



BOSCH

Central de incendios modular

FPA-5000



es

Guía de cableado

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1 History

1.1 12.0 -> 12.1

Changes

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

Deleted

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

Outphased

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

New

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

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

1.2

12.1 -> 12.2

Changes

Contact -> FLM-420-4-CON-DS
 ADW_511 -> FLM-420-4-CON-D

DCA1192_SB3/DM_1103B-X/DO1101A-EX/DF1101A-EX/Typ_K -> FLM-420-4-CON-DS
 FCS-320-TM-Series -> CZM_0004_A EN54-13
 FCS-320-TM-Series -> FLM-420-4-CON-D EN54-13
 FCS-320-TP1-Series -> CZM_0004_A EN54-13
 FCS-320-TP1-Series -> FLM-420-4-CON-D EN54-13
 FCS-LWM-1 -> CZM_0004_A EN54-13
 FCS-LWM-1 -> FLM-420-4-CON_D EN54-13
 Fireray_50RV/100RV -> CZM_0004_A EN54-13
 Fireray_50RV/100RV -> FLM-420-4-CON_D EN54-13
 Fireray_2000 -> CZM_0004_A EN54-13
 Fireray_2000 -> FLM-420-4-CON-D EN54-13
 FRay5000 -> CZM_0004_A EN54-13
 FRay5000 -> FLM-420-4-CON-D EN54-13
 TSZ_0400 -> FLM-420-4-CON-DS
 TSZ_0400 -> FLM-420-I2-E-W
 TSZ_0400 -> FLM-420-O1I1-E
 TSZ_0400 -> LSN_0300_A
 TSZ_0400 -> MS400
 FNM-420-A_-B -> LSN_030_A_EN54-13
 FNM-420-A_-B -> LSN_030_A_EN54-13
 FNM-420-A_-B -> LSN_030_A
 FNM-420-A-BS (without detector) -> LSN_030_A EN_54-13
 FNM-420-A-BS (without detector) -> LSN_030_A EN_54-13
 FNM-420-A-BS (without detector) -> LSN_030_A
 FNM-420-A-BS -> LSN_030_A EN54-13
 FNM-420-A-BS -> LSN_030_A EN54-13
 FPC-500 -> FLM-420-I8R1-S EN54-13
 FNM-420-A-BS -> LSN_030_A
 LA -> FLM-420-RLE
 LWL_Networking_EKS_d-light_MPC-xxxx-B_(FMR-5000)
 LWL_Networking_EKS_d-light_MPC-xxxx-B_(FMR-5000)
 MSS_300-WH-EC -> CZM_0004_A/FLM-420-NAC-D EN54-13
 MSS_300-WH-EC -> CZM_0004_A/NZM_0002_A EN54-13

Deleted

FLM-420-4-CON-D -> LSN_0300_A EN54-13
 FLM-420-4-CON-D -> LSN_0300_A EN54-13

Outphased

AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B
 AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B_RML_0008_A
 AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B_RML_0008_A
 AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B_RML_0008_A
 AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B_RML_0008_A
 AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B_RML_0008_A
 AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B
 AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B
 AT_2000+ISDN+ATE_ISDN -> ENO_0000_A/B
 AT_2000+ISDN+ATE_ISDN -> MPC-xxxx-B
 LA -> FLM-420-RLE

New

FPC-500 -> FLM-420-I8R1-S_EN54-13
 FPC-500 -> FLM-420-O1I1_EN54-13
 AT_3000 -> ENO_0000_B
 UniVario, WMX-5000, KMx-5000 -> FLM-420-4-CON_EN54-13
 N4387A -> CZM 0004 A
 N4387A -> CZM 0004 A EN54-13
 N4387A -> FLM-420-4-CON
 N4387A -> FLM-420-4-CON EN54-13
 0165X9 -> CZM 0004 A
 0165X9 -> CZM 0004 A EN54-13
 0165X9 -> FLM-420-4-CON
 0165X9 -> FLM-420-4-CON EN54-13

1.3**12.2 -> 12.3****New**

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

Changed

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

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

Outphased

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

1.4

12.3 -> 12.4

New

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

Changed

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

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

Outphased

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

1.5

12.4 -> 12.5

New

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

Changed

AT3000 -> ENO 0000 A/B (product name AT3000)
 FLM-420-NAC-DS -> LSN 0300 A, FPP-5000 -> FLM-420-NAC-D,
 Plena -> FLM-420-RLV1-E, Plena -> FLM-420-RLV8-S, Plena -> IOS_0020_A (product name FPA)
 FAA-MSR-420 -> LSN 0300 A, FAA-420-RI -> FAA-MSR-420 (C point connection not allowed)
 FAT 2002 RE -> IOS 0020 A + MPC-xxxx-B, FAT 2002 RE -> IOP 0008 A + IOS 0020 A, FAT 2002
 RE -> FLM-420-I2-D + IOS 0020 A (power supply)
 FAT5 -> FPE-5000-UGM, FAT5 -> IOS 0020 A (fault relay, polarity)
 FAT-T-G/FAT-G-G -> FPE-5000-UGM, FAT-T-G/FAT-G-G -> IOS 0020 A (TTY-interface)
 FCA-500-EU -> CZM 0004 A 2x, FCA-500-EU -> FLM-420-4-CON 2x (labeling connections)
 FLM-420-4-CON-D -> LSN 0300 3x (delete unnecessary lines)
 FLM-420-NAC-DS -> LSN 0300 6x, FPP-5000 -> FLM-420-NAC (FLM-420-NAC labeling: a + b -)
 FMR-5000 -> BCM-0000-B (redundancy symbol added)
 Fireray 50RV/100RV -> FLM-420/4-CON-D 2x, Fireray 50RV/100RV -> CZM 2x (key switch ->
 reset)

User Notes updated, order of chapters

Deleted

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

Outphased

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

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

1.6

12.5 -> 12.6

Changed

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

Outphased

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

1.7

12.6 -> 12.7

Changed

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

Deleted

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

New

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

1.8

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

12.7 -> 12.8**New**

AT5000 -> ENO 0000 B

Changed

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

Naming:

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

ELS descriptions in 2.4.2 (DE, EN)

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

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

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

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

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

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

FLM-420-O1I1 -> LSN 0300

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

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

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

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

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

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

Reset action

5 x FAT4000 (shield)

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

Deleted

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

Section Networking (see Networking guide)

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

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

37 x 2-wire cabling -> CZM 0004 A

2 Notas

2.1 Contenido

Esta guía de cableado muestra cómo realizar las conexiones de los dispositivos periféricos a la central de incendios.

Puede encontrar información de los dispositivos periféricos que han dejado de incluirse en la gama de productos en "Part 2 - Discontinued Products" de la guía de cableado.

**Aviso!**

Las conexiones descritas en este documento también son aplicables a la central de incendios FPA-1200, siempre que los componentes individuales sean extensiones aprobadas por Bosch Sicherheitssysteme GmbH de la central de incendios FPA-1200.

**Aviso!**

Las conexiones de LSN 0300 A que se describen en este documento también son aplicables al módulo LSN 1500 A.

2.2 Información del producto

- Las instrucciones de instalación de los componentes específicos de la central de incendios están disponibles en el manual de instalación.

2.3 Notas importantes

- Utilice únicamente el material de instalación proporcionado por Bosch Security Systems.
- No realice conexiones ni soldaduras de componentes sin protegerse con un brazaleté antiestático de conexión a tierra.
- El montaje y la instalación sólo se deben llevar a cabo por personal cualificado.
- Tenga en cuenta las normas de conexión de las autoridades o instituciones de su país.

**Peligro!**

El contacto directo con componentes cargados podría llegar a causar la muerte. Desconecte la fuente de alimentación antes de llevar a cabo la instalación.

**Aviso!**

Si se va a conectar un cable de apantallamiento para el cable LSN, siga las especificaciones de LSN.

- Conecte el apantallamiento del cable LSN del lado de la central al conector de tierra designado. El apantallamiento de ambos lados (inicio y fin) del lazo se debe conectar a la central
- Haga un lazo con el apantallamiento del cable en todos los dispositivos periféricos LSN utilizando los terminales suministrados para ello
- No está permitida ninguna conexión adicional del apantallamiento del cable LSN, ni a los conectores a tierra de ninguna ubicación ni a ningún otro potencial eléctrico.

2.4 Notas del usuario

La guía de cableado está estructurada del modo siguiente:

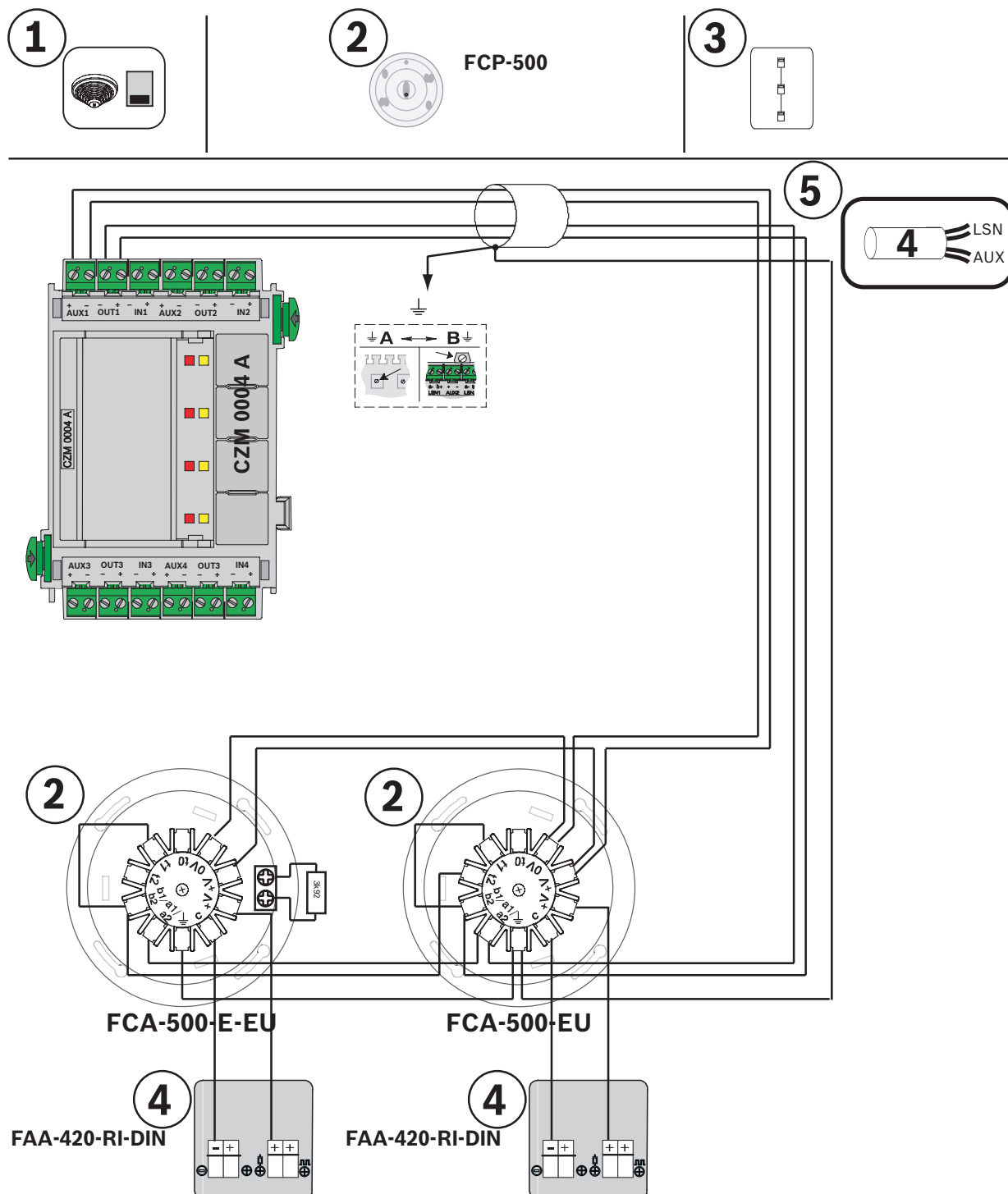
- El capítulo *Cableado, Página 18* está organizado según el dispositivo al que se conecta el dispositivo periférico. Un cableado muestra la conexión directa de un dispositivo a otro (sin conexiones en cascada). Por lo general, no se muestra el apantallamiento del cableado. El ejemplo de cableado siguiente muestra el apantallamiento.

- Puede consultar una recopilación de todos los cableados complementados con módulos EOL adicionales para una monitorización de rotura de línea progresiva en la sección EOL.

Para encontrar el cableado necesario también puede utilizar:

- el índice al principio del capítulo *Cableado*, *Página 18* y al principio de las secciones *Módulos funcionales*, *Página 48*, *Módulos de interfaz*, *Página 136* y EOL.
- el Index (independiente del idioma),
- y la búsqueda de texto completo.

Véase el siguiente cableado de ejemplo:



1	Símbolos del capítulo (<i>Símbolos del capítulo, Página 14</i>)
2	Dispositivo periférico conectable
3	Símbolos de conexión (<i>Símbolos de conexión, Página 14</i>)
4	Componentes opcionales
5	Fuente de alimentación y cableado (<i>Fuente de alimentación y cableado, Página 16</i>)

Consulte

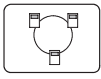
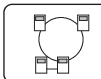
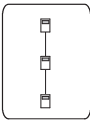
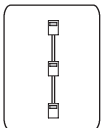
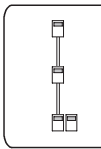
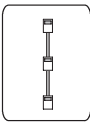
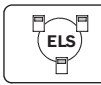
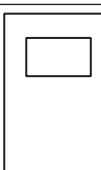
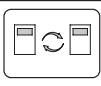
– EOL, Página 180

2.4.1 Símbolos del capítulo

	Detectores automáticos		Paneles de mando y visualización		Impresora
	Fuente de alimentación		Módulos de central		Equipamiento de detección de incendios
	Módulos de lazo		Sistemas de extinción		Pulsadores de alarma
	Dispositivos de señalización		Controles de puertas		Unidades de transmisión
	En red				

2.4.2 Símbolos de conexión

 	Conexión monitorizada/no monitorizada de periféricos convencionales o de líneas de circuito de dispositivos de notificación convencionales monitorizadas/no monitorizadas. (Resistencia de fin de línea en conexión CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A o conexiones de contacto seco con módulo de interfaz).	 	En esta conexión de periférico convencional se puede conectar una línea de retroalimentación. / El símbolo tachado significa que no se necesita ninguna línea de retroalimentación, o no se recomienda utilizarla. (Conexiones FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A) También se puede utilizar una línea de entrada como línea de retroalimentación (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1...).		Redundancia
---	---	---	---	---	-------------

	Cableado del lazo		Cableado del lazo con elemento redundante		Cableado del ramal
	Cableado del ramal redundante		Cableado del ramal con elemento redundante		Cableado del ramal redundante con elemento redundante
ELS	Este cableado cumple con VdS 2543. ELS corresponde a Extended Line Supervision (Supervisión ampliada de línea, que significa la monitorización de cortocircuito por fluencia y circuito abierto por fluencia). Este cableado ofrece ELS. Encontrará todos los cableados mejorados con módulos EOL adicionales para la monitorización de rotura de línea progresiva en el capítulo EOL. Los módulos siguientes son capaces de detectar una rotura de línea progresiva: LSN 0300 A, LSN 1500 A y BCM-0000-B utilizando FPP-5000-TI13.		Este cableado en lazo cumple con VdS 2543. Ofrece ELS. No requiere módulos EOL adicionales.		Sincronización
	Zonas con peligro de explosión		Central		Central independiente
	Central independiente con redundancia		No permitido		Para las bases de detectores: el cableado solo es válido para la base de detector en la cual el detector está instalado.

-----	Cableado opcional	_____	Cableado obligatorio	EN 54-2, DIBT etc.	Si se requiere el cumplimiento de este estándar, utilice el cableado especificado.
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2.4.3 Fuente de alimentación y cableado

	Fuente de alimentación adicional
	Suministro de alimentación a través de la central La fuente de alimentación debe estar separada del elemento.
	Alimentación desde la central o mediante una fuente de alimentación externa El elemento está alimentado por una unidad BCM-000-B. El elemento debe estar montado al ras con la carcasa del producto que contenga la unidad BCM-000-B.
	El cableado es una conexión de 4 cables. De lo contrario es una conexión de 2 cables.
	El cableado es una conexión de 2 cables.
	Consulte el cableado en este manual.
	Consulte la documentación técnica del dispositivo periférico conectado.

2.5 Valores de resistencia

La siguiente tabla describe la codificación de colores de las resistencias. Las resistencias con película de metal que se suministran con el producto tienen líneas de 5 colores, que indican el valor de resistencia.

Color	1. línea	2. línea	3. línea	4. línea (multiplicador)	5. línea (tolerancia)
Plateada				10 ⁻²	±10%
Dorado				10 ⁻¹	±5%
Negro		0	0	10 ⁰	

Color	1. línea	2. línea	3. línea	4. línea (multiplicador)	5. línea (tolerancia)
Marrón	1	1	1	10^1	$\pm 1\%$
Rojo	2	2	2	10^2	$\pm 2\%$
Naranja	3	3	3	10^3	$\pm 0.05\%$
Amarillo	4	4	4	10^4	$\pm 0.02\%$
Verde	5	5	5	10^5	$\pm 0.5\%$
Azul	6	6	6	10^6	$\pm 0.25\%$
Violeta	7	7	7	10^7	$\pm 0.1\%$
Gris	8	8	8	10^8	$\pm 0.01\%$
Blanco	9	9	9	10^9	

Según la norma DIN EN 60062:2017

Naranja — blanco — negro — marrón — marrón: resistencia de 3,9 kOhm con tolerancia del 1 %,

Rojo — rojo — negro — marrón — marrón: resistencia de 2,2 kOhm con tolerancia del 1 %.

3 Cableado



FPP-5000 Power supply, Página 19

DIBT, Página 21

Módulos funcionales, Página 48

BCM-0000-B, Página 49

CZM 0004 A, Página 51

ENO 0000 A/B, Página 55

LSN 0300 A, Página 62

NZM 0002 A, Página 97

RMH 0002 A, Página 113

IOS 0020 A, Página 116

FPE-5000-UGM, Página 131

Módulos de interfaz, Página 136

FLM-420/4-CON-D/S, Página 137

FLM-420-NAC-D/S, Página 162

FLM-420-RLE-S, Página 175

FLM-420-RLV1-E, Página 176

FLM-420-RLV8-S, Página 177

EOL, Página 180

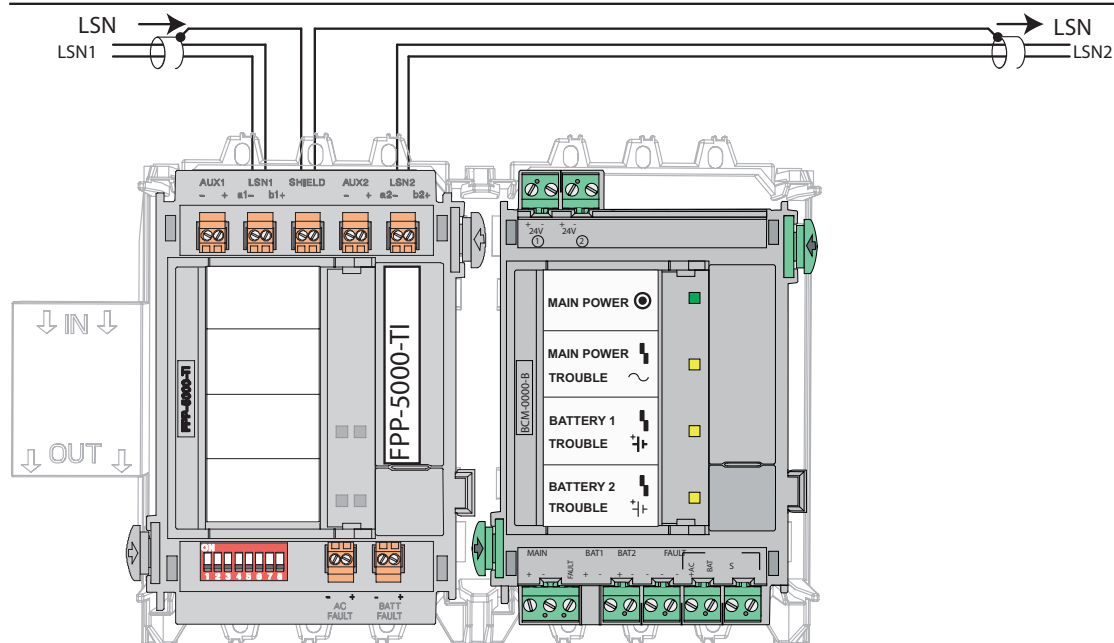
LSN 0300 A, Página 181

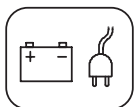
FLM-420/4-CON-S/D, Página 223

3.1 FPP-5000 Power supply



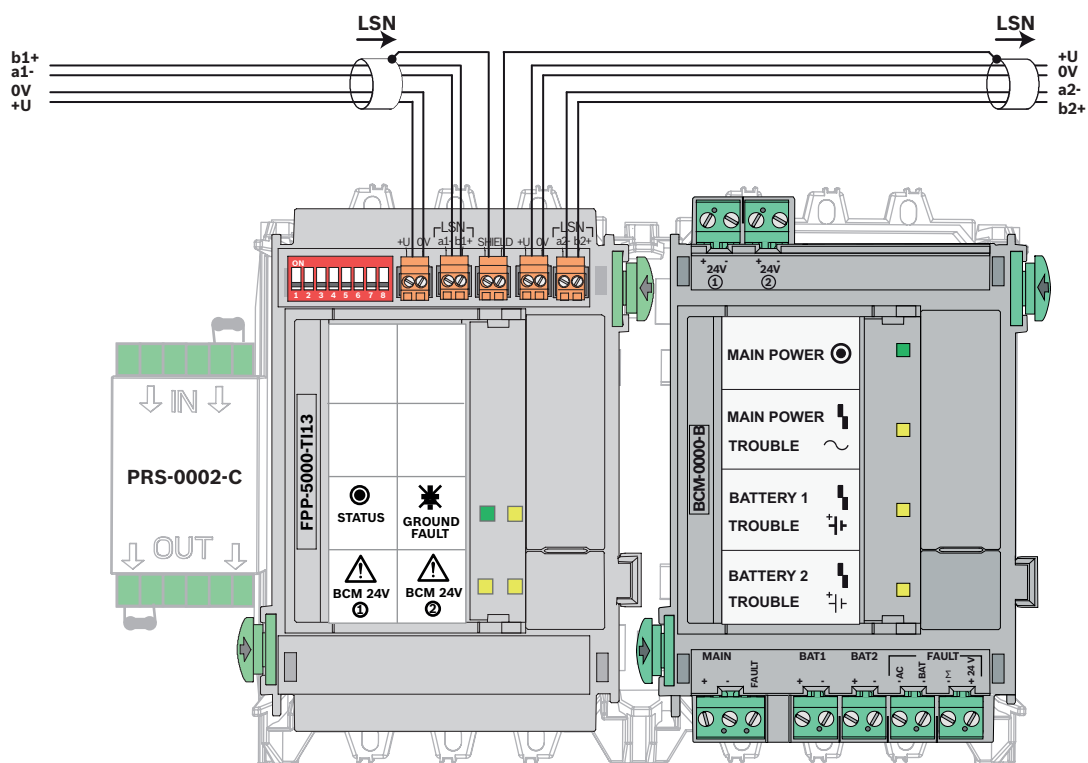
FPP-5000-TI





FPP-5000-TI13

ELS VdS 2489



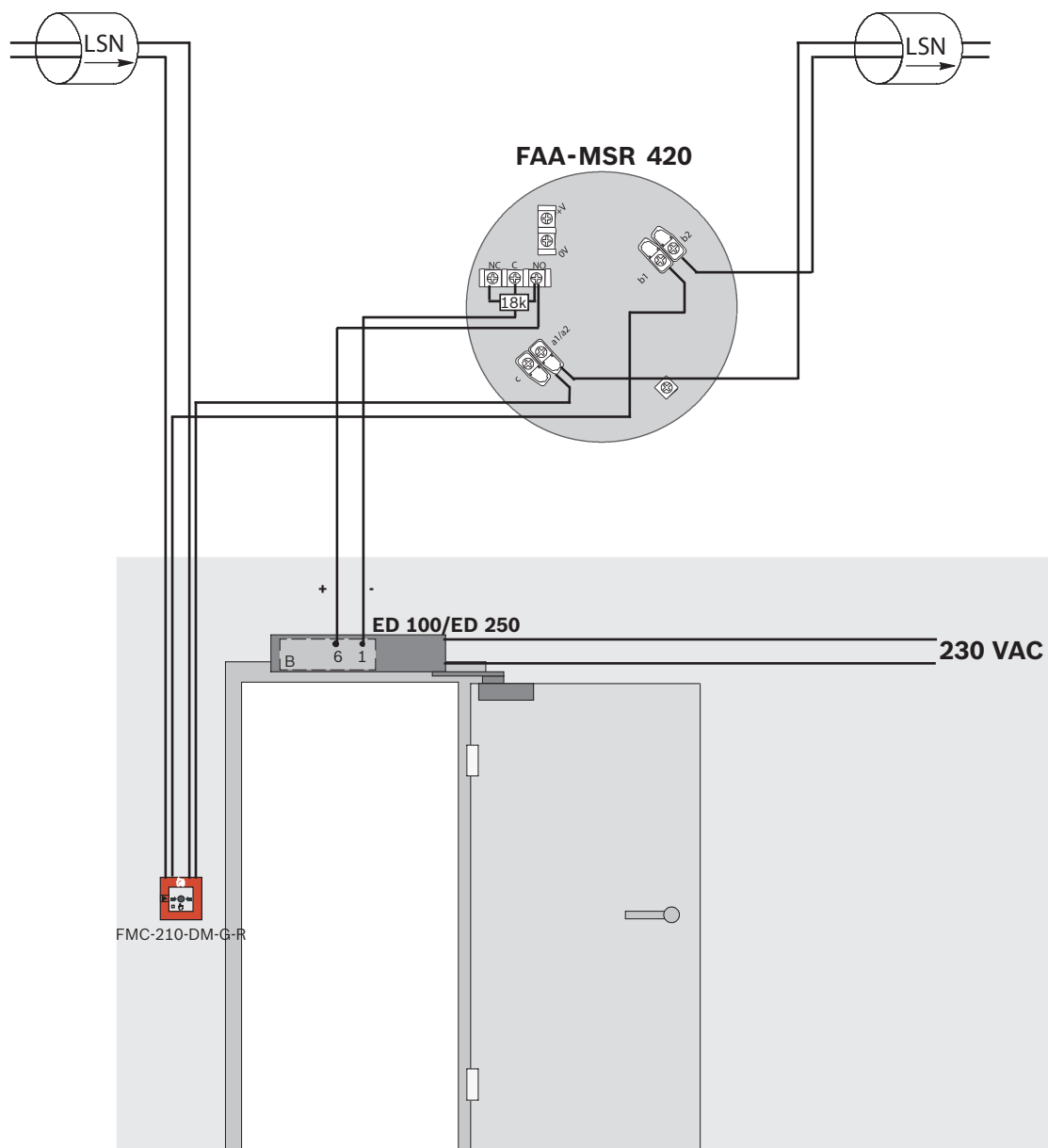
3.2

DIBT



ED 100
ED 250
(+Upgrade Card B)

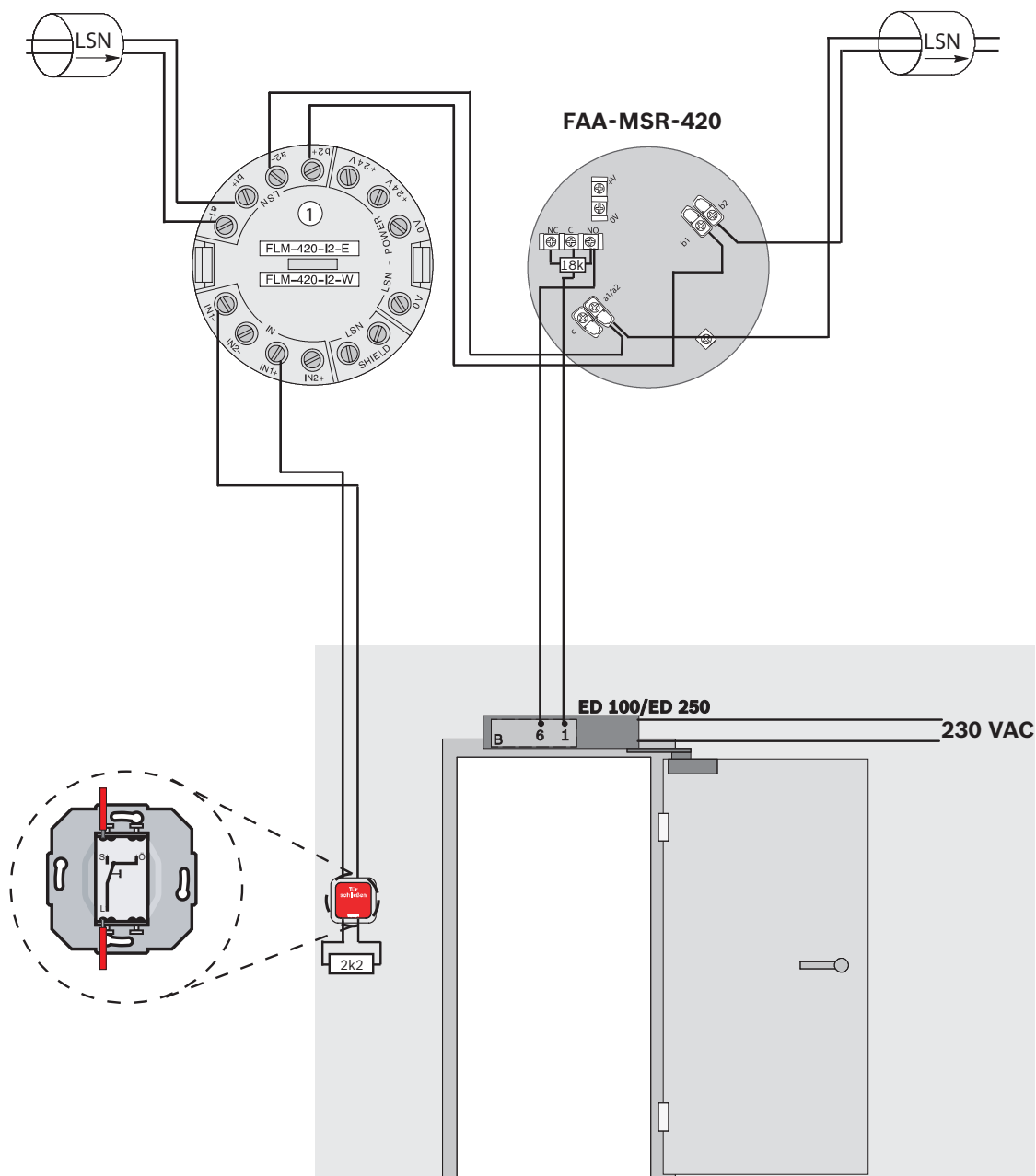
DIBT





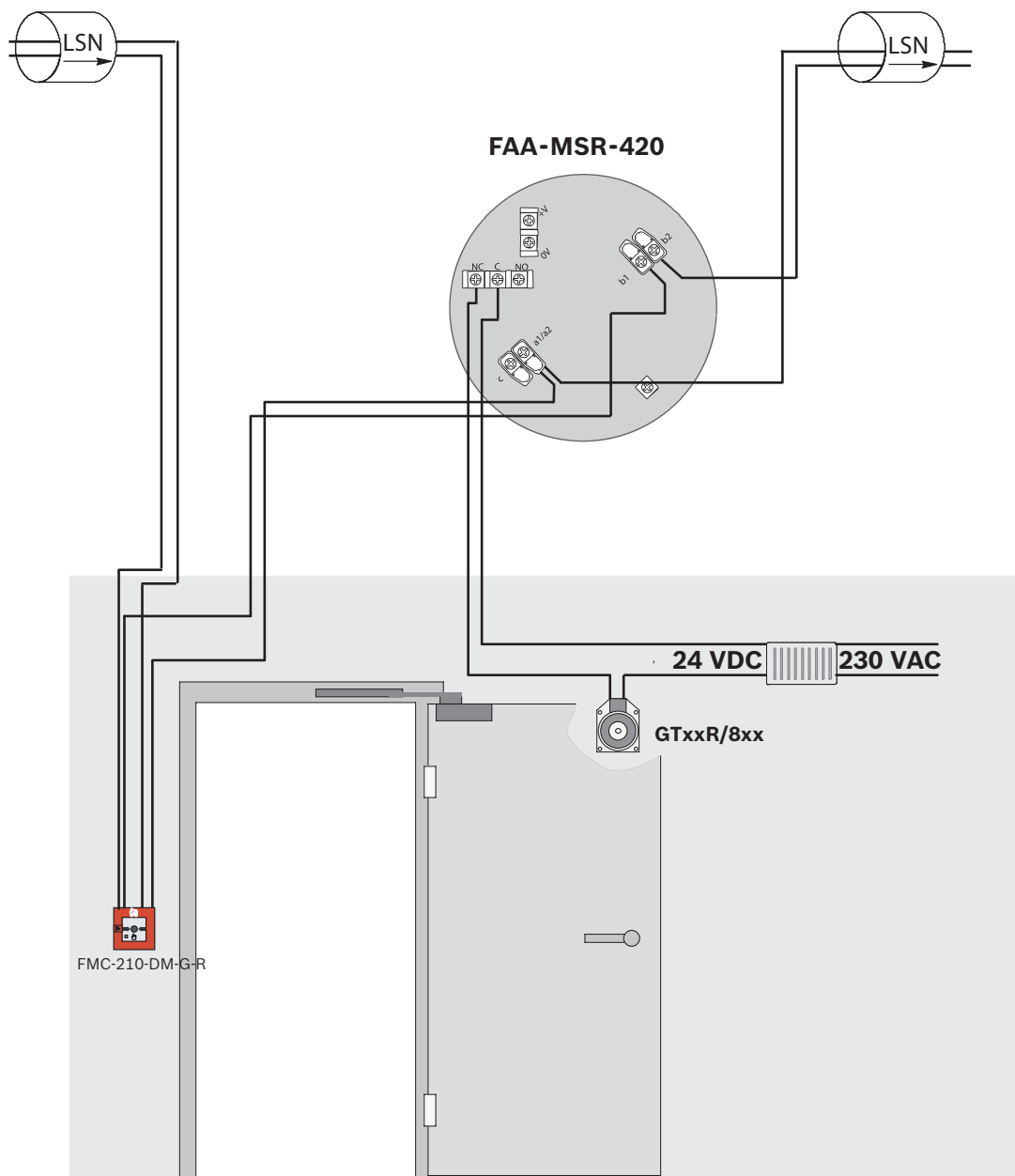
**ED 100
ED 250
(+Upgrade Card B)**

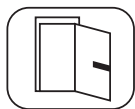
DIBT





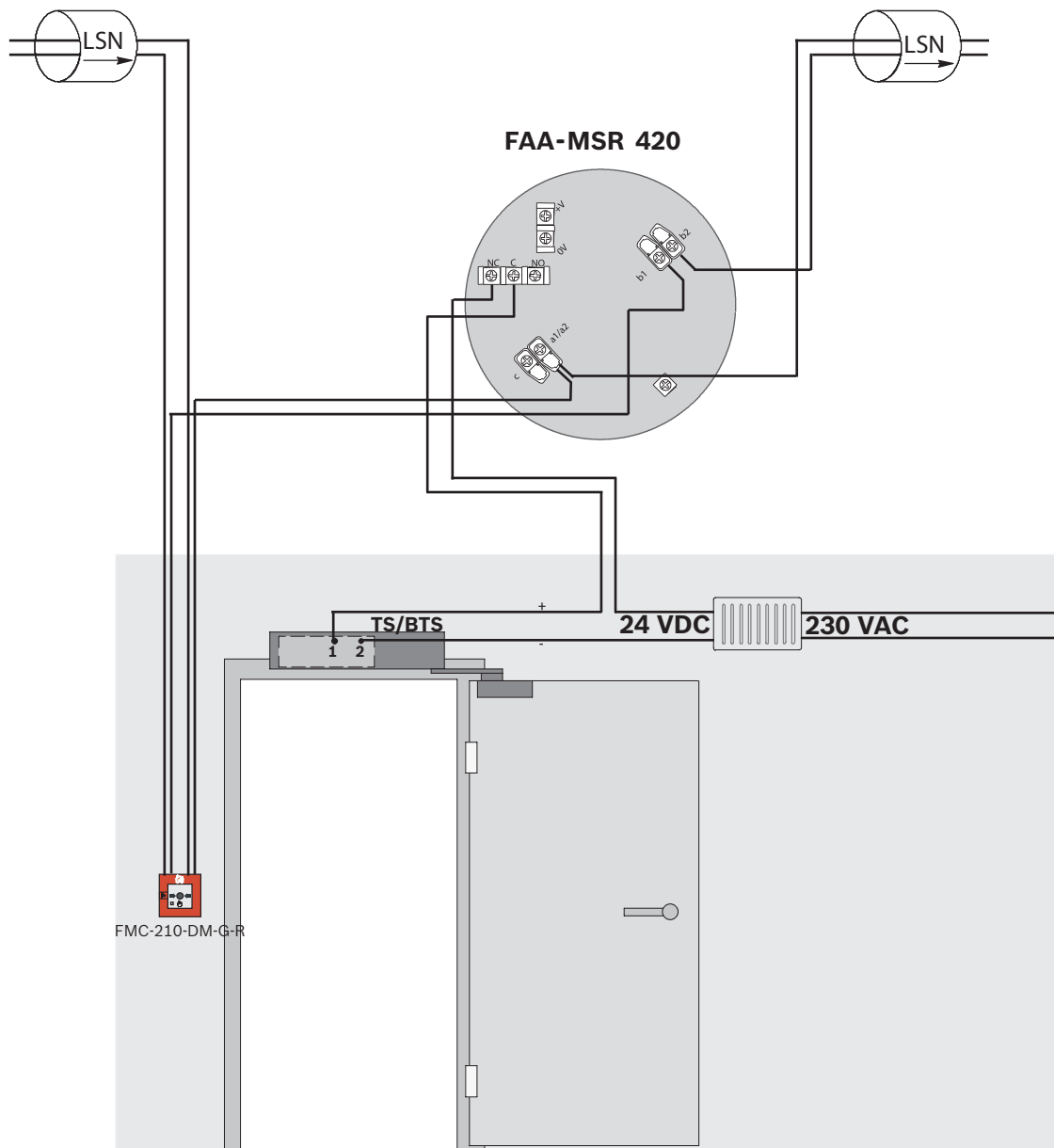
DIBT





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

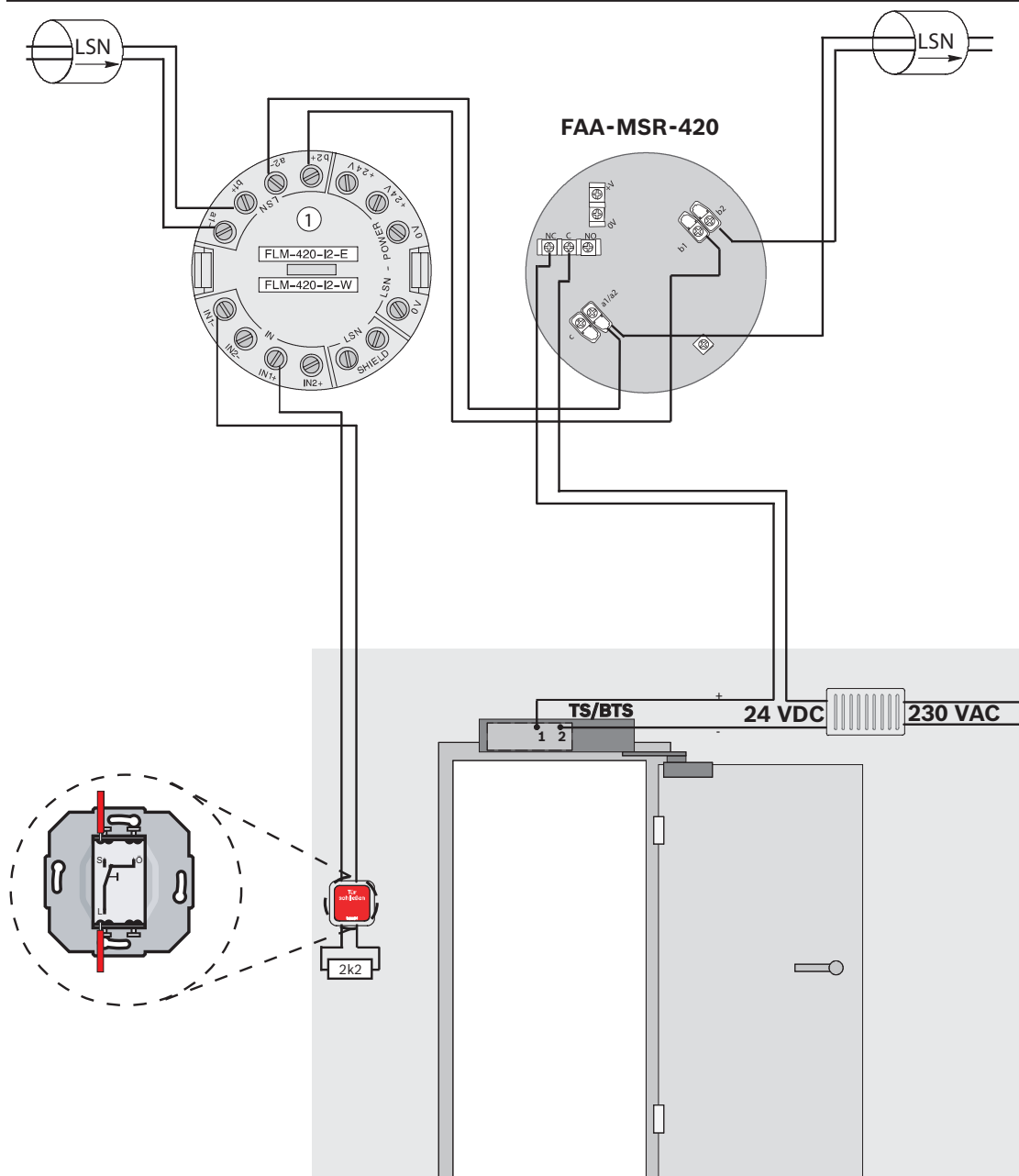
DIBT





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

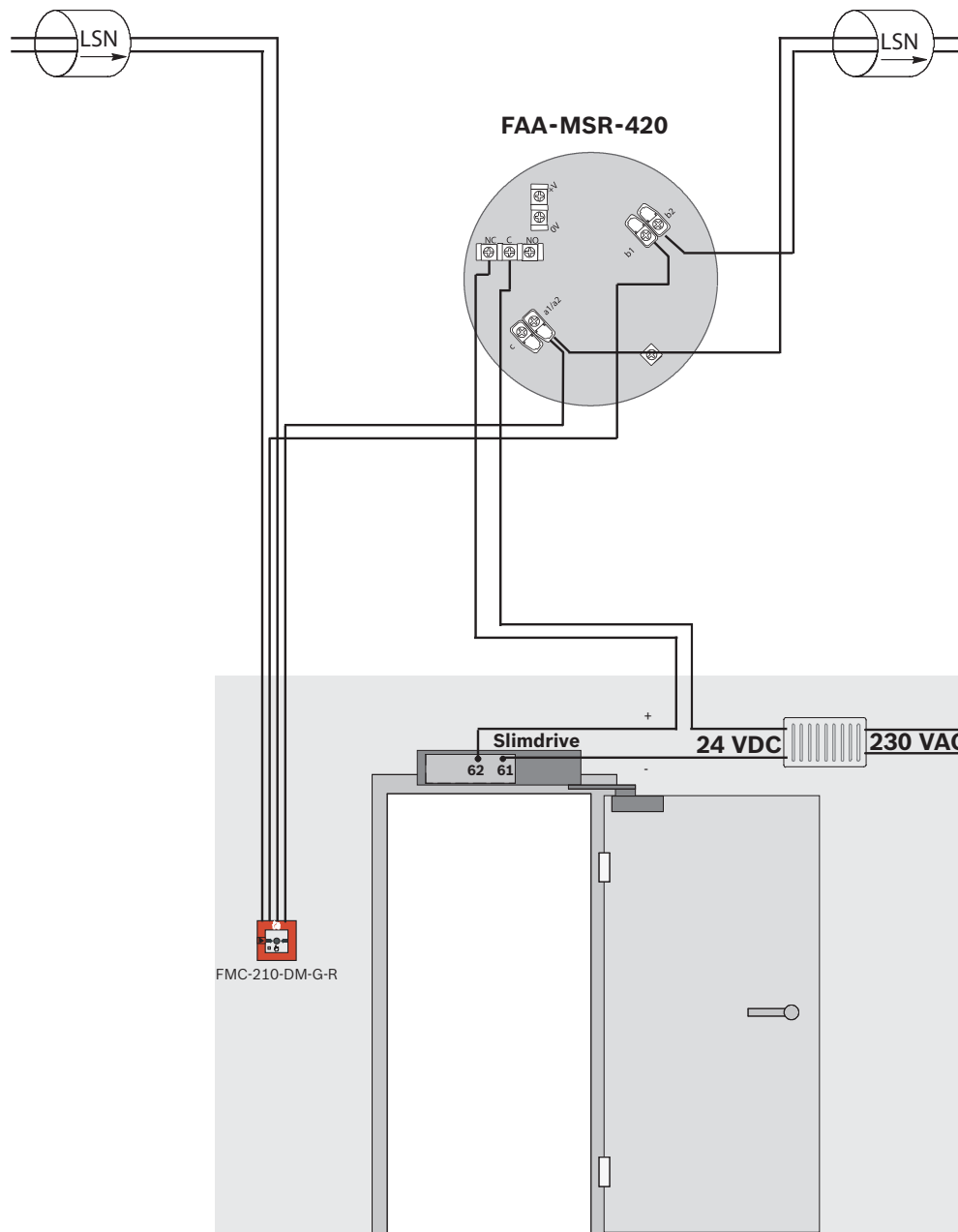
DIBT





Slimdrive EMD-F/EMD F-IS

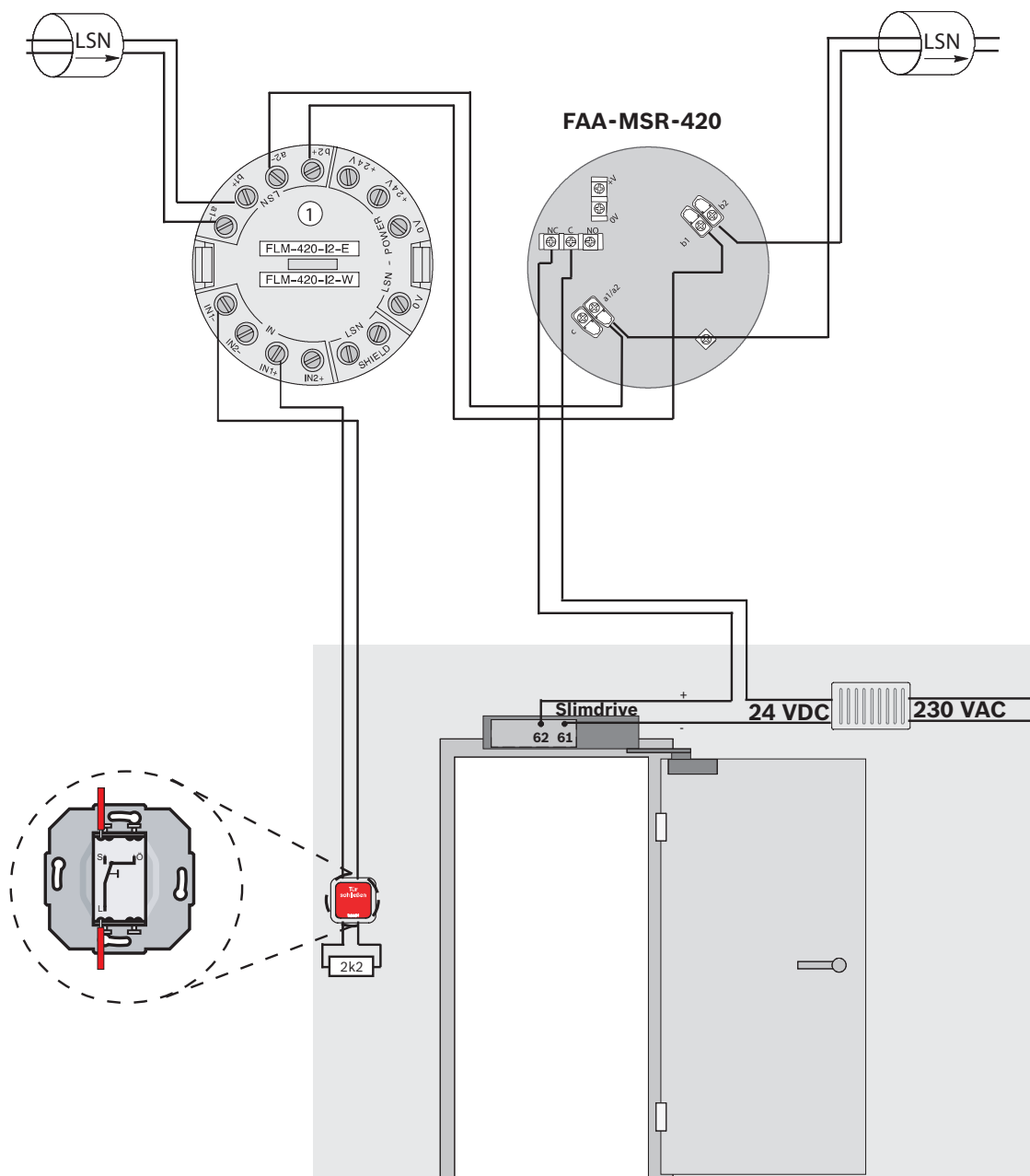
DIBT

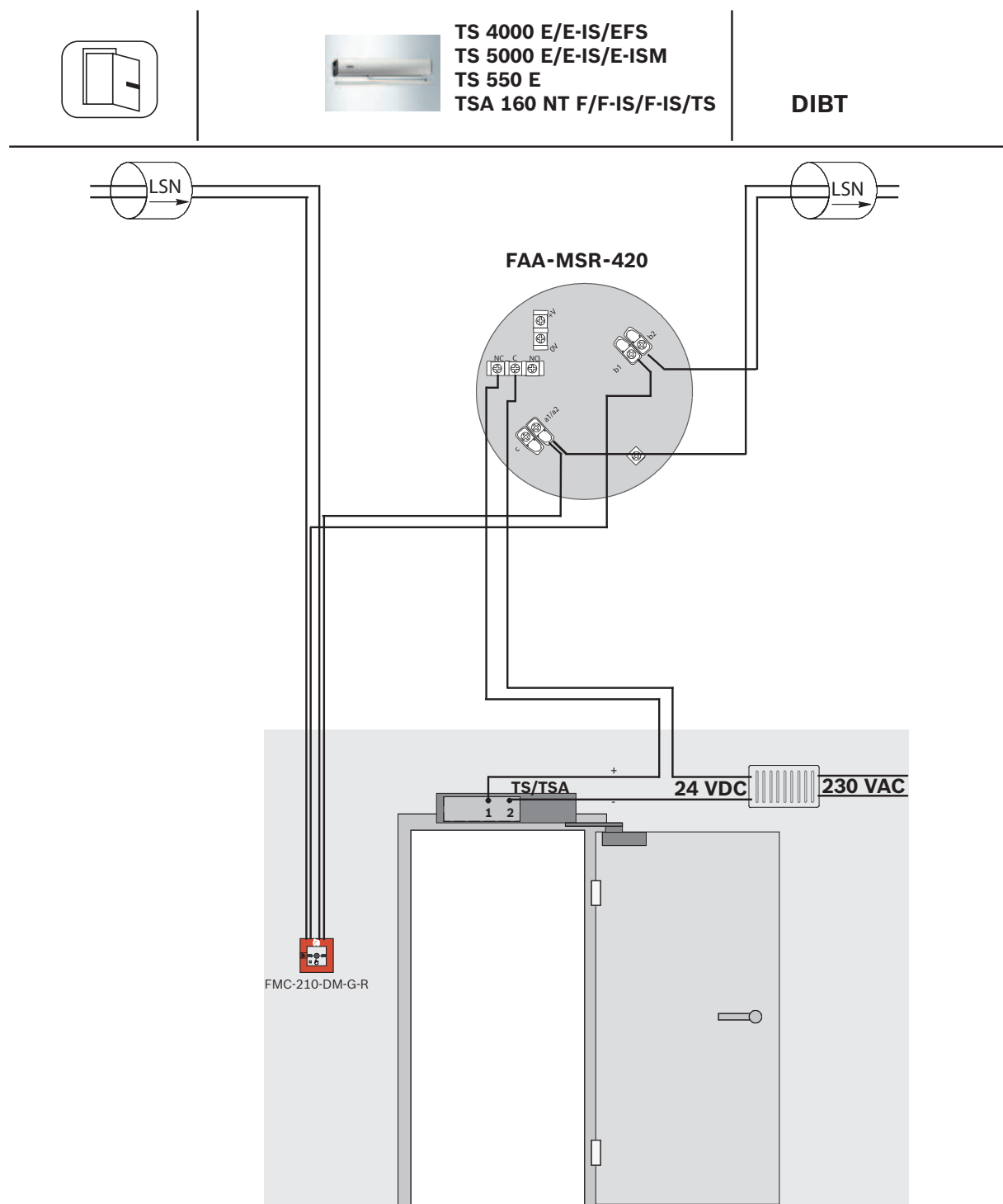




Slimdrive EMD-F/EMD F-IS

DIBT

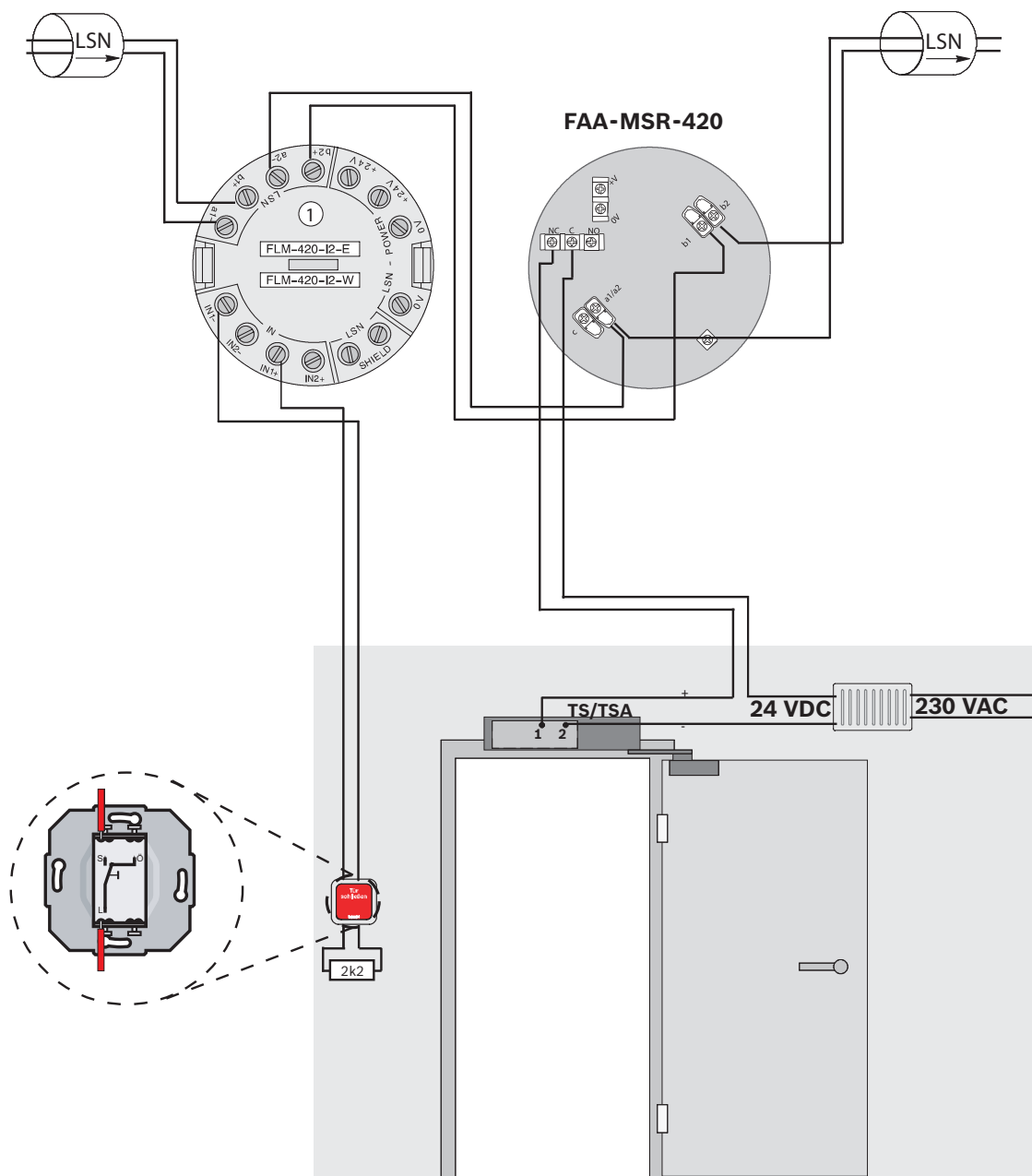


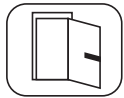




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

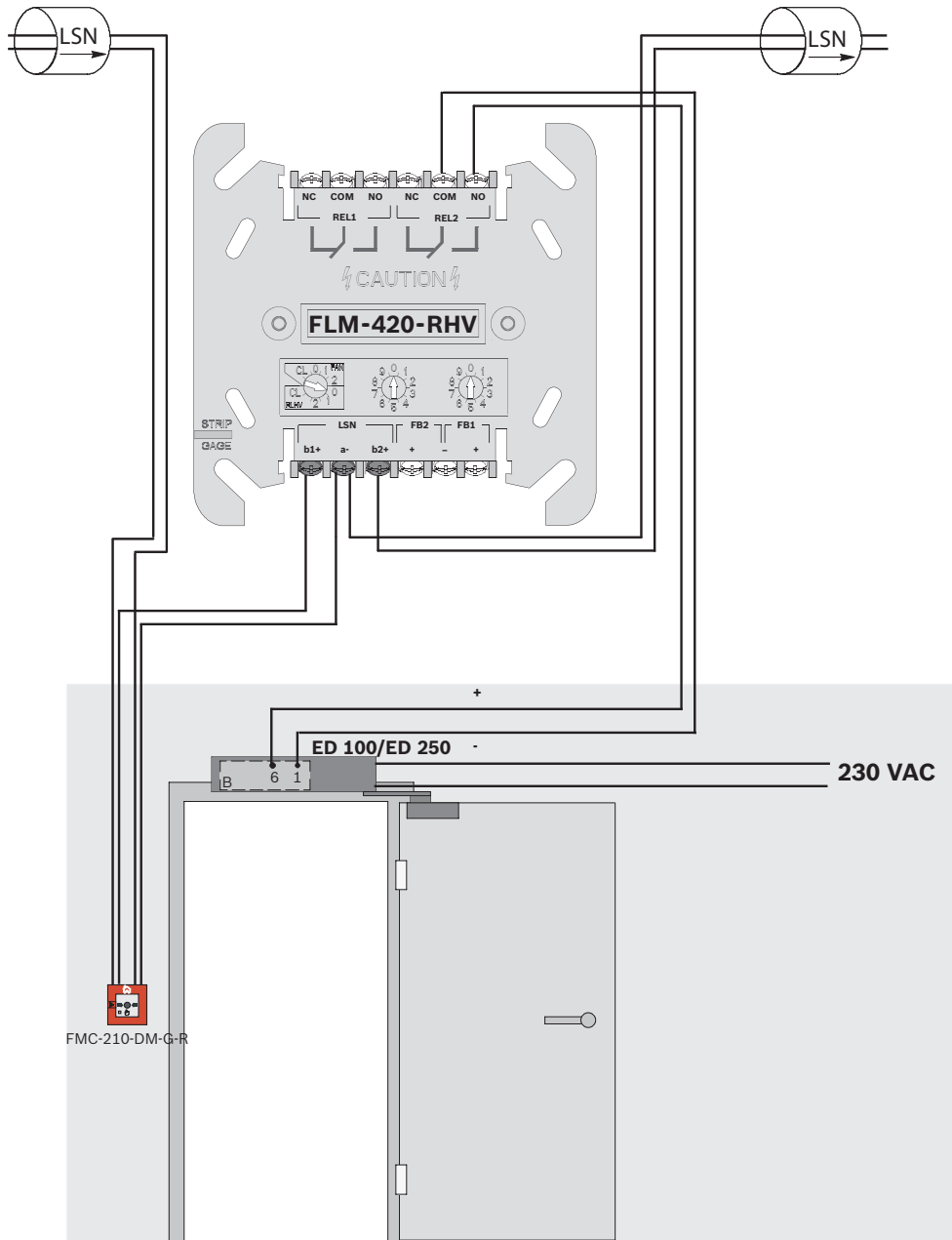
DIBT





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

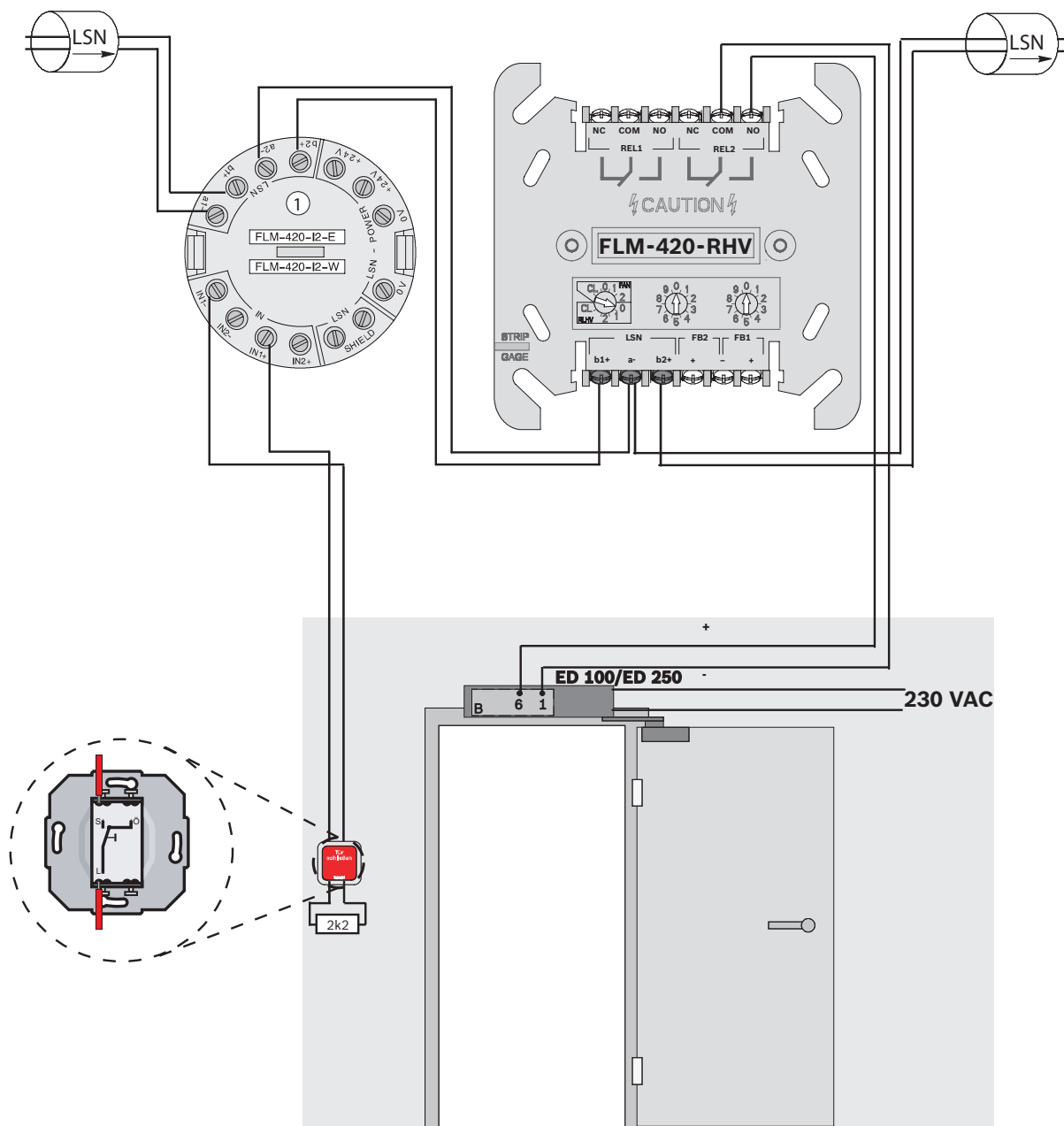
DIBT





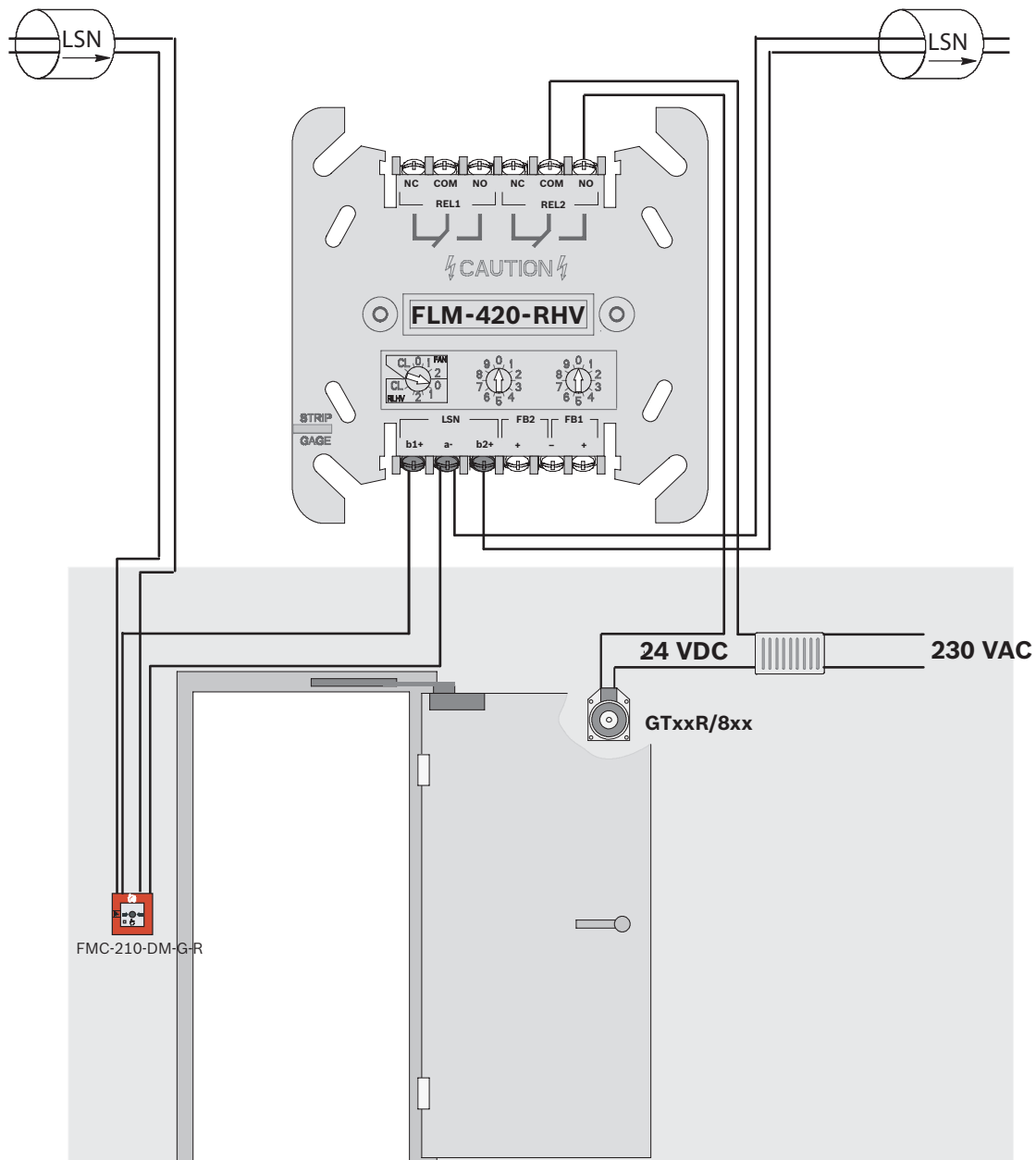
**ED 100
ED 250
(+Upgrade Card B)**

DIBT





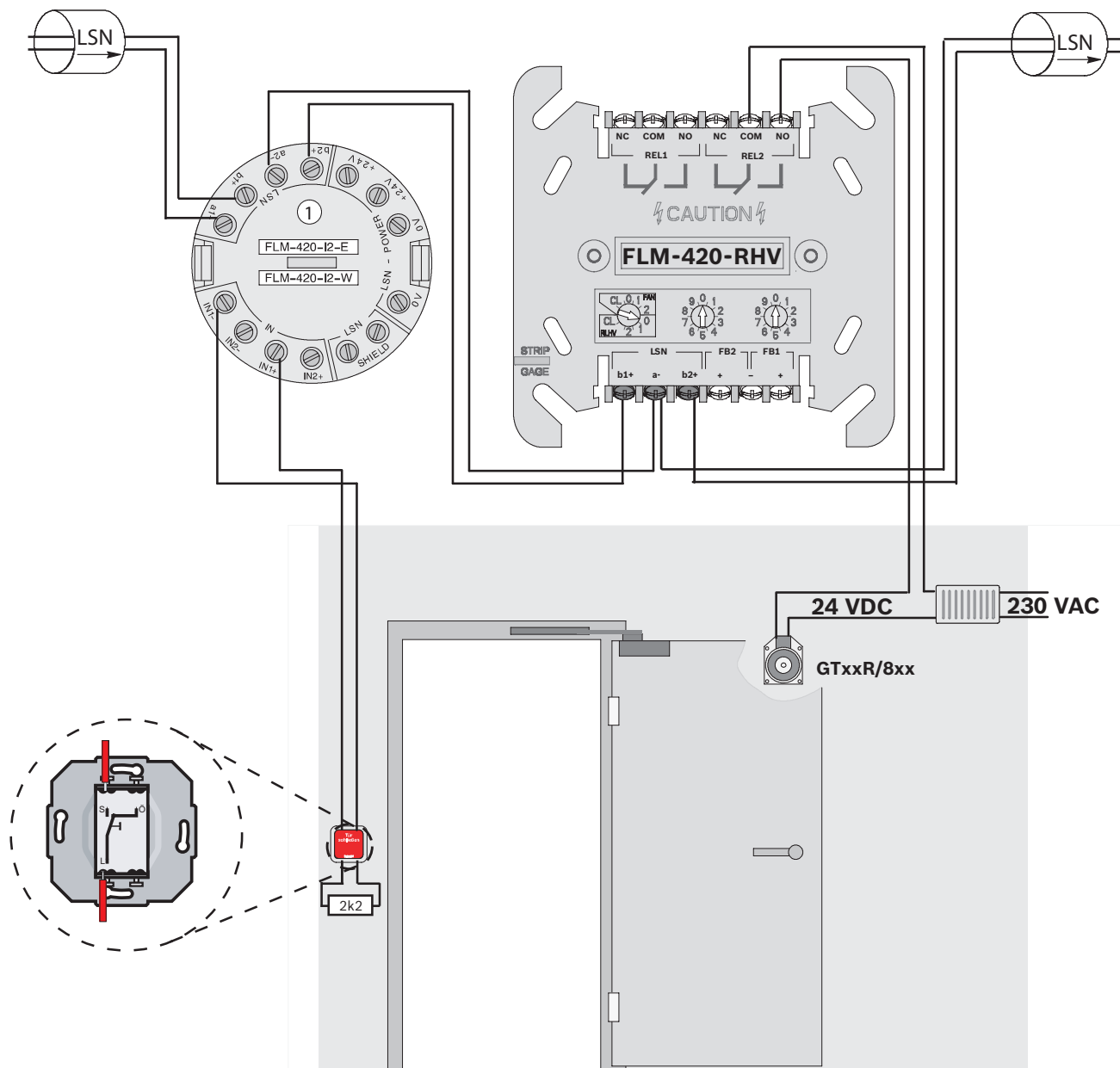
DIBT





GT xx R

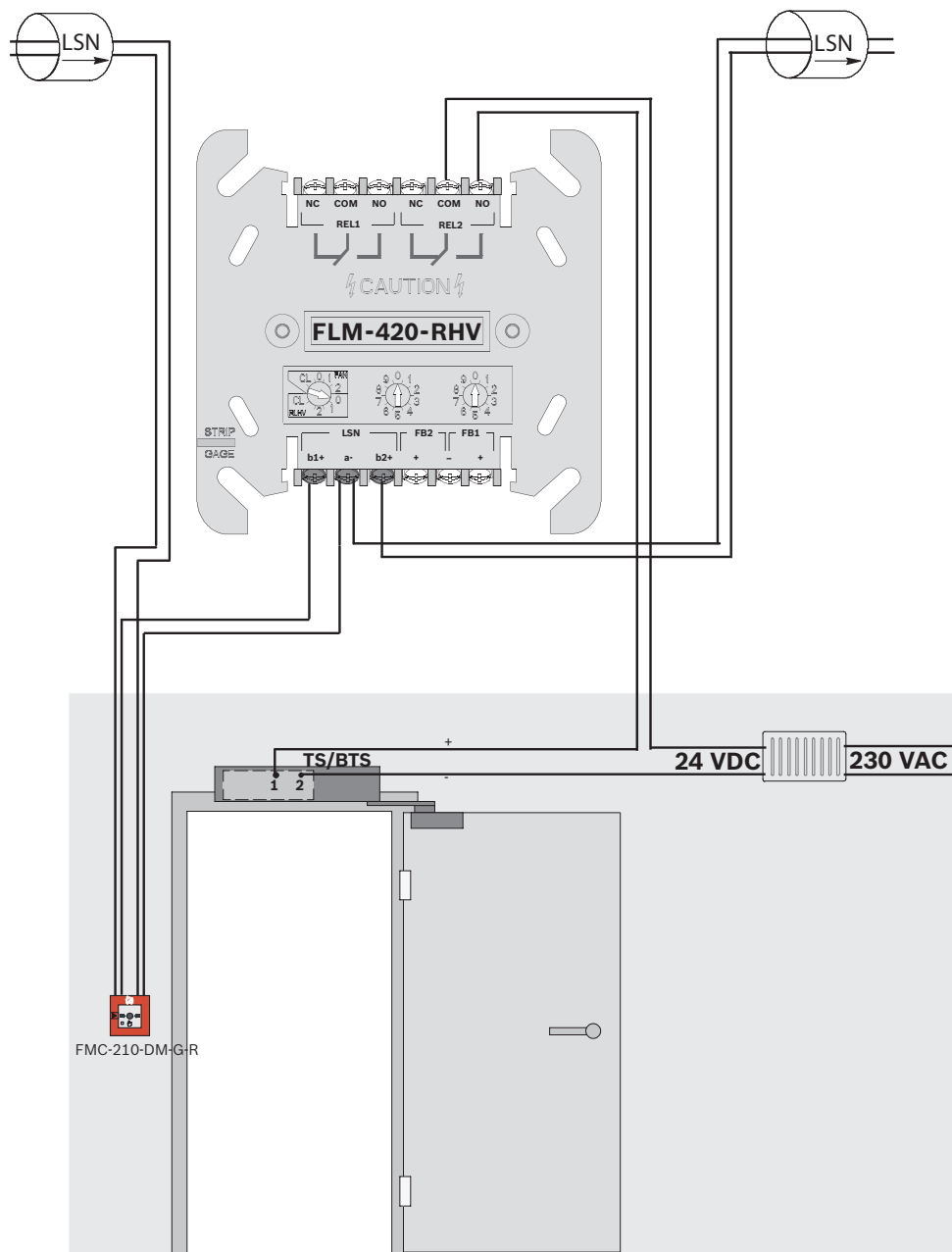
DIBT





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

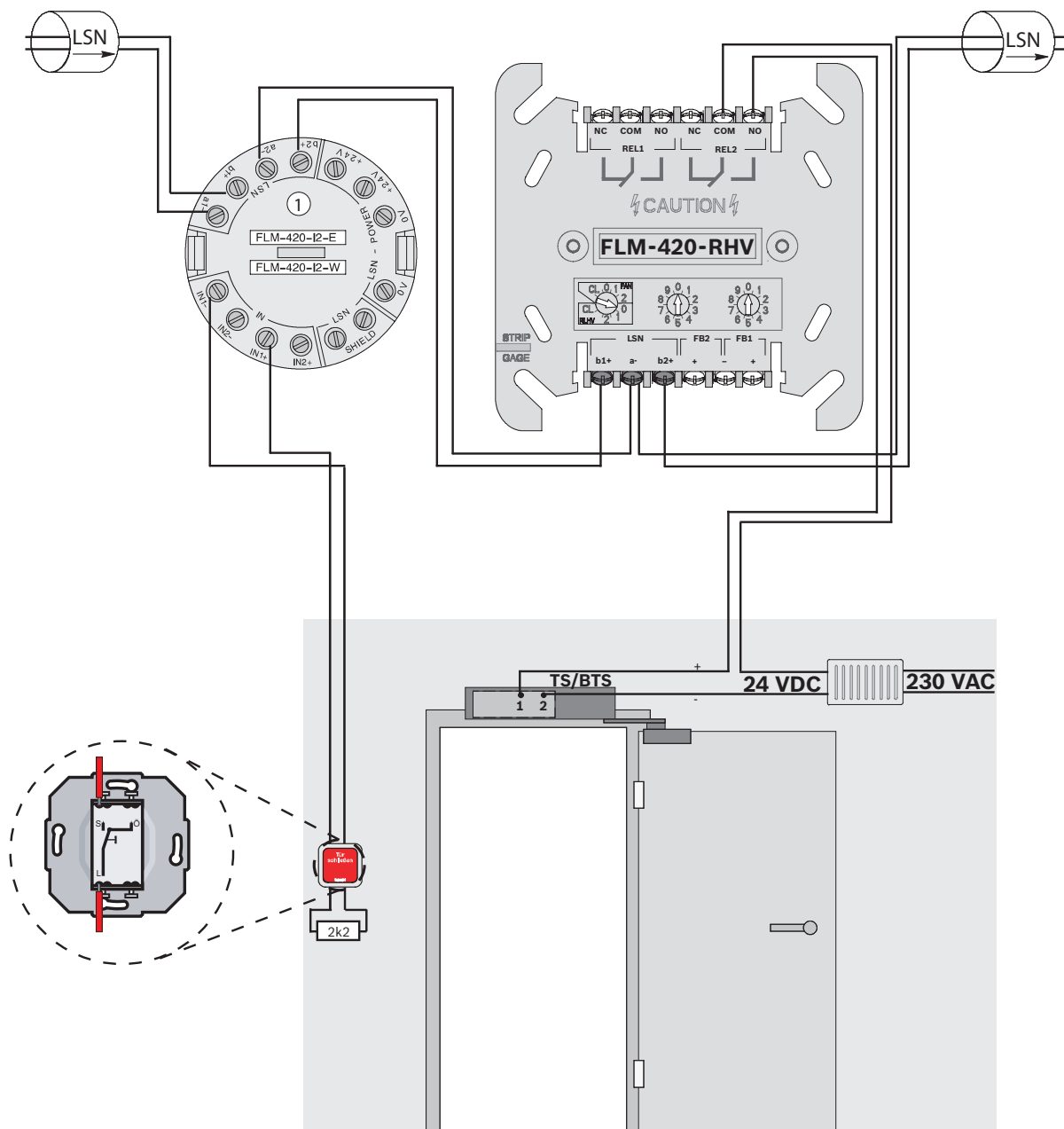
DIBT





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

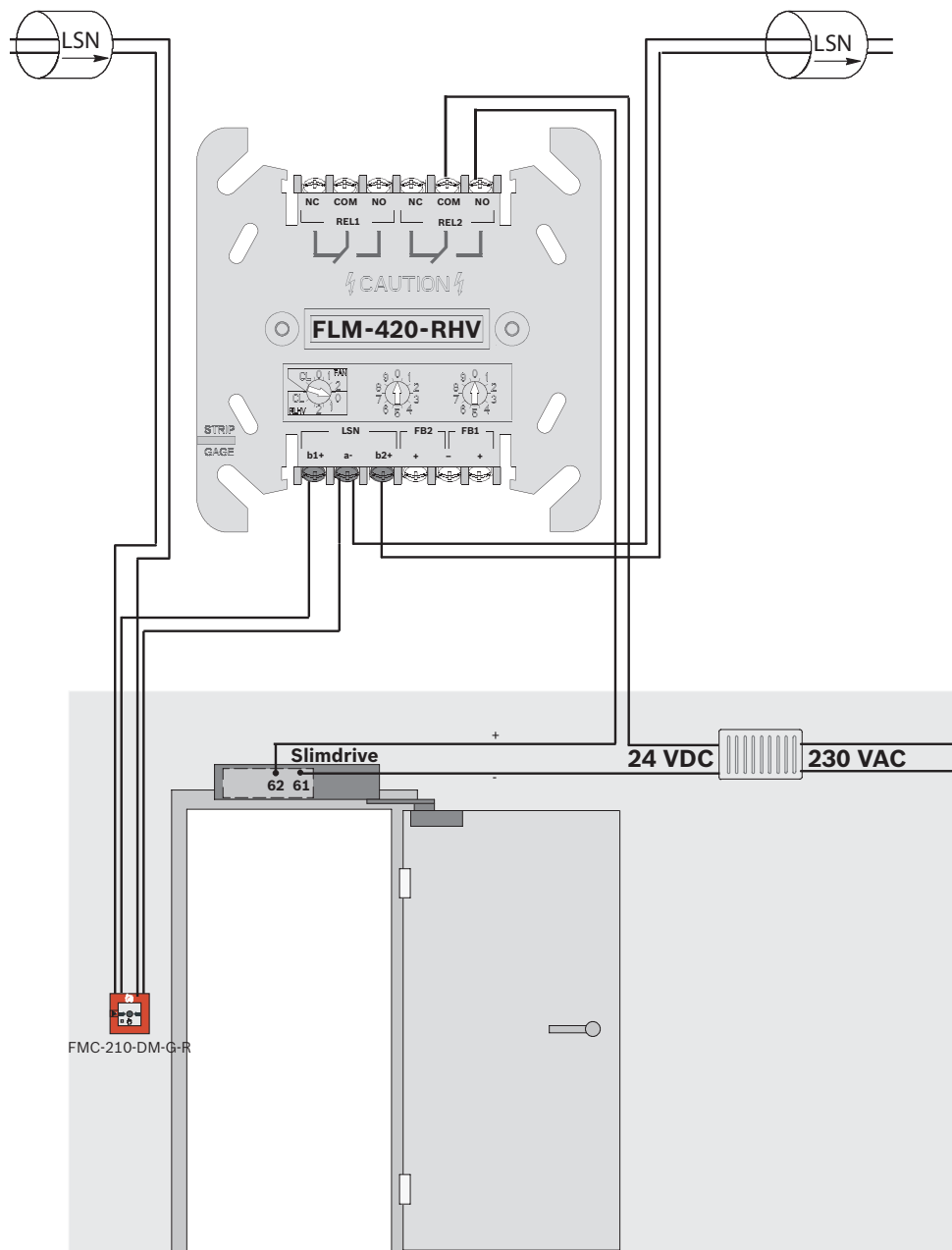
DIBT





Slimdrive EMD-F/EMD F-IS

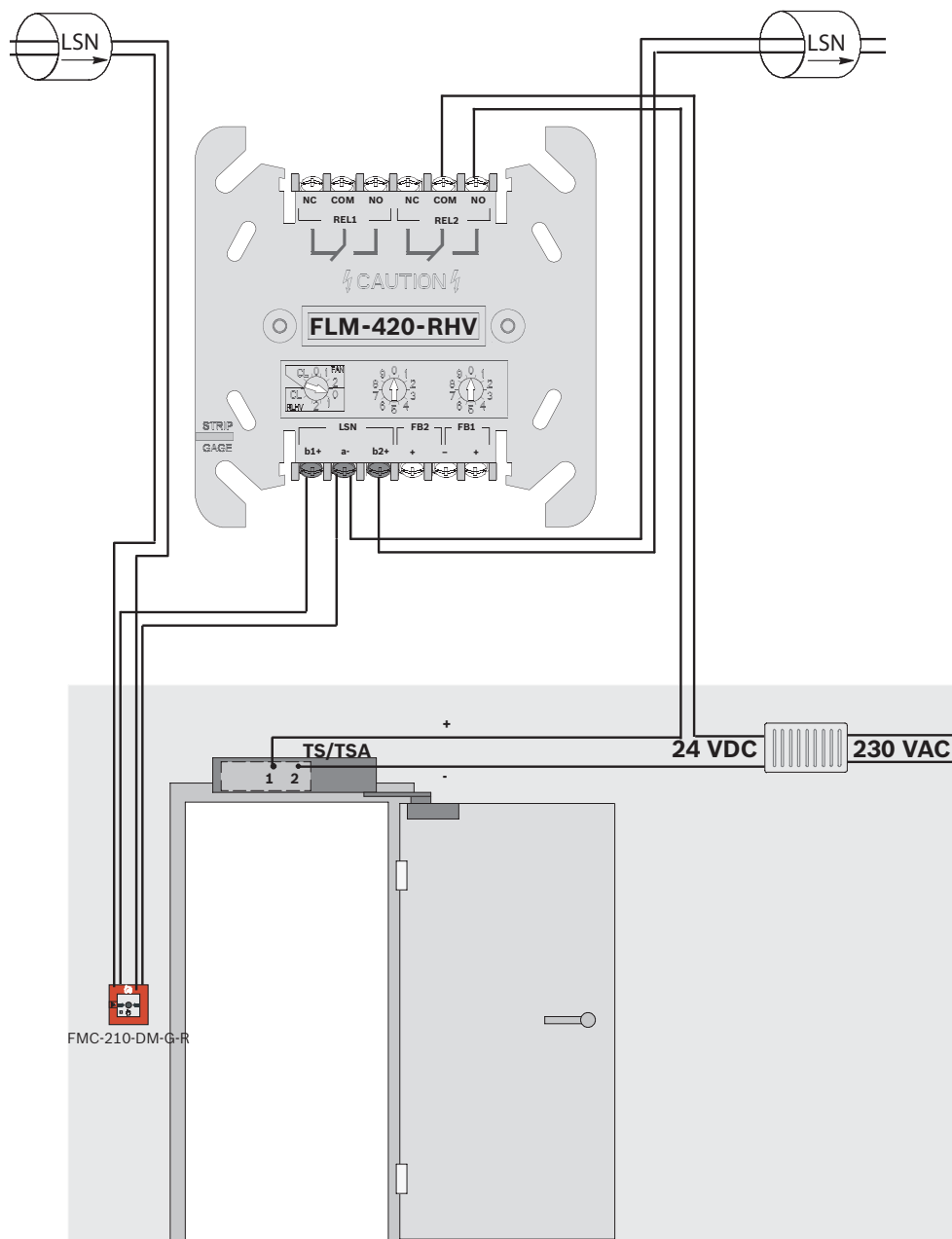
DIBT





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

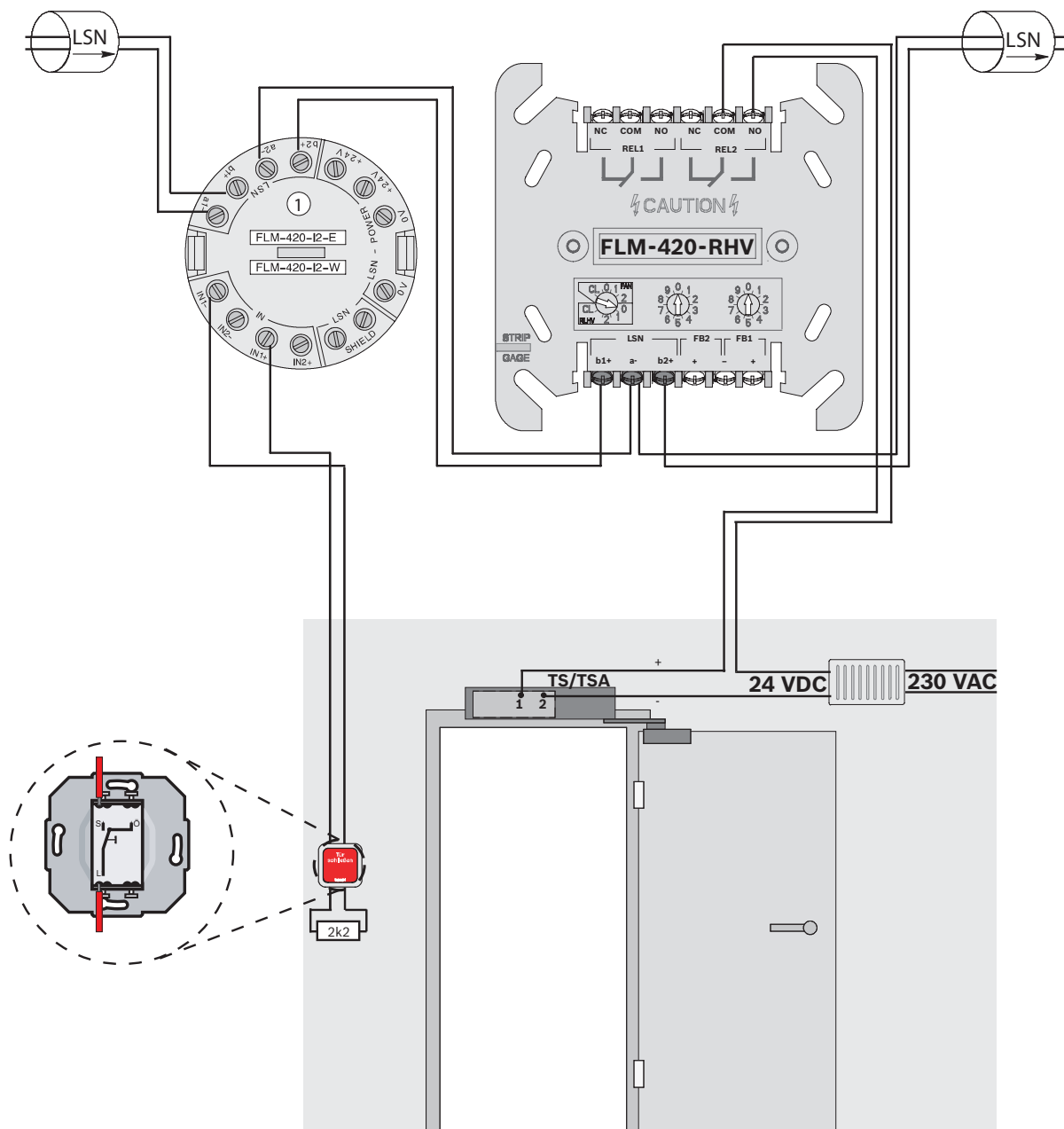
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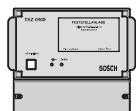




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

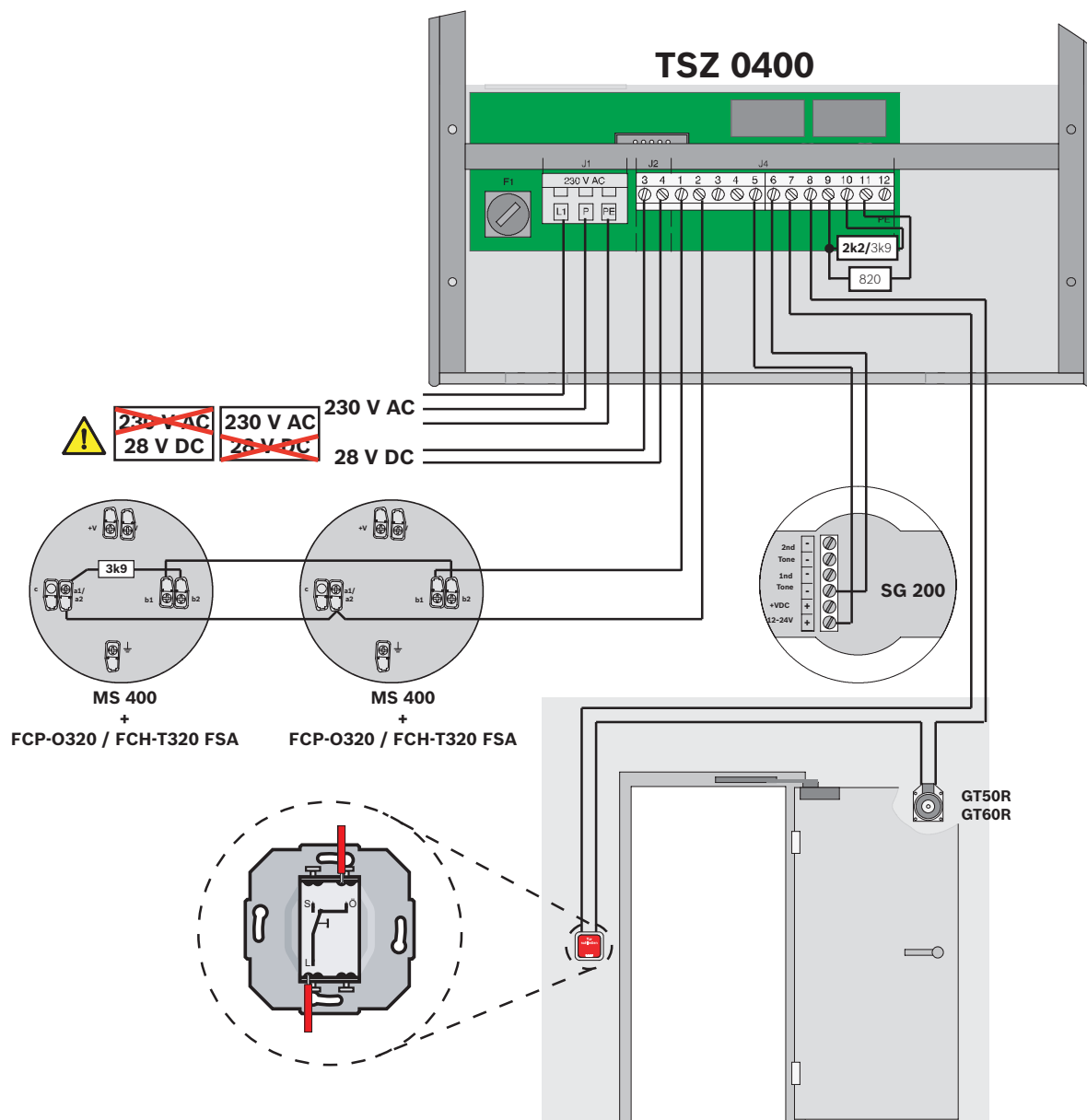
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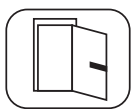




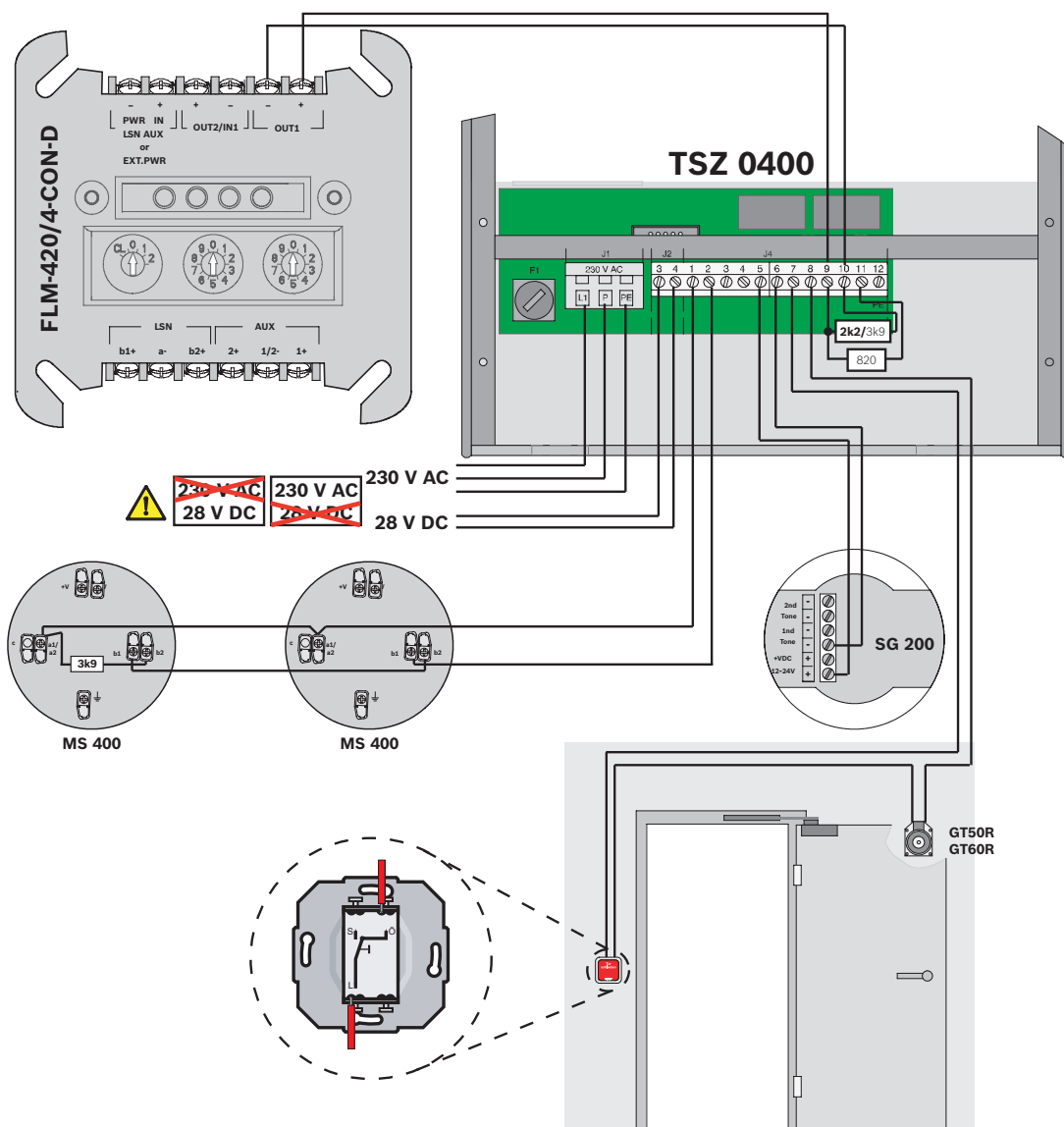
TSZ 0400

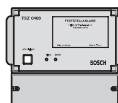
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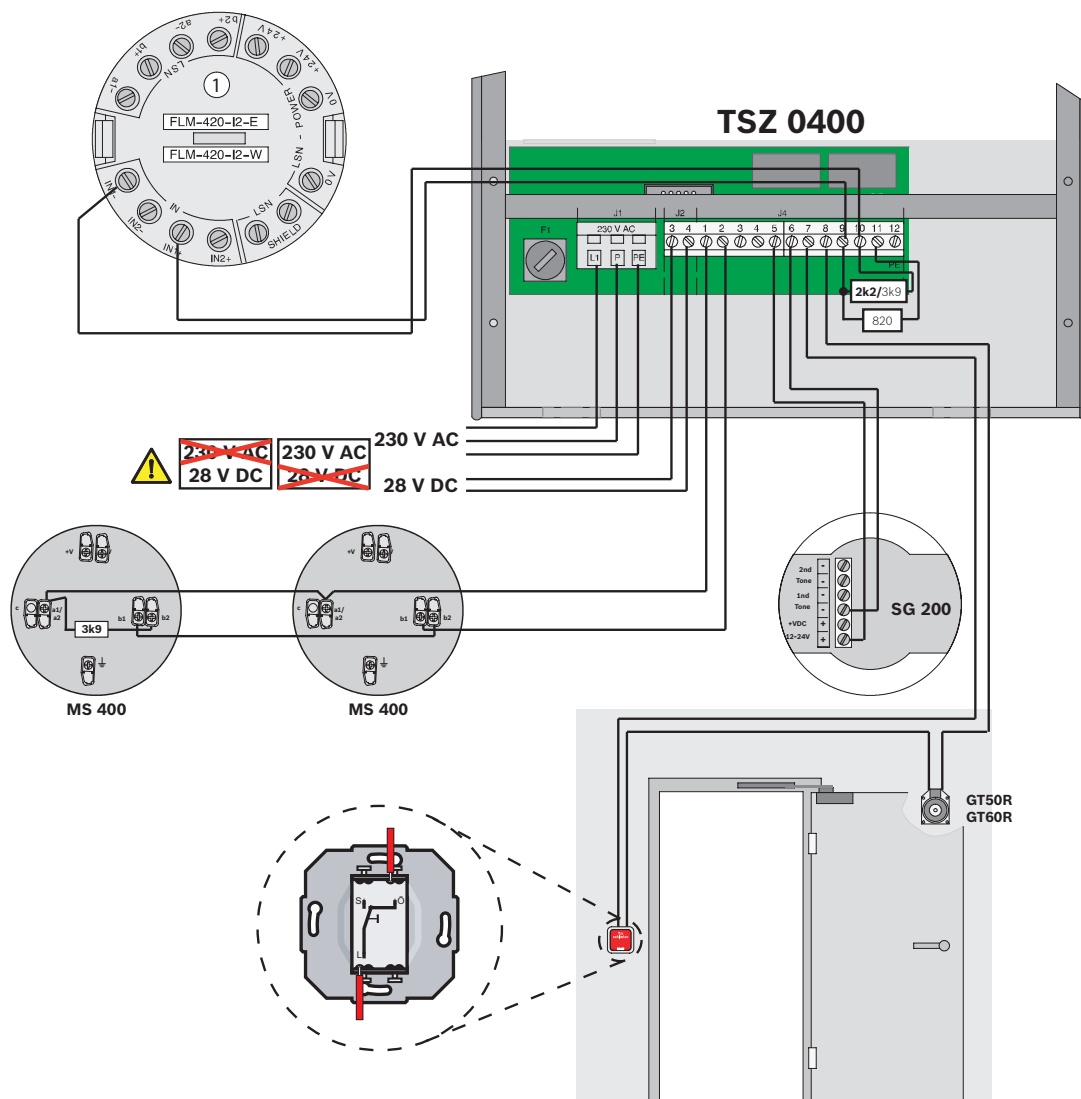
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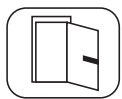




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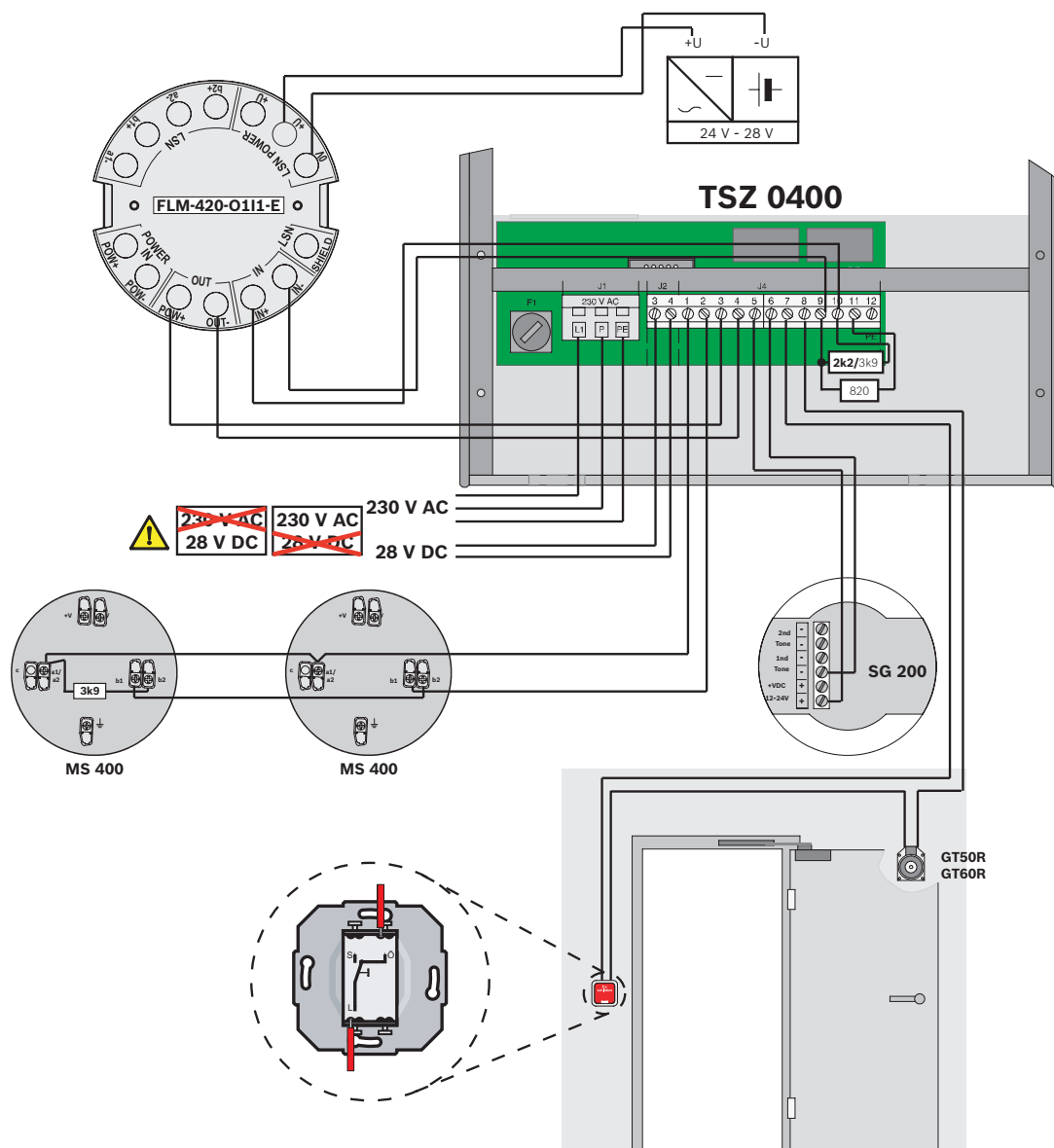
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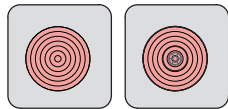




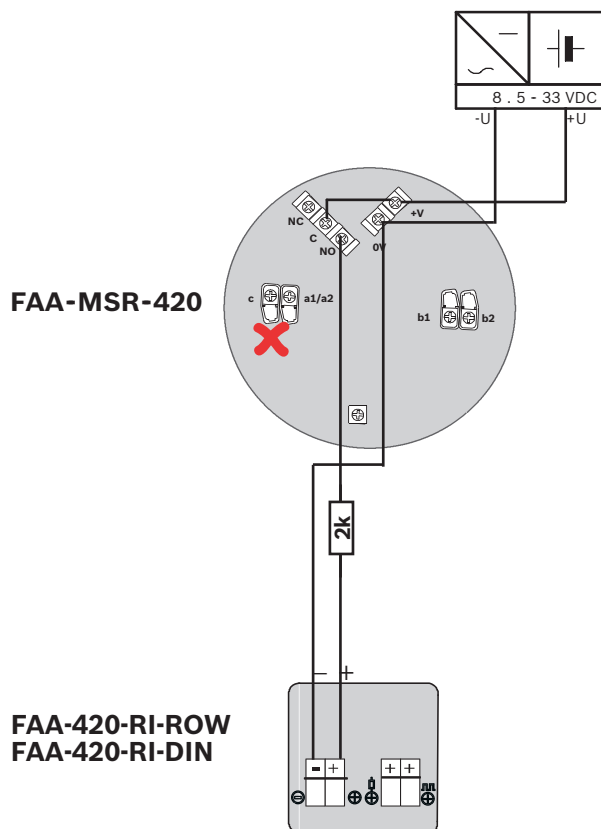
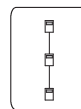
TSZ 0400

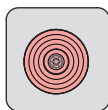
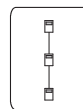
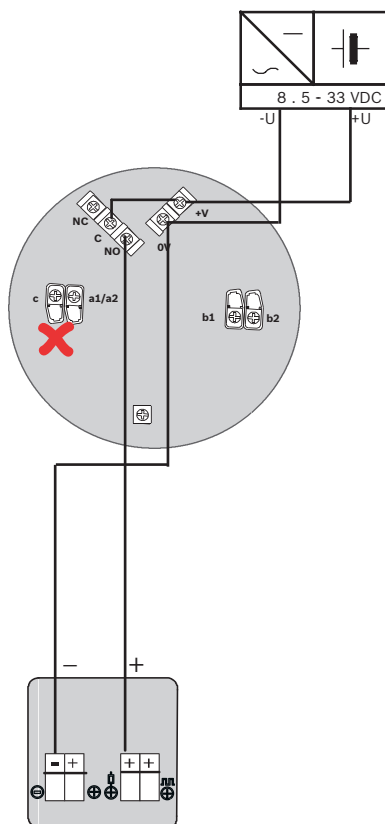
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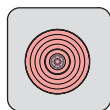




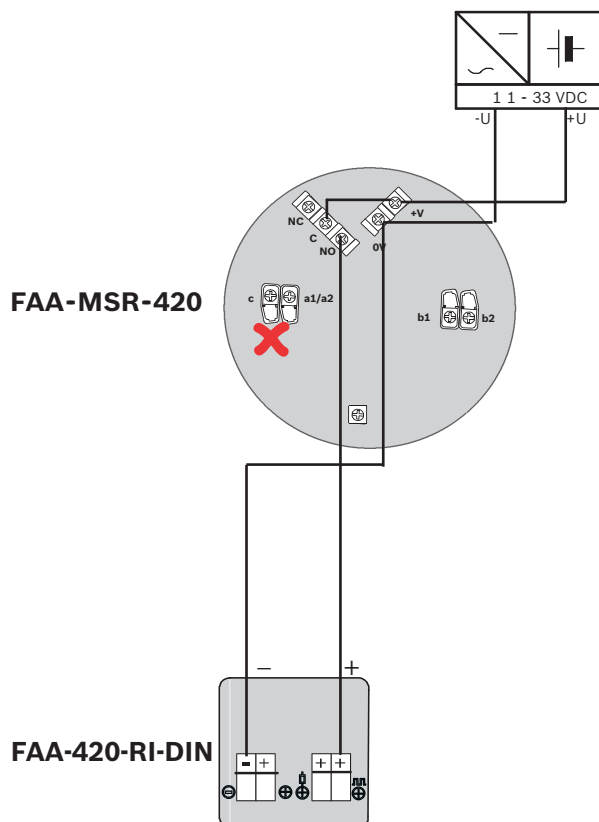
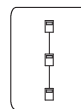
FAA-420-RI-ROW
FAA-420-RI-DIN



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



FAA-420-RI-DIN



3.3

Módulos funcionales



BCM-0000-B, Página 49

CZM 0004 A, Página 51

ENO 0000 A/B, Página 55

LSN 0300 A, Página 62

NZM 0002 A, Página 97

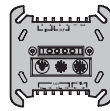
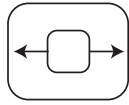
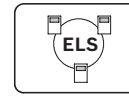
RMH 0002 A, Página 113

IOS 0020 A, Página 116

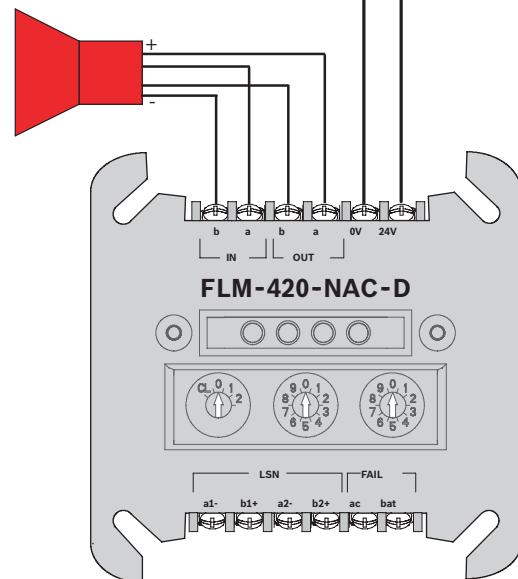
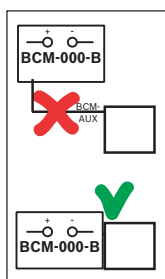
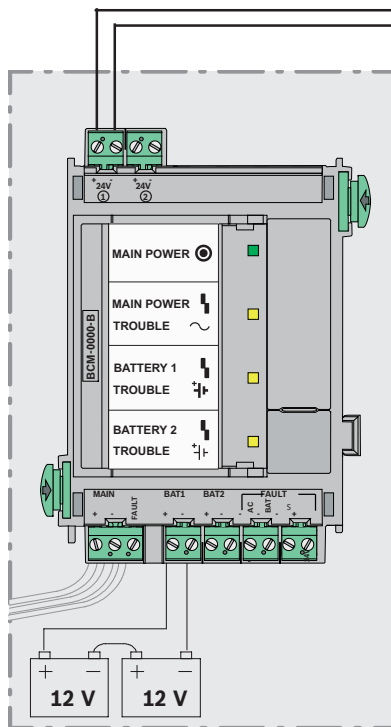
FPE-5000-UGM, Página 131

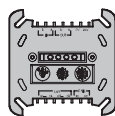
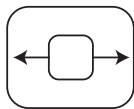
3.3.1

BCM-0000-B

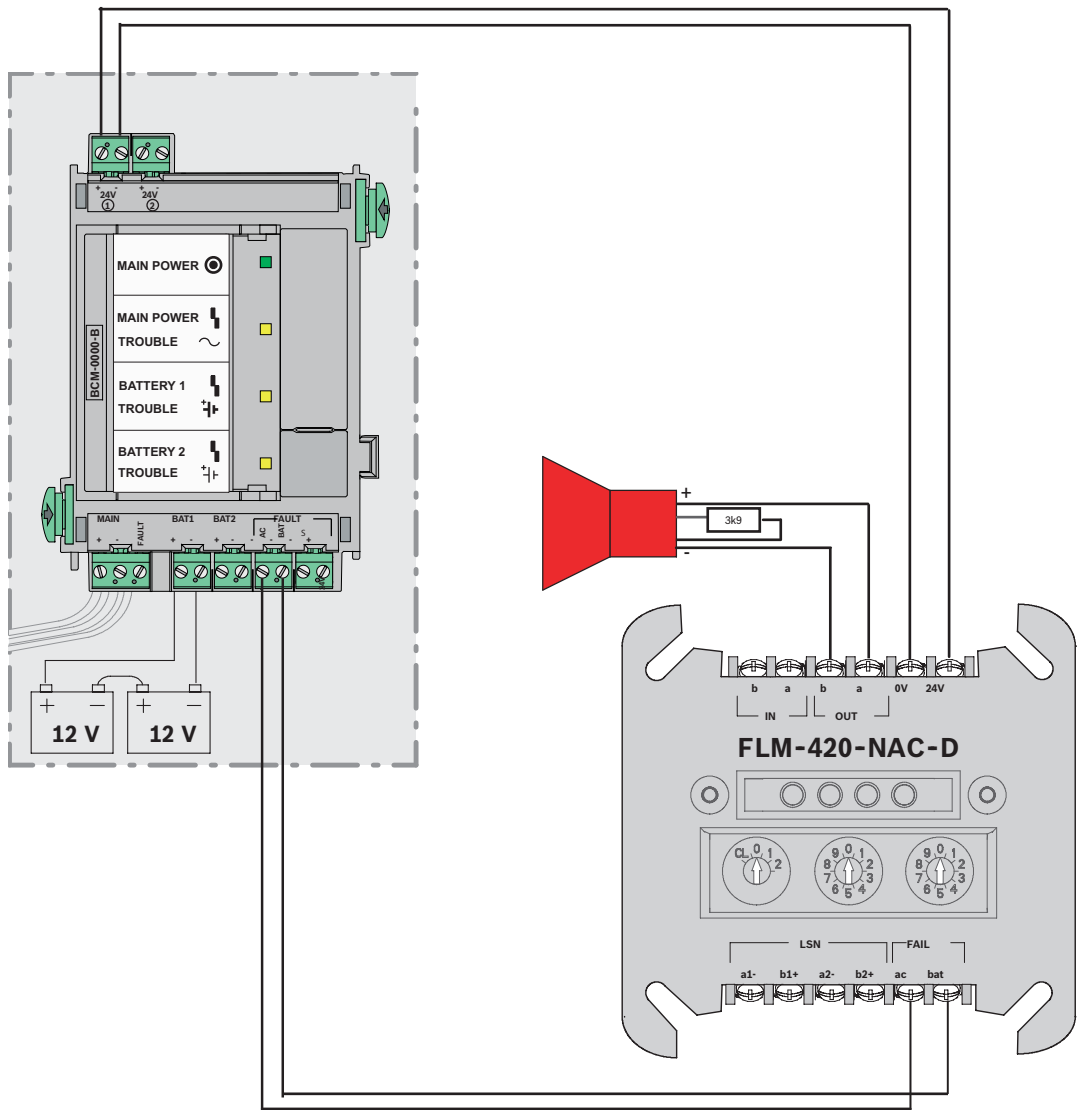
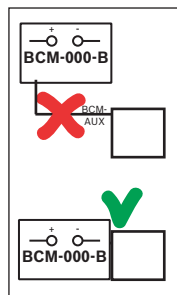
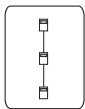
**FLM-420-NAC-D**

VdS 2489





FLM-420-NAC-D

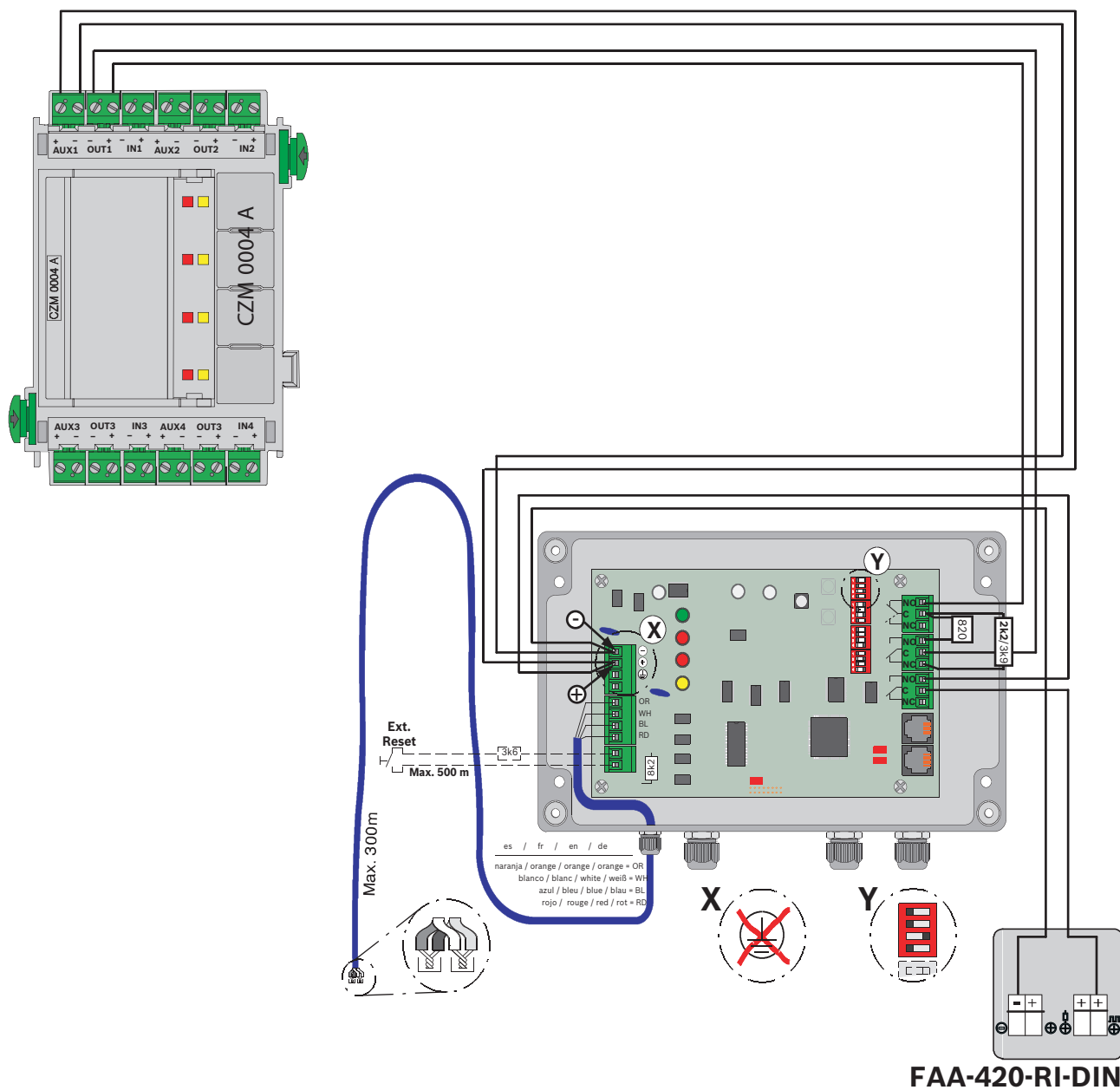


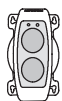
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CZM 0004 A

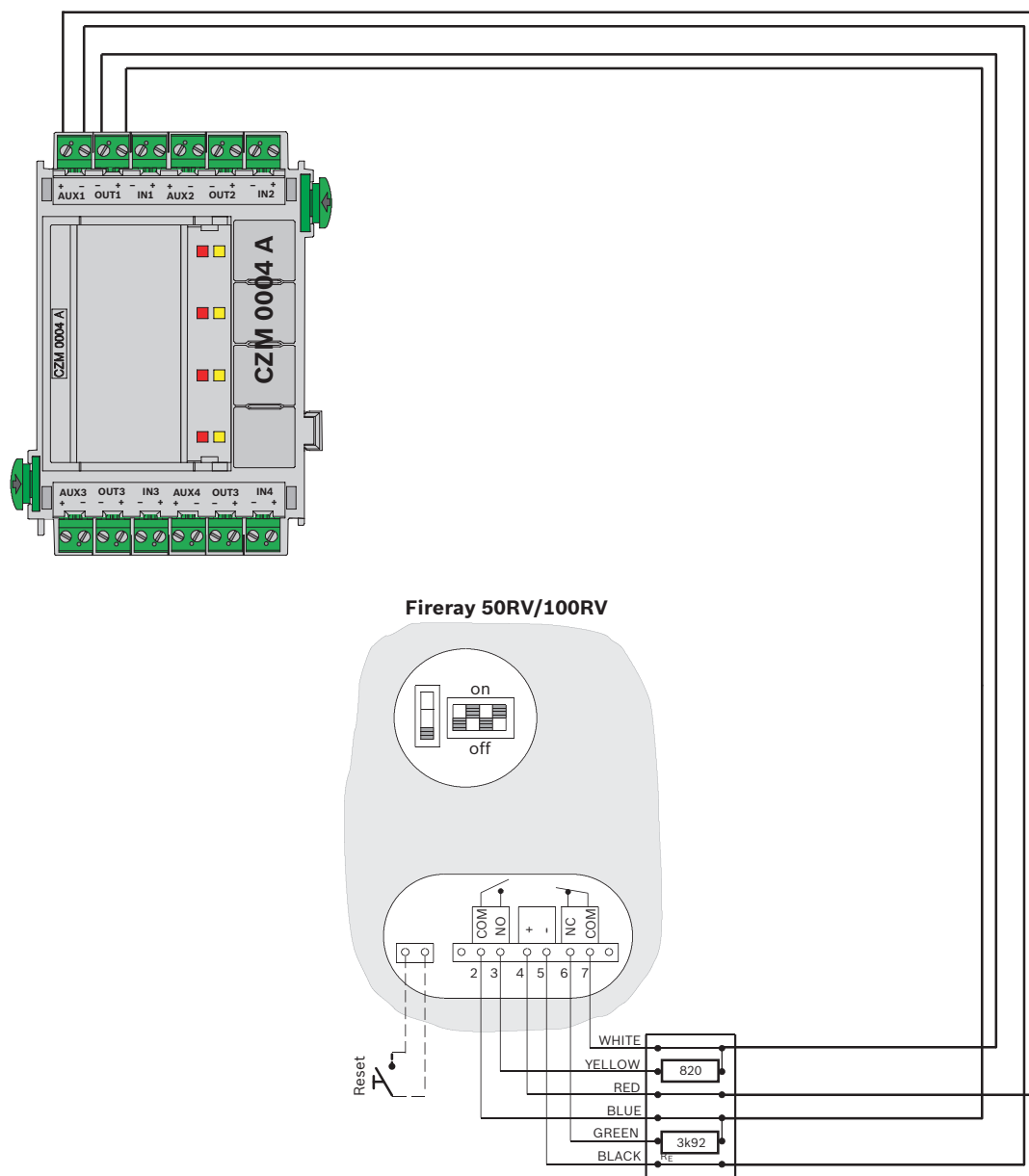


FCS-LWM-1



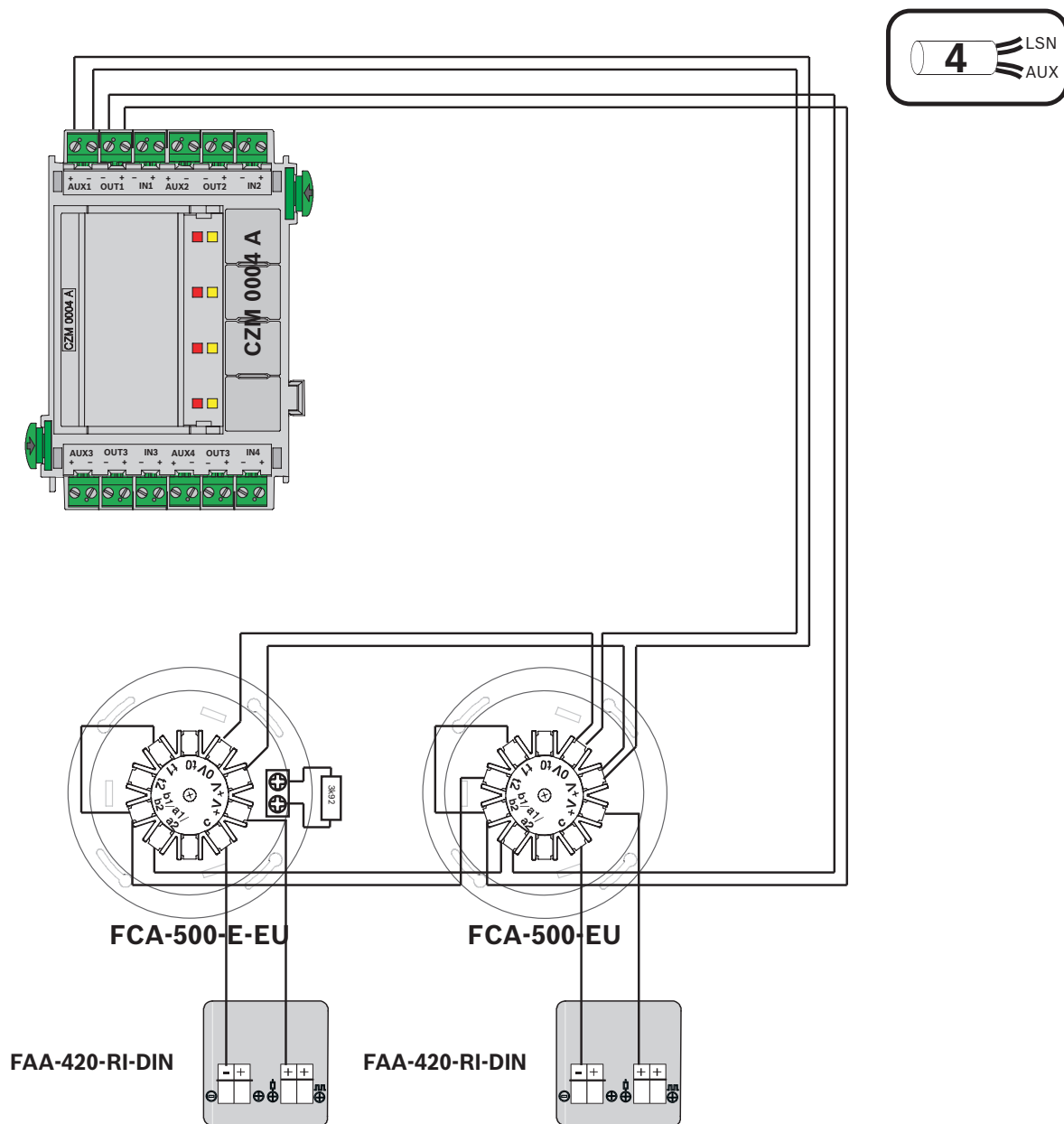
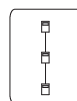


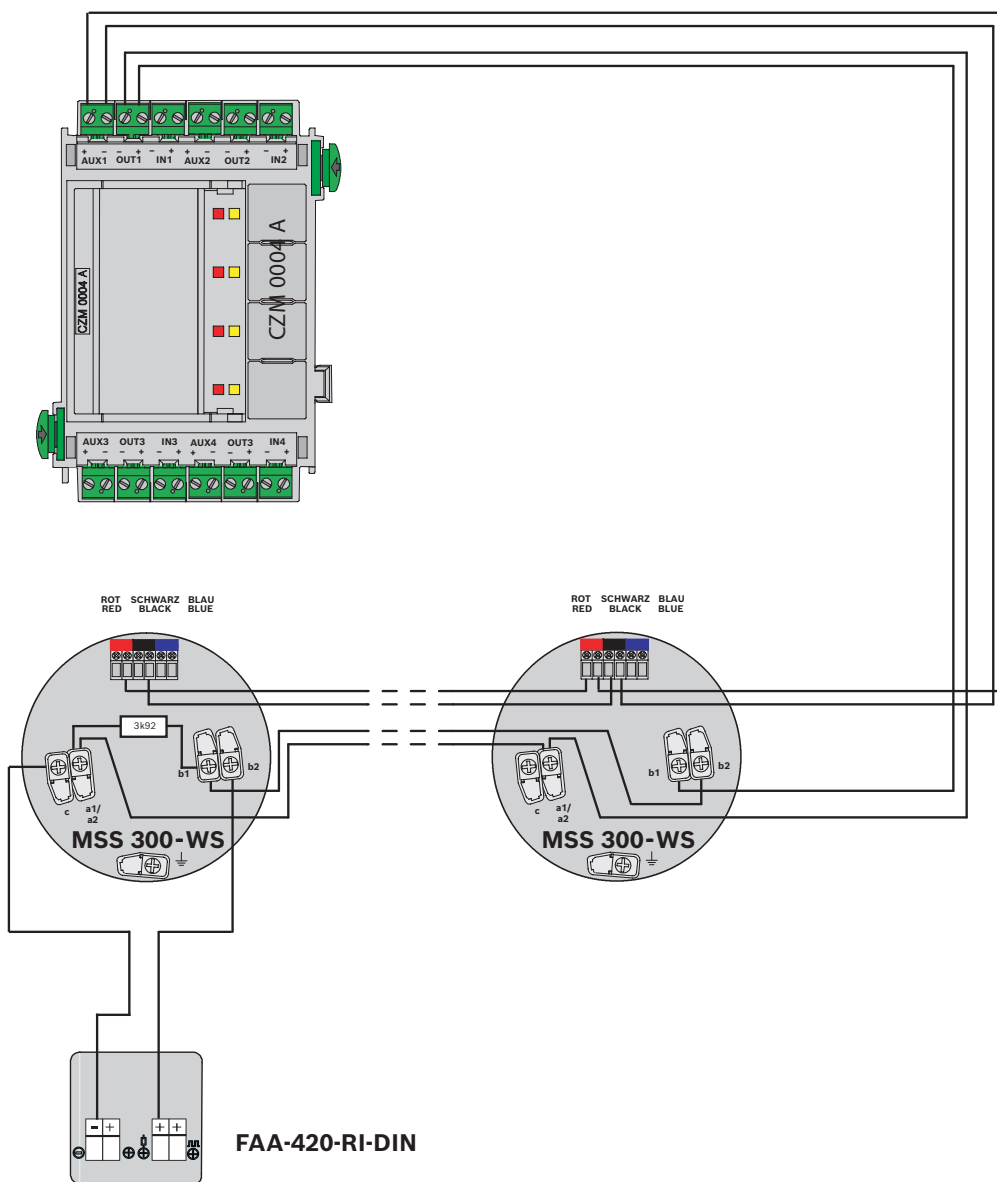
Fireray 50RV
Fireray 100RV





FCP-500



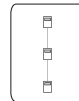
**MSS 300-WS**

3.3.3

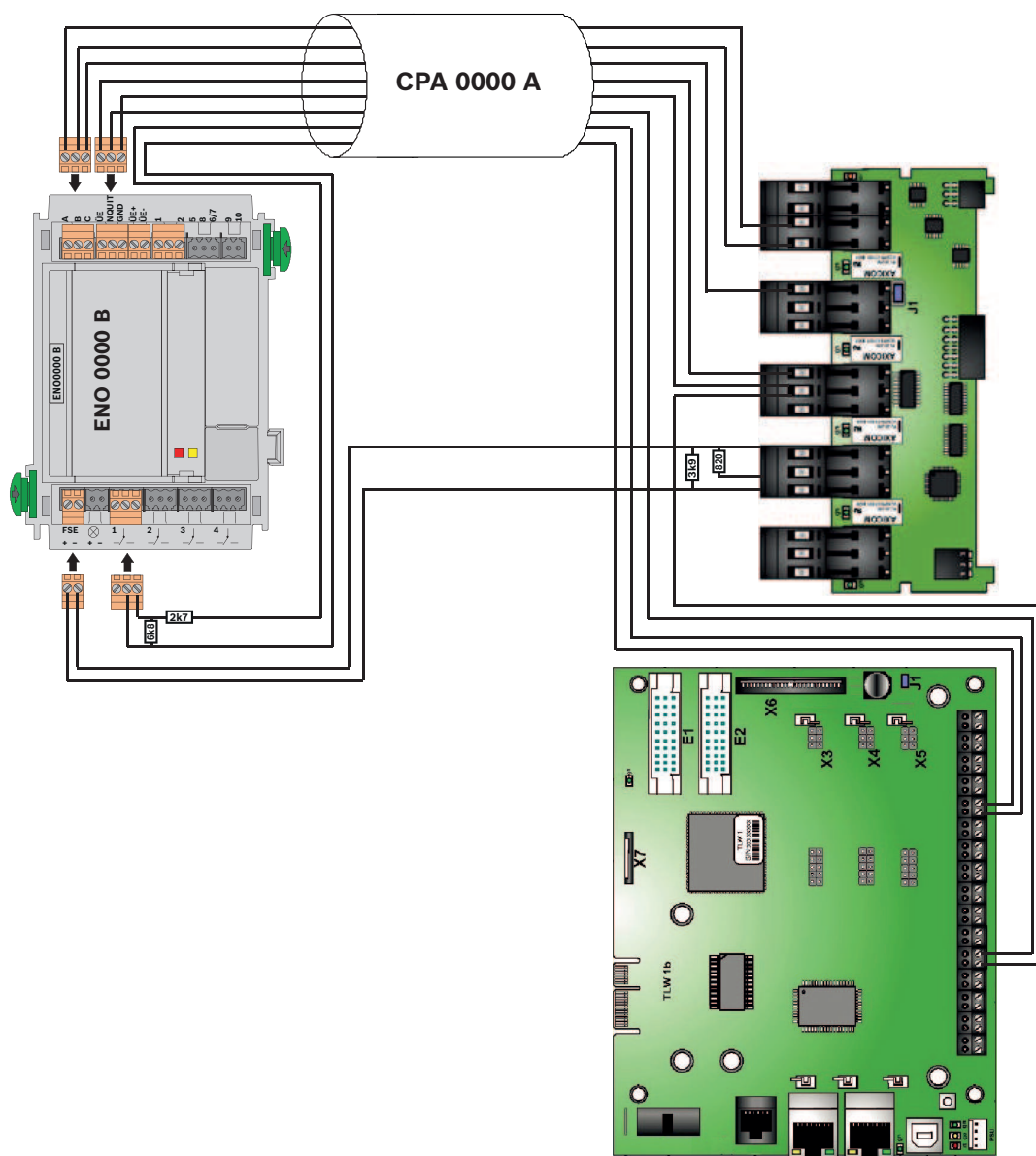
ENO 0000 A/B

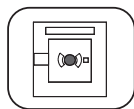


AT5000 IP/GPRS

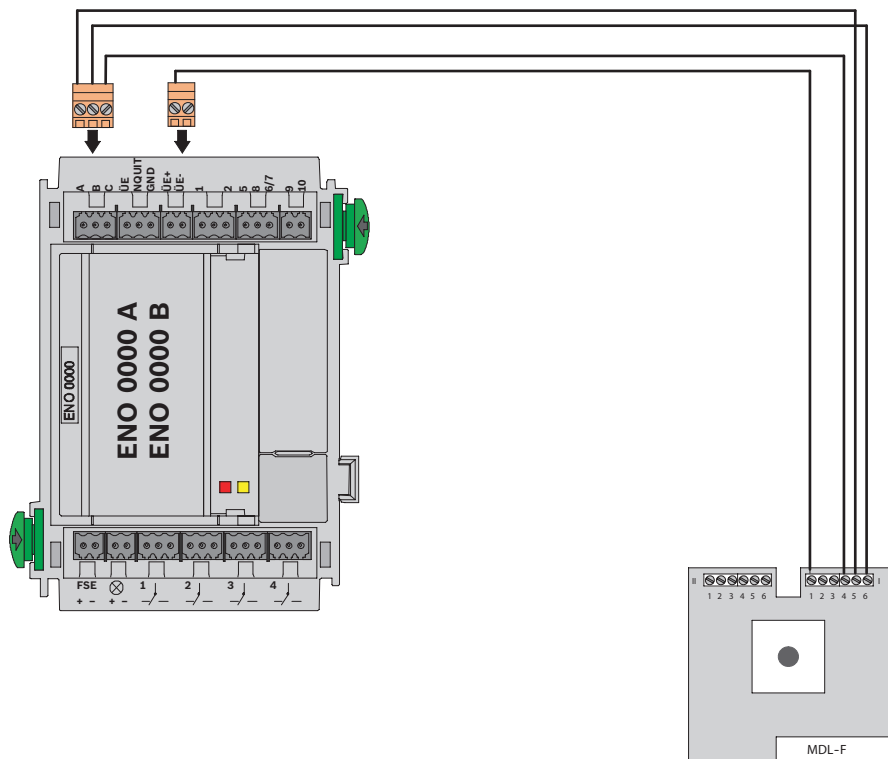


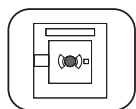
EN 54-2



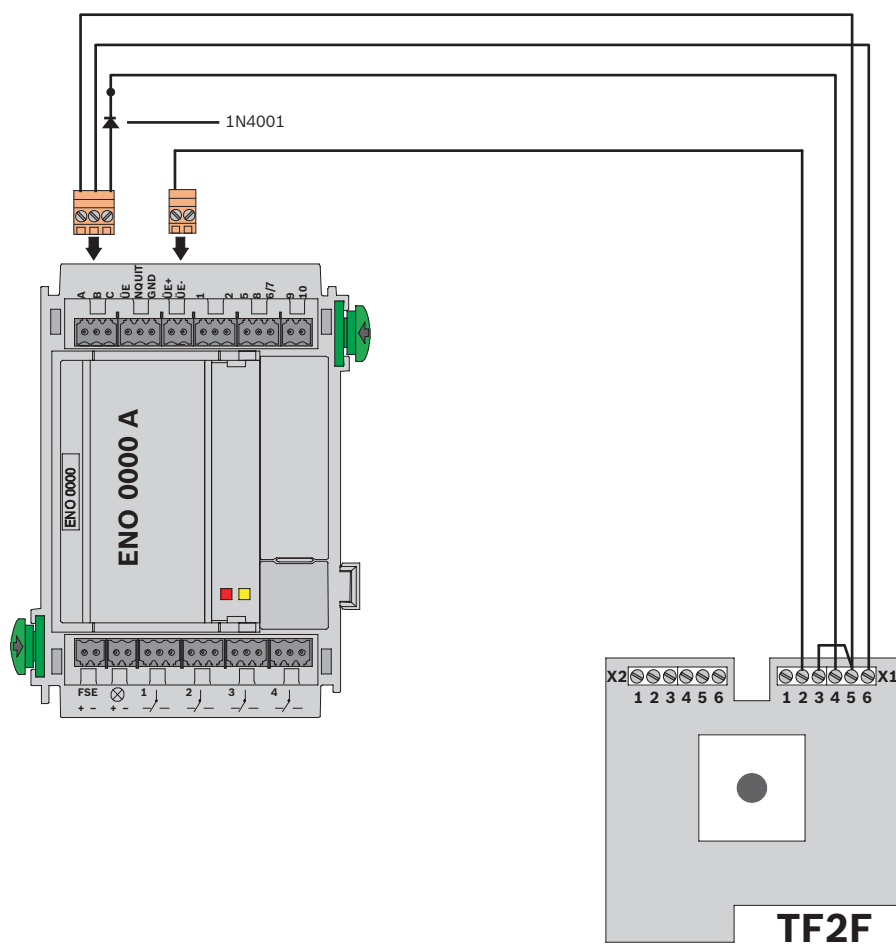
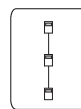


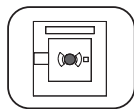
MDL-F



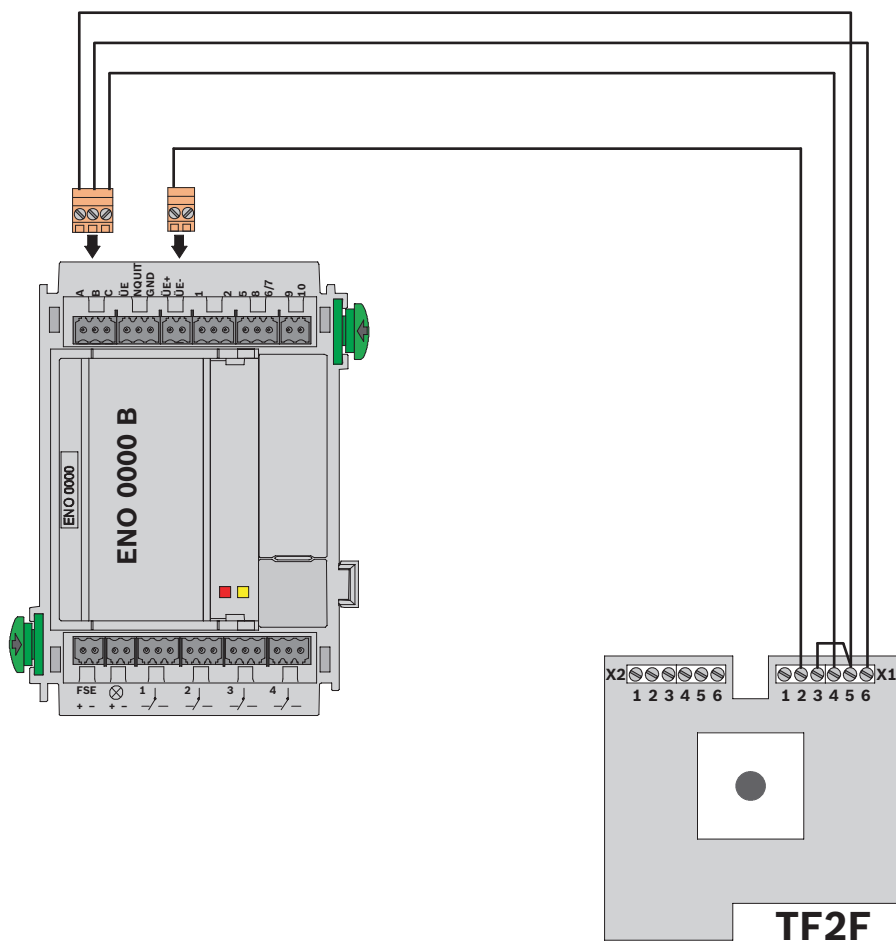
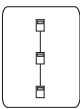


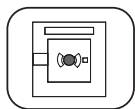
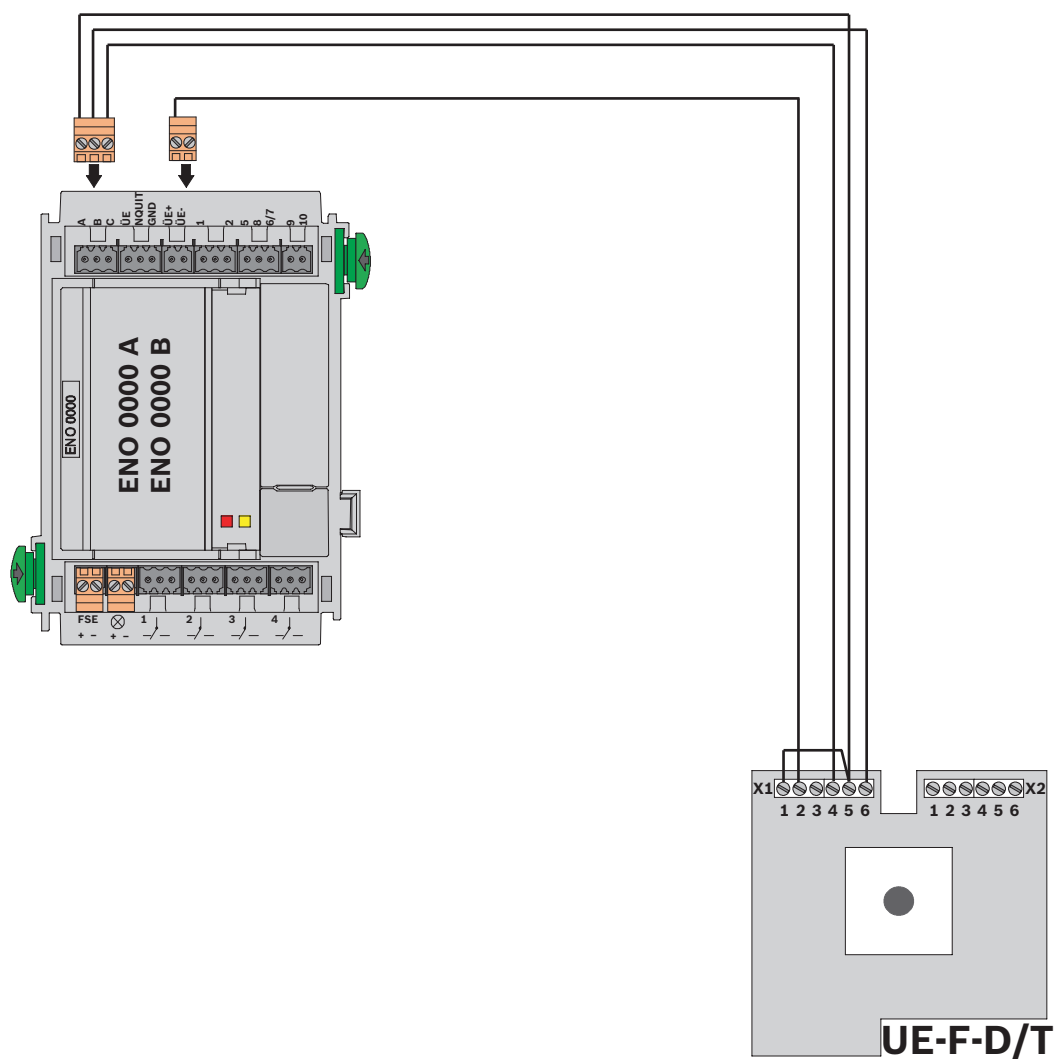
TF2F

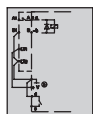
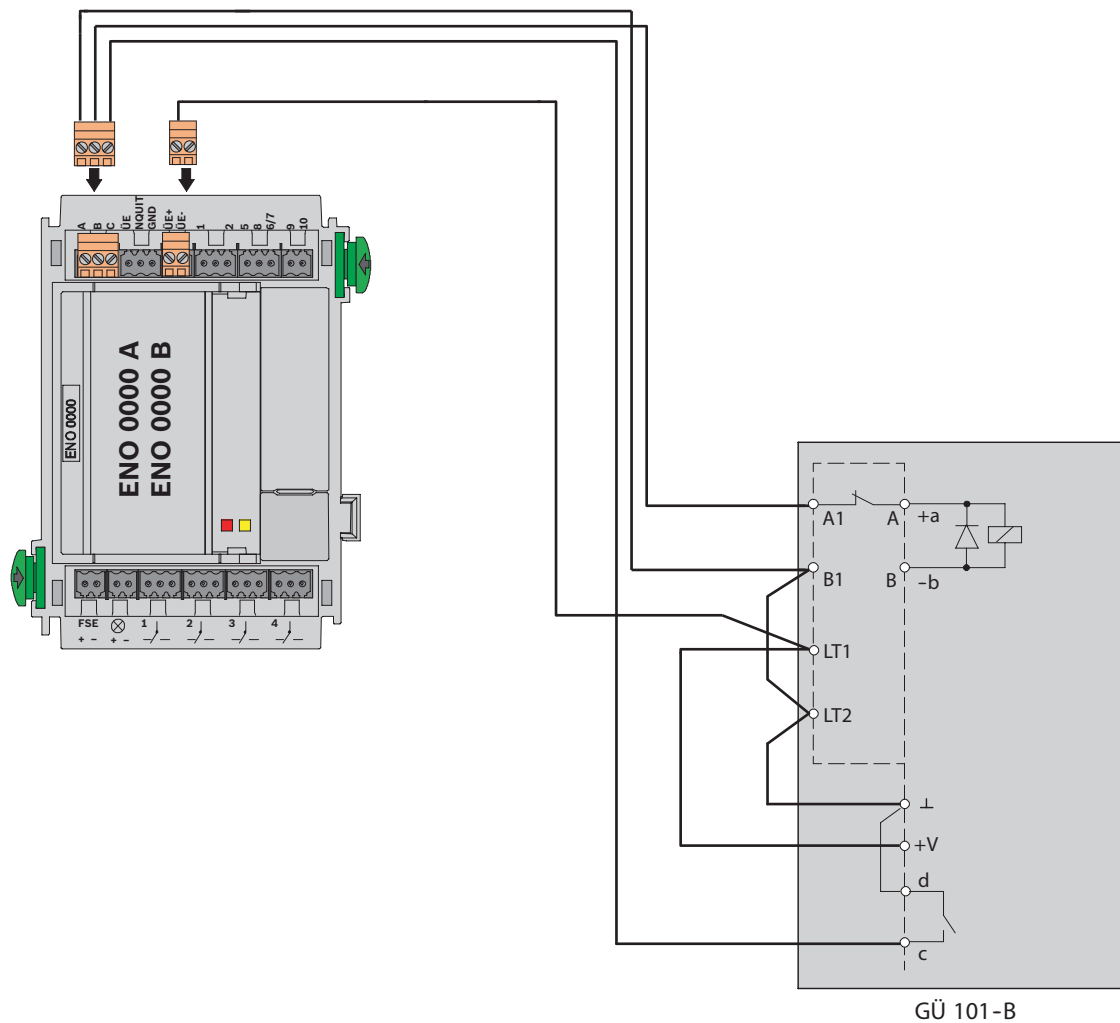
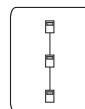


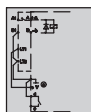


TF2F

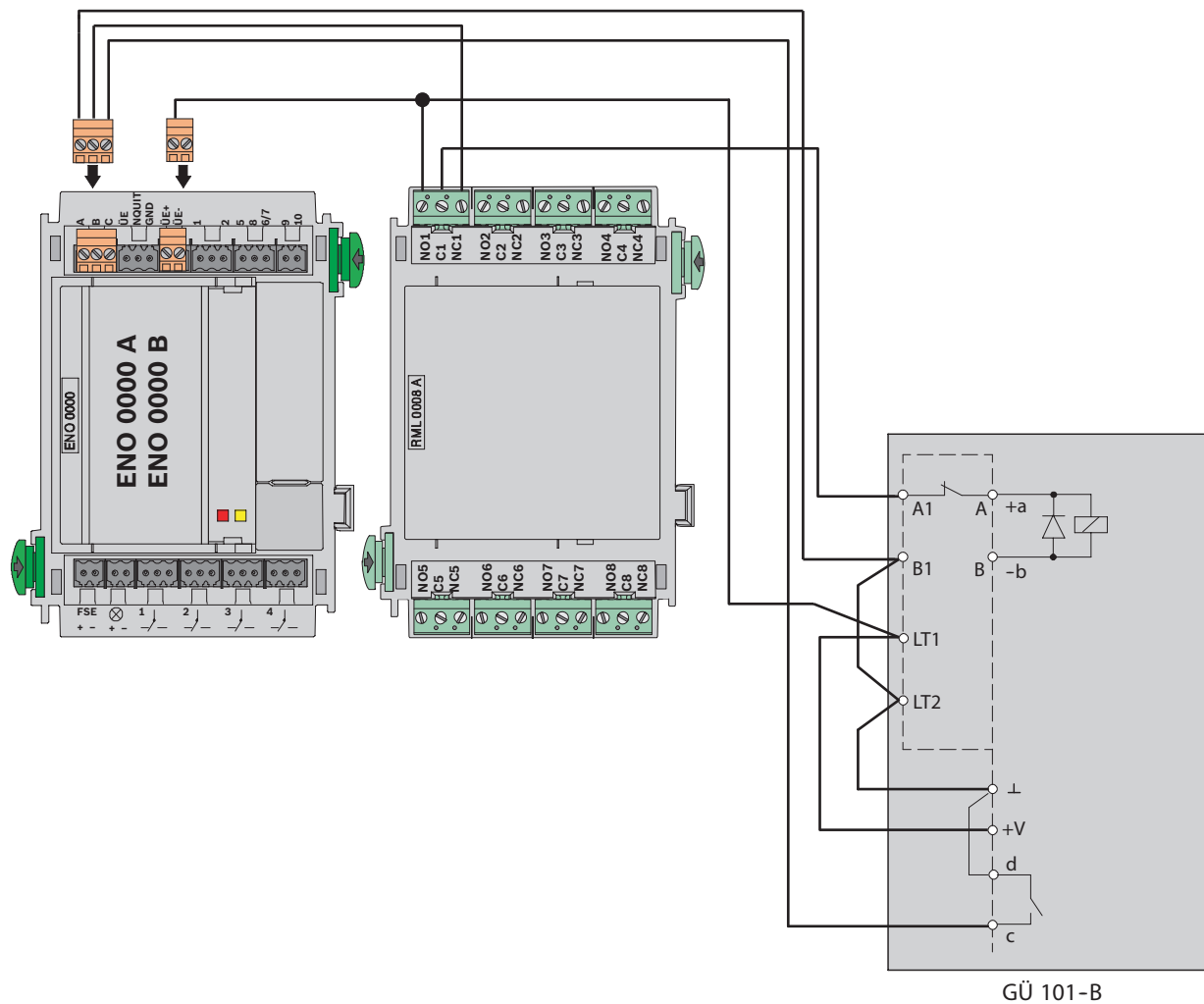
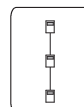


**UE-F-D/T**

**GÜ 101-B****GÜ 101-B**

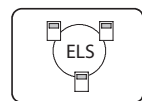
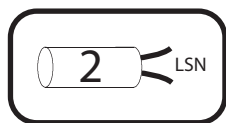


GÜ 101-B

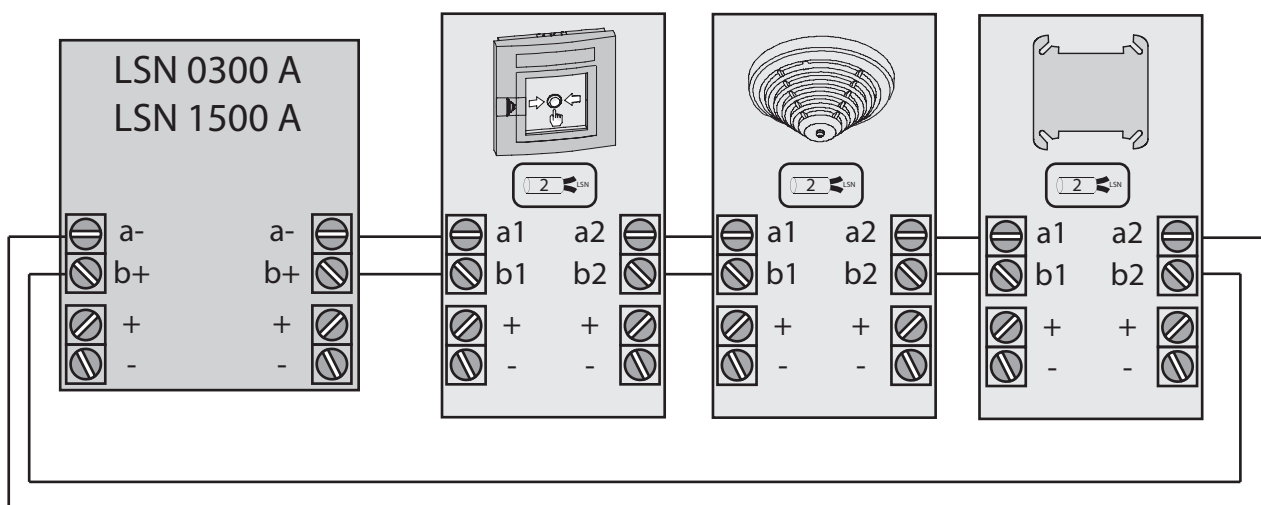


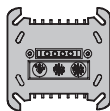
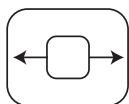
3.3.4

LSN 0300 A

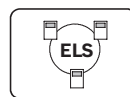


VdS 2489

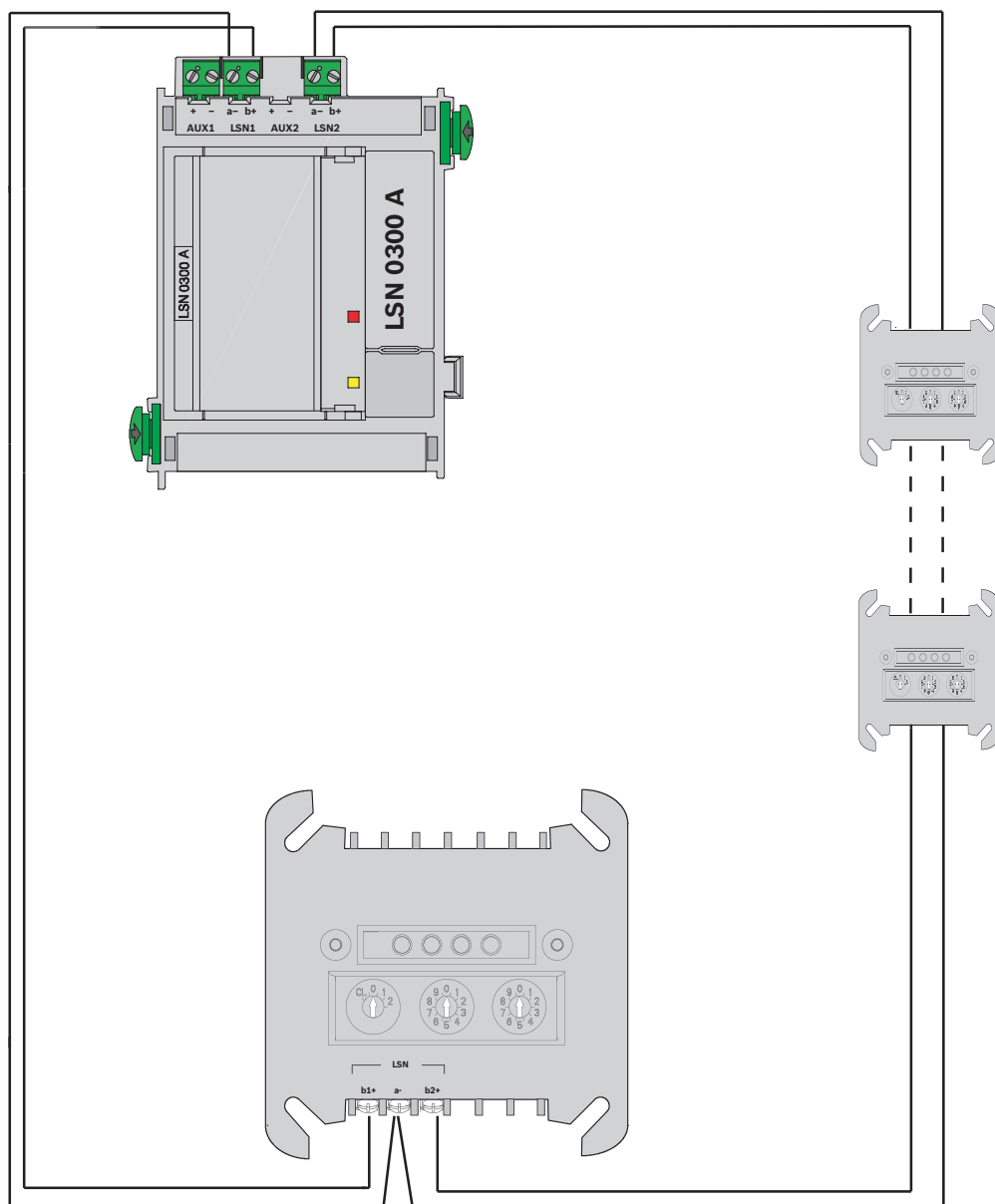


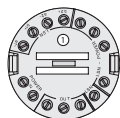
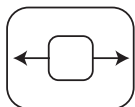


FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

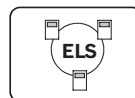


VdS 2489

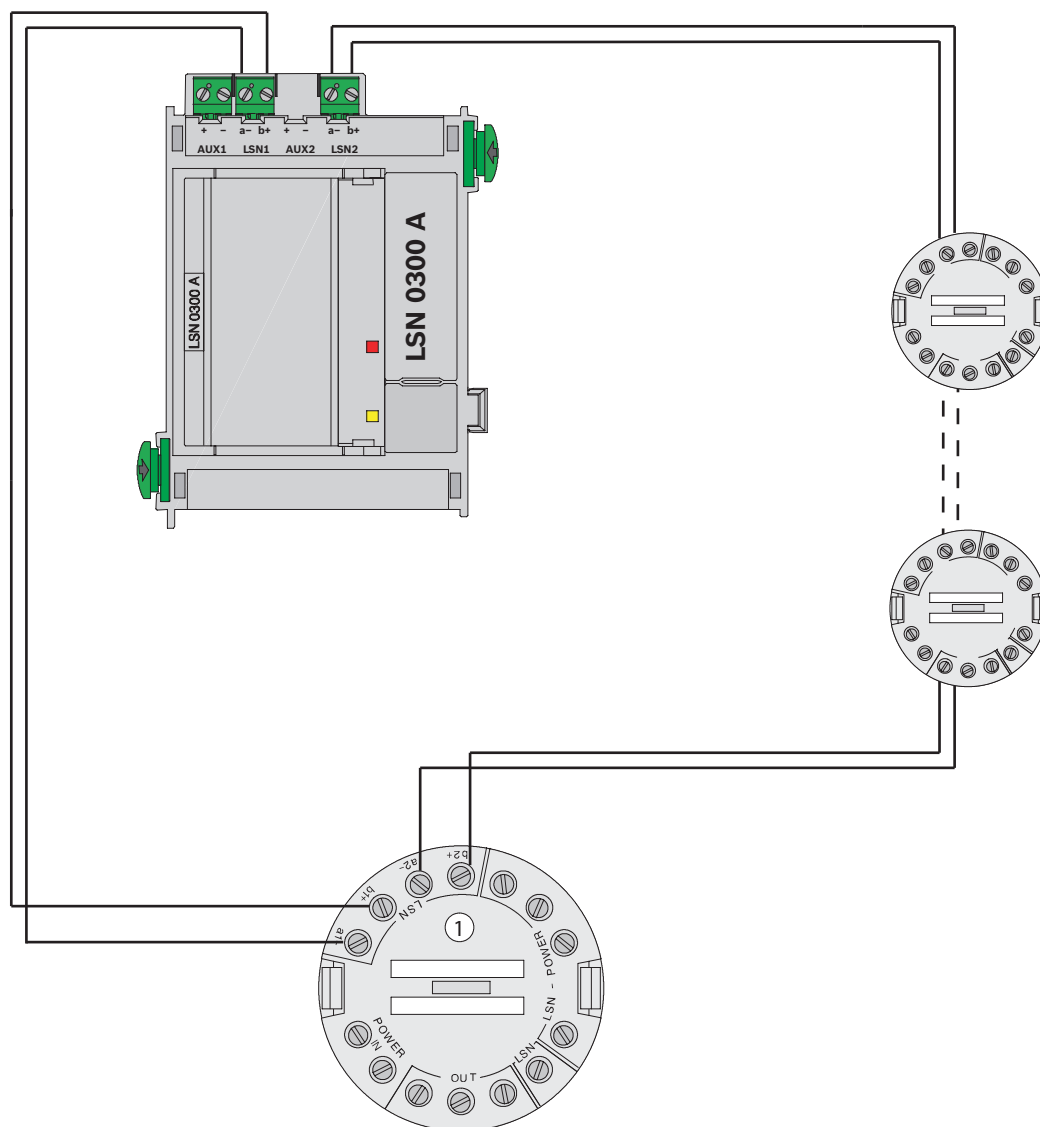


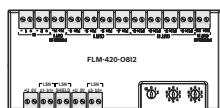
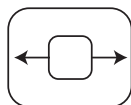
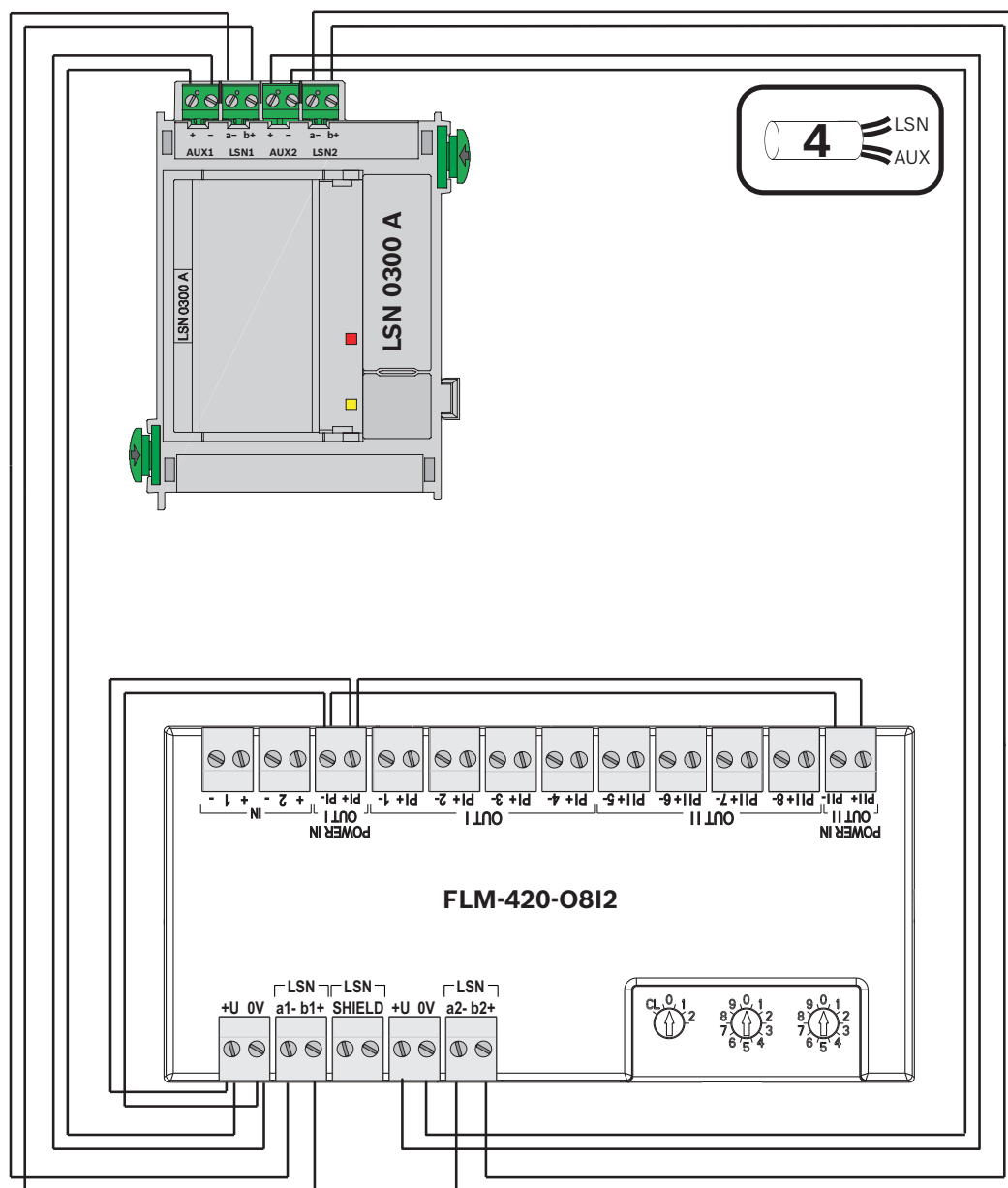
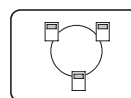


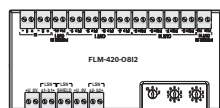
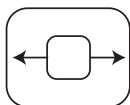
FLM-420-I2-E/W
FLM-420-RLV1-E



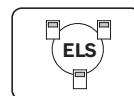
VdS 2489



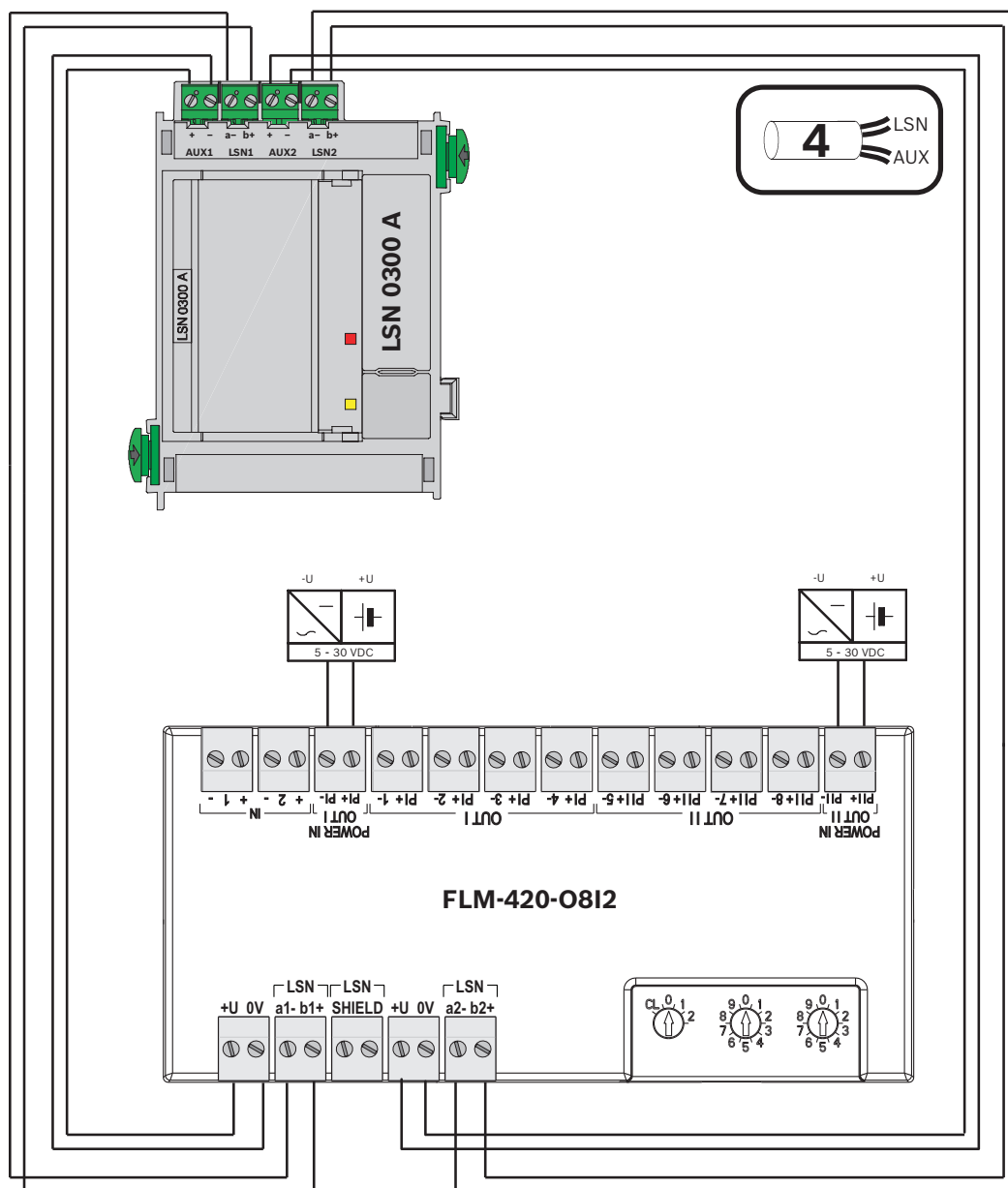
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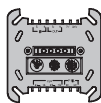
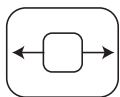


FLM-420-O8I2-S

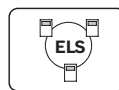


VdS 2489

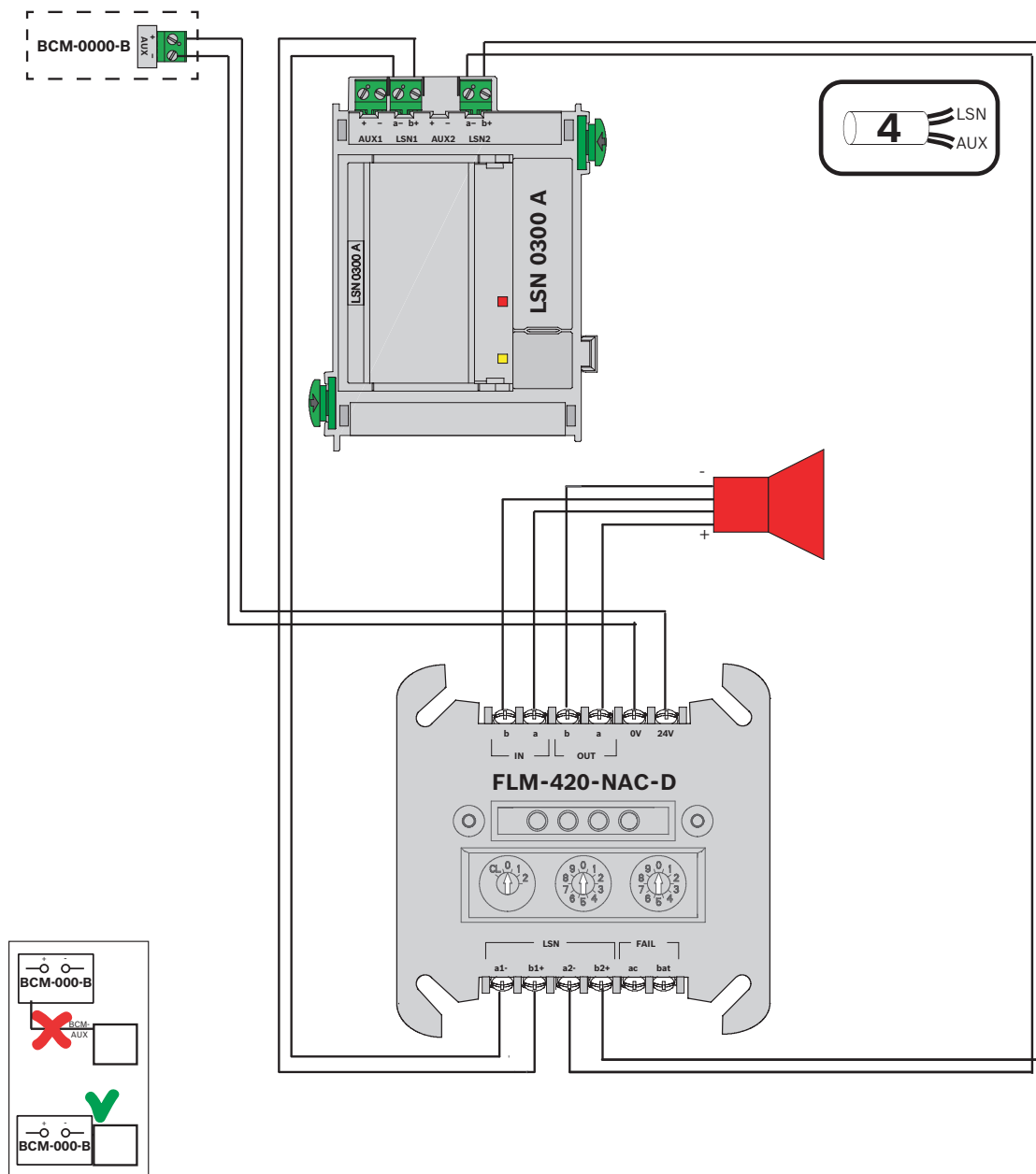


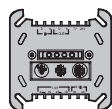
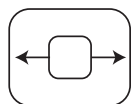


FLM-420-NAC-D/S

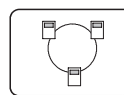


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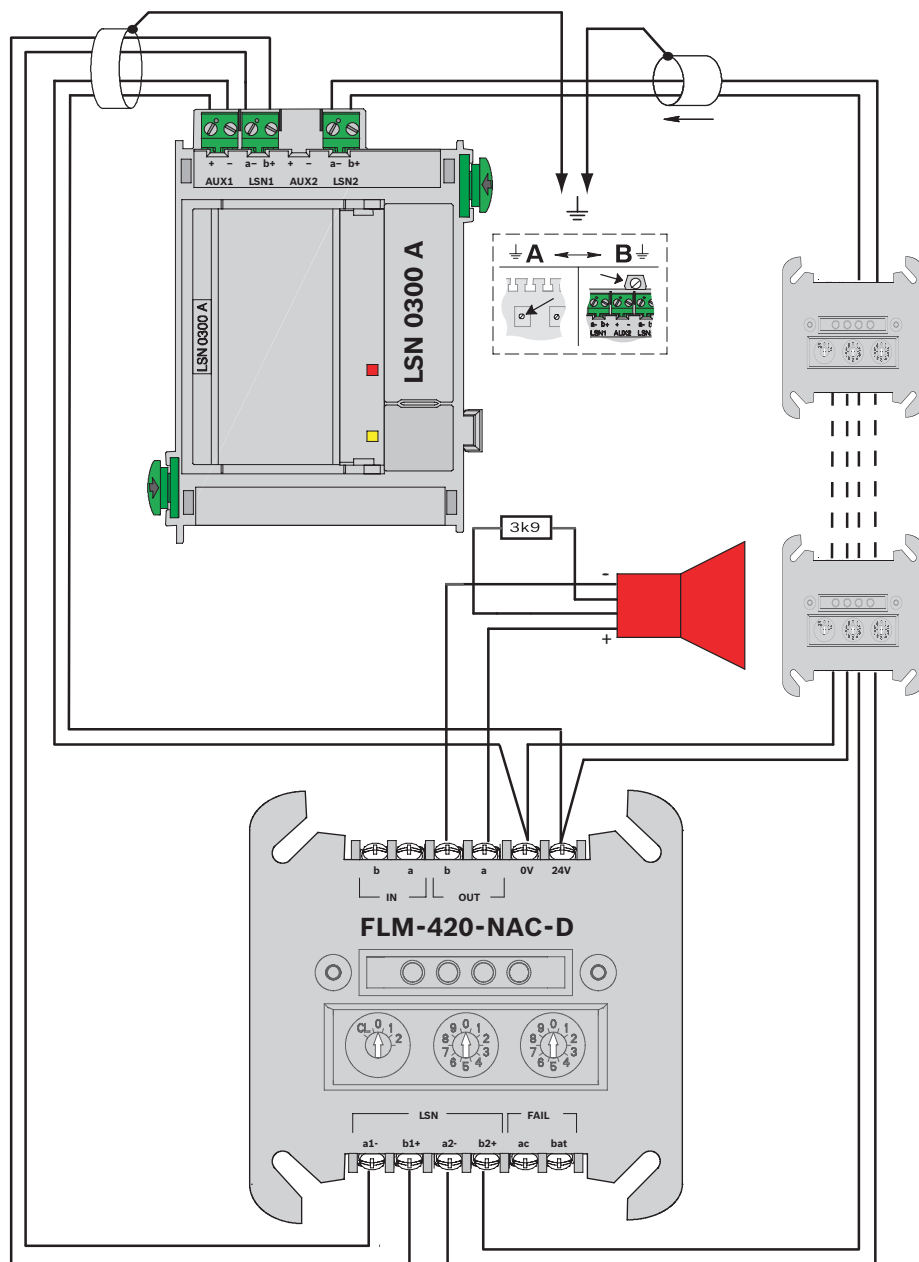


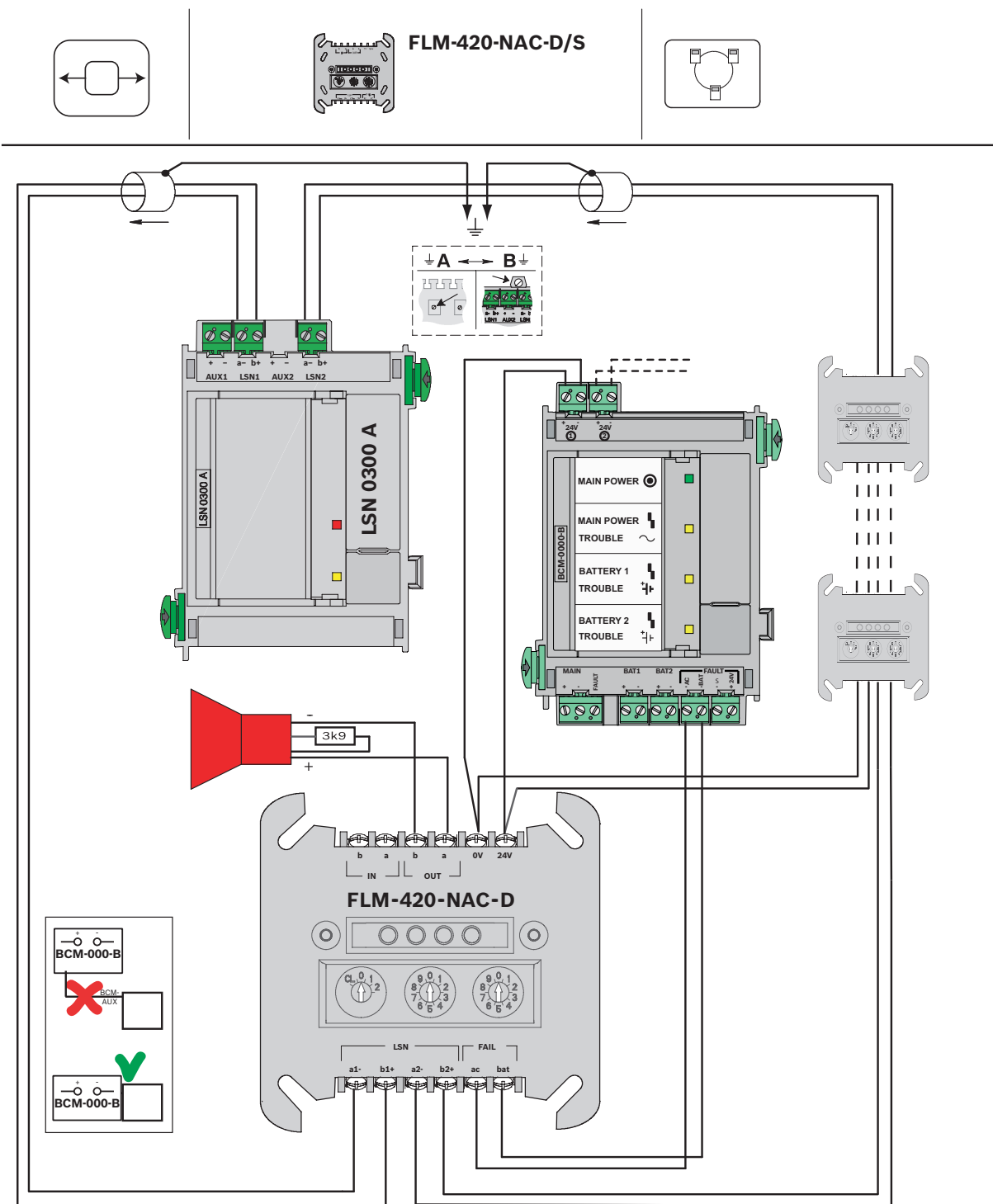


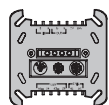
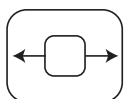
FLM-420-NAC-D/S



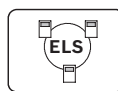
EN 54-2



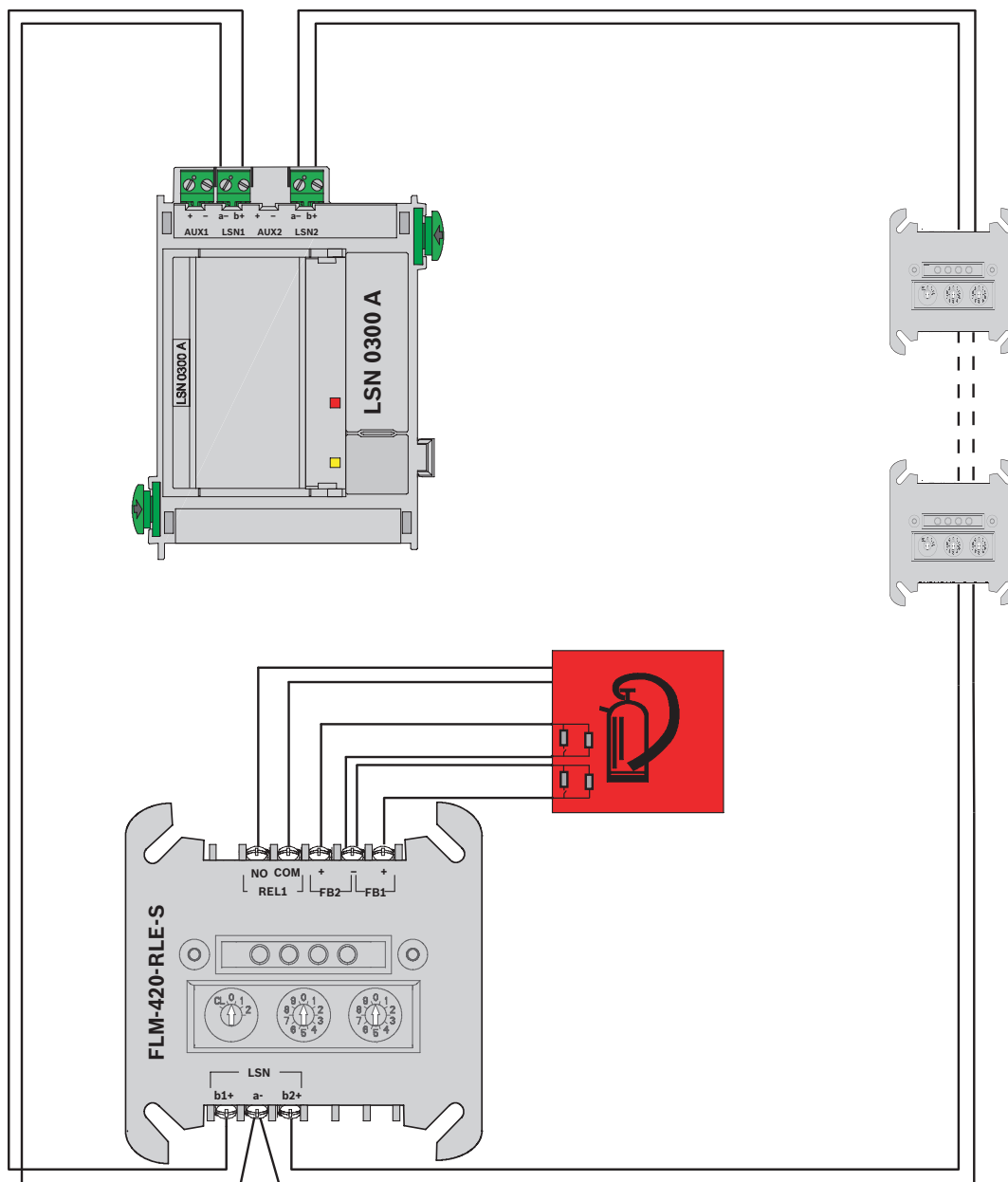


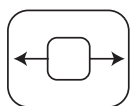
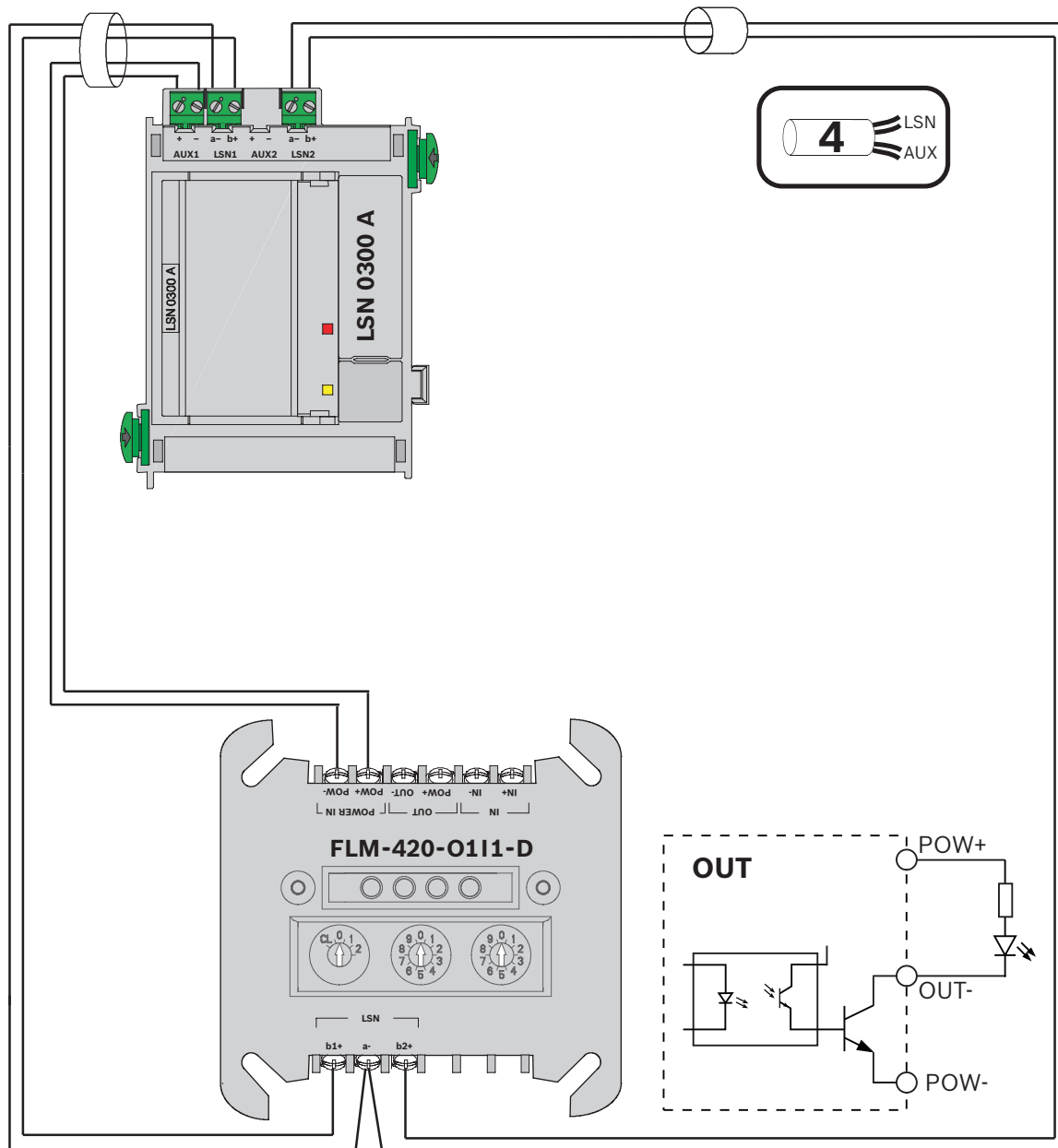
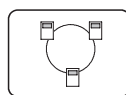


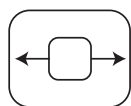
FLM-420-RLE-S



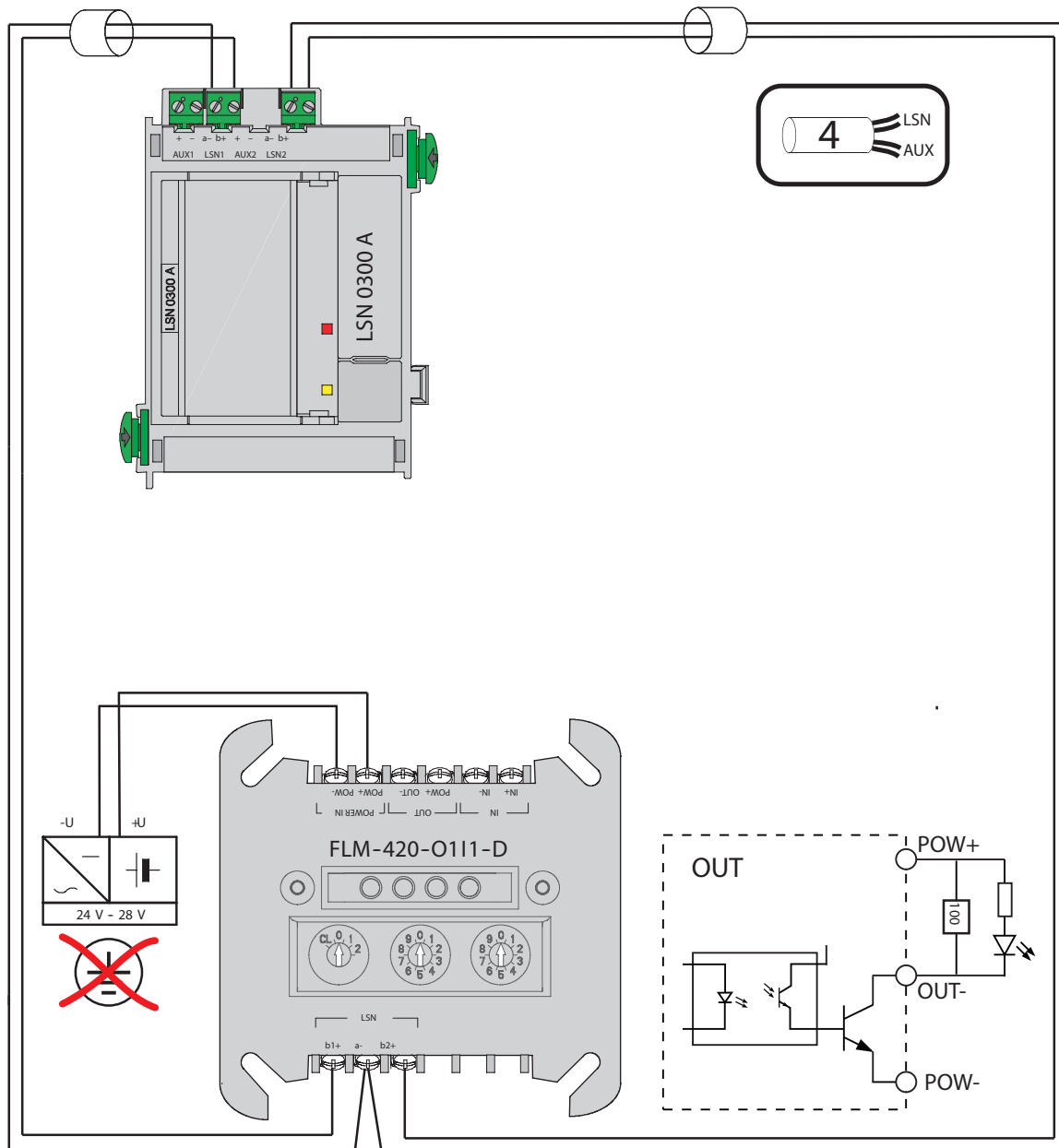
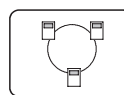
VdS 2489

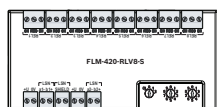
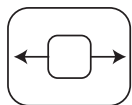


**FLM-420-O111-D**

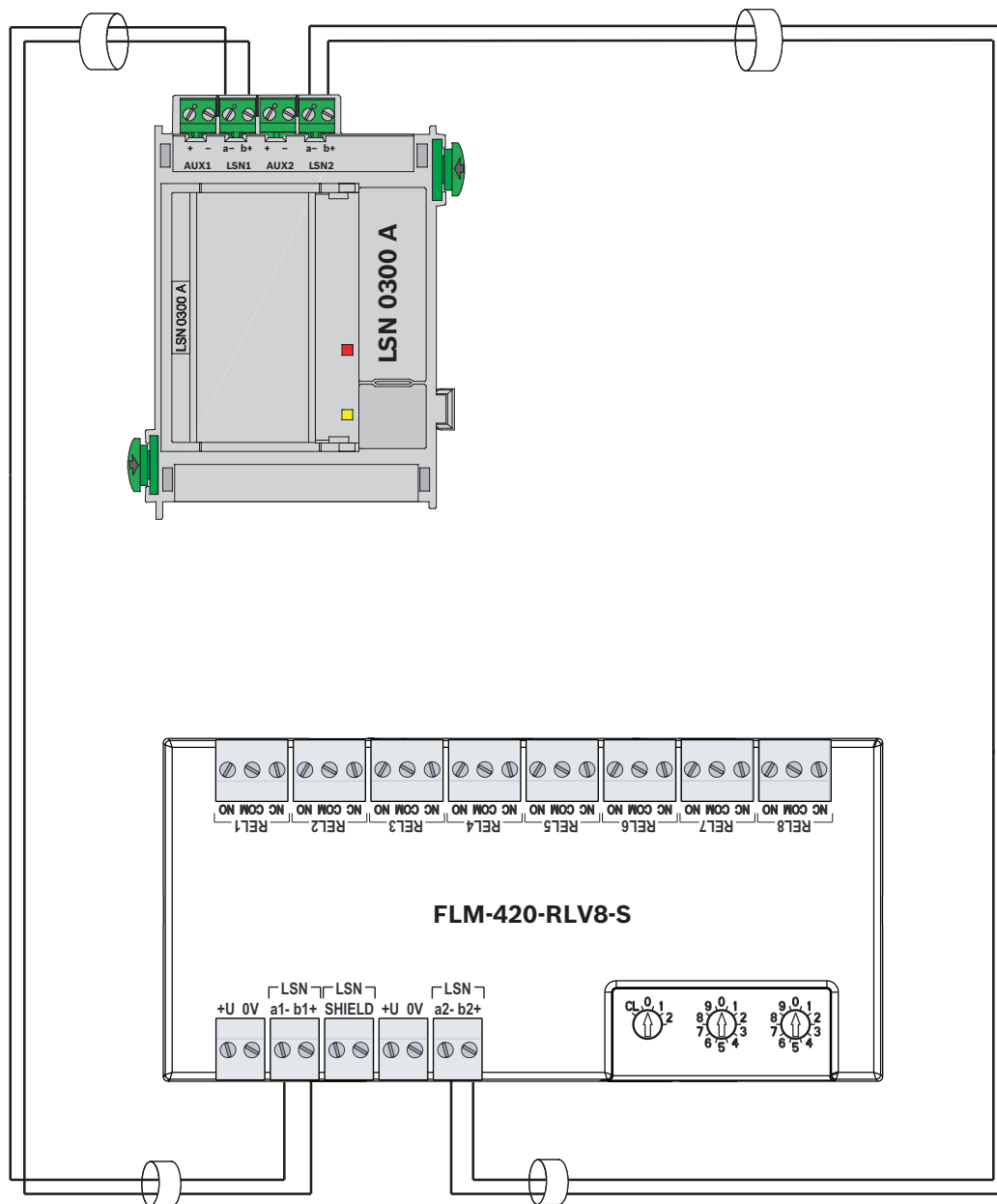
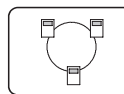


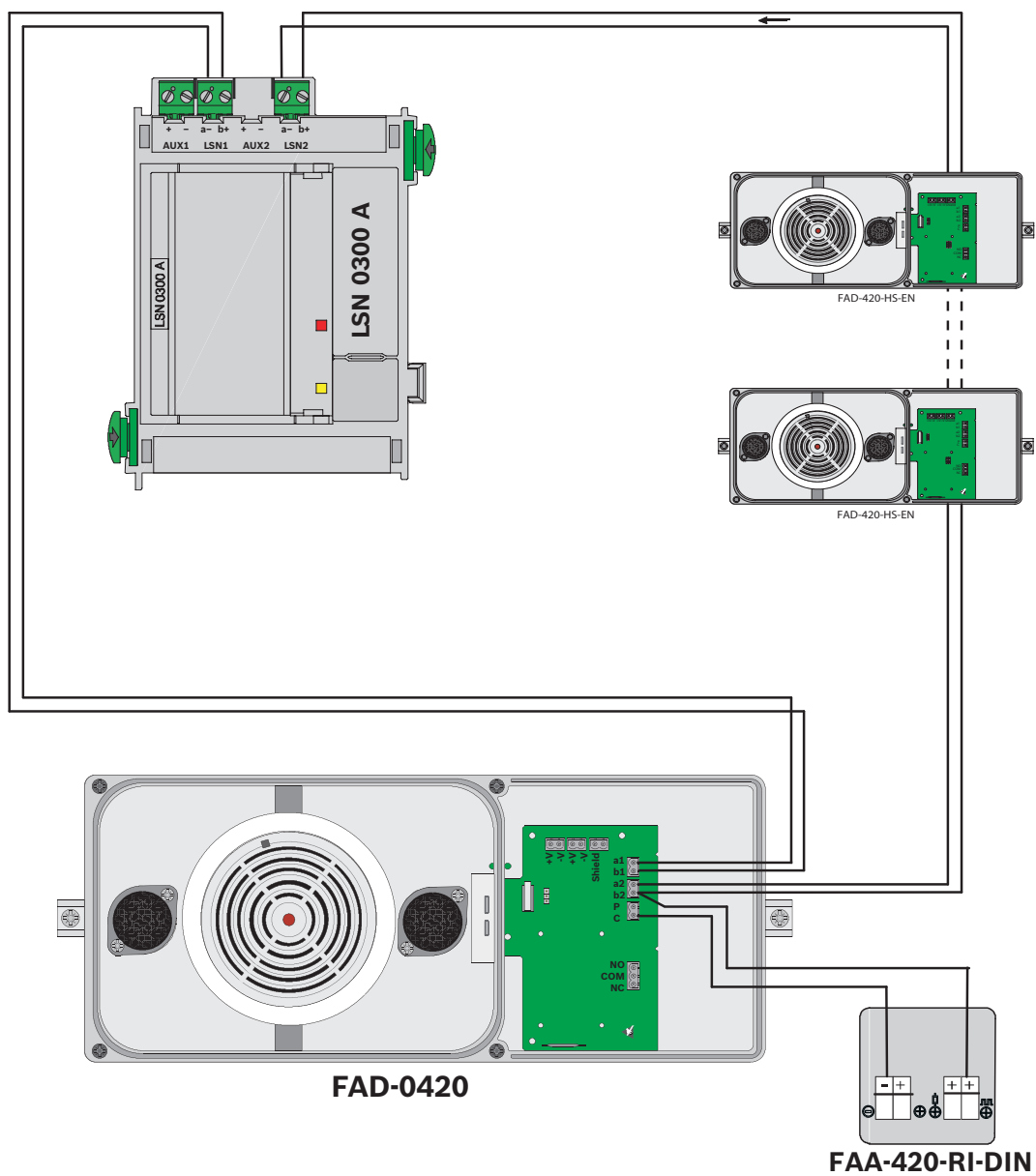
FLM-420-O1I1-D





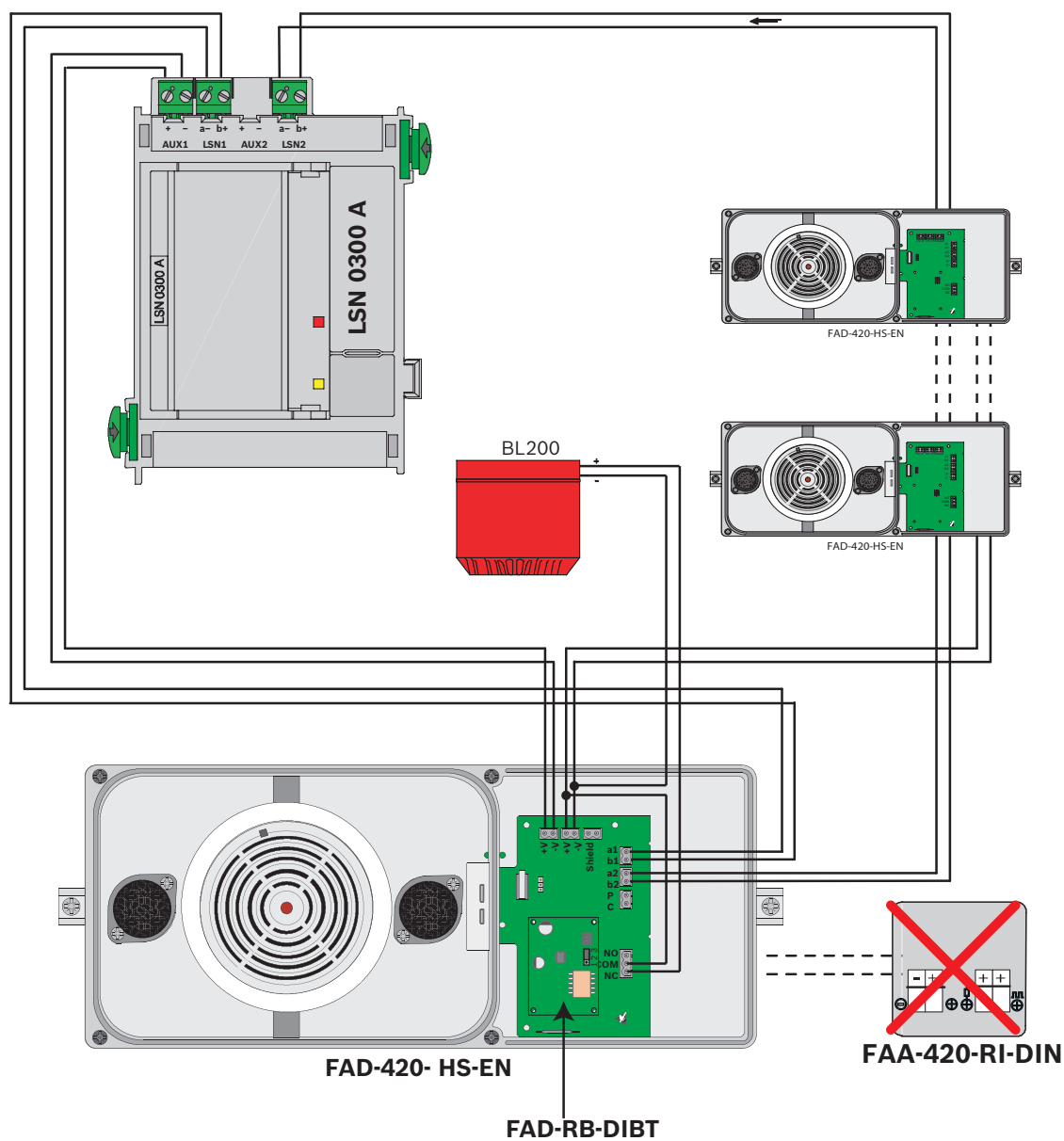
FLM-420-RLV8-S

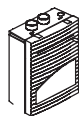


**FAD-0420**

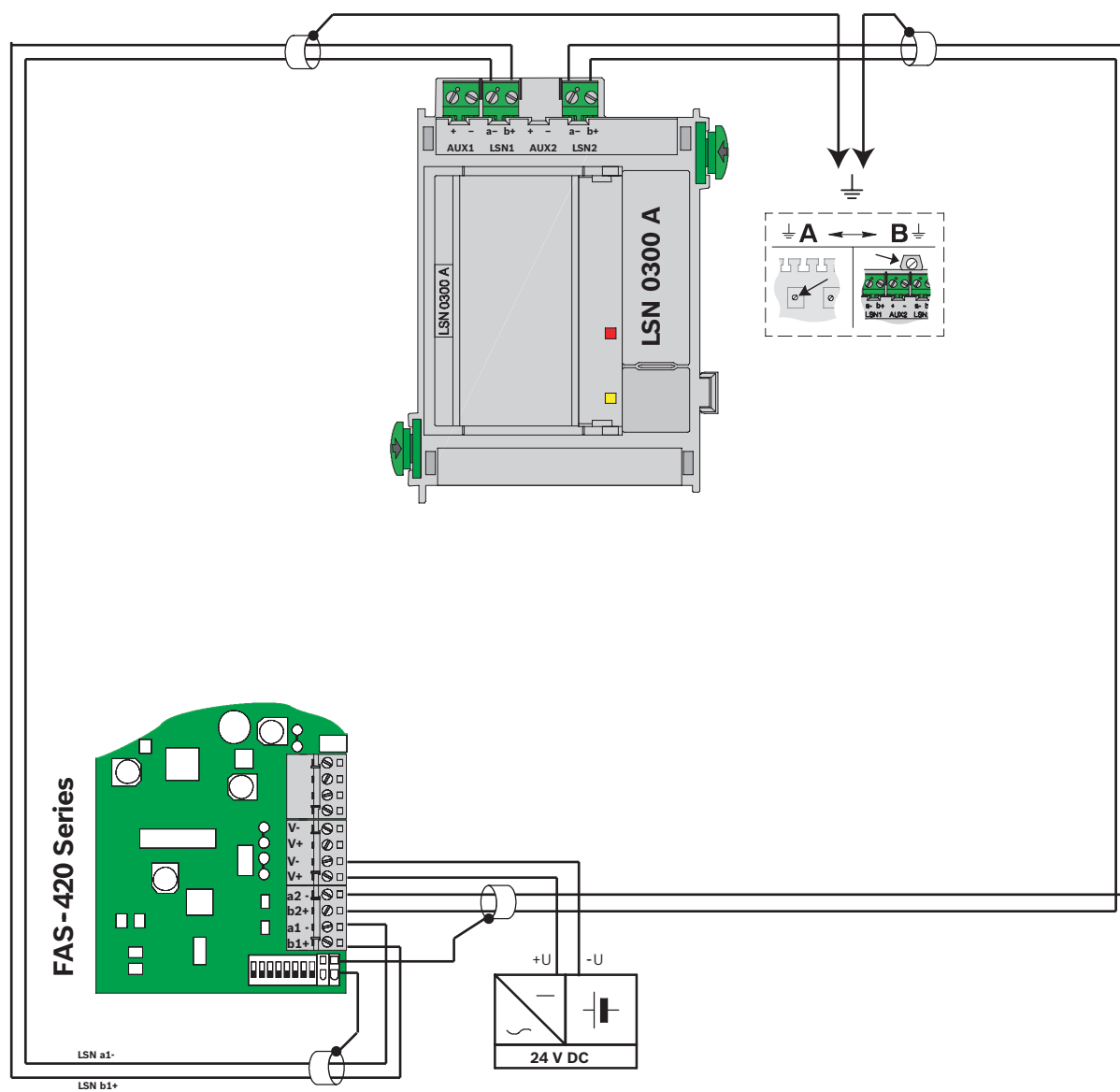


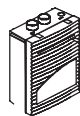
FAD-420-HS-EN



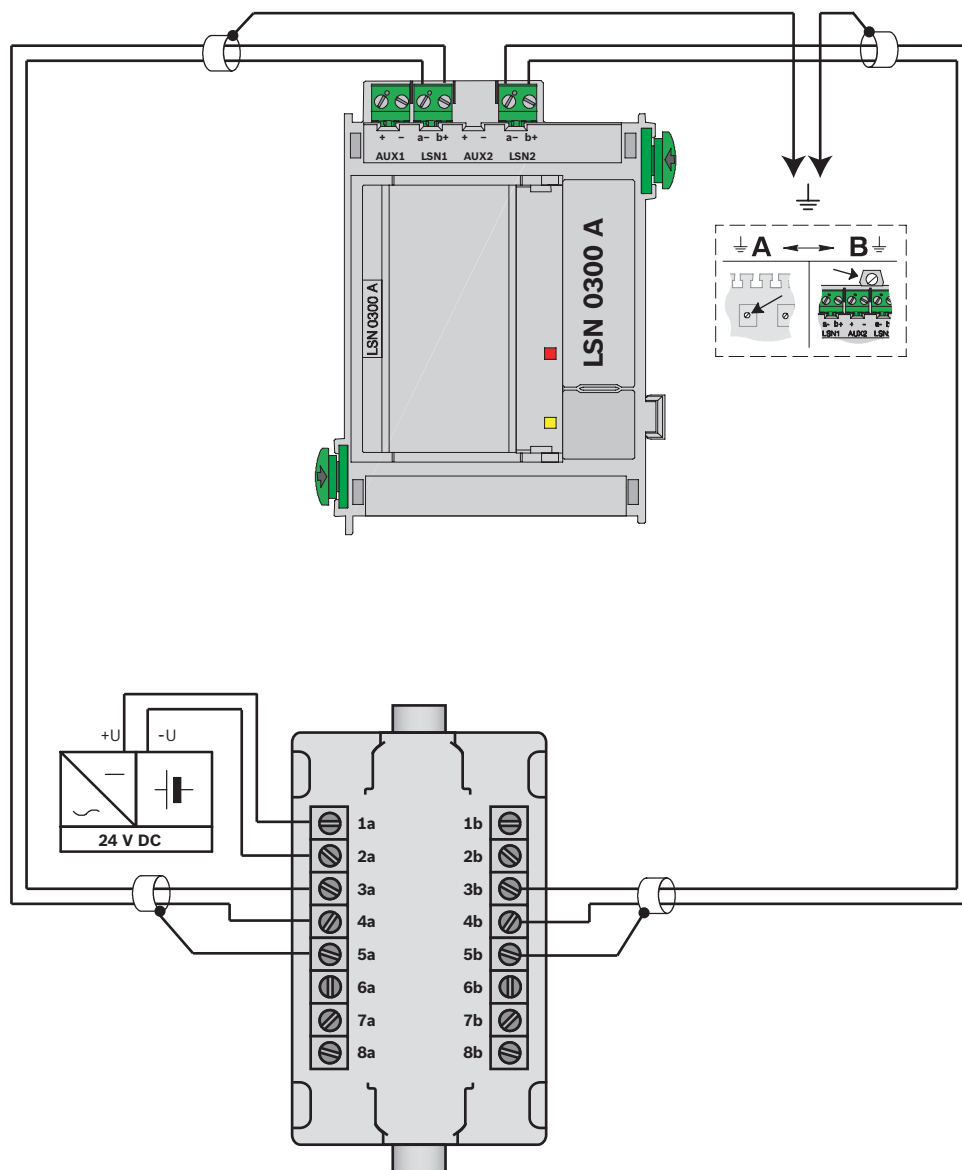


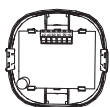
FAS-420 Series



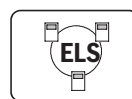


FAS-420-TM Series

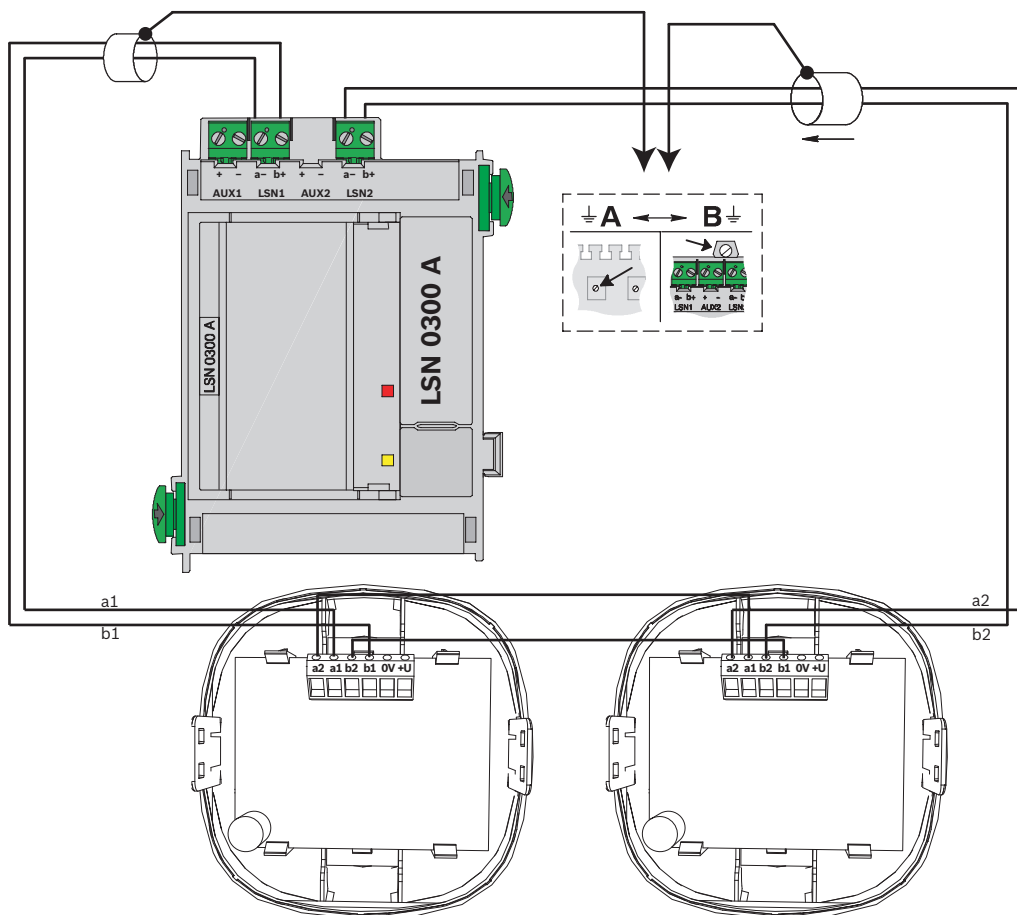




FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A



VdS 2489

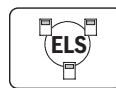


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

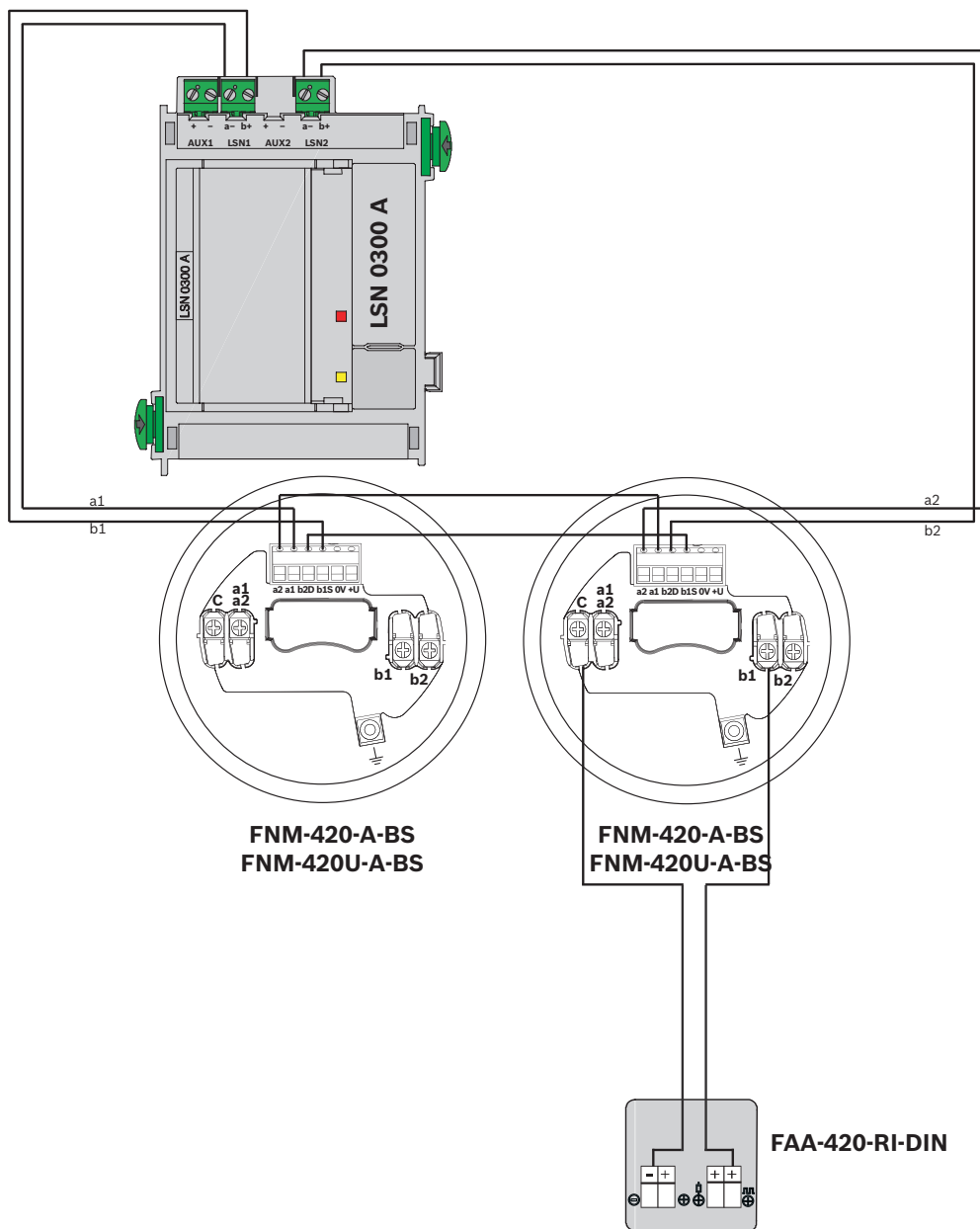
FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



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

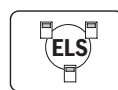


VdS 2489

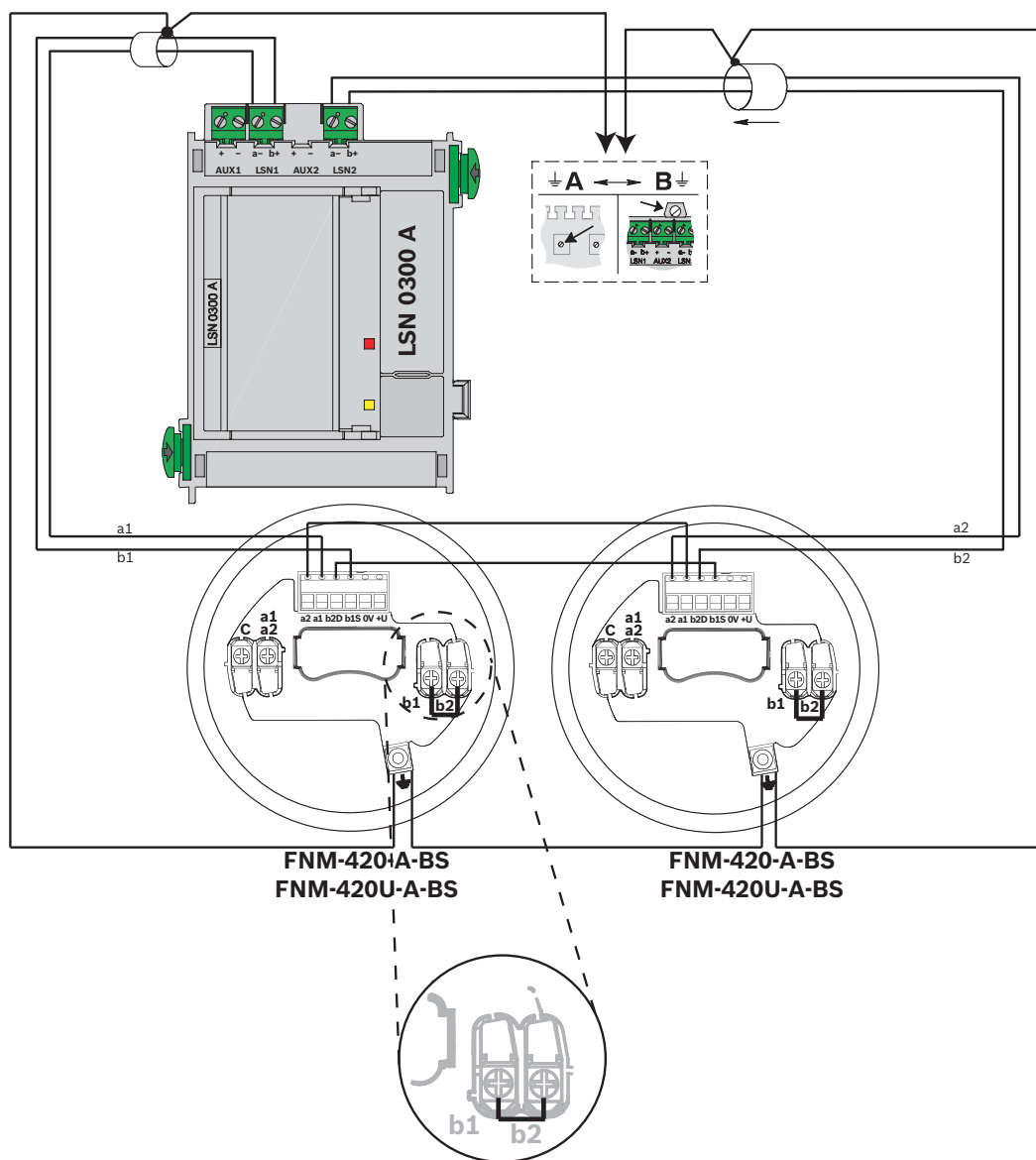




FNM-420-A-BS
FNM-420U-A-BS

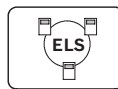


VdS 2489

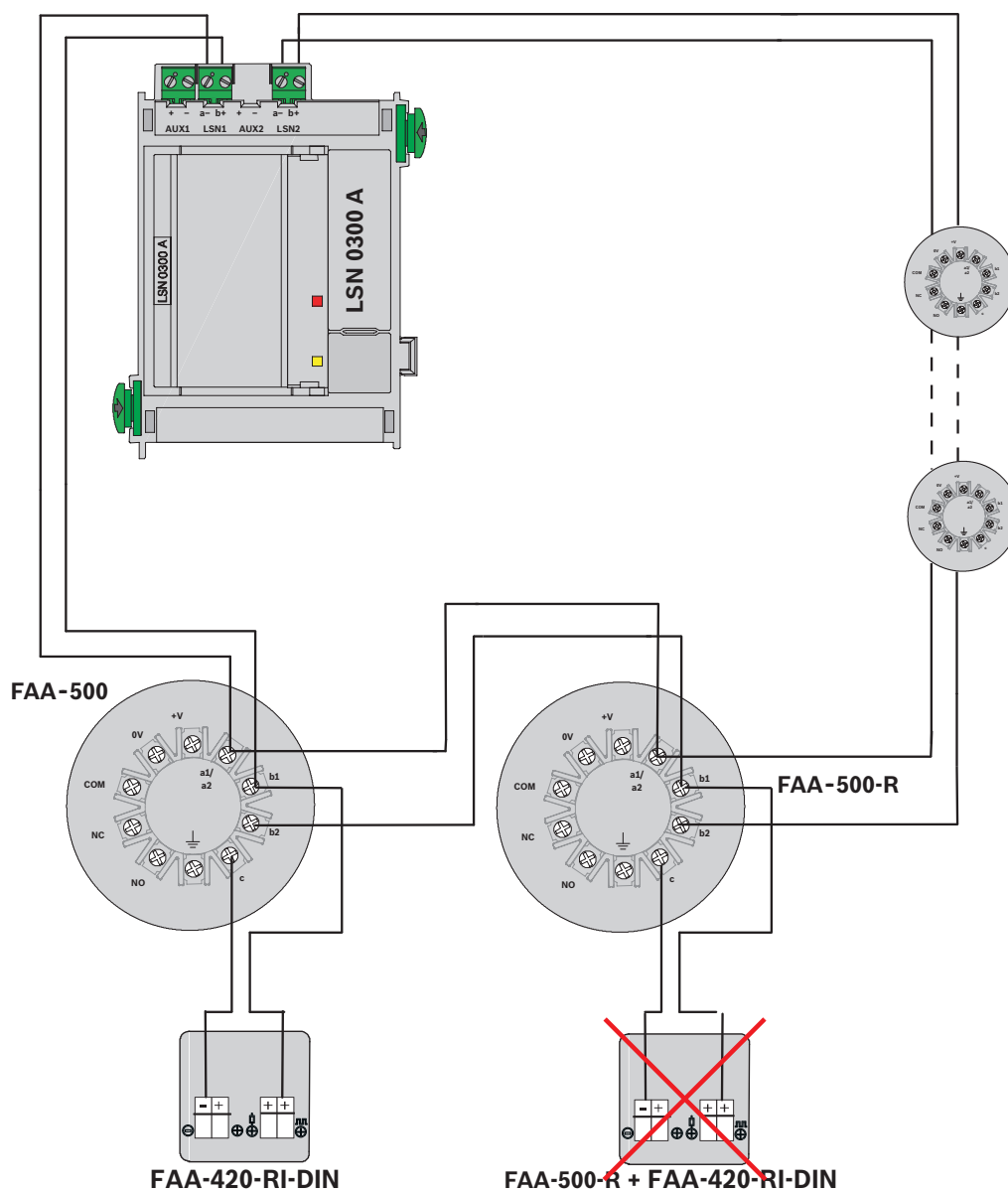


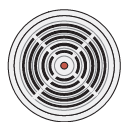


FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

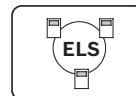


VdS 2489

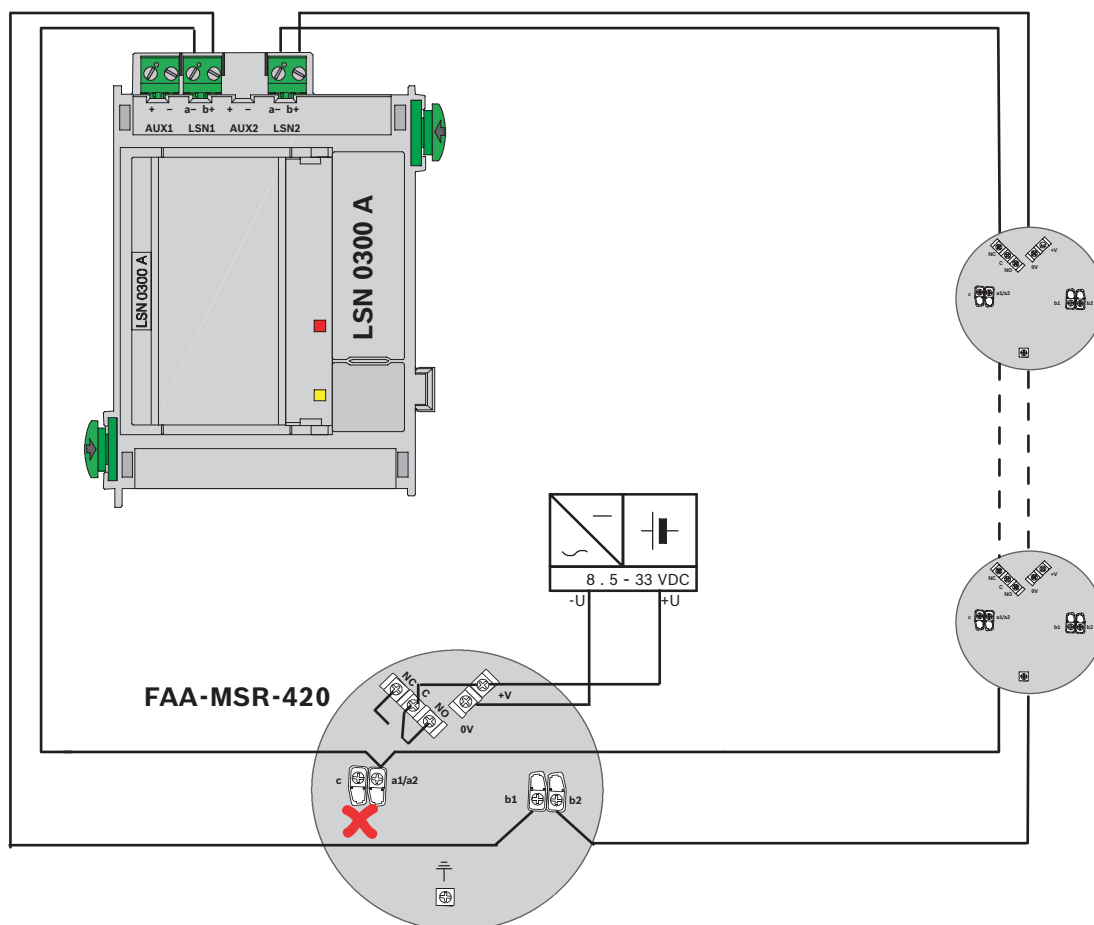




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/-DOT-R/-DOTC-R

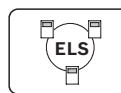


VdS 2489

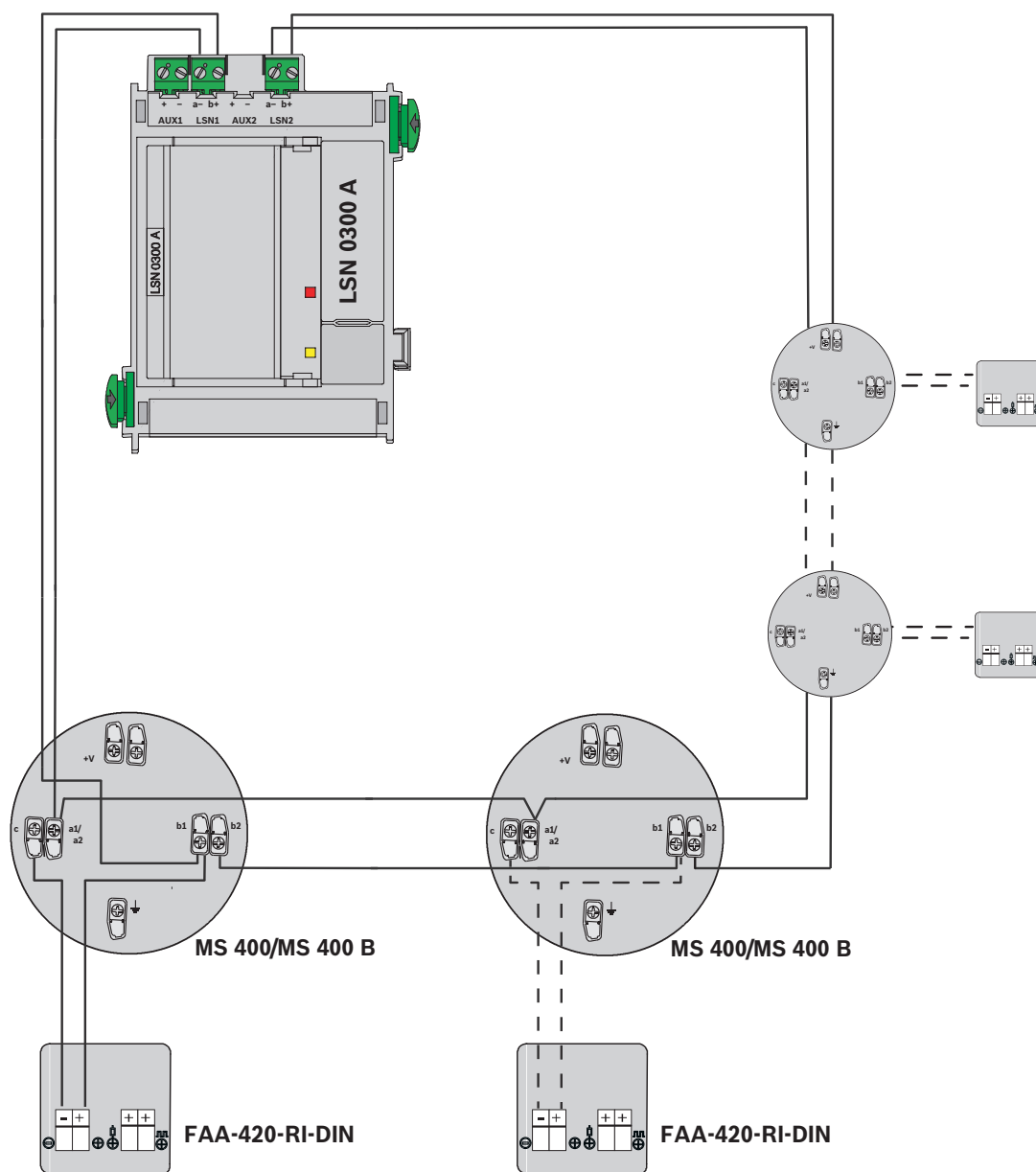


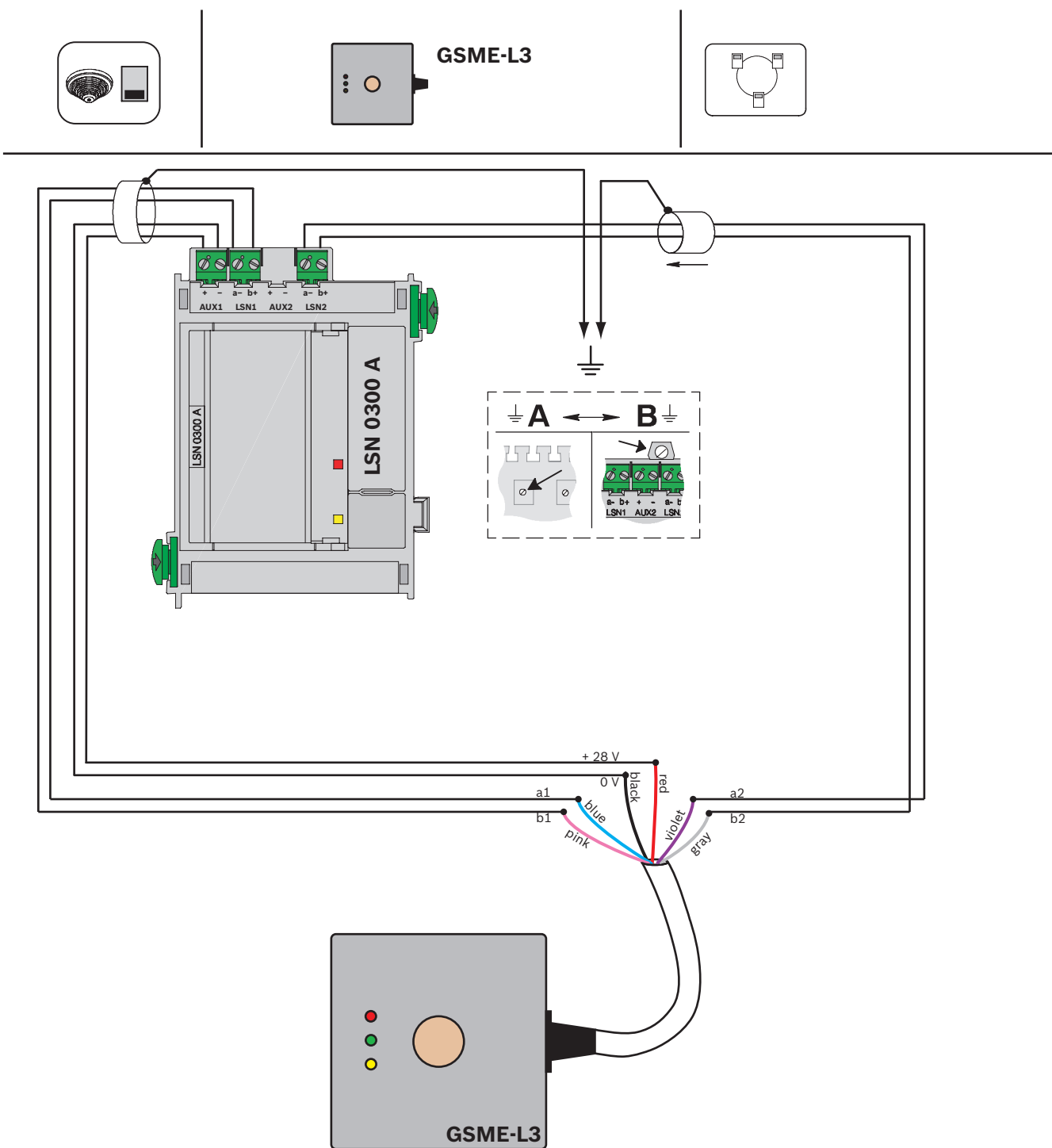


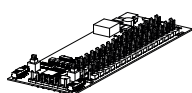
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 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



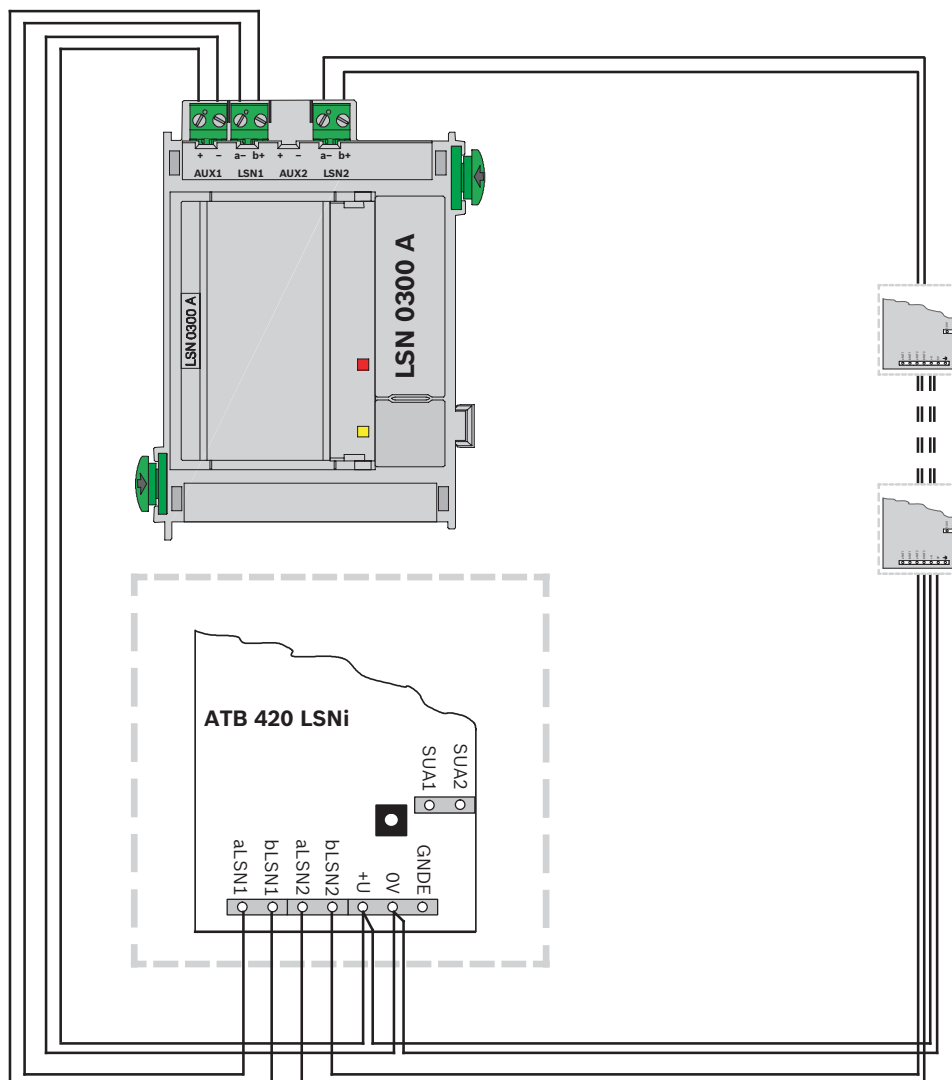
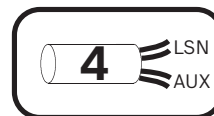
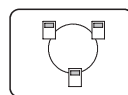
VdS 2489





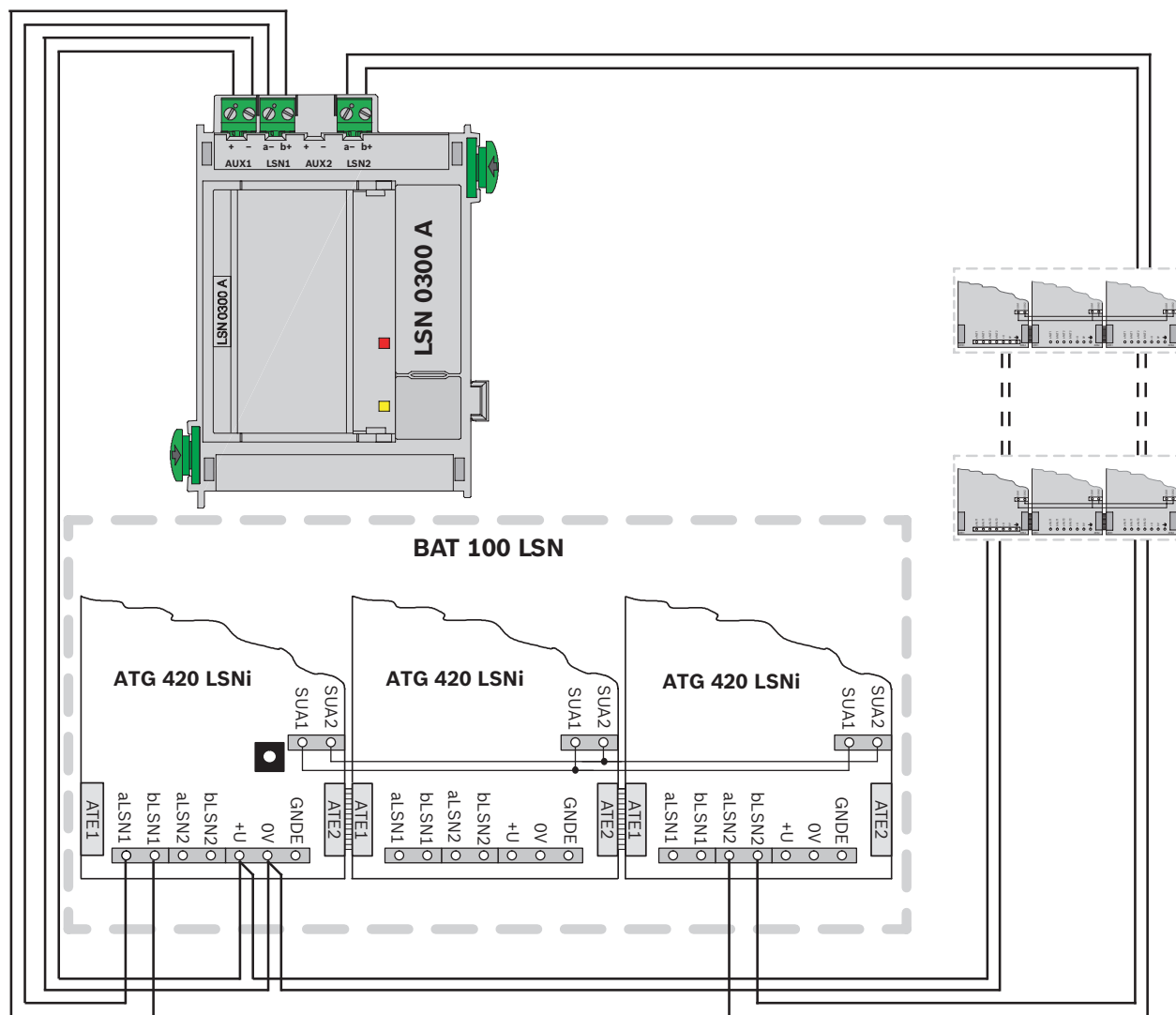
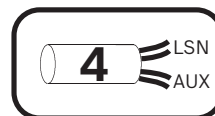
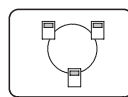


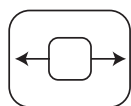
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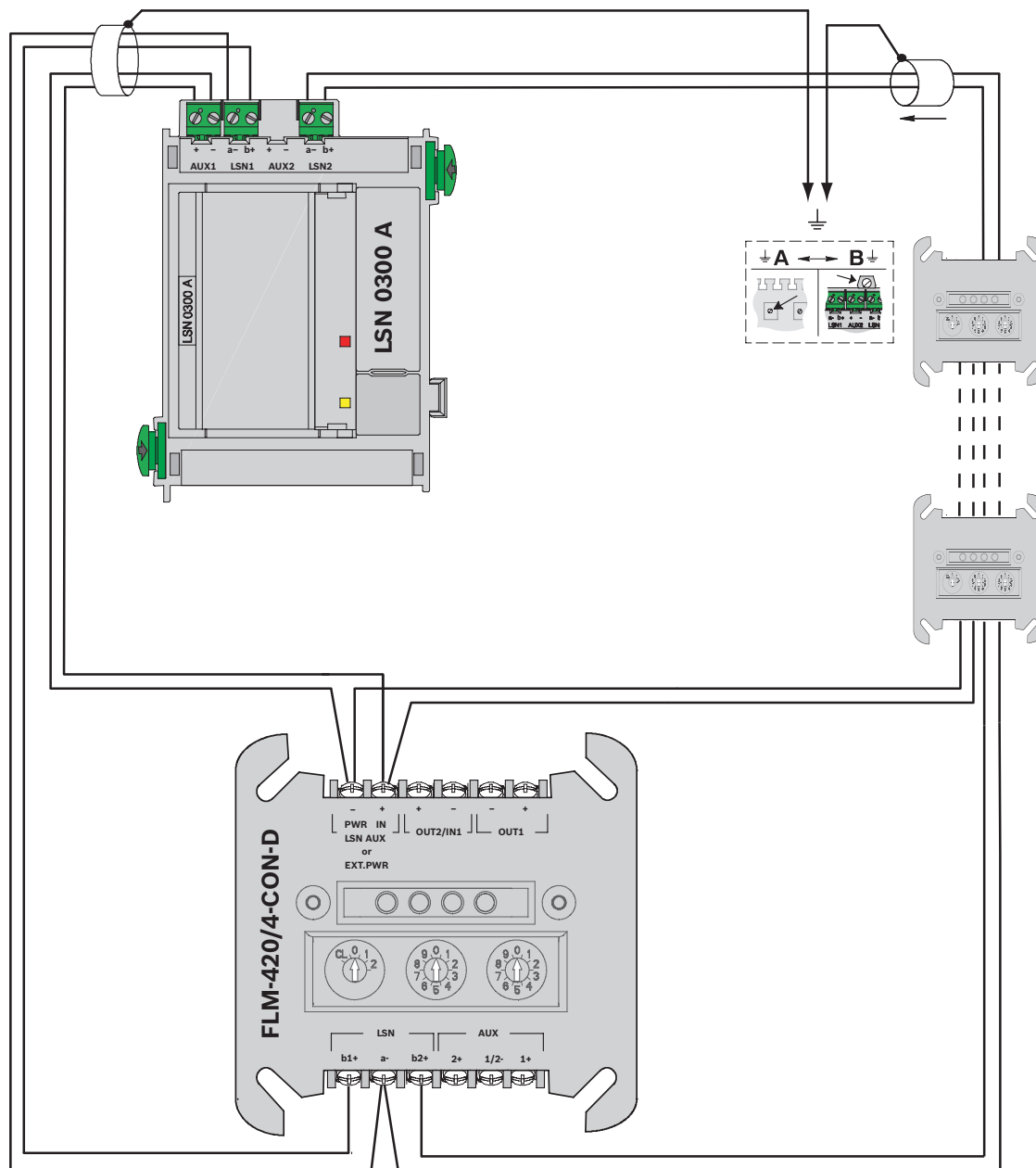
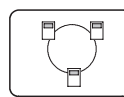


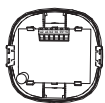
BAT 100 LSN
ATG 420 LSNi



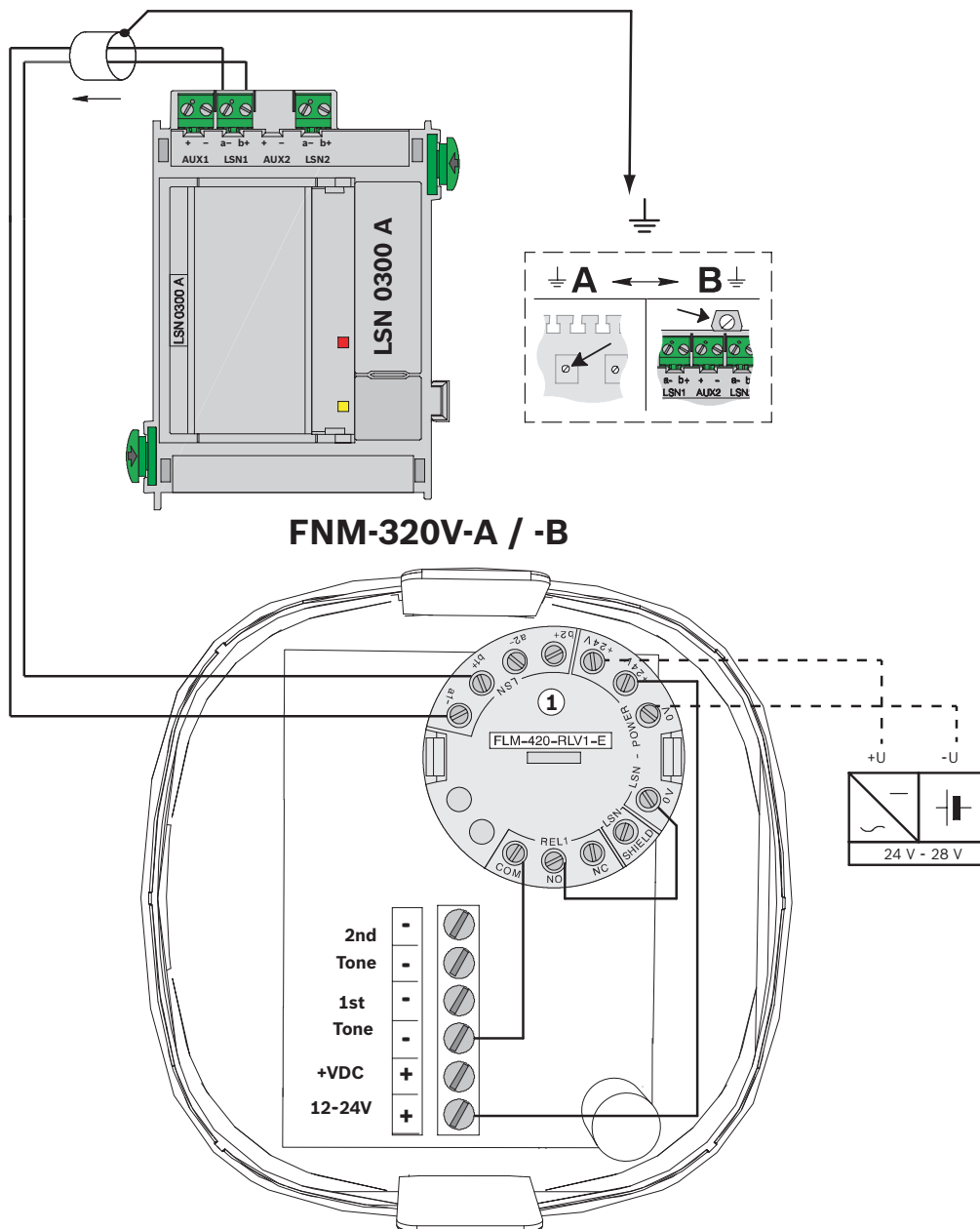
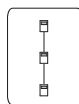


**FLM-420/
4-CON-D**



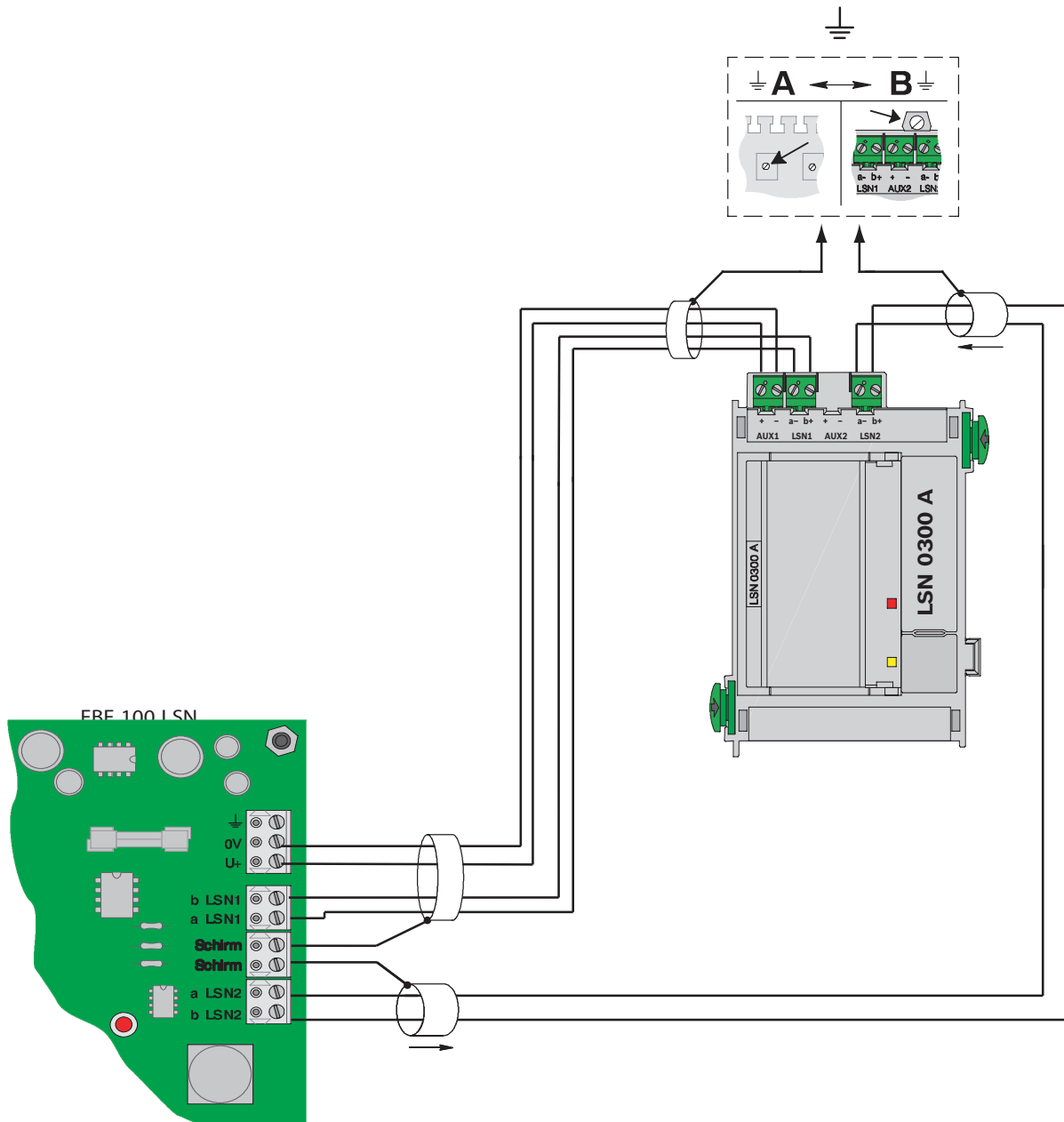
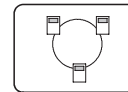


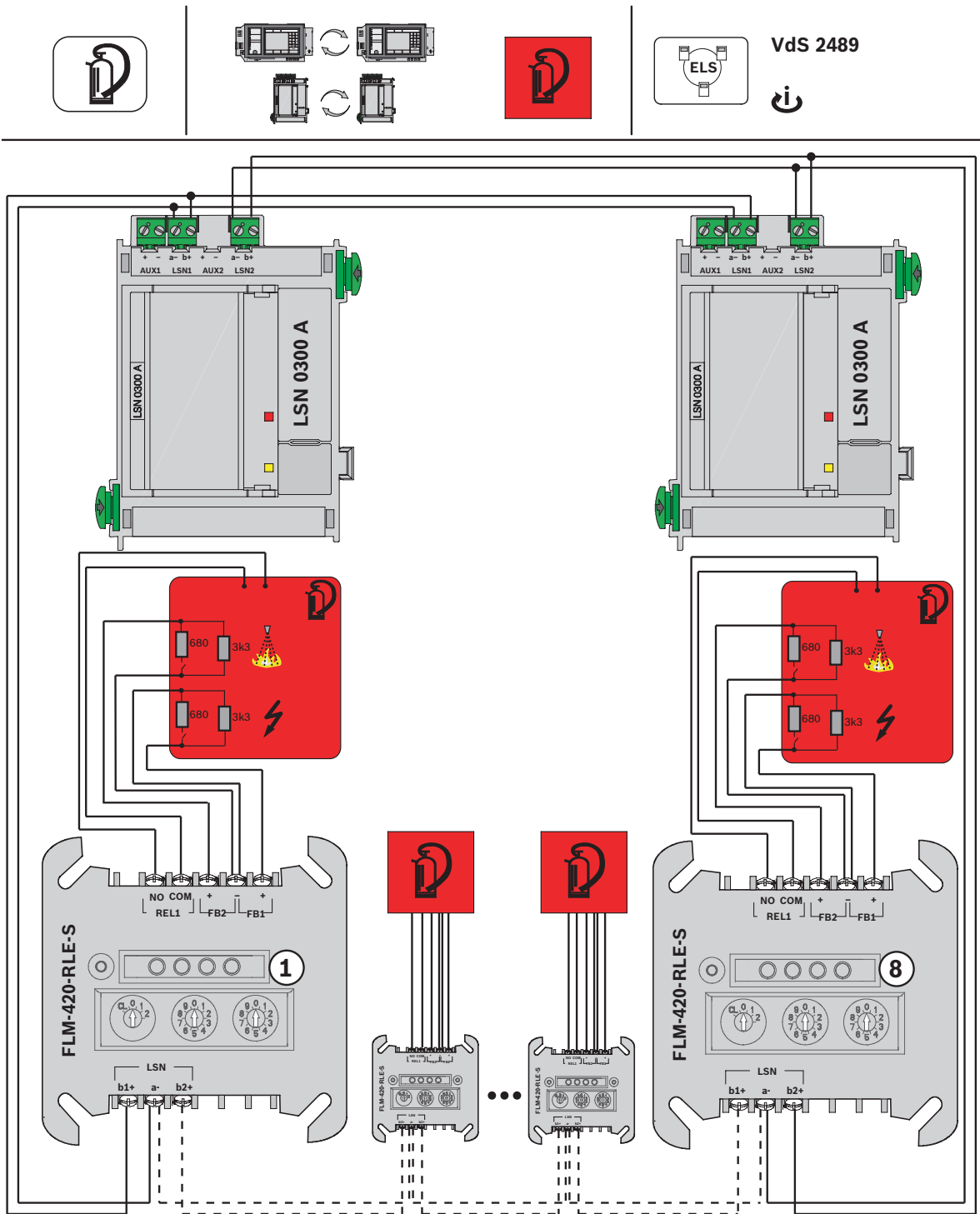
FNM-320V-A / -B

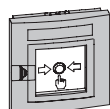
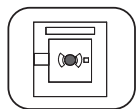




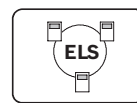
FBF 100 LSN



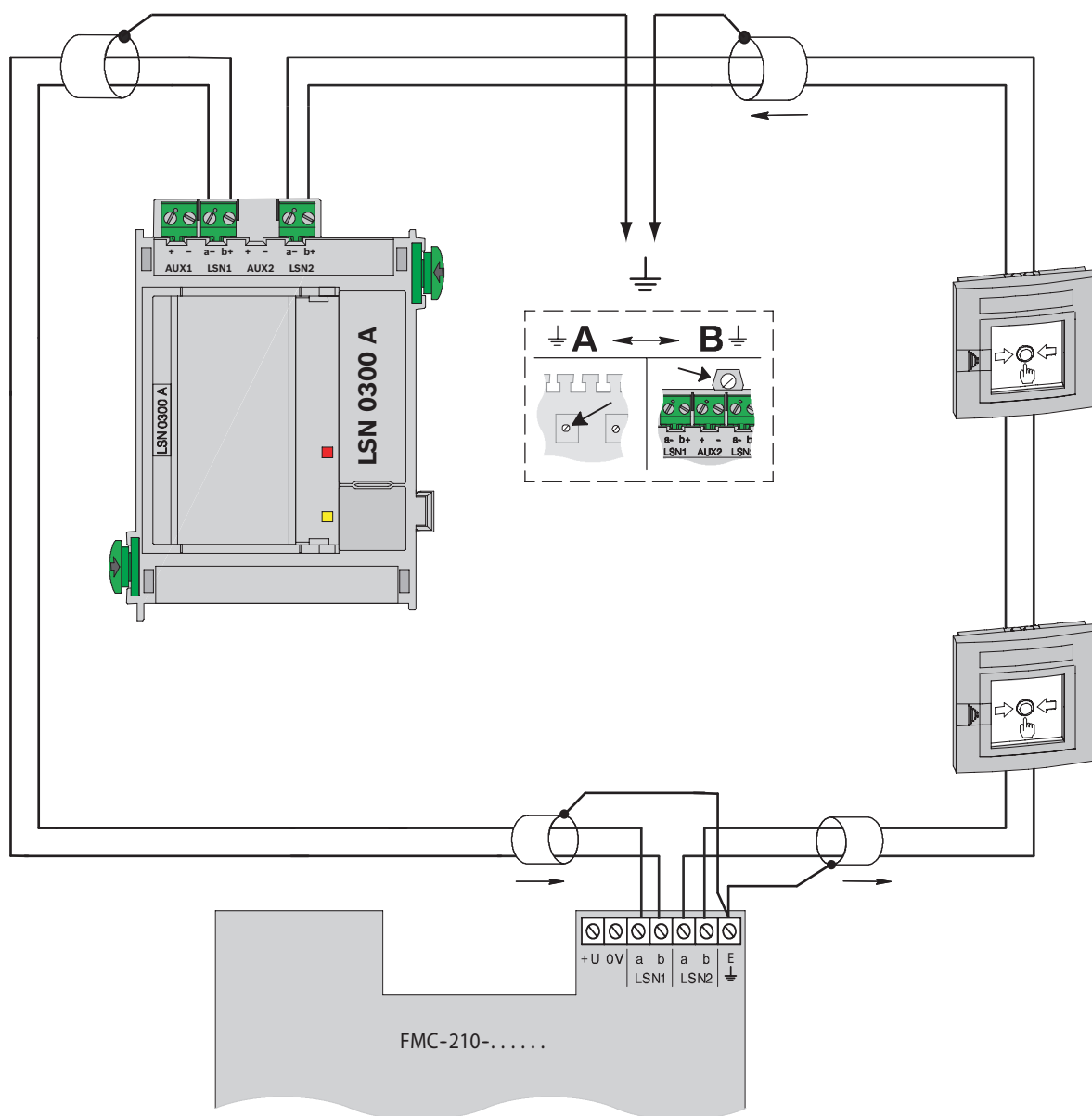


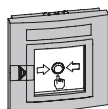
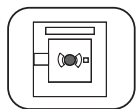


FMC-210-...

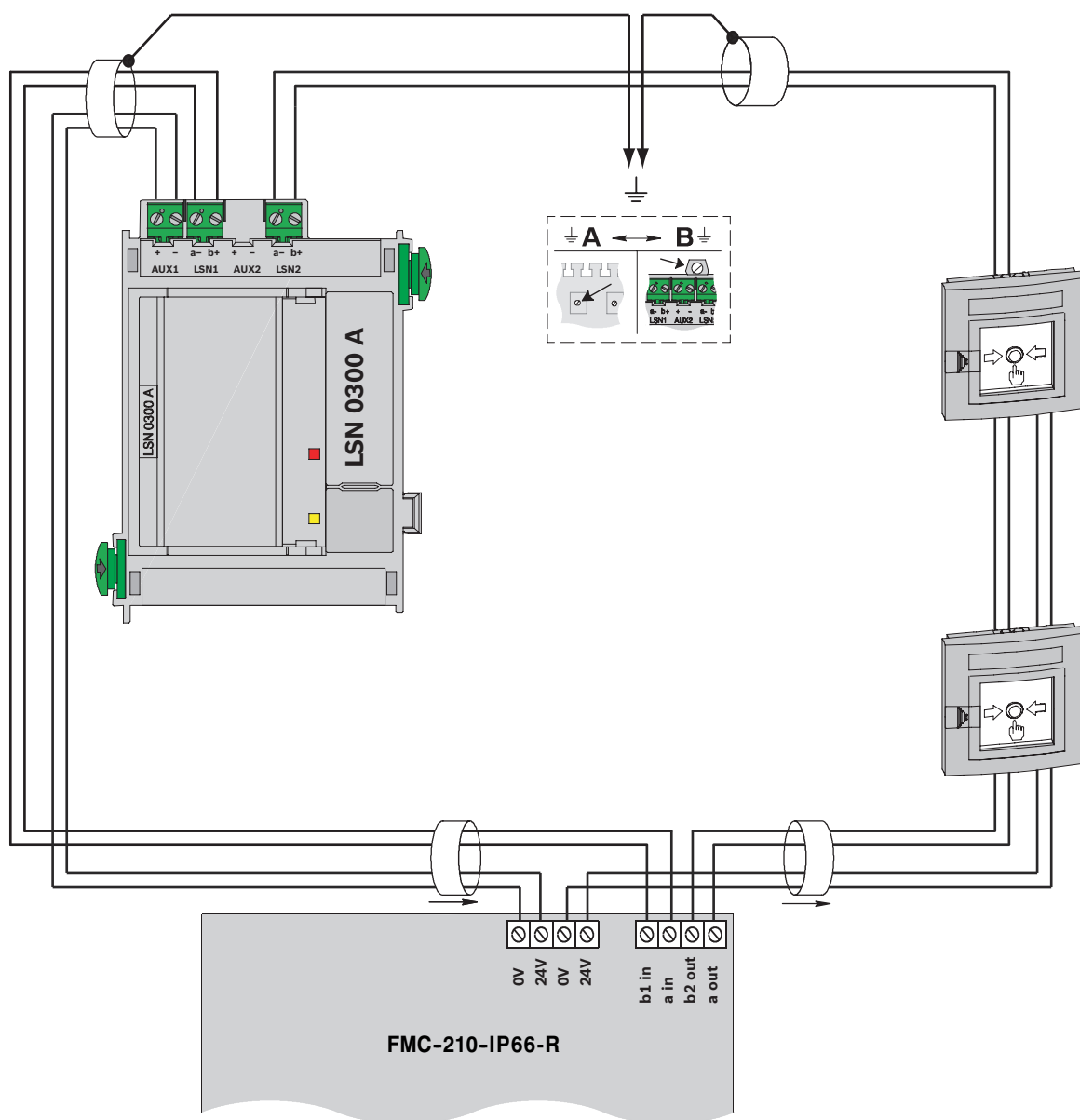
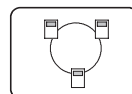


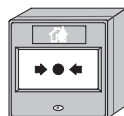
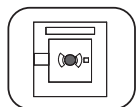
VdS 2489



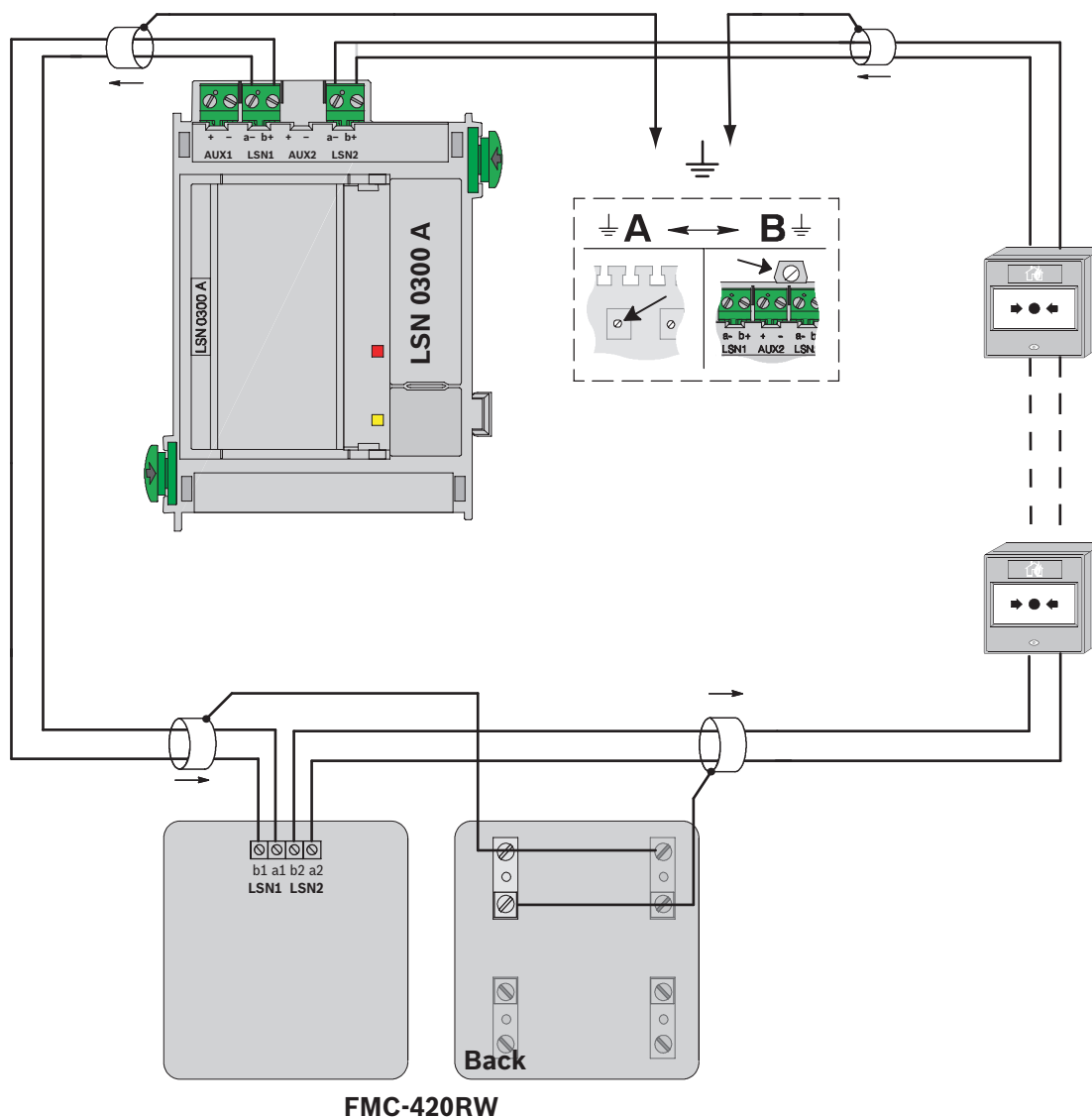
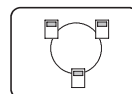


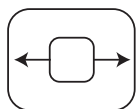
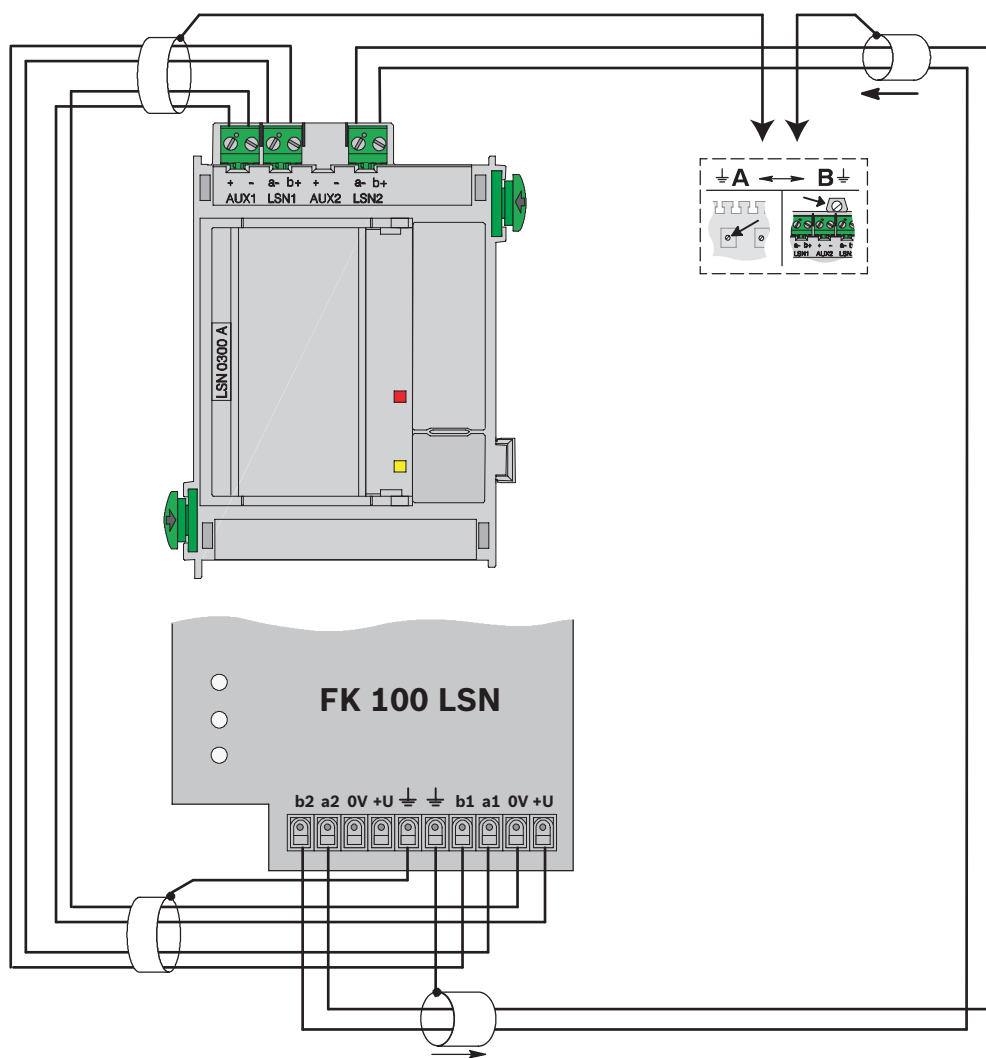
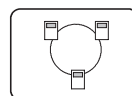
FMC-210-IP66-R





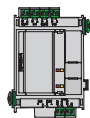
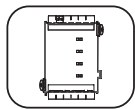
FMC-420RW-HSGRD
FMC-420RW-HSRRD
FMC-420RW-GFGRD
FMC-420RW-GFRRD
FMC-420RW-GSGRD
FMC-420RW-GSRRD



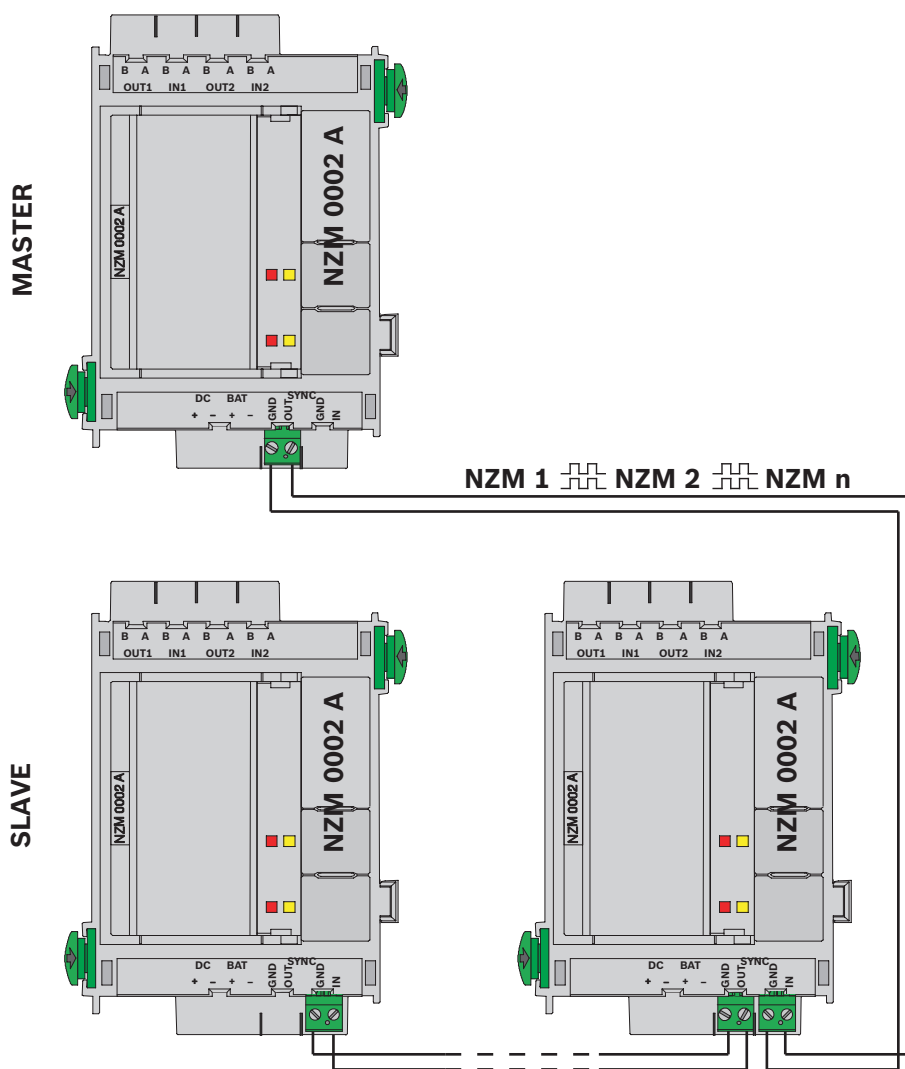
**FK 100 LSN**

3.3.5

NZM 0002 A

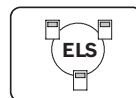
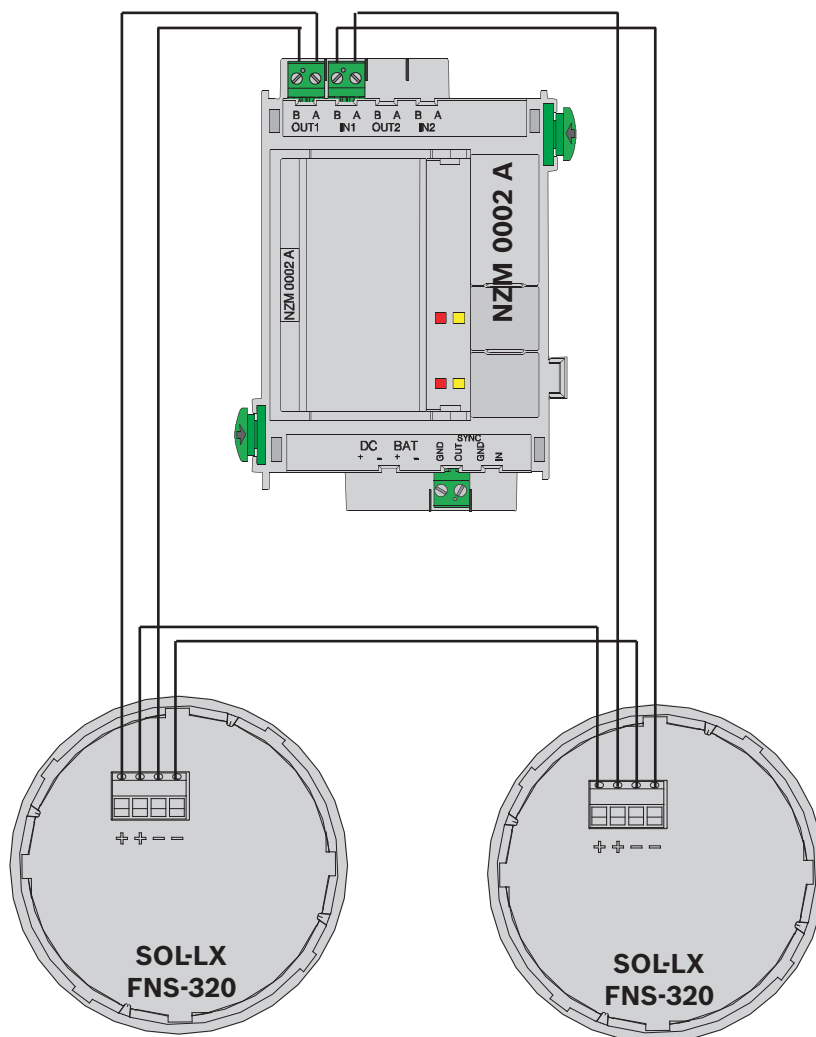


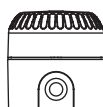
NZM 0002 A



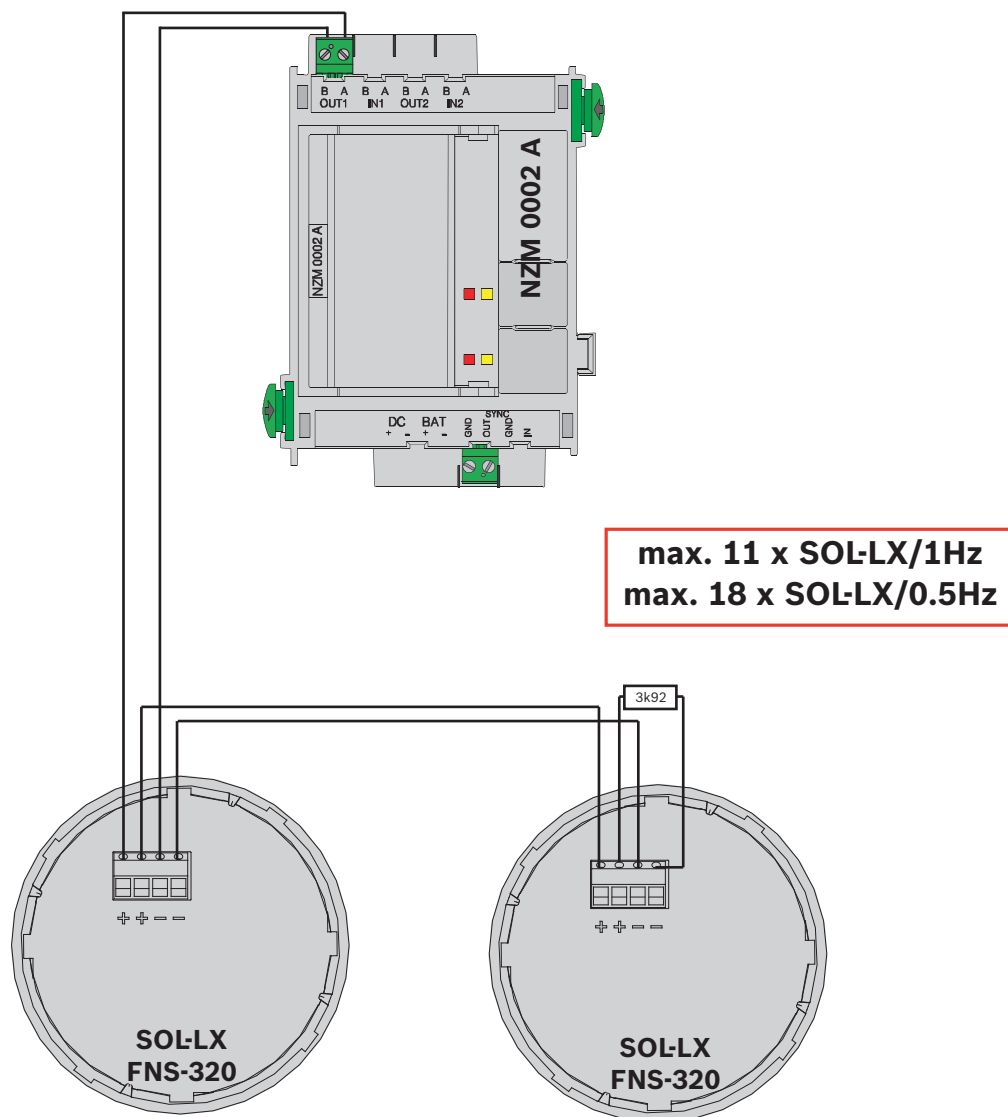
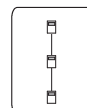


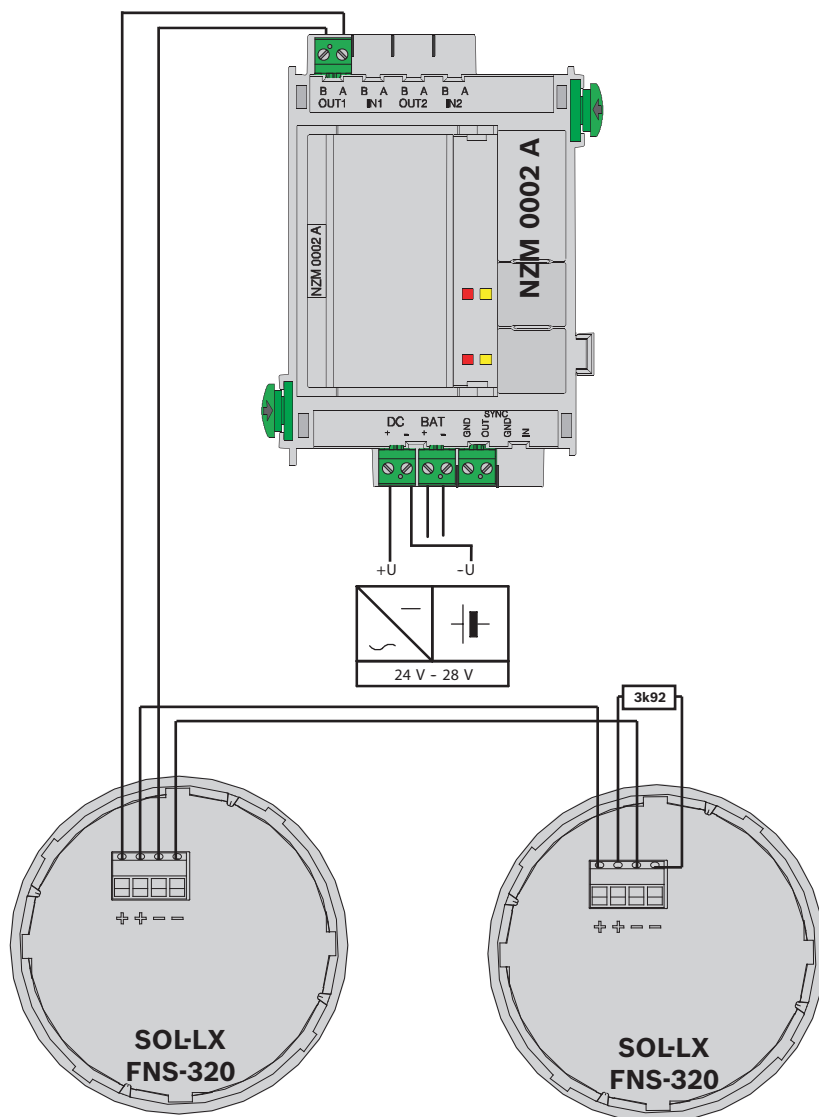
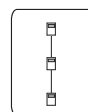
**SOL-LX
FNS-320**

**VdS 2489**



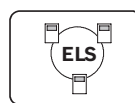
**SOL-LX
FNS-320**



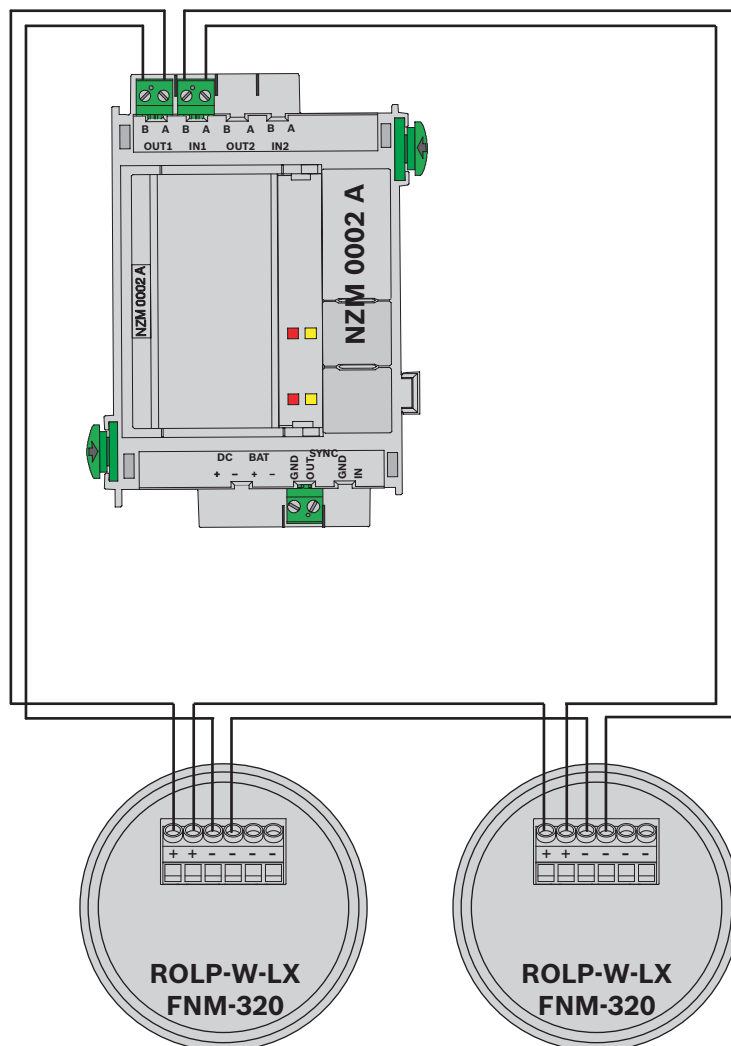
**SOL-LX
FNS-320**



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

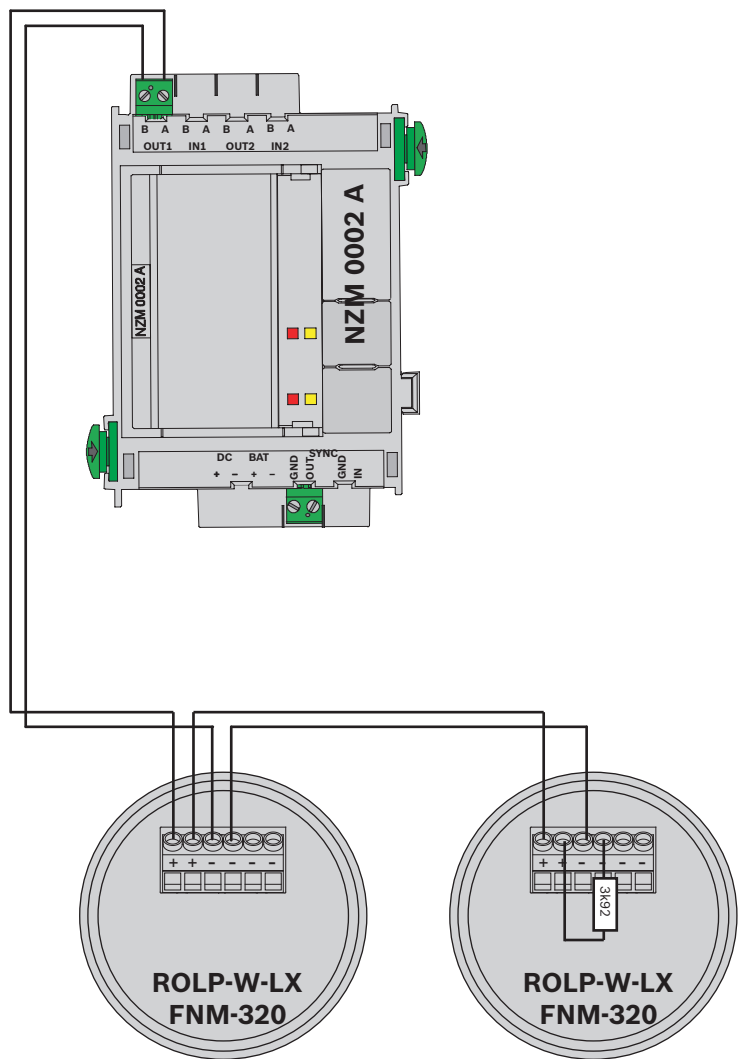
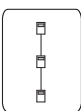


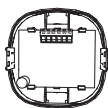
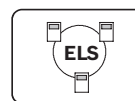
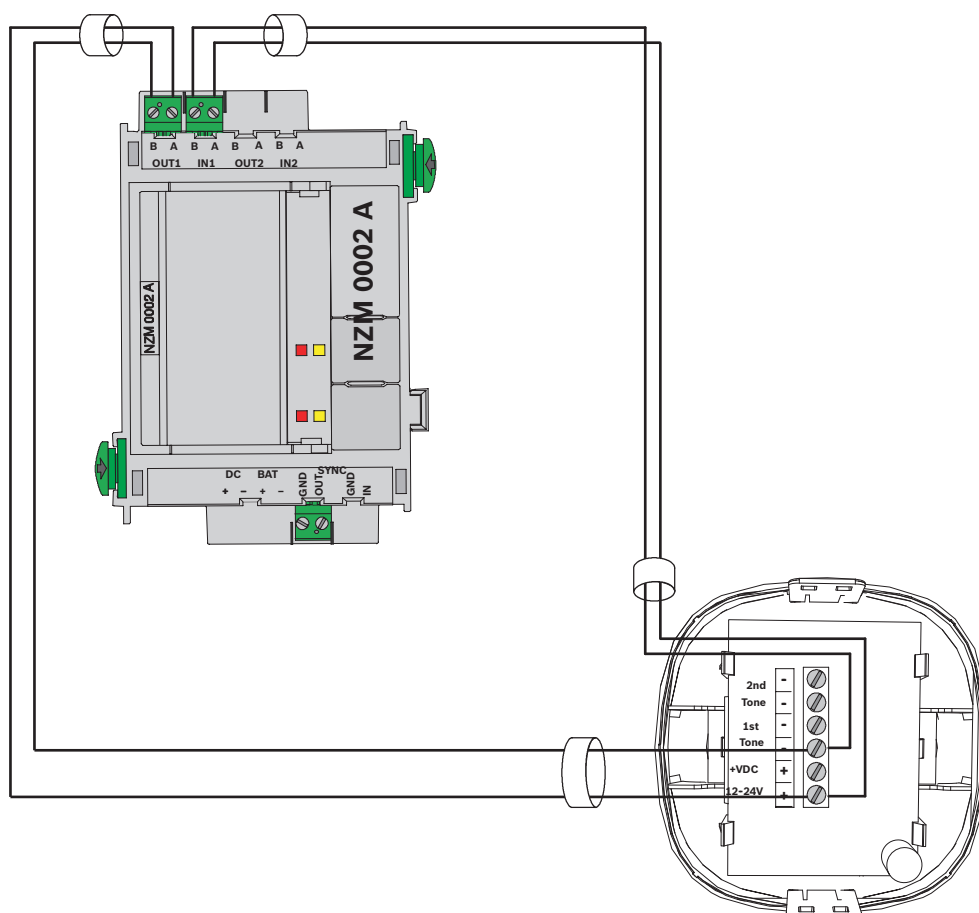
VdS 2489

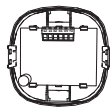




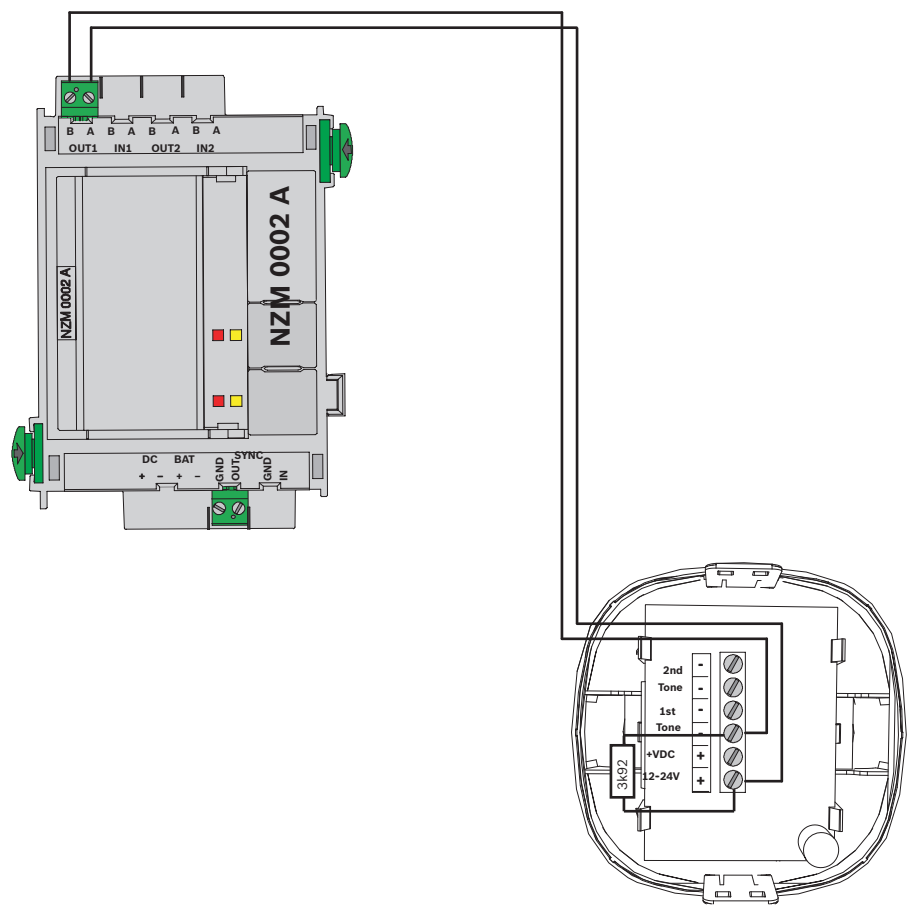
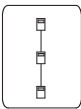
**ROLP-W-LX
FNM-320**

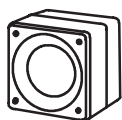


**FNM-320V-A / -B****VdS 2489**

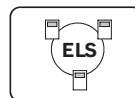


FNM-320V-A / -B

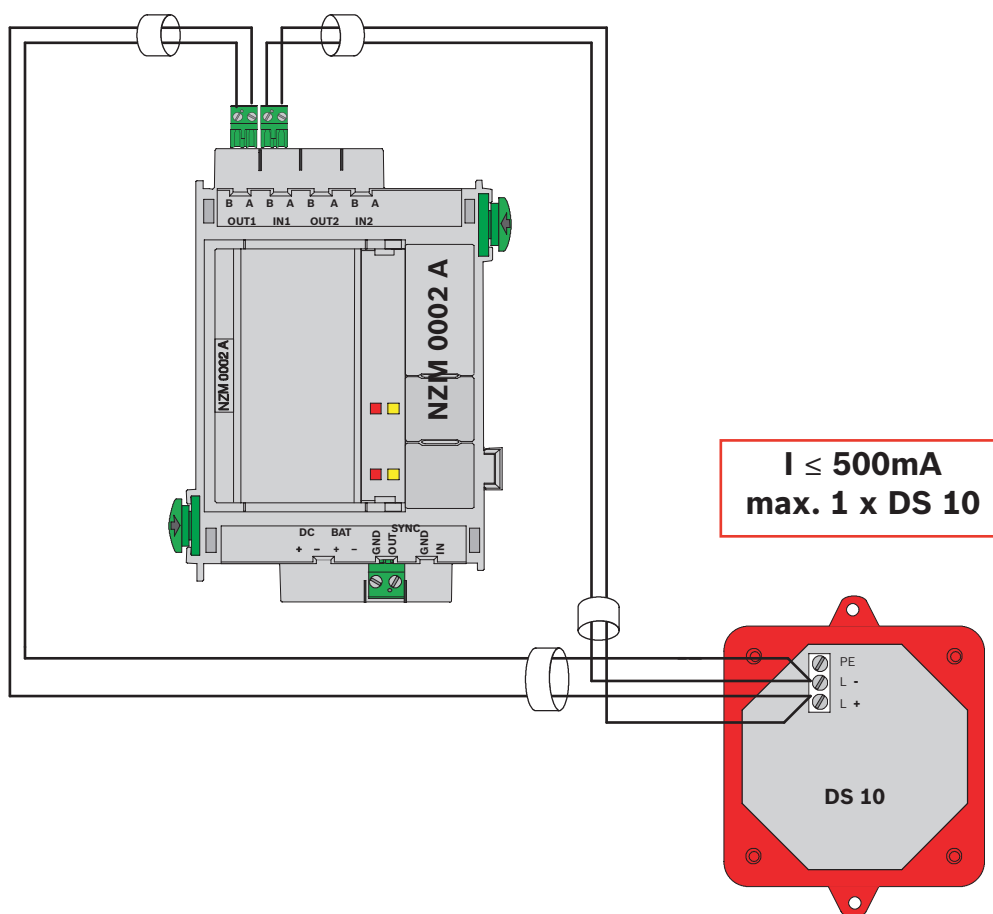




DS 10

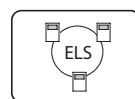


VdS 2489

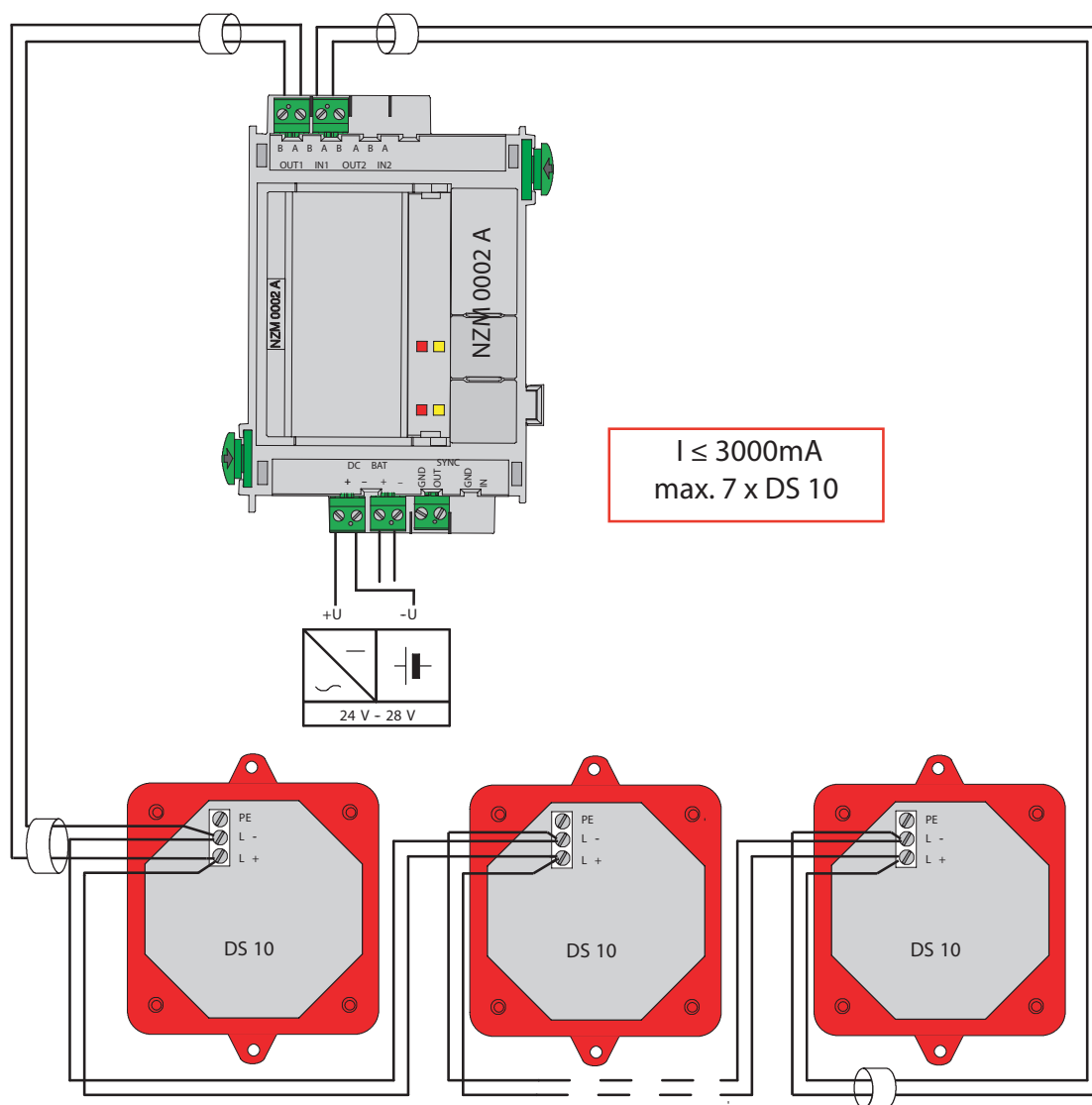


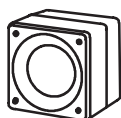
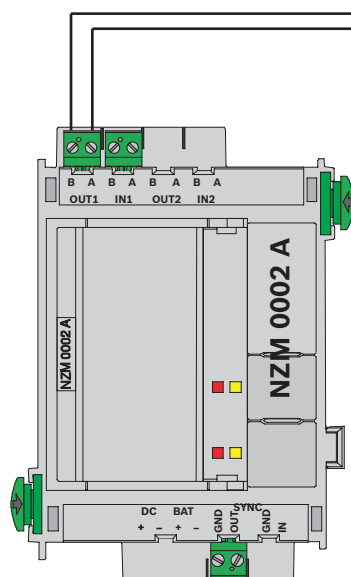
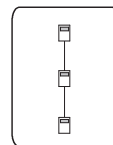


DS 10

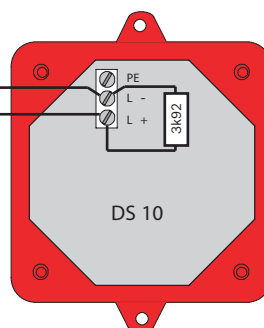


VdS 2489



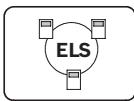
**DS 10**

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

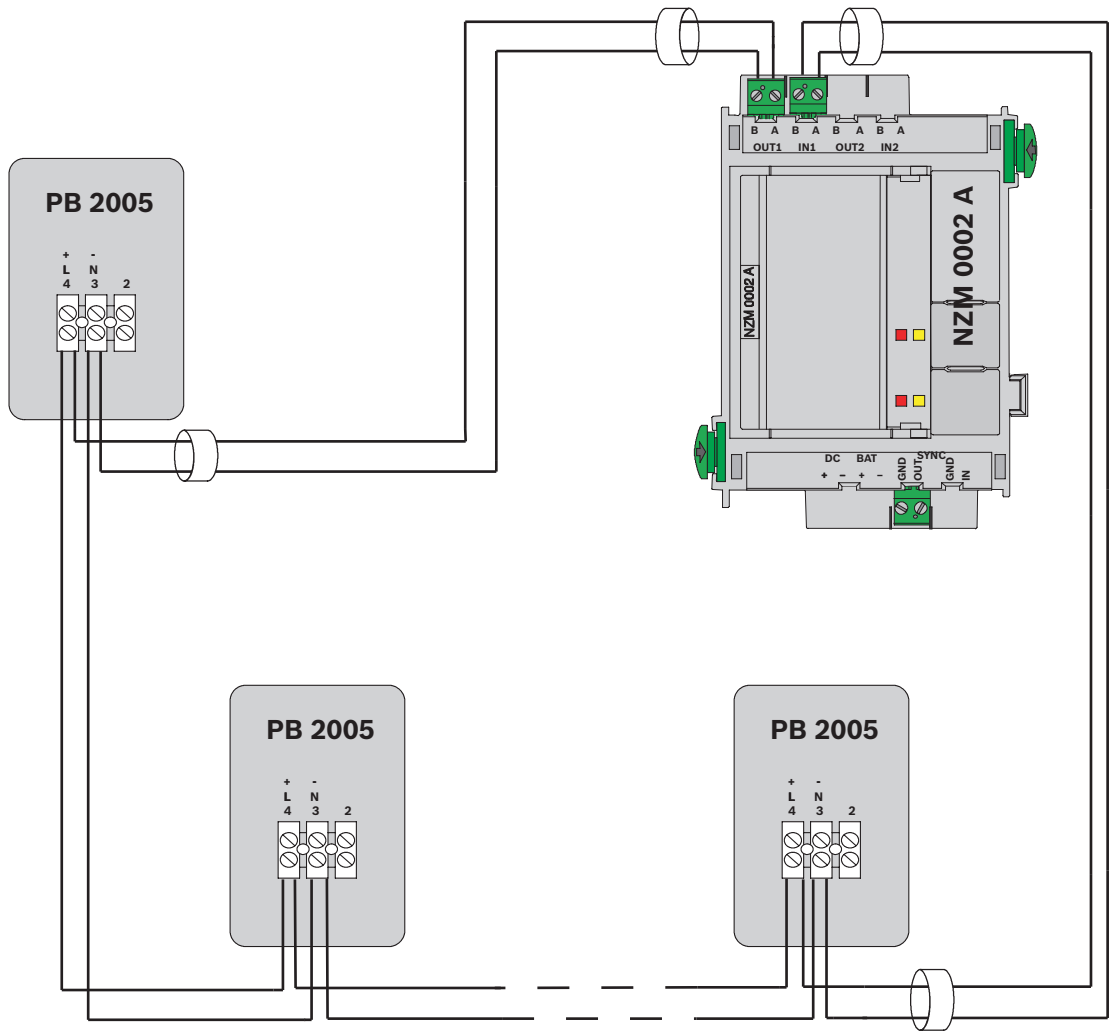


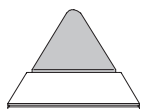


PB 2005

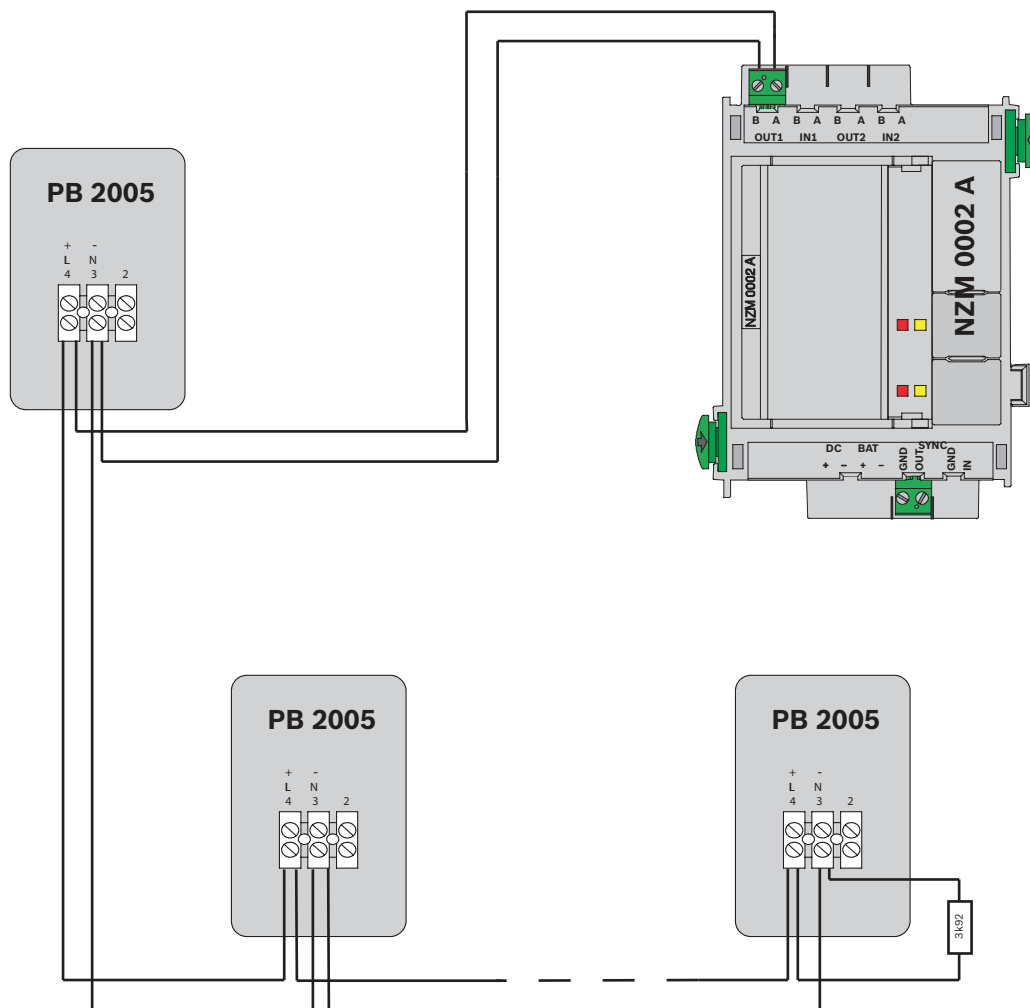
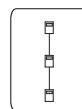


VdS 2489



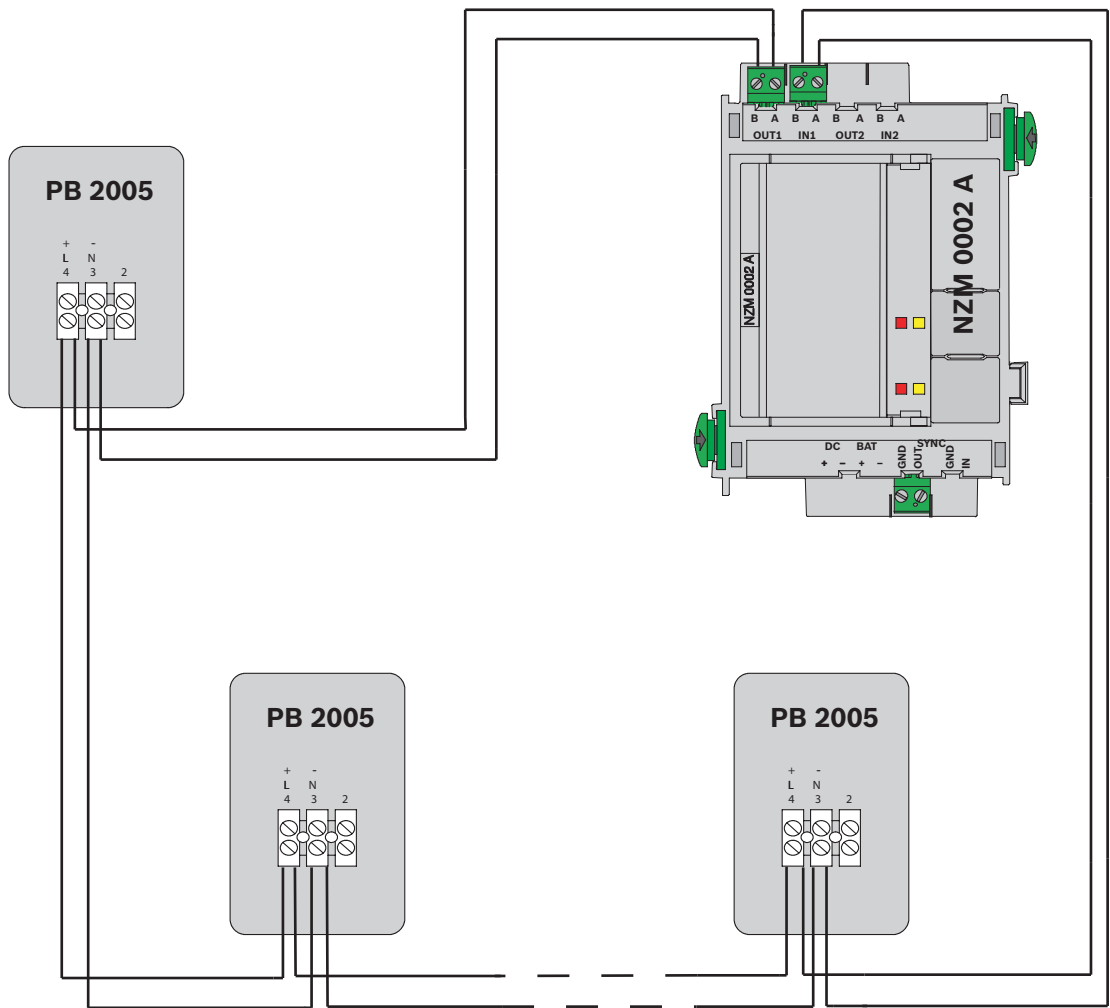
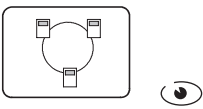


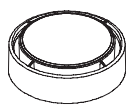
PB 2005



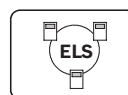


PB 2005

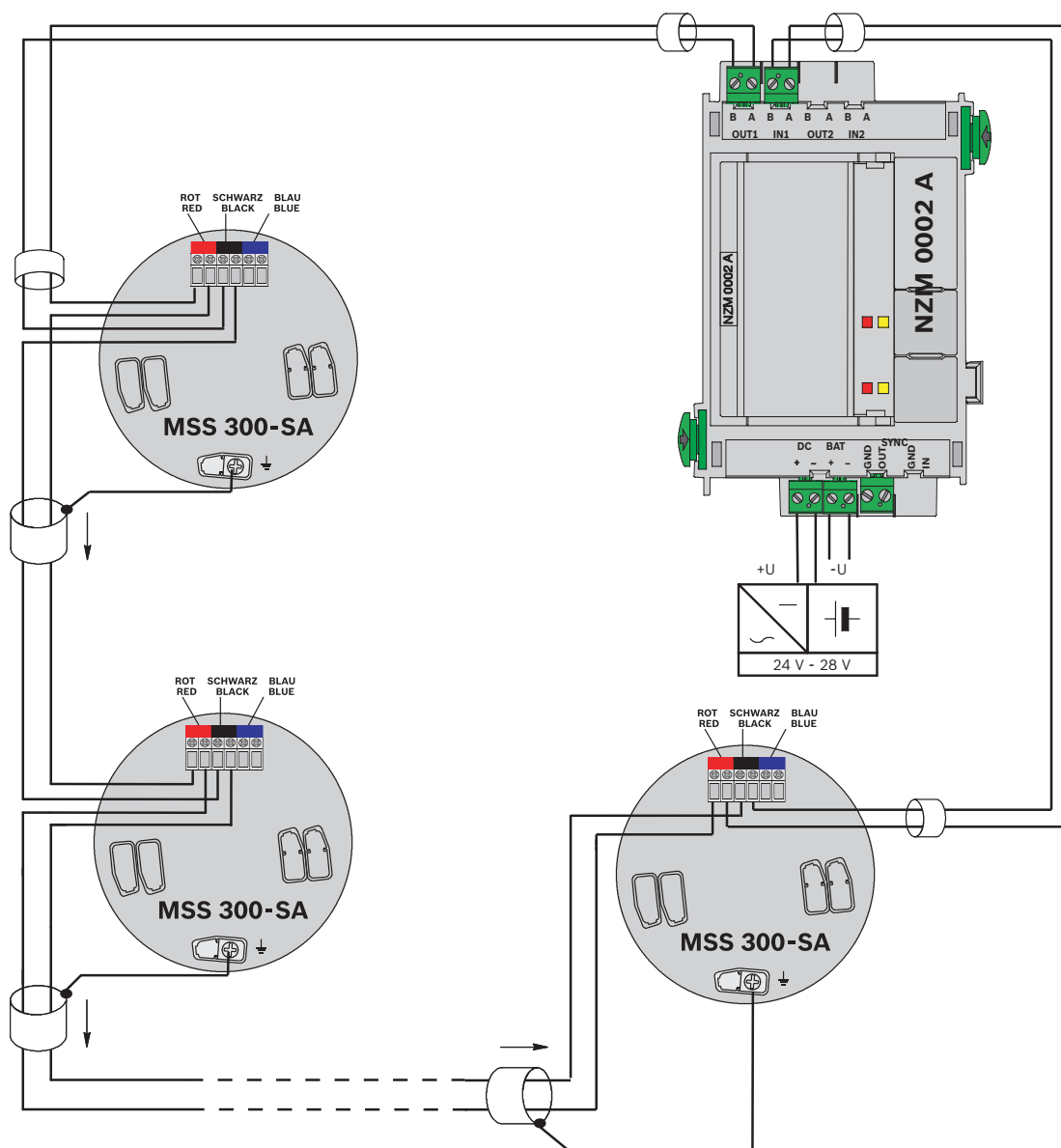




MSS 300-SA

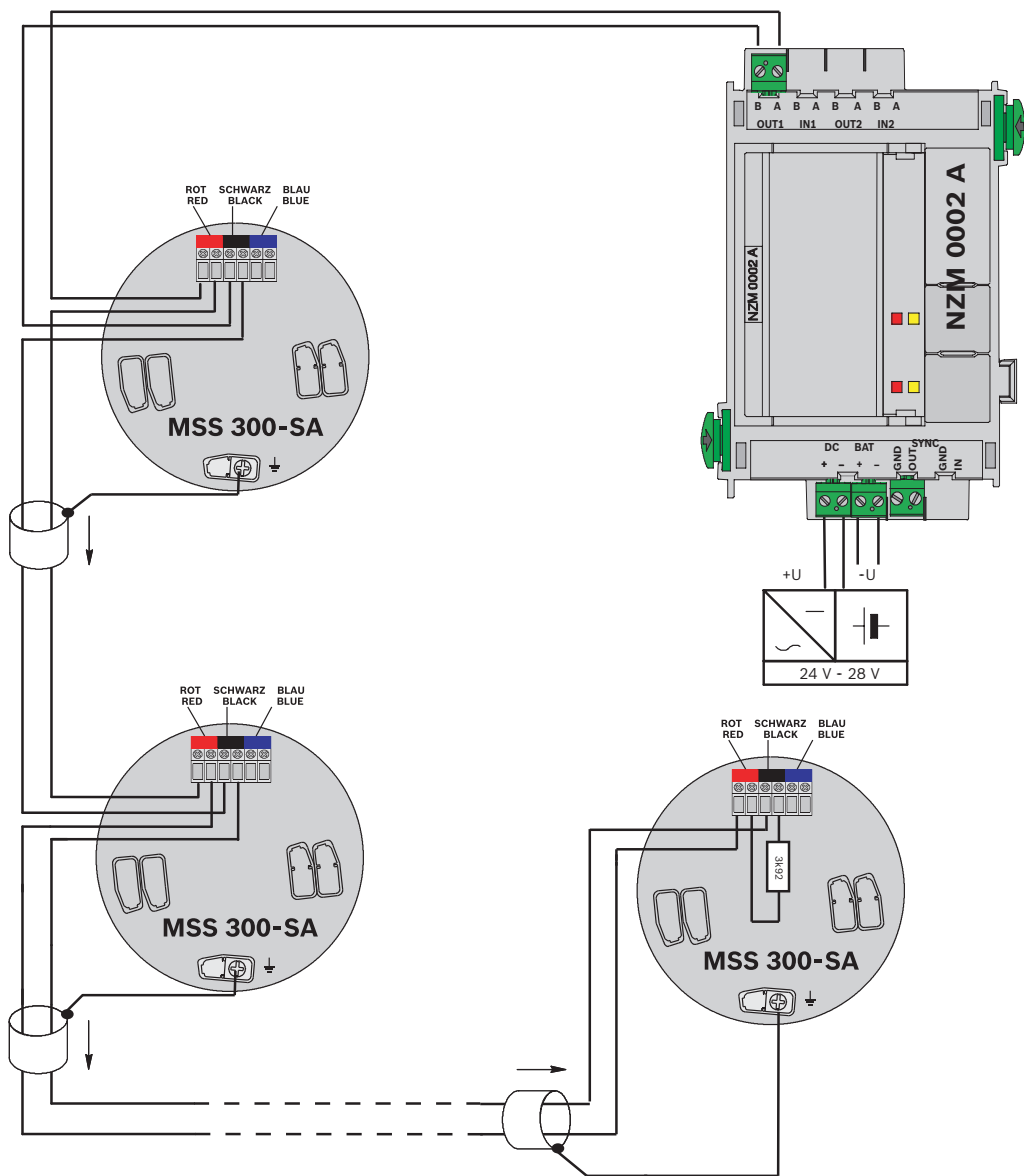
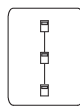


VdS 2489





MSS 300-SA



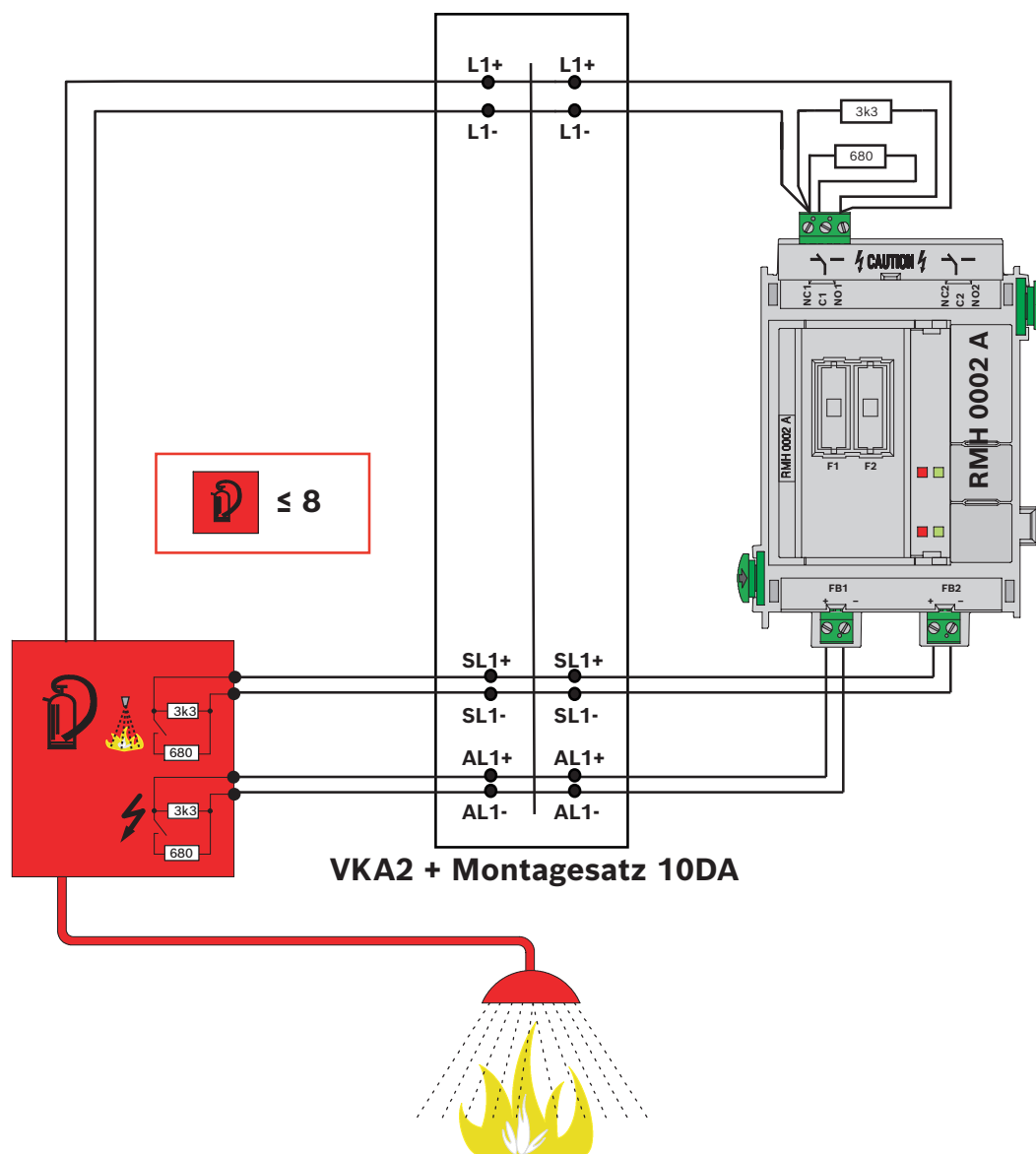
3.3.6

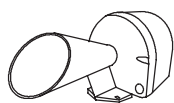
RMH 0002 A



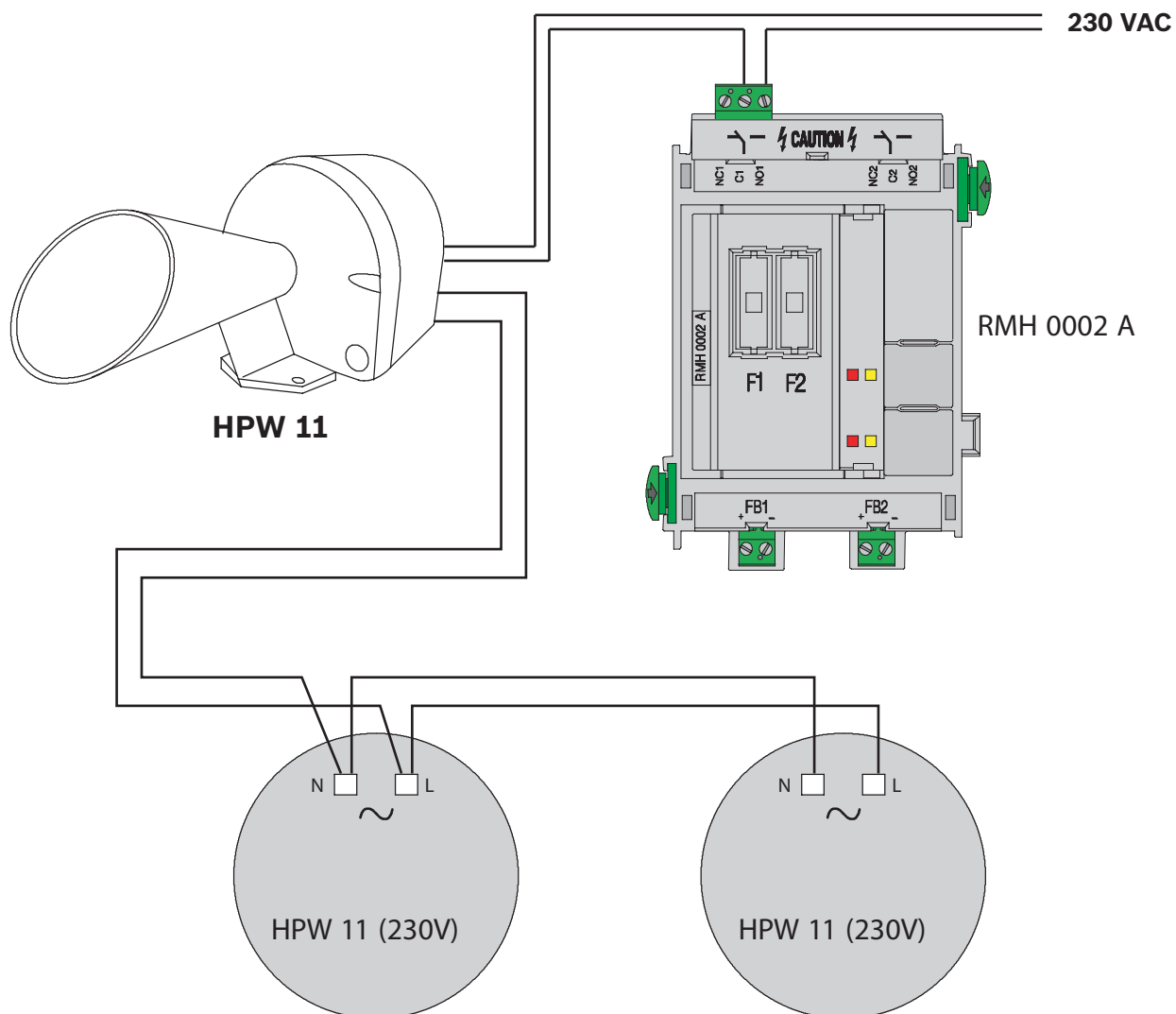
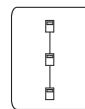
Löschanlage

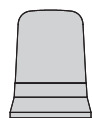
VdS 2496:2005-09



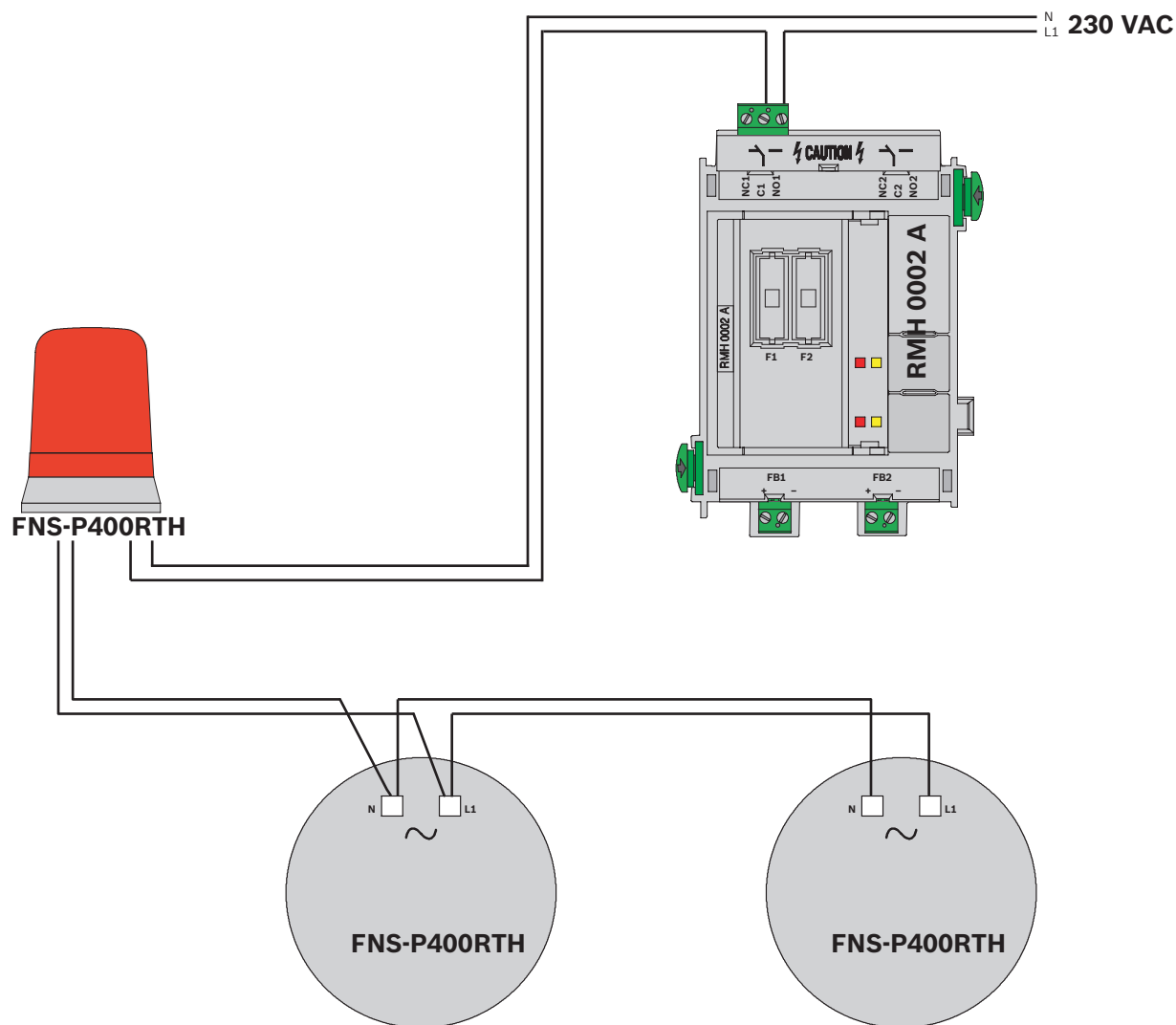
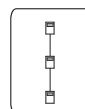


HPW 11



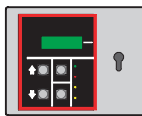


FNS-P400RTH

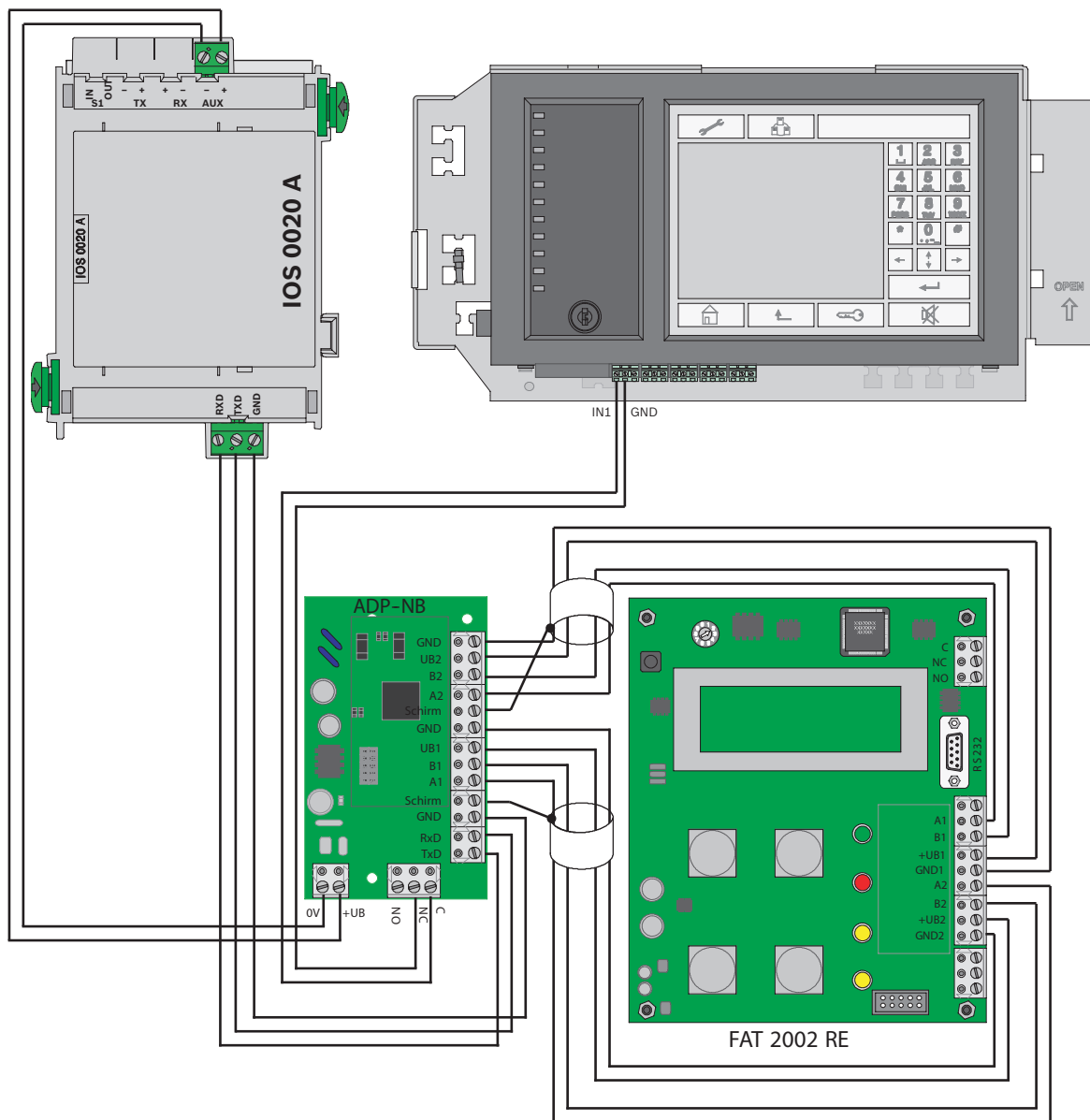


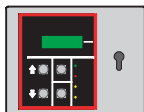
3.3.7

IOS 0020 A

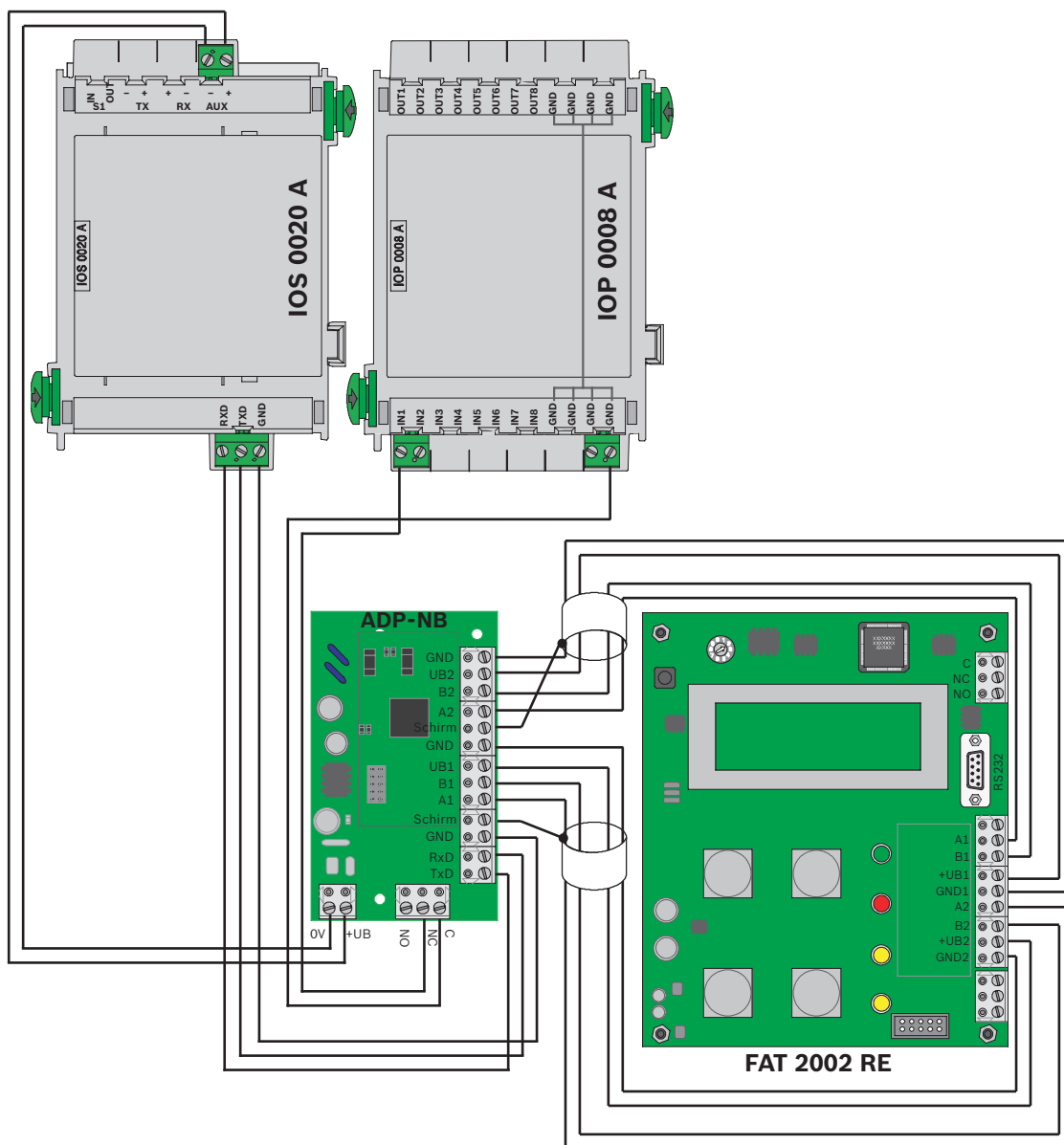


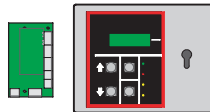
**FAT 2002 RE
ADP-NB**



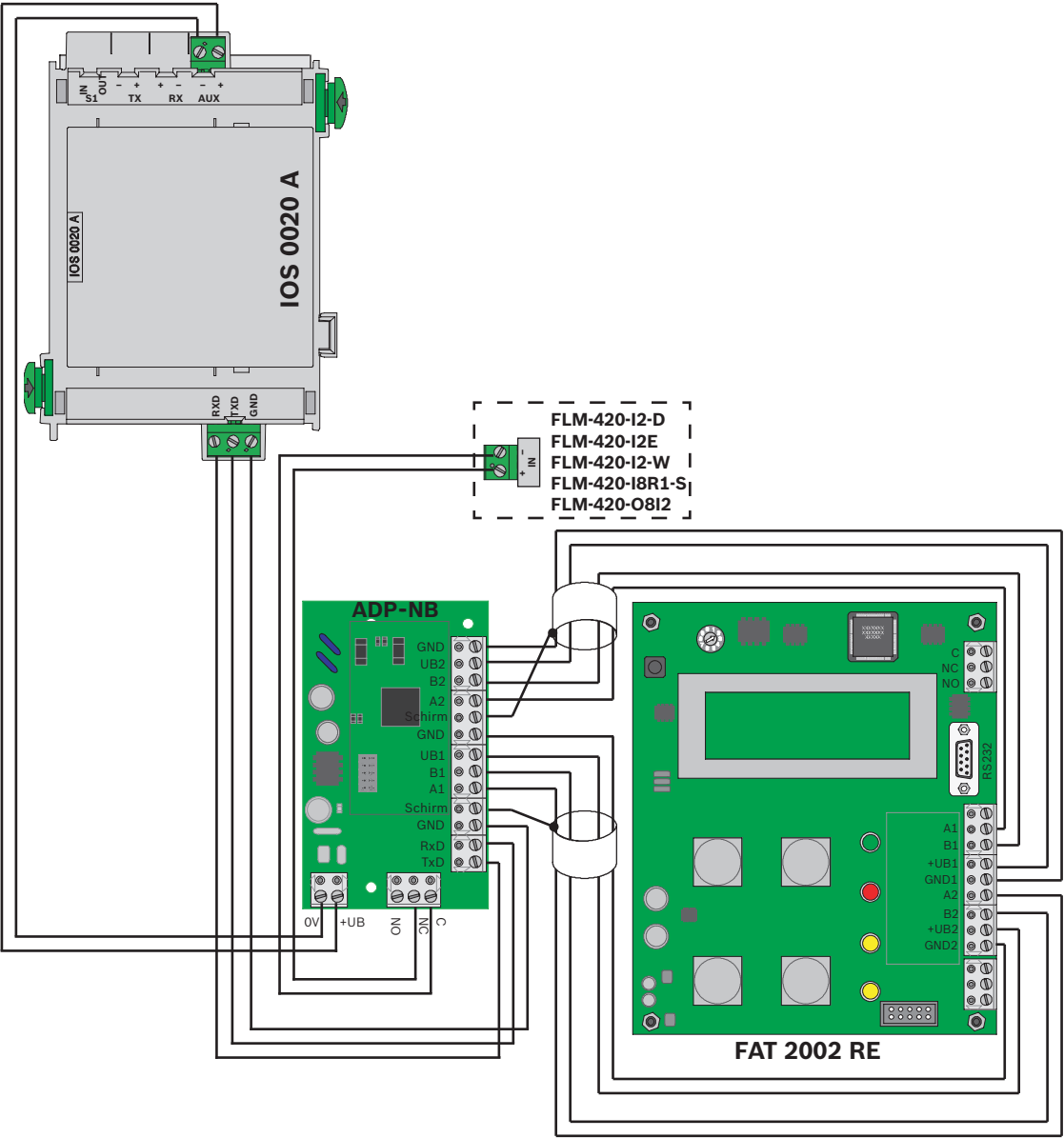


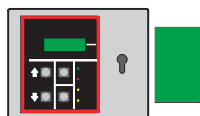
**FAT 2002 RE
ADP-NB**



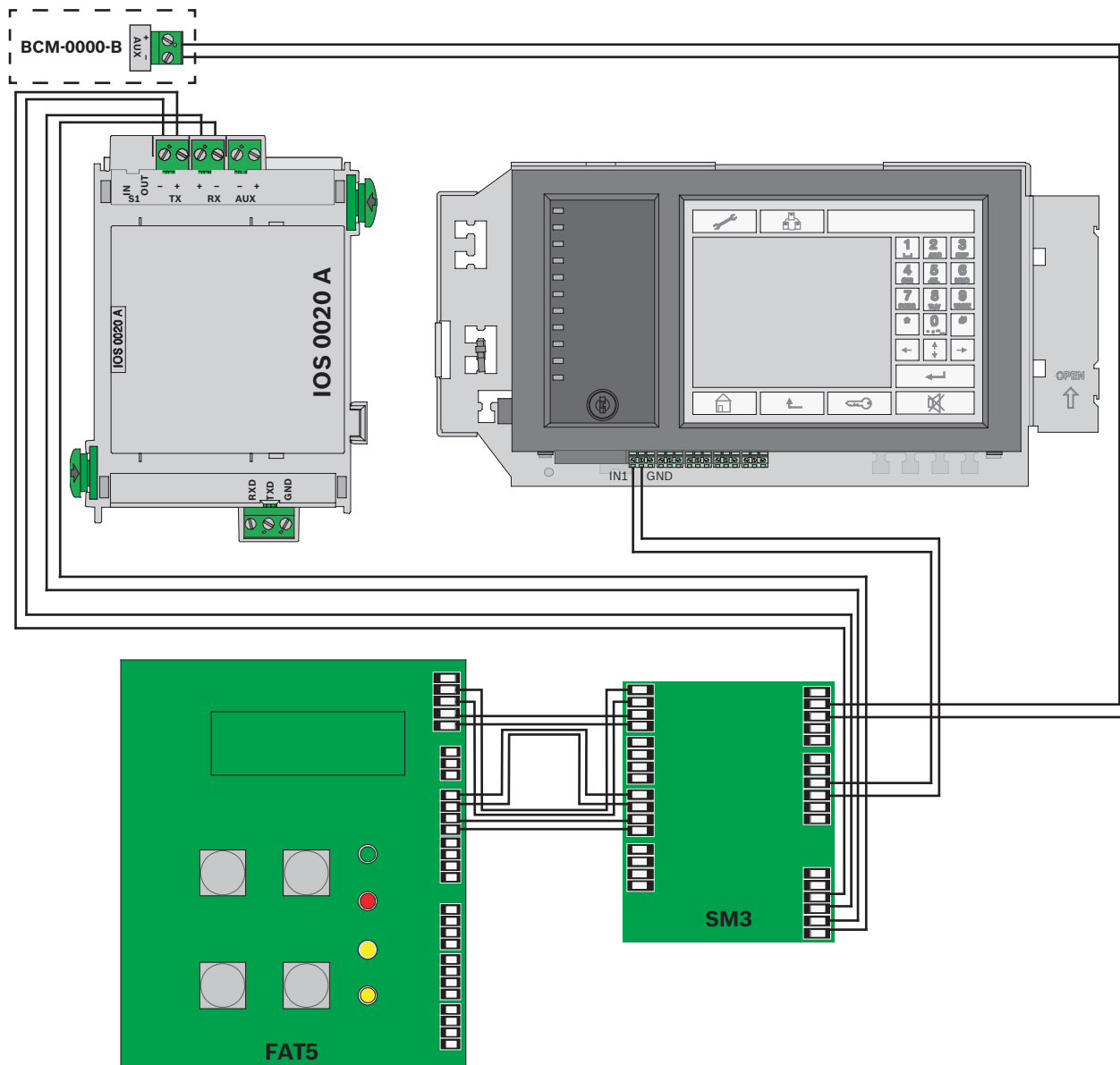


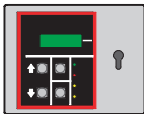
FAT 2002 RE
ADP-NB



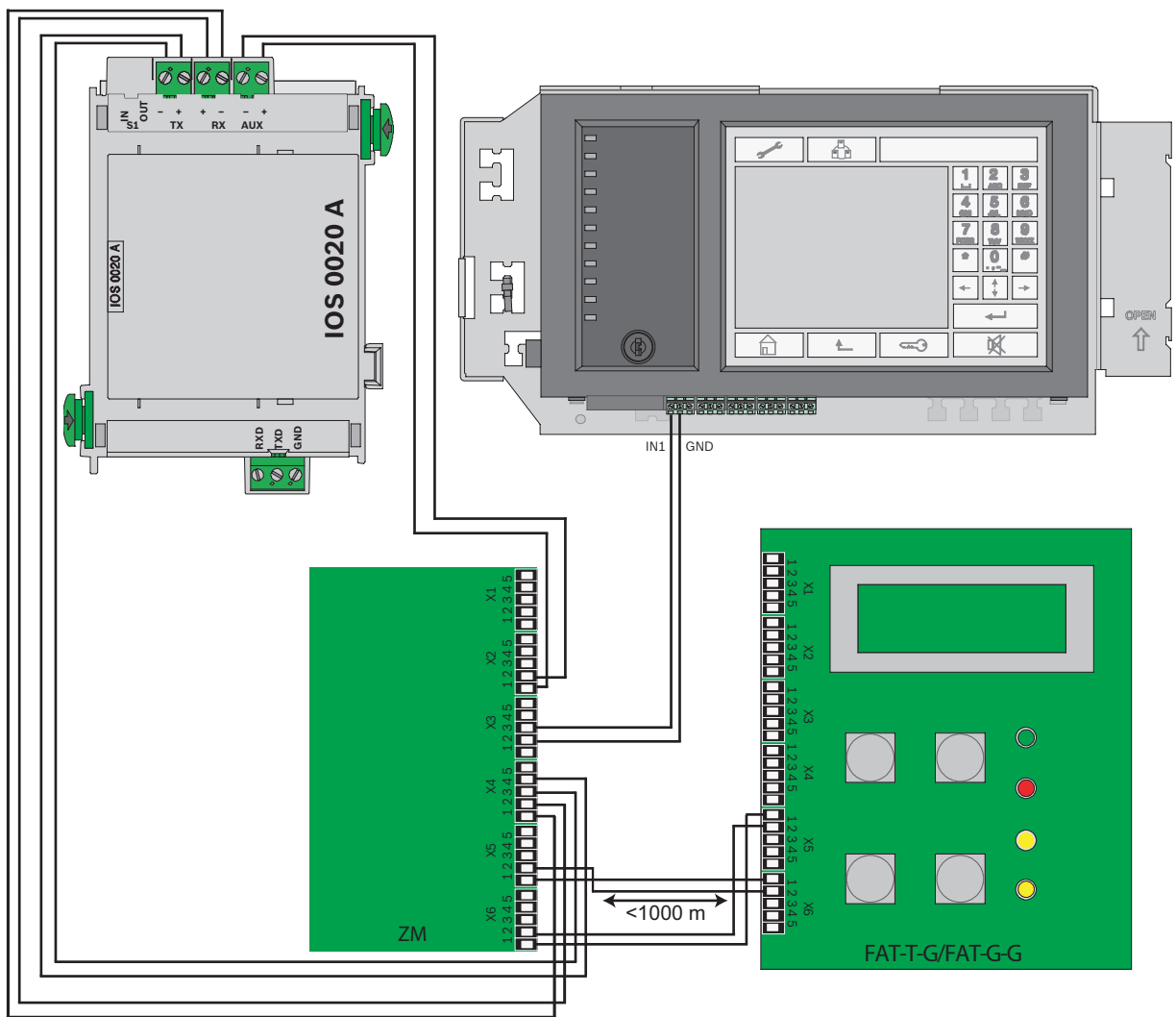


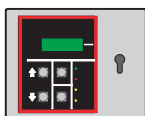
**FAT5
SM3**



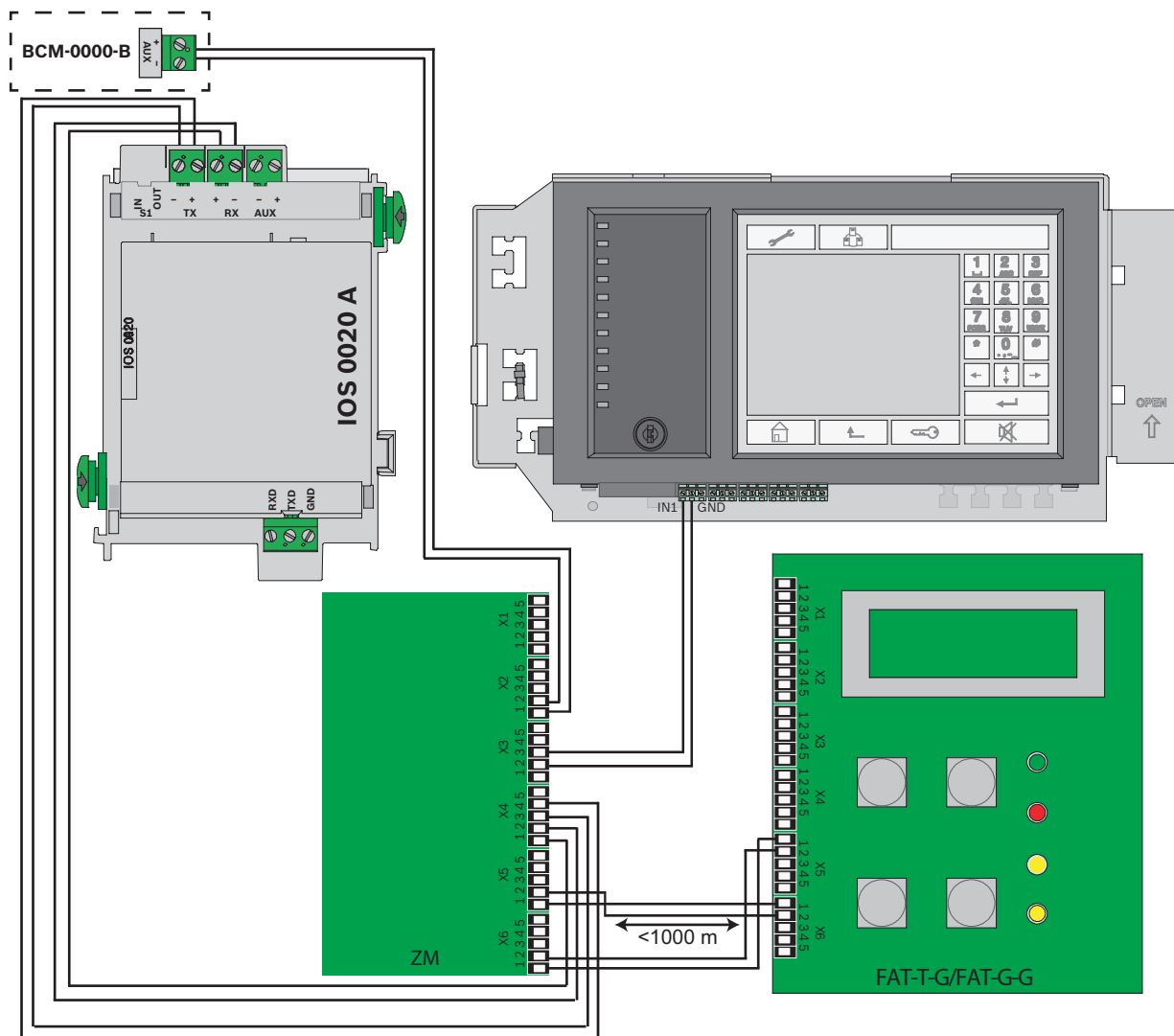


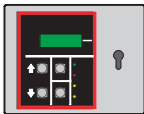
FAT-T-G/FAT-G-G
ZM



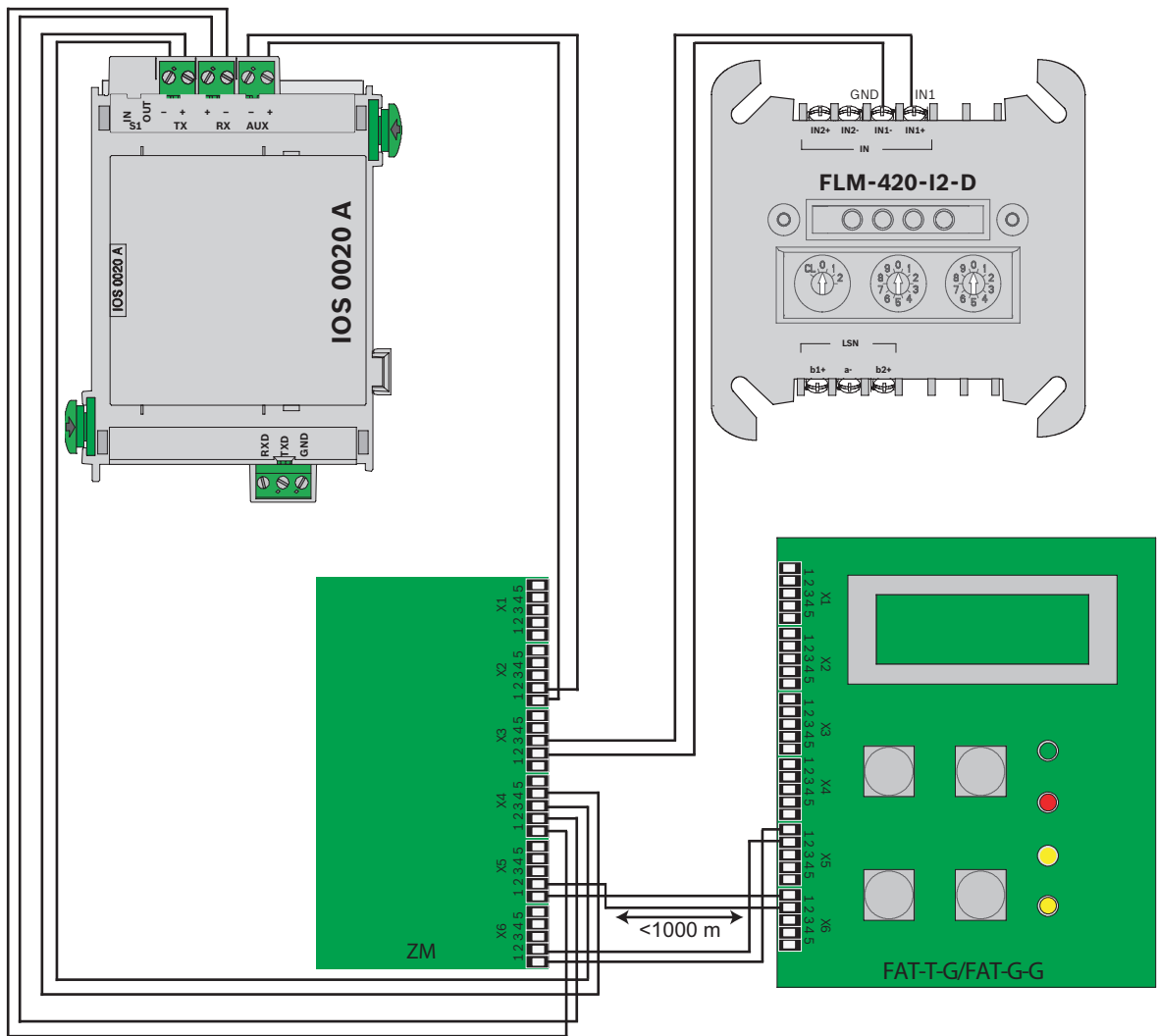


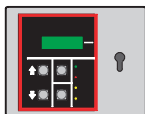
FAT-T-G/FAT-G-G
ZM



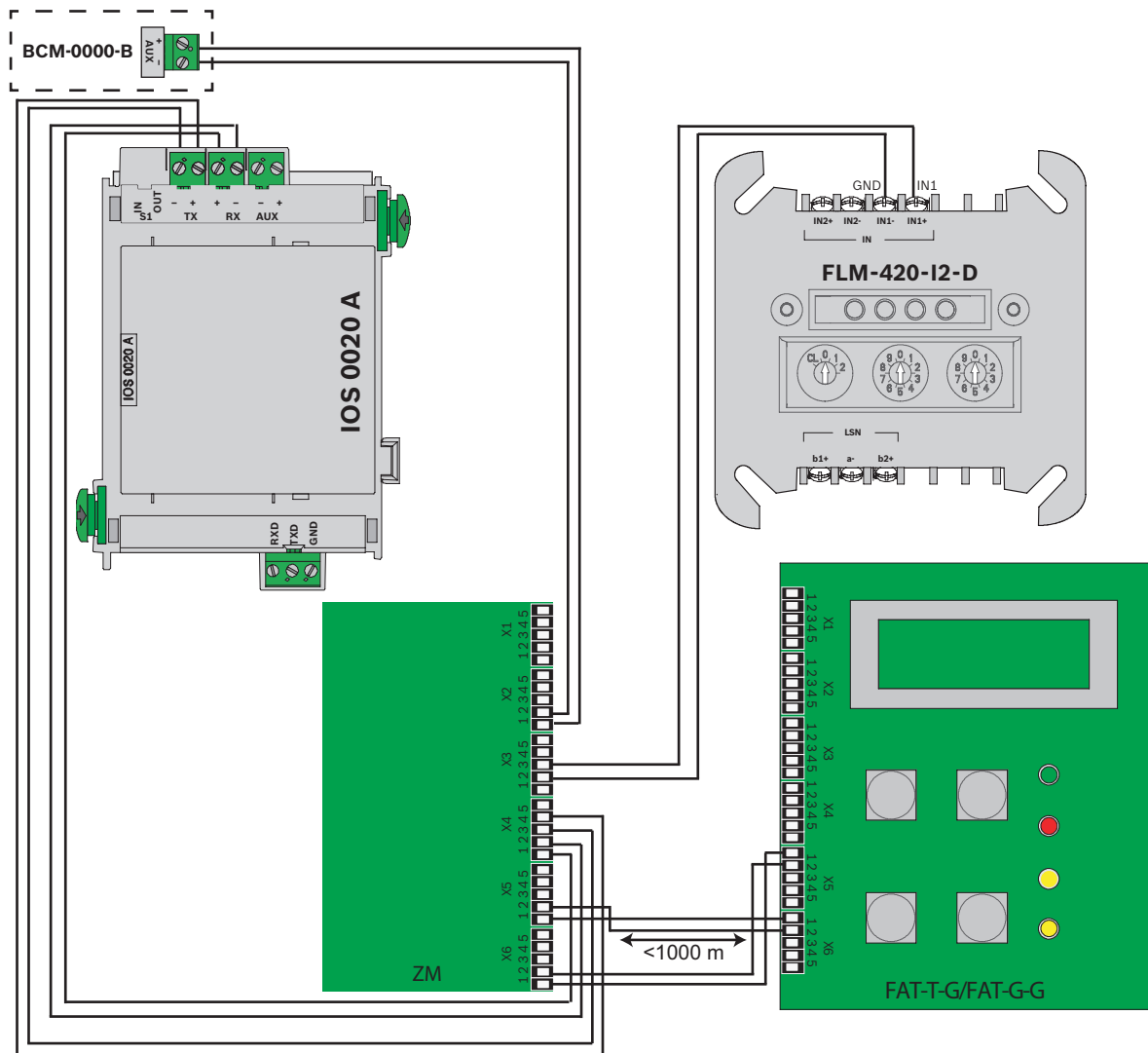


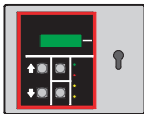
FAT-T-G/FAT-G-G
ZM



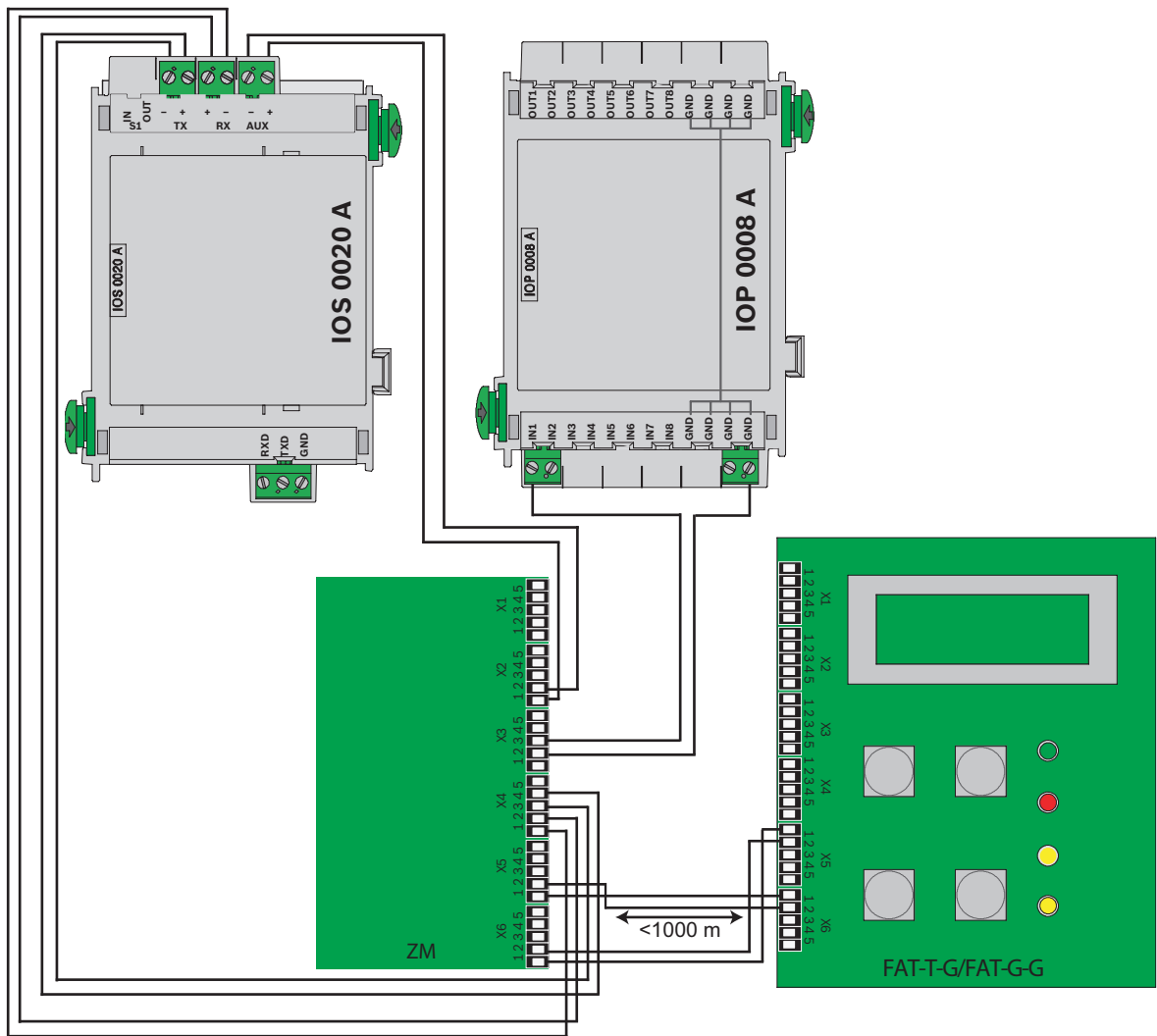


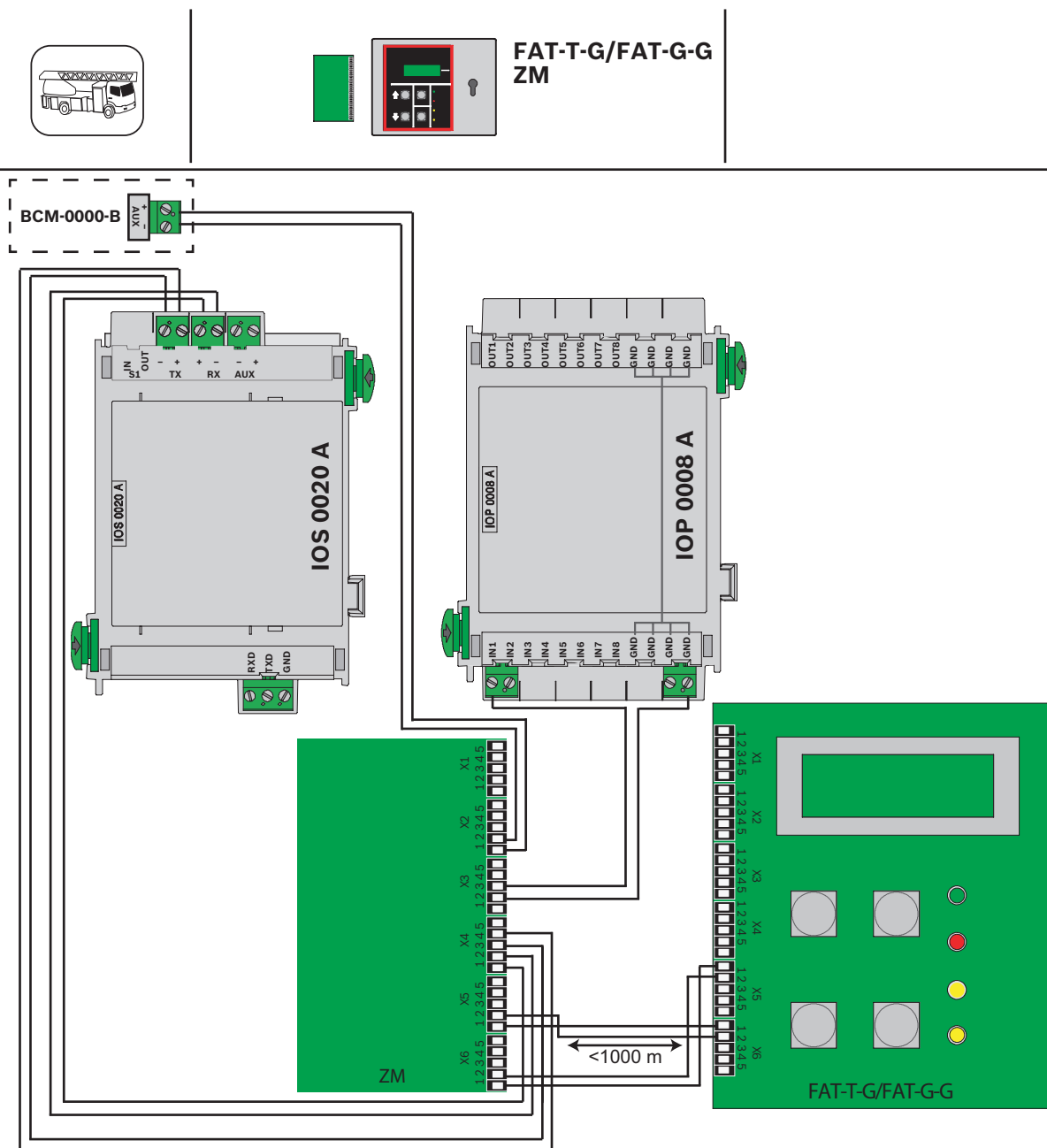
FAT-T-G/FAT-G-G
ZM

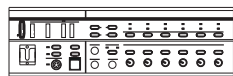
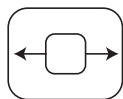




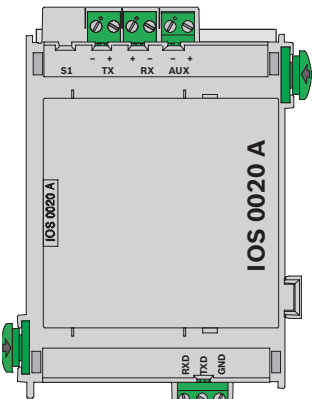
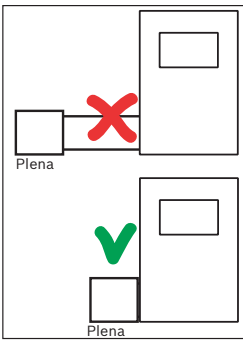
FAT-T-G/FAT-G-G
ZM



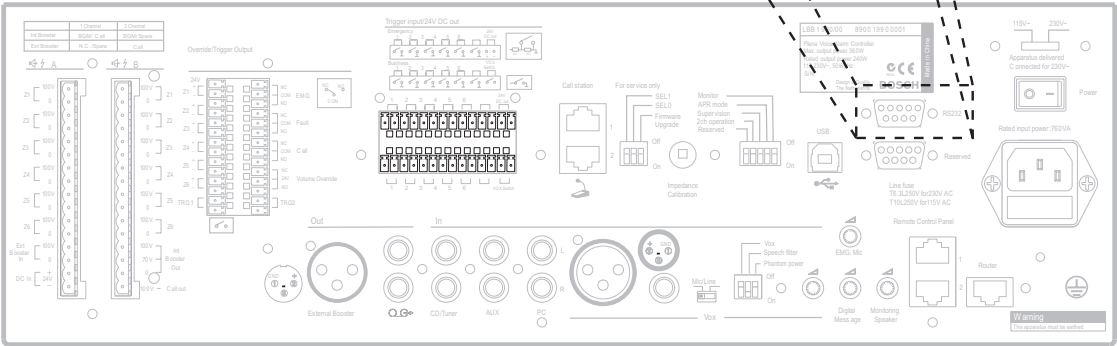
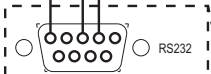




Plena

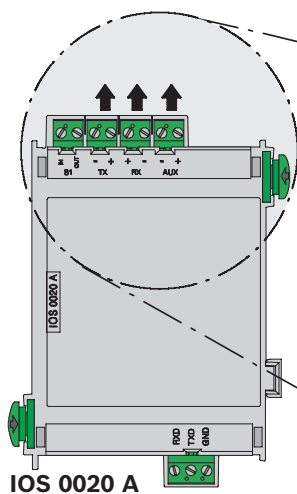
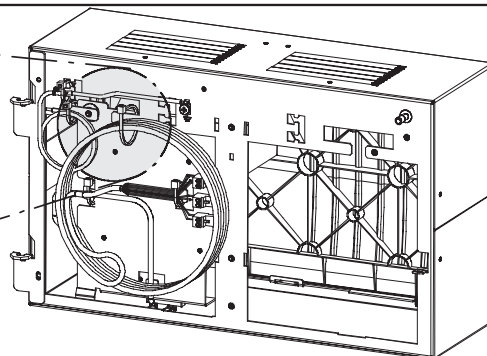
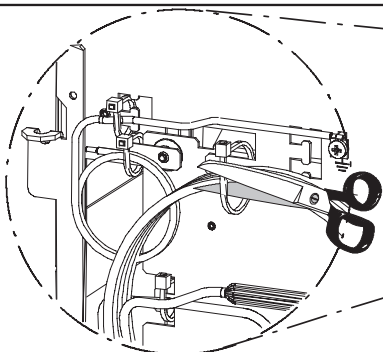


max. 3m

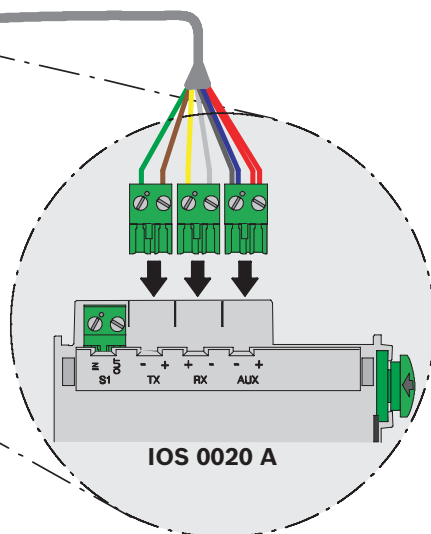




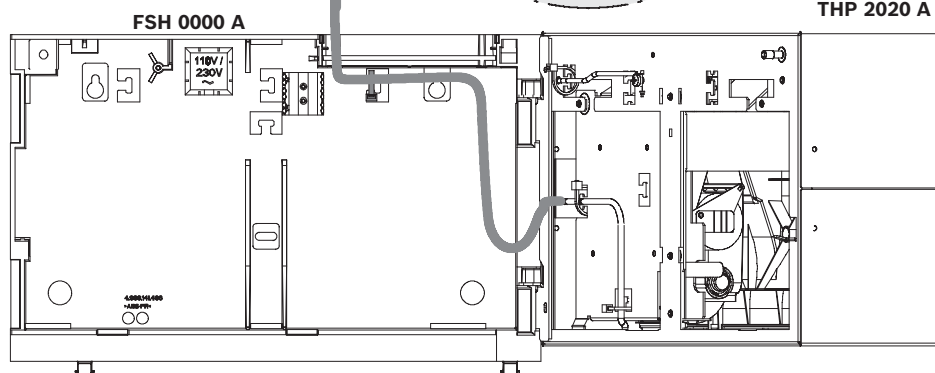
THP 2020 A



IOS 0020 A

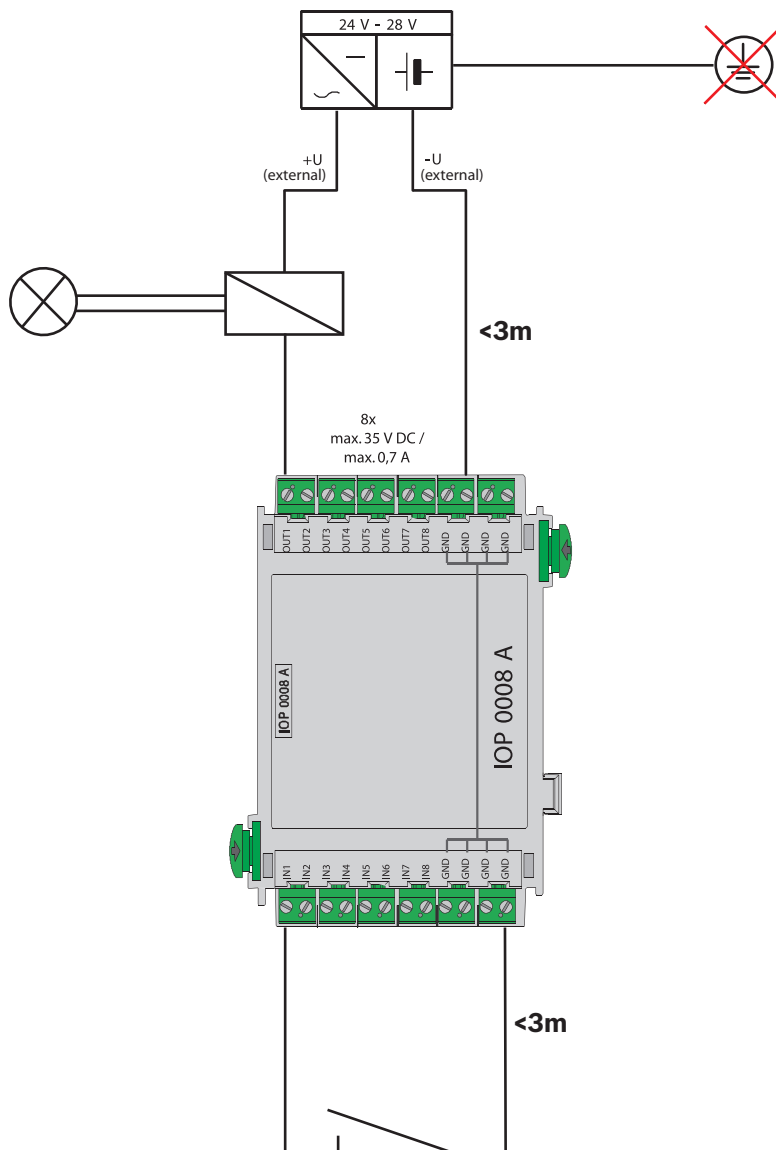
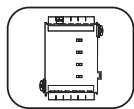


IOS 0020 A



FSH 0000 A

THP 2020 A

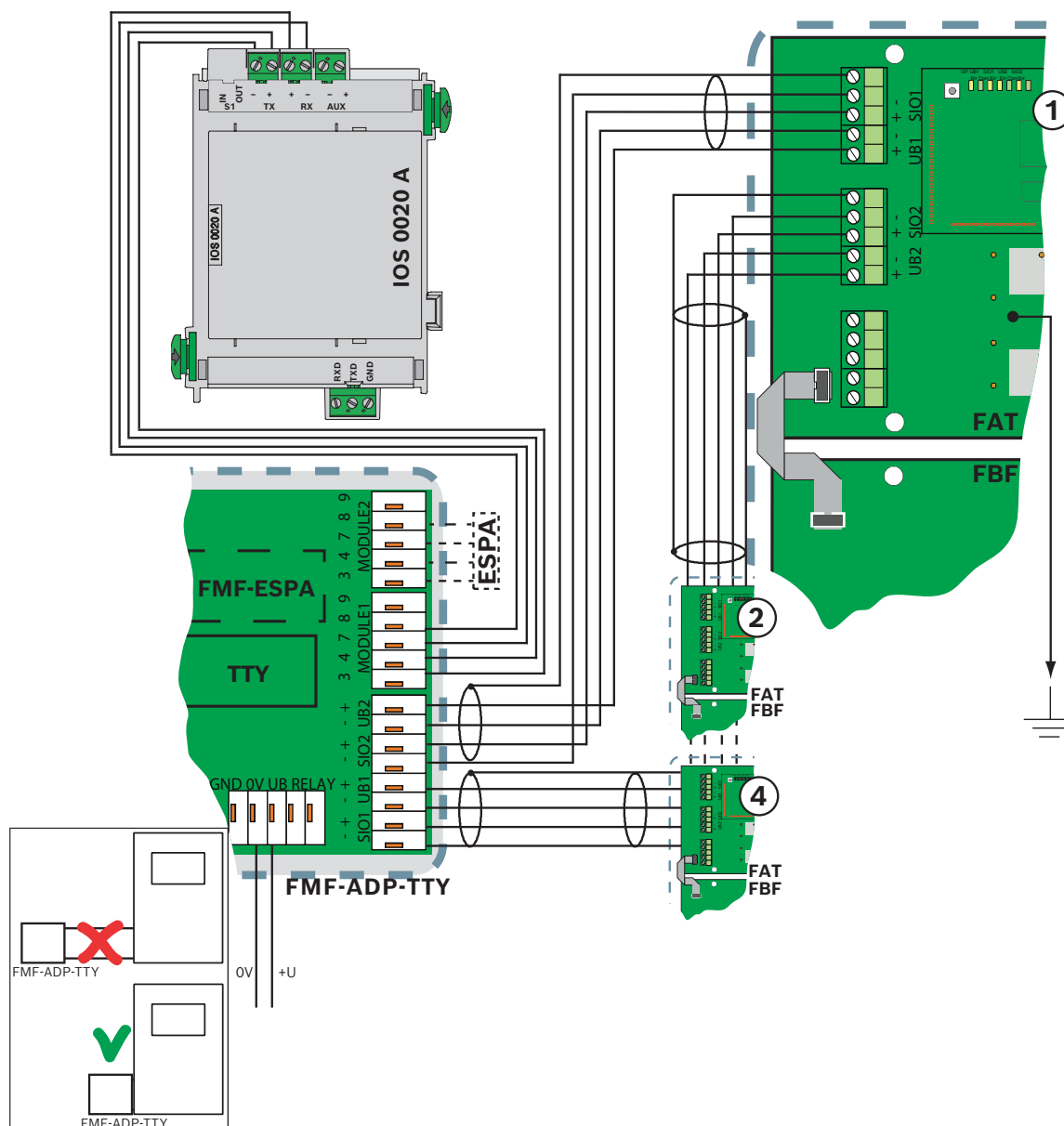




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489

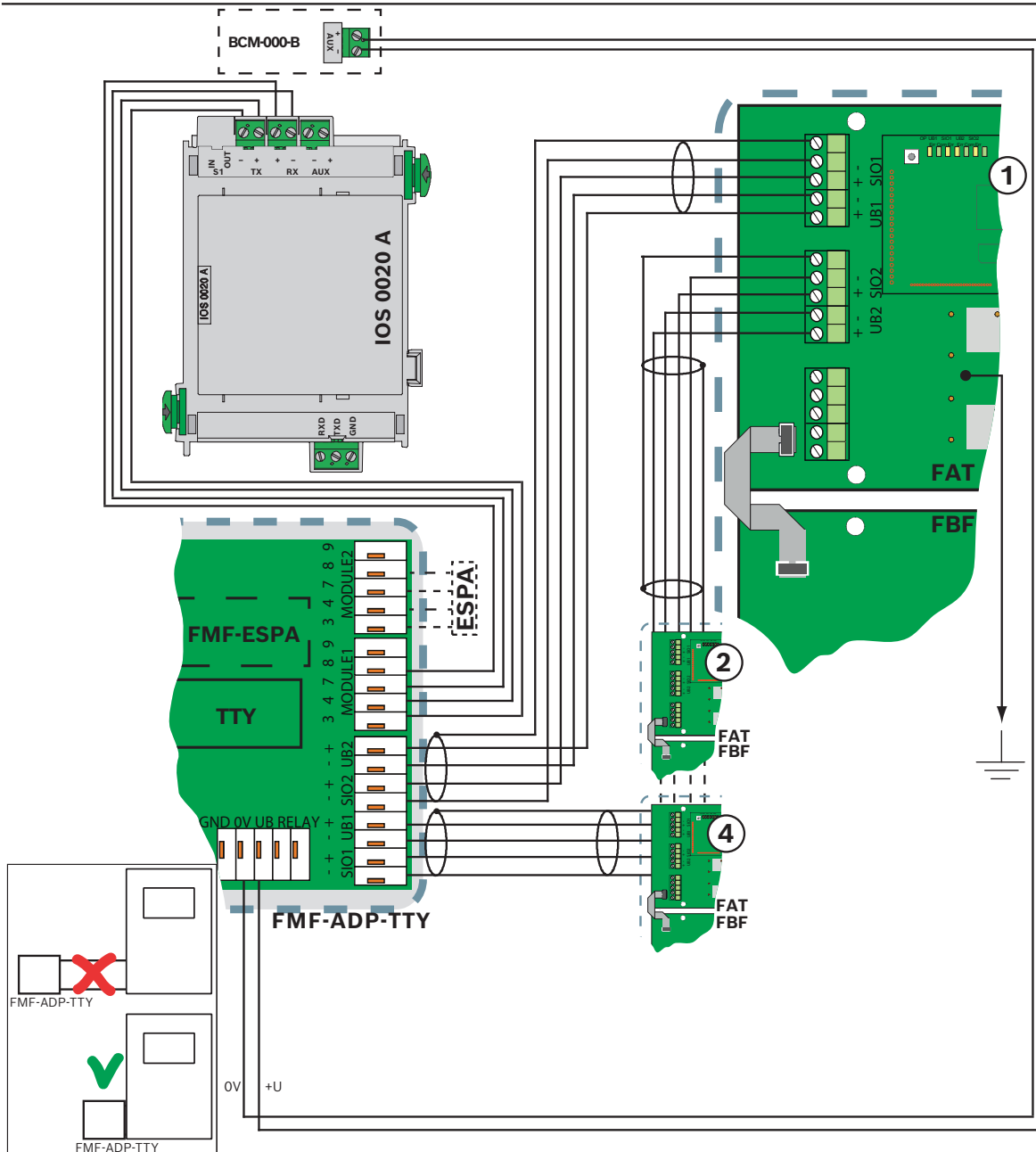




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



3.3.8

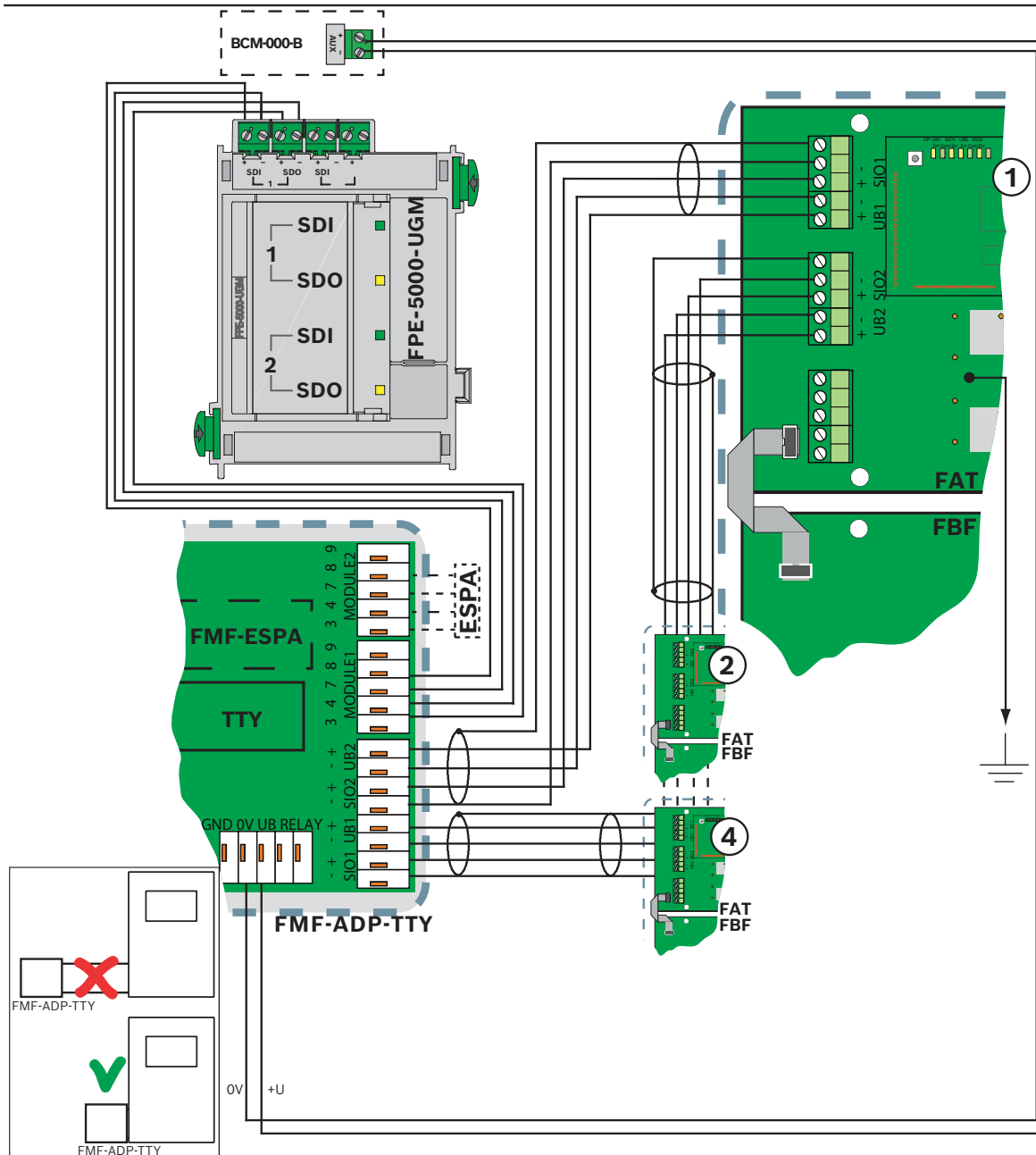
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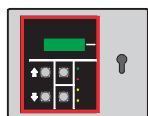
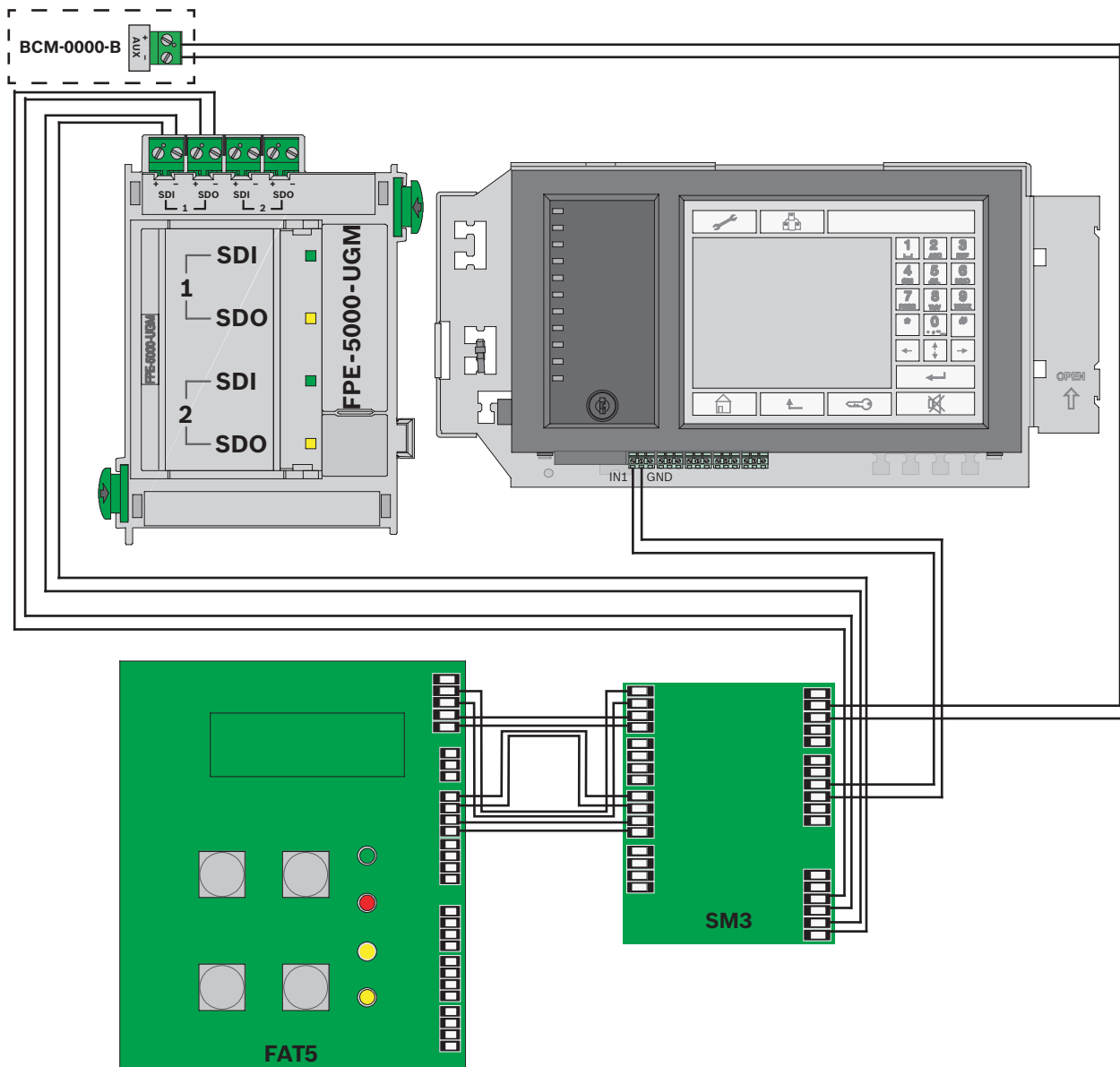


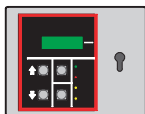
FAT4000 FBF4000 ADP4000

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

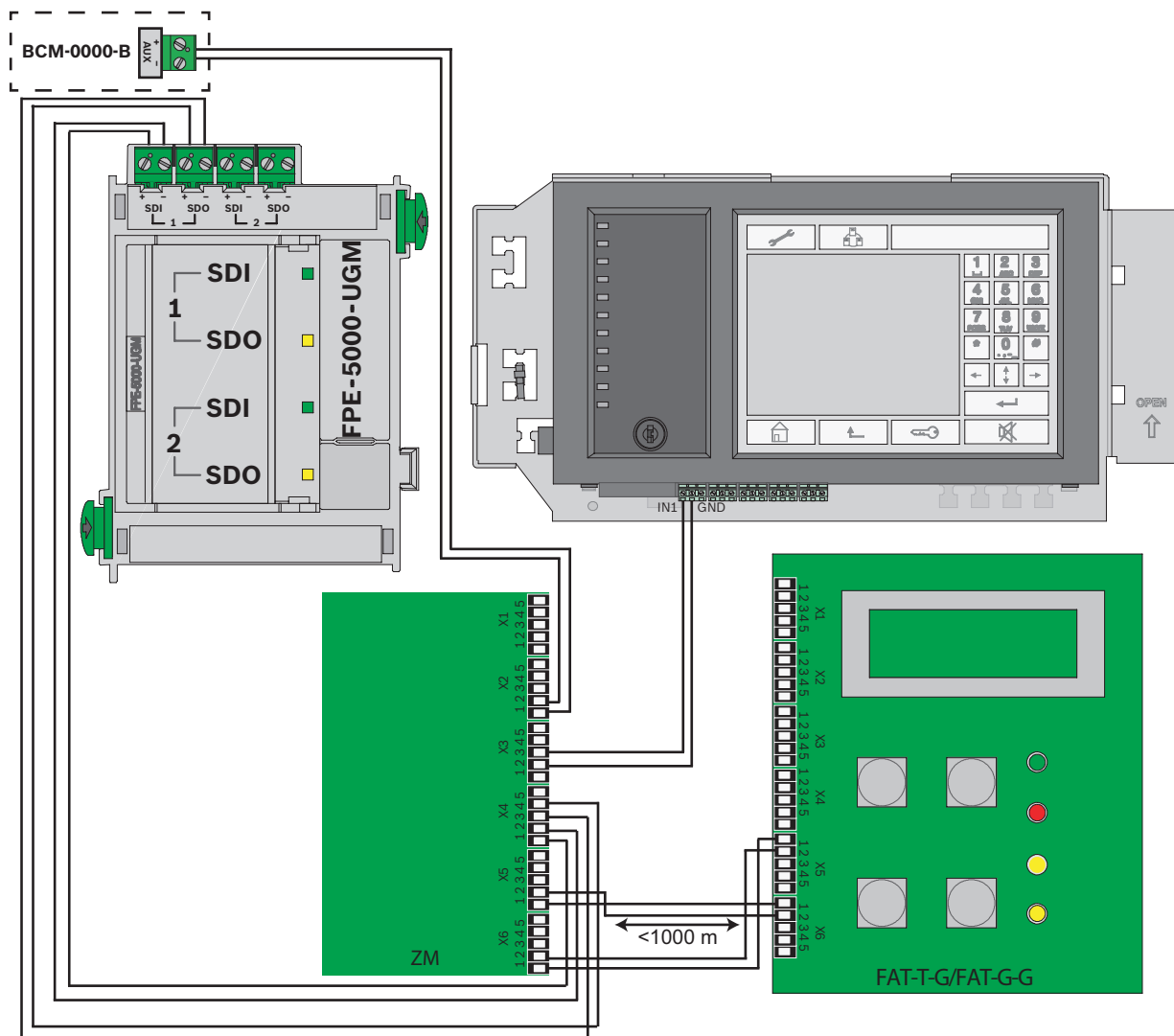
ELS VdS 2489

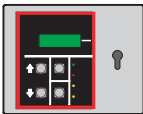


**FAT5
SM3**

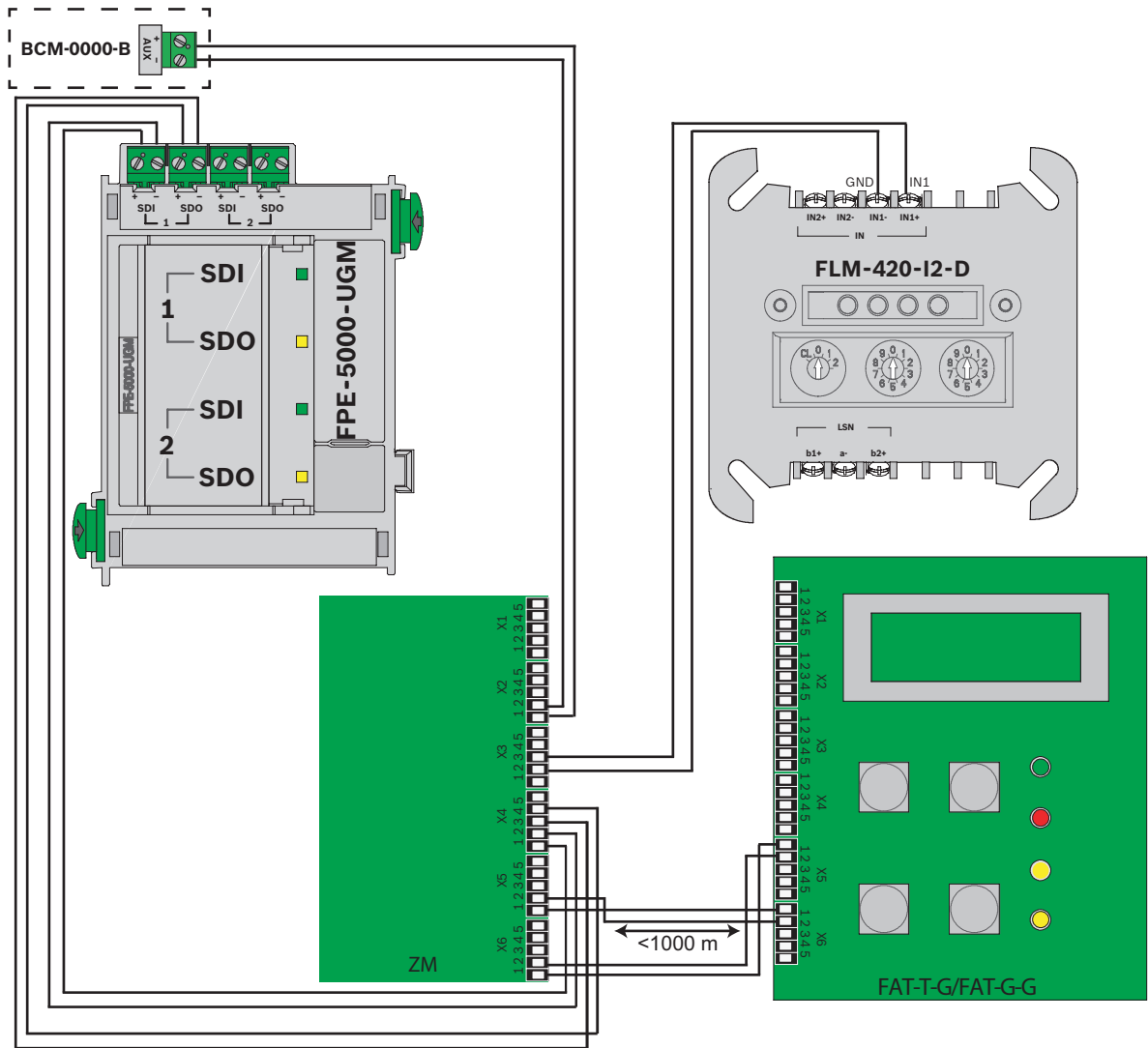


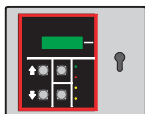
FAT-T-G/FAT-G-G
ZM



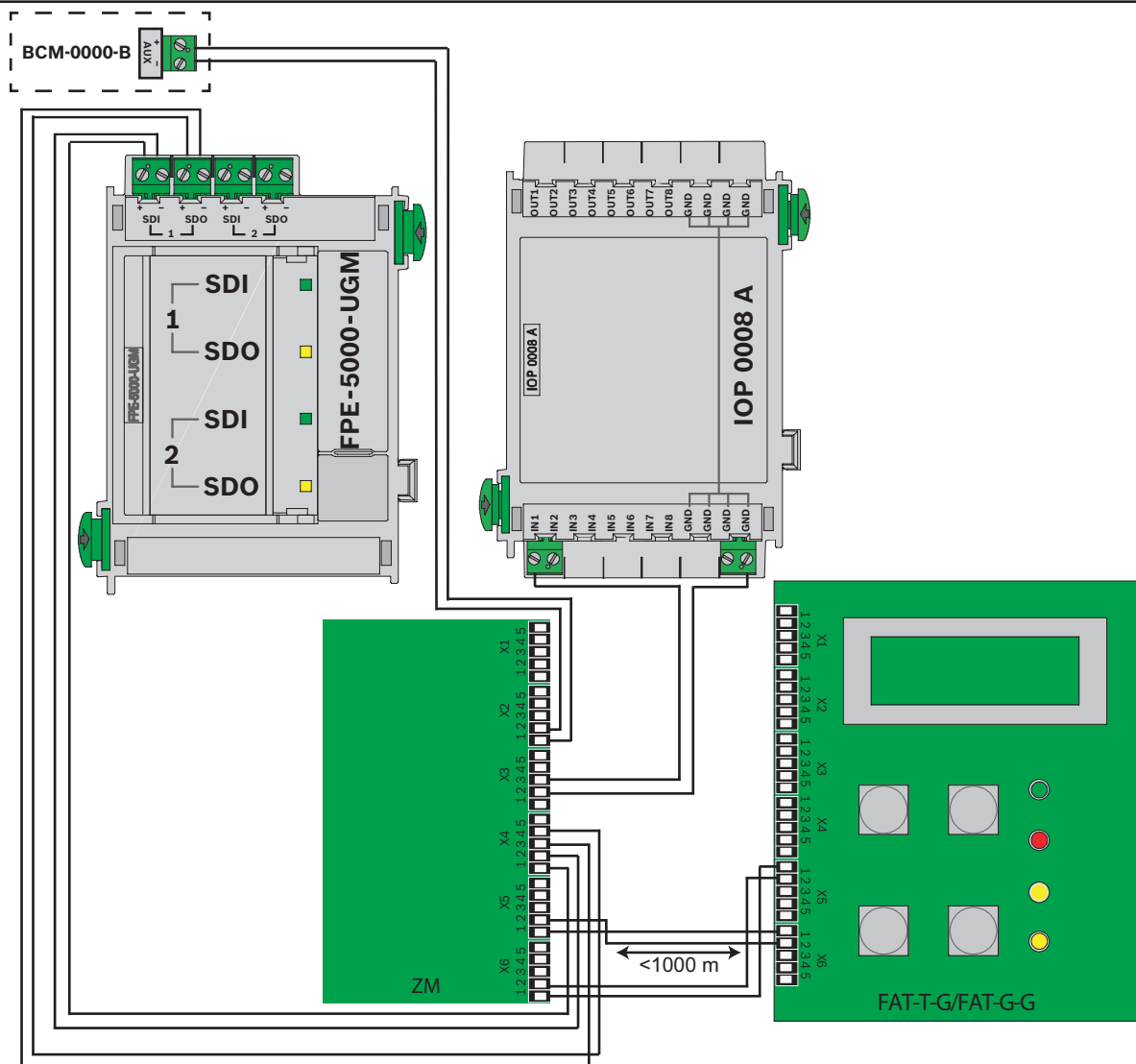


FAT-T-G/FAT-G-G
ZM





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



3.4 Módulos de interfaz



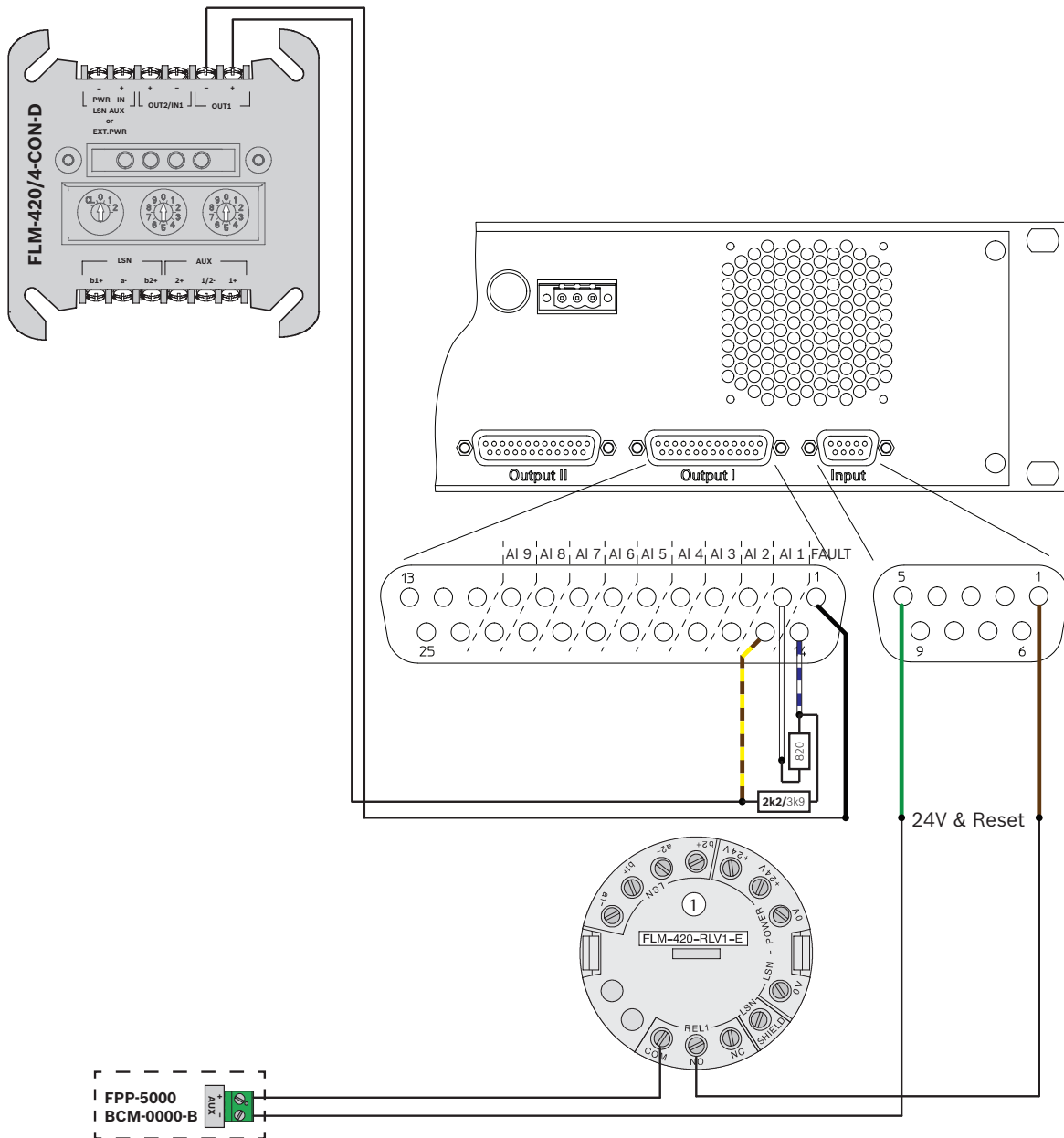
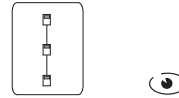
FLM-420/4-CON-D/S, Página 137

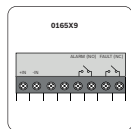
FLM-420-NAC-D/S, Página 162

FLM-420-RLE-S, Página 175

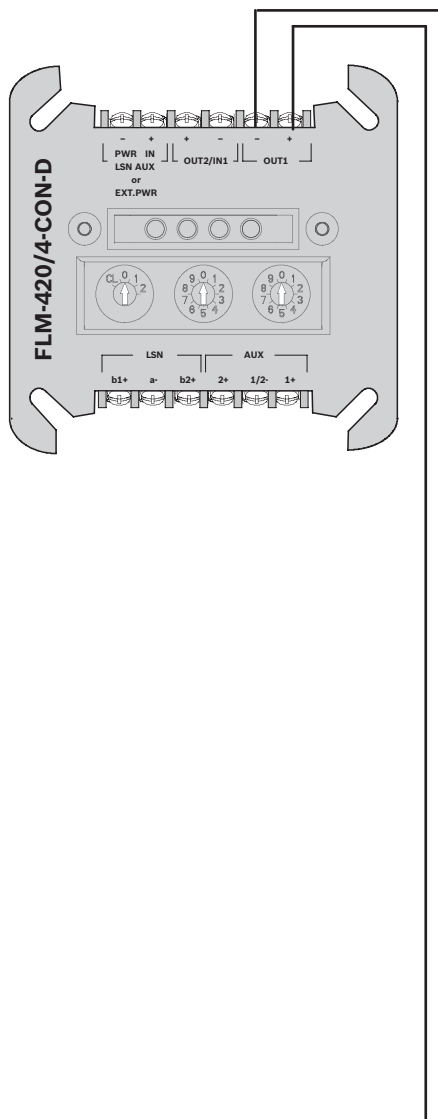
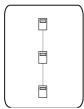
FLM-420-RLV1-E, Página 176

FLM-420-RLV8-S, Página 177

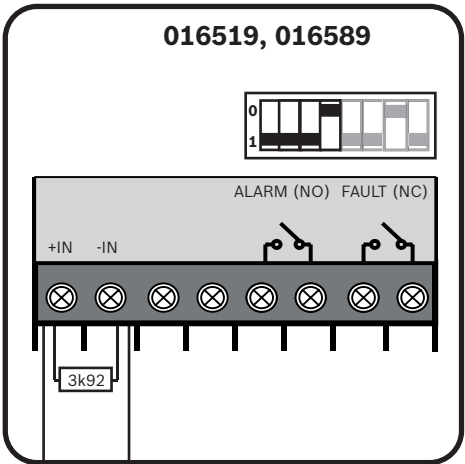


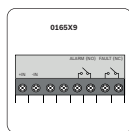


016519, 016589
IR3 Flame Detector

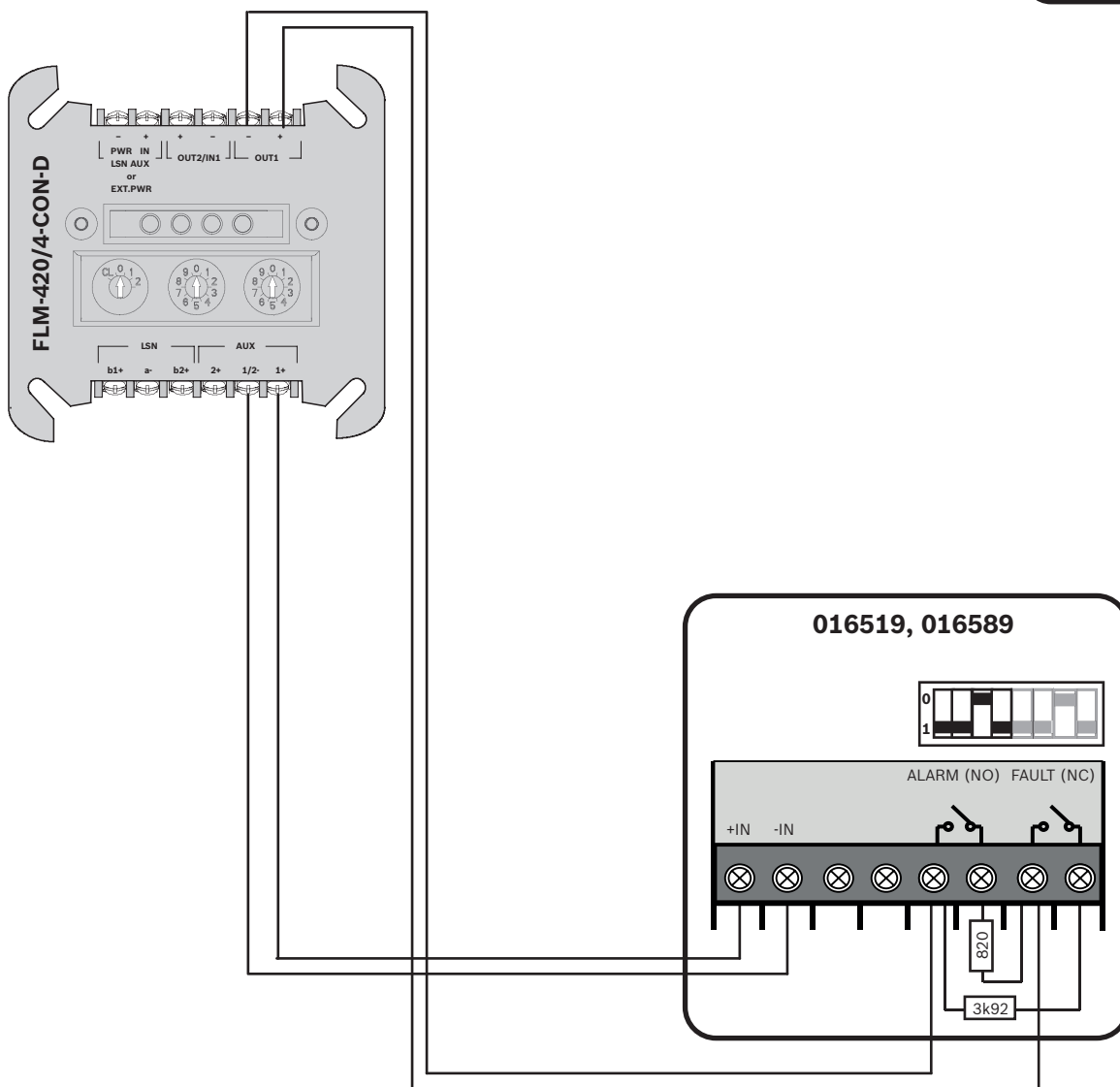
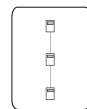


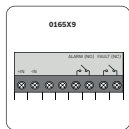
max. 1 x 0165X9



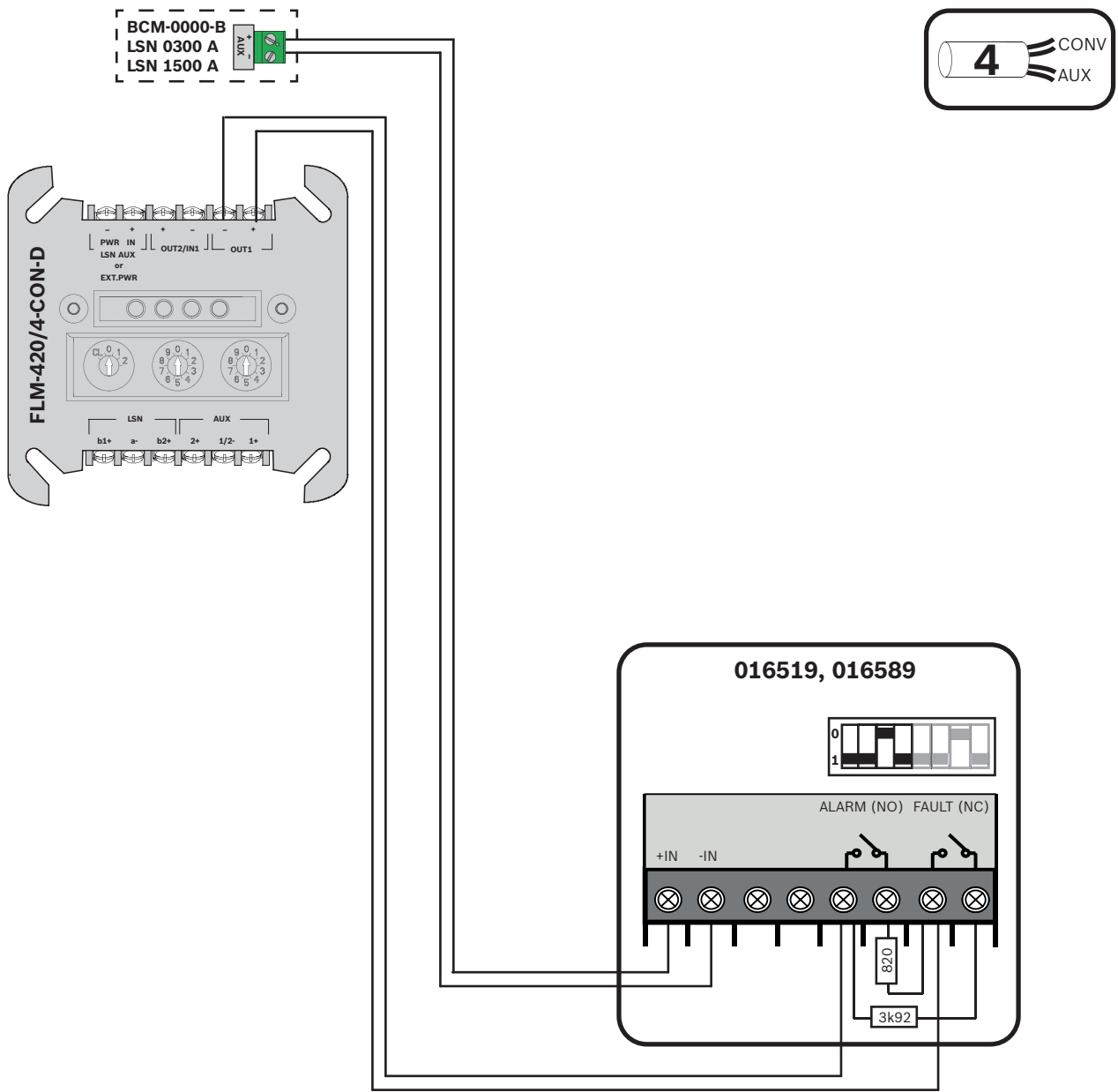
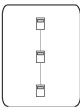


016519, 016589 IR3 Flame Detector



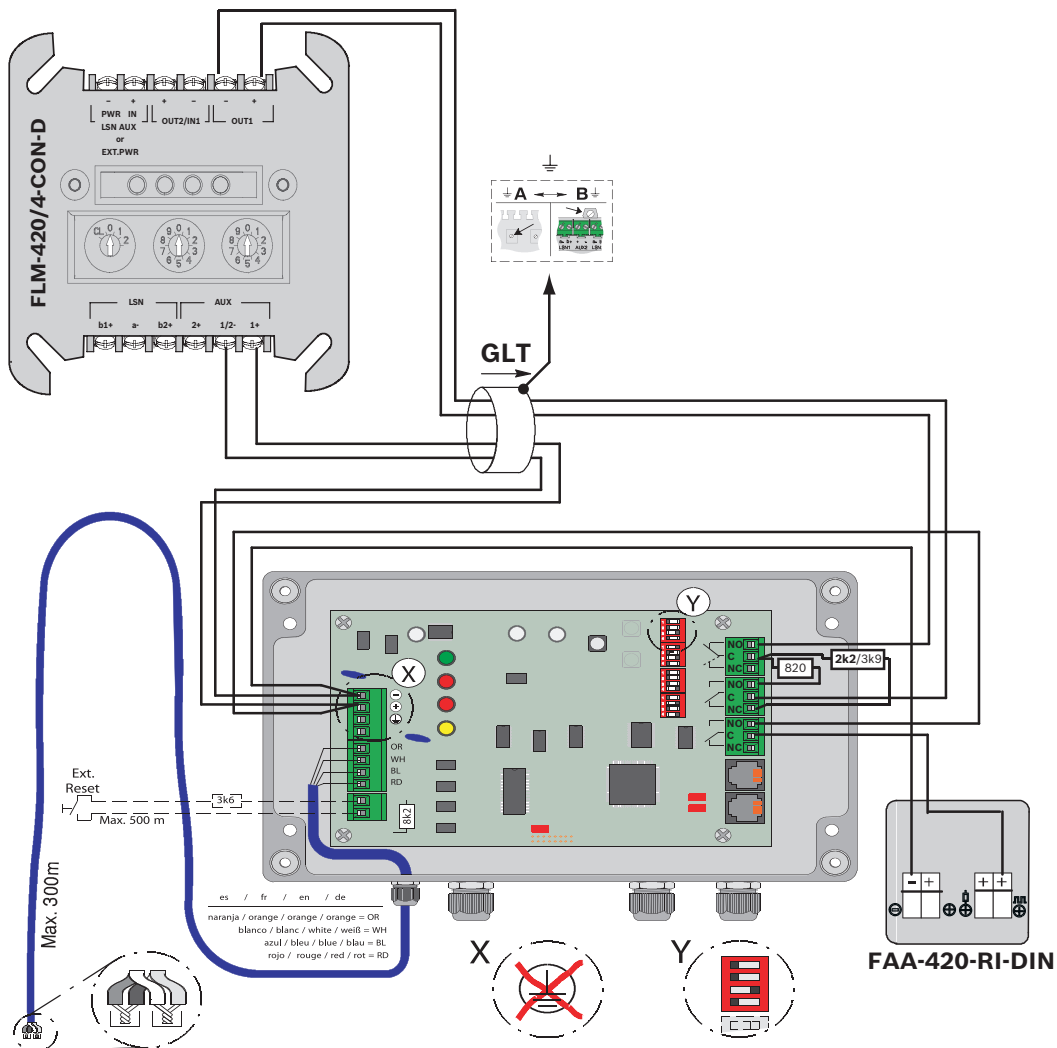
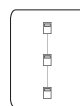


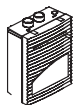
016519, 016589
IR3 Flame Detector





FCS-LWM-1

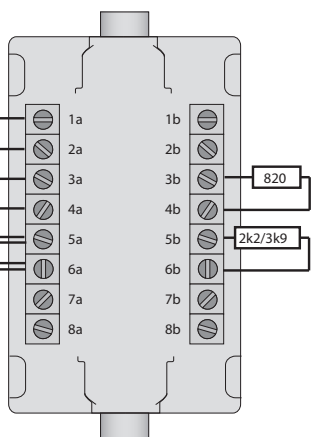
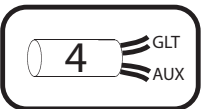
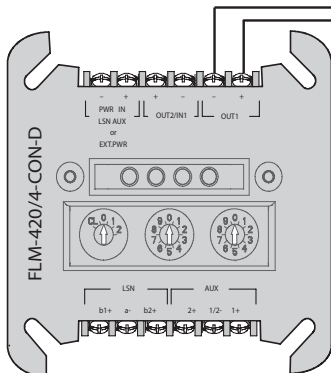


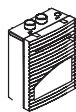


FCS-320-TM Series

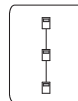


BCM-0000-B
LSN 0300 A
LSN 1500 A

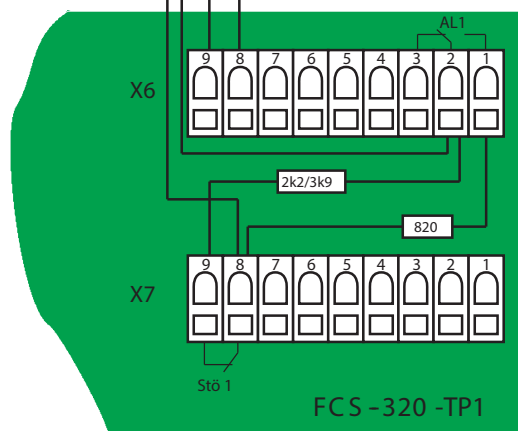
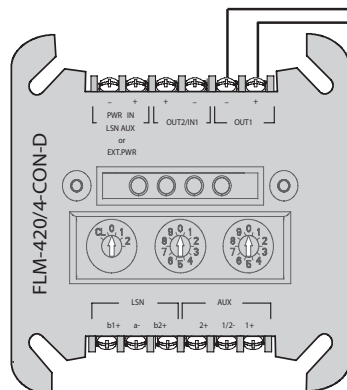
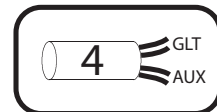


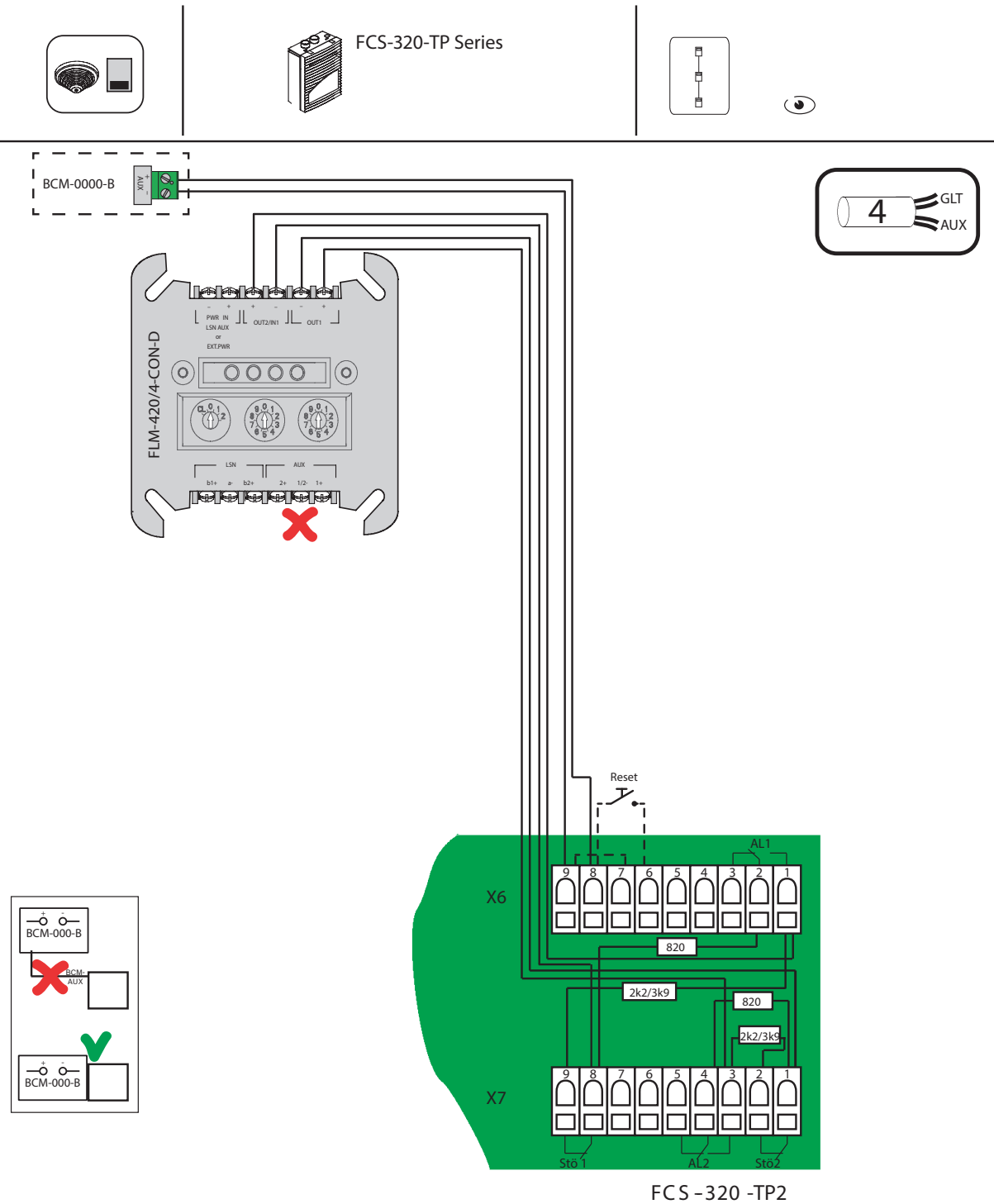


FCS-320-TP Series



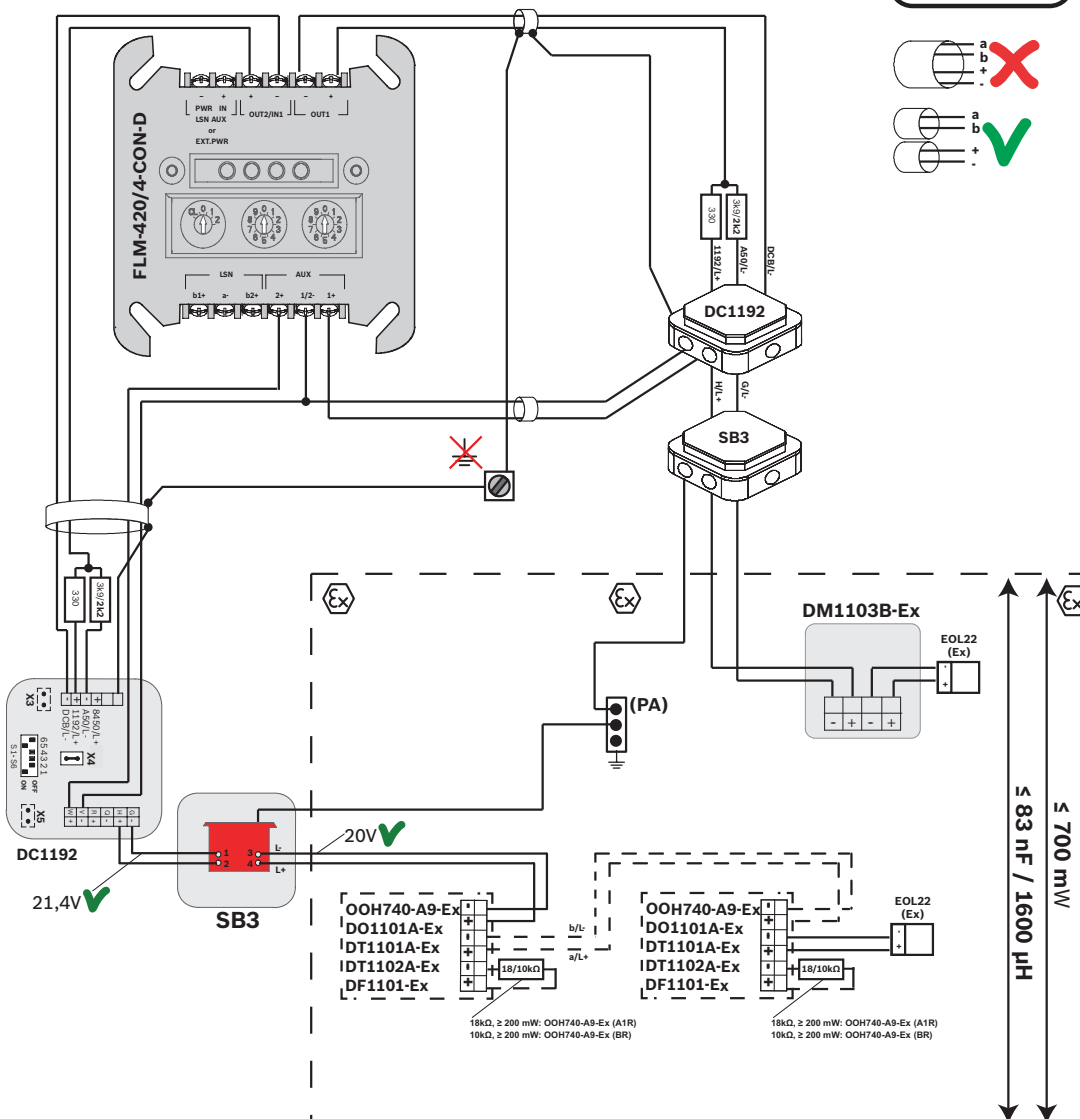
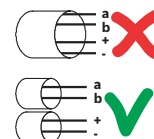
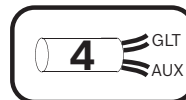
BCM-0000-B
LSN 0300 A
LSN 1500 A





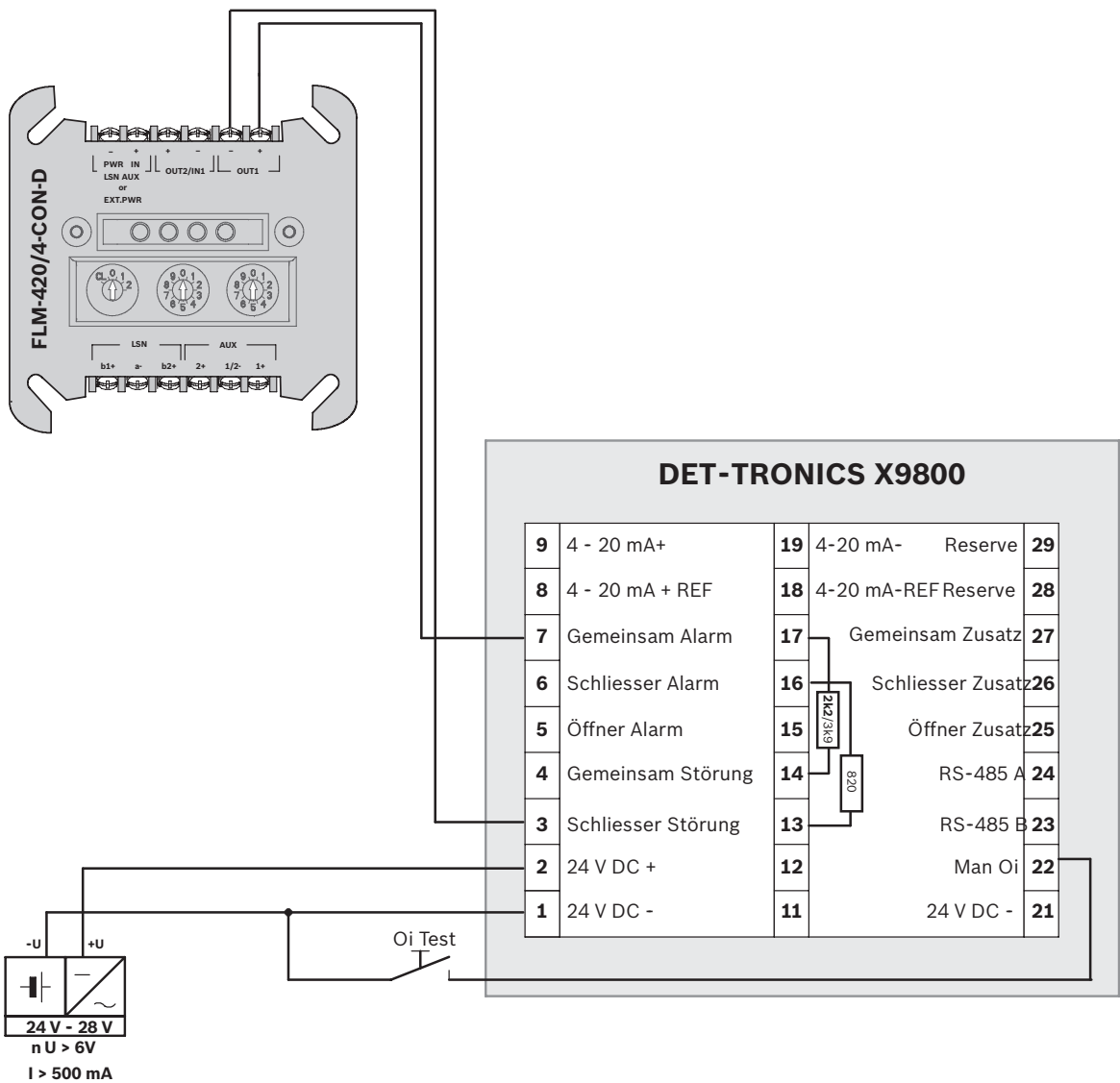
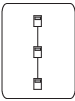


DC1192, SB3
OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex/DT1102A-Ex
DF1101-Ex
DM1103B-Ex



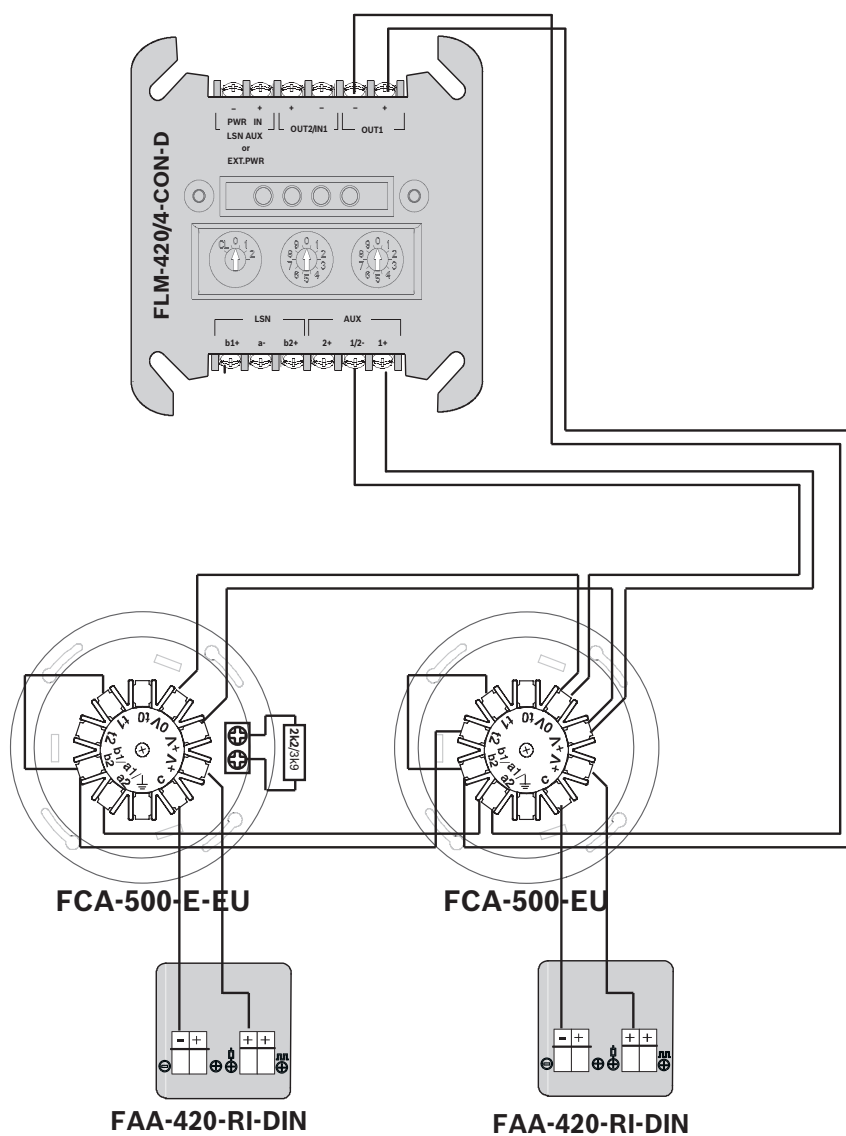


DET-TRONICS X9800



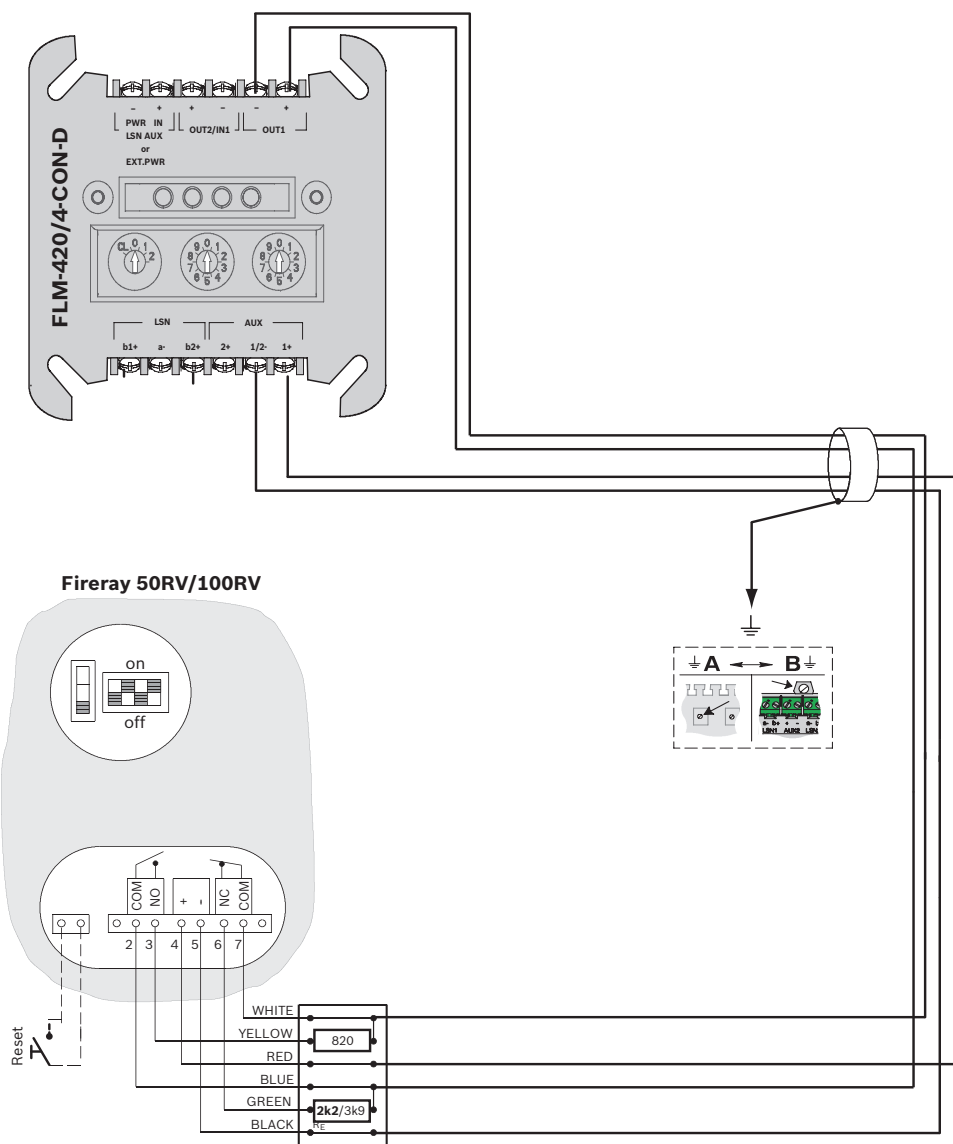


FCP-500





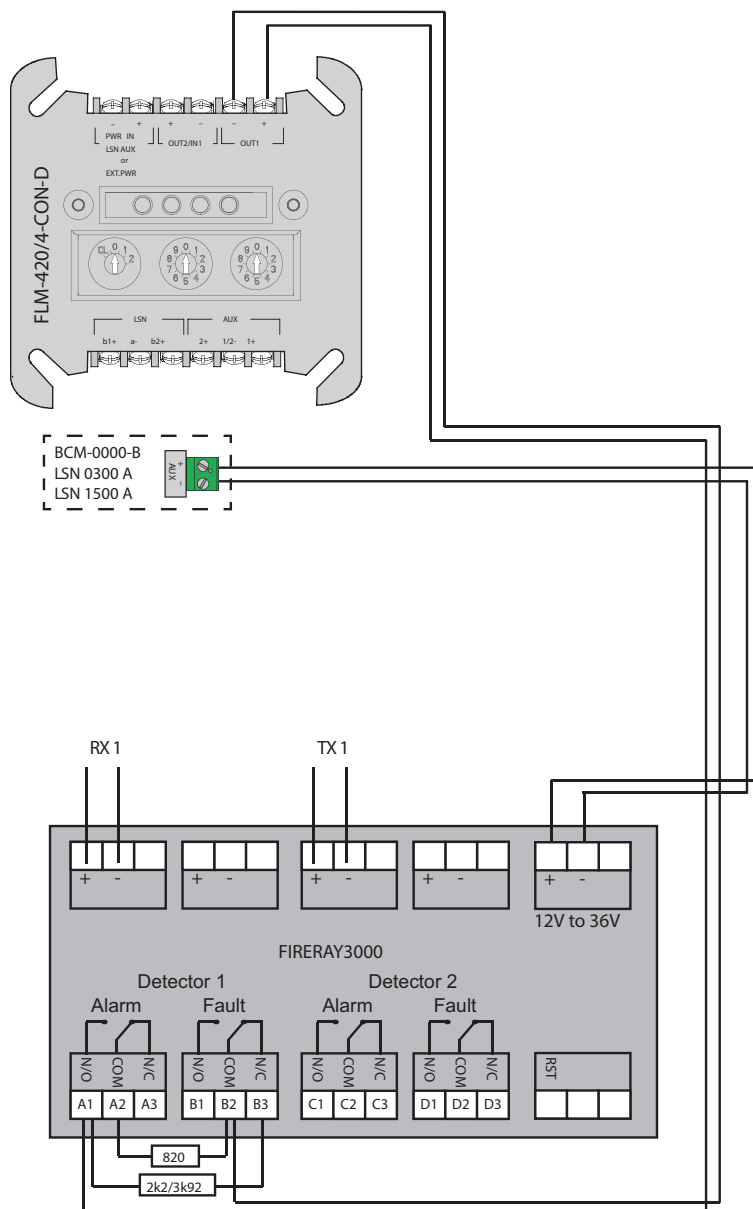
Fireray 50RV
Fireray 100RV





FIRERAY3000

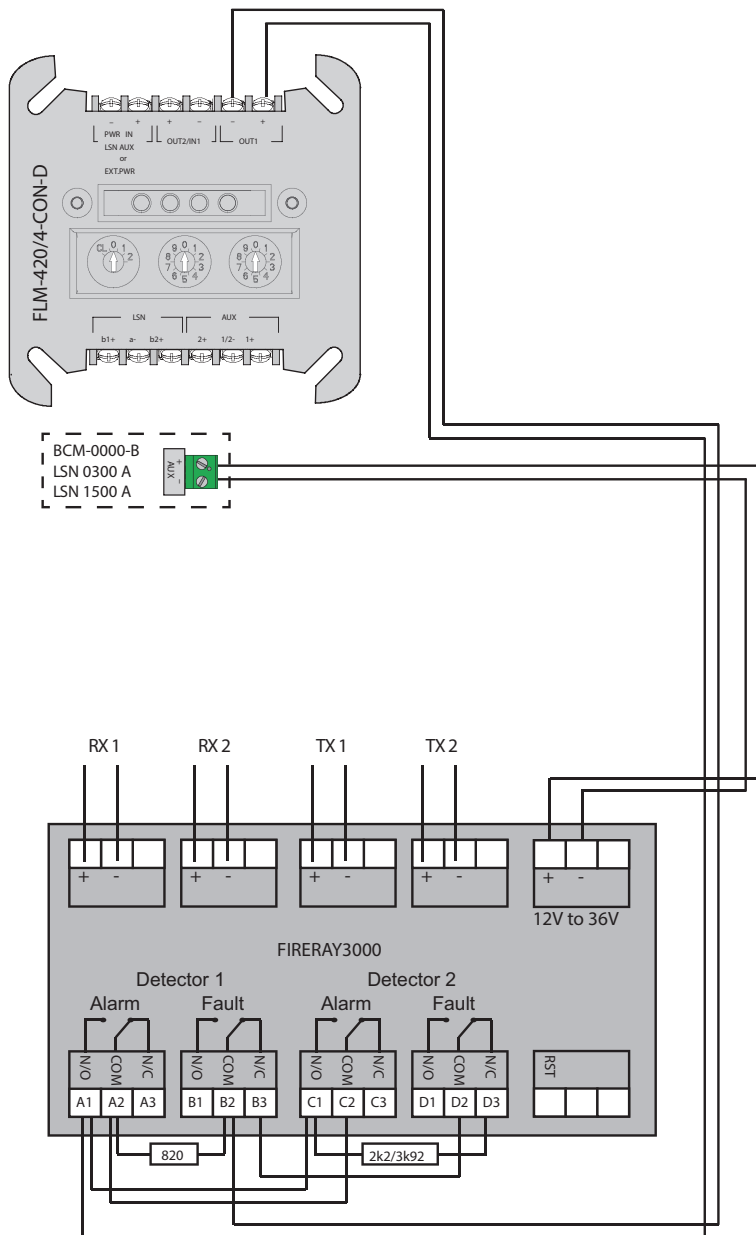
1 x





FIRERAY3000

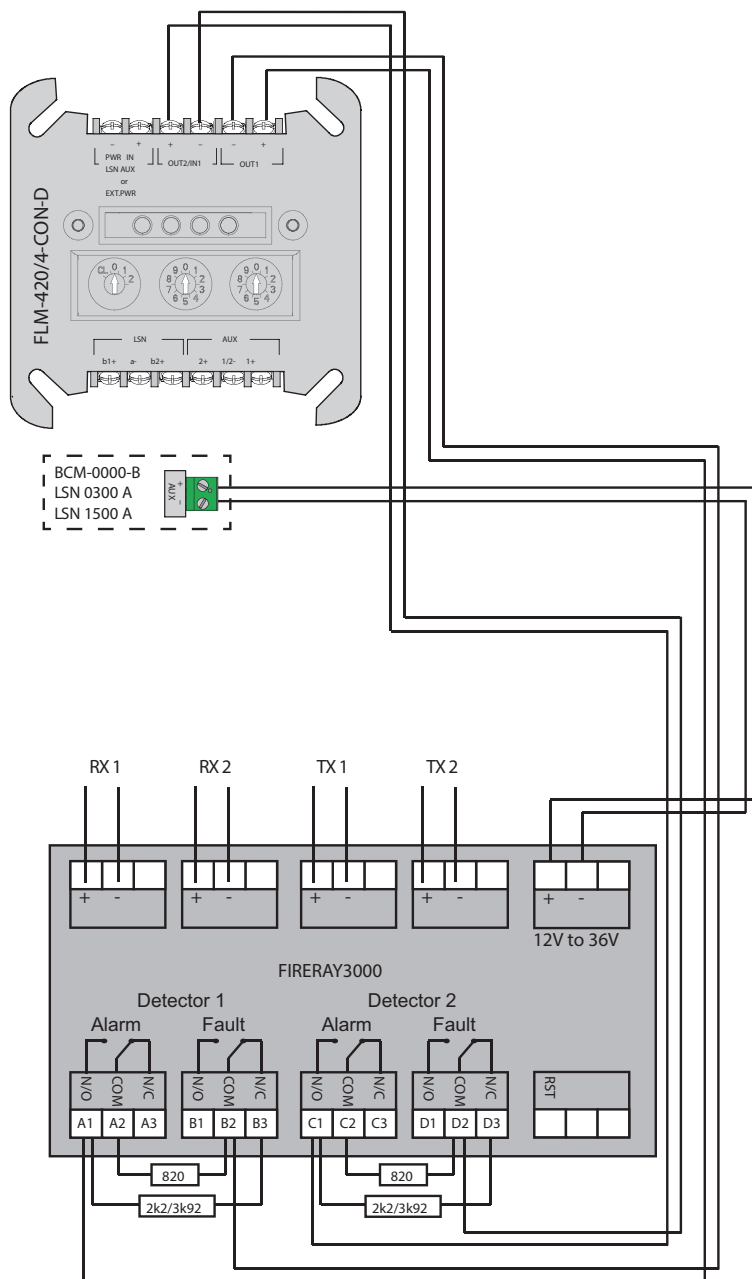
2 x  1





FIRERAY3000

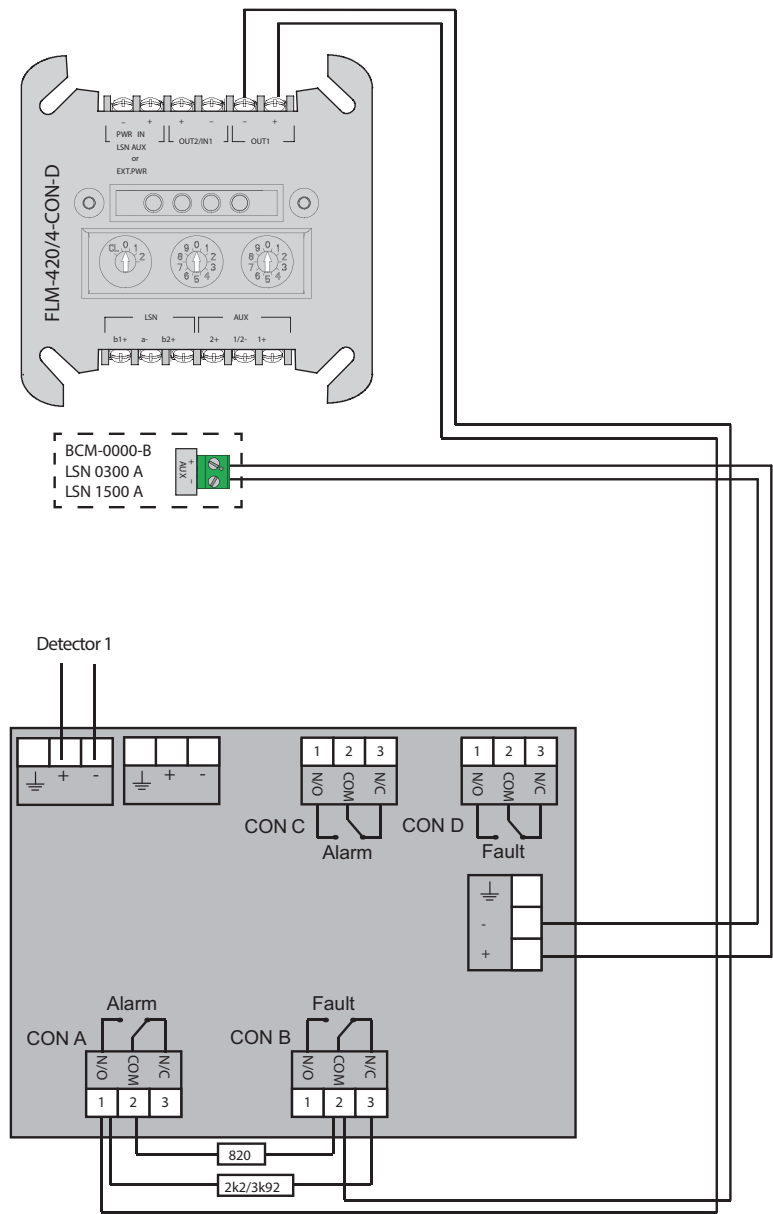
2 x 1+2





FIRERAY5000

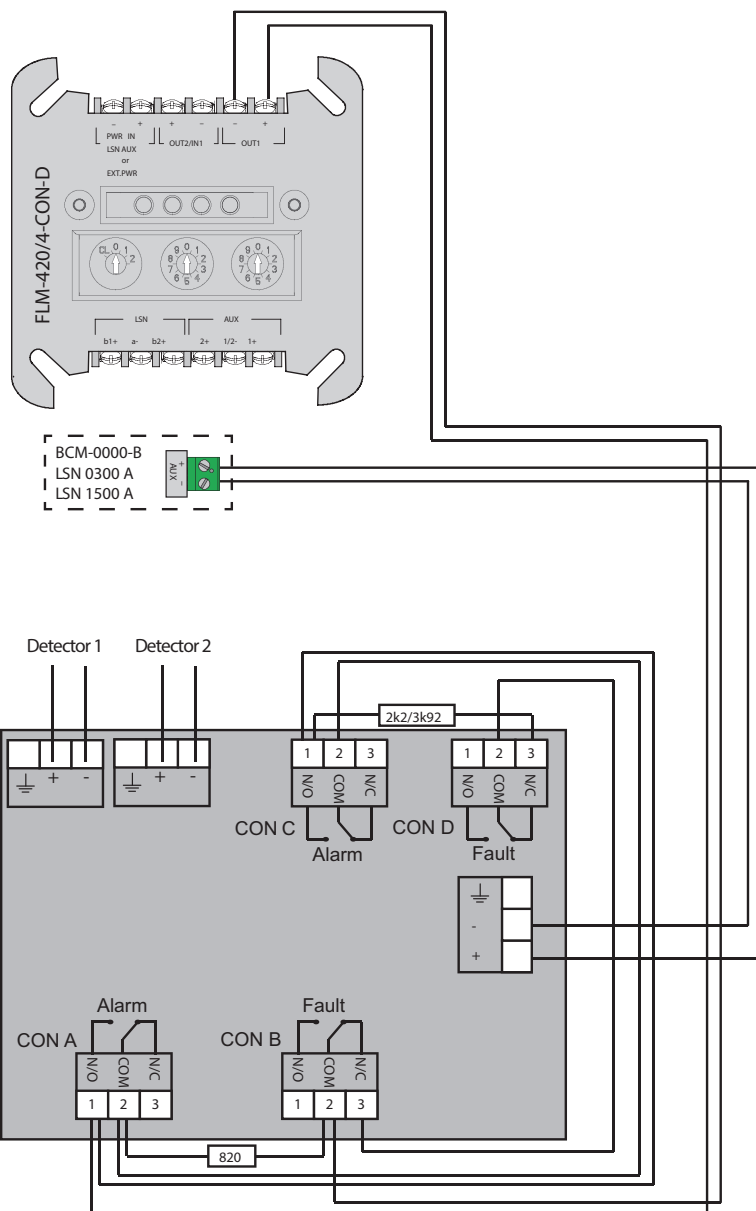
1 x





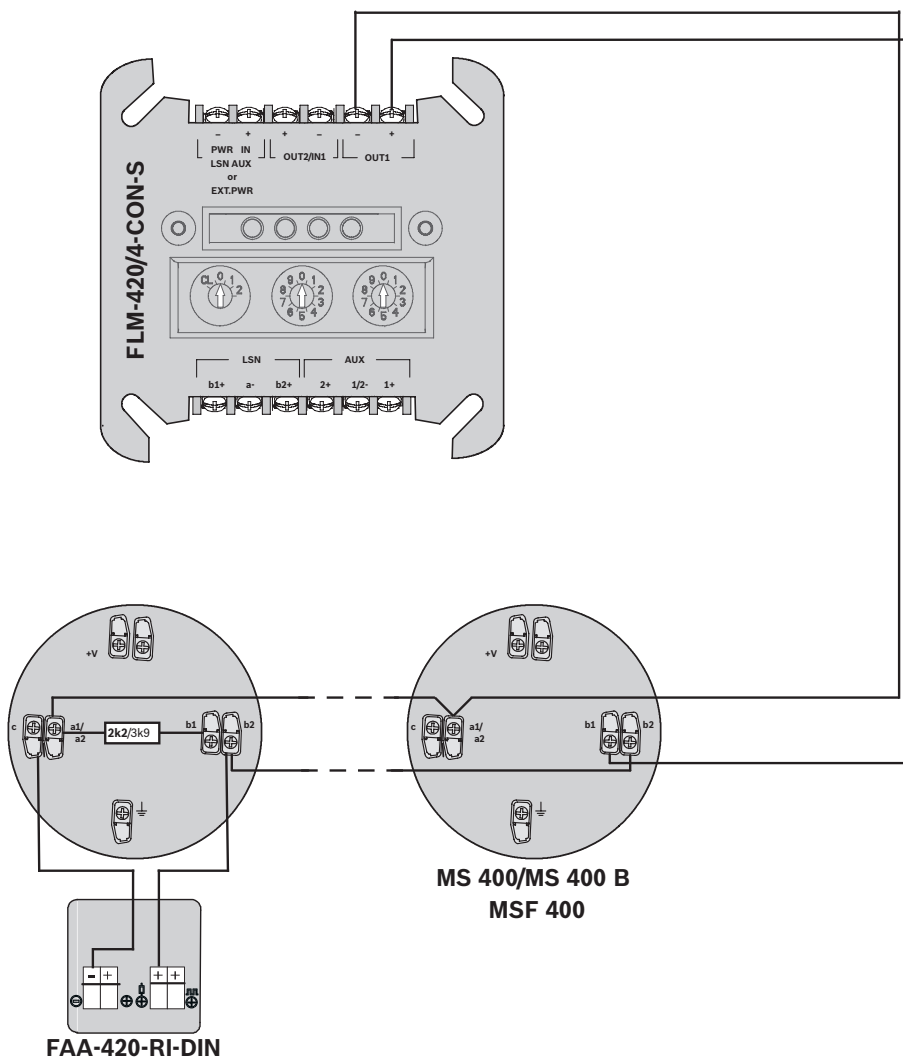
FIRERAY5000

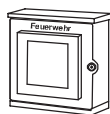
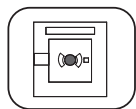
2 x OUT1



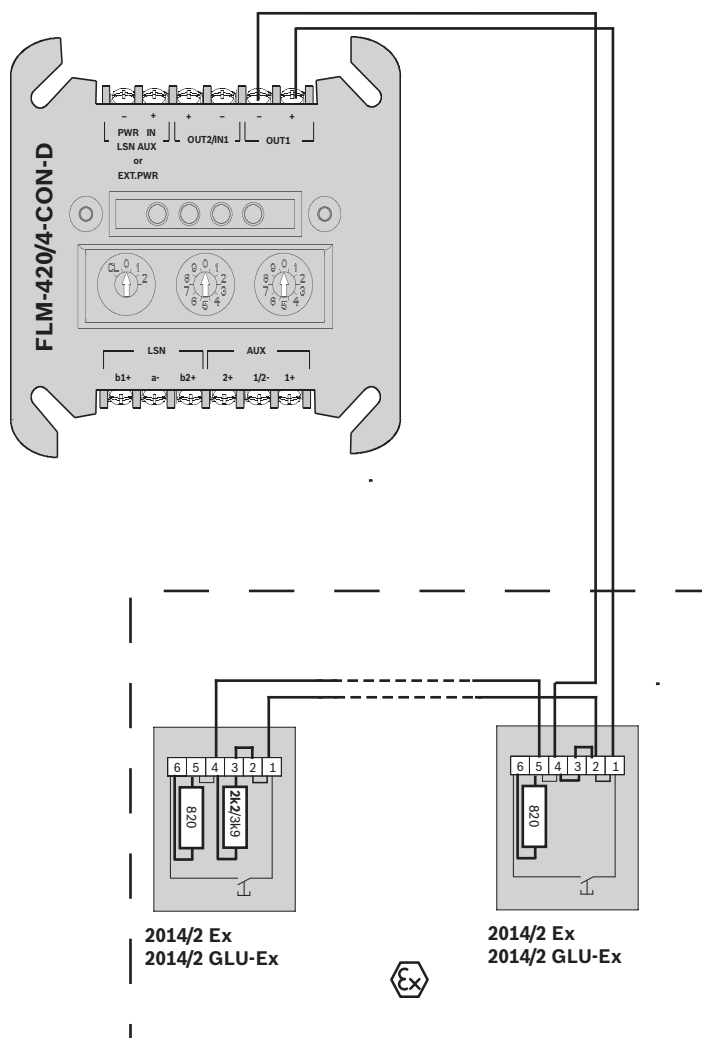
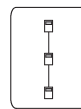


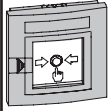
FAP-425-O/-O-R/-OT/-OT-R/-T-R
FAP-425-DO-R/-DOT-R/-DOTC-R
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FCP-OC320/-OC320-R470
FCP-OT320/-OT320-R470



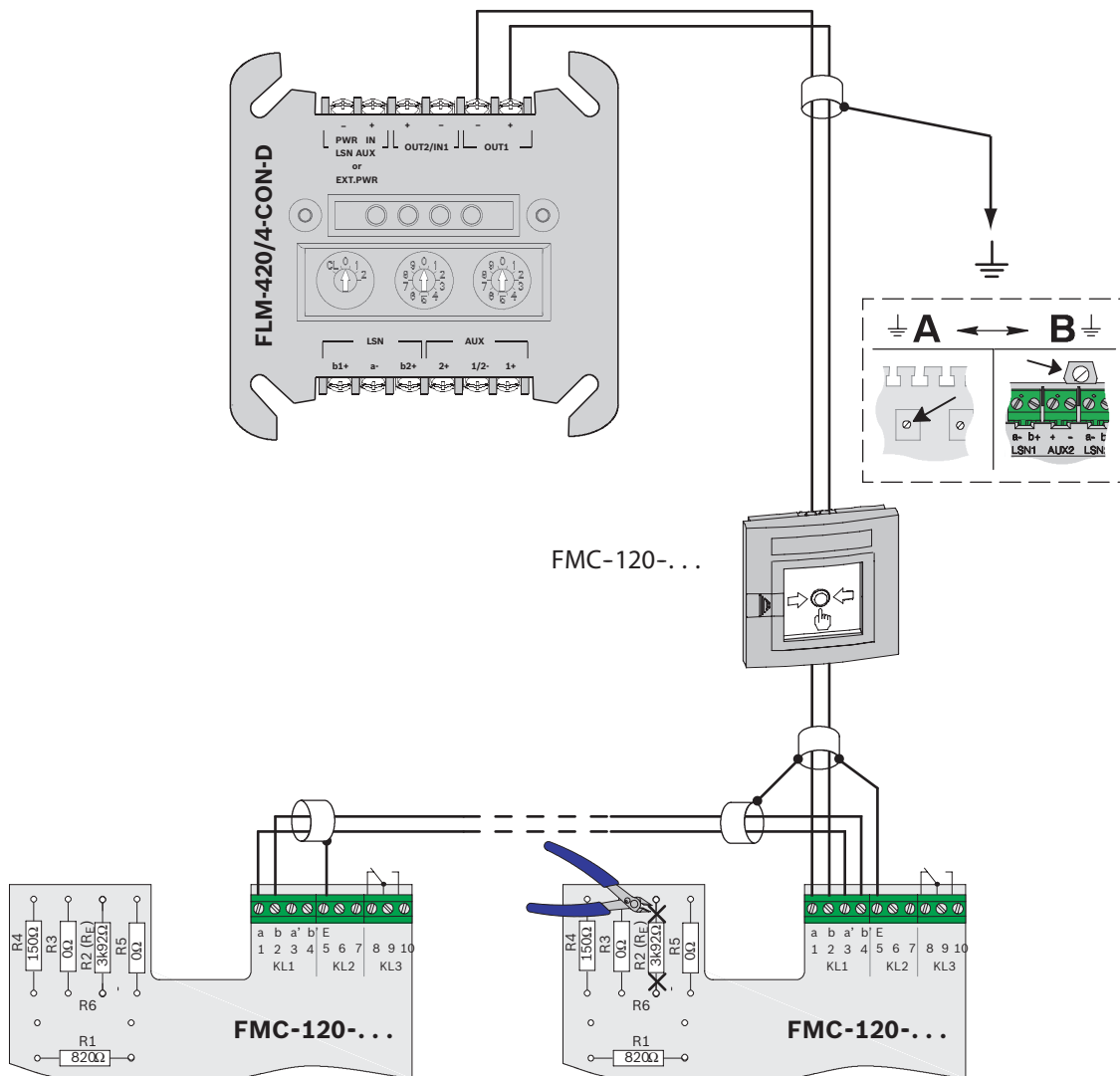
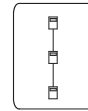


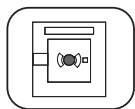
2014/2 Ex
2014/2 GLU-Ex



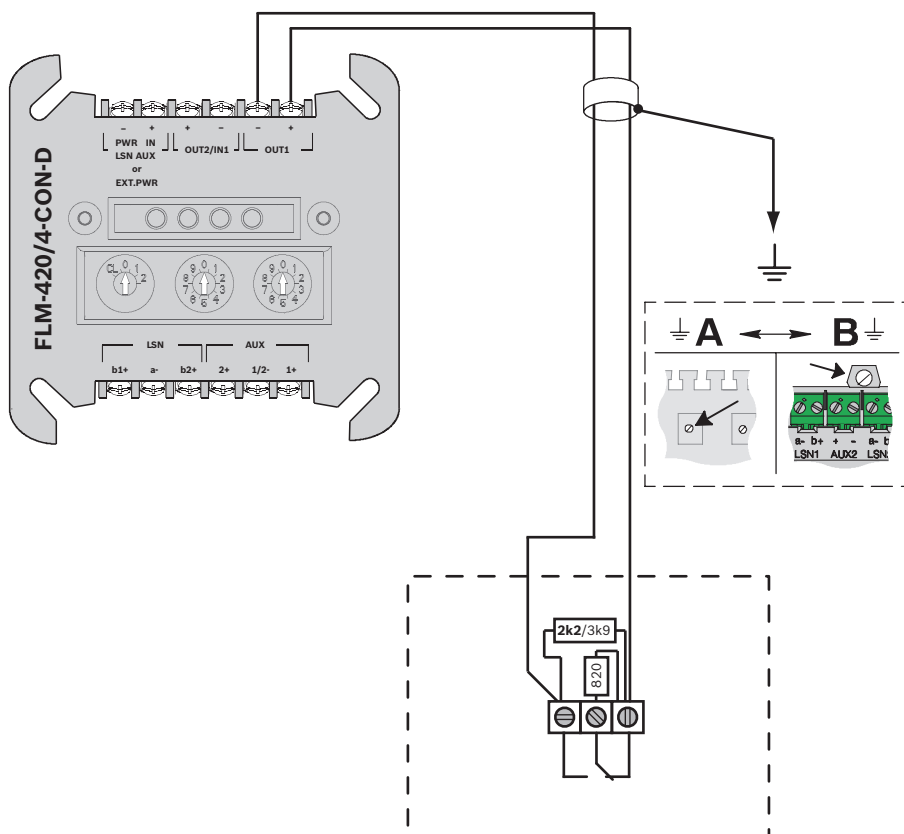
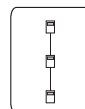


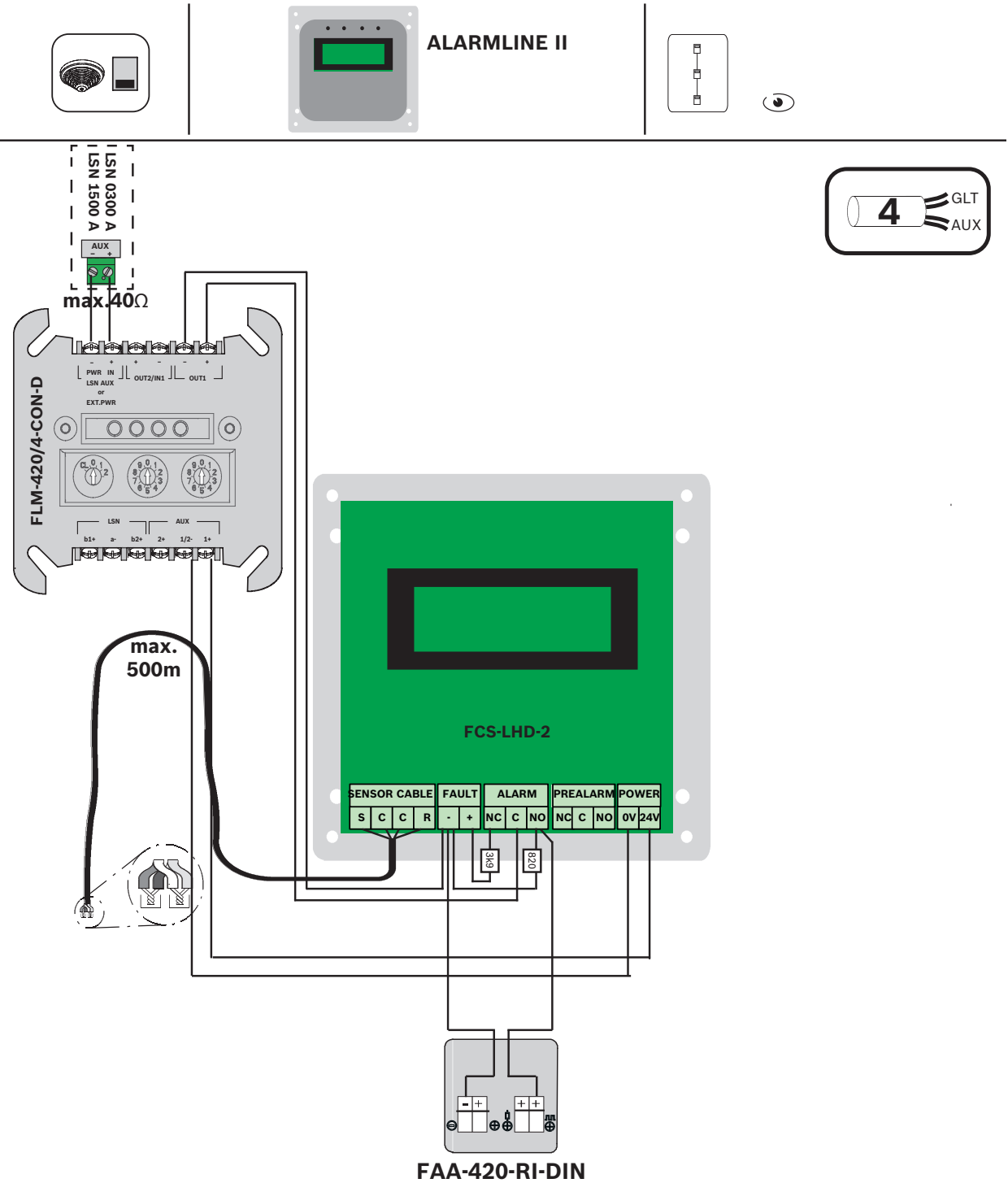
FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
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FMC-120-DKM-H-B

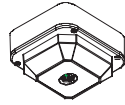




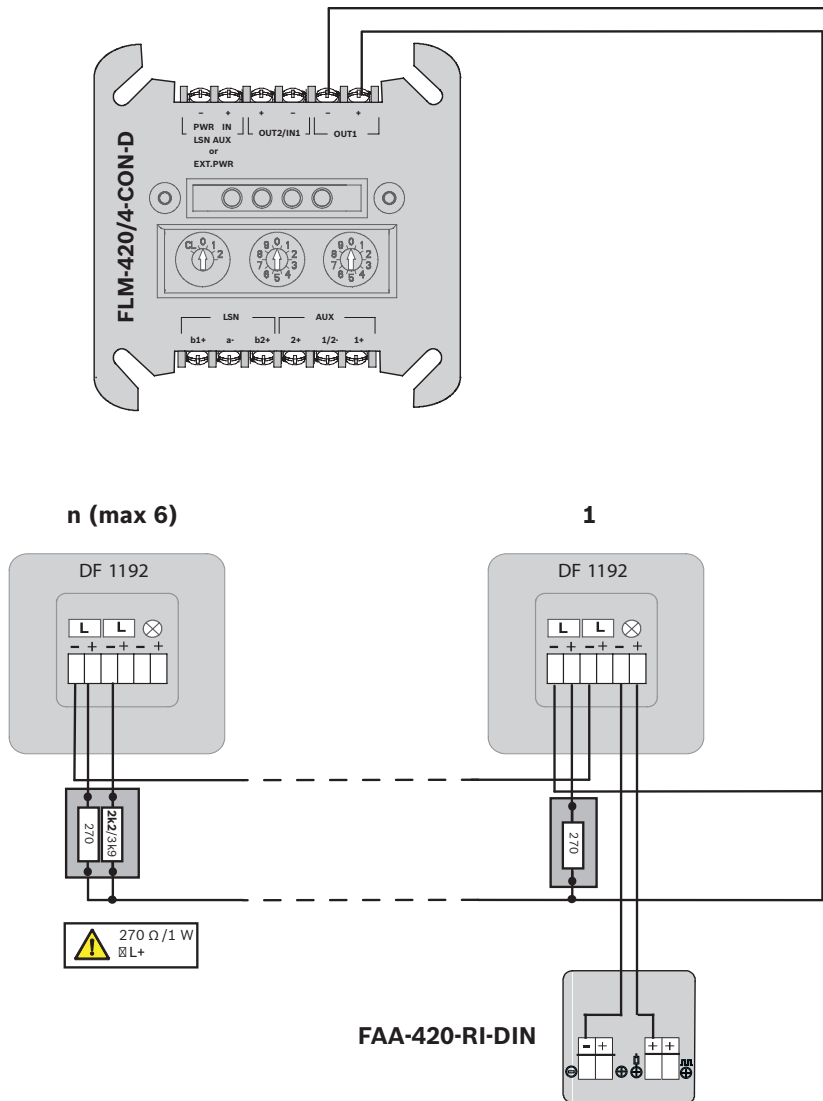
— / — NO





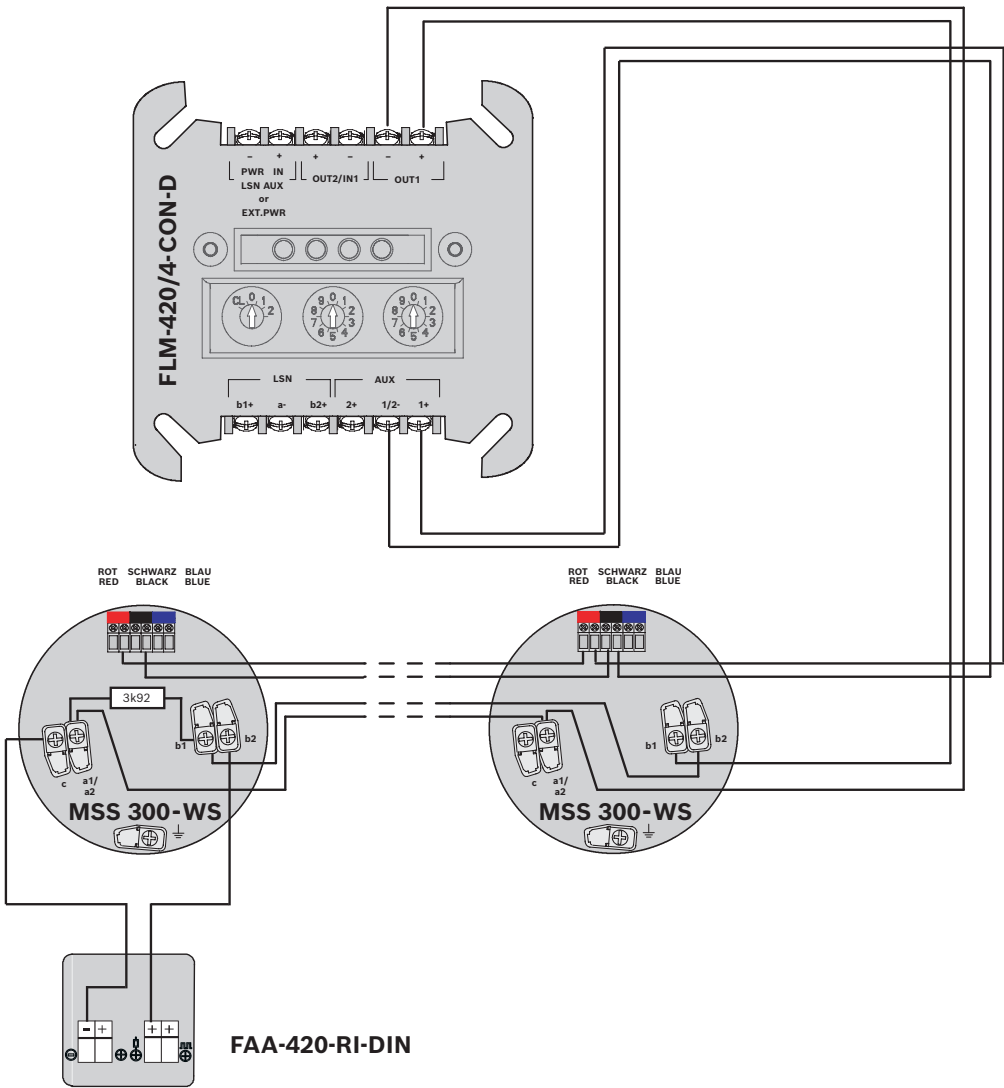


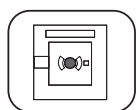
DF 1192



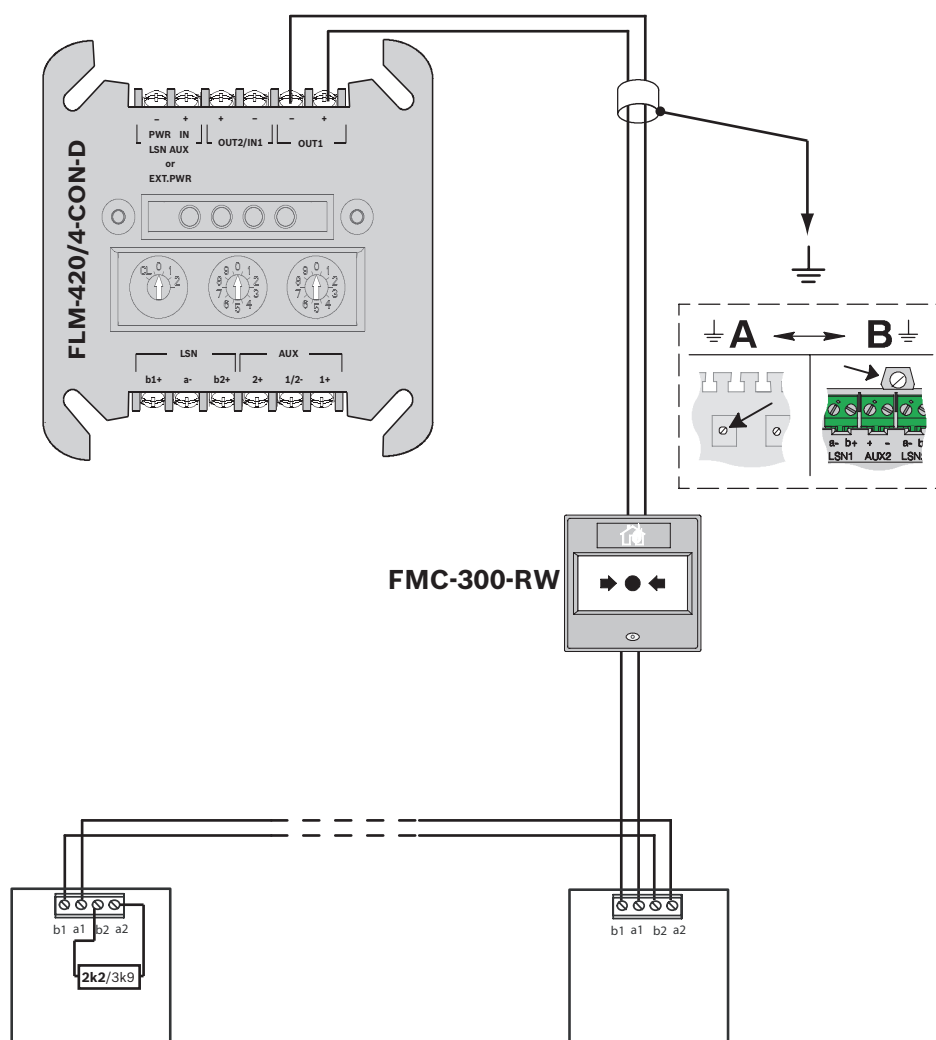
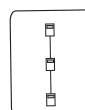


MSS 300-WS



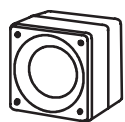


FMC-300-RW

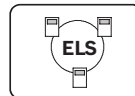


3.4.2

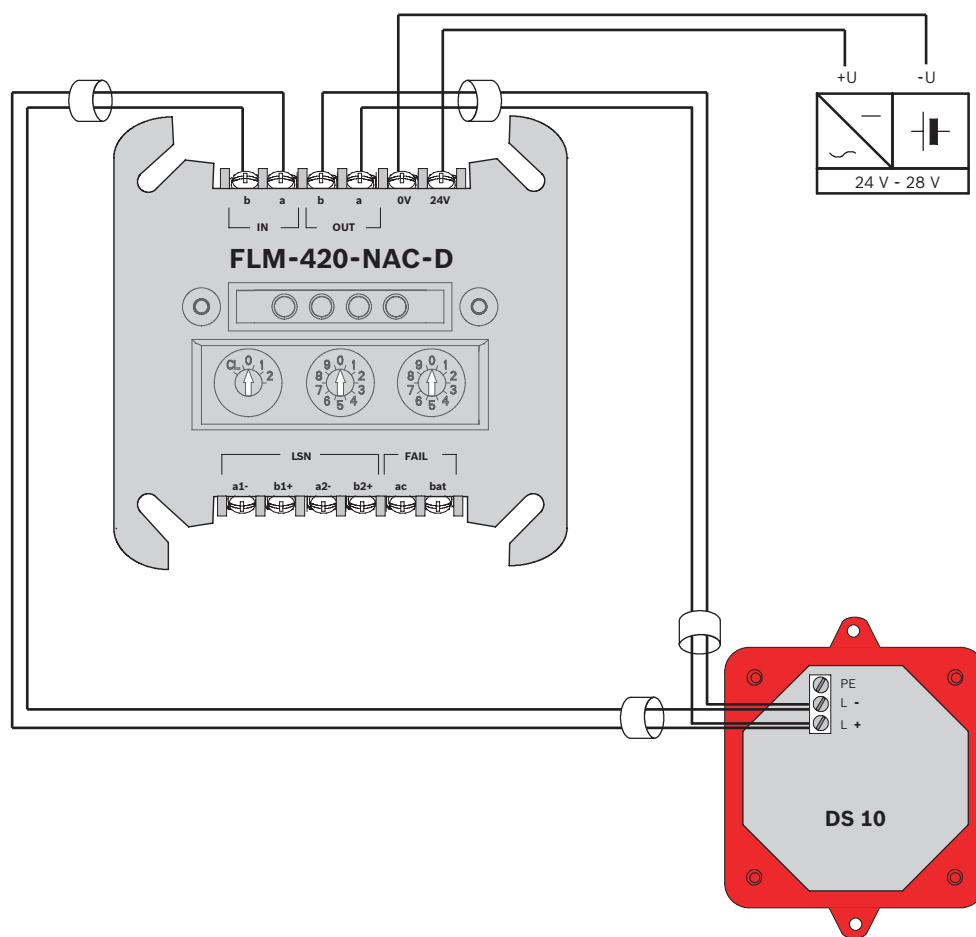
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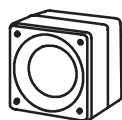


DS 10

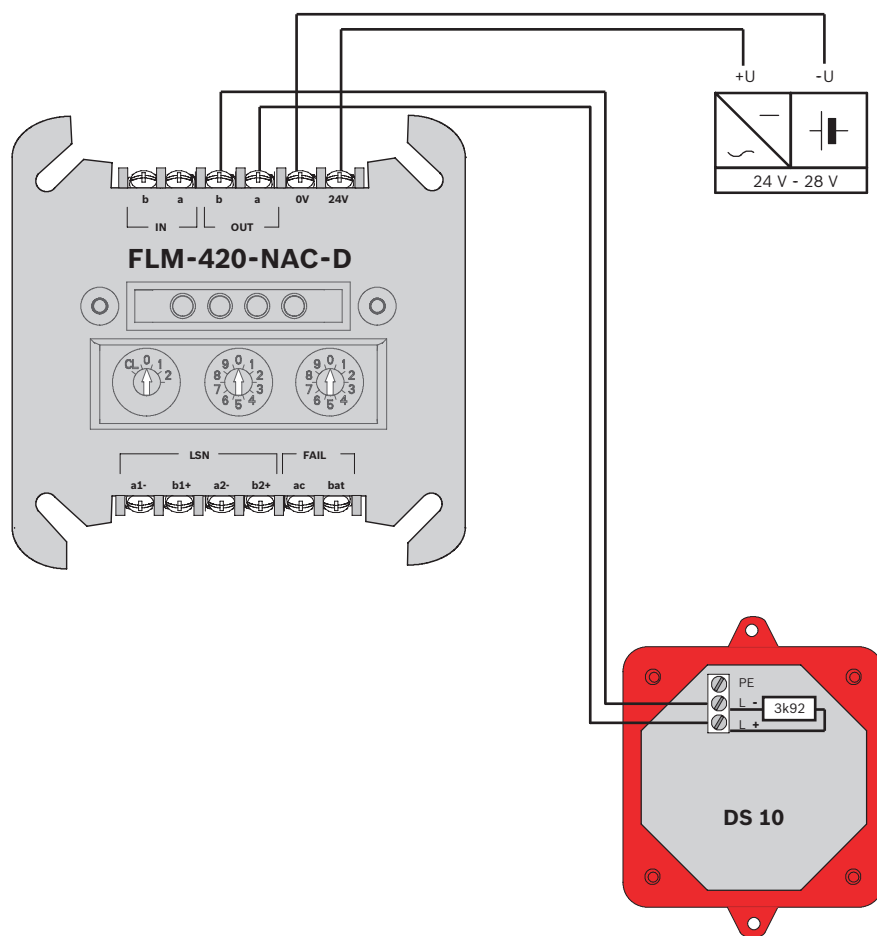
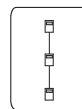


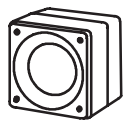
VdS 2489



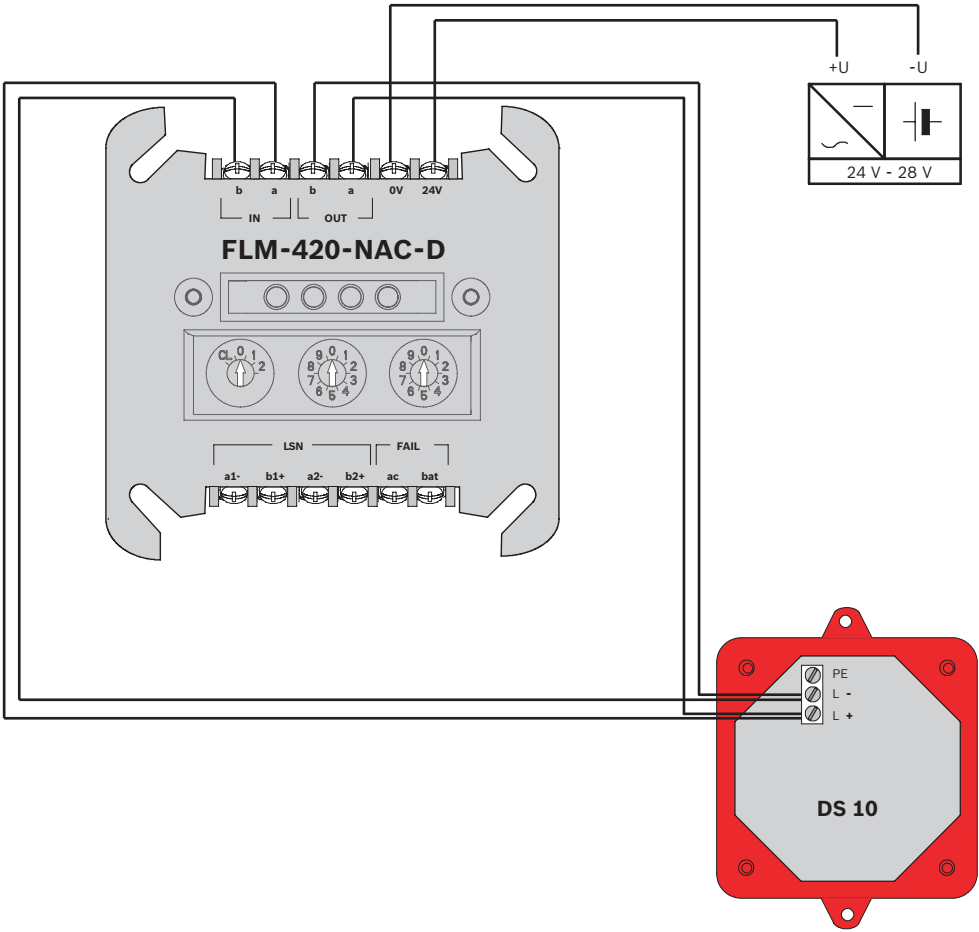
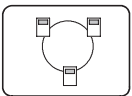


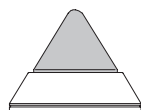
DS 10



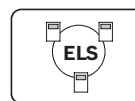


DS 10

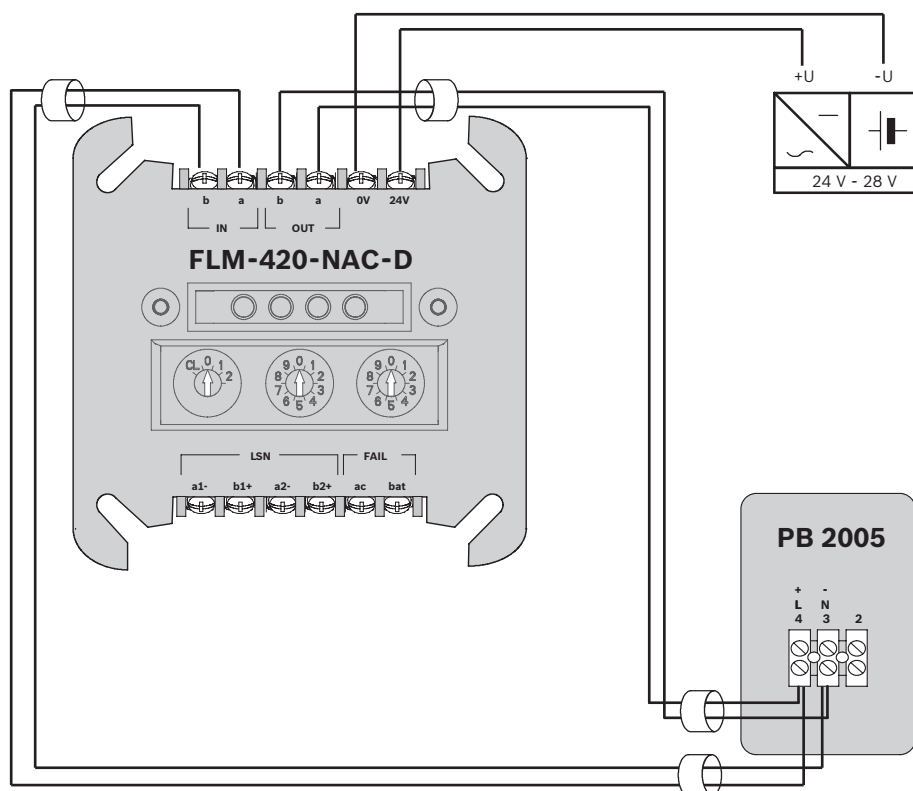




PB 2005

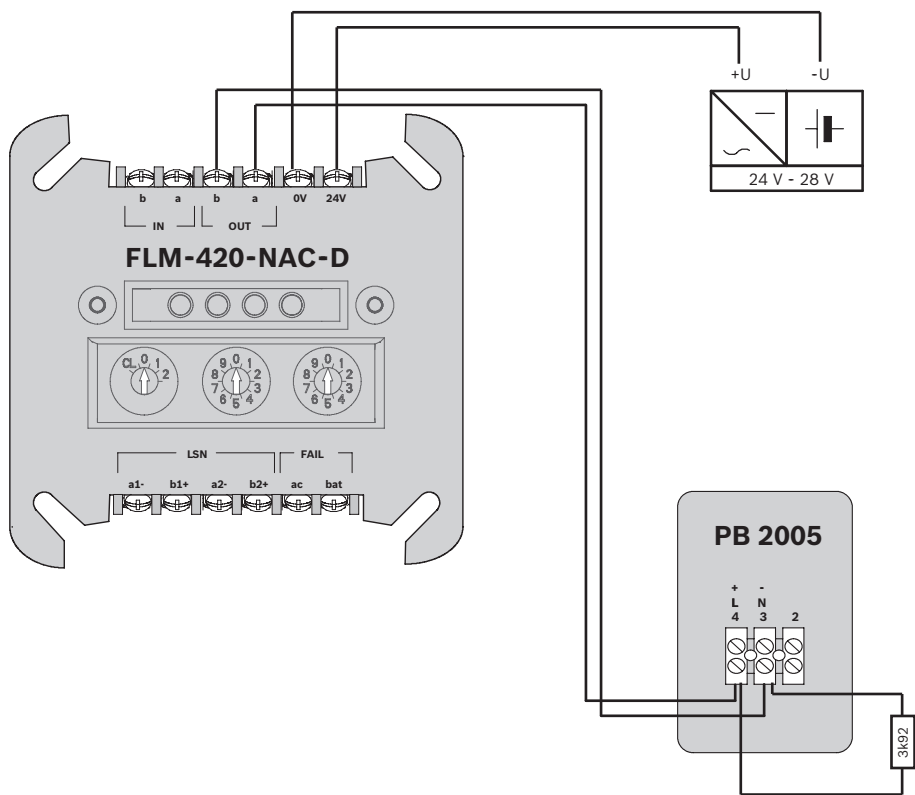
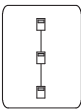


VdS 2489



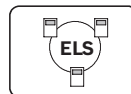


PB 2005

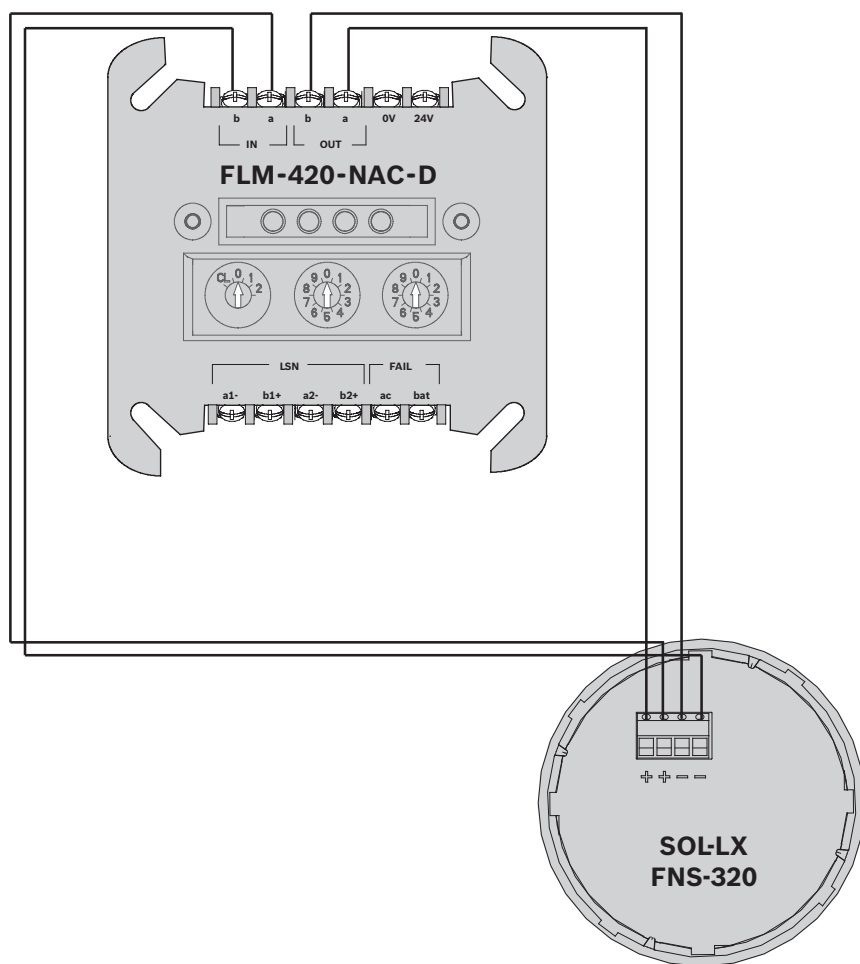




**SOL-LX
FNS-320**

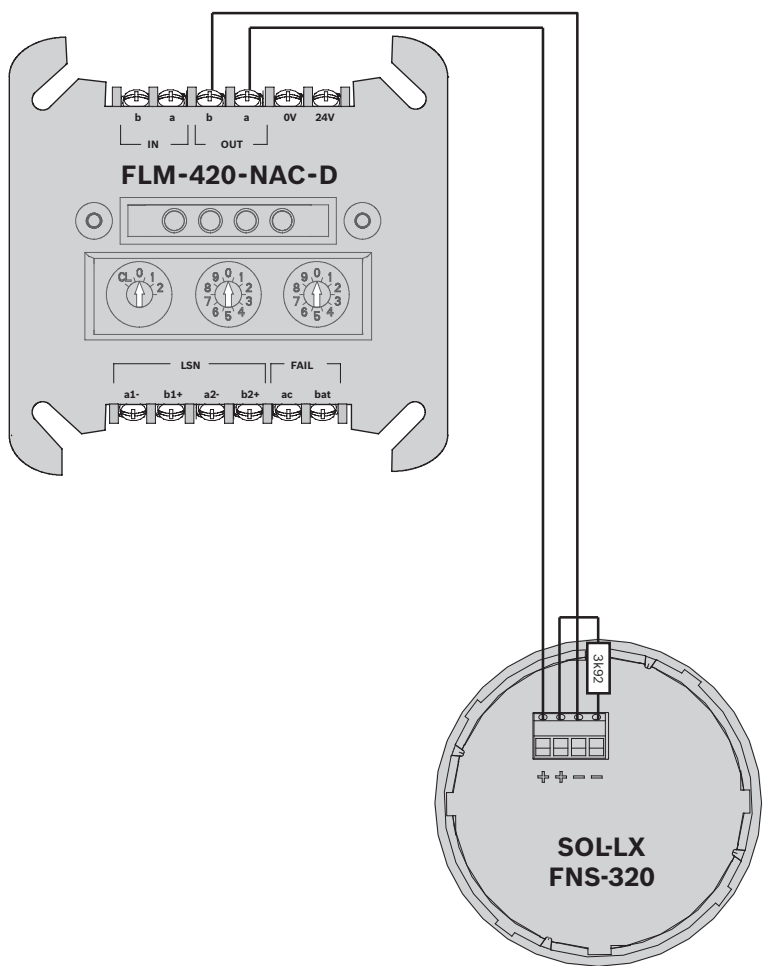
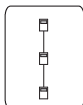


VdS 2489



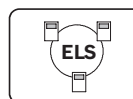


**SOL-LX
FNS-320**

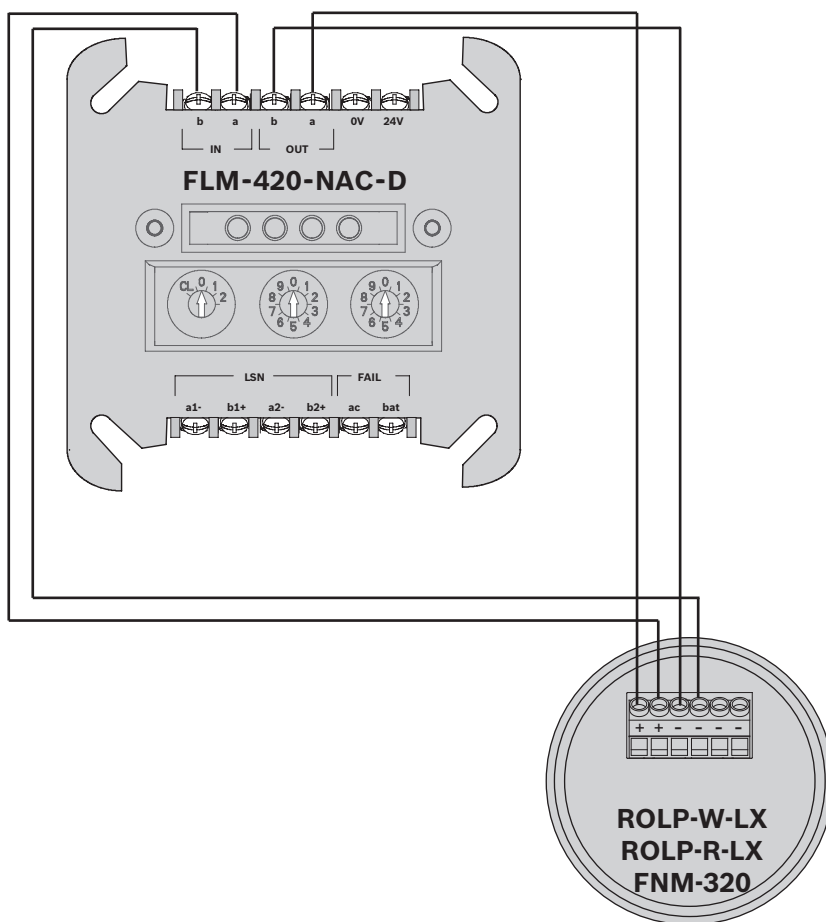




ROLP-W-LX
ROLP-R-LX
FNM-320

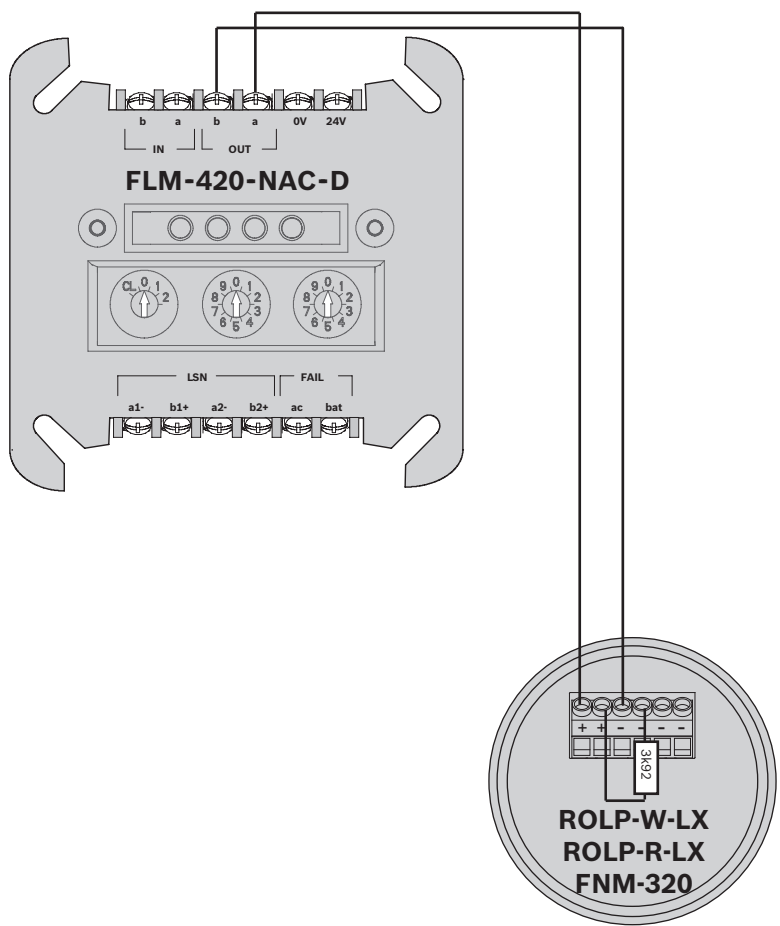
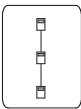


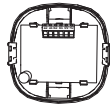
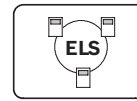
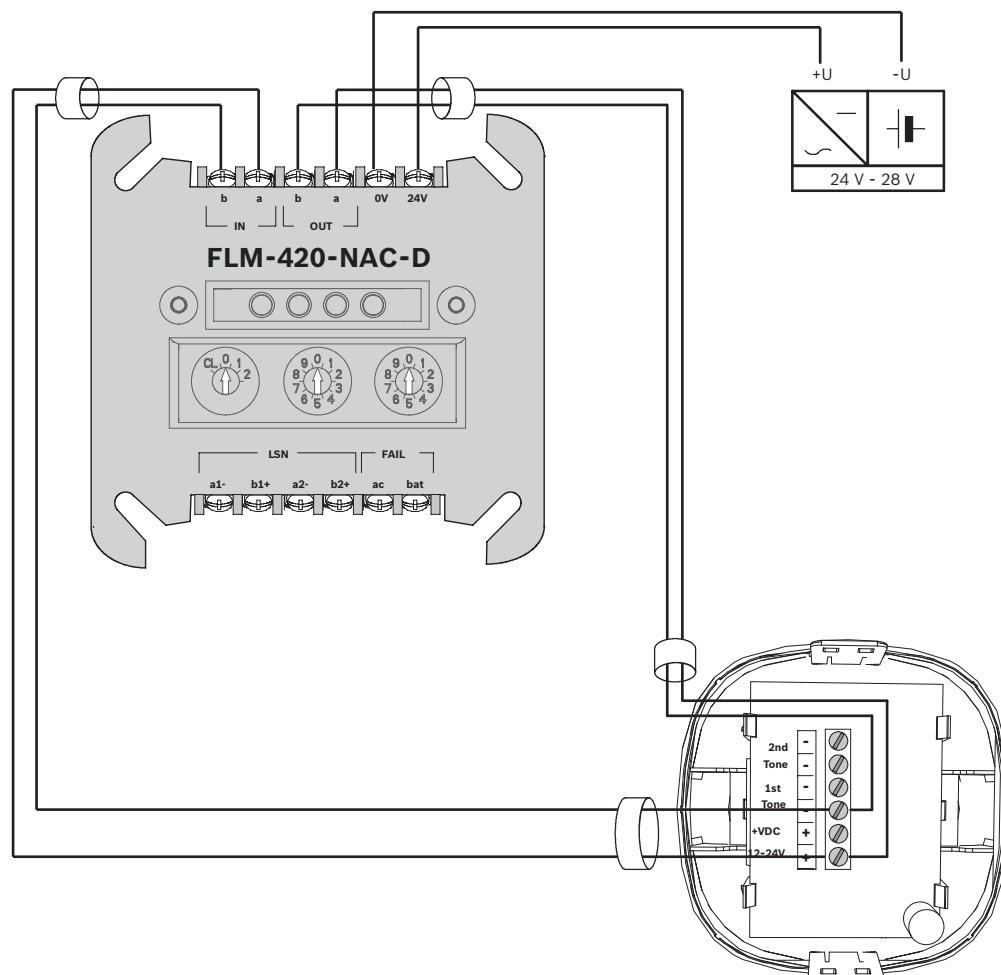
VdS 2489

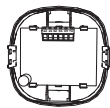




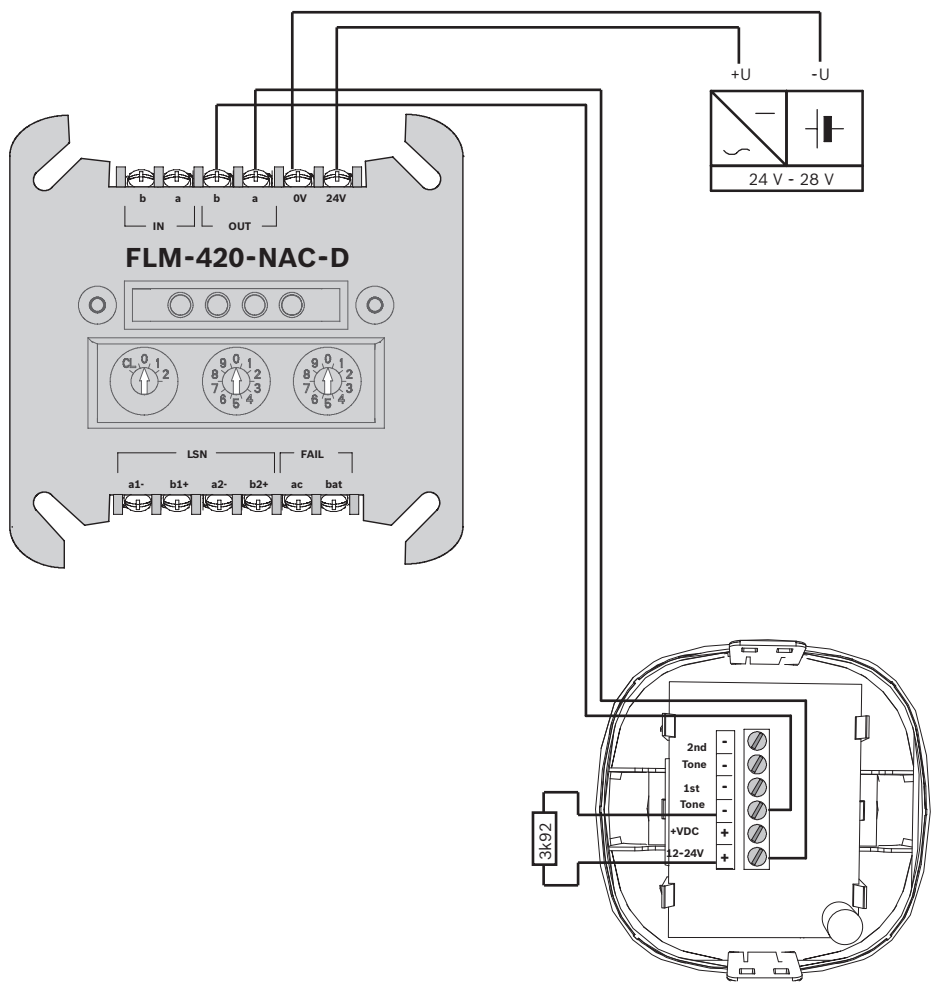
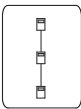
ROLP-W-LX
ROLP-R-LX
FNM-320

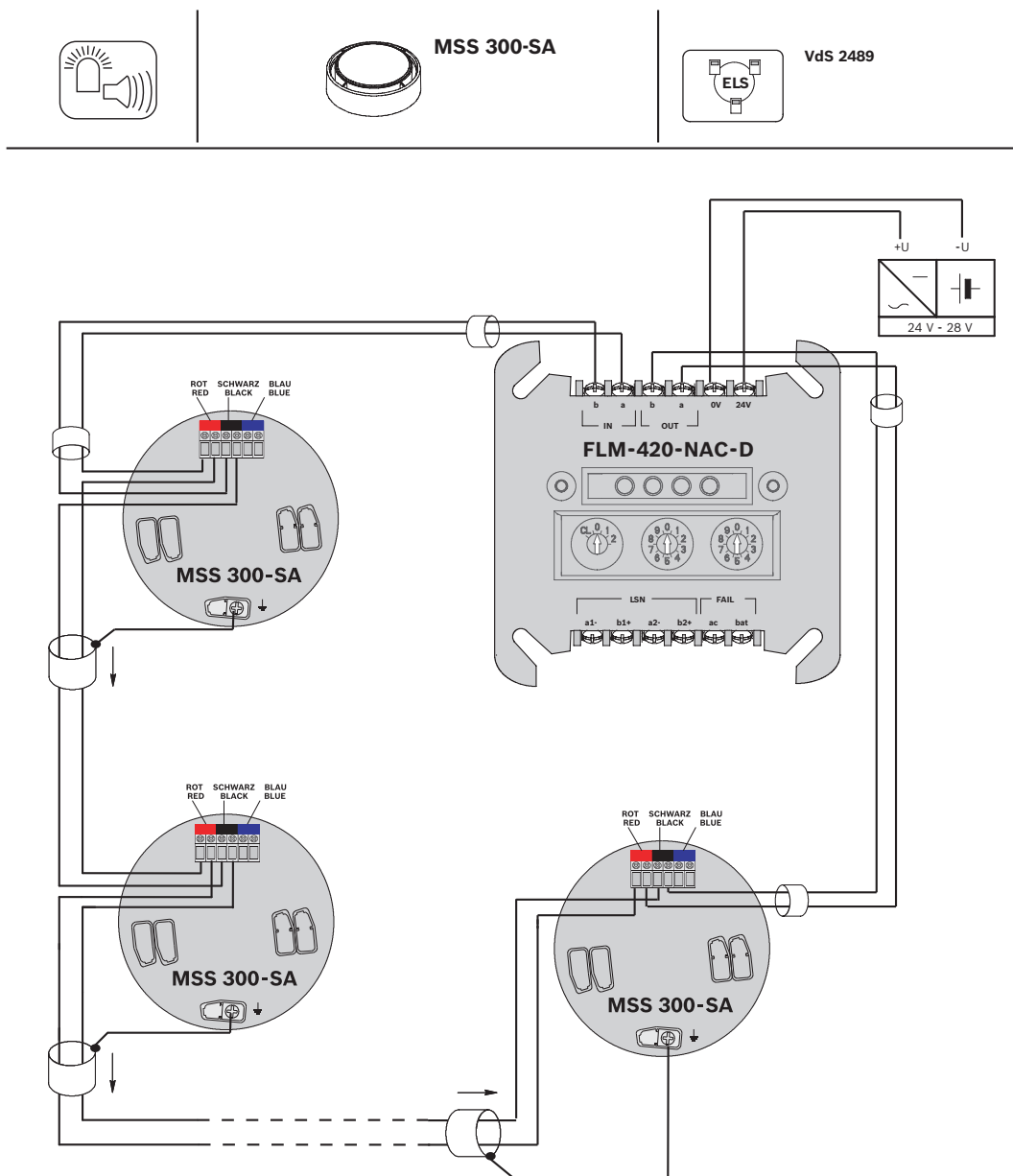


**FNM-320V-A / -B****VdS 2489**



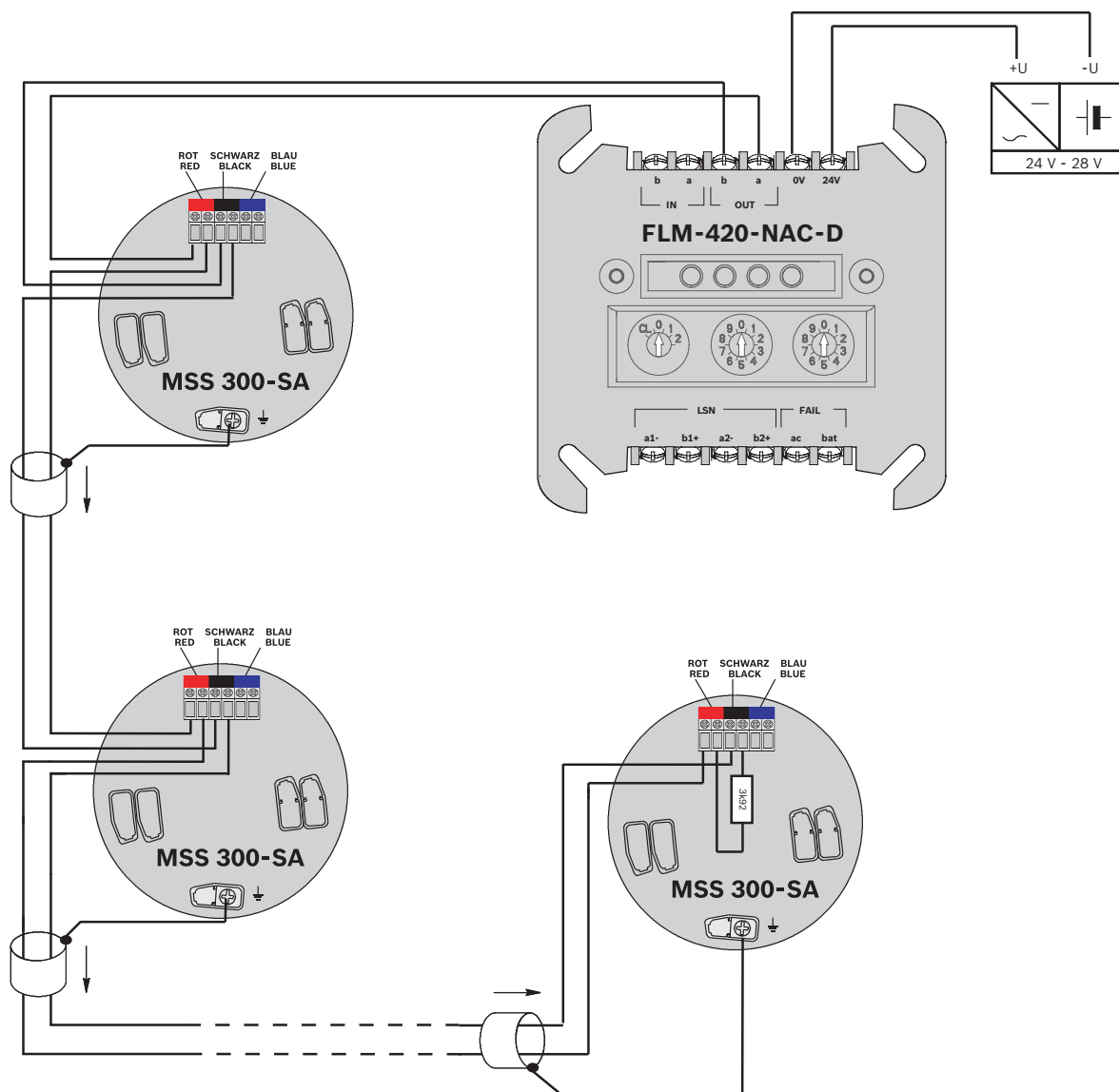
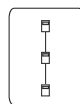
FNM-320V-A / -B







MSS 300-SA

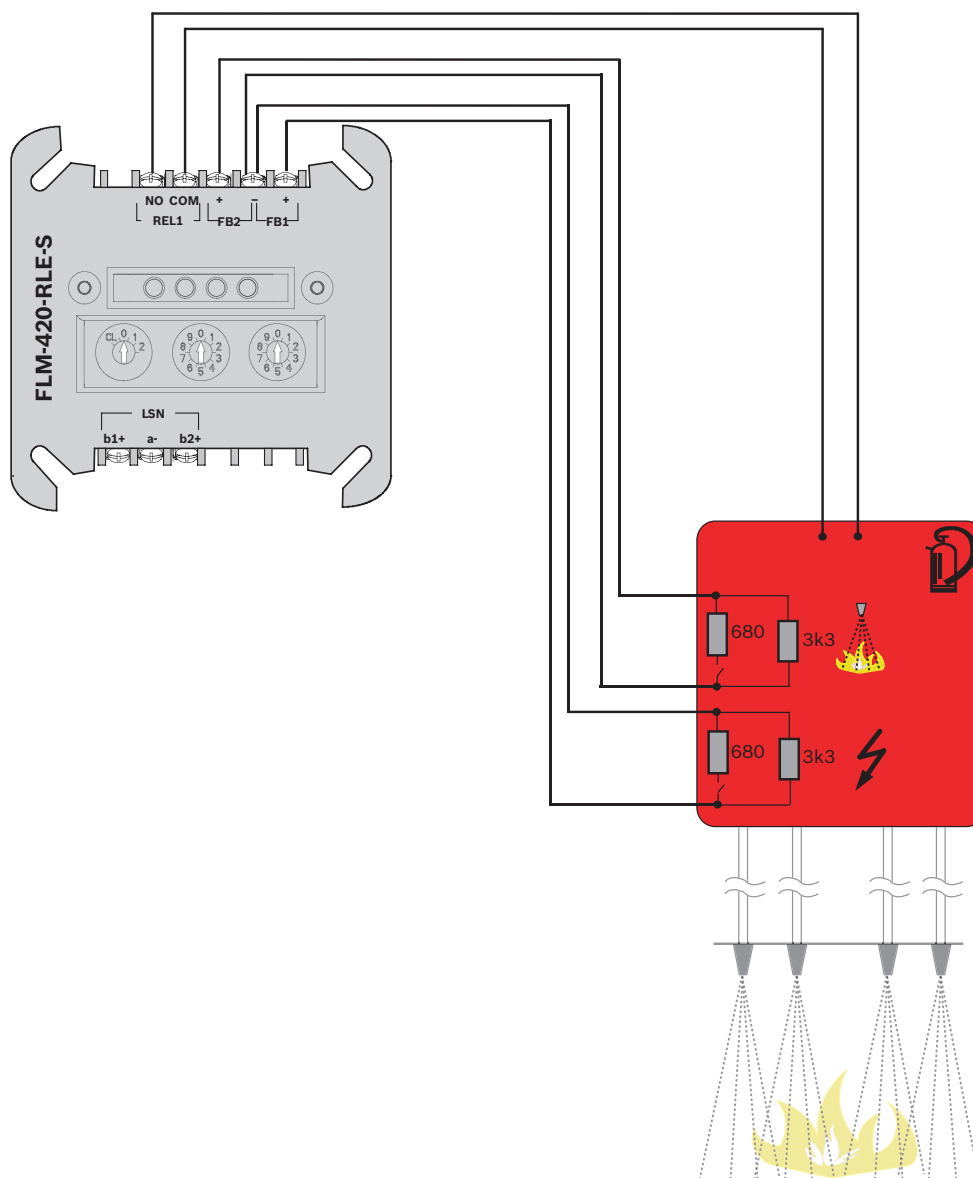


3.4.3

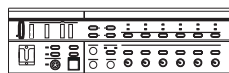
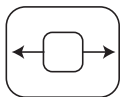
FLM-420-RLE-S



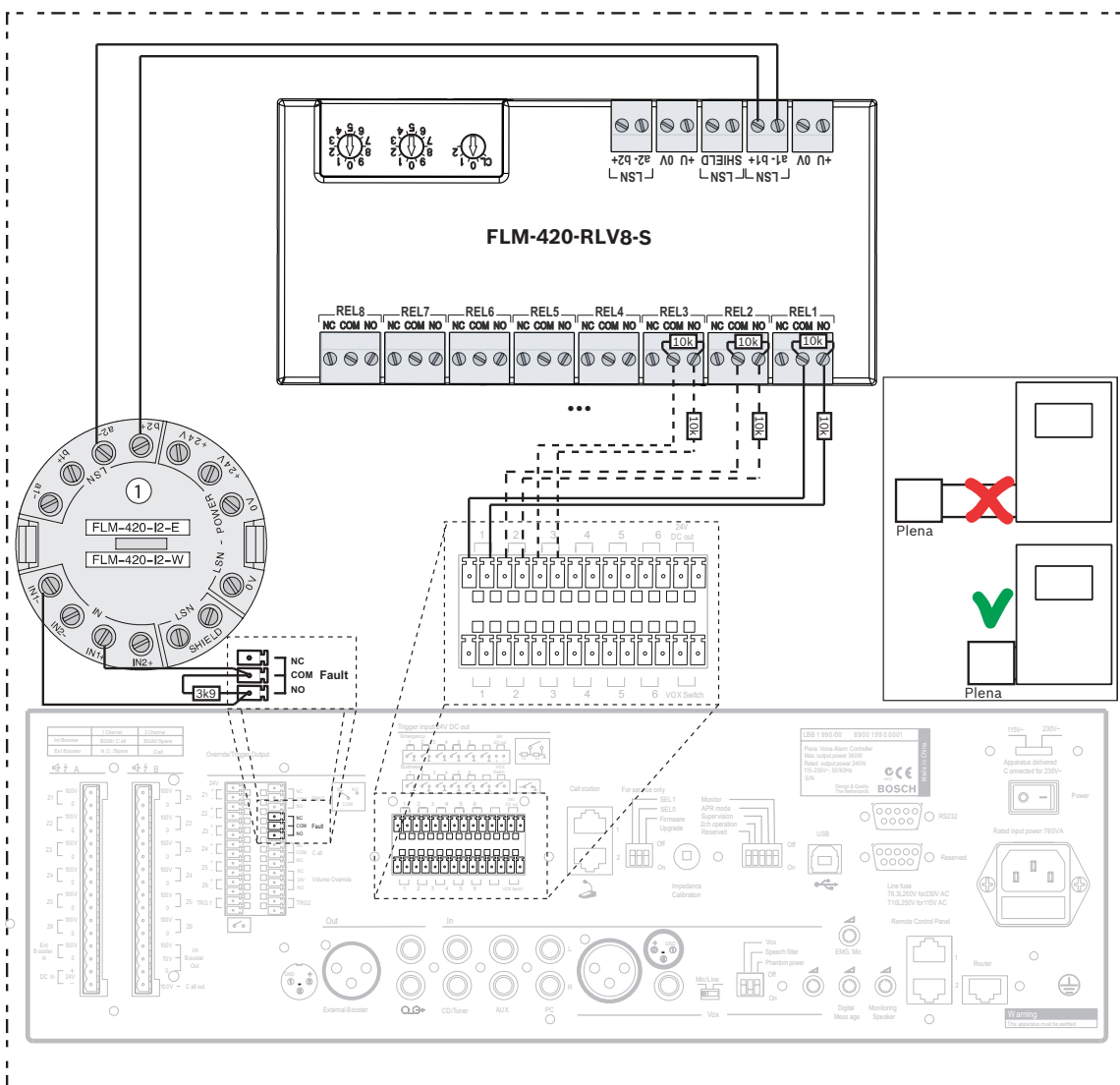
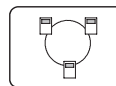
VdS 2496:2005-09



3.4.5 FLM-420-RLV8-S

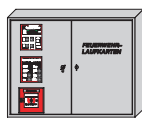


Plena



3.4.6

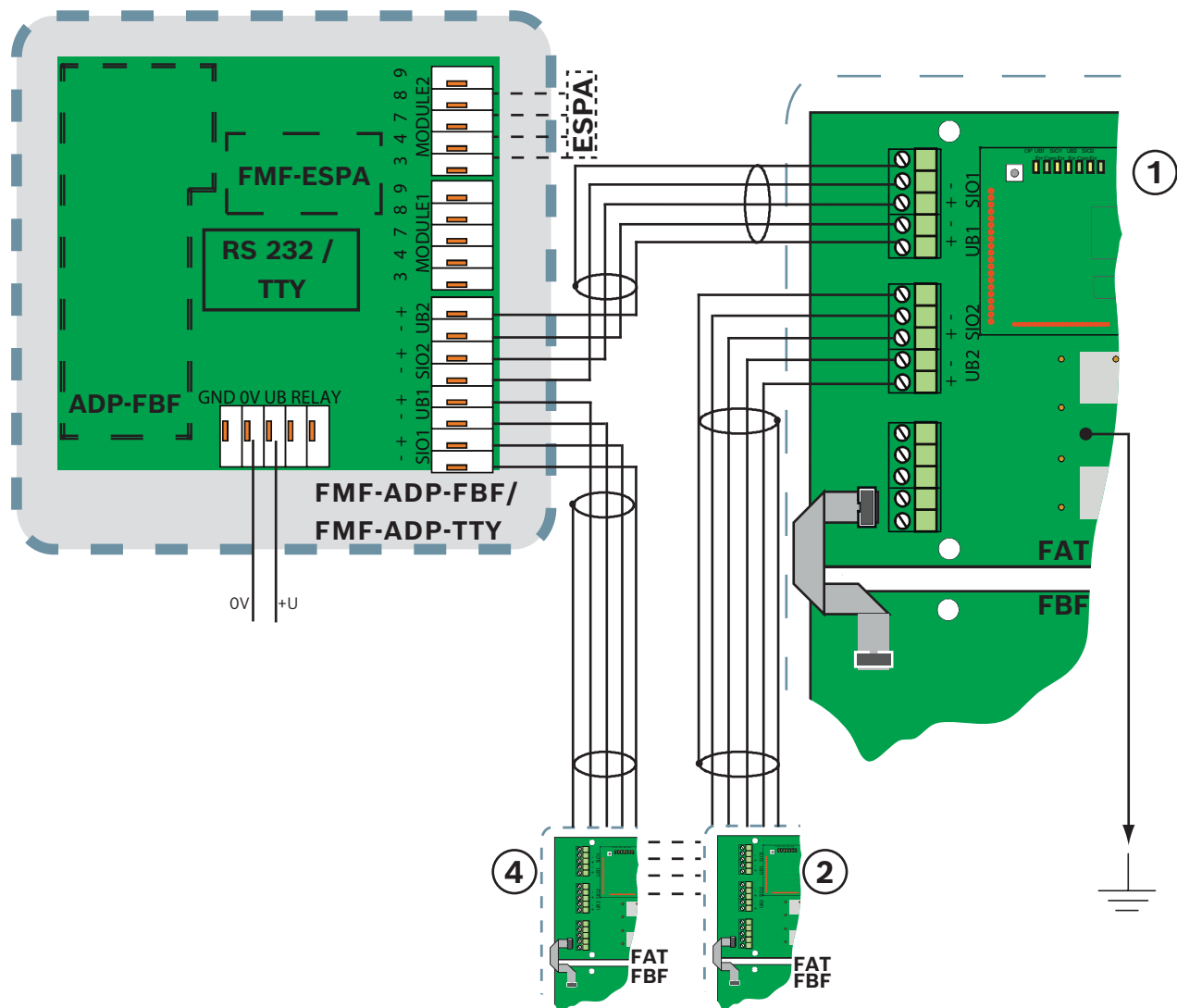
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FAT4000 FBF4000 ADP4000

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

ELS VdS 2489

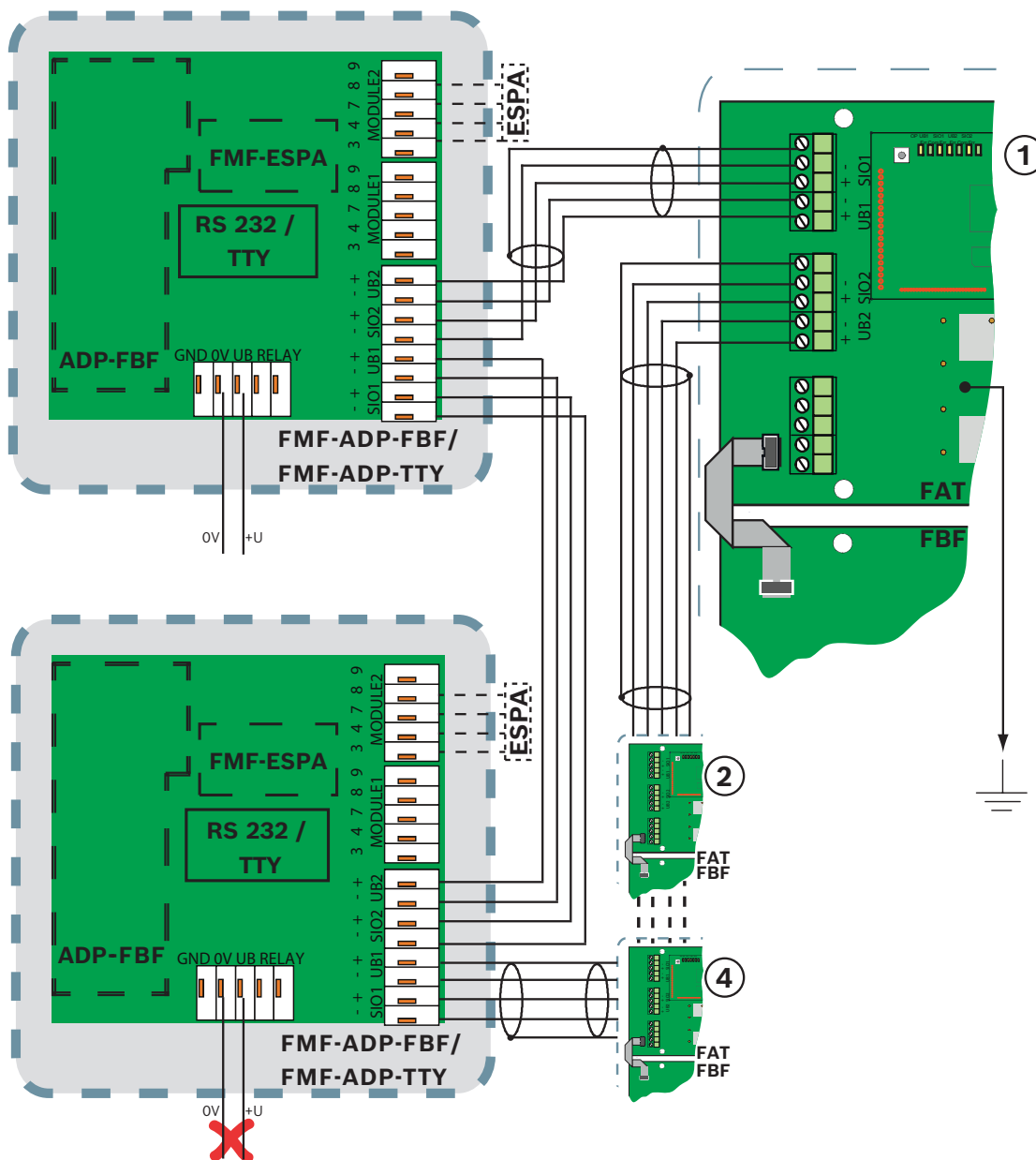




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



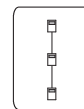
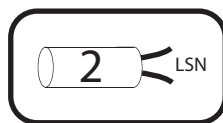
3.5

EOL



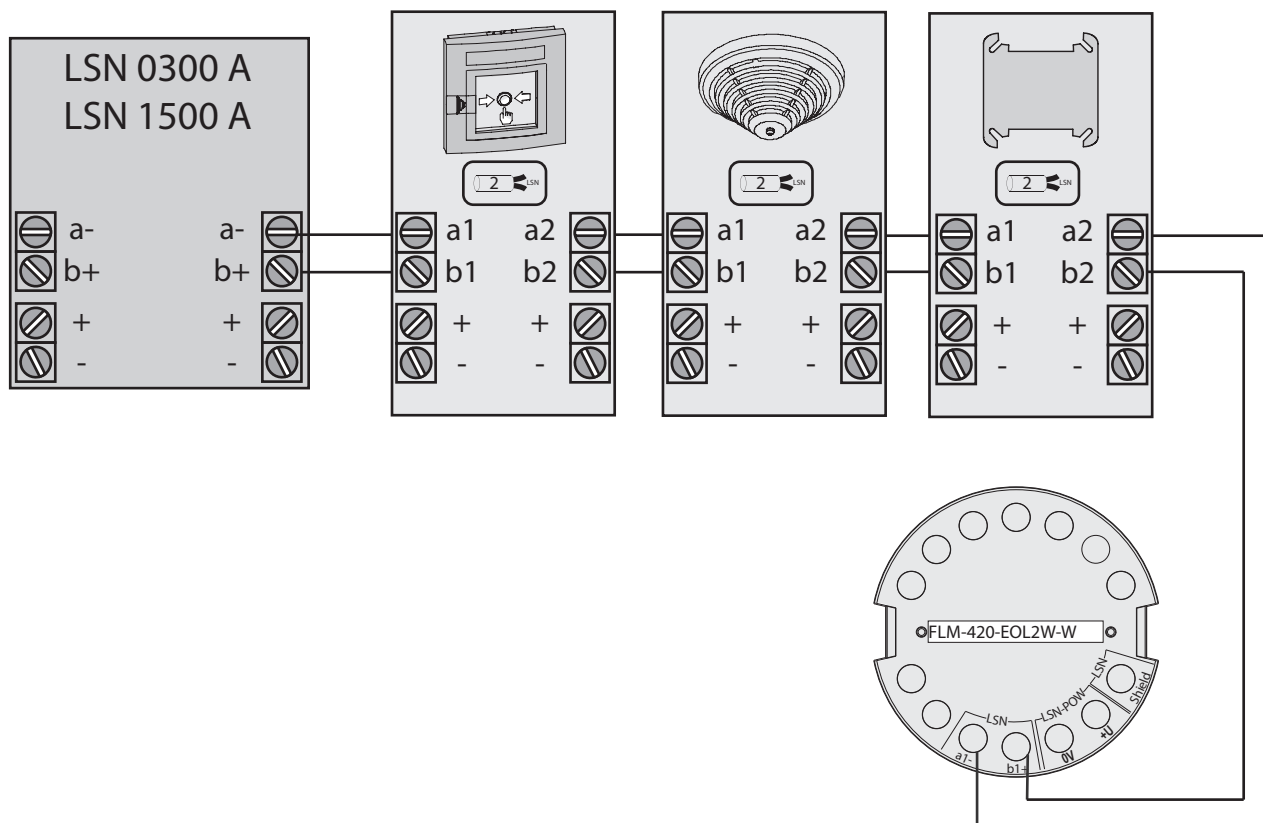
LSN 0300 A, Página 181

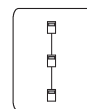
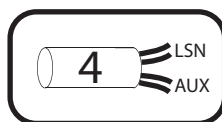
FLM-420/4-CON-S/D, Página 223

3.5.1**LSN 0300 A**

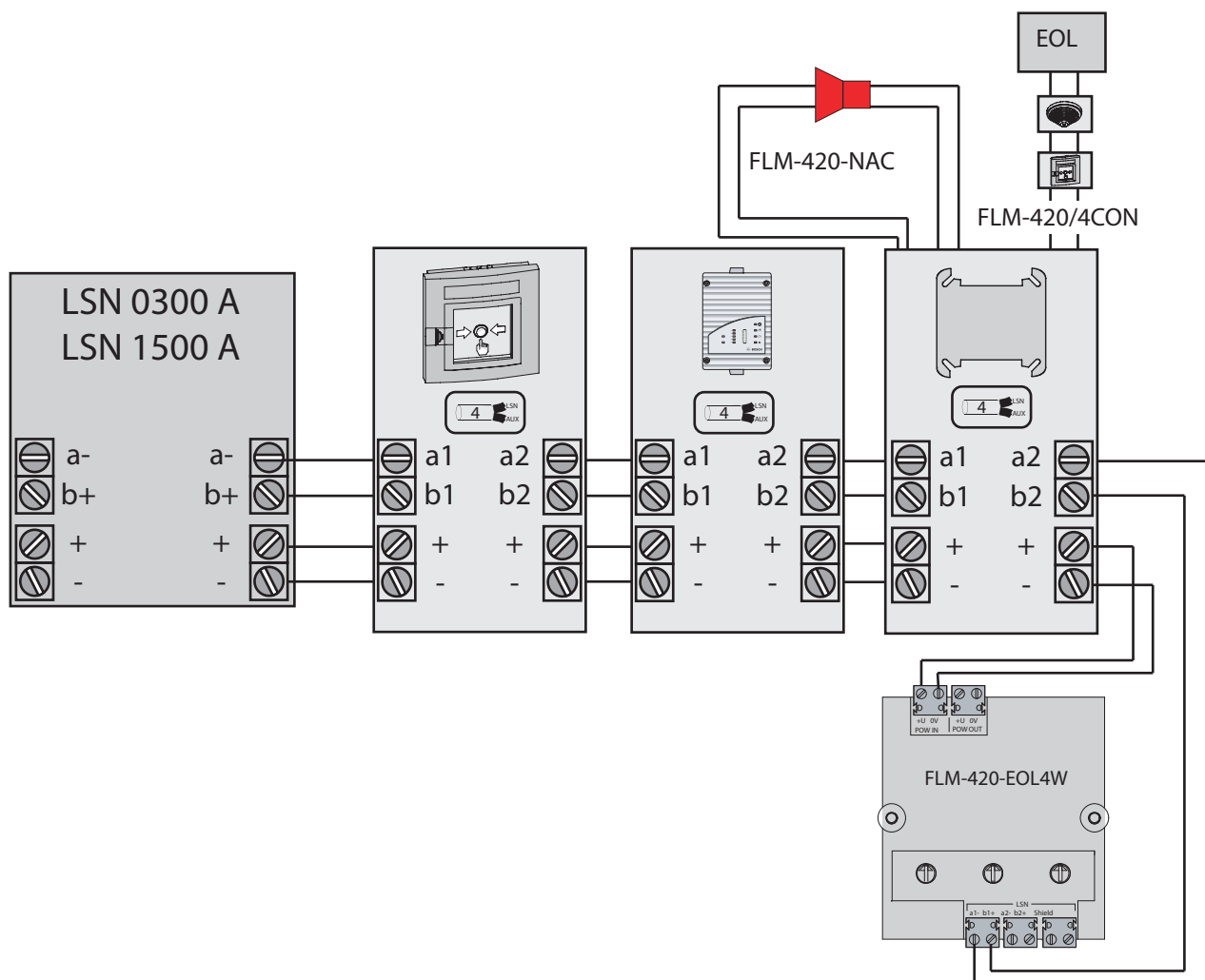
ELS

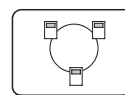
VdS 2489



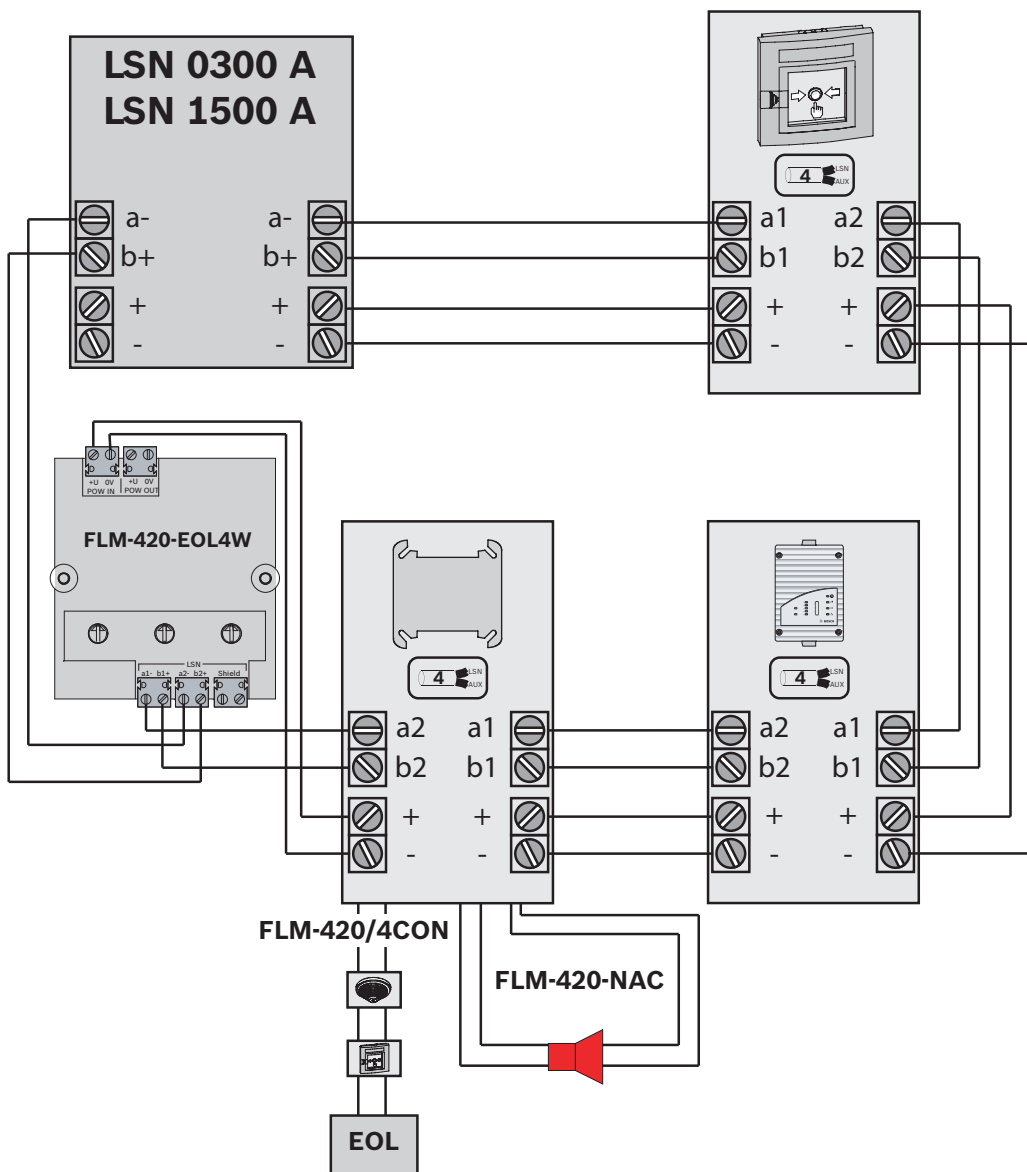


ELS VdS 2489





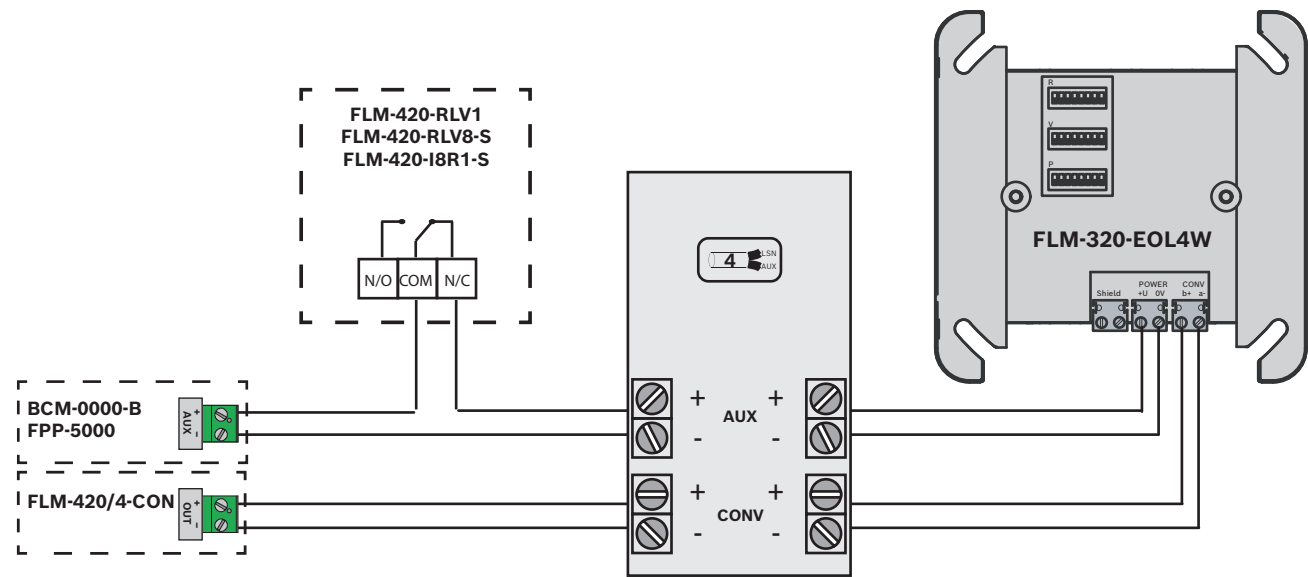
ELS VdS 2489

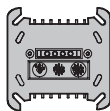
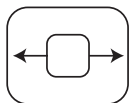




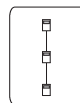
Reset action

ELS VdS 2489

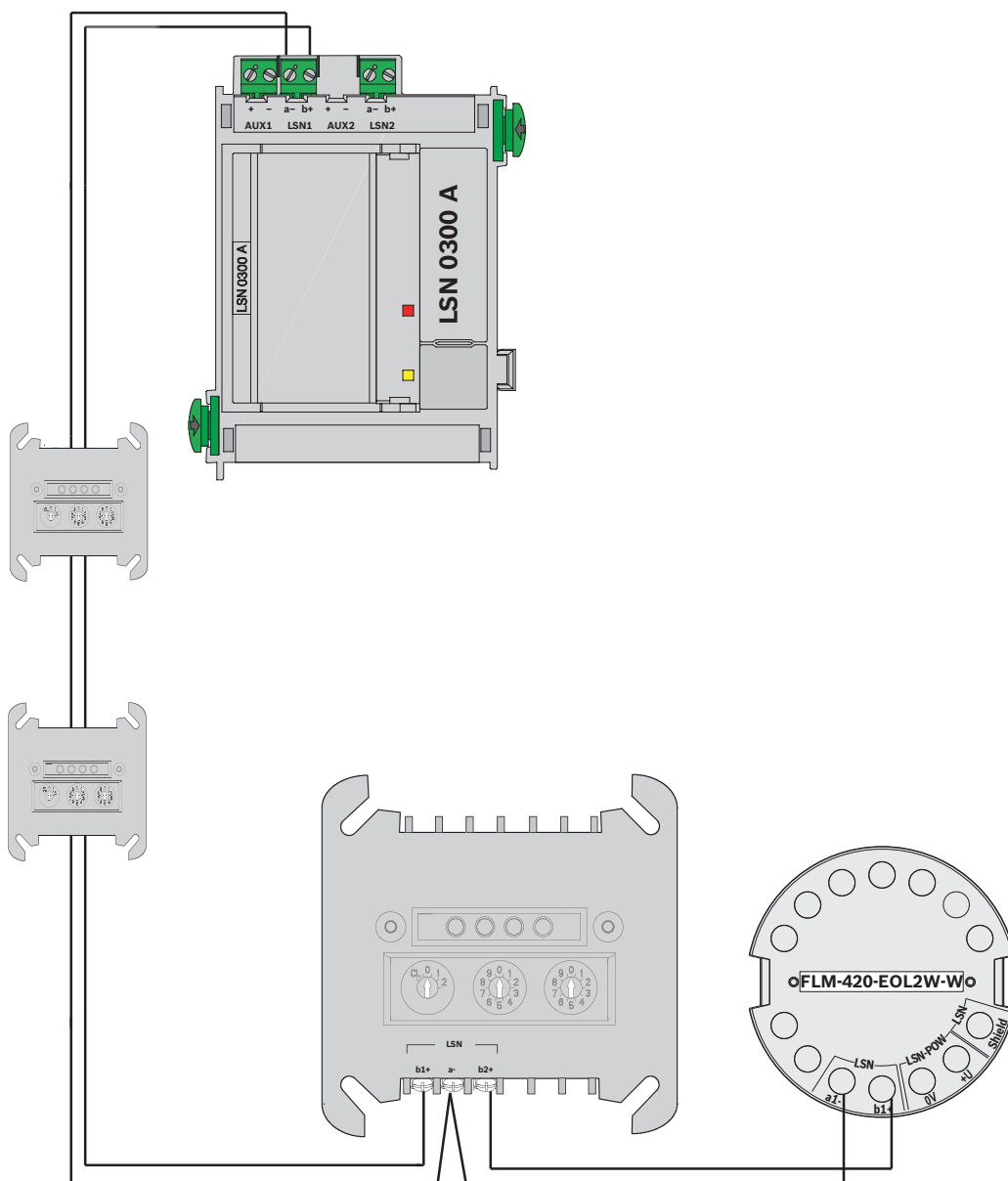


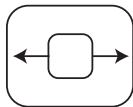


FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

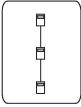


ELS VdS 2489

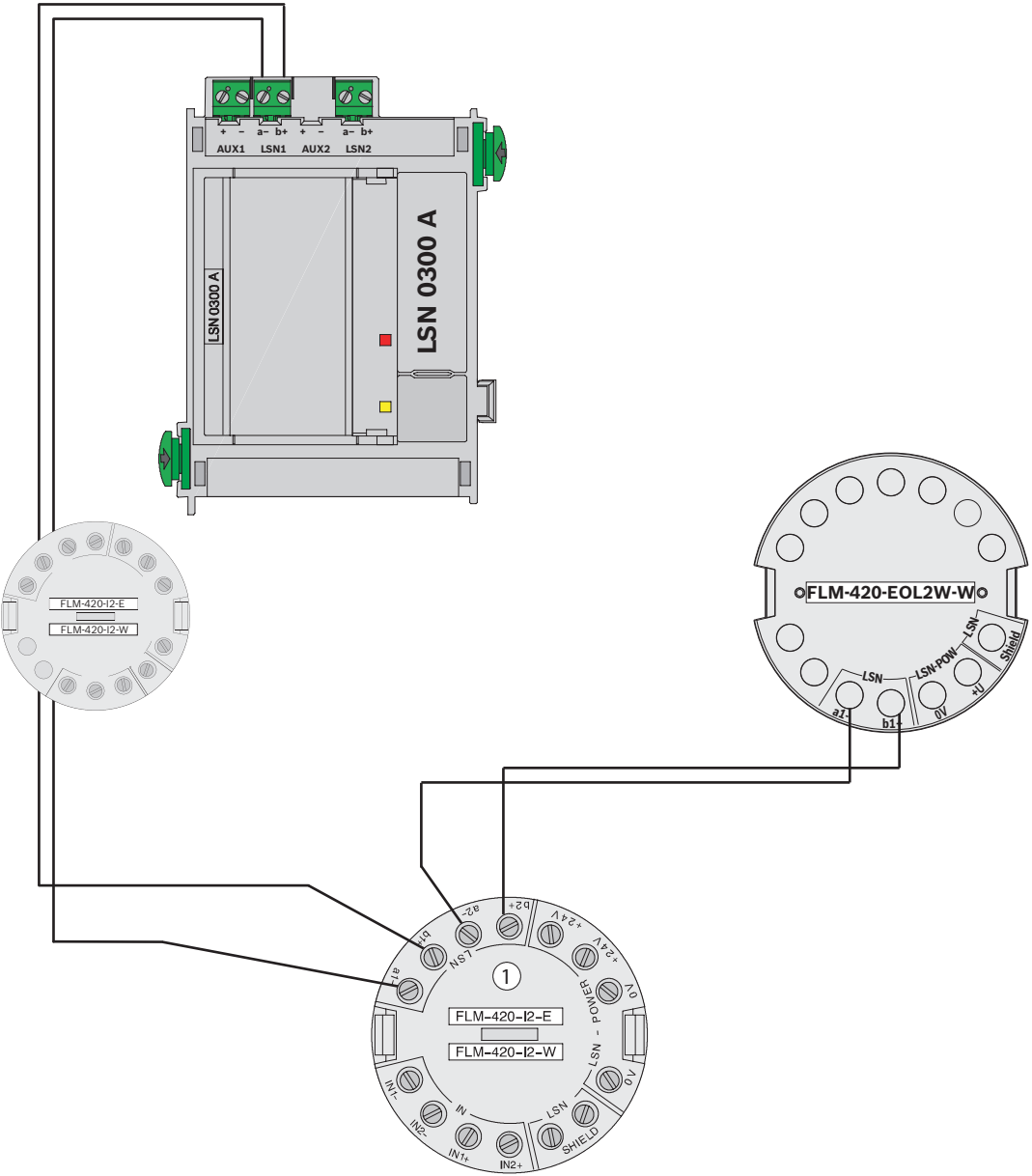


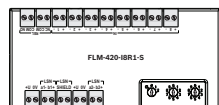
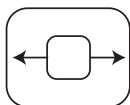


FLM-420-I2-E/W

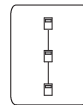


ELS VdS 2489

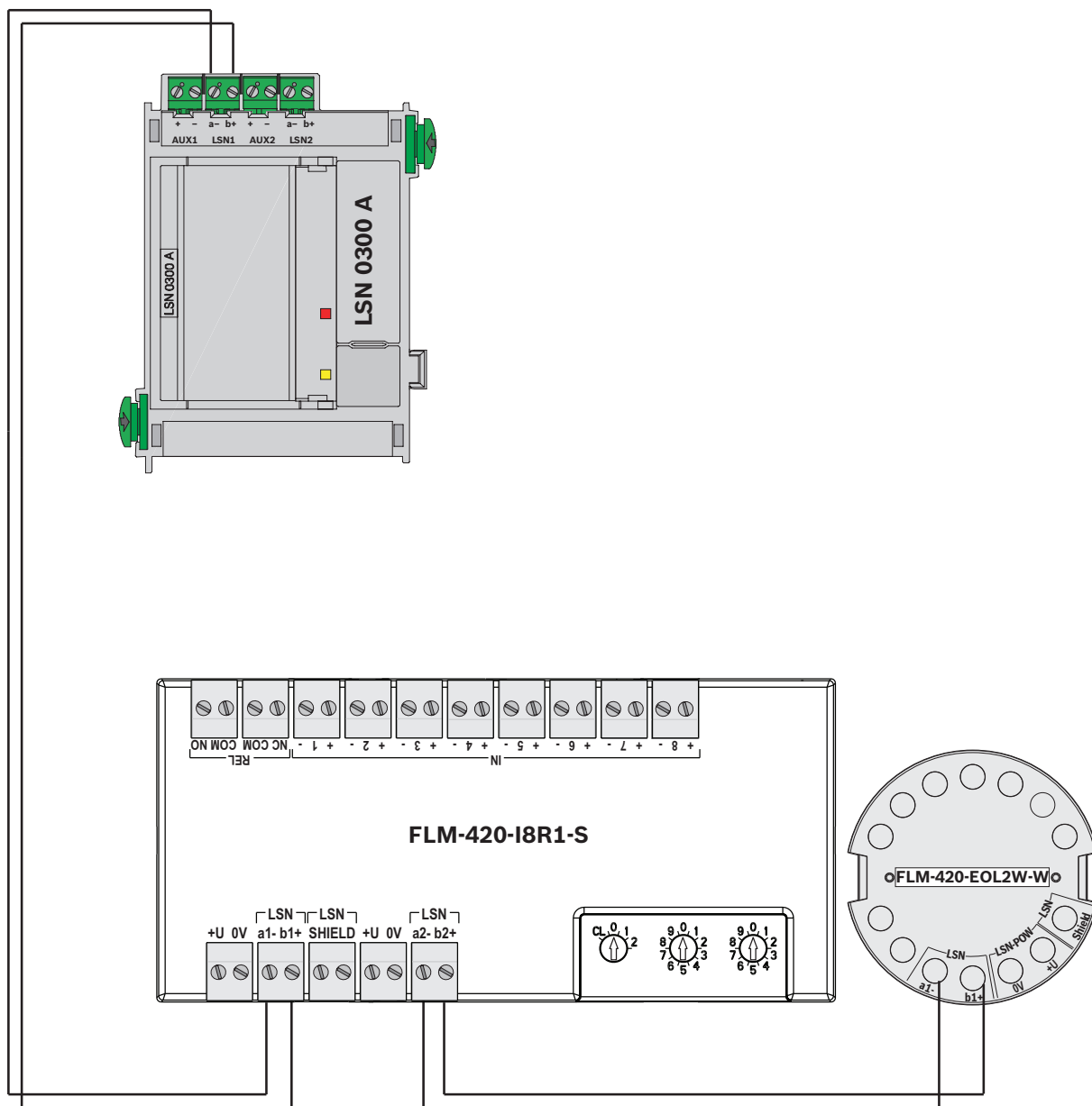


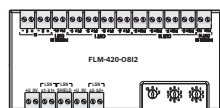
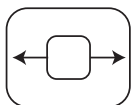


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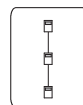


ELS VdS 2489

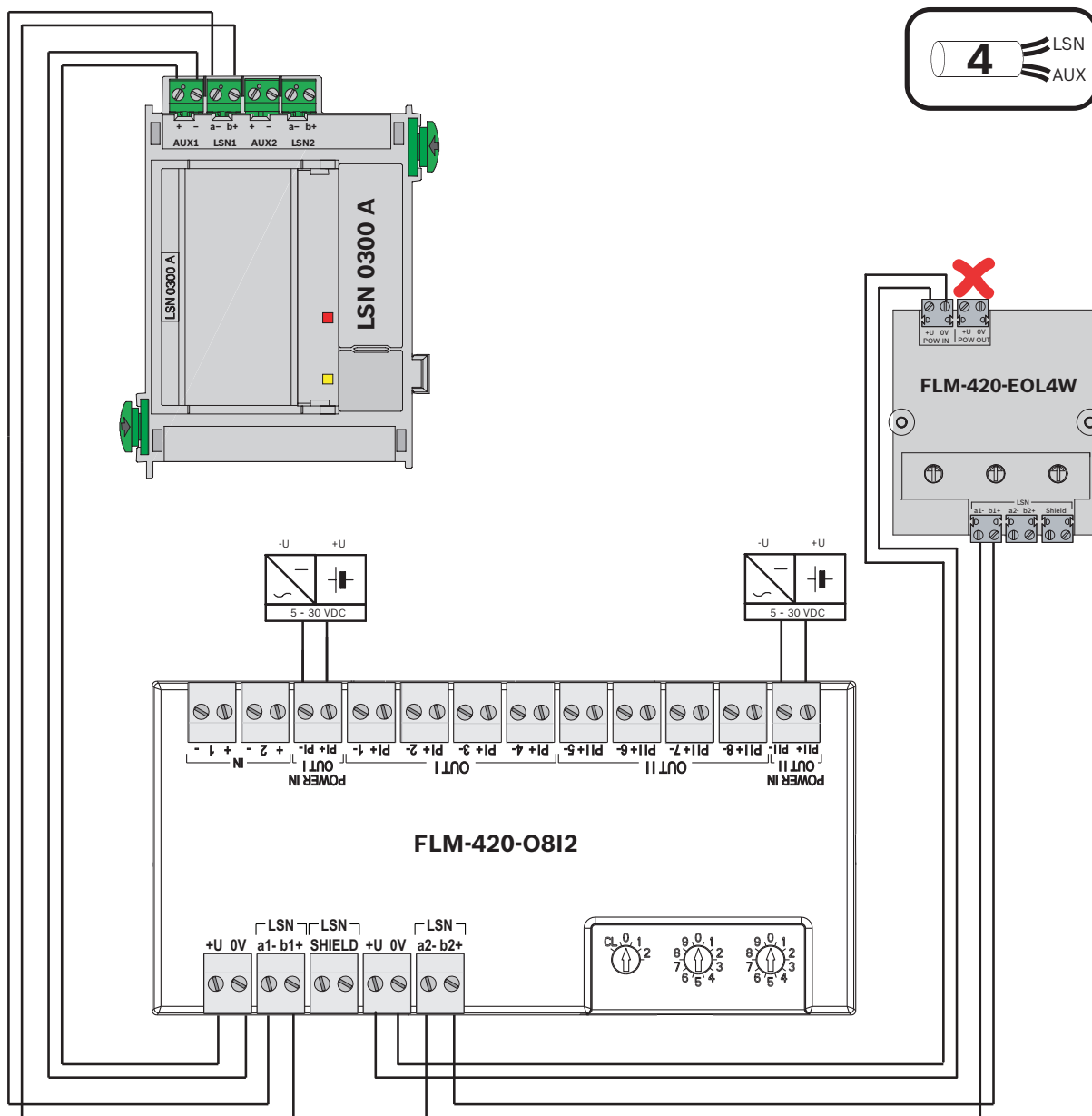


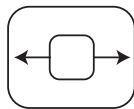


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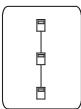


ELS VdS 2489

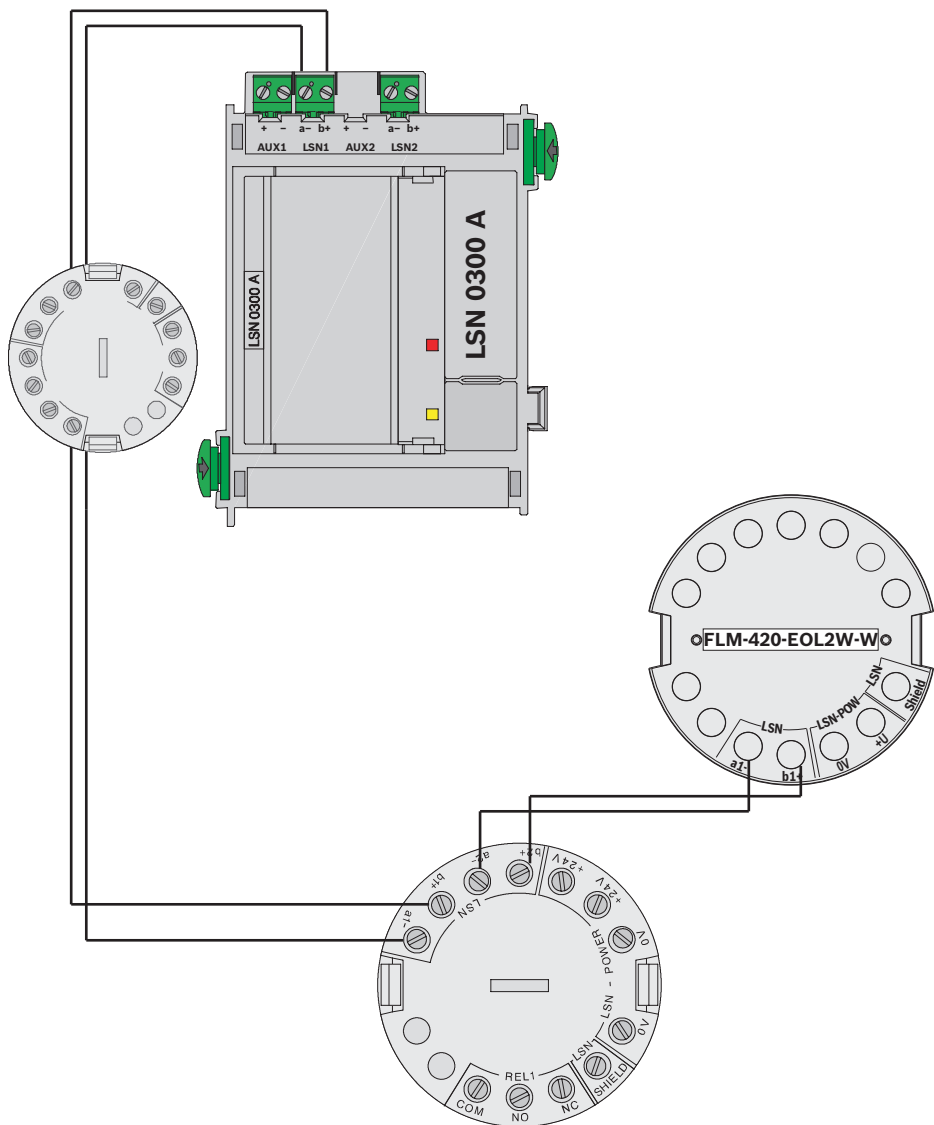


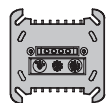
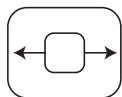


FLM-420-I2-E/-W
FLM-420-RLV1-E



ELS VdS 2489

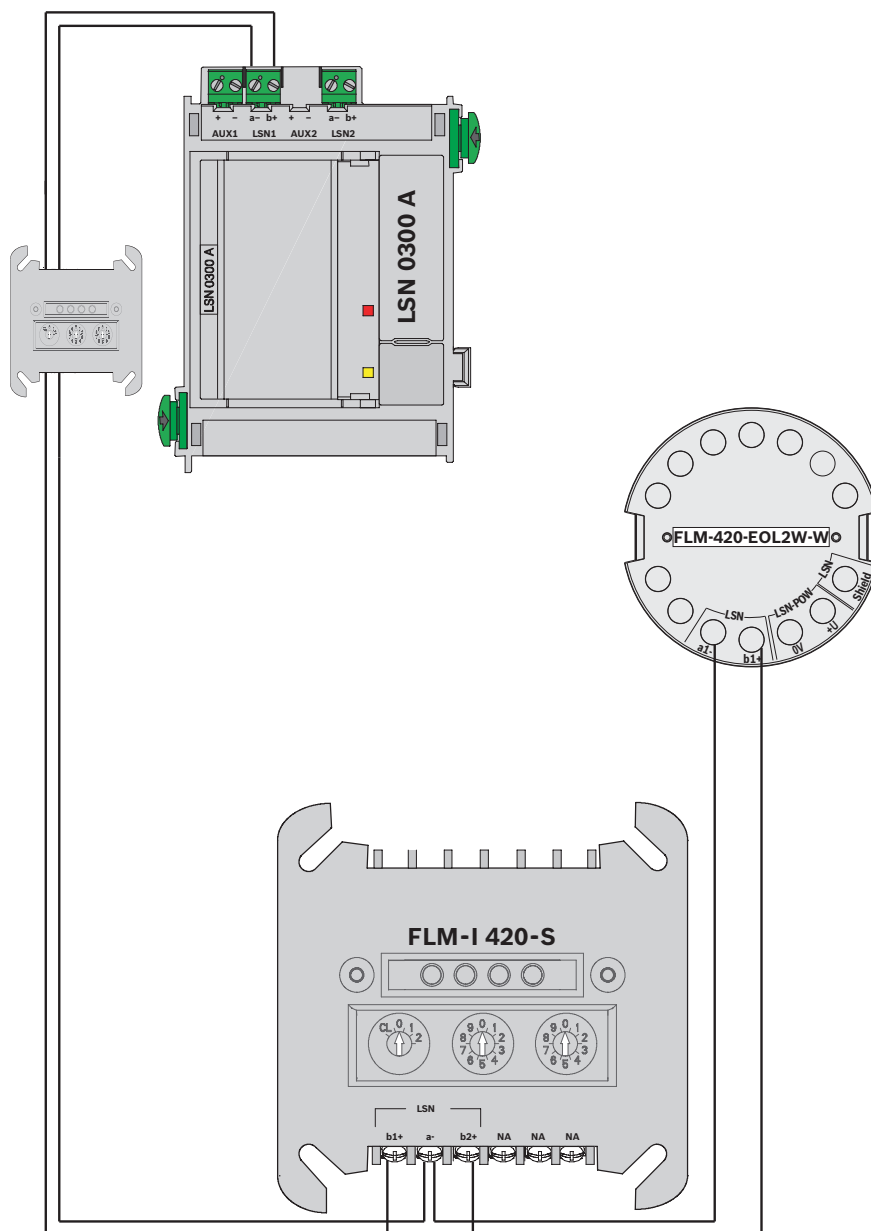


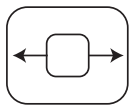


FLM-I 420-S

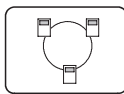


ELS VdS 2489

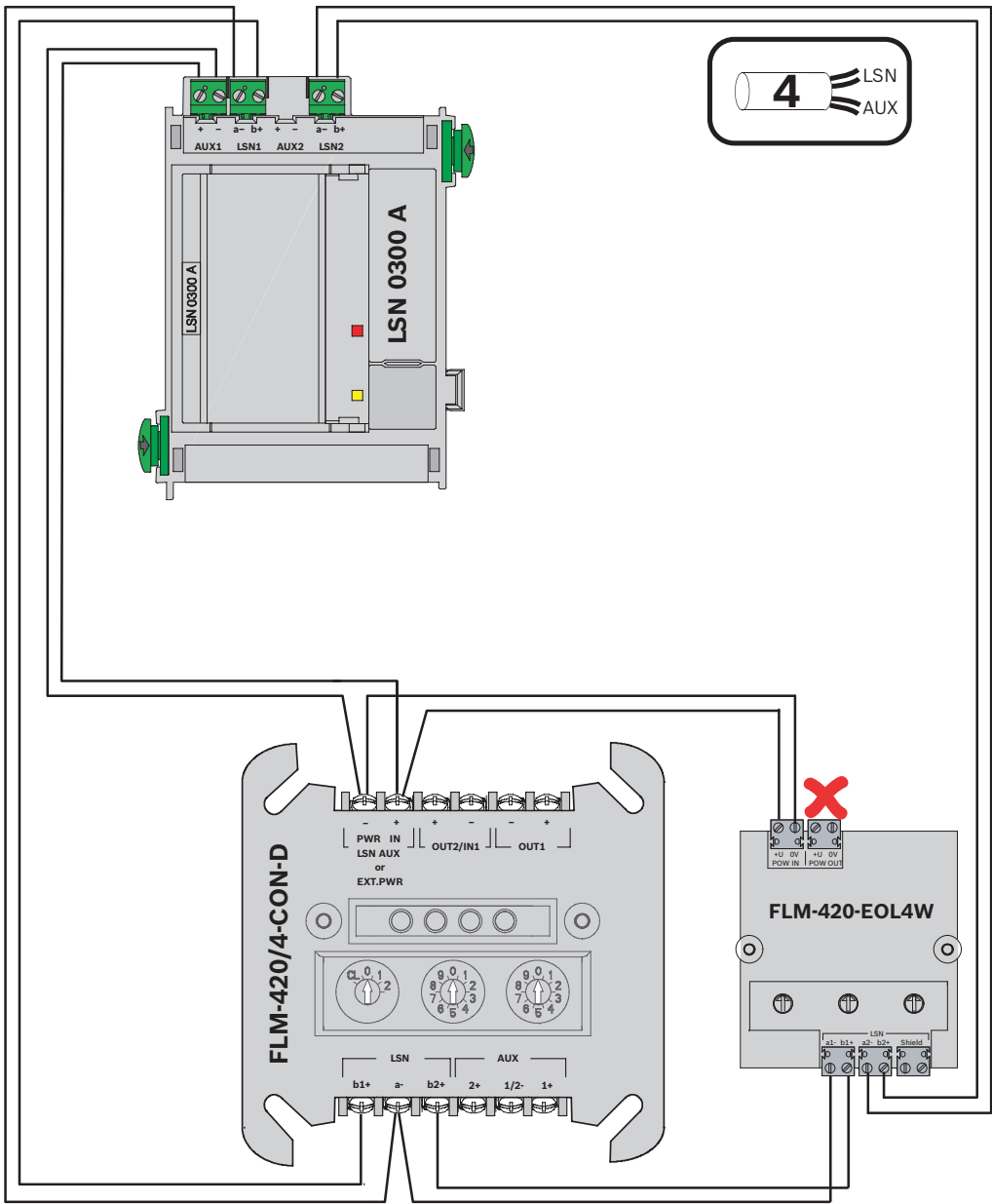


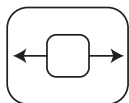


**FLM-420/
4-CON-D**

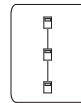


ELS VdS 2489

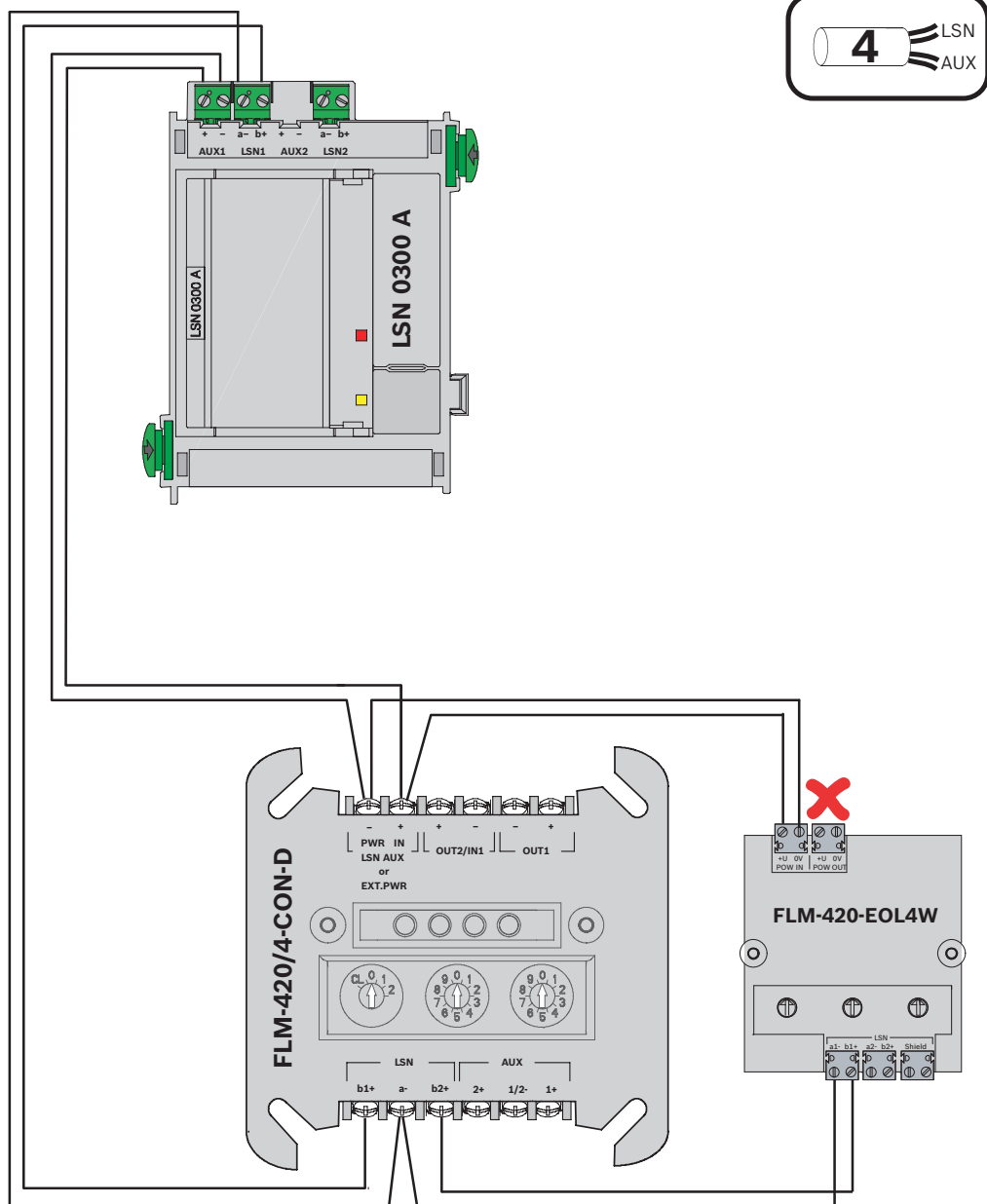


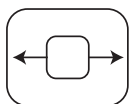


**FLM-420/
4-CON-D**

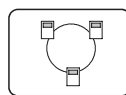
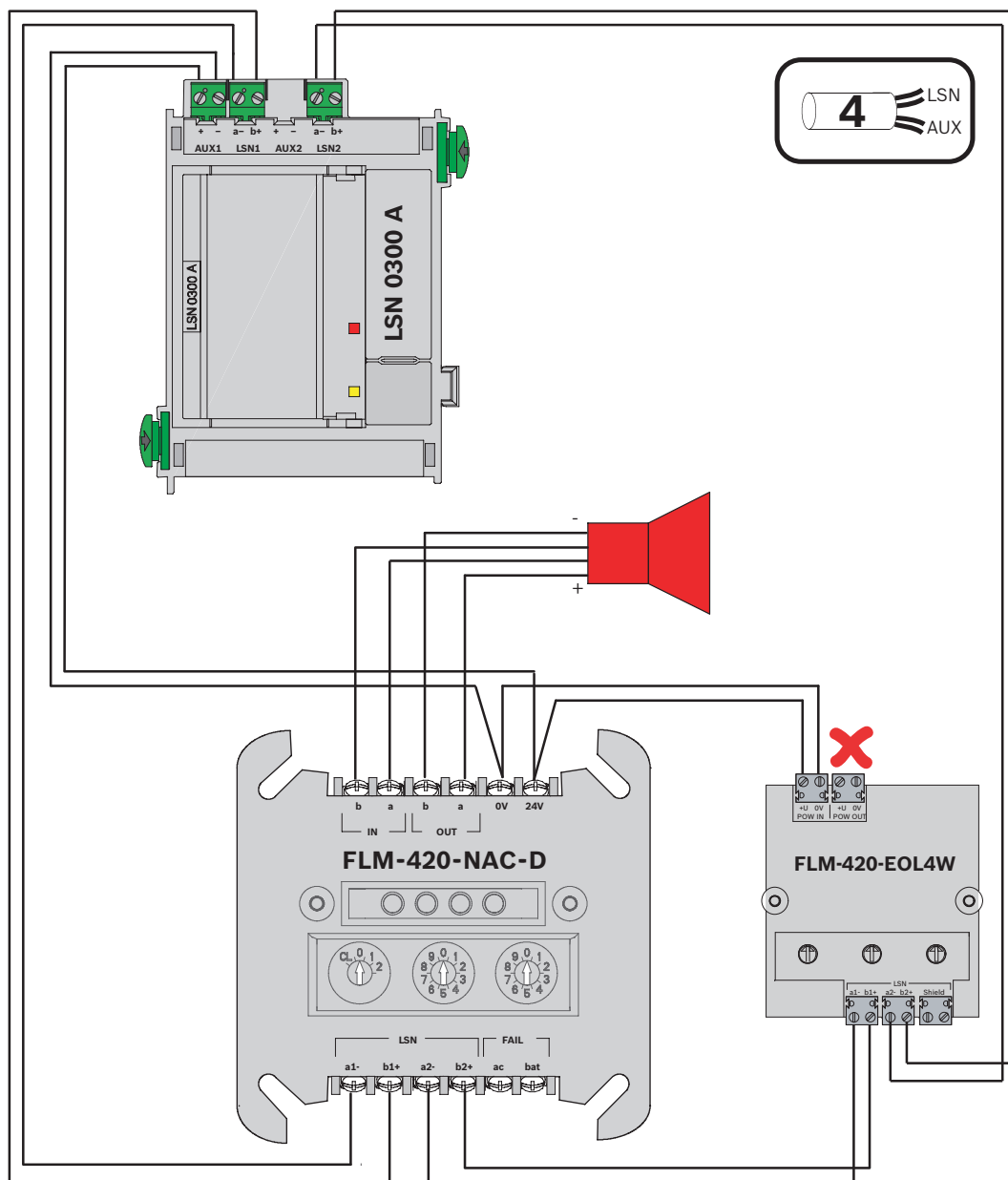


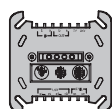
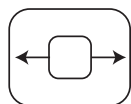
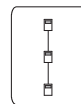
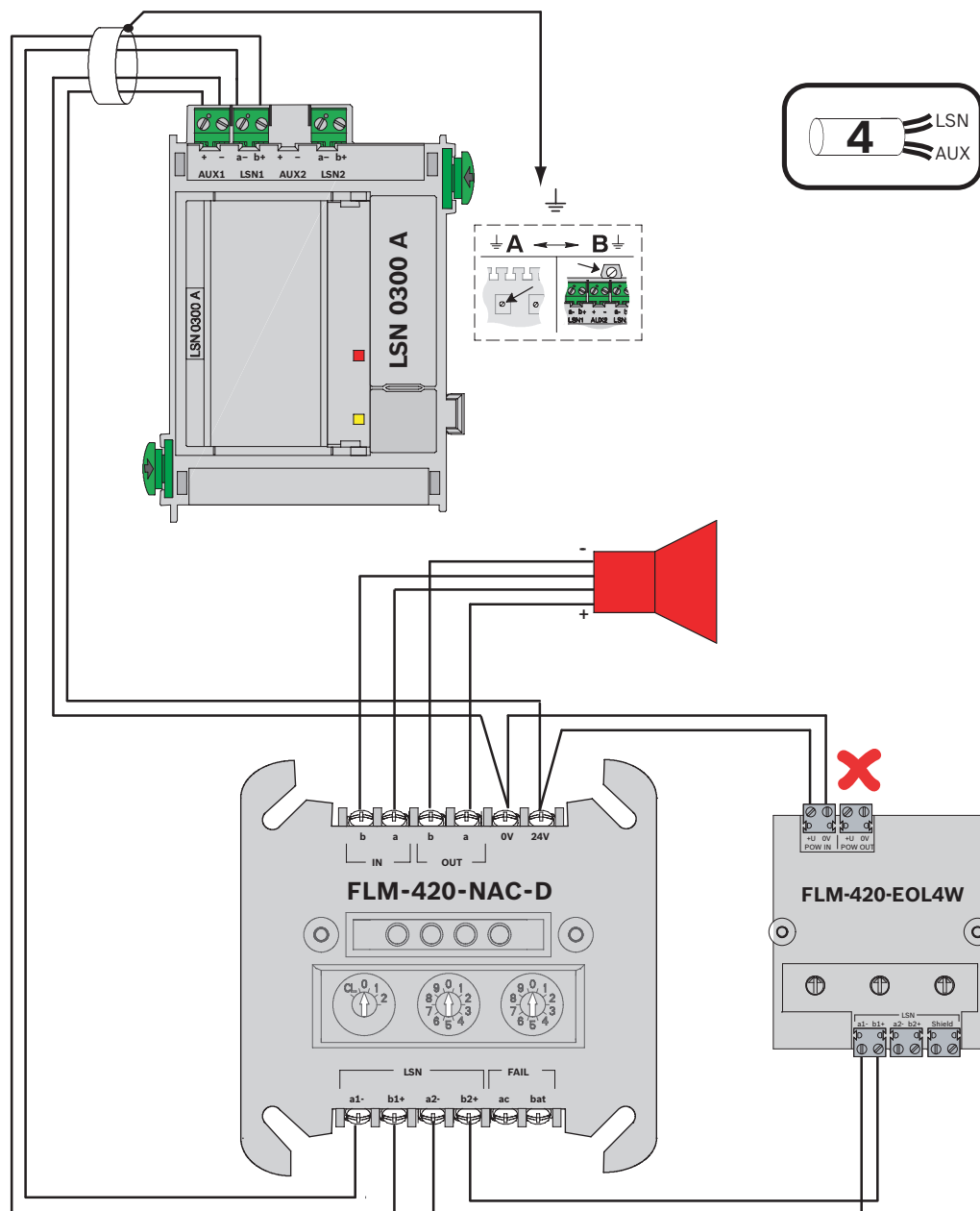
ELS VdS 2489

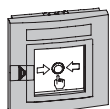
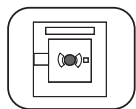




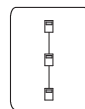
FLM-420-NAC-D/S

ELS VdS 2489
EN 54-2

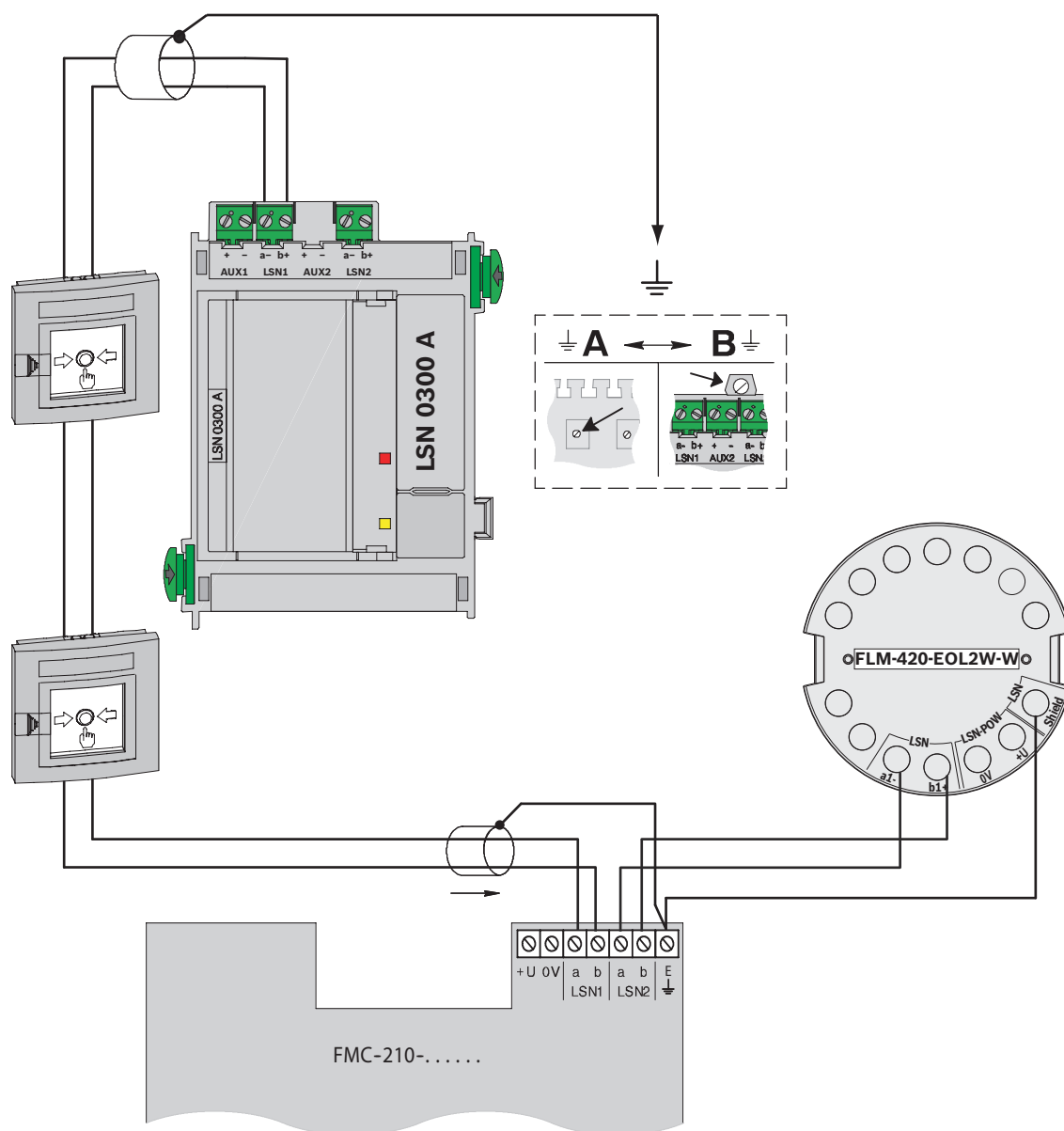
**FLM-420-NAC-D/S****ELS VdS 2489**

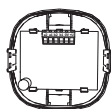


FMC-210-...

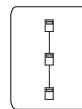


ELS VdS 2489

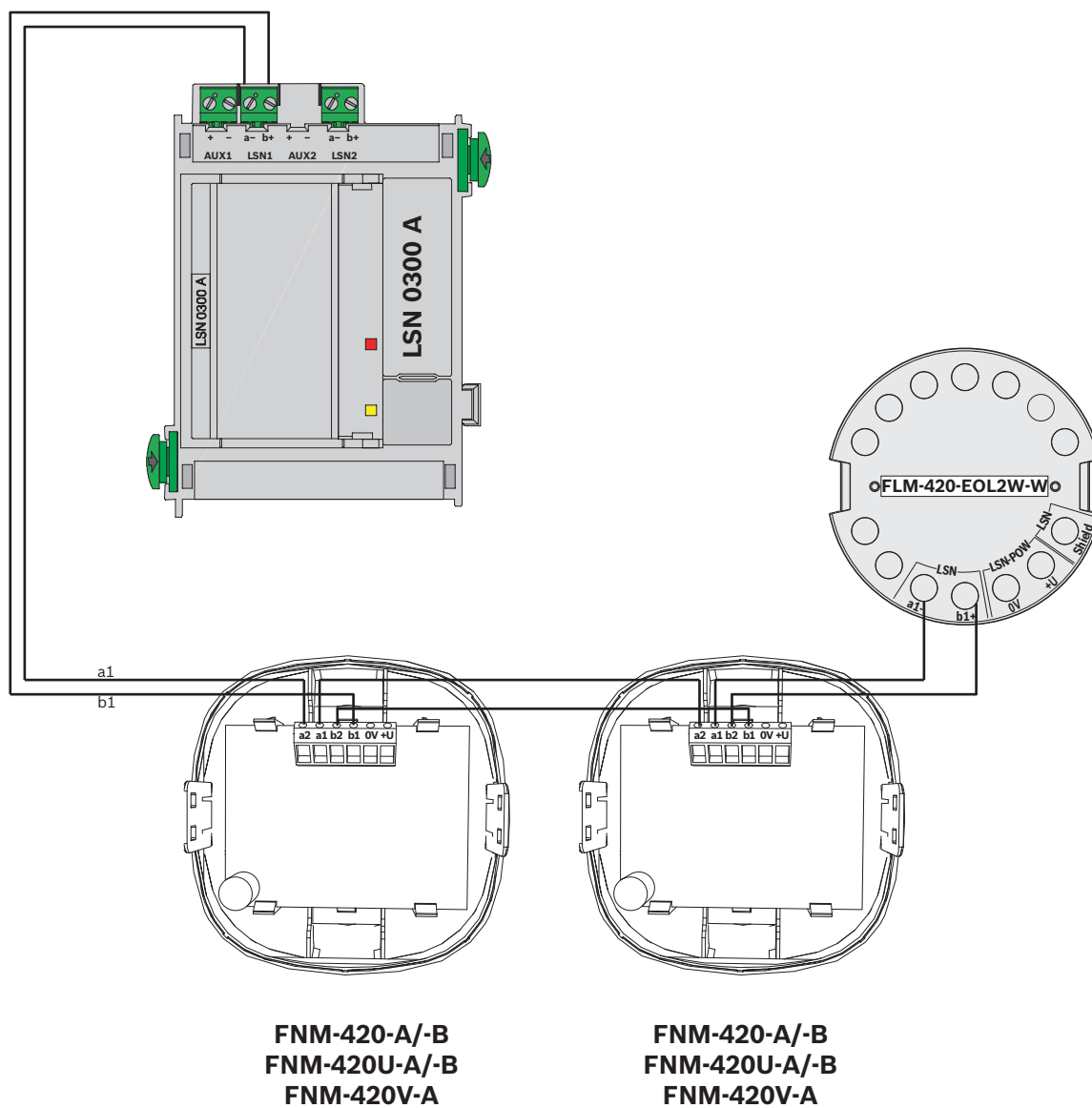




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS VdS 2489

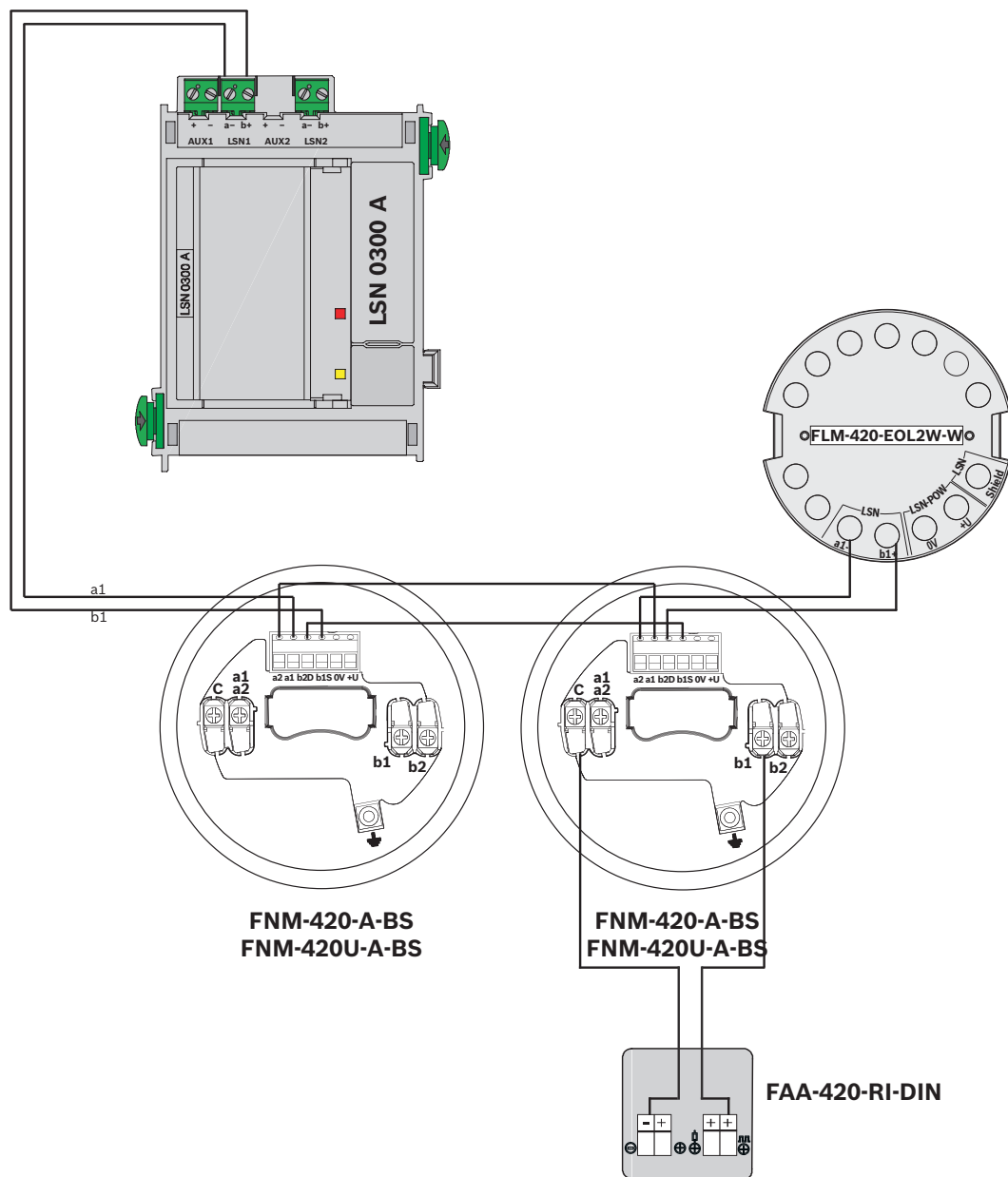




FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

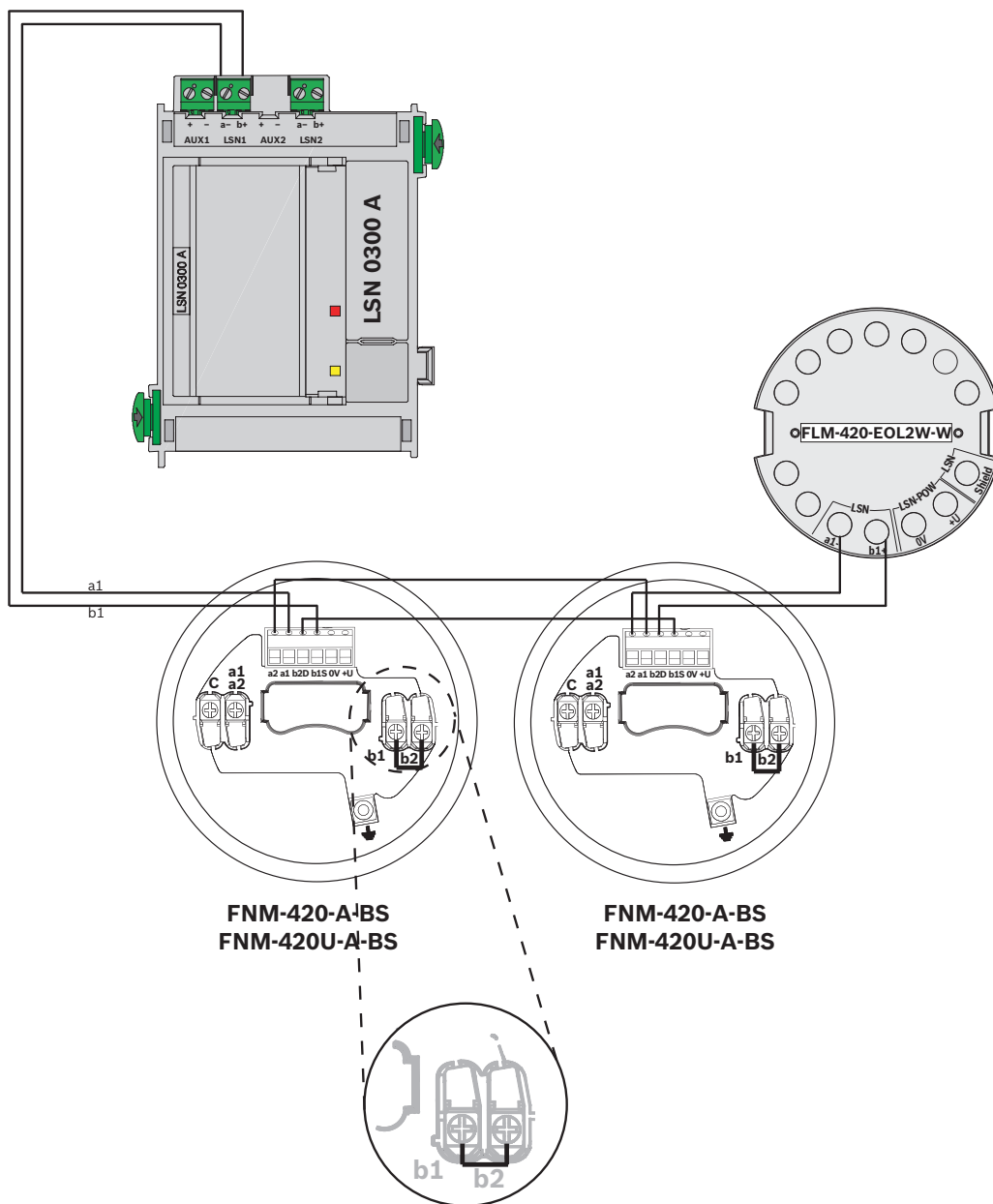




FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

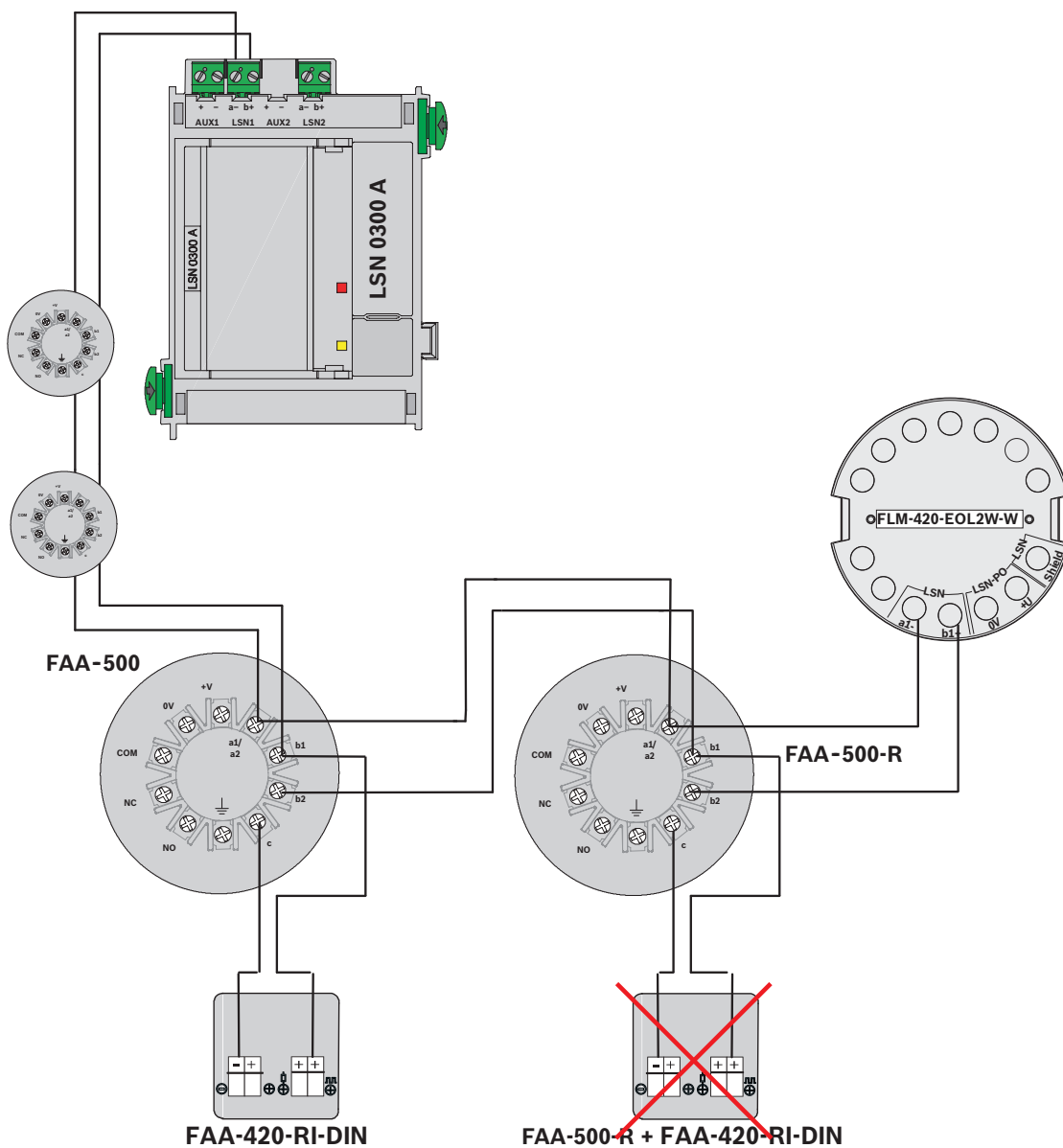




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

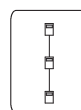


ELS VdS 2489

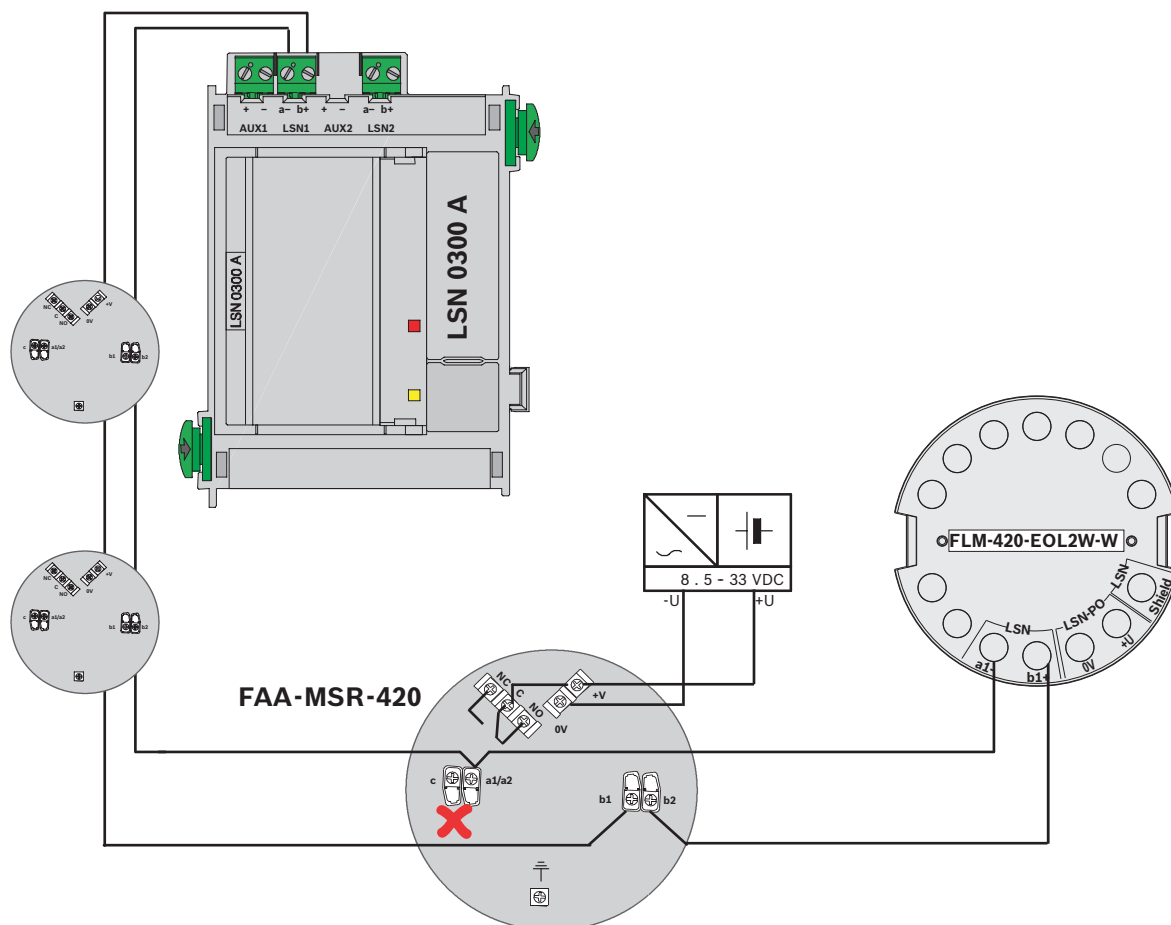




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R



ELS VdS 2489

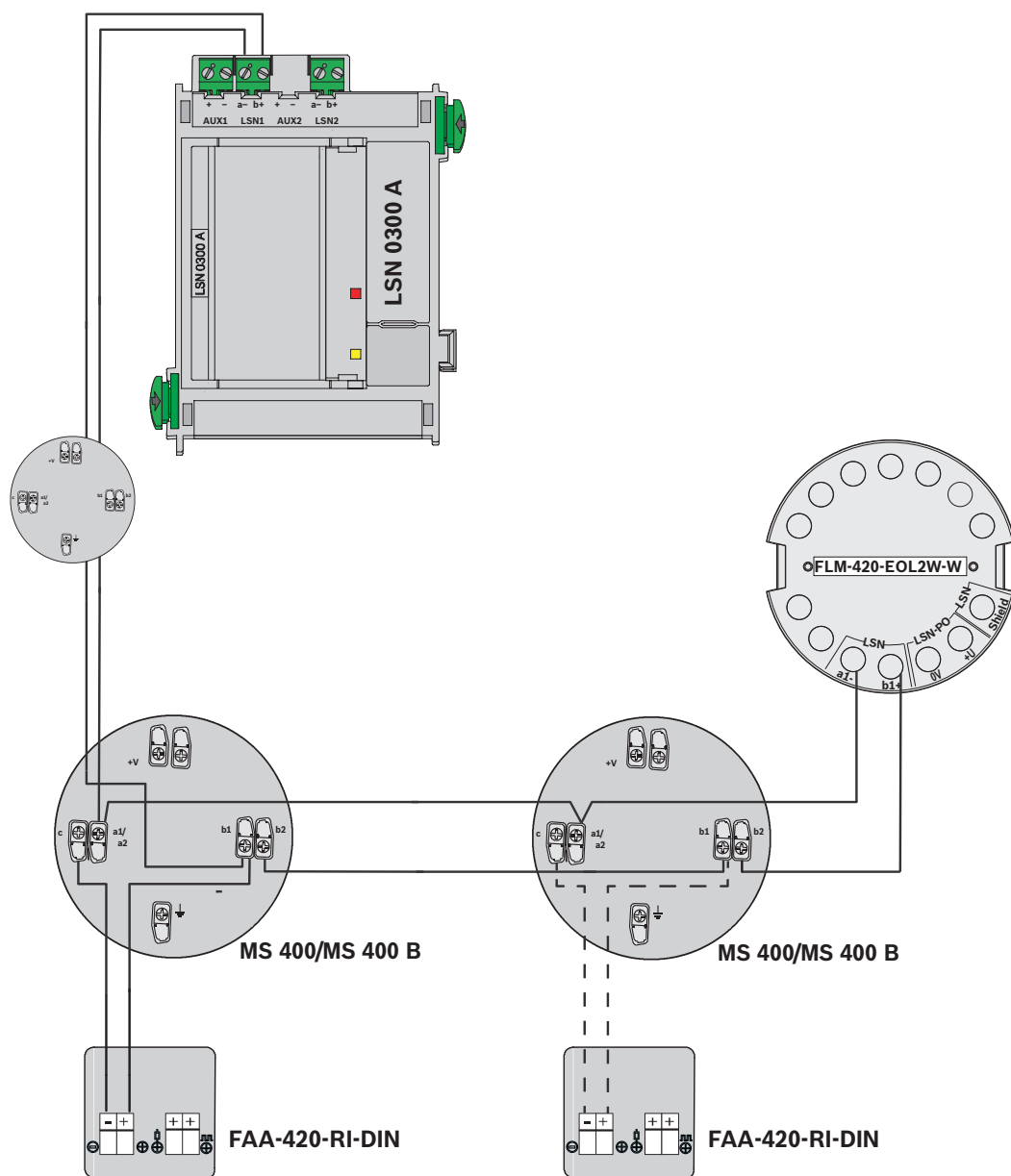


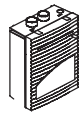


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470

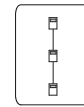


ELS VdS 2489



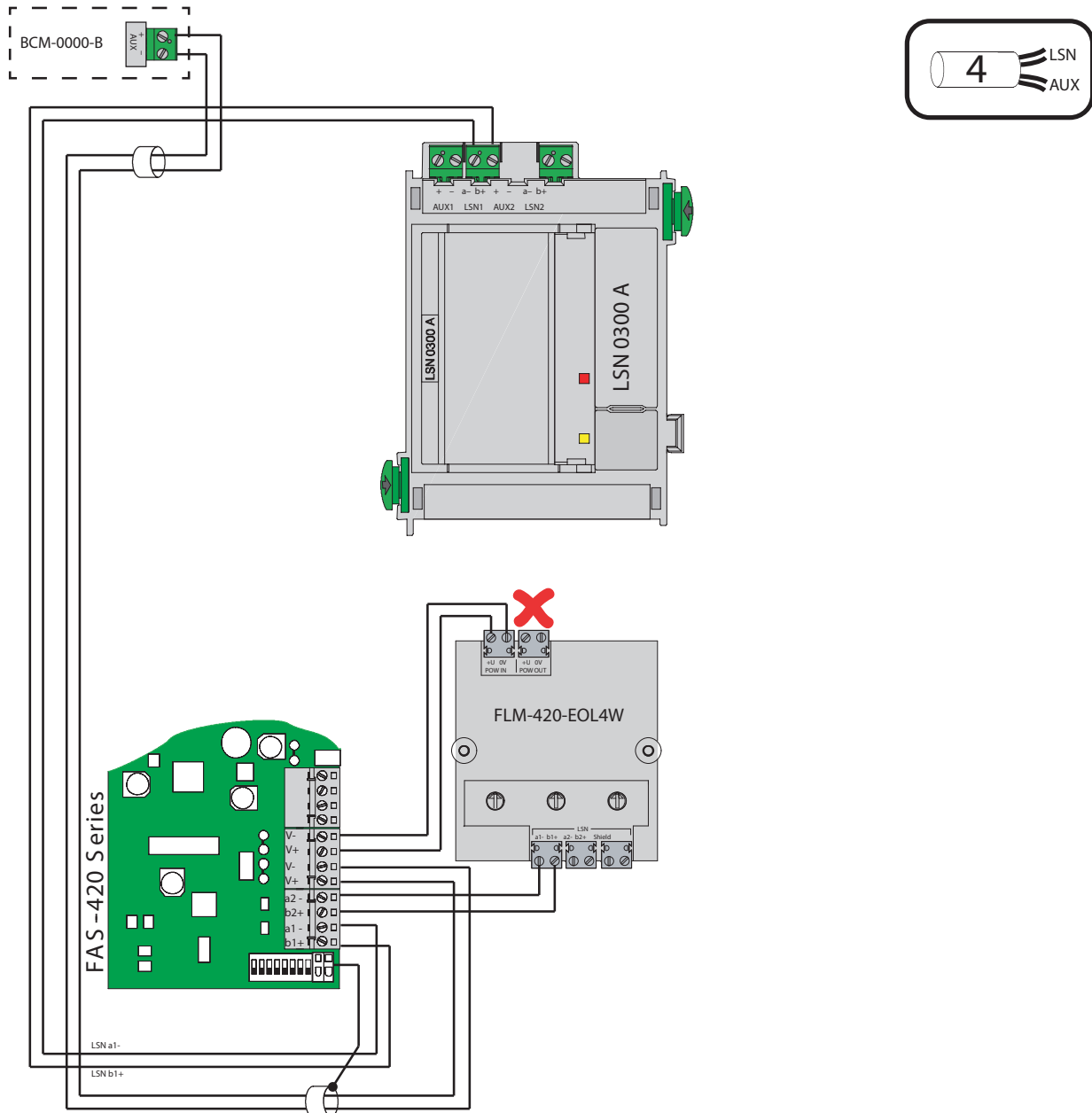


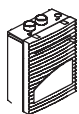
FAS-420 Series



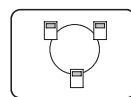
ELS

VdS 2489

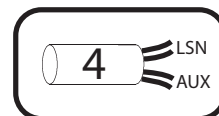
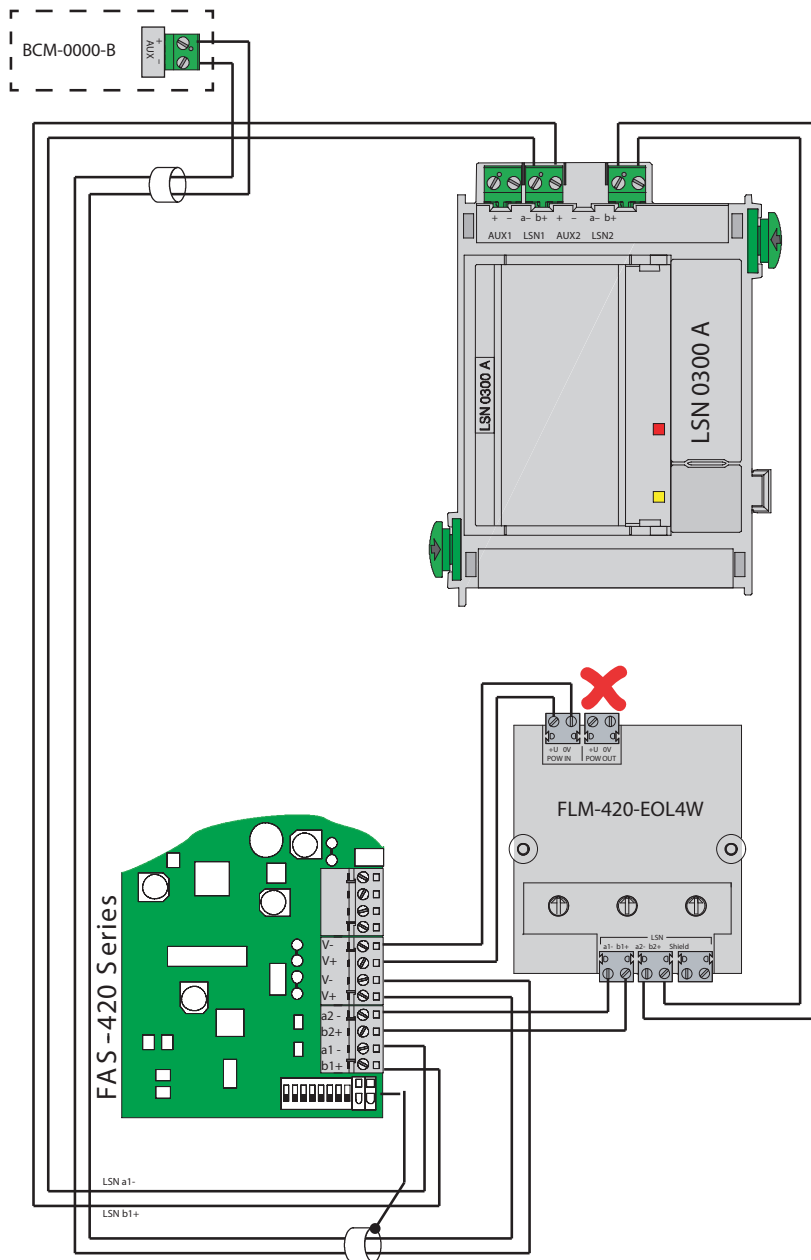


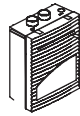


FAS-420 Series

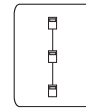


ELS VdS 2489

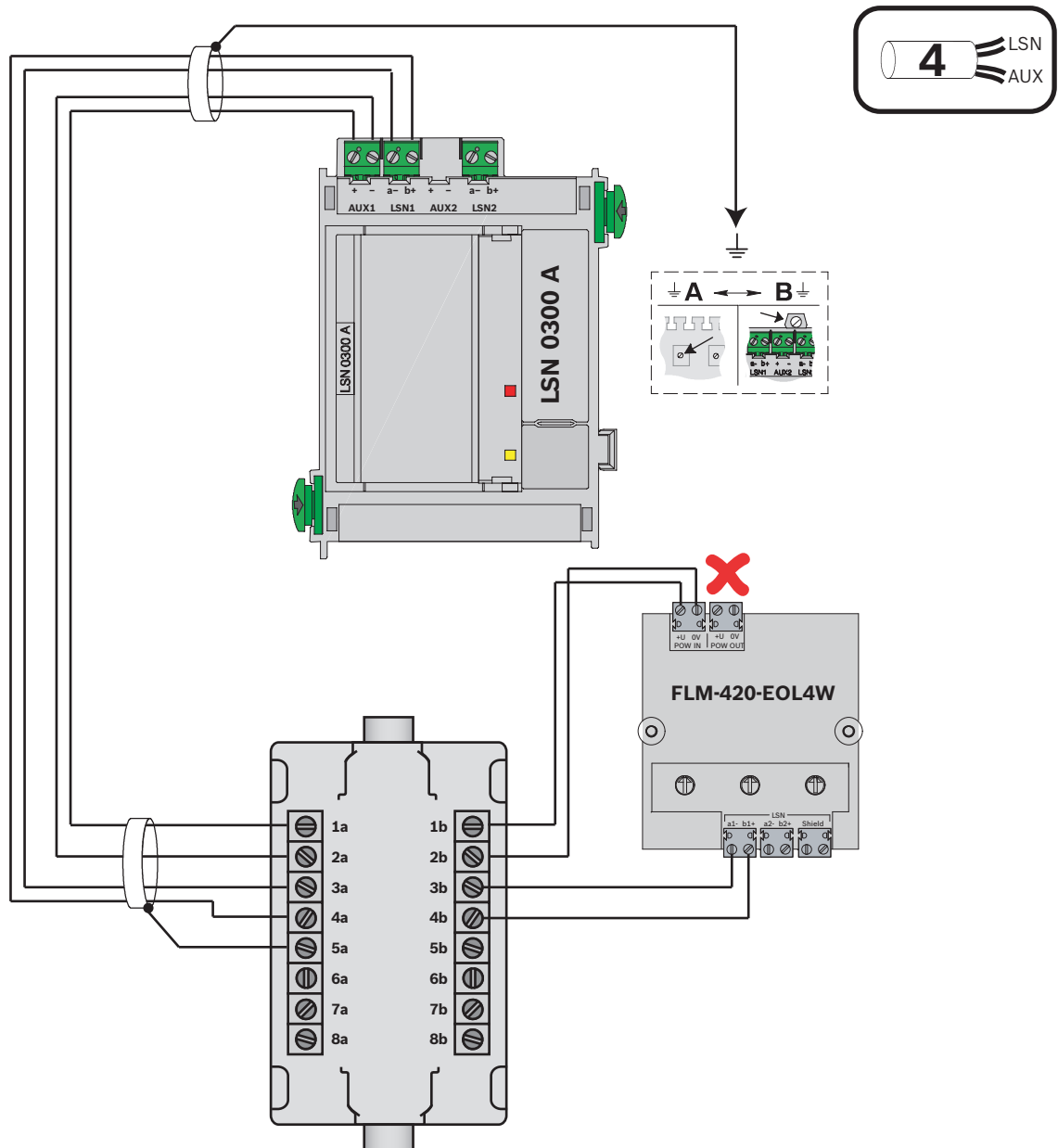


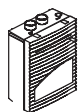


FAS-420-TM Series

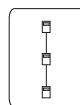


ELS VdS 2489

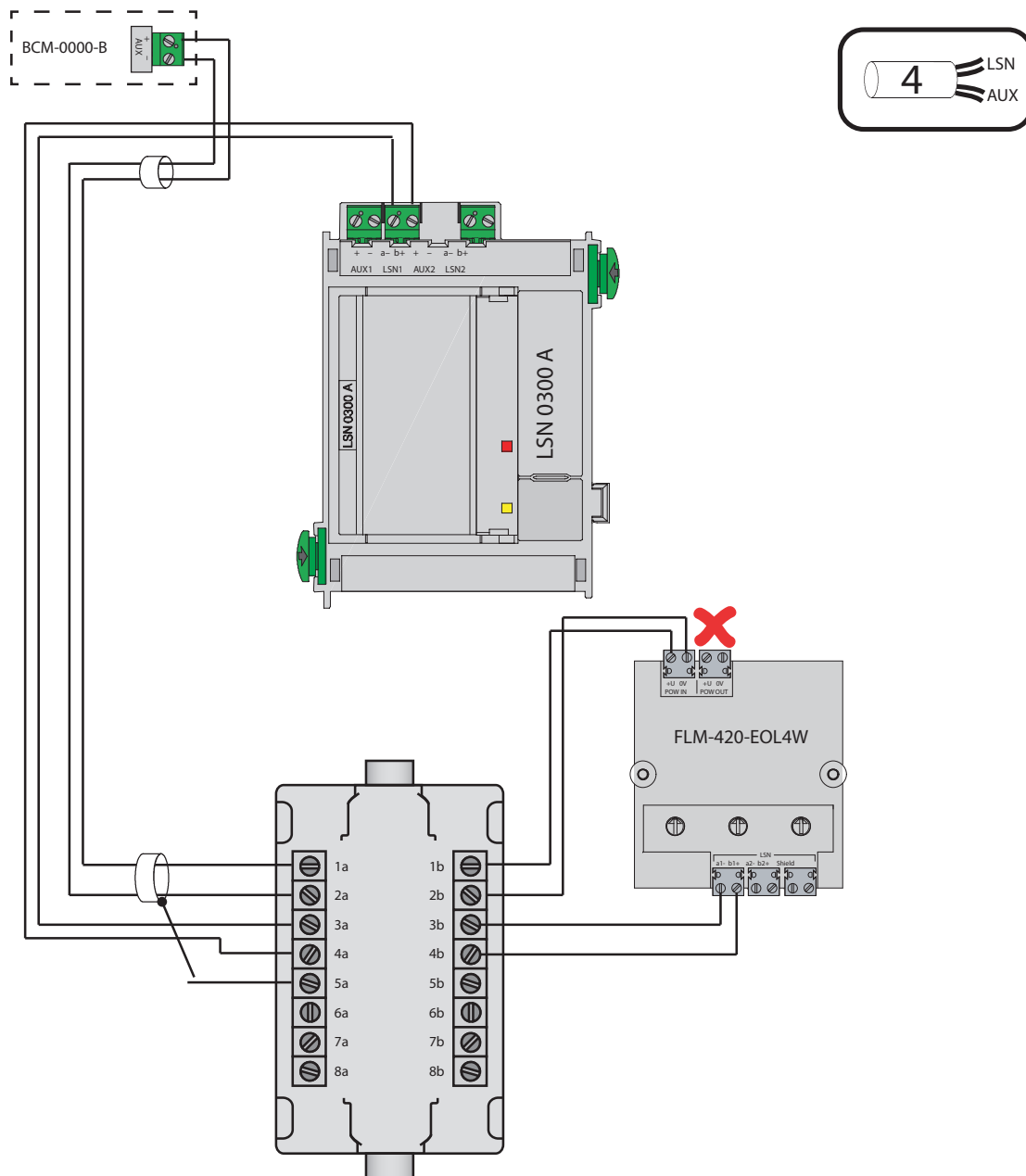


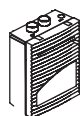


FAS-420-TM Series

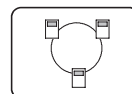


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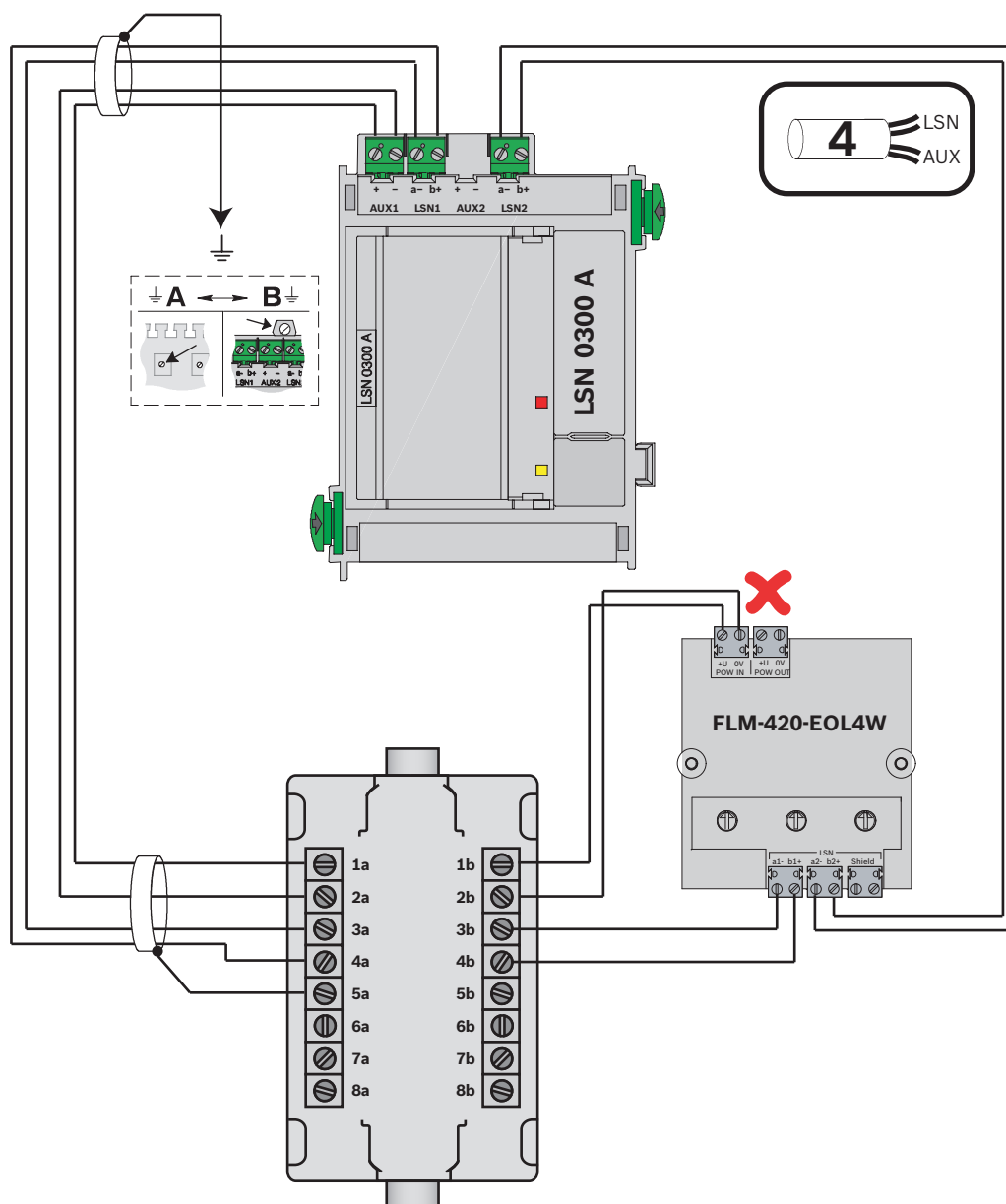


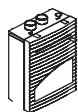


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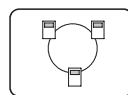


ELS VdS 2489

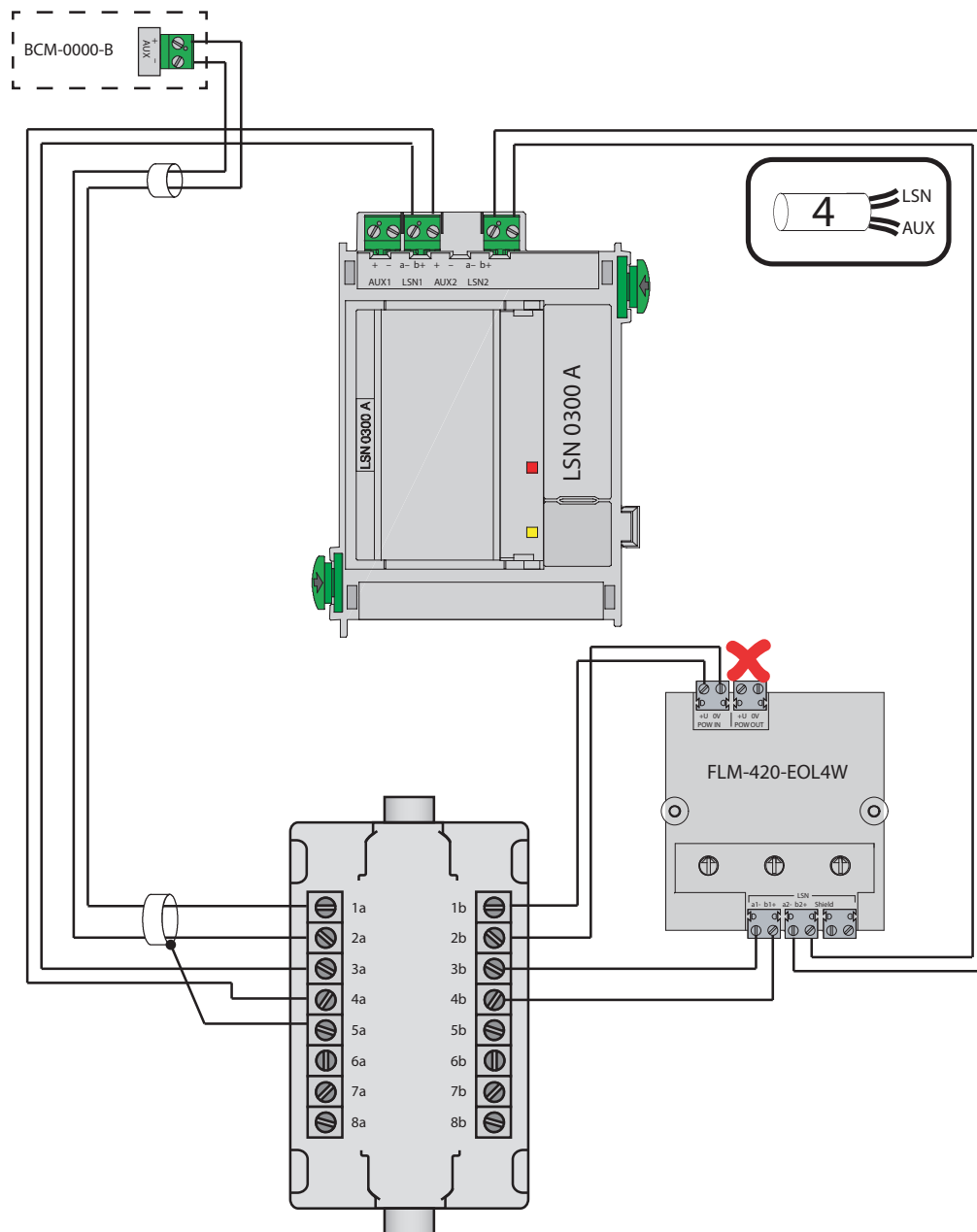


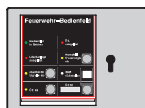


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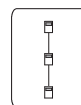


ELS VdS 2489

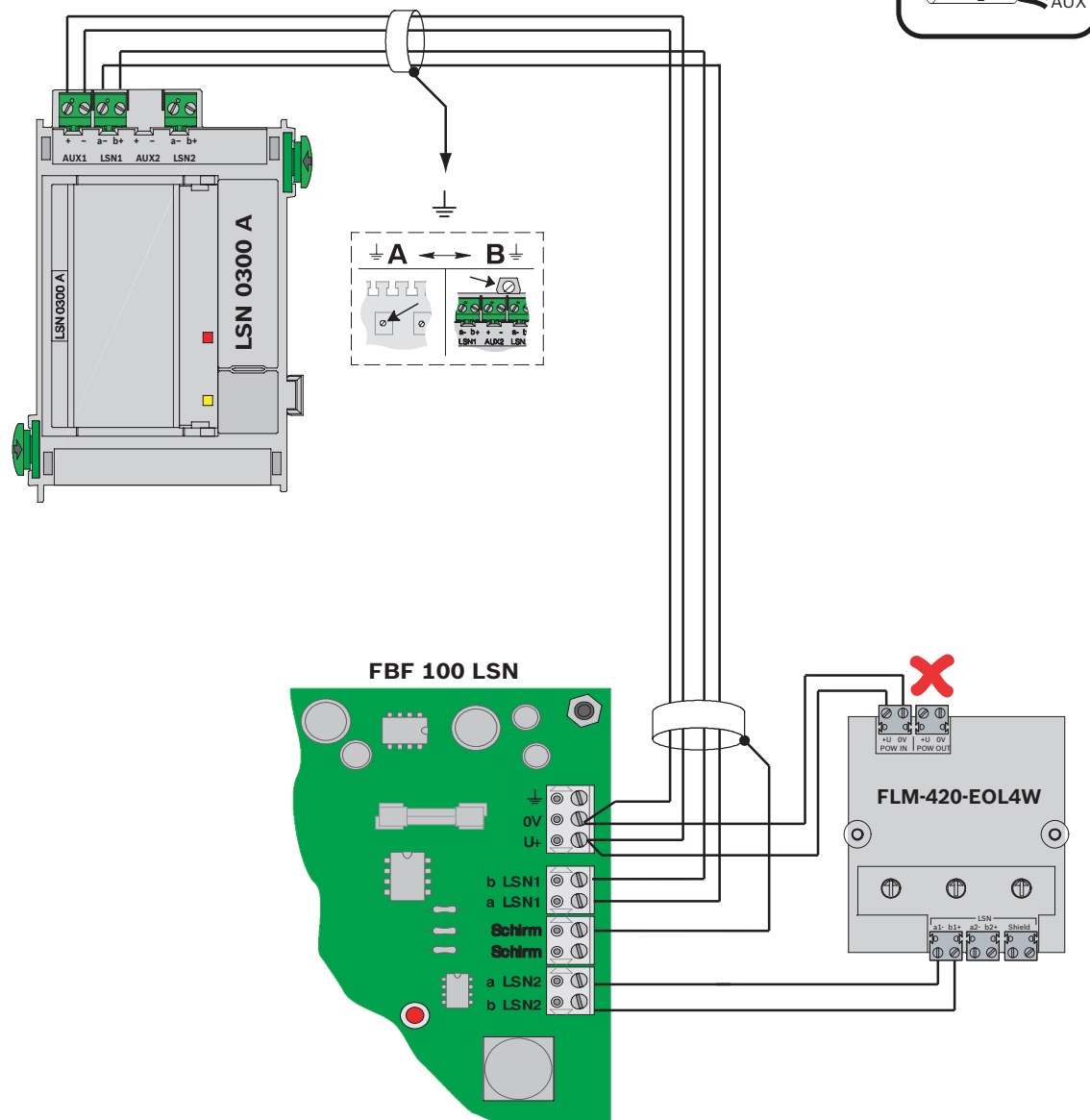




FBF 100 LSN

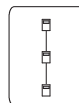


ELS VdS 2489

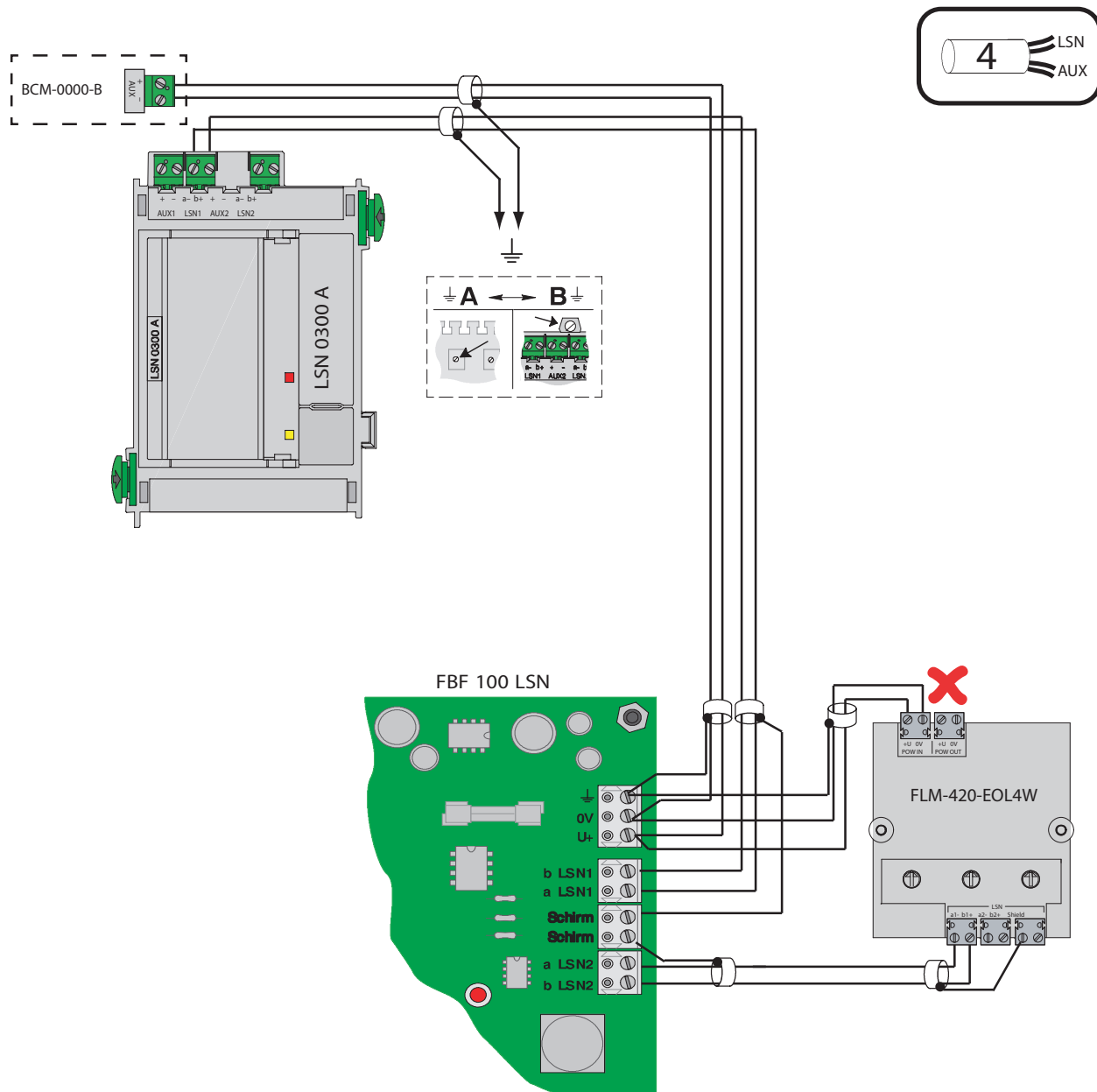




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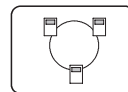


ELS VdS 2489

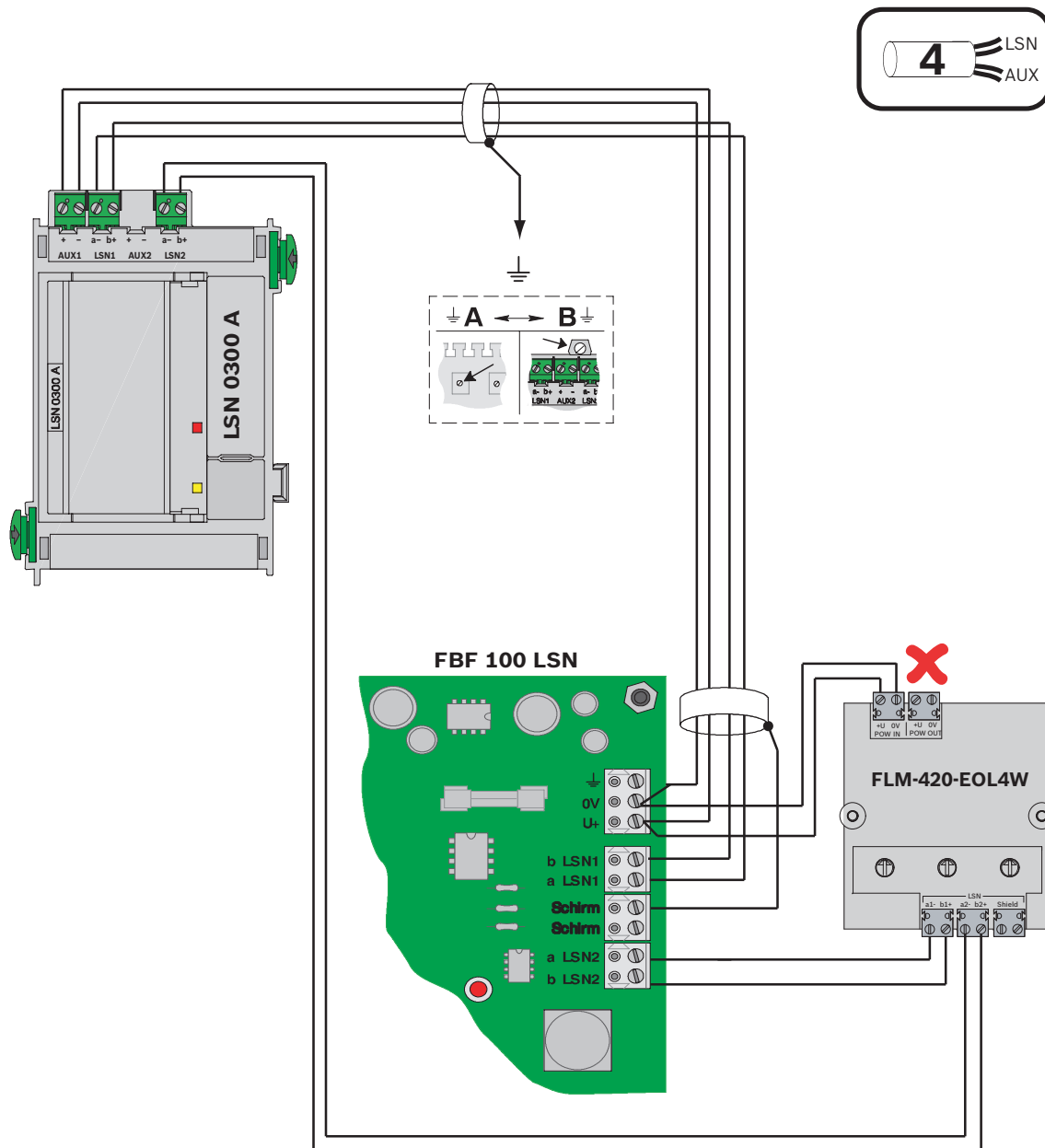


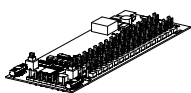


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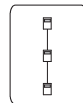


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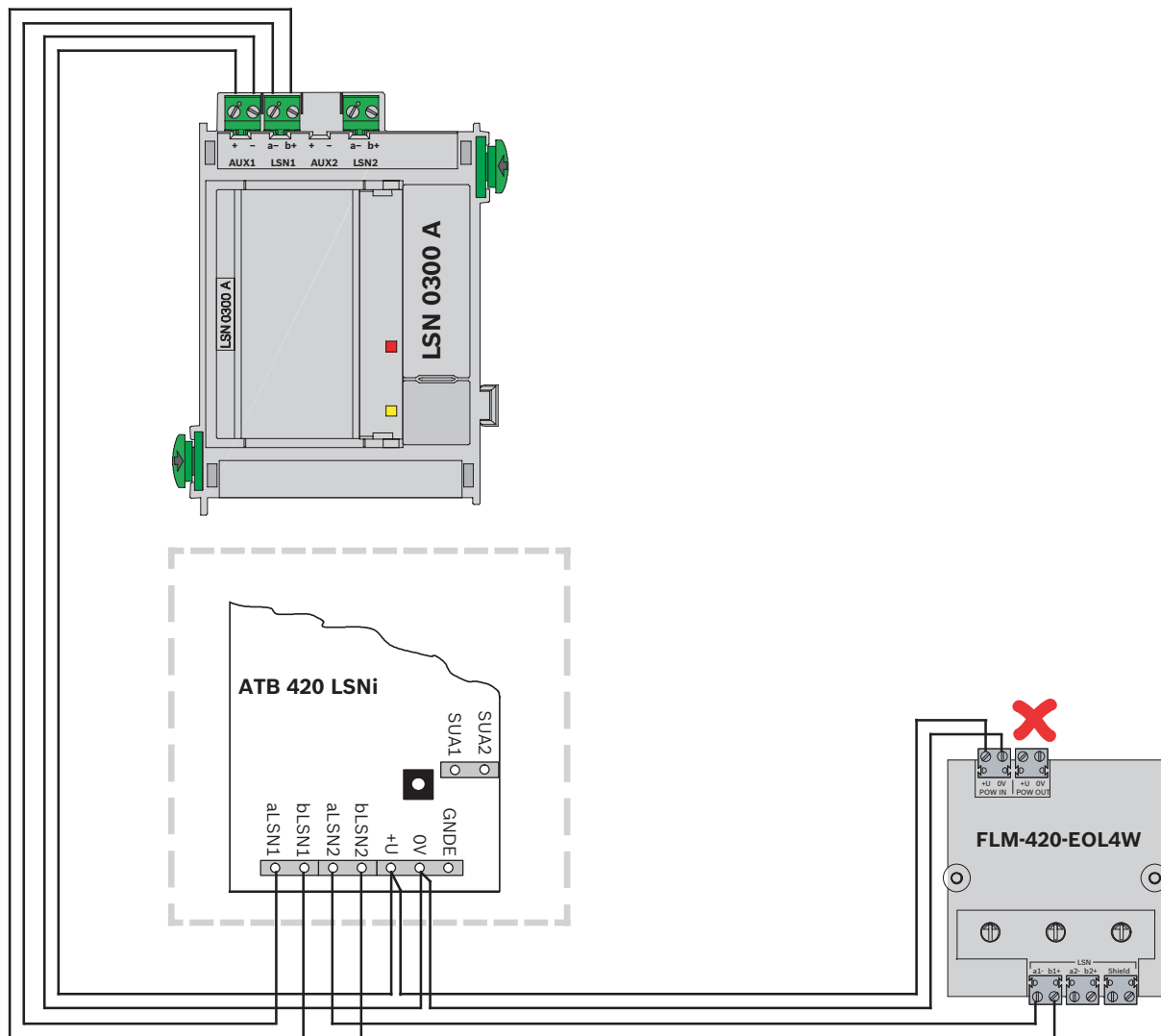


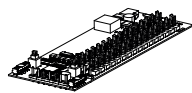


ATB 420 LSNi

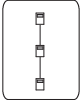


ELS VdS 2489

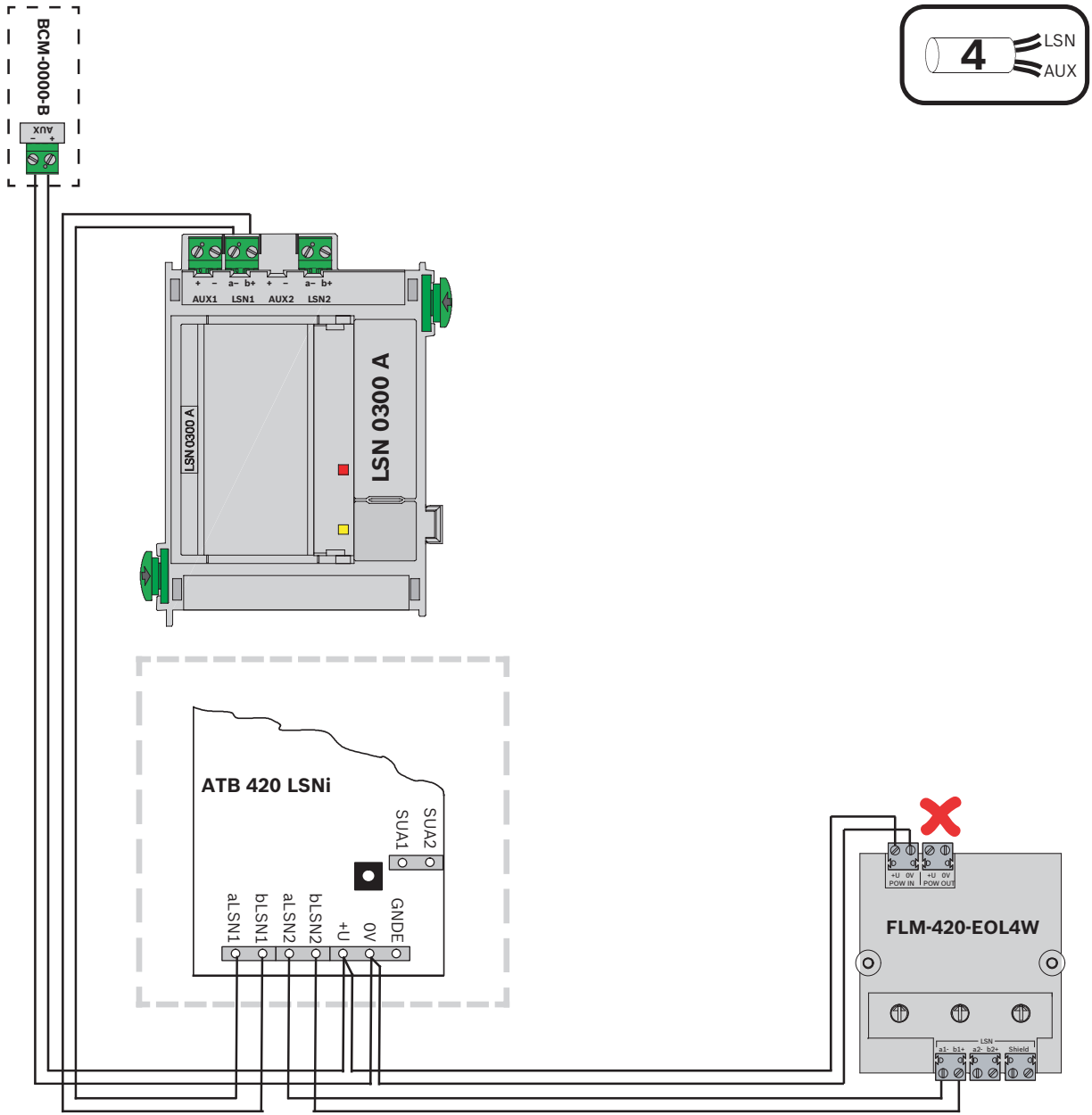


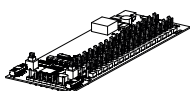


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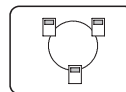


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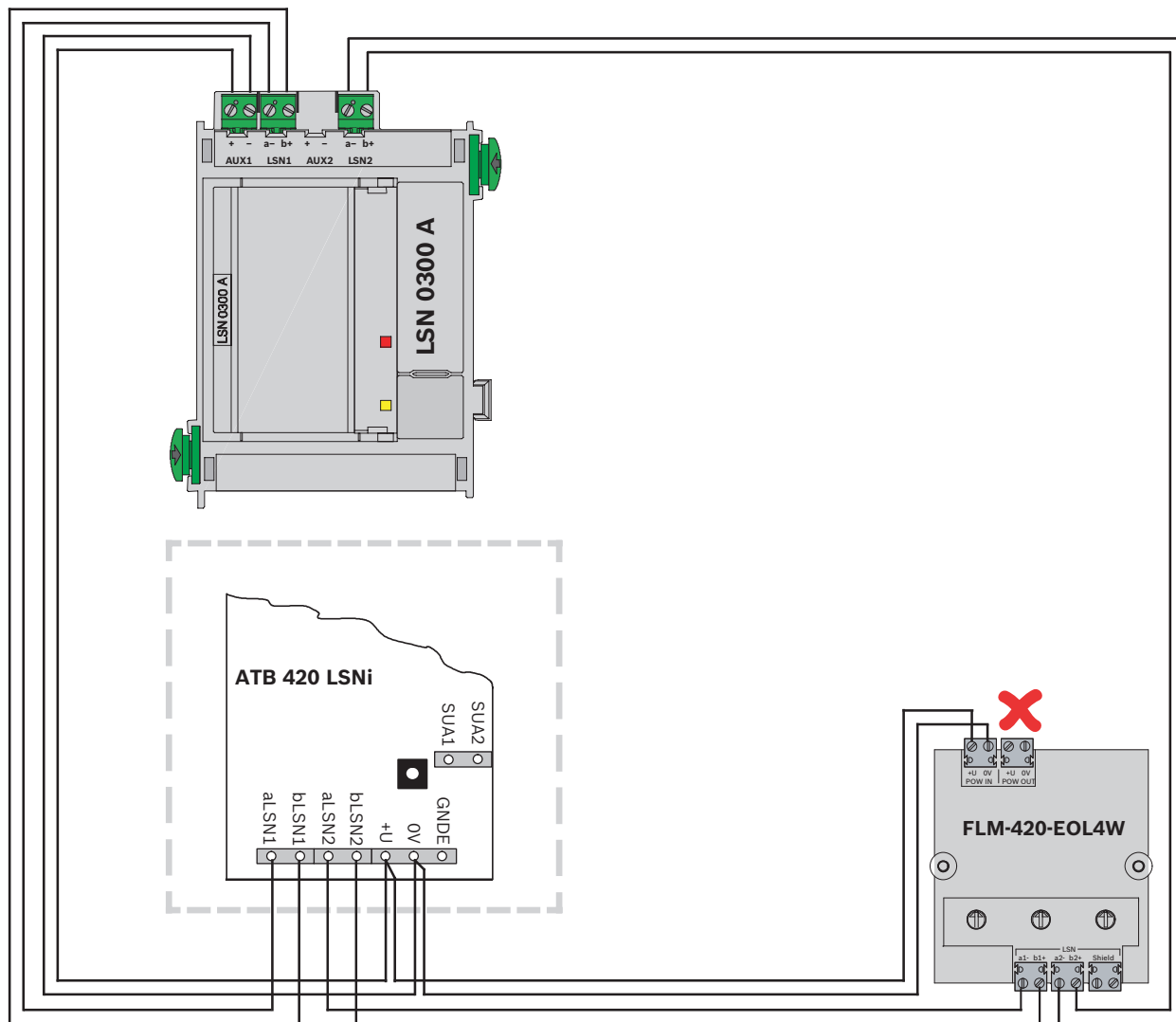
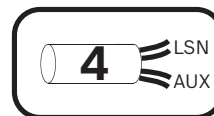


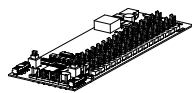


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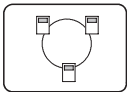


ELS VdS 2489

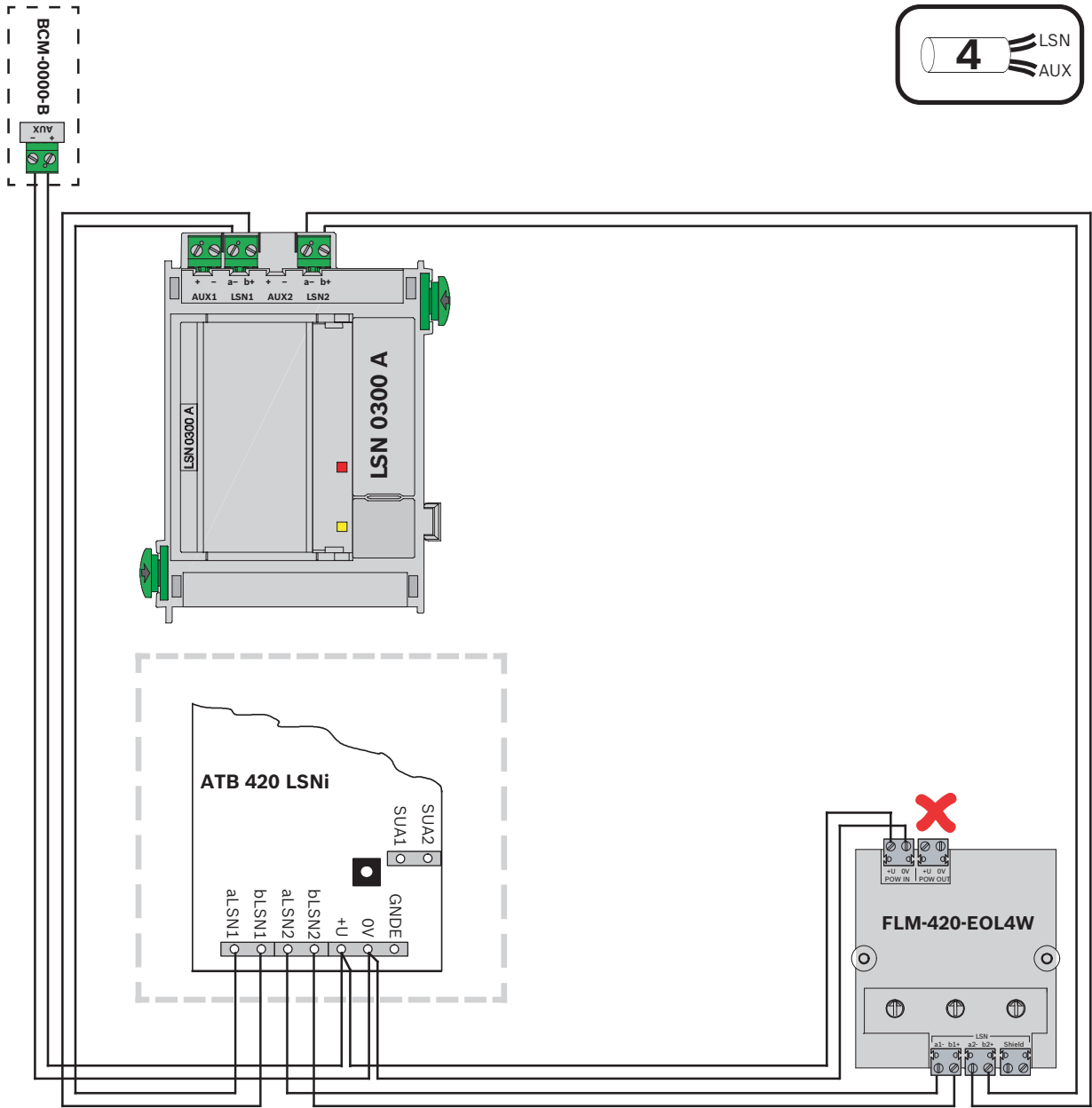




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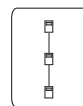


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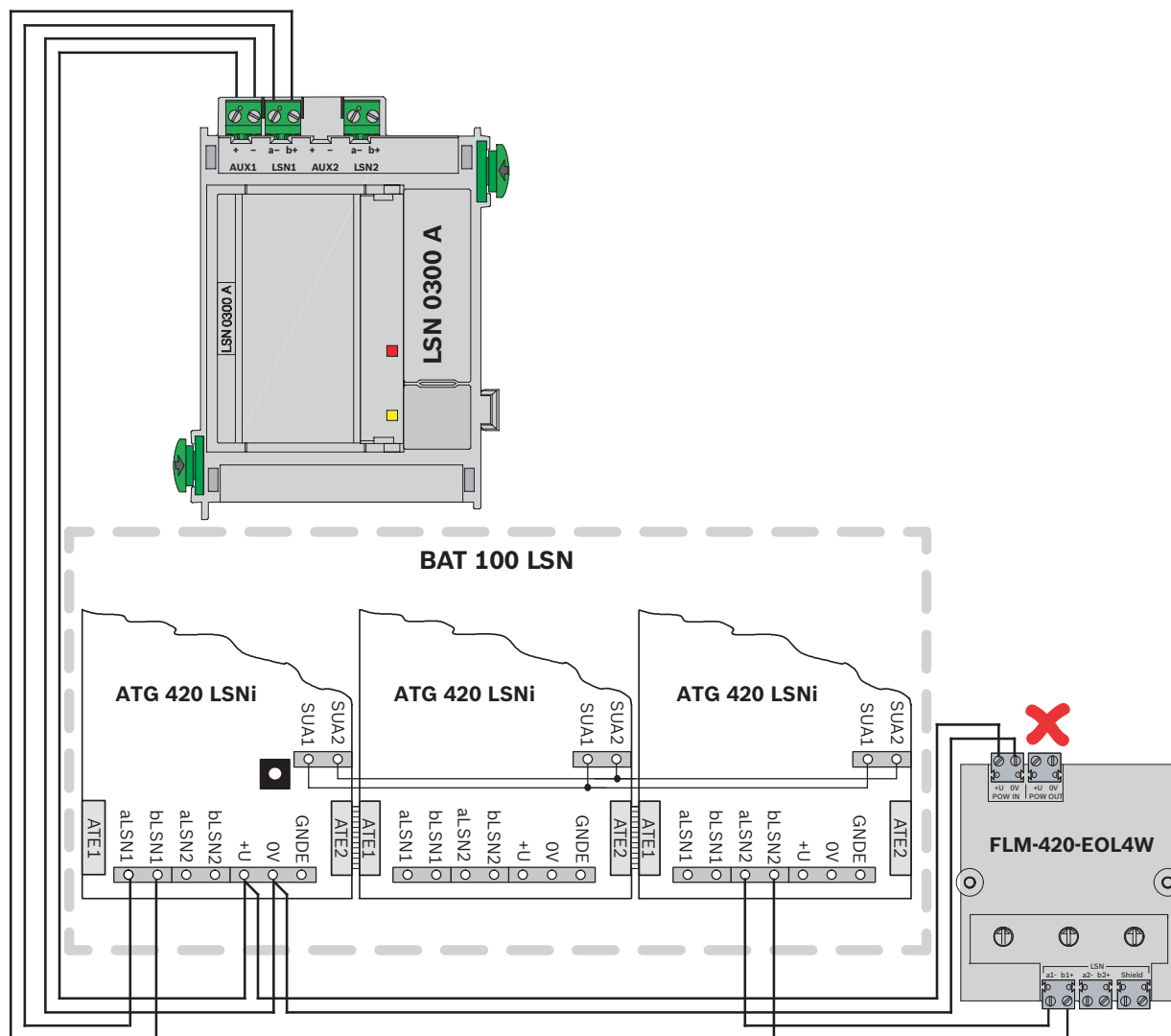
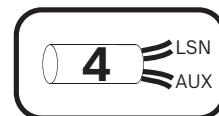




BAT 100 LSN
ATG 420 LSNi

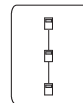


ELS **VdS 2489**

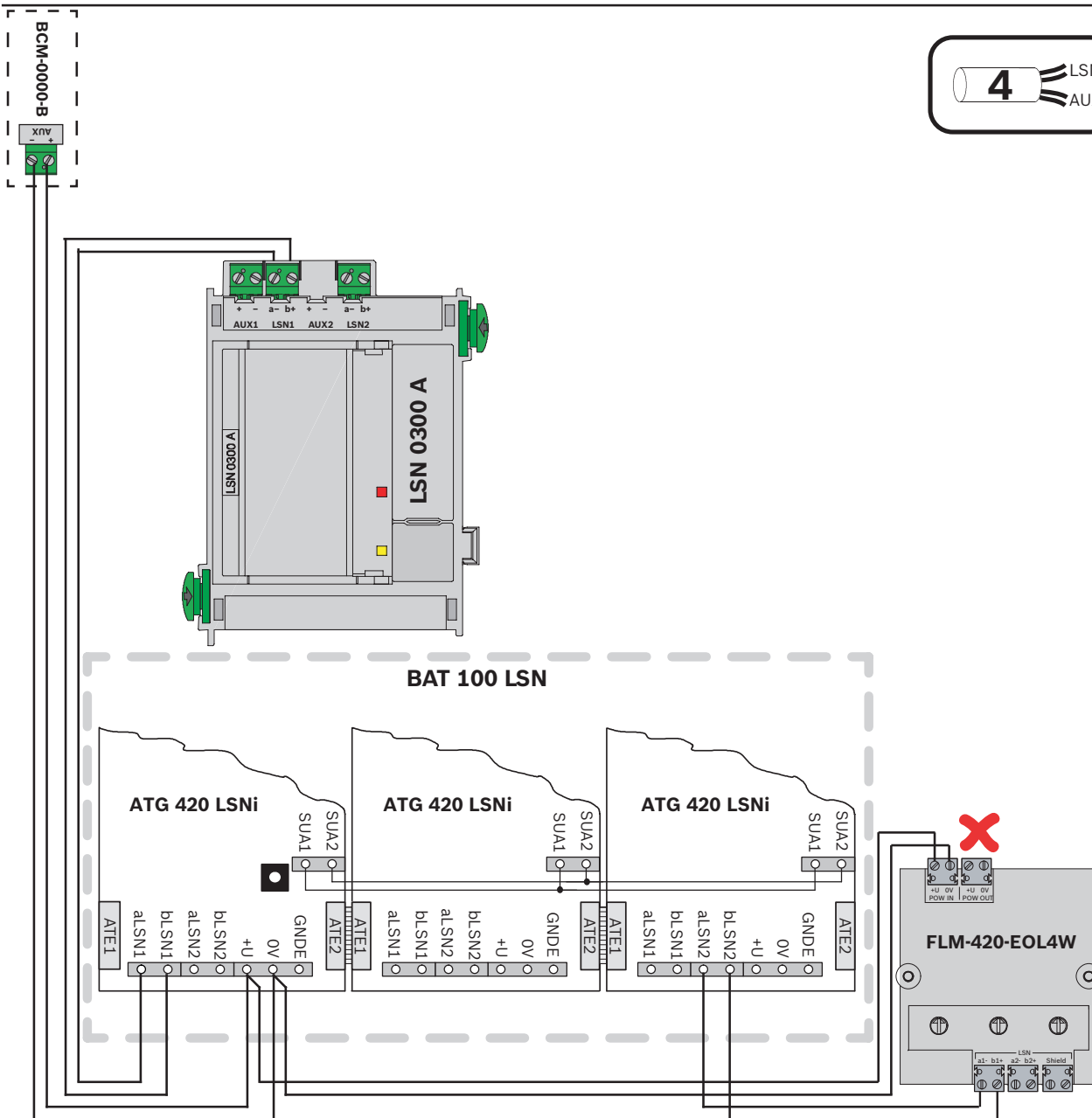
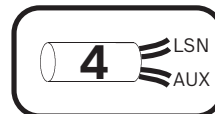




BAT 100 LSN
ATG 420 LSNi

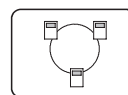


ELS VdS 2489

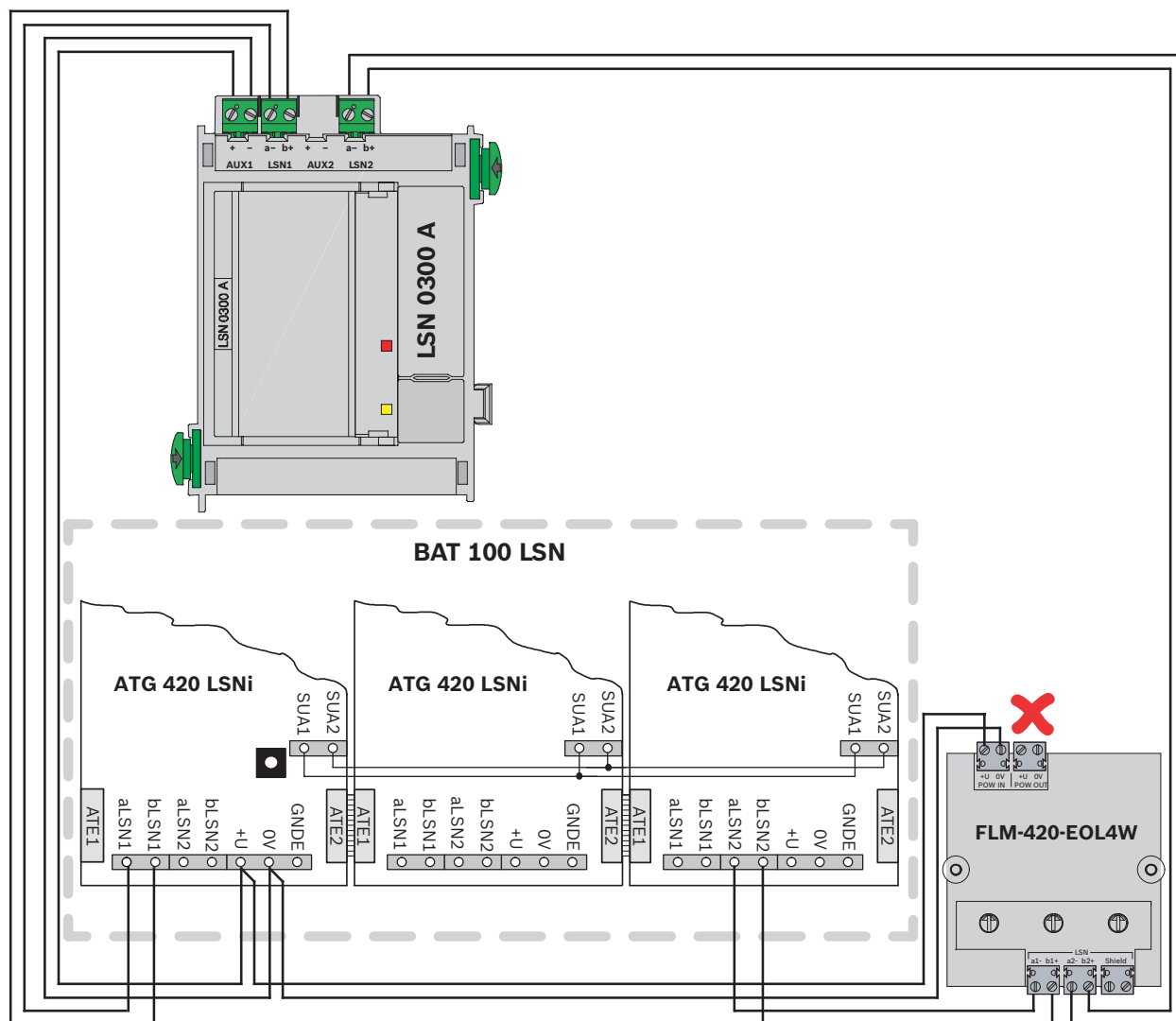




BAT 100 LSN
ATG 420 LSNi

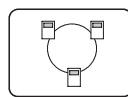


ELS VdS 2489

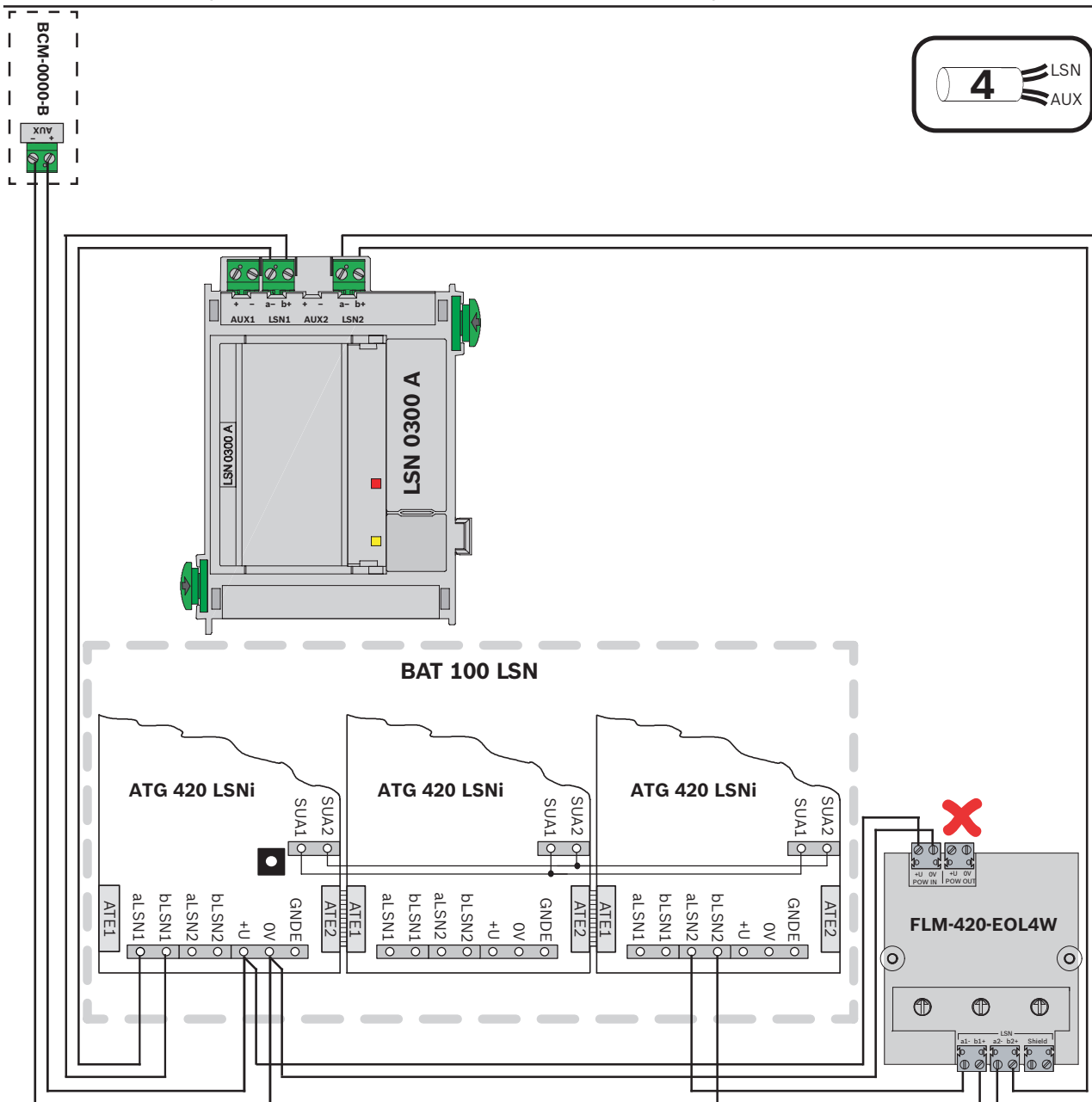


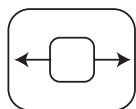


BAT 100 LSN
ATG 420 LSNi

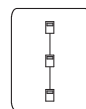


ELS VdS 2489

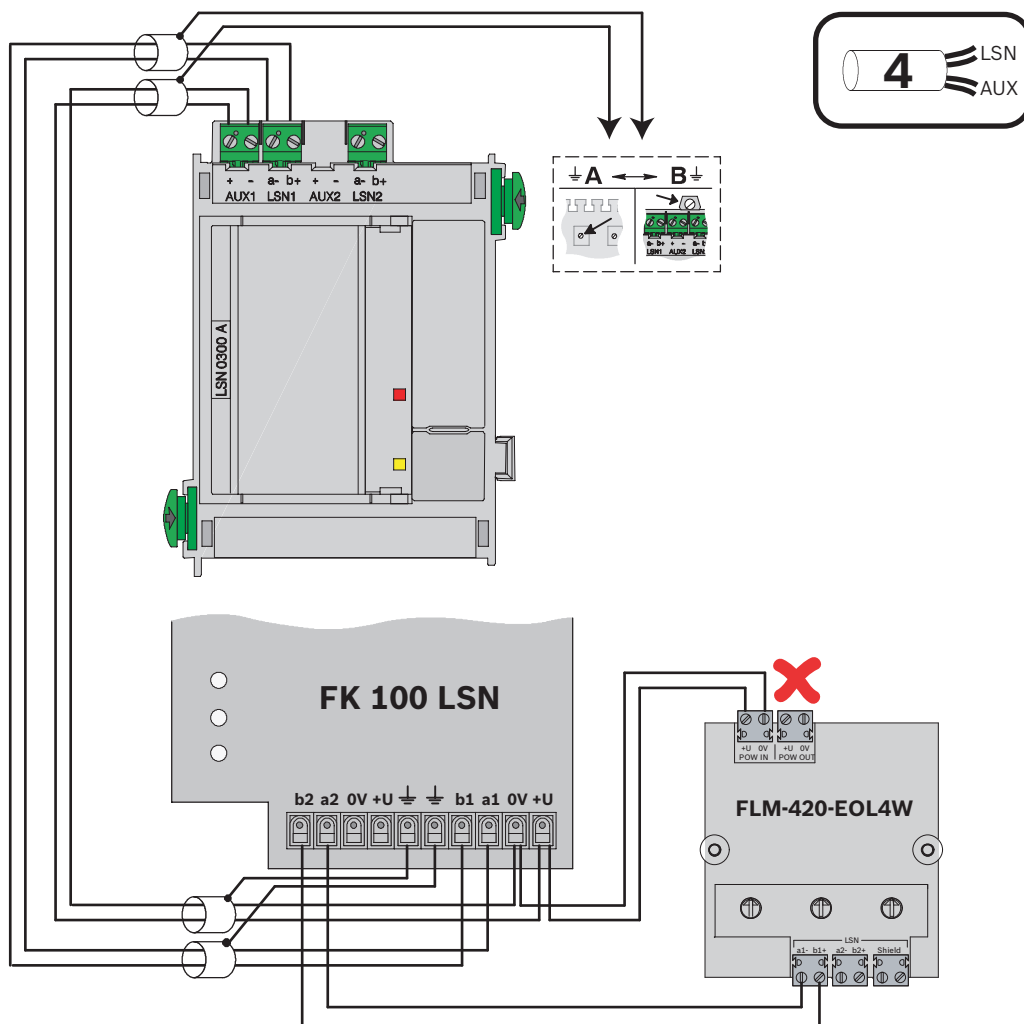
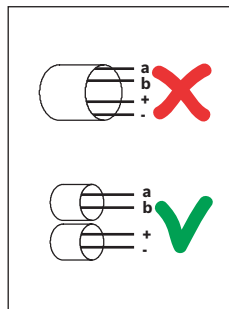


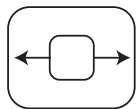


FK 100 LSN

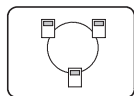


ELS VdS 2489

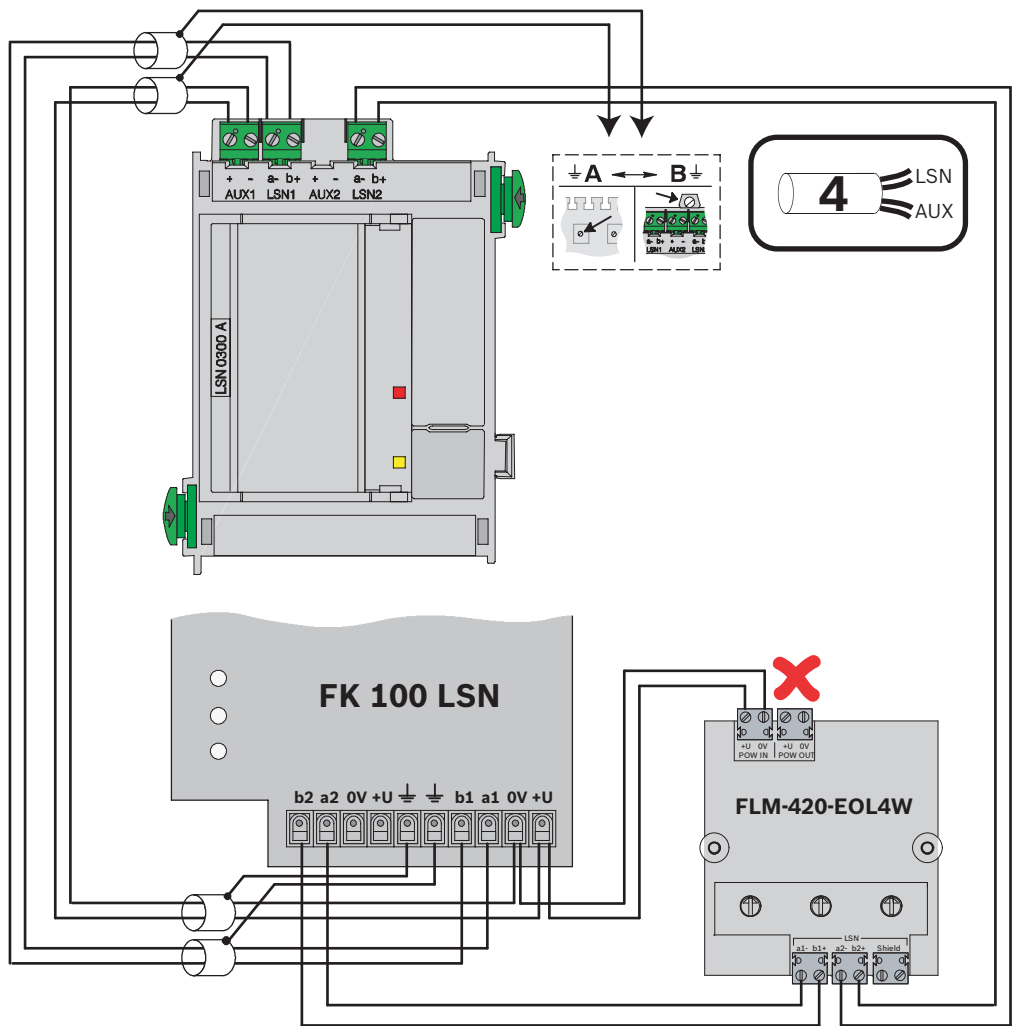
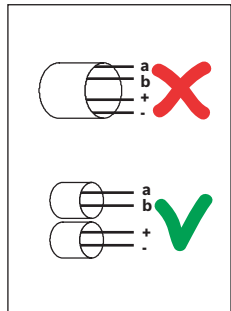




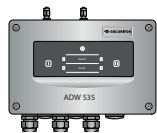
FK 100 LSN



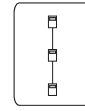
ELS VdS 2489



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

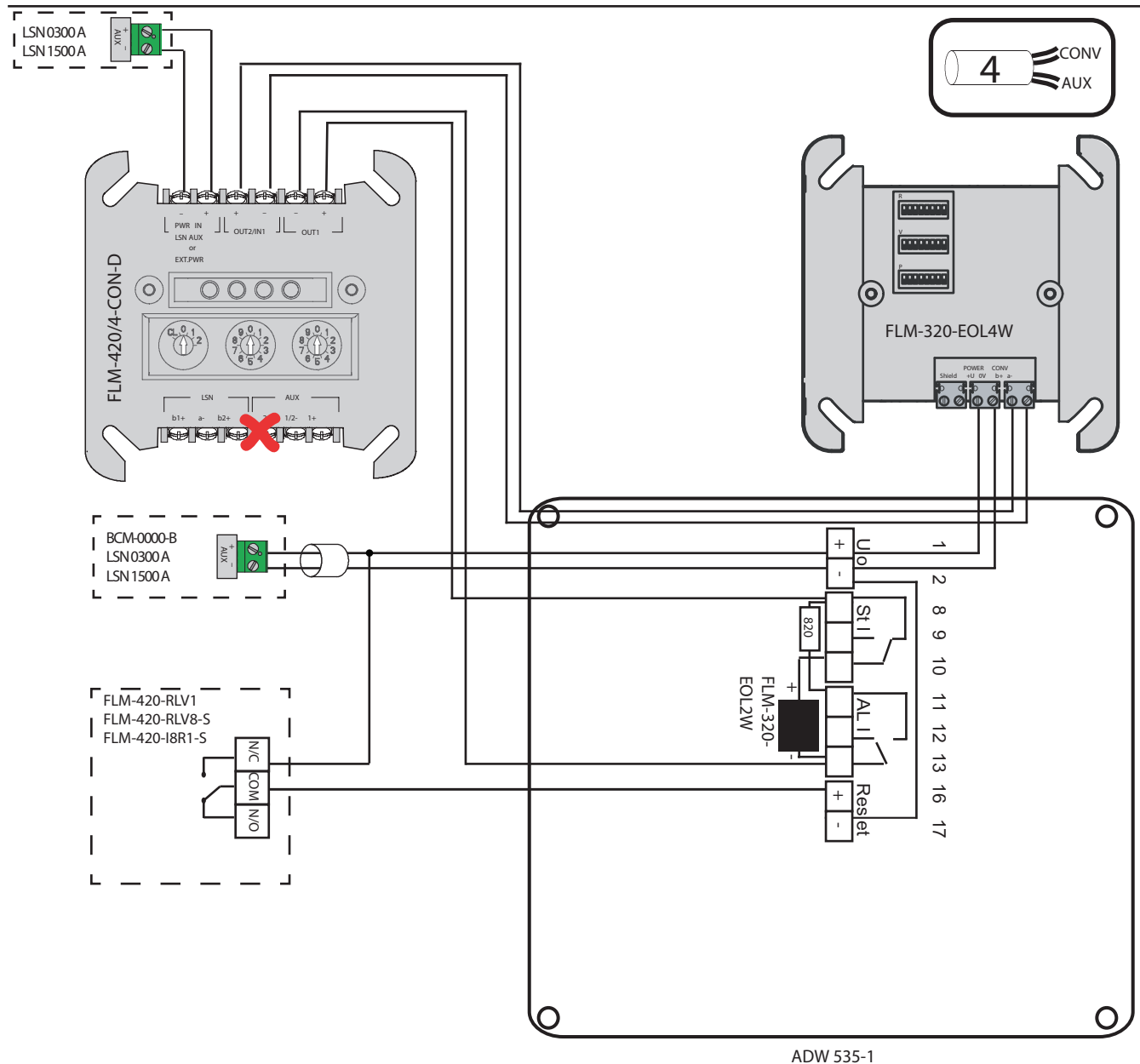


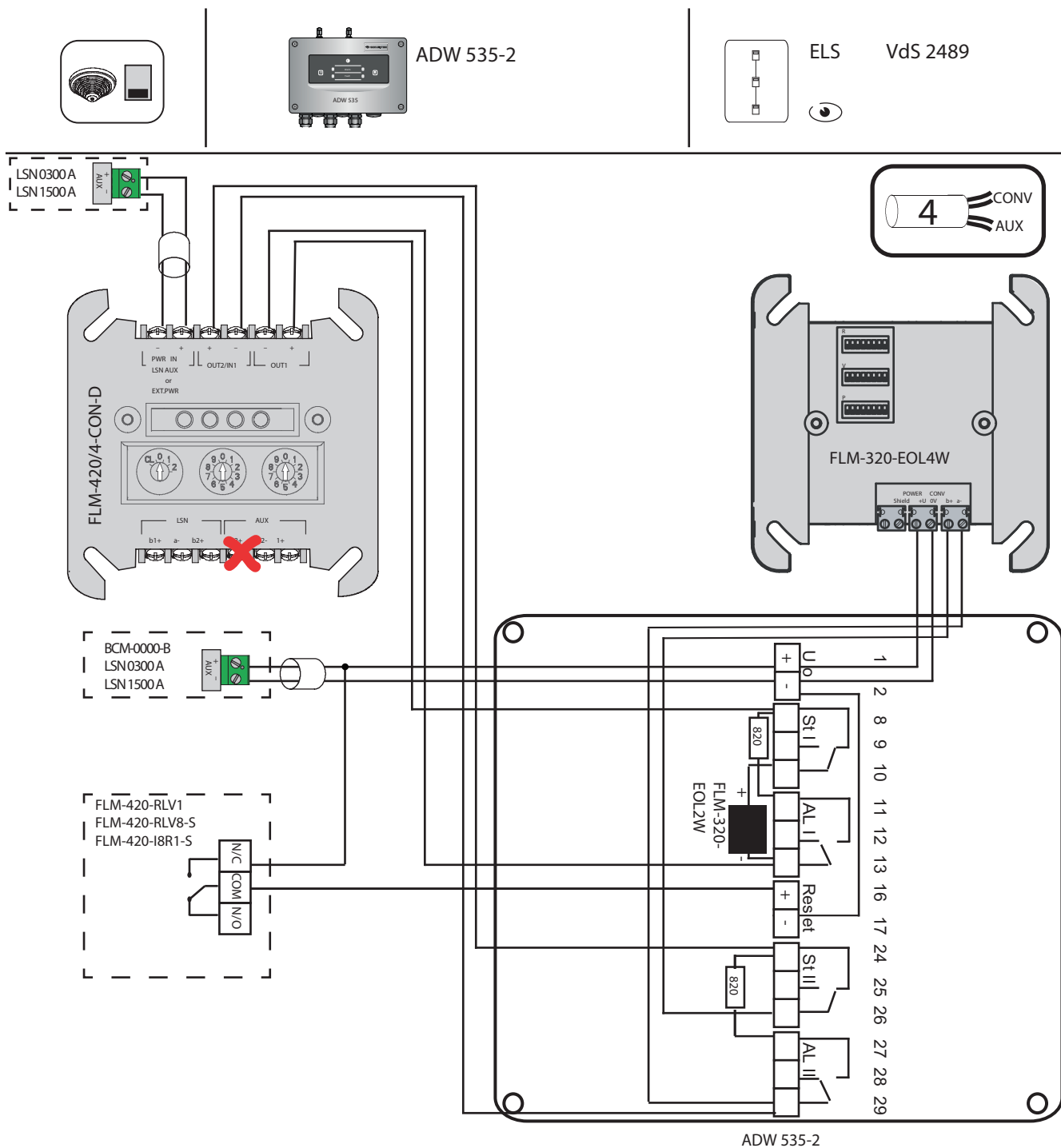
ADW 535-1



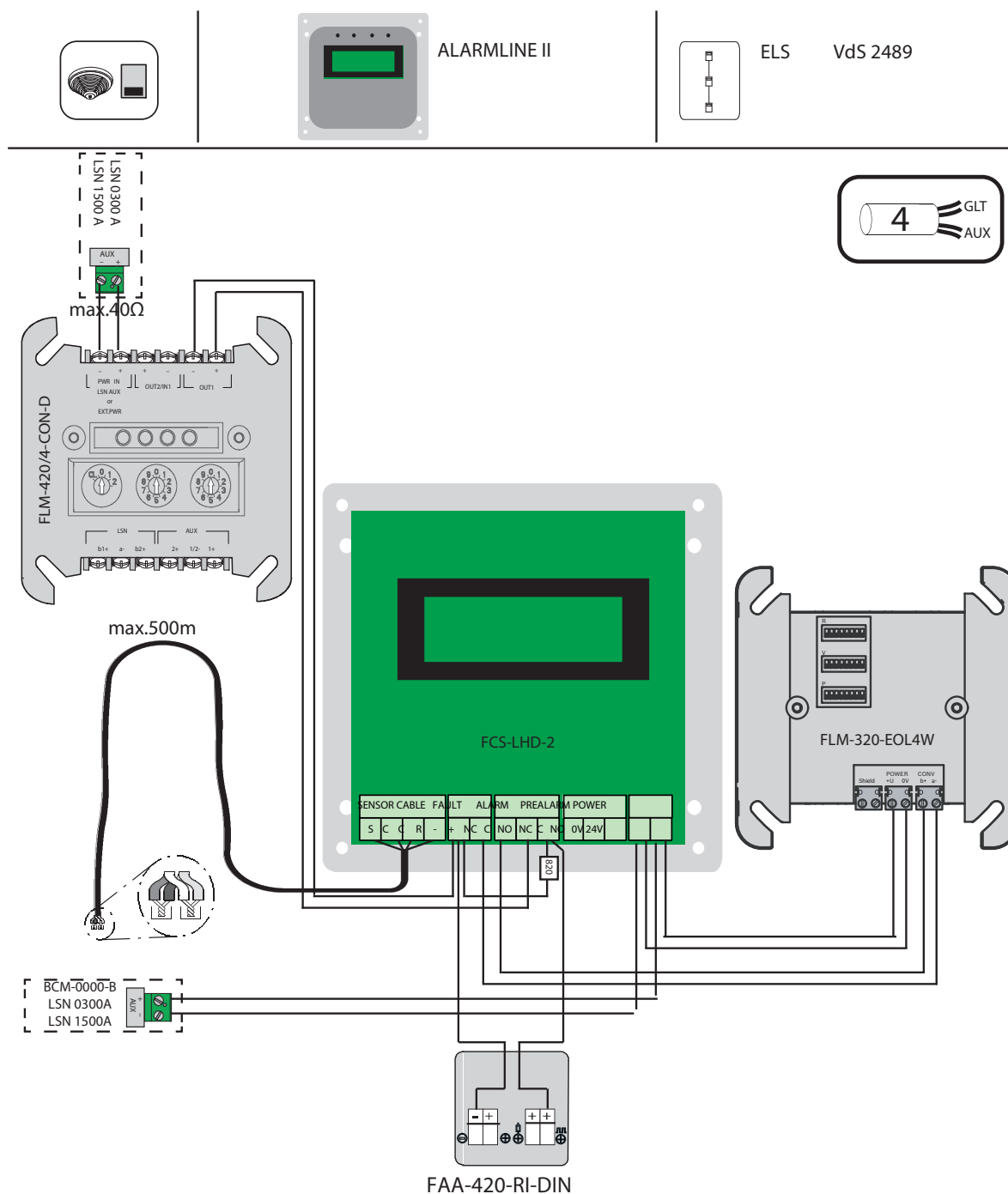
ELS

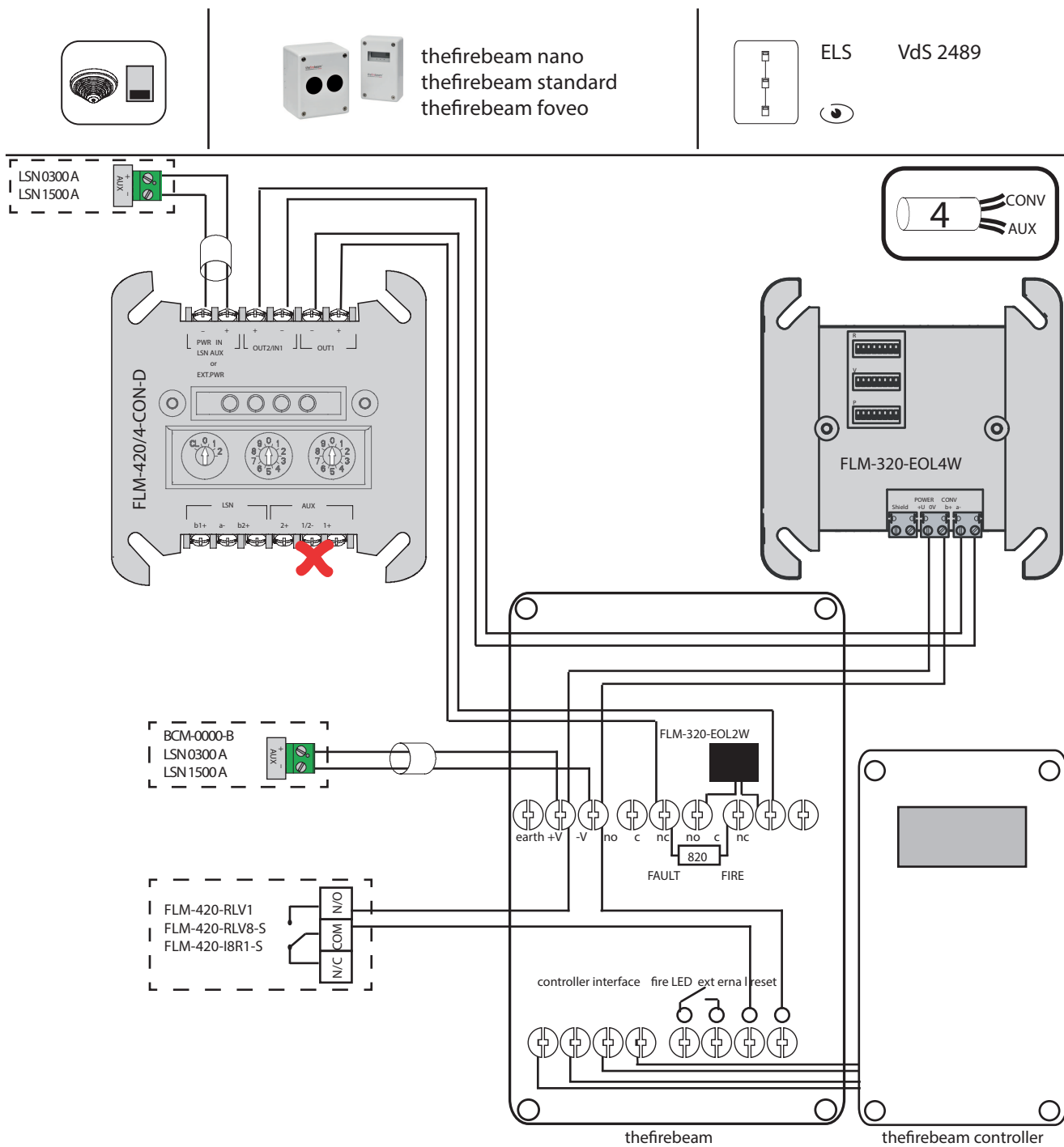
VdS 2489

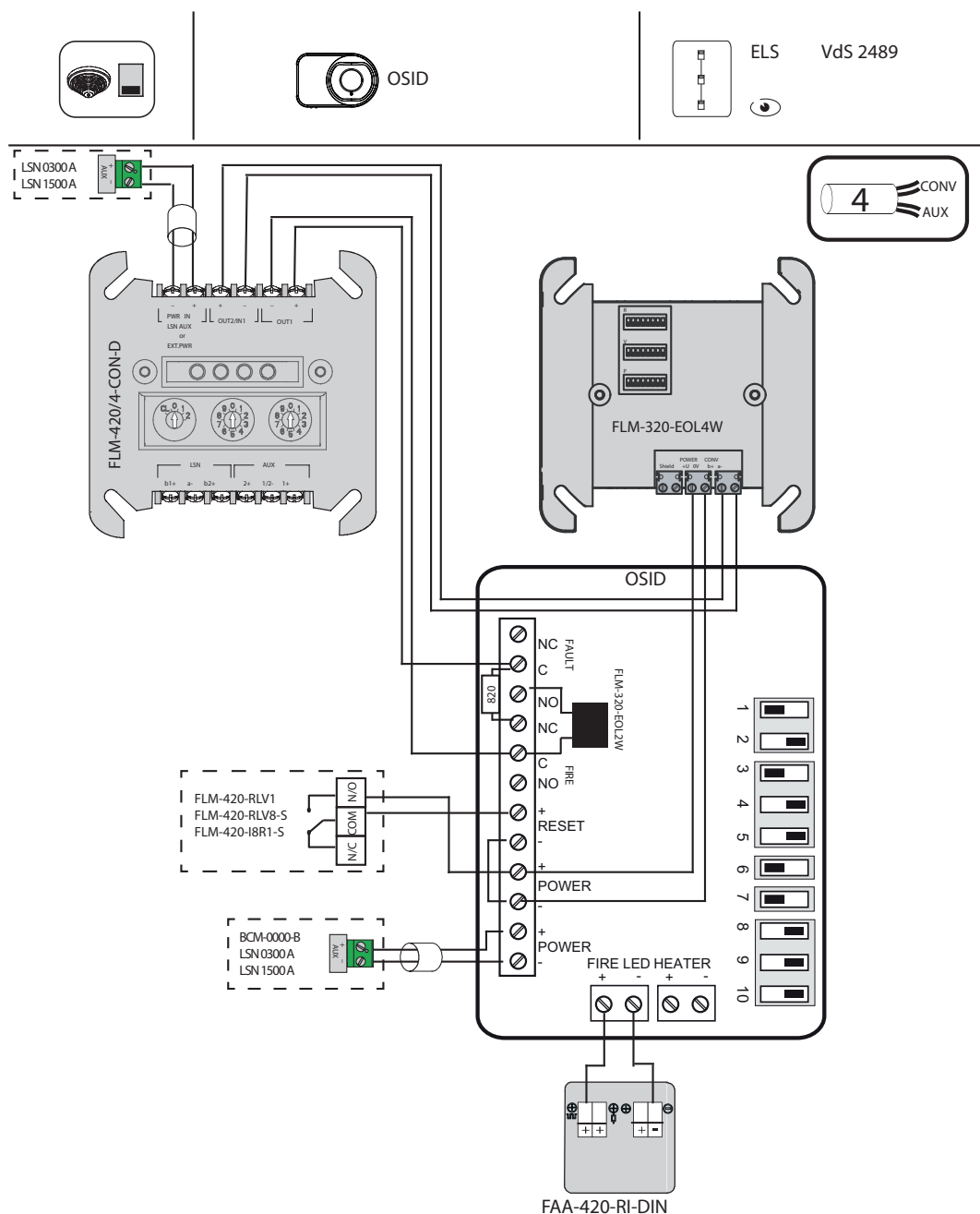


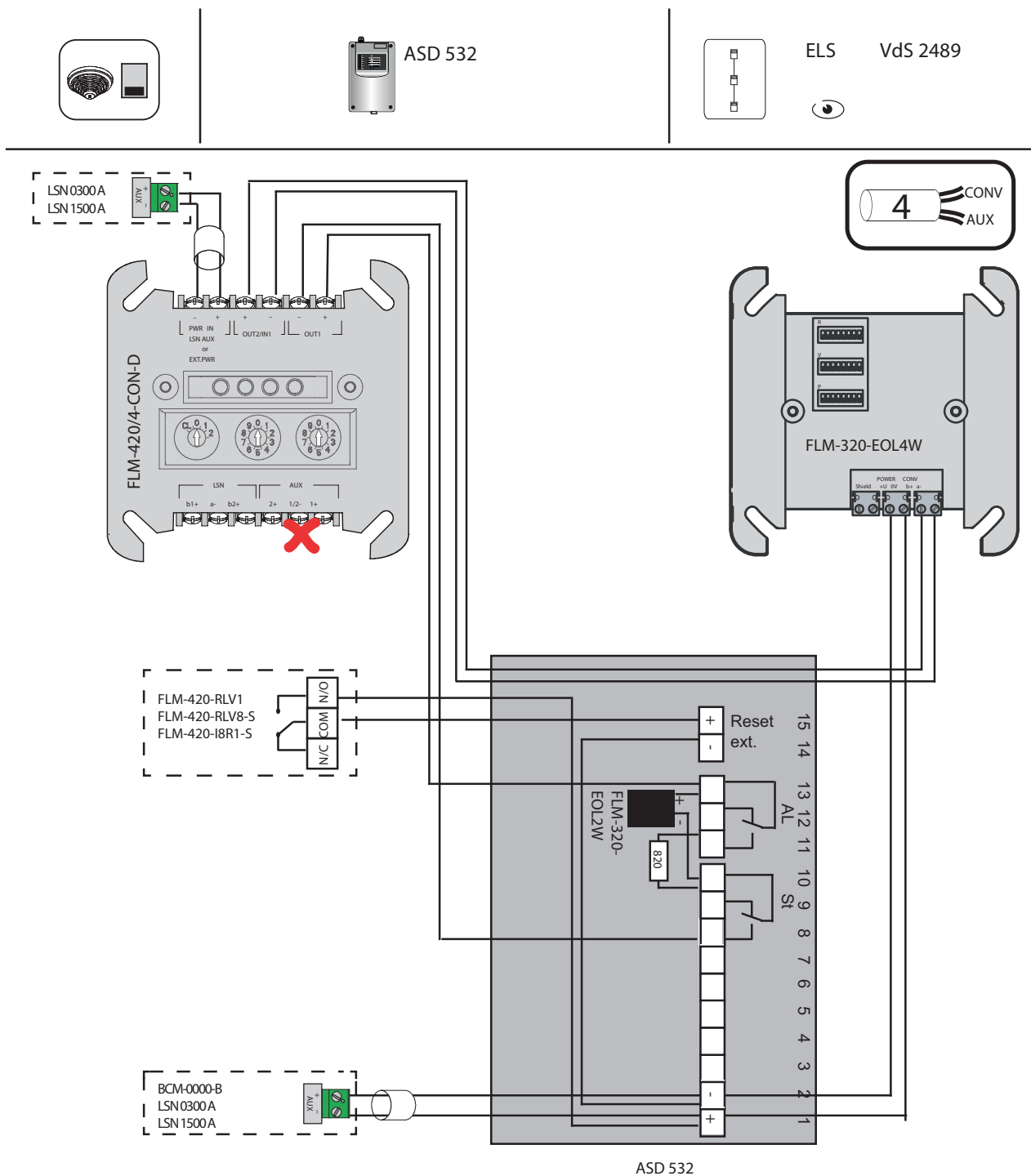


ADW 535-2



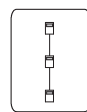






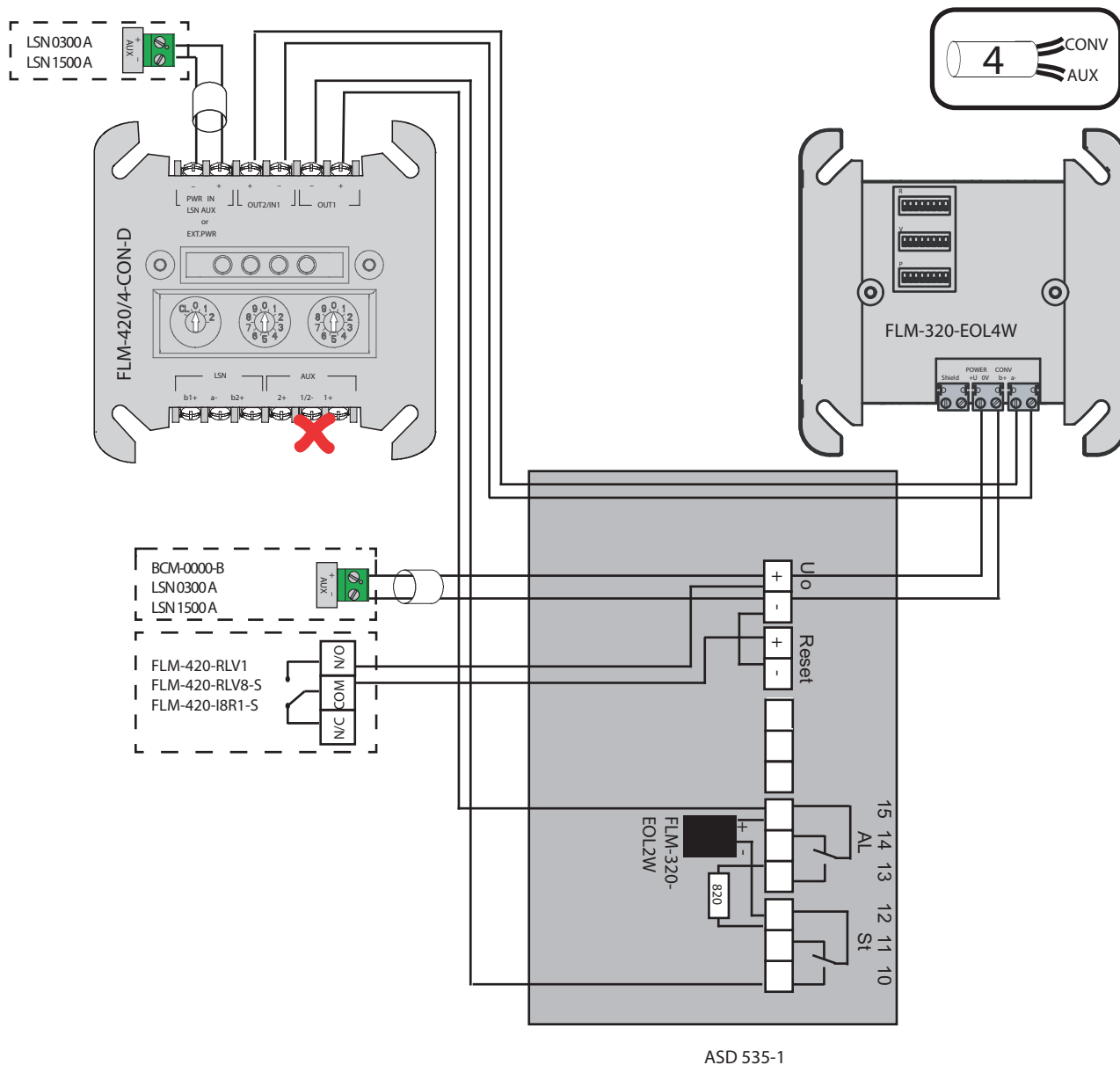


ASD 535-1



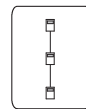
ELS

VdS 2489



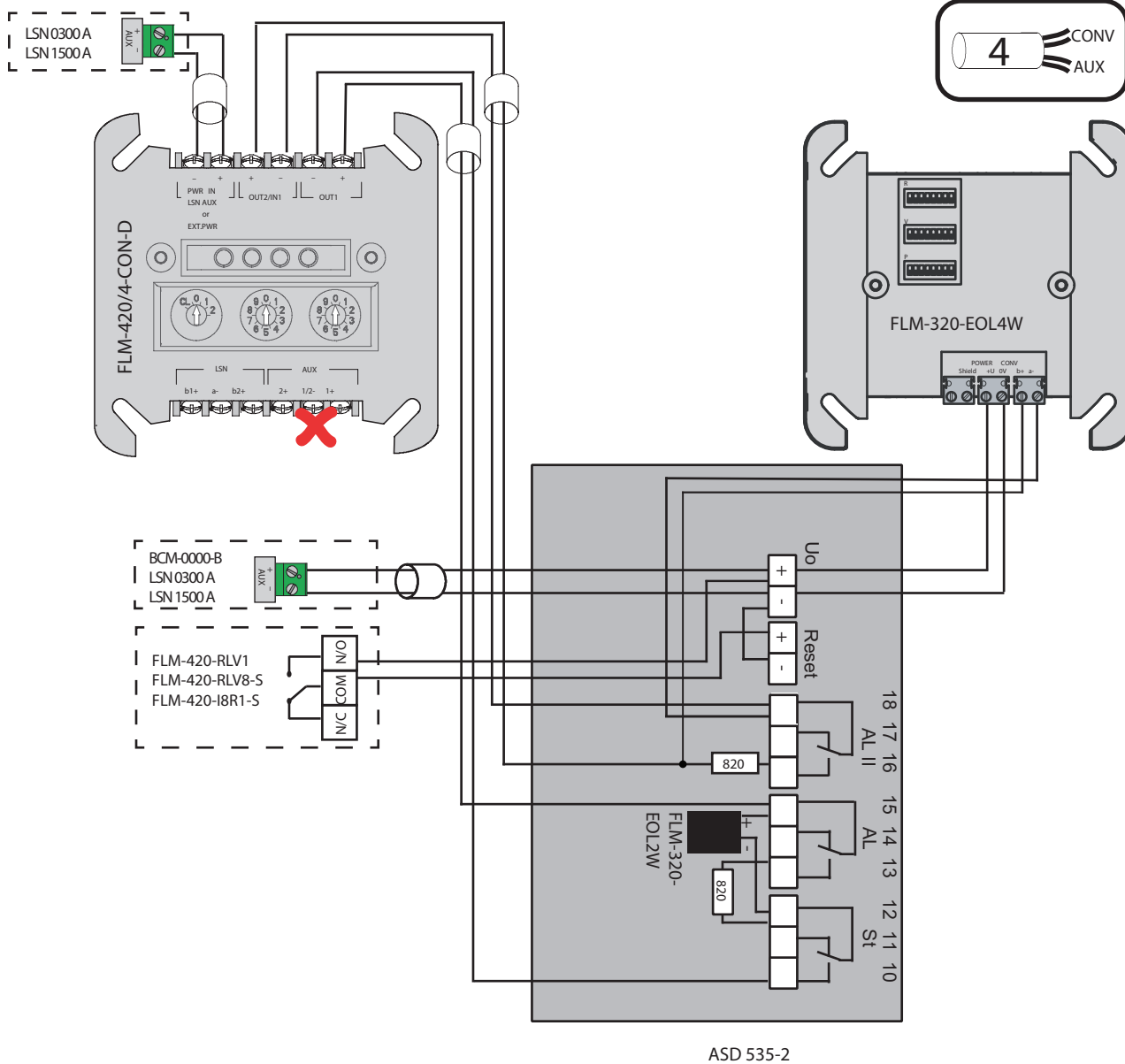


ASD 535-2



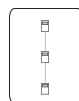
ELS

VdS 2489



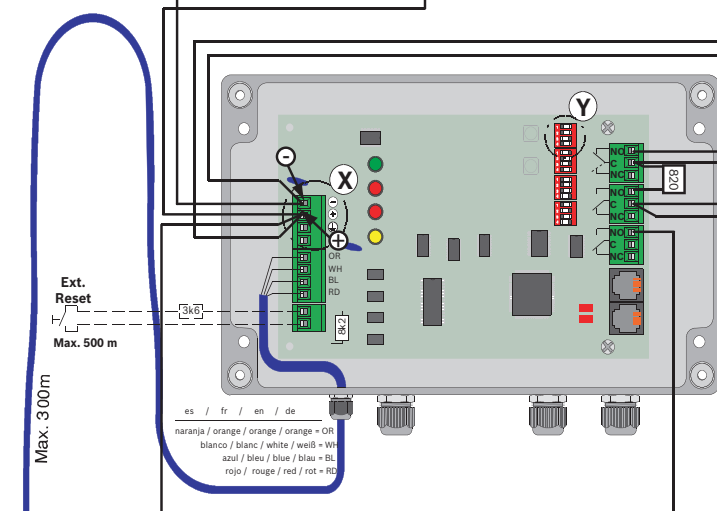
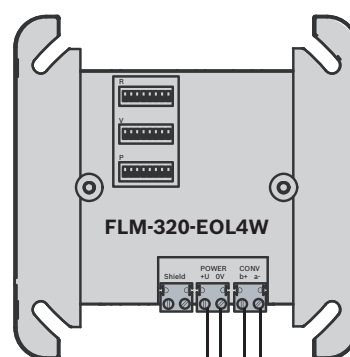
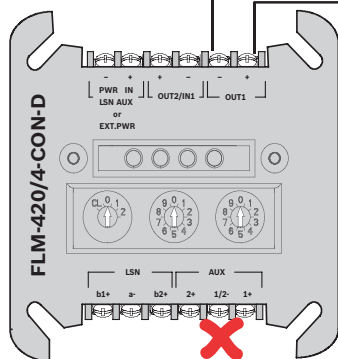
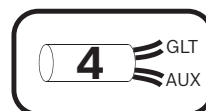


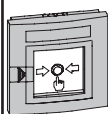
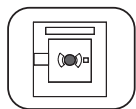
FCS-LWM-1



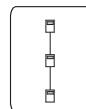
ELS VdS 2489

BCM-0000-B
LSN 0300 A
LSN 1500 A

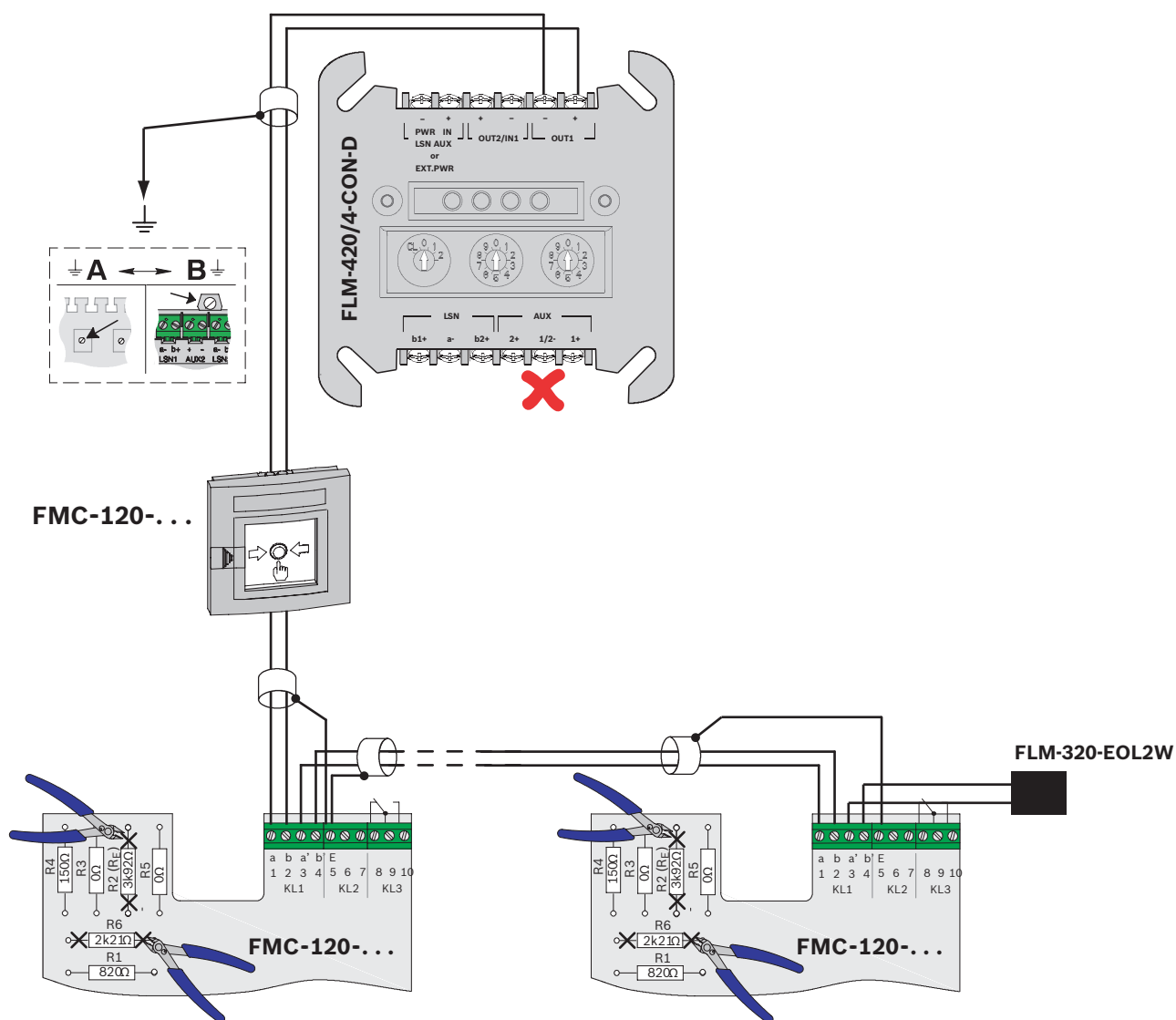


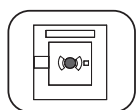


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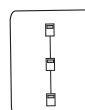


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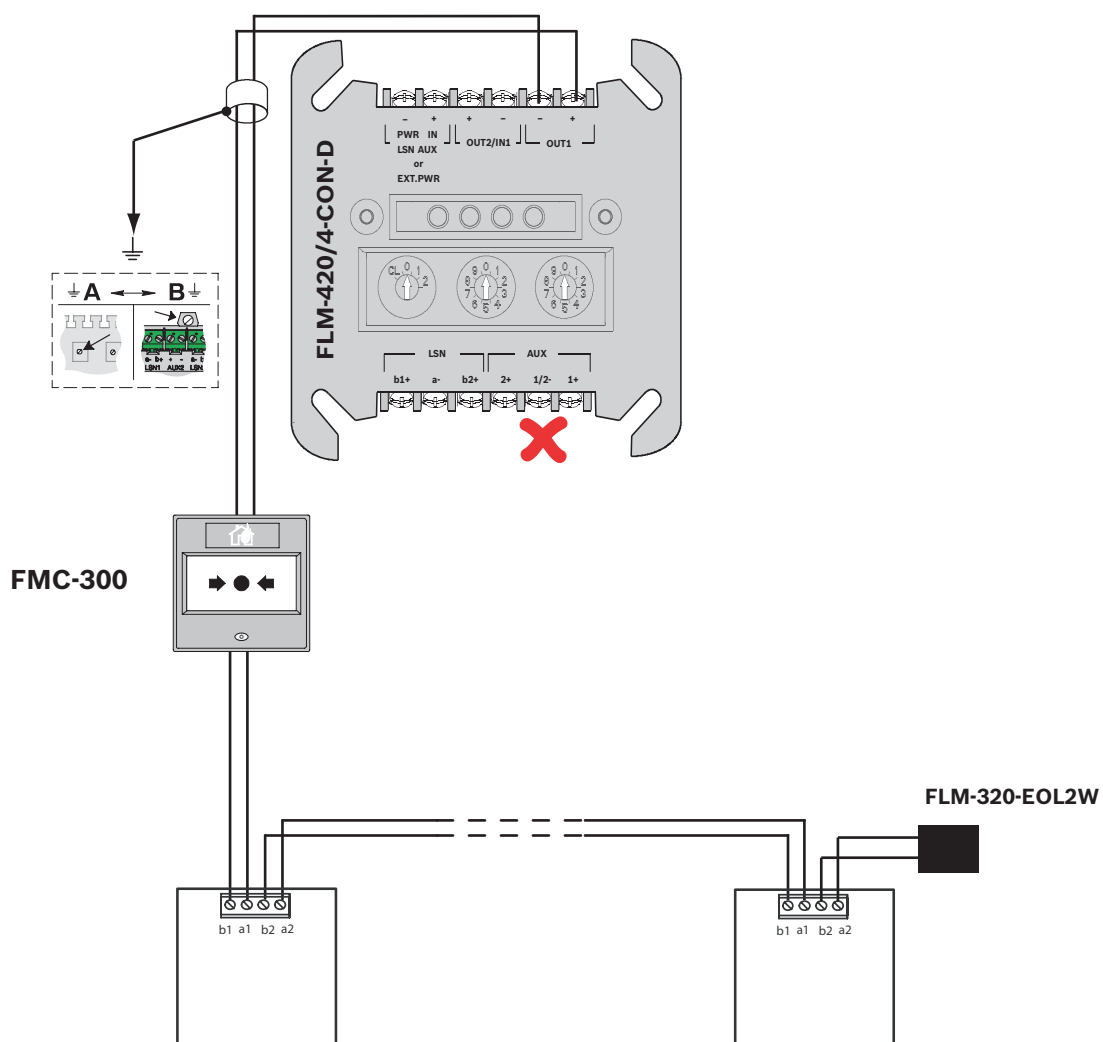




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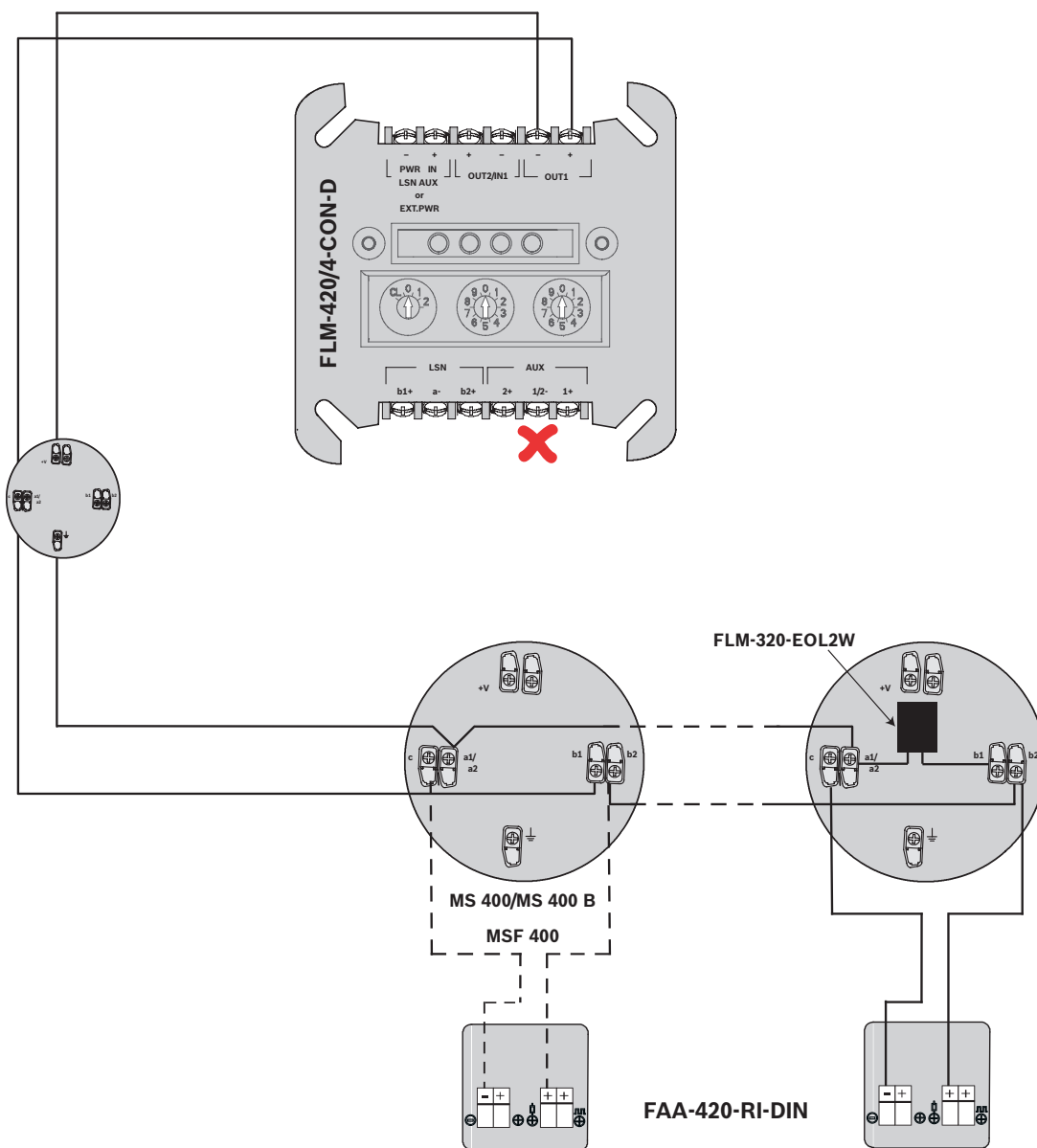




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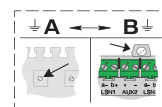
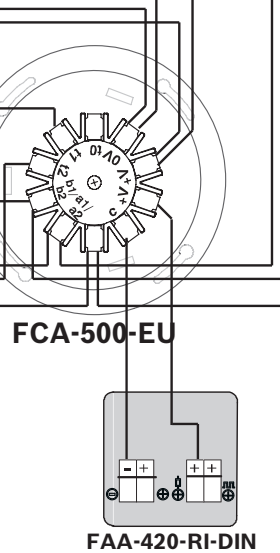
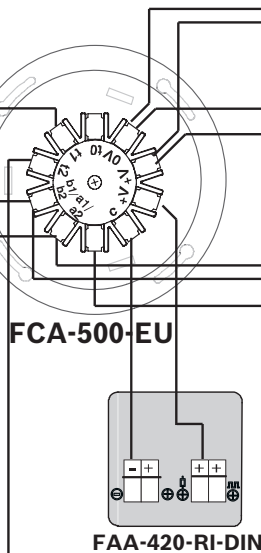
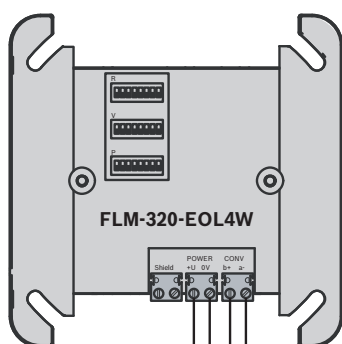
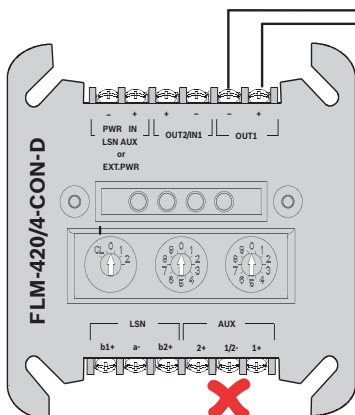
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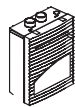


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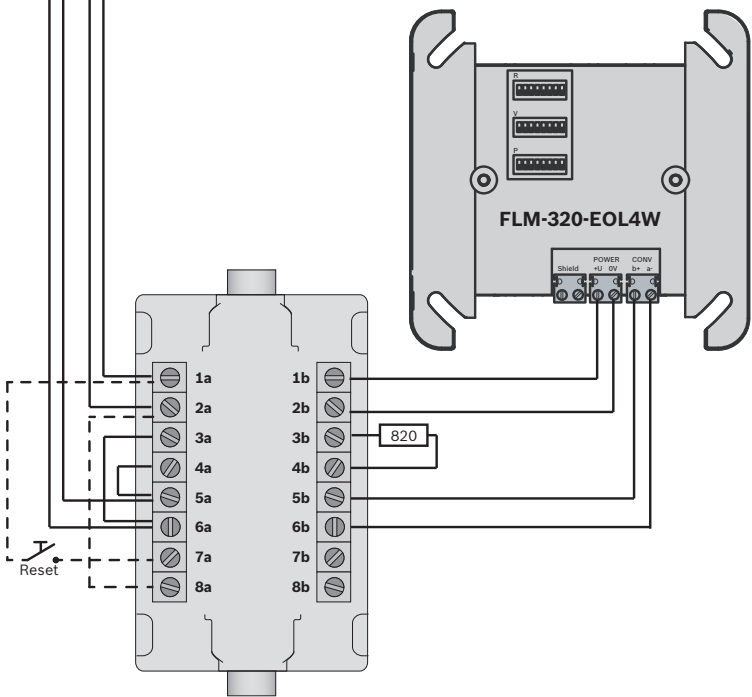
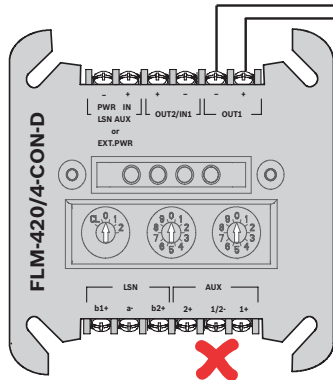
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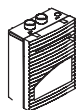


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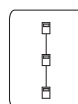


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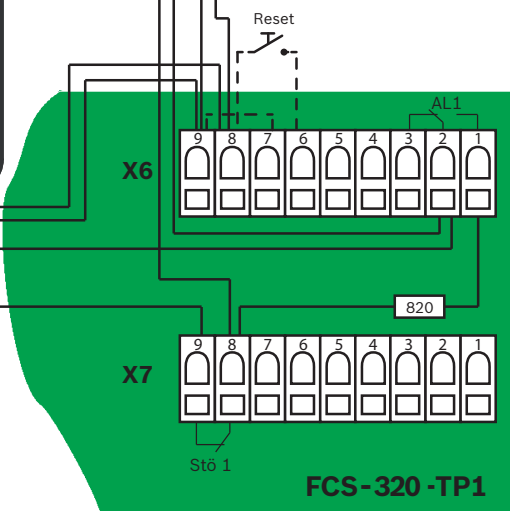
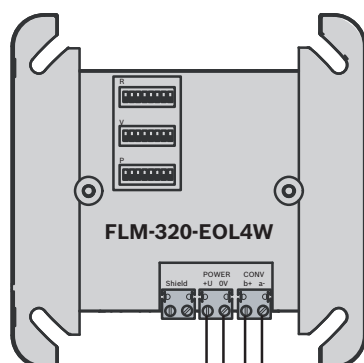
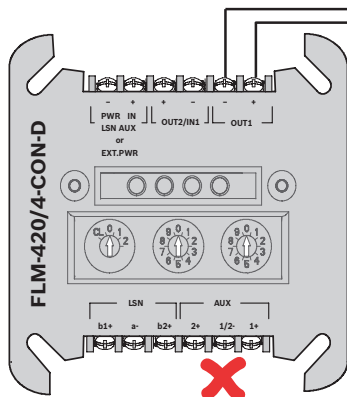
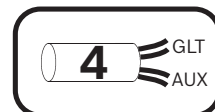
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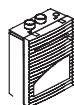


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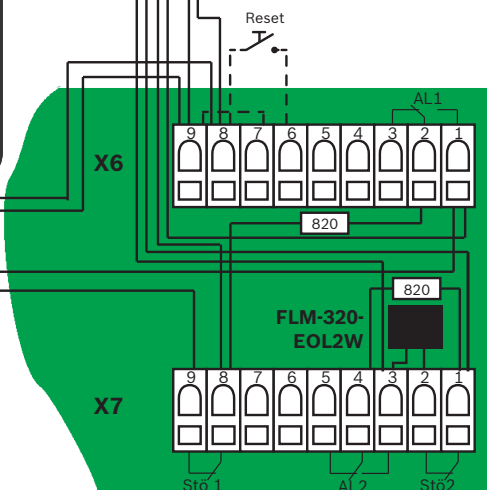
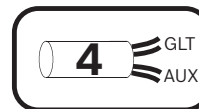
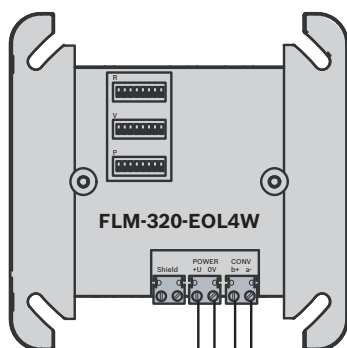
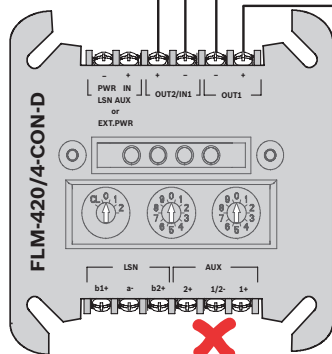


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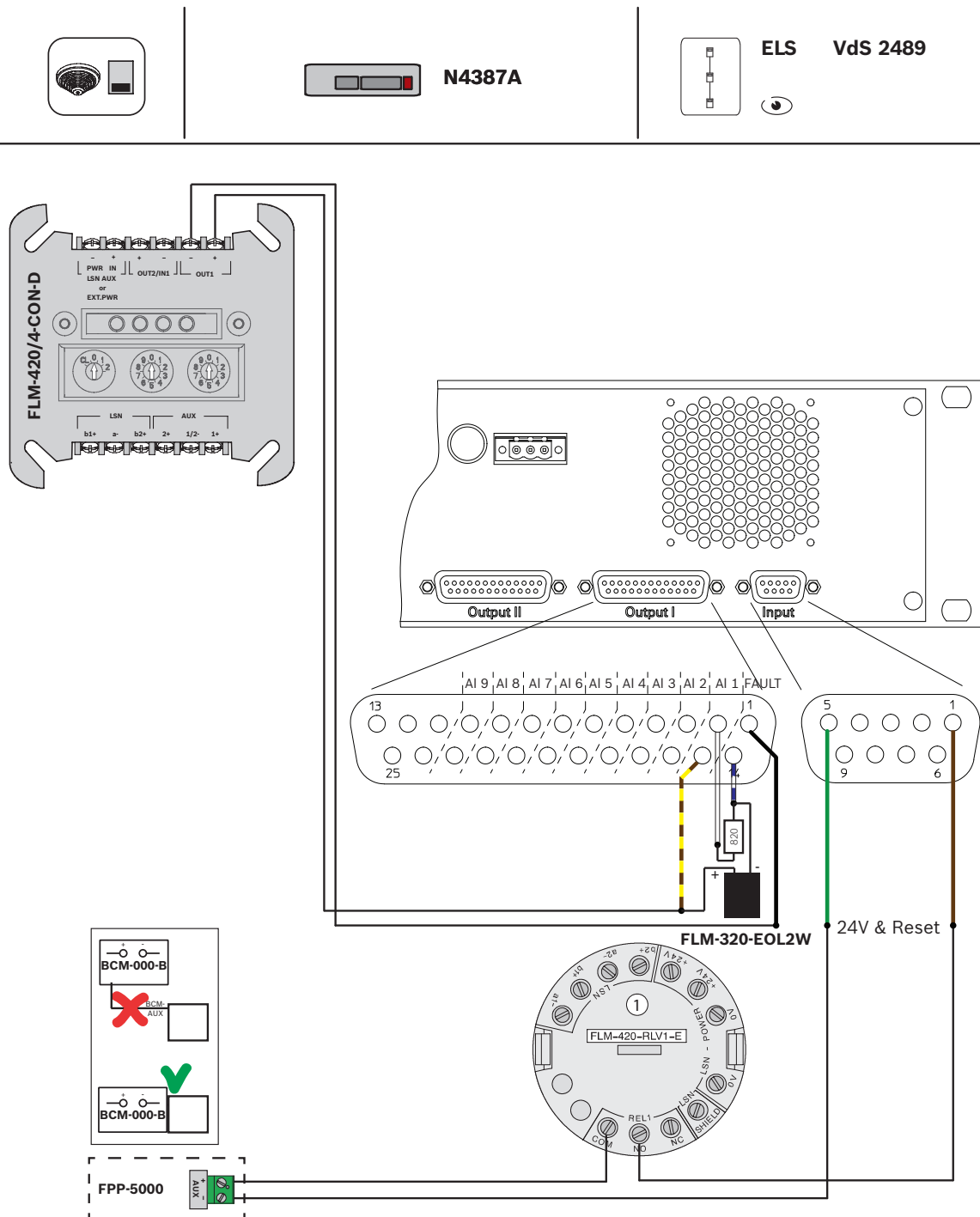


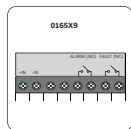
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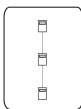


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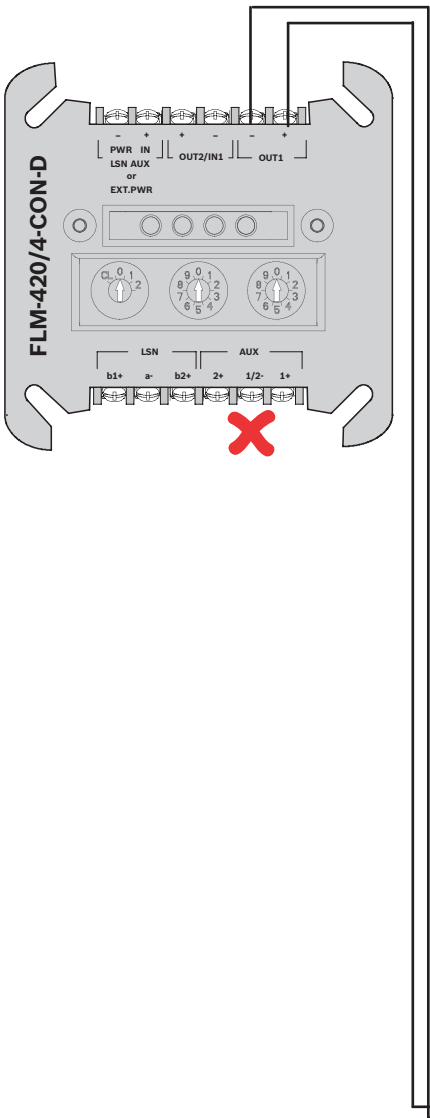




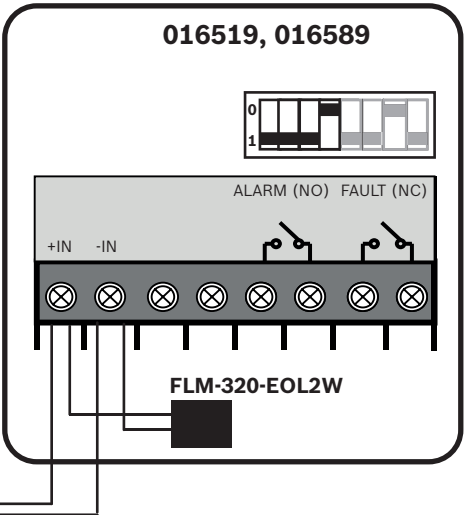
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IR3 Flame Detector

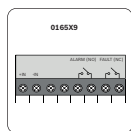


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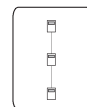


max. 1 x 0165X9

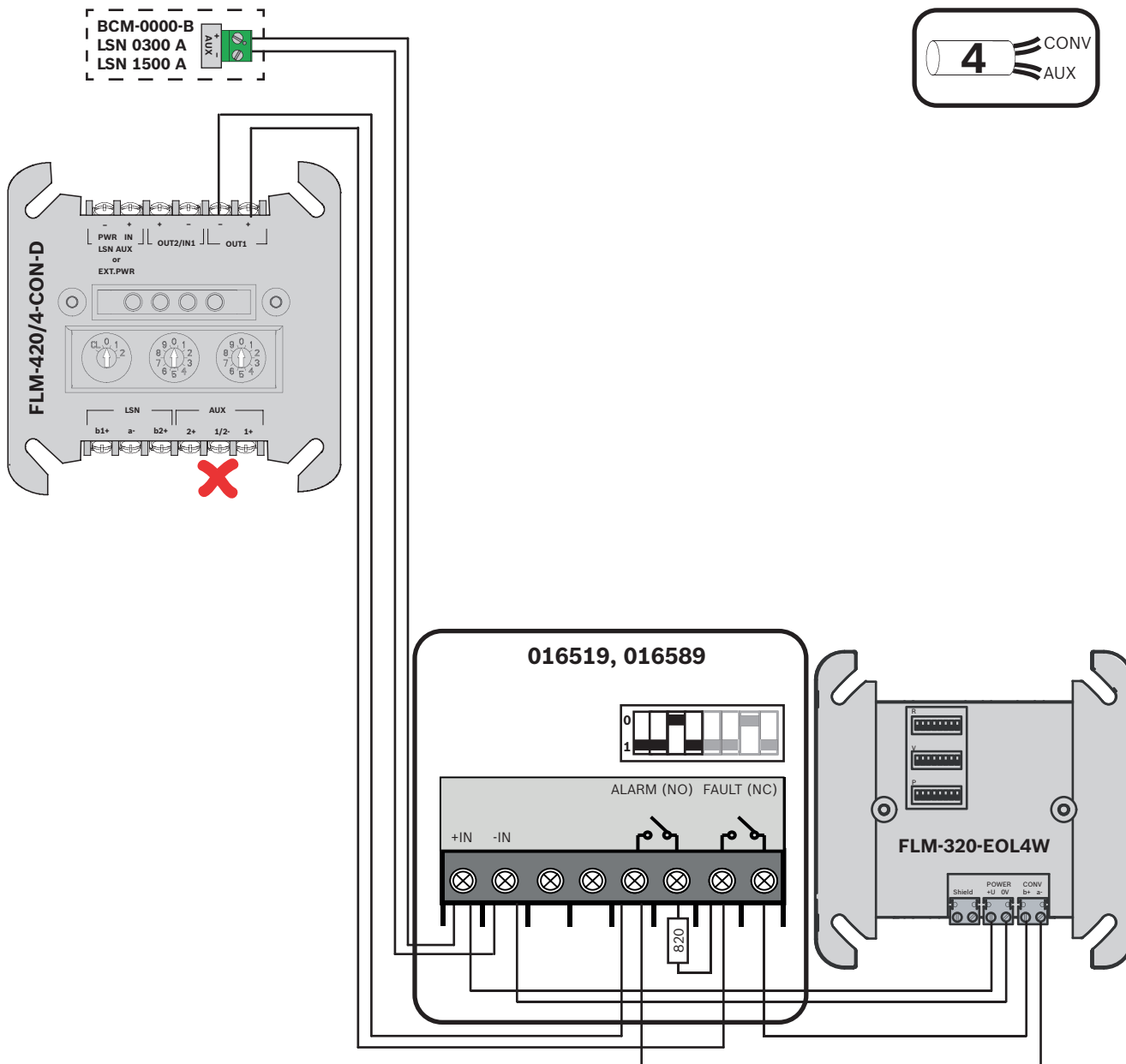


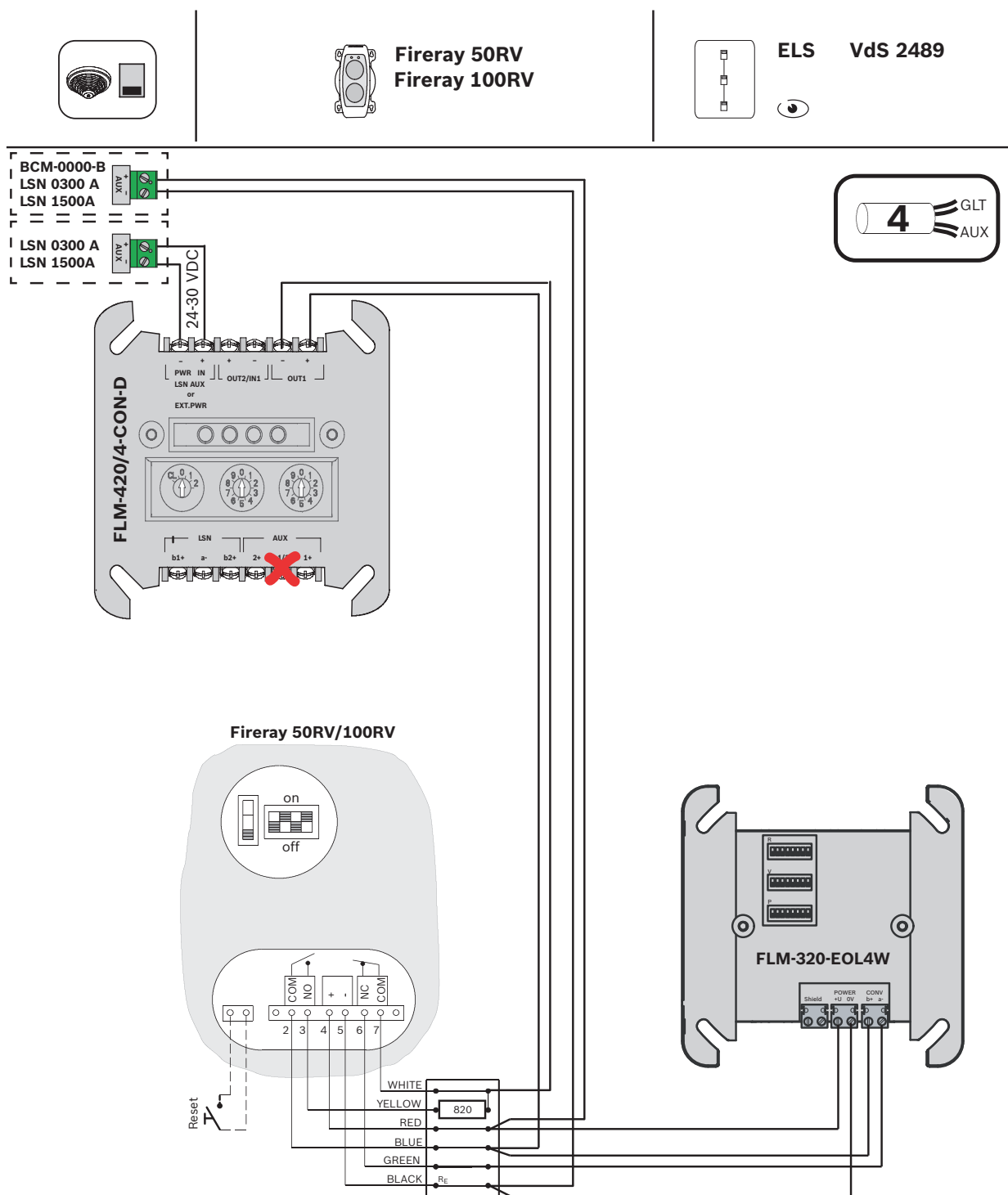


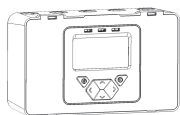
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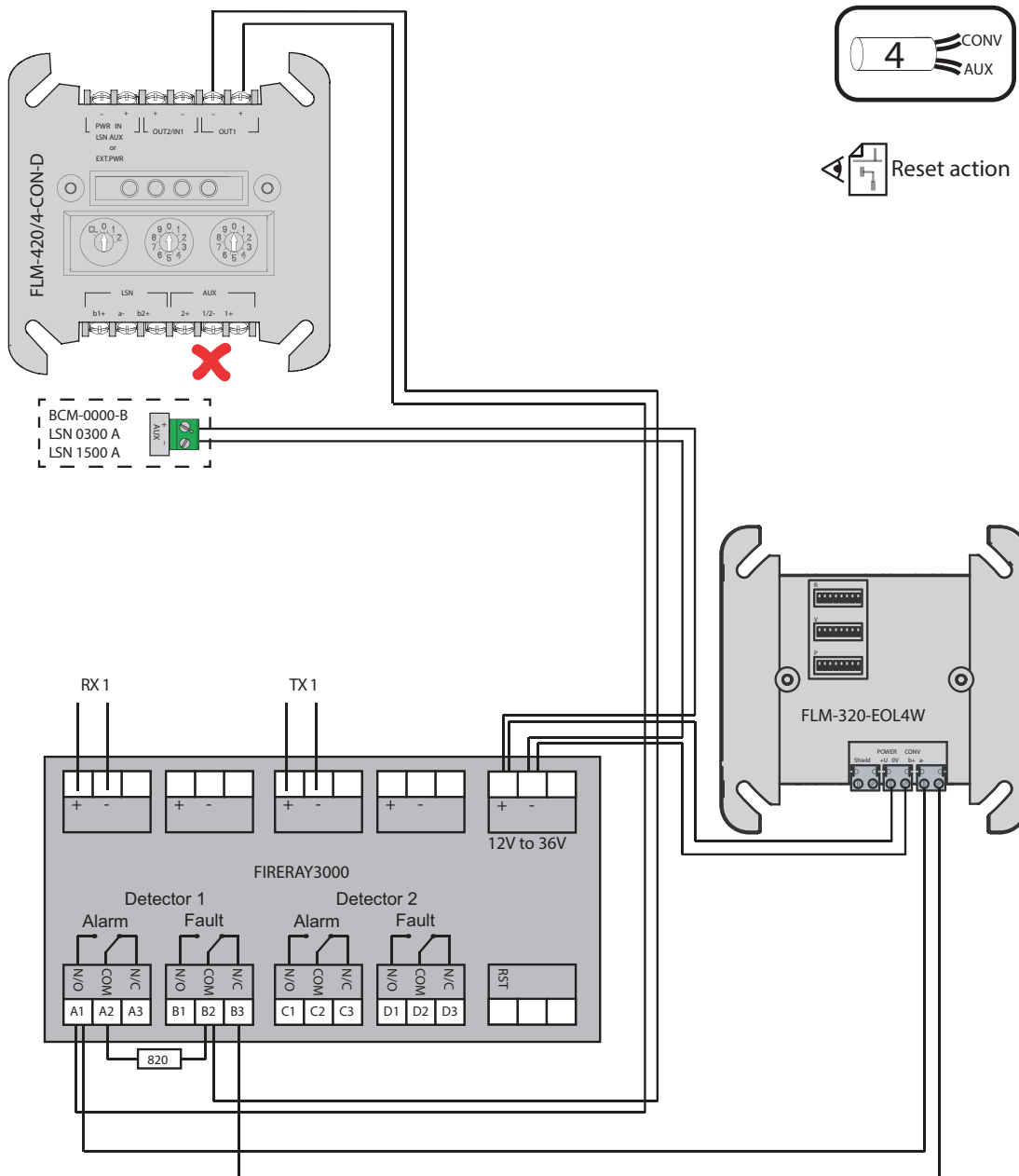
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1 x



ELS

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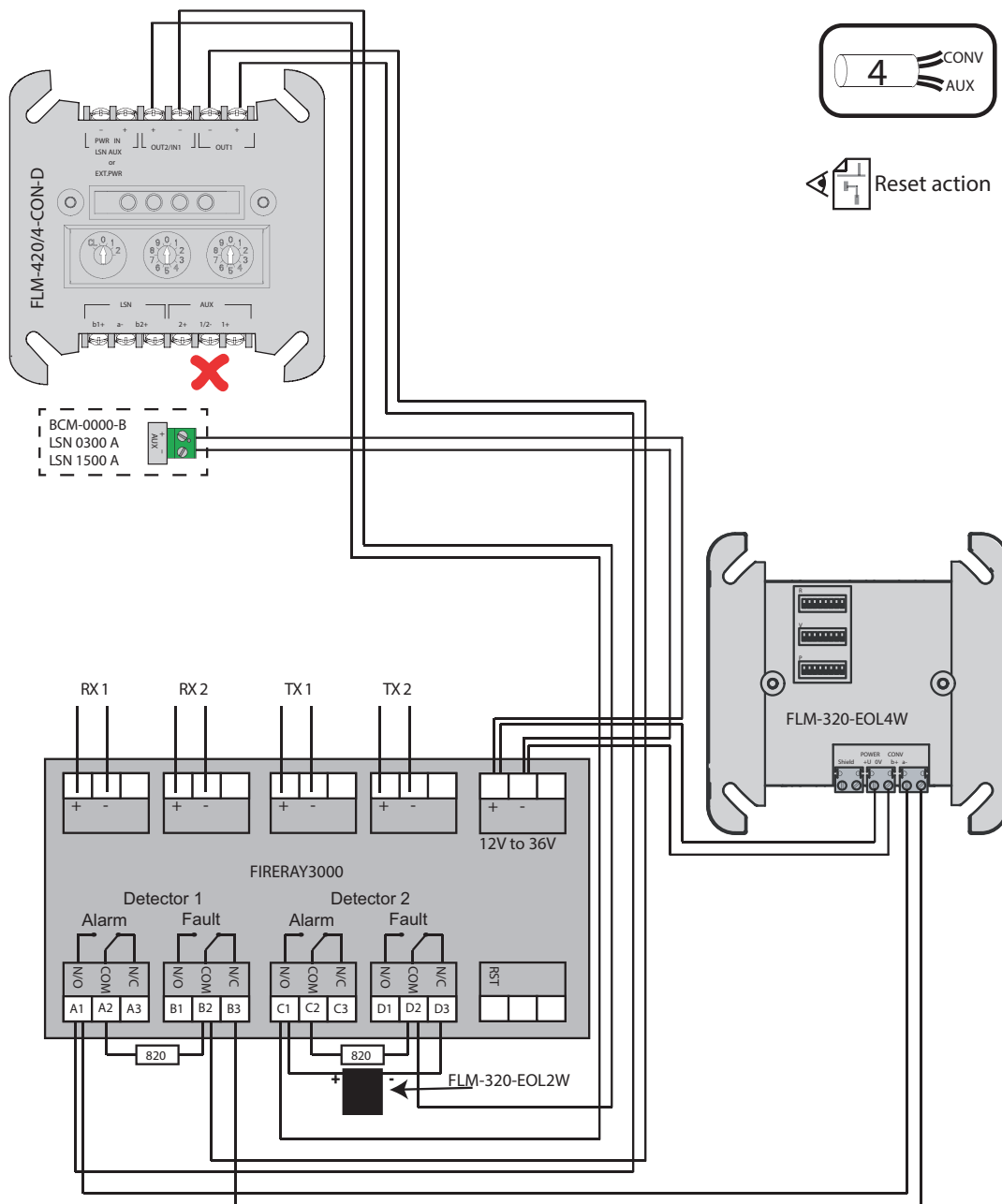
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2 x 1+2



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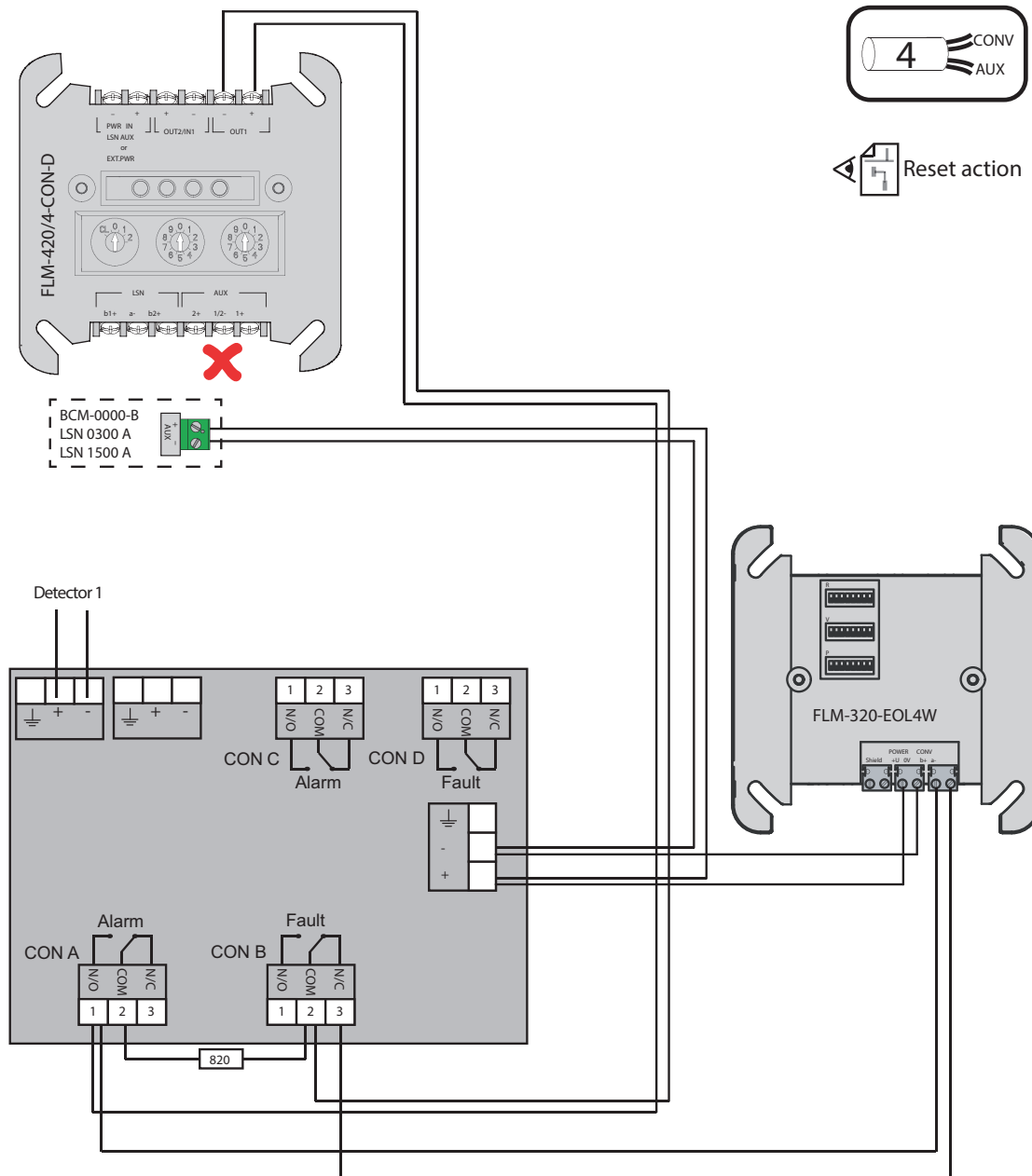
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1 x



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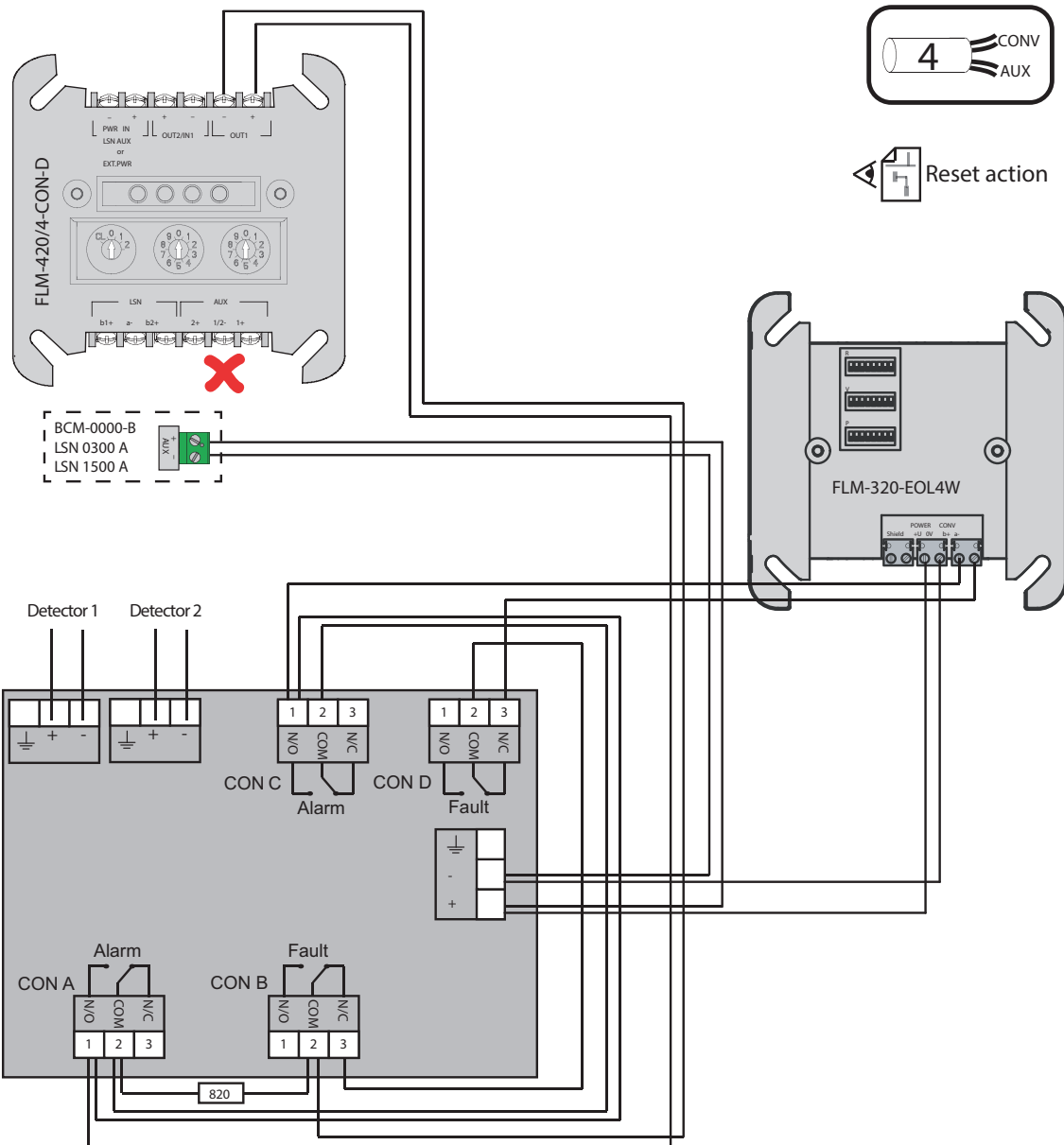
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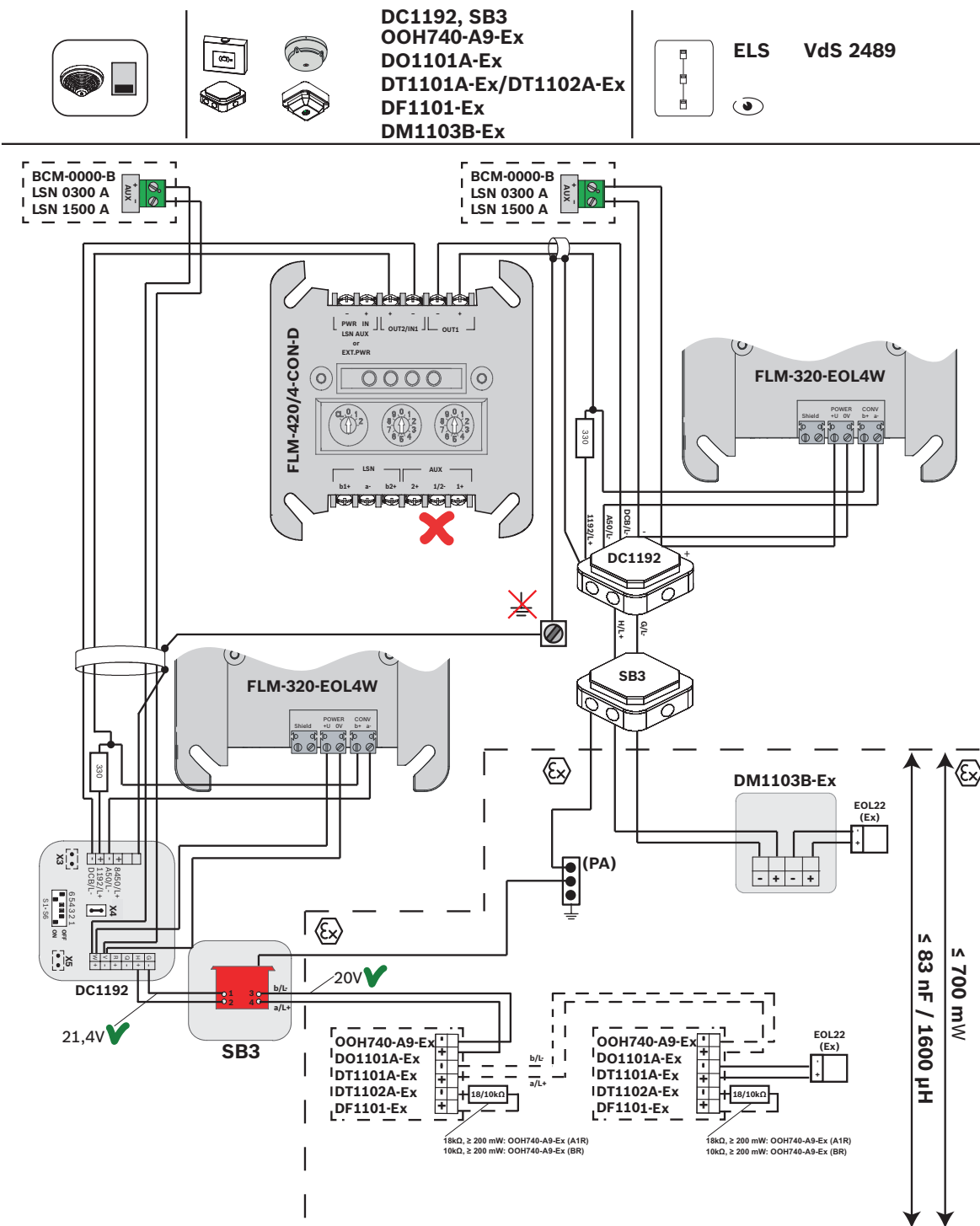
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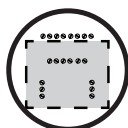


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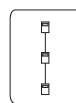
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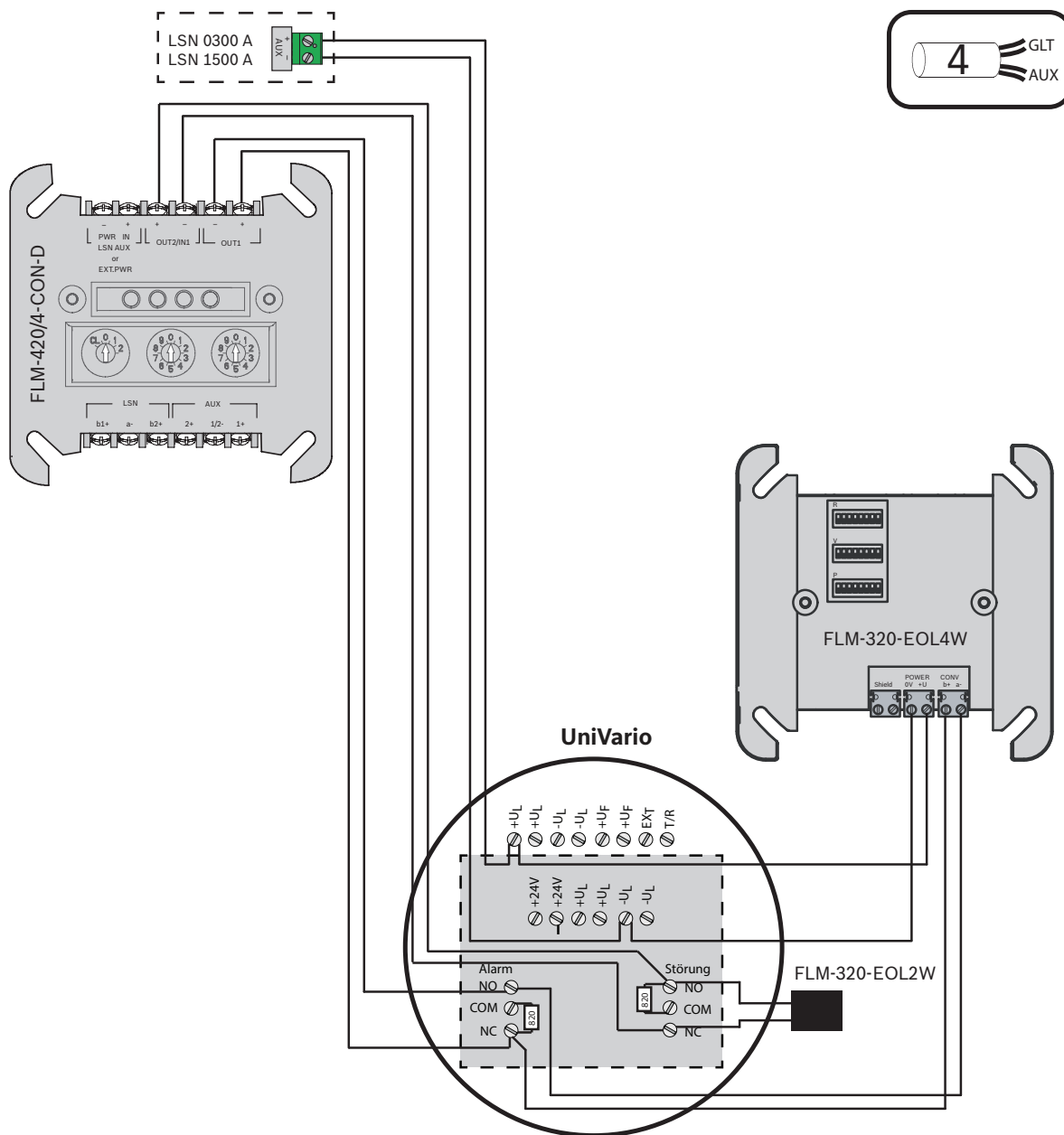




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