



BOSCH

Modulare Brandmelderzentrale

FPA-5000



de

Anschaltehandbuch

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1 History

1.1 12.0 -> 12.1

Changes

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

Deleted

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

Outphased

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

New

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

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

1.2

12.1 -> 12.2

Changes

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

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

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

Deleted

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

Outphased

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

New

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

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

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

Changed

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

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

Outphased

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

1.4

12.3 -> 12.4

New

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

Changed

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

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

Outphased

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

1.5

12.4 -> 12.5

New

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

Changed

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

User Notes updated, order of chapters

Deleted

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

Outphased

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

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

1.6

12.5 -> 12.6

Changed

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

Outphased

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

1.7

12.6 -> 12.7

Changed

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

Deleted

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

New

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

1.8

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

12.7 -> 12.8**New**

AT5000 -> ENO 0000 B

Changed

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

Naming:

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

ELS descriptions in 2.4.2 (DE, EN)

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

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

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

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

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

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

FLM-420-O1I1 -> LSN 0300

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

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

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

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

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

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

Reset action

5 x FAT4000 (shield)

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

Deleted

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

Section Networking (see Networking guide)

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

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

37 x 2-wire cabling -> CZM 0004 A

2 Hinweise

2.1 Inhalt

Dieses Anschaltehandbuch zeigt, wie Peripheriegeräte an die Brandmelderzentrale angeschlossen werden.

Peripheriegeräte, die sich nicht mehr im Lieferprogramm befinden, sind in "Part 2 - Discontinued Products" des Anschaltehandbuchs aufgenommen.

**Hinweis!**

Die in diesem Dokument beschriebenen Anschaltungen gelten auch für die Brandmelderzentrale FPA-1200, sofern die einzelnen Komponenten von Bosch Sicherheitssysteme GmbH zugelassene Erweiterungen der Brandmelderzentrale FPA-1200 darstellen.

**Hinweis!**

Die LSN 0300 A-Anschaltungen in diesem Dokument gelten auch für das LSN 1500 A-Modul.

2.2 Produktinformation

- Wie Sie die einzelnen Komponenten der Brandmelderzentrale installieren, entnehmen Sie bitte dem jeweils beigelegten Installationshandbuch.

2.3 Wichtige Hinweise

- Nur das von Bosch Sicherheitssysteme empfohlene Montagematerial verwenden.
- Umbau- und Lötarbeiten nur mit Erdungsarmband durchführen!
- Montage und Installation nur durch Fachpersonal!
- Anschlussbedingungen der regionalen Behörden/Institutionen beachten!

**Gefahr!**

Lebensgefahr bei Berührung von stromführenden Teilen.
Vor Installationsarbeiten die Stromzufuhr unterbrechen!

**Hinweis!**

Wenn ein Schirmbeidraht für das LSN-Kabel verbunden werden muss, verfahren Sie gemäß der LSN-Spezifikationen.

- Verbinden Sie den LSN-Schirmbeidraht zentralenseitig mit der vorgesehenen funktionalen Erde. Die Schirmung muss auf beiden Seiten (Anfang und Ende) des Rings mit der Zentrale verbunden werden.
- Den Schirmbeidraht an allen LSN-Peripheriegeräten durchschleifen, dabei die vorgesehenen Klemmen verwenden.
- Es ist keine weitere Verbindung des LSN-Schirmbeidrahts zulässig, weder zu anderen Erdanschlüssen, noch zu einem anderem elektrischen Potenzial.

2.4 Benutzerhinweise

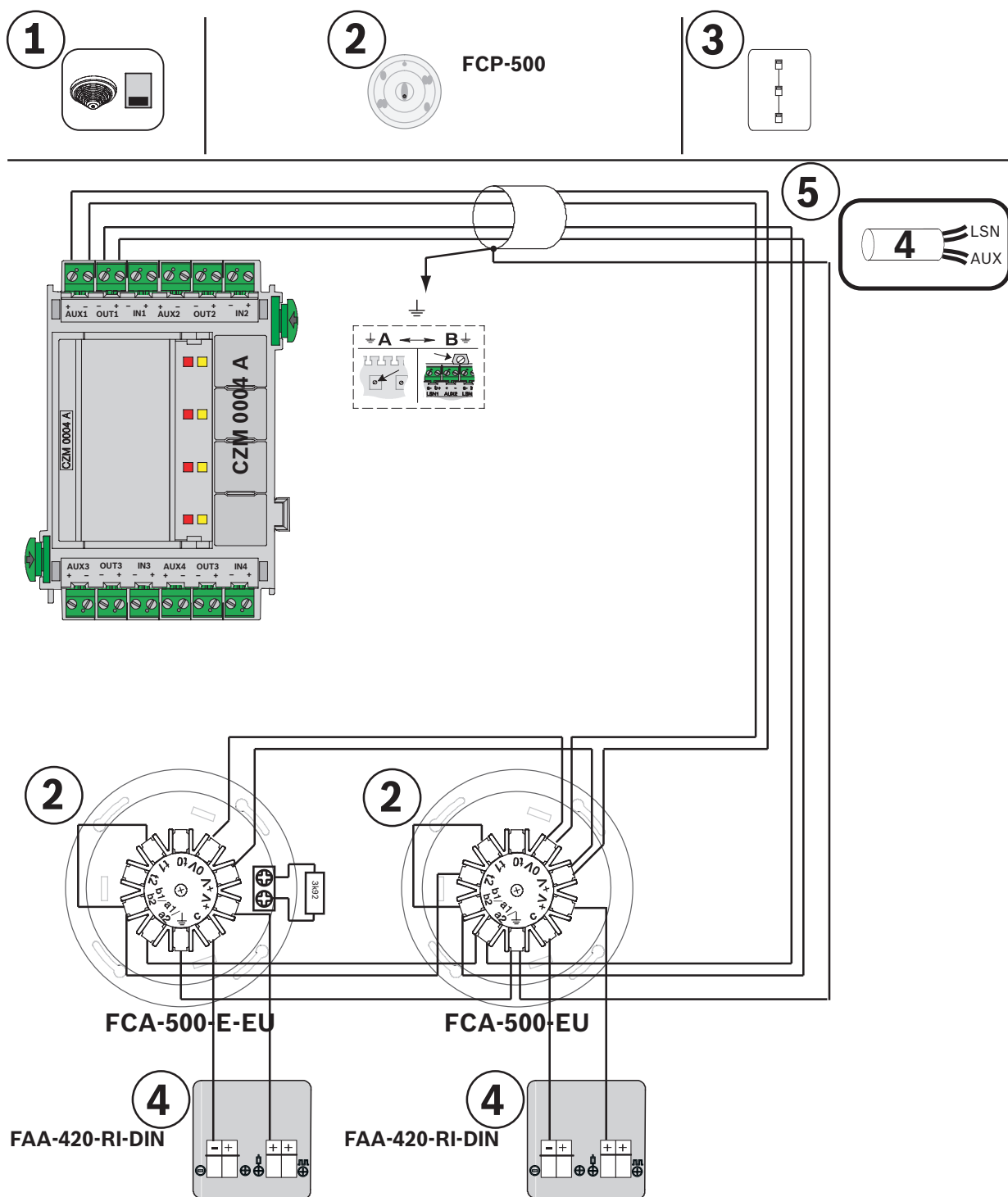
Das Anschaltehandbuch ist wie folgt strukturiert:

- Das Kapitel *Anschaltung*, Seite 19 ist nach dem Gerät sortiert, an das ein Peripheriegerät angeschlossen wird. Eine Anschaltung zeigt die direkte Verbindung eines Geräts mit einem anderen (keine kaskadierenden Verbindungen). Die Abschirmung wird in der Regel nicht in den Anschaltungen gezeigt. Die Beispielanschaltung unten demonstriert die Abschirmung.
- Eine Sammlung aller Anschaltungen, die mit zusätzlichen EOL-Modulen für die Überwachung von schleichender Unterbrechung versehen sind, finden Sie in Abschnitt EOL.

Verwenden Sie zum Suchen einer benötigten Anschaltung auch:

- das Inhaltsverzeichnis am Anfang des Kapitels *Anschaltung*, Seite 19 und am Anfang der Abschnitte *Funktionsmodule*, Seite 49, *Koppler*, Seite 137 und EOL.
- den Index (sprachneutral),
- und die Volltextsuche.

Siehe die folgende Beispielanschaltung:



1	Kapitelsymbole (<i>Kapitelsymbole, Seite 15</i>)
2	Anschaltbares Peripheriegerät
3	Anschaltesymbole (<i>Anschaltesymbole, Seite 15</i>)
4	Optionale Komponenten
5	Stromversorgung und Anschaltung (<i>Stromversorgung und Verkabelung, Seite 16</i>)

Siehe

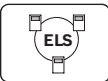
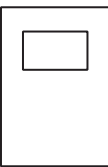
– EOL, Seite 181

2.4.1 Kapitelsymbole

	Automatische Melder		Bedien- und Anzeigetableaus		Drucker
	Stromversorgung		Funktionsmodule		Feuerwehreinrichtungen
	Koppler		Löschanlagen		Manuelle Melder
	Signalgeber		Türsteuerungen		Übertragungseinrichtungen
	Vernetzung				

2.4.2 Anschaltensymbole

 	Überwachte/nicht überwachte Verbindung von konventionellem Peripheriegerät oder überwachter/nicht überwachter konventioneller Signalgeberlinie. (Endwiderstand in CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A Verbindung oder potenzialfreie Verbindungen mit Koppler.)	 	Bei dieser Verbindung von konventionellen Peripheriegeräten kann eine Rückmeldeleitung angeschlossen werden. / Das durchgestrichene Symbol gibt an, dass keine Rückmeldeleitung erforderlich oder empfohlen ist. (FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A Verbindungen) Eine Eingangsleitung kann auch als Rückmeldeleitung verwendet werden (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1 ...).		Redundanz
	Ringverdrahtung		Ringverdrahtung mit redundantem Element		Stichverdrahtung
	Redundante Stichverdrahtung		Stichverdrahtung mit redundantem Element		Redundante Stichverdrahtung mit redundantem Element

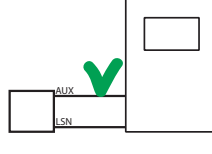
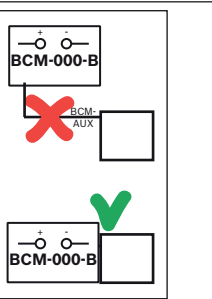
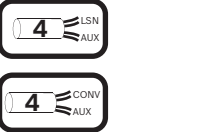
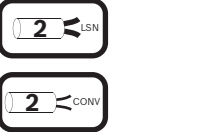
ELS	Diese Verdrahtung entspricht VdS 2543. ELS steht für Erweiterte Leitungsüberwachung, d. h. Überwachung auf schleichenden Kurzschluss und schleichende Unterbrechung. Diese Anschaltung bietet ELS. Eine Sammlung aller Anschaltungen, die mit zusätzlichen EOL-Modulen für die Überwachung von schleichender Unterbrechung versehen sind, finden Sie in Kapitel EOL. Ein schleichender Kurzschluss wird von den folgenden Modulen erkannt: LSN 0300 A, LSN 1500 A und BCM-0000-B bei Verwendung von FPP-5000-TI13.		Diese Ringverdrahtung entspricht VdS 2543. Sie bietet ELS. Weitere EOL-Module sind nicht erforderlich.		Synchronisierung
	Explosionsgefährdeter Bereich		Zentrale		Stand-Alone-Zentrale
	Stand-Alone-Zentrale mit Redundanz		Nicht zulässig		Für Meldersockel: Die Verdrahtung ist nur für den Meldersockel gültig, in dem der Melder installiert ist.
- - - -	Optionale Verkabelung		Verpflichtende Verkabelung	EN 54-2, DIBT etc.	Wenn diese Norm gefordert ist, verwenden Sie diese Anschaltung.

2.4.3

Stromversorgung und Verkabelung



Zusätzliche Stromversorgung

	Stromversorgung über die Zentrale Die Stromversorgung darf sich entfernt vom Element befinden.
	Stromversorgung über die Zentrale/externe Stromversorgung Das Element wird von einem BCM-000-B mit Strom versorgt. Das Element muss bündig mit dem Gehäuse des Produkts montiert werden, das das BCM-000-B enthält.
	Die Verdrahtung erfolgt 4-adrig. Andernfalls erfolgt sie 2-adrig.
	Die Anschaltung ist eine 2-Draht-Verbindung.
	Siehe Anschaltung in diesem Handbuch.
	Siehe die technische Dokumentation des angeschlossenen Peripheriegeräts.

2.5

Widerstandswerte

Die folgende Tabelle gibt Ihnen einen Überblick über die Farbcodierung von Widerständen. Die mitgelieferten Metallschichtwiderstände haben fünf farbige Streifen, anhand derer Sie den Widerstandswert ablesen können.

Farbe	1. Streifen	2. Streifen	3. Streifen	4. Streifen (Multiplikator)	5. Streifen (Grenzabweichung)
Silber				10^{-2}	$\pm 10\%$
Gold				10^{-1}	$\pm 5\%$
Schwarz		0	0	10^0	
Braun	1	1	1	10^1	$\pm 1\%$
Rot	2	2	2	10^2	$\pm 2\%$
Orange	3	3	3	10^3	$\pm 0.05\%$
Gelb	4	4	4	10^4	$\pm 0.02\%$
Grün	5	5	5	10^5	$\pm 0.5\%$
Blau	6	6	6	10^6	$\pm 0.25\%$

Farbe	1. Streifen	2. Streifen	3. Streifen	4. Streifen (Multiplikator)	5. Streifen (Grenzabweichung)
Violett	7	7	7	10^7	$\pm 0.1\%$
Grau	8	8	8	10^8	$\pm 0.01\%$
Weiß	9	9	9	10^9	

Gemäß DIN EN 60062:2017

Orange – Weiß – Schwarz – Braun – Braun: 3,9 kOhm Widerstand mit 1 % Toleranz,

Rot – Rot – Schwarz – Braun – Braun: 2,2 kOhm Widerstand mit 1 % Toleranz.

3

Anschaltung



FPP-5000 Power supply, Seite 20

DIBT, Seite 22

Funktionsmodule, Seite 49

BCM-0000-B, Seite 50

CZM 0004 A, Seite 52

ENO 0000 A/B, Seite 56

LSN 0300 A, Seite 63

NZM 0002 A, Seite 98

RMH 0002 A, Seite 114

IOS 0020 A, Seite 117

FPE-5000-UGM, Seite 132

Koppler, Seite 137

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

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

FLM-420-RLE-S, Seite 176

FLM-420-RLV1-E, Seite 177

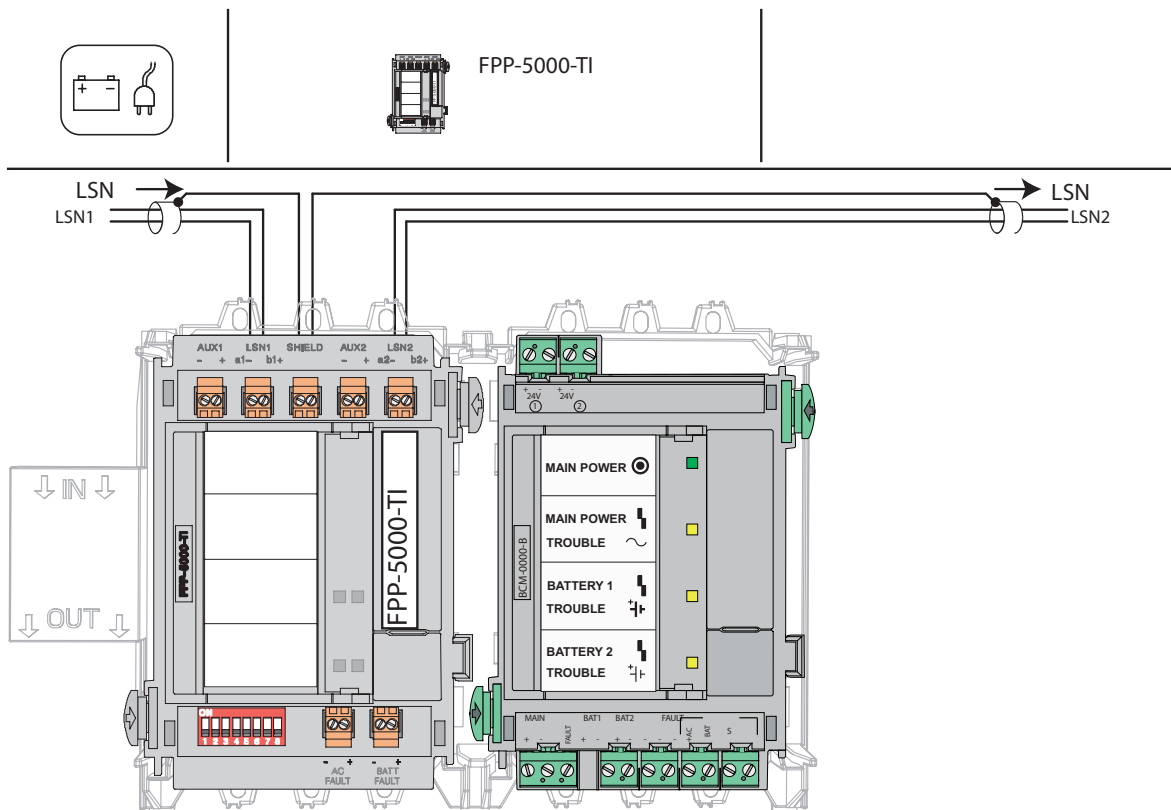
FLM-420-RLV8-S, Seite 178

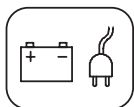
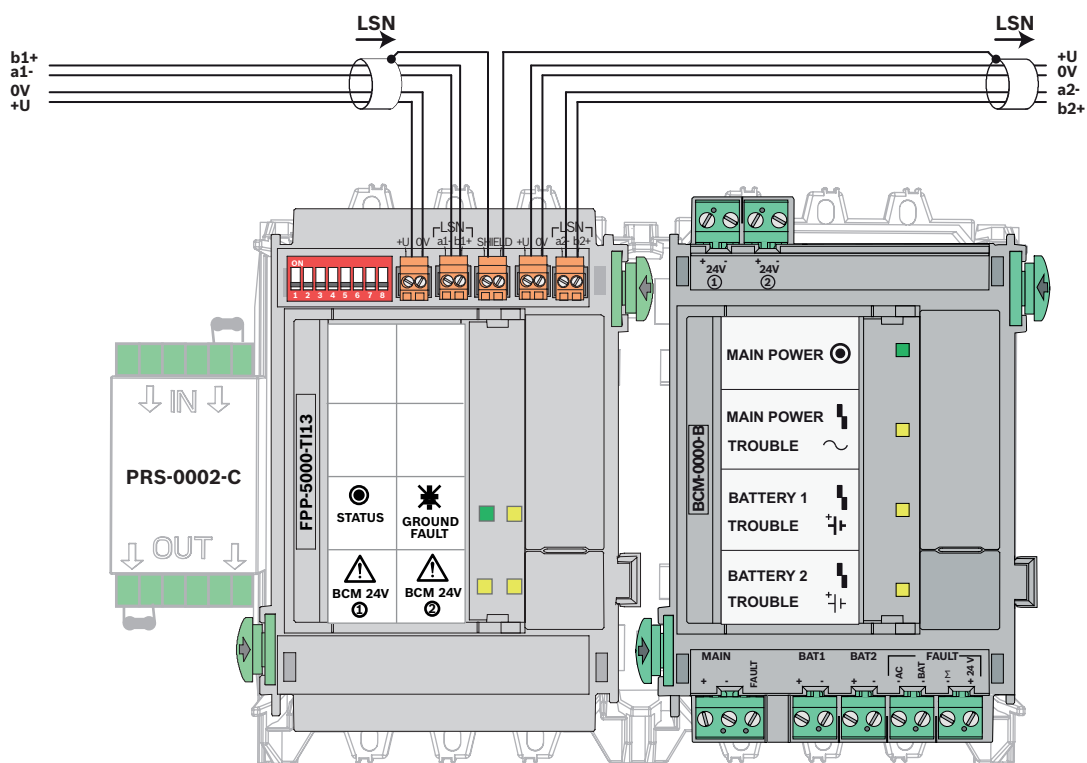
EOL, Seite 181

LSN 0300 A, Seite 182

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

3.1 FPP-5000 Power supply



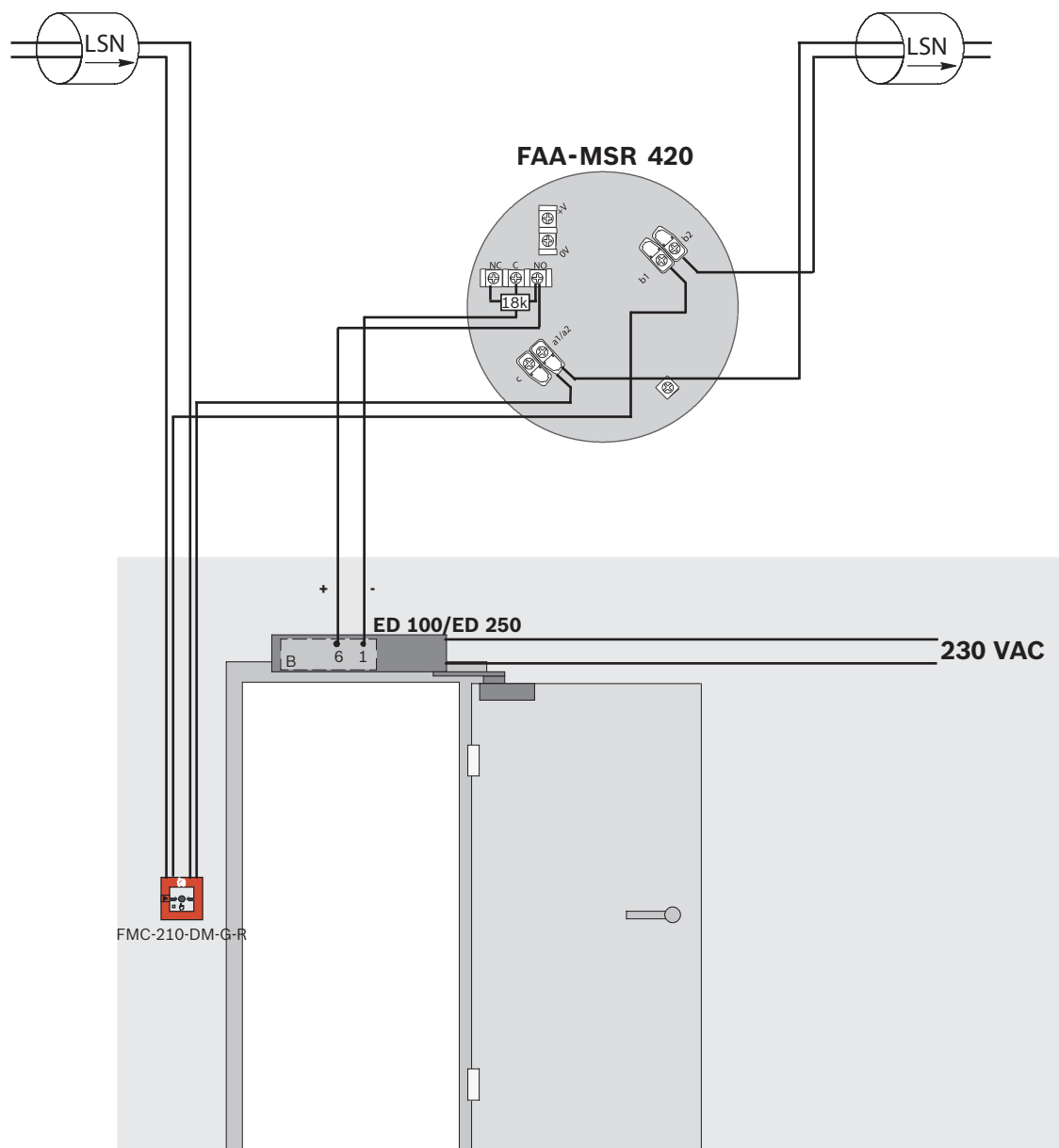

FPP-5000-TI13
ELS VdS 2489


3.2 DIBT



ED 100
ED 250
(+Upgrade Card B)

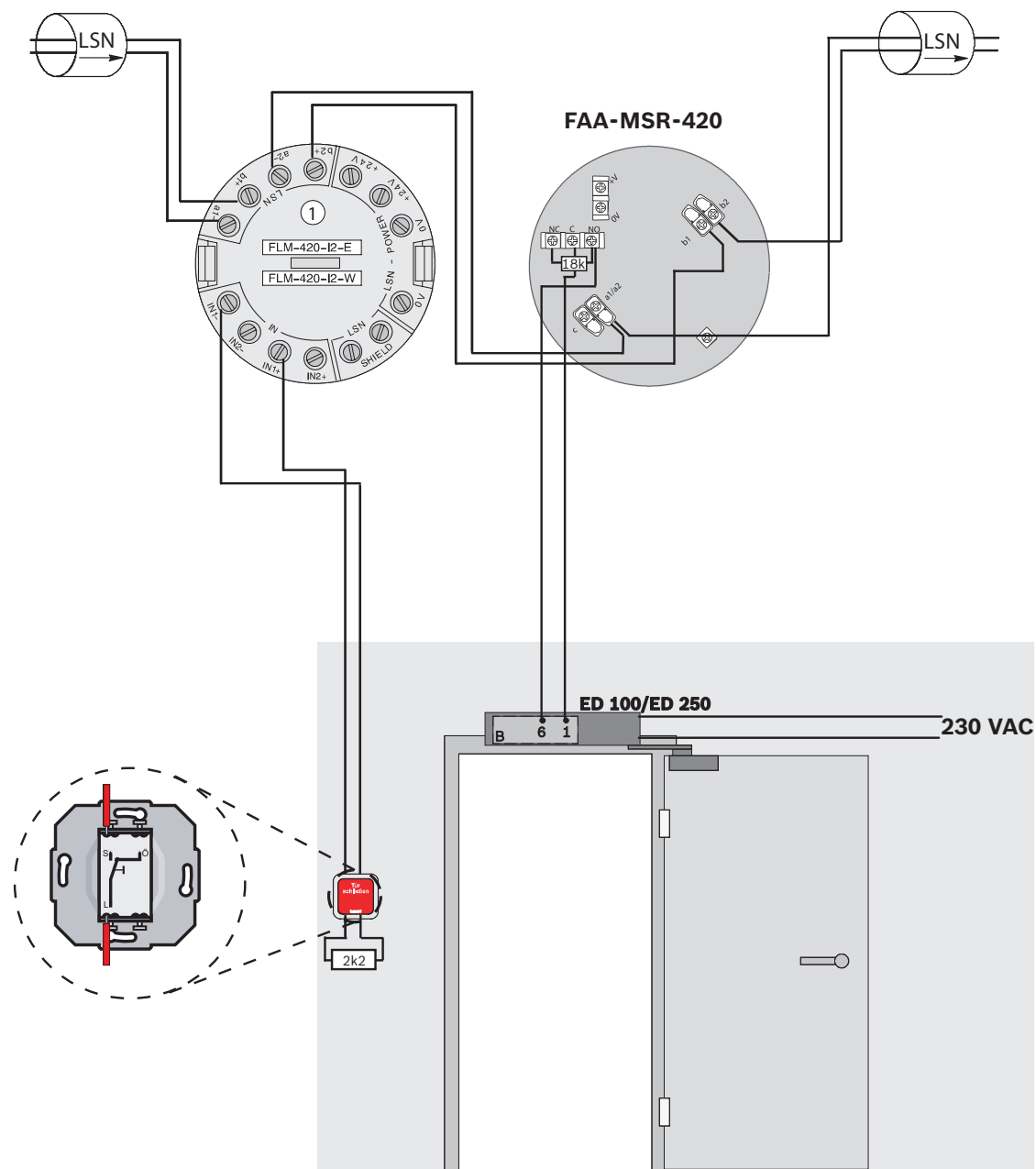
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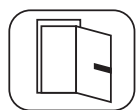
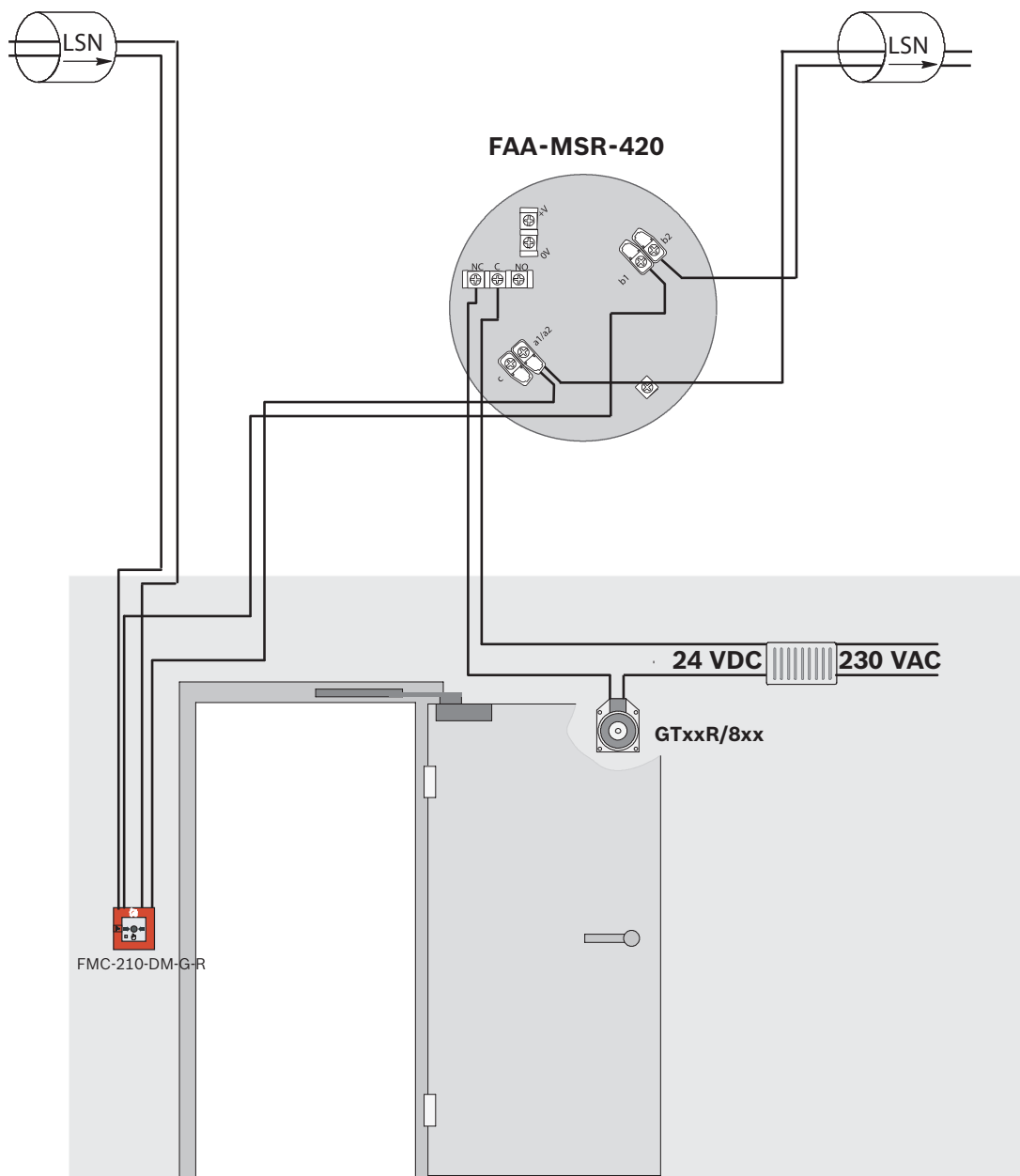




ED 100
ED 250
(+Upgrade Card B)

DIBT



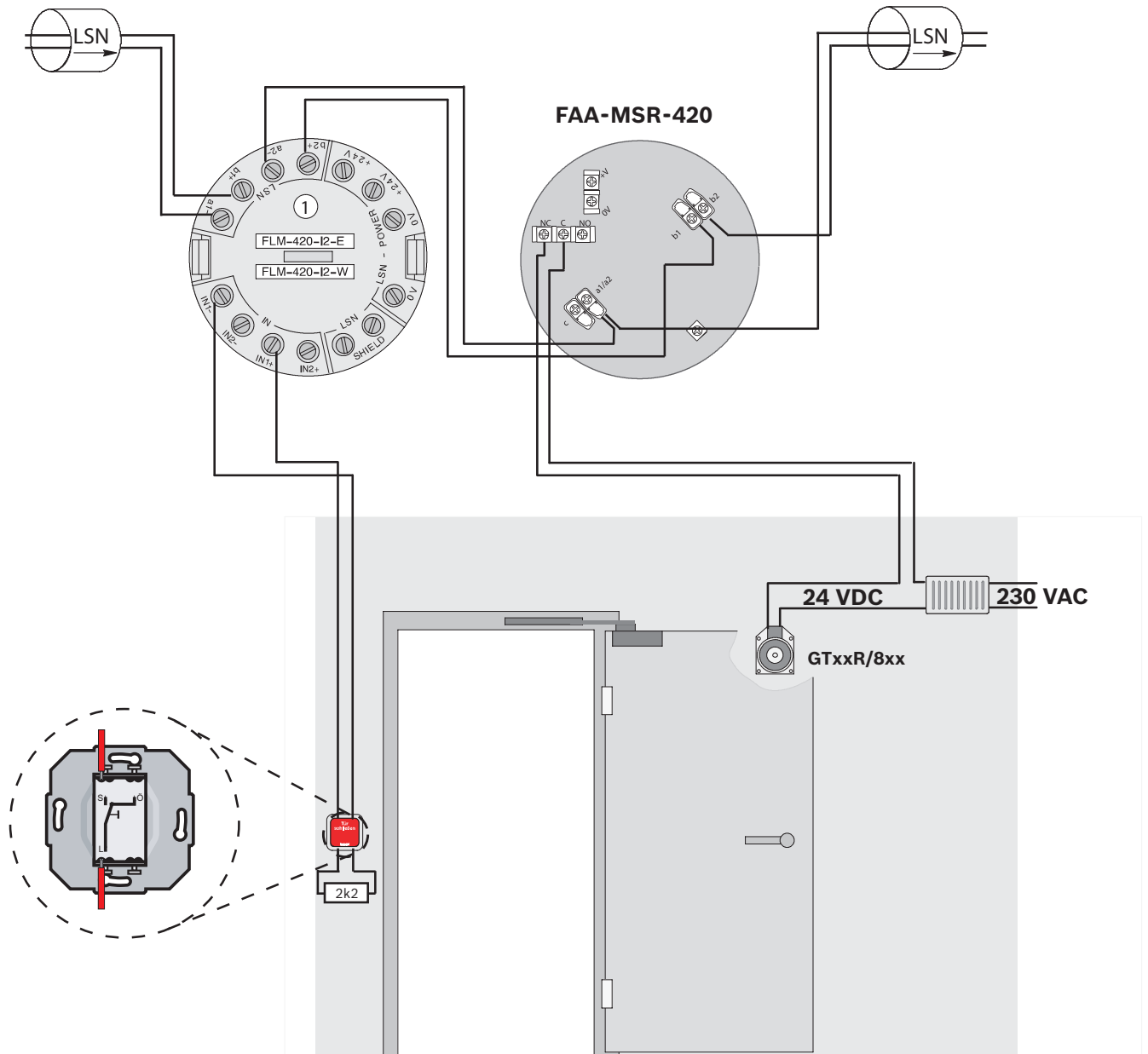
**DIBT**



GT xx R

8 xx

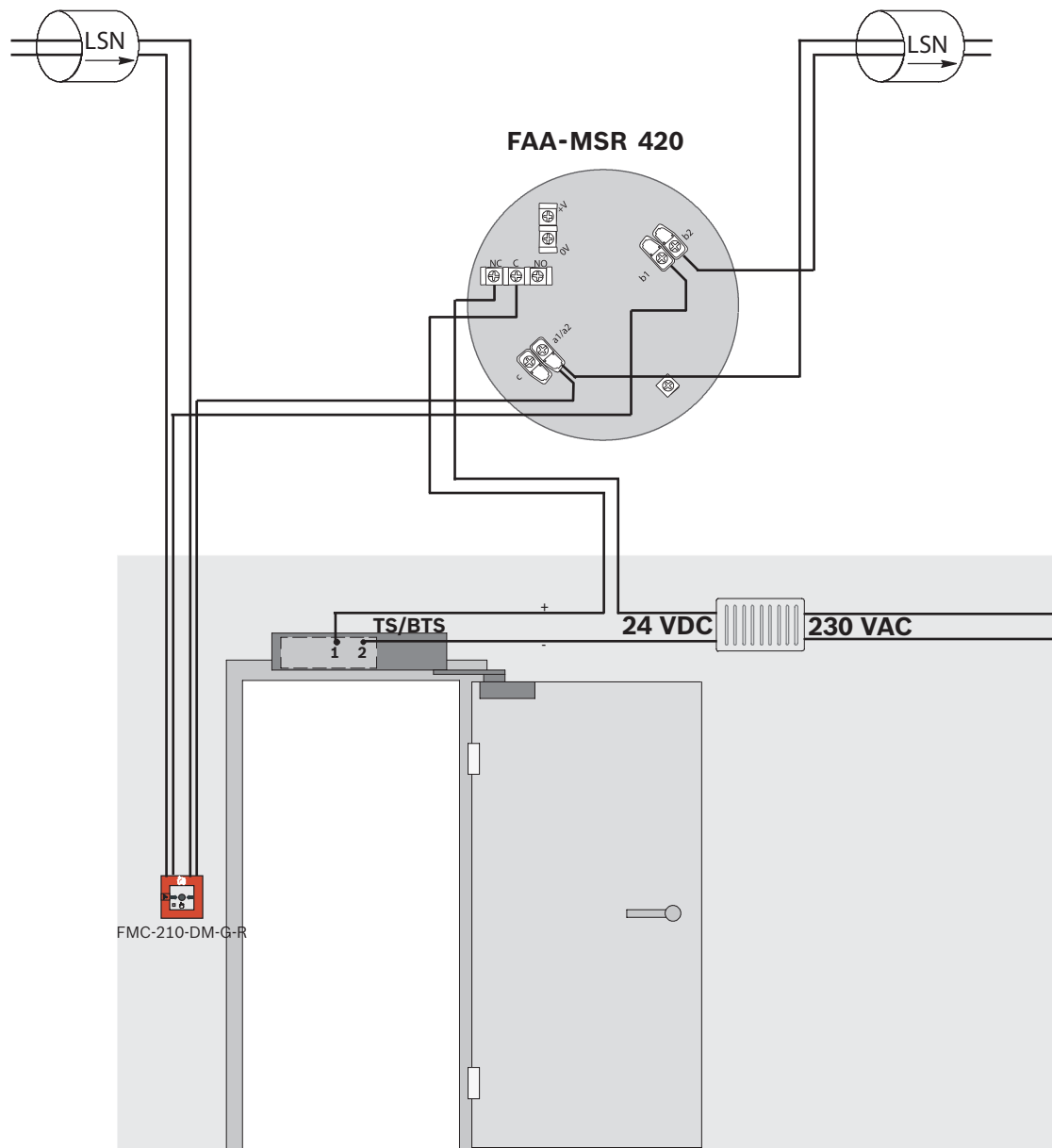
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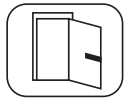




TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

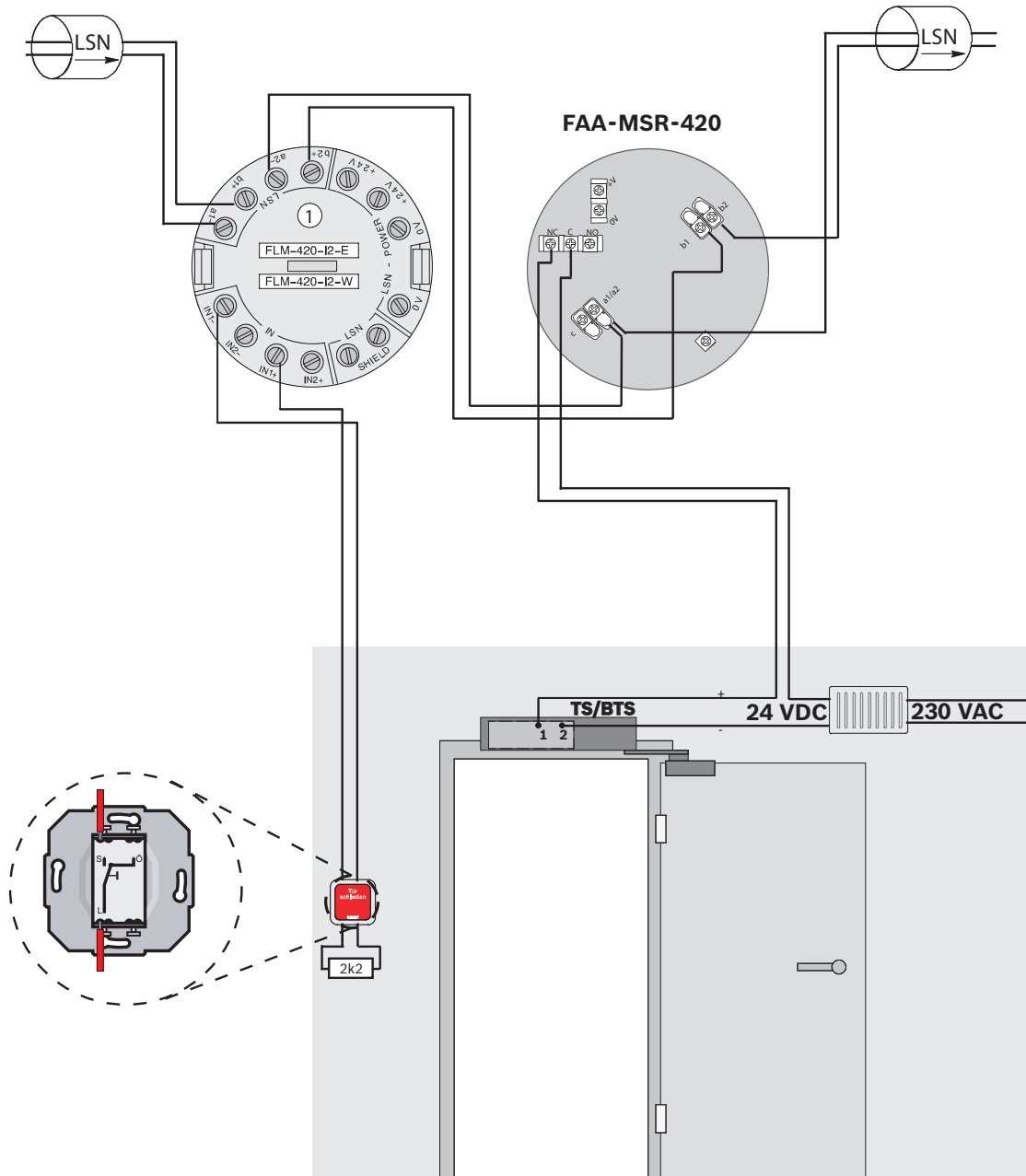
DIBT





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

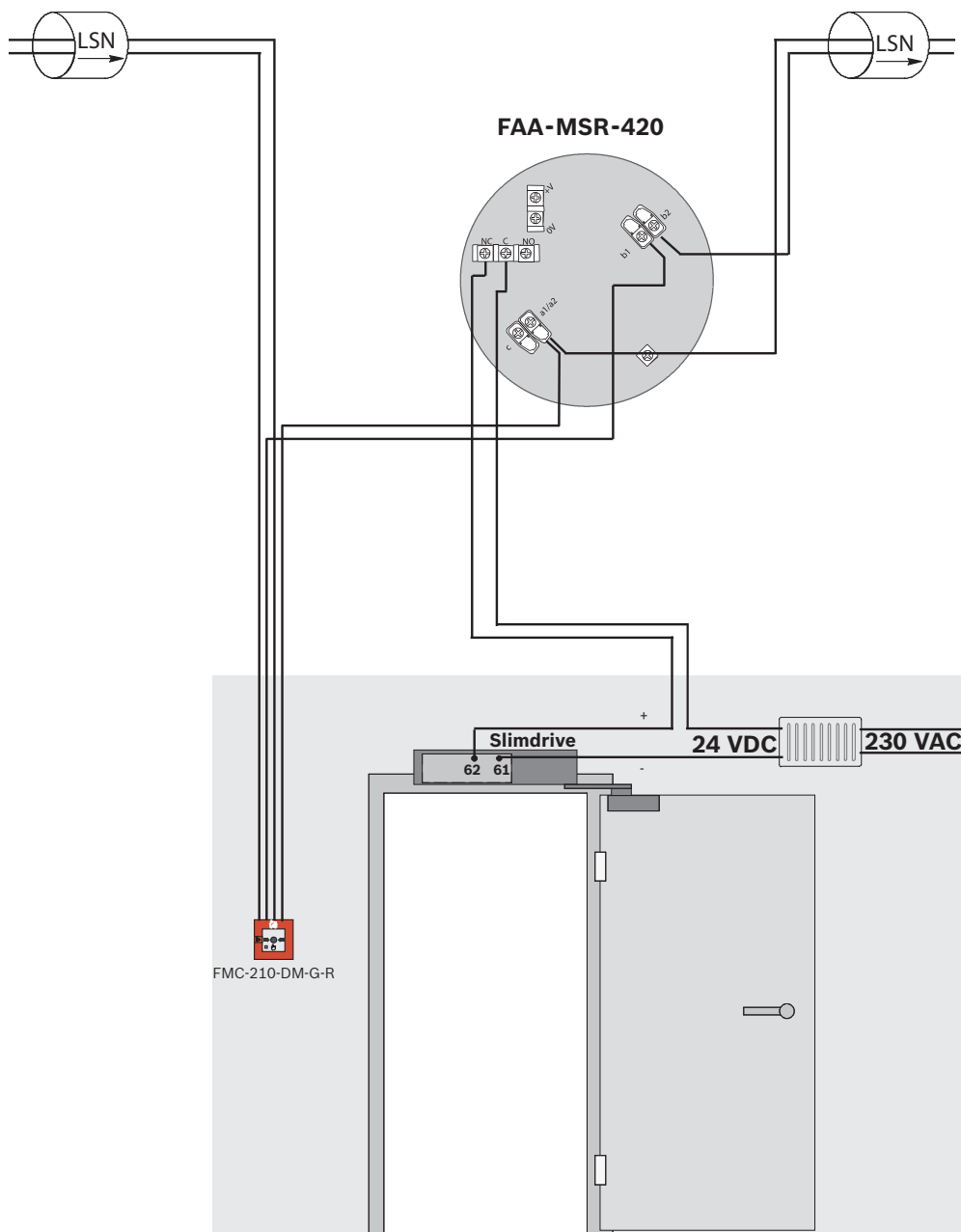
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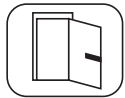




Slimdrive EMD-F/EMD F-IS

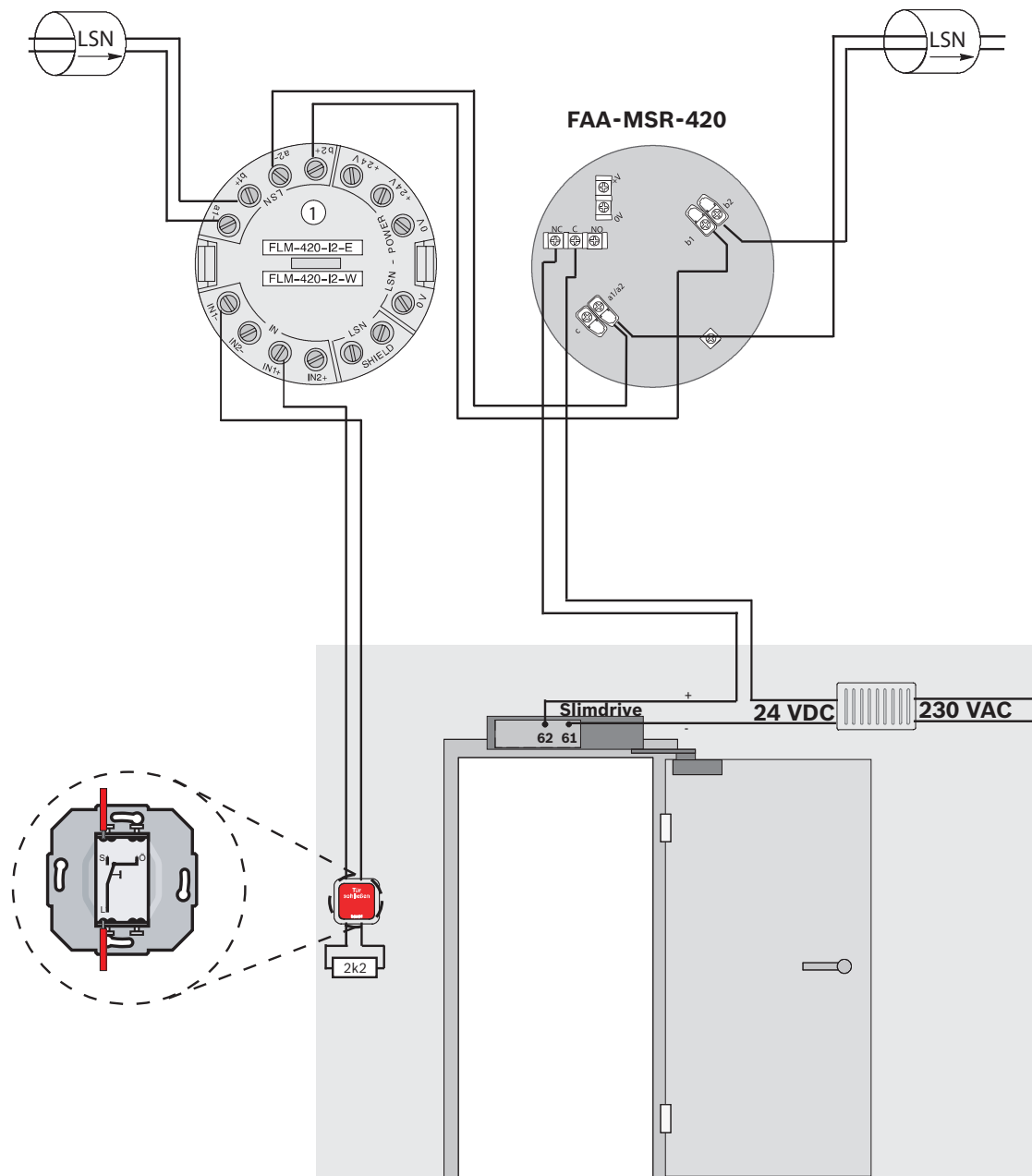
DIBT





Slimdrive EMD-F/EMD F-IS

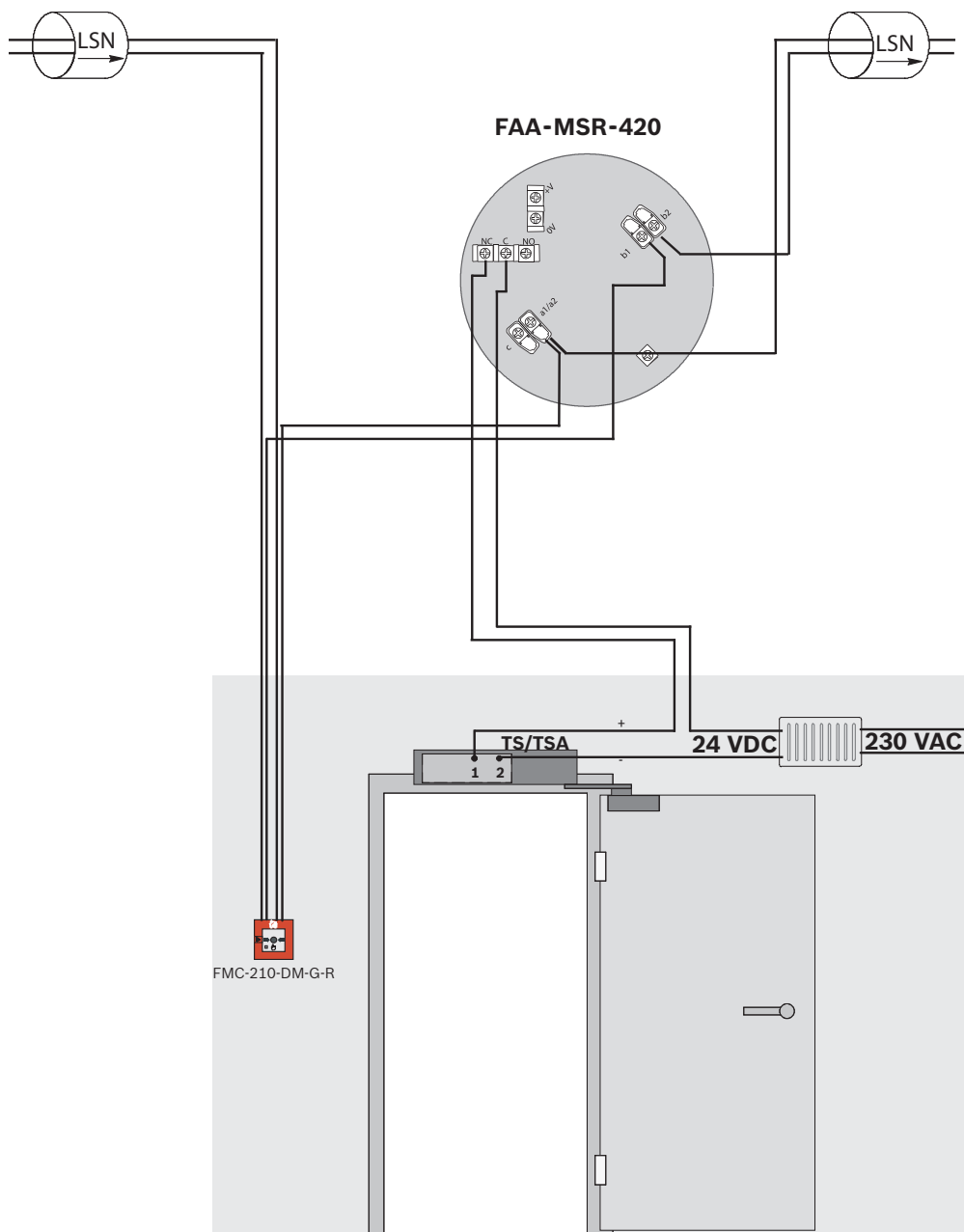
DIBT





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

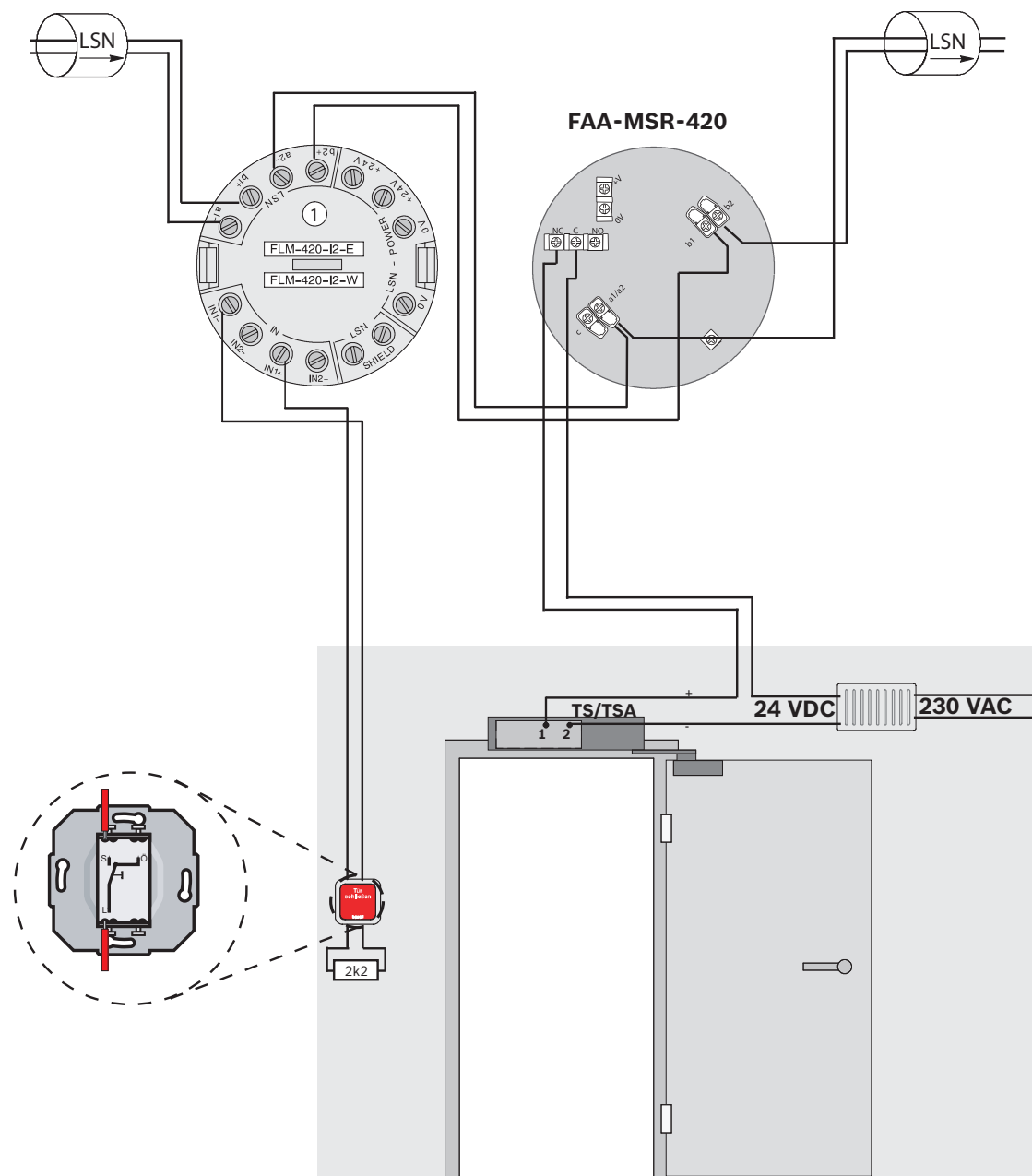
DIBT





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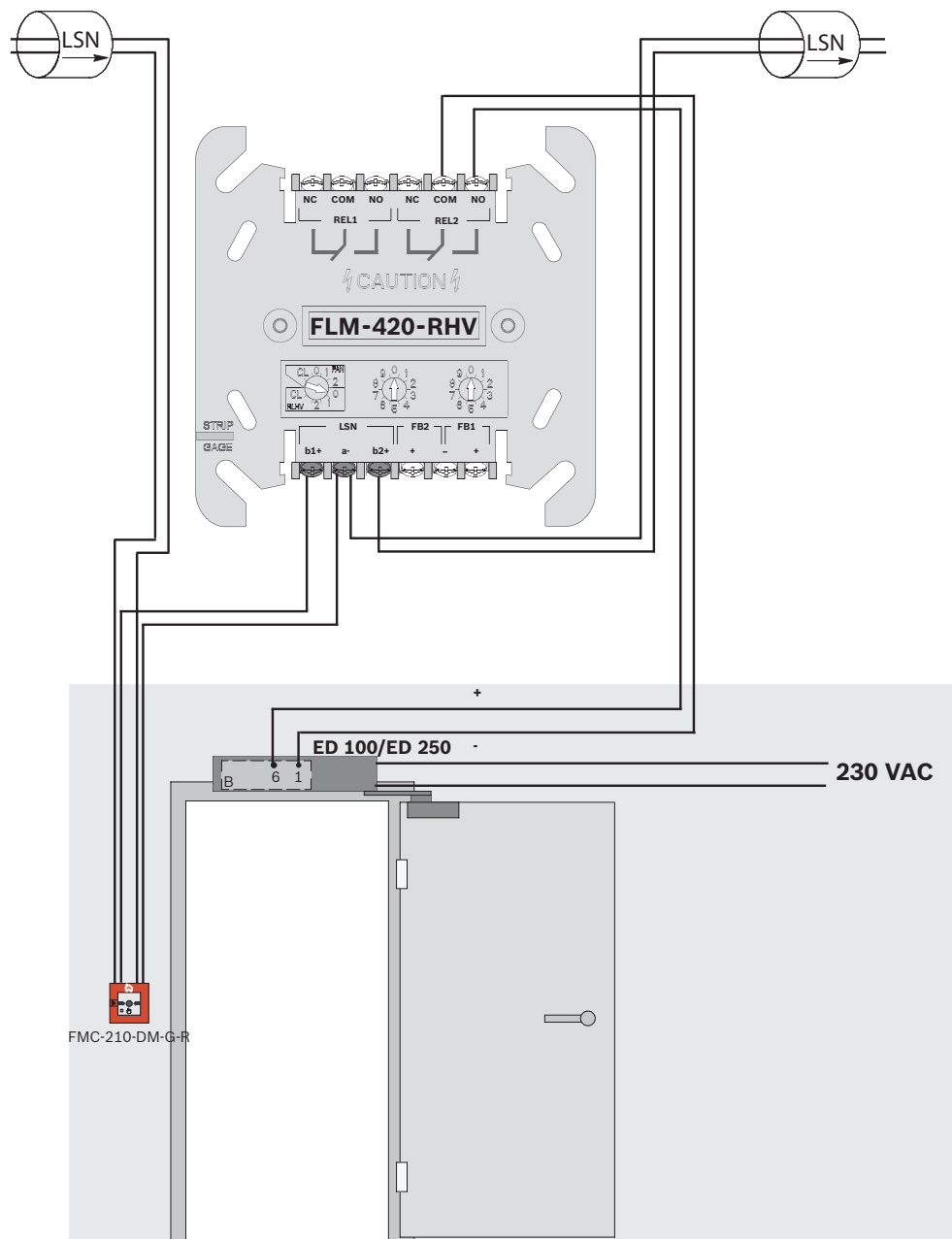
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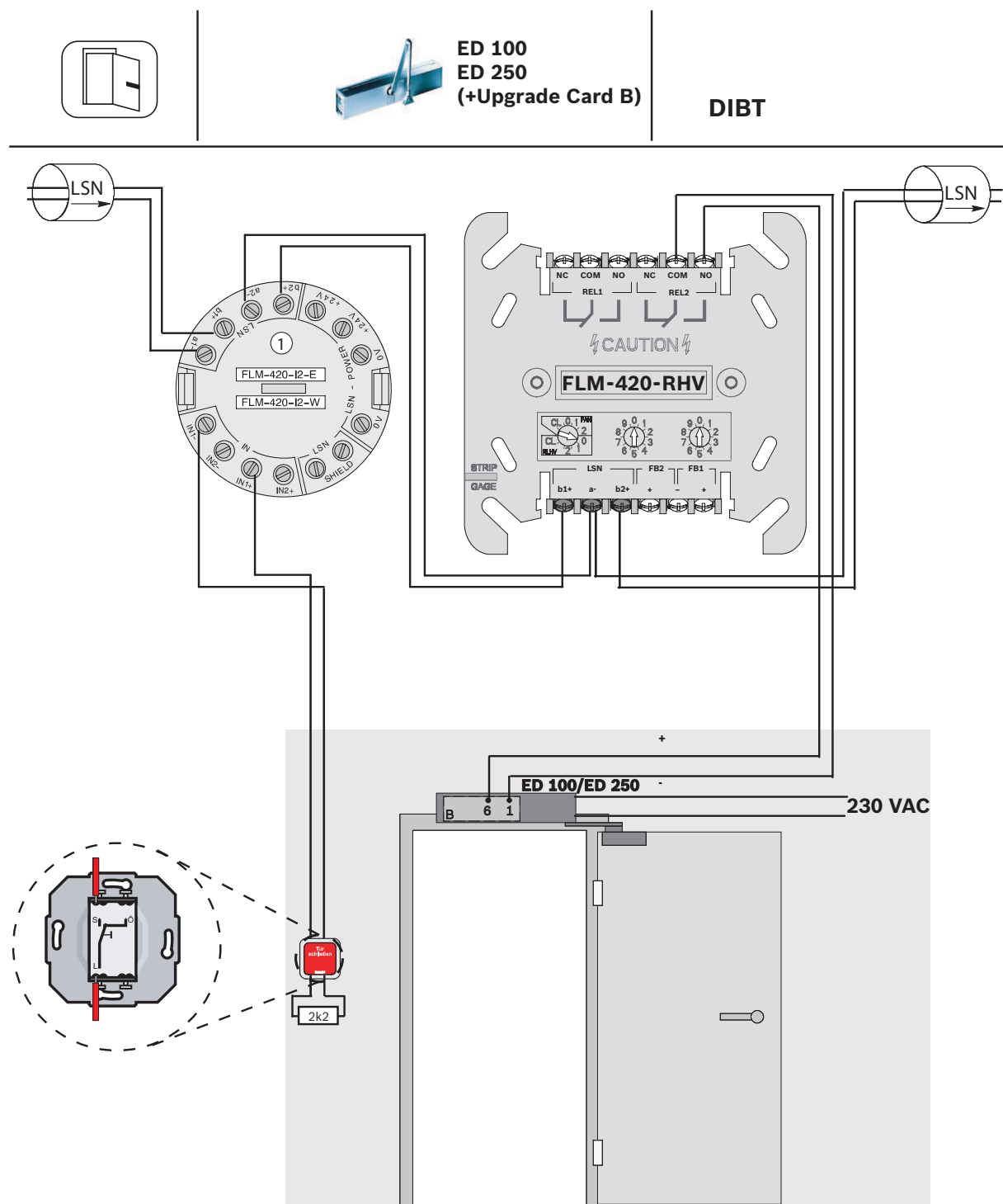




**ED 100
ED 250
(+Upgrade Card B)**

DIBT



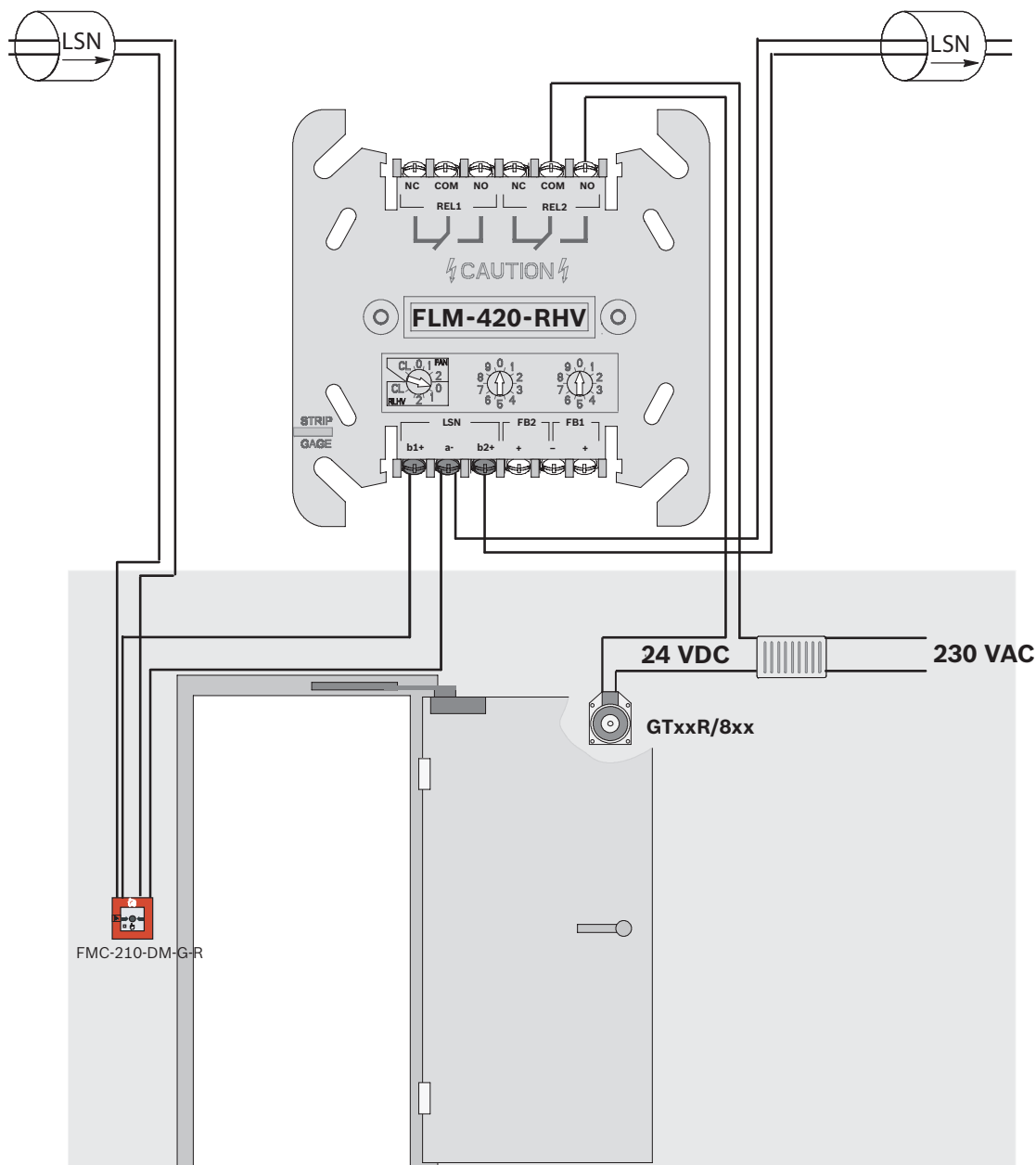




GT xx R

8 xx

DIBT

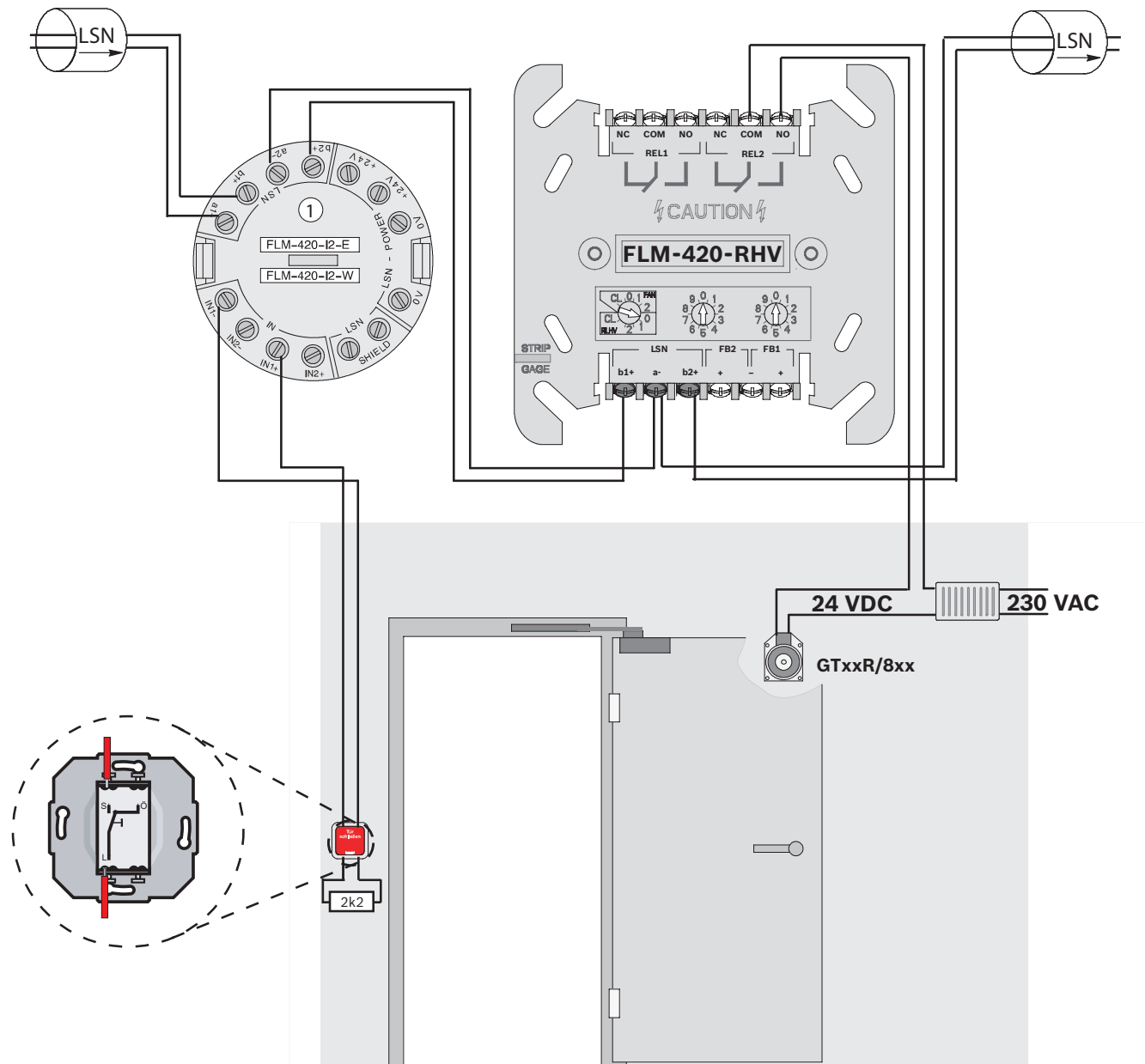




GT xx R

8 xx

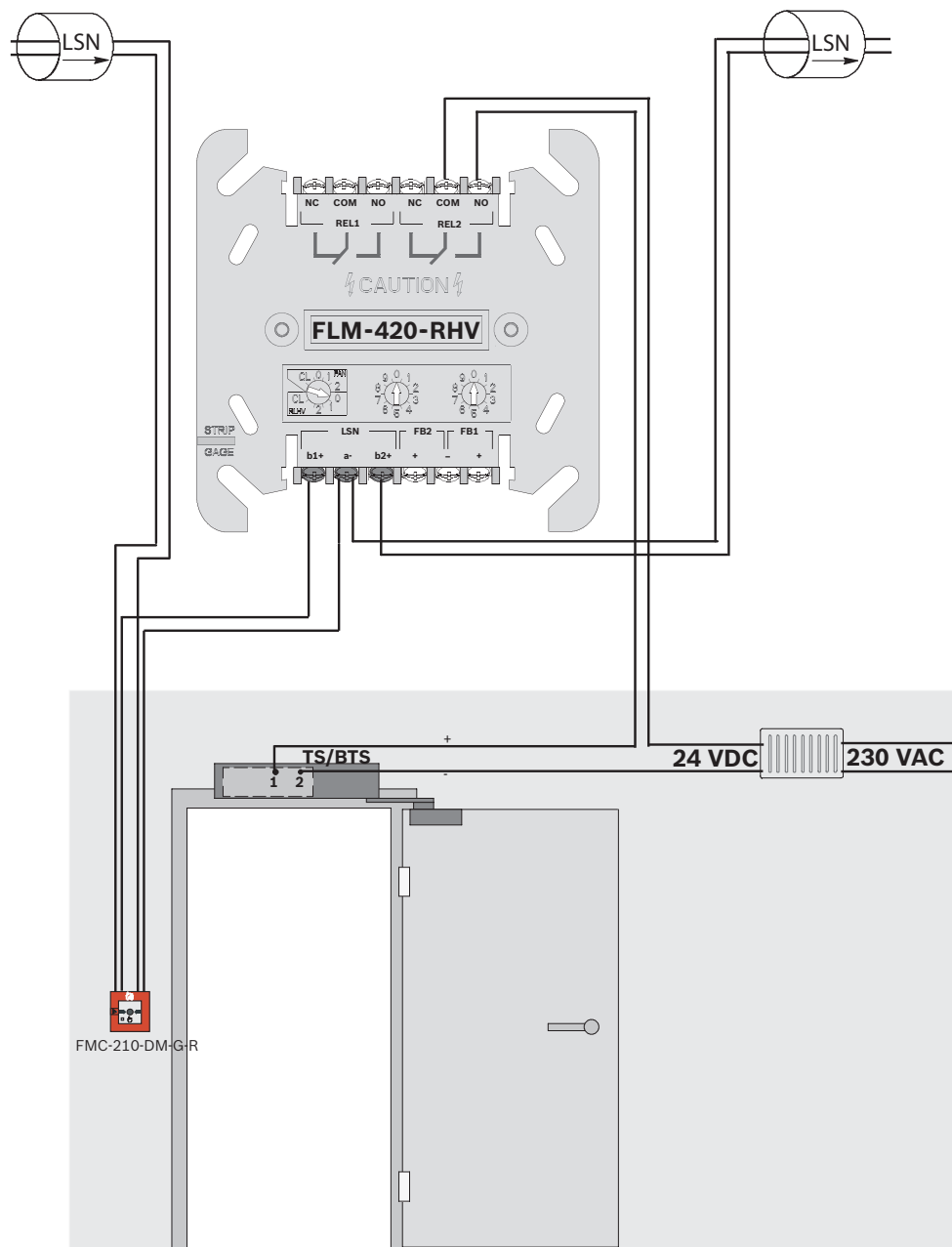
DIBT





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

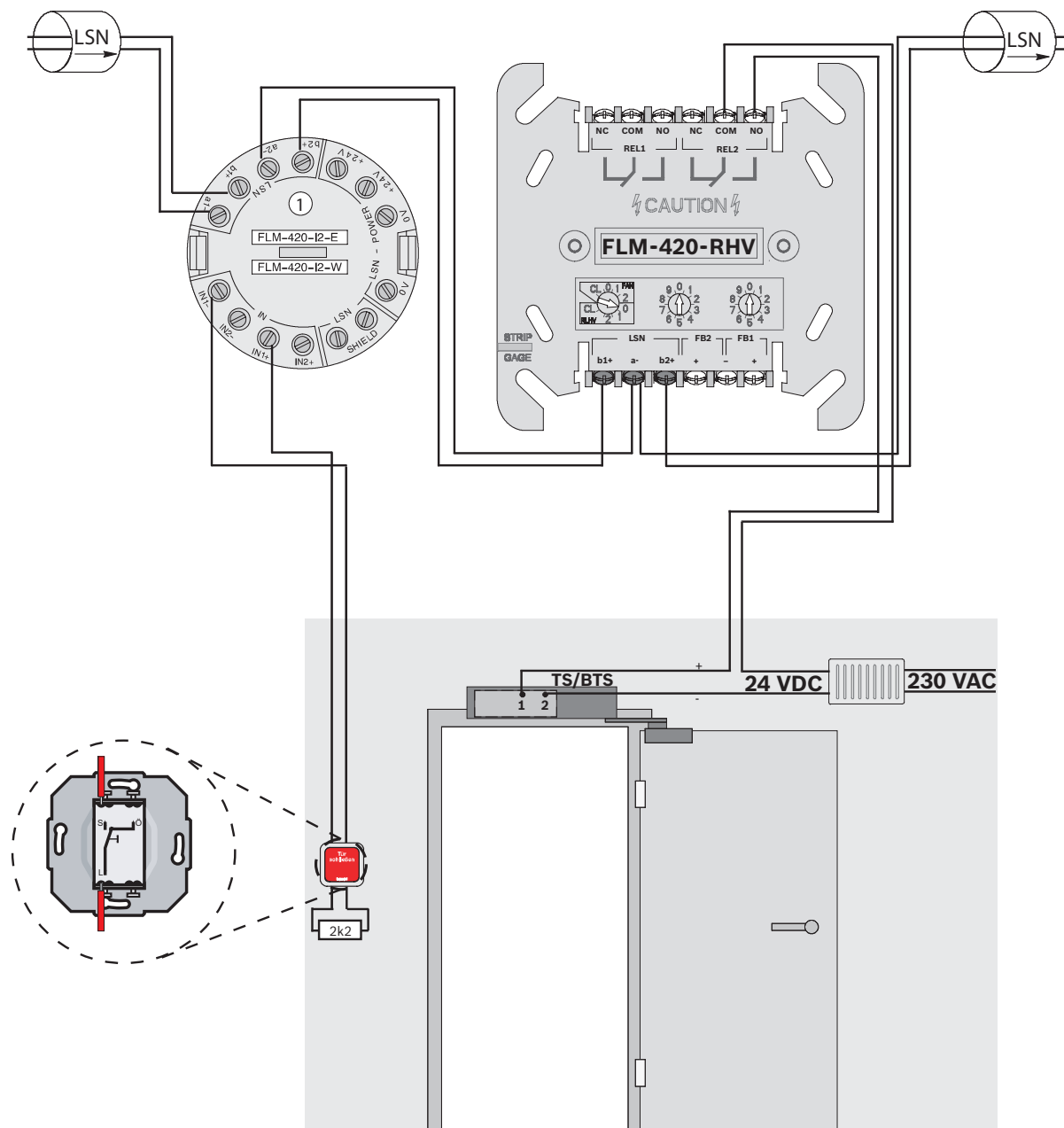
DIBT





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

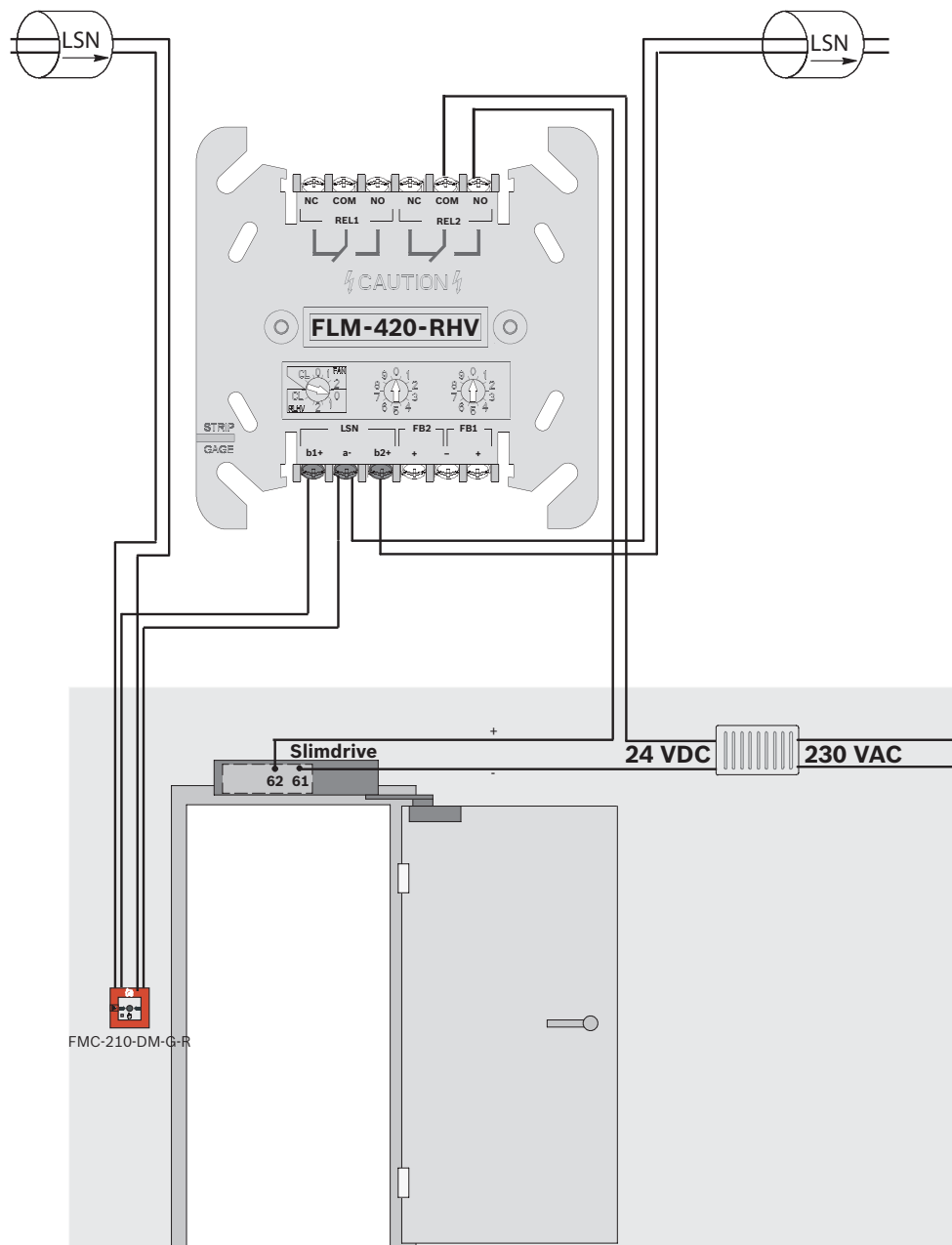
DIBT





Slimdrive EMD-F/EMD F-IS

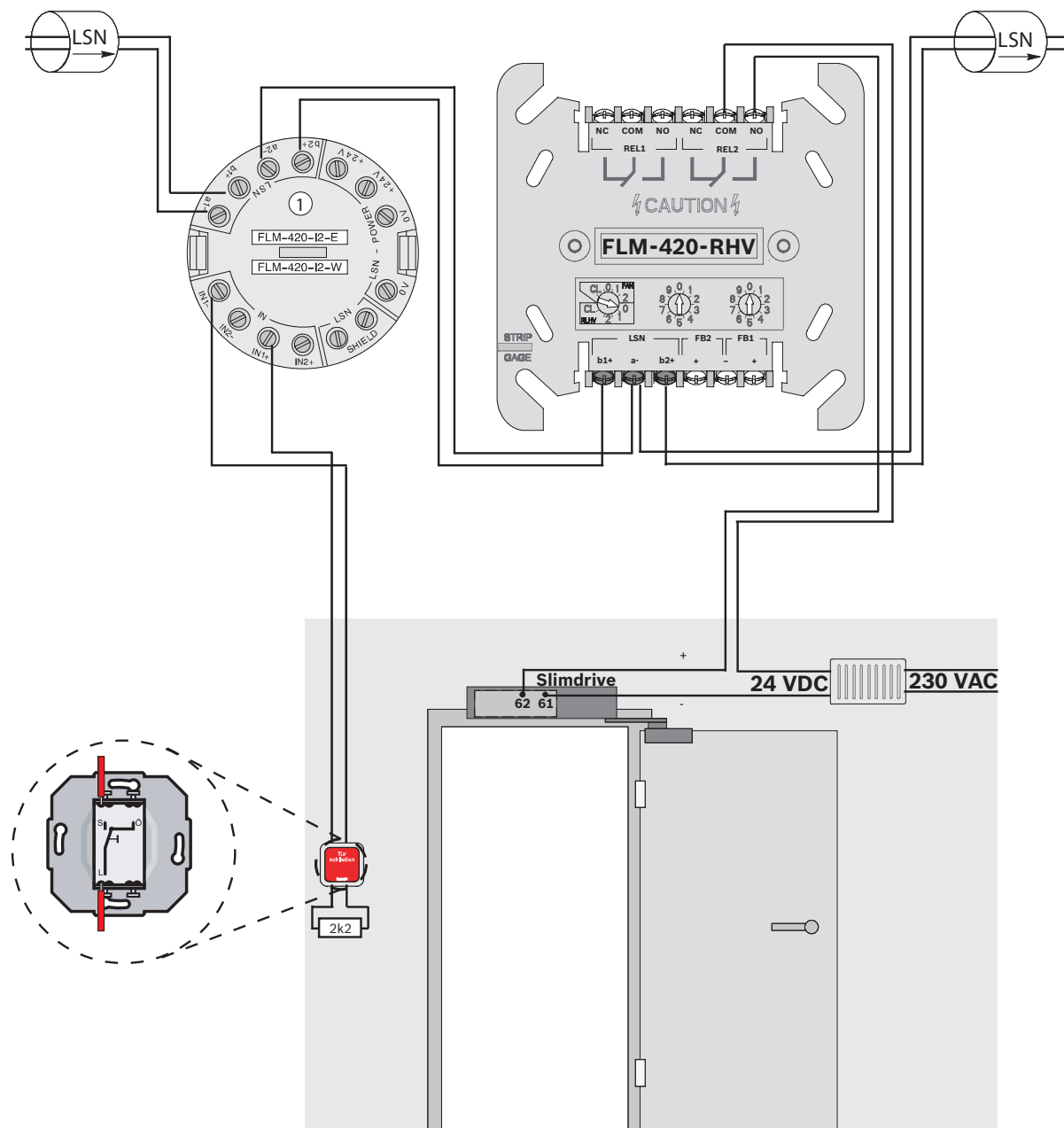
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Slimdrive EMD-F/EMD F-IS

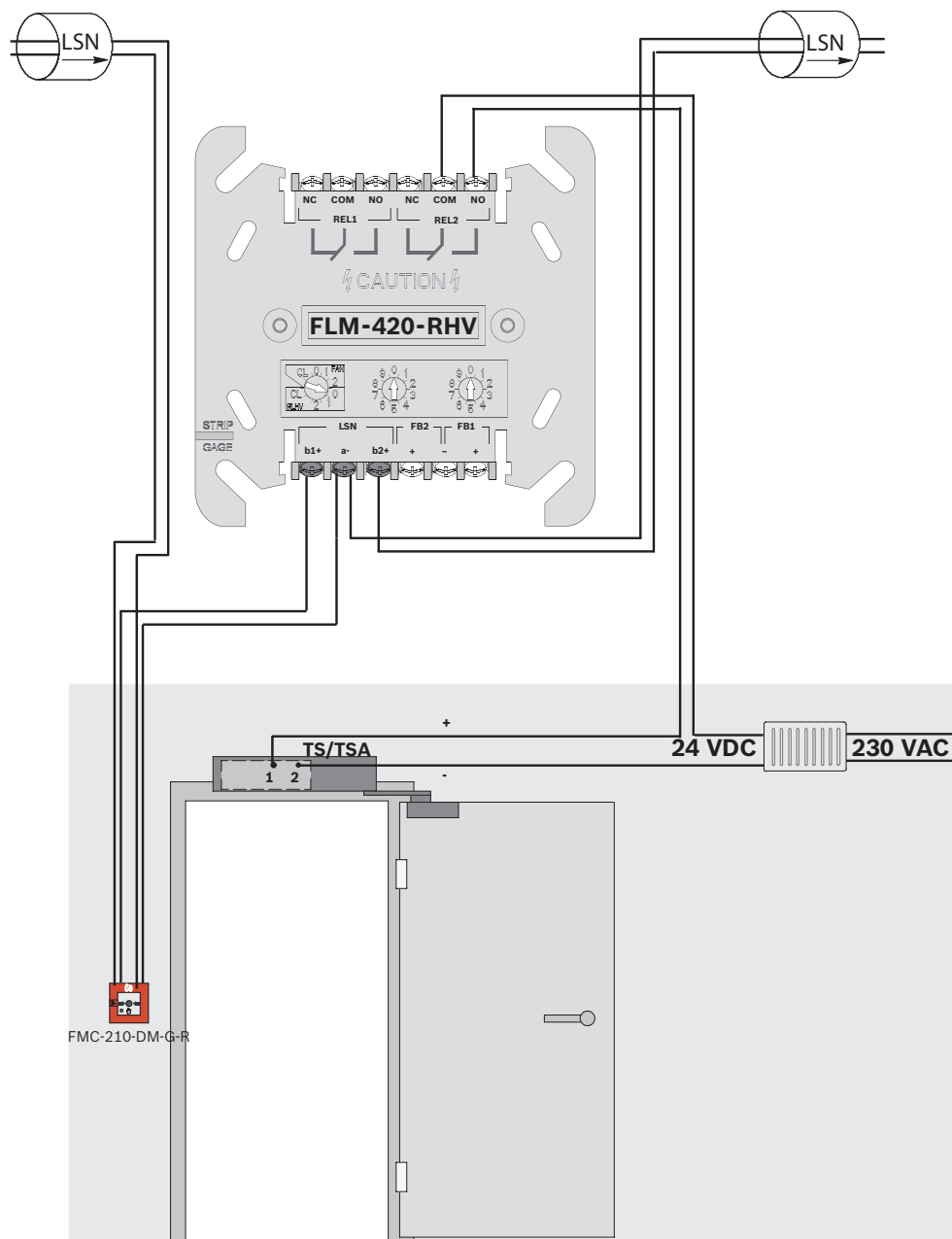
DIBT





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

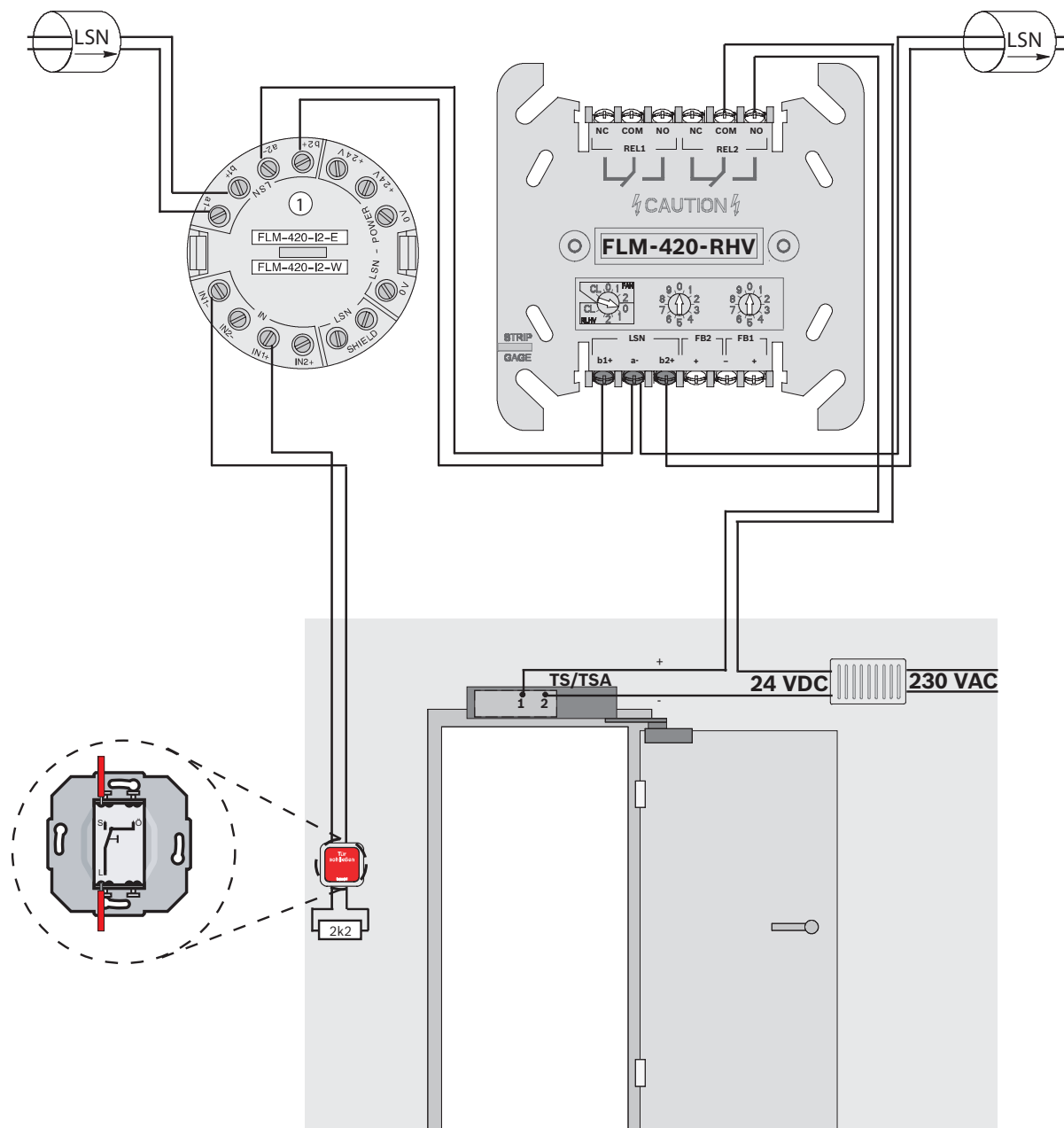
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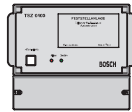
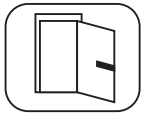




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TS 5000 E/E-IS/E-ISM
TS 550 E
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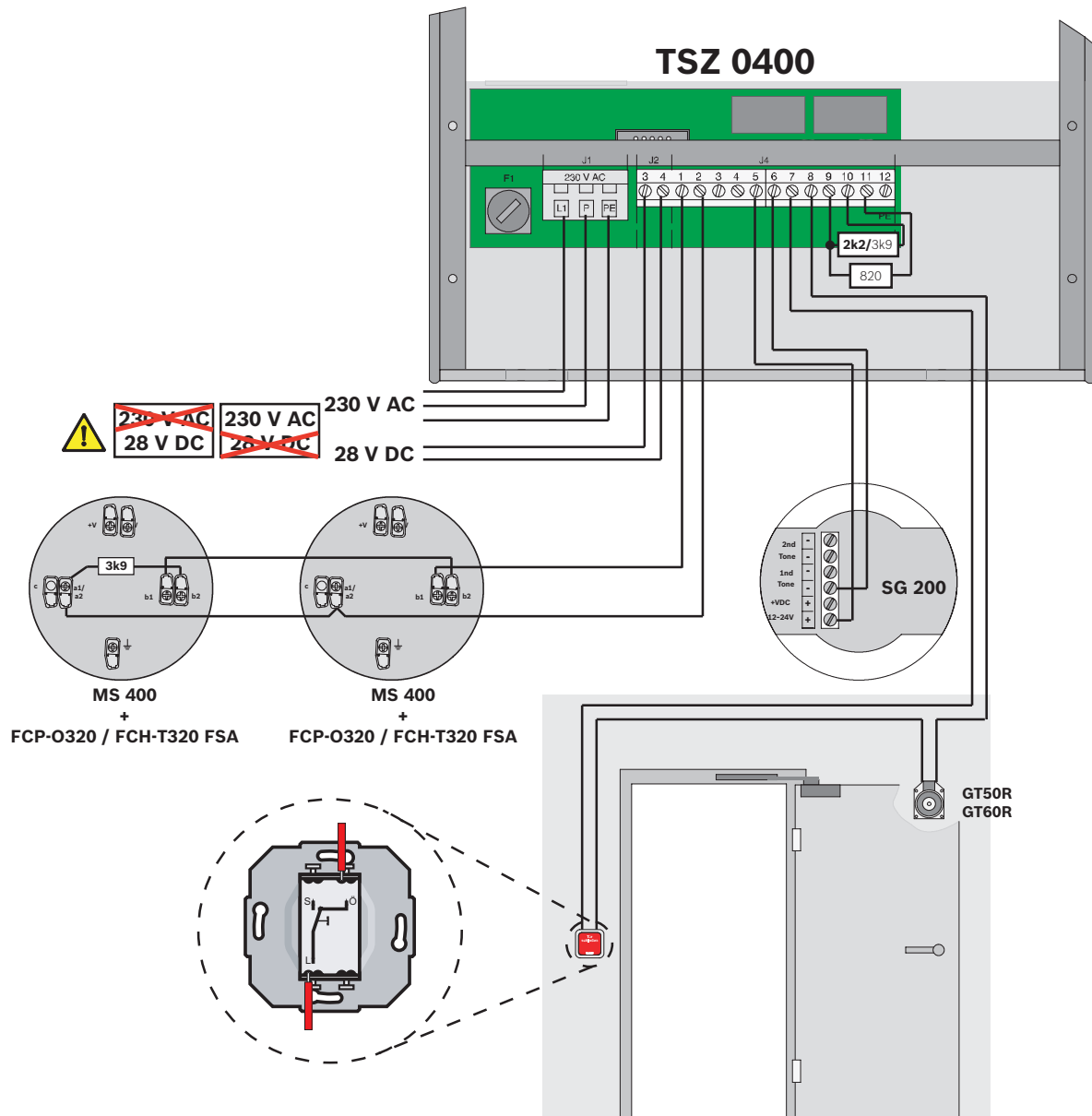
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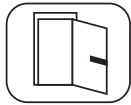




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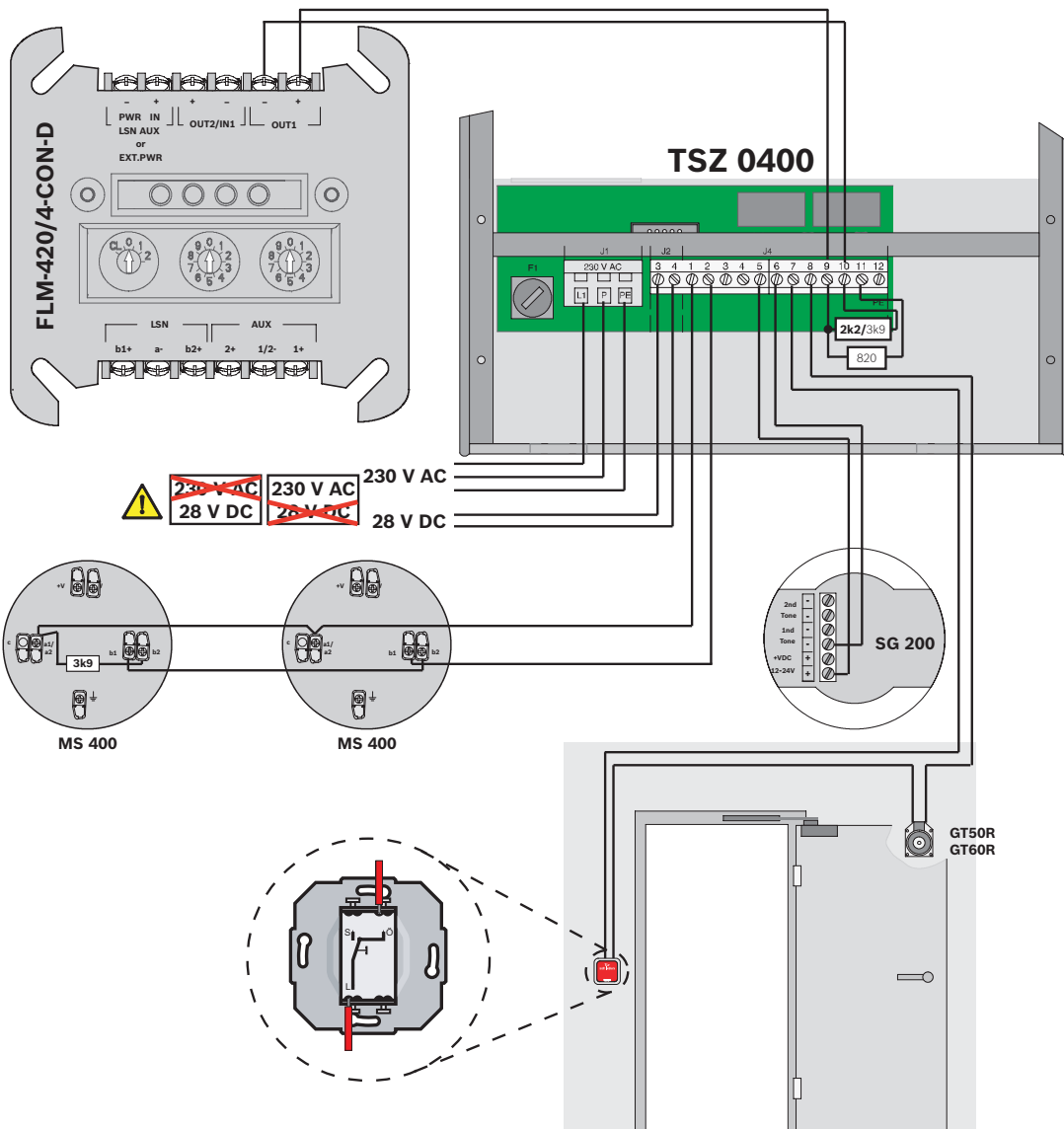
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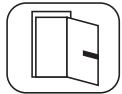




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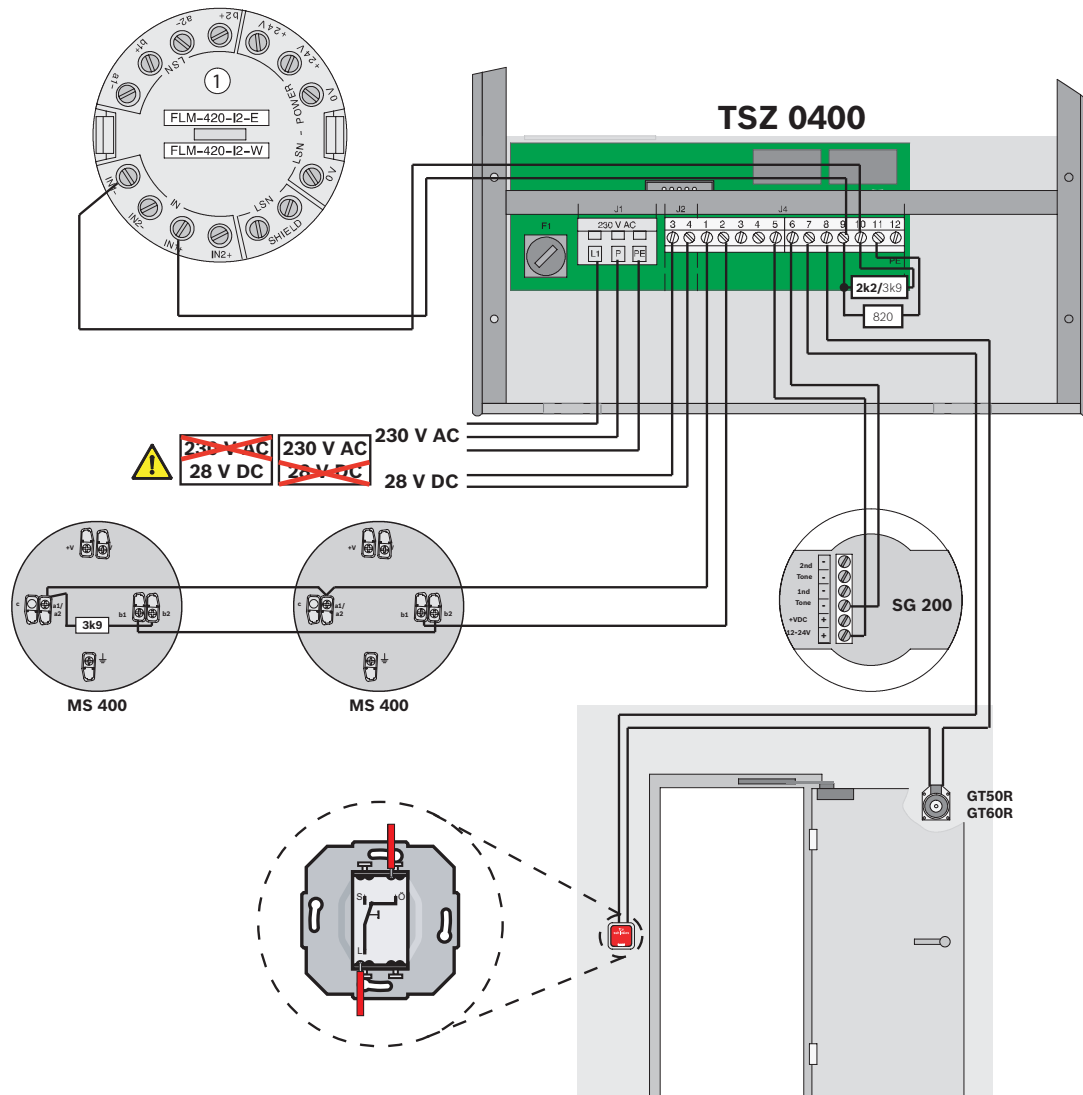
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TSZ 0400

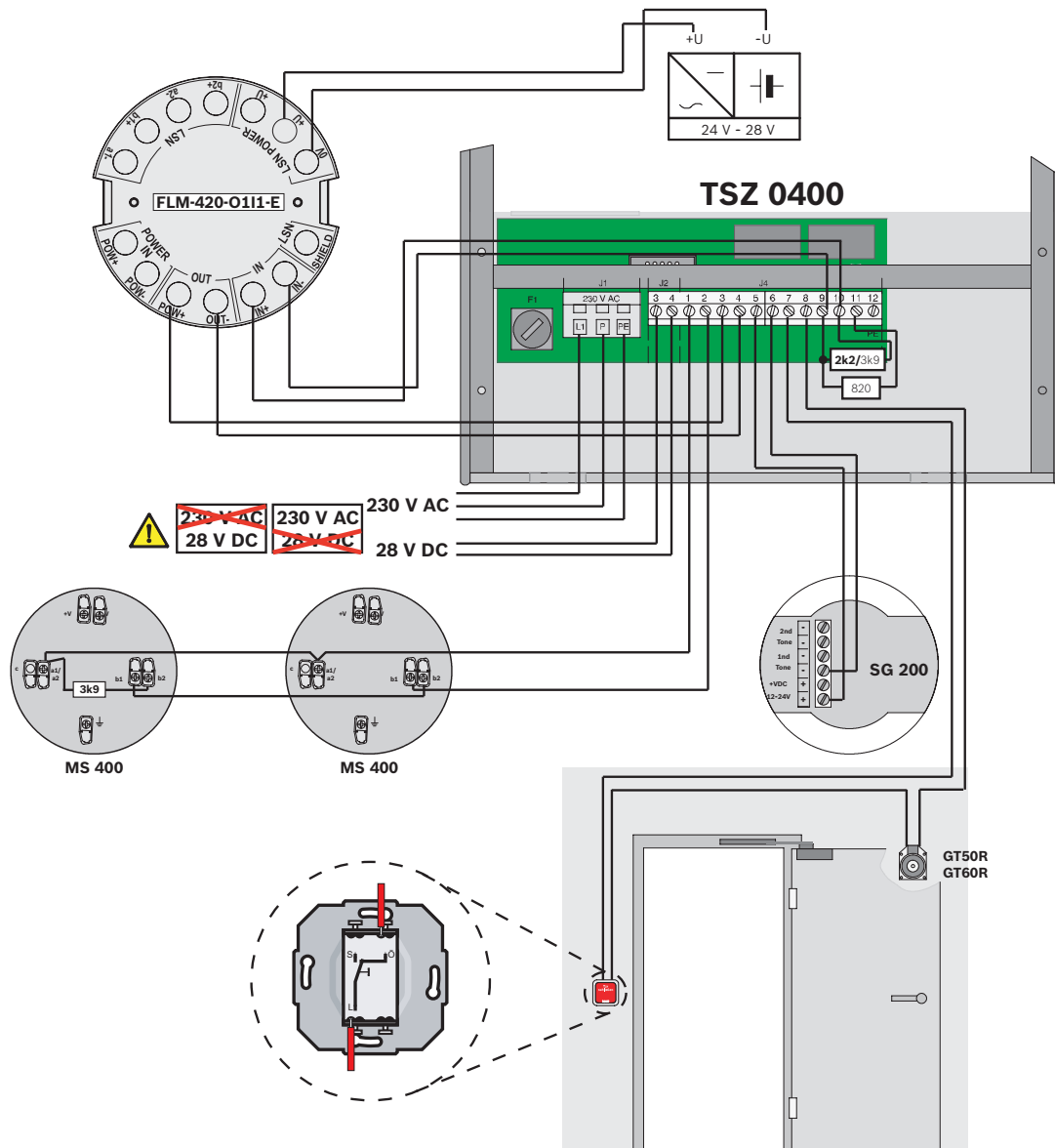
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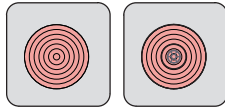




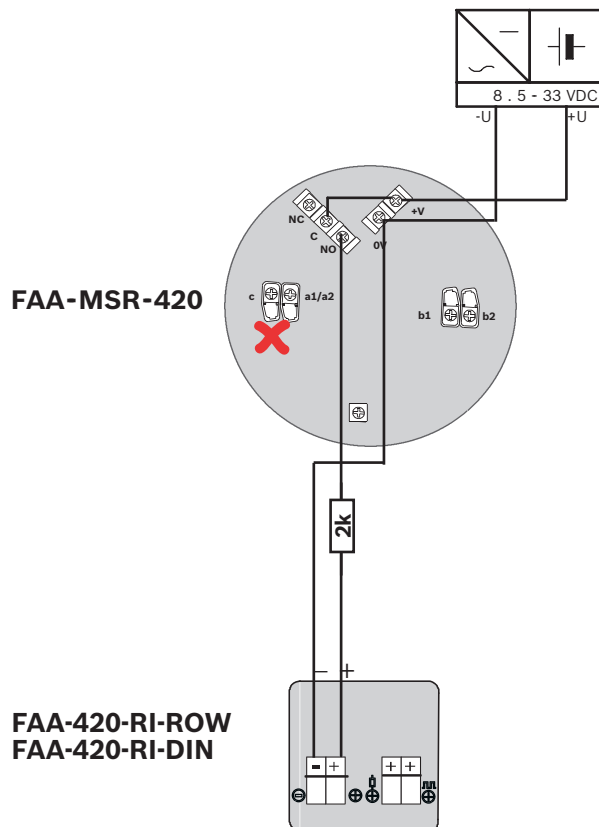
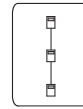
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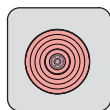
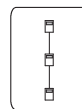
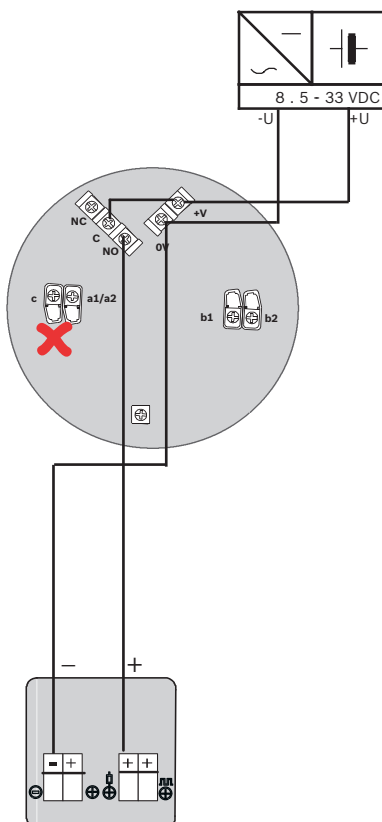
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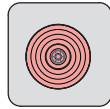
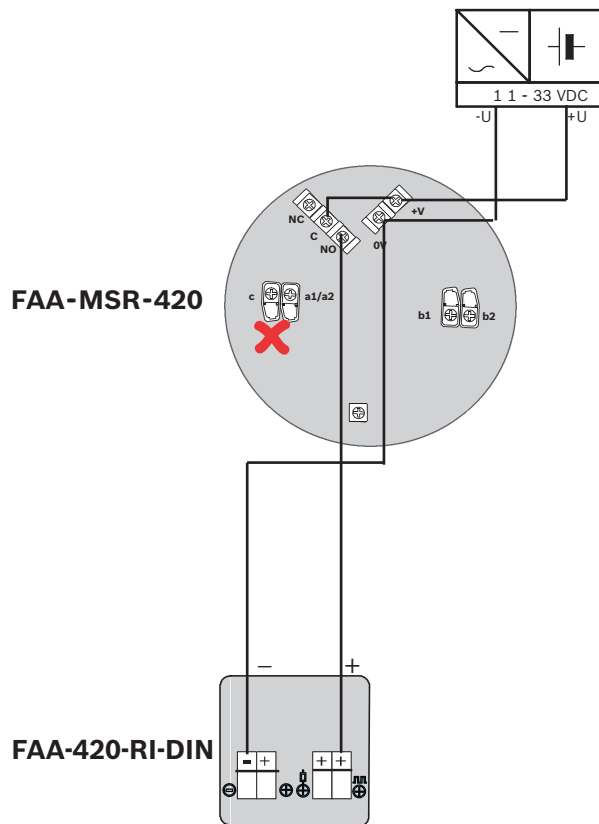
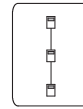




FAA-420-RI-ROW
FAA-420-RI-DIN




FAA-420-RI-DIN

FAA-MSR-420

FAA-420-RI-DIN


FAA-420-RI-DIN


3.3

Funktionsmodule



BCM-0000-B, Seite 50

CZM 0004 A, Seite 52

ENO 0000 A/B, Seite 56

LSN 0300 A, Seite 63

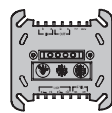
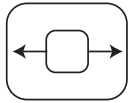
NZM 0002 A, Seite 98

RMH 0002 A, Seite 114

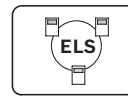
IOS 0020 A, Seite 117

FPE-5000-UGM, Seite 132

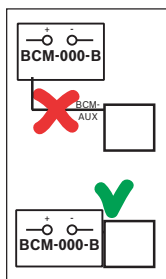
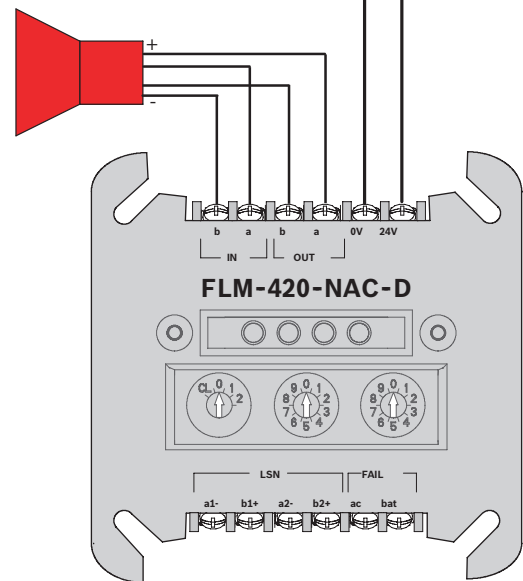
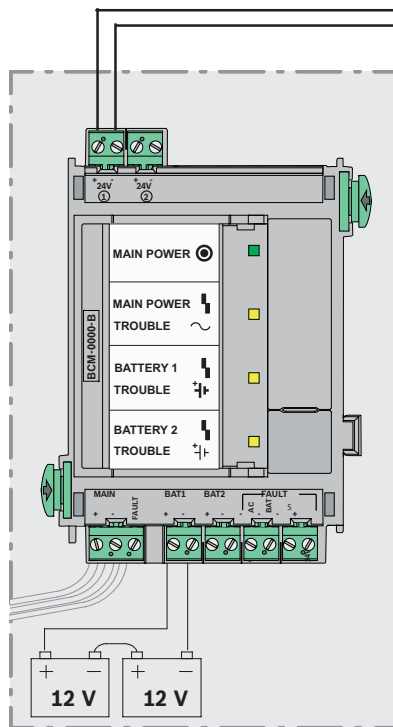
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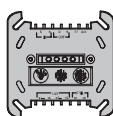
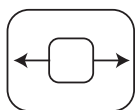
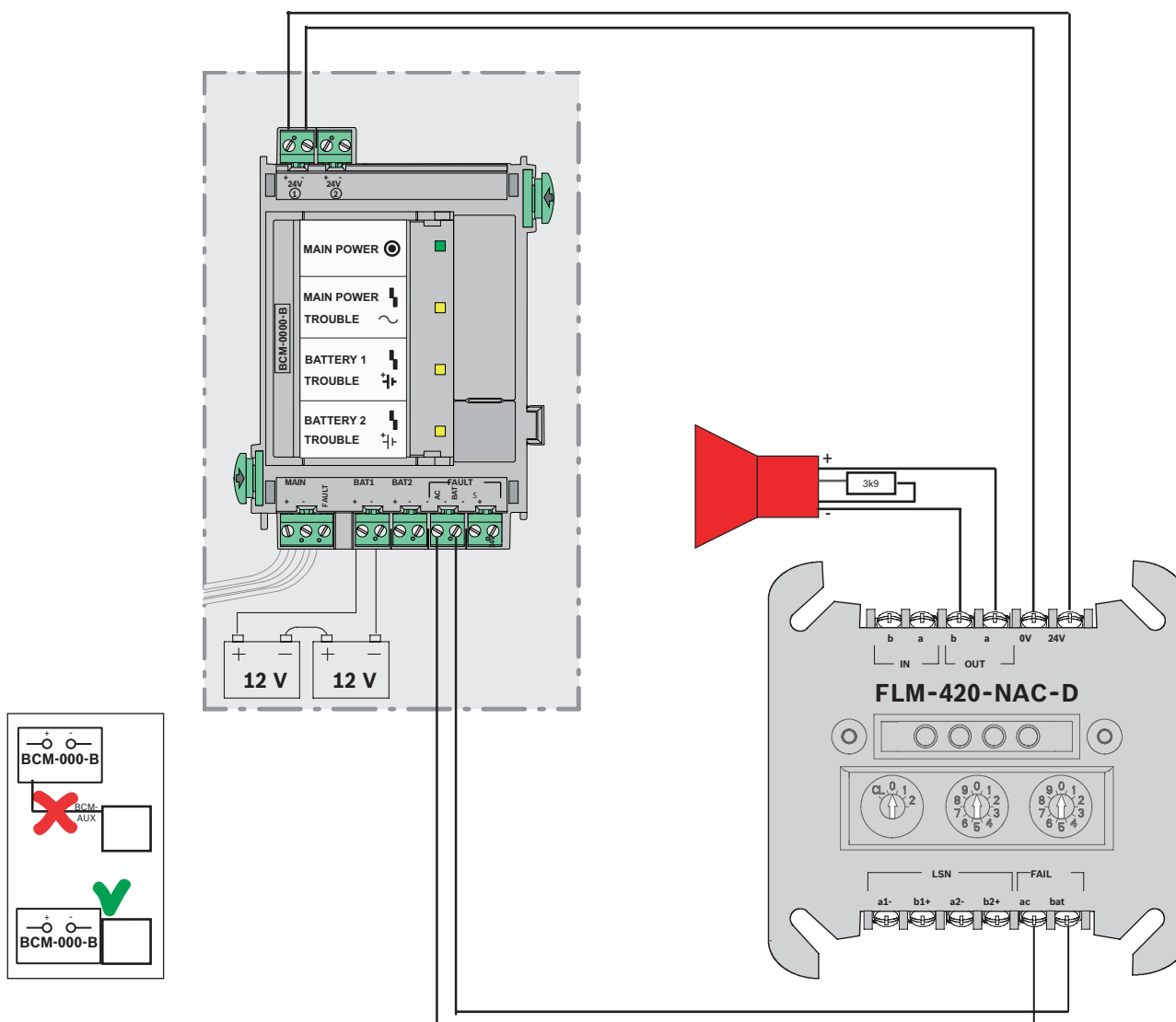
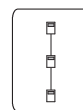


FLM-420-NAC-D



VdS 2489

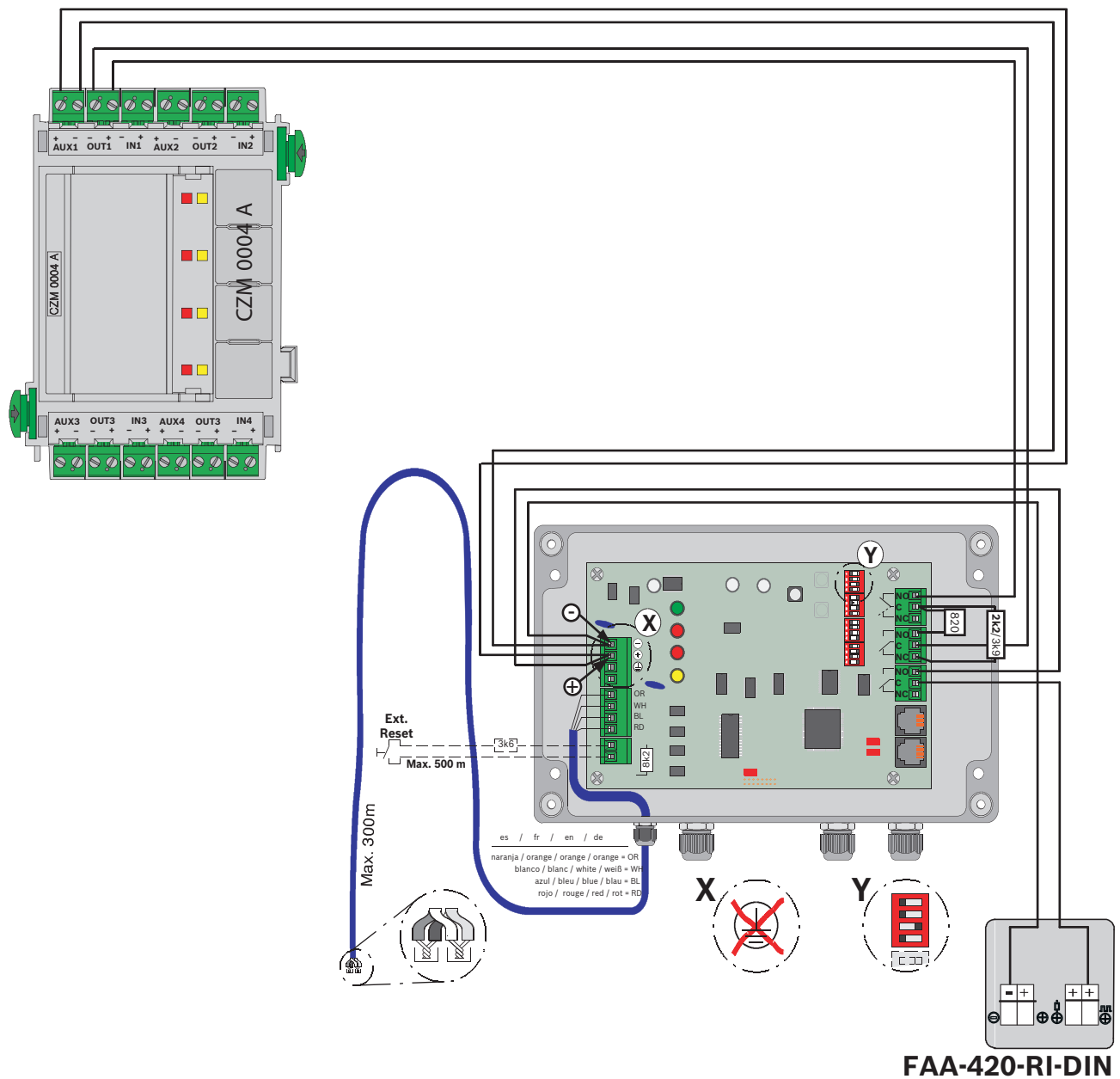


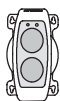
**FLM-420-NAC-D**

3.3.2 CZM 0004 A

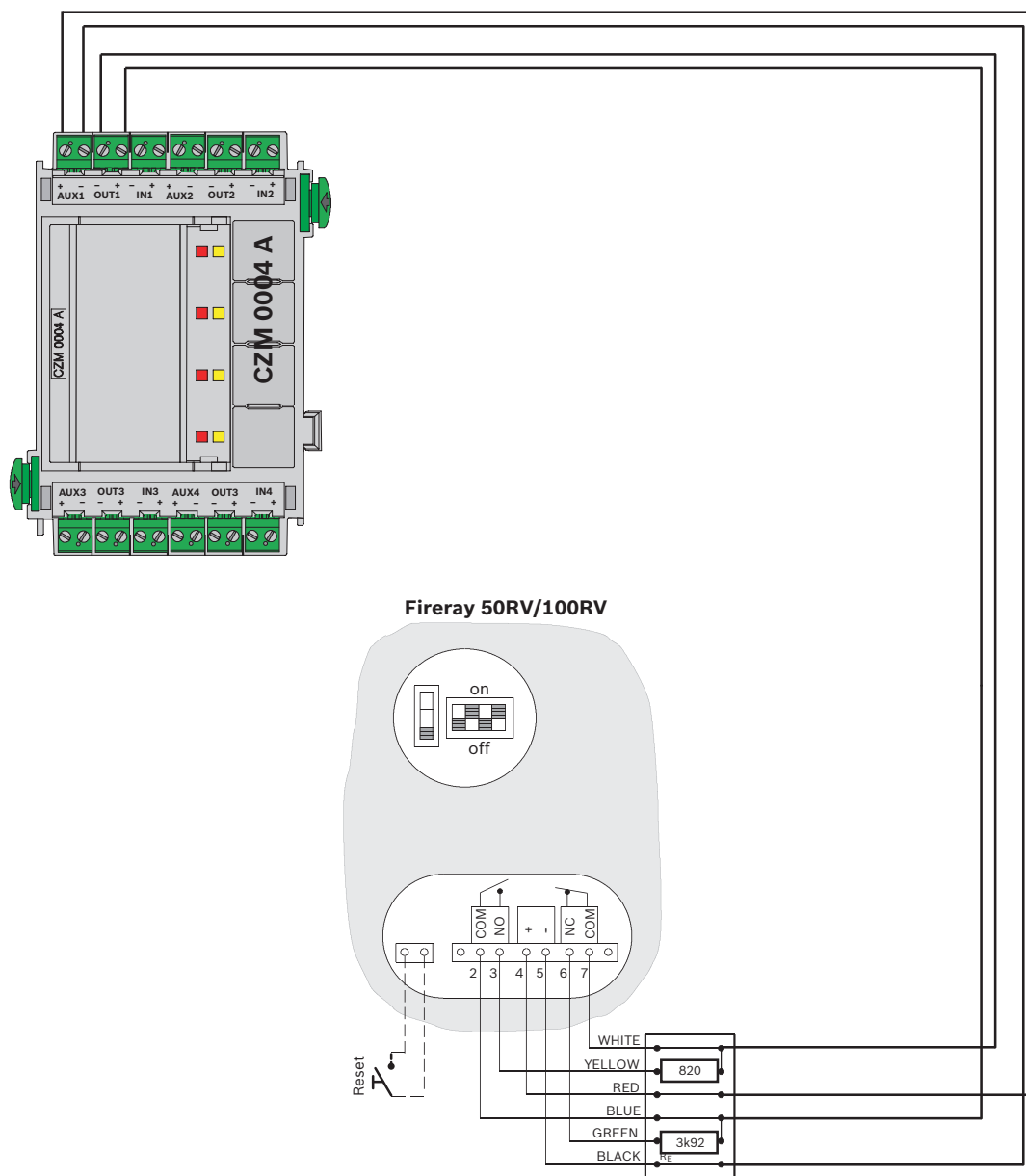


FCS-LWM-1



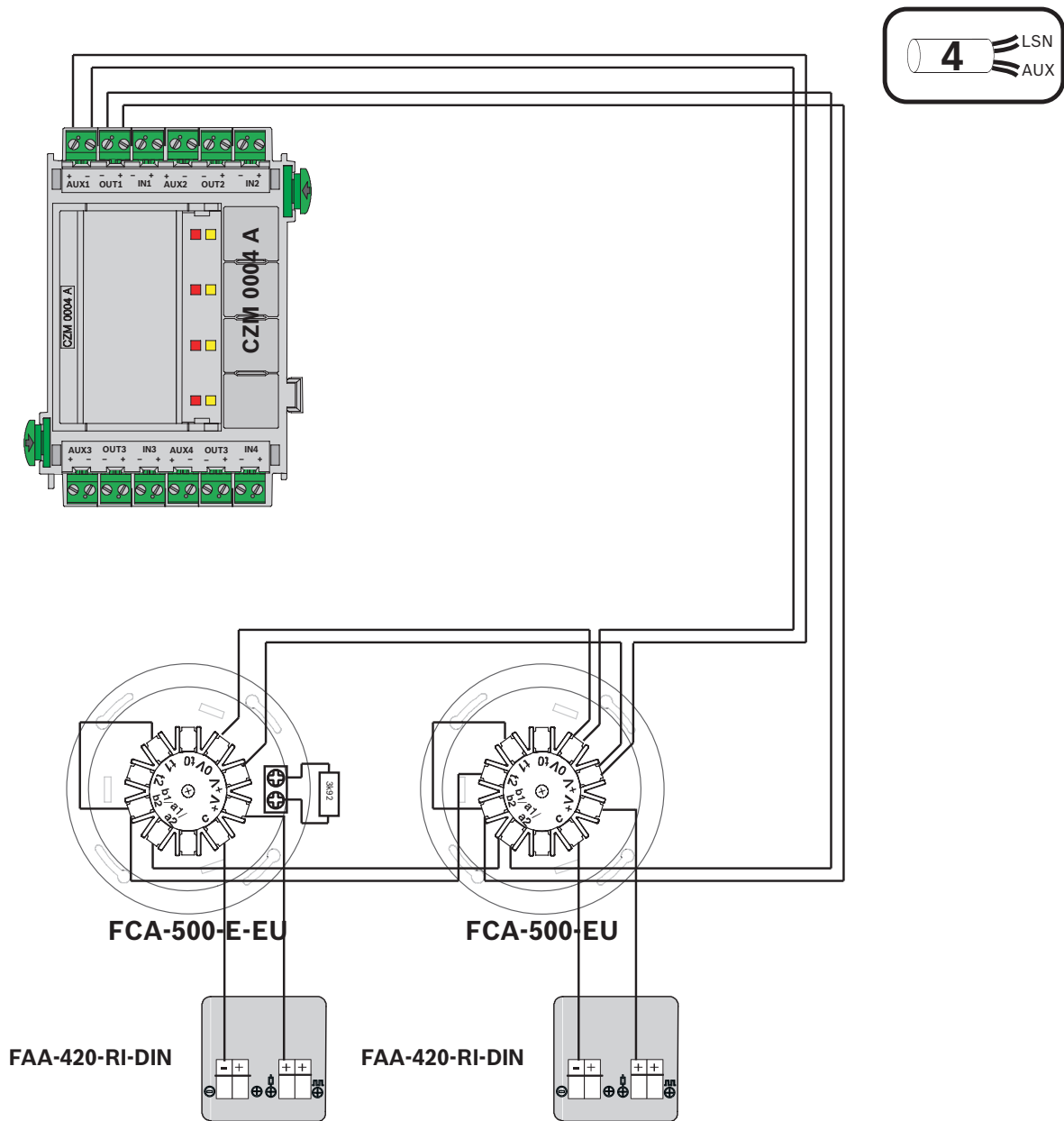
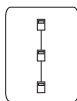


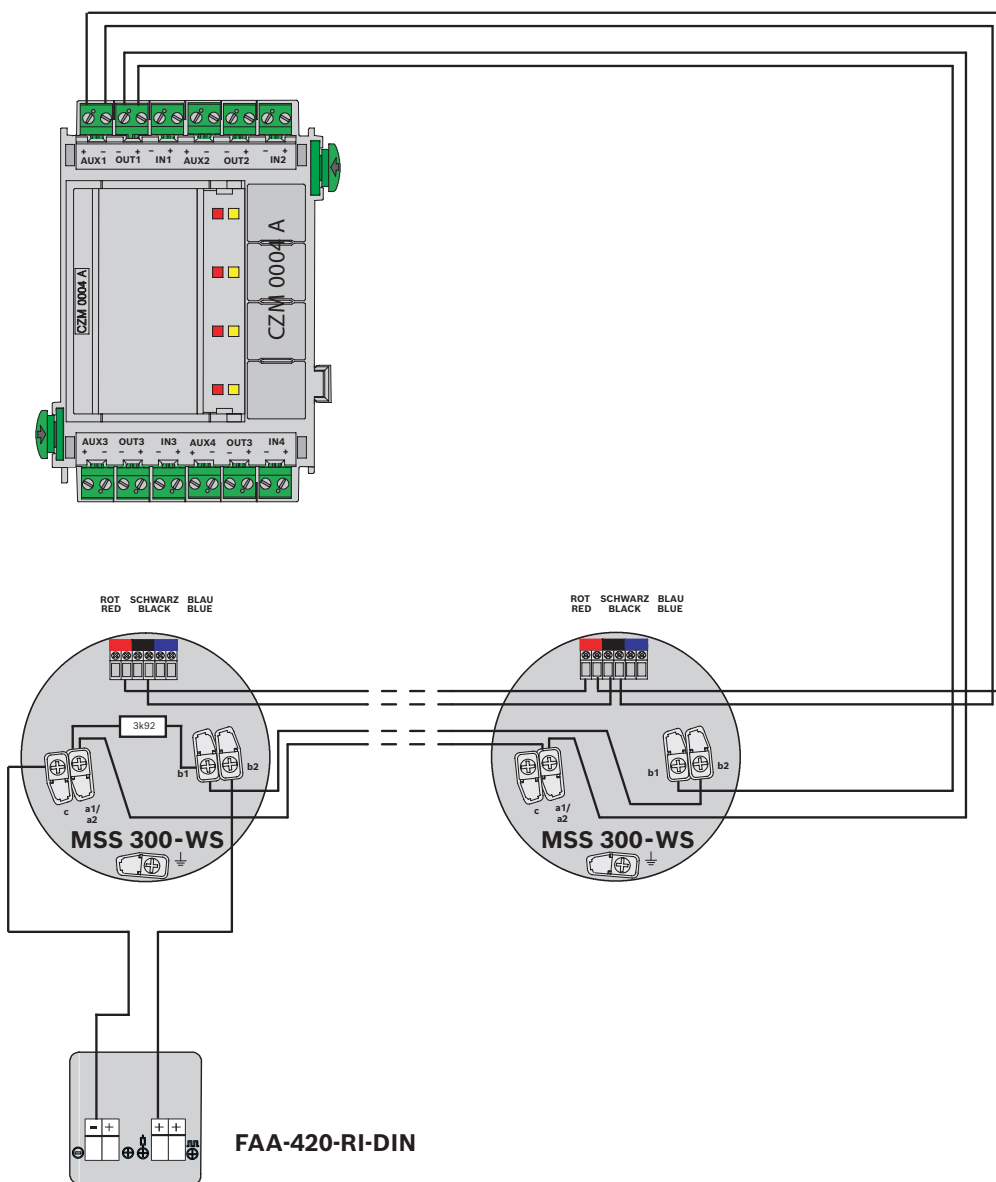
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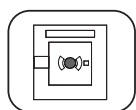
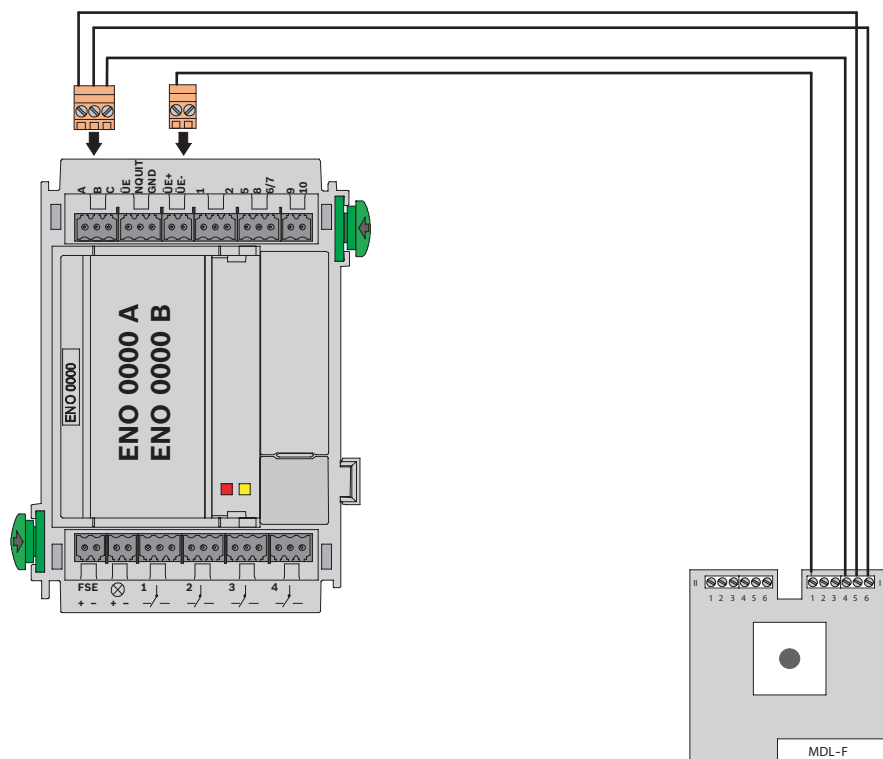


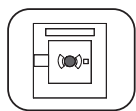


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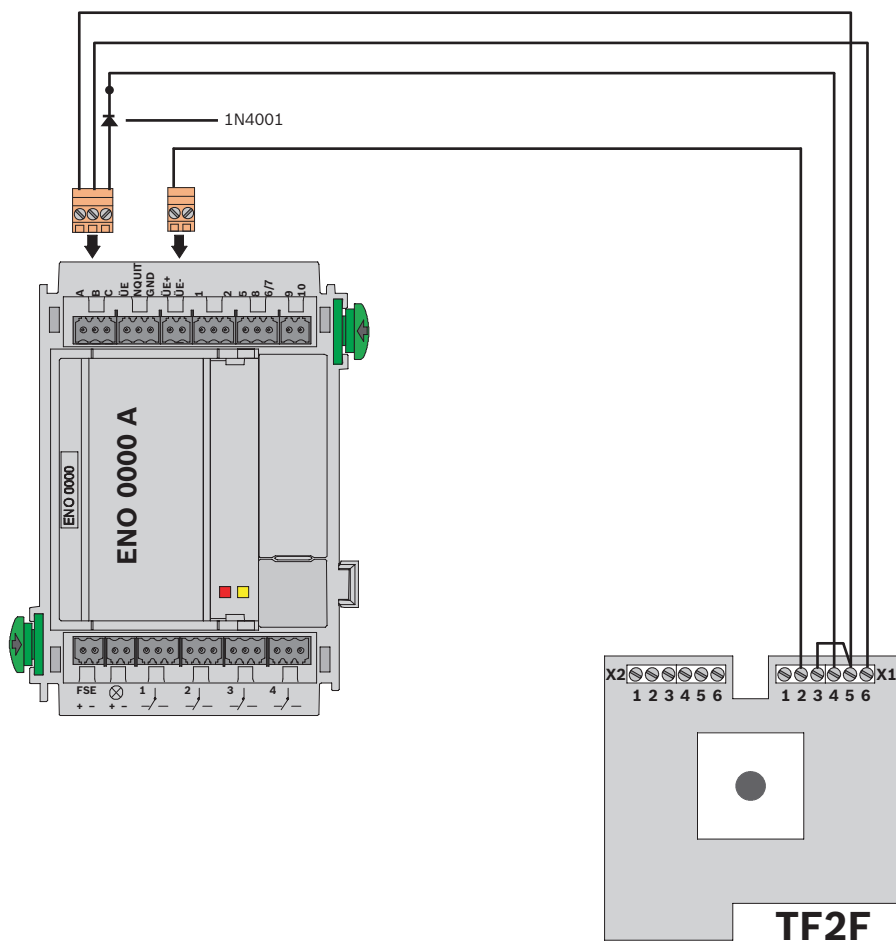
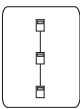


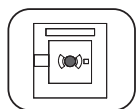
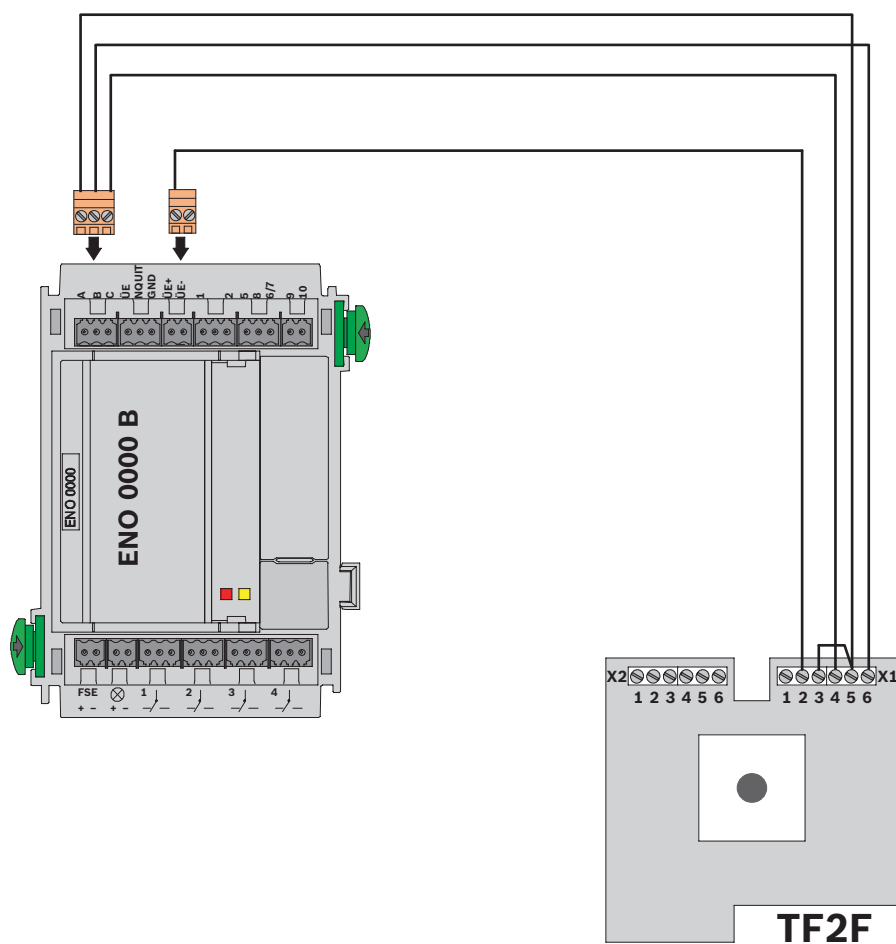
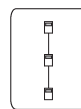
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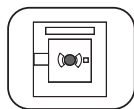
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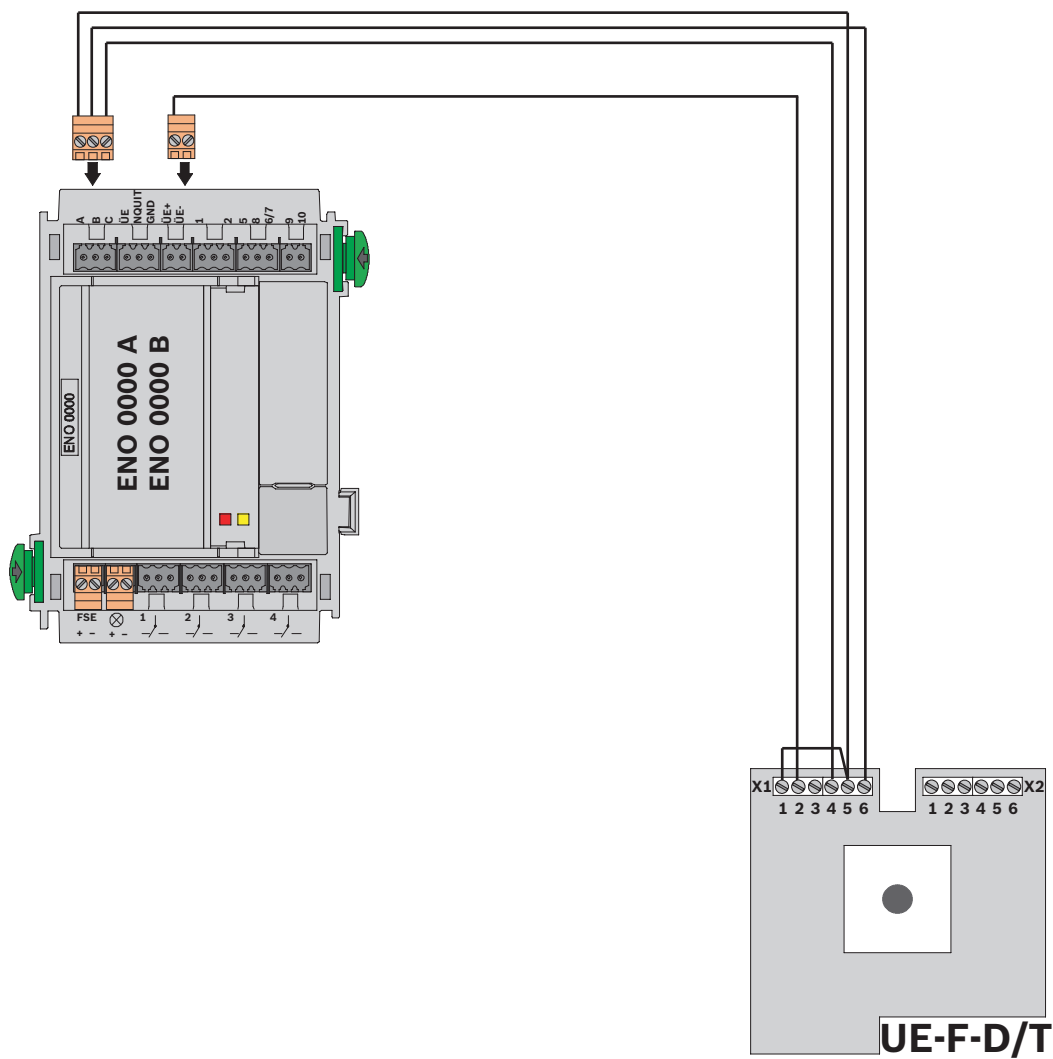
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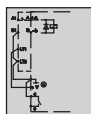
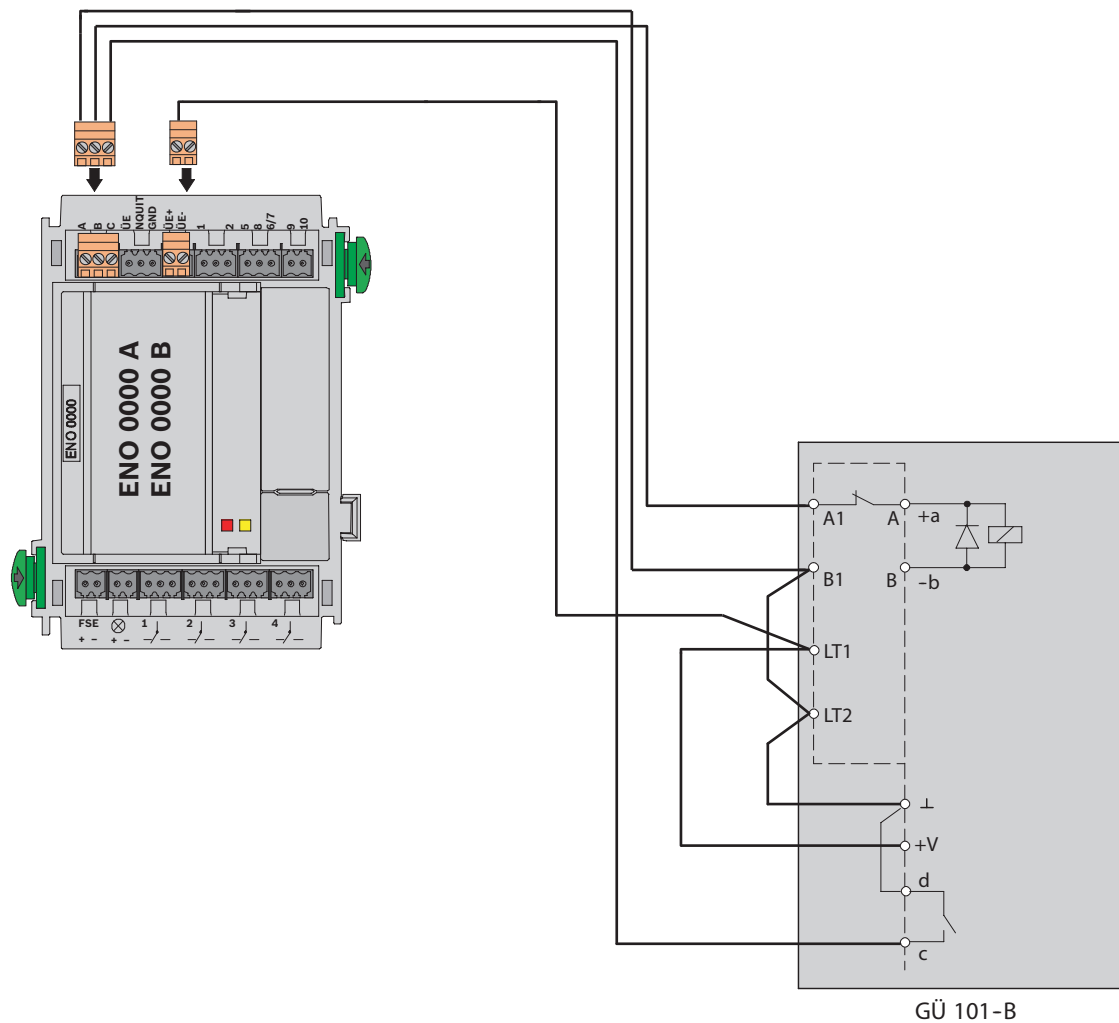
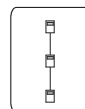


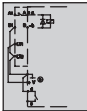
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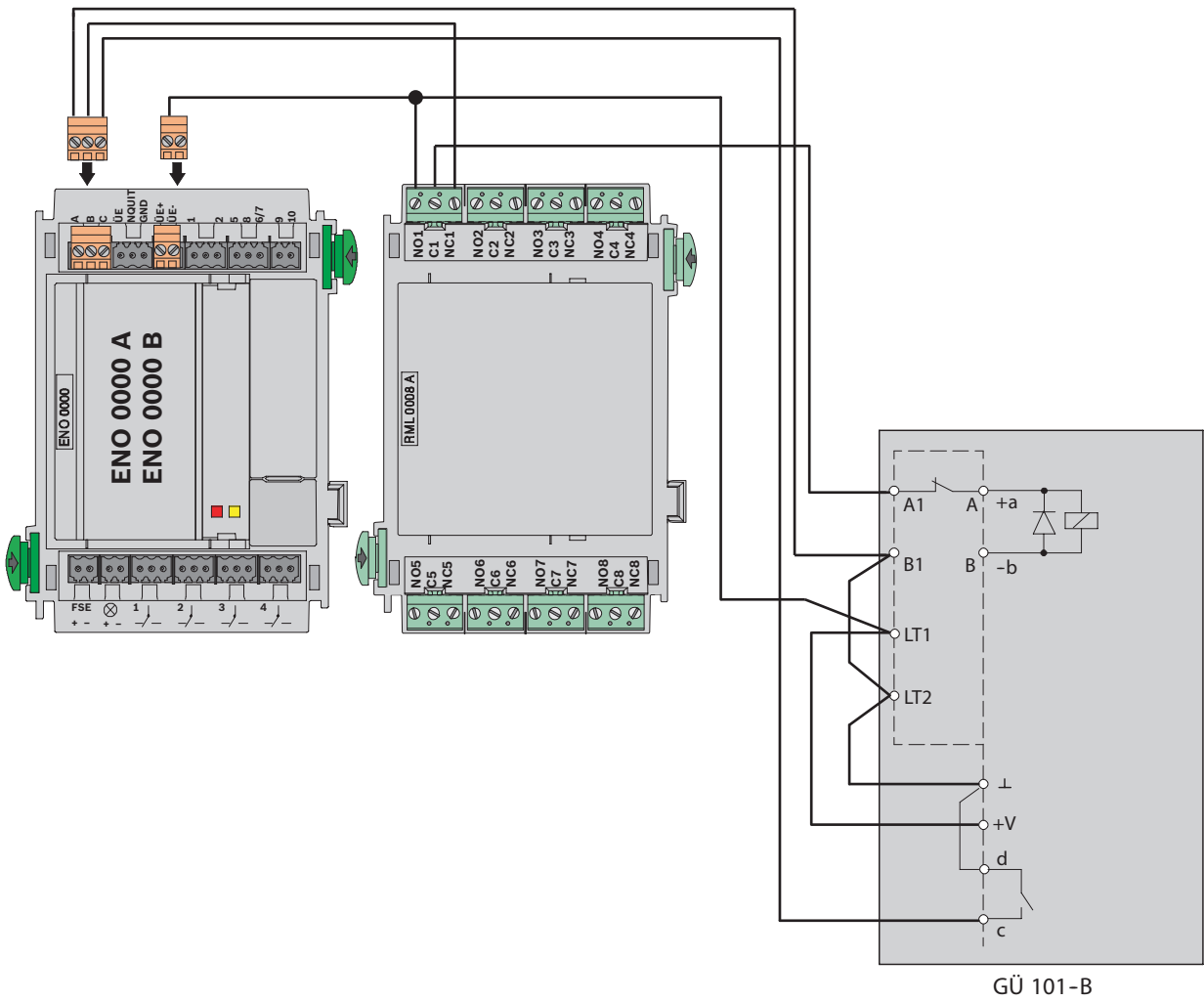
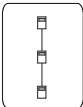
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**GÜ 101-B**



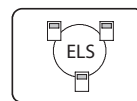
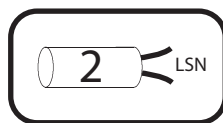
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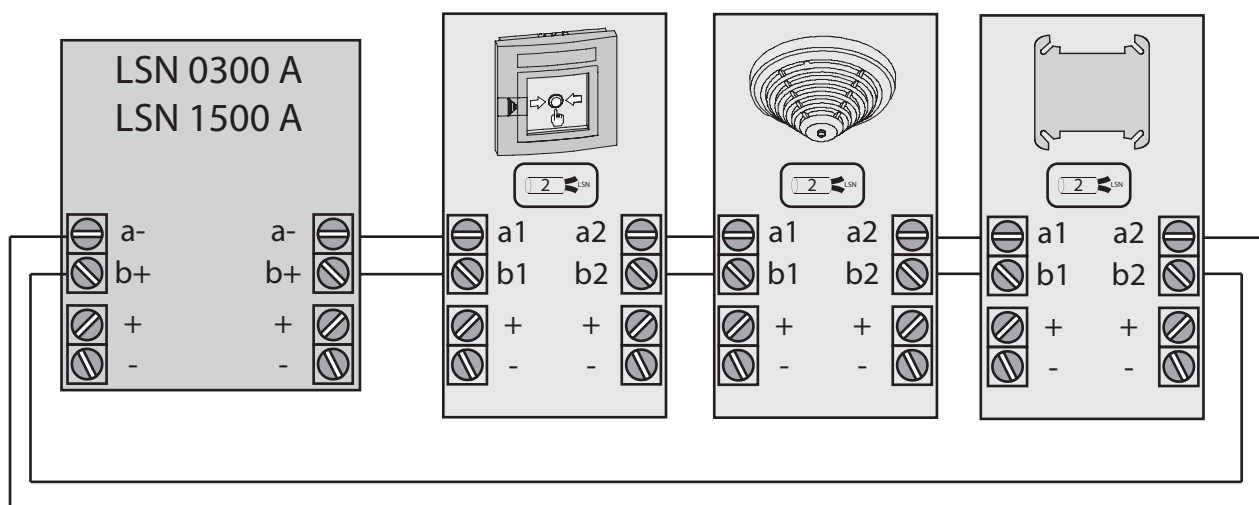
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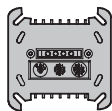
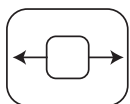
3.3.4

LSN 0300 A

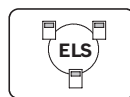


VdS 2489

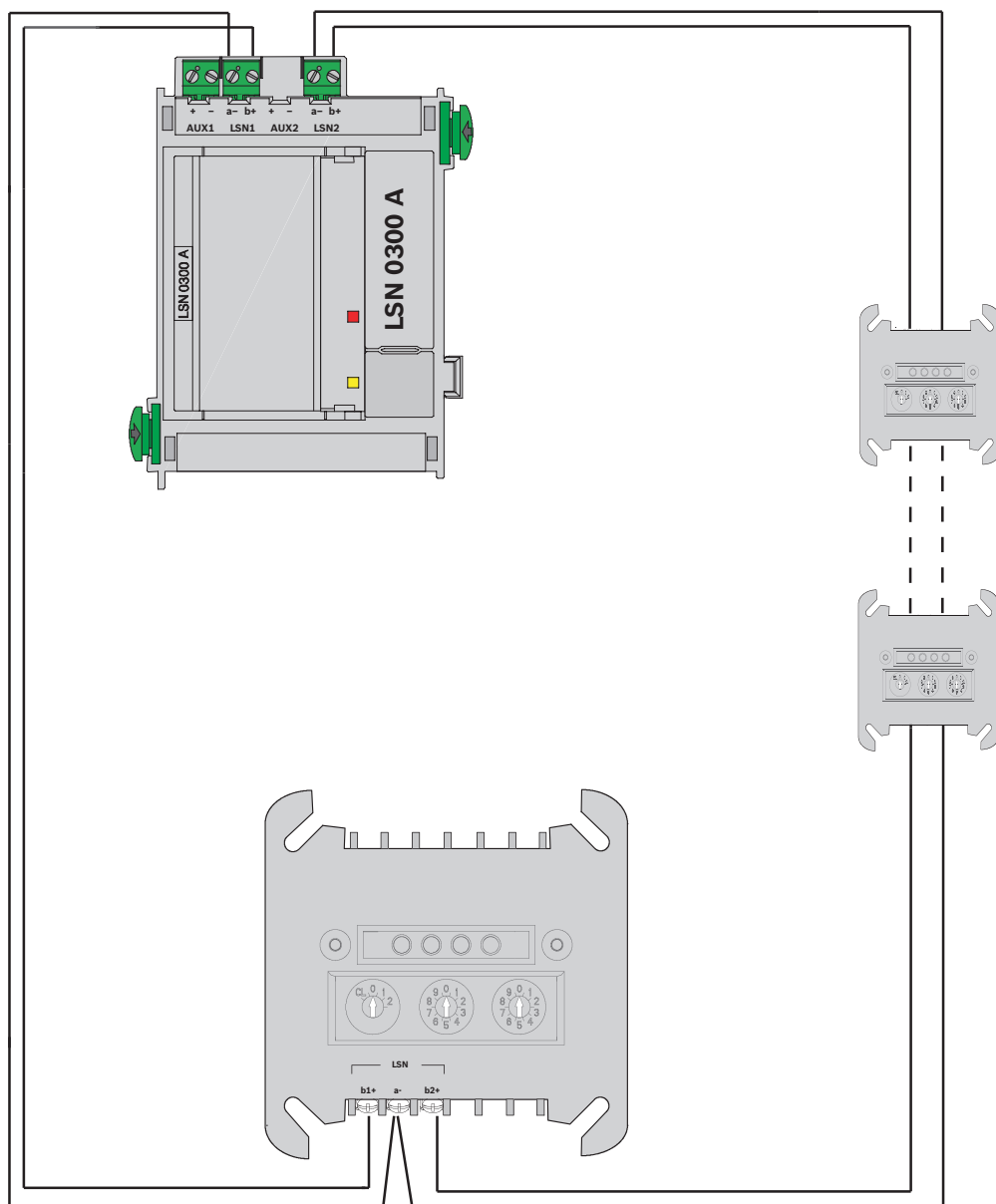


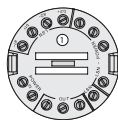
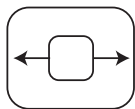


FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

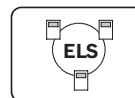


VdS 2489

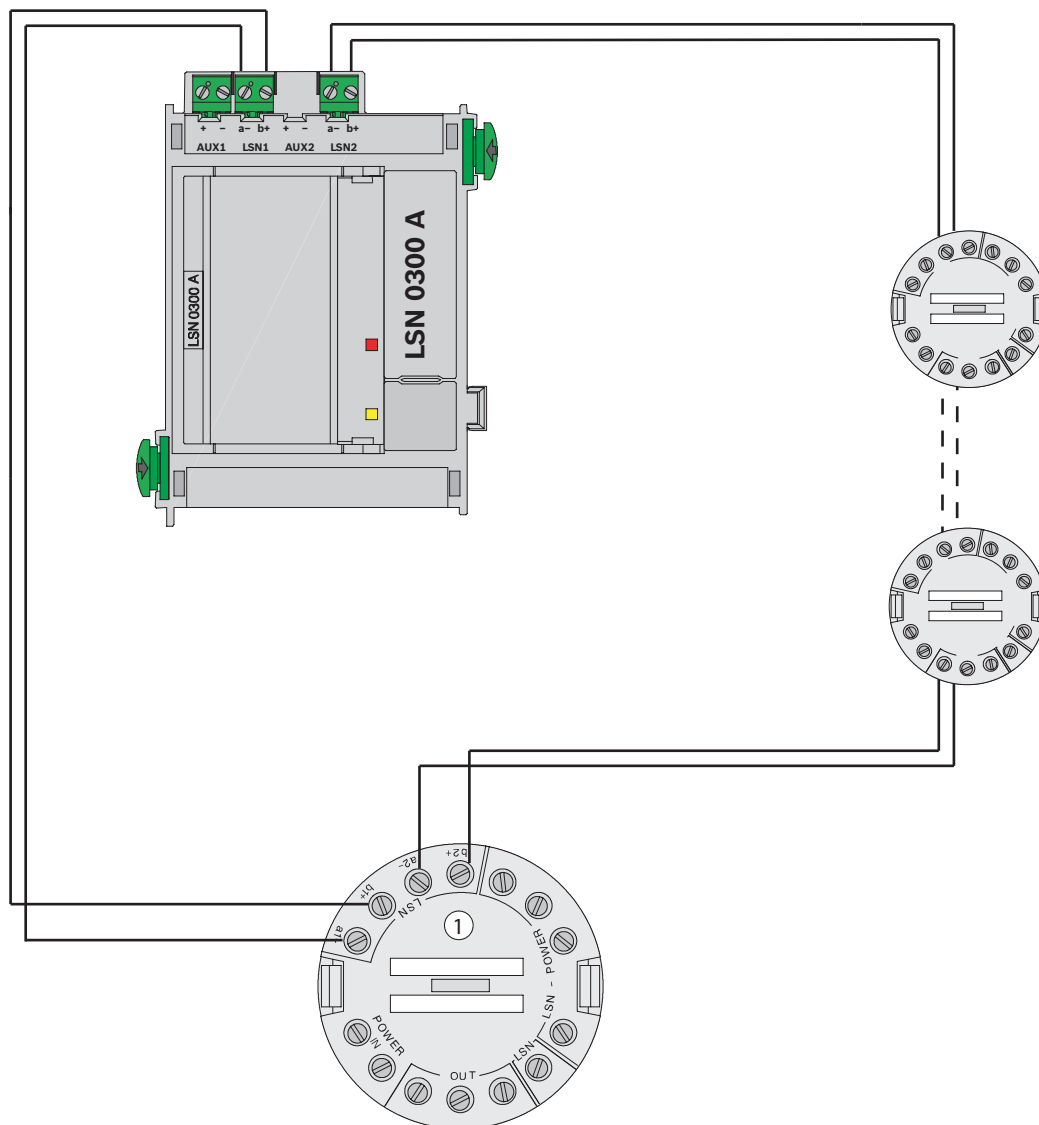


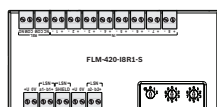
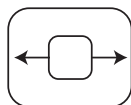
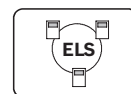
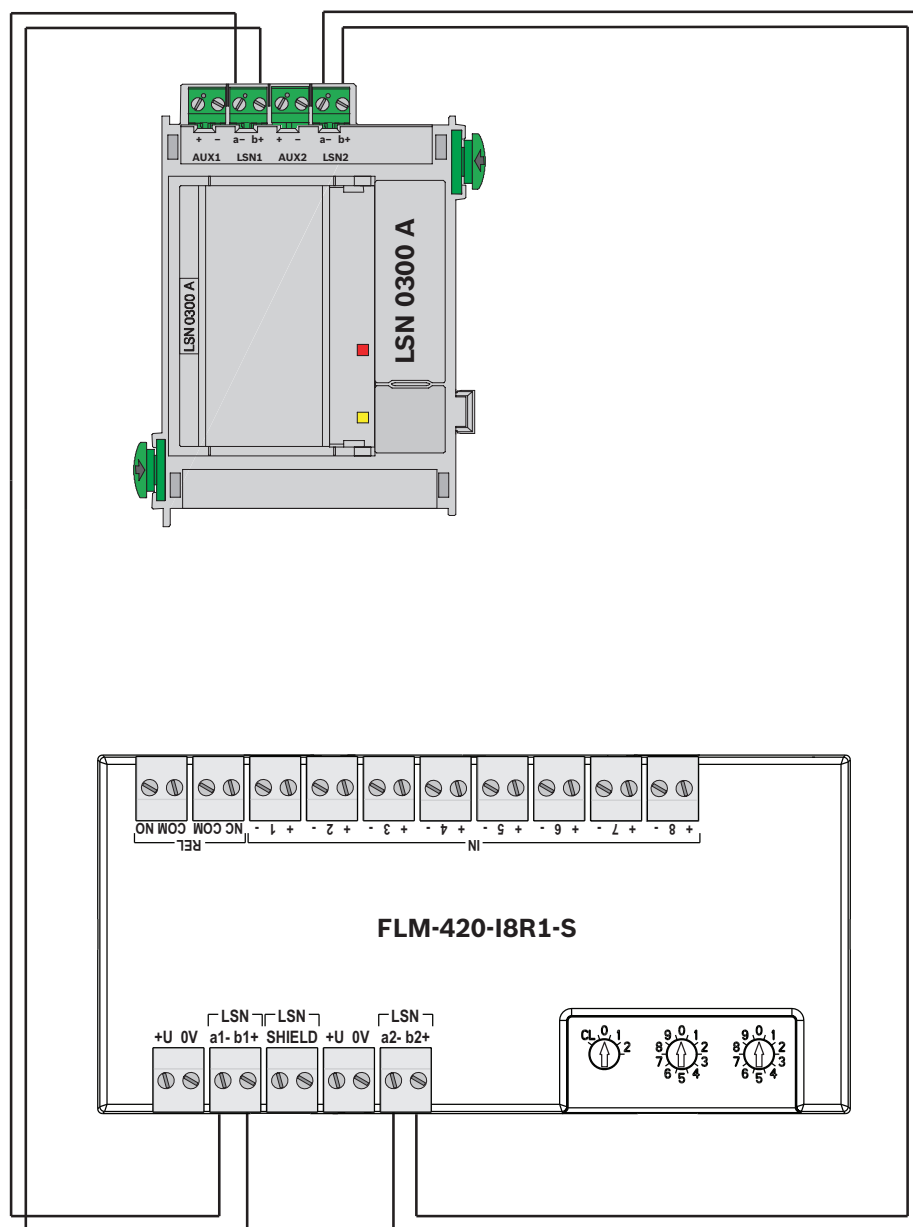


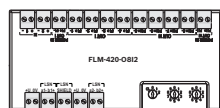
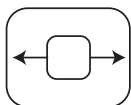
FLM-420-I2-E/W
FLM-420-RLV1-E



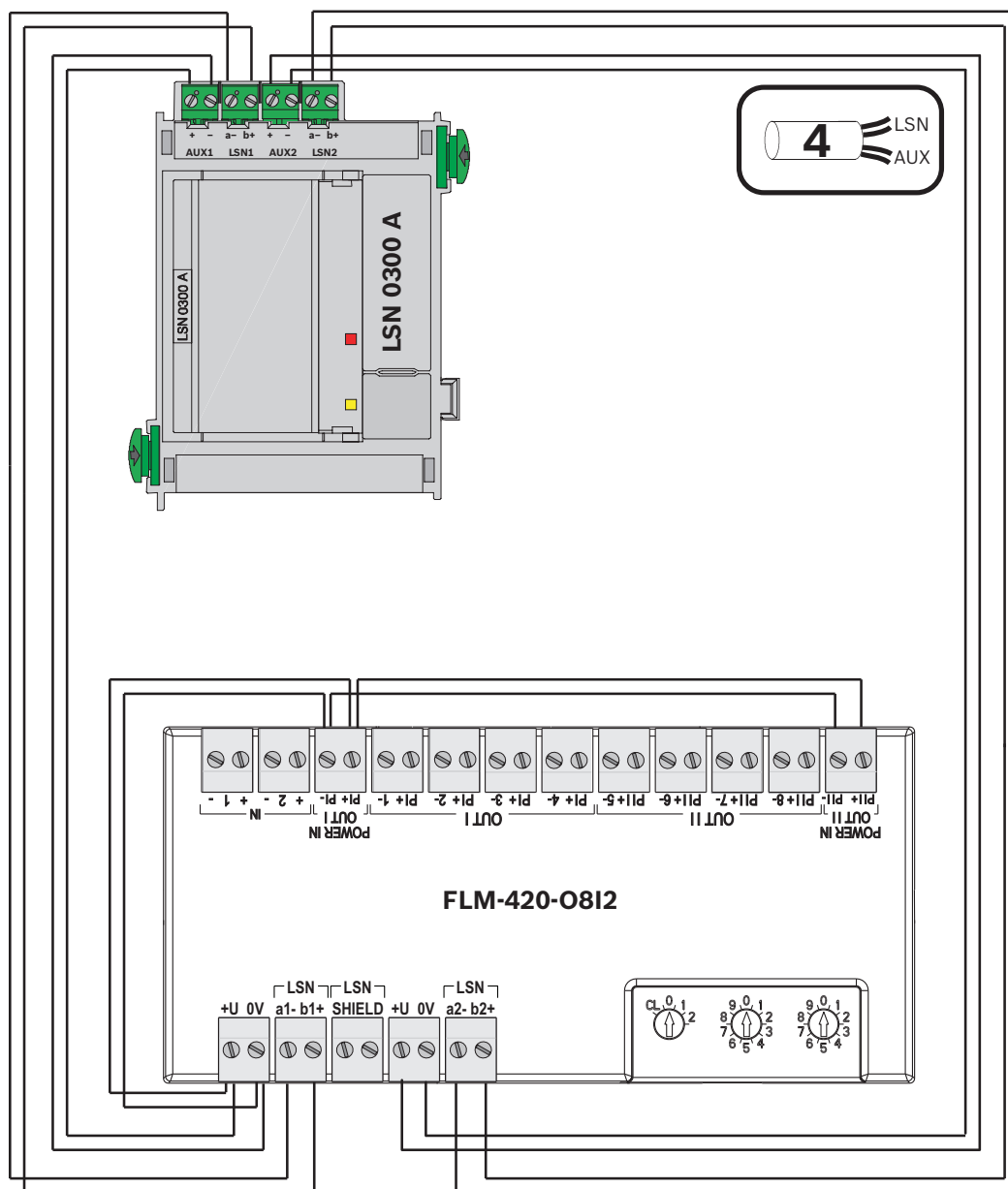
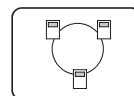
VdS 2489

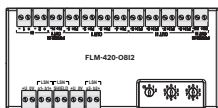
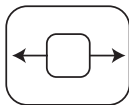


**FLM-420-I8R1-S****VdS 2489**

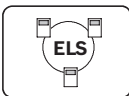


FLM-420-O8I2-S

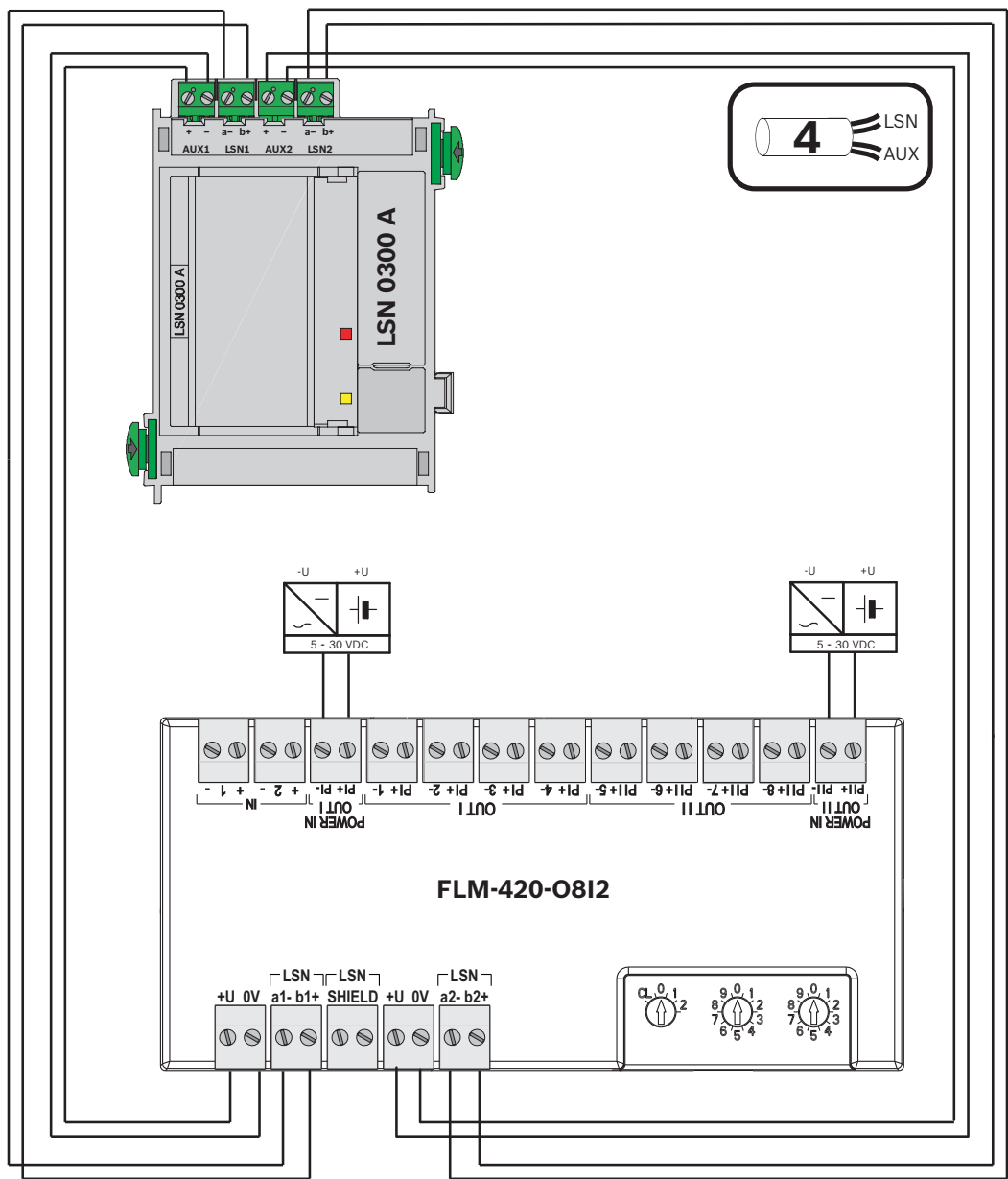


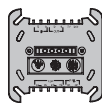
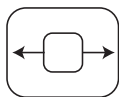


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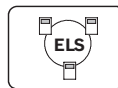


VdS 2489

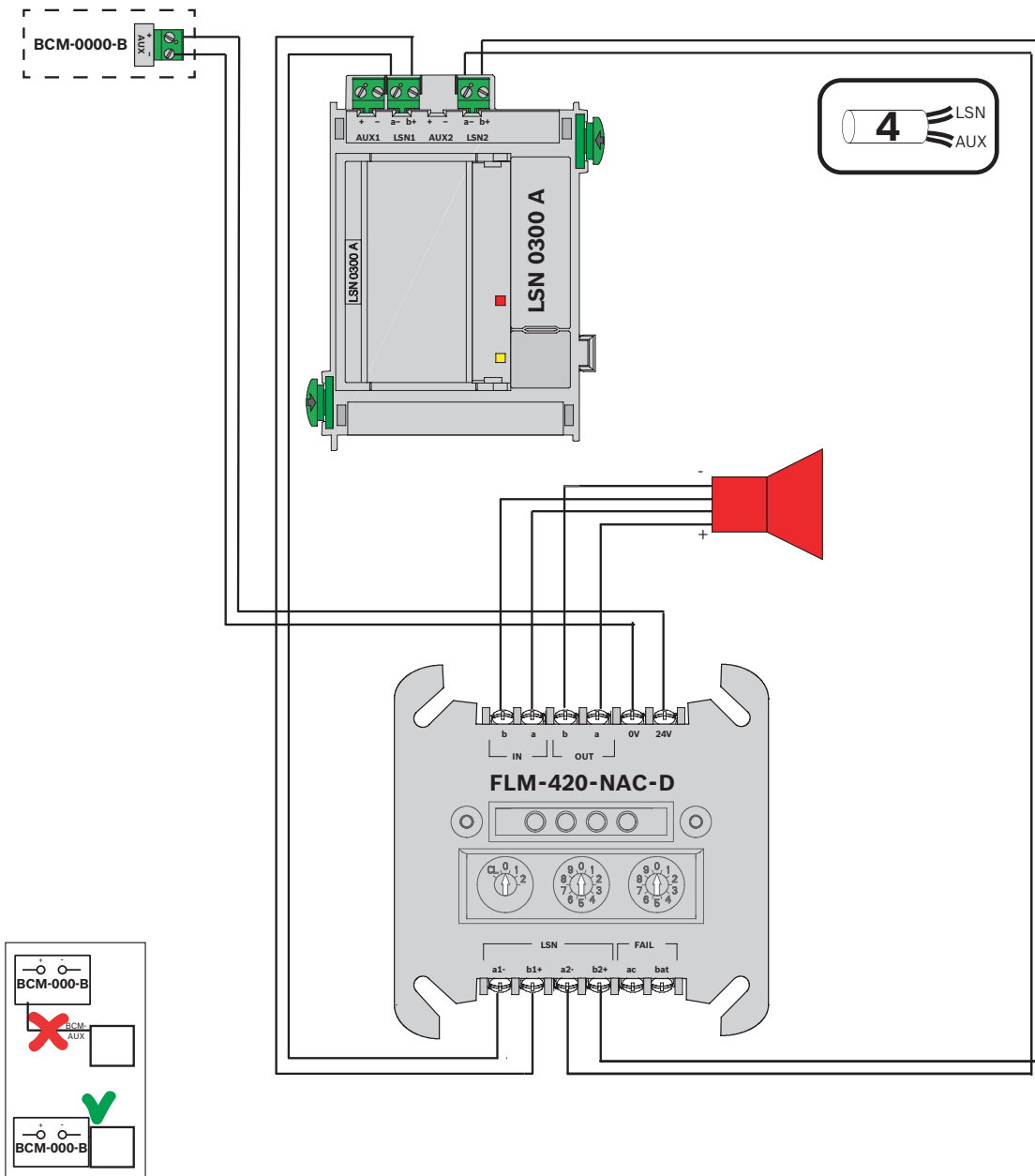


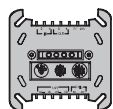
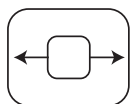
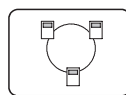
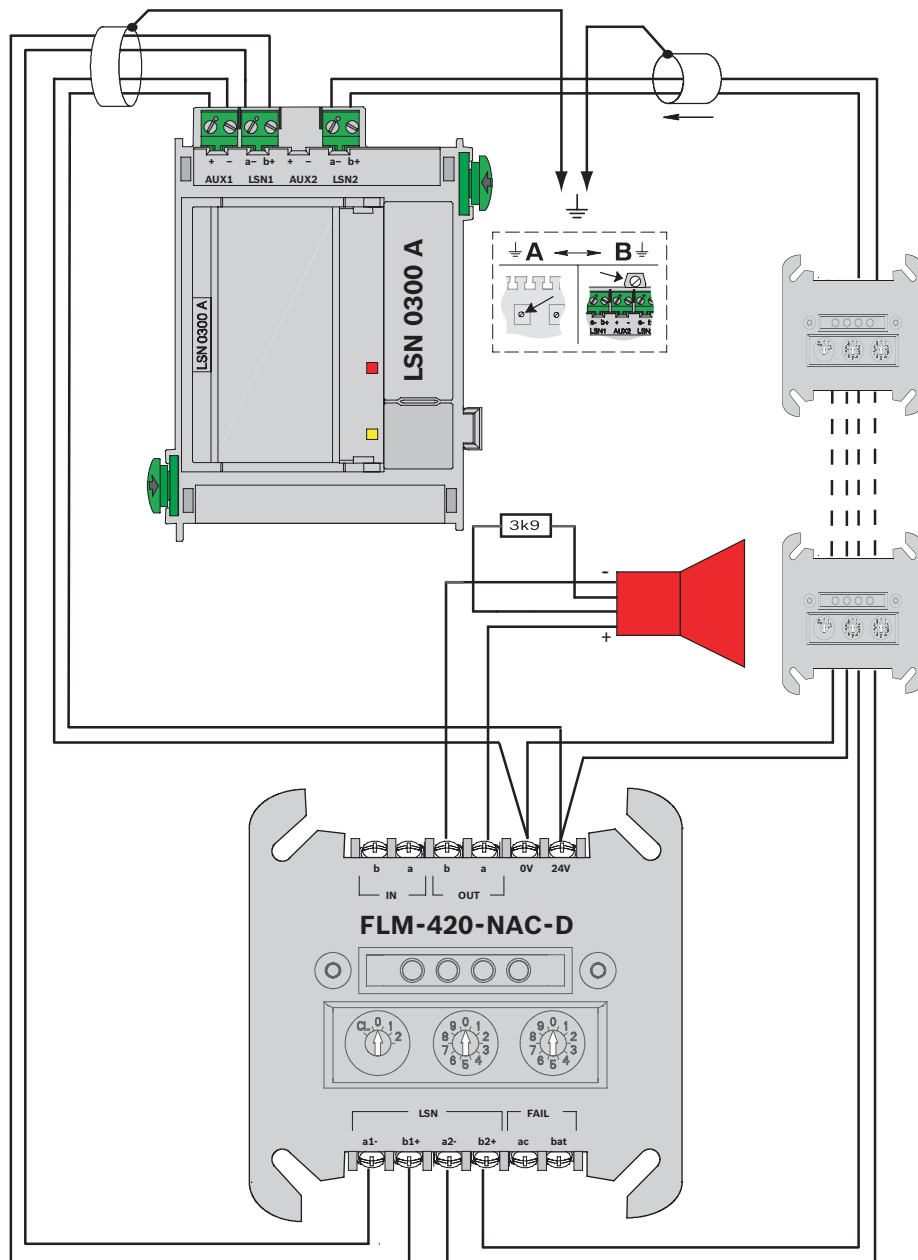


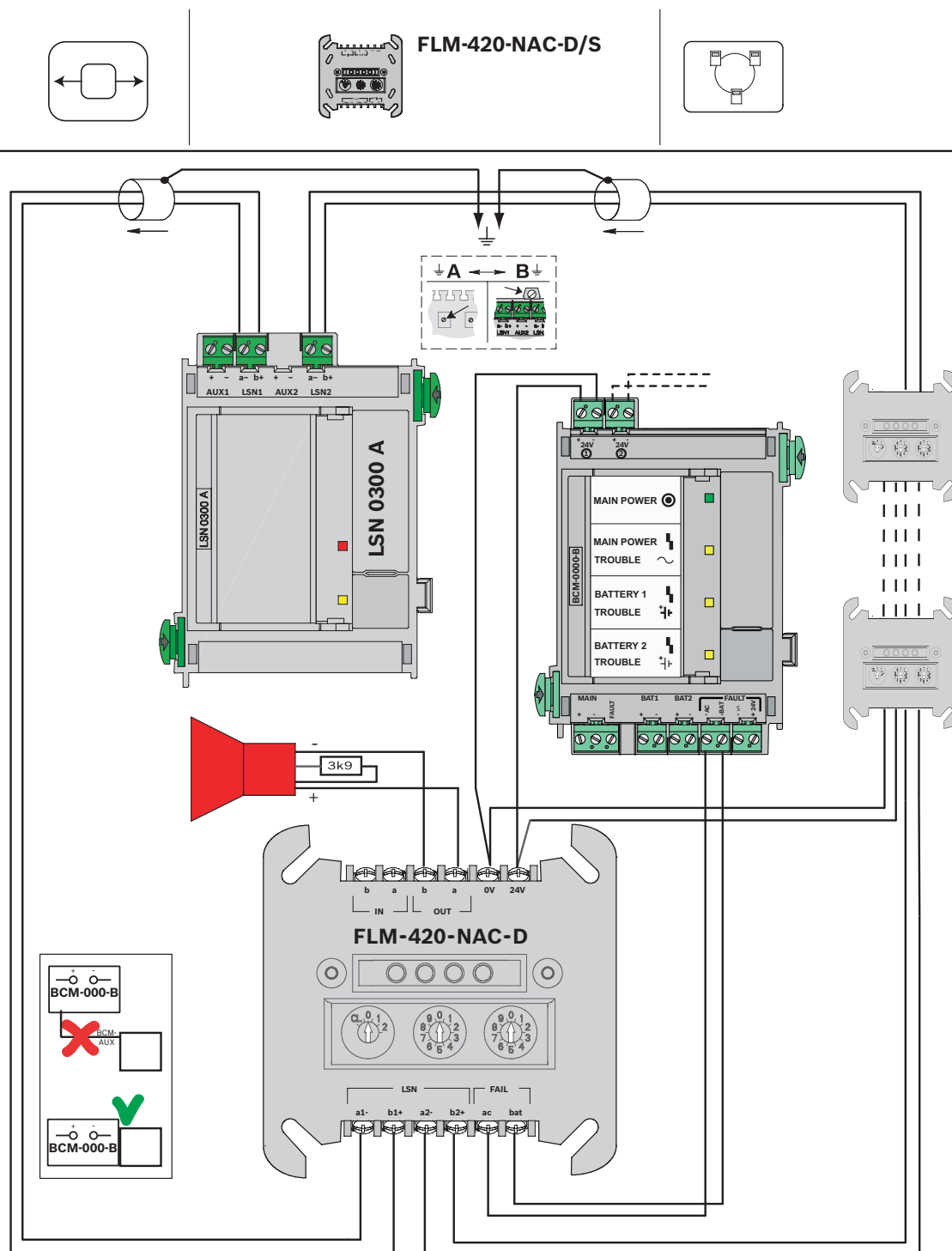
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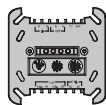
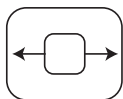


VdS 2489

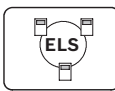


**FLM-420-NAC-D/S****EN 54-2**

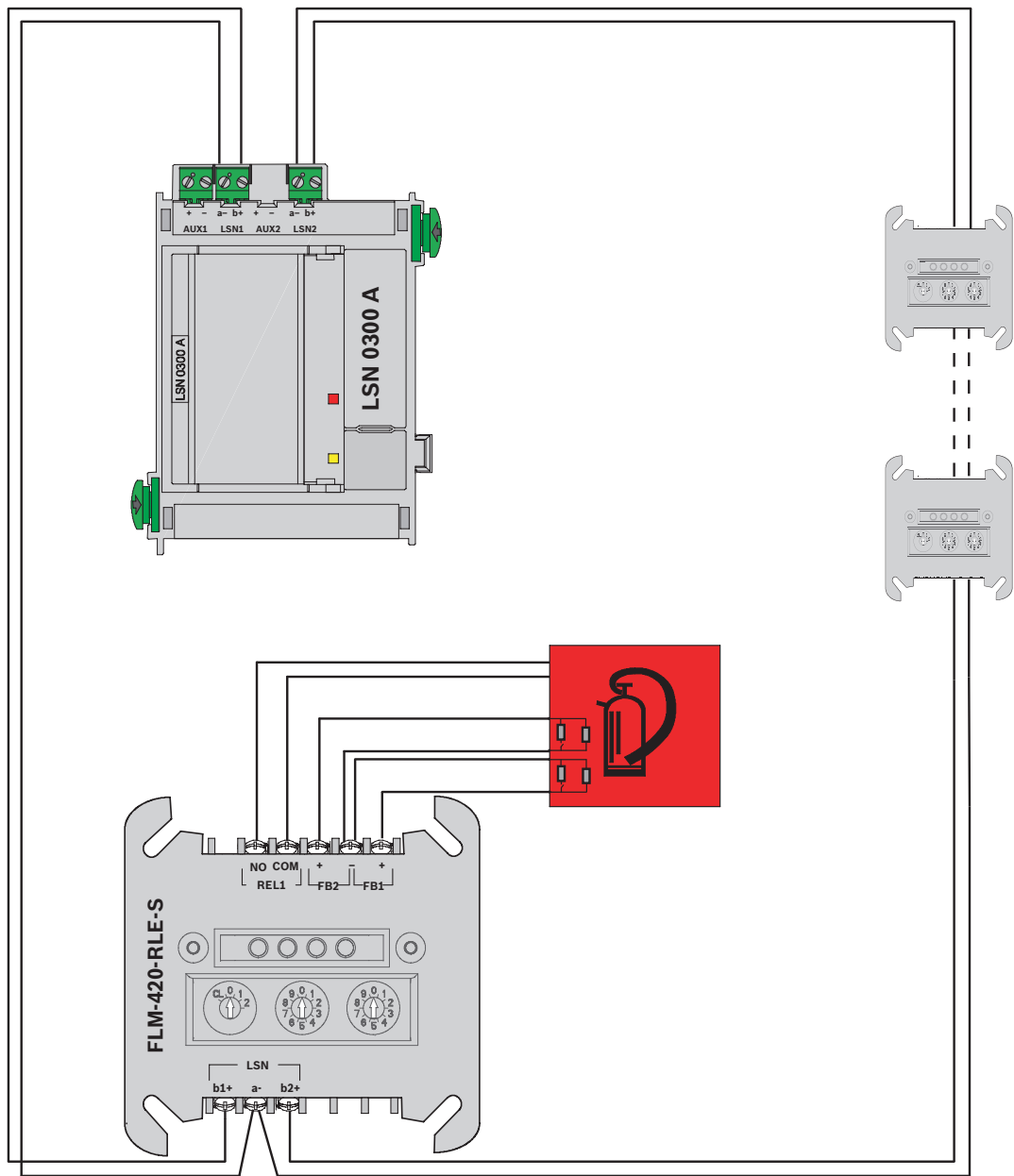


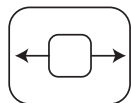
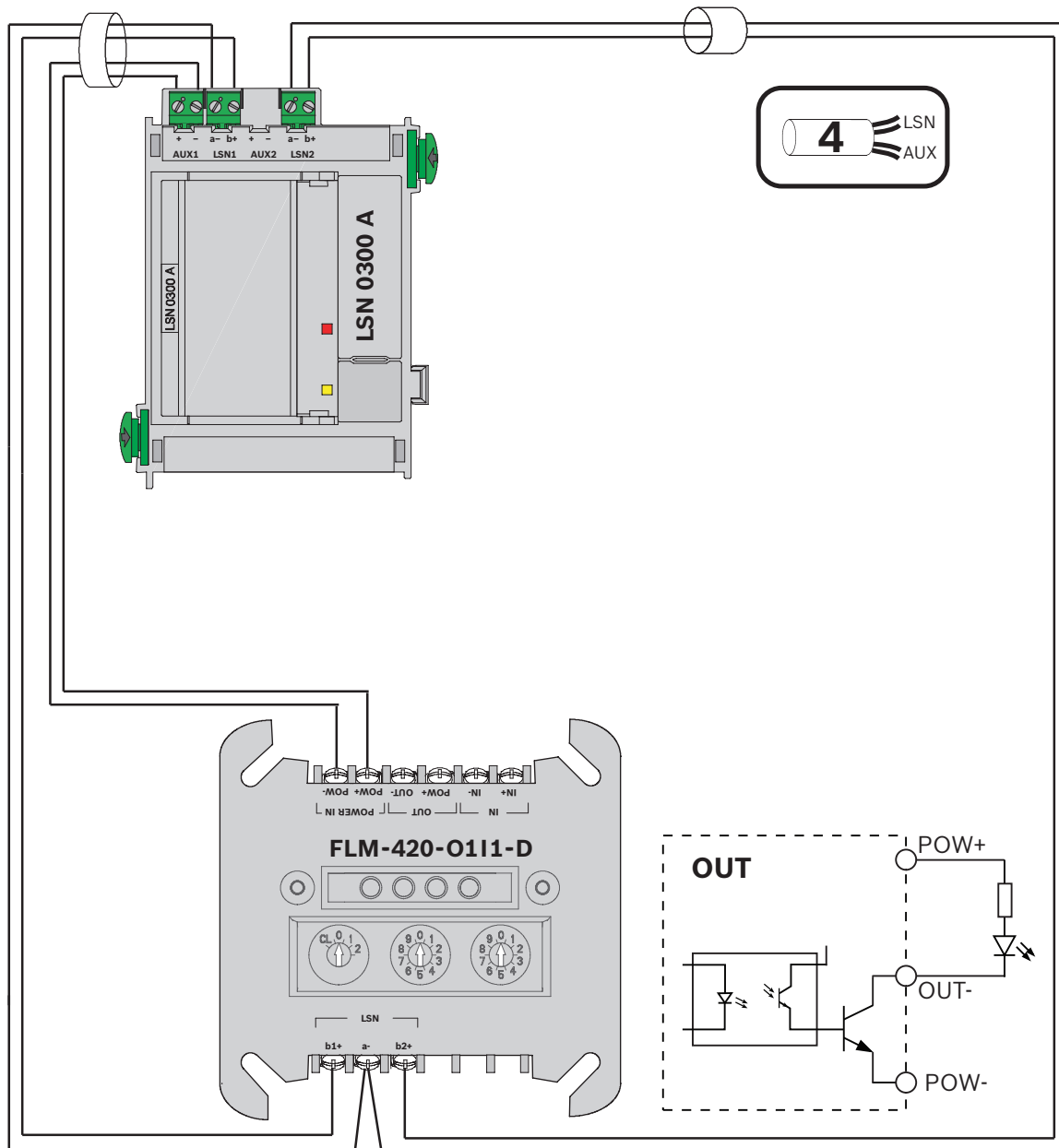
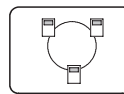


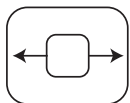
FLM-420-RLE-S



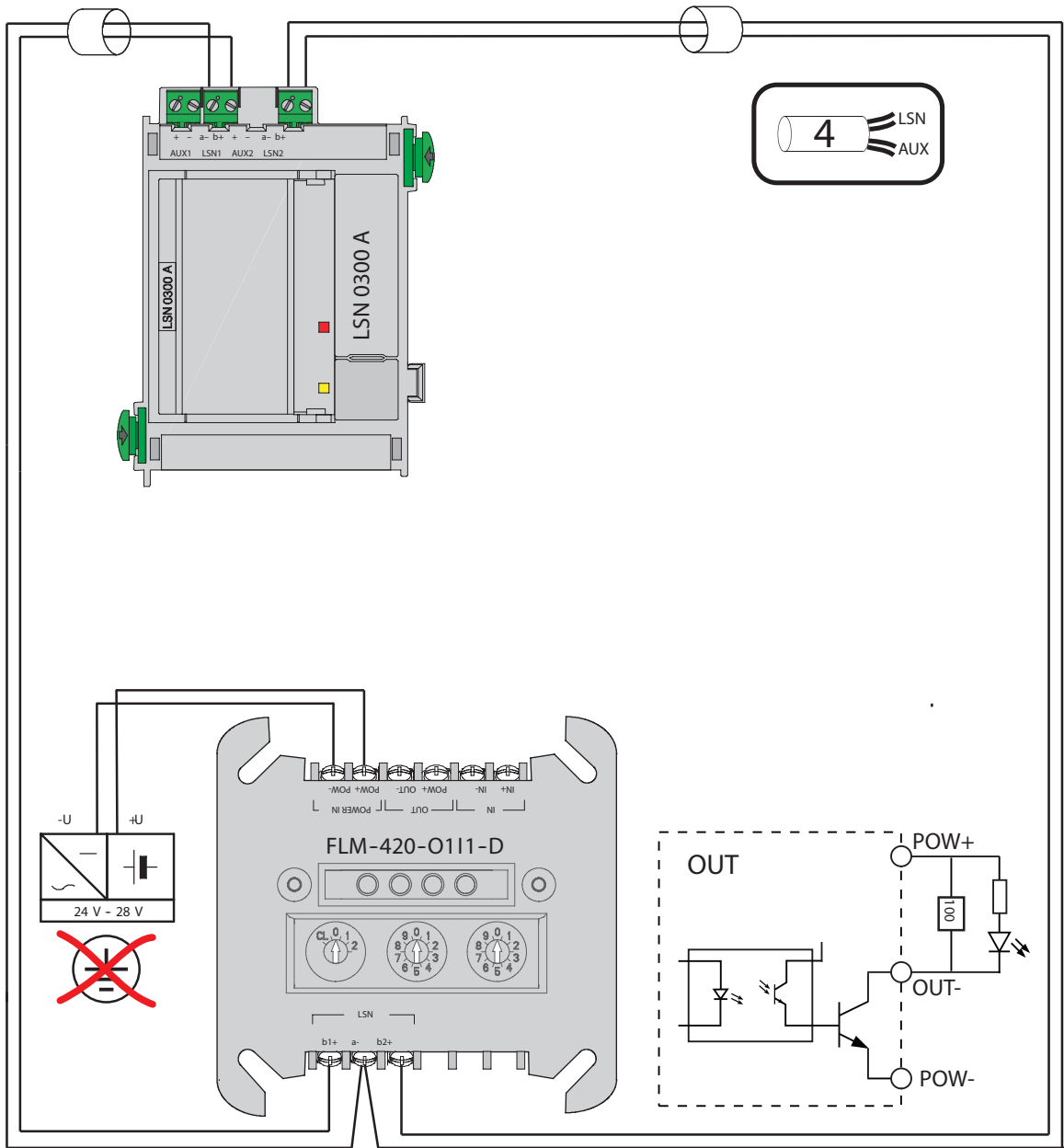
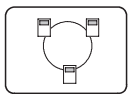
VdS 2489

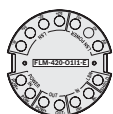
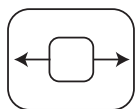



FLM-420-O1I1-D


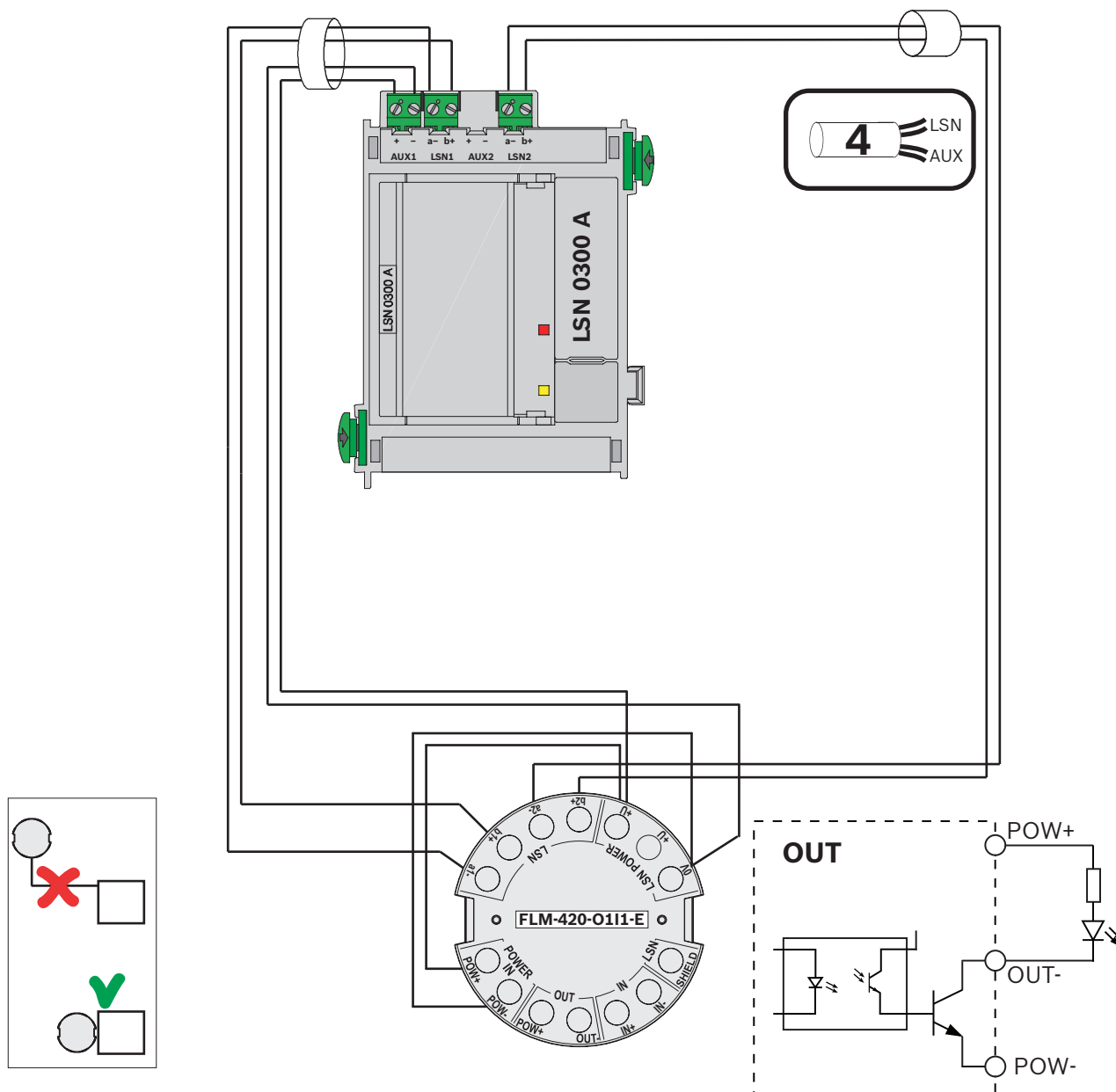
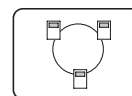


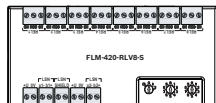
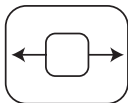
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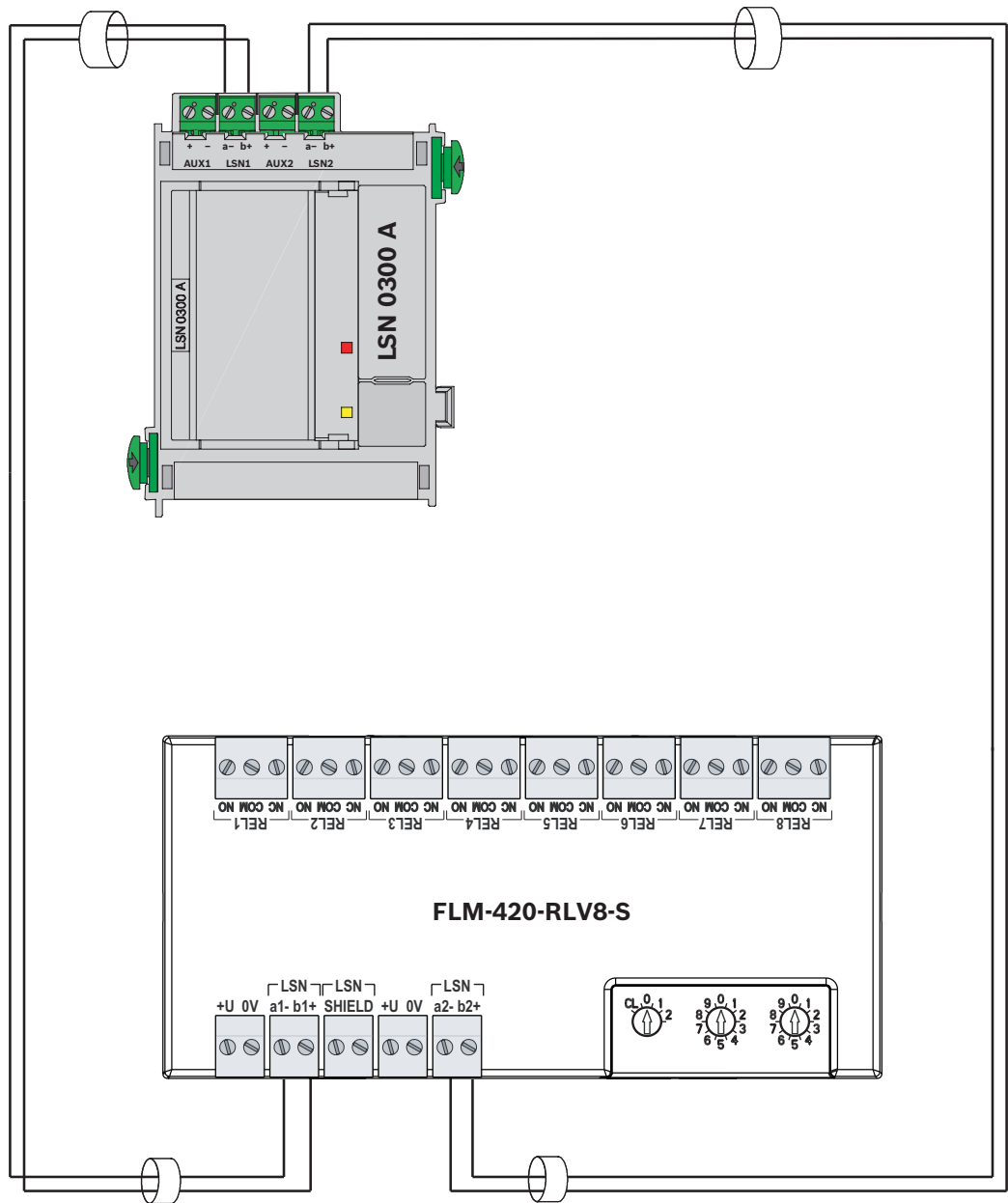
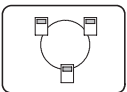


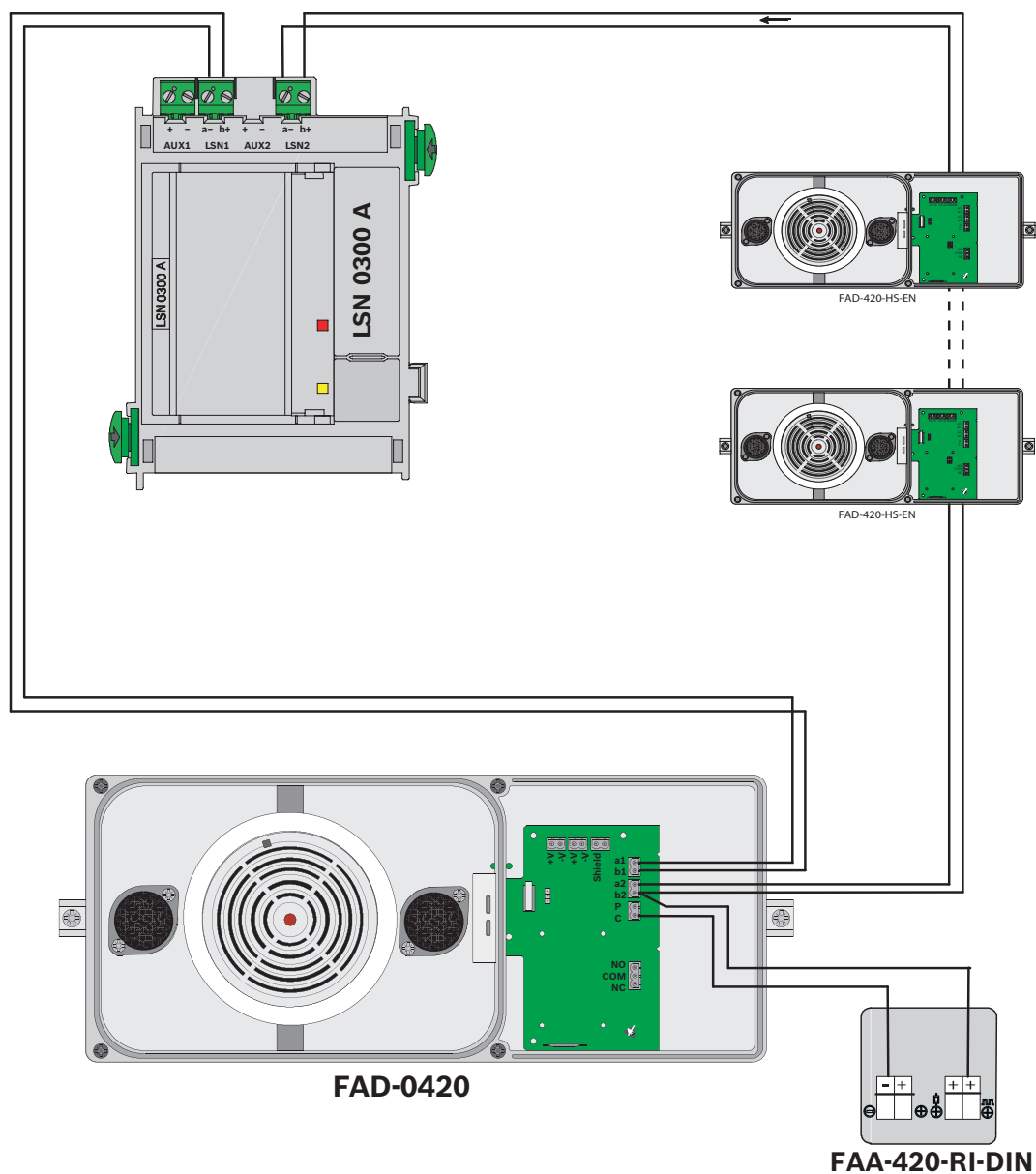
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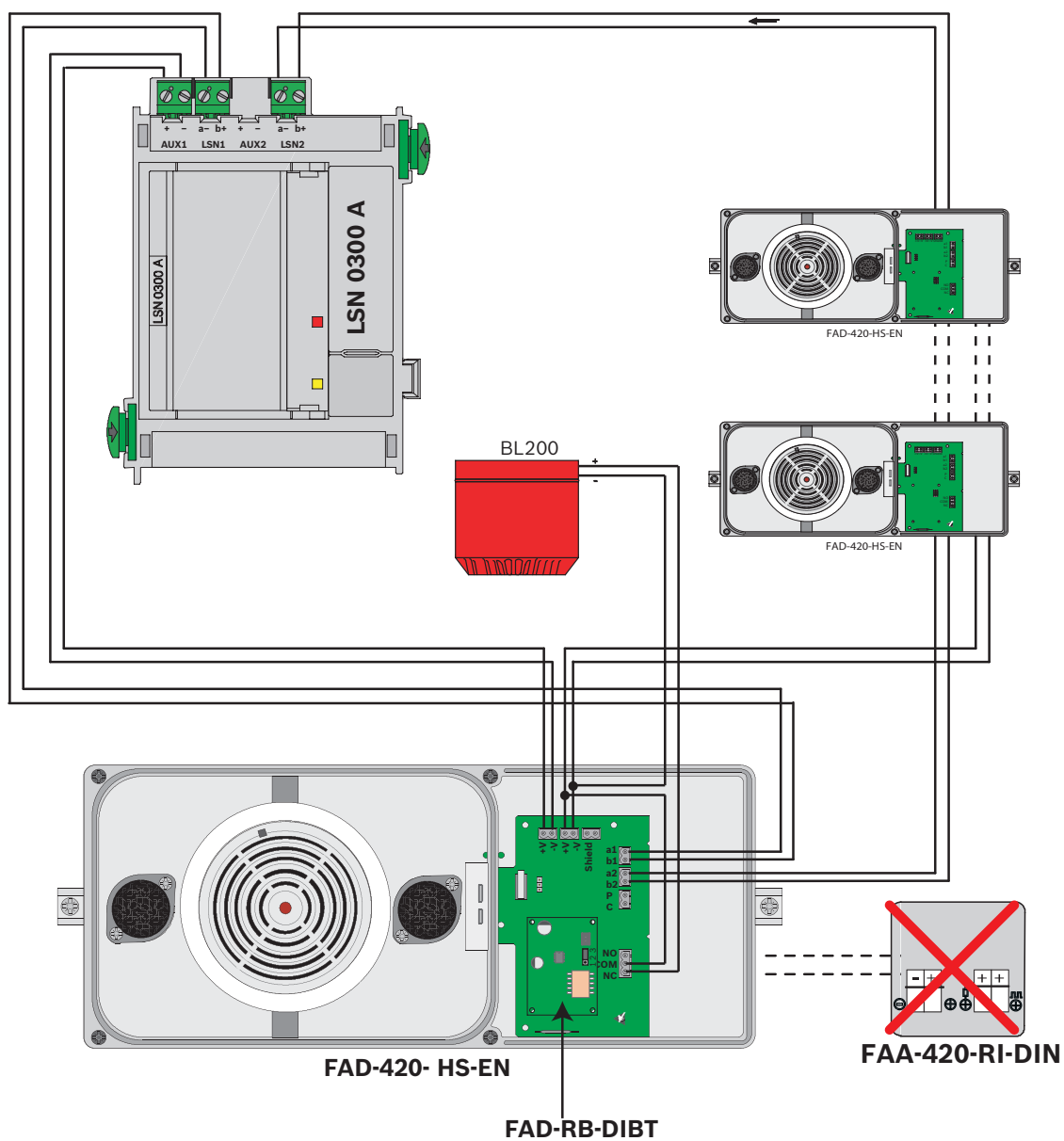


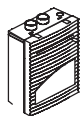


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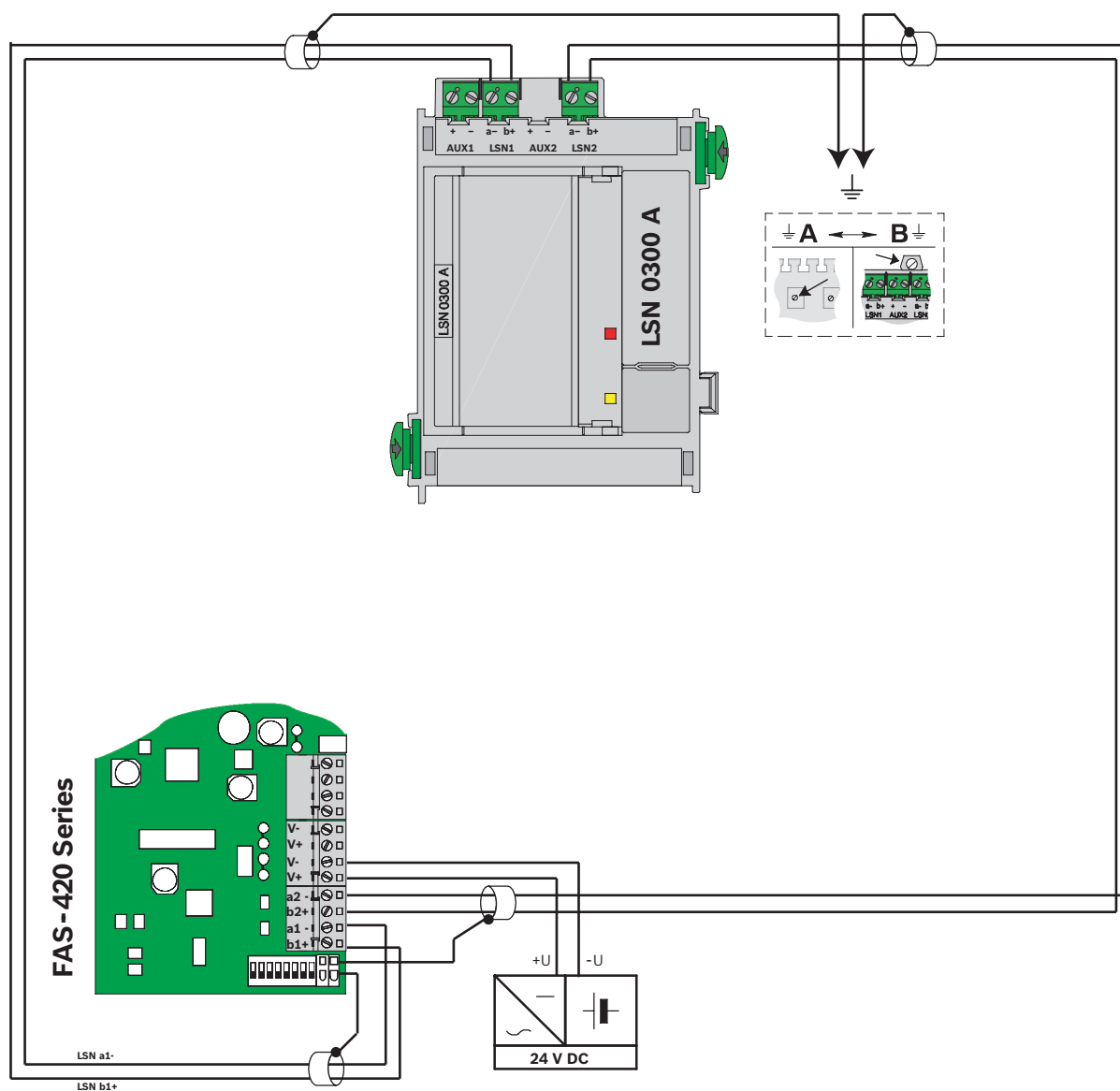


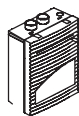
**FAD-0420**

**FAD-420-HS-EN**

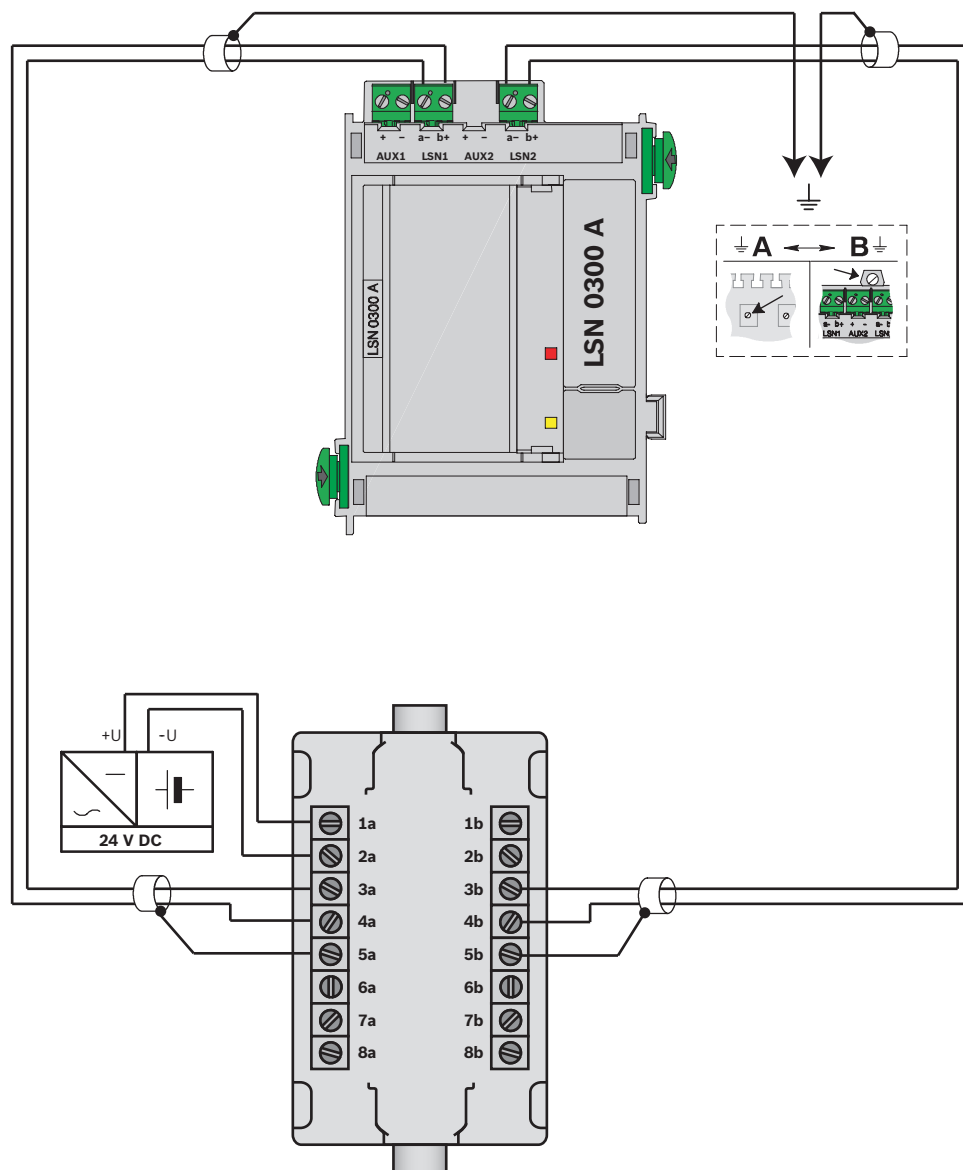


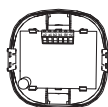
FAS-420 Series



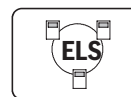


FAS-420-TM Series

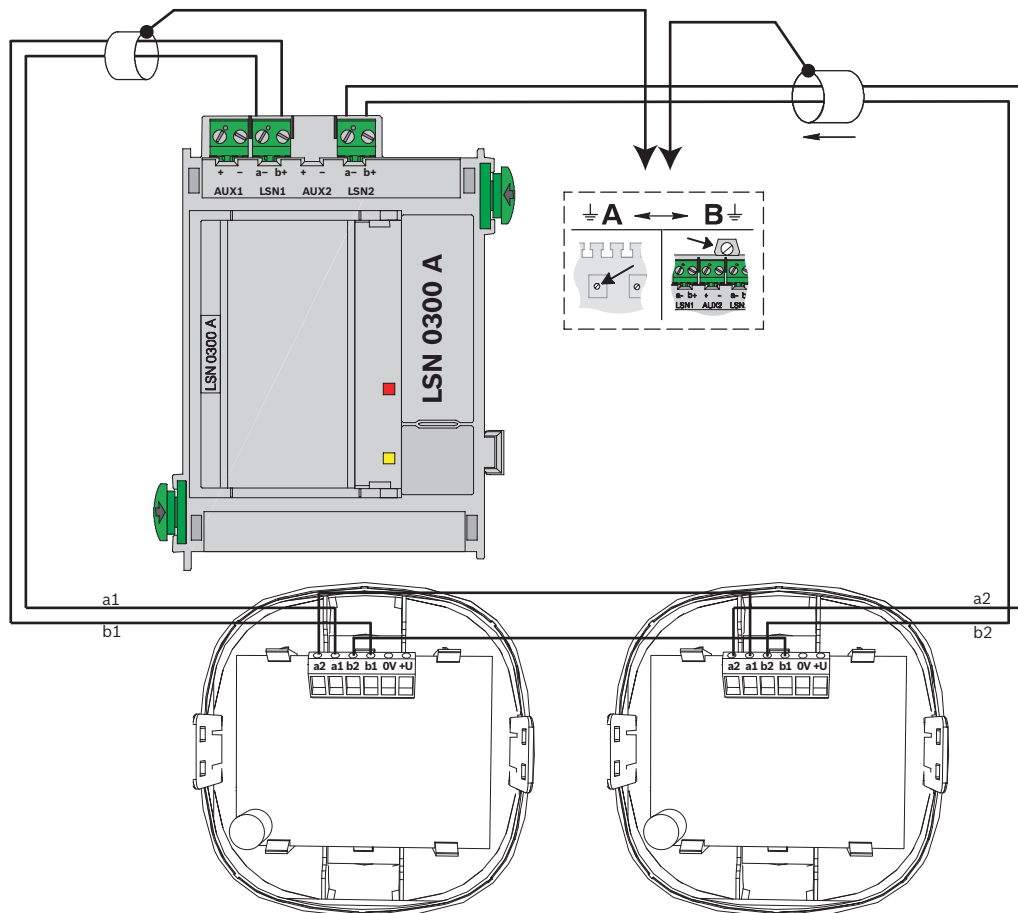




FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A



VdS 2489

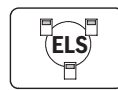


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

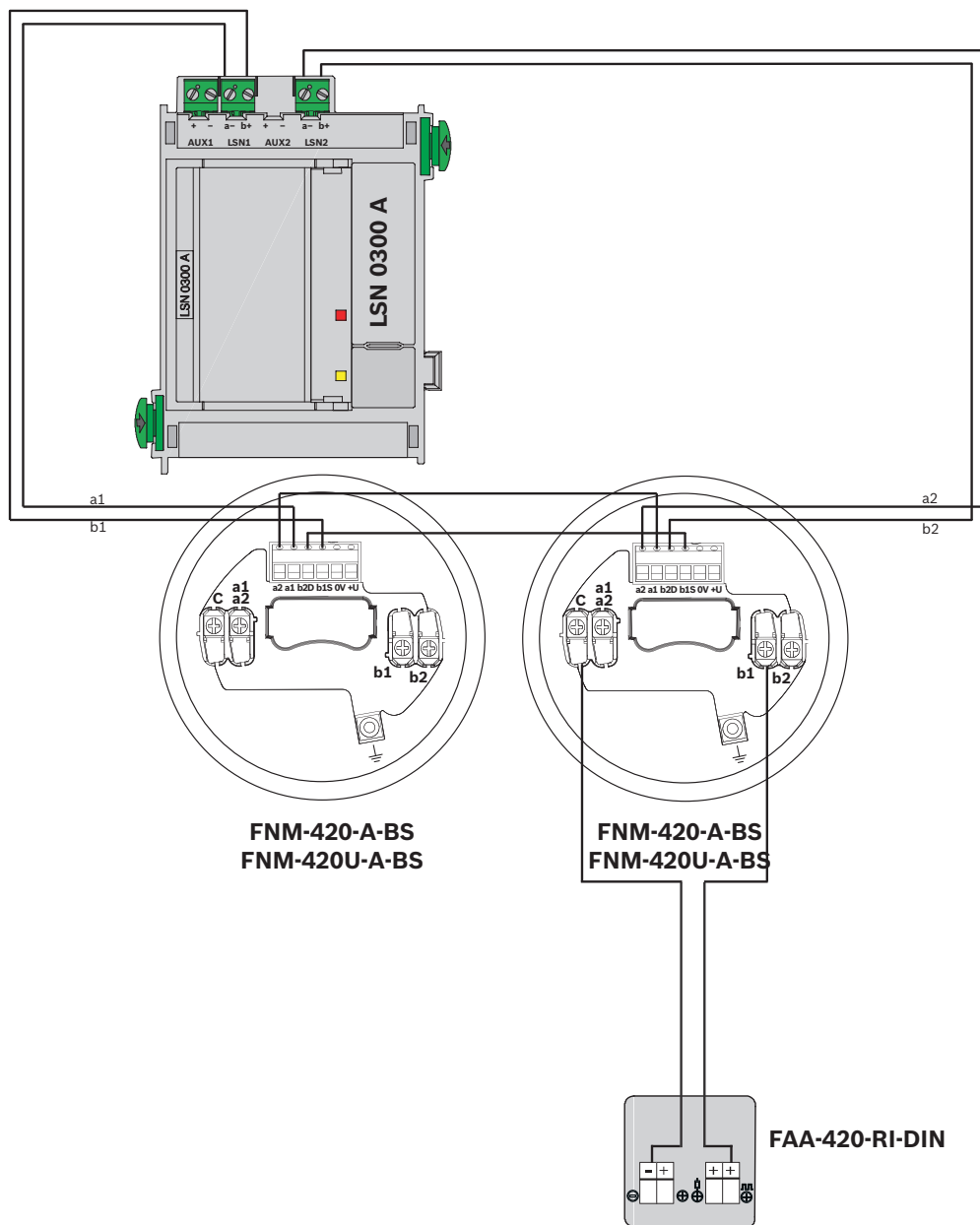
FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



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



VdS 2489

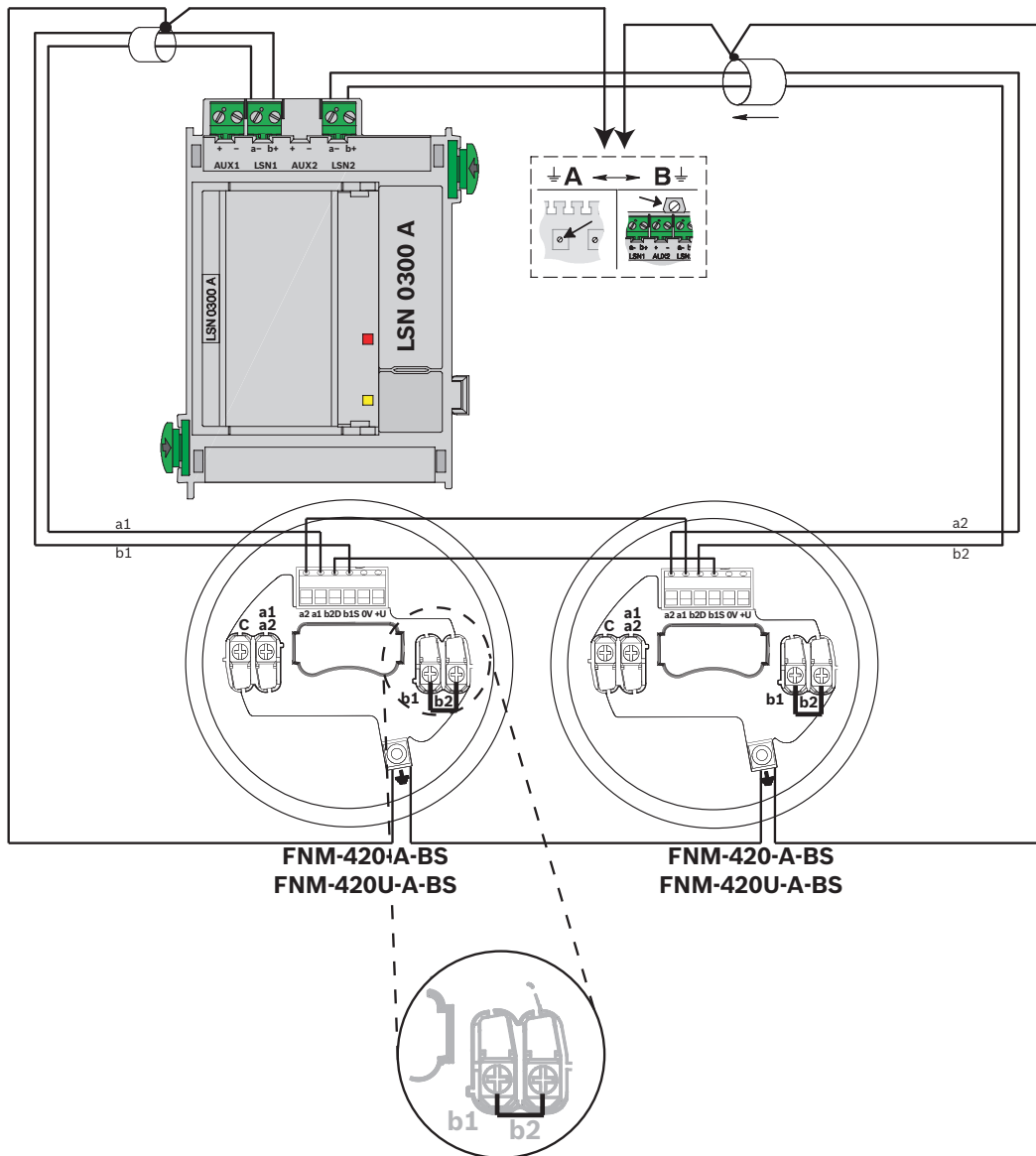


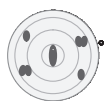


FNM-420-A-BS
FNM-420U-A-BS

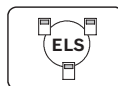


VdS 2489

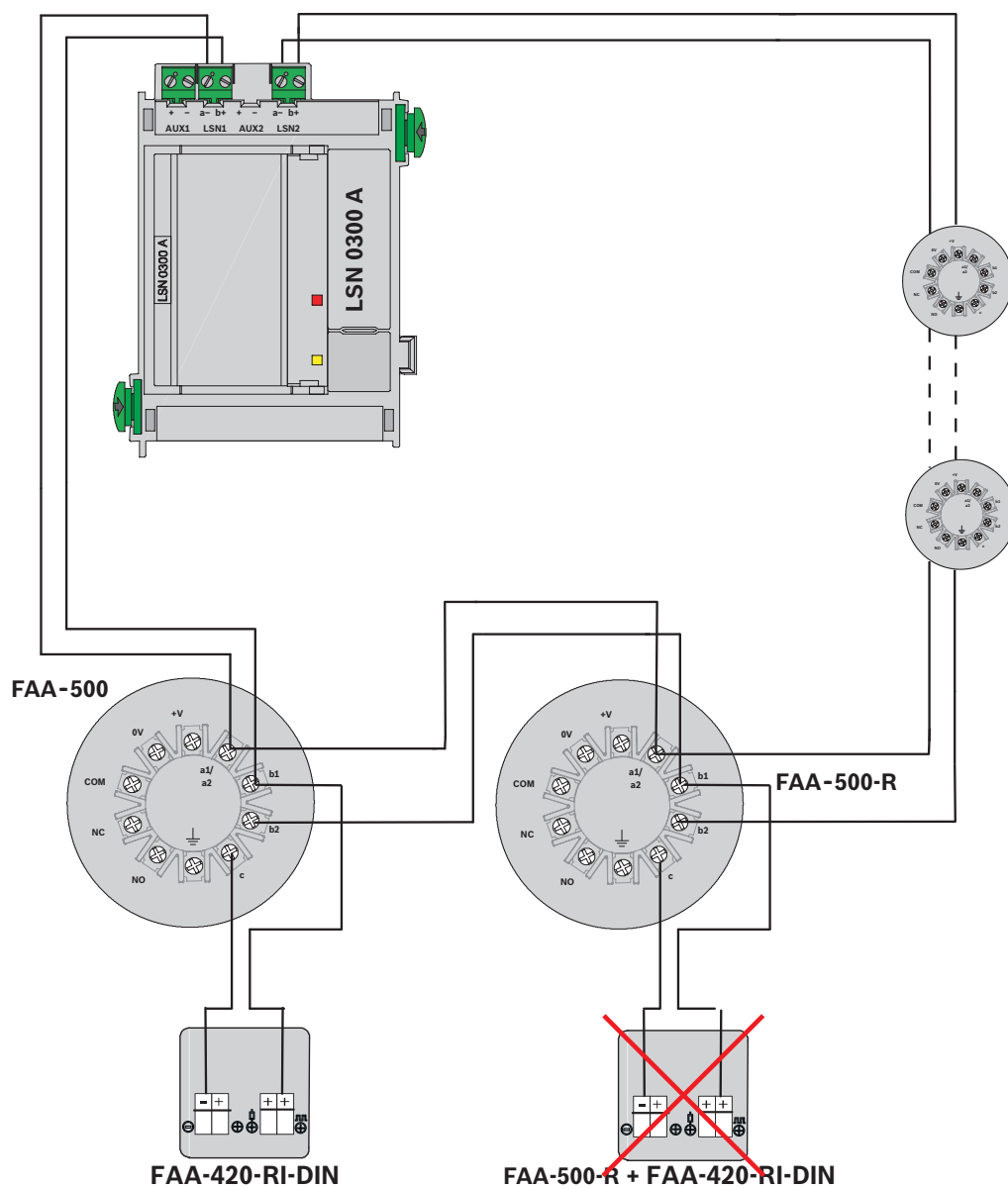




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

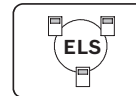


VdS 2489

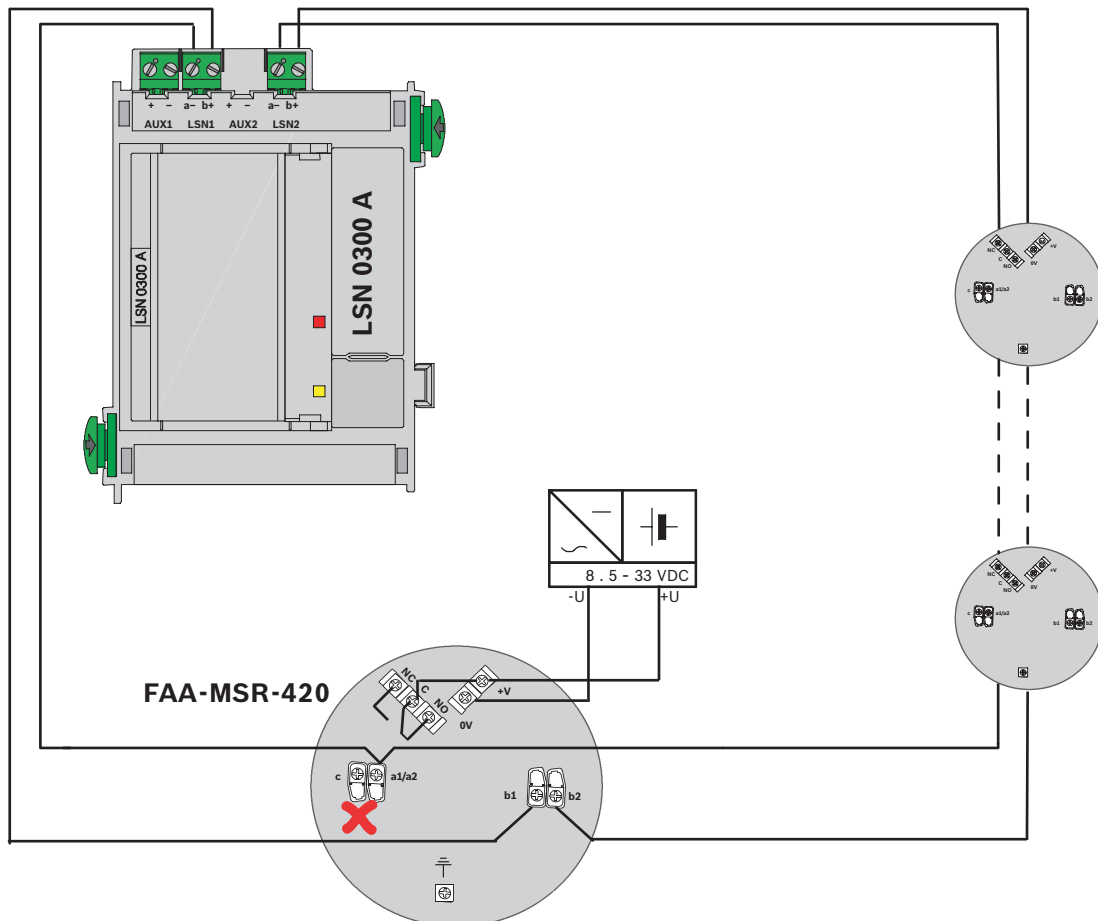




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

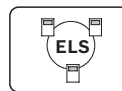


VdS 2489

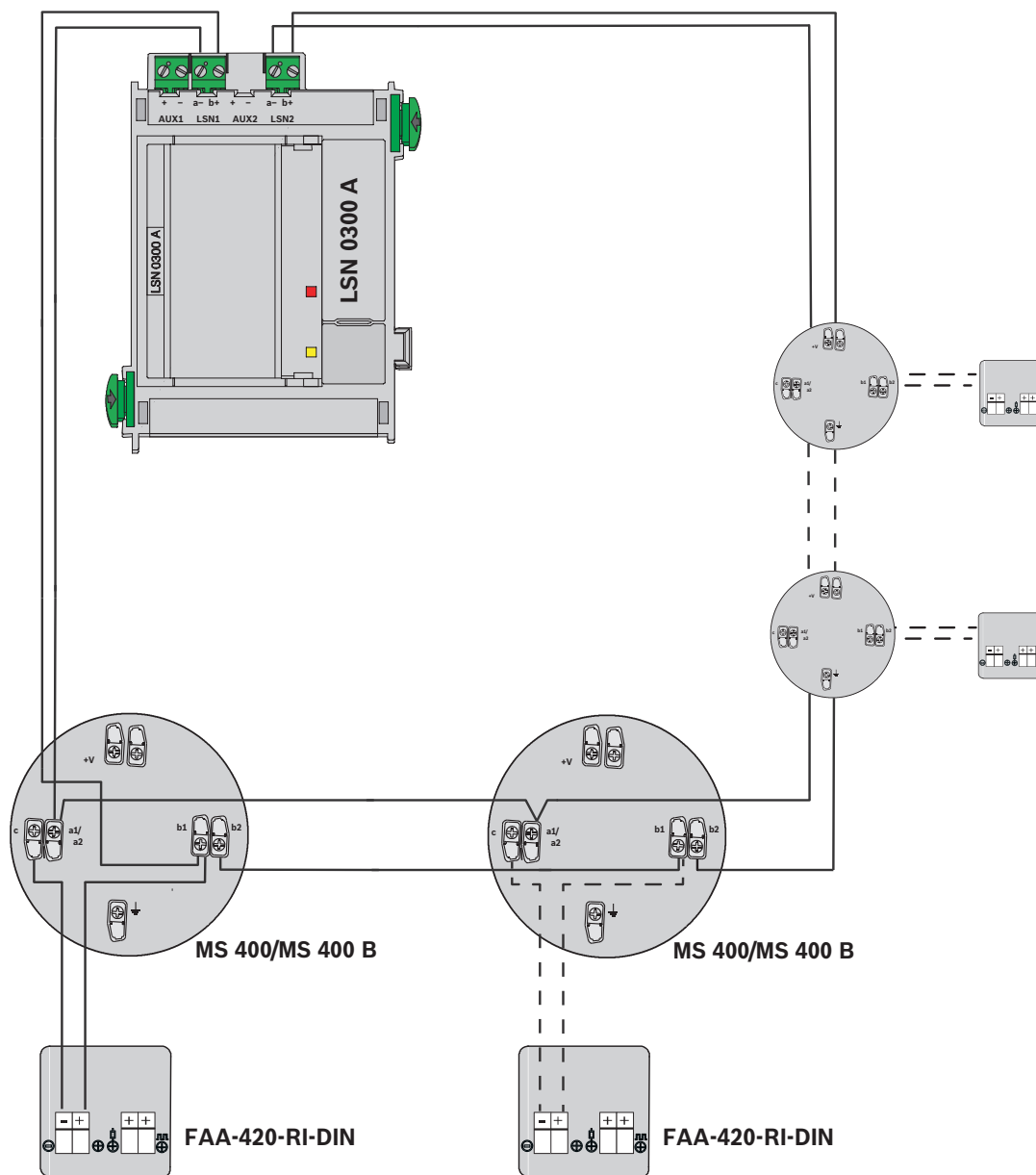


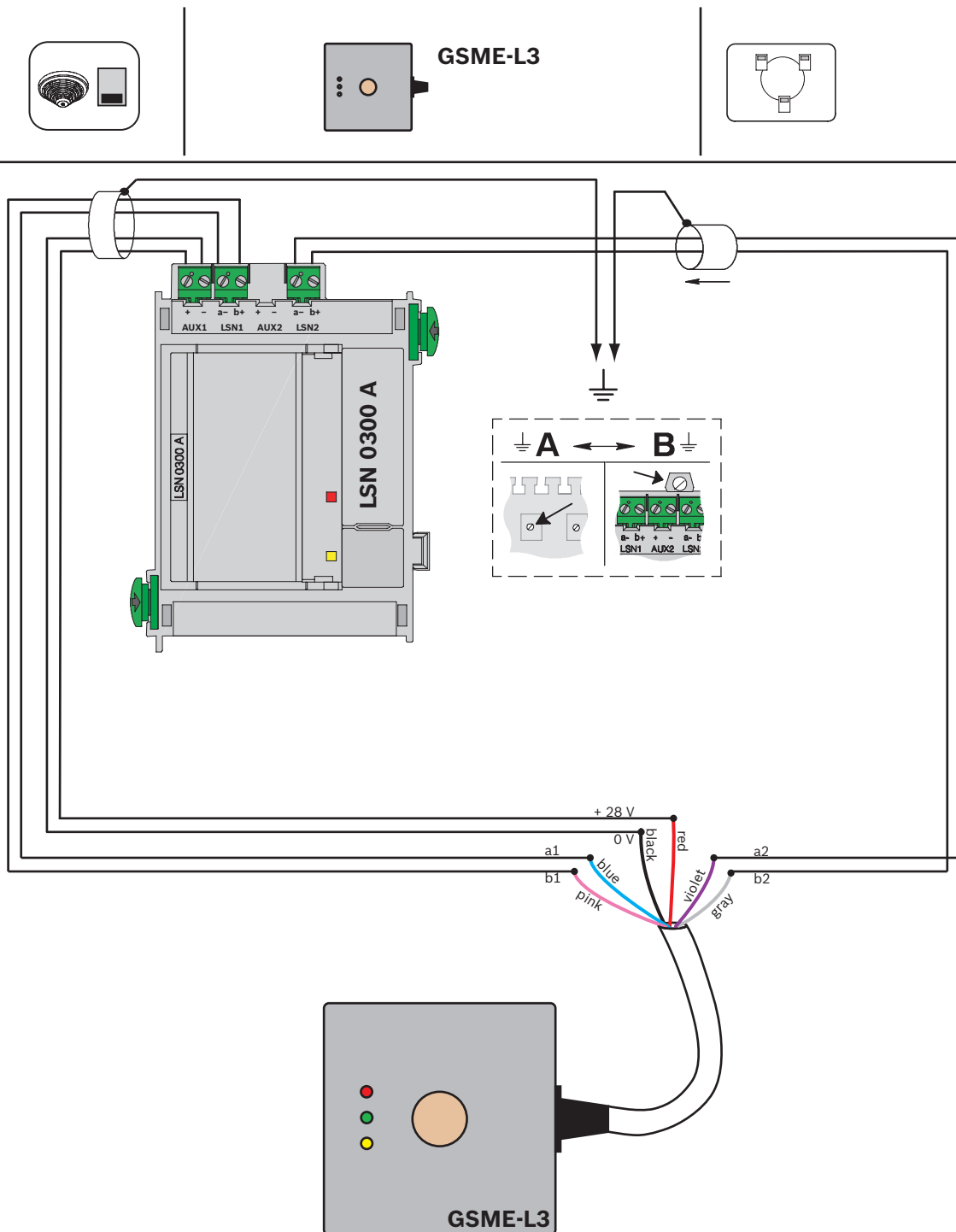


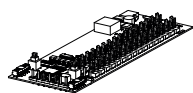
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



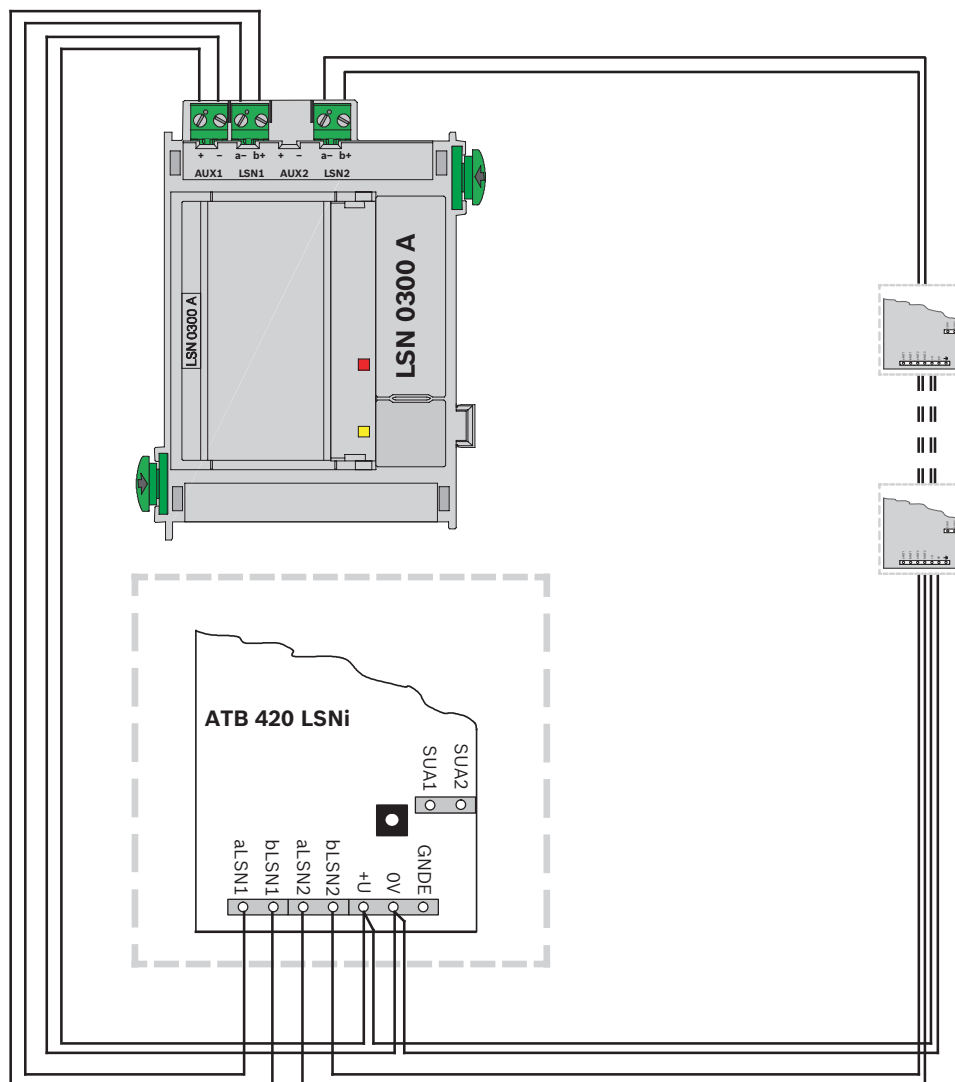
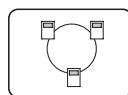
VdS 2489





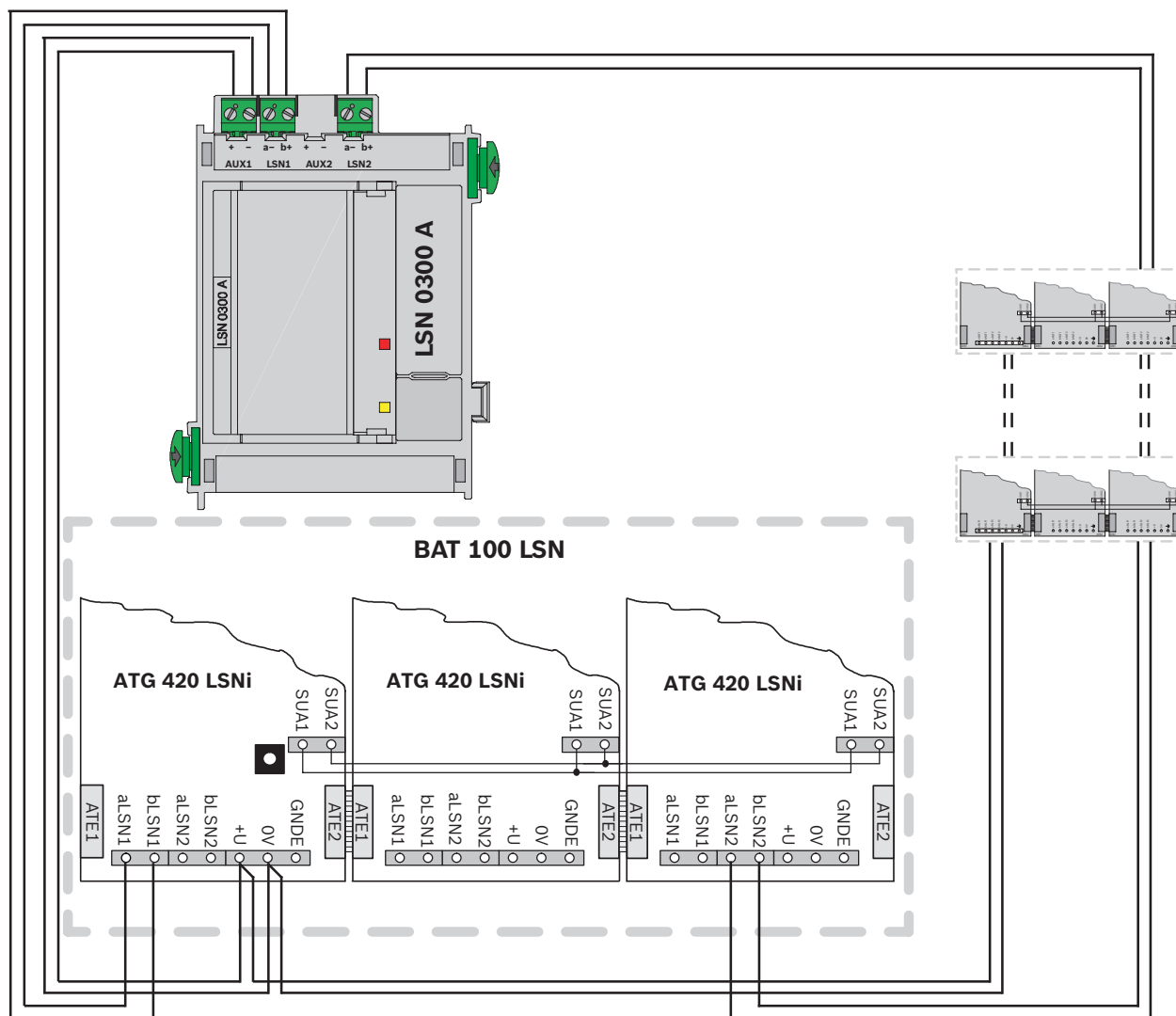
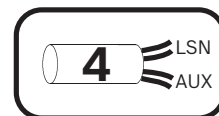
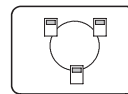


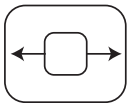
ATB 420 LSNi



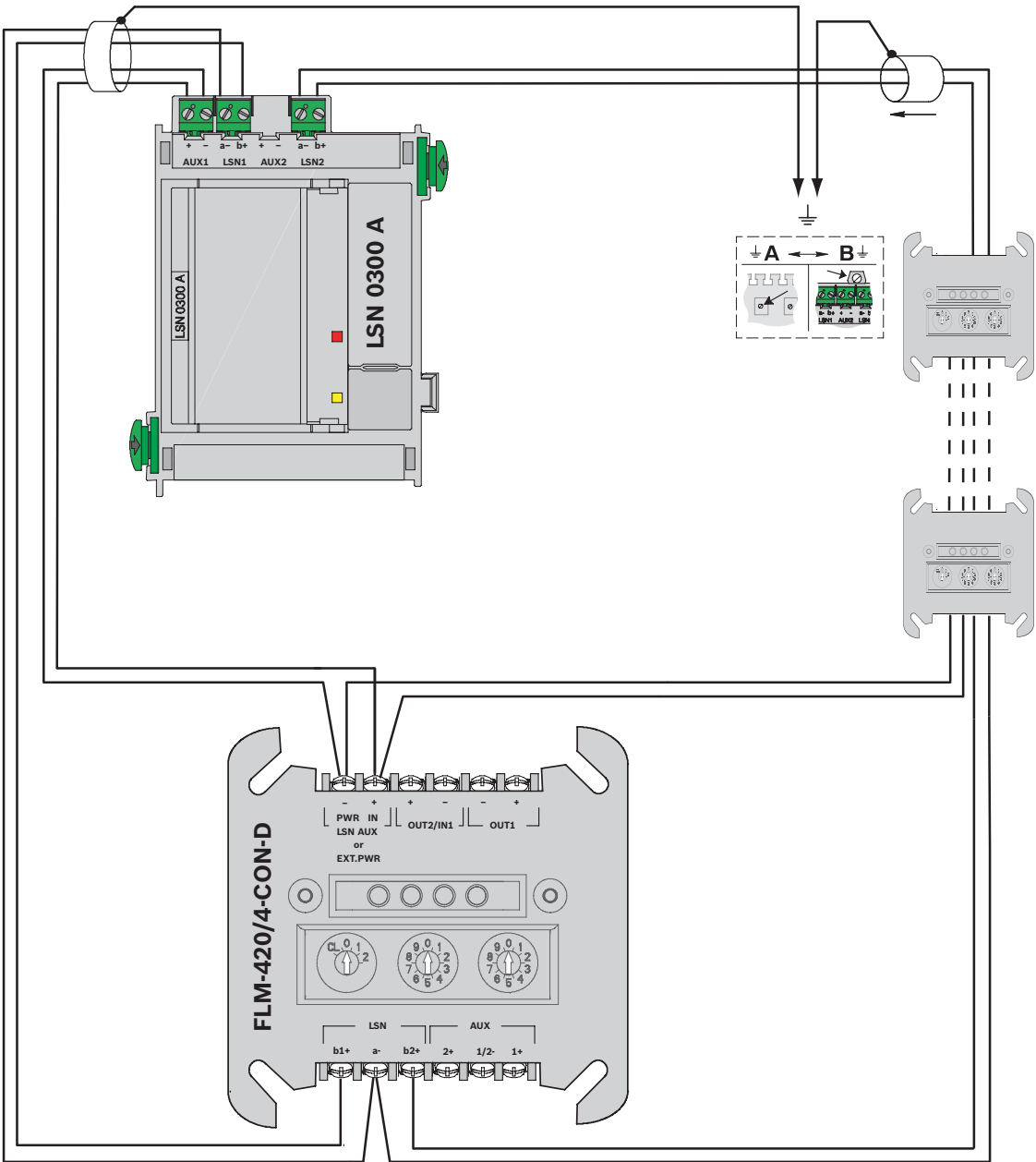
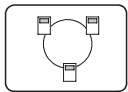


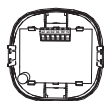
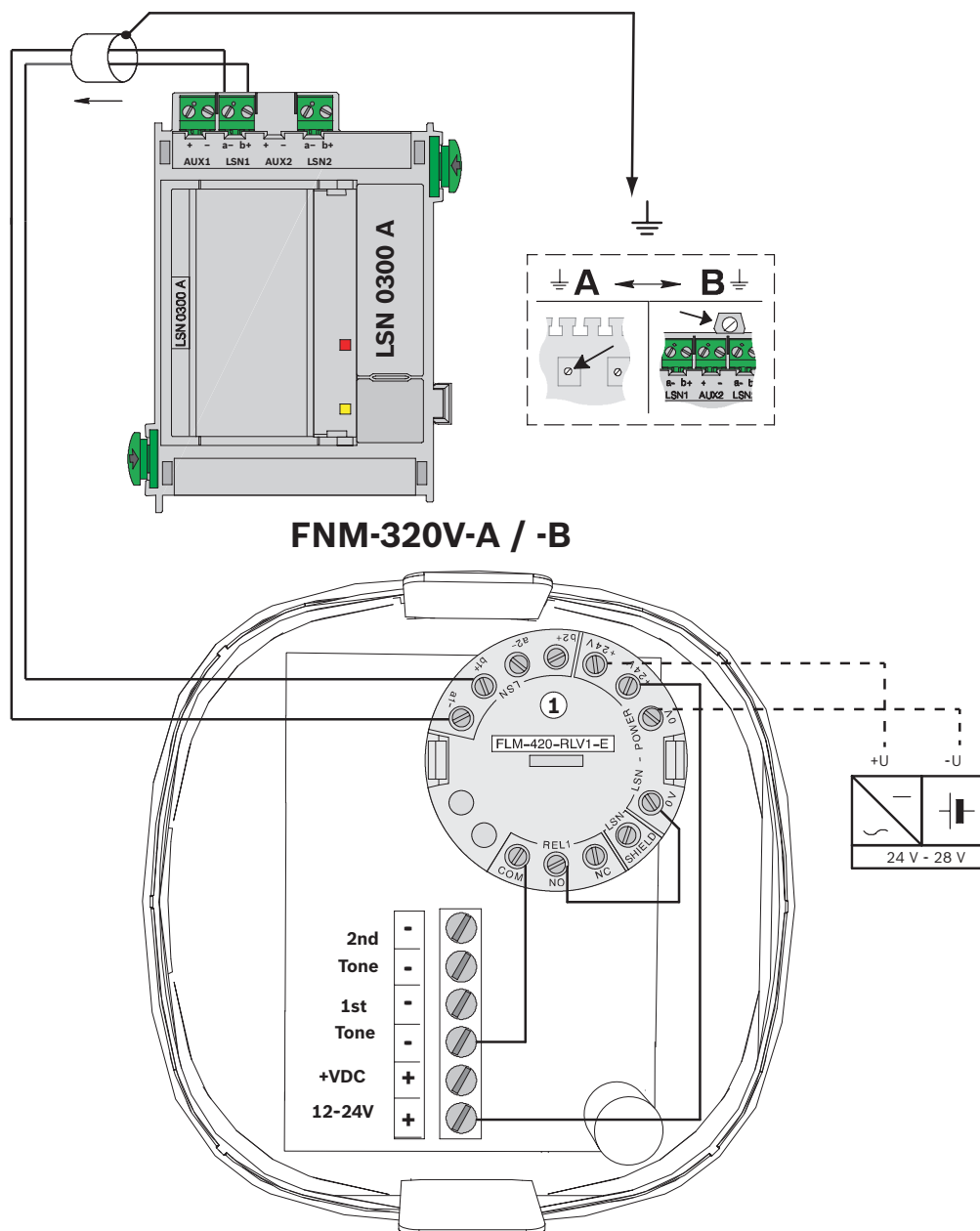
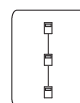
BAT 100 LSN
ATG 420 LSNi





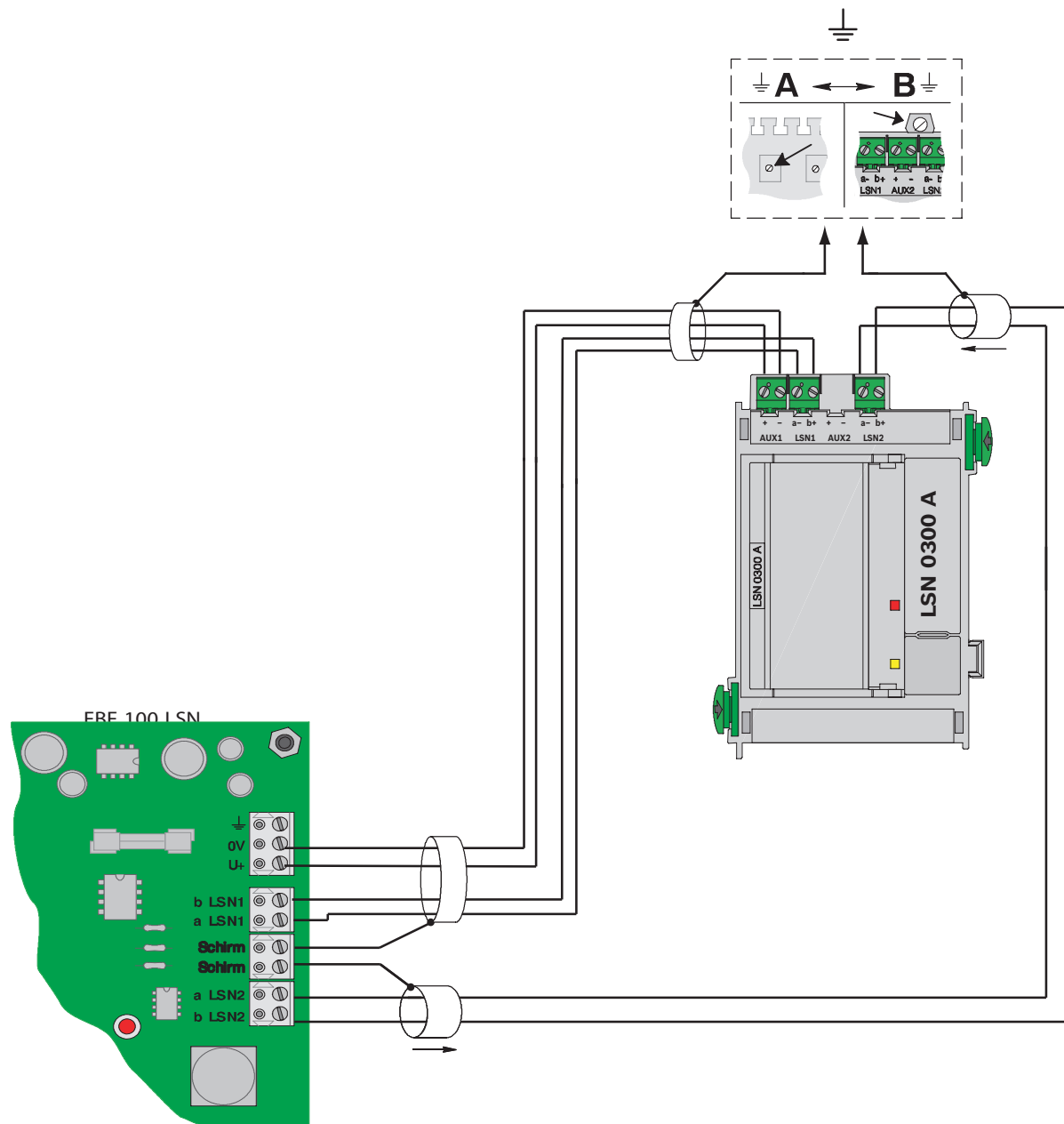
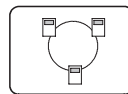
FLM-420/
4-CON-D

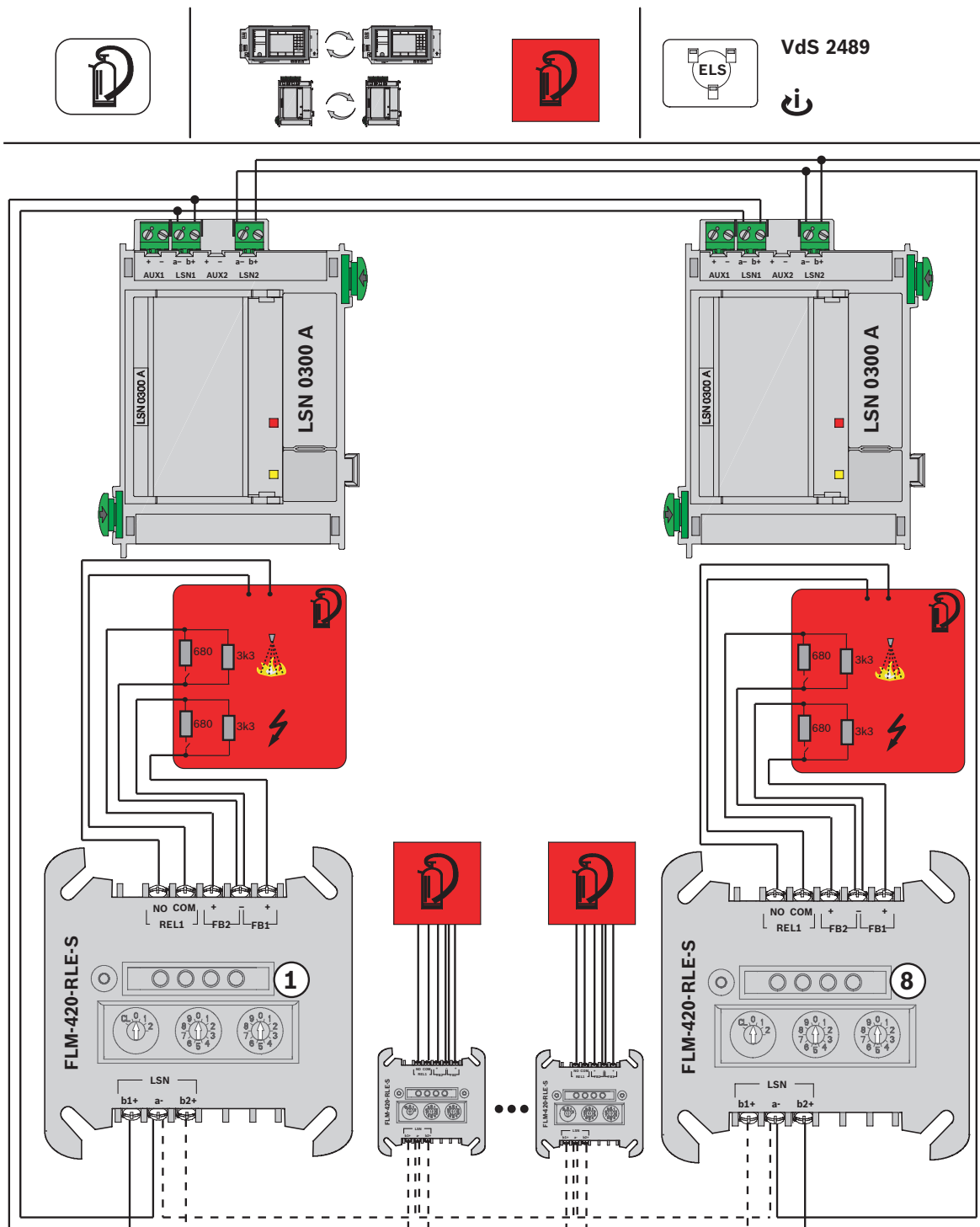


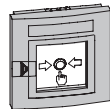
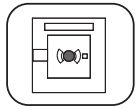
**FNM-320V-A / -B**



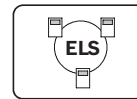
FBF 100 LSN



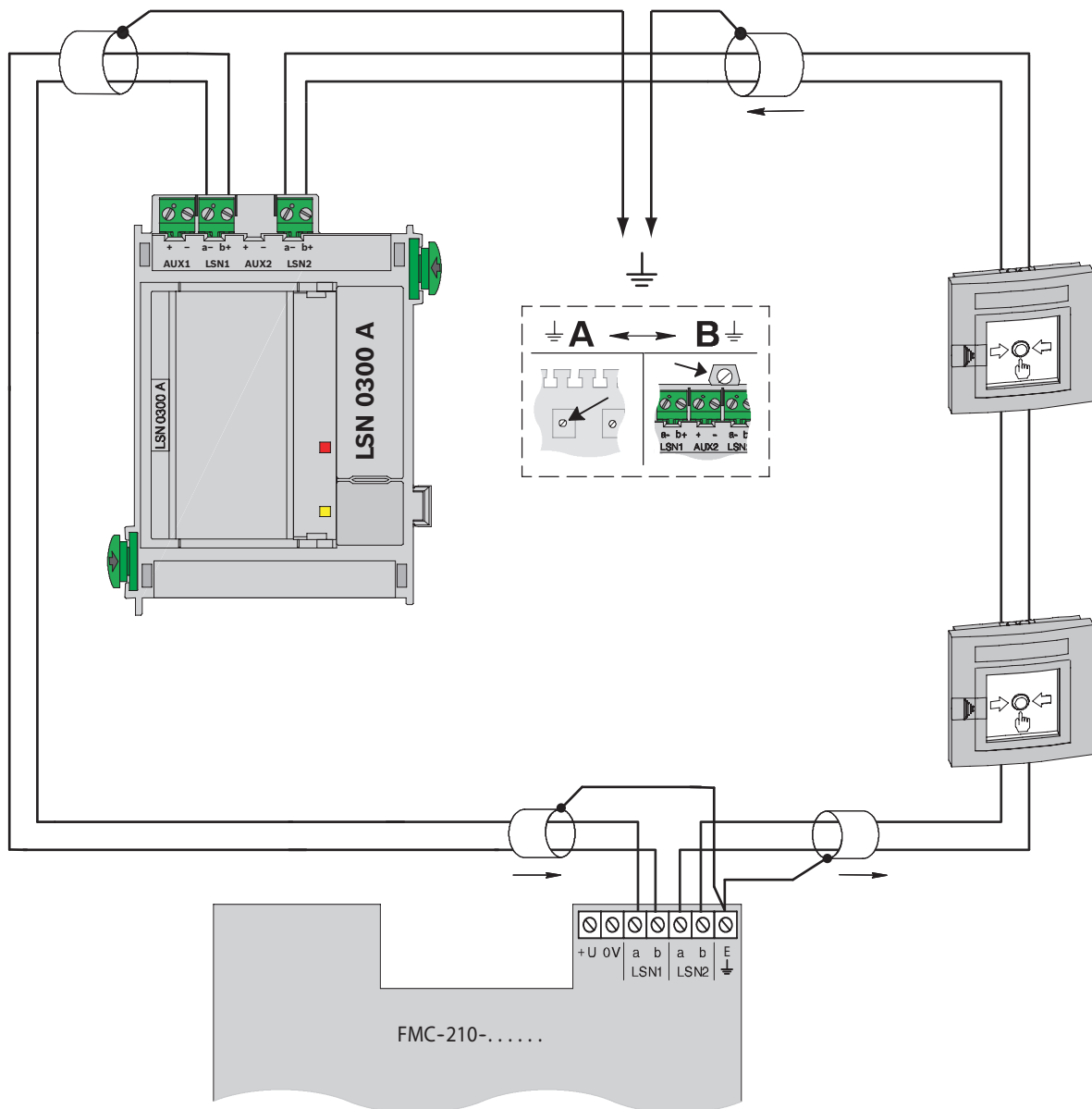


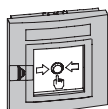
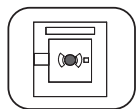
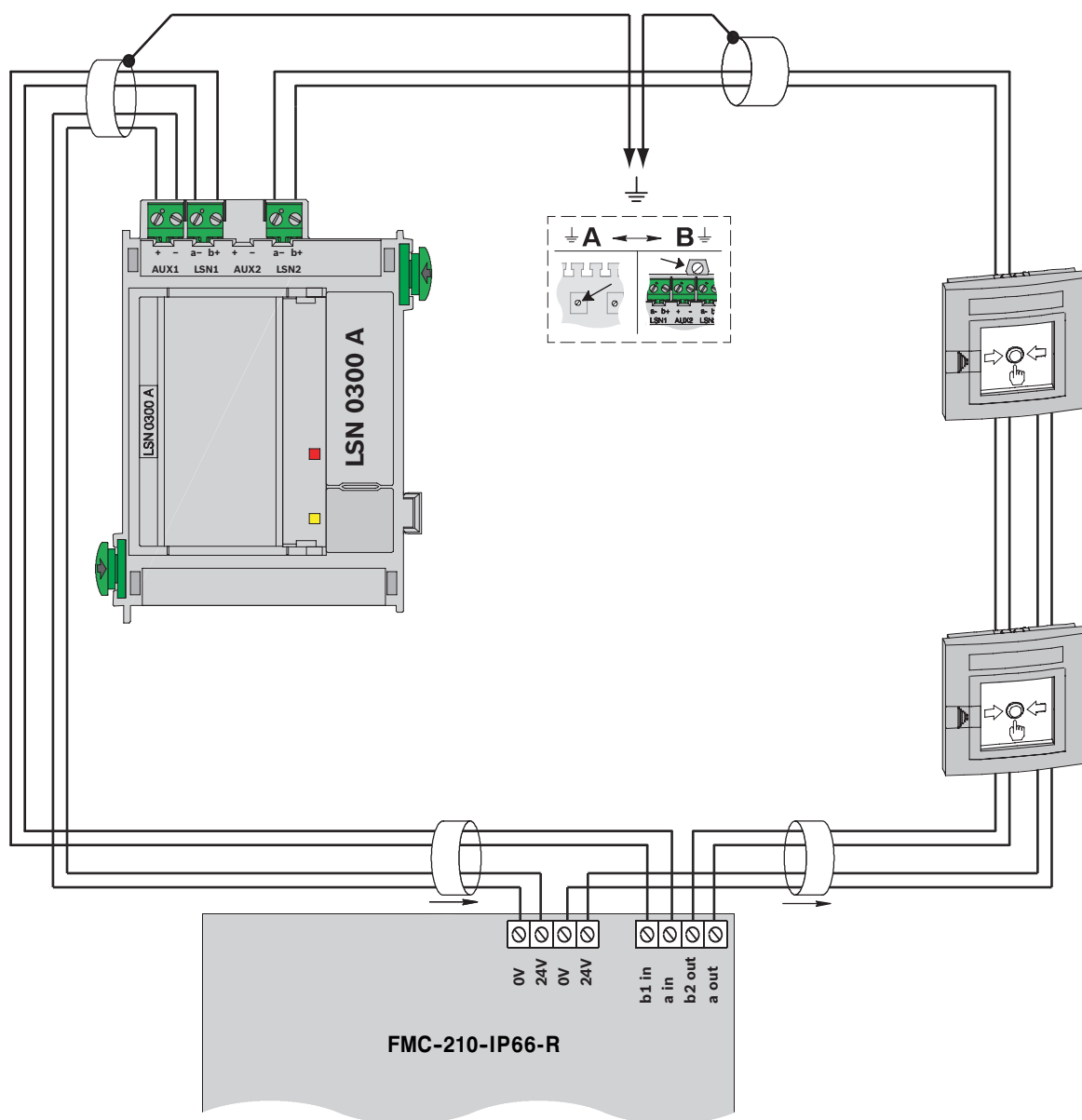
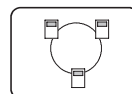


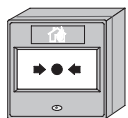
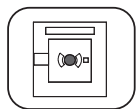
FMC-210-...



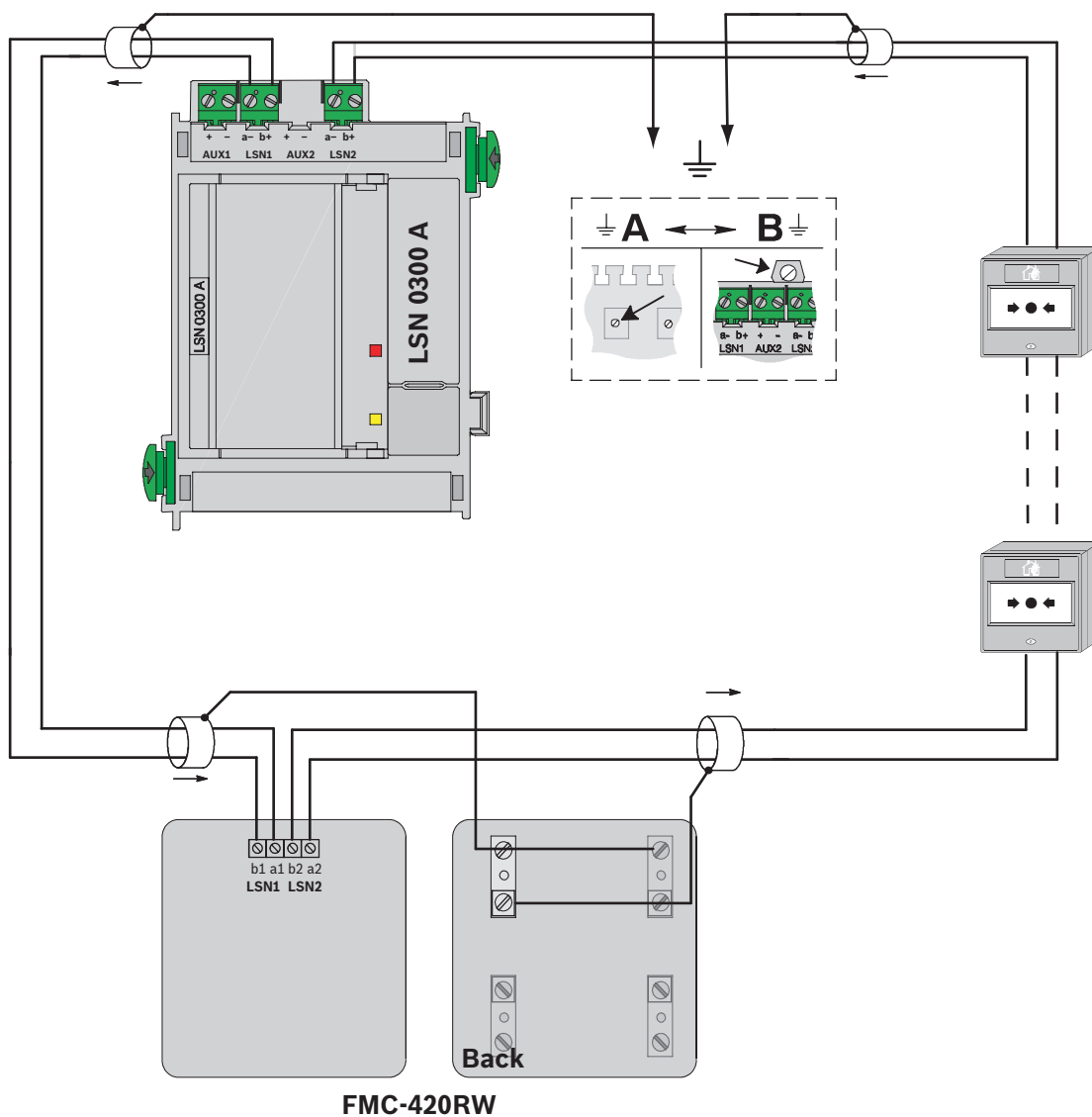
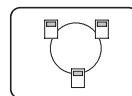
VdS 2489

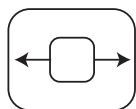
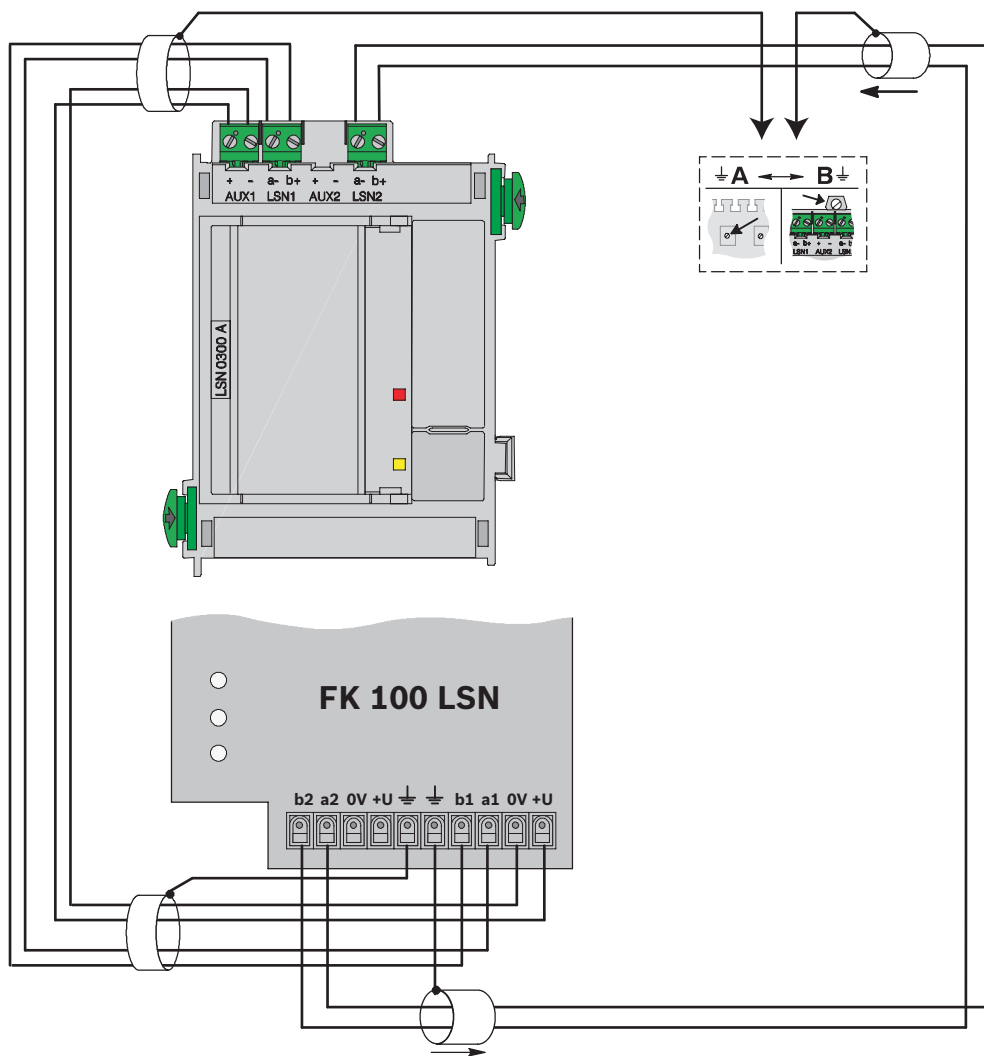
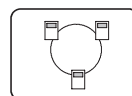



FMC-210-IP66-R


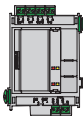
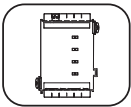


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD

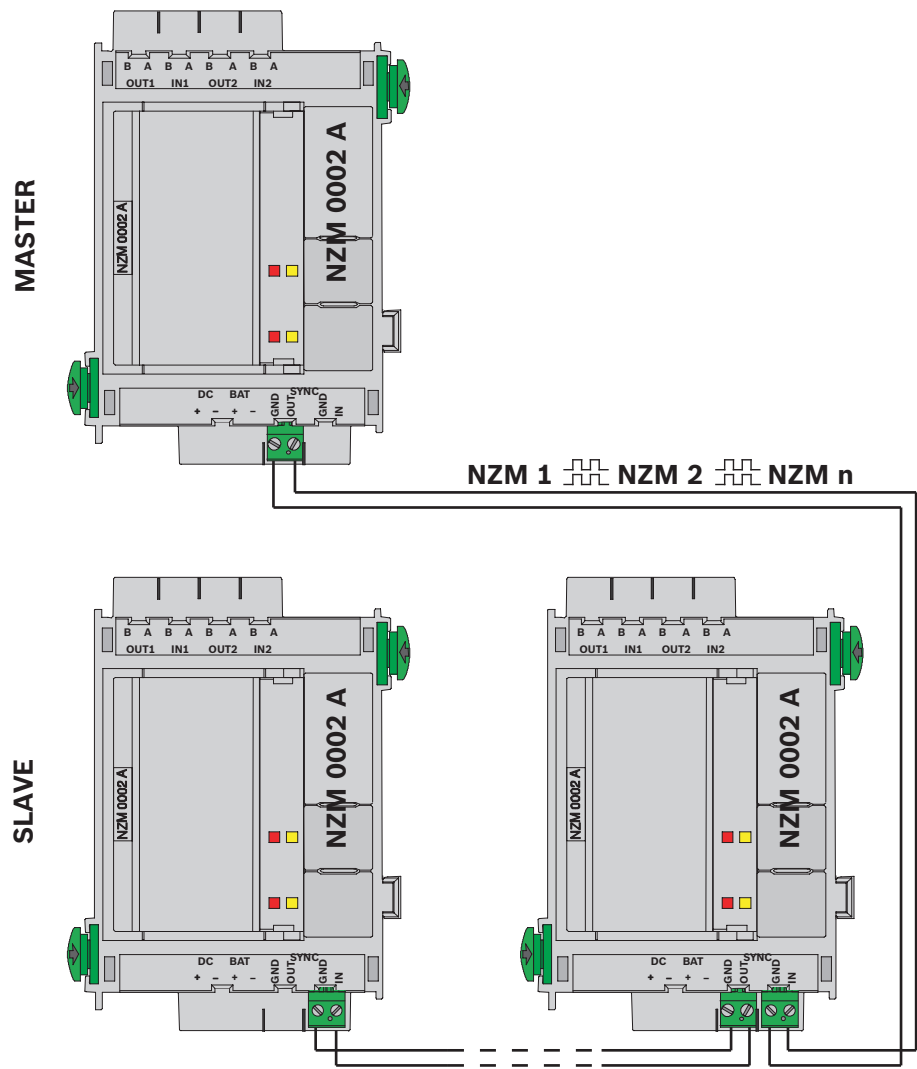



FK 100 LSN


3.3.5 NZM 0002 A

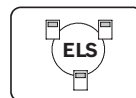


NZM 0002 A

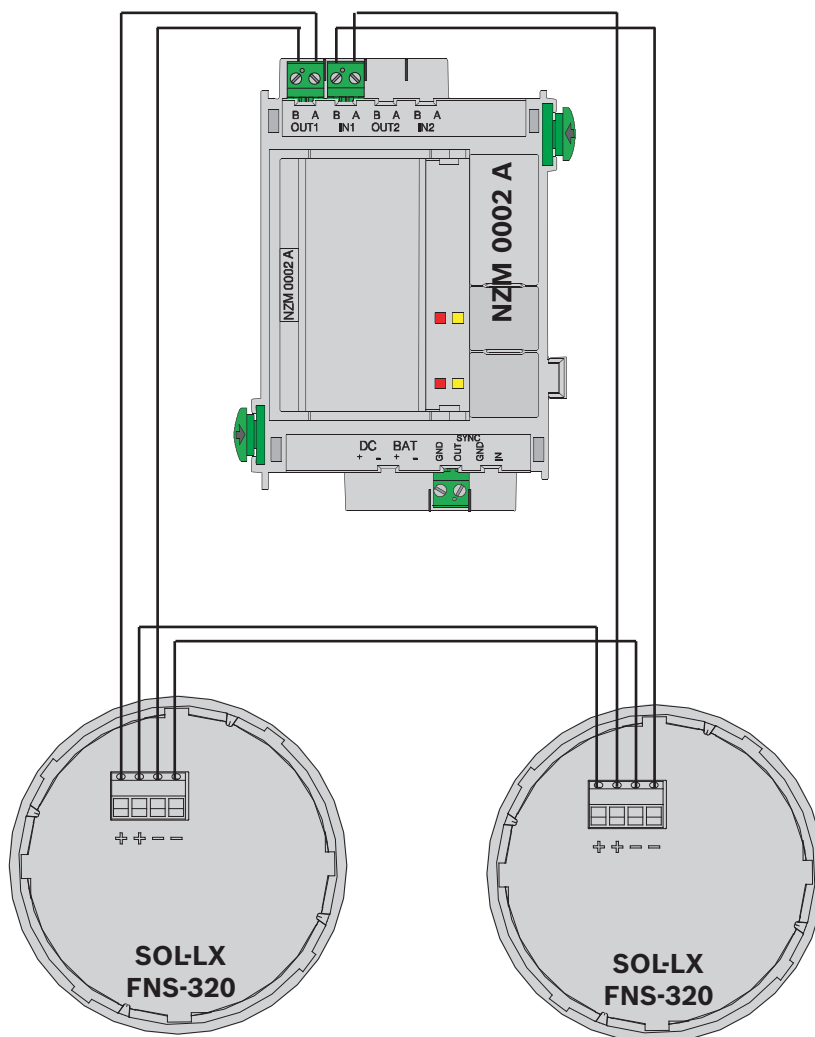




**SOL-LX
FNS-320**

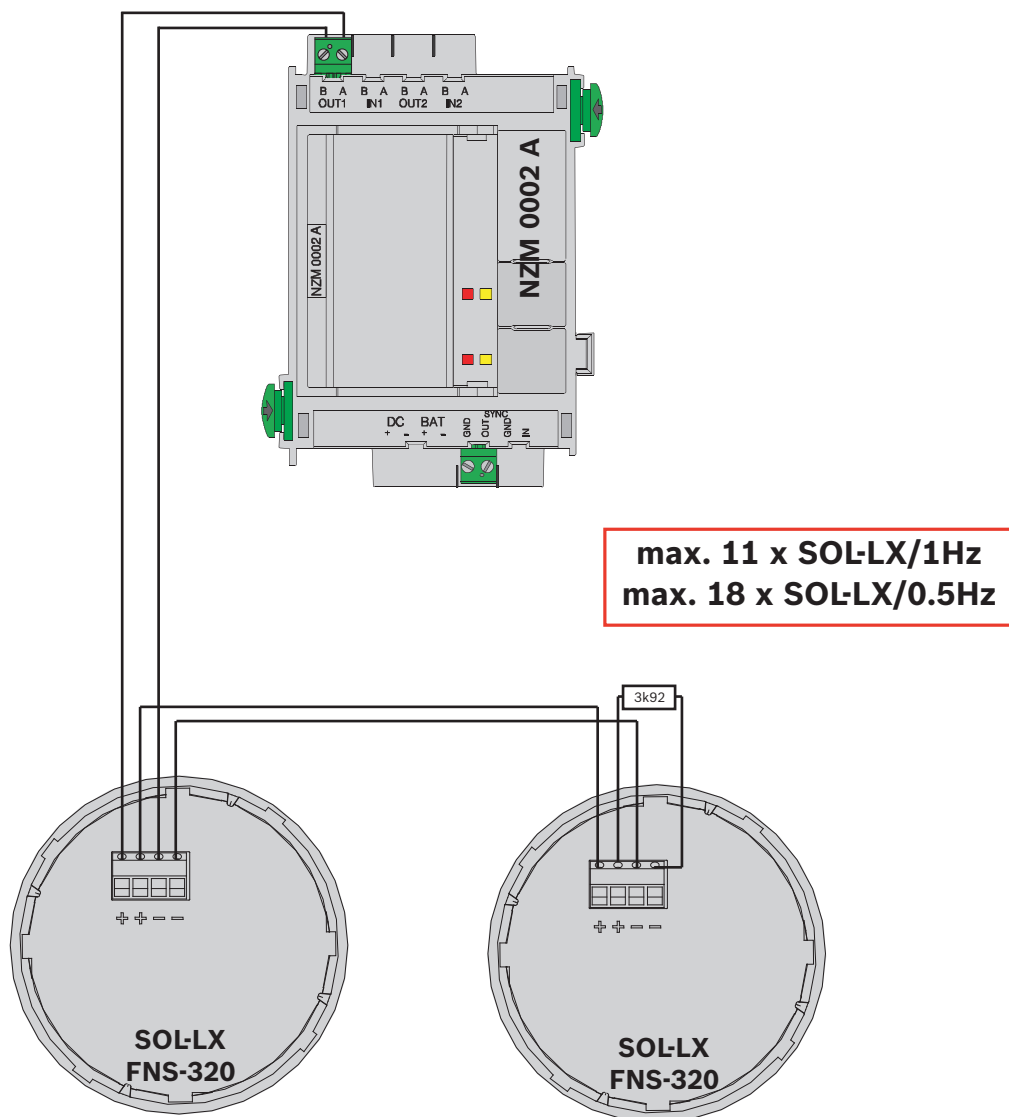
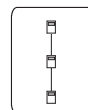


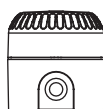
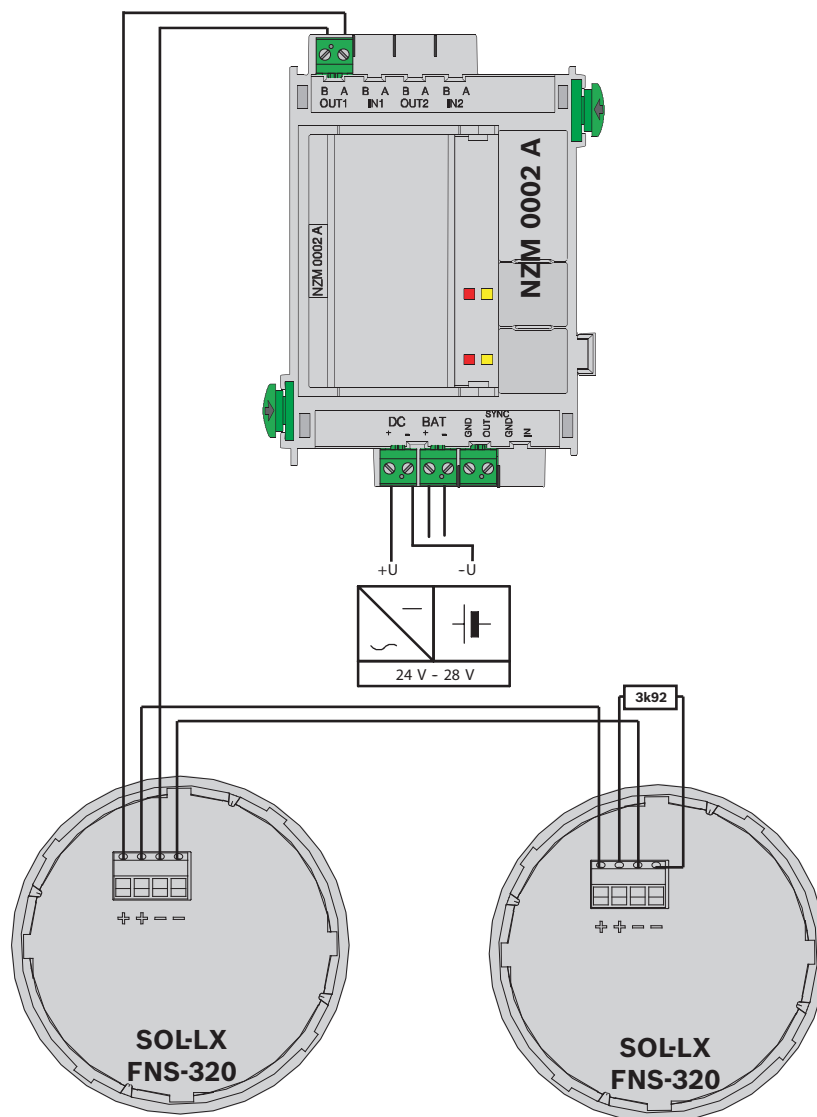
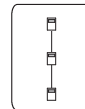
VdS 2489

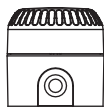




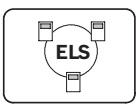
**SOL-LX
FNS-320**



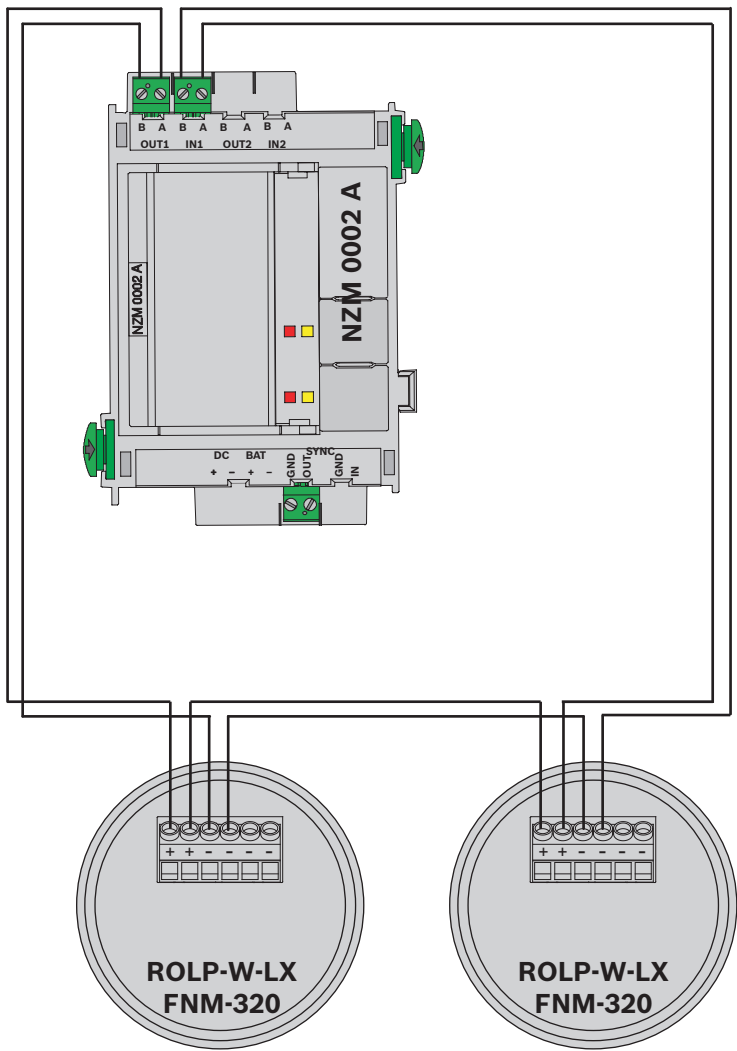
**SOL-LX
FNS-320**



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

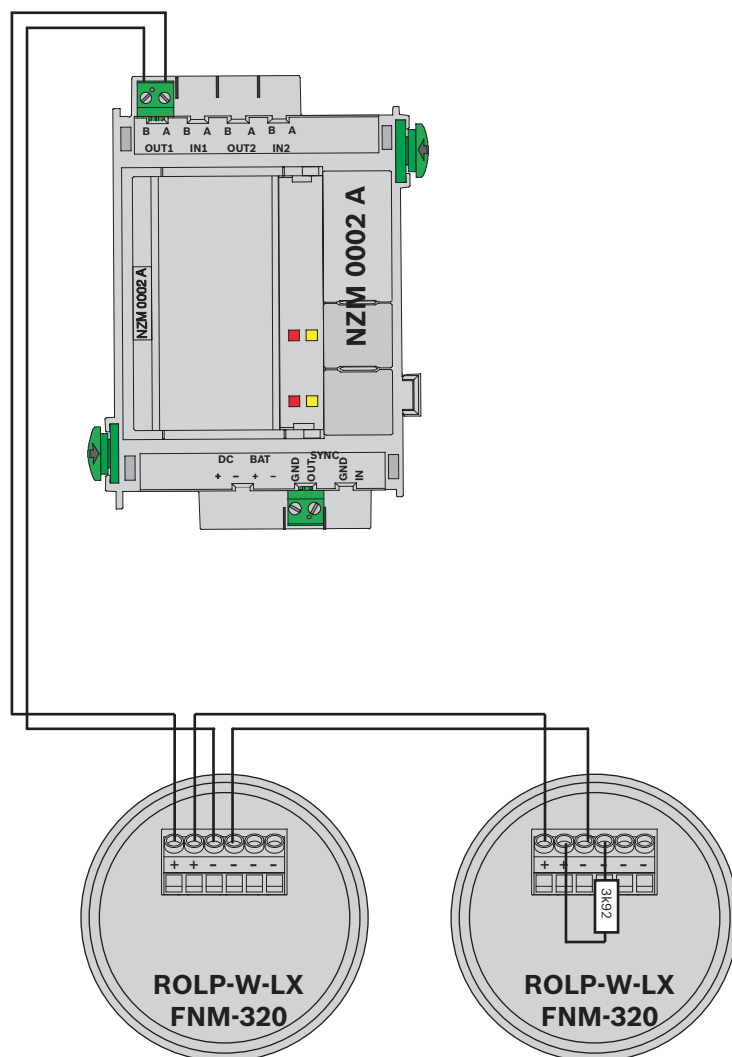
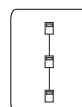


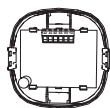
VdS 2489



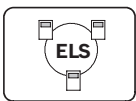


**ROLP-W-LX
FNM-320**

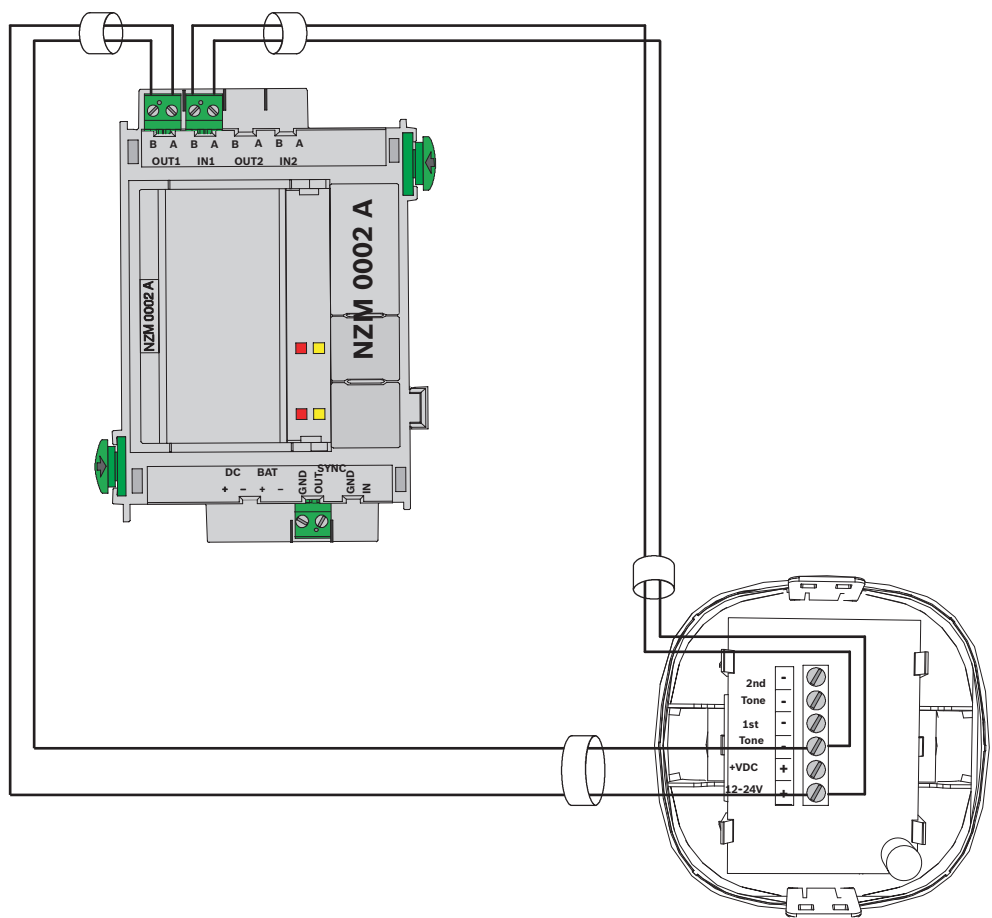


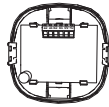
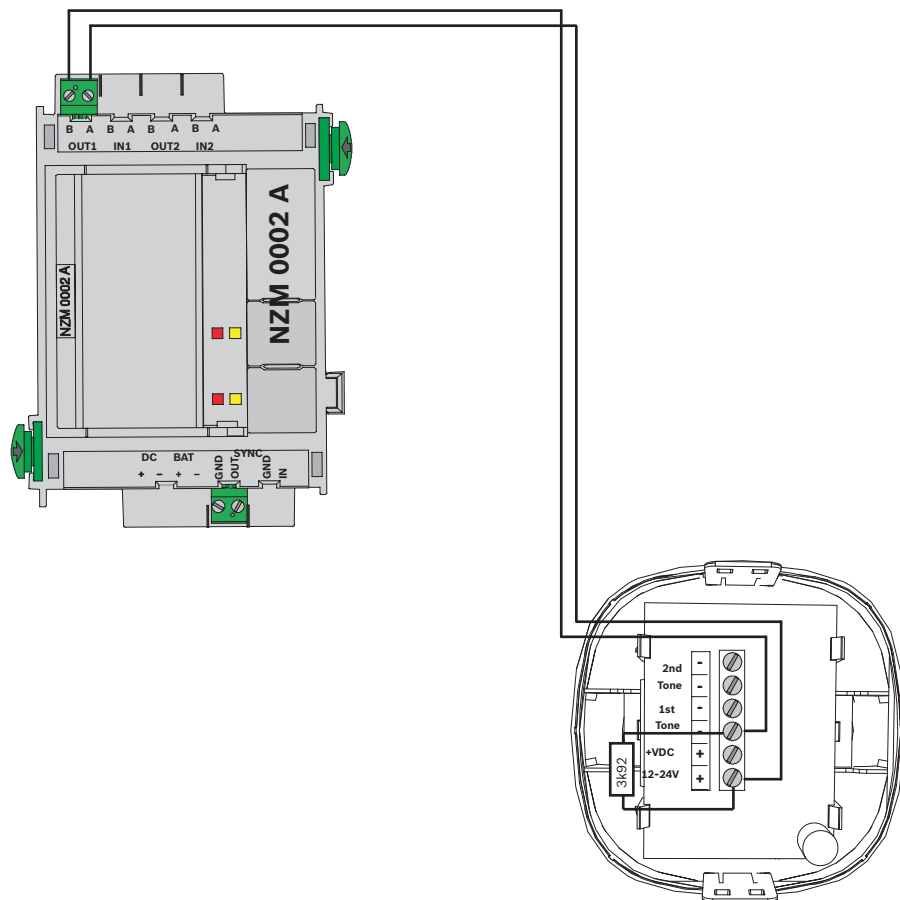
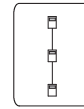


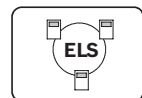
FNM-320V-A / -B



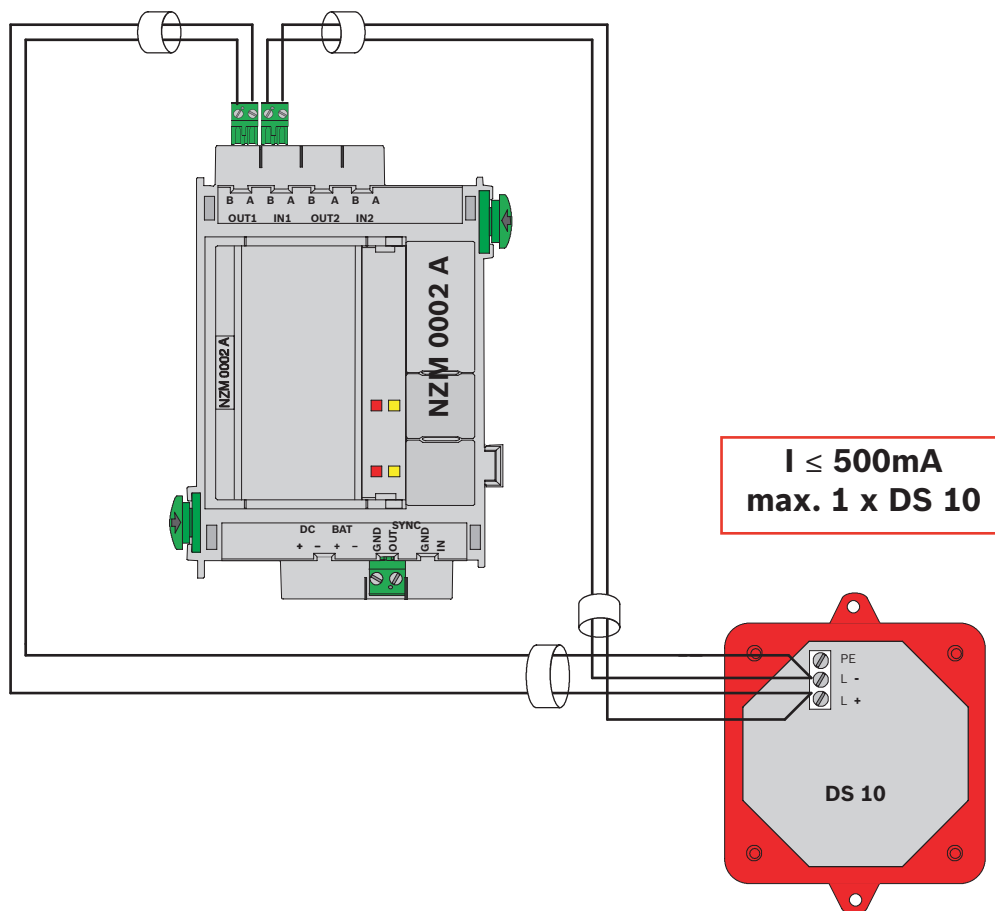
VdS 2489

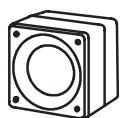



FNM-320V-A / -B


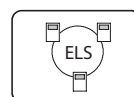


VdS 2489

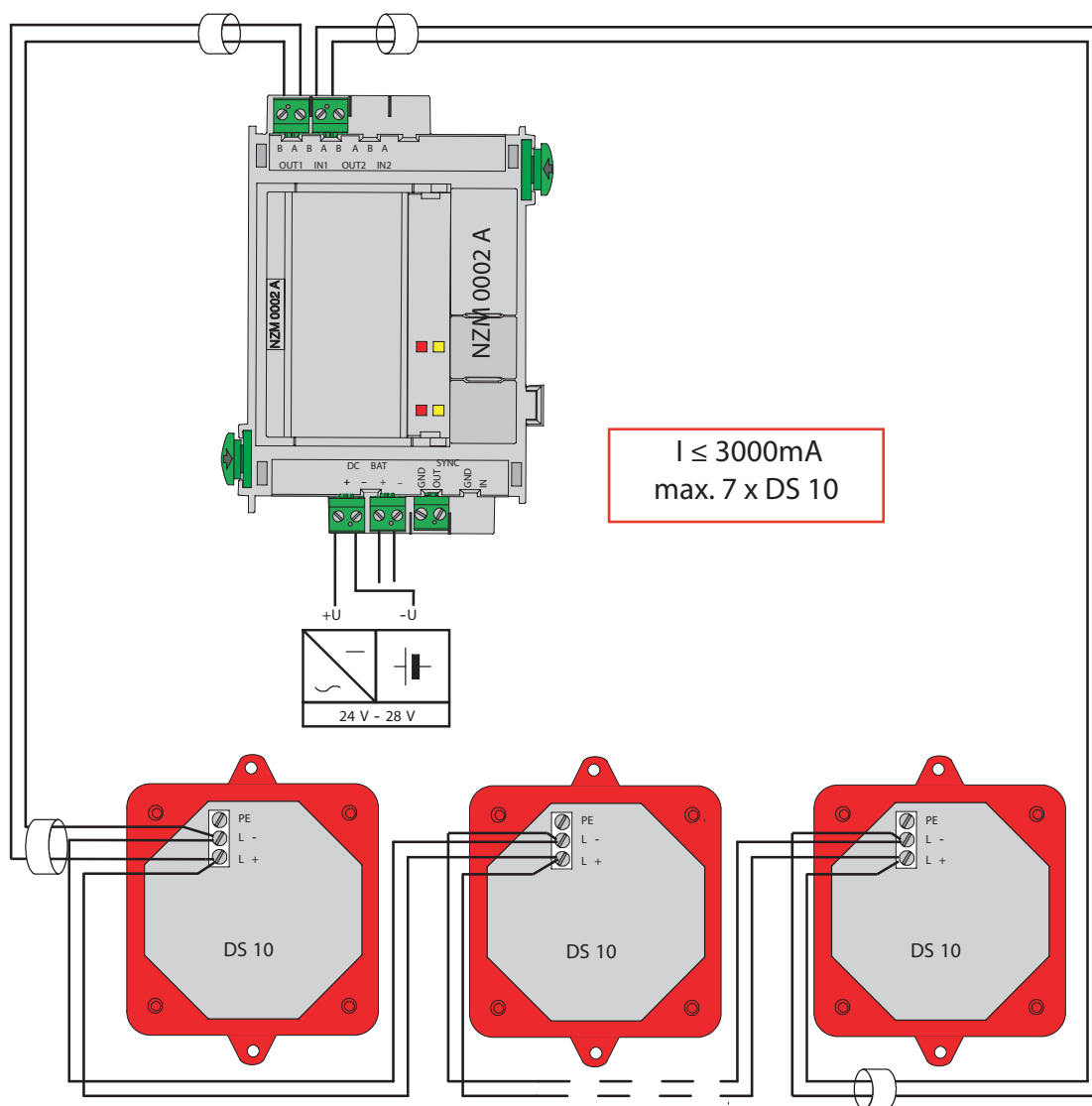


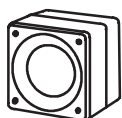
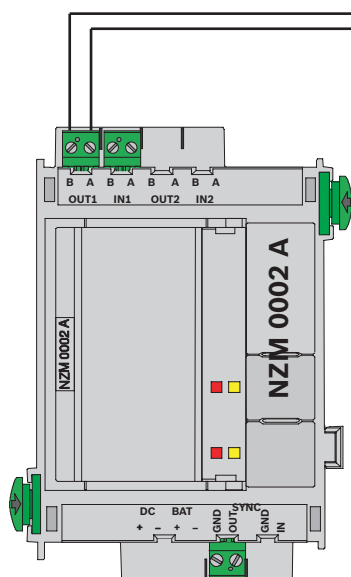
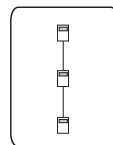


DS 10

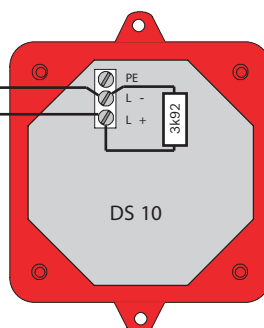


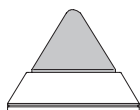
VdS 2489



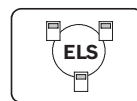
**DS 10**

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

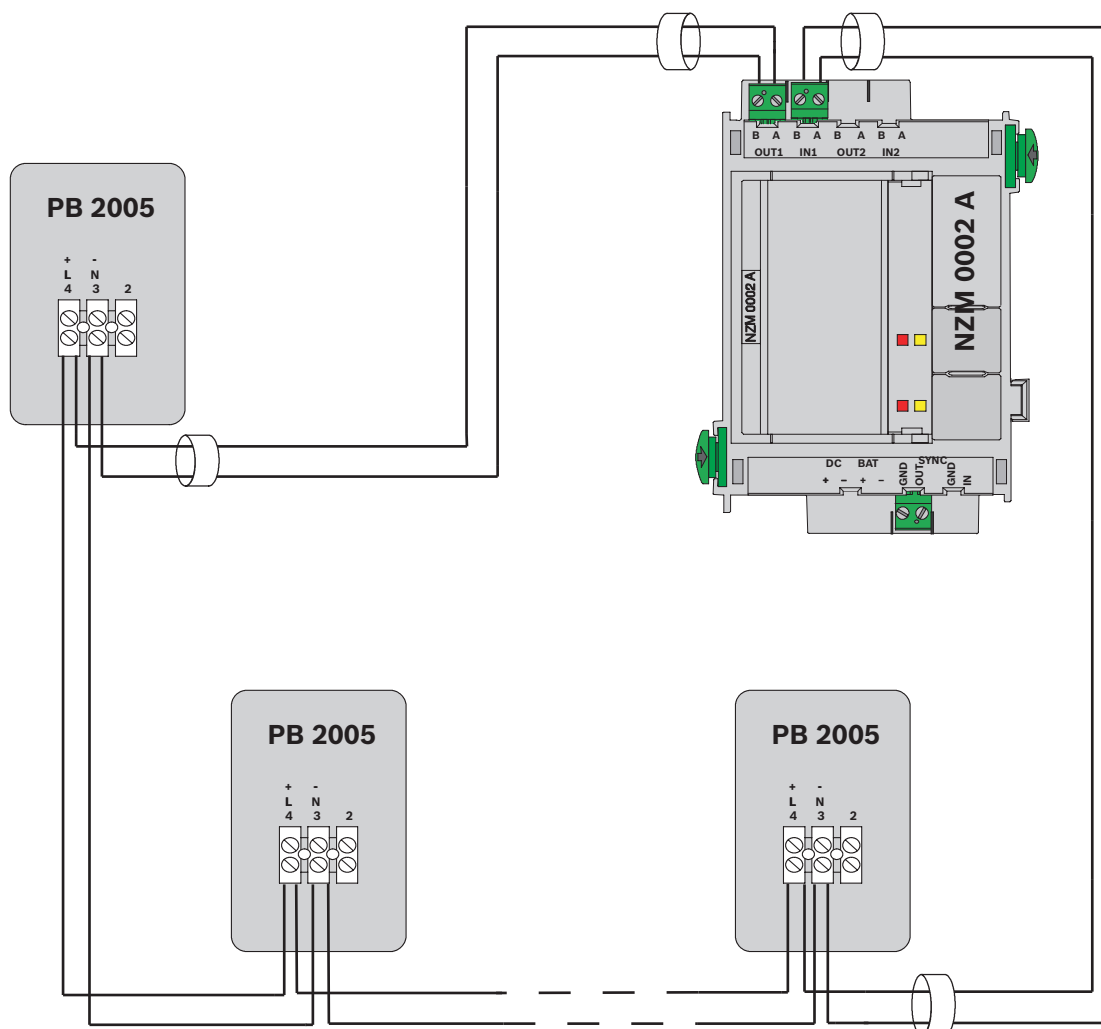




PB 2005

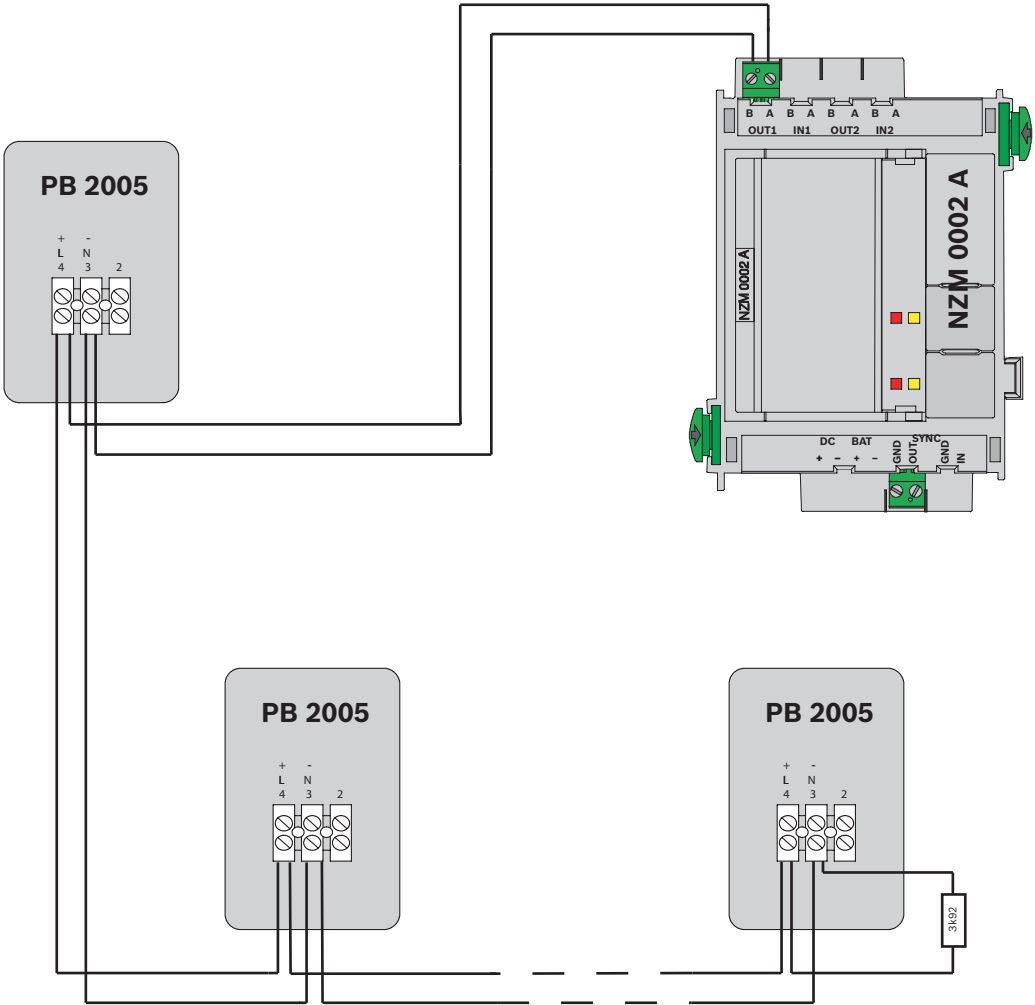
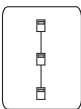


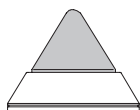
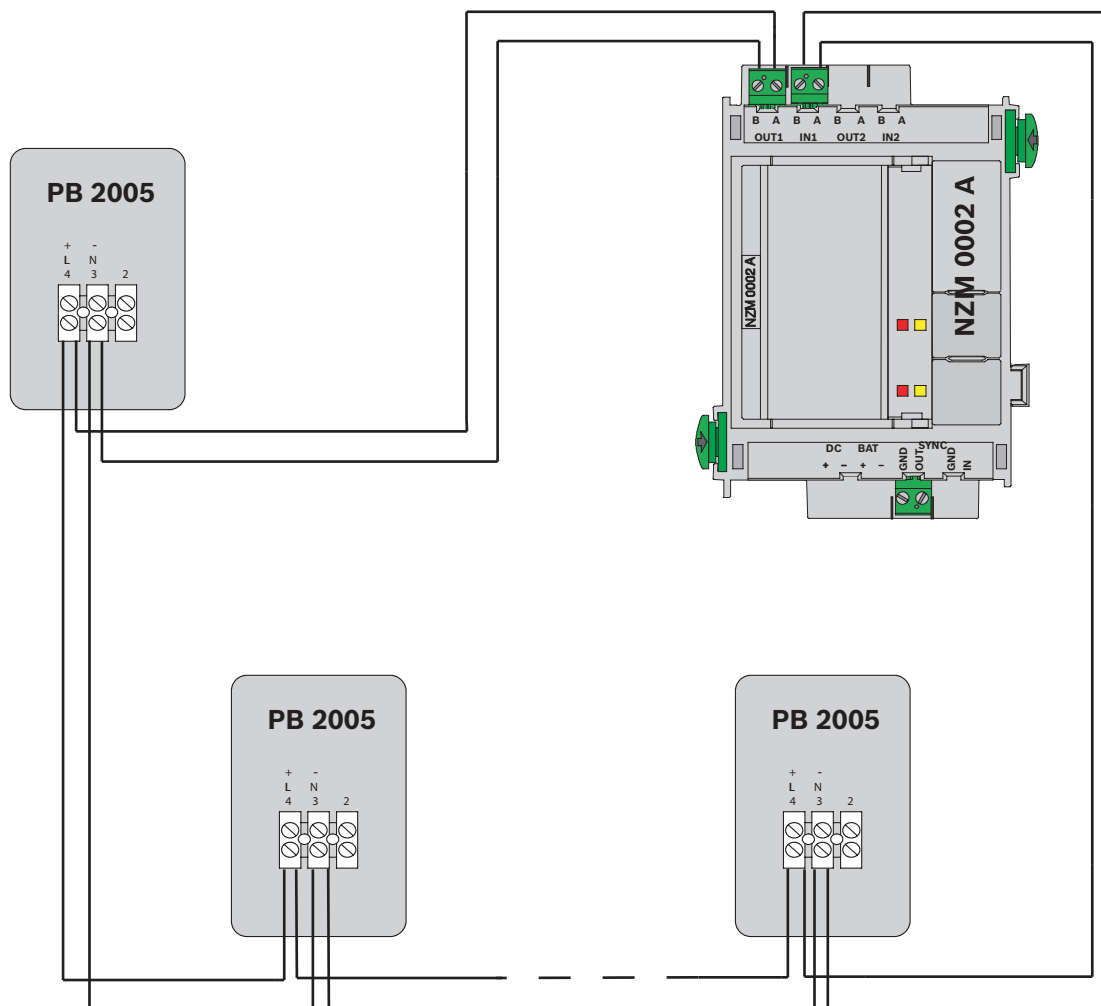
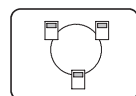
VdS 2489

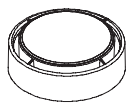




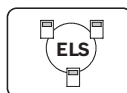
PB 2005



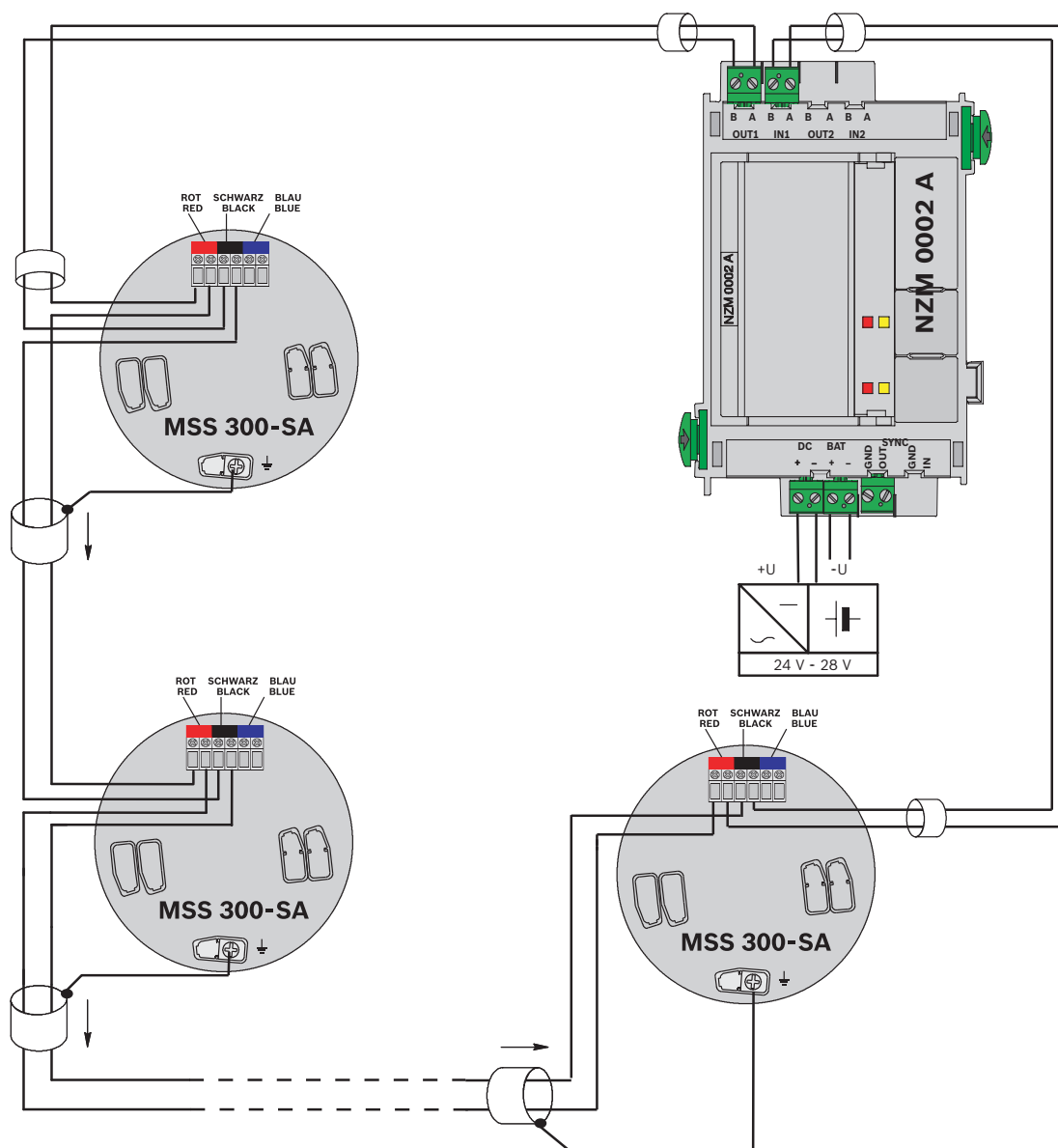

PB 2005




MSS 300-SA

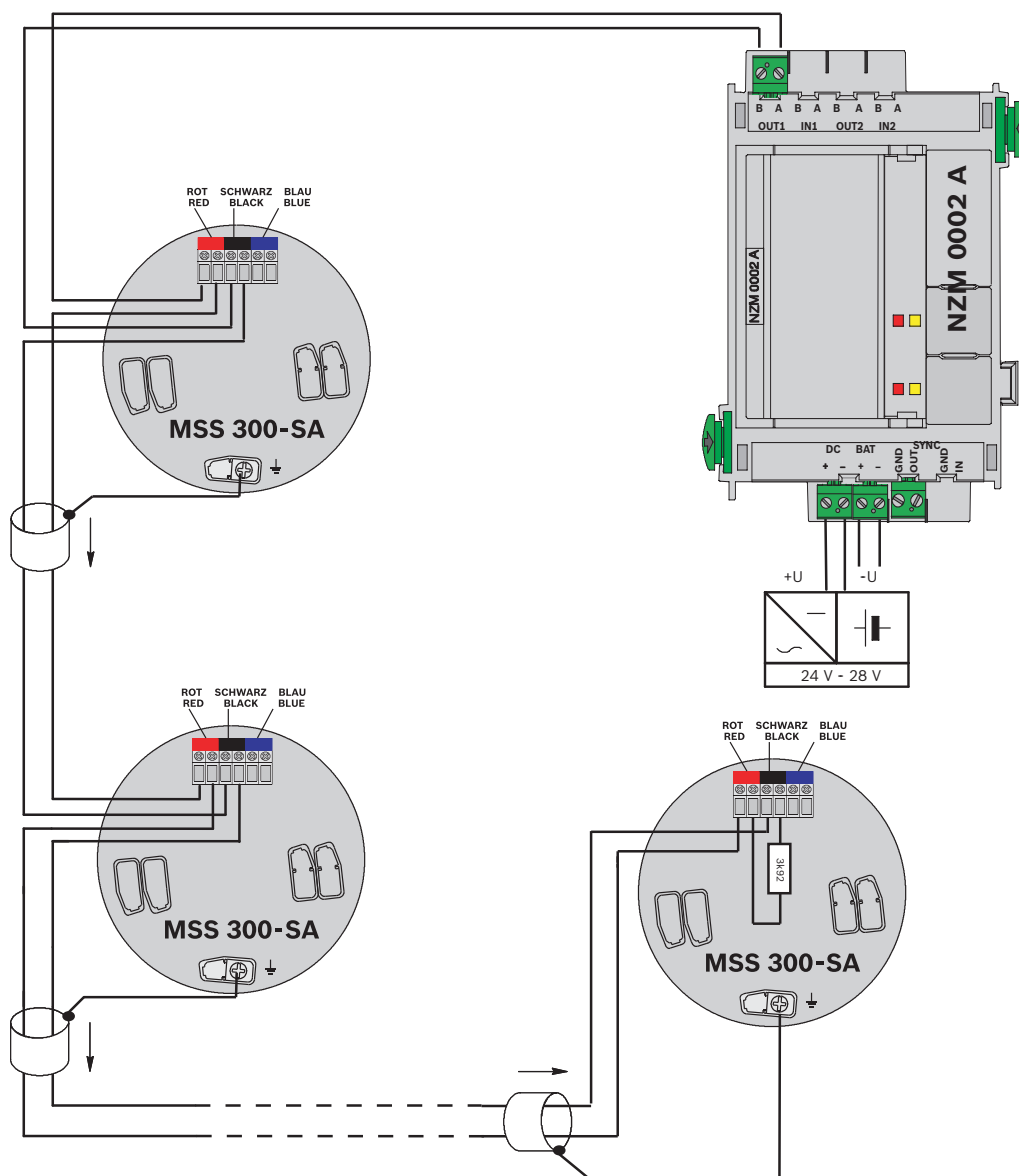
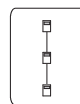


VdS 2489





MSS 300-SA



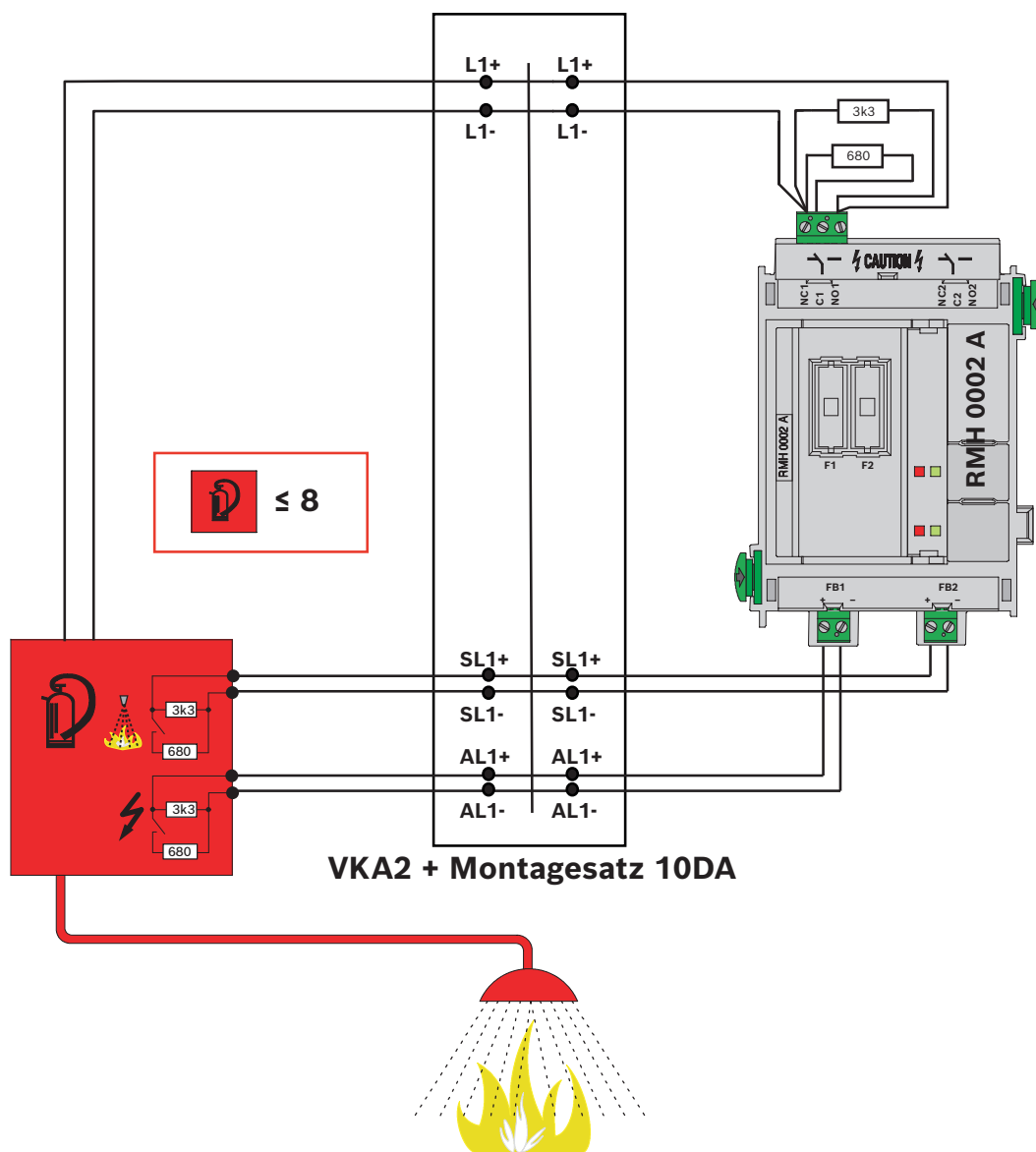
3.3.6

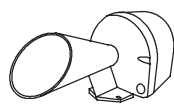
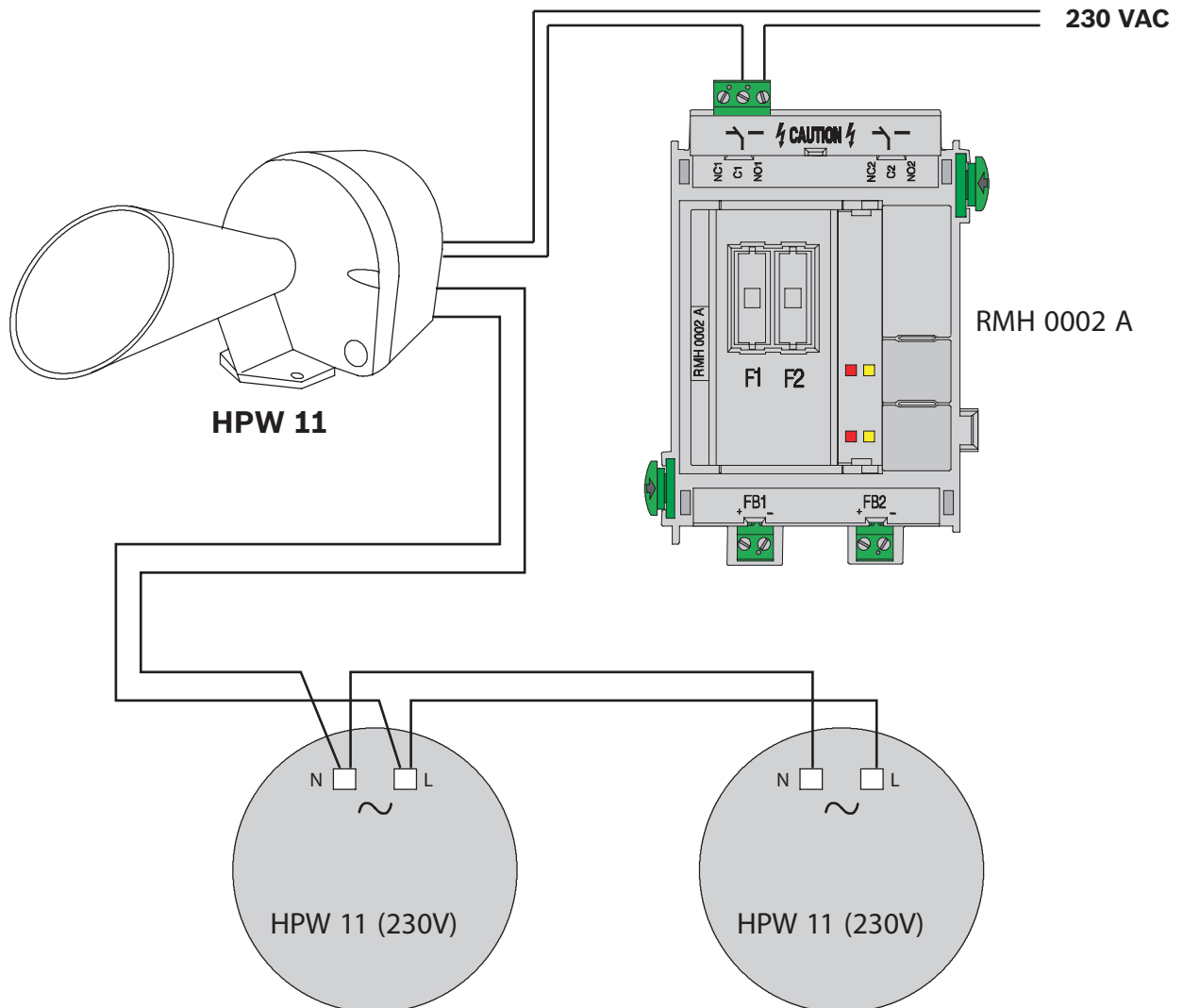
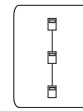
RMH 0002 A

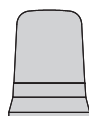


Löschanlage

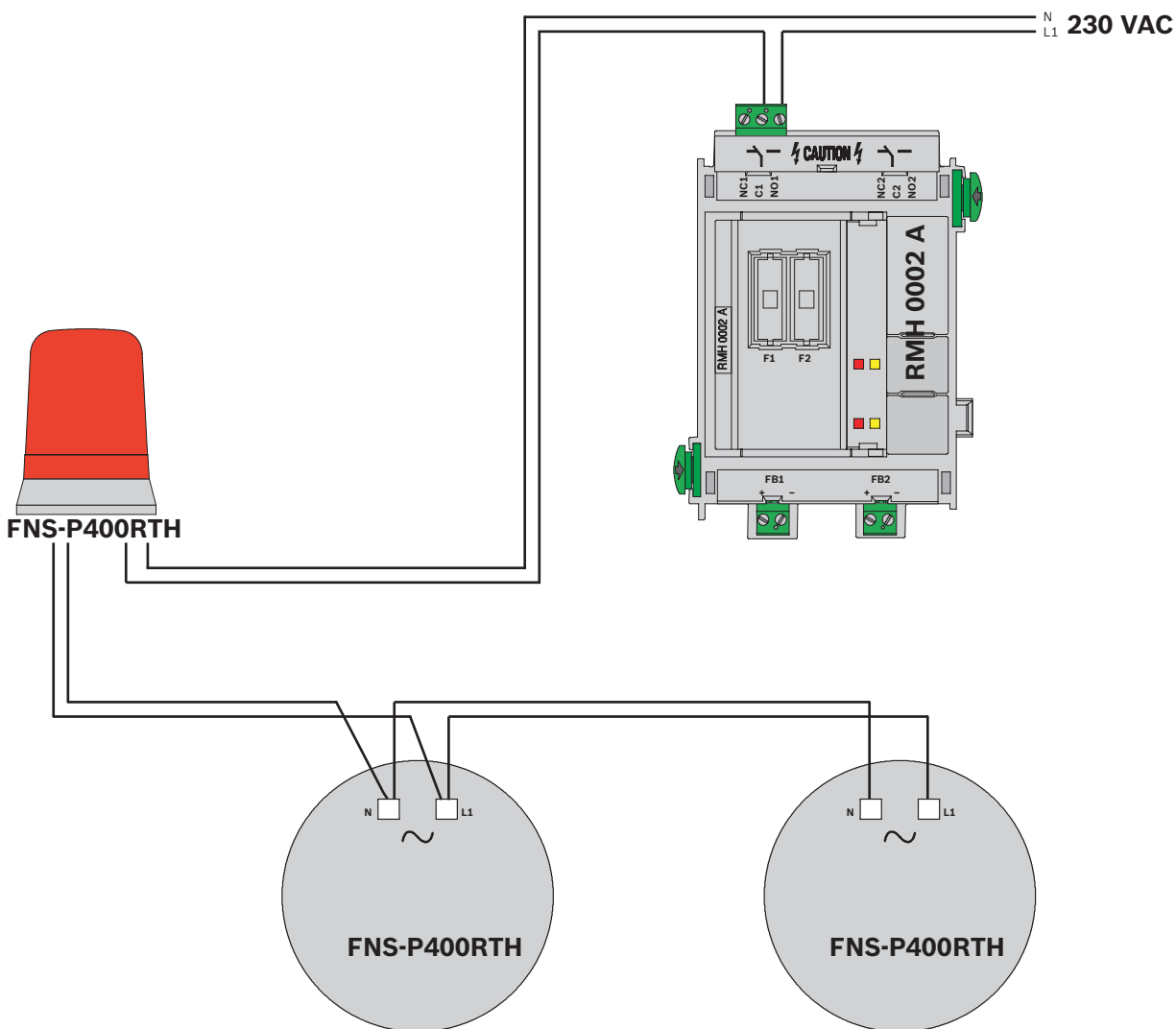
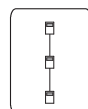
VdS 2496:2005-09



**HPW 11**

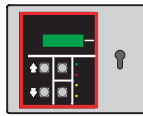


FNS-P400RTH

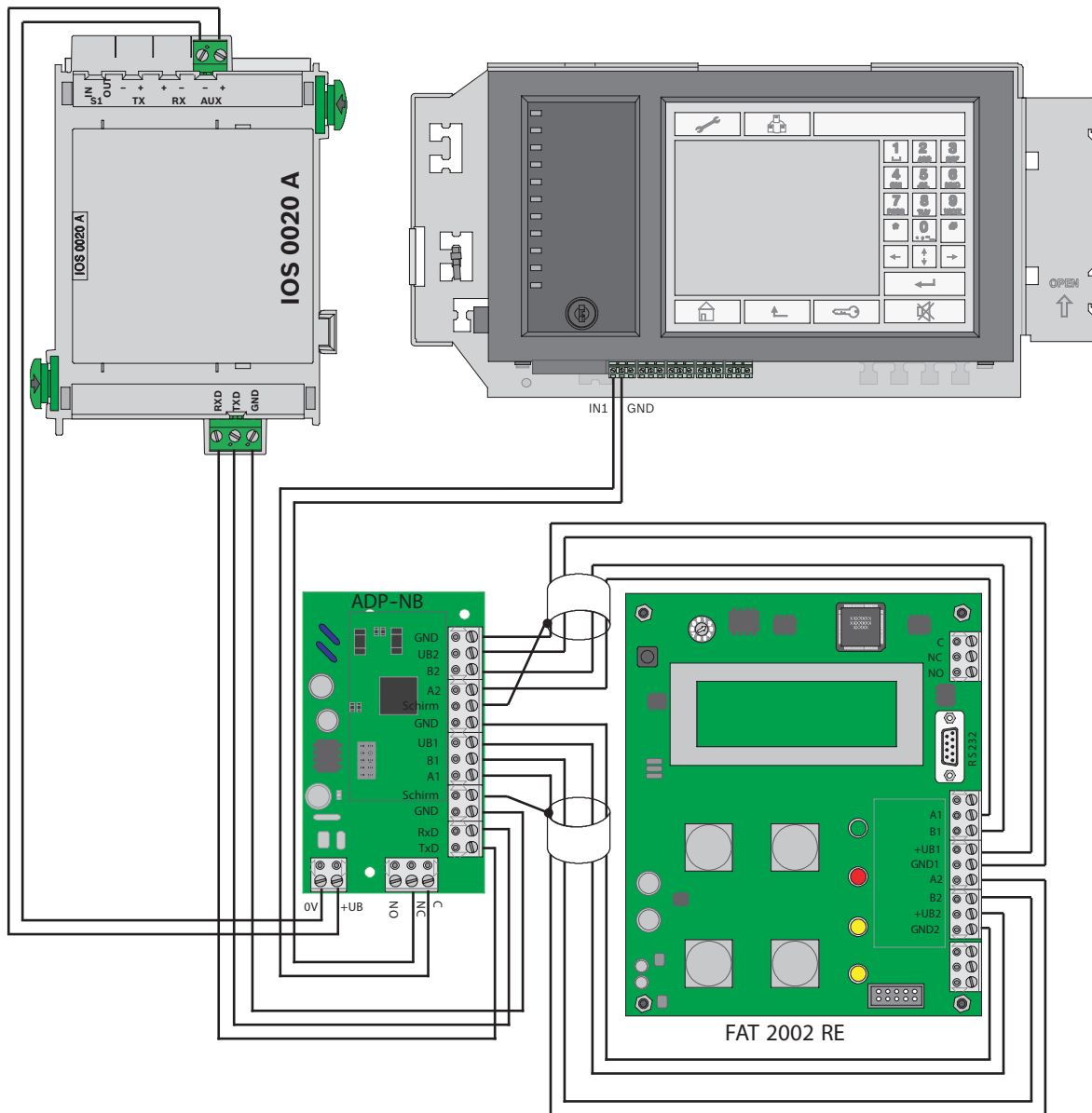


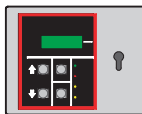
3.3.7

IOS 0020 A

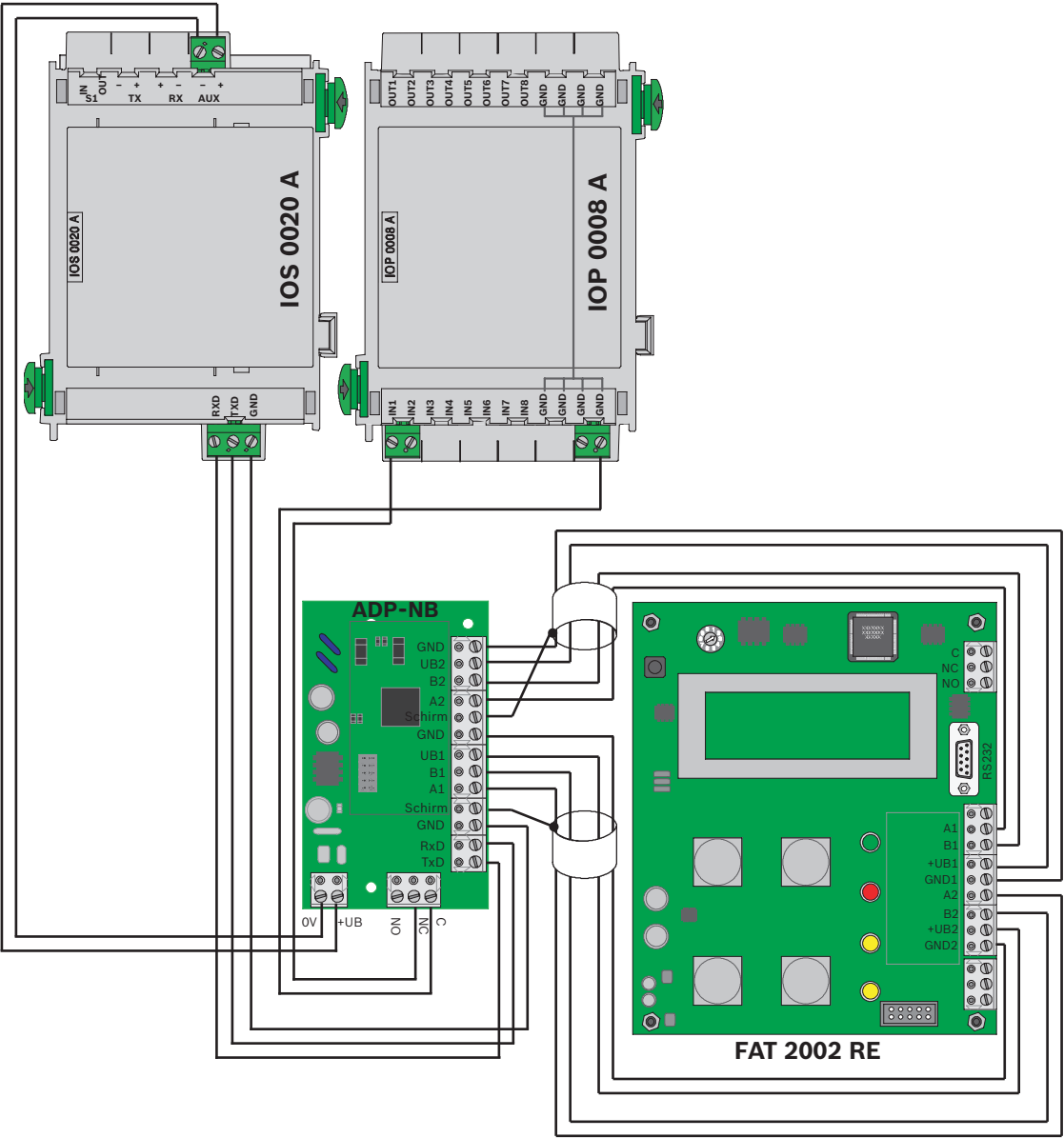


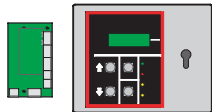
**FAT 2002 RE
ADP-NB**



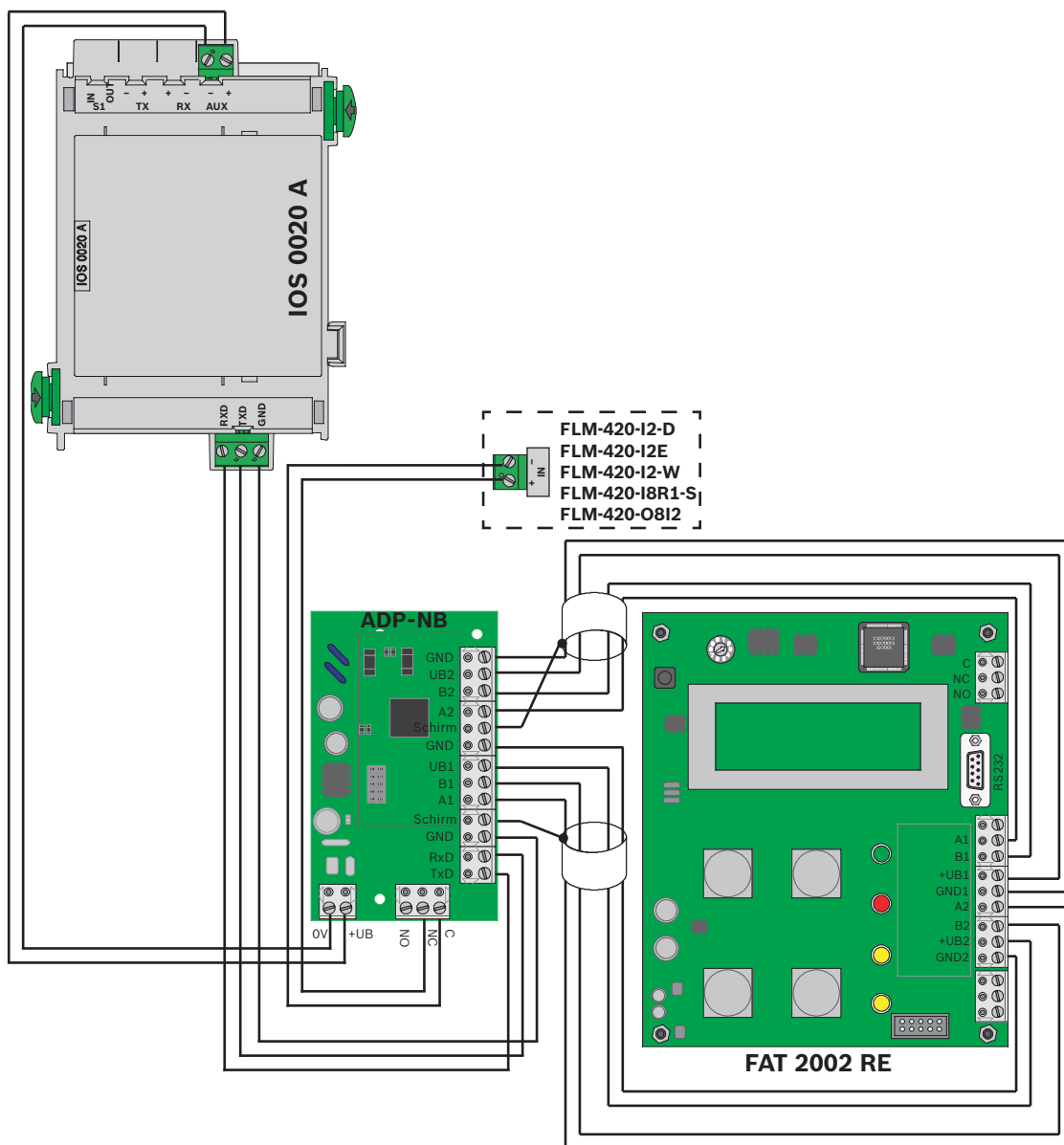


FAT 2002 RE
ADP-NB



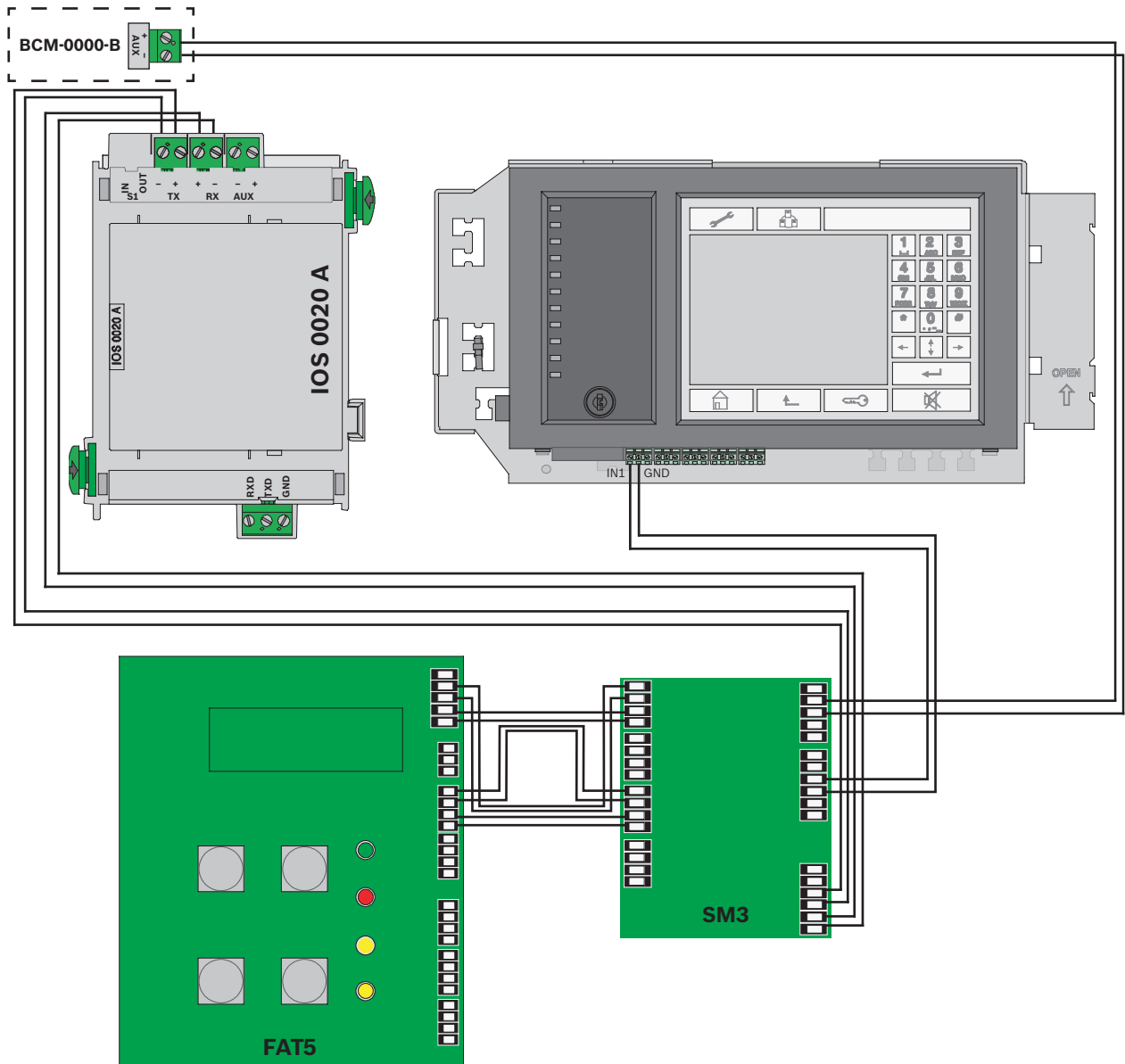


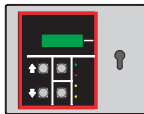
**FAT 2002 RE
ADP-NB**



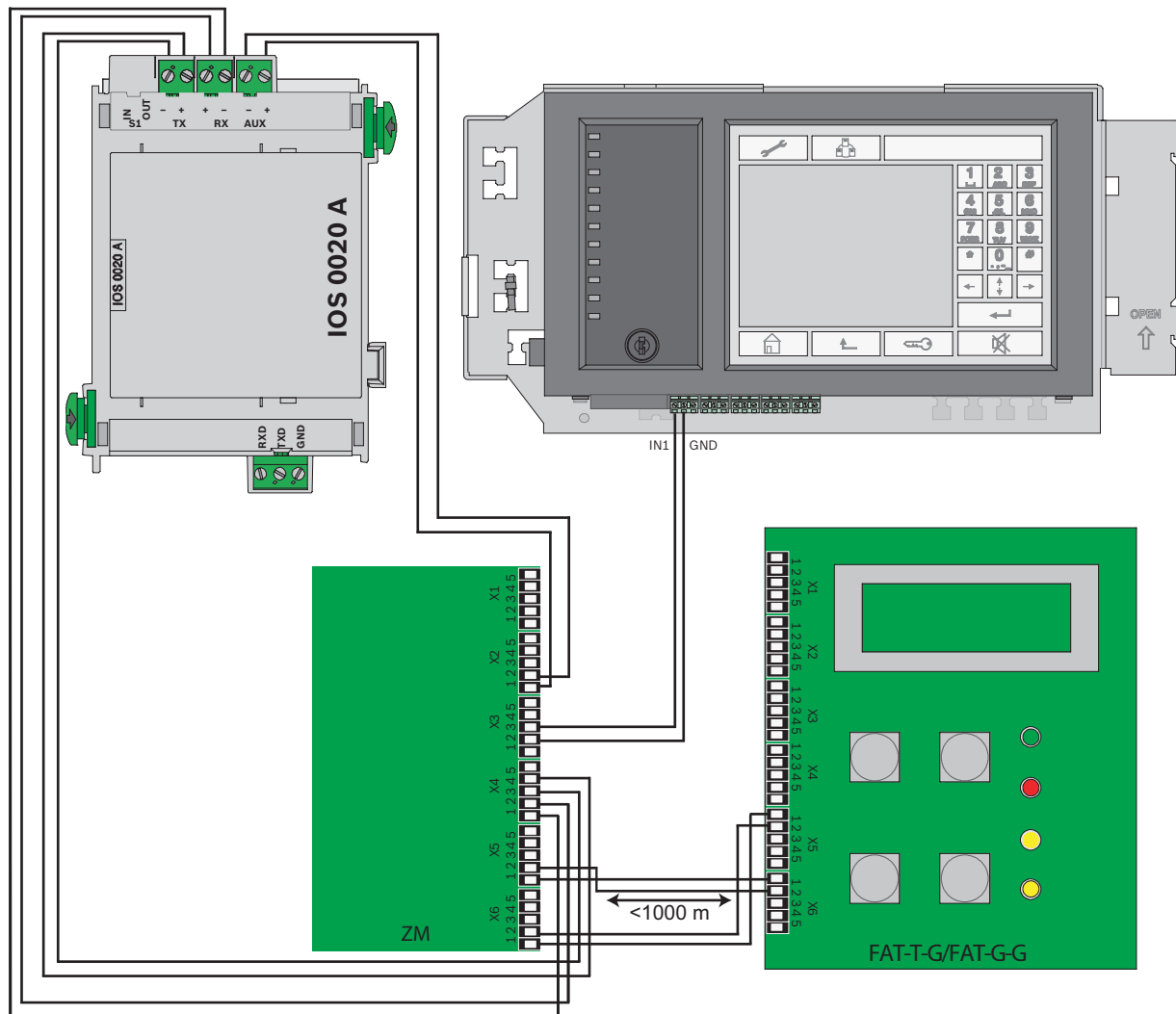


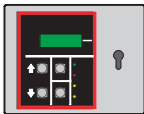
FAT5
SM3



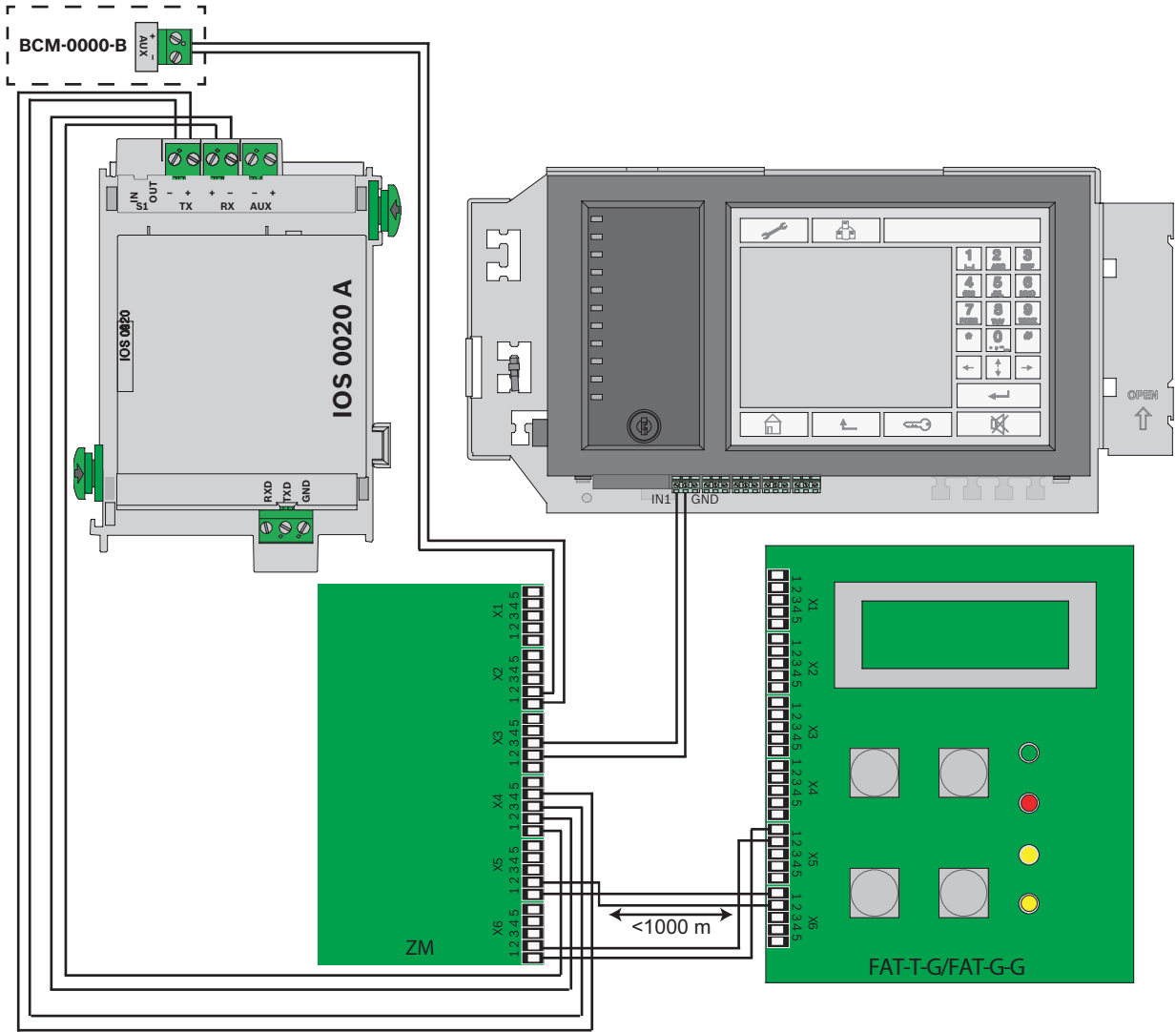


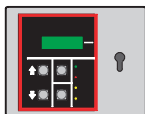
**FAT-T-G/FAT-G-G
ZM**



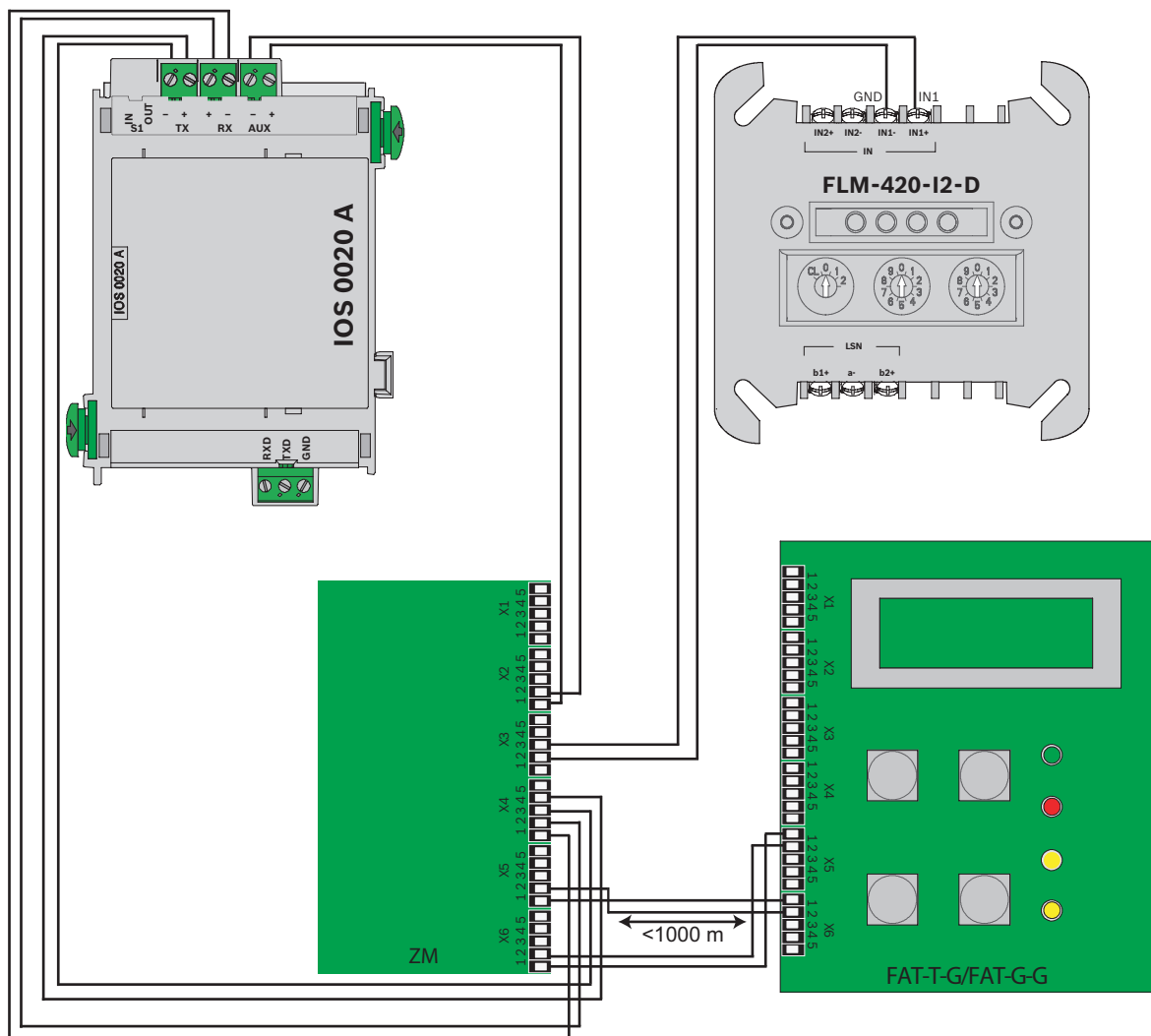


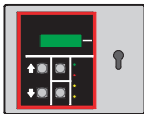
FAT-T-G/FAT-G-G
ZM



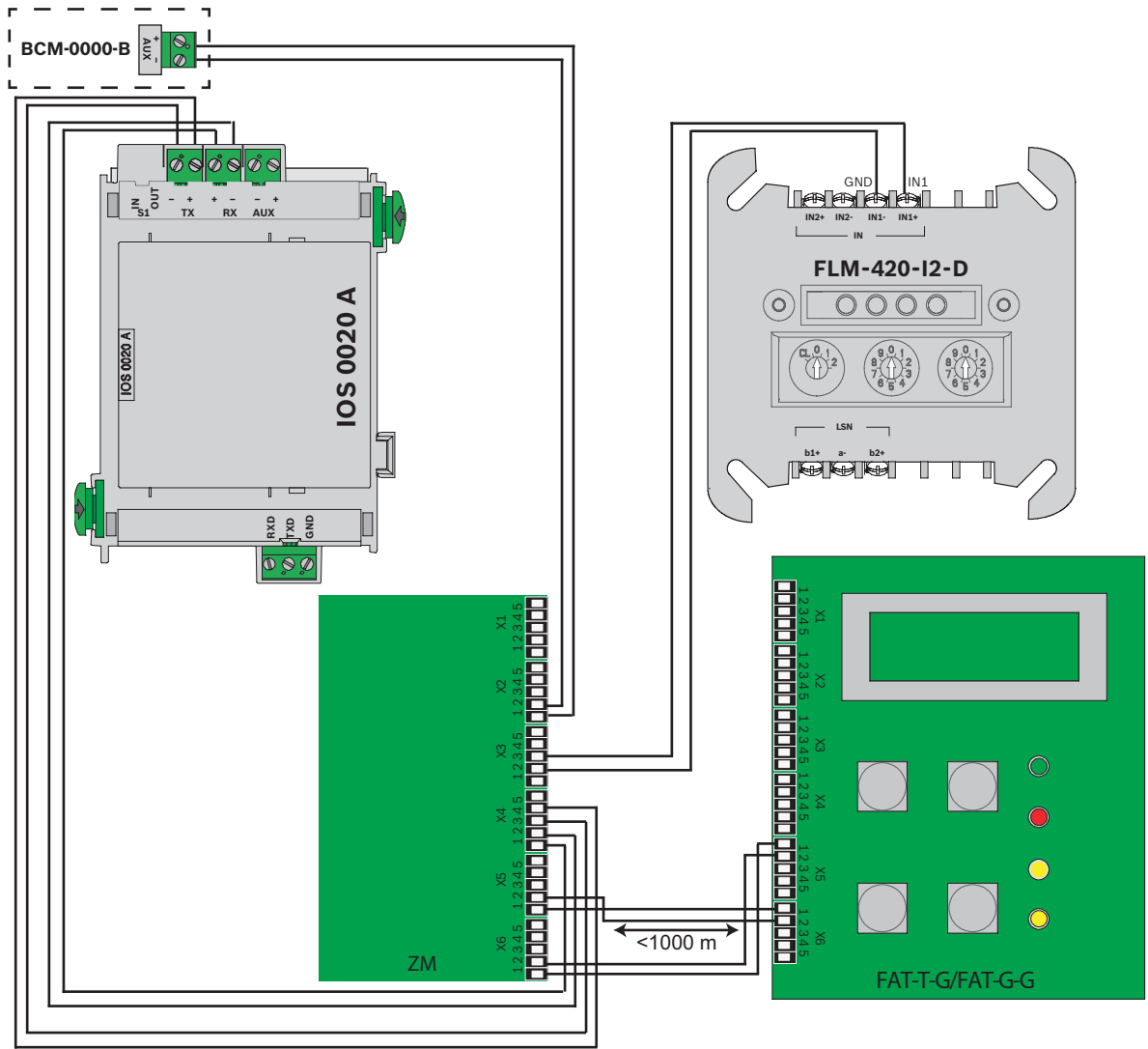


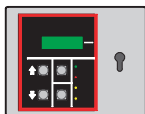
**FAT-T-G/FAT-G-G
ZM**



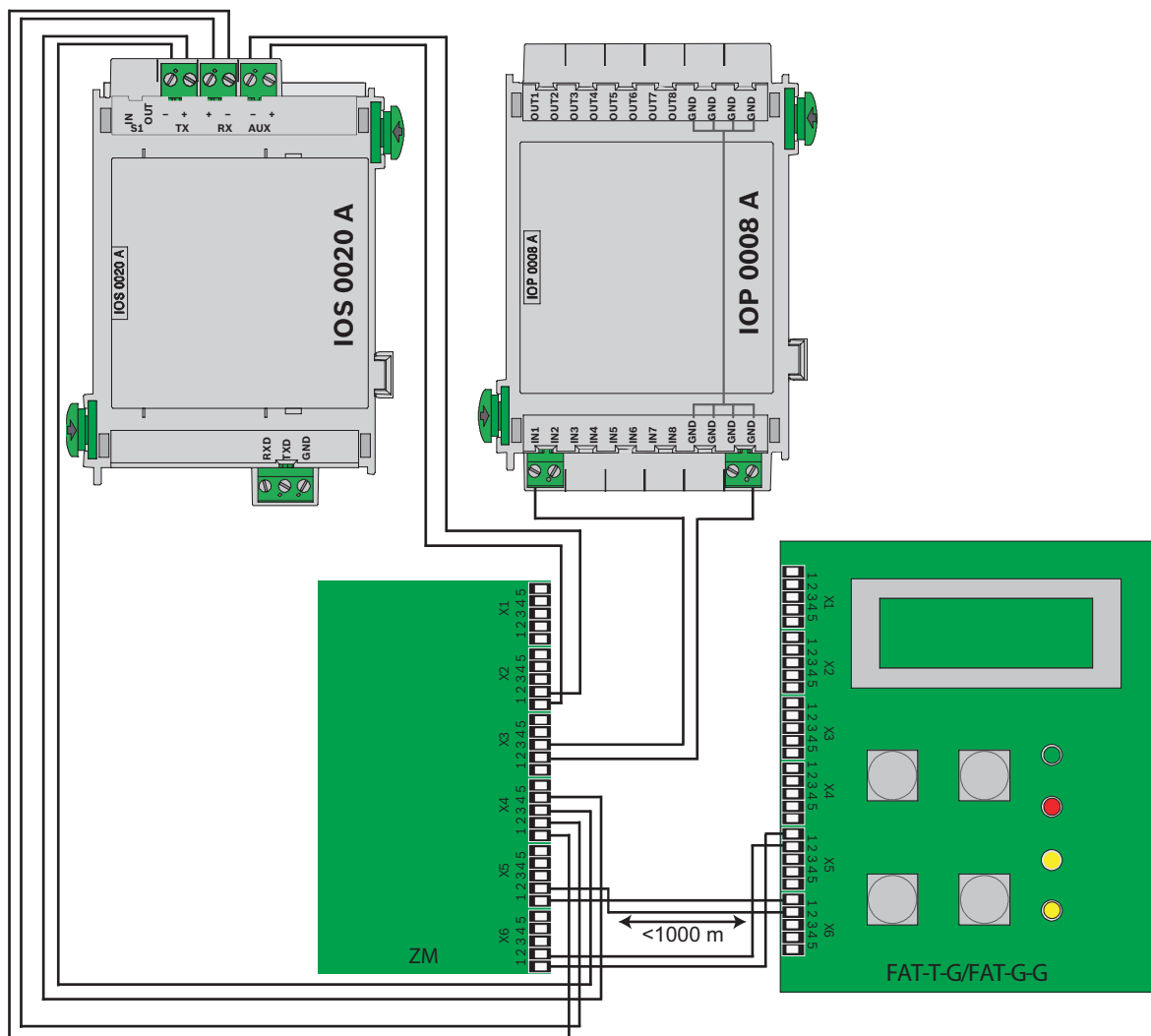


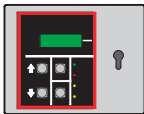
FAT-T-G/FAT-G-G
ZM



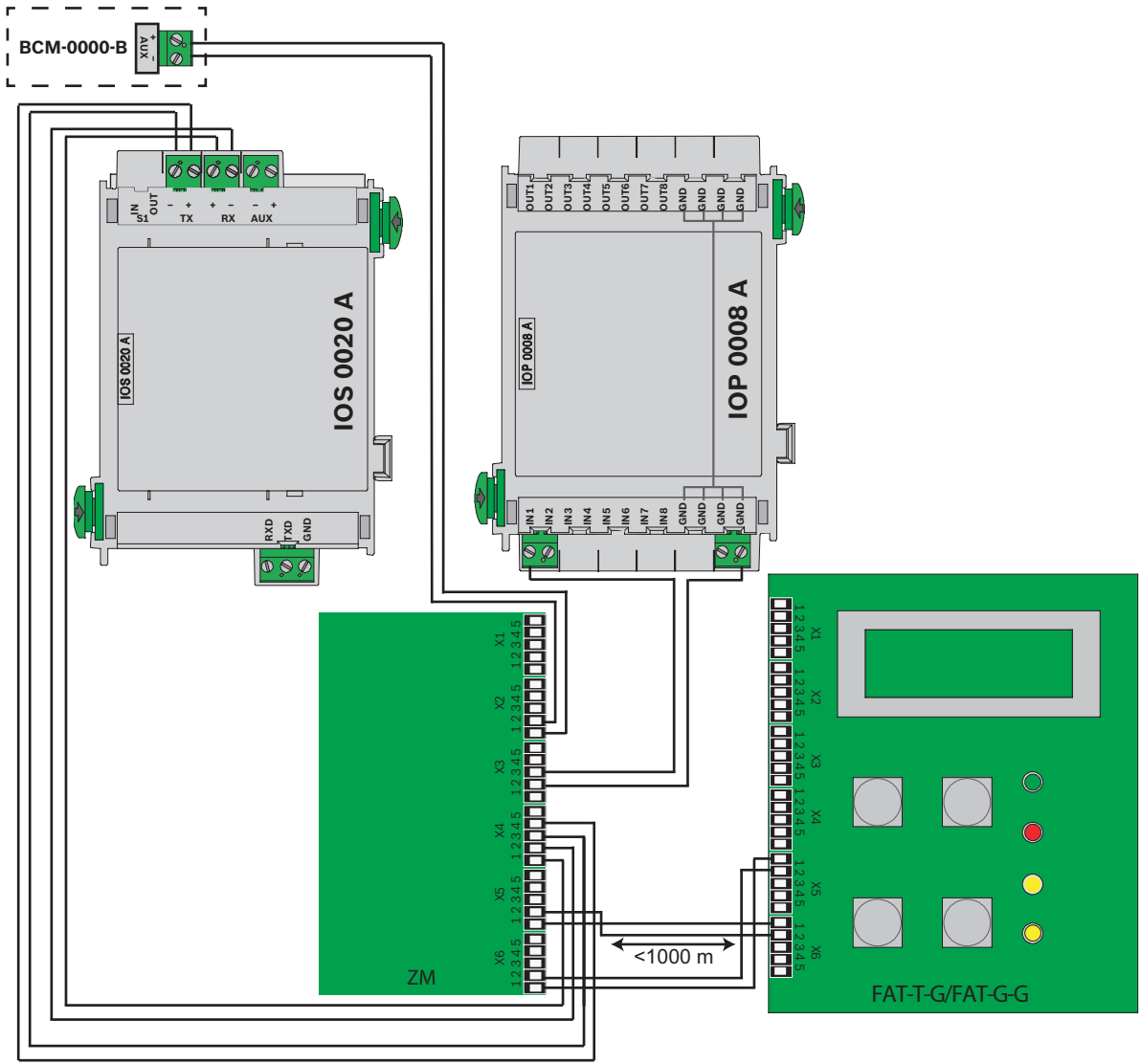


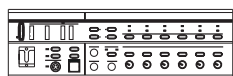
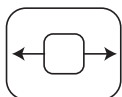
**FAT-T-G/FAT-G-G
ZM**



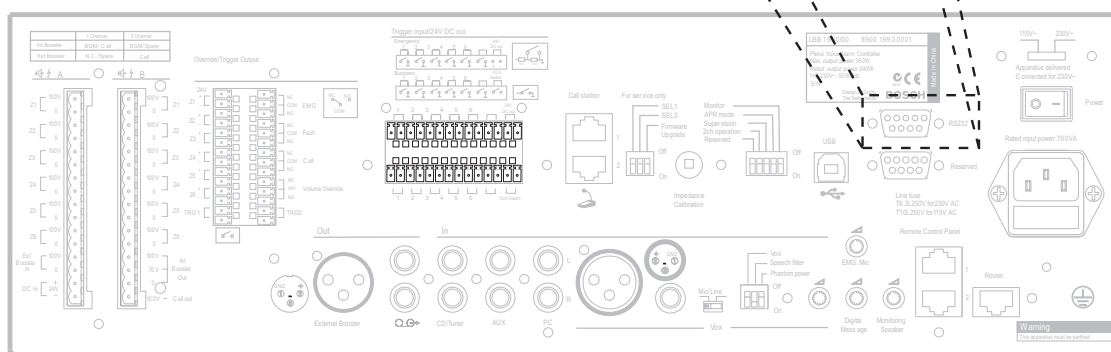
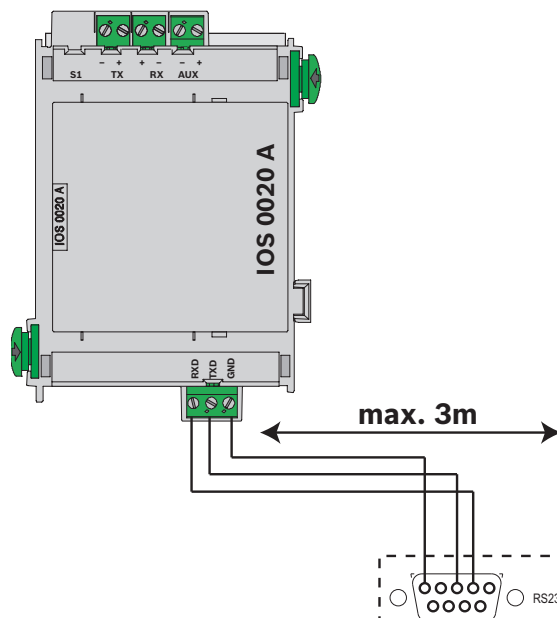
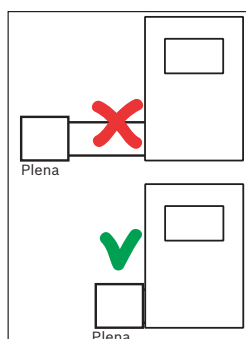


FAT-T-G/FAT-G-G
ZM



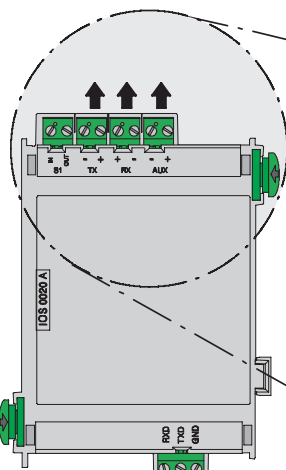
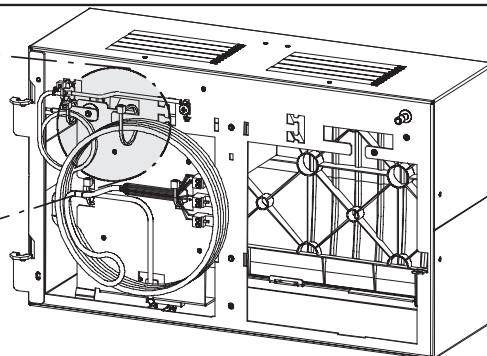
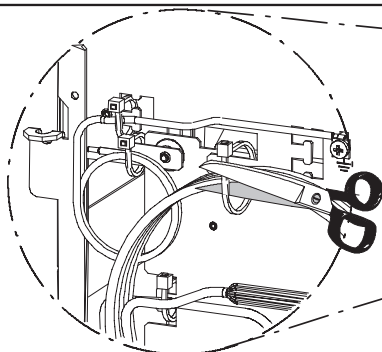


Plena

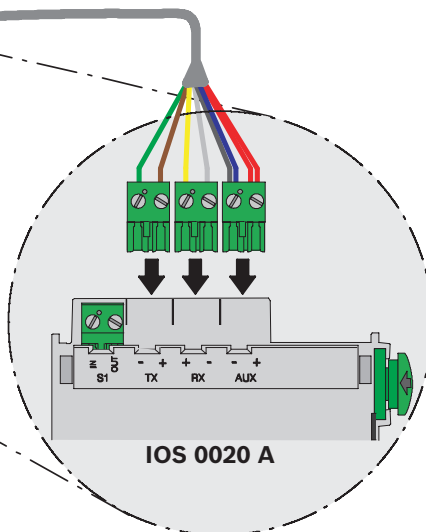




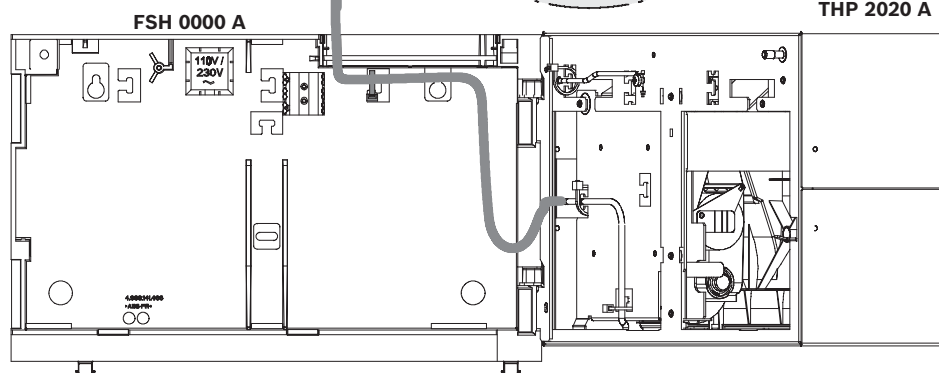
THP 2020 A



IOS 0020 A

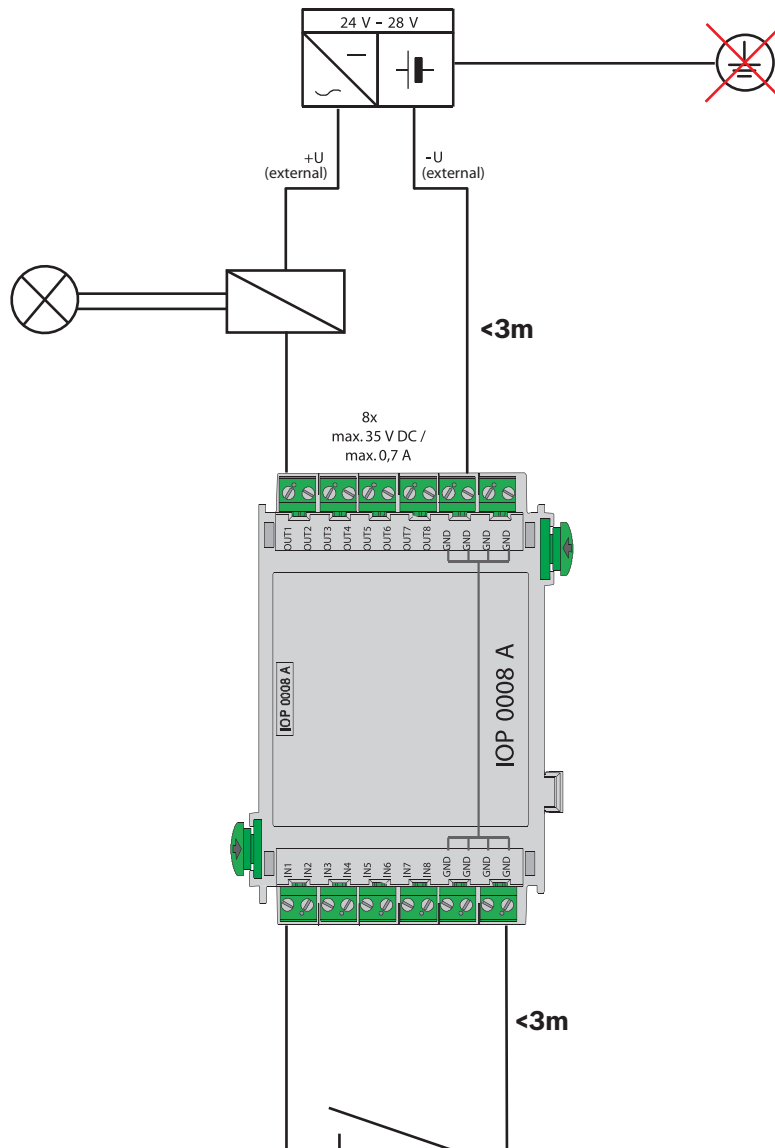
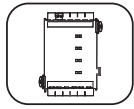


IOS 0020 A



FSH 0000 A

THP 2020 A

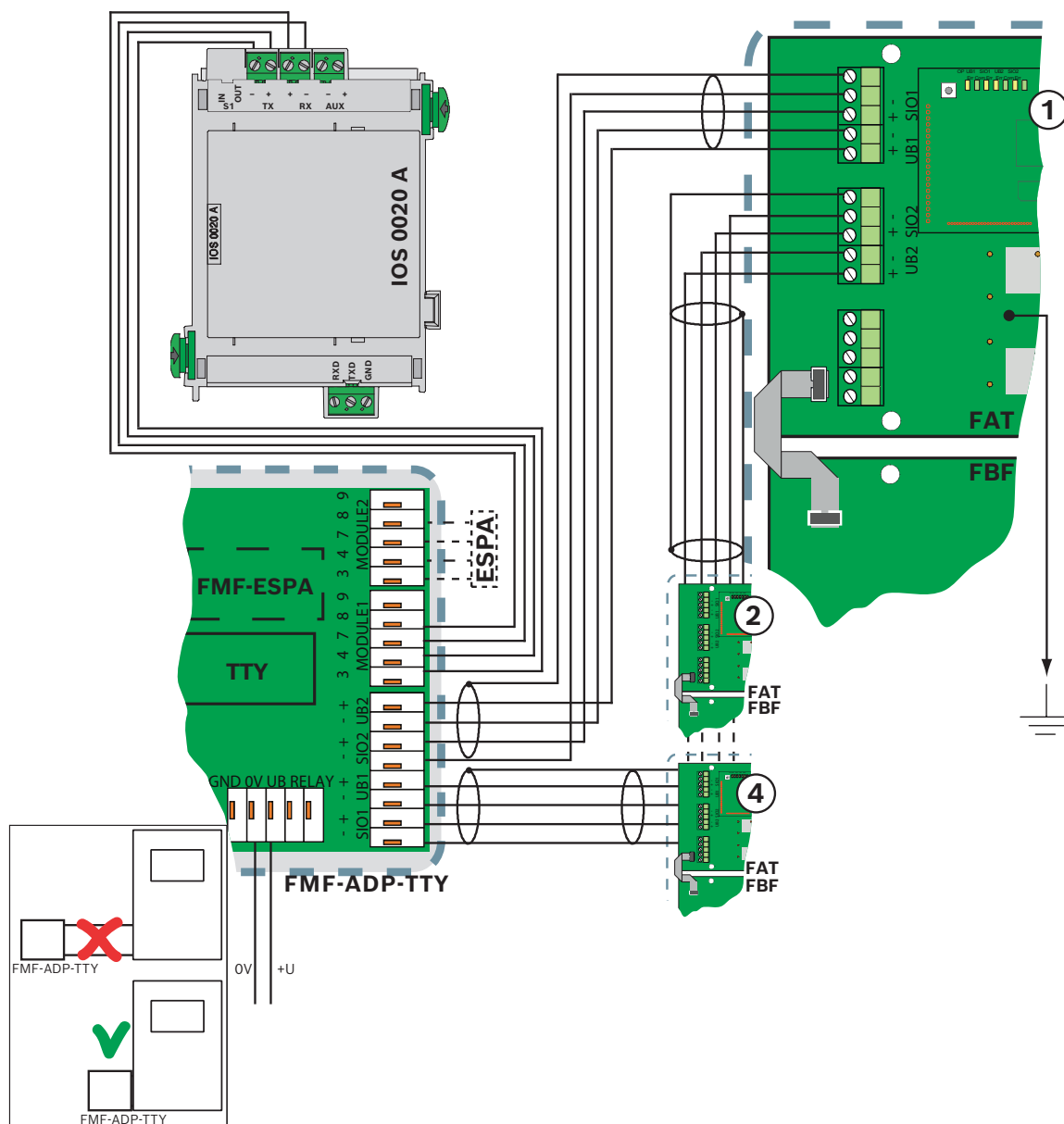




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



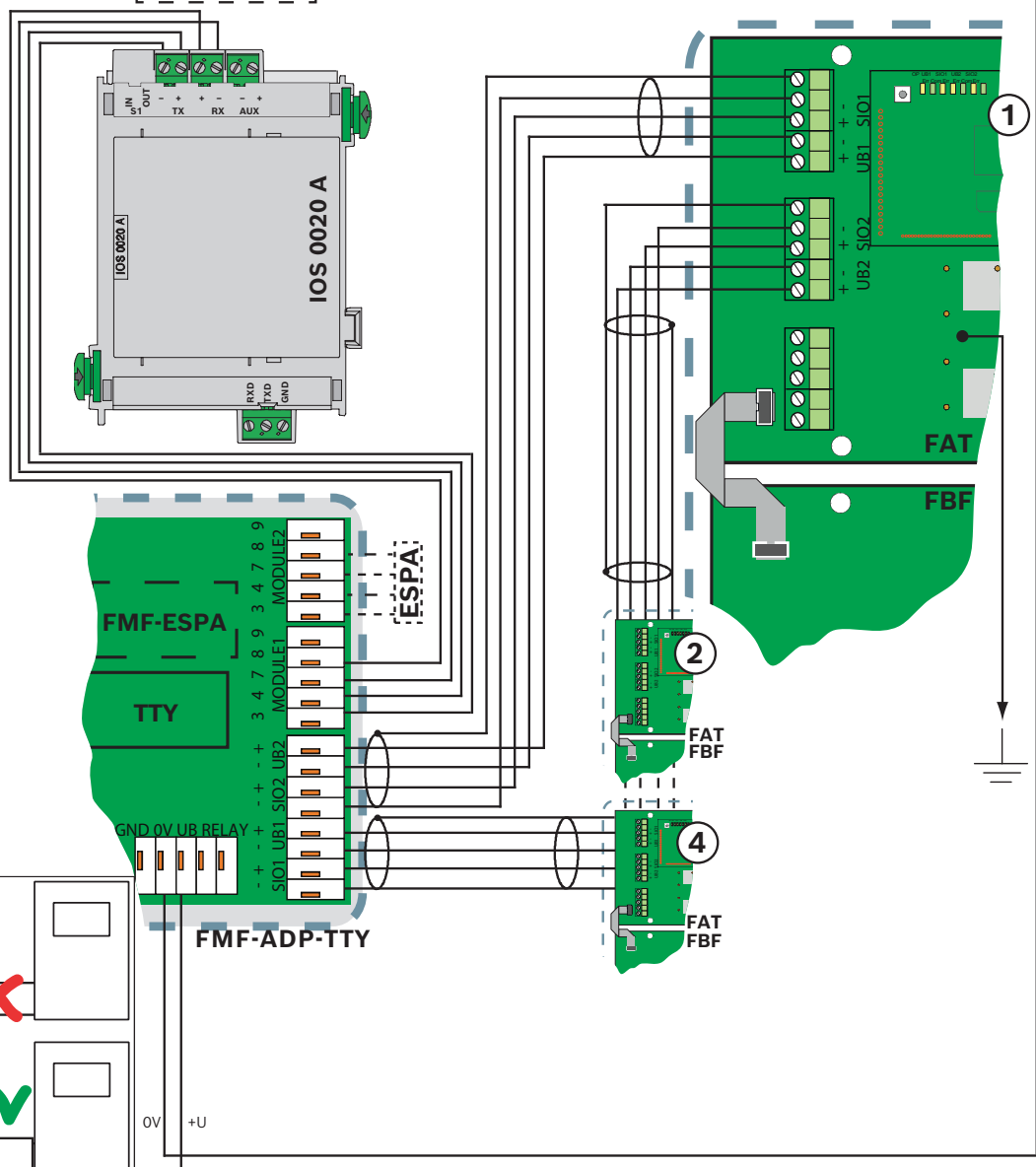


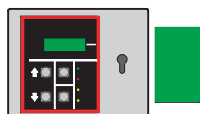
FAT4000 FBF4000 ADP4000

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

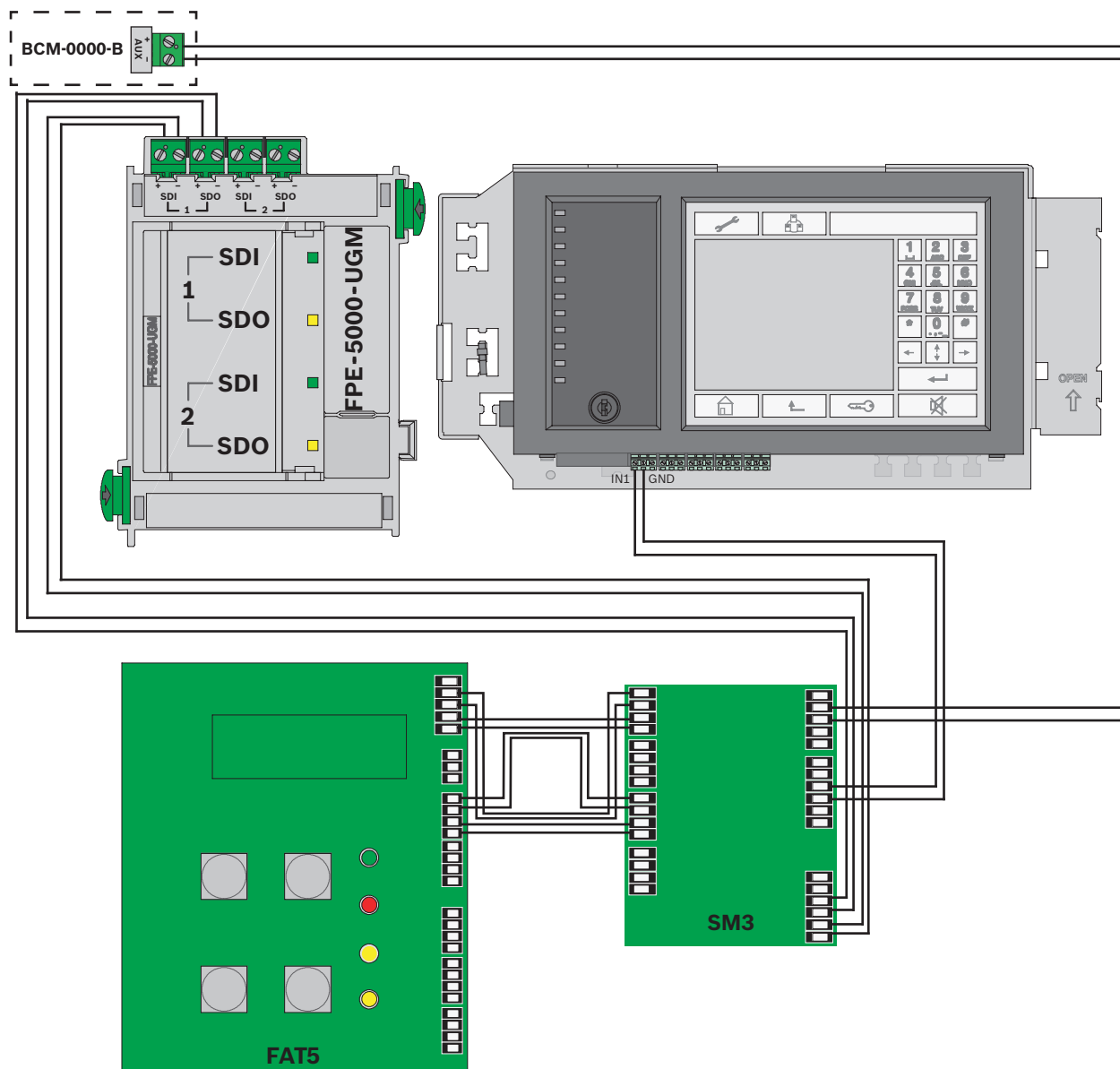
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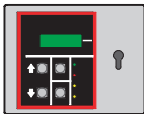
BCM-000-B



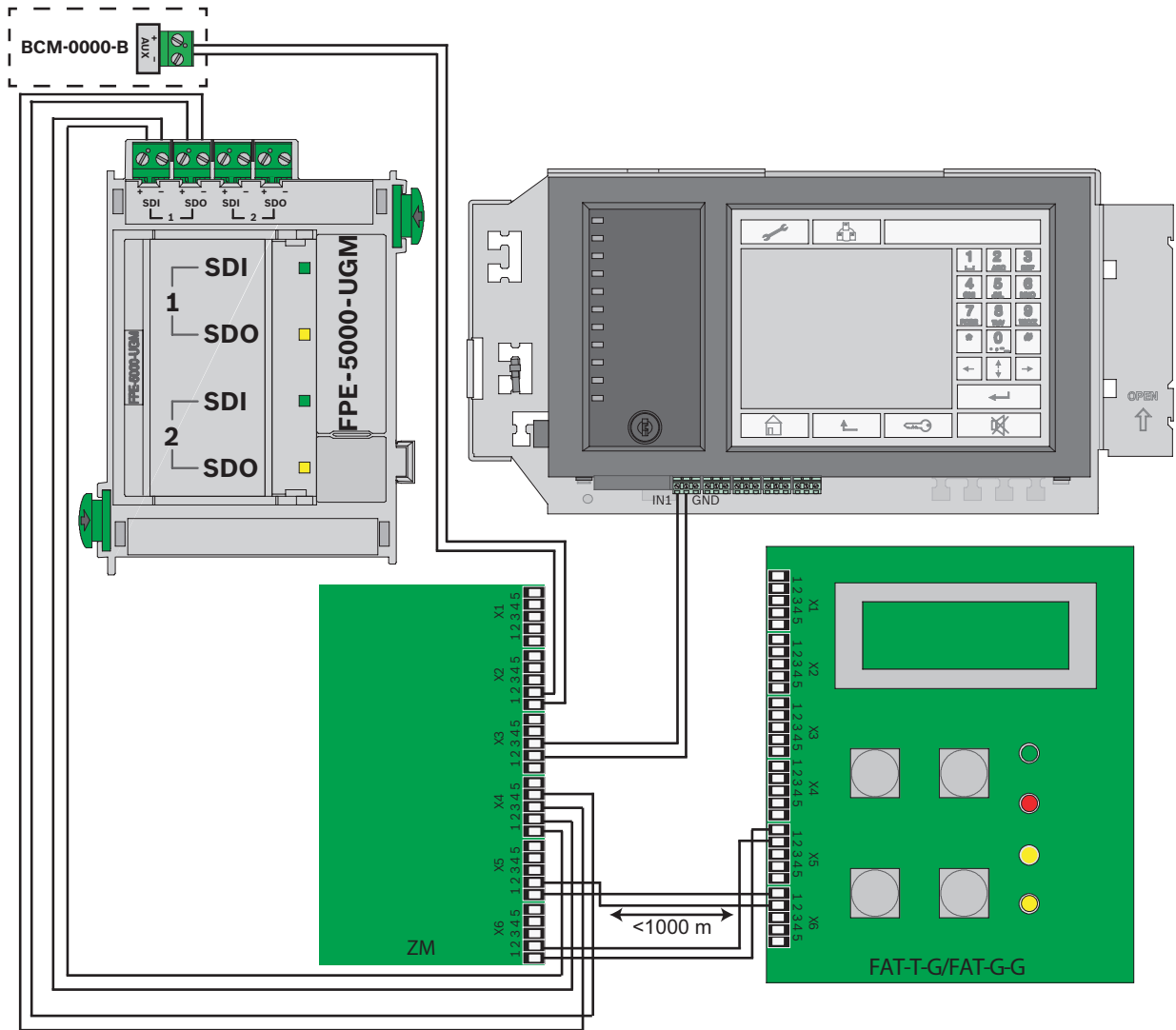


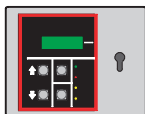
**FAT5
SM3**



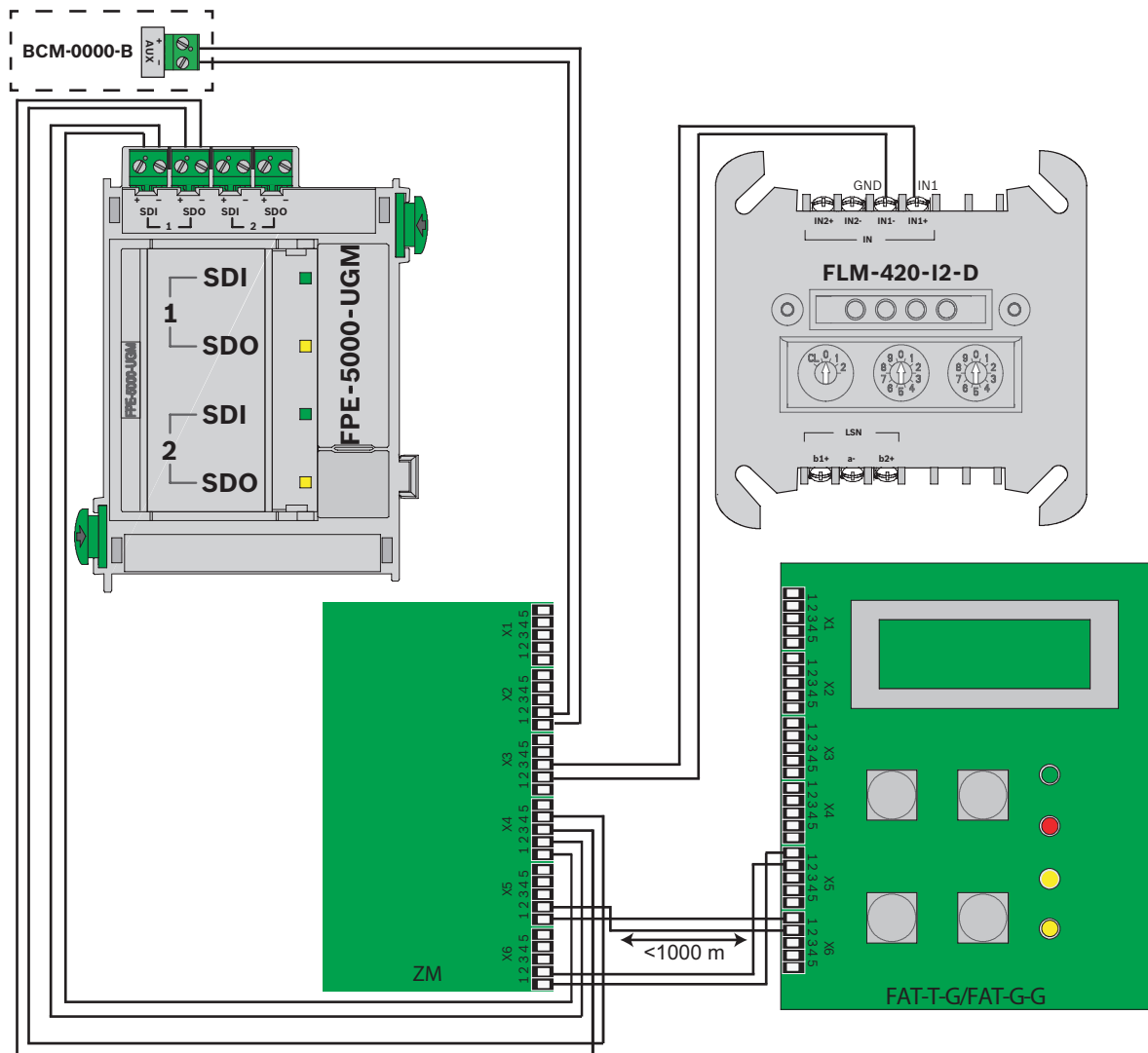


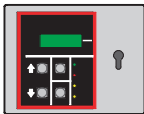
FAT-T-G/FAT-G-G
ZM



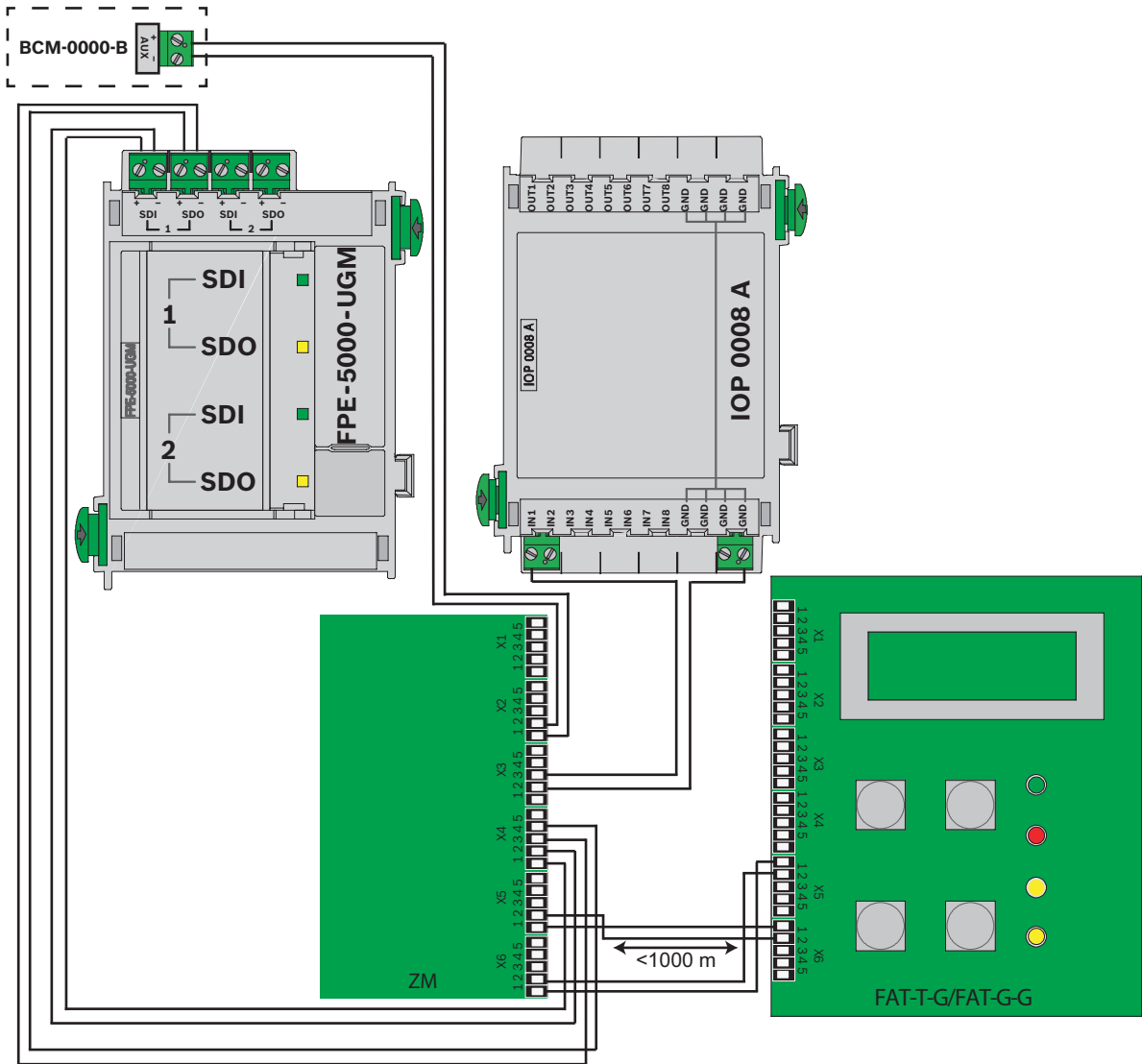


FAT-T-G/FAT-G-G
ZM





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



3.4

Koppler



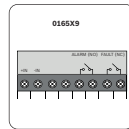
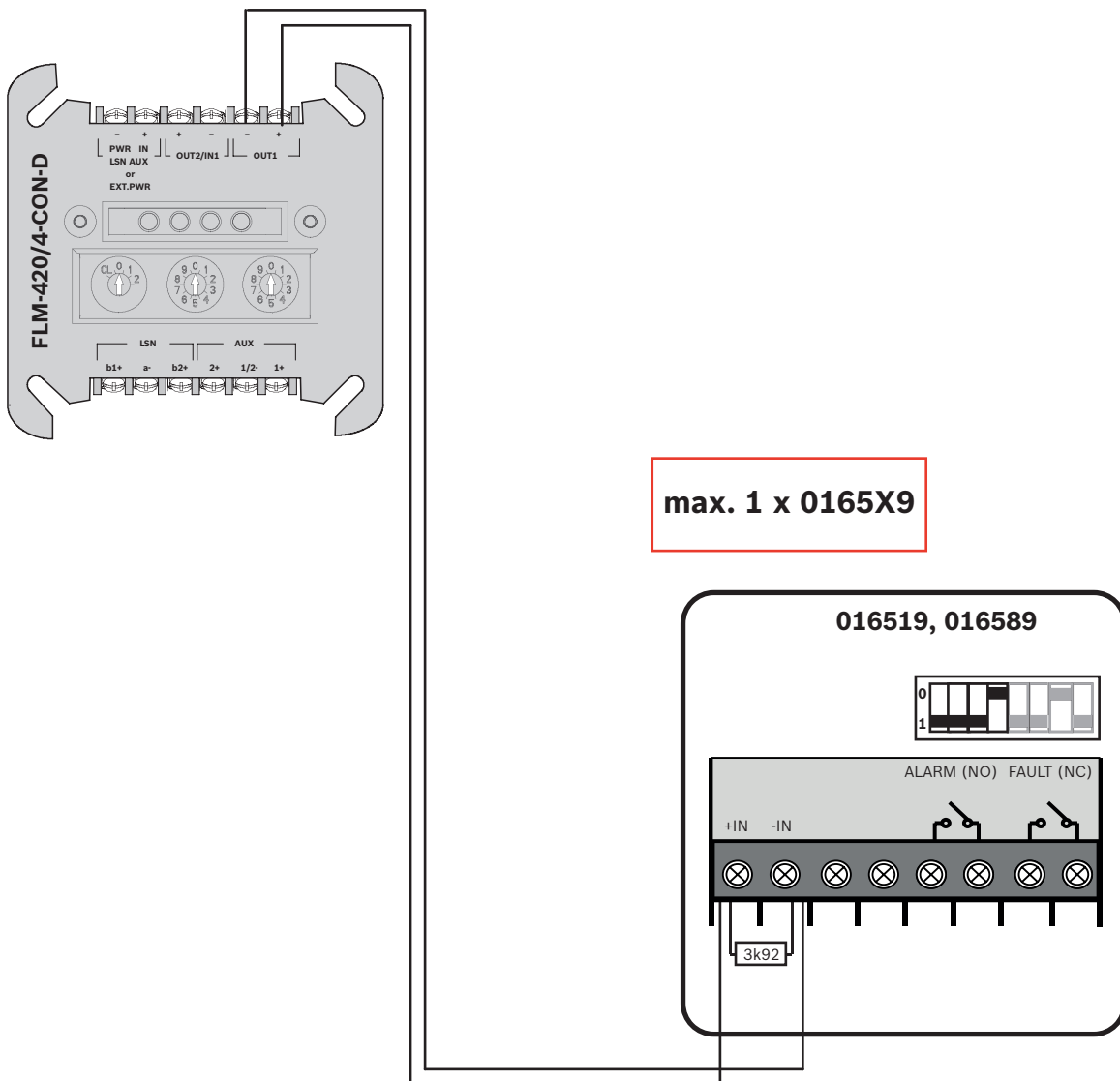
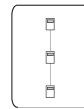
FLM-420/4-CON-D/S, Seite 138

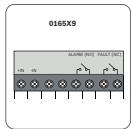
FLM-420-NAC-D/S, Seite 163

FLM-420-RLE-S, Seite 176

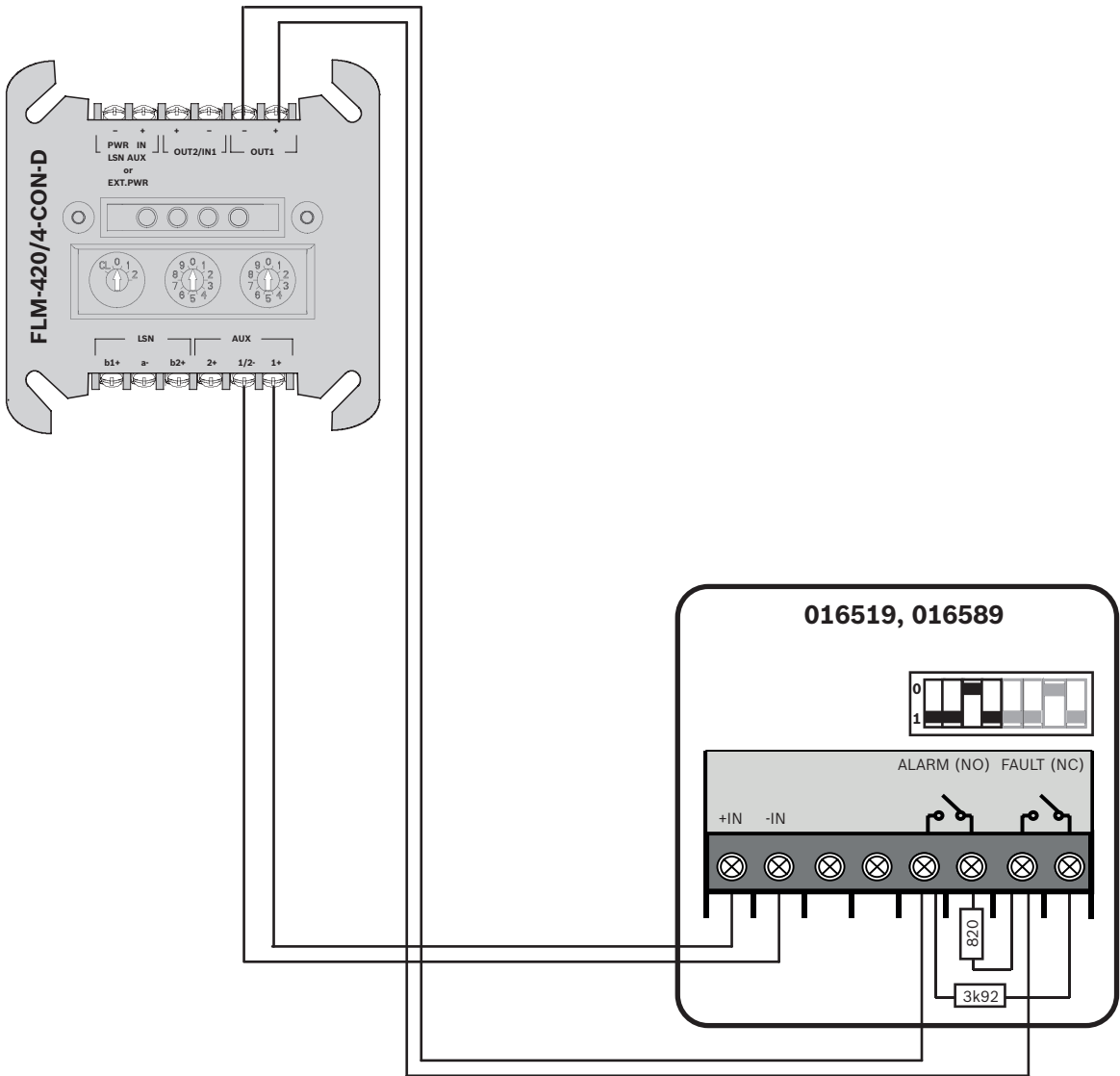
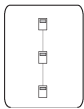
FLM-420-RLV1-E, Seite 177

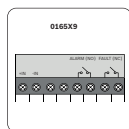
FLM-420-RLV8-S, Seite 178

**016519, 016589
IR3 Flame Detector**

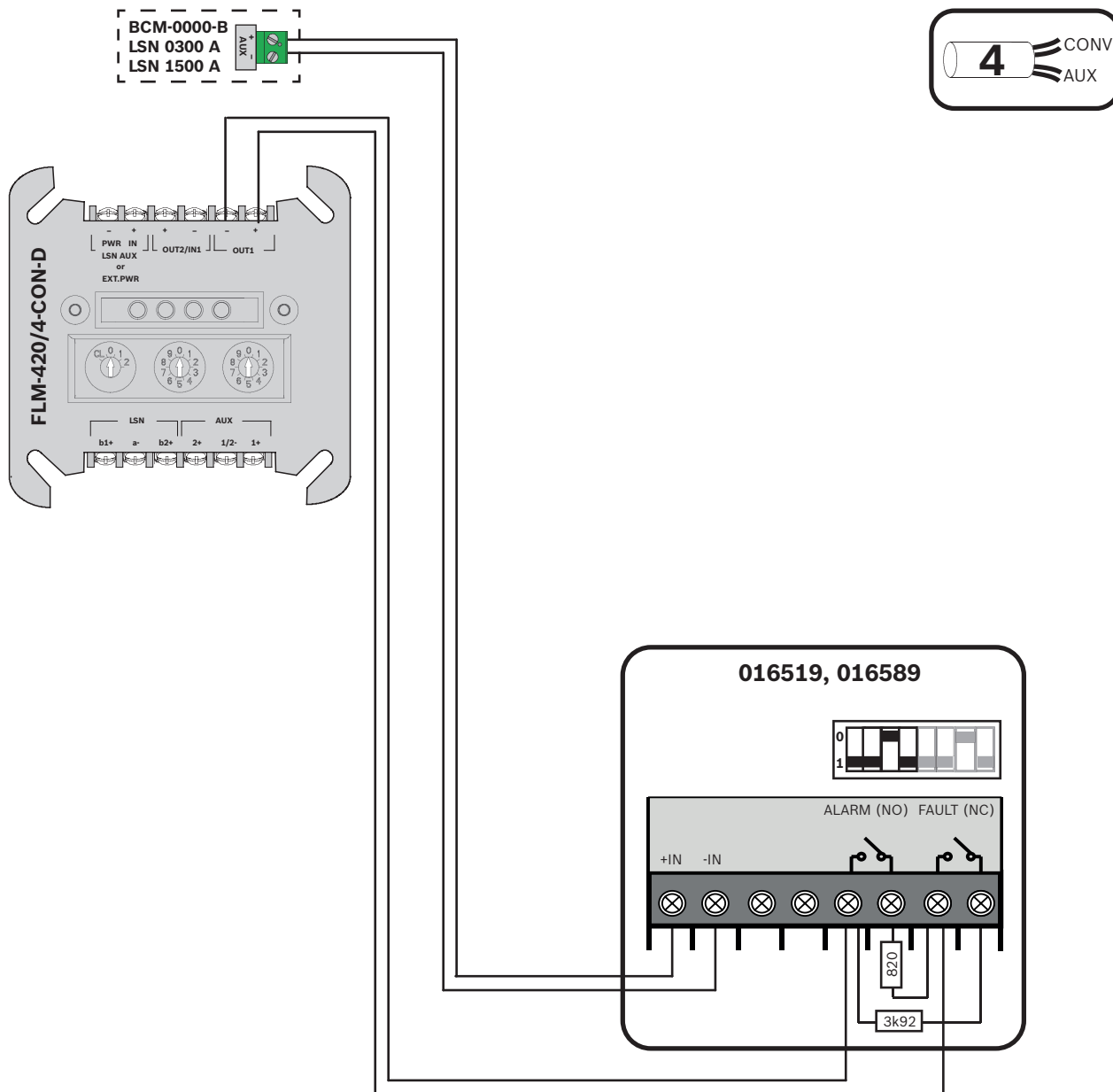
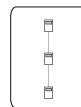


016519, 016589
IR3 Flame Detector



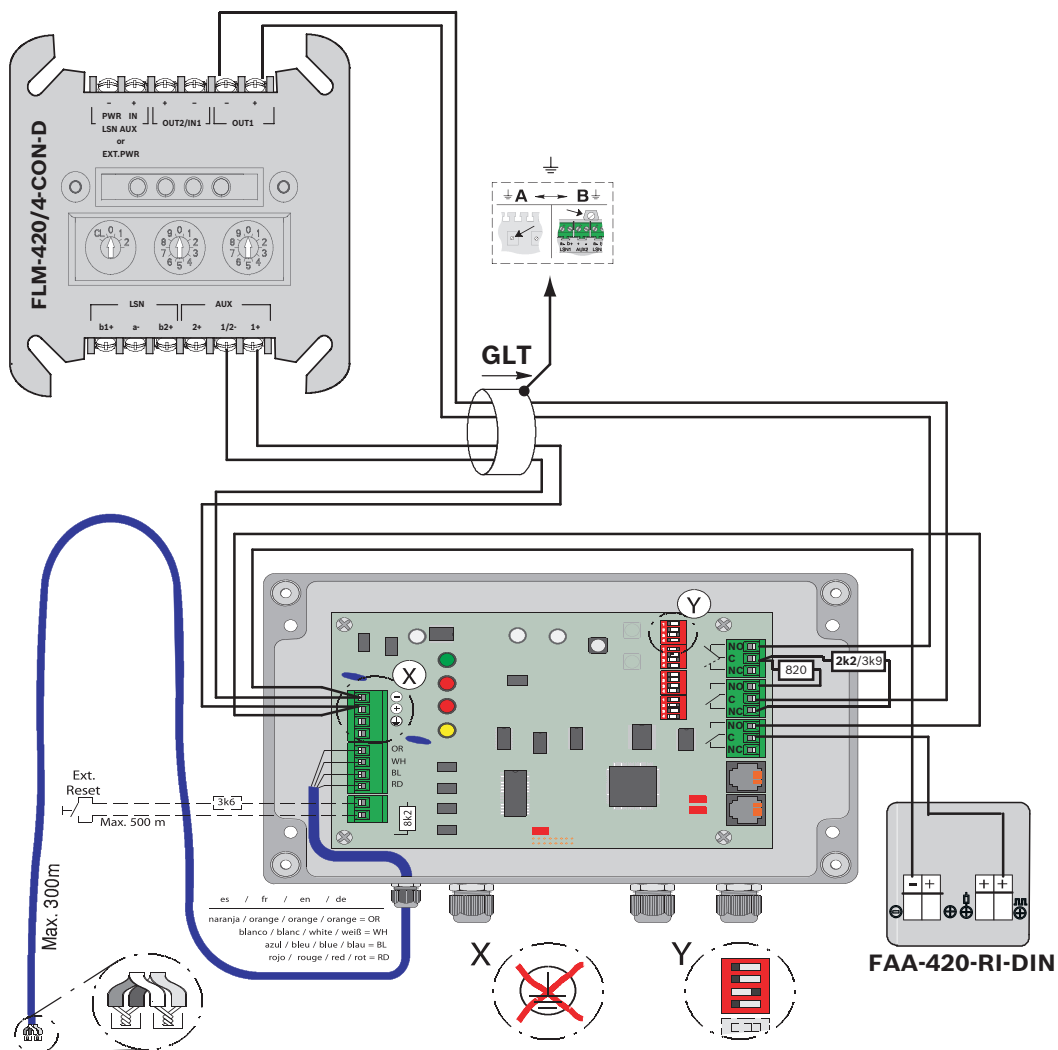
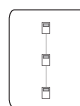


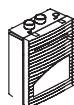
016519, 016589 IR3 Flame Detector





FCS-LWM-1

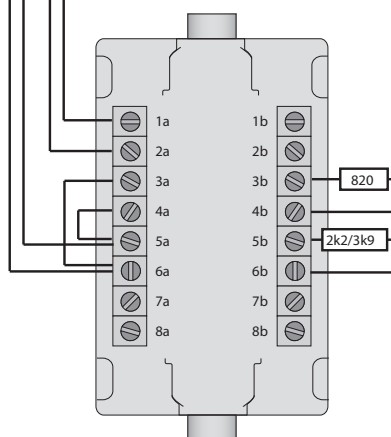
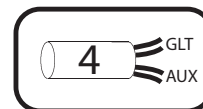
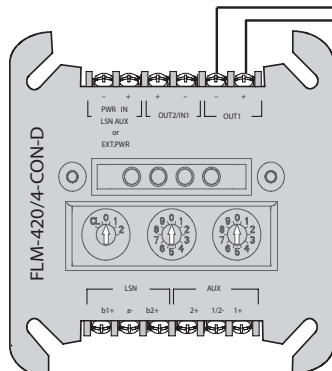


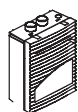


FCS-320-TM Series

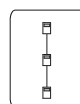


BCM-0000-B
LSN 0300 A
LSN 1500 A

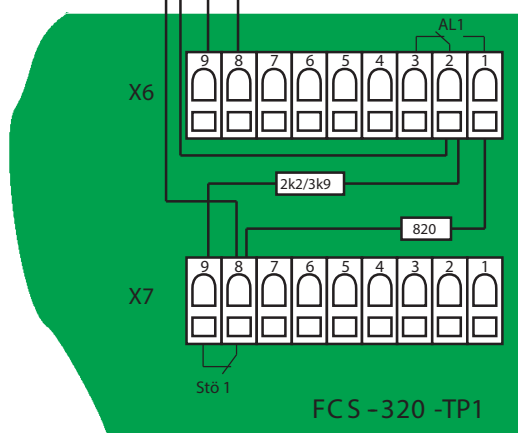
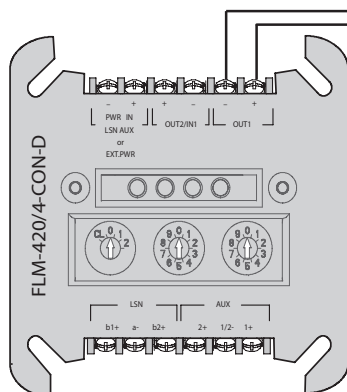
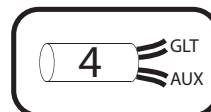


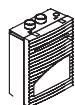


FCS-320-TP Series

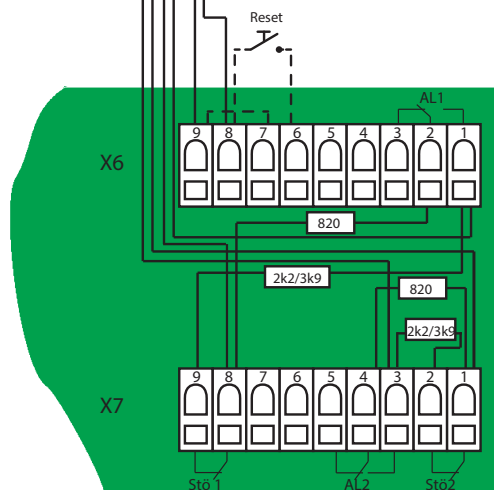
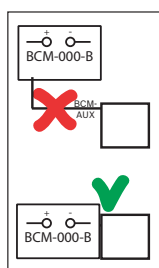
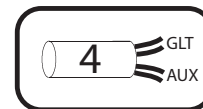
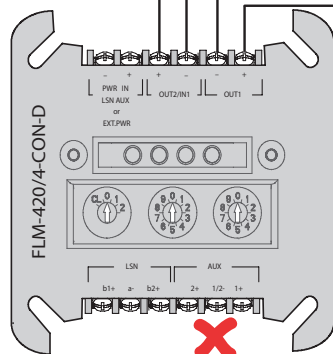
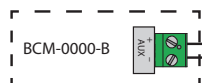


BCM-0000-B
LSN 0300 A
LSN 1500 A

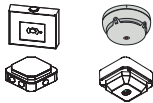




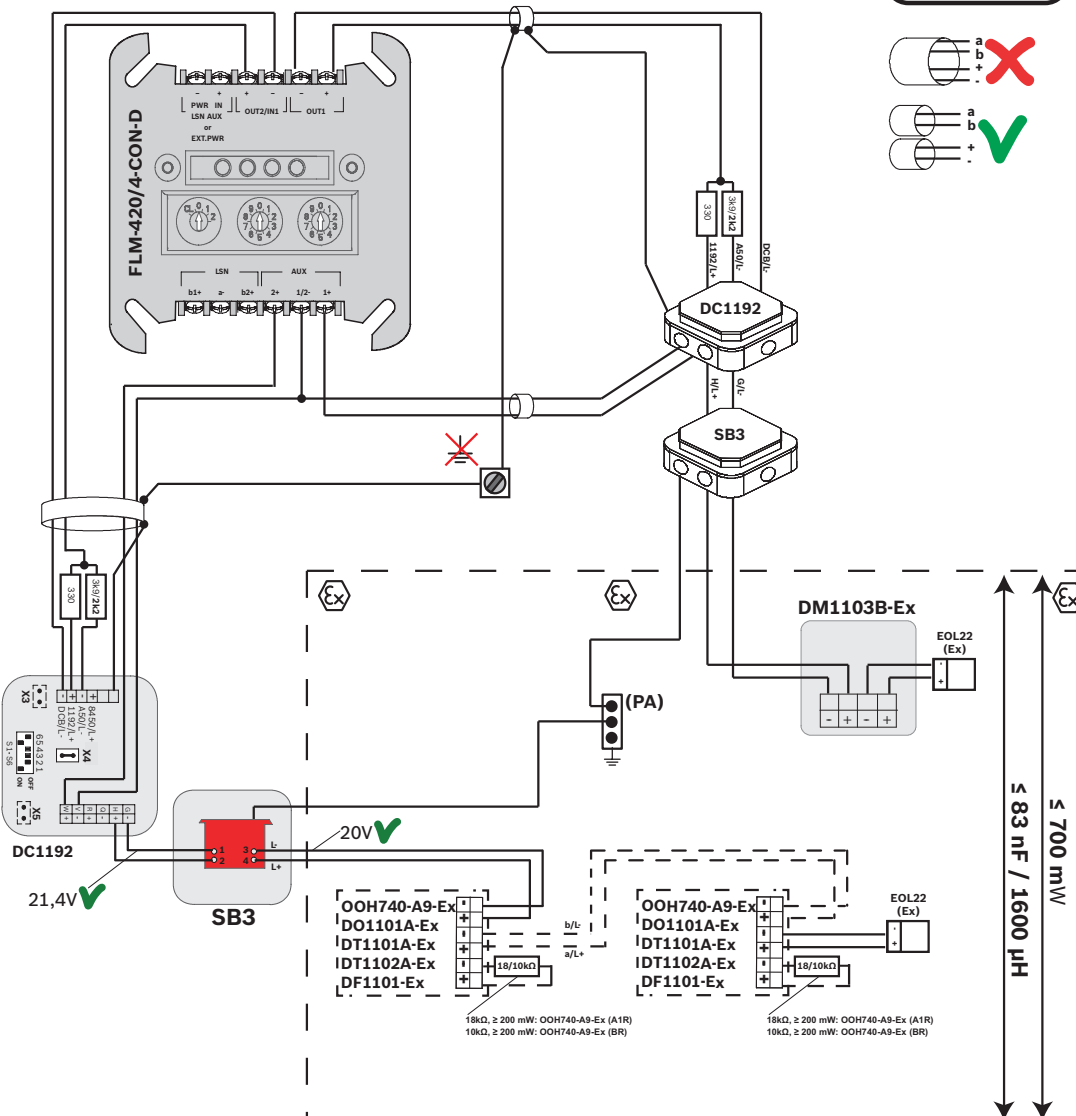
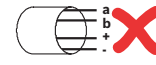
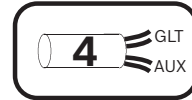
FCS-320-TP Series



FCS-320-TP2

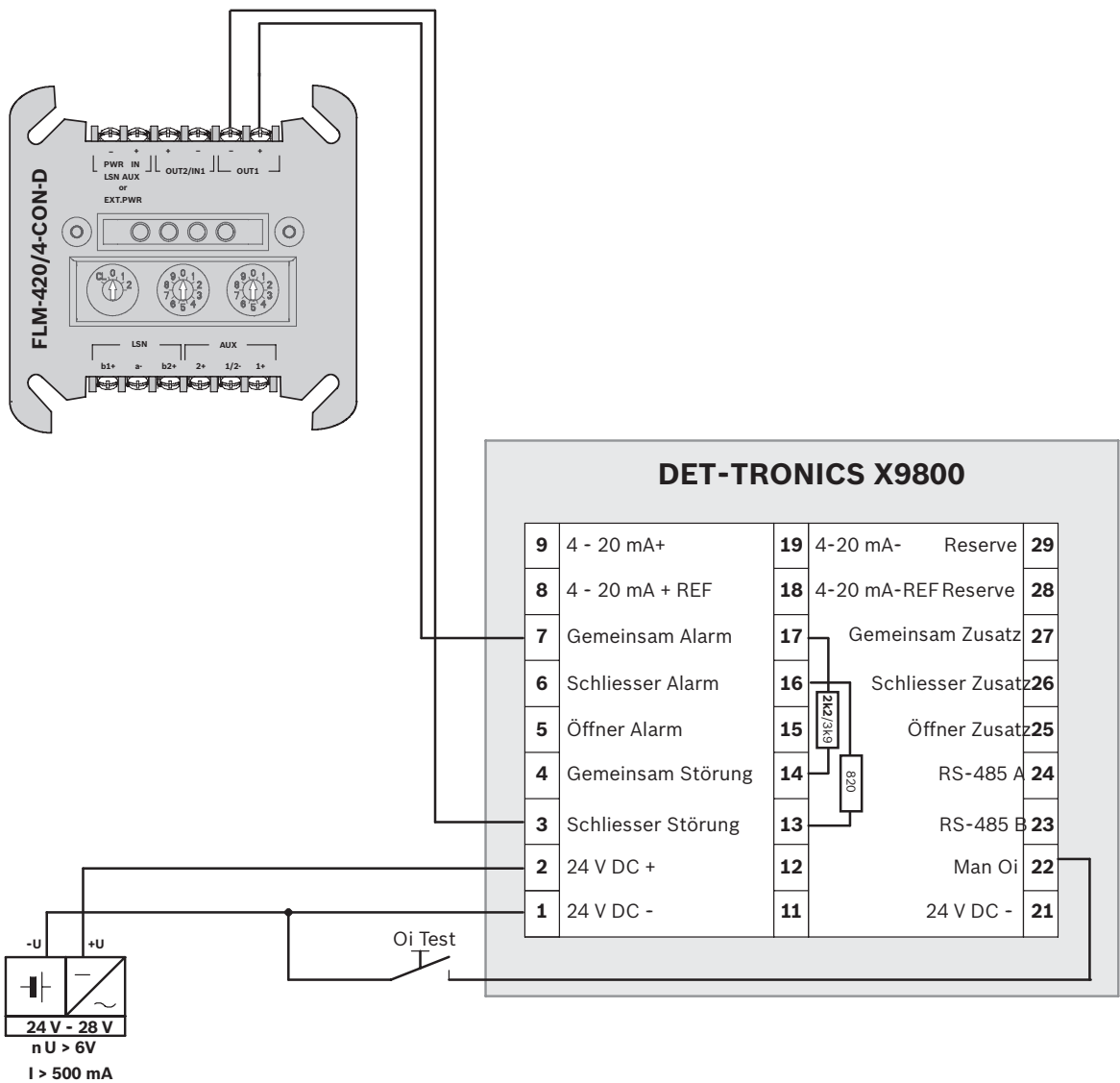
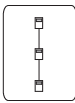


DC1192, SB3
OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex/DT1102A-Ex
DF1101-Ex
DM1103B-Ex



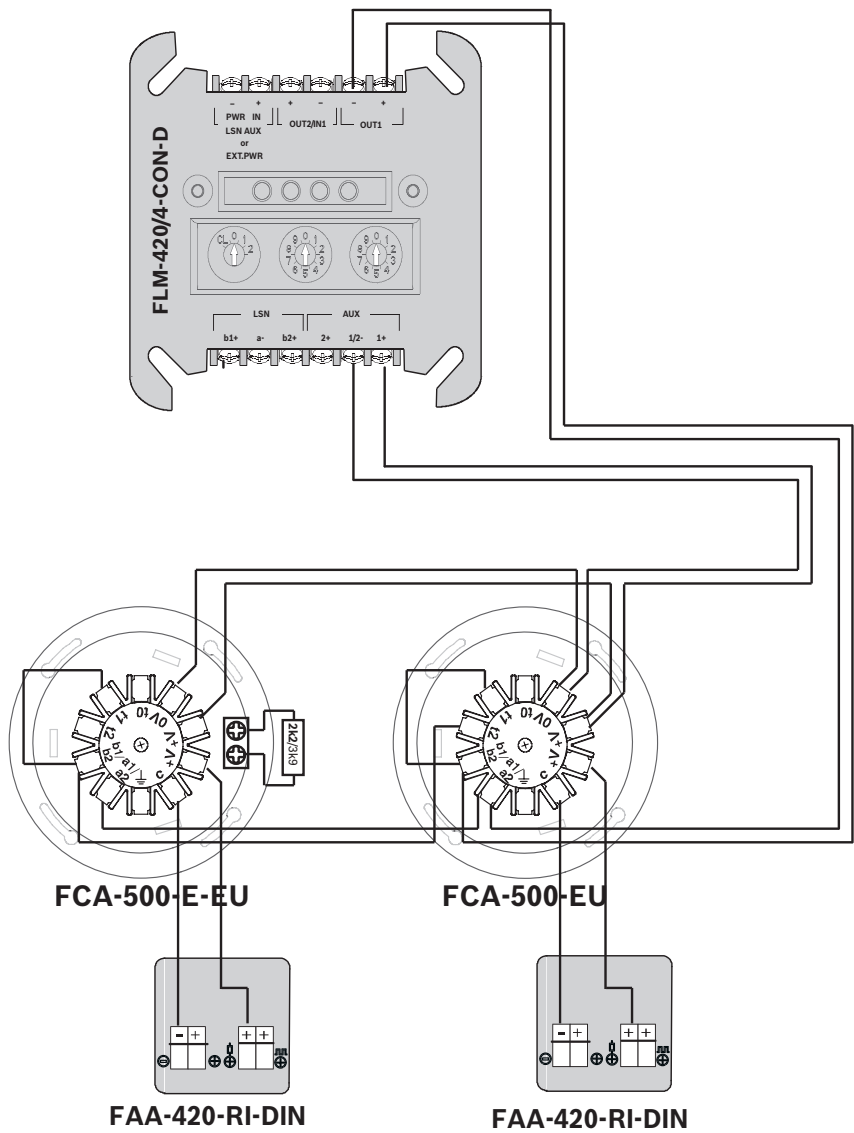


DET-TRONICS X9800



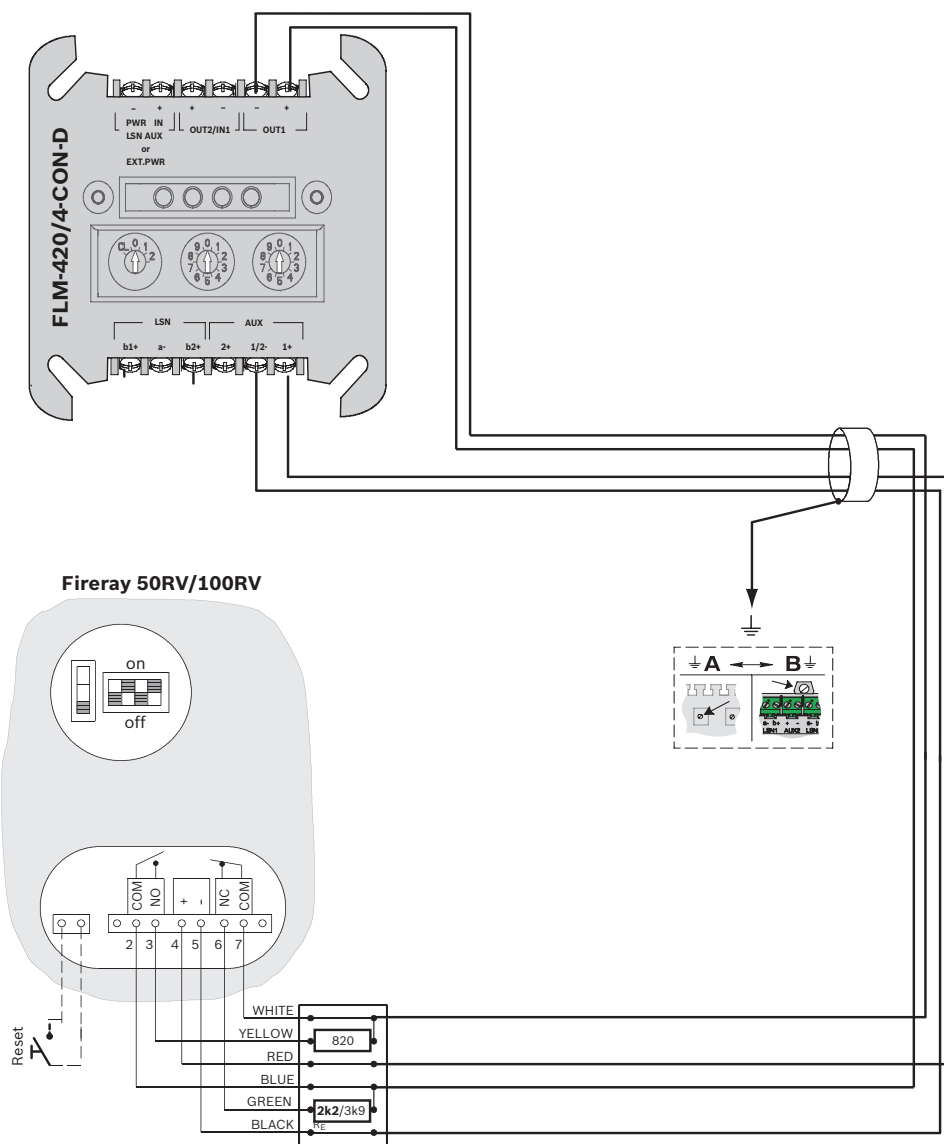


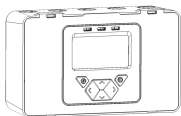
FCP-500





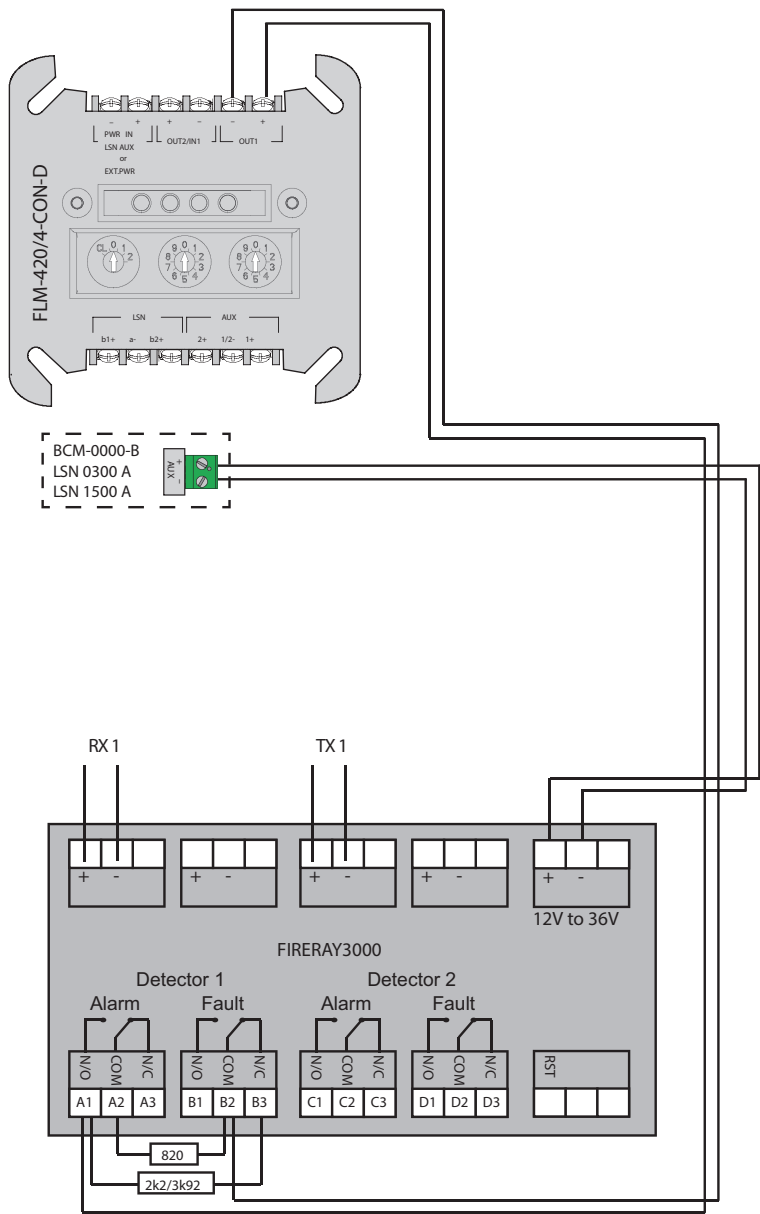
**Fireray 50RV
Fireray 100RV**

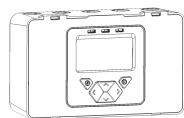




FIRERAY3000

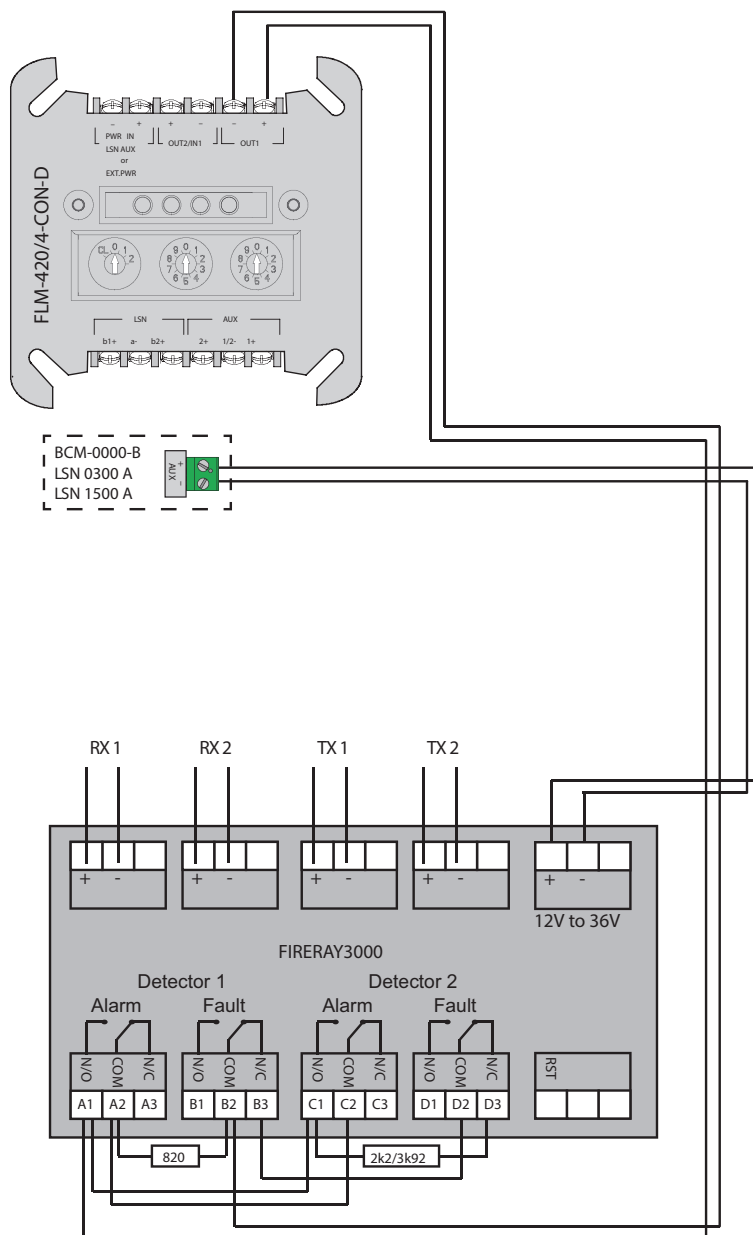
1 x

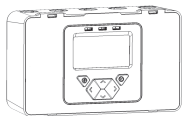




FIRERAY3000

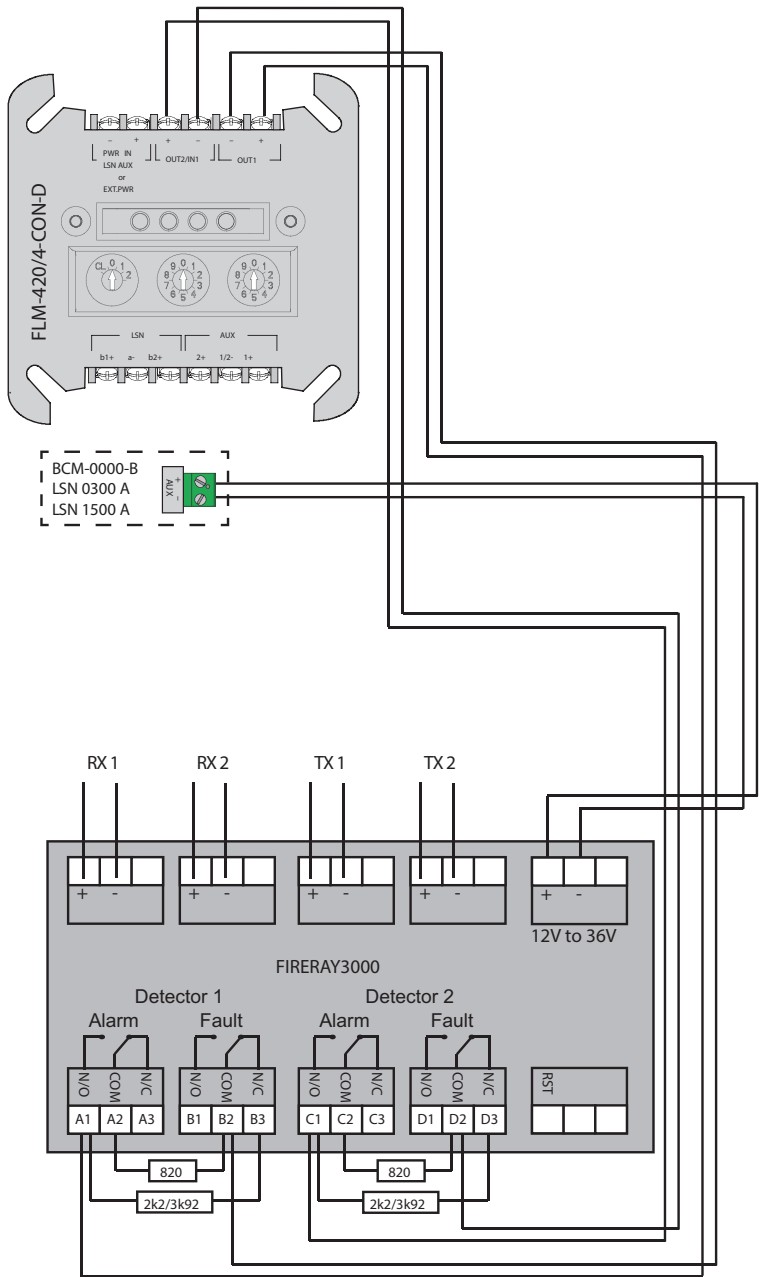
2 x





FIRERAY3000

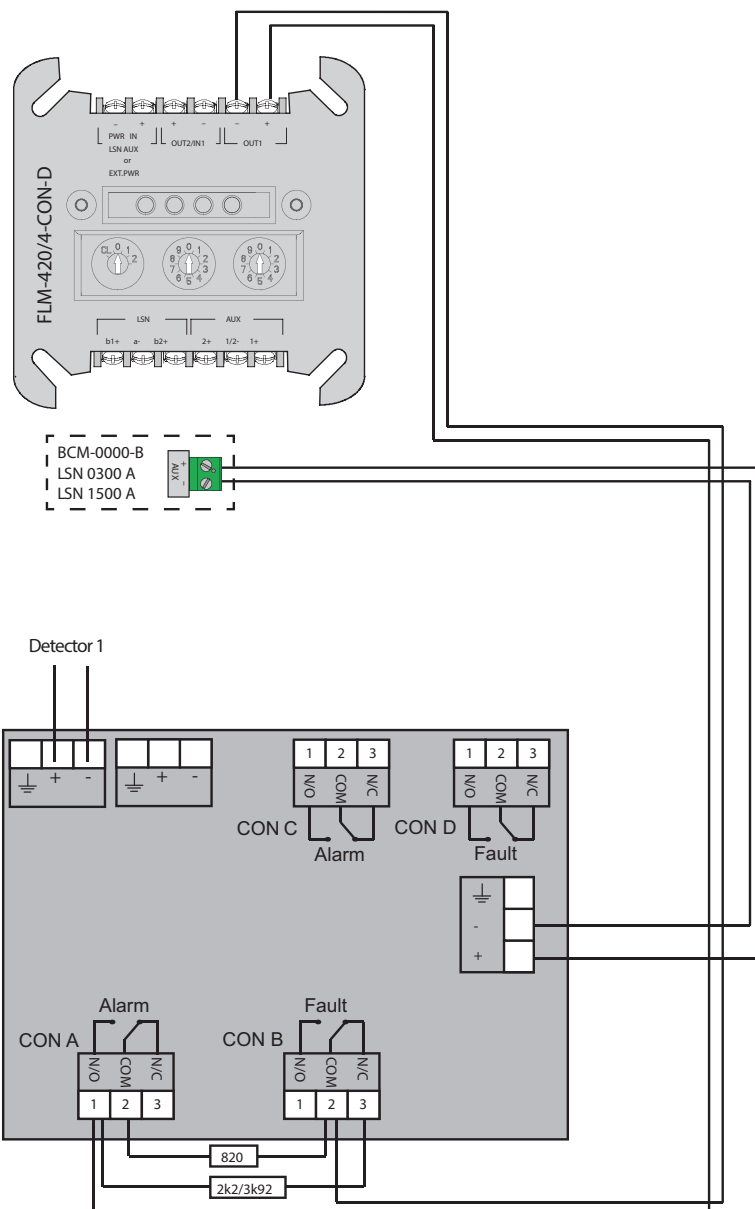
2 x  1+2





FIRERAY5000

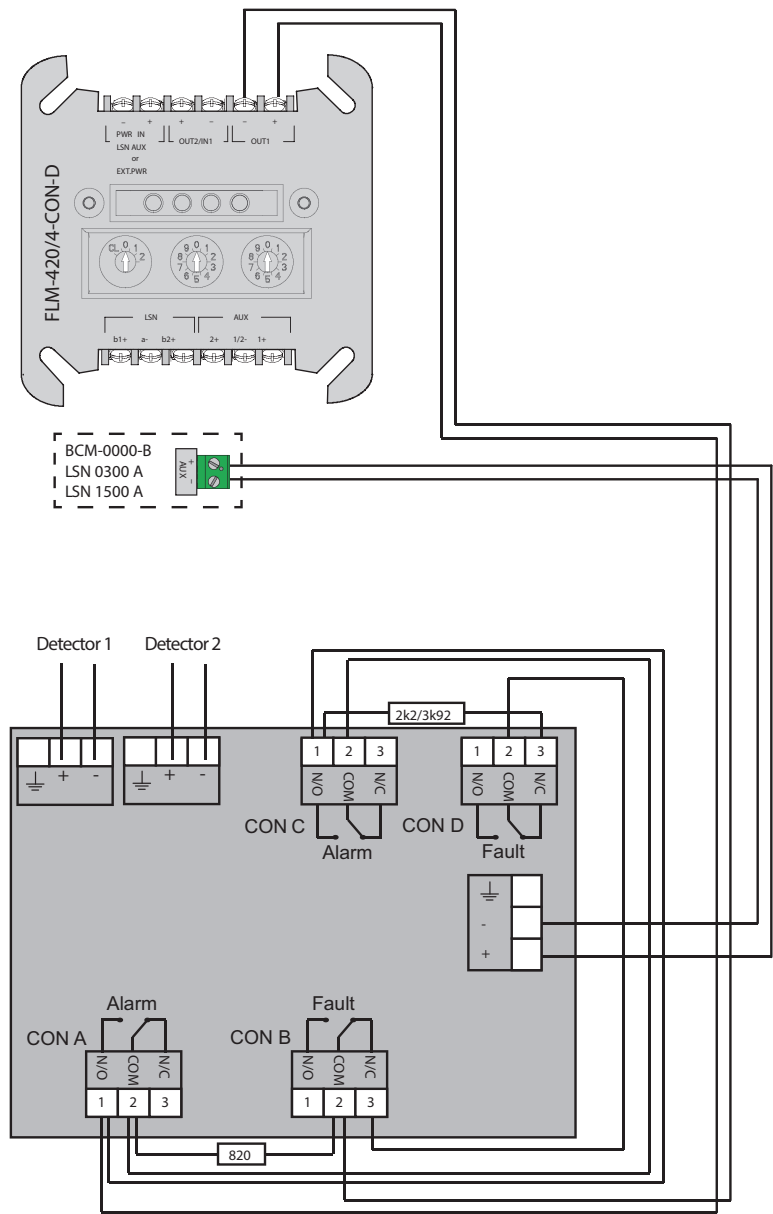
1 x





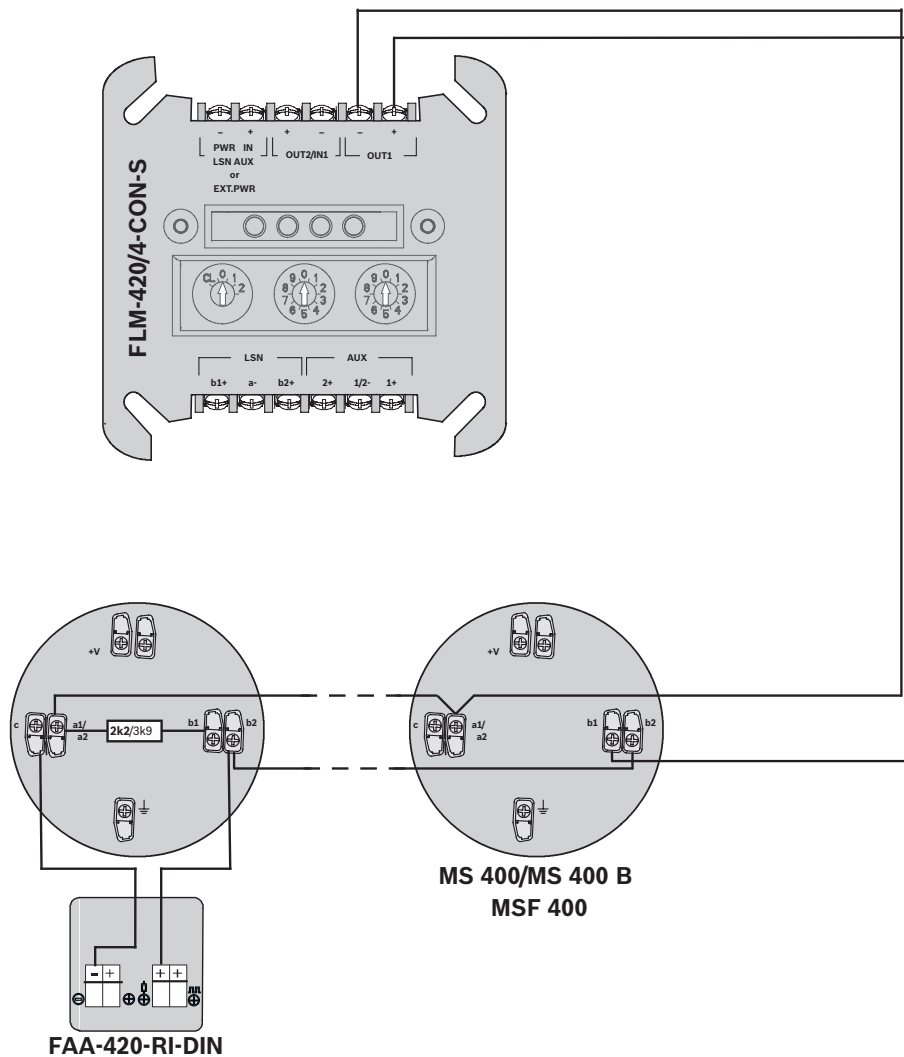
FIRERAY5000

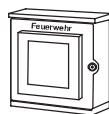
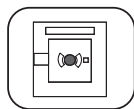
2 x OUT1



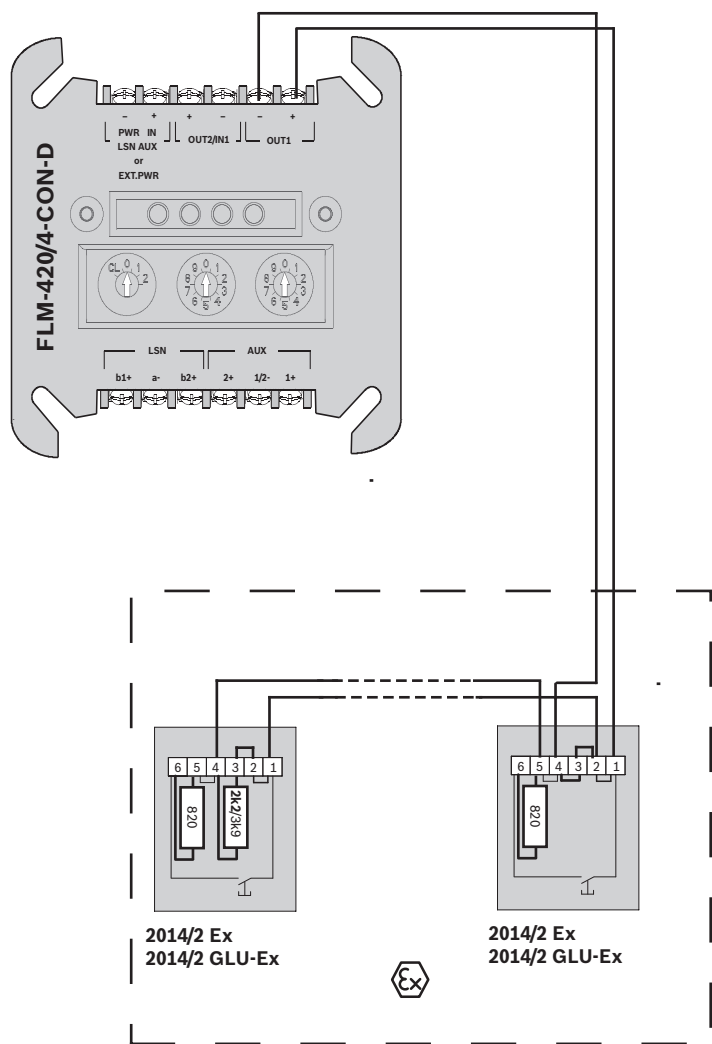
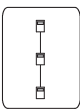


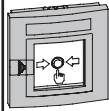
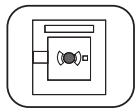
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
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 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



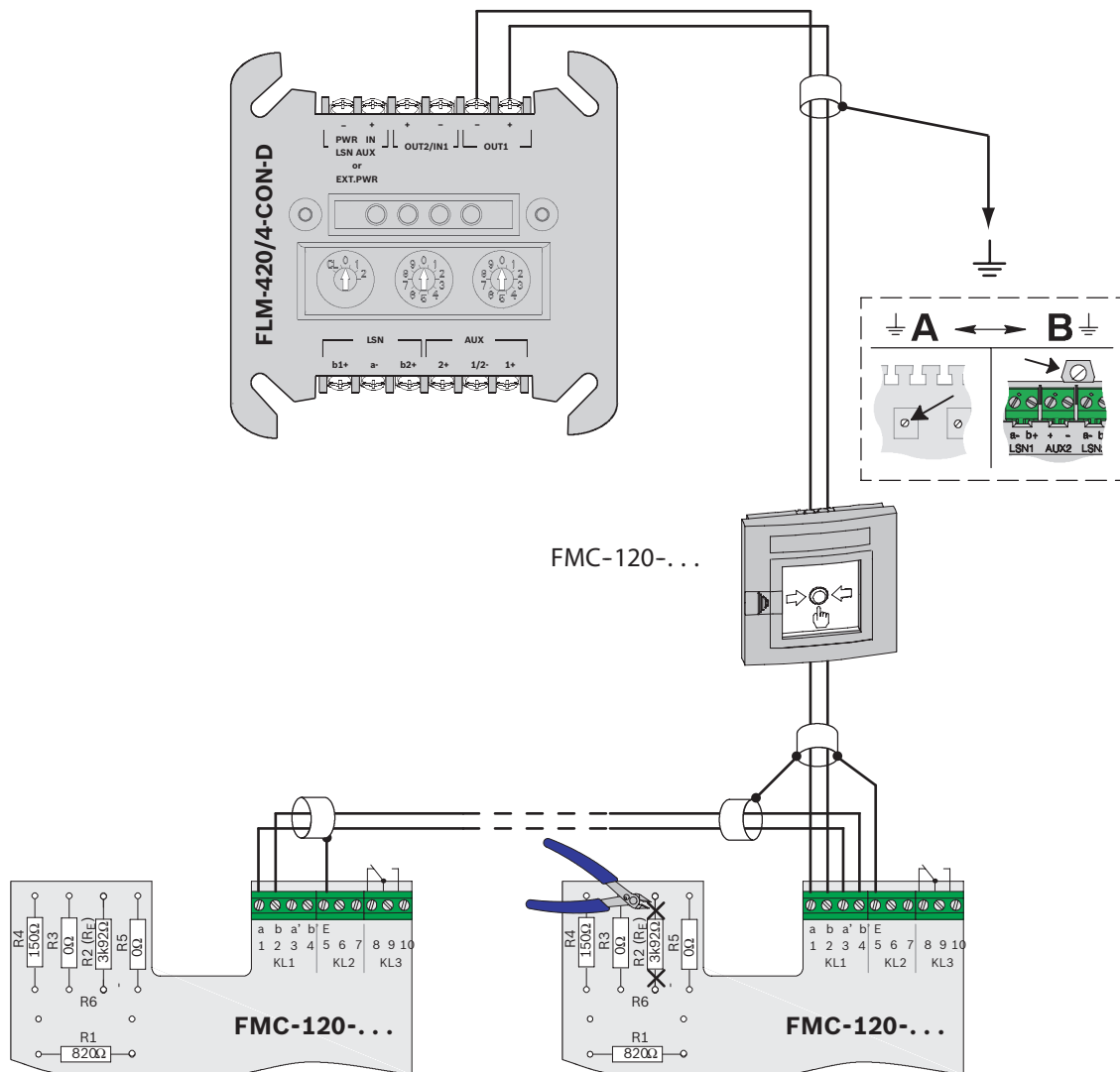
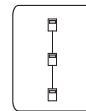


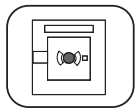
2014/2 Ex
2014/2 GLU-Ex



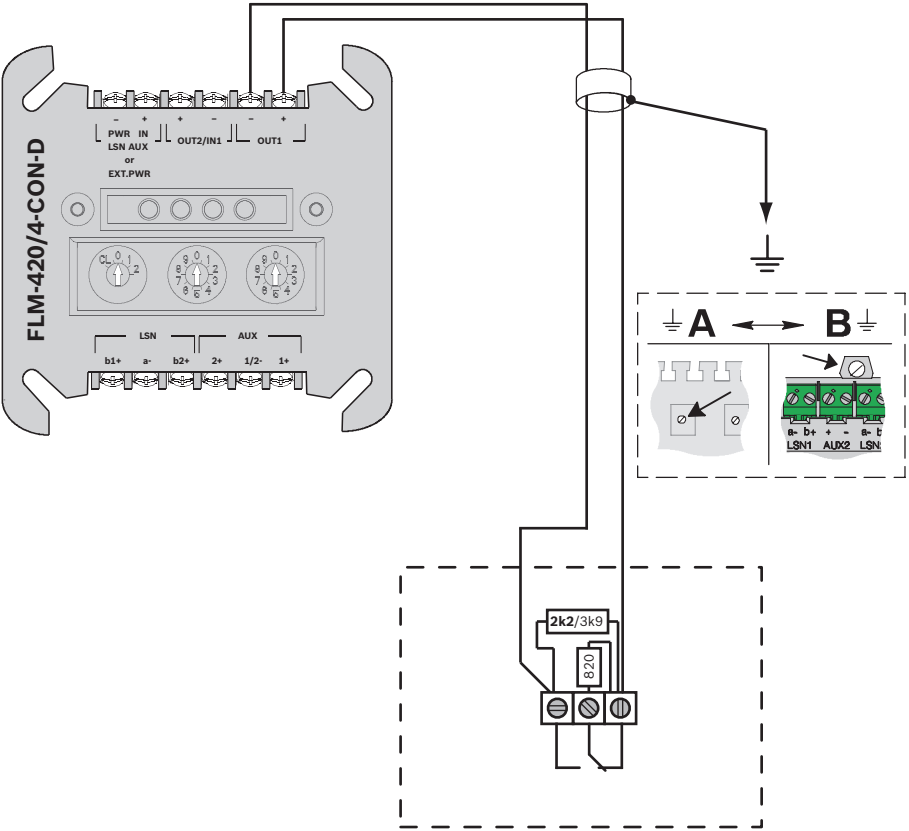
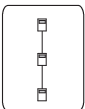


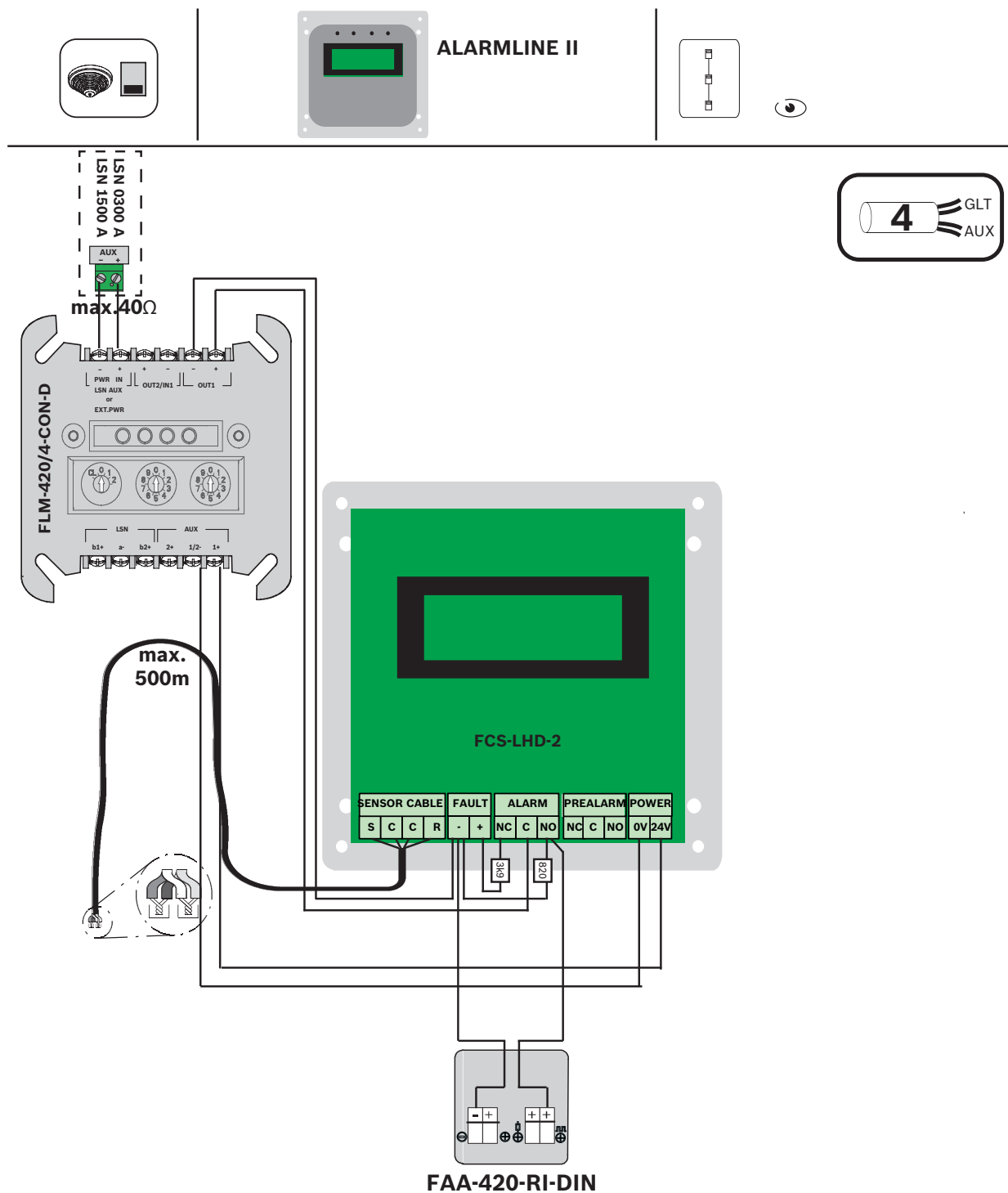
FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B

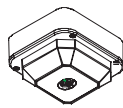




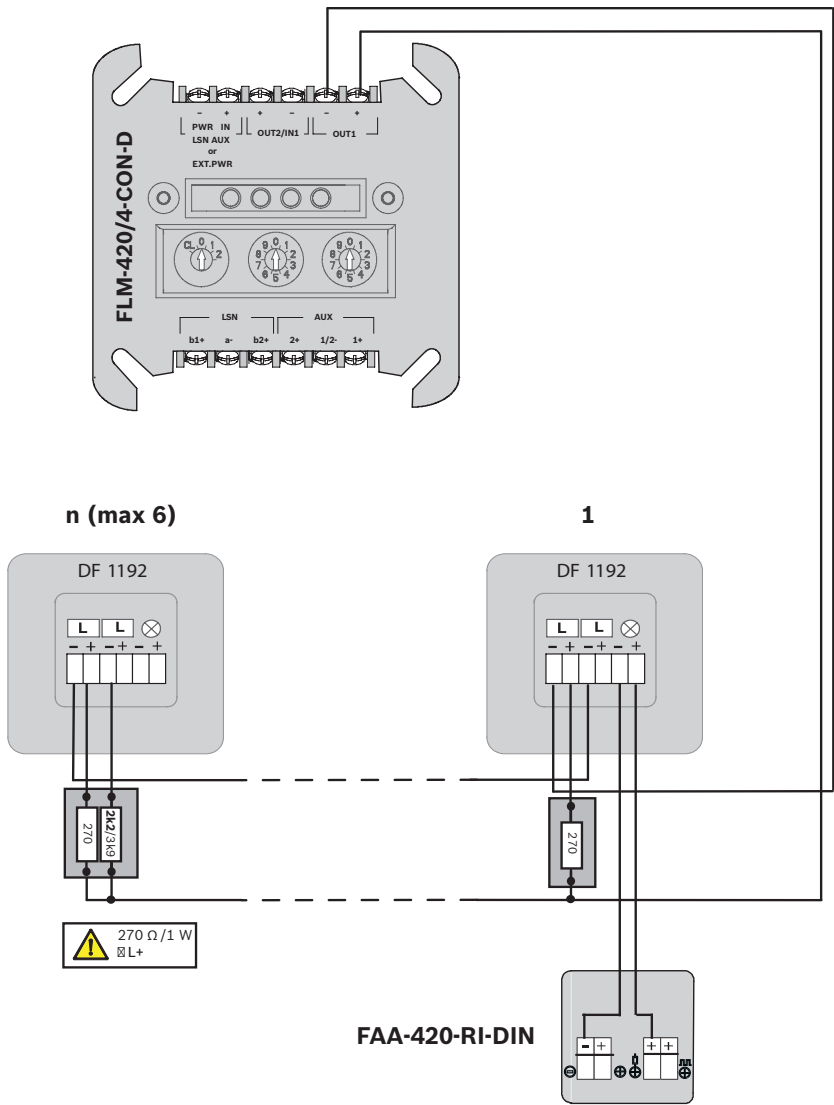
— / — NO

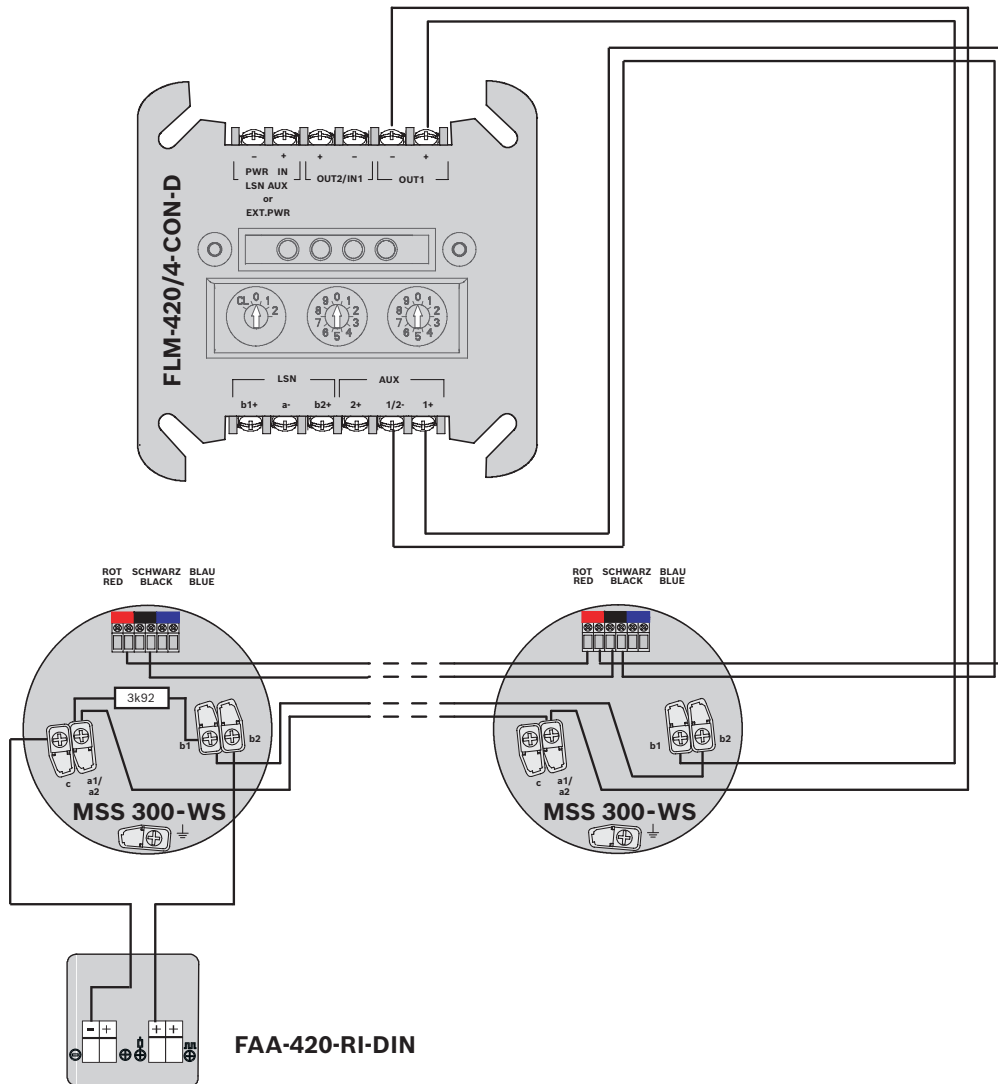


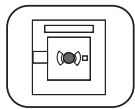




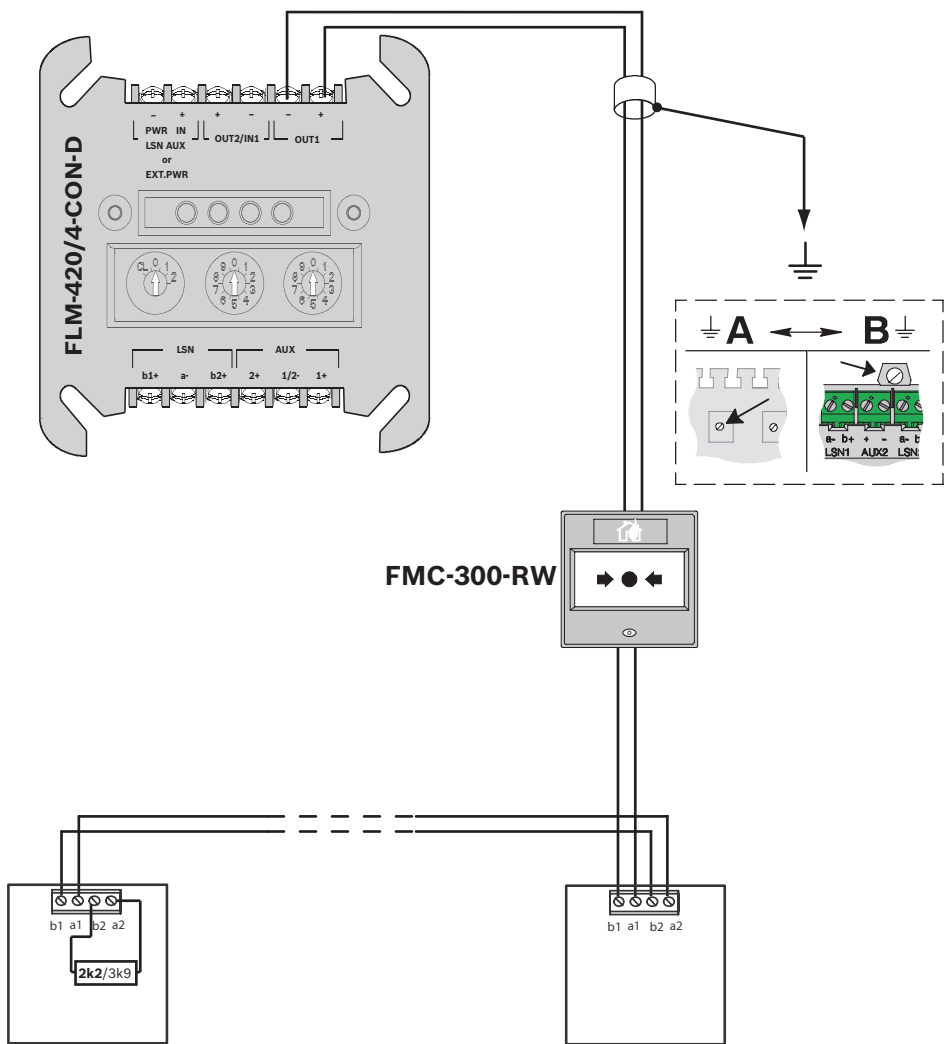
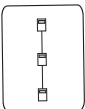
DF 1192



**MSS 300-WS**

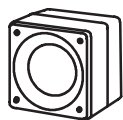


FMC-300-RW

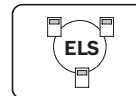


3.4.2

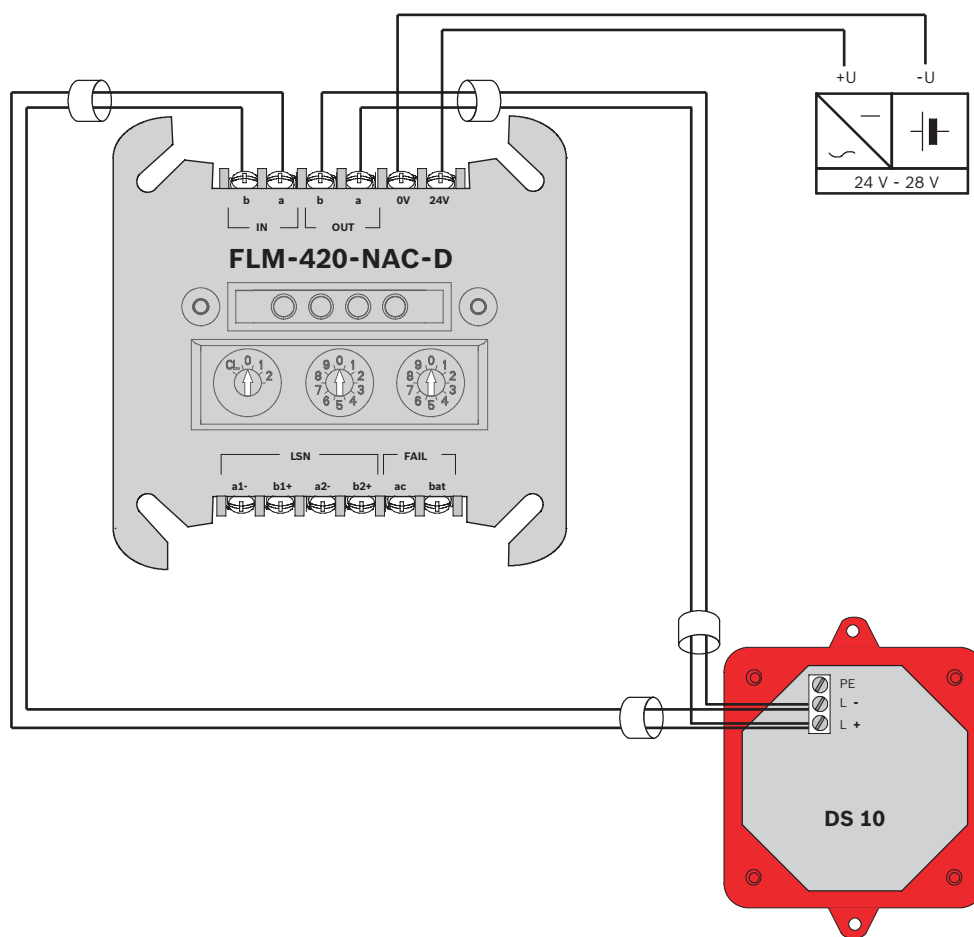
FLM-420-NAC-D/S

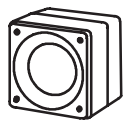


DS 10

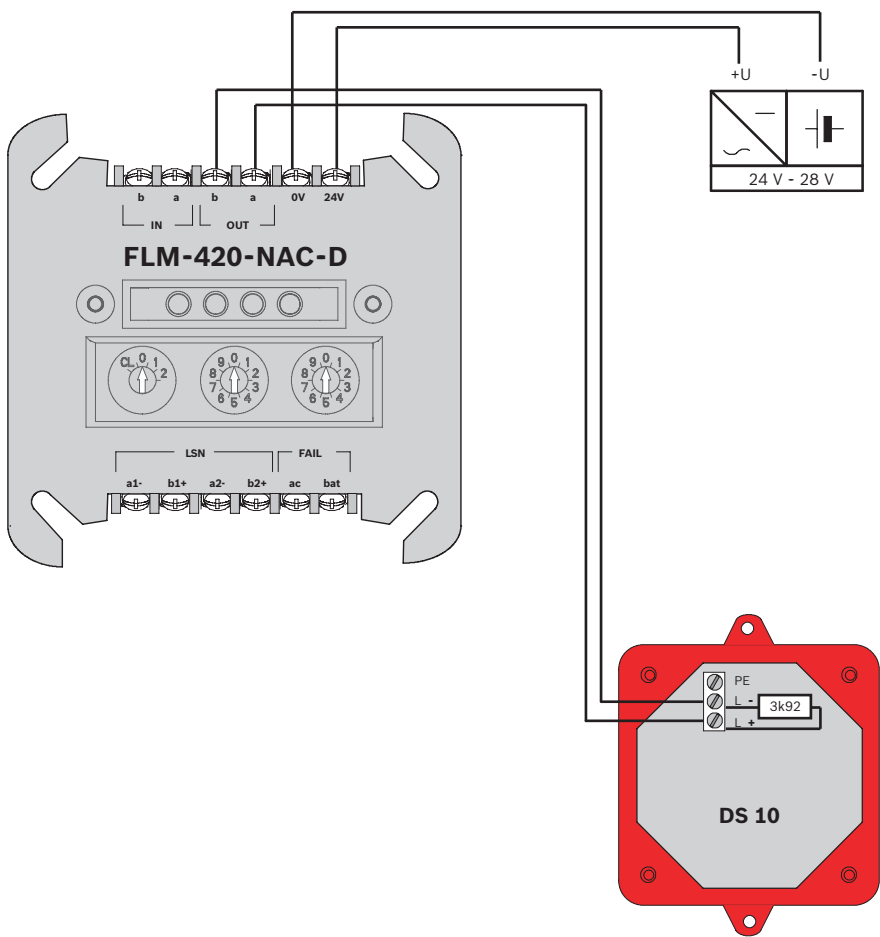
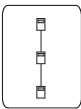


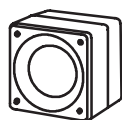
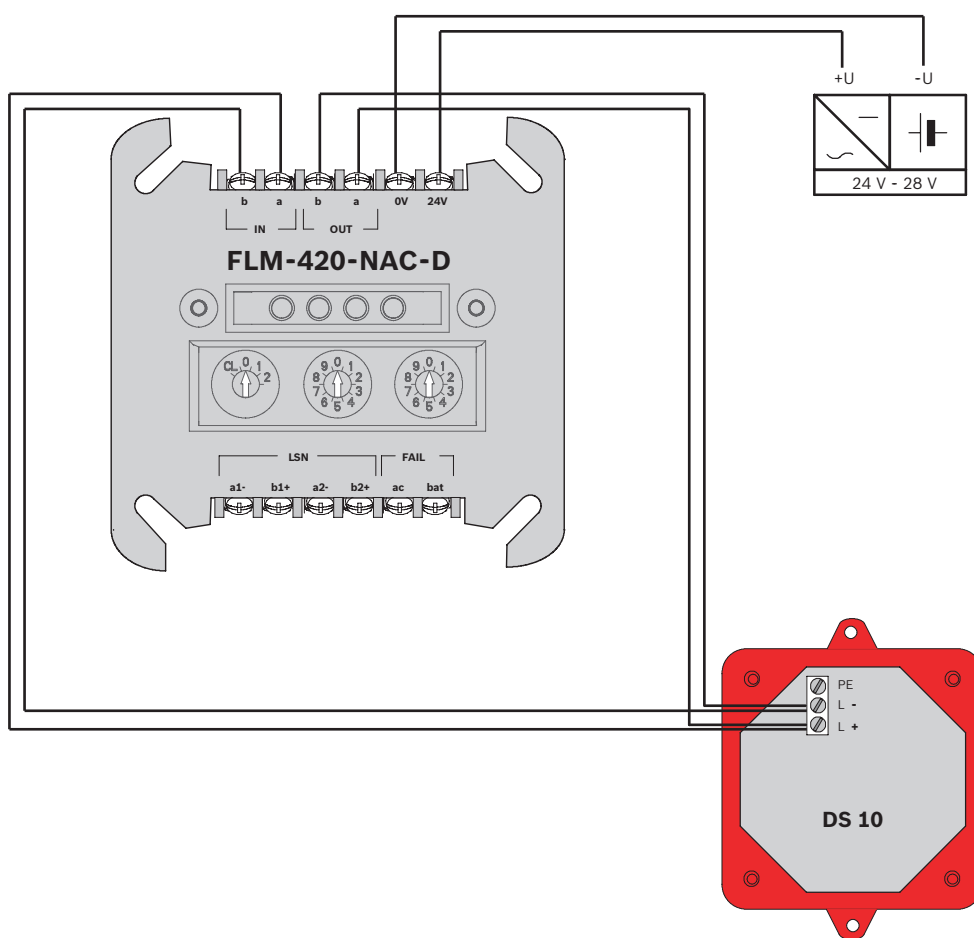
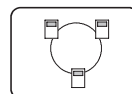
VdS 2489





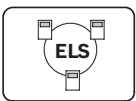
DS 10



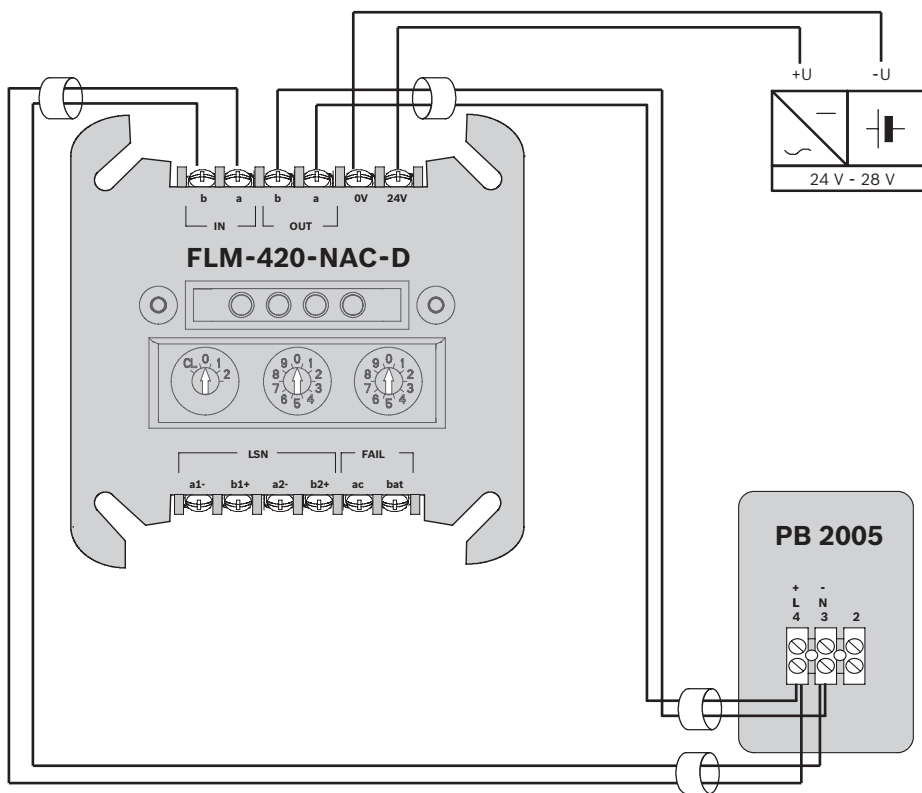
**DS 10**

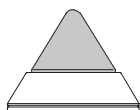
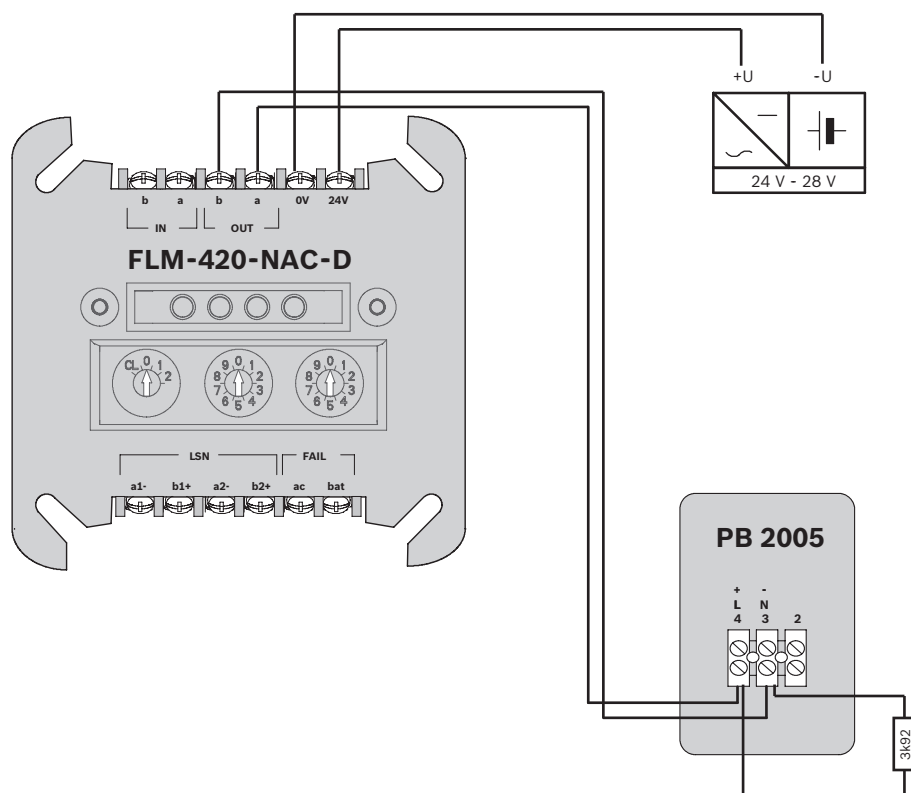
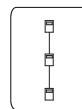


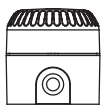
PB 2005



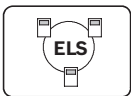
VdS 2489



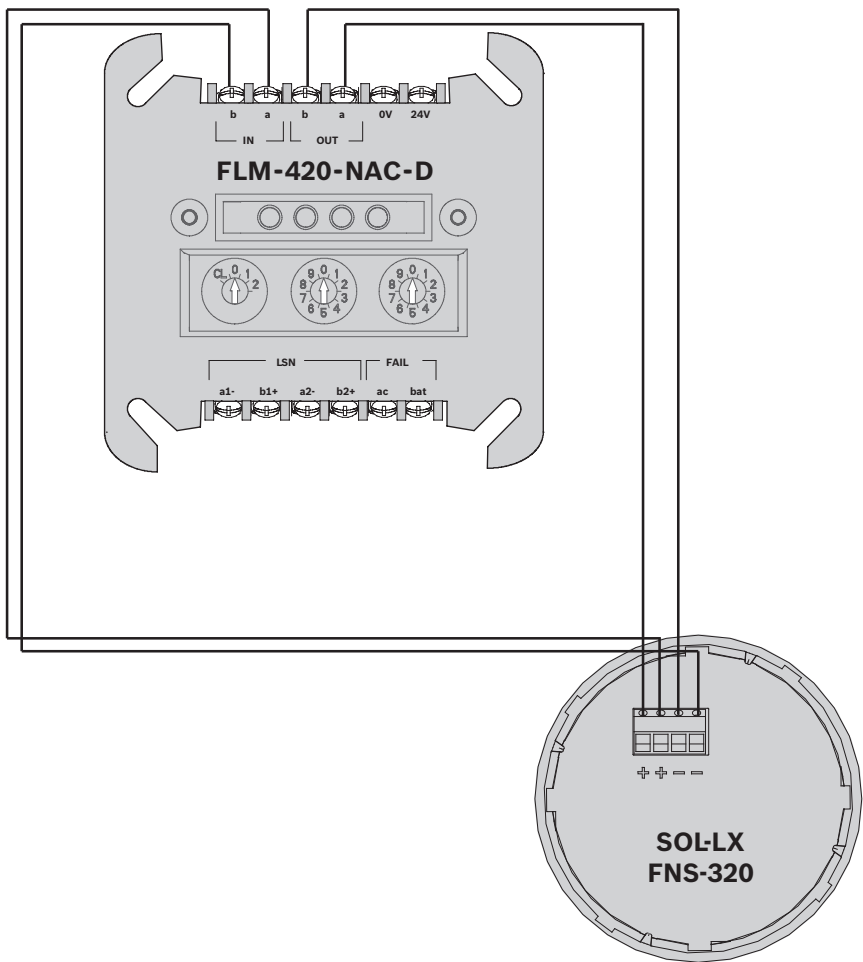
**PB 2005**

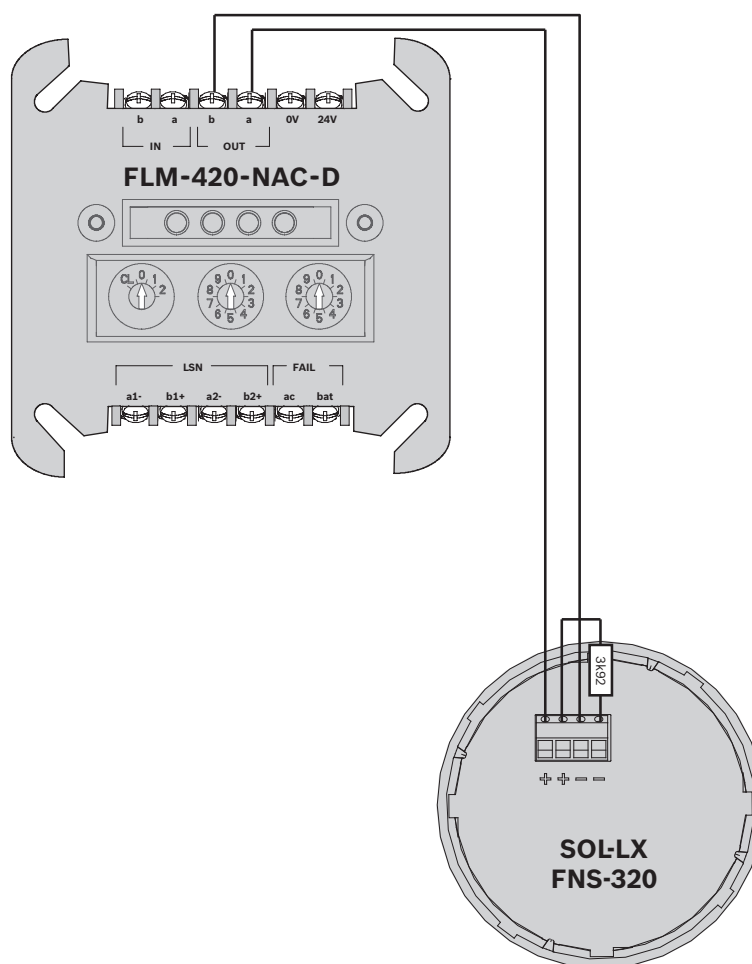
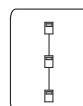


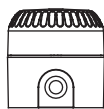
**SOL-LX
FNS-320**



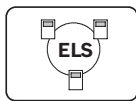
VdS 2489



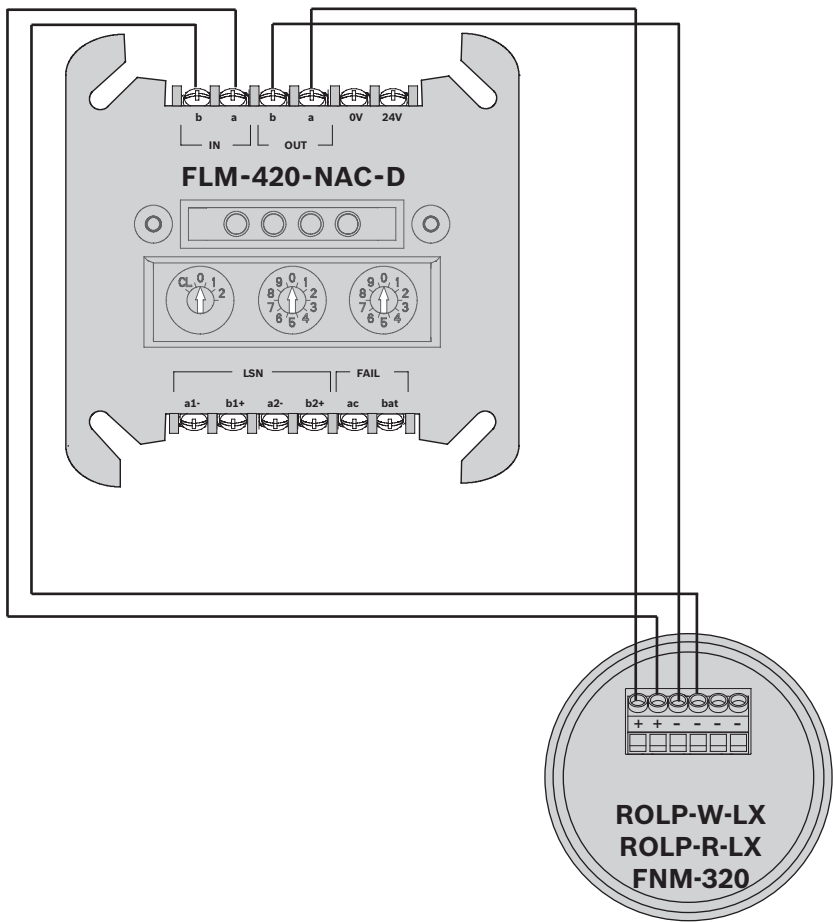
**SOL-LX
FNS-320**



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

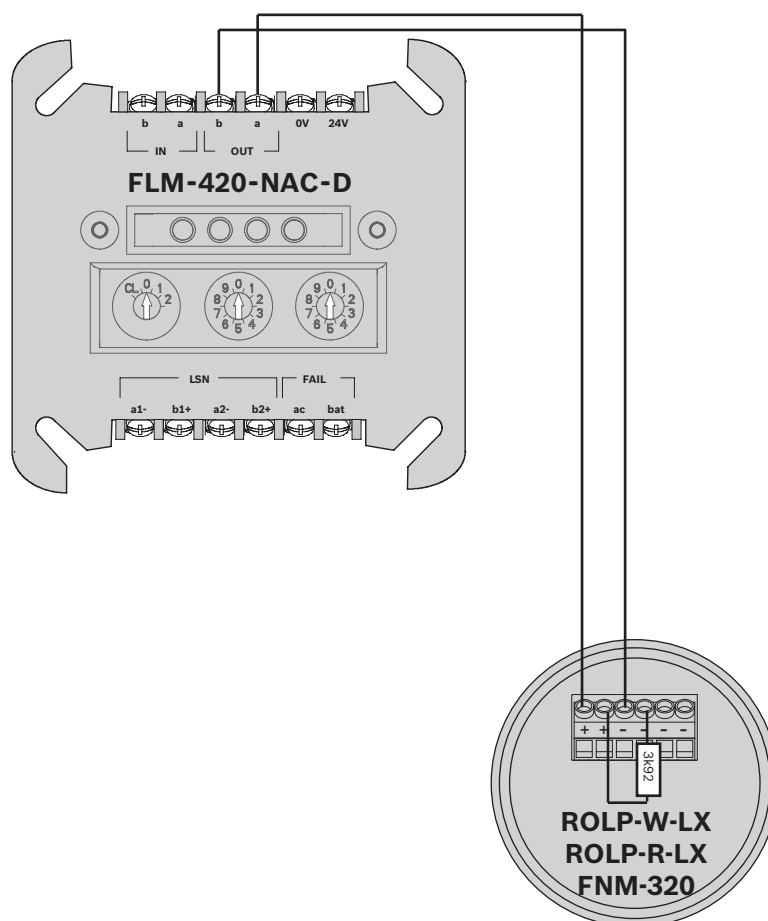
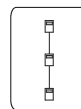


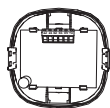
VdS 2489



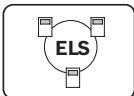


ROLP-W-LX
ROLP-R-LX
FNM-320

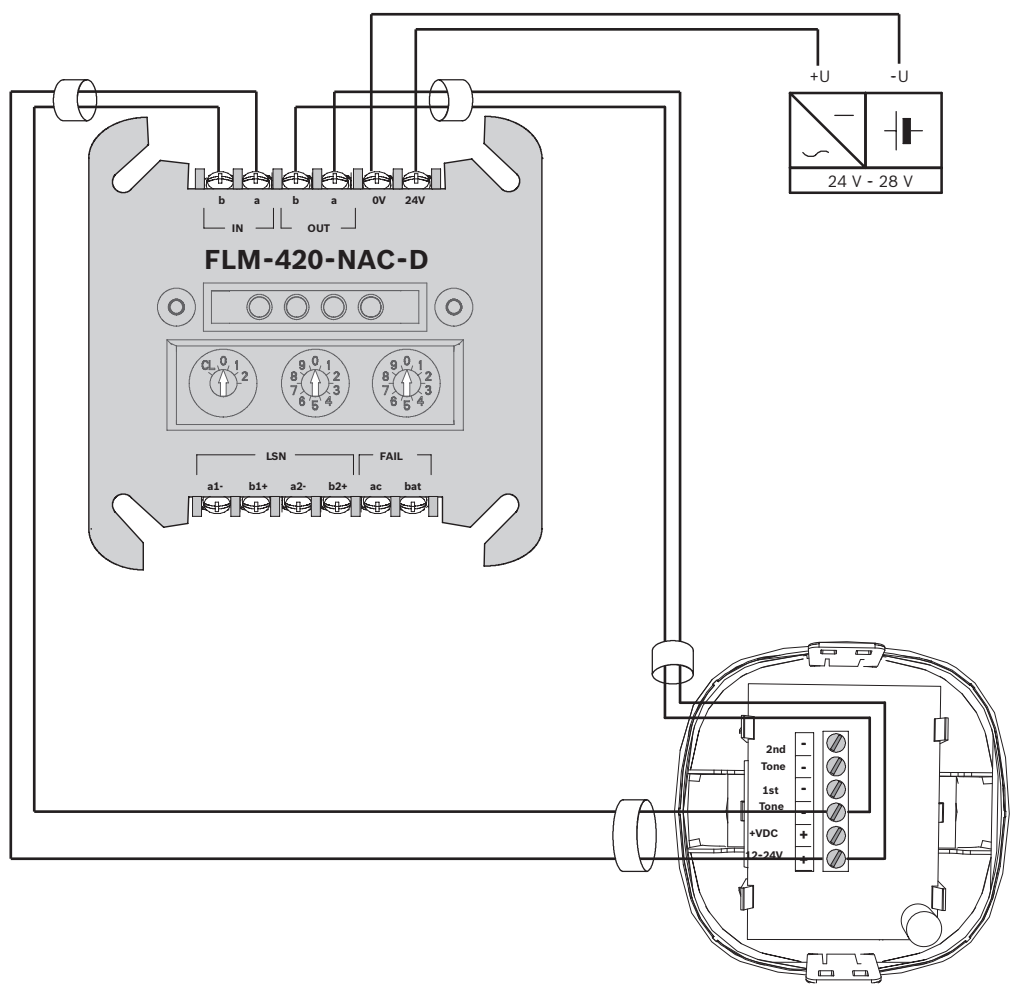


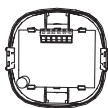
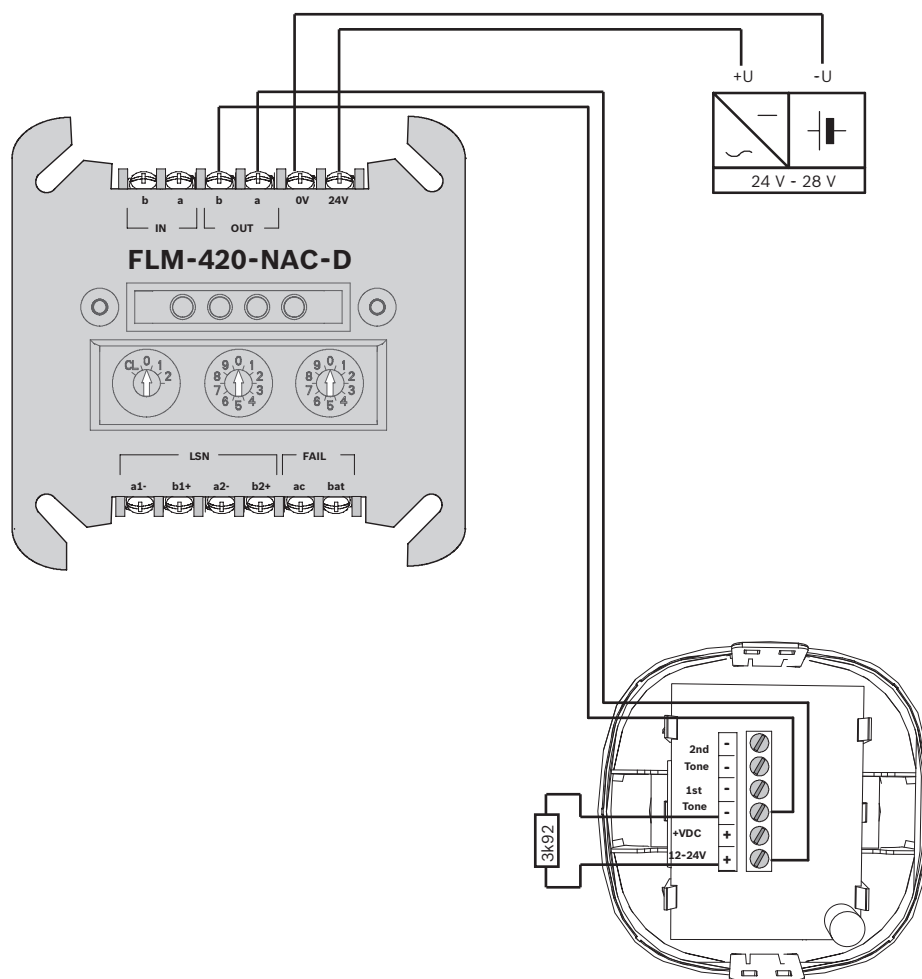
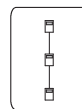


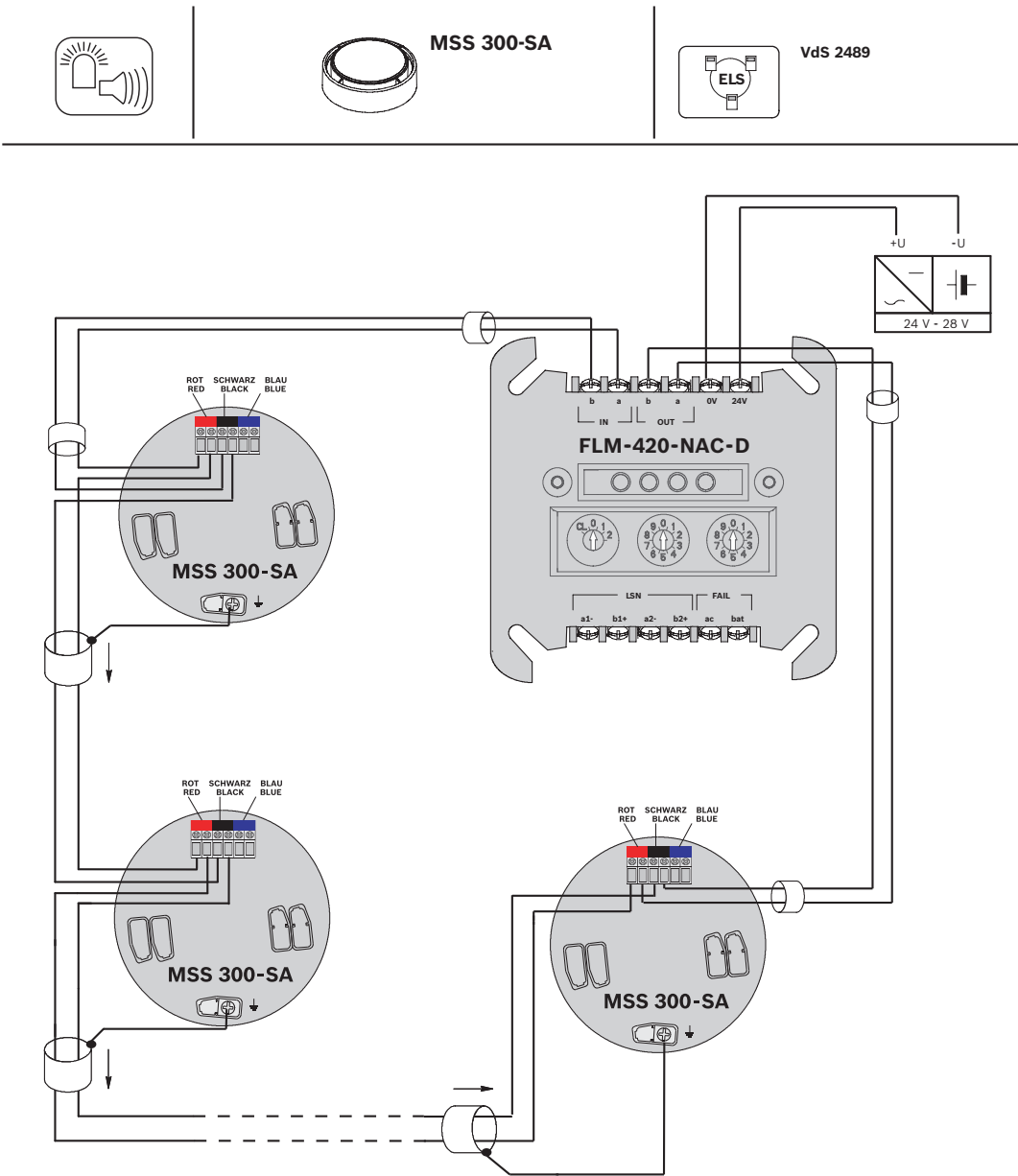
FNM-320V-A / -B



VdS 2489

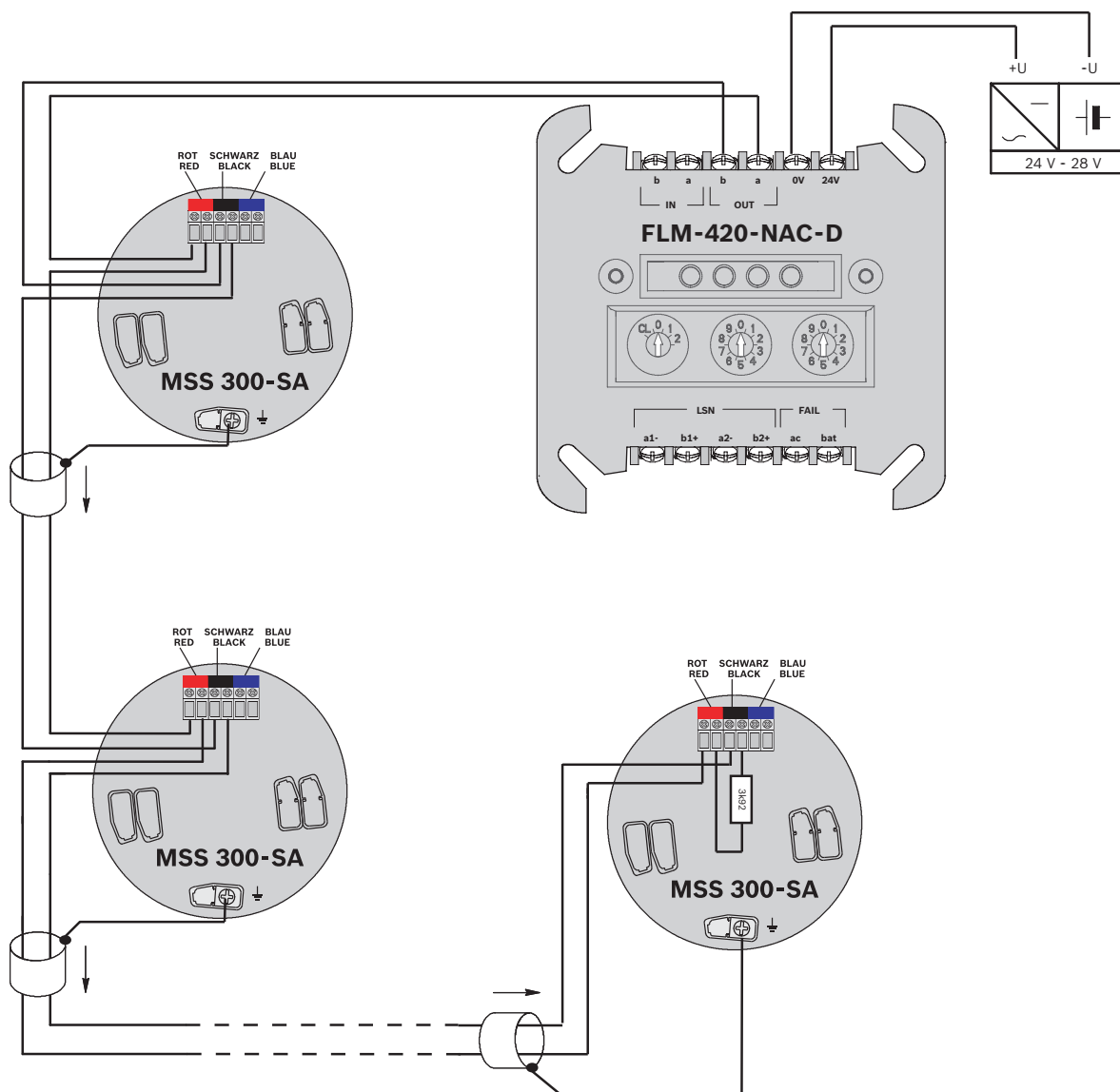
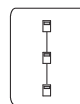


**FNM-320V-A / -B**





MSS 300-SA

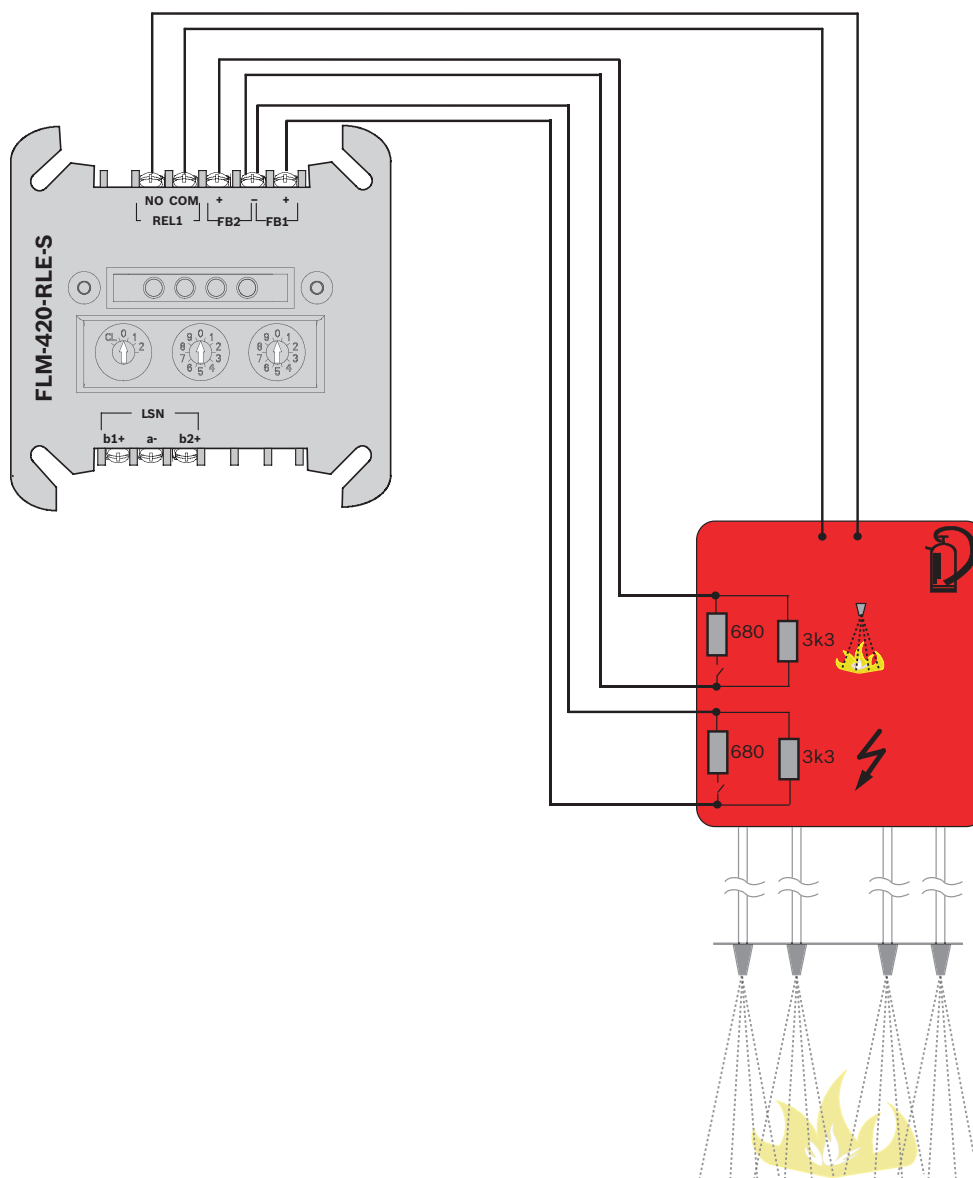


3.4.3

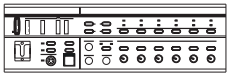
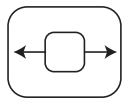
FLM-420-RLE-S



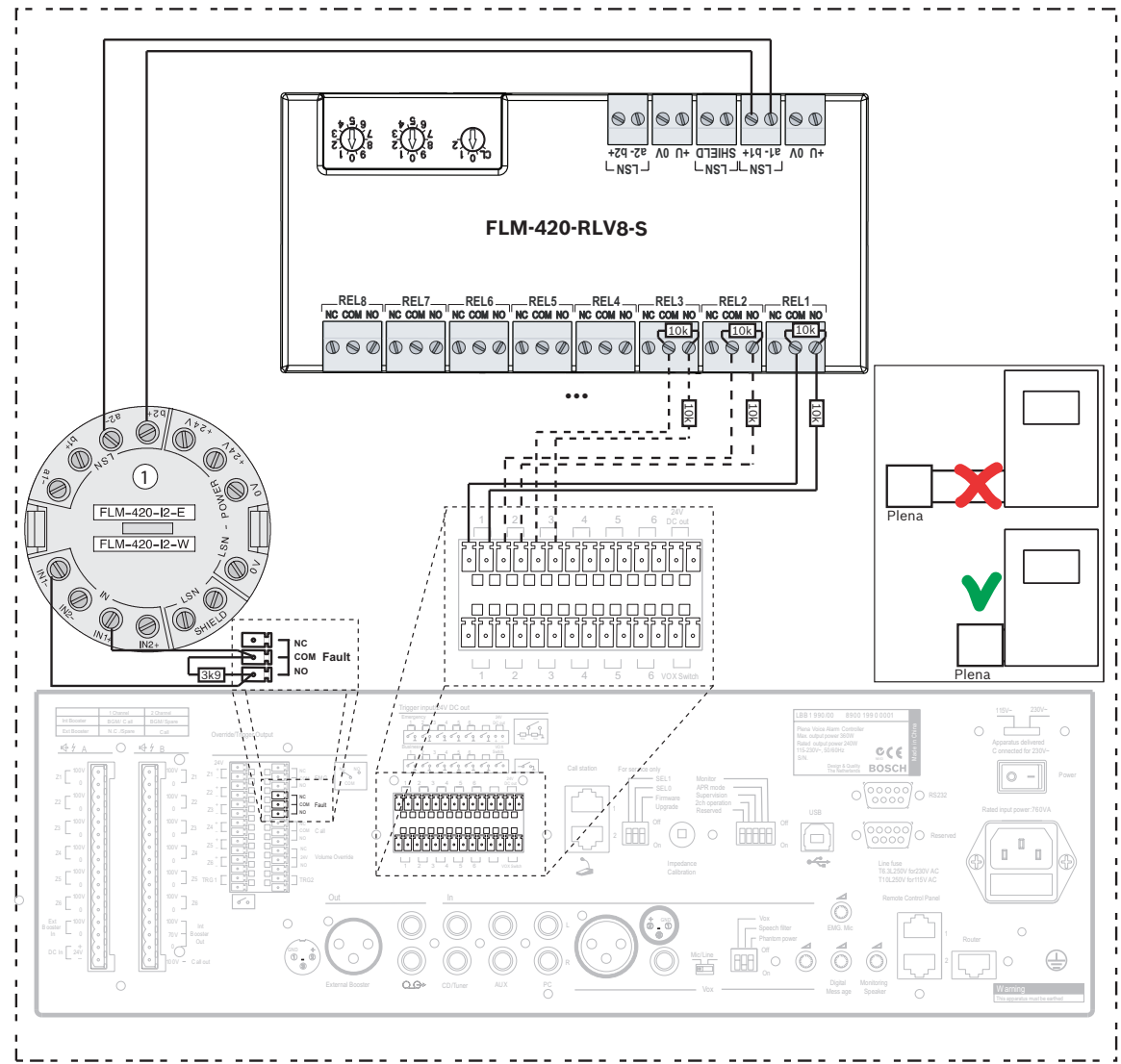
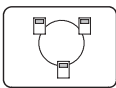
VdS 2496:2005-09



3.4.5 FLM-420-RLV8-S

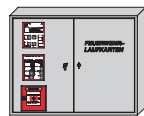


Plena



3.4.6

FMF-ADP-FBF/FMF-ADP-TTY



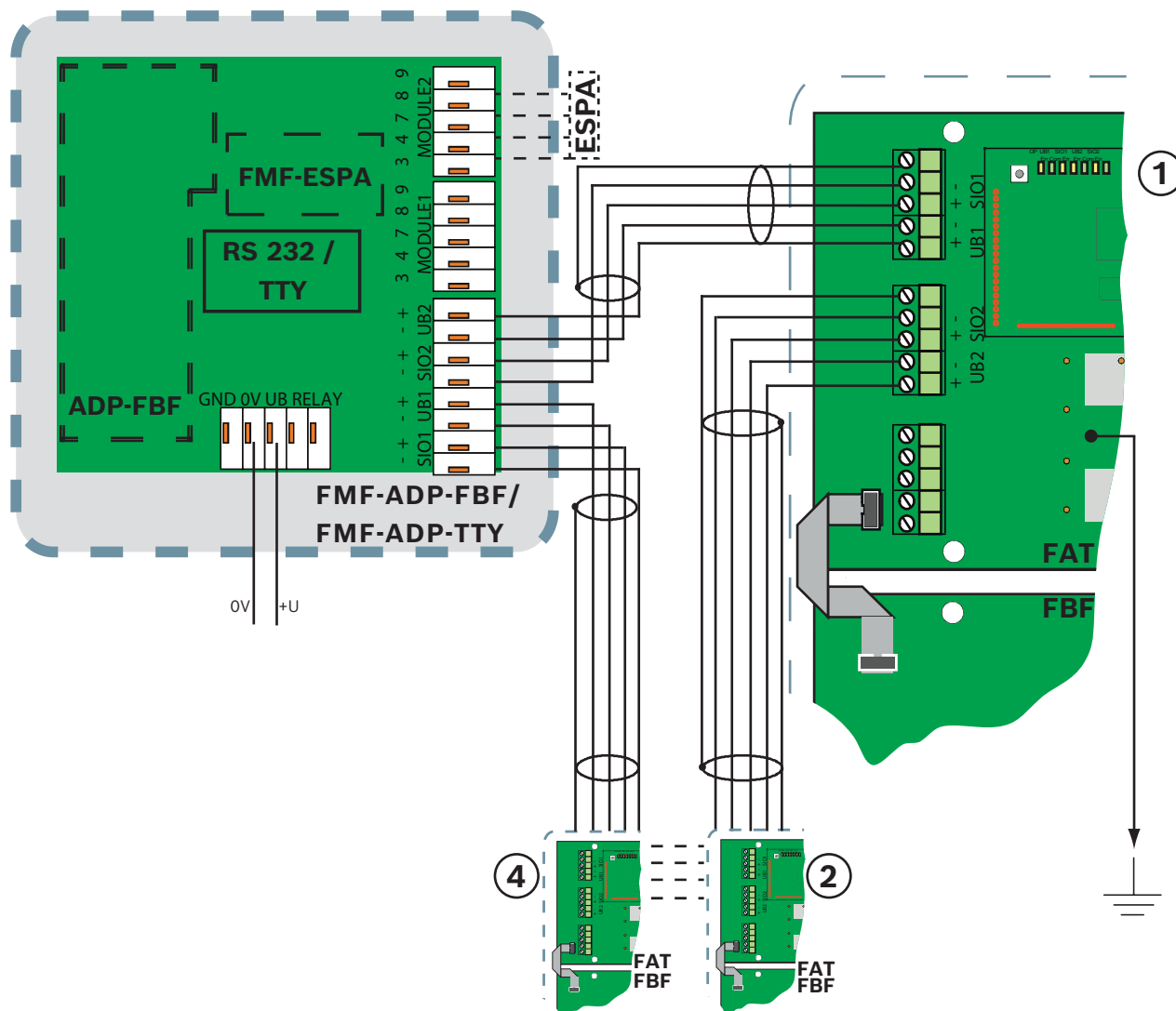
FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT

FMF-FIBS-A4/-A3

FMF-ADP

ELS VdS 2489

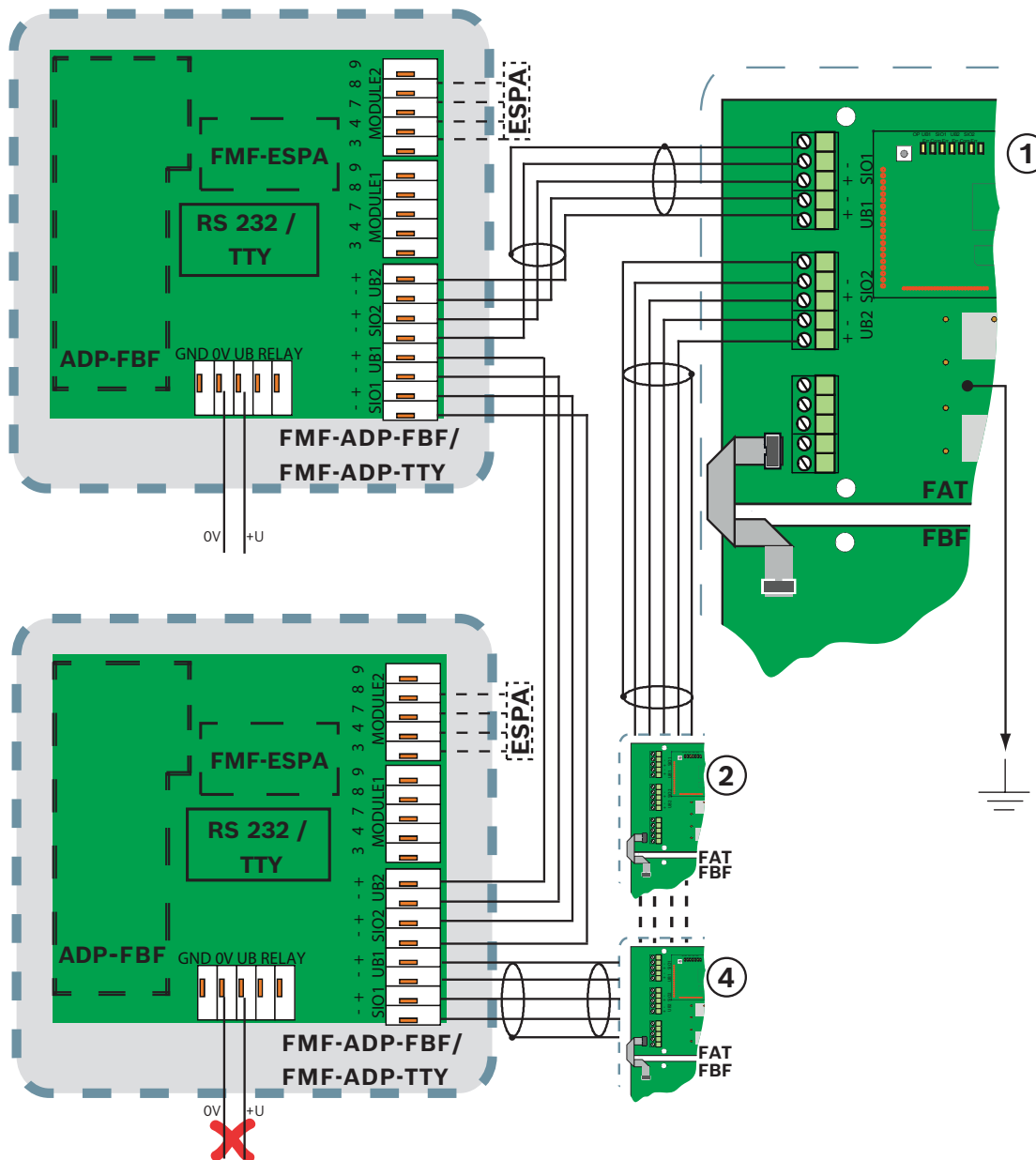




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



3.5

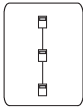
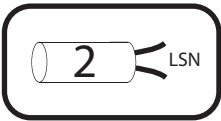
EOL



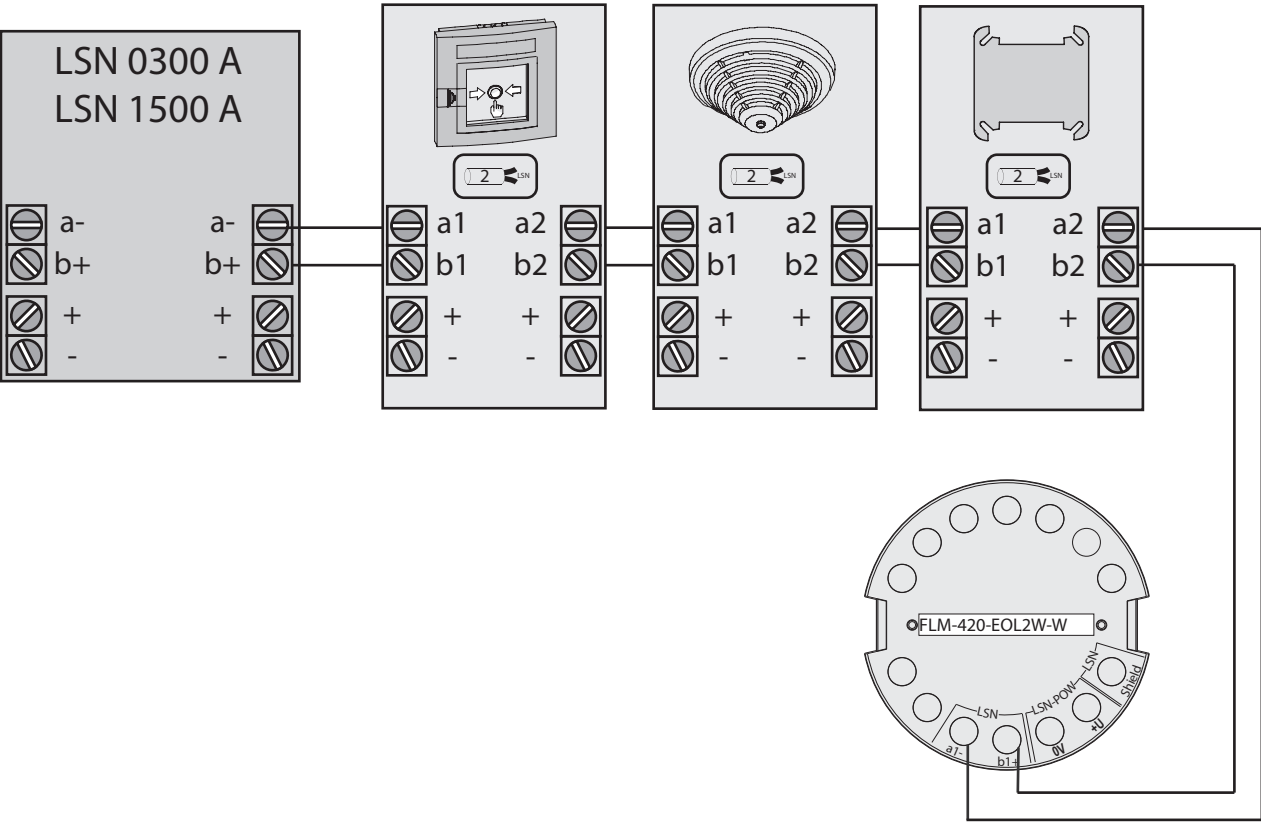
LSN 0300 A, Seite 182

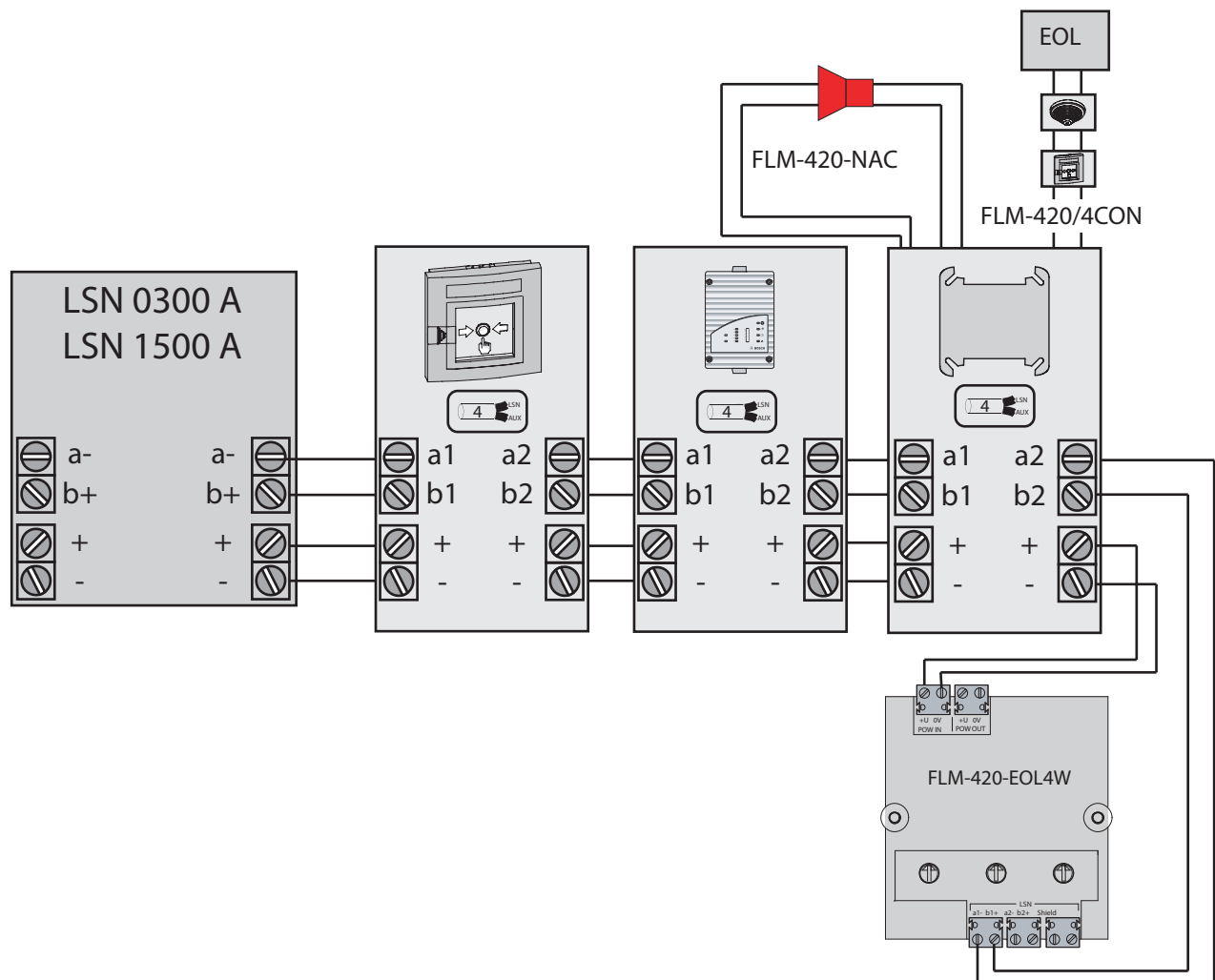
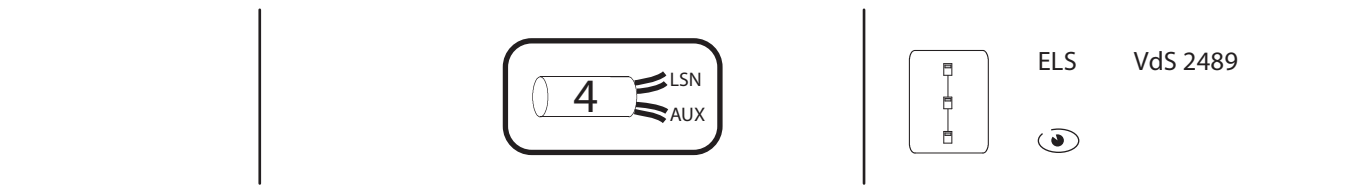
FLM-420/4-CON-S/D, Seite 224

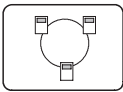
3.5.1 LSN 0300 A



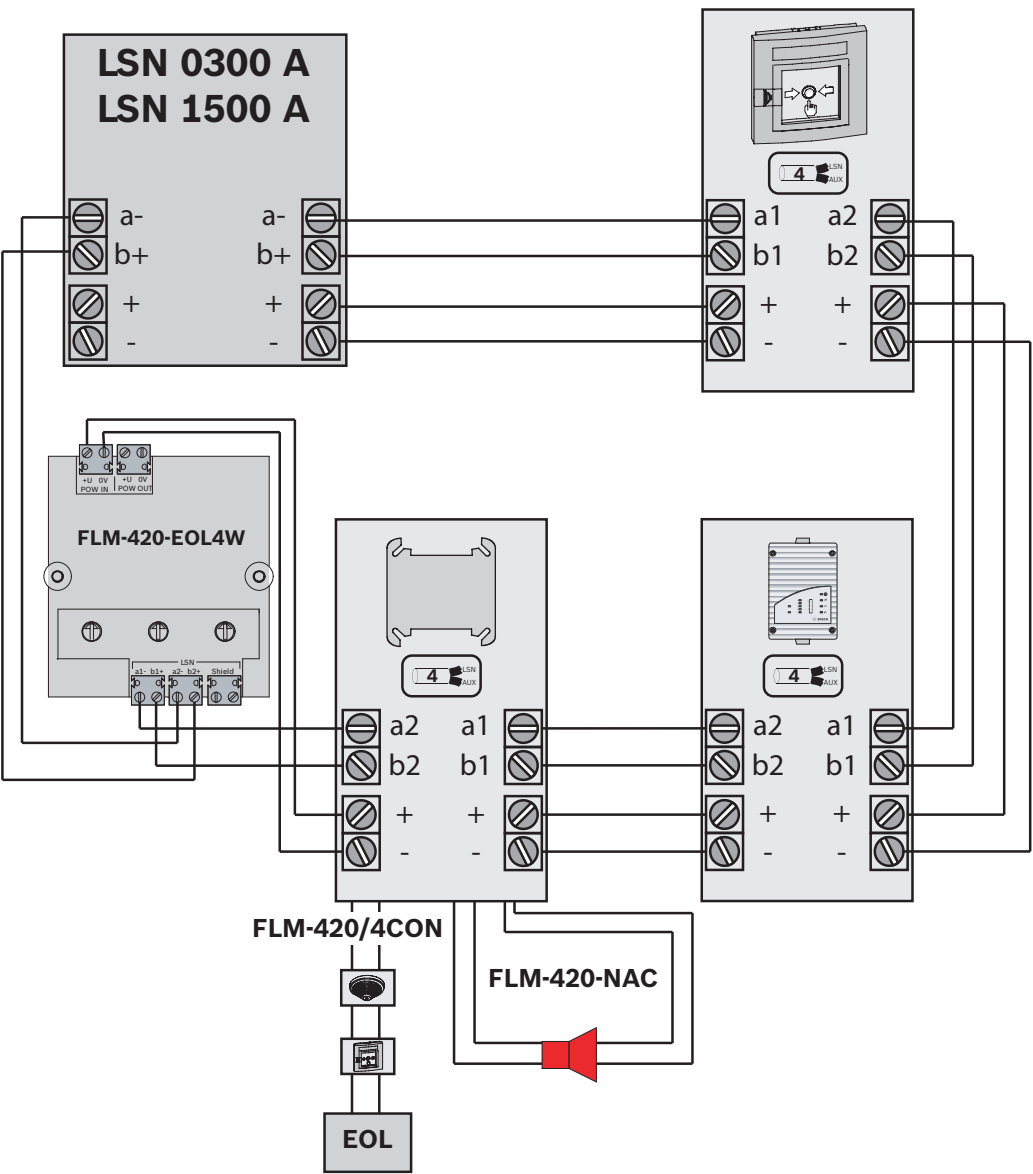
ELS VdS 2489







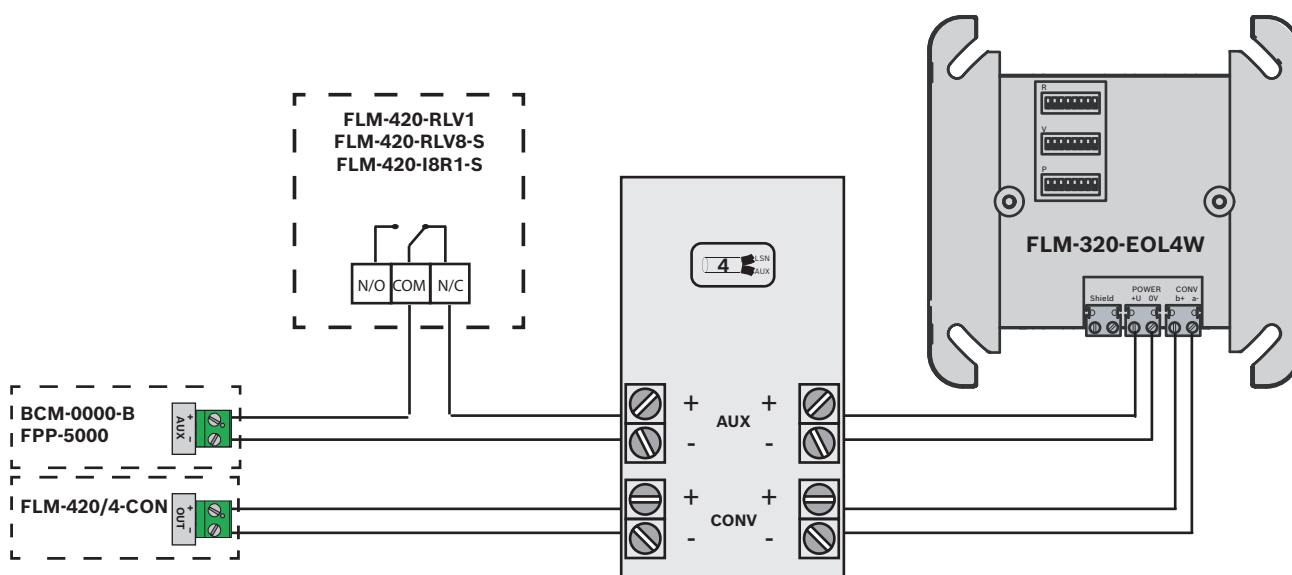
ELS VdS 2489

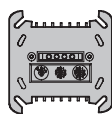
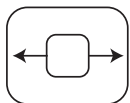




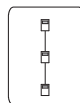
Reset action

ELS VdS 2489

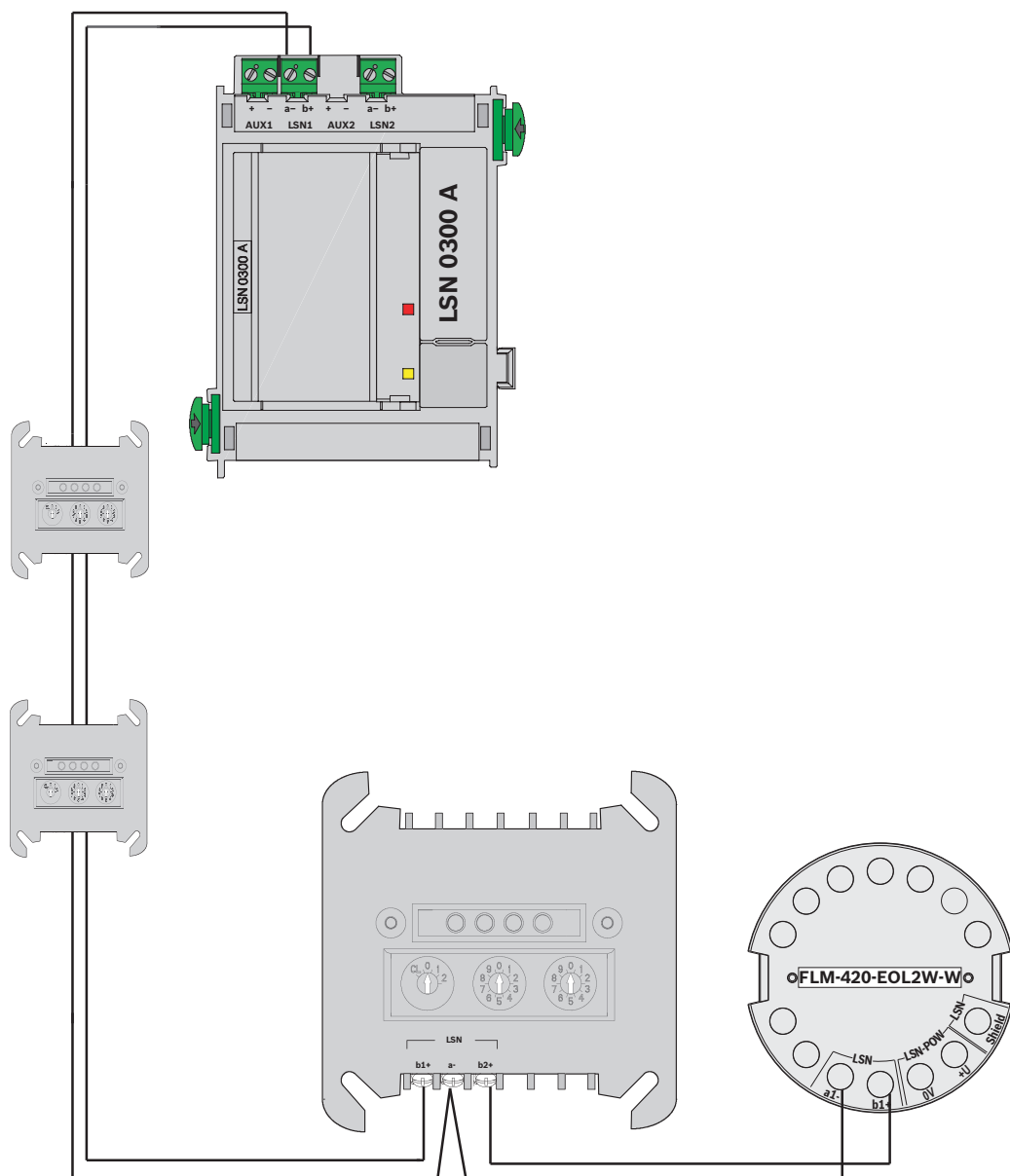


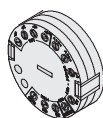
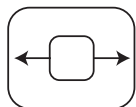


FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

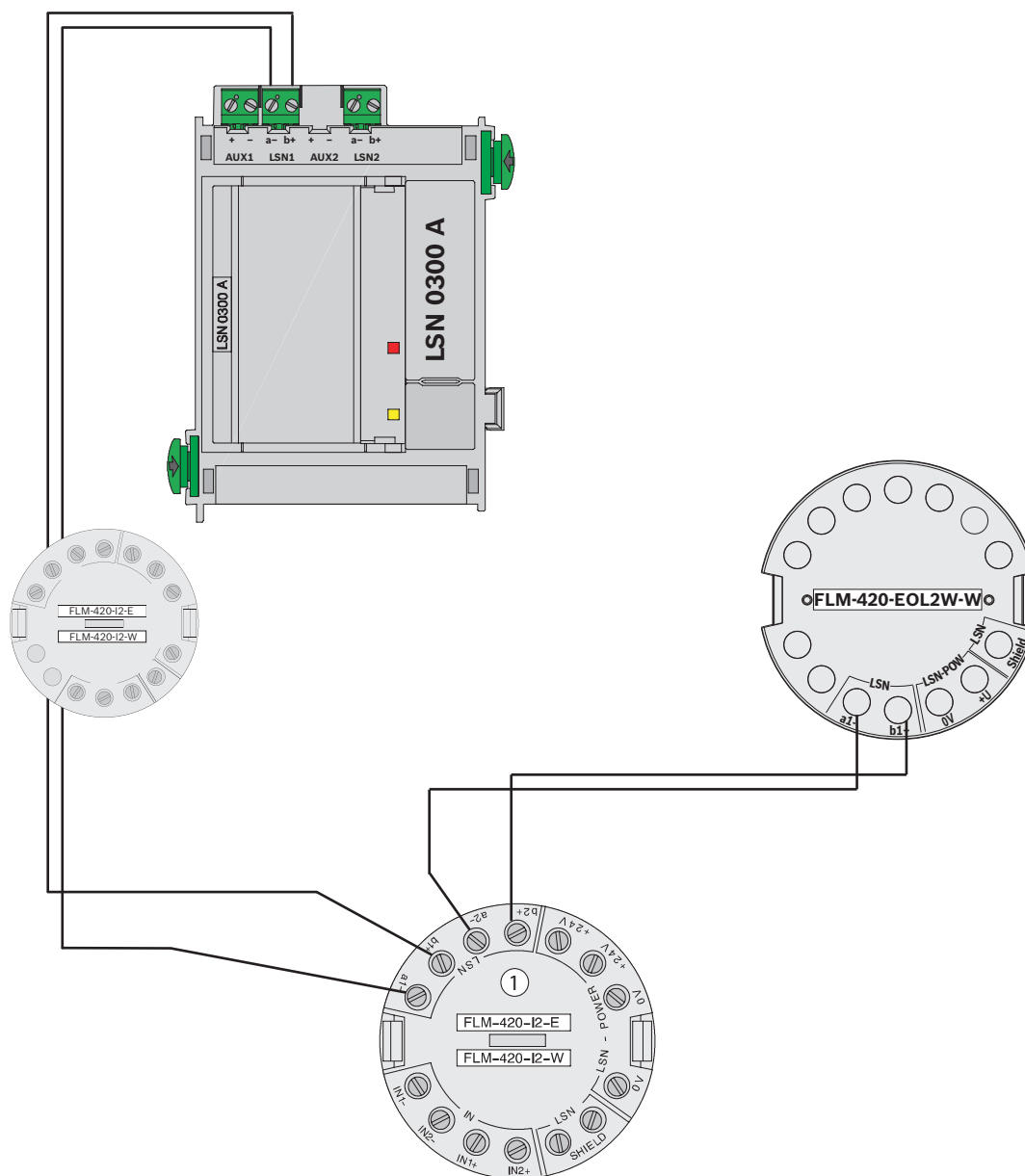


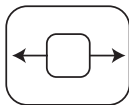
ELS VdS 2489



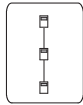


ELS VdS 2489

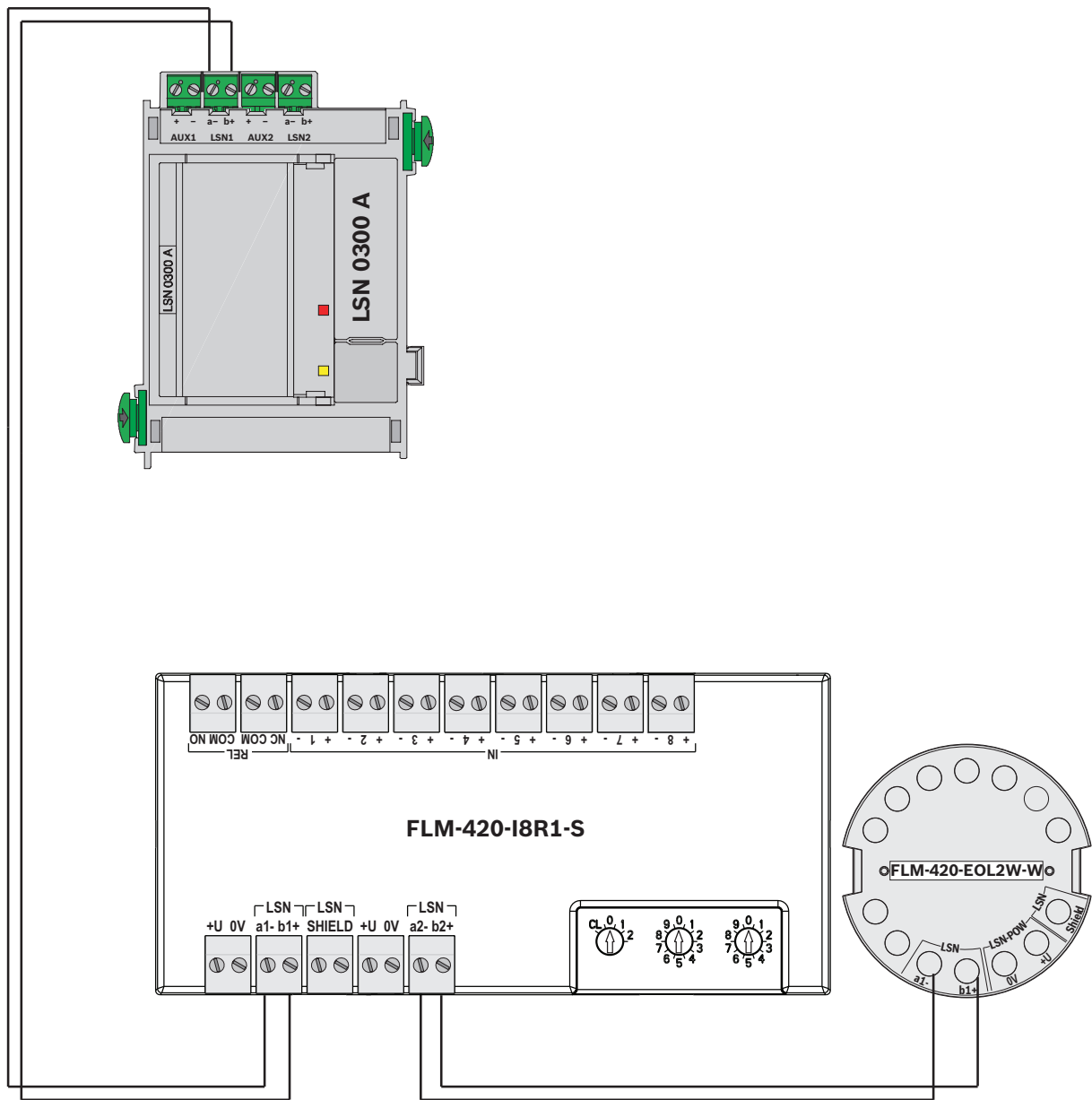


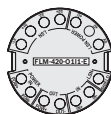
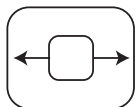
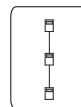
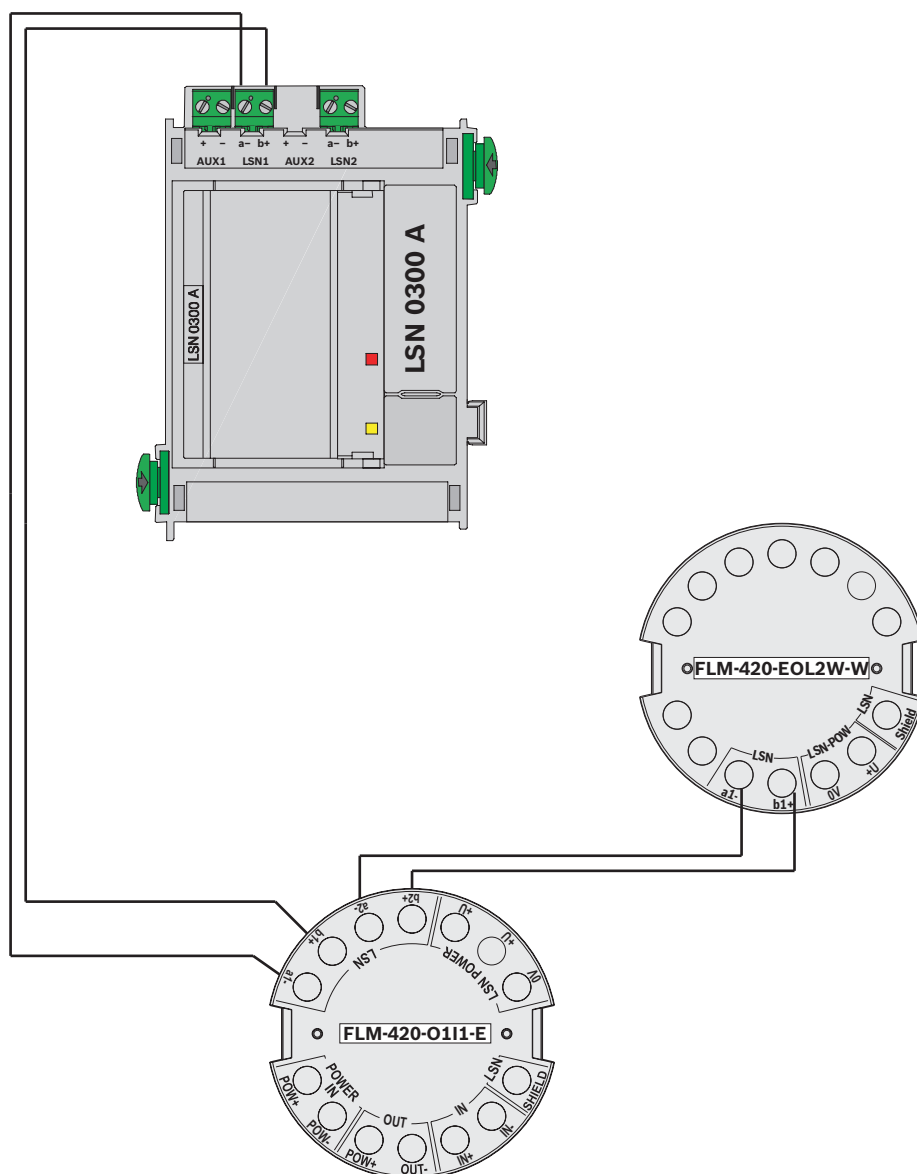


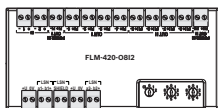
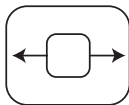
FLM-420-I8R1-S



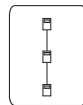
ELS VdS 2489



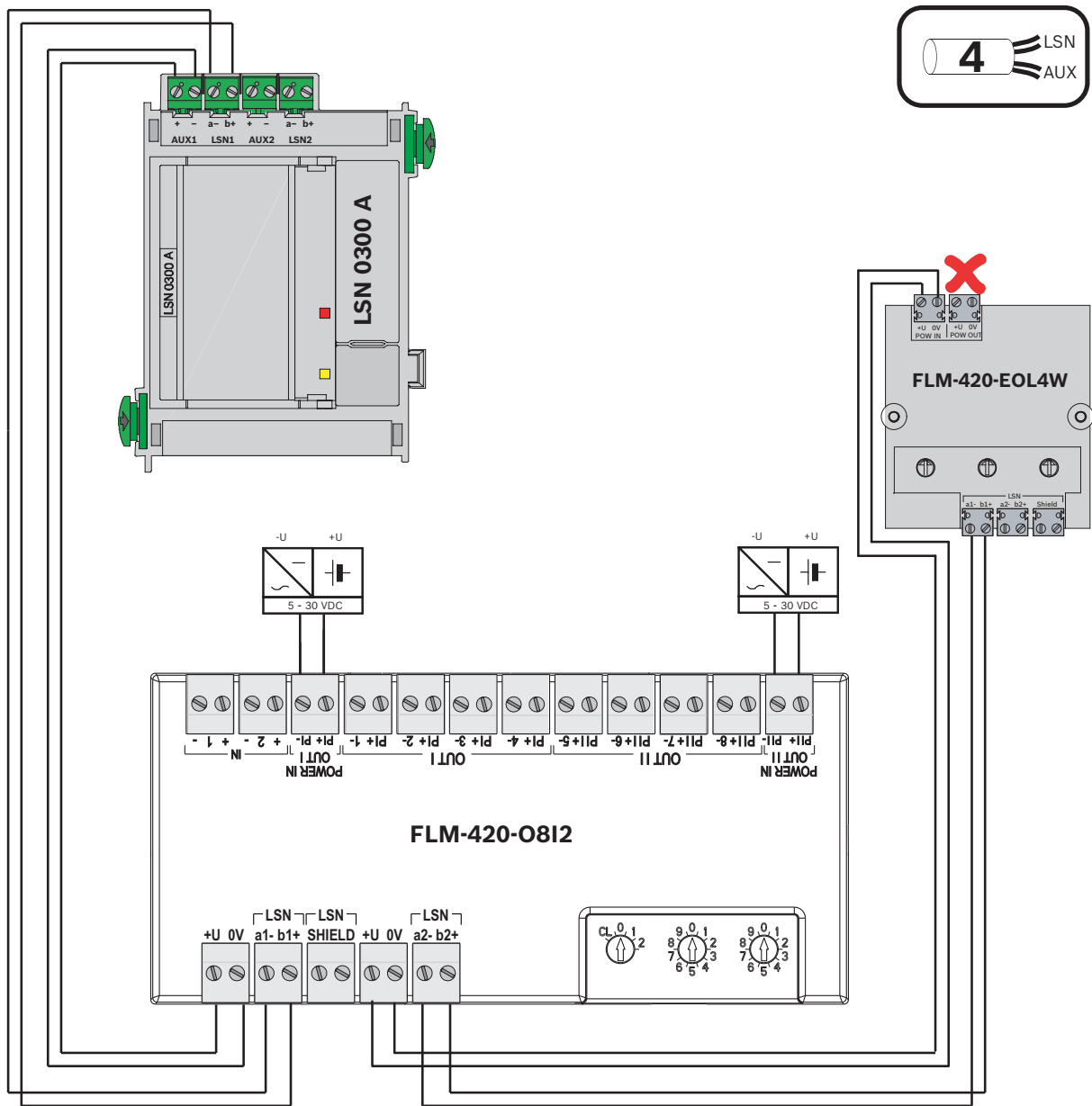
**FLM-420-O1I1-E****ELS VdS 2489**

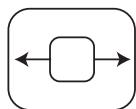


FLM-420-08I2-S

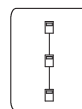


ELS VdS 2489

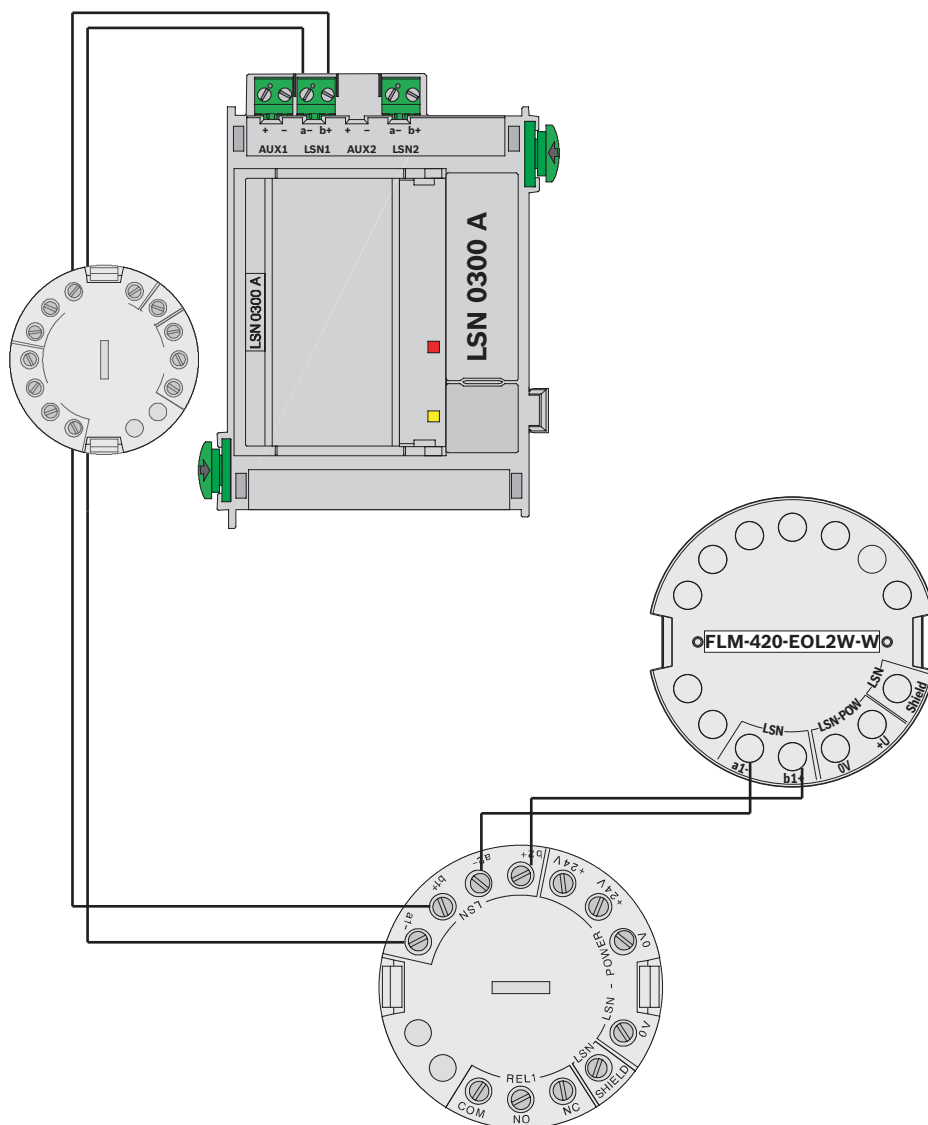


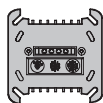
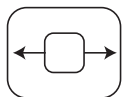


FLM-420-I2-E/-W
FLM-420-RLV1-E



ELS VdS 2489

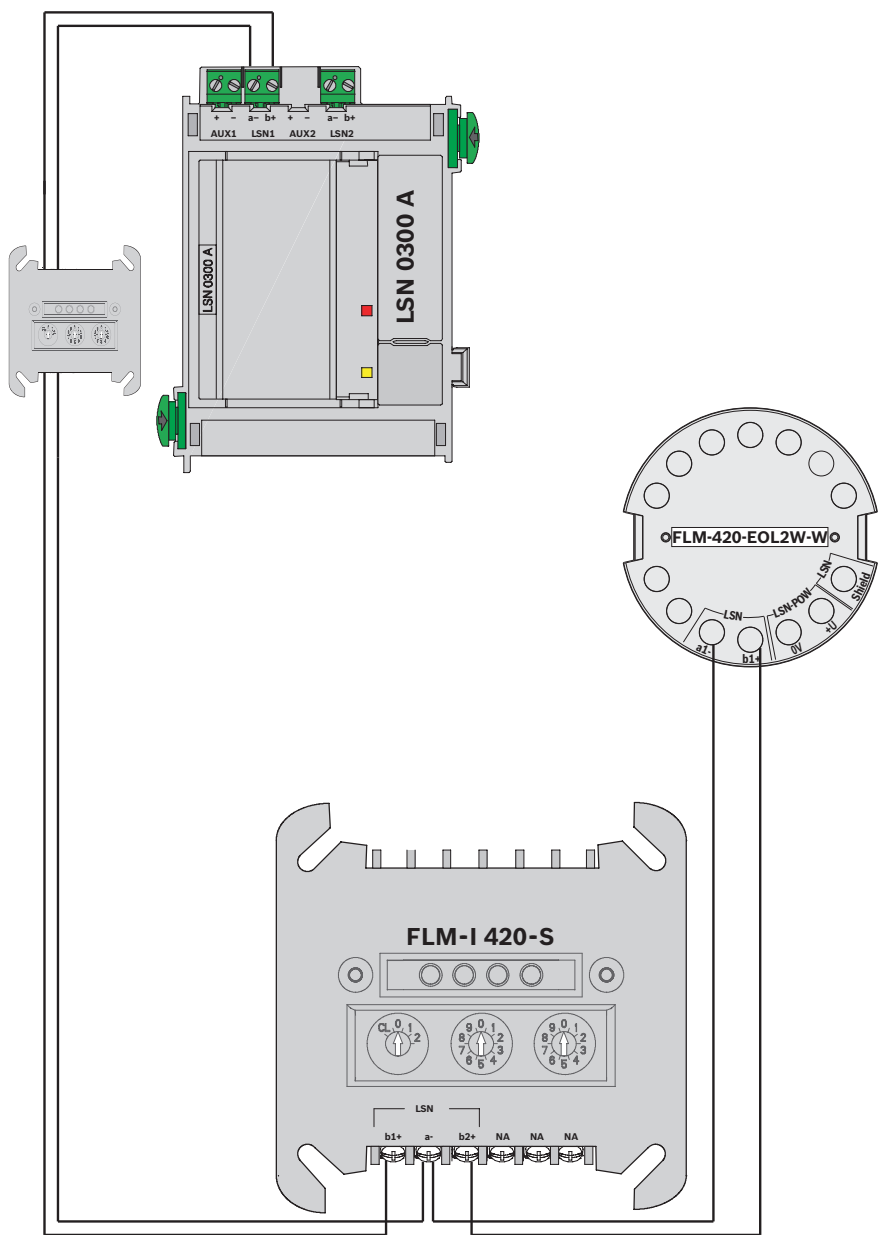


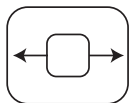
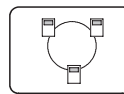
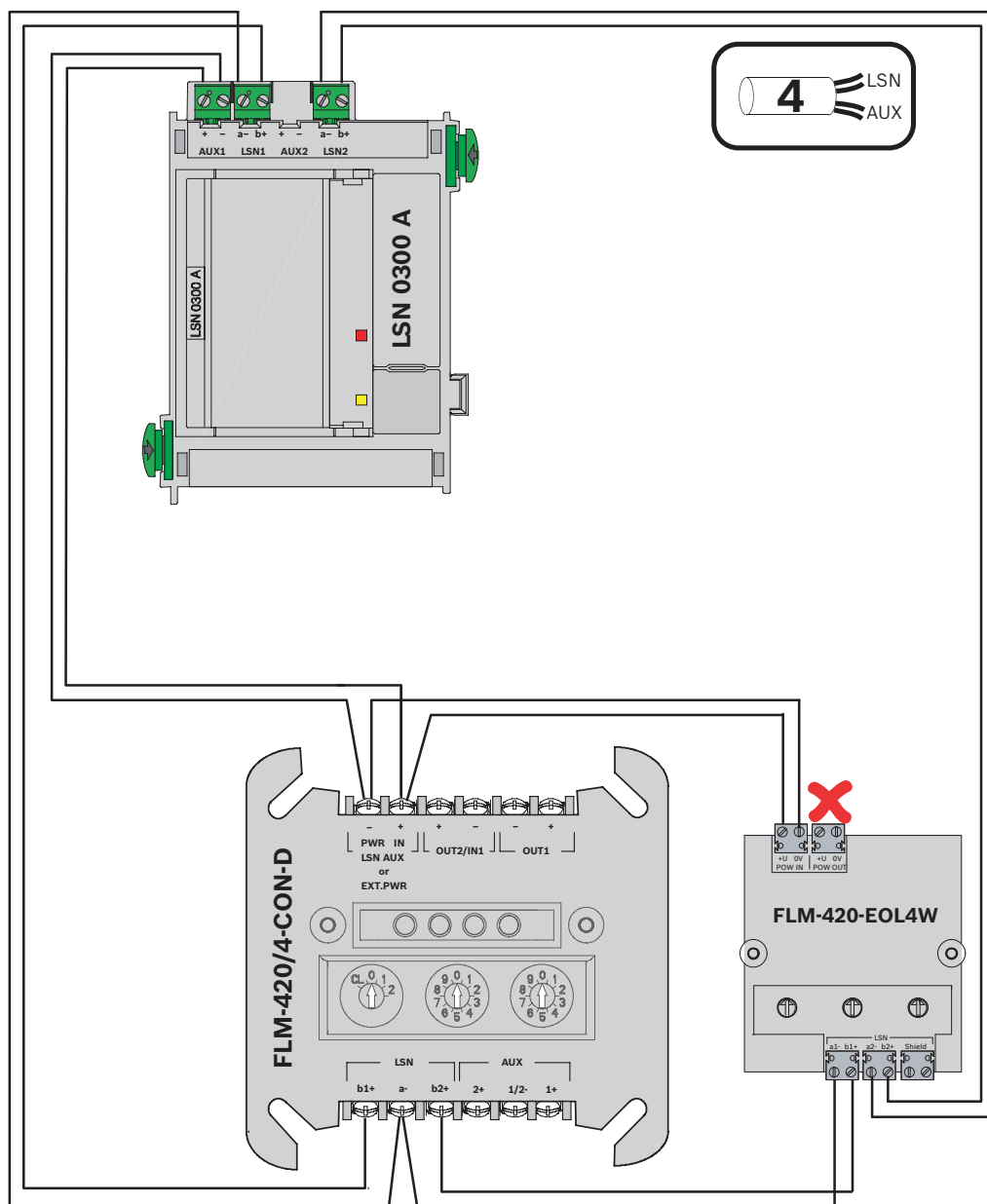


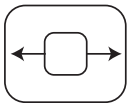
FLM-I 420-S



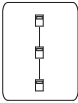
ELS VdS 2489



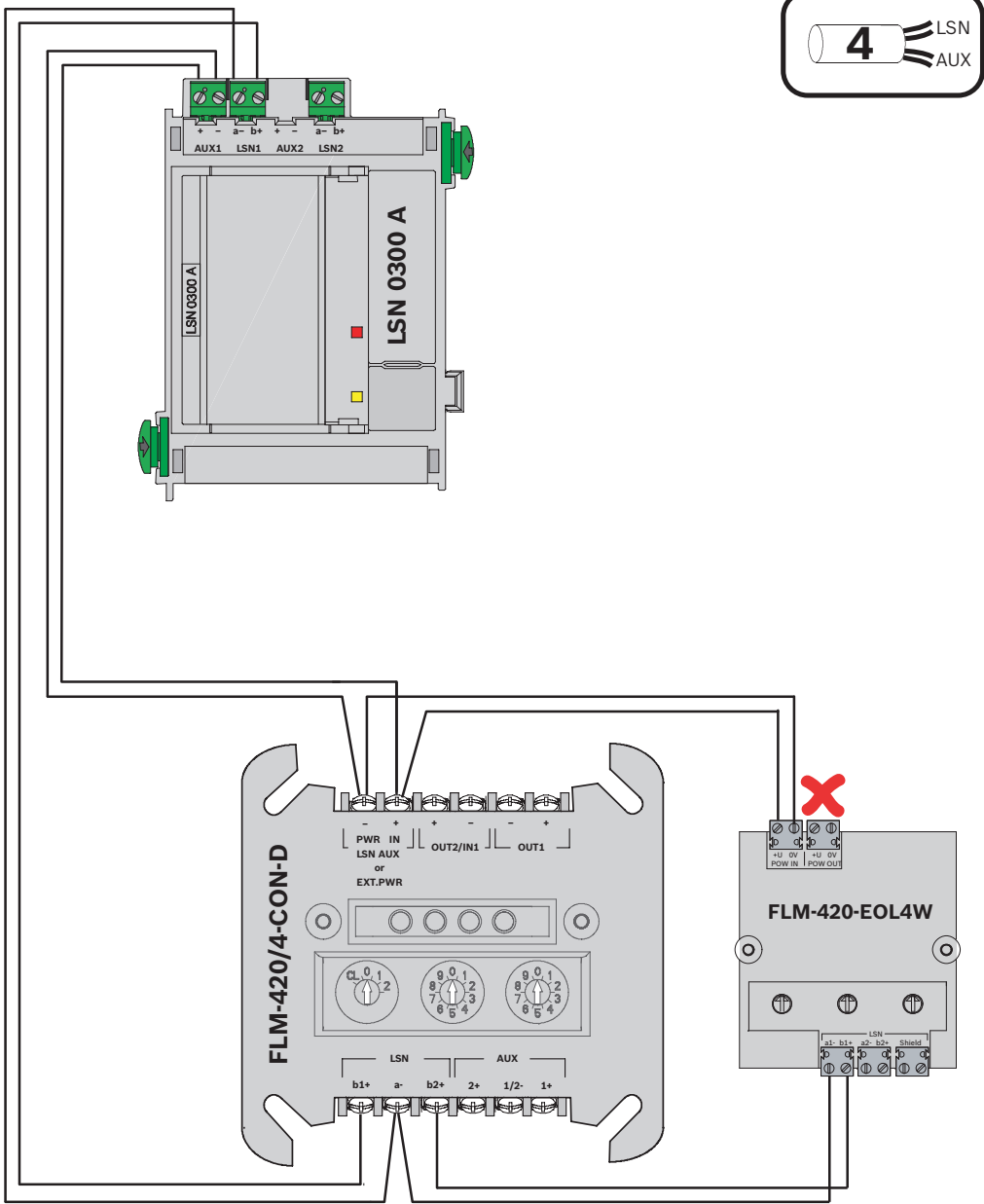

**FLM-420/
4-CON-D**

ELS VdS 2489


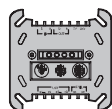
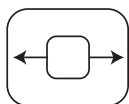
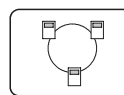
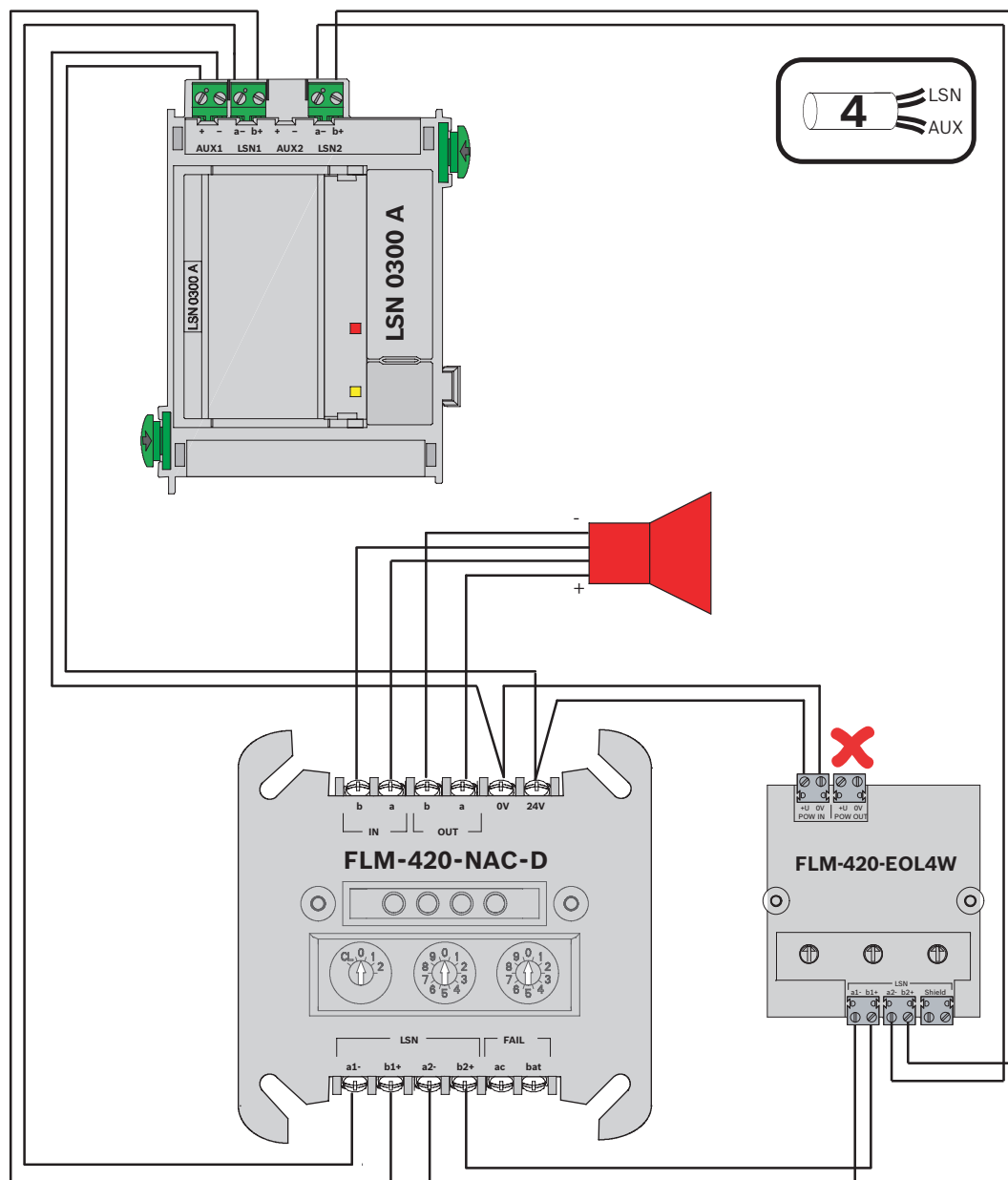


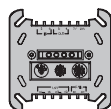
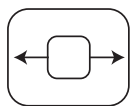
**FLM-420/
4-CON-D**



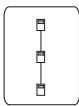
ELS VdS 2489



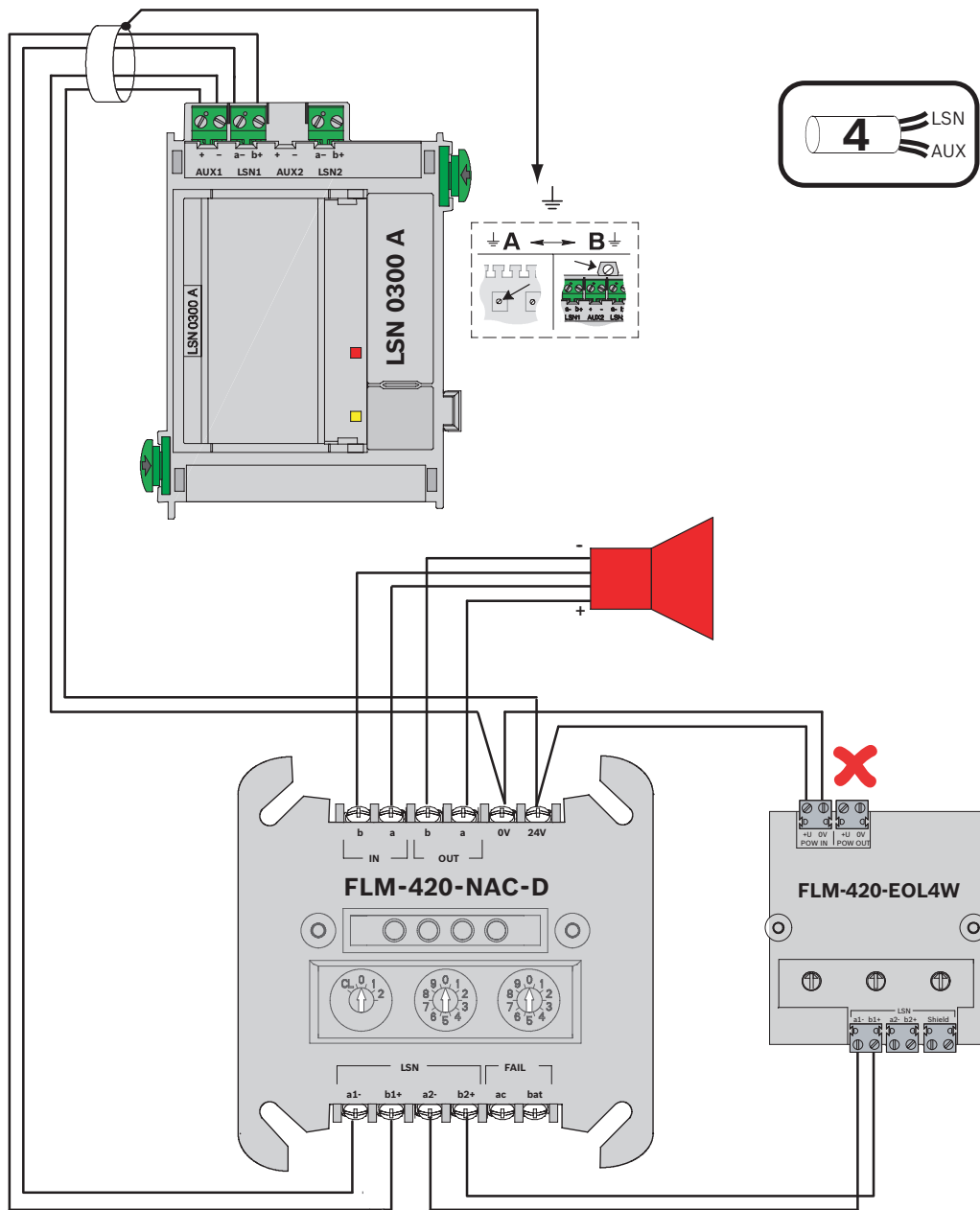

FLM-420-NAC-D/S

**ELS VdS 2489
EN 54-2**


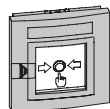
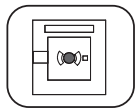
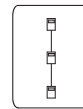
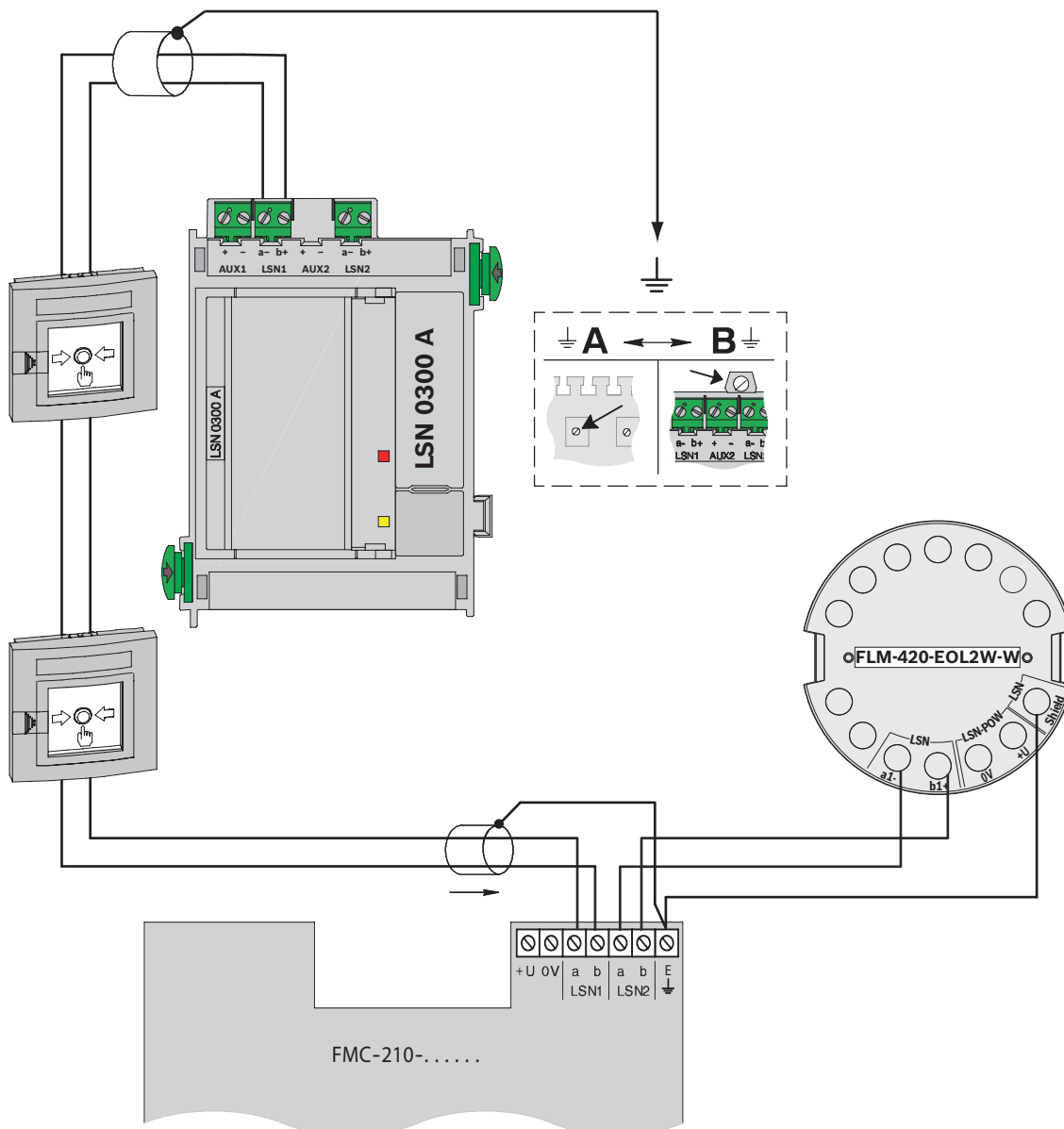


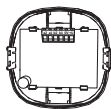
FLM-420-NAC-D/S



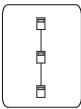
ELS VdS 2489



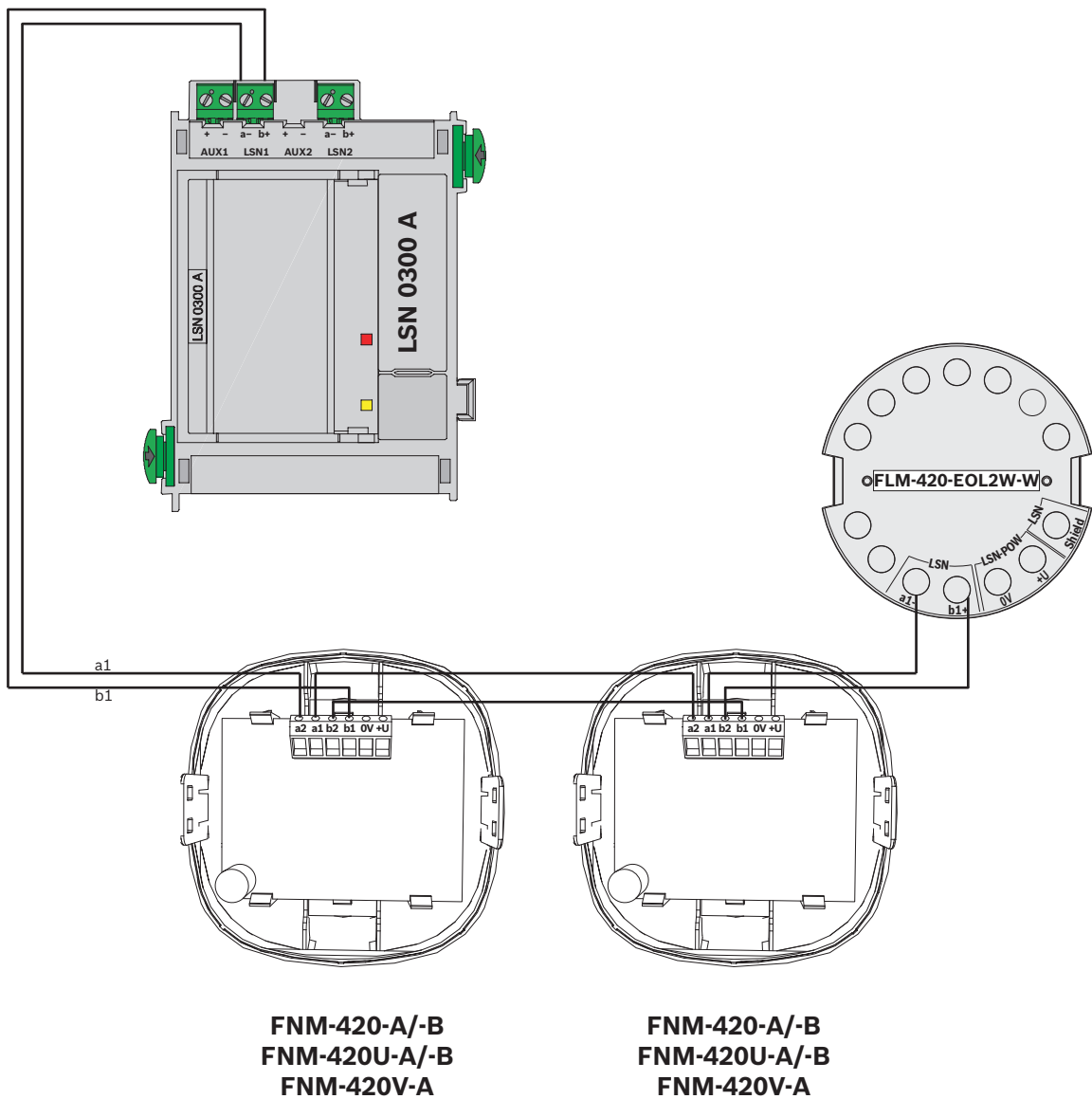

FMC-210-...

ELS VdS 2489




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



ELS VdS 2489

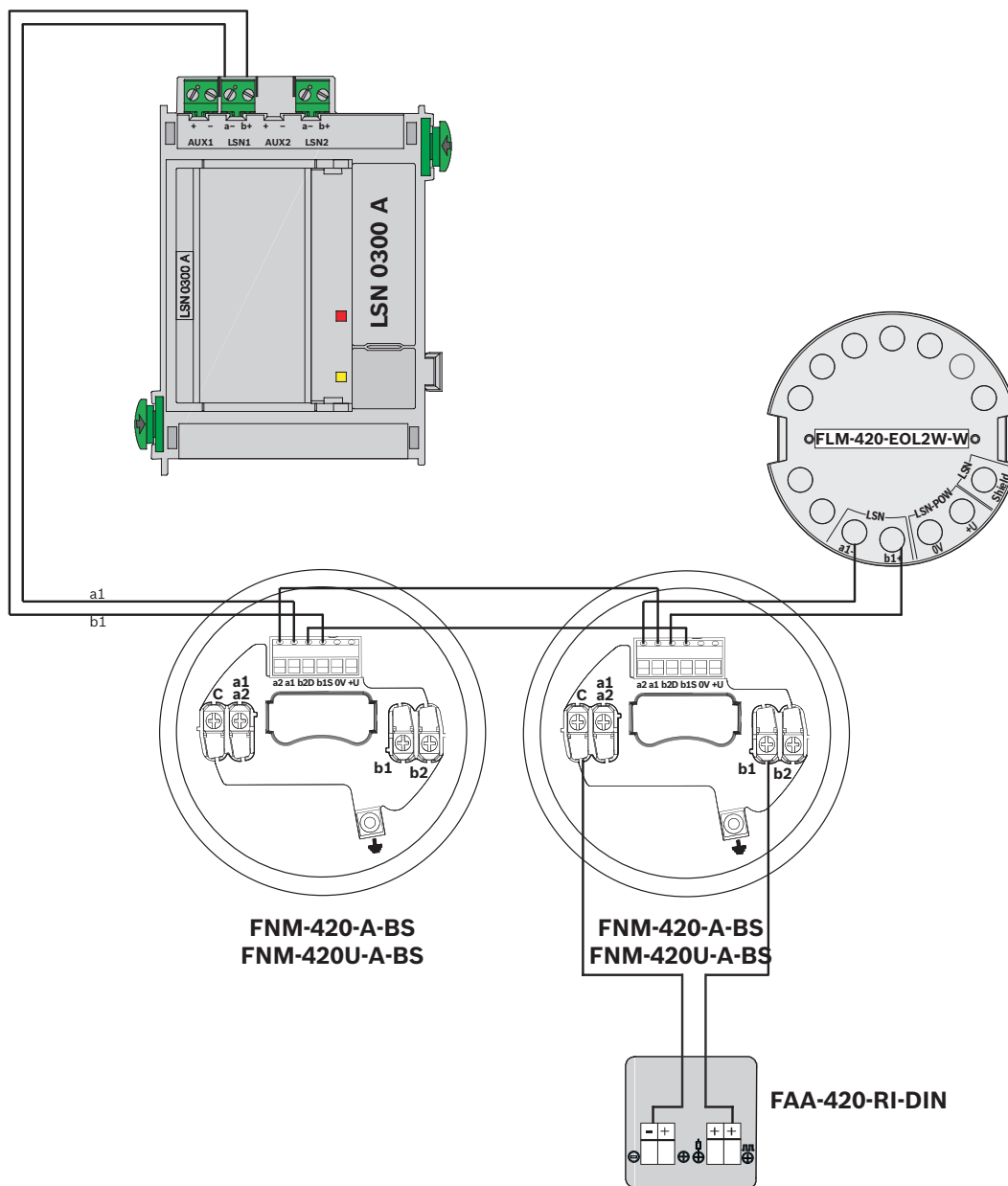




FNM-420-A-BS
FNM-420U-A-BS



ELS **VdS 2489**

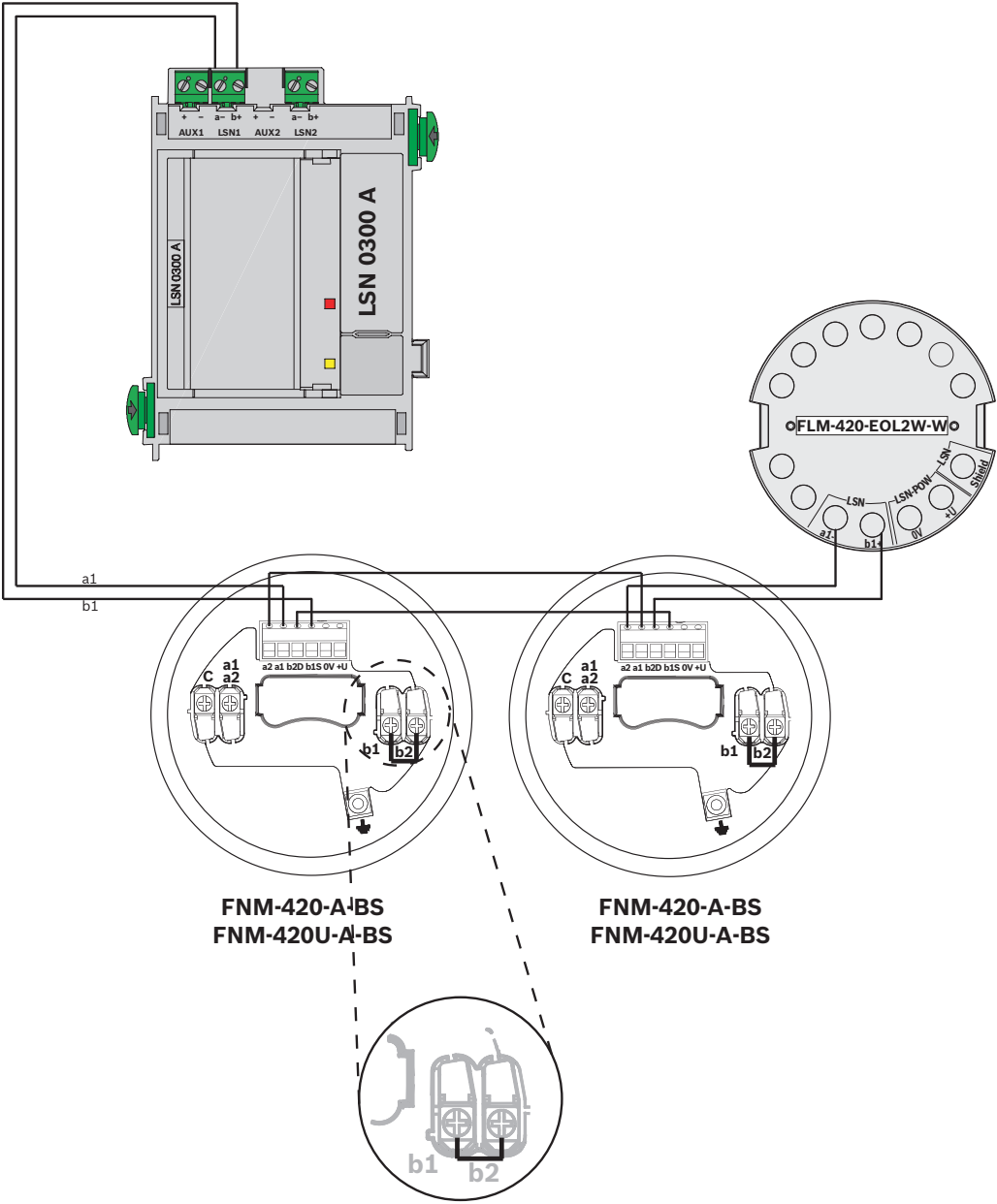


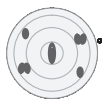


FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

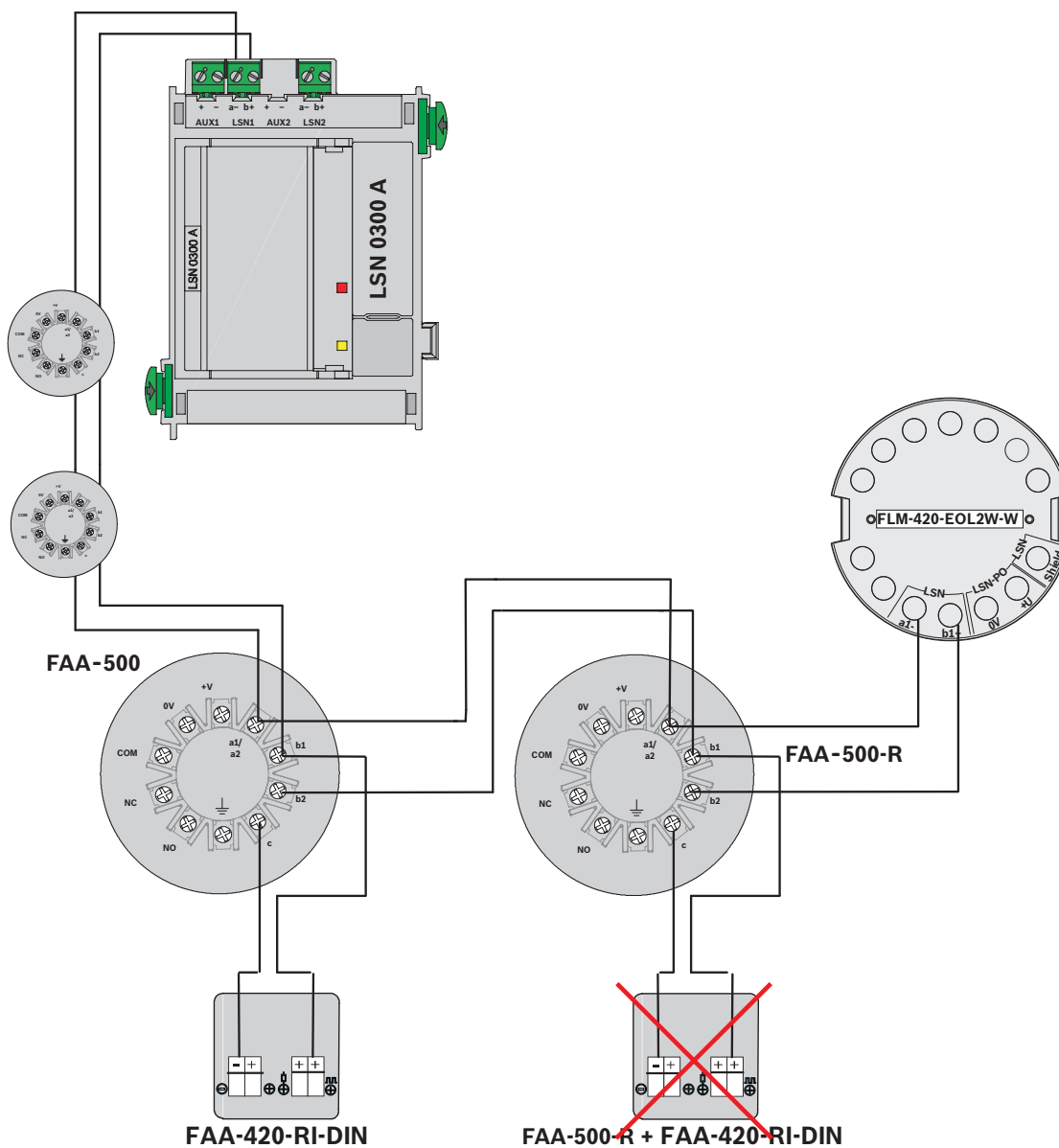




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

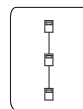


ELS VdS 2489

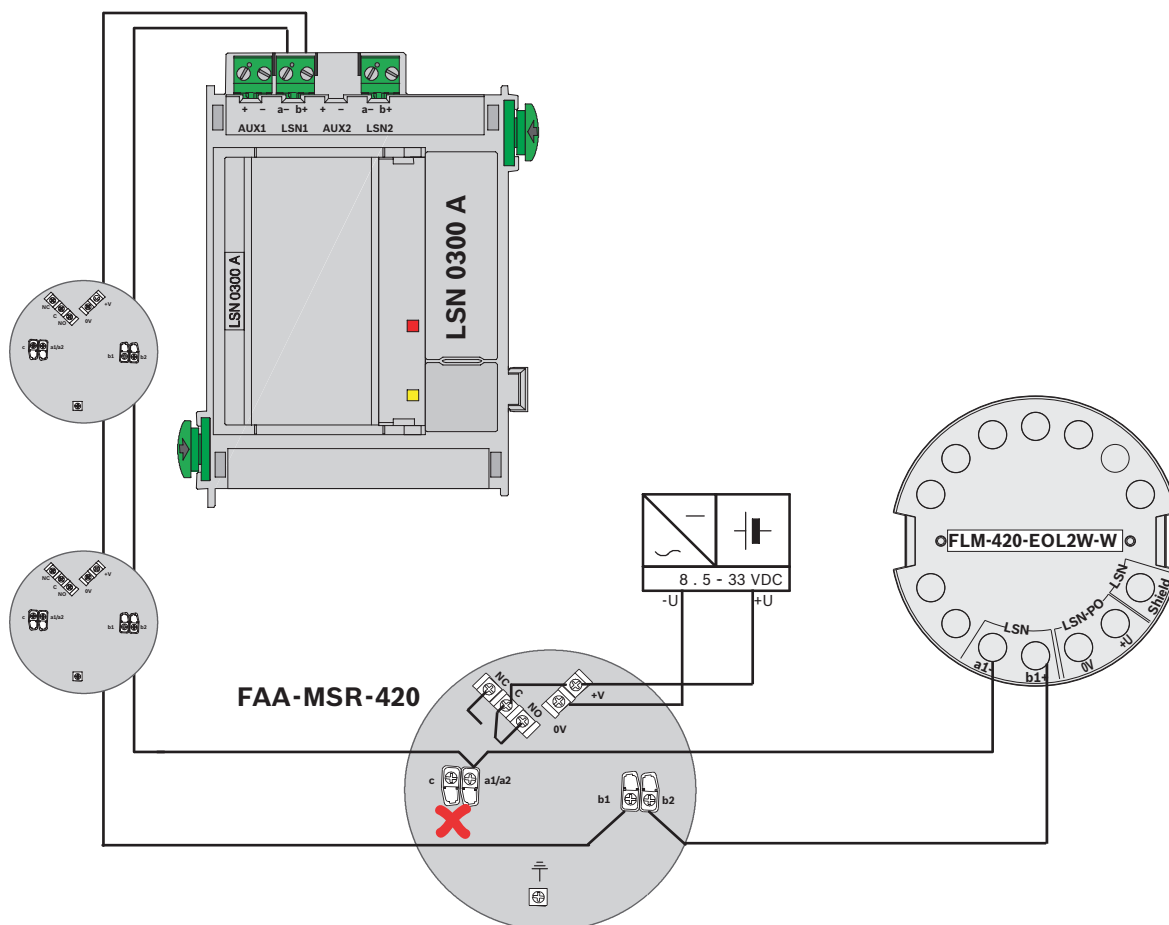




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

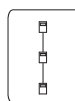


ELS VdS 2489

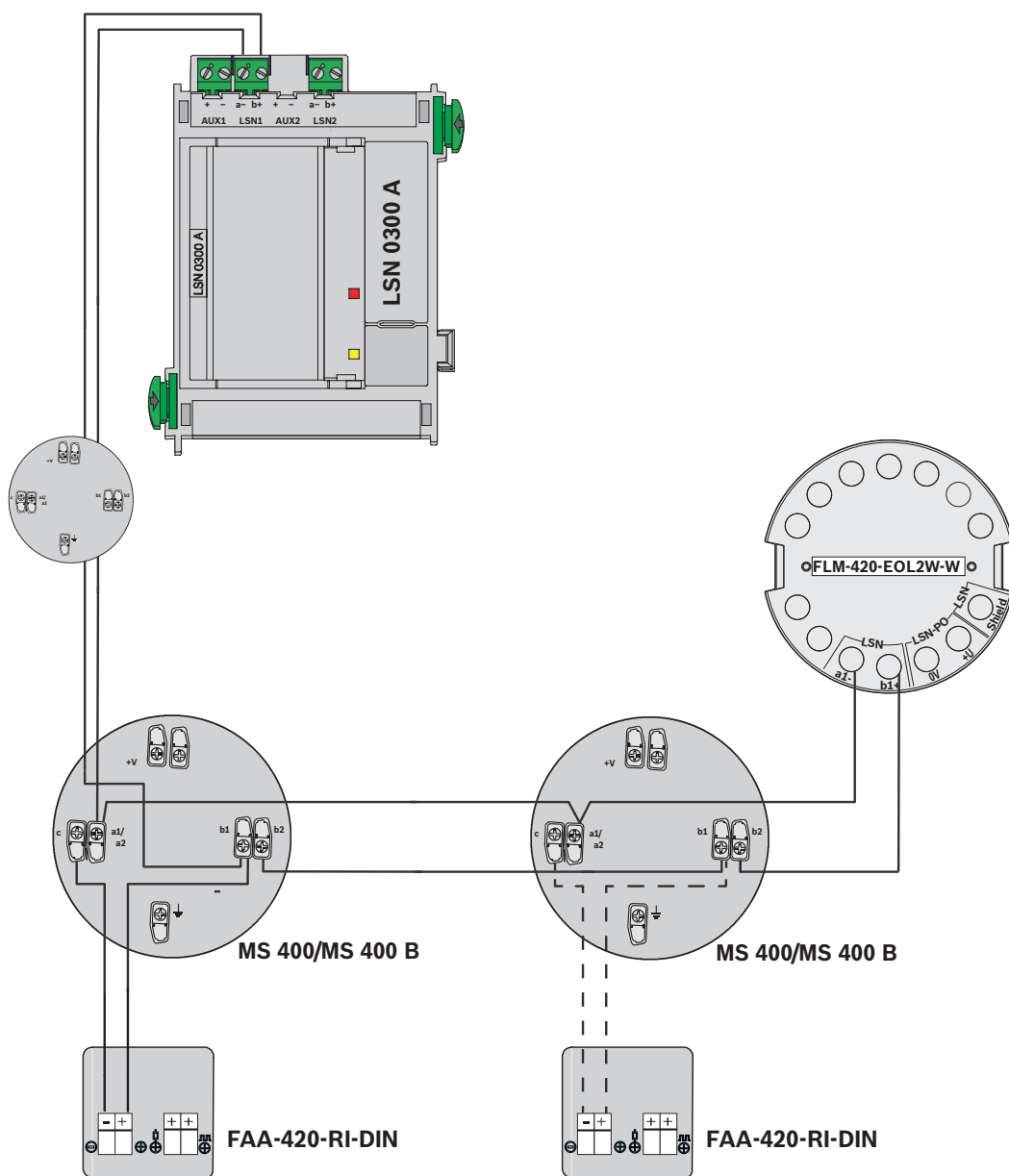


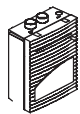


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470

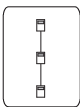


ELS VdS 2489

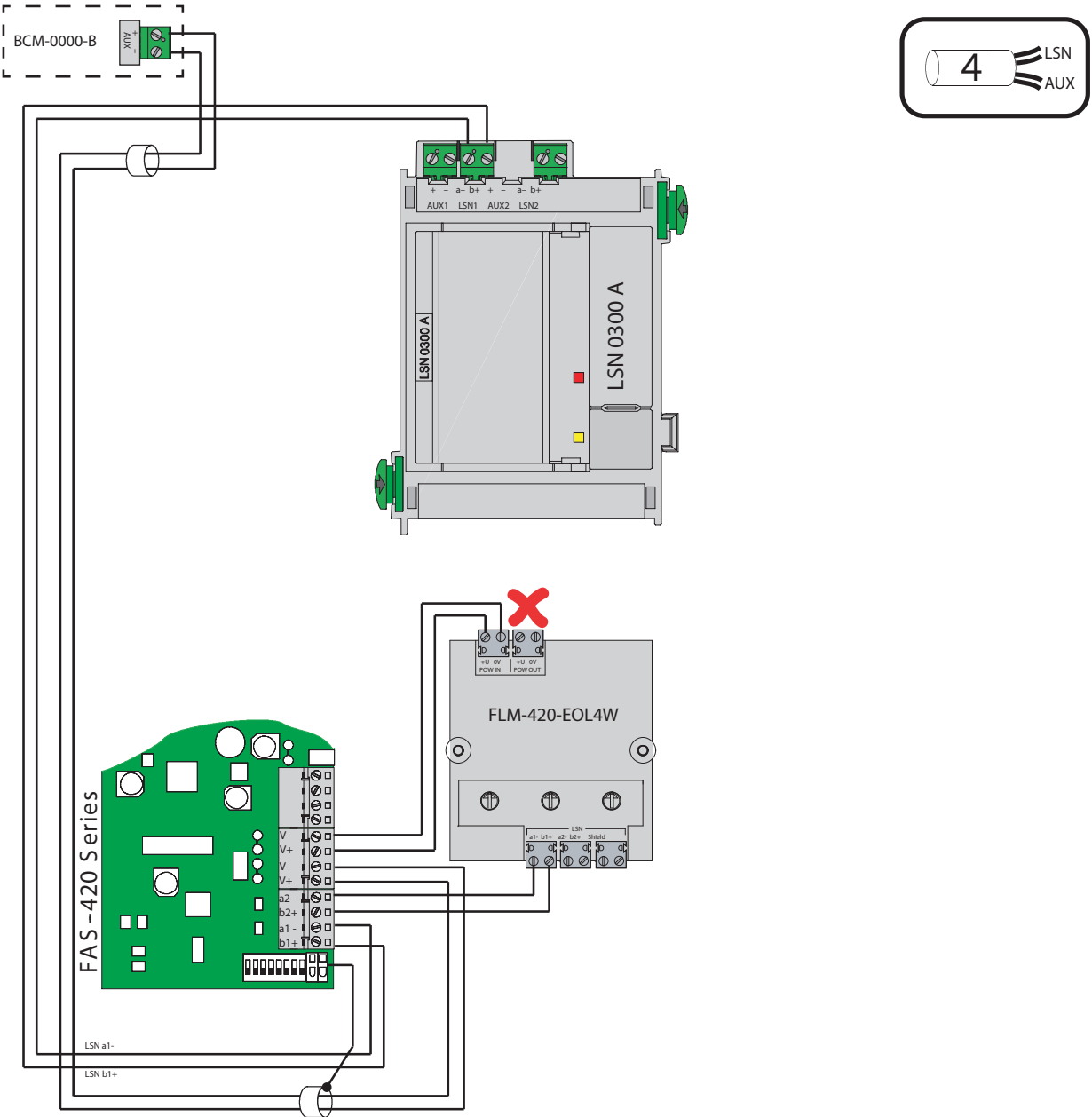


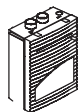


FAS-420 Series

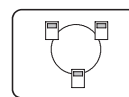


ELS VdS 2489

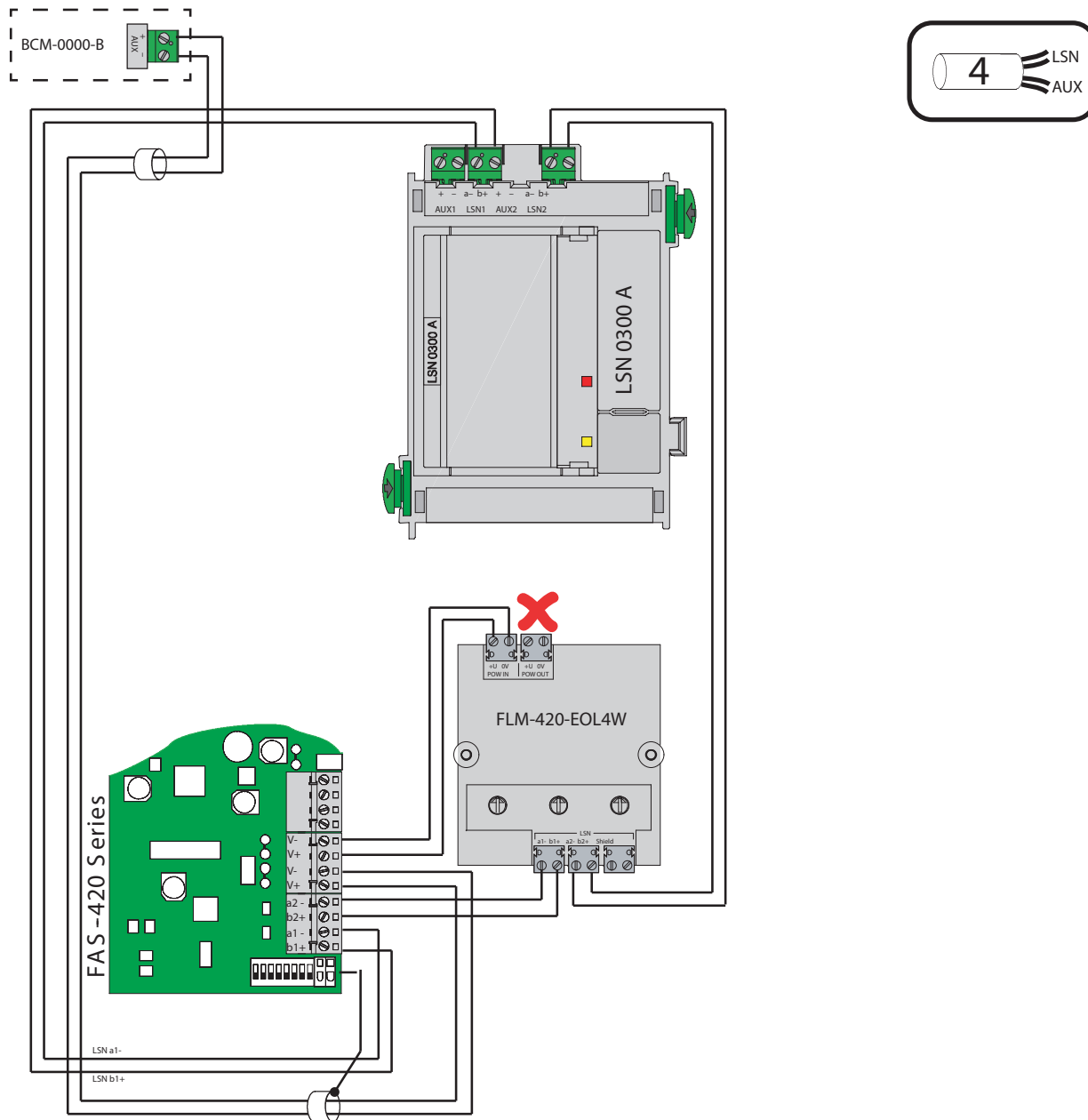


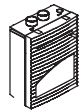


FAS-420 Series

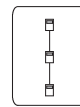


ELS VdS 2489



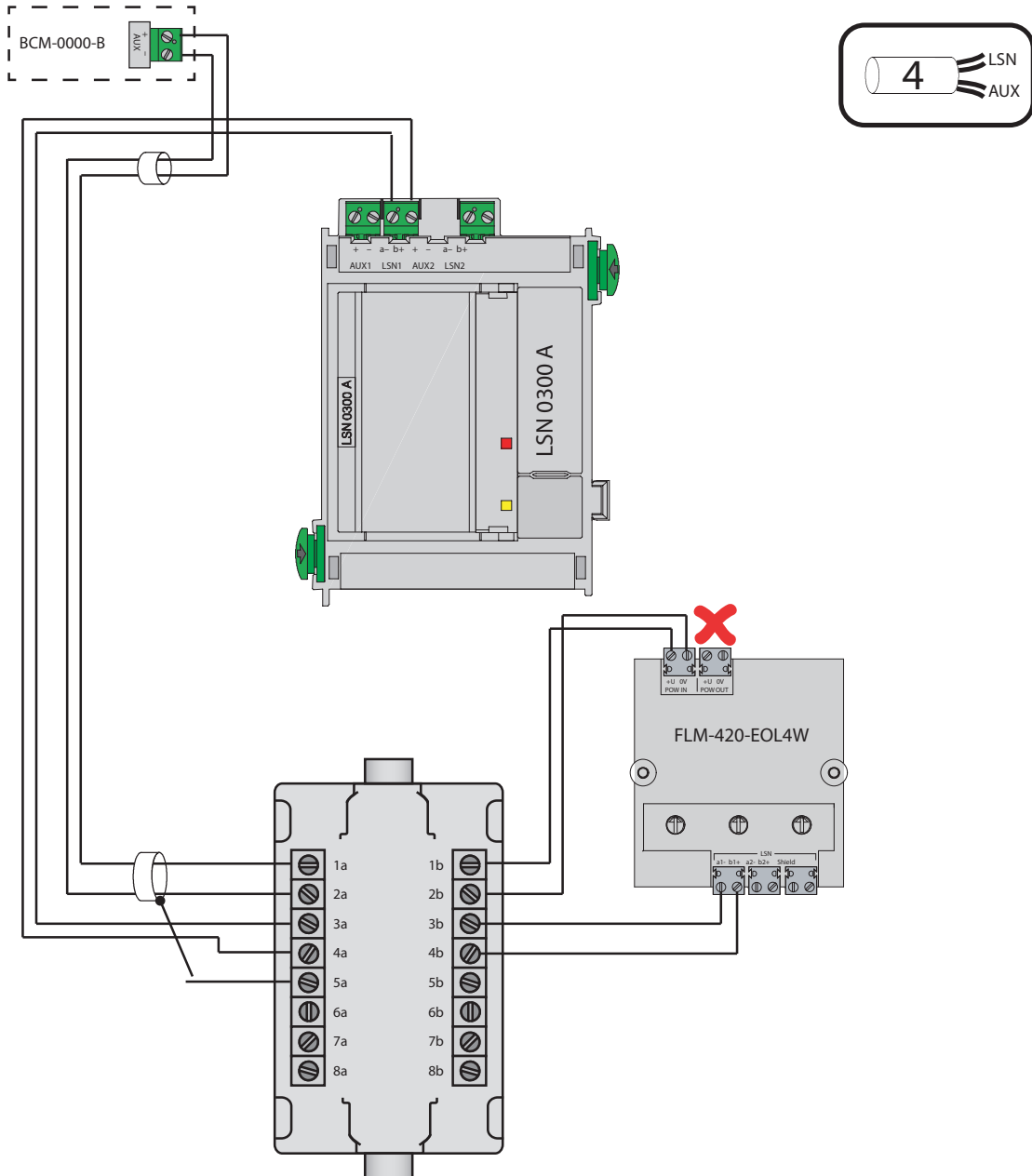


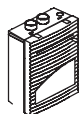
FAS-420-TM Series



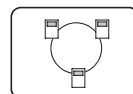
ELS

VdS 2489

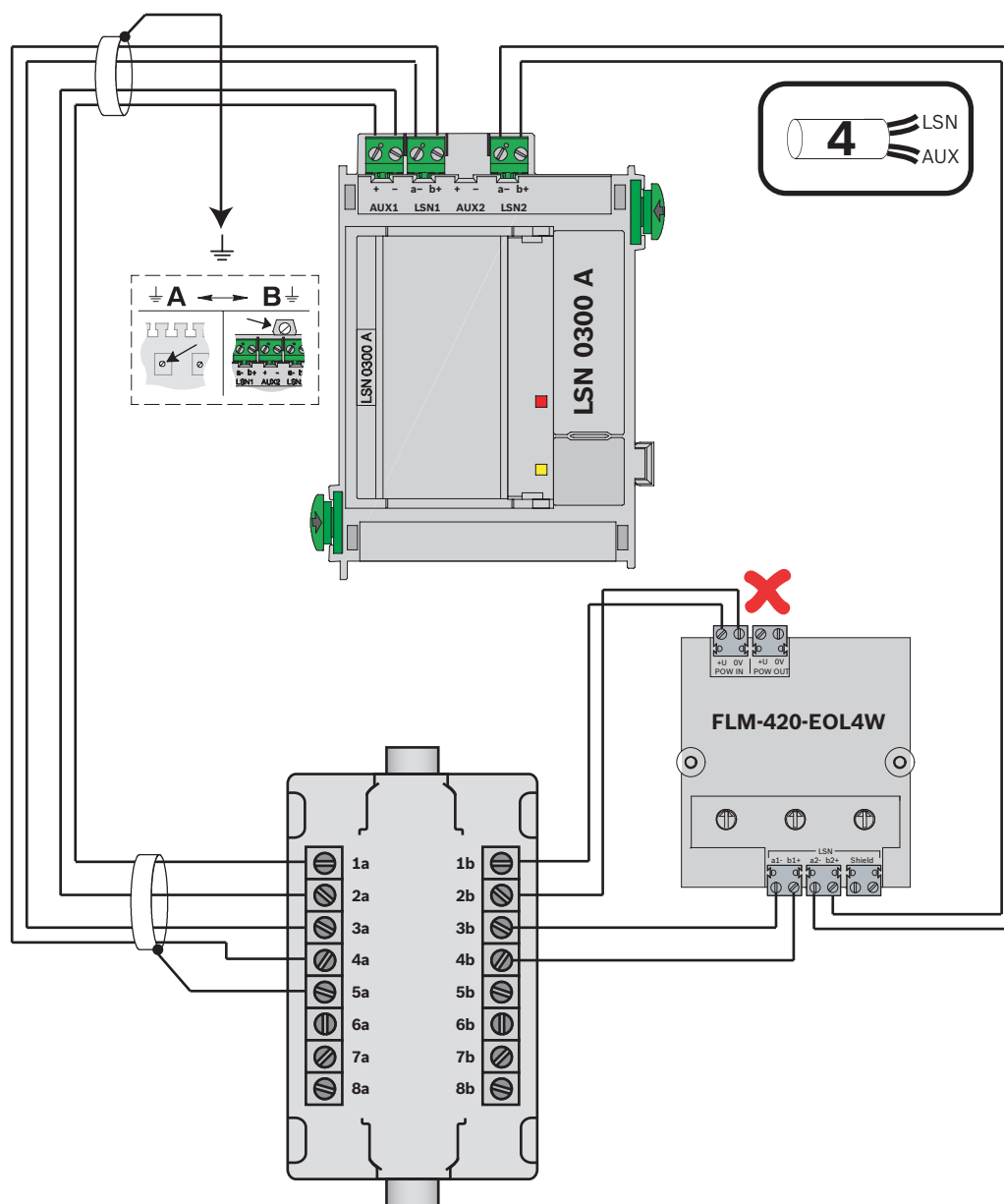


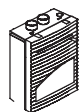


FAS-420-TM Series

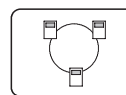


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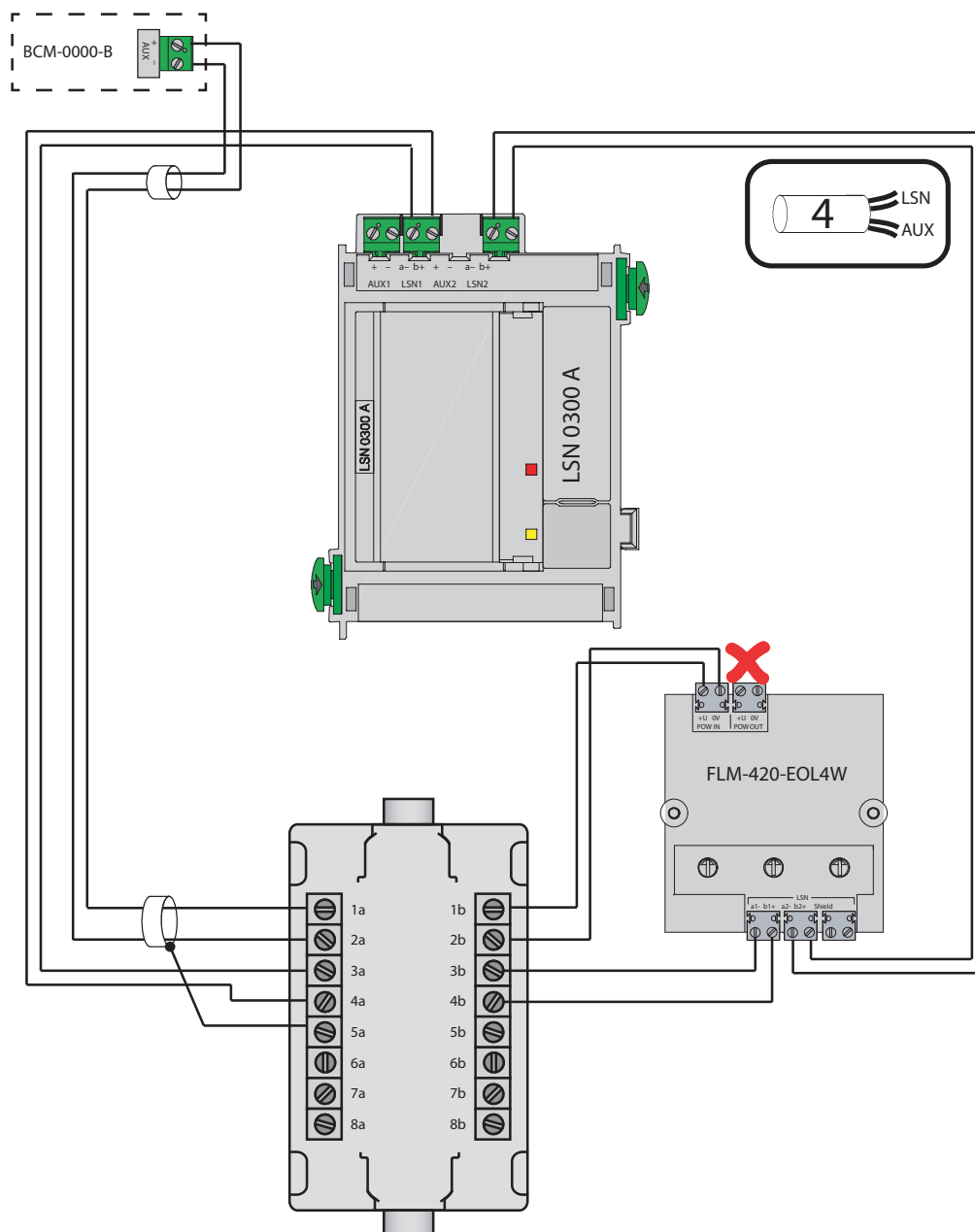


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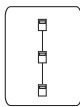
ELS

VdS 2489

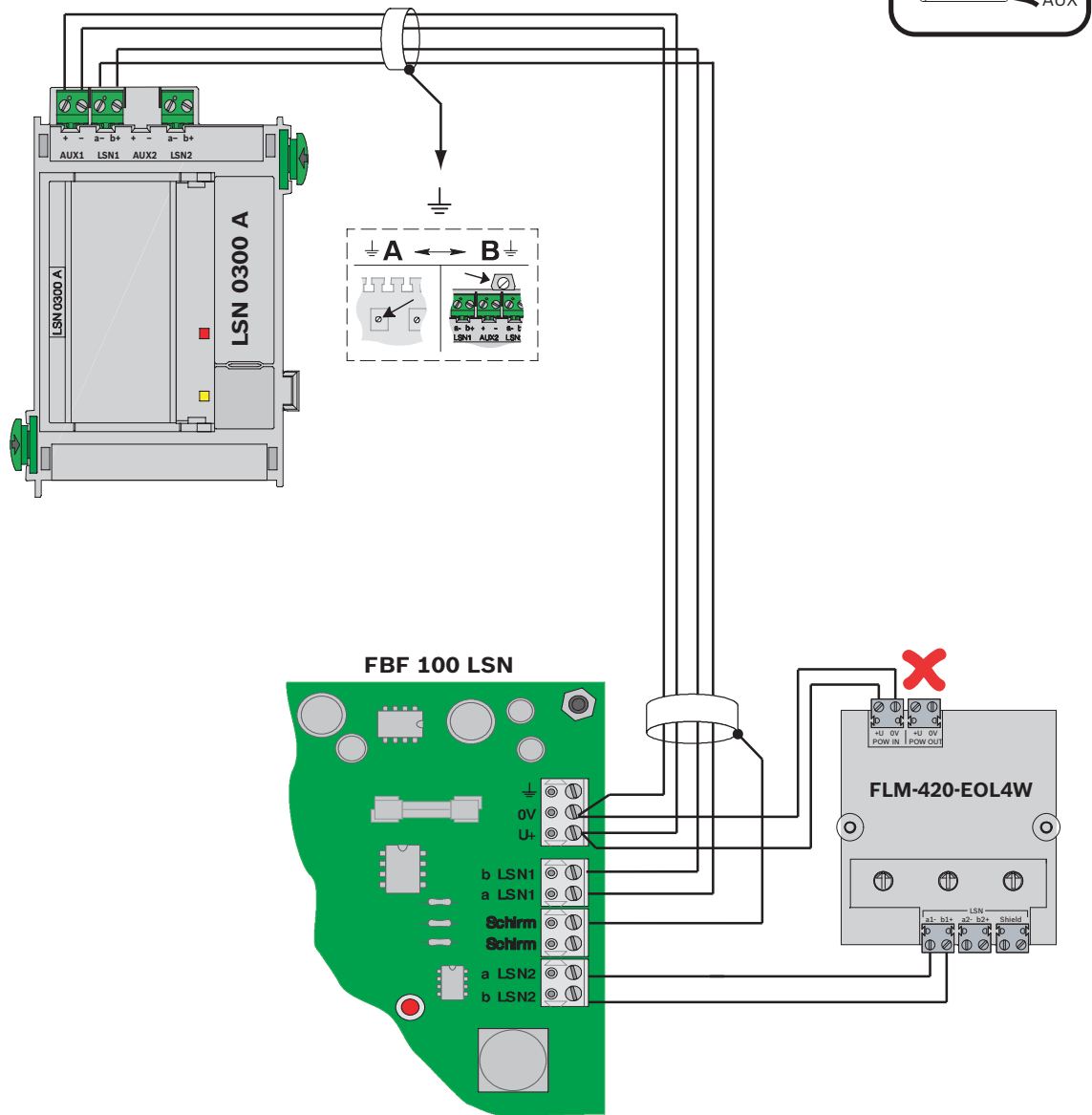




FBF 100 LSN

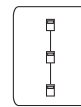


ELS VdS 2489

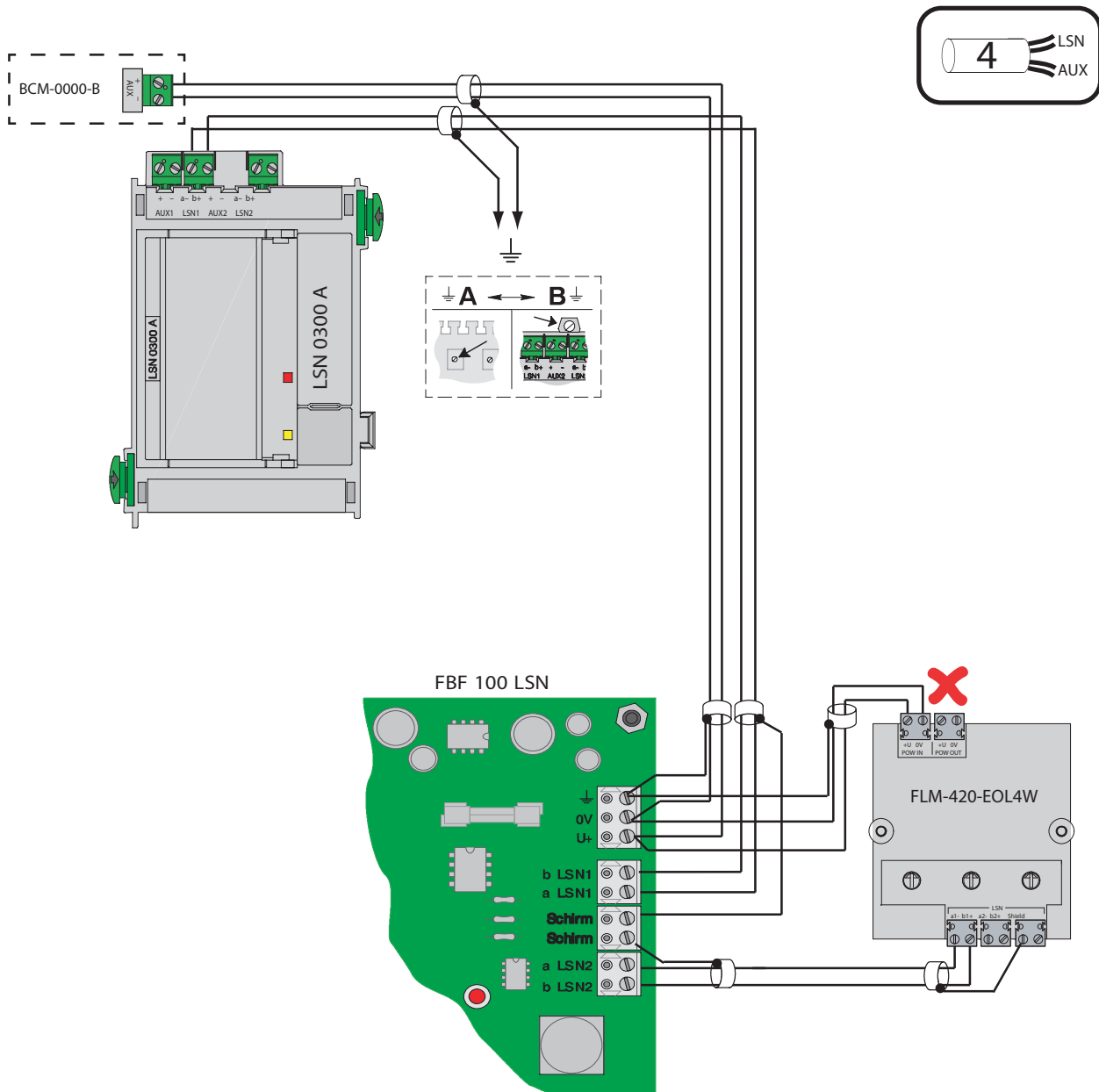


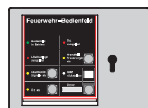


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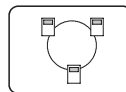


ELS VdS 2489

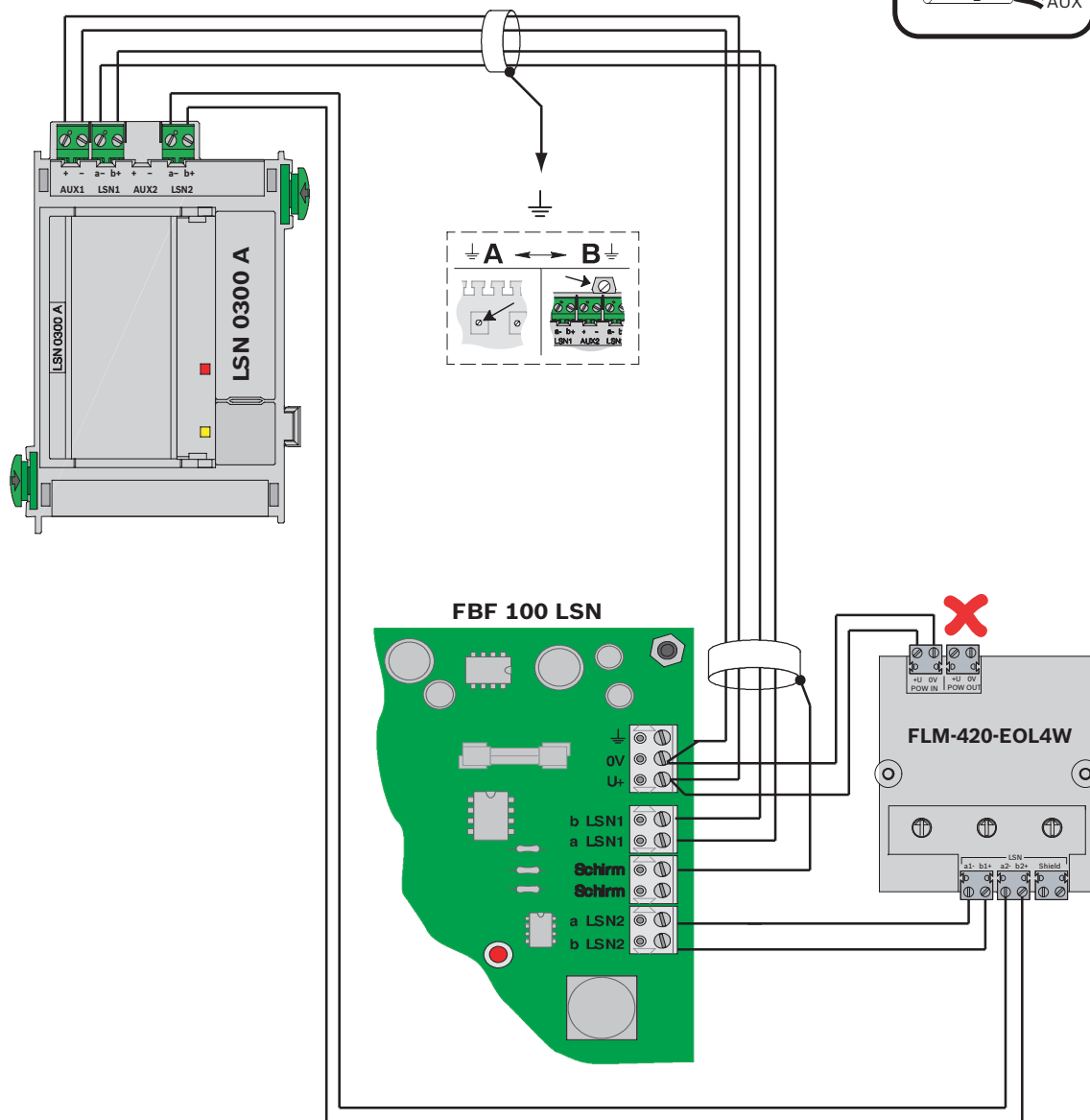


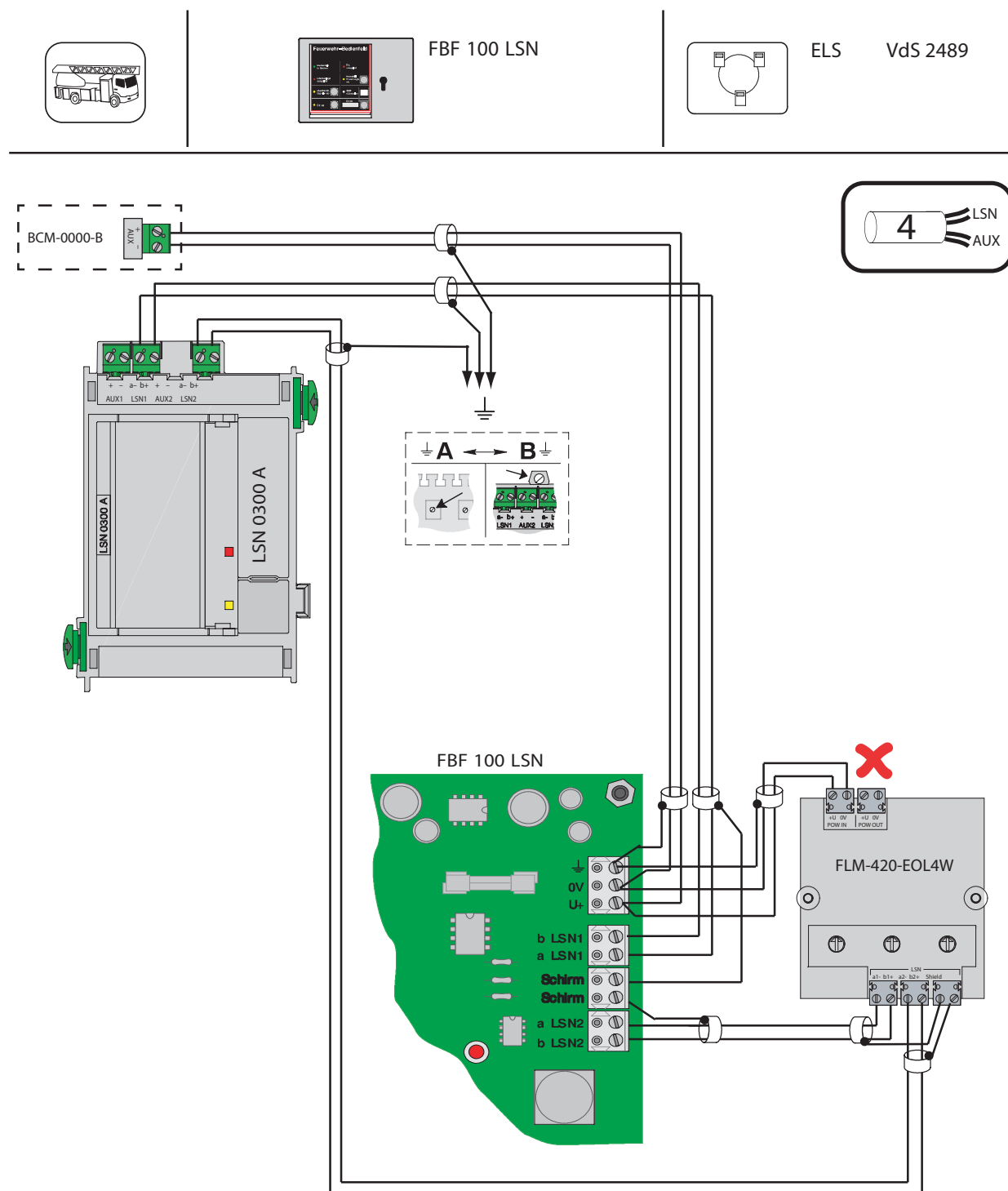


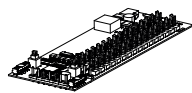
FBF 100 LSN



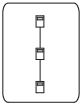
ELS VdS 2489



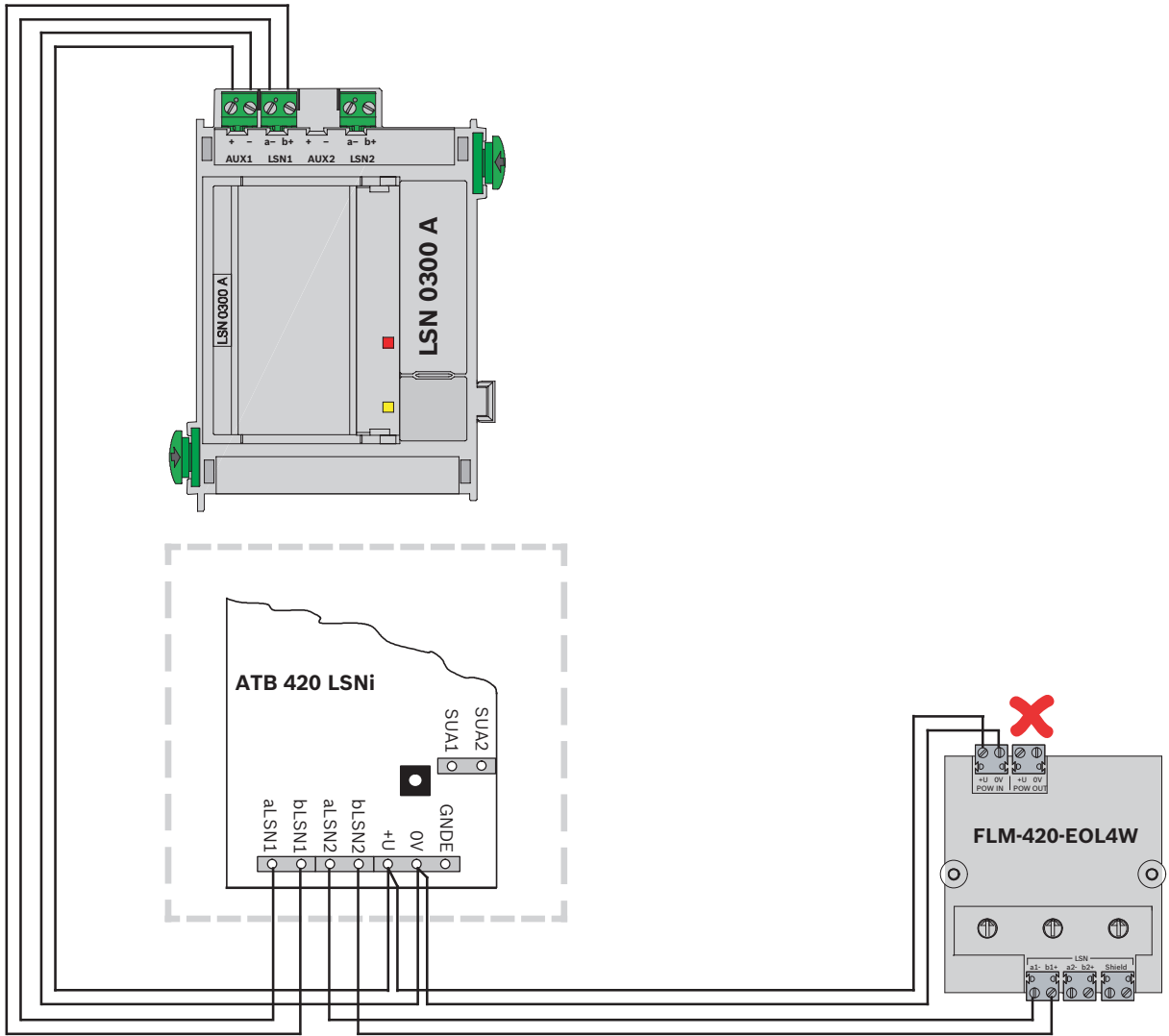


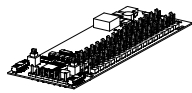


ATB 420 LSNi

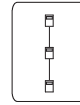


ELS VdS 2489

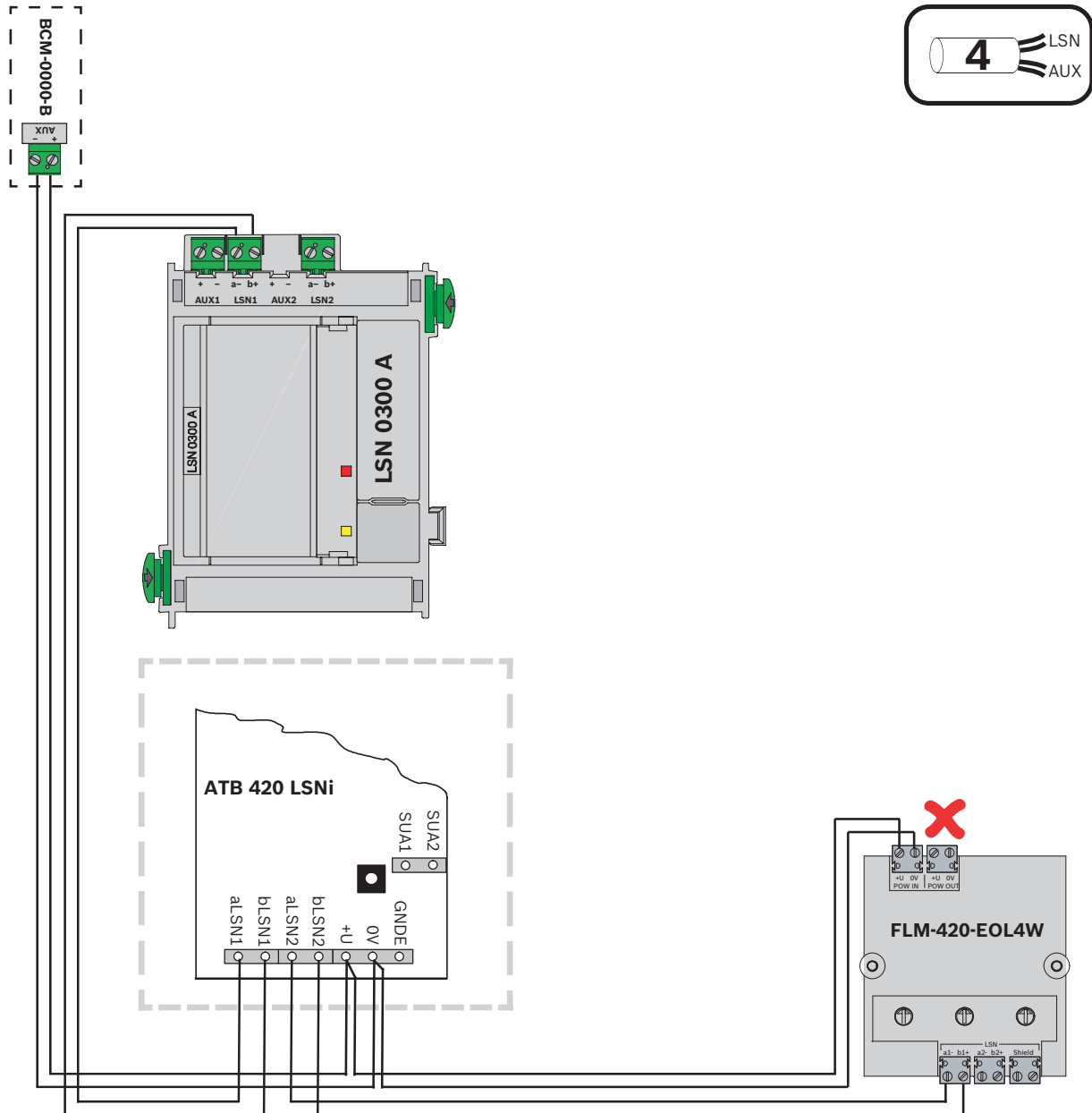


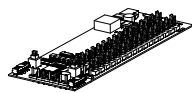


ATB 420 LSNi

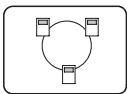


ELS VdS 2489

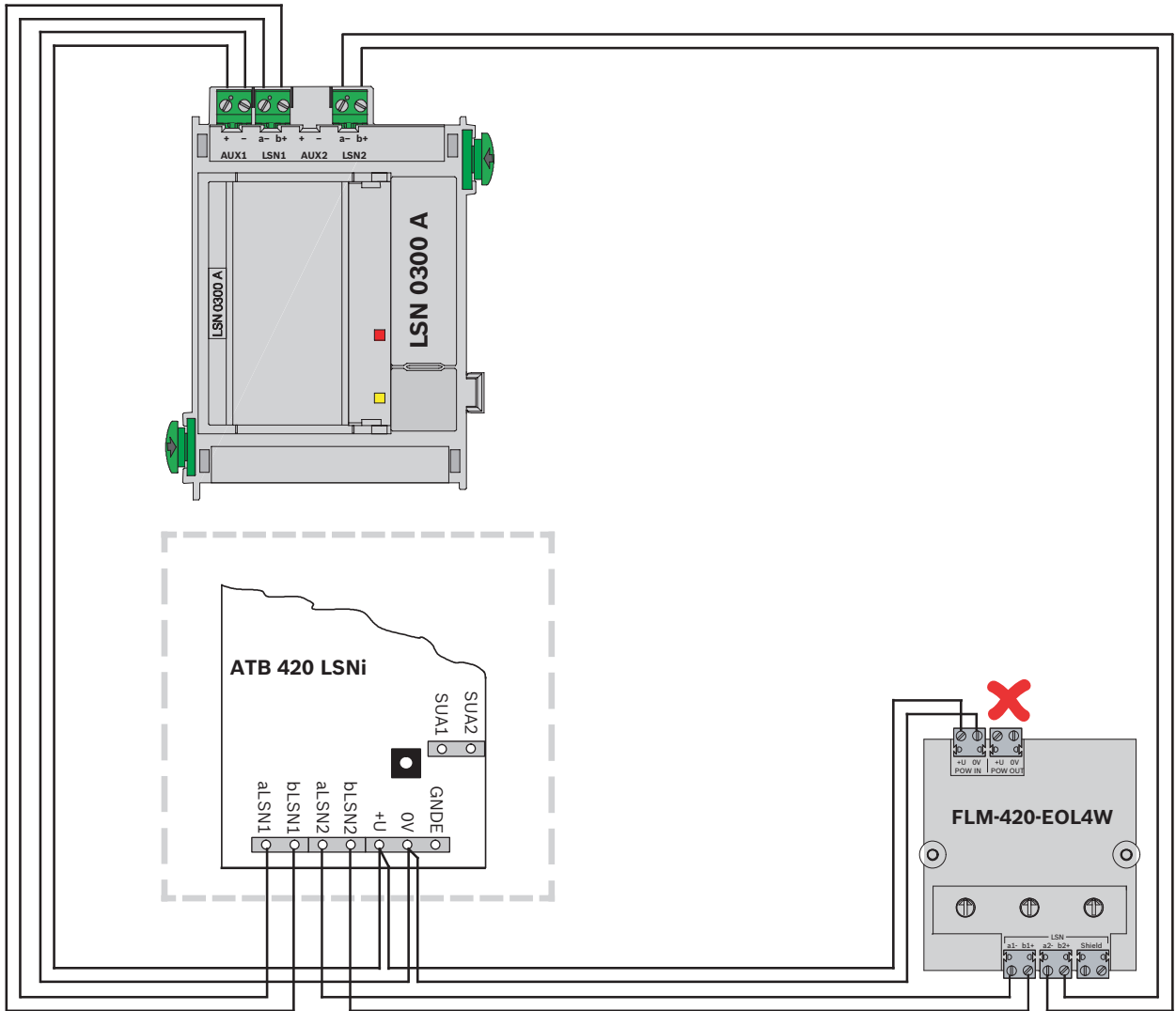


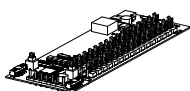
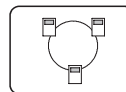
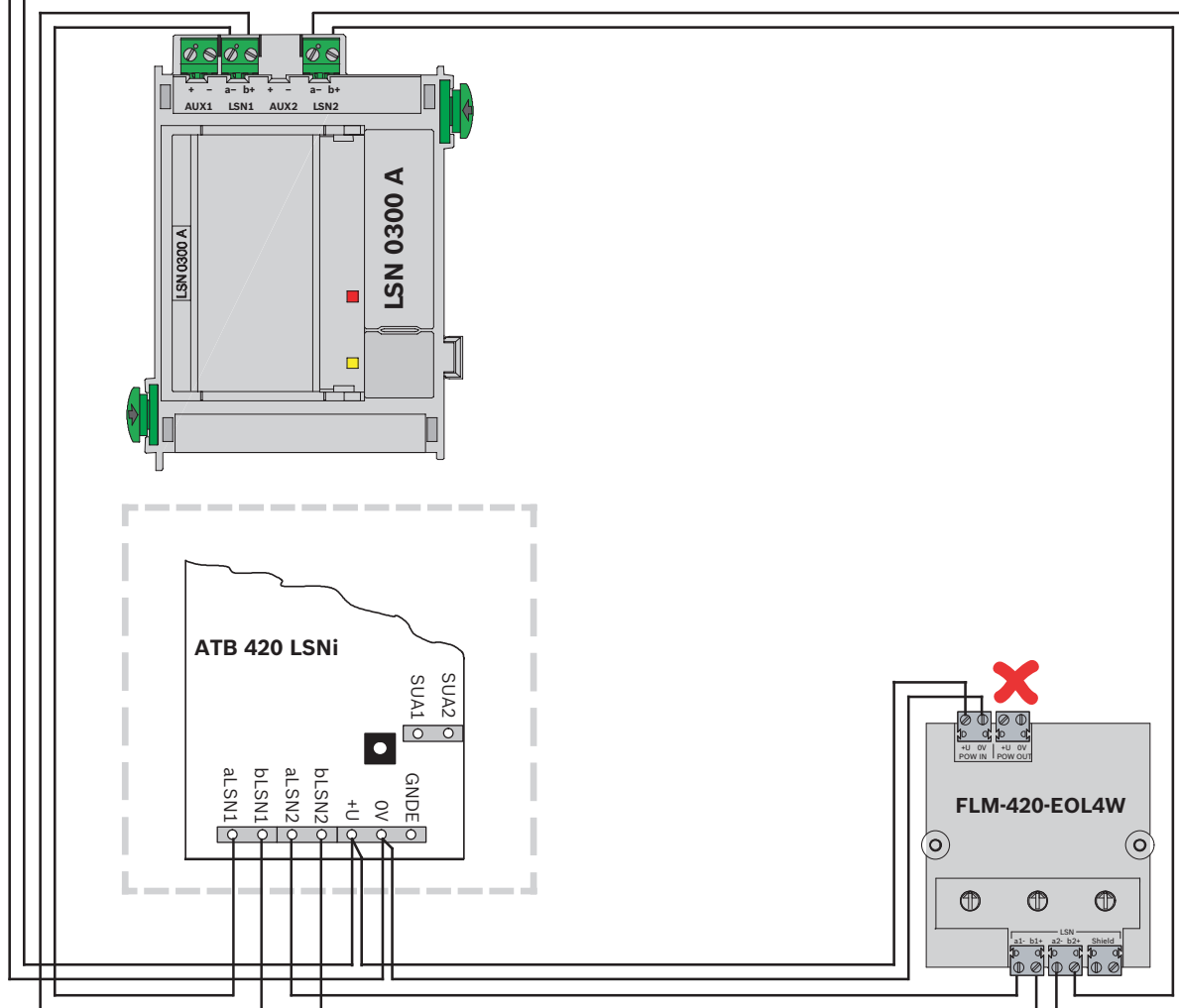
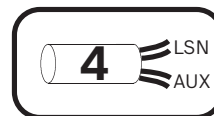
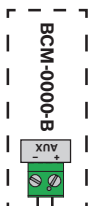


ATB 420 LSNi



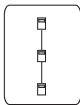
ELS VdS 2489



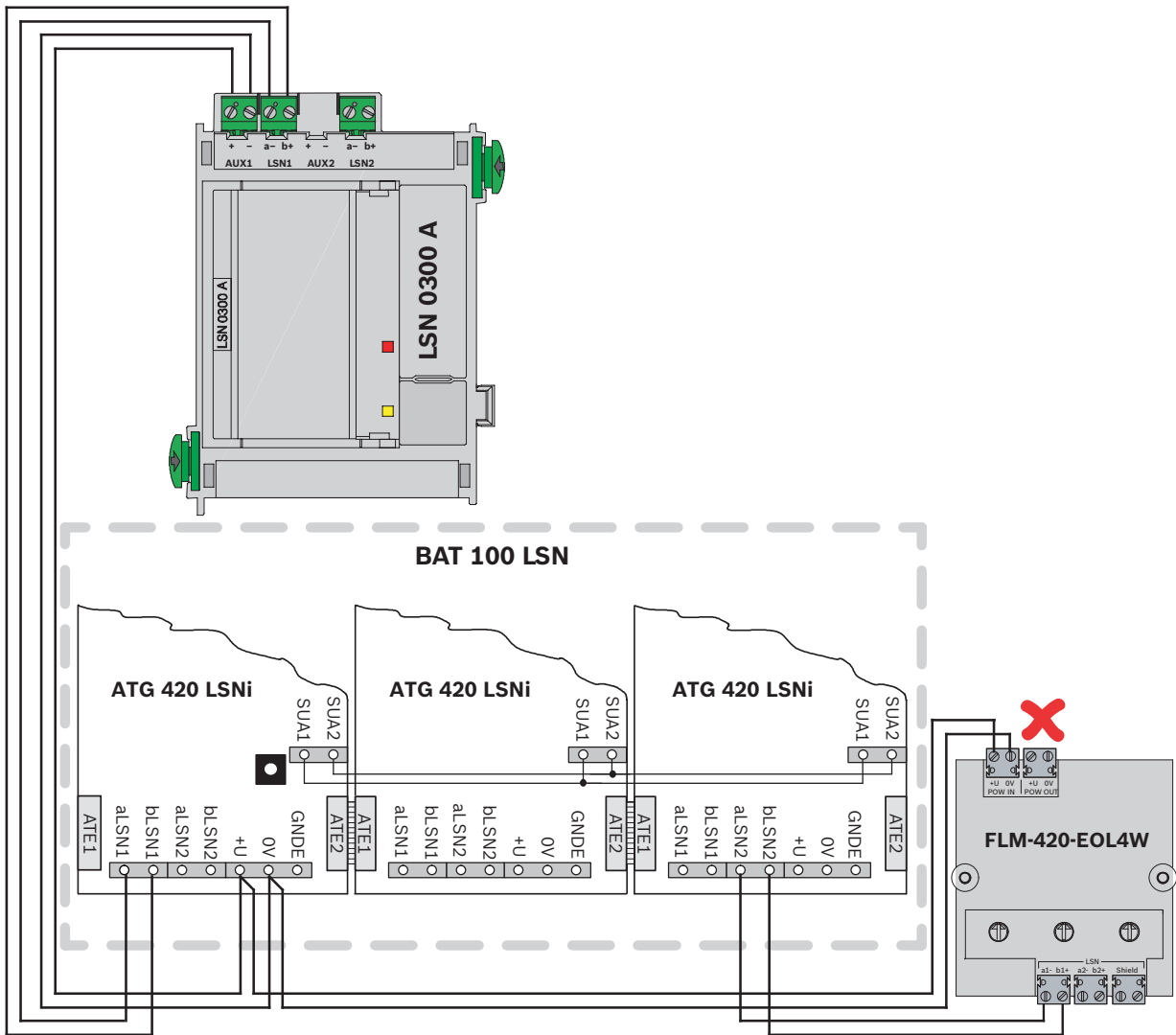

ATB 420 LSNi

ELS VdS 2489


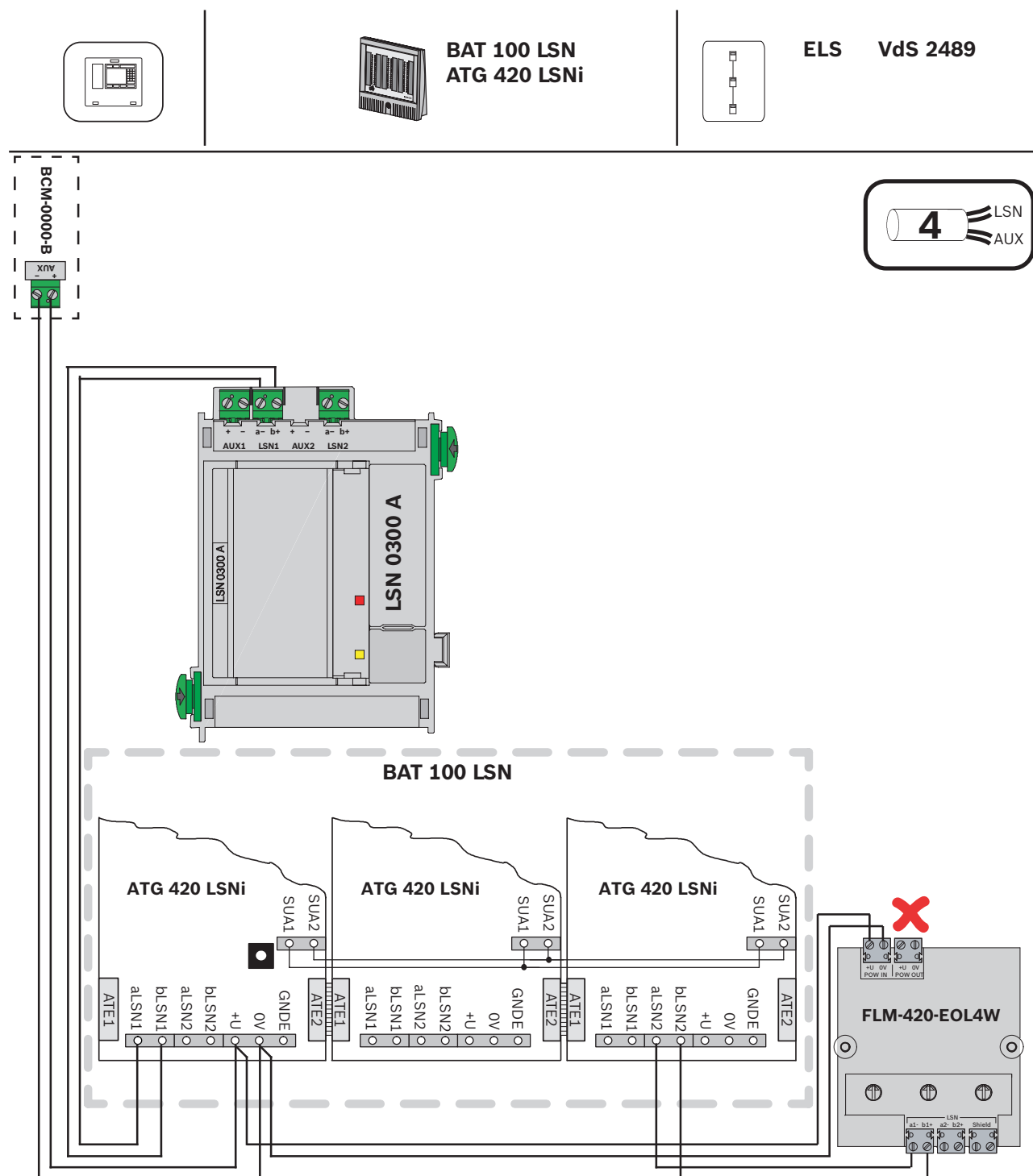


BAT 100 LSN
ATG 420 LSNi



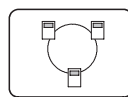
ELS VdS 2489



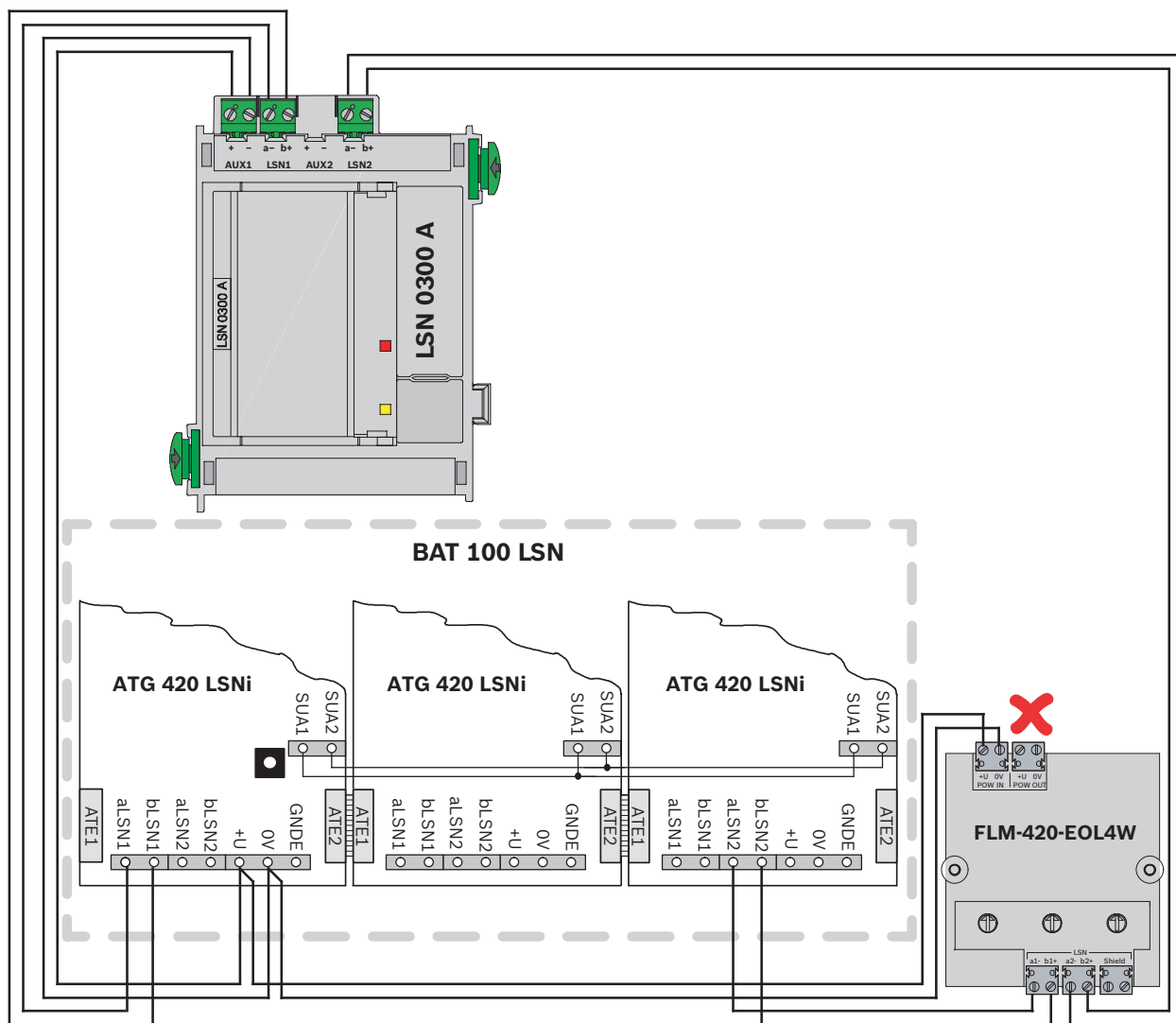
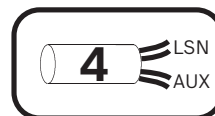




BAT 100 LSN
ATG 420 LSNi

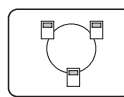


ELS VdS 2489

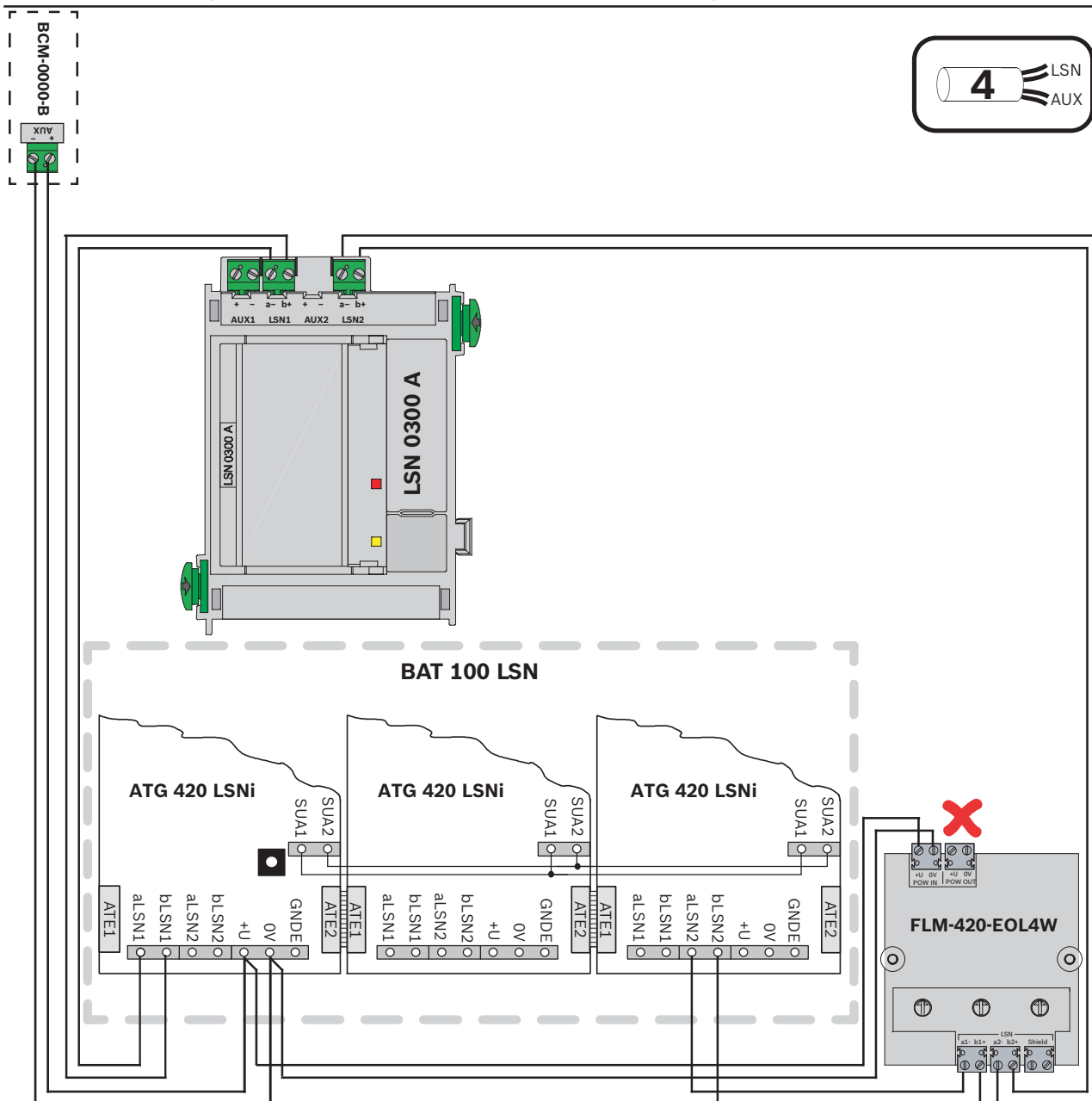
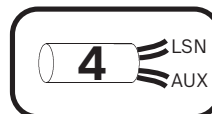


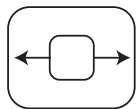


BAT 100 LSN
ATG 420 LSNi

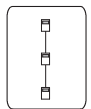


ELS VdS 2489

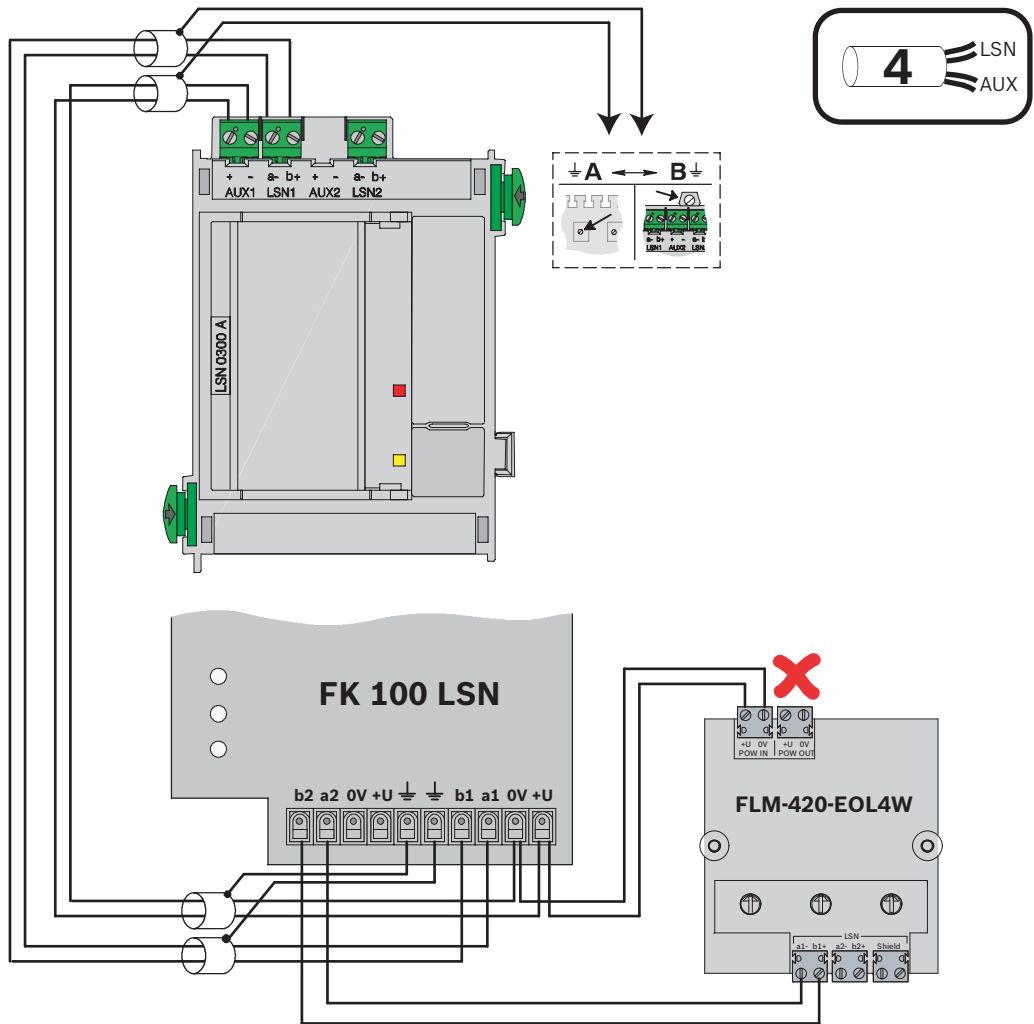
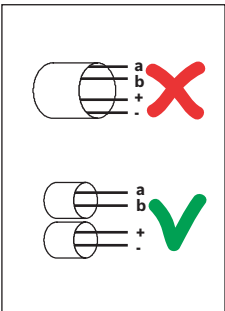


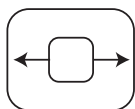
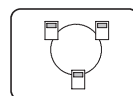
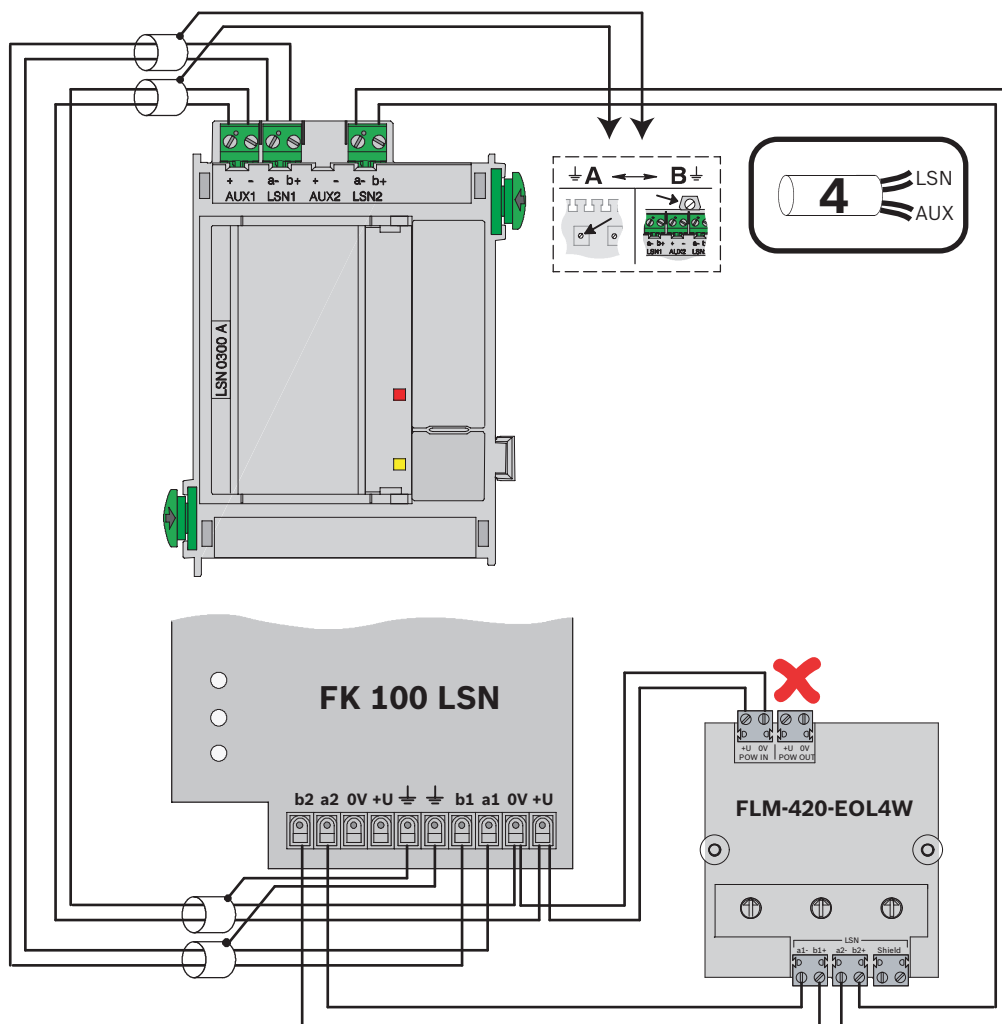
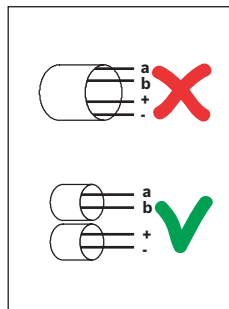


FK 100 LSN



ELS VdS 2489

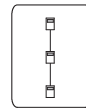


**FK 100 LSN****ELS VdS 2489**

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

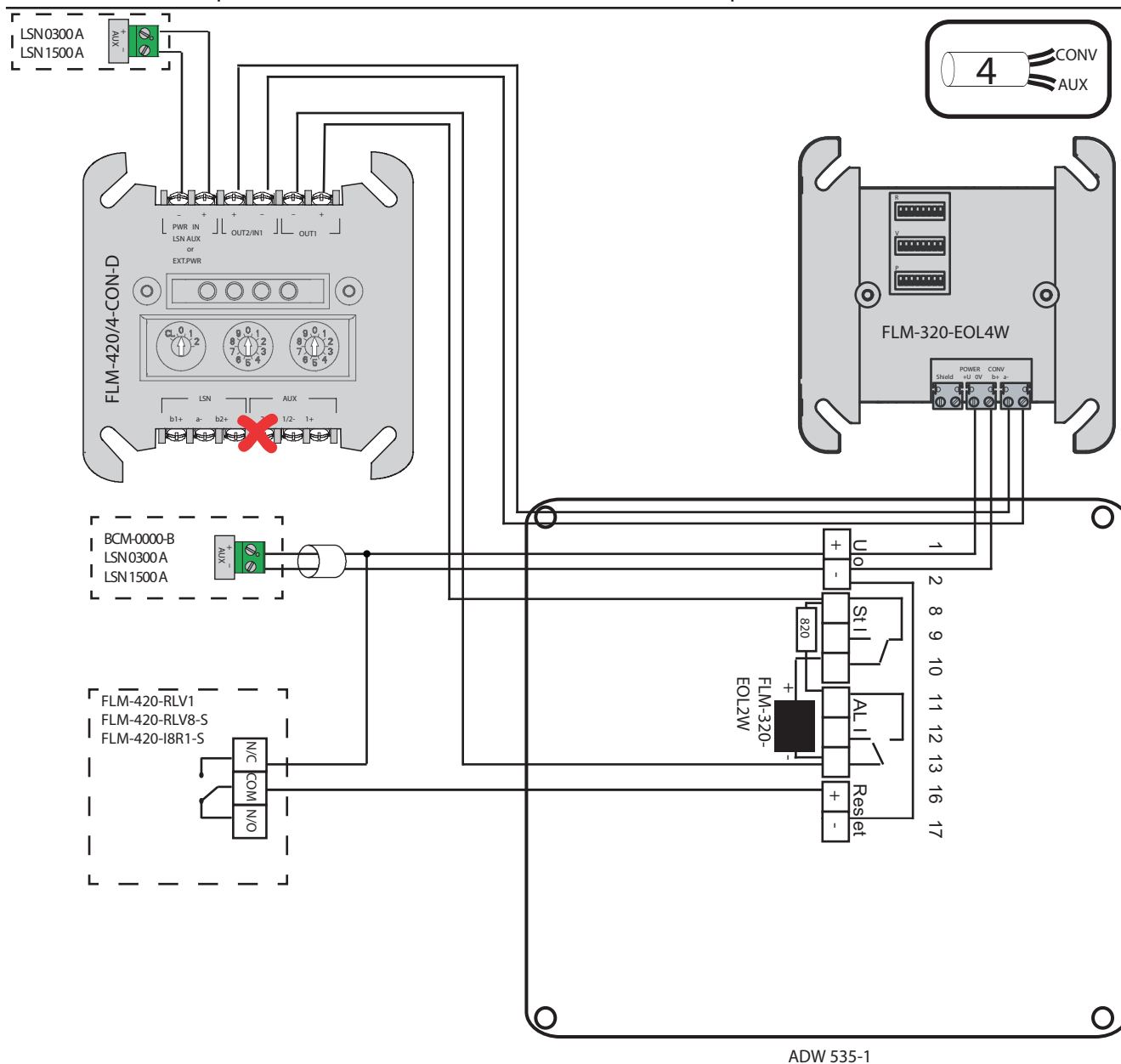


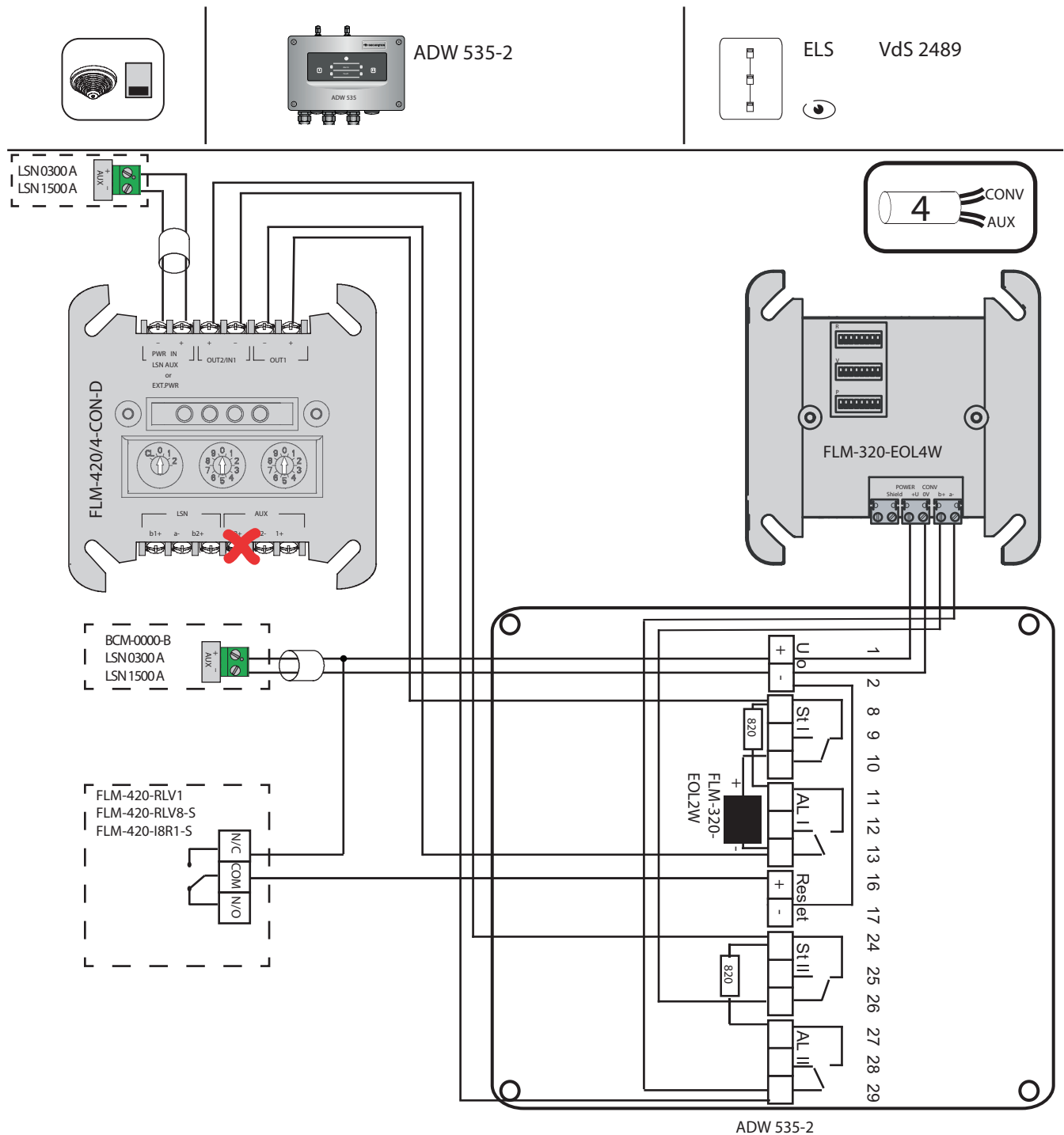
ADW 535-1

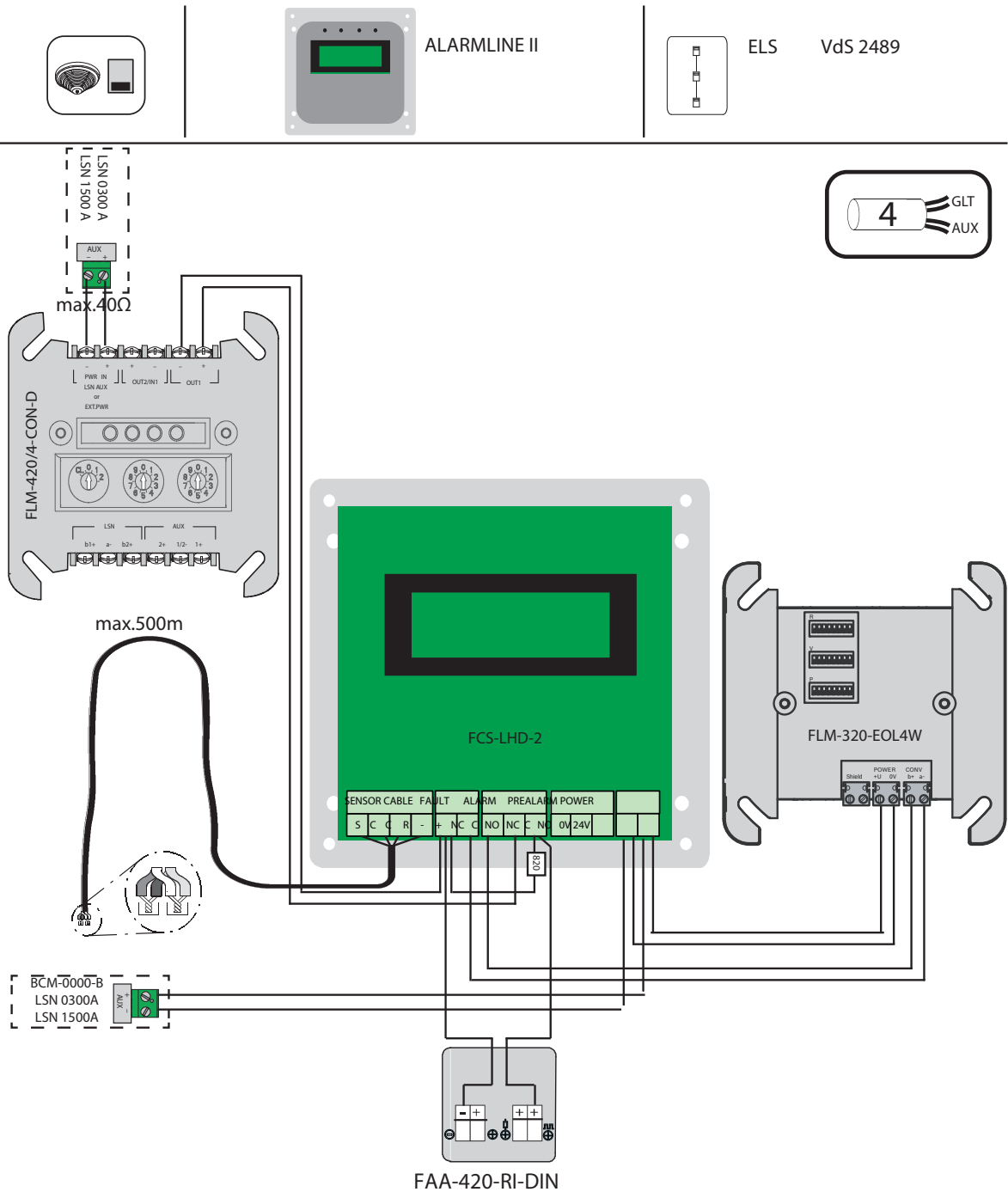


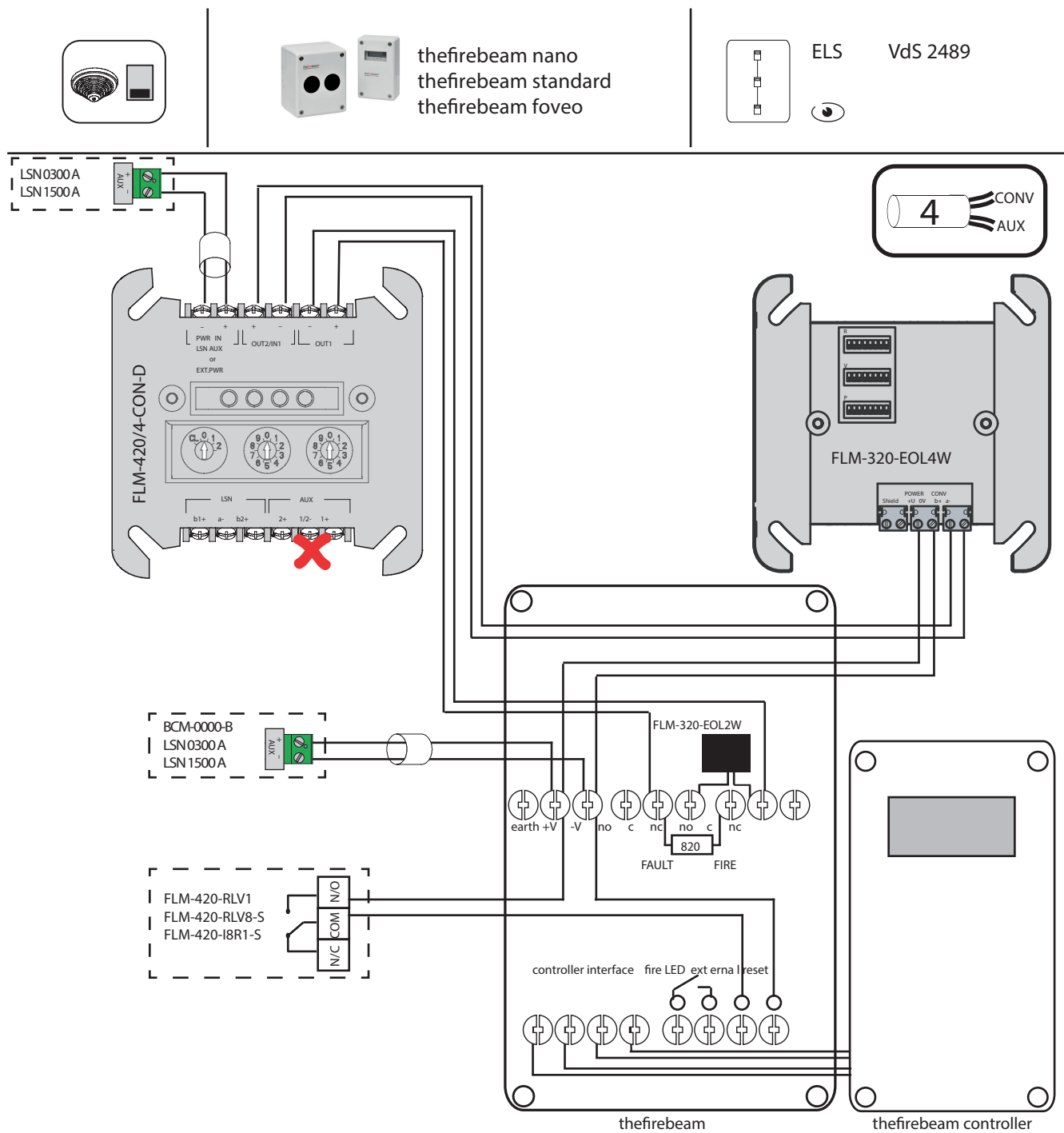
ELS

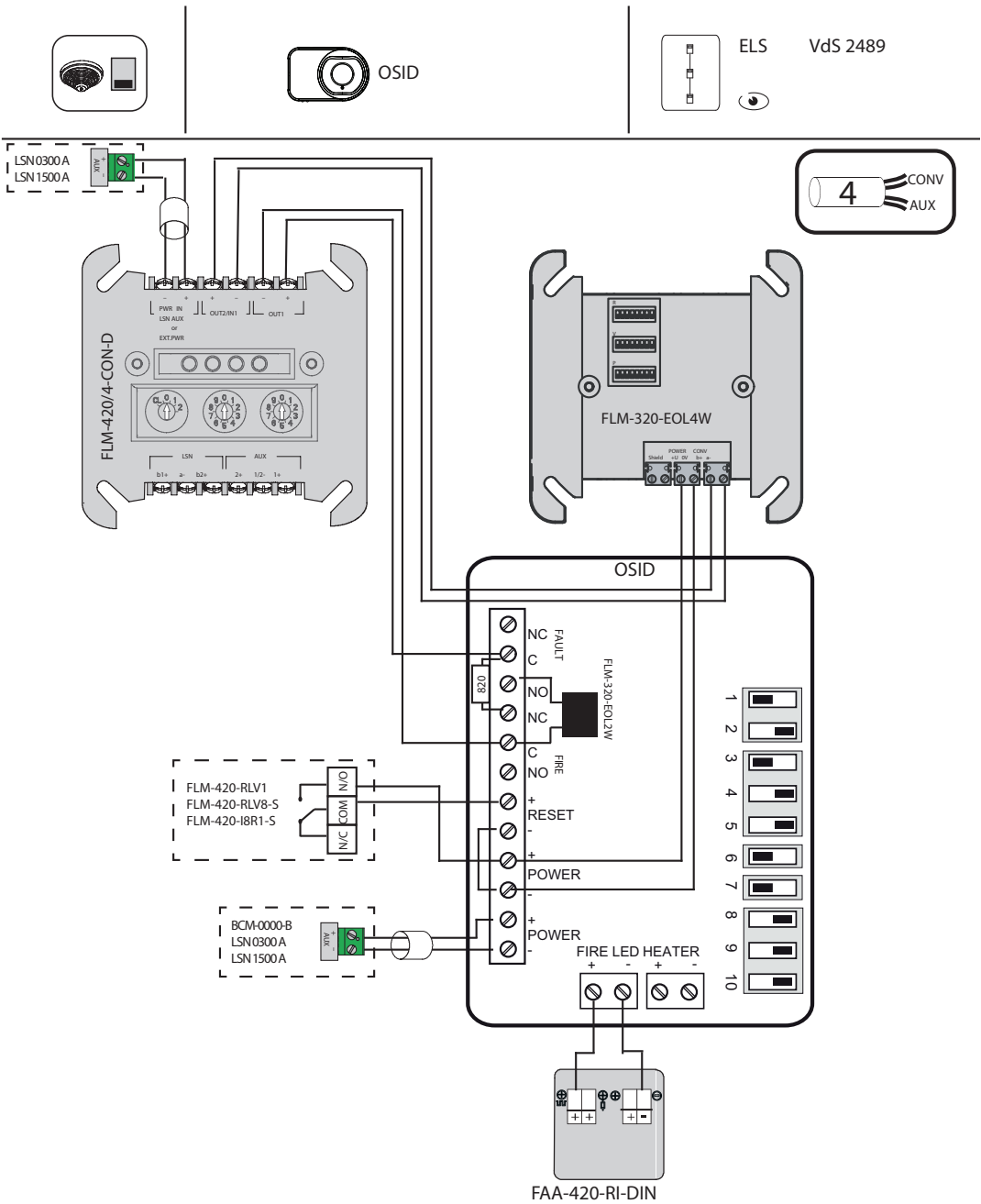
VdS 2489





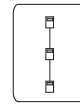






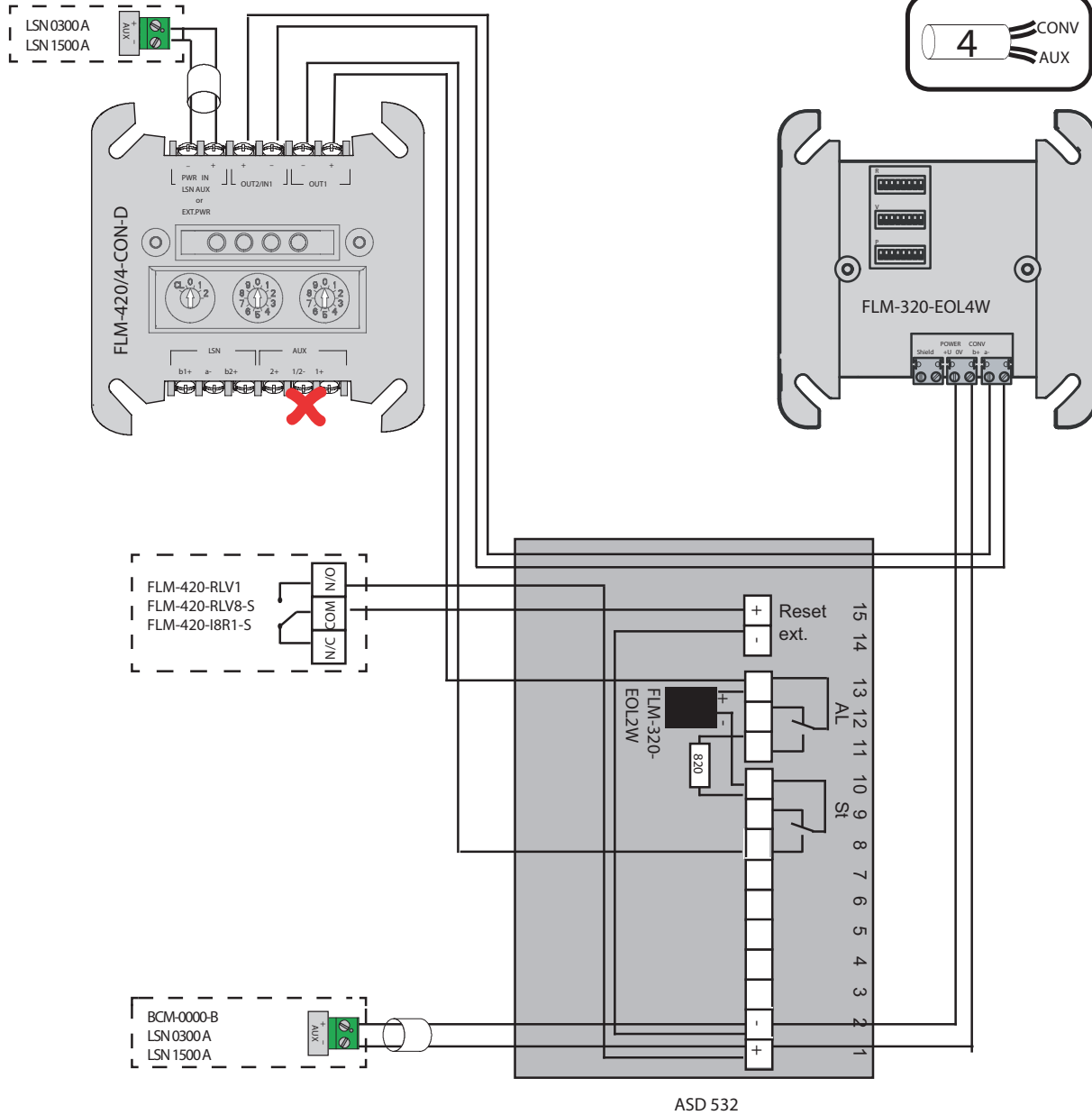


ASD 532



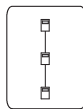
ELS

VdS 2489





ASD 535-1

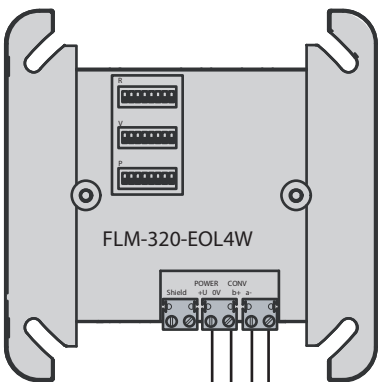
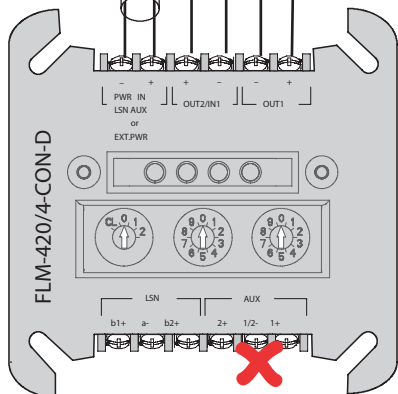


ELS

VdS 2489

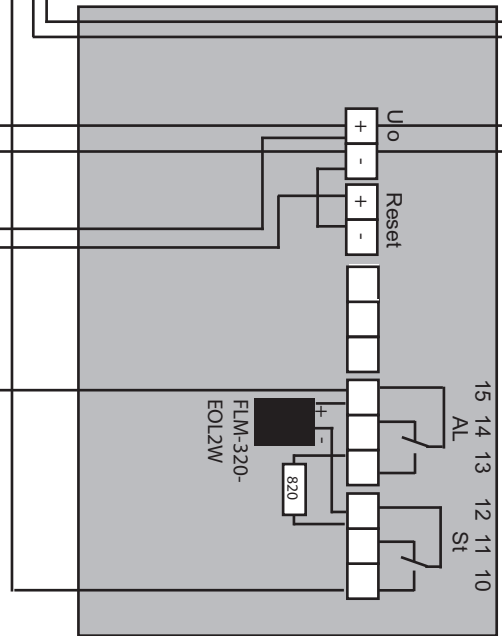


LSN 0300 A
LSN 1500 A



BCM-0000-B
LSN 0300 A
LSN 1500 A

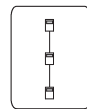
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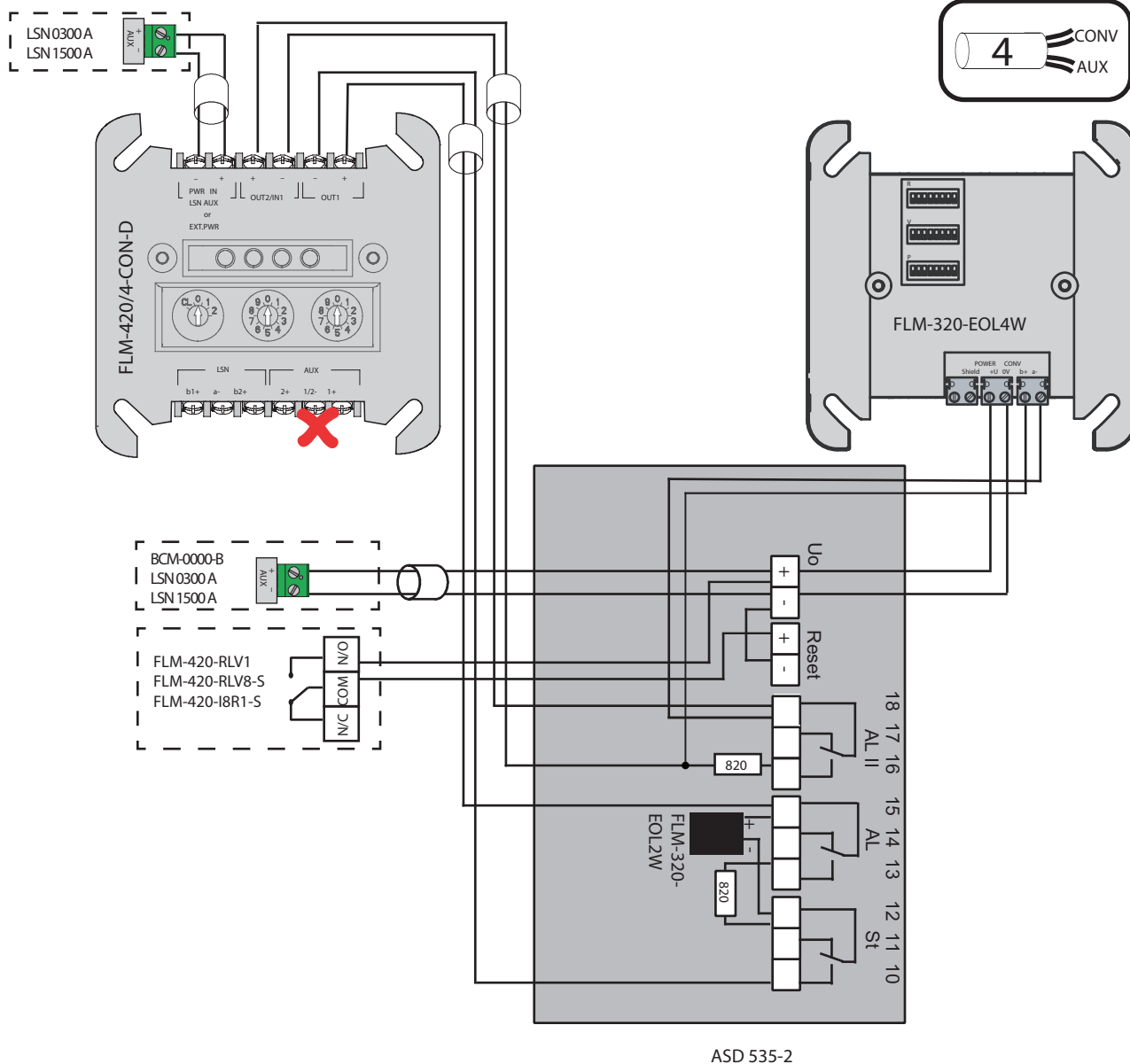
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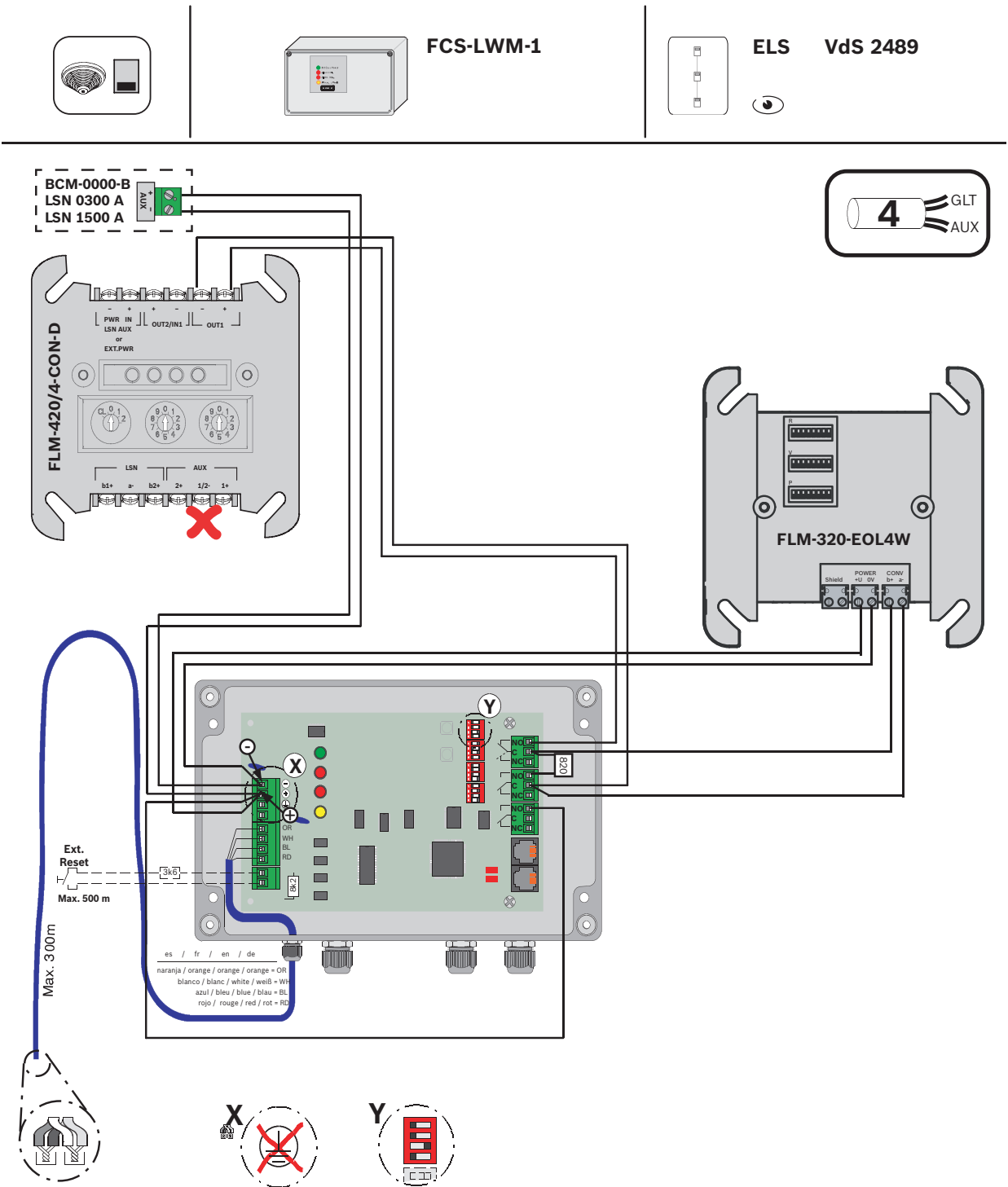
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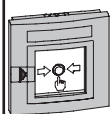
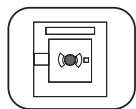


ELS VdS 2489

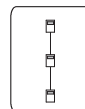


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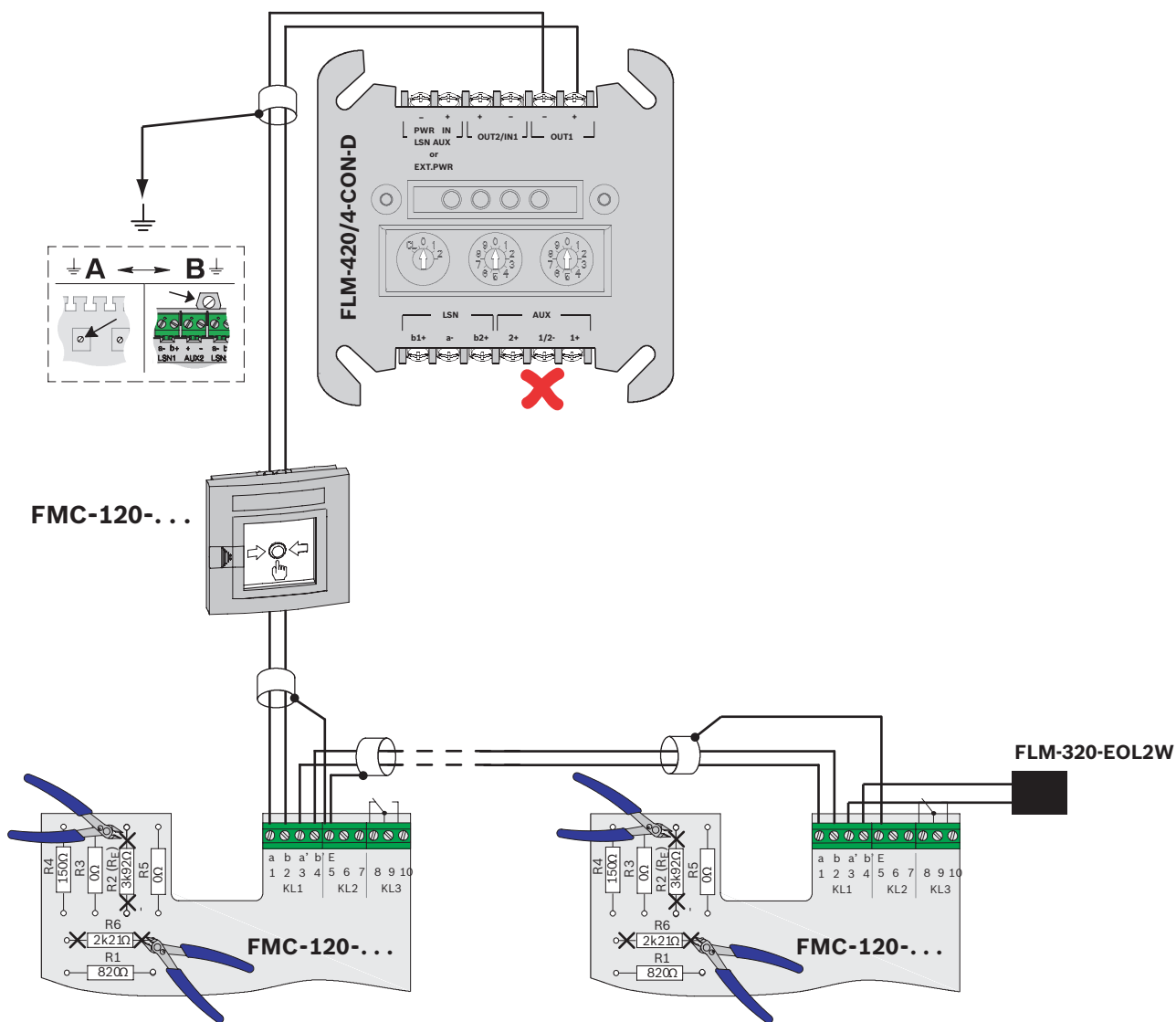


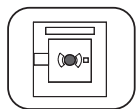
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FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



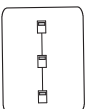
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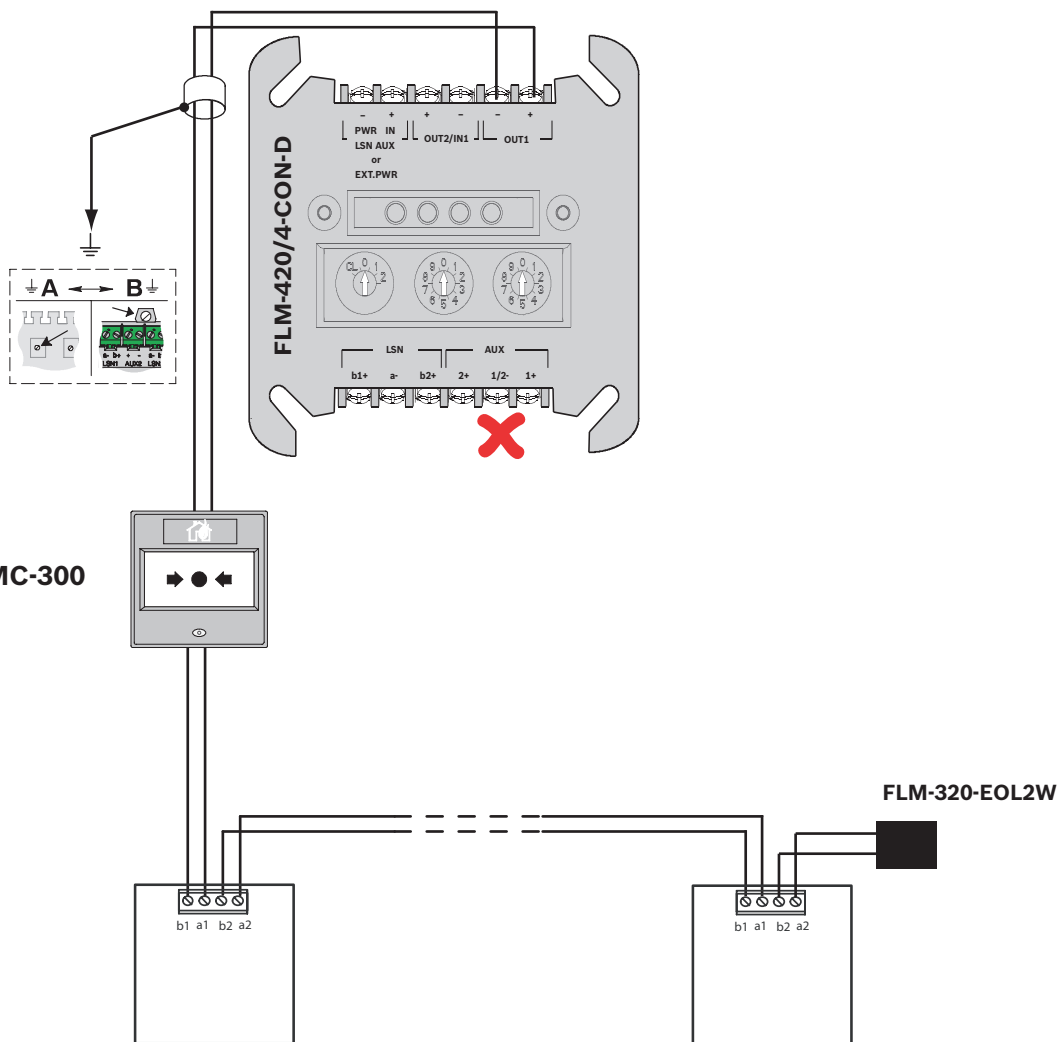




FMC-300



ELS VdS 2489

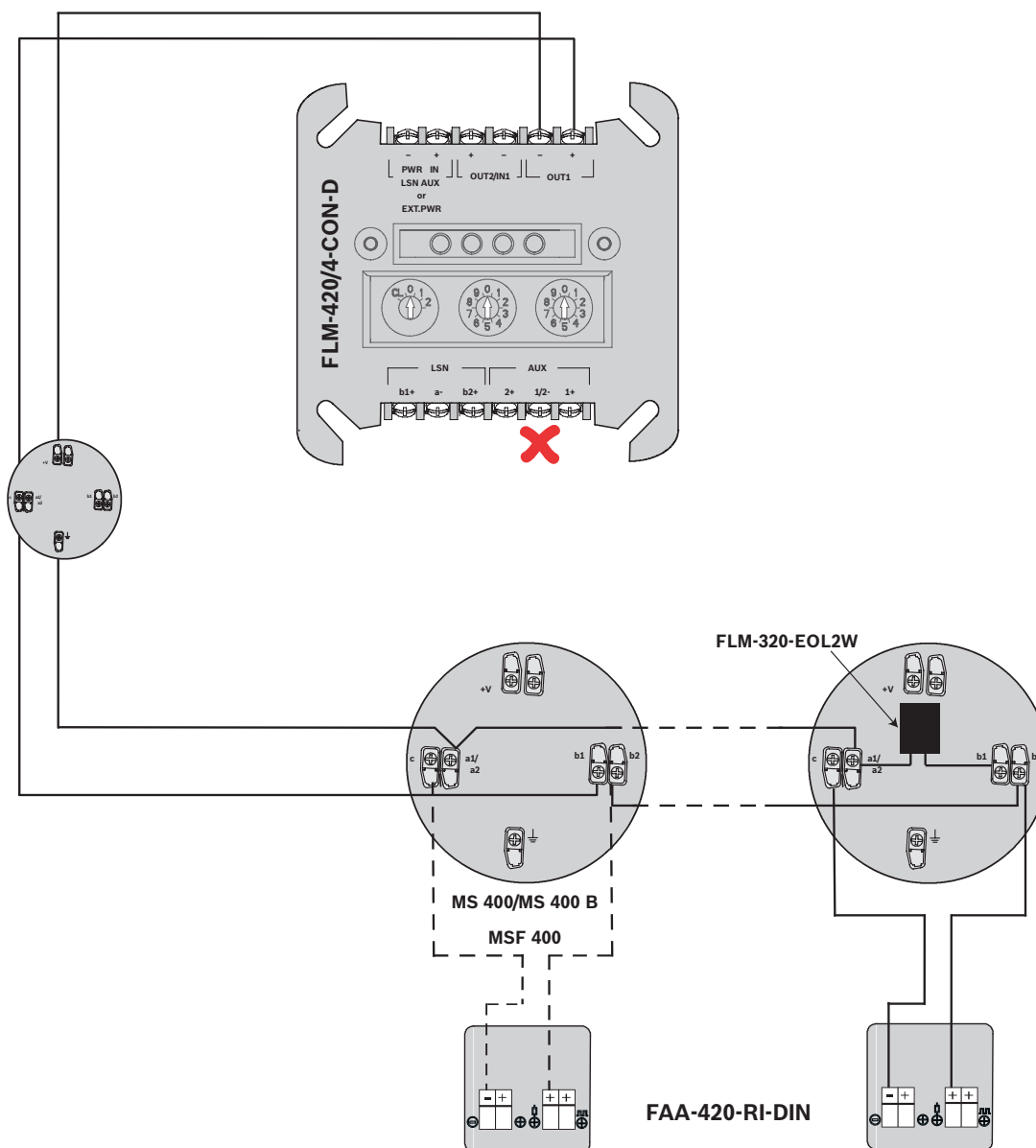




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 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



ELS VdS 2489





FCP-500

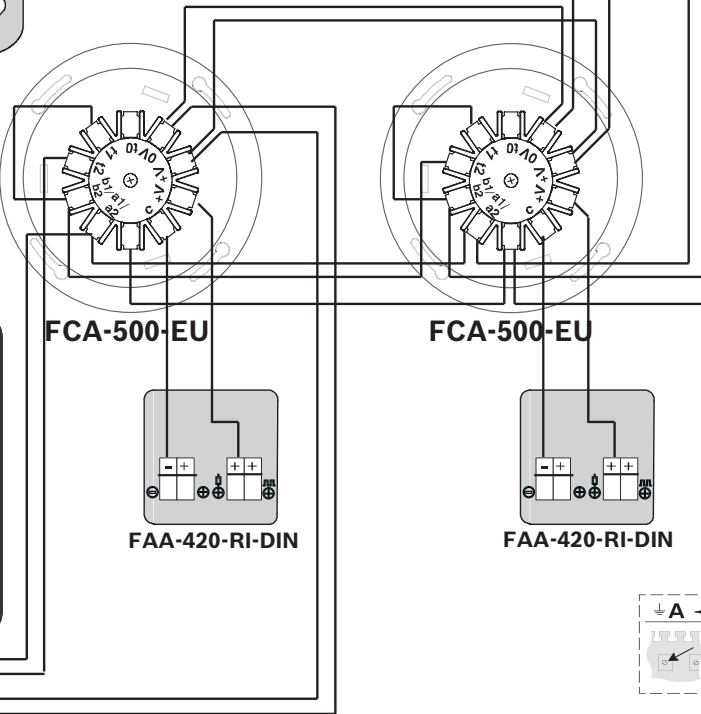
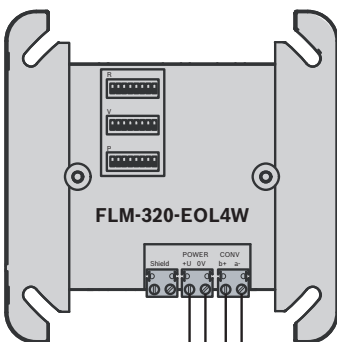
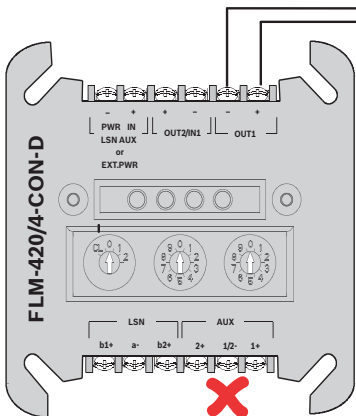


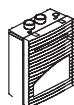
ELS

VdS 2489



BCM-0000-B
LSN 0300 A
LSN 1500 A

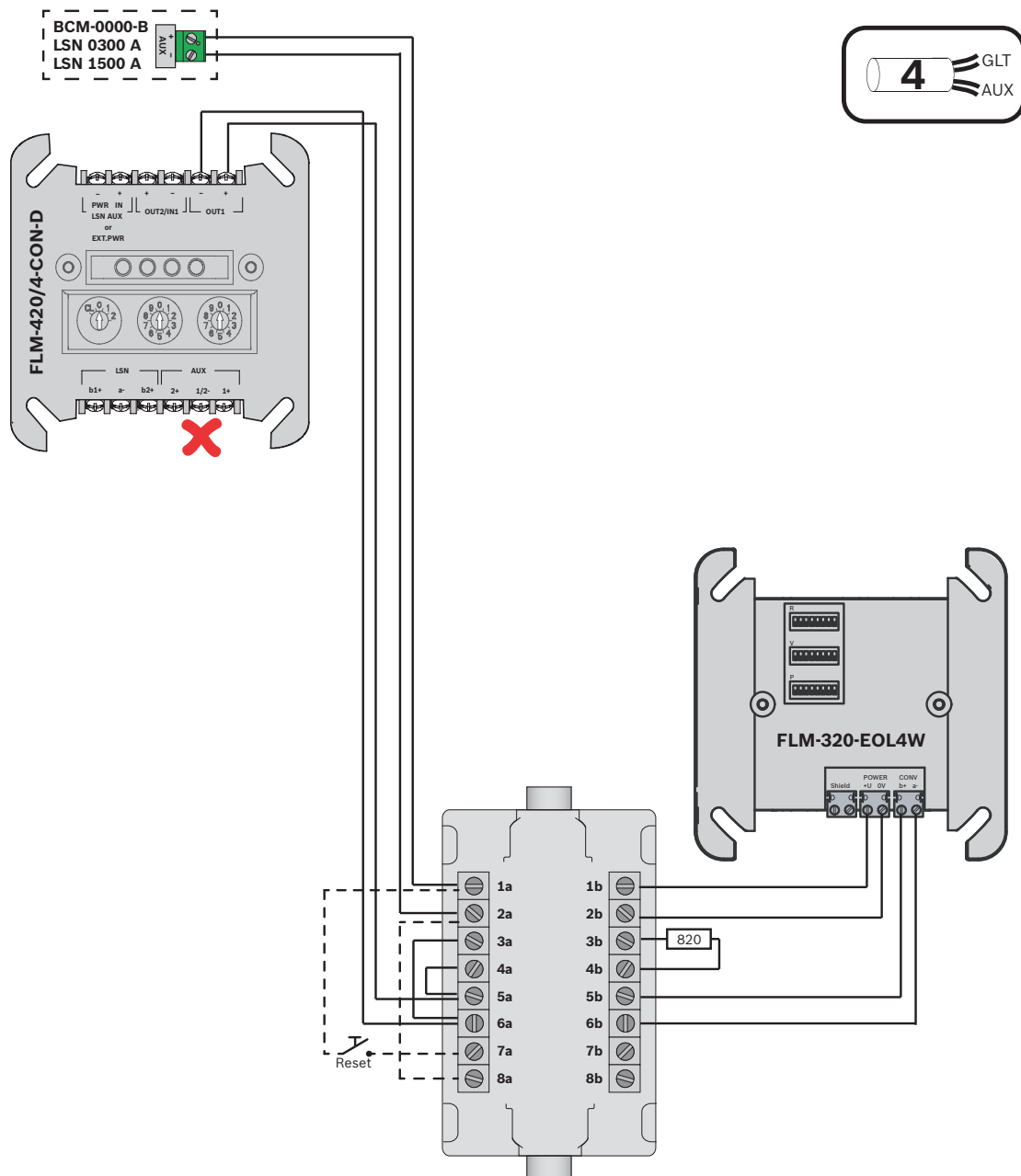


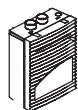


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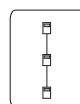


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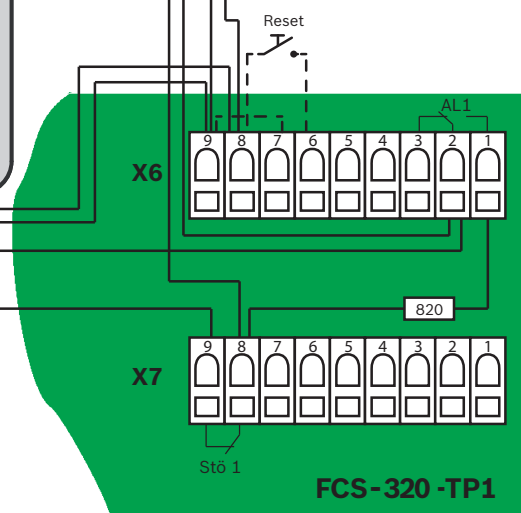
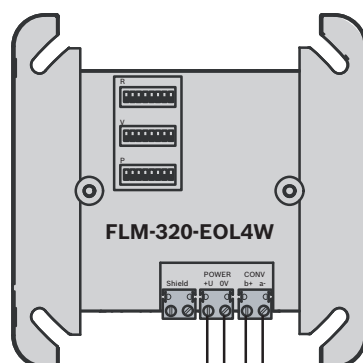
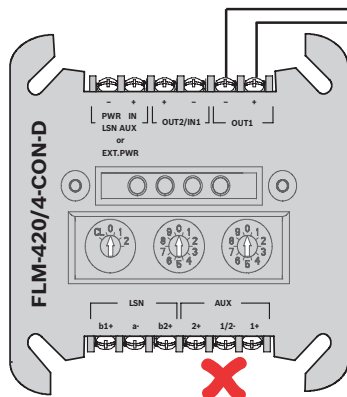
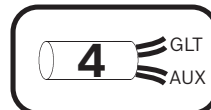
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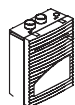


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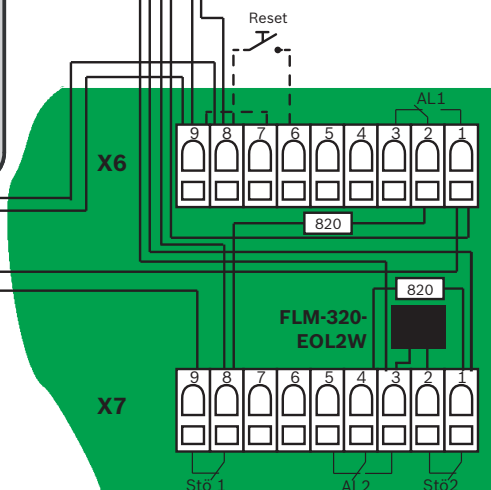
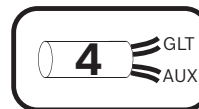
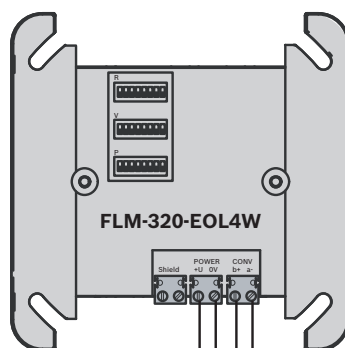
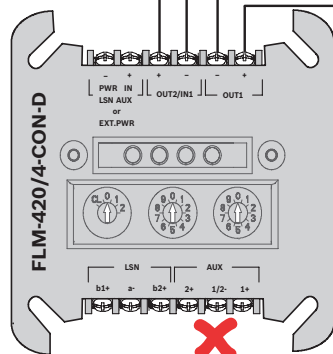
BCM-0000-B
LSN 0300 A
LSN 1500 A




FCS-320-TP Series

ELS VdS 2489


BCM-0000-B
LSN 0300 A
LSN 1500 A


FCS-320-TP2

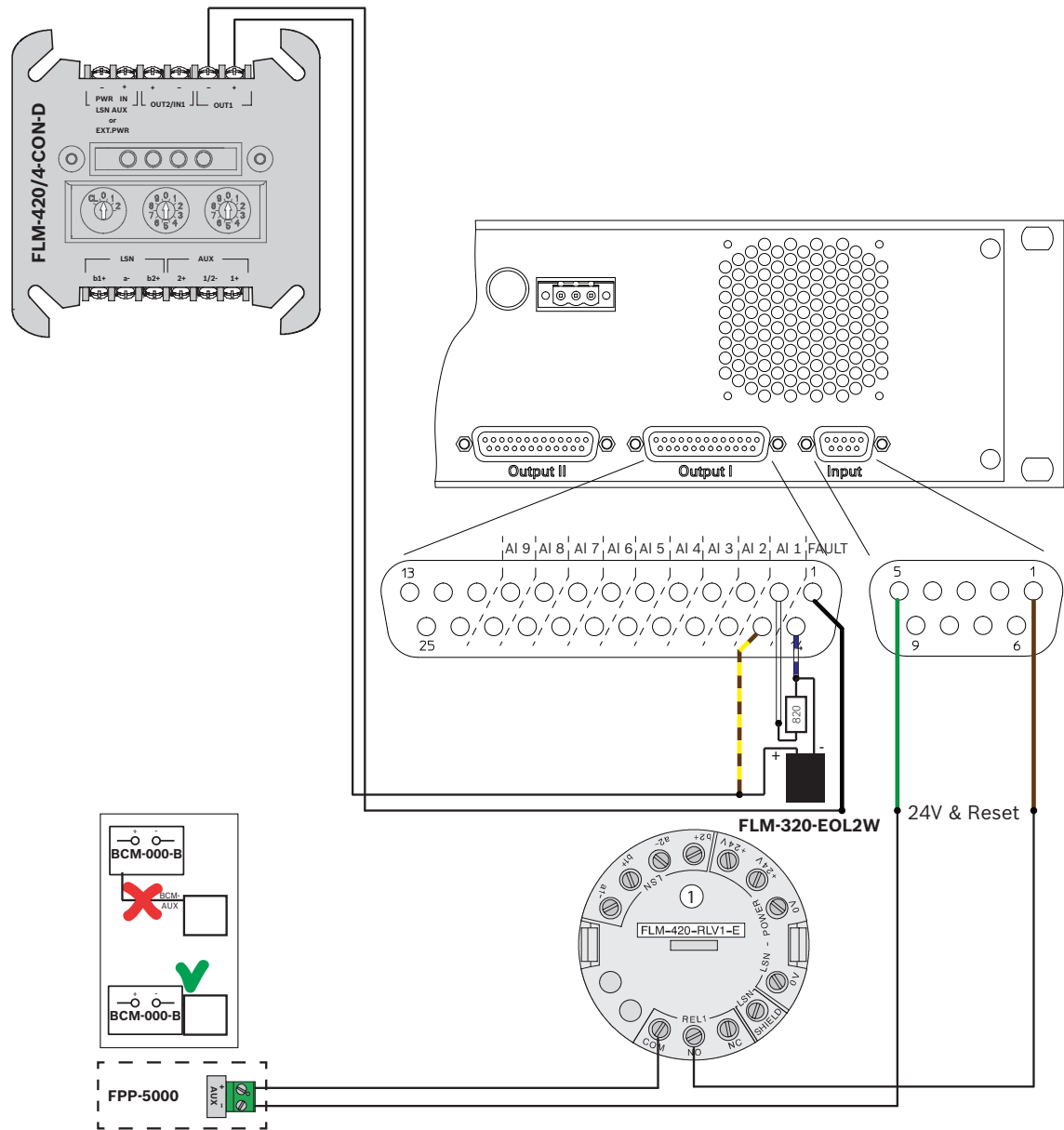


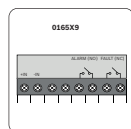
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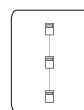
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VdS 2489

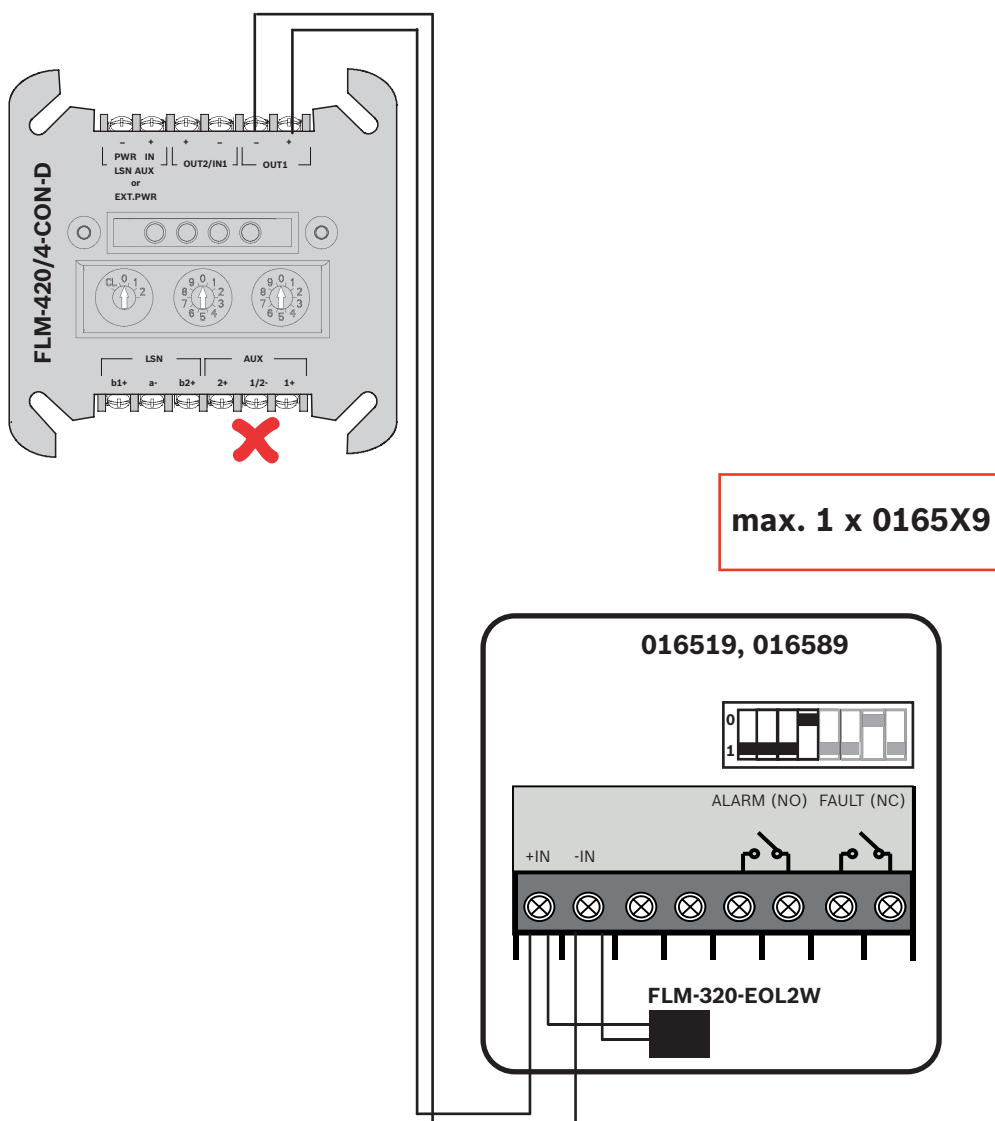


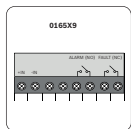


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IR3 Flame Detector

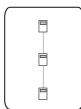


ELS VdS 2489

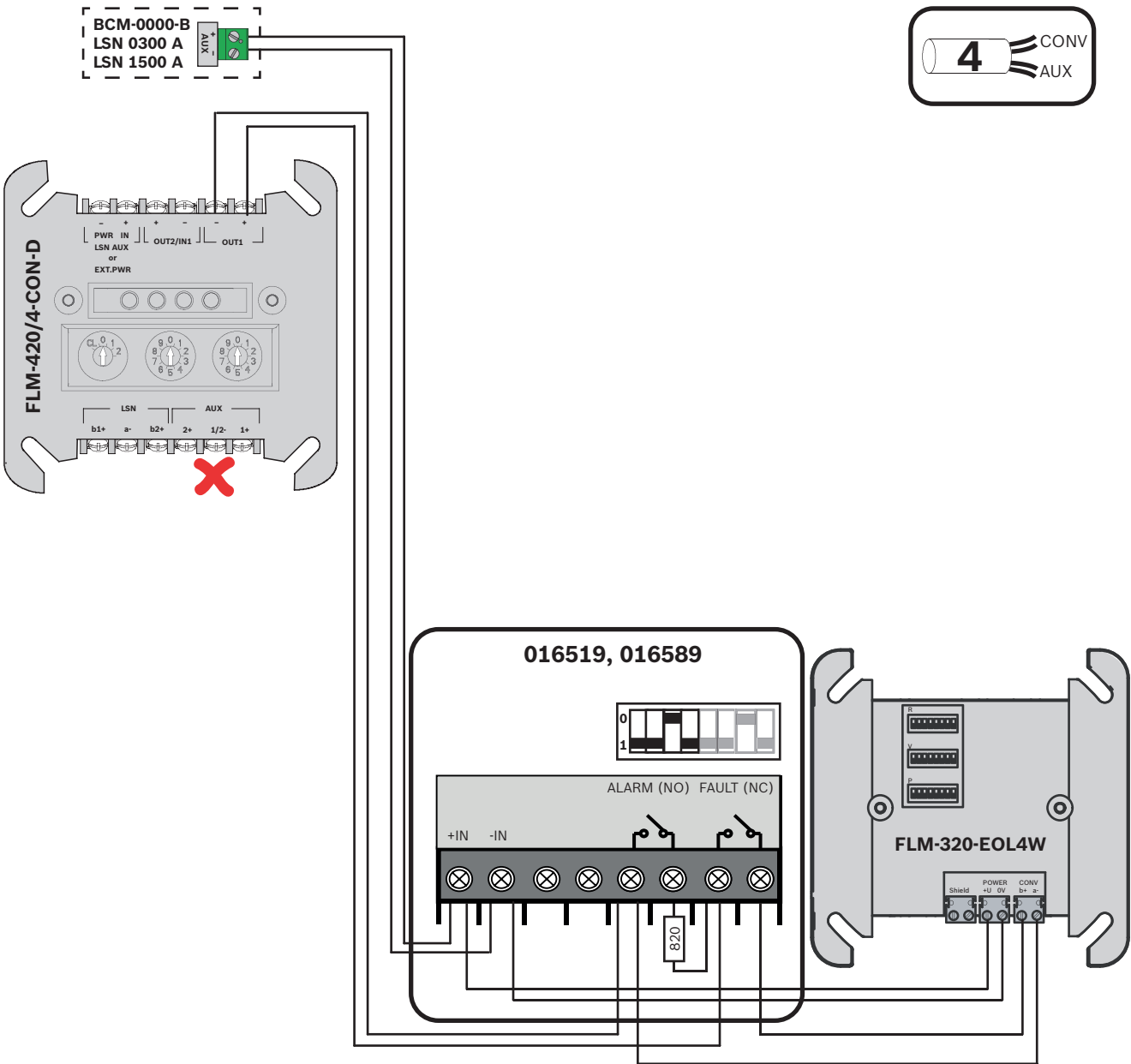


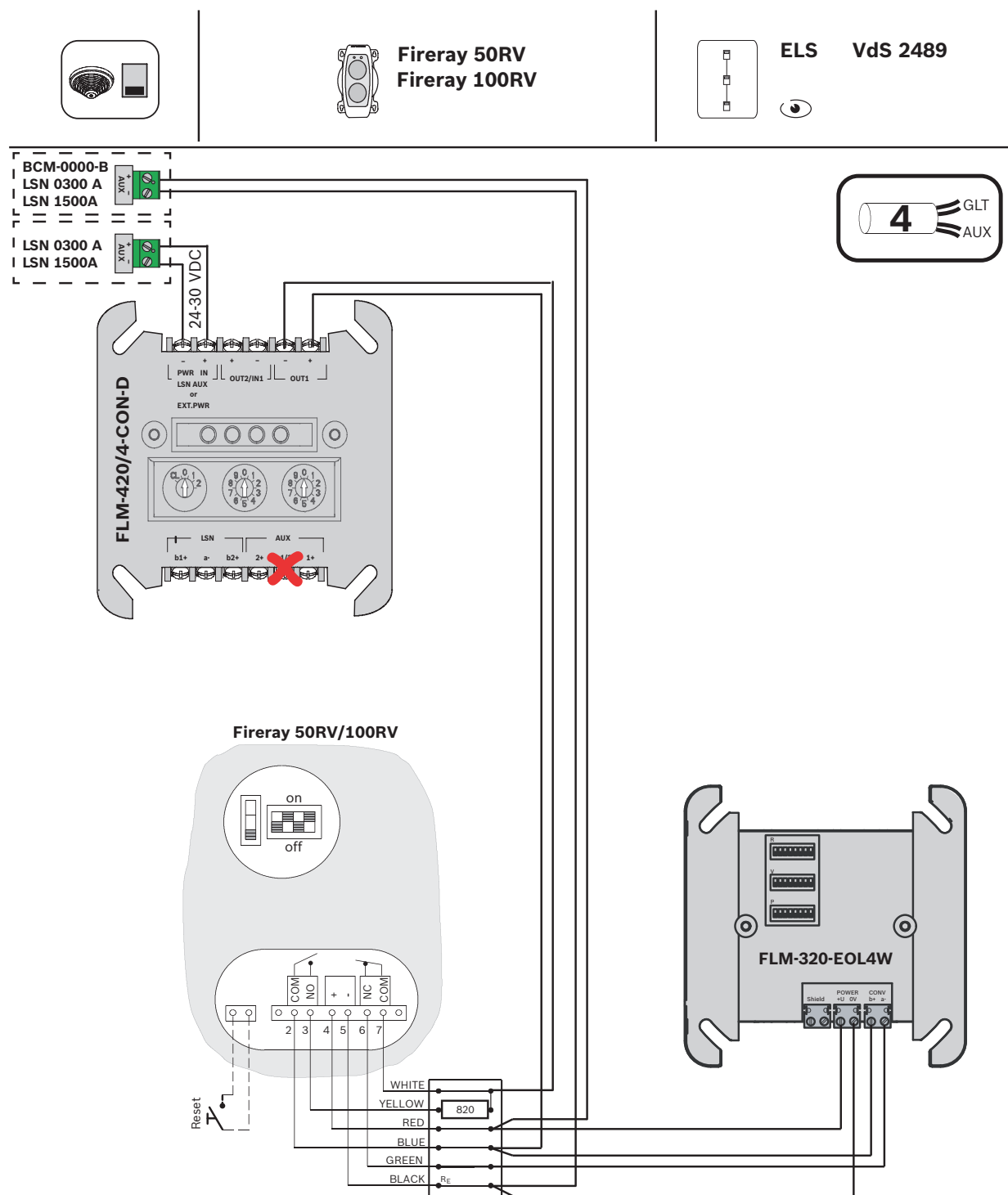


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IR3 Flame Detector



ELS VdS 2489







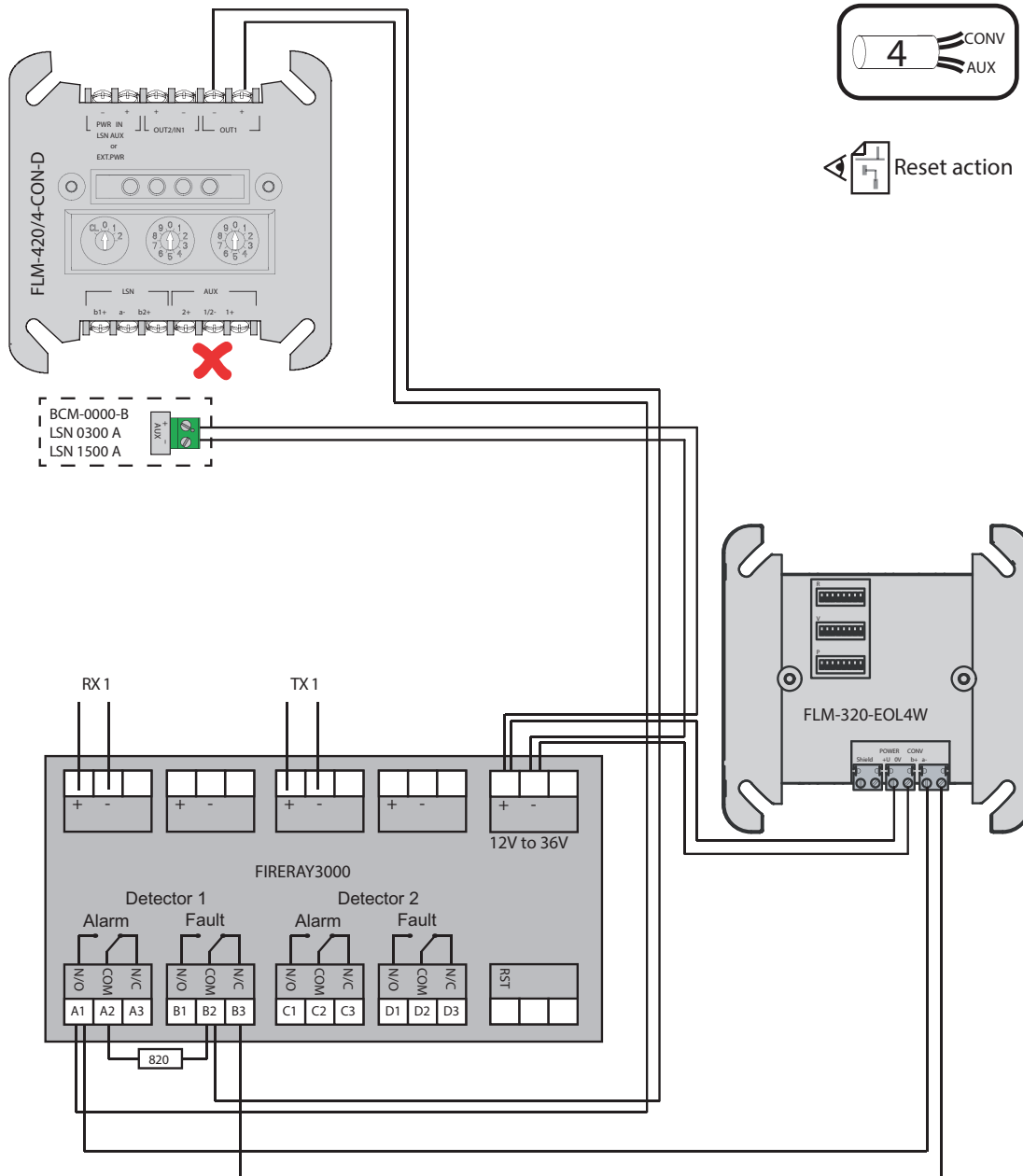
FIRERAY3000

1 x



ELS

VdS 2489





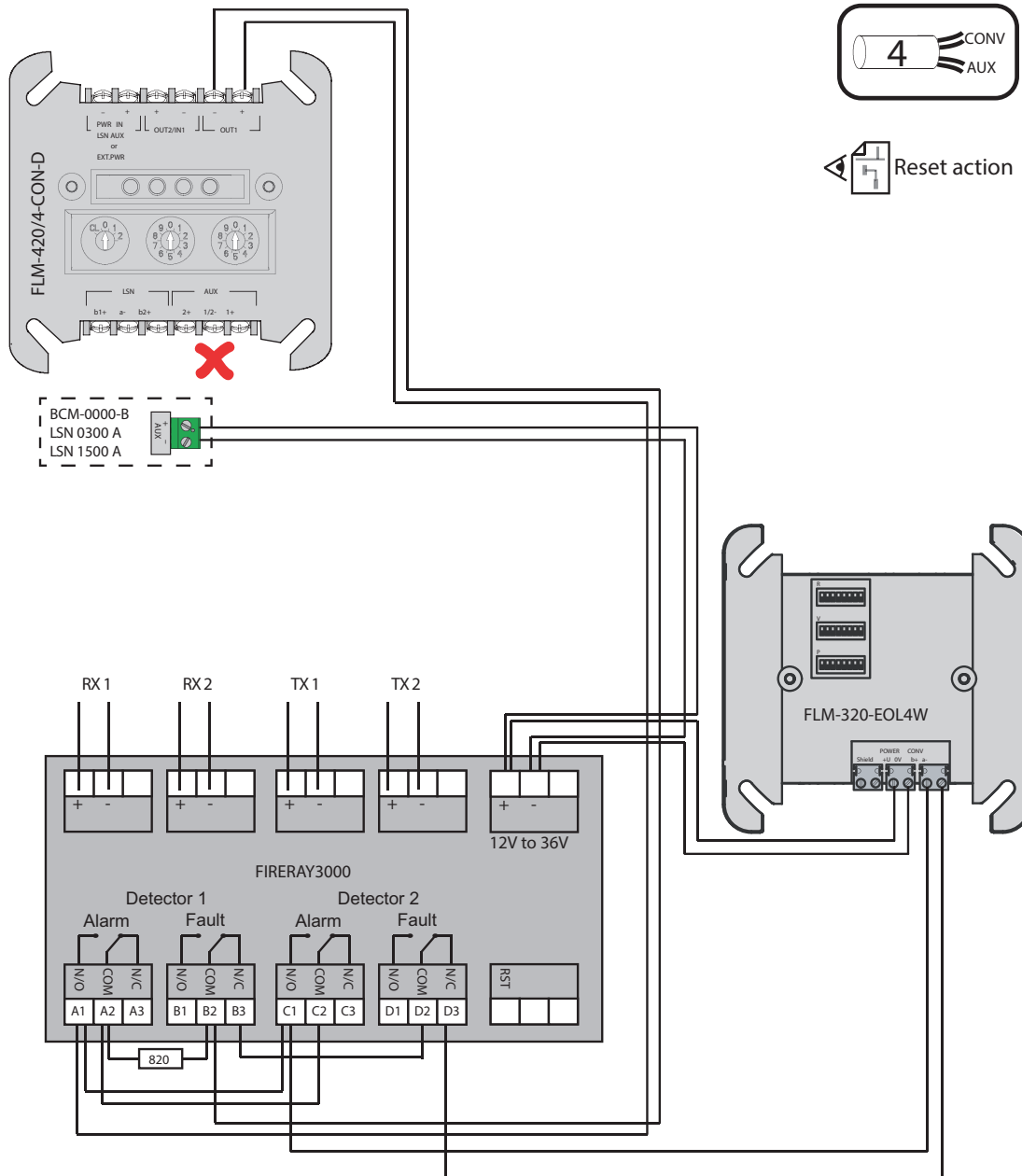
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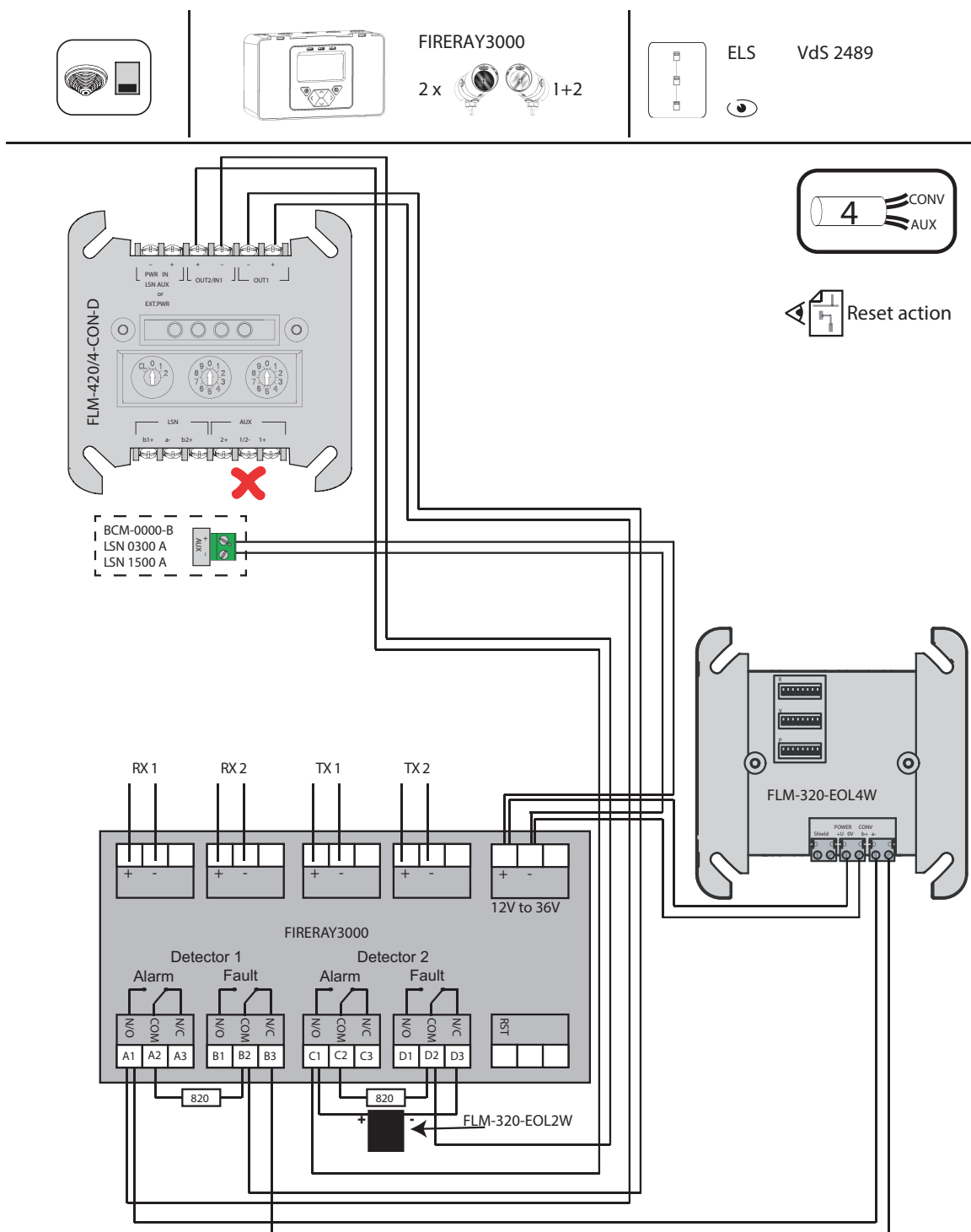
2 x 1



ELS

VdS 2489







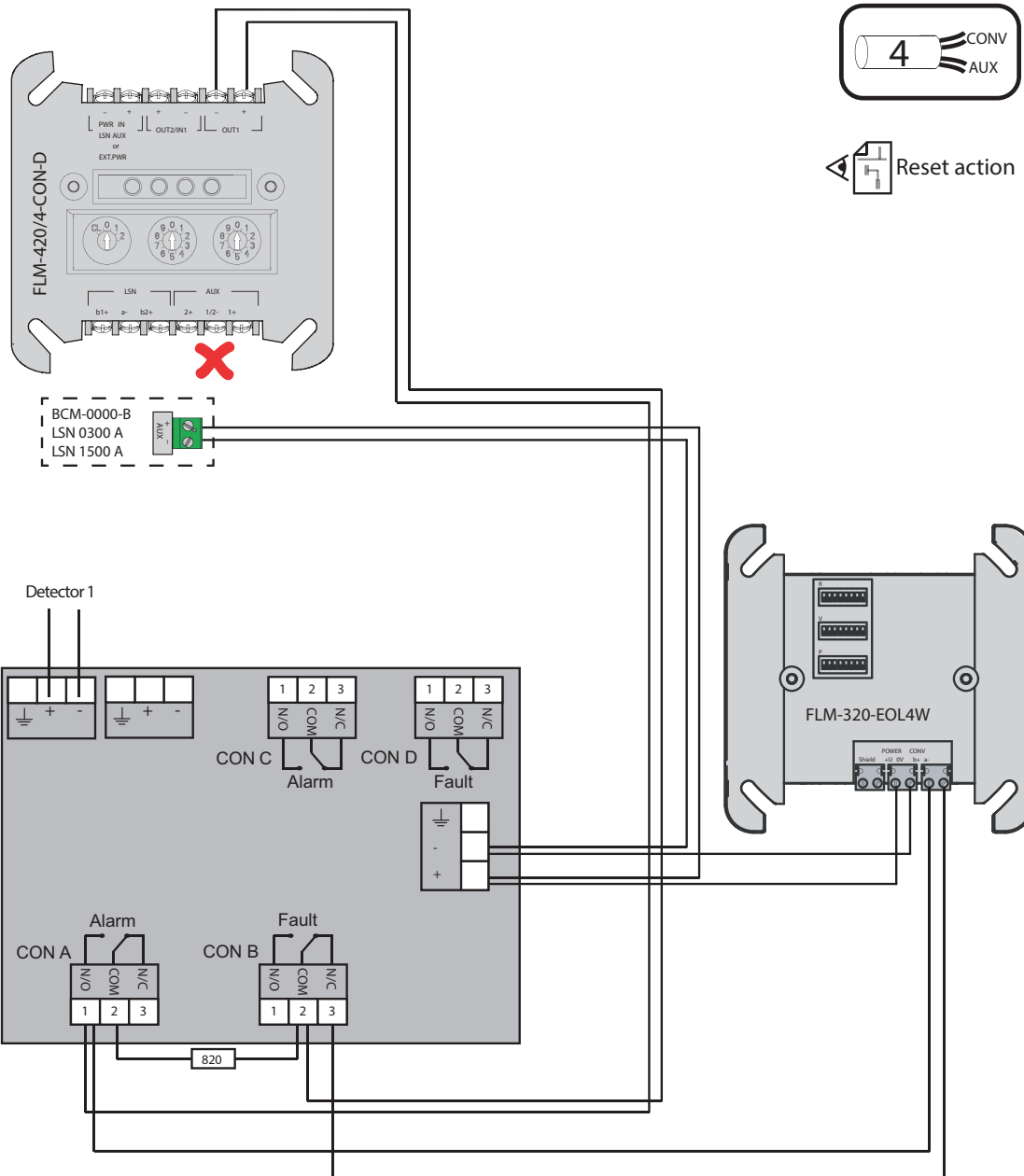
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1 x



ELS

VdS 2489





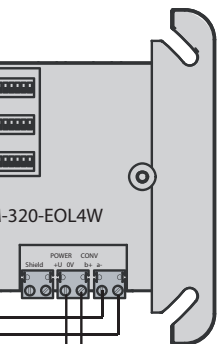
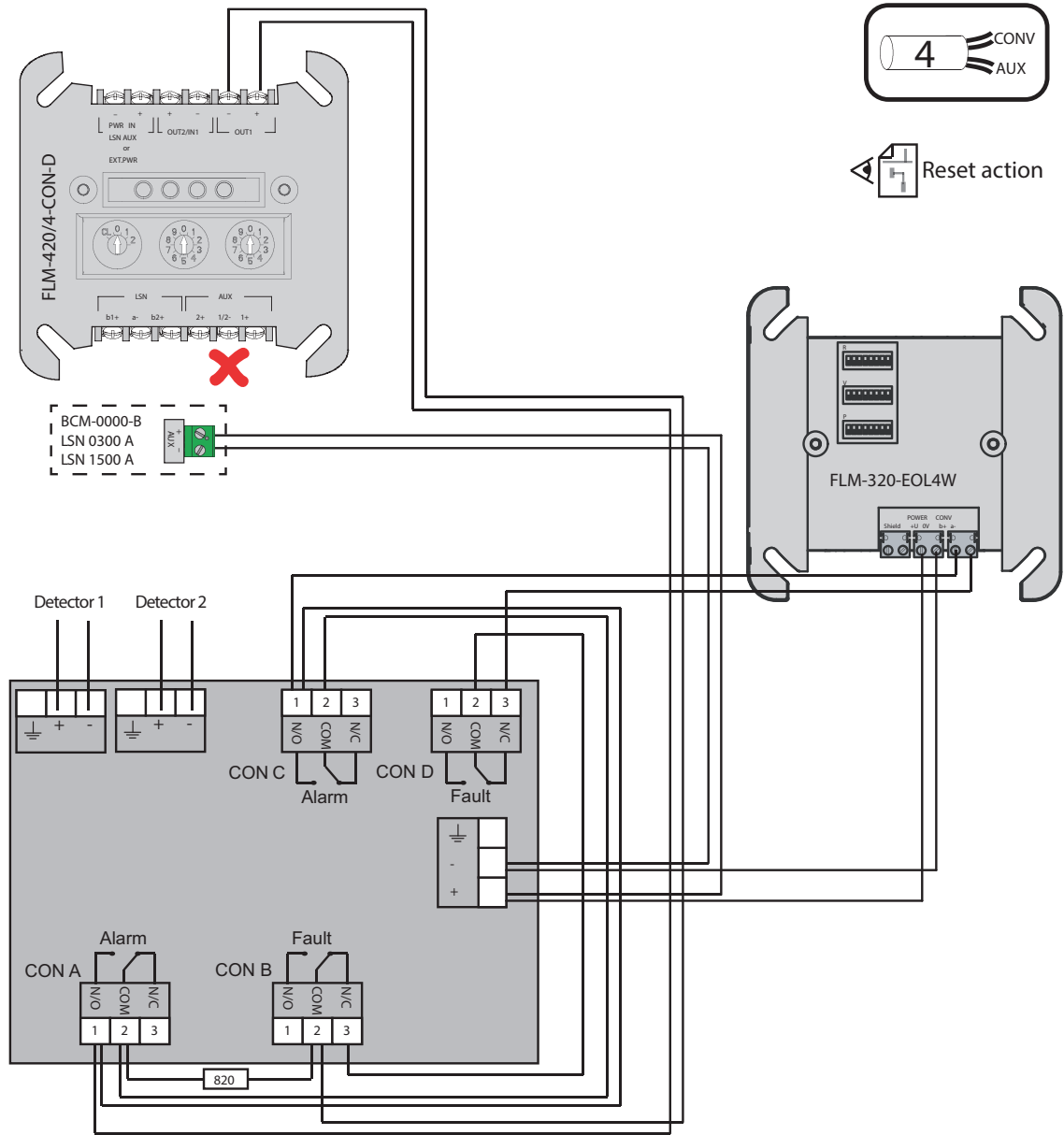
FIRERAY5000

2 x OUT1



ELS

VdS 2489



FLM-320-EOL4W

POWER CONV
Shield rd 0V b+ a-

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

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33 34 35 36

37 38 39 40

41 42 43 44

45 46 47 48

49 50 51 52

53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76

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805 806 807 808

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897 898 899 900

901 902 903 904

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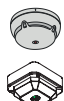
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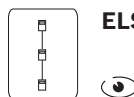
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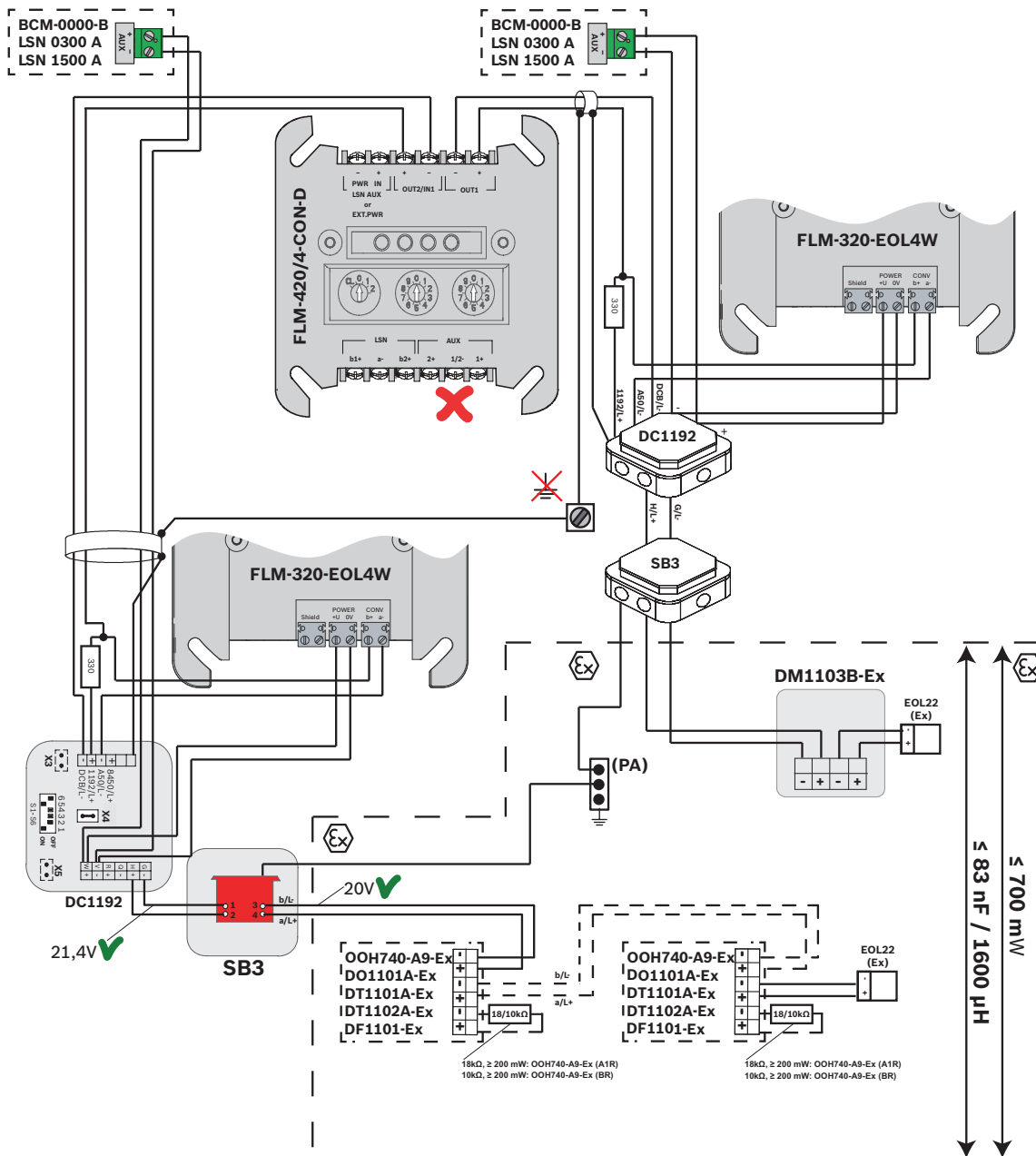
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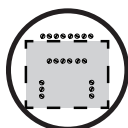


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OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex/DT1102A-Ex
DF1101-Ex
DM1103B-Ex

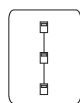


ELS VdS 2489

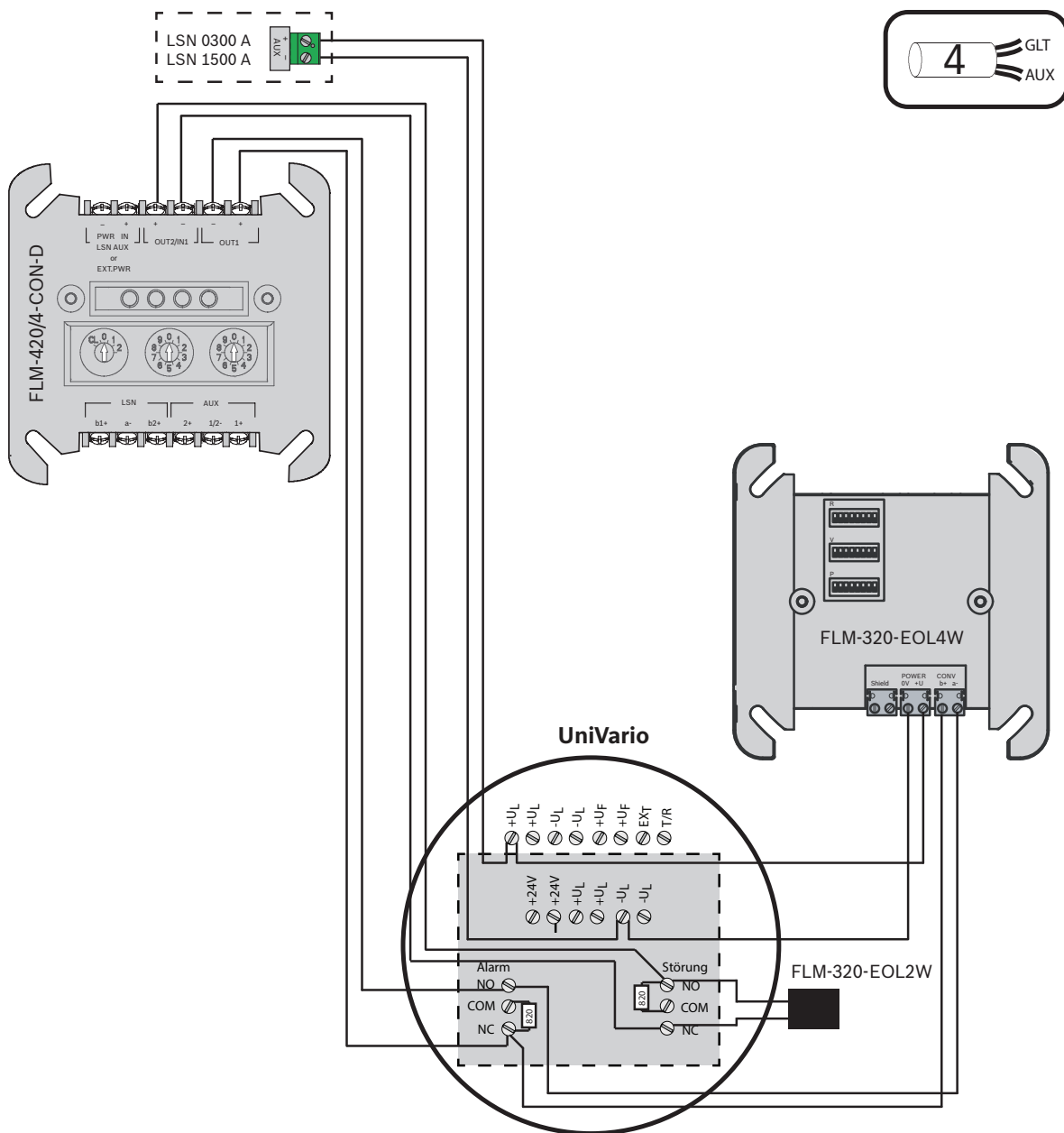




UniVario WMX5000
UniVario FMX5000
UniVario KMX5000



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