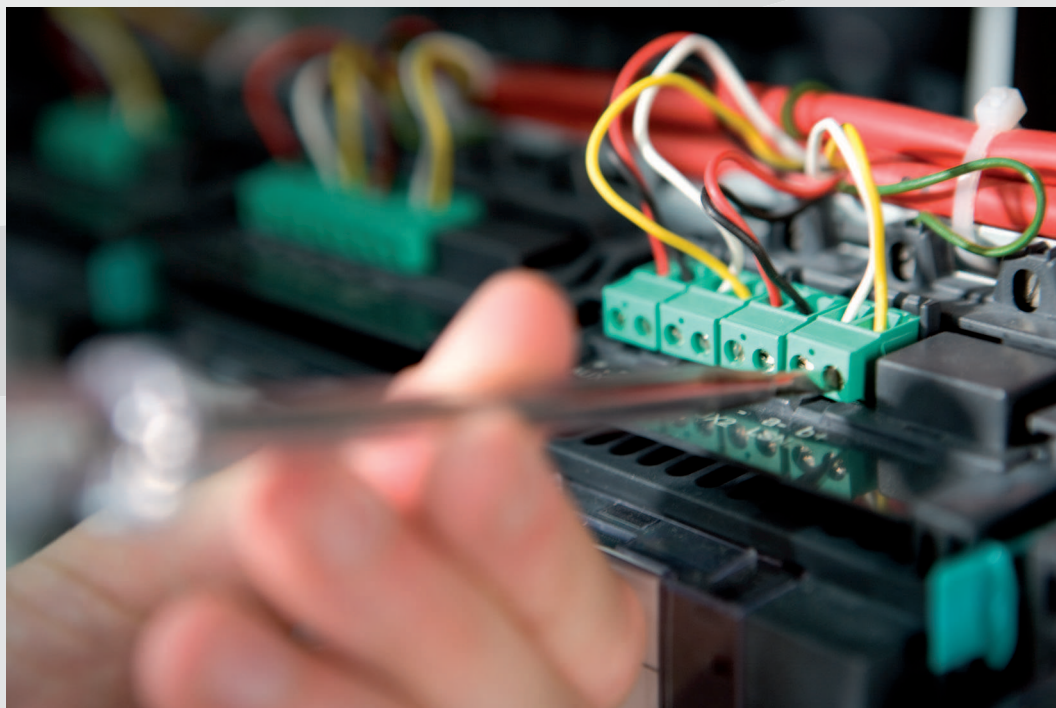


Modułowa centrala sygnalizacji pożaru

FPA-5000



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1 History

1.1 12.0 -> 12.1

Changes

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

Deleted

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

Outphased

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

New

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

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

1.2

12.1 -> 12.2

Changes

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

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

Deleted

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

Outphased

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

New

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

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

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

Changed

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

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

Outphased

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

1.4

12.3 -> 12.4

New

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

Changed

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

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

Outphased

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

1.5

12.4 -> 12.5

New

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

Changed

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

User Notes updated, order of chapters

Deleted

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

Outphased

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

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

1.6

12.5 -> 12.6

Changed

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

Outphased

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

1.7

12.6 -> 12.7

Changed

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

Deleted

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

New

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

1.8

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

12.7 -> 12.8**New**

AT5000 -> ENO 0000 B

Changed

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

Naming:

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

ELS descriptions in 2.4.2 (DE, EN)

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

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

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

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

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

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

FLM-420-O1I1 -> LSN 0300

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

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

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

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

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

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

Reset action

5 x FAT4000 (shield)

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

Deleted

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

Section Networking (see Networking guide)

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

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

37 x 2-wire cabling -> CZM 0004 A

2 Notatki

2.1 Spis treści

W niniejszej instrukcji okablowania opisano sposoby podłączania urządzeń peryferyjnych do centrali sygnalizacji pożaru.

Urządzenia peryferyjne niewchodzące już w skład oferty produktów opisano w rozdziale instrukcji okablowania zatytułowanym "Part 2 - Discontinued Products".

**Uwaga!**

Połączenia przedstawione w tej dokumentacji mogą być także zastosowane w centrali FPA-1200 pod warunkiem, że poszczególne komponenty FPA-1200 zostały zatwierdzone przez firmę Bosch Sicherheitssysteme GmbH.

**Uwaga!**

Przedstawione w niniejszym dokumencie sposoby podłączania urządzeń do modułu LSN 0300 A dotyczą również modułu LSN 1500 A.

2.2 Informacje o produkcie

- Instrukcje instalacji poszczególnych elementów central sygnalizacji pożaru można znaleźć w załączonym podręczniku instalacji.

2.3 Ważne

- Korzystać wyłącznie z materiałów instalacyjnych zalecanych przez firmę Bosch Security Systems.
- Konwersję i prace lutownicze wykonywać wyłącznie po założeniu opaski antyelektrostatycznej na nadgarstek.
- Prace instalacyjne i montażowe powierzać wyłącznie personelowi, który posiada stosowne przeszkolenie.
- Przestrzegać wymagań dotyczących połączeń ustanowionych przez lokalne władze/instytucje.

**Niebezpieczeństwo!**

Pamiętać, że dotykanie elementów pod napięciem może grozić śmiercią. Przed instalacją odłączyć zasilanie urządzenia.

**Uwaga!**

Jeśli konieczne jest podłączenie żyły ekranującej przewodu LSN, należy postępować zgodnie z parametrami technicznymi sieci LSN.

- Podłączyć ekran przewodu LSN do wyznaczonego złącza uziemienia po stronie centrali. Ekran po obu stronach pętli (na początku i na końcu) musi być podłączony do centrali.
- Podłączyć ekran przewodu przelotowo do wszystkich urządzeń peryferyjnych LSN, korzystając z dostarczonych terminali.
- Nie wolno wykonać żadnego innego połączenia ekranu przewodu LSN, ani ze złączem uziemienia w jakimkolwiek miejscu, ani z innym źródłem napięcia elektrycznego.

2.4 Notatki użytkownika

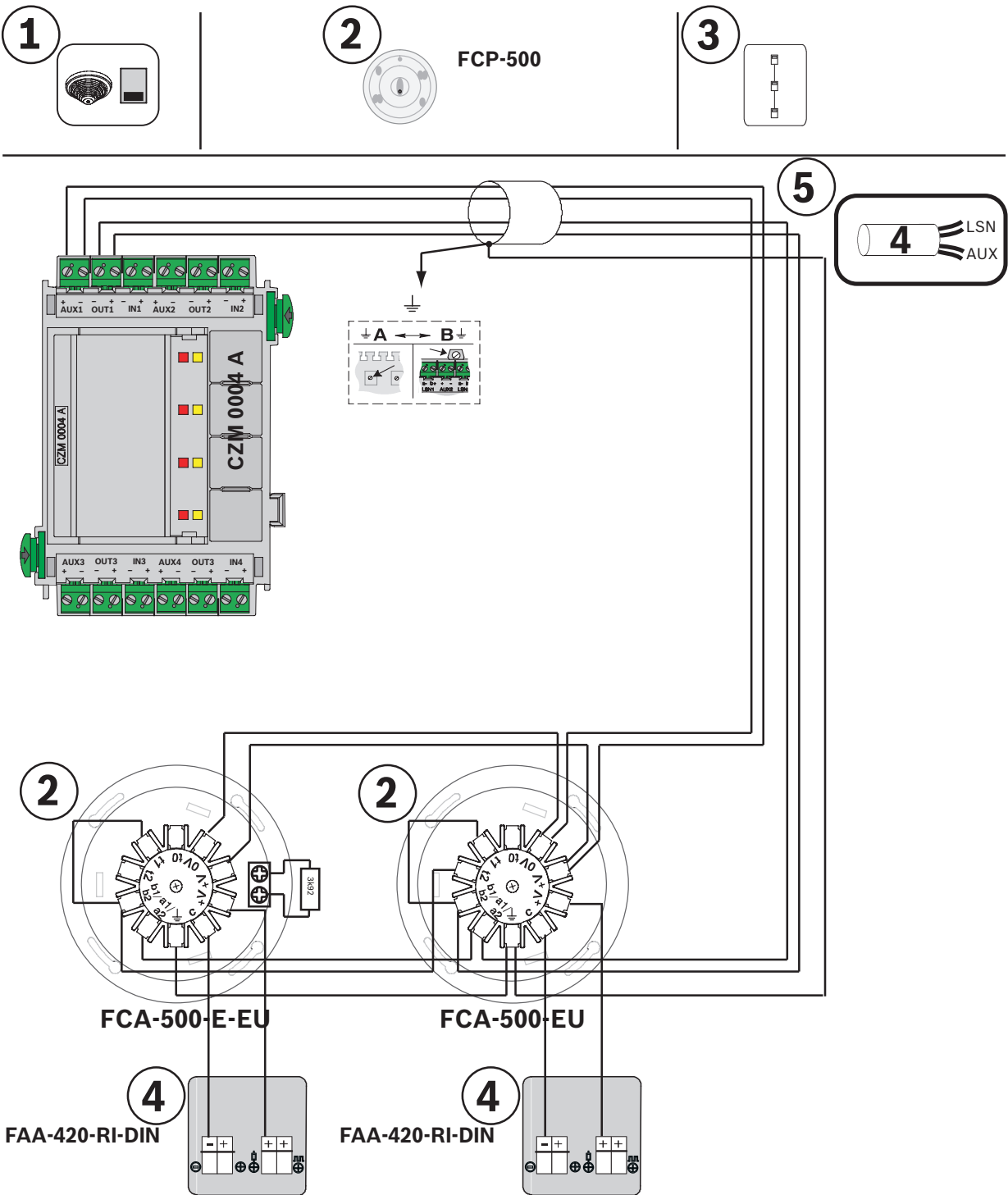
Instrukcja okablowania ma następujący układ:

- Rozdział *Okablowanie, Strona 19* uporządkowano według urządzeń, do których podłącza się urządzenia peryferyjne. Schemat okablowania przedstawia bezpośrednie połączenie między jednym urządzeniem a drugim (brak połączeń kaskadowych). Zazwyczaj na schematach nie uwzględnia się ekranowania. Widoczny poniżej przykładowy schemat pokazuje ekranowanie.
- Przegląd okablowania uzupełniono dodatkowymi modułami EOL do monitorowania narastającej przerwy znajdują się w sekcji EOL.

W znalezieniu odpowiedniego schematu mogą również pomóc:

- spisy treści na początku rozdziału *Okablowanie, Strona 19* i na początku sekcji *Moduły funkcjonalne, Strona 49, Moduły interfejsu, Strona 137* i EOL;
- Index (neutralny językowo)
- oraz funkcja przeszukiwania całego tekstu.

Patrz przykładowe okablowanie poniżej:



1	Oznaczenia rozdziałów (<i>Oznaczenia rozdziałów, Strona 15</i>)
2	Podłączane urządzenie peryferyjne
3	Oznaczenia połączeń (<i>Oznaczenia połączeń, Strona 15</i>)
4	Elementy opcjonalne
5	Zasilanie i okablowanie (<i>Zasilanie i okablowanie, Strona 16</i>)

Patrz

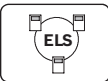
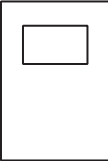
– EOL, Strona 181

2.4.1 Oznaczenia rozdziałów

	Czujki automatyczne		Panele sterowania i wyświetlacze		Drukarka
	Zasilacz		Moduły funkcyjne		Wypożenie przeciwpożarowe
	Moduły interfejsu		Systemy gaśnicze		Ręczne ostrzegacze pożarowe
	Urządzenia sygnalizacyjne		Sterowanie drzwiami		Urządzenia transmisyjne
	System sieciowy				

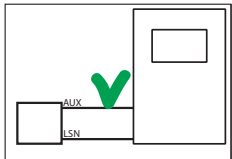
2.4.2 Oznaczenia połączeń

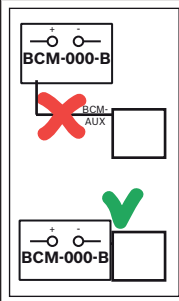
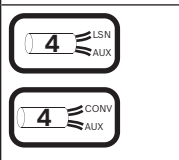
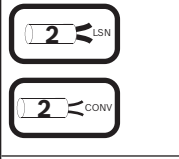
 	Monitorowane/ niemonitorowane połączenie konwencjonalnego urządzenia peryferyjnego lub linia obwodów monitorowanego/ niemonitorowanego konwencjonalnego urządzenia ostrzegawczego. (Rezystor końca linii w połączeniu CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A lub na bezpotencjałowych stykach z modułem interfejsu).	 	Do tego połączenia konwencjonalnego urządzenia peryferyjnego można podłączyć linię zwrotną. / Symbol przekreślenia oznacza, że linii zwrotna nie jest konieczna lub nie jest zalecana. (połączenia FLM-420-RHV, FLM-420- RLE-S, RMH 0002 A) Linia wejściowa może być również używana jako linia zwrotna (FLM-420-I8R1, FLM-420-I2, FLM-420- O8I2, FLM-420-O1I1...).		Nadmiarowość
	Okablowanie pętli		Okablowanie pętli z elementem nadmiarowym		Okablowanie odgałęzienia
	Nadmiarowe okablowanie odgałęzienia		Okablowanie odgałęzienia z elementem nadmiarowym		Nadmiarowe okablowanie odgałęzienia z elementem nadmiarowym

ELS	To okablowanie jest zgodne z VdS 2543. ELS to skrót od Extended Line Supervision (nadzór rozszerzony linii), co oznacza monitoring zwarć i przerw. To okablowanie zapewnia ELS. Wszystkie okablowania z modułami EOL do monitorowania przerw można znaleźć w rozdziale EOL. Zwarcia narastające są wykrywane przez następujące moduły: LSN 0300 A, LSN 1500 A i BCM-0000-B, jeśli jest używane urządzenie FPP-5000-TI13.		To okablowanie pętli jest zgodne z VdS 2543. Zapewnia ono ELS. Dodatkowe moduły EOL nie są wymagane.		Synchronizacja
	Obszary zagrożone wybuchem		Centrala		Samodzielna centrala
	Samodzielna centrala z elementem nadmiarowym		Niedozwolone		Dotyczy podstaw czujek: okablowanie jest prawidłowe wyłącznie w przypadku podstawy czujki, w której zainstalowano czujkę.
-----	Okablowanie opcjonalne	_____	Okablowanie wymagane	EN 54-2, DIBT itd.	Jeżeli wymagana jest zgodność z tą normą, należy użyć określonego okablowania.

2.4.3

Zasilanie i okablowanie

	Dodatkowy zasilacz
	Zasilanie za pośrednictwem centrali Zasilanie może być realizowane oddzielnie od elementu.

	Zasilanie przez zasilacz centrali/zewnętrzny Element jest zasilany z modułu BCM-000-B. Element musi być zamontowany równo z obudową produktu zawierającego moduł BCM-000-B.
	Okablowanie jest połączeniem 4-żyłowym. Pozostałe połączenia są 2-żyłowe.
	Okablowanie jest połączeniem 2-żyłowym.
	Sprawdź schemat okablowania w niniejszej instrukcji.
	Sprawdź dokumentację techniczną podłączonego urządzenia peryferyjnego.

2.5

Wartości rezystancji

Niniejsza tabela zawiera informacje na temat oznaczeń barwnych rezystorów. Dostarczone wraz z produktem rezystory metalizowane posiadają 5 pasm koloru, których oznaczenia barwne wskazują wartość rezystancji.

Kolor	1. pasmo	2. pasmo	3. pasmo	4. pasmo (multiplikator)	5. pasmo (tolerancja)
Srebrny				10^{-2}	$\pm 10\%$
Złoty				10^{-1}	$\pm 5\%$
Czarny		0	0	10^0	
Brązowy	1	1	1	10^1	$\pm 1\%$
Czerwona	2	2	2	10^2	$\pm 2\%$
Pomarańczowy	3	3	3	10^3	$\pm 0.05\%$
Żółty	4	4	4	10^4	$\pm 0.02\%$
Zielony	5	5	5	10^5	$\pm 0.5\%$
Niebieski	6	6	6	10^6	$\pm 0.25\%$
Fioletowy	7	7	7	10^7	$\pm 0.1\%$
Szary	8	8	8	10^8	$\pm 0.01\%$
Biały	9	9	9	10^9	

Zgodnie z normą DIN EN 60062:2017

Pomarańczowy — biały — czarny — brązowy — brązowy: rezystor 3,9 kΩ z tolerancją 1%,

Czerwony — czerwony — czarny — brązowy — brązowy: rezystor 2,2 kΩ z tolerancją 1%.

3

Okablowanie



FPP-5000 Power supply, Strona 20

DIBT, Strona 22

Moduły funkcjonalne, Strona 49

BCM-0000-B, Strona 50

CZM 0004 A, Strona 52

ENO 0000 A/B, Strona 56

LSN 0300 A, Strona 63

NZM 0002 A, Strona 98

RMH 0002 A, Strona 114

IOS 0020 A, Strona 117

FPE-5000-UGM, Strona 132

Moduły interfejsu, Strona 137

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

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

FLM-420-RLE-S, Strona 176

FLM-420-RLV1-E, Strona 177

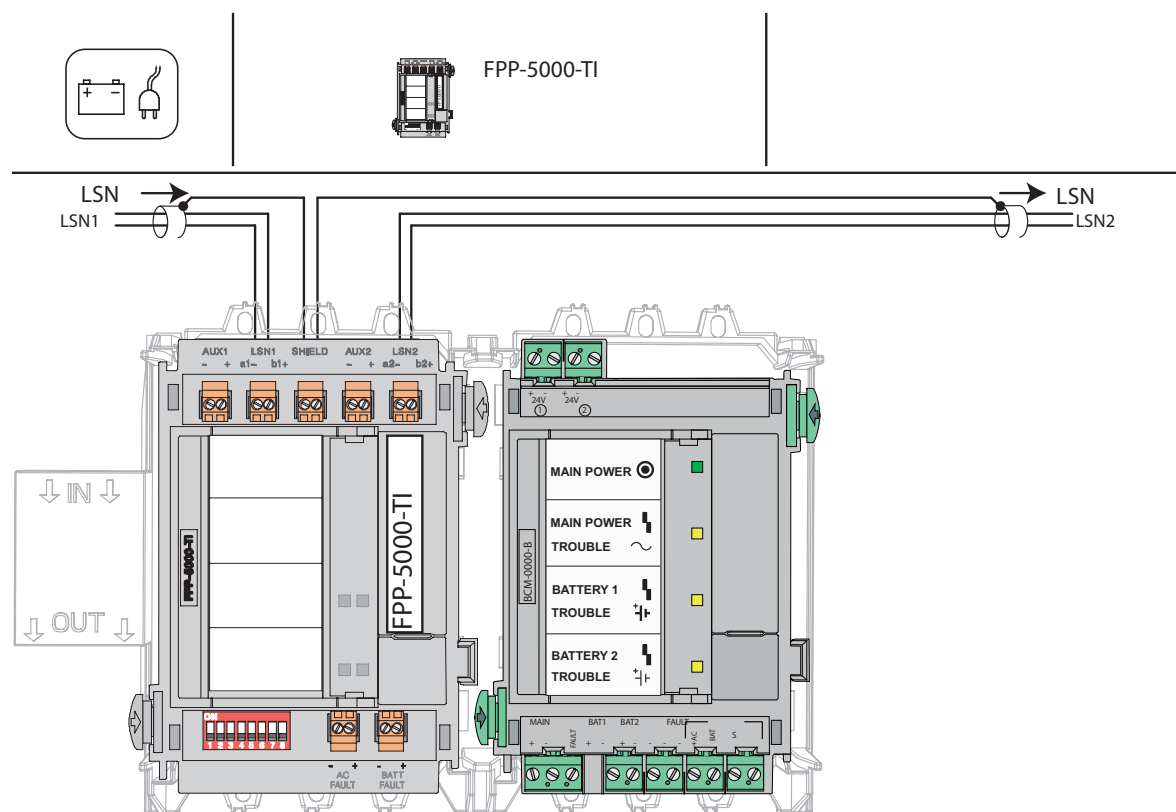
FLM-420-RLV8-S, Strona 178

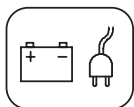
EOL, Strona 181

LSN 0300 A, Strona 182

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

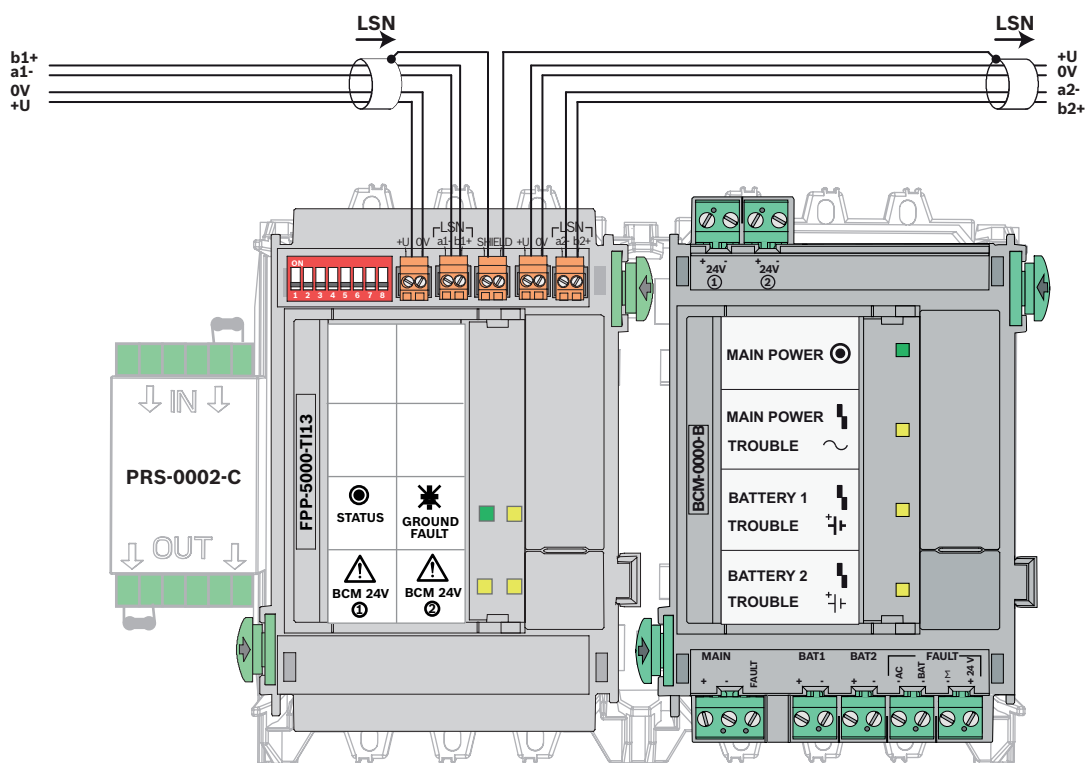
3.1 FPP-5000 Power supply





FPP-5000-TI13

ELS VdS 2489

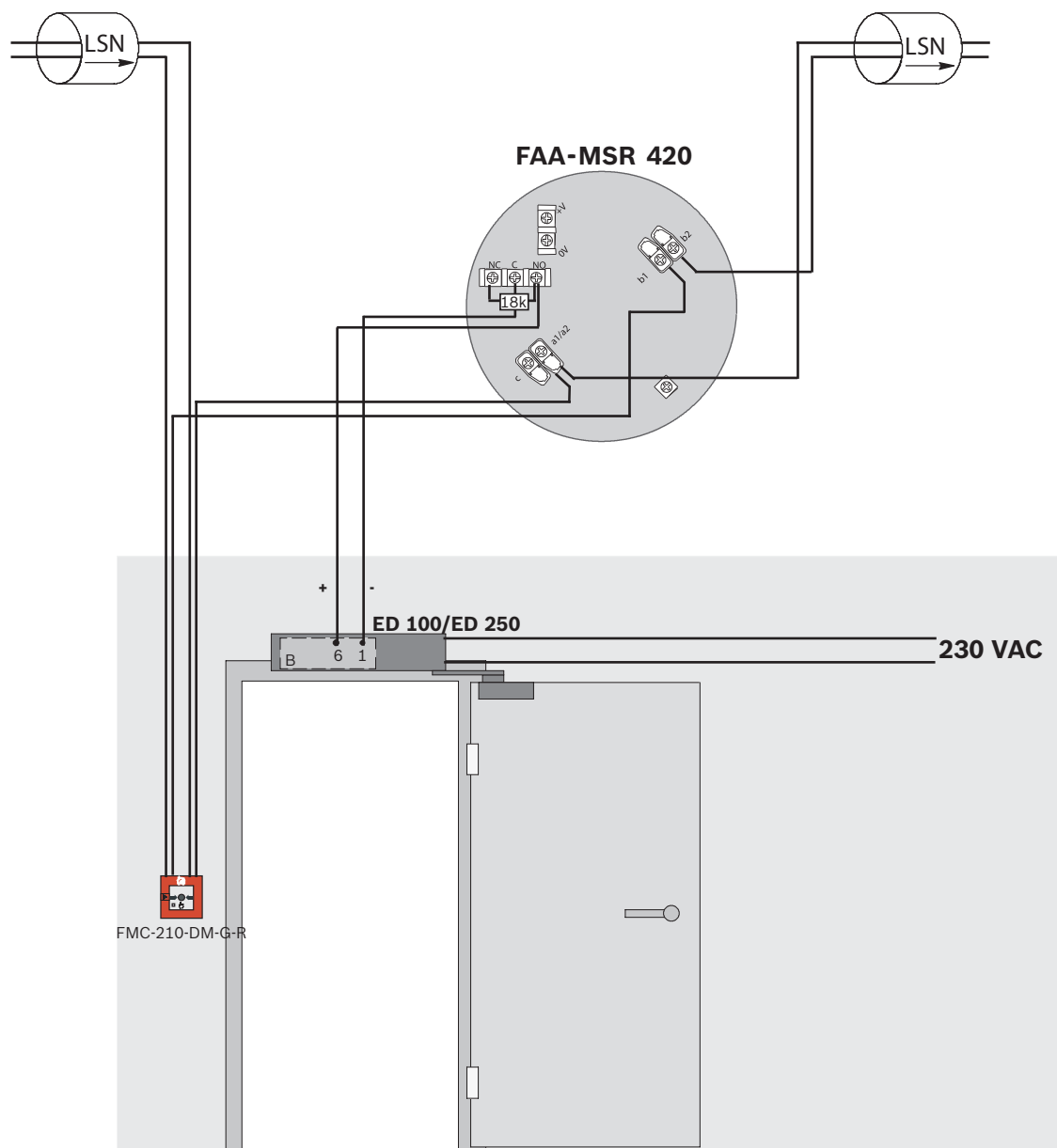


3.2 DIBT



ED 100
ED 250
(+Upgrade Card B)

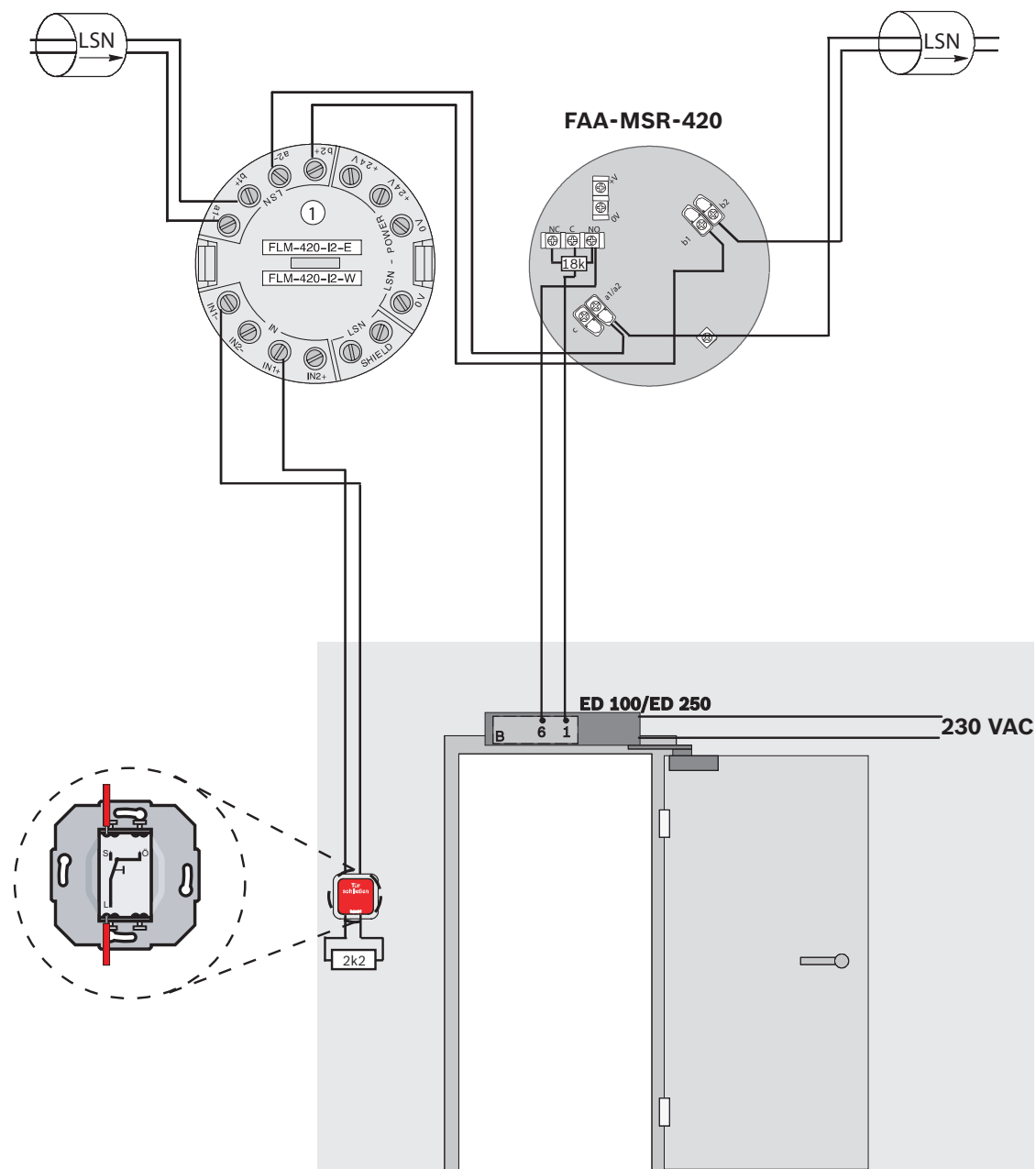
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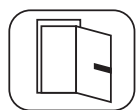
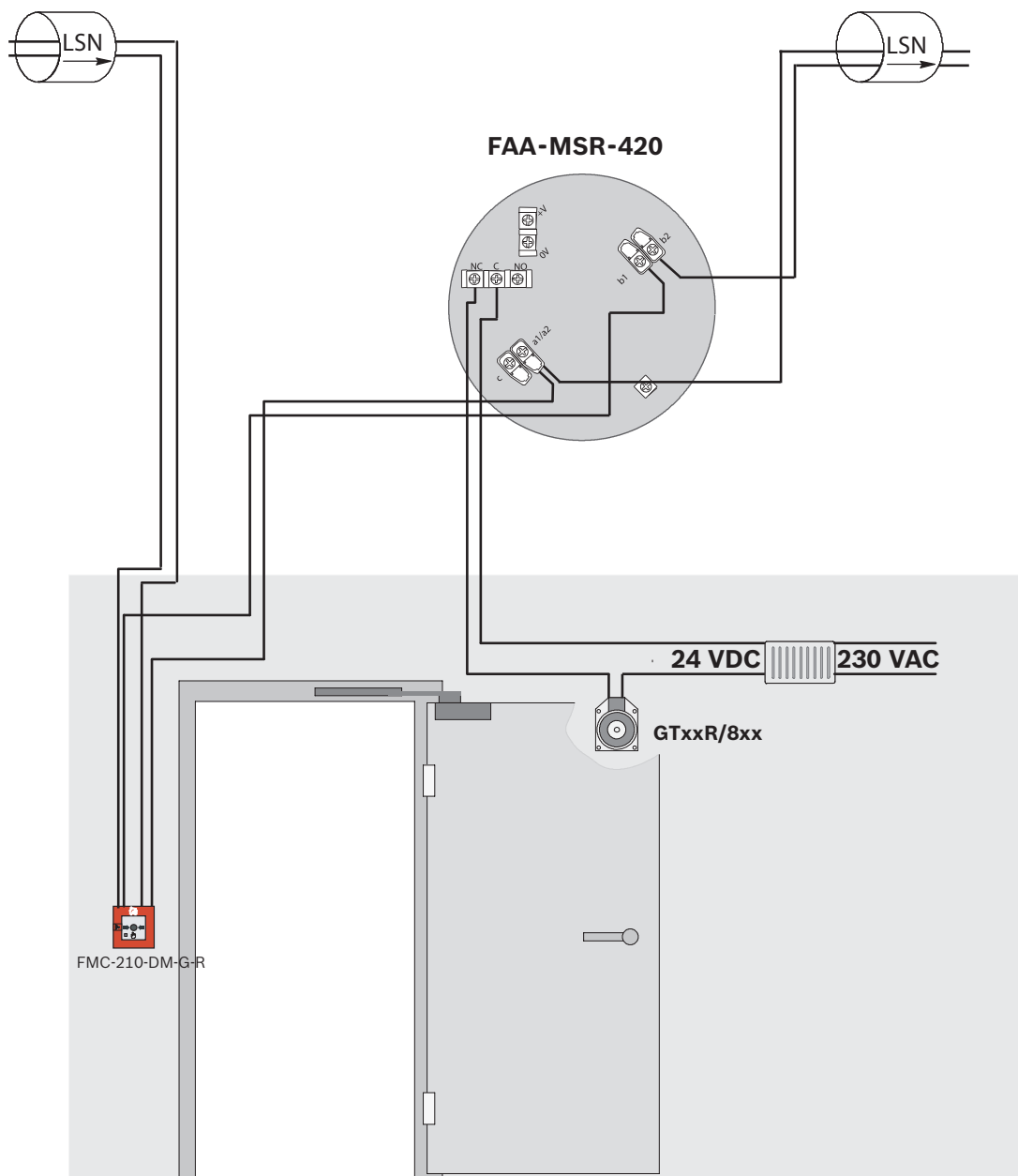


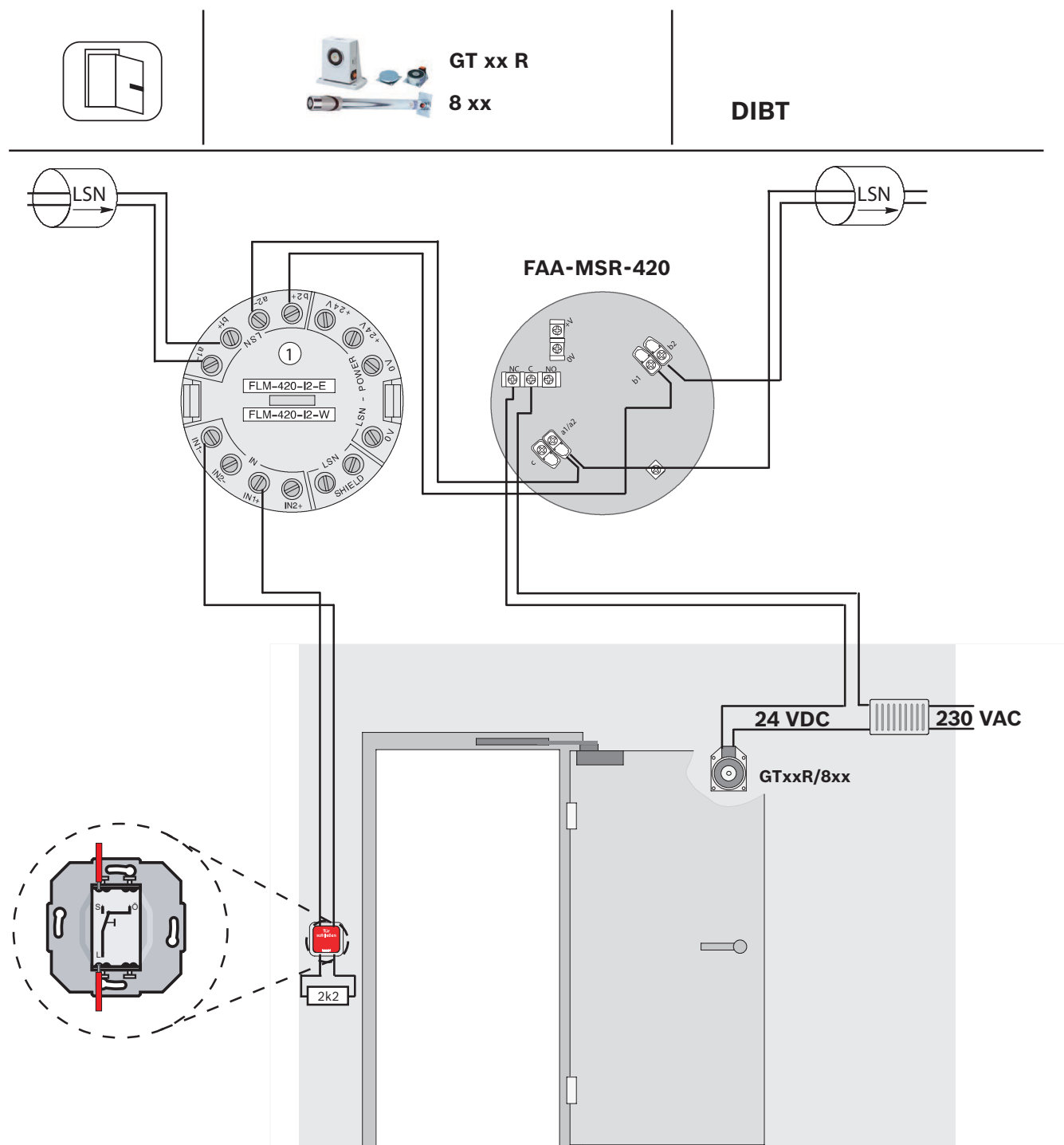


ED 100
ED 250
(+Upgrade Card B)

DIBT



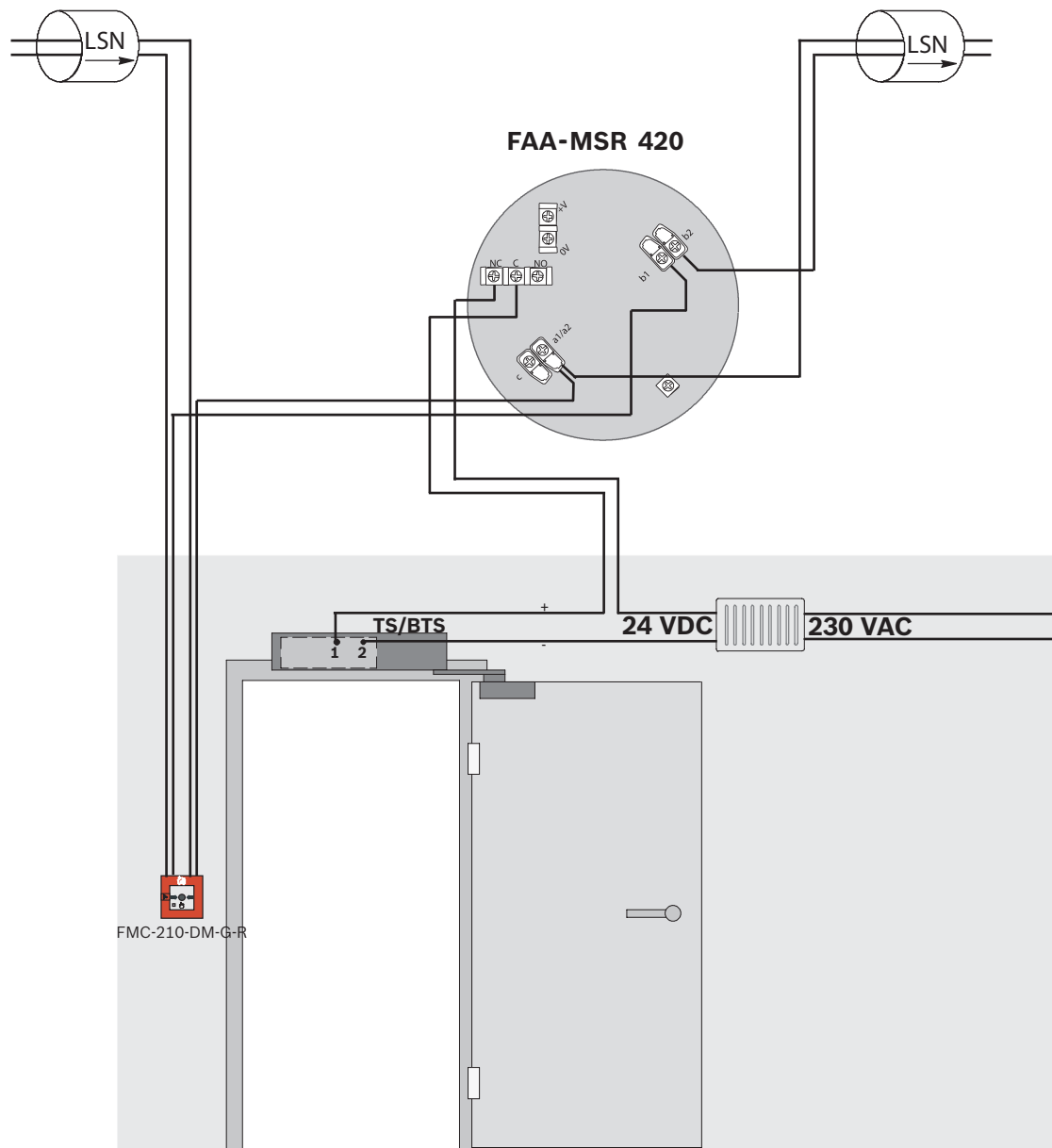
**DIBT**





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

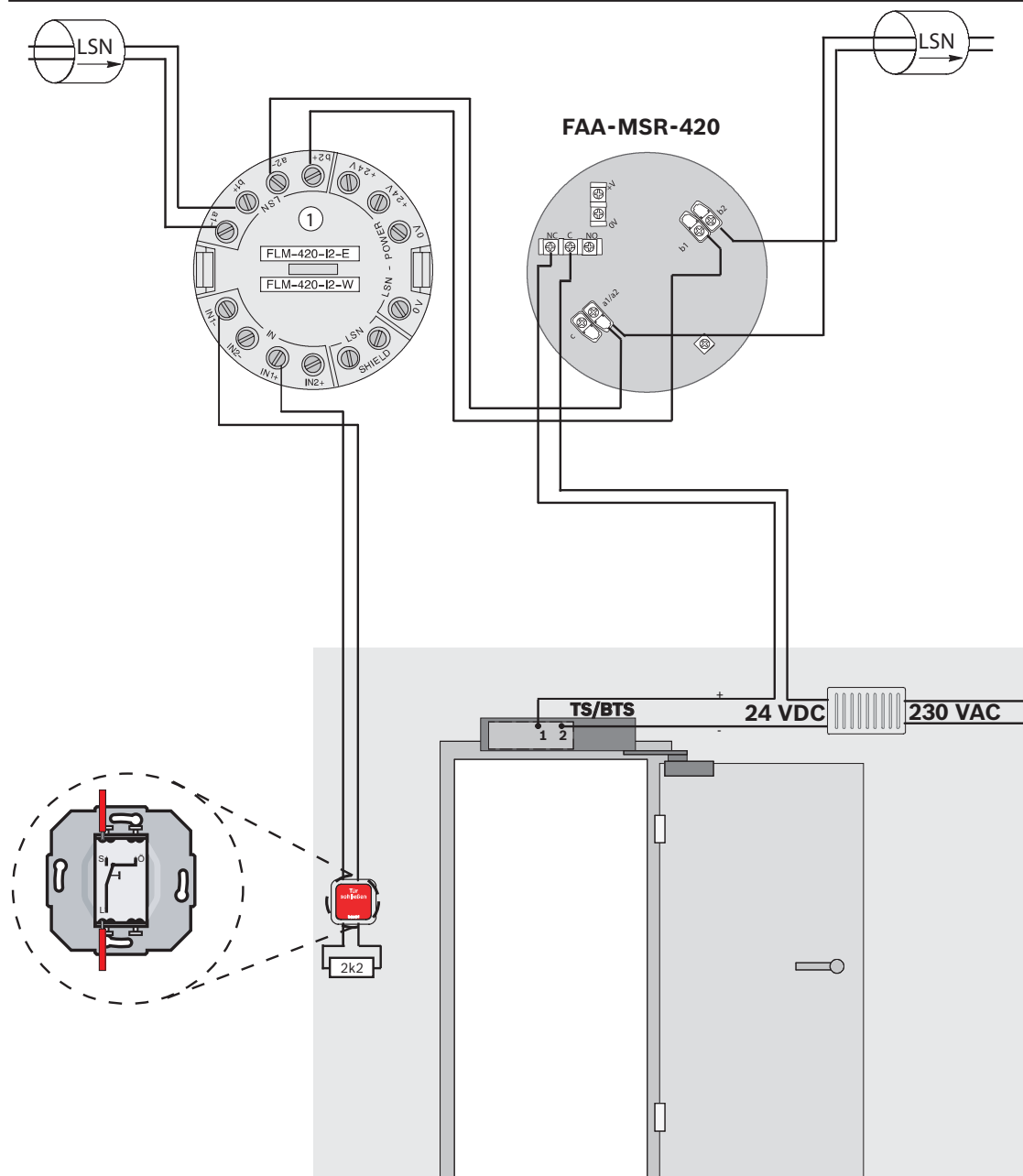
DIBT

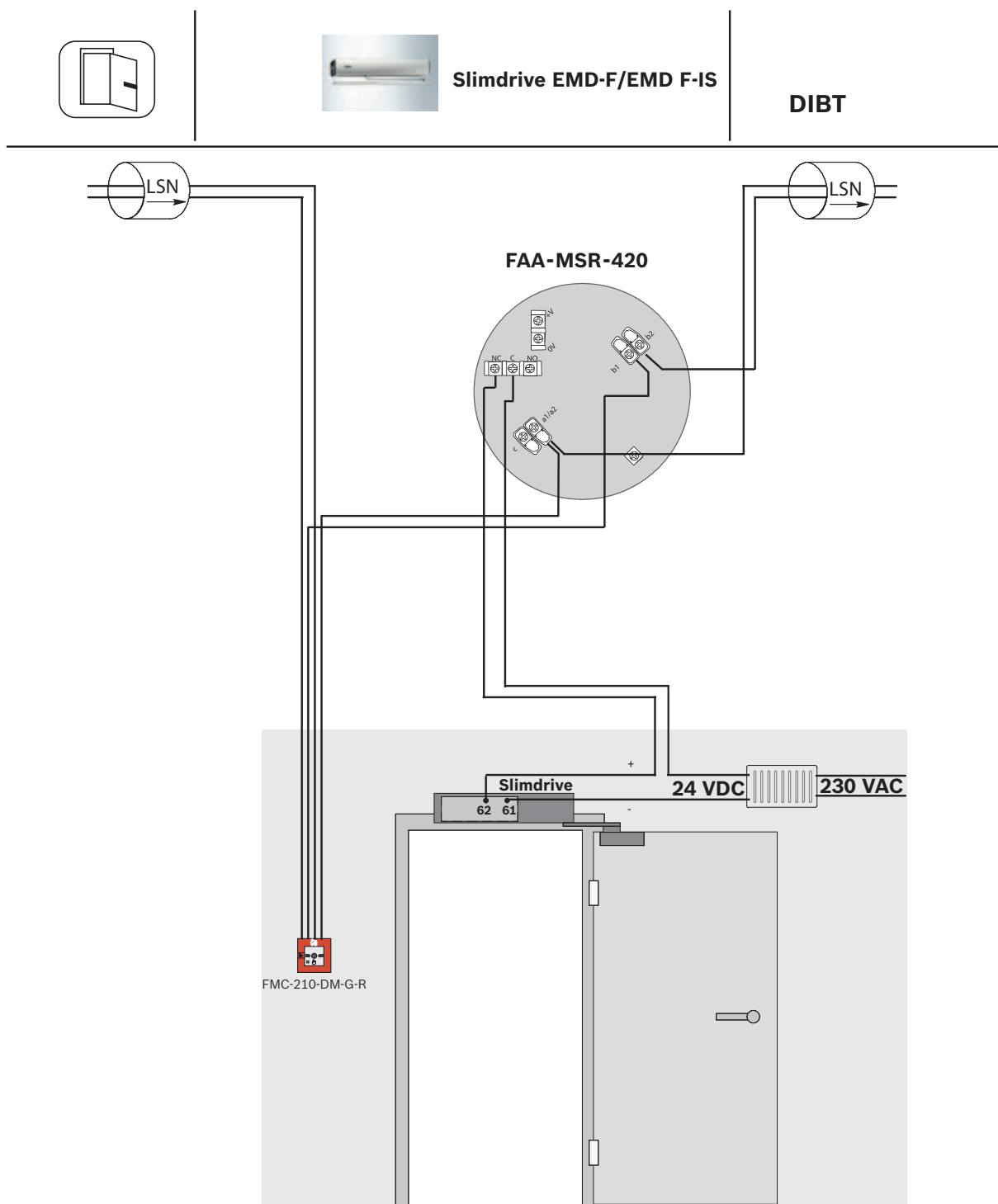




TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

DIBT

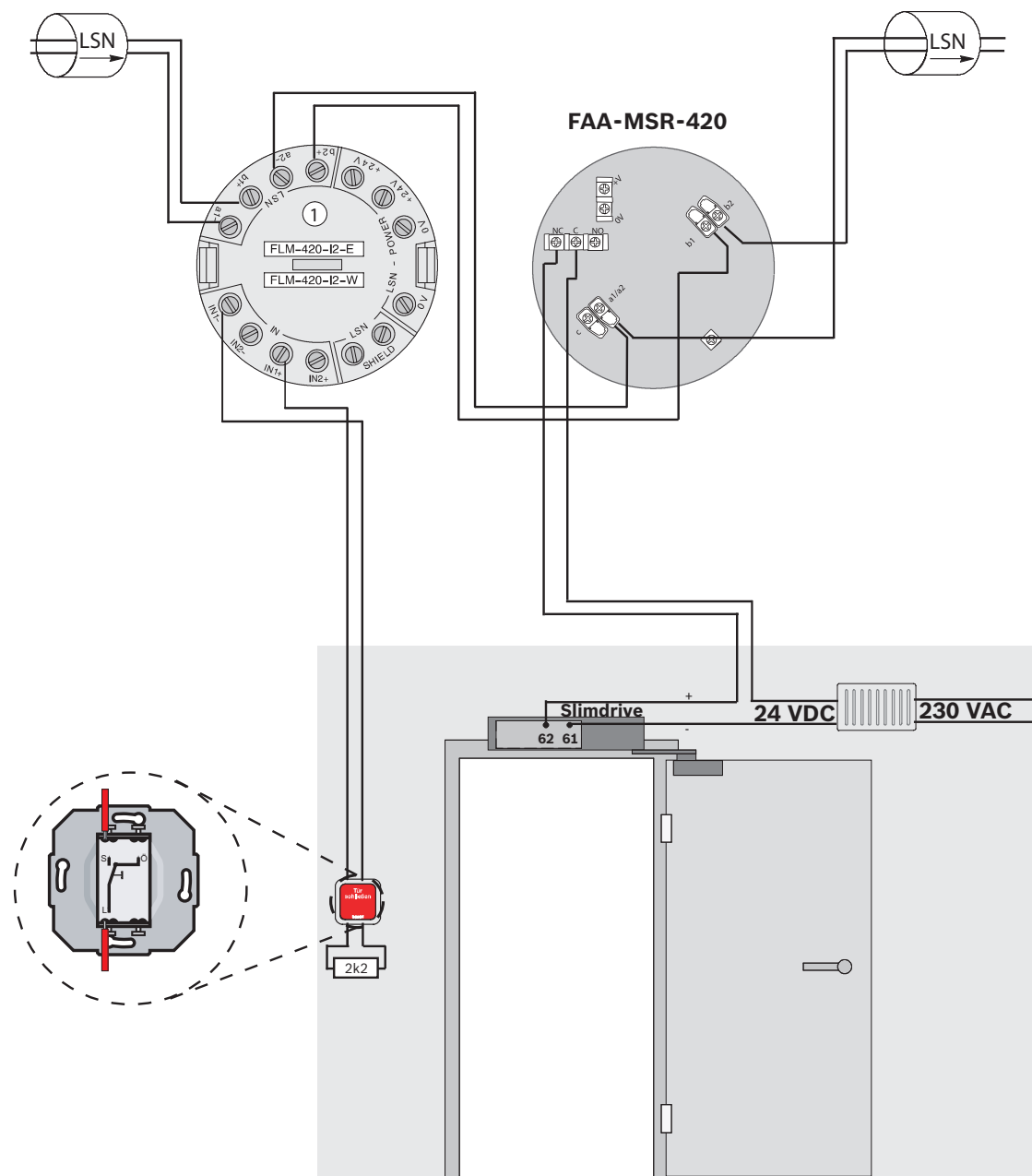






Slimdrive EMD-F/EMD F-IS

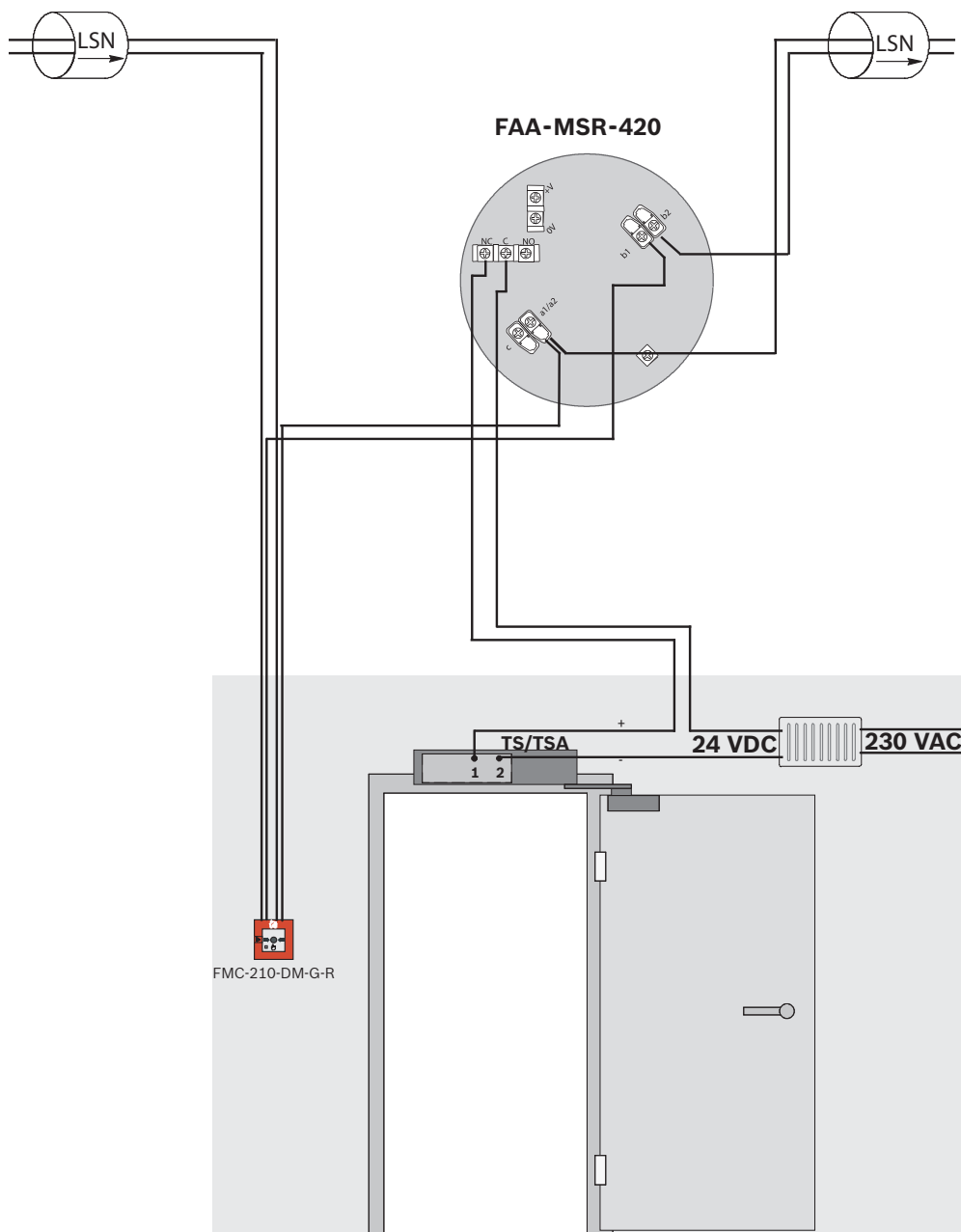
DIBT





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

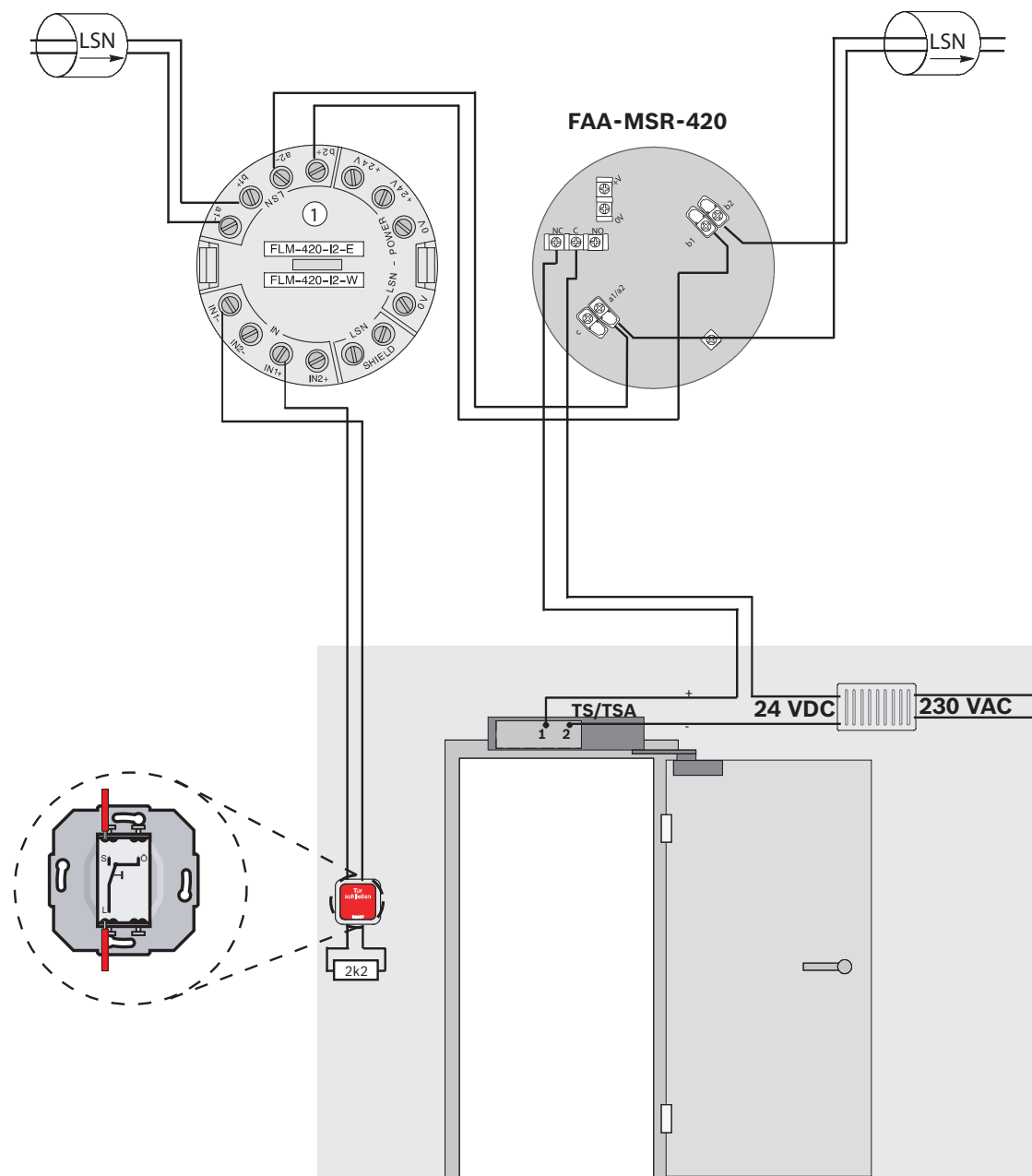
DIBT





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

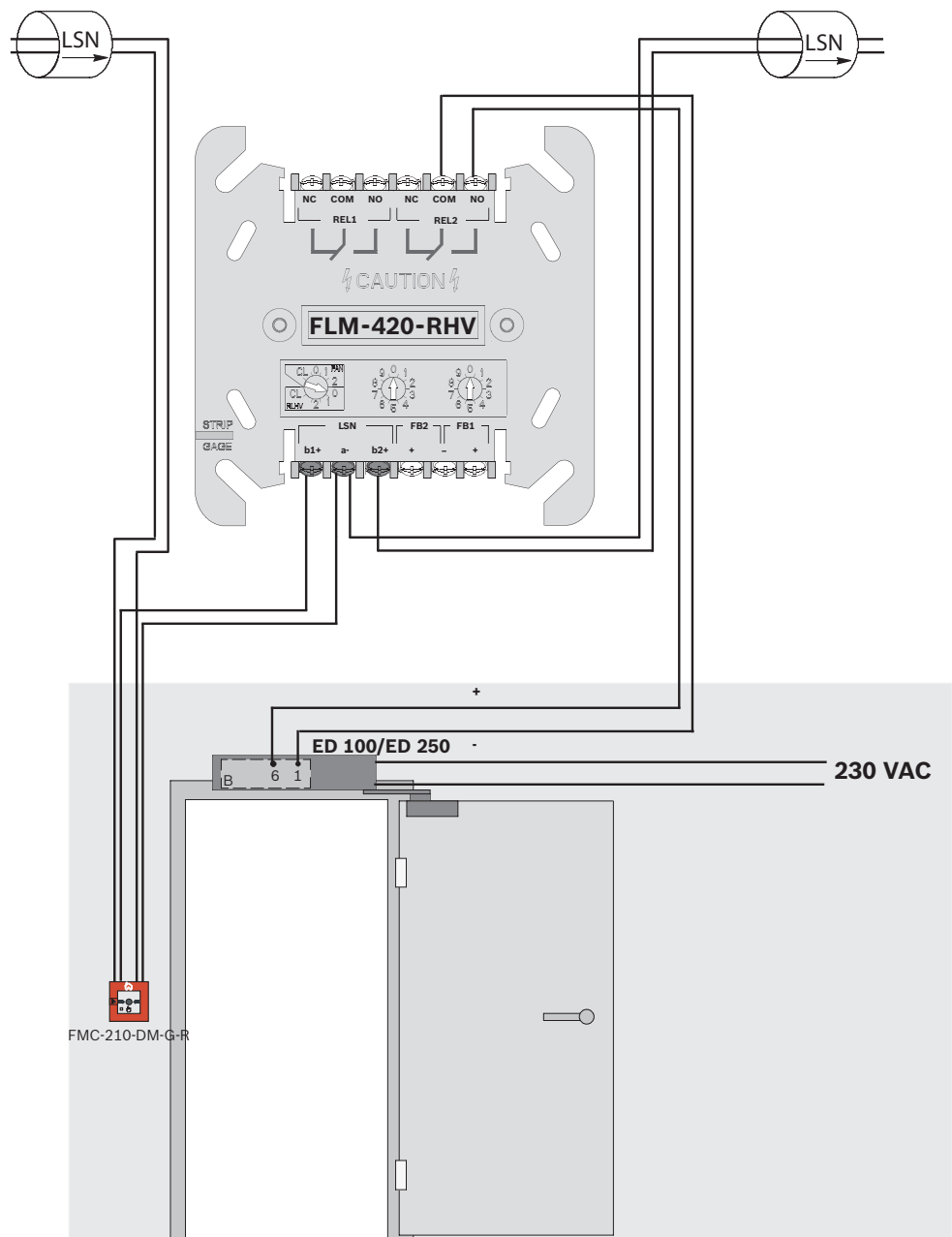
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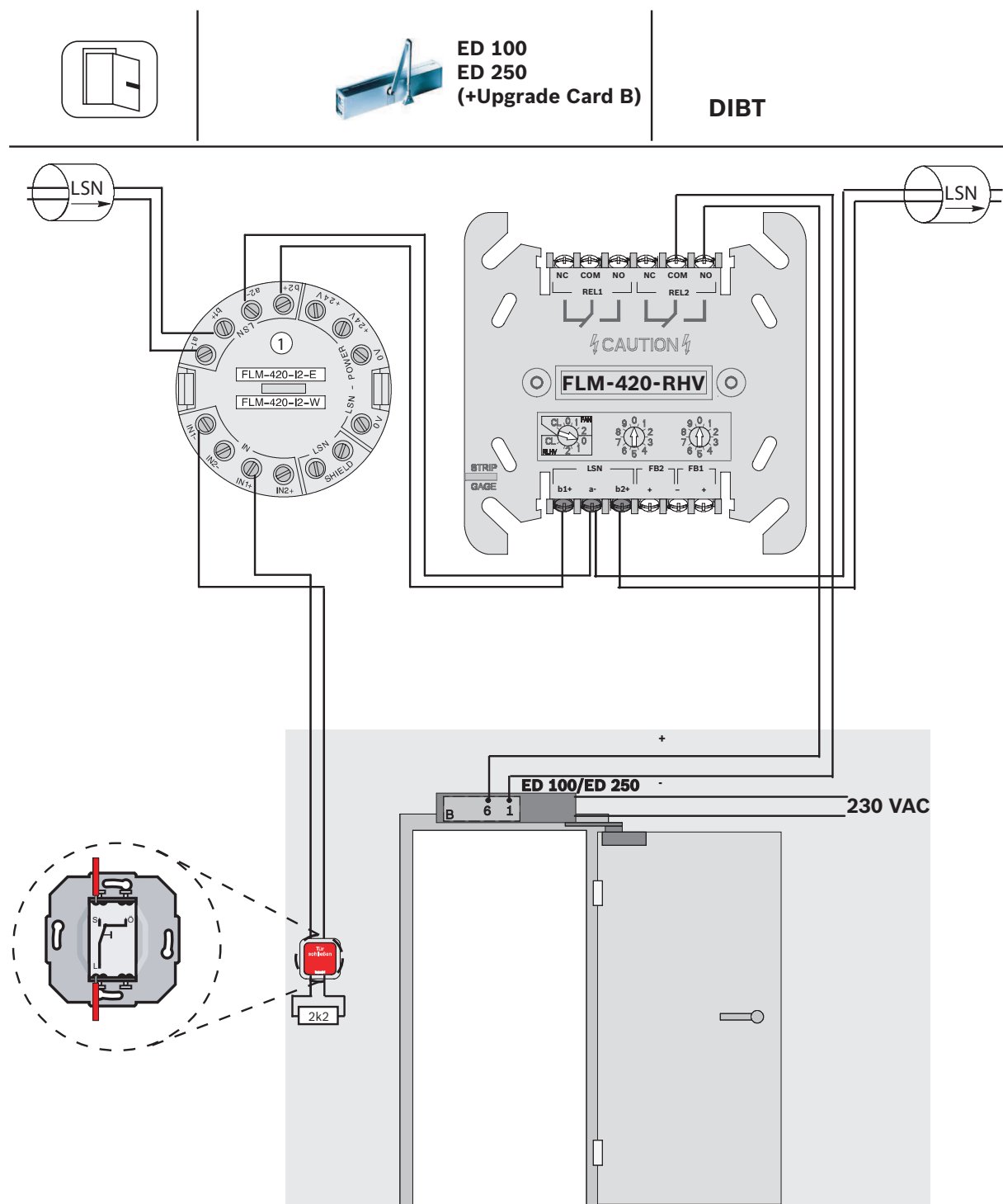


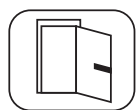


**ED 100
ED 250
(+Upgrade Card B)**

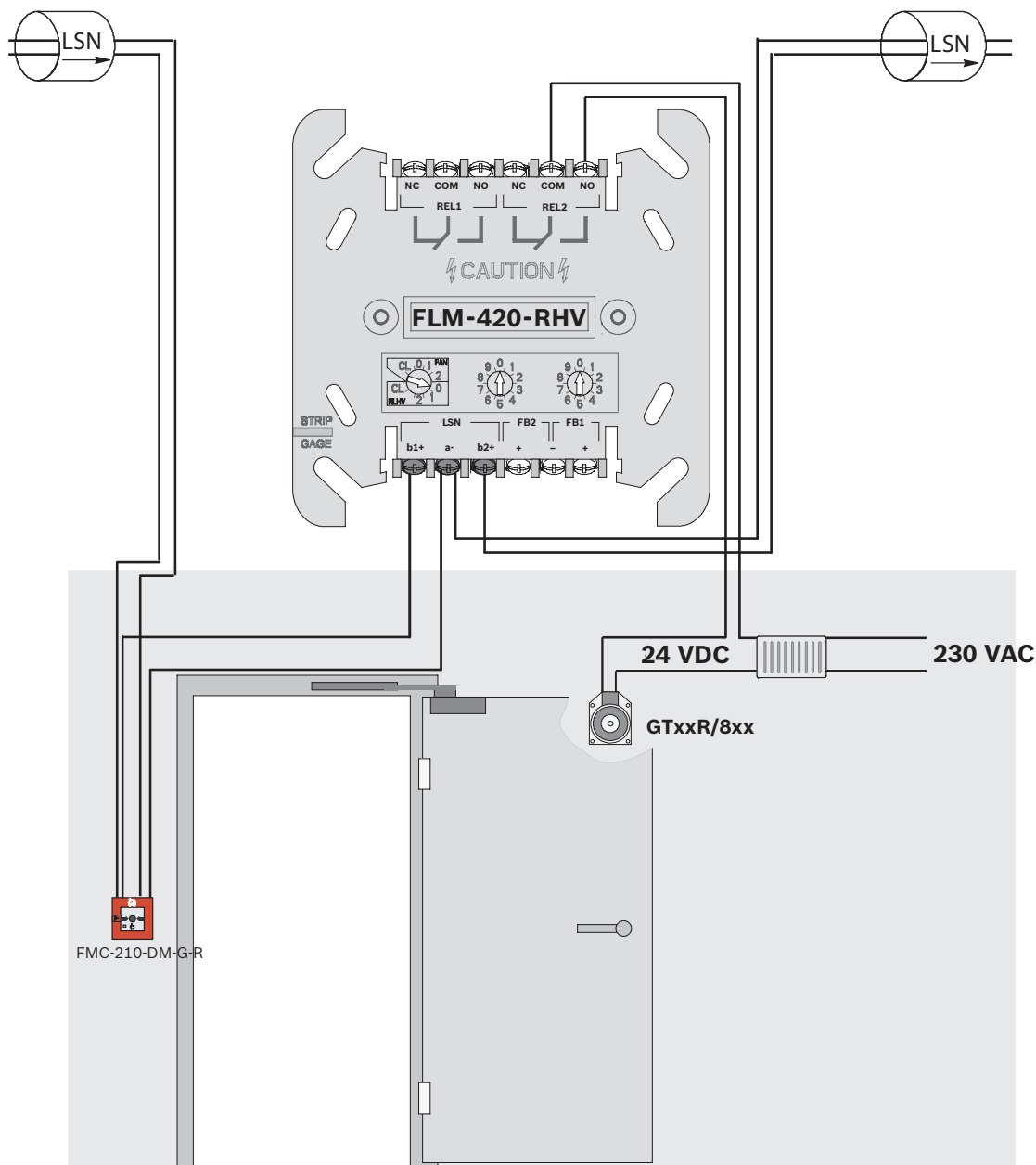
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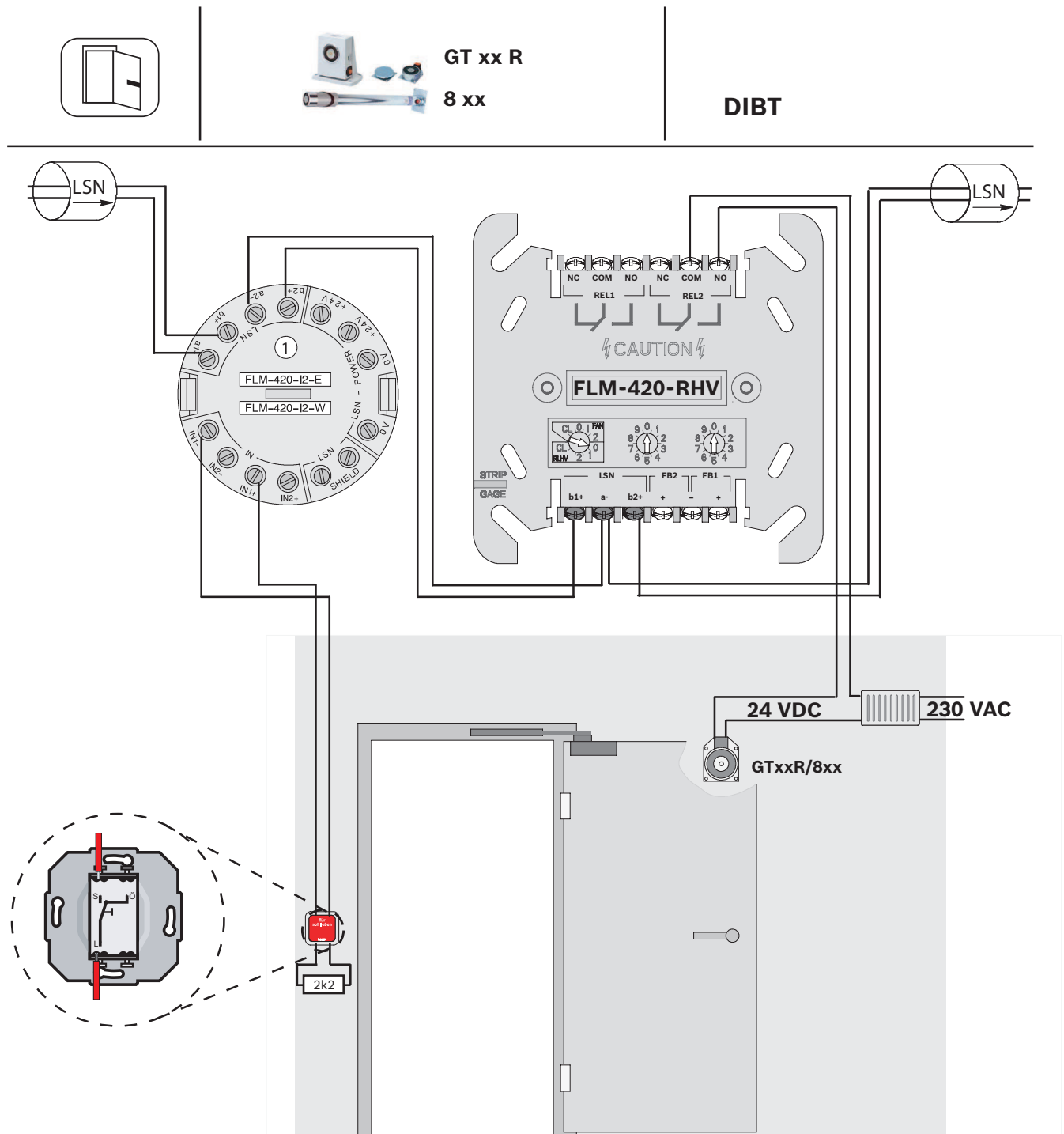






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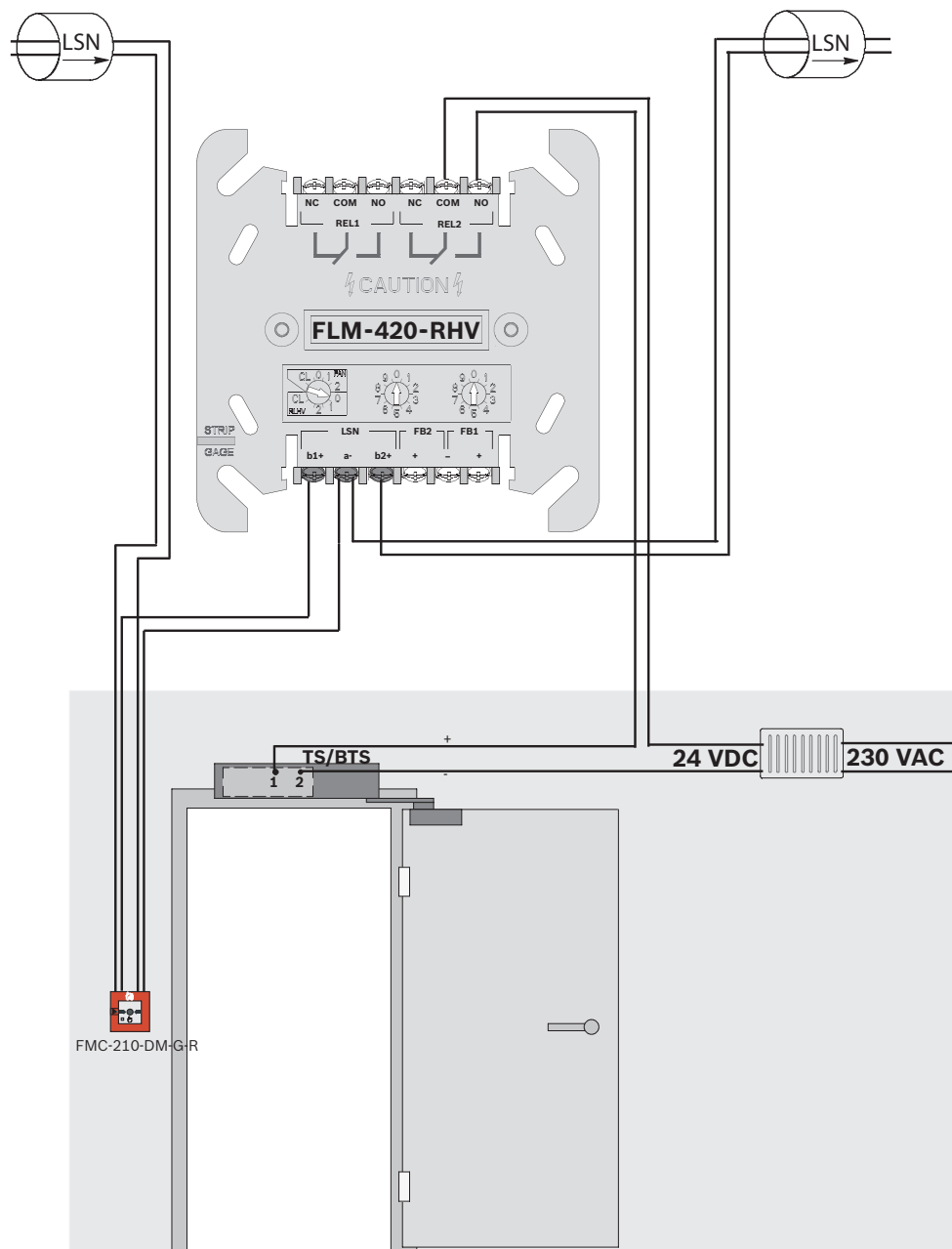






TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

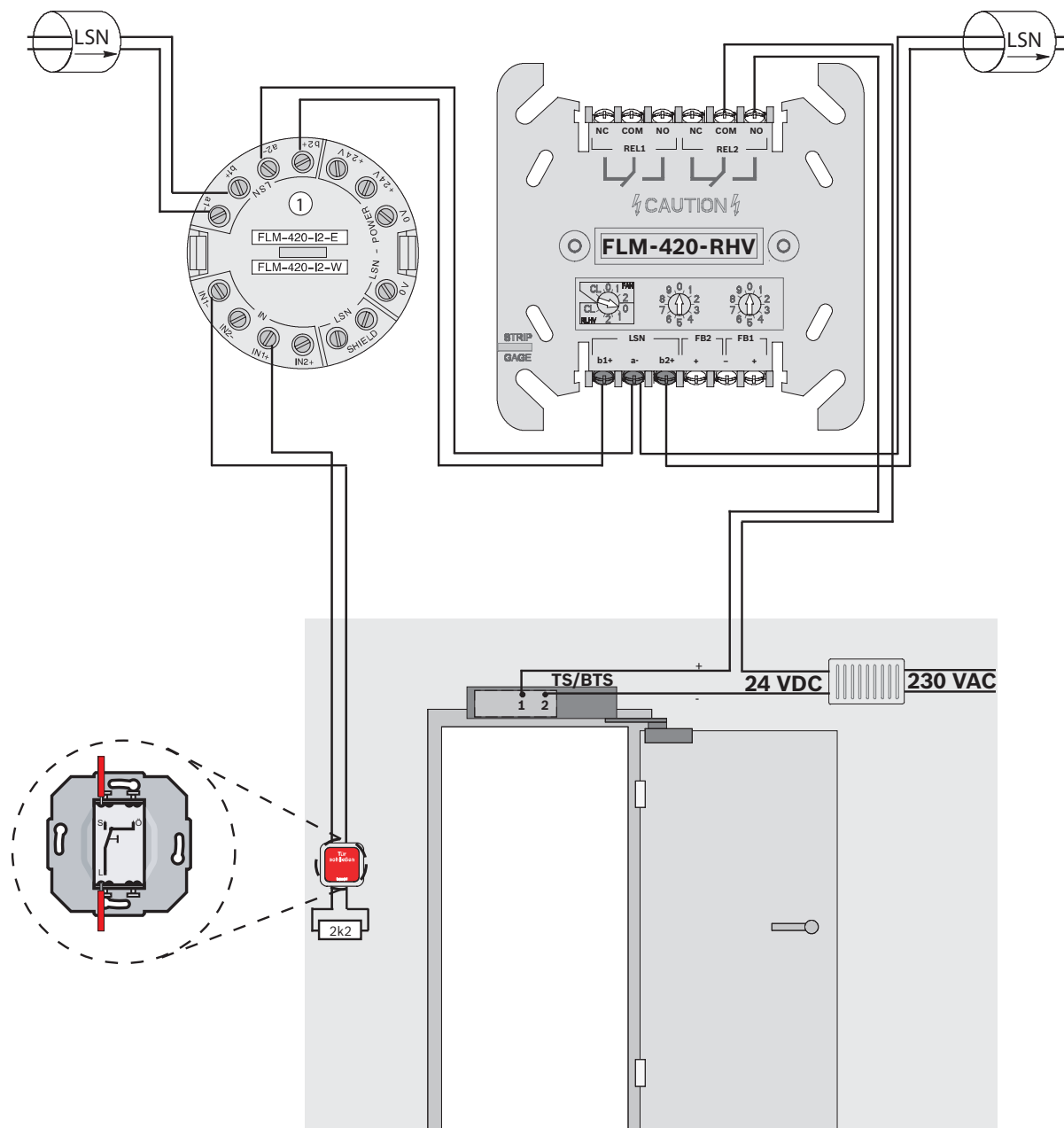
DIBT





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

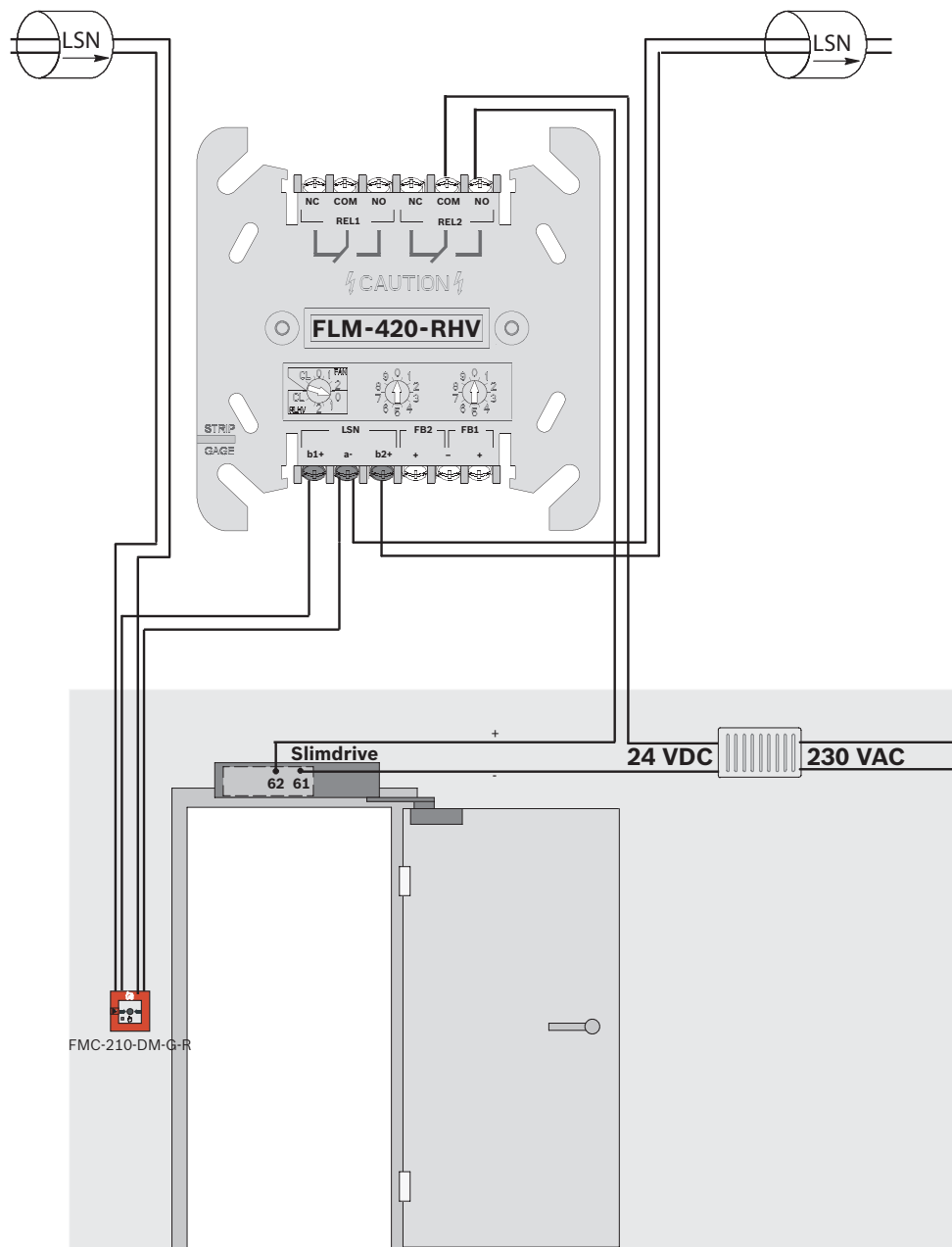
DIBT





Slimdrive EMD-F/EMD F-IS

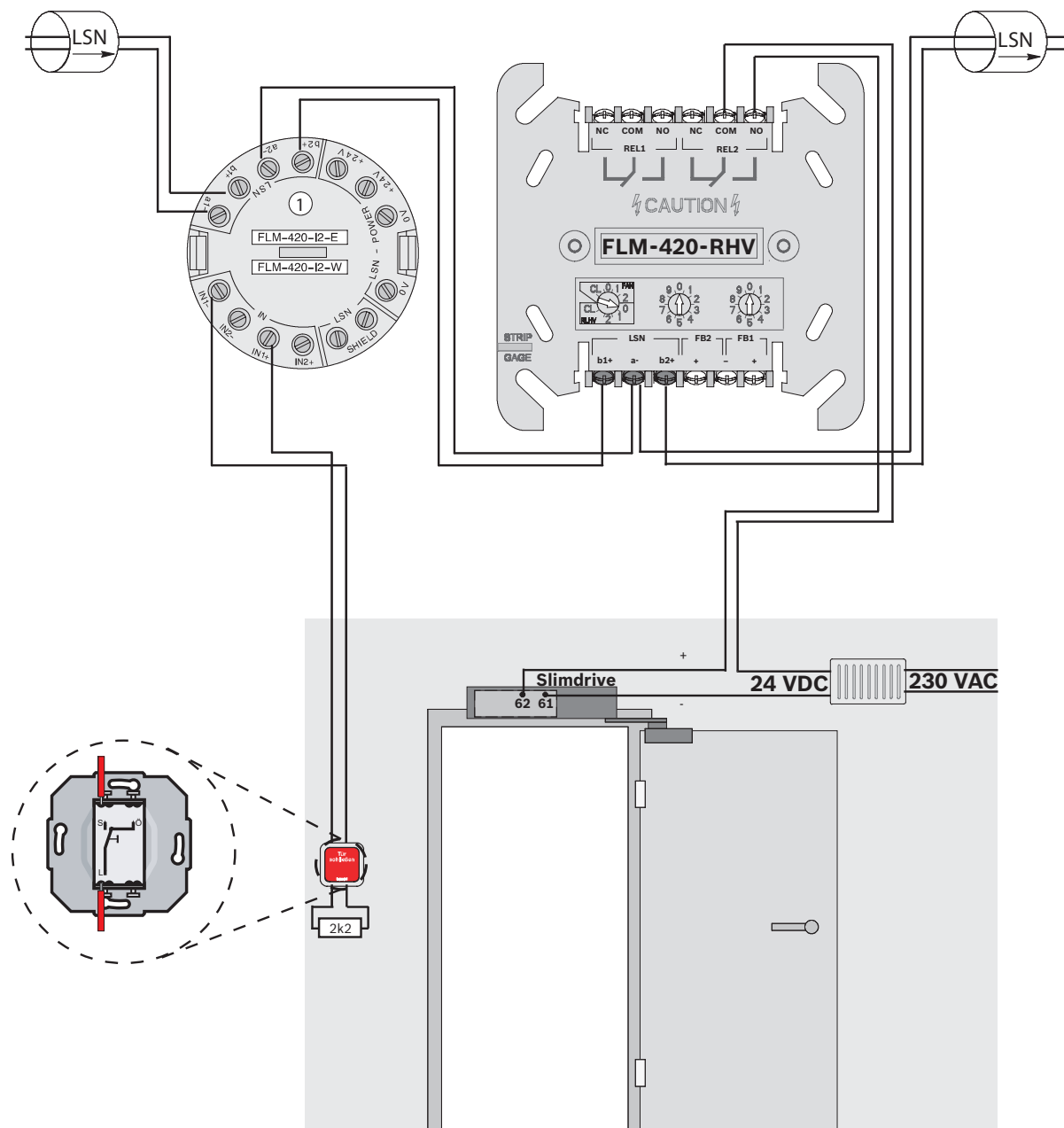
DIBT





Slimdrive EMD-F/EMD F-IS

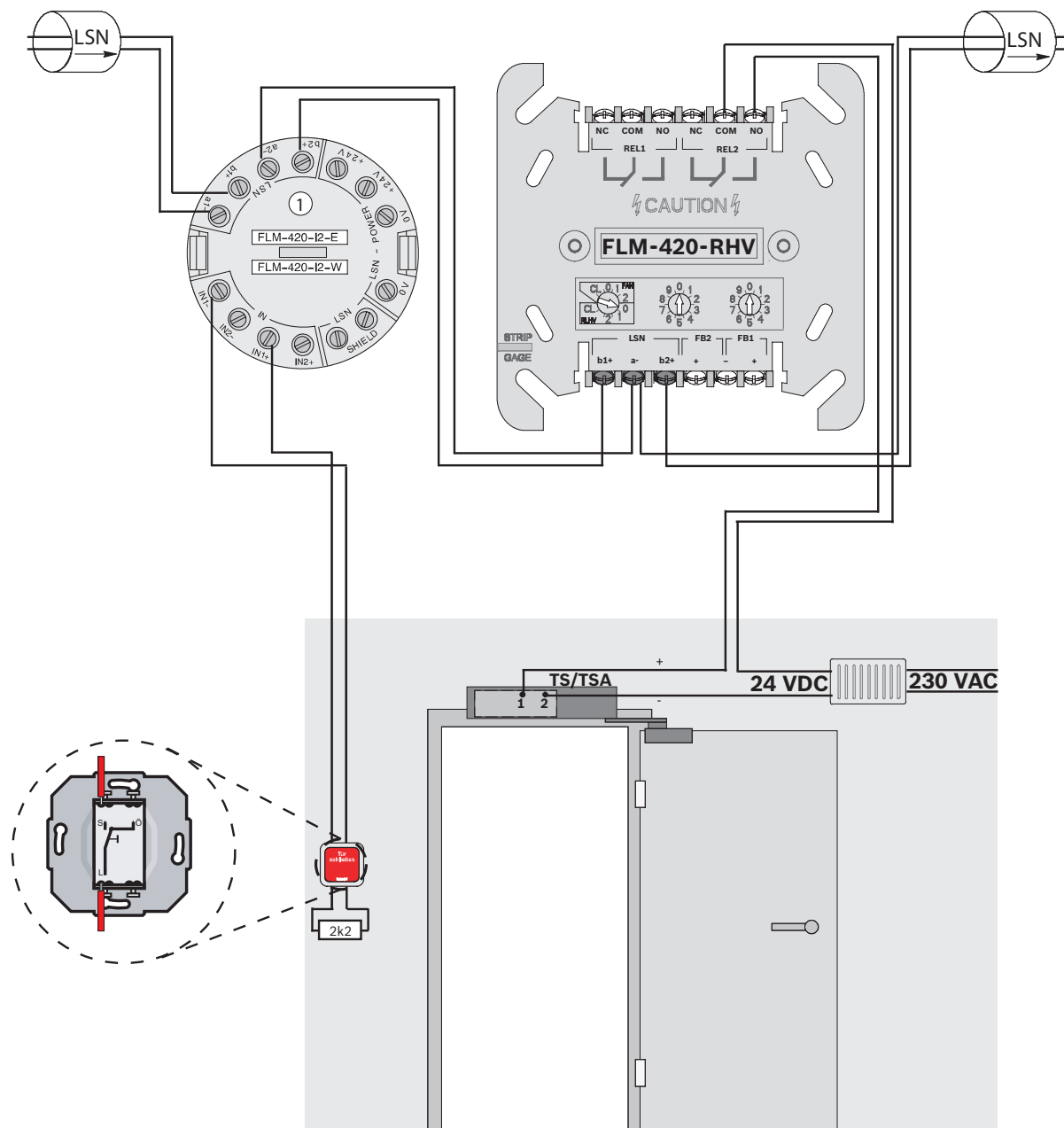
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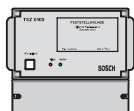




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

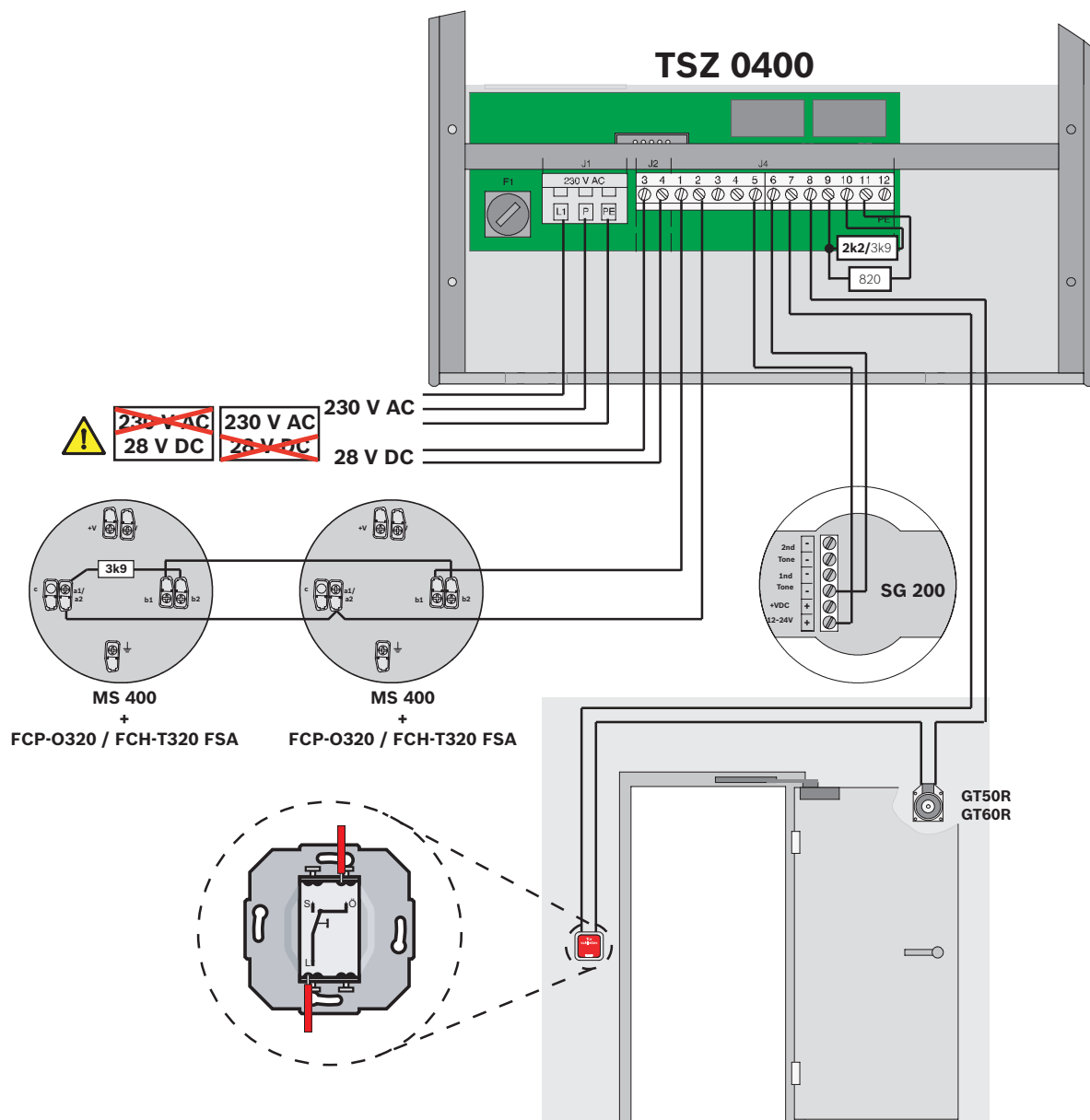
DIBT





TSZ 0400

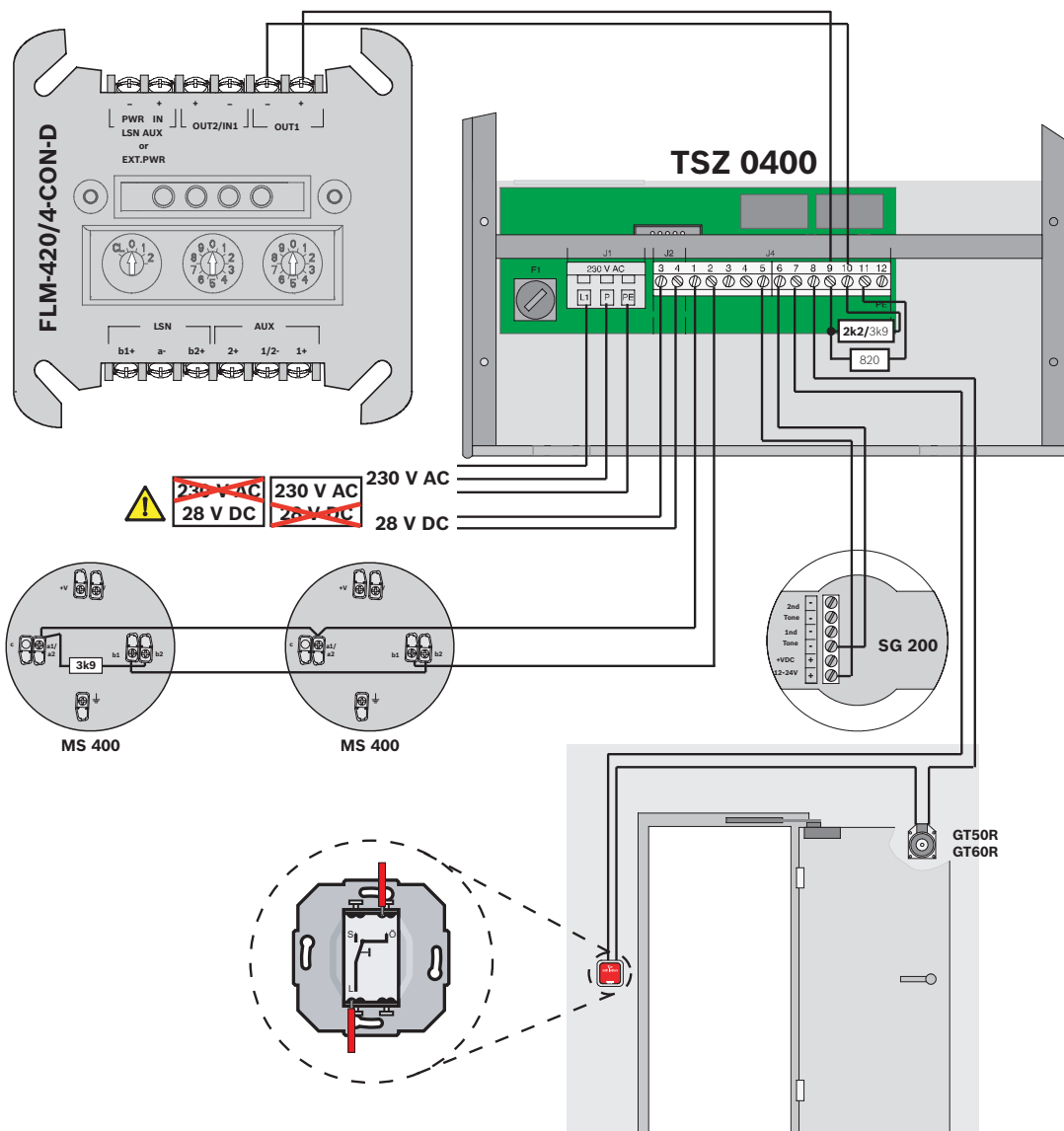
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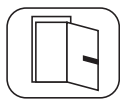




TSZ 0400

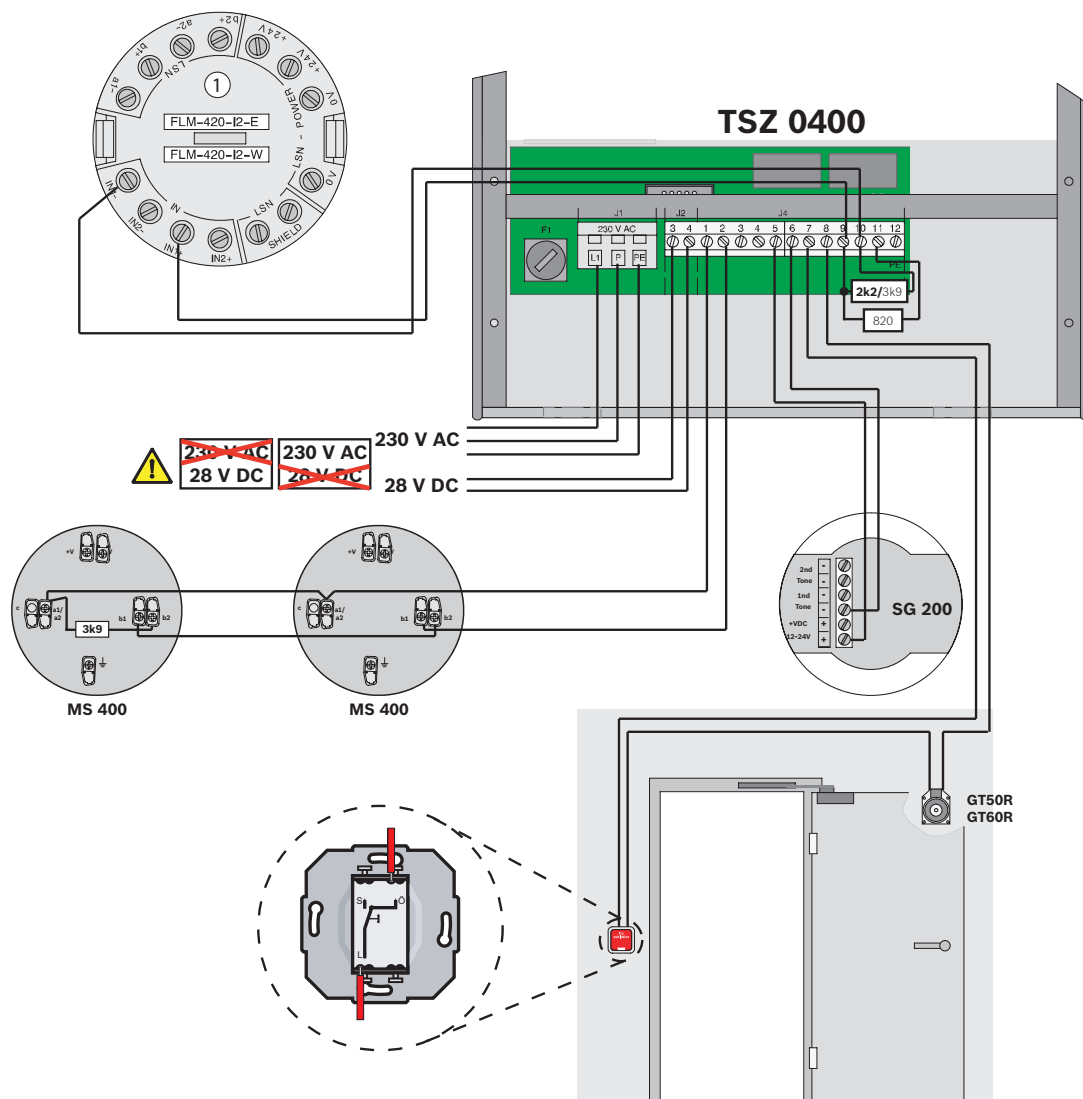
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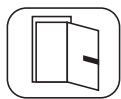




TSZ 0400

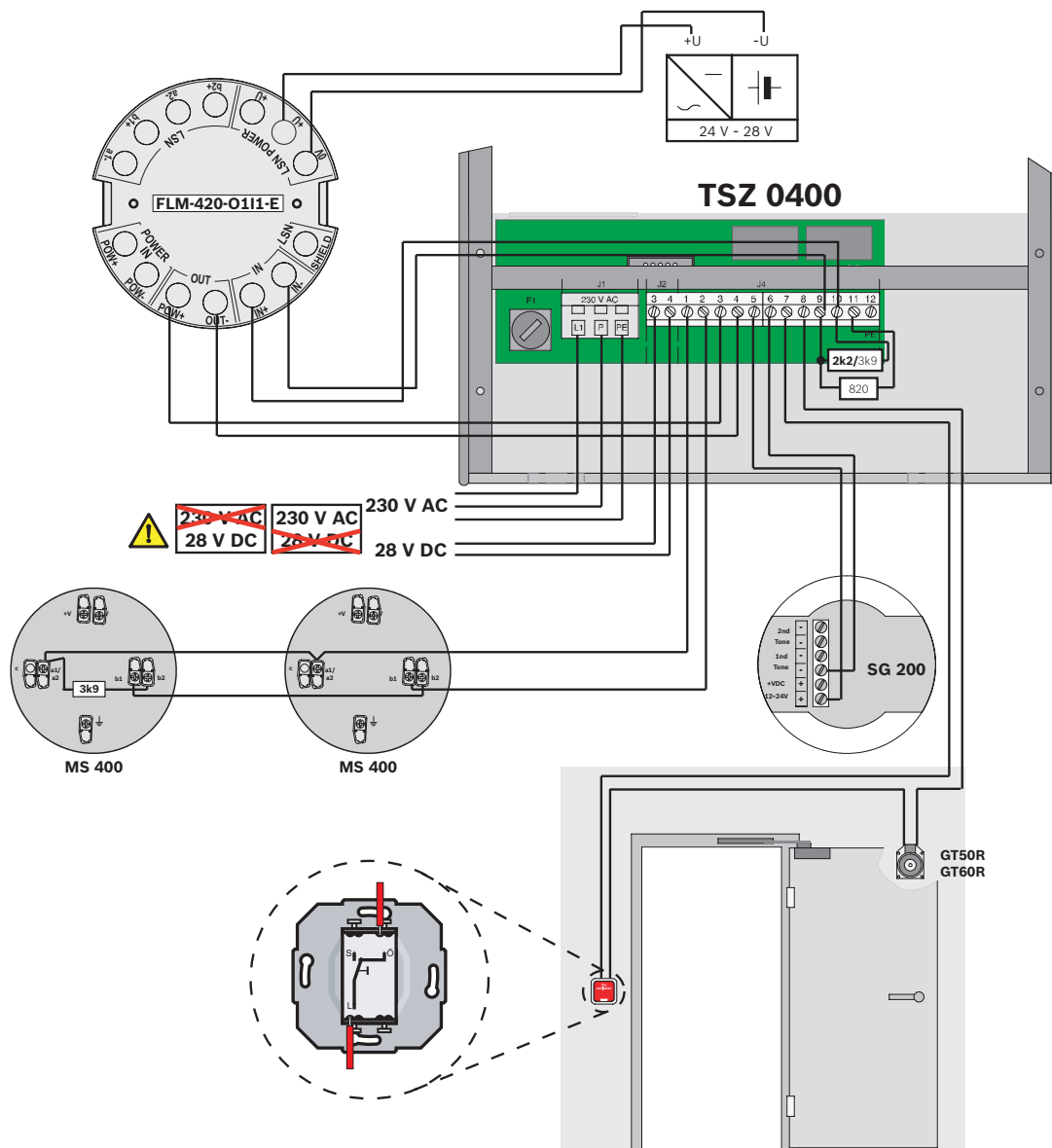
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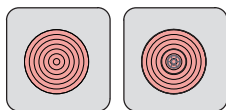




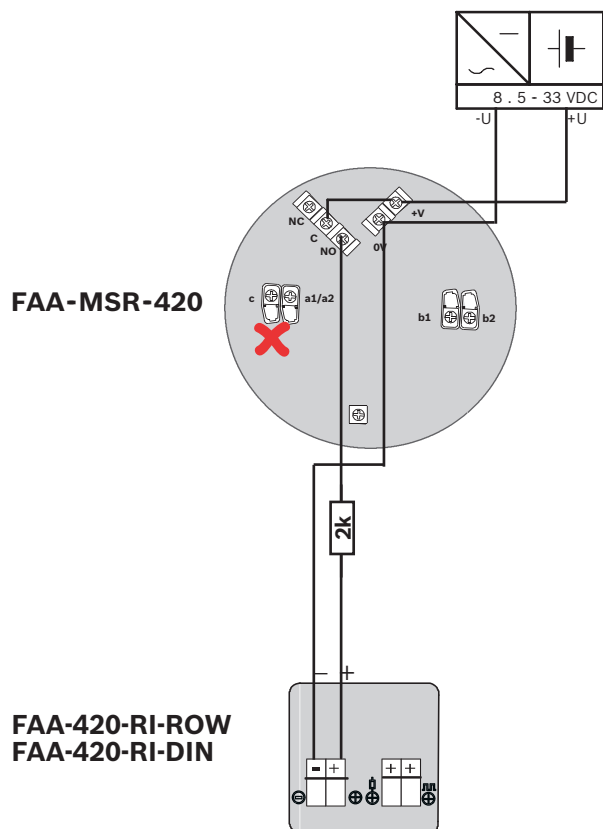
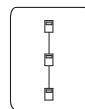
TSZ 0400

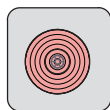
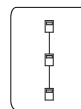
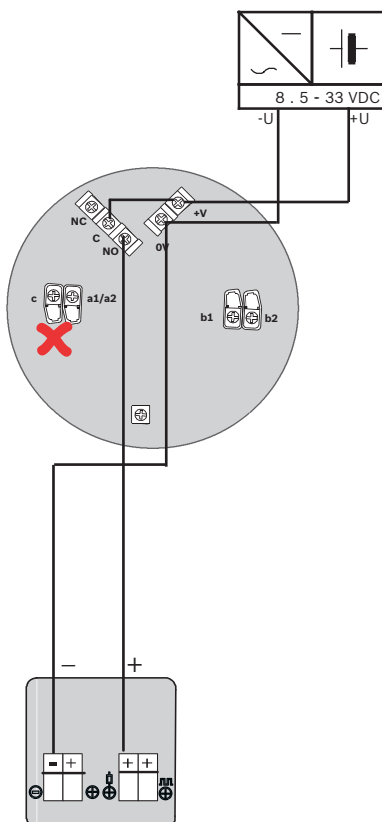
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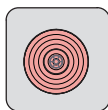
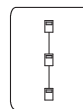
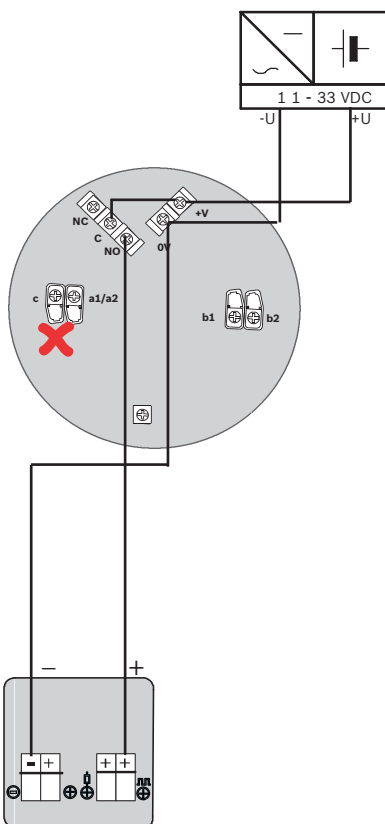




FAA-420-RI-ROW
FAA-420-RI-DIN



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


FAA-420-RI-DIN

FAA-MSR-420


3.3

Moduły funkcjonalne



BCM-0000-B, Strona 50

CZM 0004 A, Strona 52

ENO 0000 A/B, Strona 56

LSN 0300 A, Strona 63

NZM 0002 A, Strona 98

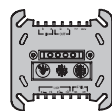
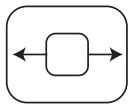
RMH 0002 A, Strona 114

IOS 0020 A, Strona 117

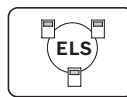
FPE-5000-UGM, Strona 132

3.3.1

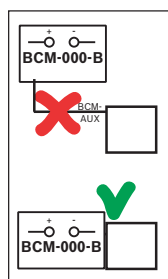
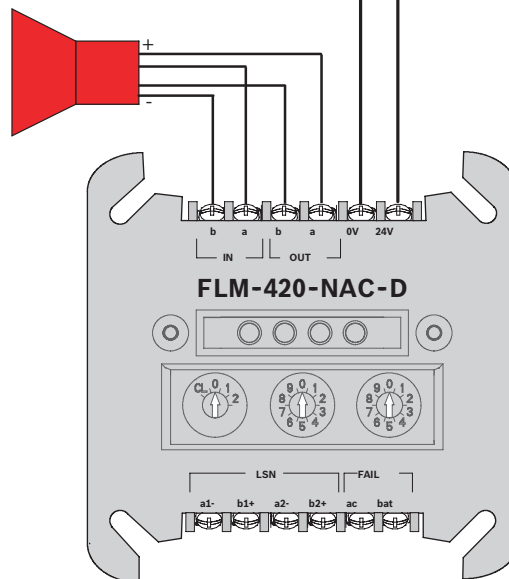
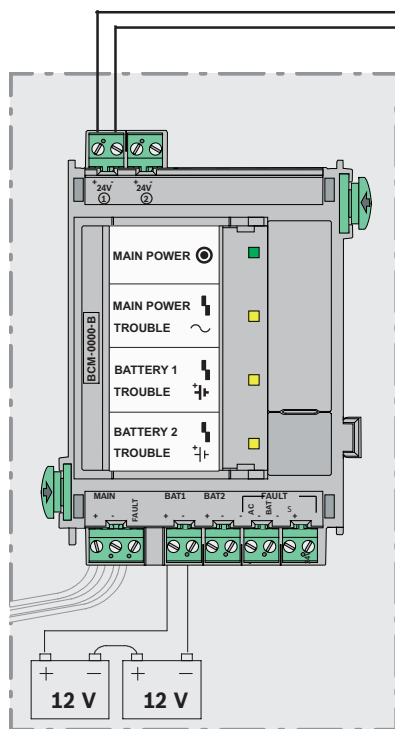
BCM-000-B

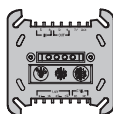
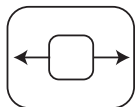


FLM-420-NAC-D

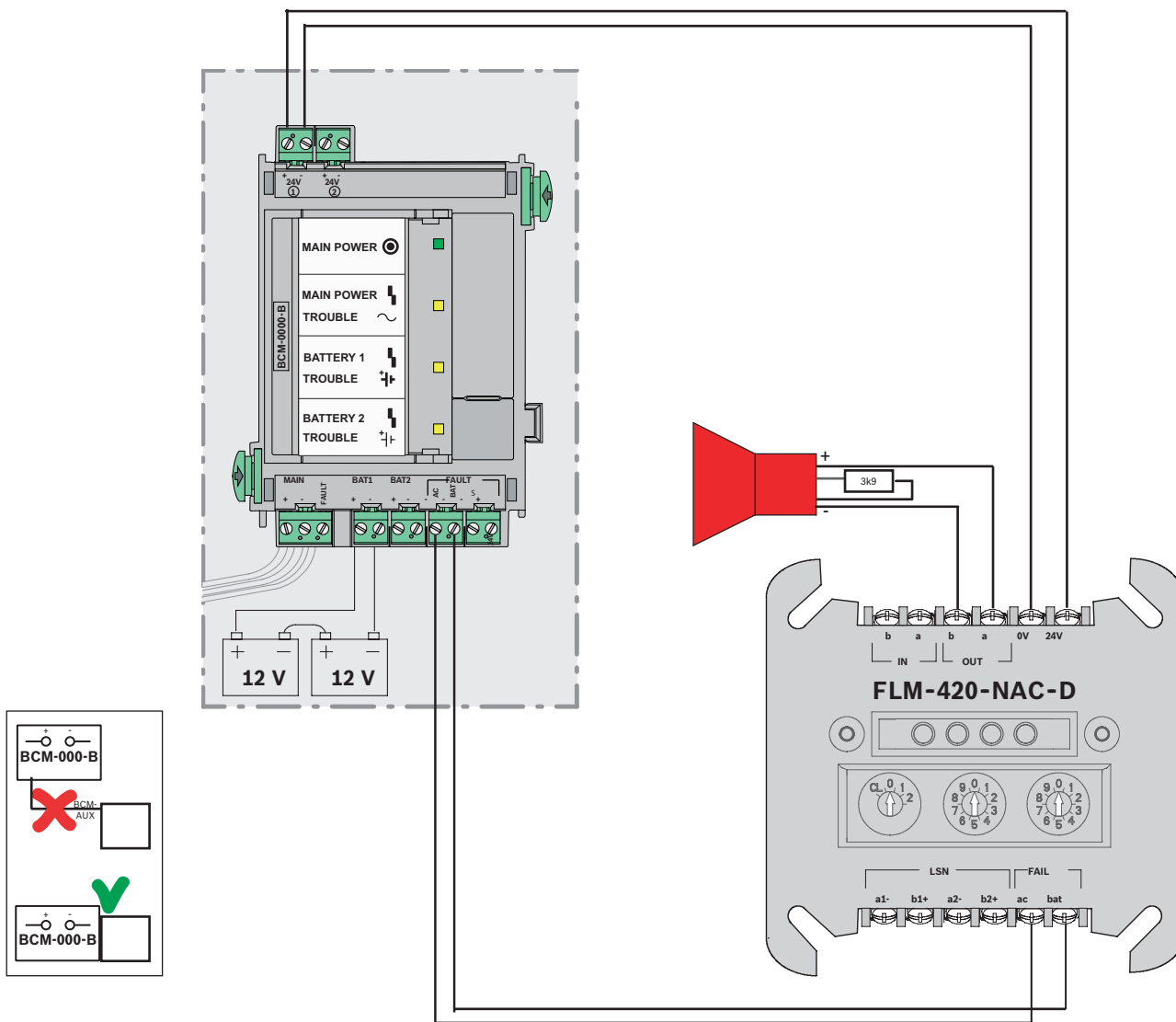
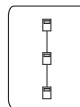


VdS 2489





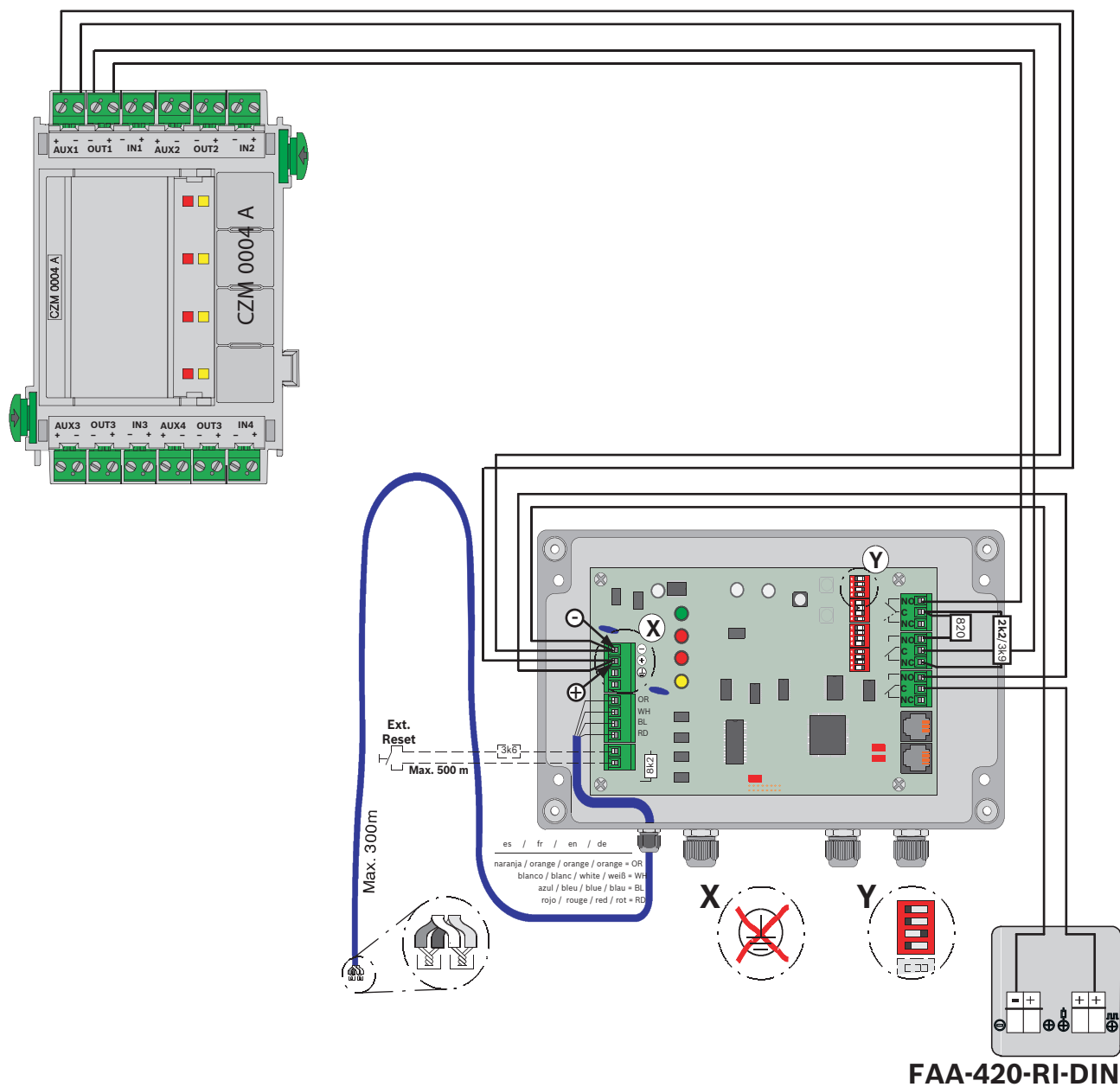
FLM-420-NAC-D

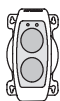


3.3.2 CZM 0004 A

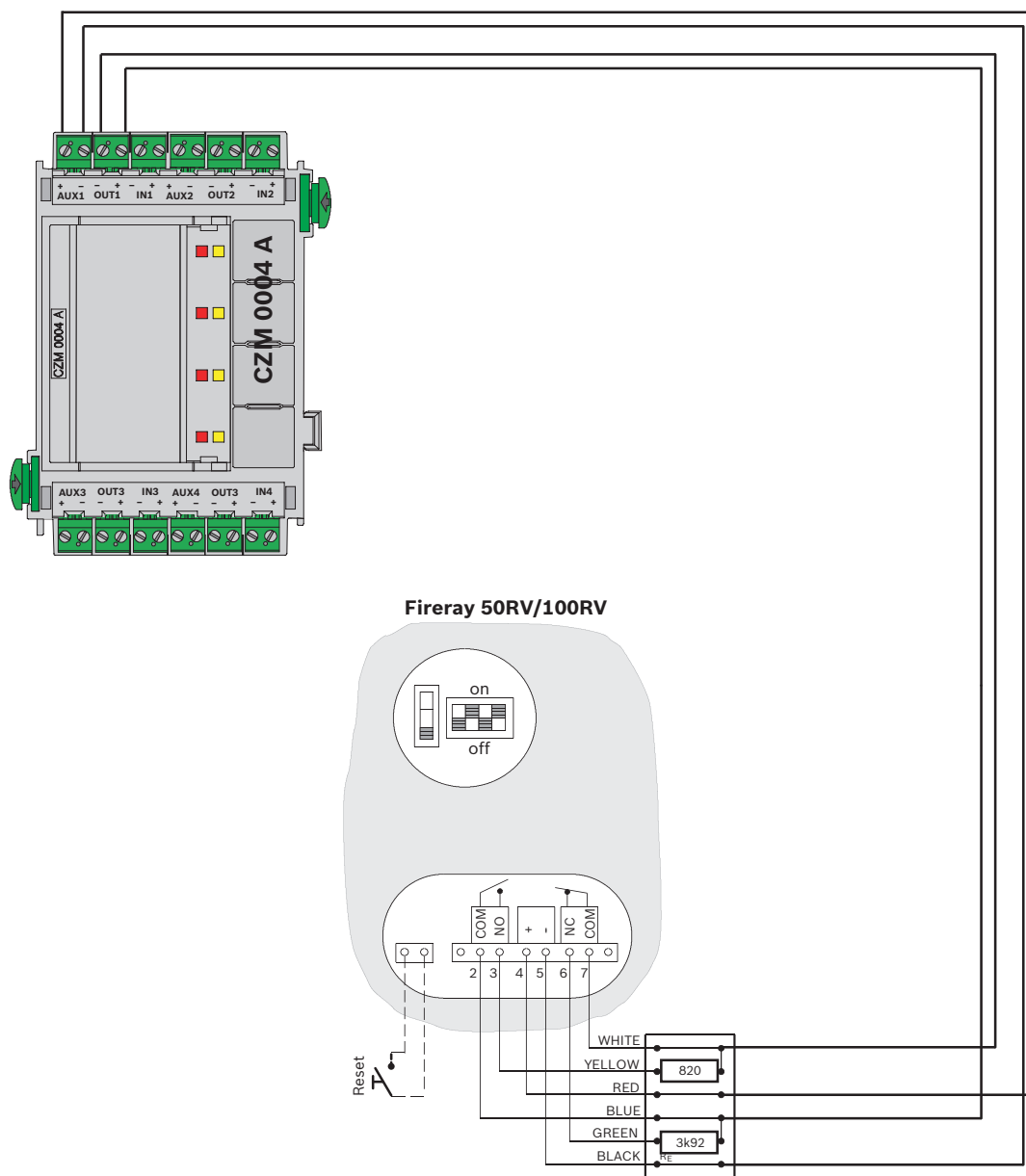


FCS-LWM-1



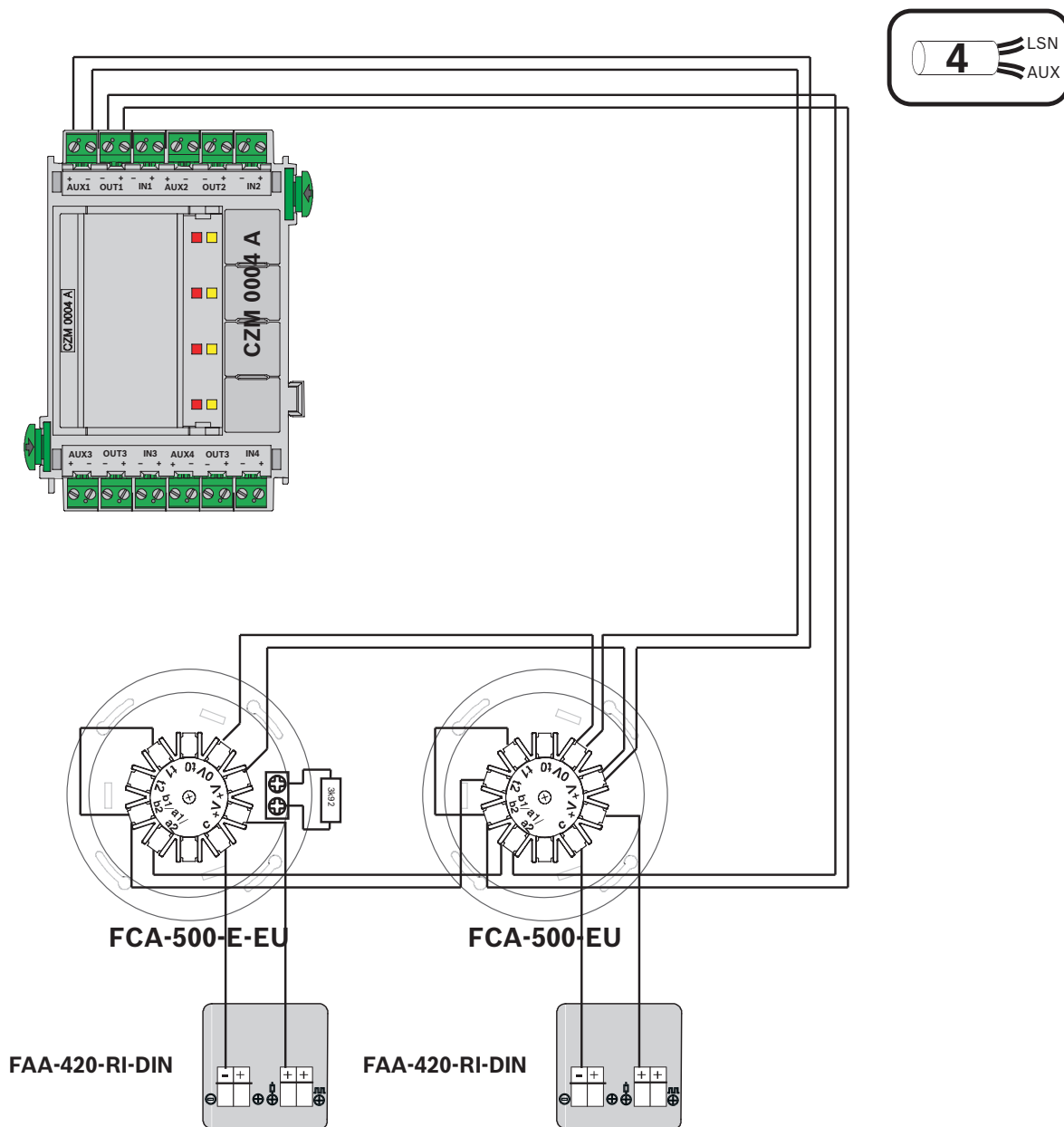
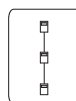


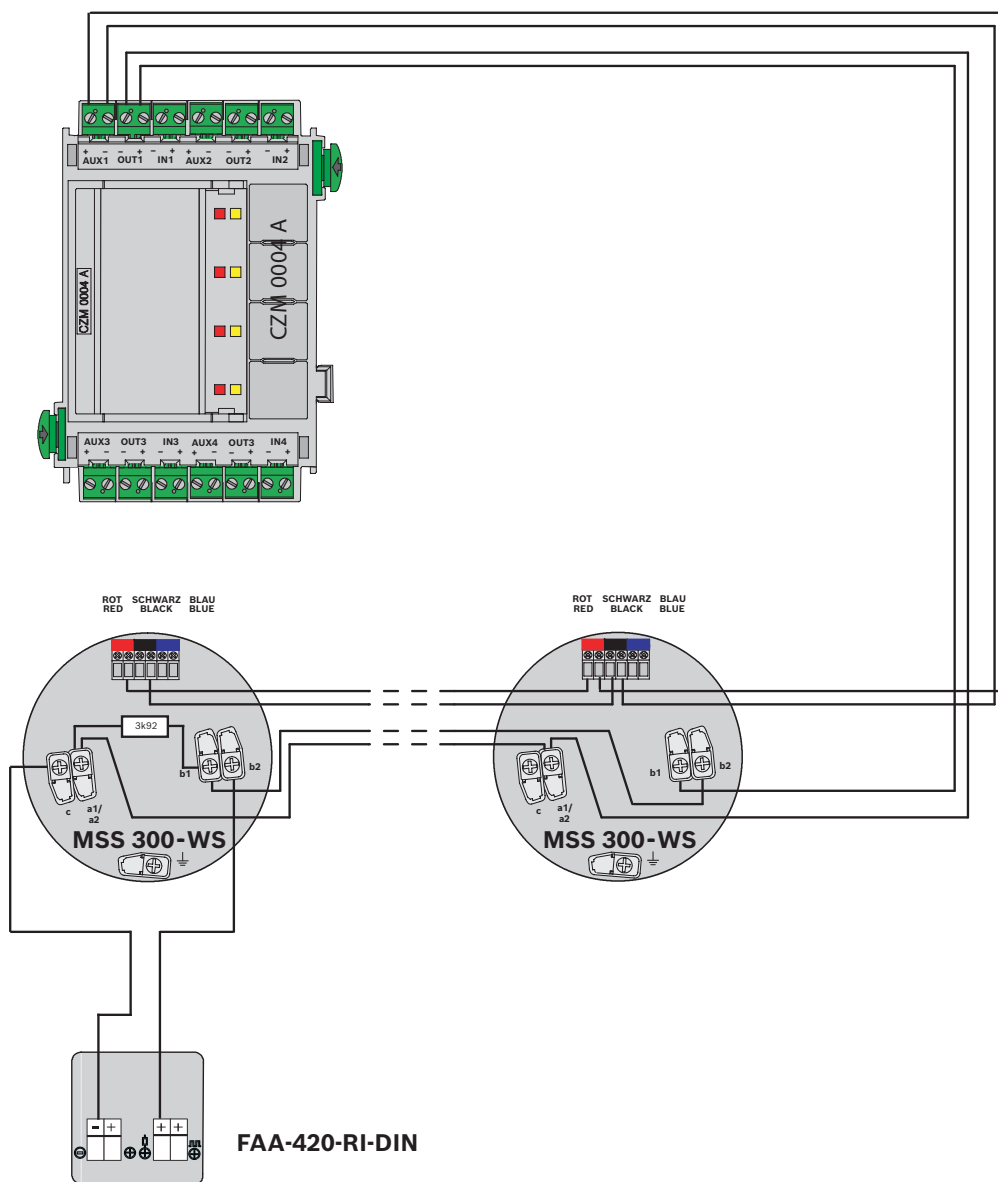
Fireray 50RV
Fireray 100RV





FCP-500

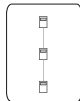


**MSS 300-WS**

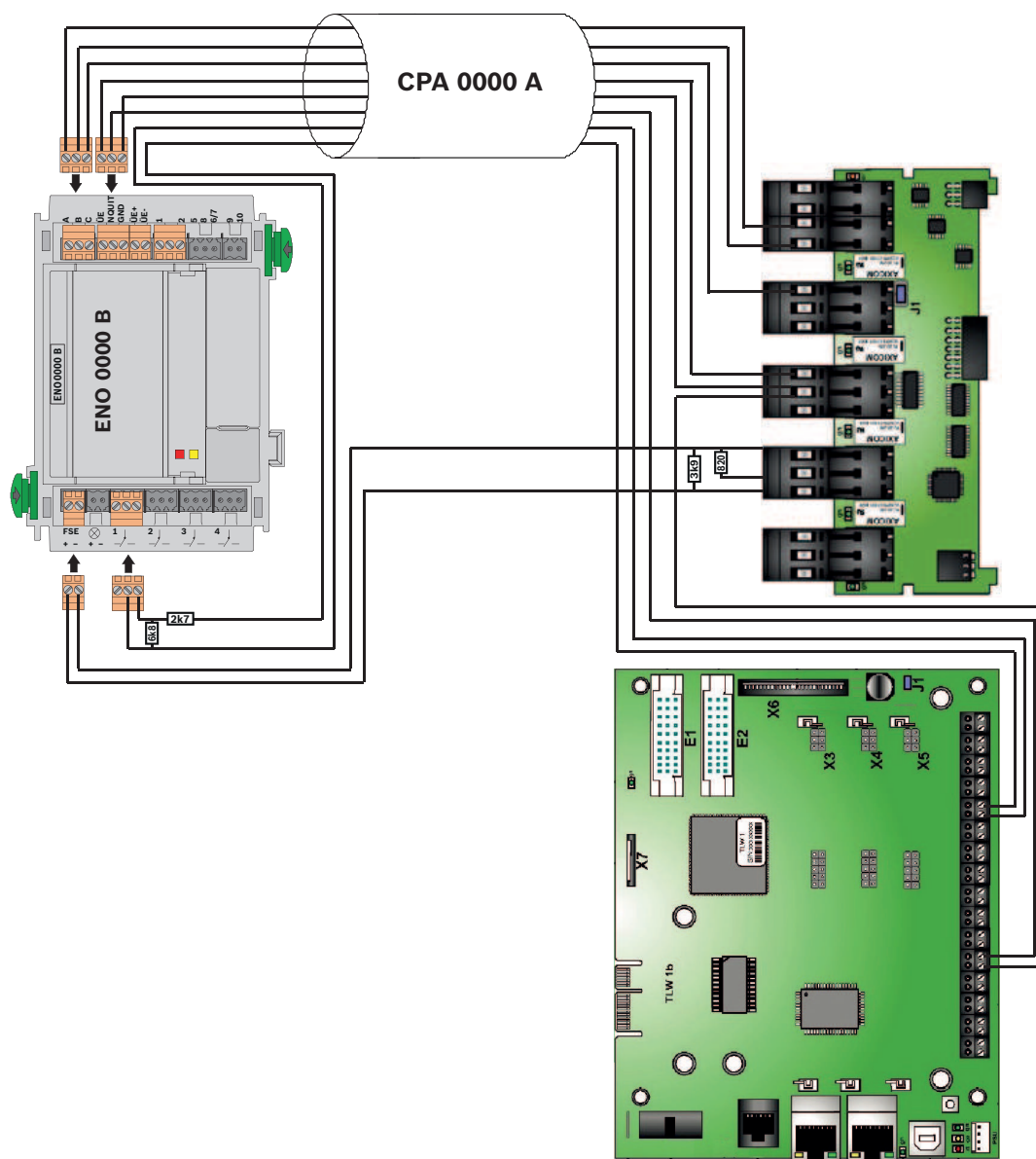
3.3.3 ENO 0000 A/B

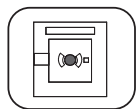
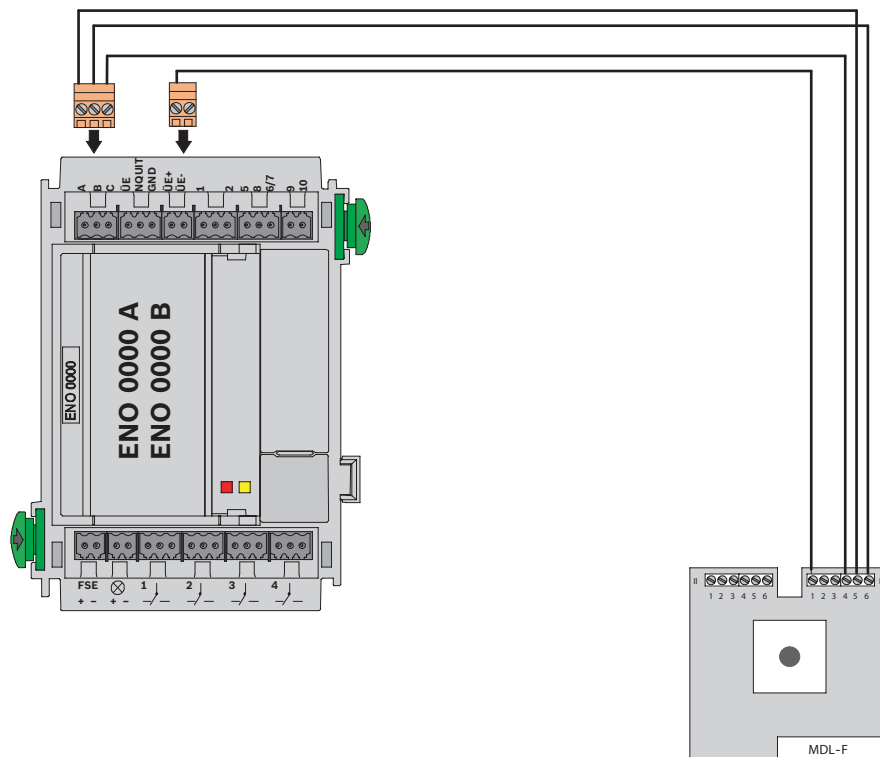


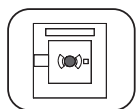
AT5000 IP/GPRS



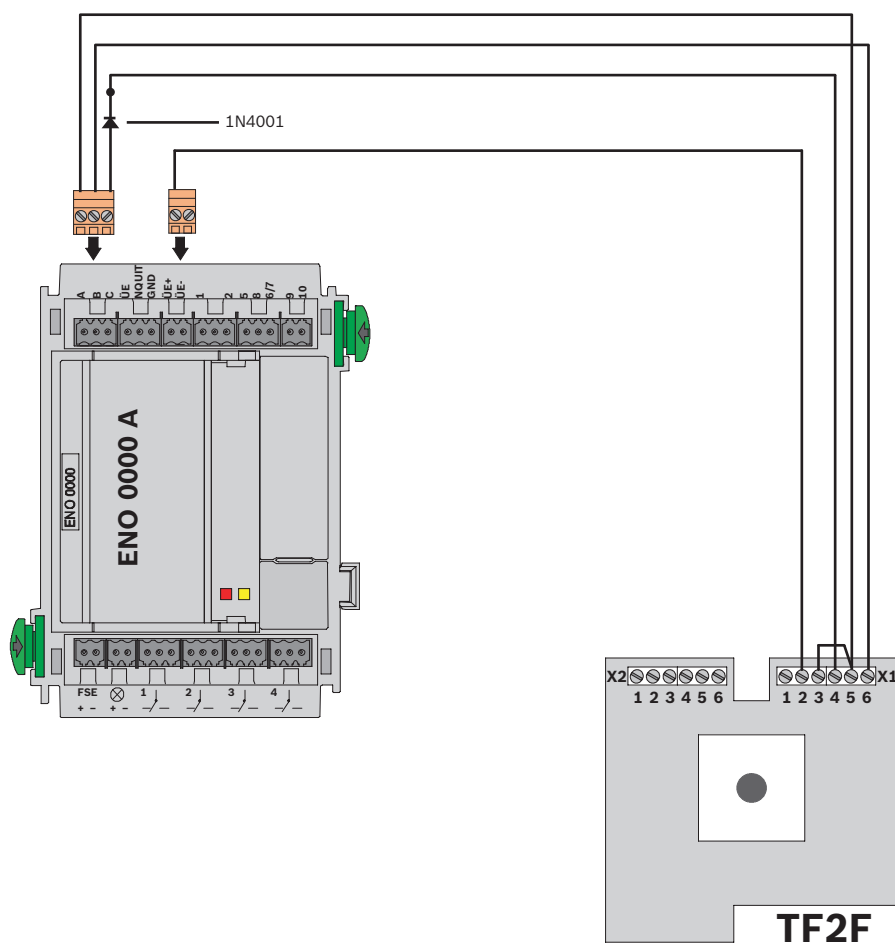
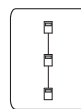
EN 54-2

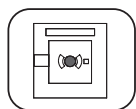


**MDL-F**

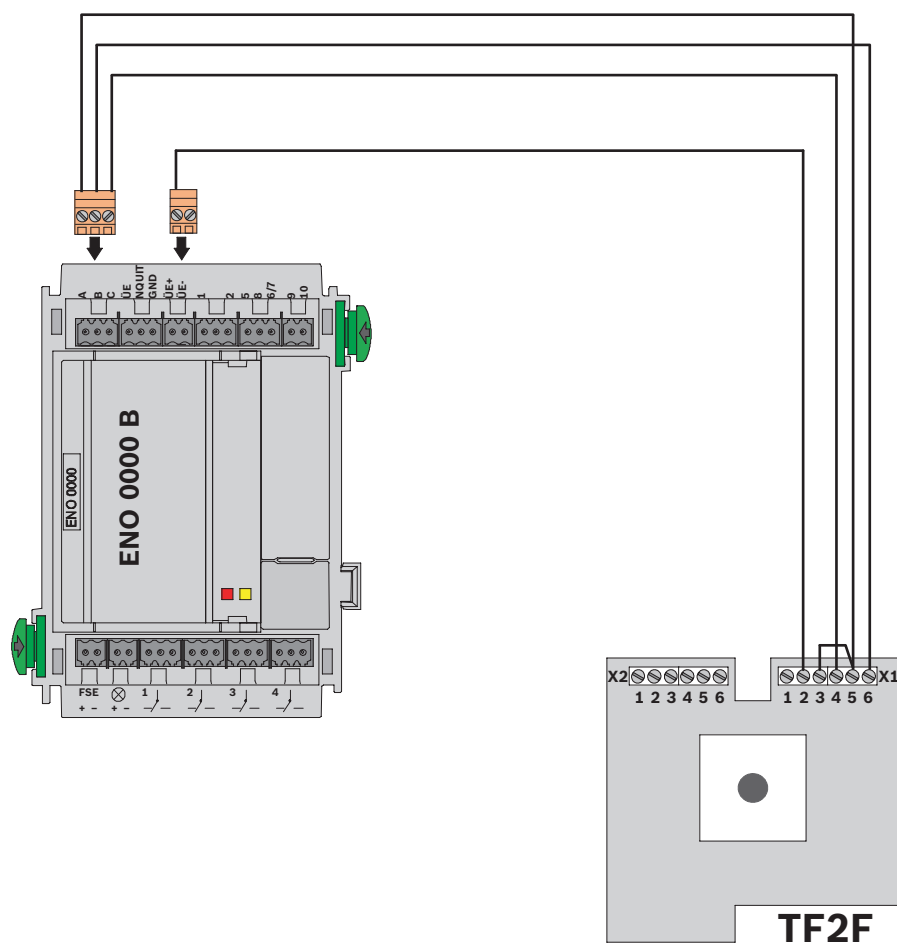
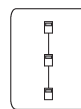


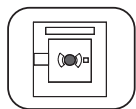
TF2F



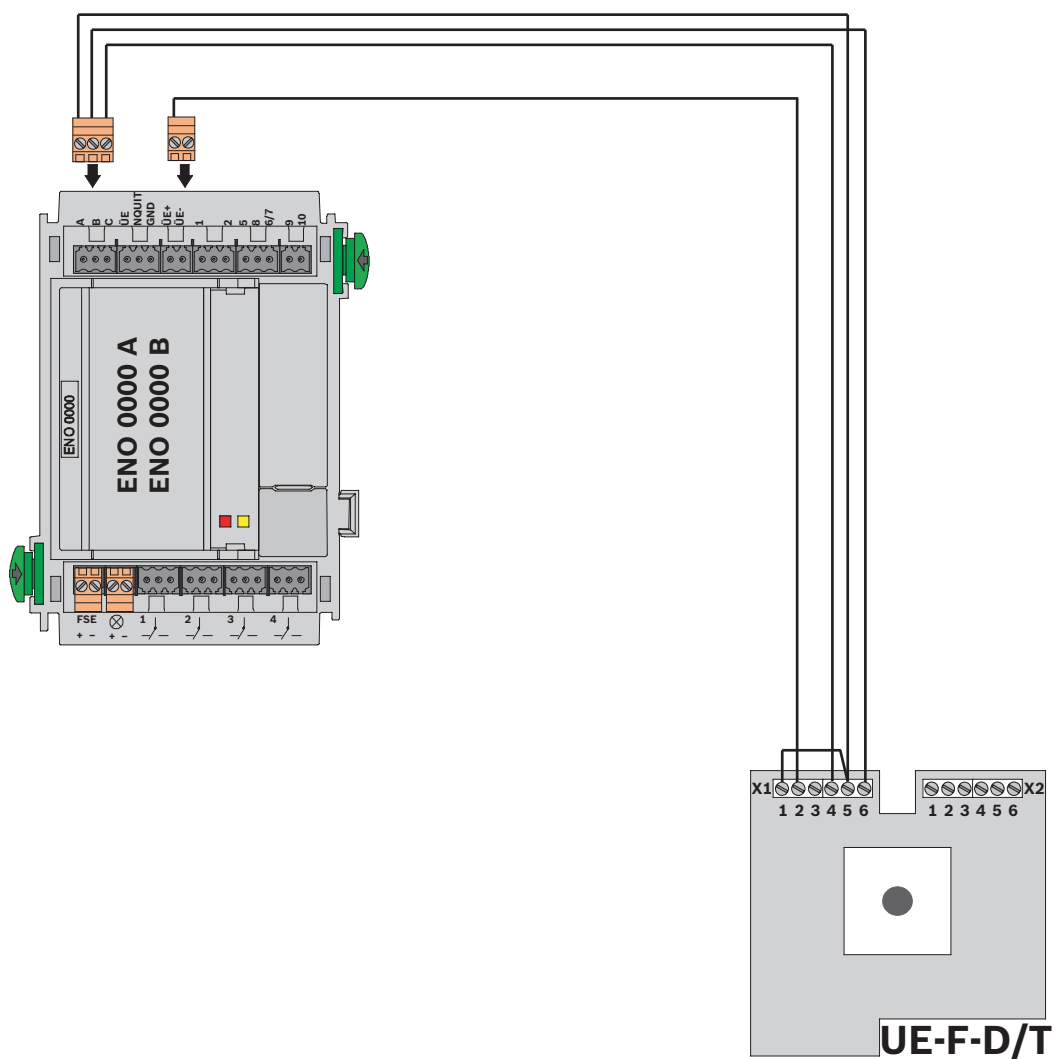


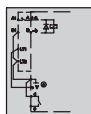
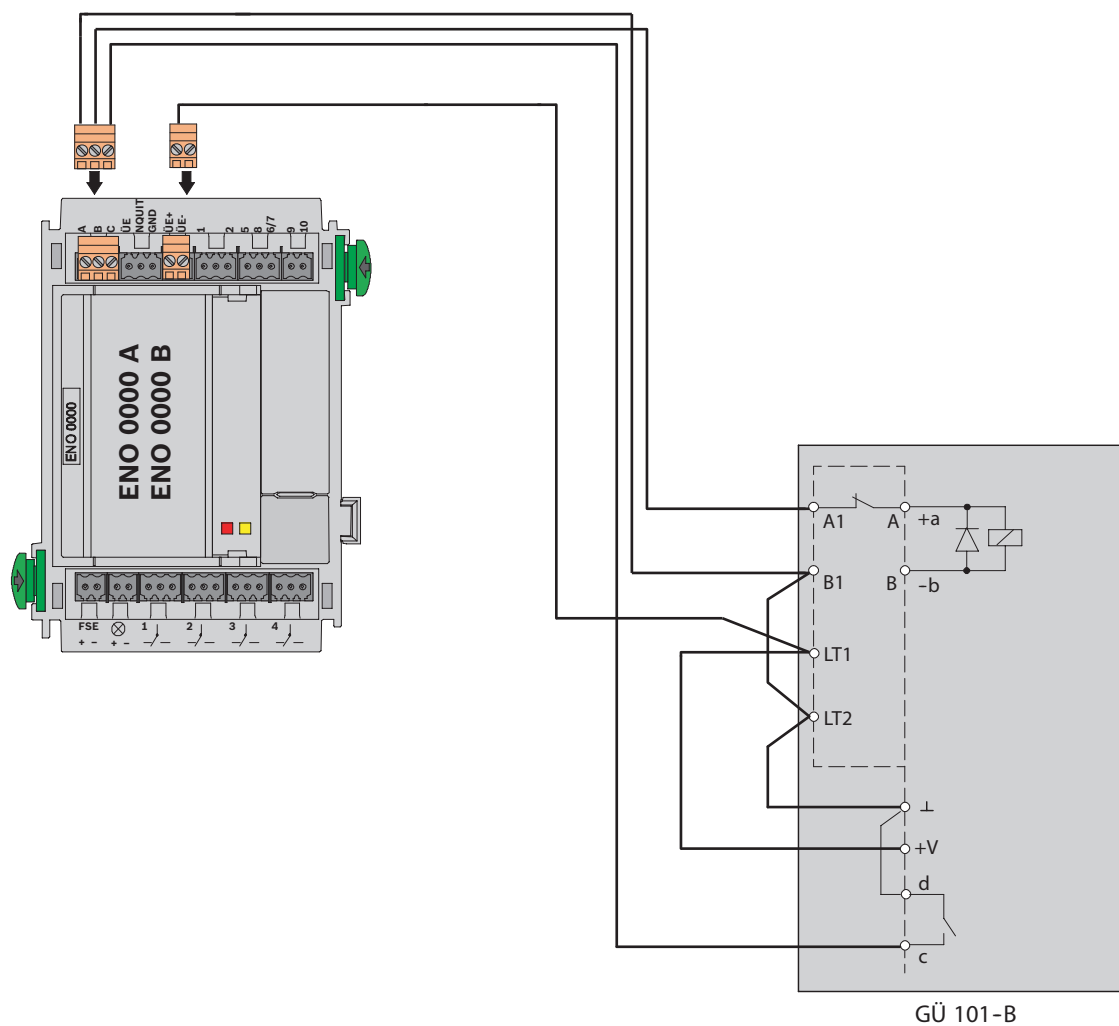
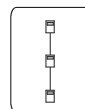
TF2F

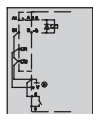
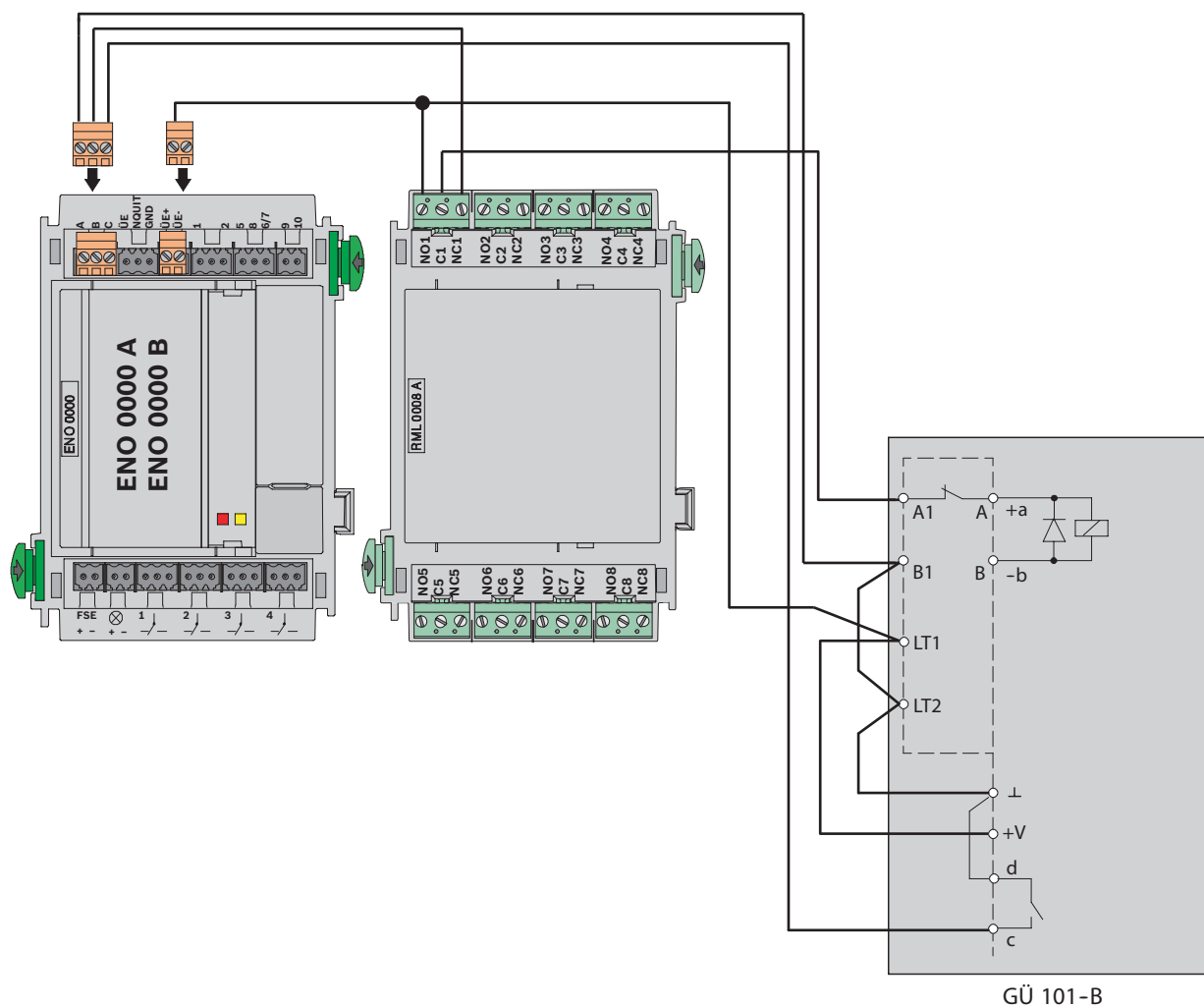
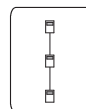




UE-F-D/T

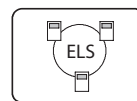
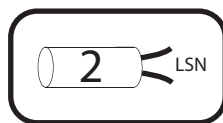


**GÜ 101-B**

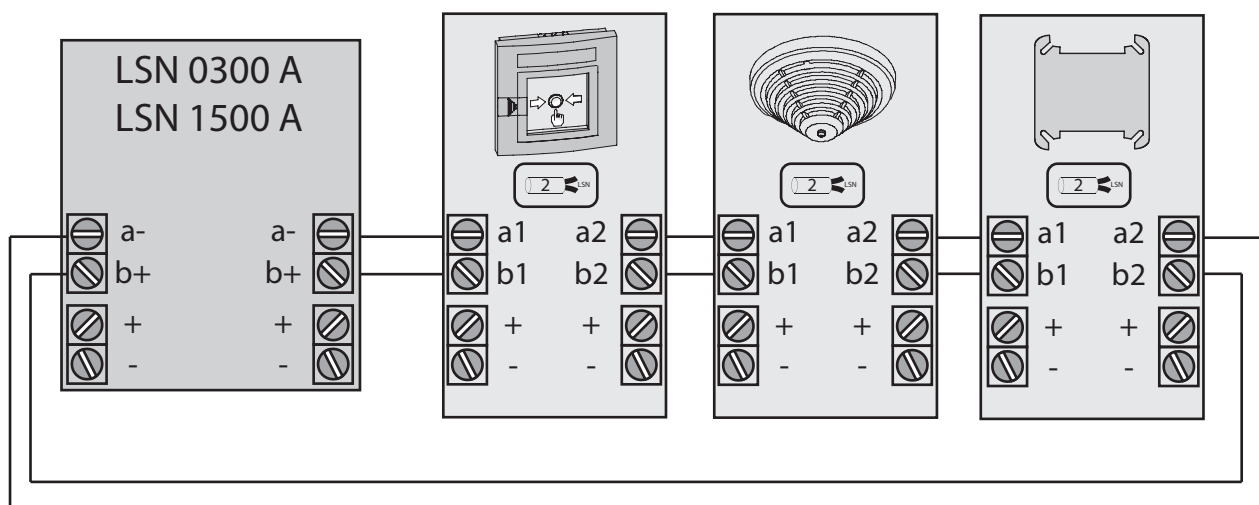
**GÜ 101-B**

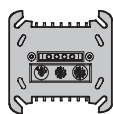
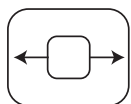
3.3.4

LSN 0300 A

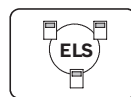


VdS 2489

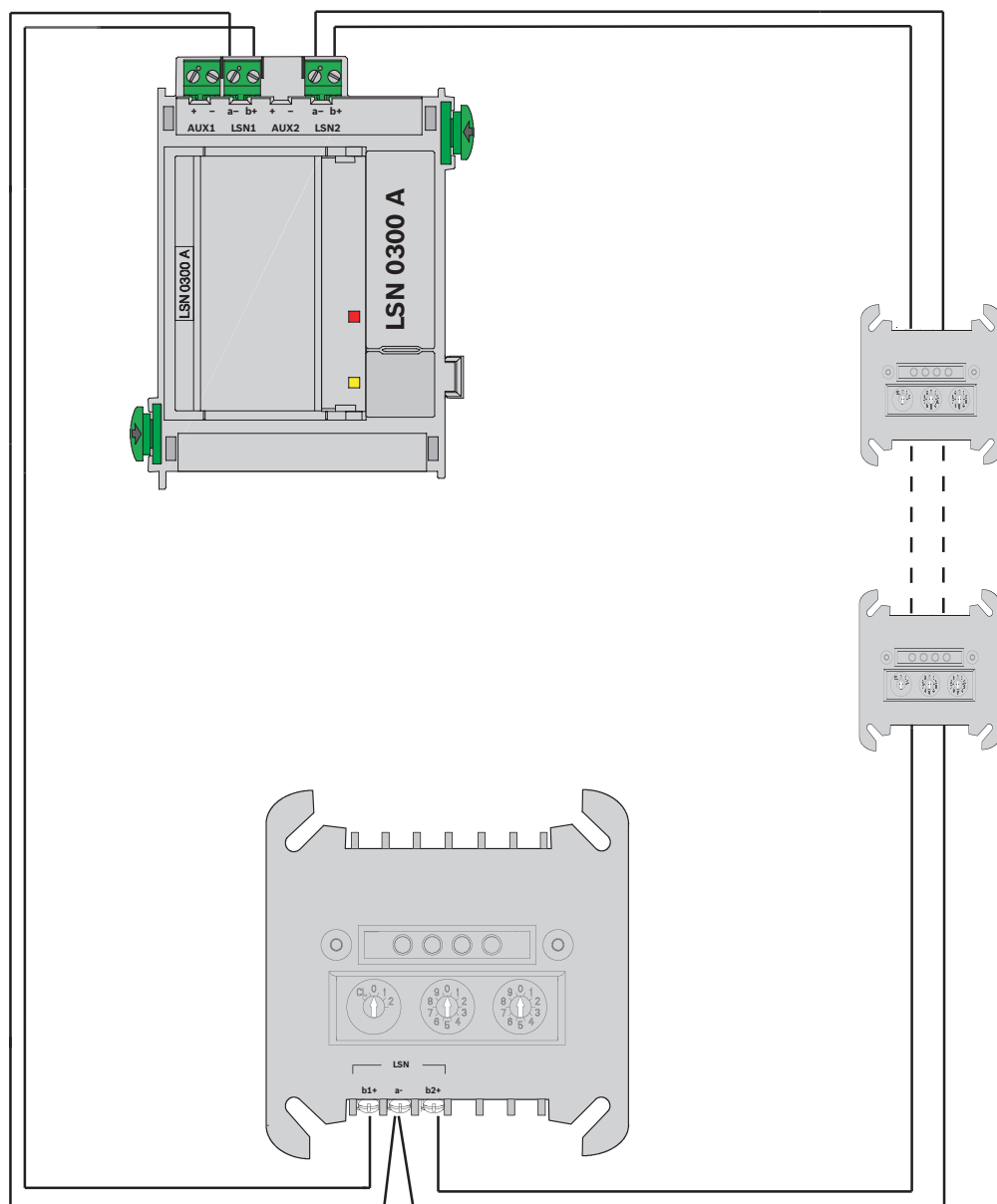


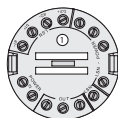
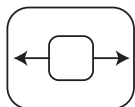


FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

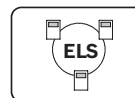


VdS 2489

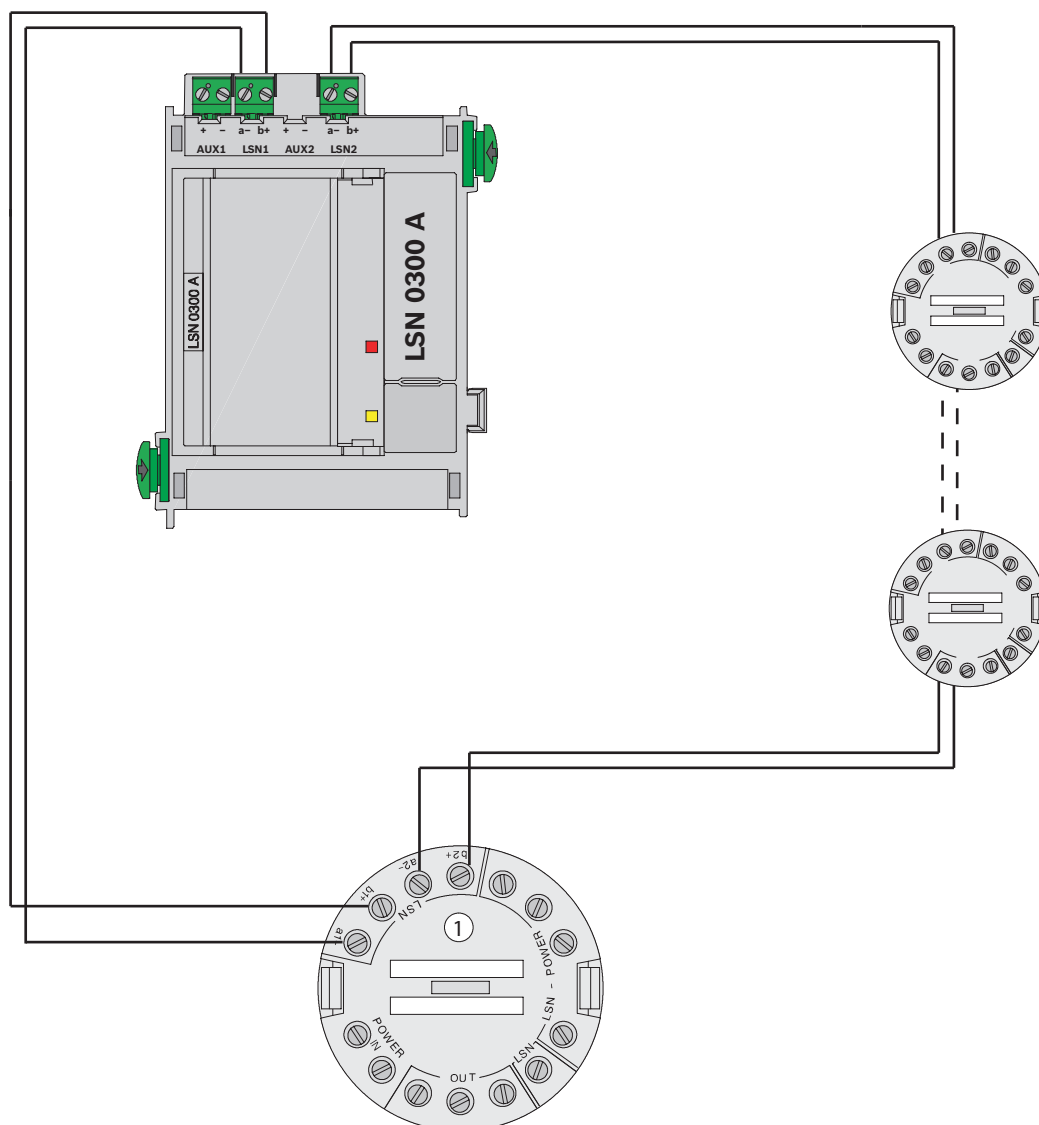


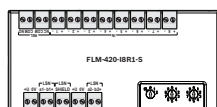
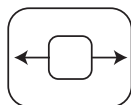
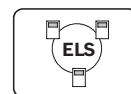
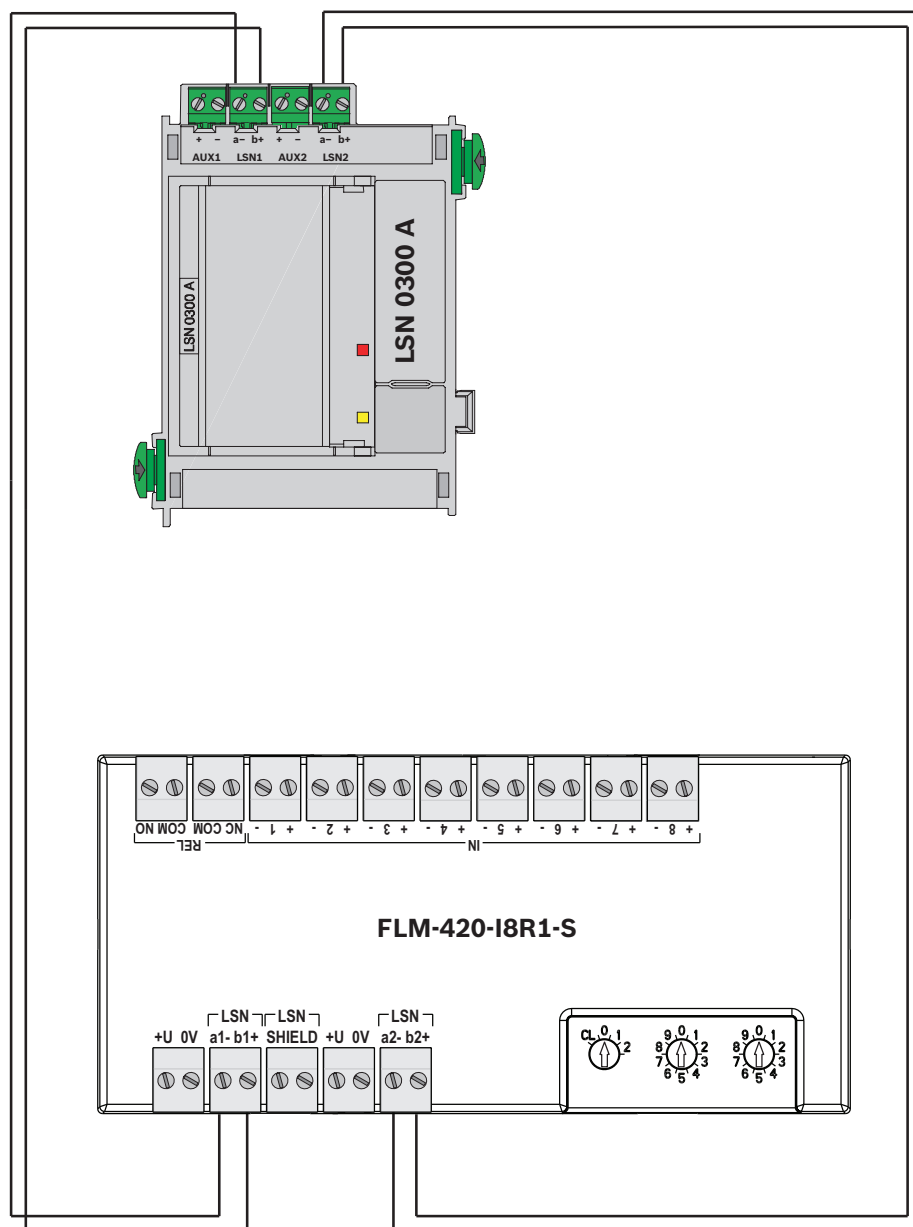


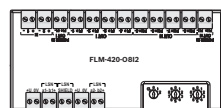
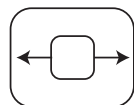
FLM-420-I2-E/W
FLM-420-RLV1-E



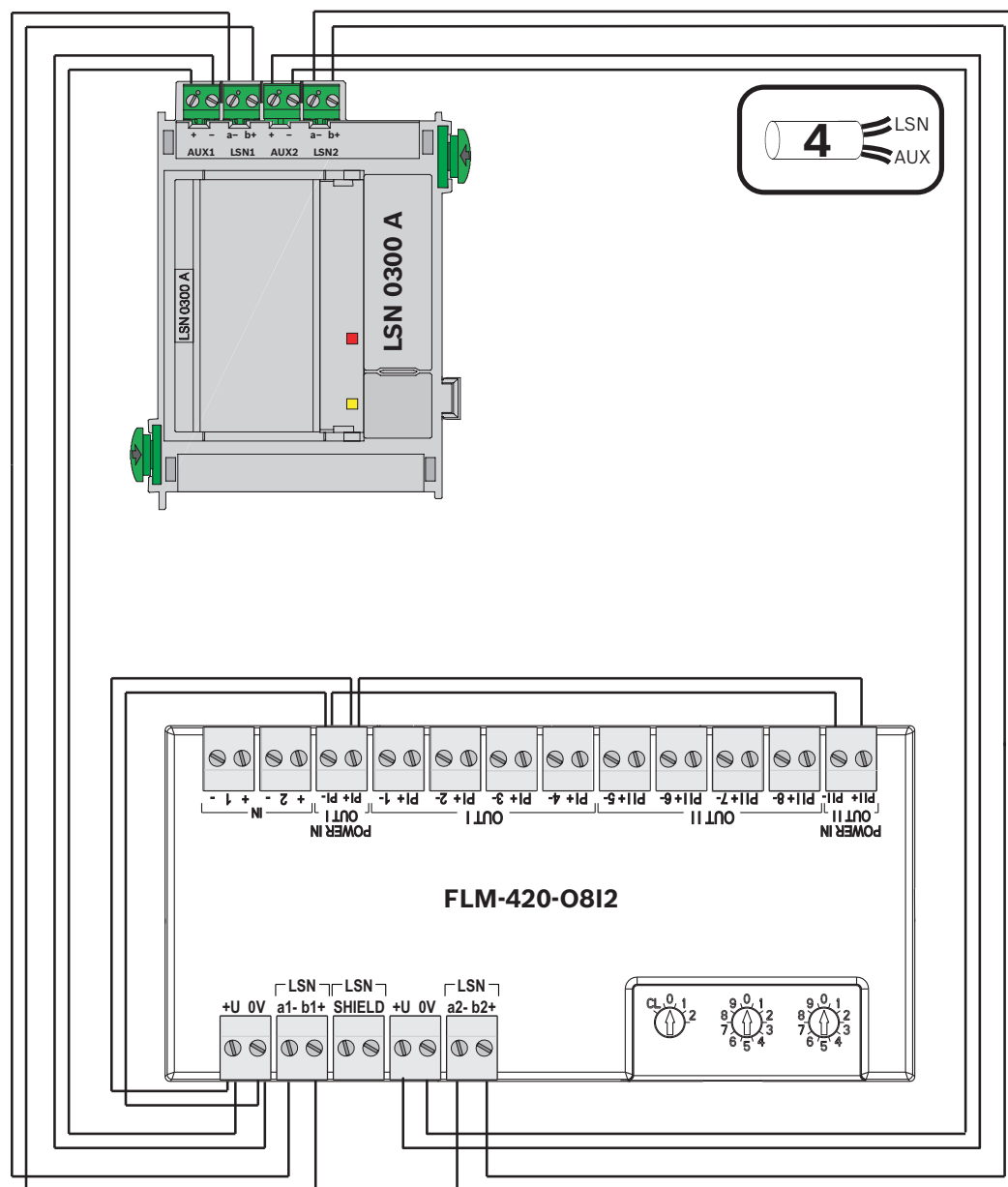
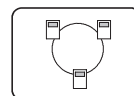
VdS 2489

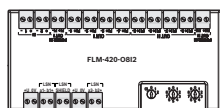
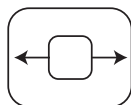
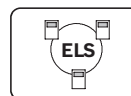
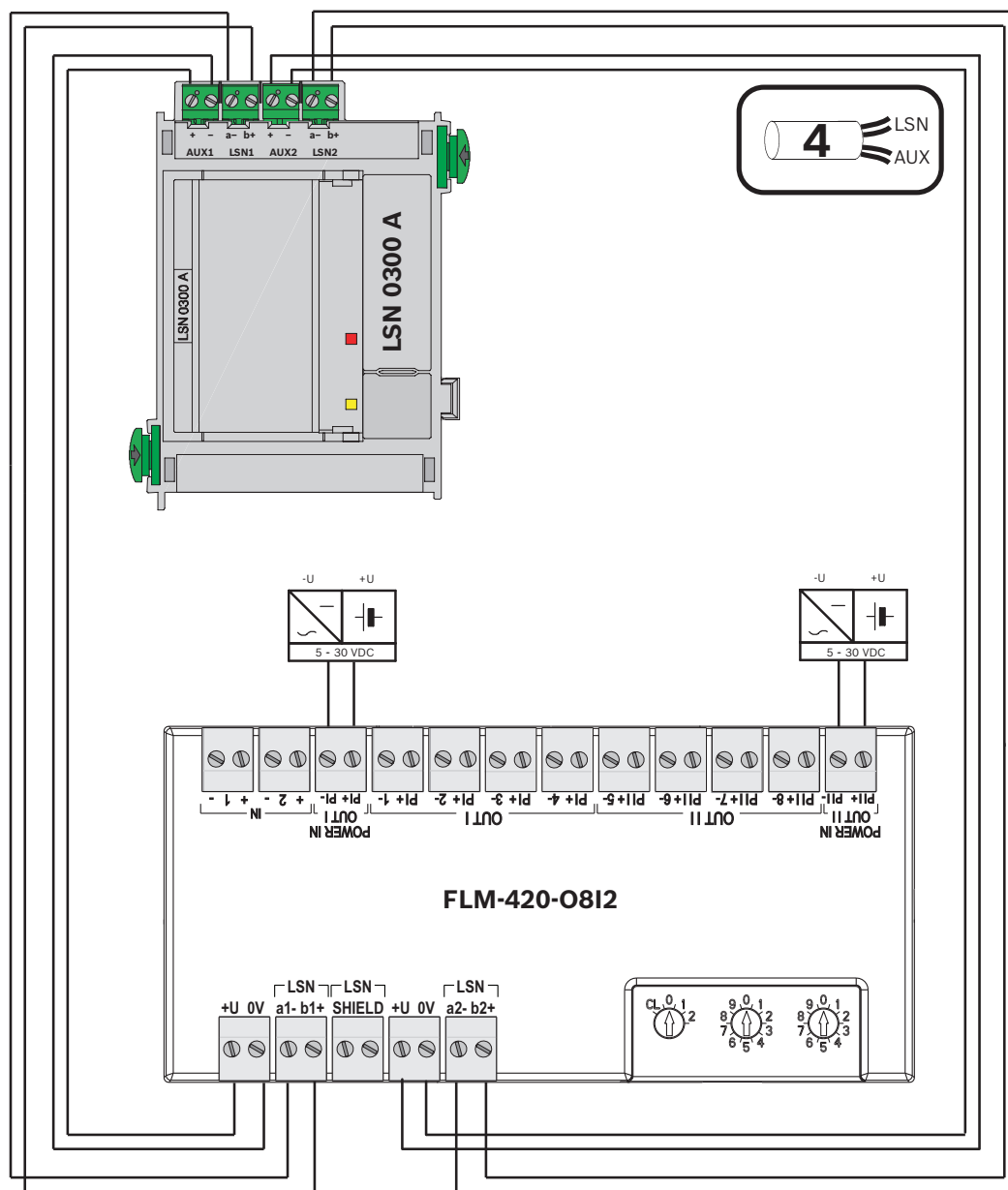


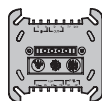
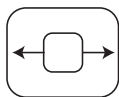
**FLM-420-I8R1-S****VdS 2489**



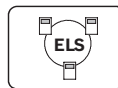
FLM-420-08I2-S



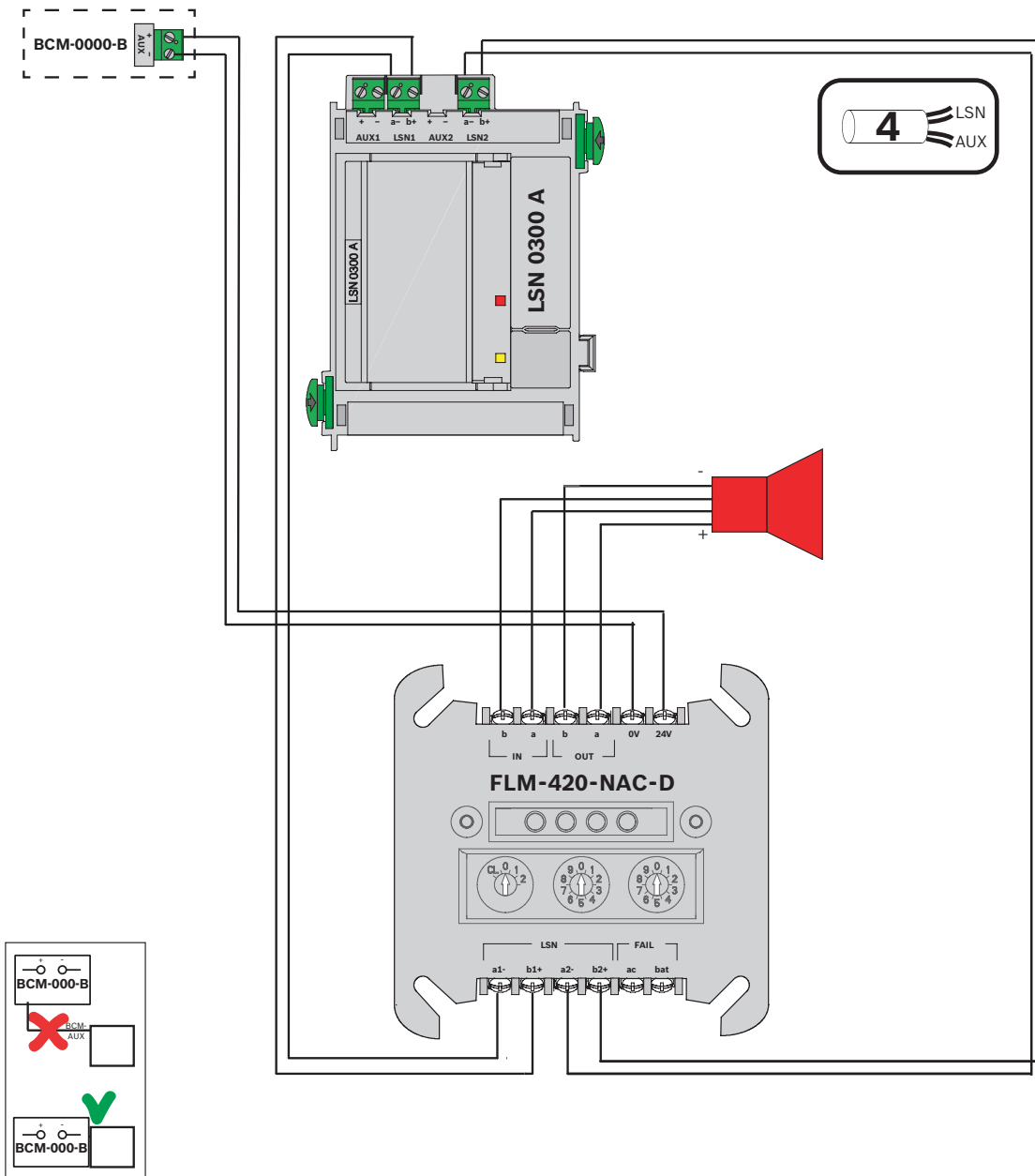
**FLM-420-0812-S****VdS 2489**

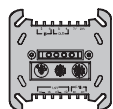
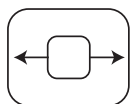
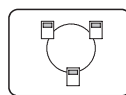
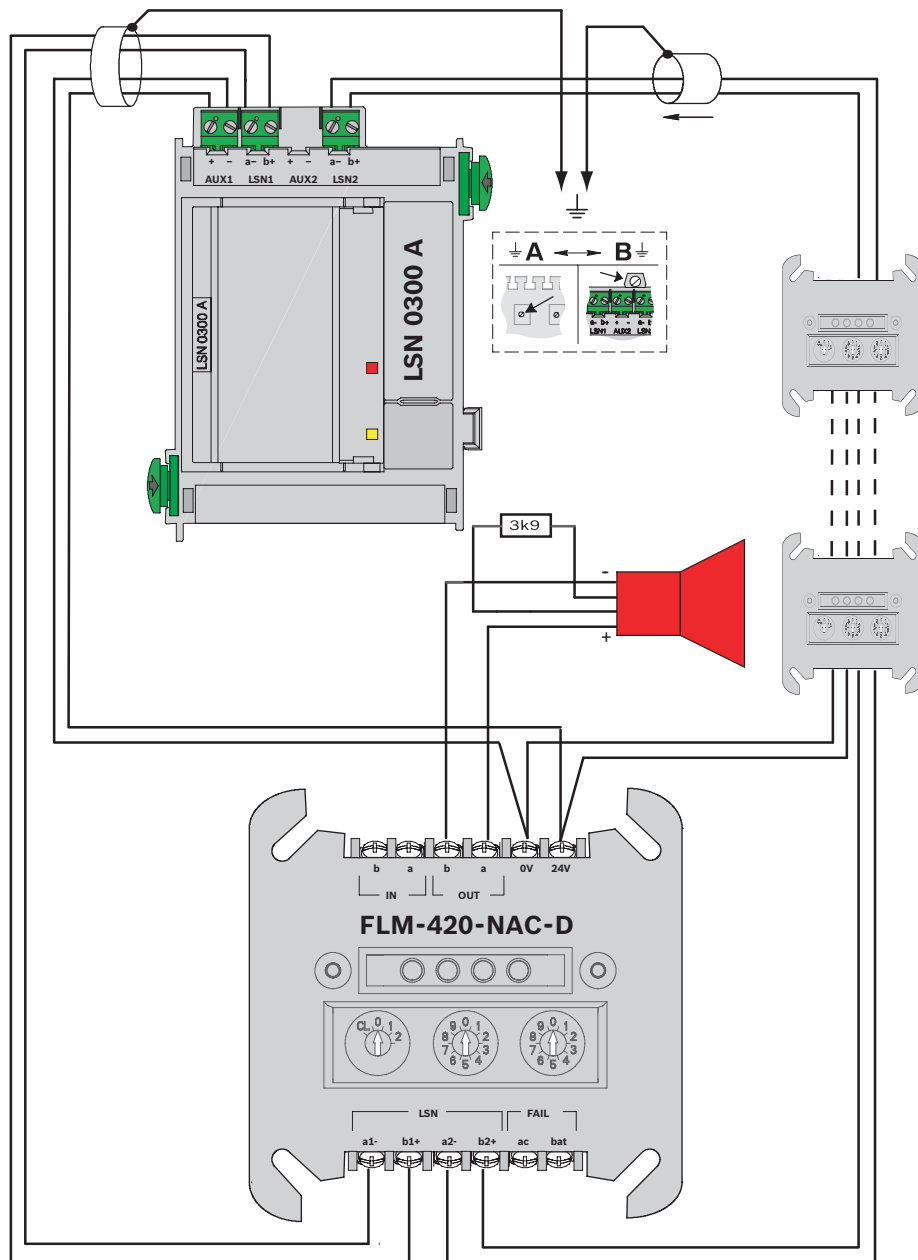


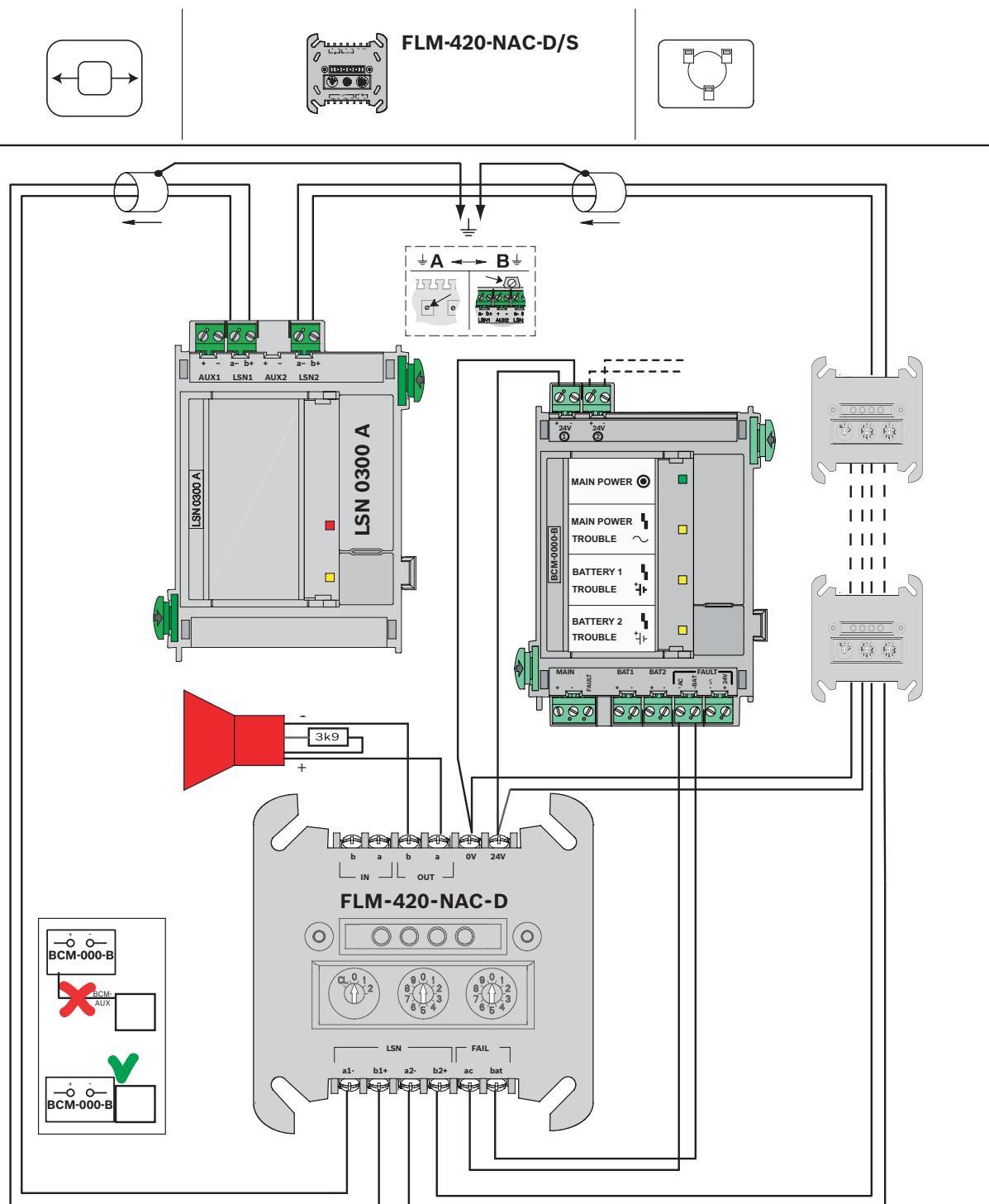
FLM-420-NAC-D/S

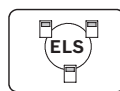
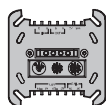
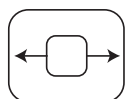


VdS 2489

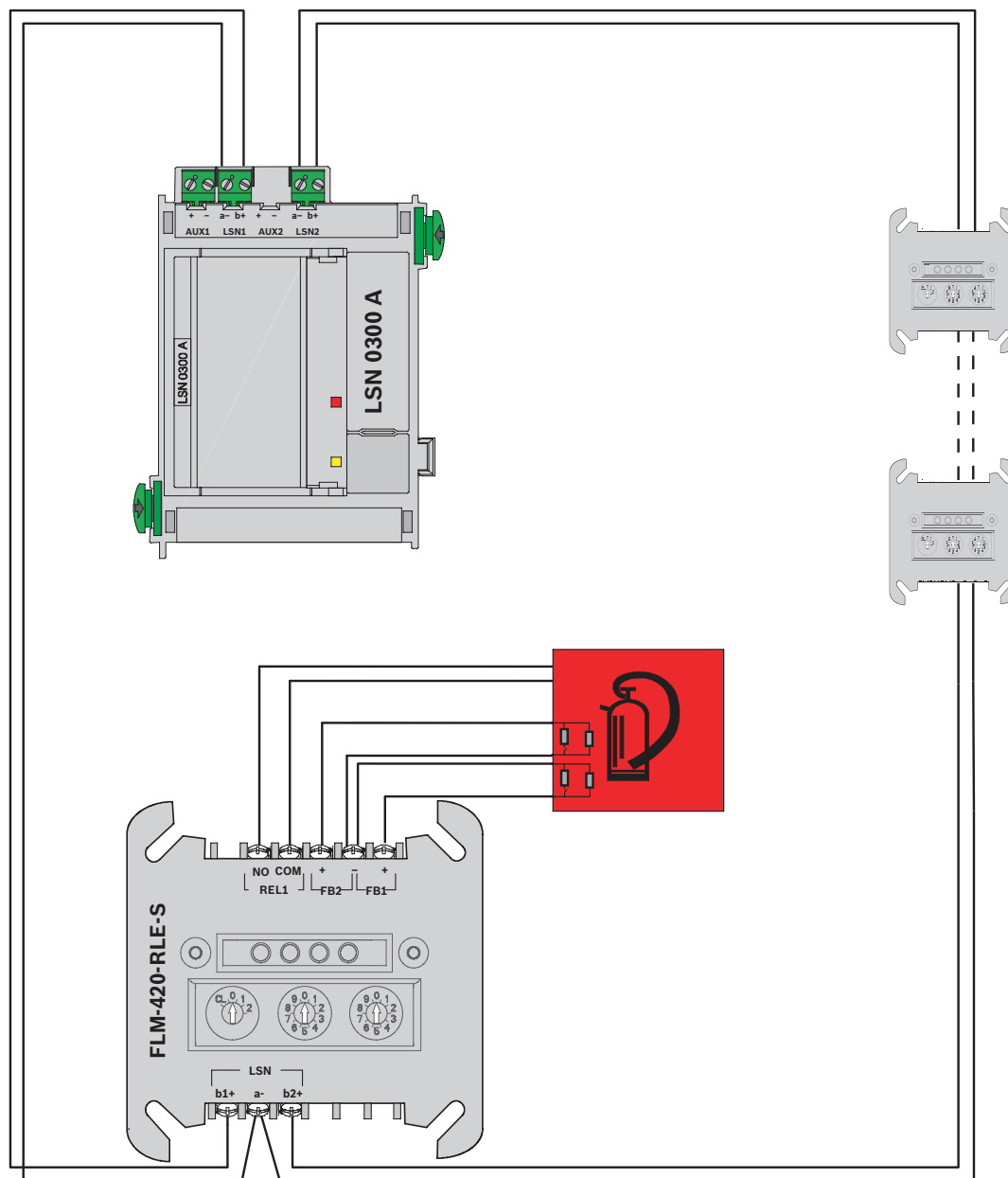


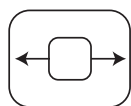
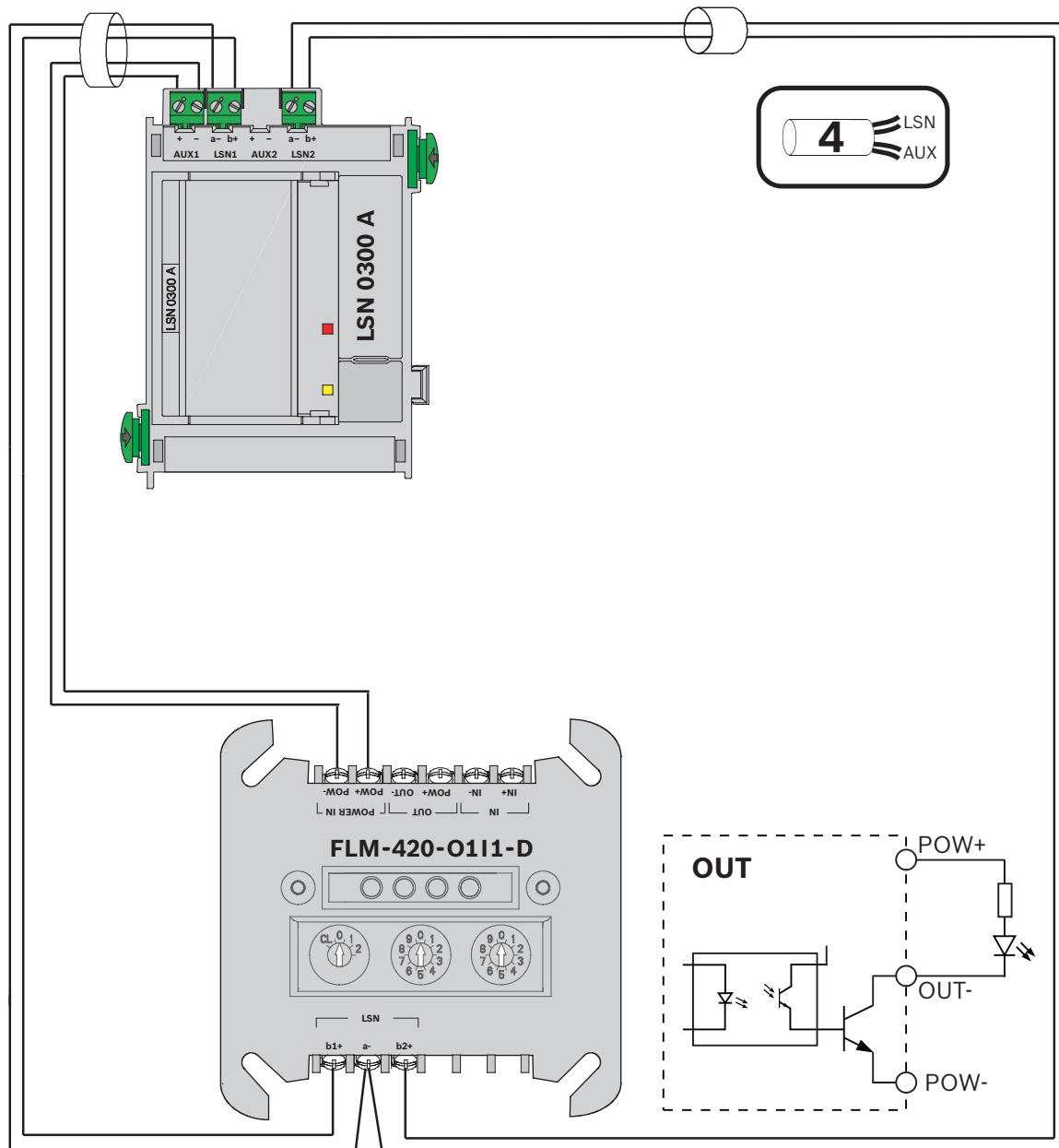
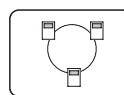
**FLM-420-NAC-D/S****EN 54-2**

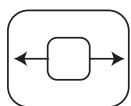




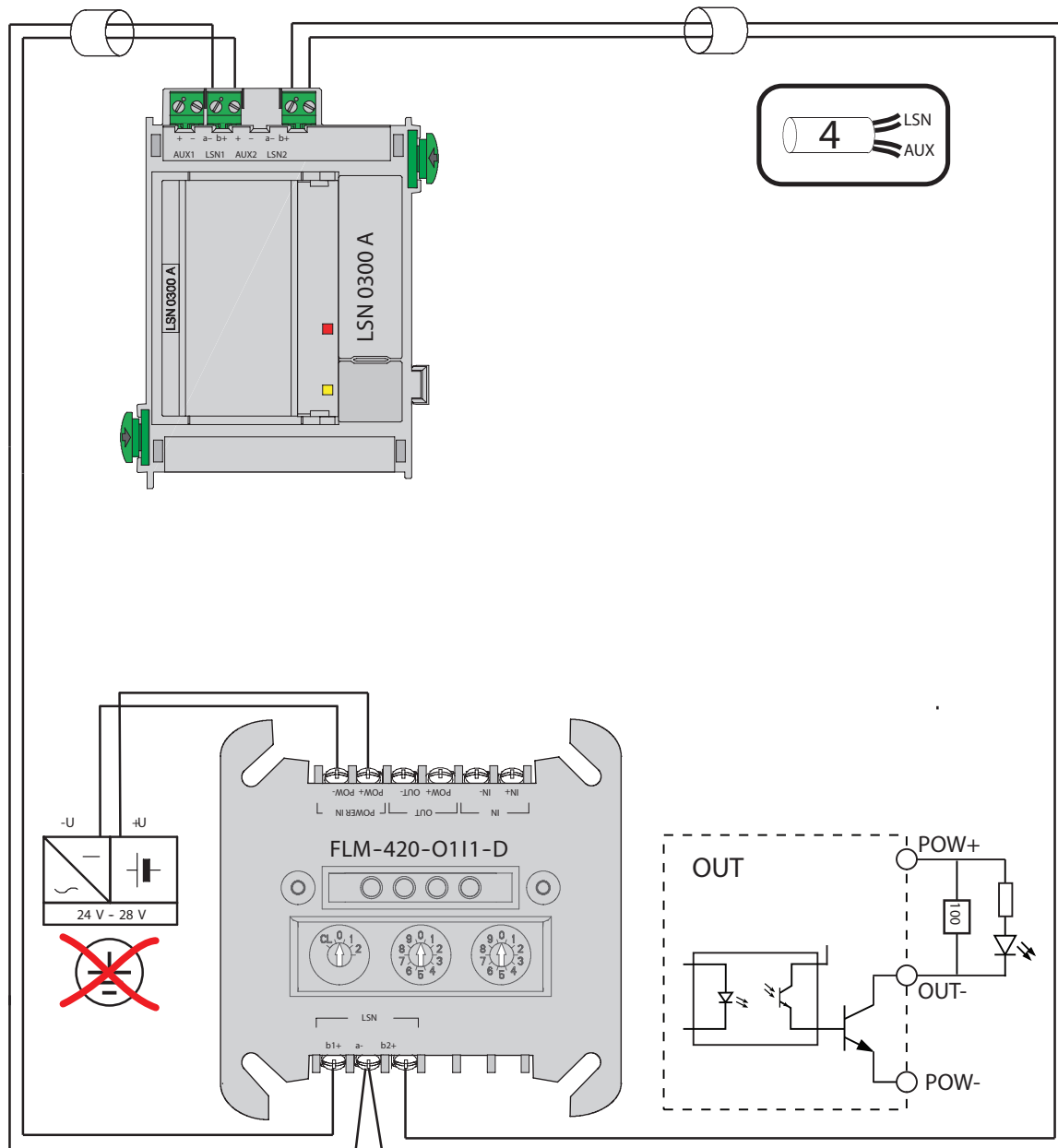
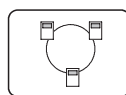
VdS 2489

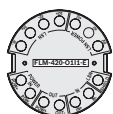
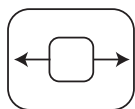


**FLM-420-O1I1-D**

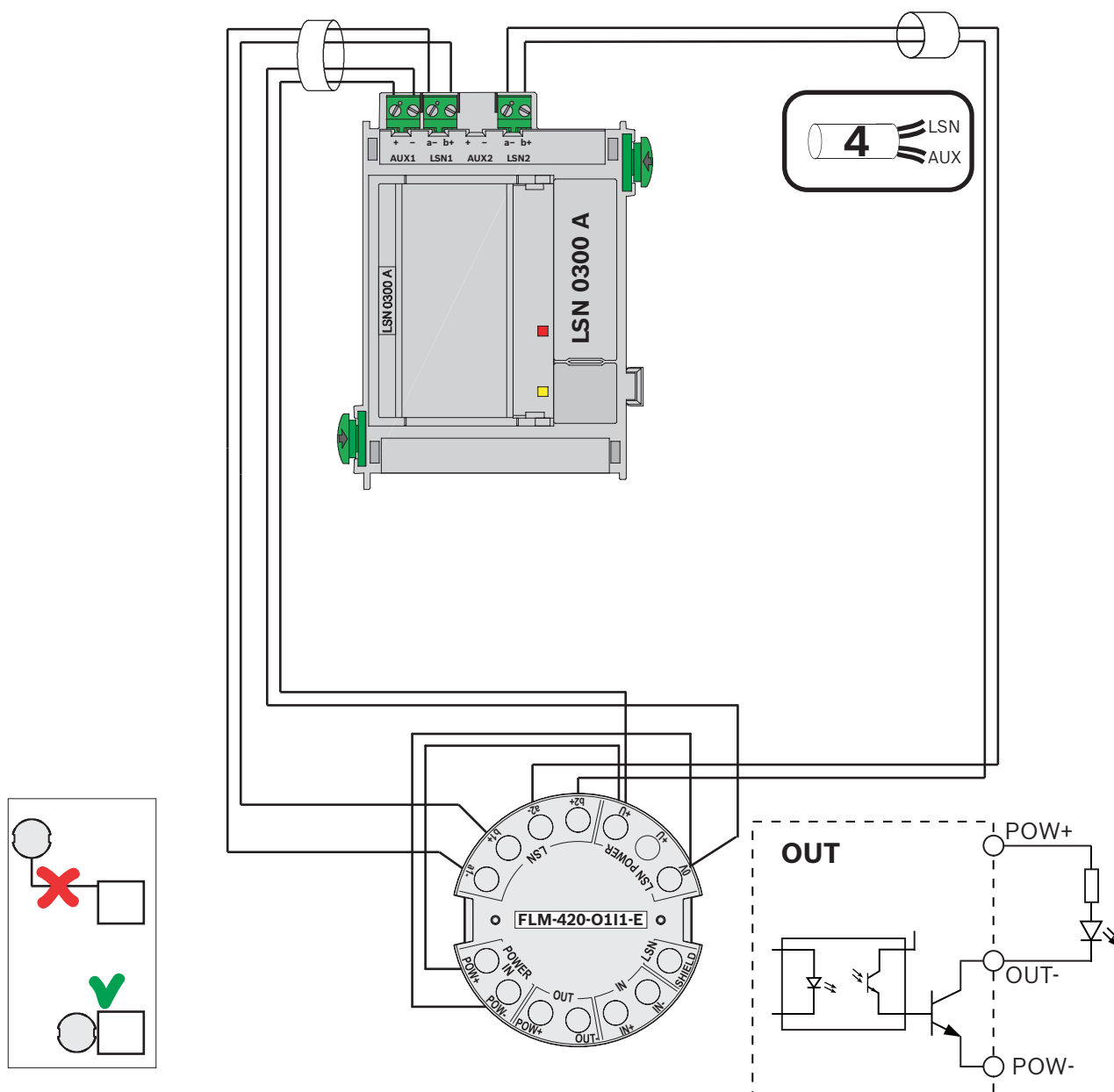
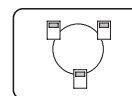


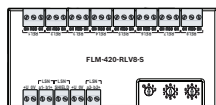
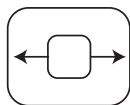
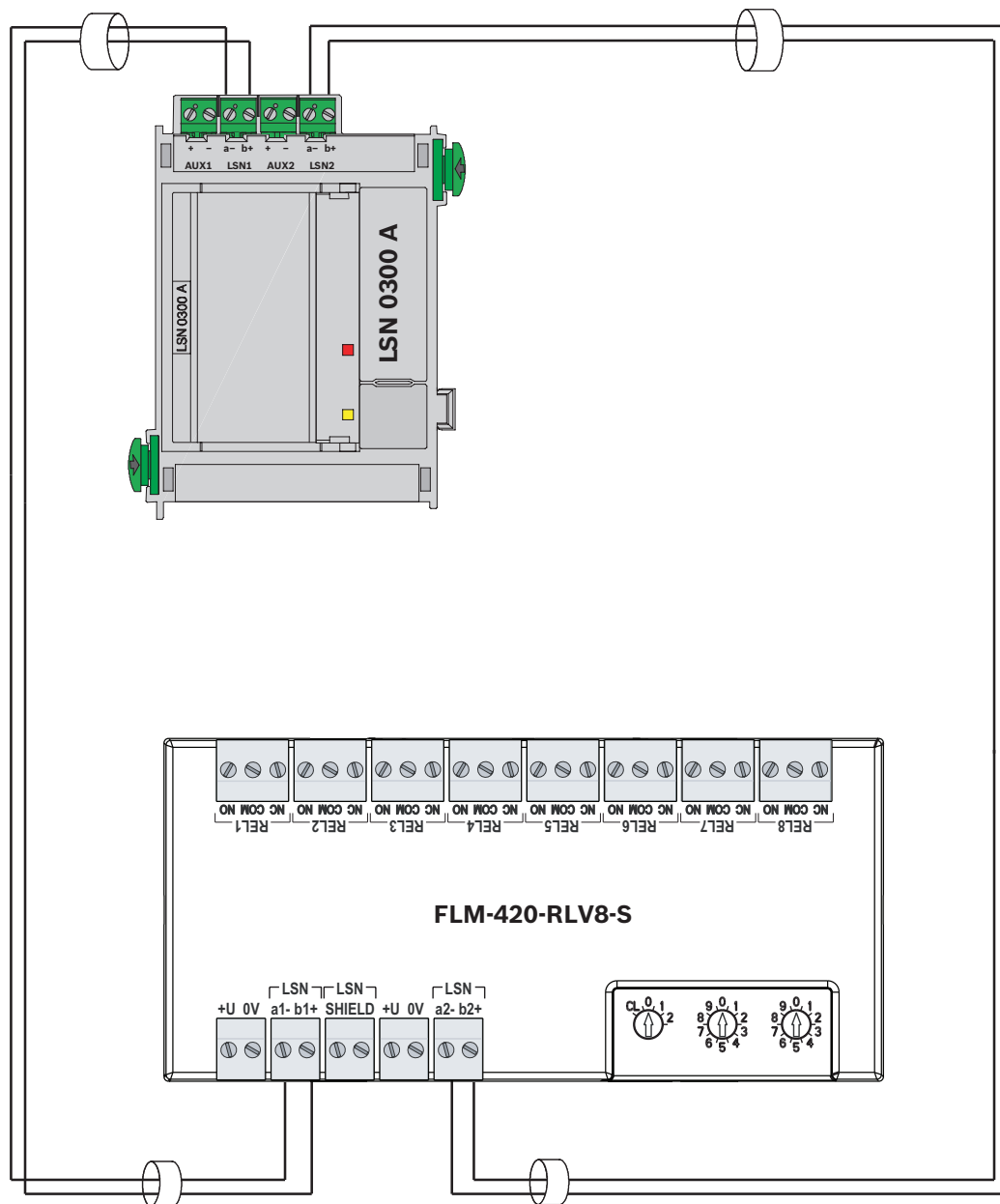
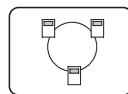
FLM-420-O111-D

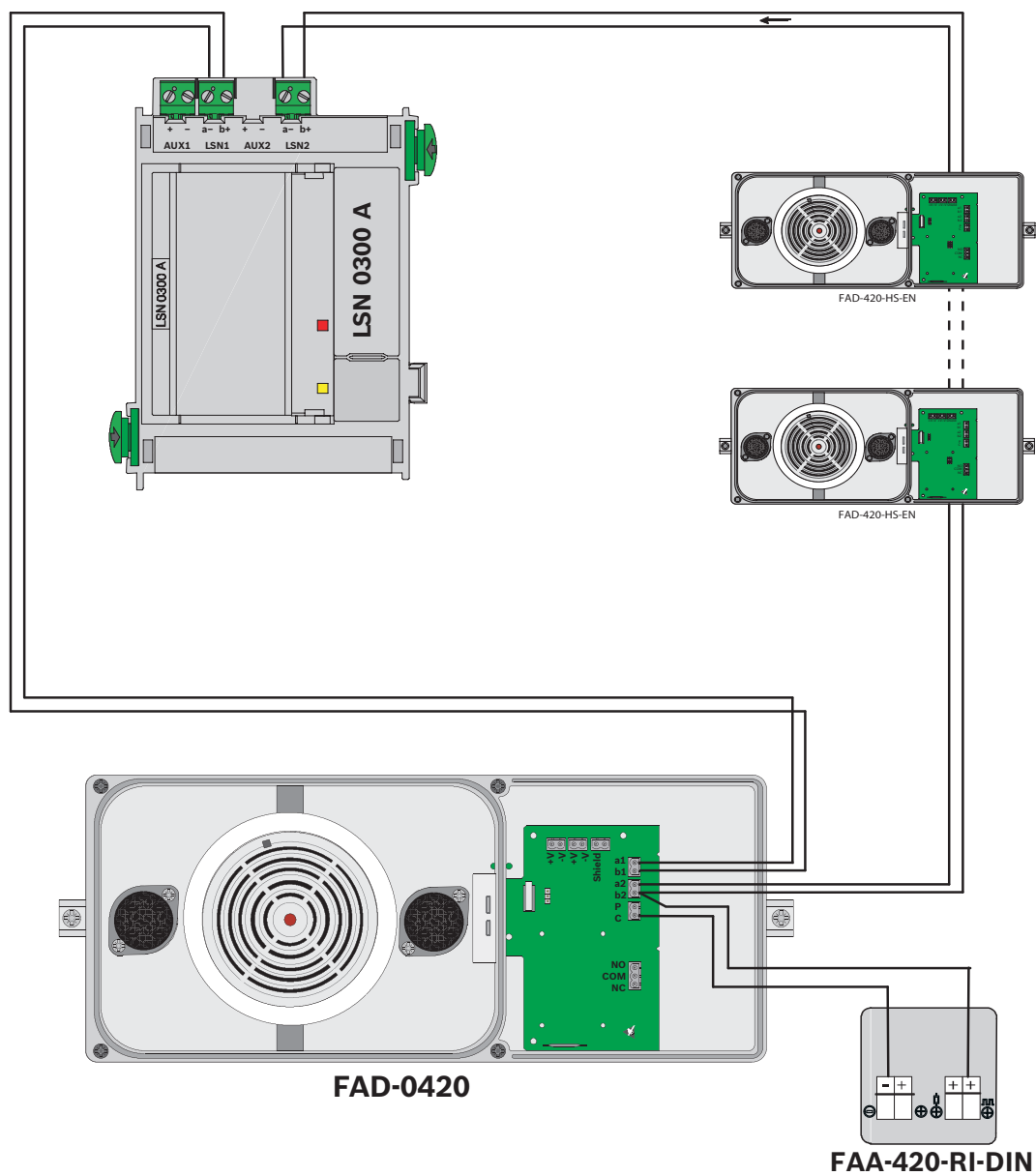


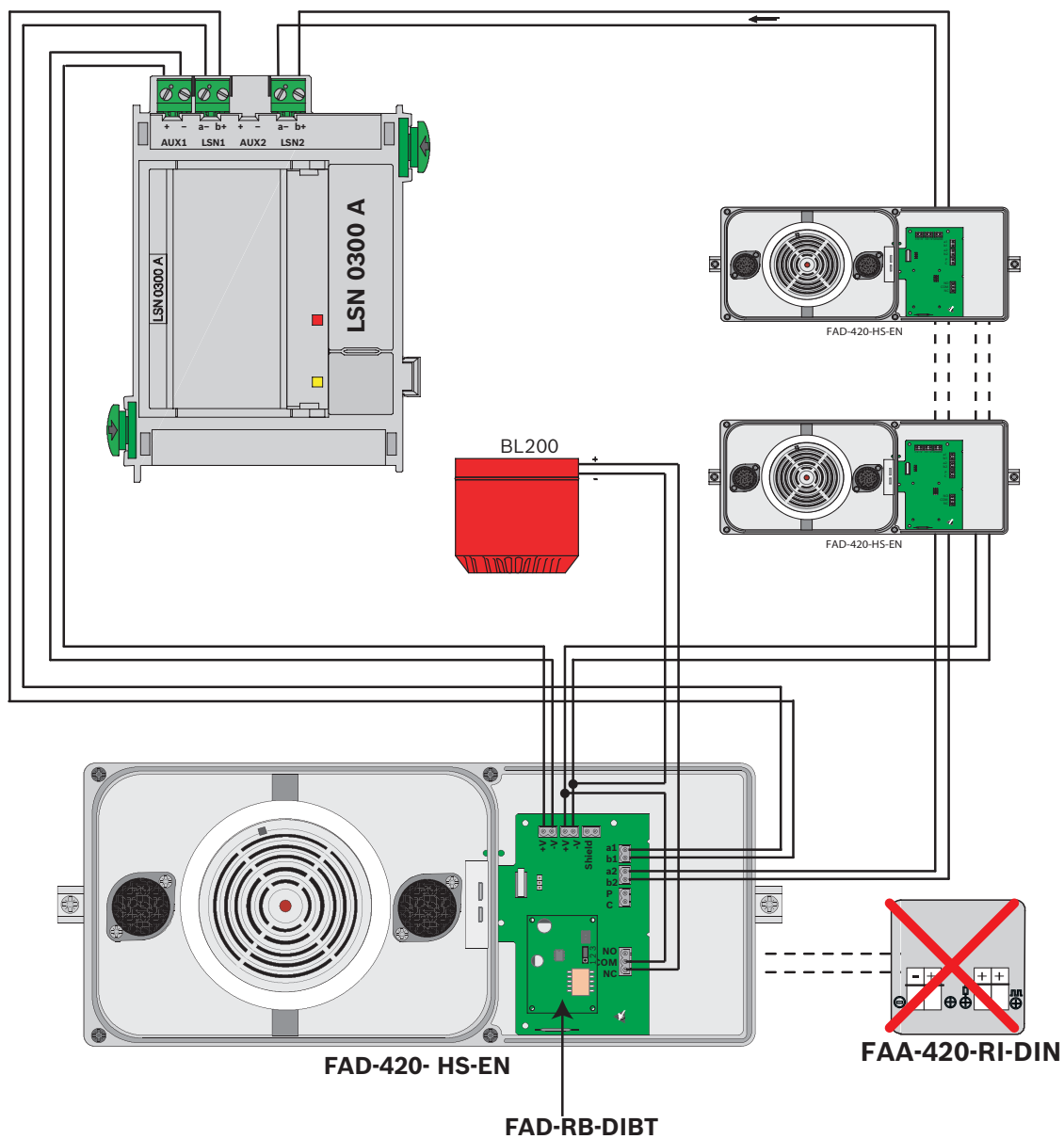


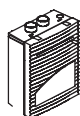
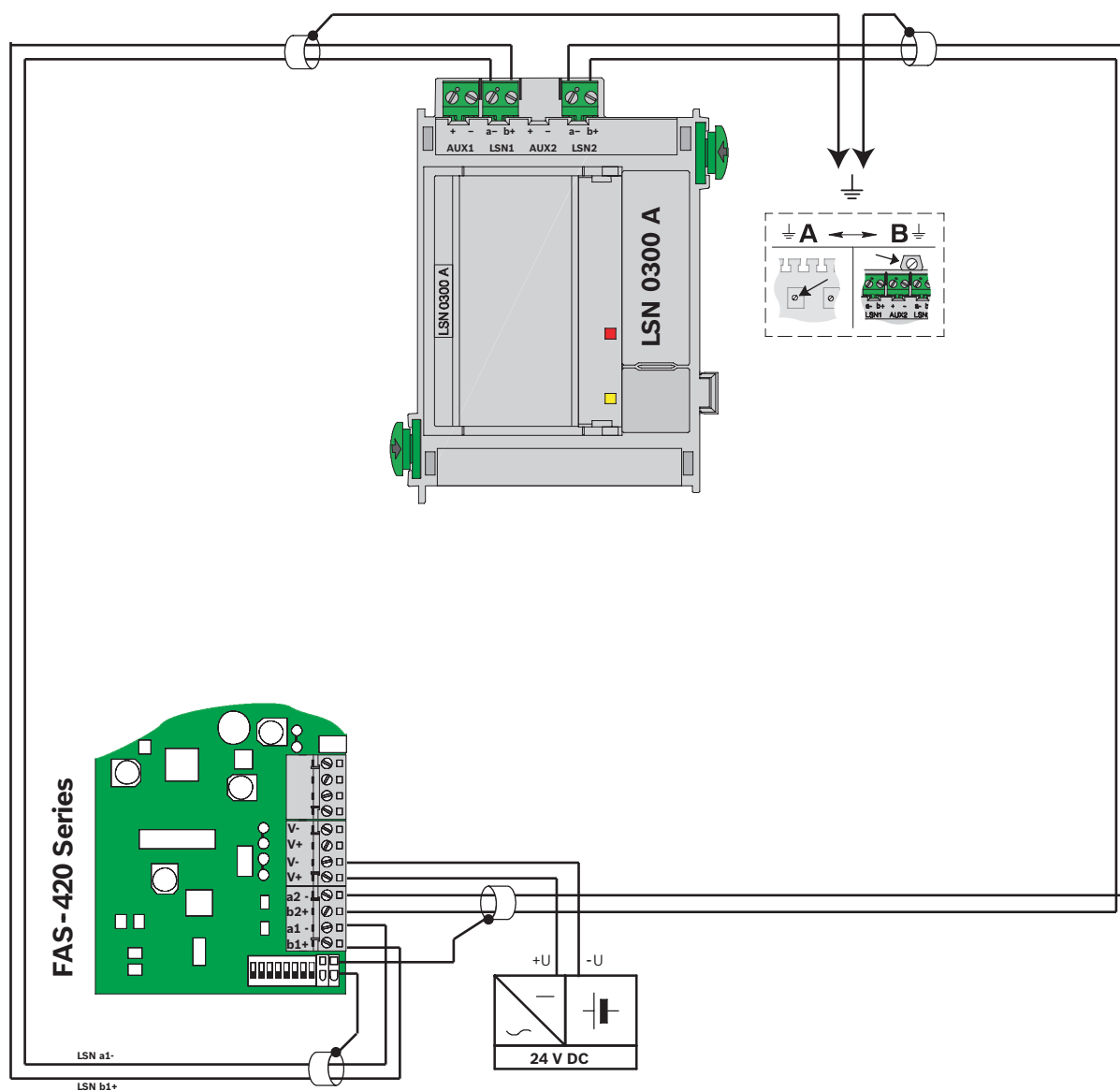
FLM-420-O1I1-E

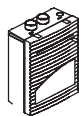


**FLM-420-RLV8-S**

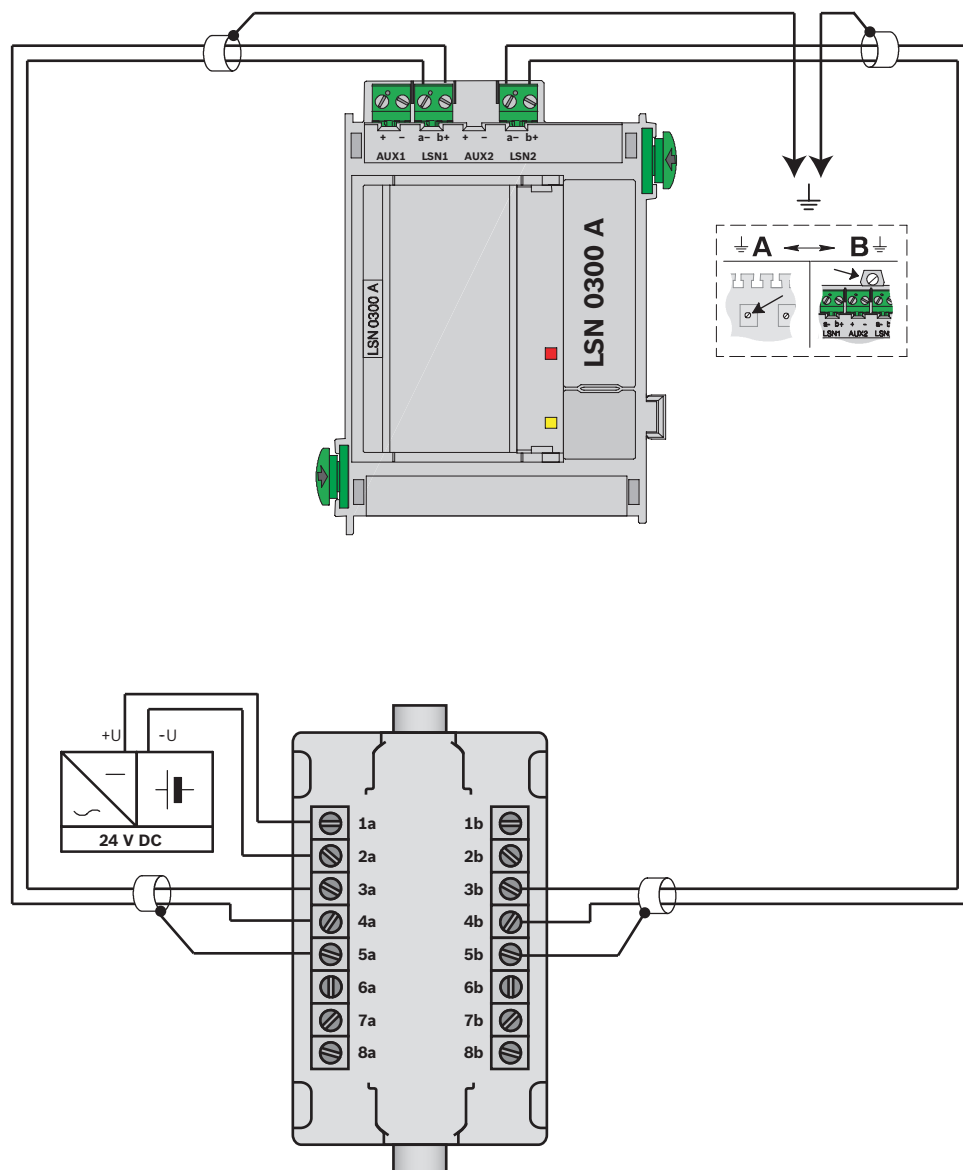
**FAD-0420**

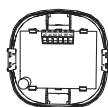
**FAD-420-HS-EN**

**FAS-420 Series**

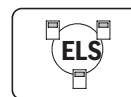


FAS-420-TM Series

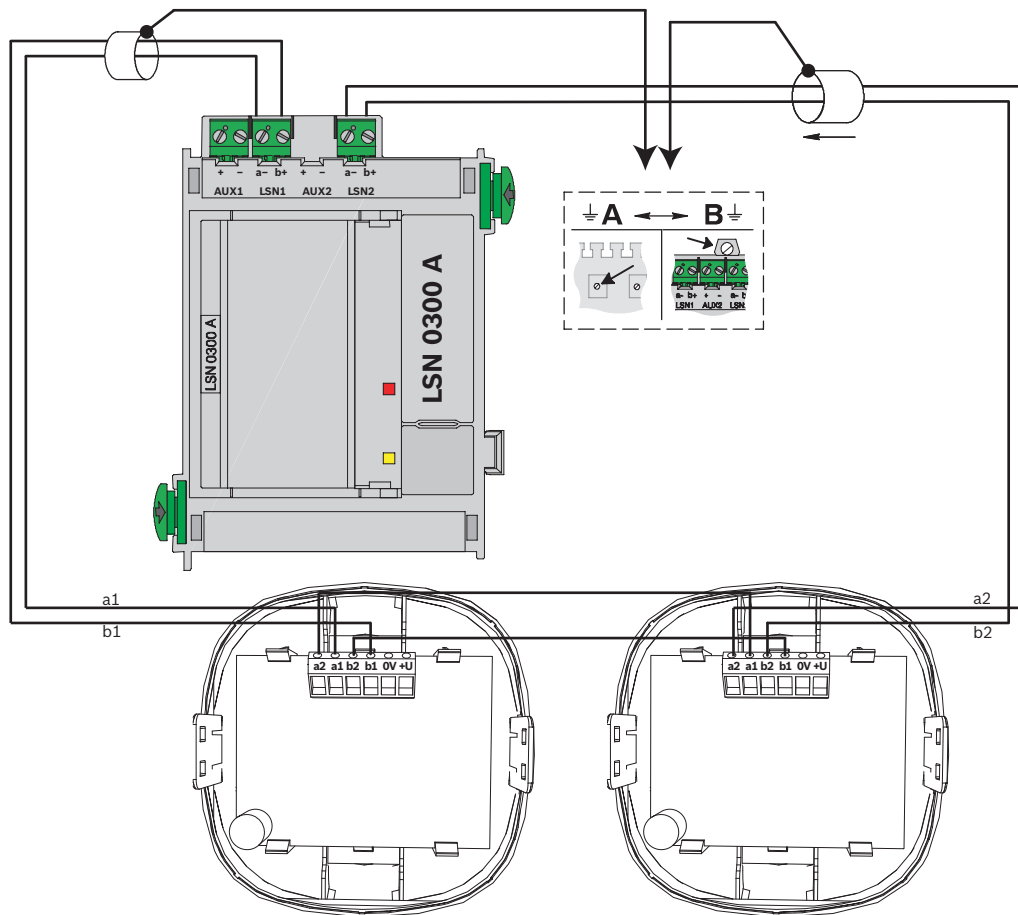




FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A



VdS 2489

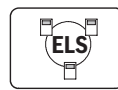


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

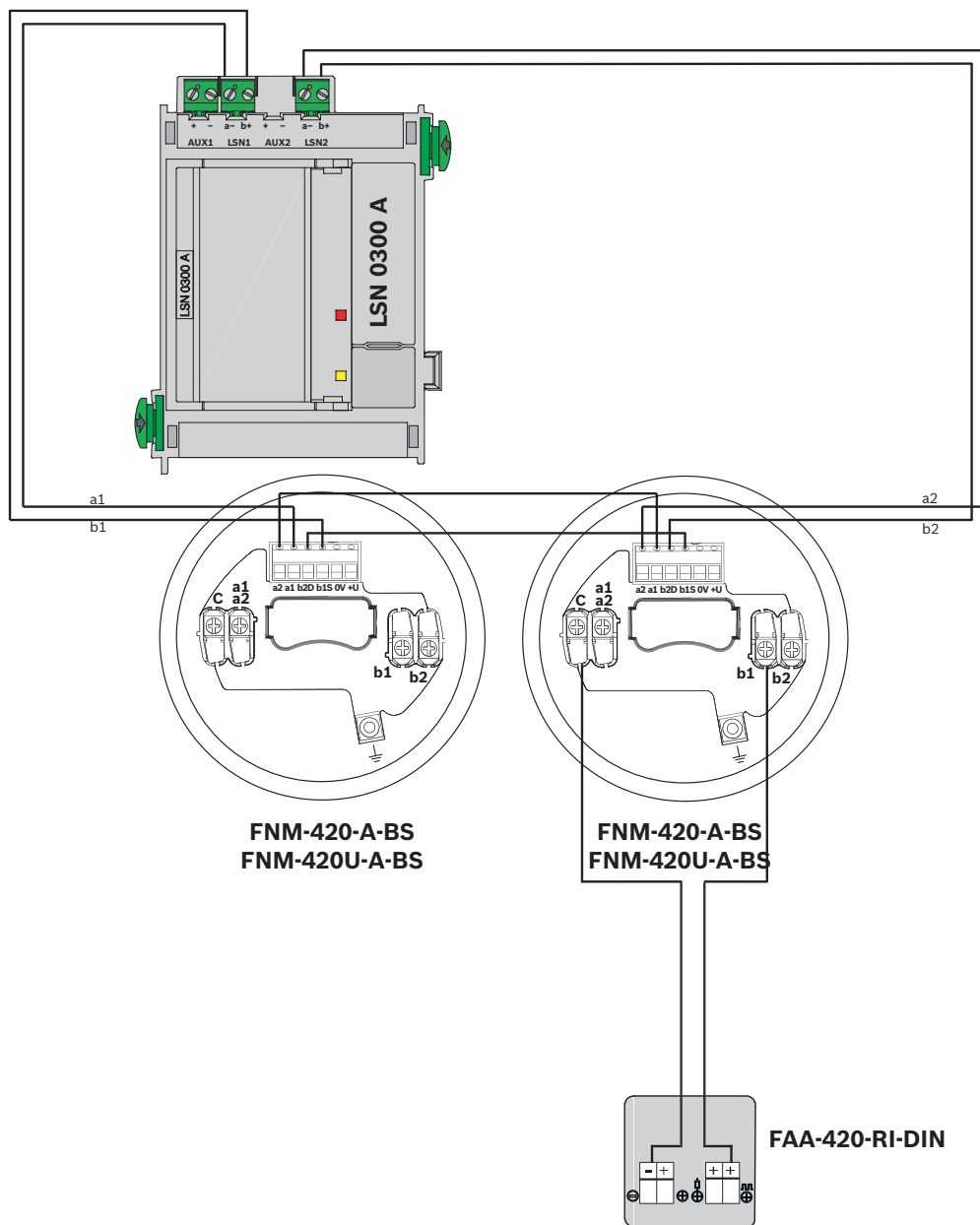
FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



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



VdS 2489

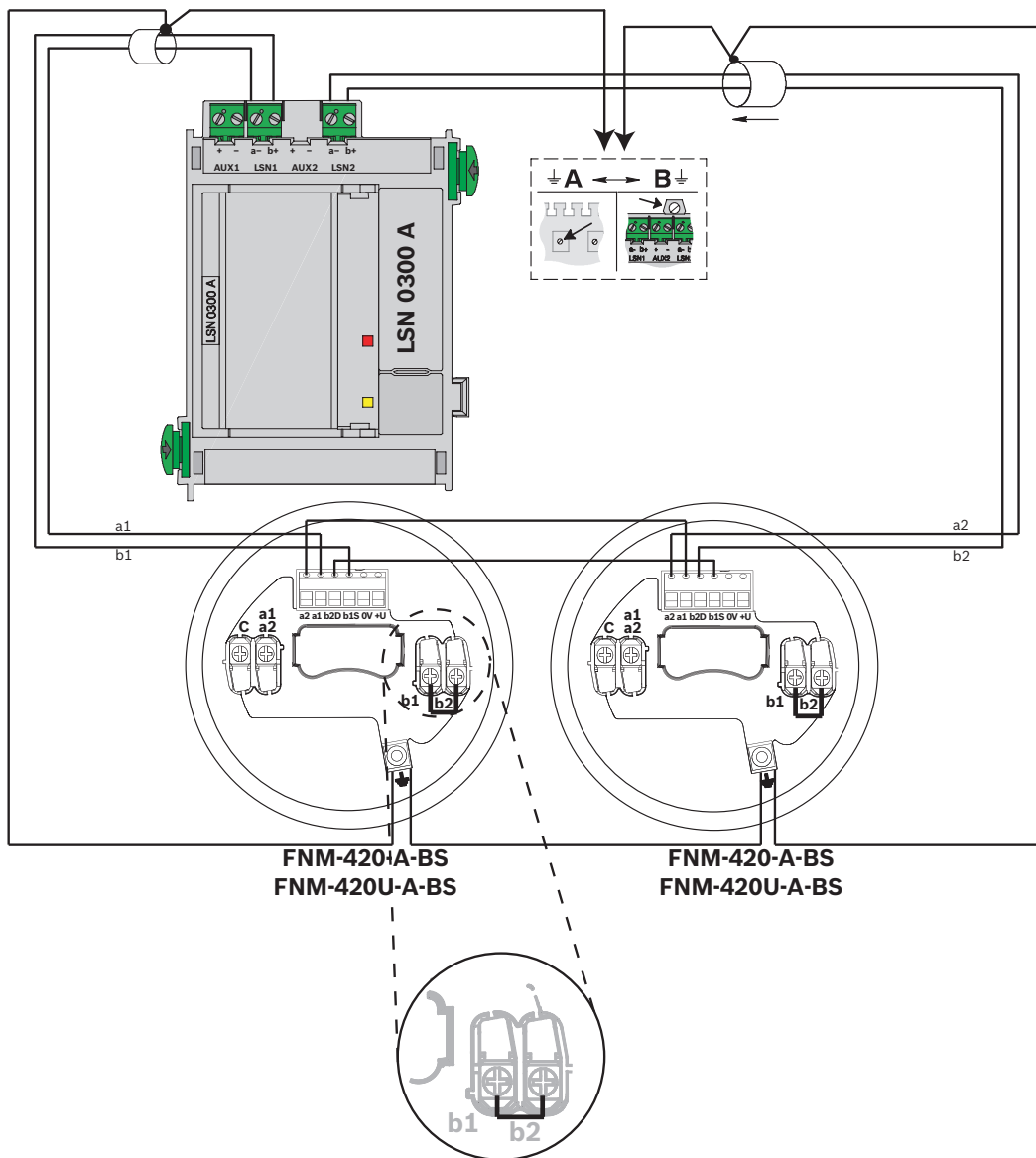


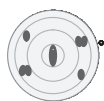


FNM-420-A-BS
FNM-420U-A-BS

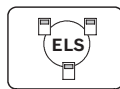


VdS 2489

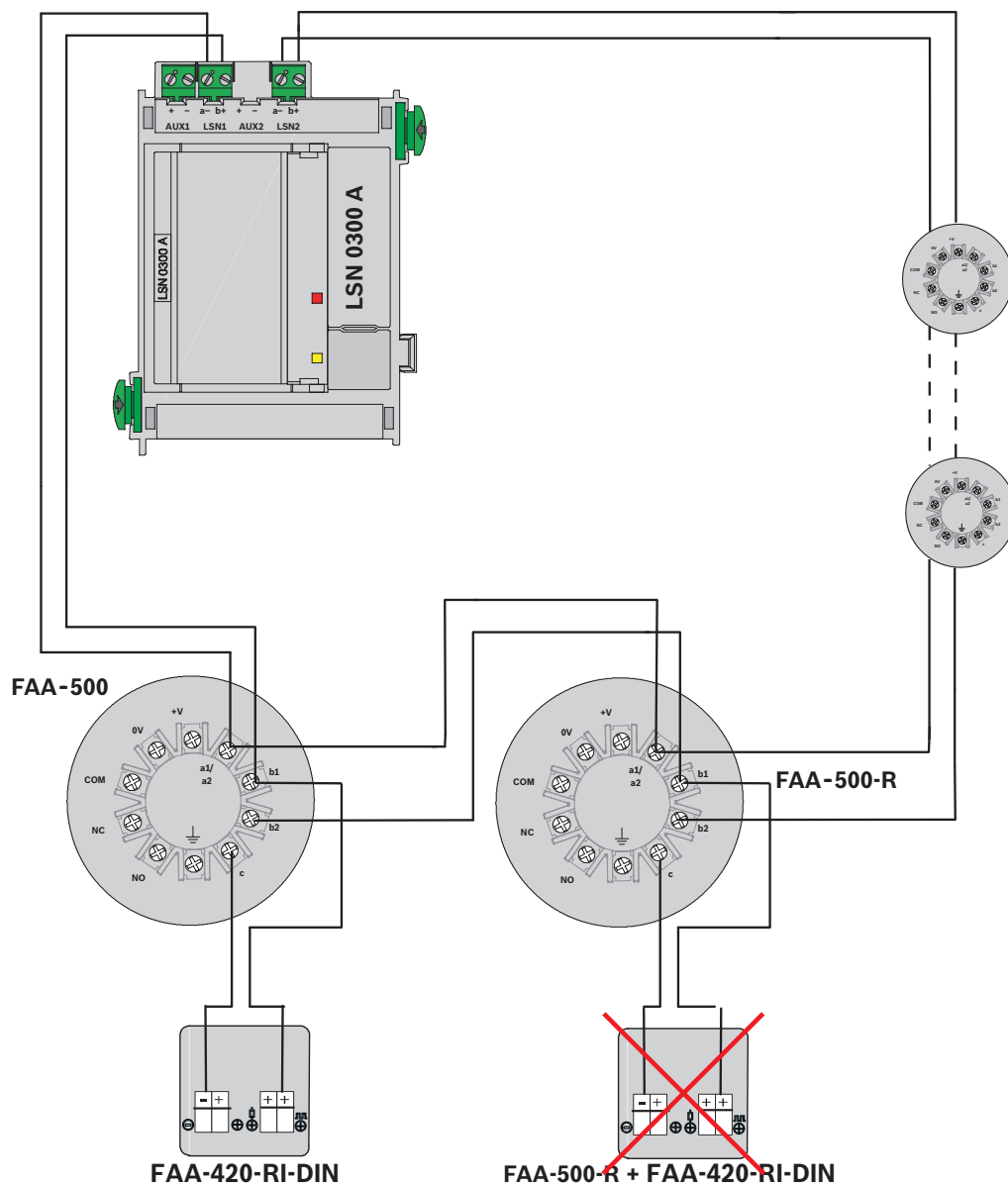




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

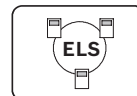


VdS 2489

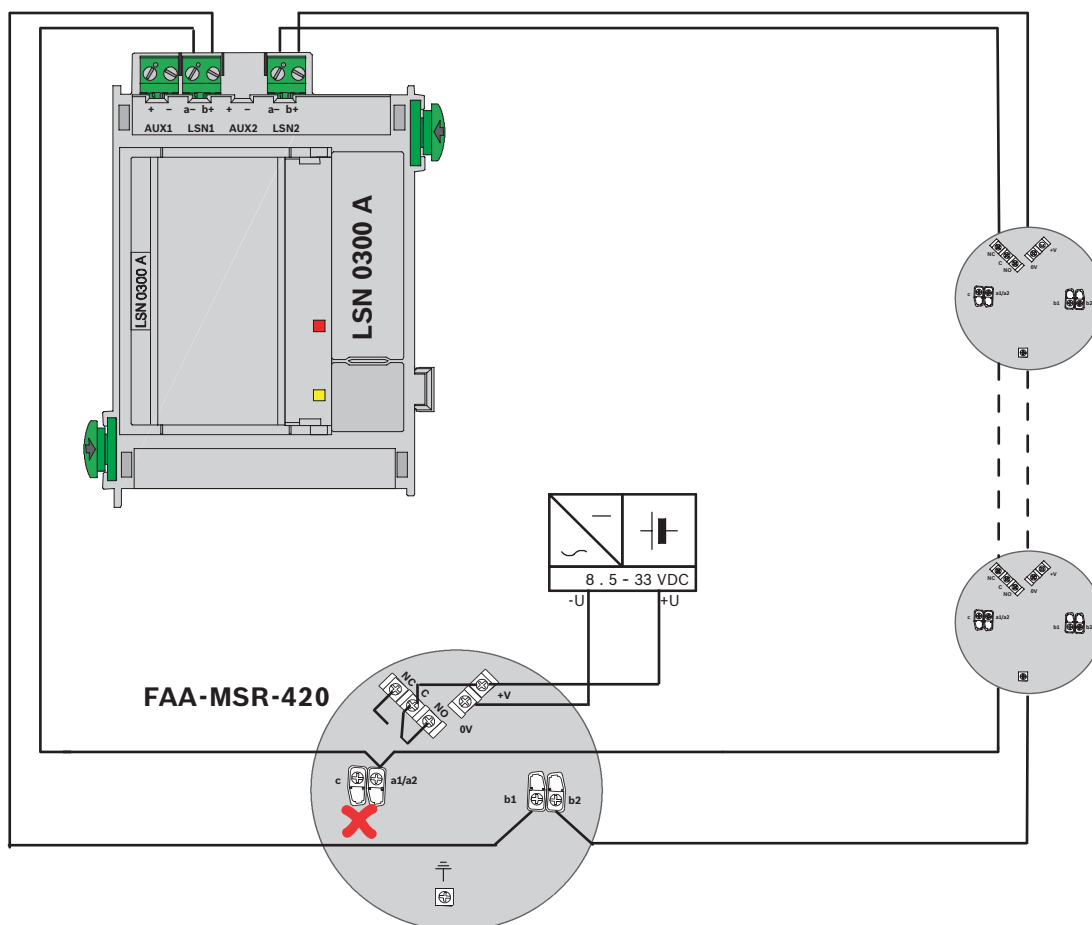




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

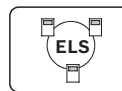


VdS 2489

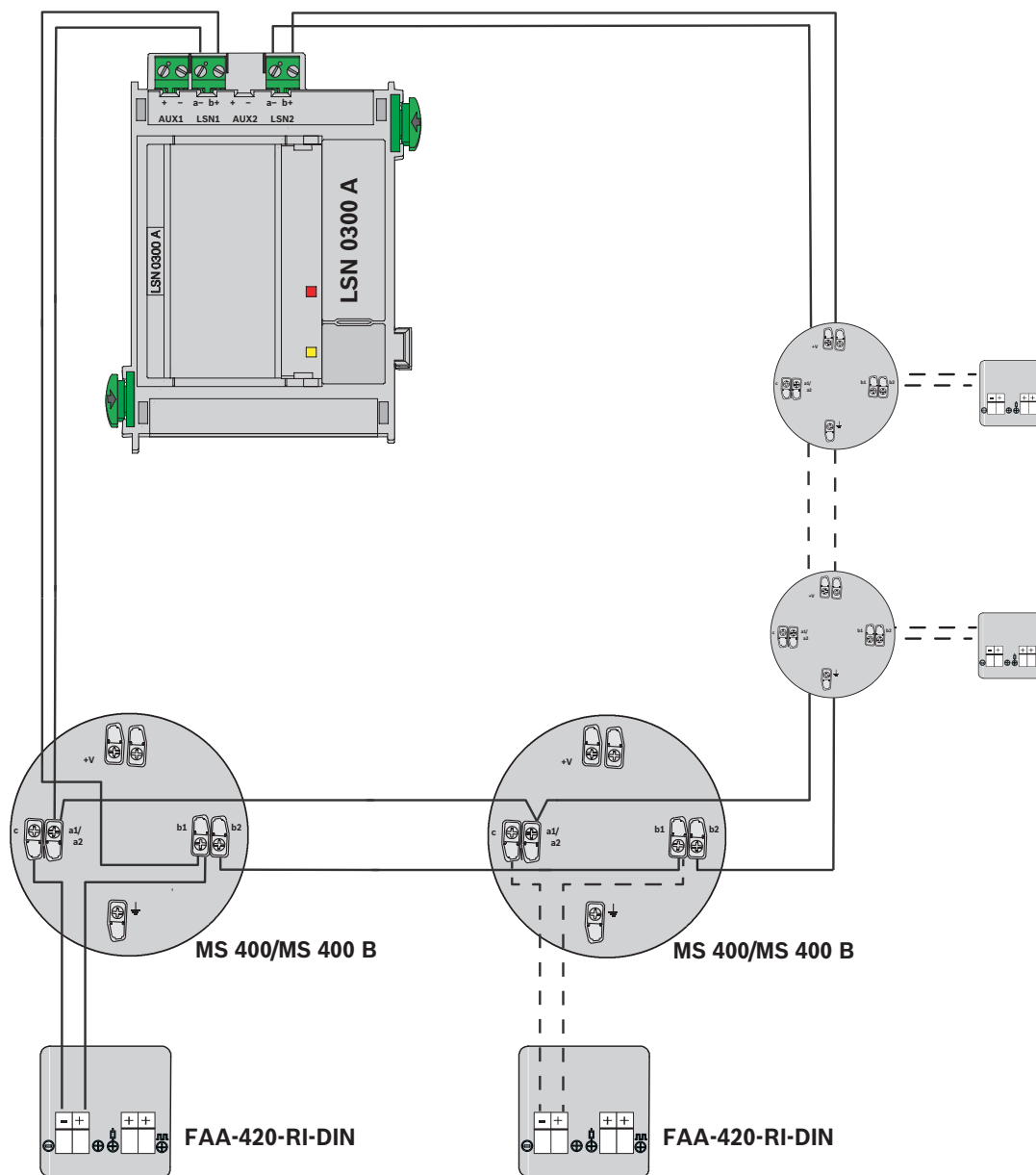


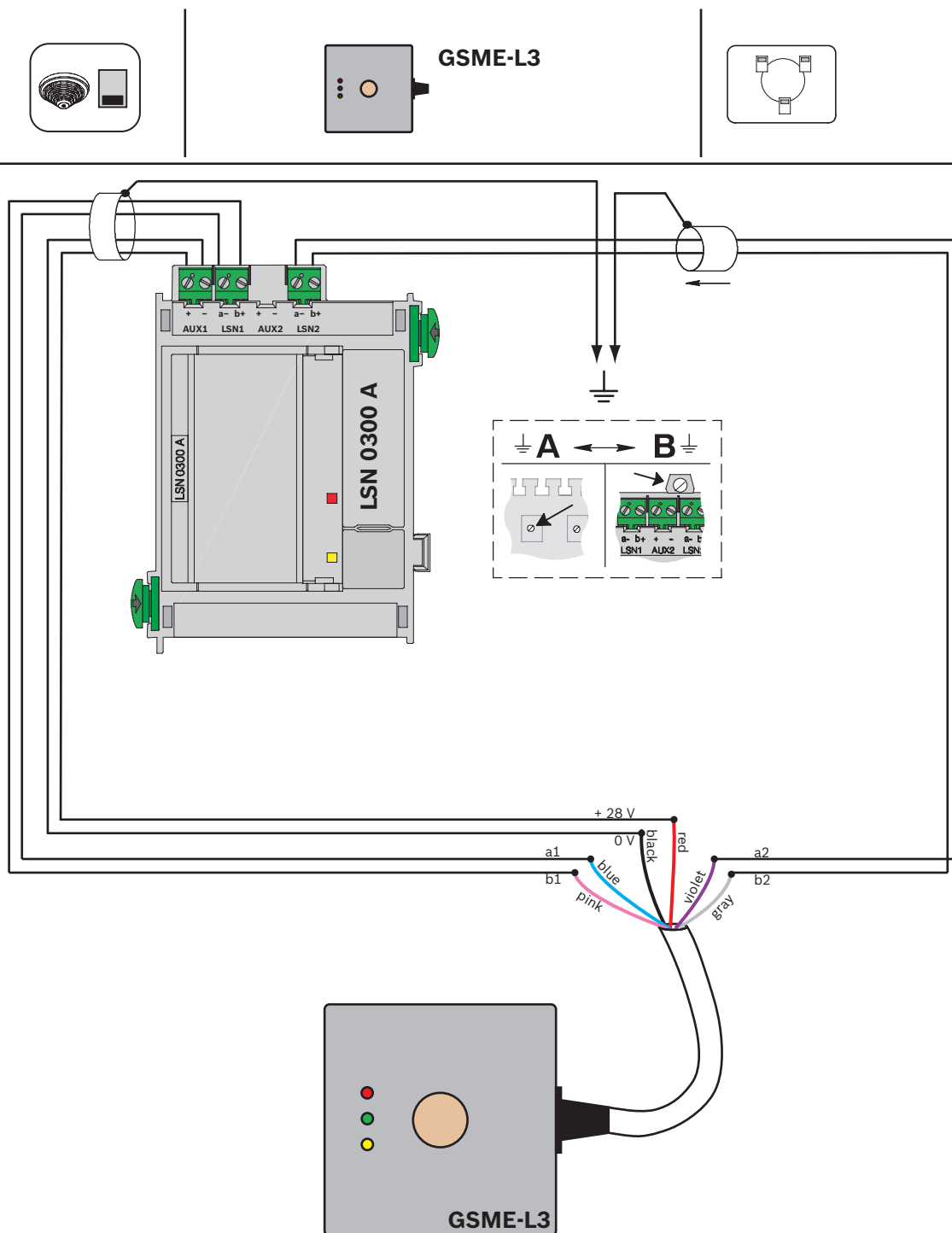


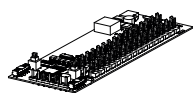
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



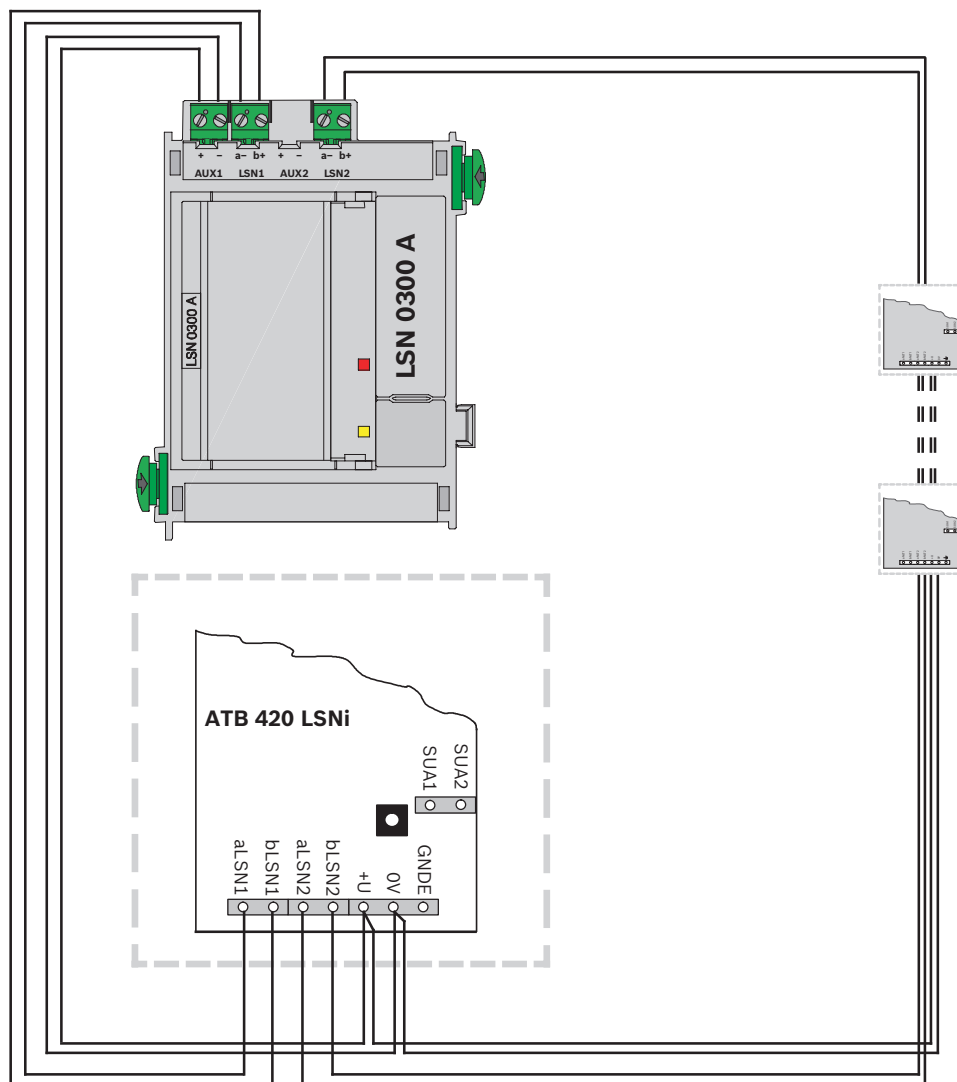
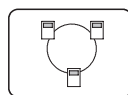
VdS 2489





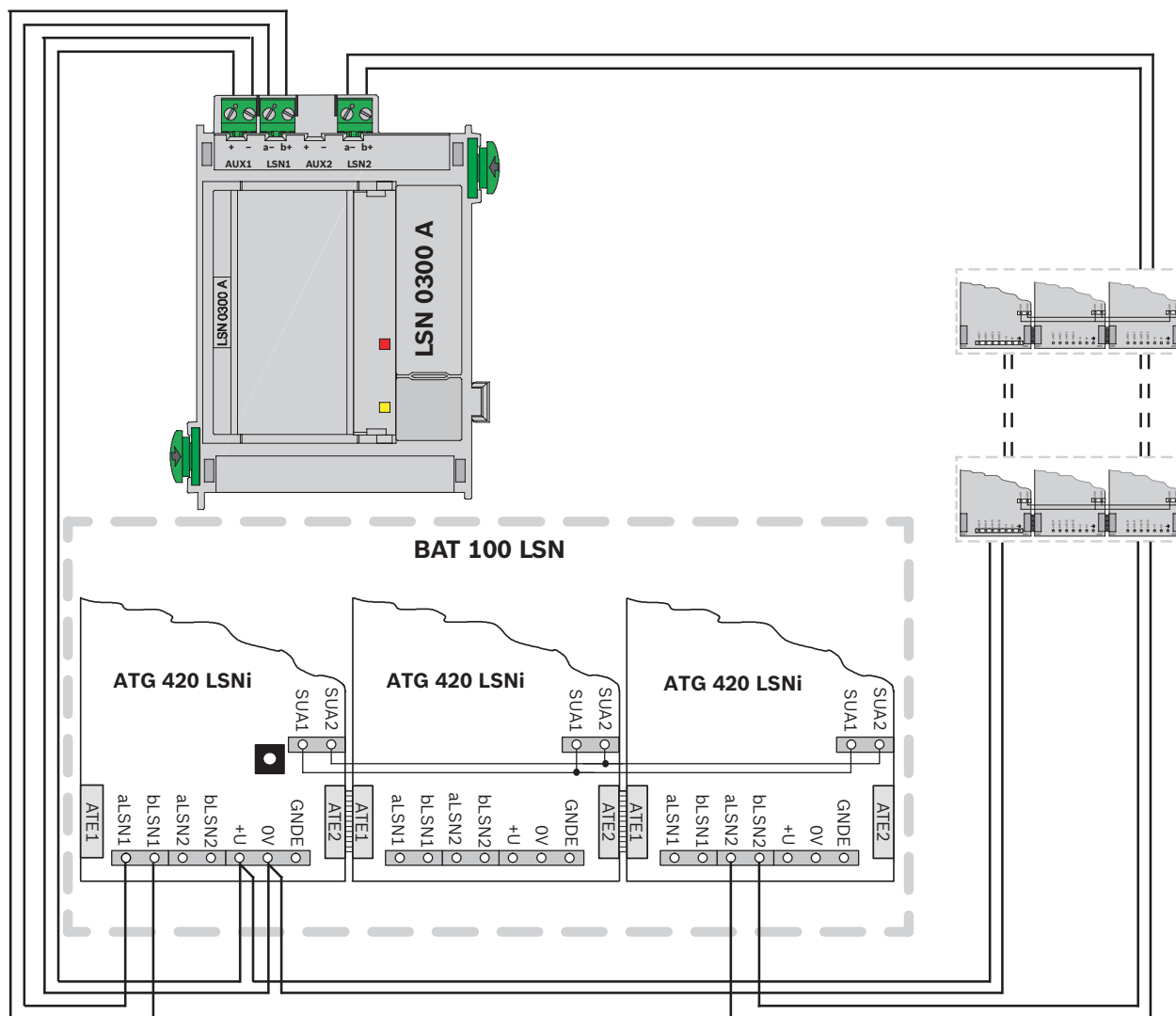
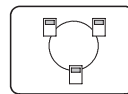


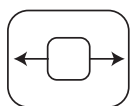
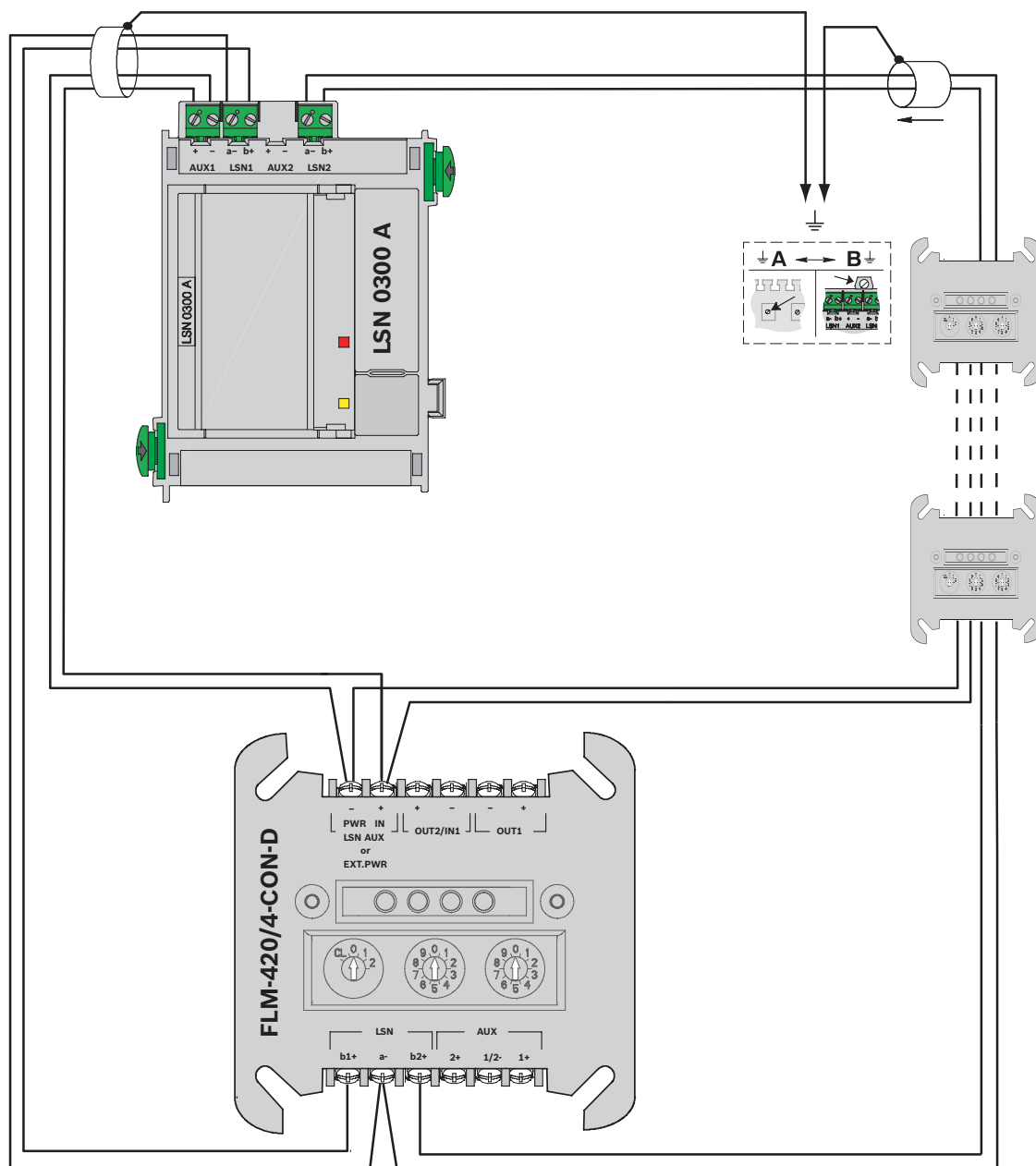
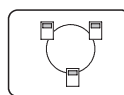
ATB 420 LSNi

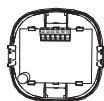
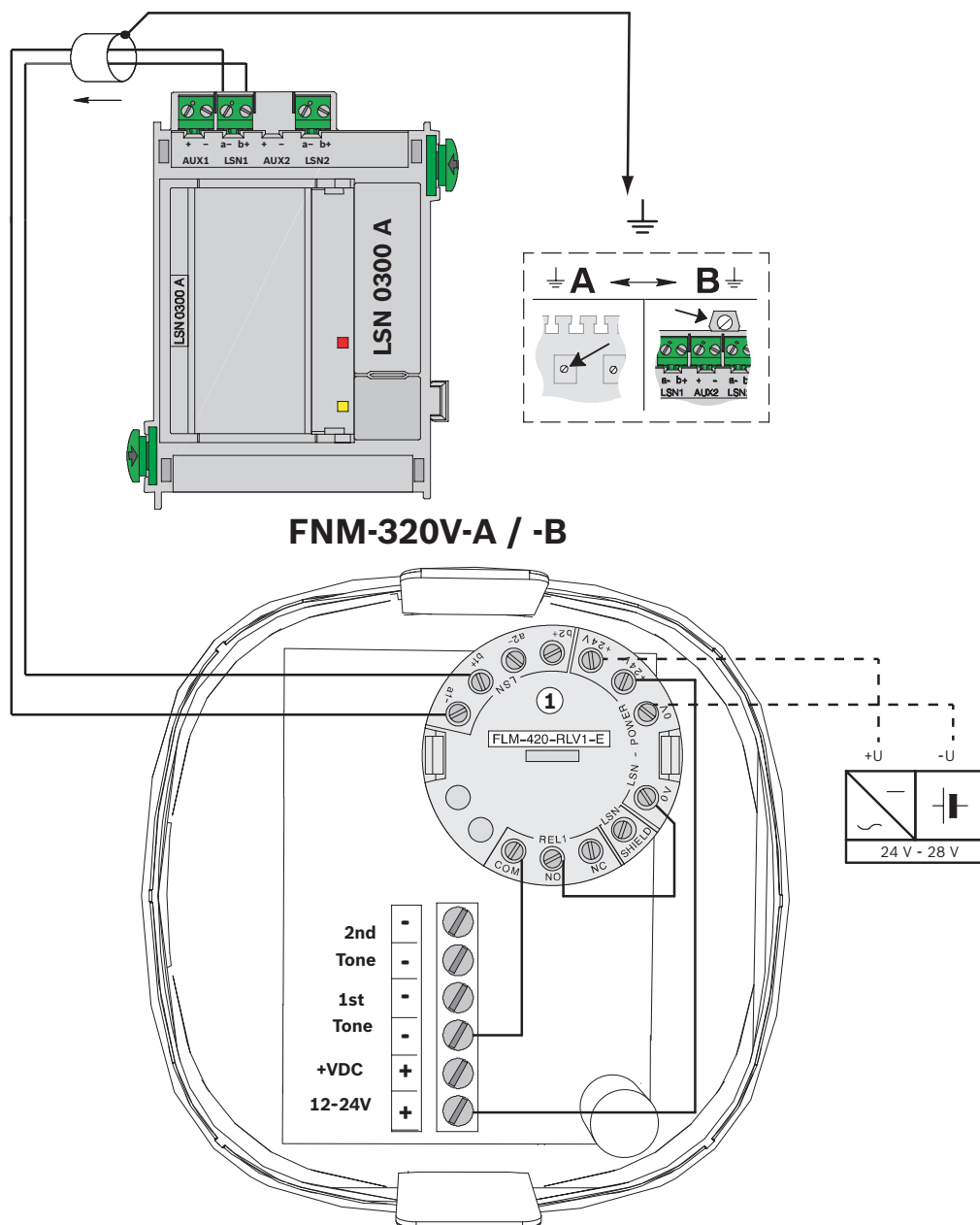
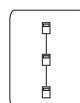




BAT 100 LSN
ATG 420 LSNi

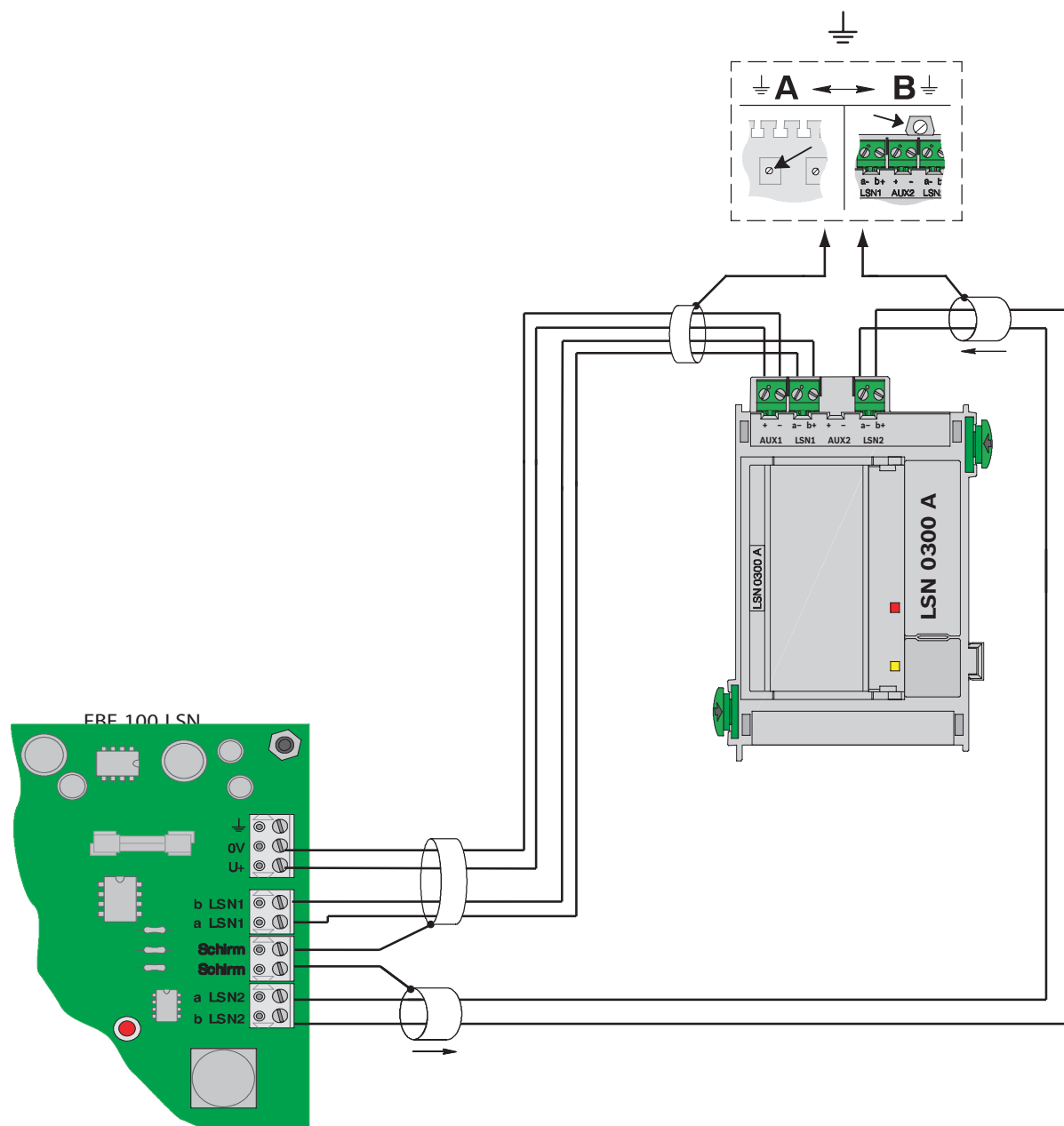
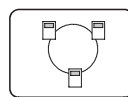


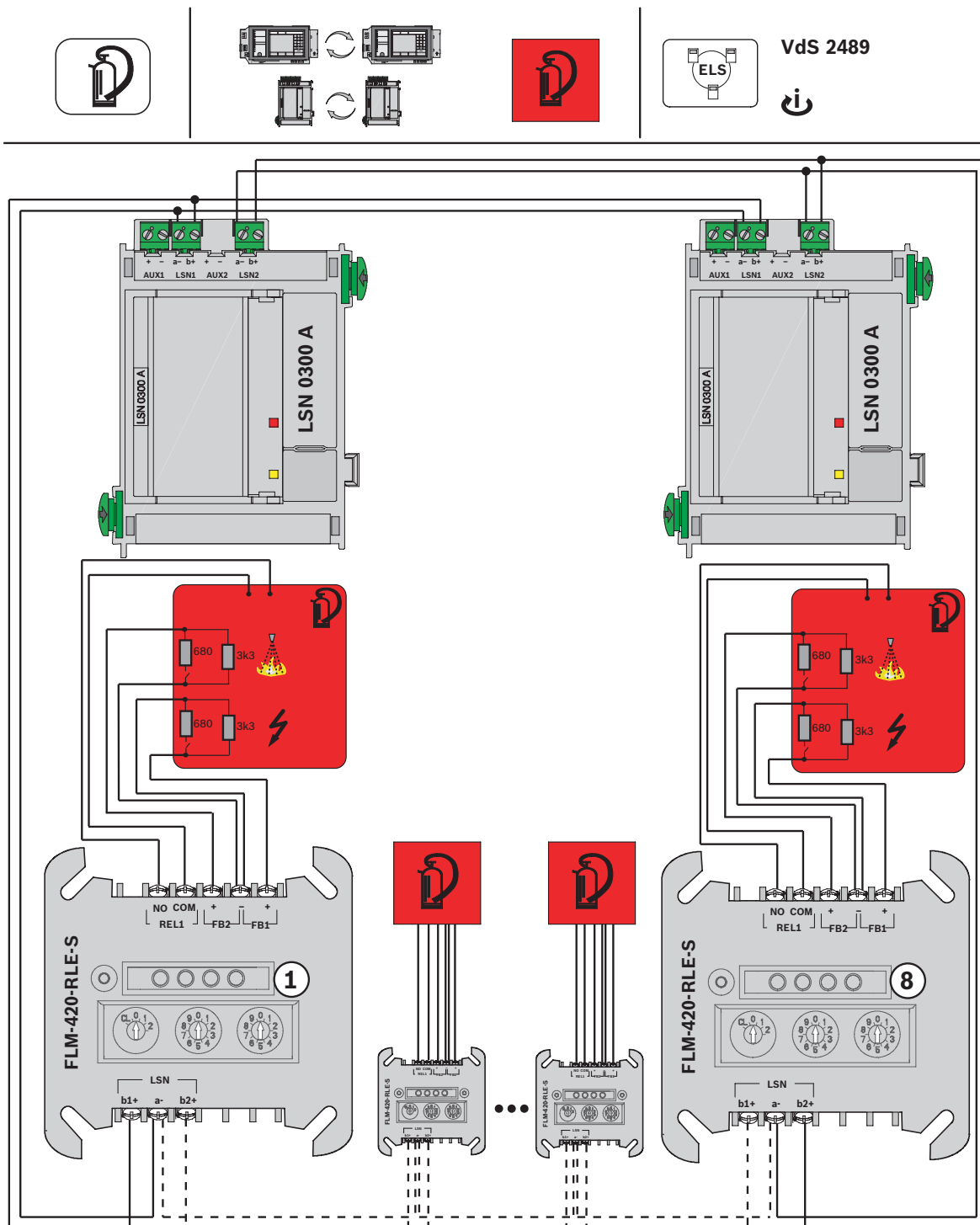
**FLM-420/
4-CON-D**

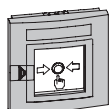
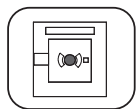
**FNM-320V-A / -B**



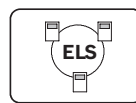
FBF 100 LSN



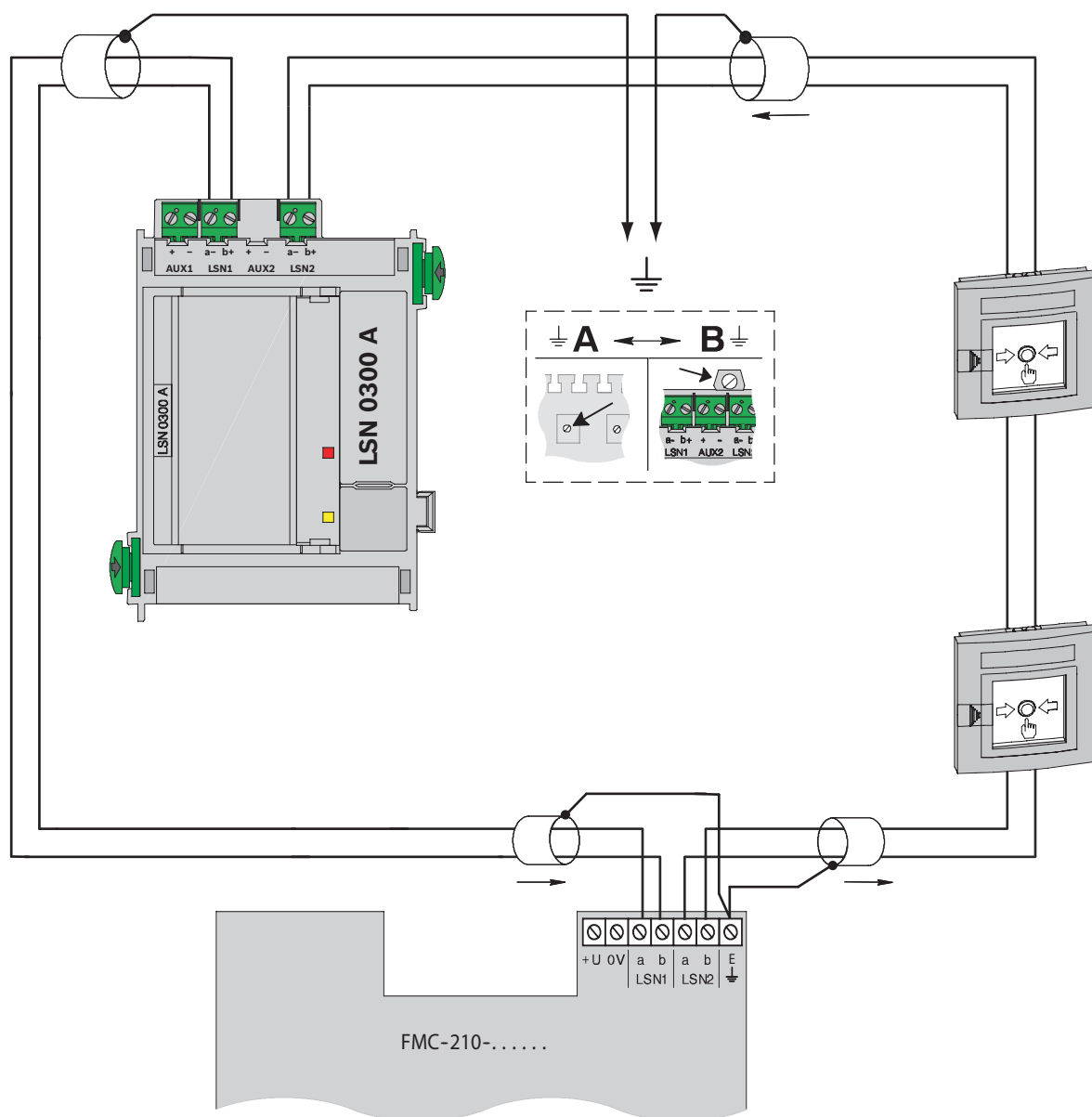


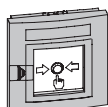
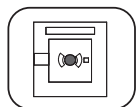
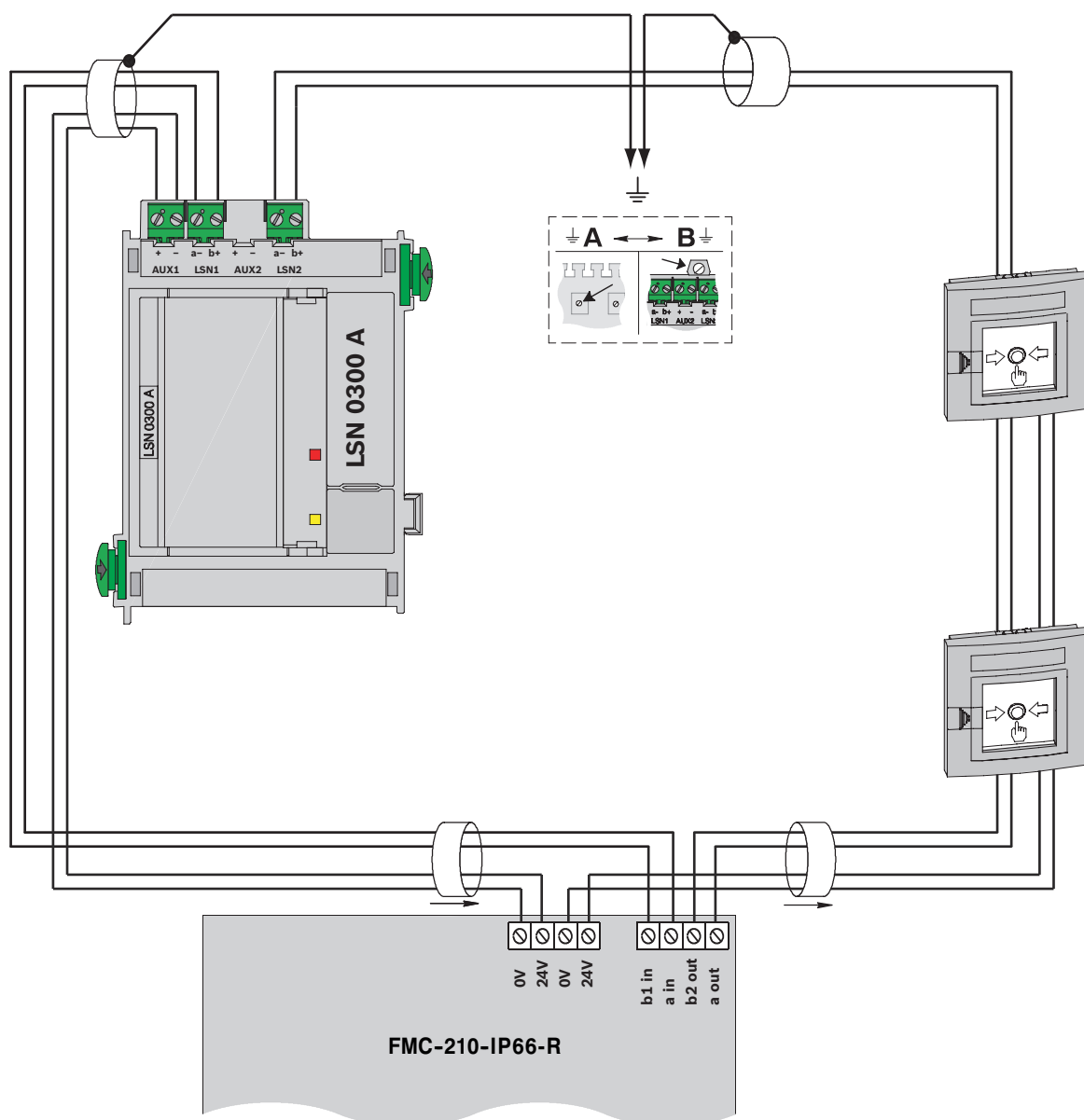
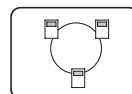


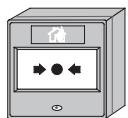
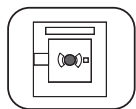
FMC-210-...



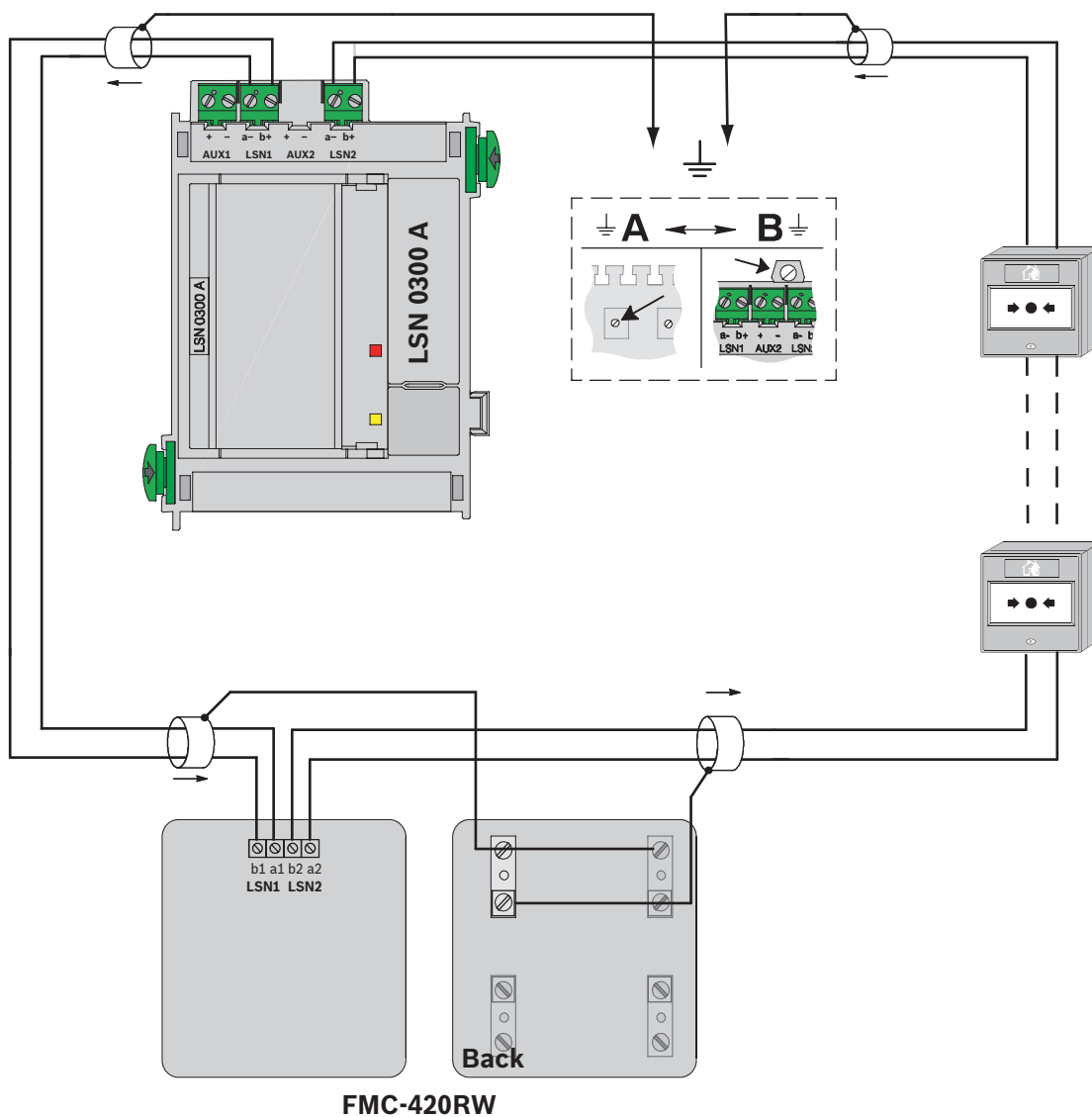
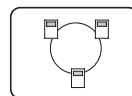
VdS 2489

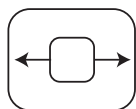
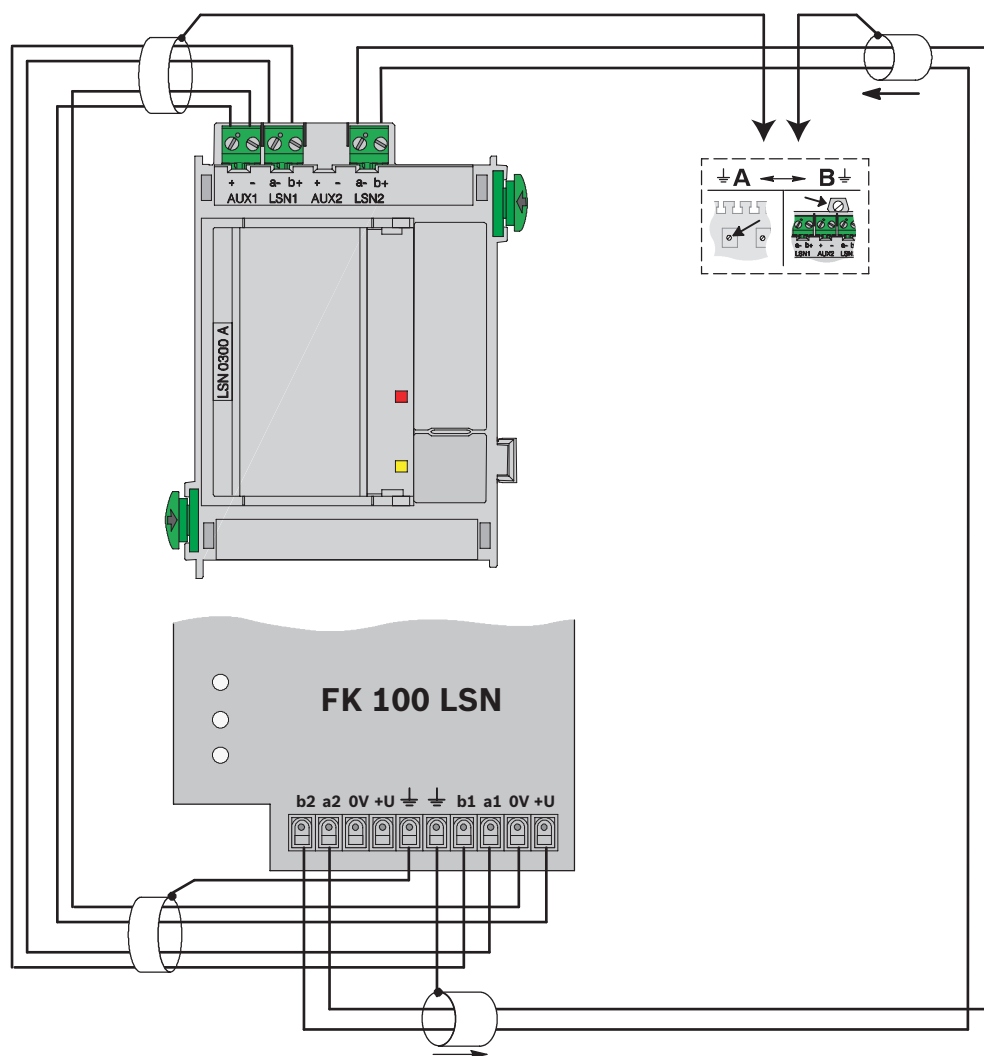
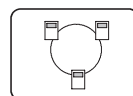


**FMC-210-IP66-R**



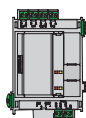
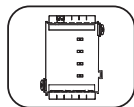
FMC-420RW-HSGRD
FMC-420RW-HSRRD
FMC-420RW-GFGRD
FMC-420RW-GFRRD
FMC-420RW-GSGRD
FMC-420RW-GSRRD



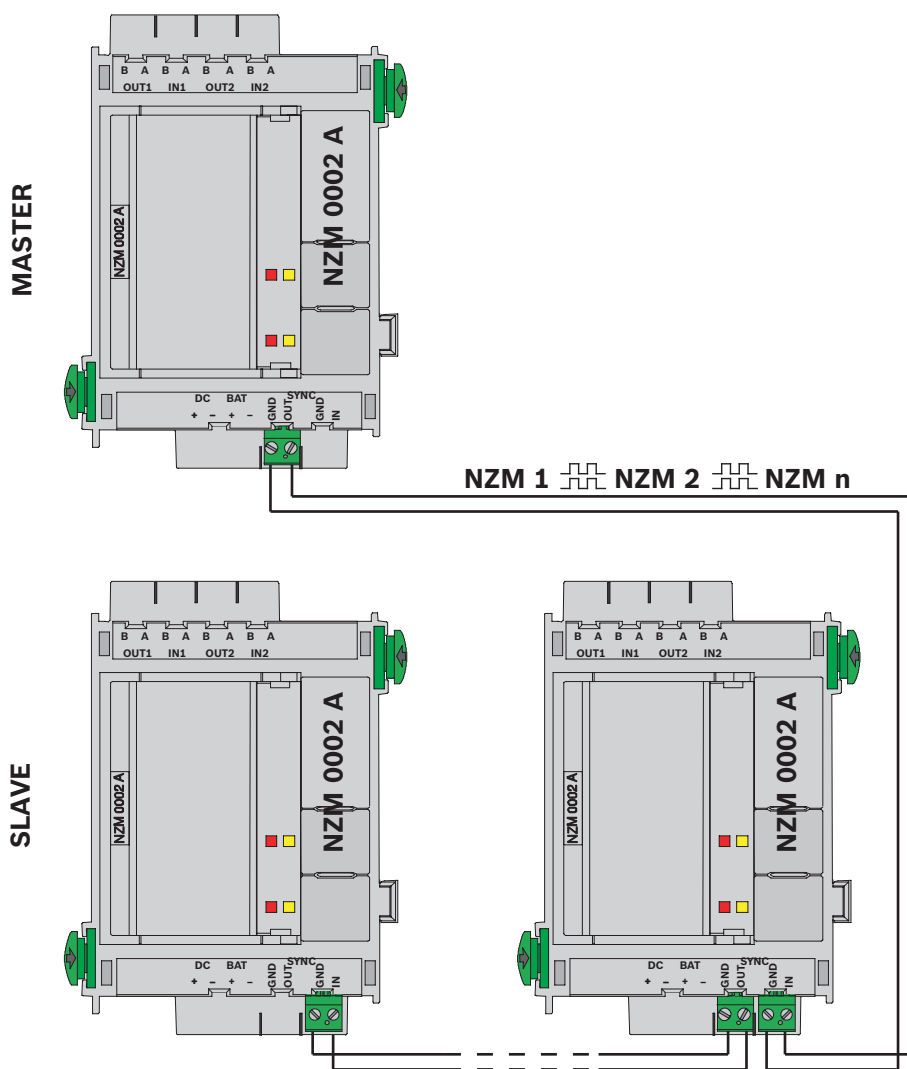
**FK 100 LSN**

3.3.5

NZM 0002 A

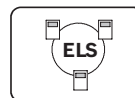


NZM 0002 A

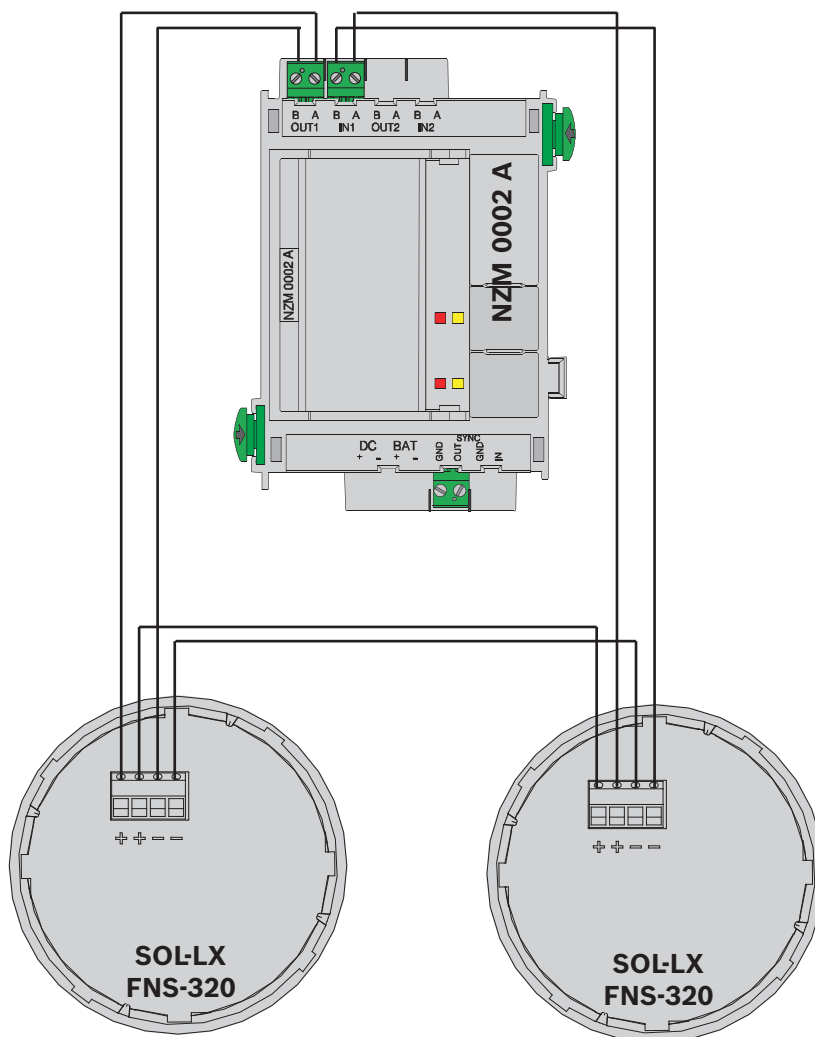




**SOL-LX
FNS-320**

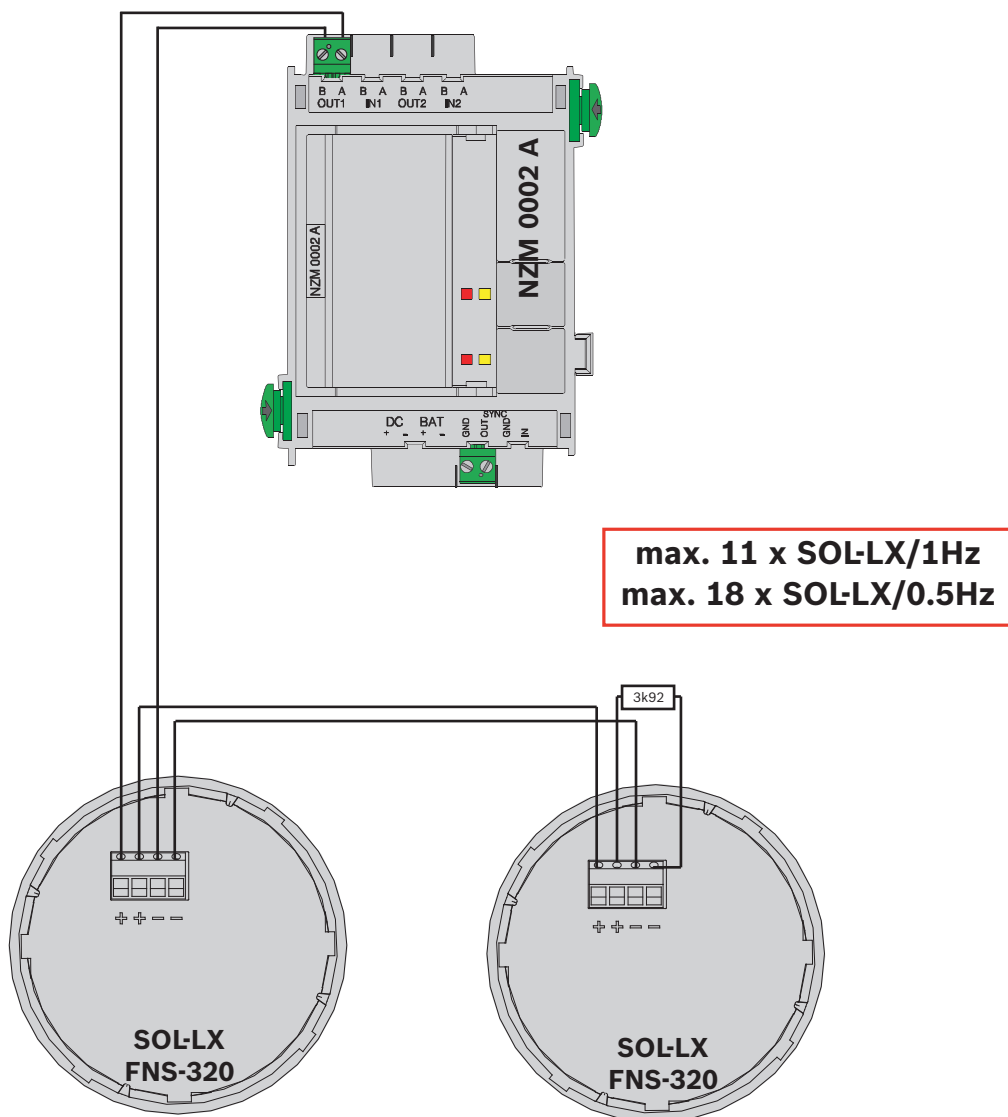
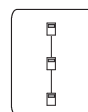


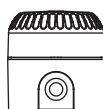
VdS 2489



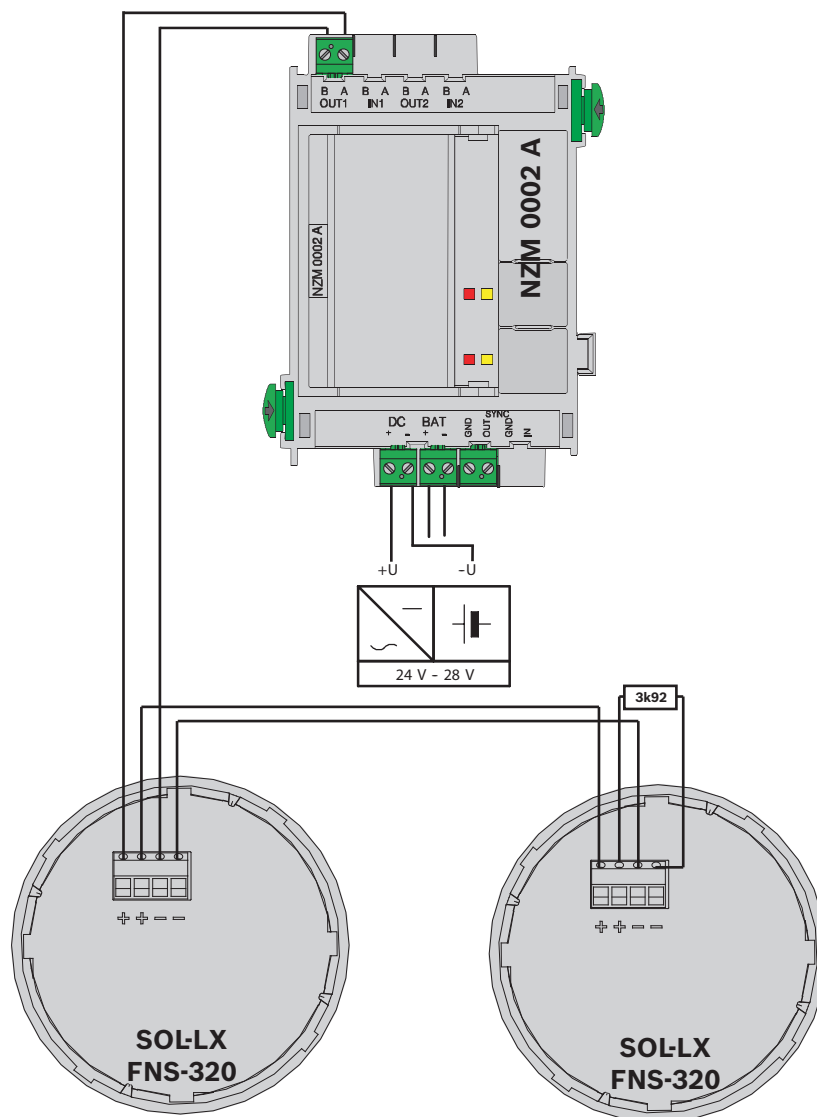
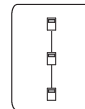


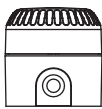
**SOL-LX
FNS-320**



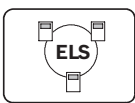


**SOL-LX
FNS-320**

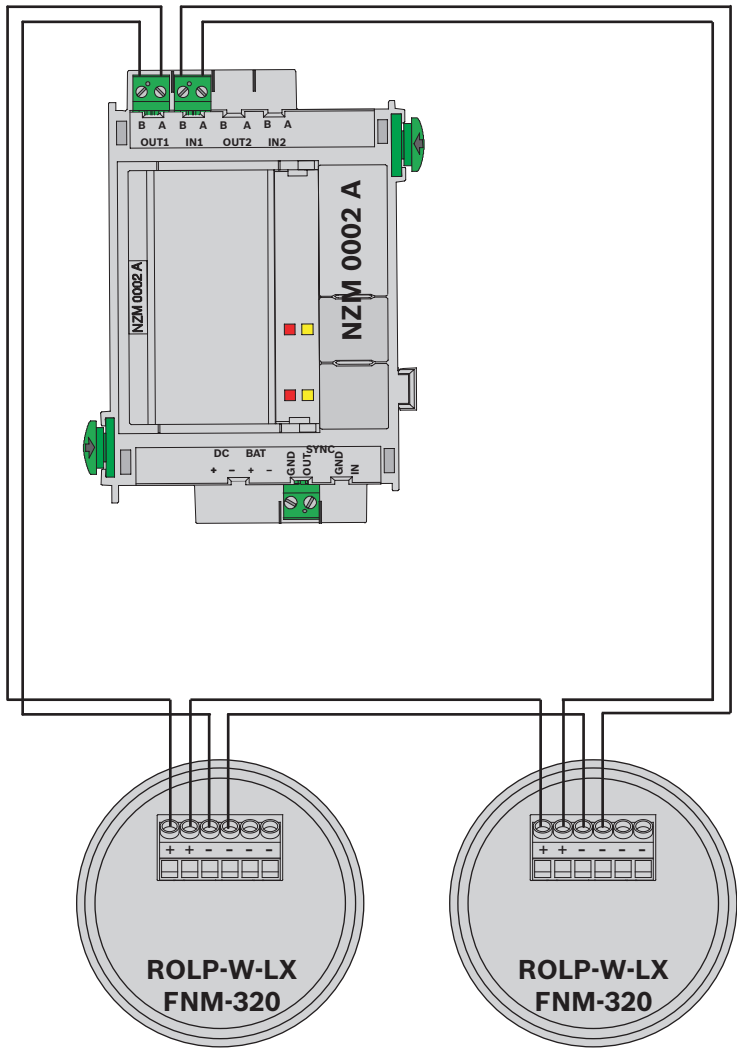




**ROLP-W-LX
FNM-320**

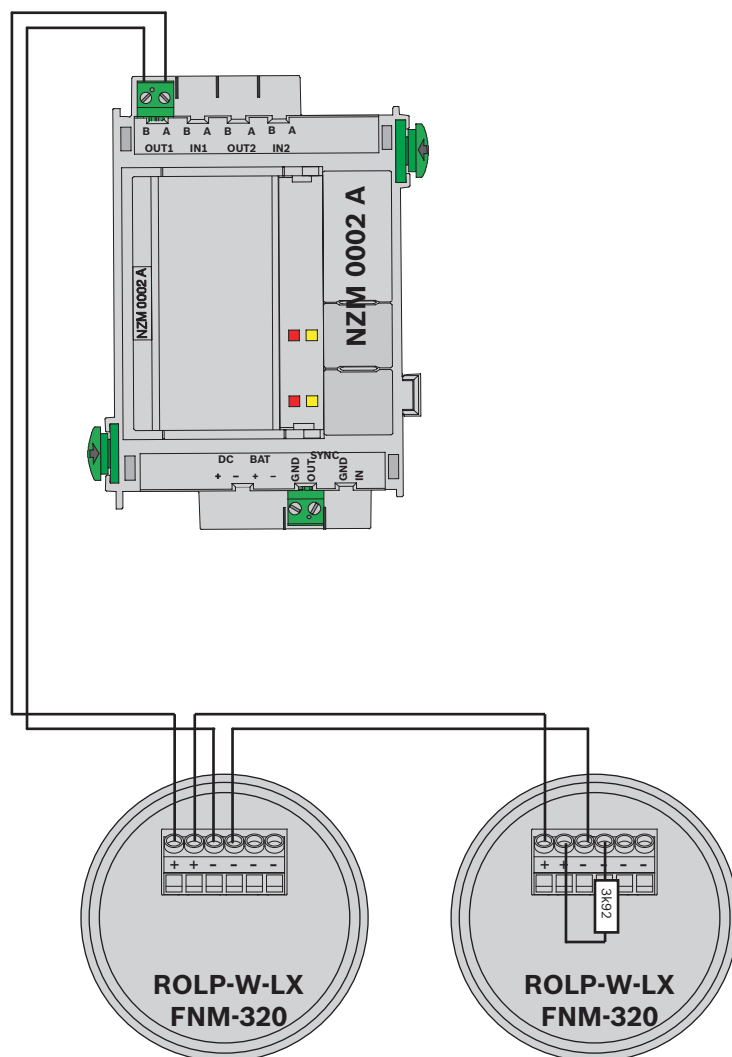
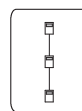


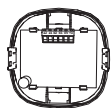
VdS 2489



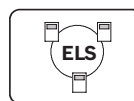


**ROLP-W-LX
FNM-320**

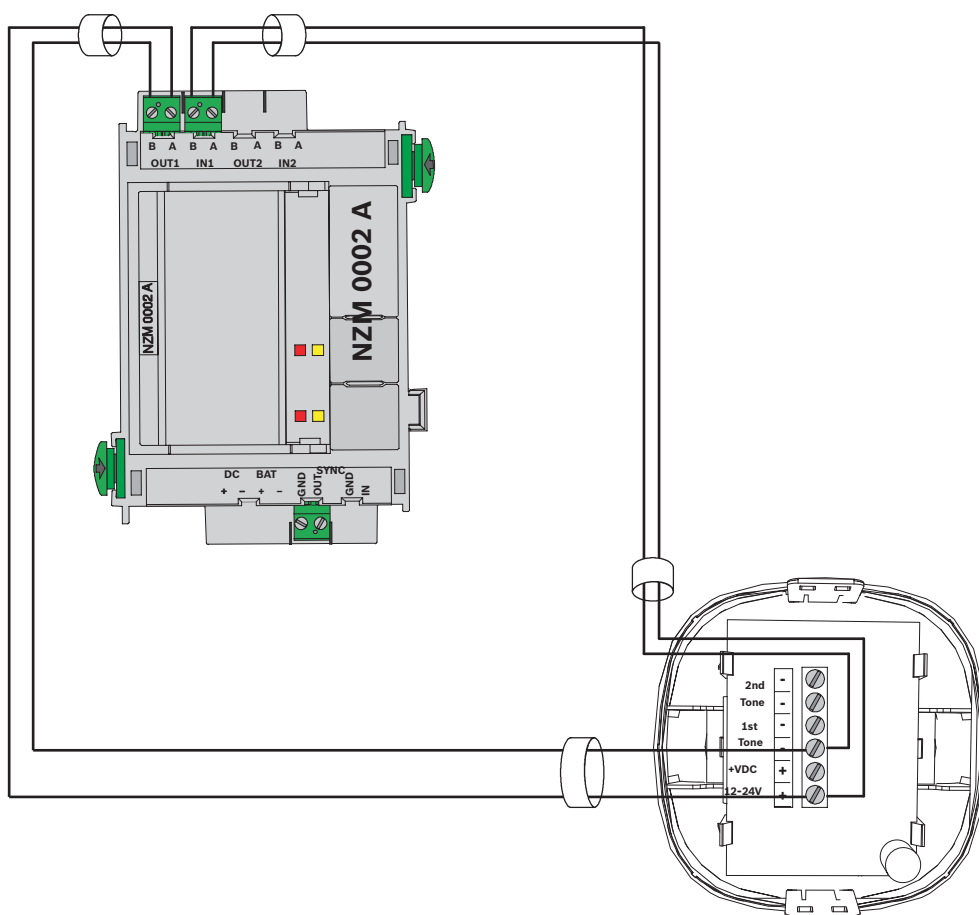


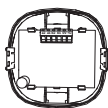
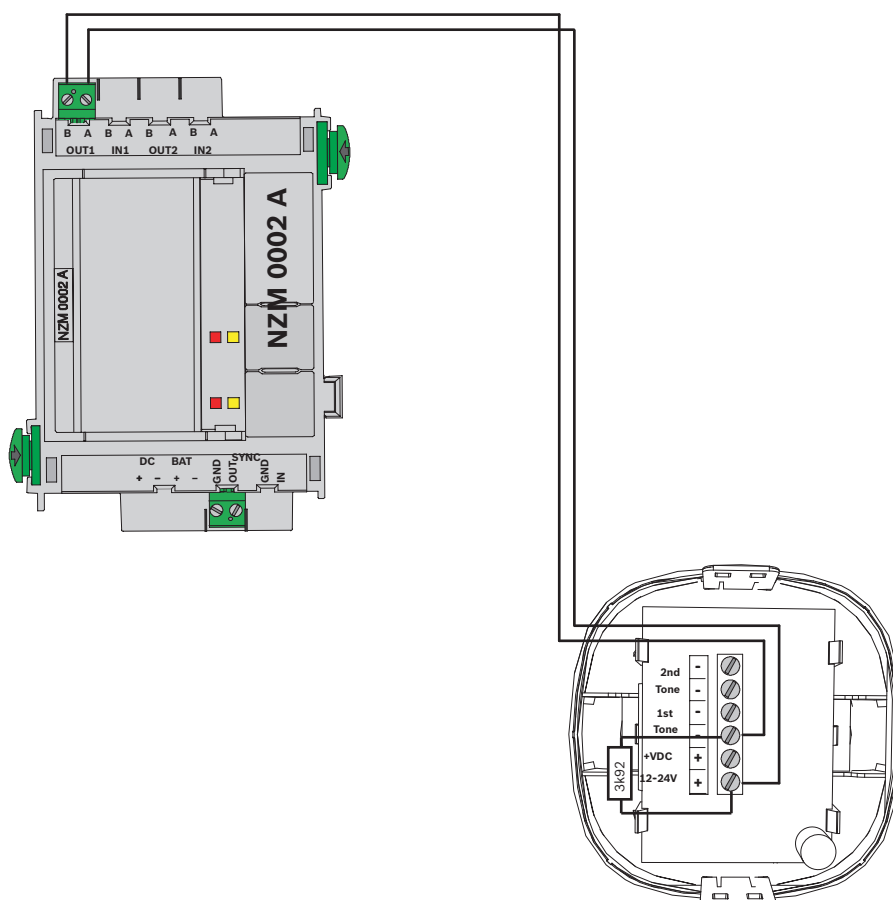
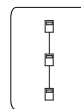


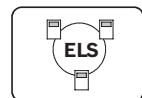
FNM-320V-A / -B



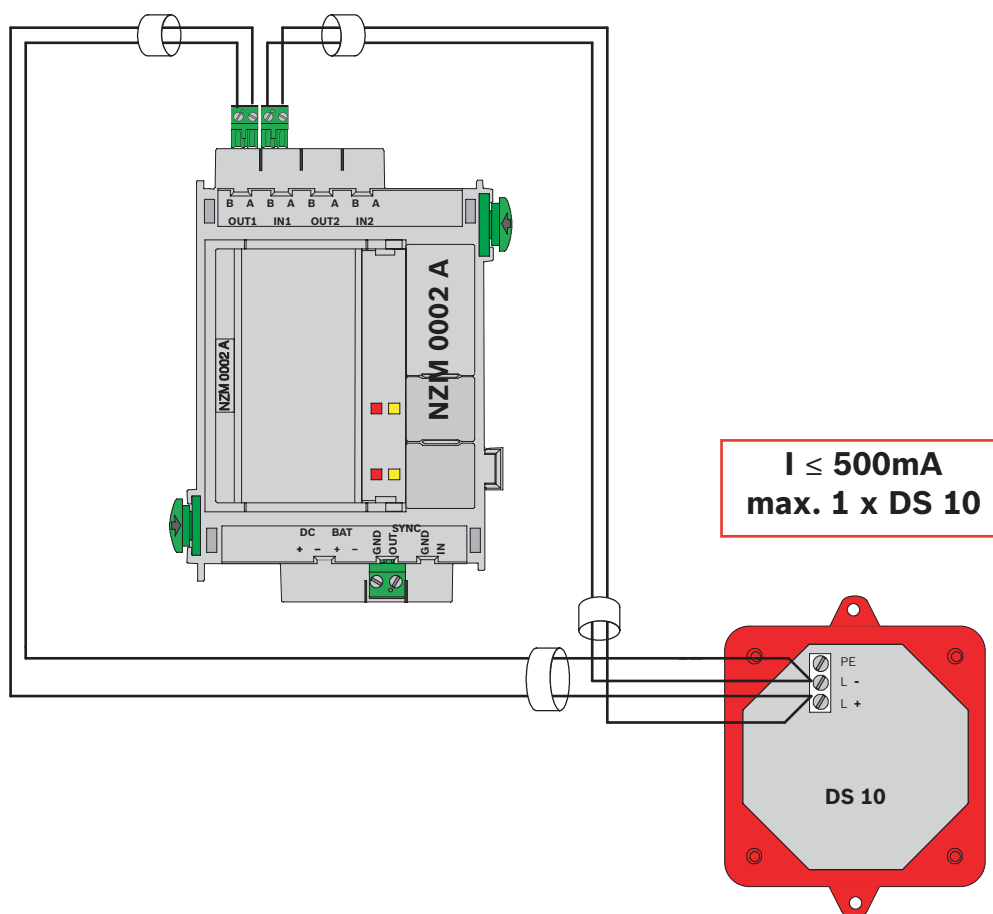
VdS 2489

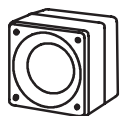


**FNM-320V-A / -B**

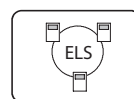


VdS 2489

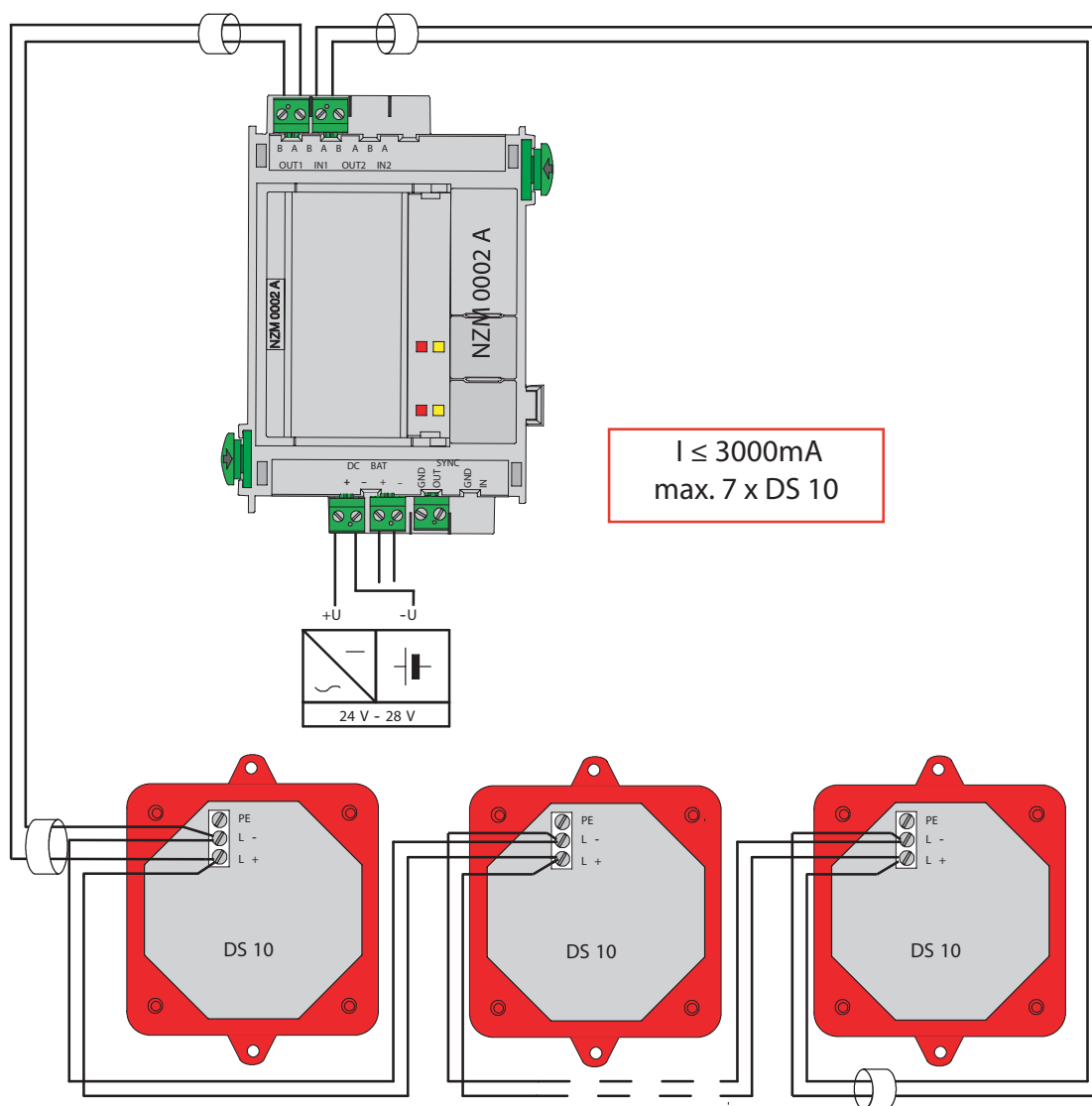


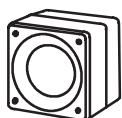
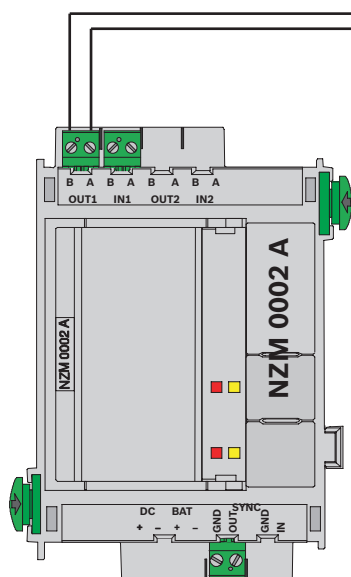
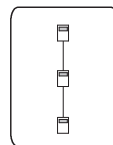


DS 10

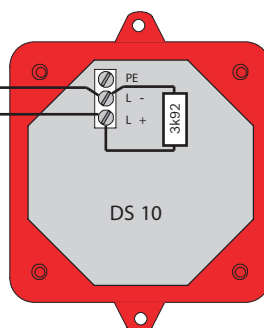


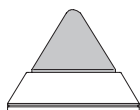
VdS 2489



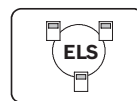
**DS 10**

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

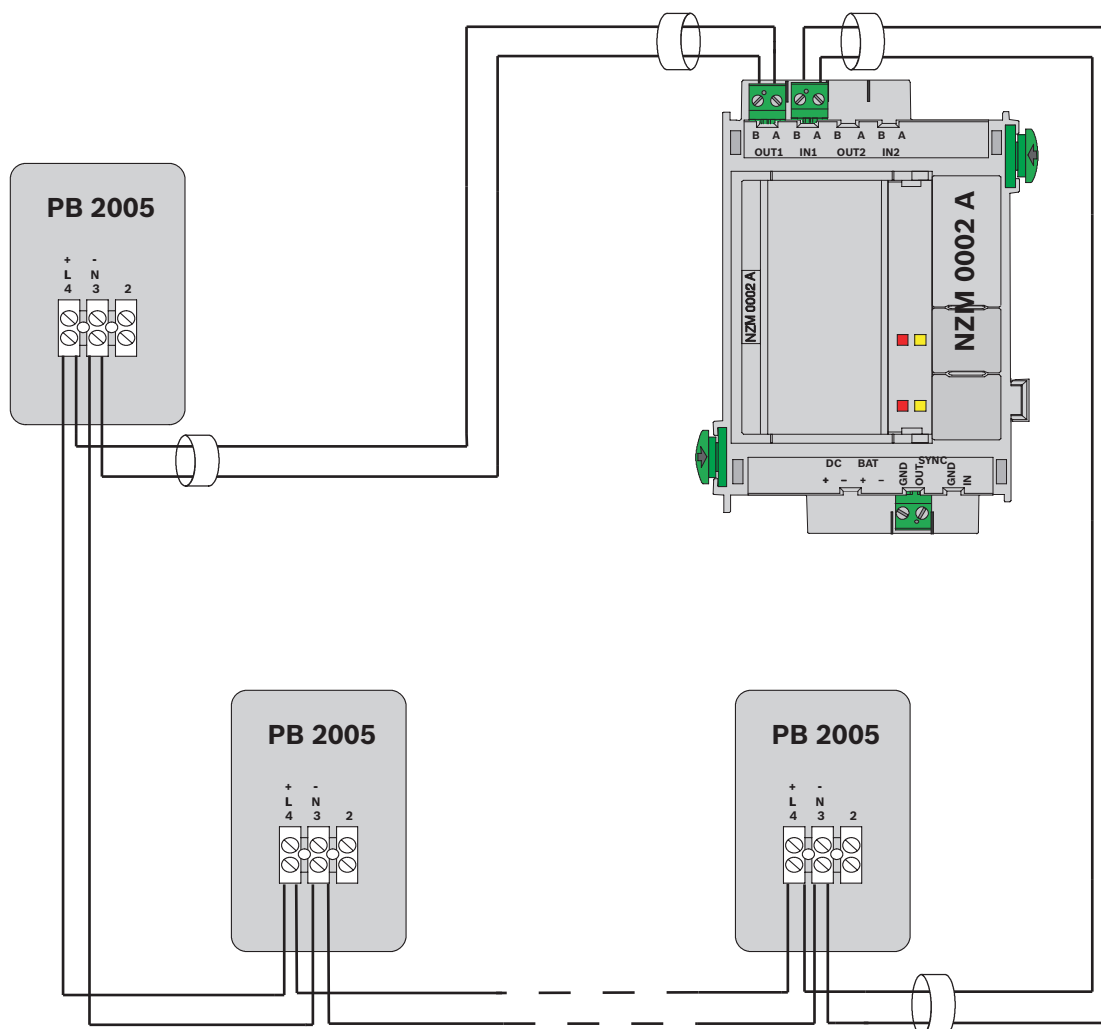


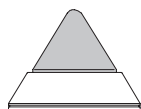
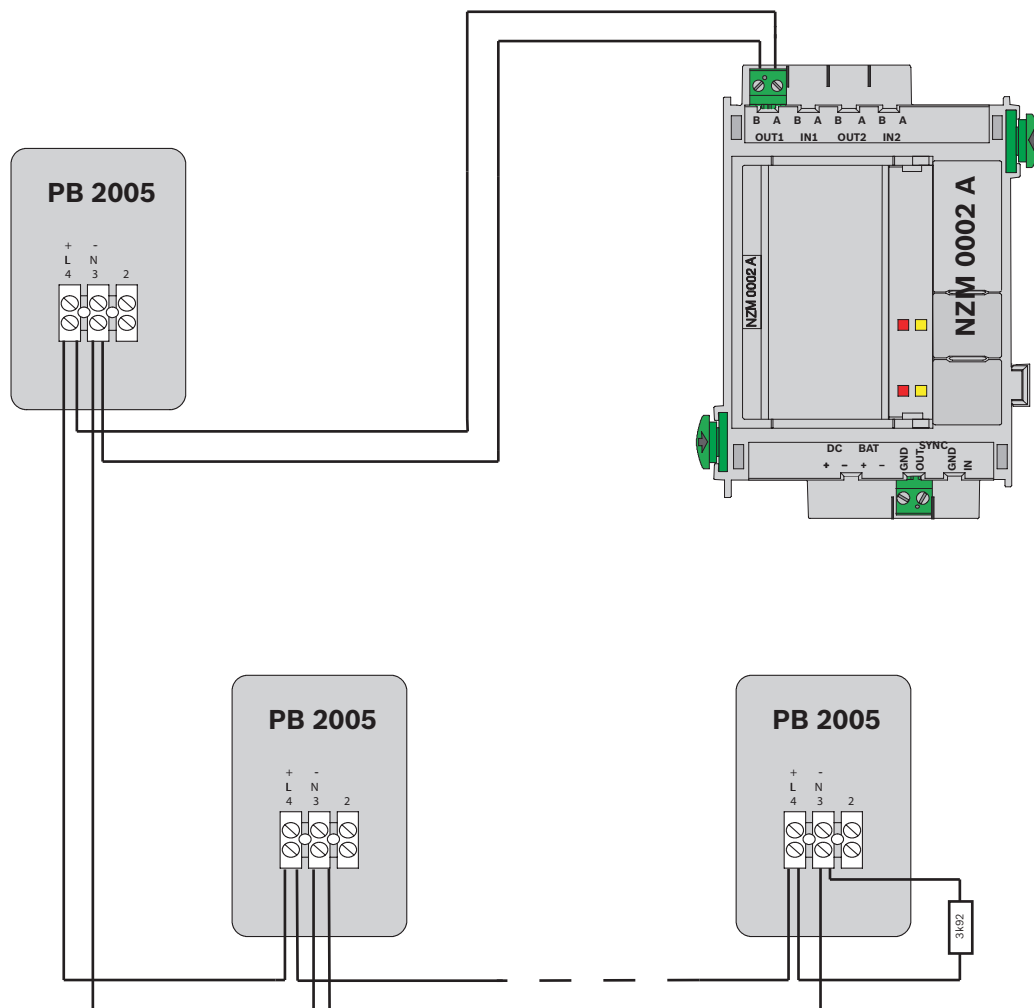
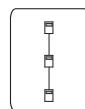


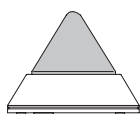
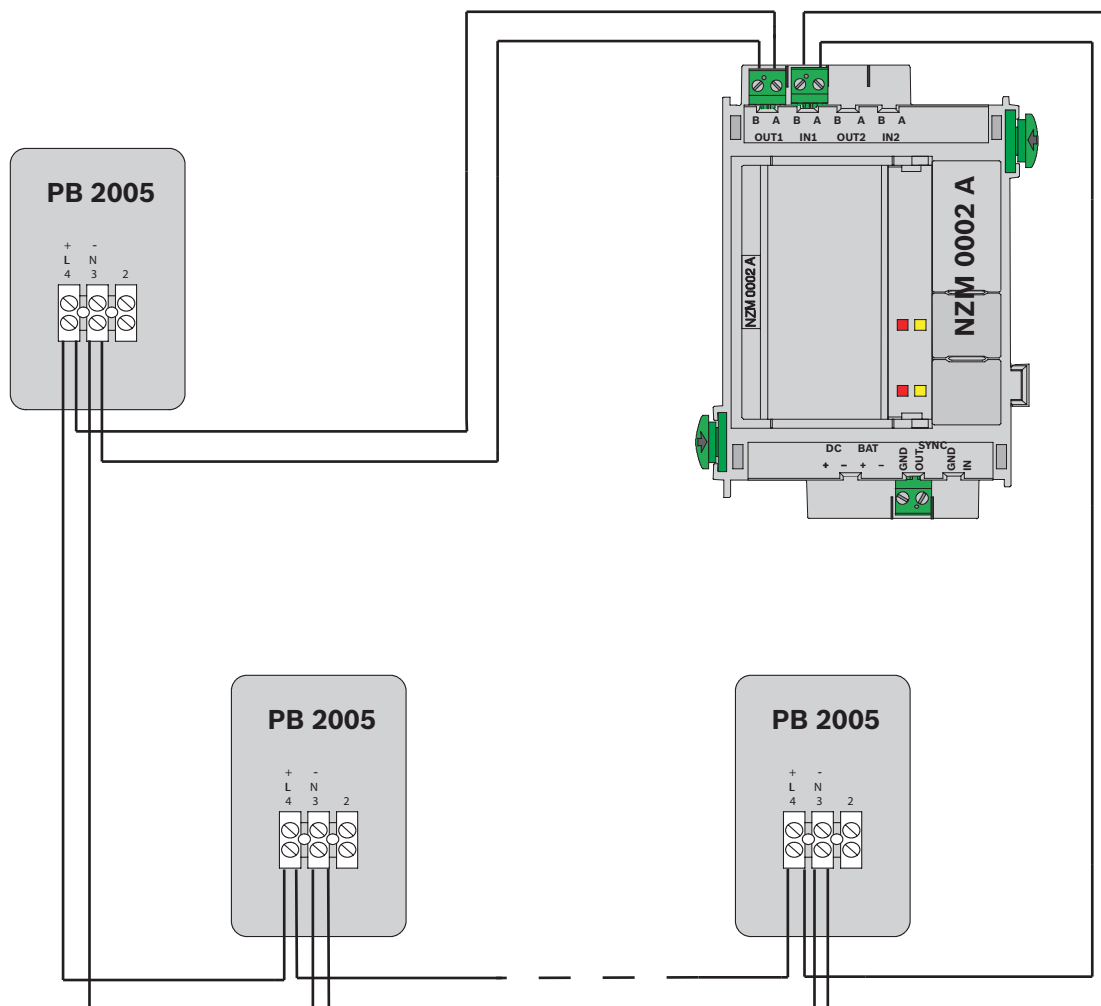
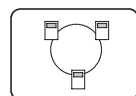
PB 2005

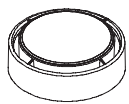


VdS 2489

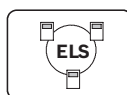


**PB 2005**

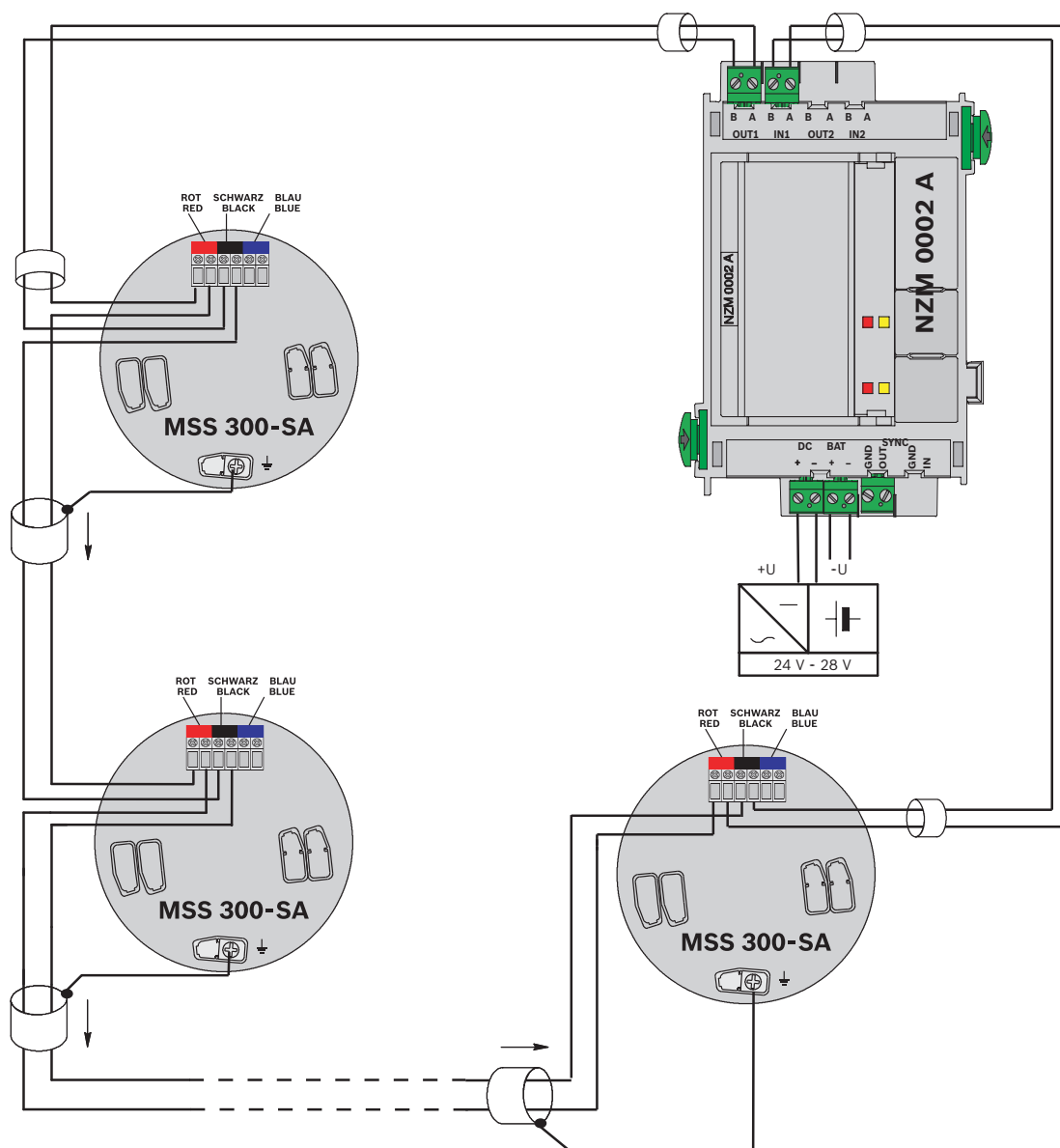
**PB 2005**



MSS 300-SA

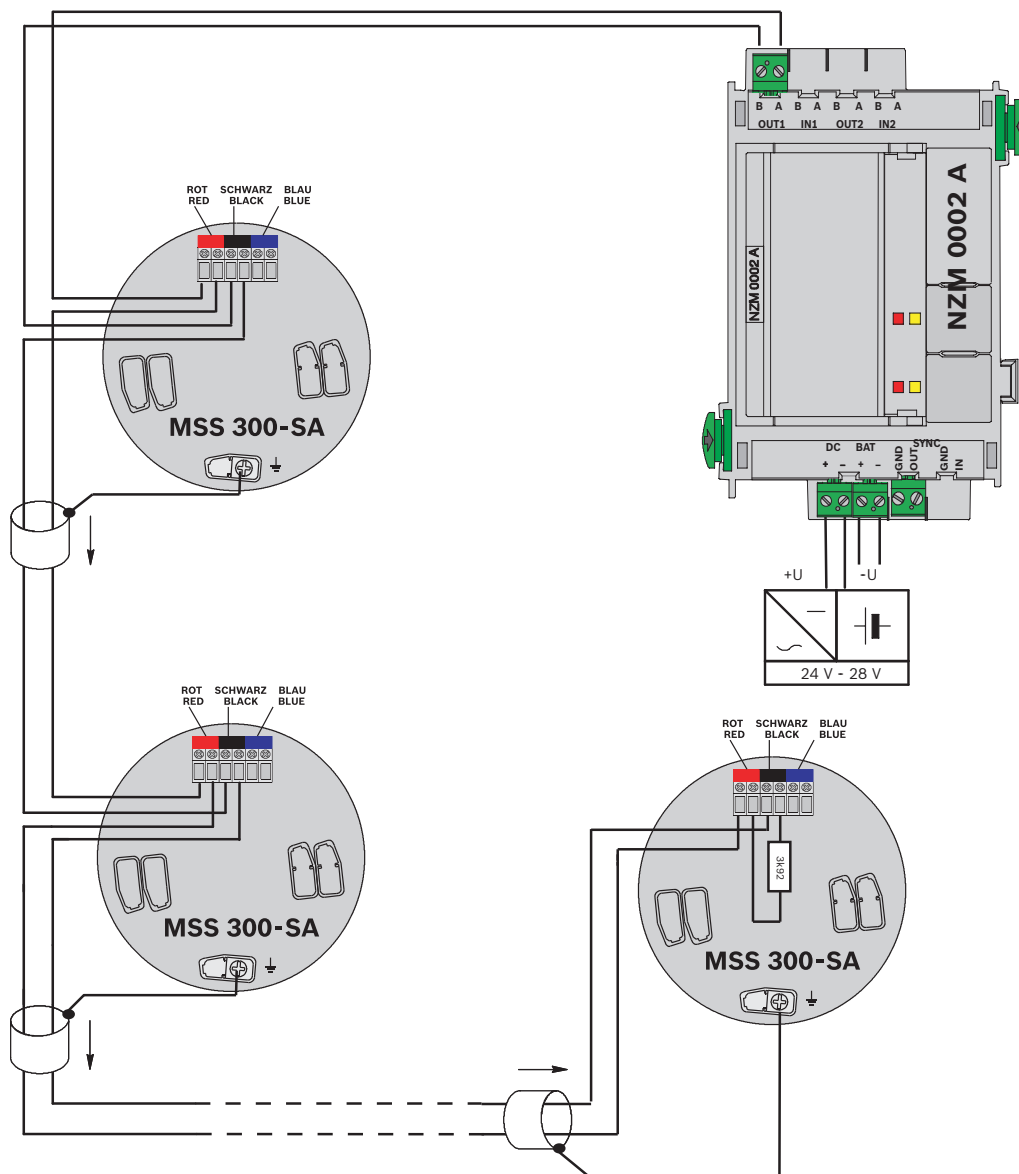
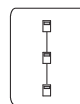


VdS 2489





MSS 300-SA



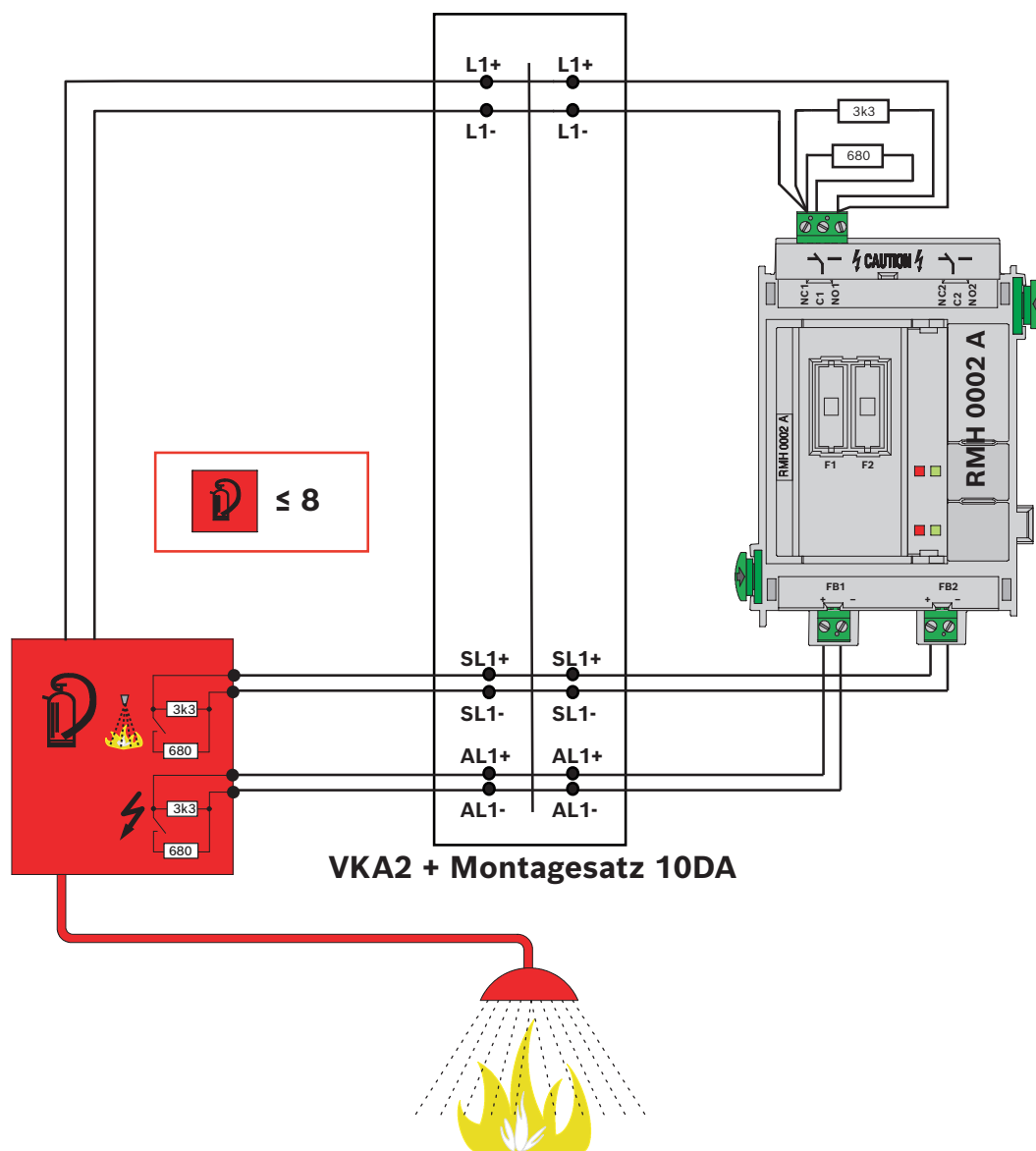
3.3.6

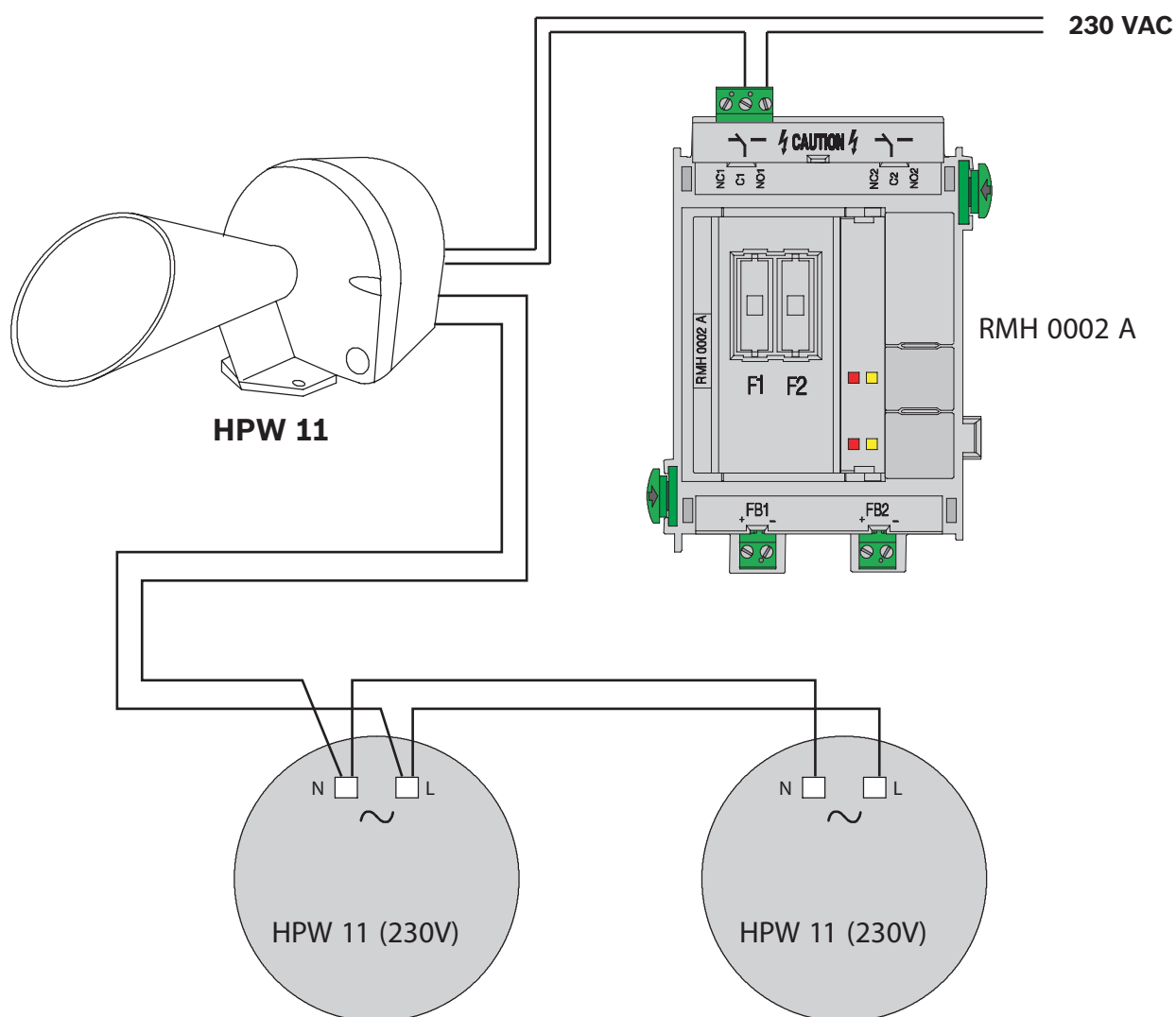
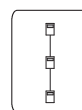
RMH 0002 A

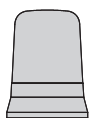


Löschanlage

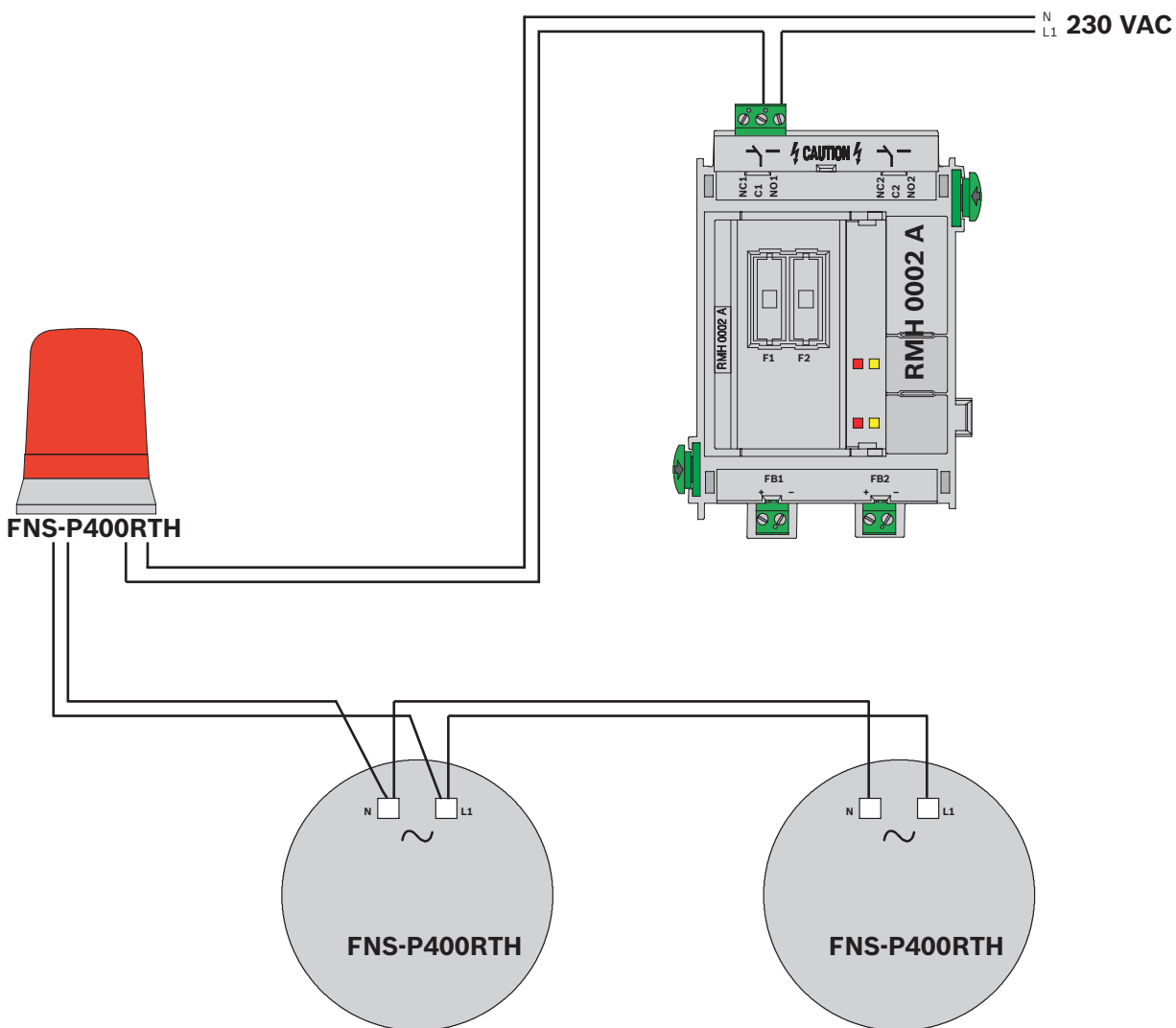
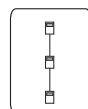
VdS 2496:2005-09



**HPW 11**

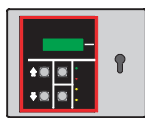


FNS-P400RTH

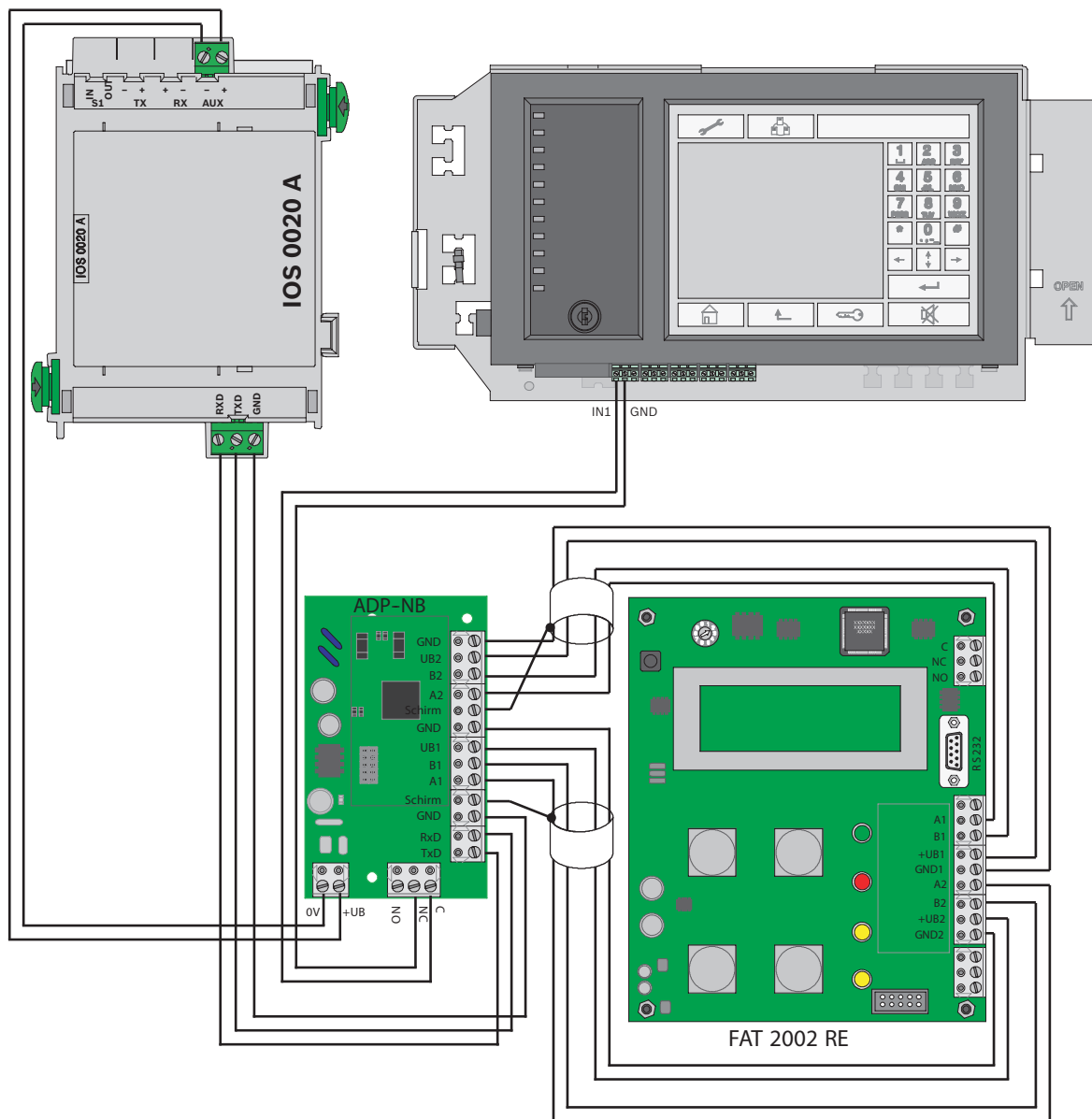


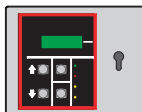
3.3.7

IOS 0020 A

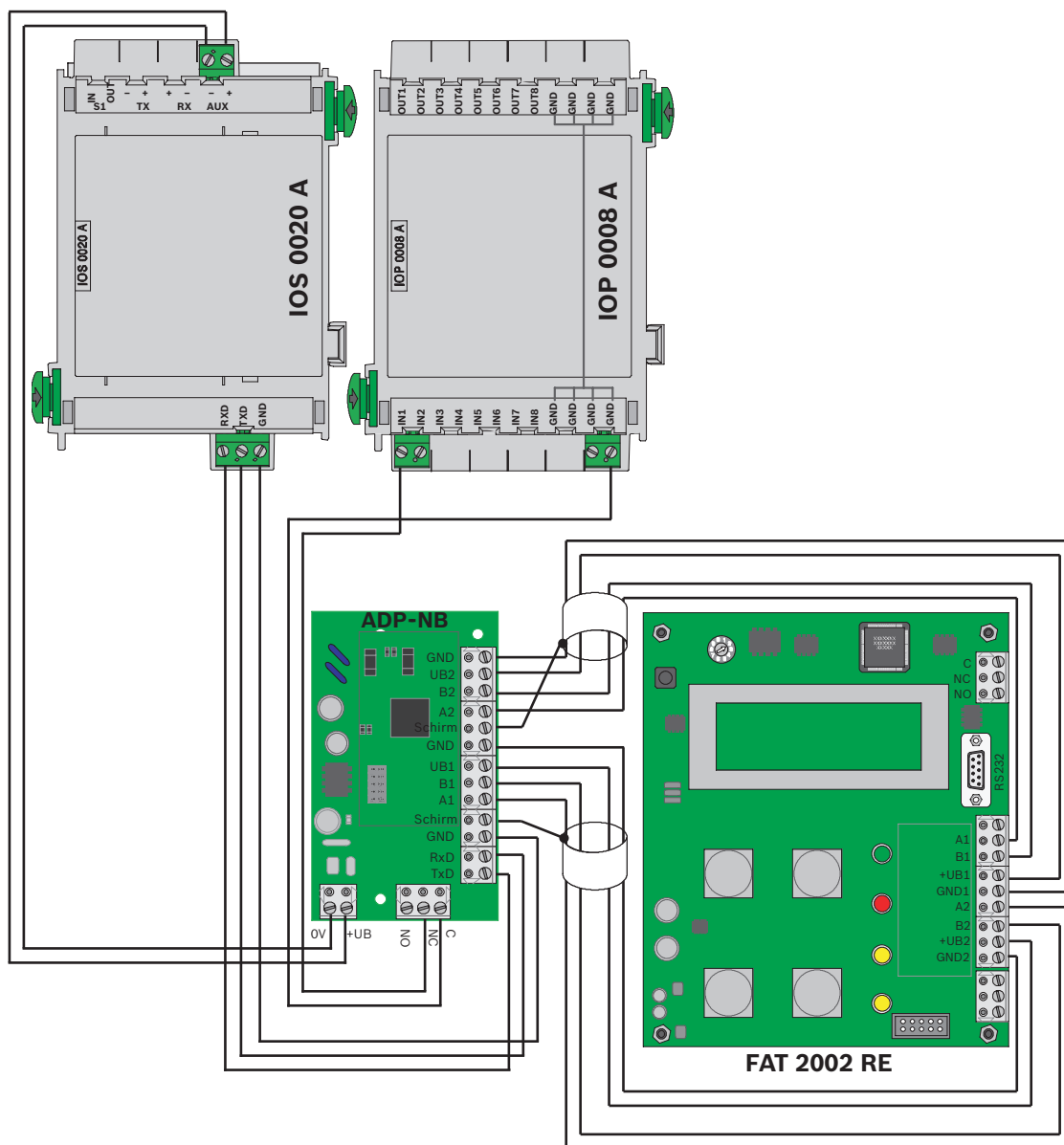


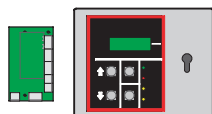
**FAT 2002 RE
ADP-NB**



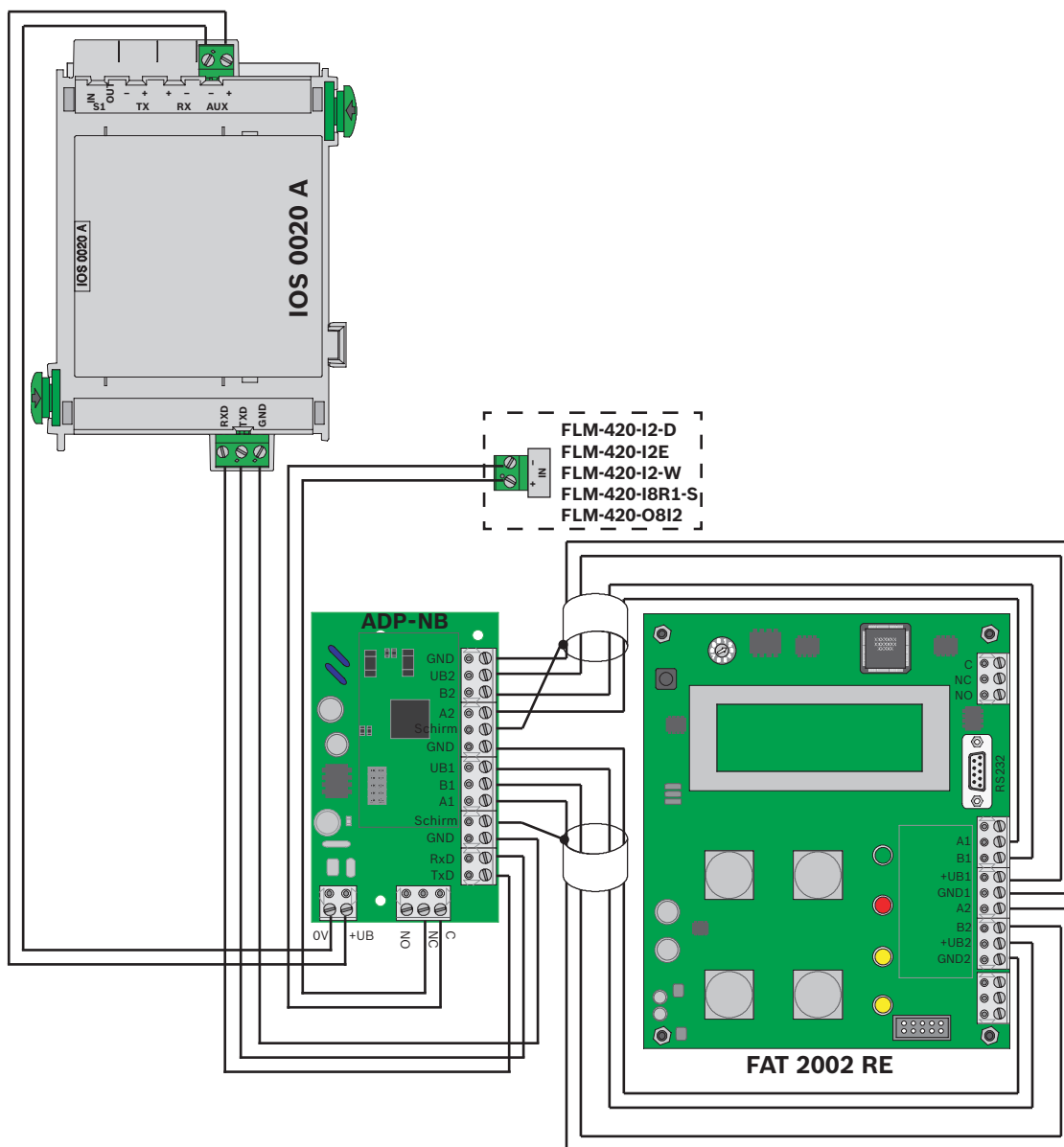


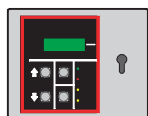
**FAT 2002 RE
ADP-NB**



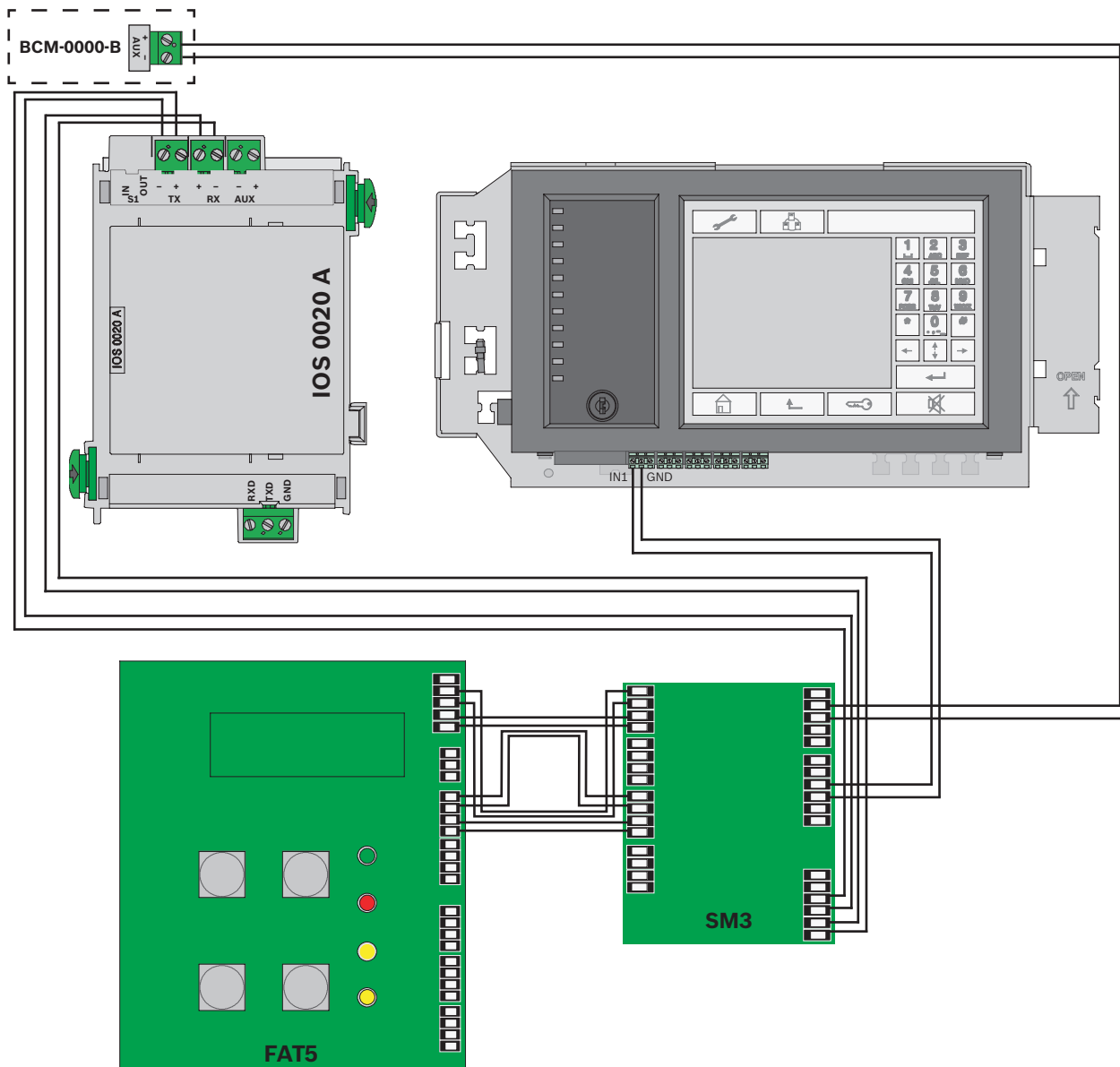


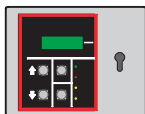
**FAT 2002 RE
ADP-NB**



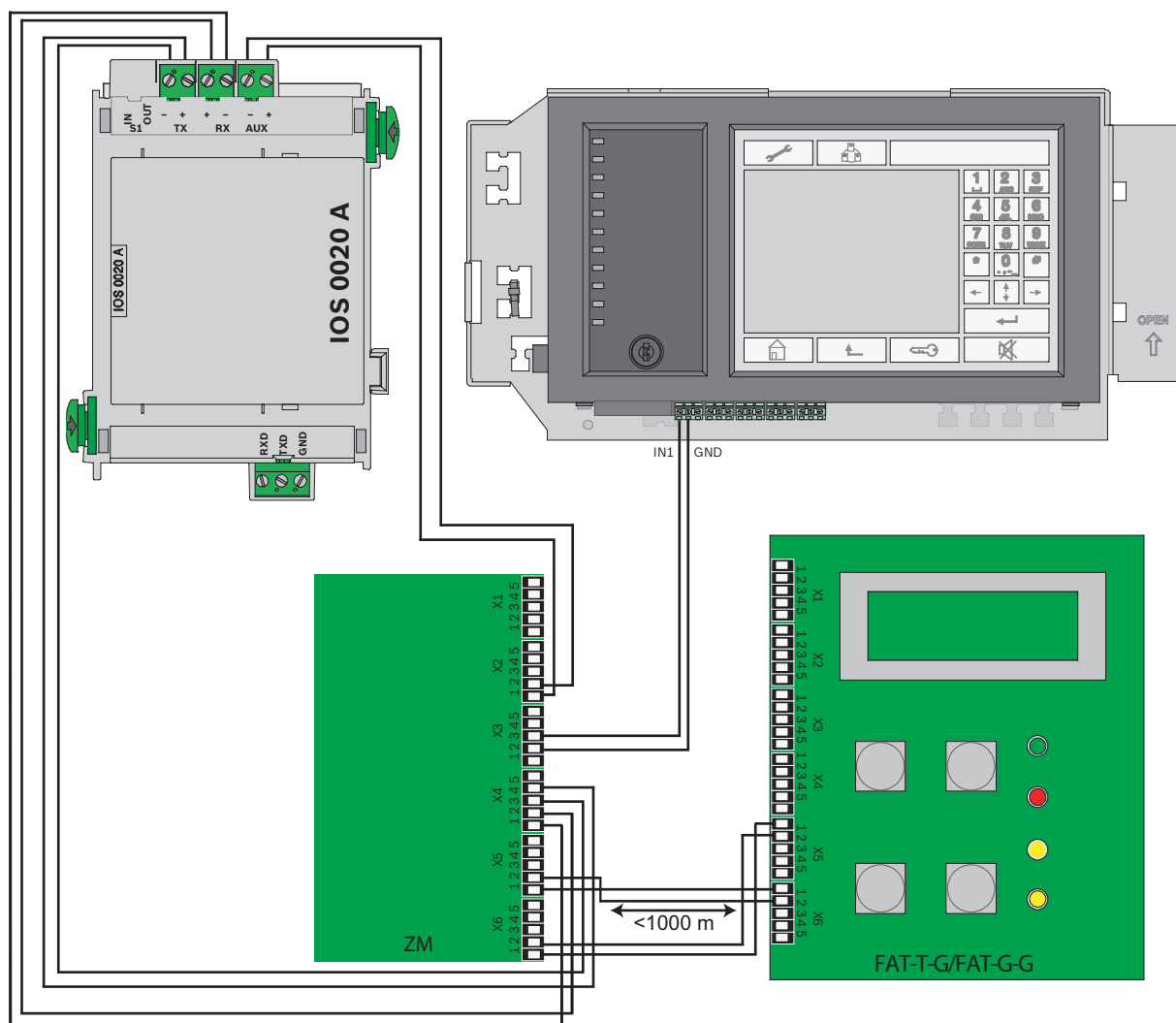


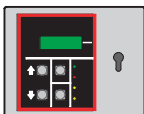
FAT5
SM3



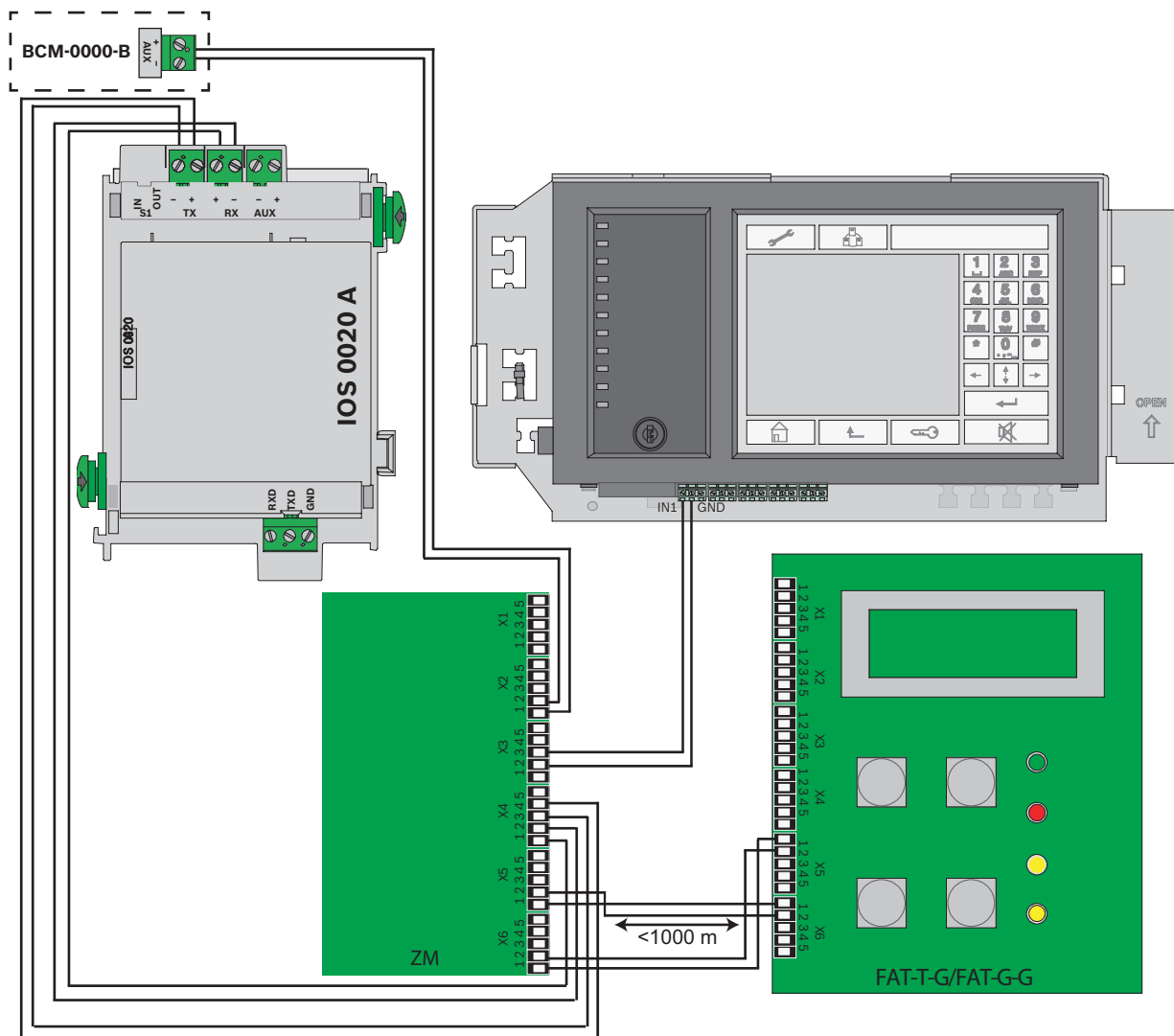


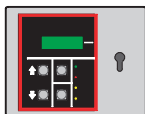
**FAT-T-G/FAT-G-G
ZM**



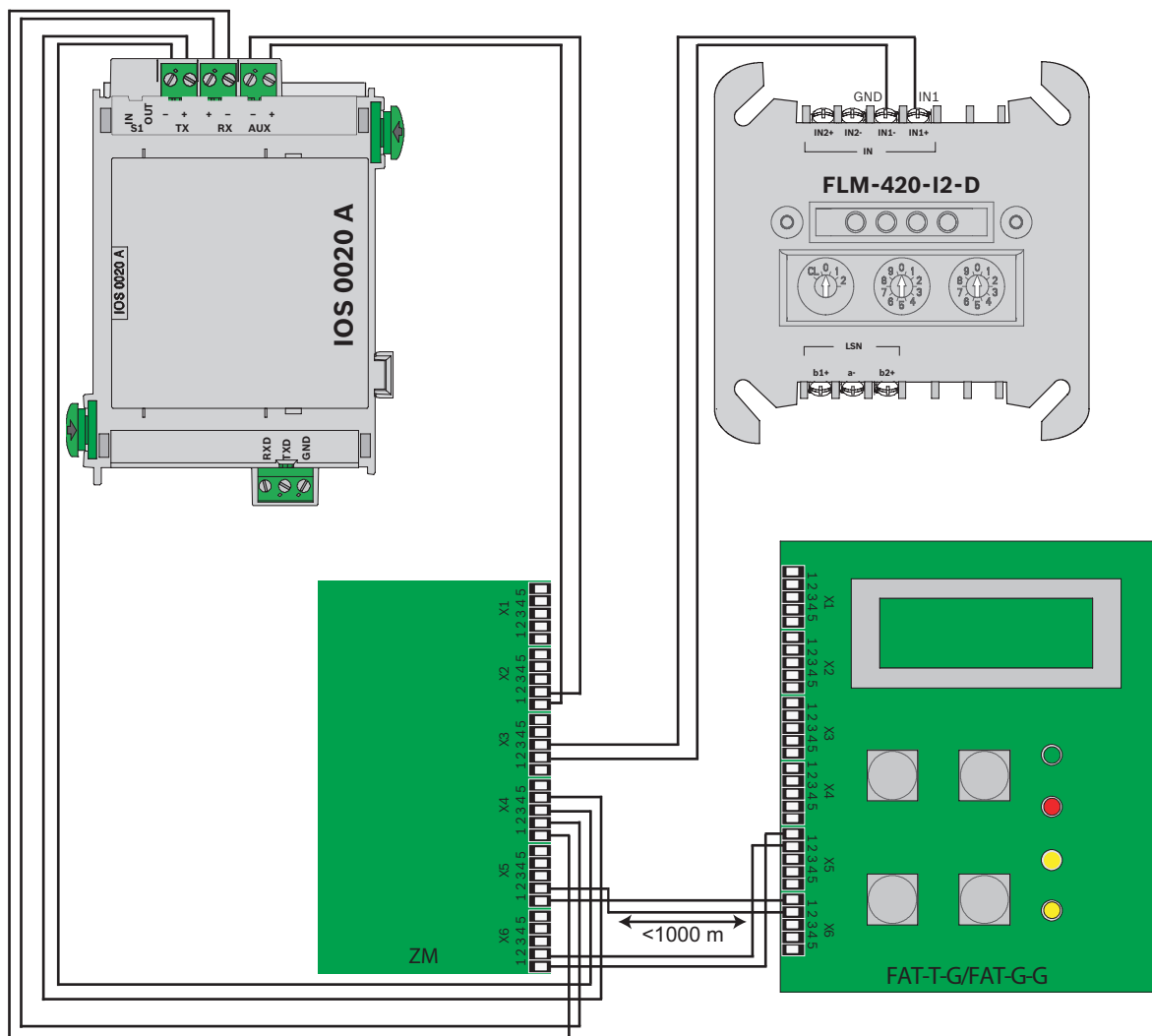


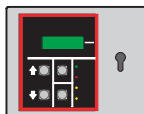
FAT-T-G/FAT-G-G
ZM



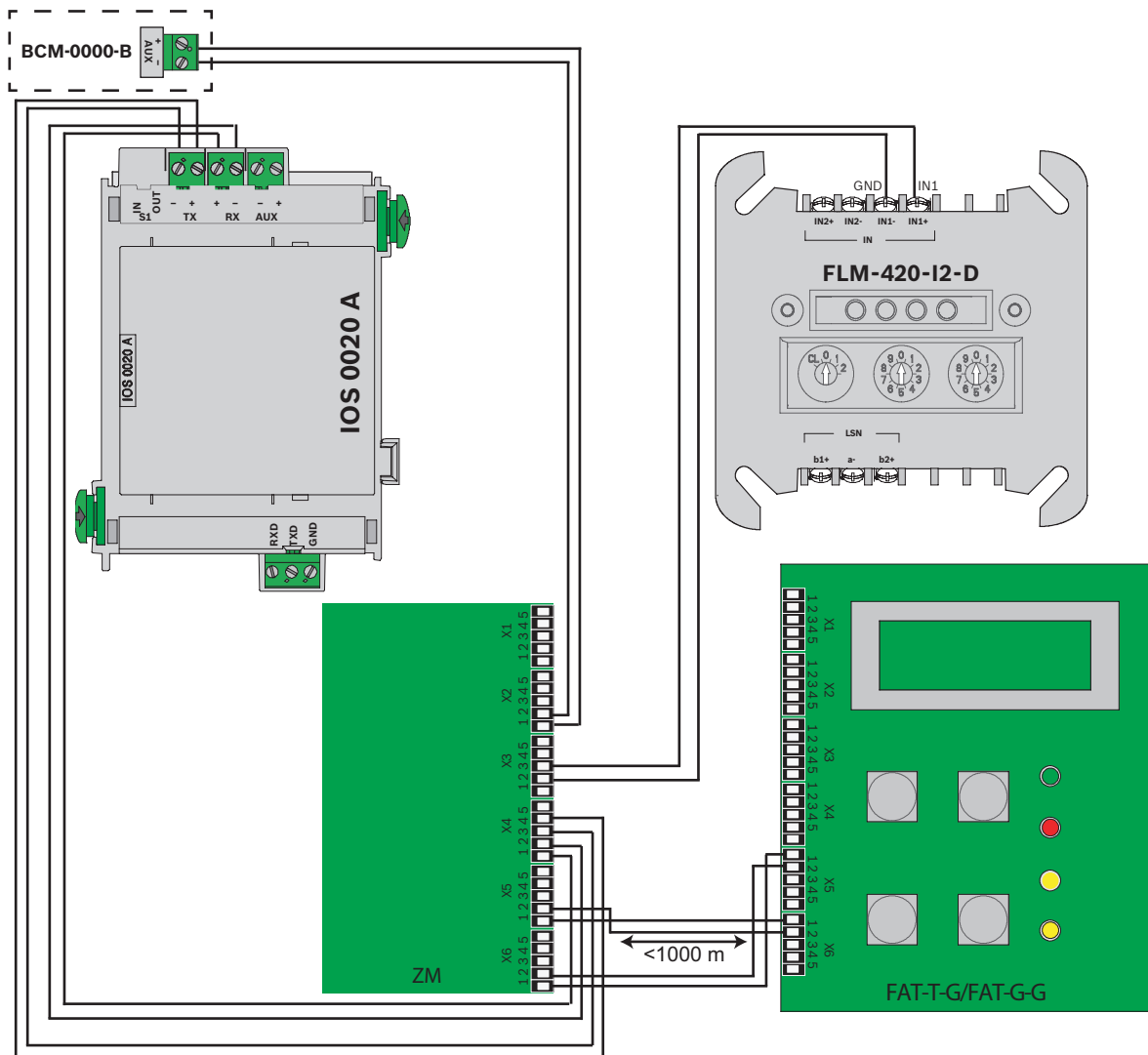


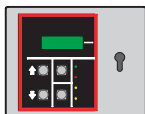
FAT-T-G/FAT-G-G
ZM



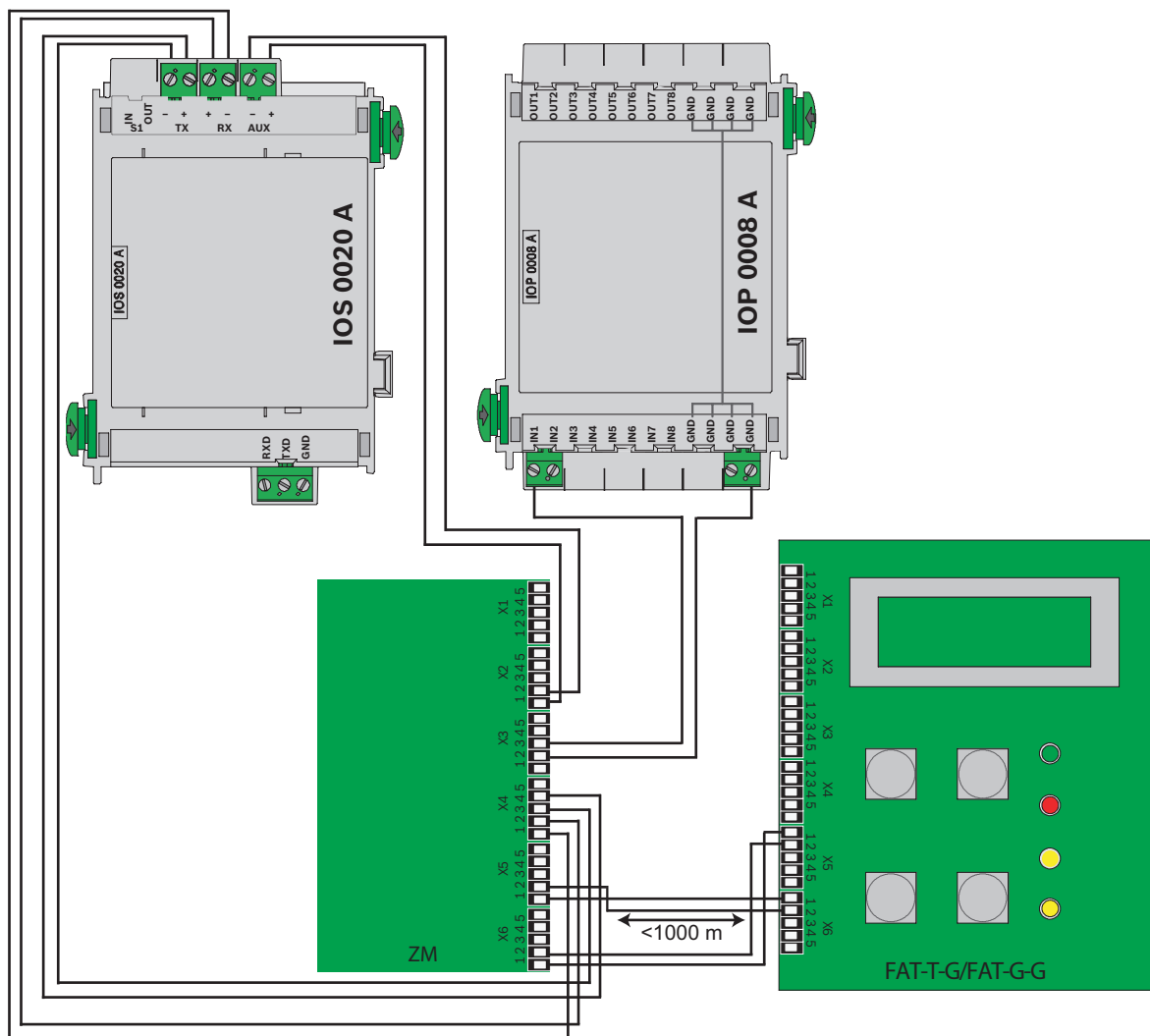


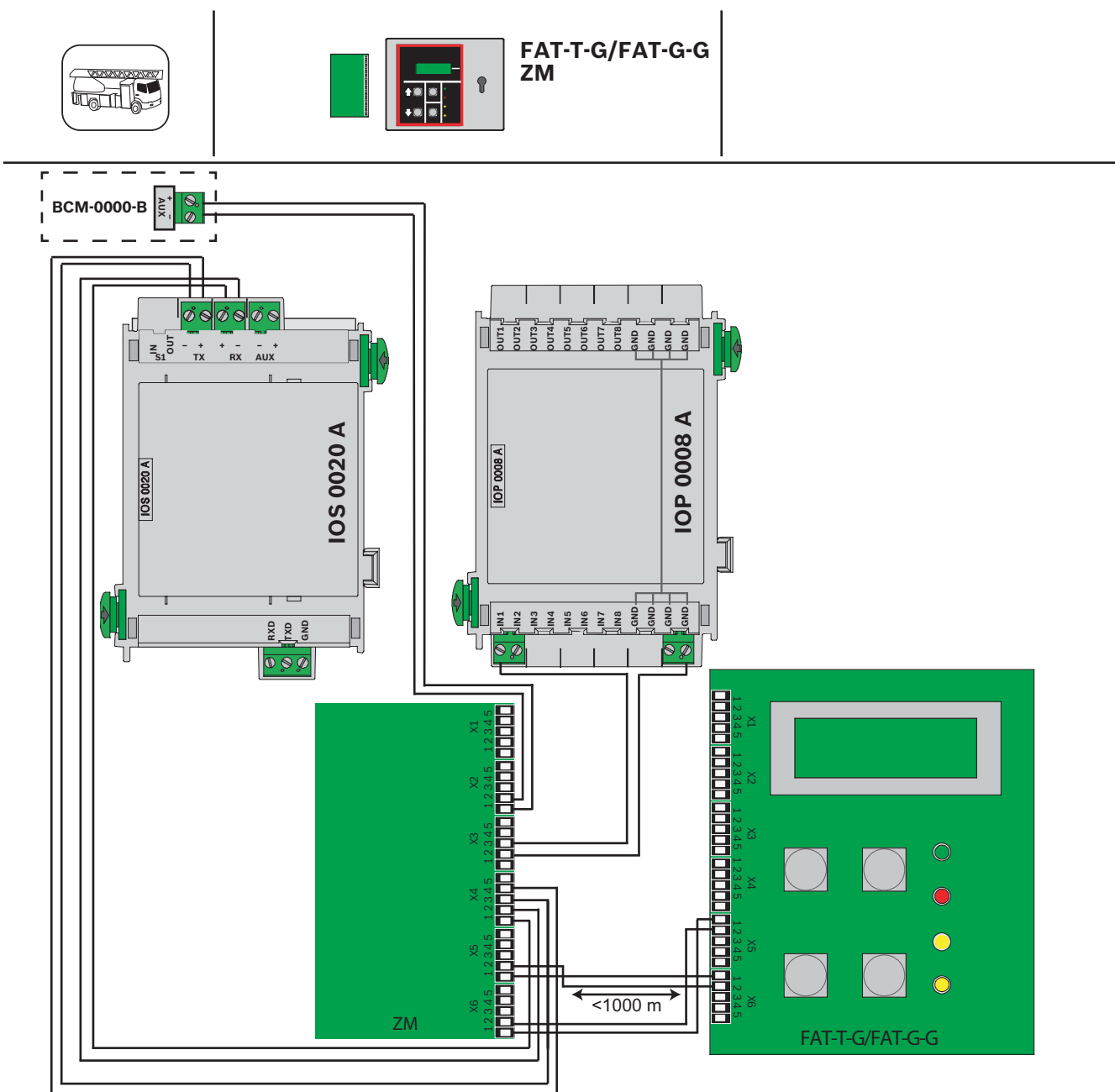
FAT-T-G/FAT-G-G
ZM

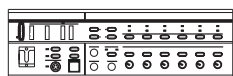
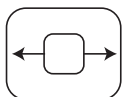




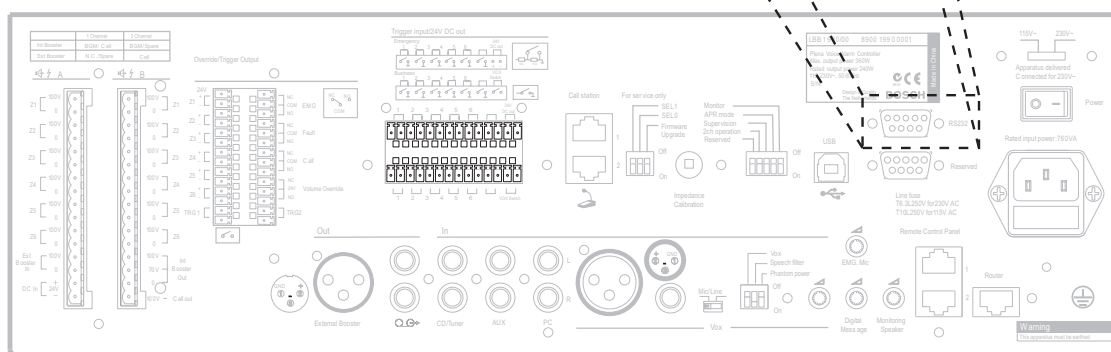
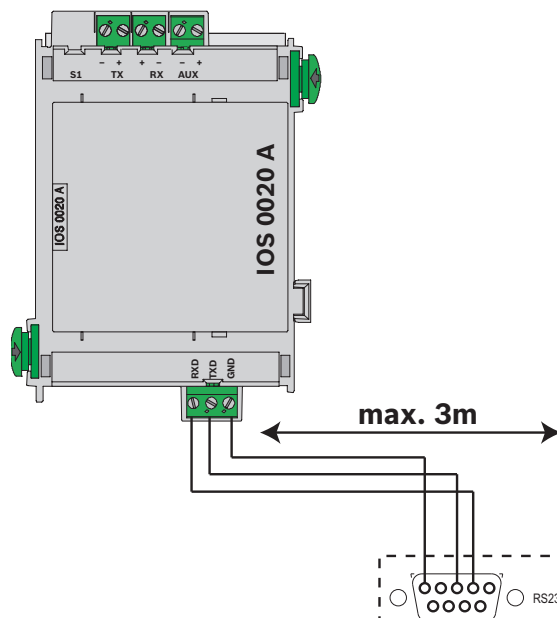
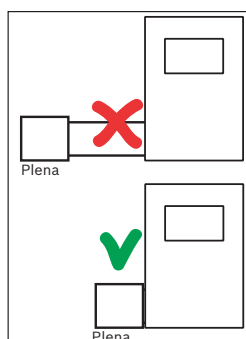
**FAT-T-G/FAT-G-G
ZM**

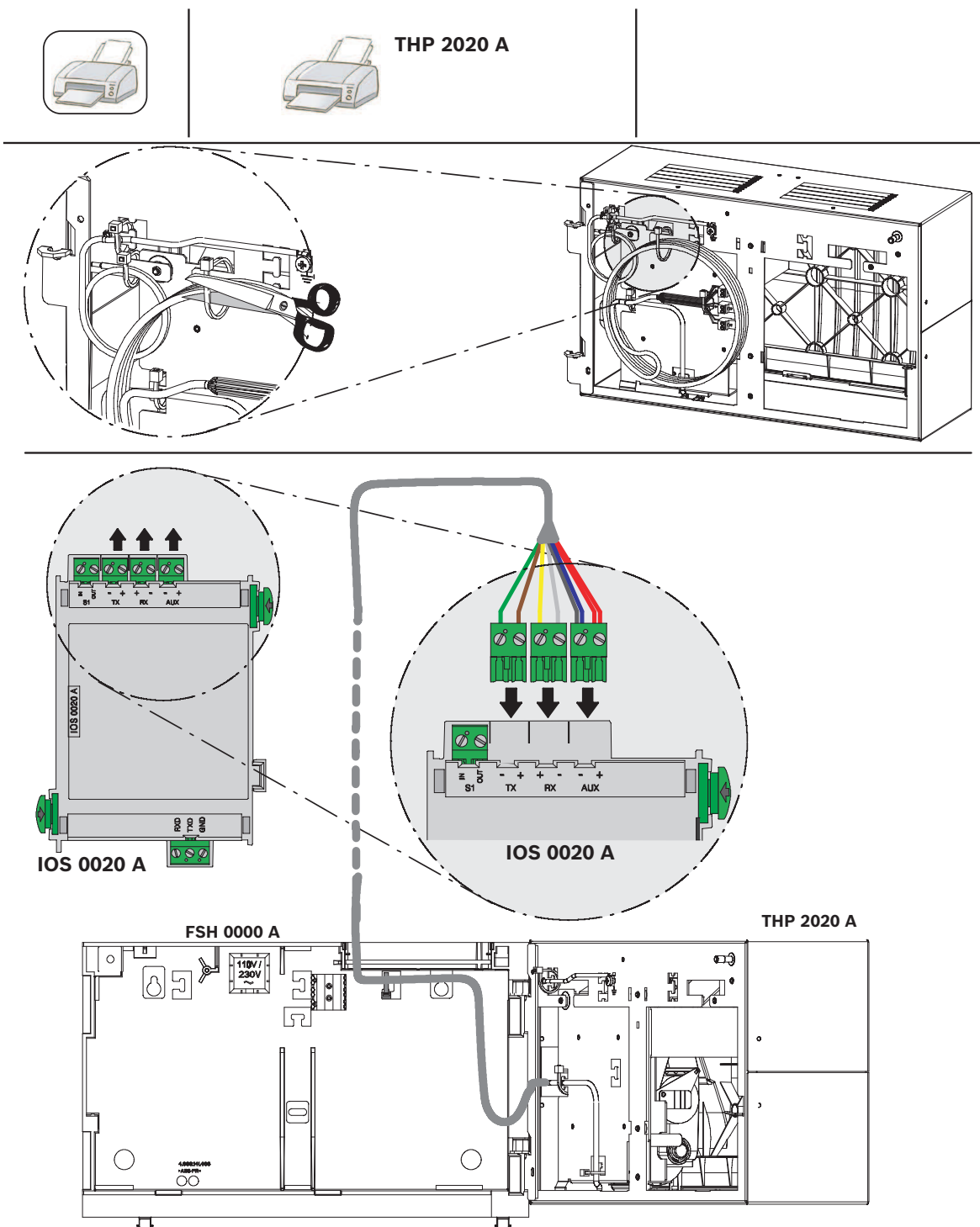


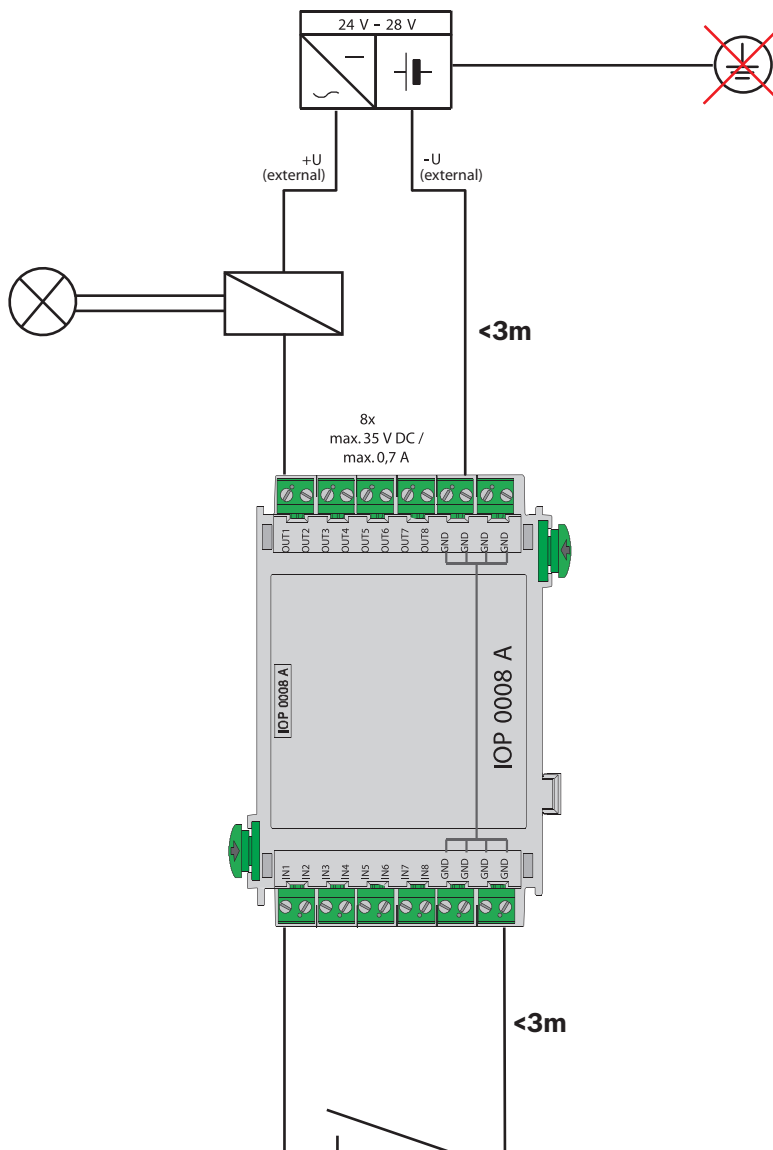
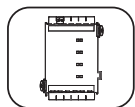




Plena





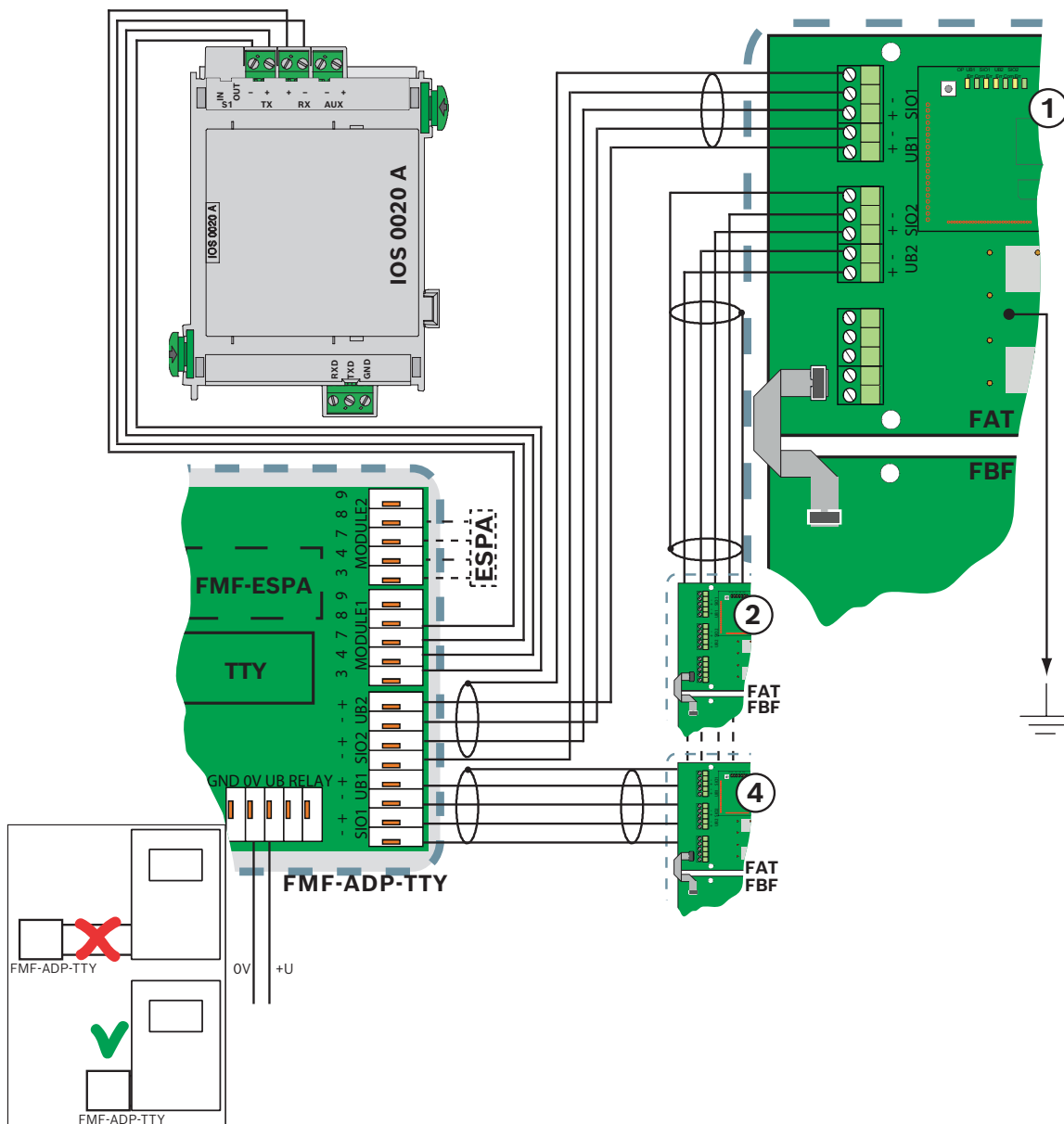




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489

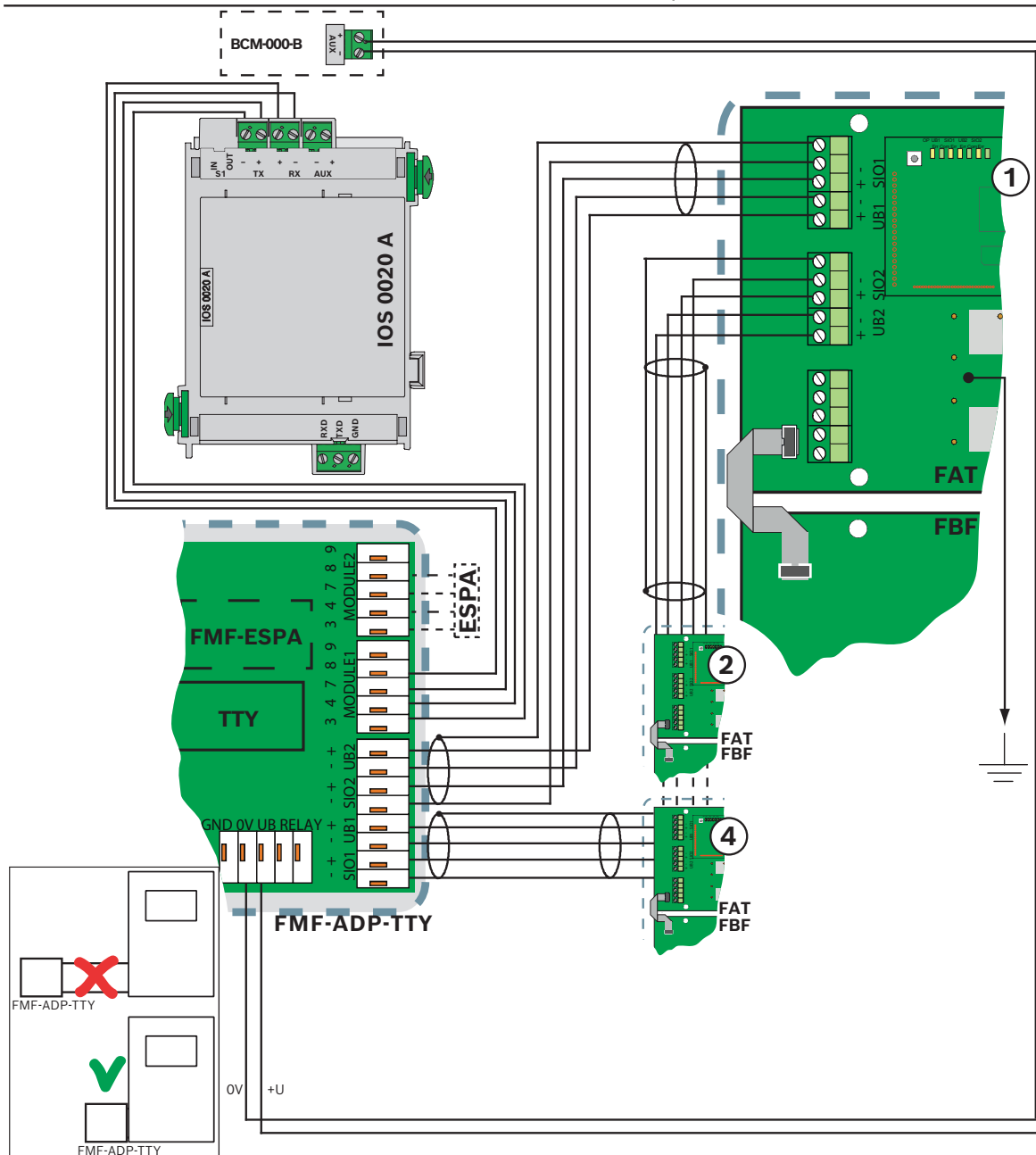


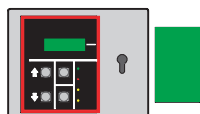


FAT4000 FBF4000 ADP4000

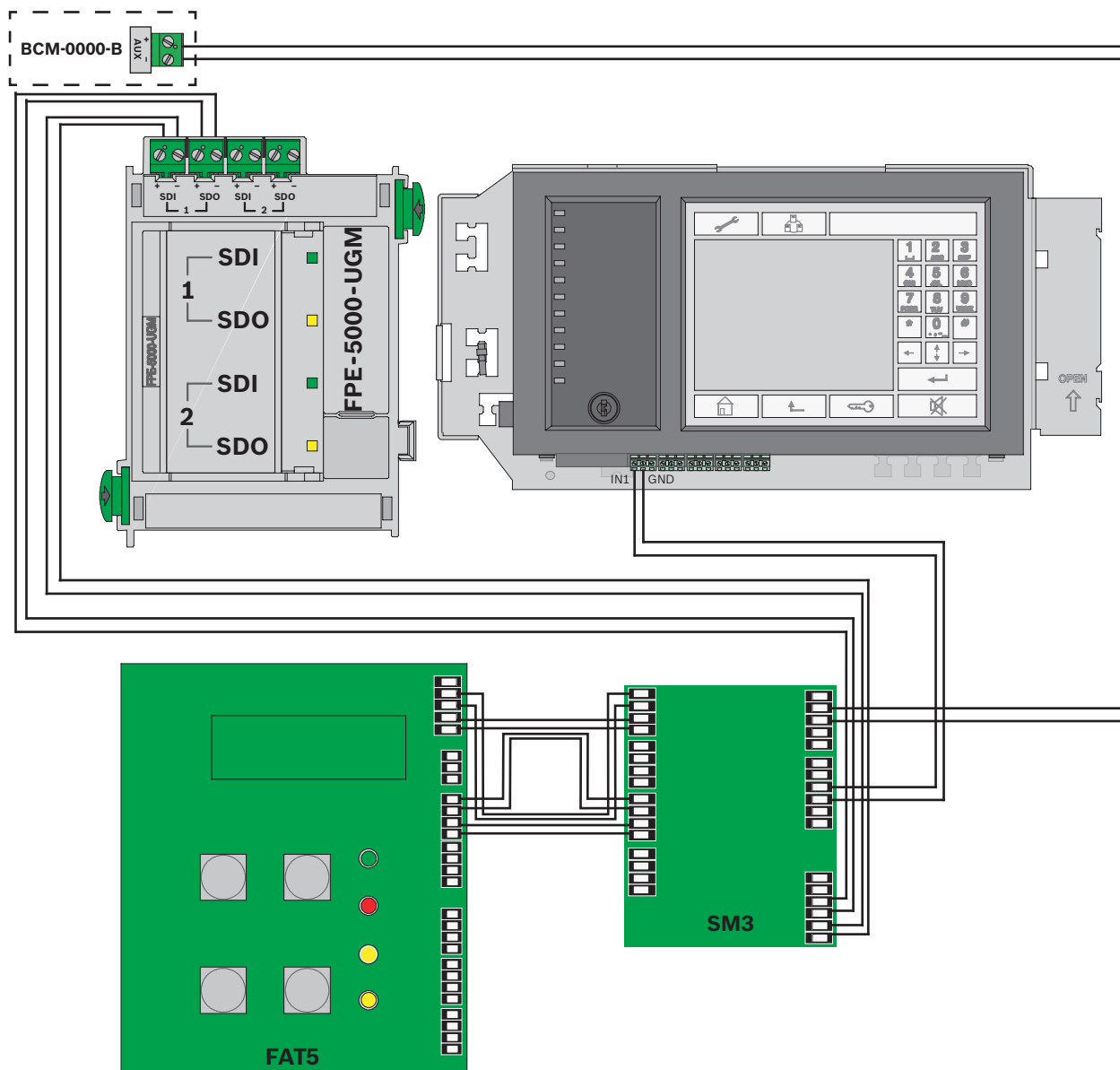
FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

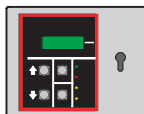
ELS VdS 2489



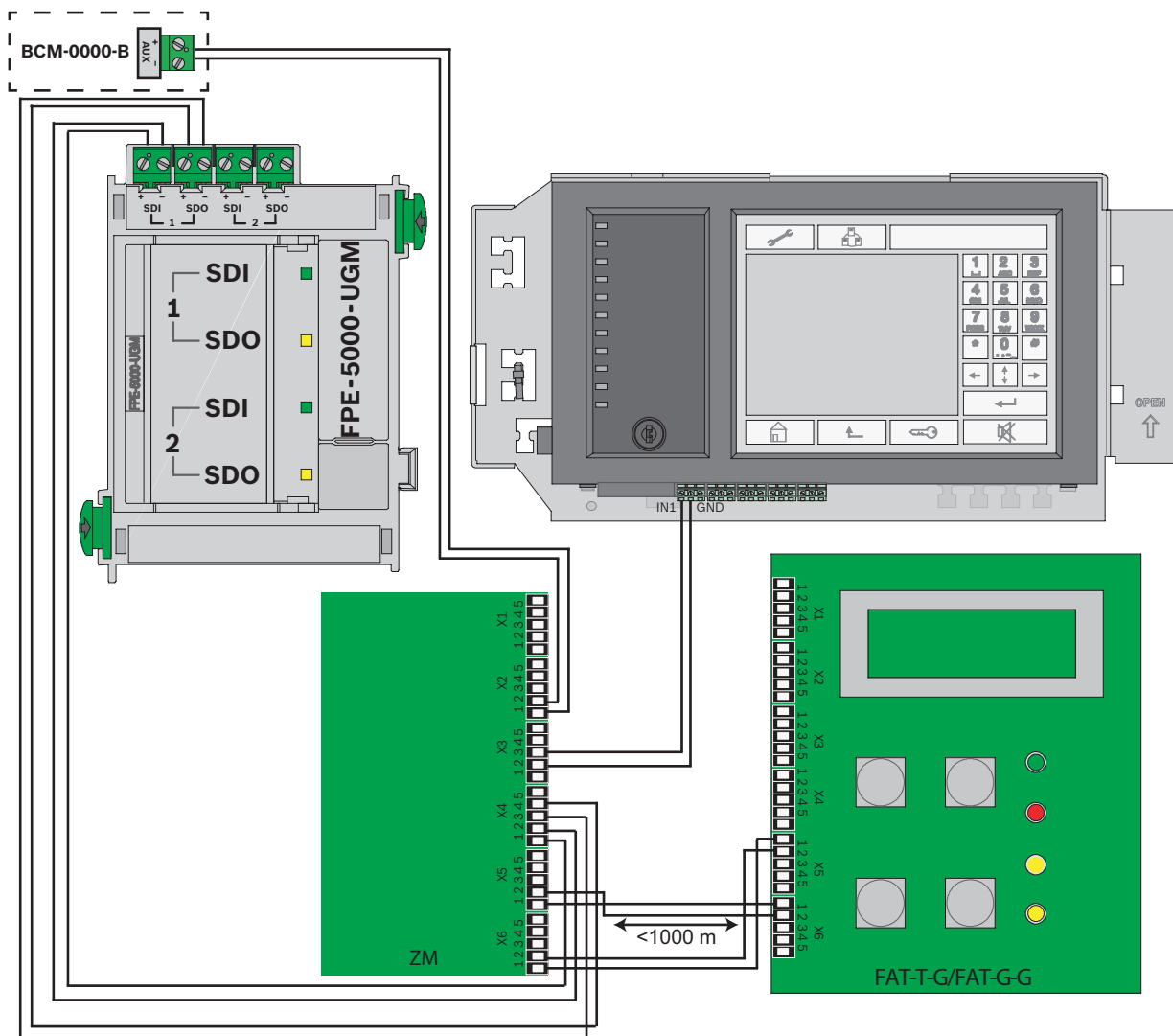


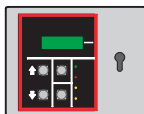
FAT5
SM3



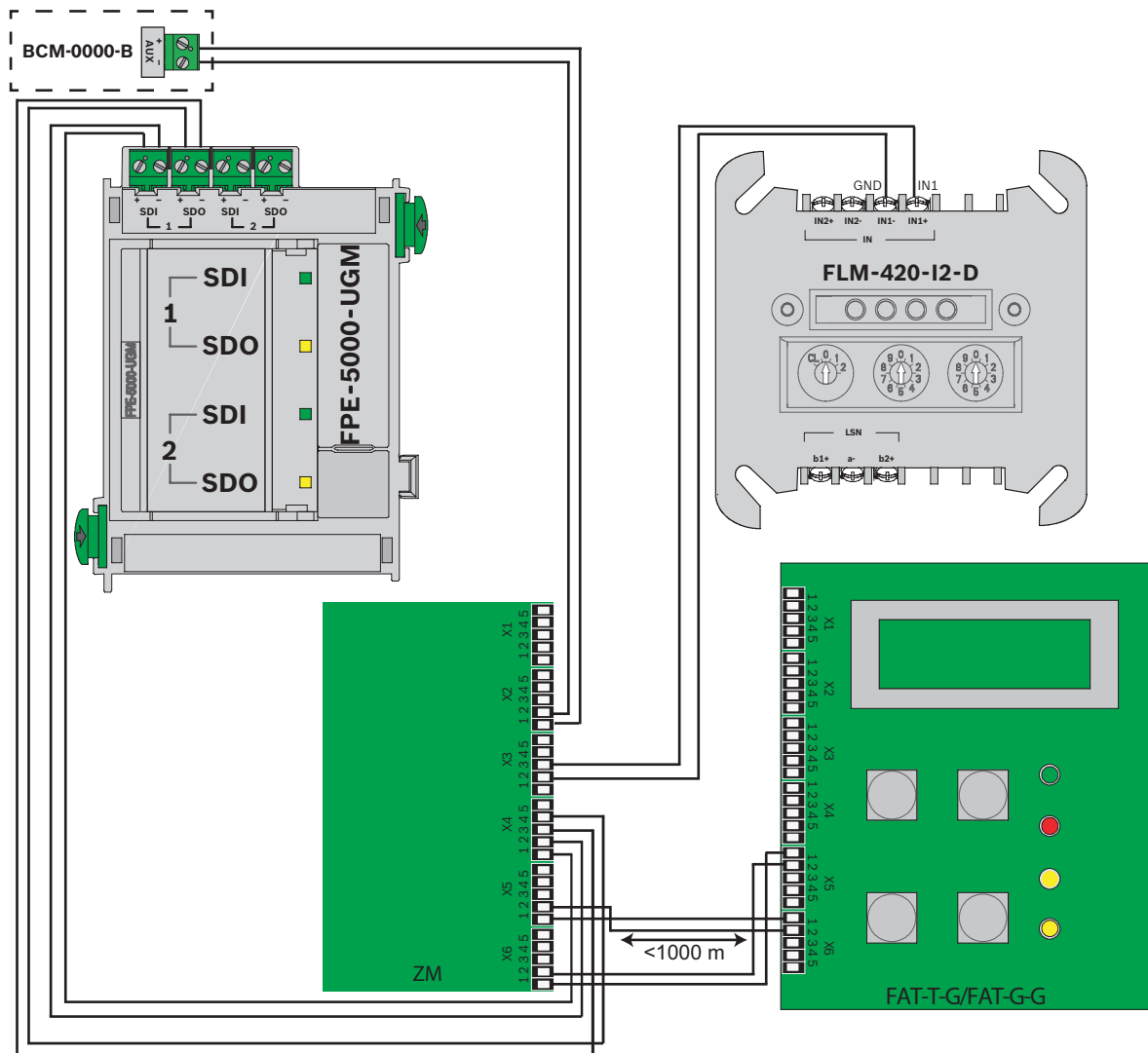


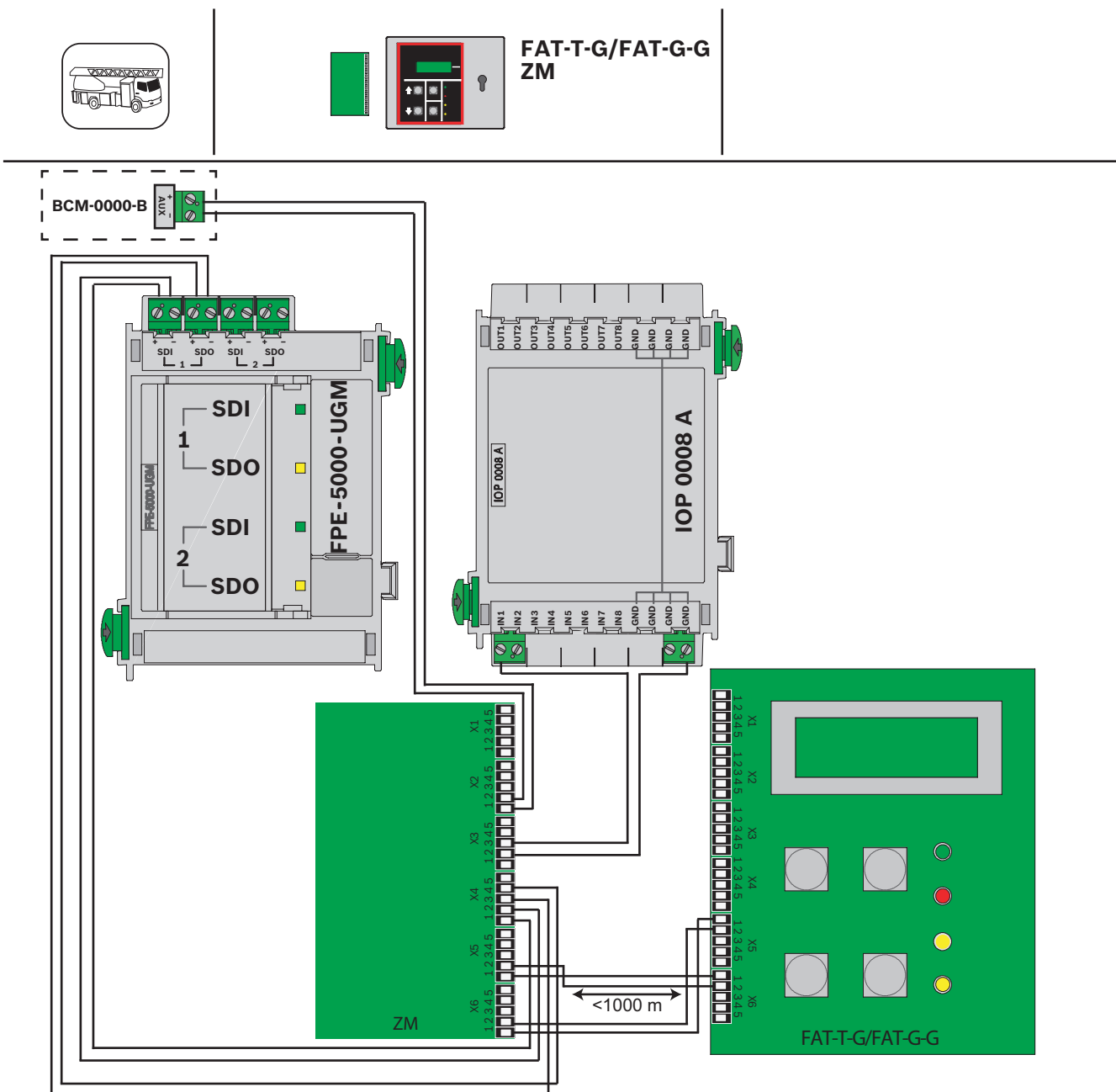
FAT-T-G/FAT-G-G
ZM





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





3.4 Moduły interfejsu



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

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

FLM-420-RLE-S, Strona 176

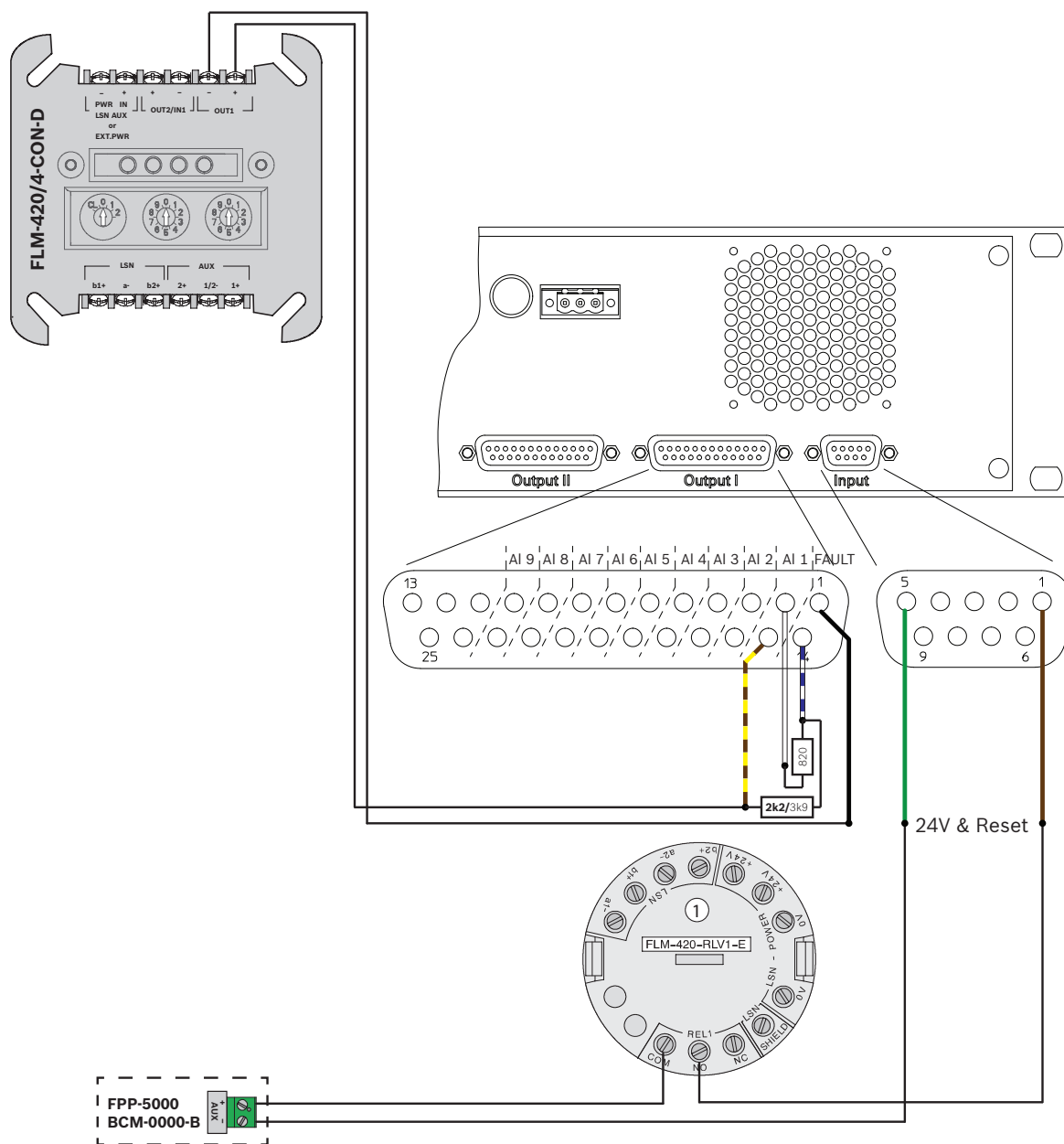
FLM-420-RLV1-E, Strona 177

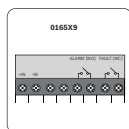
FLM-420-RLV8-S, Strona 178

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

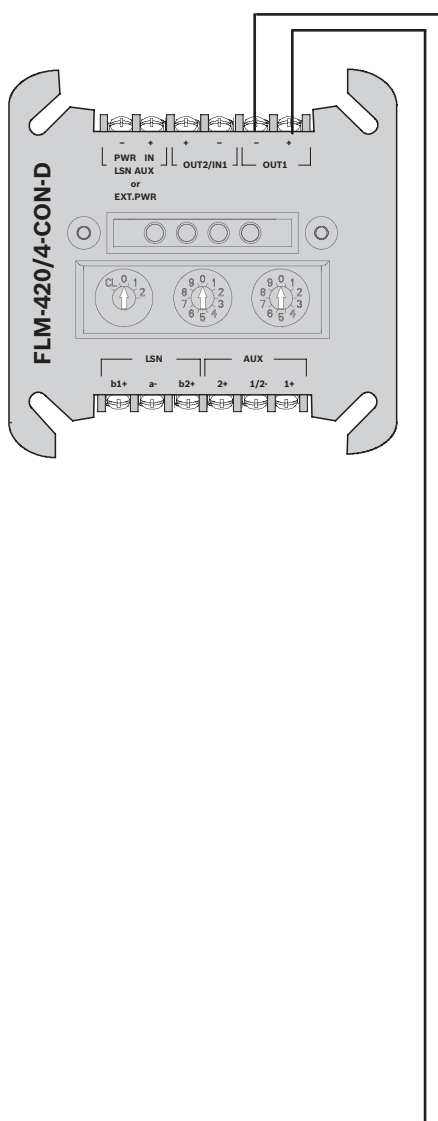
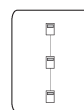


N4387A

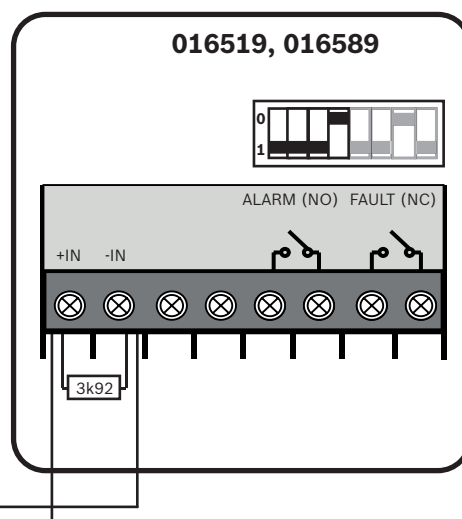


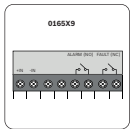


016519, 016589 IR3 Flame Detector

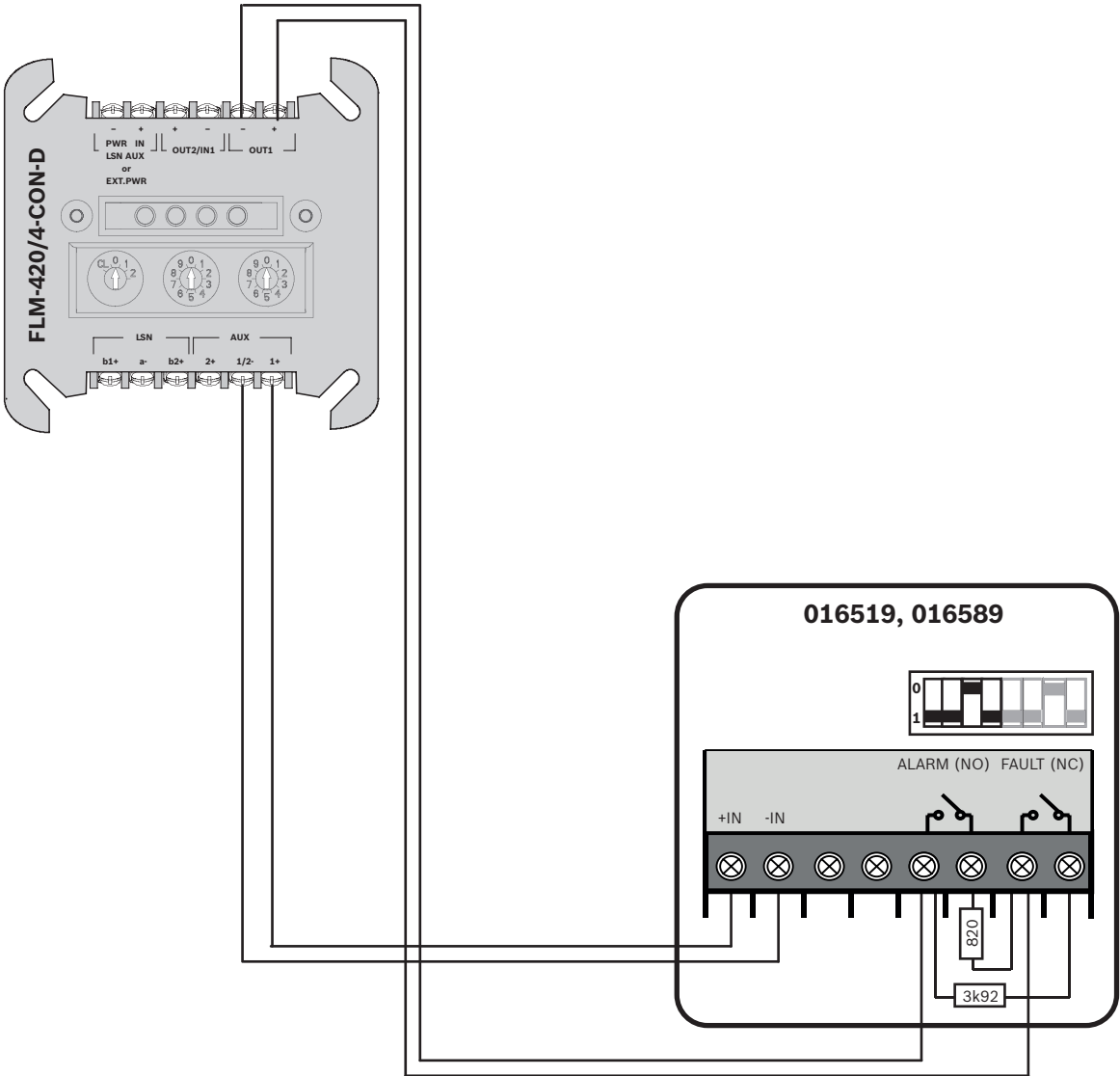
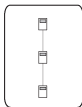


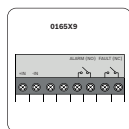
max. 1 x 0165X9



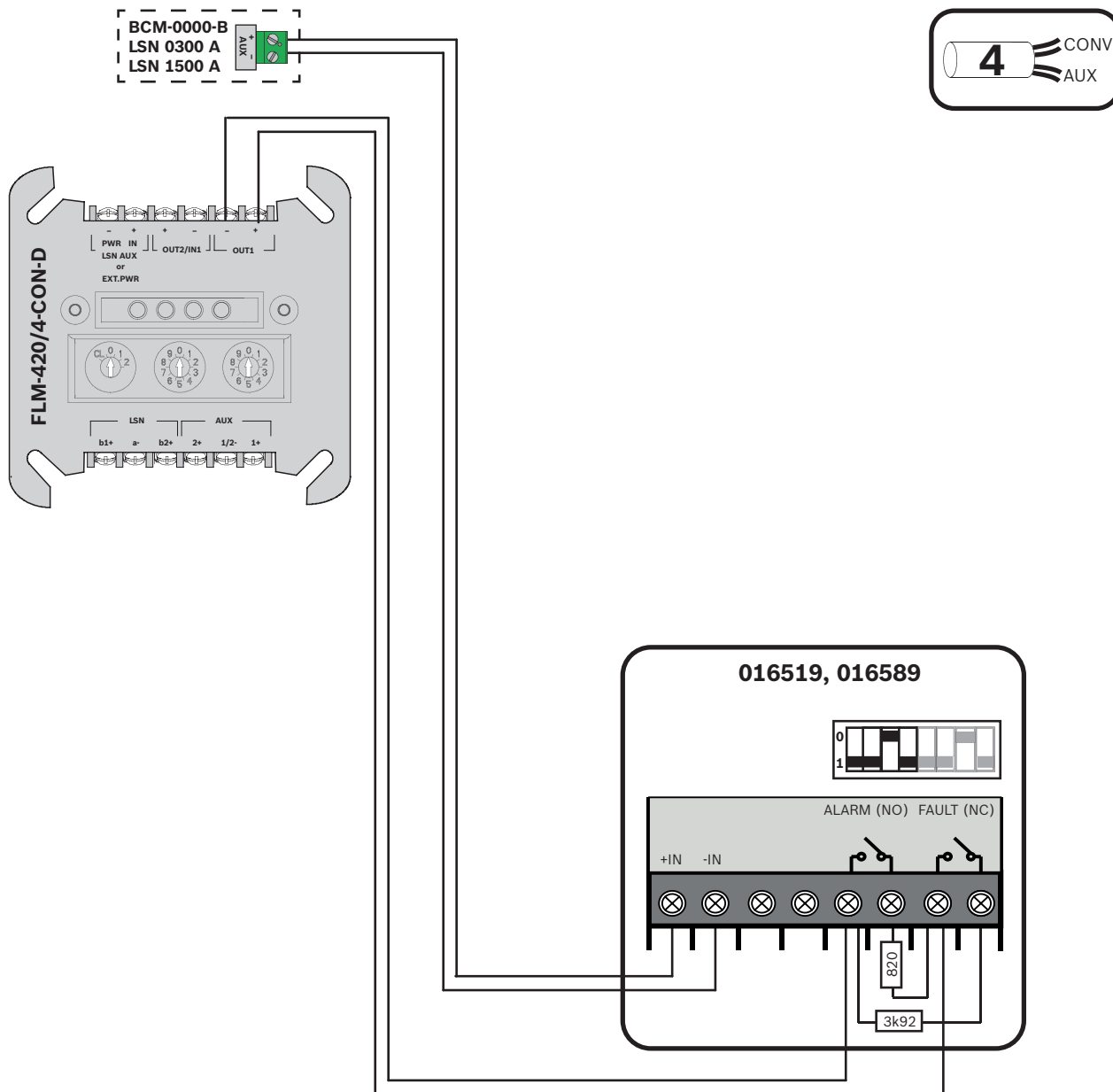
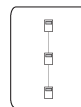


016519, 016589
IR3 Flame Detector



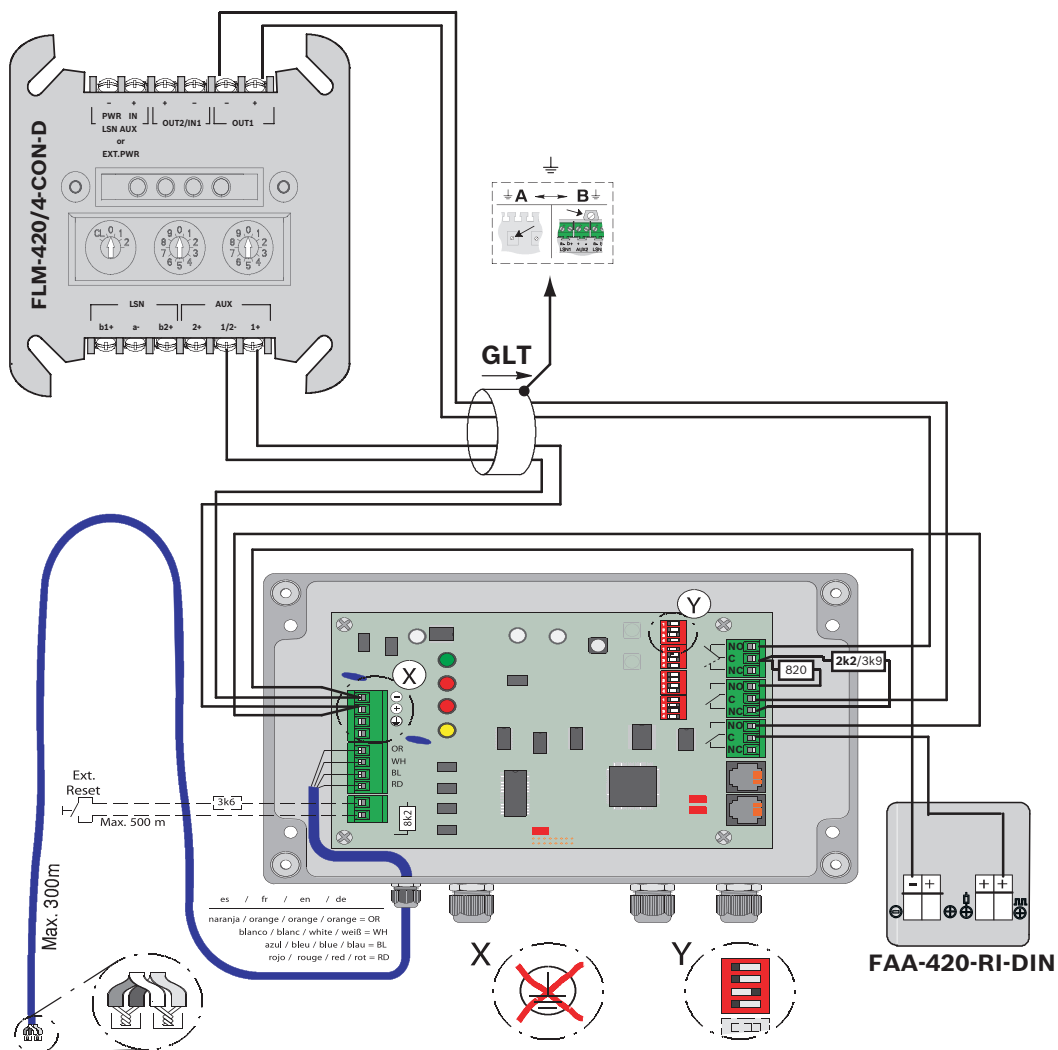
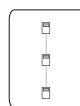


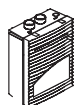
016519, 016589 IR3 Flame Detector





FCS-LWM-1

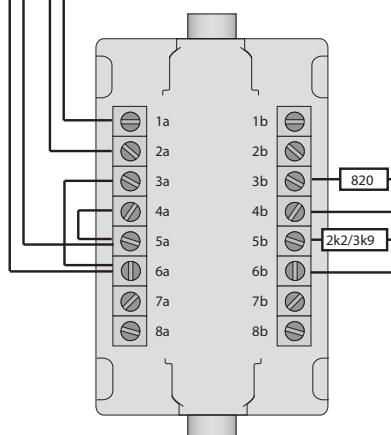
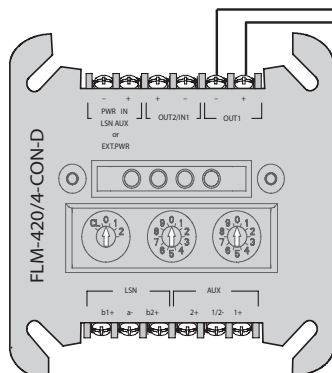
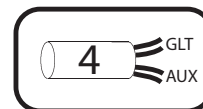


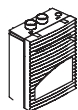


FCS-320-TM Series

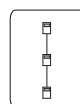


BCM-0000-B
LSN 0300 A
LSN 1500 A

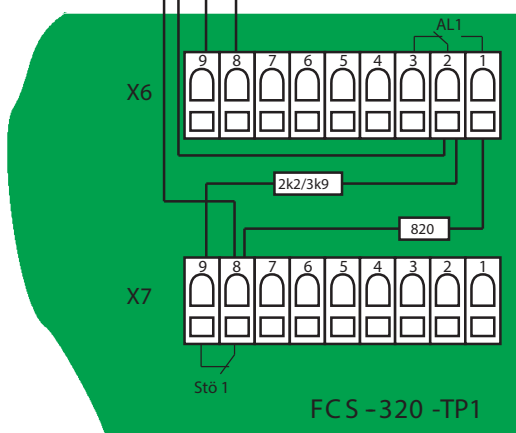
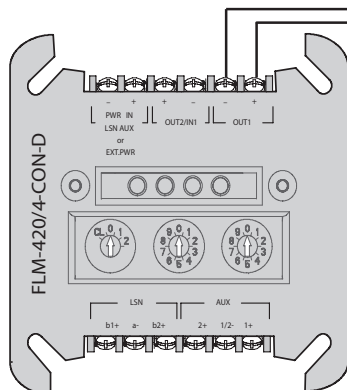
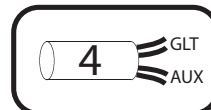


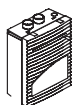


FCS-320-TP Series

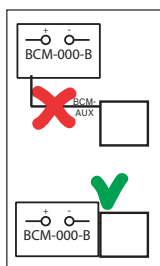
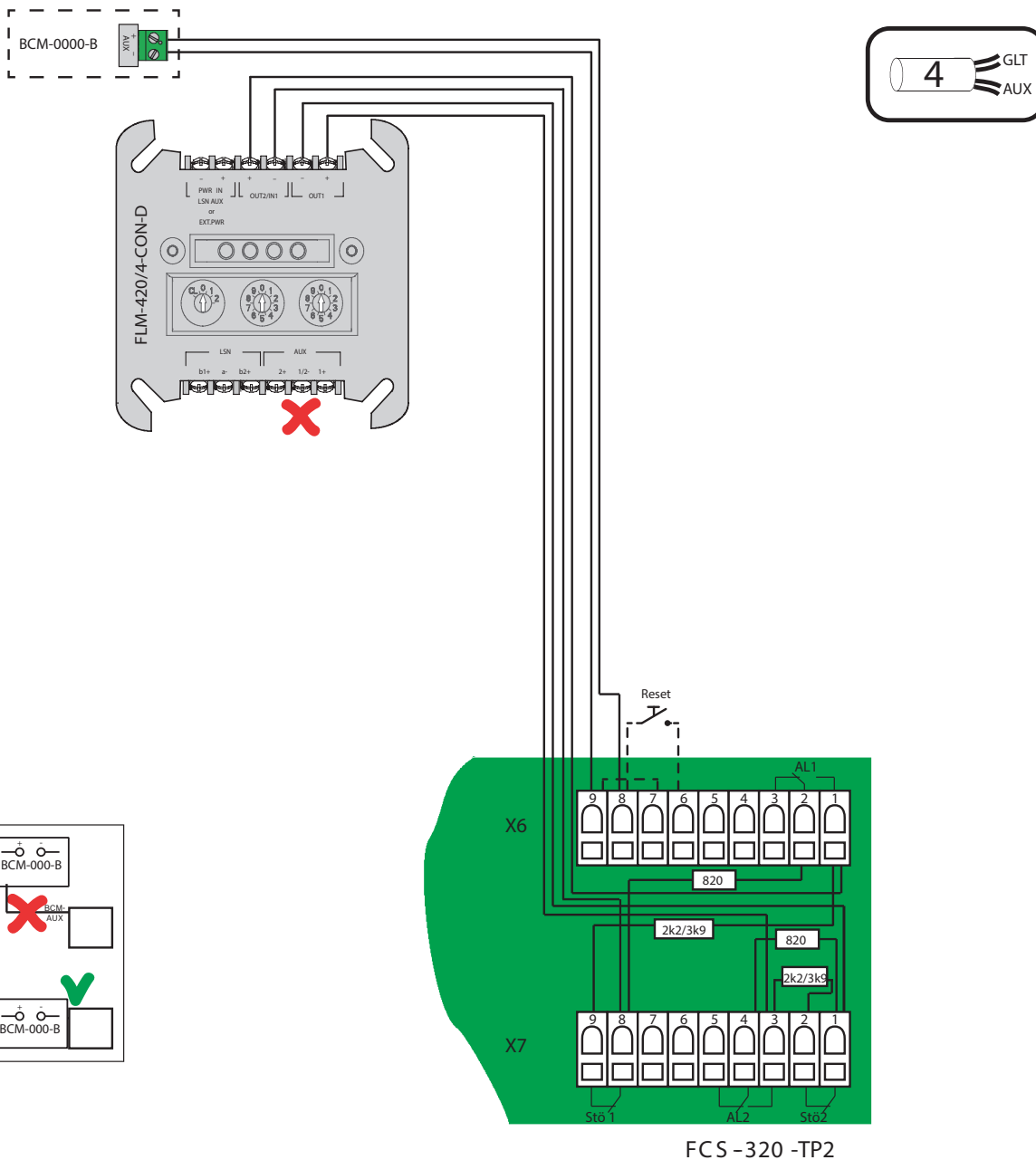


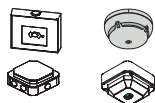
BCM-0000-B
LSN 0300 A
LSN 1500 A



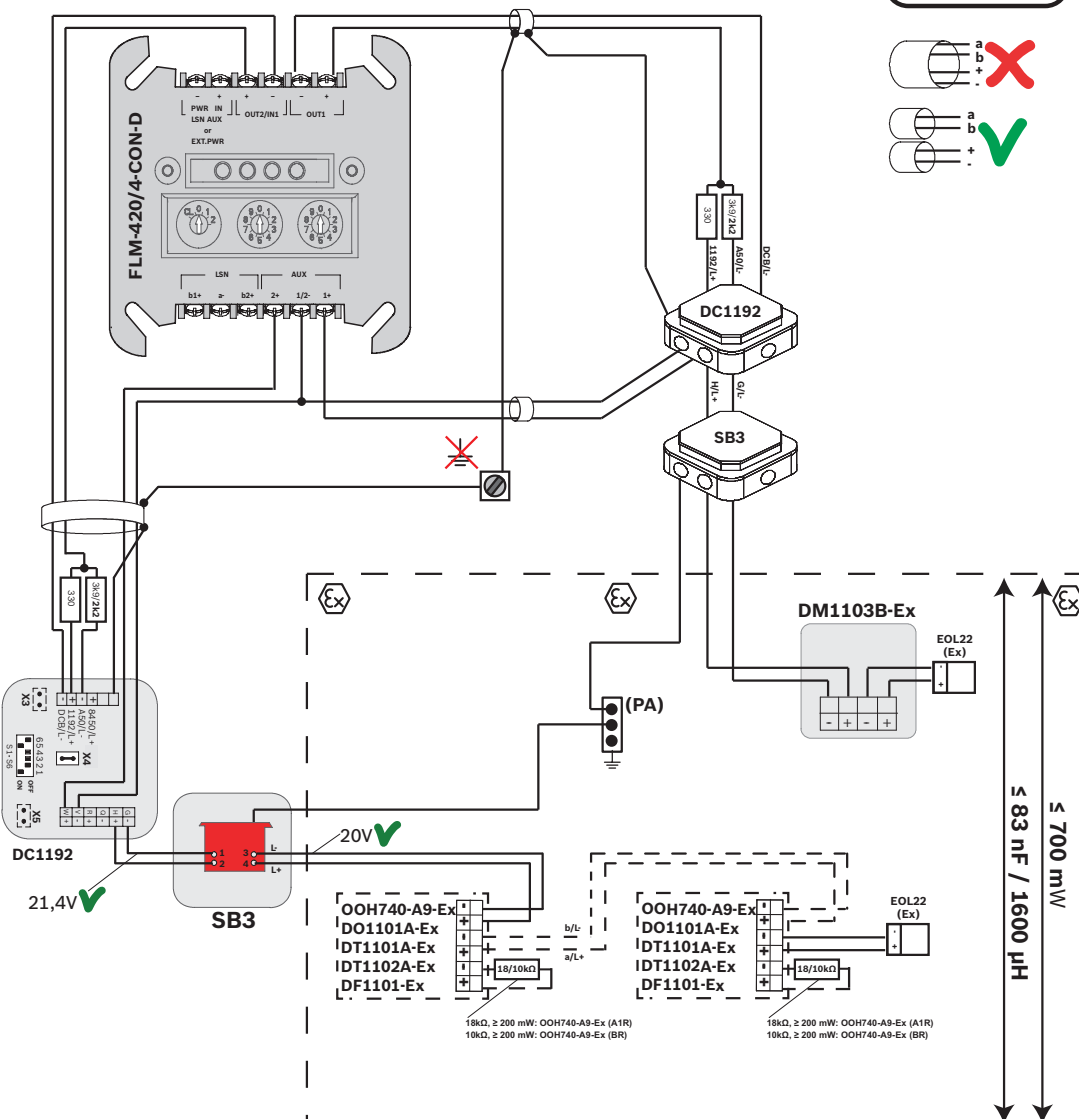
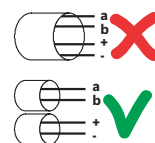


FCS-320-TP Series



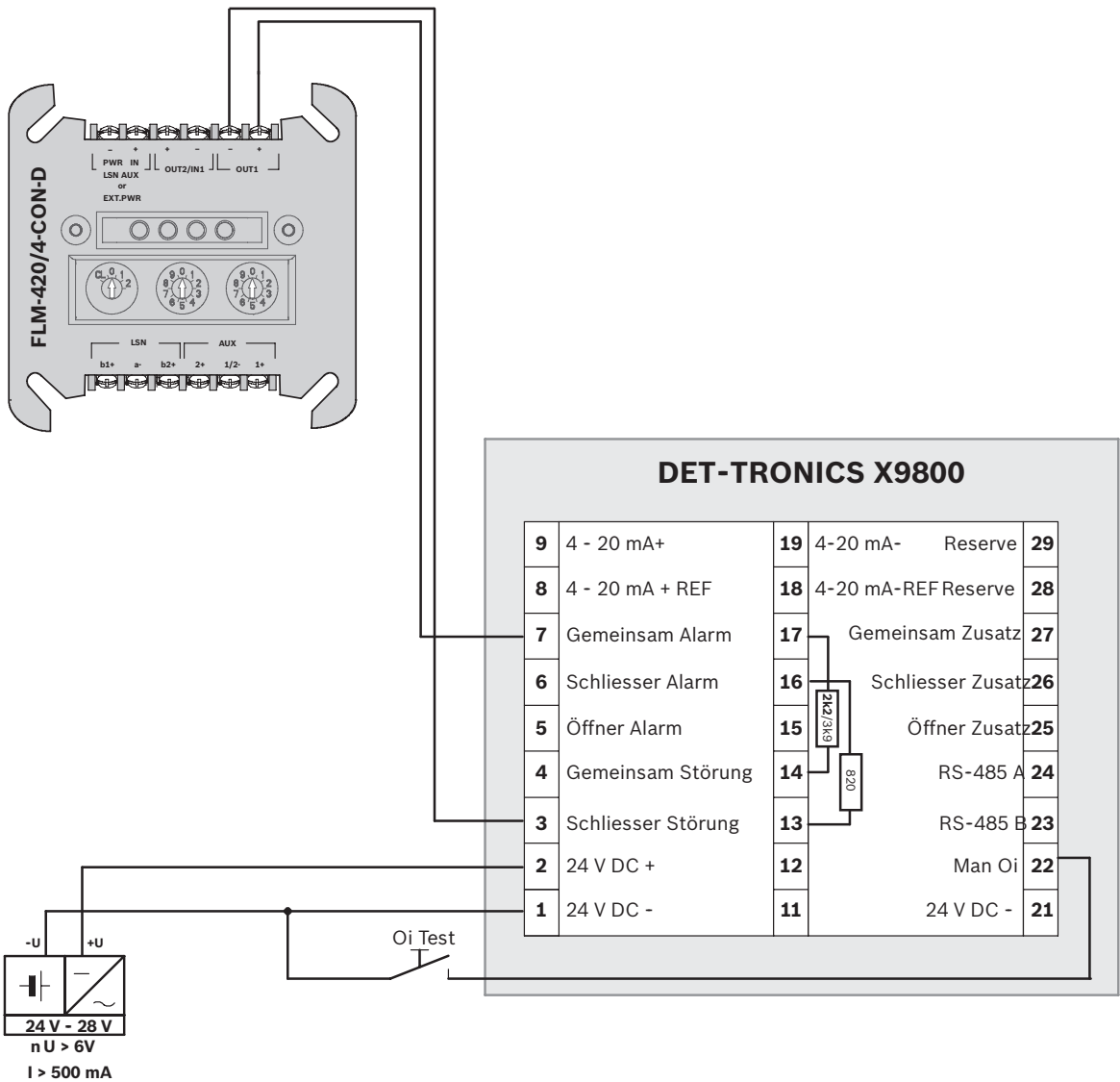
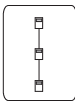


DC1192, SB3
OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex/DT1102A-Ex
DF1101-Ex
DM1103B-Ex



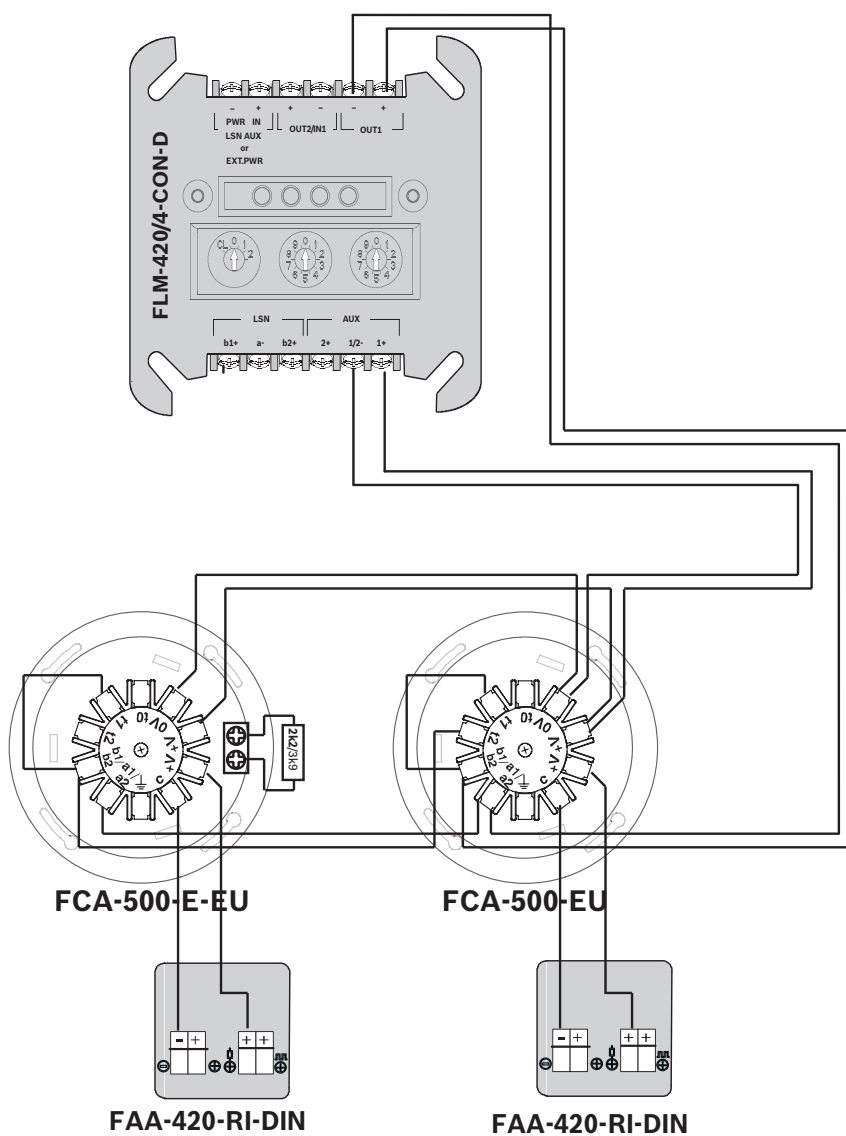


DET-TRONICS X9800



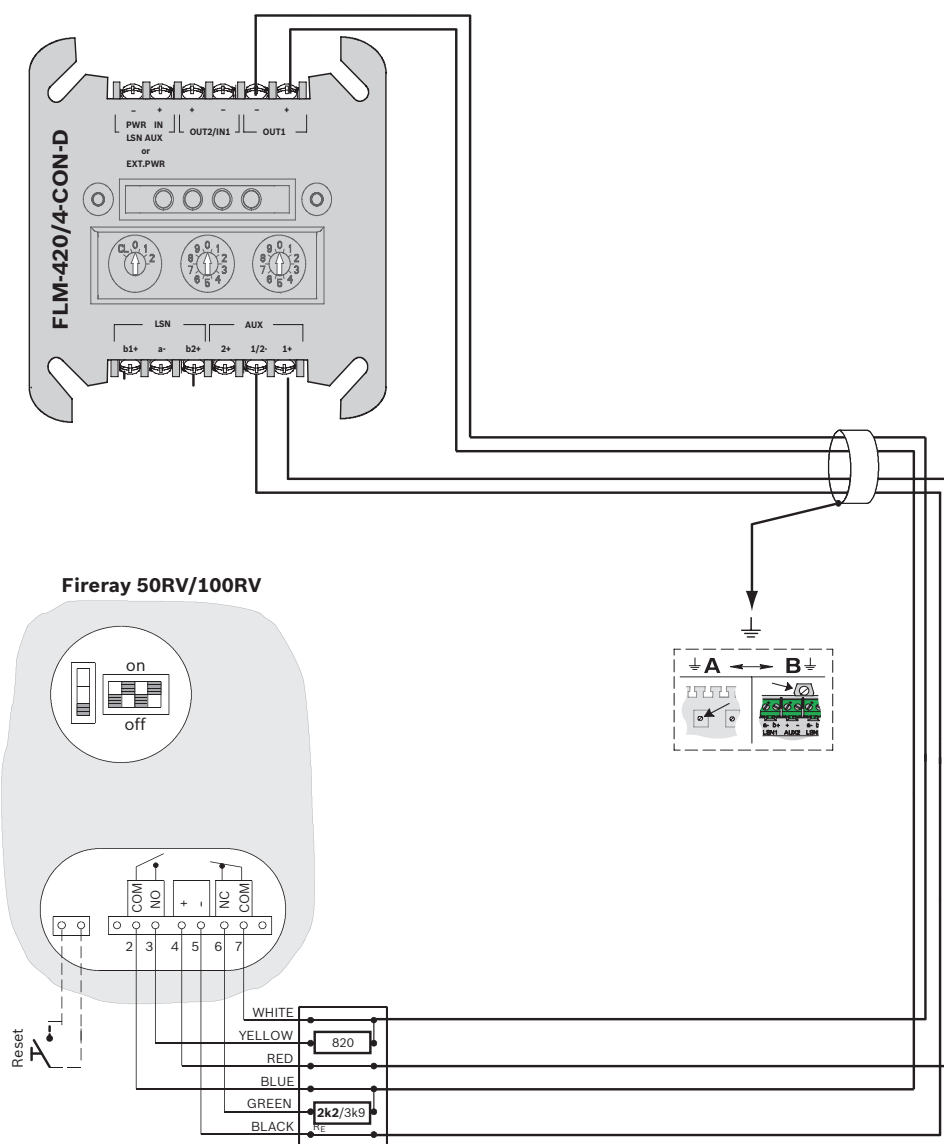


FCP-500





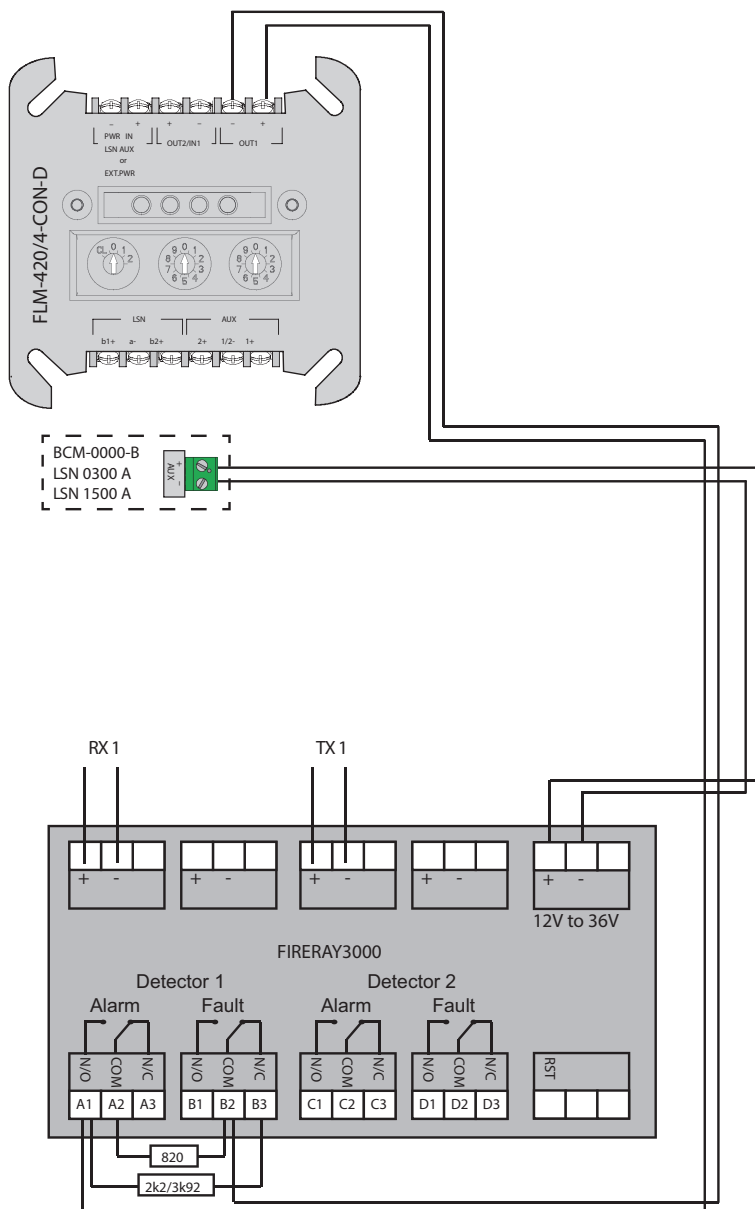
**Fireray 50RV
Fireray 100RV**





FIRERAY3000

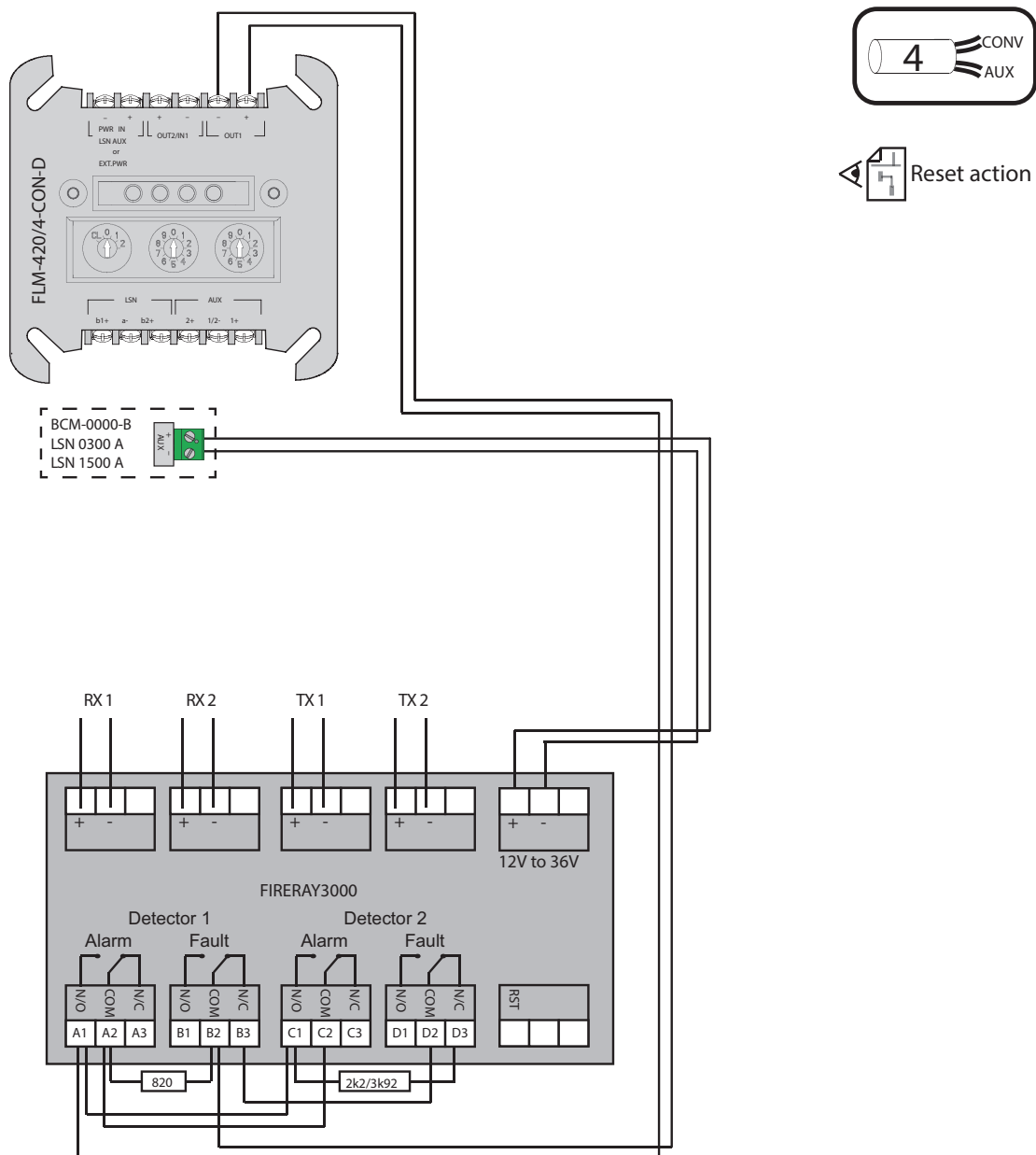
1 x





FIRERAY3000

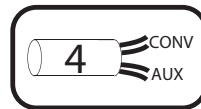
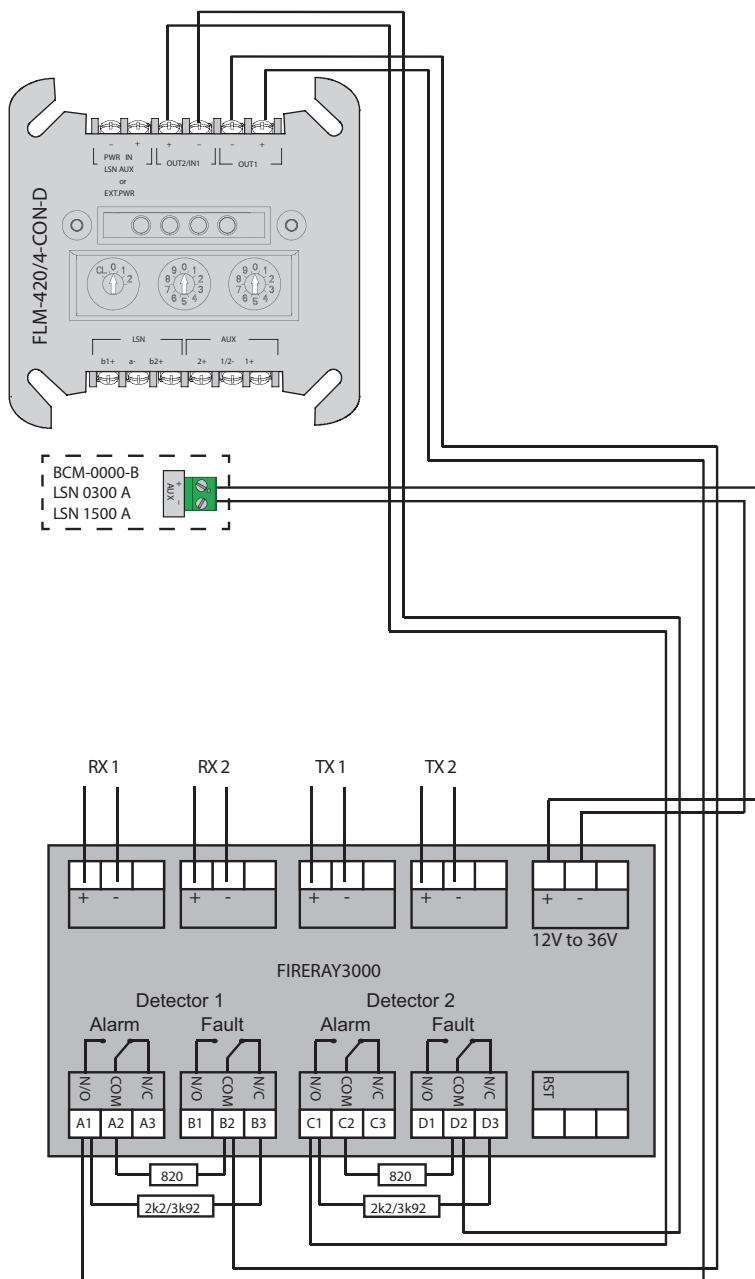
2x 1





FIRERAY3000

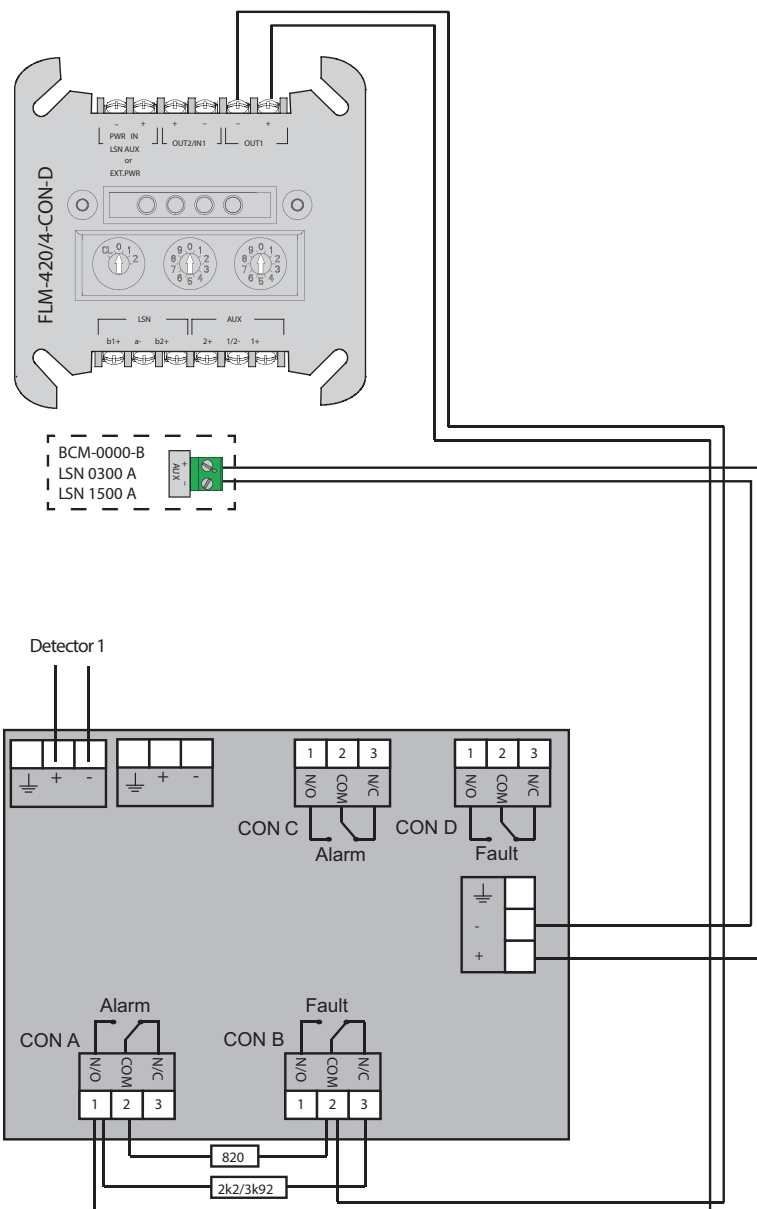
2 x 1+2

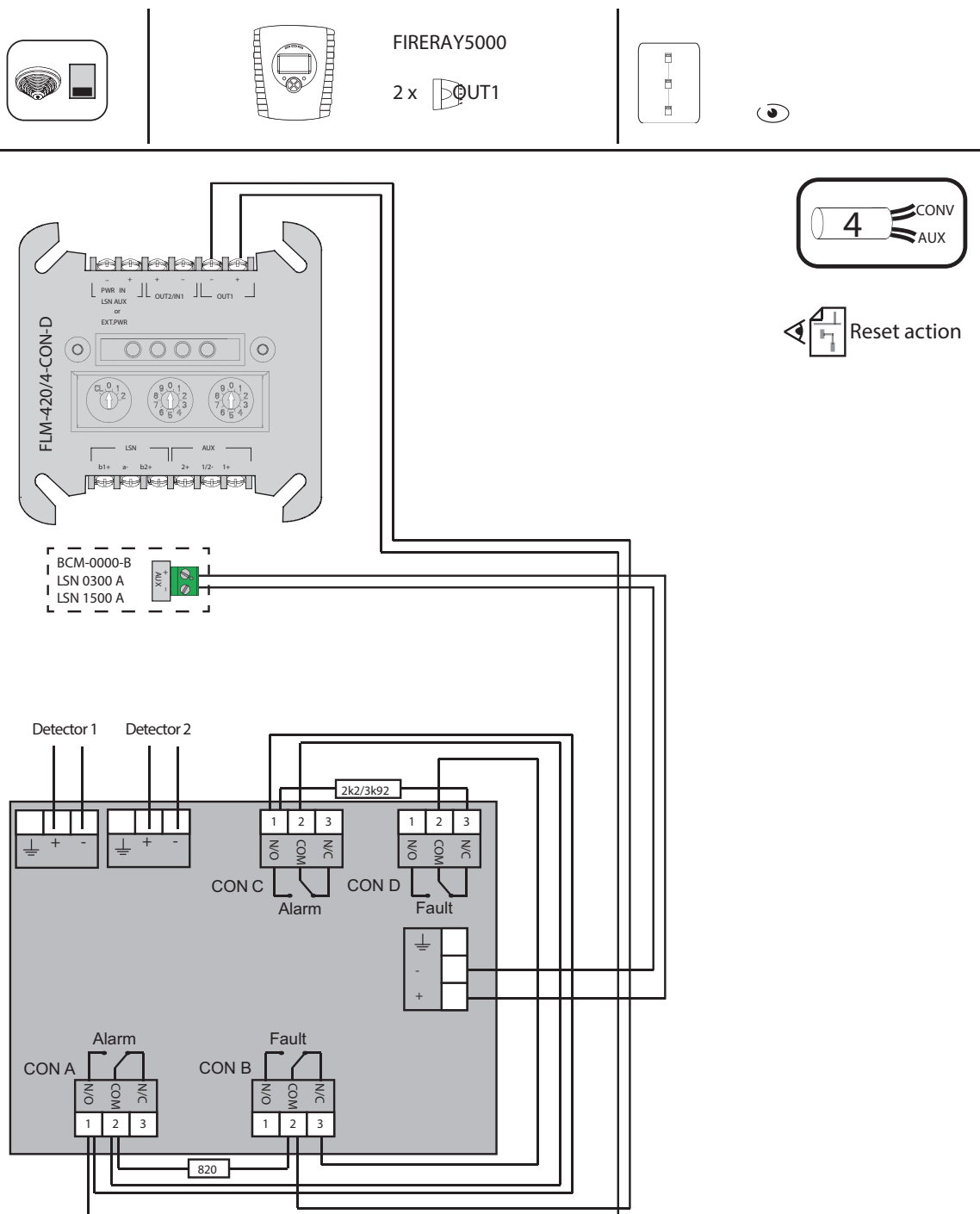




FIRERAY5000

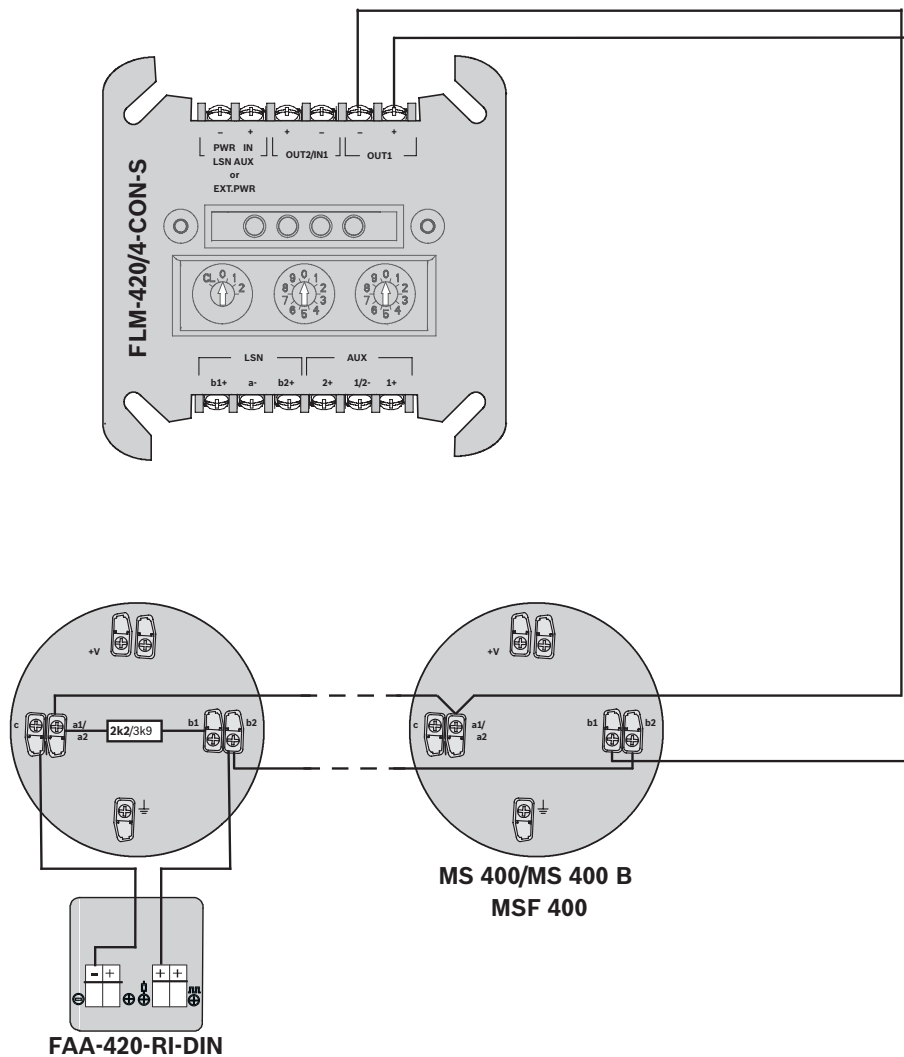
1 x

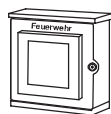
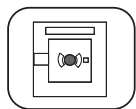




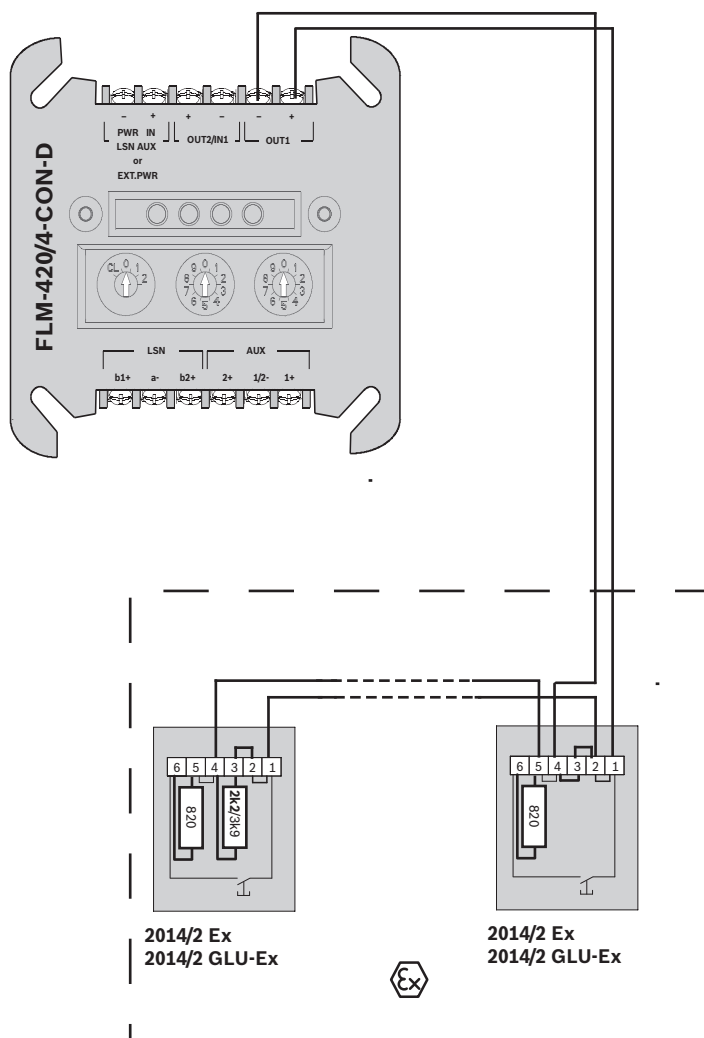
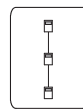


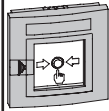
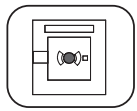
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



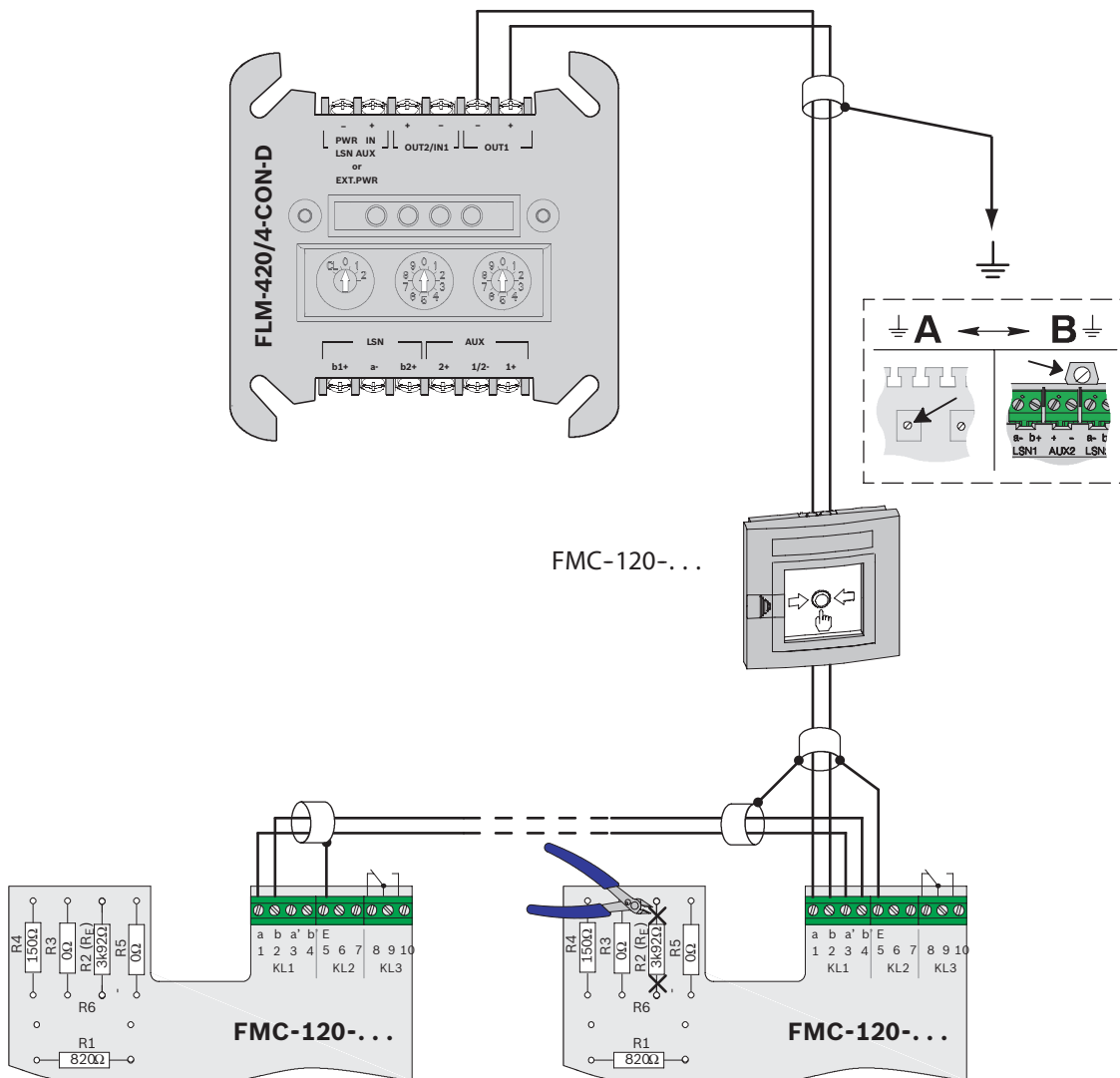
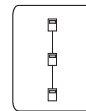


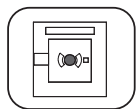
2014/2 Ex
2014/2 GLU-Ex



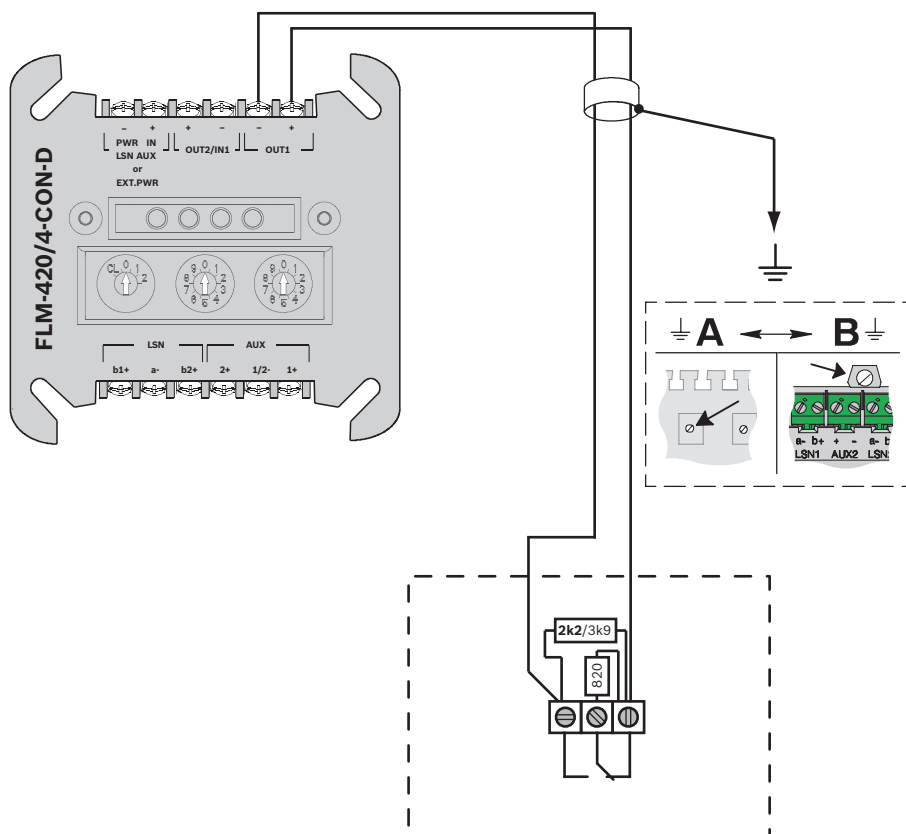
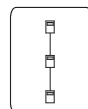


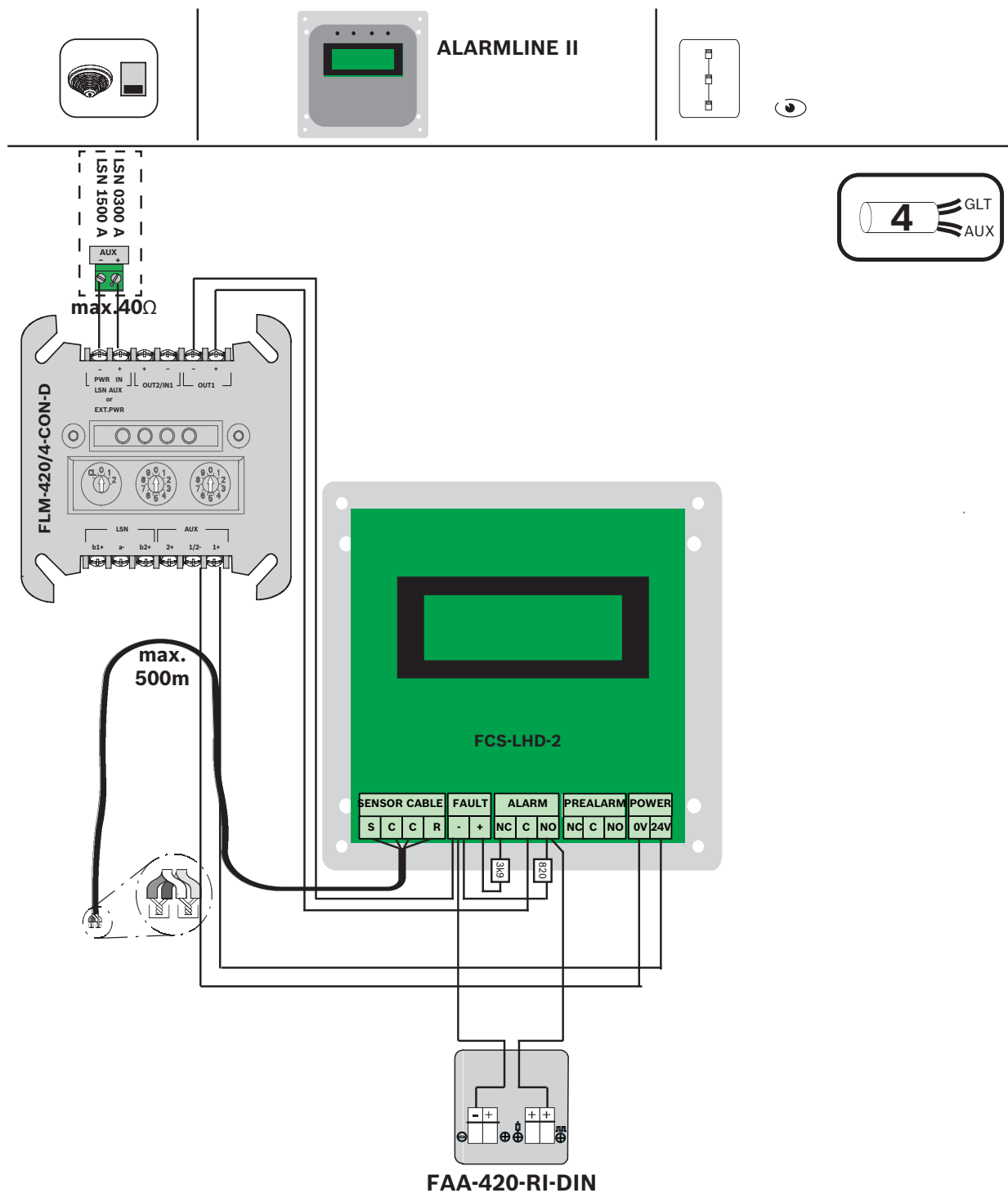
FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B

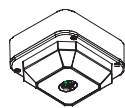




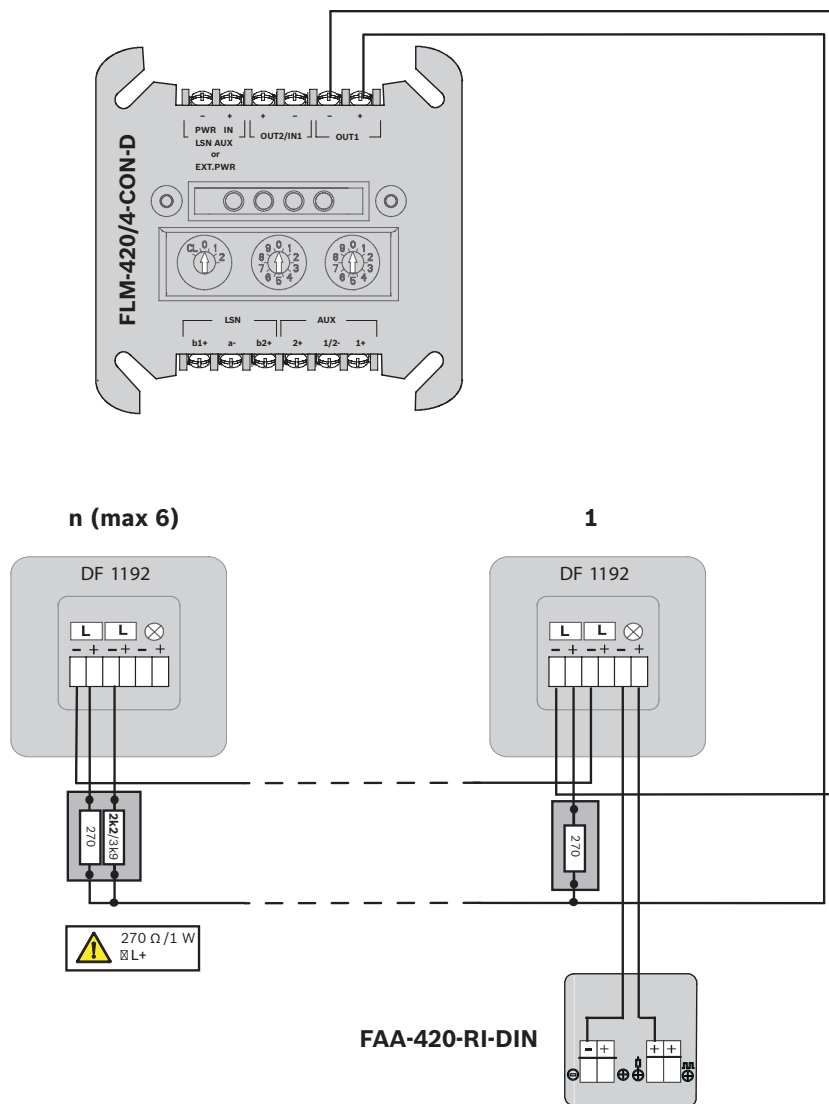
— / — NO

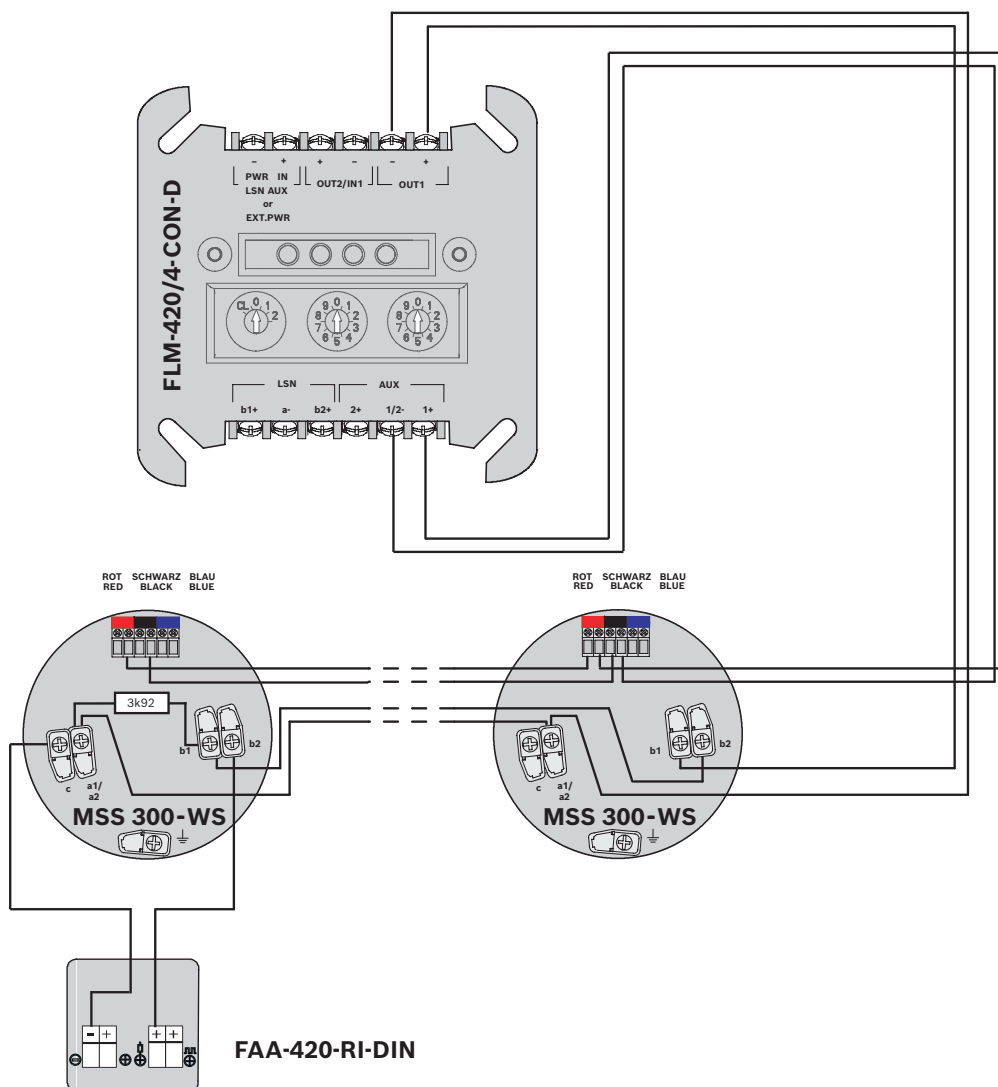


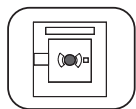




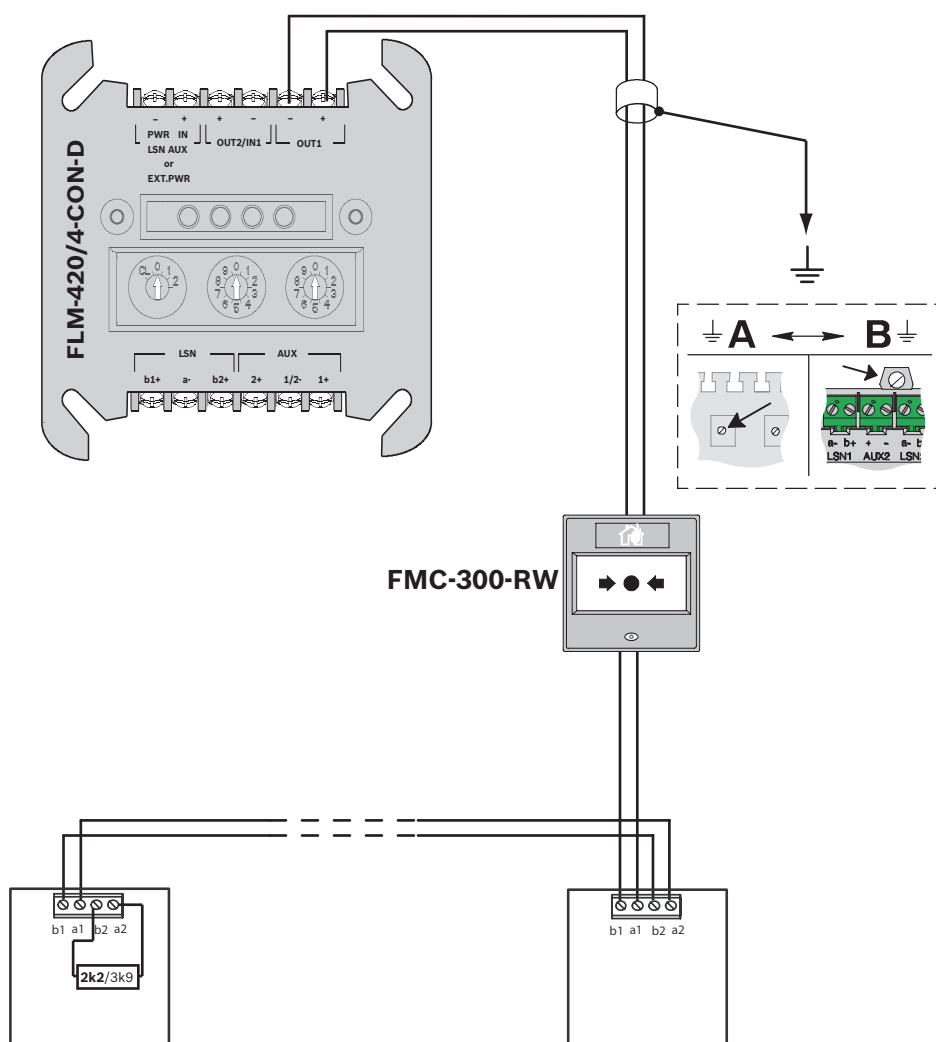
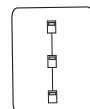
DF 1192



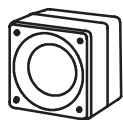
**MSS 300-WS**



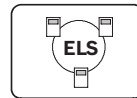
FMC-300-RW



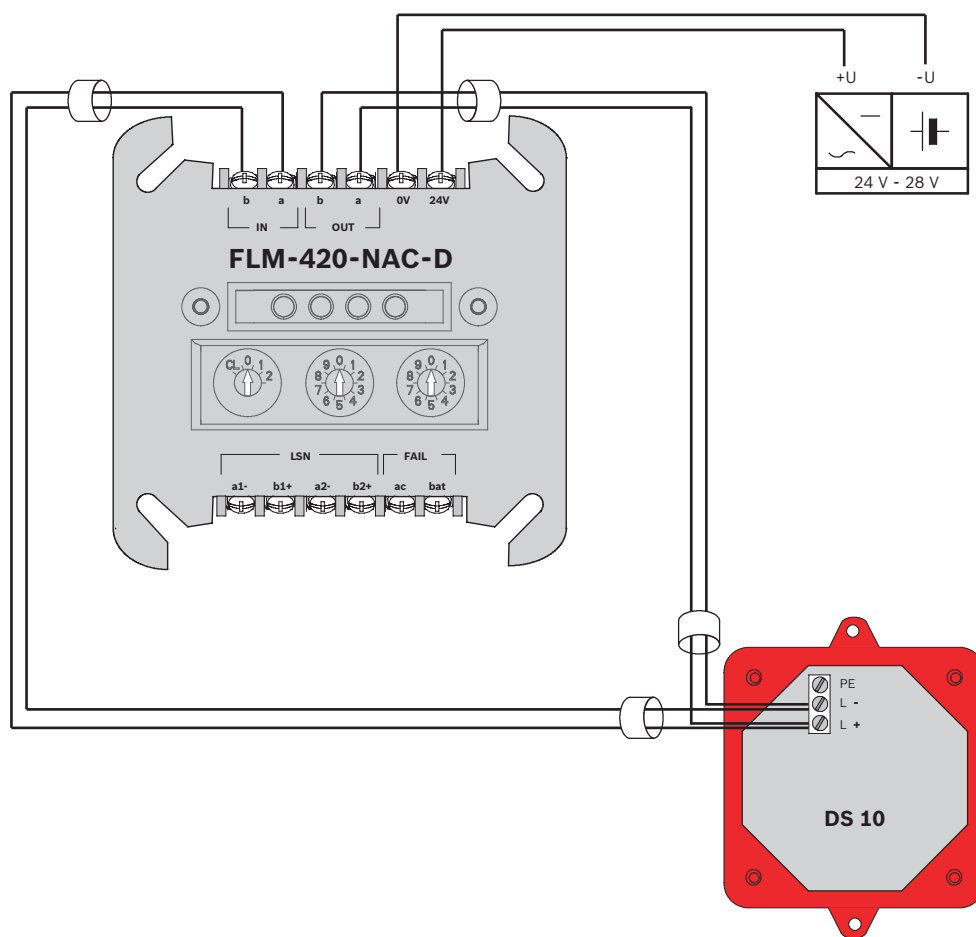
3.4.2 FLM-420-NAC-D/S

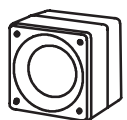
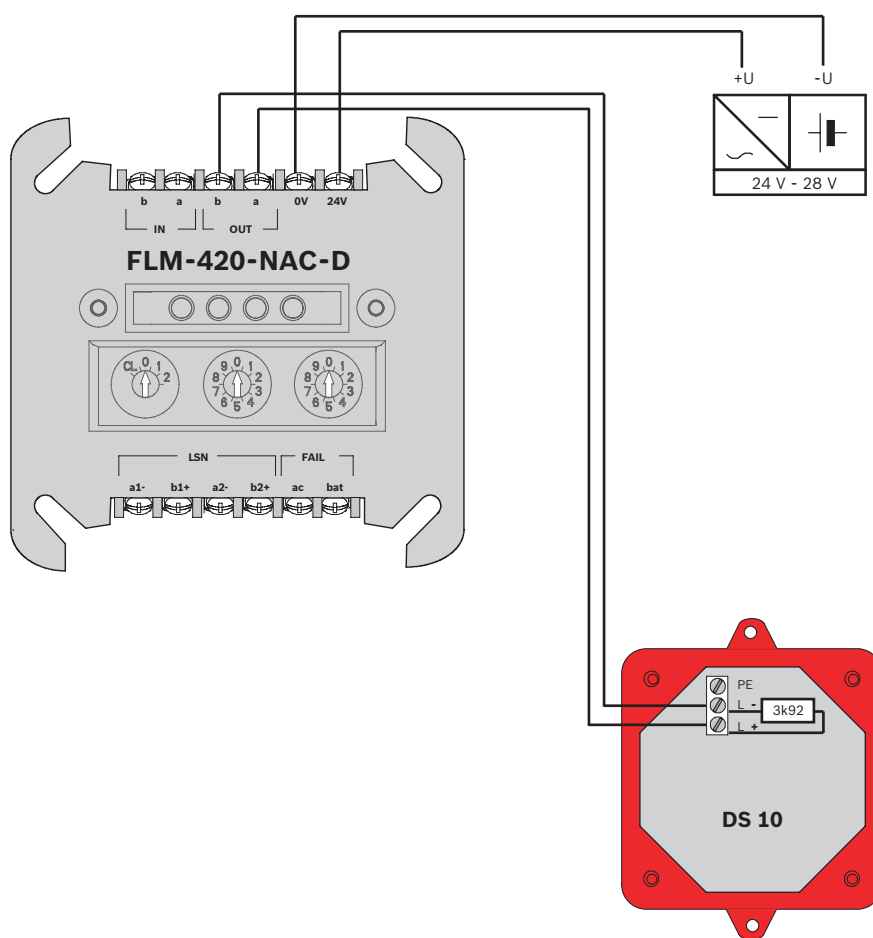
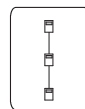


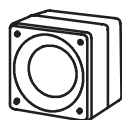
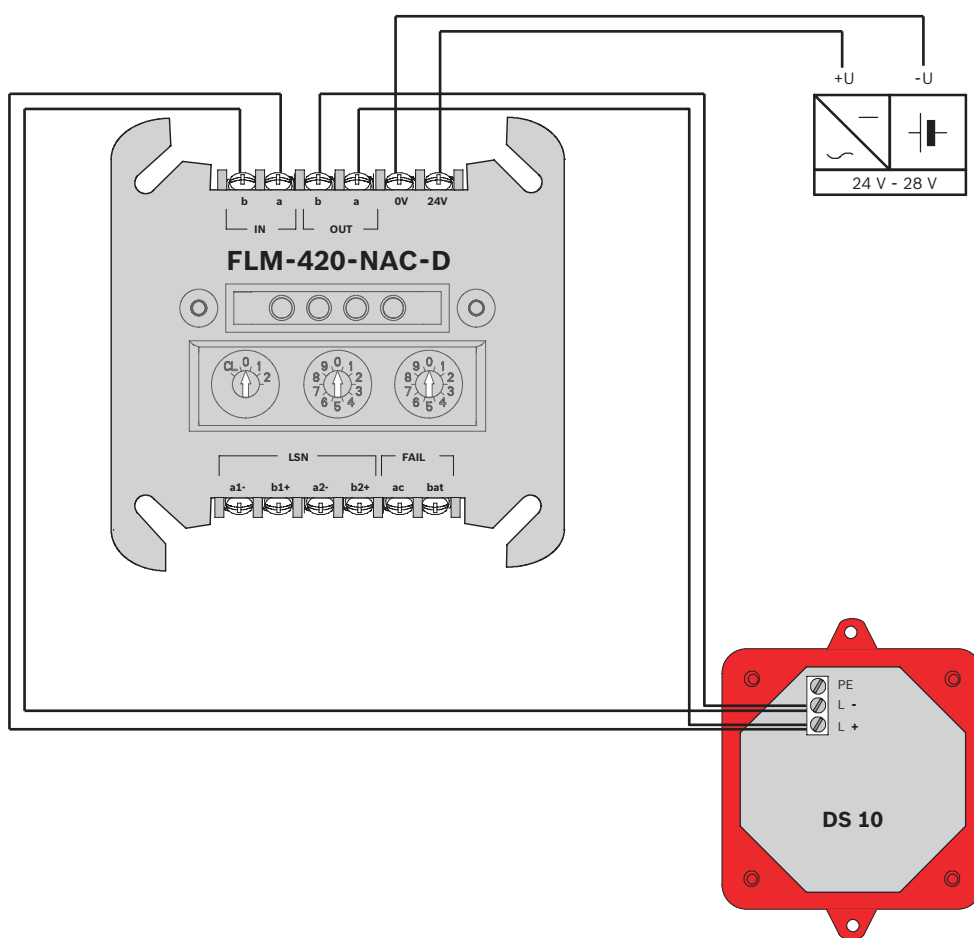
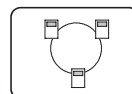
DS 10

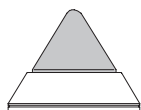
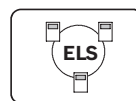
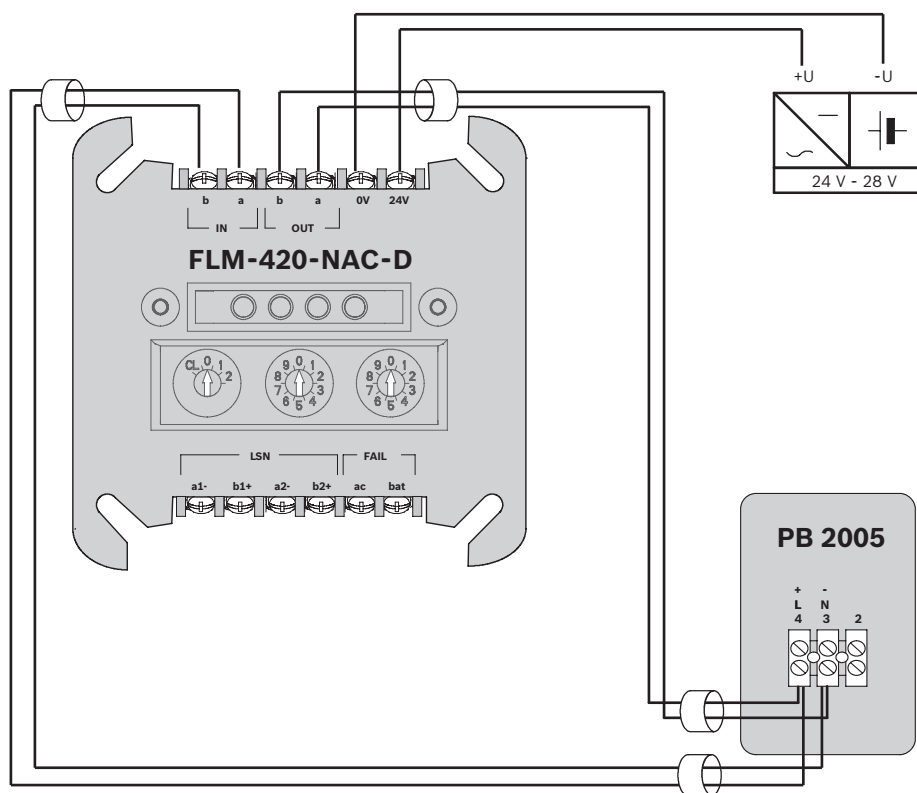


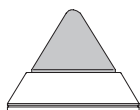
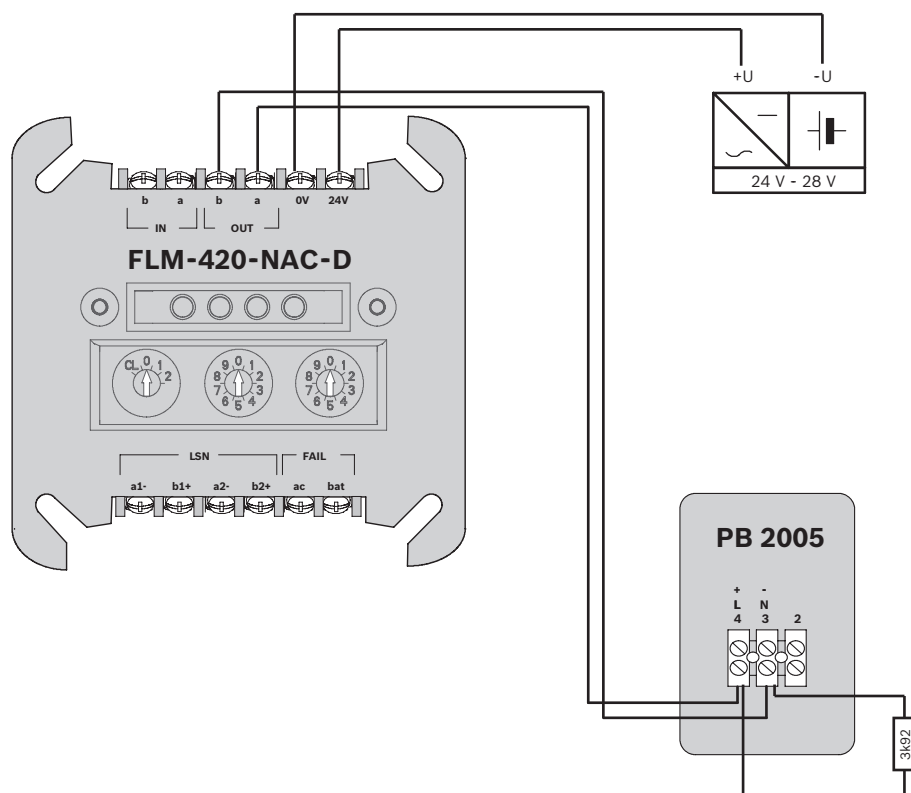
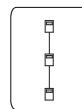
VdS 2489

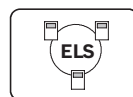
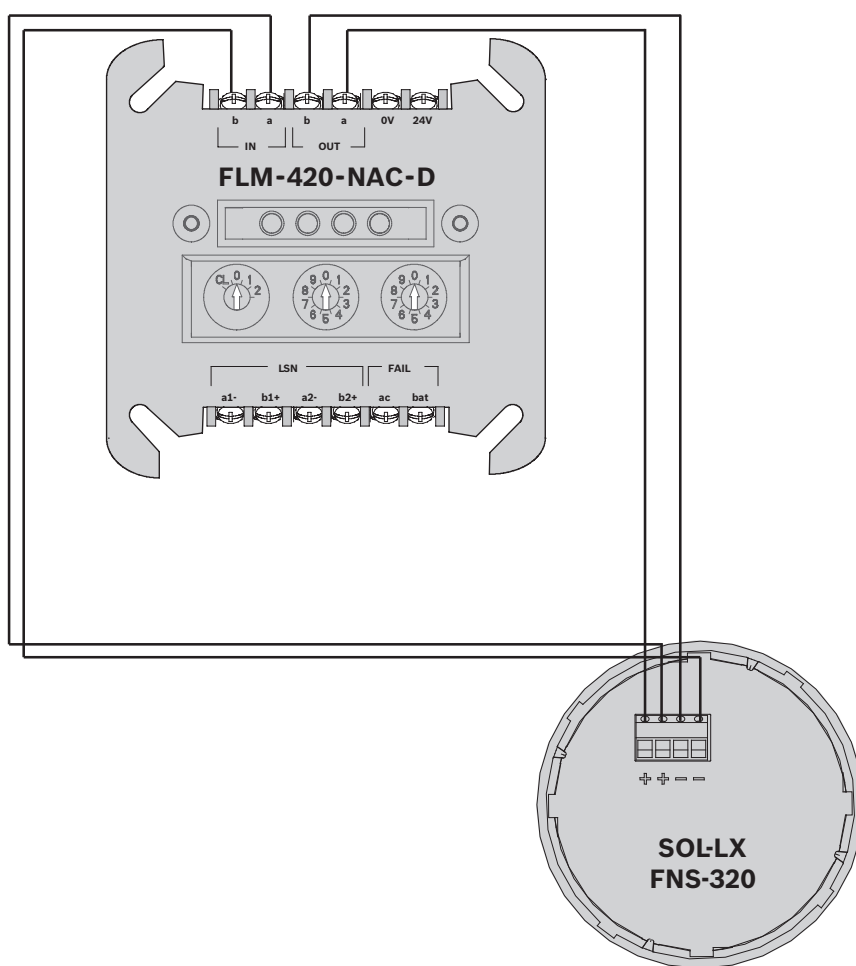


**DS 10**

**DS 10**

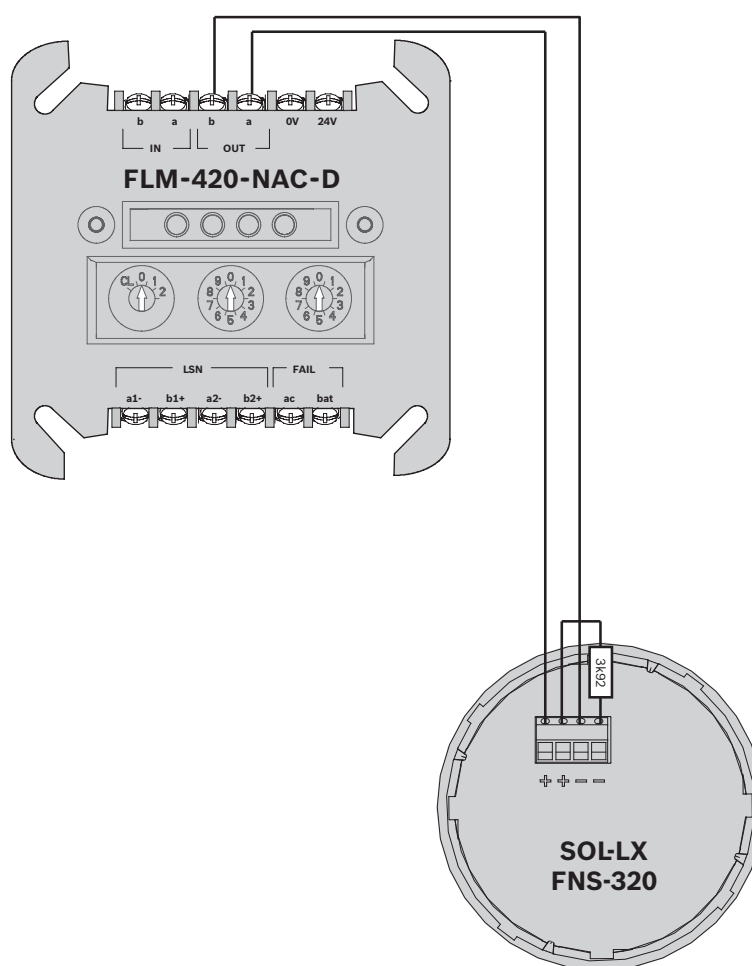
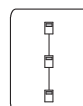
**PB 2005****VdS 2489**

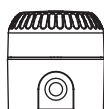
**PB 2005**

**SOL-LX
FNS-320****VdS 2489**

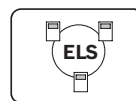


**SOL-LX
FNS-320**

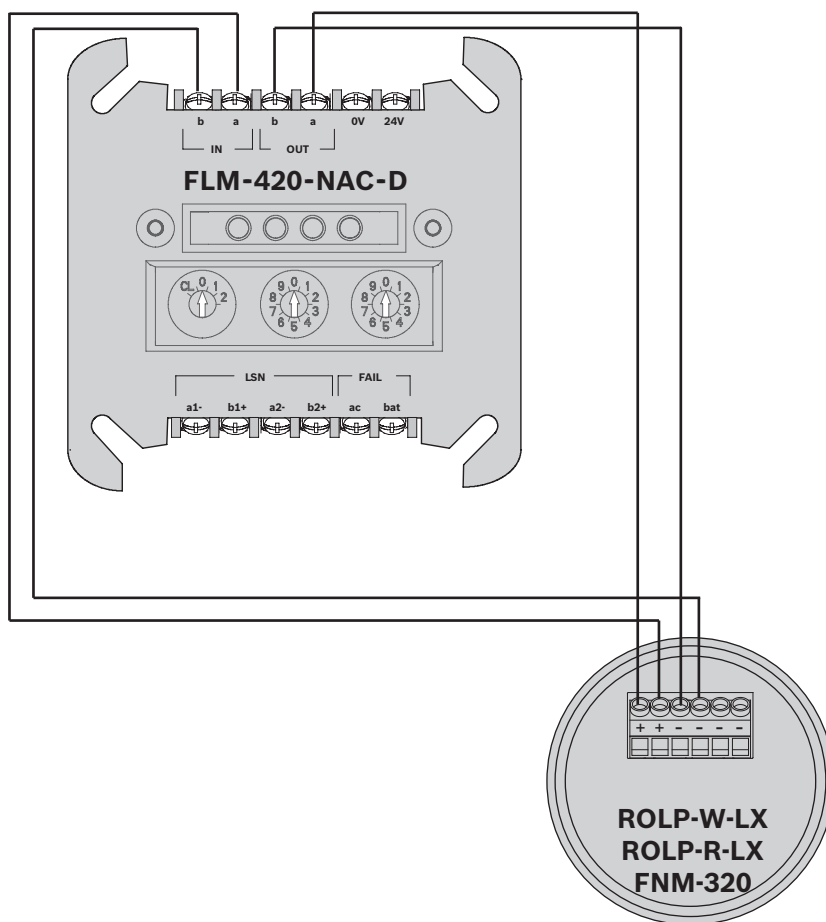




ROLP-W-LX
ROLP-R-LX
FNM-320

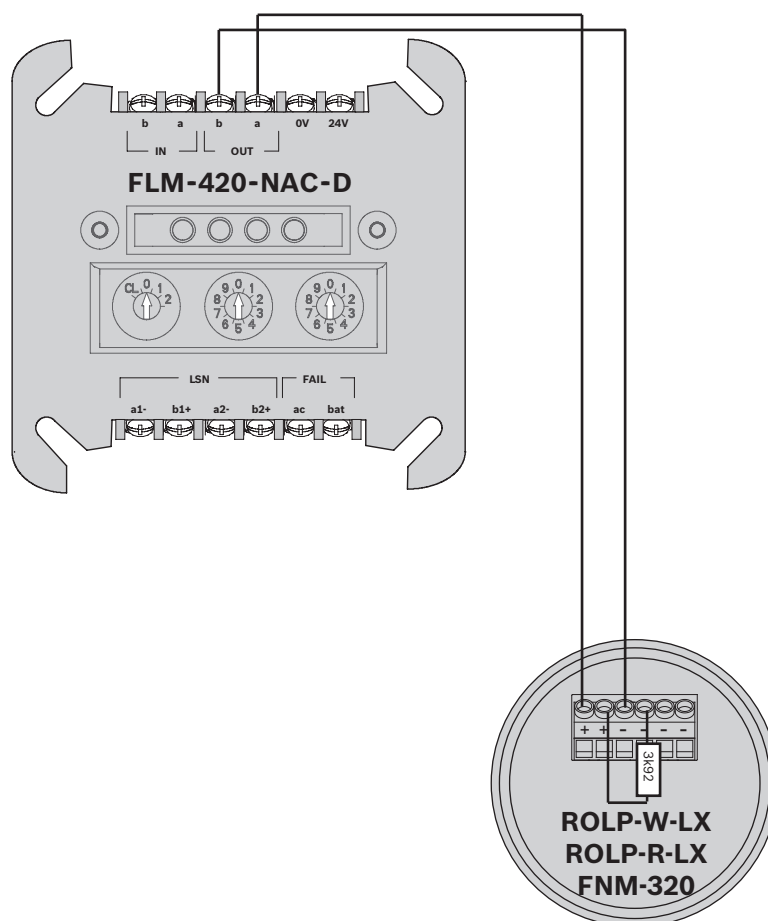
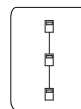


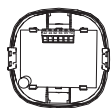
VdS 2489



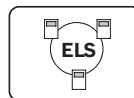


ROLP-W-LX
ROLP-R-LX
FNM-320

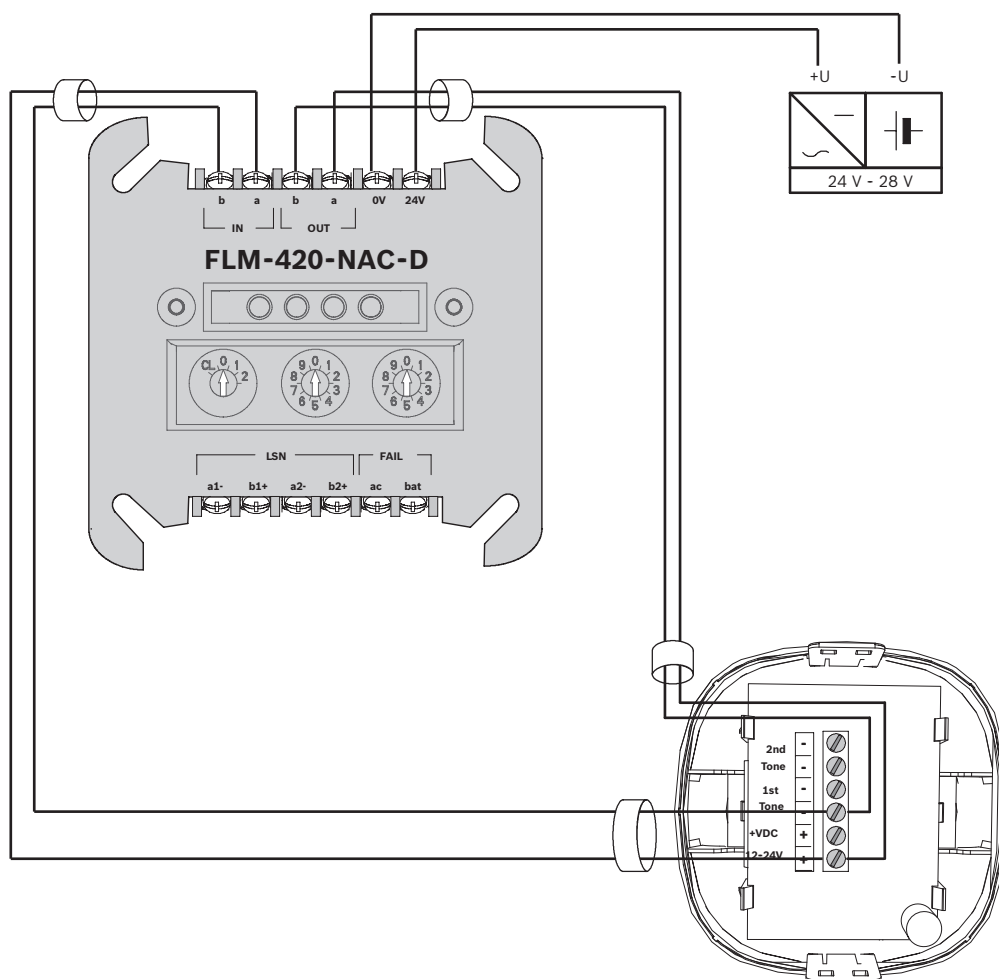


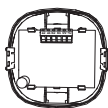


FNM-320V-A / -B

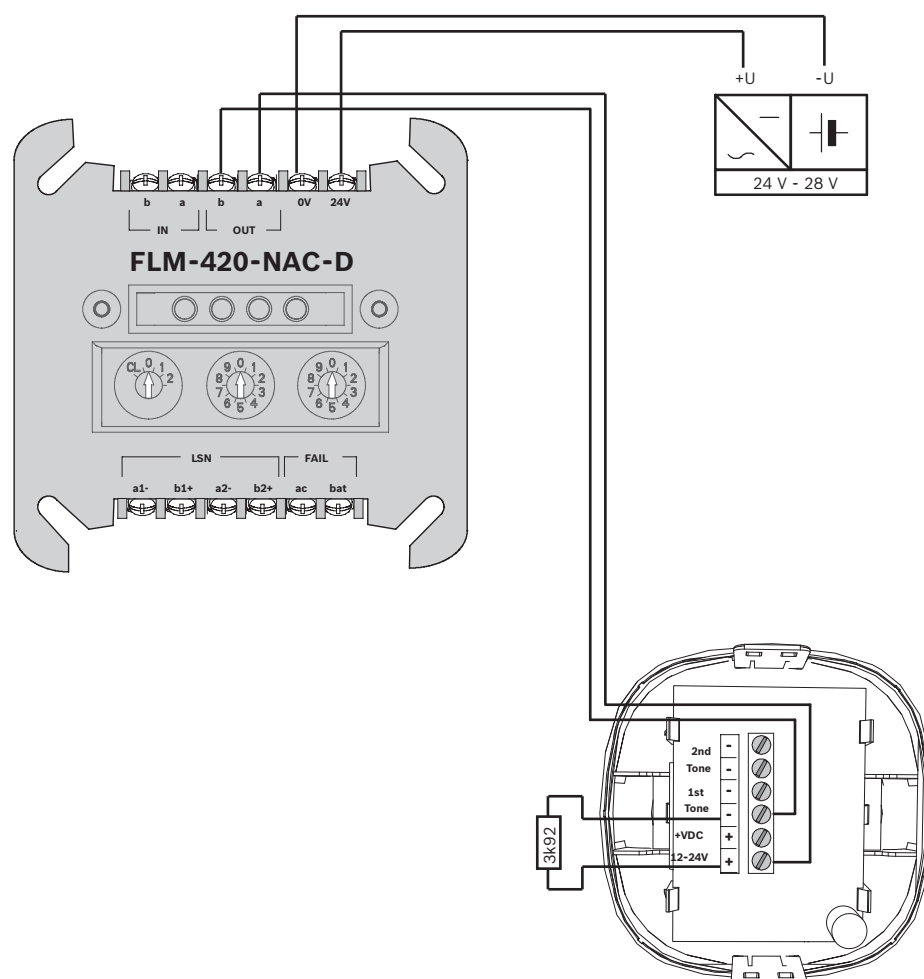
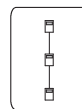


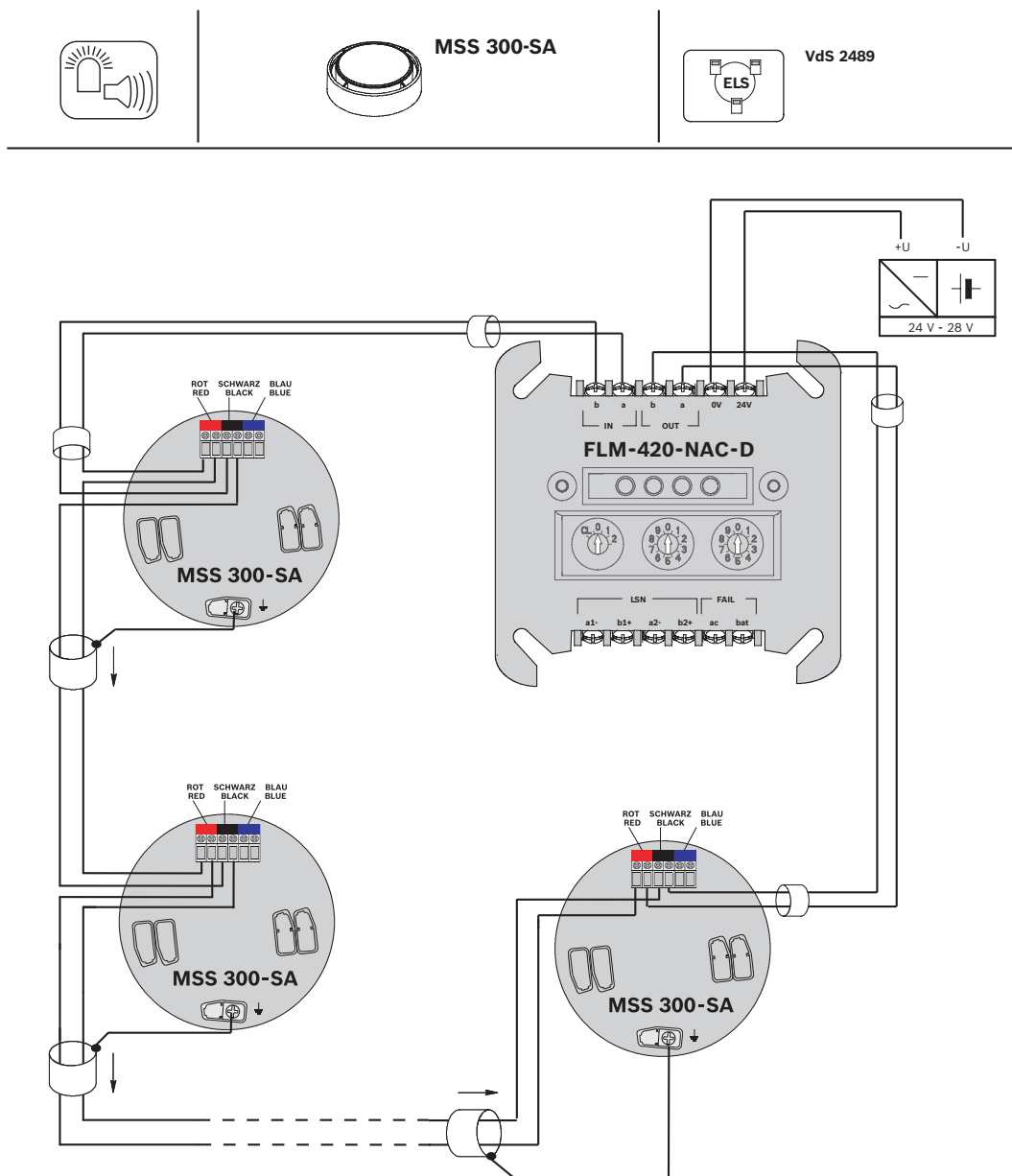
VdS 2489

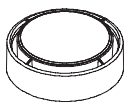




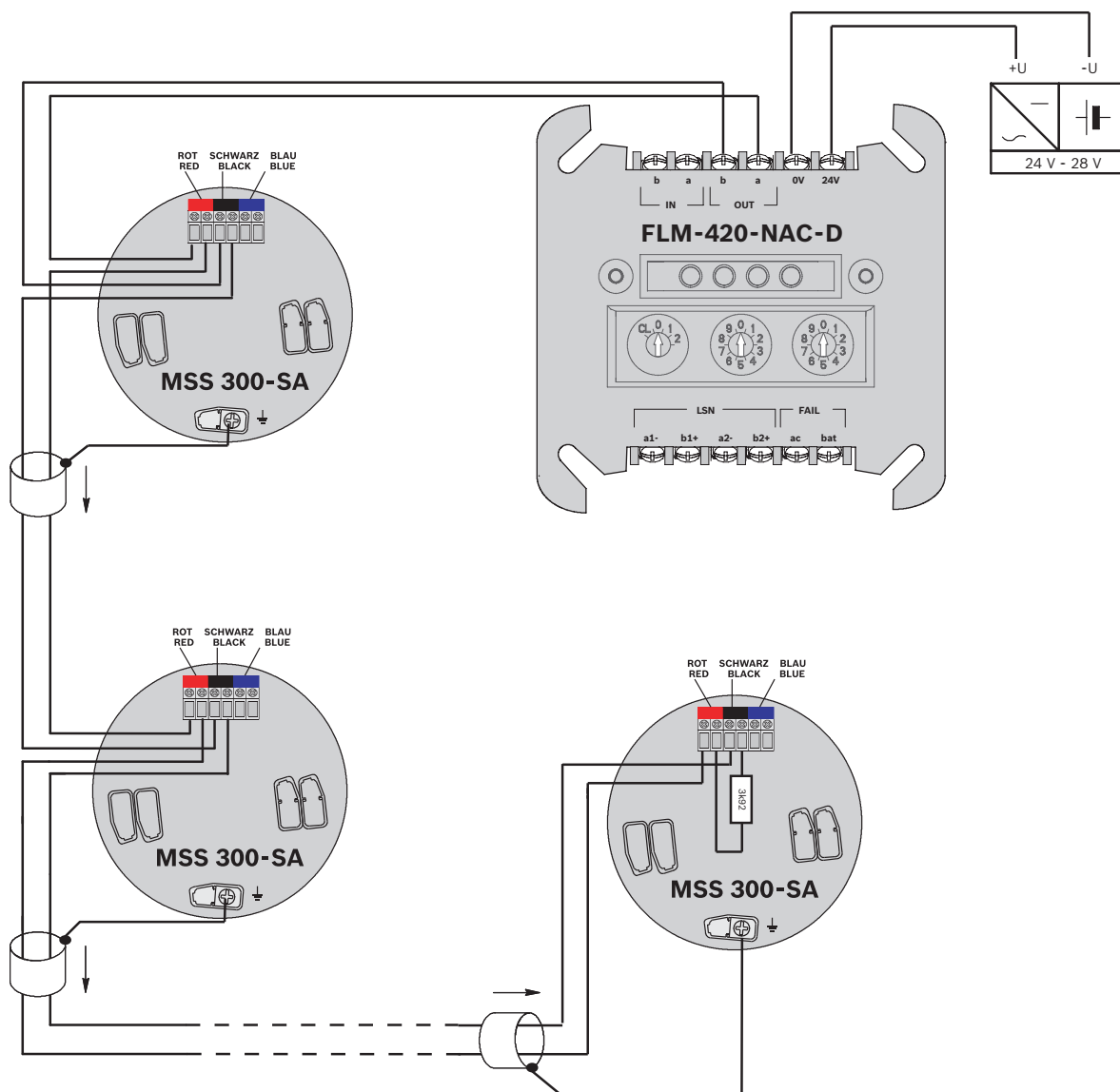
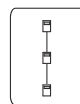
FNM-320V-A / -B







MSS 300-SA

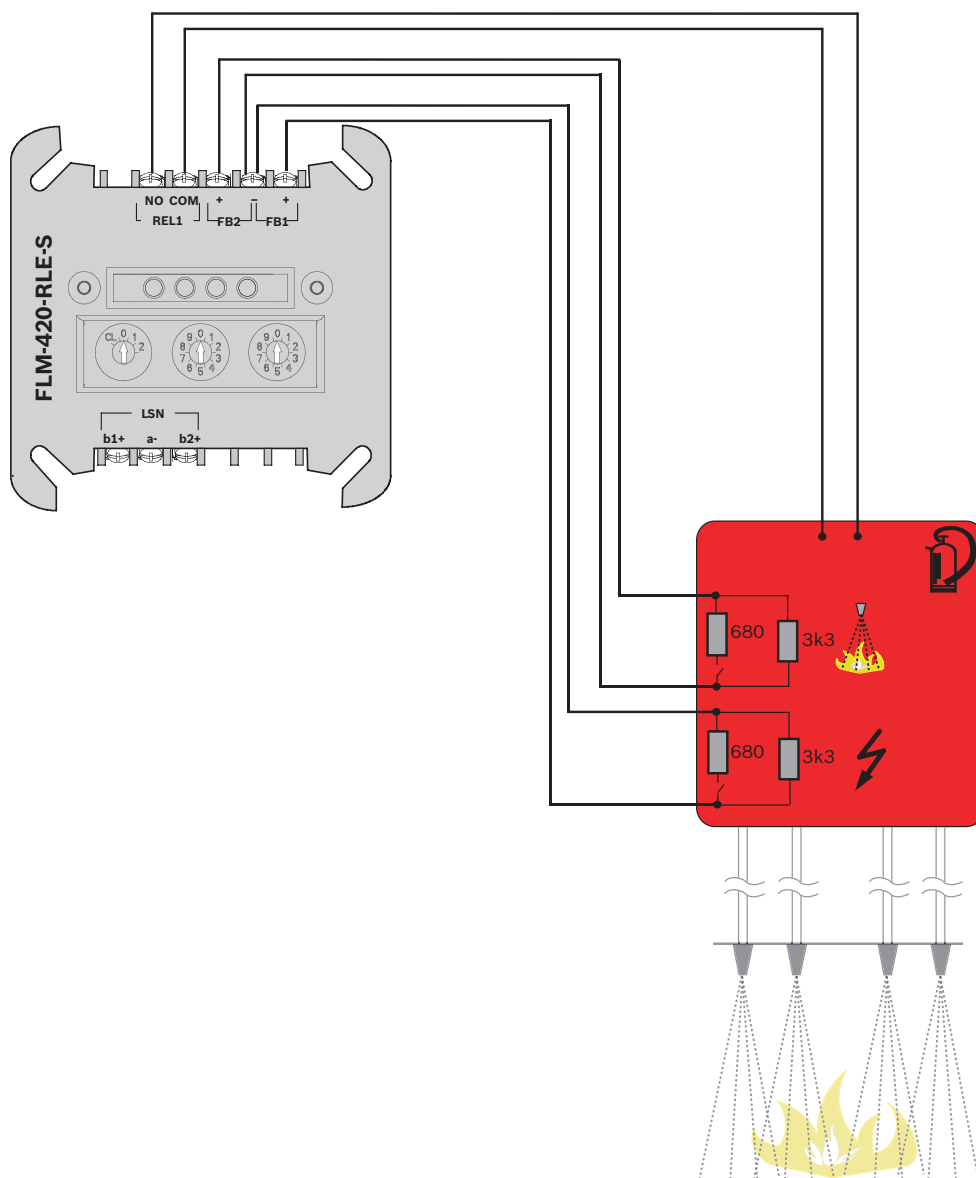


3.4.3

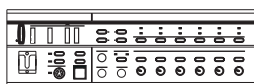
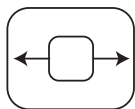
FLM-420-RLE-S



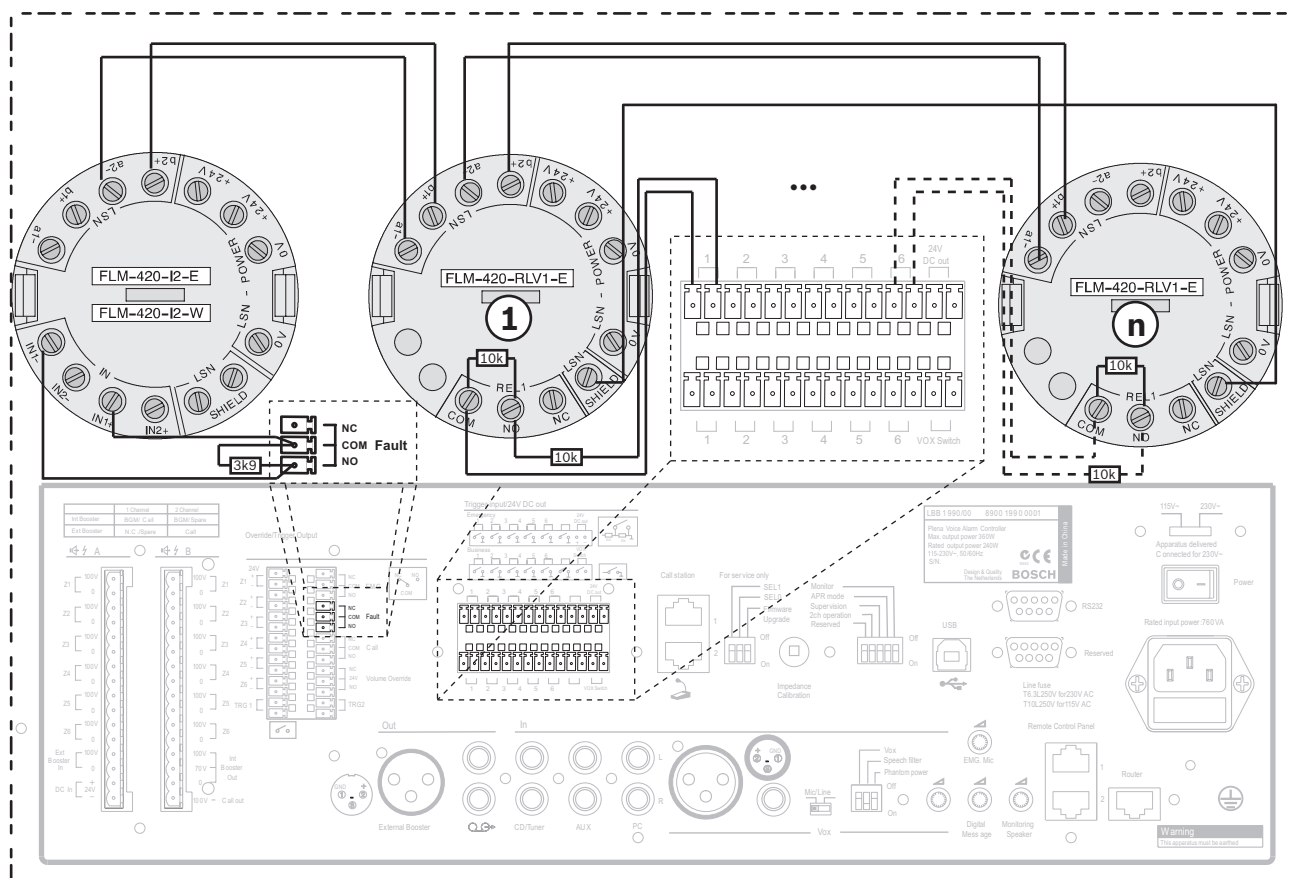
VdS 2496:2005-09



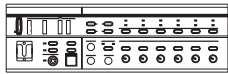
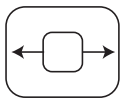
3.4.4 FLM-420-RLV1-E



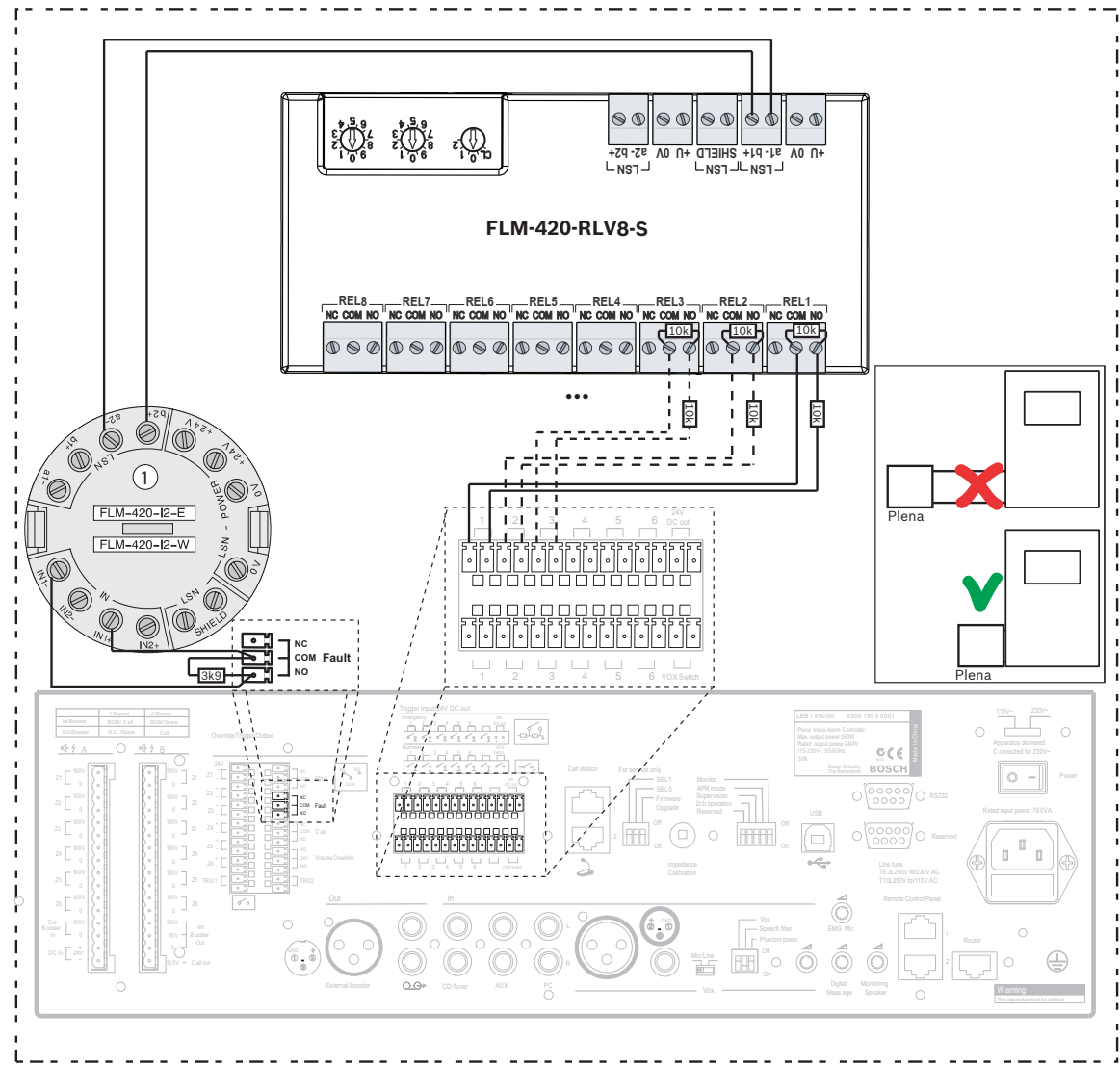
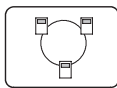
Plena



3.4.5 FLM-420-RLV8-S

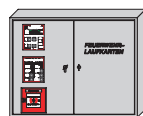


Plena



3.4.6

FMF-ADP-FBF/FMF-ADP-TTY



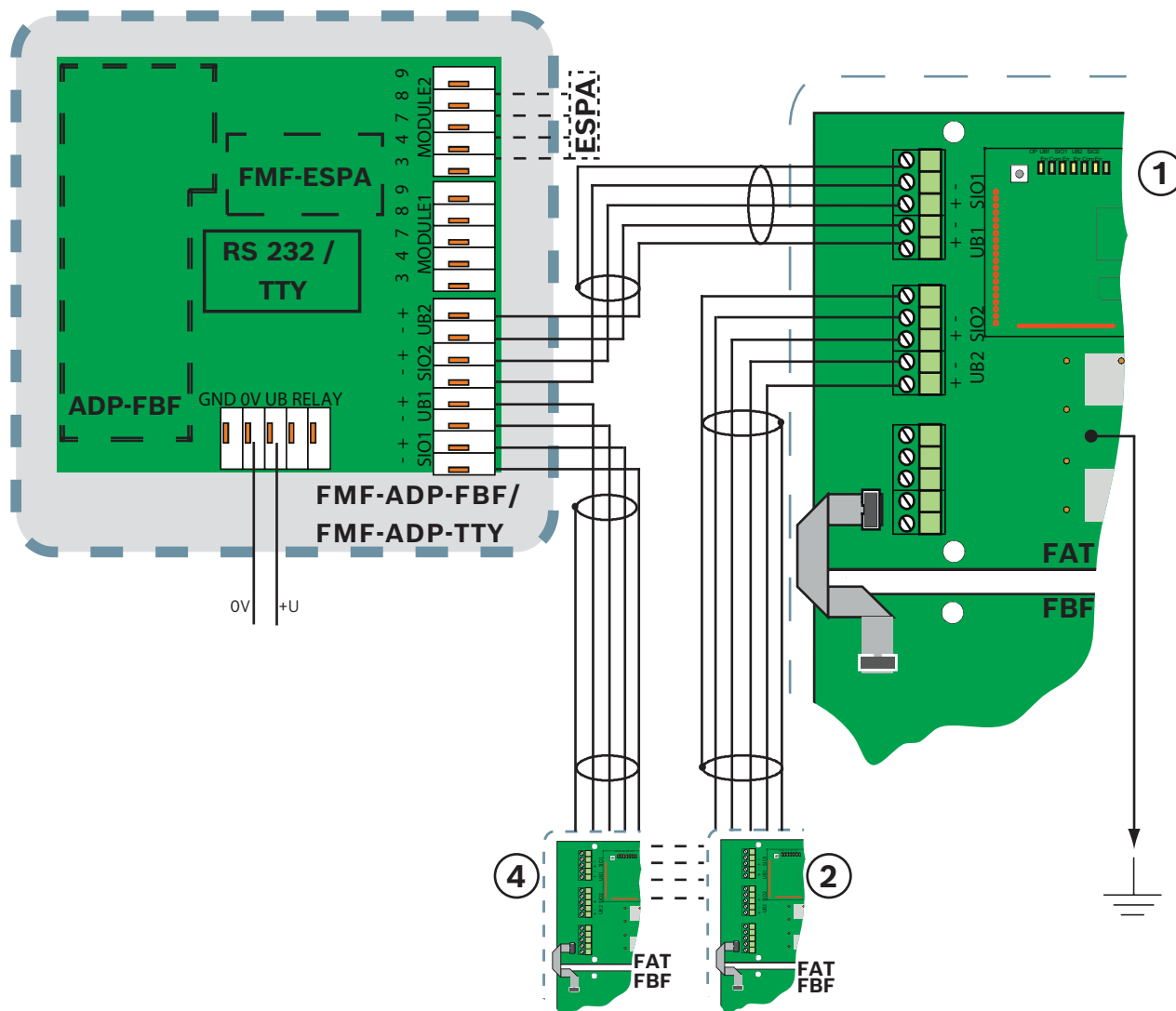
FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT

FMF-FIBS-A4/-A3

FMF-ADP

ELS VdS 2489



3.5

EOL

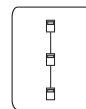
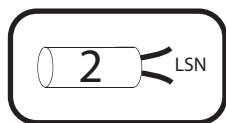


LSN 0300 A, Strona 182

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

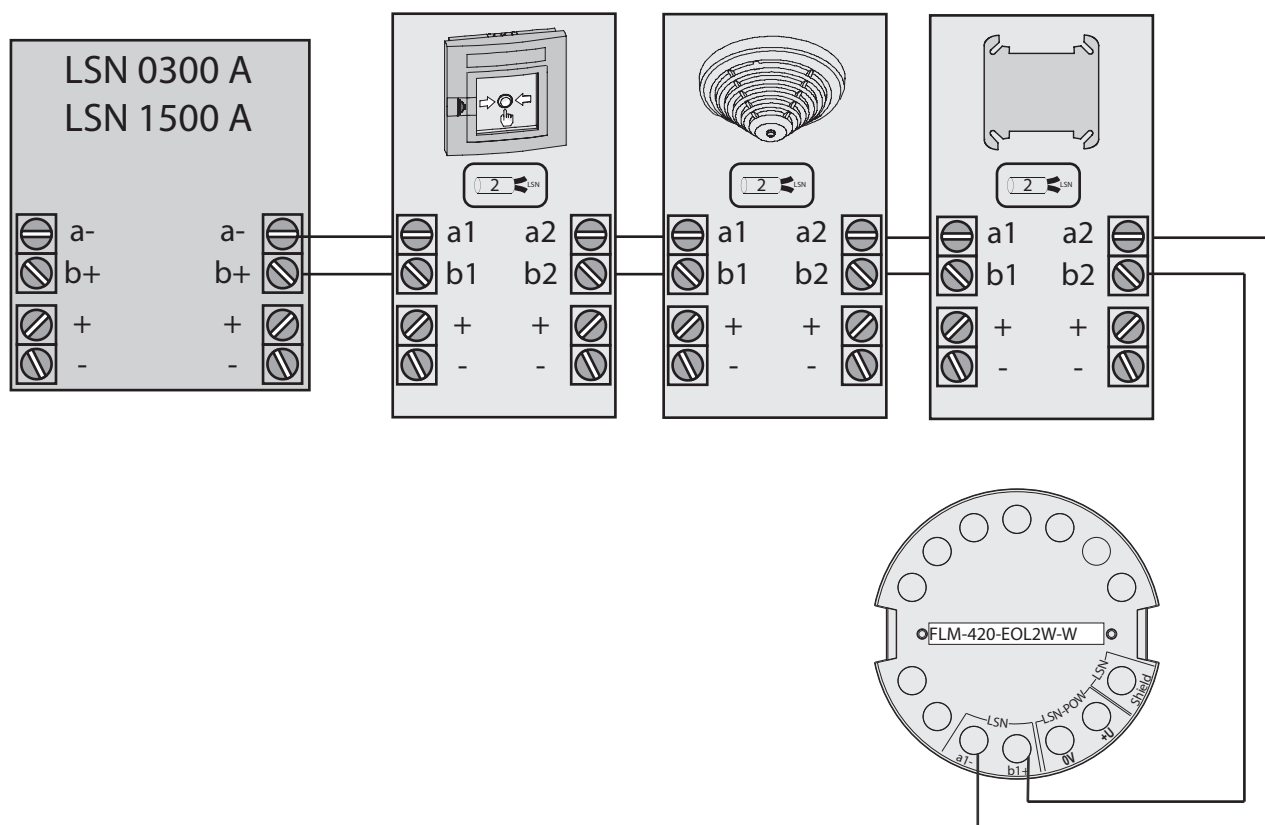
3.5.1

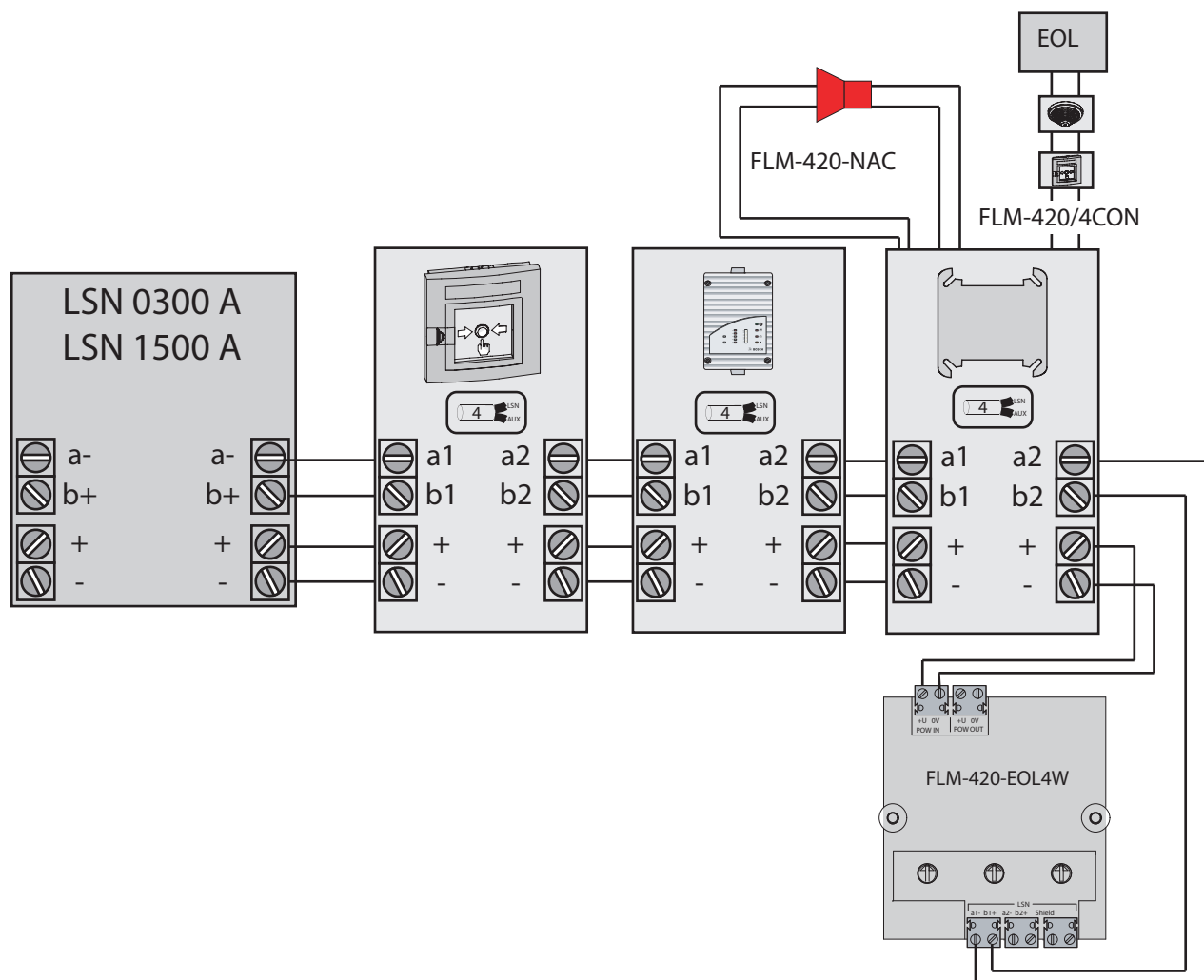
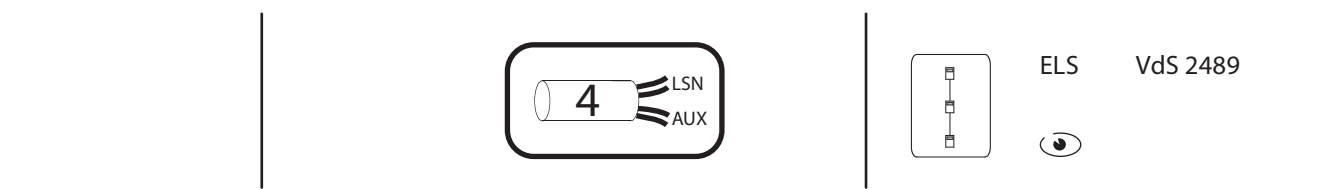
LSN 0300 A

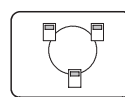
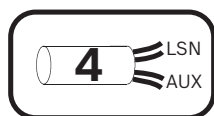


ELS

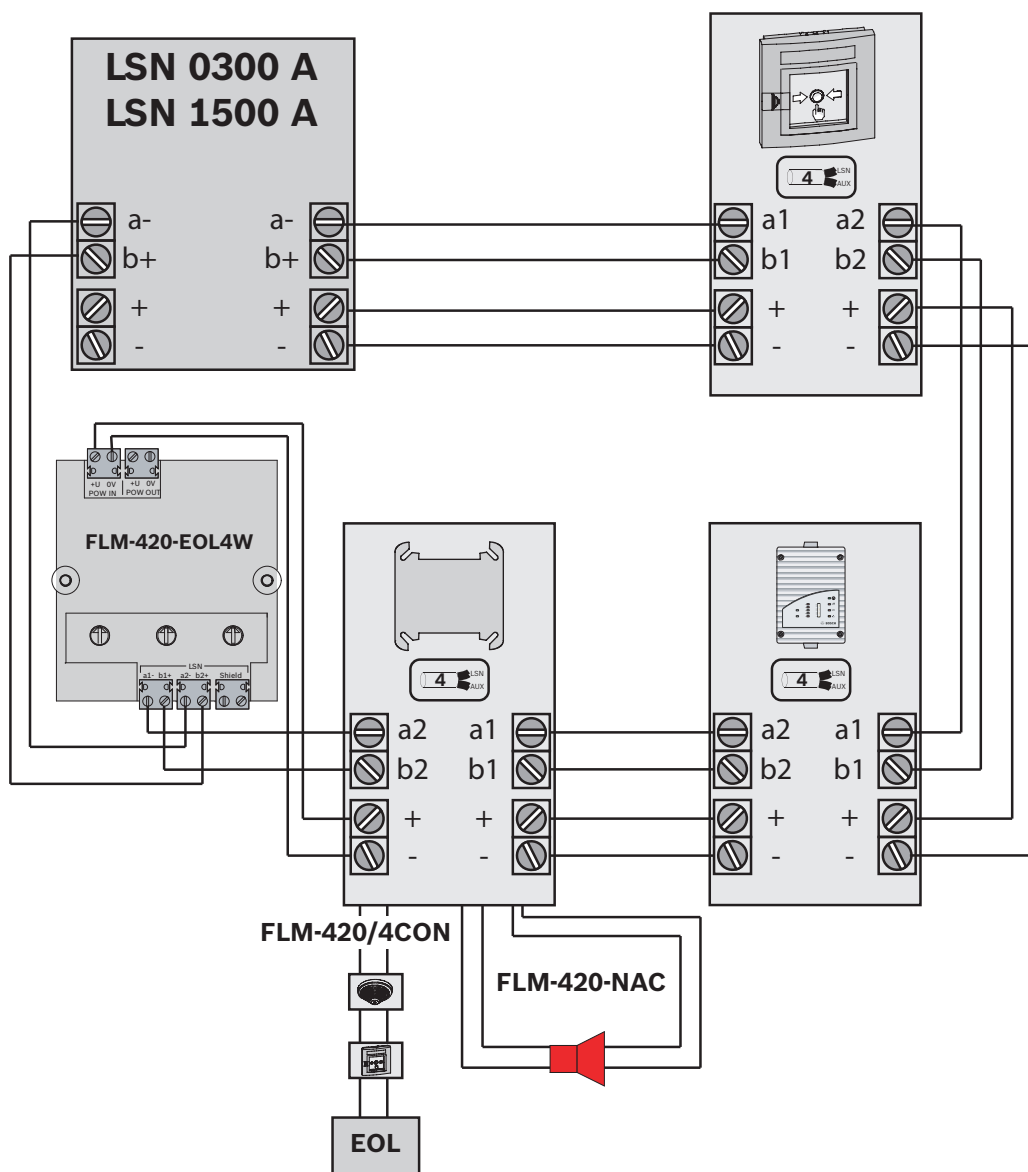
VdS 2489







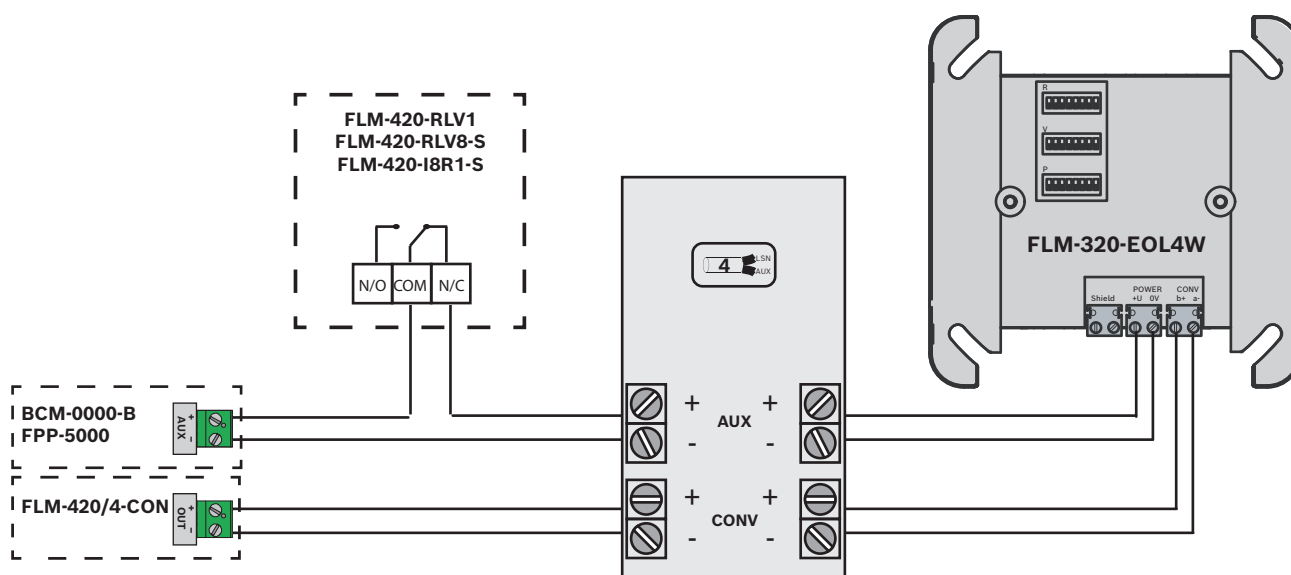
ELS VdS 2489

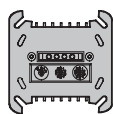
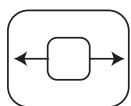




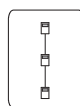
Reset action

ELS VdS 2489

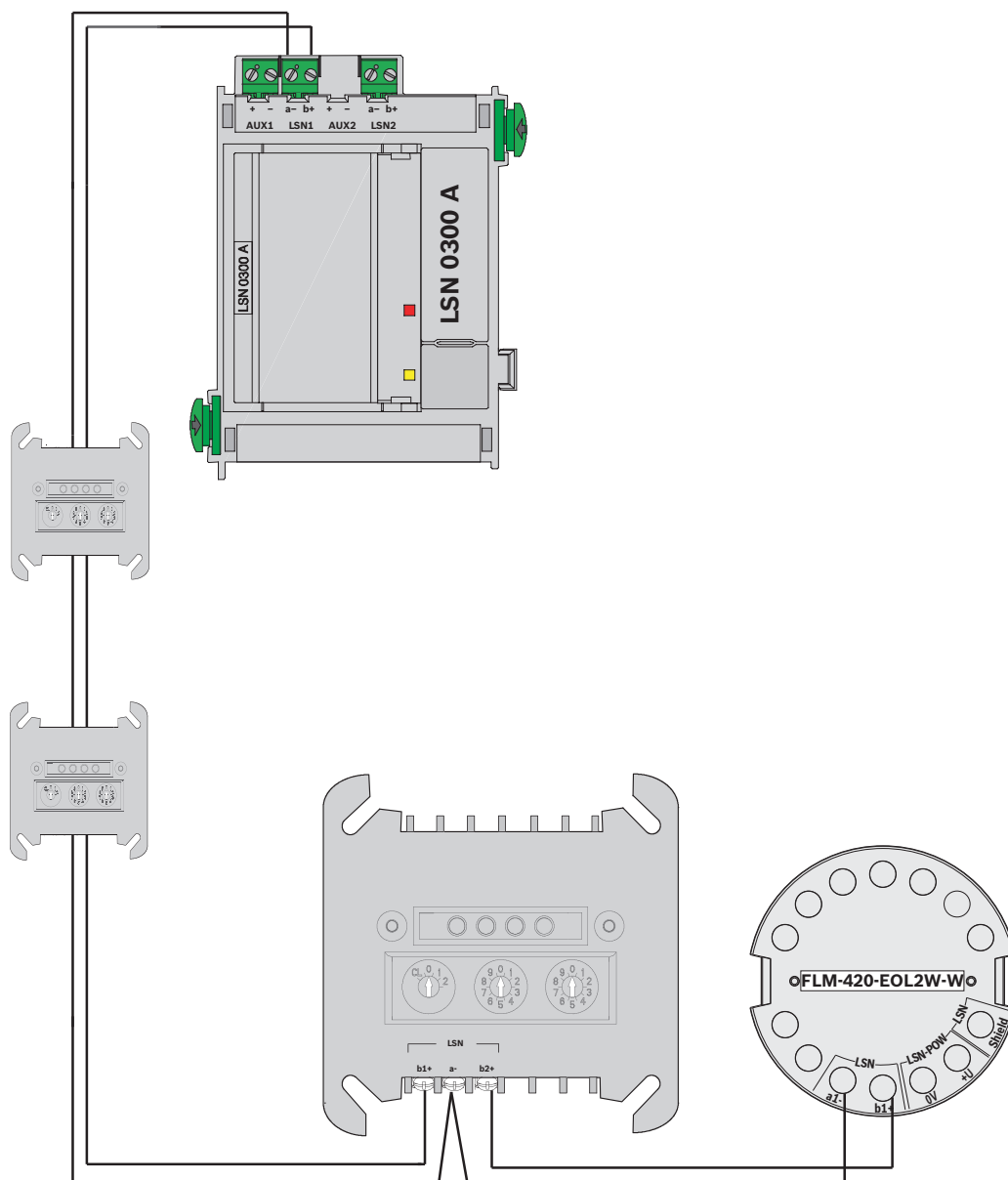


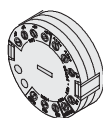
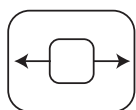
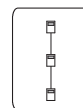
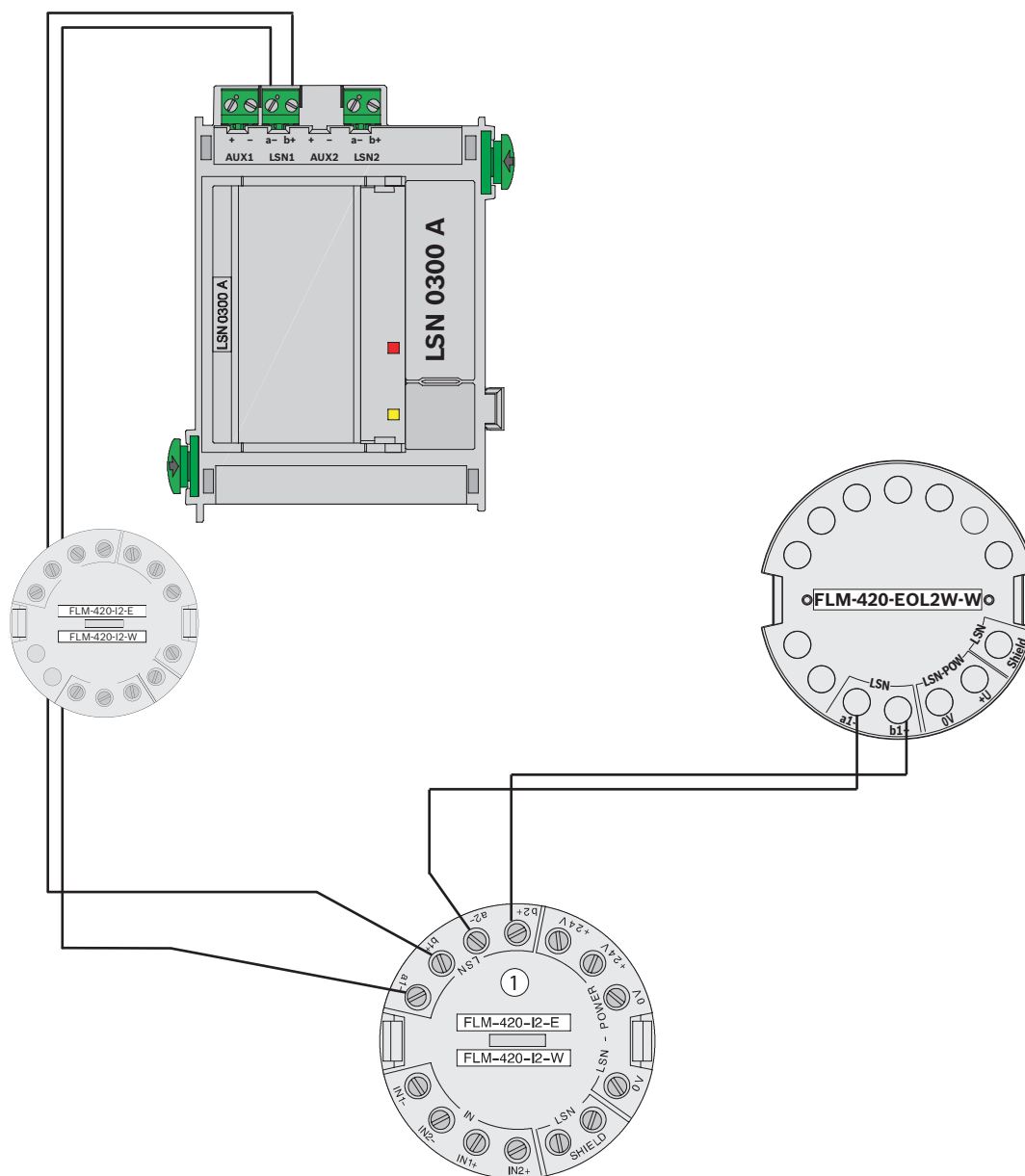


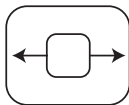
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D



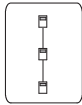
ELS VdS 2489



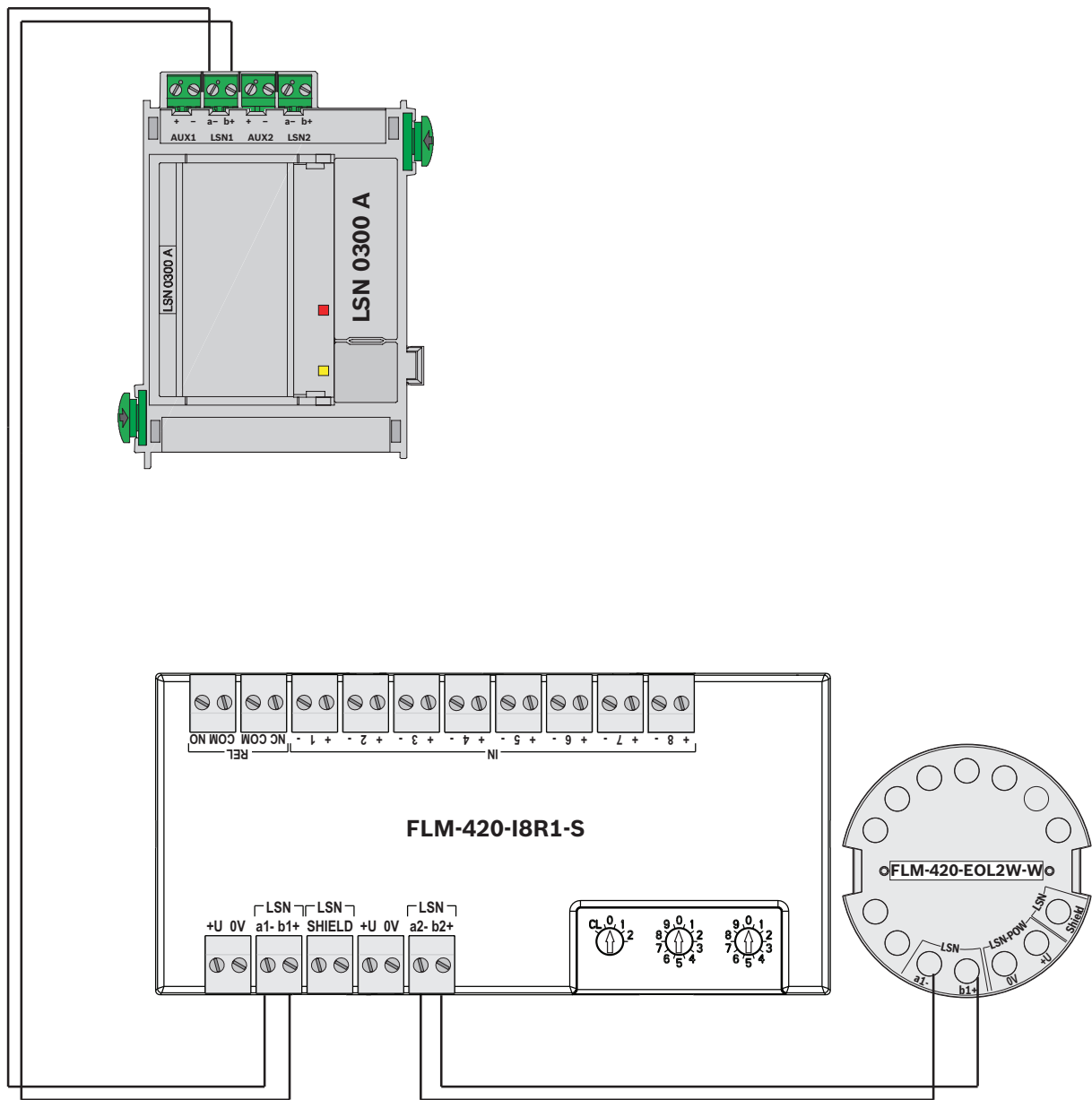

FLM-420-I2-E/W

ELS VdS 2489


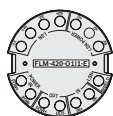
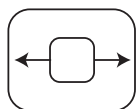


FLM-420-I8R1-S

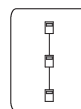


ELS VdS 2489

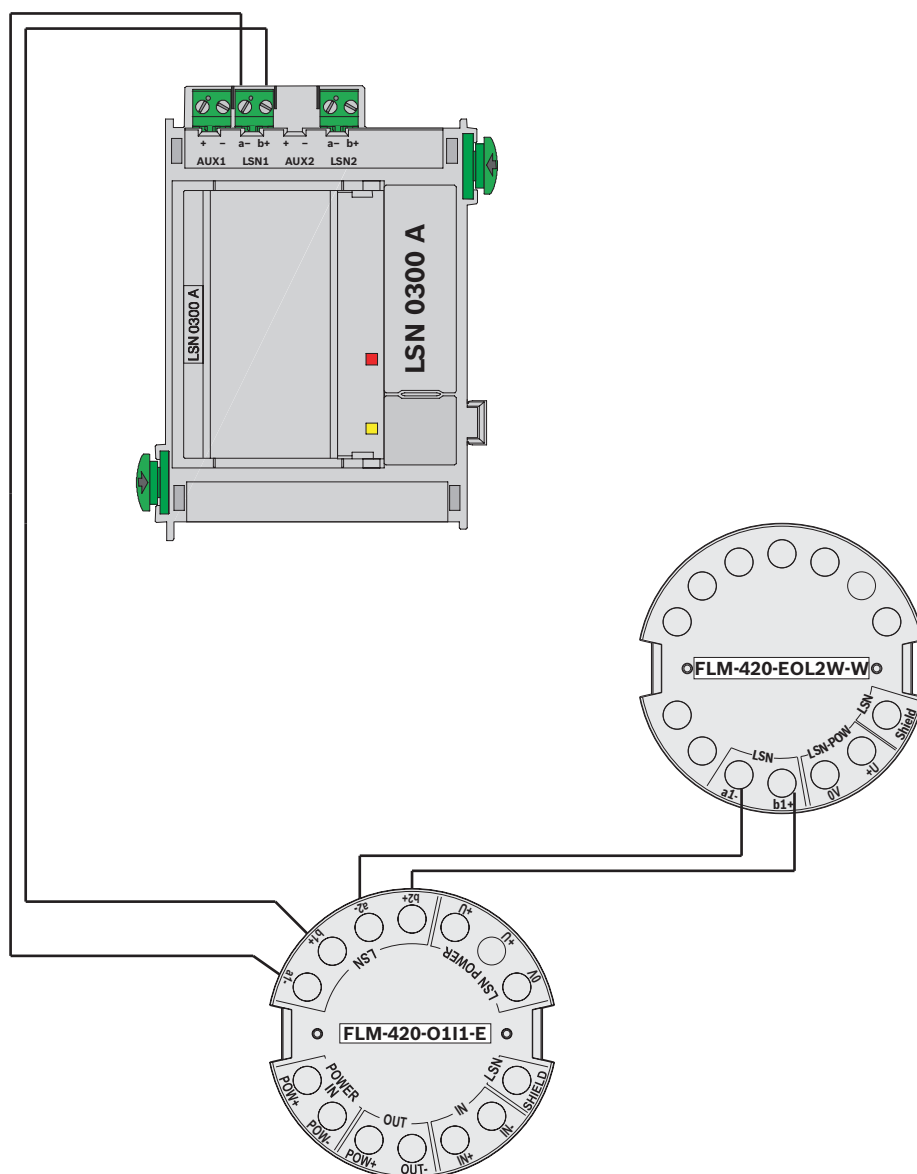


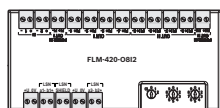
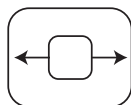


FLM-420-O1I1-E

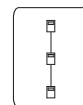


ELS VdS 2489

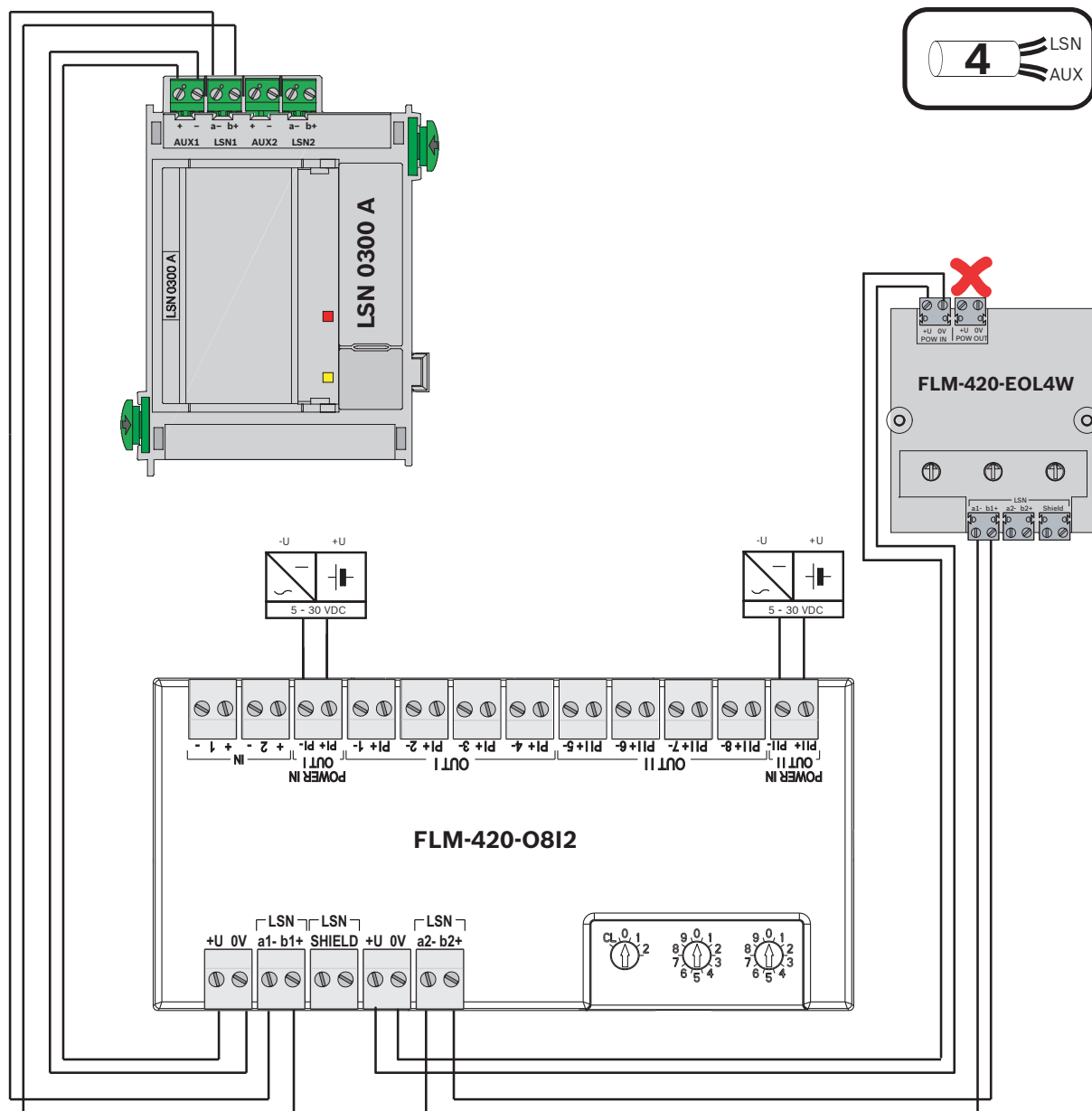


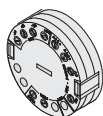
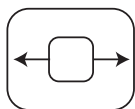


FLM-420-08I2-S

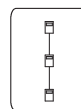


ELS VdS 2489

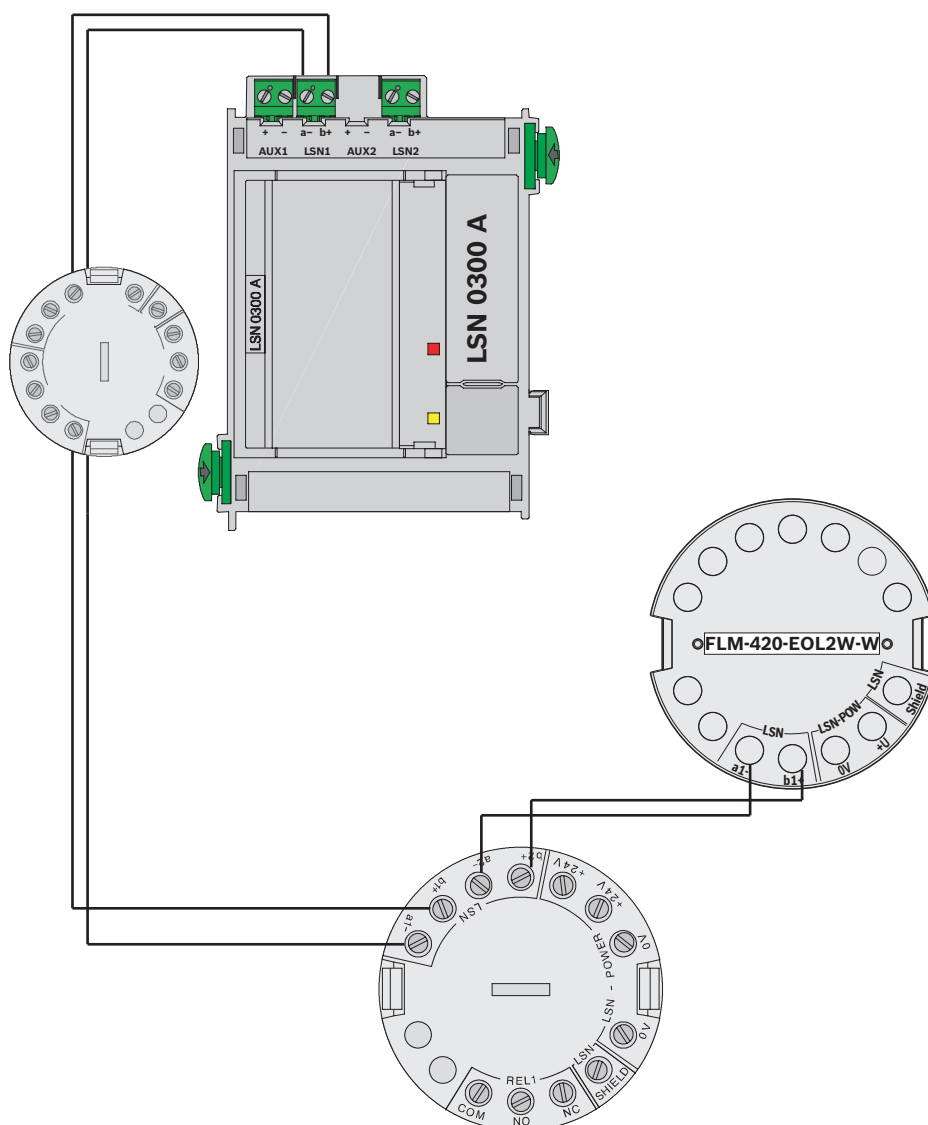


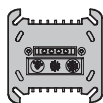
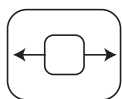
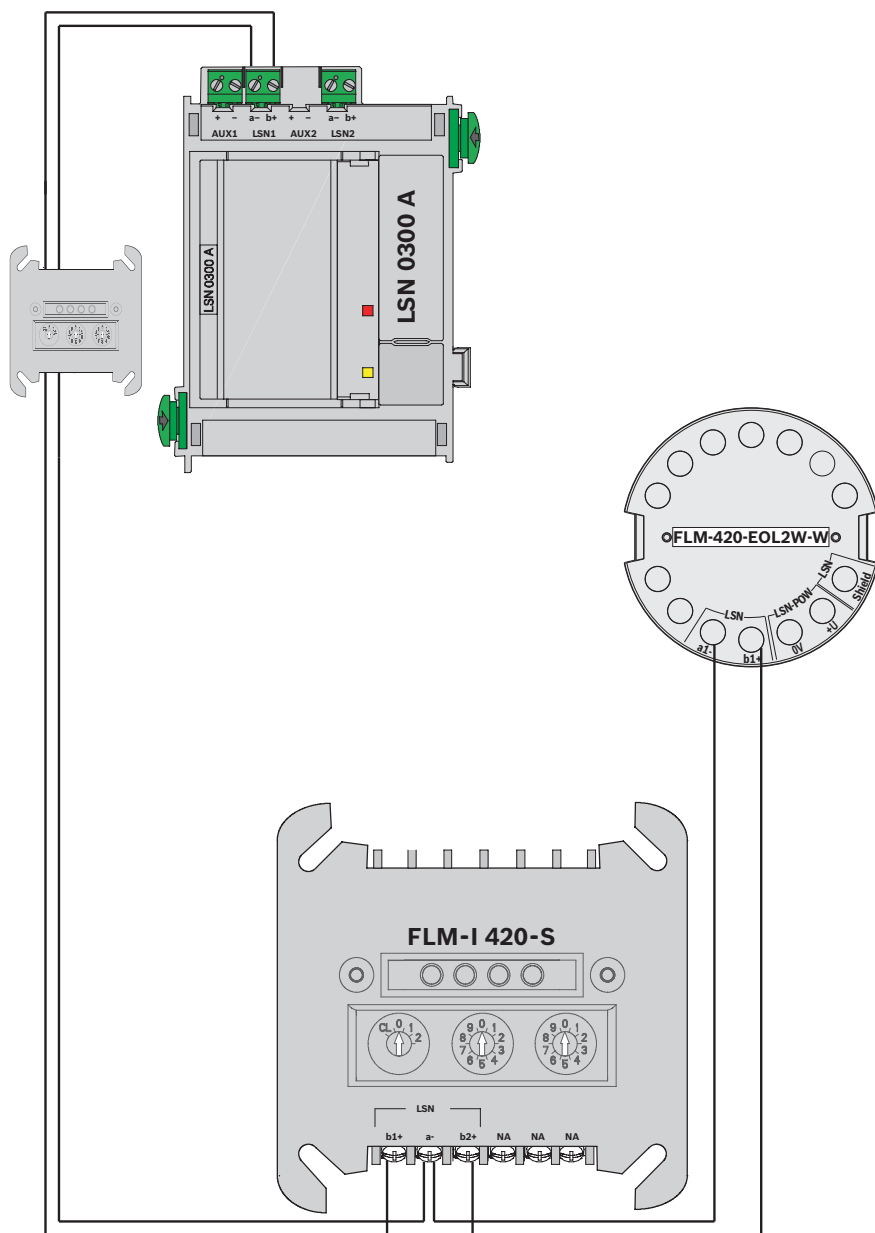


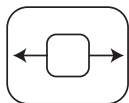
FLM-420-I2-E/-W
FLM-420-RLV1-E



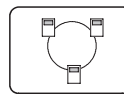
ELS VdS 2489



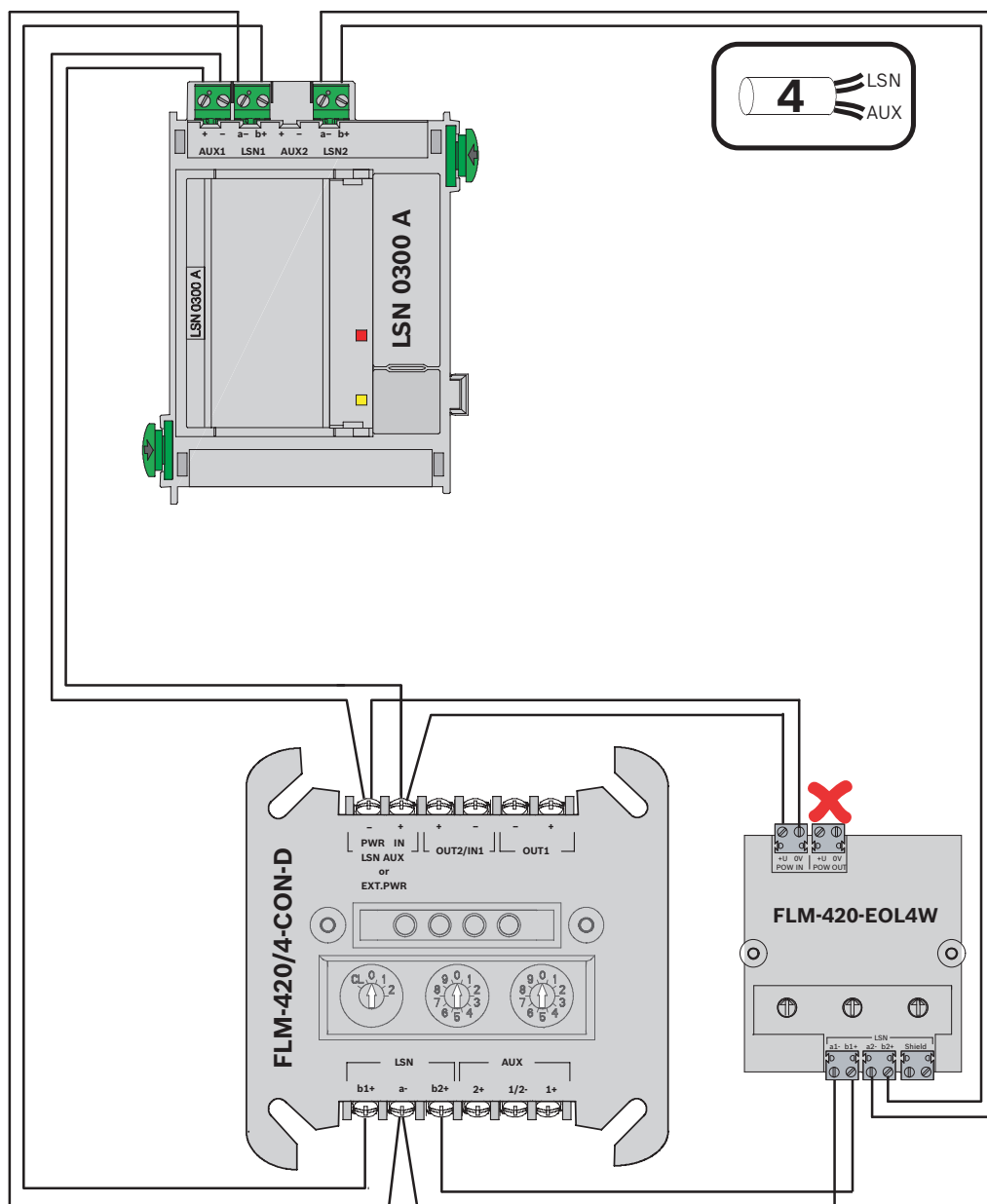
**FLM-I 420-S****ELS VdS 2489**

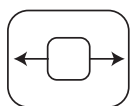
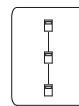
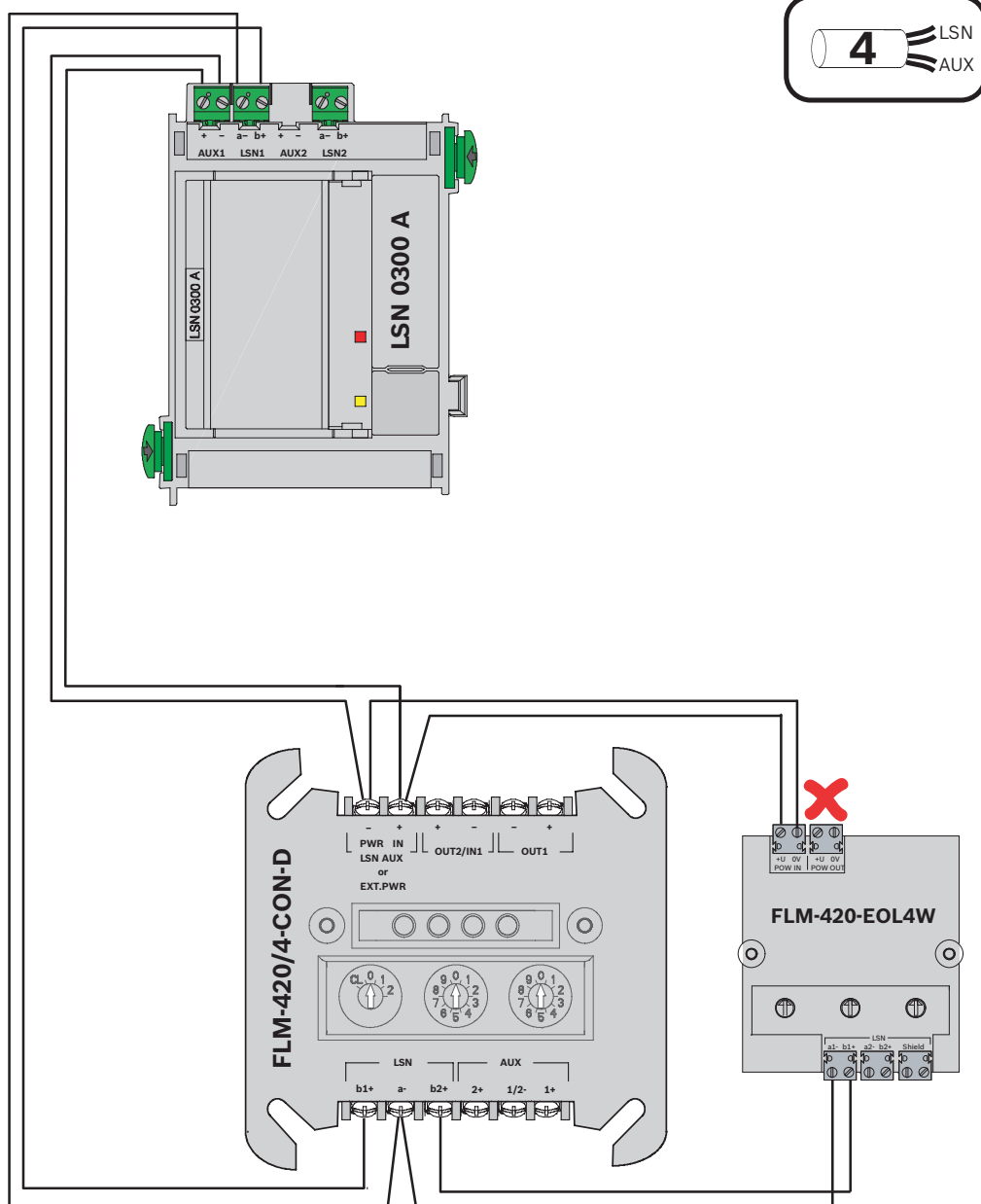


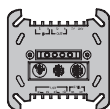
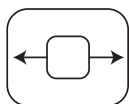
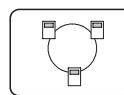
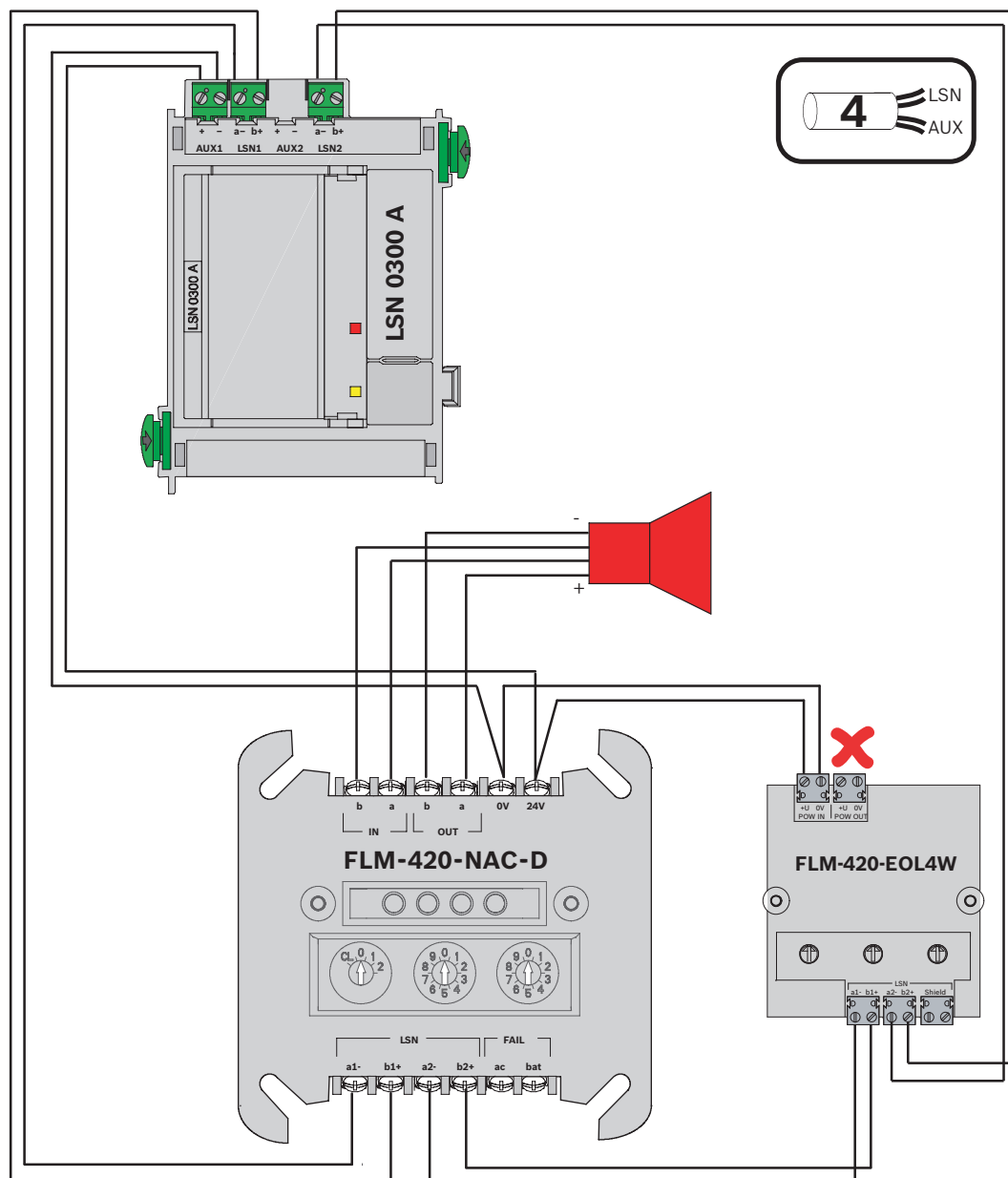
**FLM-420/
4-CON-D**

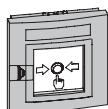
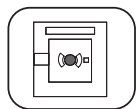
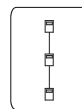
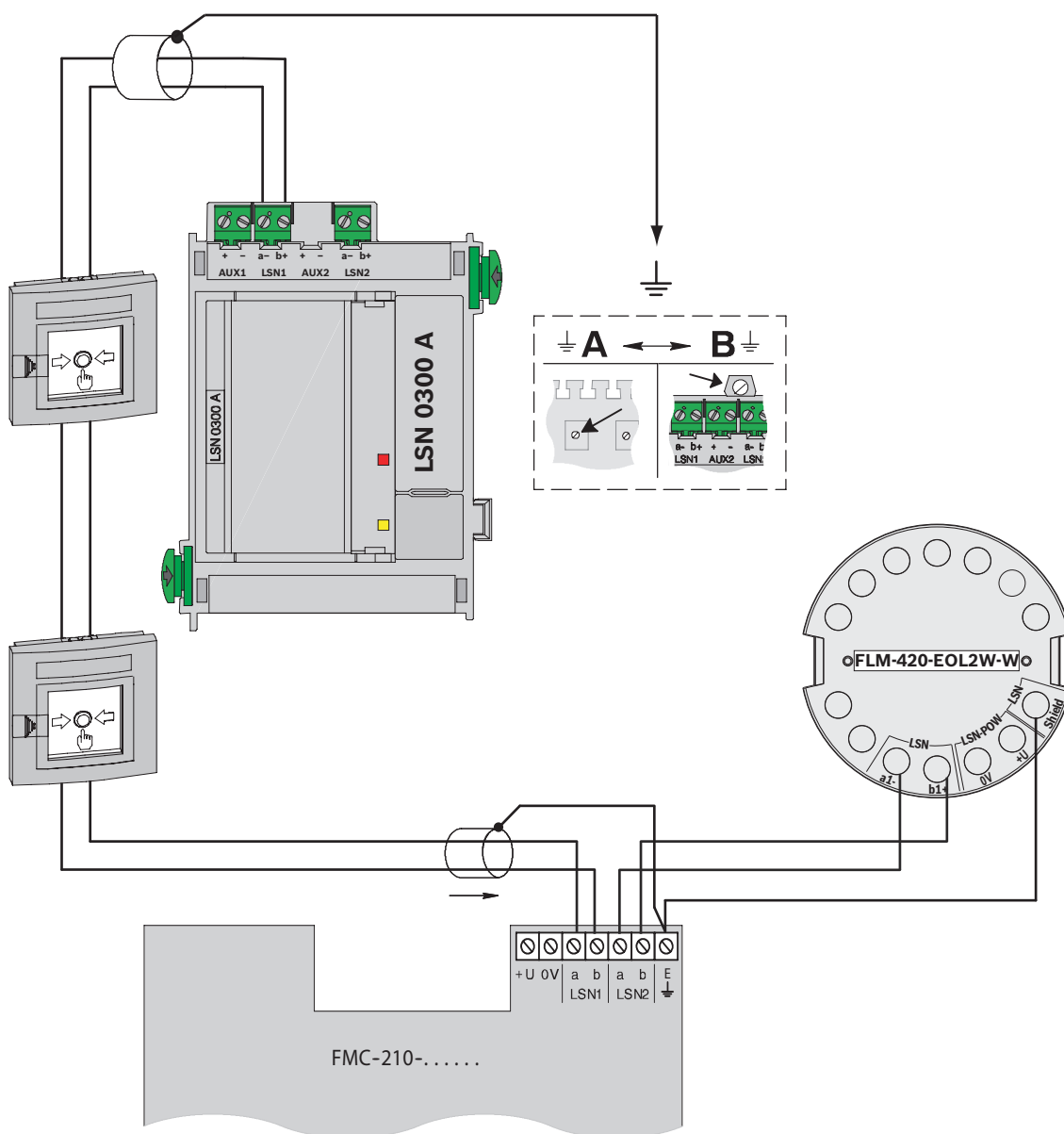


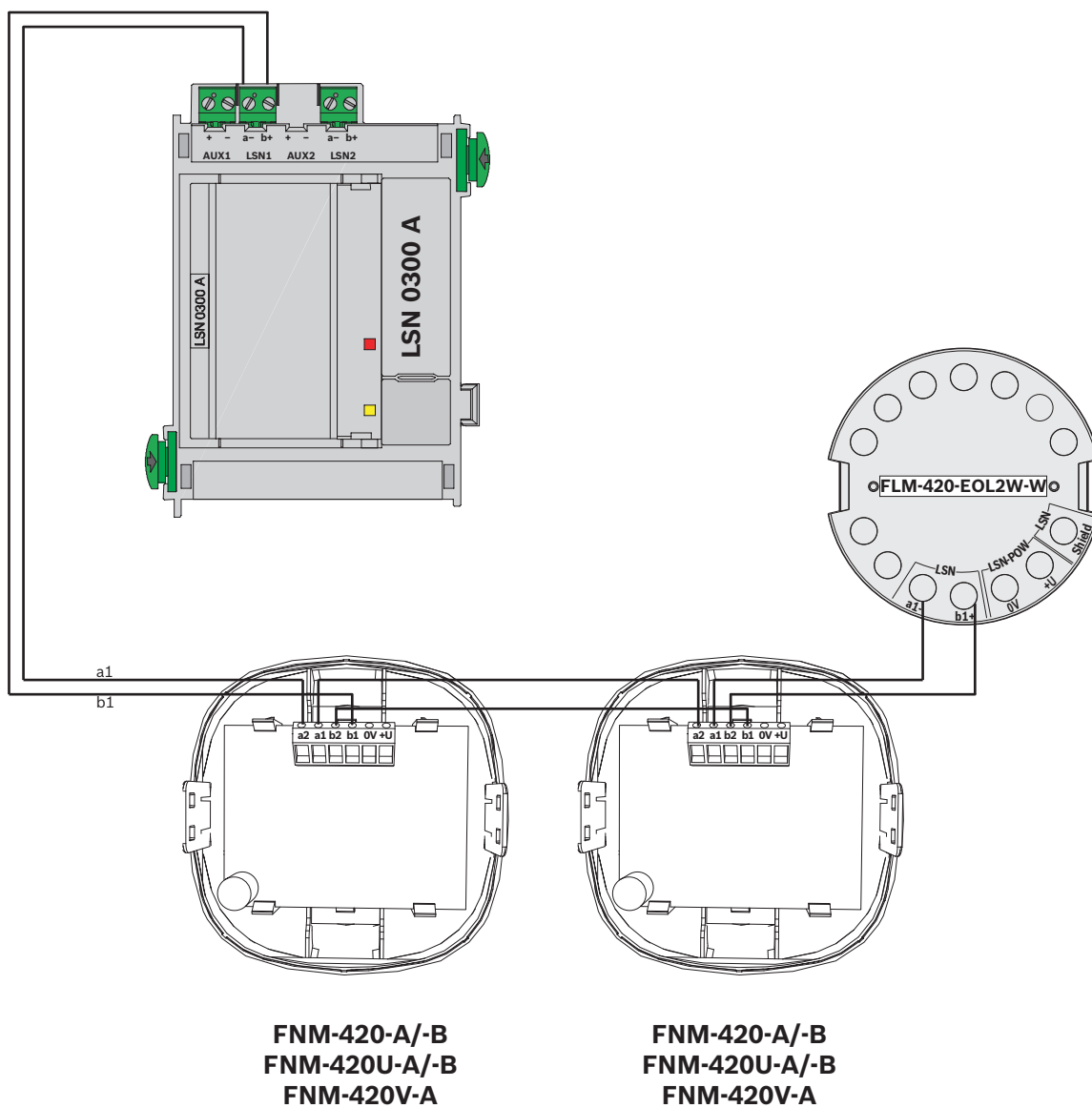
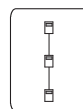
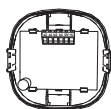
ELS VdS 2489



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

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

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

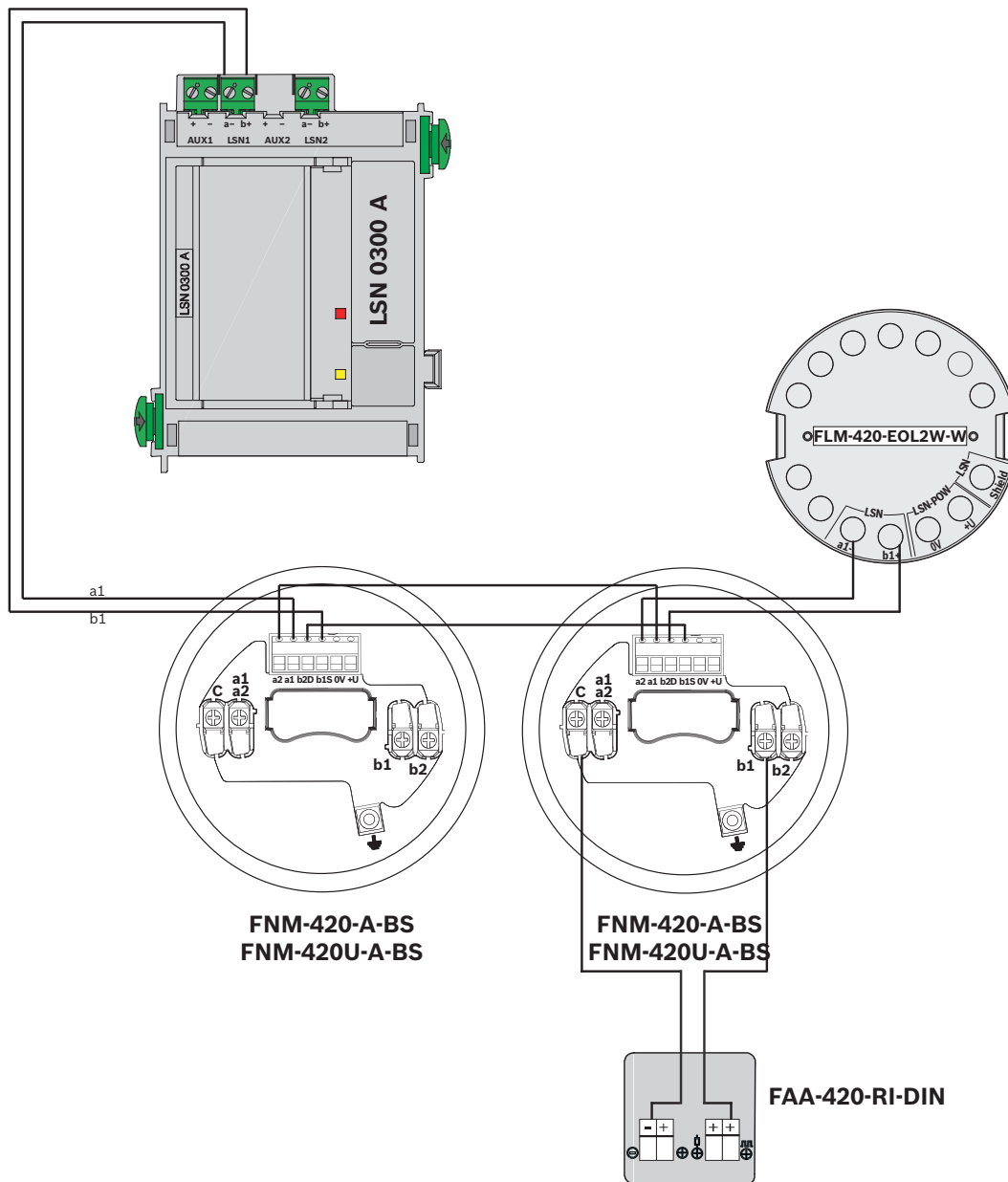




FNM-420-A-BS
FNM-420U-A-BS



ELS **VdS 2489**

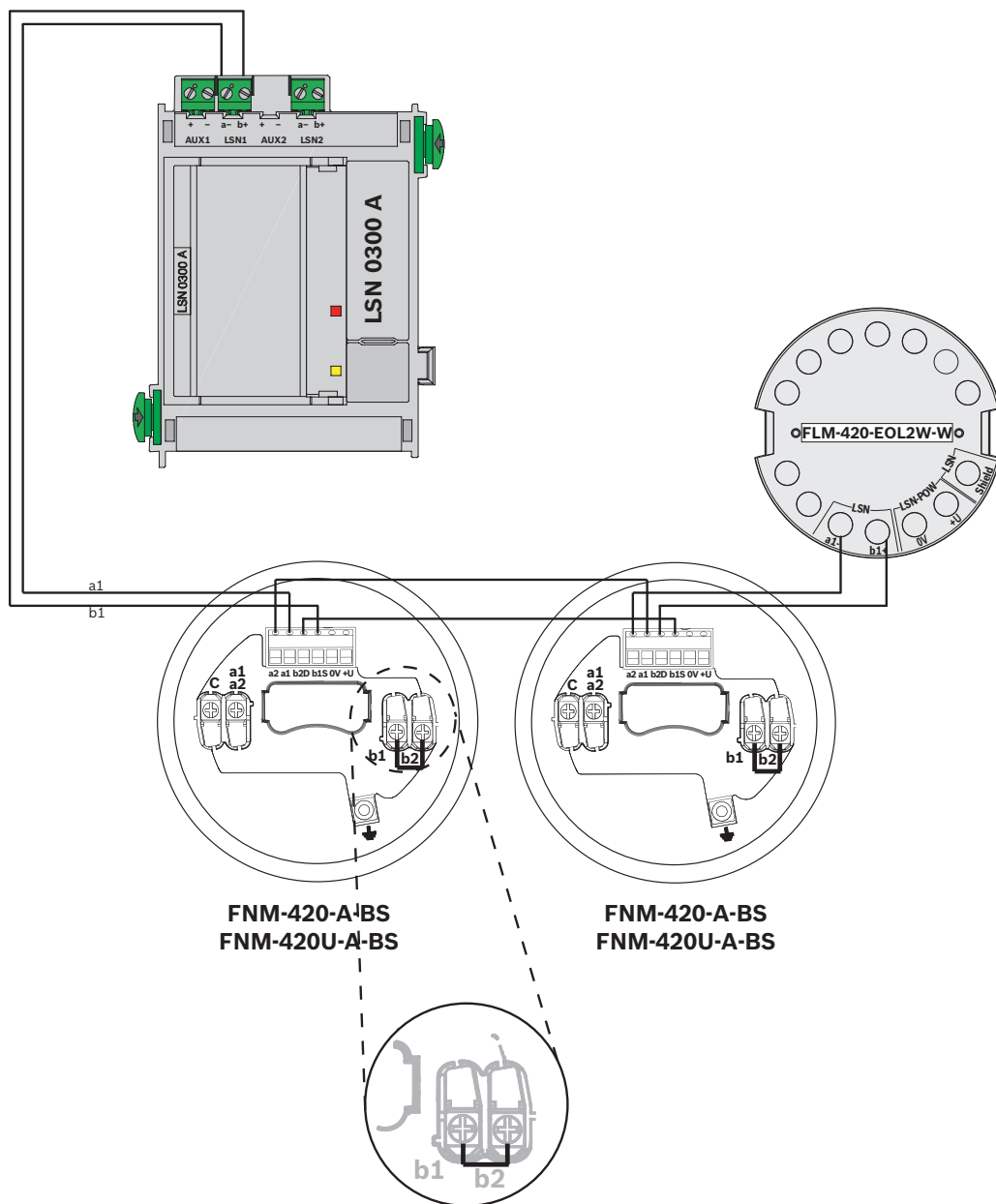




FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

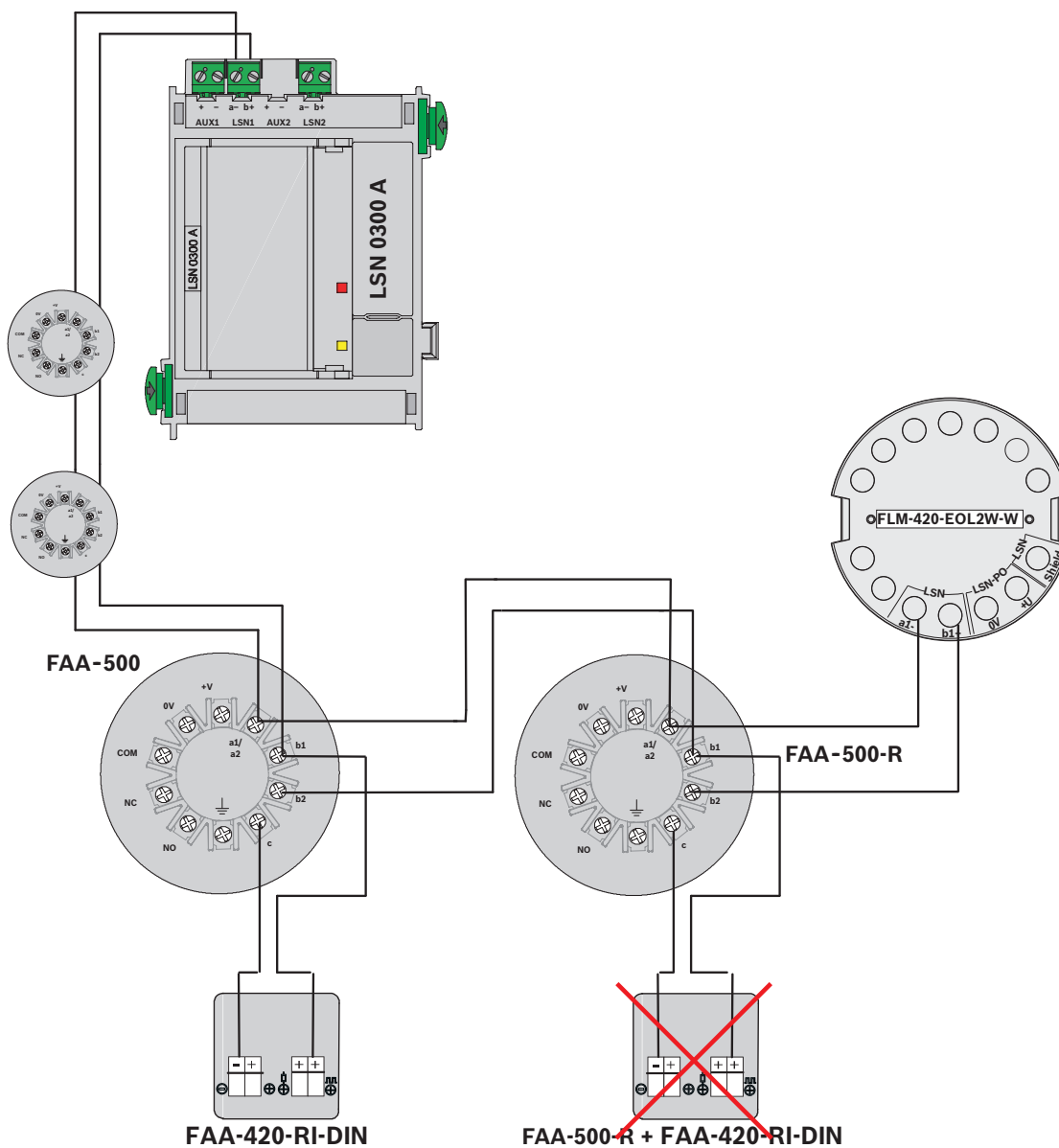




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

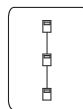


ELS VdS 2489

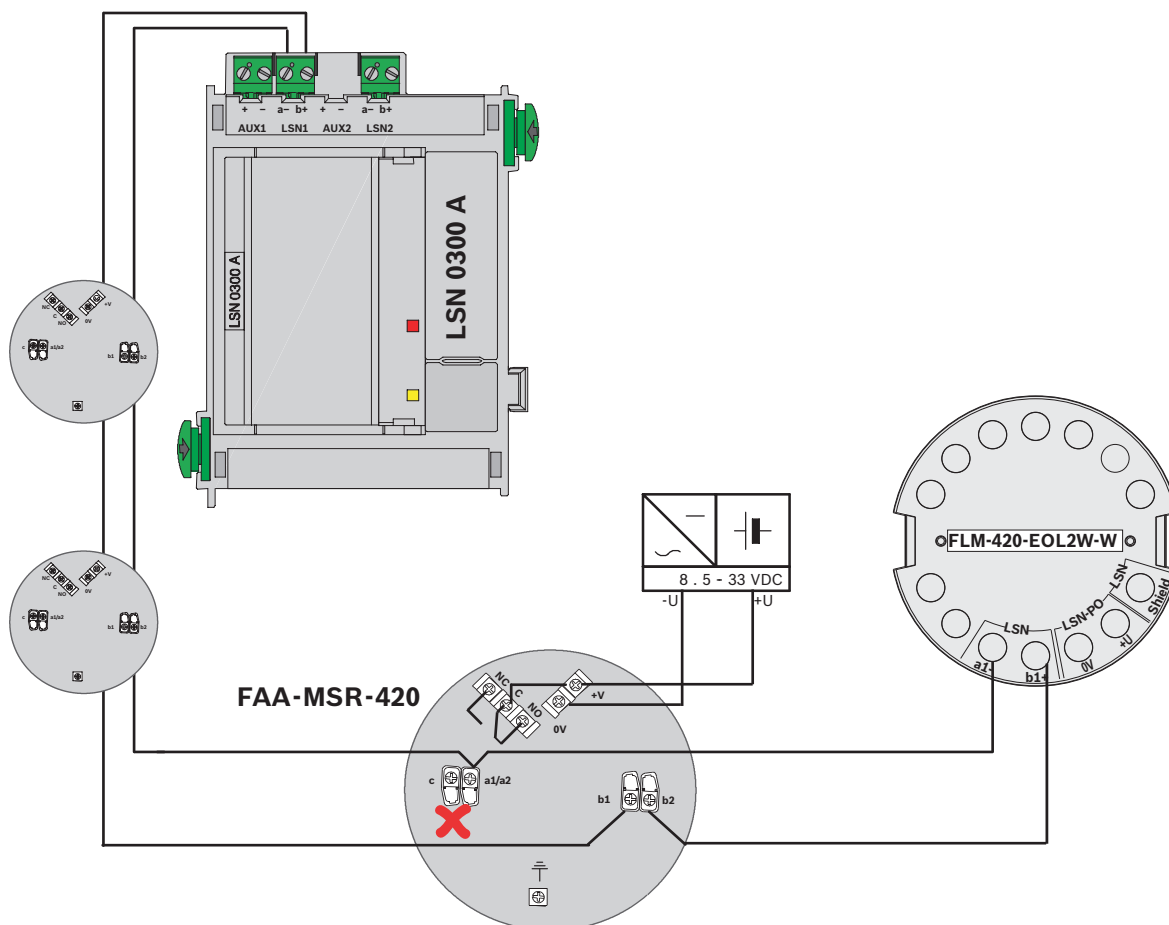




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

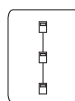


ELS VdS 2489

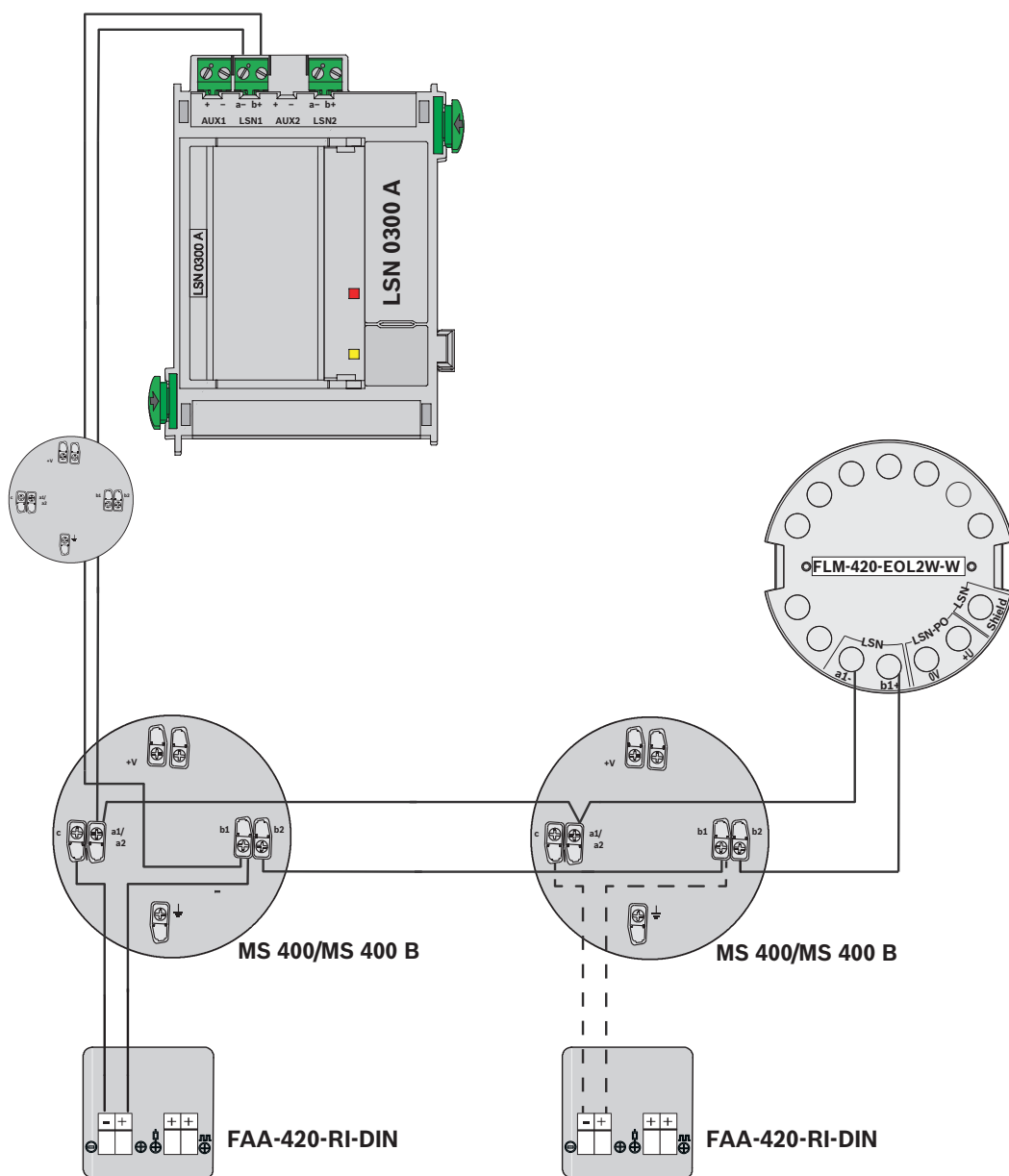


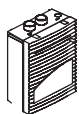


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470

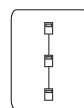


ELS VdS 2489

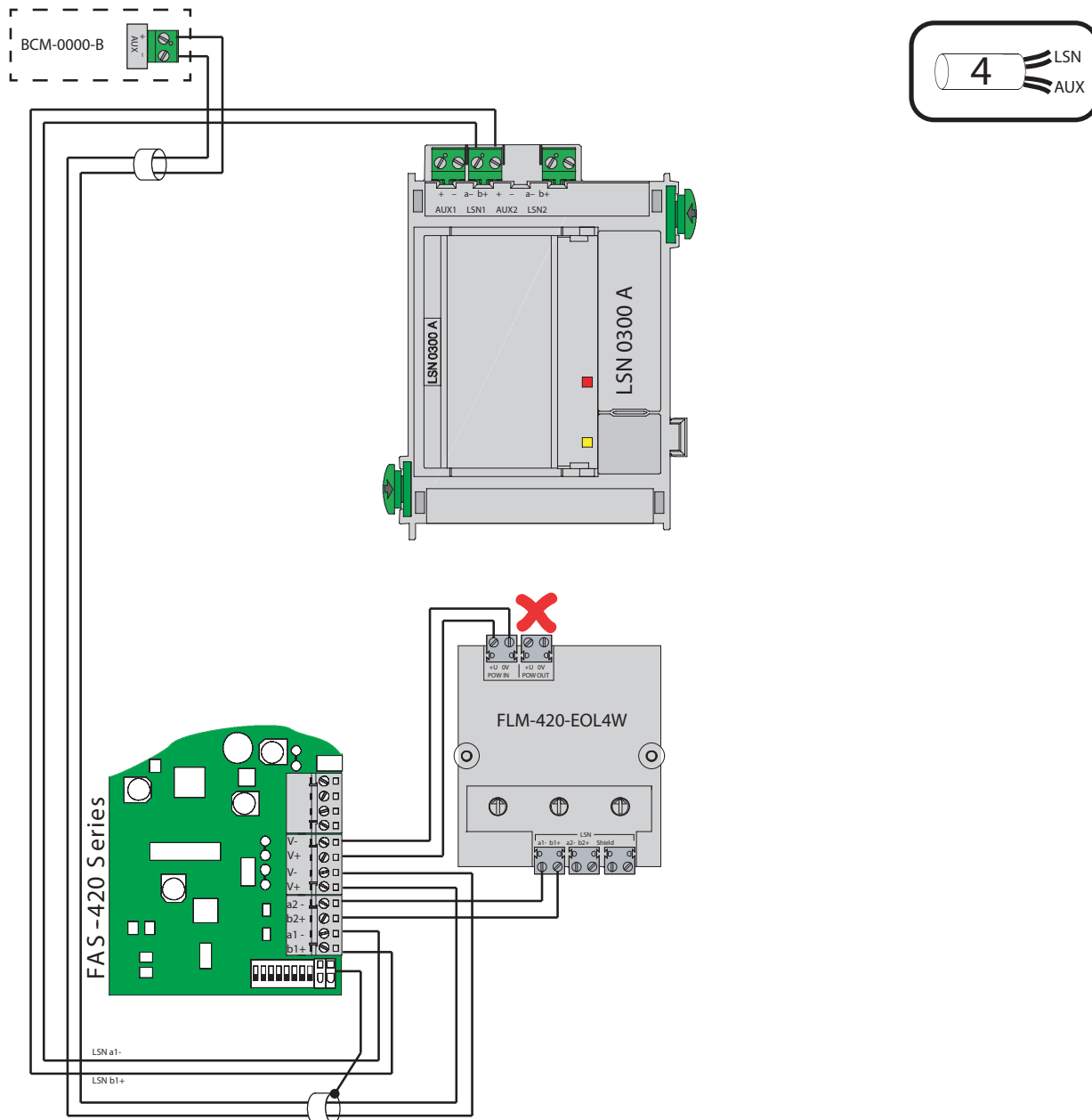


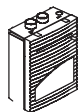


FAS-420 Series

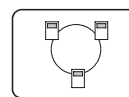


ELS VdS 2489



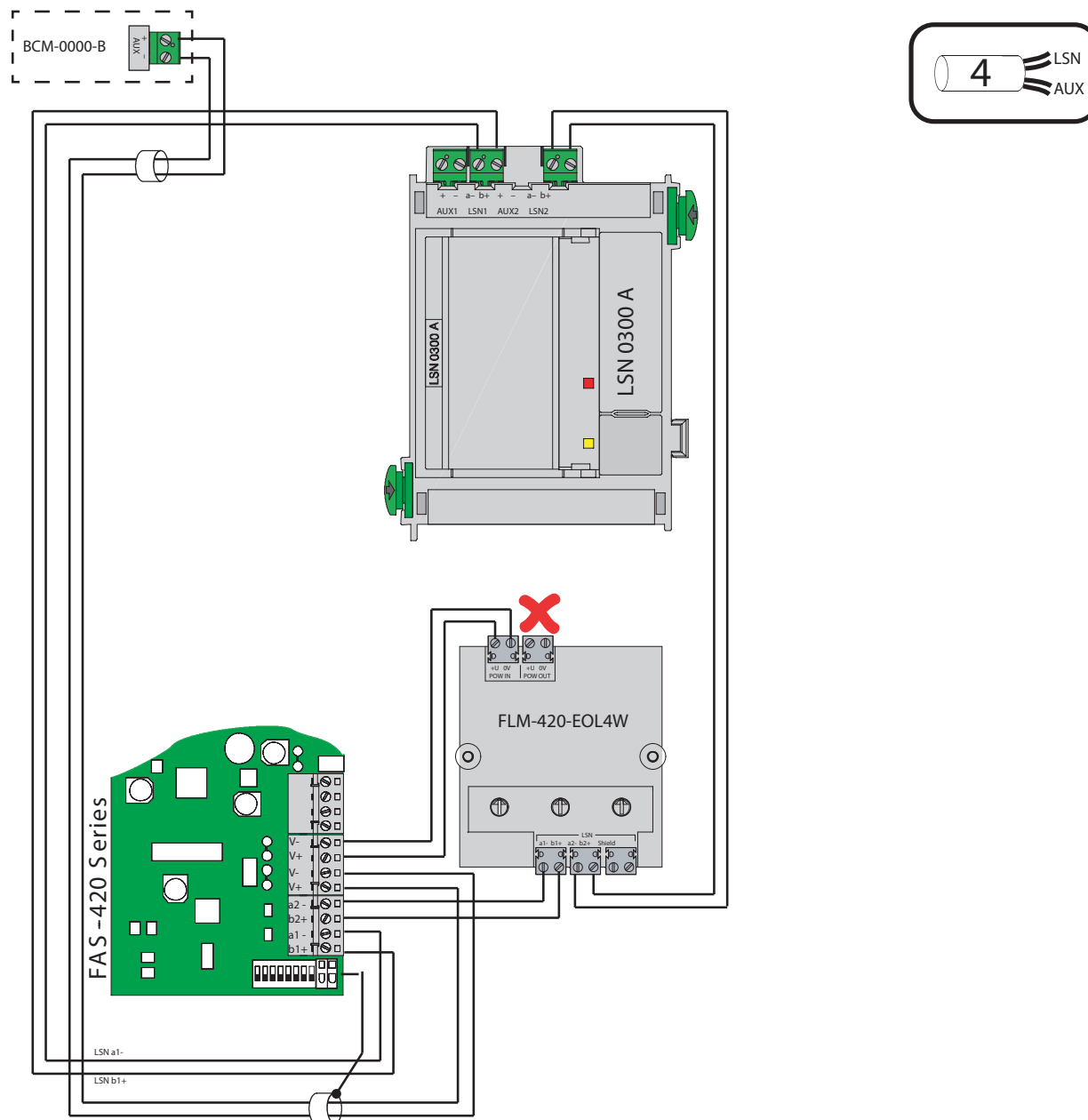


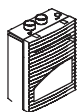
FAS-420 Series



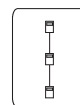
ELS

VdS 2489



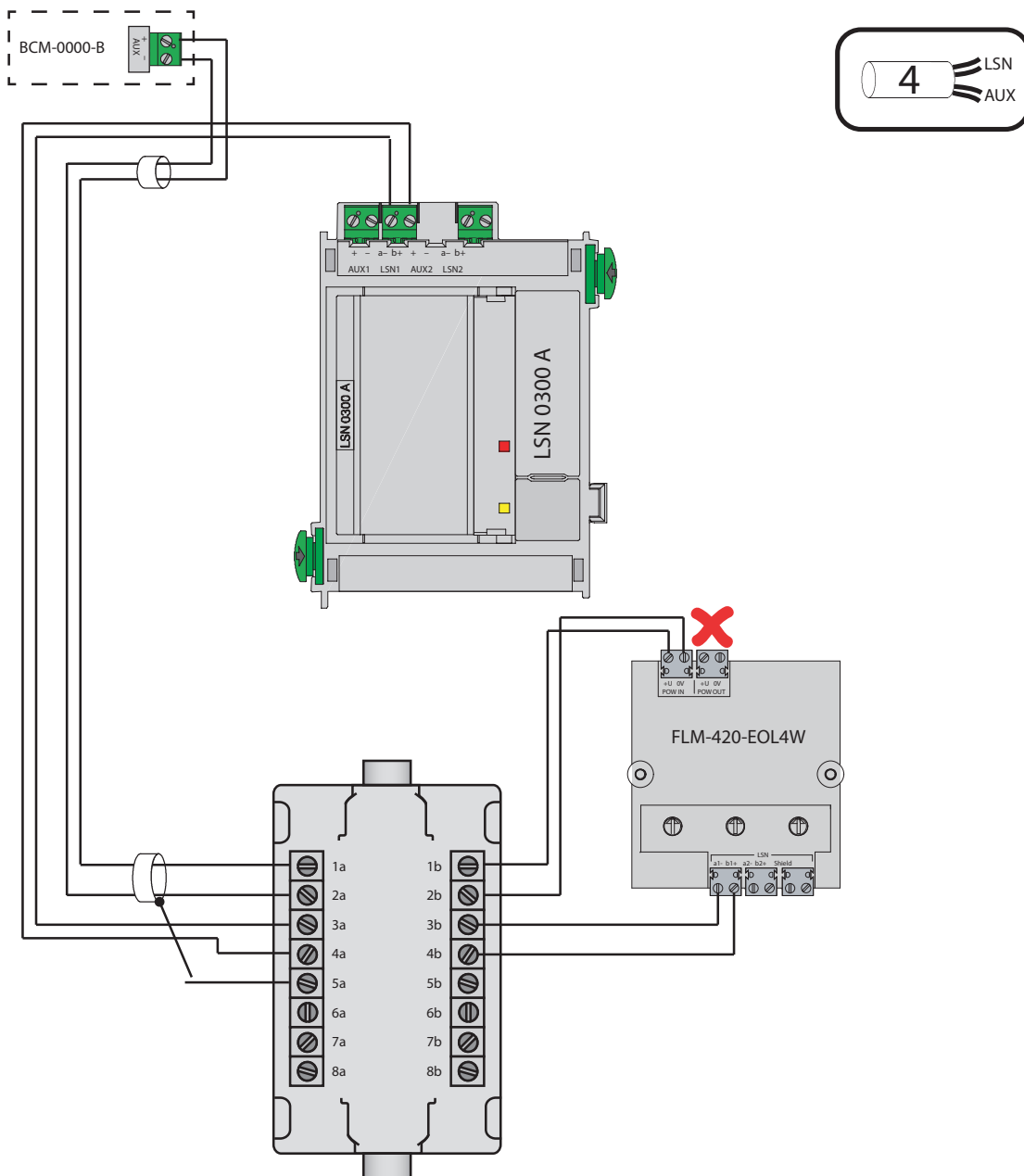


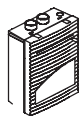
FAS-420-TM Series



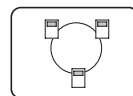
ELS

VdS 2489

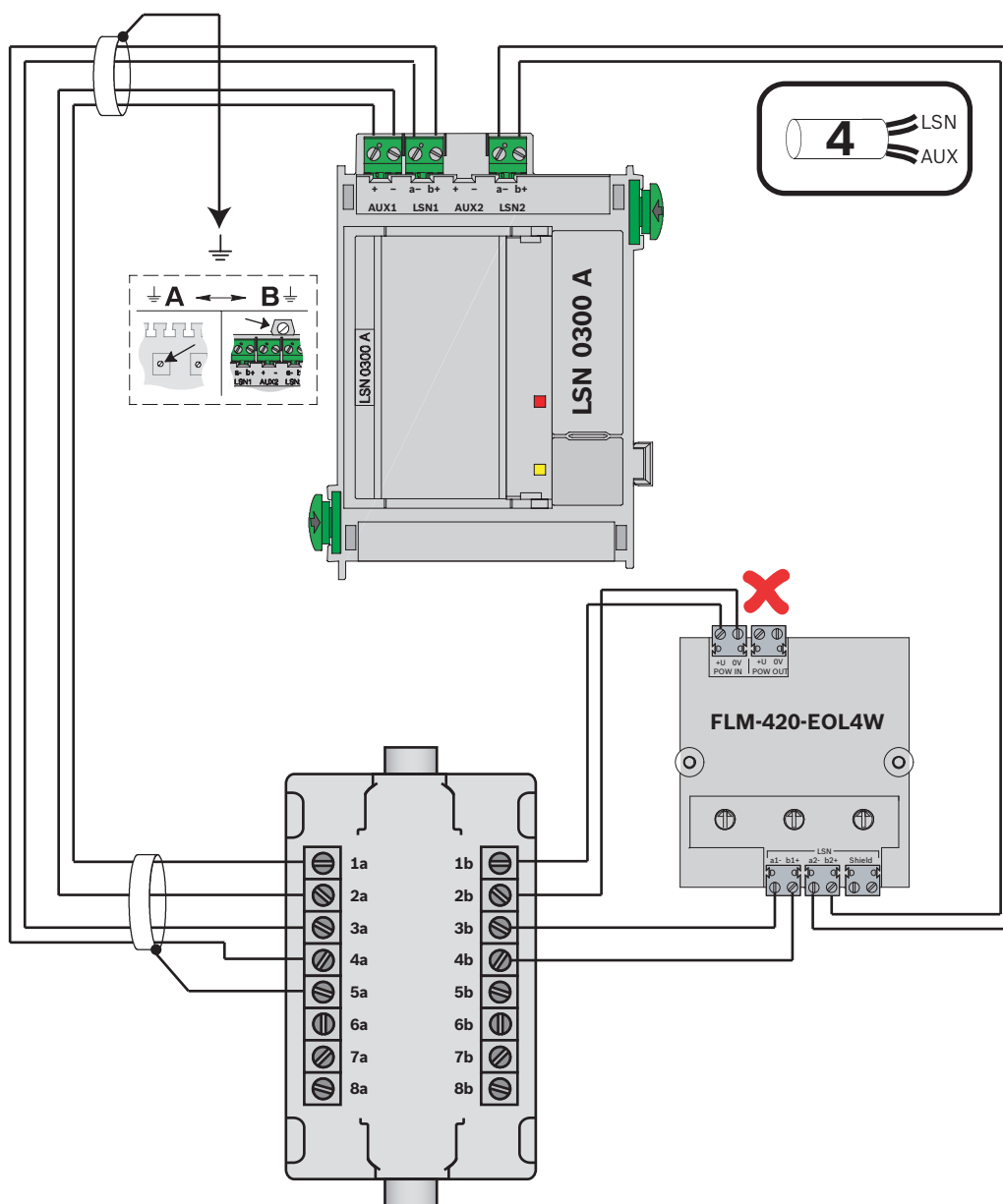


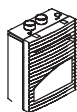


FAS-420-TM Series

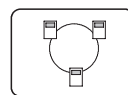


ELS VdS 2489



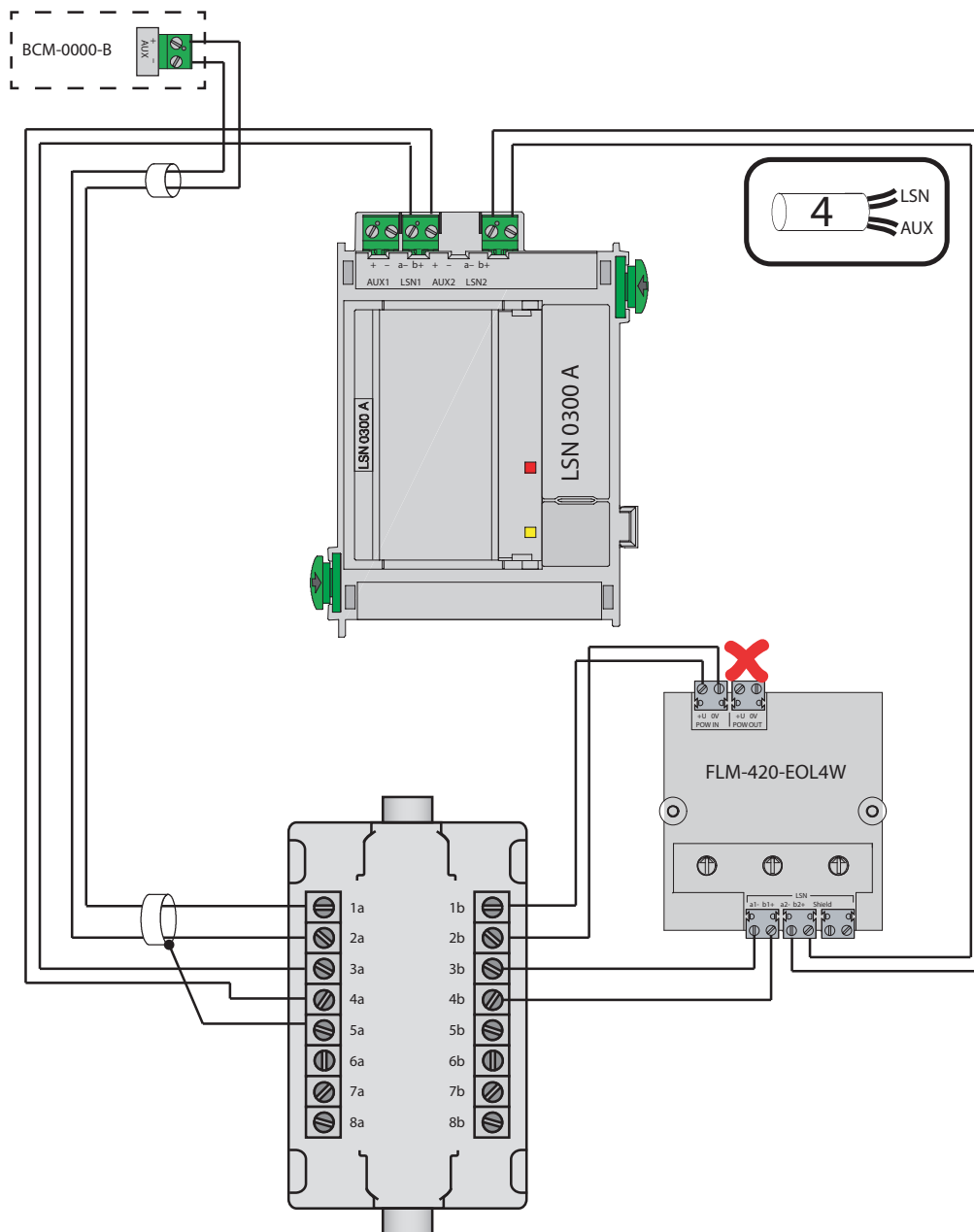


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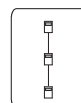
ELS

VdS 2489

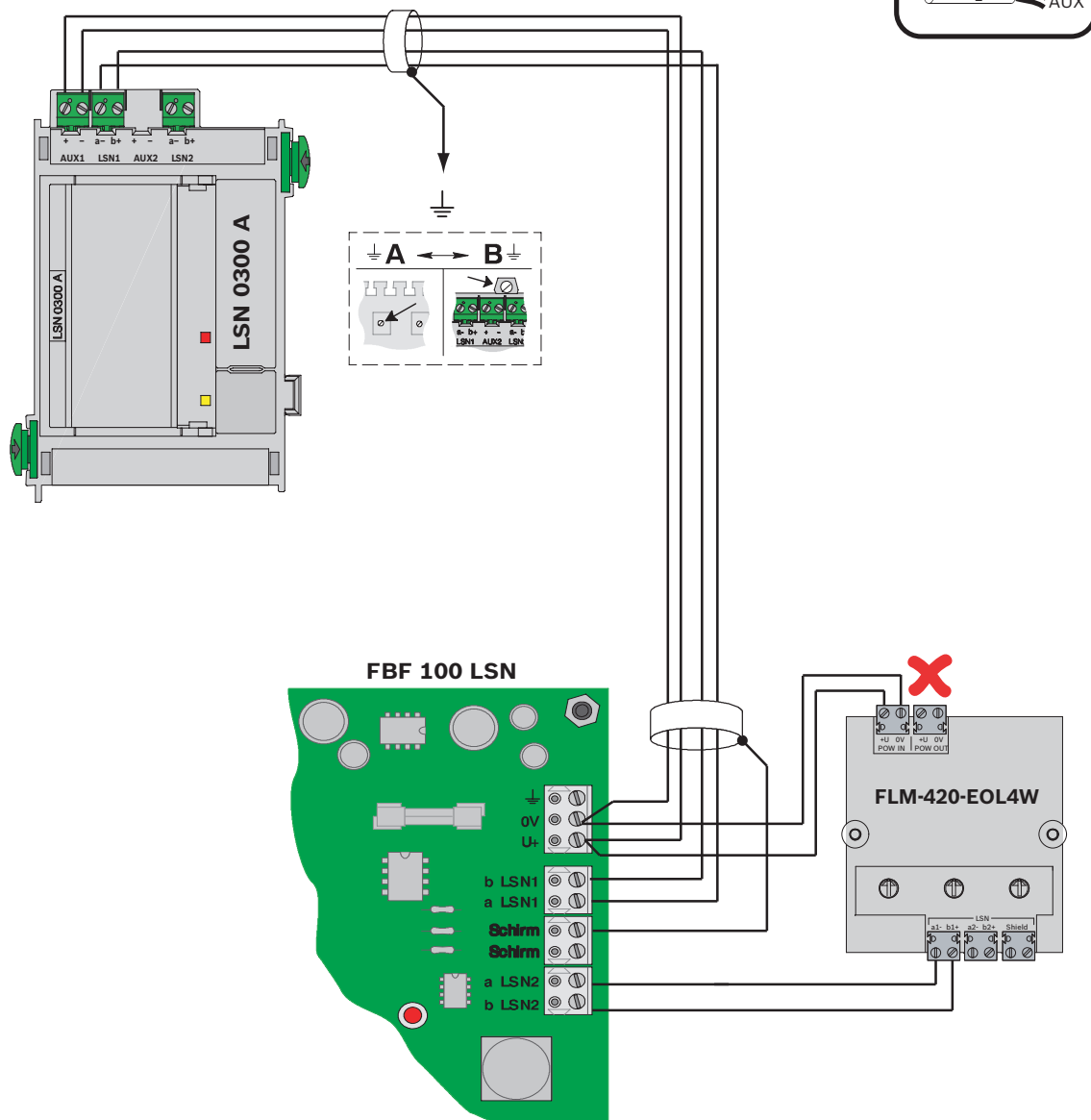


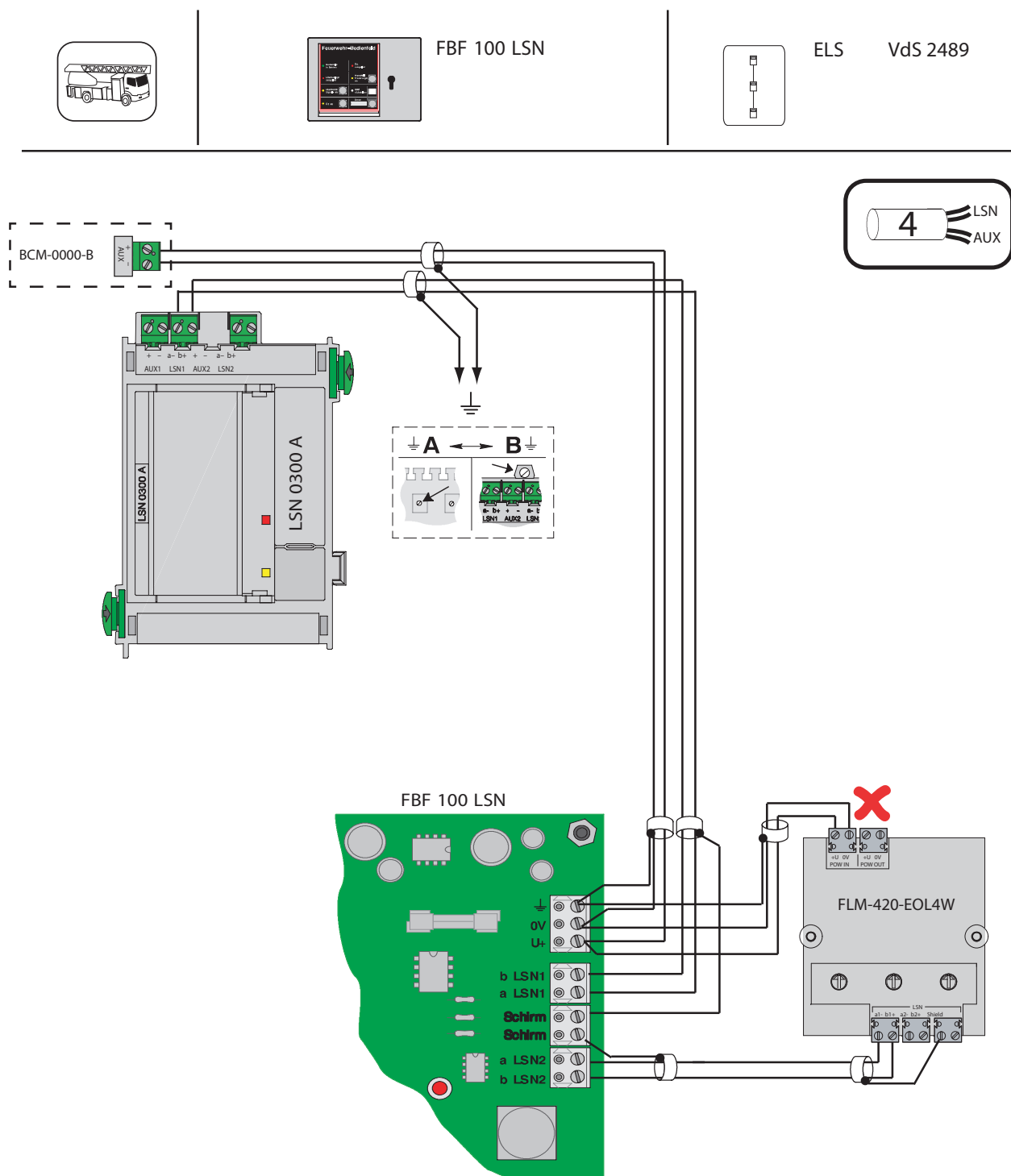


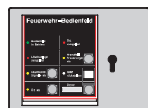
FBF 100 LSN



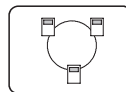
ELS VdS 2489



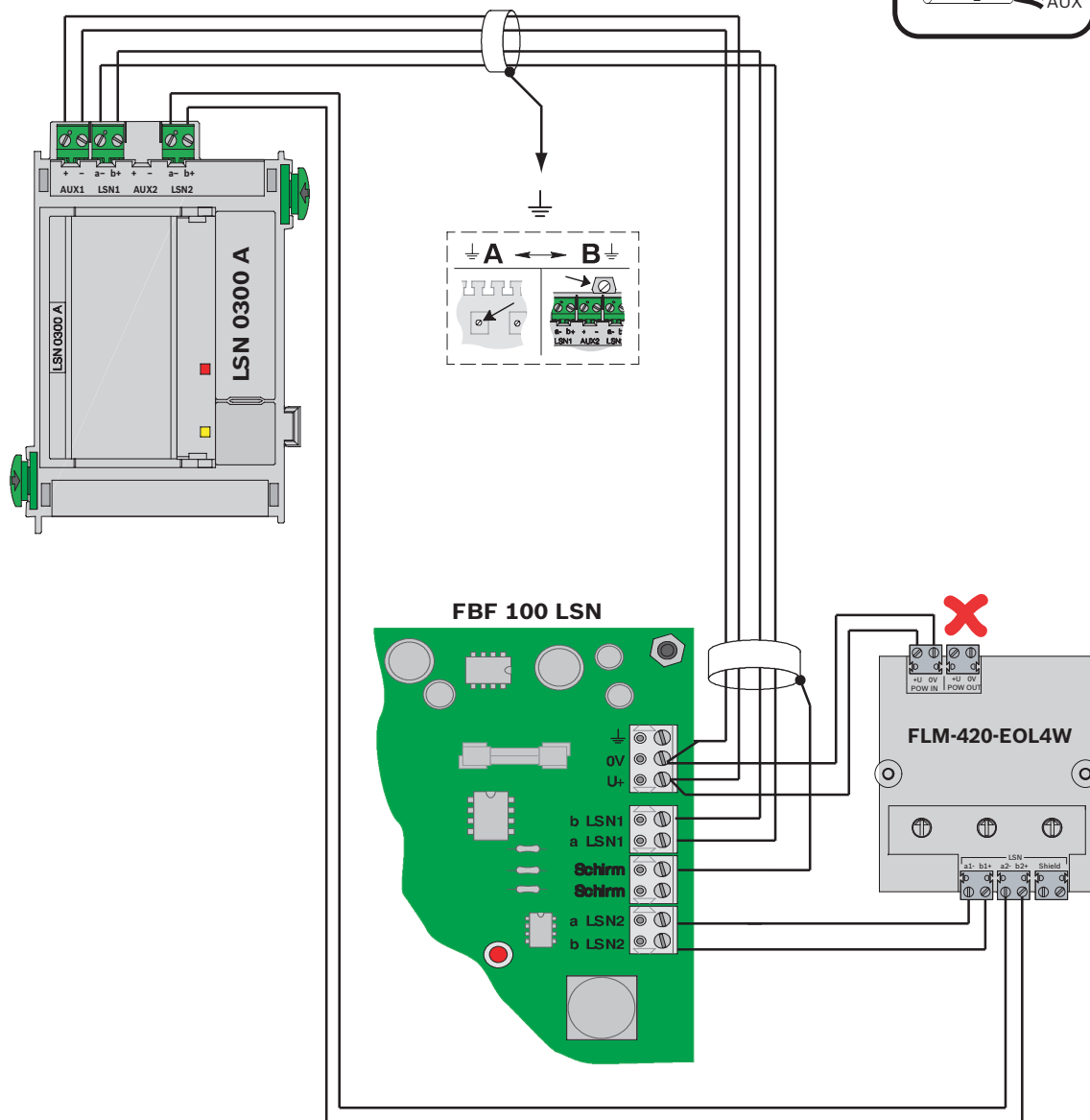




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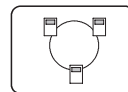


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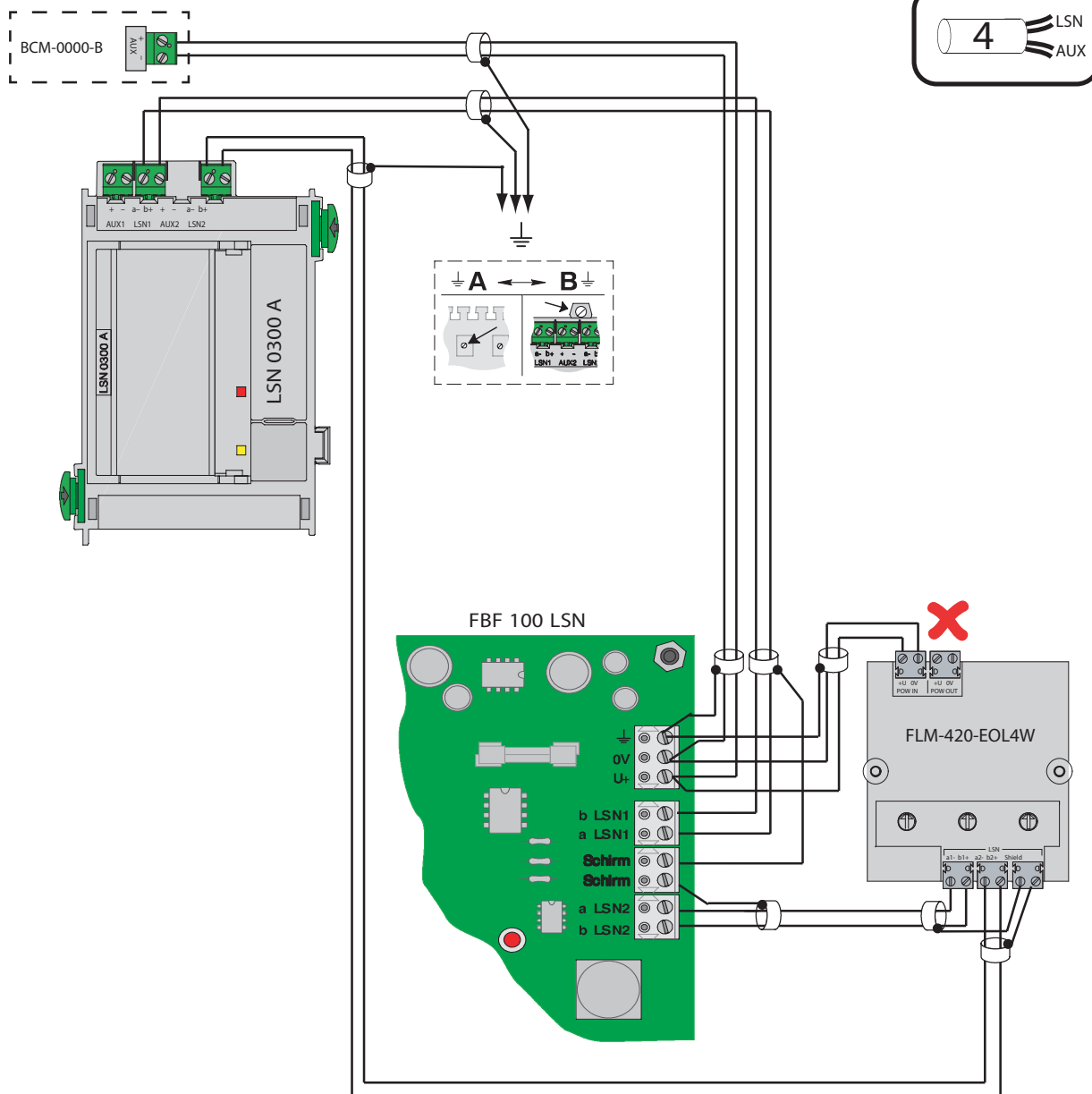


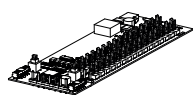


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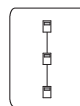


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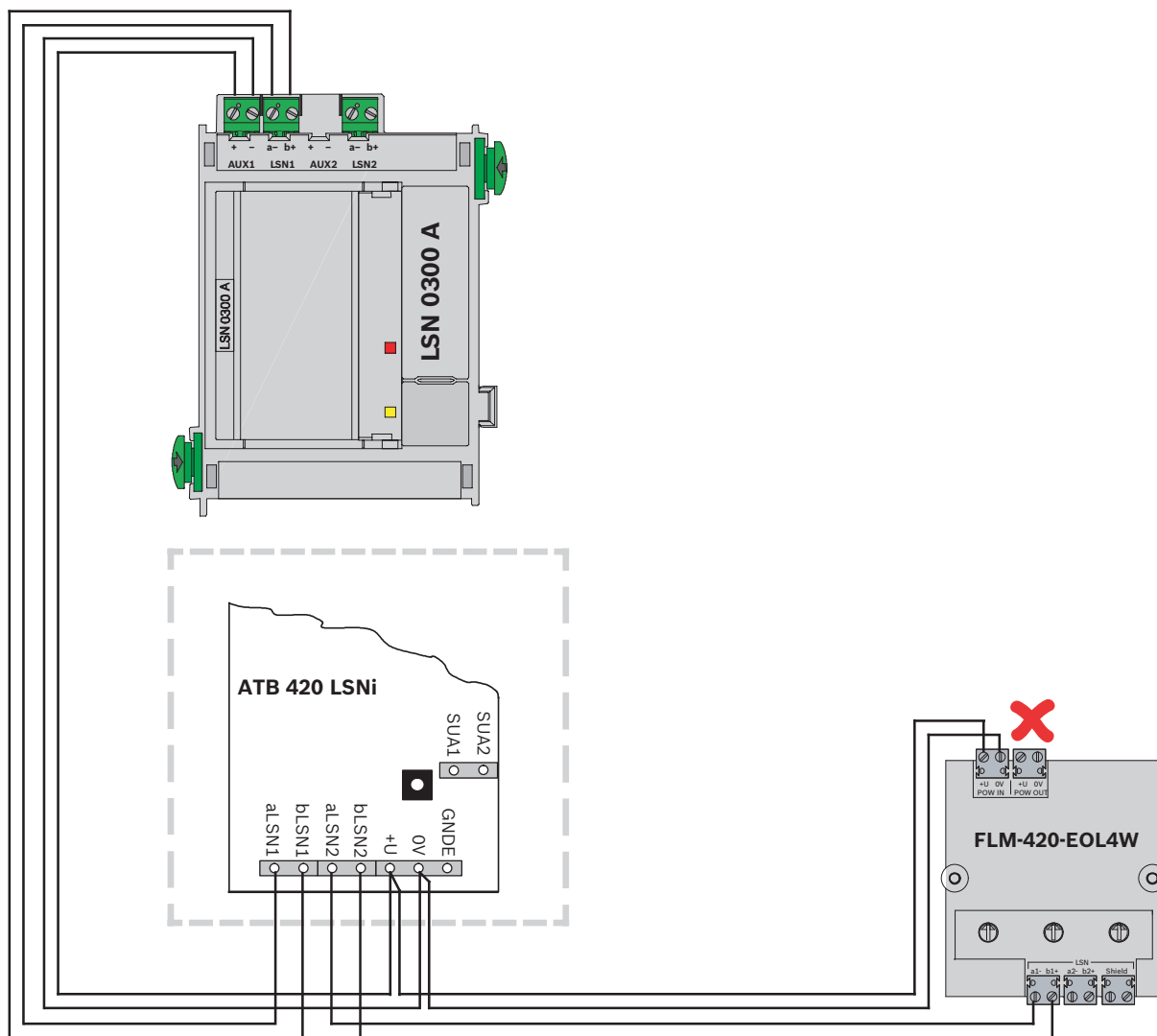


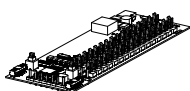
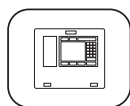


ATB 420 LSNi

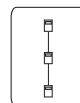


ELS VdS 2489

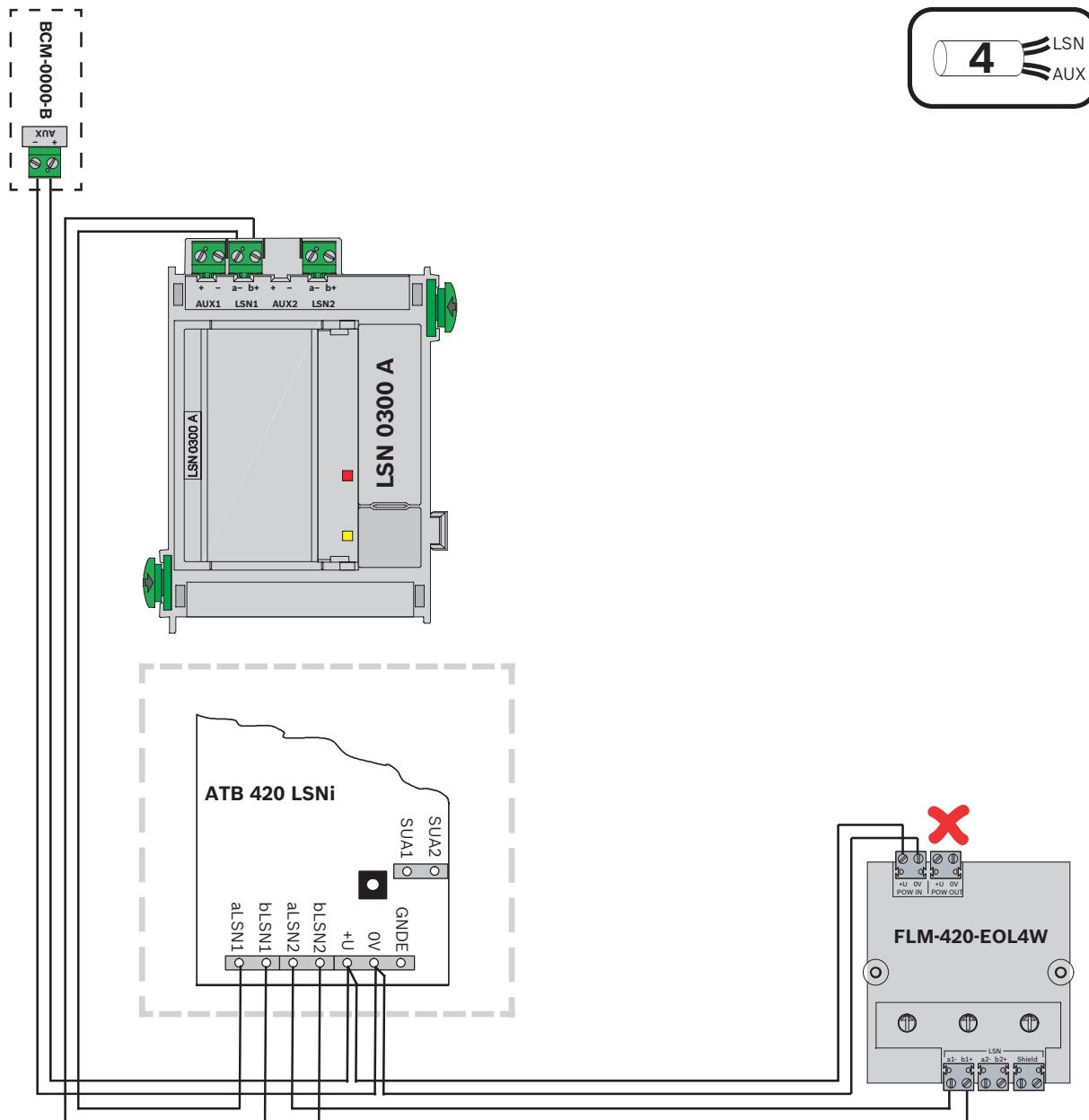


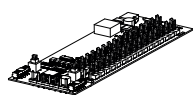


ATB 420 LSNi

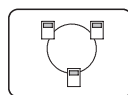


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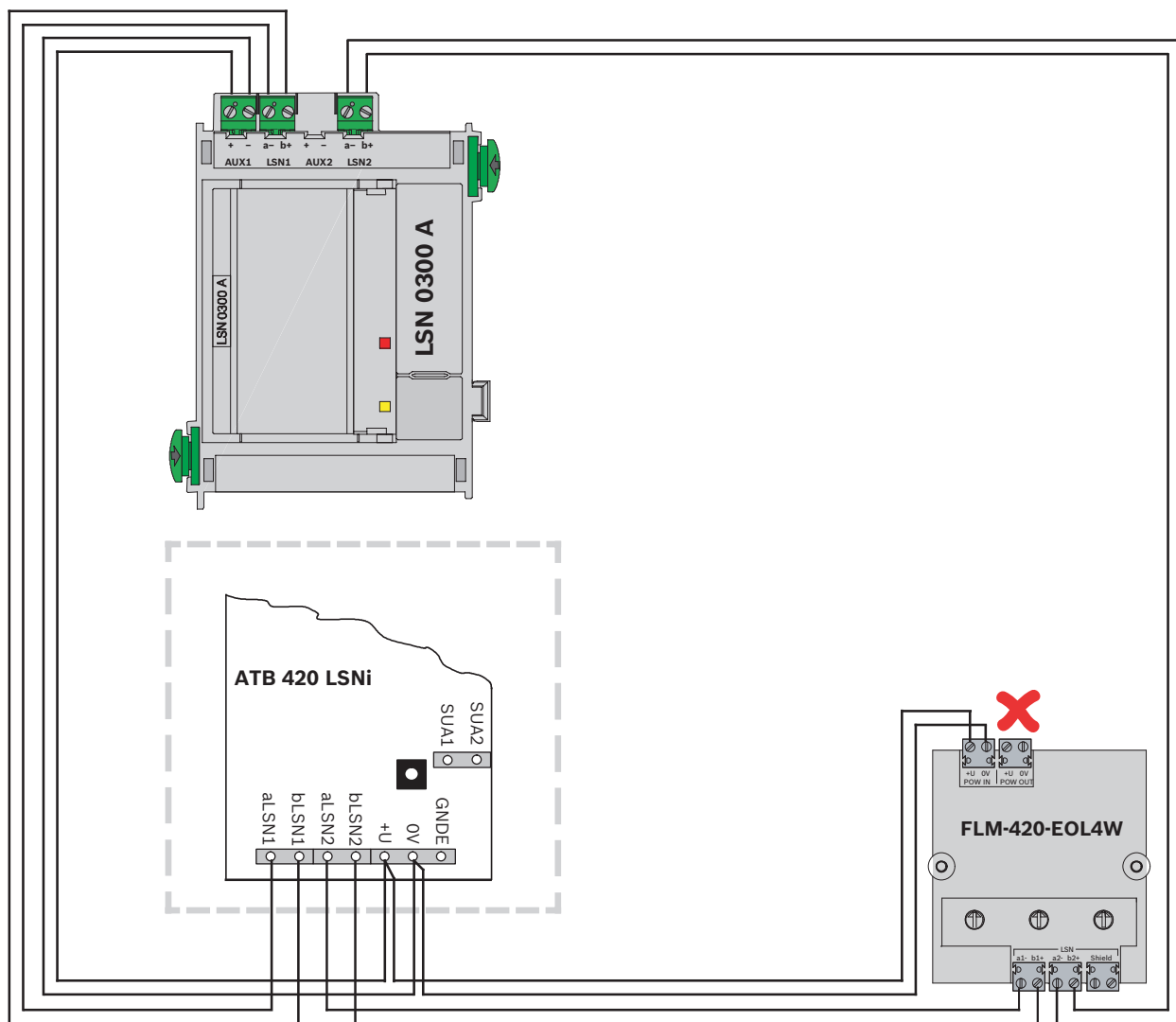


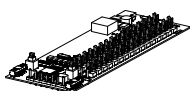


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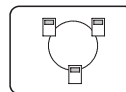


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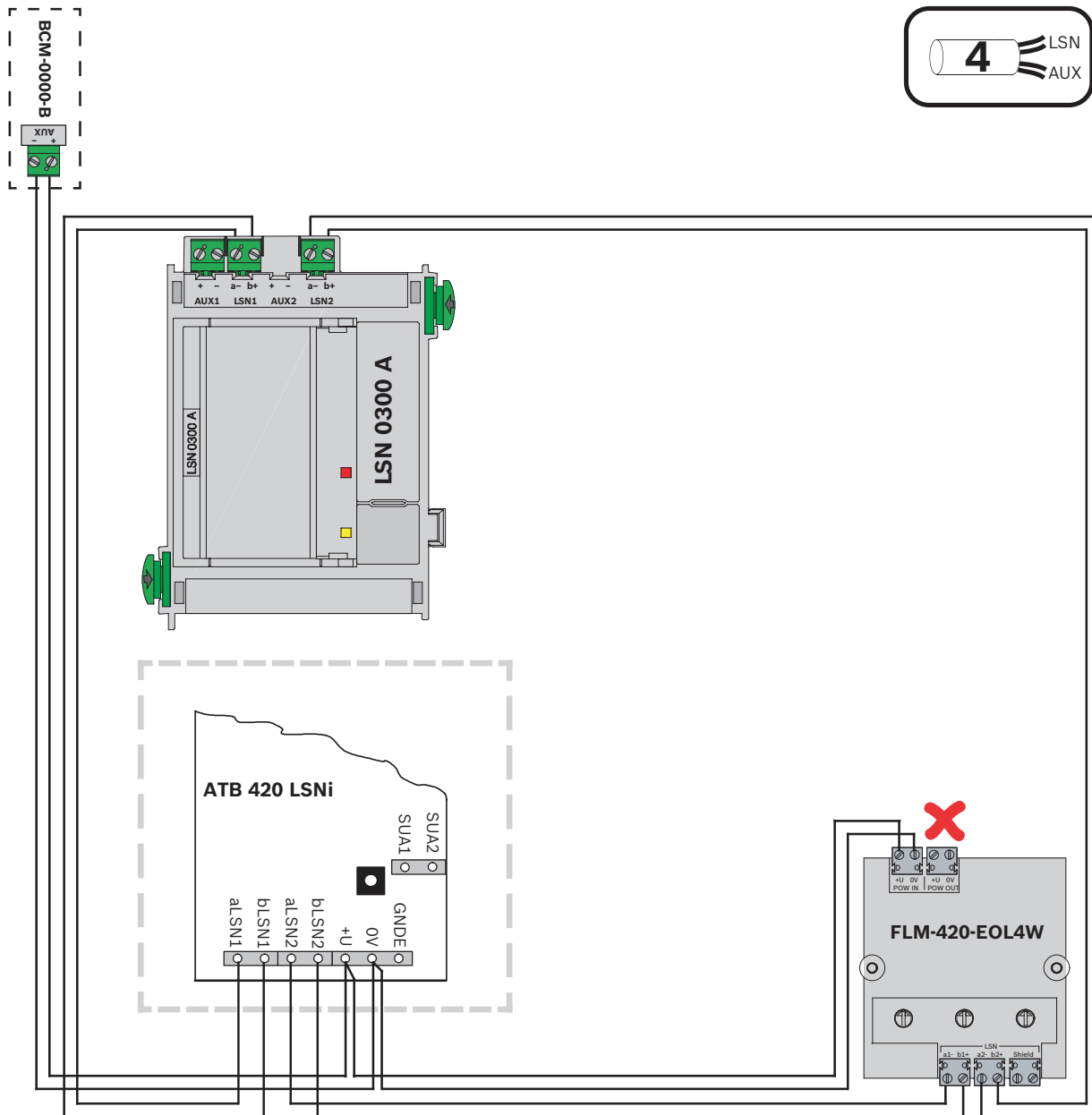




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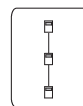


ELS VdS 2489

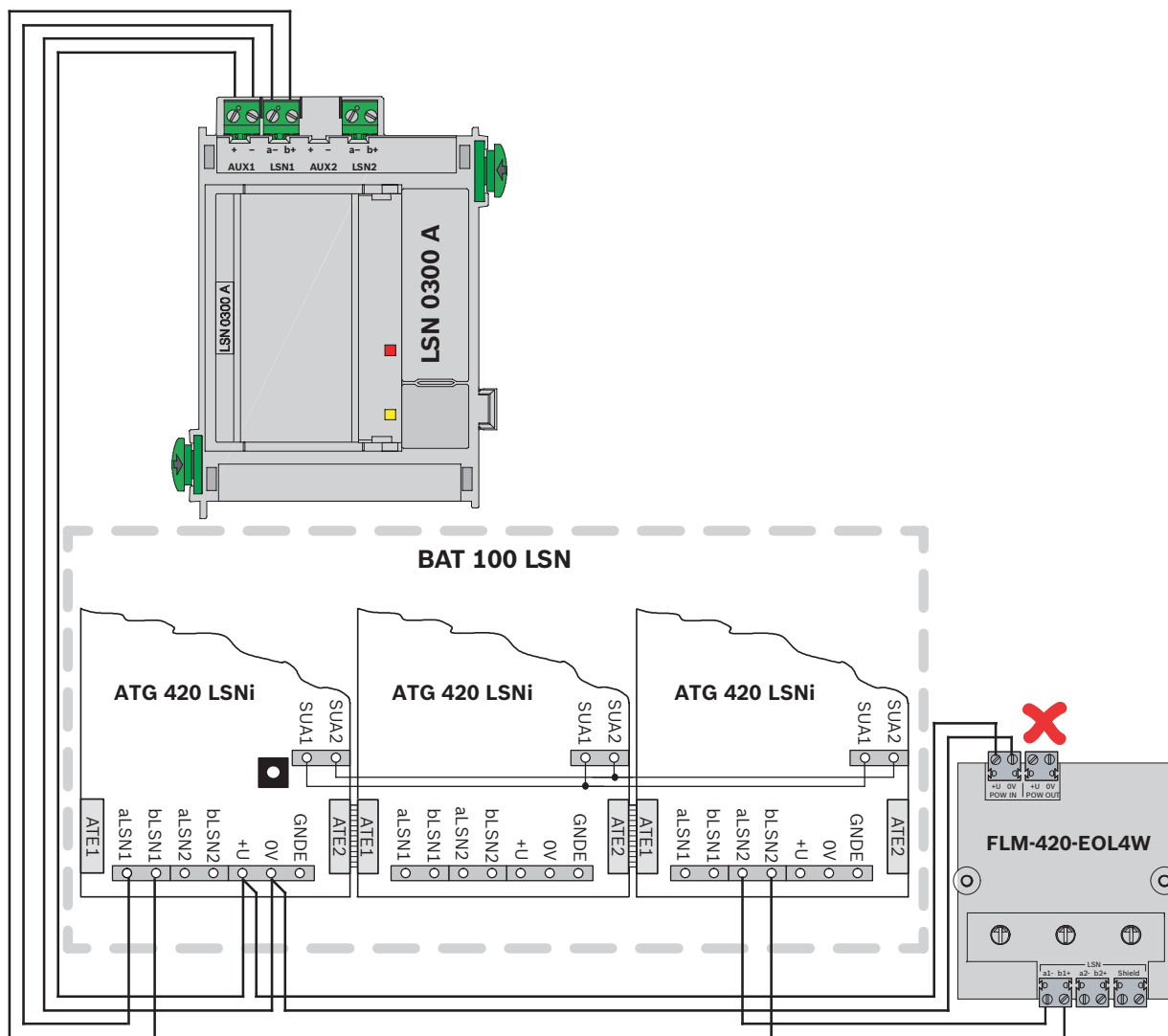
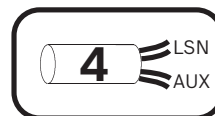




BAT 100 LSN
ATG 420 LSNi

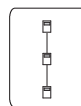


ELS VdS 2489

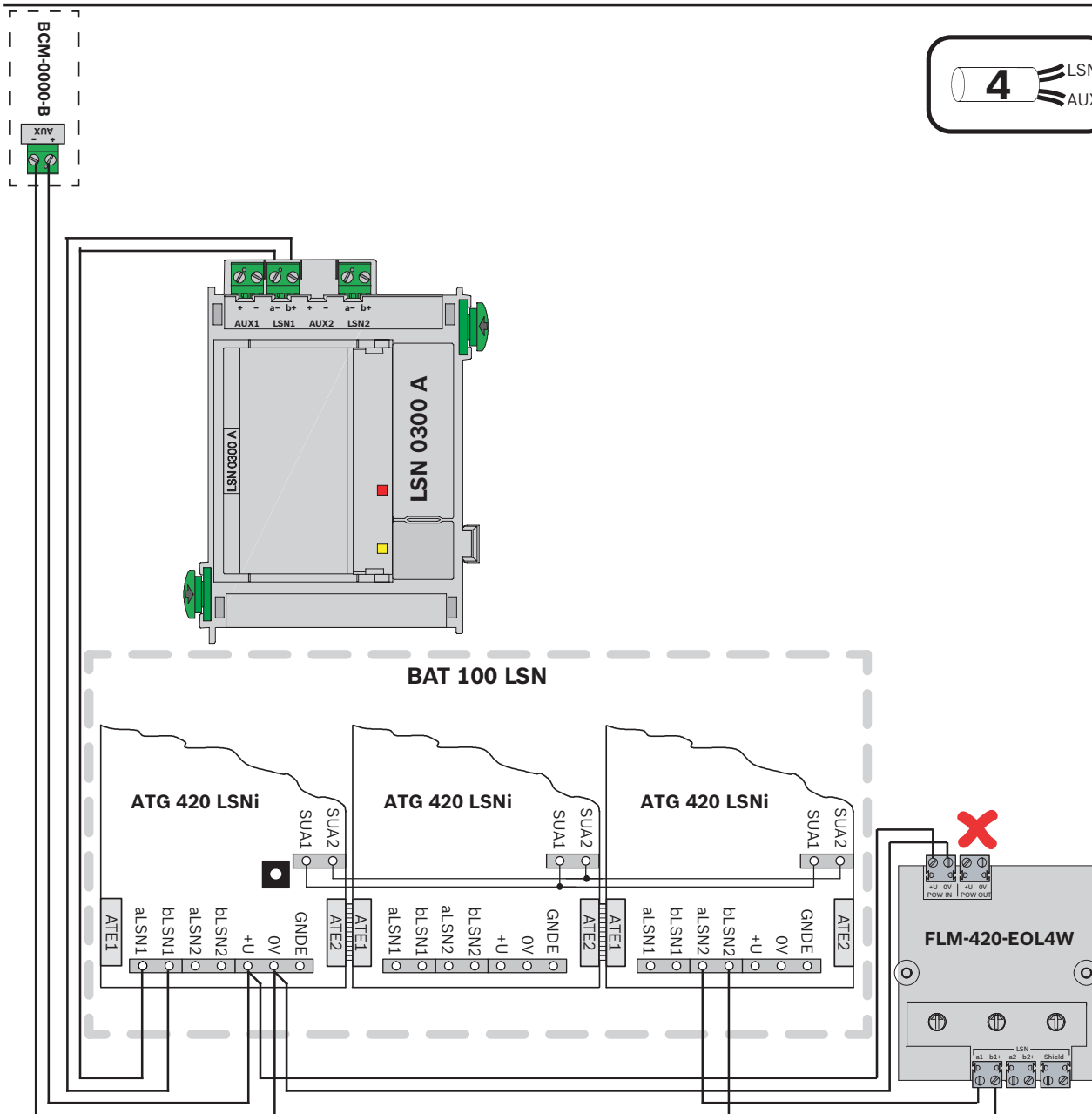




BAT 100 LSN
ATG 420 LSNi

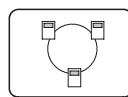


ELS VdS 2489

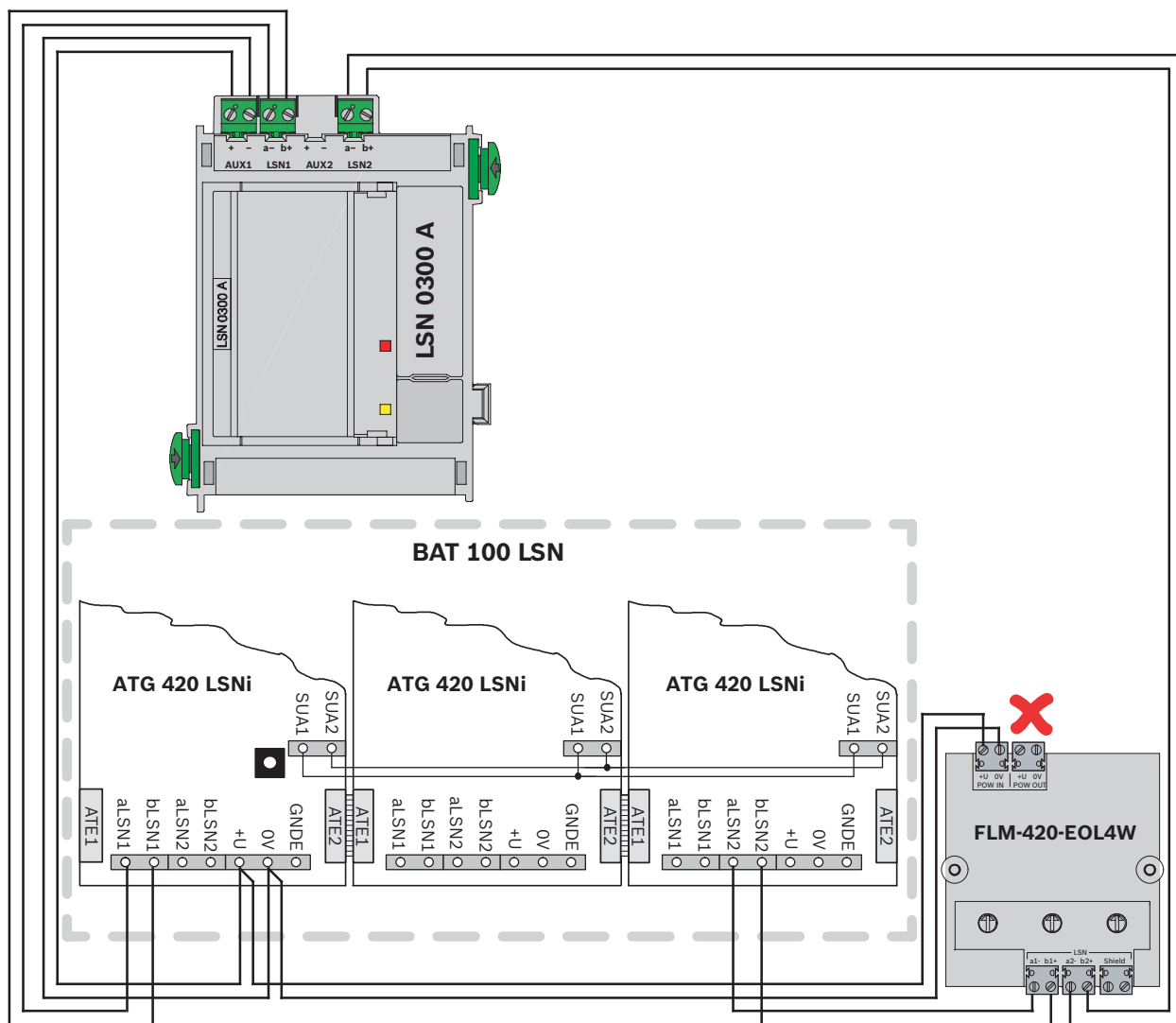
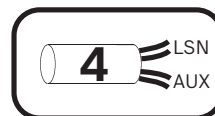




BAT 100 LSN
ATG 420 LSNi

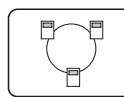


ELS VdS 2489

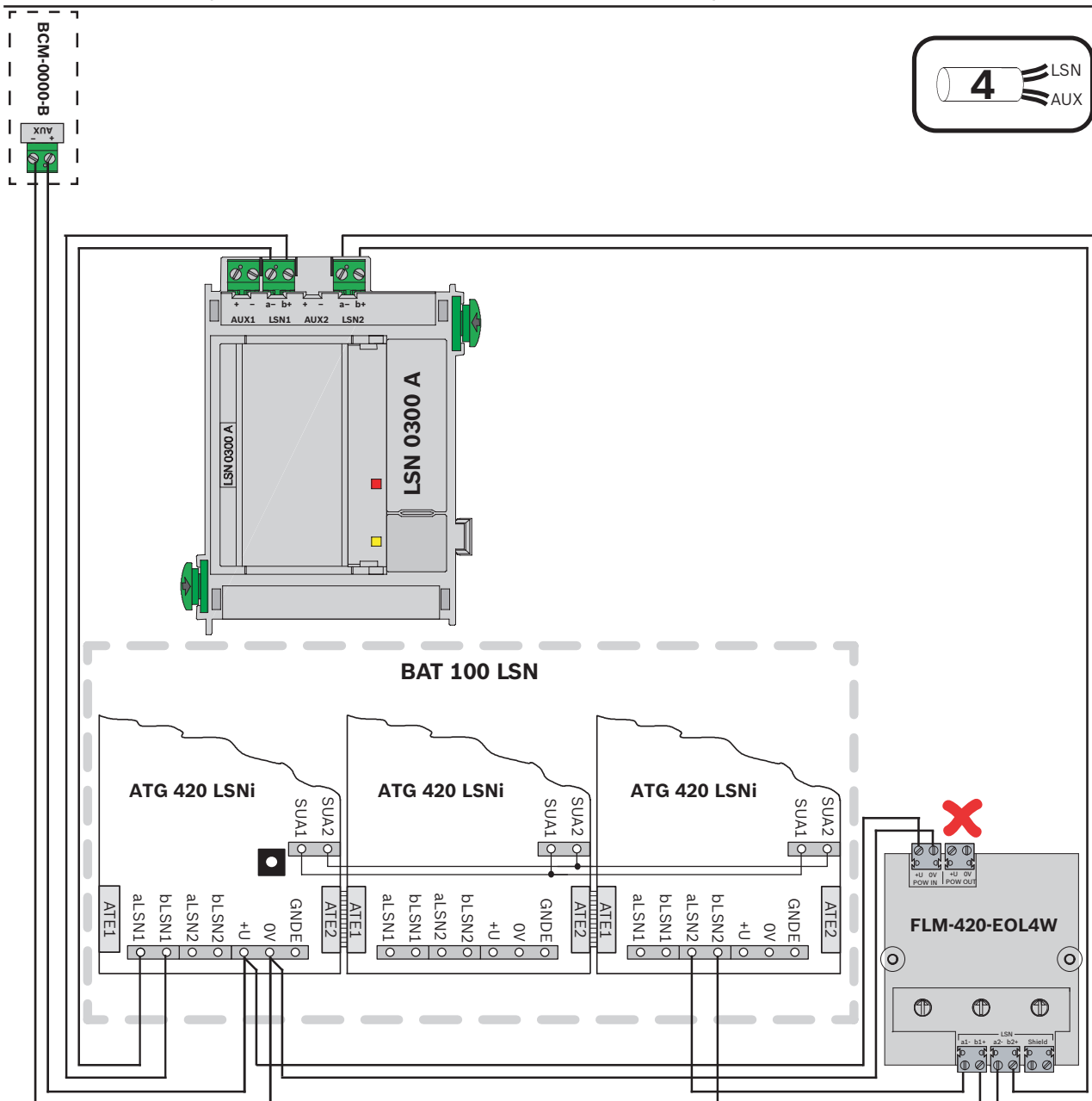
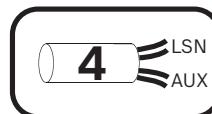


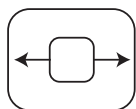


BAT 100 LSN
ATG 420 LSNi

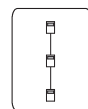


ELS VdS 2489

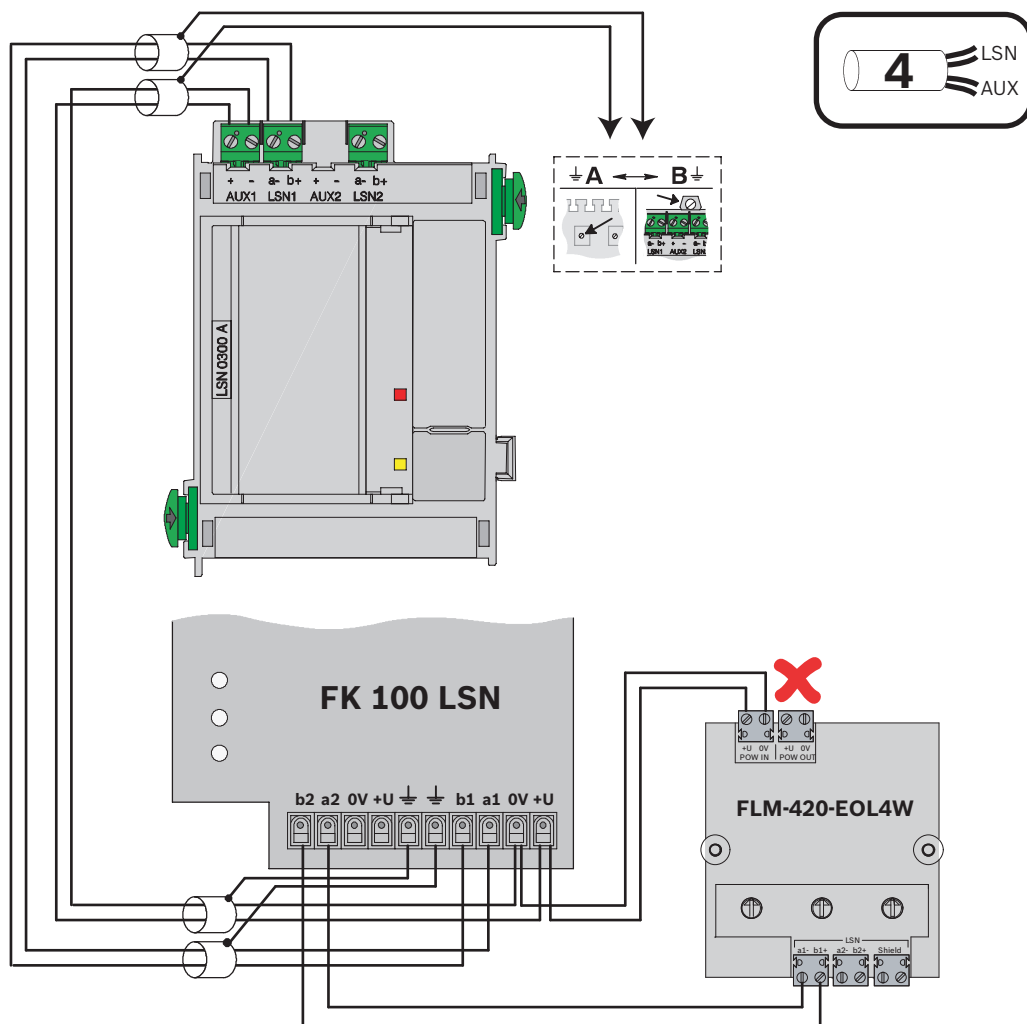
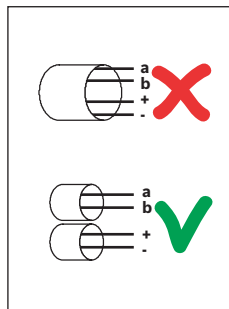


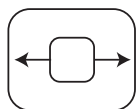


FK 100 LSN

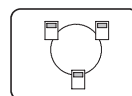


ELS VdS 2489

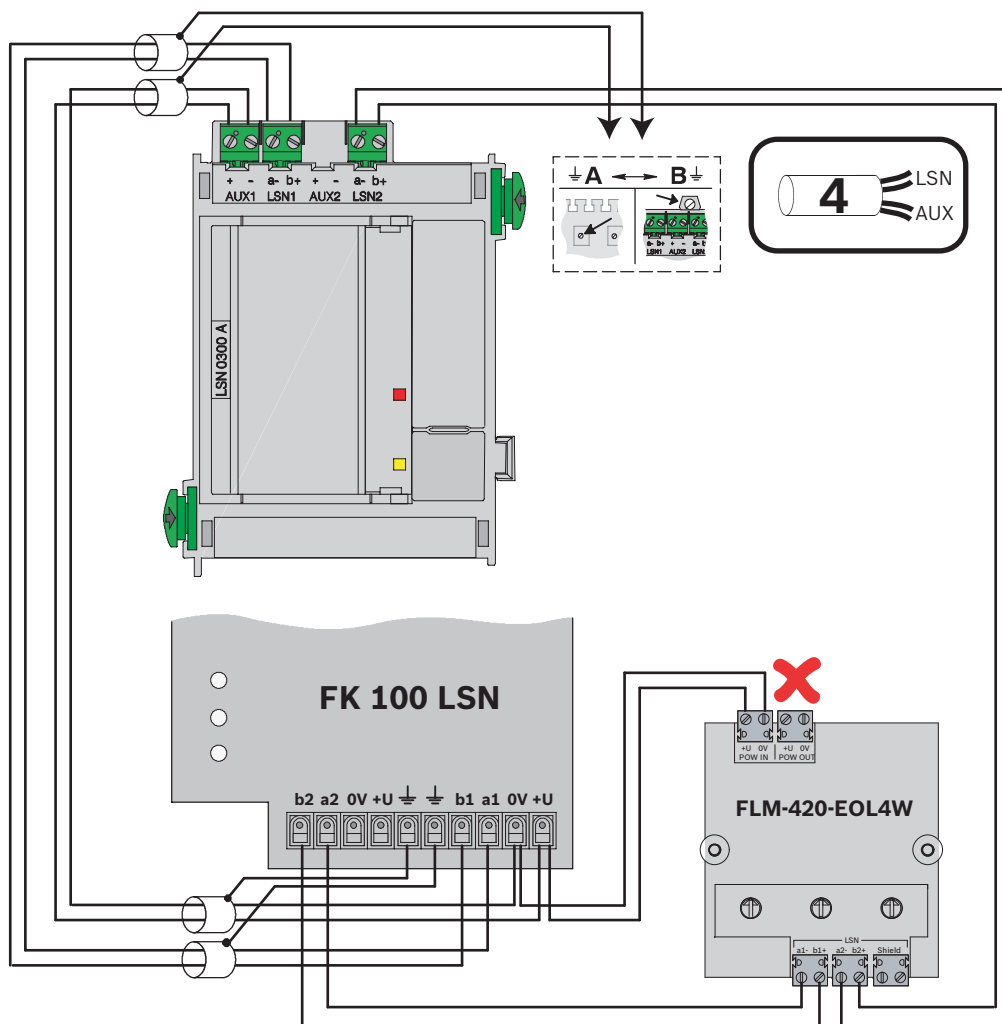
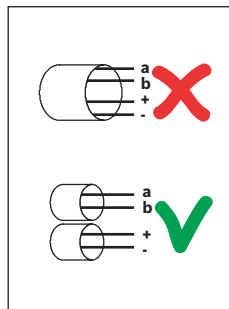




FK 100 LSN



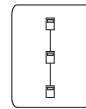
ELS VdS 2489



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

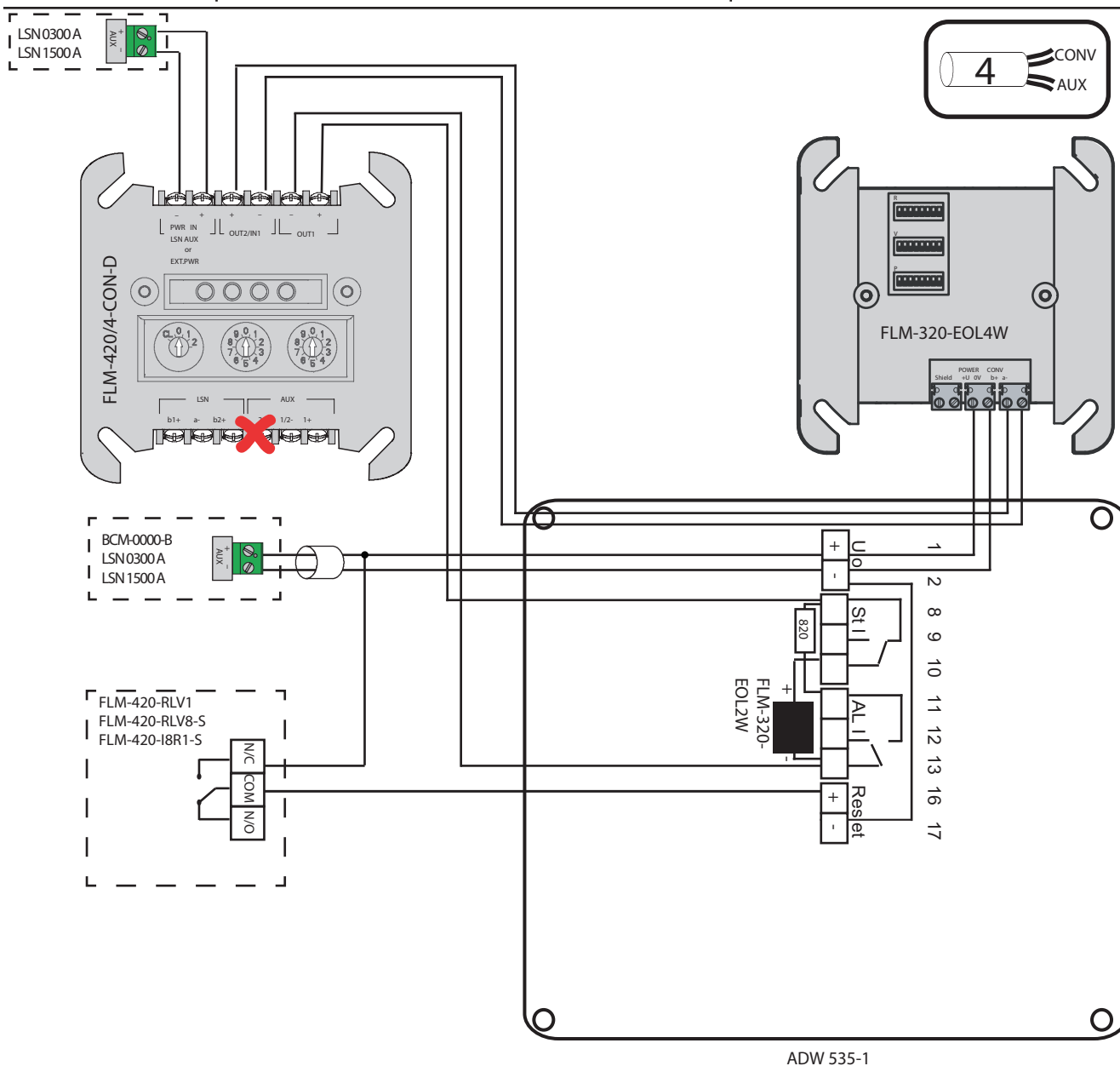


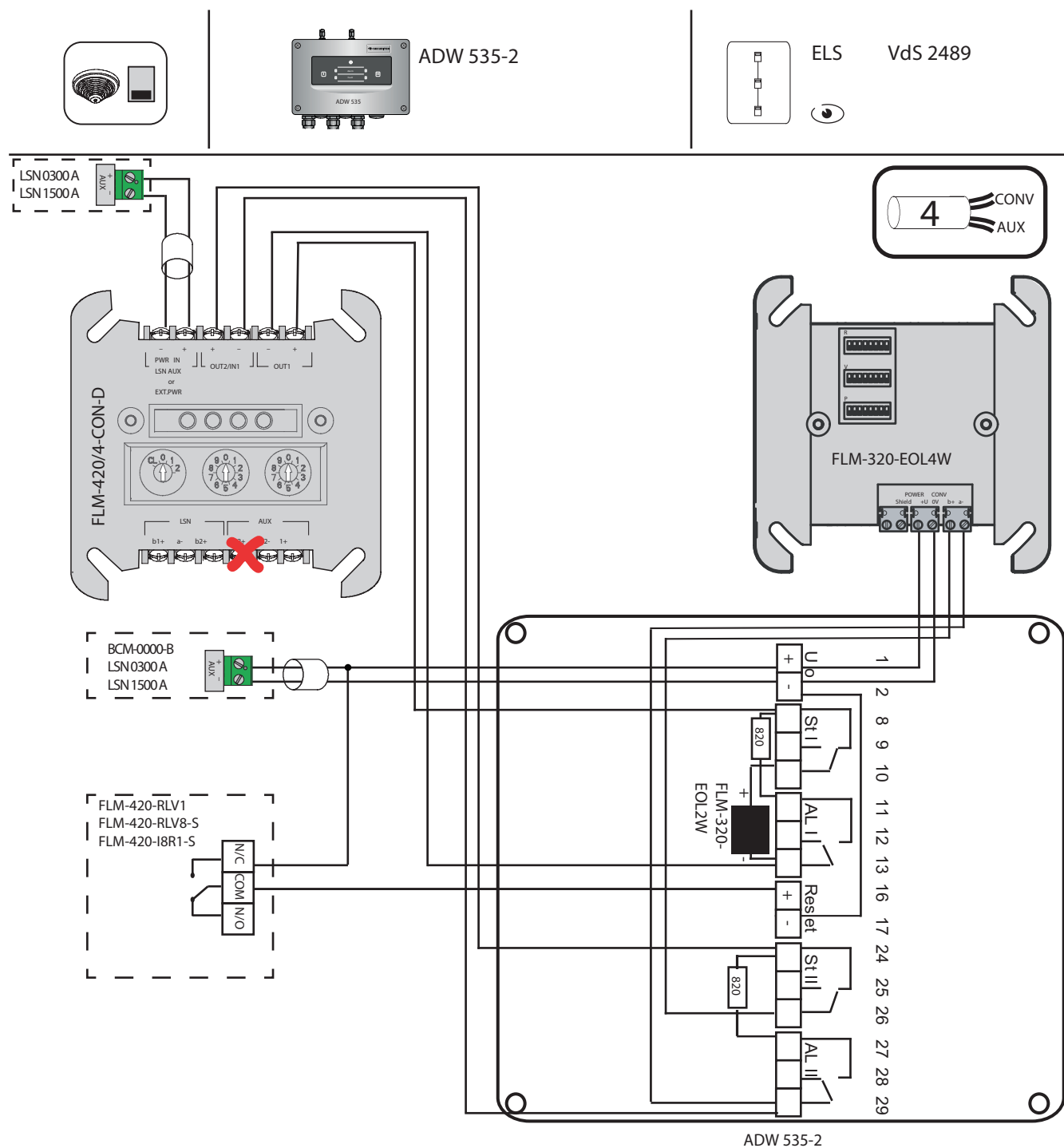
ADW 535-1

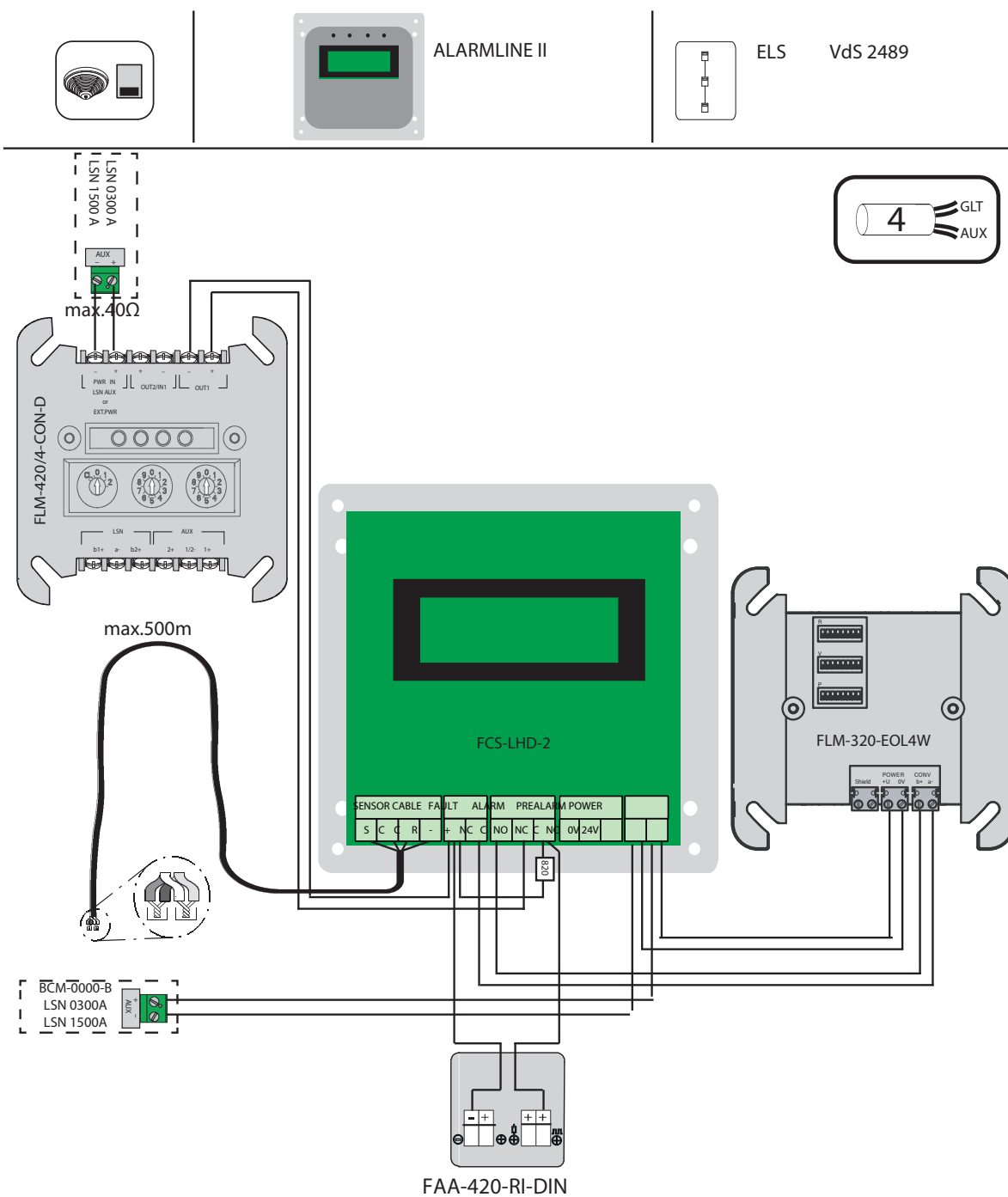


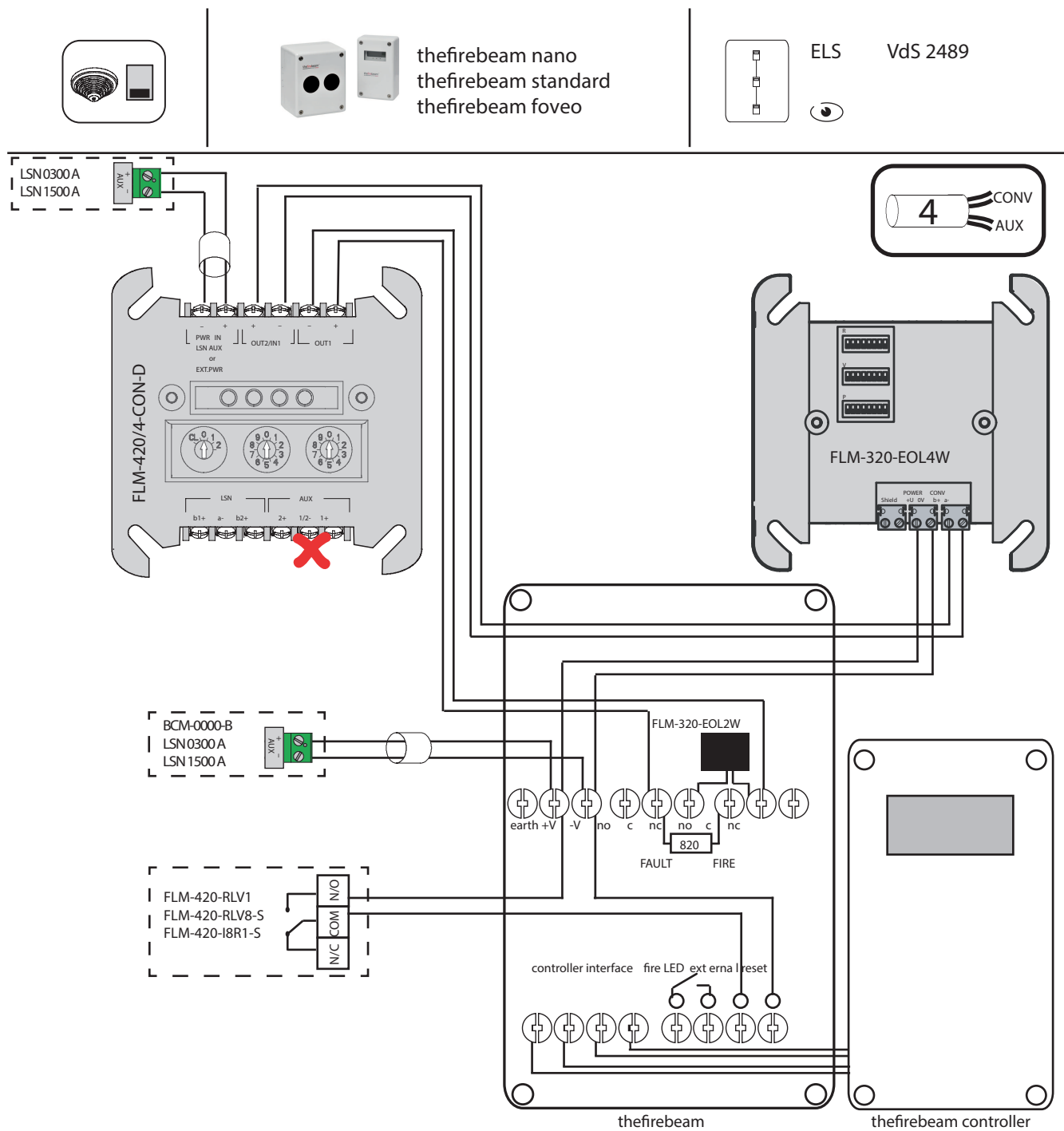
ELS

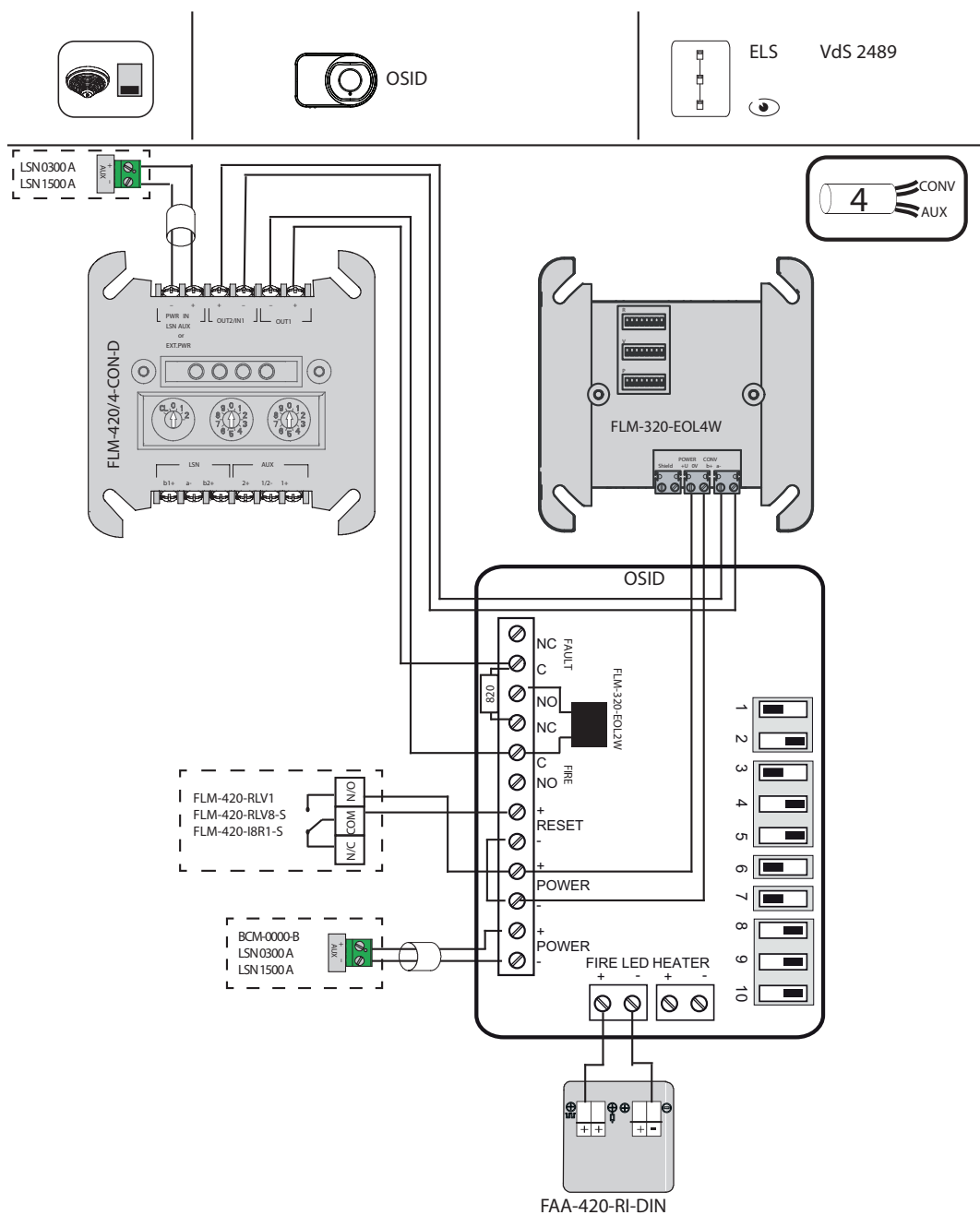
VdS 2489

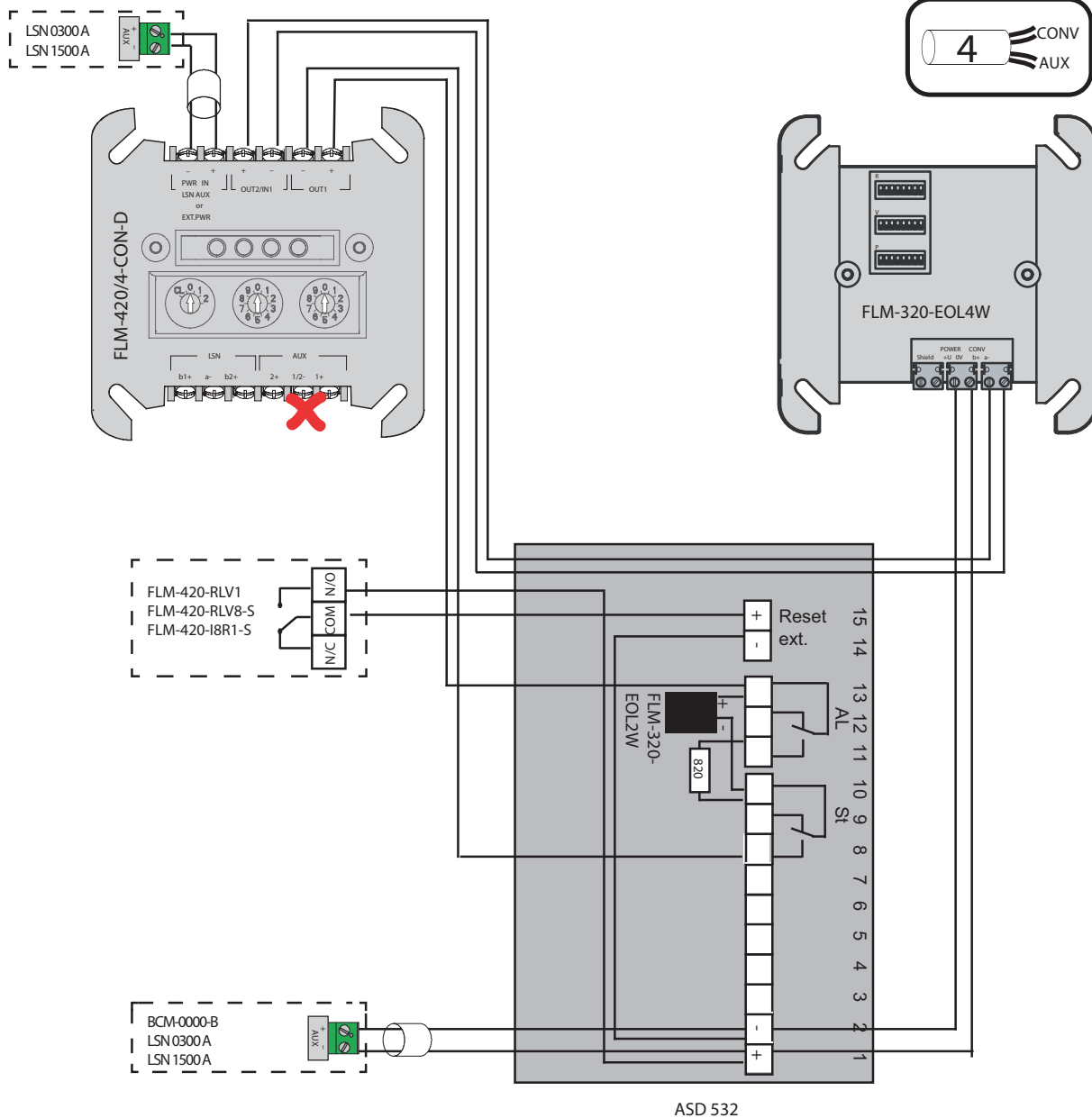
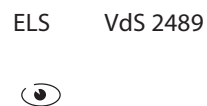
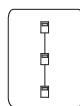






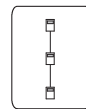








ASD 535-1

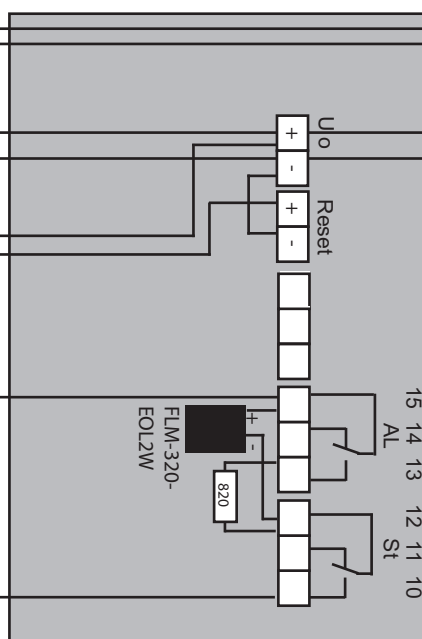
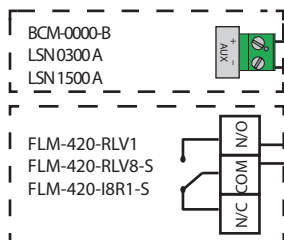
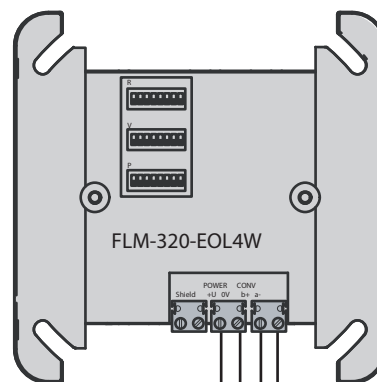
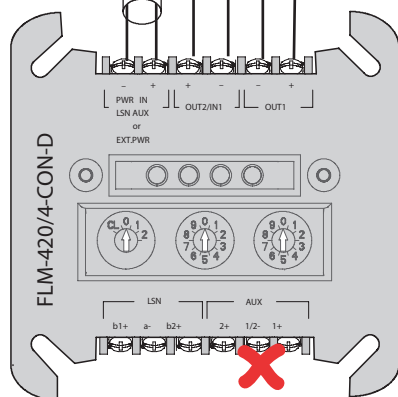


ELS

VdS 2489



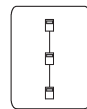
LSN 0300 A
LSN 1500 A



ASD 535-1

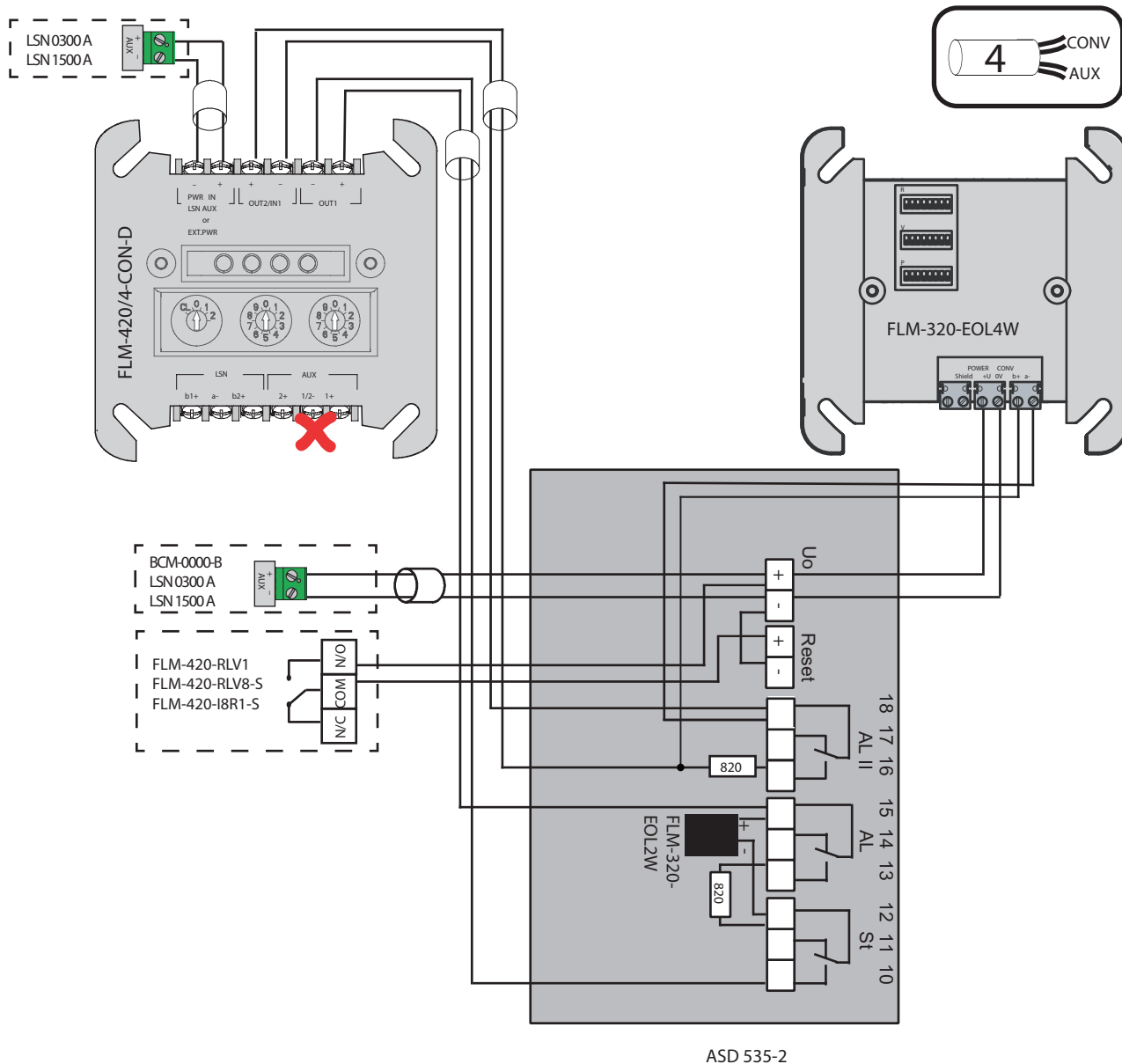


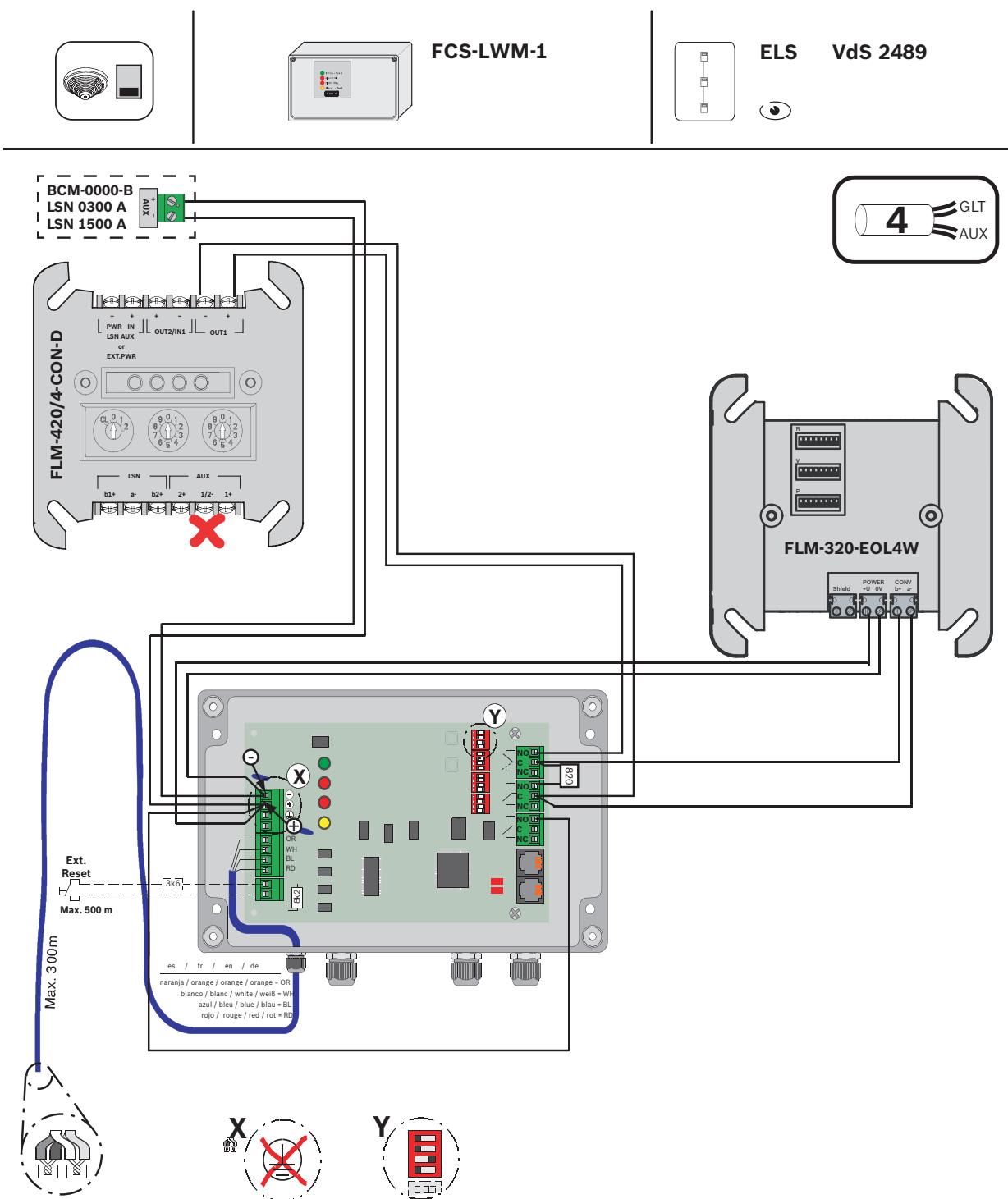
ASD 535-2

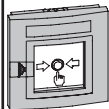
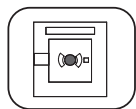


ELS

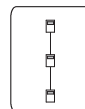
VdS 2489





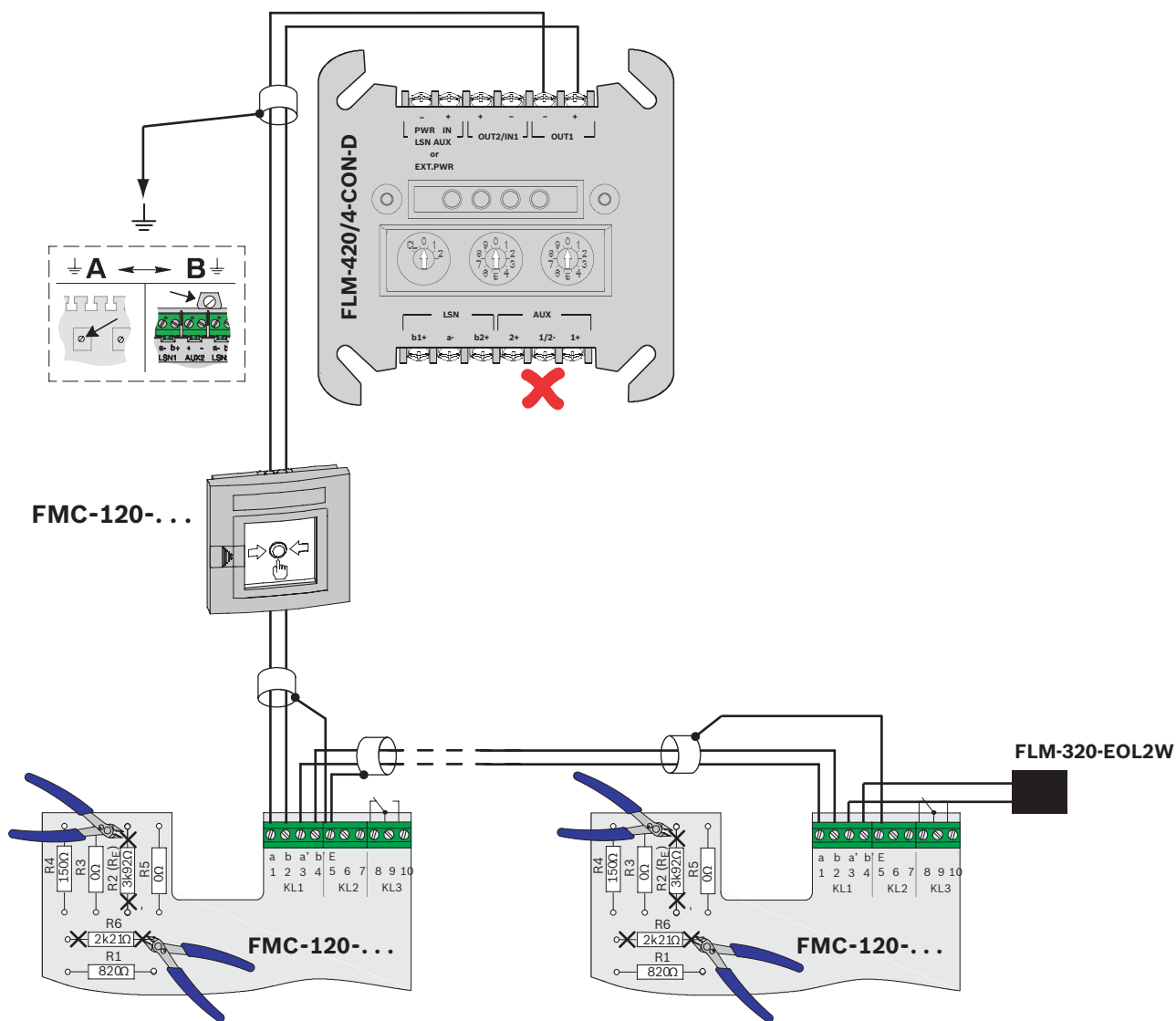


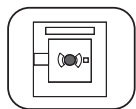
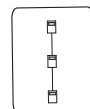
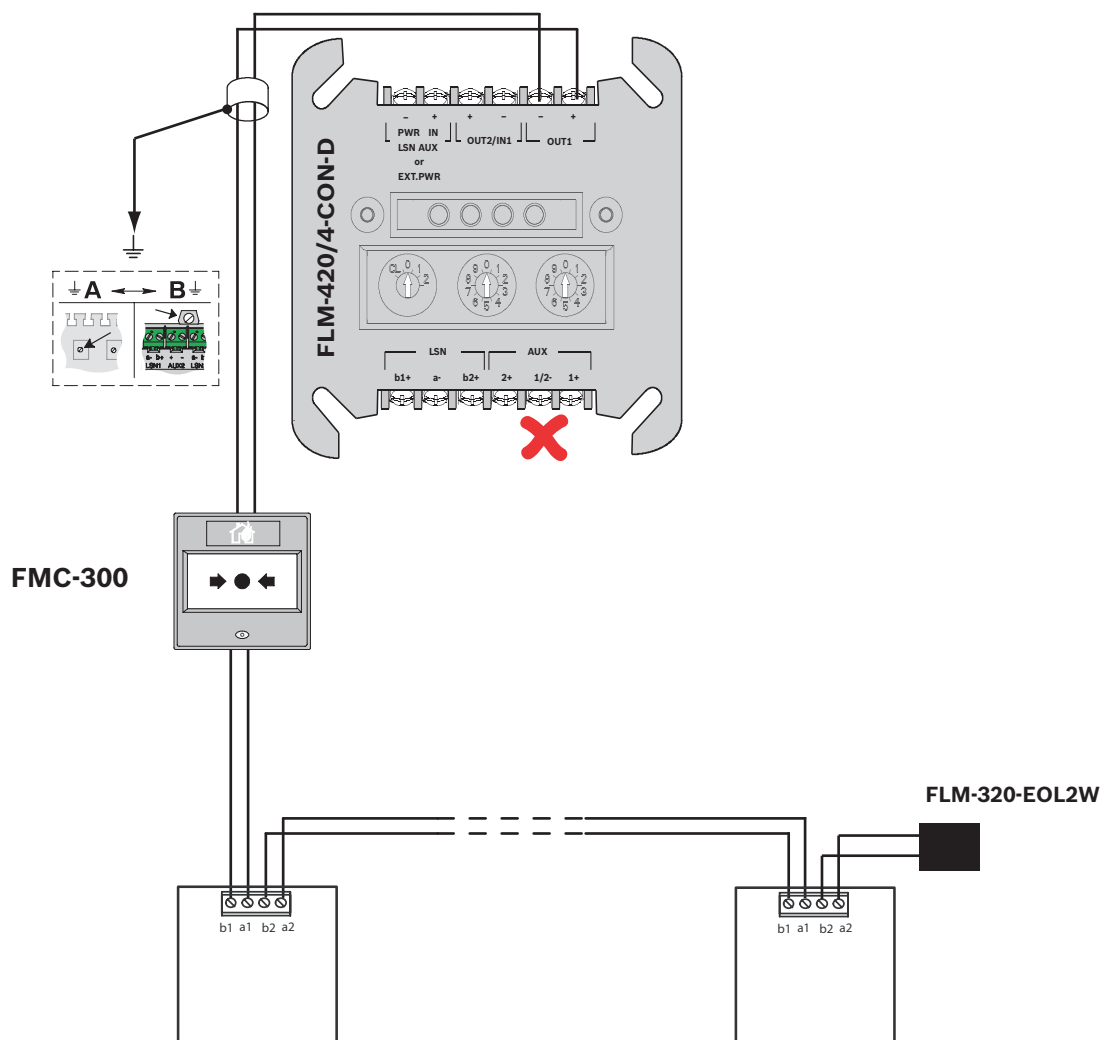
FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



ELS

VdS 2489



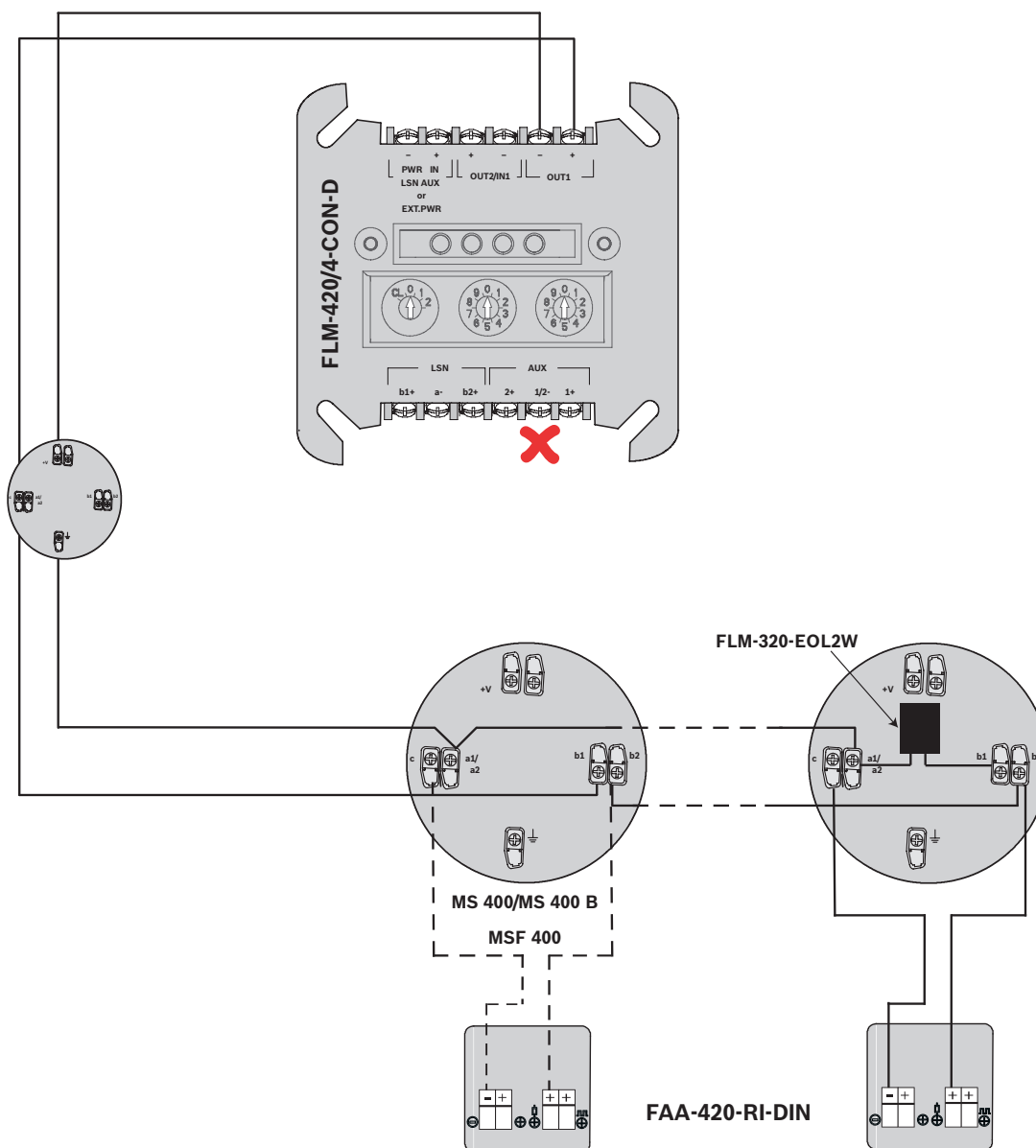
**FMC-300****ELS****VdS 2489**

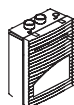


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



ELS VdS 2489





FCS-320-TM Series

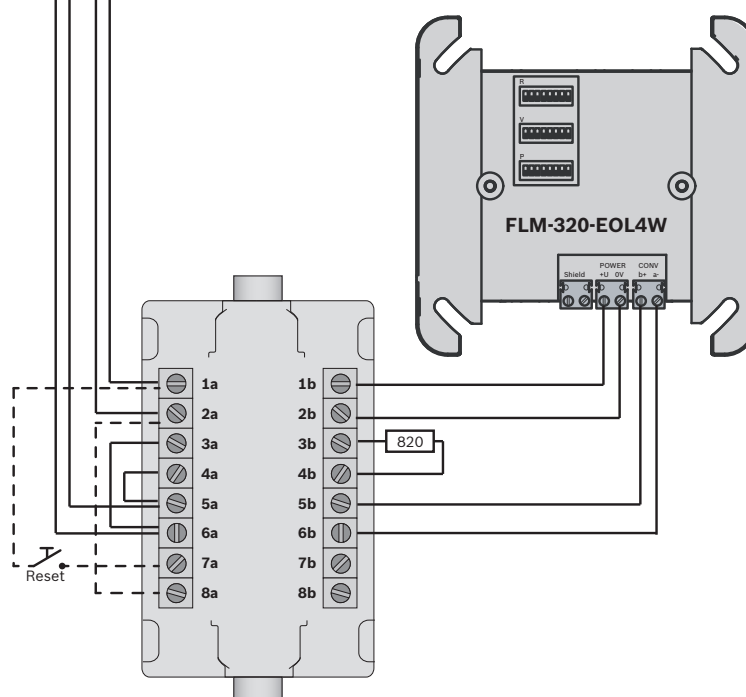
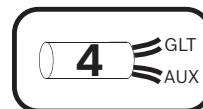
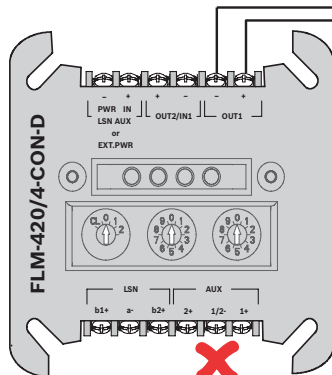


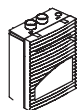
ELS VdS 2489



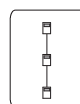
BCM-0000-B
LSN 0300 A
LSN 1500 A

AUX





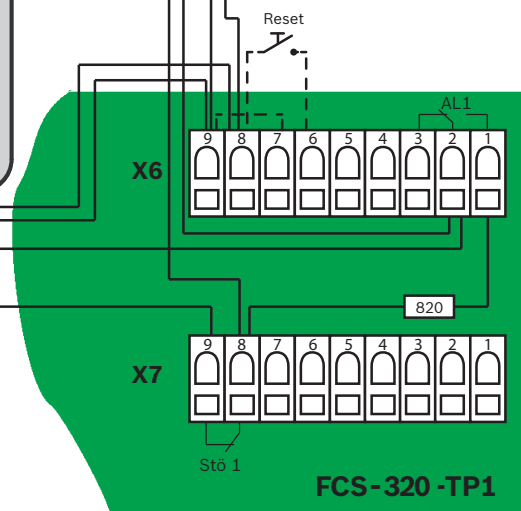
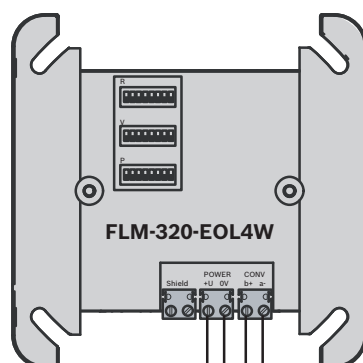
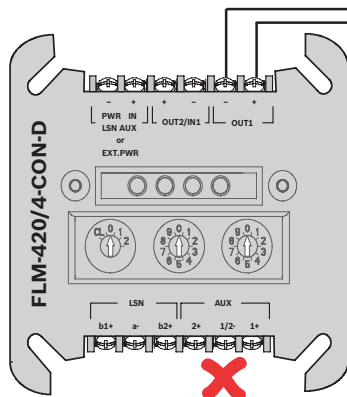
FCS-320-TP Series

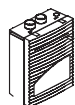


ELS VdS 2489



BCM-0000-B
LSN 0300 A
LSN 1500 A





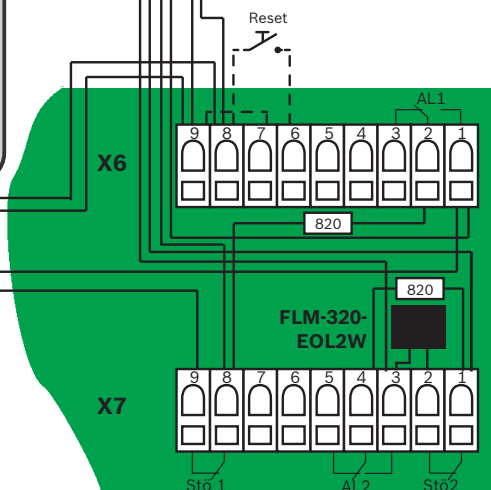
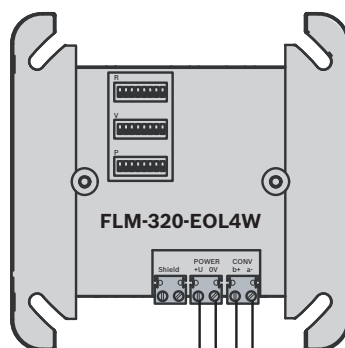
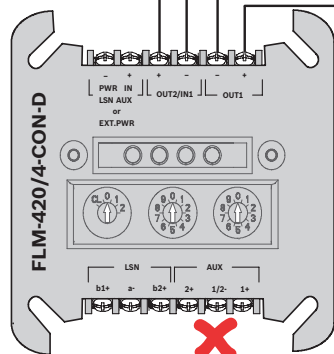
FCS-320-TP Series



ELS VdS 2489



BCM-0000-B
LSN 0300 A
LSN 1500 A



FCS-320-TP2

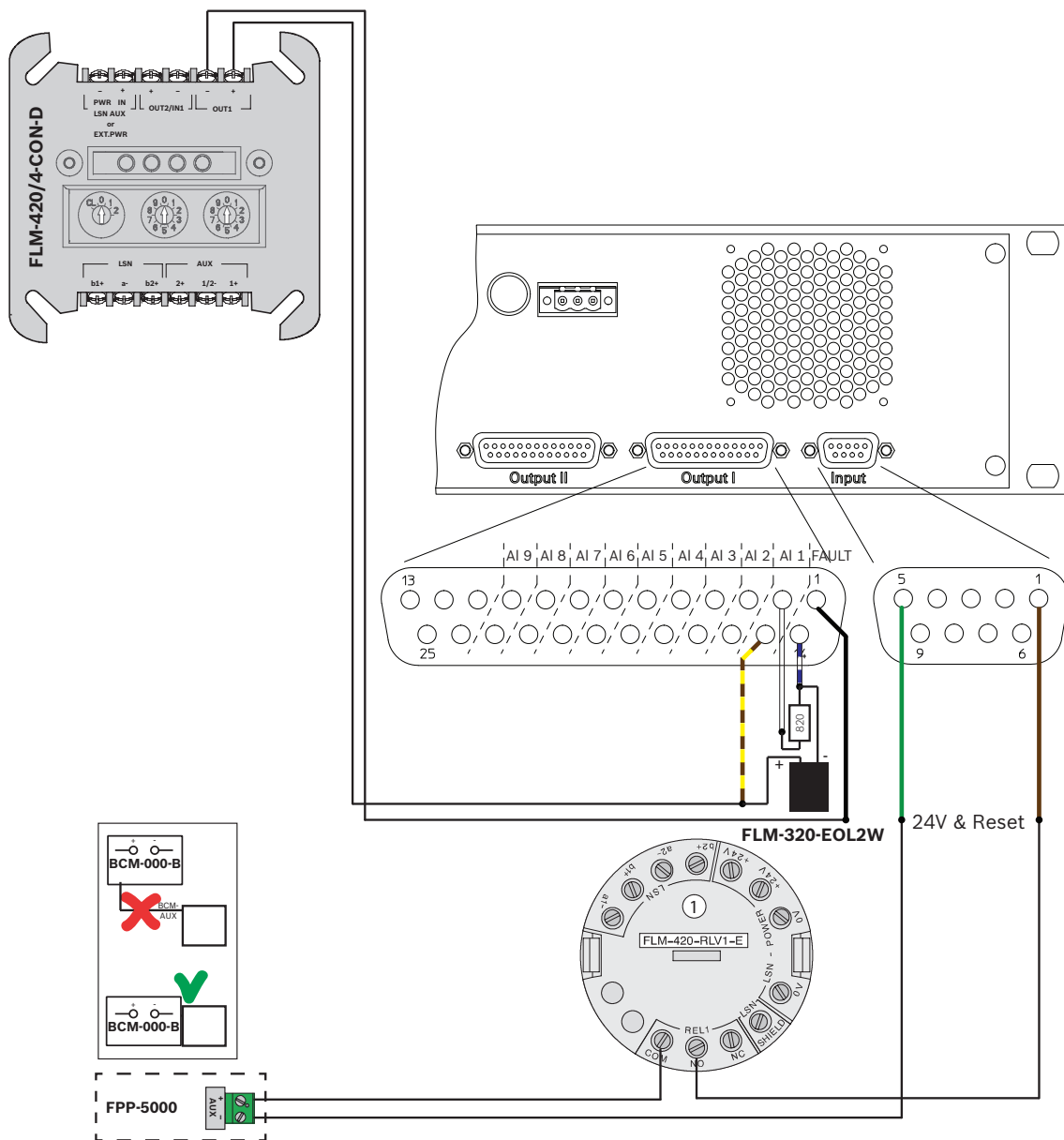


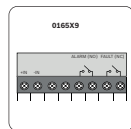
N4387A



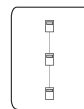
ELS

VdS 2489

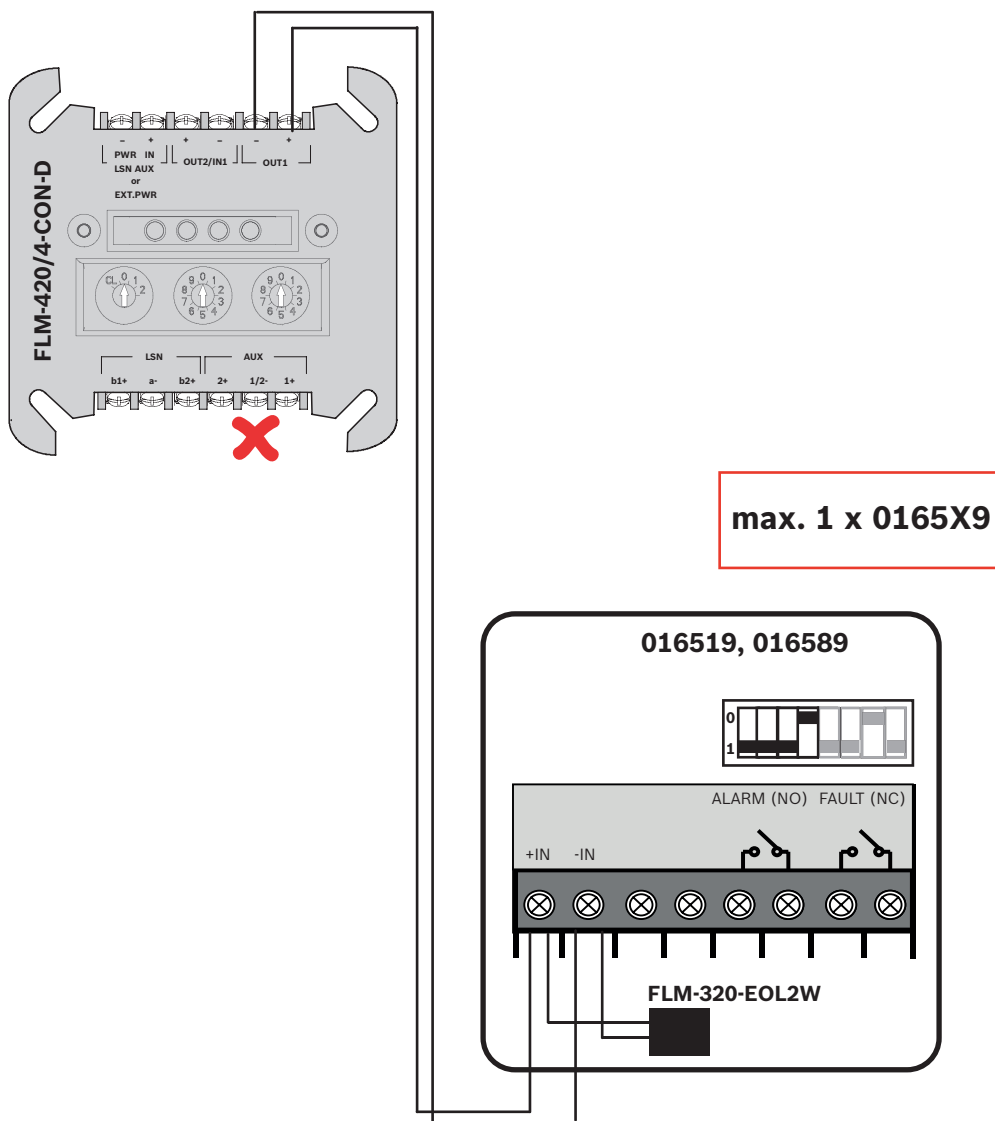


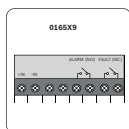
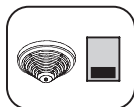


016519, 016589
IR3 Flame Detector

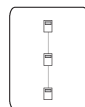


ELS VdS 2489





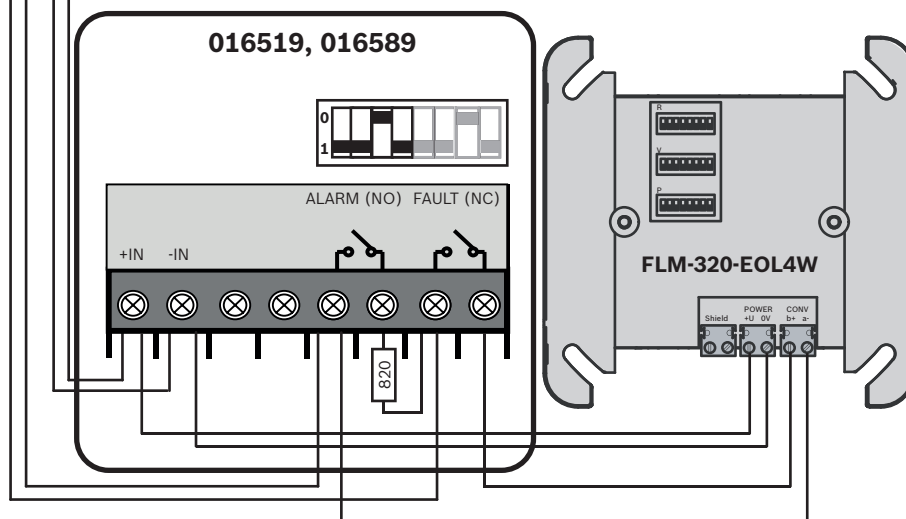
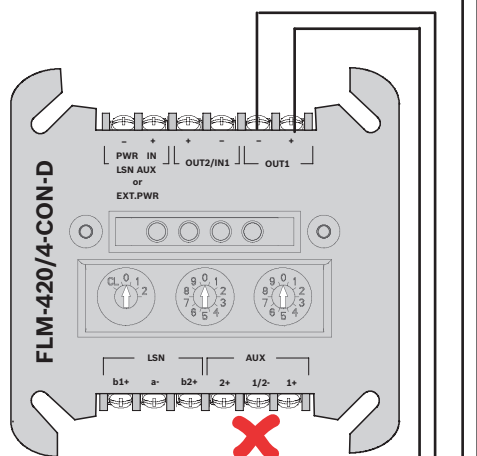
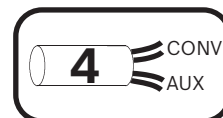
016519, 016589
IR3 Flame Detector

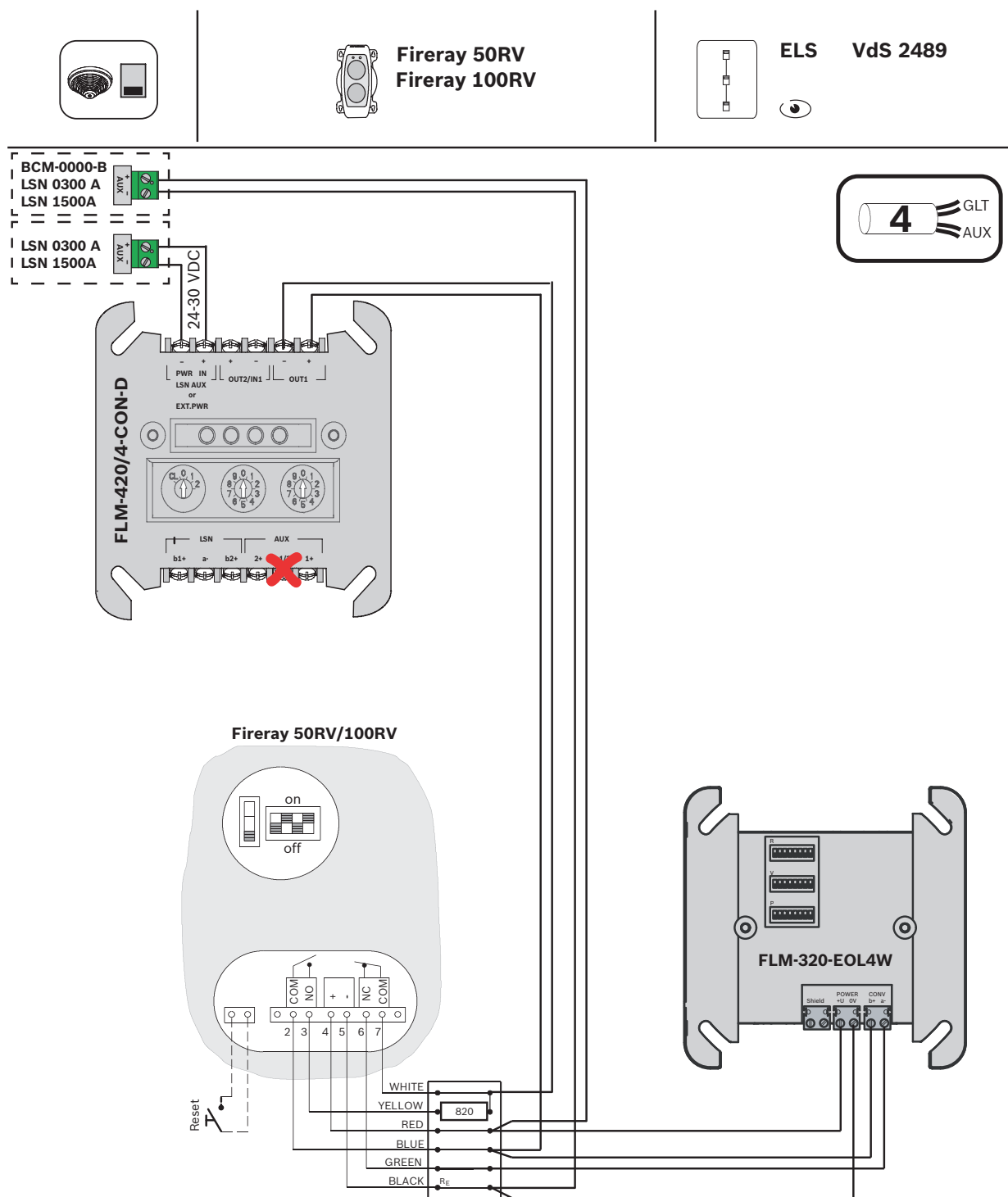


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BCM-0000-B
LSN 0300 A
LSN 1500 A







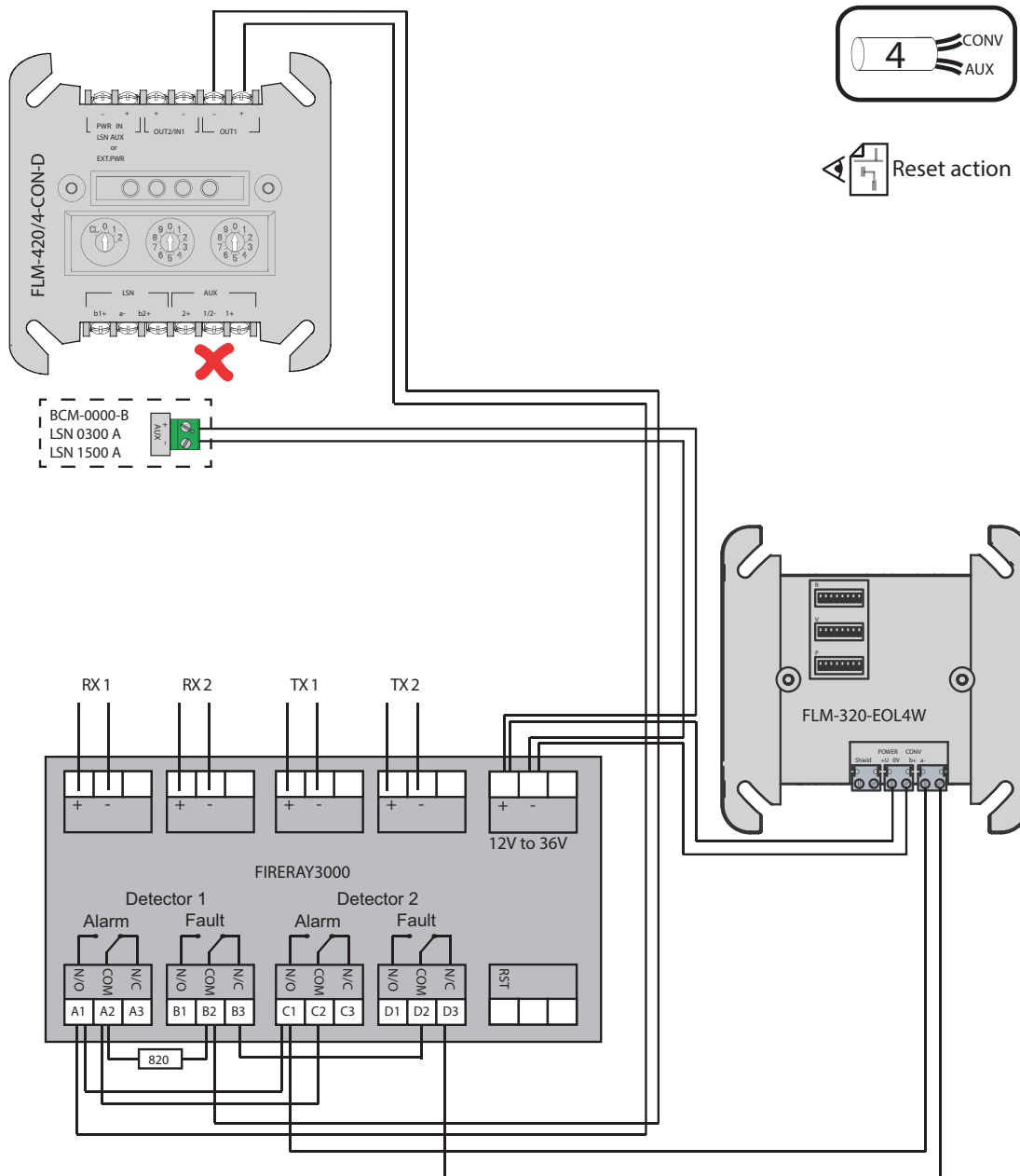
FIRERAY3000

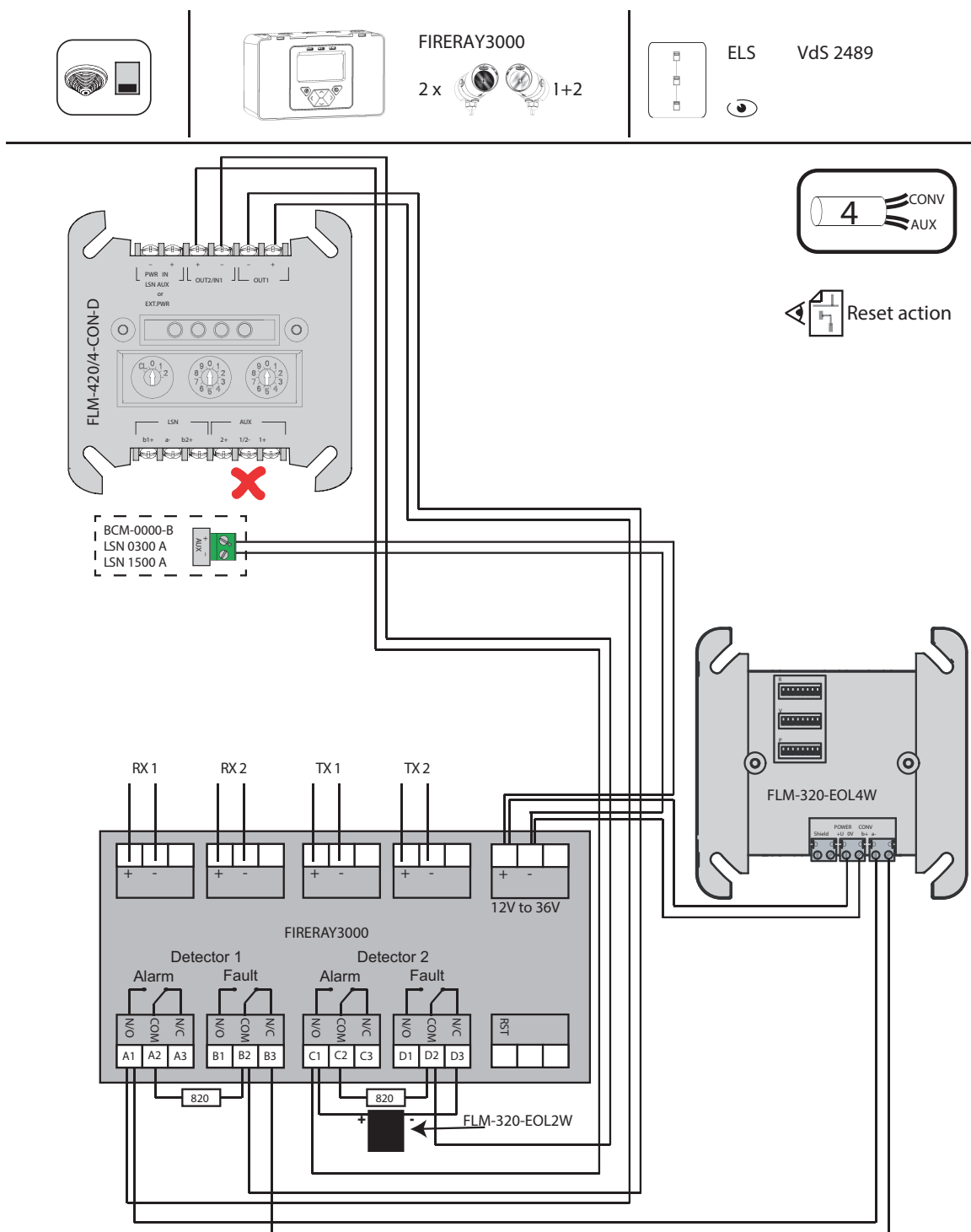
2x 1



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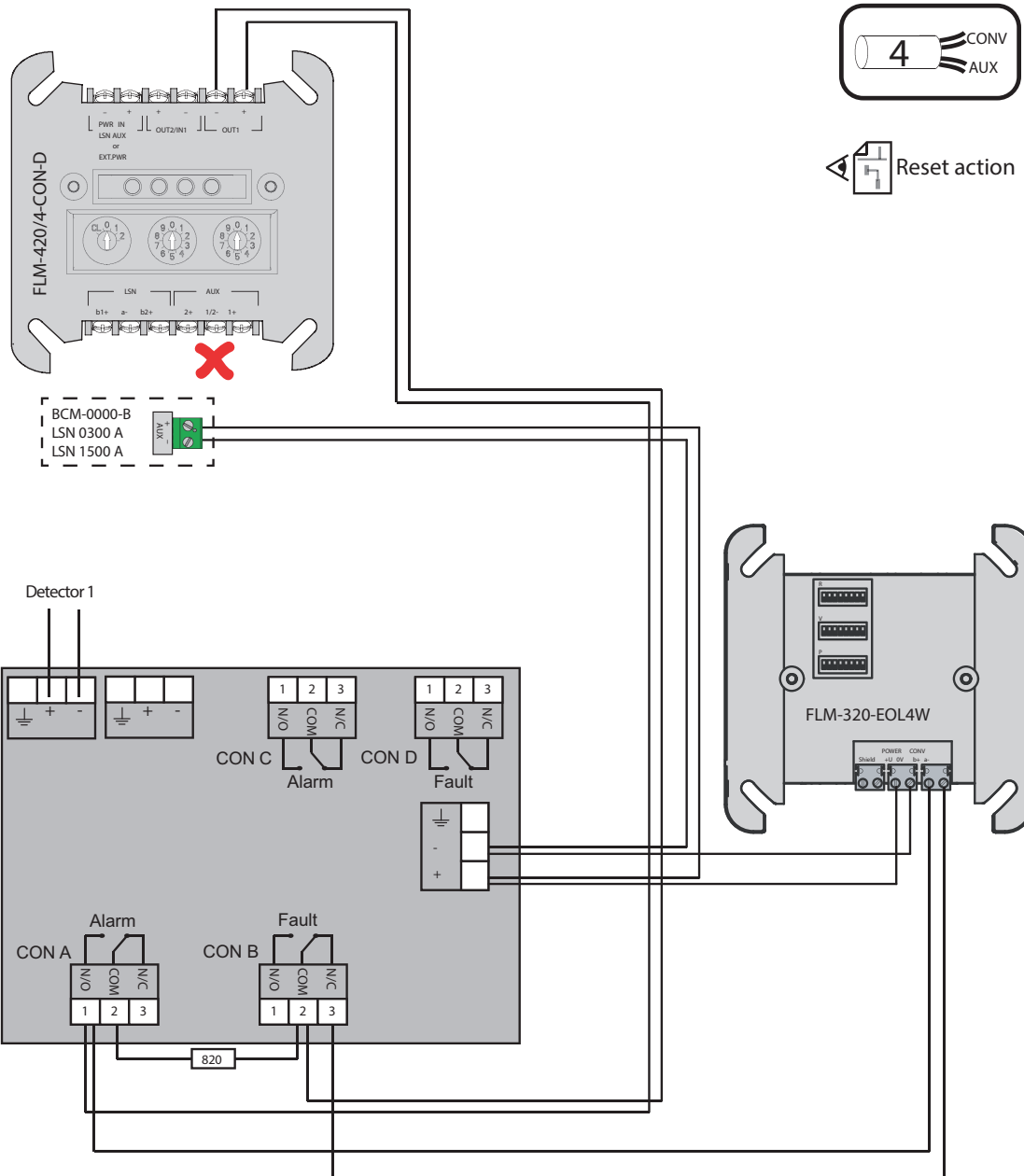
FIRERAY5000

1 x



ELS

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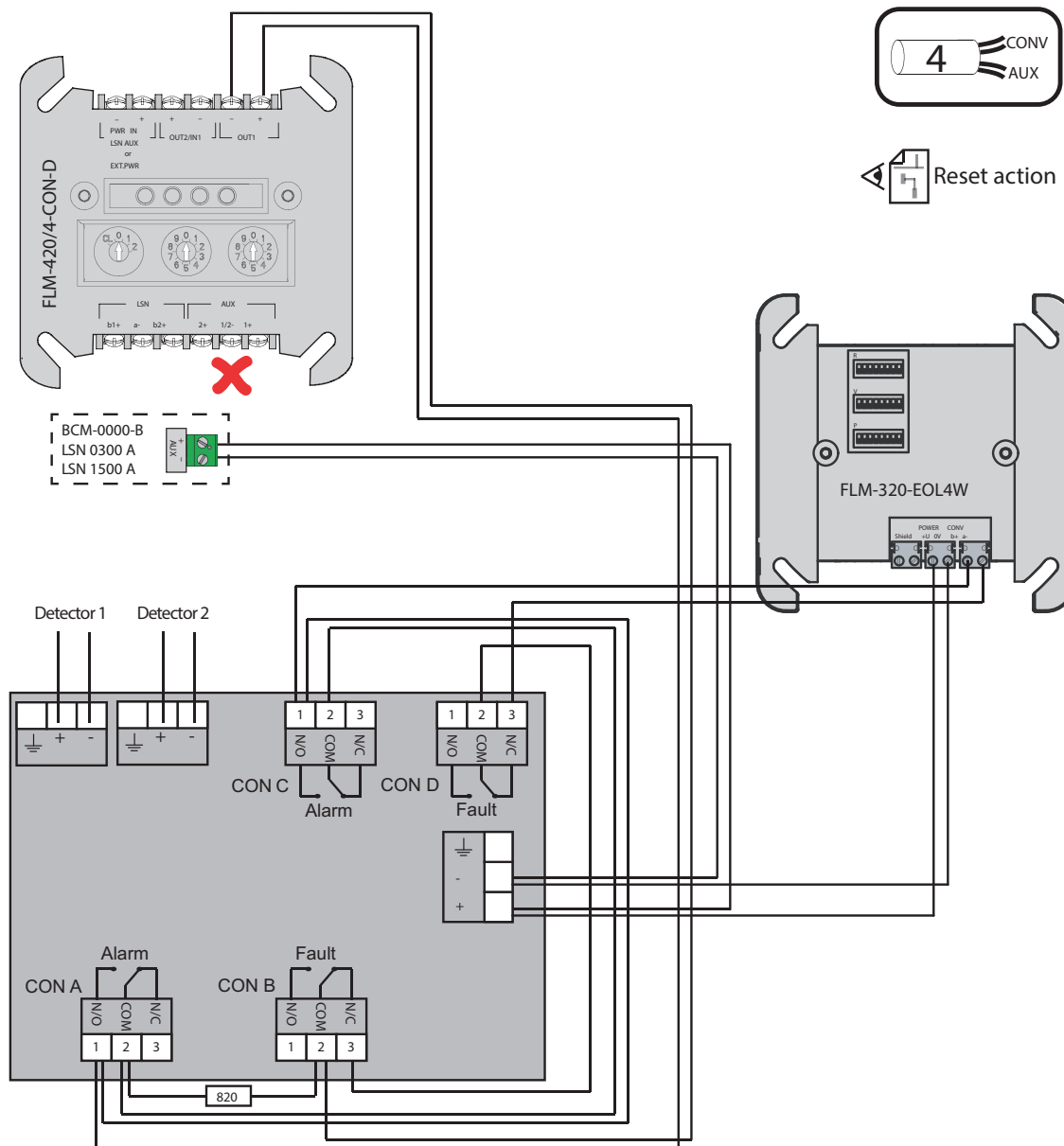
FIRERAY5000

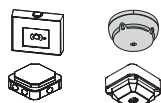
2 x OUT1



ELS

VdS 2489

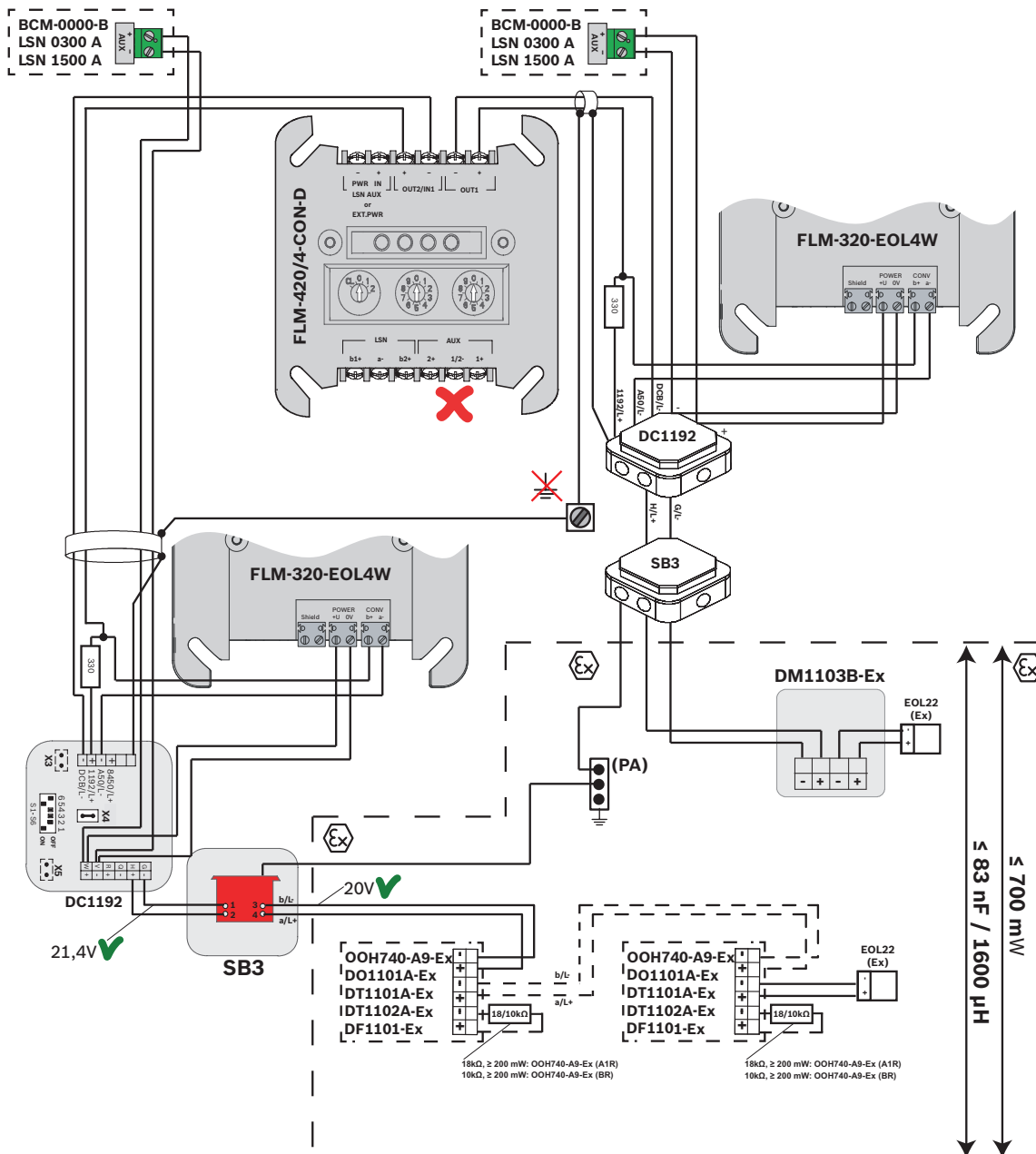


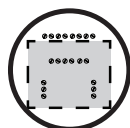


DC1192, SB3
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DO1101A-Ex
DT1101A-Ex/DT1102A-Ex
DF1101-Ex
DM1103B-Ex

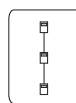


ELS VdS 2489

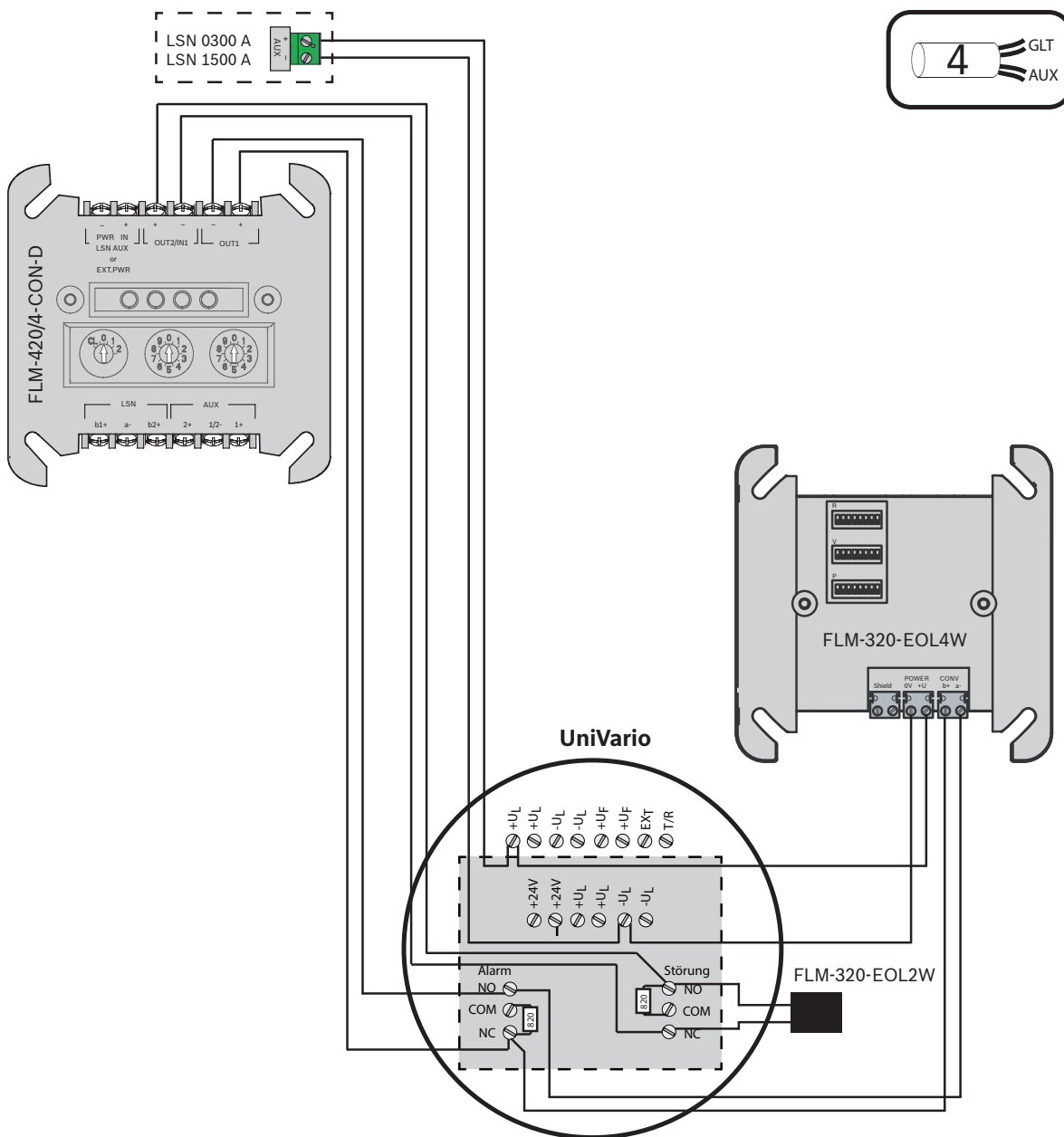




UniVario WMX5000
UniVario FMX5000
UniVario KMX5000



ELS VdS 2489



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numeryczne

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FLM-420/4-CON-D (EOL) 250

X

X9800 ->

FLM-420/4-CON-D 147

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