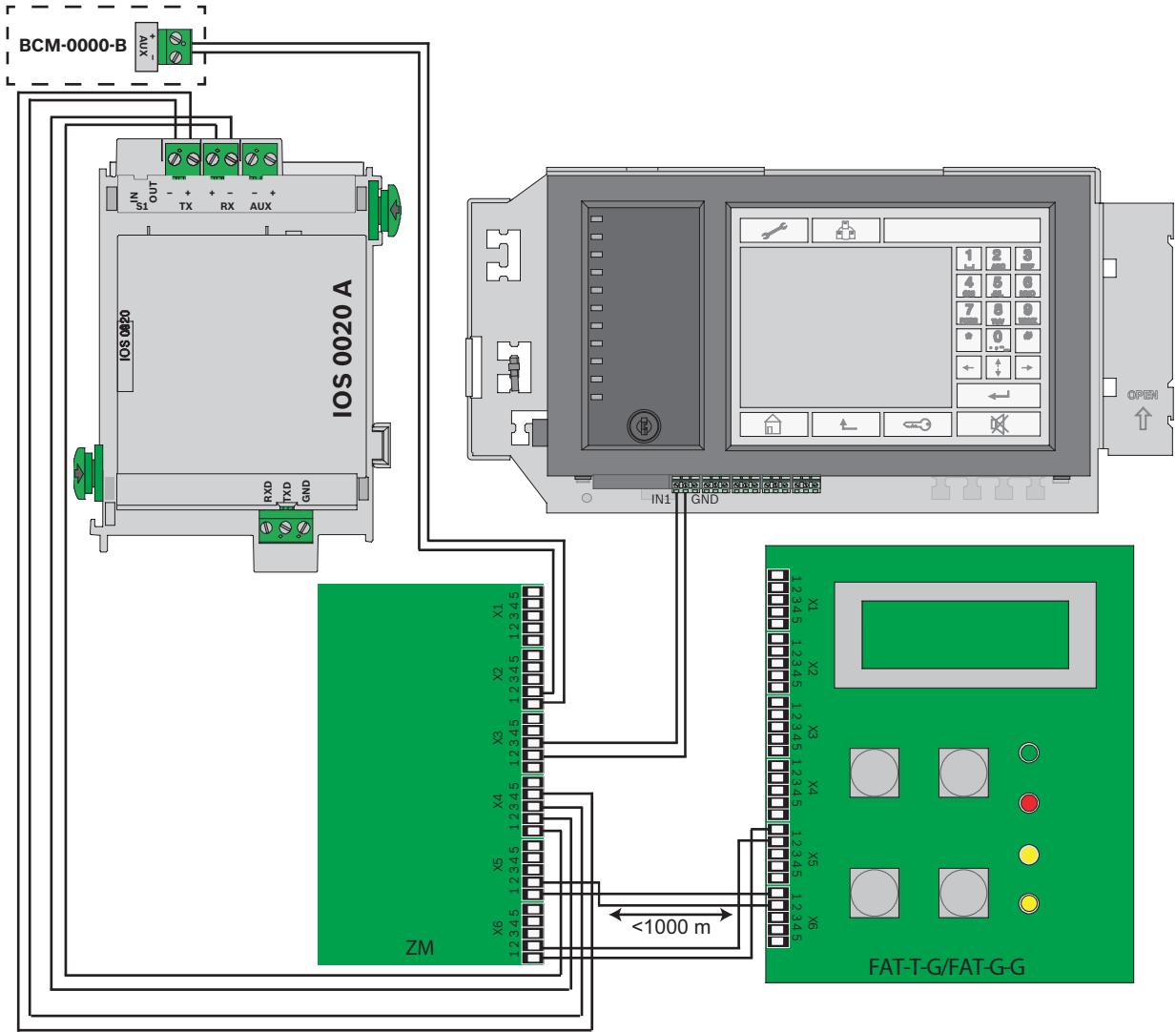


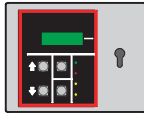
FAT-T-G/FAT-G-G
ZM



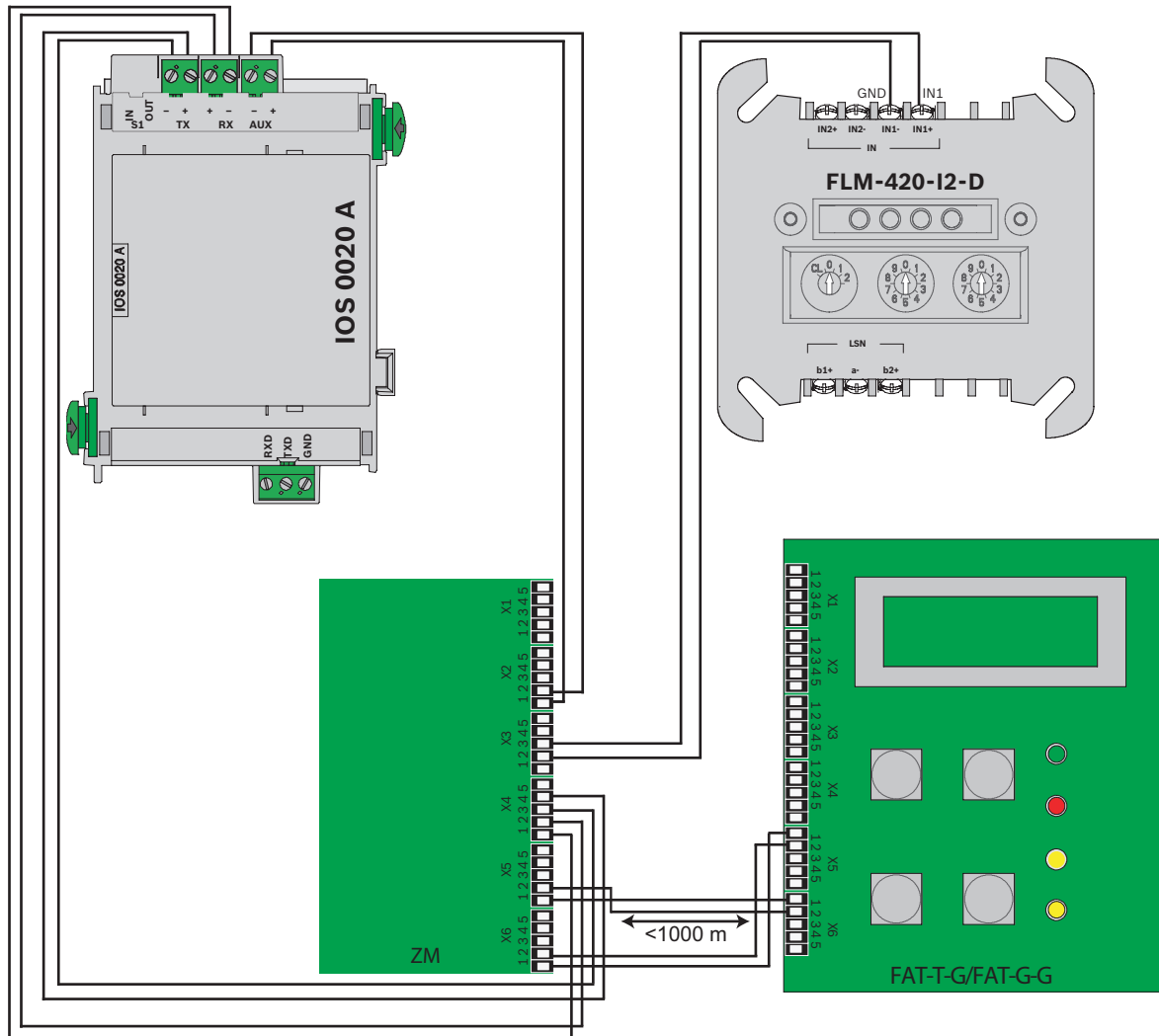


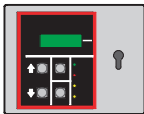
FAT-T-G/FAT-G-G
ZM



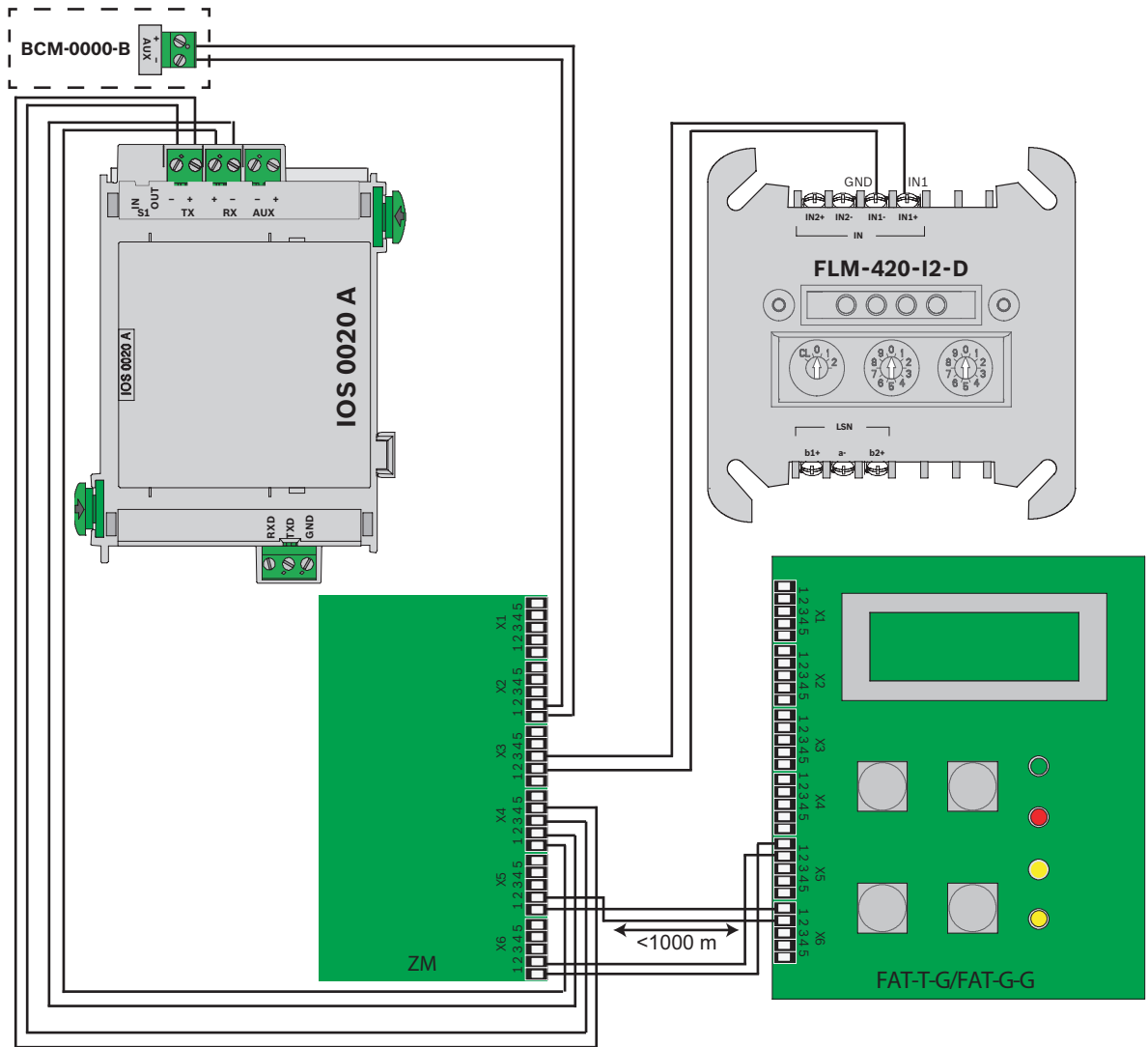


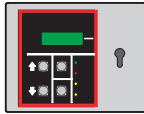
**FAT-T-G/FAT-G-G
ZM**



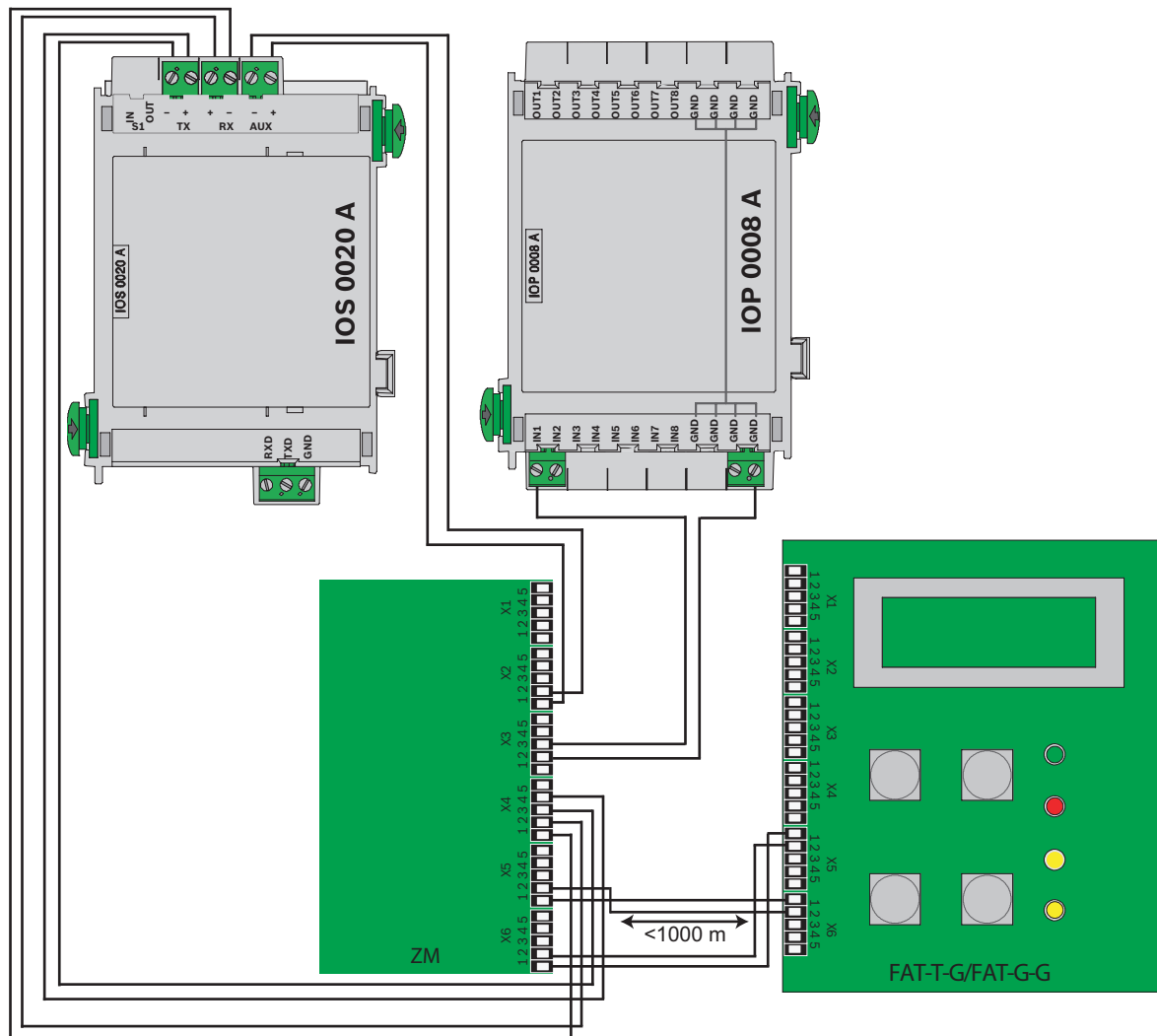


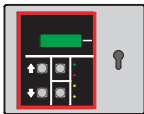
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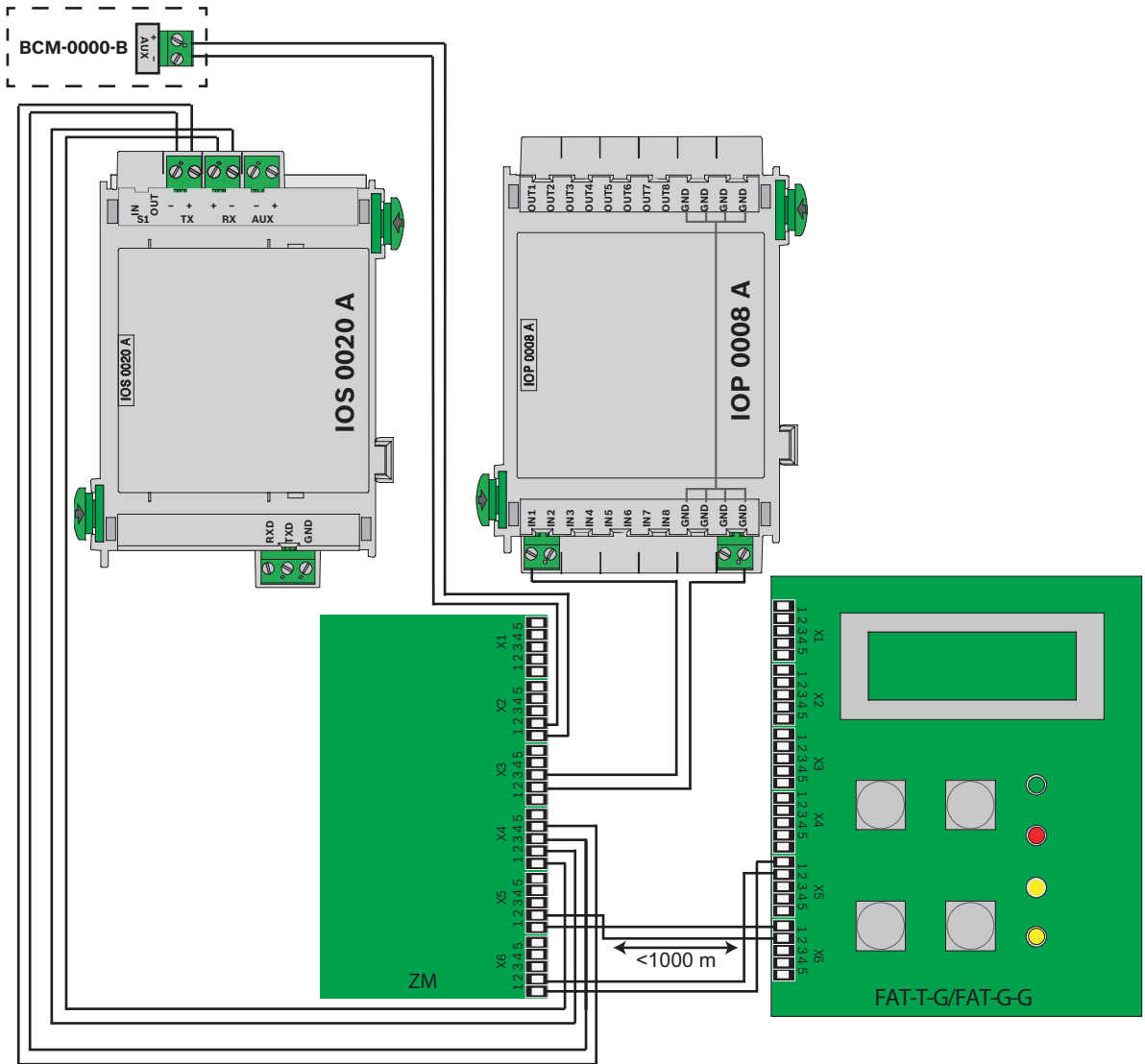


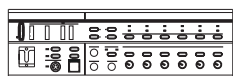
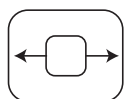
**FAT-T-G/FAT-G-G
ZM**



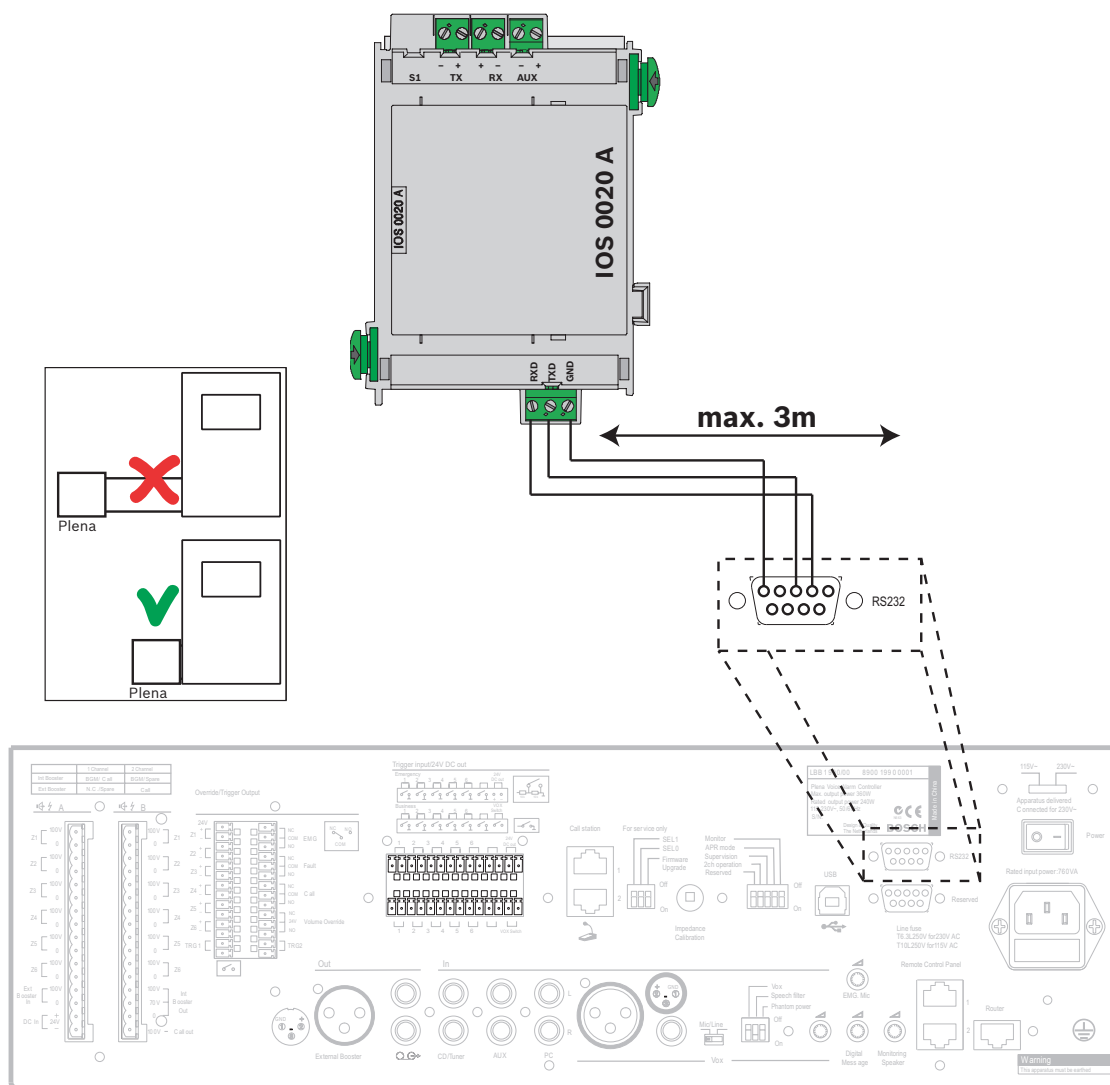


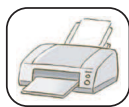
FAT-T-G/FAT-G-G
ZM



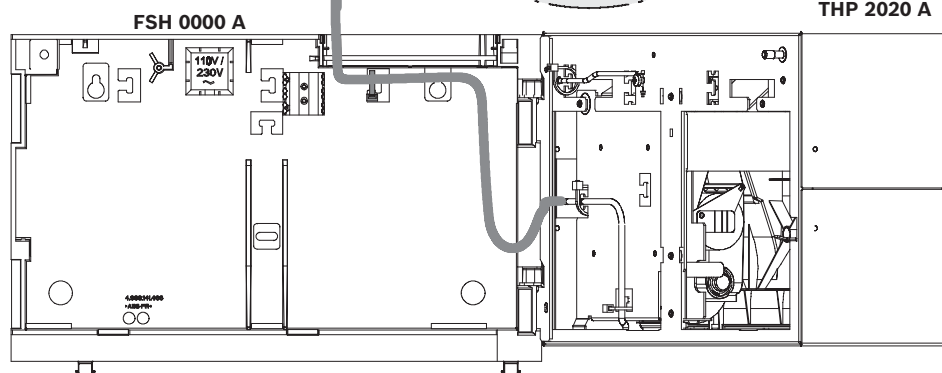
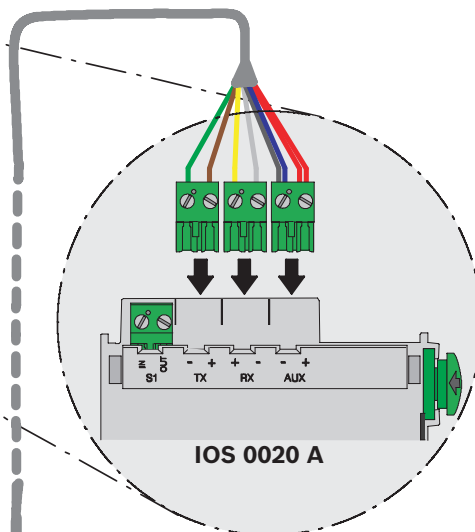
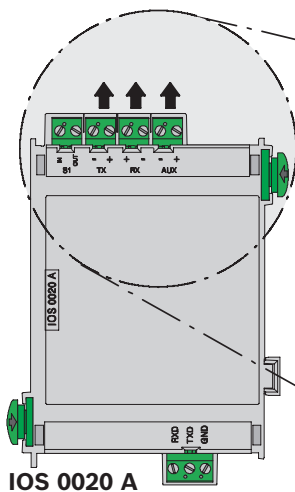
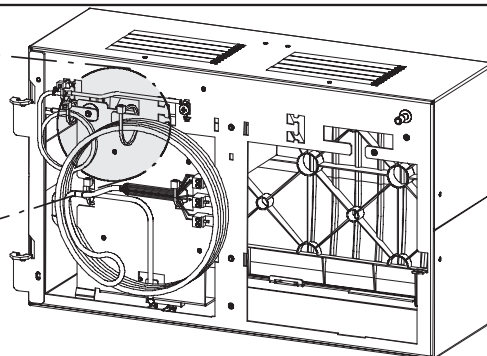
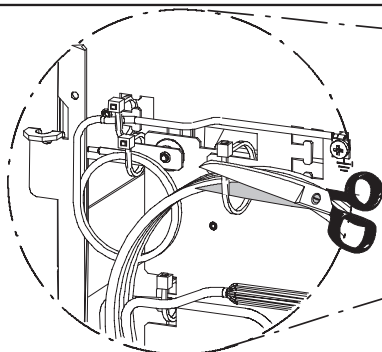


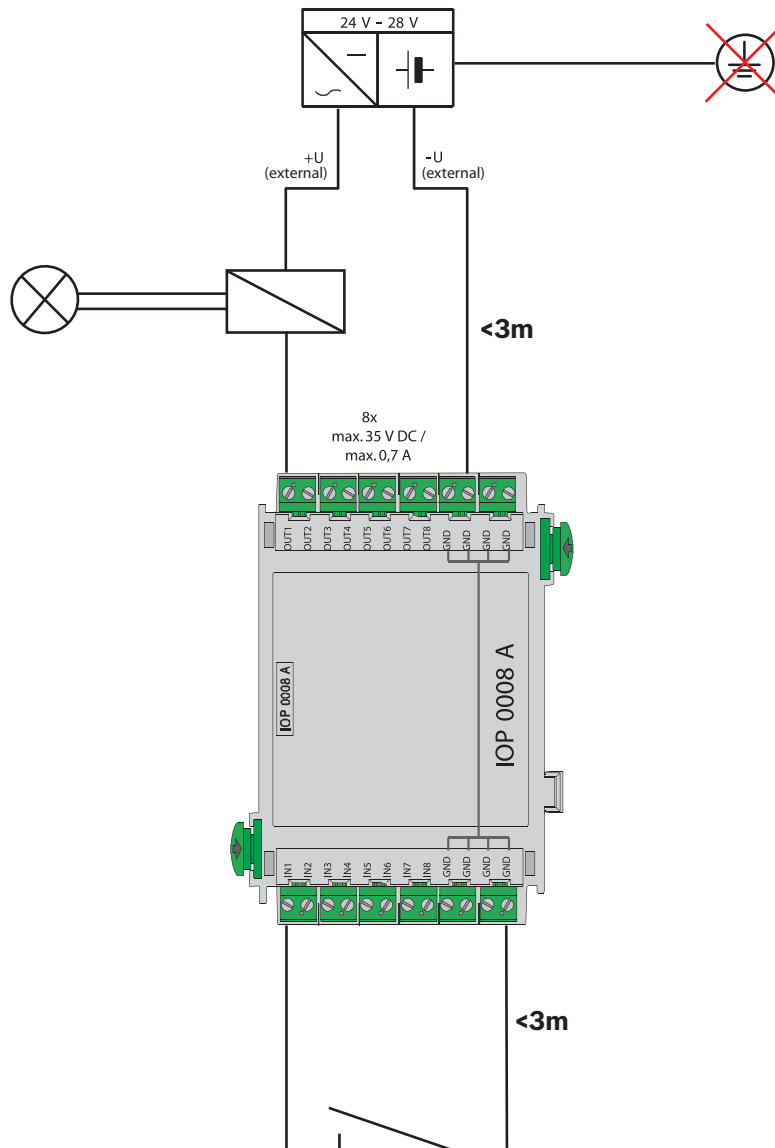
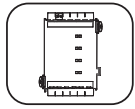
Plena





THP 2020 A



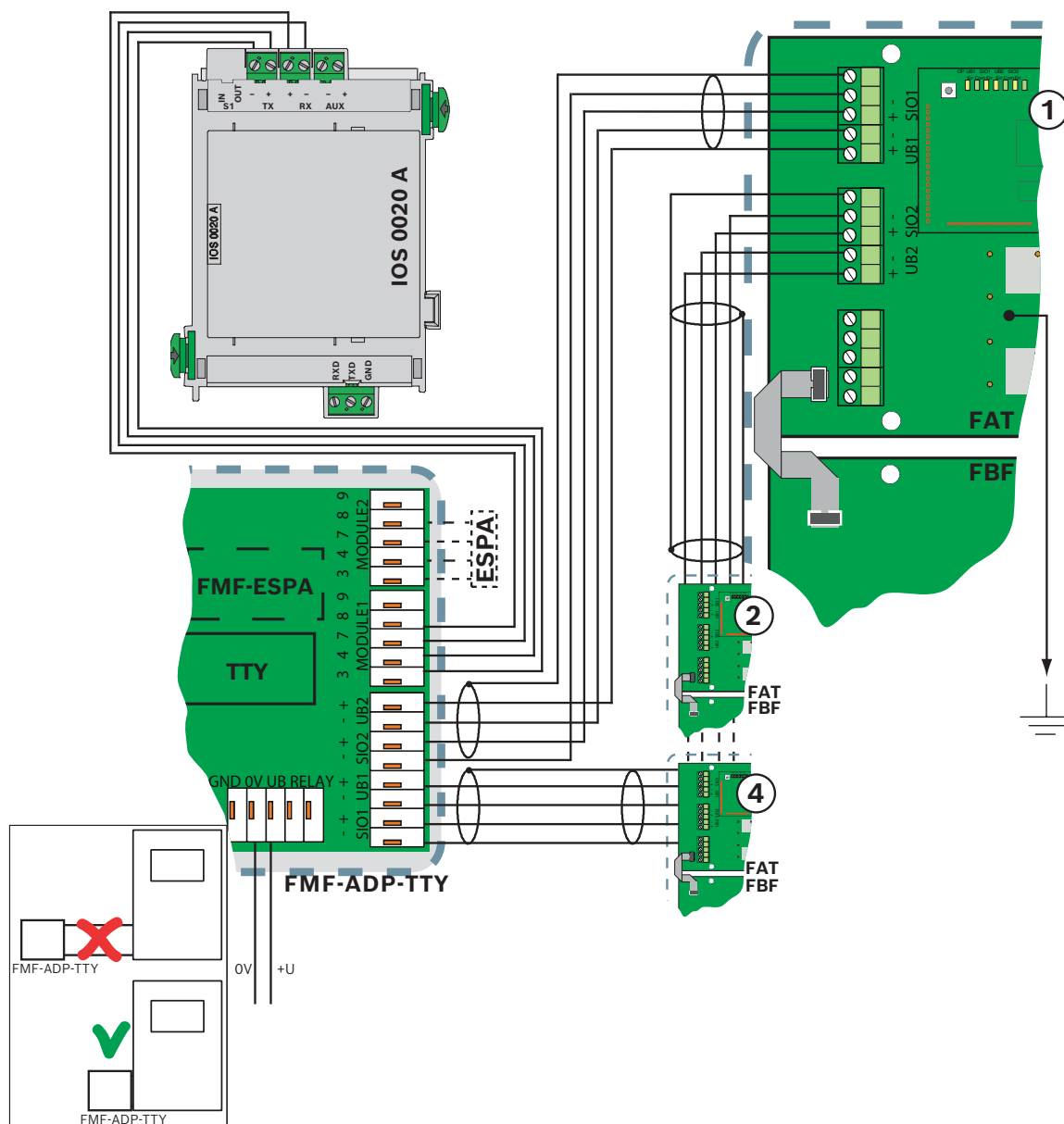




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FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS VdS 2489

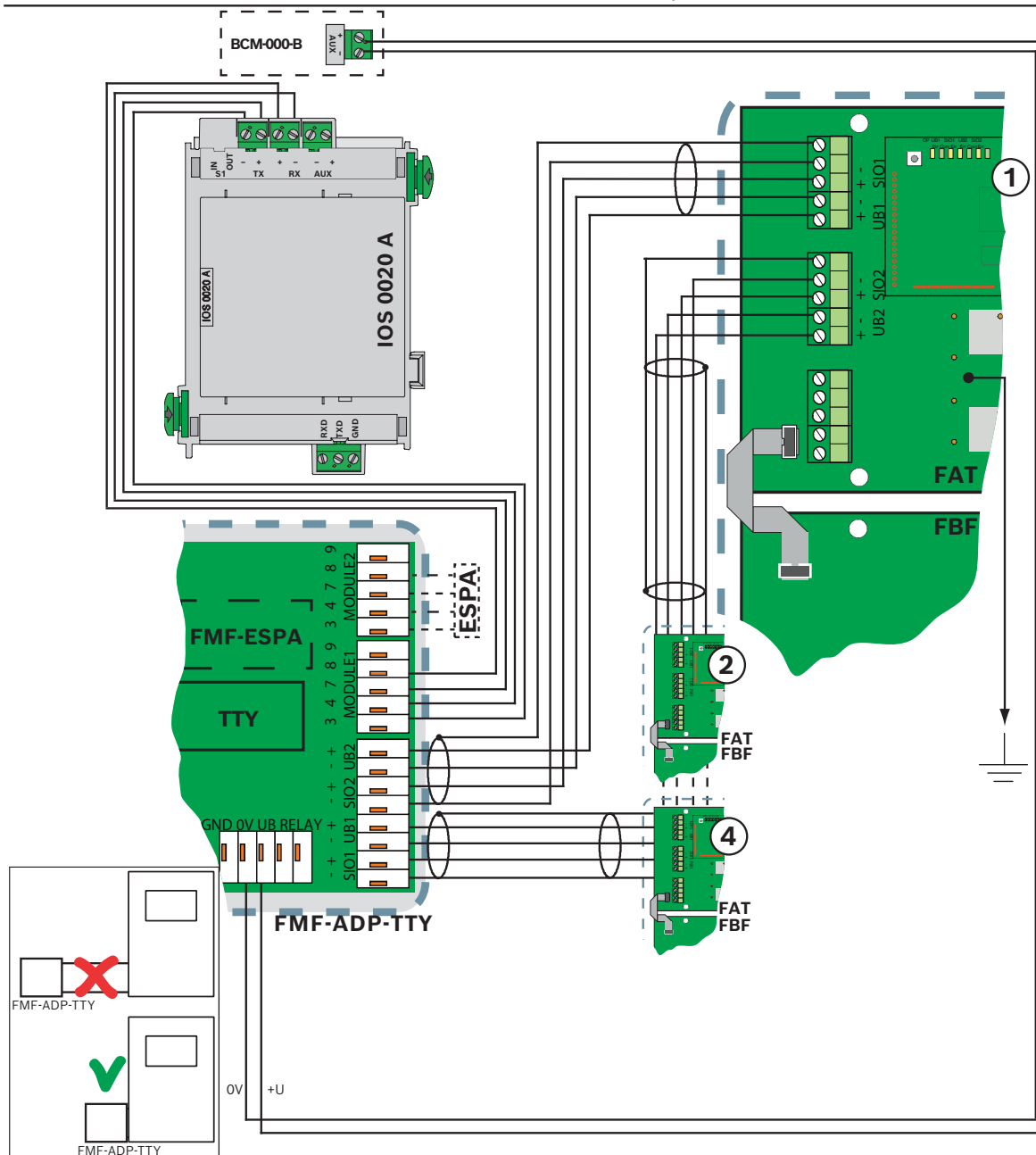




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



3.3.8

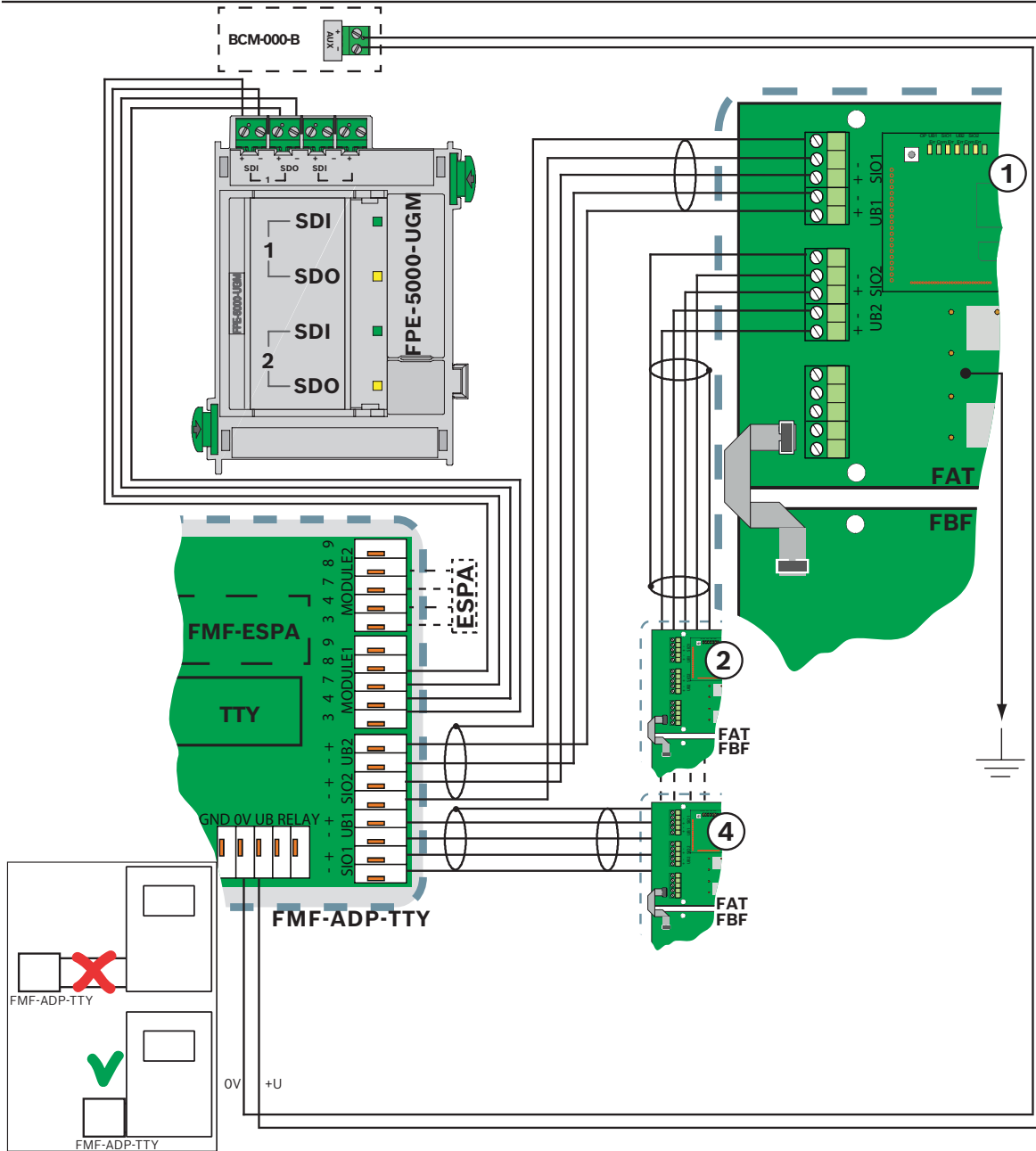
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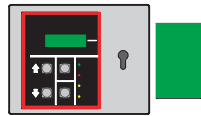
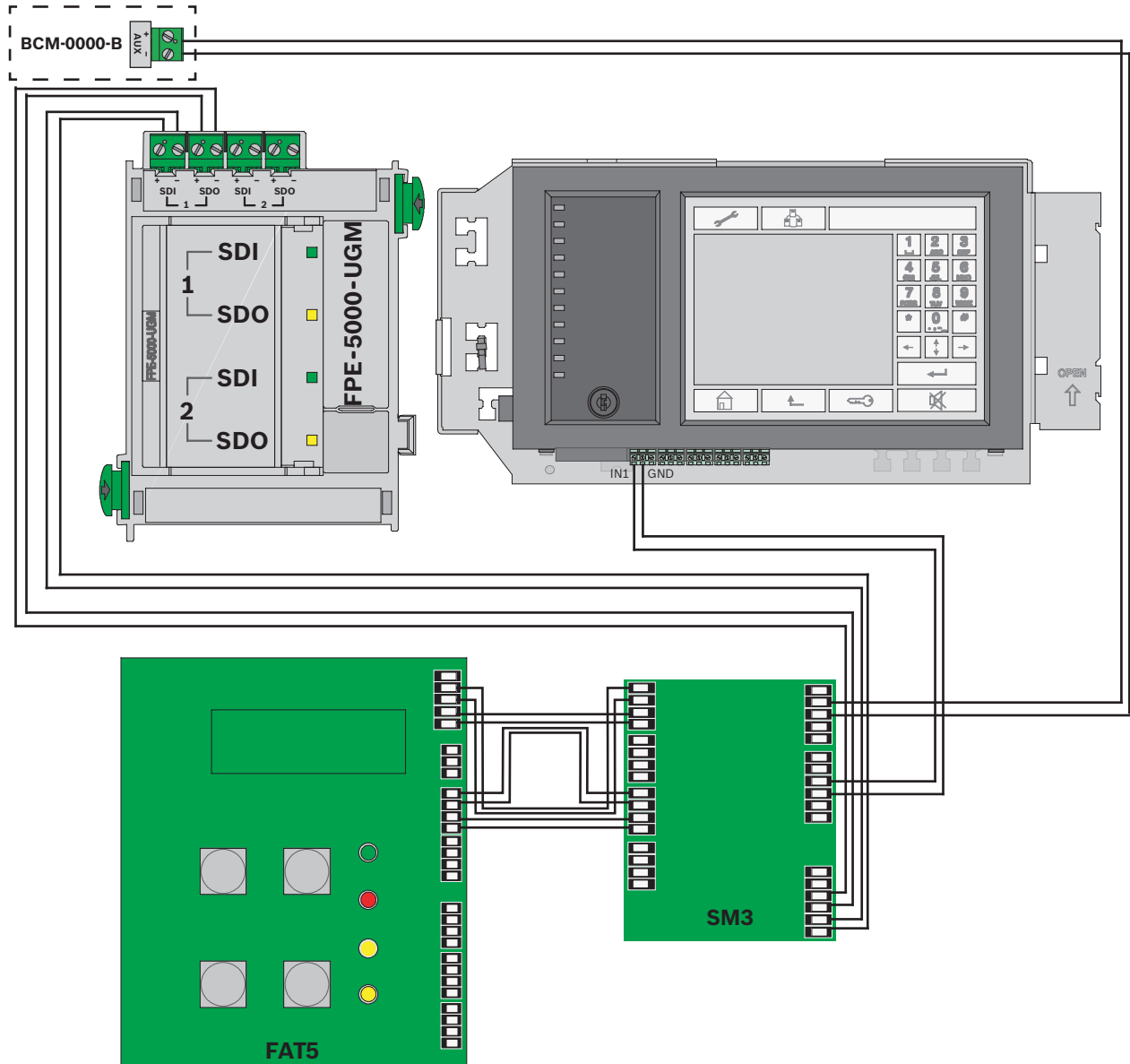


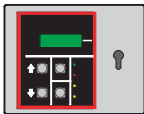
FAT4000 FBF4000 ADP4000

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

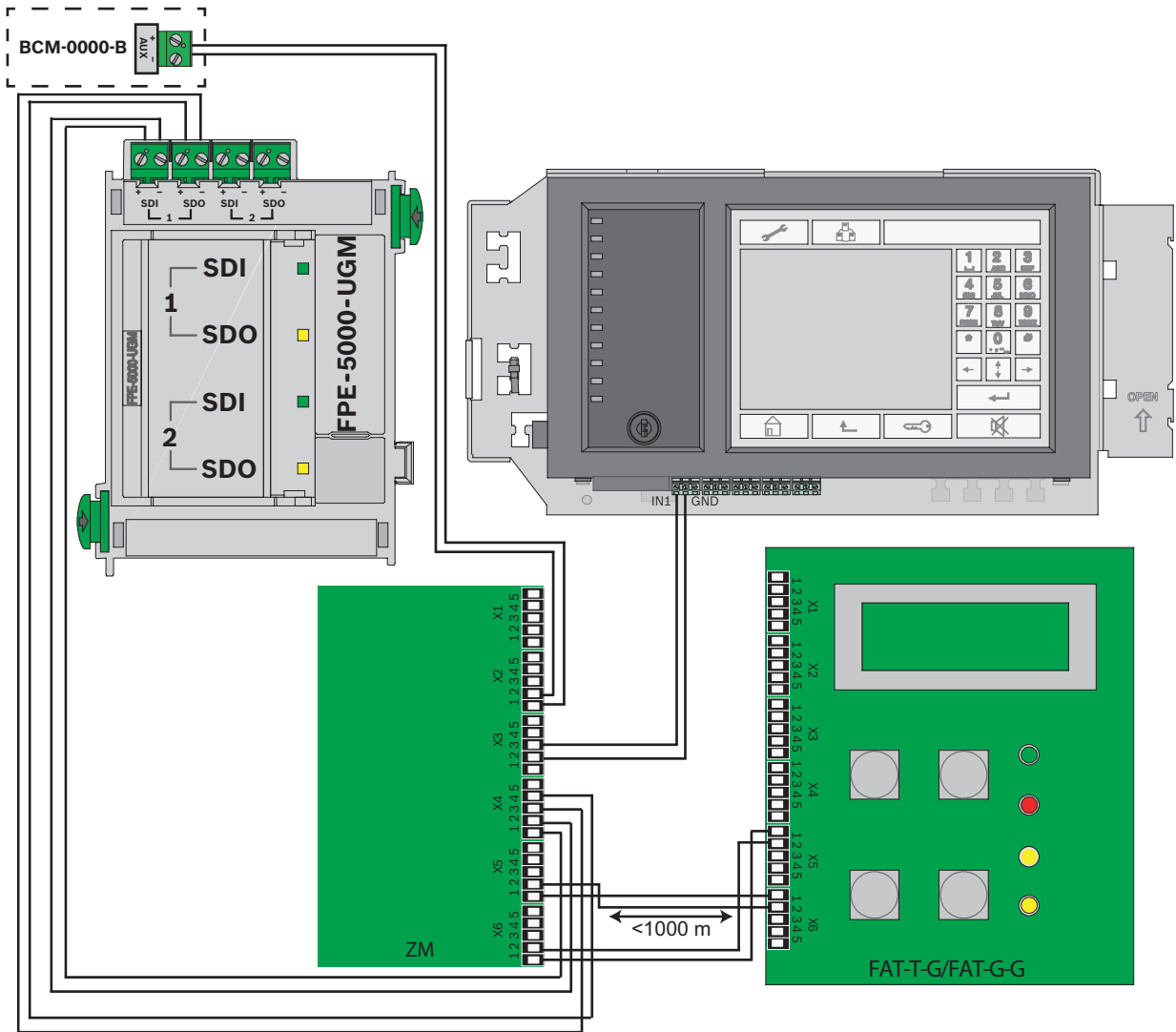
ELS VdS 2489

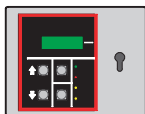


**FAT5
SM3**

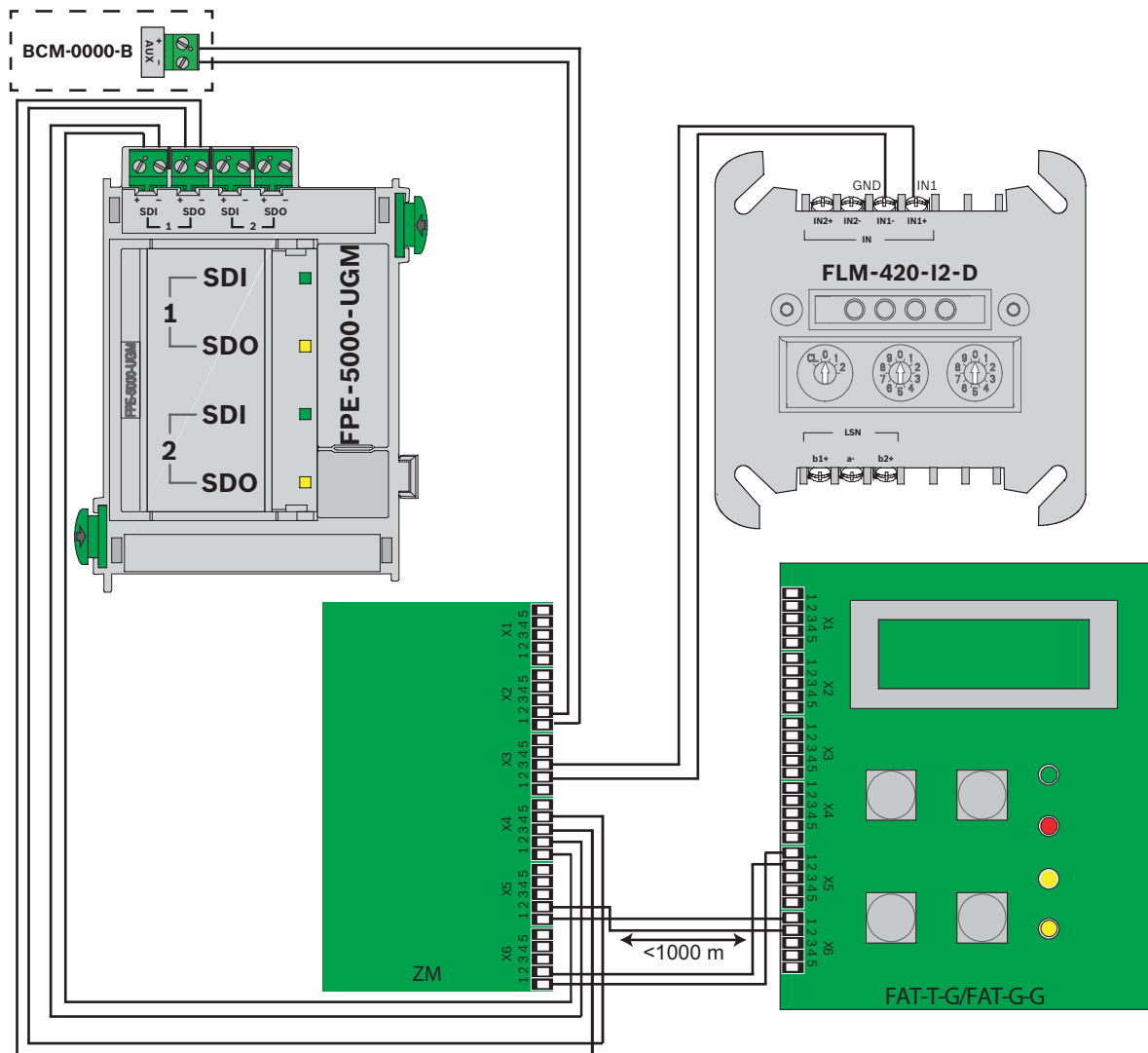


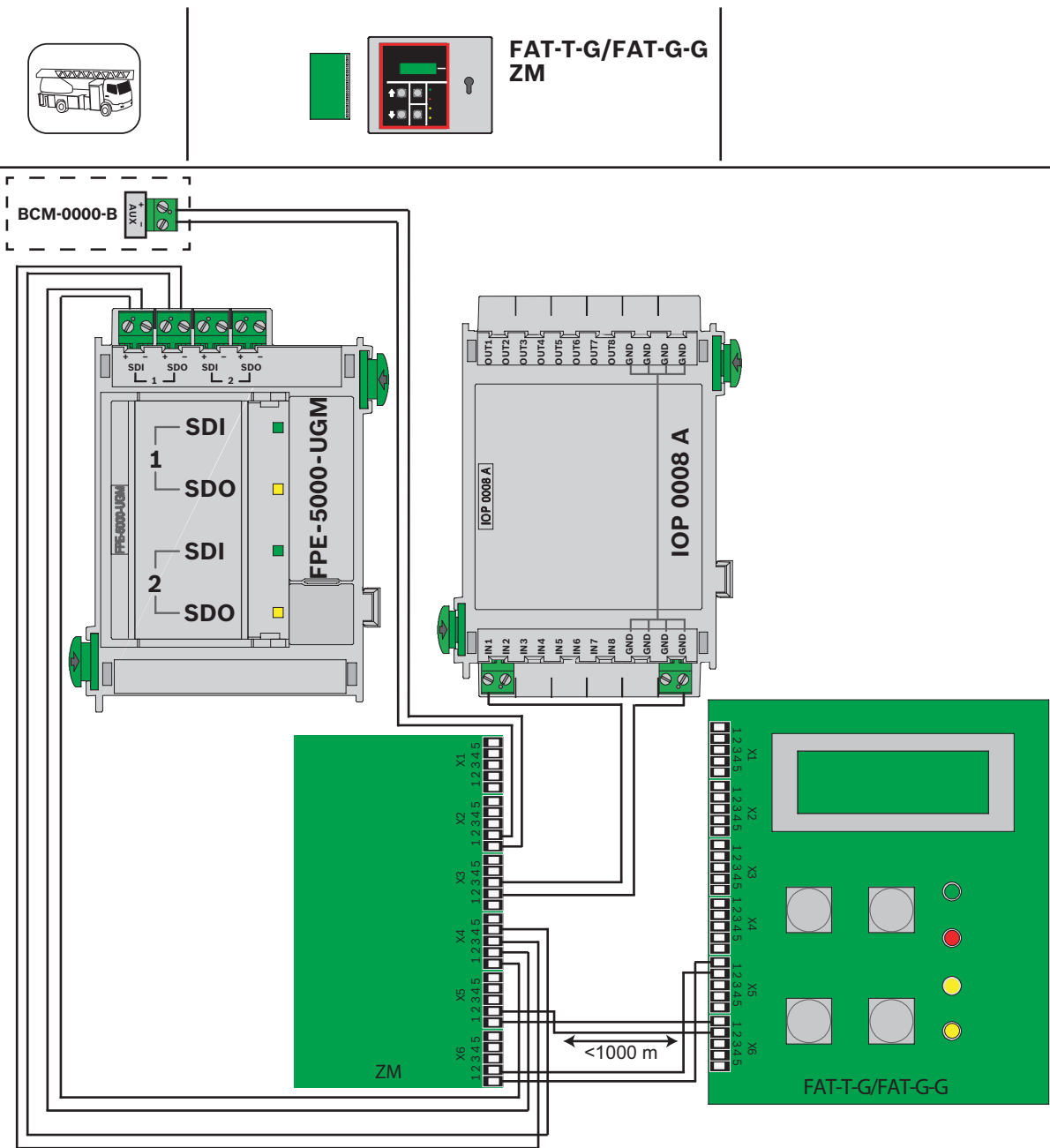
FAT-T-G/FAT-G-G
ZM





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





3.4 Interface Modules



FLM-420/4-CON-D/S, page 136

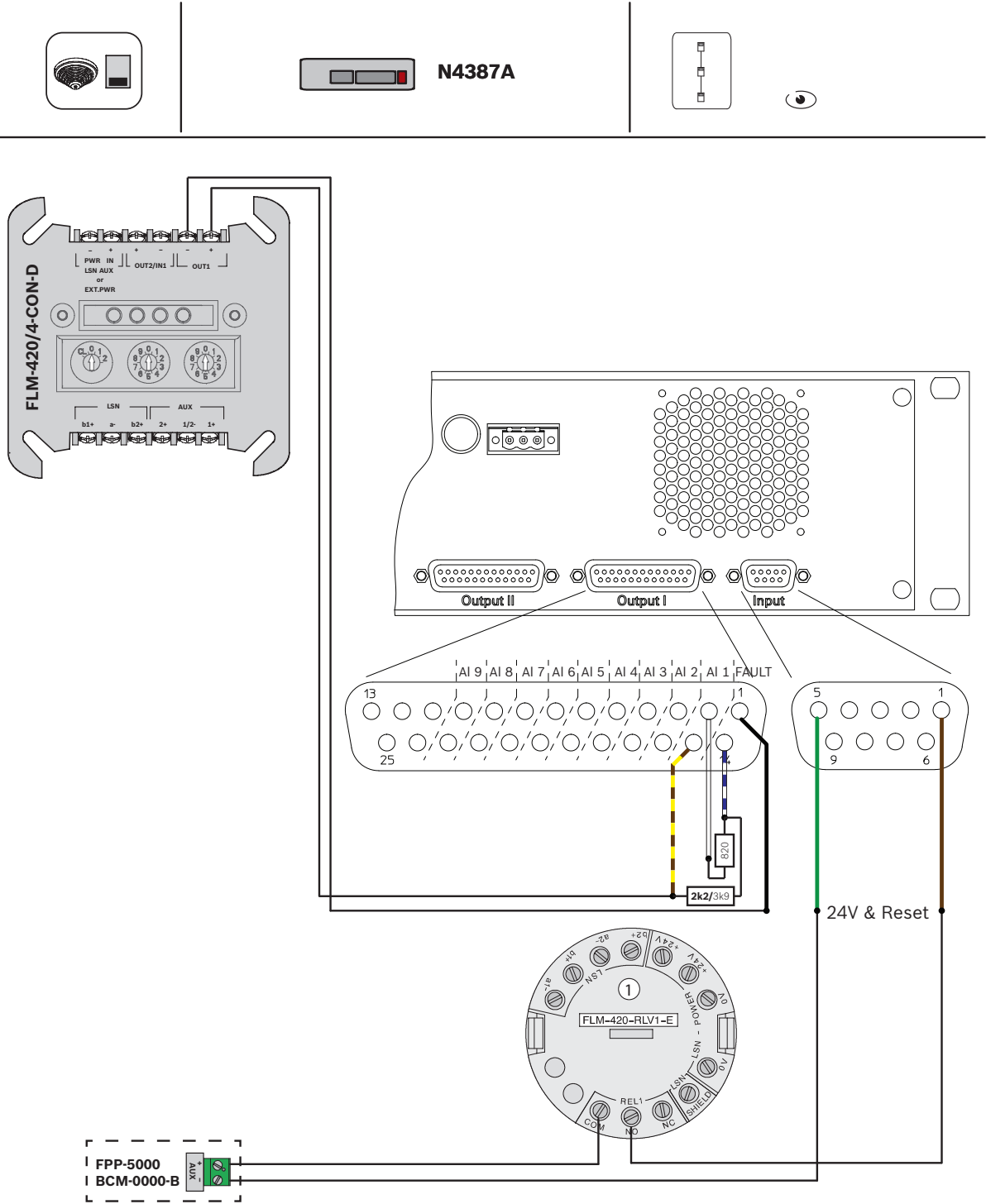
FLM-420-NAC-D/S, page 161

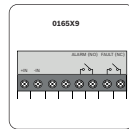
FLM-420-RLE-S, page 174

FLM-420-RLV1-E, page 175

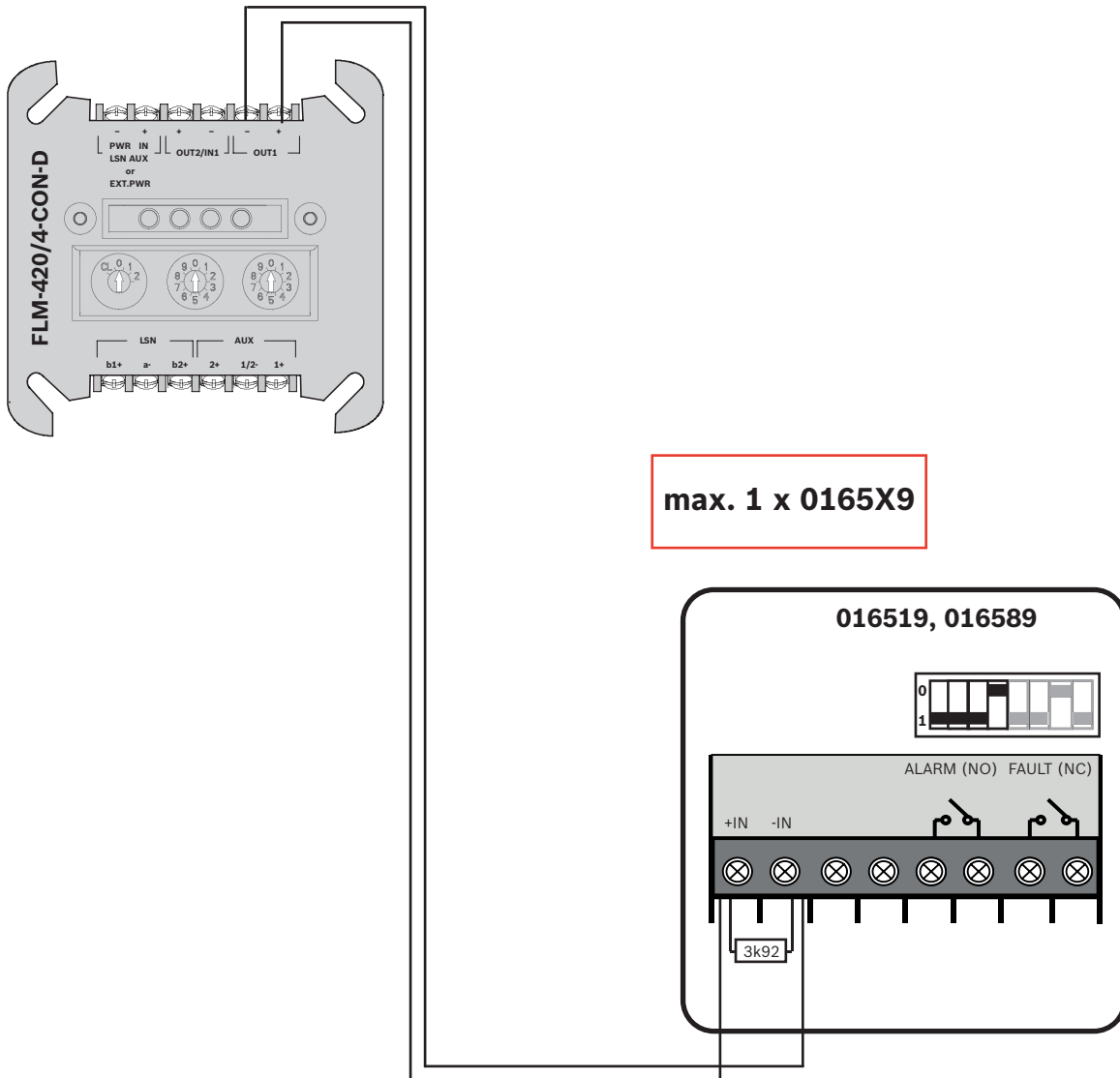
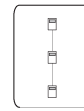
FLM-420-RLV8-S, page 176

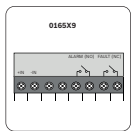
3.4.1 FLM-420/4-CON-D/S



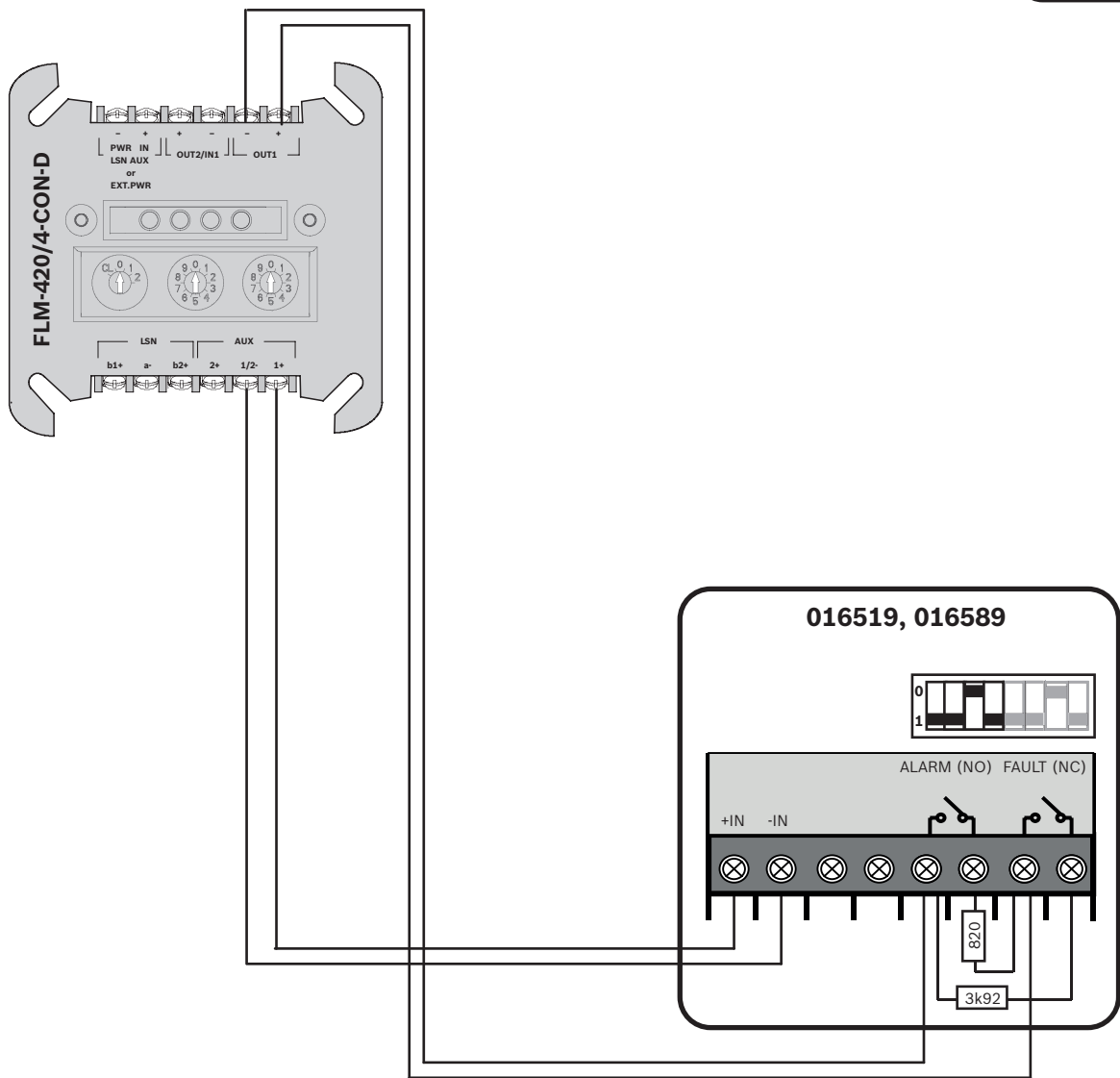
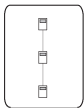


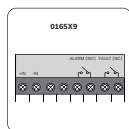
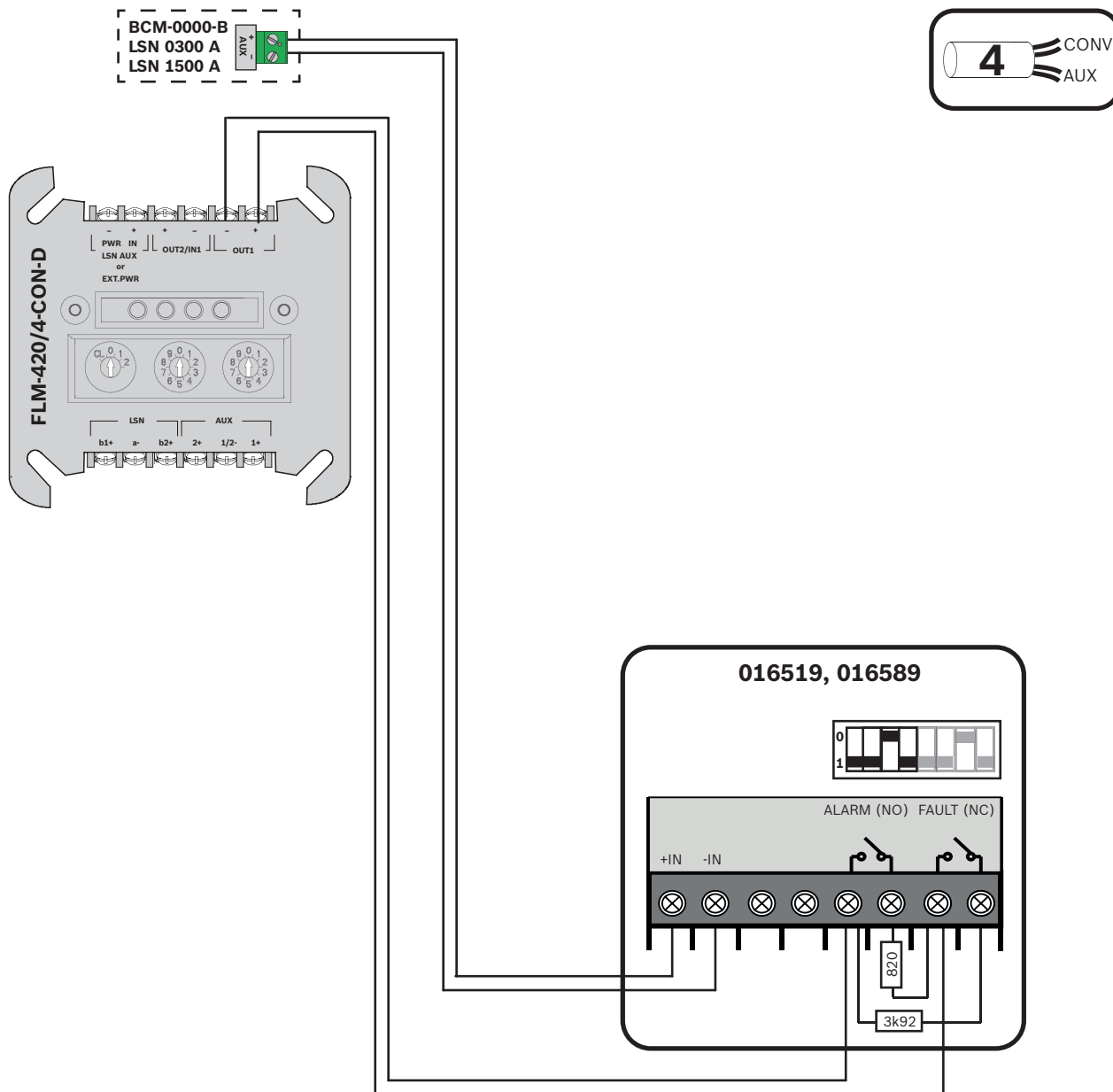
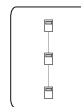
016519, 016589 IR3 Flame Detector





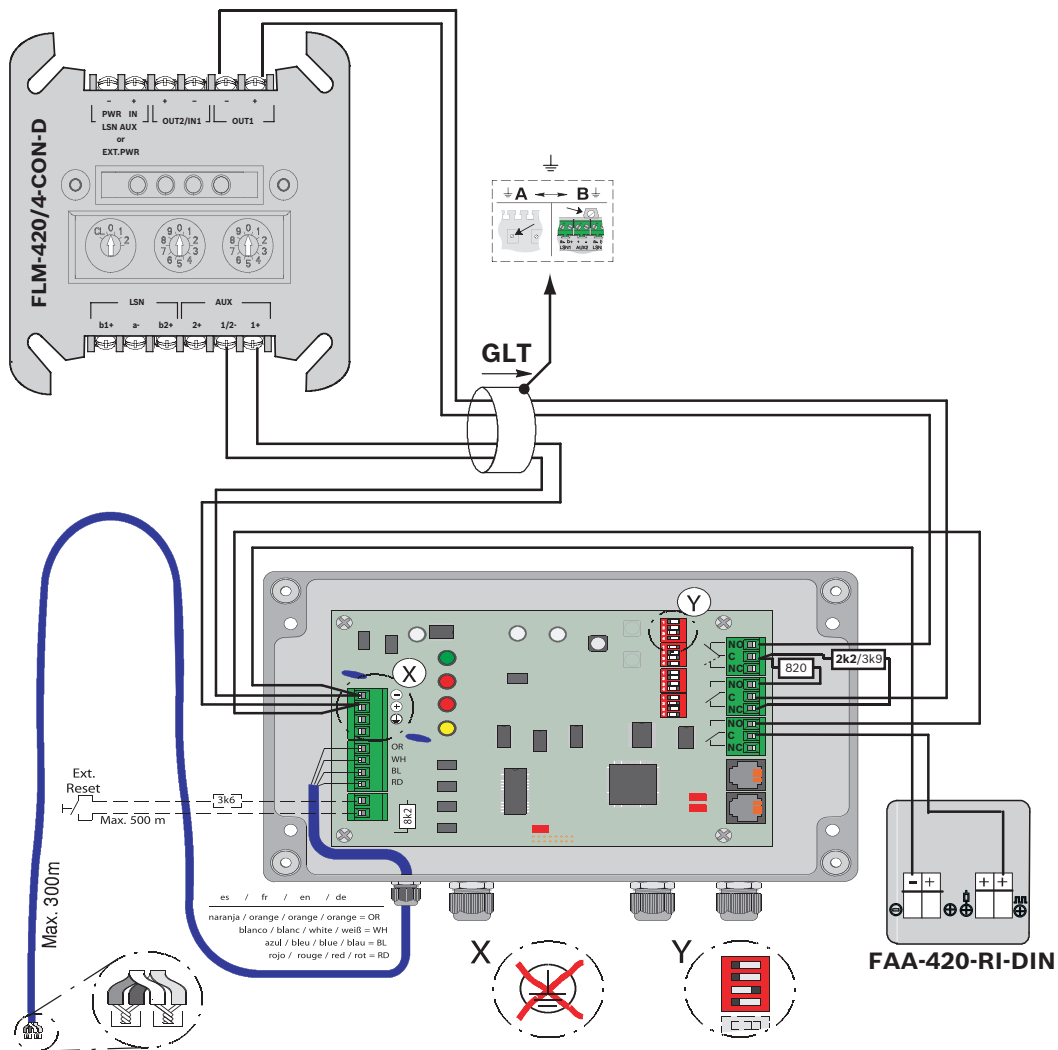
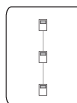
016519, 016589
IR3 Flame Detector

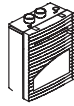


**016519, 016589**
IR3 Flame Detector



FCS-LWM-1

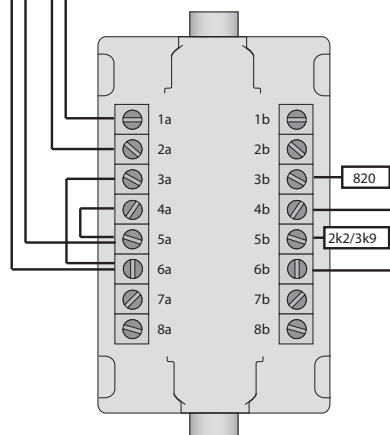
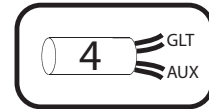
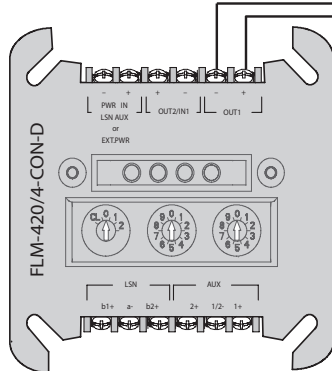


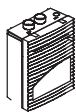


FCS-320-TM Series

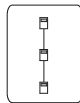


BCM-0000-B
LSN 0300 A
LSN 1500 A

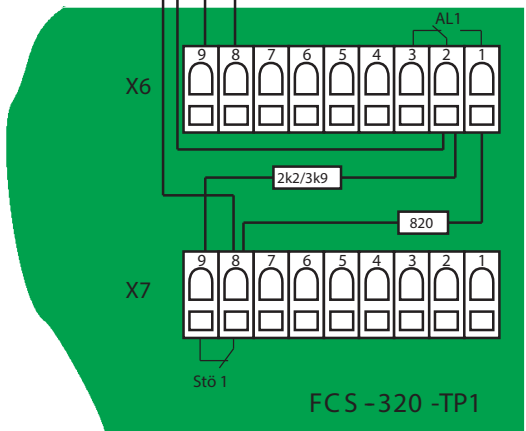
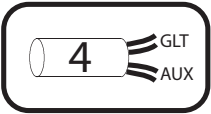
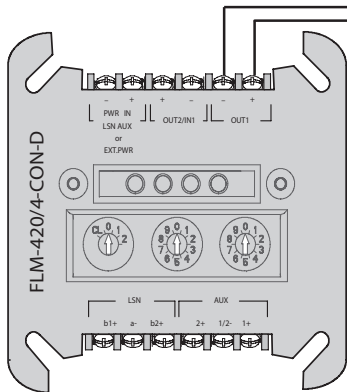


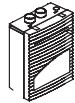


FCS-320-TP Series

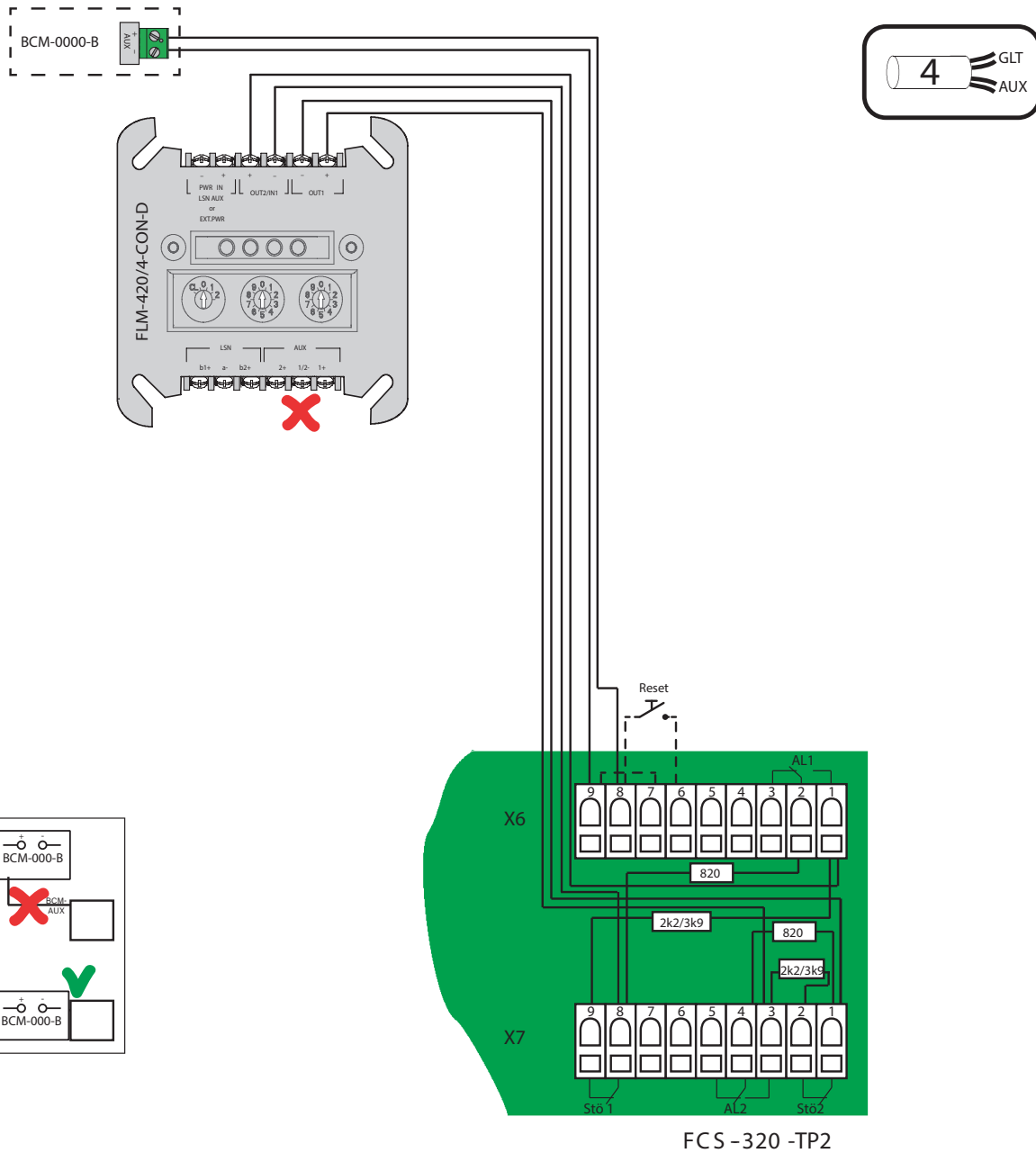


BCM-0000-B
LSN 0300 A
LSN 1500 A



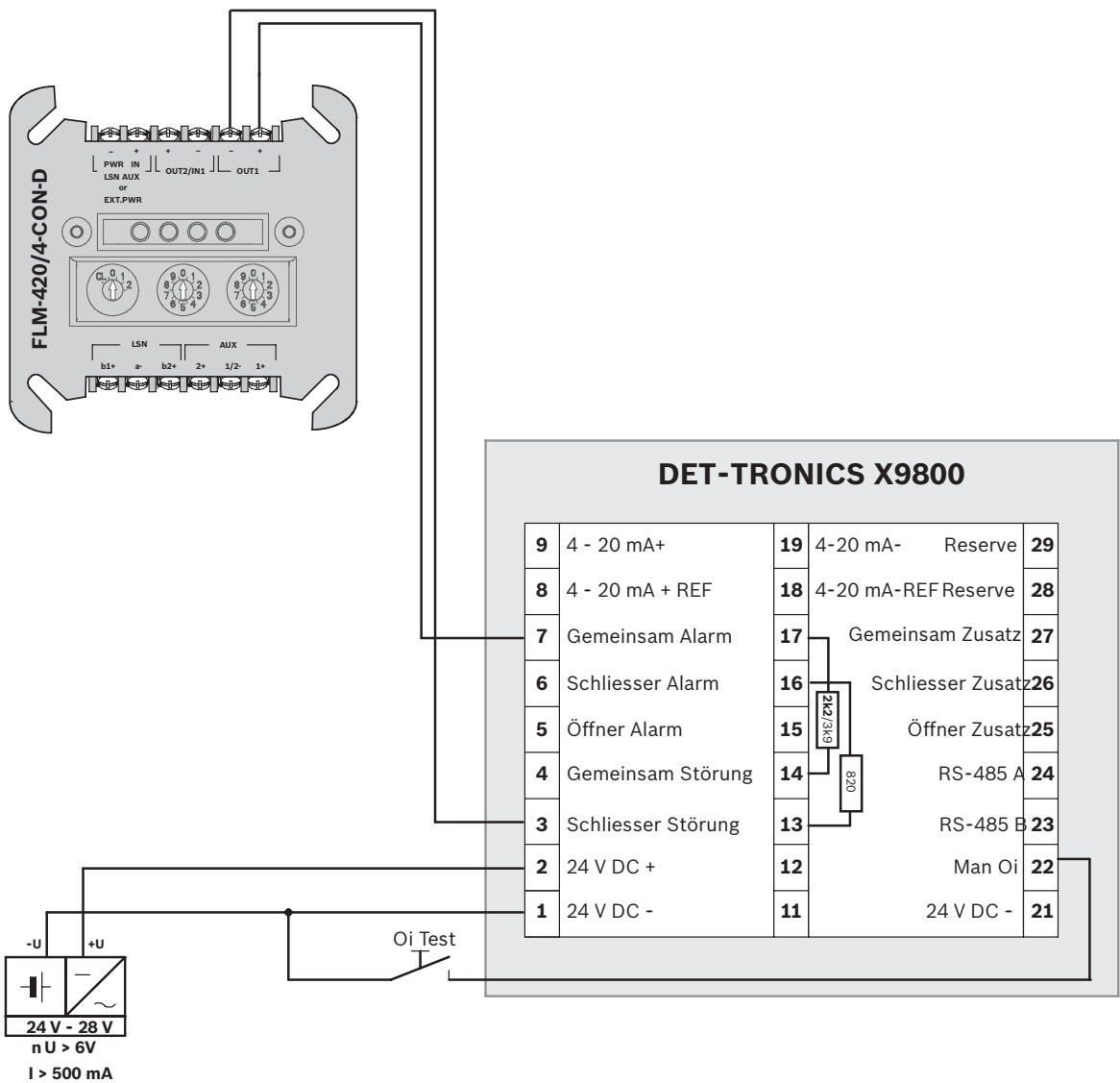
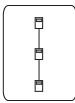


FCS-320-TP Series



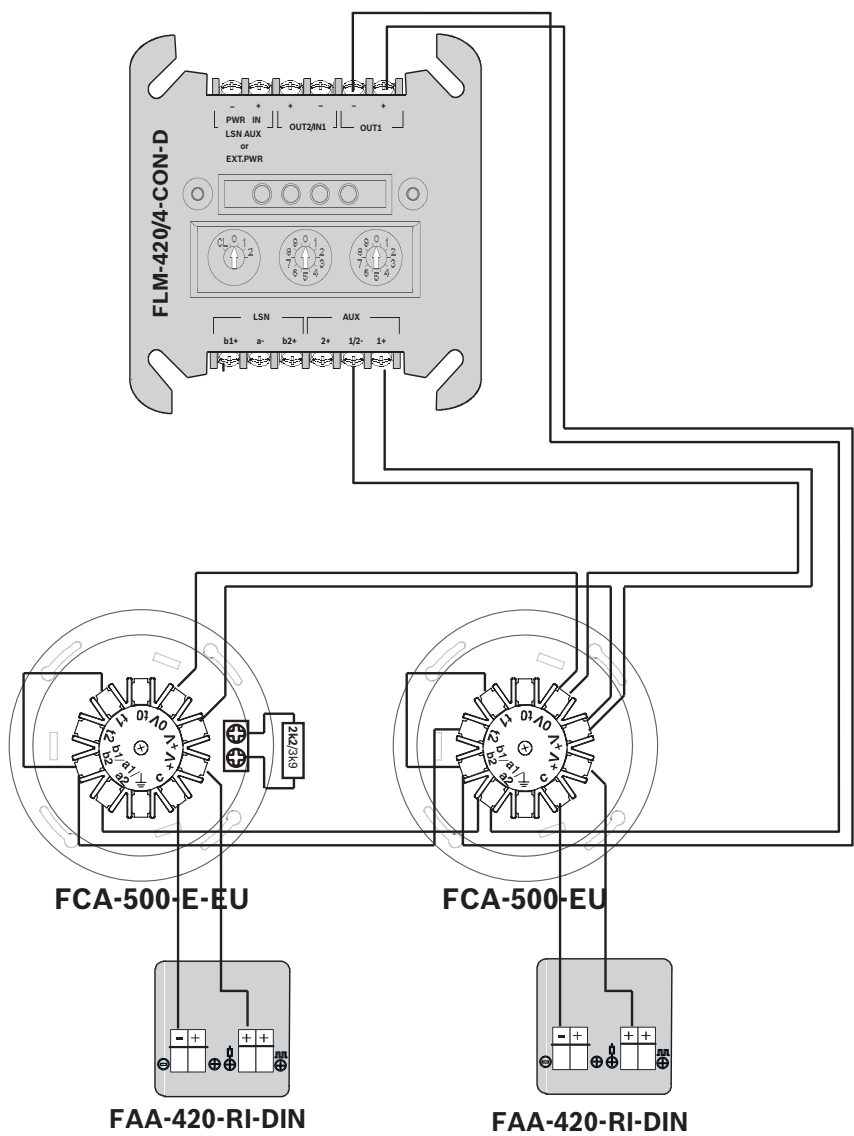


DET-TRONICS X9800



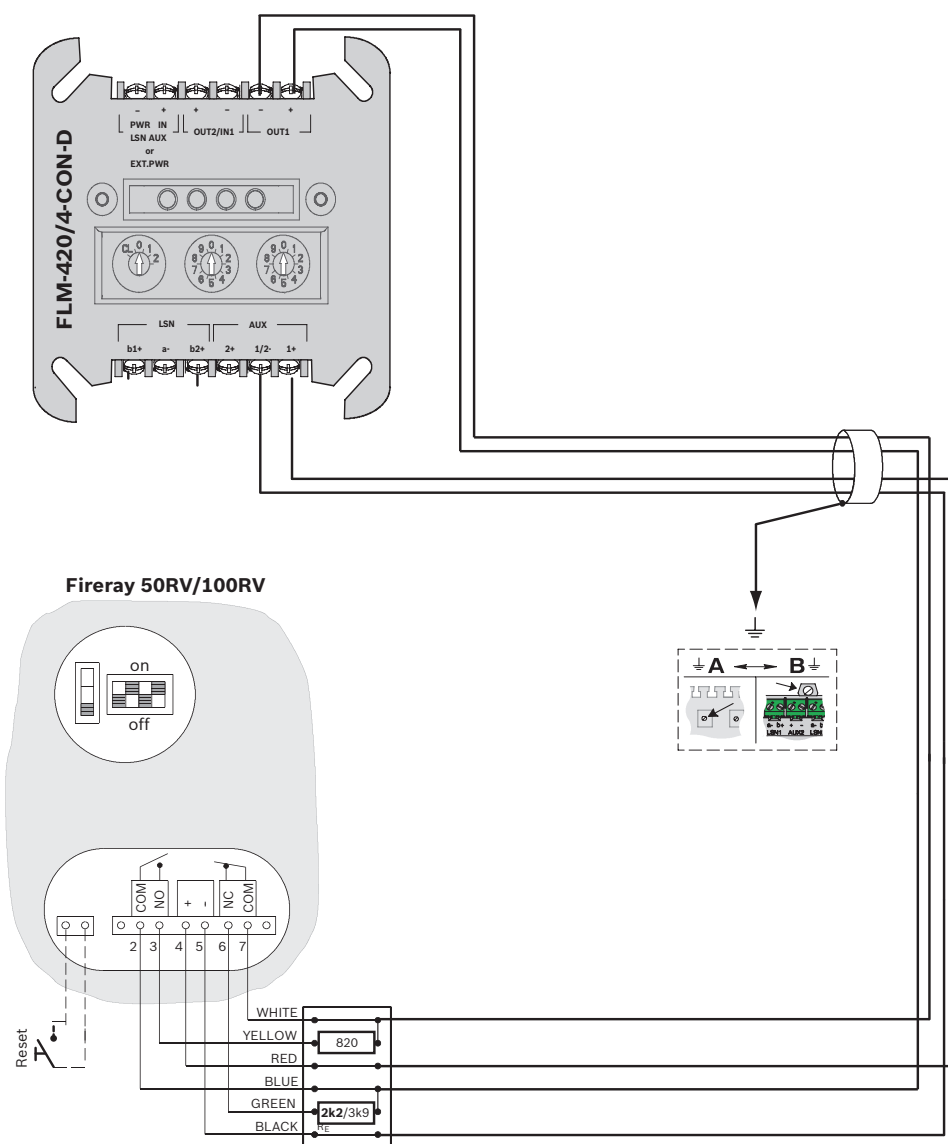


FCP-500





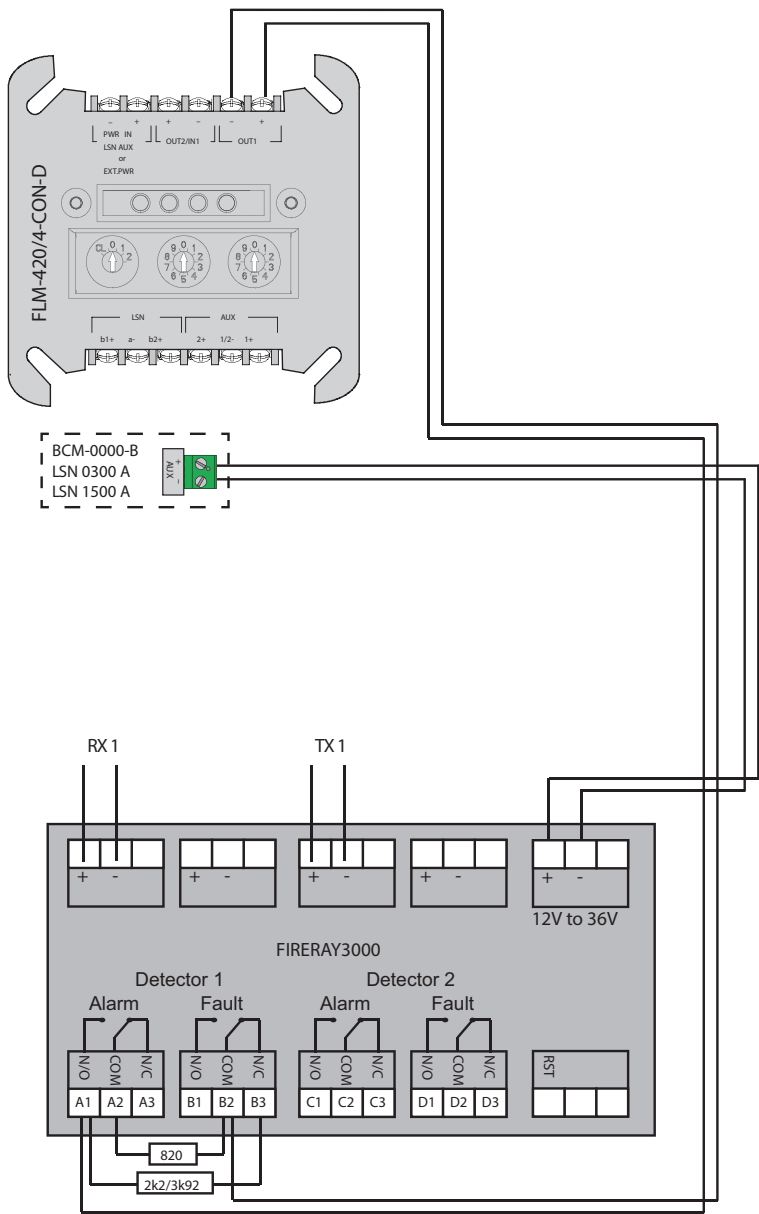
Fireray 50RV
Fireray 100RV

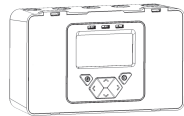




FIRERAY3000

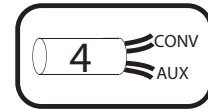
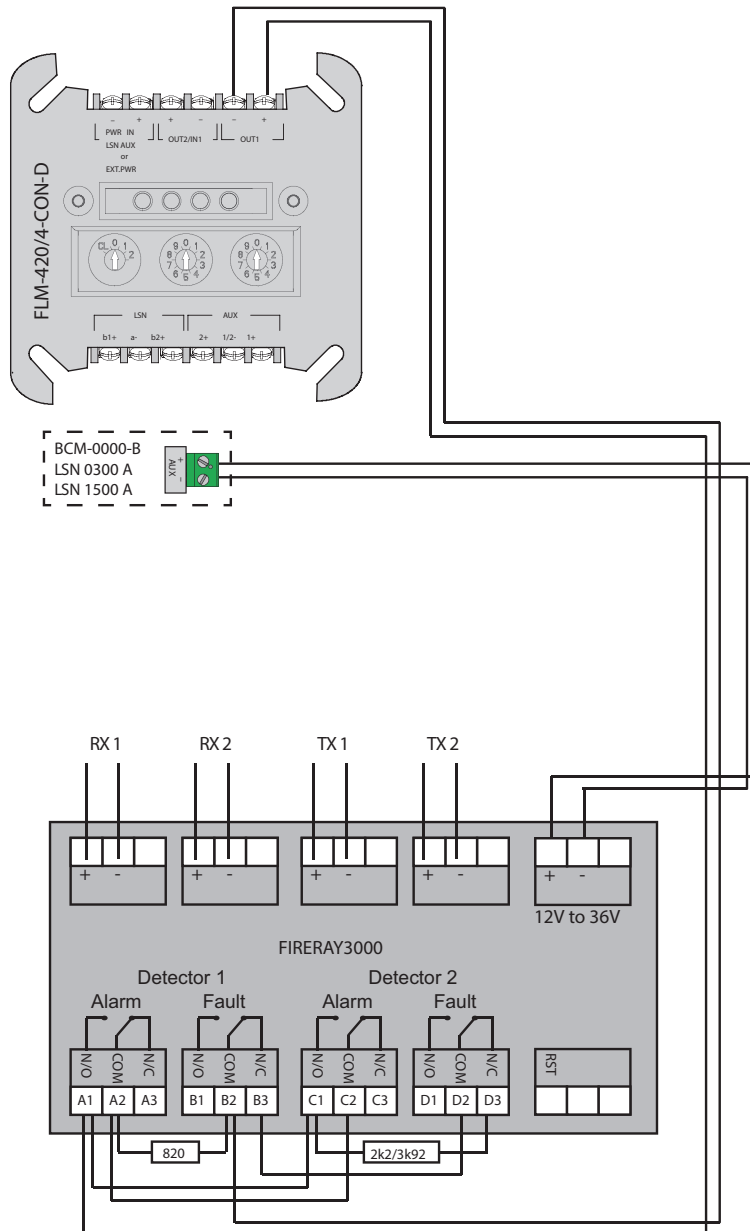
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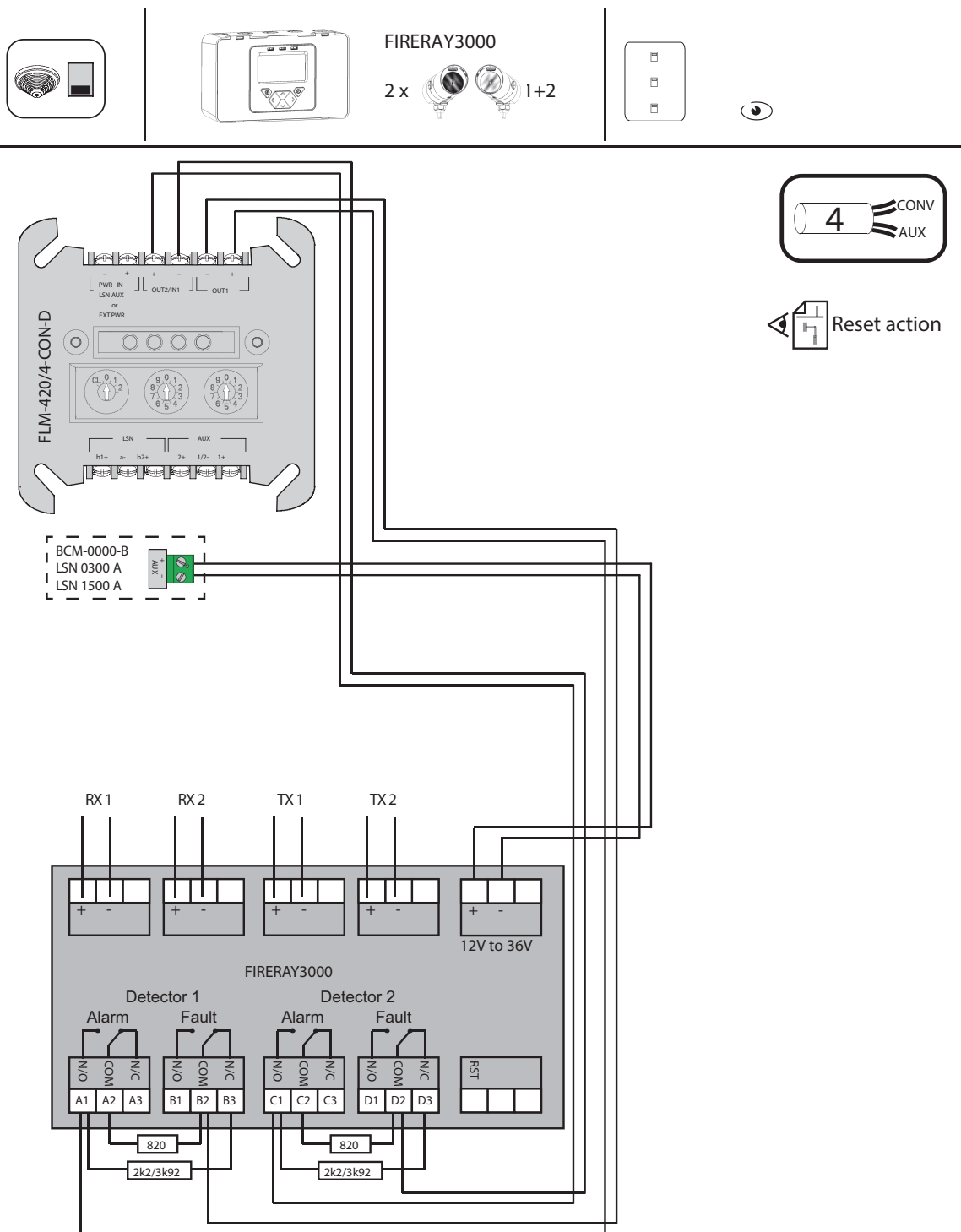




FIRERAY3000

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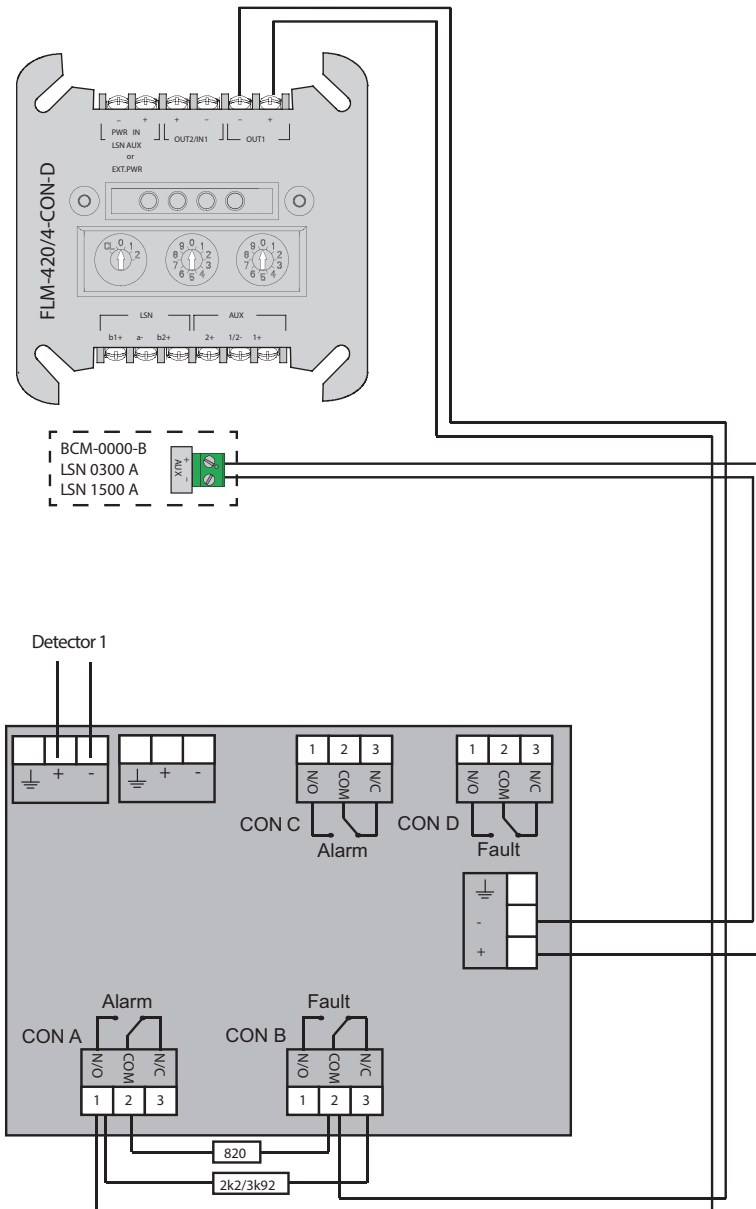






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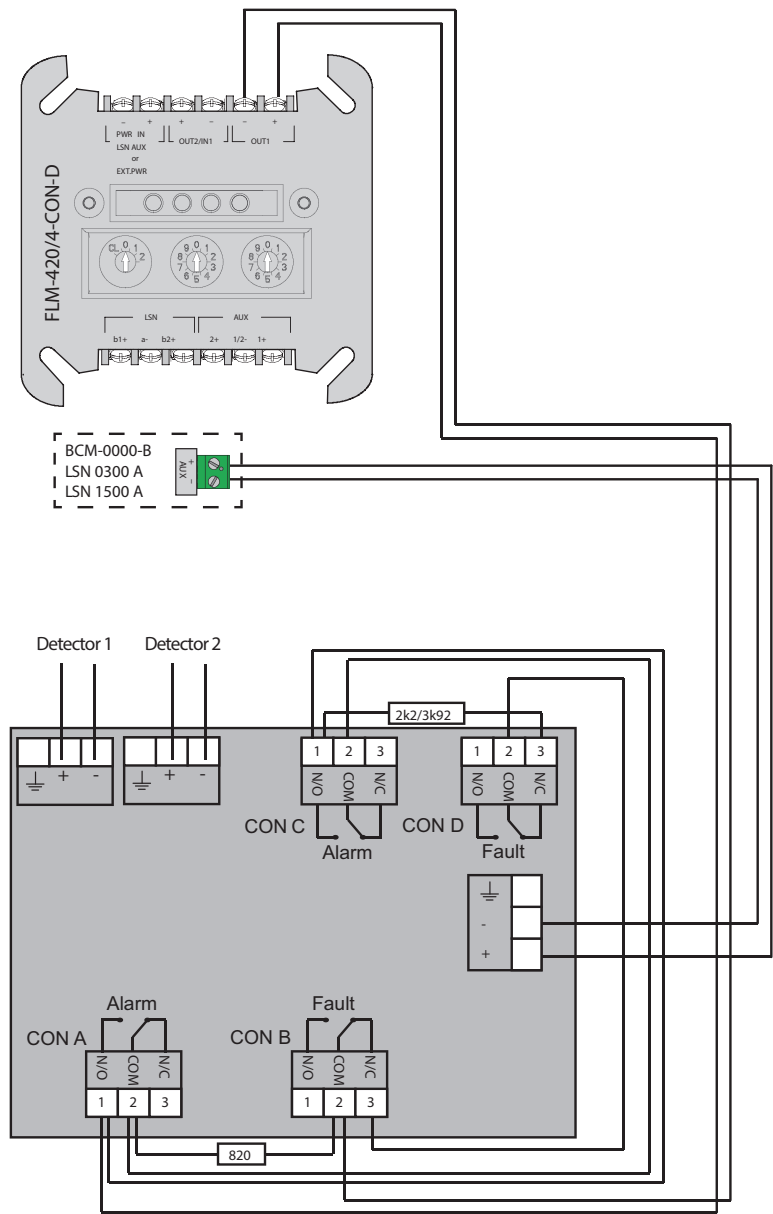
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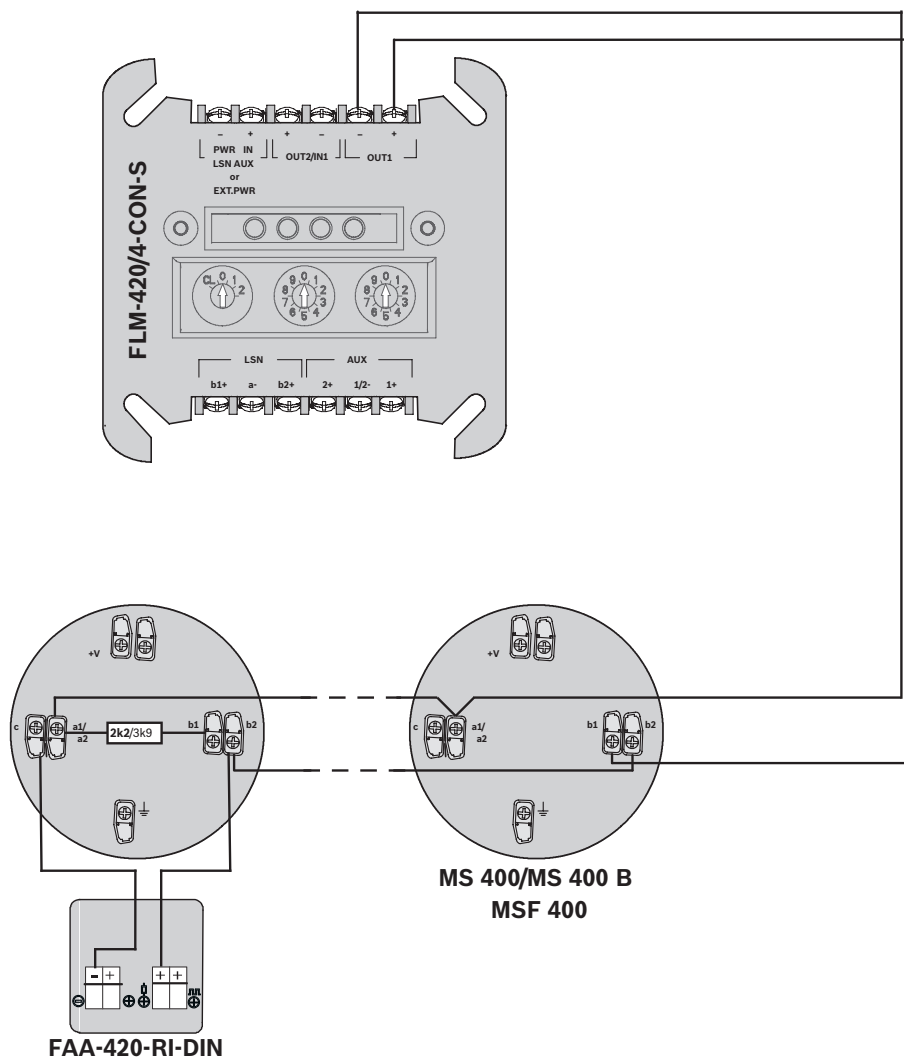
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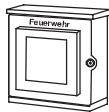
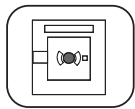
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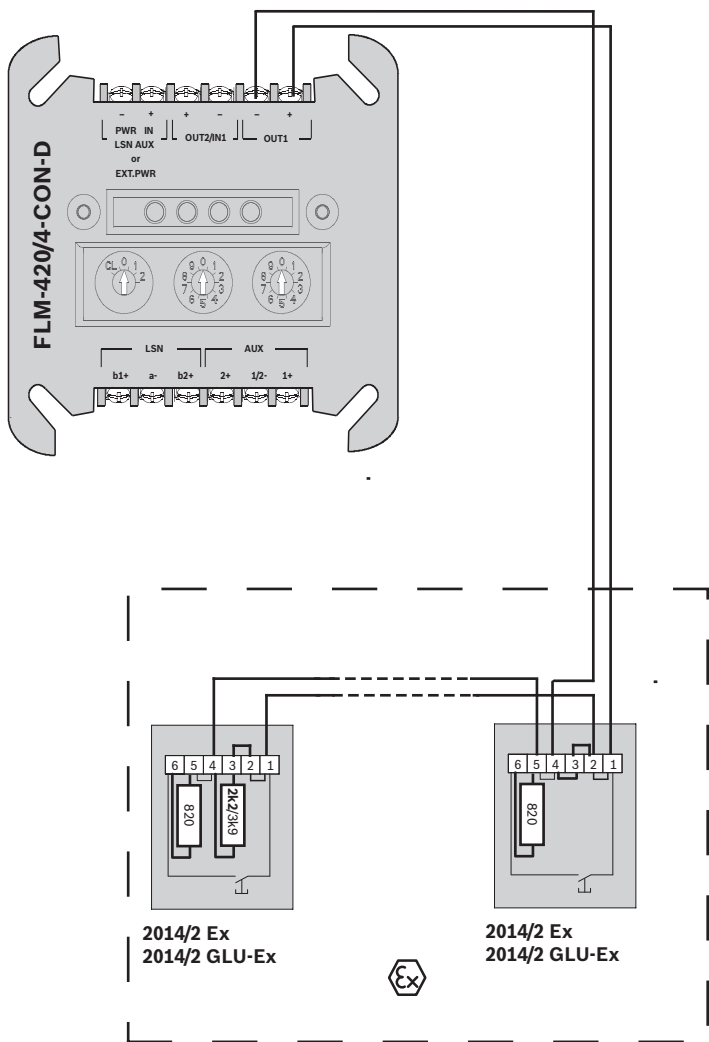
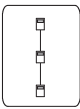


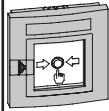
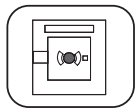
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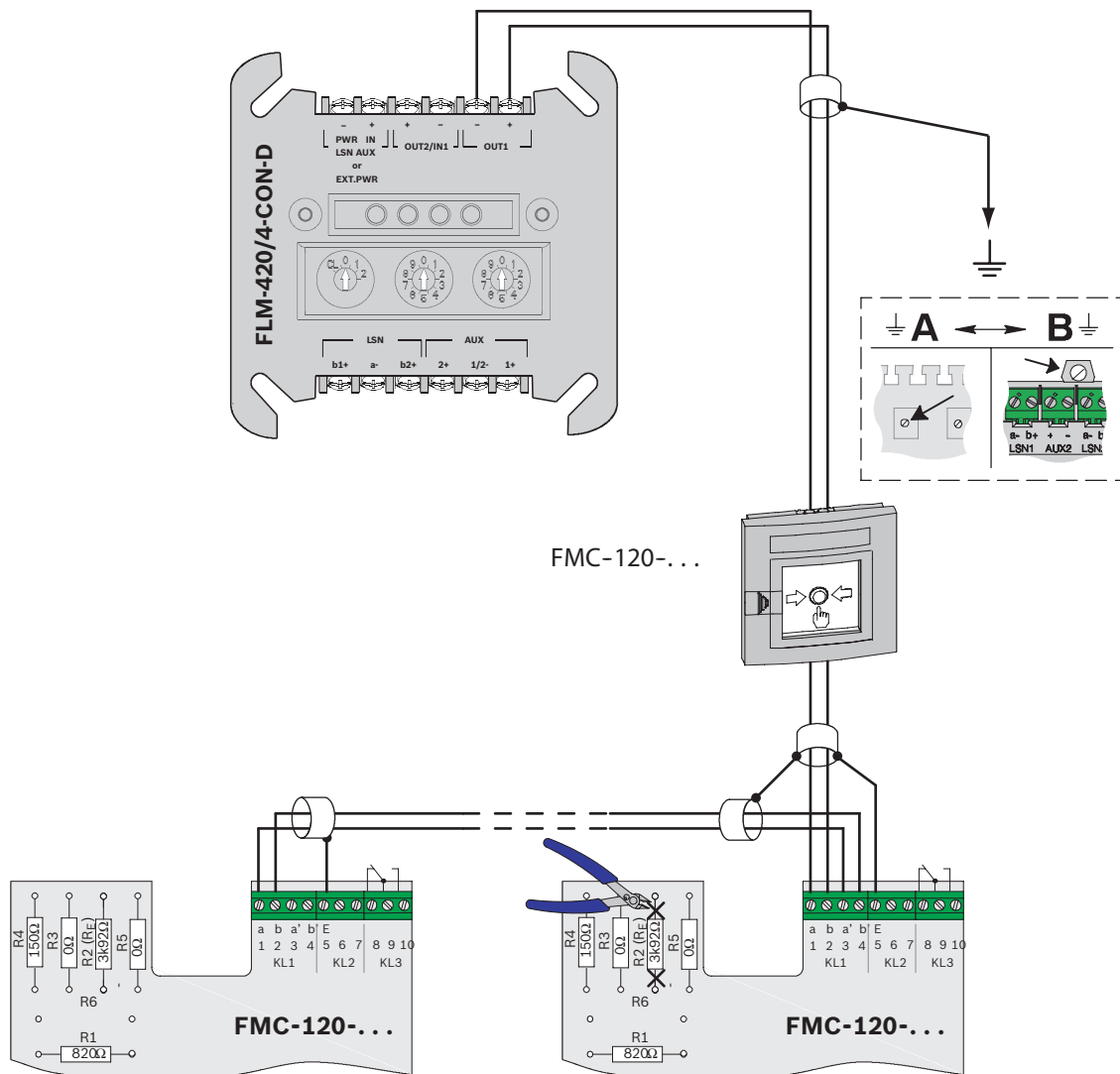
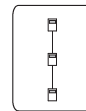


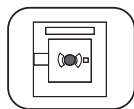
2014/2 Ex
2014/2 GLU-Ex



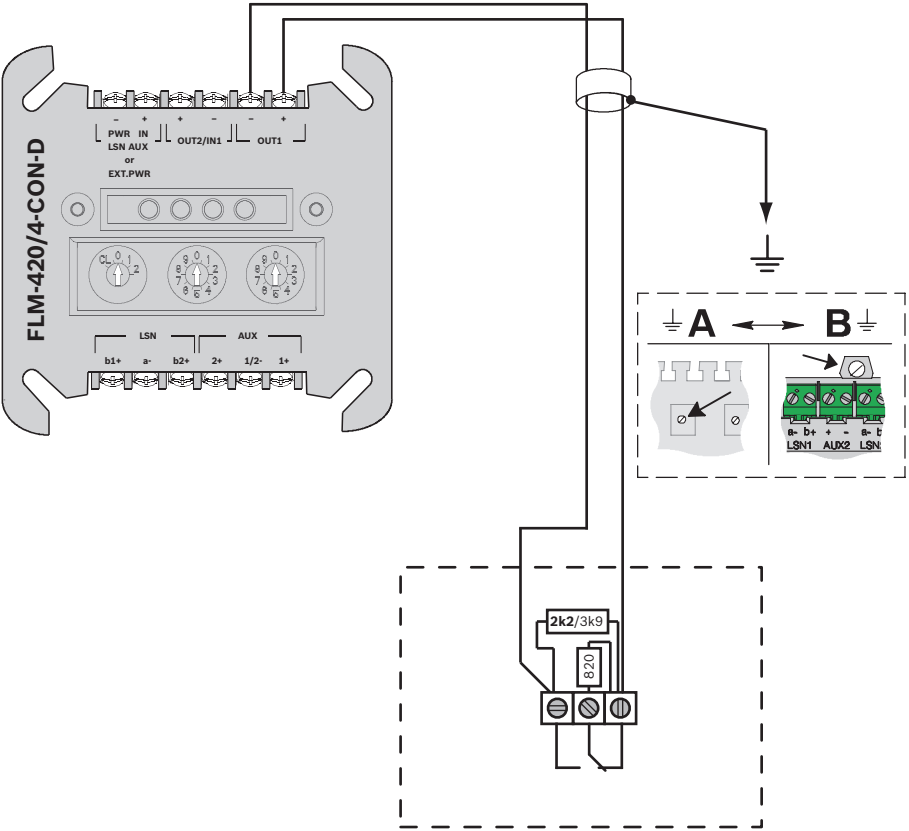
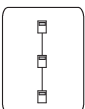


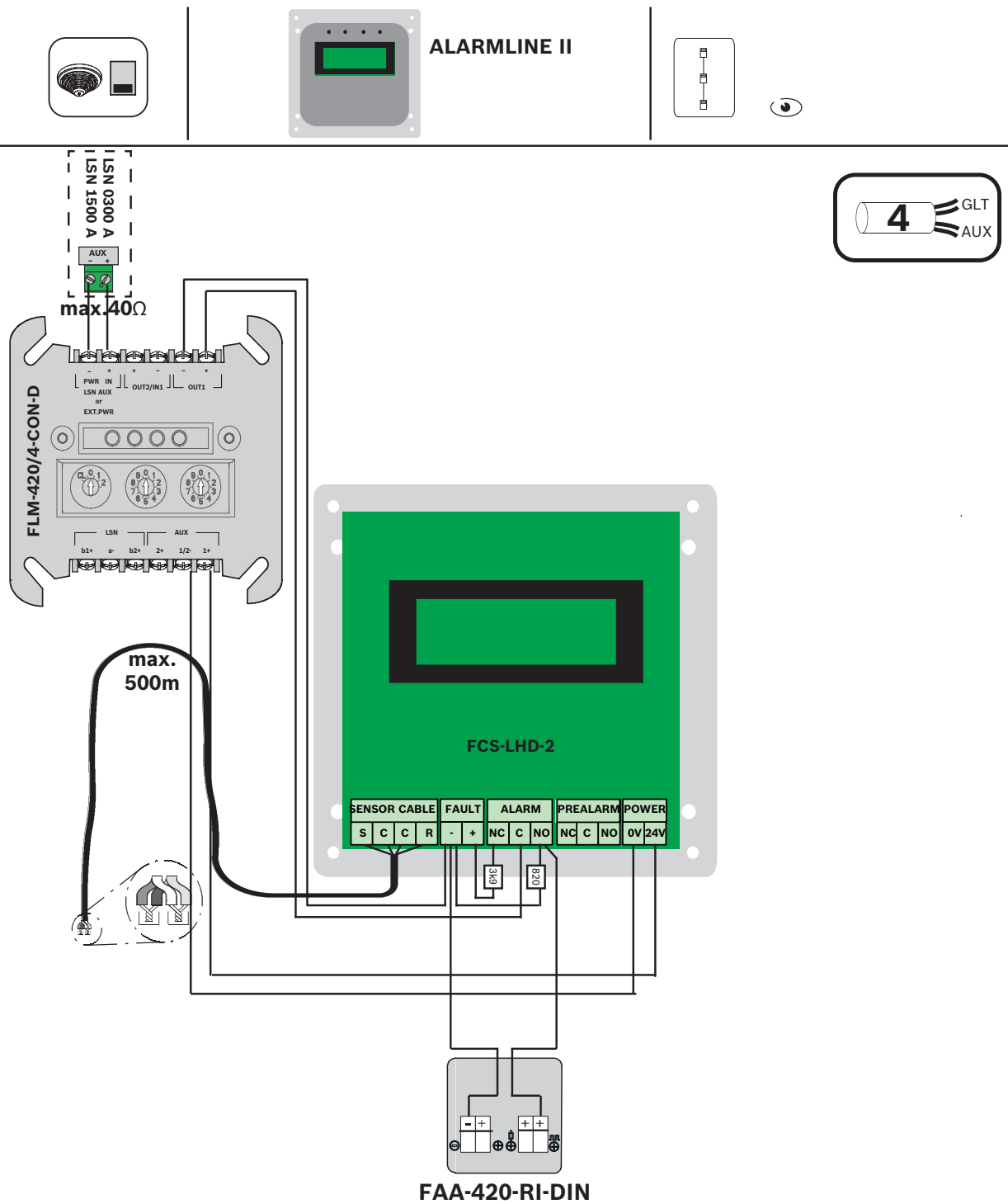
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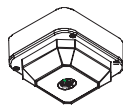




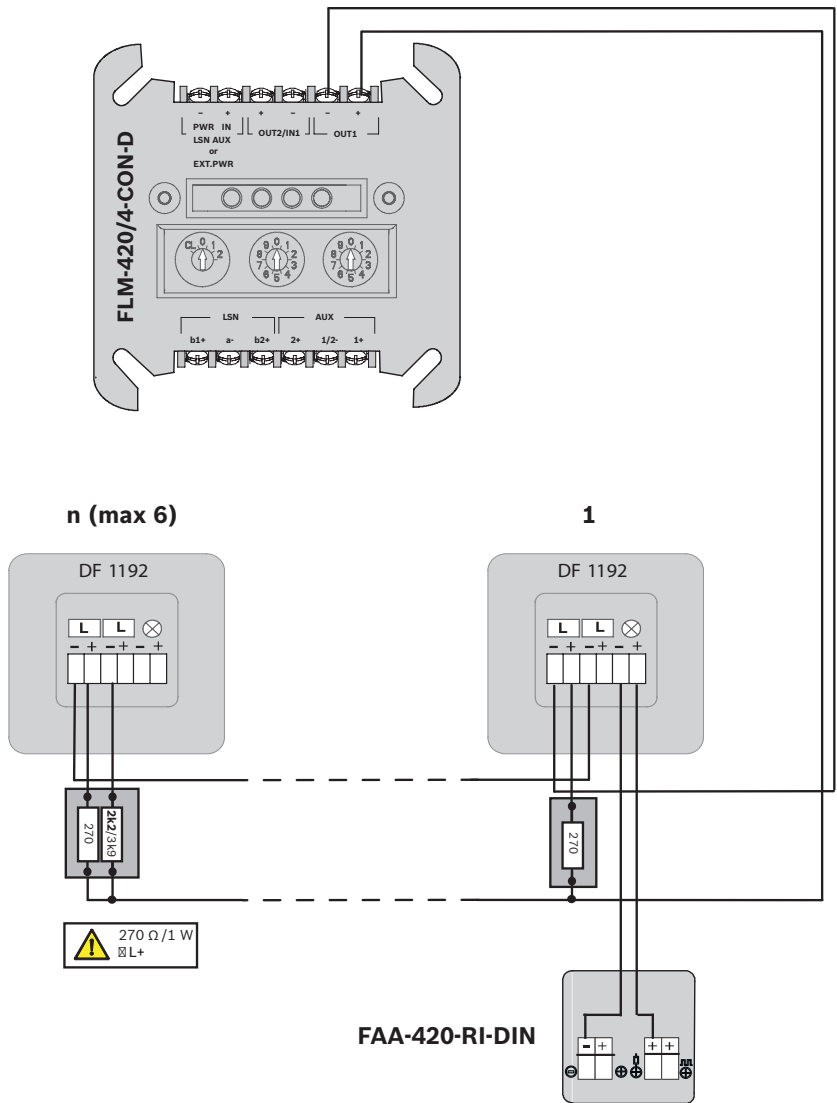
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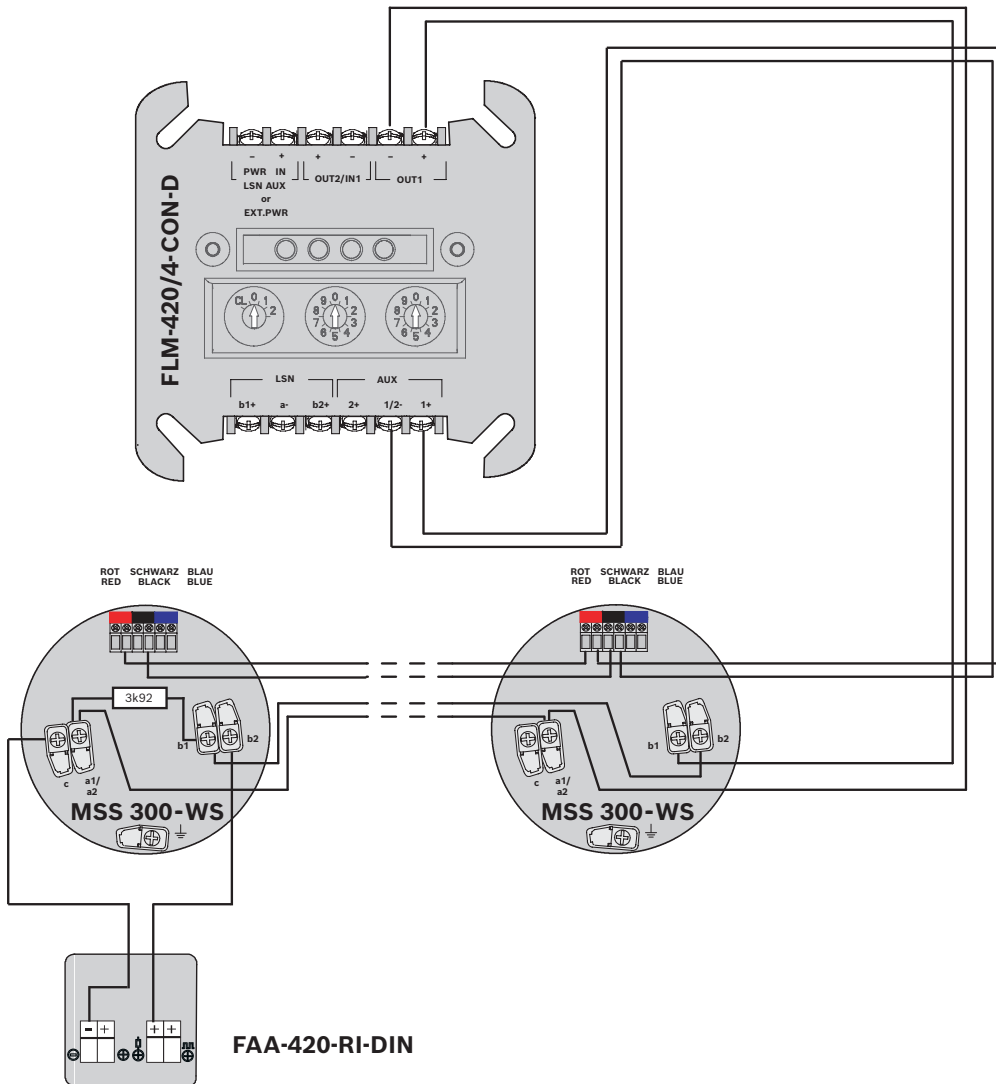


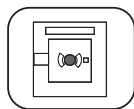




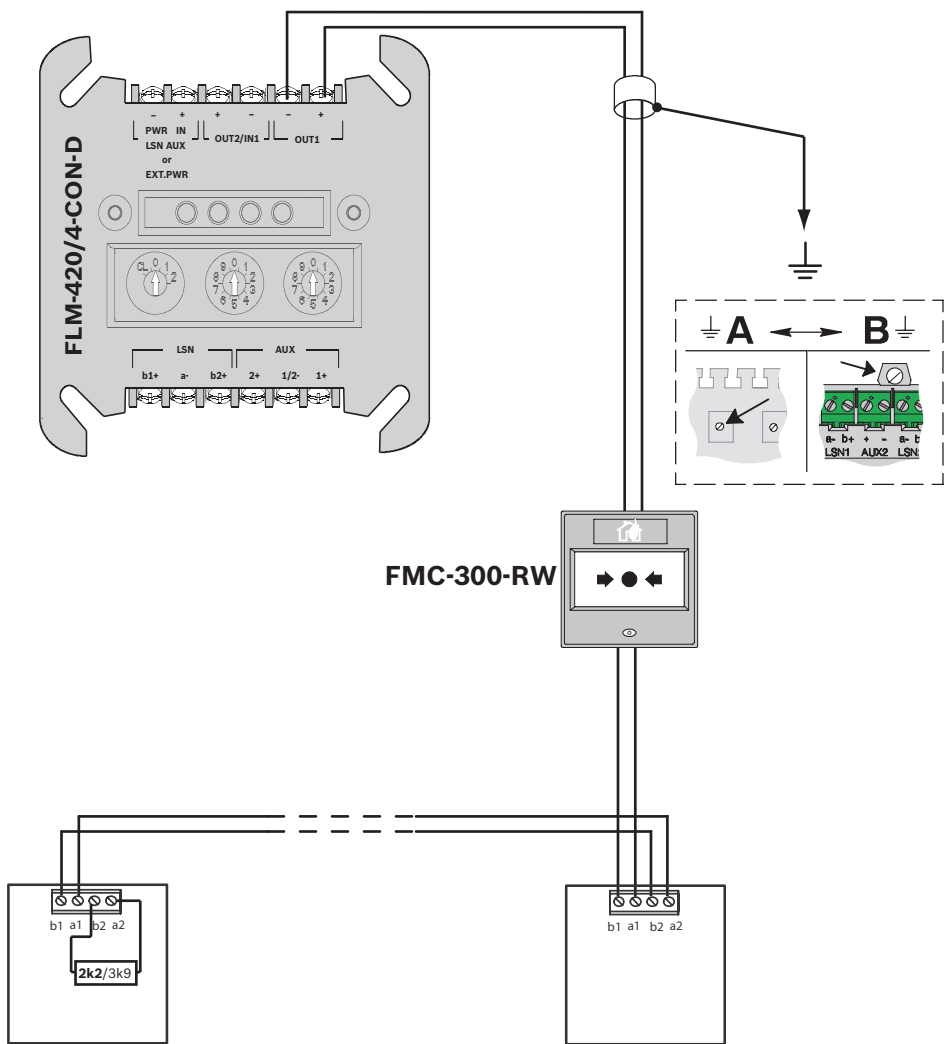
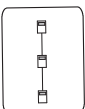
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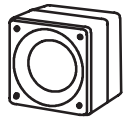
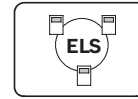
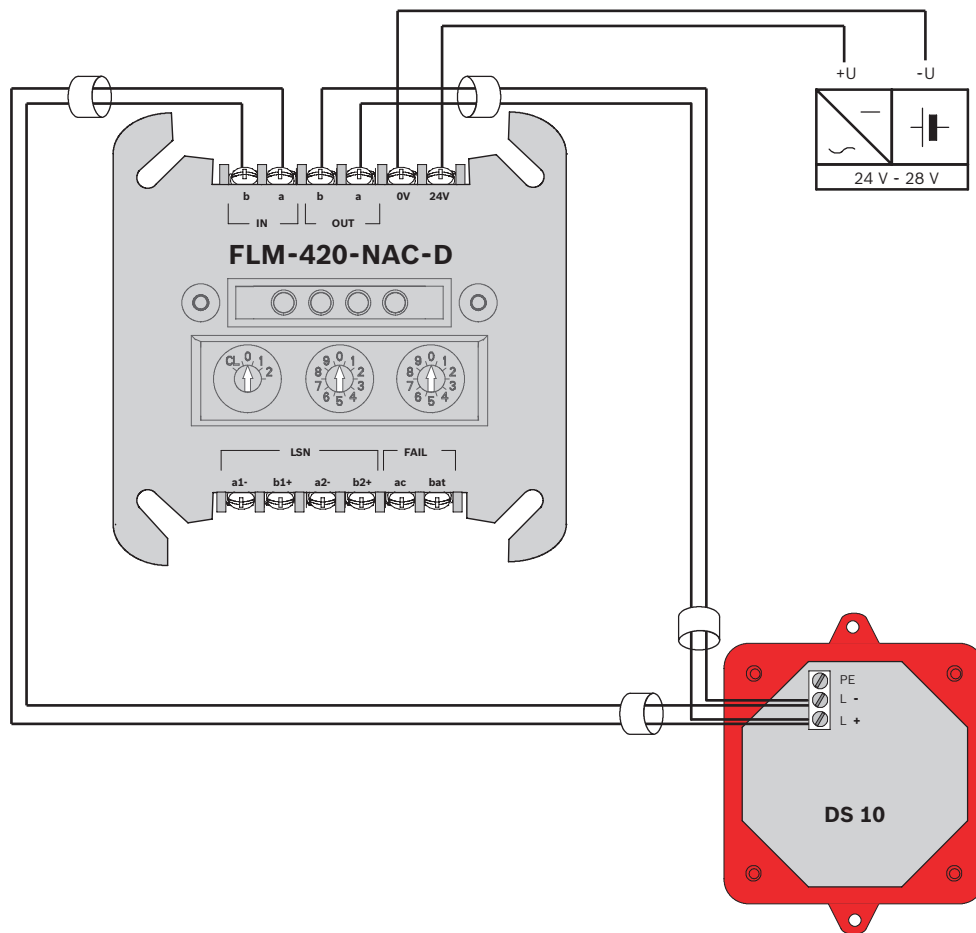
**MSS 300-WS**

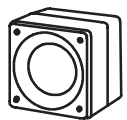


FMC-300-RW

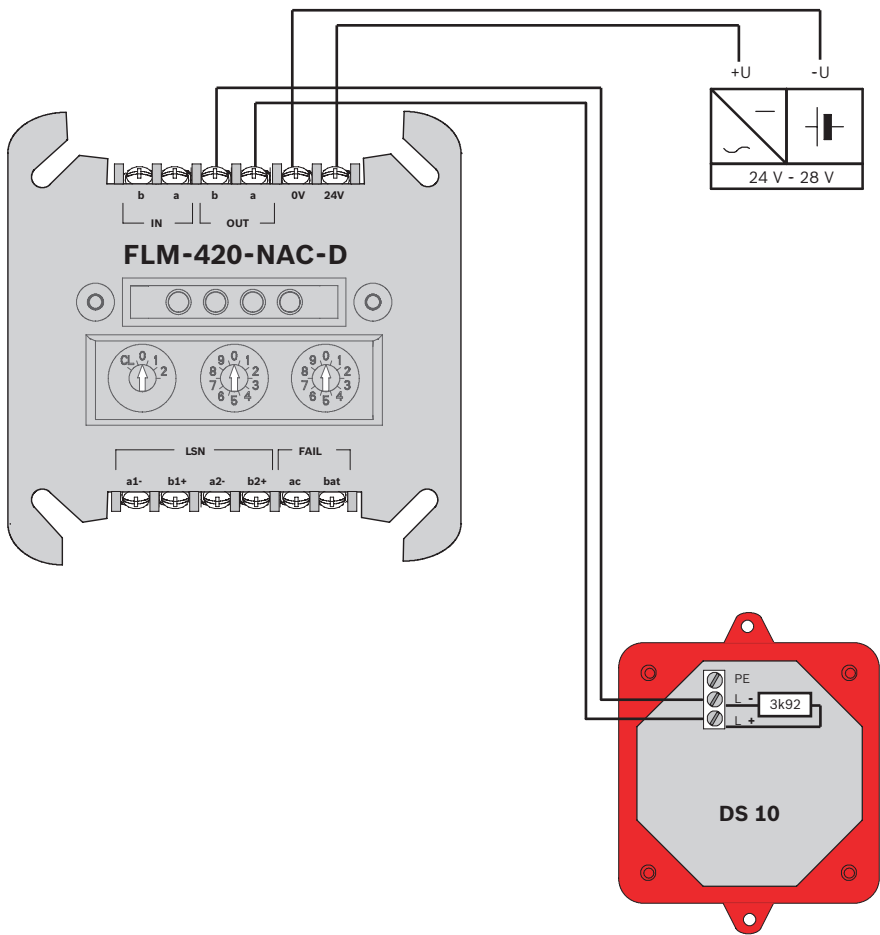
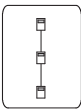


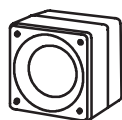
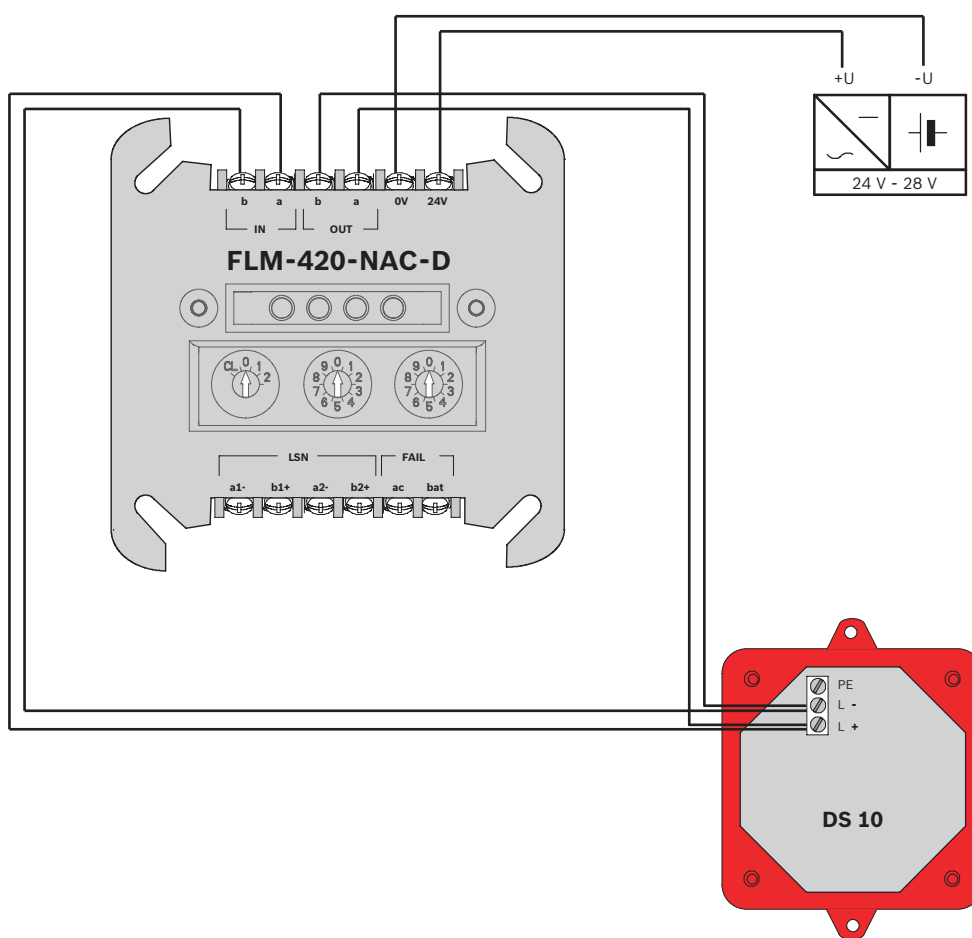
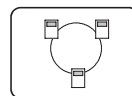
3.4.2 FLM-420-NAC-D/S

**DS 10****VdS 2489**



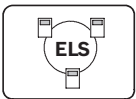
DS 10



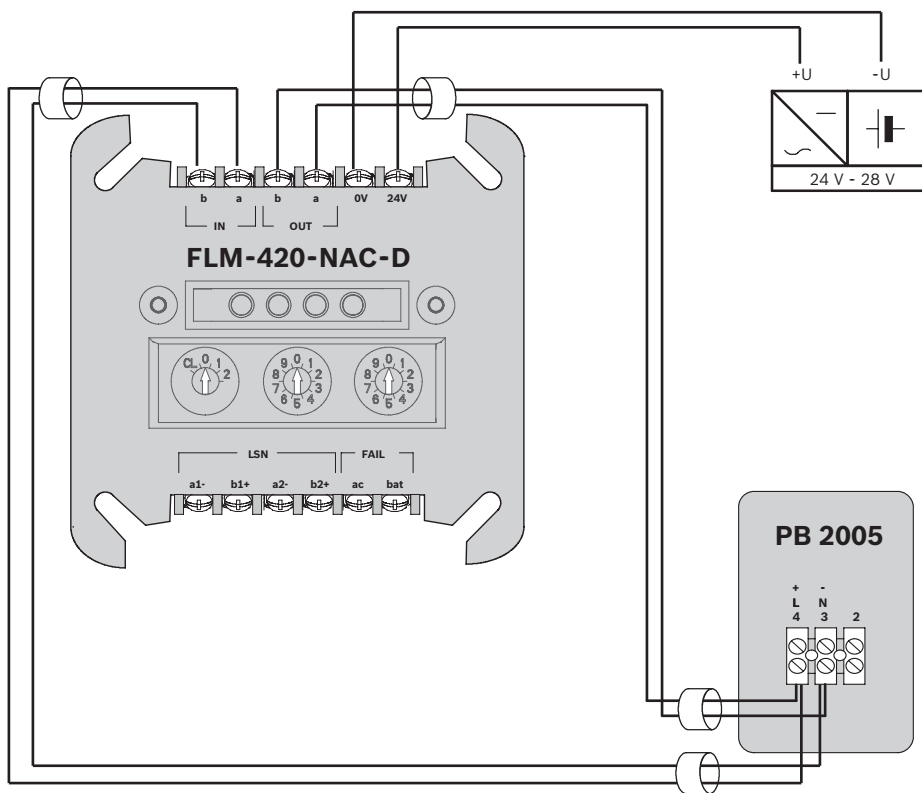
**DS 10**

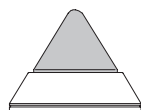
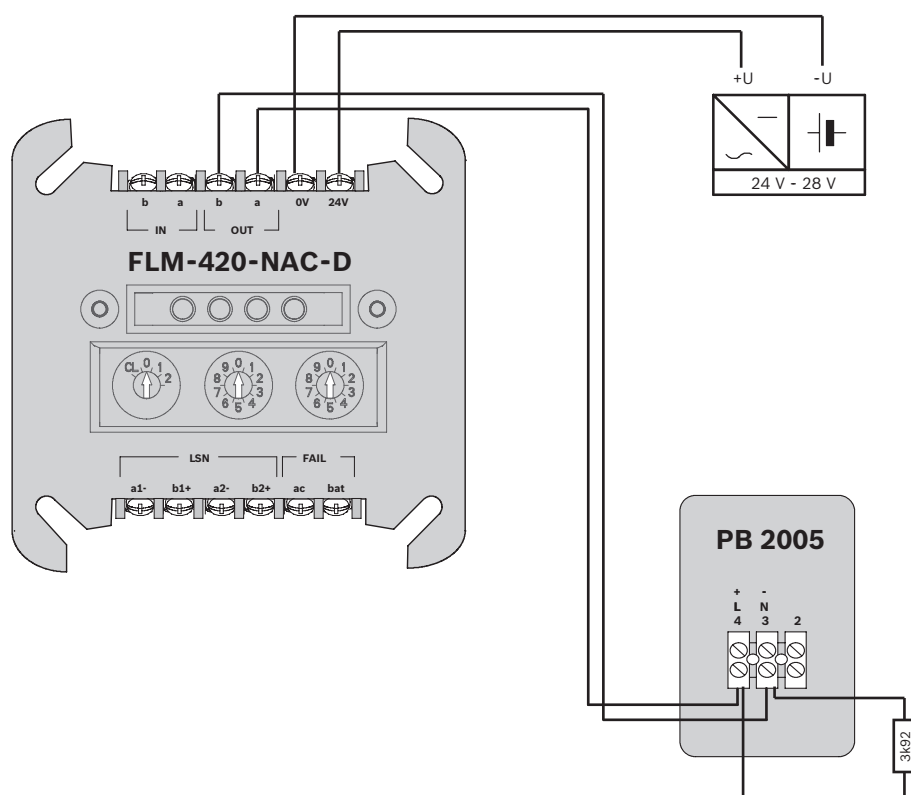
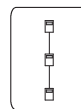


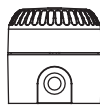
PB 2005



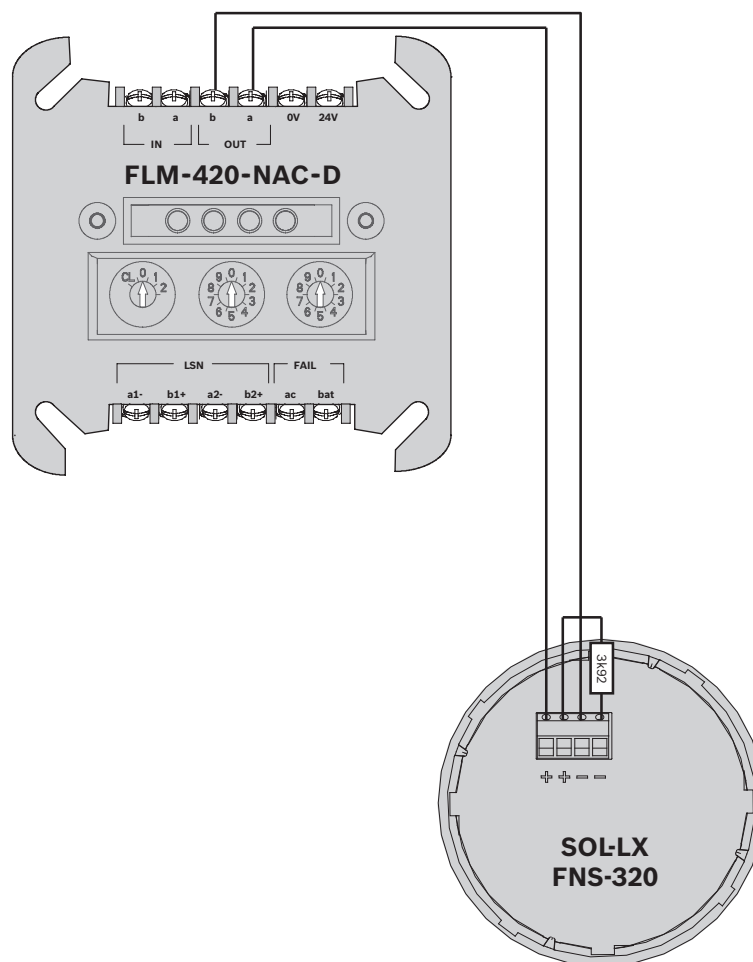
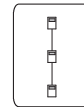
VdS 2489



**PB 2005**

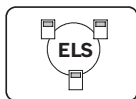


**SOL-LX
FNS-320**

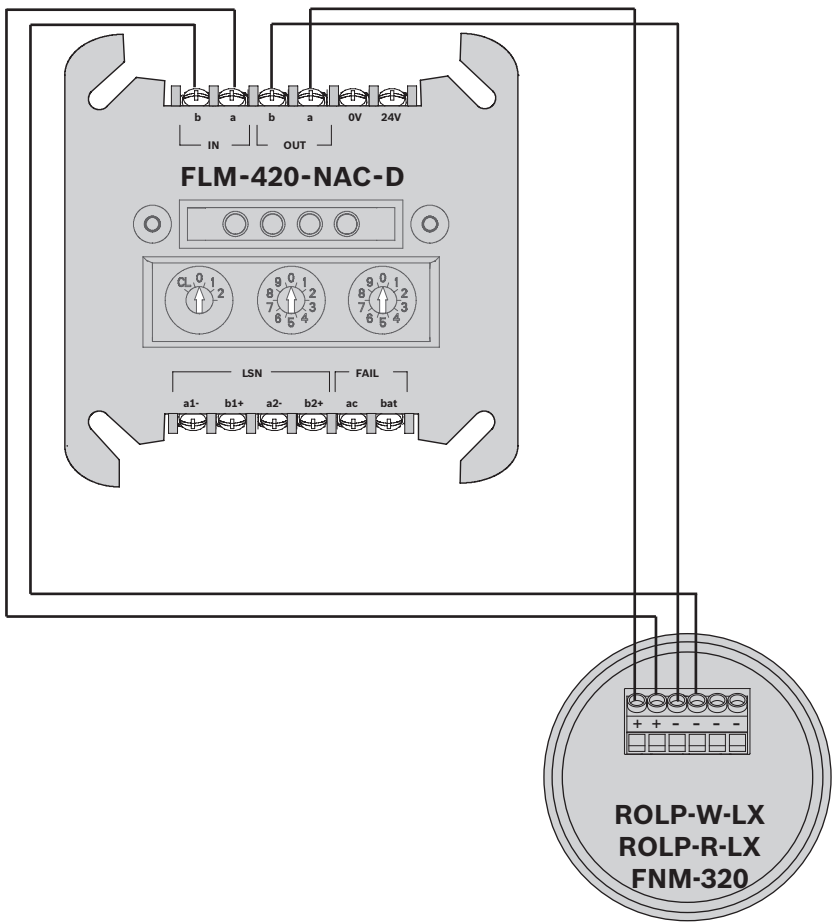




ROLP-W-LX
ROLP-R-LX
FNM-320

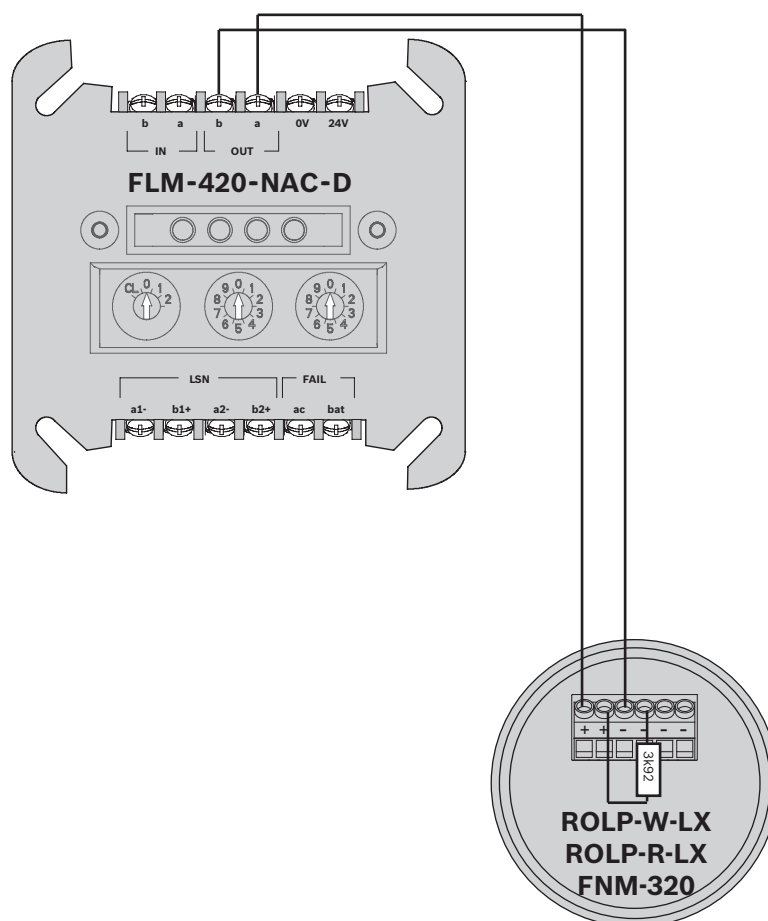
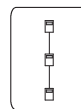


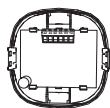
VdS 2489



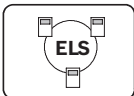


ROLP-W-LX
ROLP-R-LX
FNM-320

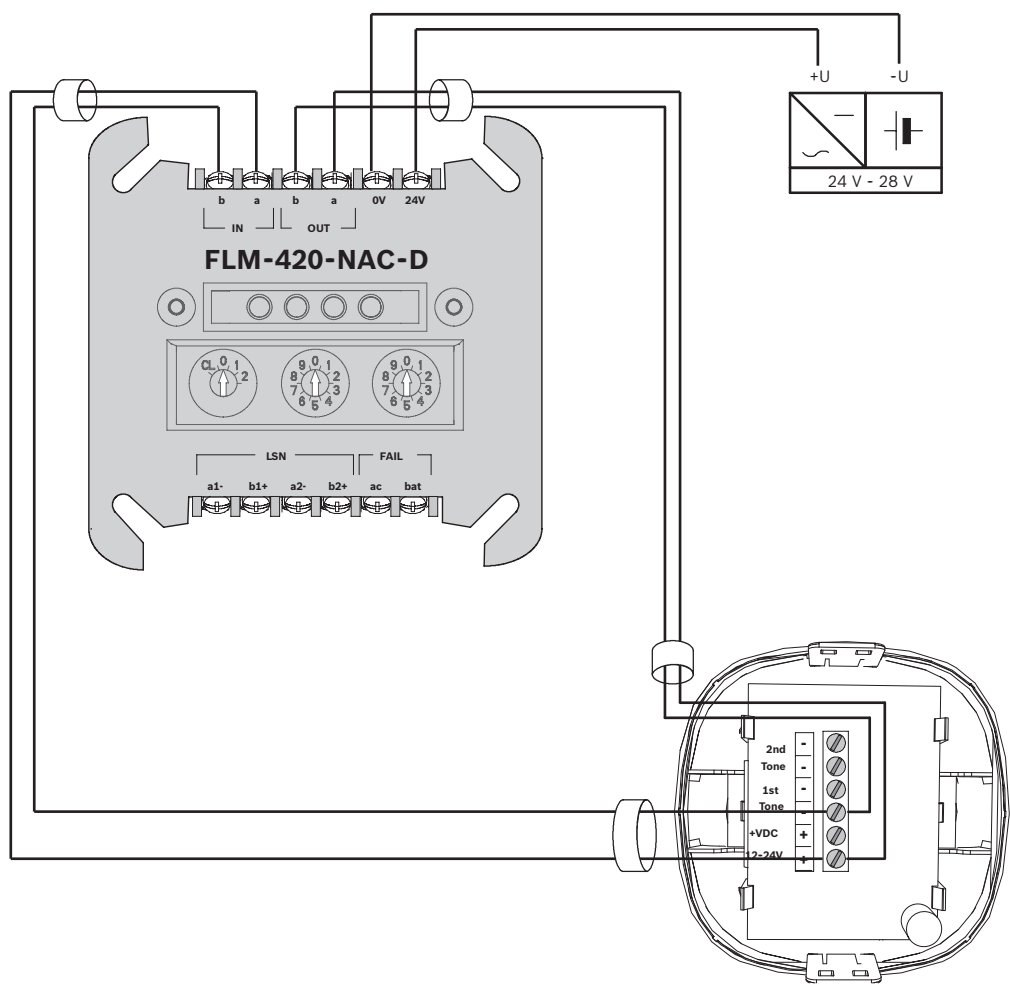


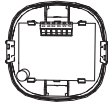
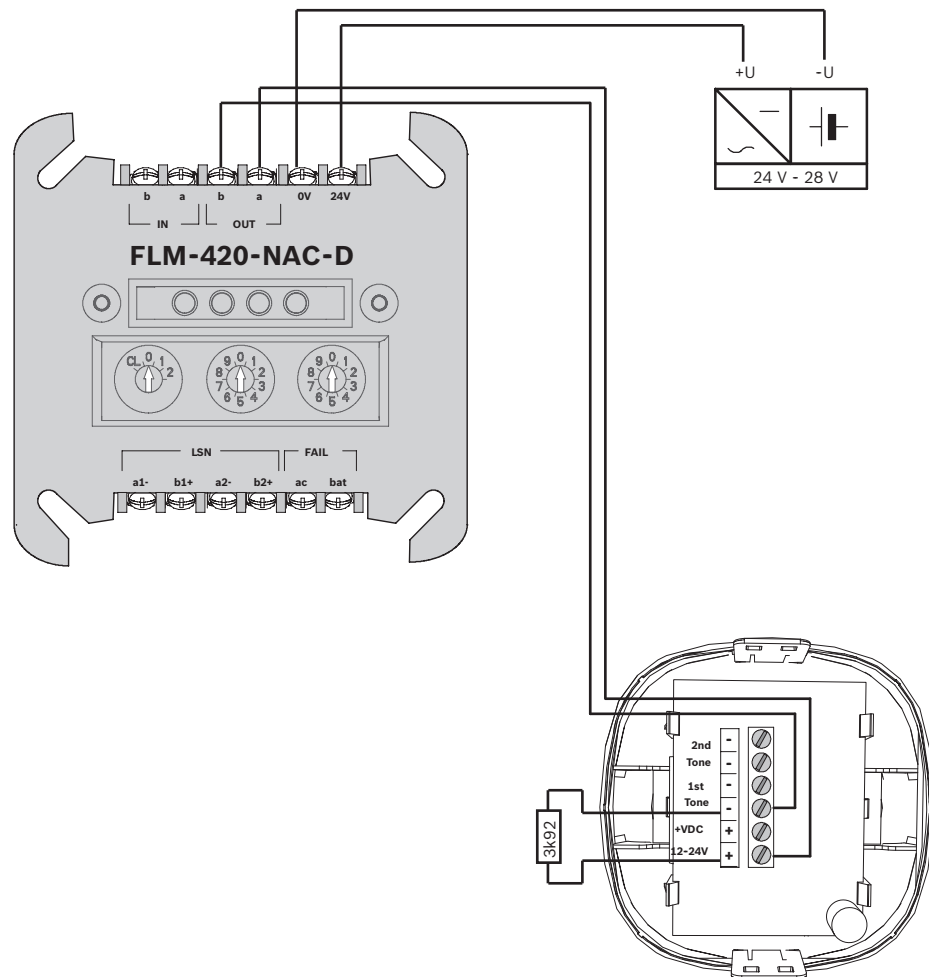
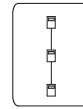


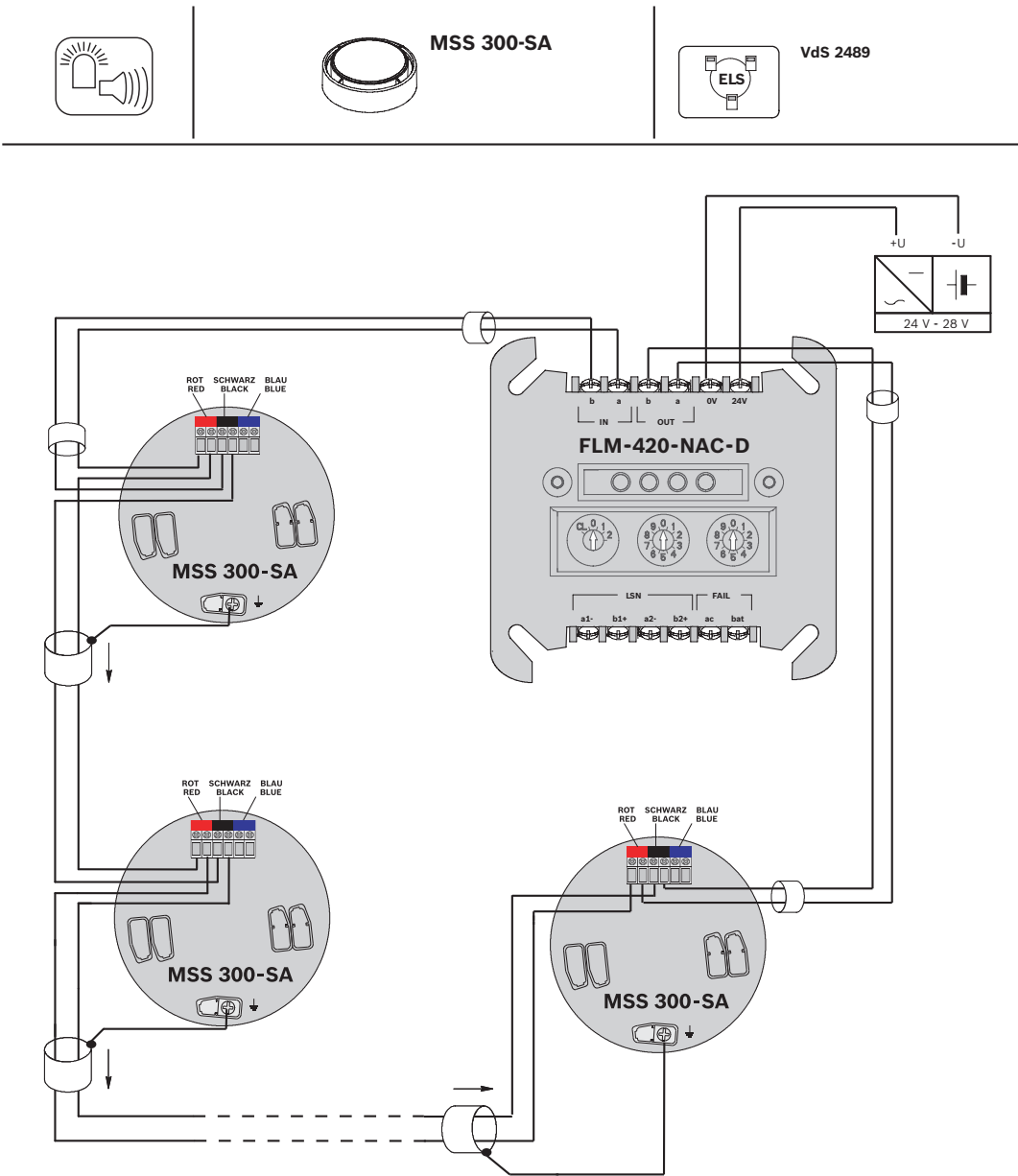
FNM-320V-A / -B

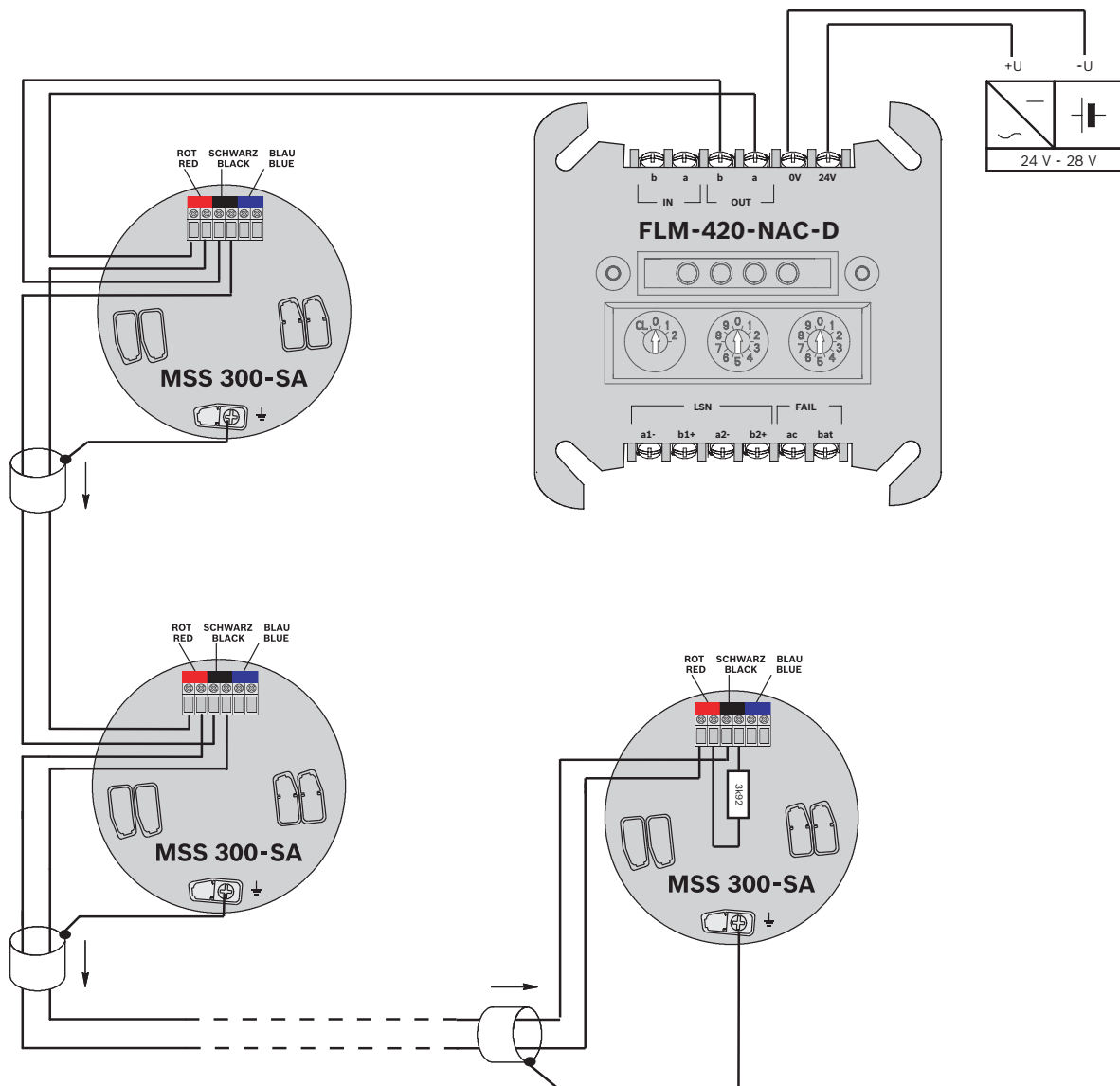
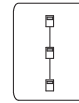


VdS 2489



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



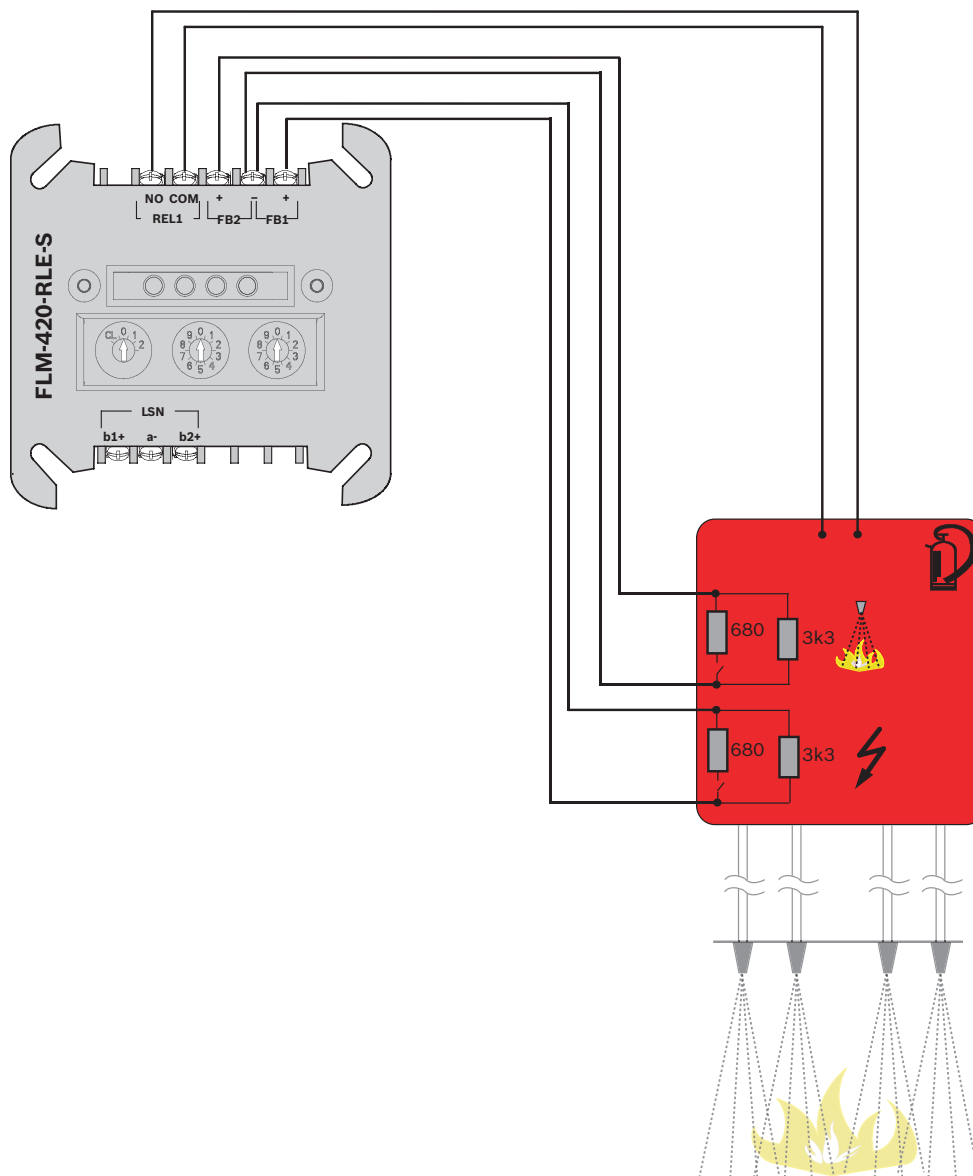
**MSS 300-SA**

3.4.3

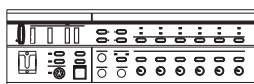
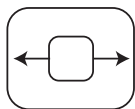
FLM-420-RLE-S



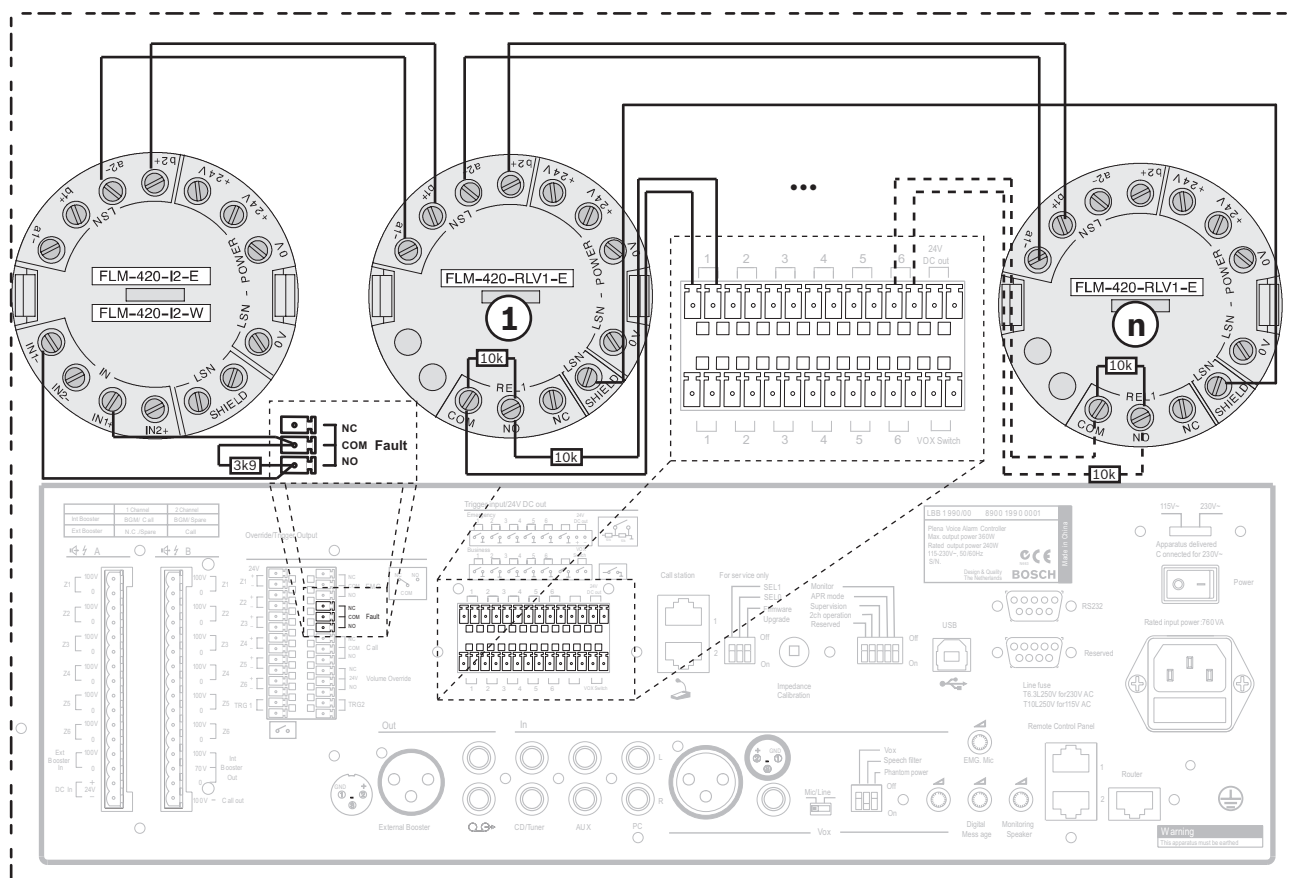
VdS 2496:2005-09



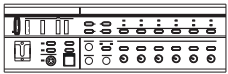
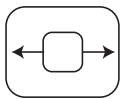
3.4.4 FLM-420-RLV1-E



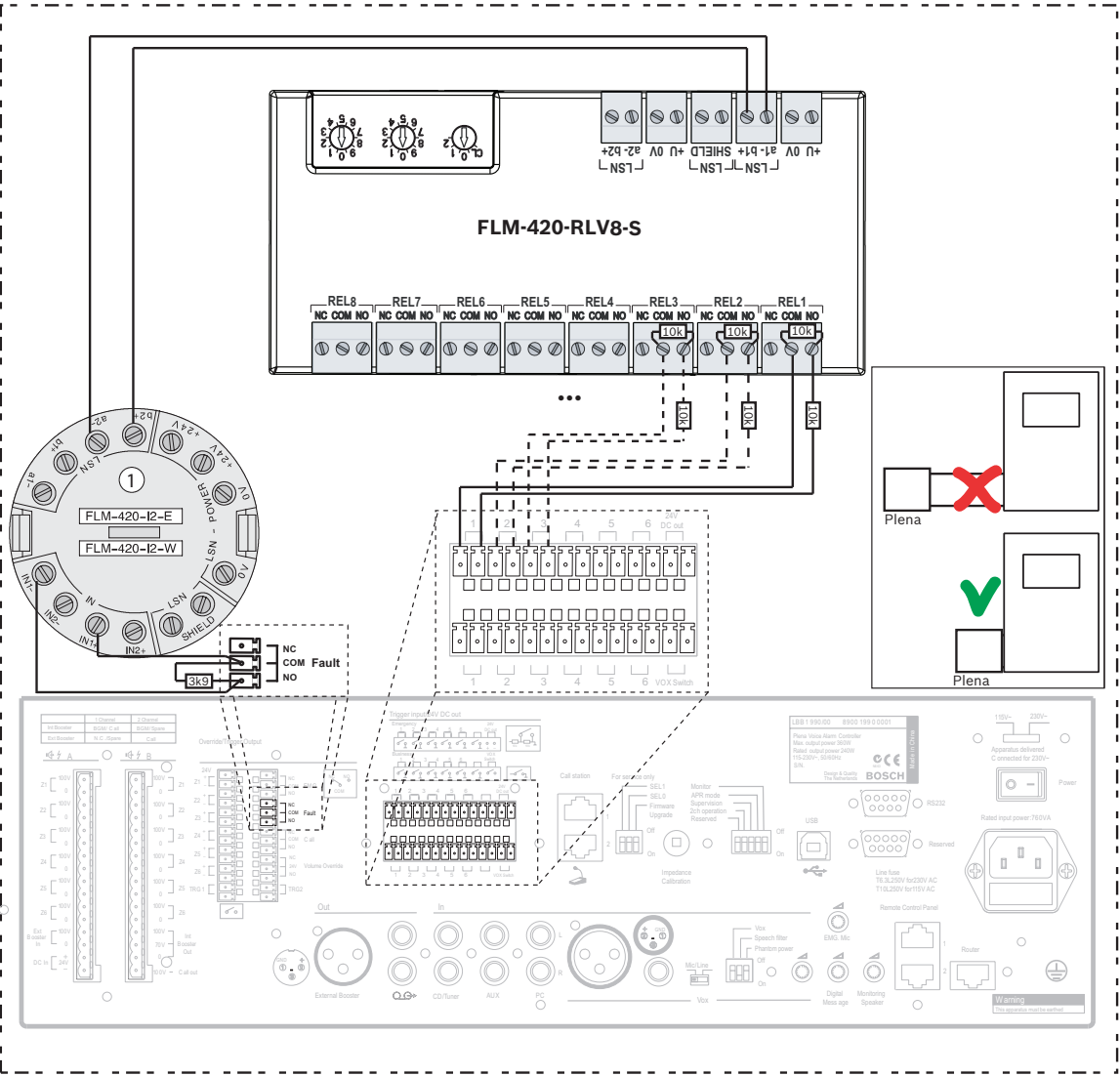
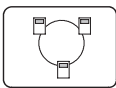
Plena



3.4.5 FLM-420-RLV8-S

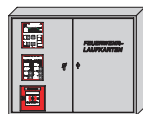


Plena



3.4.6

FMF-ADP-FBF/FMF-ADP-TTY



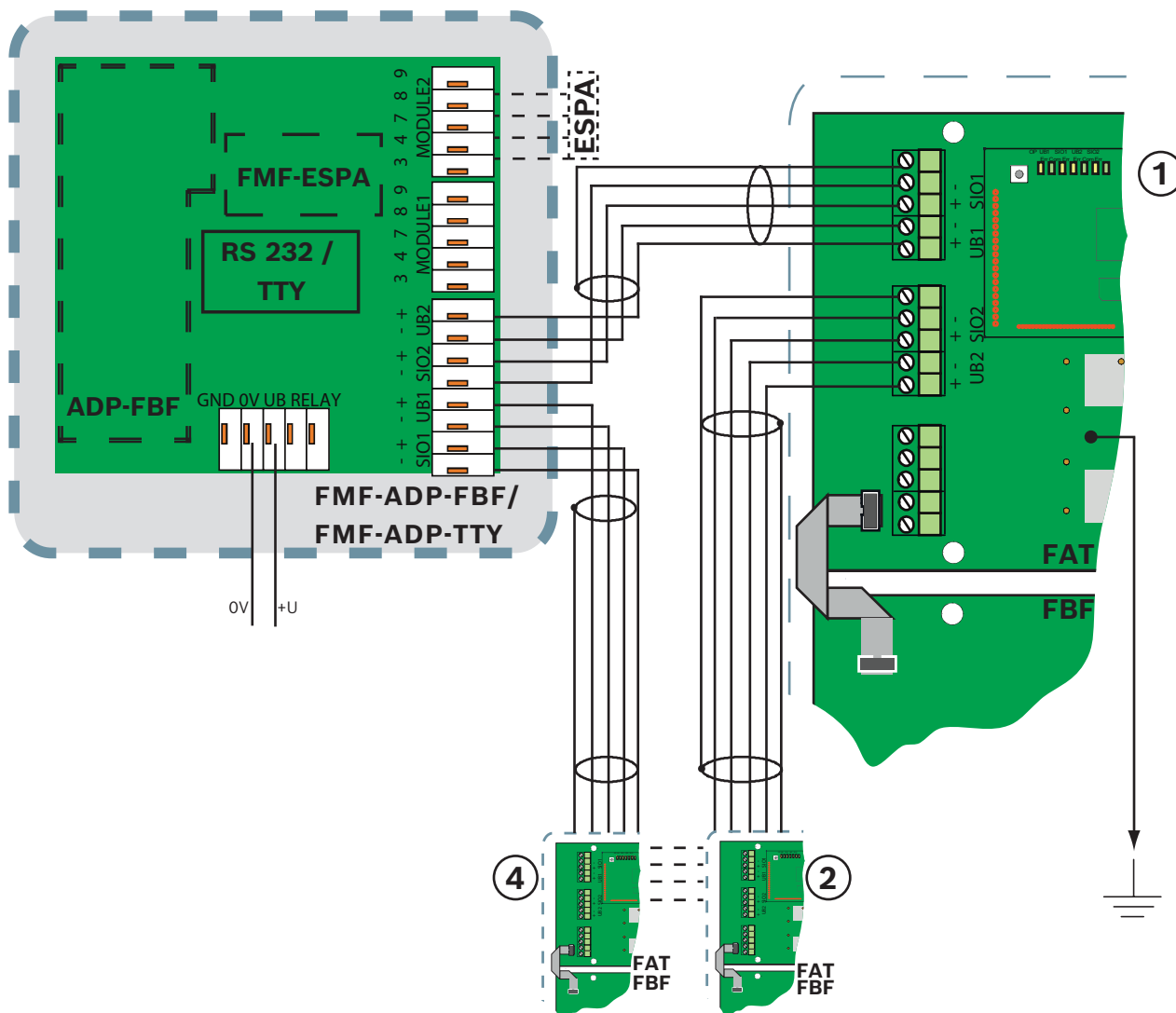
FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT

FMF-FIBS-A4/-A3

FMF-ADP

ELS VdS 2489

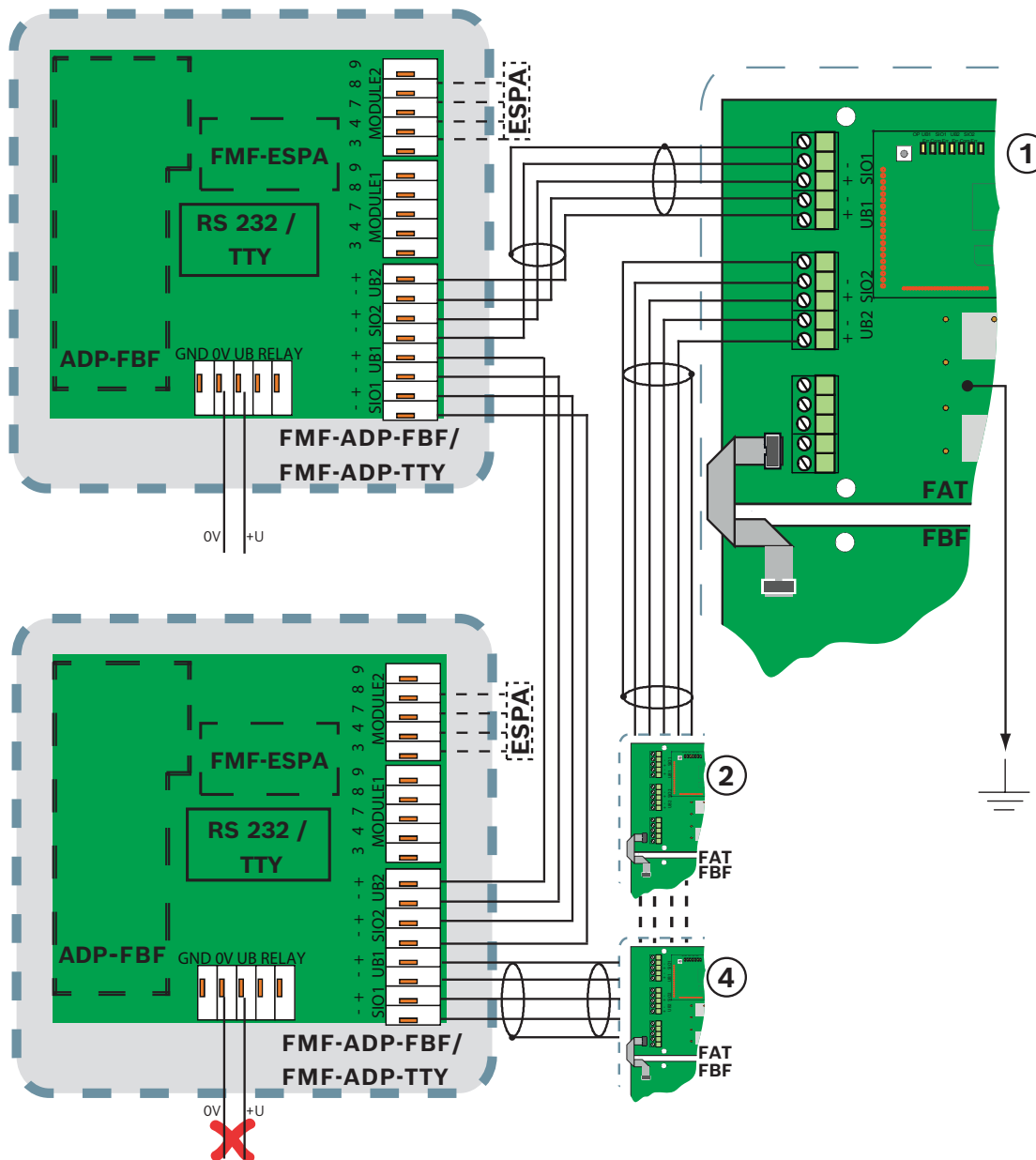




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



3.5

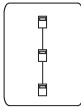
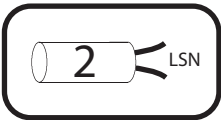
EOL



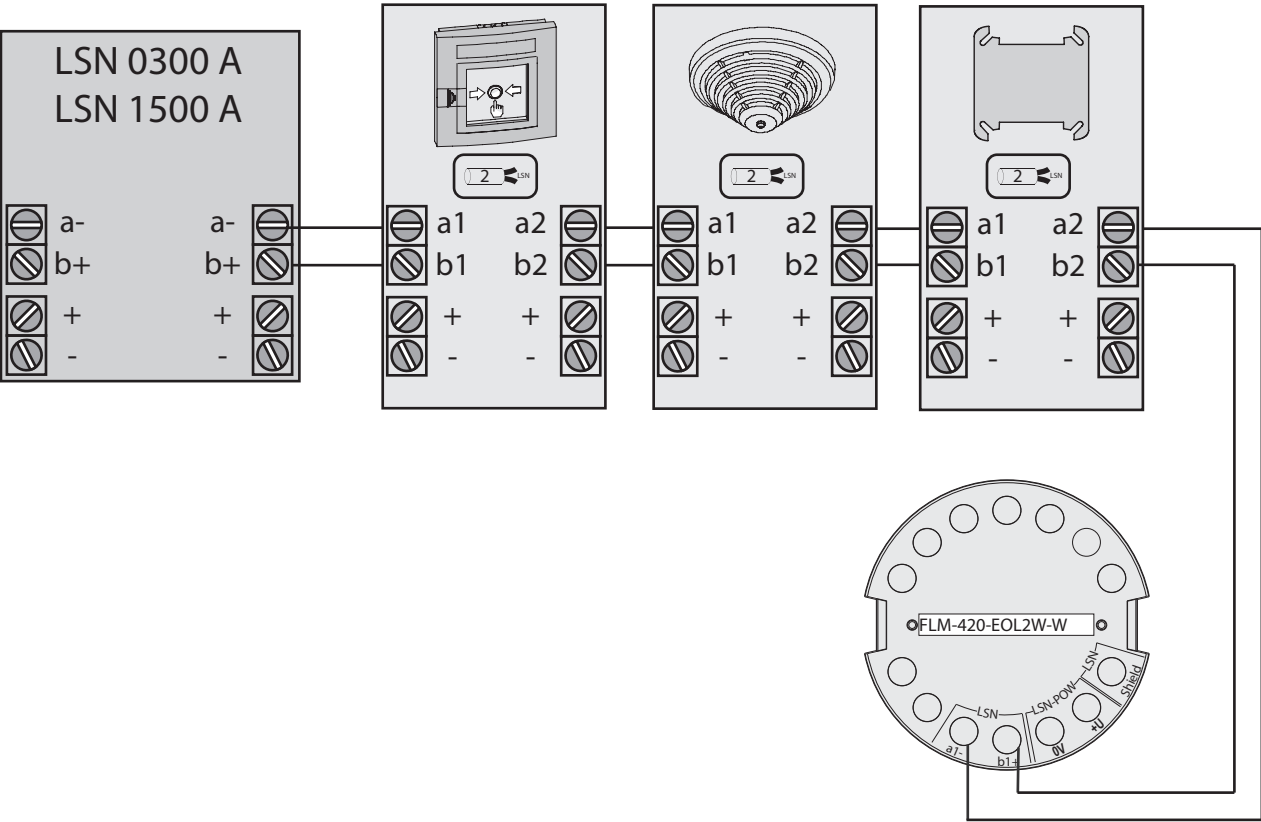
LSN 0300 A, page 180

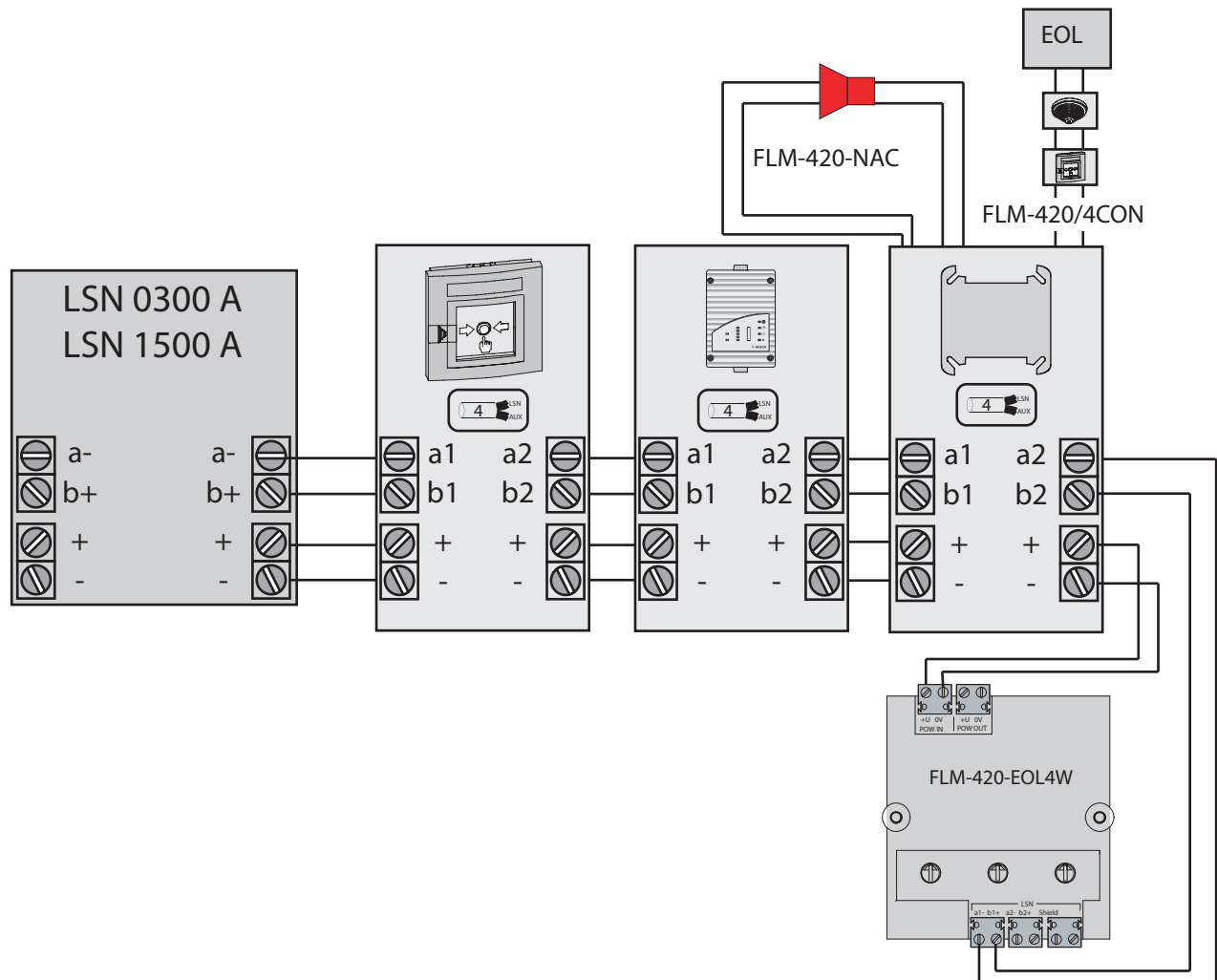
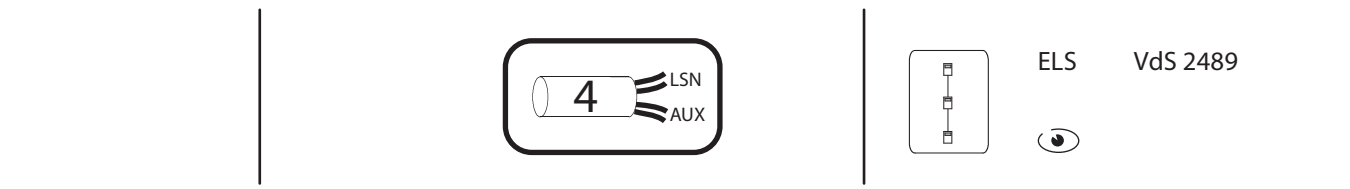
FLM-420/4-CON-S/D, page 222

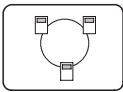
3.5.1 LSN 0300 A



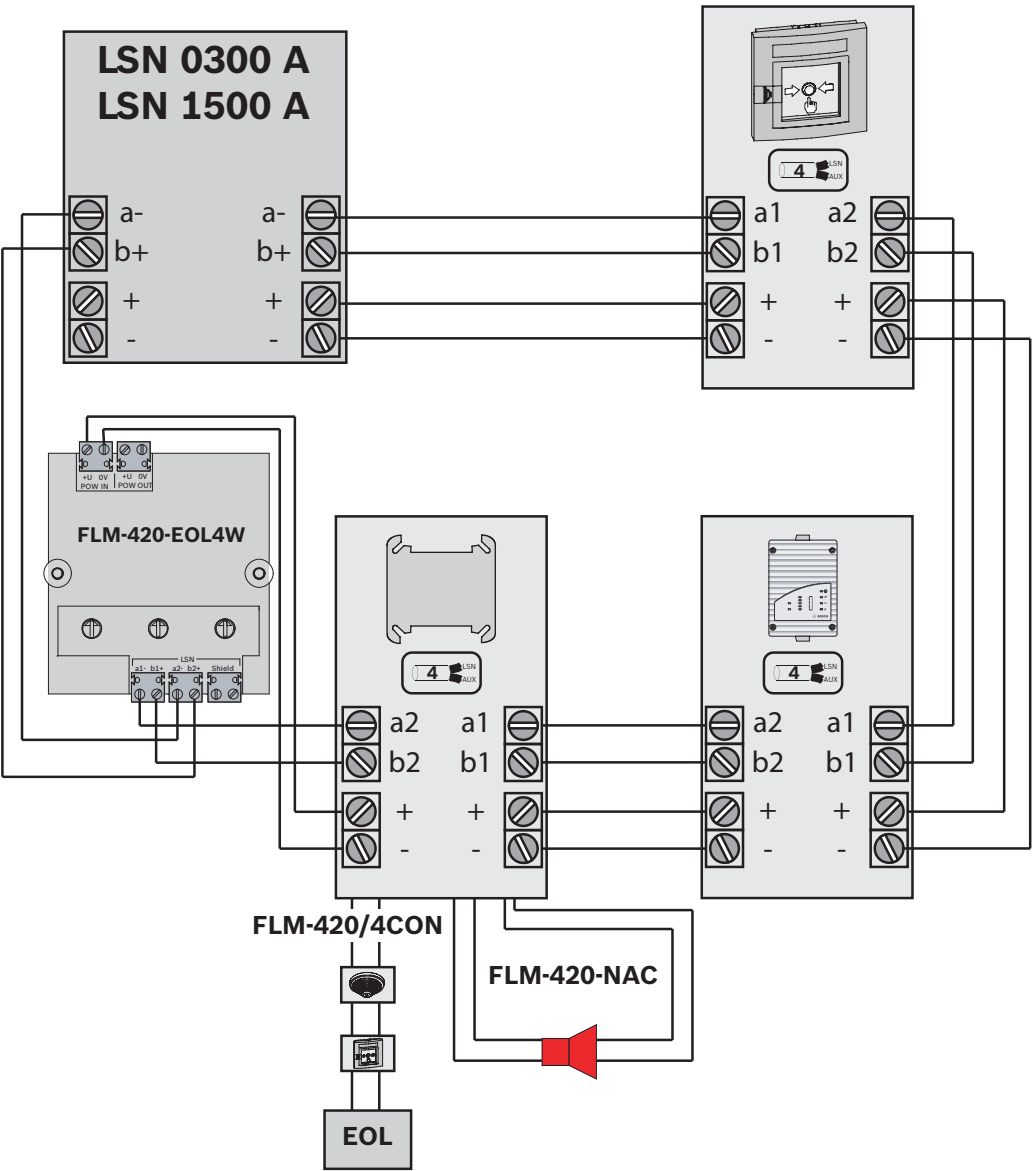
ELS VdS 2489







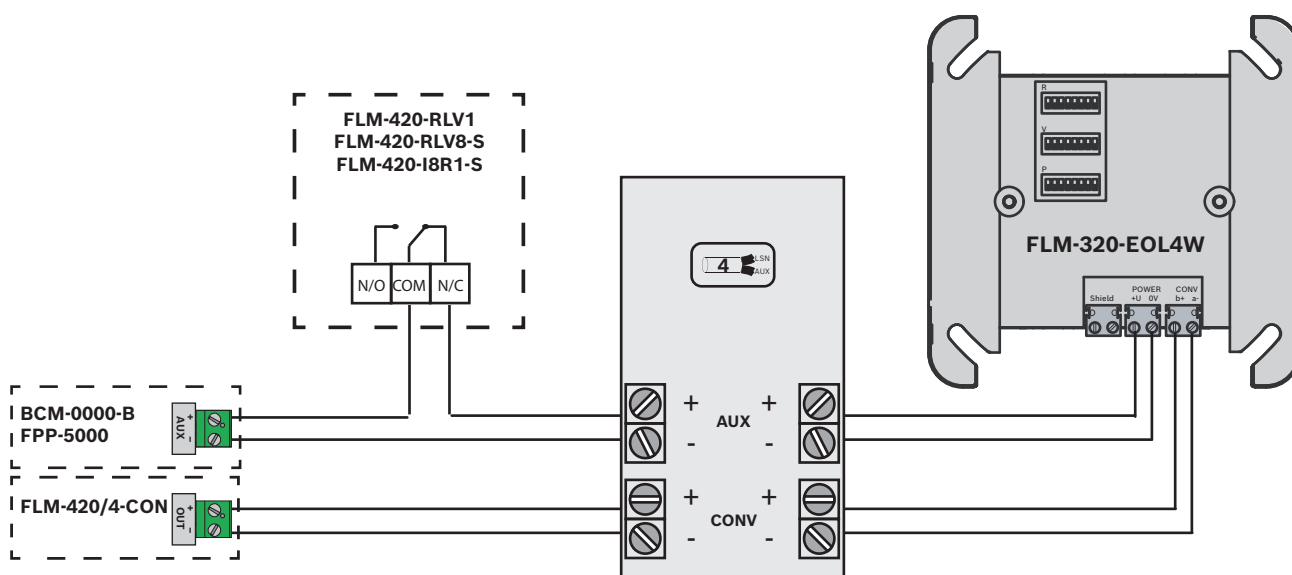
ELS VdS 2489

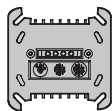
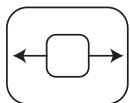




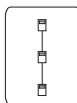
Reset action

ELS VdS 2489

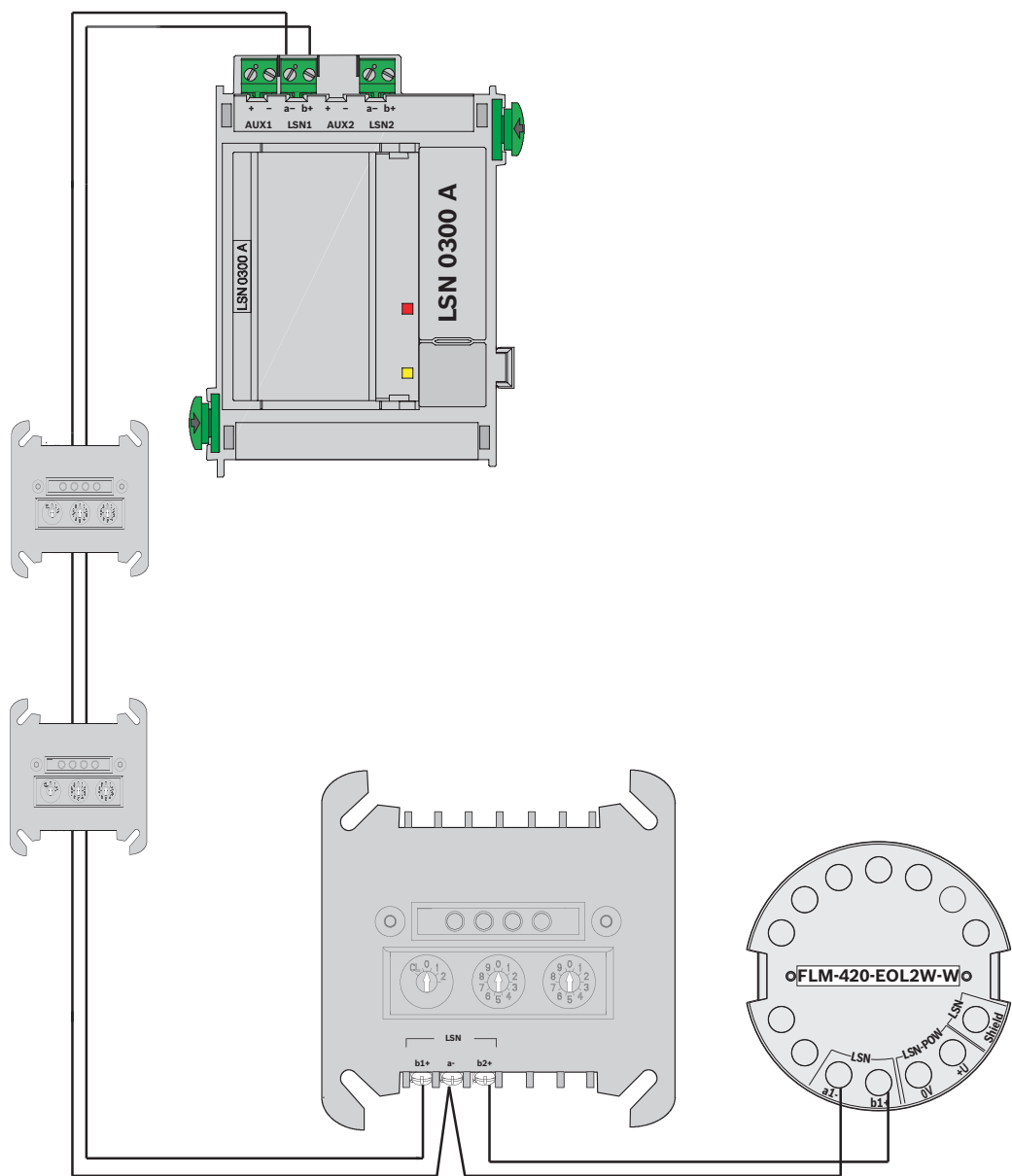


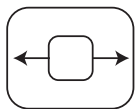
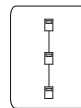
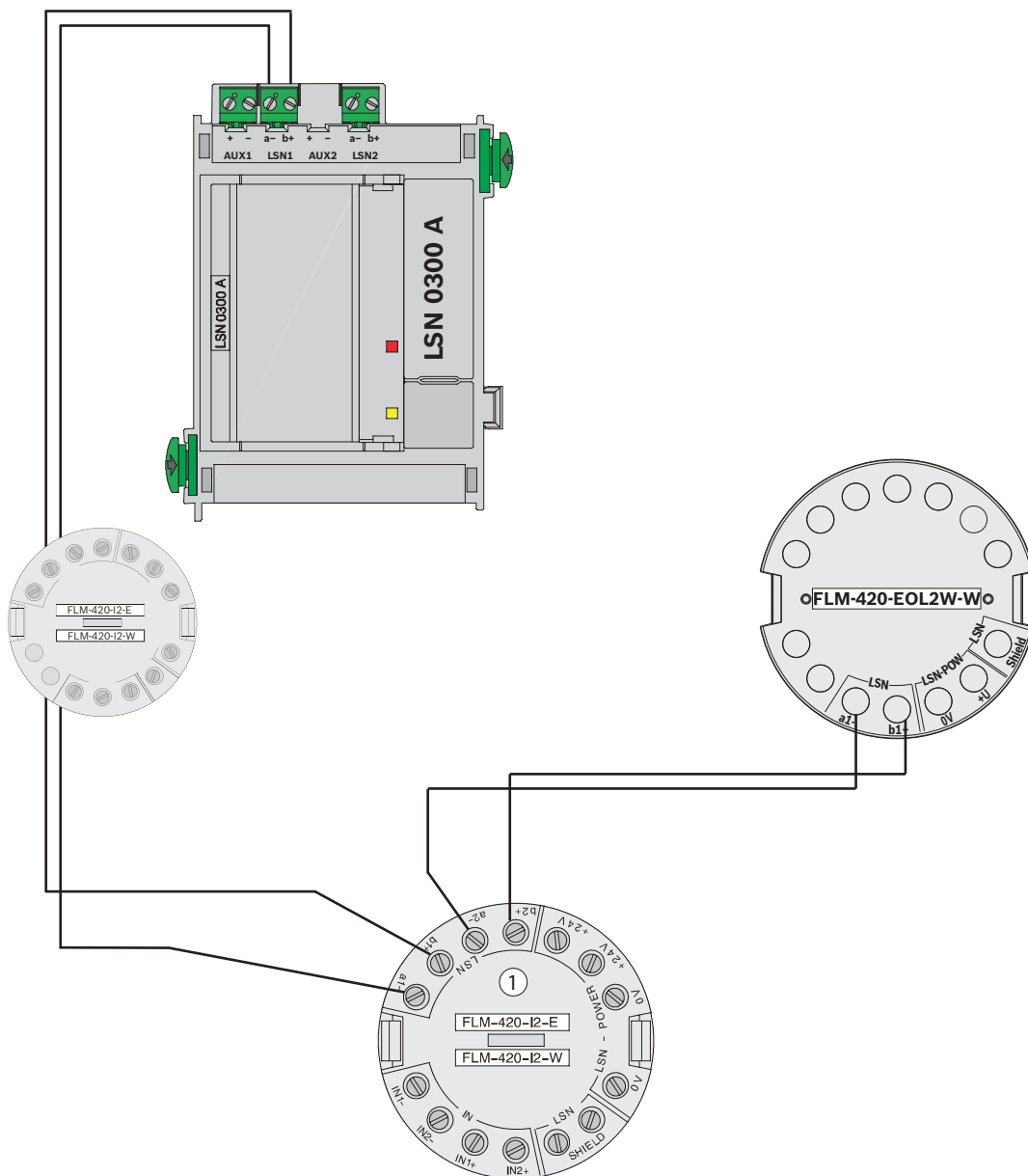


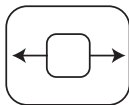
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D



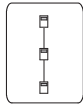
ELS VdS 2489



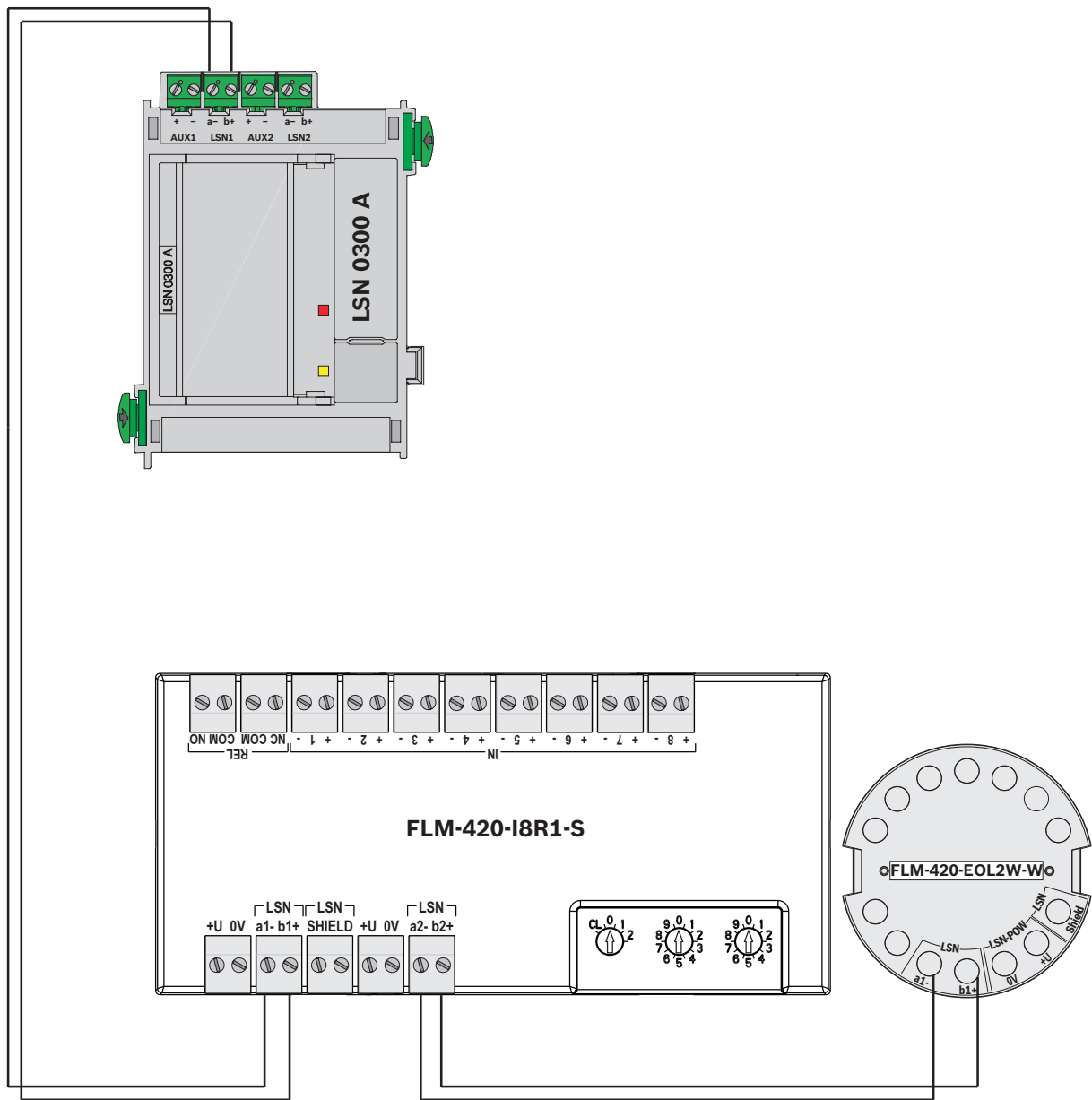
**FLM-420-I2-E/W****ELS VdS 2489**

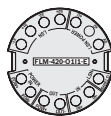
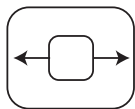
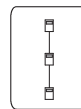
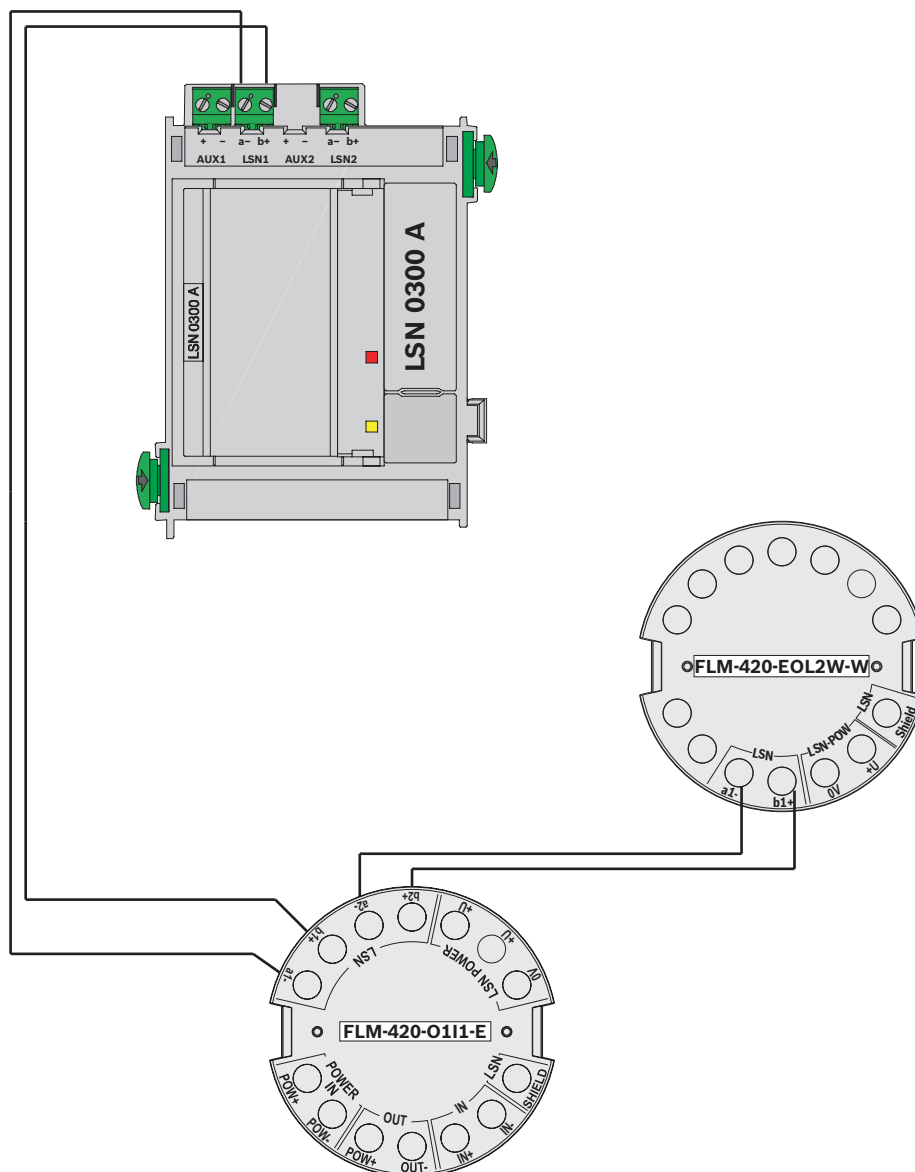


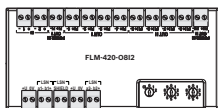
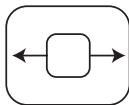
FLM-420-I8R1-S



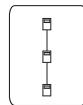
ELS VdS 2489



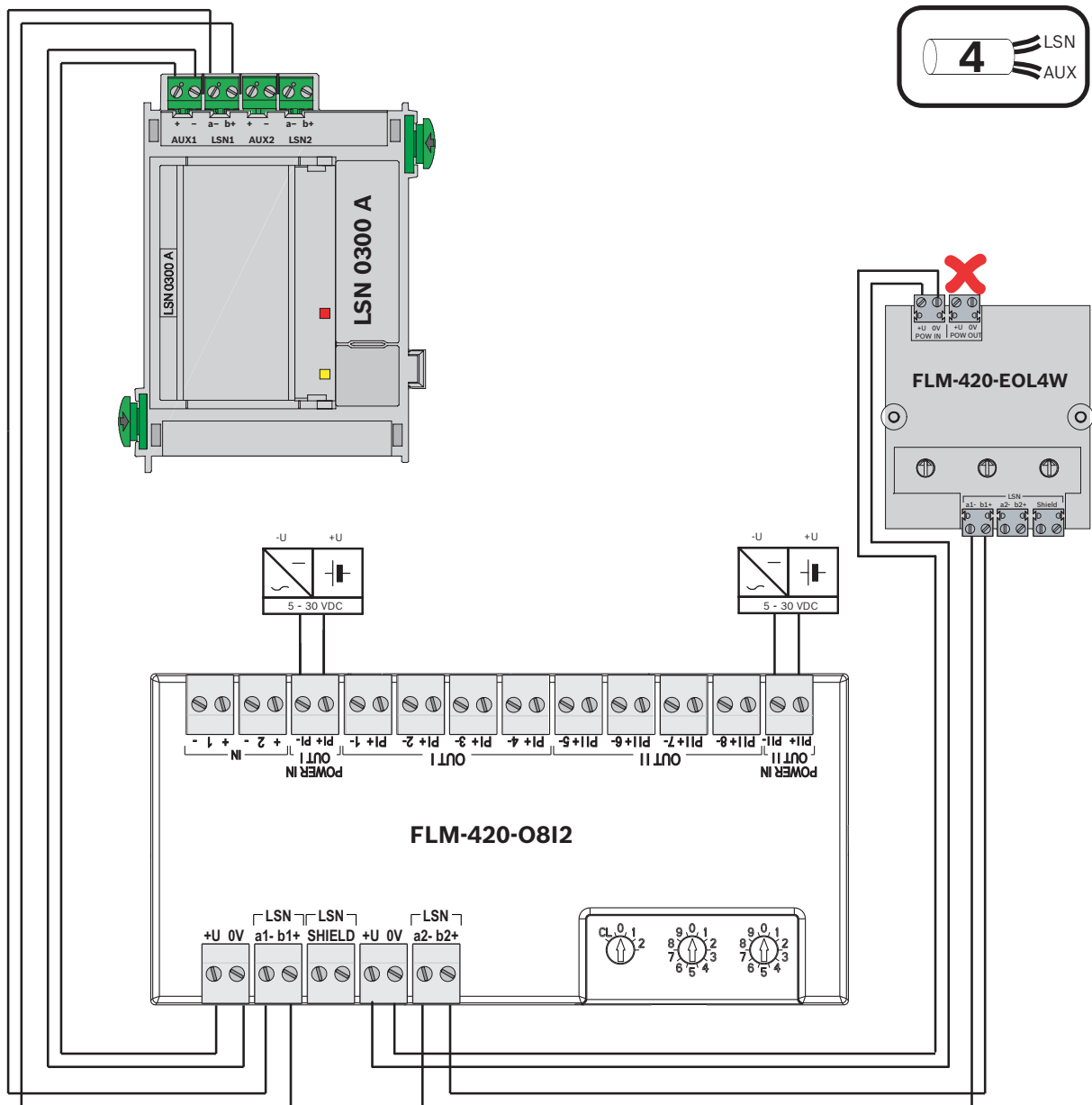
**FLM-420-O1I1-E****ELS VdS 2489**

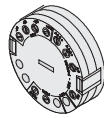
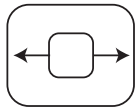


FLM-420-08I2-S

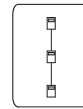


ELS VdS 2489

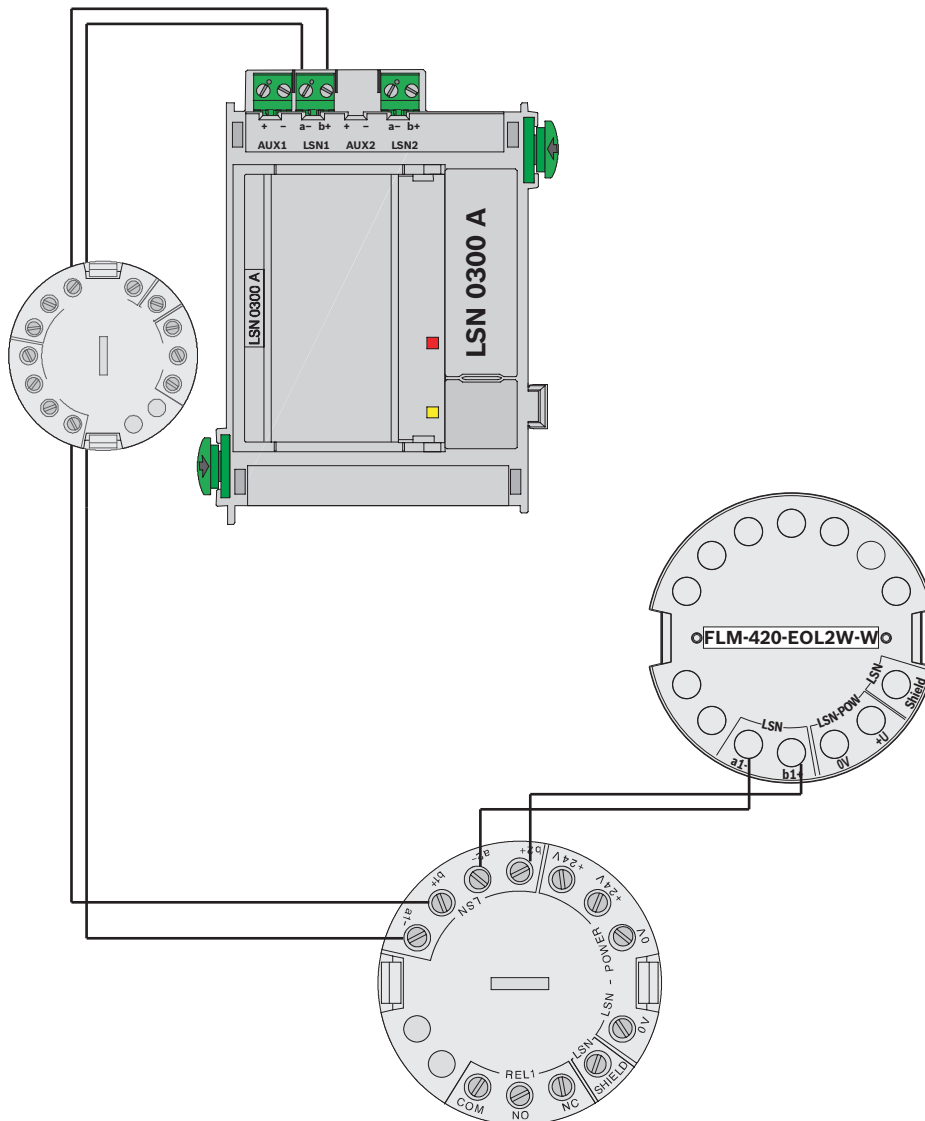


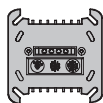
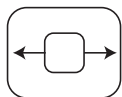


FLM-420-I2-E/-W
FLM-420-RLV1-E



ELS VdS 2489

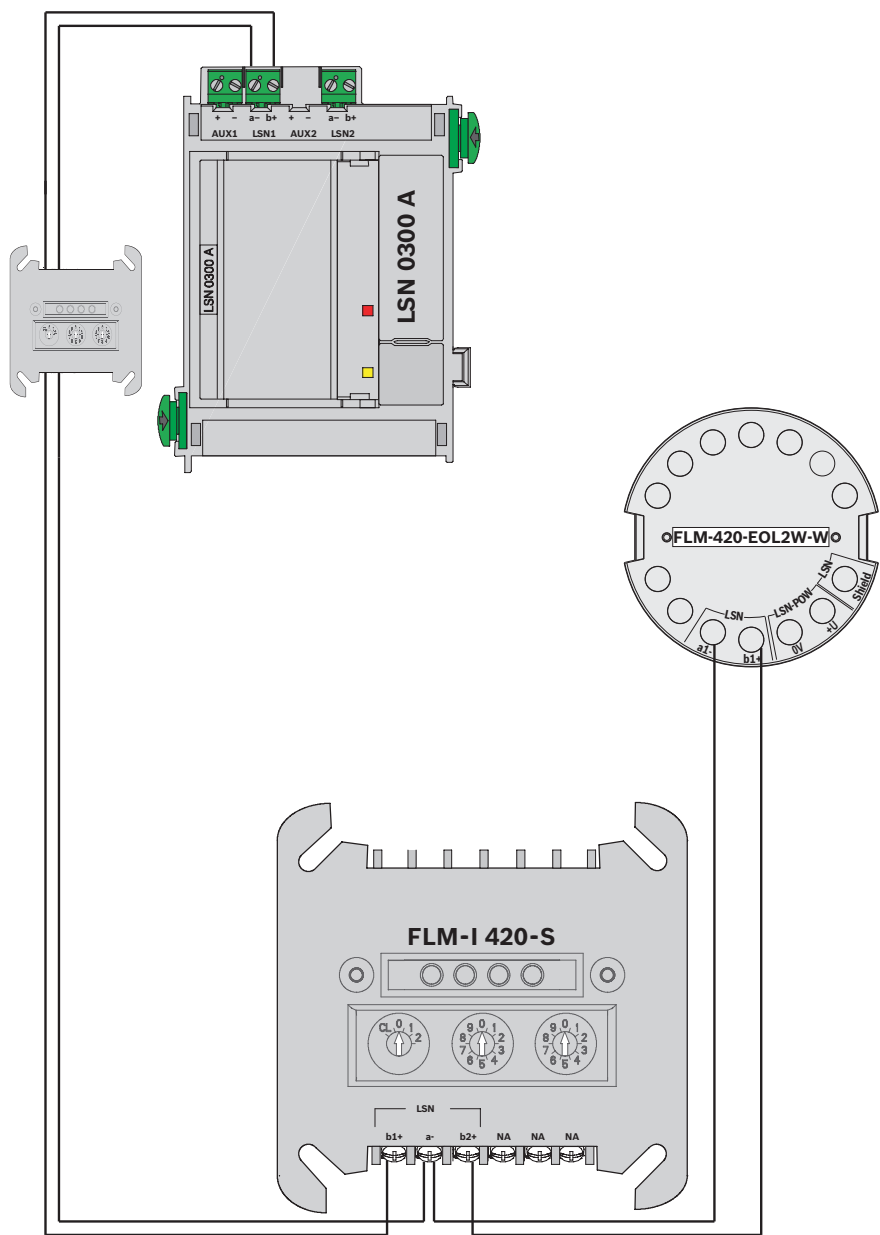


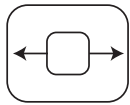
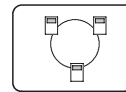
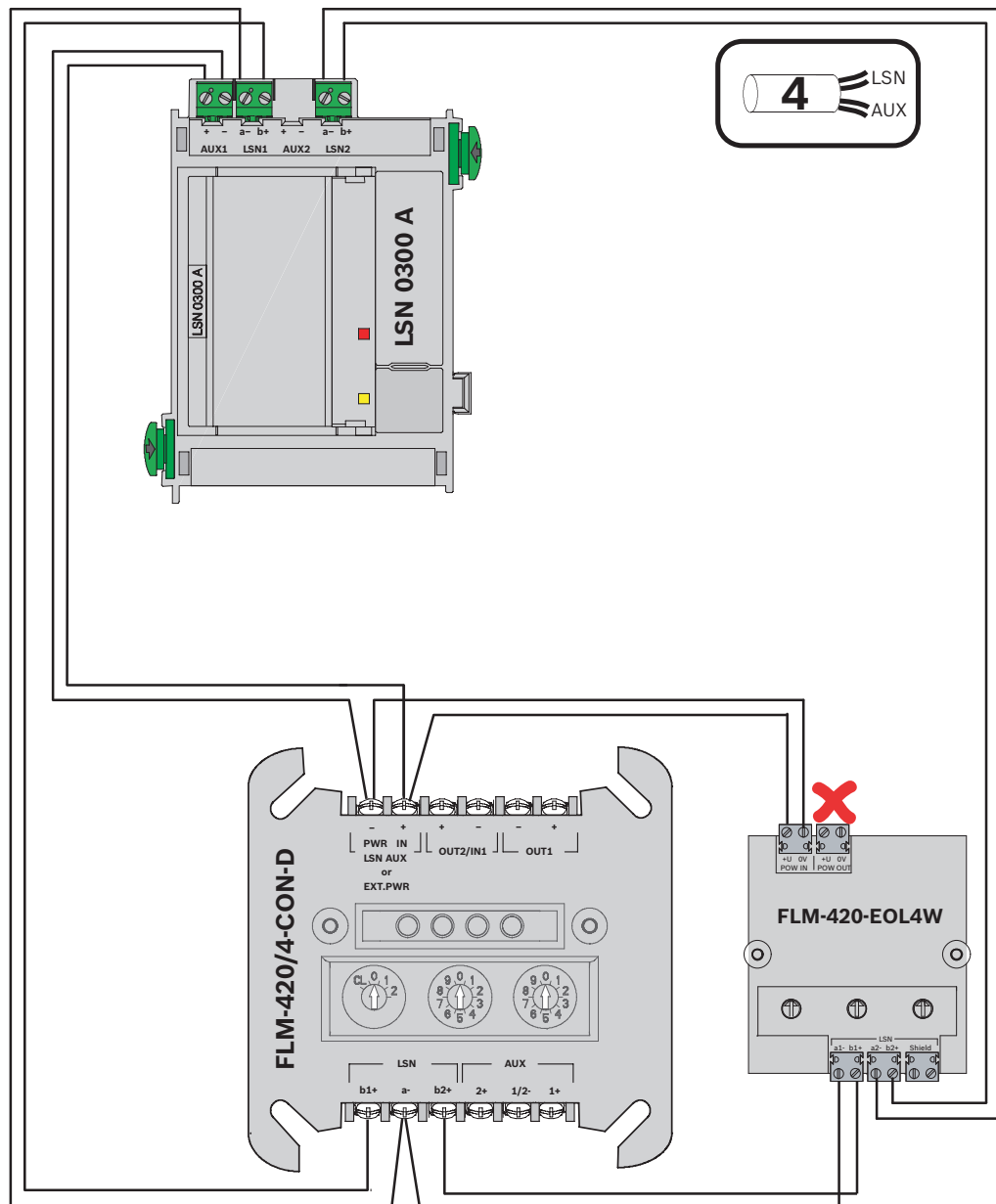


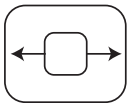
FLM-I 420-S



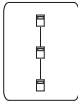
ELS VdS 2489



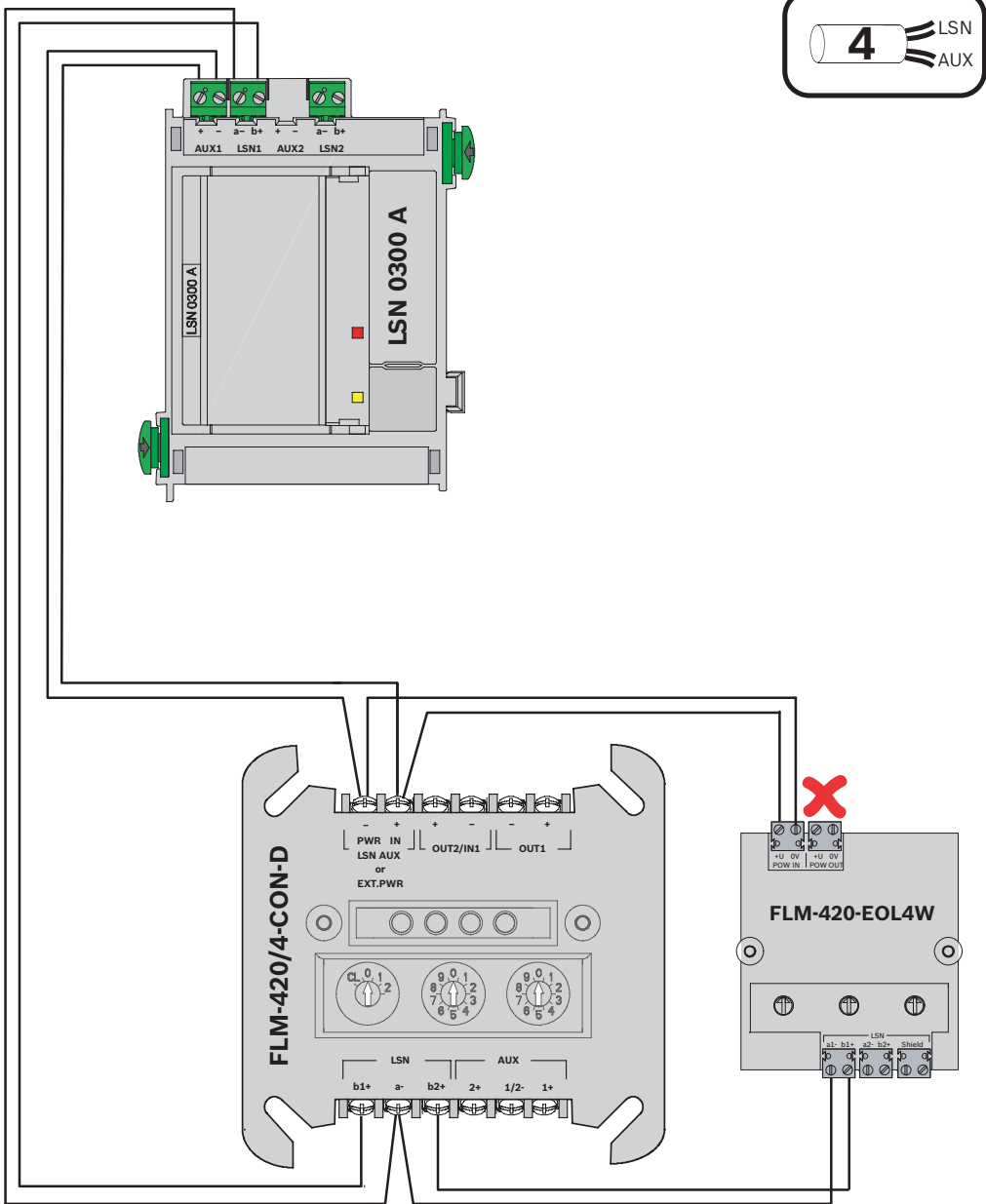
**FLM-420/
4-CON-D****ELS VdS 2489**

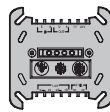
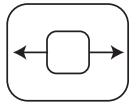
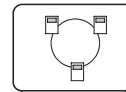
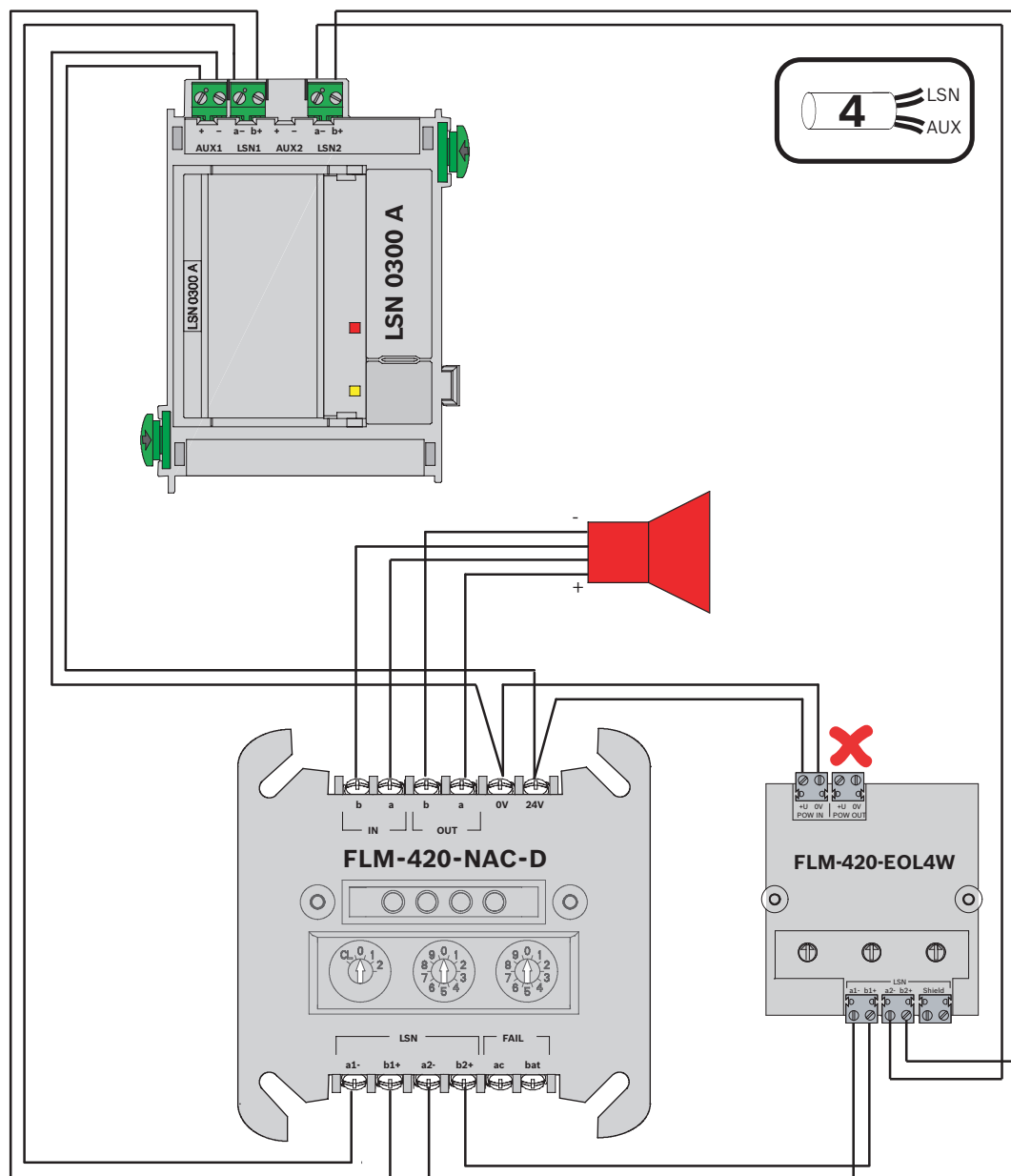


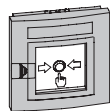
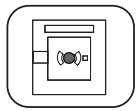
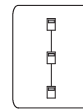
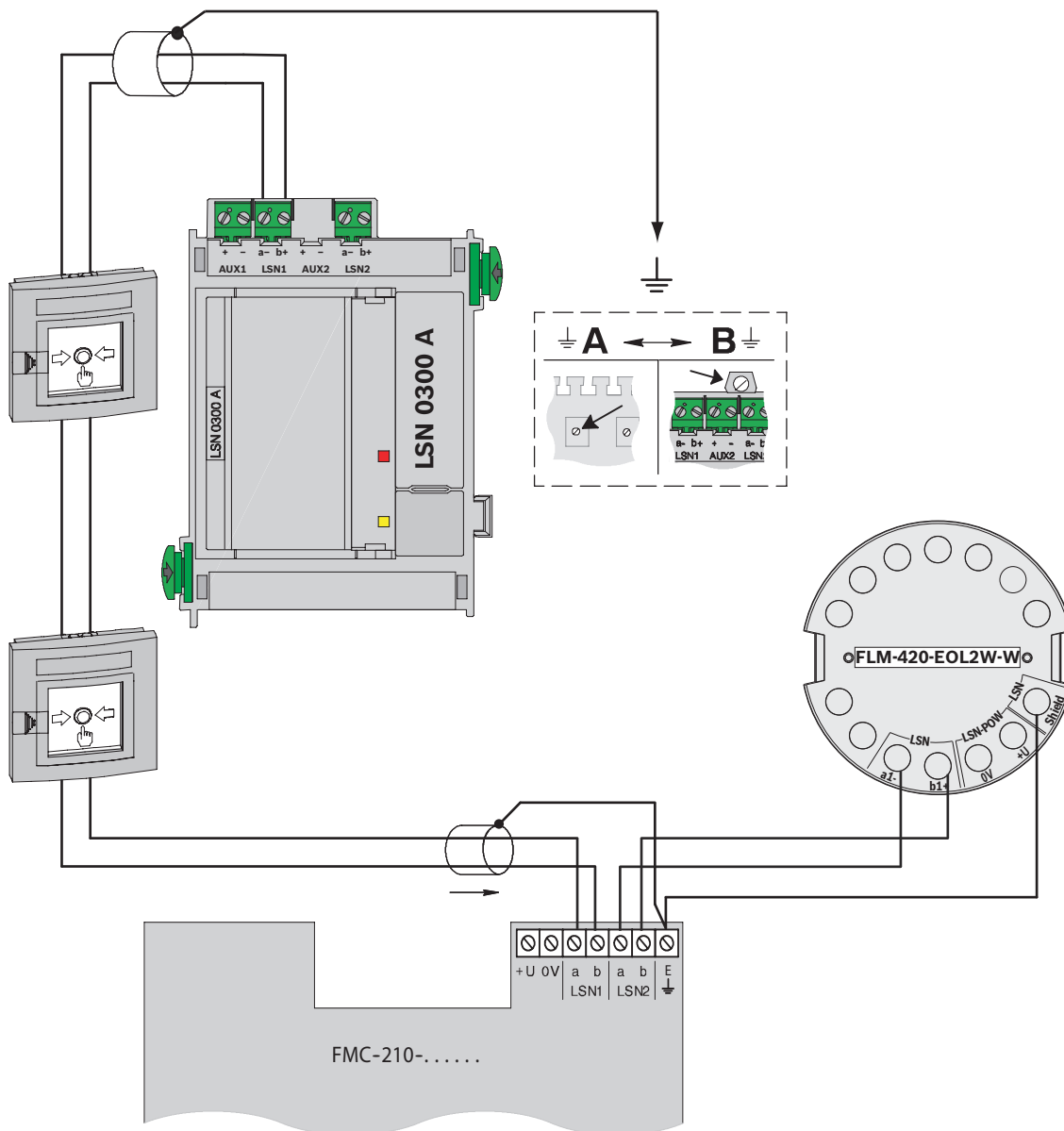
FLM-420/
4-CON-D



ELS VdS 2489



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

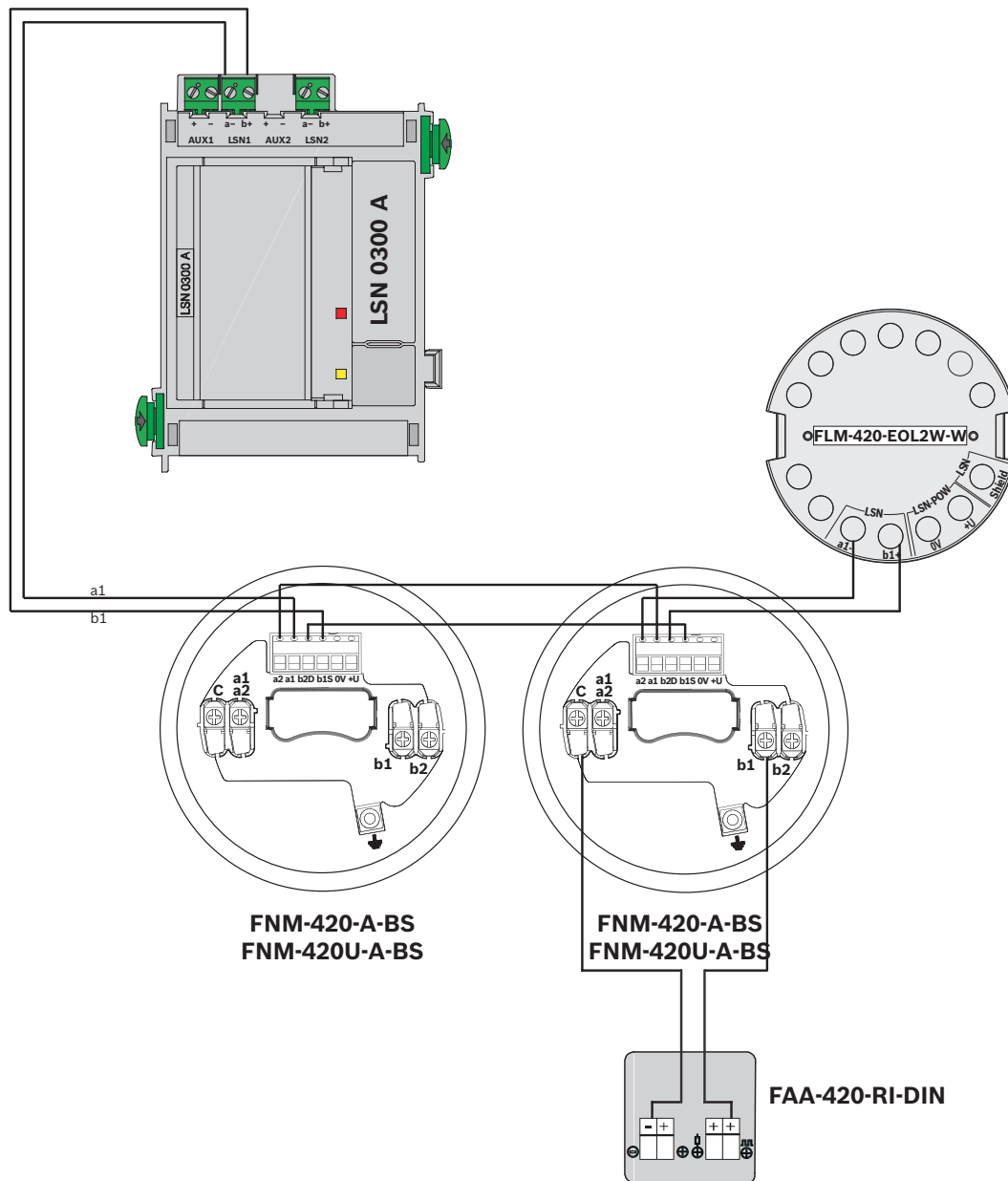
**FMC-210-...****ELS VdS 2489**

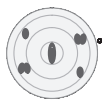


FNM-420-A-BS
FNM-420U-A-BS



ELS **VdS 2489**

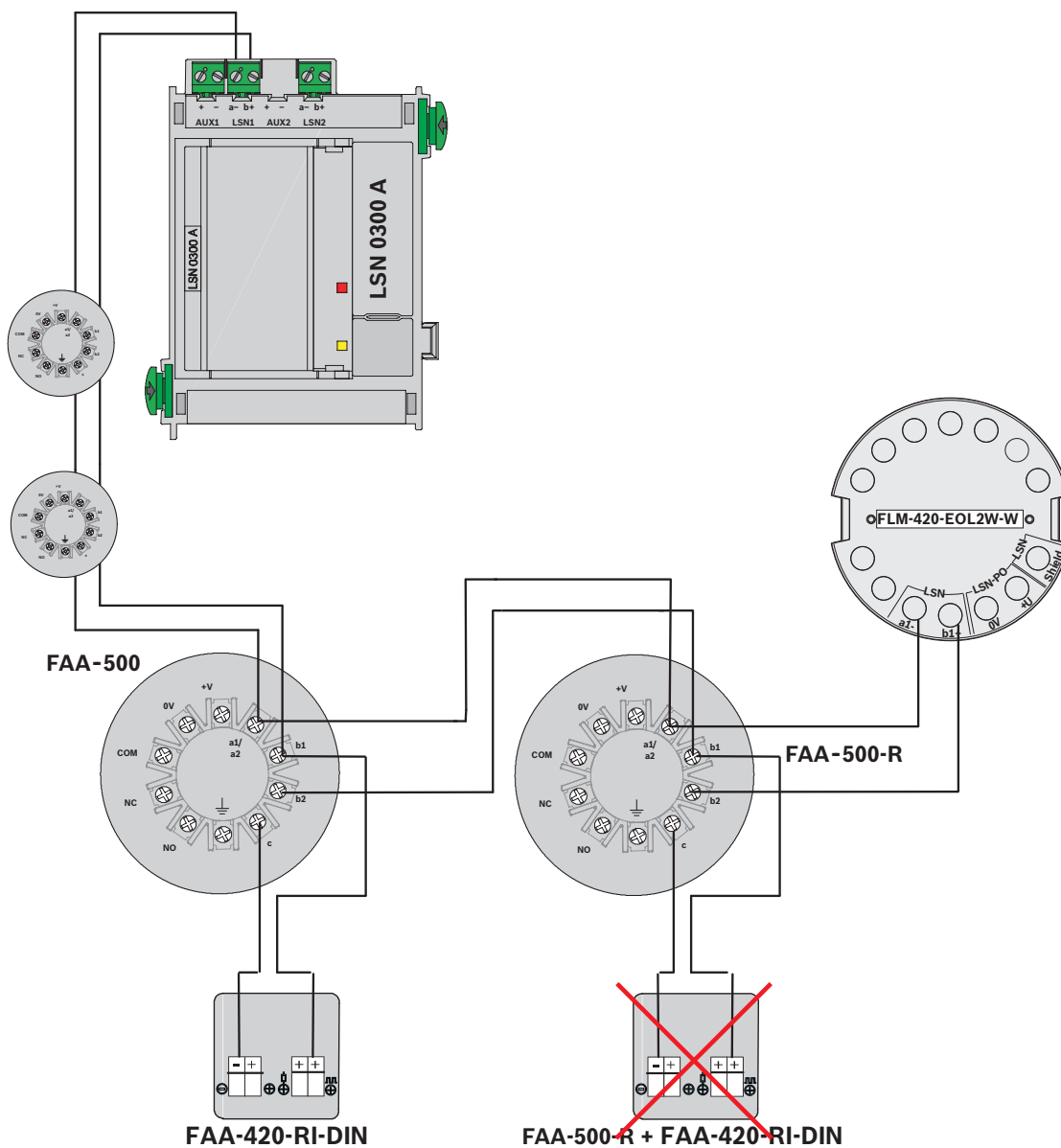




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

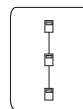


ELS VdS 2489

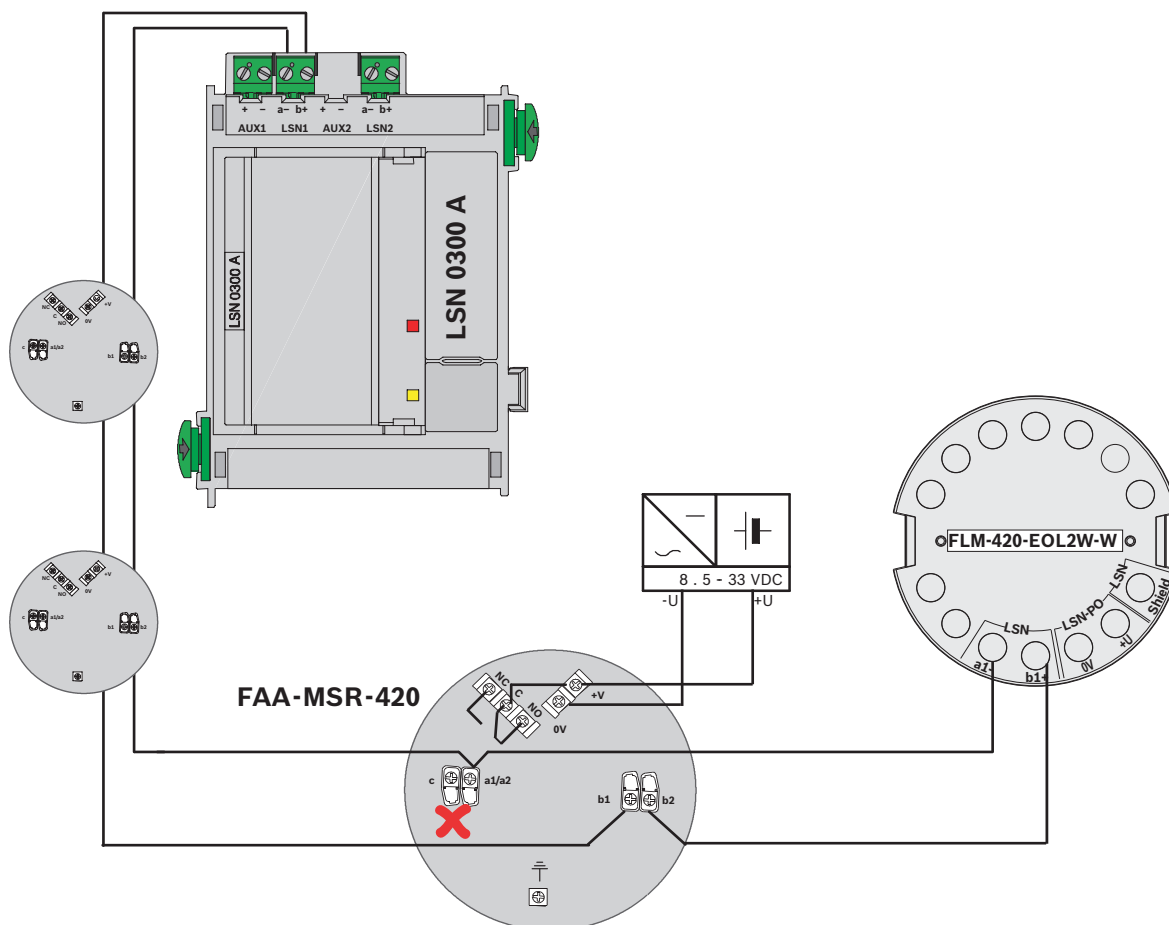




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

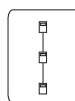


ELS VdS 2489

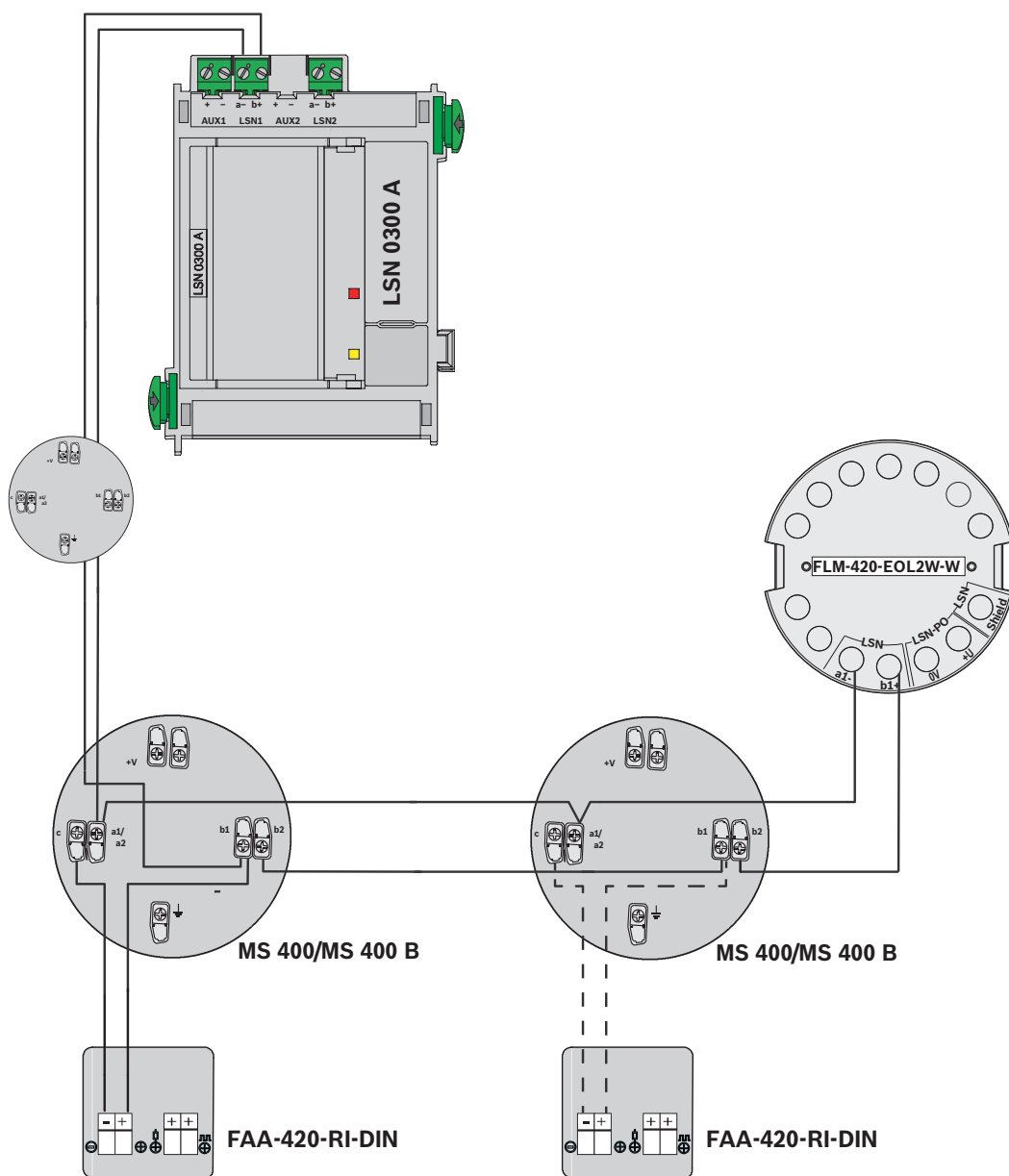


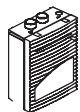


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470

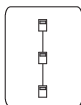


ELS VdS 2489

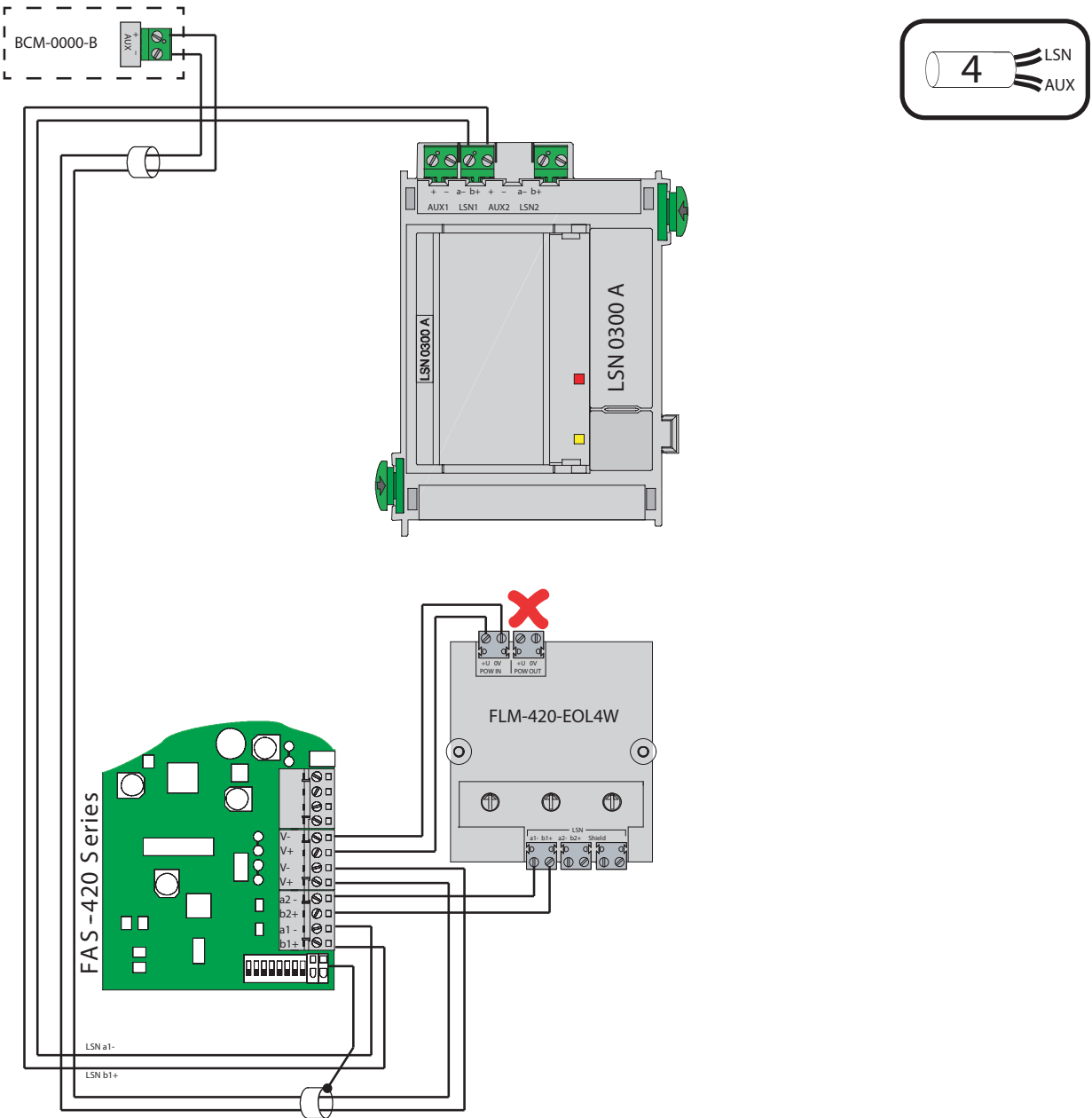


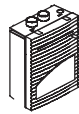


FAS-420 Series

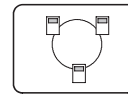


ELS VdS 2489

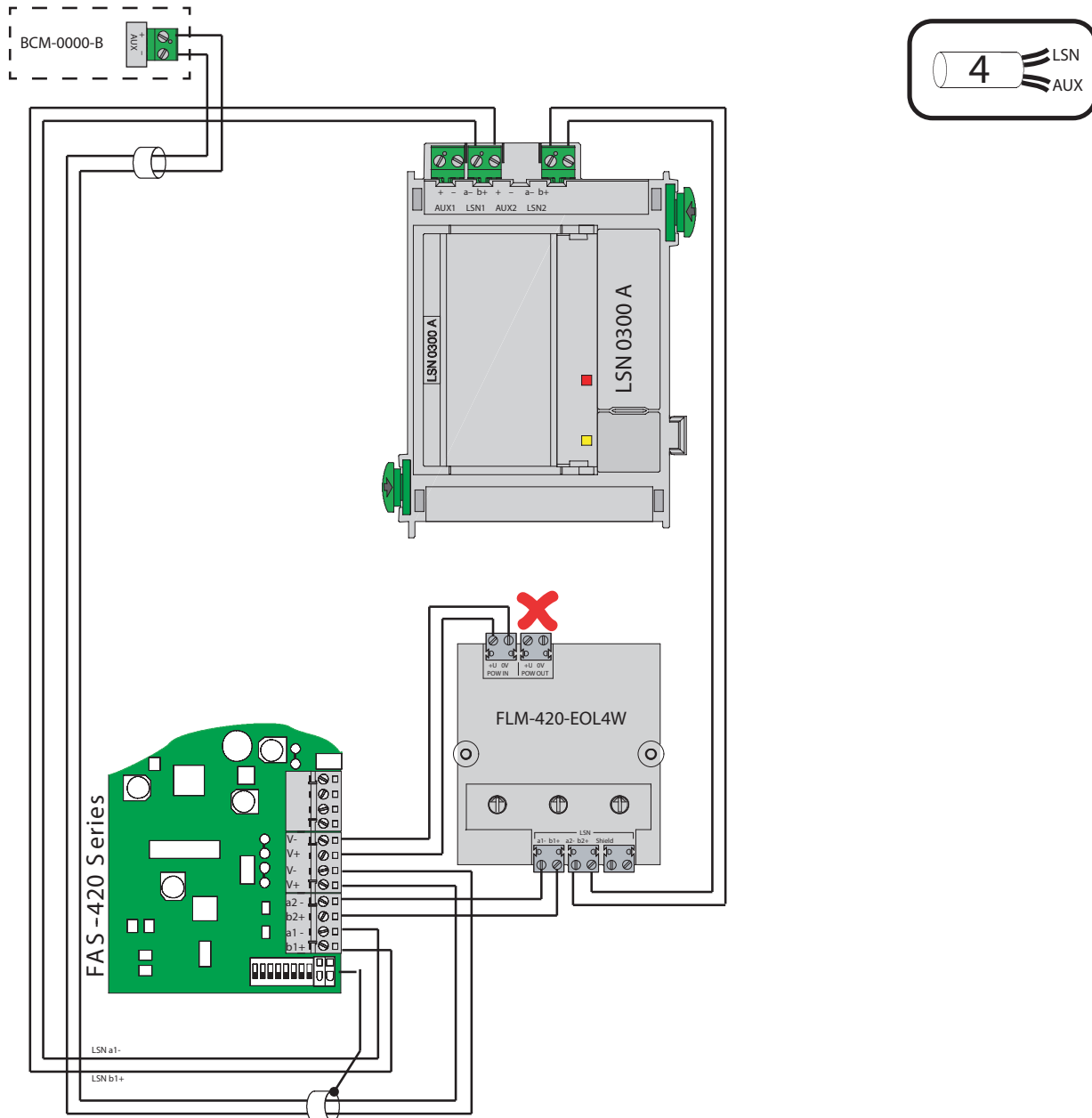


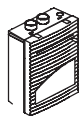


FAS-420 Series

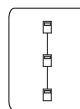


ELS VdS 2489

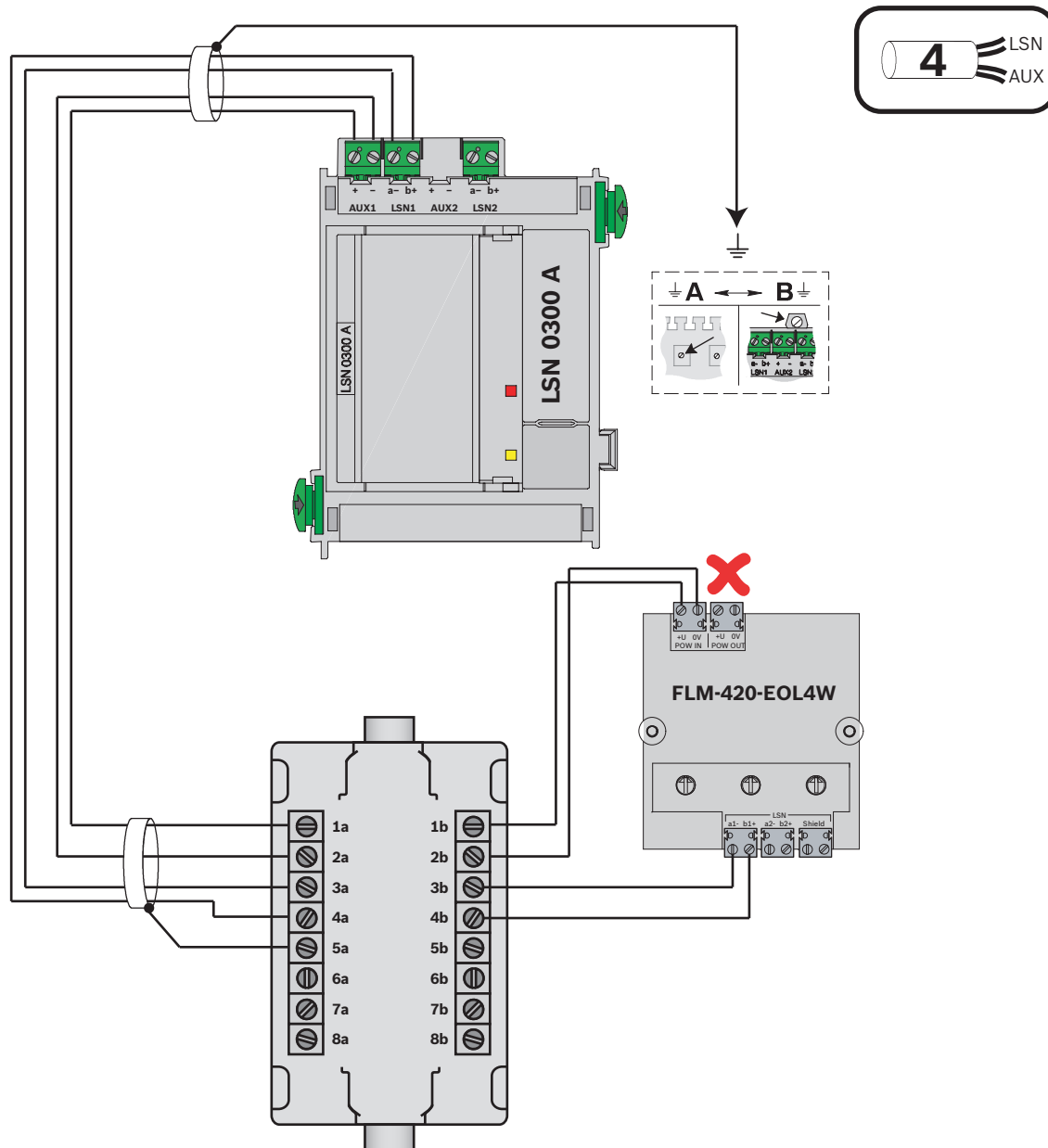


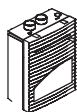


FAS-420-TM Series

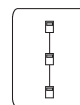


ELS VdS 2489



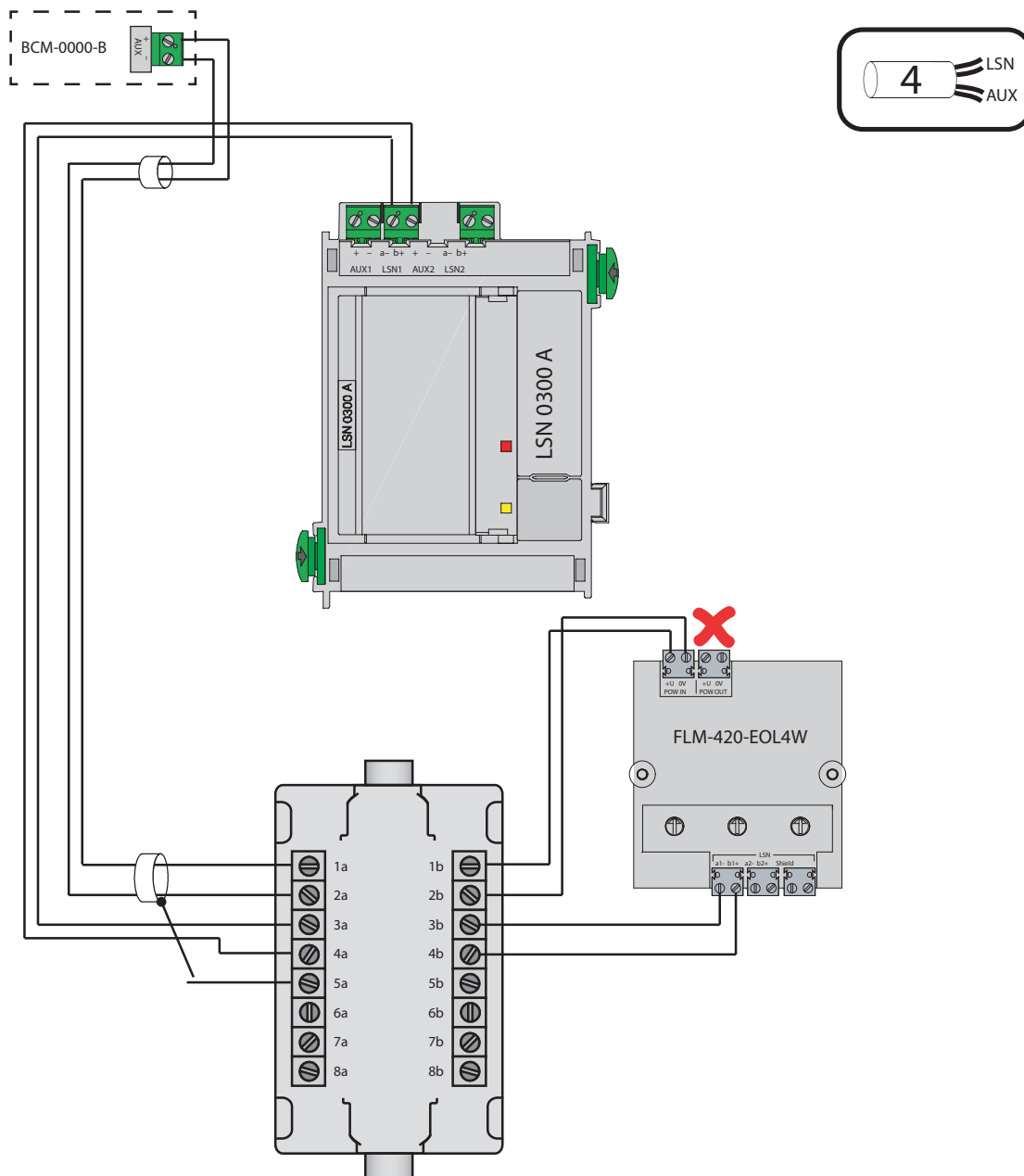


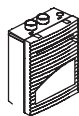
FAS-420-TM Series



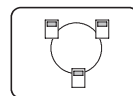
ELS

VdS 2489

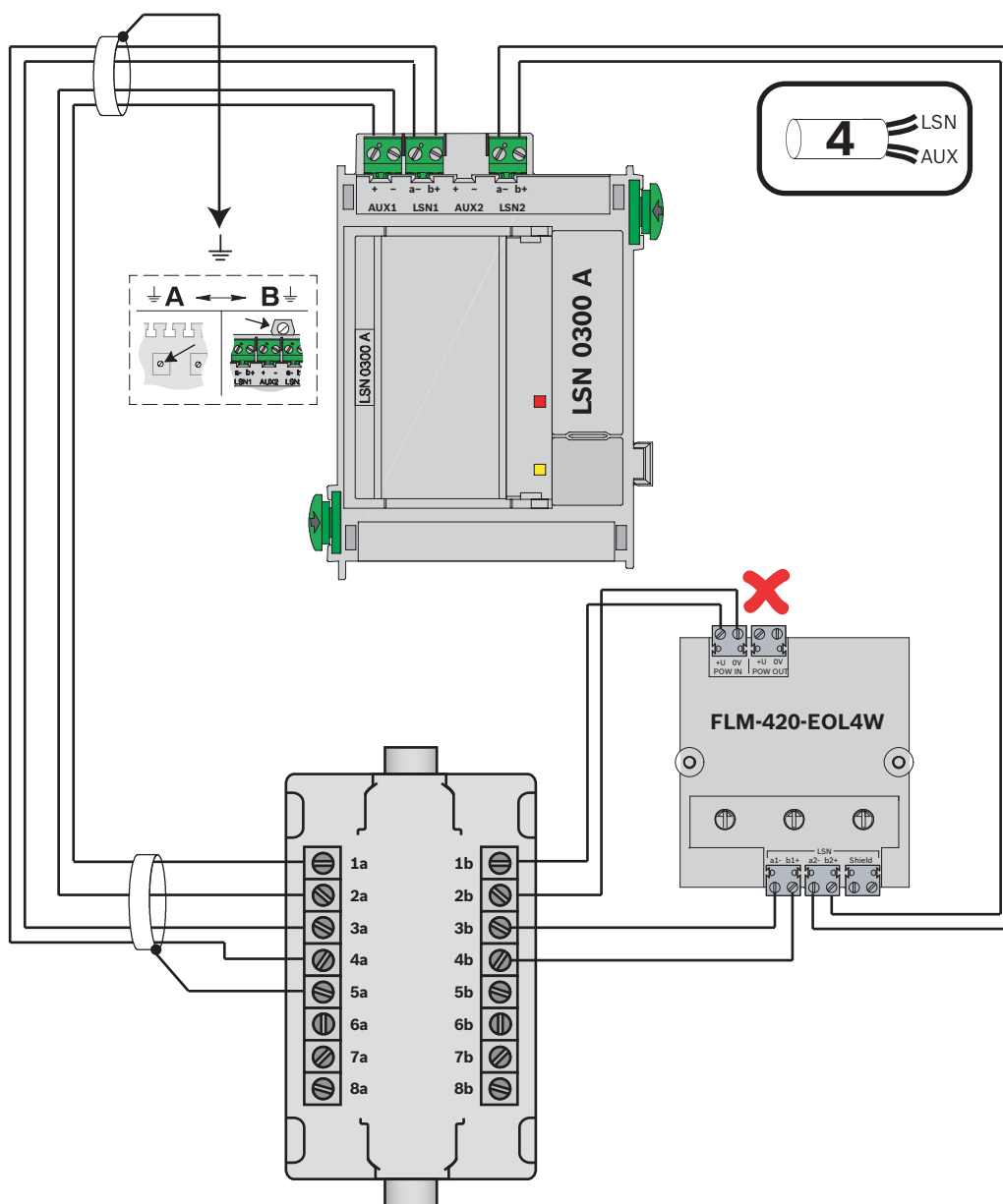


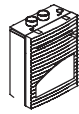


FAS-420-TM Series

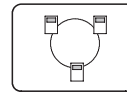


ELS VdS 2489

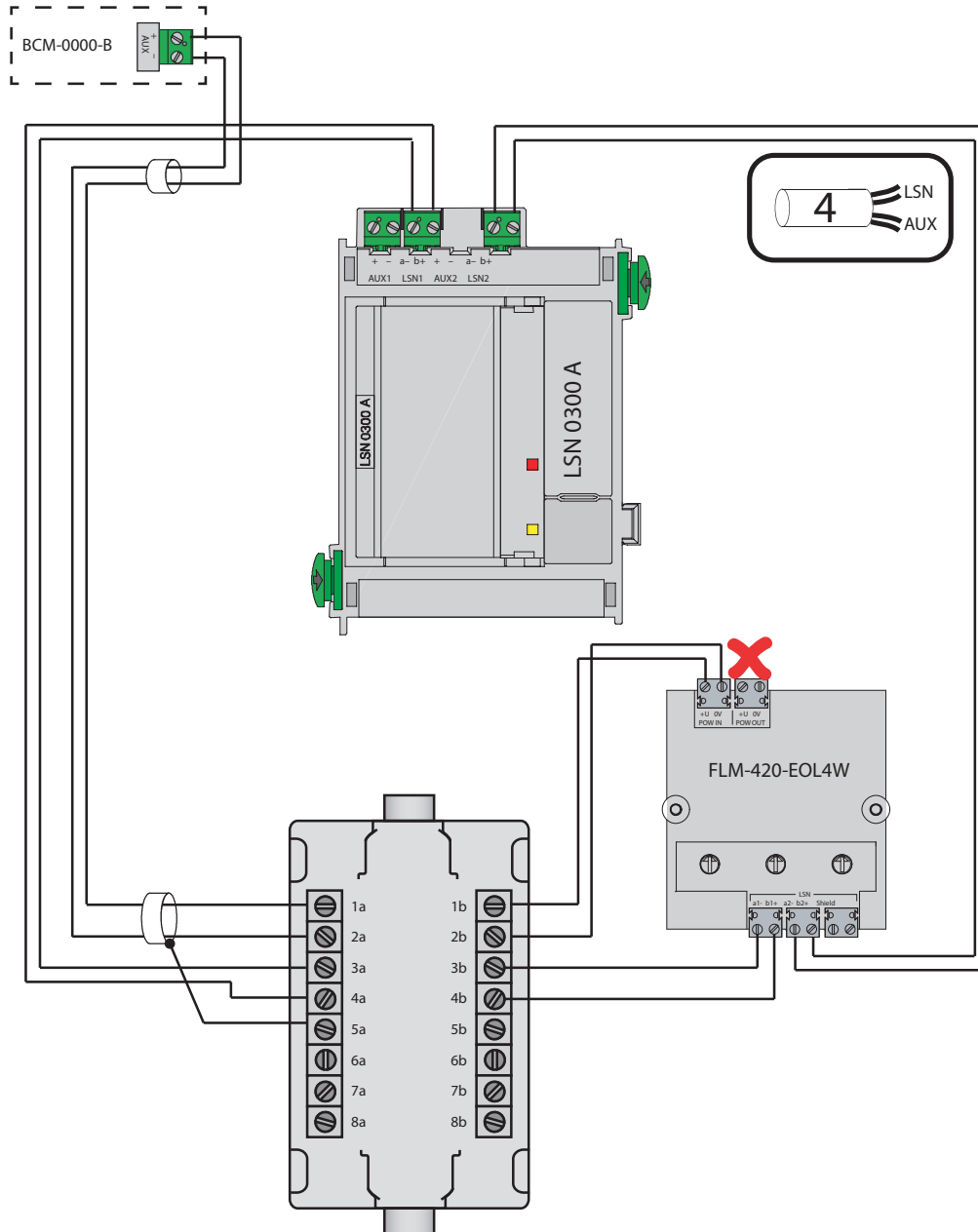




FAS-420-TM Series

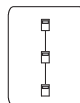


ELS VdS 2489

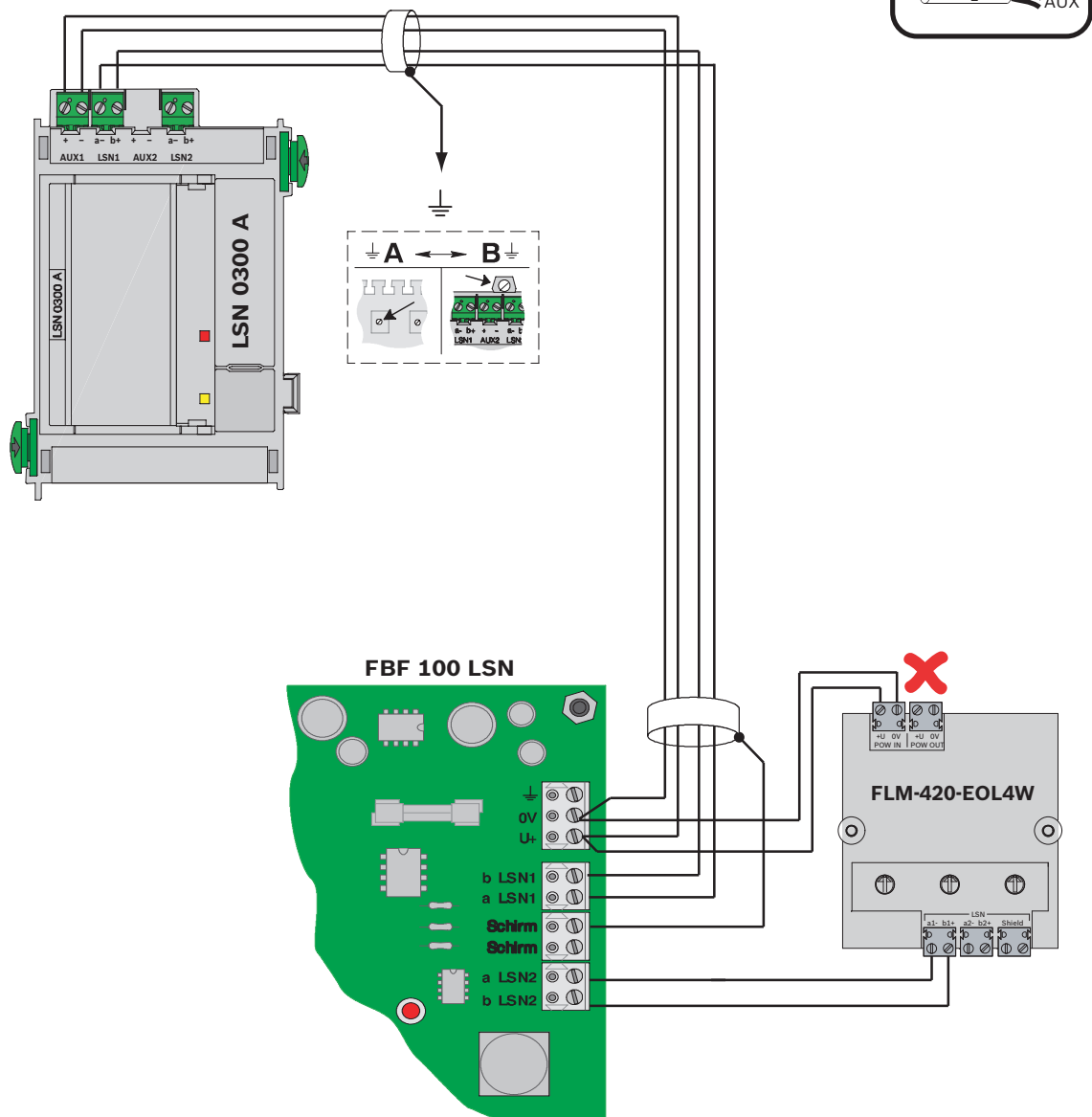




FBF 100 LSN

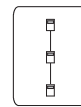


ELS VdS 2489

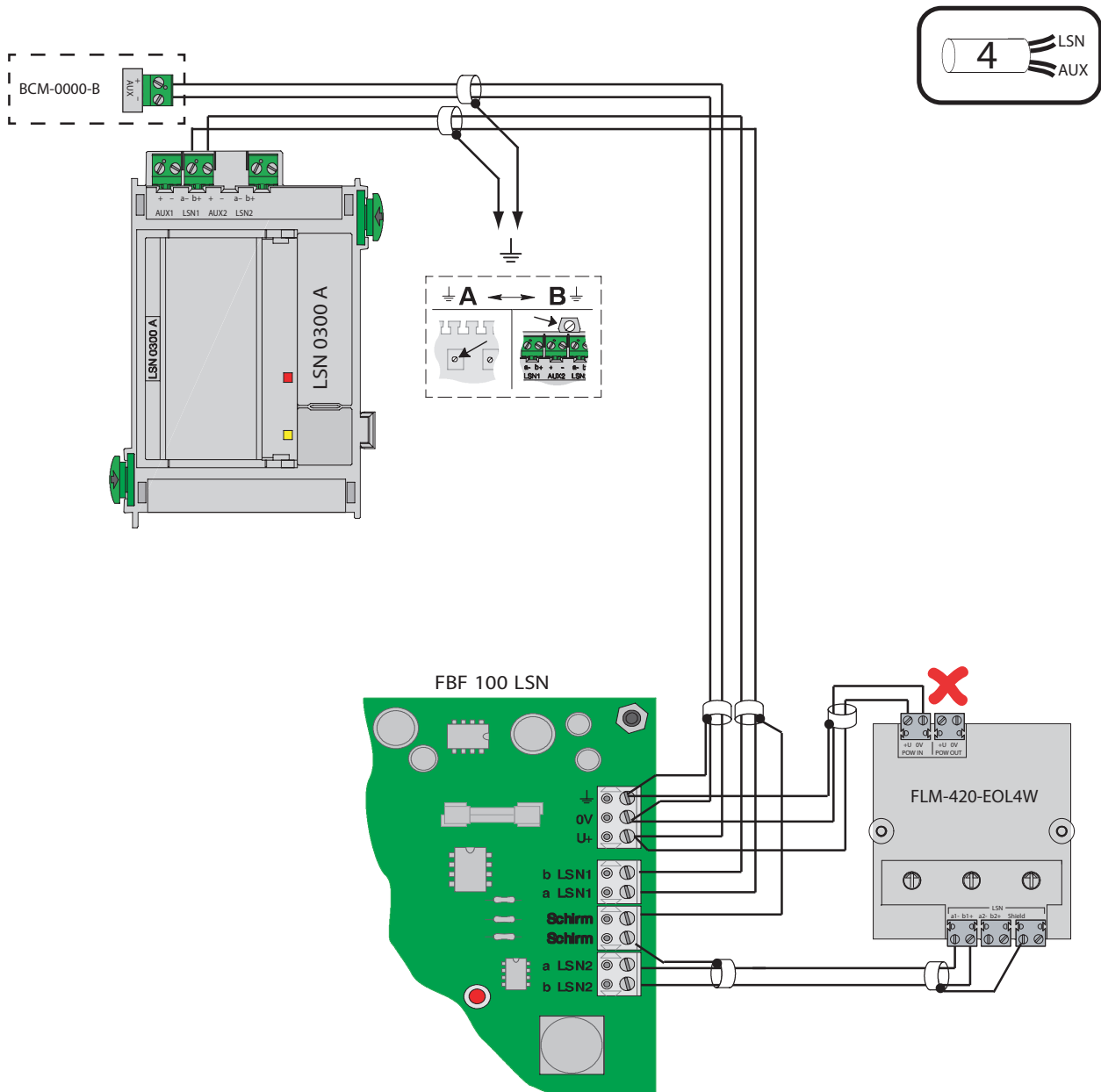




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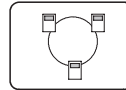


ELS VdS 2489

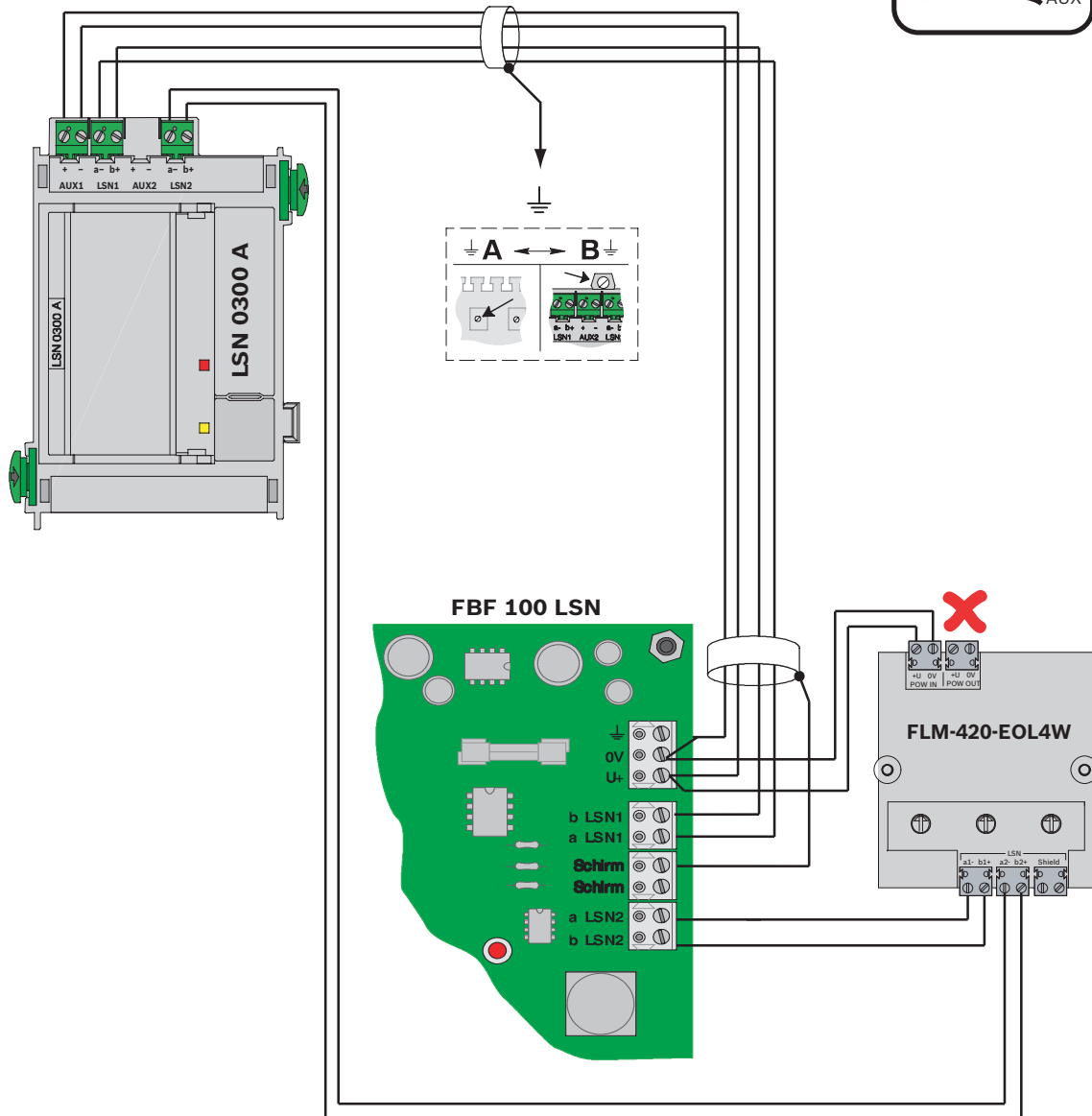




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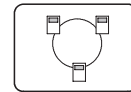


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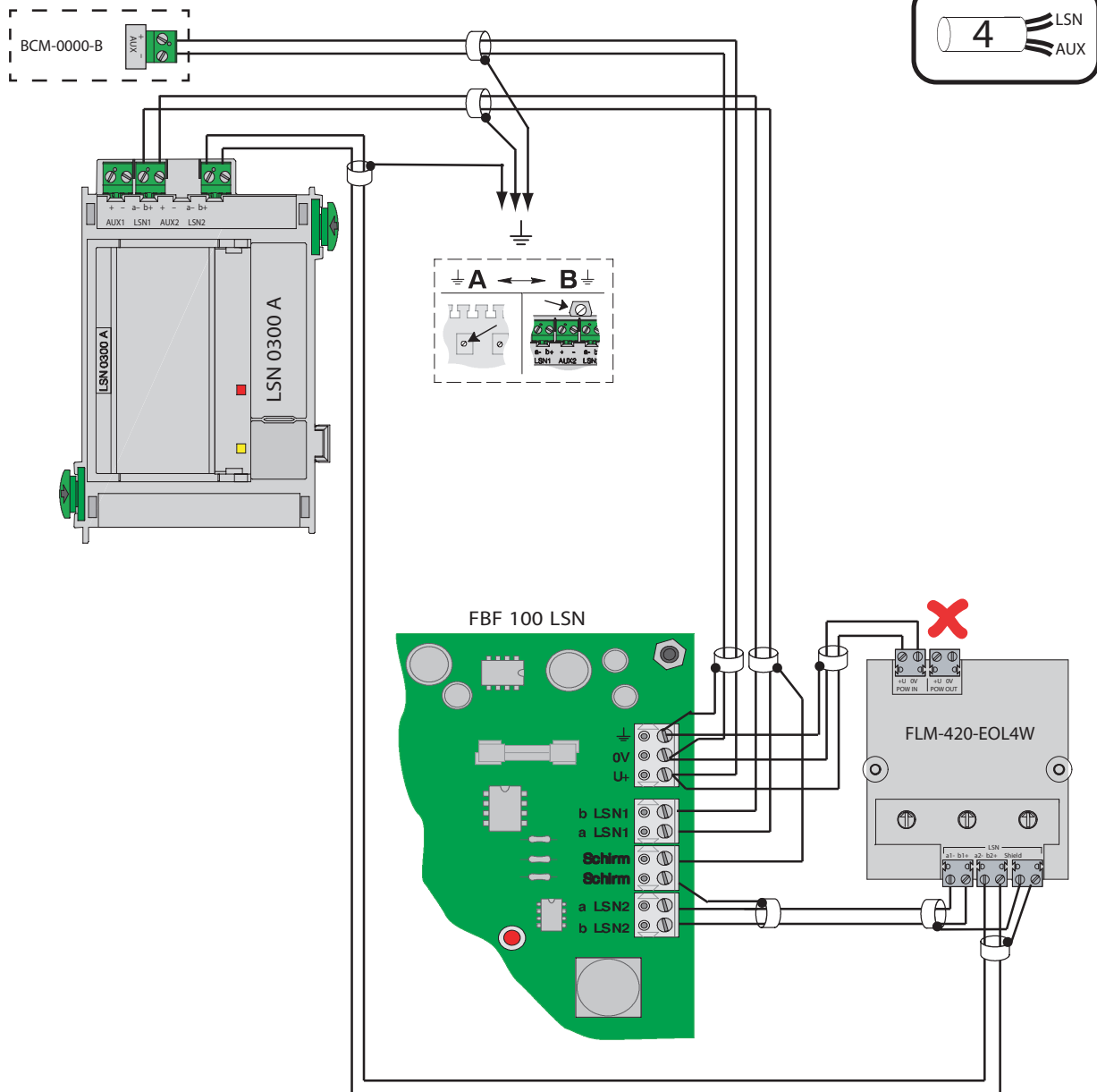


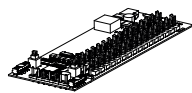


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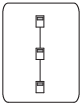


ELS VdS 2489

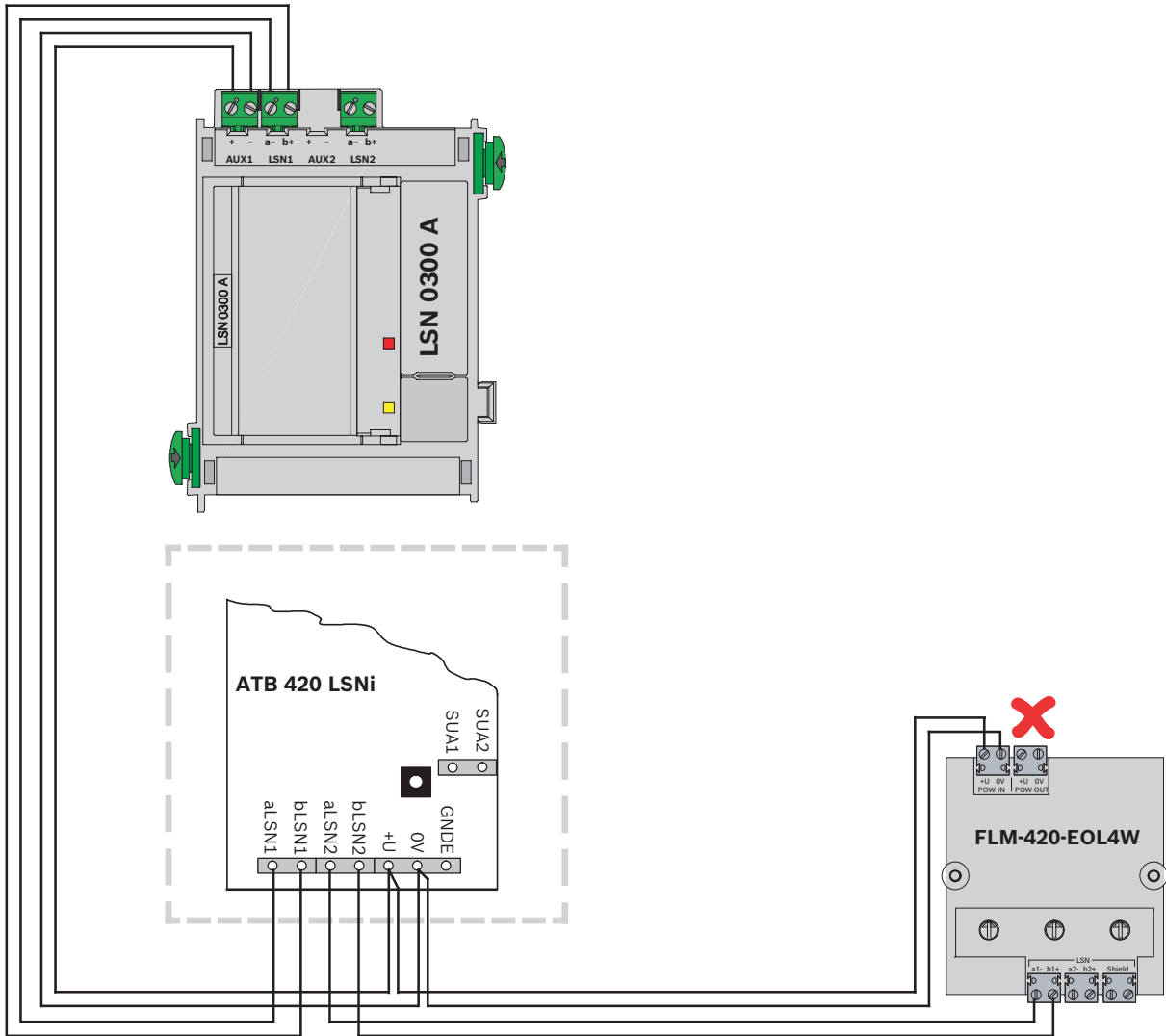


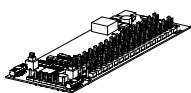


ATB 420 LSNi

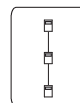


ELS VdS 2489

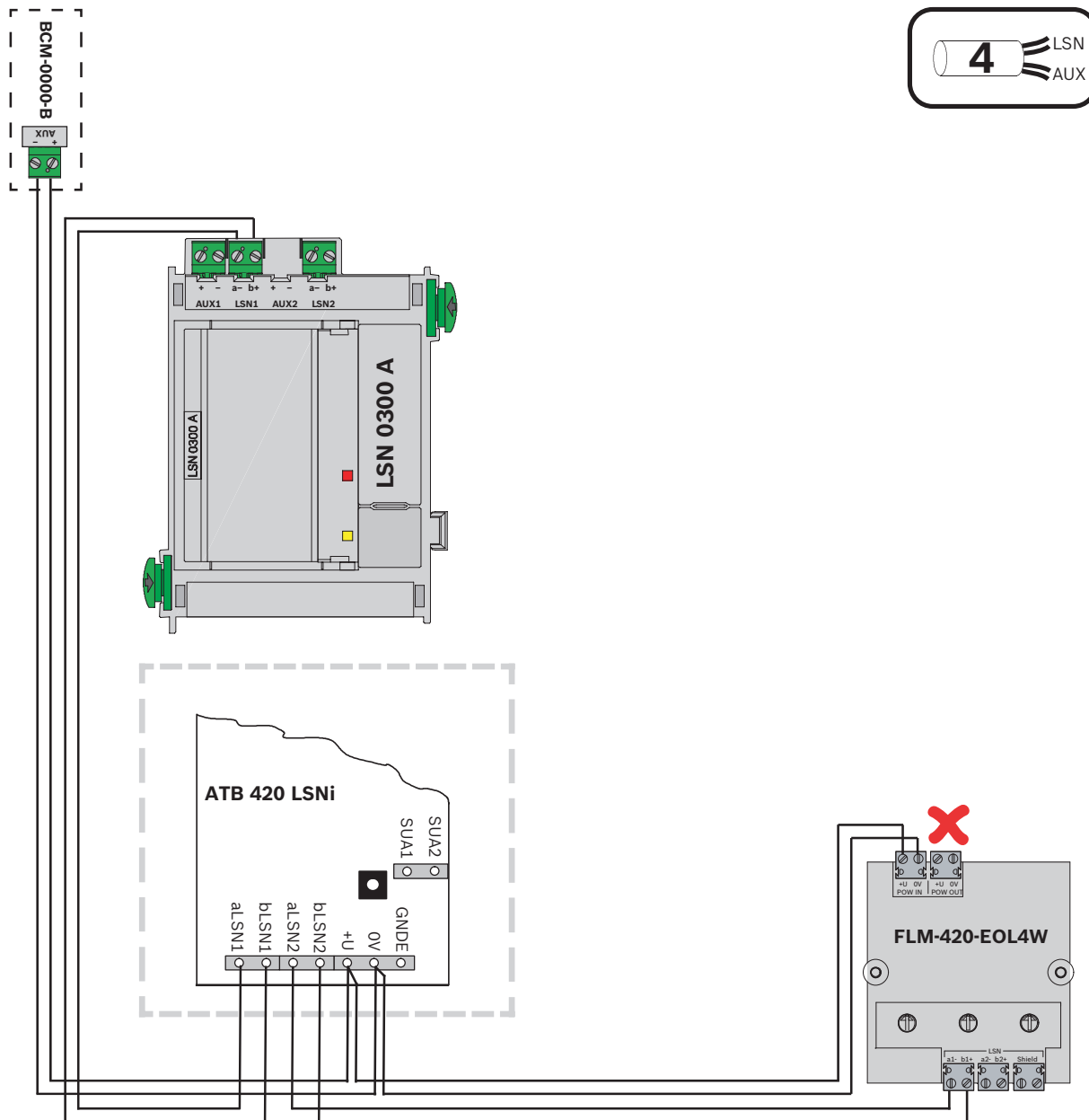


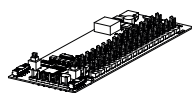


ATB 420 LSNi

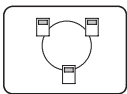


ELS VdS 2489

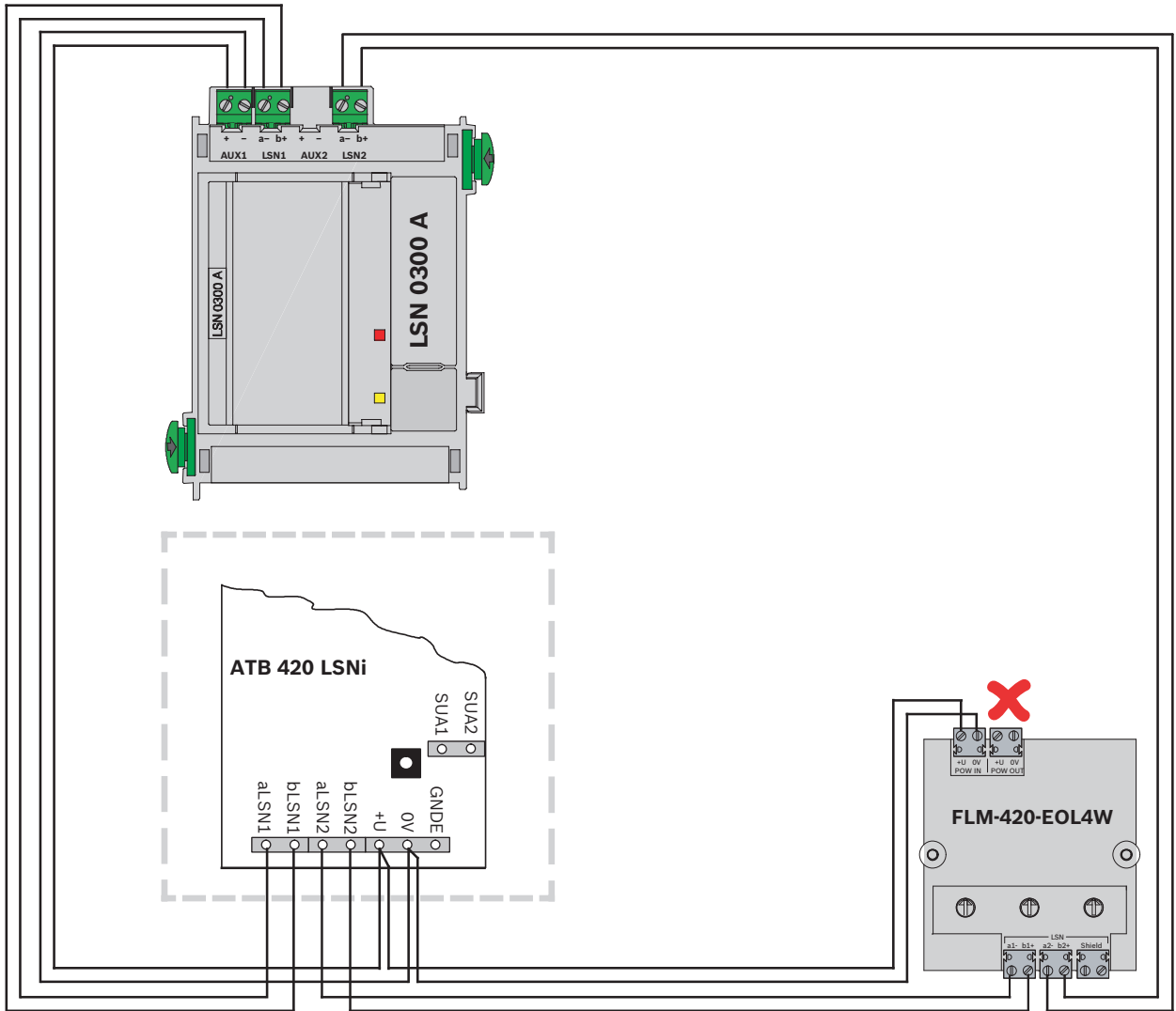


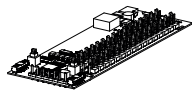


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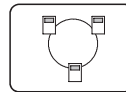


ELS VdS 2489

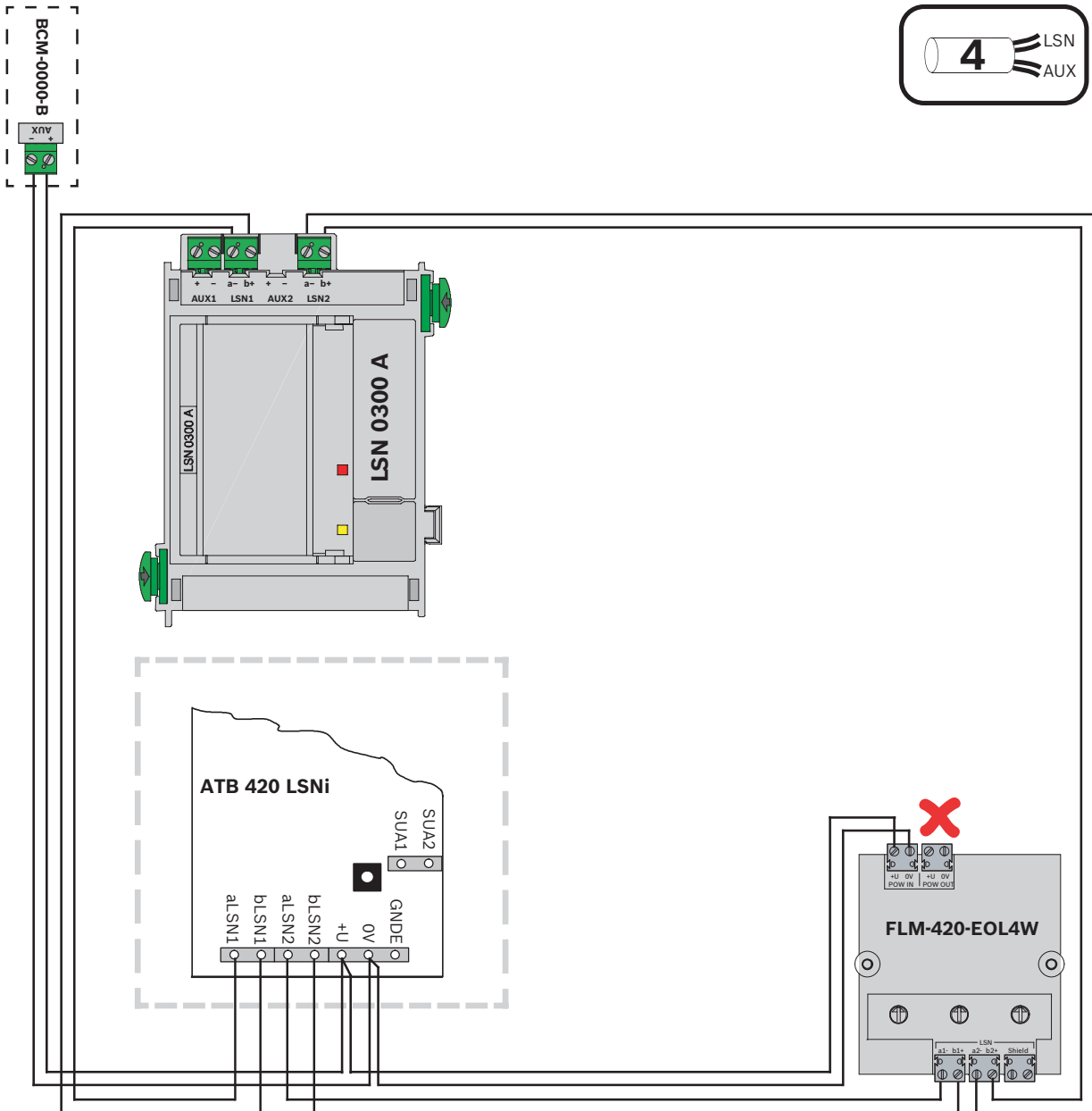




ATB 420 LSNi

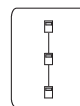


ELS VdS 2489

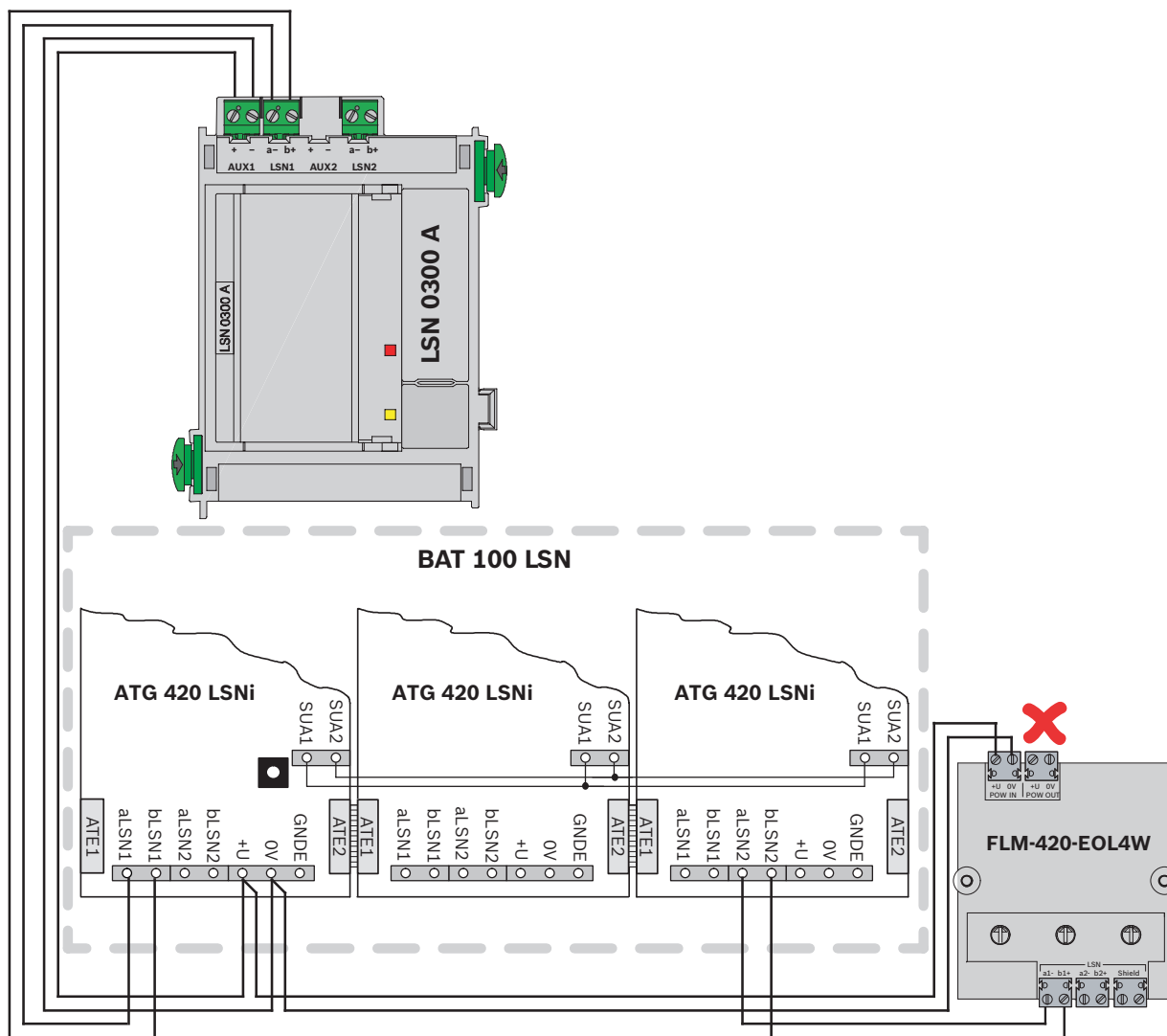
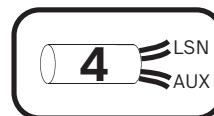


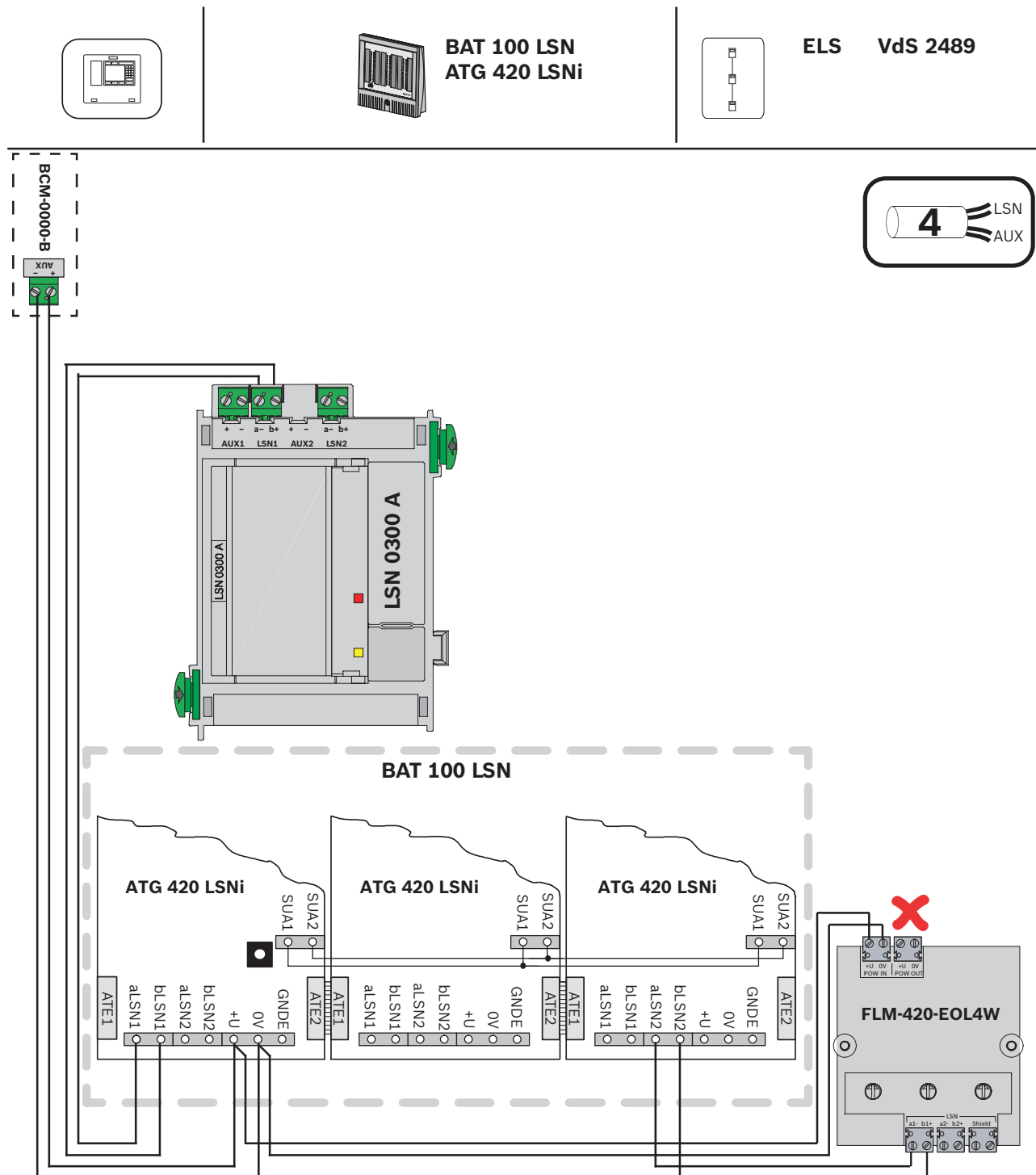


BAT 100 LSN
ATG 420 LSNi



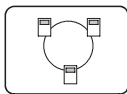
ELS VdS 2489



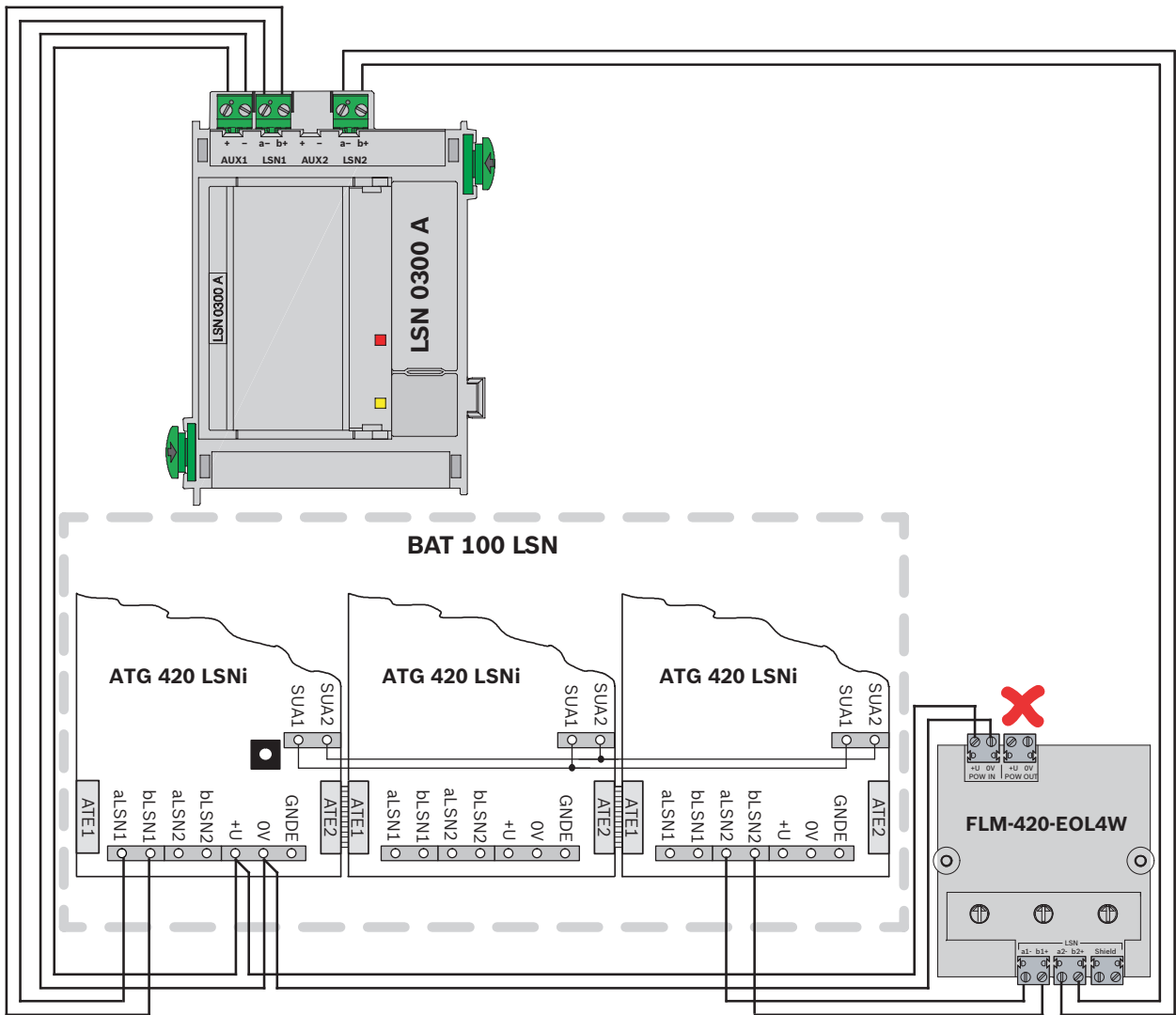




BAT 100 LSN
ATG 420 LSNi

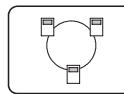


ELS VdS 2489

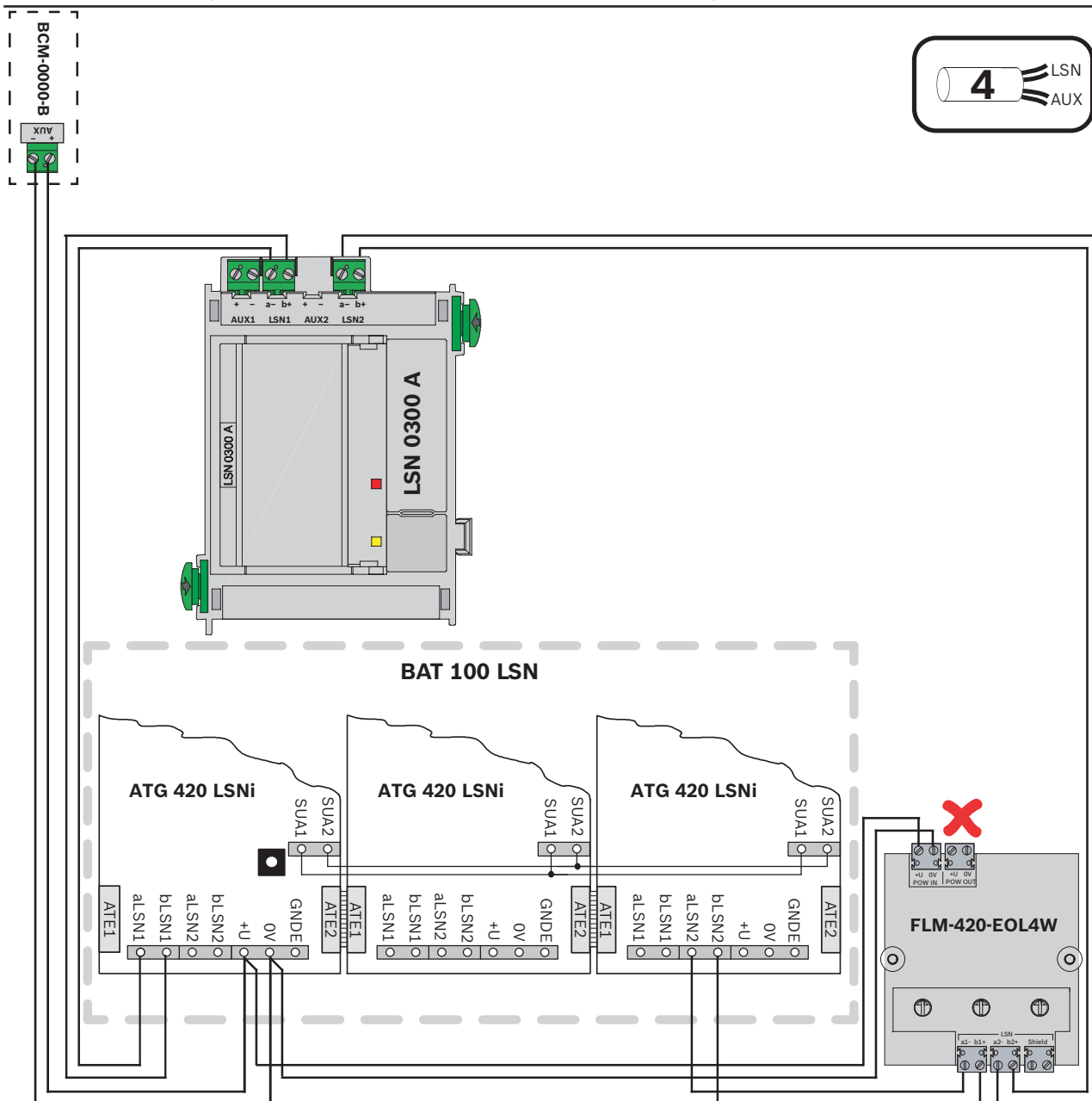


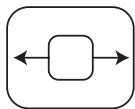
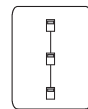
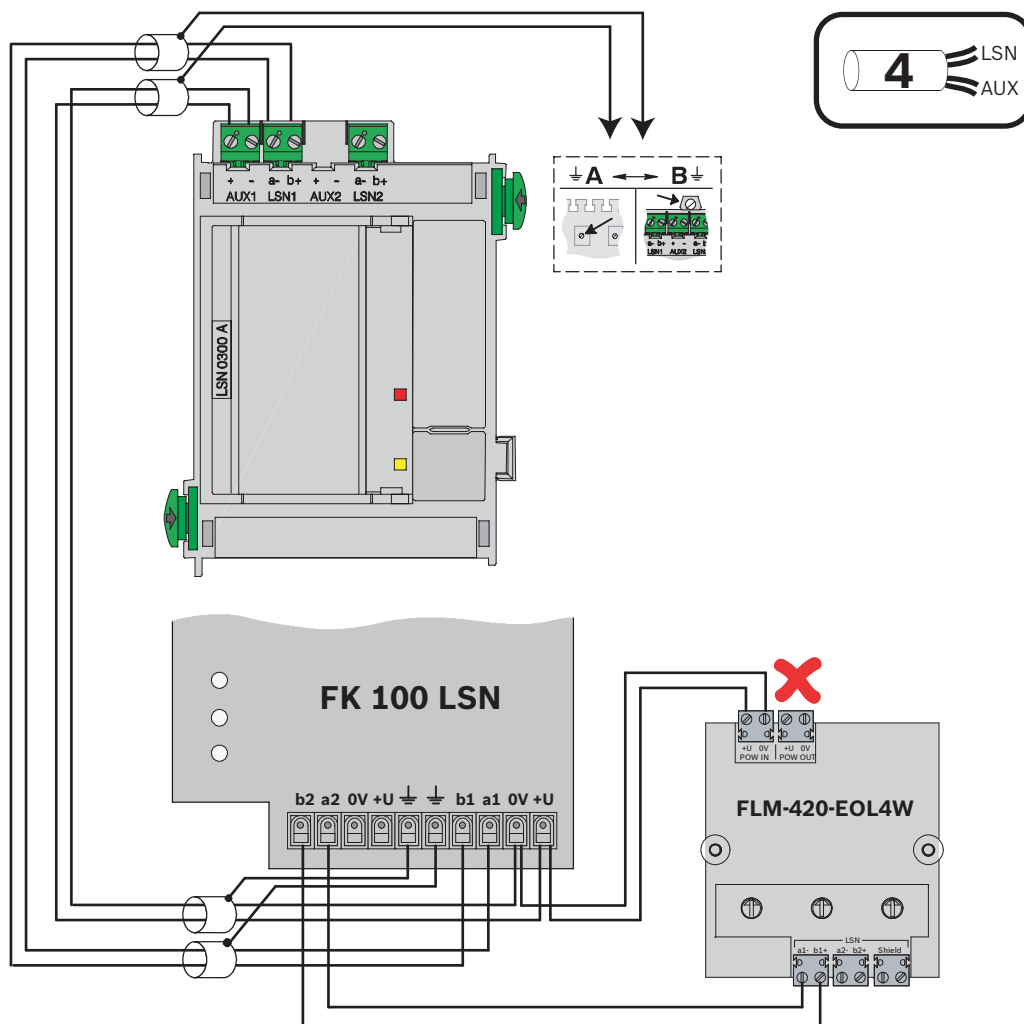
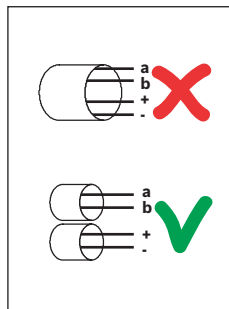


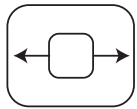
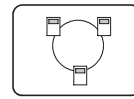
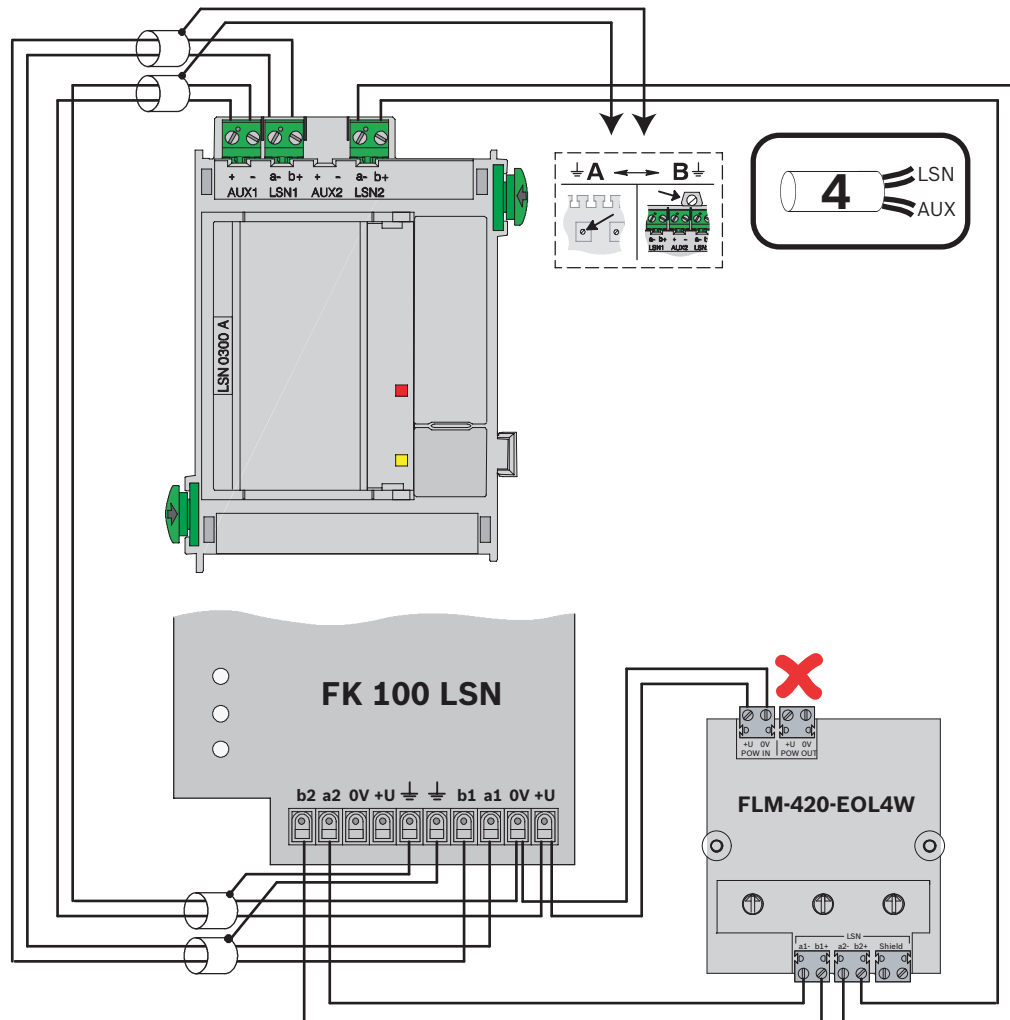
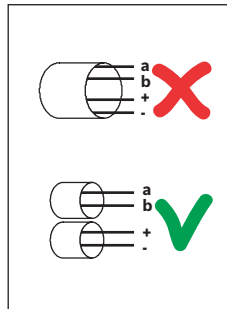
BAT 100 LSN
ATG 420 LSNi



ELS VdS 2489



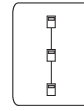
**FK 100 LSN****ELS VdS 2489**

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

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

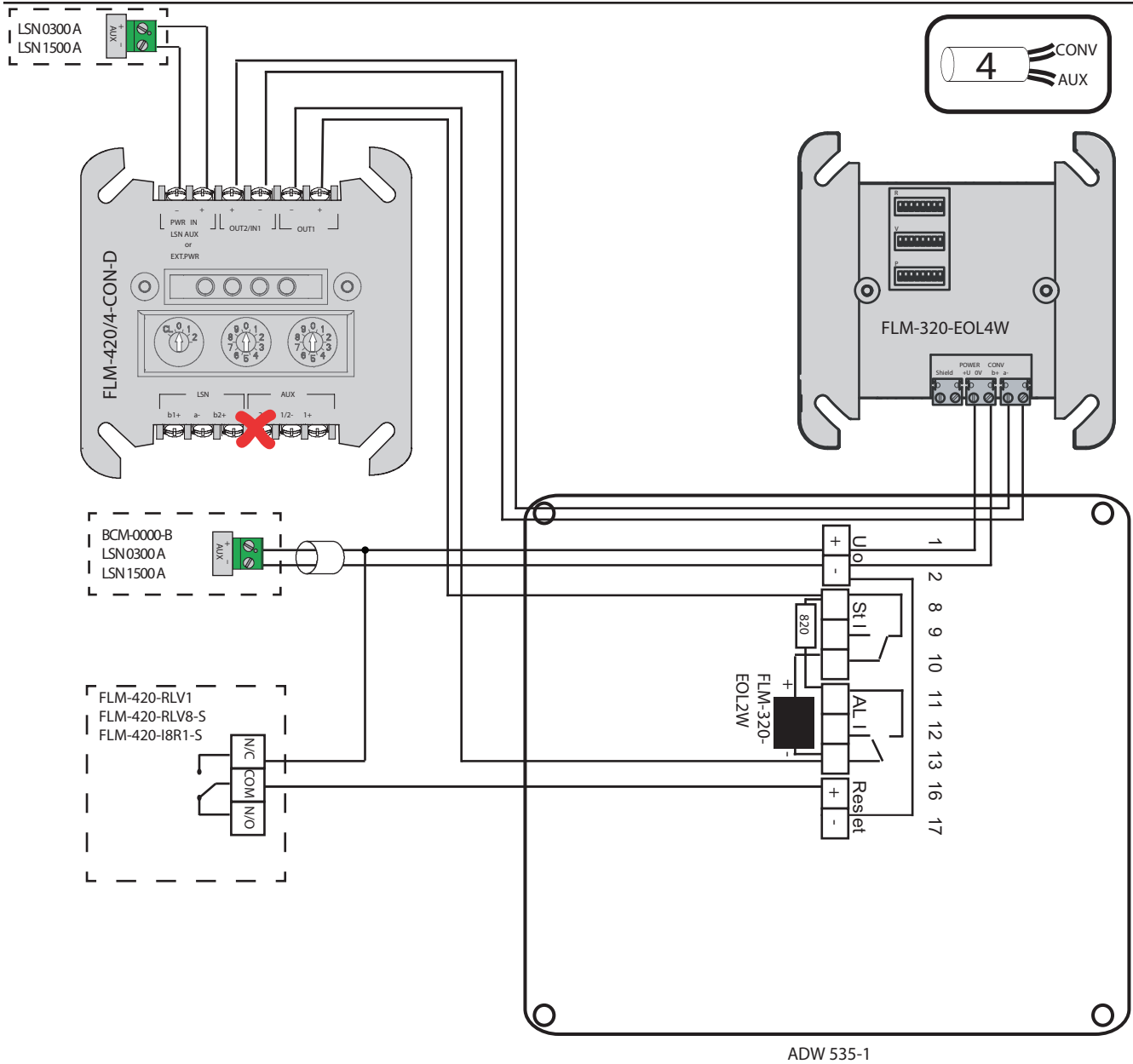


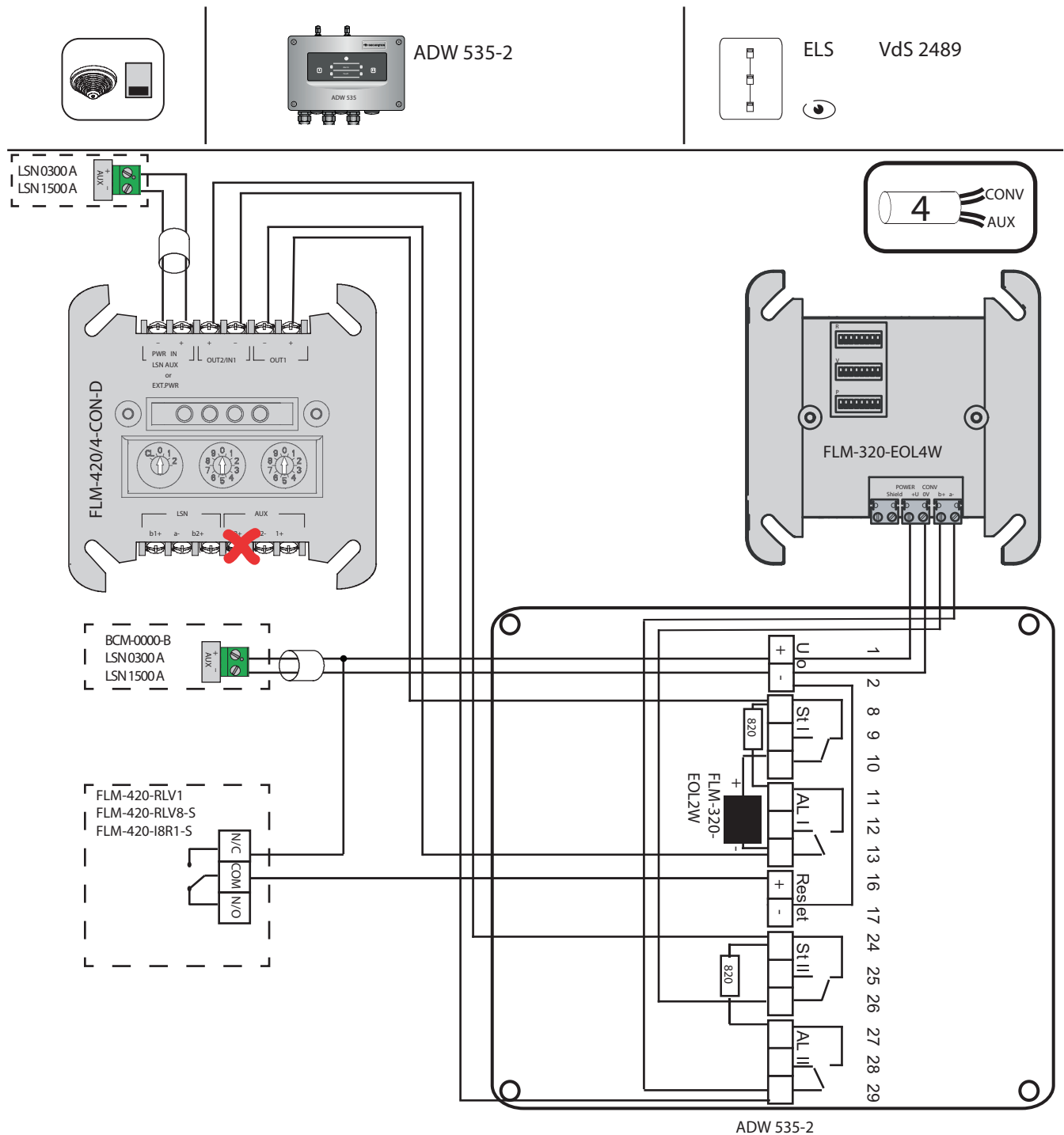
ADW 535-1



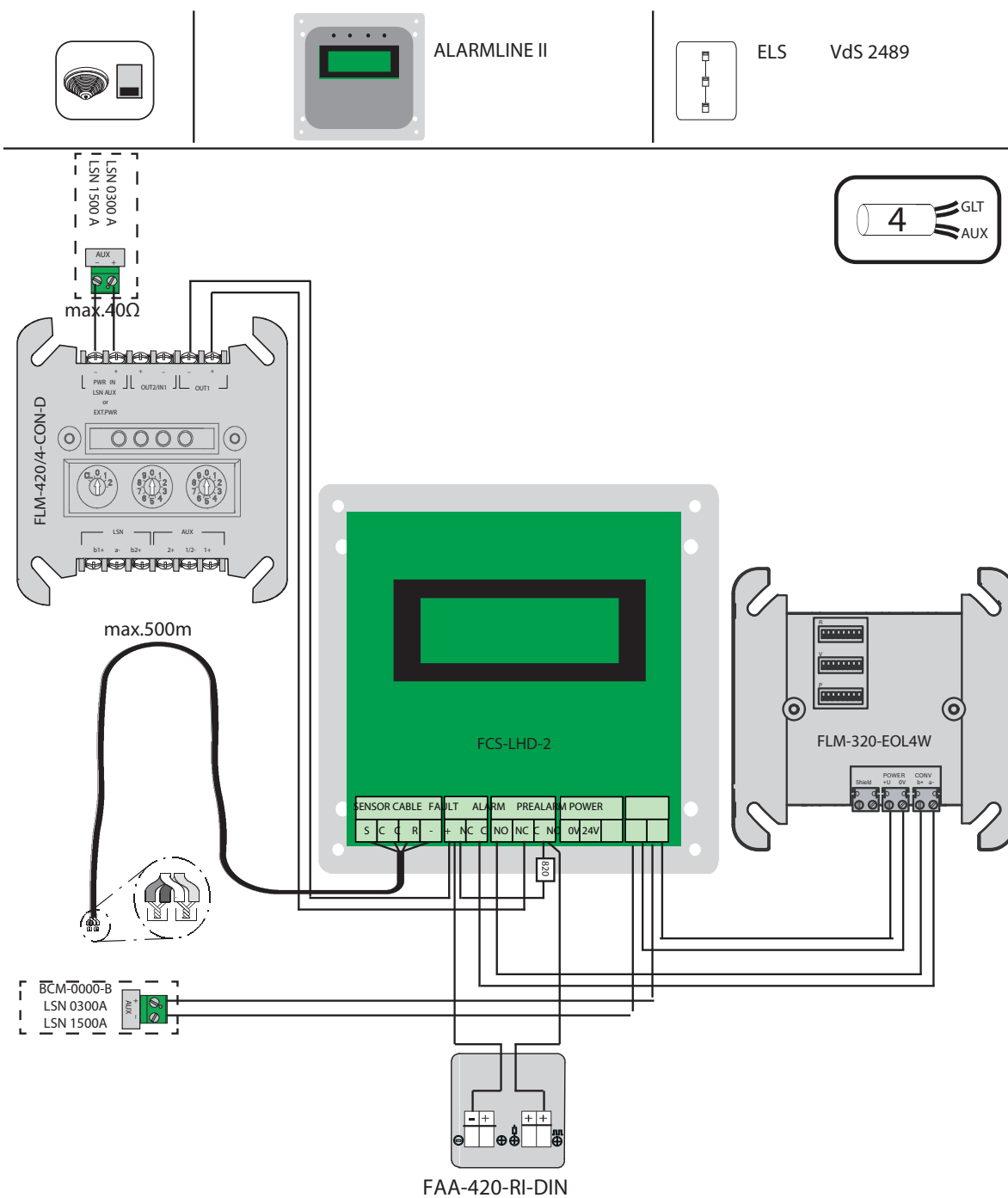
ELS

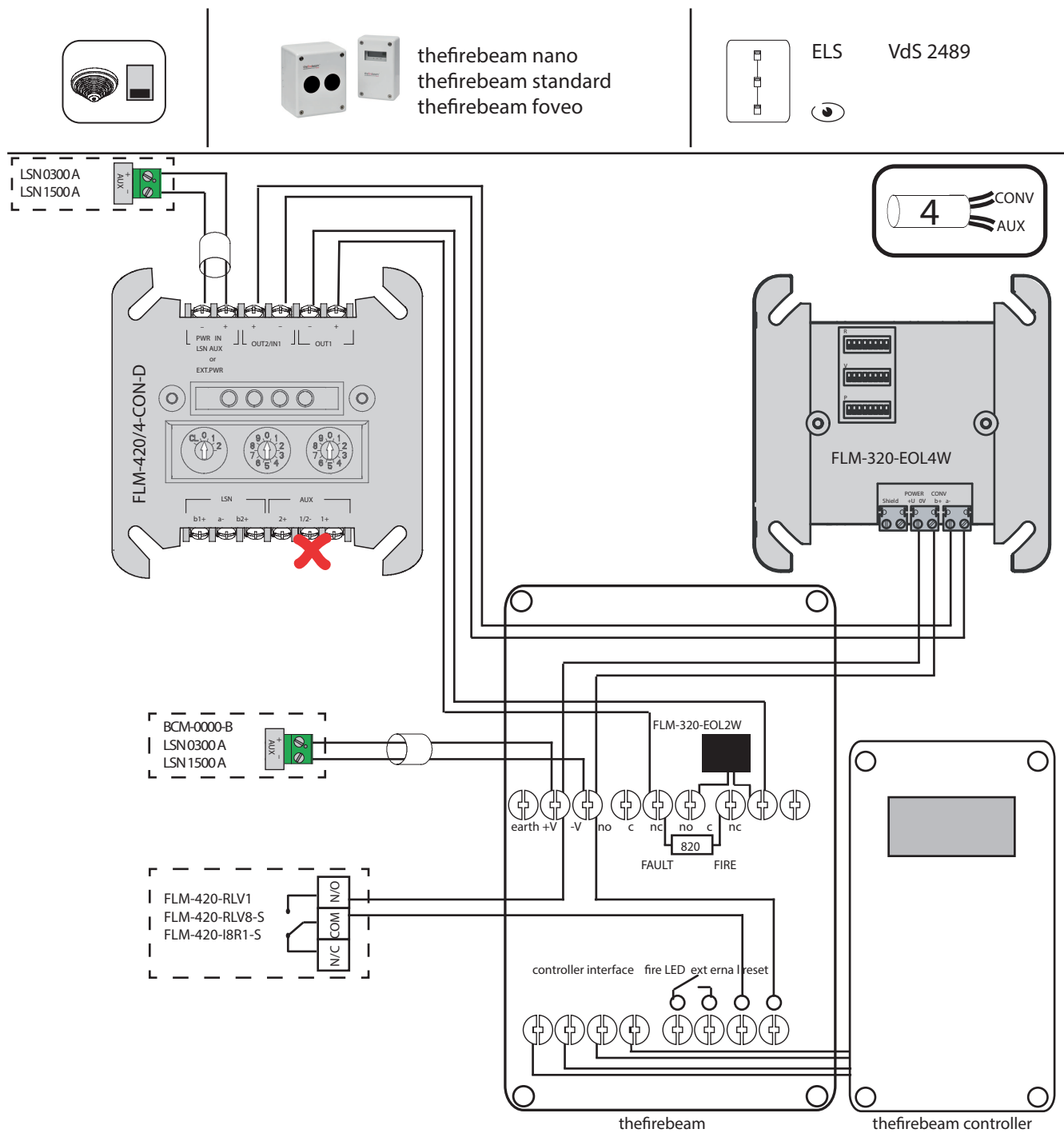
VdS 2489

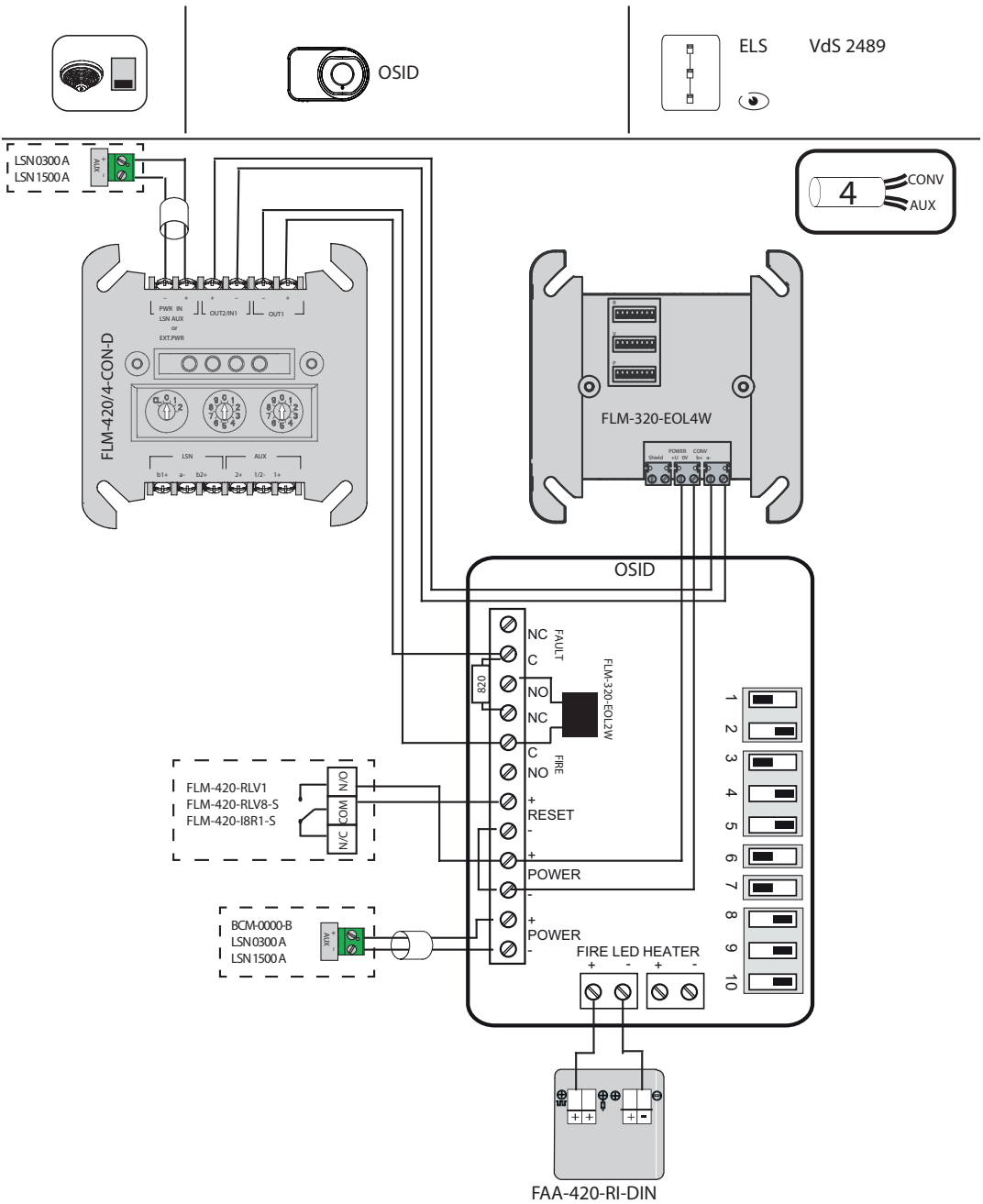




ADW 535-2

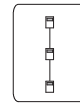






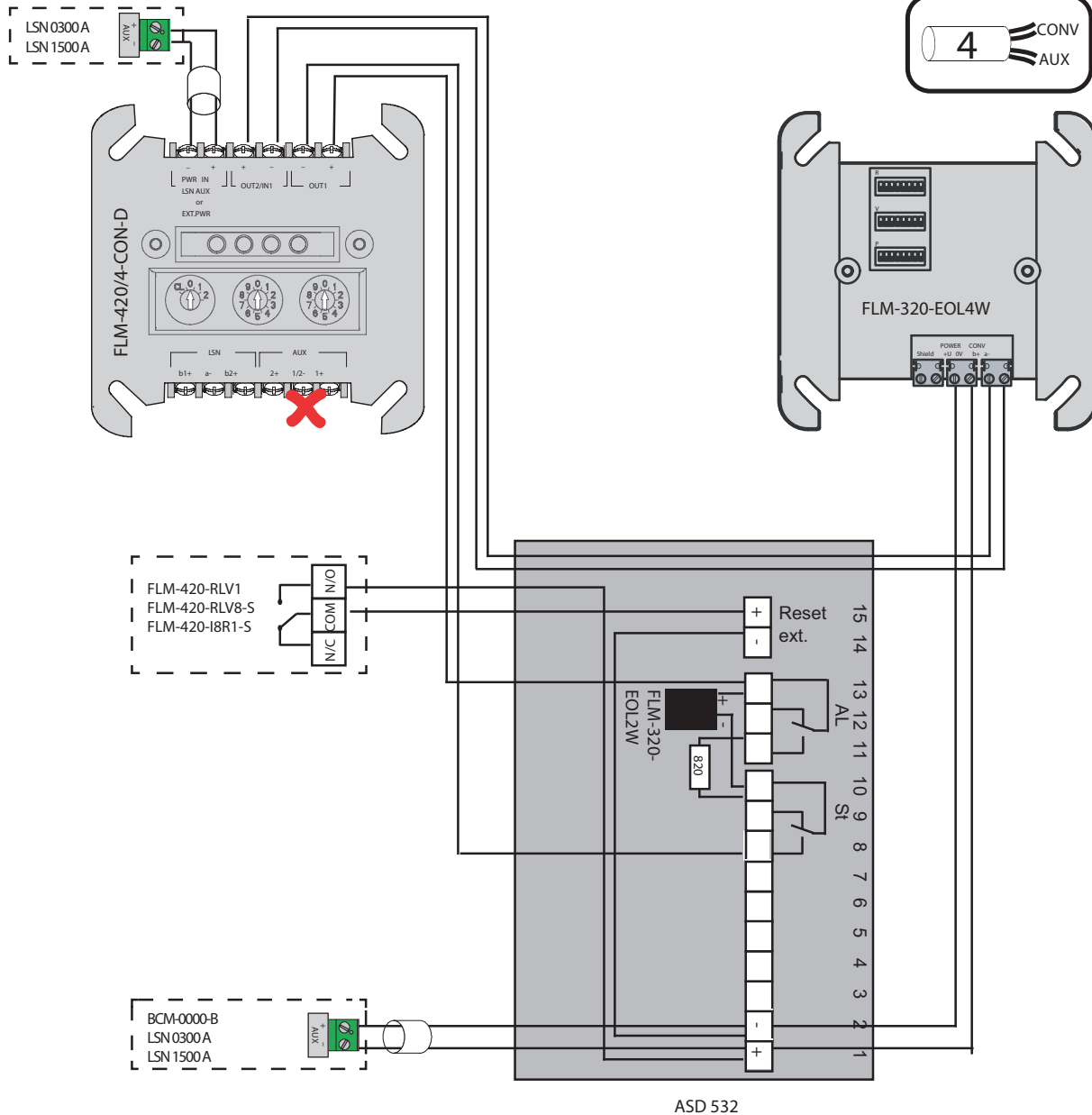


ASD 532



ELS

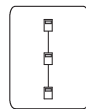
VdS 2489



ASD 532



ASD 535-1

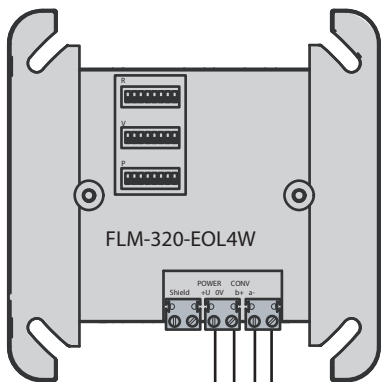
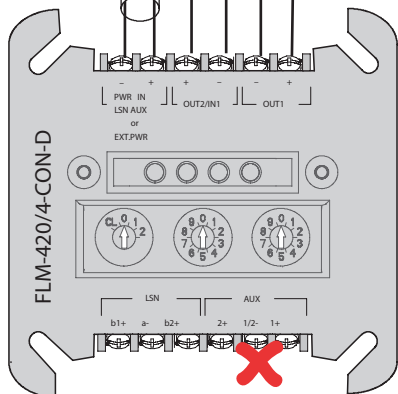


ELS

VdS 2489

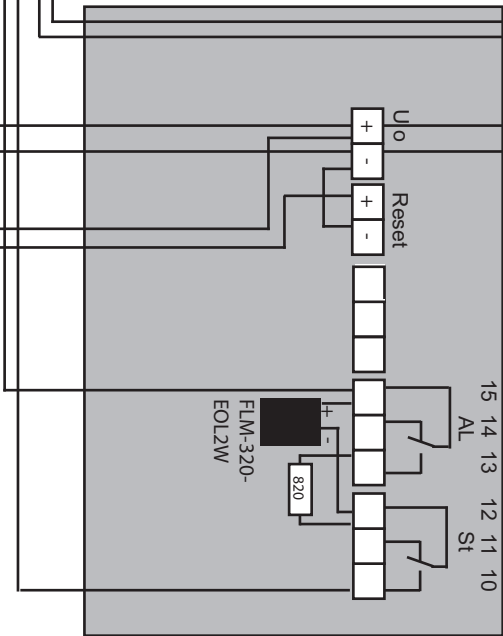


LSN 0300 A
LSN 1500 A



BCM-0000-B
LSN 0300 A
LSN 1500 A

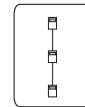
FLM-420-RLV1
FLM-420-RLV8-S
FLM-420-I8R1-S



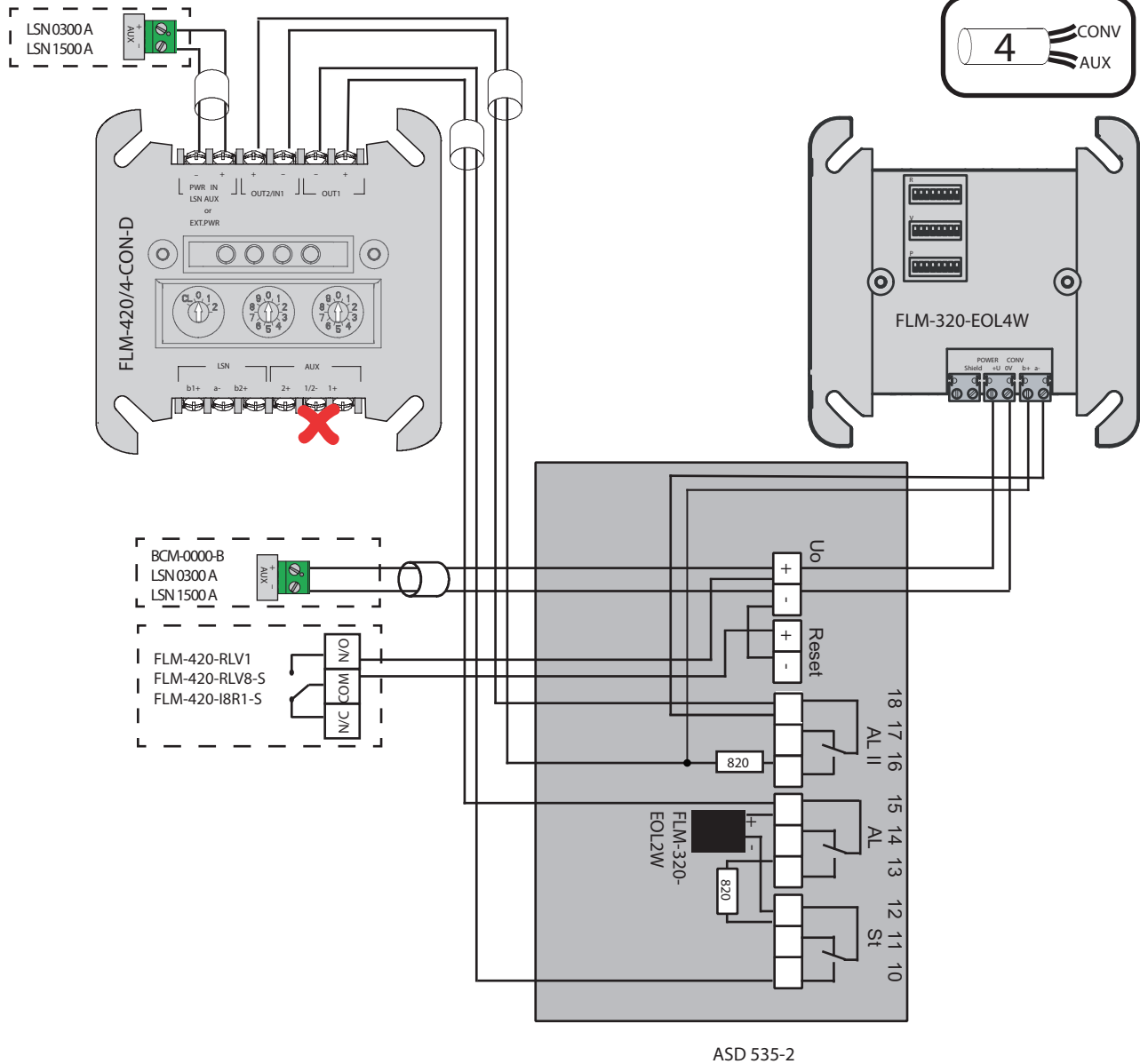
ASD 535-1



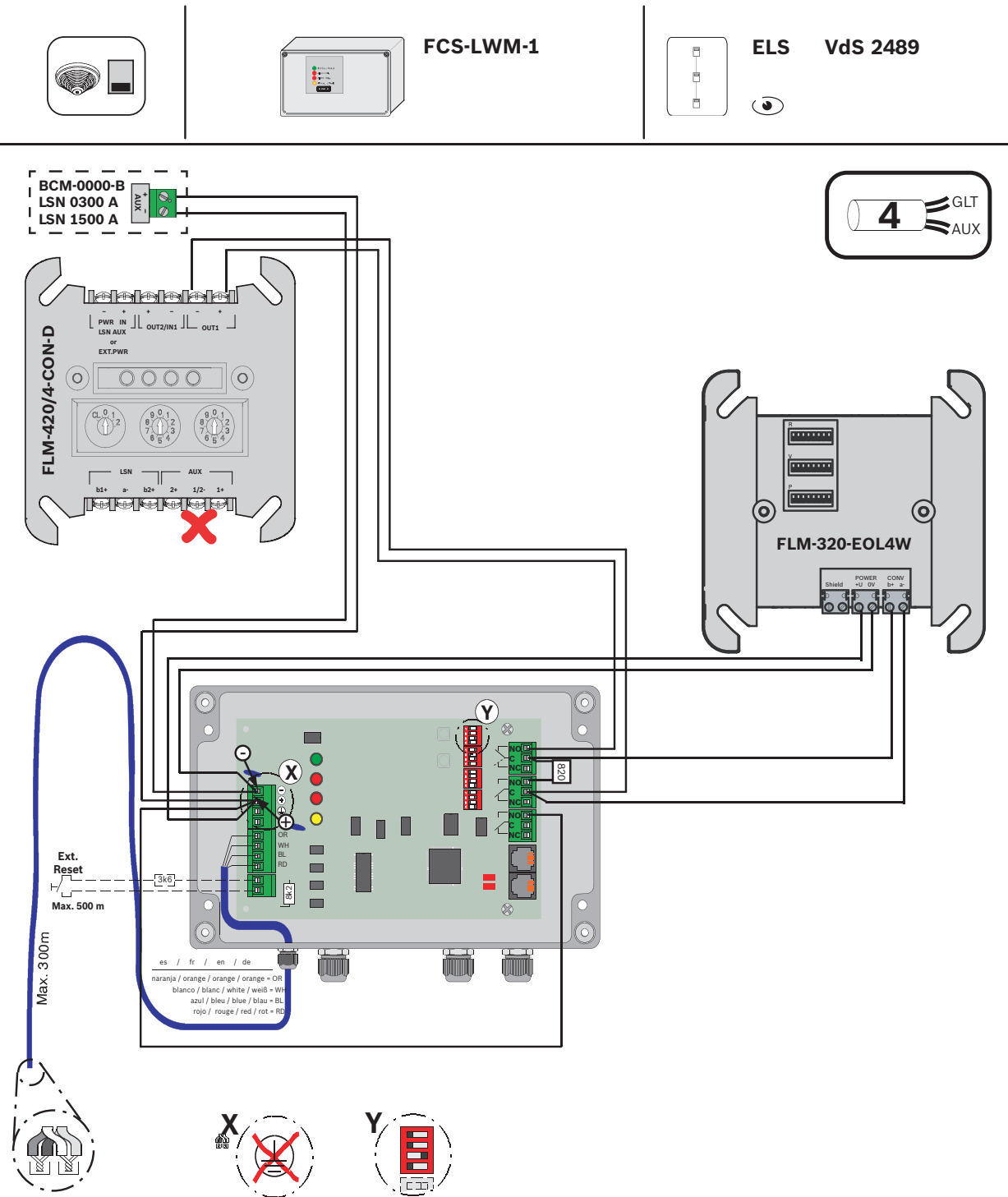
ASD 535-2

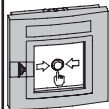
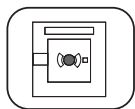


ELS VdS 2489

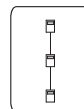


ASD 535-2



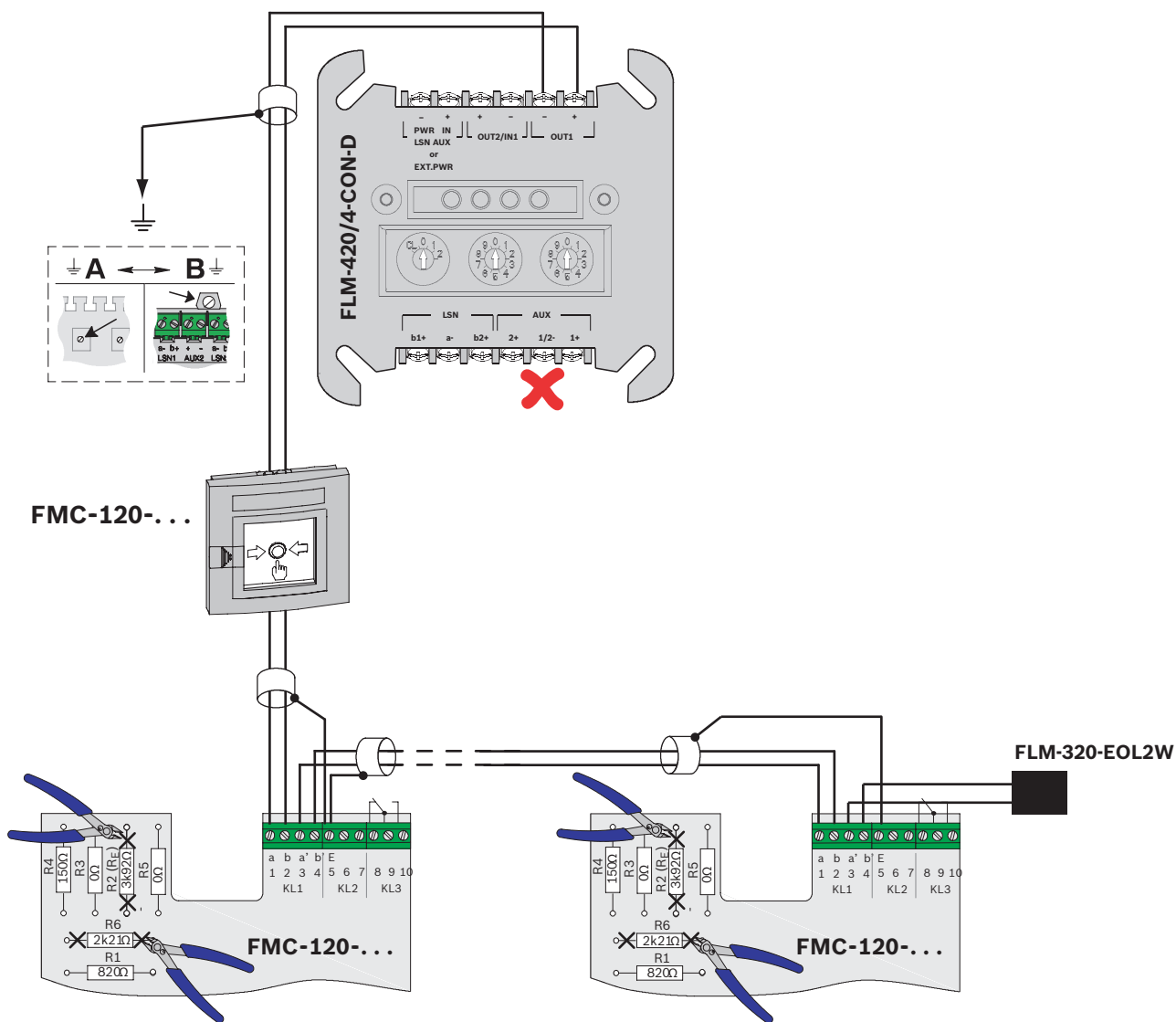


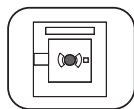
FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



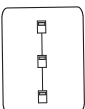
ELS

VdS 2489

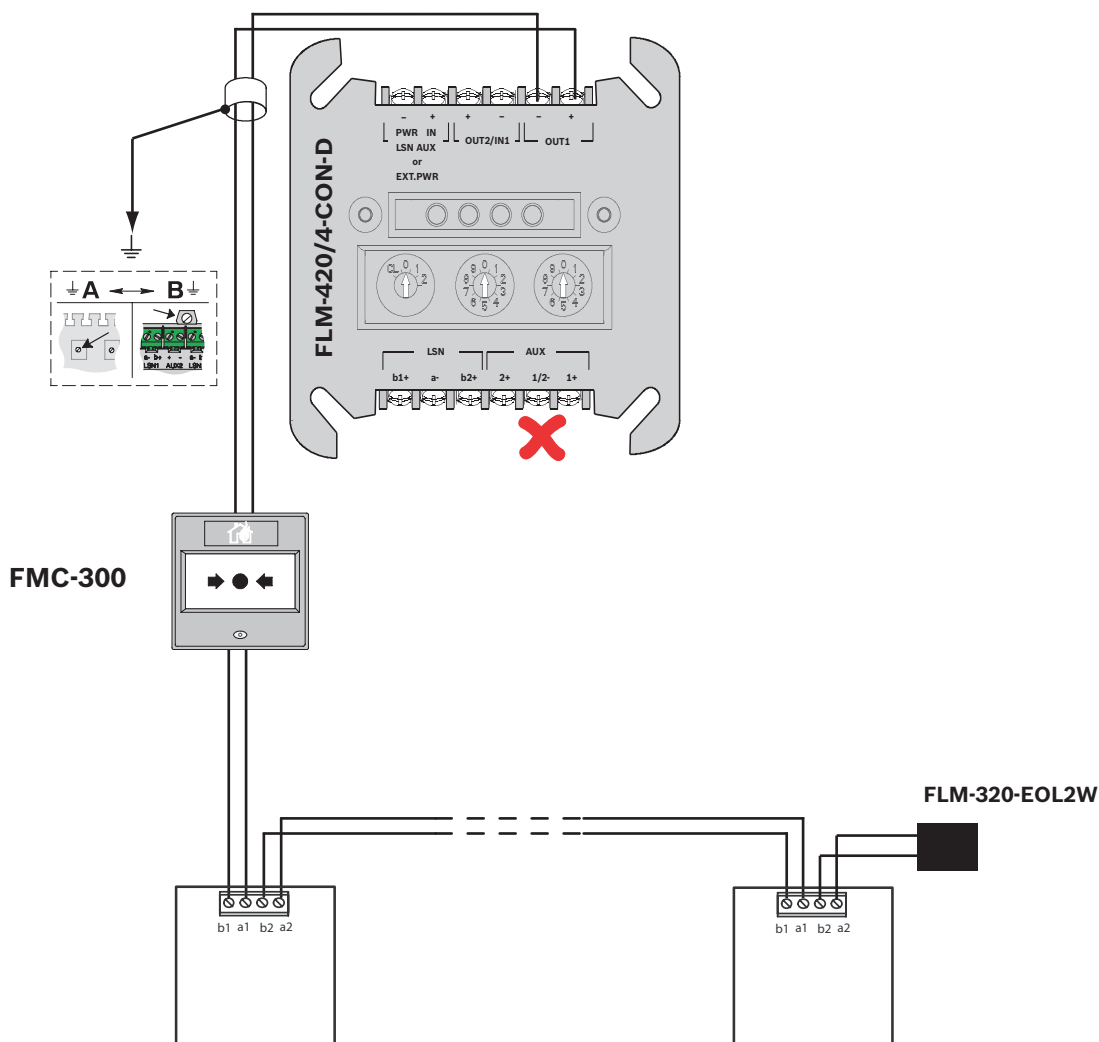




FMC-300



ELS VdS 2489

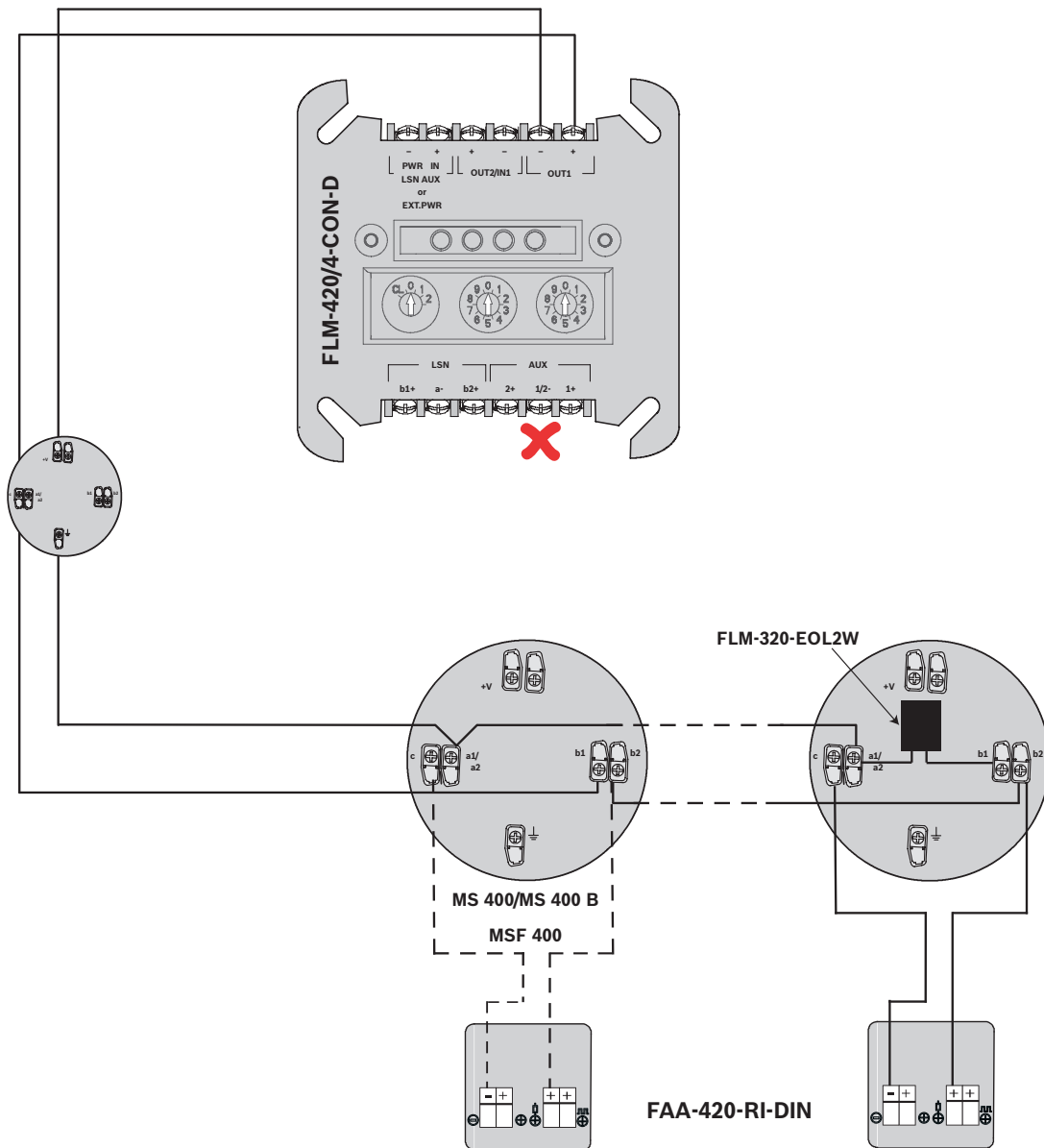




FAP-425-O/-O-R/-OT/-OT-R/-T-R
FAP-425-DO-R/-DOT-R/-DOTC-R
FCH-320-T320/-T320-R470/-T320-FSA
FCP-O320/-O320-R470
FCP-OC320/-OC320-R470
FCP-OT320/-OT320-R470



ELS VdS 2489





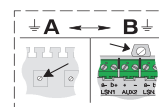
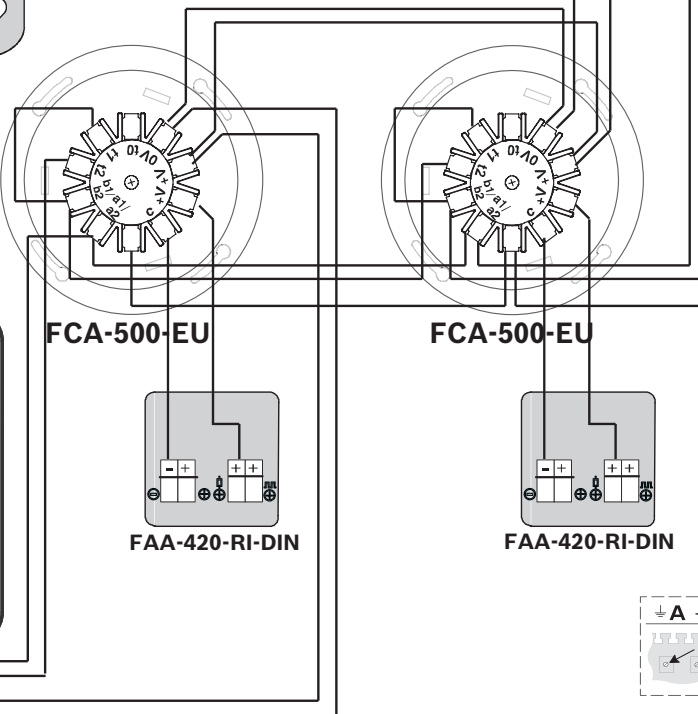
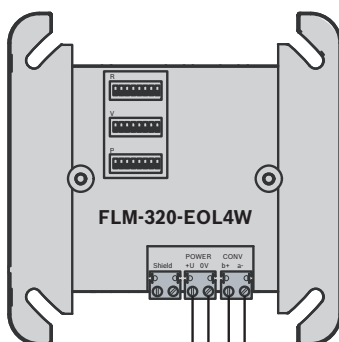
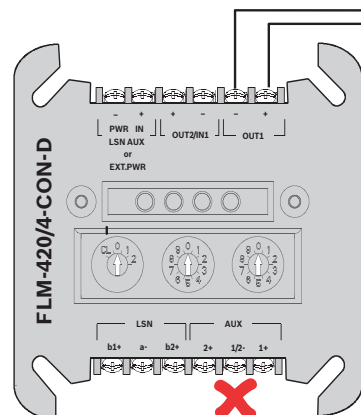
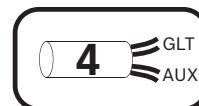
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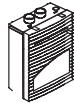


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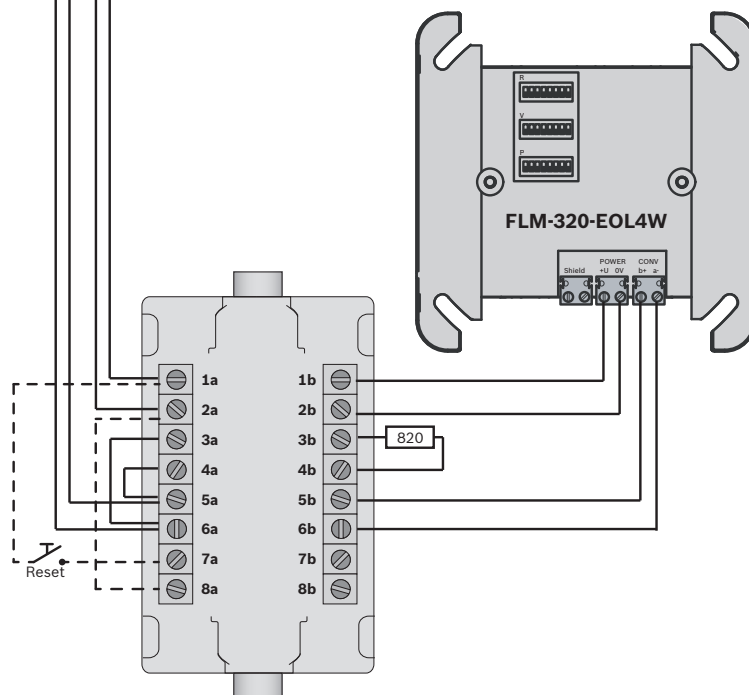
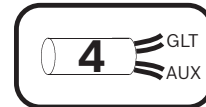
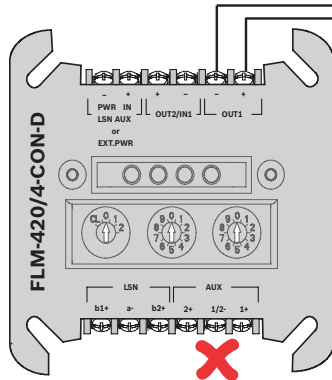


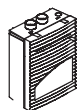
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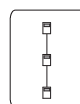
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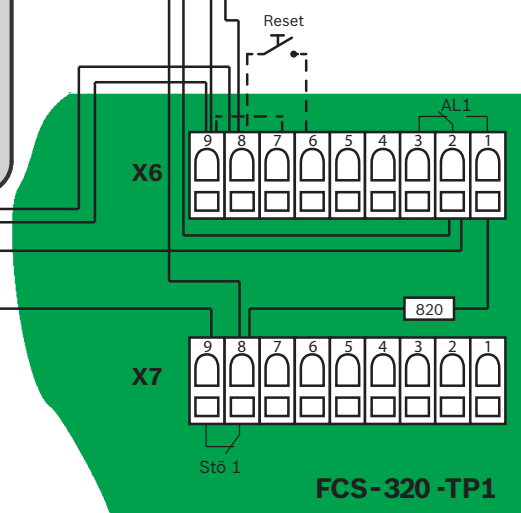
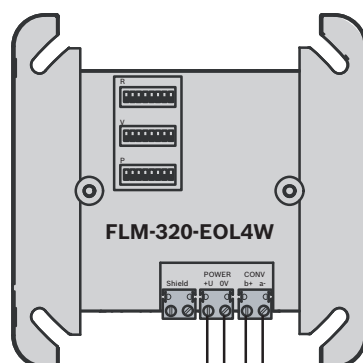
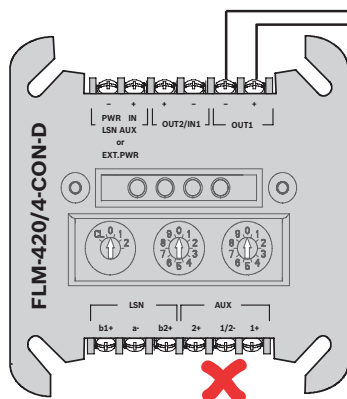
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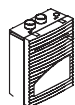


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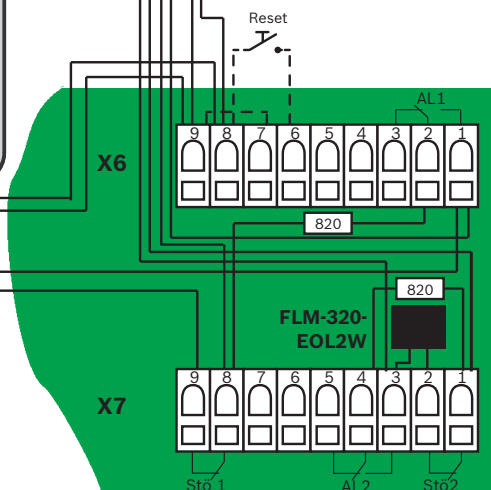
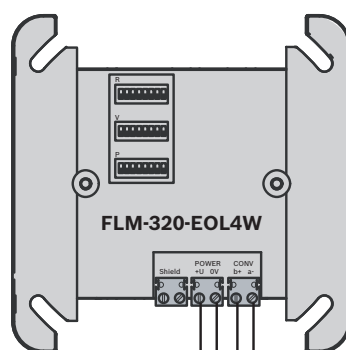
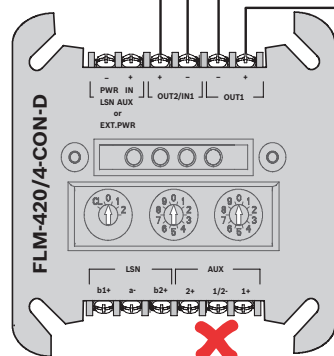
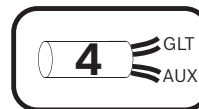
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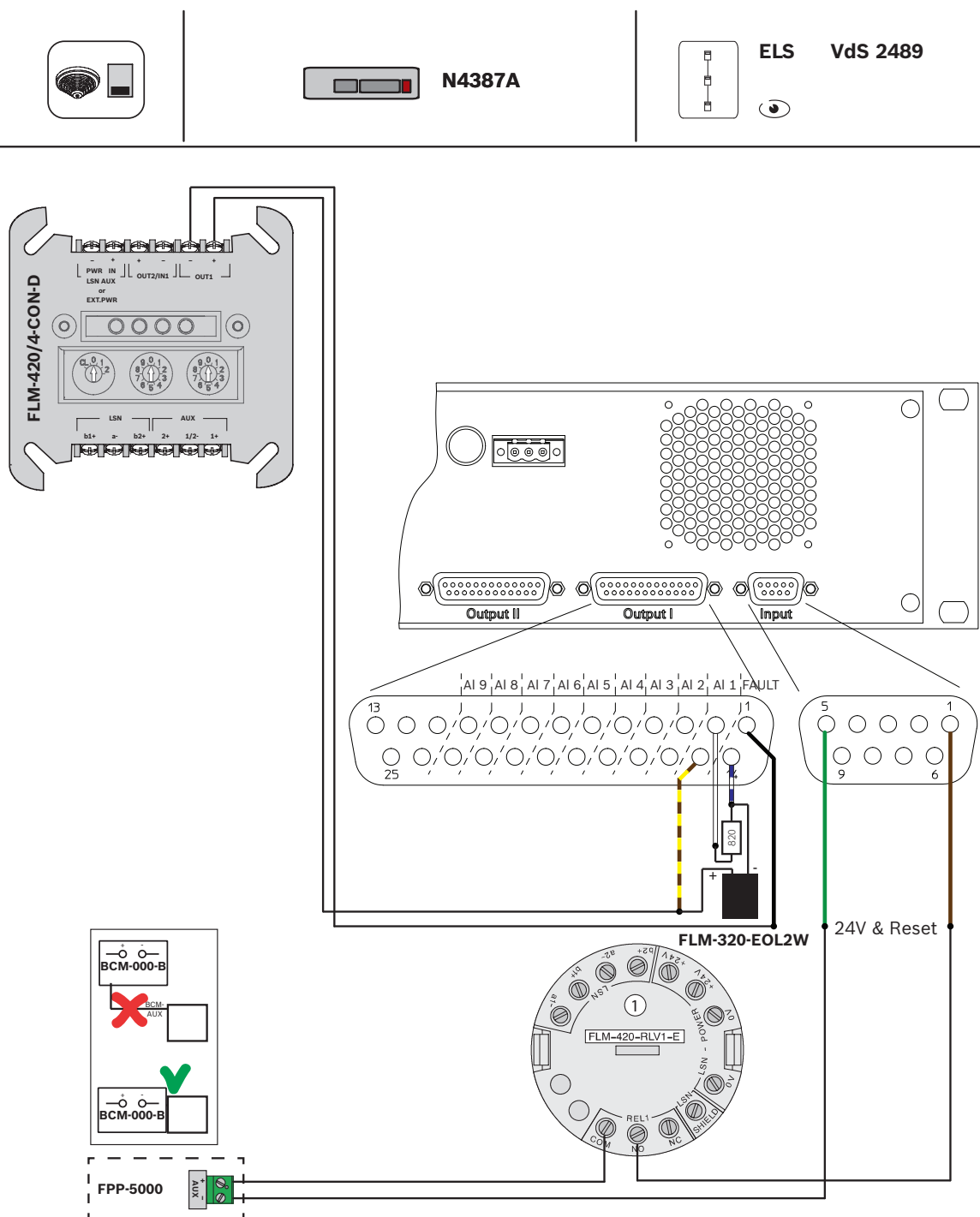
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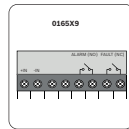


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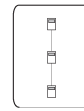


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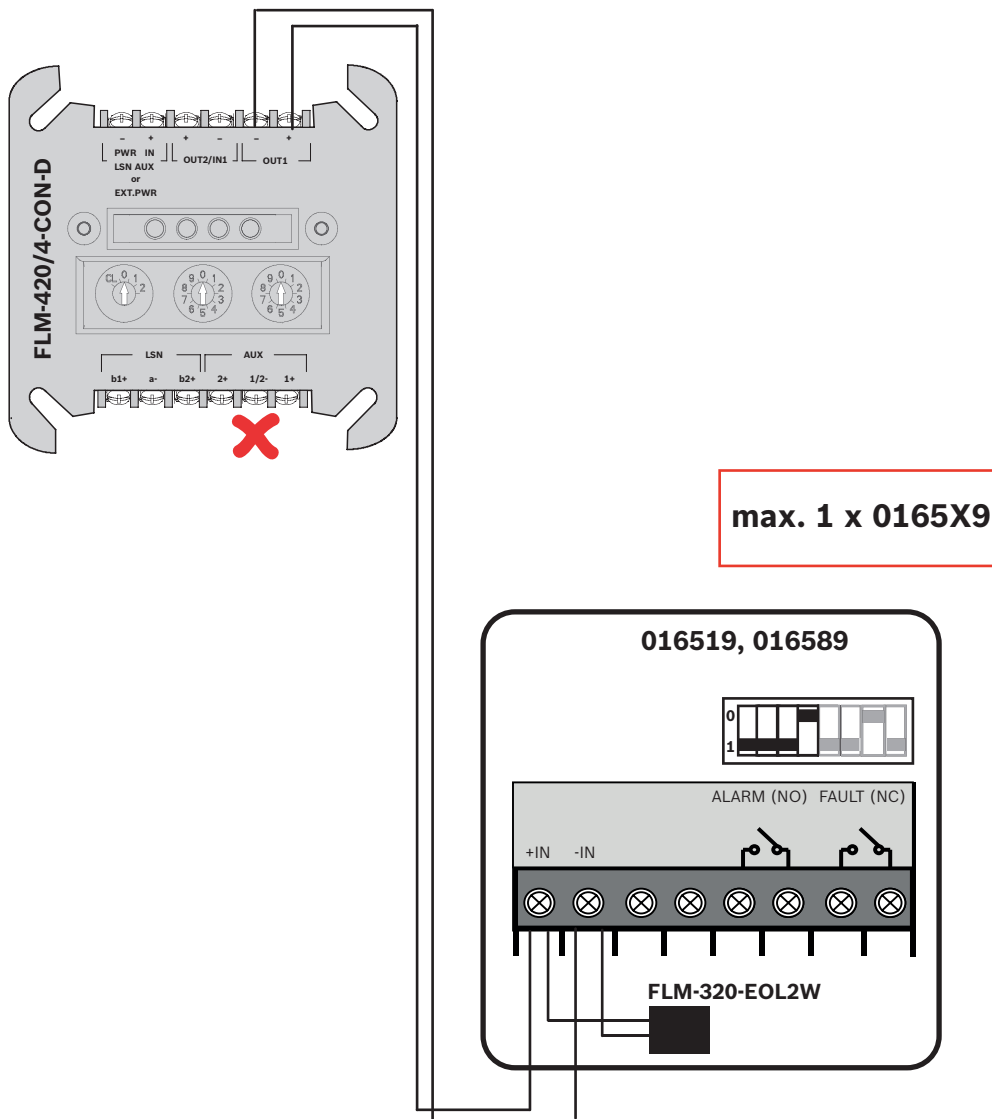


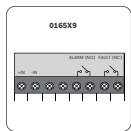


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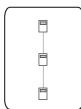


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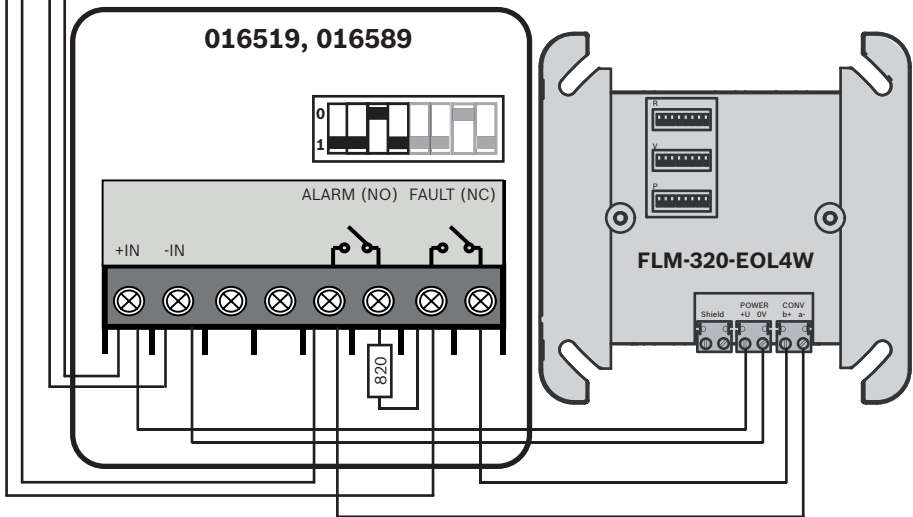
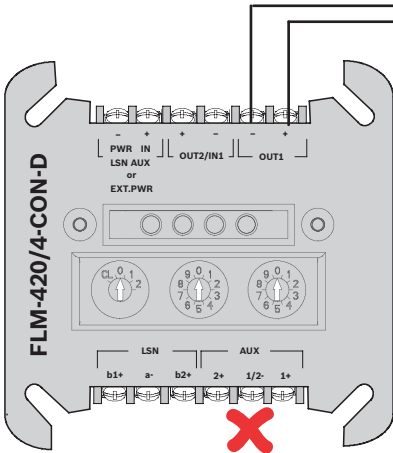
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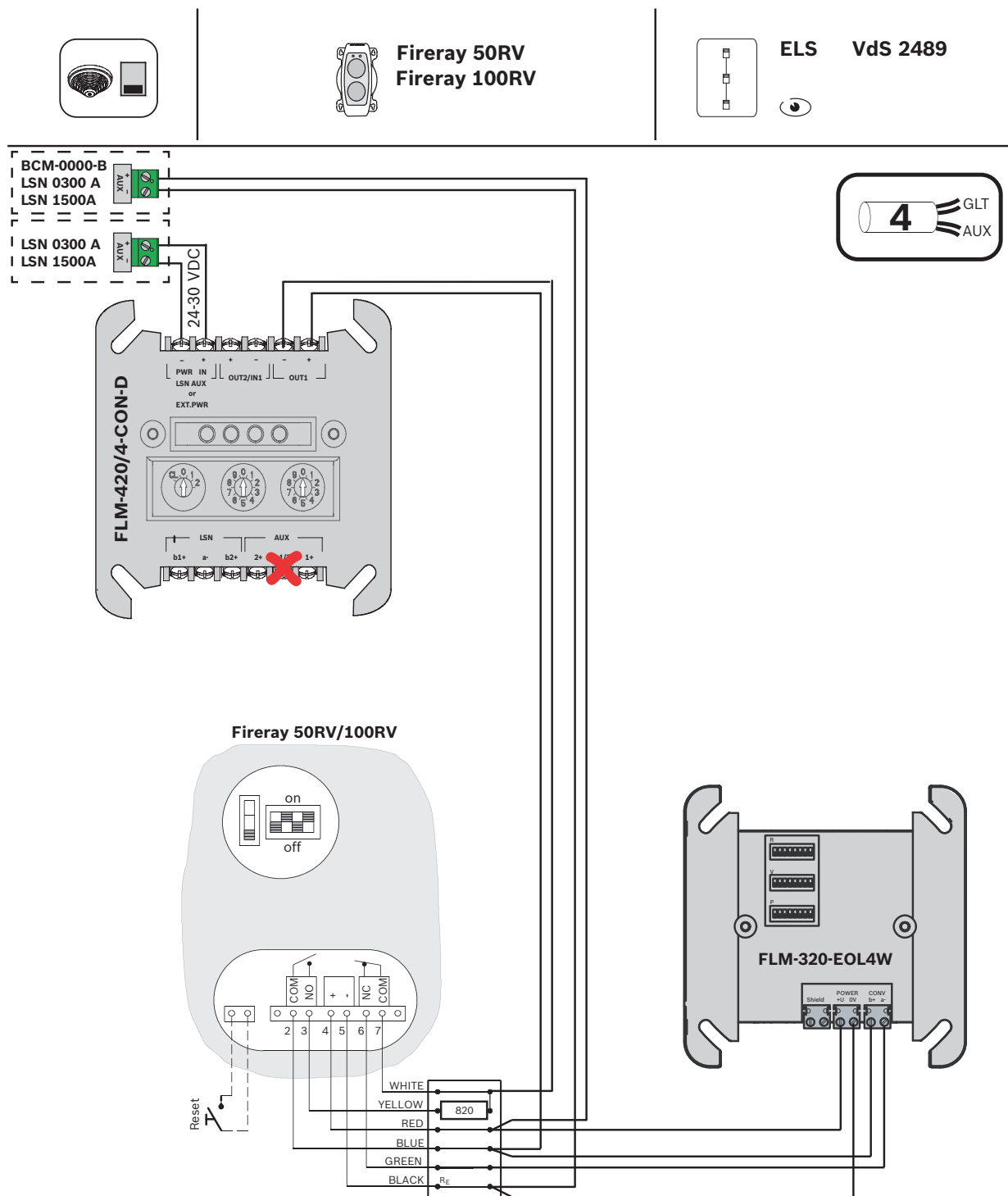


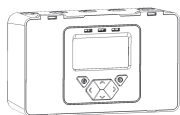
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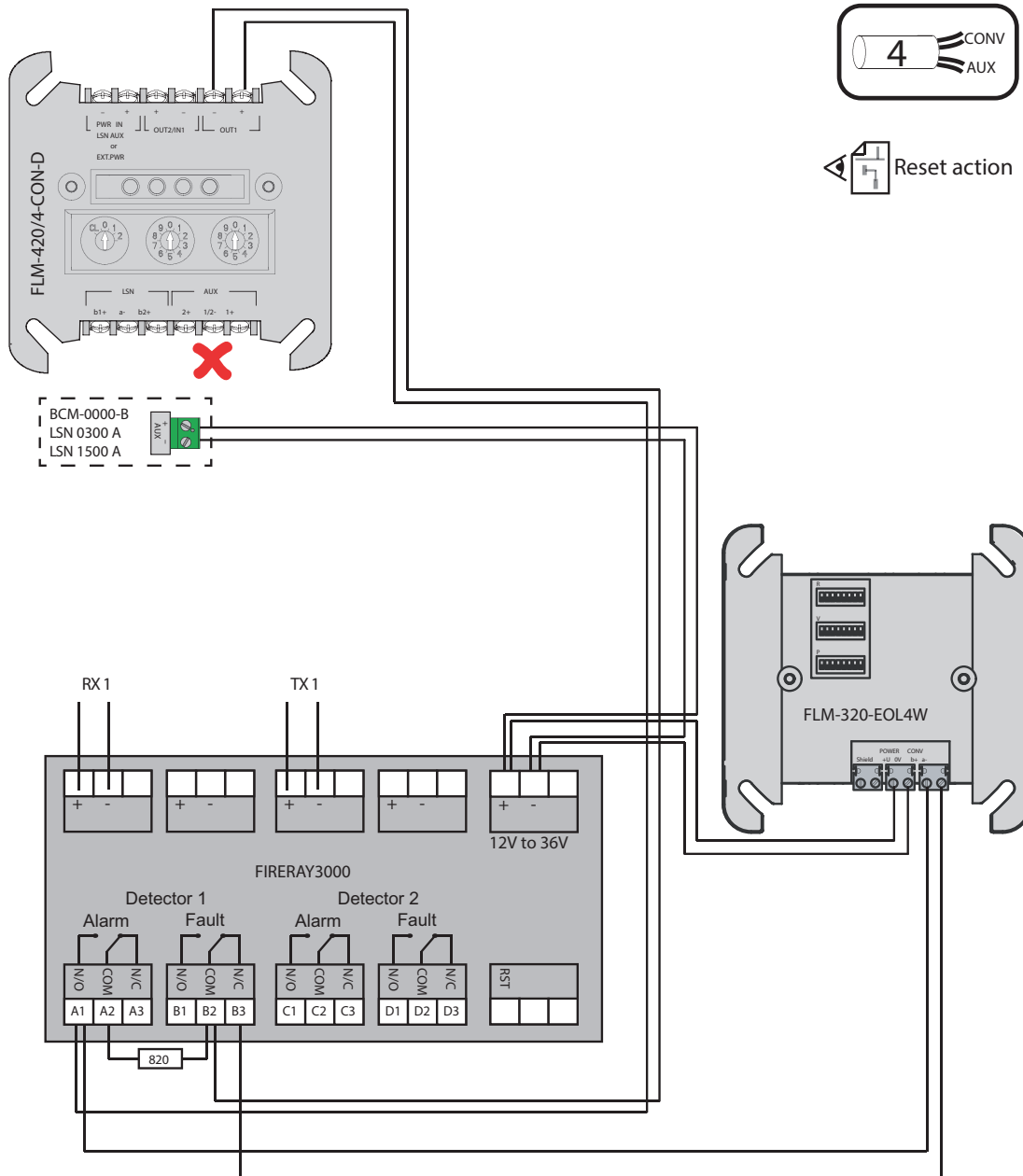
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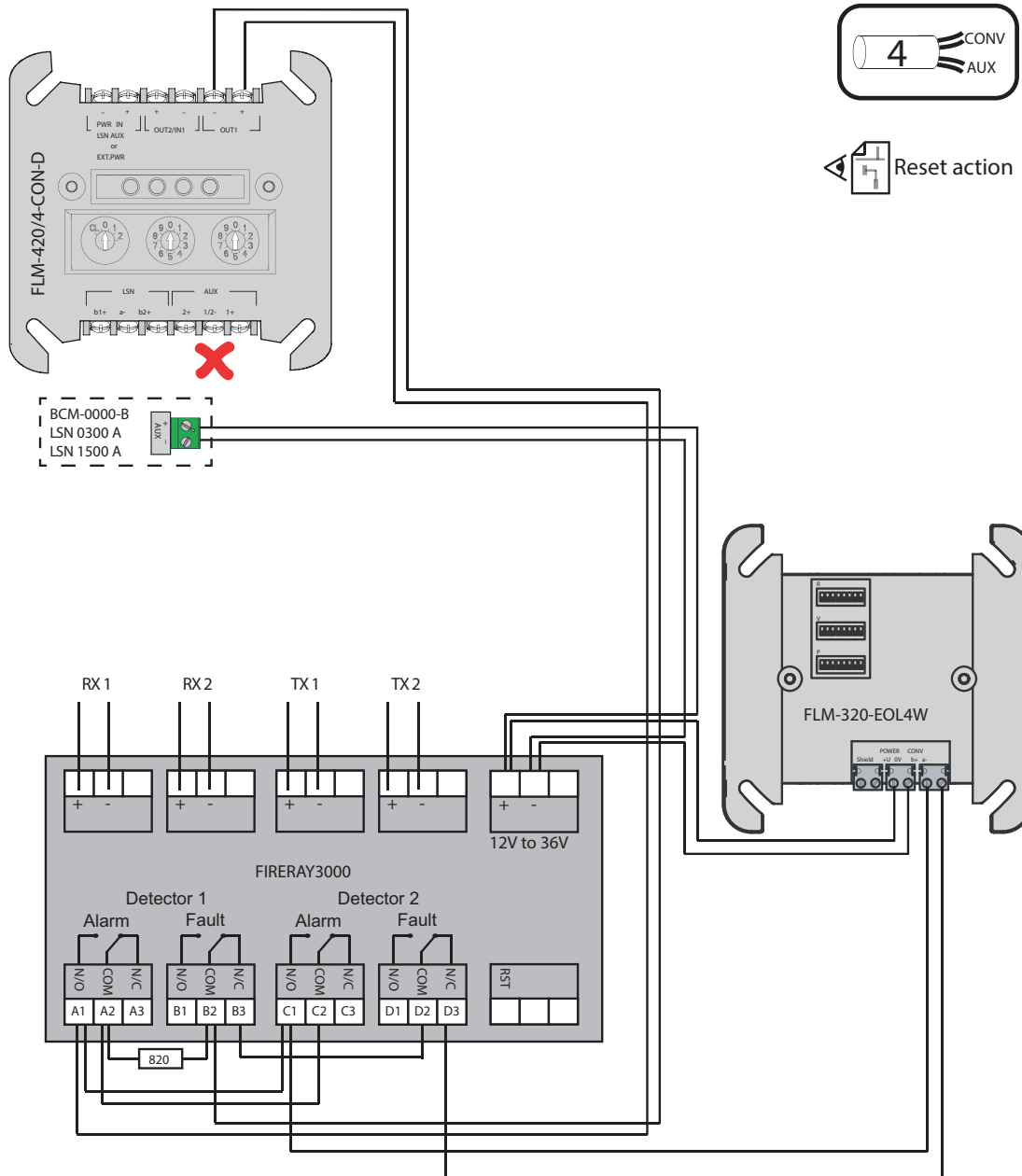
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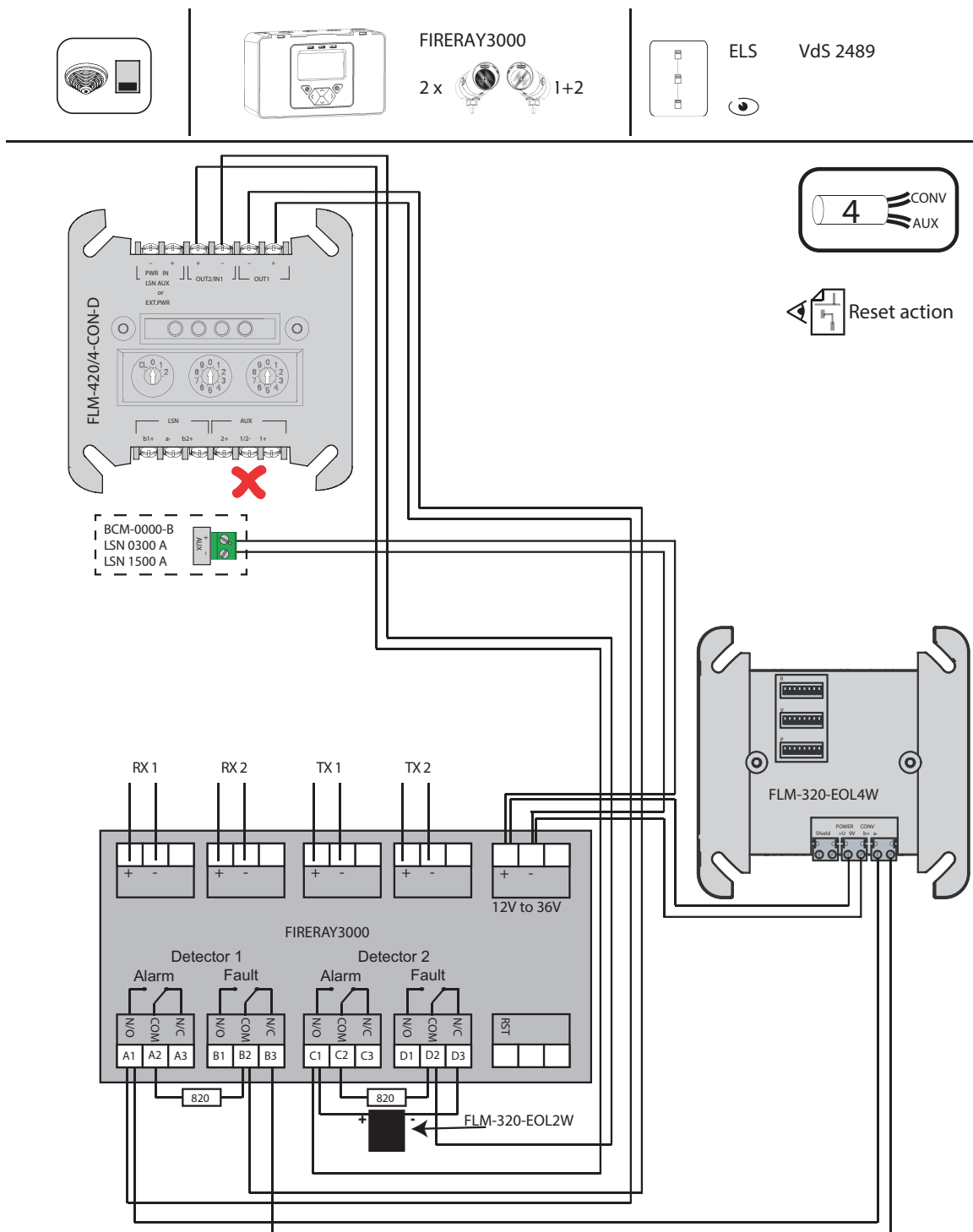
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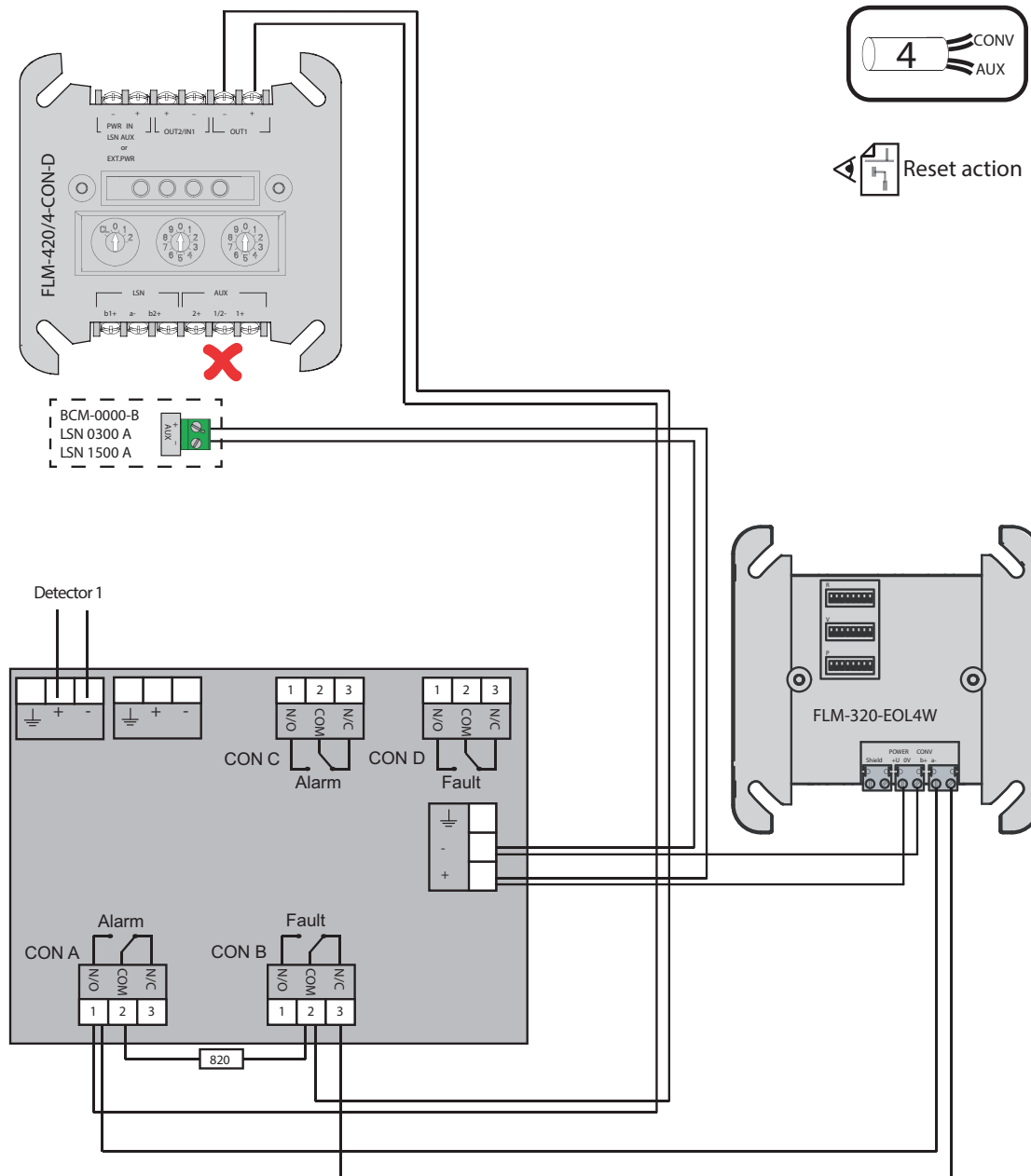
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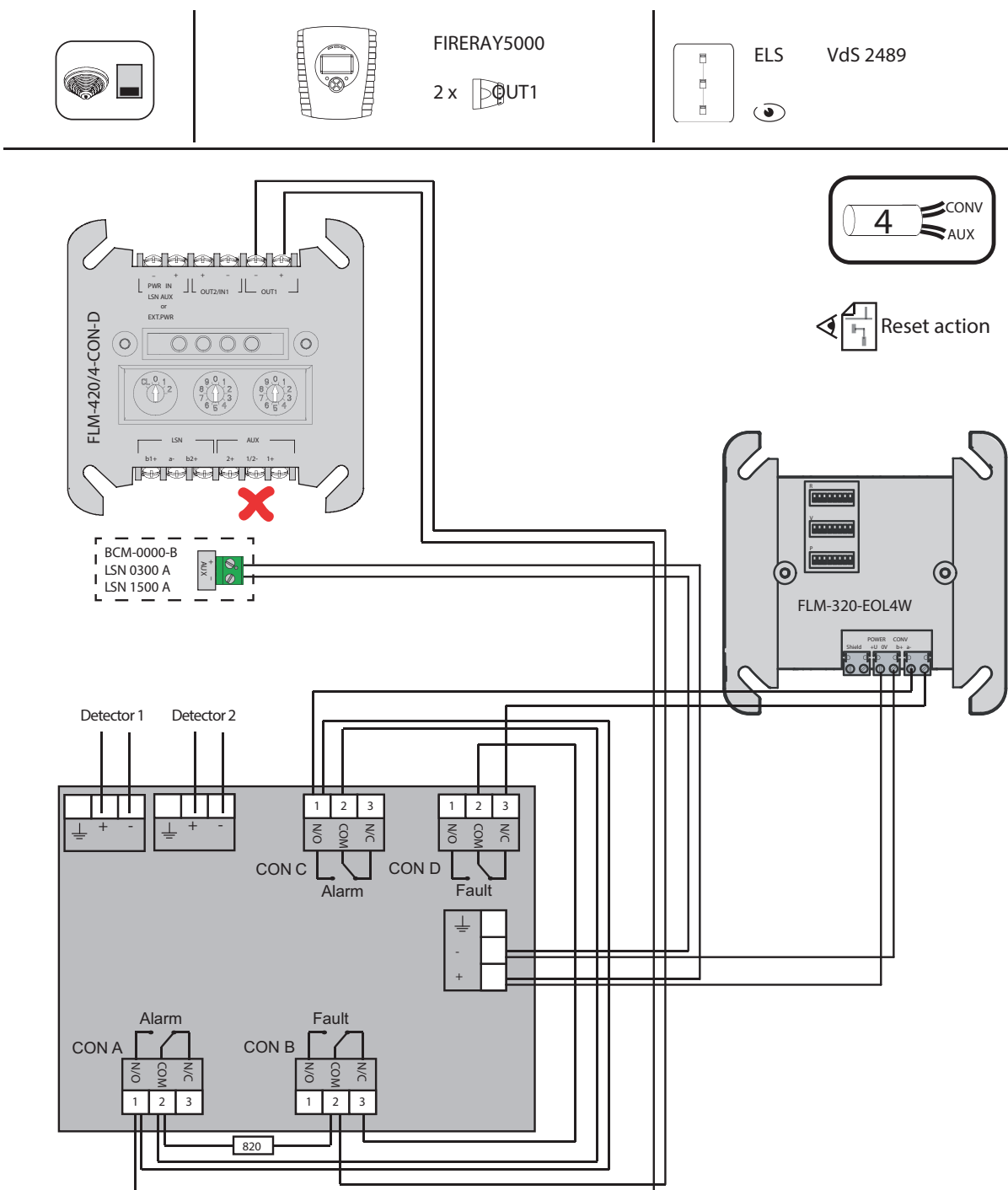
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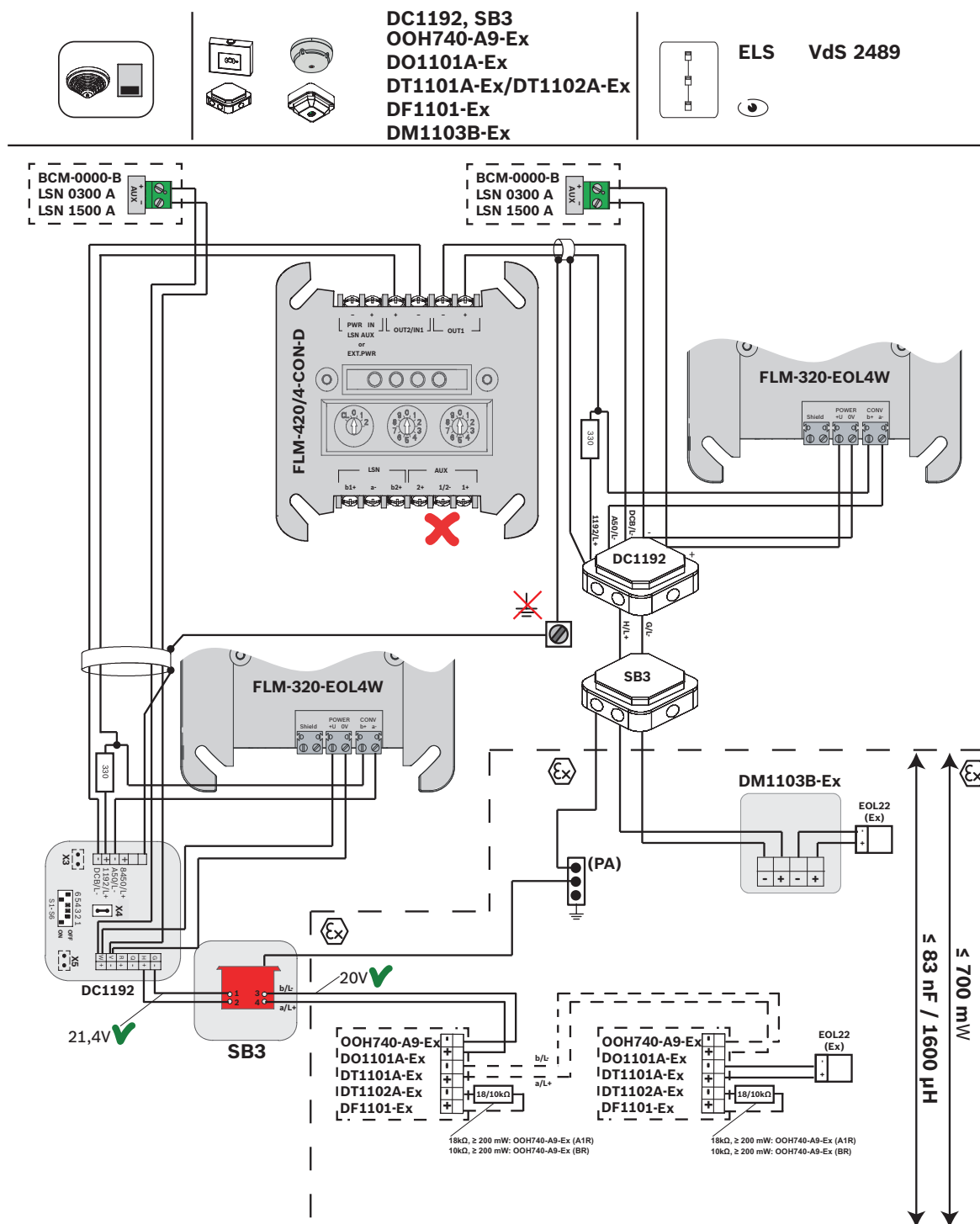


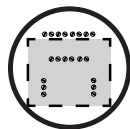
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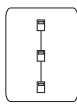




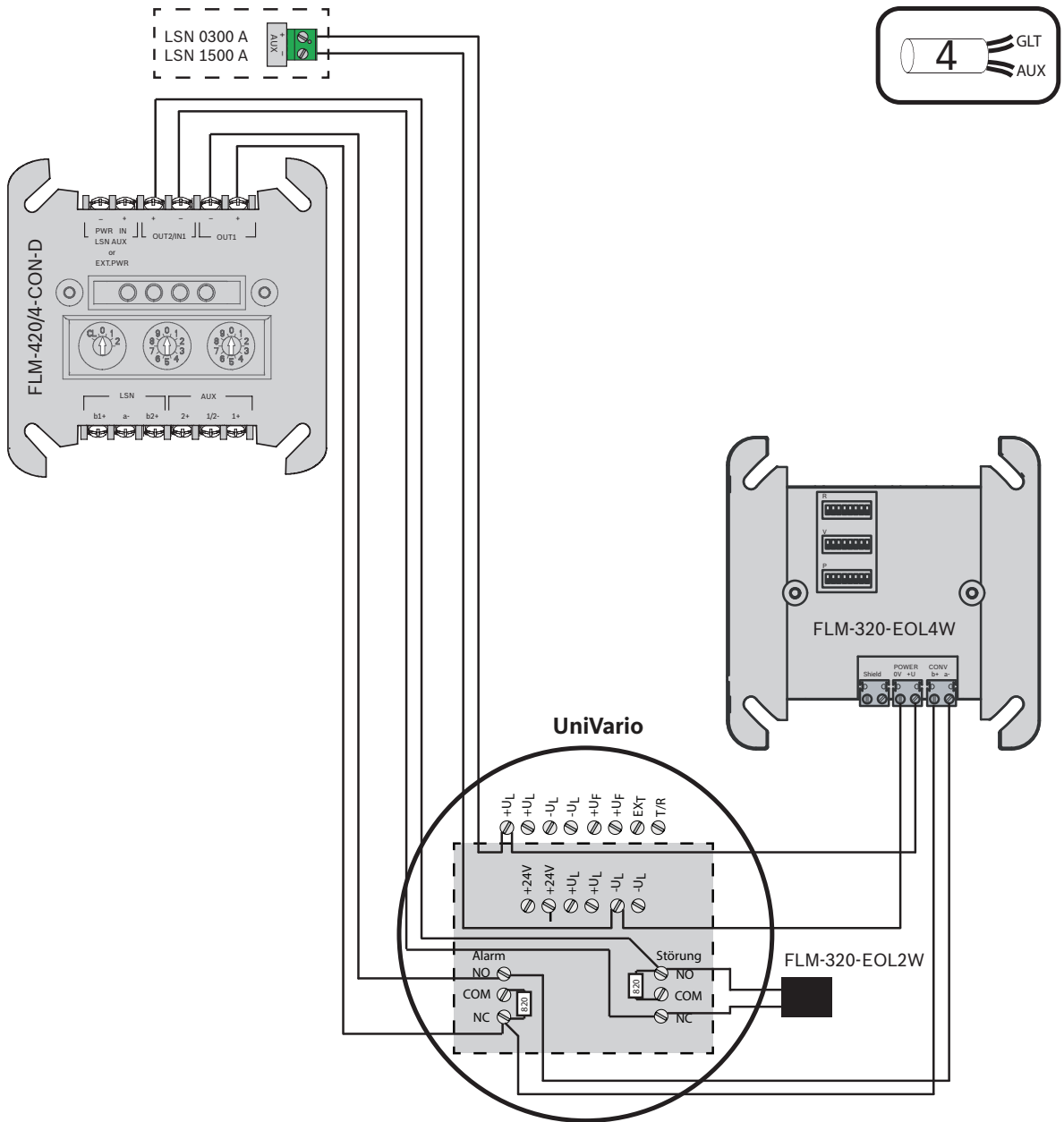




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