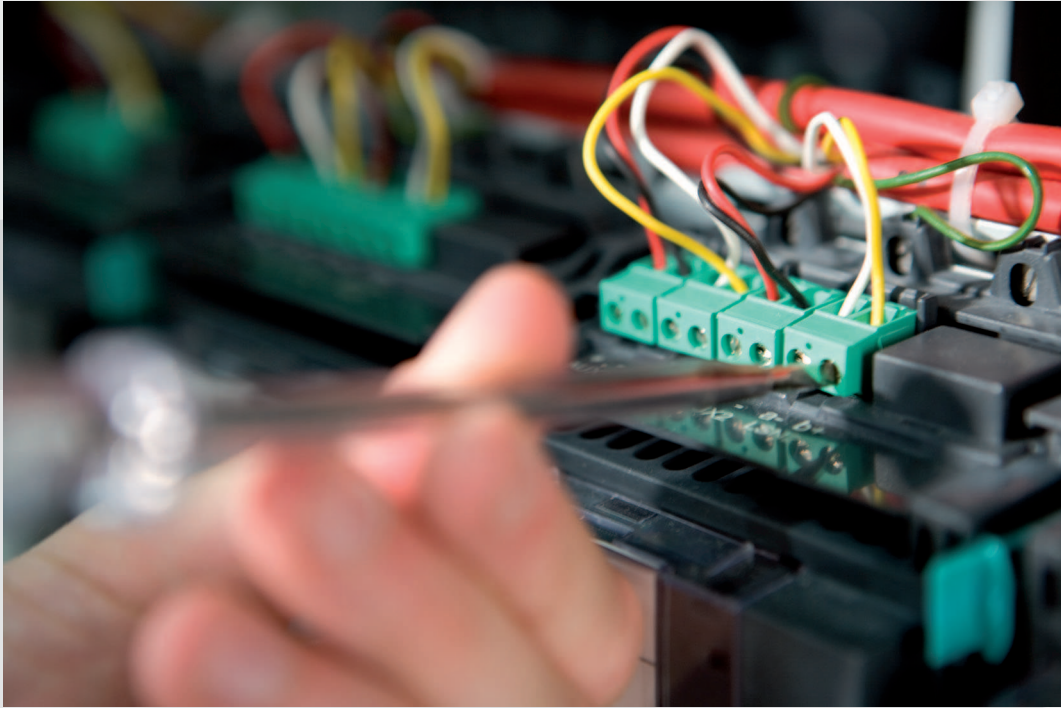




BOSCH

Modüler Yangın Paneli

FPA-5000



tr

Bağlantı Şeması

İçindekiler

1	History	4
1.1	12.0 -> 12.1	4
1.2	12.1 -> 12.2	5
1.3	12.2 -> 12.3	7
1.4	12.3 -> 12.4	8
1.5	12.4 -> 12.5	9
1.6	12.5 -> 12.6	10
1.7	12.6 -> 12.7	10
1.8	12.7 -> 12.8	11
2	Notlar	12
2.1	İçindekiler	12
2.2	Ürün Bilgileri	12
2.3	Önemli Açıklamalar	12
2.4	Kullanıcı Notları	12
2.4.1	Bölüm Sembolleri	14
2.4.2	Bağlantı Sembolleri	14
2.4.3	Güç Kaynağı ve Kablo Bağlantısı	15
2.5	Direnç Değerleri	16
3	Kablo bağlantısı	18
3.1	FPP-5000 Power supply	19
3.2	DIBT	21
3.3	Fonksiyonel modüller	48
3.3.1	BCM-0000-B	49
3.3.2	CZM 0004 A	51
3.3.3	ENO 0000 A/B	55
3.3.4	LSN 0300 A	62
3.3.5	NZM 0002 A	97
3.3.6	RMH 0002 A	113
3.3.7	IOS 0020 A	116
3.3.8	FPE-5000-UGM	131
3.4	Arayüz modülleri	136
3.4.1	FLM-420/4-CON-D/S	137
3.4.2	FLM-420-NAC-D/S	162
3.4.3	FLM-420-RLE-S	175
3.4.4	FLM-420-RLV1-E	176
3.4.5	FLM-420-RLV8-S	177
3.4.6	FMF-ADP-FBF/FMF-ADP-TTY	178
3.5	EOL	180
3.5.1	LSN 0300 A	181
3.5.2	FLM-420/4-CON-S/D	223
	Index	250

1 History

1.1 12.0 -> 12.1

Changes

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

Deleted

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

Outphased

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

New

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

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

1.2

12.1 -> 12.2

Changes

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

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

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

Deleted

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

Outphased

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

New

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

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

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

Changed

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

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

Outphased

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

1.4

12.3 -> 12.4

New

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

Changed

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

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

Outphased

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

1.5

12.4 -> 12.5

New

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

Changed

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

User Notes updated, order of chapters

Deleted

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

Outphased

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

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

1.6

12.5 -> 12.6

Changed

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

Outphased

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

1.7

12.6 -> 12.7

Changed

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

Deleted

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

New

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

1.8

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

12.7 -> 12.8**New**

AT5000 -> ENO 0000 B

Changed

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

Naming:

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

ELS descriptions in 2.4.2 (DE, EN)

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

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

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

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

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

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

FLM-420-O1I1 -> LSN 0300

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

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

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

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

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

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

Reset action

5 x FAT4000 (shield)

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

Deleted

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

Section Networking (see Networking guide)

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

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

37 x 2-wire cabling -> CZM 0004 A

2

Notlar

2.1

İçindekiler

Bu Bağlantı Şeması, saha elemanlarının FACP'ye nasıl bağlanacağını gösterir.

Ürün serisine artık dahil olmayan saha elemanları, Bağlantı Şemasında "Part 2 - Discontinued Products" bölümünde verilmiştir.



Uyarı!

Bu belgede gösterilen bağlantılar, diğer parçaların Bosch Sicherheitssysteme GmbH onaylı FPA-1200 Yangın Paneli ekleri olması kaydıyla FPA-1200 Yangın Paneli için de geçerlidir.



Uyarı!

Bu belgede açıklanan LSN 0300 A bağlantıları LSN 1500 A modülü için de geçerlidir.

2.2

Ürün Bilgileri

- FACP'nin diğer parçalarına ait montaj talimatlarını ekteki Montaj Kılavuzunda bulabilirsiniz.

2.3

Önemli Açıklamalar

- Kurulum malzemelerini sadece Bosch Güvenlik Sistemleri tarafından önerilen şekilde kullanın.
- Dönüştürme ve lehim çalışmaları yaparken mutlaka topraklama bilekliği kullanın.
- Montaj ve kurulum yalnızca yetkili personel tarafından gerçekleştirilmelidir.
- Yerel yetkililerin/kurumların bağlantı kriterlerini dikkate alın.



Tehlike!

Elektrik yüklü parçalara dokunmak ölümcül olabilir.

Kurulum işleminden önce güç kaynağı bağlantısını kesin.



Uyarı!

LSN kablosuna ait bir kablo ekran teli bağlanması gerekiyorsa LSN teknik özelliklerine göre ilerleyin.

- Panel tarafındaki LSN kablo ekranını ilgili işlevsel toprak konnektörüne bağlayın. Loop'un iki tarafının (başlangıcı ve sonu) ekranı panele bağlanmalıdır
- Tüm LSN saha elemanlarındaki kablo ekranını verilen terminalleri kullanarak yerleştirin
- Herhangi bir konumdaki toprak konnektörlerinde ya da diğer elektrik potansiyelinde ek LSN kablo ekranı bağlantısına izin verilmez

2.4

Kullanıcı Notları

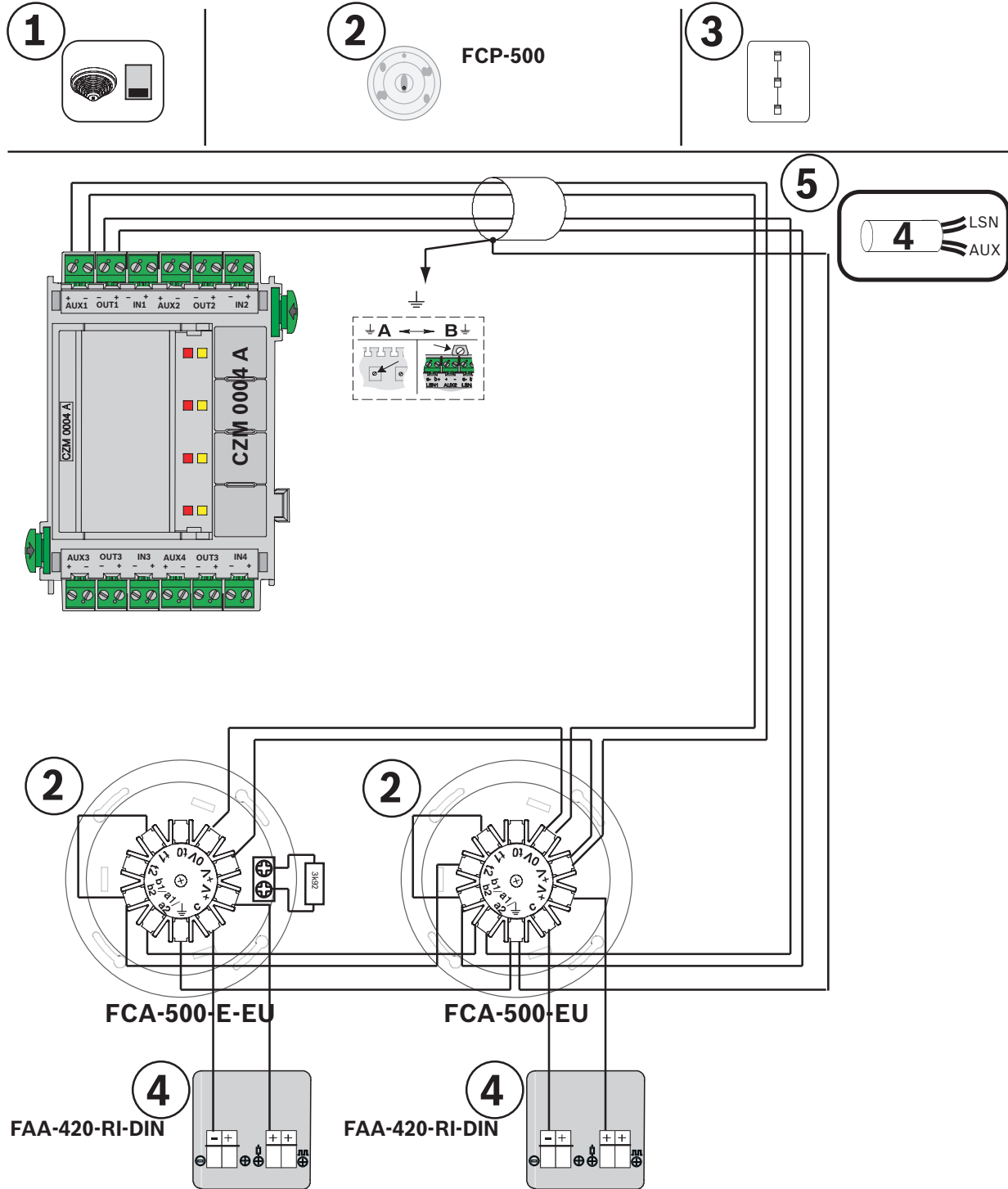
Bu bağlantı şeması aşağıdaki şekilde yapılandırılmıştır:

- *Kablo bağlantısı, sayfa 18* bölümü saha elemanının bağlandığı cihaza göre sıralanmıştır. Bir kablo bağlantısı bir cihazın diğer cihaza doğrudan bağlantısını gösterir (kademeli bağlantı yok). Genellikle, kablo bağlantılarında muhafaza gösterilmez. Aşağıdaki örnek kablo bağlantısı muhafazayı göstermektedir.
- EOL bölümündeki sürünme açık izleme için ek EOL modülleriyle zenginleştirilen tüm kablolardan oluşan bir koleksiyon bulun.

Gerekli kablo bağlantısını bulmak için şunları da kullanabilirsiniz:

- Kablo bağlantısı, sayfa 18 bölümü ile Fonksiyonel modüller, sayfa 48, Arayüz modülleri, sayfa 136 bölümleri ve EOL'nin başındaki içindekiler bölümü.
- Index (tarafsız dil),
- ve tam metin arama.

Aşağıdaki örnek kablo bağlantısına bakın:



1 Bölüm sembolleri (*Bölüm Sembolleri*, sayfa 14)

2 Bağlanabilir saha elemanları

3	Bağlantı sembolleri (<i>Bağlantı Sembolleri, sayfa 14</i>)
4	Opsiyonel parçalar
5	Güç Kaynağı ve Kablo Bağlantısı (<i>Güç Kaynağı ve Kablo Bağlantısı, sayfa 15</i>)

Bkz.

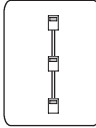
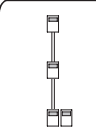
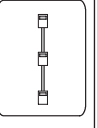
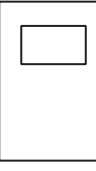
– EOL, sayfa 180

2.4.1 Bölüm Sembolleri

	Otomatik dedektörler		Çalışma ve ekran panelleri		Yazıcı
	Güç kaynağı		İşlev modülleri		Yangın servis ekipmanı
	Arayüz modülleri		Yangın söndürme sistemleri		Manuel yangın butonları
	Sinyal cihazları		Kapı kontrolleri		Aktarım üniteleri
	Network sistemi				

2.4.2 Bağlantı Sembolleri

	Konvansiyonel çevre biriminin izlenen/ izlenmeyen bağlantısı ya da izlenen/izlenmeyen konvansiyonel bildirim cihazı devre hattı. (CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A bağlantısındaki veya arayüz modülüyle kuru kontak bağlantılarındaki hat sonu direnci.)		Bu konvansiyonel çevre birimi bağlantısına bir geri besleme hattı bağlanabilir. / Çarpı işaretli çıkış simgesi bir geri besleme hattının gerekli olmadığını veya önerilmediğini gösterir. (FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A bağlantıları) Bir giriş bir hattı da geri besleme hattı olarak kullanılabilir (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1...).		Yedekleme
	Döngü kablo bağlantısı		Yedek elemanlı döngü kablo bağlantısı		Stub kablo bağlantısı

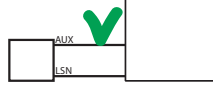
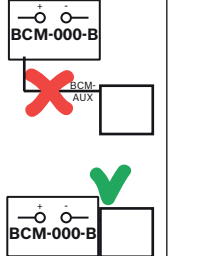
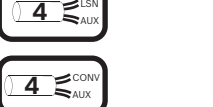
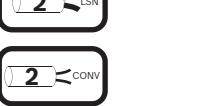
	Yedek stub kablo bağlantısı		Yedek elemanlı stub kablo bağlantısı		Yedek elemanlı yedek stub kablo bağlantısı
ELS	Bu kablo bağlantısı Uzatılmış Hat Denetimi'nin kısaltması olan ve sürüklenen kısa devre ve sürüklenen açık izleme anlamına gelen VdS 2543. ELS ile uyumludur. Bu kablo bağlantısı ELS sunar. Sürünme açık izleme için ek EOL modülleri ile zenginleştirilen tüm kablo bağlantılarını EOL bölümünde bulabilirsiniz. Sürüklenen bir kısa devre şu modüller tarafından algılanır: LSN 0300 A, LSN 1500 A ve FPP-5000-TI13 kullanılırken BCM-0000-B.		Bu döngü kablo bağlantısı VdS 2543 ile uyumludur. ELS sunar. Ek EOL modülleri gerekli değildir.		Eşitleme
	Patlama tehlikesi bulunan bölgeler		Panel		Bağımsız panel
	Yedeklemeli bağımsız panel		İzin verilmiyor		Dedektör tabanları için: Kablo bağlantısı yalnızca dedektörün monte edildiği dedektör tabanı için geçerlidir.
-----	İsteğe bağlı kablo bağlantısı	_____	Zorunlu kablo bağlantısı	EN 54-2, DIBT vb.	Bu standarda uygunluk gerekiyorsa belirtilen kablo bağlantısını kullanın.

2.4.3

Güç Kaynağı ve Kablo Bağlantısı



Ek güç kaynağı

	Panel yoluyla güç beslemesi Güç kaynağı elemandan ayrı olmalıdır.
	Panel aracılığıyla kullanılan güç kaynağı/Harici güç kaynağı Elemana BCM-000-B ile güç verilir. Eleman BCM-000-B'yi içeren ürünün muhafazasıyla aynı hizada olacak şekilde monte edilmelidir.
	Kablo bağlantısı, 4 kablolu bir bağlantıdır. Aksi takdirde 2 kablolu bir bağlantı olur.
	Kablo bağlantısı, 2 kablolu bağlantıdır.
	Bu kılavuzdaki kablo bağlantısına bakın.
	Bağlı çevre cihazının teknik belgelerine bakın.

2.5

Direnç Değerleri

Aşağıdaki tabloda direnç renk kodları hakkında genel bilgiler verilmektedir. Ürünle birlikte verilen metal film dirençler, direnç değerini gösteren 5 renkli şeritlere sahiptir.

Renk	1. şerit	2. şerit	3. şerit	4. şerit (çarpan)	5. şerit (hata payı)
Gümüş				10 ⁻²	±10%
Altın				10 ⁻¹	±5%
Siyah		0	0	10 ⁰	
Kahverengi	1	1	1	10 ¹	±1%
Kırmızı	2	2	2	10 ²	±2%
Turuncu	3	3	3	10 ³	±0.05%
Sarı	4	4	4	10 ⁴	±0.02%
Yeşil	5	5	5	10 ⁵	±0.5%
Mavi	6	6	6	10 ⁶	±0.25%
Mor	7	7	7	10 ⁷	±0.1%

Renk	1. şerit	2. şerit	3. şerit	4. şerit (çarpan)	5. şerit (hata payı)
Gri	8	8	8	10 ⁸	±0.01%
Beyaz	9	9	9	10 ⁹	

DIN EN 60062:2017 uyarınca

Turuncu — beyaz — siyah — kahverengi — kahverengi: %1 hata payına sahip 3,9 k Ohm direnç,

Kırmızı — kırmızı — siyah — kahverengi — kahverengi: %1 hata payına sahip 2,2 k Ohm direnç.

3 Kablo bağlantısı



FPP-5000 Power supply, sayfa 19

DIBT, sayfa 21

Fonksiyonel modüller, sayfa 48

BCM-0000-B, sayfa 49

CZM 0004 A, sayfa 51

ENO 0000 A/B, sayfa 55

LSN 0300 A, sayfa 62

NZM 0002 A, sayfa 97

RMH 0002 A, sayfa 113

IOS 0020 A, sayfa 116

FPE-5000-UGM, sayfa 131

Arayüz modülleri, sayfa 136

FLM-420/4-CON-D/S, sayfa 137

FLM-420-NAC-D/S, sayfa 162

FLM-420-RLE-S, sayfa 175

FLM-420-RLV1-E, sayfa 176

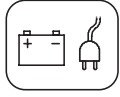
FLM-420-RLV8-S, sayfa 177

EOL, sayfa 180

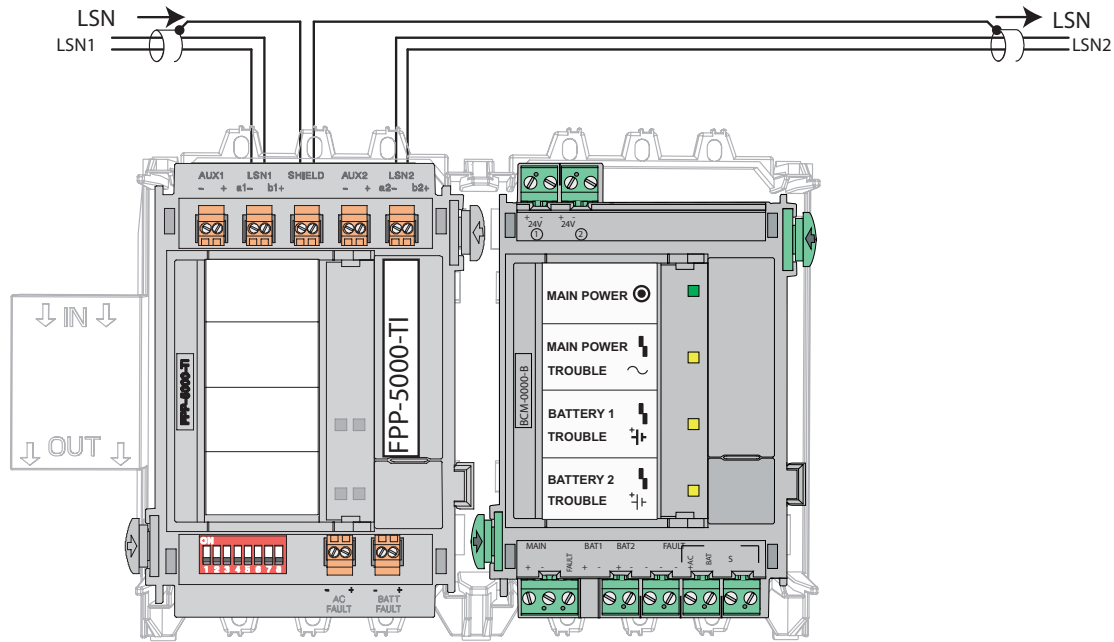
LSN 0300 A, sayfa 181

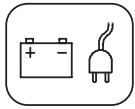
FLM-420/4-CON-S/D, sayfa 223

3.1 FPP-5000 Power supply



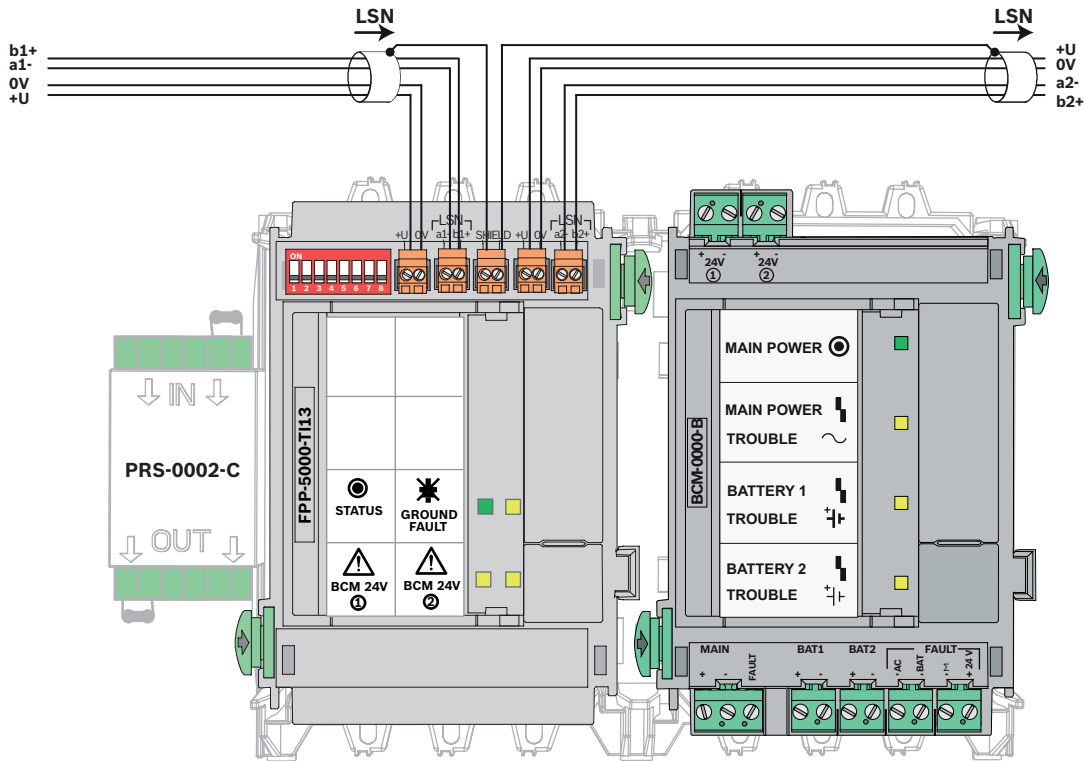
FPP-5000-TI





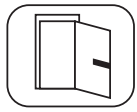
FPP-5000-TI13

ELS VdS 2489



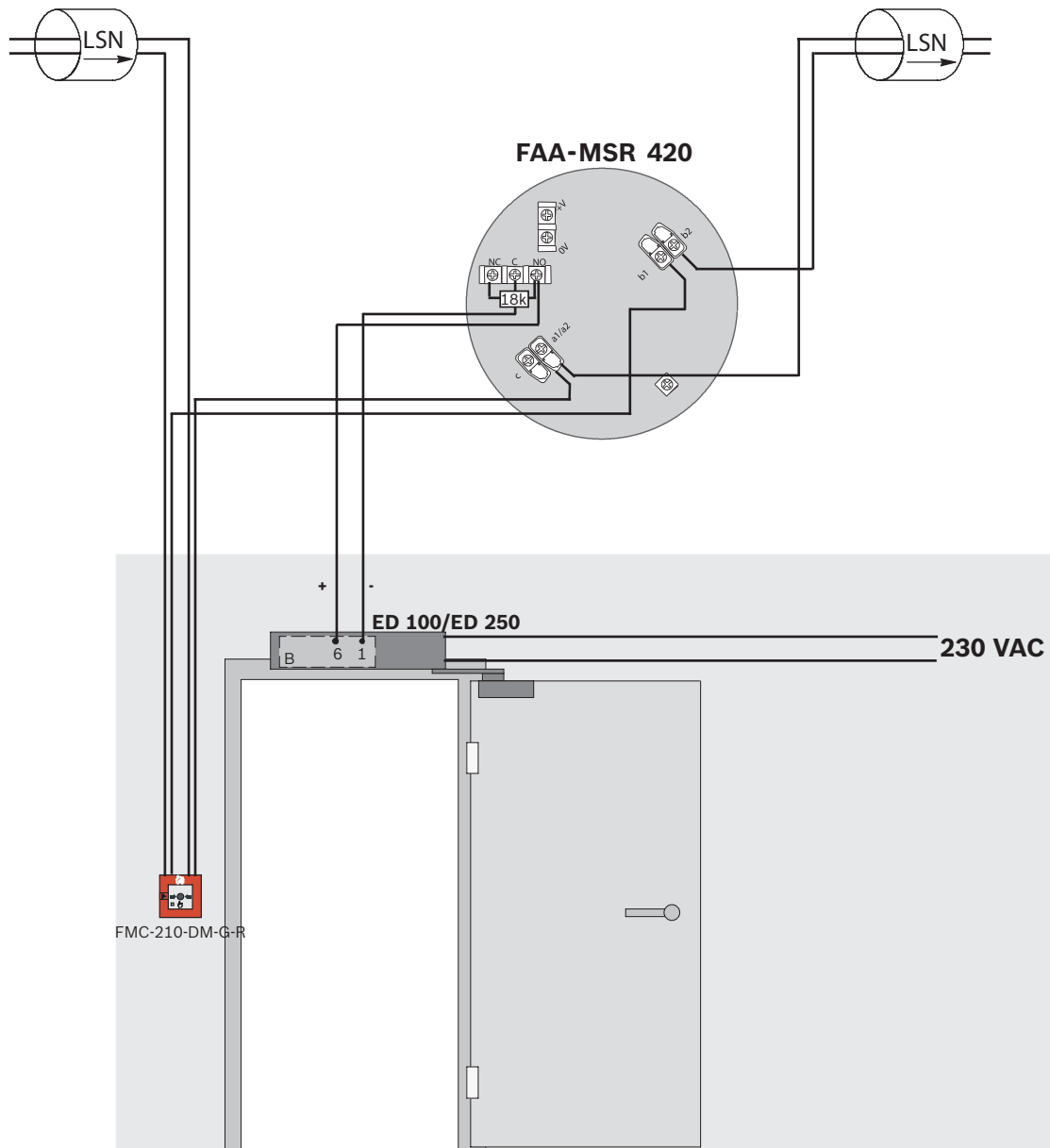
3.2

DIBT



ED 100
ED 250
(+Upgrade Card B)

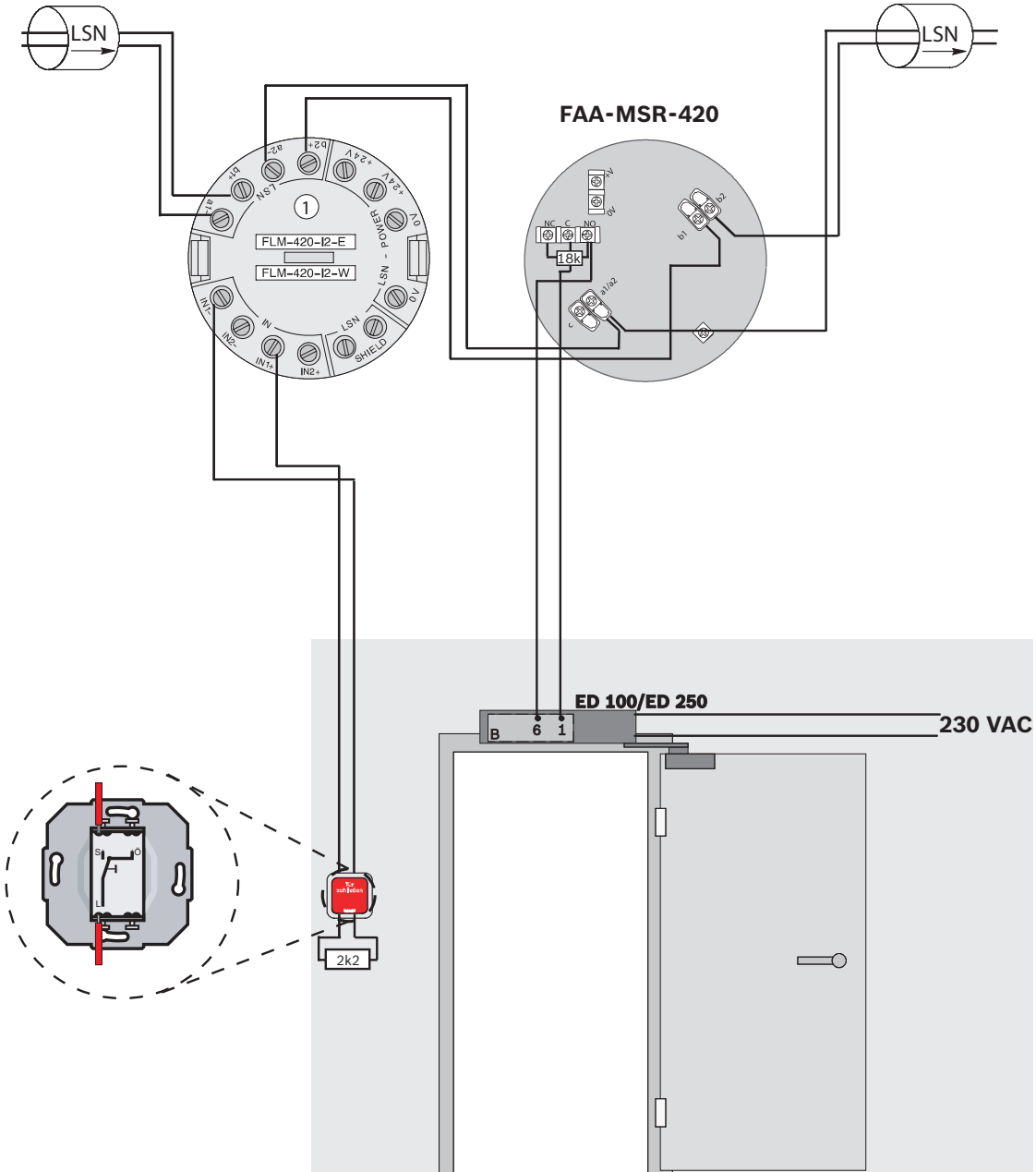
DIBT

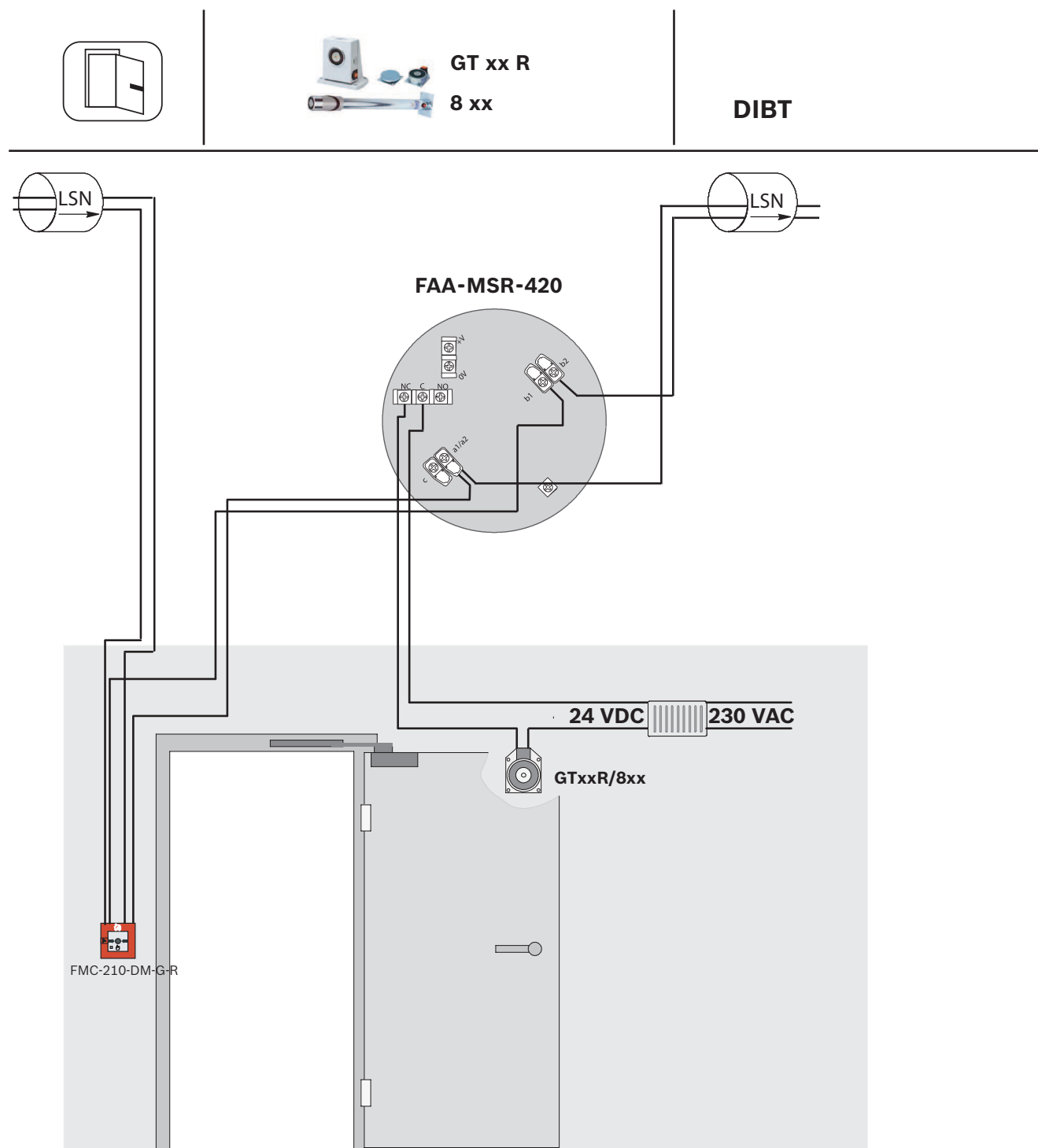




**ED 100
ED 250
(+Upgrade Card B)**

DIBT

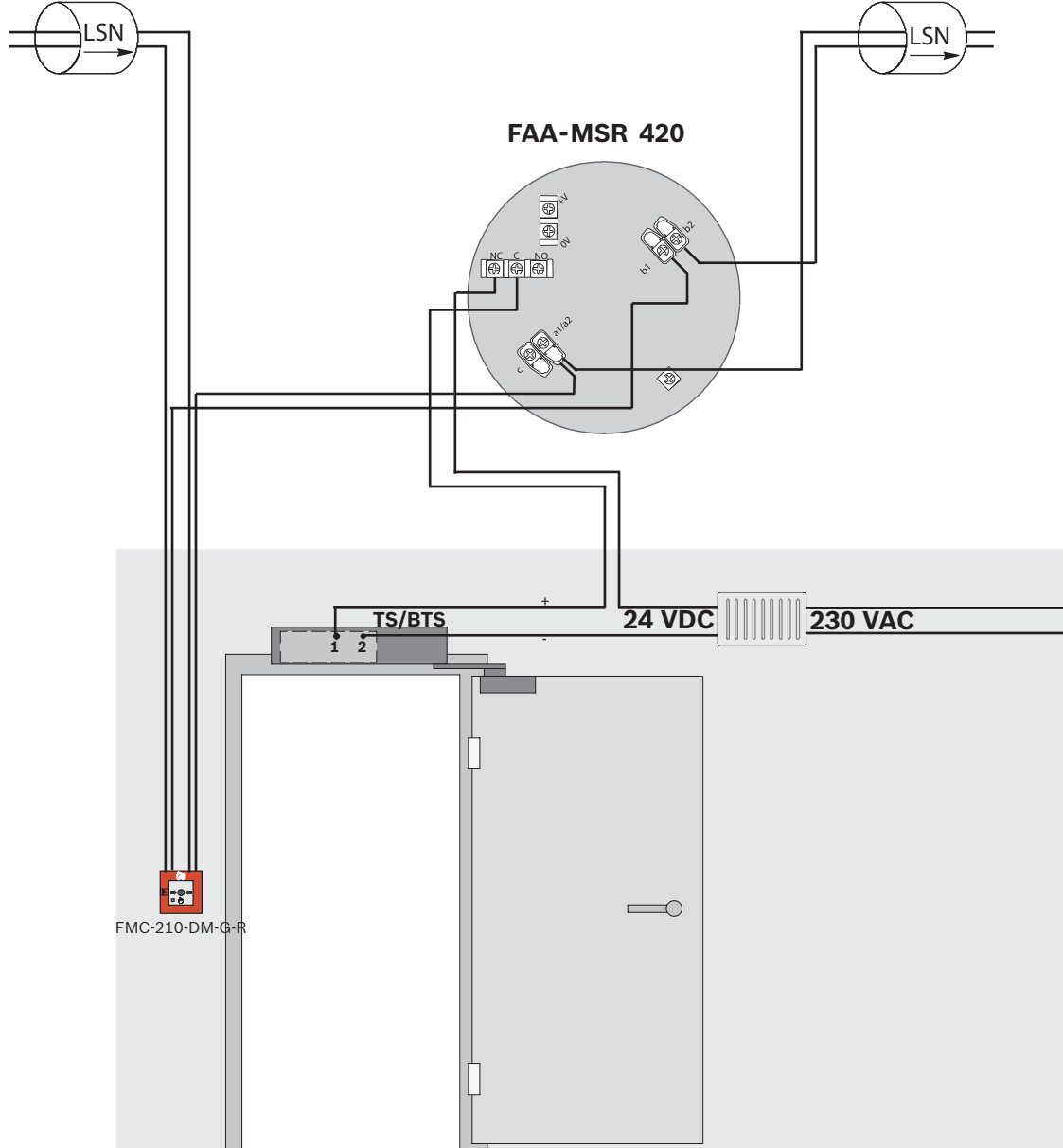


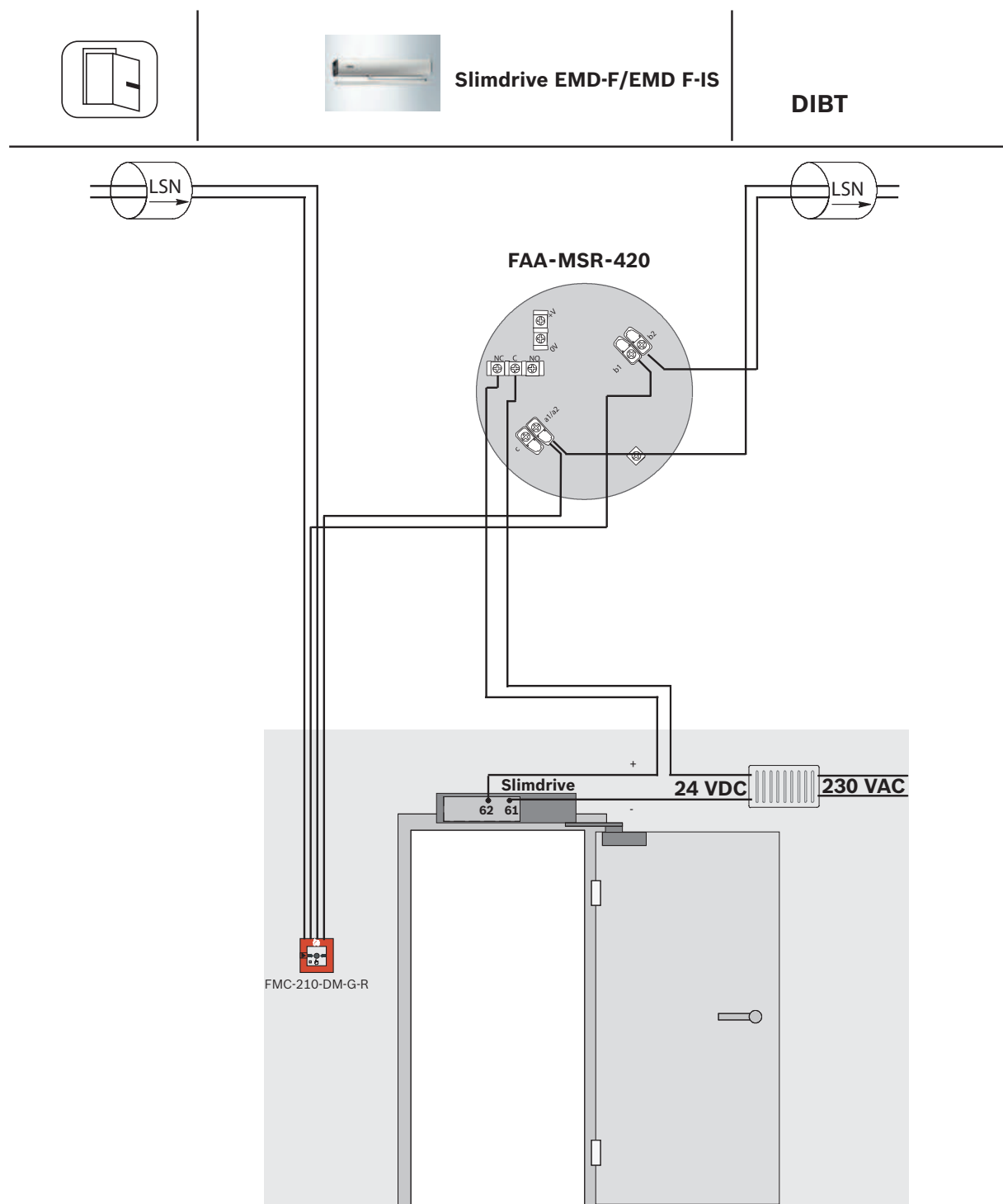




TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

DIBT

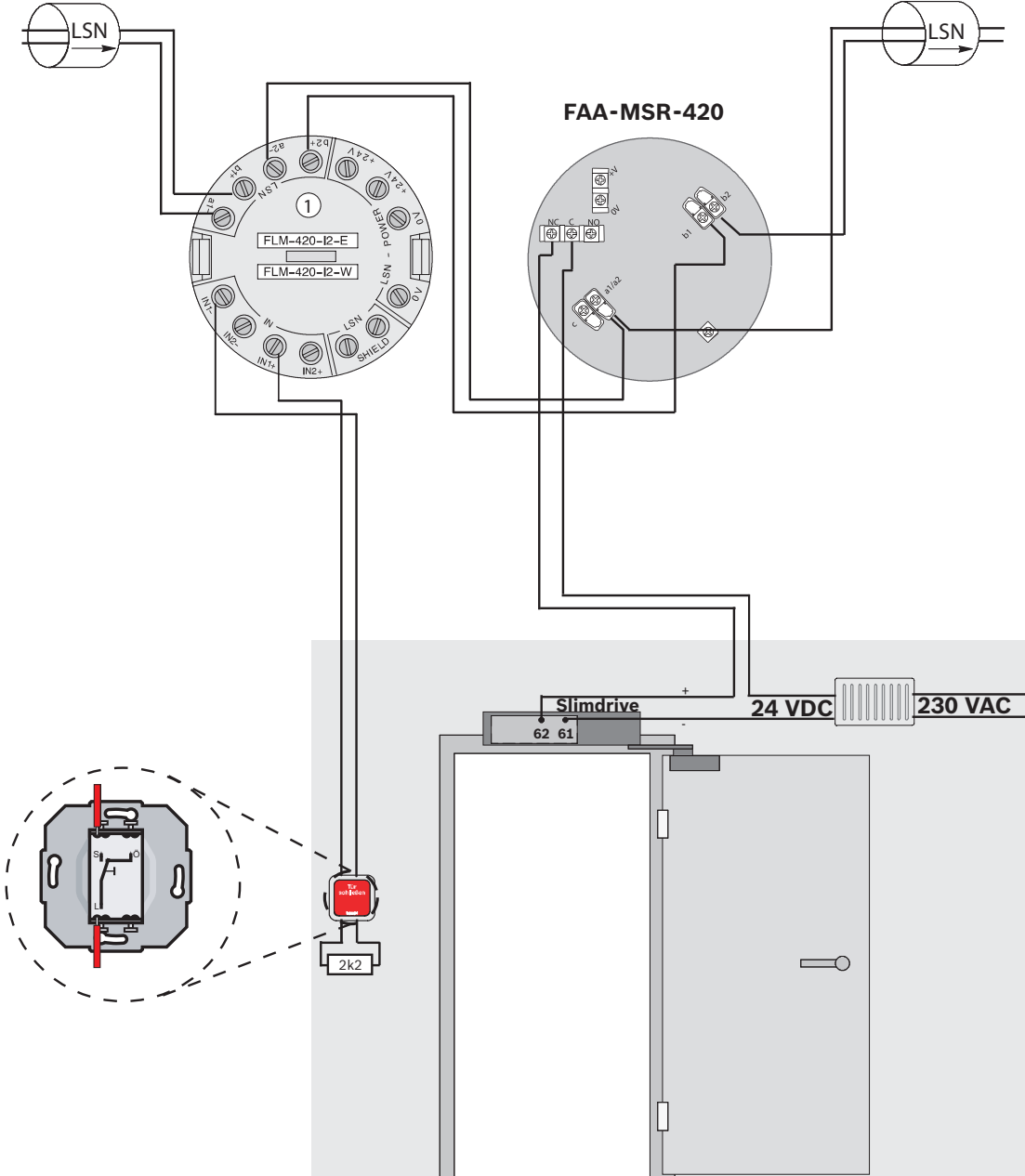


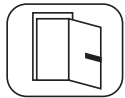




Slimdrive EMD-F/EMD F-IS

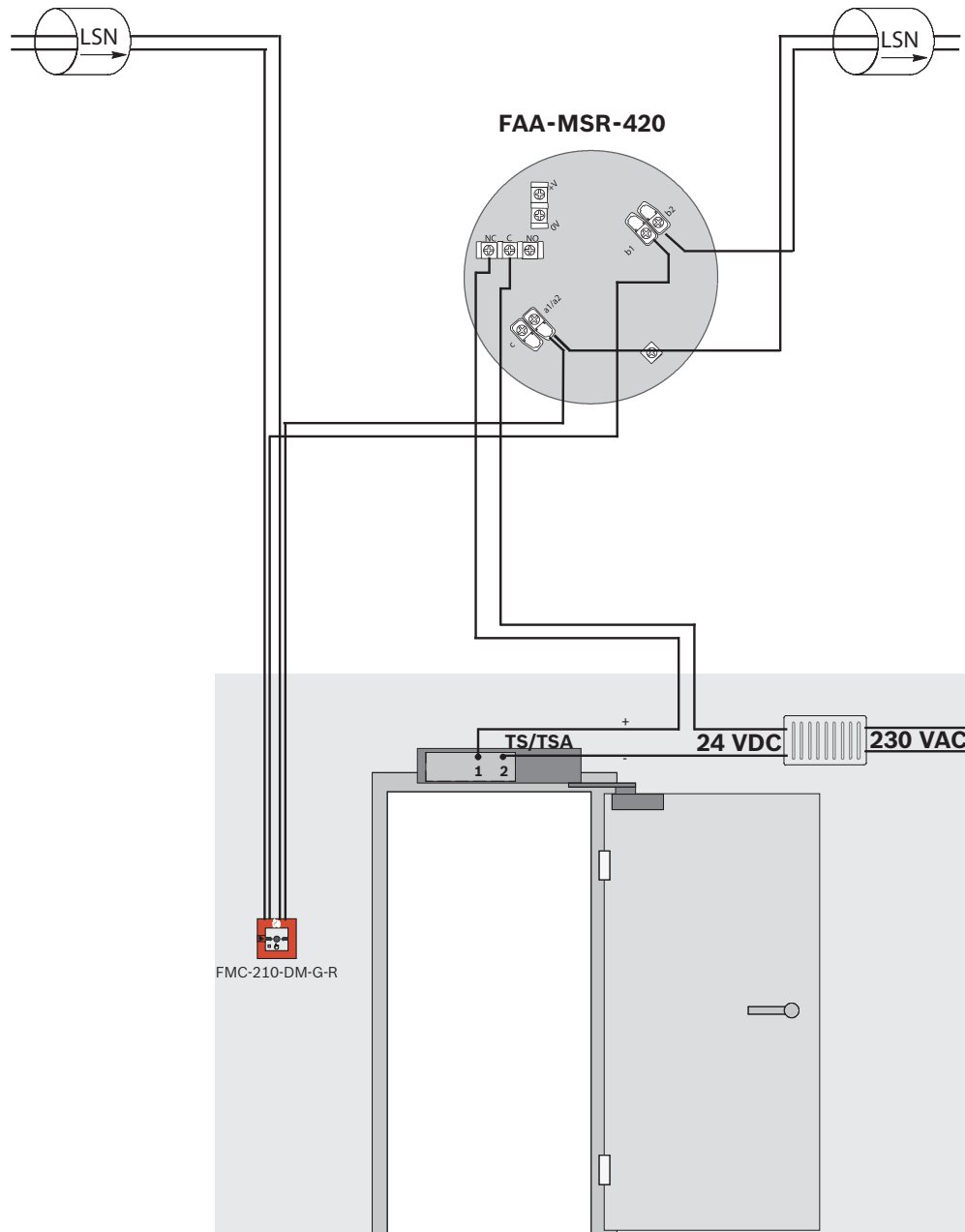
DIBT





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

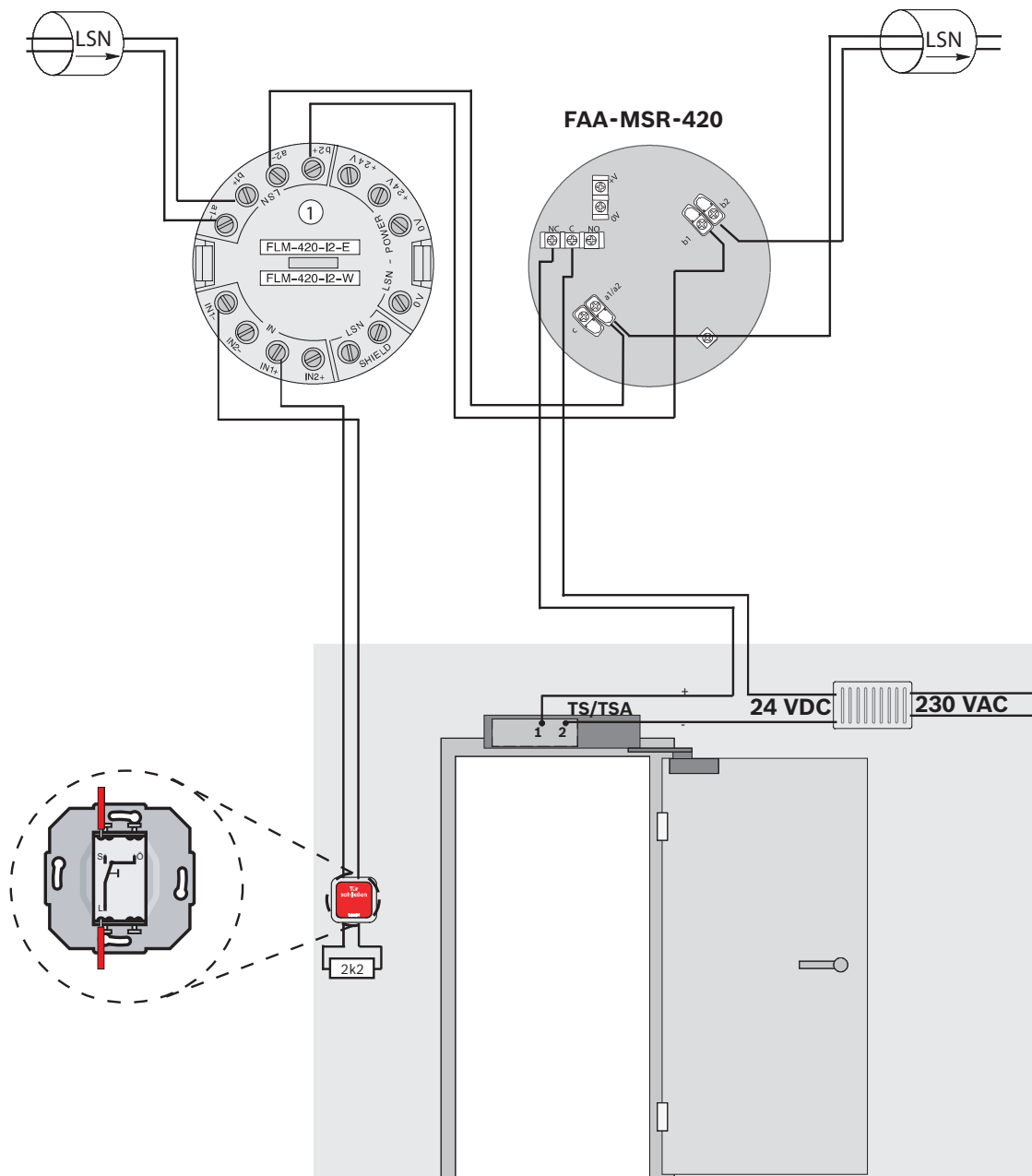
DIBT





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

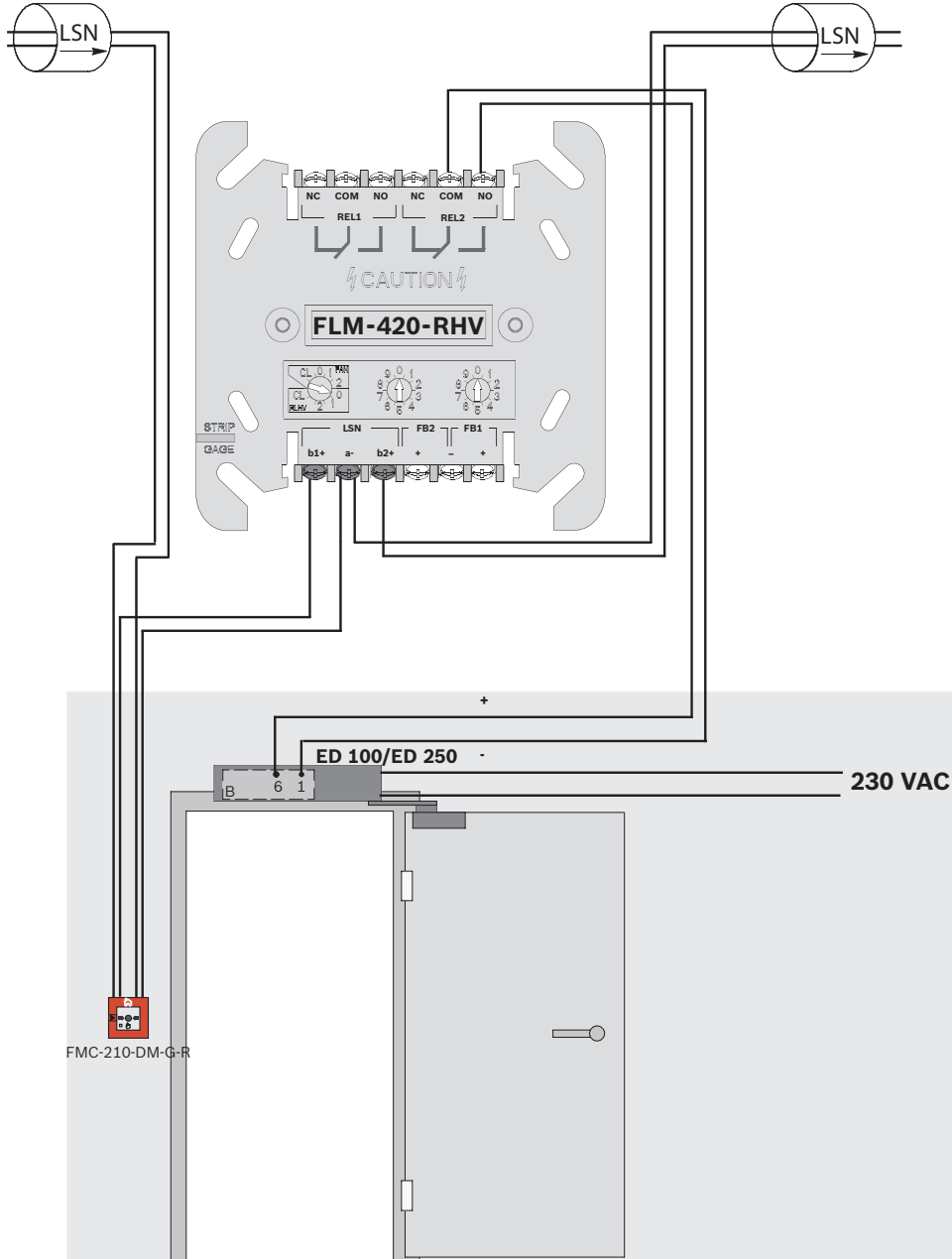
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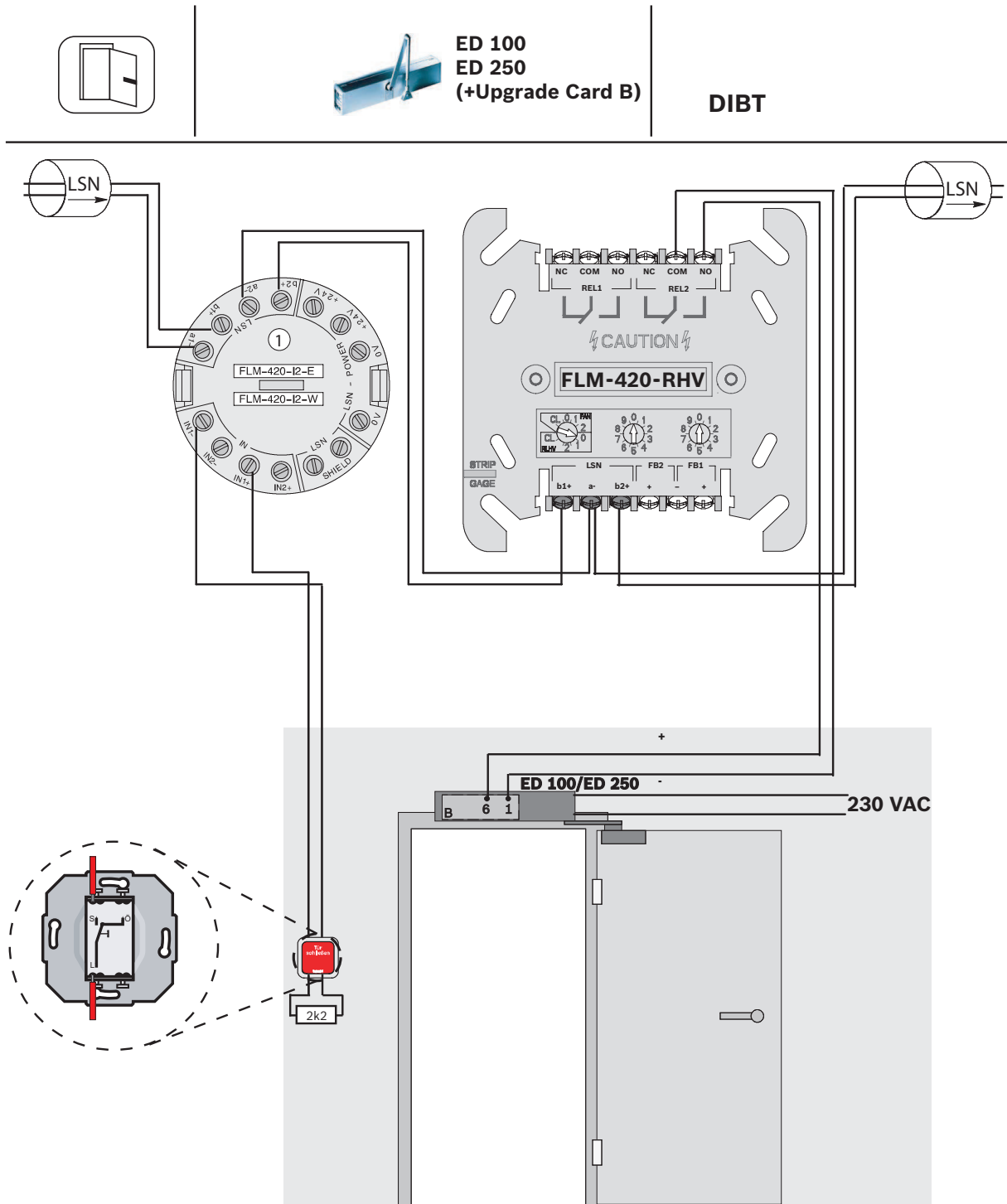




ED 100
ED 250
(+Upgrade Card B)

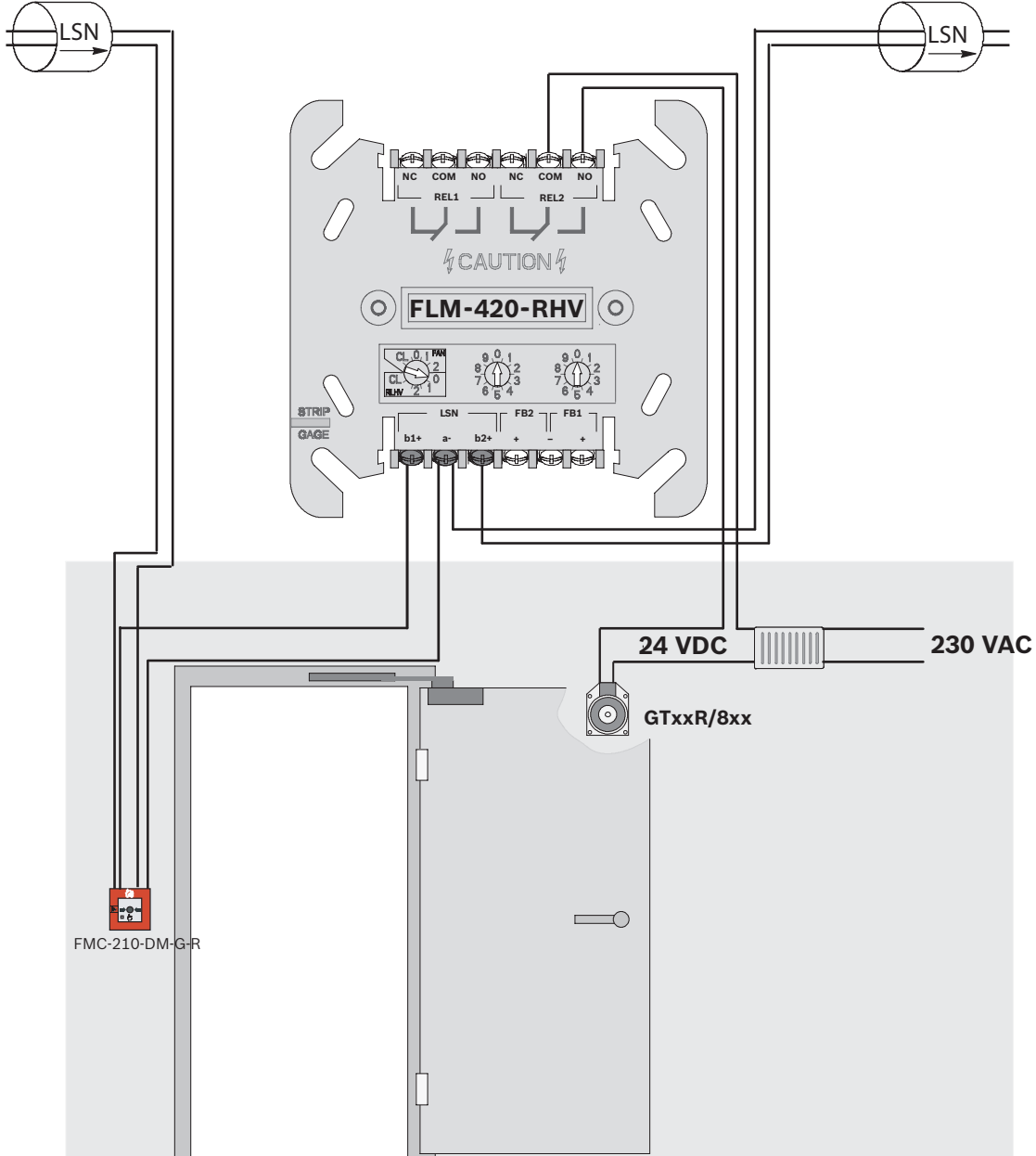
DIBT







DIBT

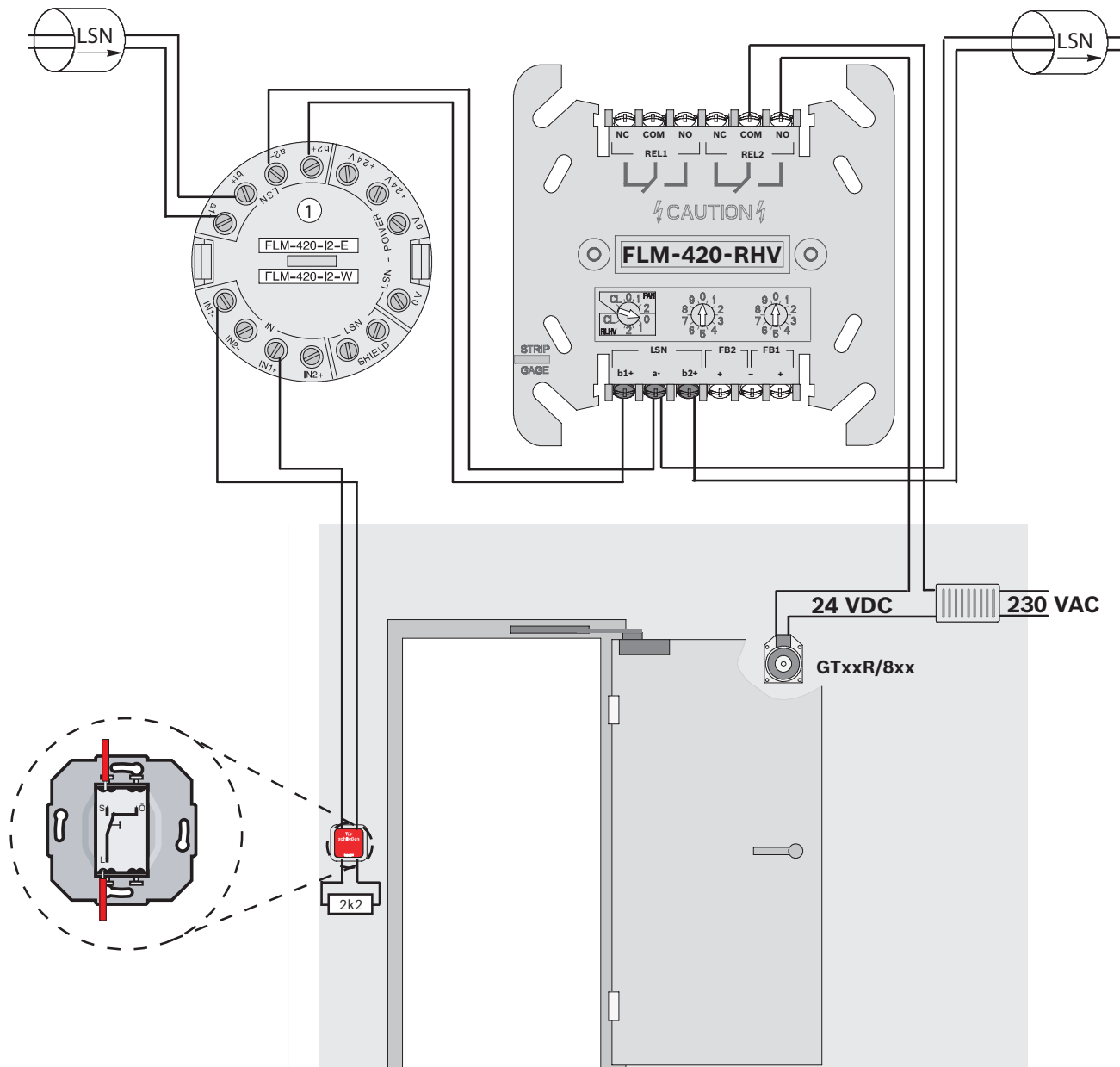




GT xx R

8 xx

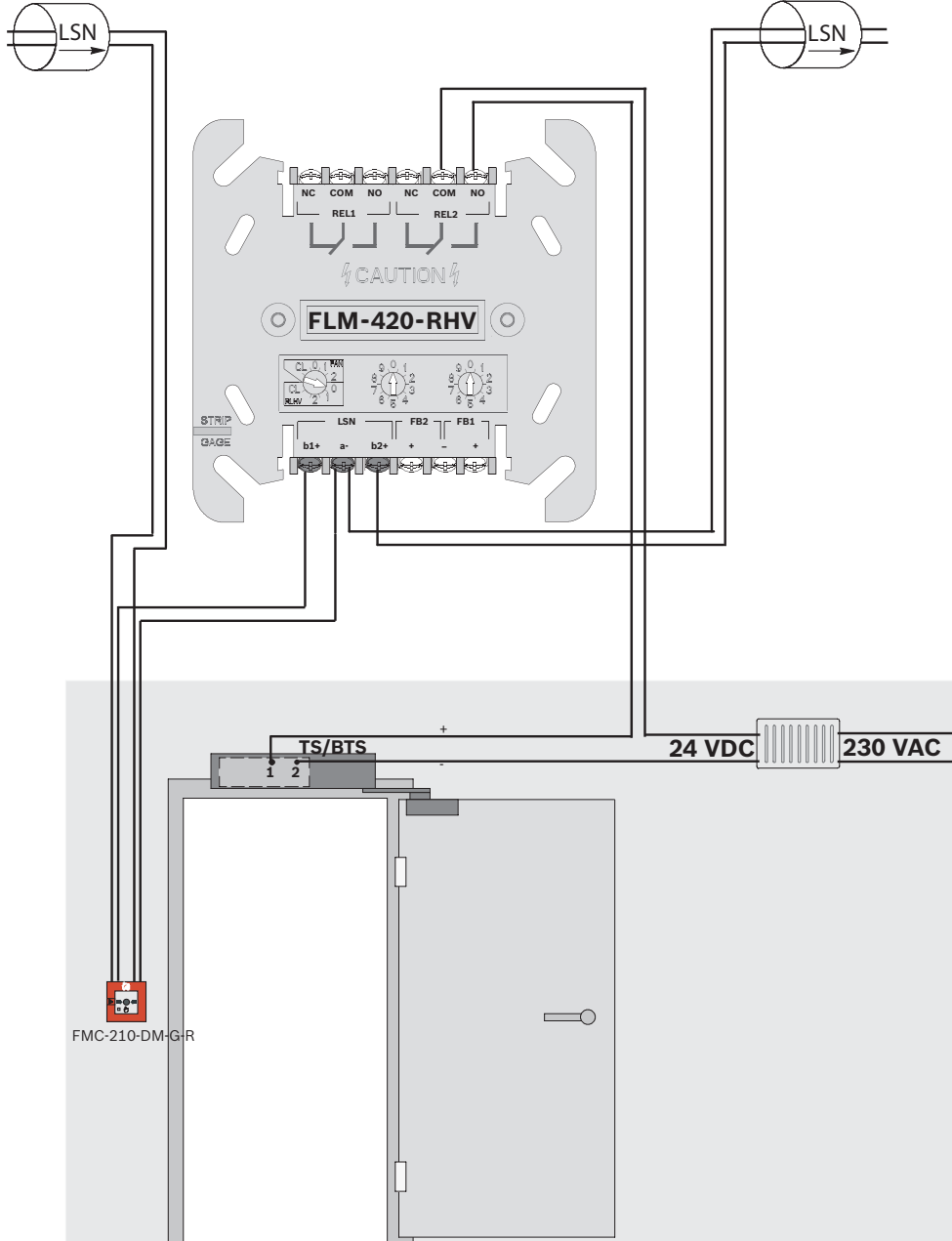
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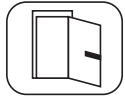




TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

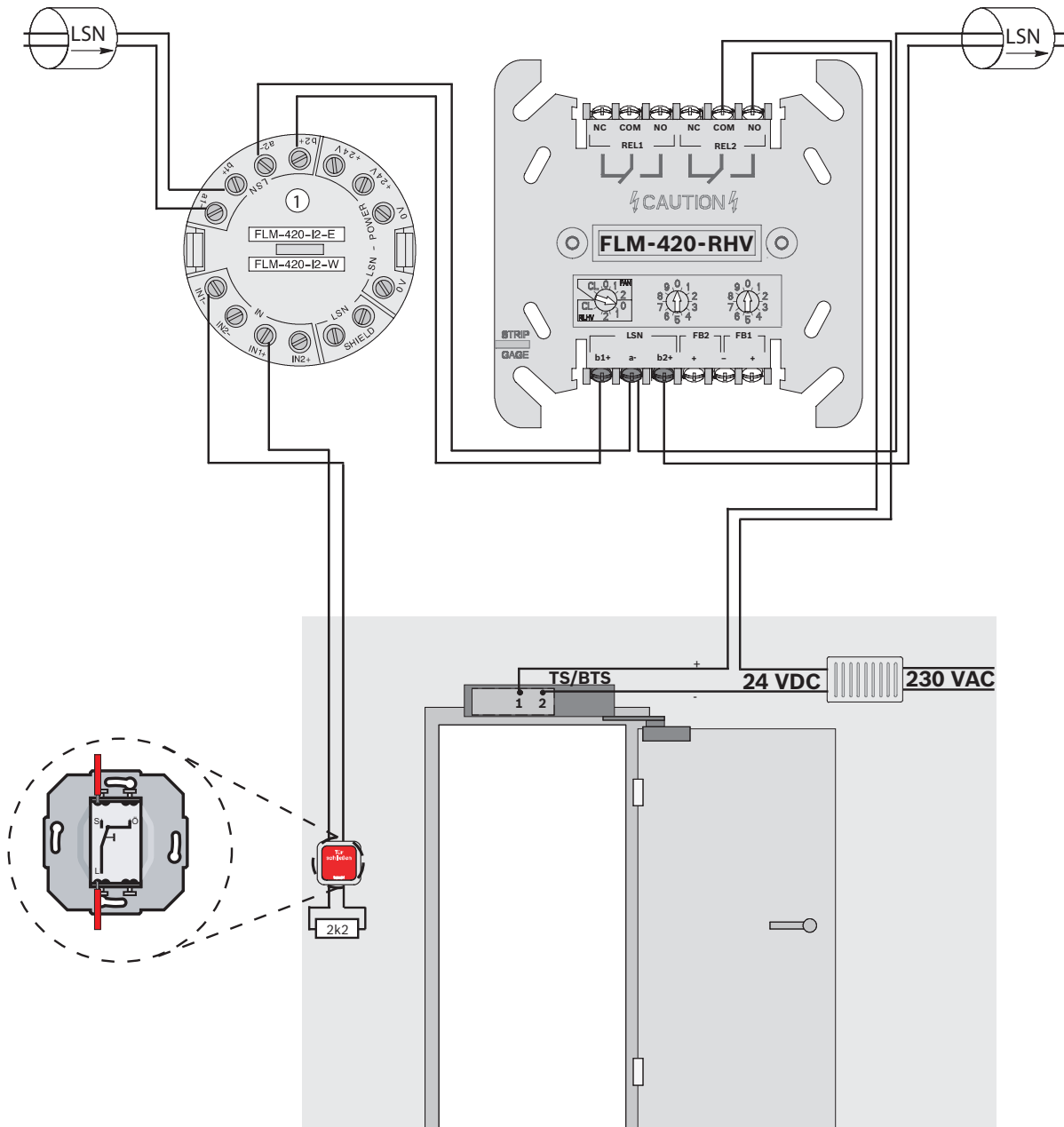
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TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

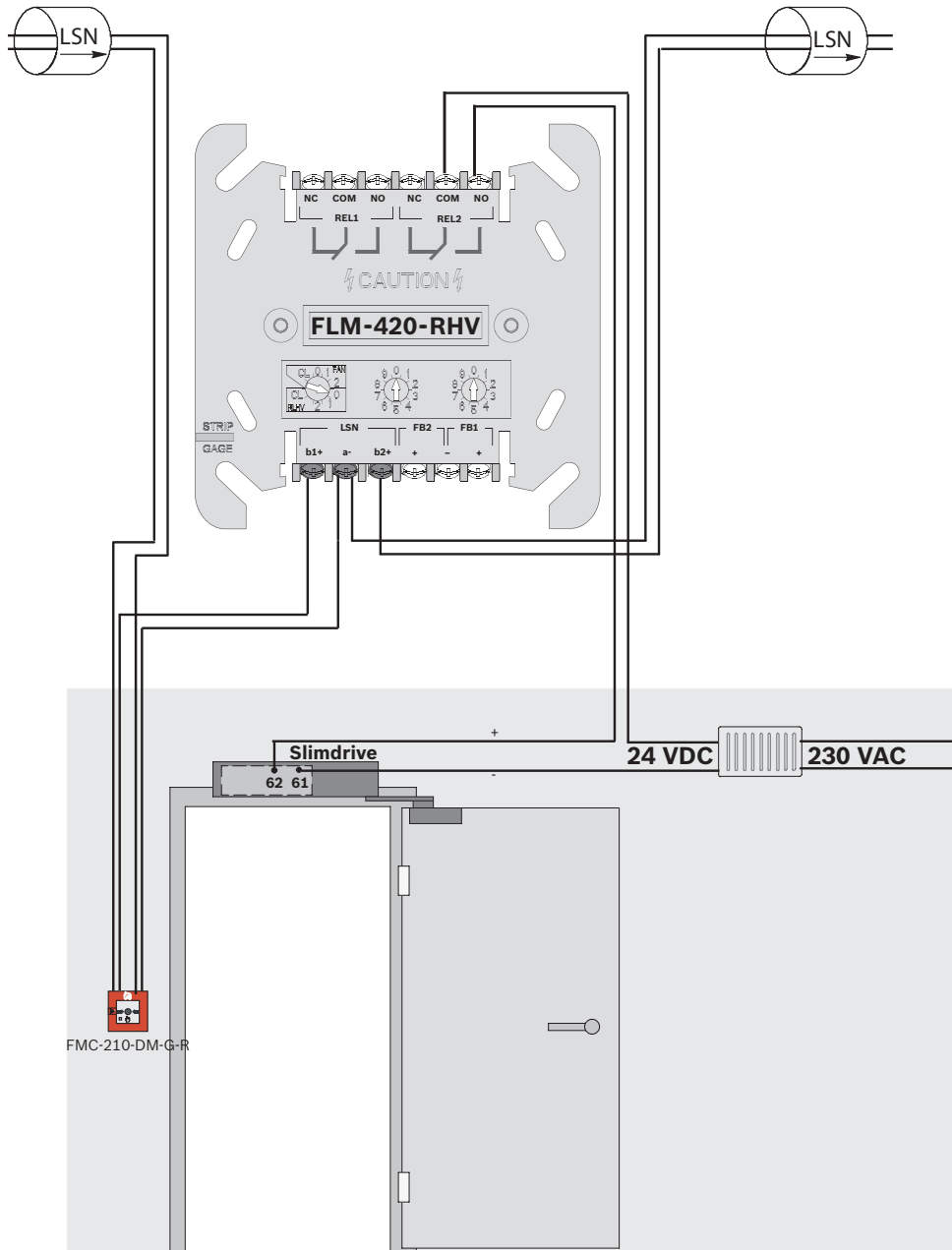
DIBT





Slimdrive EMD-F/EMD F-IS

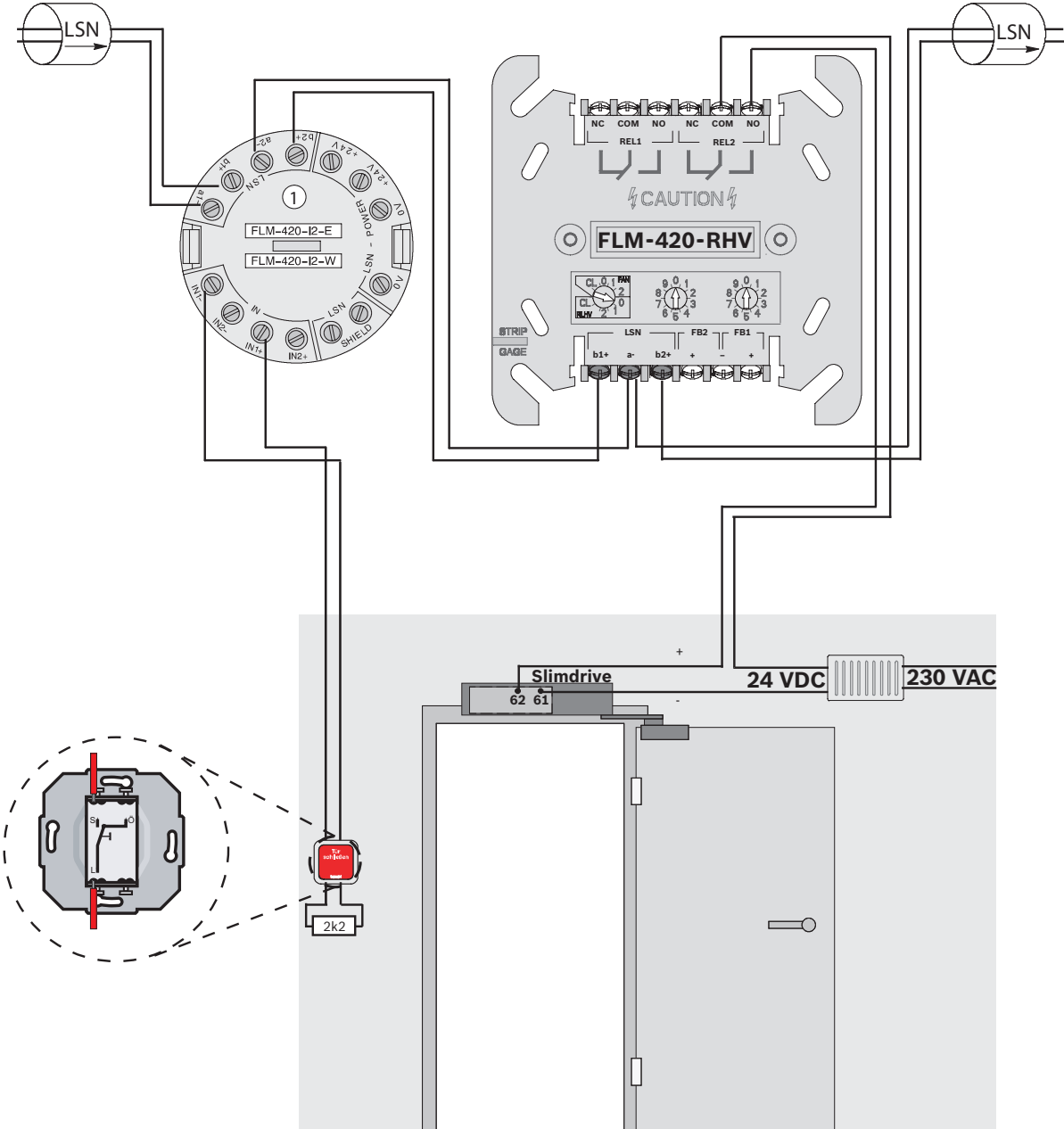
DIBT





Slimdrive EMD-F/EMD F-IS

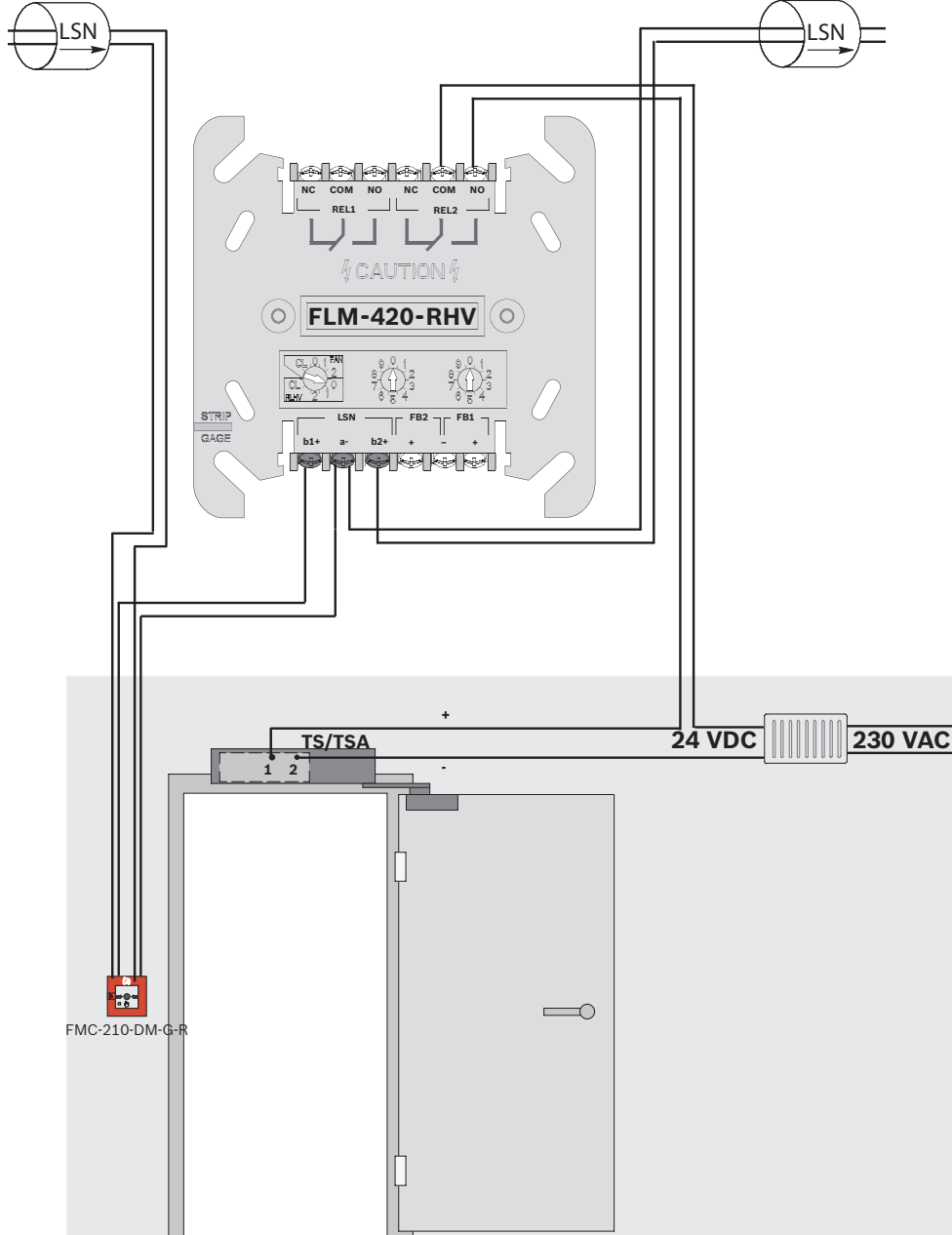
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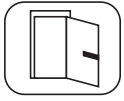




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

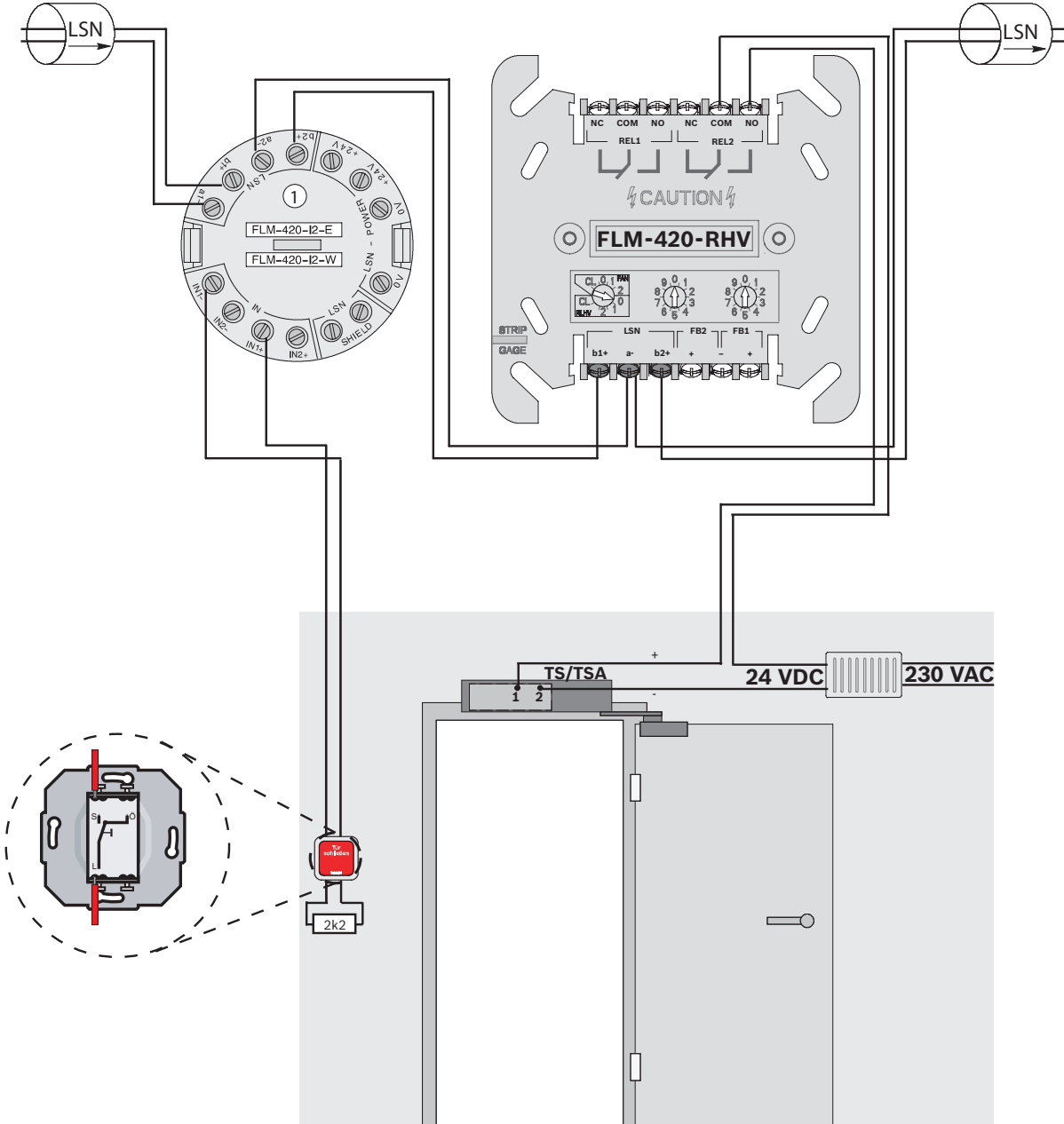
DIBT

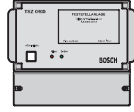




TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

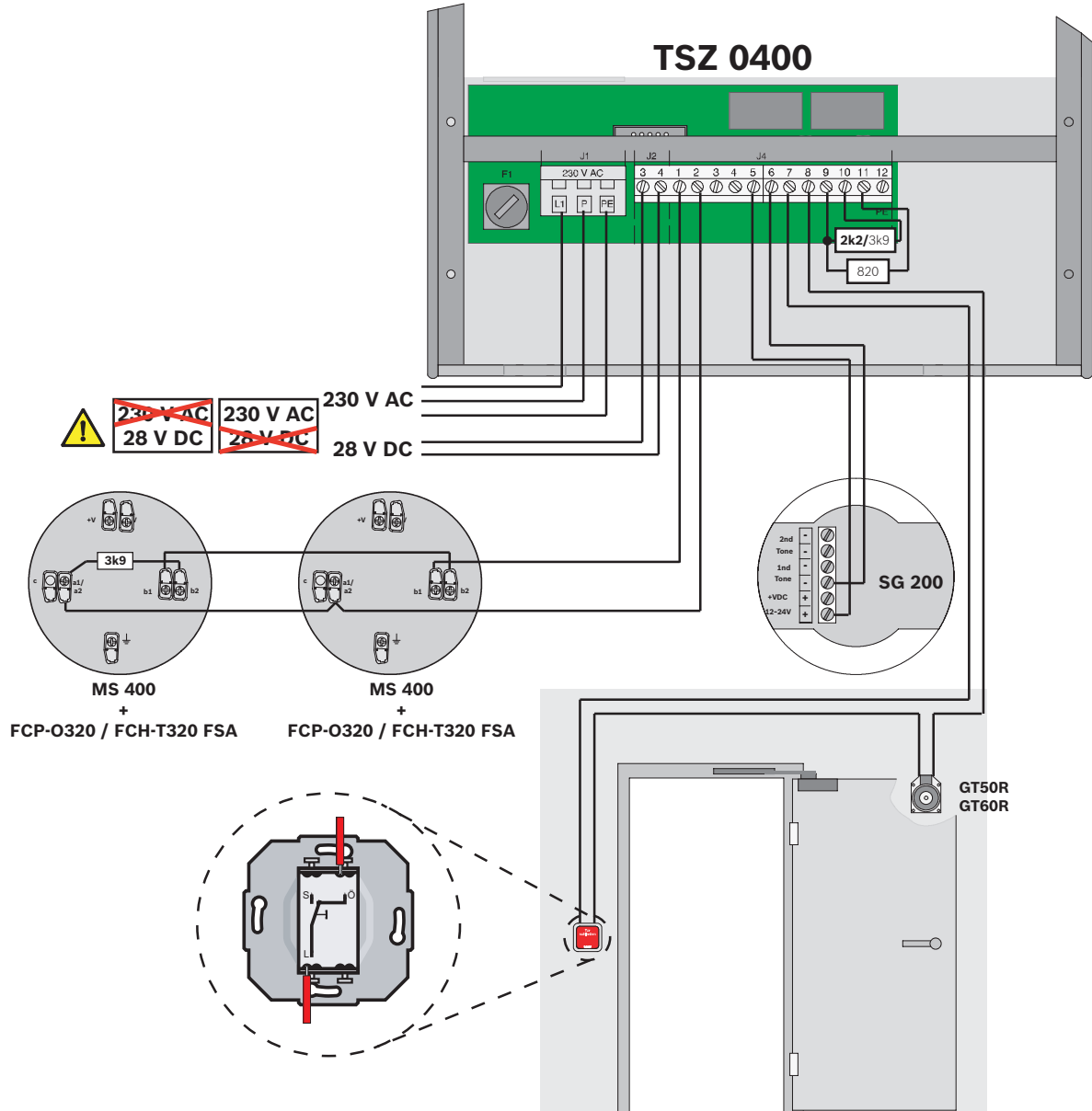
DIBT





TSZ 0400

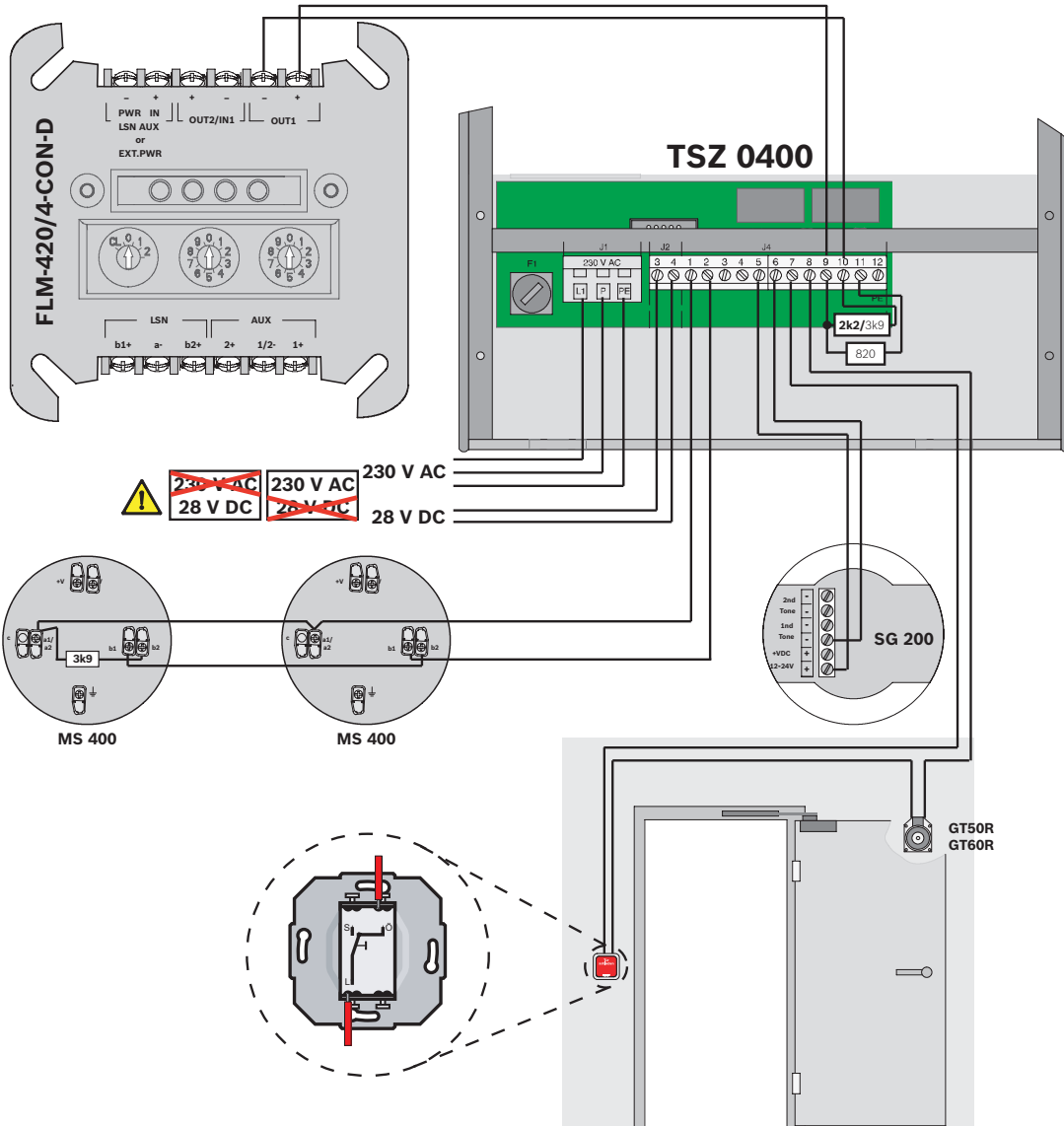
DIBT

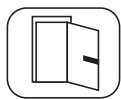




TSZ 0400

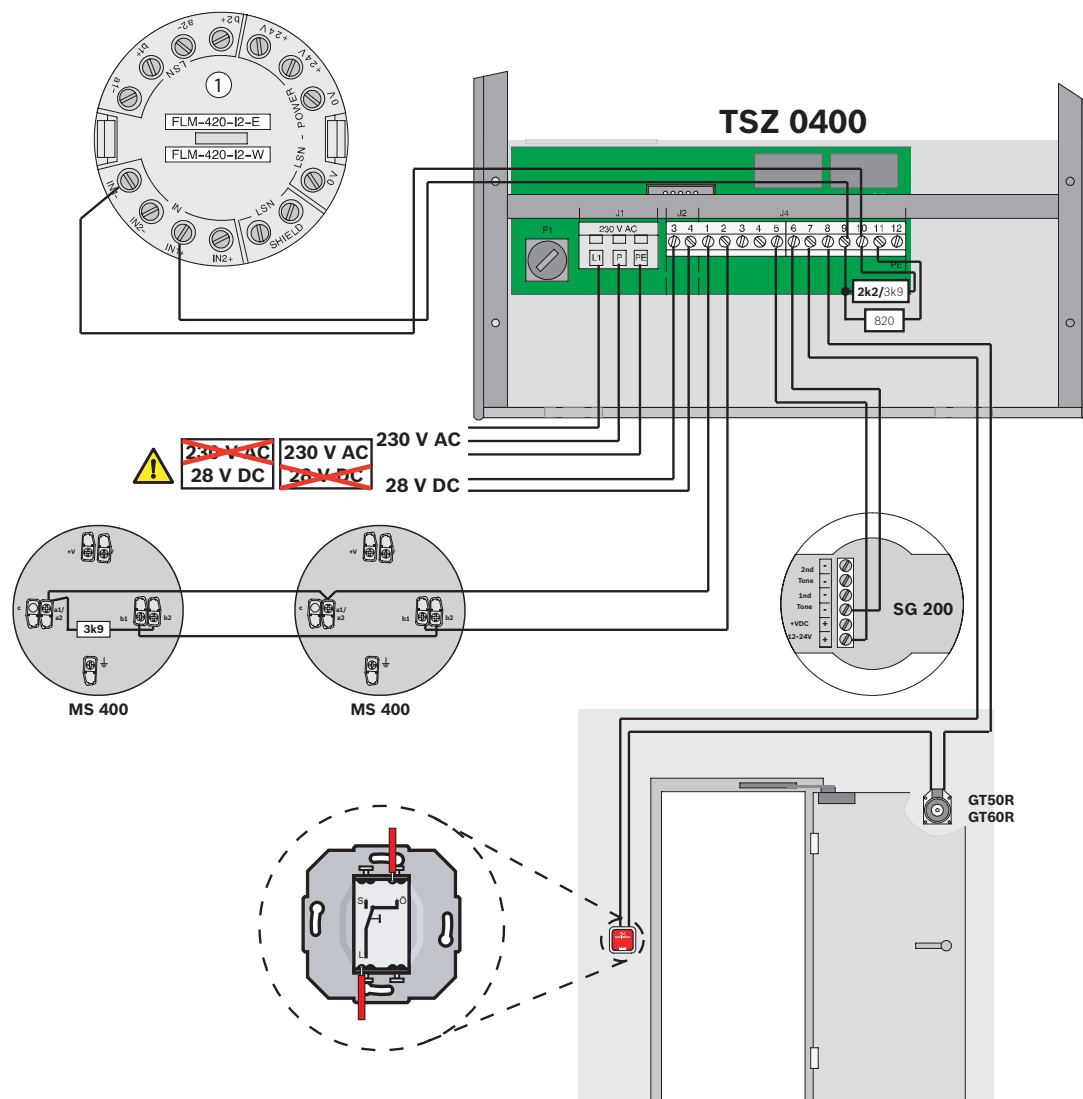
DIBT





TSZ 0400

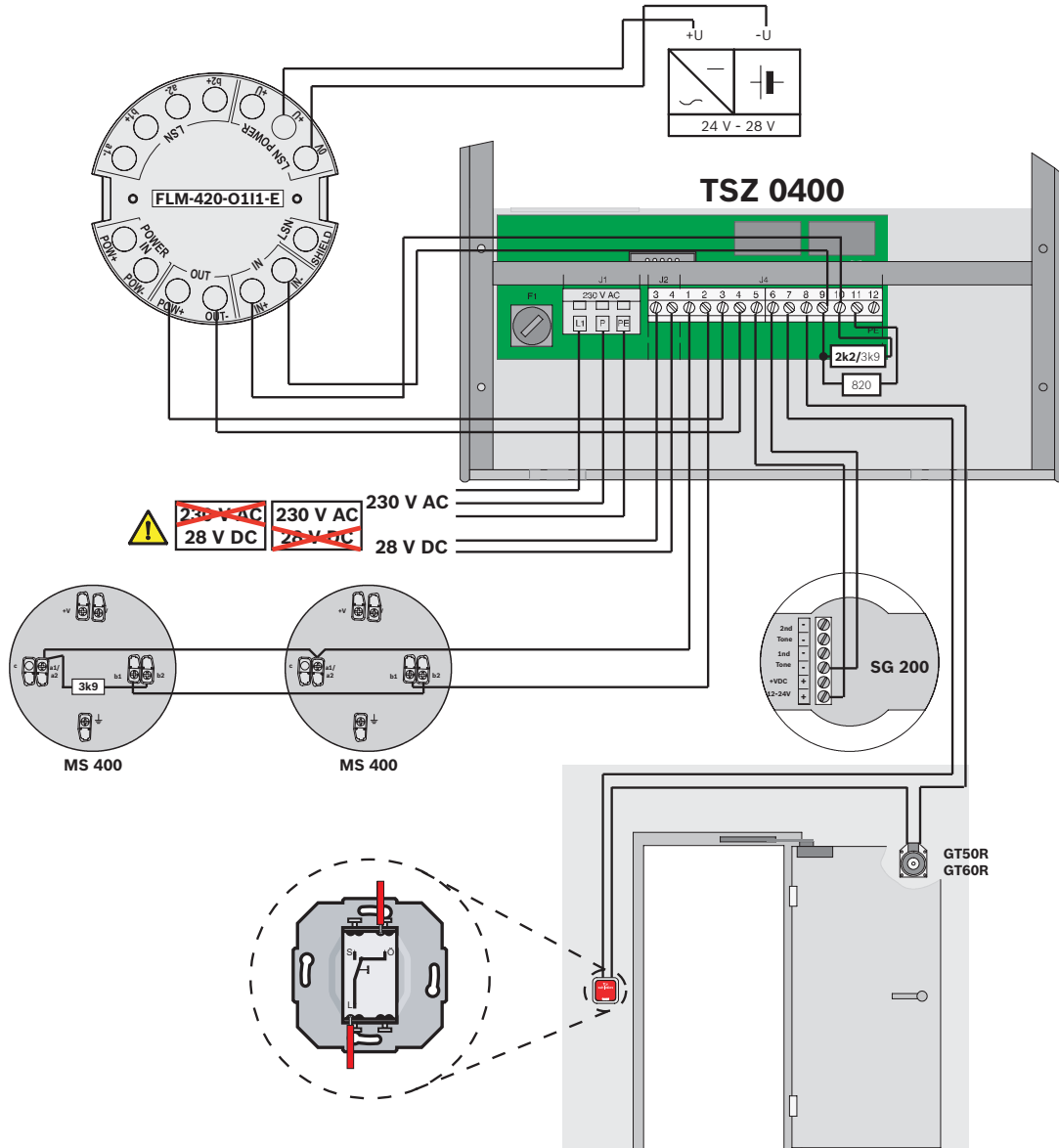
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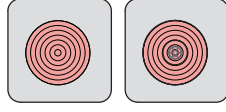




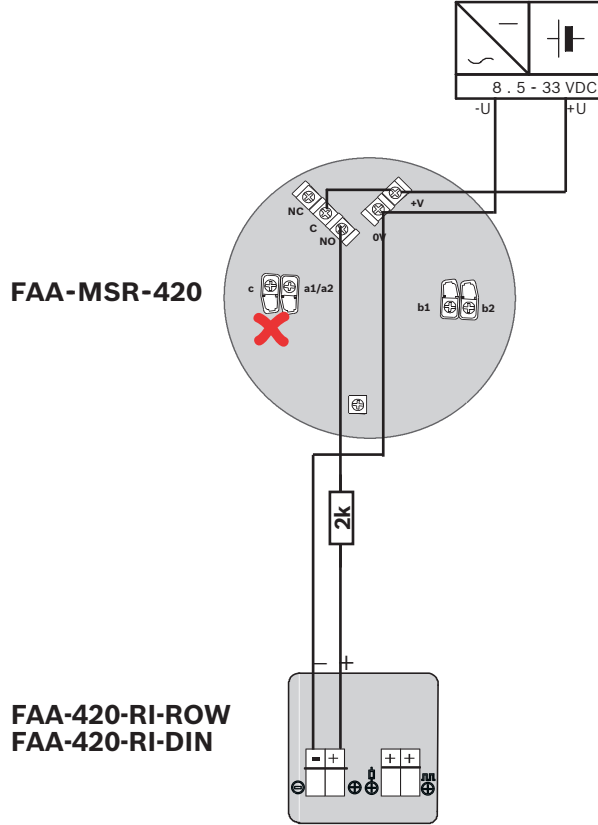
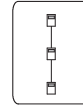
TSZ 0400

DIBT



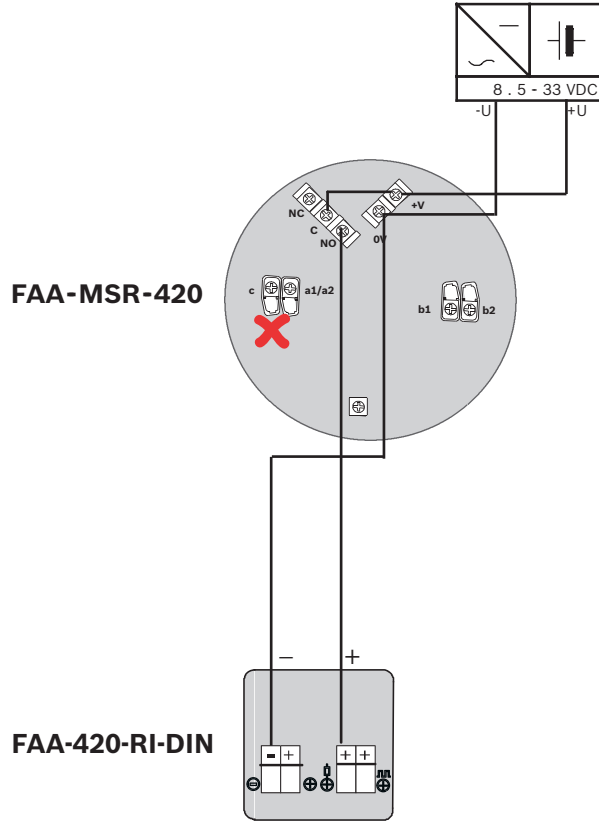
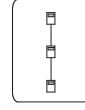


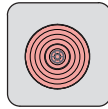
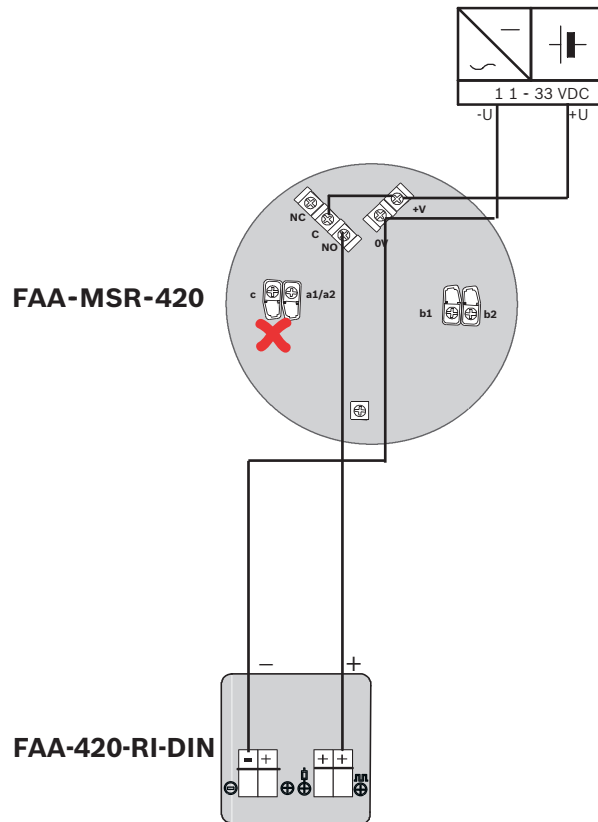
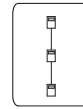
FAA-420-RI-ROW
FAA-420-RI-DIN





FAA-420-RI-DIN



**FAA-420-RI-DIN**

3.3

Fonksiyonel modüller



BCM-0000-B, sayfa 49

CZM 0004 A, sayfa 51

ENO 0000 A/B, sayfa 55

LSN 0300 A, sayfa 62

NZM 0002 A, sayfa 97

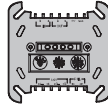
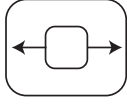
RMH 0002 A, sayfa 113

IOS 0020 A, sayfa 116

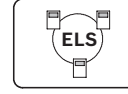
FPE-5000-UGM, sayfa 131

3.3.1

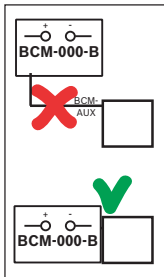
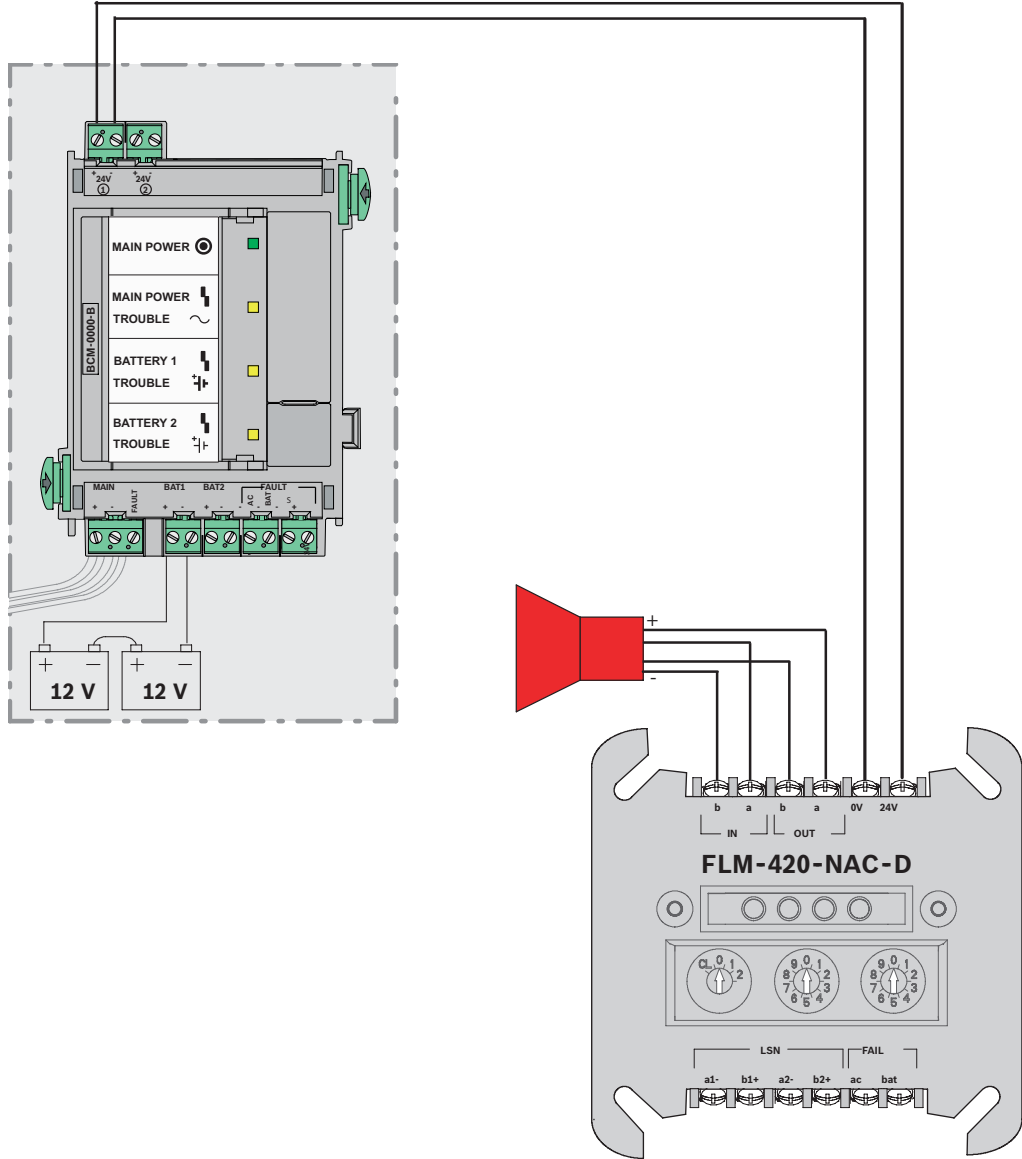
BCM-0000-B

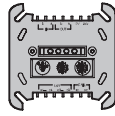
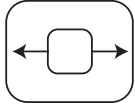


FLM-420-NAC-D

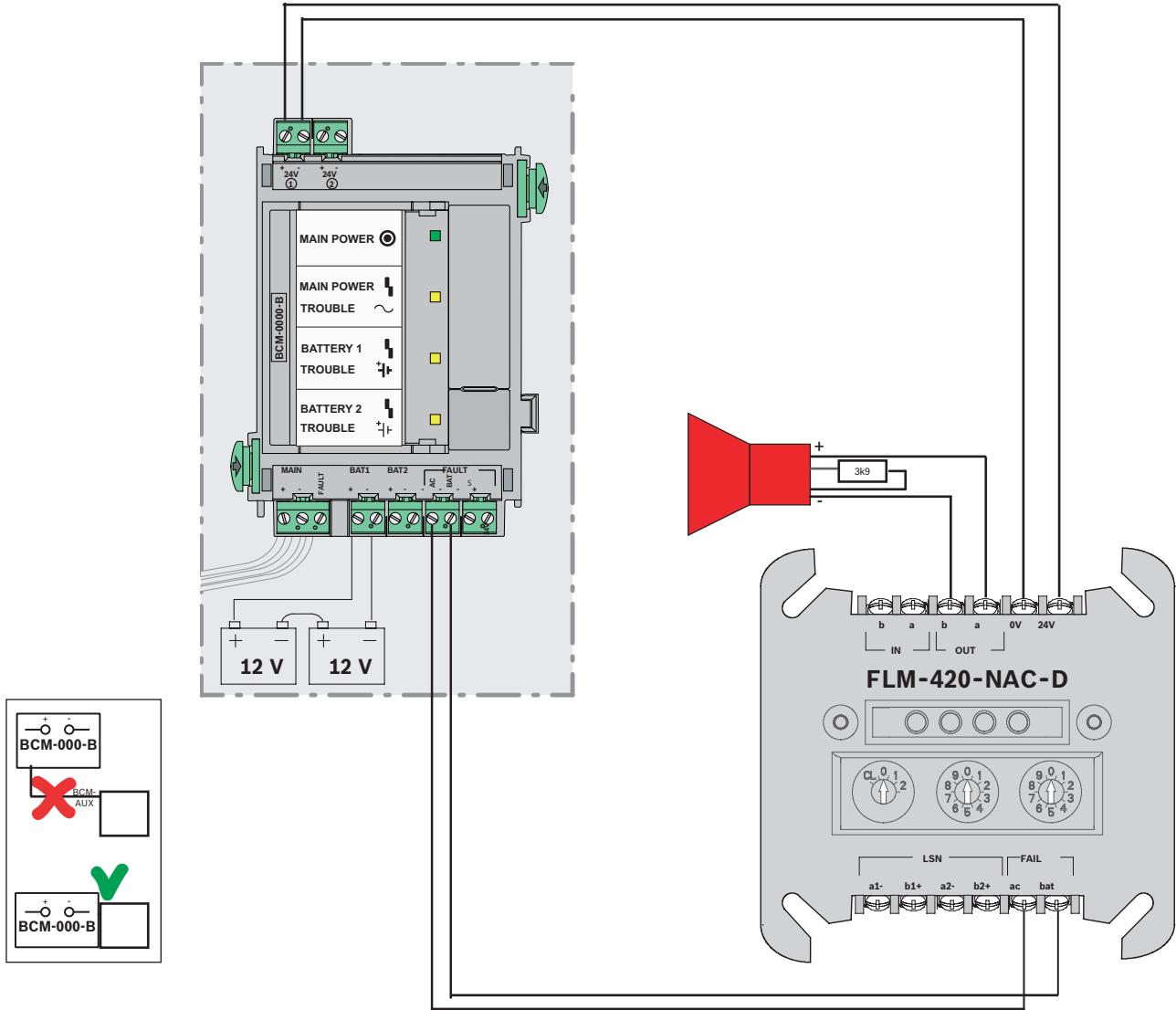
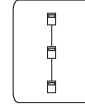


VdS 2489





FLM-420-NAC-D

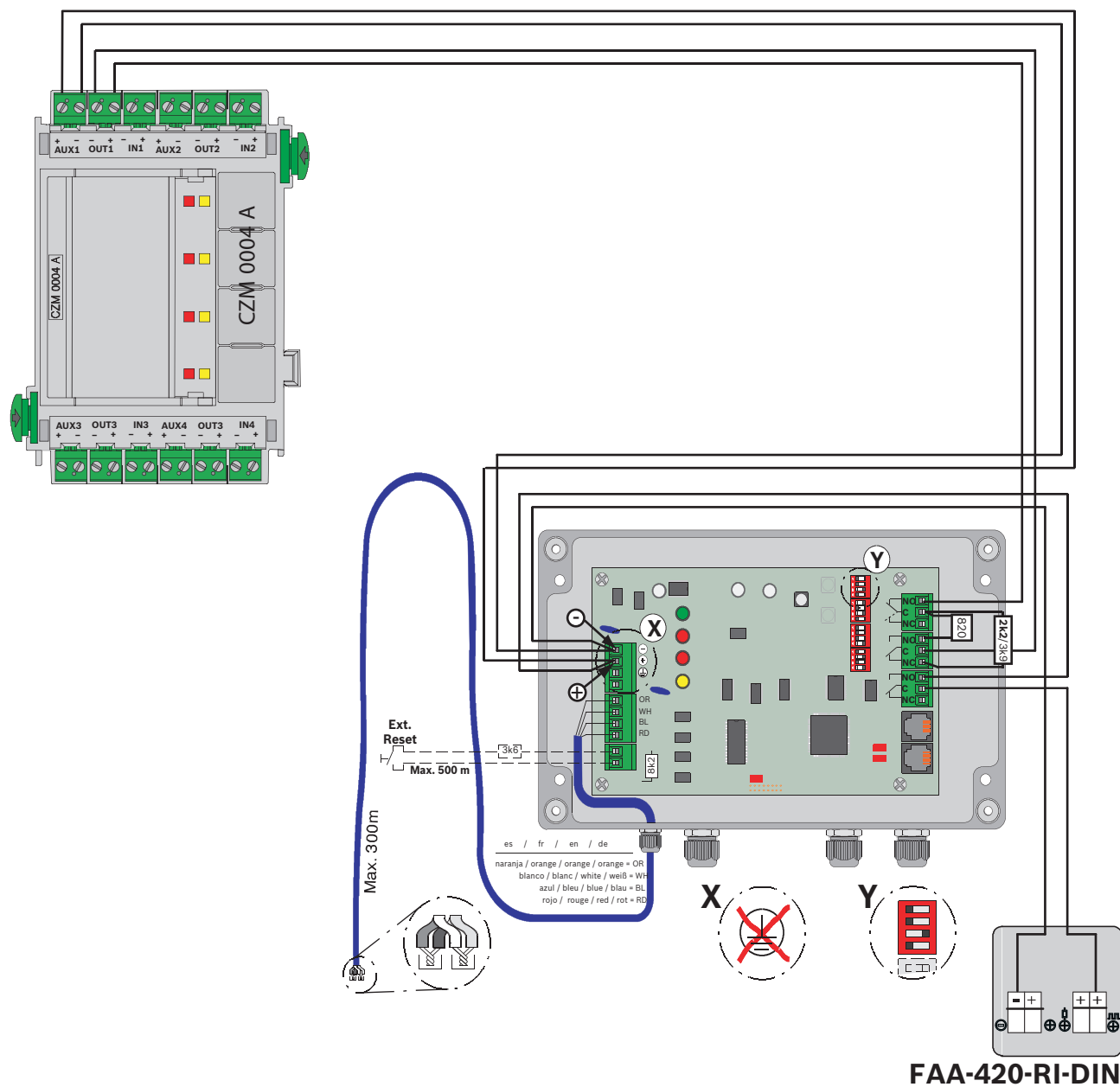


3.3.2

CZM 0004 A

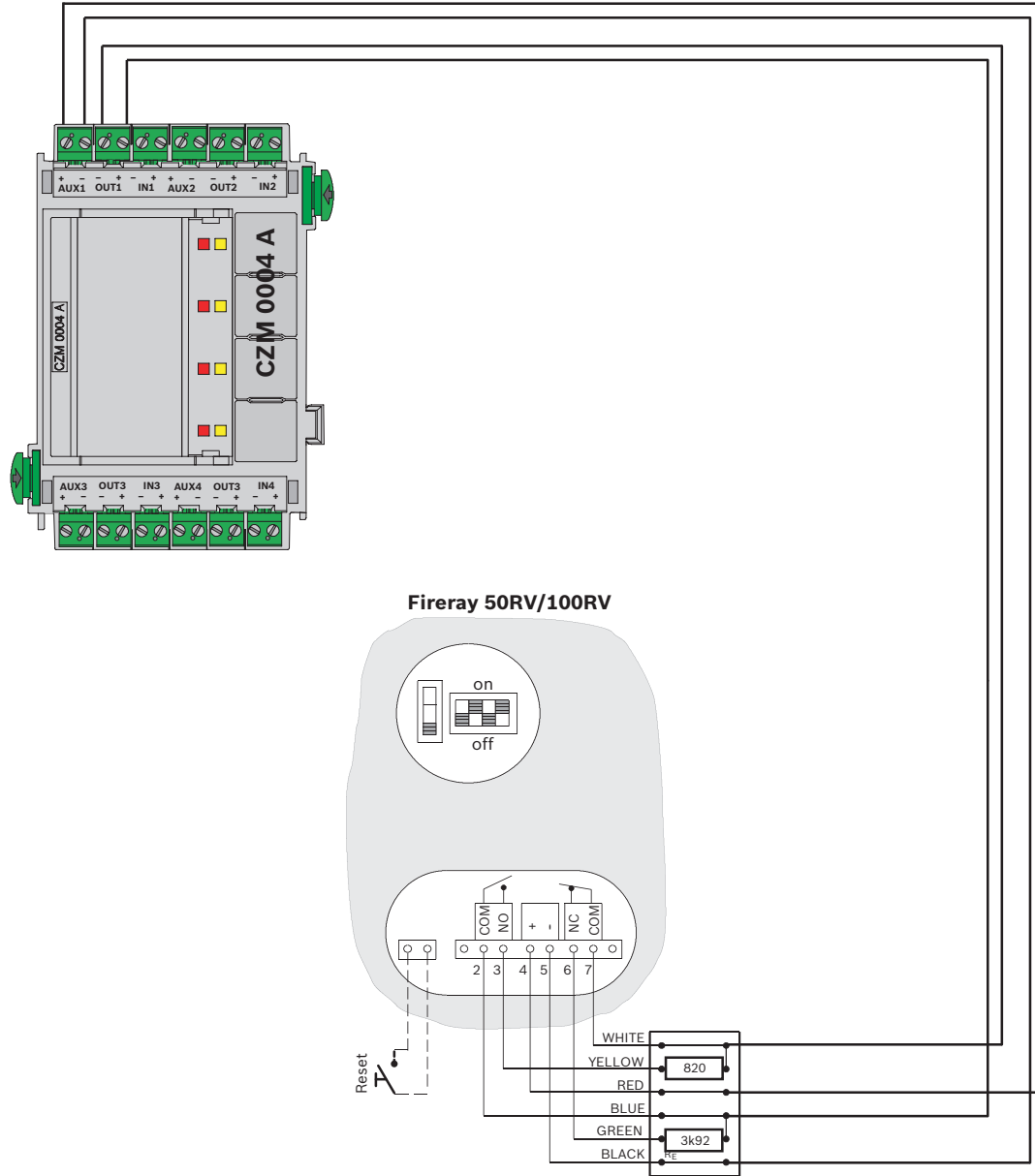


FCS-LWM-1



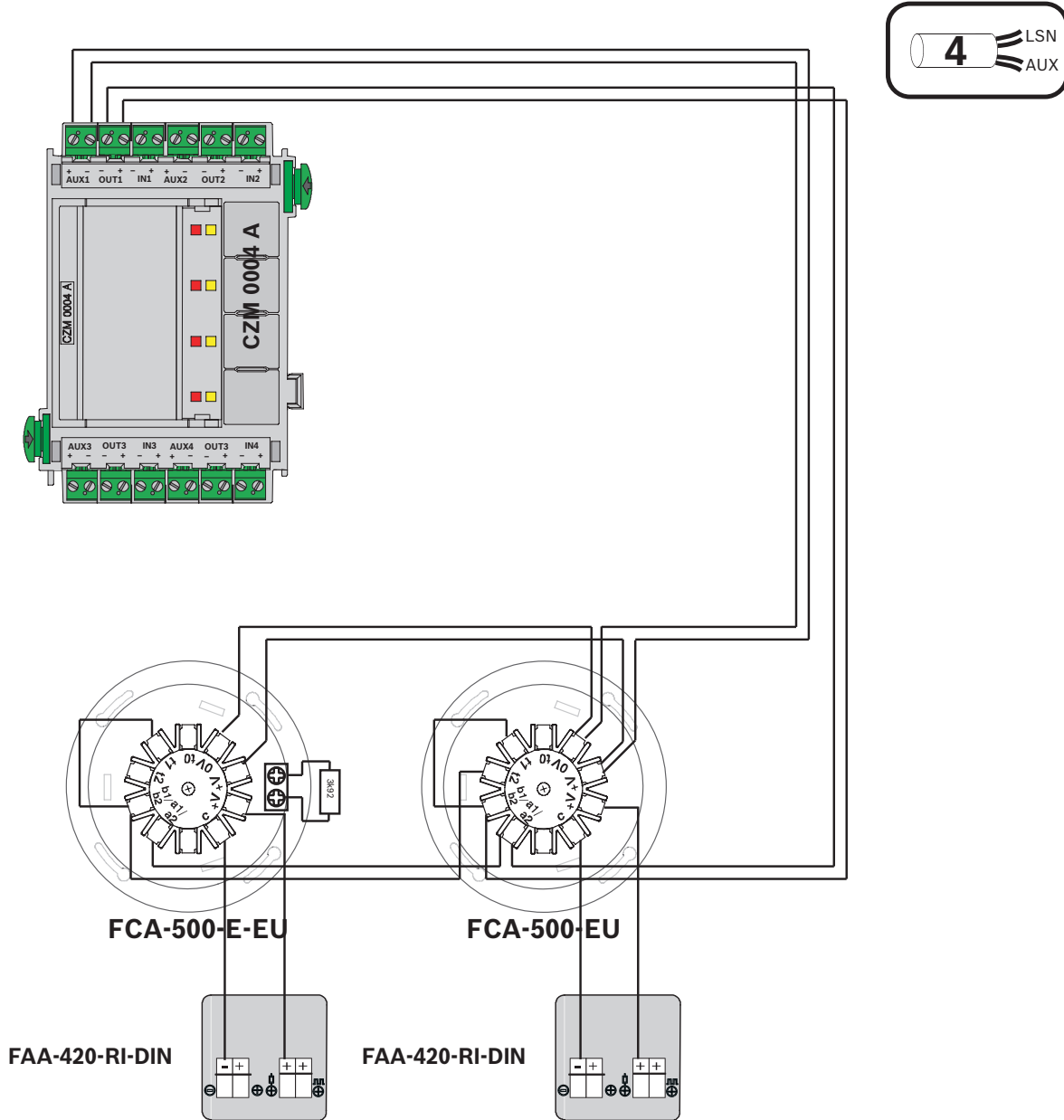
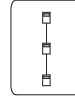


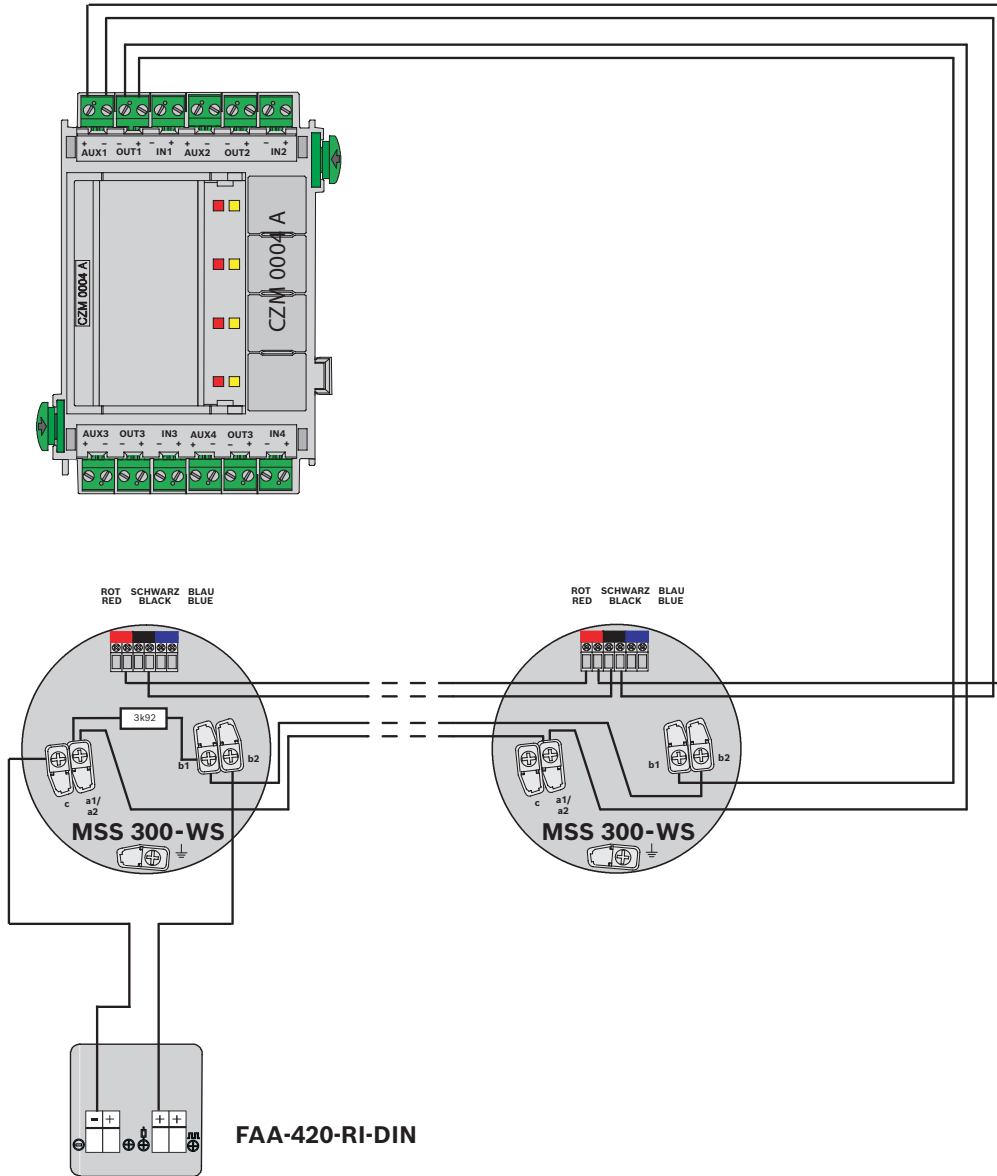
Fireray 50RV
Fireray 100RV





FCP-500



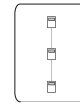
**MSS 300-WS**

3.3.3

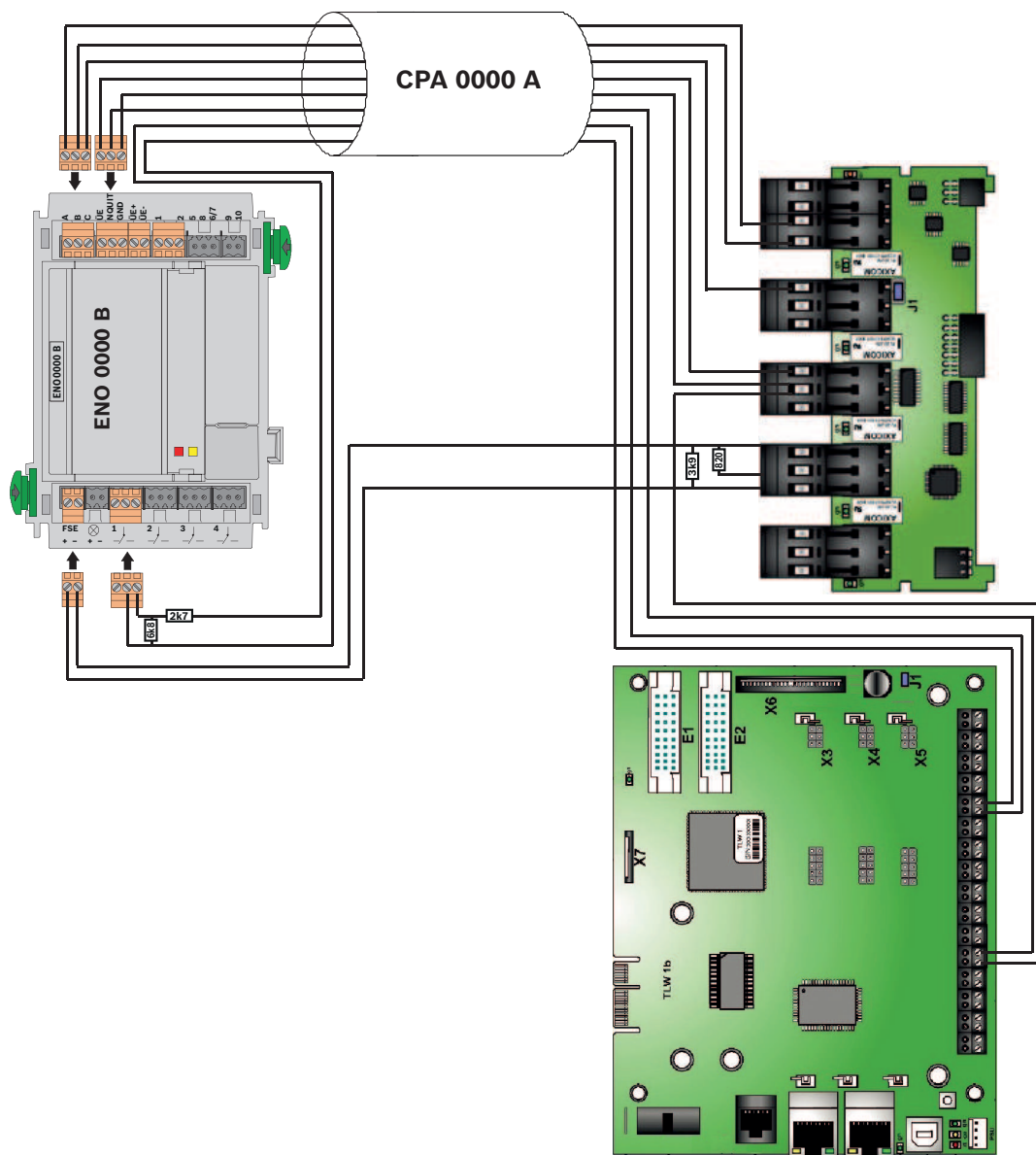
ENO 0000 A/B



AT5000 IP/GPRS

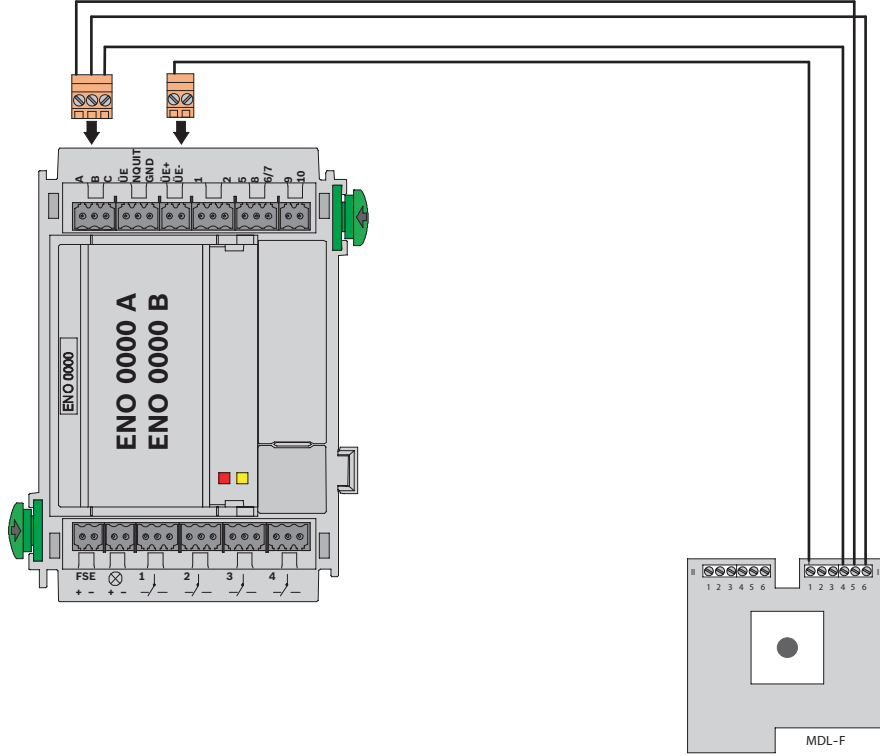


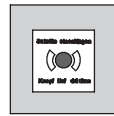
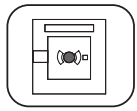
EN 54-2



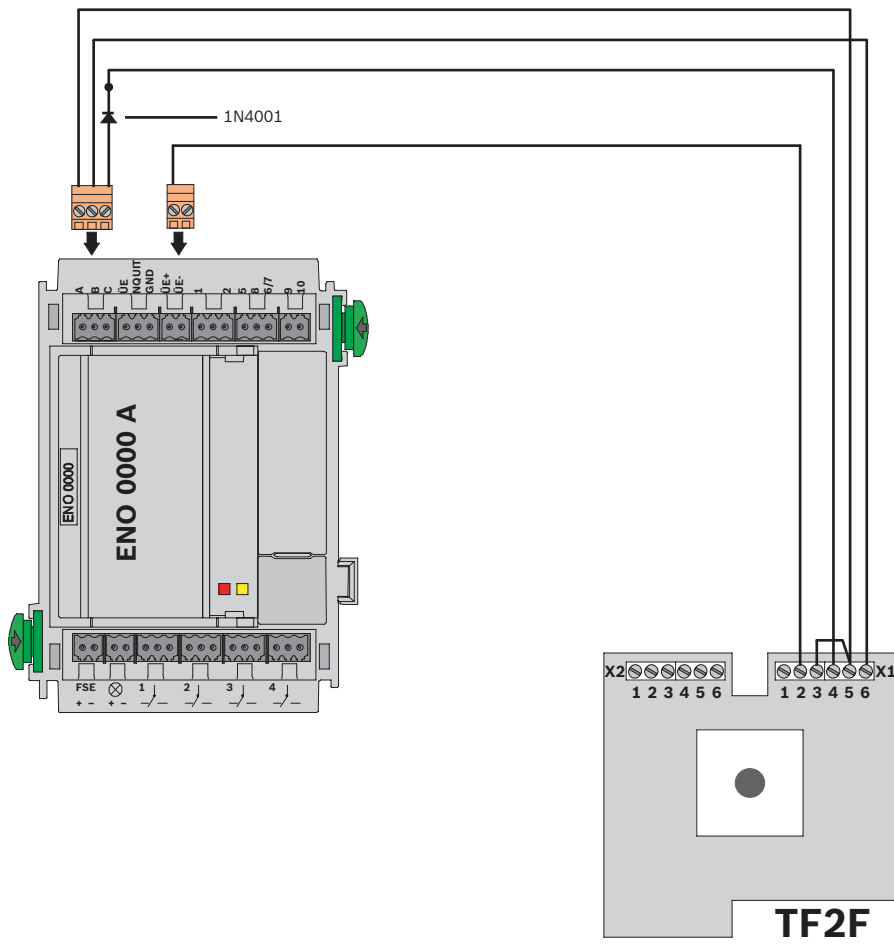
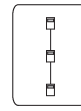


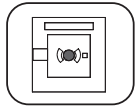
MDL-F



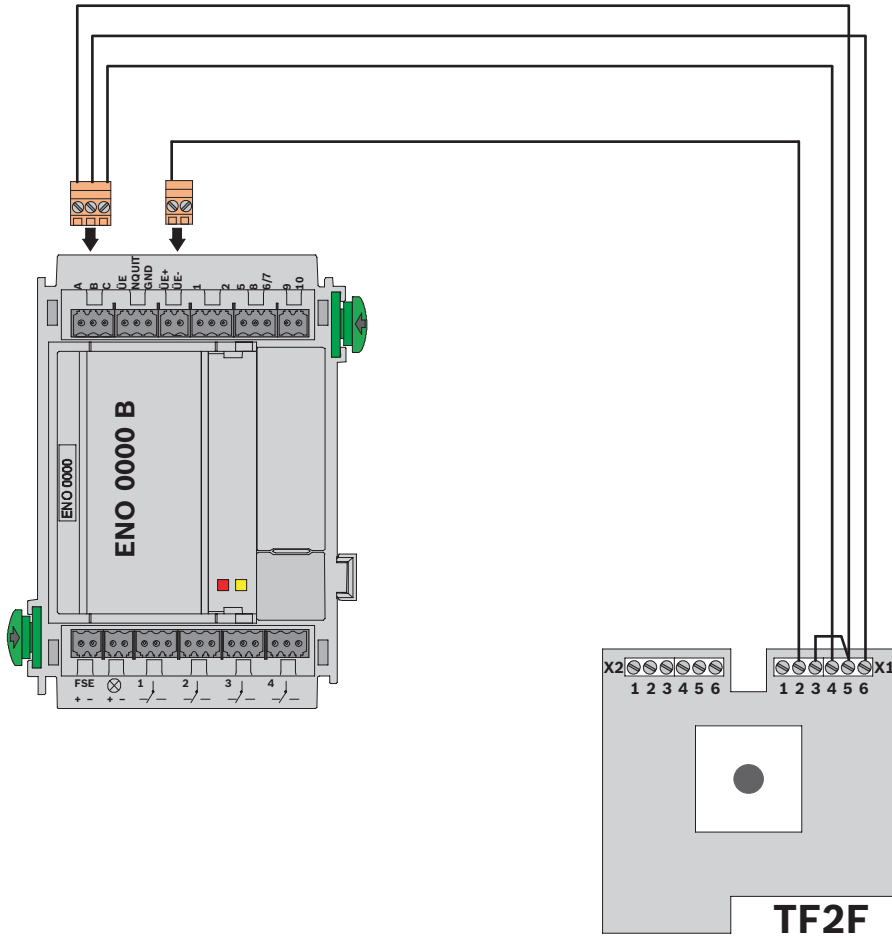
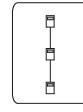


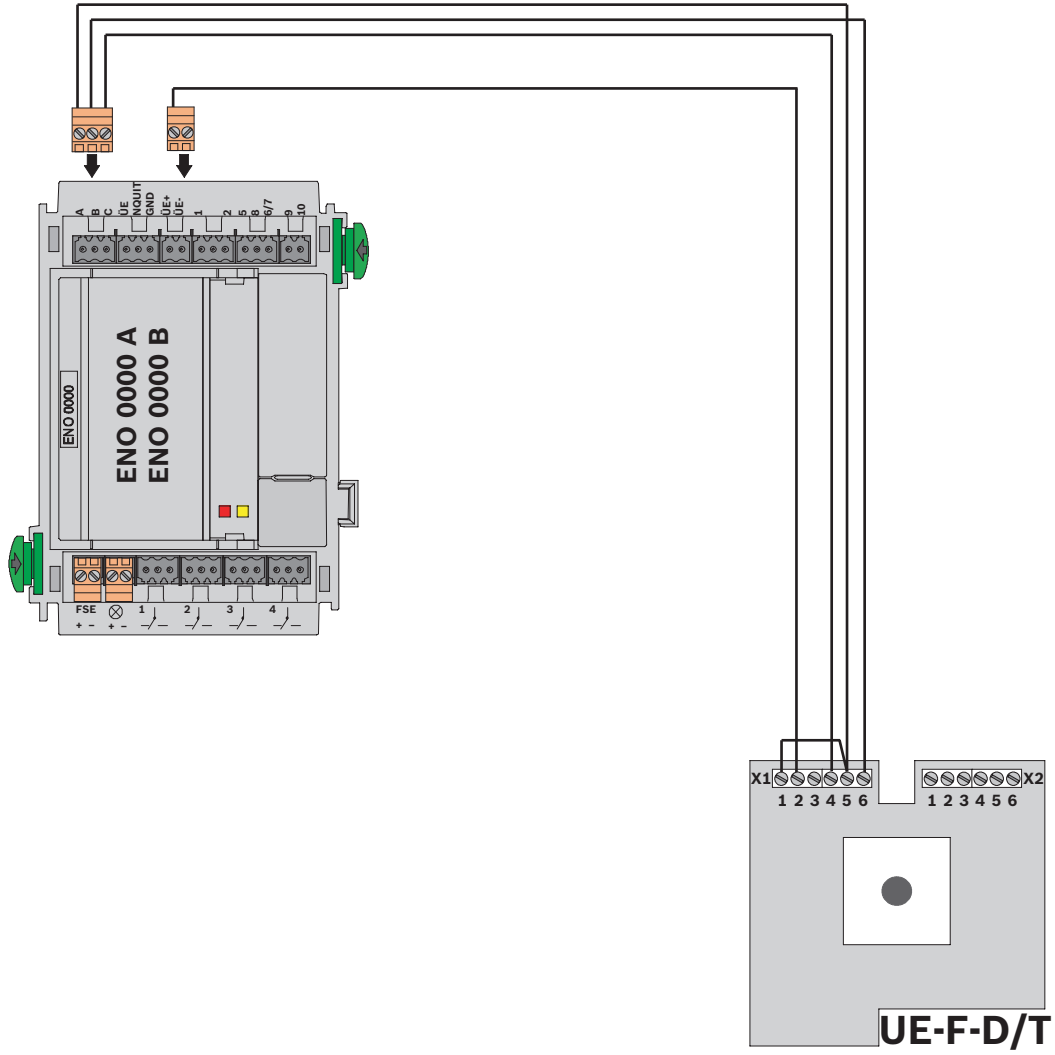
TF2F

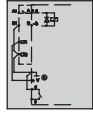
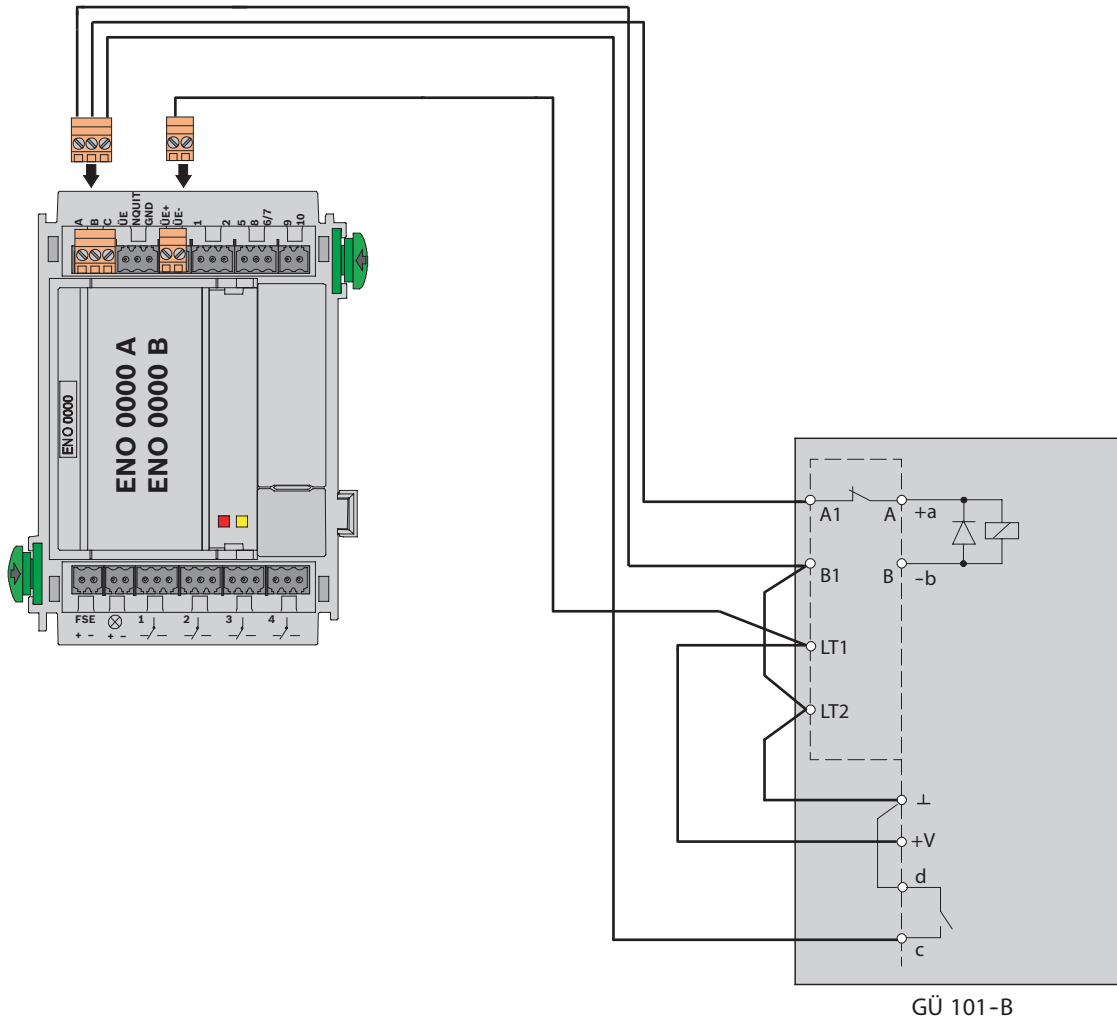
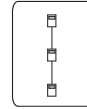


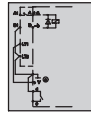


TF2F

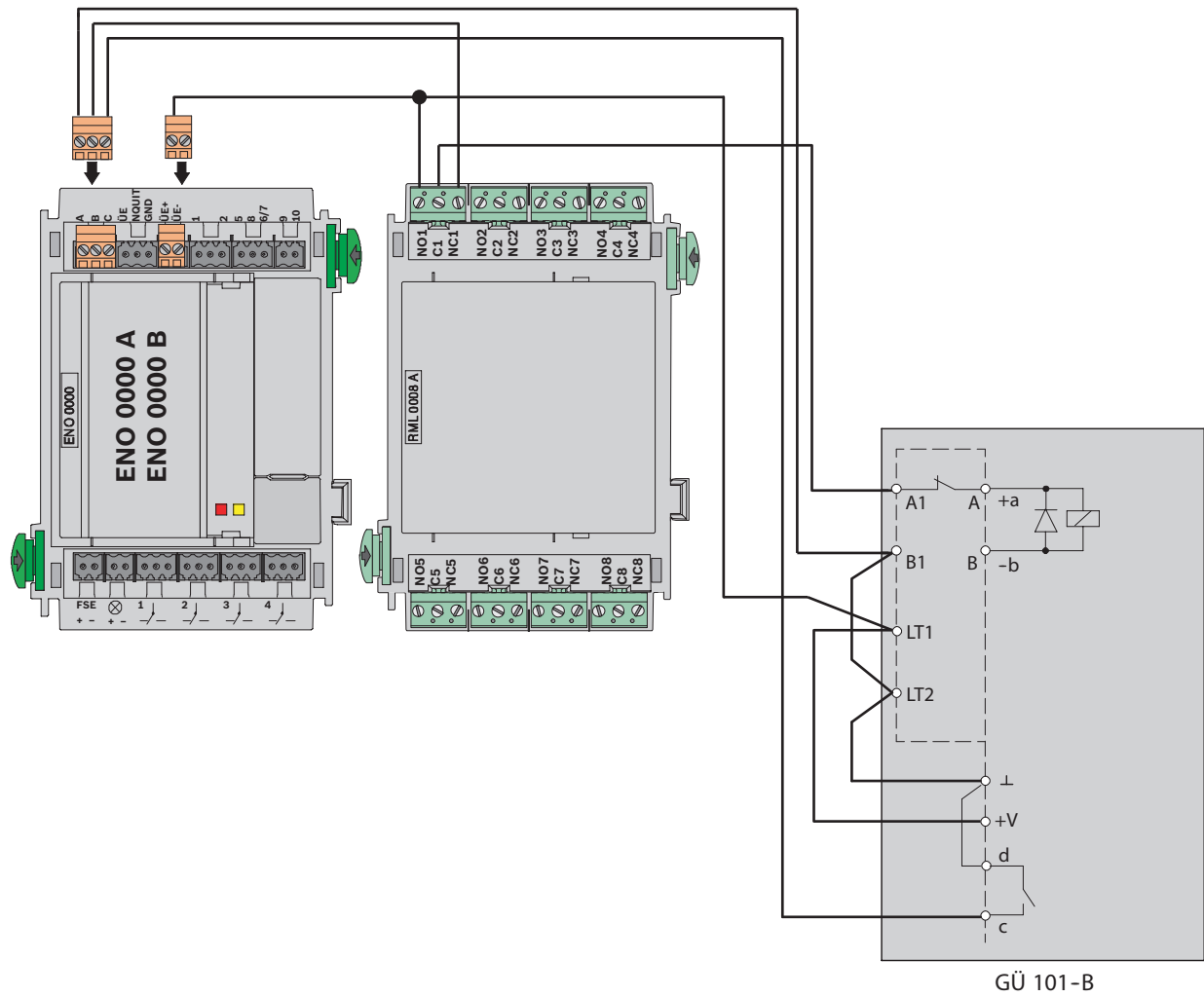
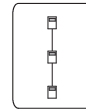


**UE-F-D/T**

**GÜ 101-B**

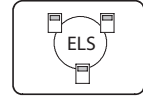
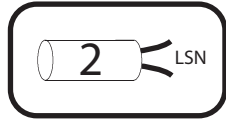


GÜ 101-B

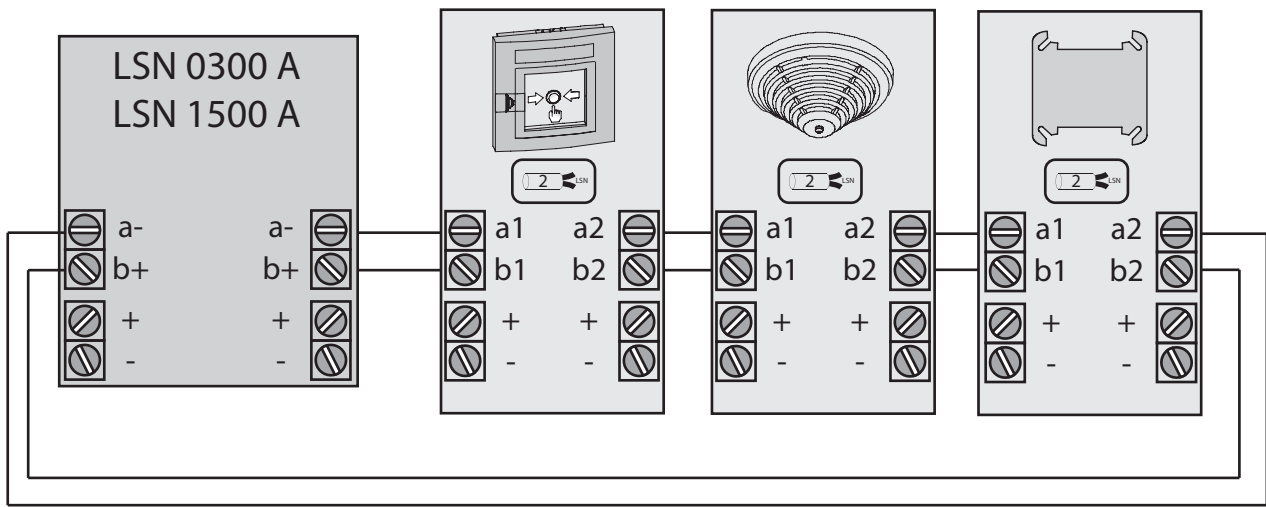


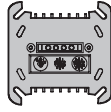
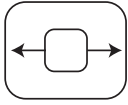
3.3.4

LSN 0300 A

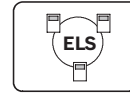


VdS 2489

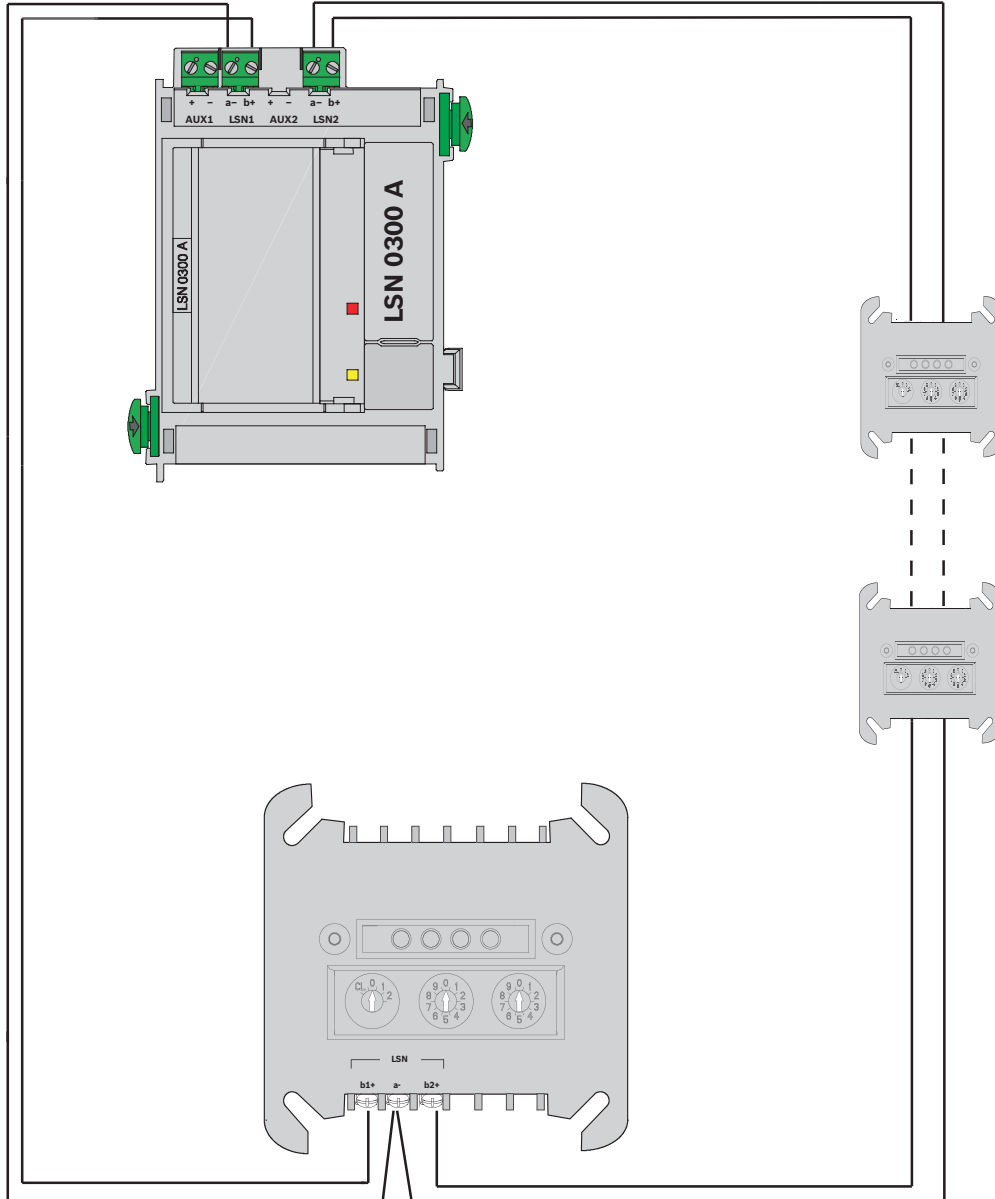


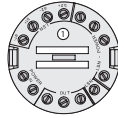
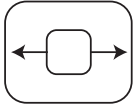


FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

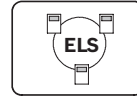


VdS 2489

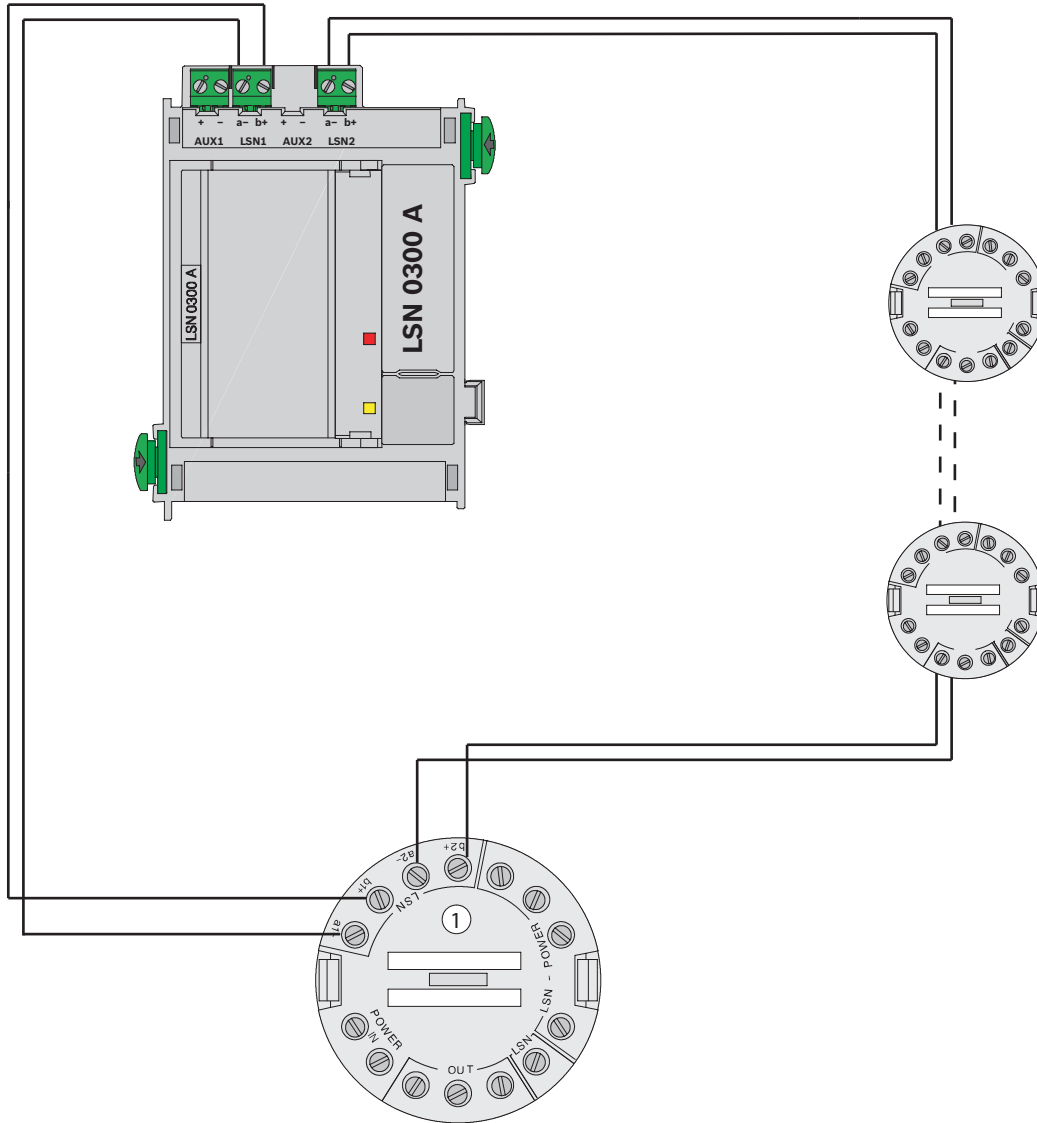


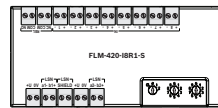
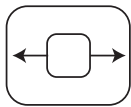


FLM-420-I2-E/W
FLM-420-RLV1-E

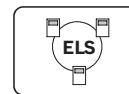


VdS 2489

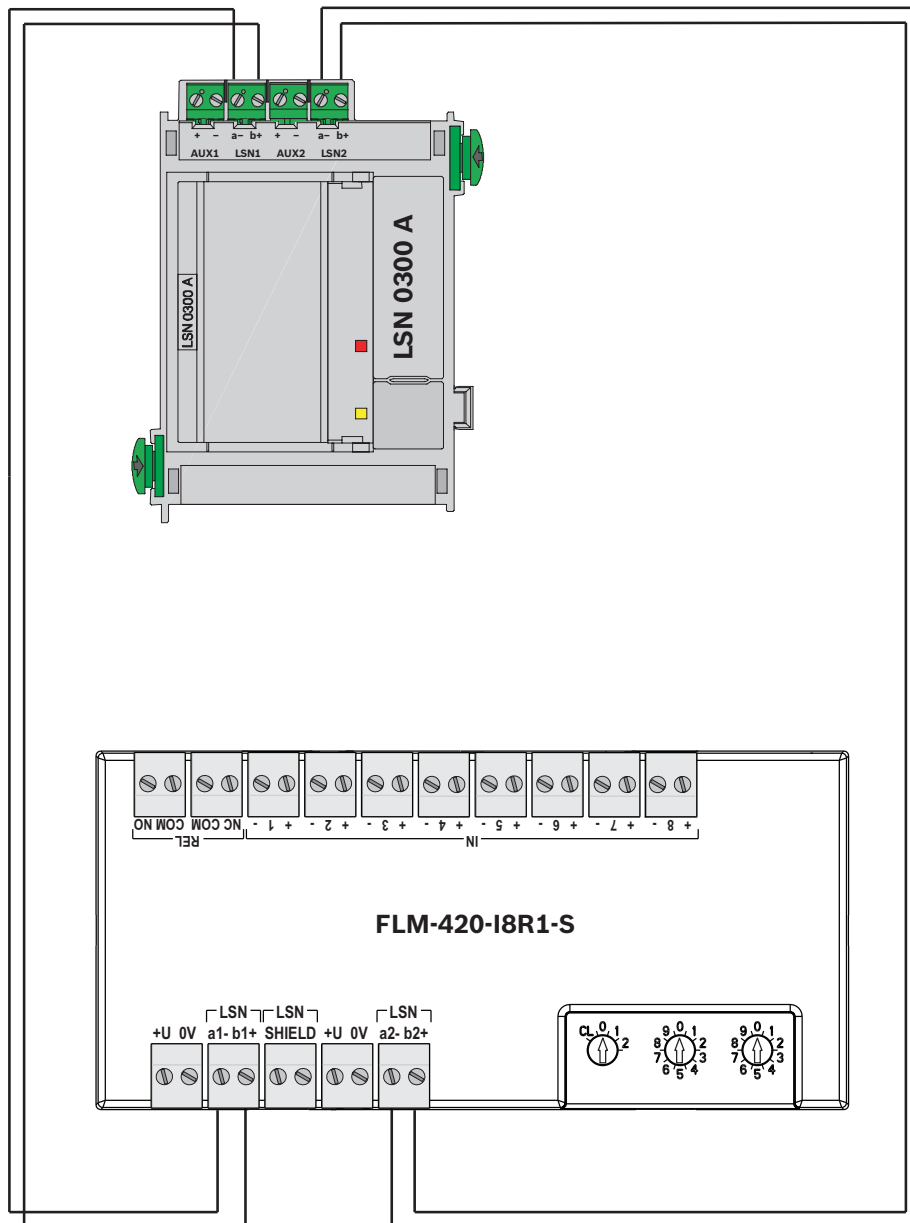


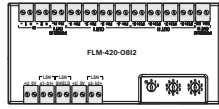
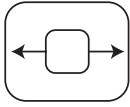


FLM-420-I8R1-S

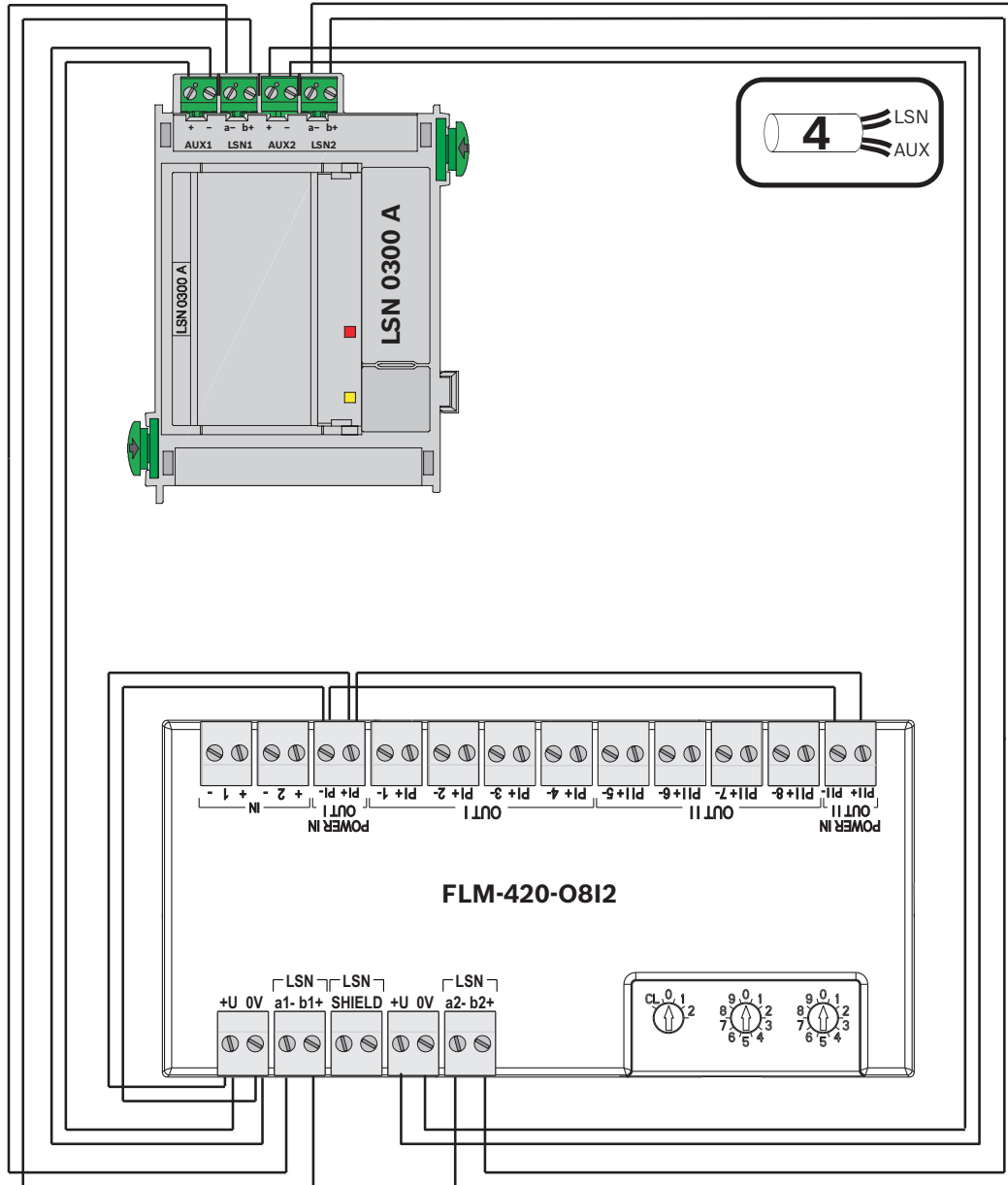
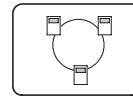


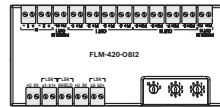
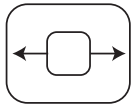
VdS 2489



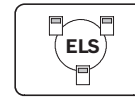


FLM-420-0812-S

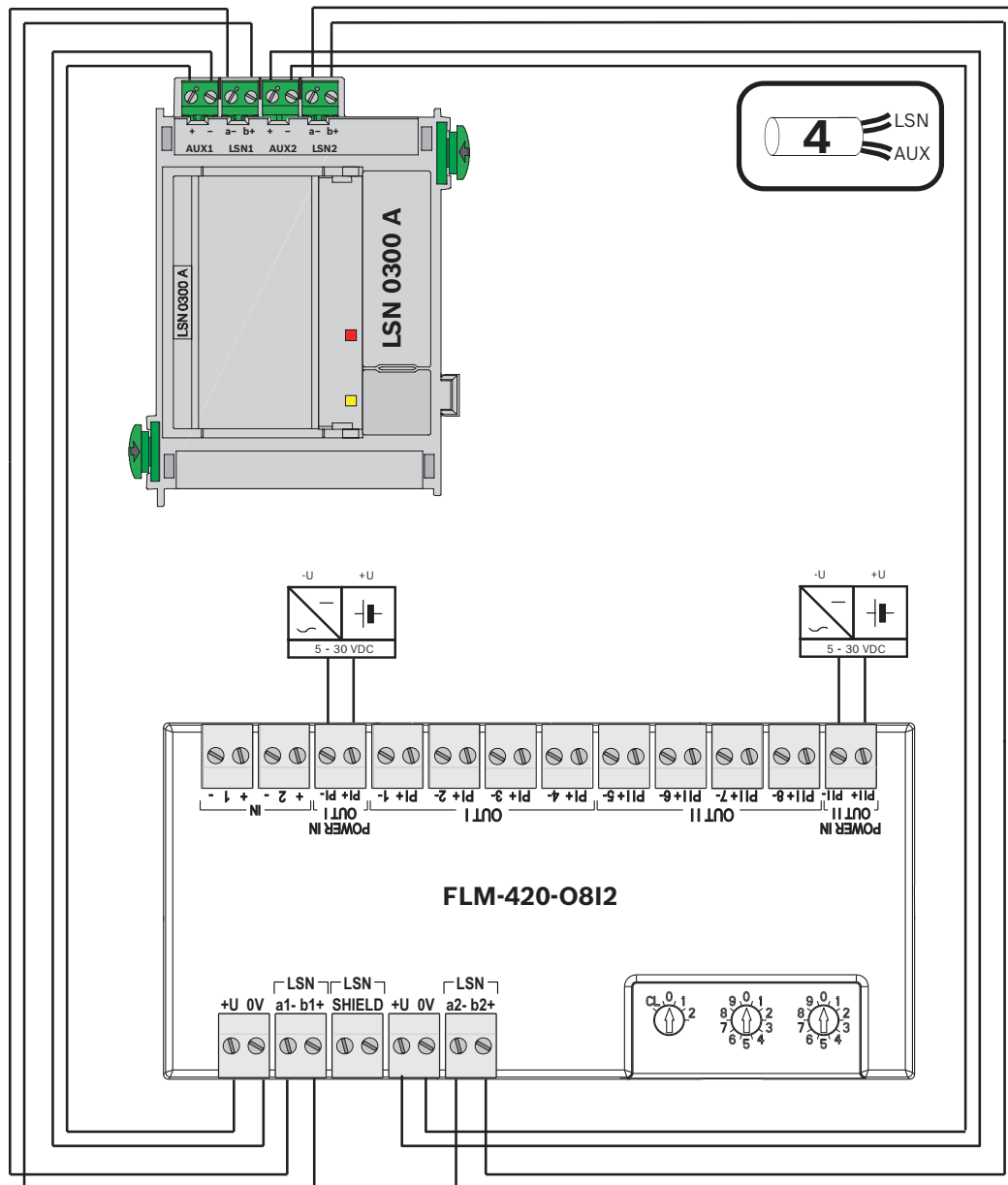


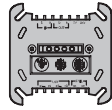
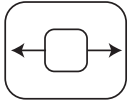


FLM-420-O8I2-S

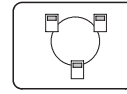


VdS 2489

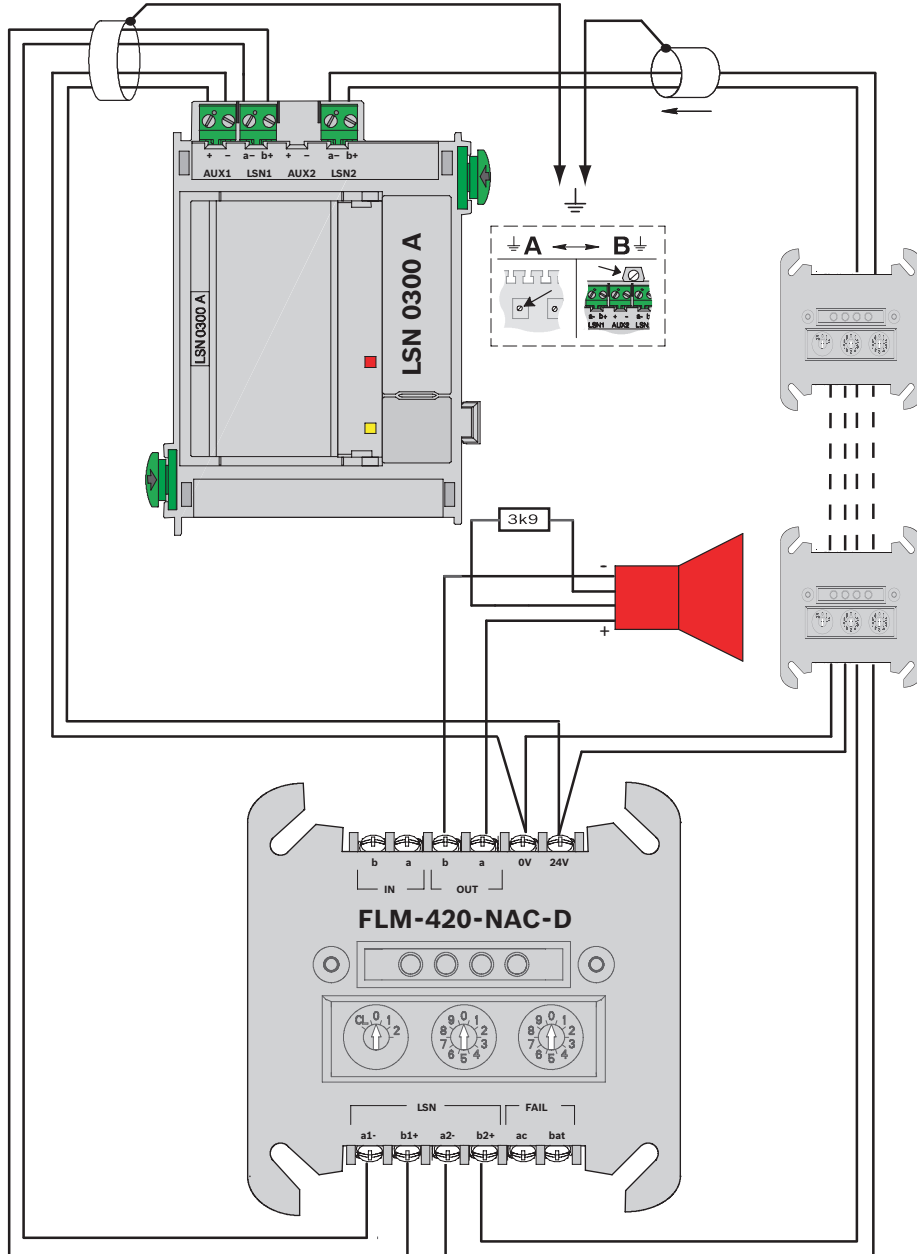


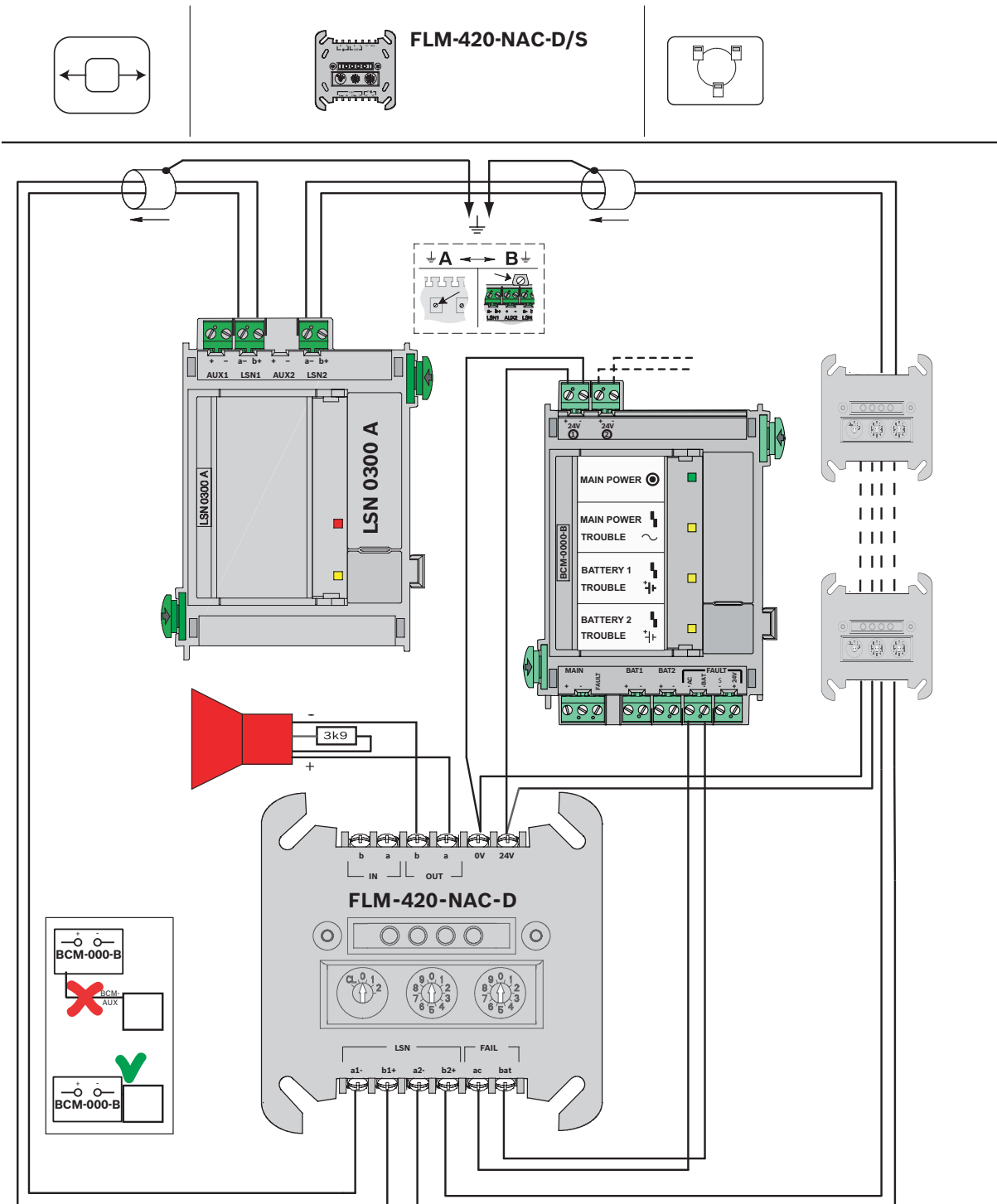


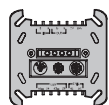
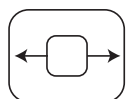
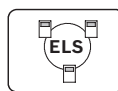
FLM-420-NAC-D/S



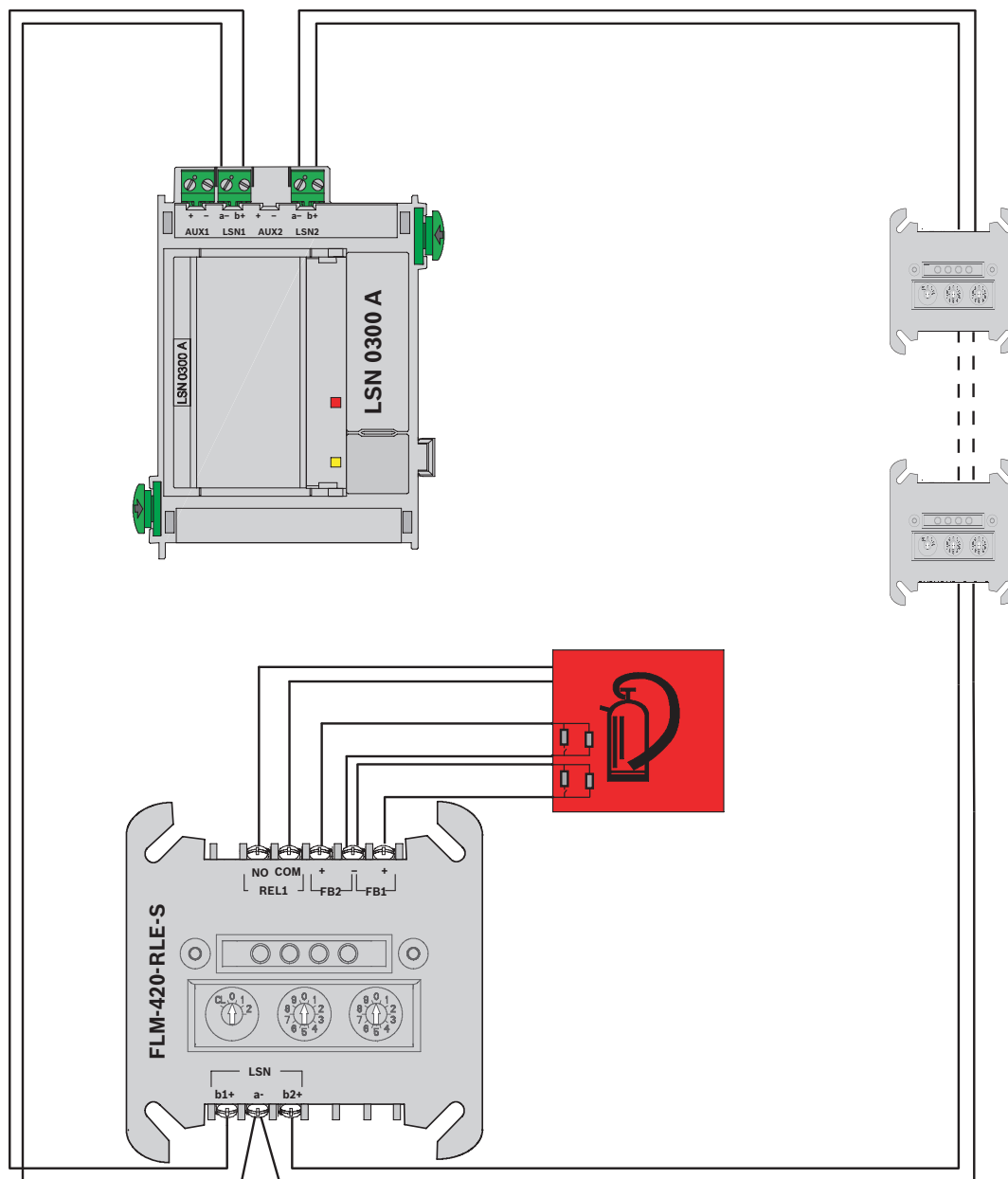
EN 54-2

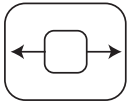




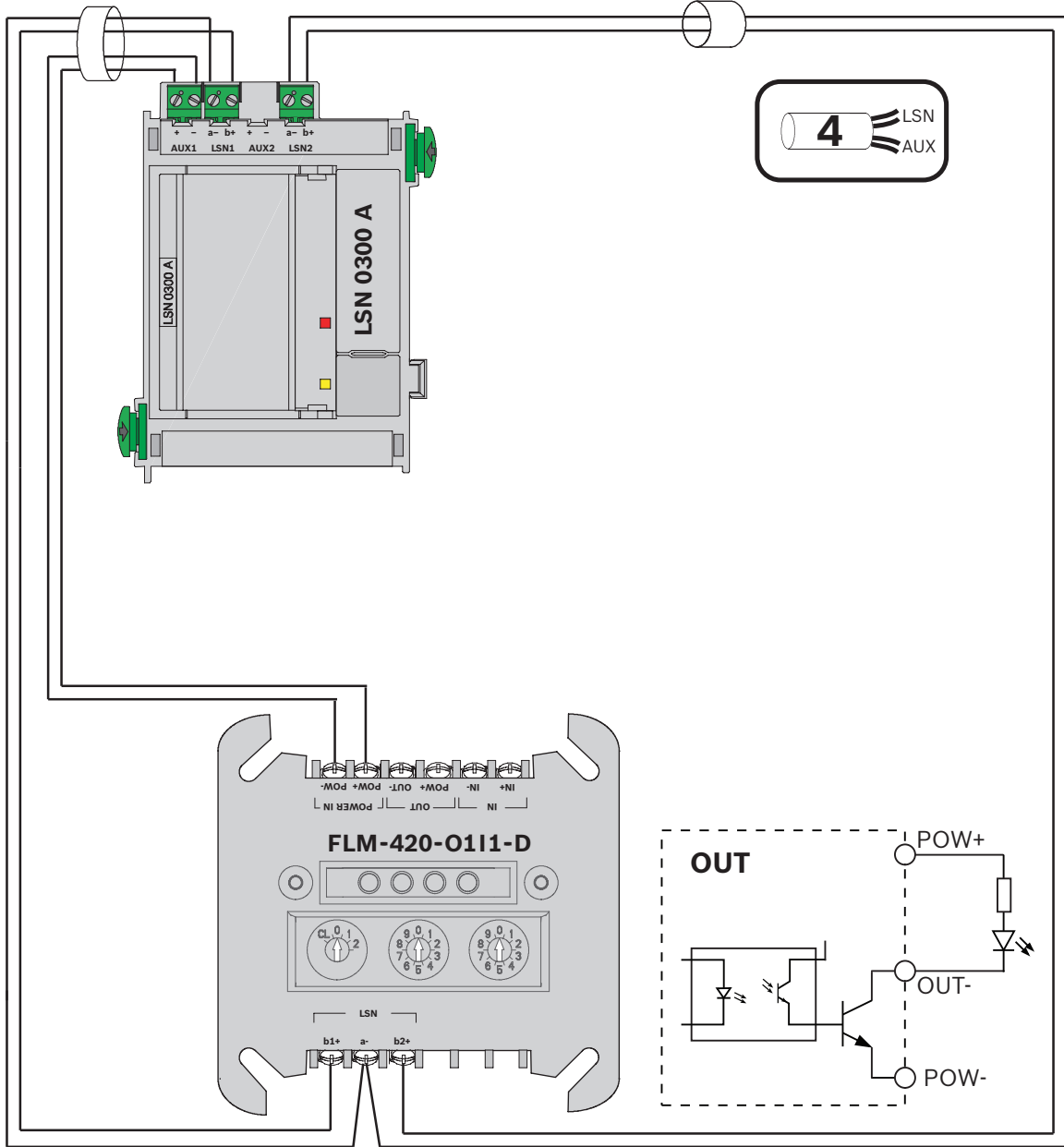
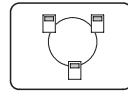
**FLM-420-RLE-S**

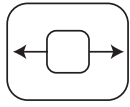
VdS 2489



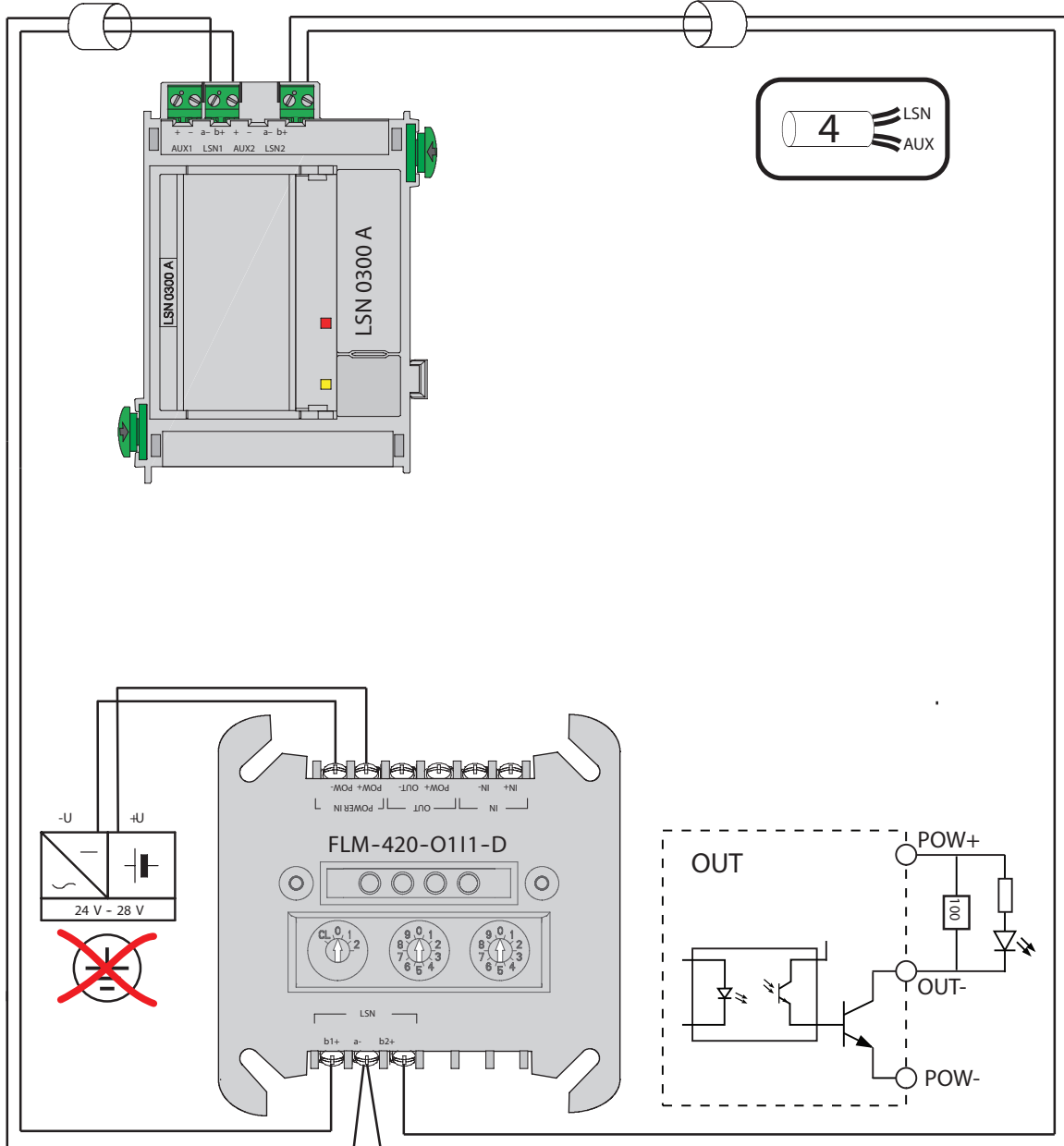
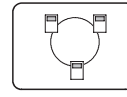


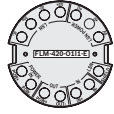
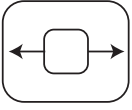
FLM-420-O111-D



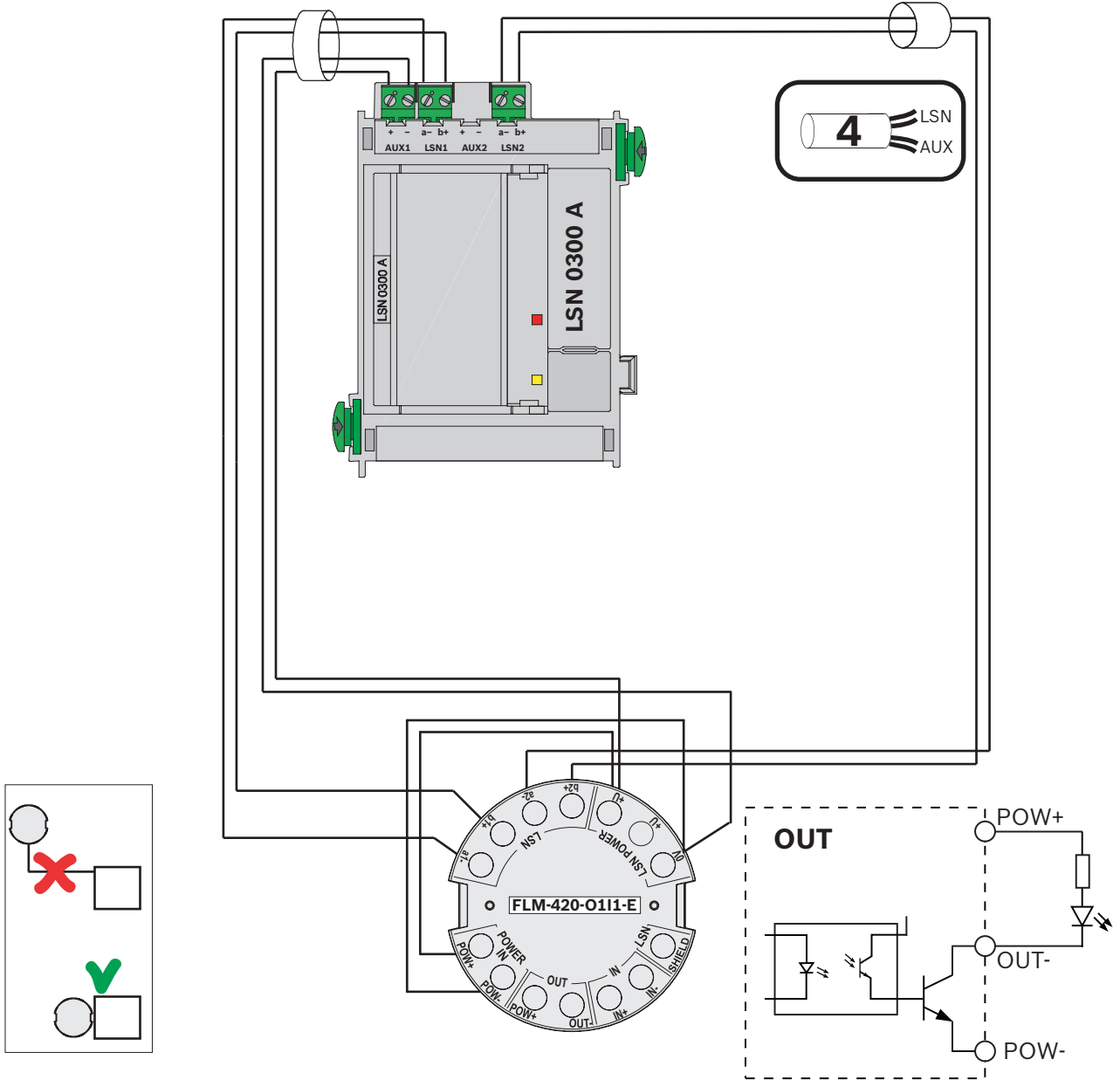
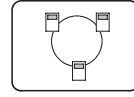


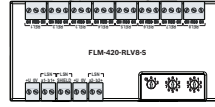
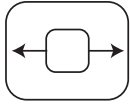
FLM-420-O111-D



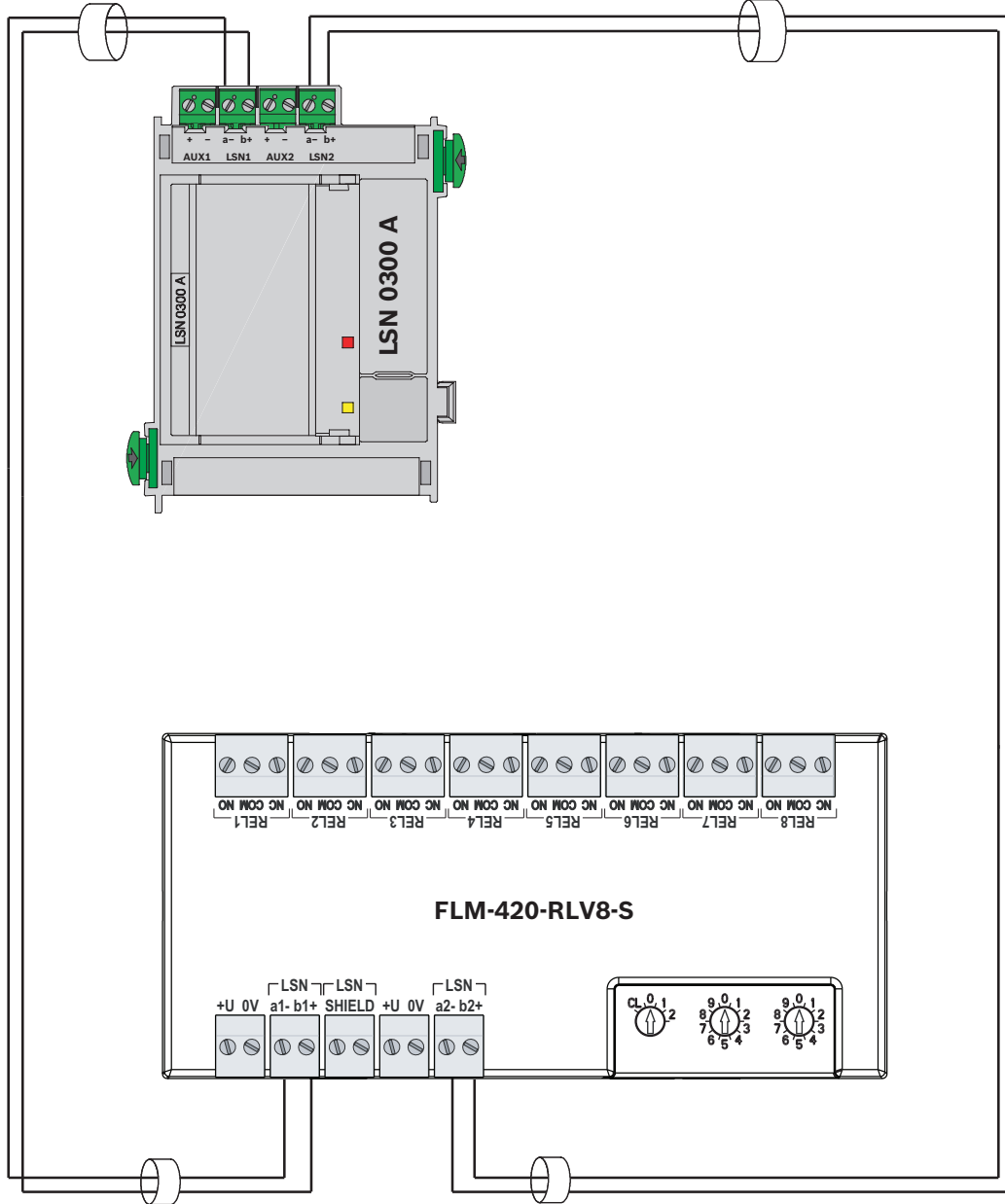
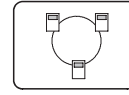


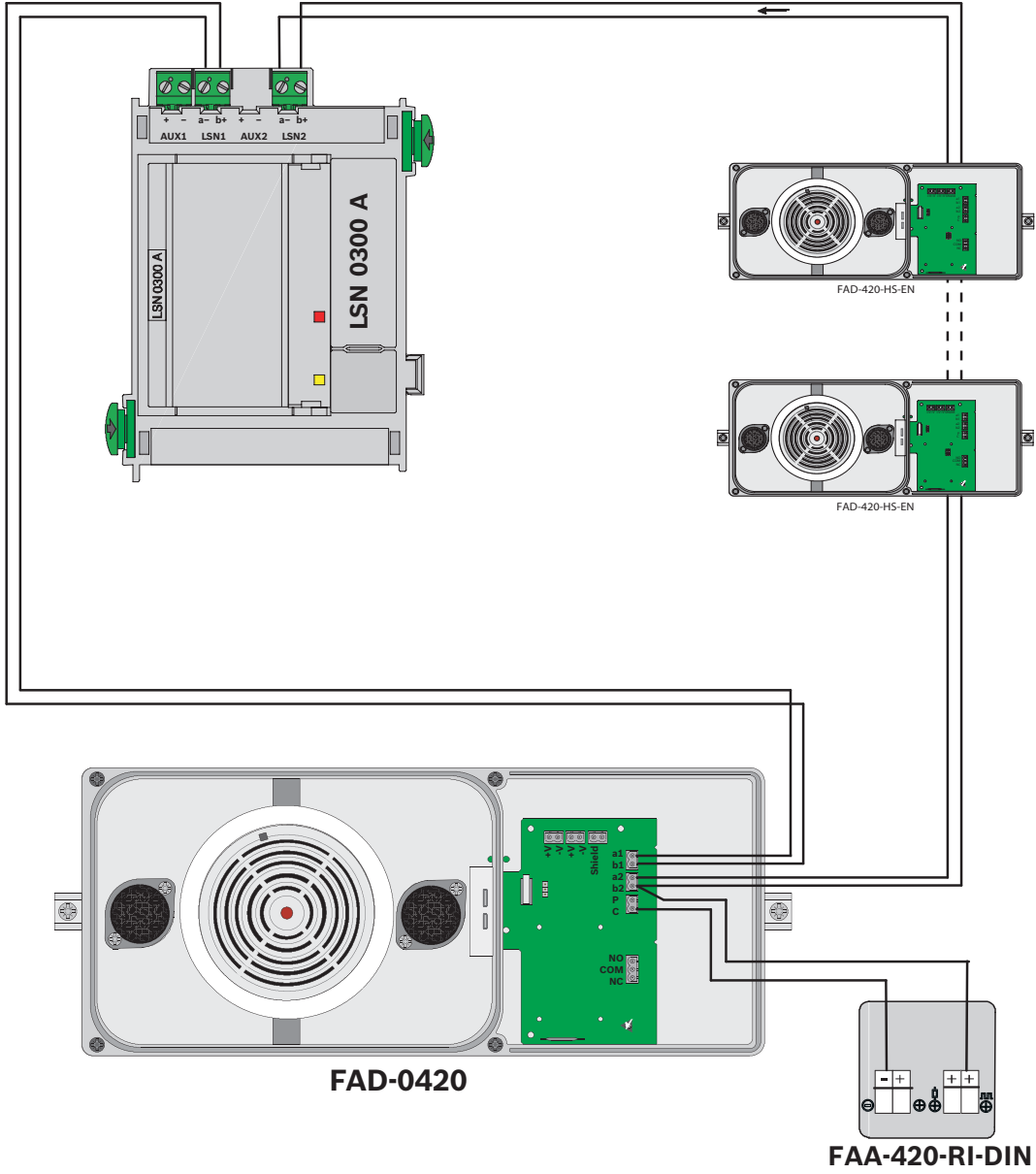
FLM-420-01I1-E

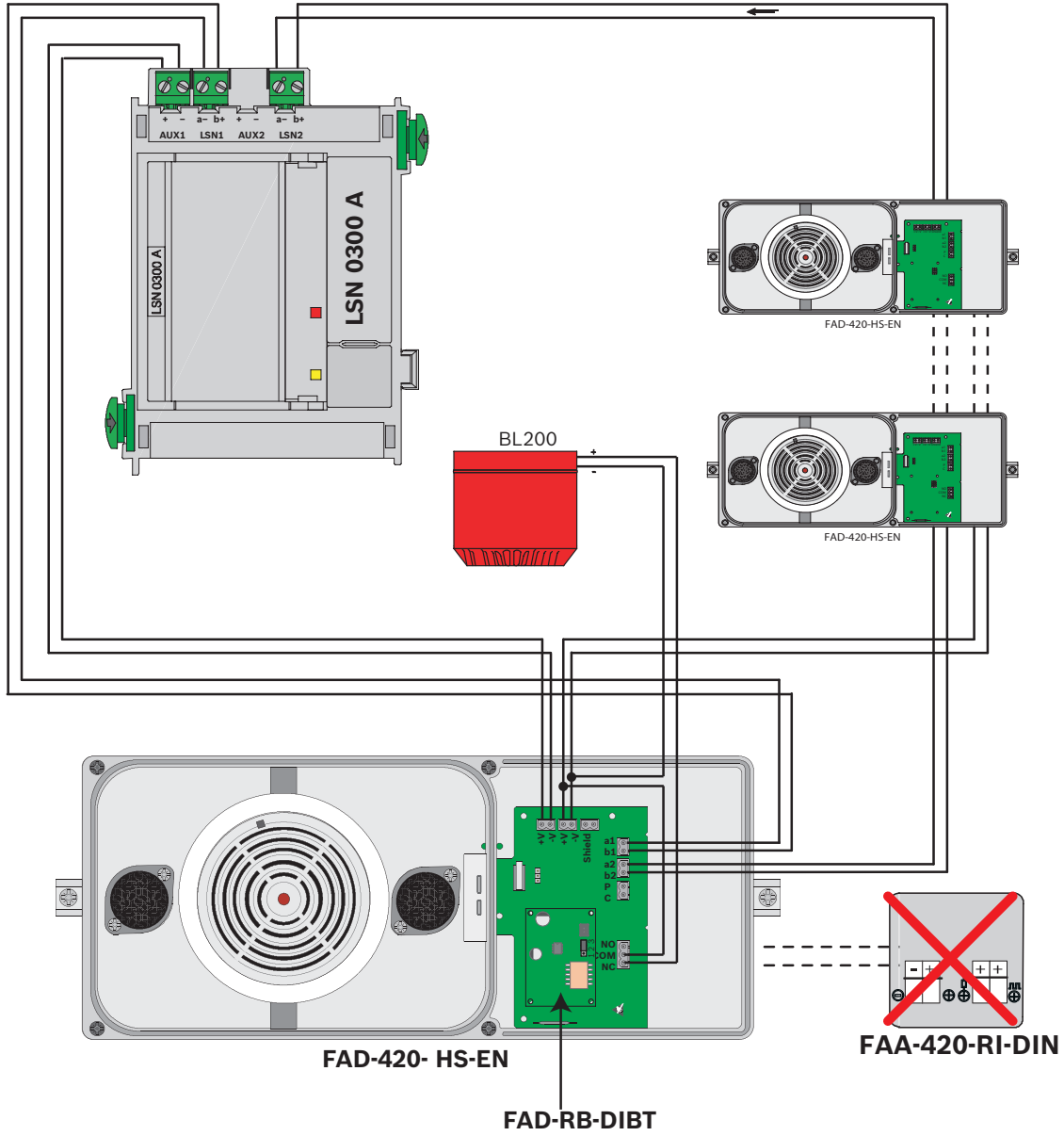


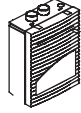
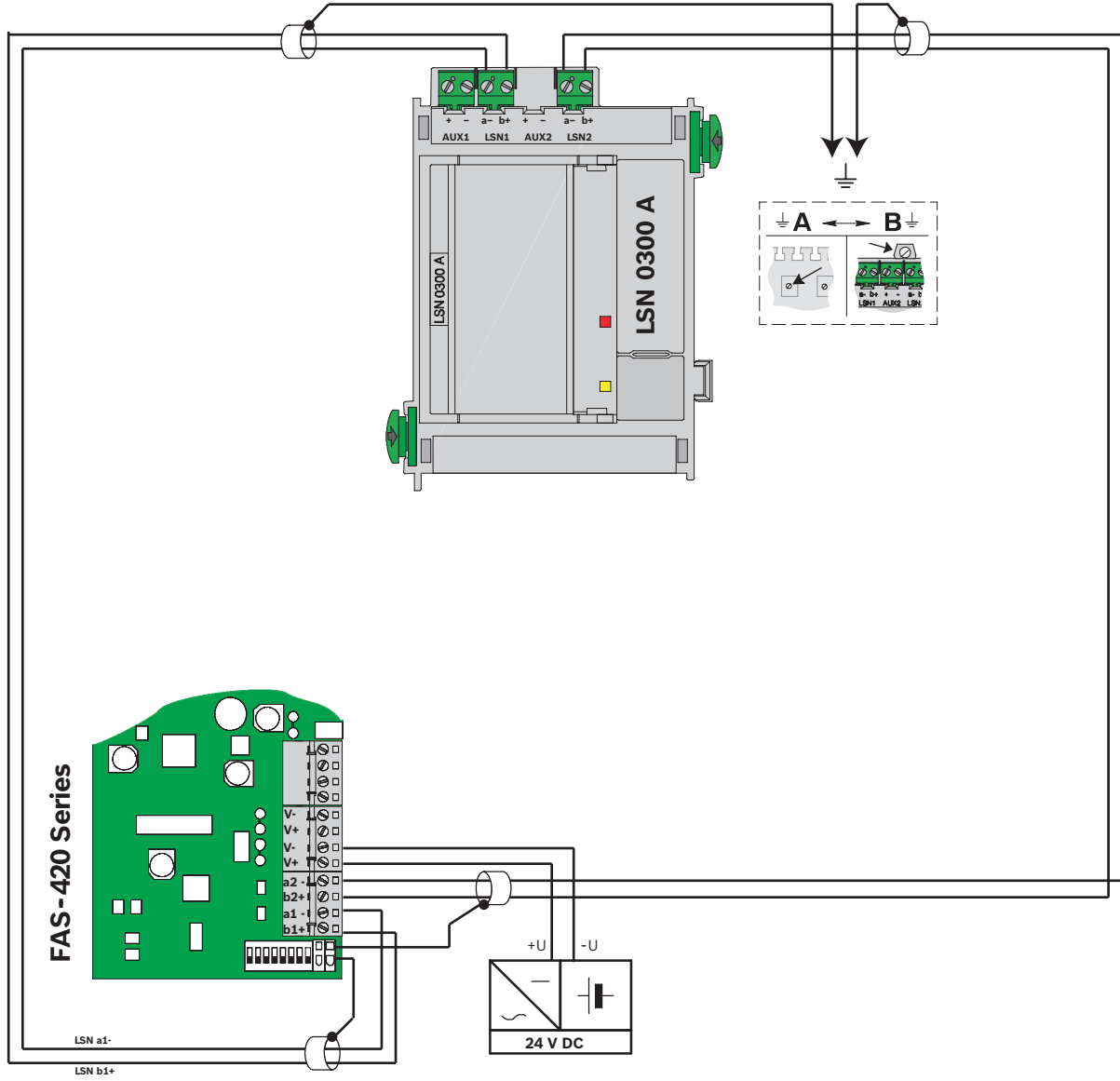


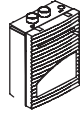
FLM-420-RLV8-S



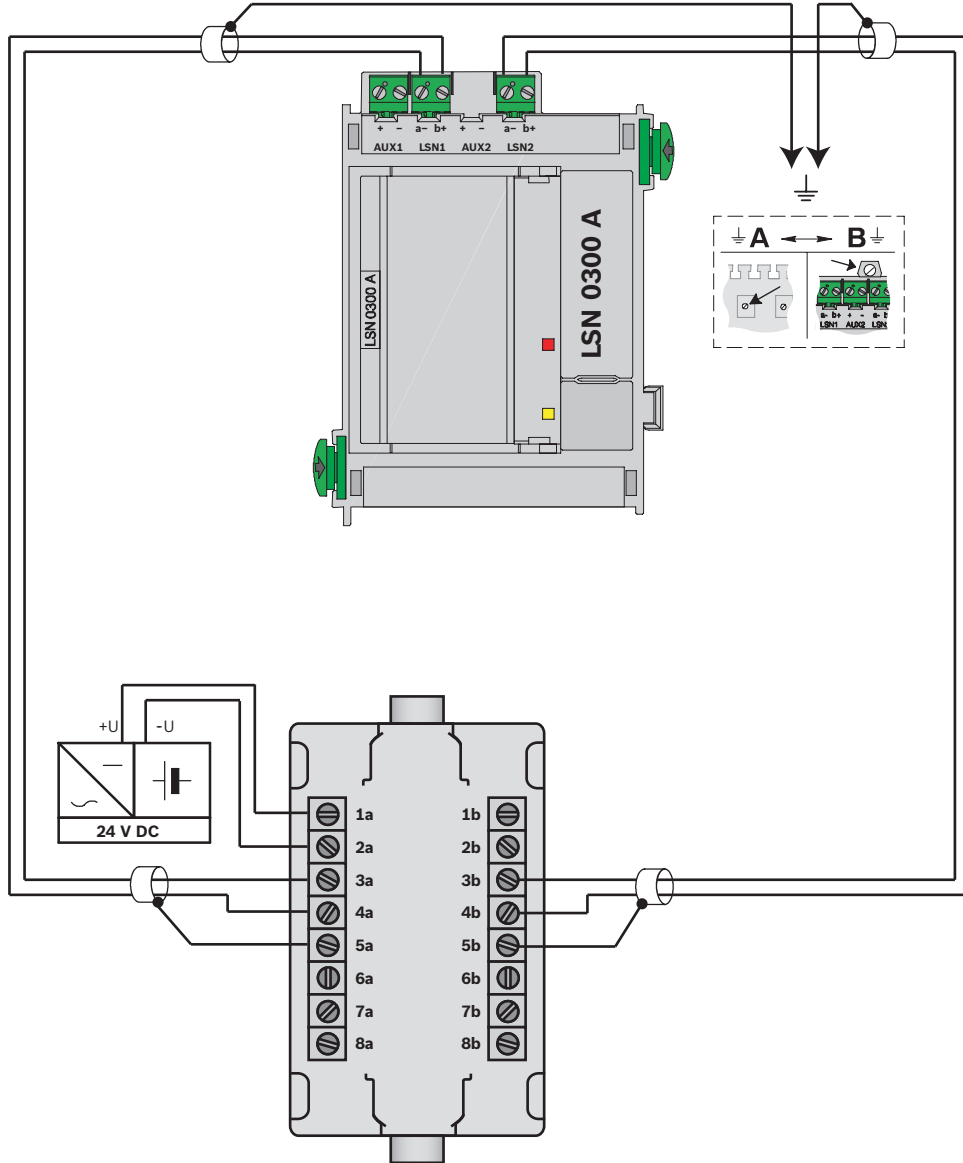
**FAD-0420**

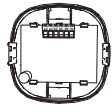
**FAD-420-HS-EN**

**FAS-420 Series**

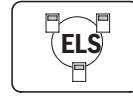


FAS-420-TM Series

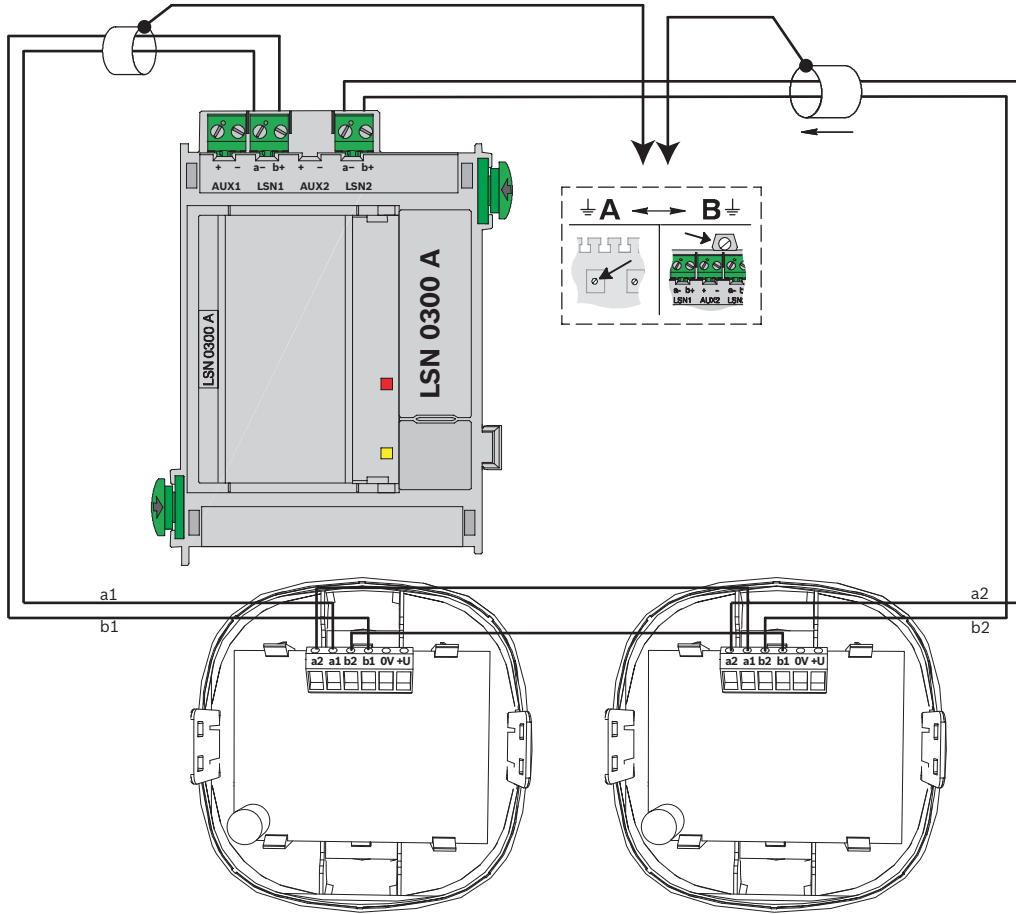




FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A



VdS 2489

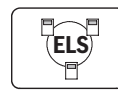


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

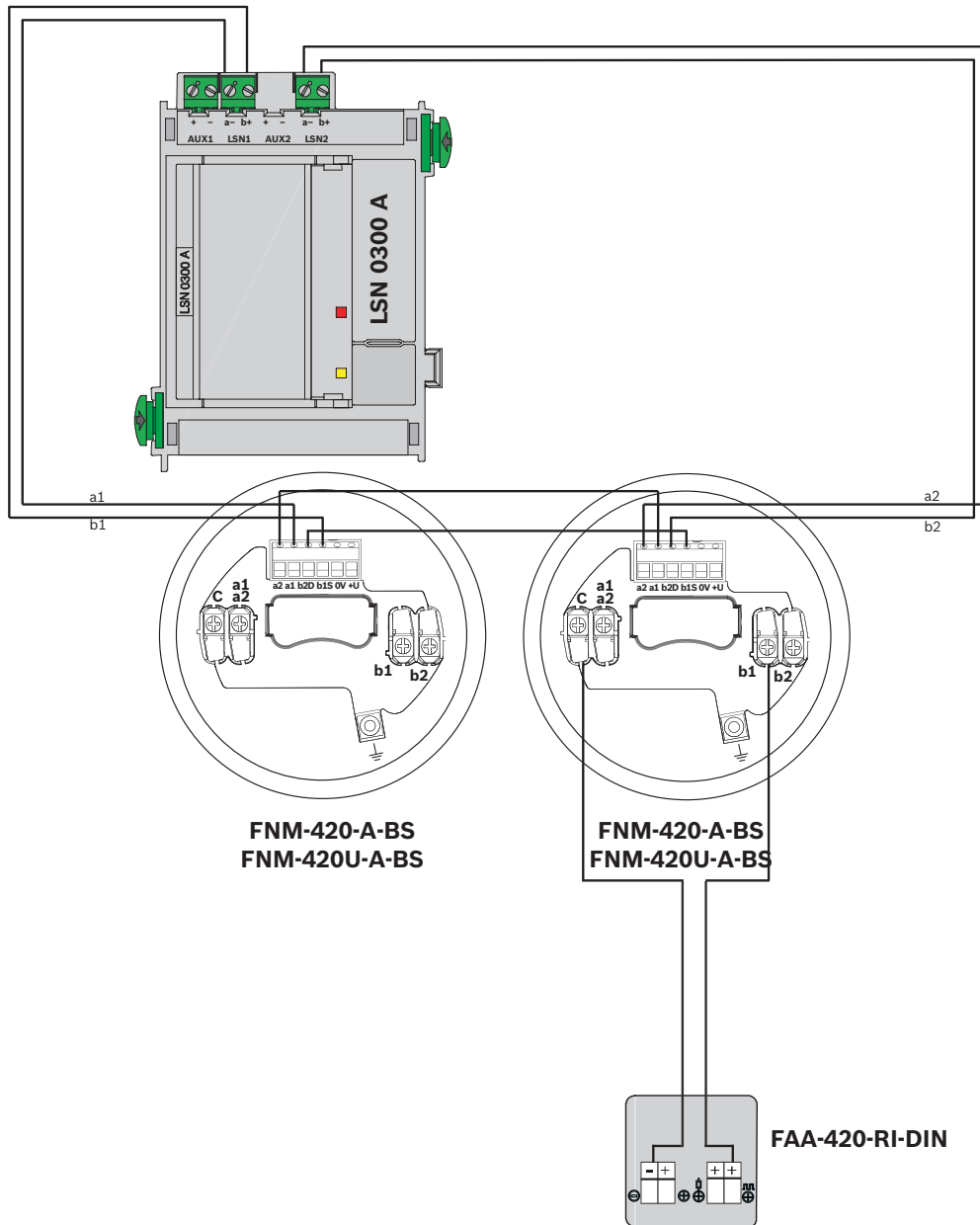
FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



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

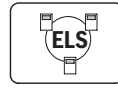


VdS 2489

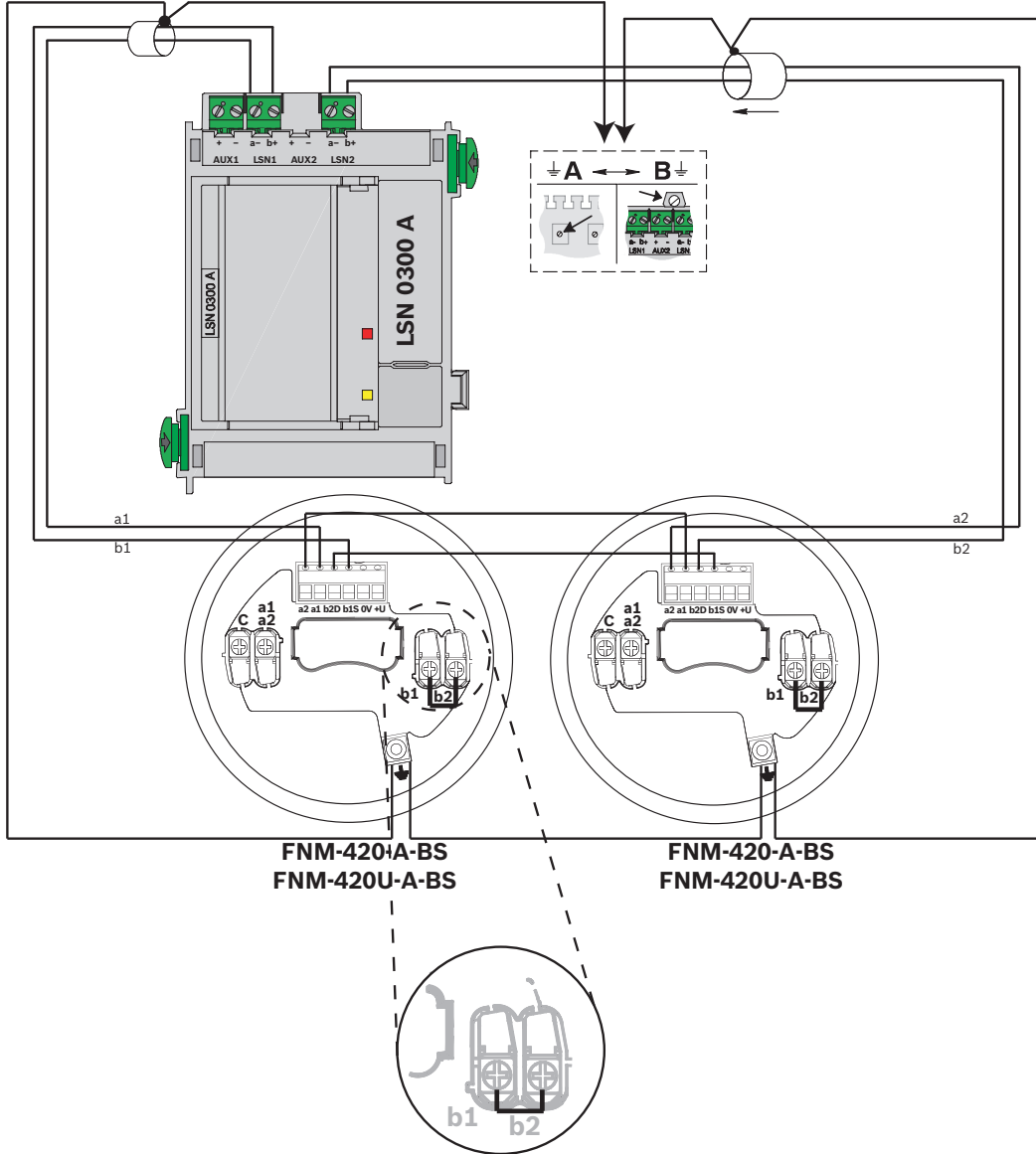




FNM-420-A-BS
FNM-420U-A-BS

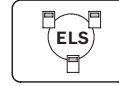


VdS 2489

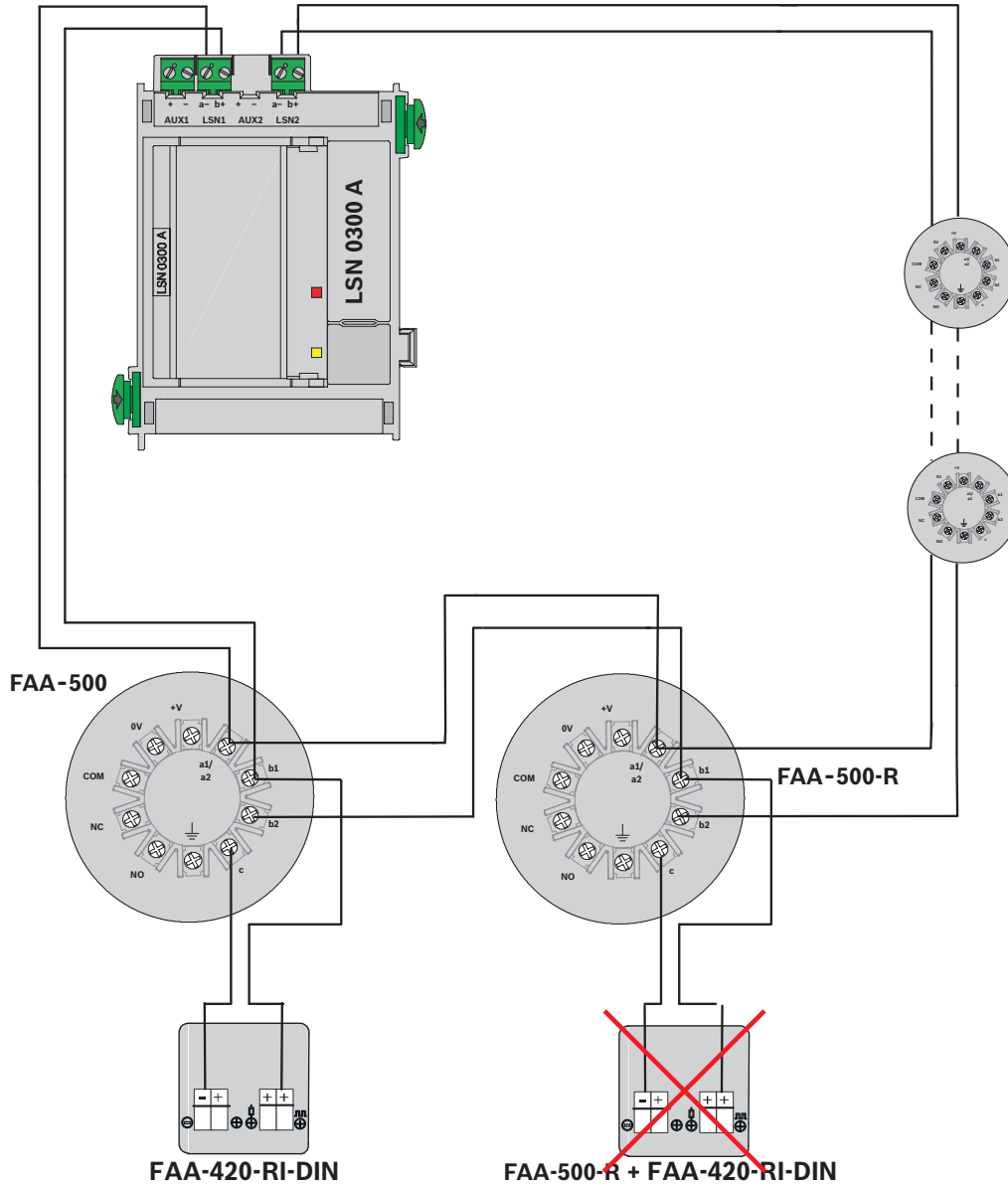




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

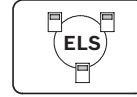


VdS 2489

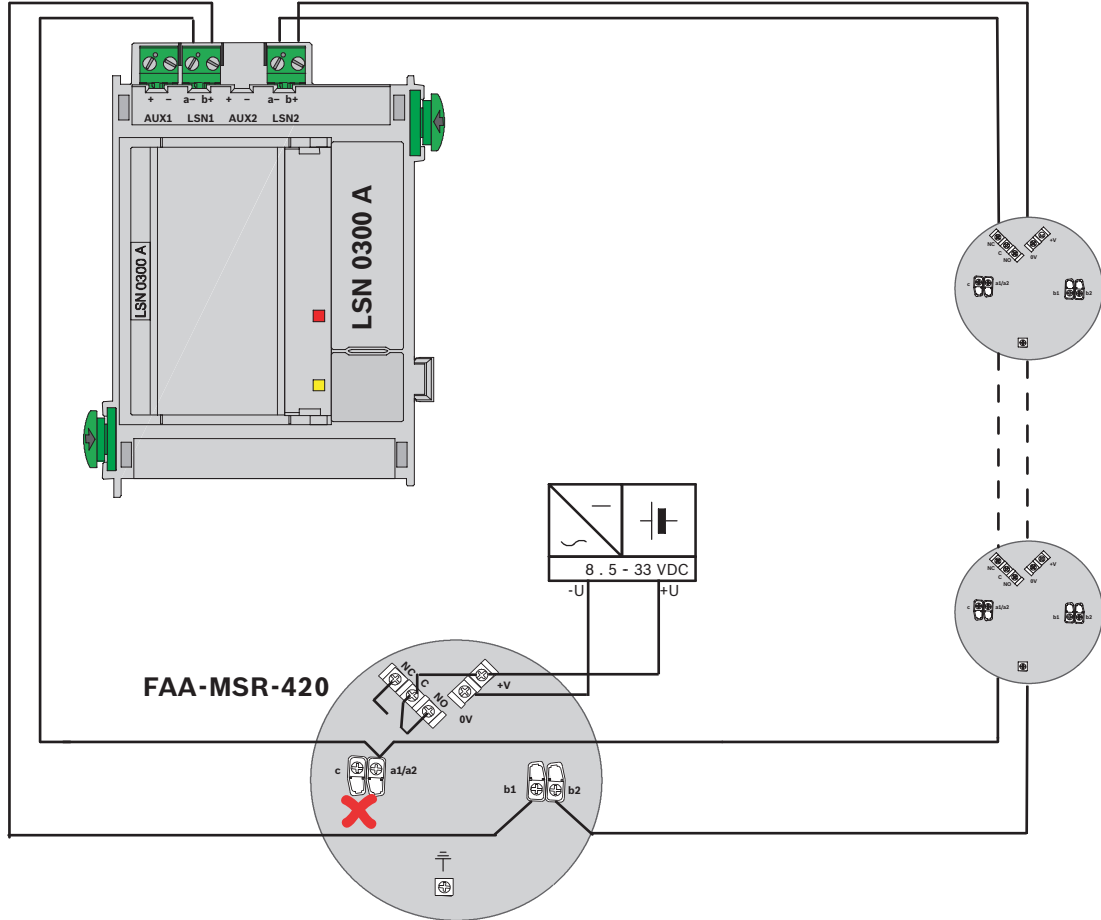




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/-DOT-R/-DOTC-R

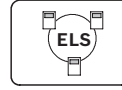


VdS 2489

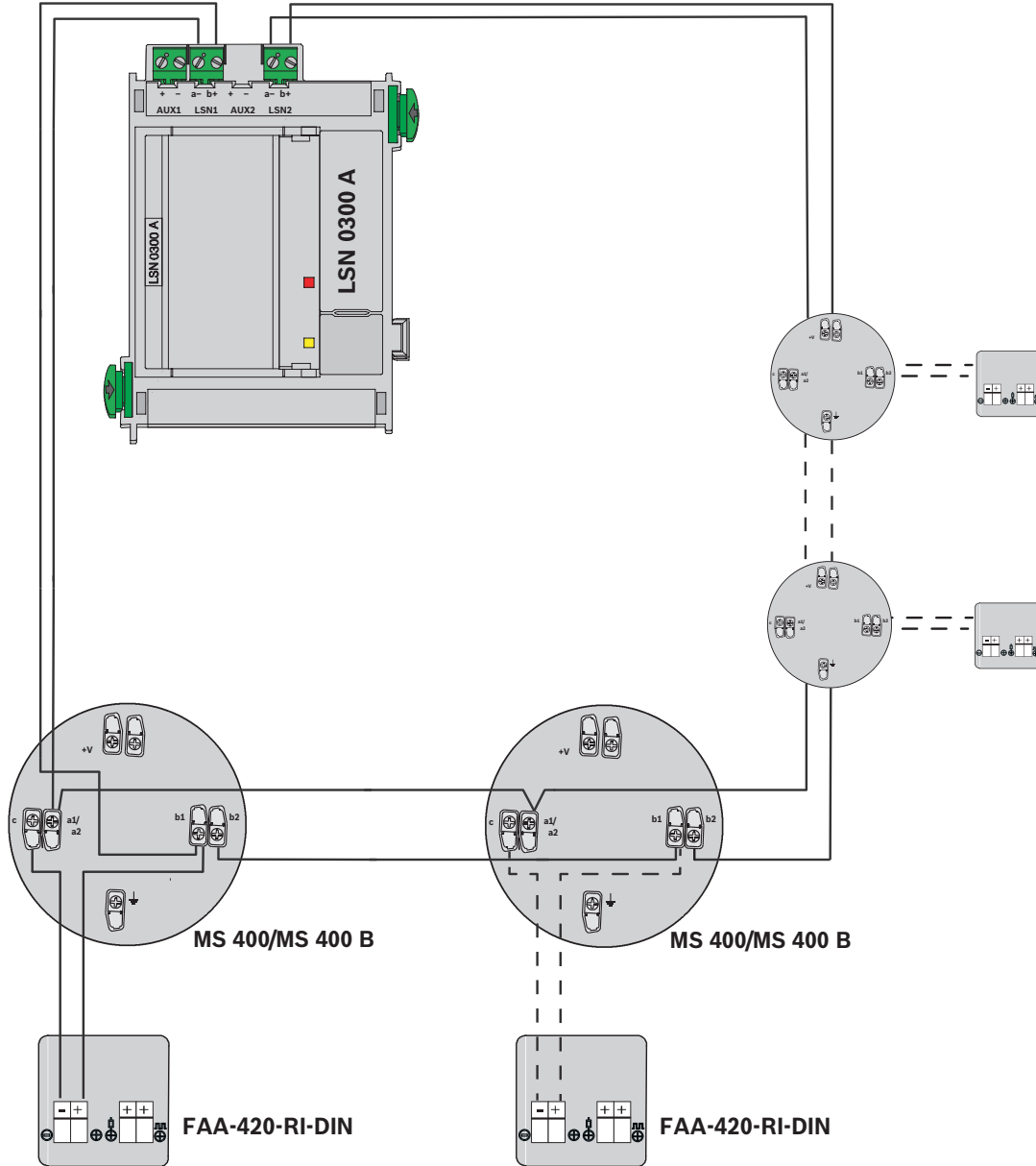


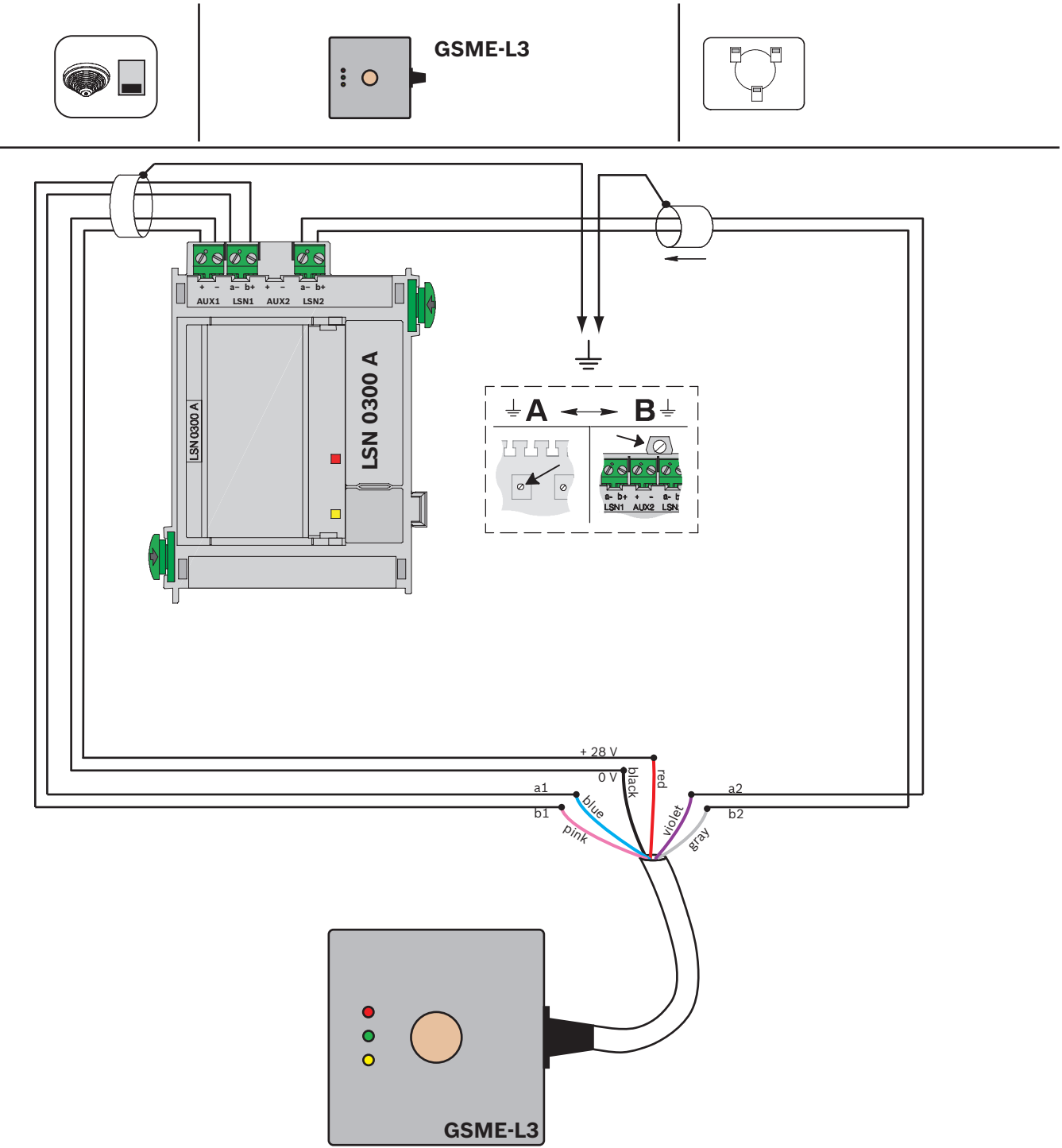


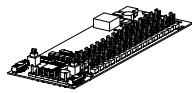
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



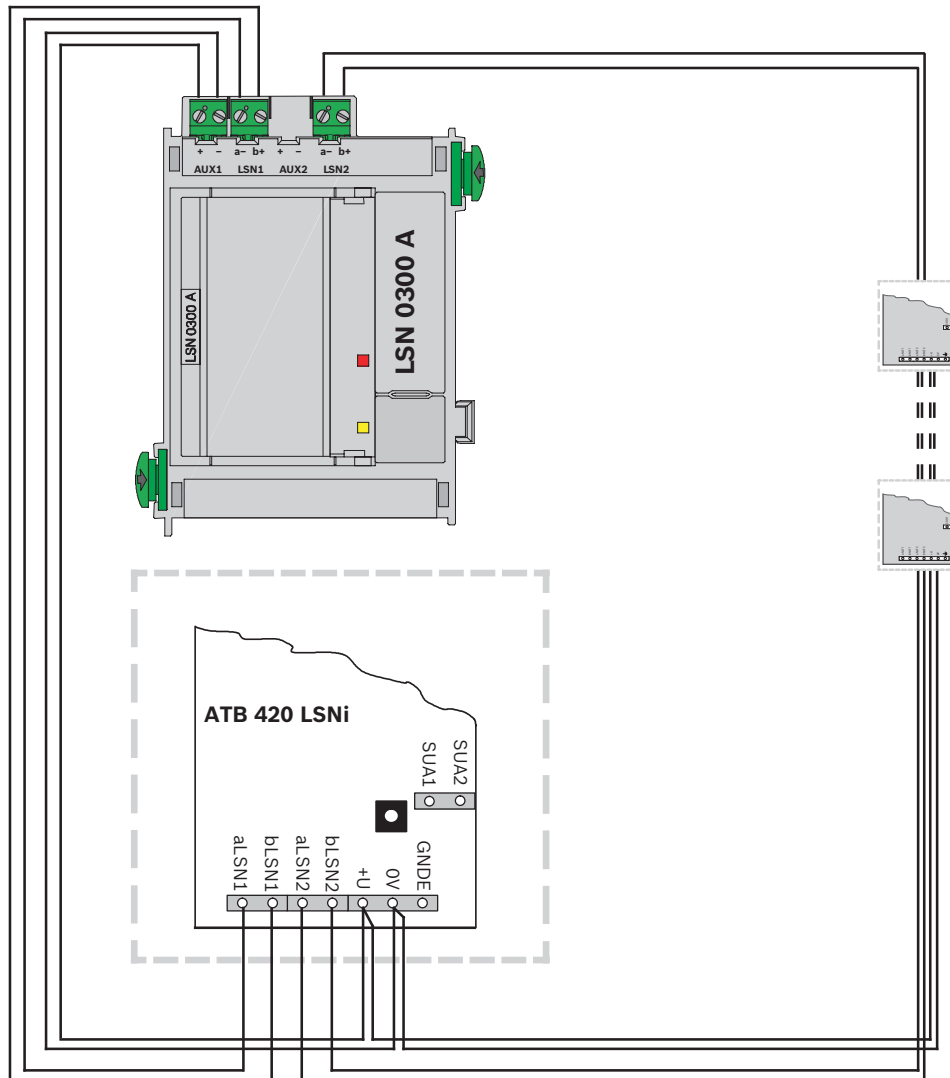
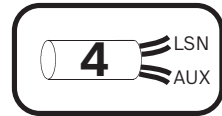
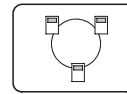
VdS 2489





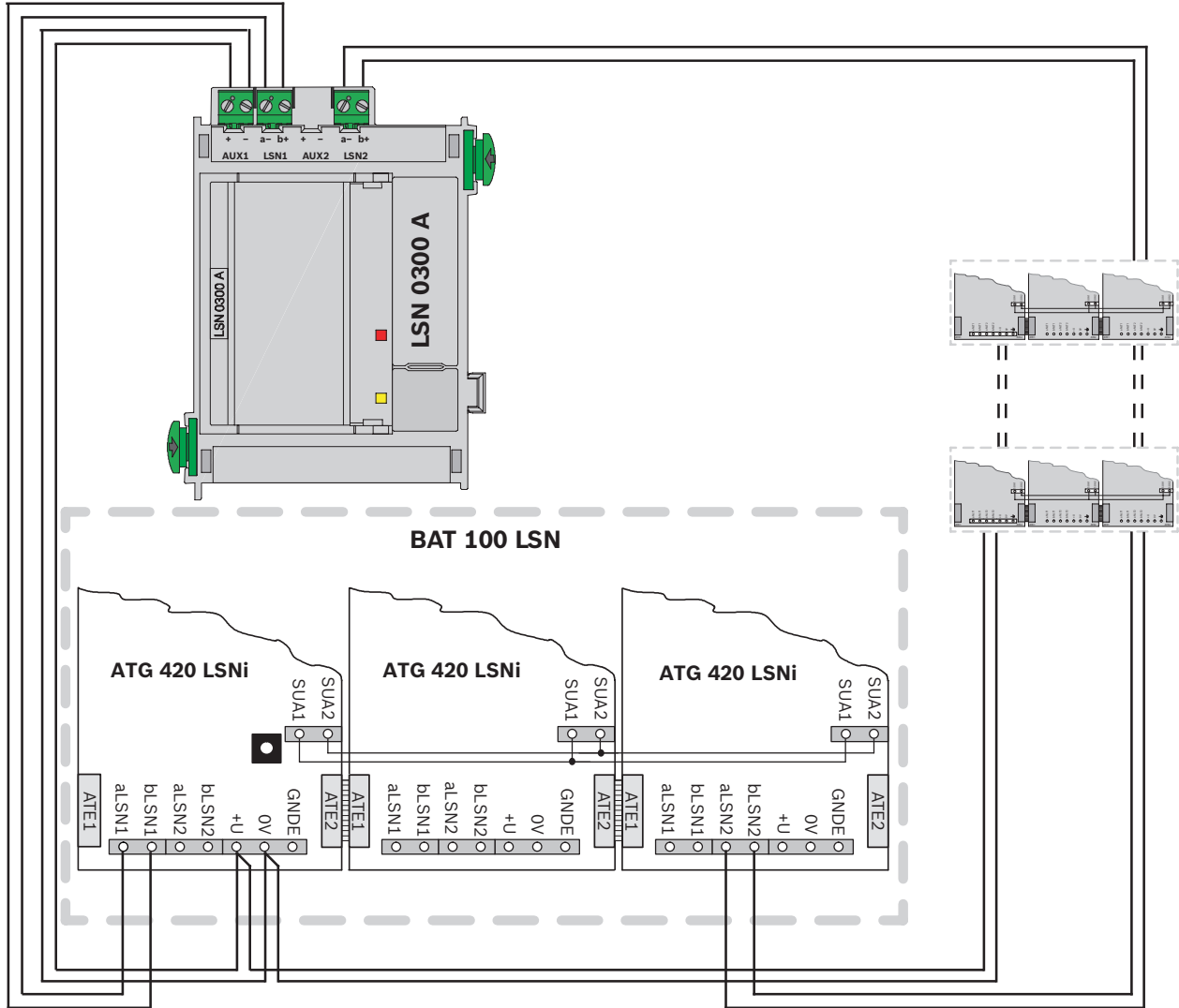
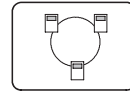


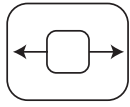
ATB 420 LSNi



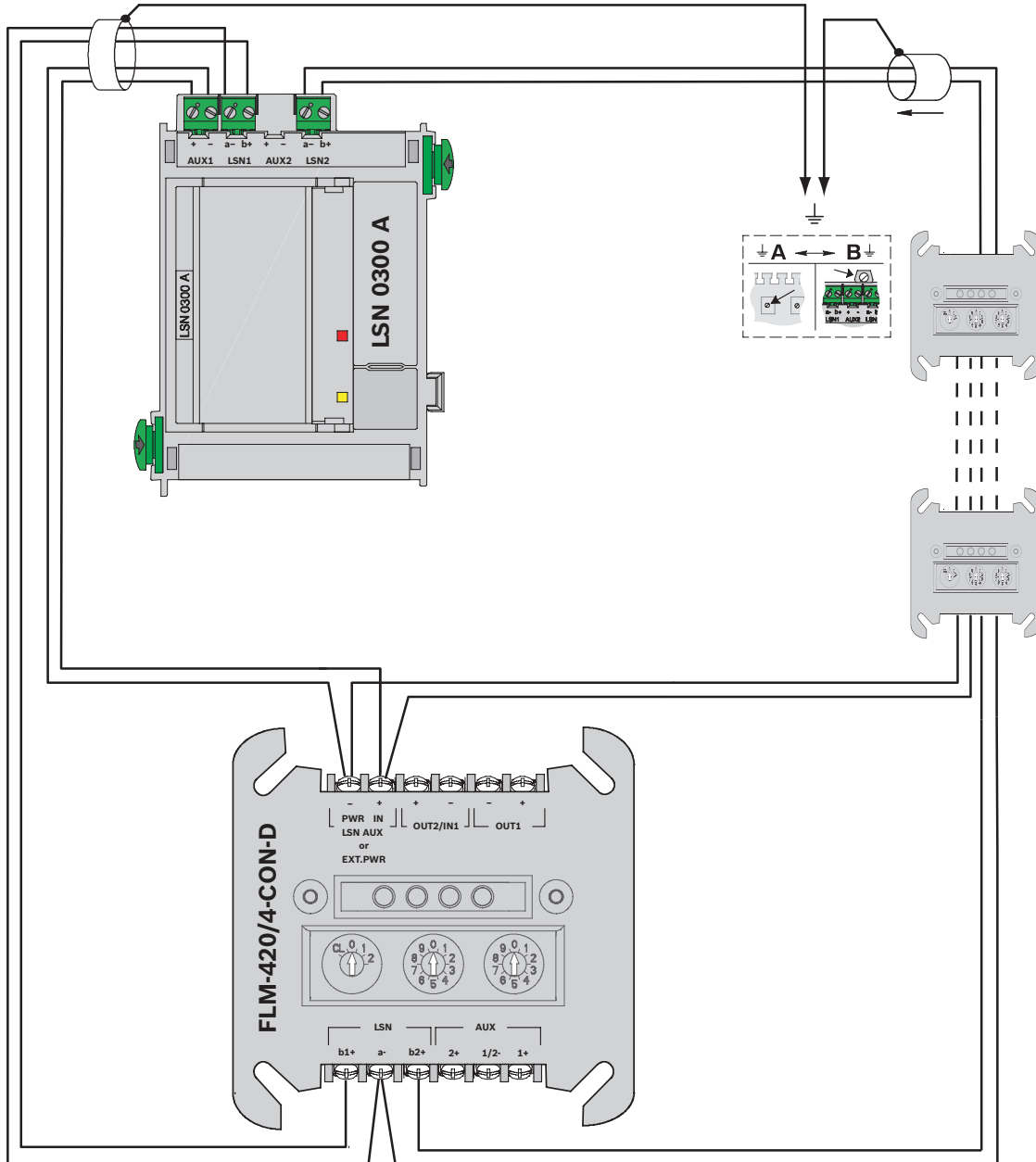
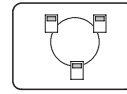


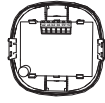
BAT 100 LSN
ATG 420 LSNi



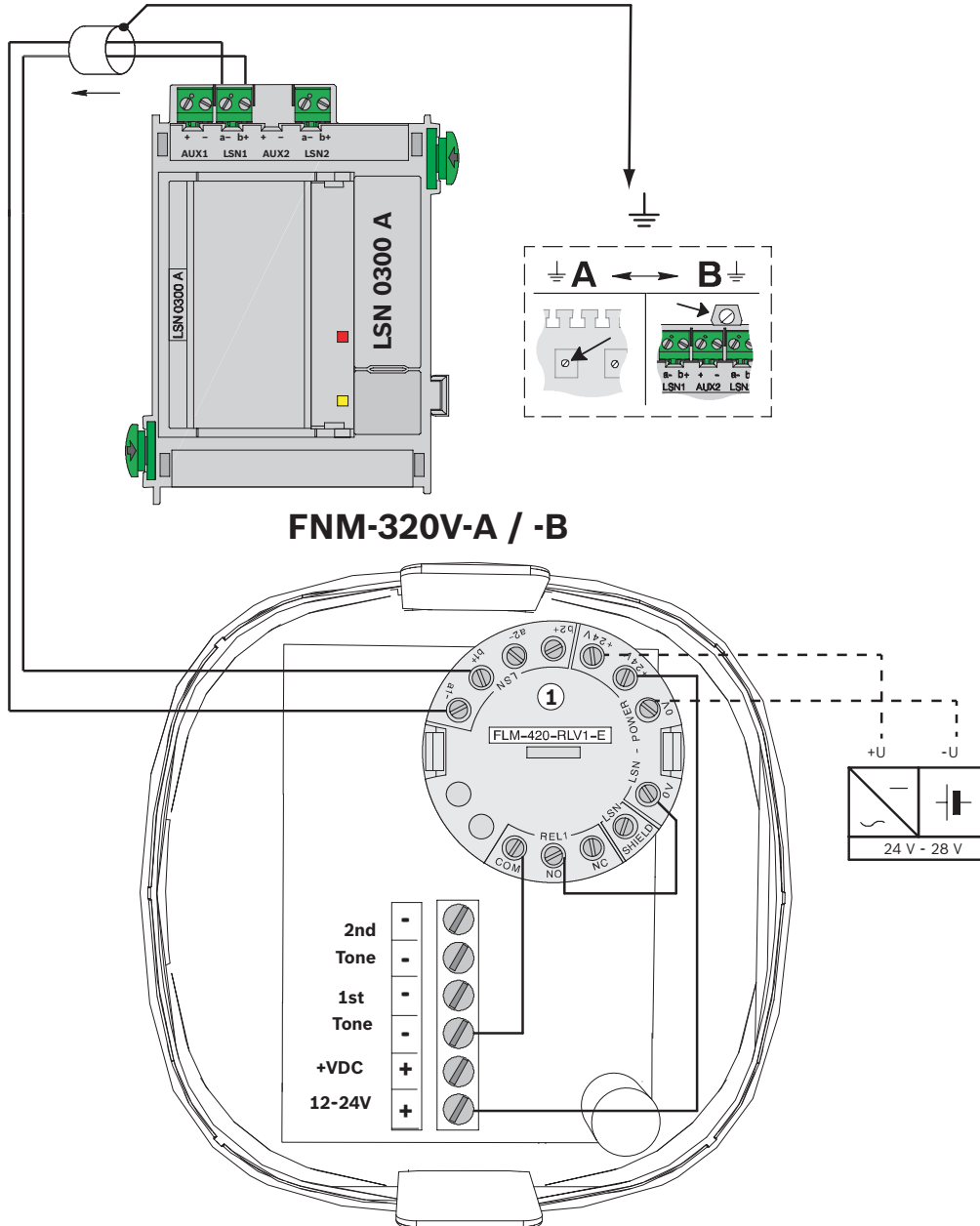
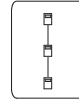


**FLM-420/
4-CON-D**



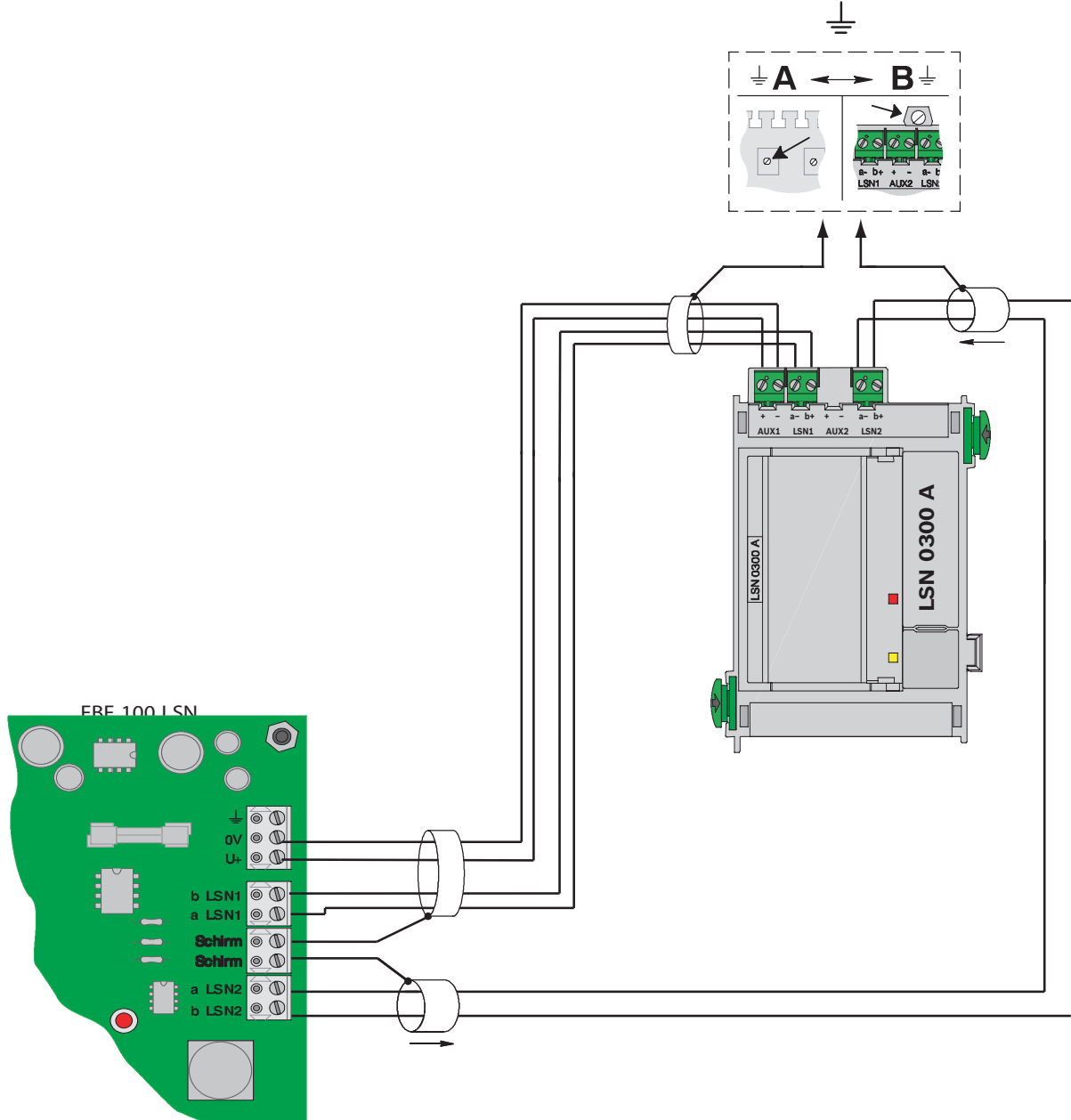
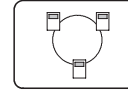


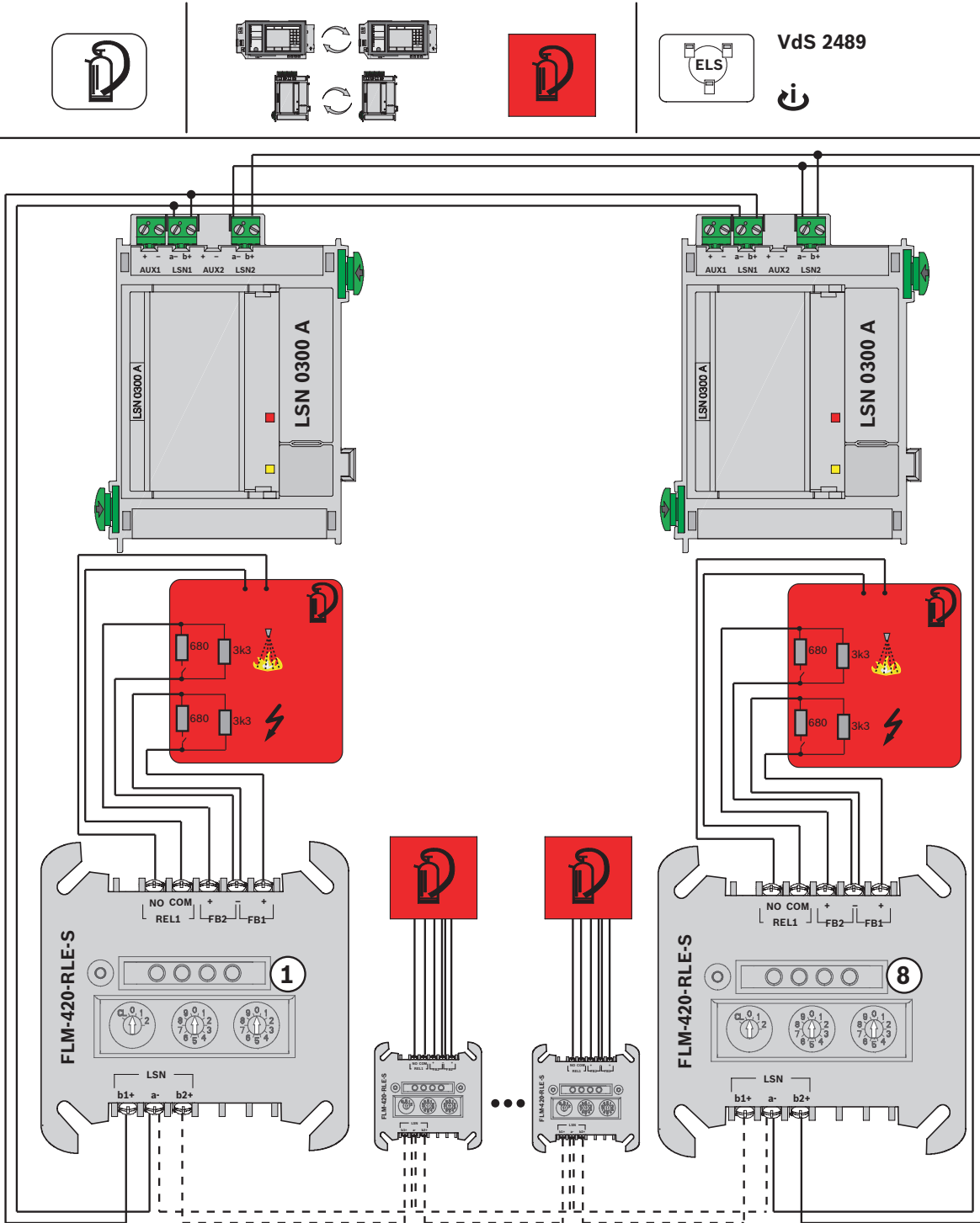
FNM-320V-A / -B

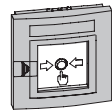
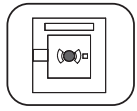




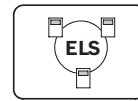
FBF 100 LSN



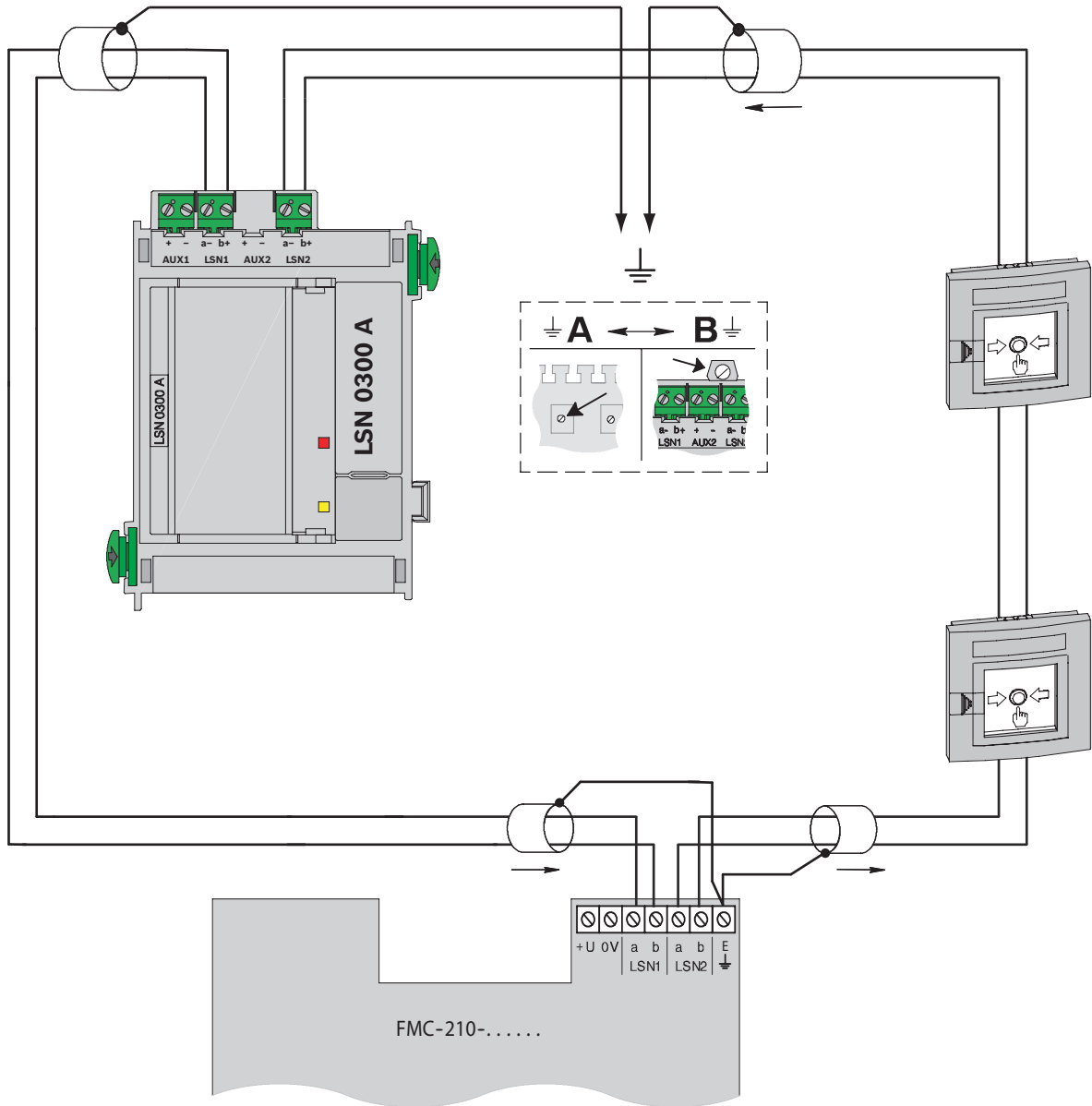


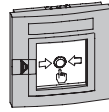


FMC-210-...

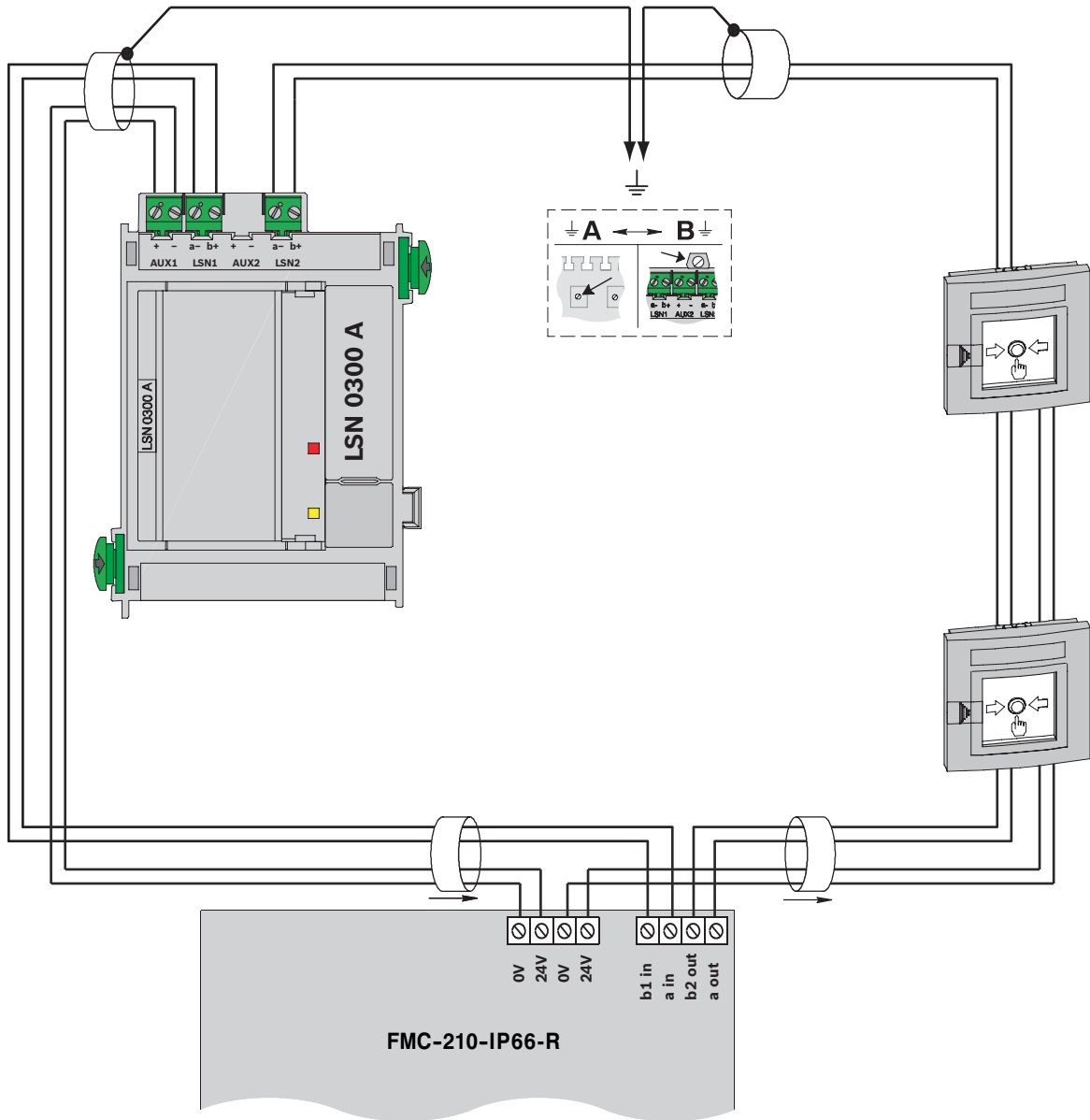
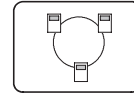


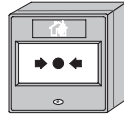
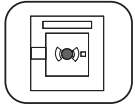
VdS 2489



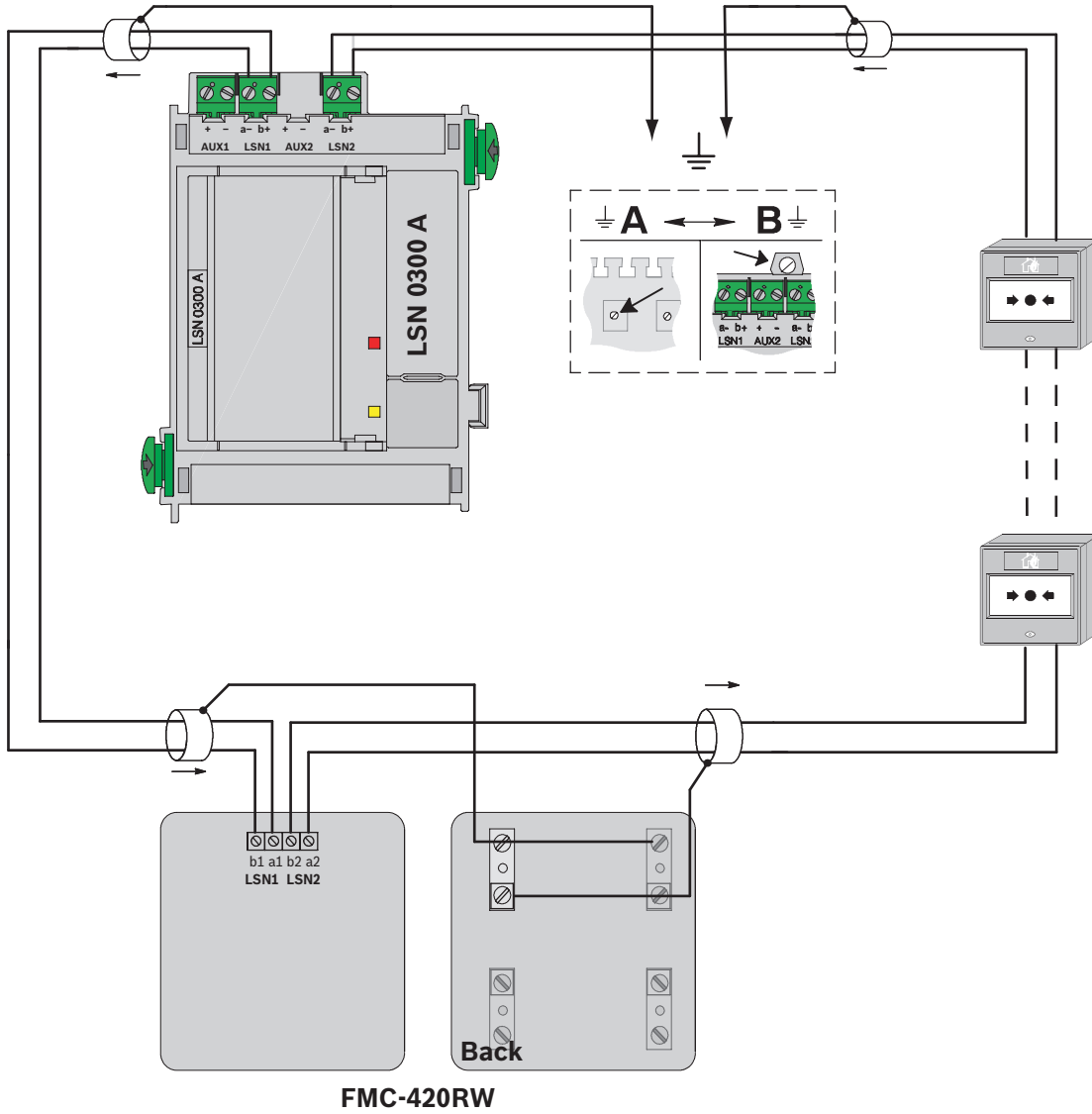
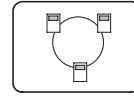


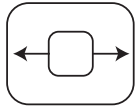
FMC-210-IP66-R



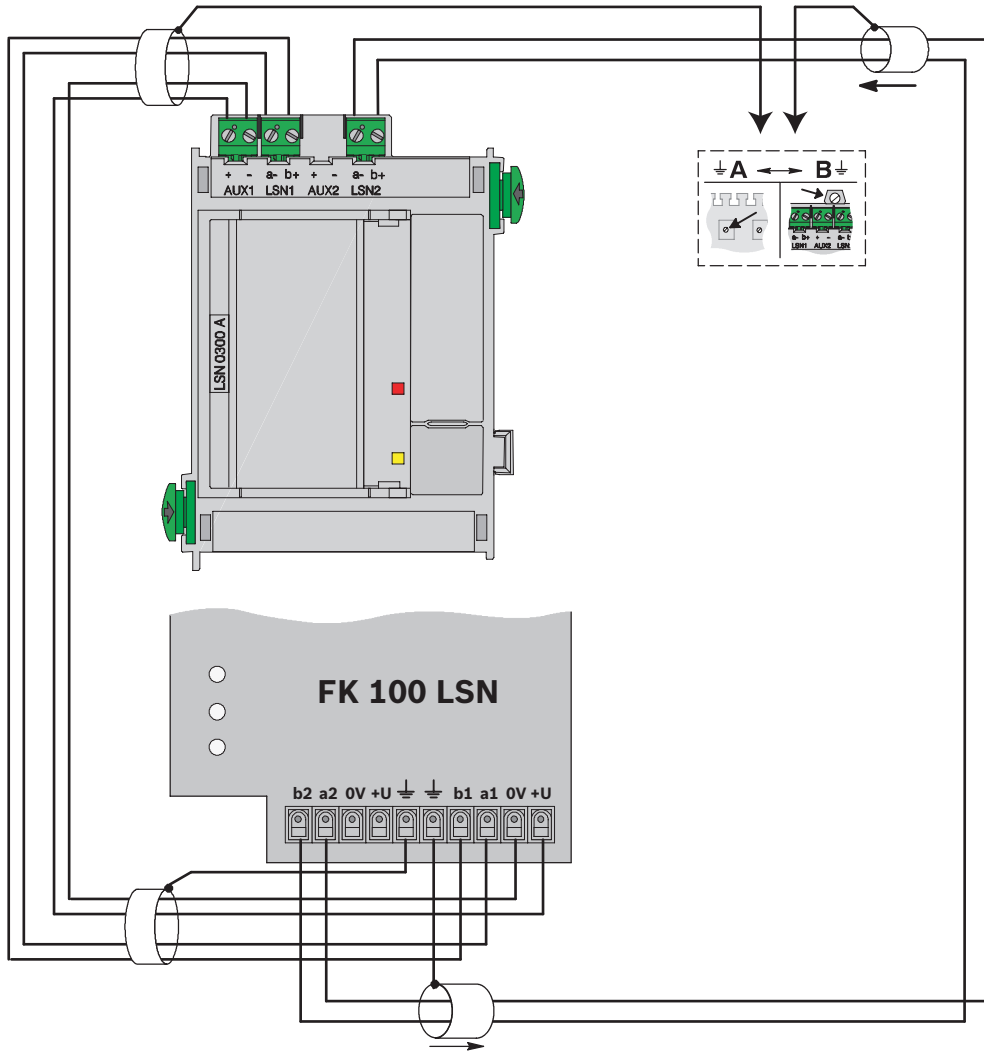
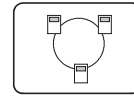


FMC-420RW-HSGRD
FMC-420RW-HSRRD
FMC-420RW-GFGRD
FMC-420RW-GFRRD
FMC-420RW-GSGRD
FMC-420RW-GSRRD



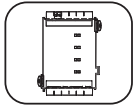


FK 100 LSN

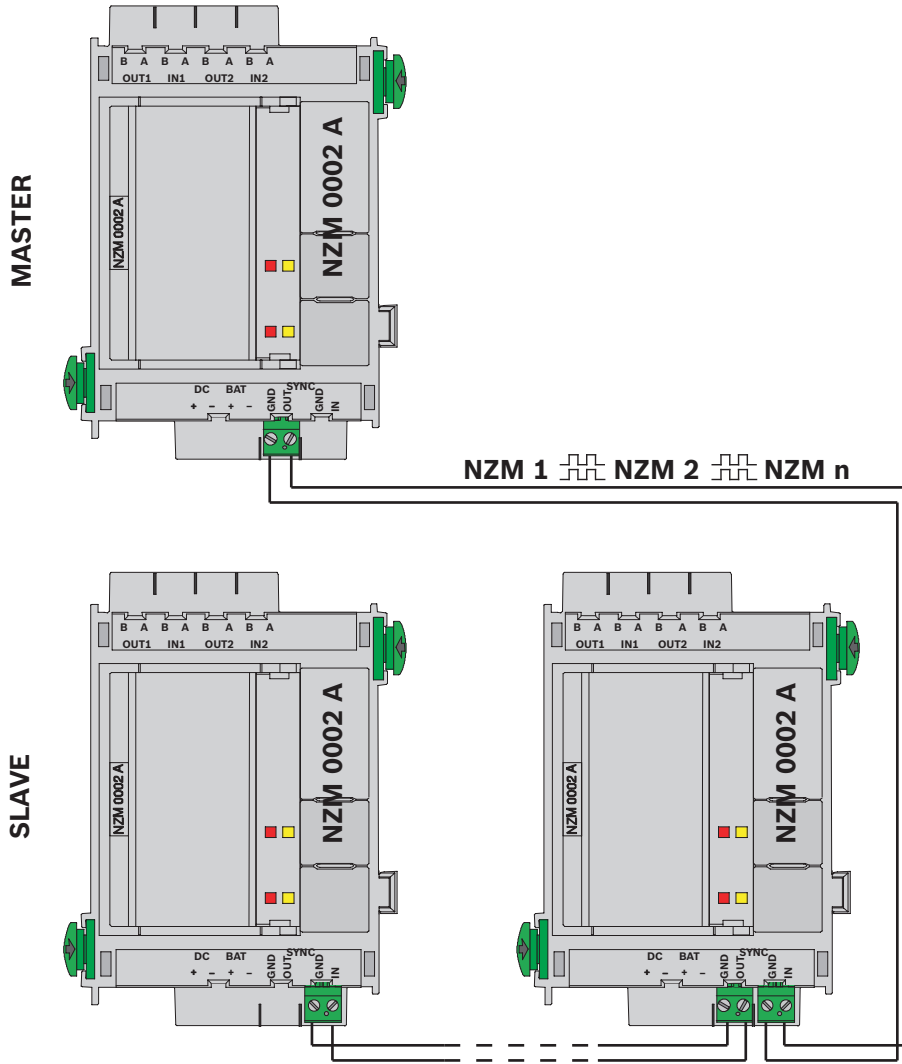


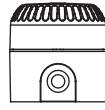
3.3.5

NZM 0002 A

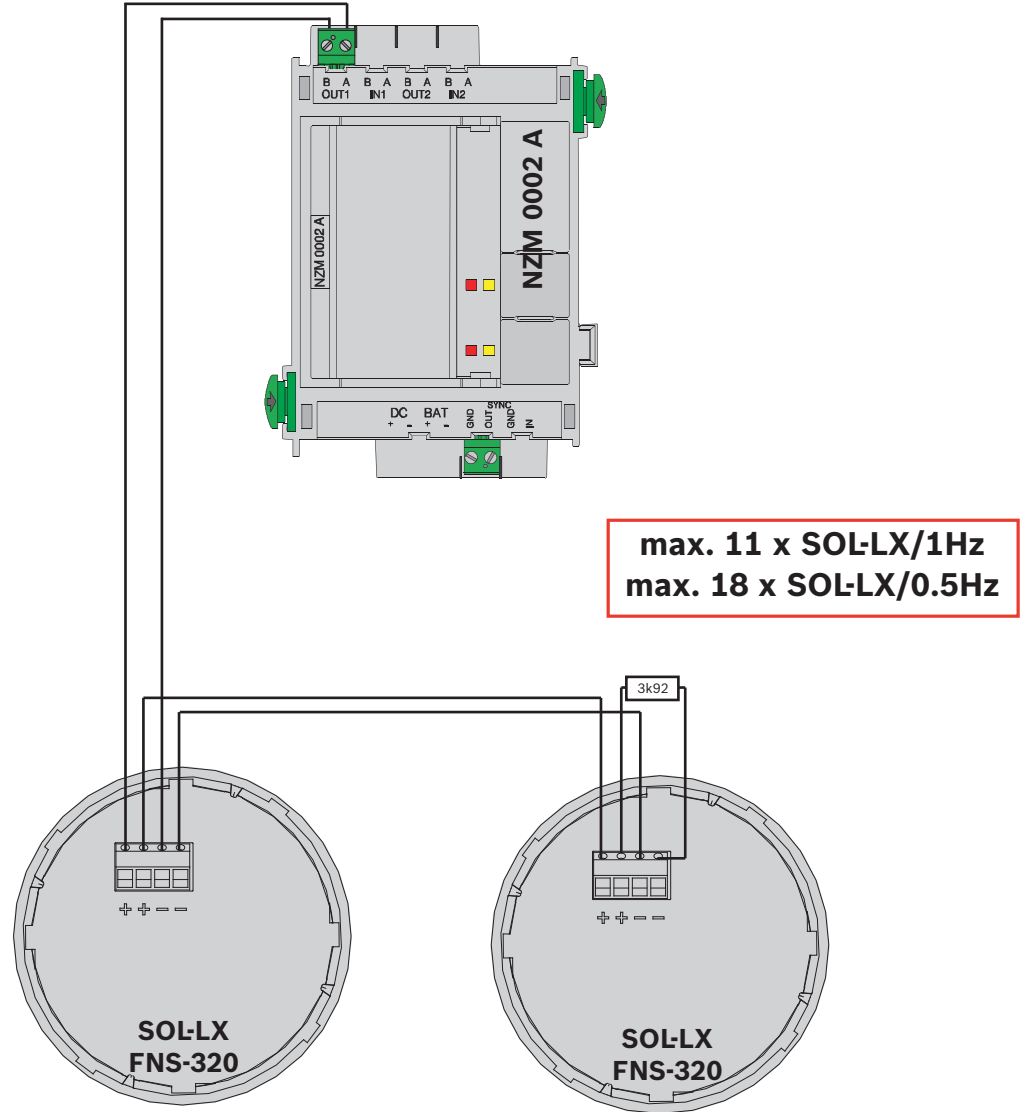
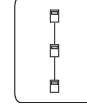


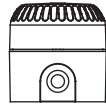
NZM 0002 A



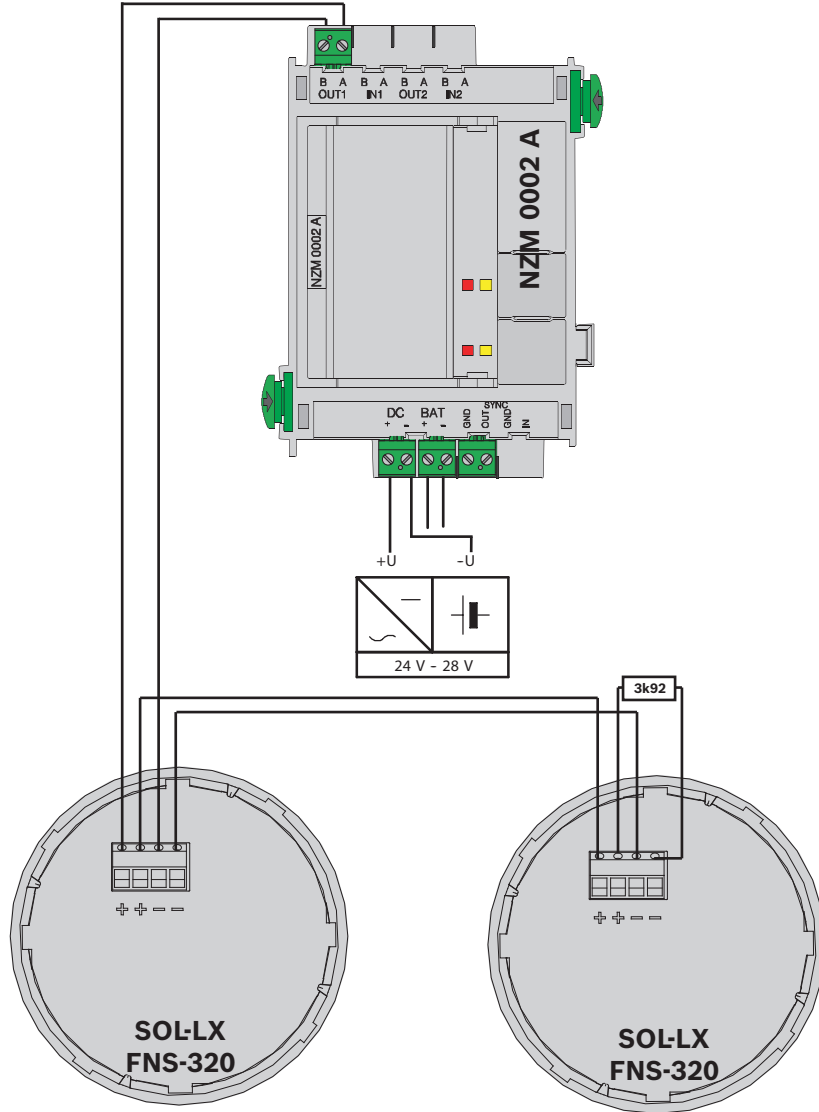
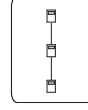


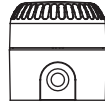
**SOL-LX
FNS-320**



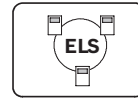


**SOL-LX
FNS-320**

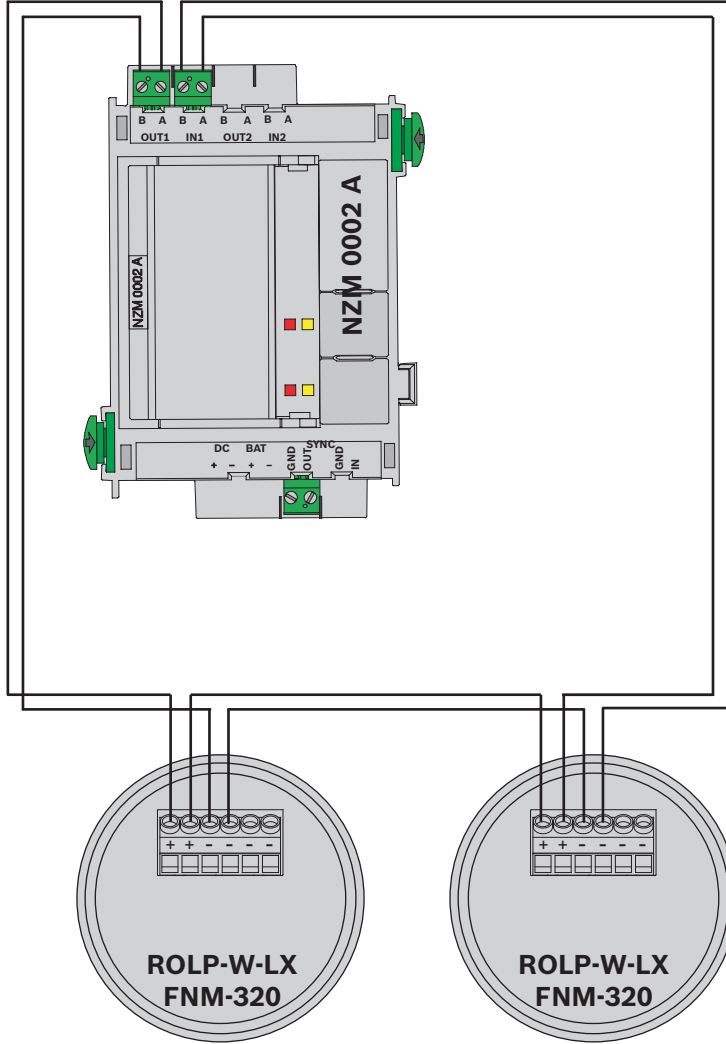


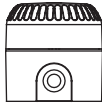


**ROLP-W-LX
FNM-320**

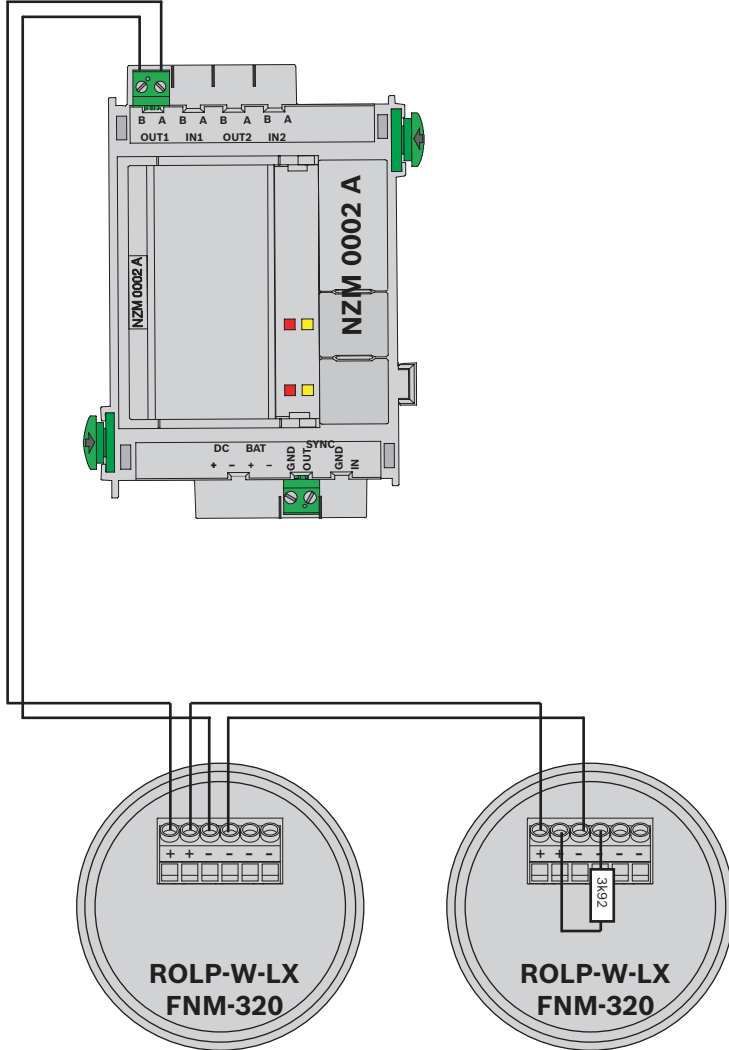
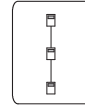


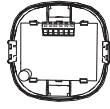
VdS 2489



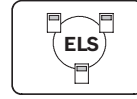


**ROLP-W-LX
FNM-320**

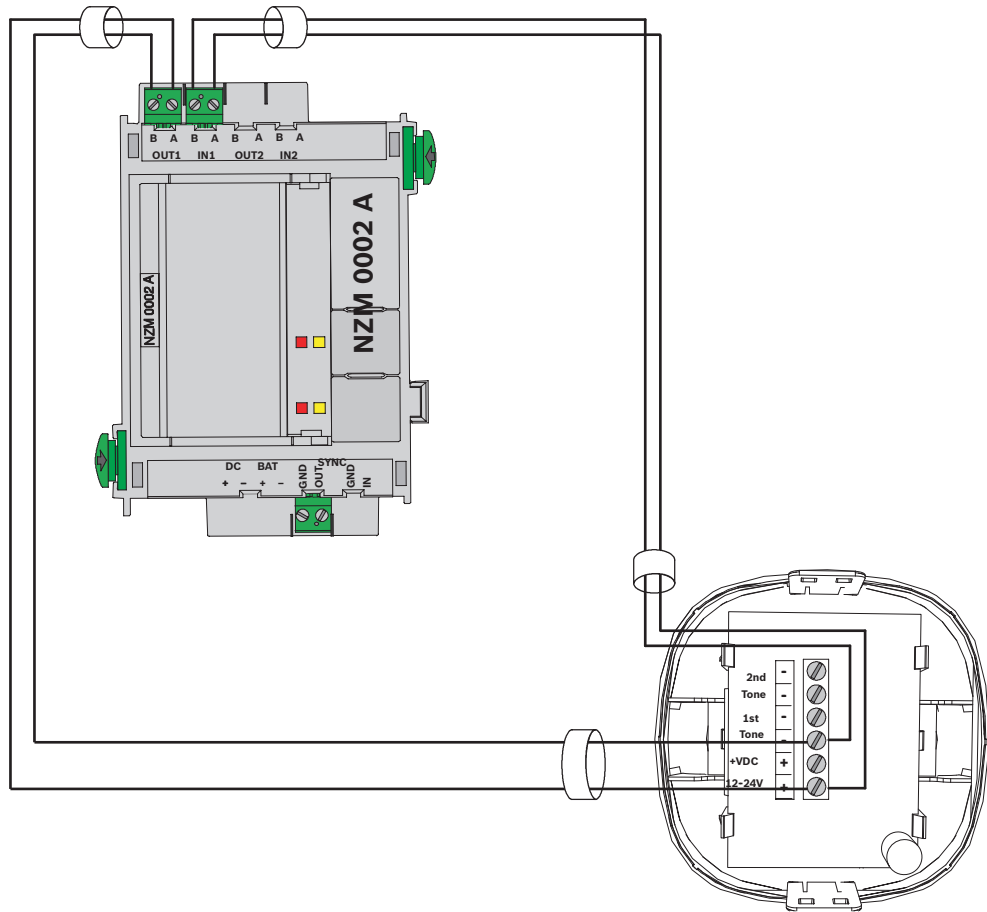


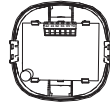


FNM-320V-A / -B

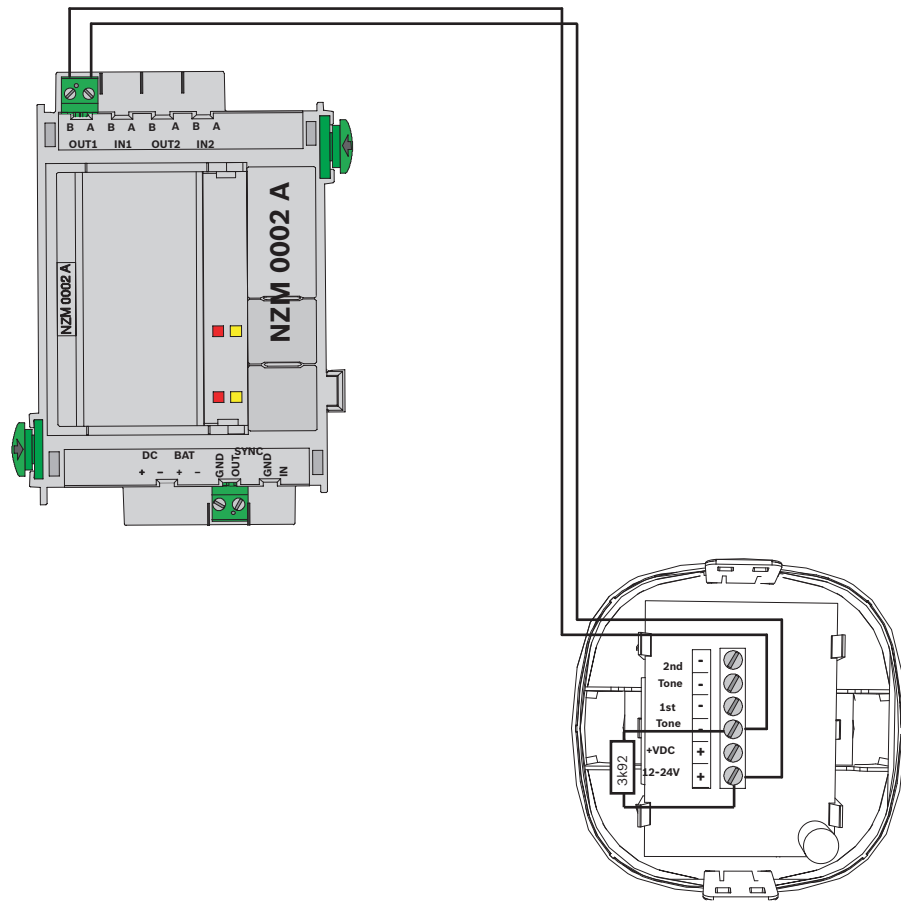
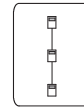


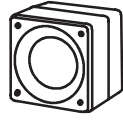
VdS 2489



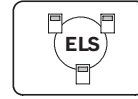


FNM-320V-A / -B

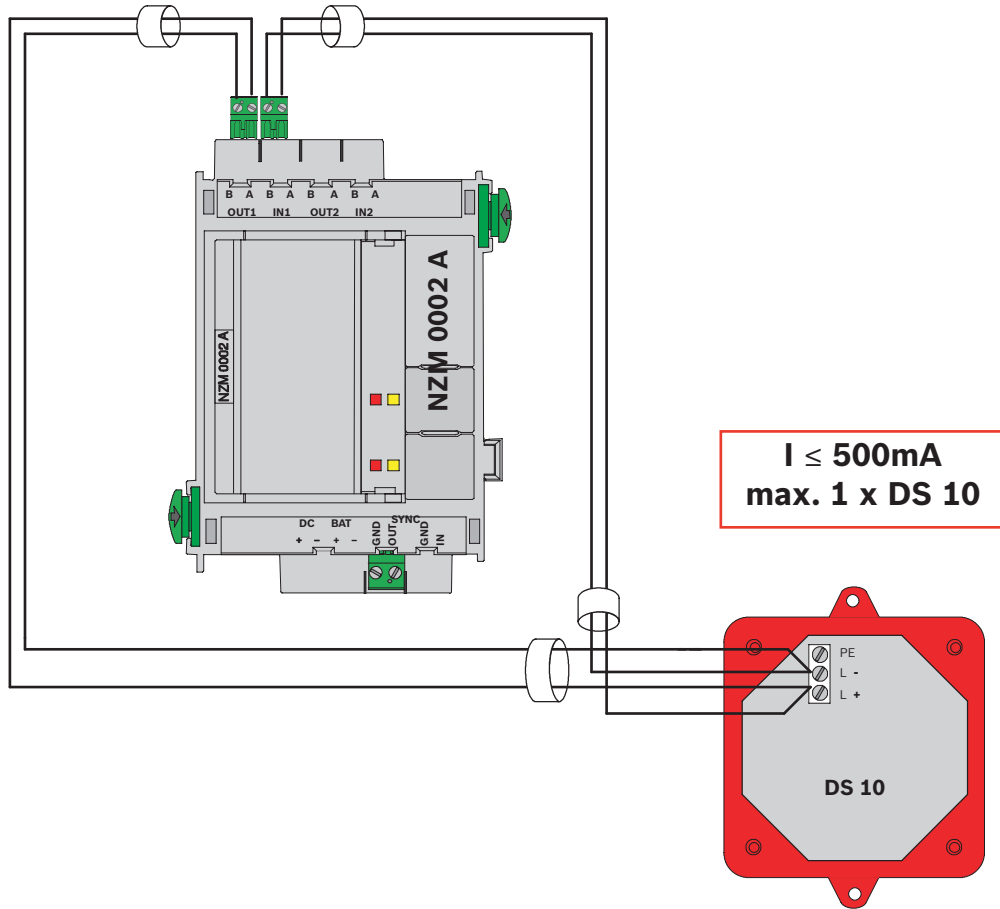


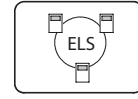


DS 10

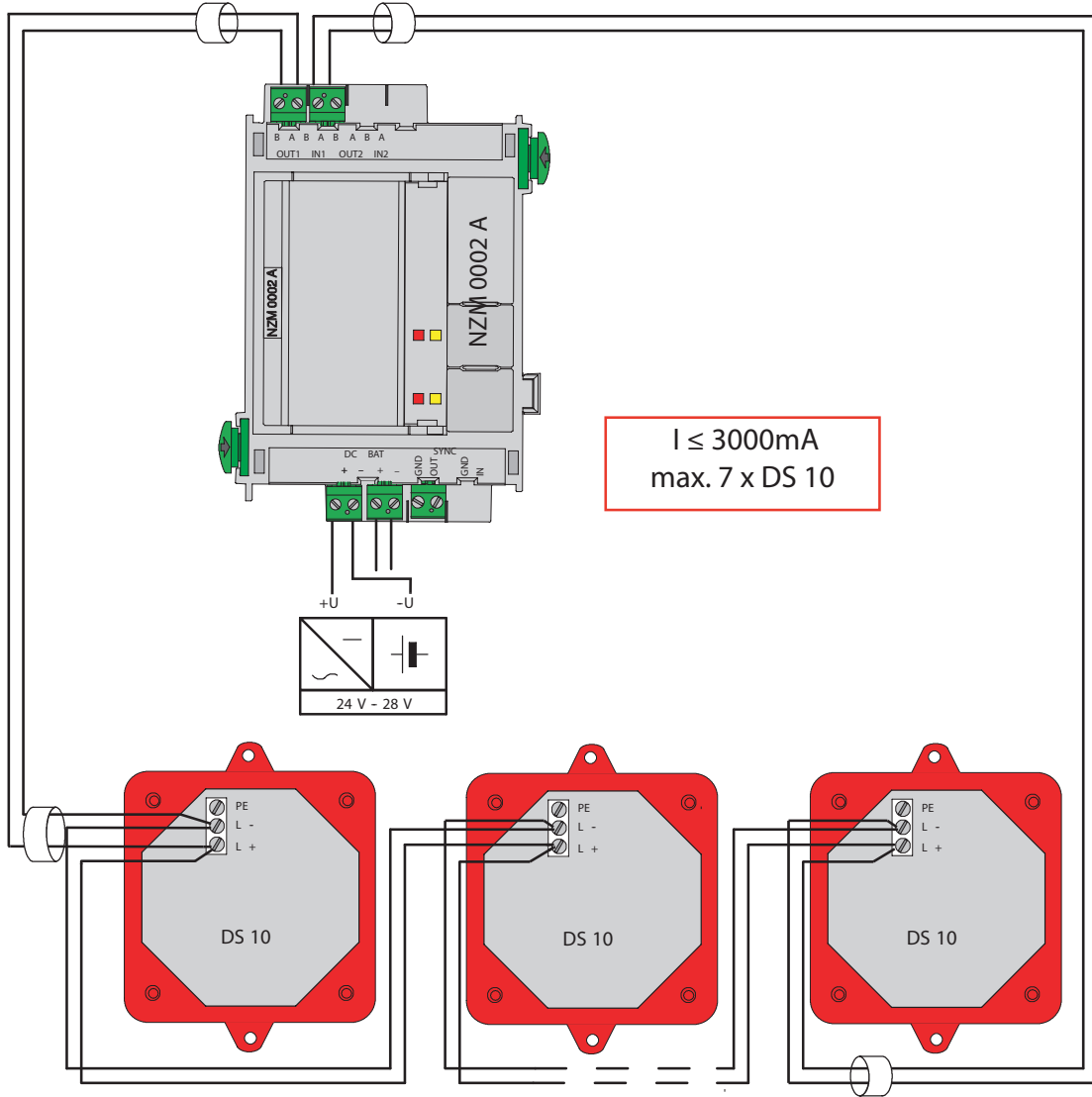


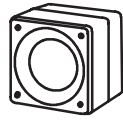
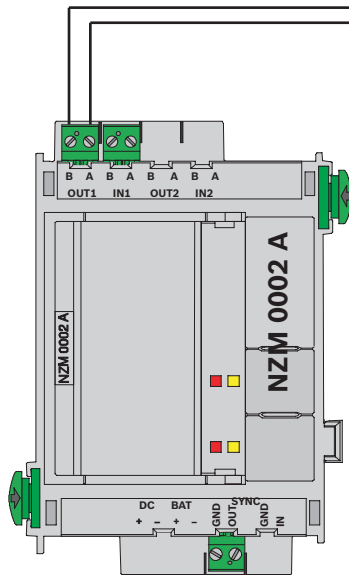
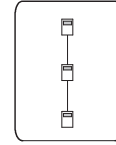
VdS 2489



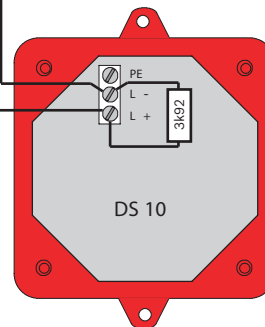


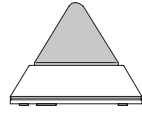
VdS 2489



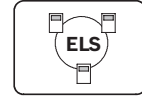
**DS 10**

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

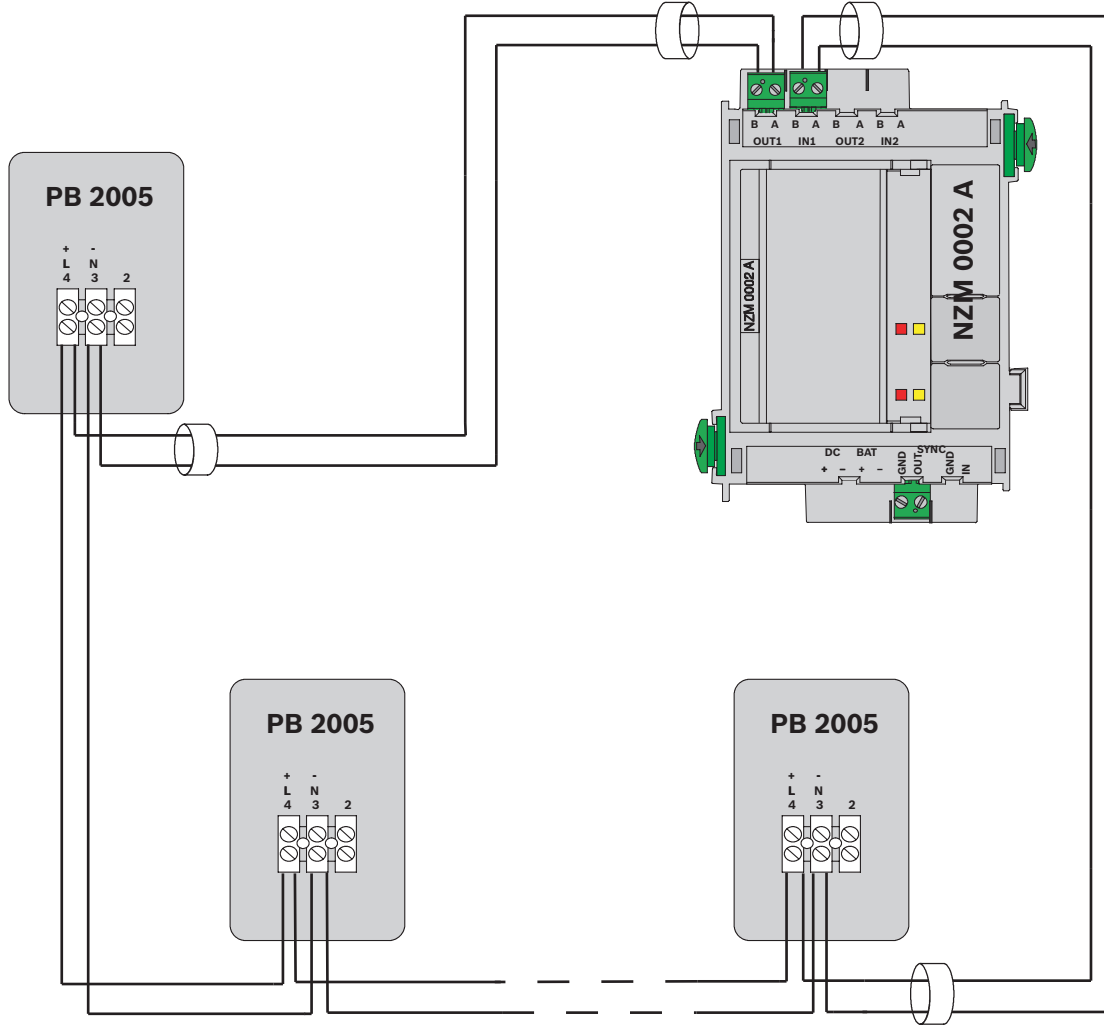


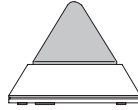


PB 2005

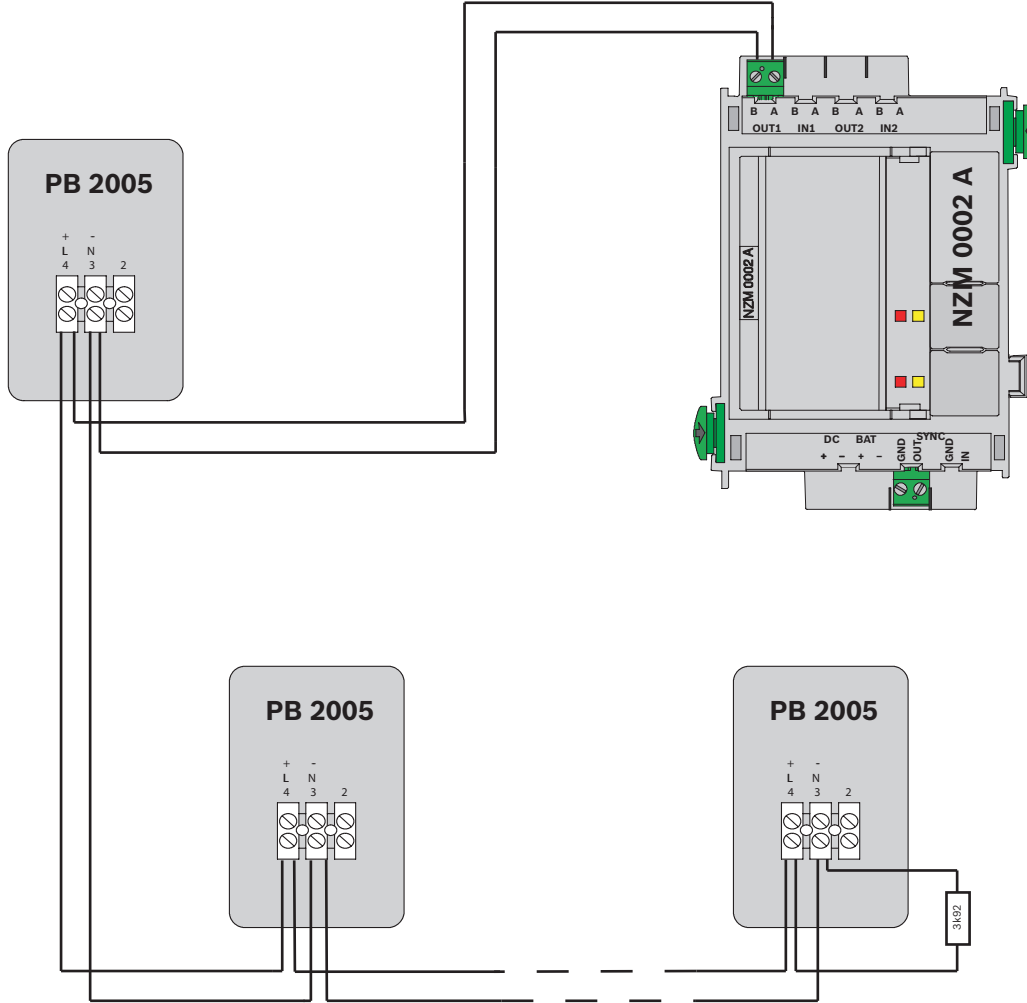
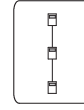


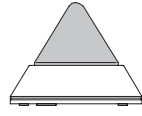
VdS 2489



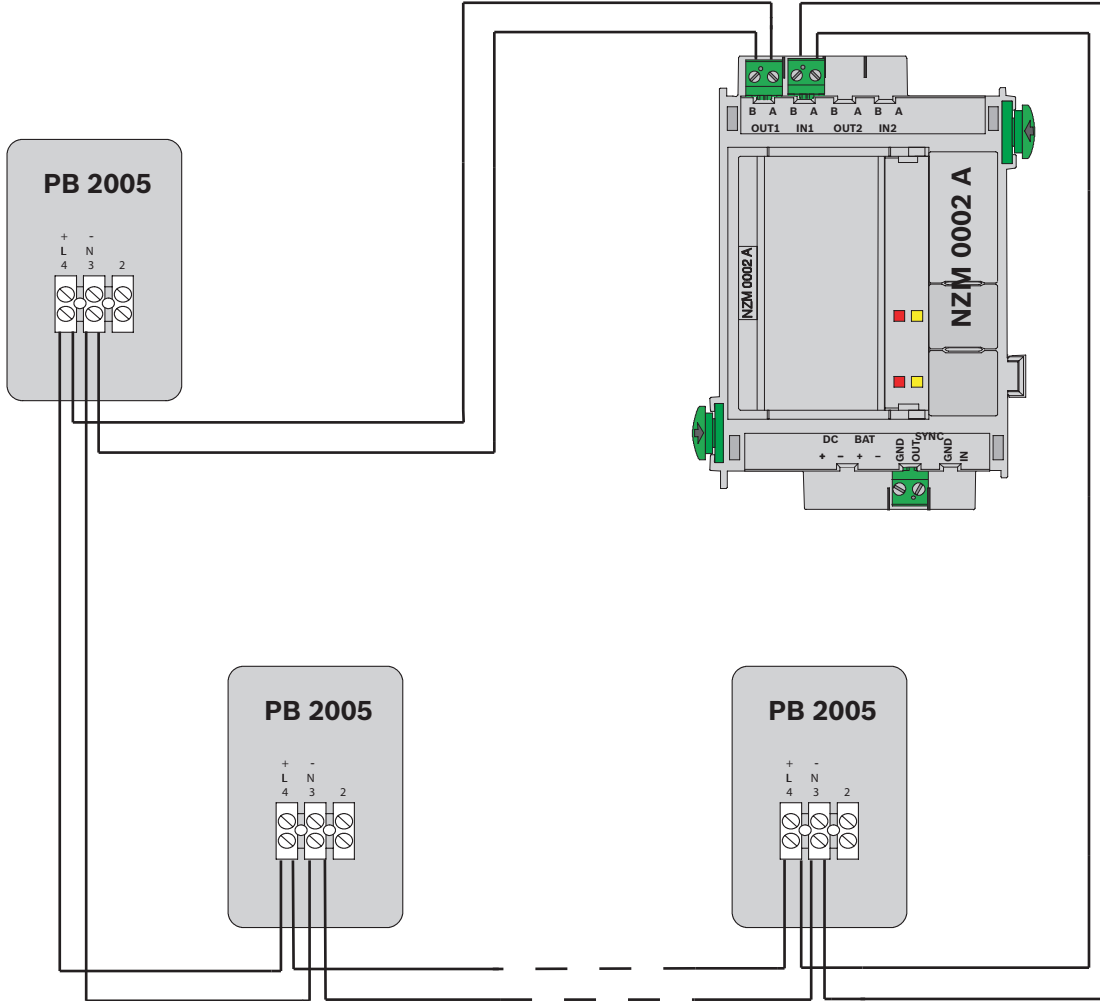
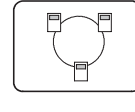


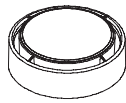
PB 2005



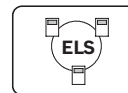


PB 2005

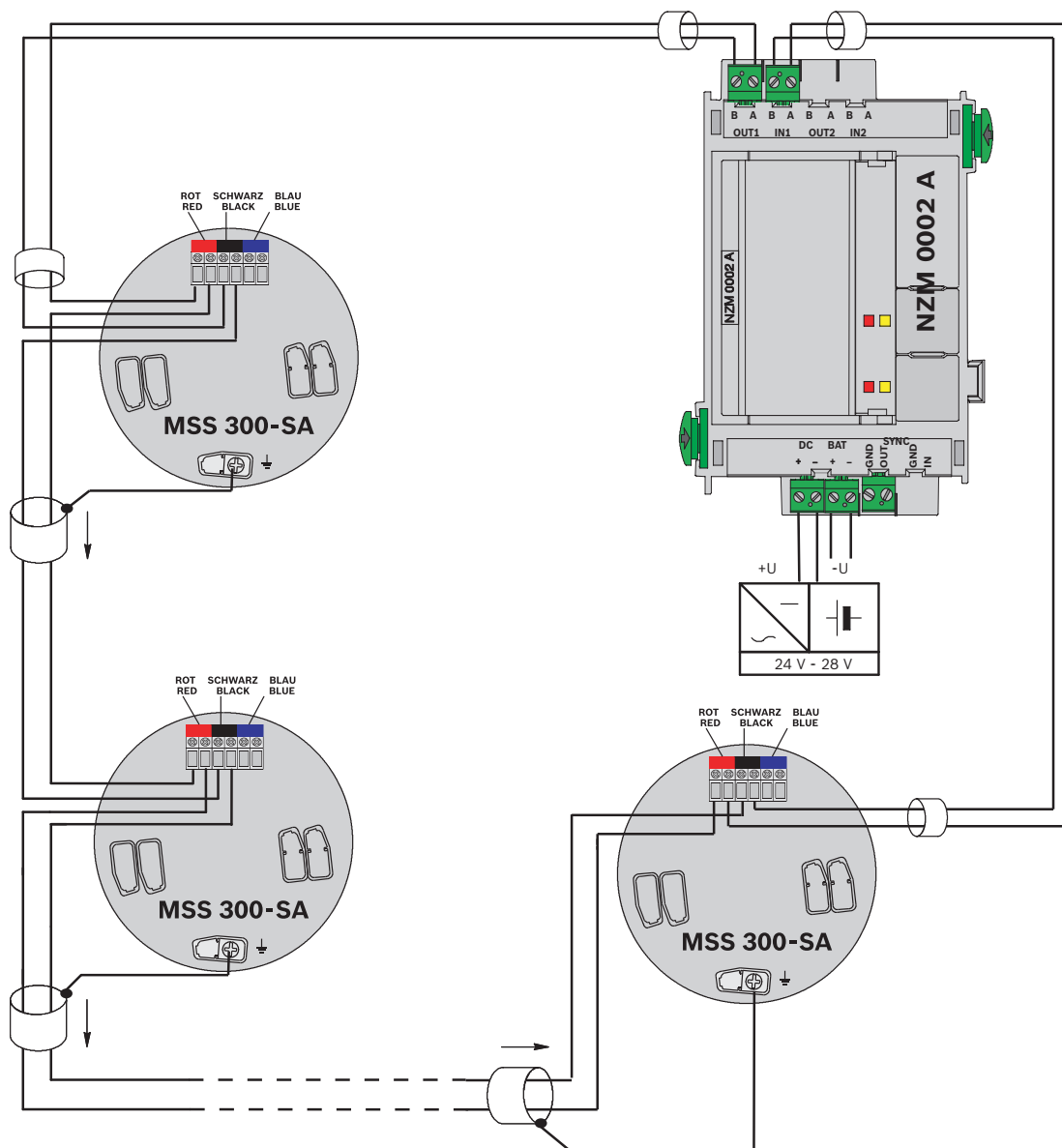




MSS 300-SA

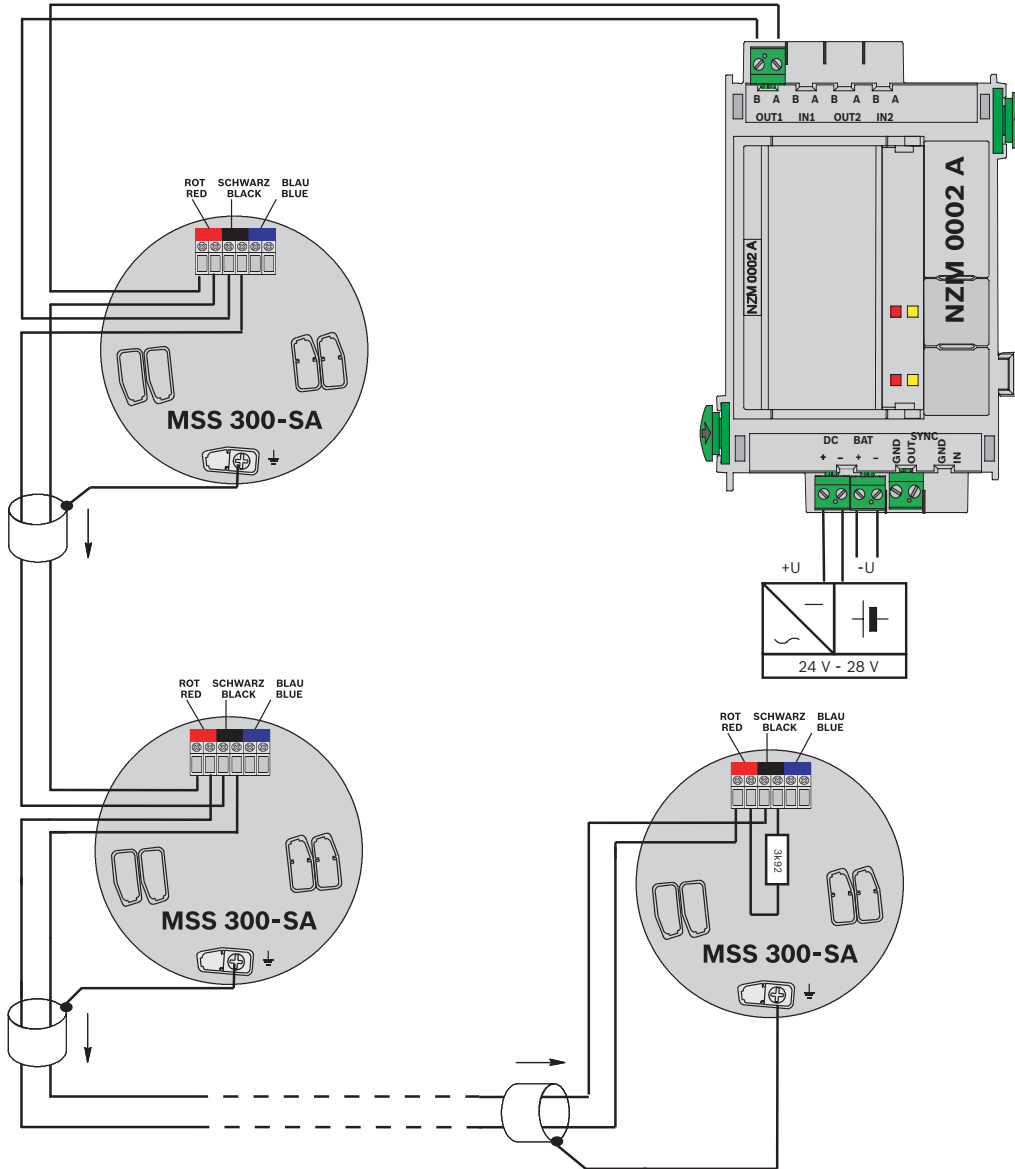
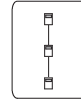


VdS 2489





MSS 300-SA



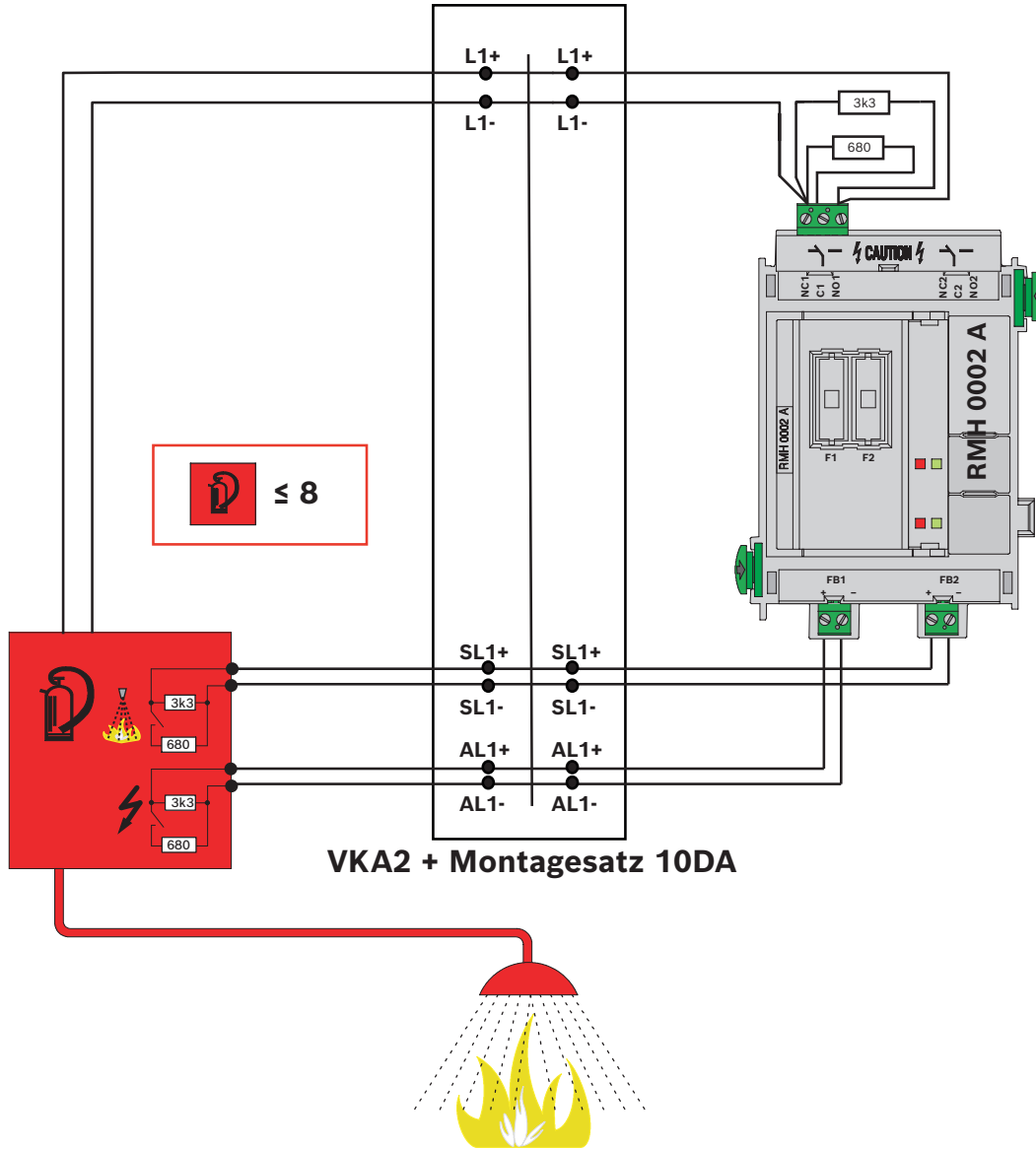
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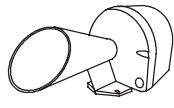
RMH 0002 A



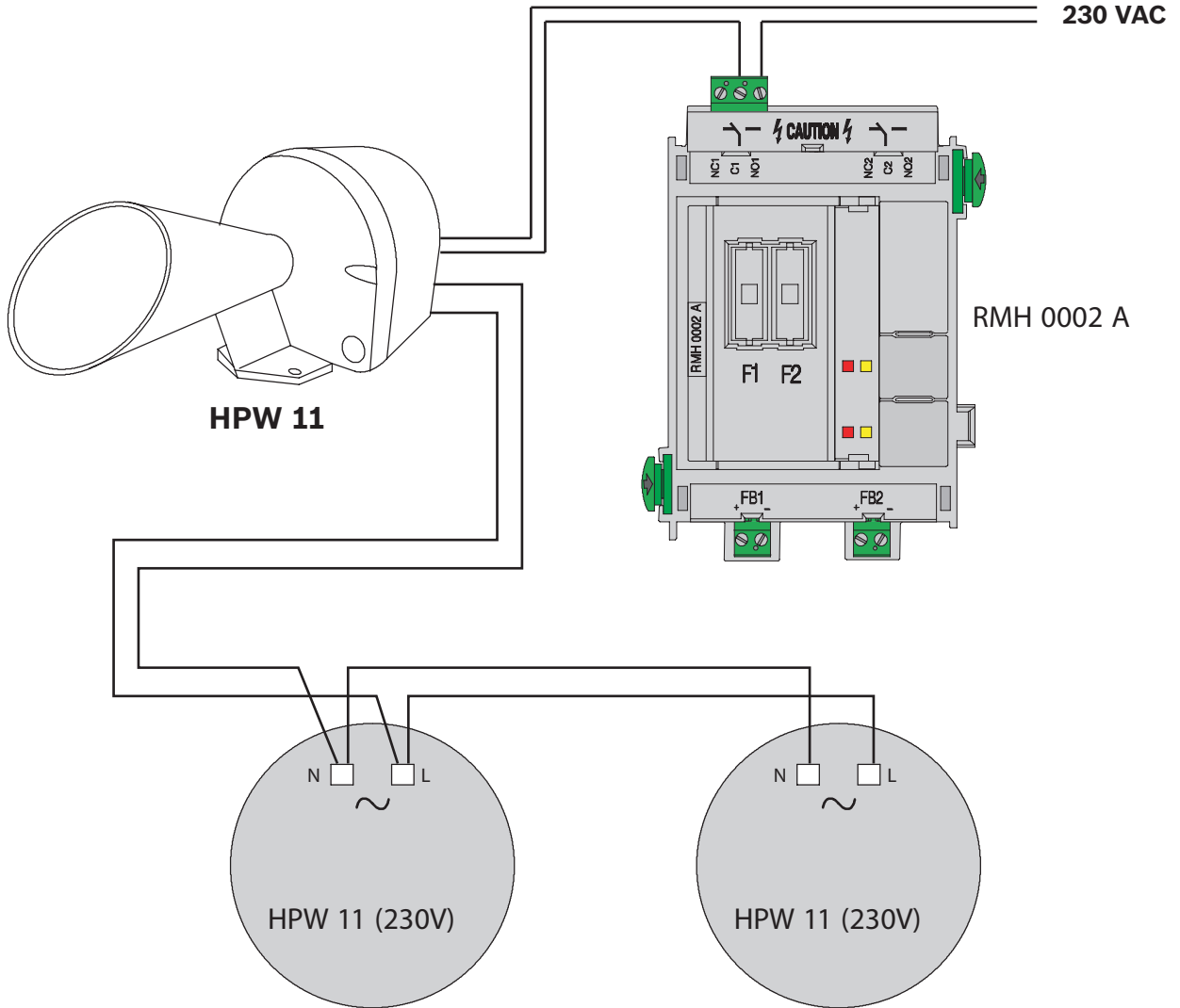
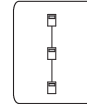
Löschanlage

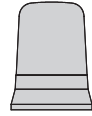
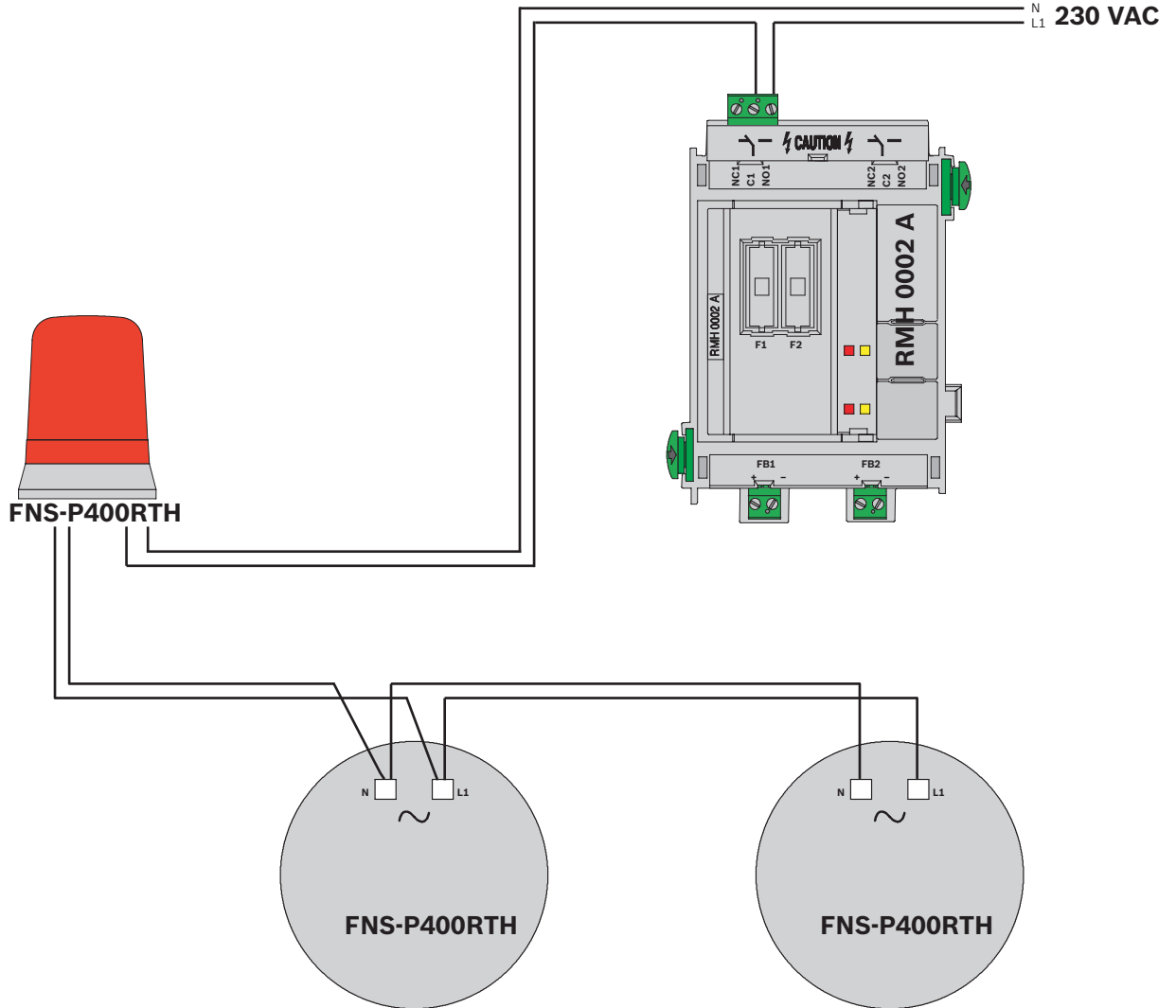
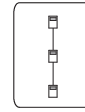
VdS 2496:2005-09





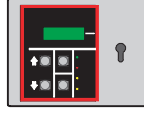
HPW 11



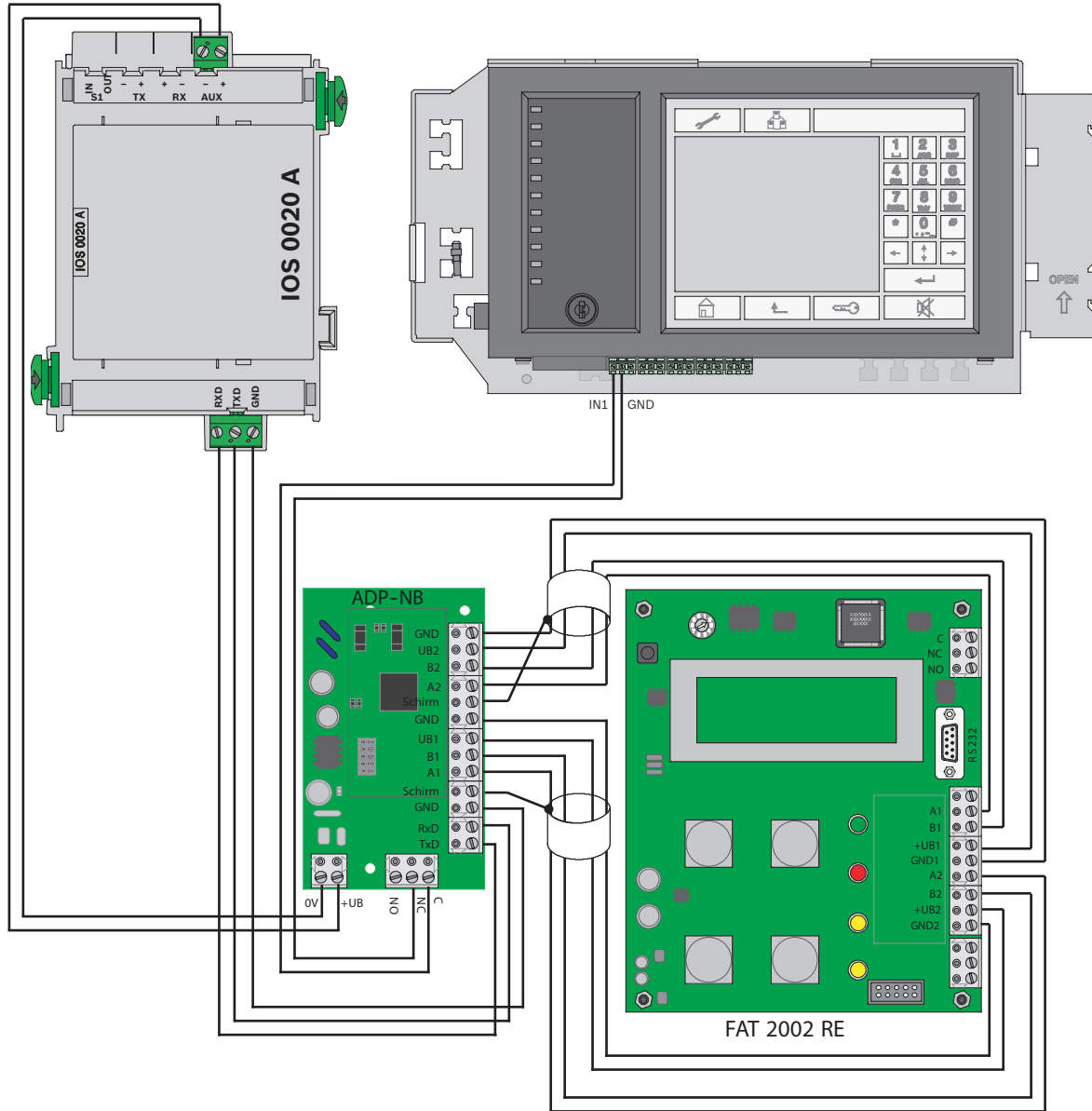
**FNS-P400RTH**

3.3.7

IOS 0020 A

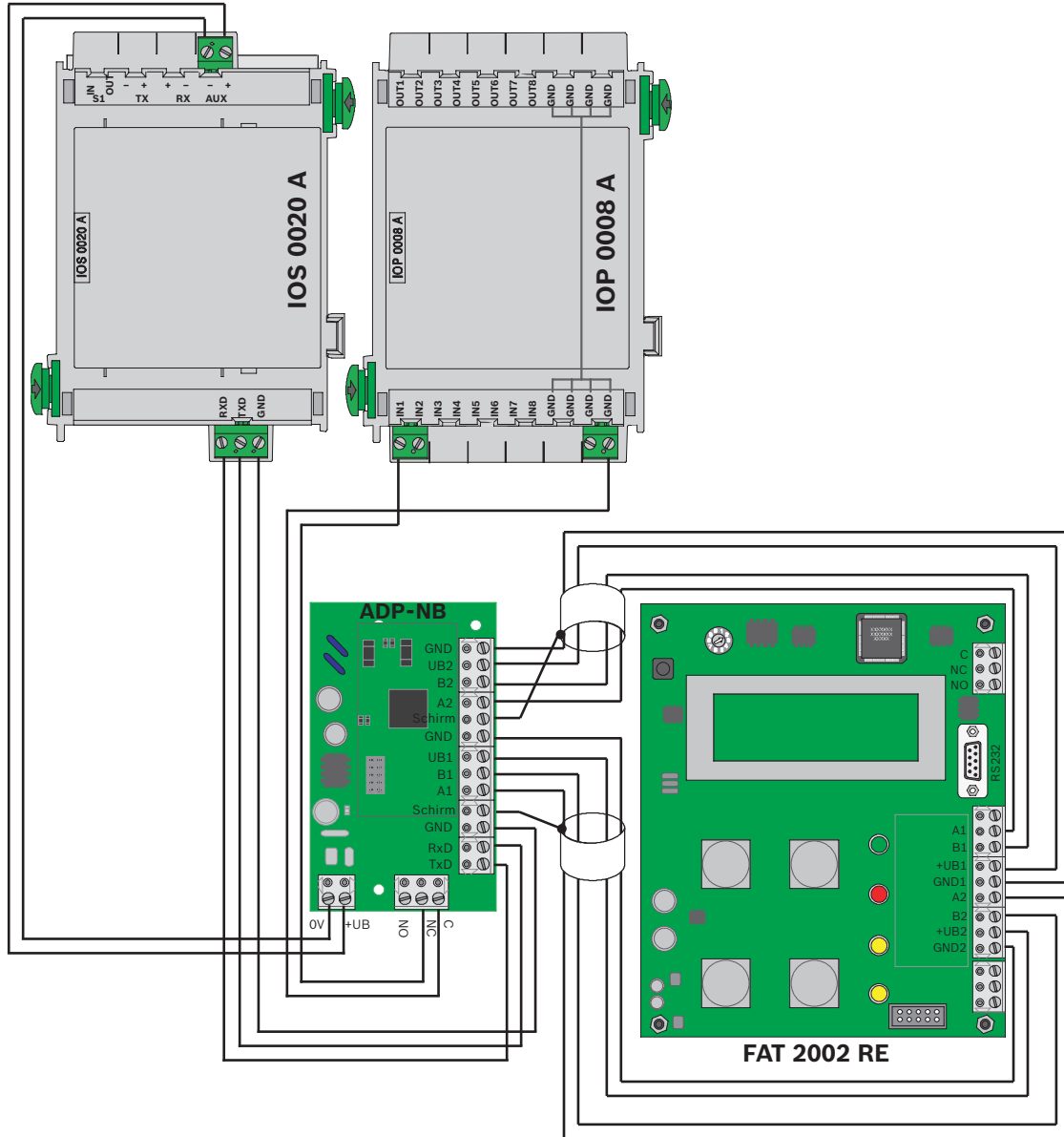


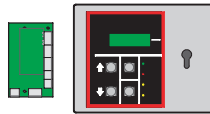
**FAT 2002 RE
ADP-NB**



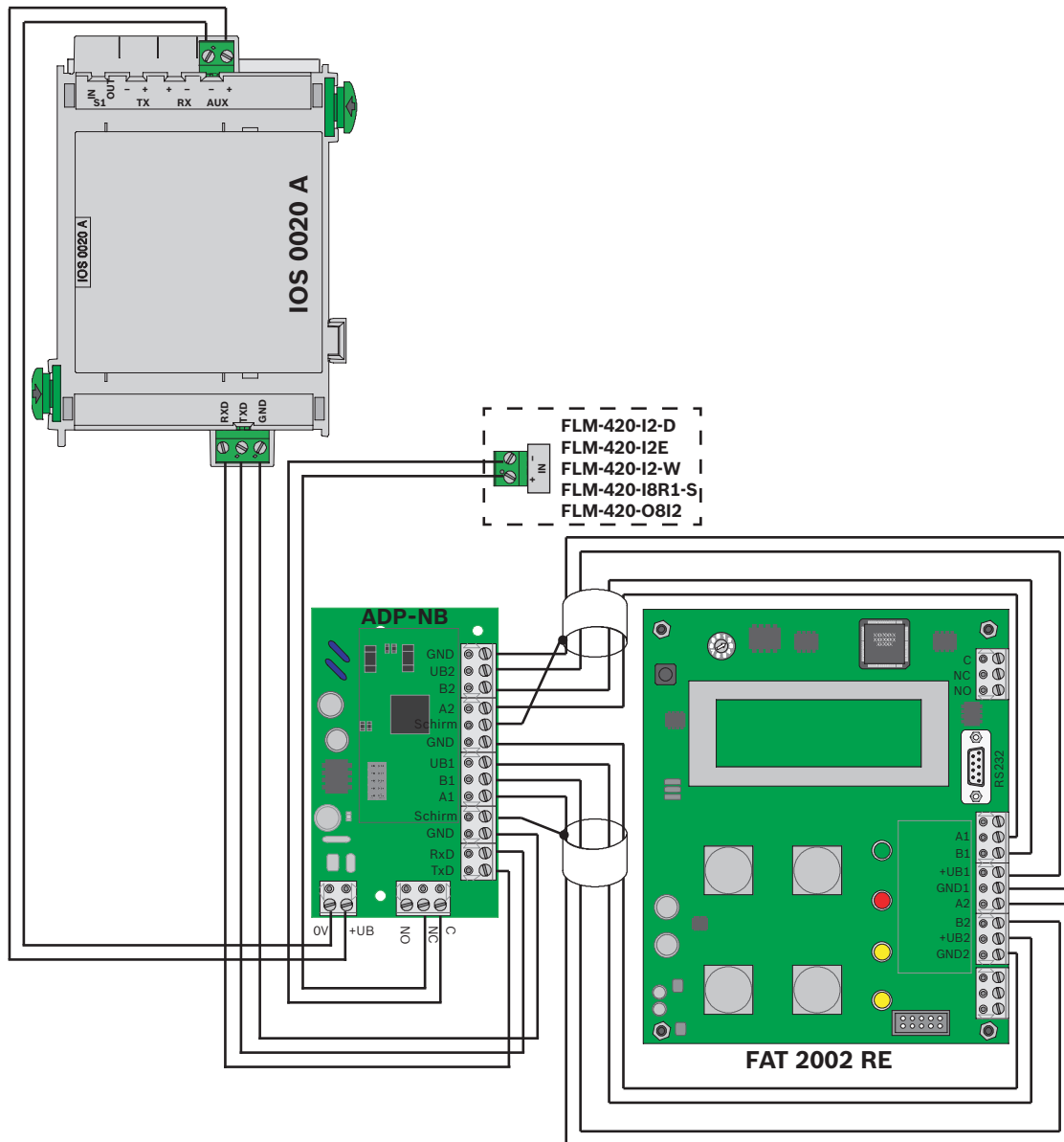


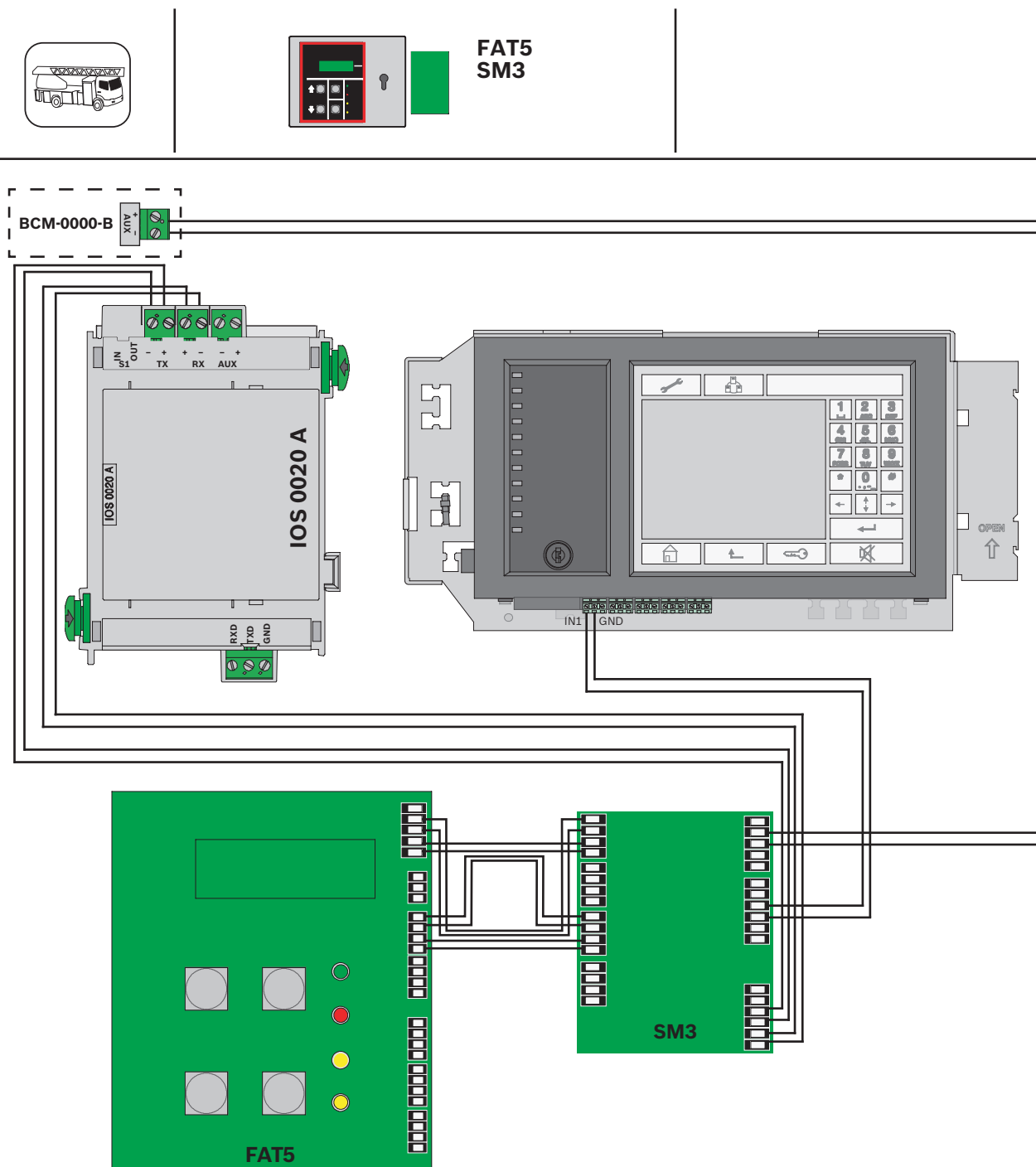
**FAT 2002 RE
ADP-NB**





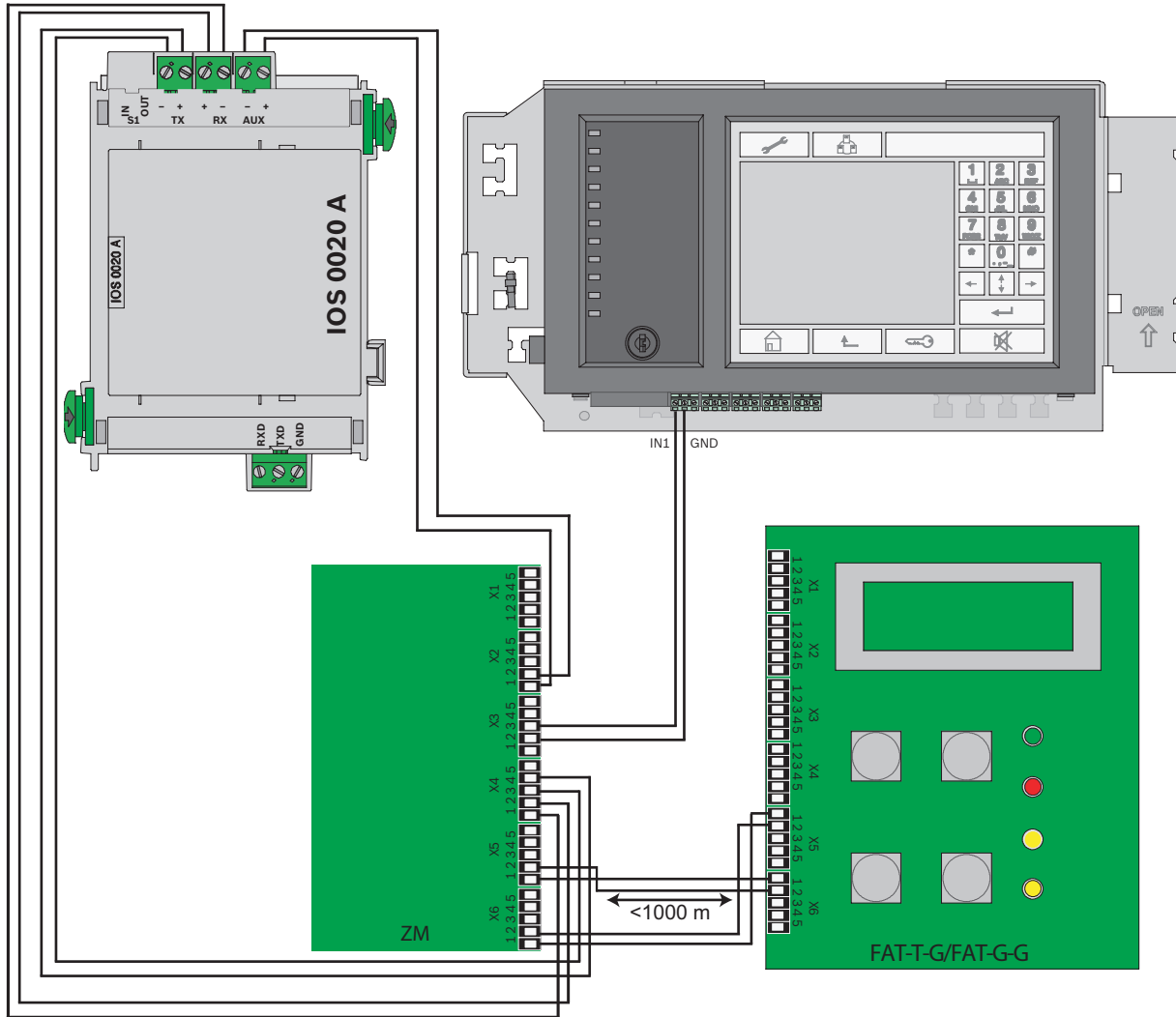
**FAT 2002 RE
ADP-NB**





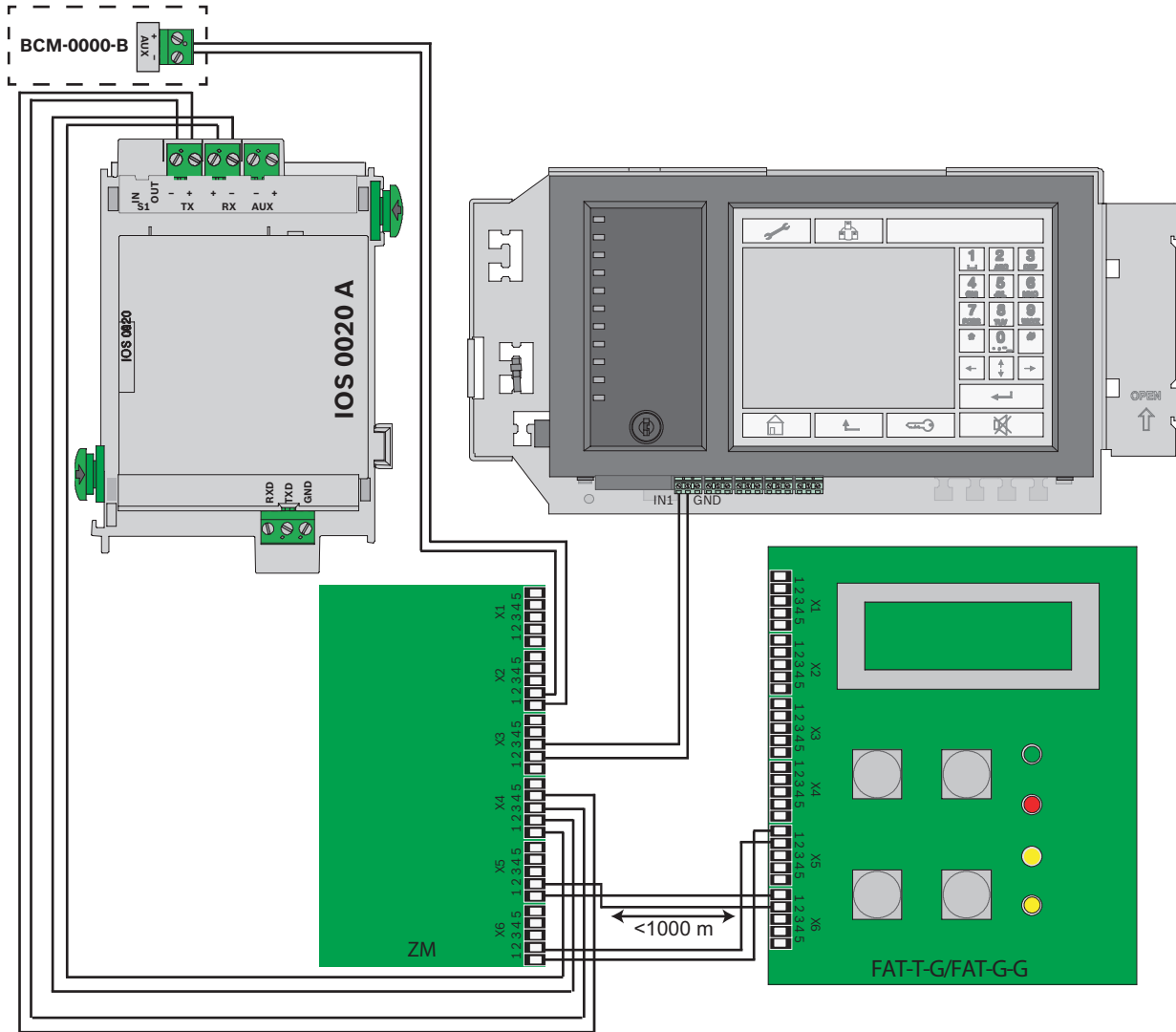


FAT-T-G/FAT-G-G
ZM



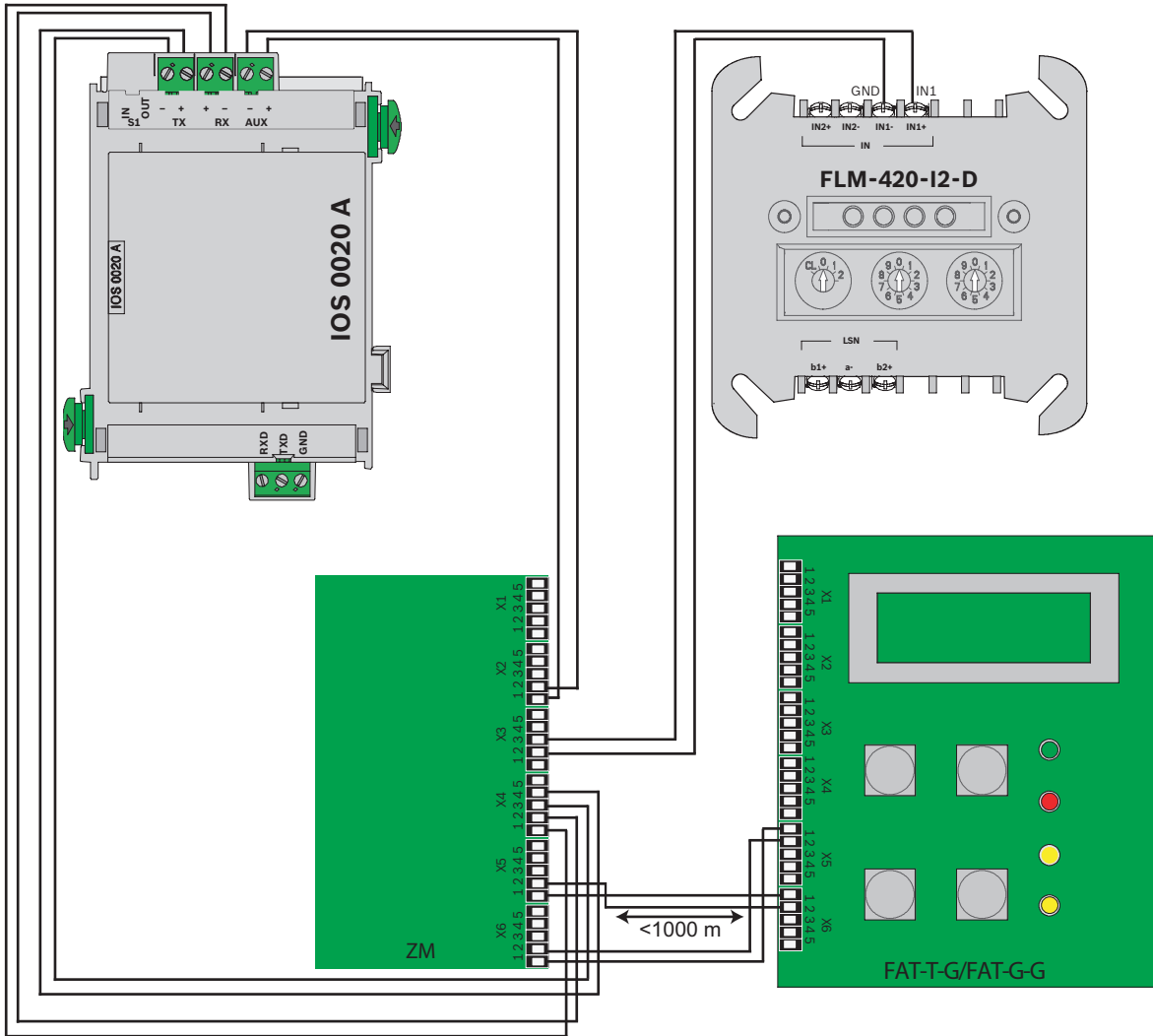


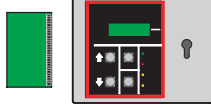
FAT-T-G/FAT-G-G
ZM



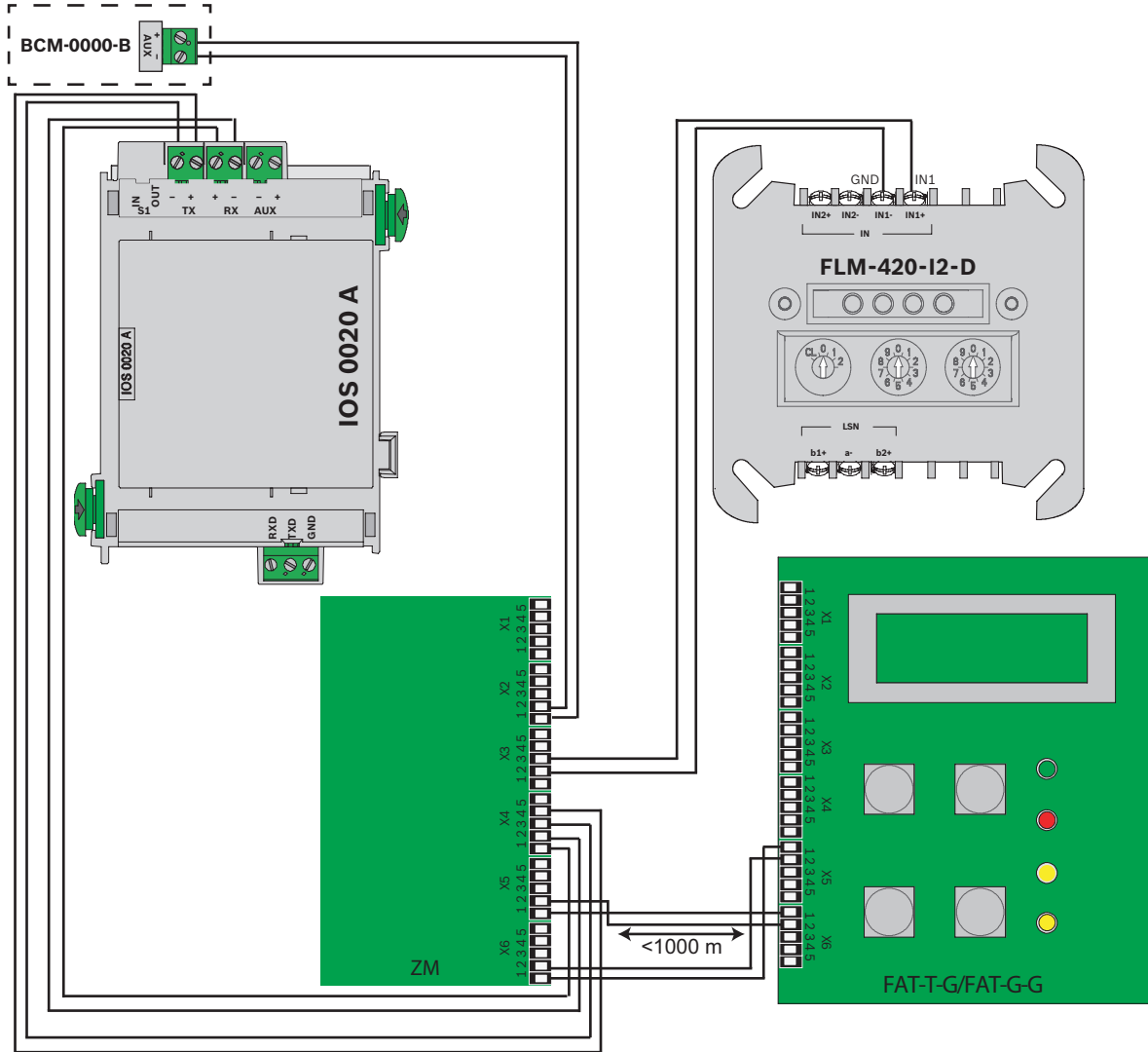


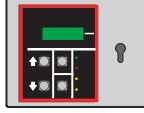
FAT-T-G/FAT-G-G
ZM



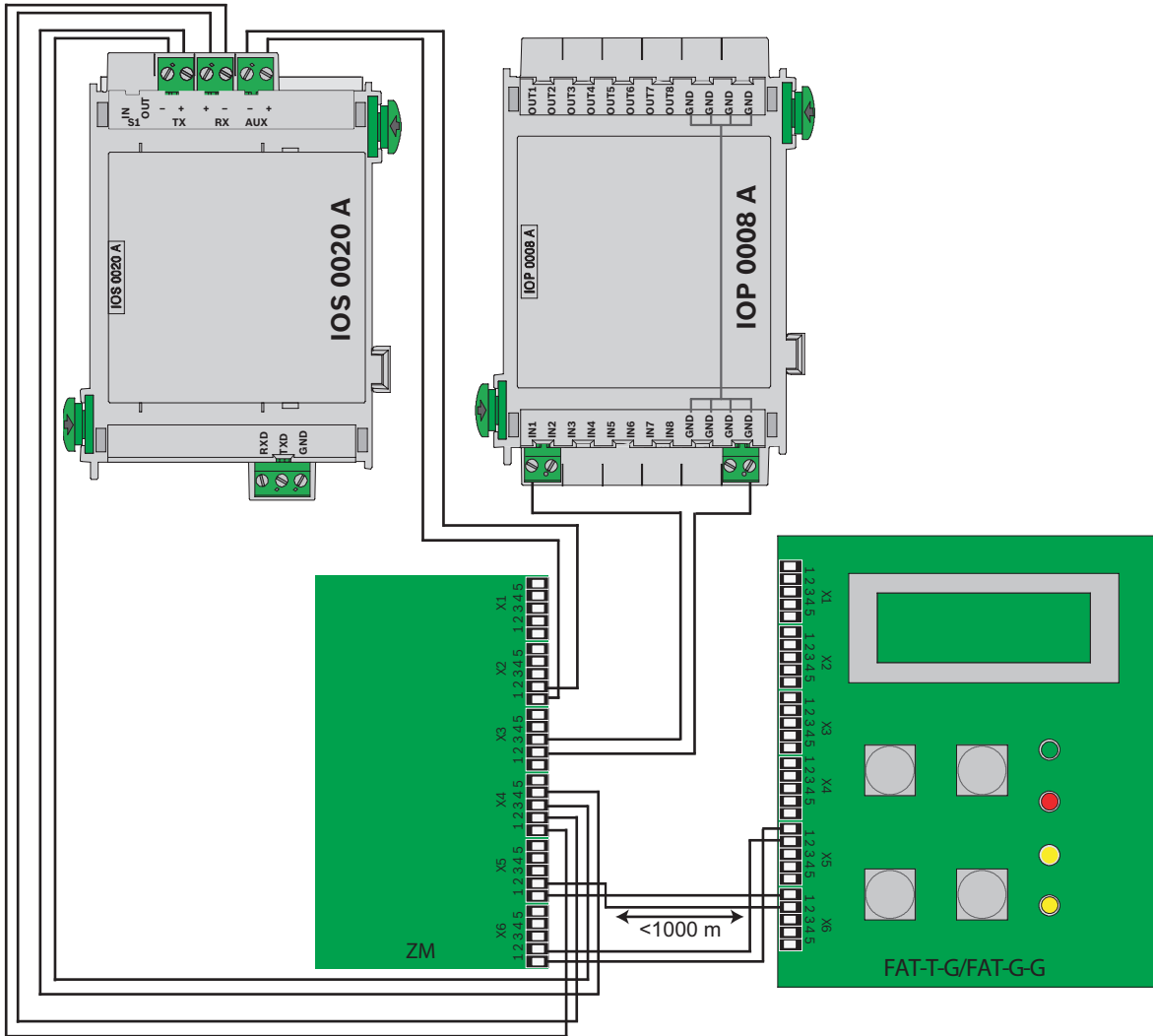


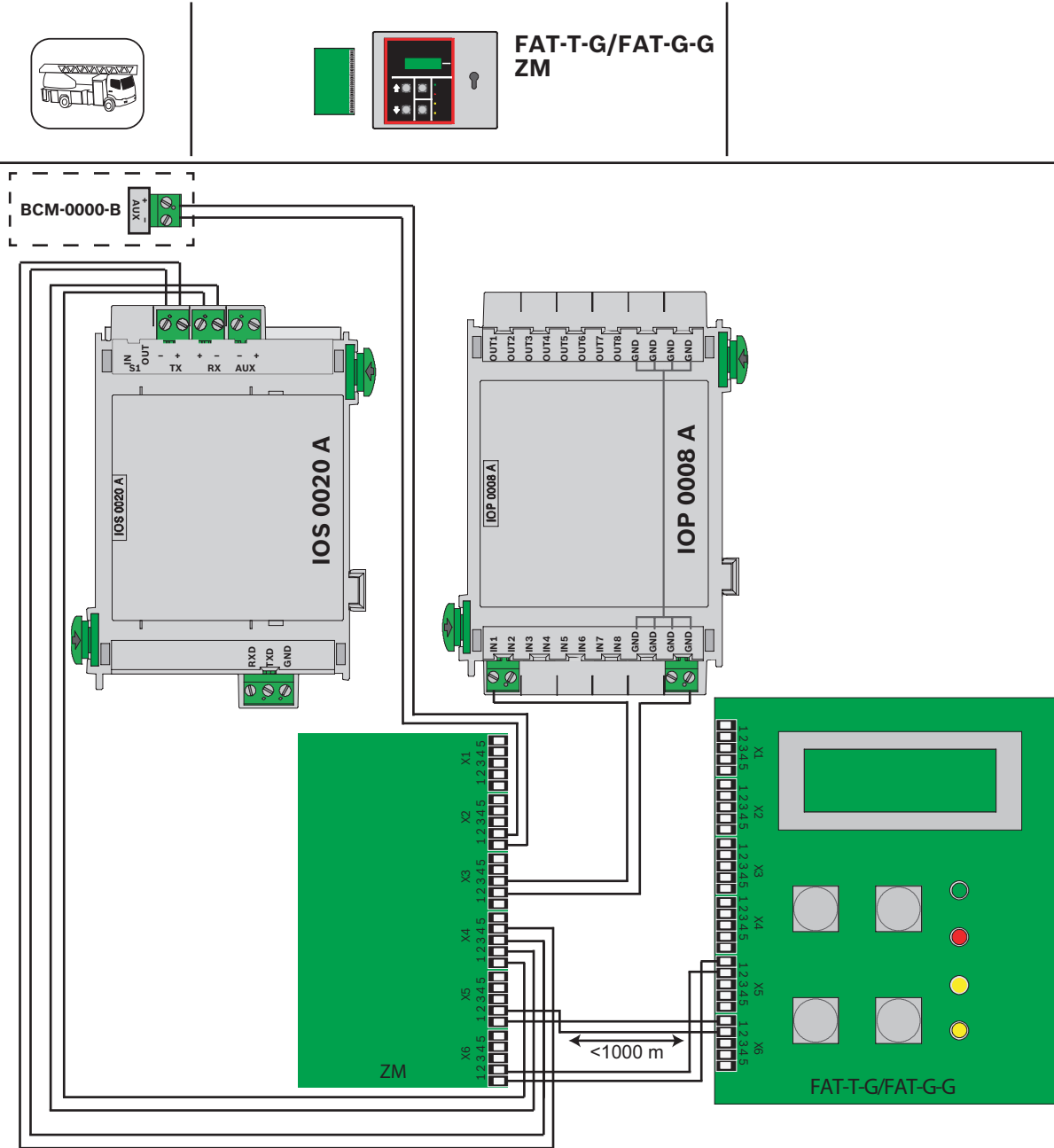
FAT-T-G/FAT-G-G
ZM





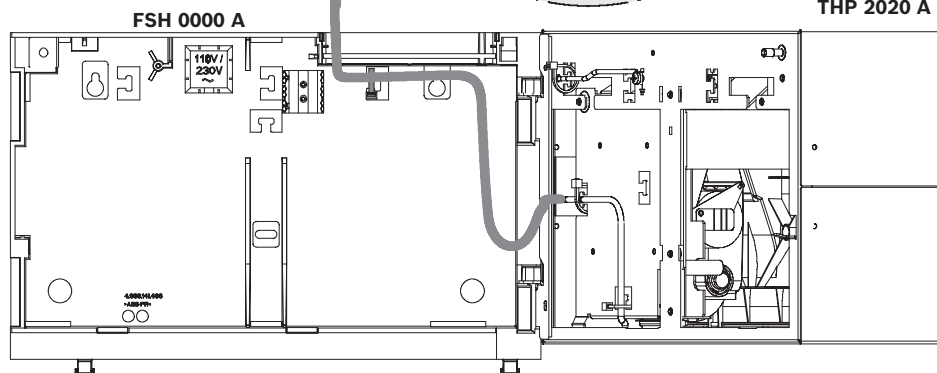
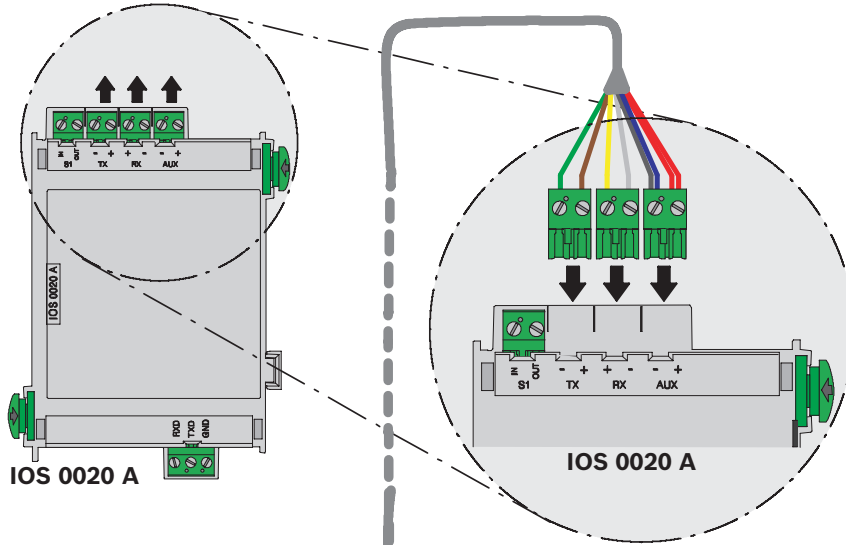
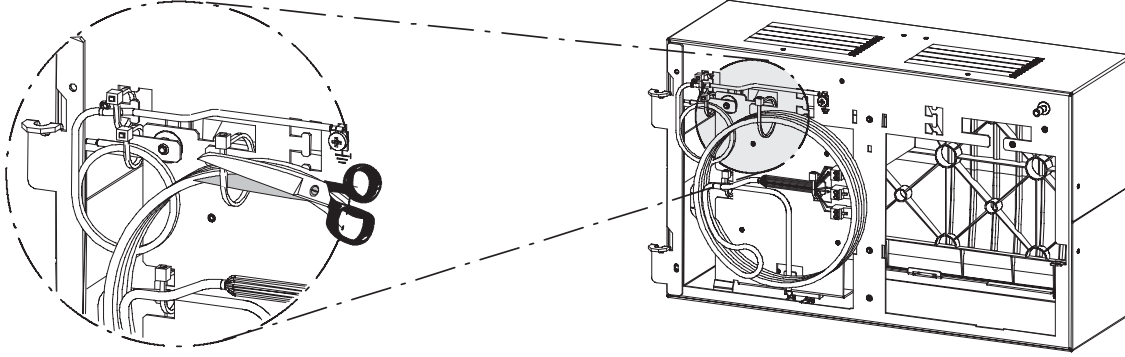
**FAT-T-G/FAT-G-G
ZM**

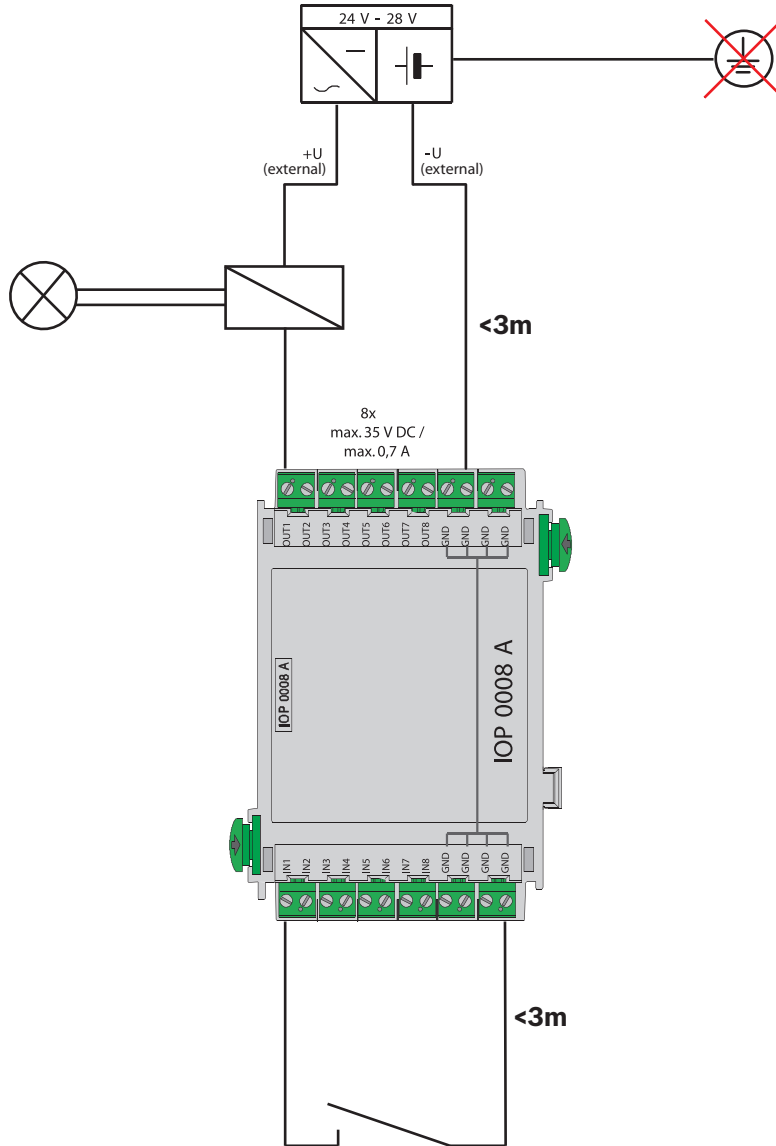
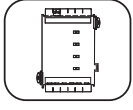






THP 2020 A



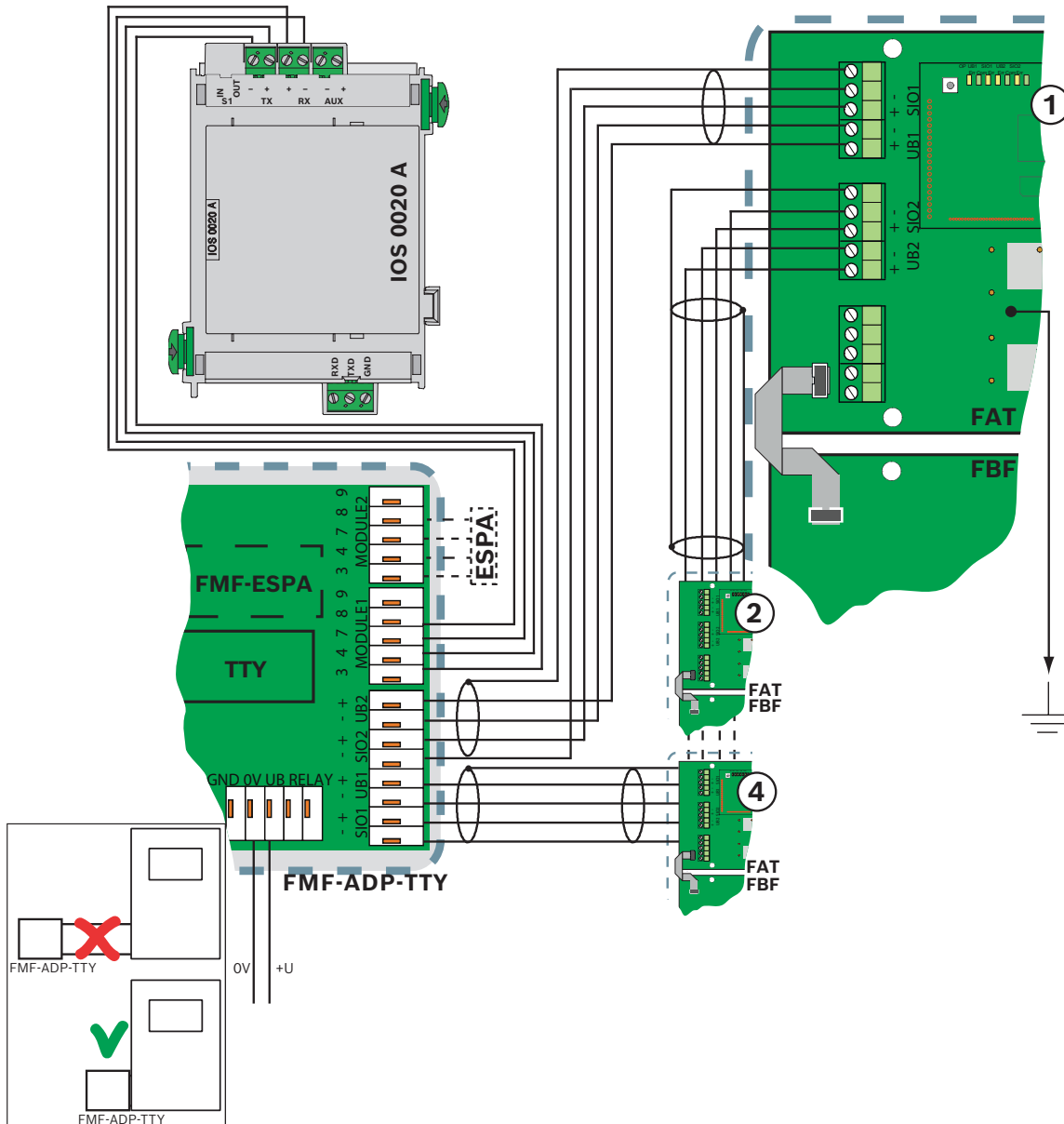




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FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS VdS 2489

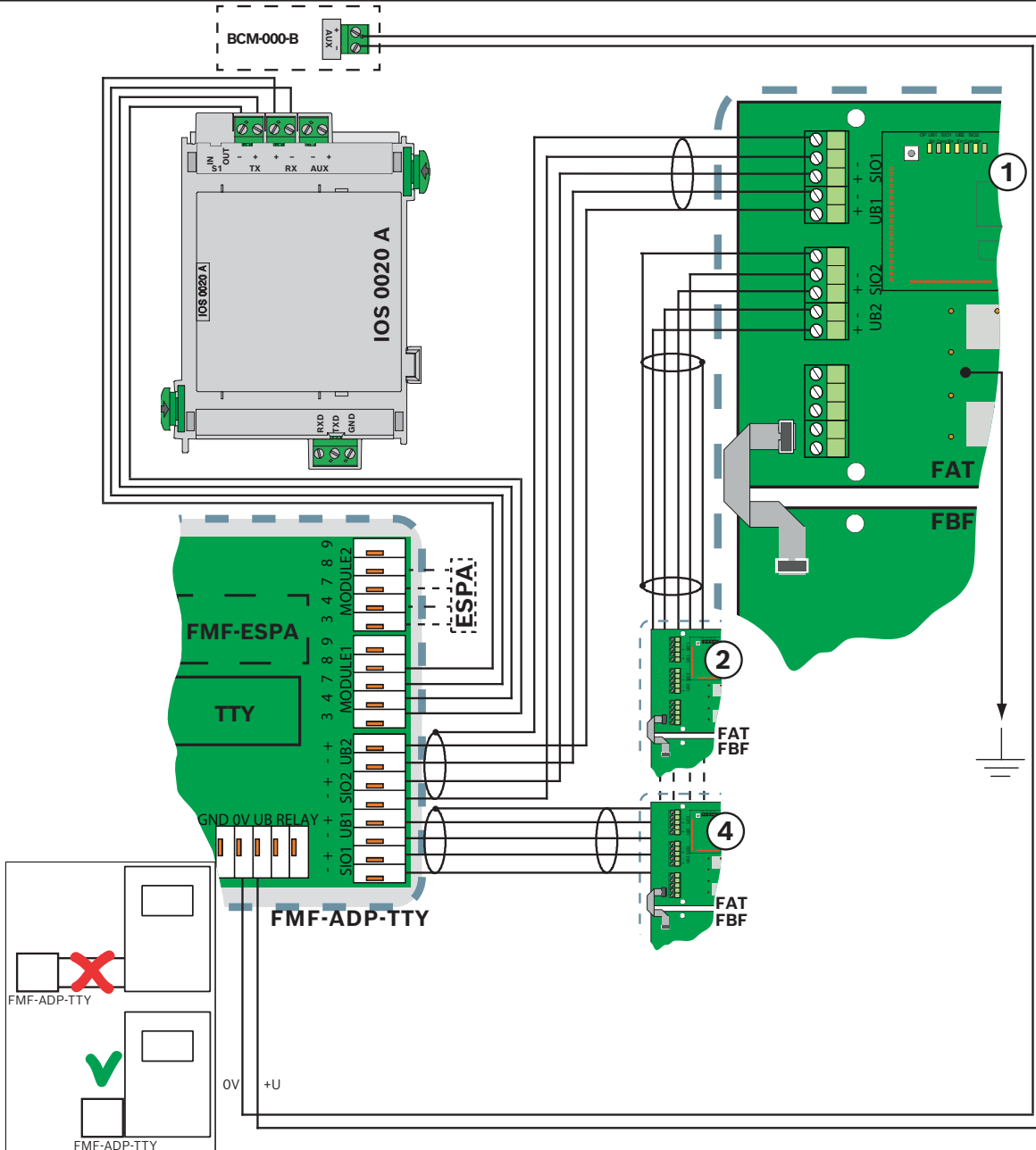




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



3.3.8

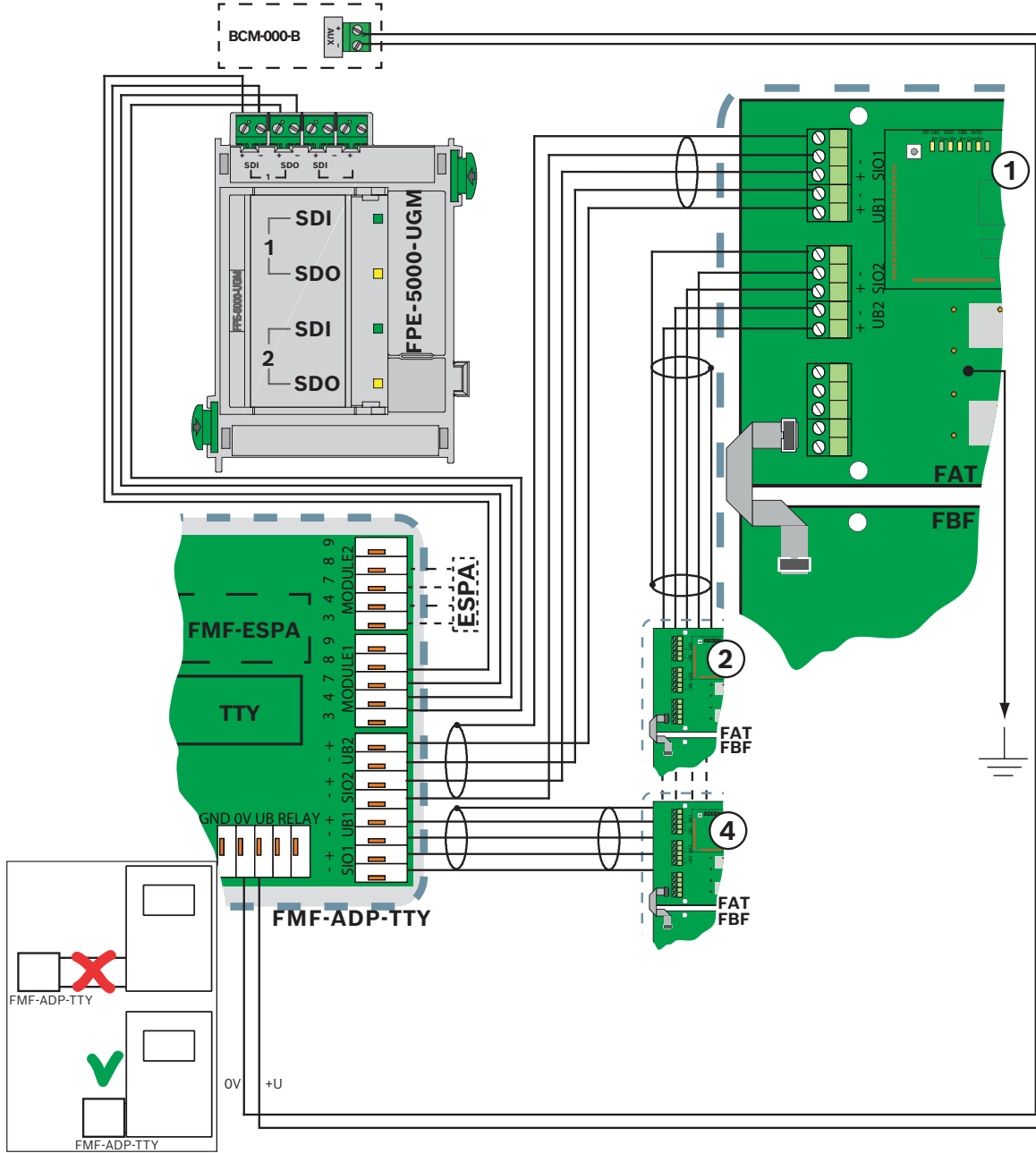
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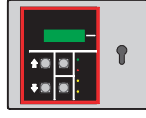


FAT4000 FBF4000 ADP4000

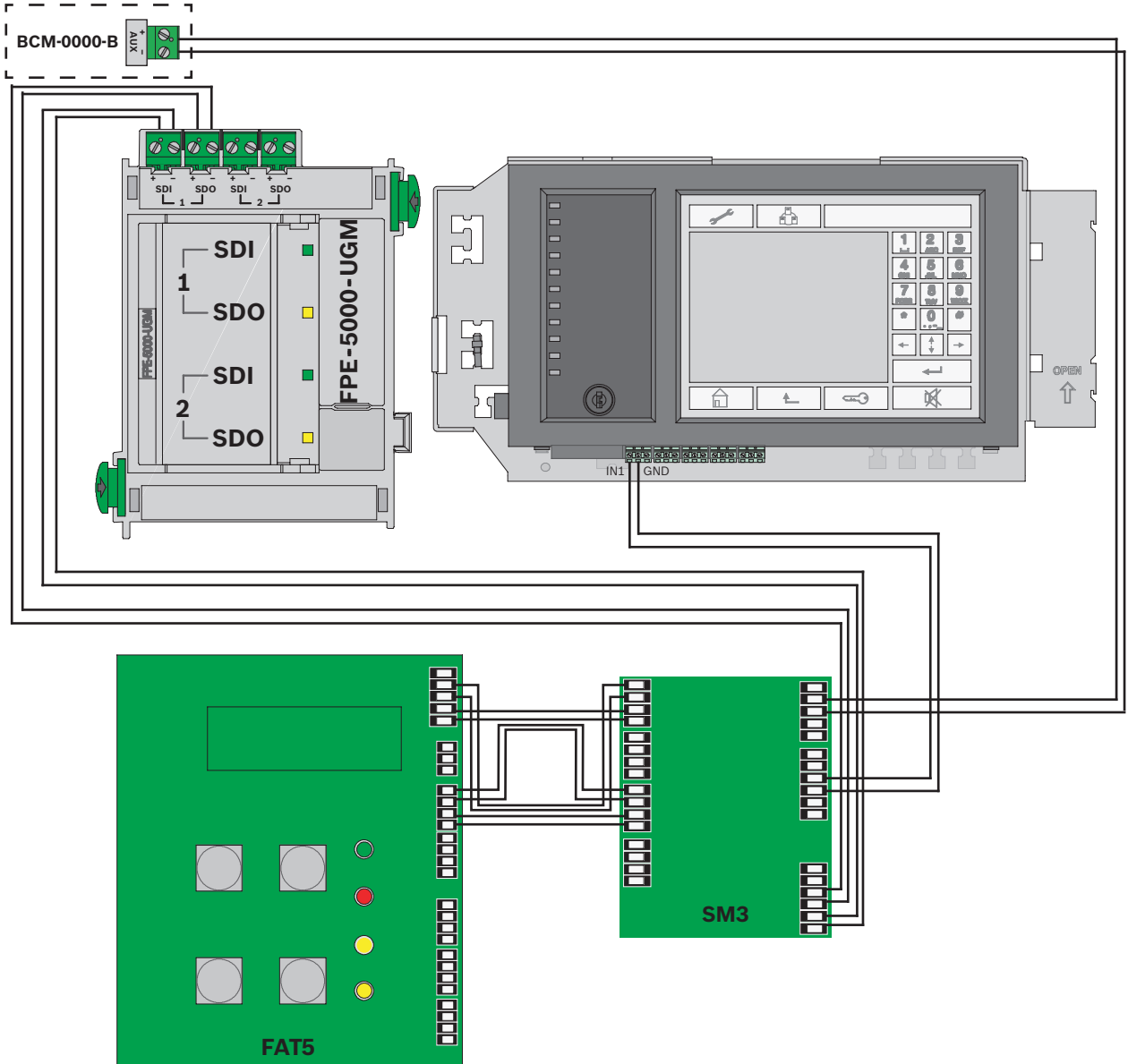
FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS VdS 2489



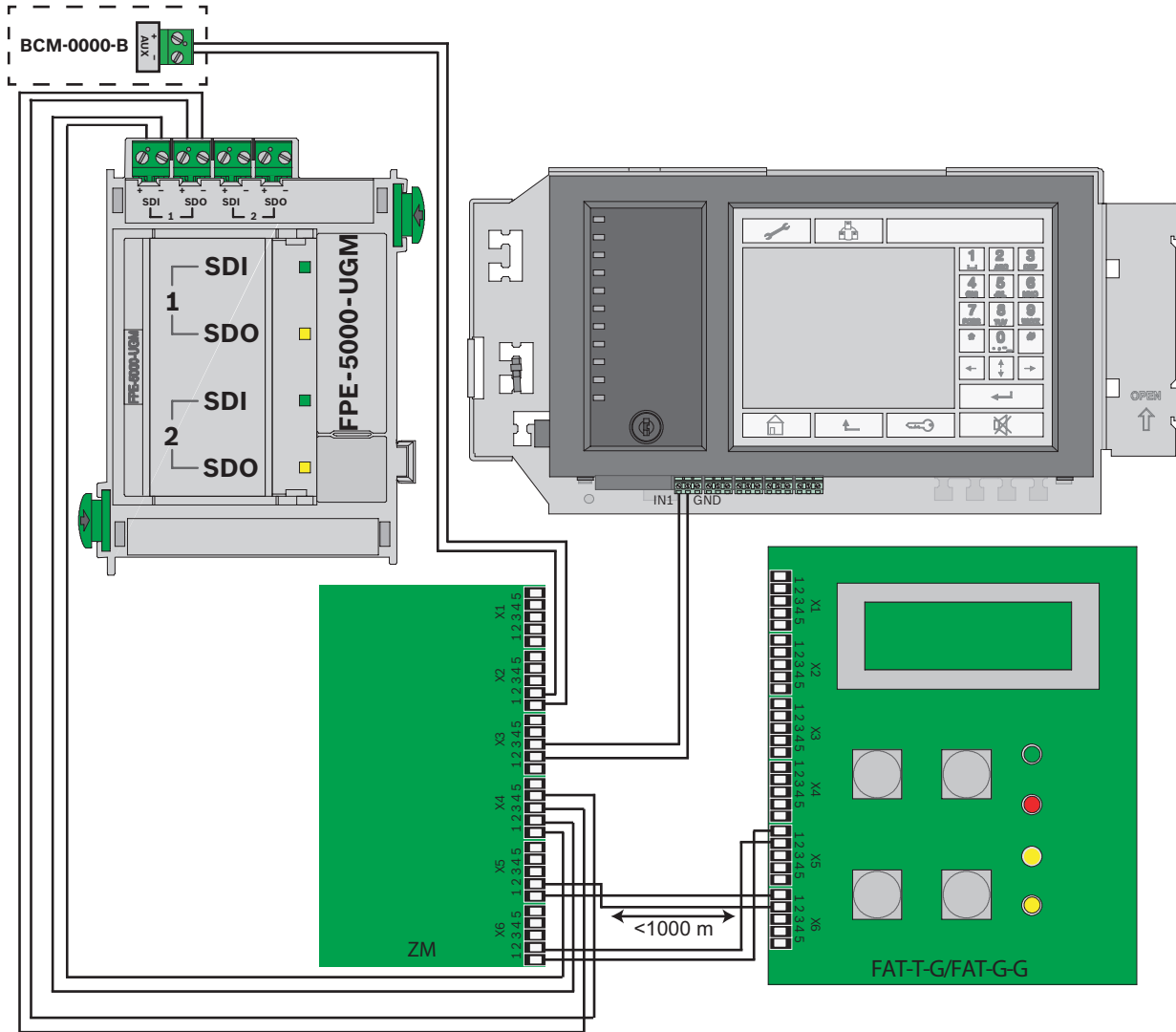


FAT5
SM3



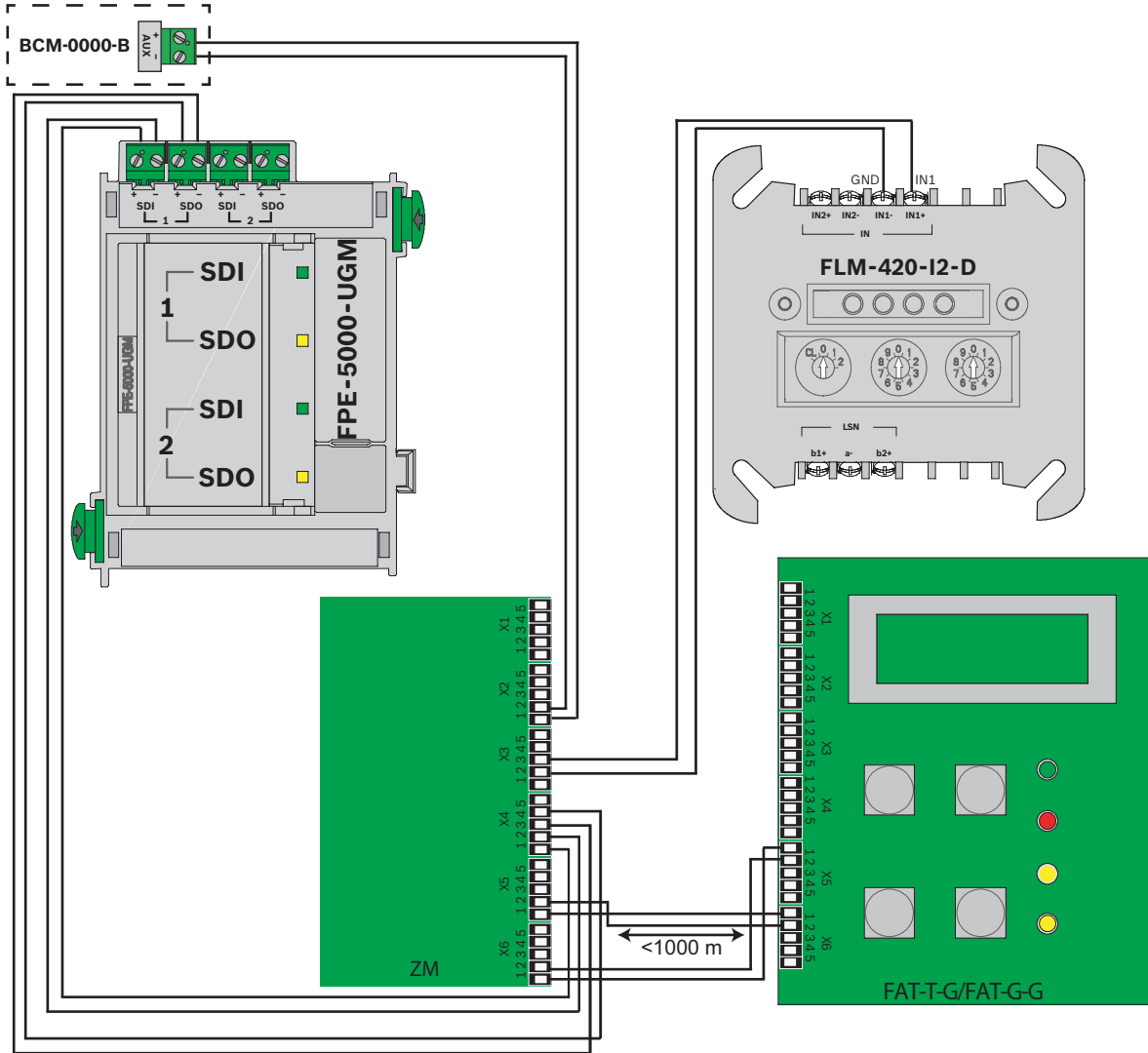


FAT-T-G/FAT-G-G
ZM



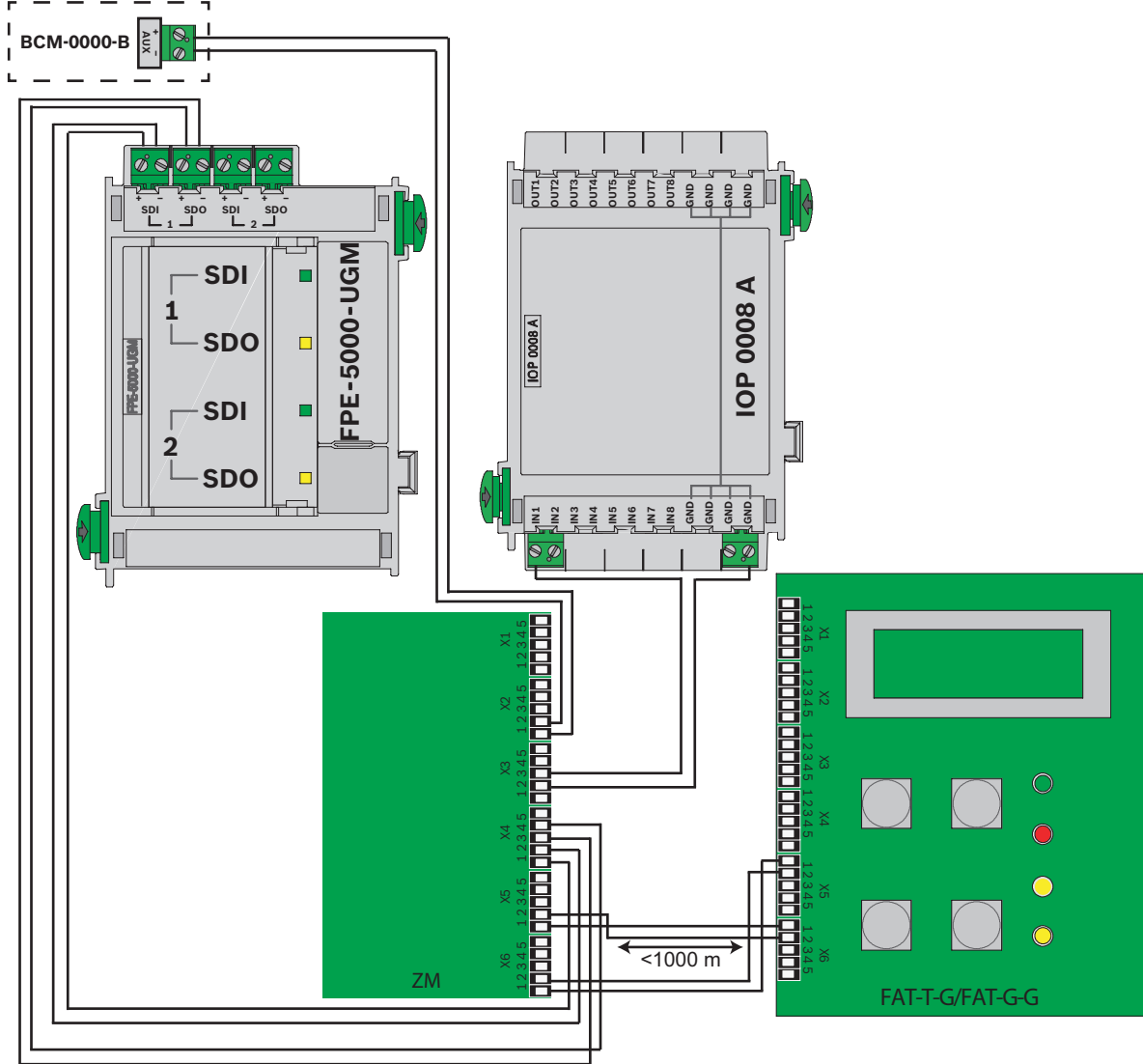


FAT-T-G/FAT-G-G
ZM





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



3.4

Arayüz modülleri



FLM-420/4-CON-D/S, sayfa 137

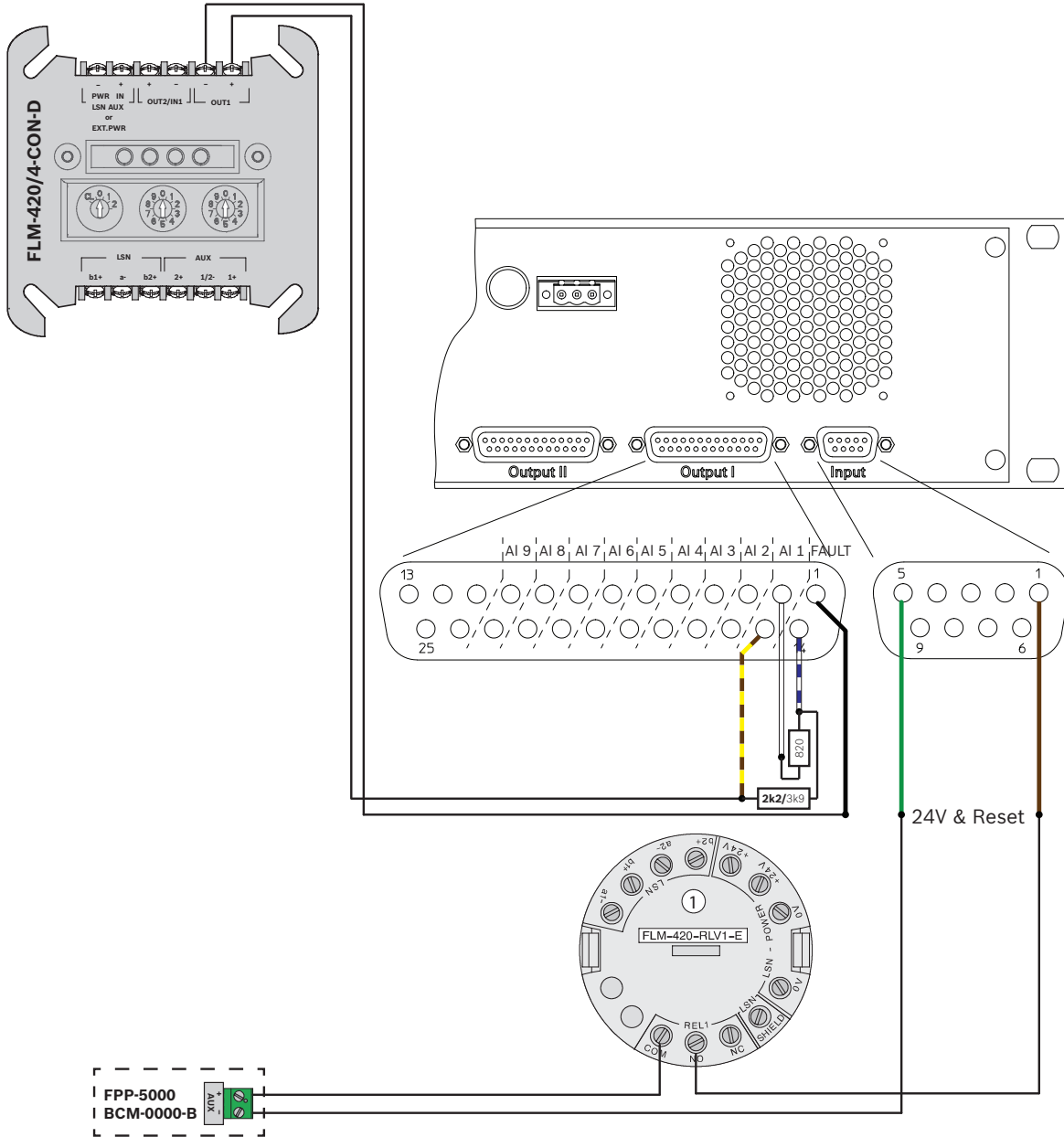
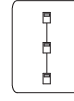
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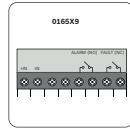
FLM-420-RLE-S, sayfa 175

FLM-420-RLV1-E, sayfa 176

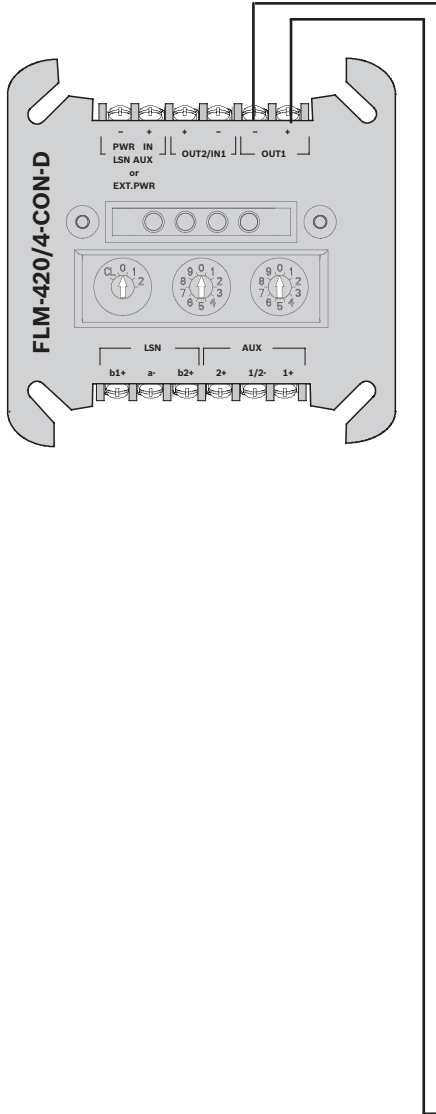
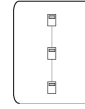
FLM-420-RLV8-S, sayfa 177

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

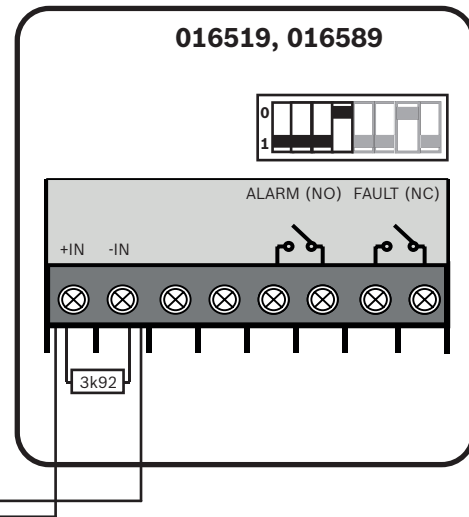


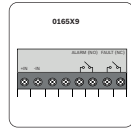


016519, 016589
IR3 Flame Detector

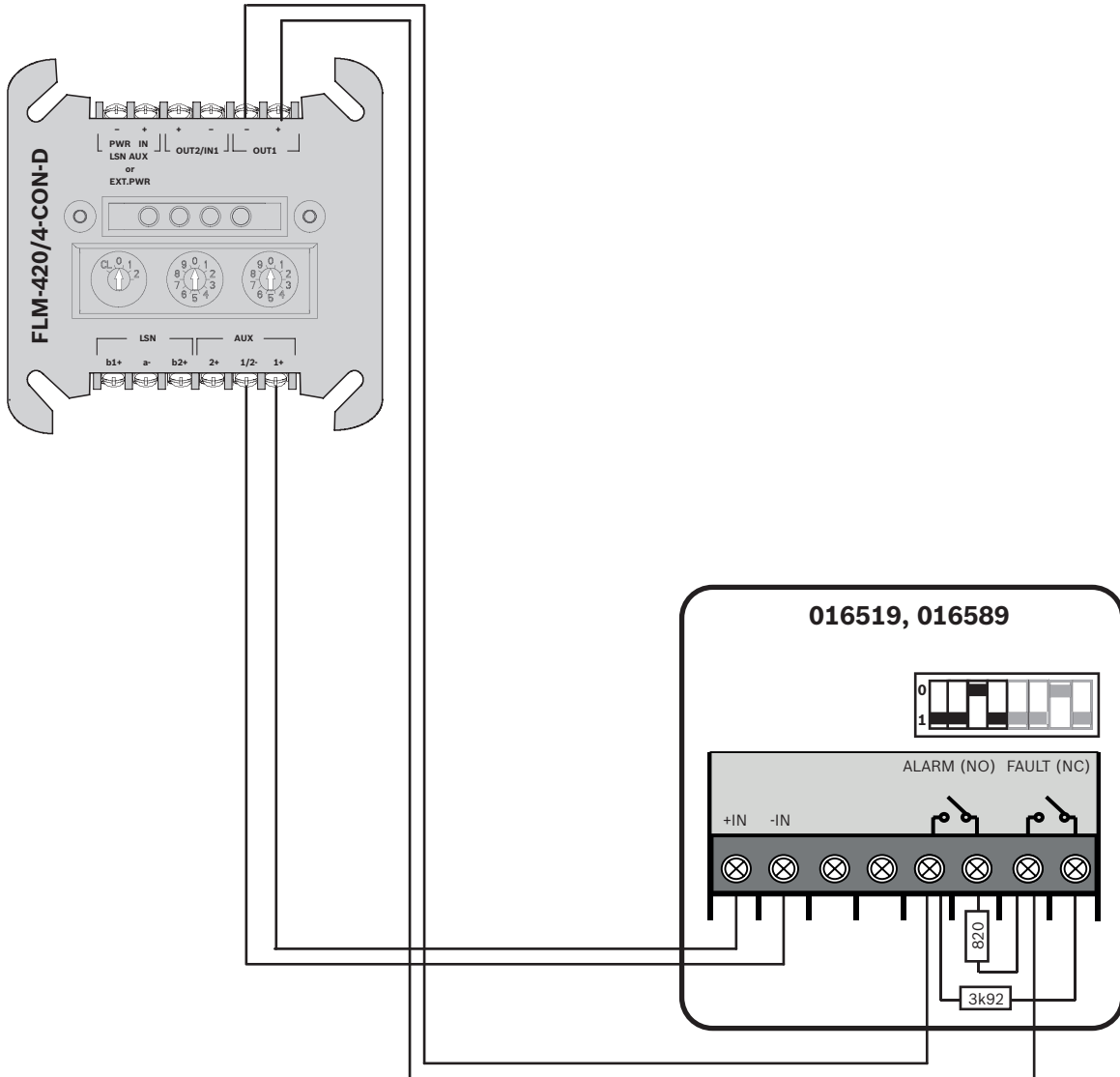
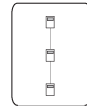


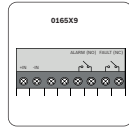
max. 1 x 0165X9



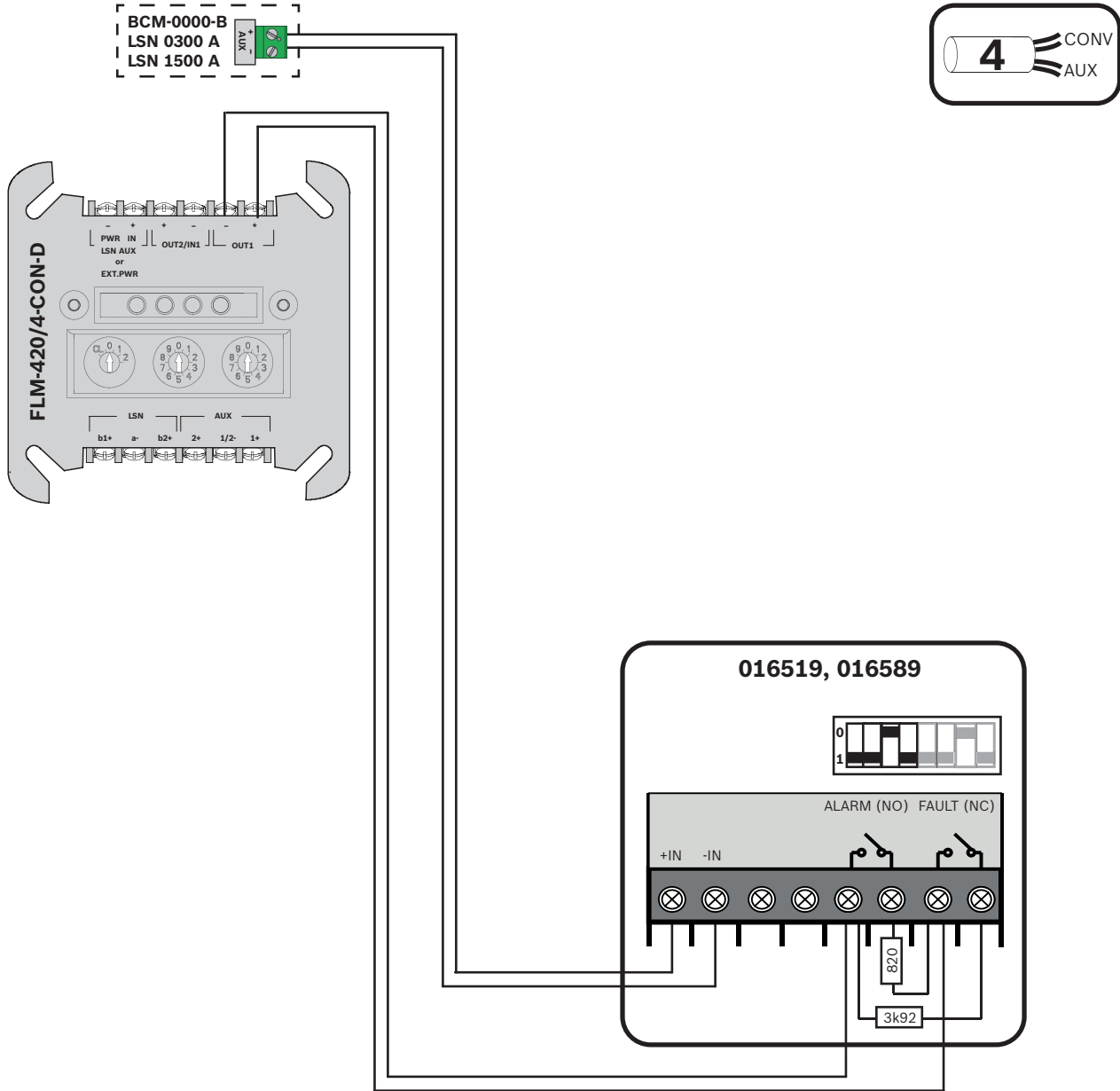
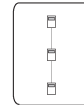


016519, 016589 IR3 Flame Detector



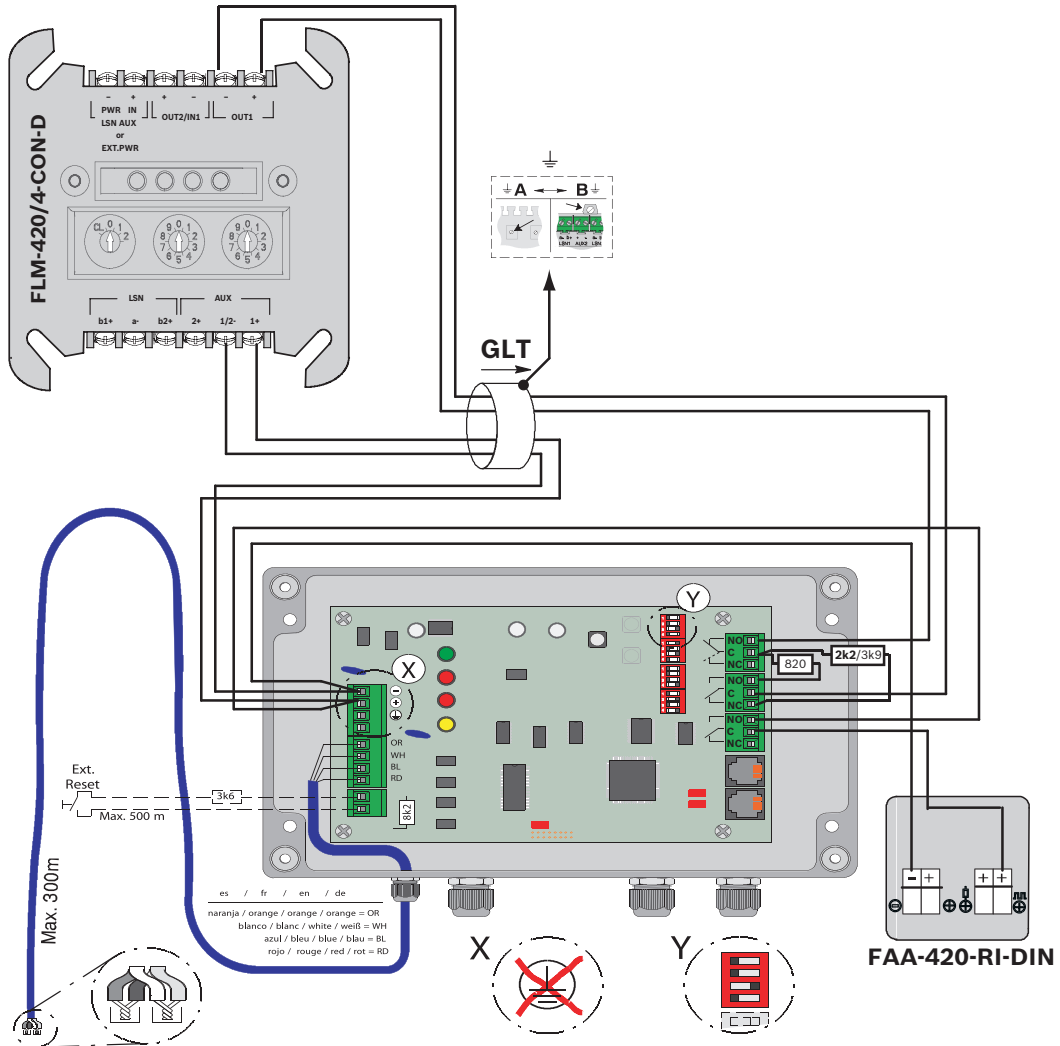
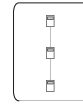


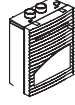
016519, 016589
IR3 Flame Detector



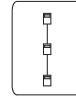


FCS-LWM-1

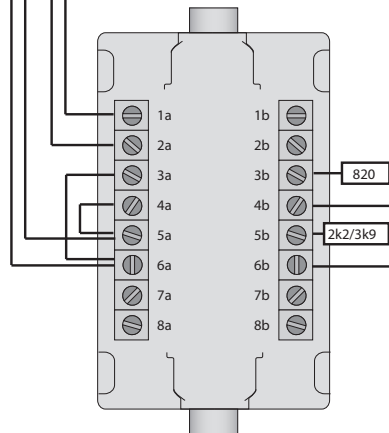
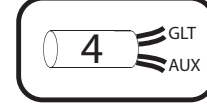
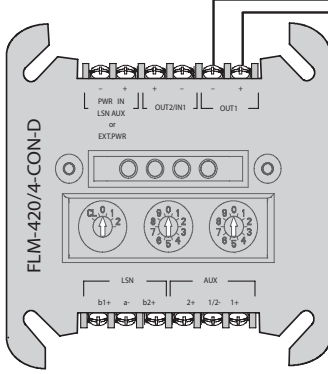


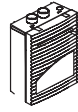


FCS-320-TM Series

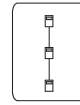


BCM-0000-B
LSN 0300 A
LSN 1500 A

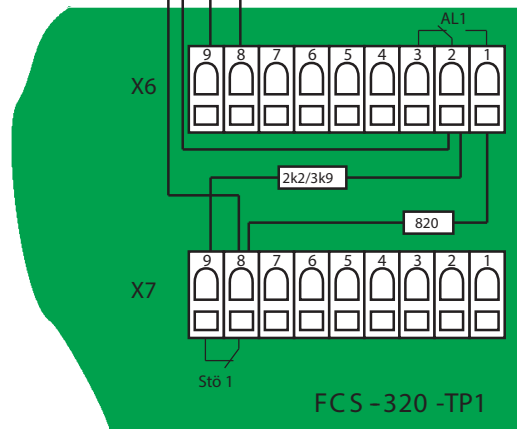
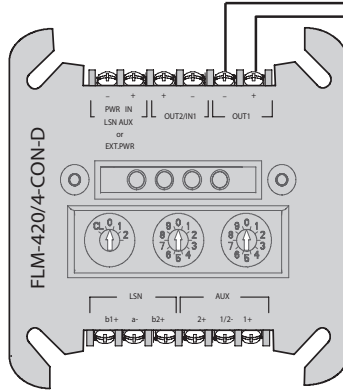
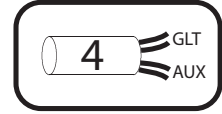


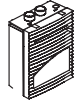


FCS-320-TP Series

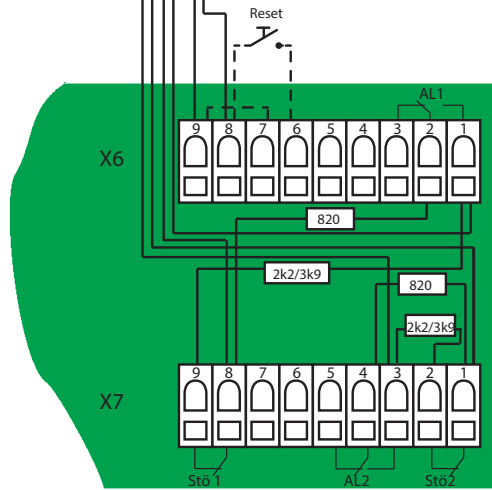
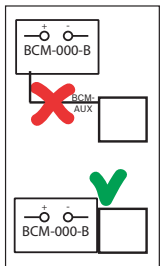
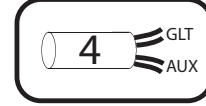
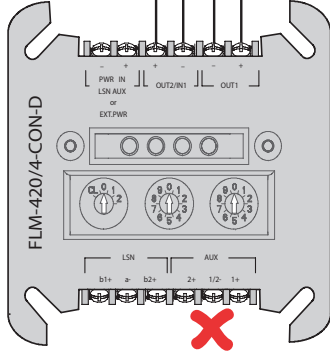
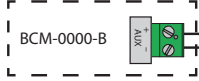
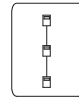


BCM-0000-B
LSN 0300 A
LSN 1500 A

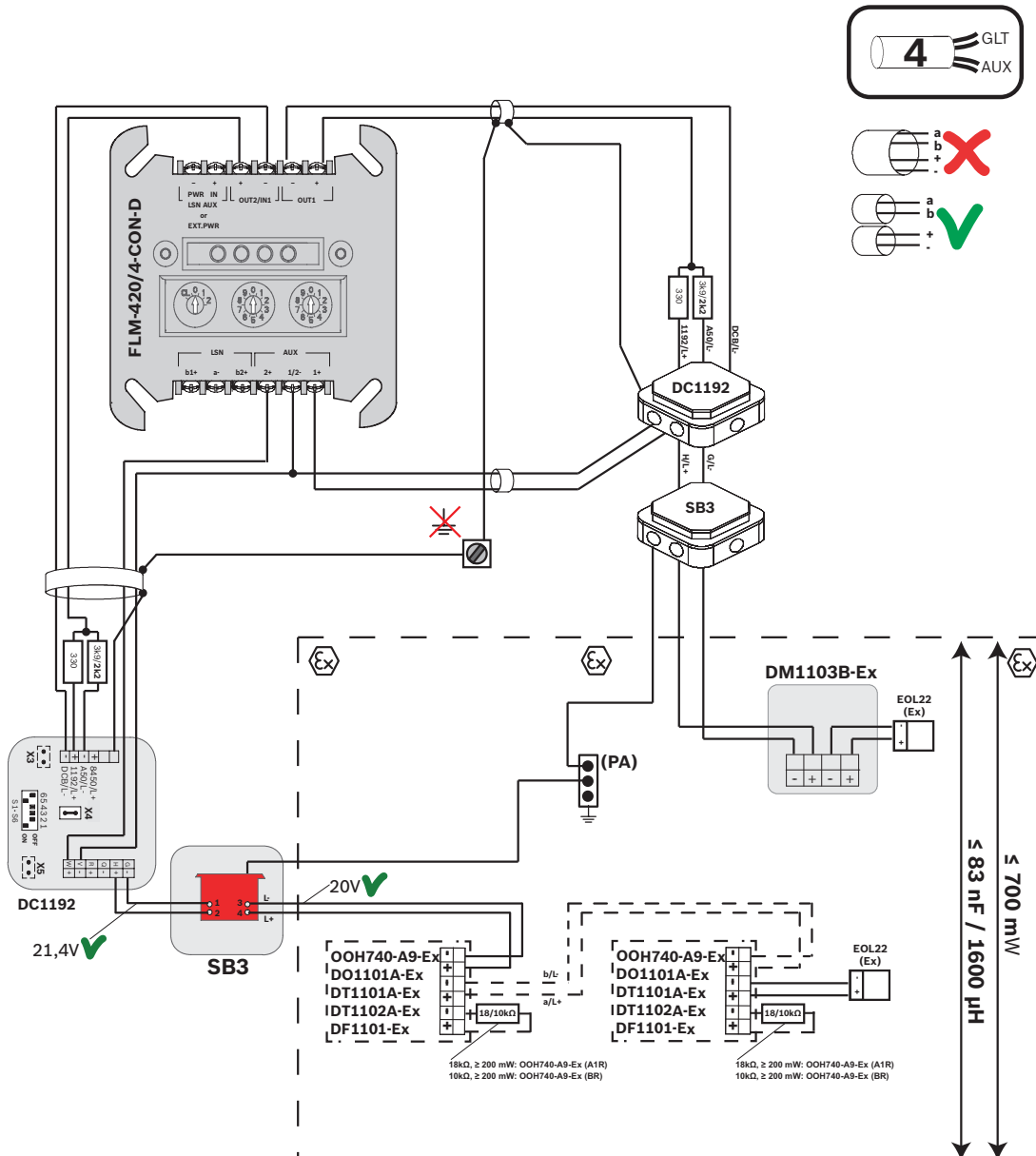
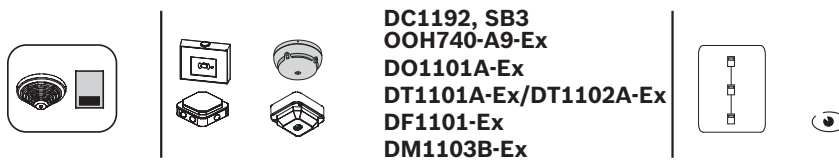


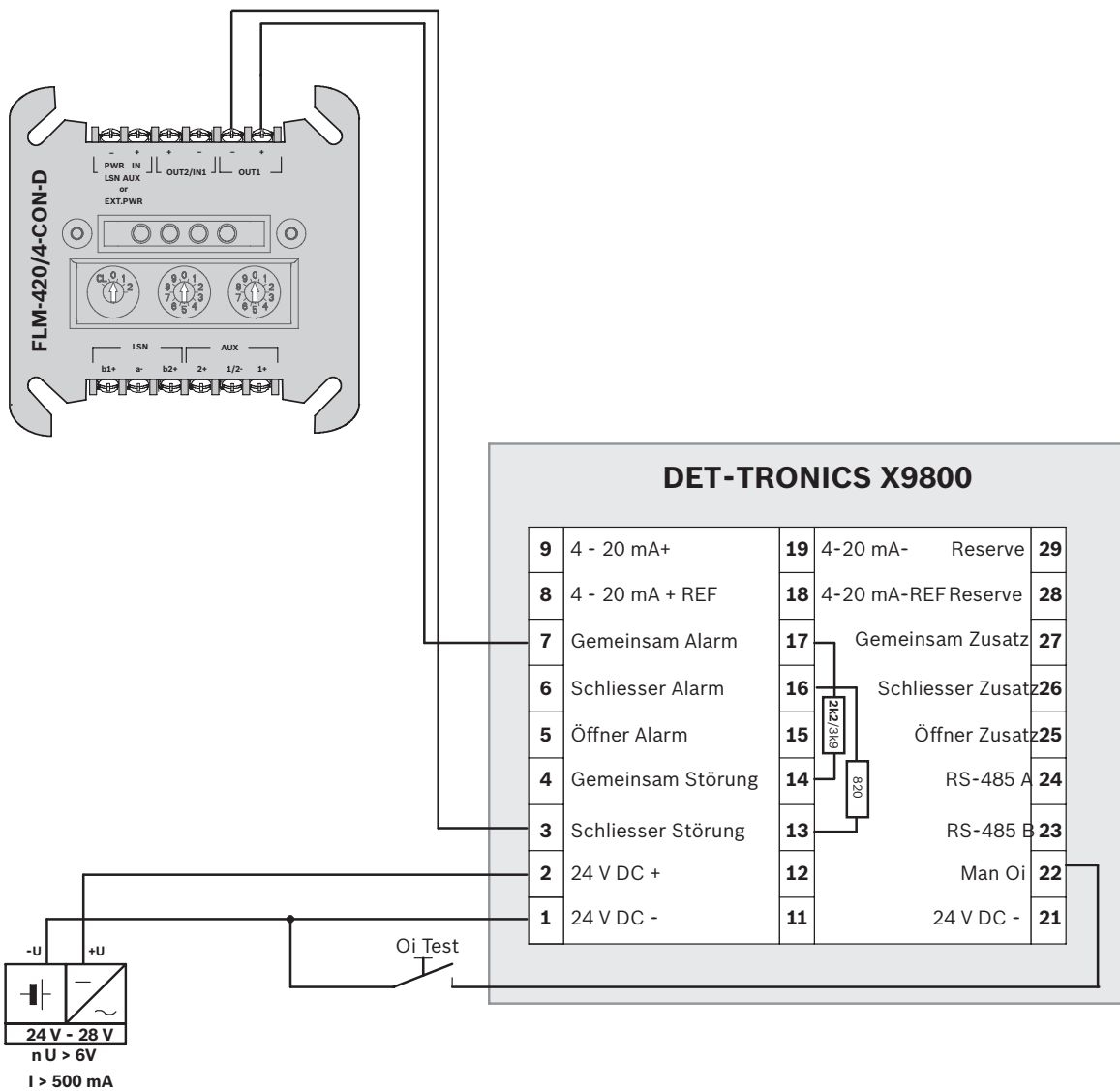
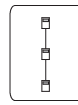


FCS-320-TP Series



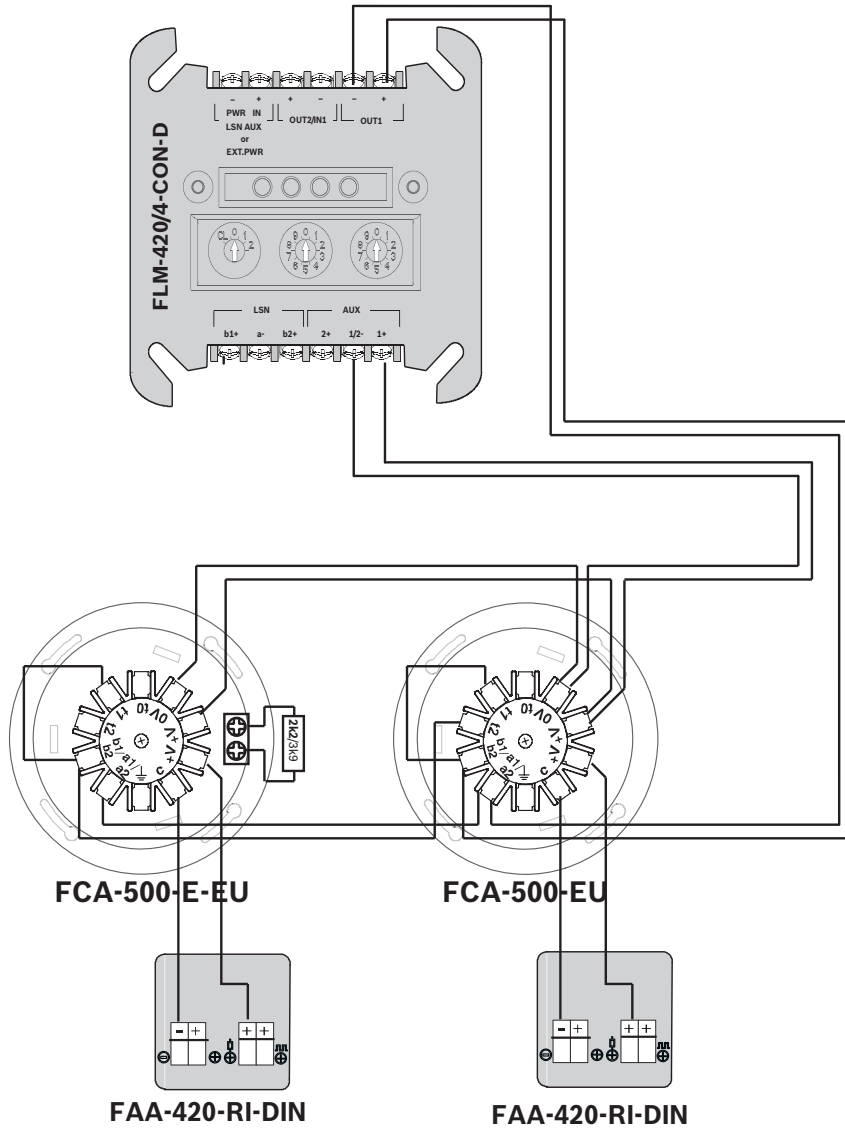
FCS - 320 -TP2



**DET-TRONICS X9800**

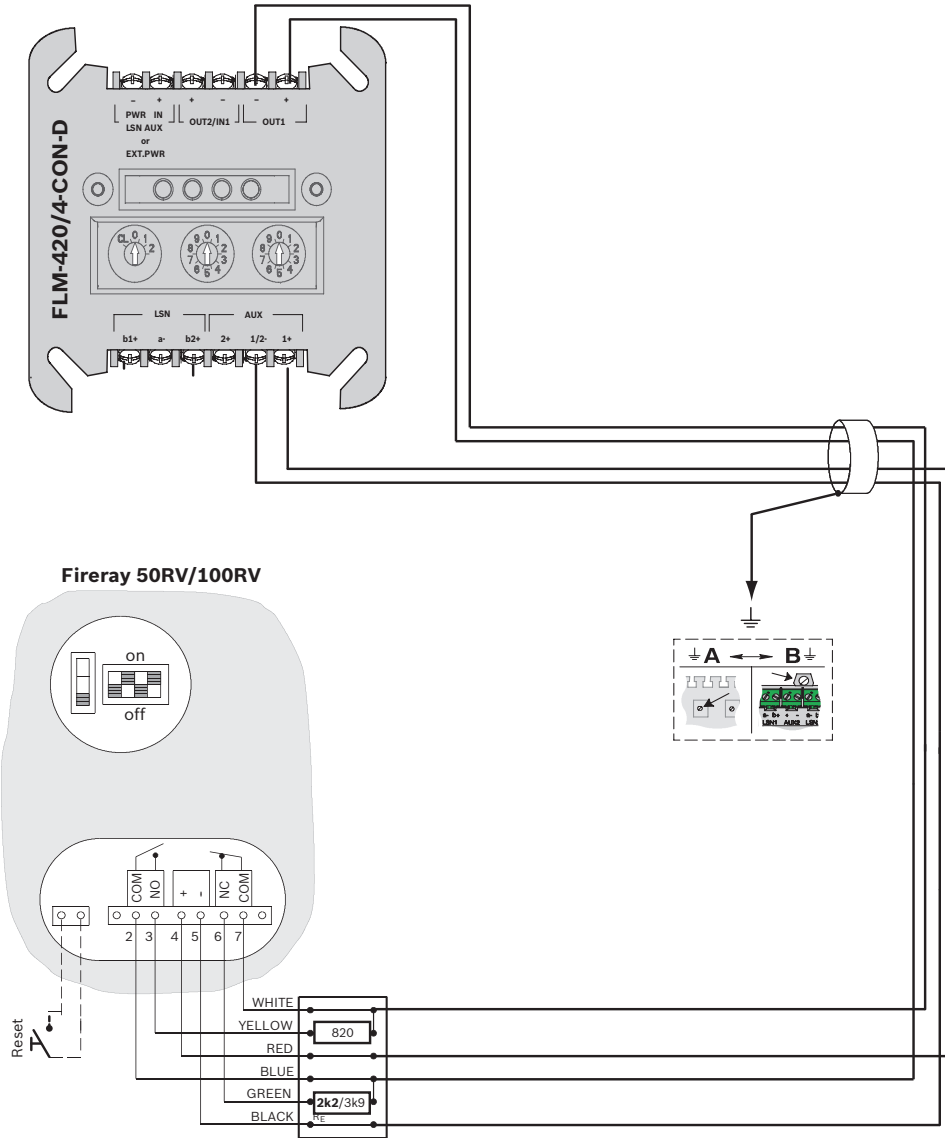
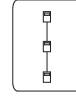


FCP-500





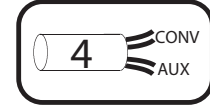
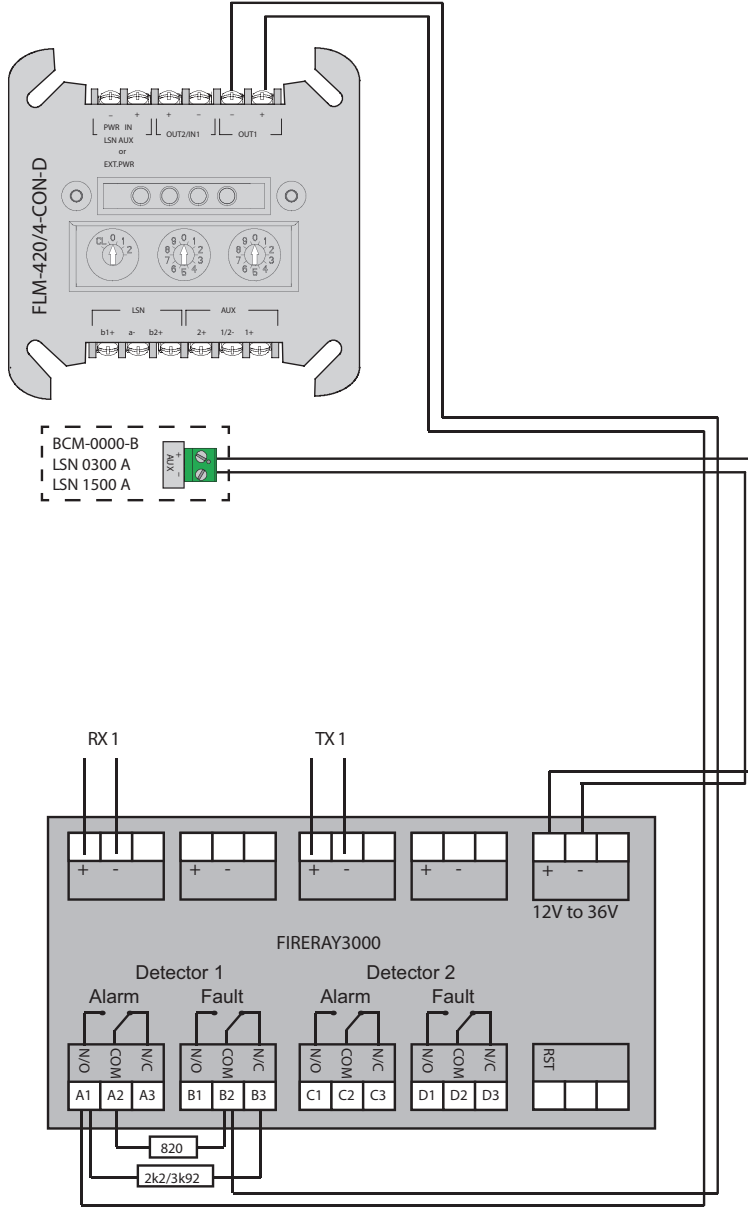
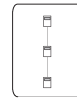
Fireray 50RV
Fireray 100RV





FIRERAY3000

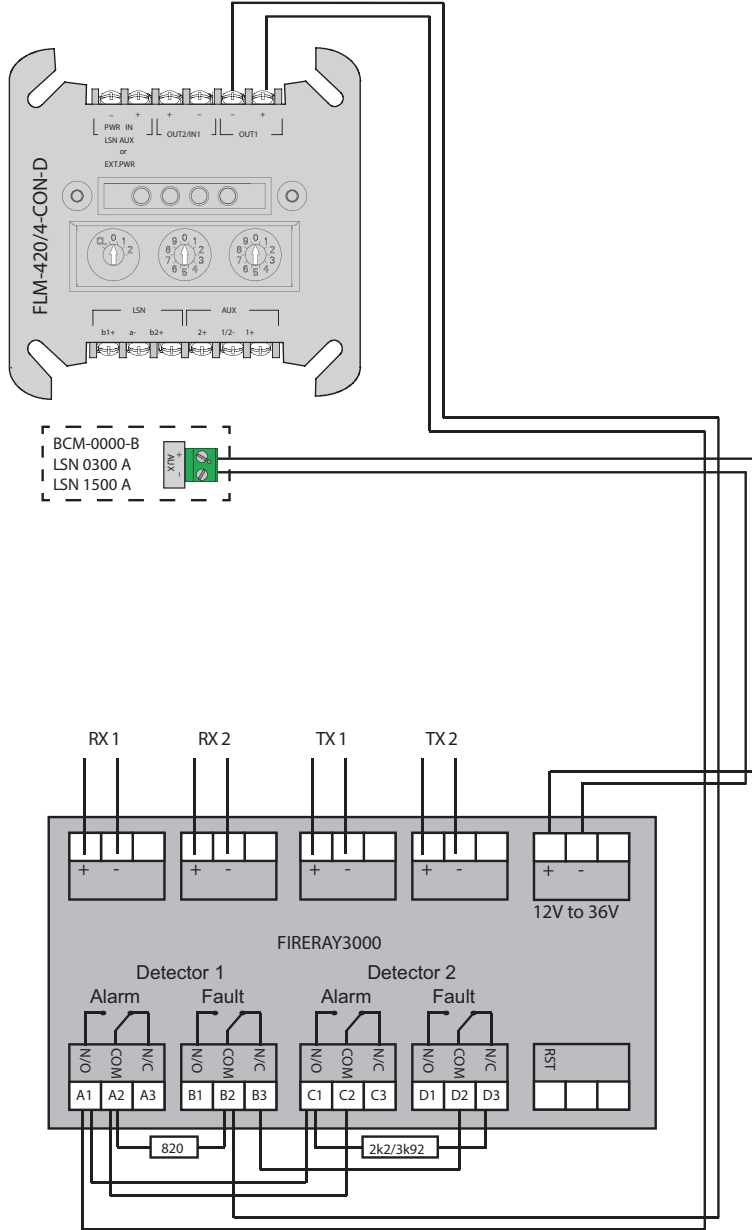
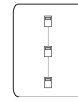
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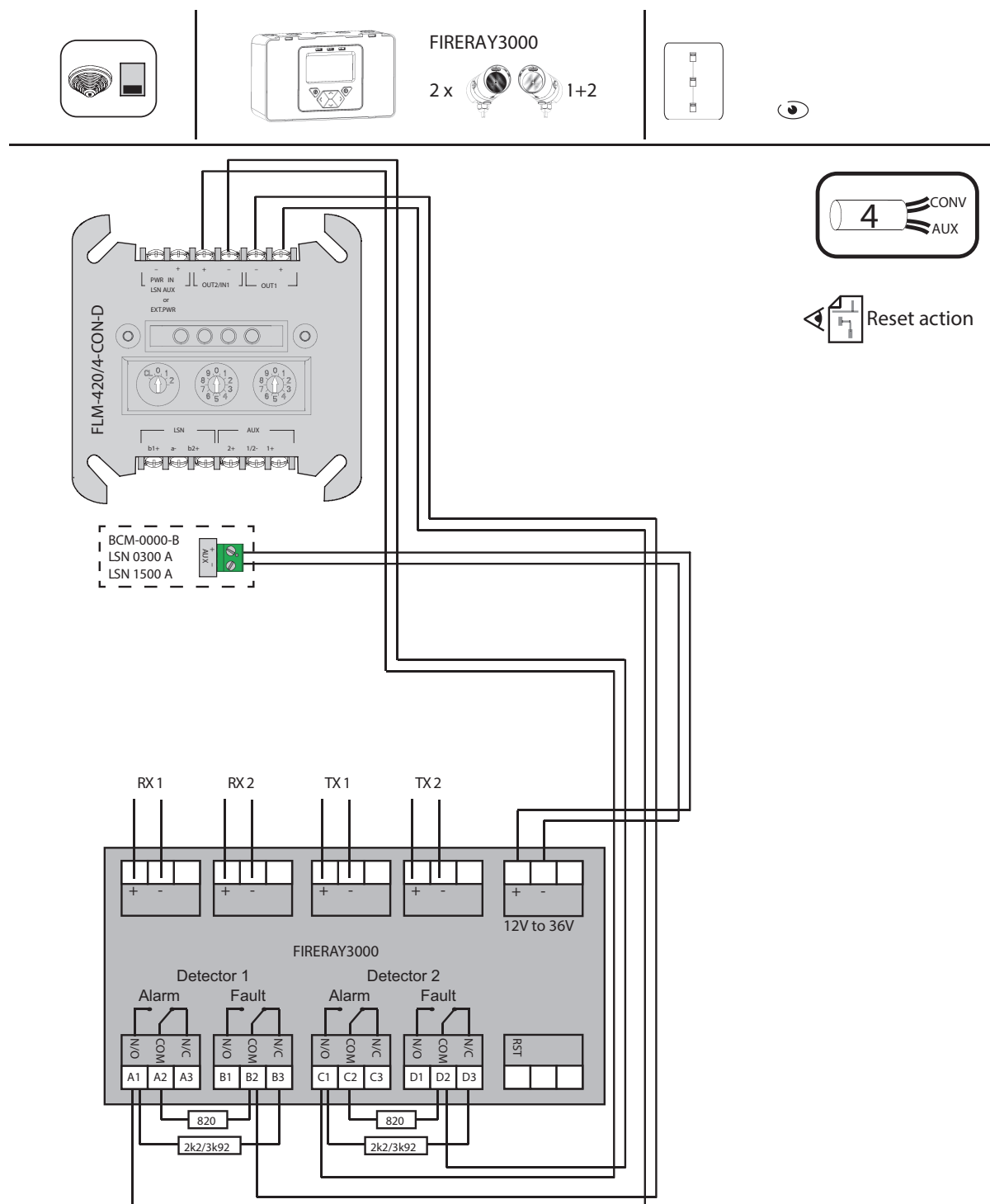




FIRERAY3000

2 x 1

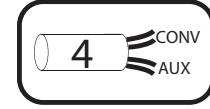
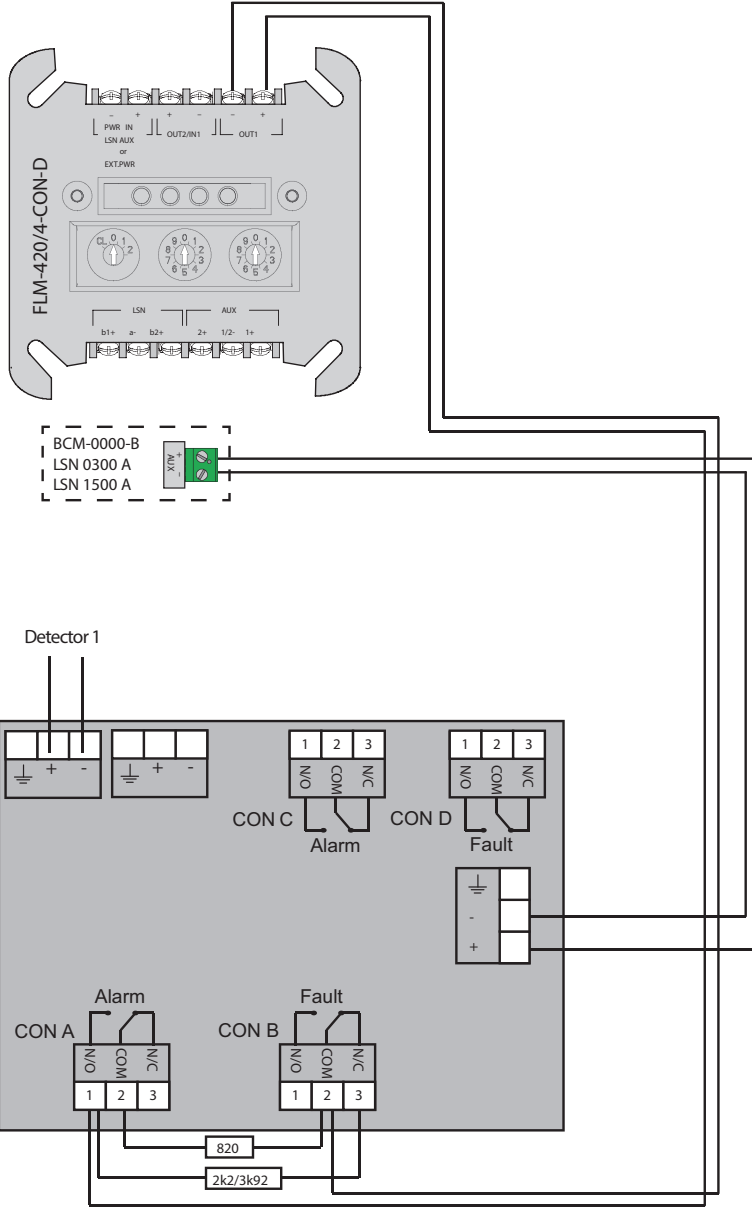
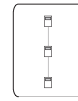






FIRERAY5000

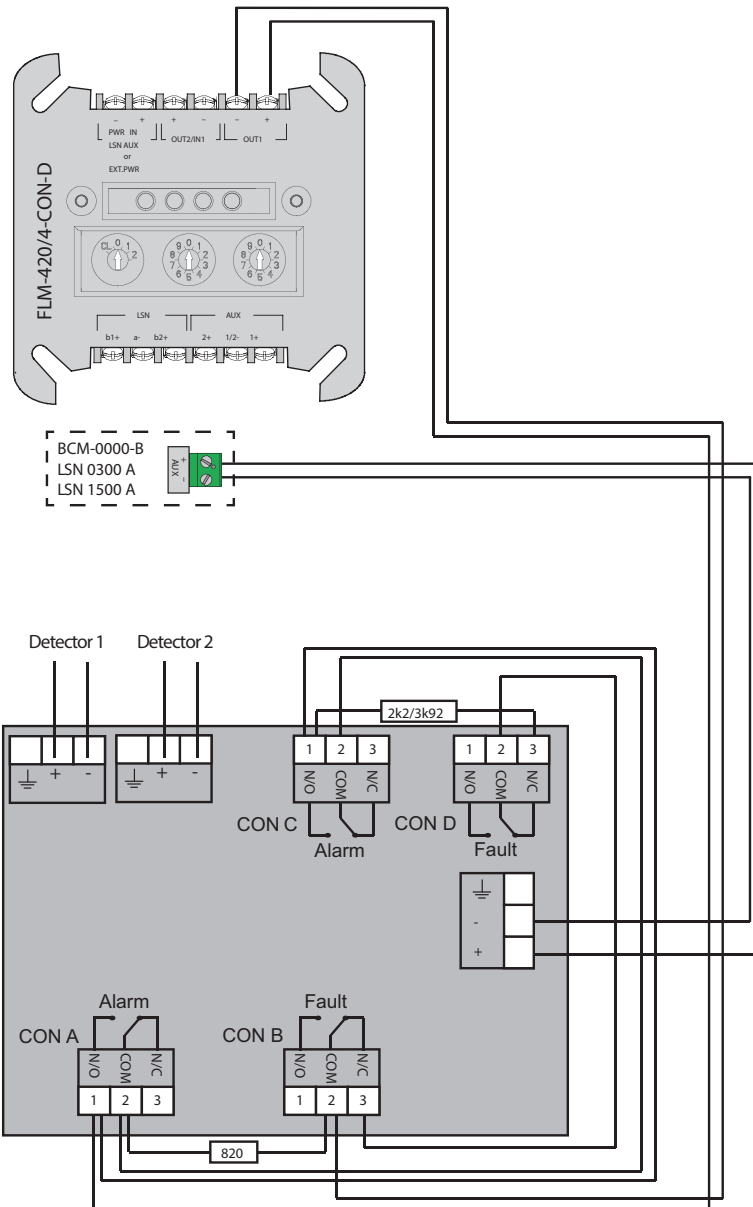
1 x





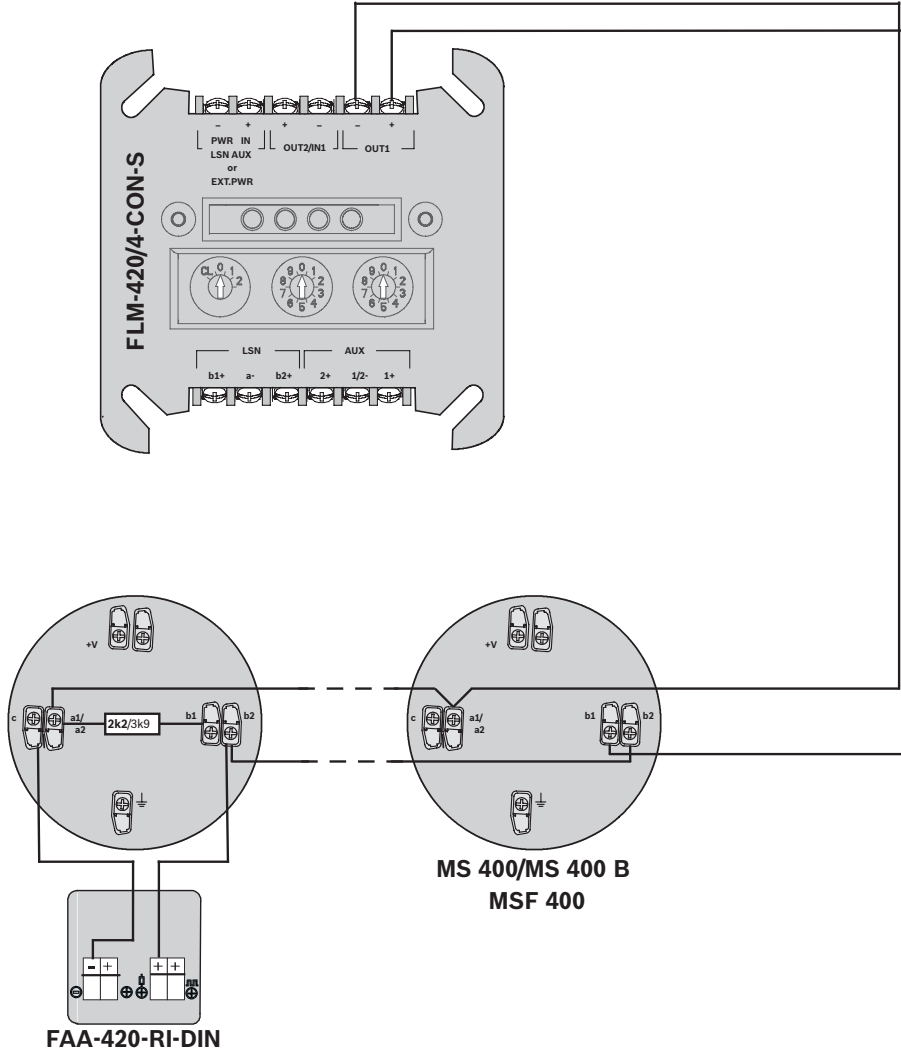
FIRERAY5000

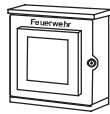
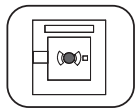
2 x OUT1



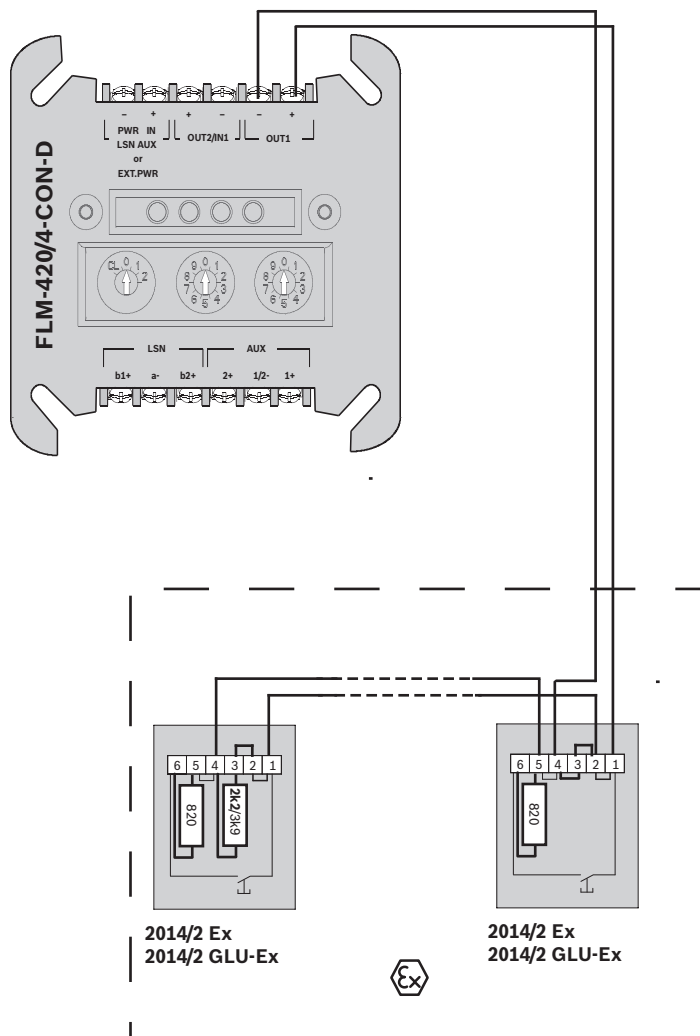
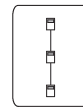


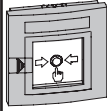
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470





2014/2 Ex
2014/2 GLU-Ex



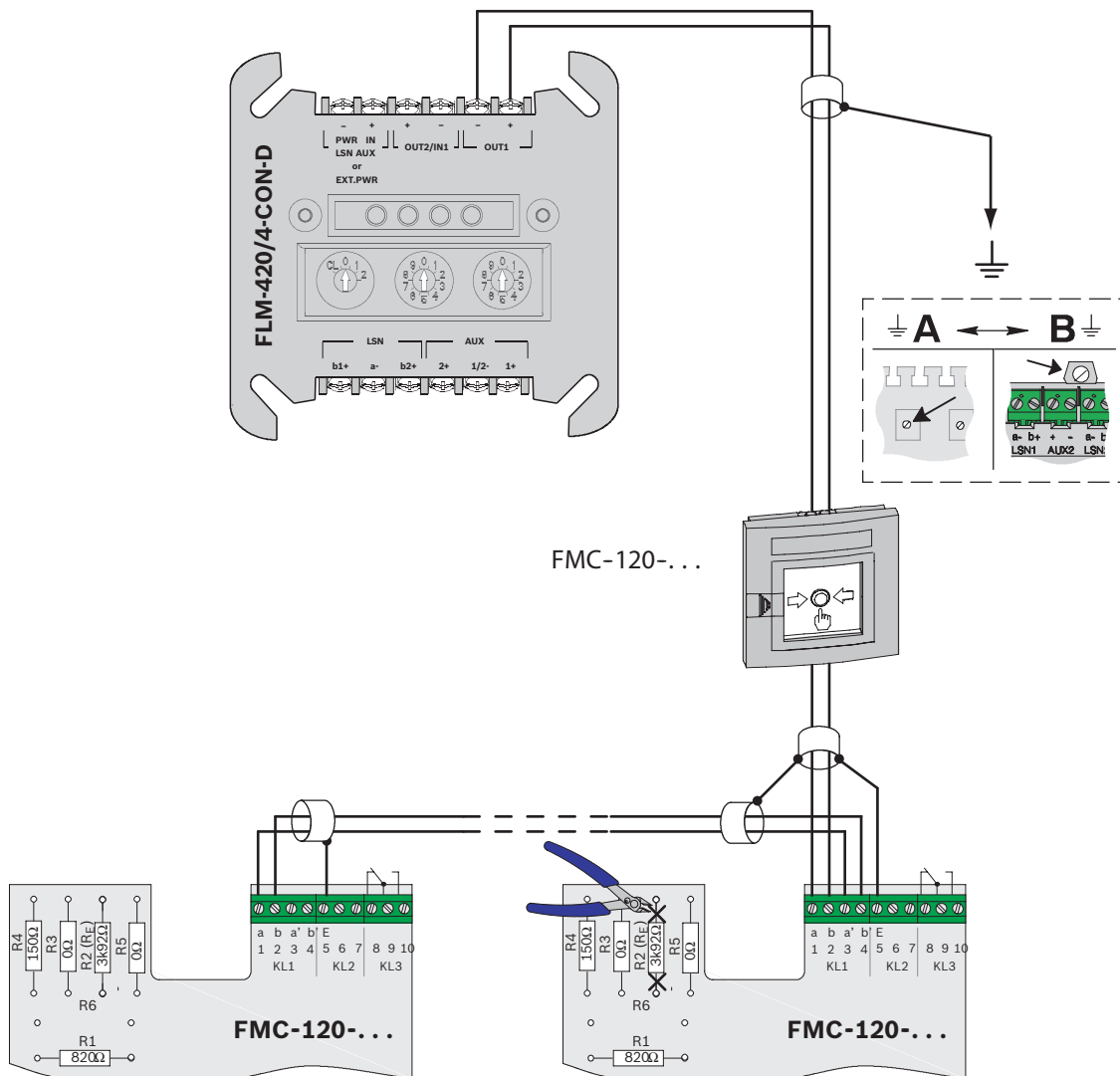
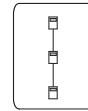


FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B

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

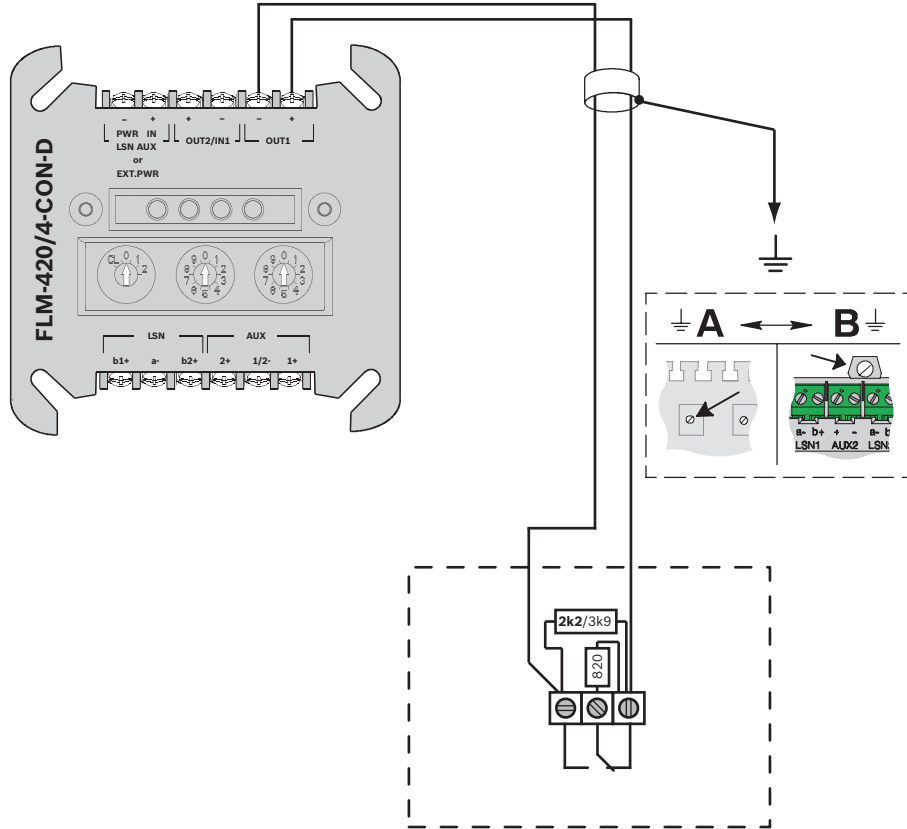
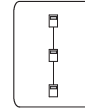
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FMC-120-DKM-H-B

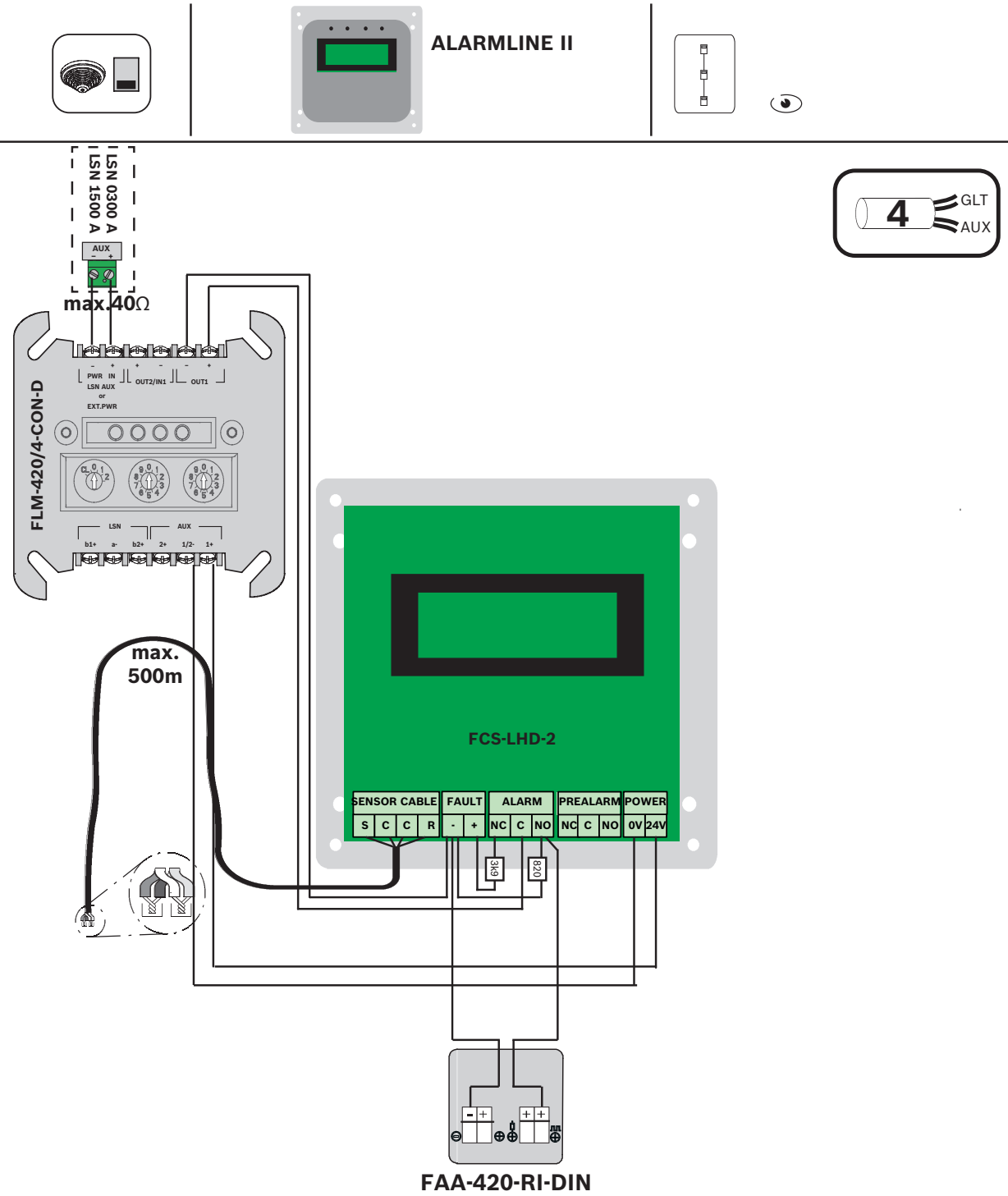
FMC-120-DKM-H-B

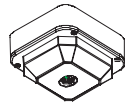




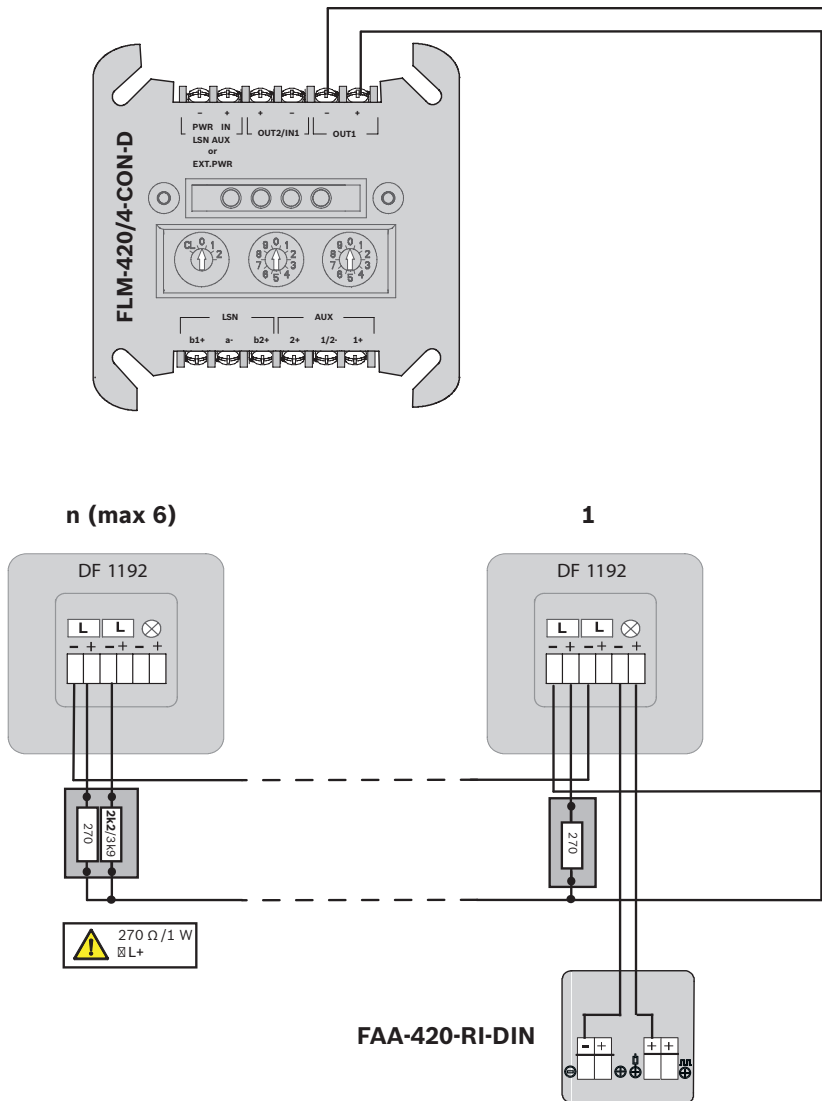
— / — NO





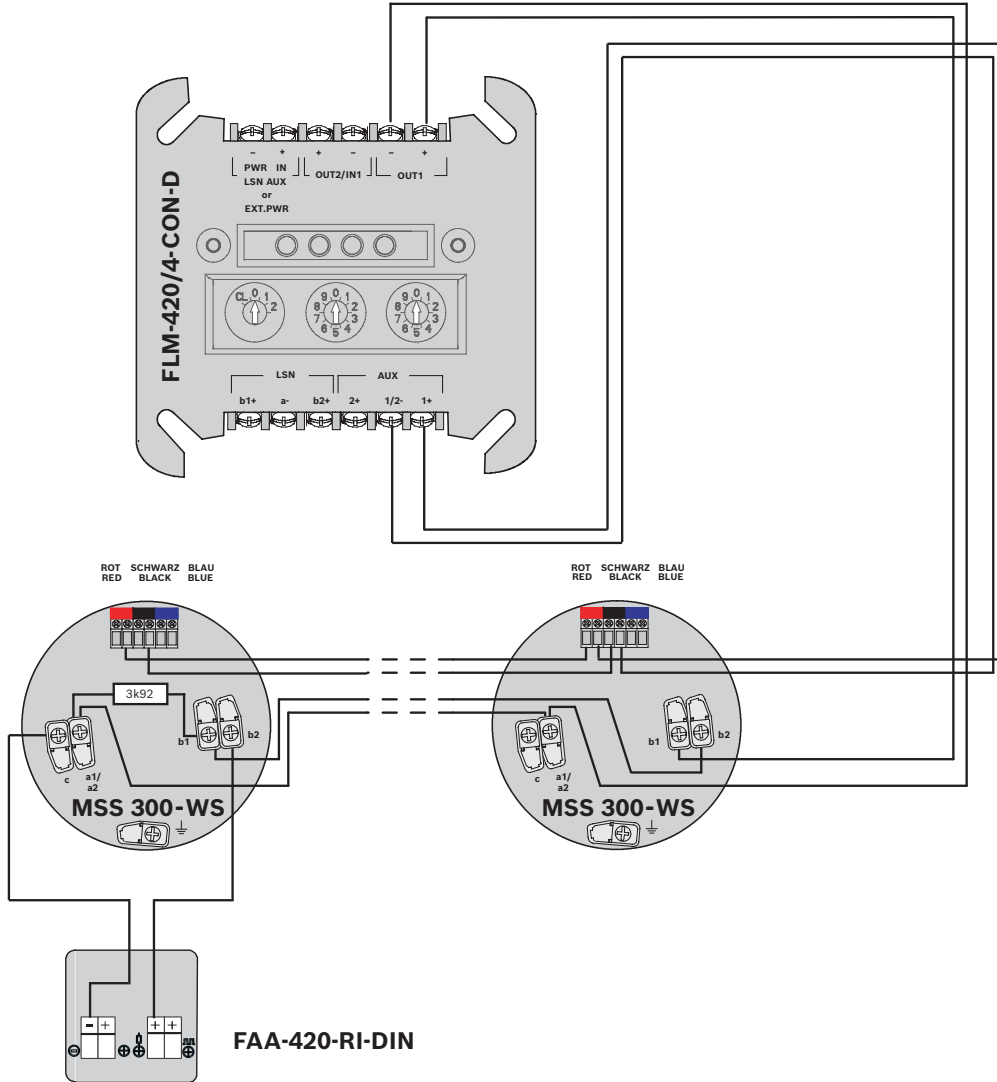


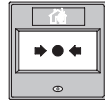
DF 1192



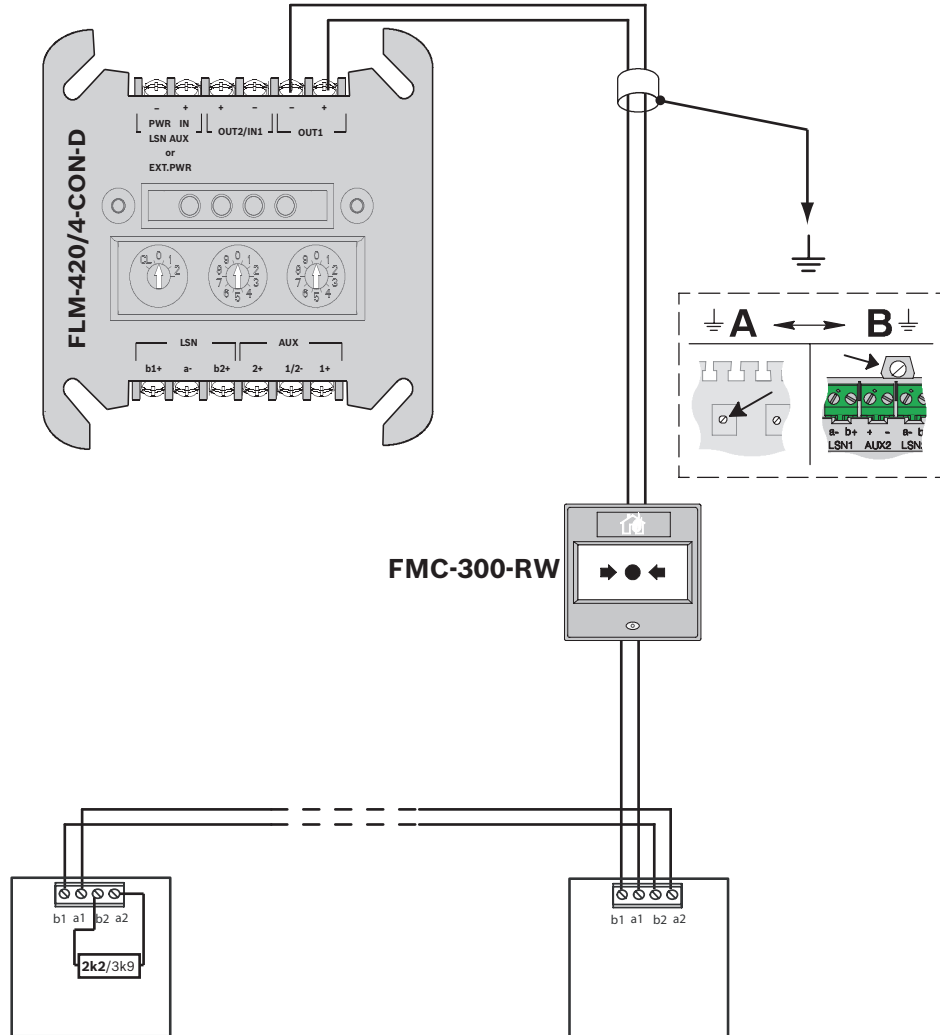
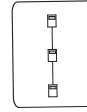


MSS 300-WS



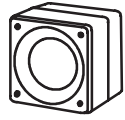


FMC-300-RW

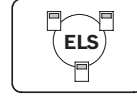


3.4.2

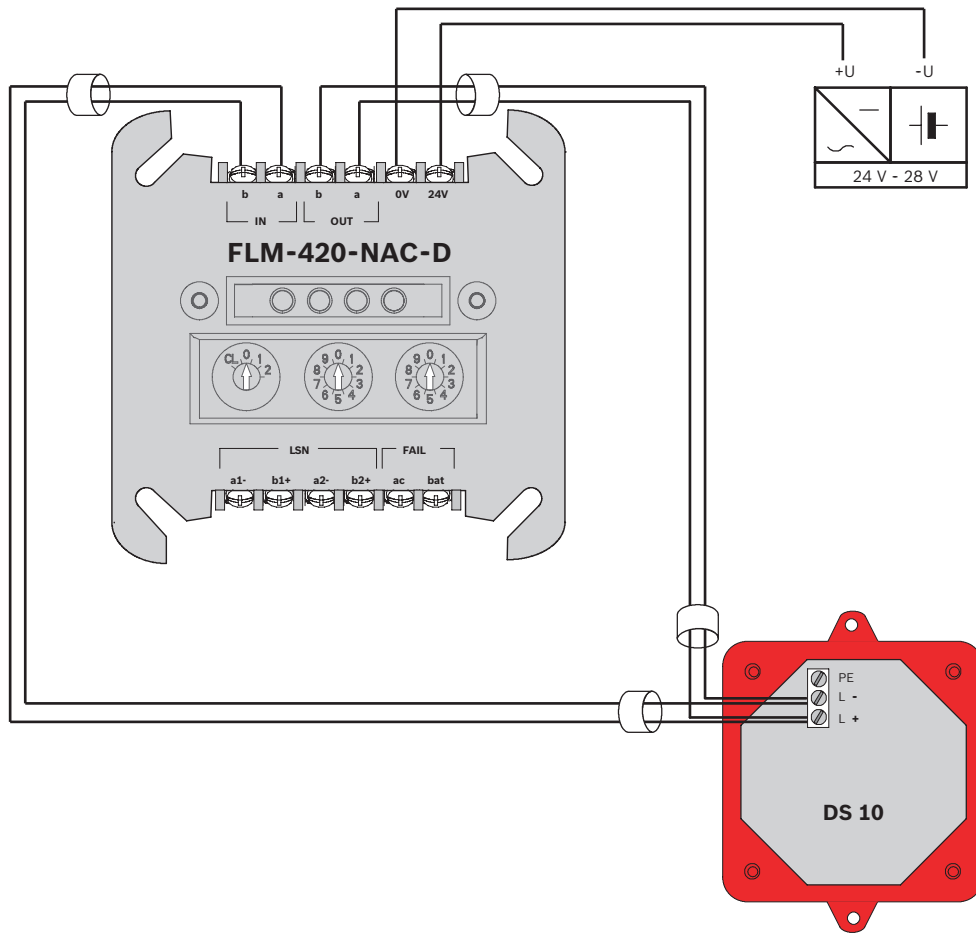
FLM-420-NAC-D/S

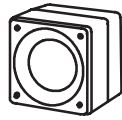


DS 10

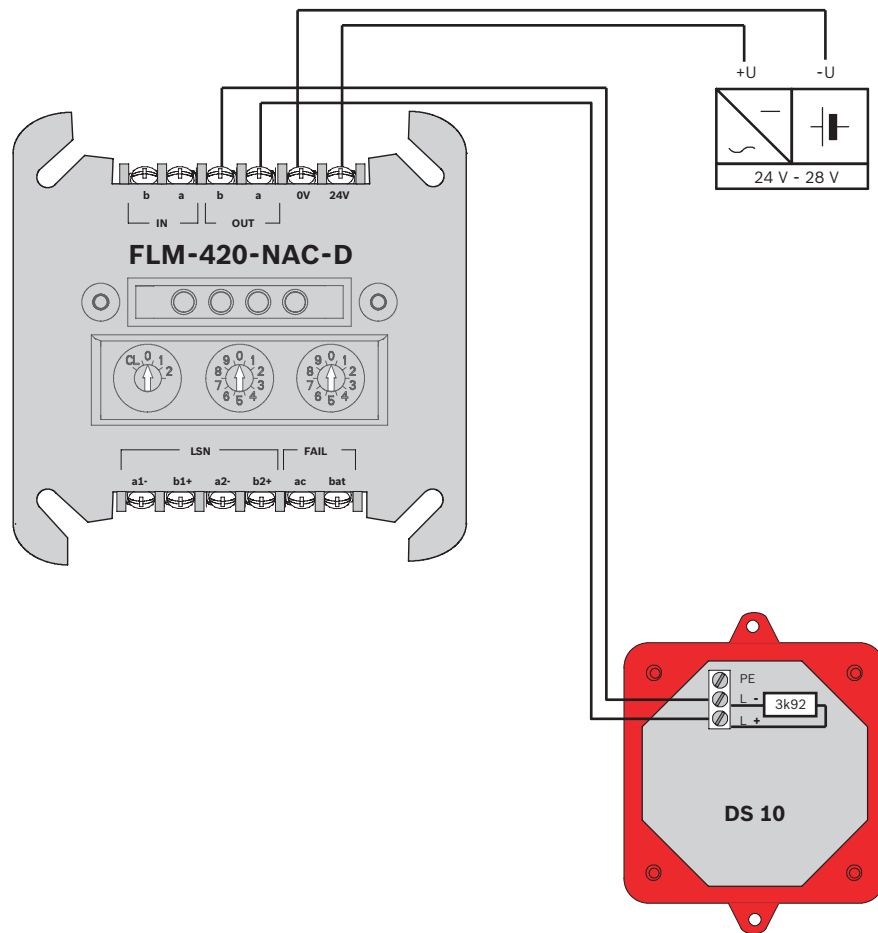
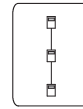


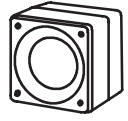
VdS 2489



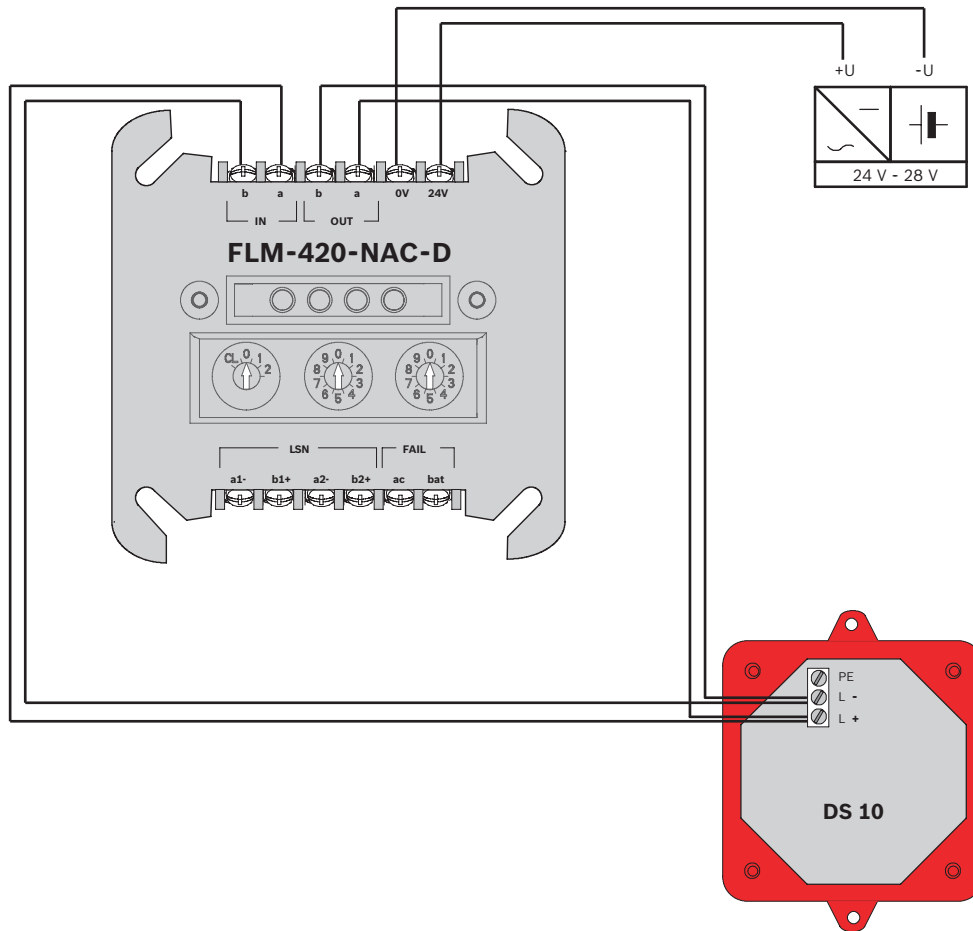
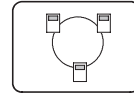


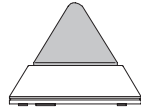
DS 10



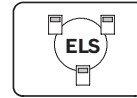


DS 10

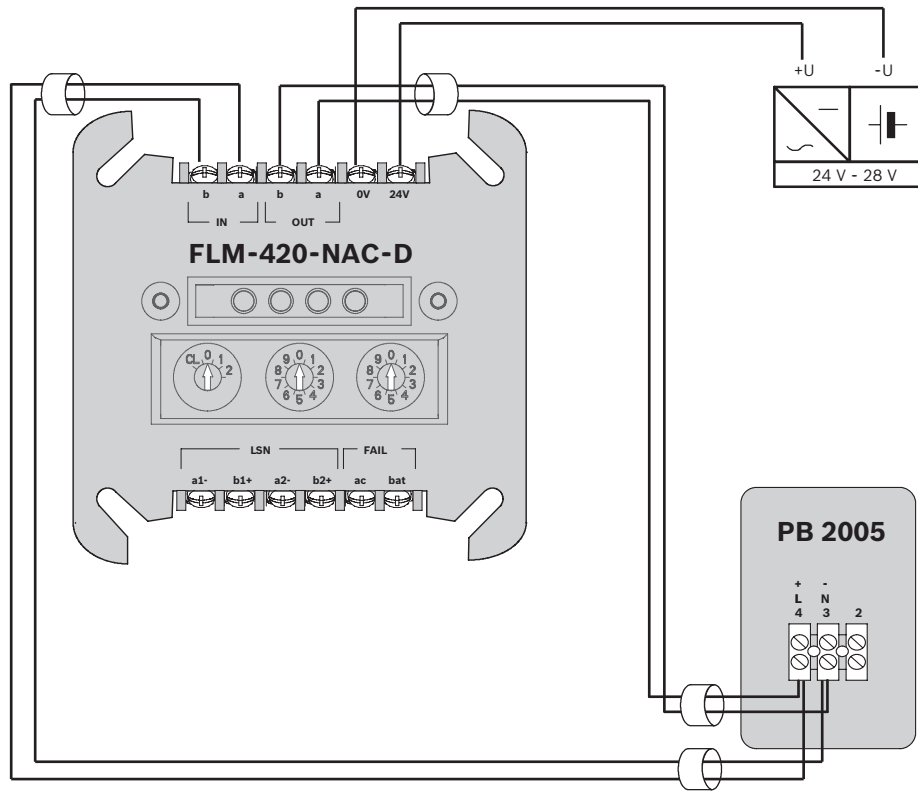


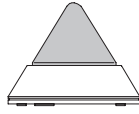


PB 2005

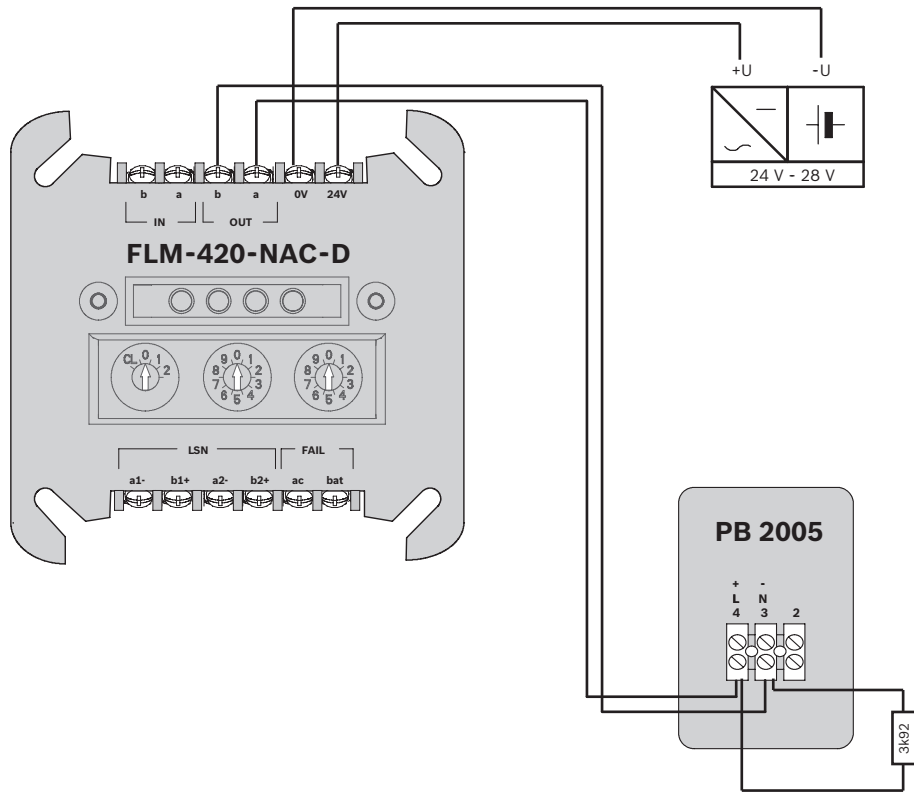
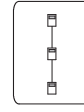


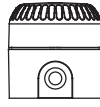
VdS 2489



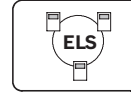


PB 2005

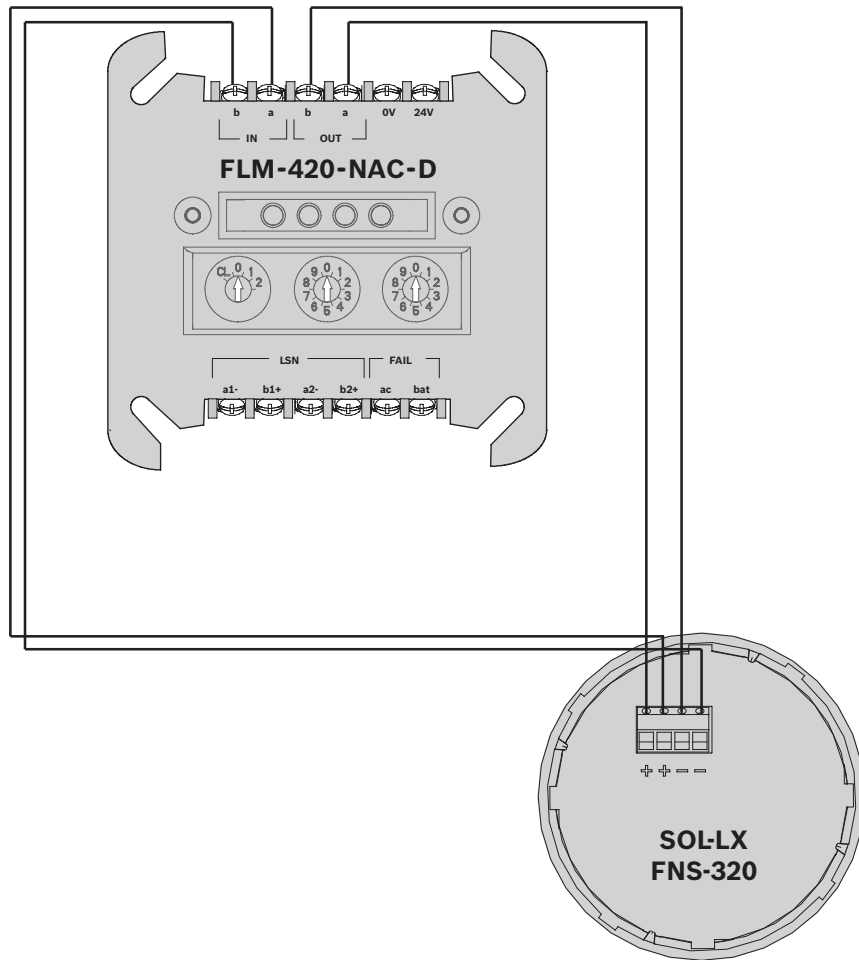


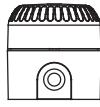


**SOL-LX
FNS-320**

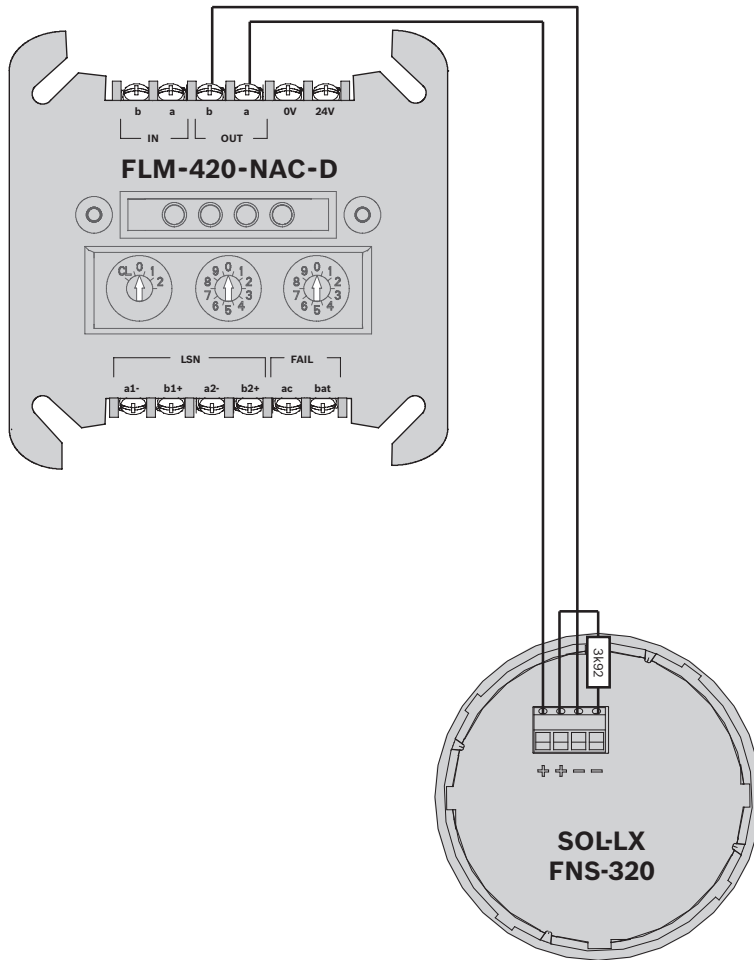
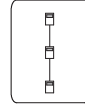


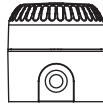
VdS 2489



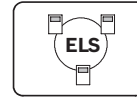


**SOL-LX
FNS-320**

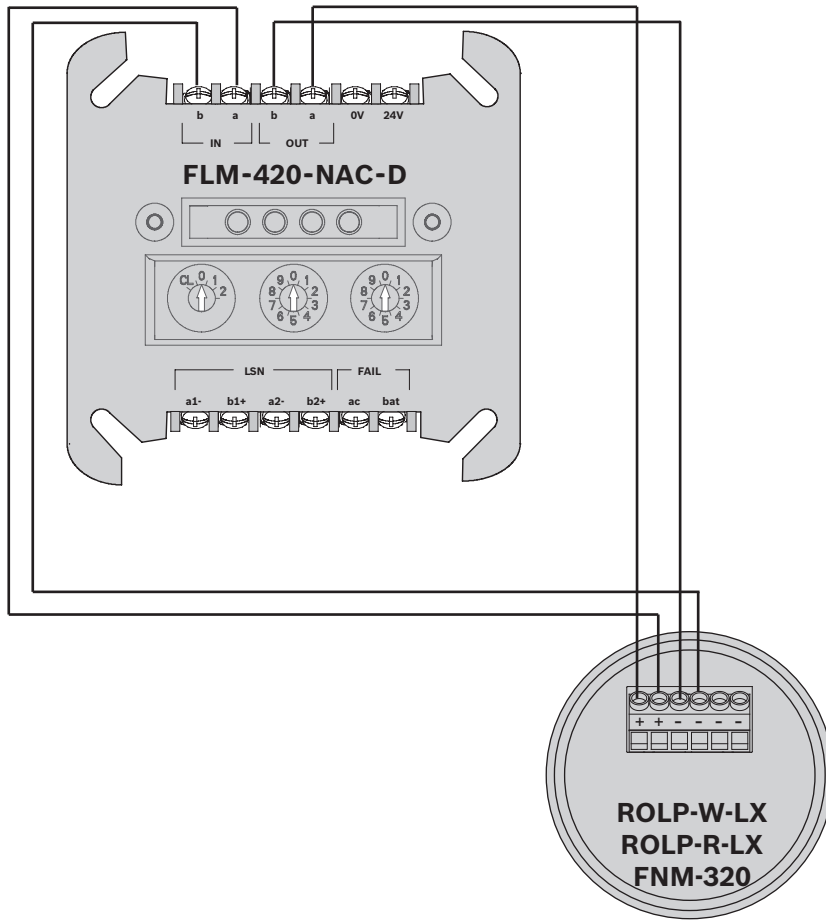


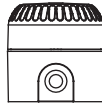


ROLP-W-LX
ROLP-R-LX
FNM-320

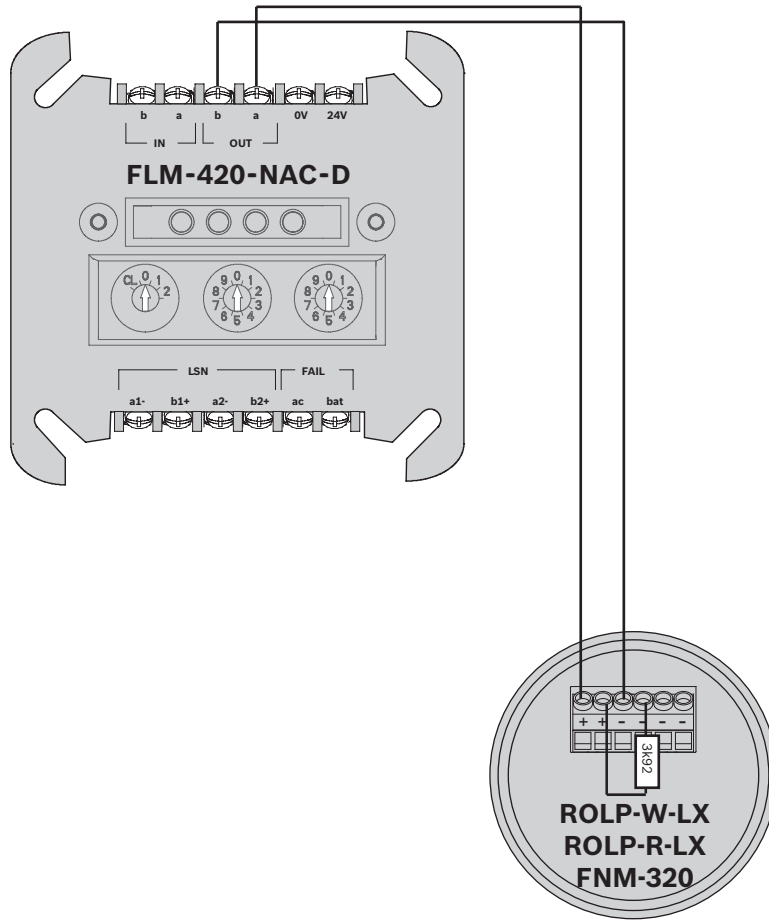
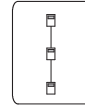


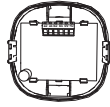
VdS 2489



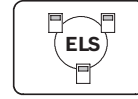


ROLP-W-LX
ROLP-R-LX
FNM-320

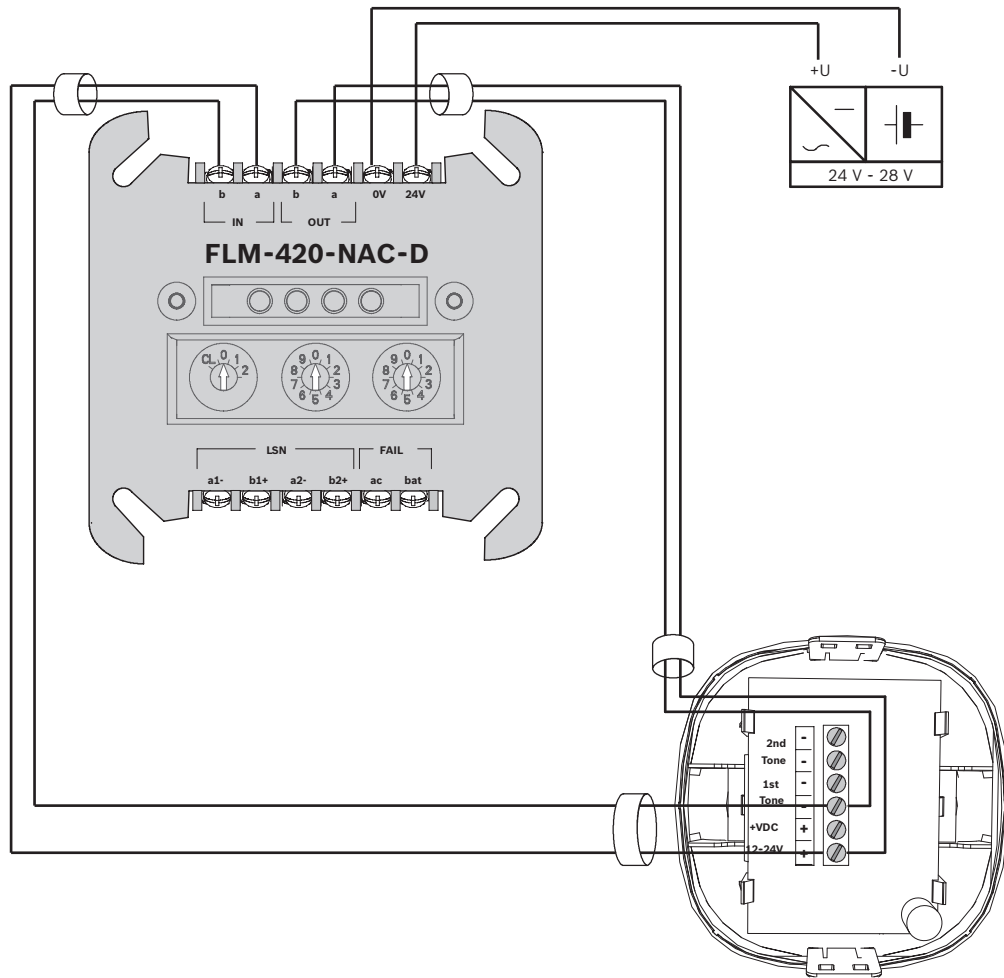


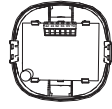


FNM-320V-A / -B

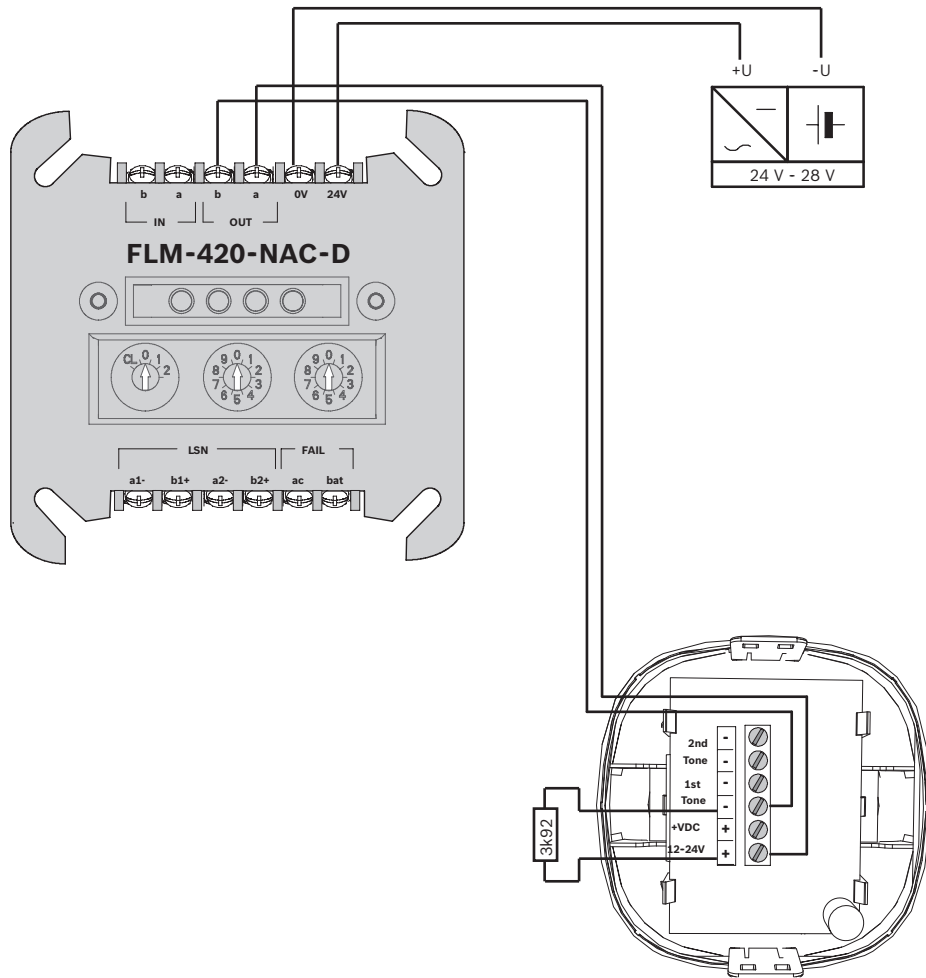
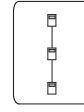


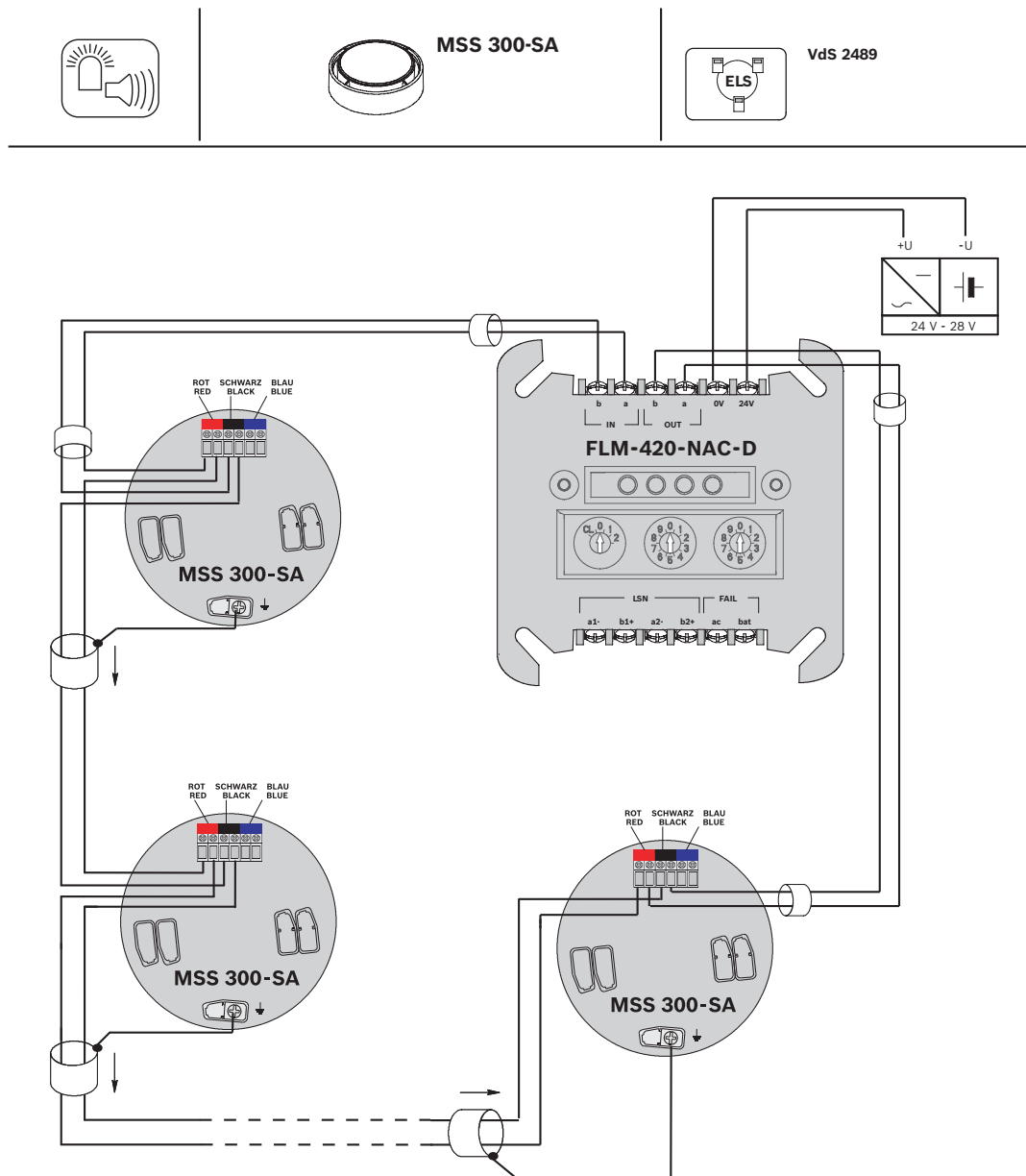
VdS 2489





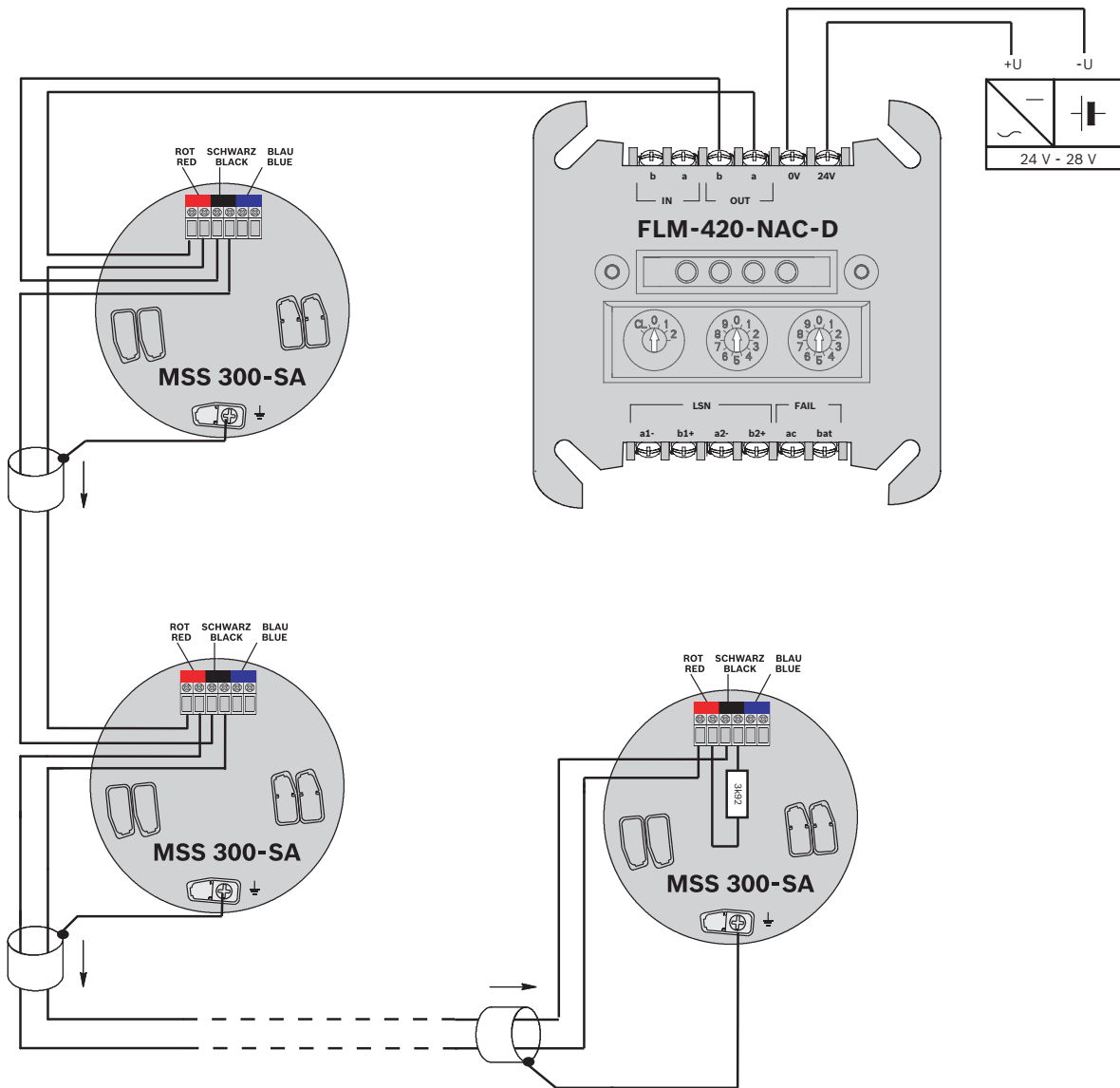
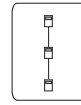
FNM-320V-A / -B







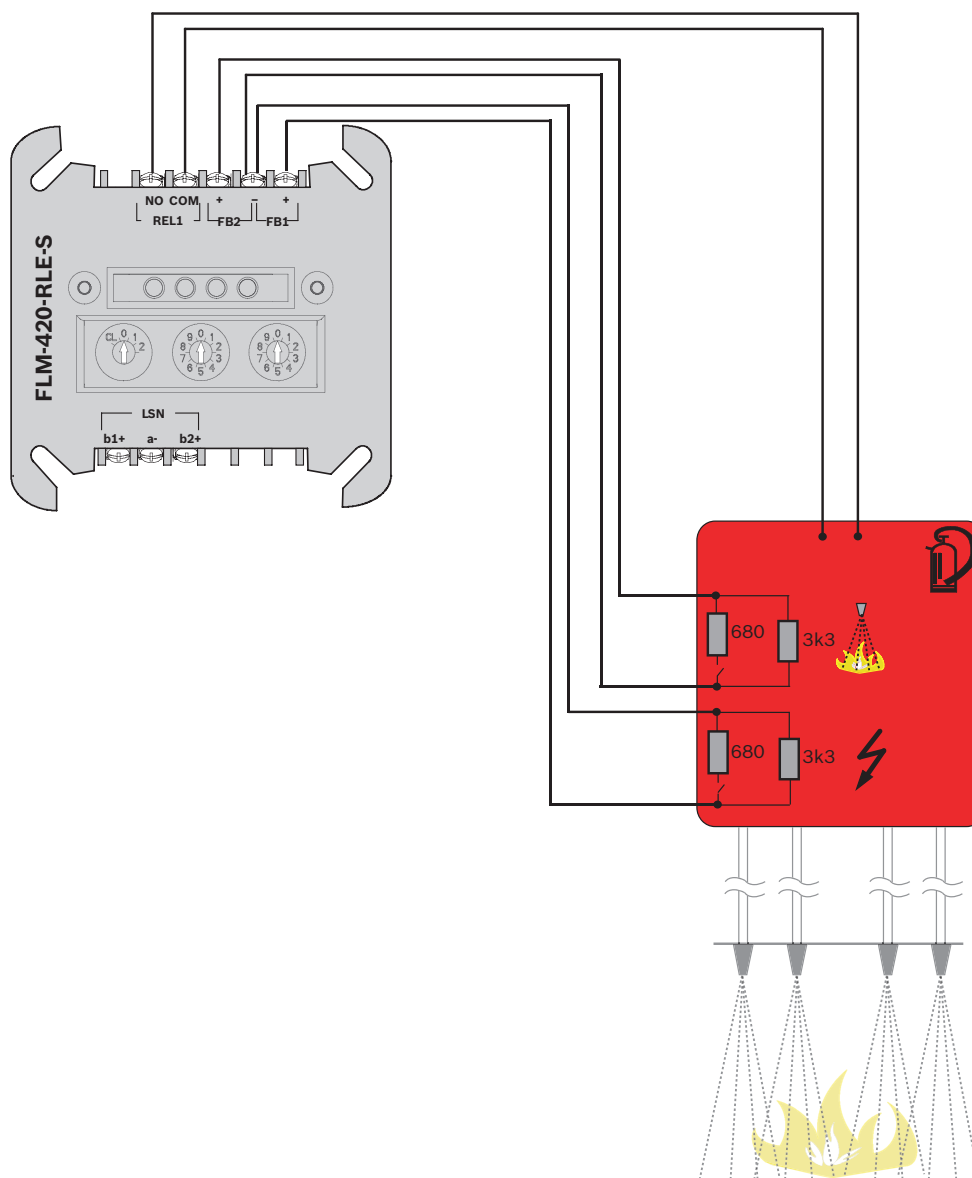
MSS 300-SA



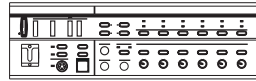
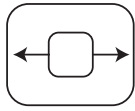
3.4.3

FLM-420-RLE-S

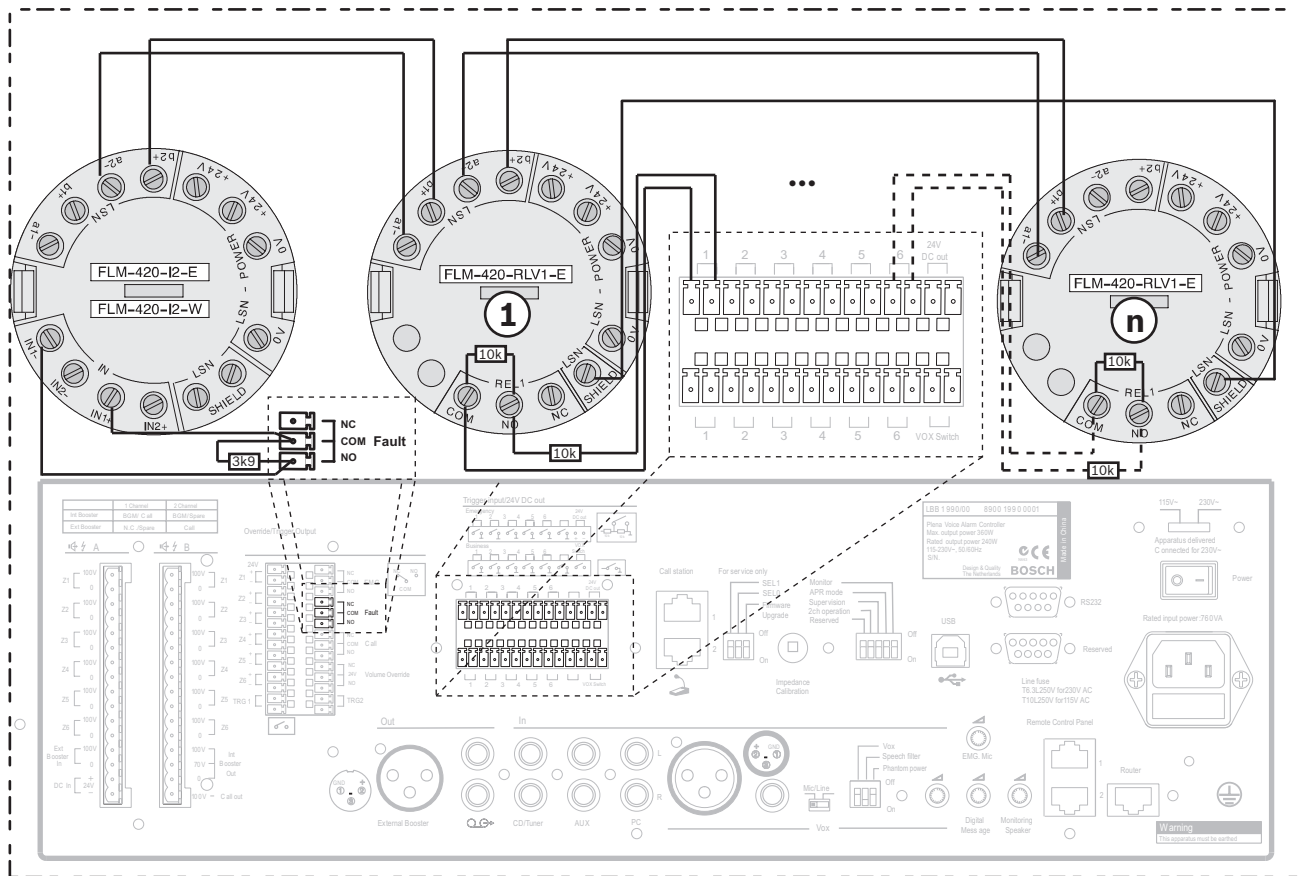
VdS 2496:2005-09



3.4.4 FLM-420-RLV1-E

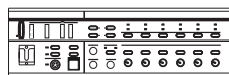
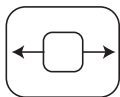


Plena

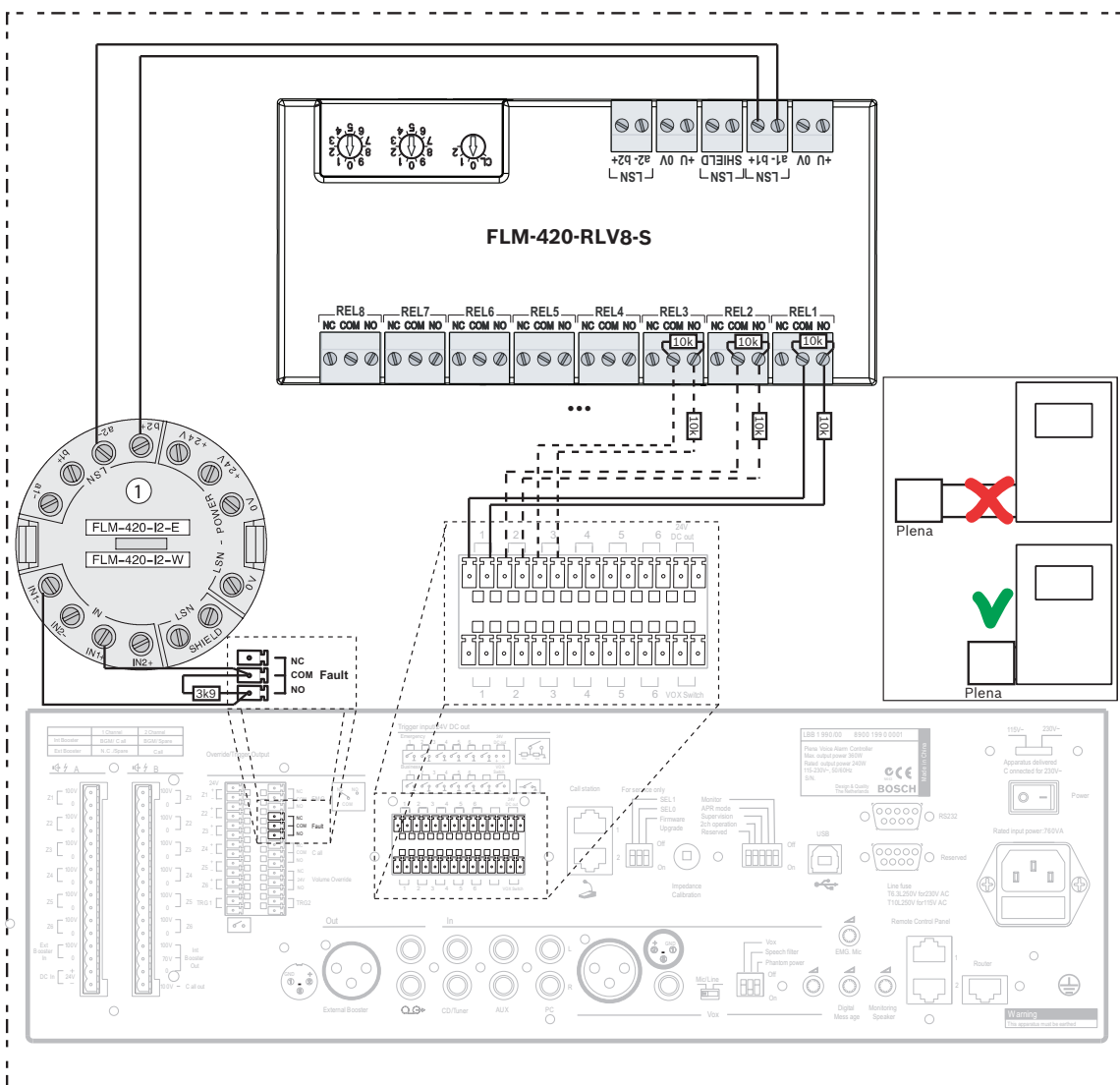
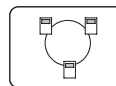


3.4.5

FLM-420-RLV8-S

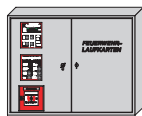


Plena



3.4.6

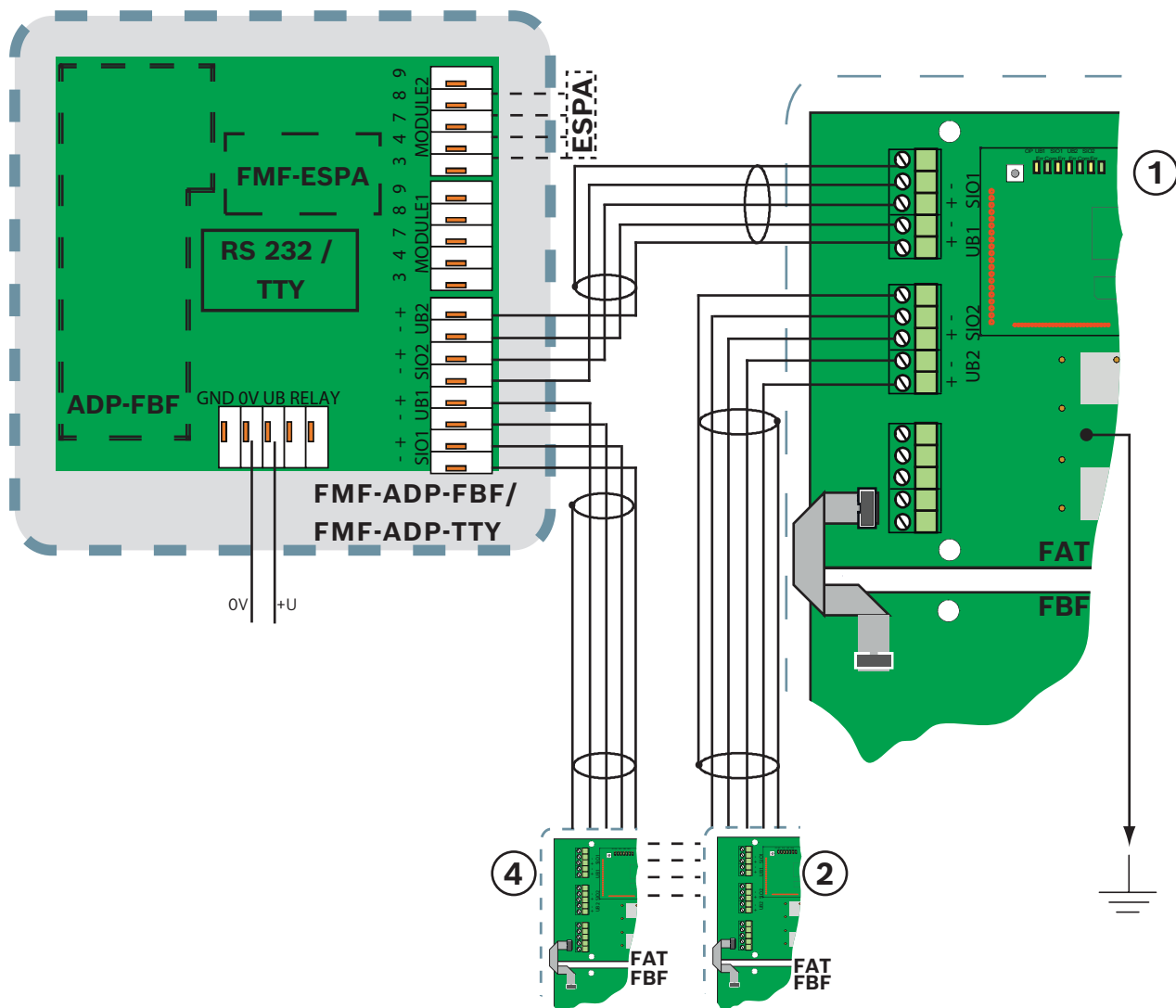
FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS VdS 2489

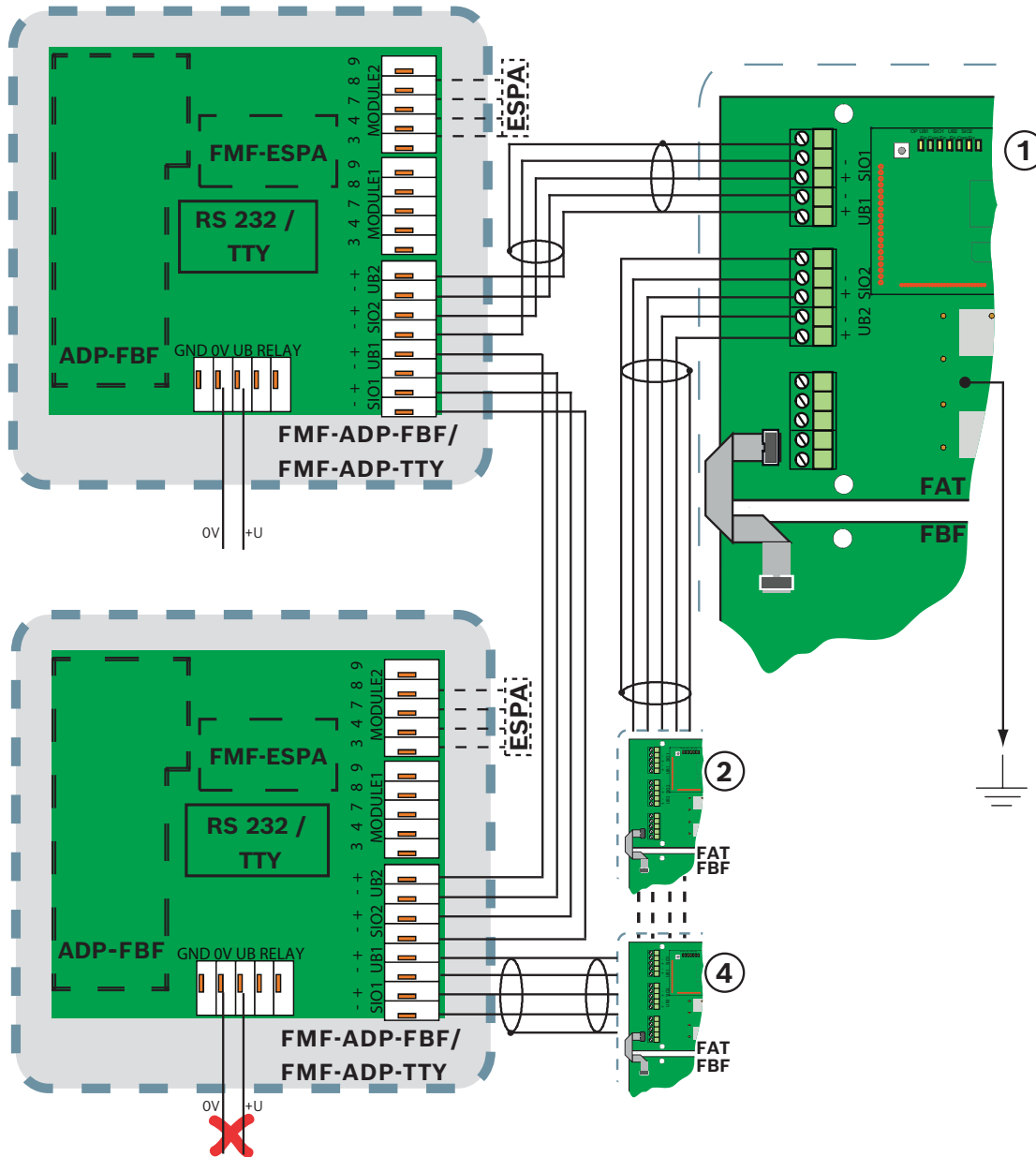




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489



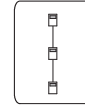
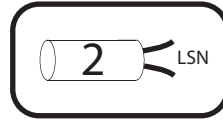
3.5

EOL



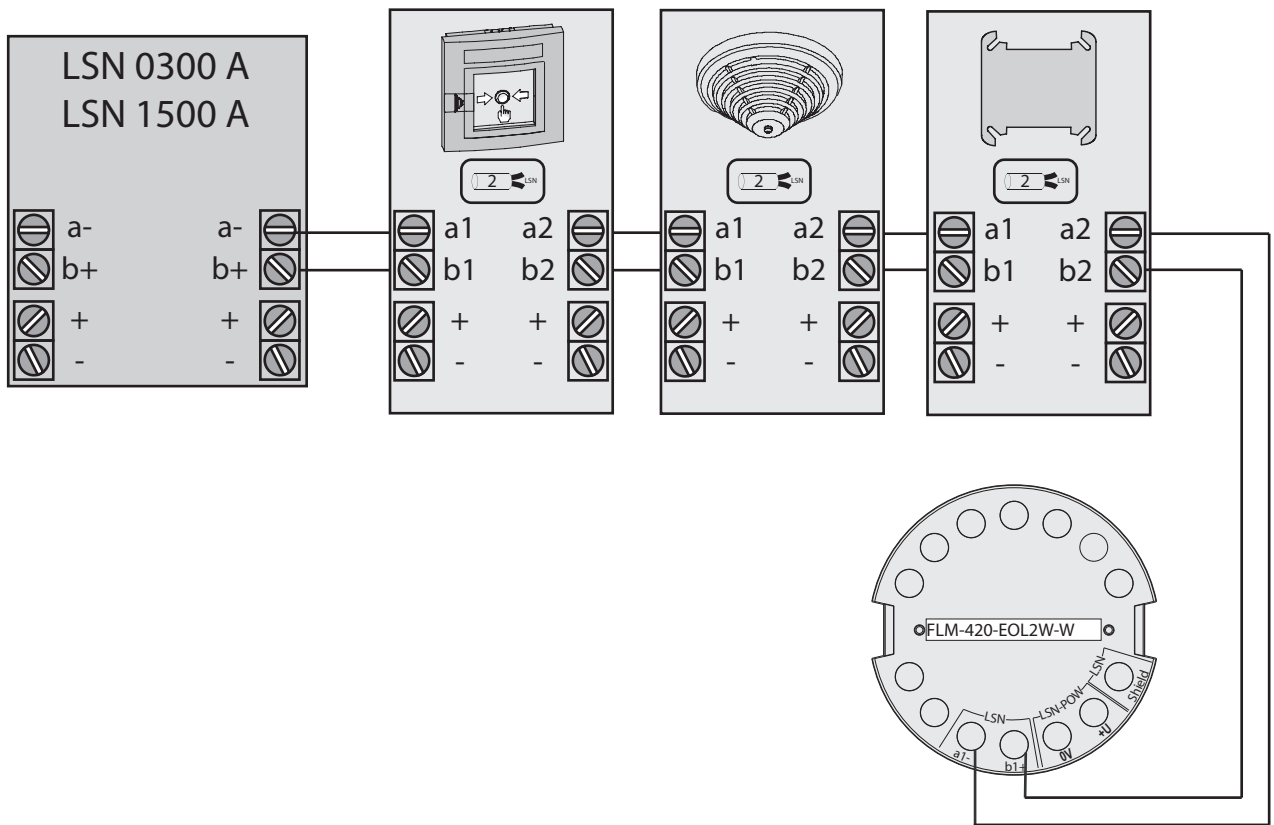
LSN 0300 A, sayfa 181

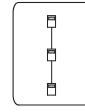
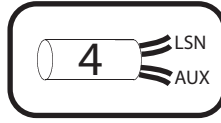
FLM-420/4-CON-S/D, sayfa 223

3.5.1**LSN 0300 A**

ELV

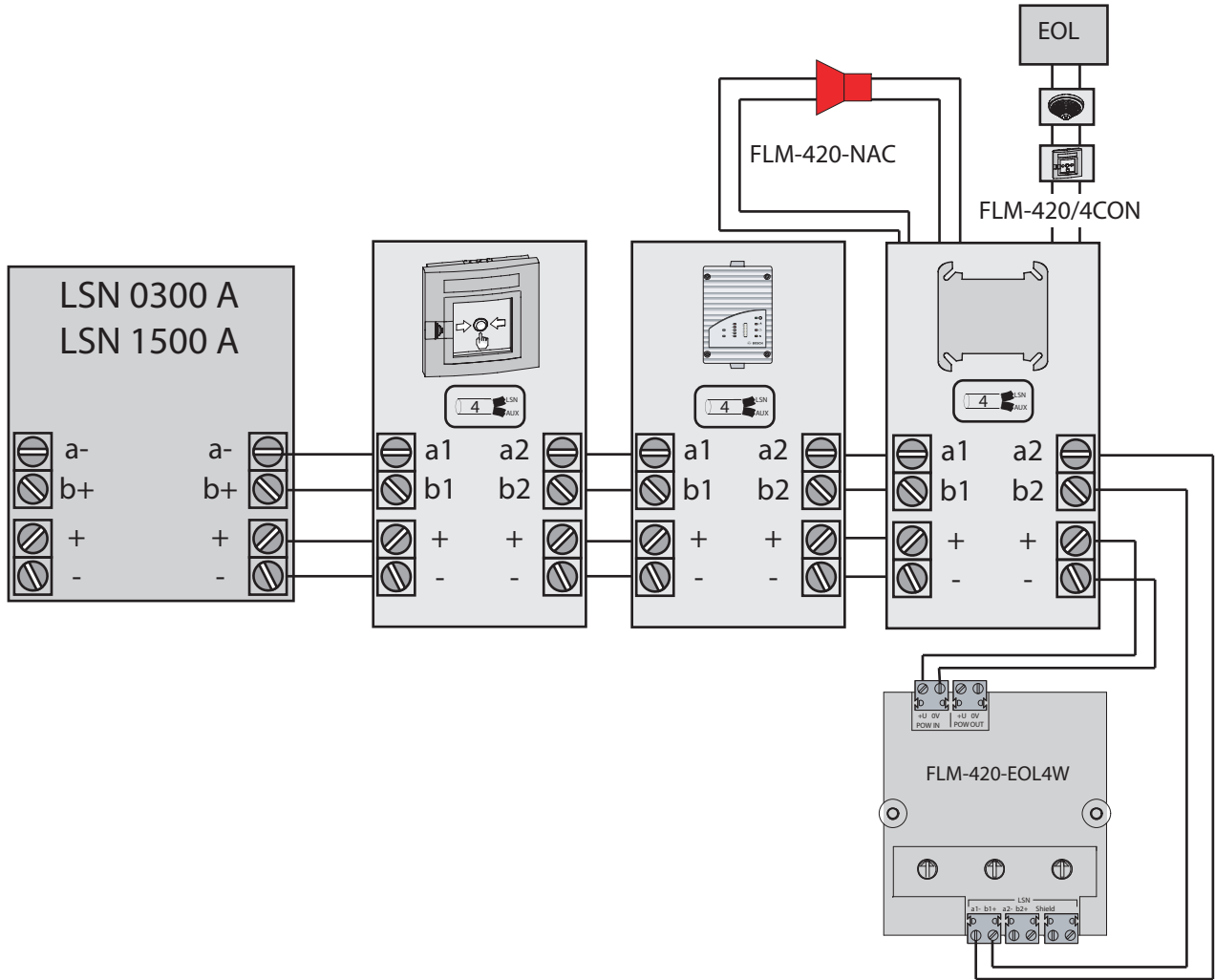
VdS 2489

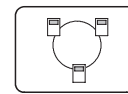
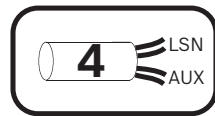




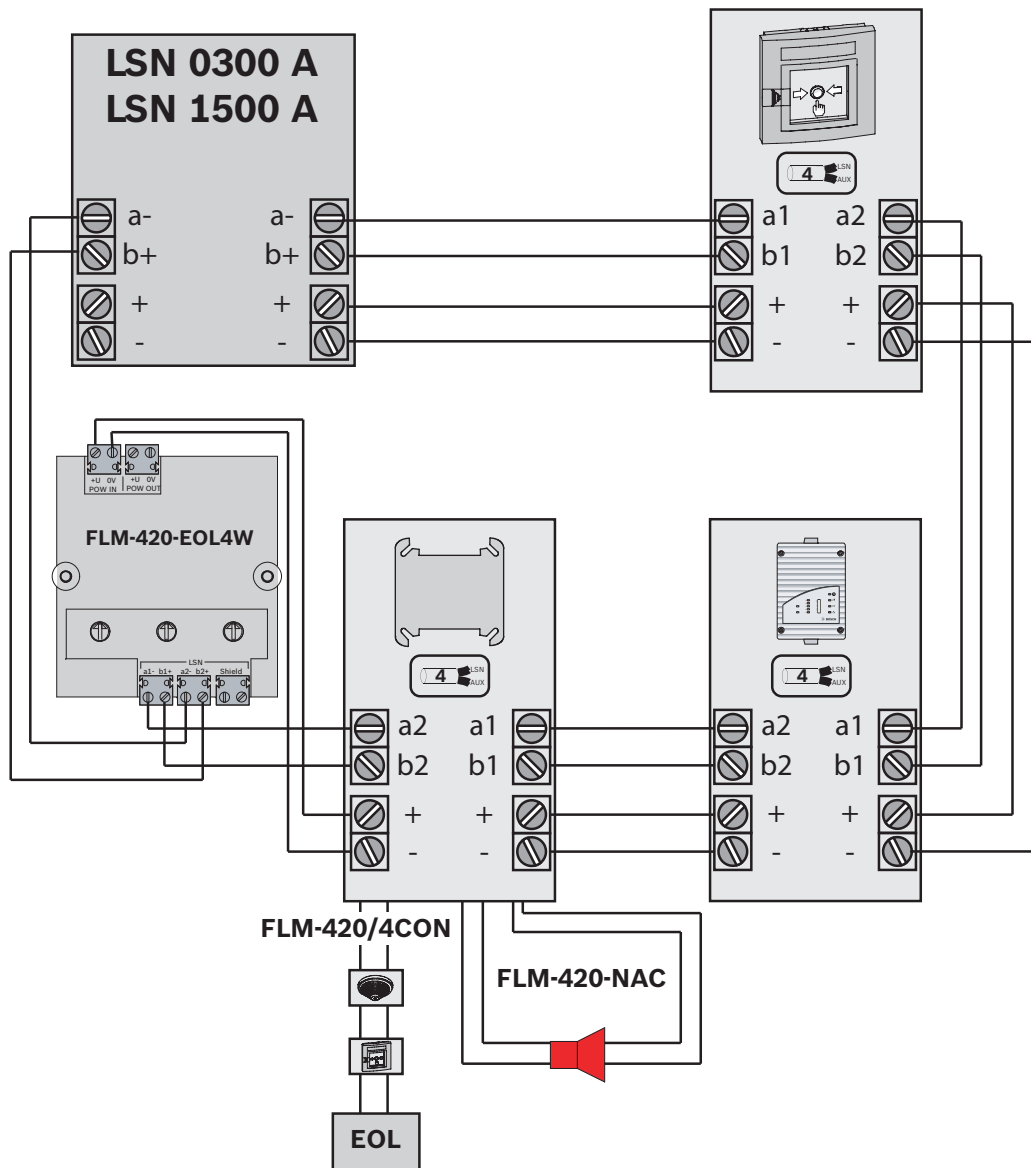
ELS

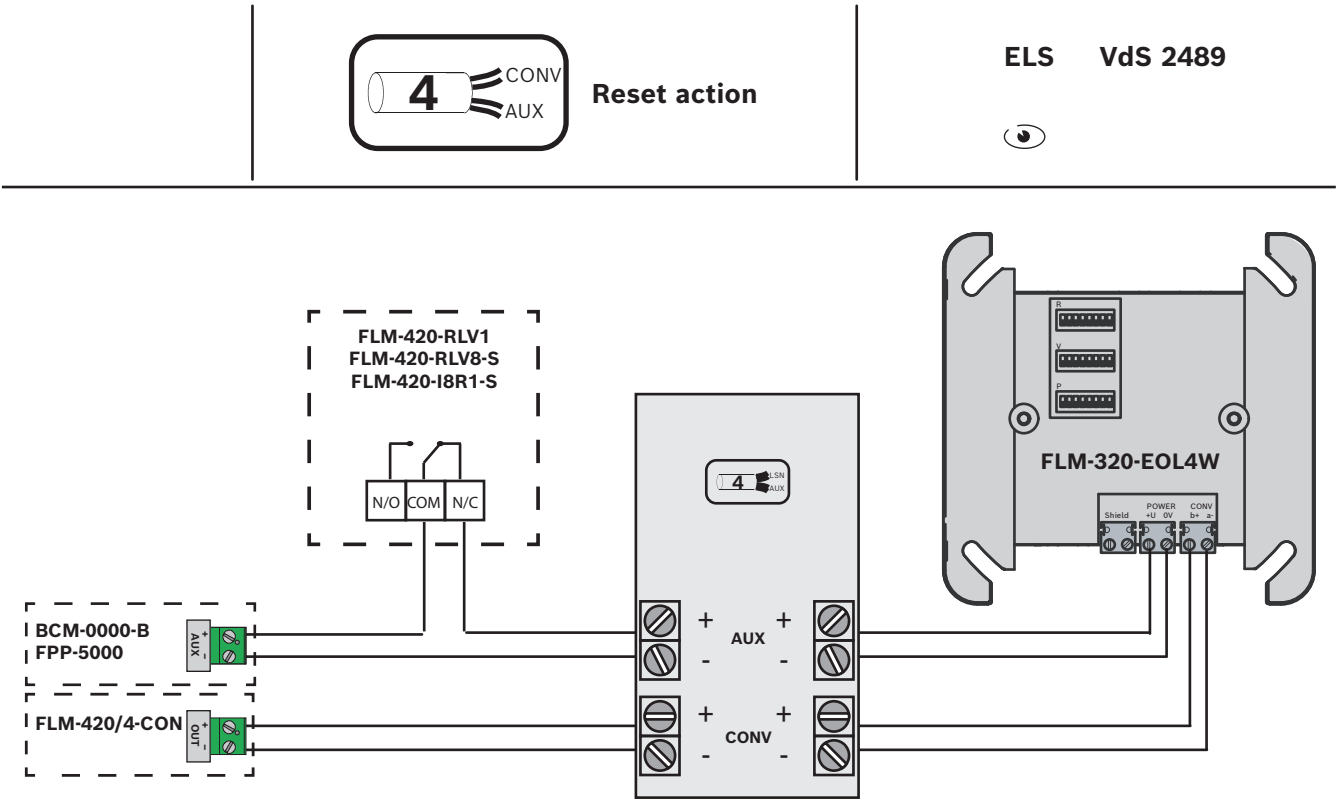
VdS 2489

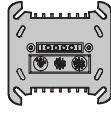
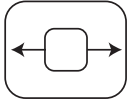




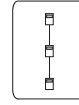
ELS VdS 2489



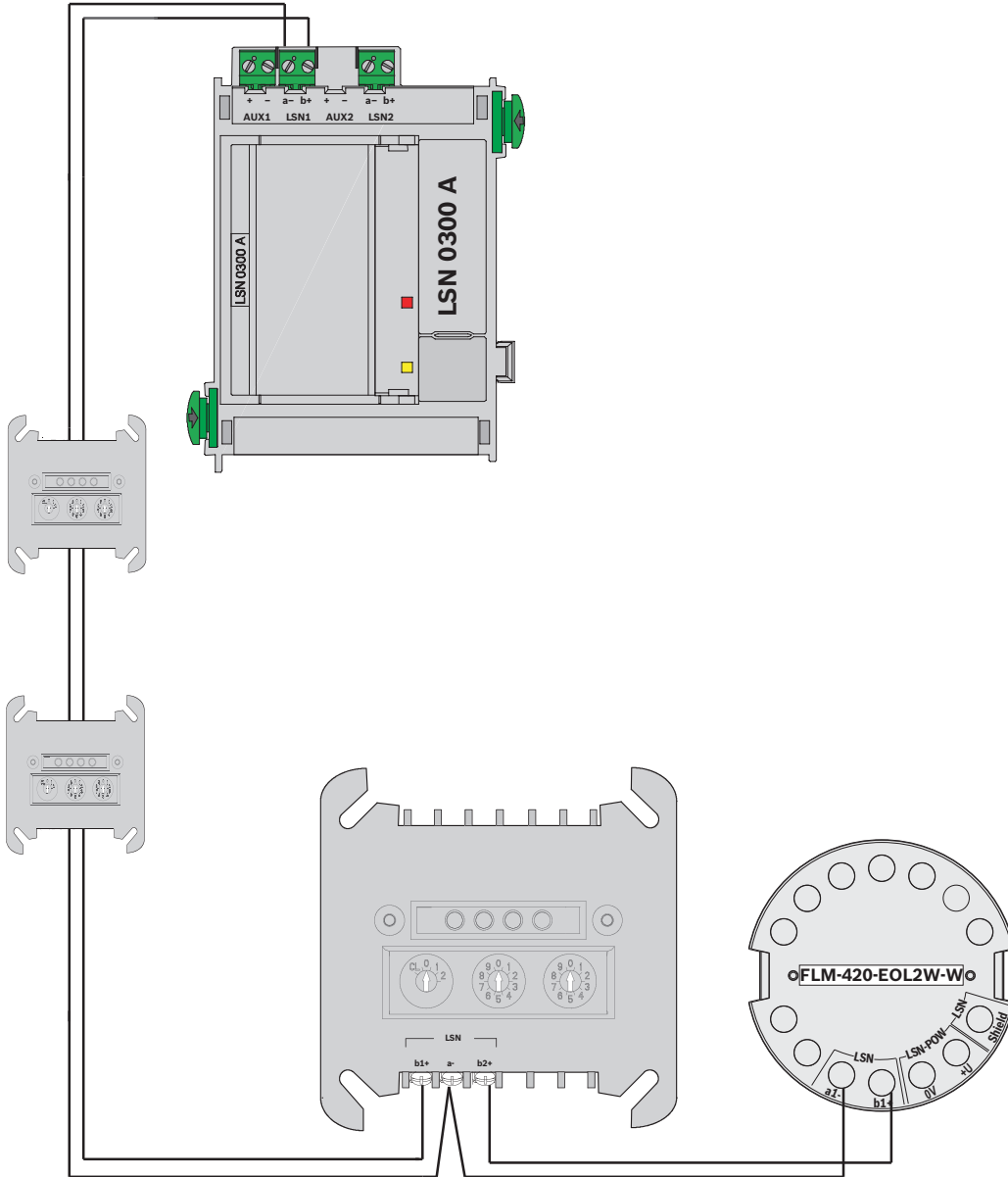


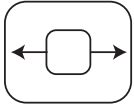


FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

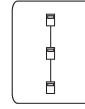


ELS VdS 2489

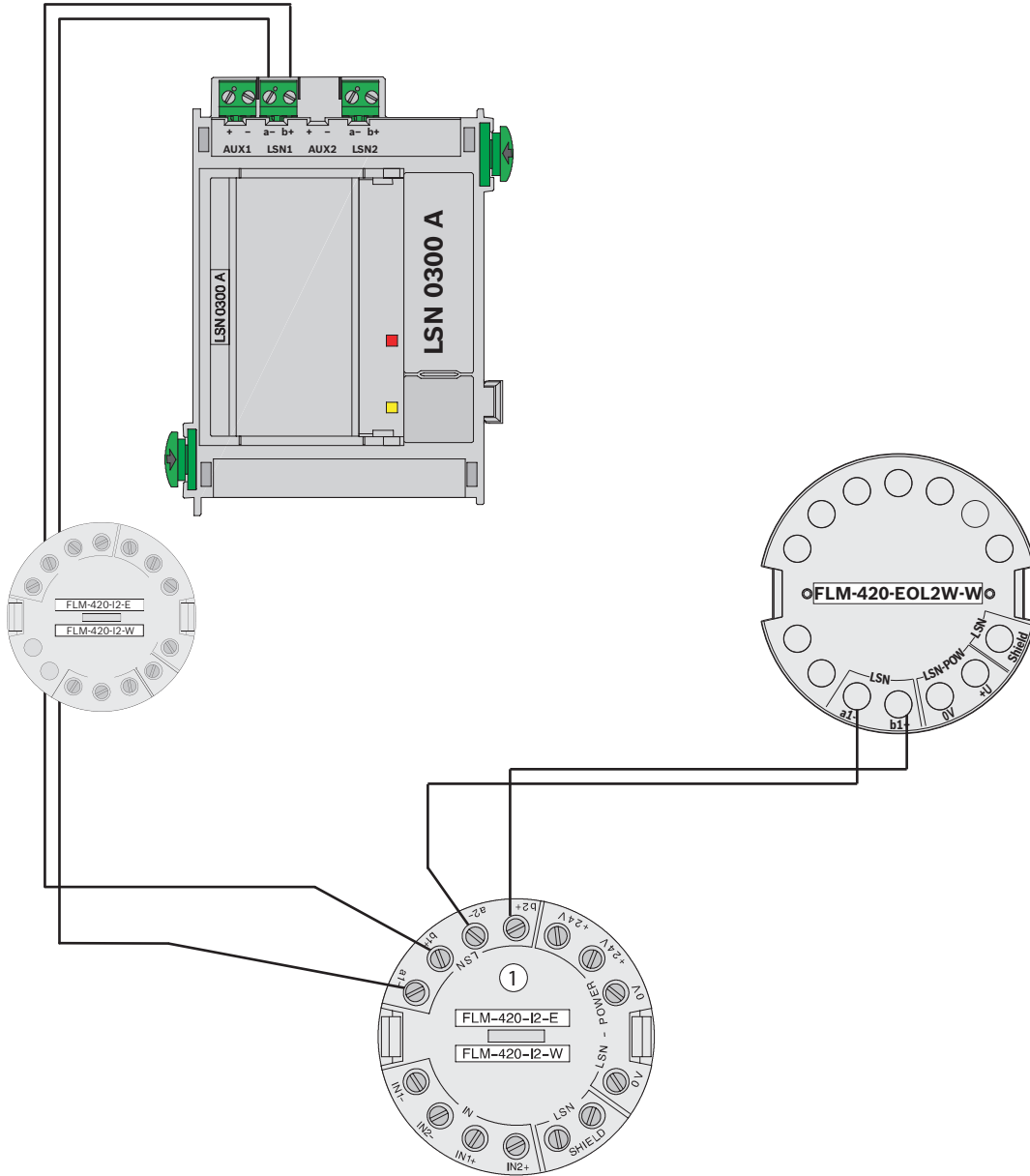


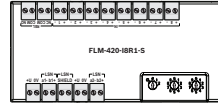
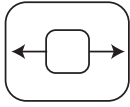


FLM-420-I2-E/W

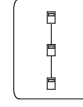


ELS VdS 2489

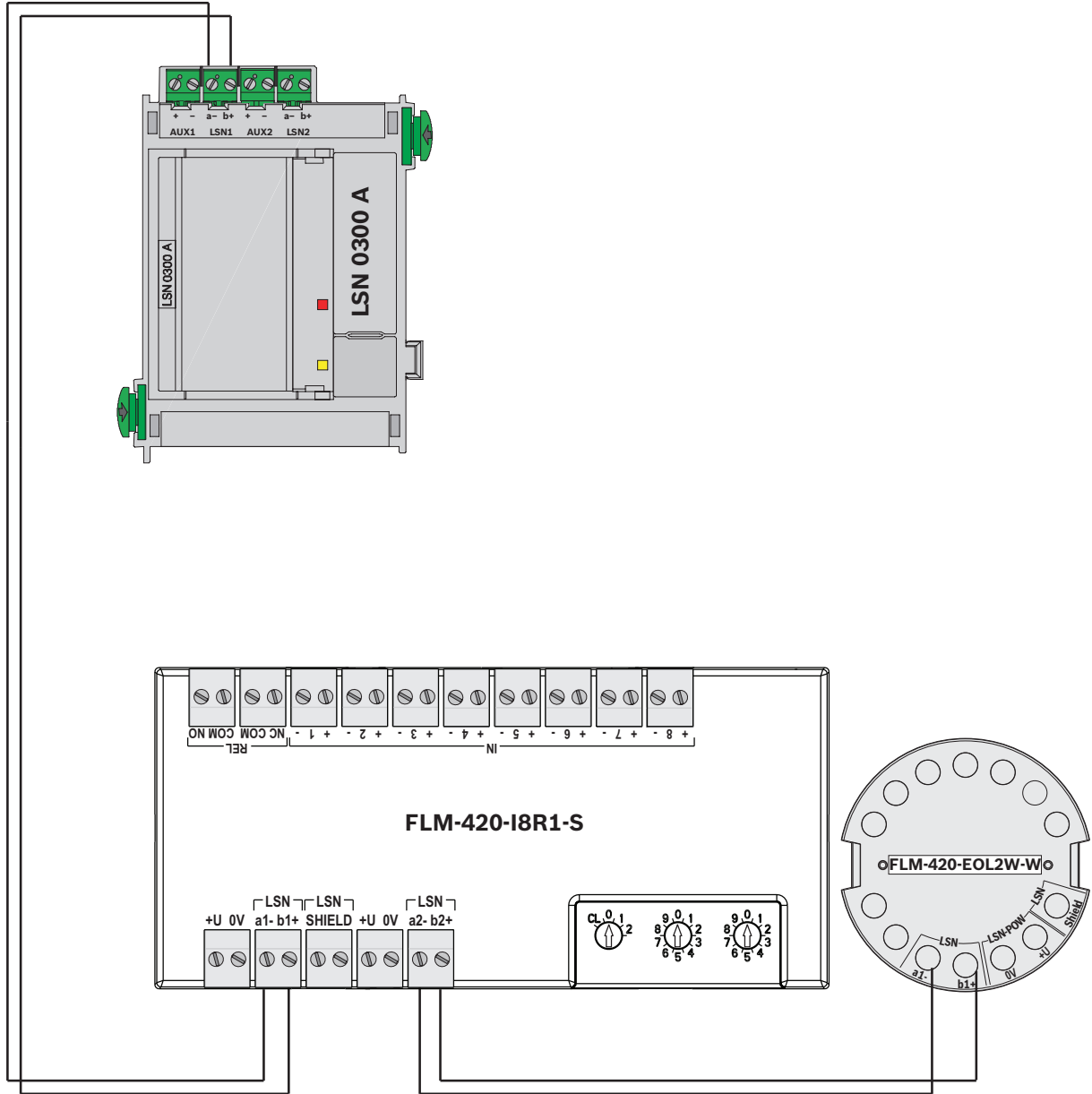


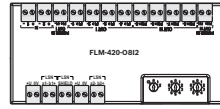
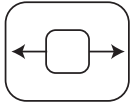


FLM-420-I8R1-S

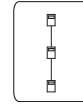


ELS VdS 2489

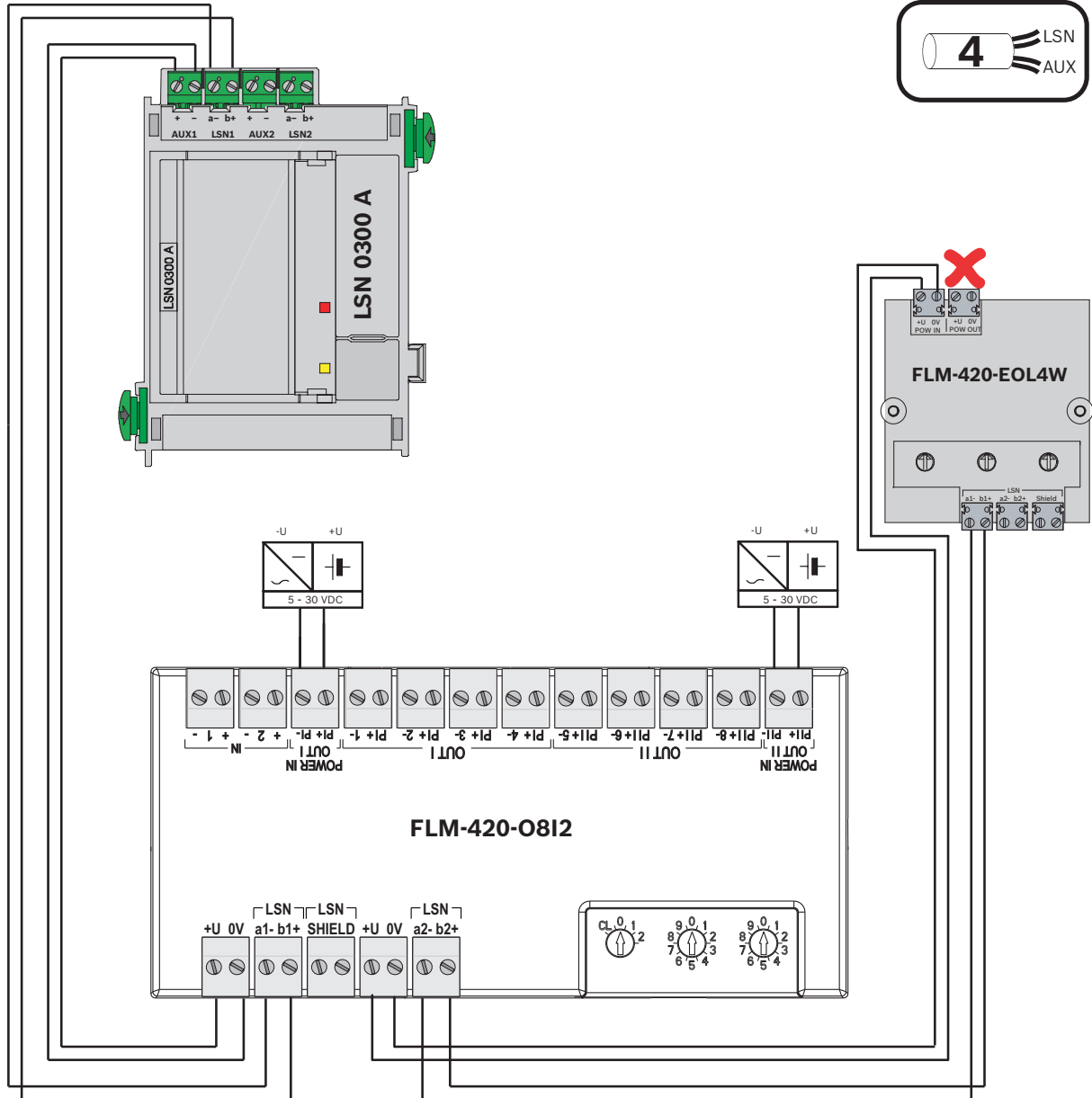


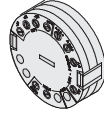
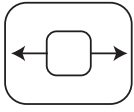


FLM-420-08I2-S

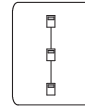


ELS VdS 2489

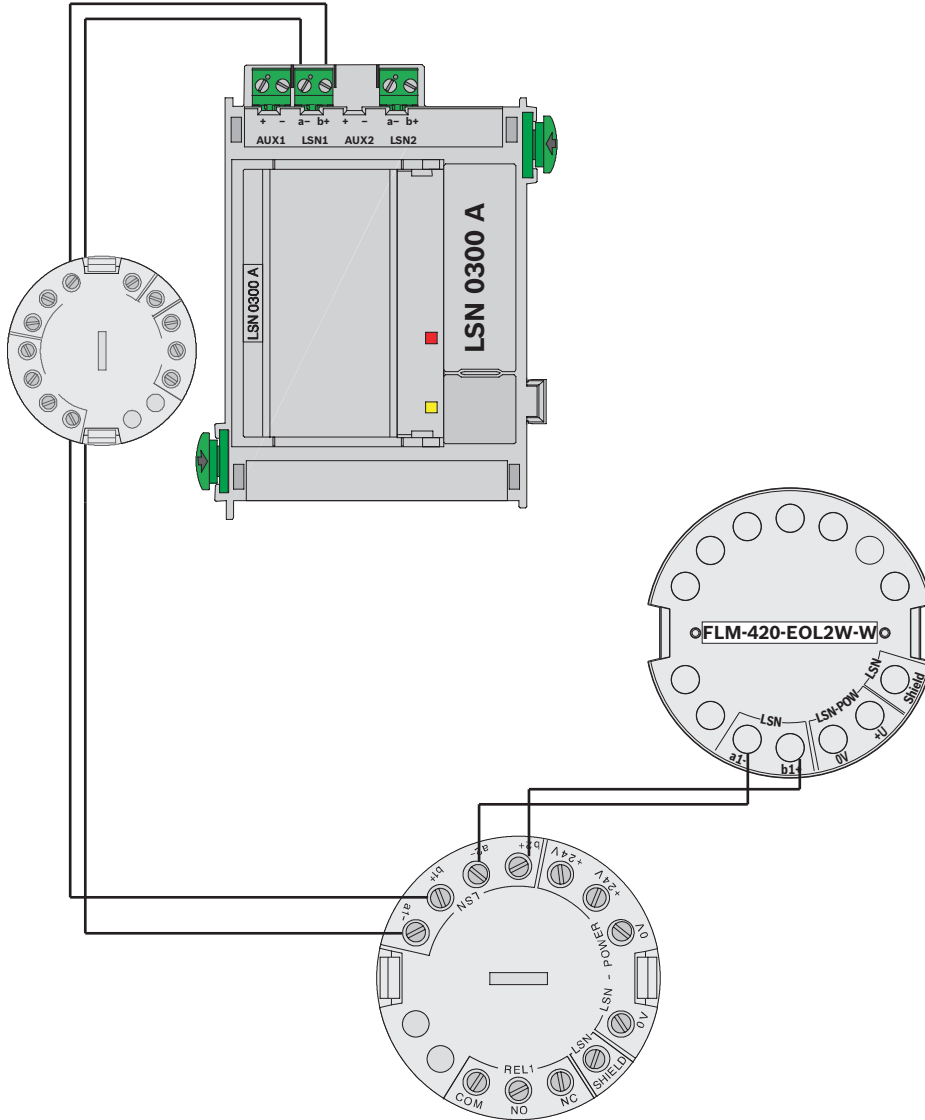


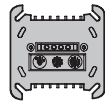
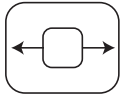


FLM-420-I2-E/-W
FLM-420-RLV1-E



ELS VdS 2489

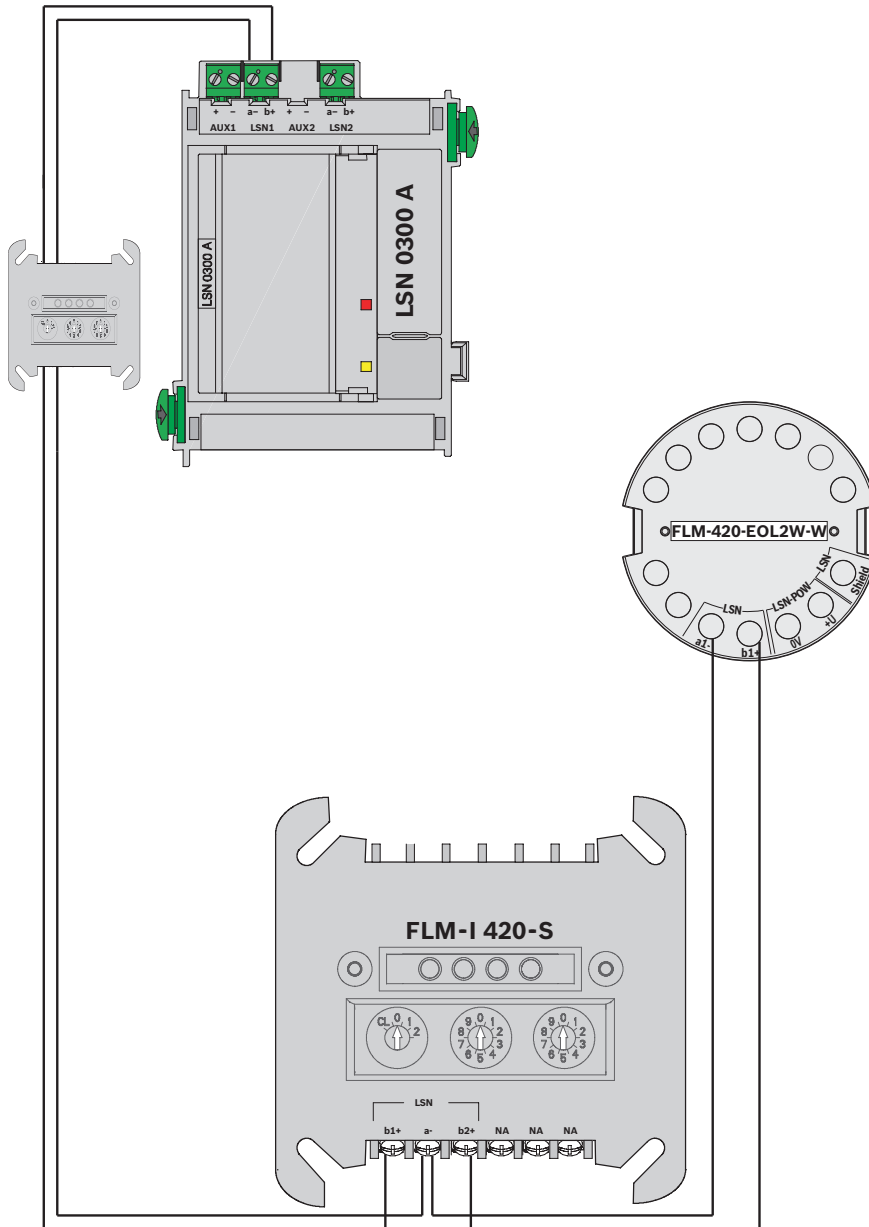


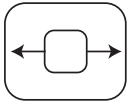


FLM-I 420-S

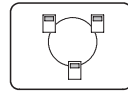


ELS VdS 2489

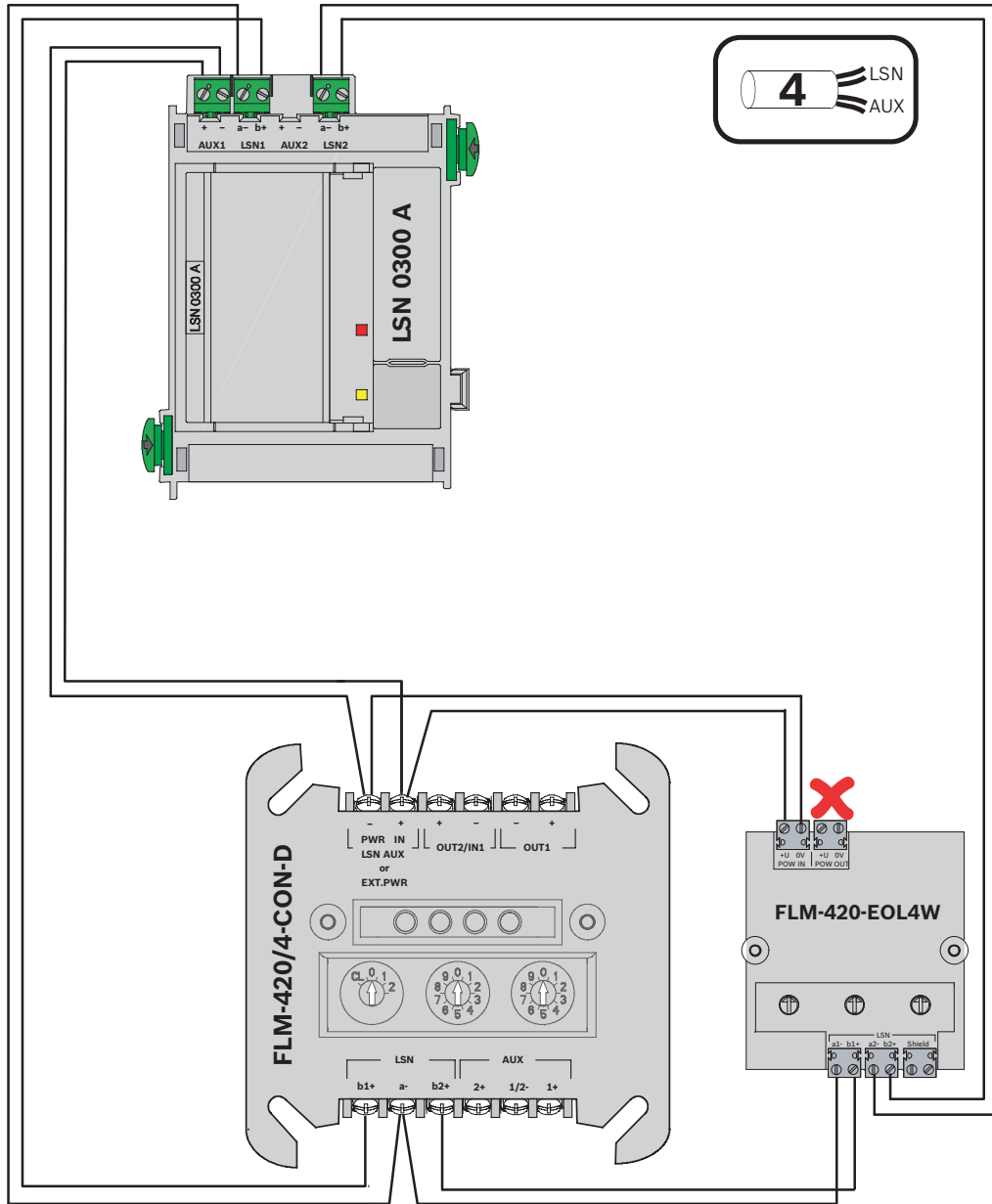


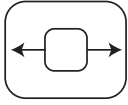


**FLM-420/
4-CON-D**

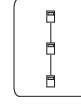


ELS VdS 2489

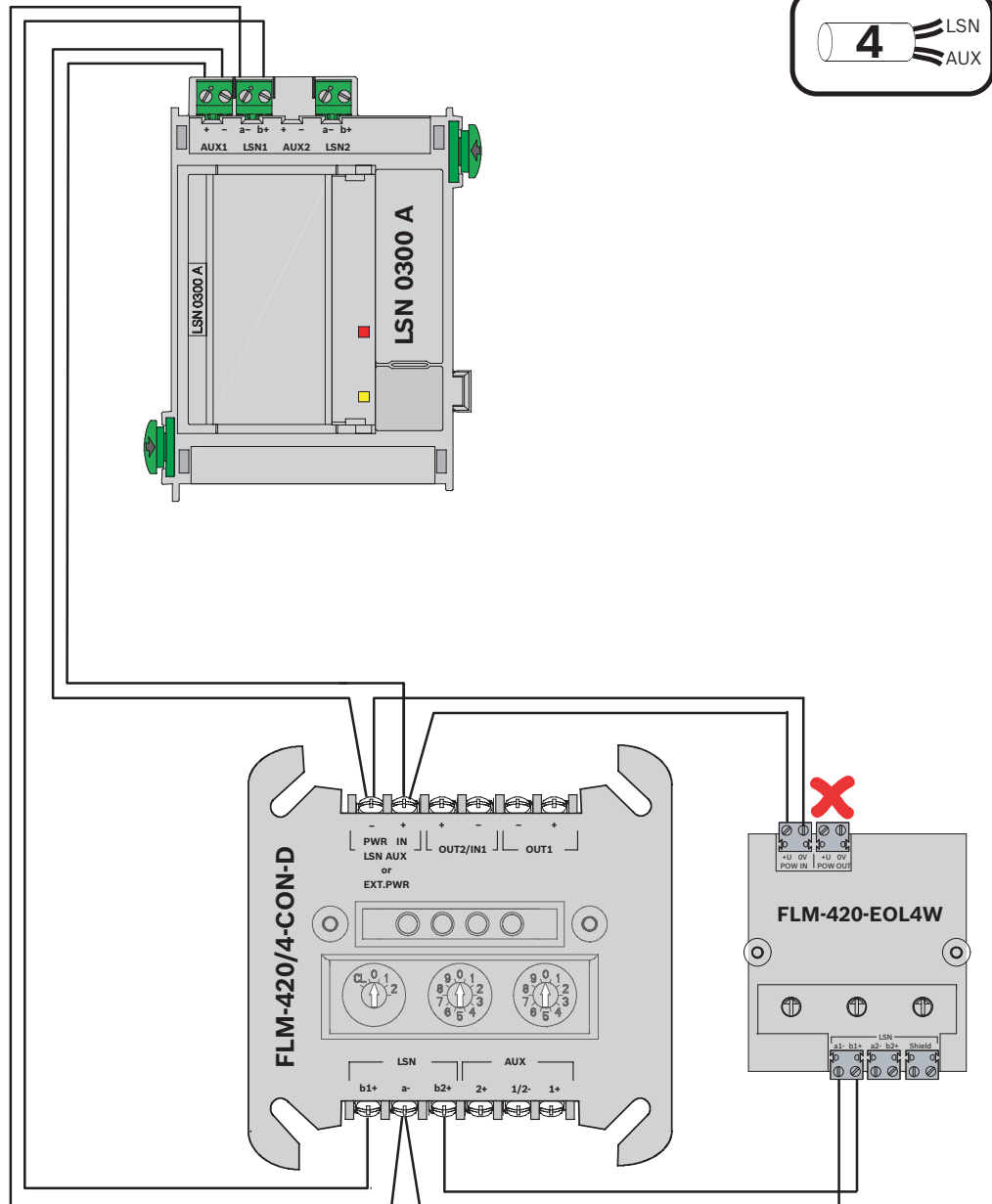


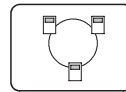
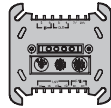
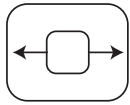


**FLM-420/
4-CON-D**

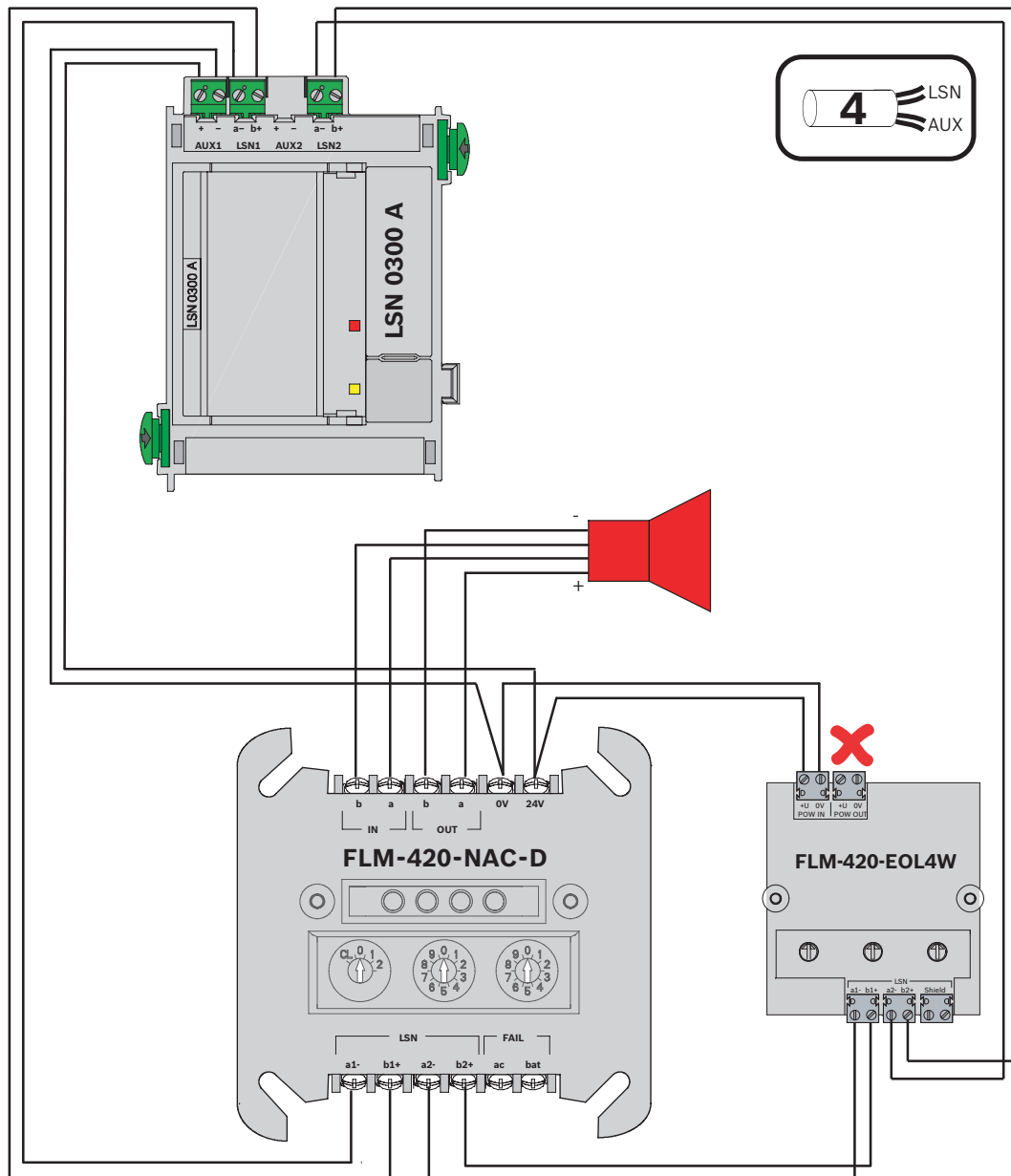


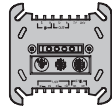
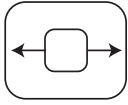
ELS VdS 2489



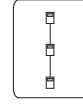


ELS VdS 2489
EN 54-2

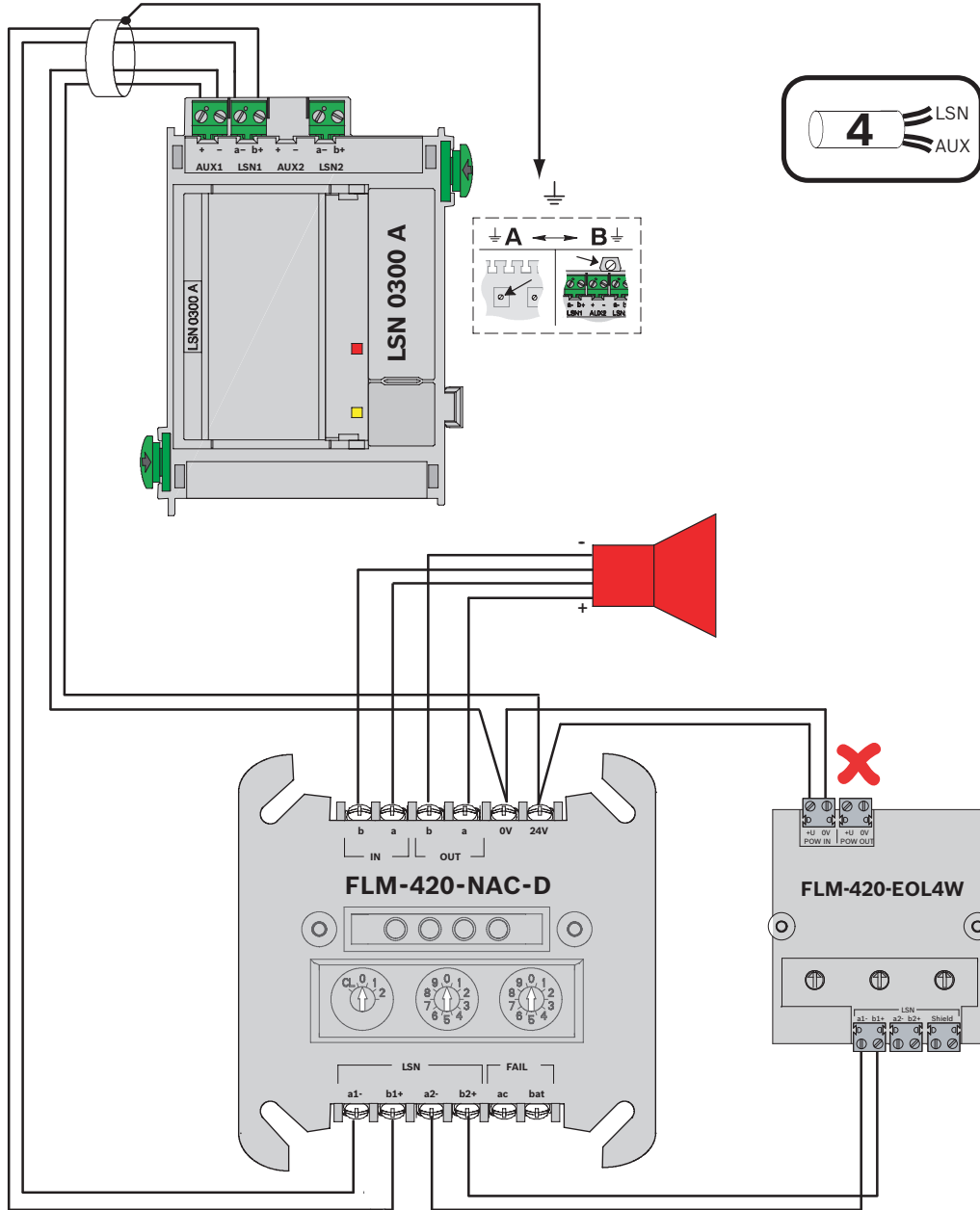


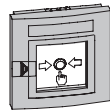
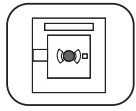


FLM-420-NAC-D/S

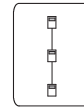


ELS VdS 2489

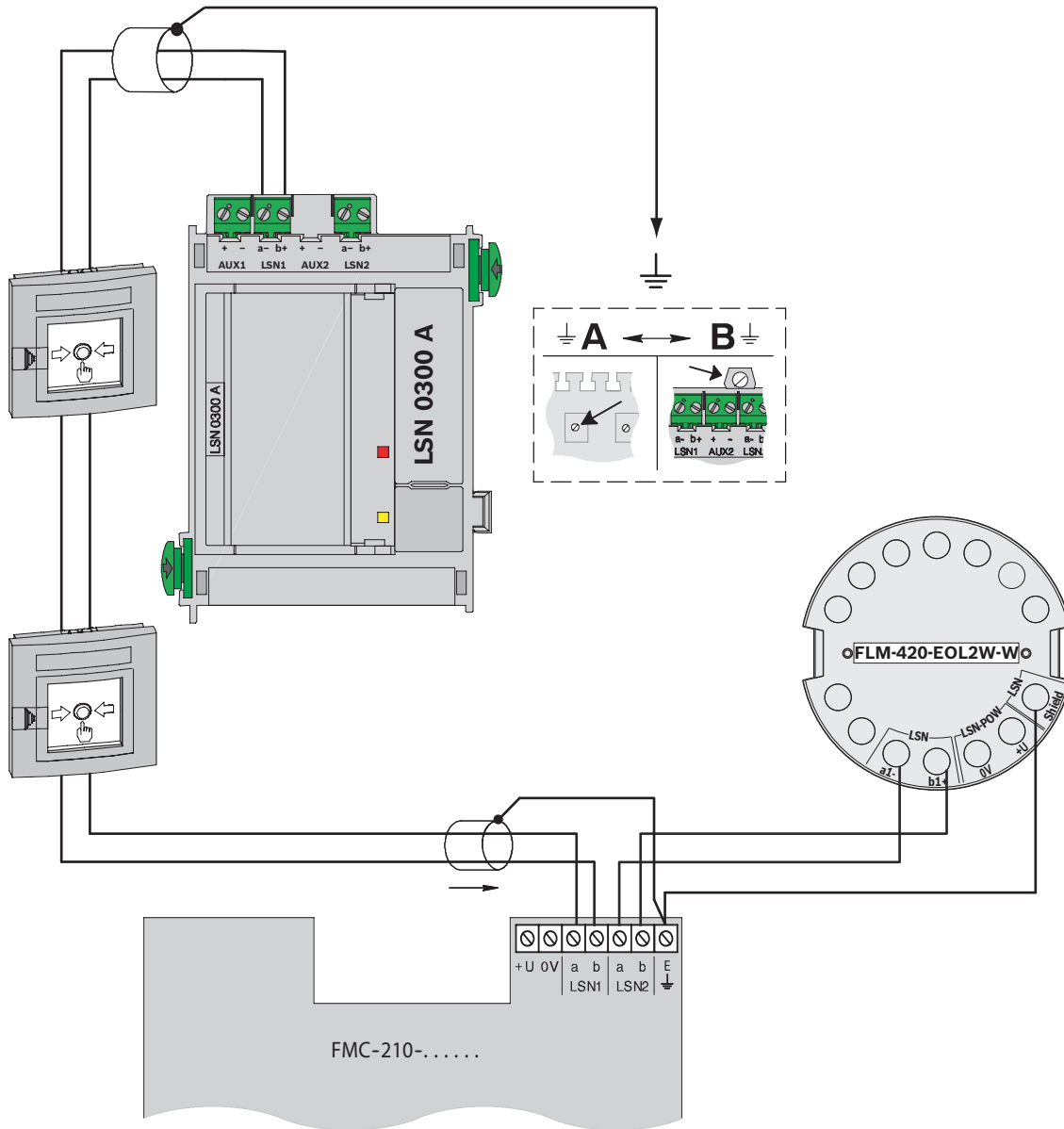


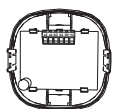


FMC-210-...

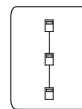


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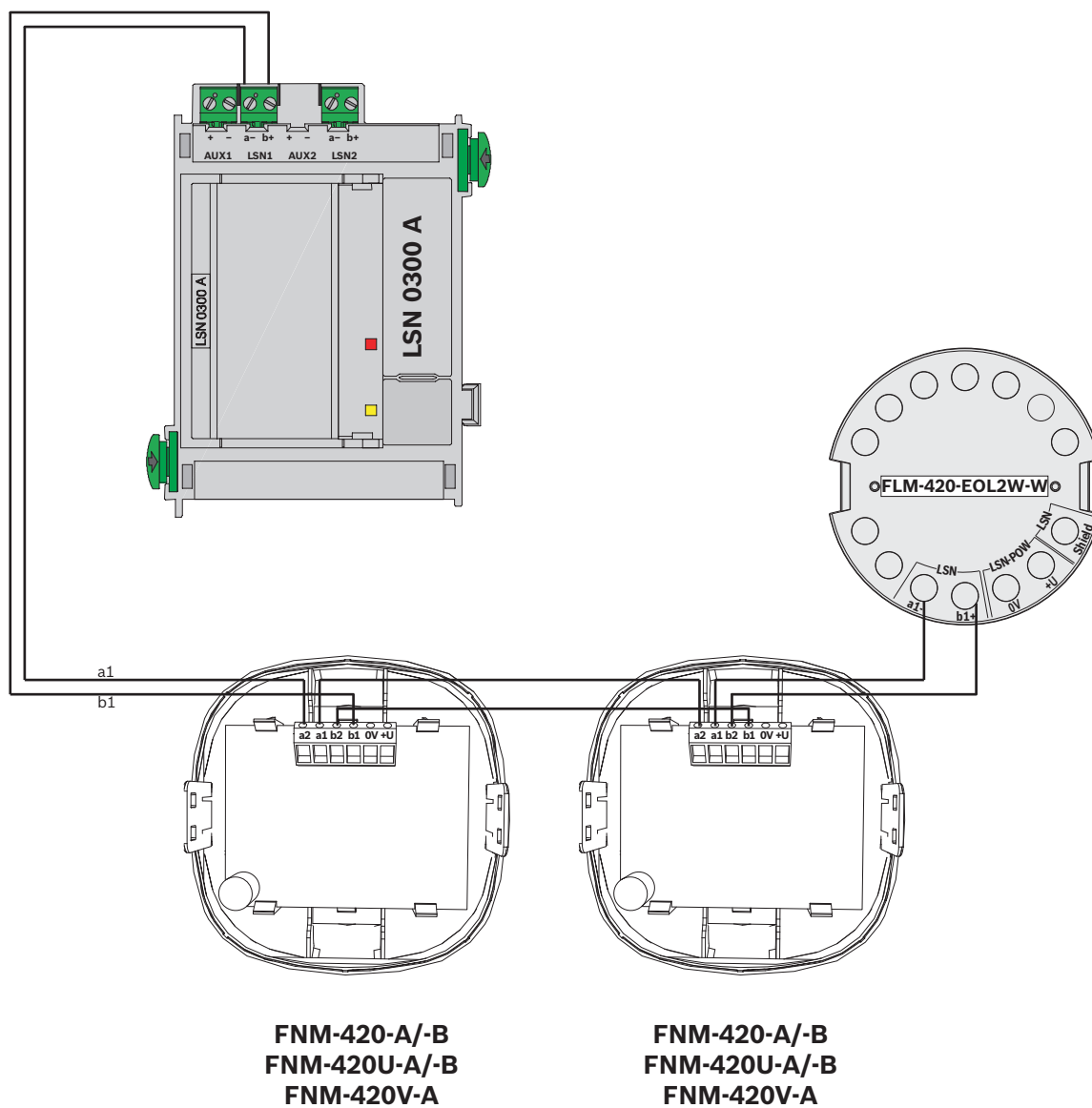




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A

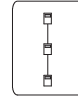


ELS VdS 2489

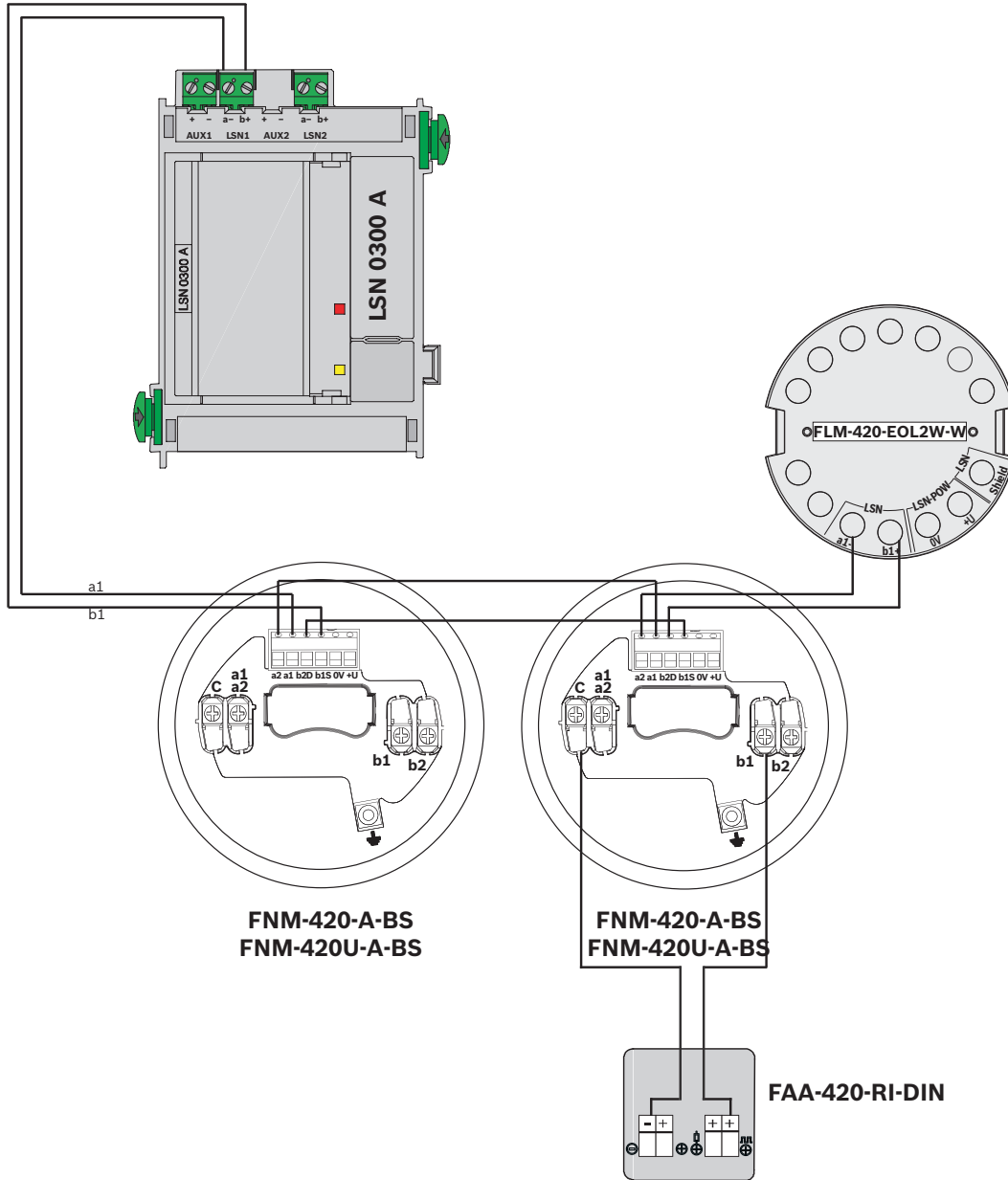




FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

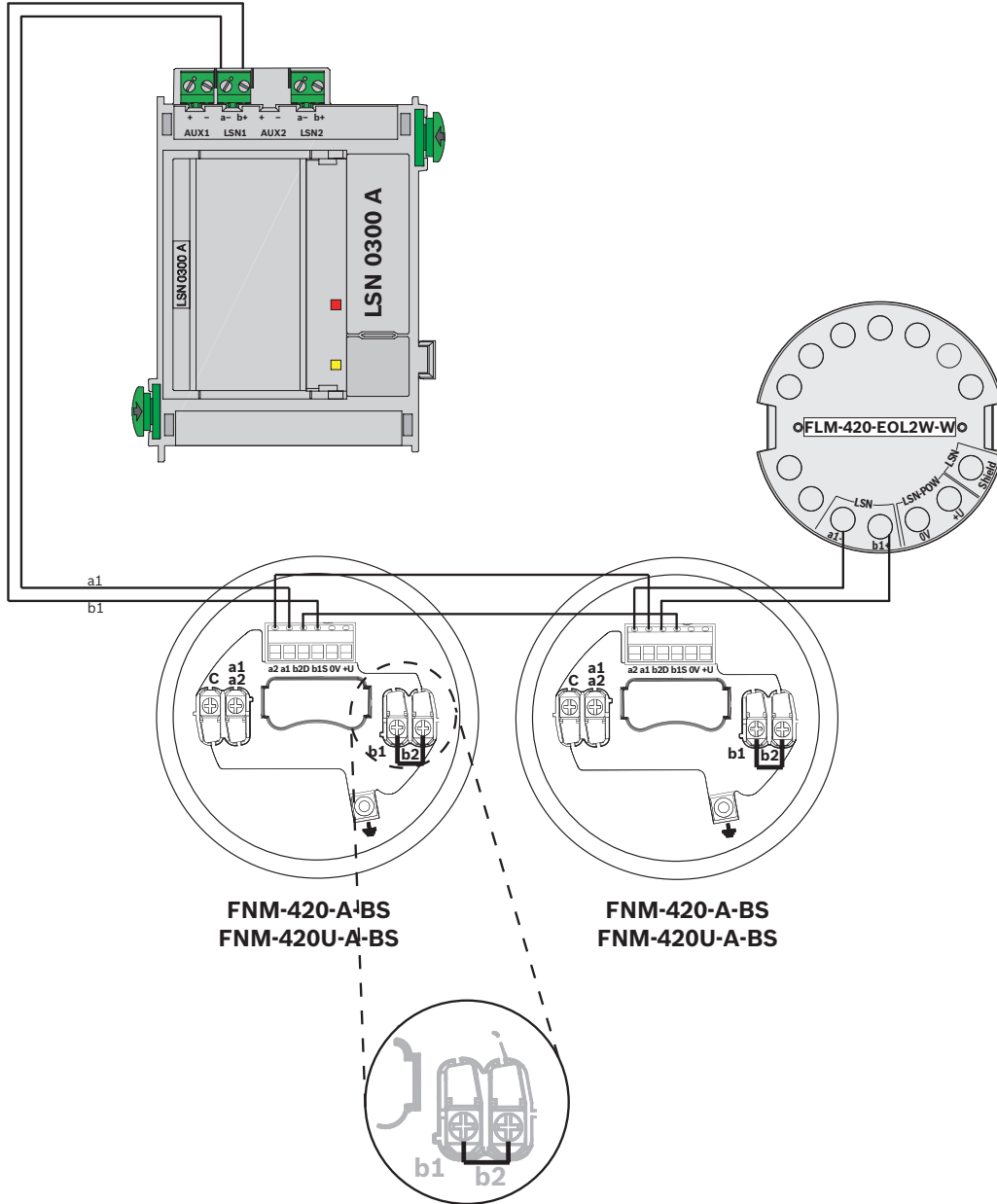


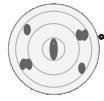


FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

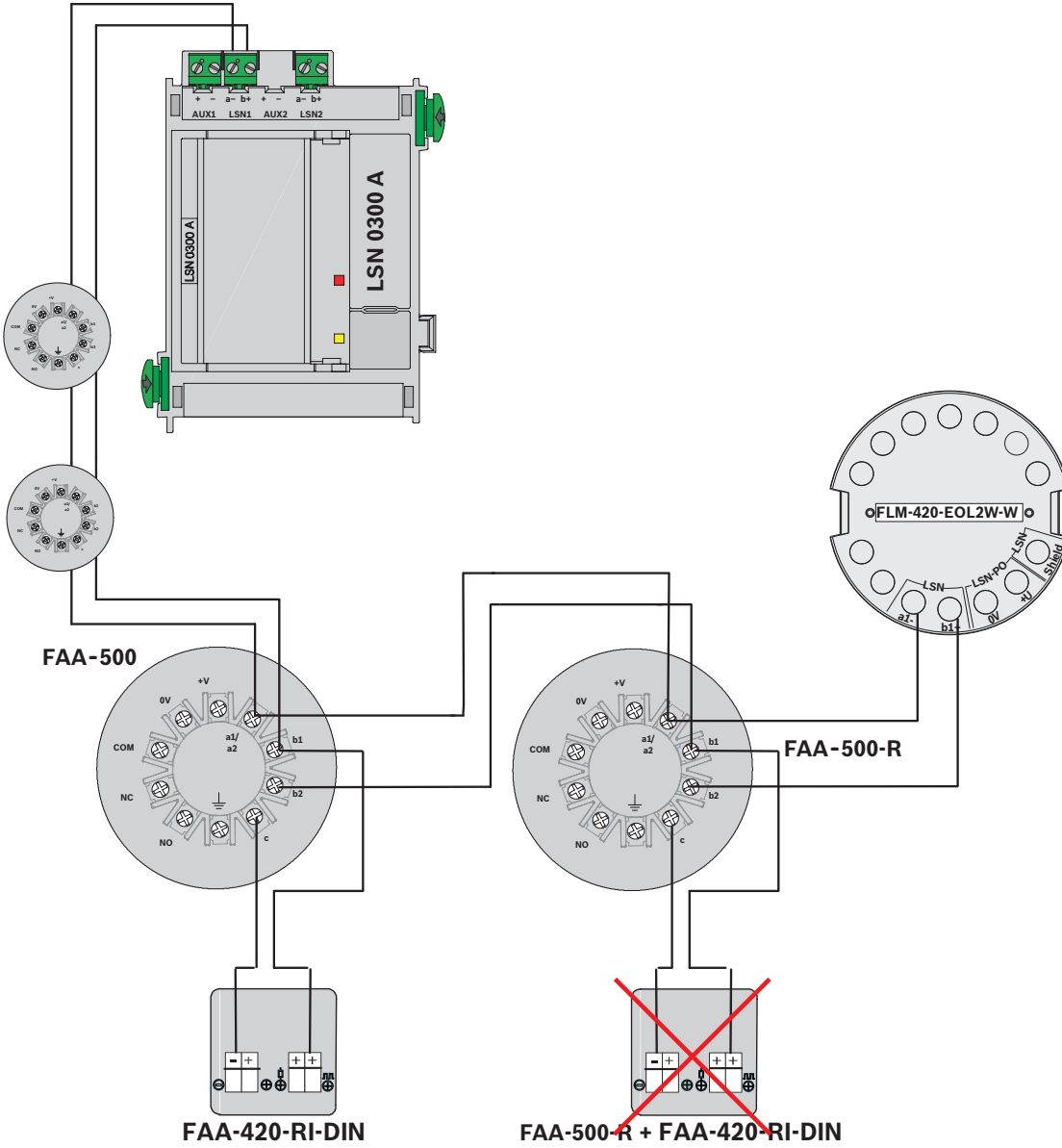




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

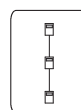


ELS VdS 2489

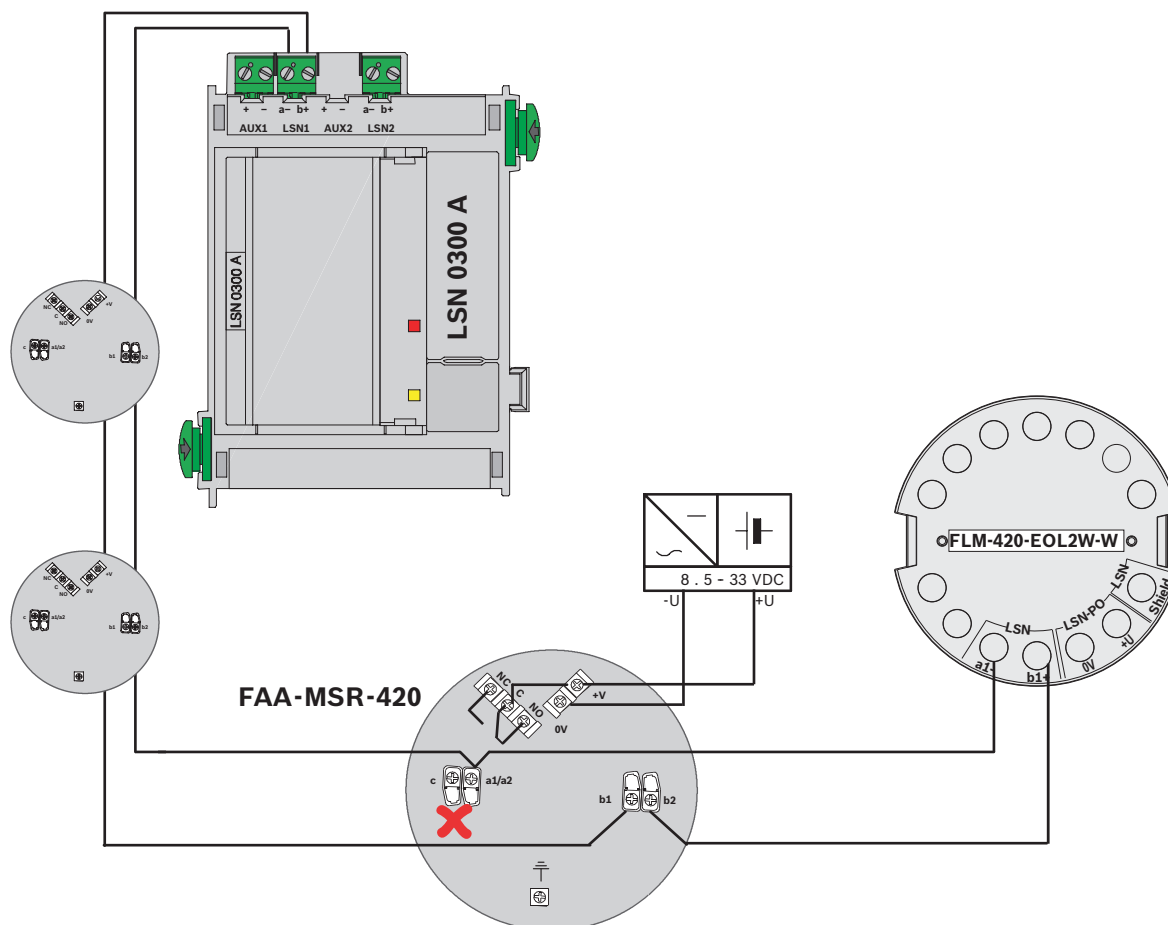




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R



ELS VdS 2489

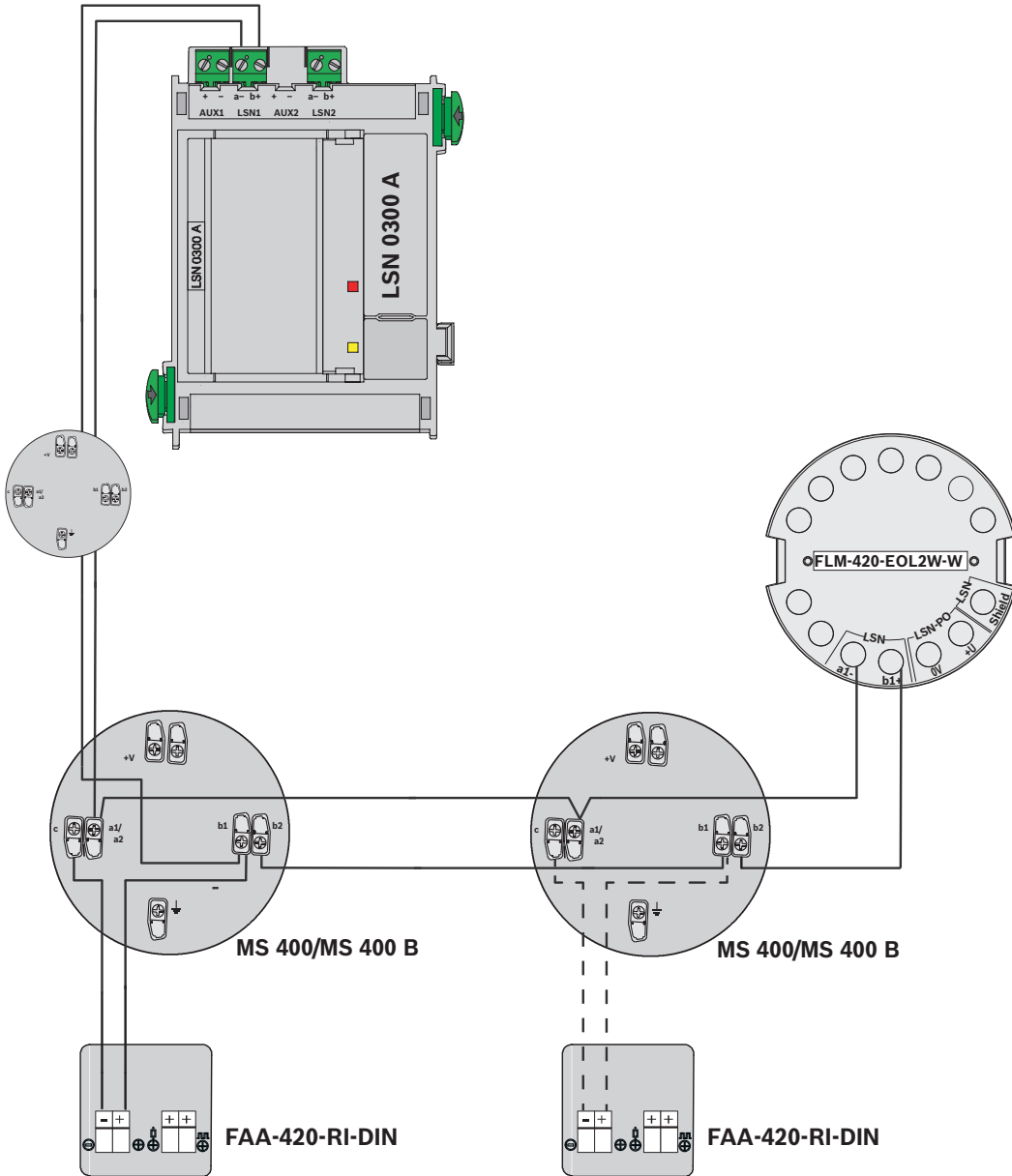


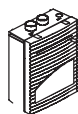


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470

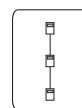


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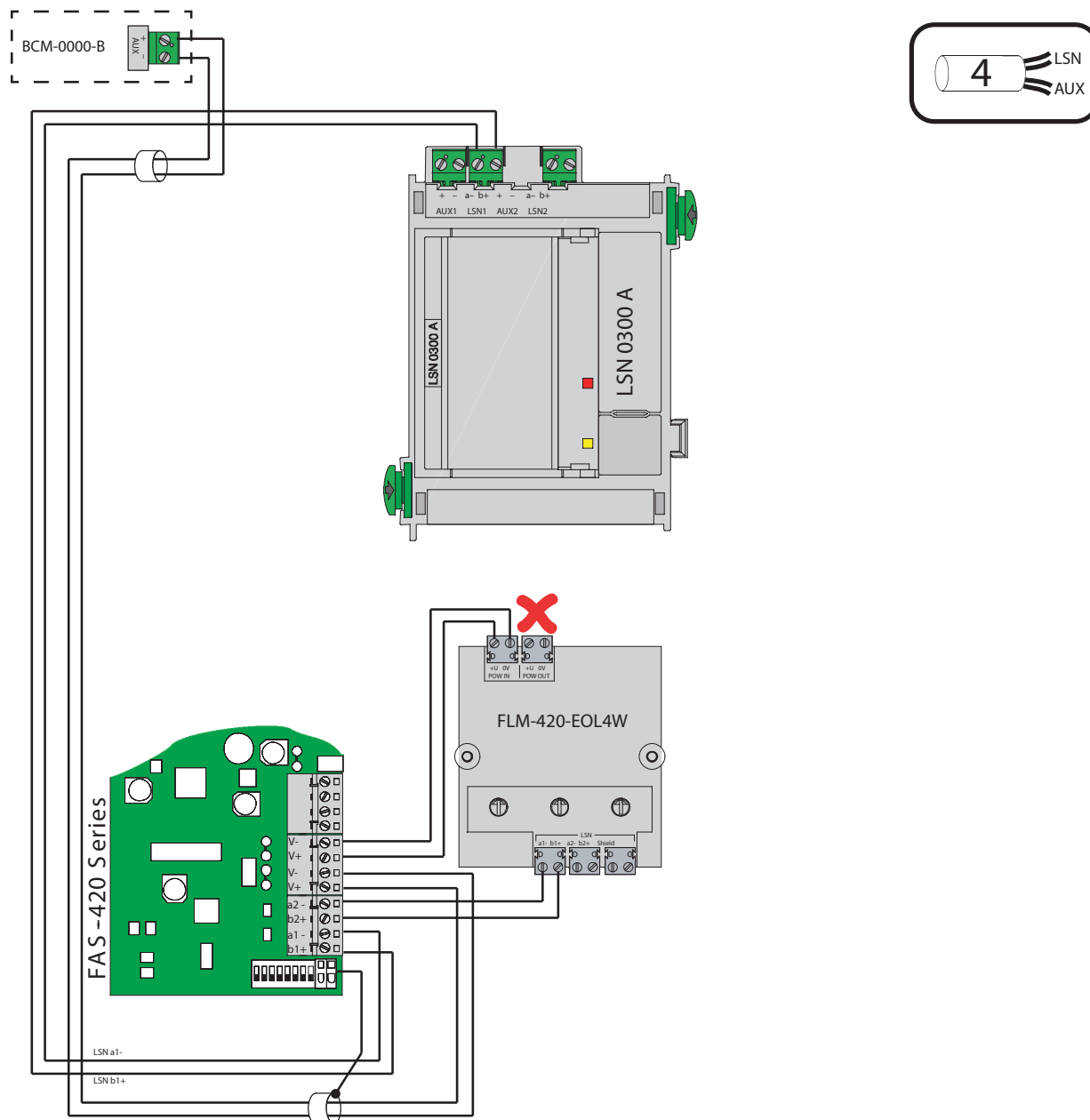


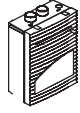
FAS-420 Series



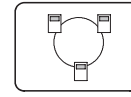
ELS

VdS 2489



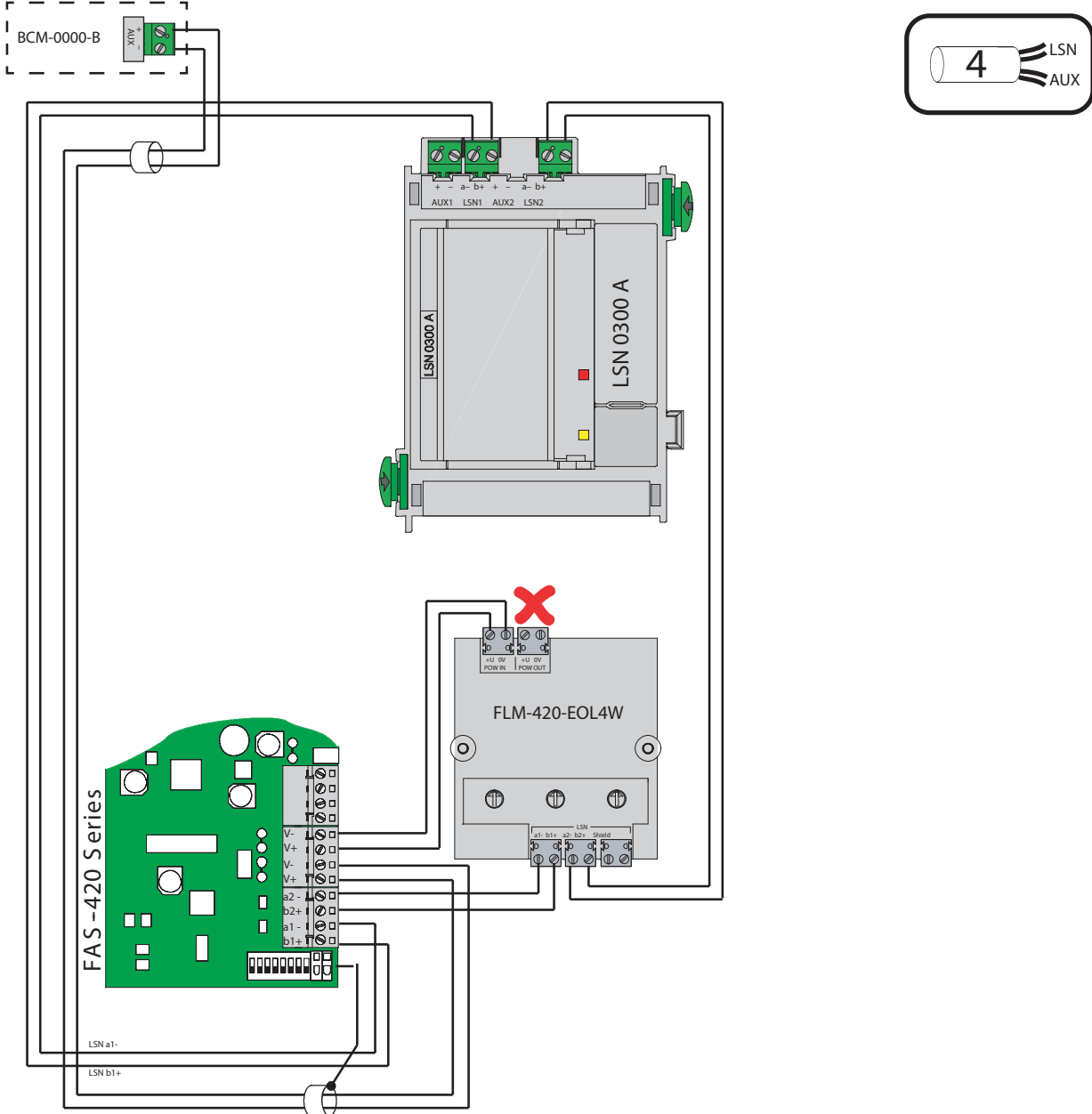


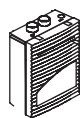
FAS-420 Series



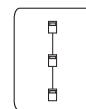
ELS

VdS 2489

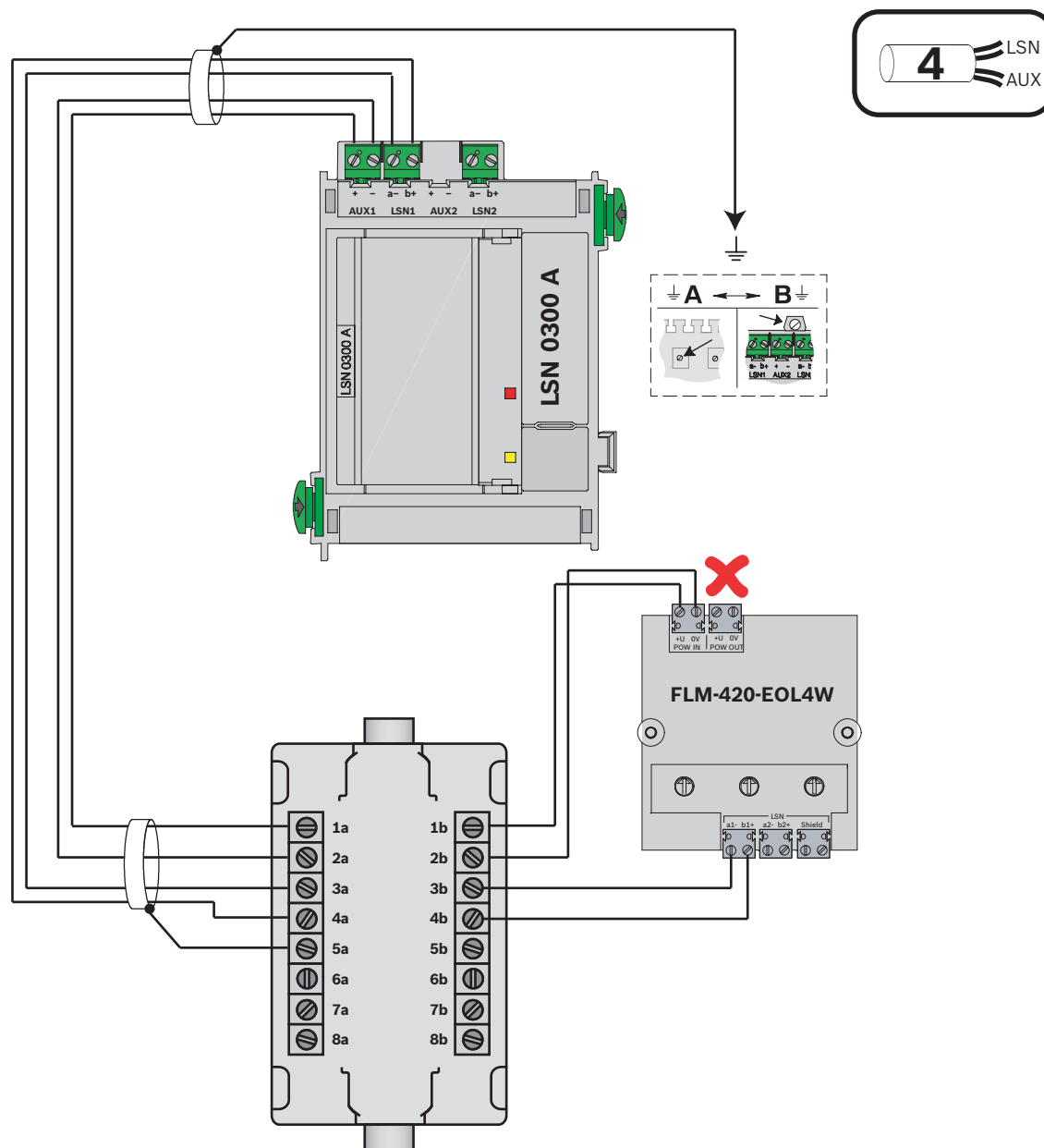


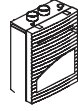


FAS-420-TM Series

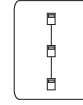


ELS VdS 2489

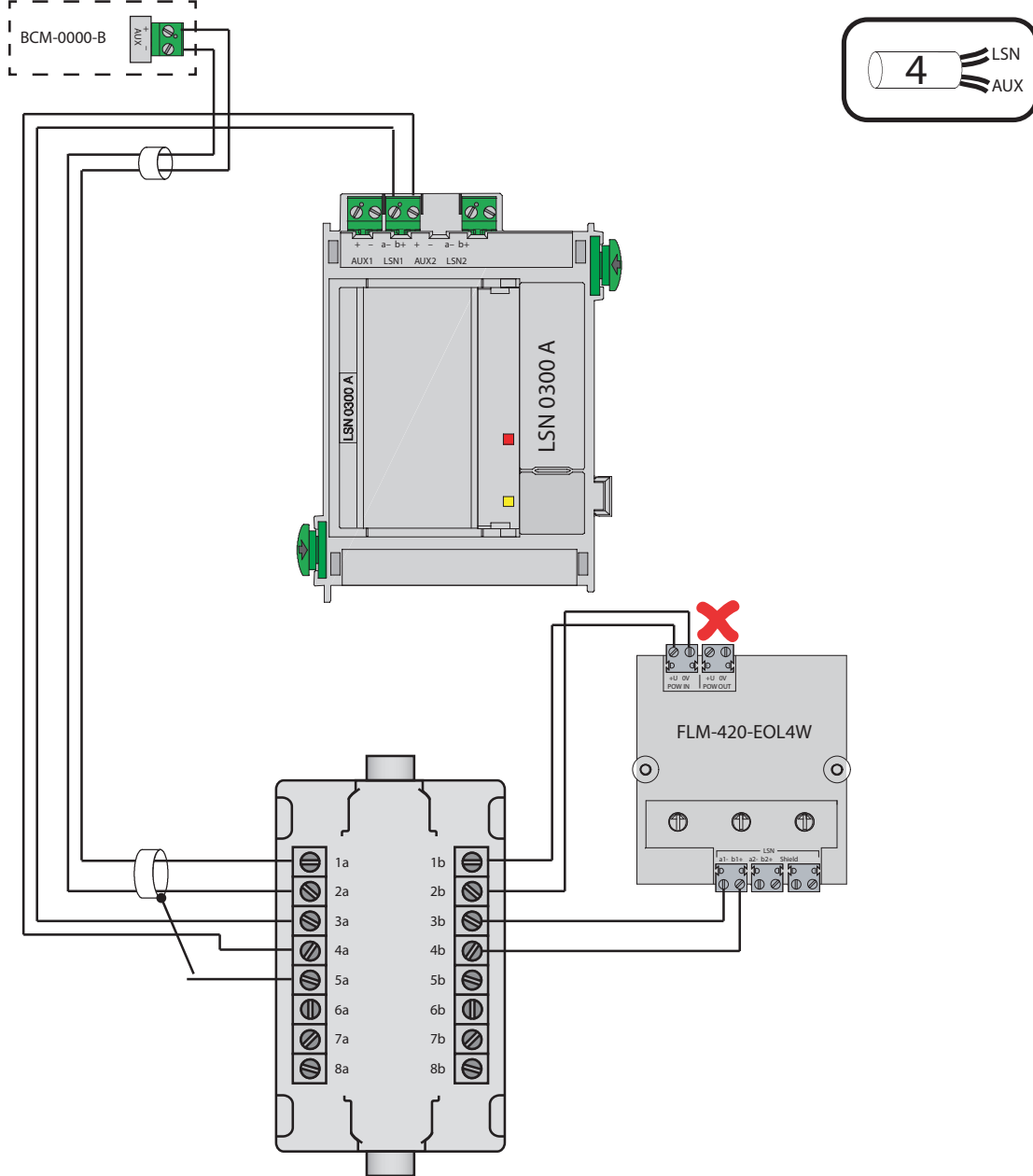


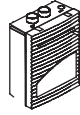


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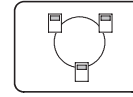


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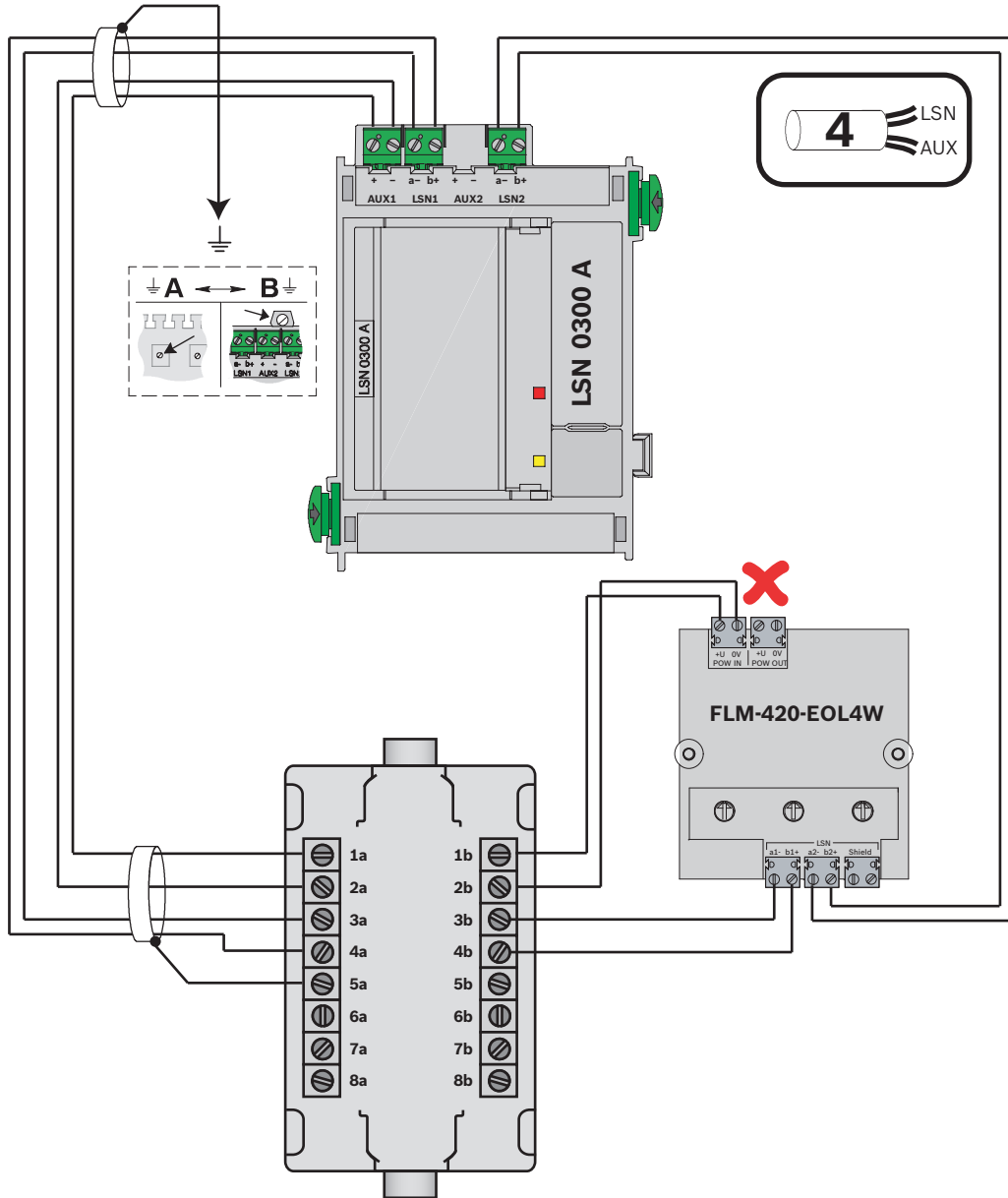


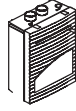


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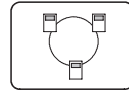


ELS VdS 2489



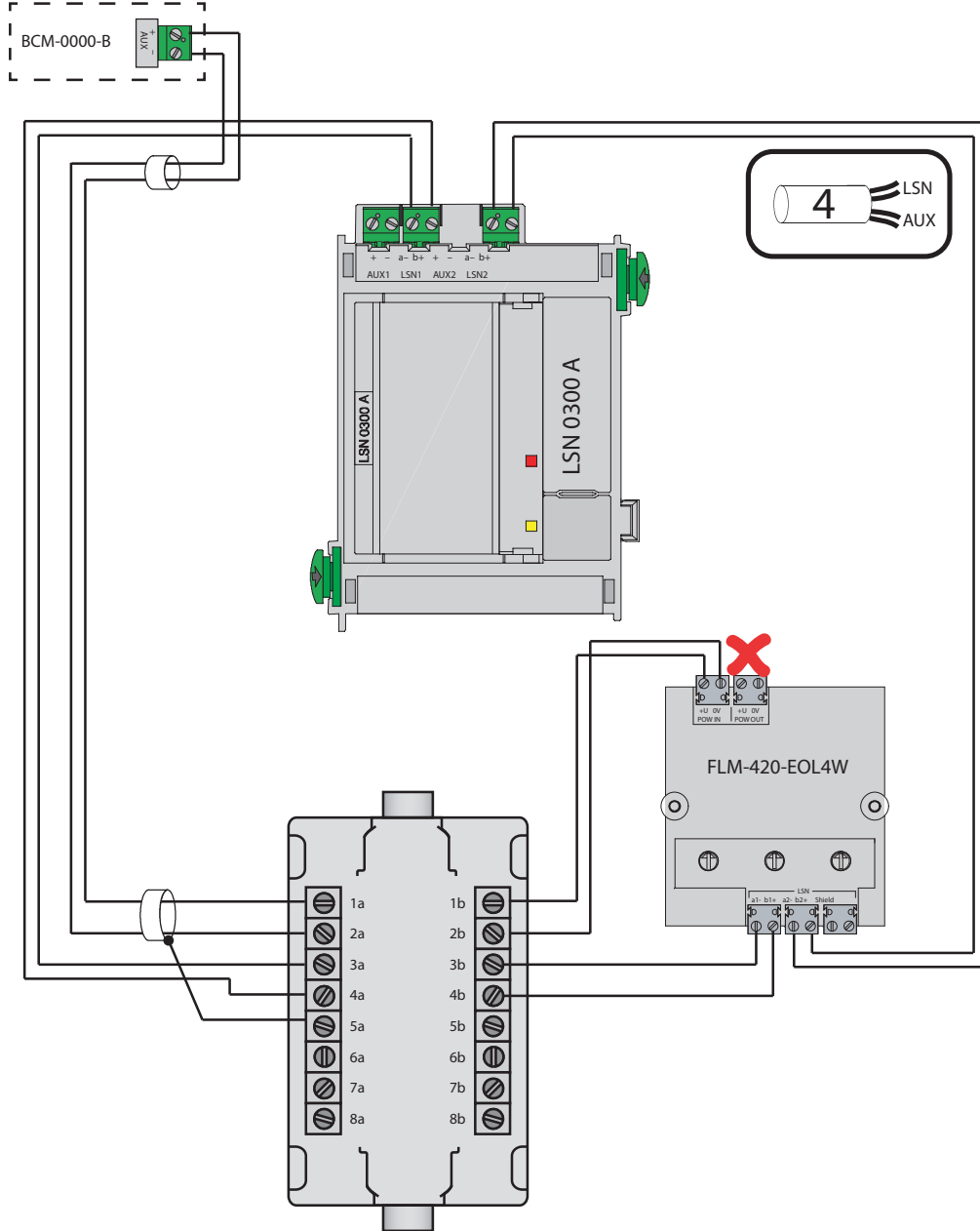


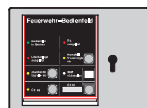
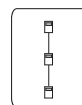
FAS-420-TM Series



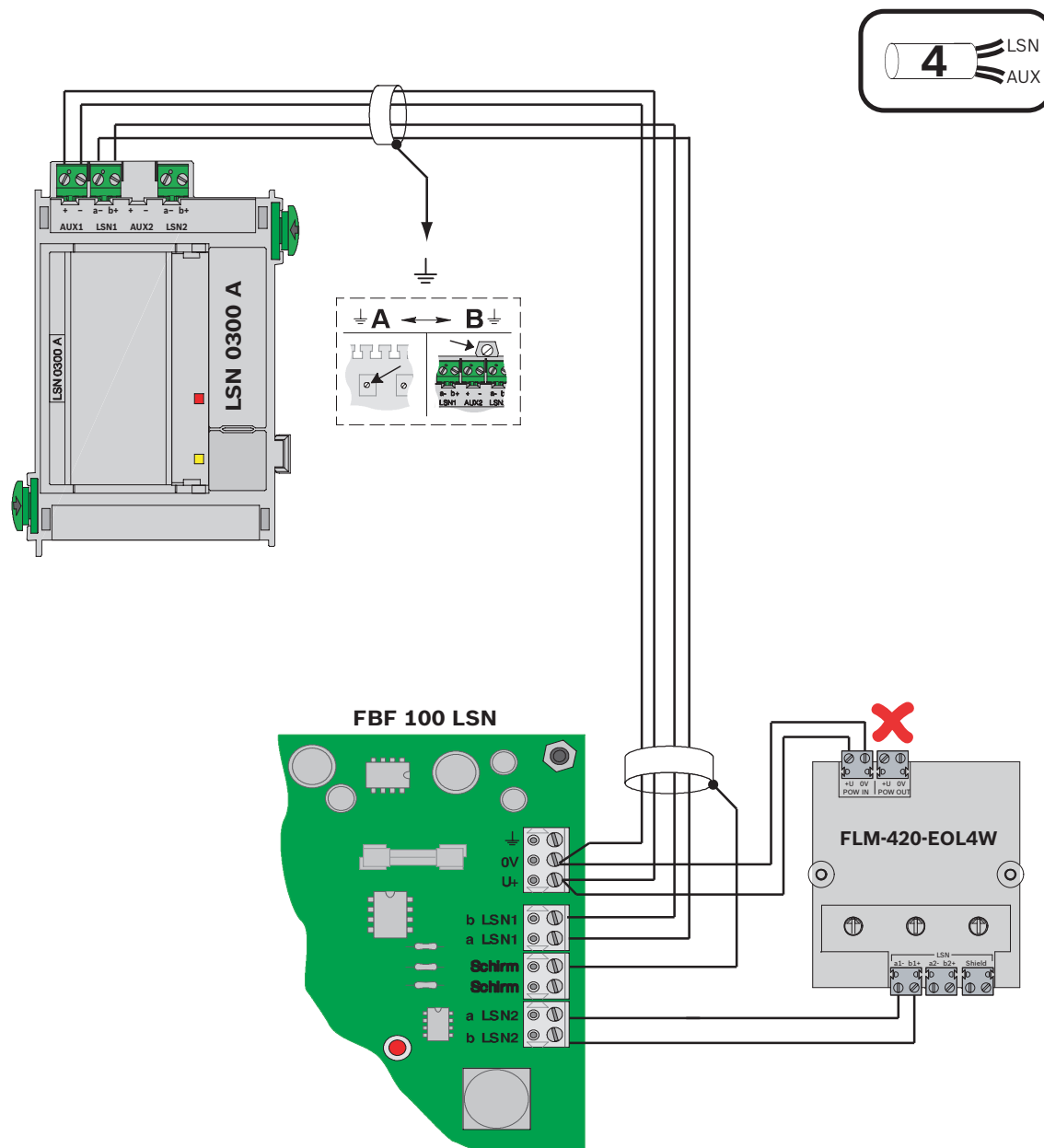
ELS

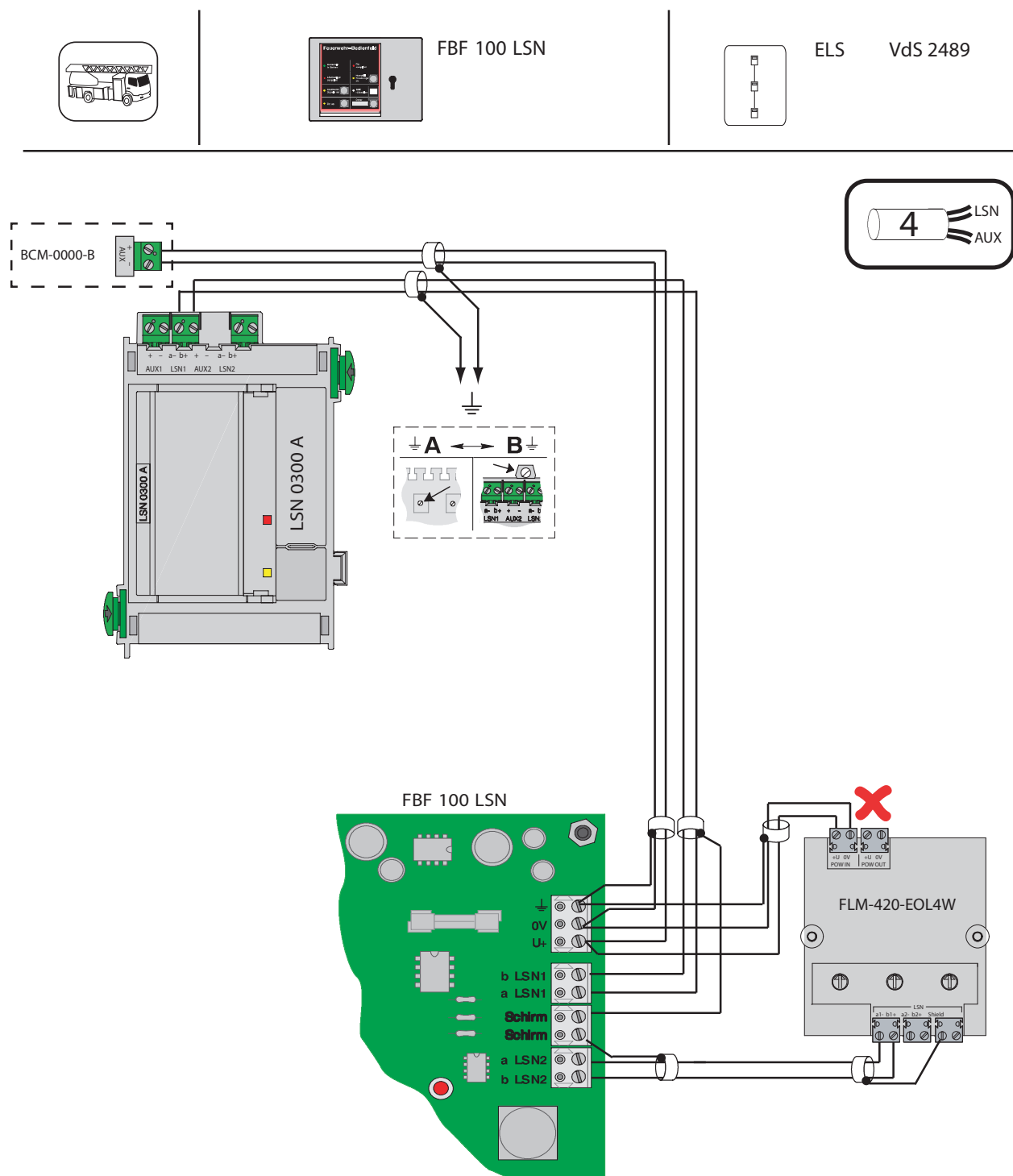
VdS 2489



**FBF 100 LSN**

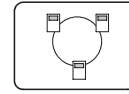
ELS VdS 2489



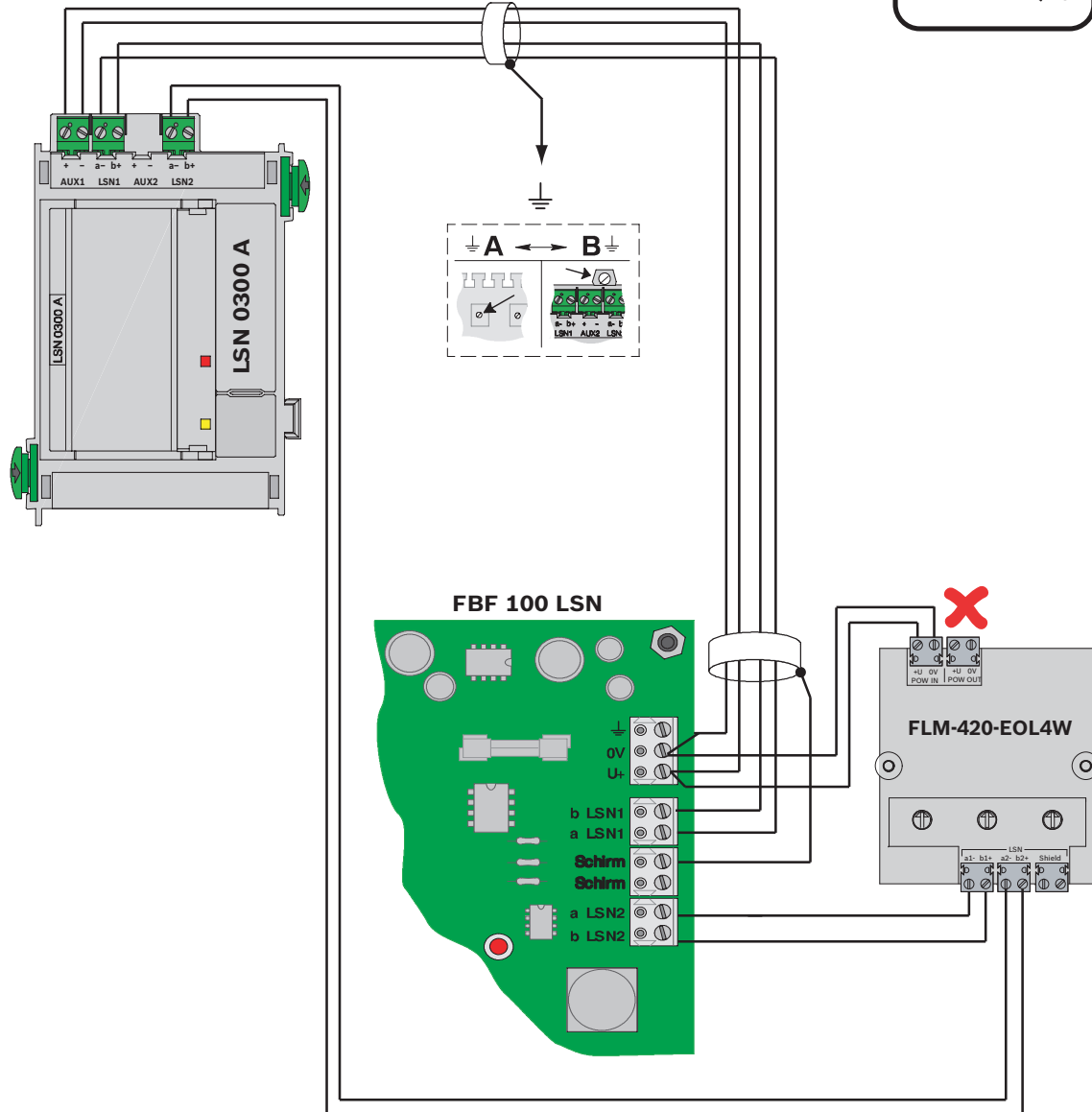




FBF 100 LSN

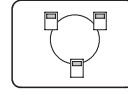


ELS VdS 2489

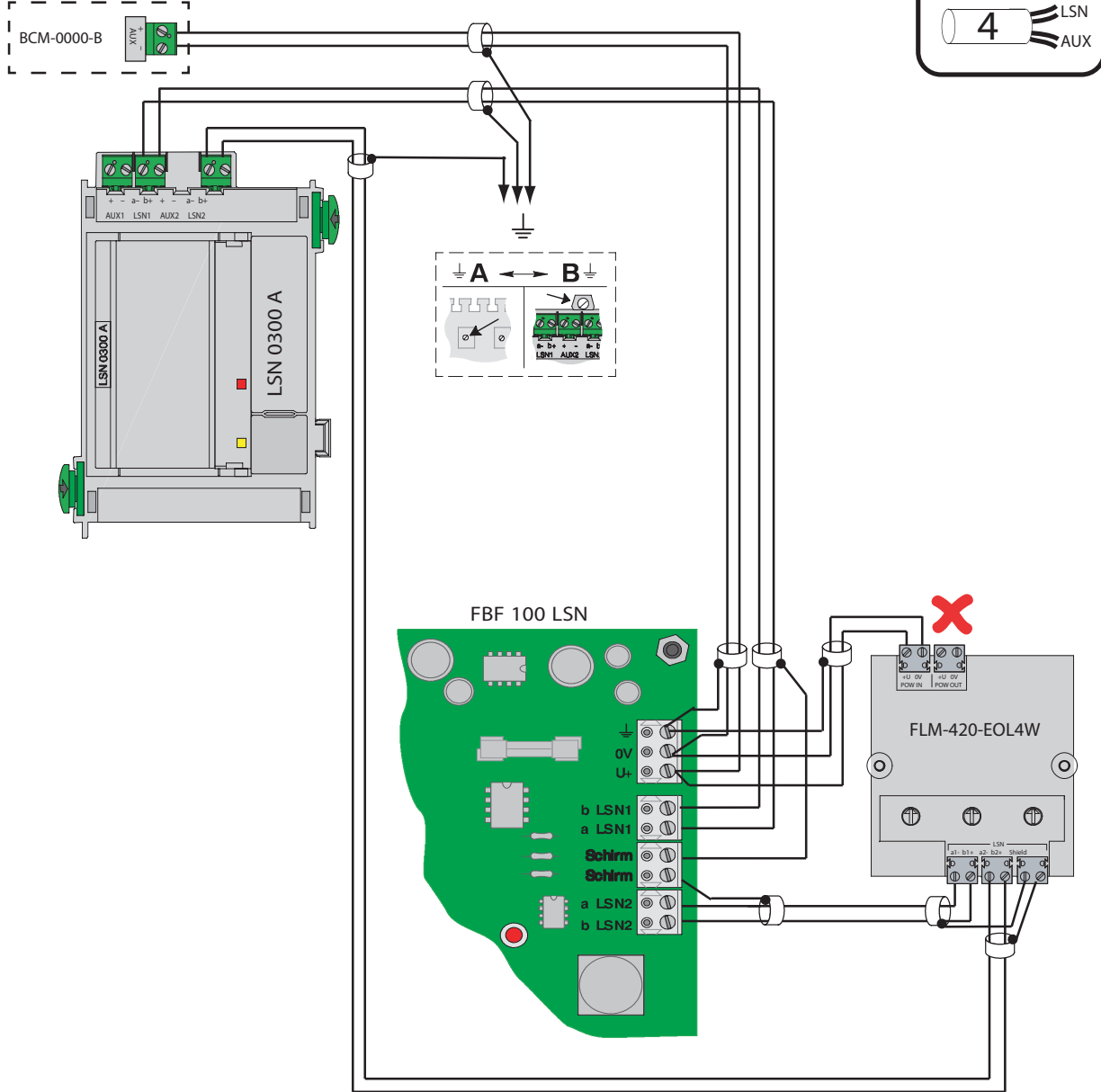


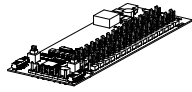


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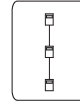


ELS VdS 2489

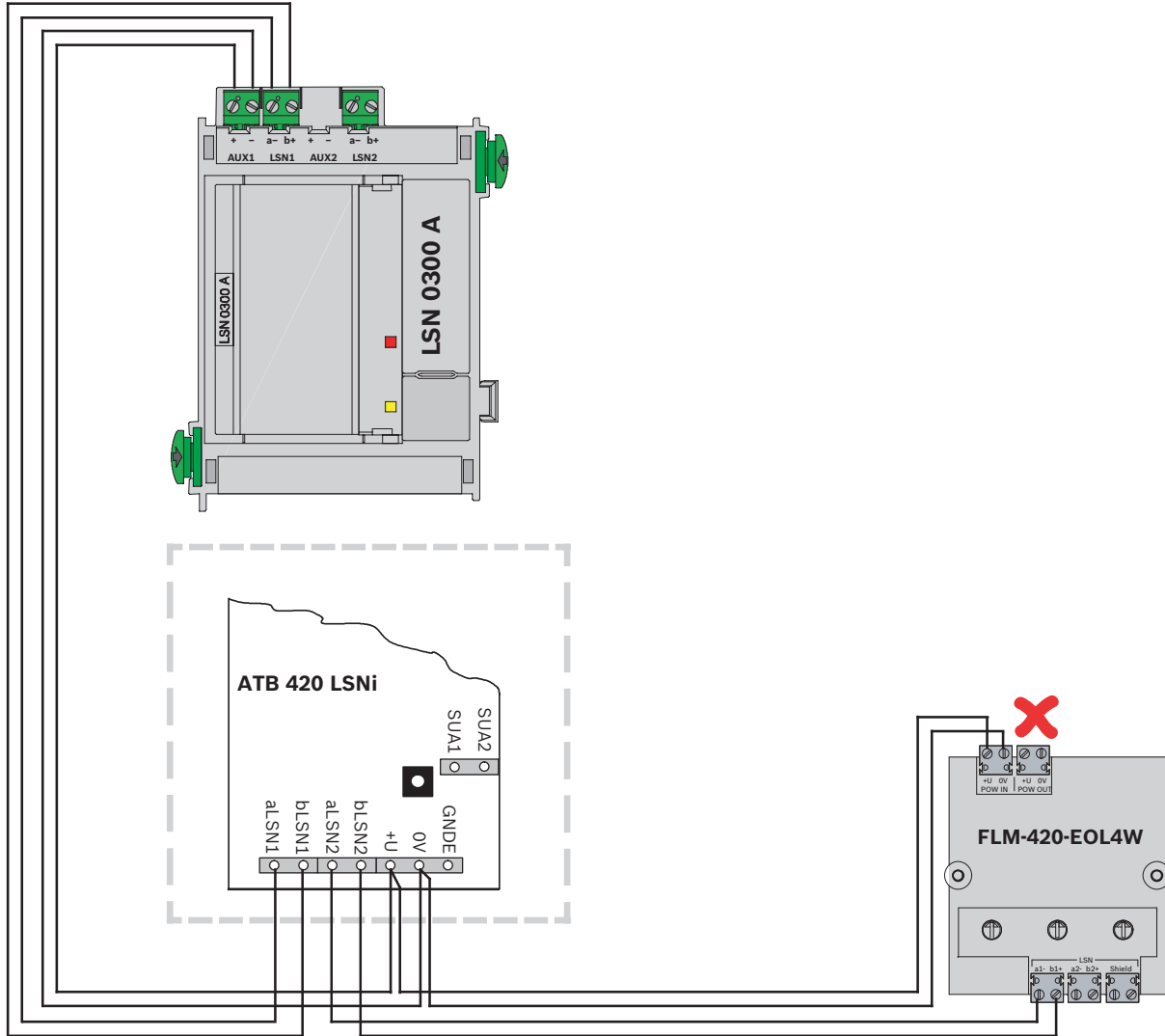


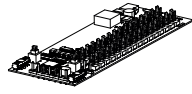


ATB 420 LSNi

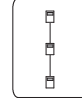


ELS VdS 2489

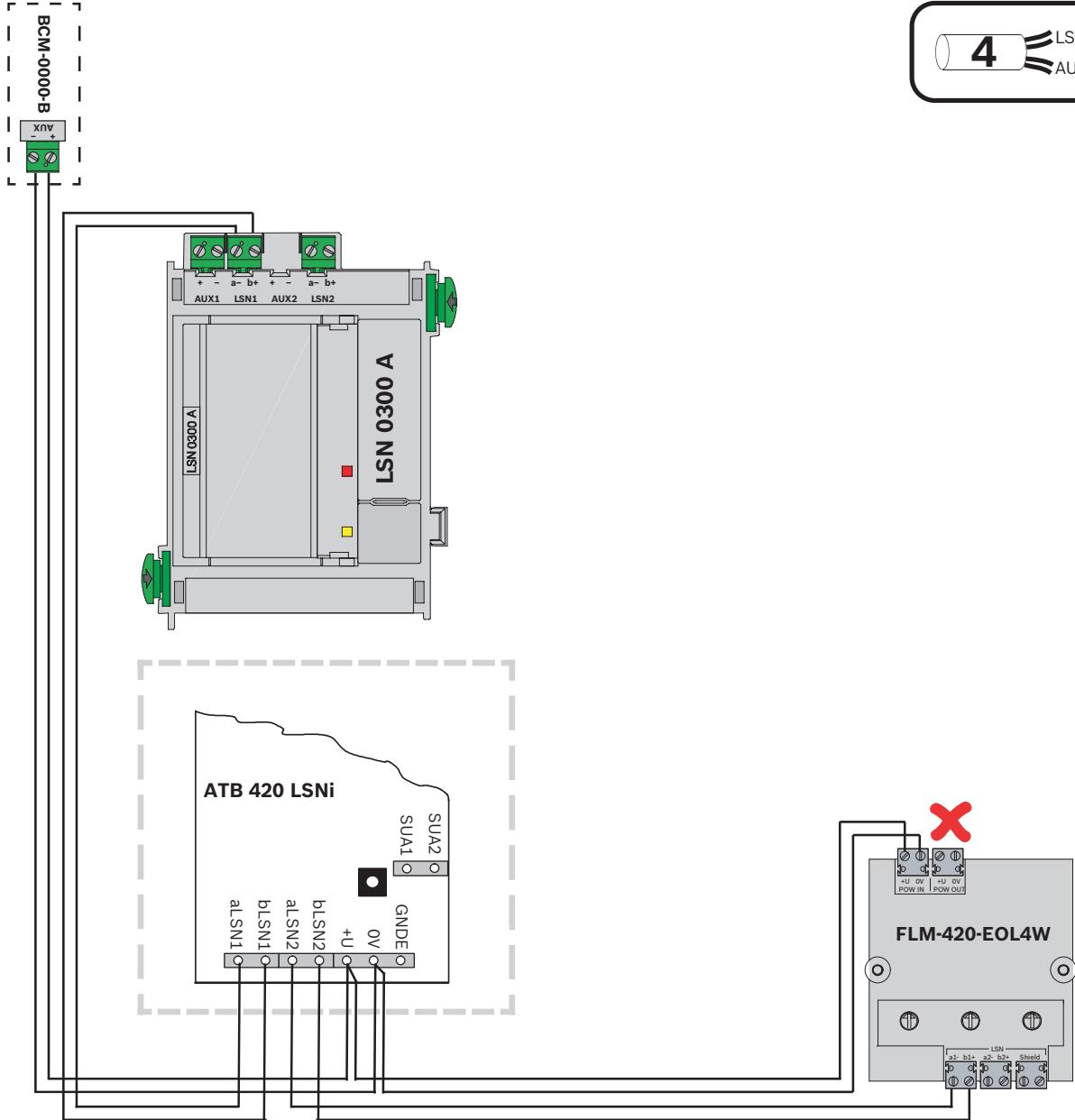
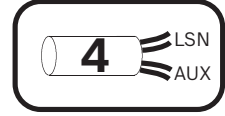


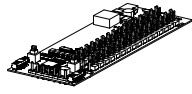


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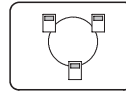


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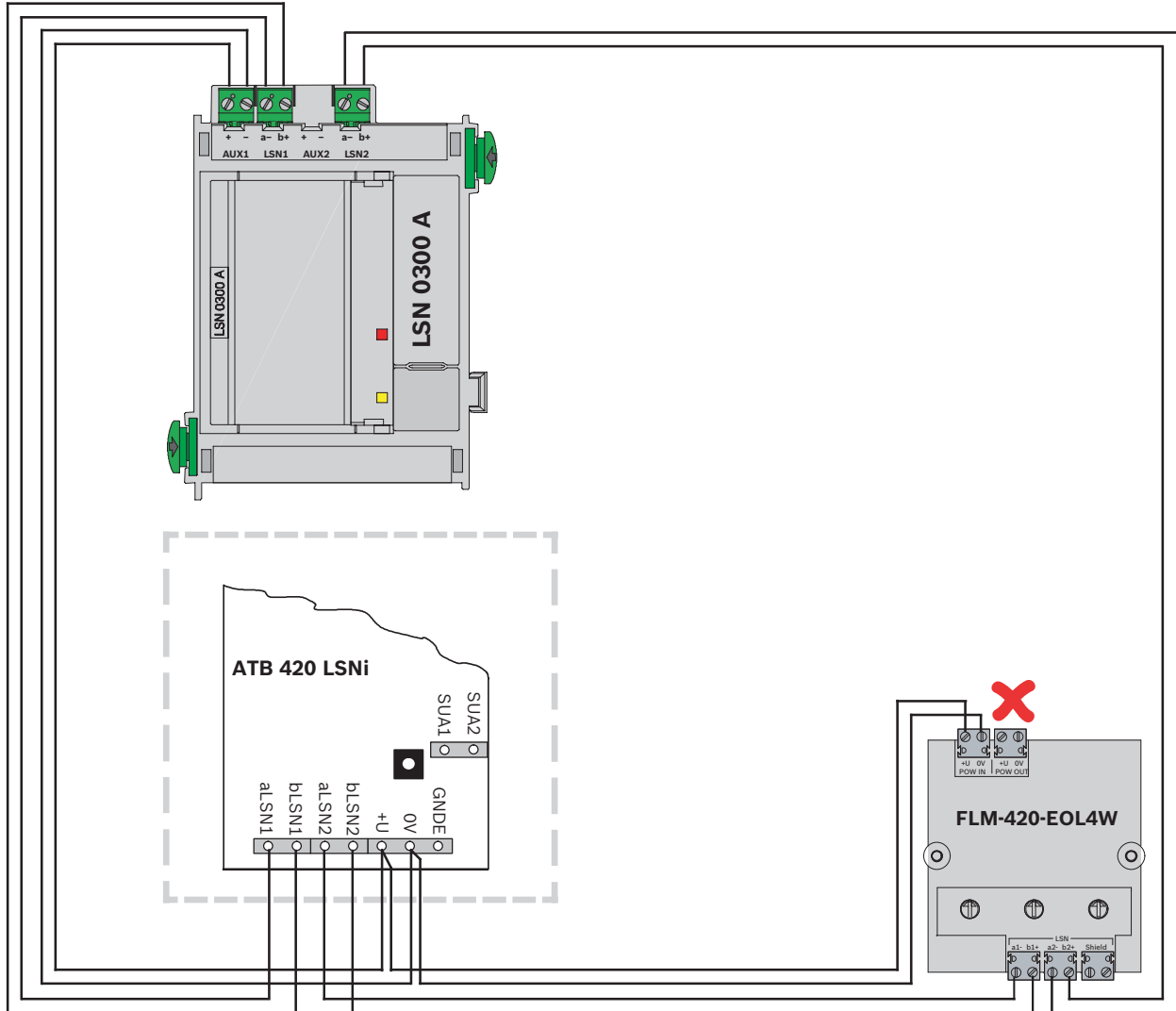


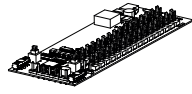


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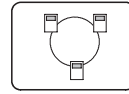


ELS VdS 2489

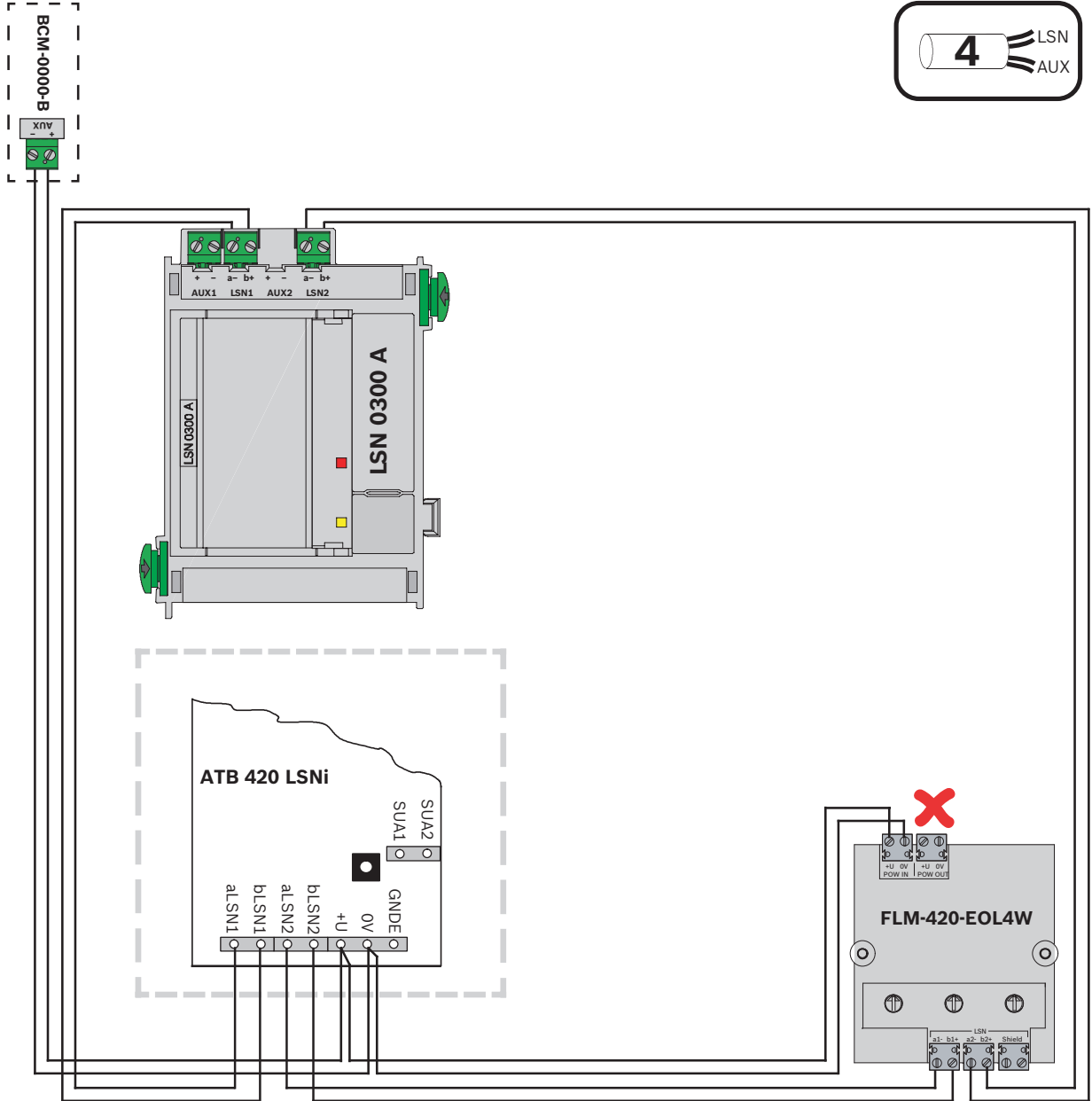




ATB 420 LSNi

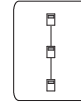


ELS VdS 2489

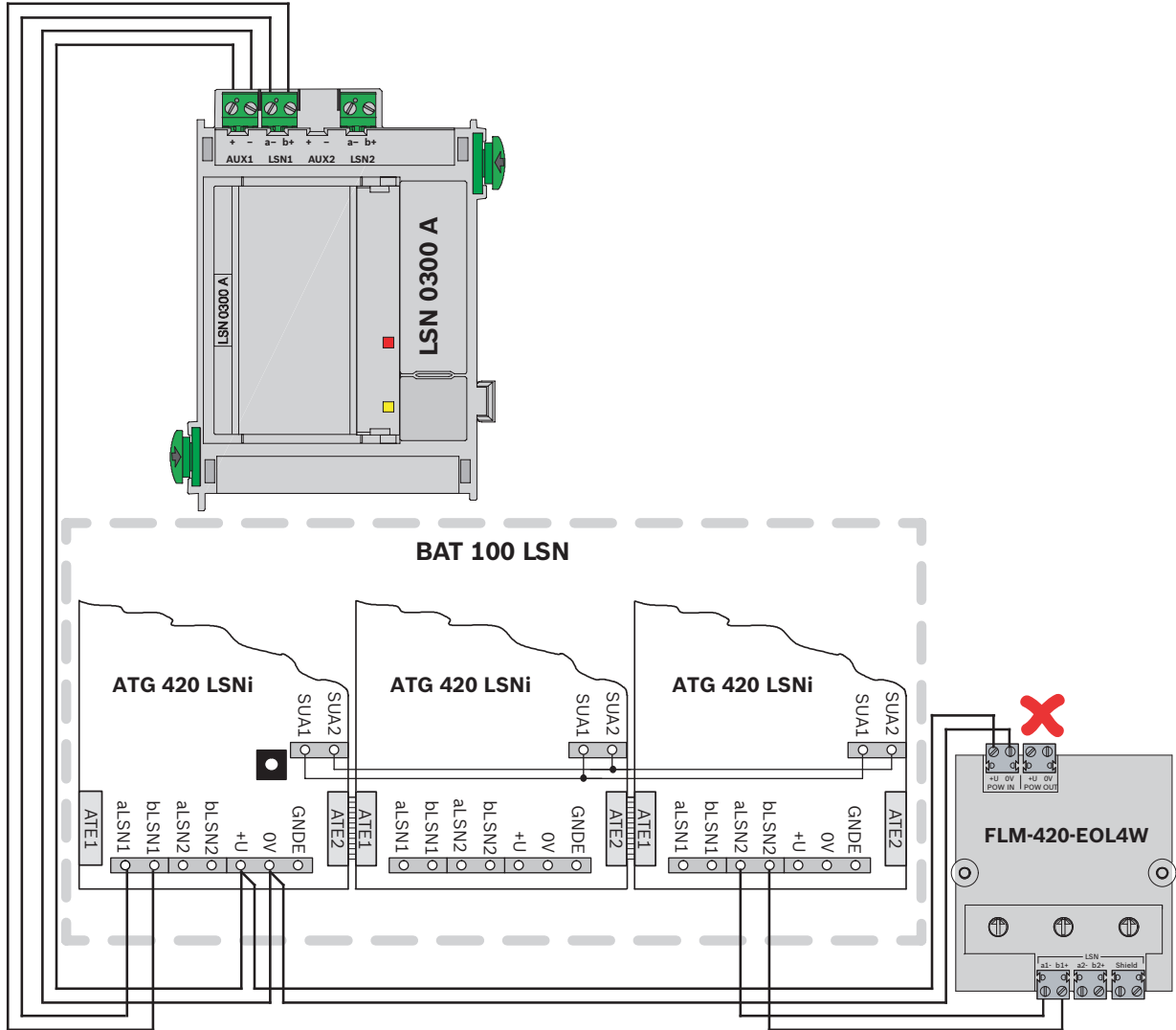
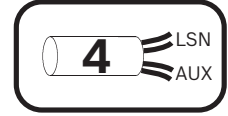




BAT 100 LSN
ATG 420 LSNi

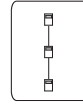


ELS VdS 2489

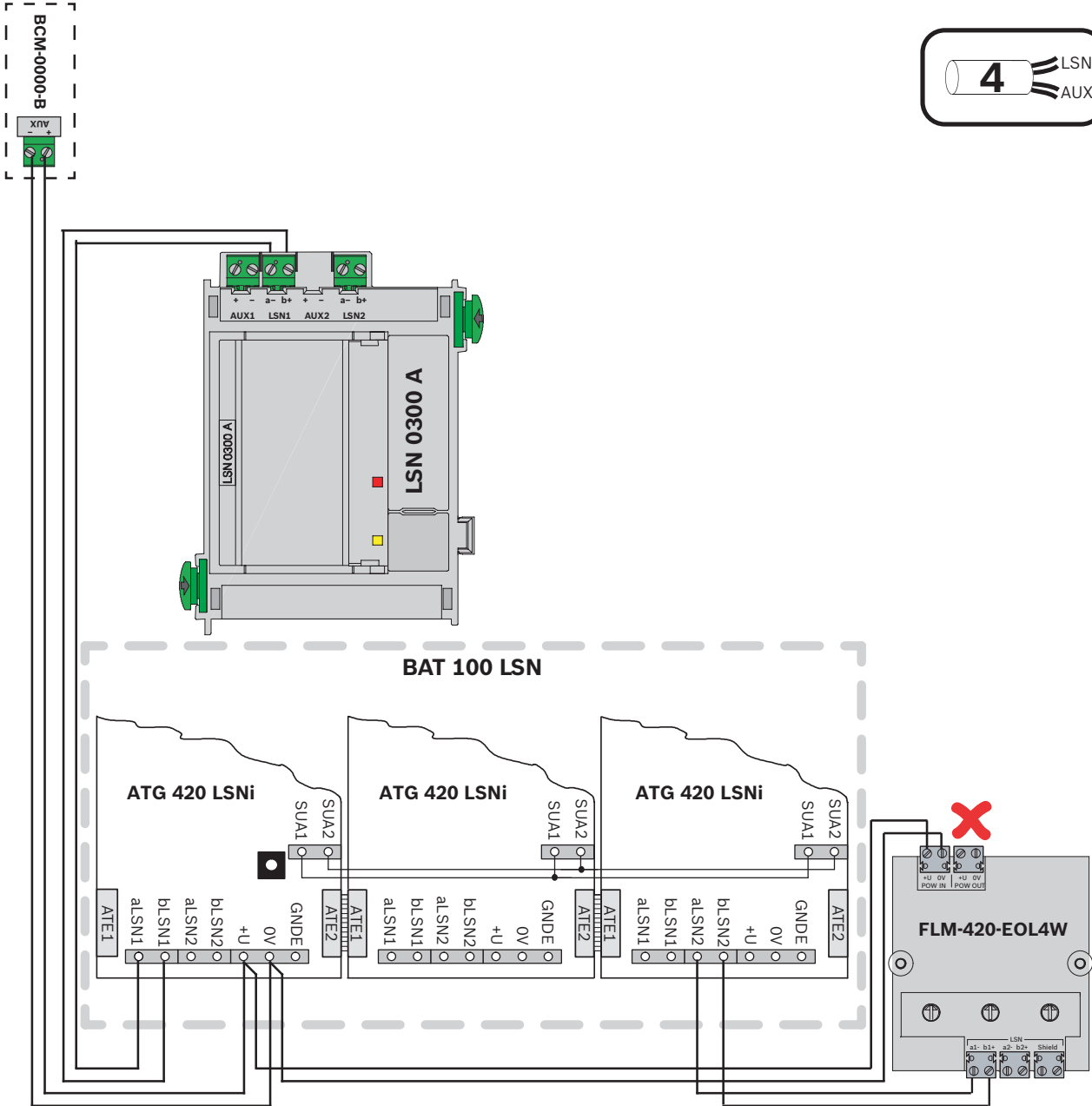




BAT 100 LSN
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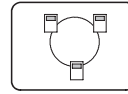


ELS VdS 2489

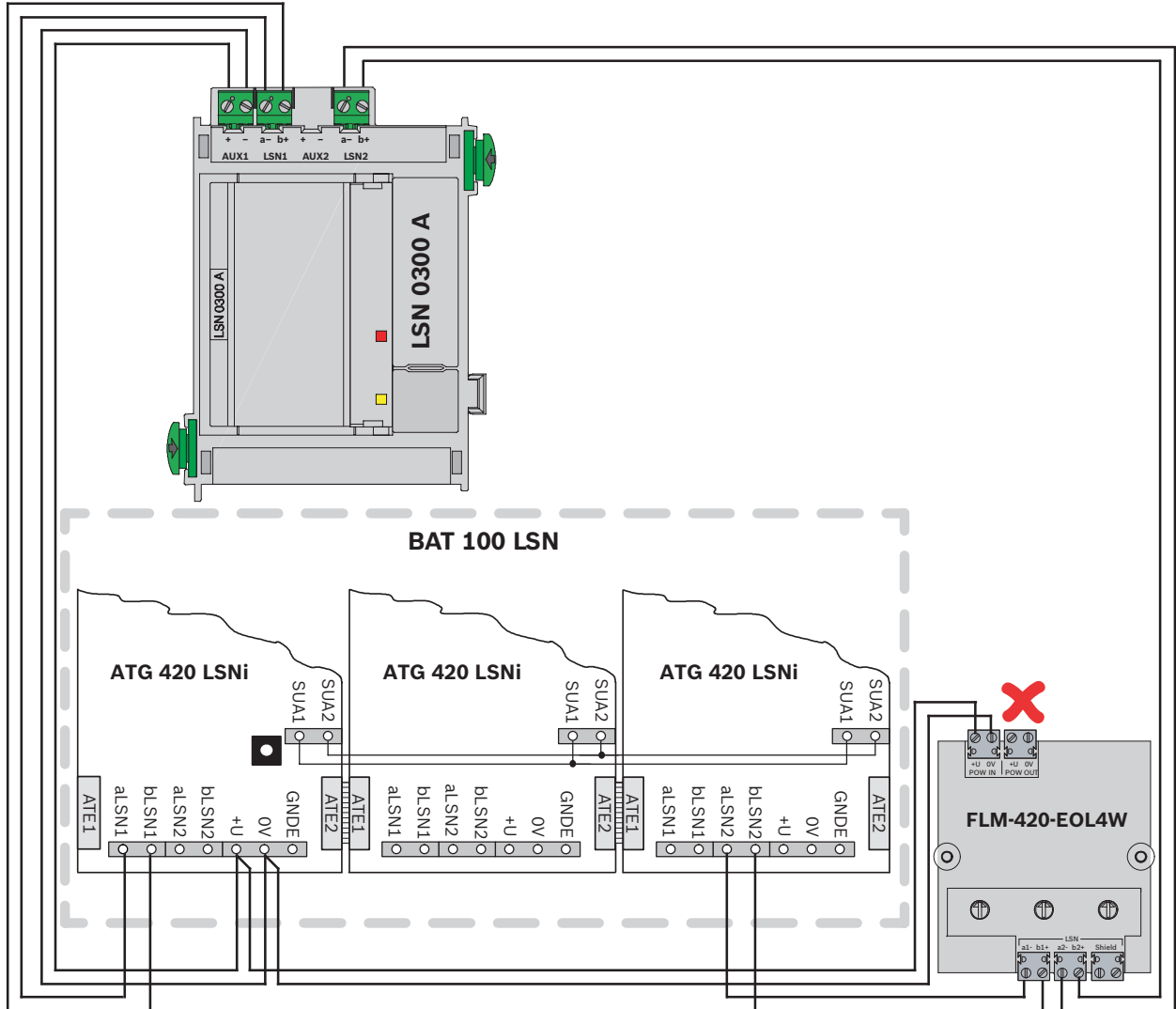


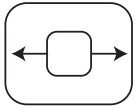
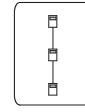
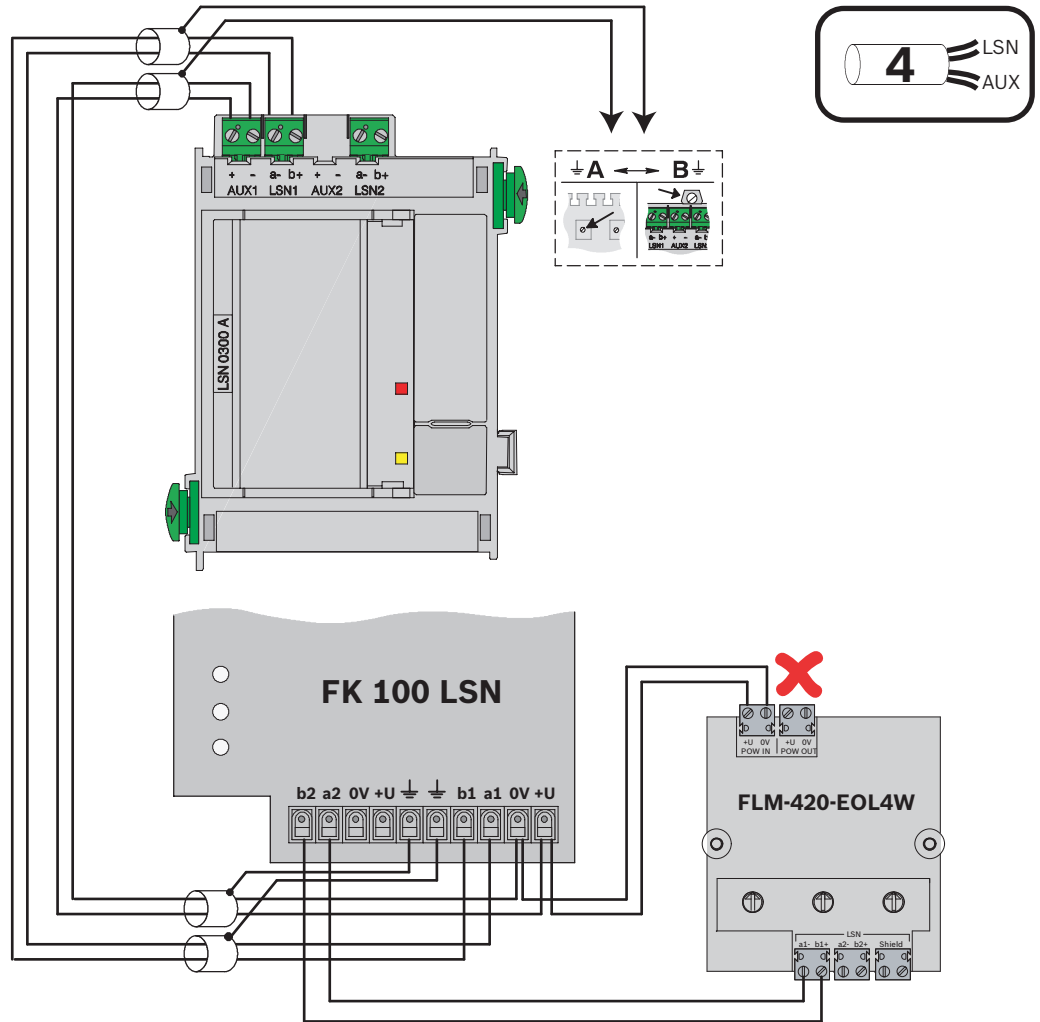
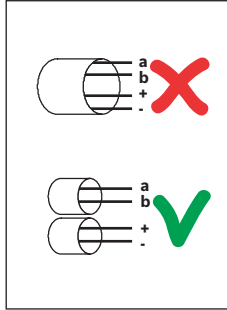


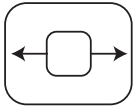
BAT 100 LSN
ATG 420 LSNi



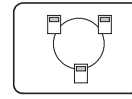
ELS VdS 2489



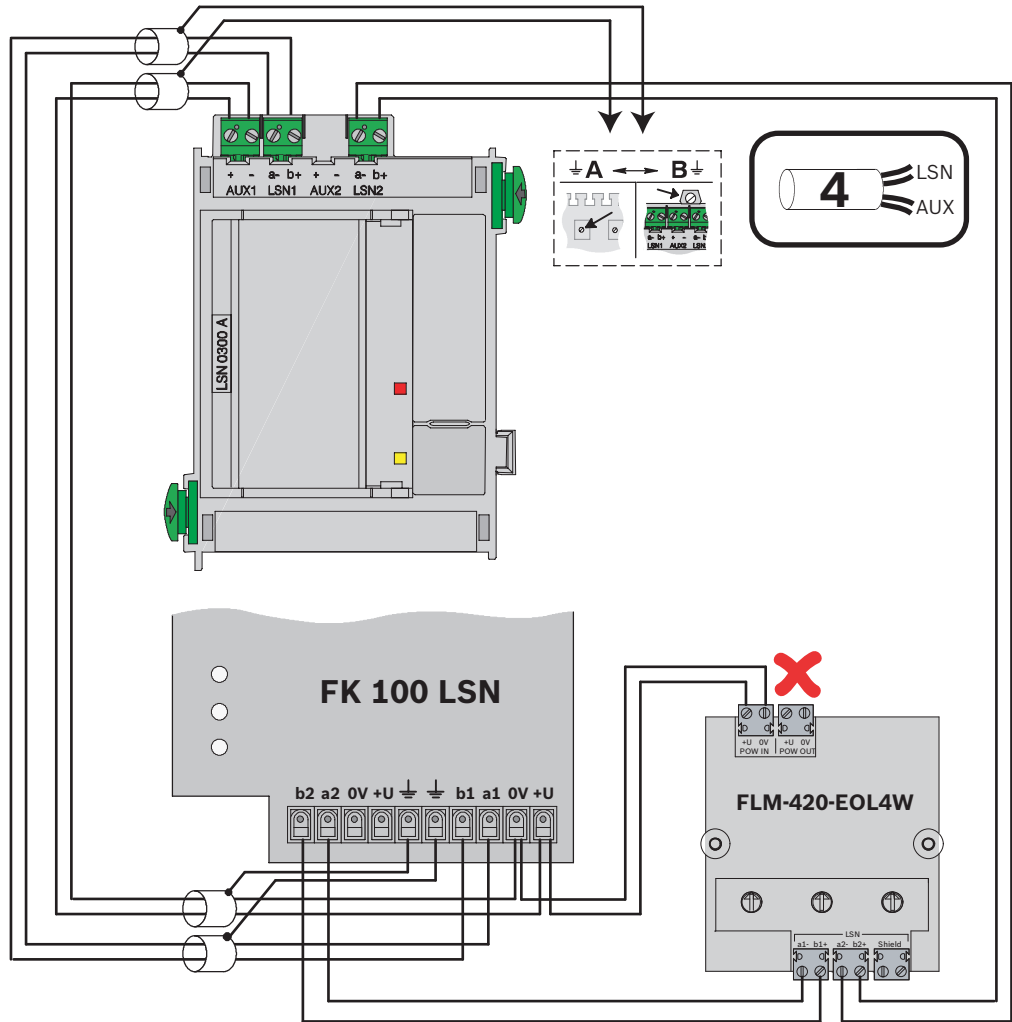
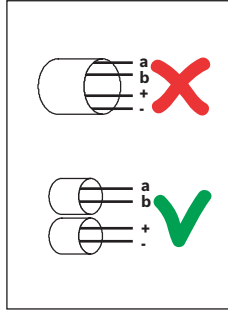
**FK 100 LSN****ELS VdS 2489**



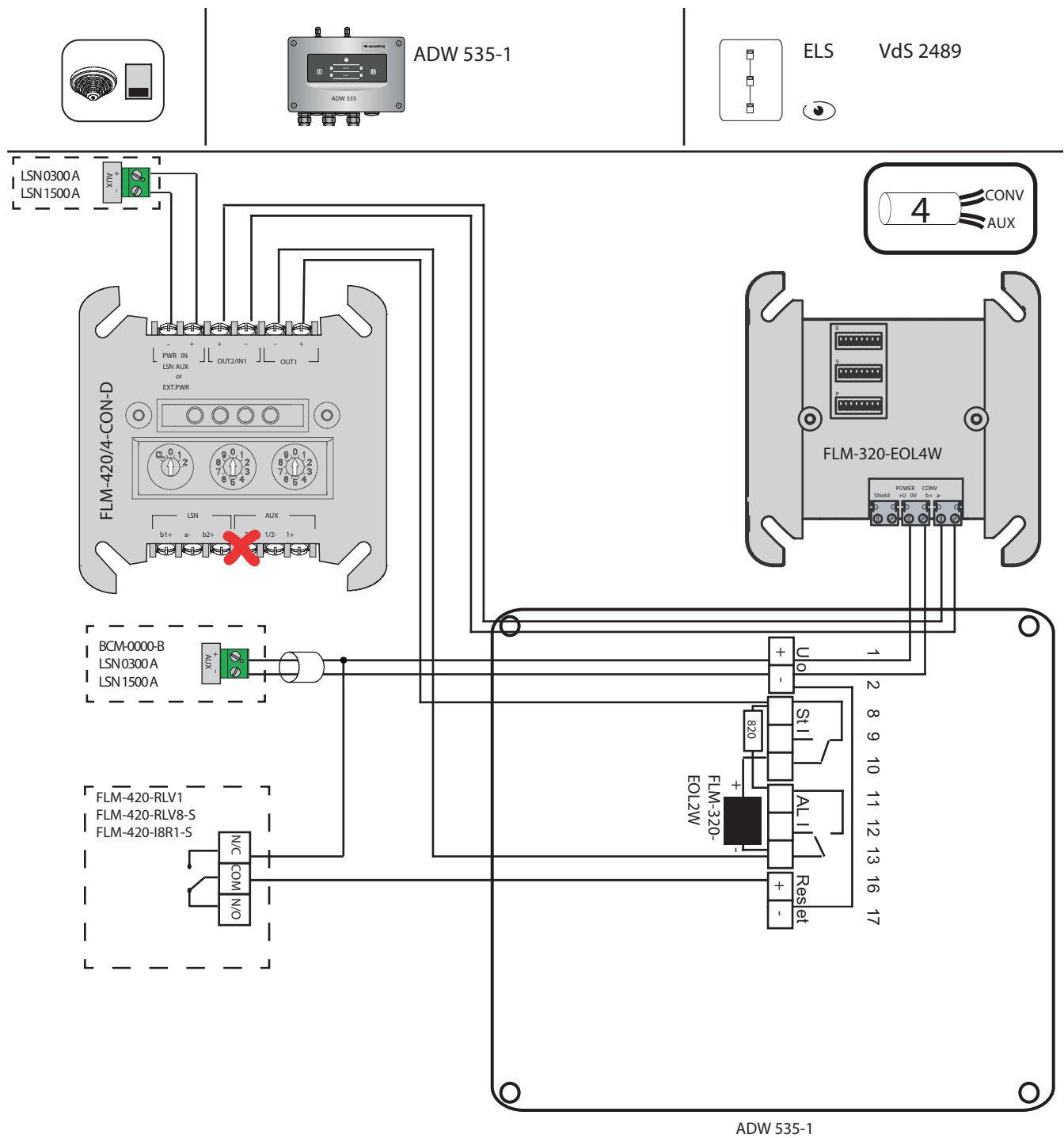
FK 100 LSN

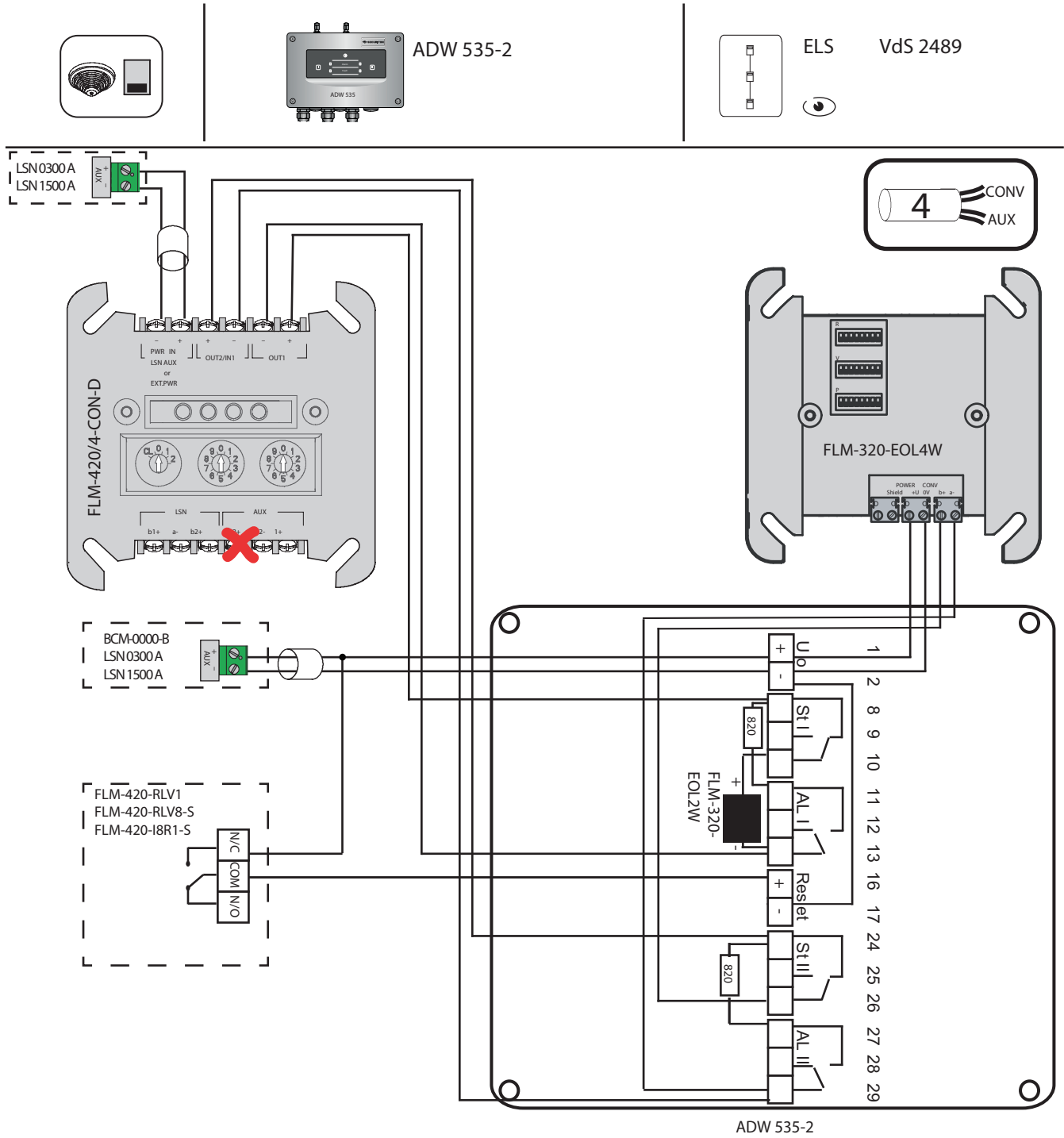


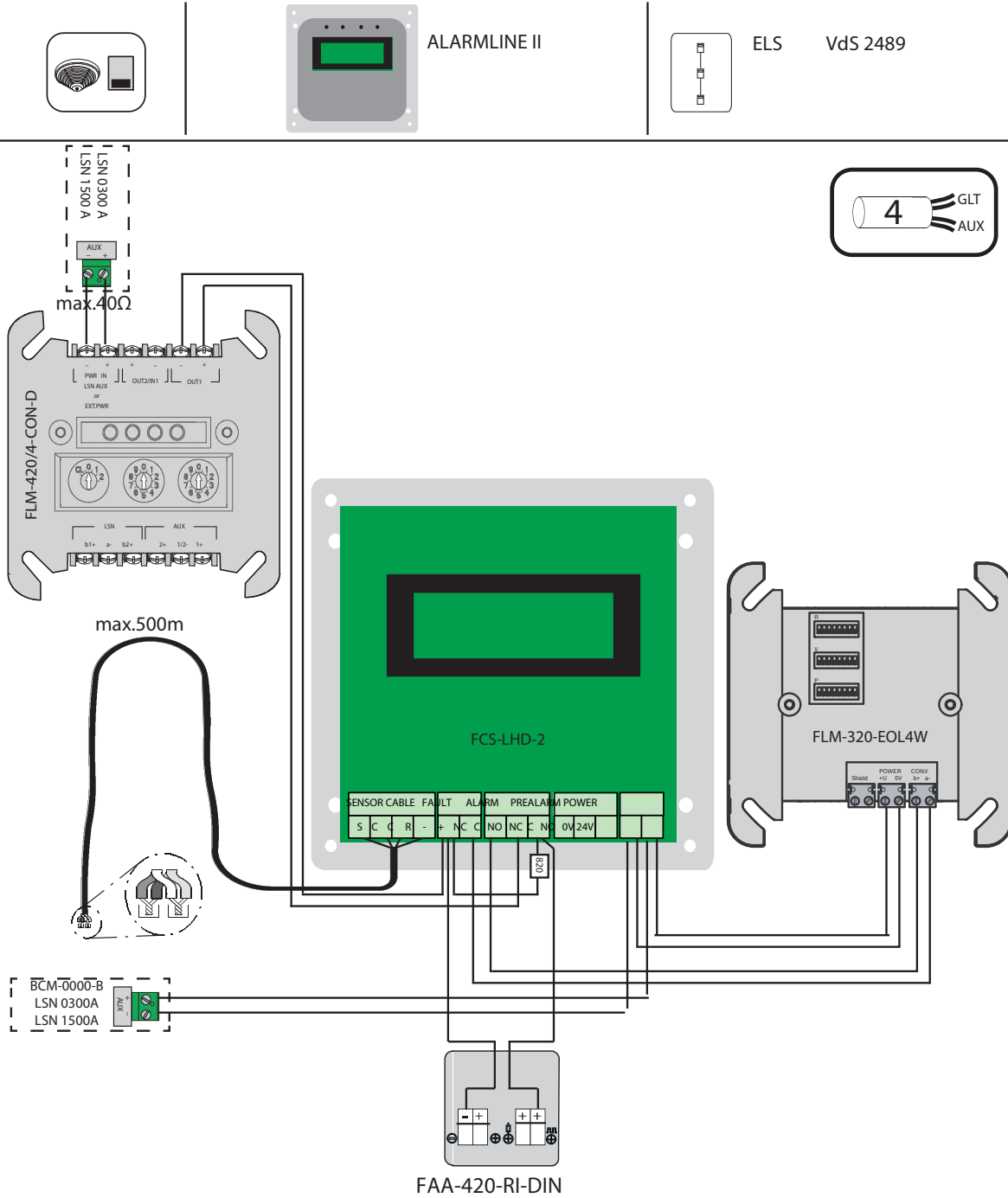
ELS VdS 2489

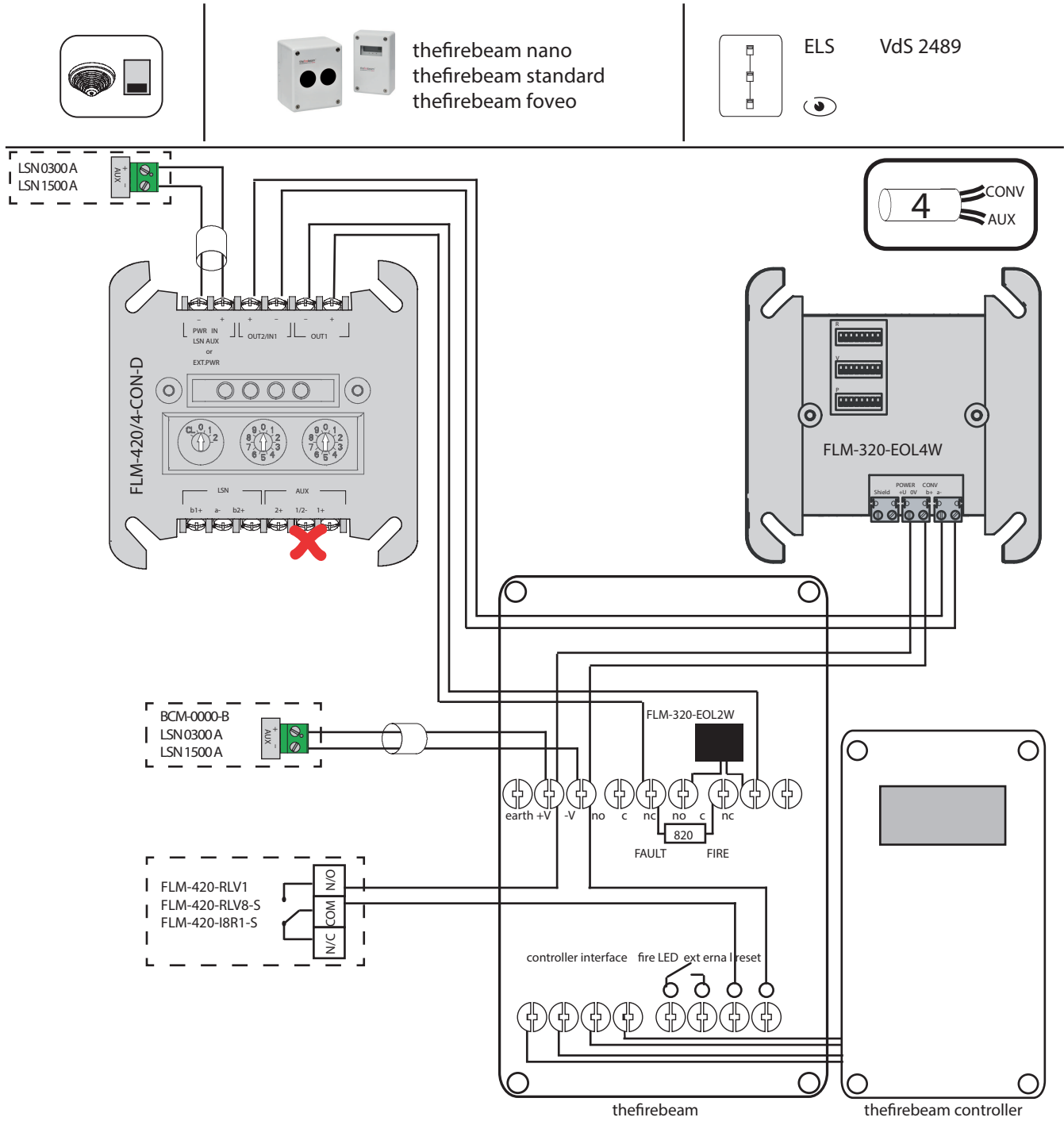


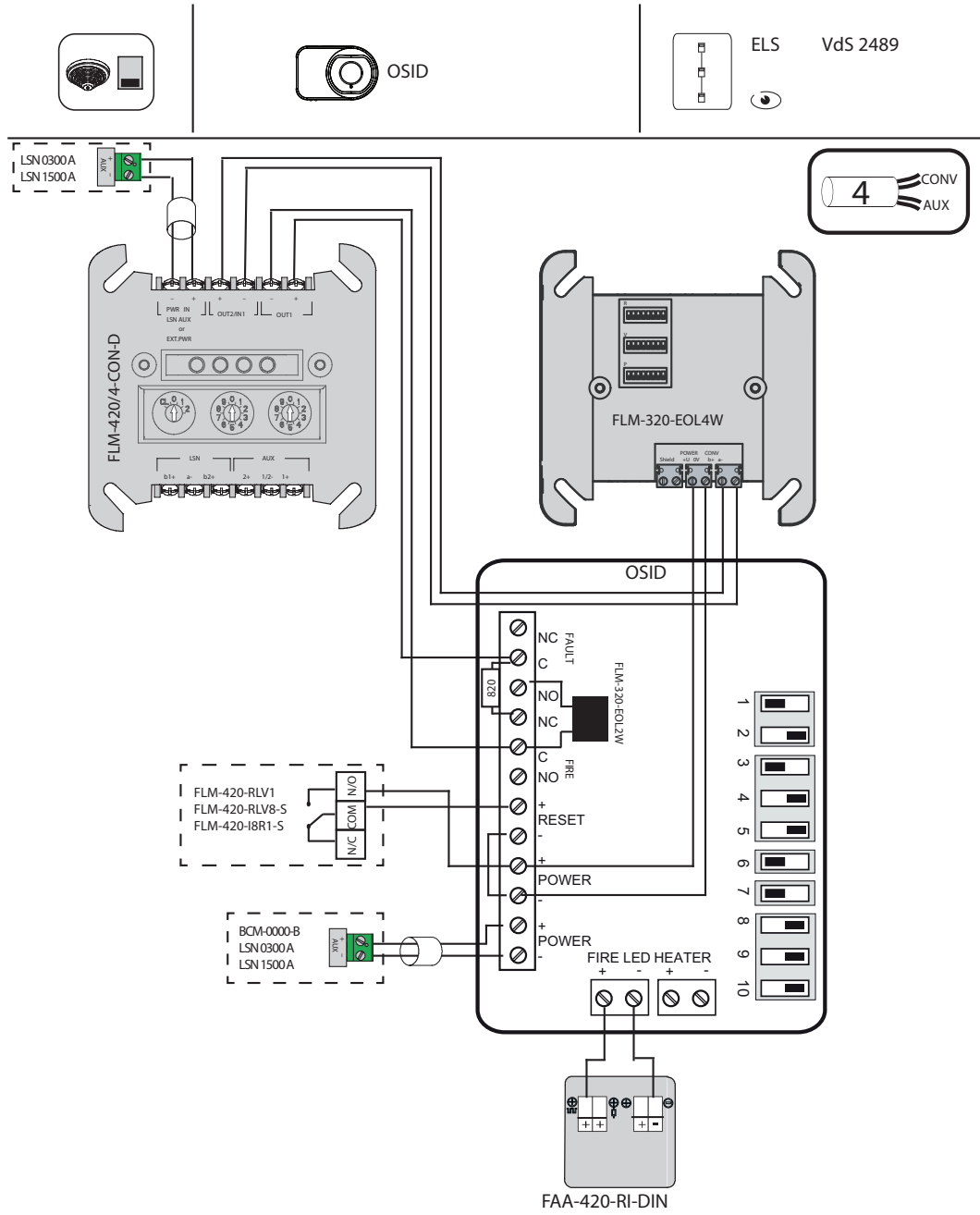
3.5.2 FLM-420/4-CON-S/D

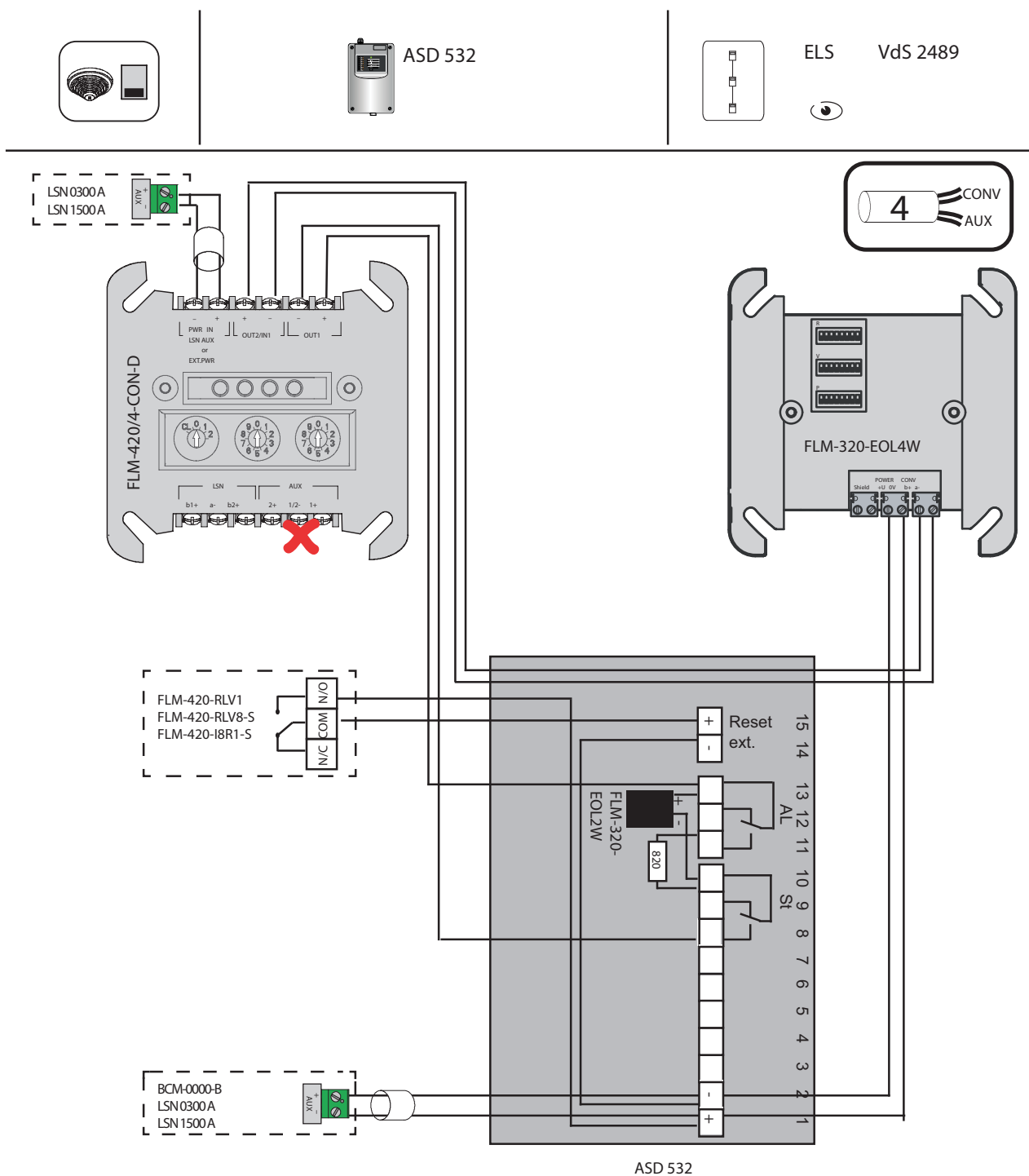






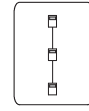






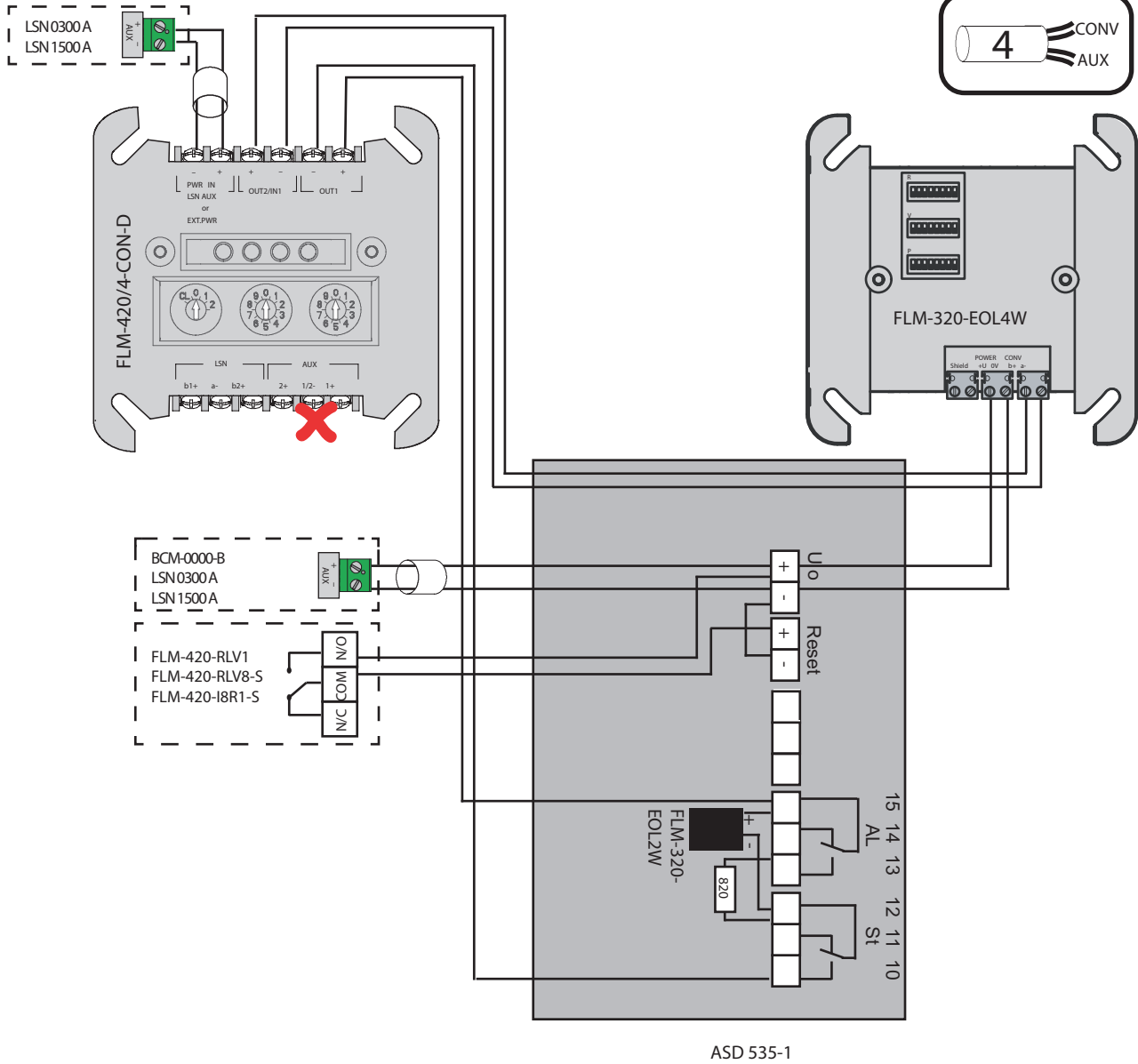


ASD 535-1



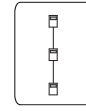
ELS

VdS 2489



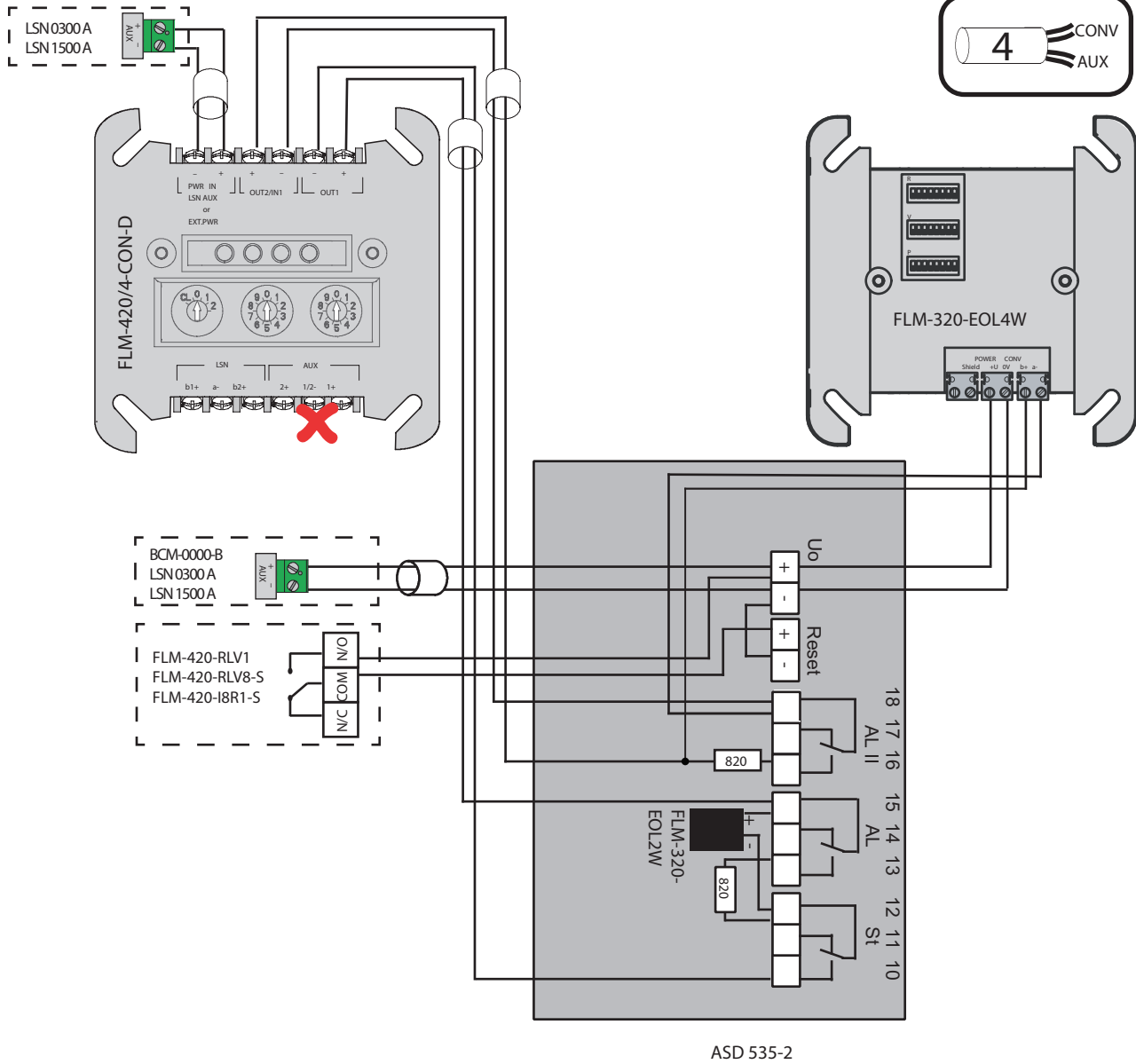


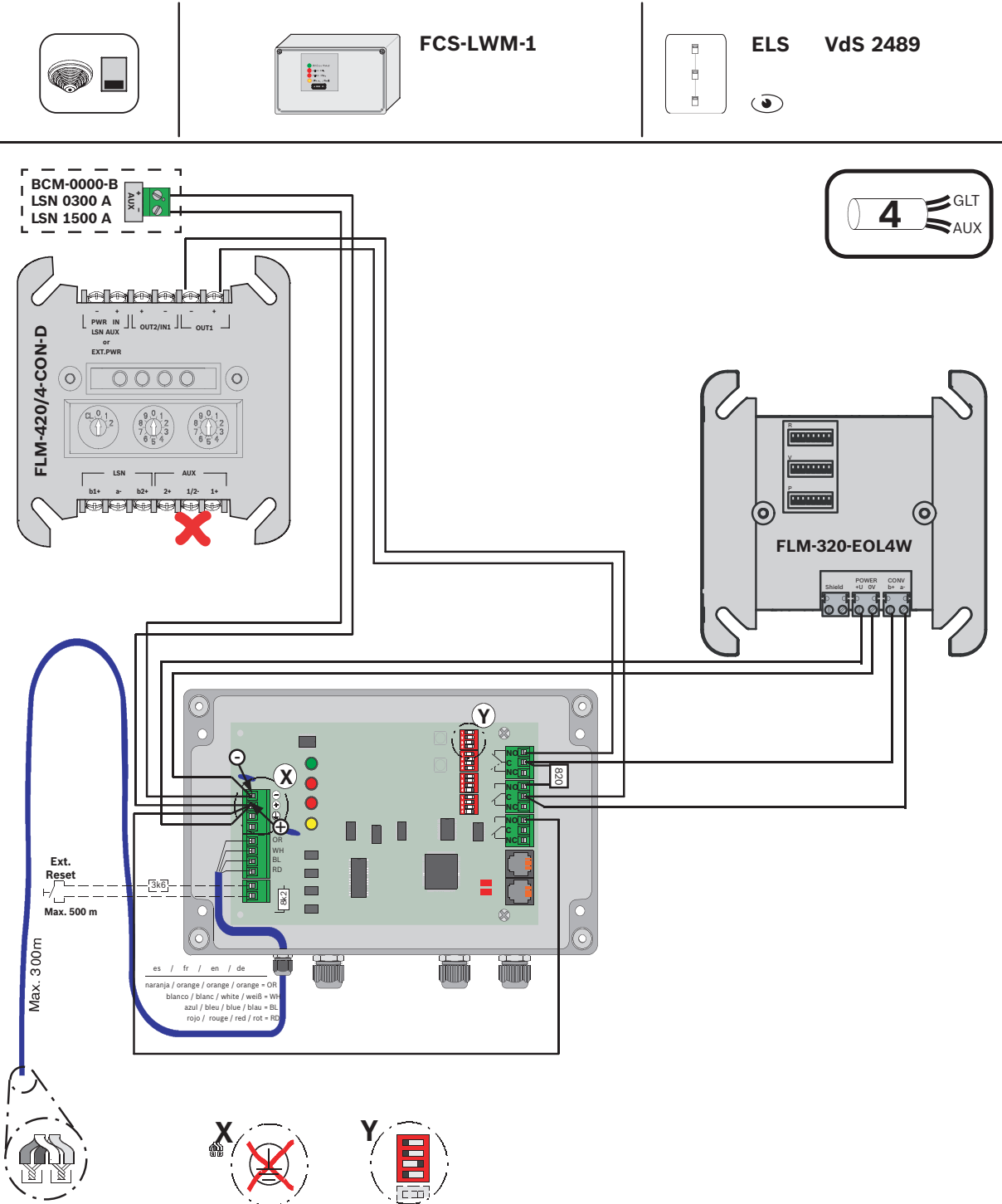
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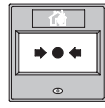
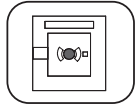


ELS

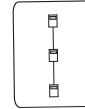
VdS 2489



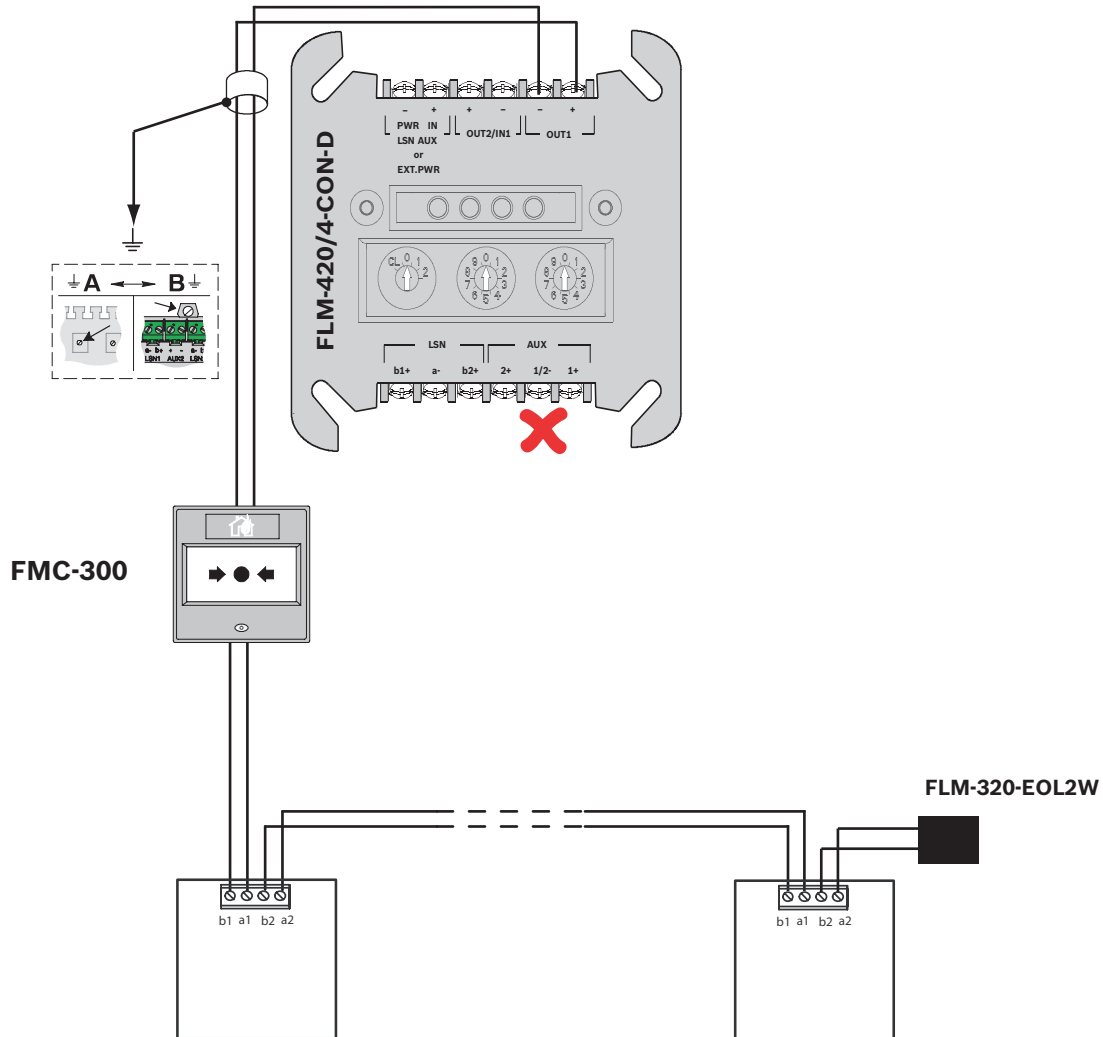




FMC-300



ELS VdS 2489

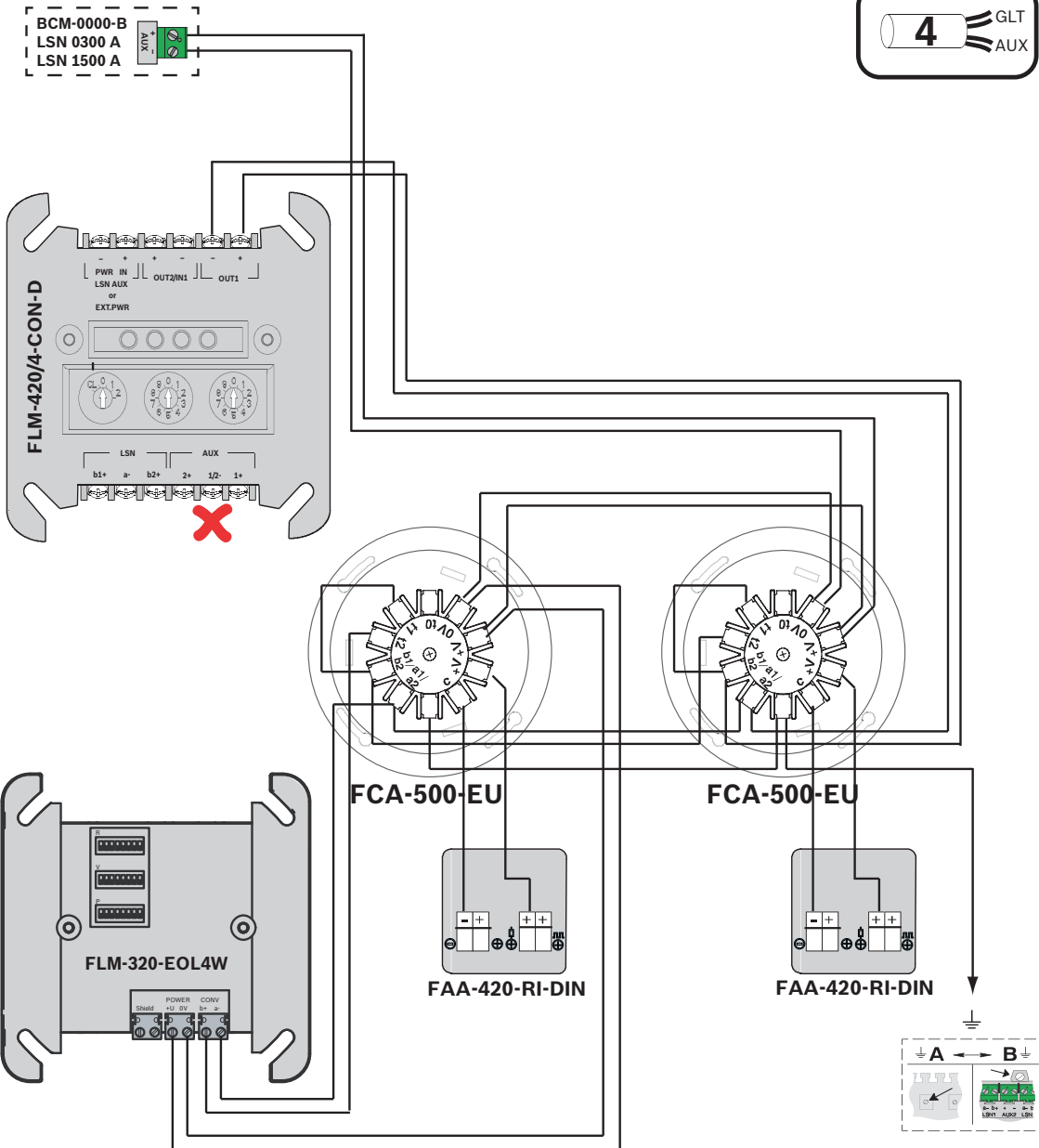


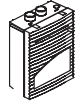


FCP-500

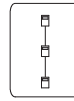


ELS VdS 2489





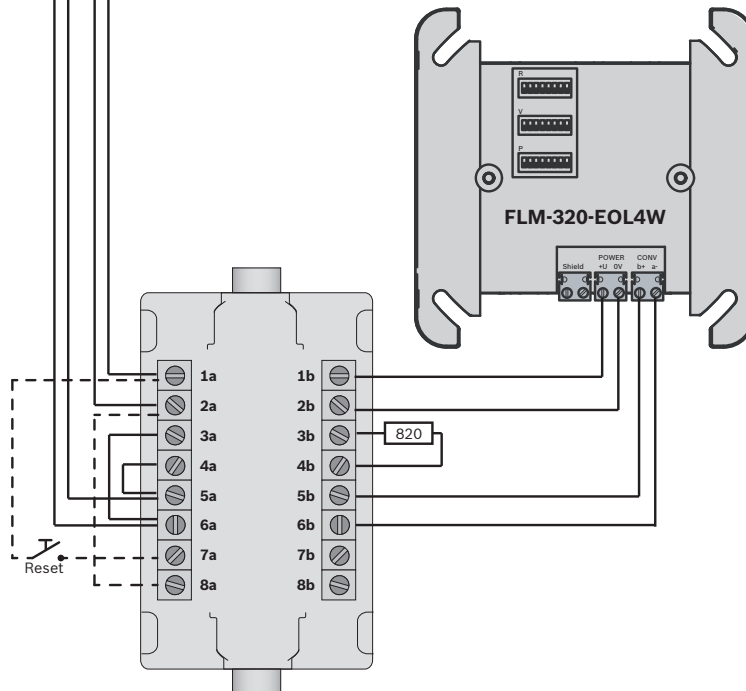
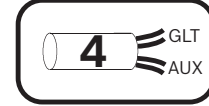
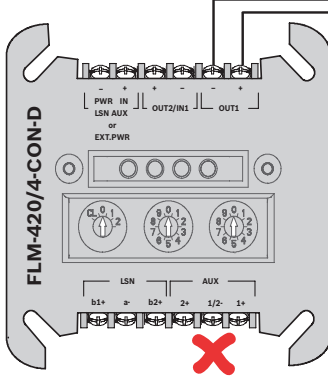
FCS-320-TM Series

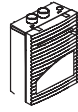


ELS VdS 2489

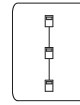


BCM-0000-B
LSN 0300 A
LSN 1500 A





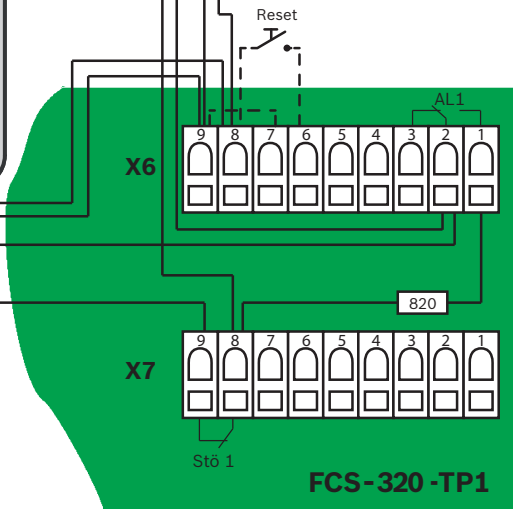
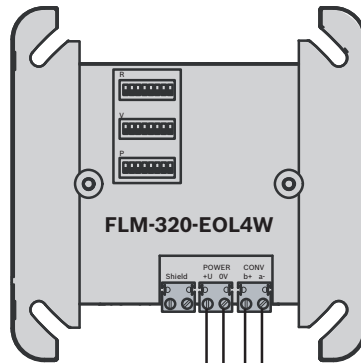
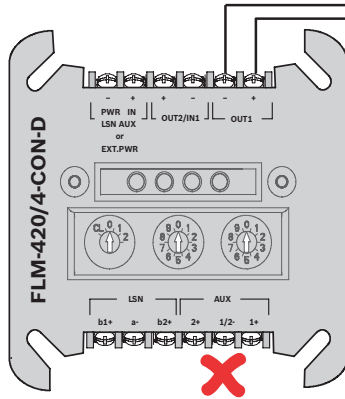
FCS-320-TP Series

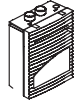


ELS VdS 2489

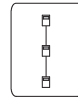


BCM-0000-B
LSN 0300 A
LSN 1500 A



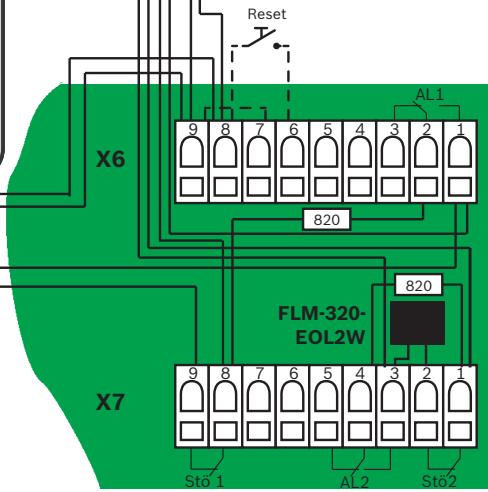
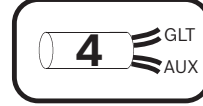
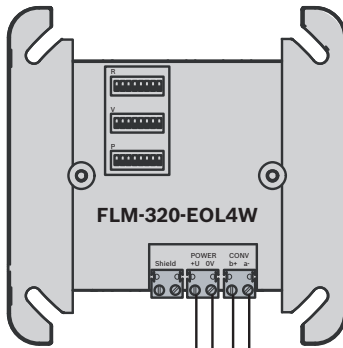
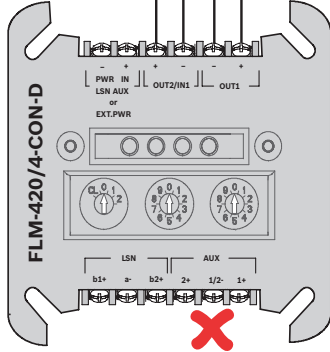


FCS-320-TP Series

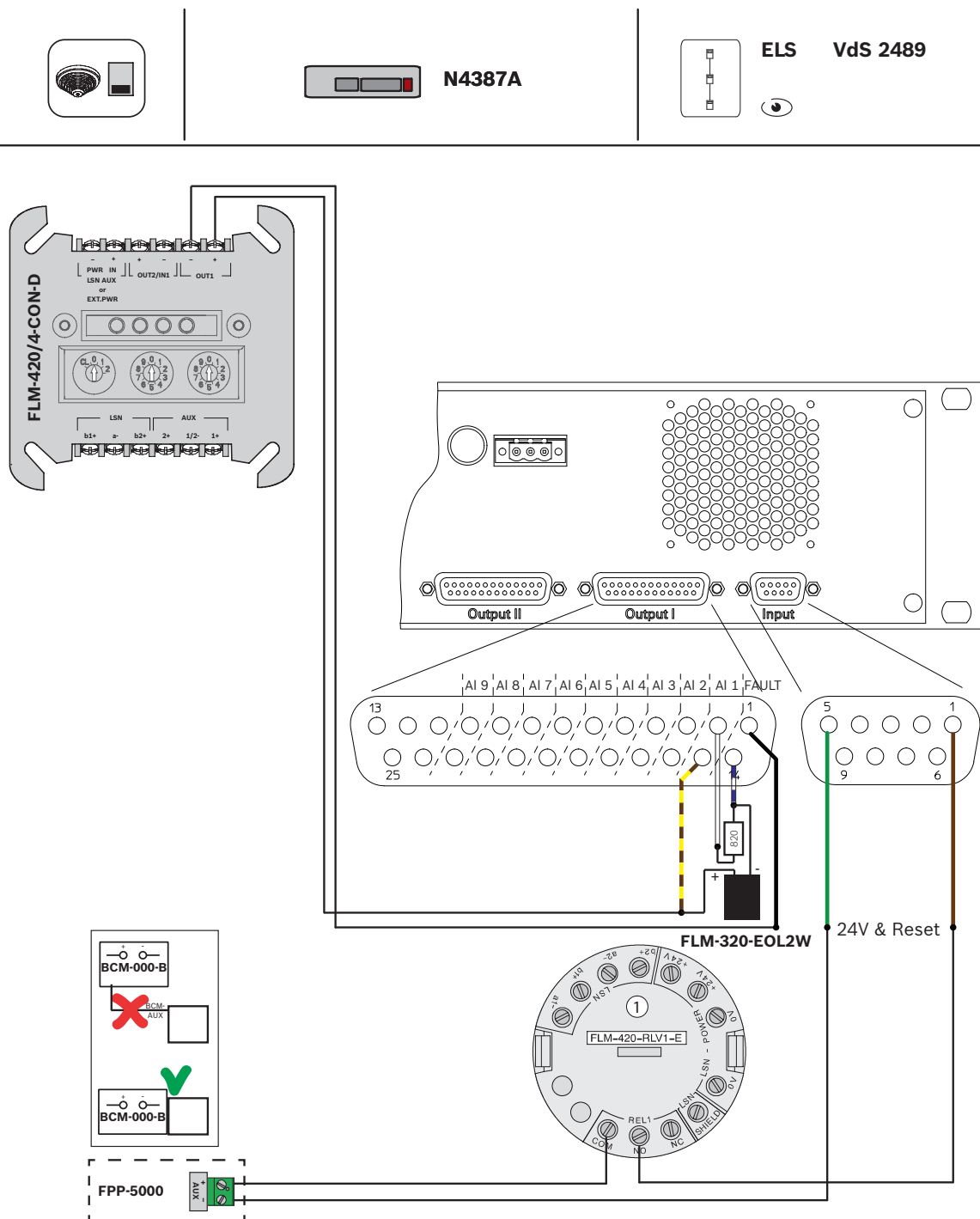


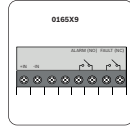
ELS VdS 2489

BCM-0000-B
LSN 0300 A
LSN 1500 A

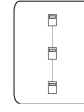


FCS-320-TP2



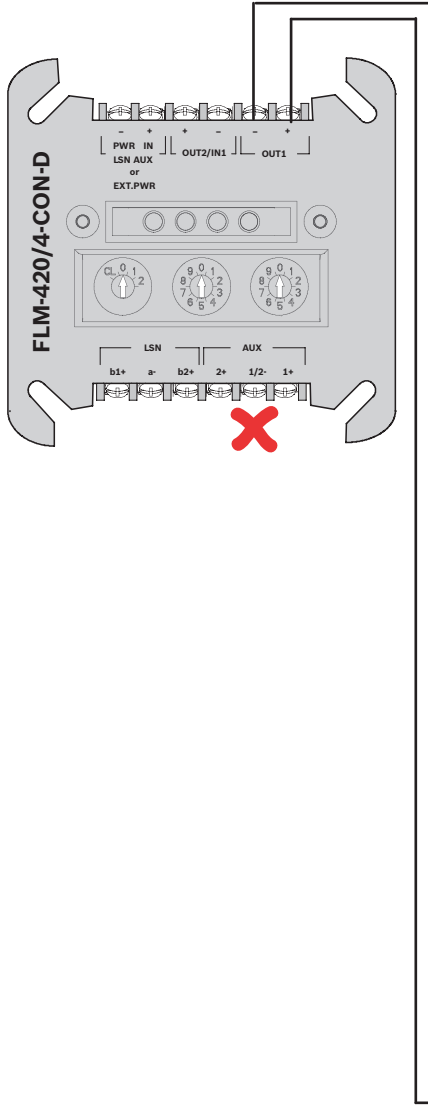


016519, 016589
IR3 Flame Detector

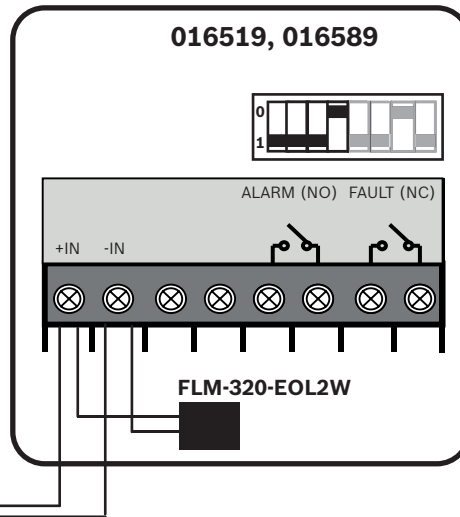


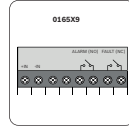
ELS

VdS 2489

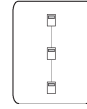


max. 1 x 0165X9





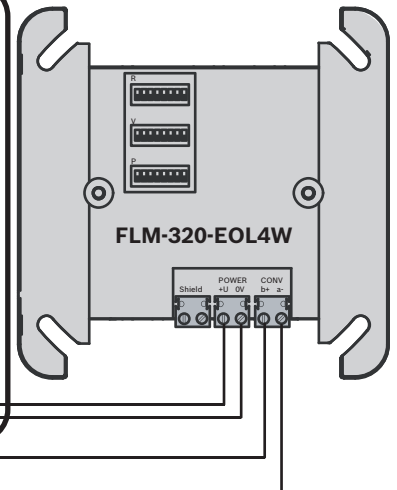
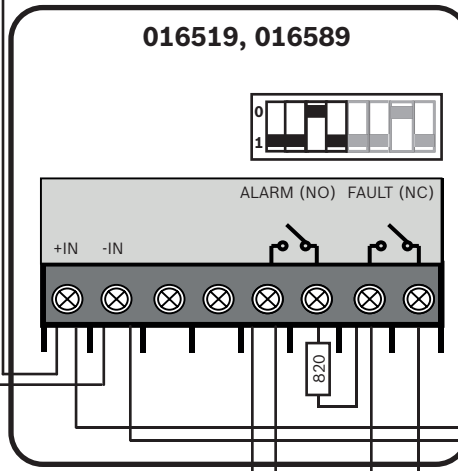
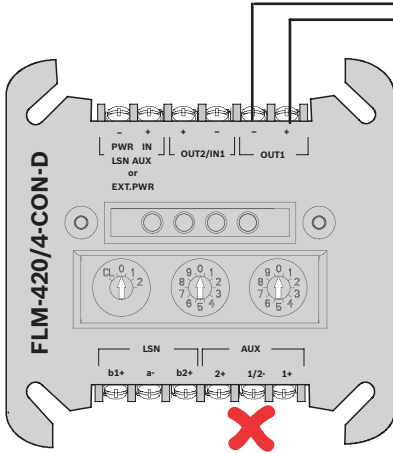
016519, 016589
IR3 Flame Detector

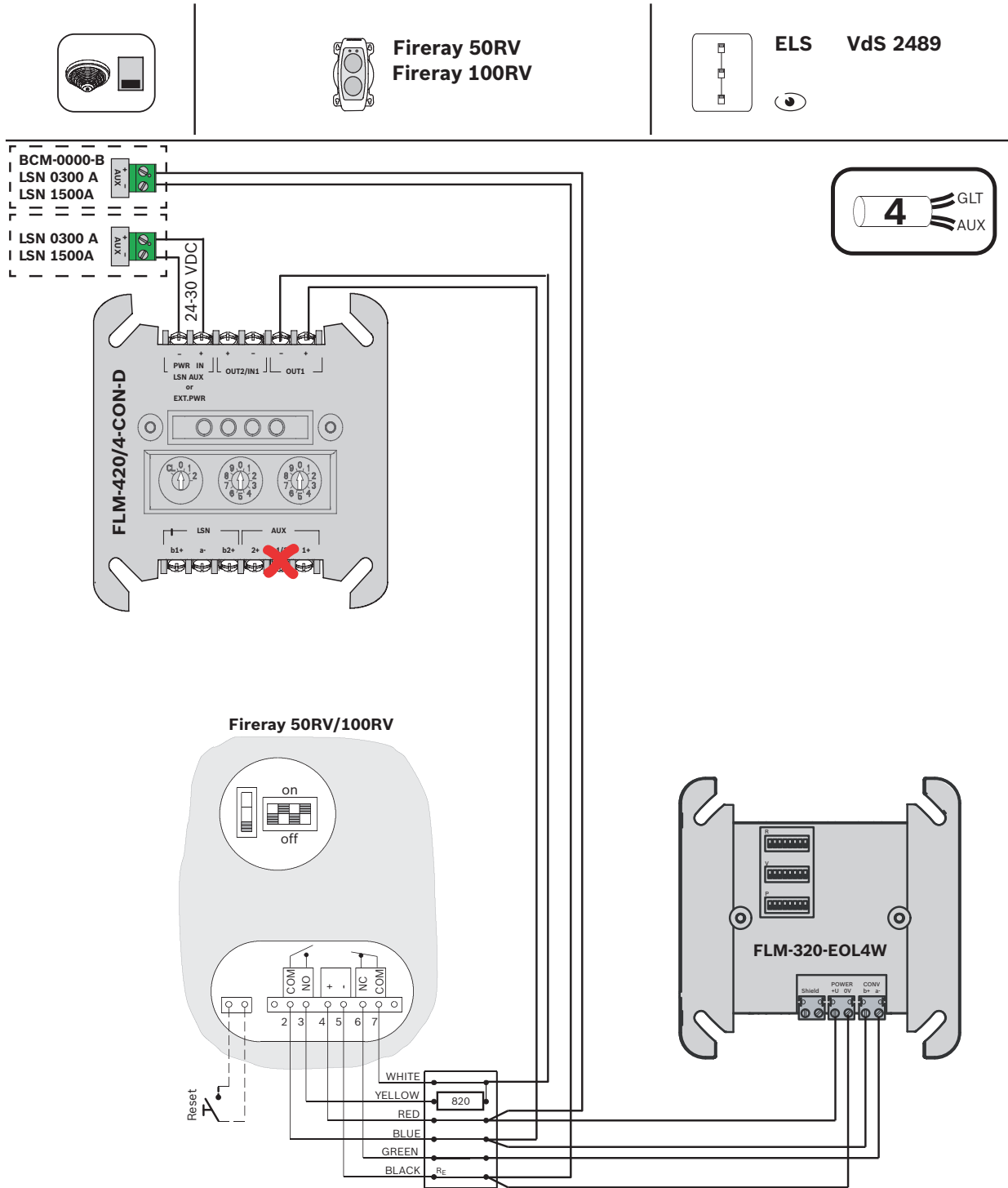


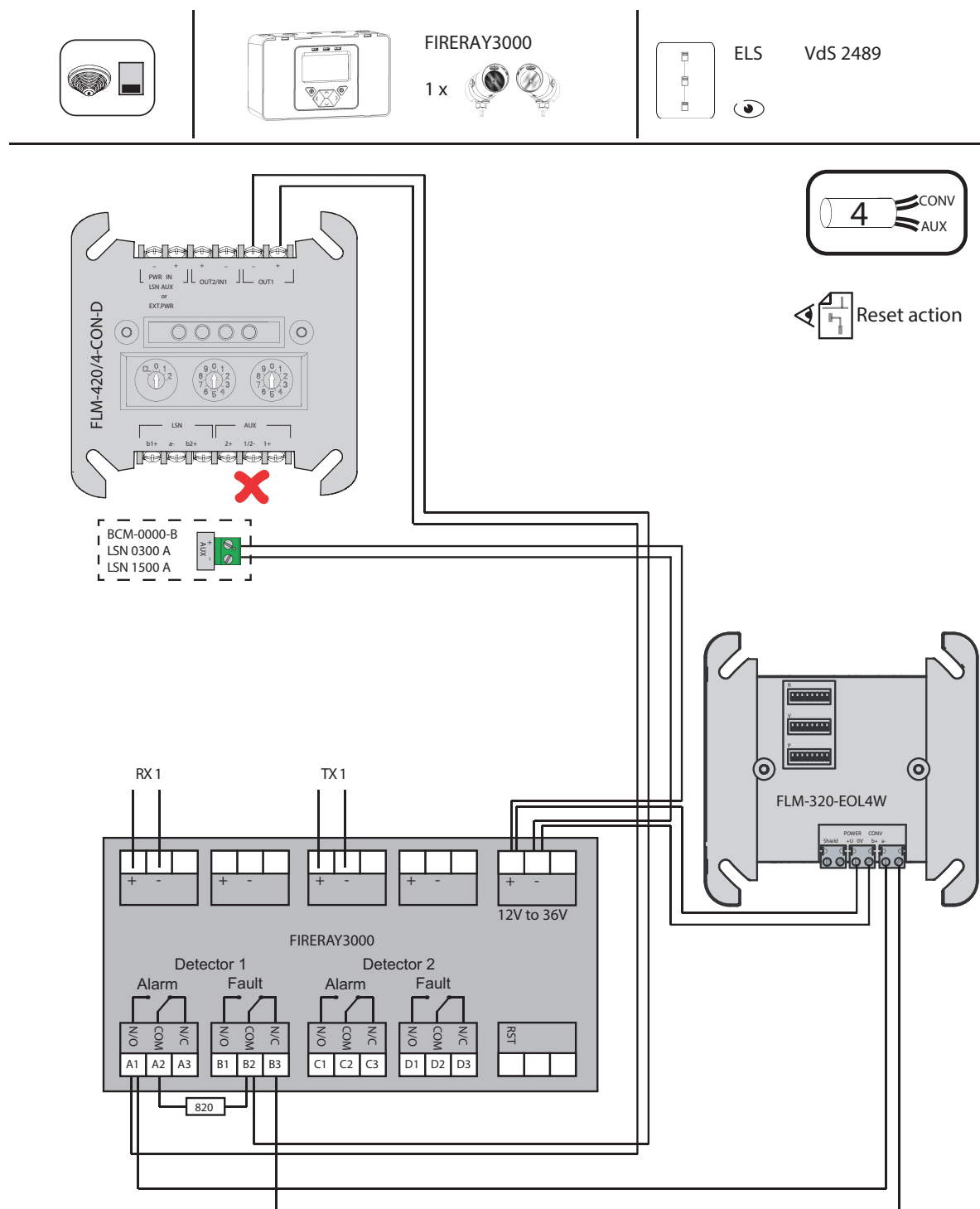
ELS VdS 2489

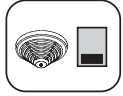


BCM-0000-B
LSN 0300 A
LSN 1500 A









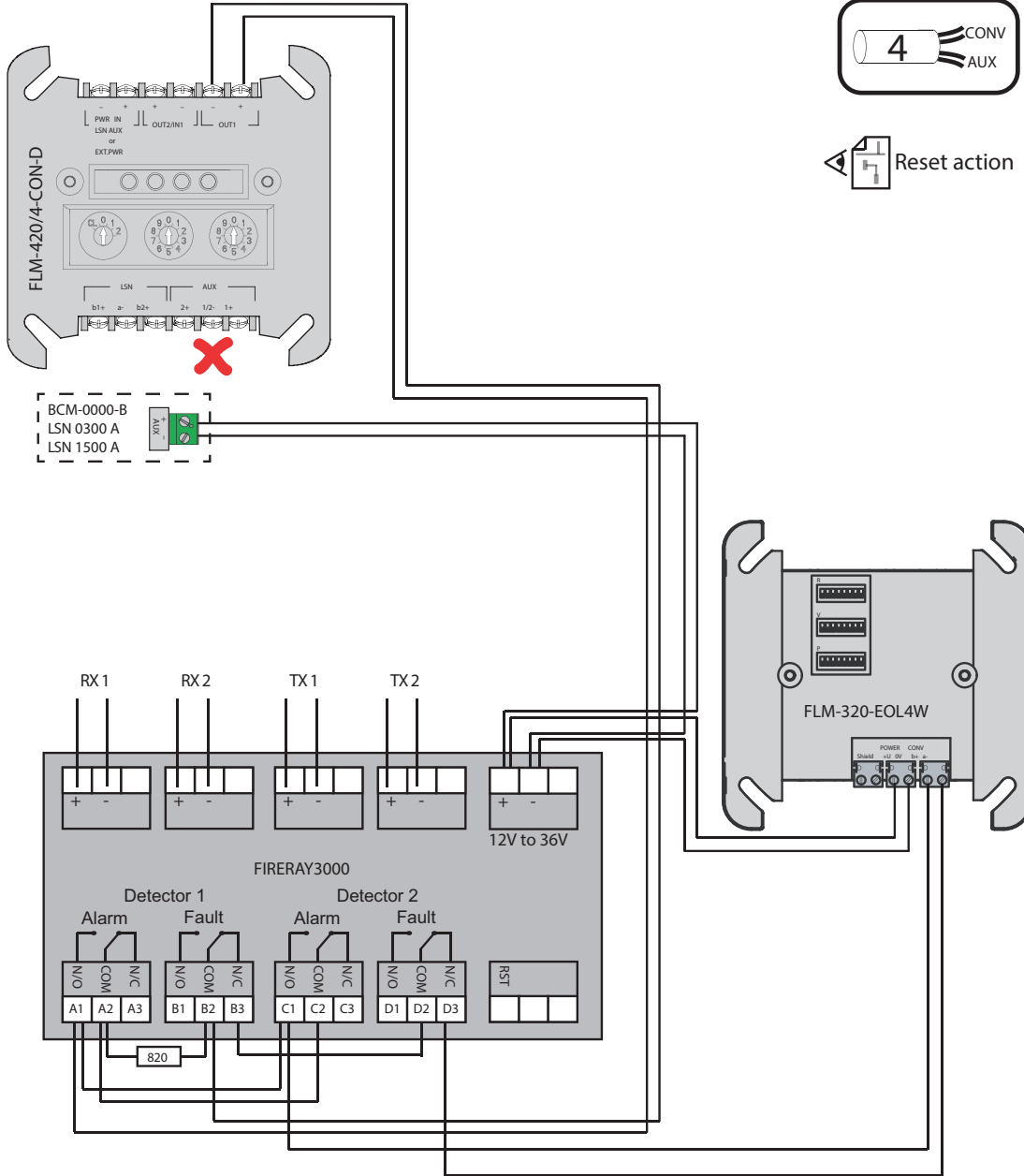
FIRERAY3000

2 x 1



ELS

VdS 2489





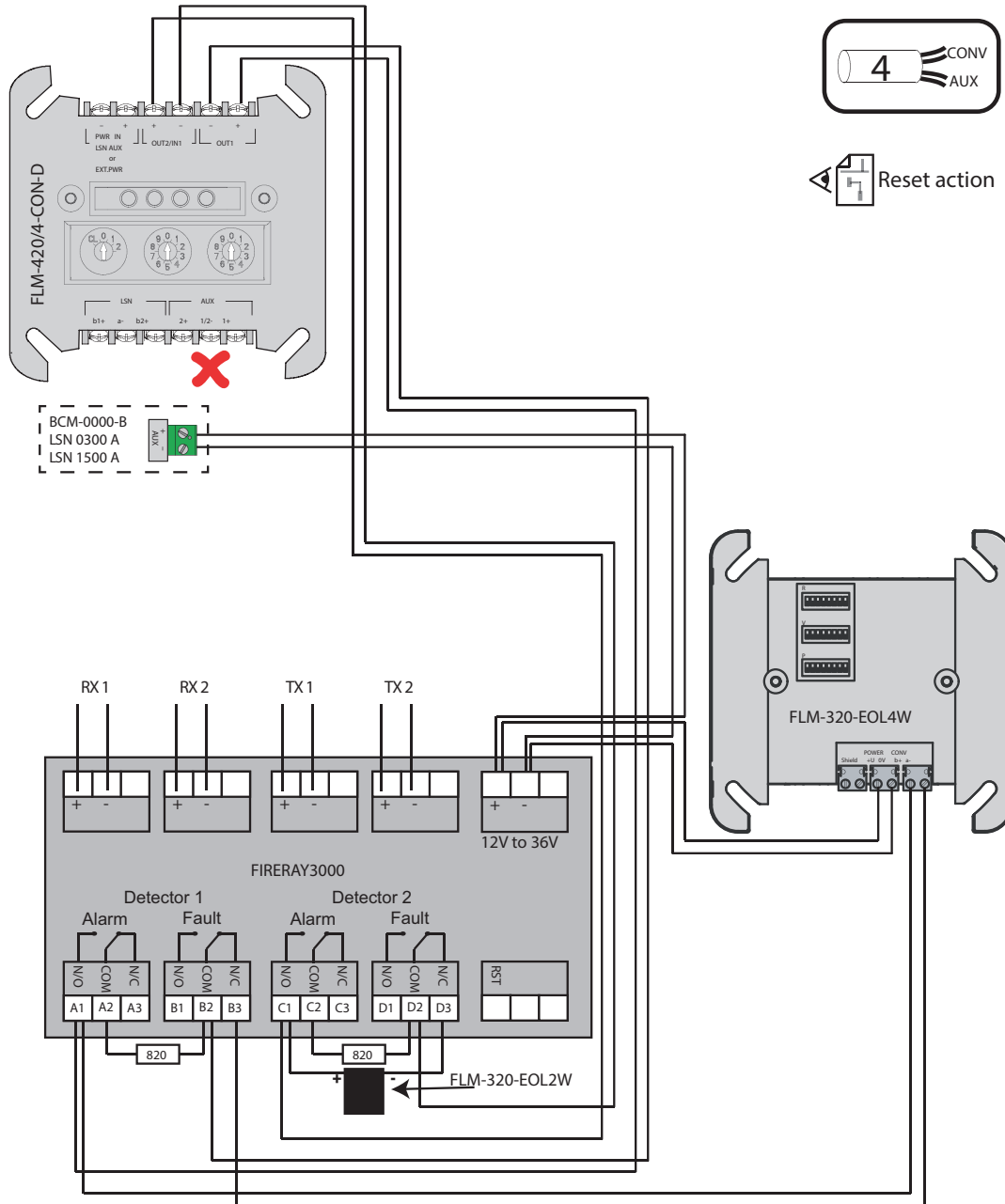
FIRERAY3000

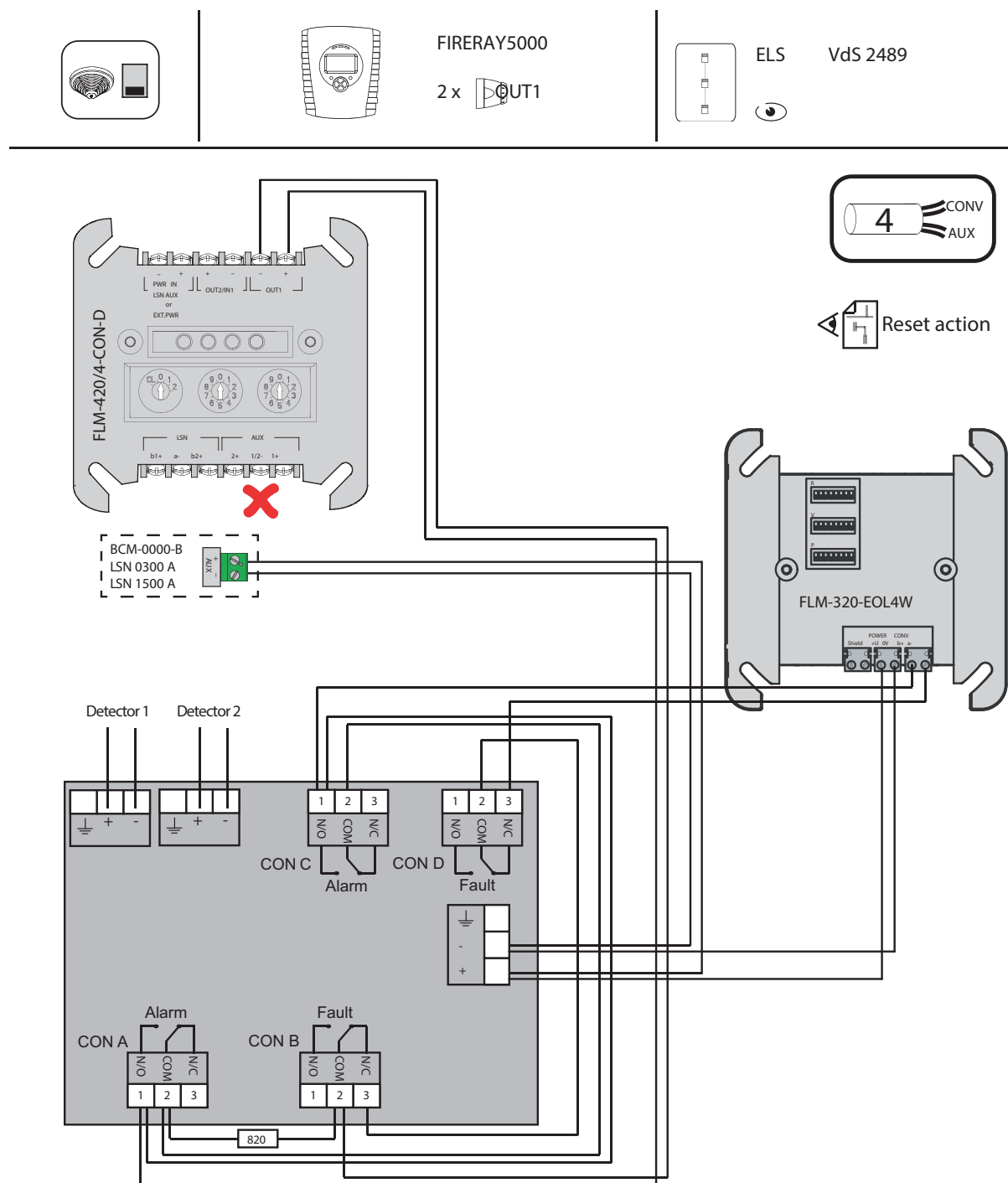
2 x 1+2

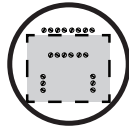


ELS

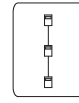
VdS 2489



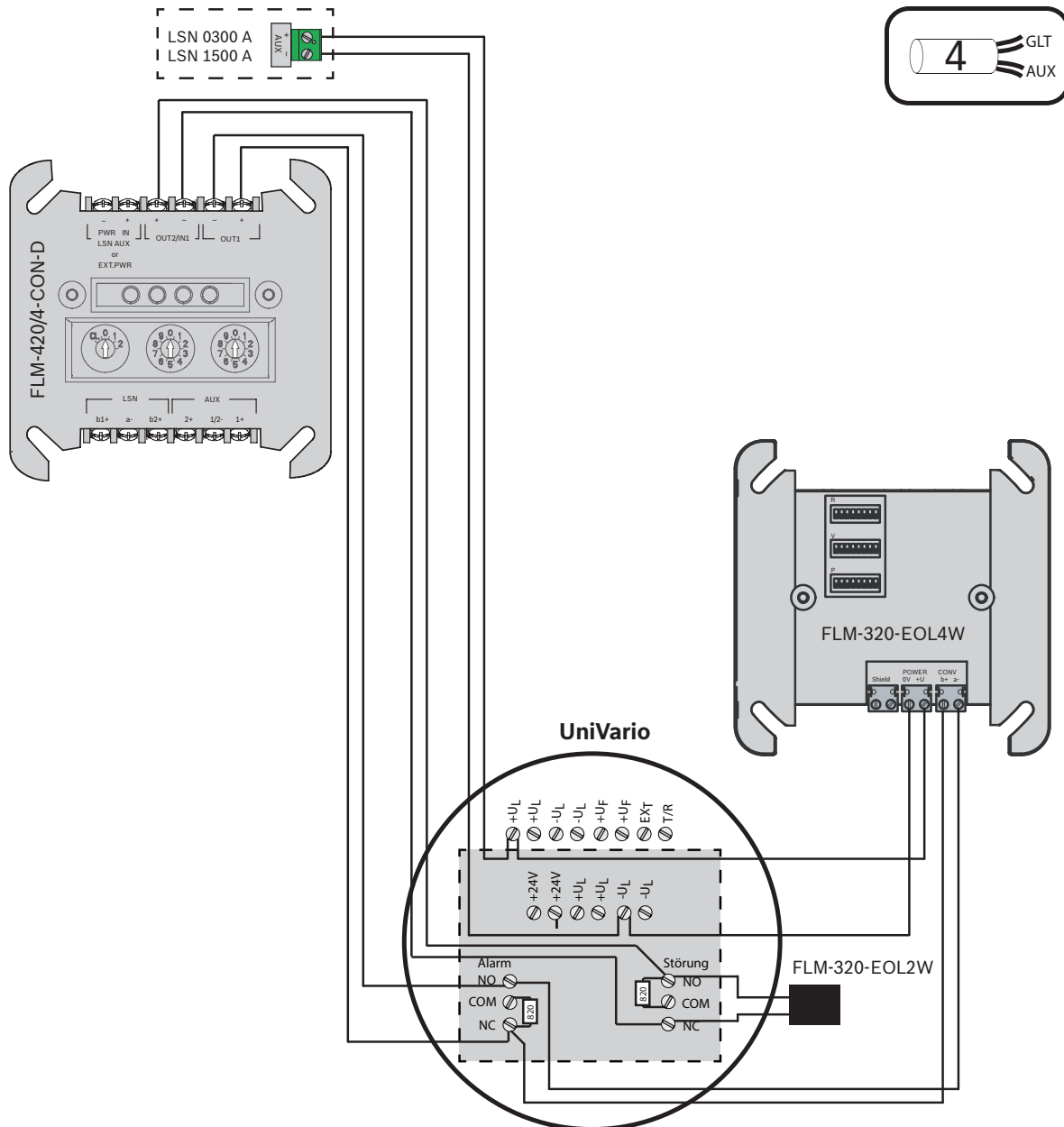




UniVario WMX5000
UniVario FMX5000
UniVario KMX5000



ELS VdS 2489



Dizin

Sayılar

016519 ->	
FLM-420/4-CON-D	138, 139, 140
FLM-420/4-CON-D (EOL)	240, 241
016589 ->	
FLM-420/4-CON-D	138, 139, 140
FLM-420/4-CON-D (EOL)	240, 241
2014/2 Ex ->	
FLM-420/4-CON-D	155
2014/2 GLU-Ex ->	
FLM-420/4-CON-D	155
837 ->	
FAA-MSR 420	23, 24
FLM-420-RHV	33, 34
838 ->	
FAA-MSR 420	23, 24
FLM-420-RHV	33, 34
858 ->	
FAA-MSR 420	23, 24
FLM-420-RHV	33, 34

A

ADW 535-1 ->	
FLM-420/4-CON-D (EOL)	223
ADW 535-2 ->	
FLM-420/4-CON-D (EOL)	224
ALARMLINE II ->	
FLM-420/4-CON-D	158
FLM-420/4-CON-D (EOL)	225
ASD 532 ->	
FLM-420/4-CON-D (EOL)	228
ASD 535-1 ->	
FLM-420/4-CON-D (EOL)	229
ASD 535-2 ->	
FLM-420/4-CON-D (EOL)	230
AT5000 IP/GPRS ->	
ENO 0000 A/B	55
ATB 420 LSNi ->	
LSN 0300 A	87
LSN 0300 A (EOL)	213, 214, 215, 216
ATG 420 LSNi ->	
LSN 0300 A	88
LSN 0300 A (EOL)	217, 218, 219, 220

B

BCM-0000-B ->	
FPP-5000-TI	19
FPP-5000-TI13	20
BTS 80 ->	
FAA-MSR 420	25, 26
BTS 80 EMB ->	
FLM-420-RHV	35, 36
BTS 80 FLB ->	
FAA-MSR 420	25, 26
FLM-420-RHV	35, 36

C

CZM 0004 A	
FCA-500	53
FCS-LWM-1	51
Fireray 50RV/100RV	52
MSS 300-WS	54

D

DC1192, SB3 ->		TS 4000 E-IS -> FLM-420-RHV	39, 40
FLM-420/4-CON-D	145	TS 5000 E -> FAA-MSR-420	29, 30
FLM-420/4-CON-D (EOL)	248	TS 5000 E -> FLM-420-RHV	39, 40
DF 1192		TS 5000 E-IS -> FAA-MSR-420	29, 30
FAA-420-RI-DIN	159	TS 5000 E-IS -> FLM-420-RHV	39, 40
DF 1192 ->		TS 5000 E-ISM -> FAA-MSR-420	29, 30
FLM-420/4-CON-D	159	TS 5000 E-ISM -> FLM-420-RHV	39, 40
DF1101-A-EX ->		TS 550 E -> FAA-MSR-420	29, 30
FLM-420/4-CON-D	145	TS 550 E -> FLM-420-RHV	39, 40
FLM-420/4-CON-D (EOL)	248	TS 73 EMF -> FAA-MSR 420	25, 26
DIBT		TS 73 EMF -> FLM-420-RHV	35, 36
837 -> FAA-MSR 420	23, 24	TS 93 EMF -> FAA-MSR 420	25, 26
837 -> FLM-420-RHV	33, 34	TS 93 EMF -> FLM-420-RHV	35, 36
838 -> FAA-MSR 420	23, 24	TS 93 GSR/EMF1 -> FAA-MSR 420	25, 26
838 -> FLM-420-RHV	33, 34	TS 93 GSR/EMF1 -> FLM-420-RHV	35, 36
858 -> FAA-MSR 420	23, 24	TS 93 GSR/EMF2 -> FAA-MSR 420	25, 26
858 -> FLM-420-RHV	33, 34	TS 93 GSR/EMF2 -> FLM-420-RHV	35, 36
BTS 80 EMB -> FAA-MSR 420	25, 26	TSA 160 NT F -> FAA-MSR-420	29, 30
BTS 80 EMB -> FLM-420-RHV	35, 36	TSA 160 NT F -> FLM-420-RHV	39, 40
BTS 80 FLB -> FAA-MSR 420	25, 26	TSA 160 NT F-IS -> FAA-MSR-420	29, 30
BTS 80 FLB -> FLM-420-RHV	35, 36	TSA 160 NT F-IS -> FLM-420-RHV	39, 40
ED 100 -> FAA-MSR-420	21, 22	TSA 160 NT F-IS/TS -> FAA-MSR-420	29, 30
ED 100 -> FLM-420-RHV	31, 32	TSA 160 NT F-IS/TS -> FLM-420-RHV	39, 40
ED 250 -> FAA-MSR-420	21, 22	TSZ 0400 -> FLM-420/4-CON-D	42
ED 250 -> FLM-420-RHV	31, 32	TSZ 0400 -> FLM-420-I2-E/-W	43
GT 40 R -> FAA-MSR 420	23, 24	TSZ 0400 -> FLM-420-O111-E	44
GT 40 R -> FLM-420-RHV	33, 34	DM 1103B-X ->	
GT 42 R -> FAA-MSR 420	23, 24	FLM-420/4-CON-D	145
GT 42 R -> FLM-420-RHV	33, 34	FLM-420/4-CON-D (EOL)	248
GT 50 R -> FAA-MSR 420	23, 24	DO1101-A-EX ->	
GT 50 R -> FLM-420-RHV	33, 34	FLM-420/4-CON-D	145
GT 60 R -> FAA-MSR 420	23, 24	FLM-420/4-CON-D (EOL)	248
GT 60 R -> FLM-420-RHV	33, 34	DS 10 ->	
GT 63 R -> FAA-MSR 420	23, 24	FLM-420-NAC-D	162, 163, 164
GT 63 R -> FLM-420-RHV	33, 34	NZM 0002 A	105, 106, 107
GT 70 R -> FAA-MSR 420	23, 24	E	
GT 70 R -> FLM-420-RHV	33, 34	ED 100 ->	
GT 70 R 050.01 Ex -> FAA-MSR 420	23, 24	FAA-MSR-420	21, 22
GT 70 R 050.01 Ex -> FLM-420-RHV	33, 34	FLM-420-RHV	31, 32
Slimdrive EMD-F -> FAA-MSR-420	27, 28	ED 250 ->	
Slimdrive EMD-F -> FLM-420-RHV	37, 38	FAA-MSR-420	21, 22
Slimdrive EMD-F-IS -> FAA-MSR-420	27, 28	FLM-420-RHV	31, 32
Slimdrive EMD-F-IS -> FLM-420-RHV	37, 38		
TS 4000 E -> FAA-MSR-420	29, 30		
TS 4000 E -> FLM-420-RHV	39, 40		
TS 4000 EFS -> FAA-MSR-420	29, 30		
TS 4000 EFS -> FLM-420-RHV	39, 40		
TS 4000 E-IS -> FAA-MSR-420	29, 30		

ELS VdS 2489	15, 62	EOL	181, 182, 183
ENO 0000 A		016519 -> FLM-420/4-CON-D	240, 241
TF2F	57	016589 -> FLM-420/4-CON-D	240, 241
ENO 0000 A/B		ADW 535-1 -> FLM-420/4-CON-D	223
AT5000 IP/GPRS	55	ADW 535-2 -> FLM-420/4-CON-D	224
GÜ 101-B	60, 61	ALARMLINE II -> FLM-420/4-CON-D	225
MDL-F	56	ASD 532 -> FLM-420/4-CON-D	228
UE-F-D/T	59	ASD 535-1 -> FLM-420/4-CON-D	229
ENO 0000 B		ASD 535-2 -> FLM-420/4-CON-D	230
TF2F	58	ATB 420 LSNi -> LSN 0300 A	213, 214, 215, 216
		ATG 420 LSNi -> LSN 0300 A	217, 218, 219, 220
		DC1192, SB3 -> FLM-420/4-CON-D	248
		DF1101-A-EX -> FLM-420/4-CON-D	248
		DM 1103B-X -> FLM-420/4-CON-D	248
		DO1101-A-EX -> FLM-420/4-CON-D	248
		FAA-500 -> LSN 0300 A	200
		FAA-500-R -> LSN 0300 A	200
		FAA-MSR 420 -> LSN 0300 A	201
		FAP-425	234
		FAP-425 -> LSN 0300 A	201, 202
		FAP-520 -> LSN 0300 A	200
		FAS-420 -> LSN 0300 A	203, 204
		FAS-420-TM -> LSN 0300 A	205, 206, 207, 208
		FBF 100 LSN -> LSN 0300 A	209, 210, 211, 212
		FCA-500-EU -> FLM-420/4-CON-D	235
		FCH-320	234
		FCH-320 -> LSN 0300 A	202
		FCP-320	234
		FCP-320 -> LSN 0300 A	202
		FCS-320-TM -> FLM-420/4-CON-D	236
		FCS-320-TP1 -> FLM-420/4-CON-D	237
		FCS-320-TP2 -> FLM-420/4-CON-D	238
		FCS-LHD-2 -> FLM-420/4-CON-D	225
		FCS-LWM-1 -> FLM-420/4-CON-D	231
		FIRERAY3000 -> FLM-420/4-CON-D	243, 244, 245
		FIRERAY5000 -> FLM-420/4-CON-D	246, 247
		Fireray 50RV/100RV -> FLM-420/4-CON-D	242
		FK 100 LSN -> LSN 0300 A	221, 222
		FLM-420/4-CON -> LSN 0300 A	192, 193
		FLM-420-I2-D -> LSN 0300 A	185
		FLM-420-I2-E/-W -> LSN 0300 A	186
		FLM-420-I8R1-S -> LSN 0300 A	187
		FLM-420-NAC-D -> LSN 0300 A	194, 195
		FLM-420-O1I1-D -> LSN 0300 A	185
		FLM-420-O1I1-E -> LSN 0300 A	188
		FLM-420-O8I2-S -> LSN 0300 A	189
		FLM-420-RHV -> LSN 0300 A	185
		FLM-420-RLV1-D -> LSN 0300 A	185
		FLM-420-RLV1-E -> LSN 0300 A	190

FLM-I 420-S -> LSN 0300 A	191
FMC-120-DKM -> FLM-420/4-CON-D	232
FMC-120-EST -> FLM-420/4-CON-D	232
FMC-210-... -> LSN 0300 A	196
FMC-300 -> FLM-420/4-CON-D	233
FNM-420-A/-B -> LSN 0300 A	197
FNM-420-A-BS -> LSN 0300 A	198, 199
FNM-420U-A/-B -> LSN 0300 A	197
FNM-420U-A-BS -> LSN 0300 A	198, 199
FNM-420V-A -> LSN 0300 A	197
KMX-5000 -> FLM-420/4-CON-D	249
MS 400/MS 400 B -> FLM-420/4-CON-D	234
MS 400/MS 400 B -> LSN 0300 A	202
N4387A -> FLM-420/4-CON-D	239
OSID -> FLM-420/4-CON-D	227
Reset action	184
thefirebeam -> FLM-420/4-CON-D	226
Typ K -> FLM-420/4-CON-D	248
UniVario -> FLM-420/4-CON-D	249
WMX-5000 -> FLM-420/4-CON-D	249

F

FAA-420-RI-DIN ->	
DF 1192	159
FAA-500	83, 200
FAA-MSR 420	84, 201
FAA-MSR-420	45, 46, 47
FAD-0420	76
FAP-425	85, 202, 234
FCA-500	53, 147
FCA-500-EU	235
FCH-320	85, 154, 202, 234
FCP-320	85, 154, 202, 234
FCS-LWM-1	51, 141
FNM-420-A-BS	81, 198
FNM-420U-A-BS	81, 198
MS 400/MS 400 B	85, 154, 202, 234
MSS 300-WS	54, 160
FAA-420-RI-ROW ->	
FAA-MSR-420	45
FAA-500	
FAA-420-RI-DIN	83, 200
FAA-500 ->	
LSN 0300 A	83
LSN 0300 A (EOL)	200
FAA-500-R ->	
LSN 0300 A (EOL)	200
FAA-MSR 420	
FAA-420-RI-DIN	84, 201
FAA-MSR 420 ->	
63 R	23, 24
837	23, 24
838	23, 24
858	23, 24
GT 40 R	23, 24
GT 42 R	23, 24
GT 50 R	23, 24
GT 60 R	23, 24
GT 70 R	23, 24
GT 70 R 050.01 Ex	23, 24
LSN 0300 A	84
LSN 0300 A (EOL)	201
FAA-MSR 420 -> BTS 80 EMB	25, 26
FAA-MSR 420 -> BTS 80 FLB	25, 26
FAA-MSR 420 -> TS 73 EMF	25, 26
FAA-MSR 420 -> TS 93 EMF	25, 26
FAA-MSR 420 -> TS 93 GSR/EMF1	25, 26

FAA-MSR 420 -> TS 93 GSR/EMF2	25, 26	FBF 100 LSN ->	
FAA-MSR-420		LSN 0300 A	91
ED 100	21, 22	LSN 0300 A (EOL)	209, 210, 211, 212
ED 250	21, 22	FCA-500	
FAA-420-RI-DIN	45, 46, 47	FAA-420-RI-DIN	53, 147
FAA-420-RI-ROW	45	FCA-500 ->	
Slimdrive EMD-F	27, 28	CZM 0004 A	53
Slimdrive EMD-F-IS	27, 28	FCA-500-EU	
TS 4000 E	29, 30	FAA-420-RI-DIN	235
TS 4000 EFS	29, 30	FCA-500-EU ->	
TS 4000 E-IS	29, 30	FLM-420/4-CON-D	147
TS 5000 E	29, 30	FLM-420/4-CON-D (EOL)	235
TS 5000 E-IS	29, 30	FCH-320	
TS 5000 E-ISM	29, 30	FAA-420-RI-DIN	85, 154, 202, 234
TS 550 E	29, 30	FCH-320 ->	
TSA 160 NT F	29, 30	FLM-420/4-CON-D	154
TSA 160 NT F-IS	29, 30	FLM-420/4-CON-D (EOL)	234
TSA 160 NT F-IS/TS	29, 30	LSN 0300 A	85
FAD-0420		LSN 0300 A (EOL)	202
FAA-420-RI-DIN	76	FCP-320	
FAD-420-HS-EN ->		FAA-420-RI-DIN	85, 154, 202, 234
LSN 0300 A	76, 77	FCP-320 ->	
FAP-425		FLM-420/4-CON-D	154
FAA-420-RI-DIN	85, 202, 234	FLM-420/4-CON-D (EOL)	234
FAP-425 ->		LSN 0300 A	85
FLM-420/4-CON-D	154	LSN 0300 A (EOL)	202
FLM-420/4-CON-D (EOL)	234	FCP-500 ->	
LSN 0300 A	85	FLM-420/4-CON-D	147
LSN 0300 A (EOL)	201, 202	FCS-320-TM ->	
FAP-520 ->		FLM-420/4-CON-D	142
LSN 0300 A	83	FLM-420/4-CON-D (EOL)	236
LSN 0300 A (EOL)	200	FCS-320-TP1 ->	
FAS-420 ->		FLM-420/4-CON-D	143
LSN 0300 A	78	FLM-420/4-CON-D (EOL)	237
LSN 0300 A (EOL)	203, 204	FCS-320-TP2 ->	
FAS-420-TM ->		FLM-420/4-CON-D	144
LSN 0300 A	79	FLM-420/4-CON-D (EOL)	238
LSN 0300 A (EOL)	205, 206, 207, 208	FCS-LHD-2 ->	
FAT 2002 RE ->		FLM-420/4-CON-D	158
FLM-420-I2-D (IOS 0020 A)	118	FLM-420/4-CON-D (EOL)	225
FLM-420-I2-E/-W (IOS 0020 A)	118	FCS-LWM-1	
IOS 0020 A	116	FAA-420-RI-DIN	51, 141
IOS 0020 A (IOP 0008 A)	117	FCS-LWM-1 ->	
FAT5 ->		CZM 0004 A	51
FPE-5000-UGM	132	FLM-420/4-CON-D	141
IOS 0020 A	119	FLM-420/4-CON-D (EOL)	231
FAT-T-G/FAT-G-G ->		FIRERAY3000 ->	
FPE-5000-UGM	133, 134, 135	FLM-420/4-CON-D	149, 150, 151
IOS 0020 A	120, 121, 122, 123, 124, 125	FLM-420/4-CON-D (EOL)	243, 244, 245

FIRERAY5000 ->		FCS-320-TP2	144
FLM-420/4-CON-D	152, 153	FCS-320-TP2 (EOL)	238
FLM-420/4-CON-D (EOL)	246, 247	FCS-LHD-2	158
Fireray 50RV/100RV ->		FCS-LHD-2 (EOL)	225
CZM 0004 A	52	FCS-LWM-1	141
FLM-420/4-CON-D	148	FCS-LWM-1 (EOL)	231
FLM-420/4-CON-D (EOL)	242	FIRERAY3000	149, 150, 151
FK 100 LSN ->		FIRERAY3000 (EOL)	243, 244, 245
LSN 0300 A	96	FIRERAY5000	152, 153
LSN 0300 A (EOL)	221, 222	FIRERAY5000 (EOL)	246, 247
FLM-420/4-CON ->		Fireray 50RV/100RV	148
LSN 0300 A	89	Fireray 50RV/100RV (EOL)	242
LSN 0300 A (EOL)	192, 193	FMC-120-DKM	156
FLM-420/4-CON-D		FMC-120-DKM (EOL)	232
016519	138, 139, 140	FMC-120-EST (EOL)	232
016519 (EOL)	240, 241	FMC-300	161
016589	138, 139, 140	FMC-300 (EOL)	233
016589 (EOL)	240, 241	KMX-5000 (EOL)	249
2014/2 Ex	155	MS 400/MS 400 B	154
2014/2 GLU-Ex	155	MS 400/MS 400 B (EOL)	234
ADW 535-1 (EOL)	223	MSS 300-WS	160
ADW 535-2 (EOL)	224	N4387A	137
ALARMLINE II	158	N4387A (EOL)	239
ALARMLINE II (EOL)	225	NO-Relay	157
ASD 532 (EOL)	228	OSID (EOL)	227
ASD 535-1 (EOL)	229	thefirebeam (EOL)	226
ASD 535-2 (EOL)	230	TSZ 0400	42
DC1192, SB3	145	Typ K (EOL)	248
DC1192, SB3 (EOL)	248	UniVario (EOL)	249
DF 1192	159	WMX-5000 (EOL)	249
DF1101-A-EX	145	X9800	146
DF1101-A-EX (EOL)	248	FLM-420-I2-D	
DM 1103B-X	145	FAT 2002 RE (IOS 0020 A)	118
DM 1103B-X (EOL)	248	FLM-420-I2-D ->	
DO1101-A-EX	145	LSN 0300 A	63
DO1101-A-EX (EOL)	248	LSN 0300 A (EOL)	185
FAP-425	154	FLM-420-I2-E/-W	
FAP-425 (EOL)	234	FAT 2002 RE (IOS 0020 A)	118
FCA-500-EU	147	TSZ 0400	43
FCA-500-EU (EOL)	235	FLM-420-I2-E/-W ->	
FCH-320	154	LSN 0300 A	64
FCH-320 (EOL)	234	LSN 0300 A (EOL)	186
FCP-320	154	FLM-420-I8R1-S ->	
FCP-320 (EOL)	234	LSN 0300 A	65
FCP-500	147	LSN 0300 A (EOL)	187
FCS-320-TM	142	FLM-420-NAC-D	
FCS-320-TM (EOL)	236	DS 10	162, 163, 164
FCS-320-TP1	143	FNM-320	169, 170
FCS-320-TP1 (EOL)	237	FNM-320V	171, 172

FNS-320	167, 168	GT 40 R	33, 34
FPP-5000	49	GT 42 R	33, 34
MSS 300-SA	173, 174	GT 50 R	33, 34
PB 2005	165, 166	GT 60 R	33, 34
ROLP-R-LX	169, 170	GT 70 R	33, 34
ROLP-W-LX	169, 170	GT 70 R 050.01 Ex	33, 34
SOL-LX	167, 168	LSN 0300 A	63
FLM-420-NAC-D ->		LSN 0300 A (EOL)	185
FPP-5000	50	FLM-420-RLE-S	
LSN 0300 A	68, 69	LA	175
LSN 0300 A (EOL)	194, 195	FLM-420-RLE-S ->	
LSN 300 A, BCM 0000 B	70	LSN 0300 A	71
FLM-420-O1I1-D ->		FLM-420-RLV1-D ->	
LSN 0300 A	72, 73	LSN 0300 A	63
LSN 0300 A (EOL)	185	LSN 0300 A (EOL)	185
FLM-420-O1I1-E		FLM-420-RLV1-E	
TSZ 0400	44	Plena	176
FLM-420-O1I1-E ->		FLM-420-RLV1-E ->	
LSN 0300 A	74	LSN 0300 A	64
LSN 0300 A (EOL)	188	LSN 0300 A (EOL)	190
FLM-420-O8I2-S ->		FLM-420-RLV8-S	
LSN 0300 A	66, 67	Plena	177
LSN 0300 A (EOL)	189	FLM-420-RLV8-S ->	
FLM-420-RHV		LSN 0300 A	75
BTS EMB	35, 36	FLM-I 420-S ->	
BTS FLB	35, 36	LSN 0300 A	63
ED 100	31, 32	LSN 0300 A (EOL)	191
ED 250	31, 32	FMC-120-DKM ->	
Slimdrive EMD-F	37, 38	FLM-420/4-CON-D	156
Slimdrive EMD-F-IS	37, 38	FLM-420/4-CON-D (EOL)	232
TS 4000 E	39, 40	FMC-120-EST ->	
TS 4000 EFS	39, 40	FLM-420/4-CON-D (EOL)	232
TS 4000 E-IS	39, 40	FMC-210-... ->	
TS 5000 E	39, 40	LSN 0300 A	93
TS 5000 E-IS	39, 40	LSN 0300 A (EOL)	196
TS 5000 E-ISM	39, 40	FMC-210-IP66-R ->	
TS 550 E	39, 40	LSN 0300 A	94
TS 73 EMF	35, 36	FMC-300 ->	
TS 93 EMF	35, 36	FLM-420/4-CON-D	161
TS 93 GSR/EMF1	35, 36	FLM-420/4-CON-D (EOL)	233
TS 93 GSR/EMF2	35, 36	FMC-420RW ->	
TSA 160 NT F	39, 40	LSN 0300 A	95
TSA 160 NT F-IS	39, 40	FMF-ADP ->	
TSA 160 NT F-IS/TS	39, 40	FPE-5000-UGM	131
FLM-420-RHV ->		IOS 0020 A	129, 130
63 R	33, 34	FMF-ADP-FAT	
837	33, 34	FMF-FAT	178, 179
838	33, 34	FMF-FBF-FAT	178, 179
858	33, 34	FMF-FAT ->	

FPE-5000-UGM	131	FMF-FBF-FAT ->FMF-ADP-FBF	178, 179
IOS 0020 A	129, 130	FMF-FIBS ->	
FMF-FAT ->FMF-ADP-FBF	178, 179	FPE-5000-UGM	131
FMF-FBF-FAT ->		IOS 0020 A	129, 130
FPE-5000-UGM	131	FNM-320 ->	
IOS 0020 A	129, 130	FLM-420-NAC-D	169, 170
		NZM 0002 A	101, 102
		FNM-320V ->	
		FLM-420-NAC-D	171, 172
		LSN 0300 A (FLM-420-RLV1-E)	90
		NZM 0002 A	103, 104
		FNM-420-A/-B ->	
		LSN 0300 A	80
		LSN 0300 A (EOL)	197
		FNM-420-A-BS	
		FAA-420-RI-DIN	81, 198
		FNM-420-A-BS ->	
		LSN 0300 A	81, 82
		LSN 0300 A (EOL)	198, 199
		FNM-420U-A/-B ->	
		LSN 0300 A	80
		LSN 0300 A (EOL)	197
		FNM-420U-A-BS	
		FAA-420-RI-DIN	81, 198
		FNM-420U-A-BS ->	
		LSN 0300 A	81, 82
		LSN 0300 A (EOL)	198, 199
		FNM-420V-A ->	
		LSN 0300 A	80
		LSN 0300 A (EOL)	197
		FNS-320 ->	
		FLM-420-NAC-D	167, 168
		NZM 0002 A	98, 99, 100
		FNS-P400RTH ->	
		RMH 0002 A	115
		FPE-5000-UGM	
		FAT5	132
		FAT-T-G/FAT-G-G	133, 134, 135
		FMF-ADP	131
		FMF-FAT	131
		FMF-FBF-FAT	131
		FMF-FIBS	131
		FPP-5000	
		FLM-420-NAC-D	50
		FPP-5000 ->	
		FLM-420-NAC-D	49
		FPP-5000-TI	
		BCM-0000-B	19
		FPP-5000-TI13	

BCM-0000-B	20	L	
G		LA ->	
GSME-L3 ->		FLM-420-RLE-S	175
LSN 0300 A	86	LSN 0300 A (FLM-420-RLE-S)	92
GT 40 R ->		RMH 0002 A	113
FAA-MSR 420	23, 24	LSN 0300 A	
FLM-420-RHV	33, 34	ATB 420 LSNi	87
GT 42 R ->		ATB 420 LSNi (EOL)	213, 214, 215, 216
FAA-MSR 420	23, 24	ATG 420 LSNi	88
FLM-420-RHV	33, 34	ATG 420 LSNi (EOL)	217, 218, 219, 220
GT 50 R ->		FAA-500	83
FAA-MSR 420	23, 24	FAA-500 (EOL)	200
FLM-420-RHV	33, 34	FAA-500-R (EOL)	200
GT 60 R ->		FAA-MSR 420	84
FAA-MSR 420	23, 24	FAA-MSR 420 (EOL)	201
FLM-420-RHV	33, 34	FAD-420-HS-EN	76, 77
GT 63 R ->		FAP-425	85
FAA-MSR 420	23, 24	FAP-425 (EOL)	201, 202
FLM-420-RHV	33, 34	FAP-520	83
GT 70 R ->		FAP-520 (EOL)	200
FAA-MSR 420	23, 24	FAS-420	78
FLM-420-RHV	33, 34	FAS-420 (EOL)	203, 204
GT 70 R 050.01 Ex ->		FAS-420-TM	79
FAA-MSR 420	23, 24	FAS-420-TM (EOL)	205, 206, 207, 208
FLM-420-RHV	33, 34	FBF 100 LSN	91
GÜ 101-B ->		FBF 100 LSN (EOL)	209, 210, 211, 212
ENO 0000 A/B	60, 61	FCH-320	85
H		FCH-320 (EOL)	202
HPW11 ->		FCP-320	85
RMH 0002 A	114	FCP-320 (EOL)	202
I		FK 100 LSN	96
IOP 0008 A	128	FK 100 LSN (EOL)	221, 222
IOS 0020 A		FLM-420/4-CON	89
FAT 2002 RE	116	FLM-420/4-CON (EOL)	192, 193
FAT 2002 RE (IOP 0008 A)	117	FLM-420-I2-D	63
FAT5	119	FLM-420-I2-D (EOL)	185
FAT-T-G/FAT-G-G	120, 121, 122, 123, 124, 125	FLM-420-I2-E/-W	64
FMF-ADP	129, 130	FLM-420-I2-E/-W (EOL)	186
FMF-FAT	129, 130	FLM-420-I8R1-S	65
FMF-FBF-FAT	129, 130	FLM-420-I8R1-S (EOL)	187
FMF-FIBS	129, 130	FLM-420-NAC-D	68, 69
Plena	126	FLM-420-NAC-D (EOL)	194, 195
THP 2020 A	127	FLM-420-O1I1-D	72, 73
K		FLM-420-O1I1-D (EOL)	185
KMX-5000 ->		FLM-420-O1I1-E	74
FLM-420/4-CON-D (EOL)	249	FLM-420-O1I1-E (EOL)	188
		FLM-420-O8I2-S	66, 67
		FLM-420-O8I2-S (EOL)	189
		FLM-420-RHV	63

FLM-420-RHV (EOL)	185
FLM-420-RLE-S	71
FLM-420-RLV1-D	63
FLM-420-RLV1-D (EOL)	185
FLM-420-RLV1-E	64
FLM-420-RLV1-E (EOL)	190
FLM-420-RLV8-S	75
FLM-I 420-S	63
FLM-I 420-S (EOL)	191
FMC-210-...	93
FMC-210-... (EOL)	196
FMC-210-IP66-R	94
FMC-420RW	95
FNM-320V (FLM-420-RLV1-E)	90
FNM-420-A/-B	80
FNM-420-A/-B (EOL)	197
FNM-420-A-BS	81, 82
FNM-420-A-BS (EOL)	198, 199
FNM-420U-A/-B	80
FNM-420U-A/-B (EOL)	197
FNM-420U-A-BS	81, 82
FNM-420U-A-BS (EOL)	198, 199
FNM-420V-A	80
FNM-420V-A (EOL)	197
GSME-L3	86
LA (FLM-420-RLE-S)	92
MS 400/MS 400 B	85
MS 400/MS 400 B (EOL)	202
M	
MDL-F ->	
ENO 0000 A/B	56
MS 400	
TSZ 0400 (FCP-O320 / FCH-T320 FSA)	41
MS 400/MS 400 B	
FAA-420-RI-DIN	85, 154, 202, 234
MS 400/MS 400 B ->	
FLM-420/4-CON-D	154
FLM-420/4-CON-D (EOL)	234
LSN 0300 A	85
LSN 0300 A (EOL)	202
MSS 300-SA ->	
FLM-420-NAC-D	173, 174
NZM 0002 A	111, 112
MSS 300-WS	
FAA-420-RI-DIN	54, 160
MSS 300-WS ->	
CZM 0004 A	54
FLM-420/4-CON-D	160

N

N4387A ->	
FLM-420/4-CON-D	137
FLM-420/4-CON-D (EOL)	239
NO-Relay ->	
FLM-420/4-CON-D	157
NZM 0002 A	
DS 10	105, 106, 107
FNM-320	101, 102
FNM-320V	103, 104
FNS-320	98, 99, 100
MSS 300-SA	111, 112
NZM 0002 A	97
PB 2005	108, 109, 110
ROLP-W-LX	101, 102
SOL-LX	98, 99, 100
NZM 0002 A ->	
NZM 0002 A	97

O

OSID ->	
FLM-420/4-CON-D (EOL)	227

P

PB 2005 ->	
FLM-420-NAC-D	165, 166
NZM 0002 A	108, 109, 110
Plena ->	
FLM-420-RLV1-E	176
FLM-420-RLV8-S	177
IOS 0020 A	126

R

Redundancy	
ENO	61
LSN 0300 A	92
NZM 0002 A	97
Panel controller	92
Reset action	184
RMH 0002 A	
FNS-P400RTH	115
HPW11	114
LA	113
ROLP-R-LX ->	
FLM-420-NAC-D	169, 170
ROLP-W-LX ->	
FLM-420-NAC-D	169, 170
NZM 0002 A	101, 102

S

Slimdrive EMD-F ->	
FAA-MSR-420	27, 28
FLM-420-RHV	37, 38
Slimdrive EMD-F-IS ->	
FAA-MSR-420	27, 28
FLM-420-RHV	37, 38
SOL-LX ->	
FLM-420-NAC-D	167, 168
NZM 0002 A	98, 99, 100

T

TF2F ->	
ENO 0000 A	57
ENO 0000 B	58
thefirebeam ->	
FLM-420/4-CON-D (EOL)	226
THP 2020 A ->	
IOS 0020 A	127
TS 4000 E ->	
FAA-MSR-420	29, 30
FLM-420-RHV	39, 40
TS 4000 EFS ->	
FAA-MSR-420	29, 30
FLM-420-RHV	39, 40
TS 4000 E-IS ->	
FAA-MSR-420	29
FLM-420-RHV	39, 40
TS 4000 E-IS->	
FAA-MSR-420	30
TS 5000 E ->	
FAA-MSR-420	29, 30
FLM-420-RHV	39, 40
TS 5000 E-IS ->	
FAA-MSR-420	29, 30
FLM-420-RHV	39, 40
TS 5000 E-ISM ->	
FAA-MSR-420	29, 30
FLM-420-RHV	39, 40
TS 550 E ->	
FAA-MSR-420	29, 30
FLM-420-RHV	39, 40
TS 73 EMF ->	
FAA-MSR 420	25, 26
FLM-420-RHV	35, 36
TS 93 EMF ->	
FAA-MSR 420	25, 26
FLM-420-RHV	35, 36
TS 93 GSR/EMF1 ->	
FAA-MSR 420	25, 26
FLM-420-RHV	35, 36
TS 93 GSR/EMF2 ->	
FAA-MSR 420	25, 26
FLM-420-RHV	35, 36
TSA 160 NT F ->	
FAA-MSR-420	29, 30
FLM-420-RHV	39, 40
TSA 160 NT F-IS ->	
FAA-MSR-420	29, 30
FLM-420-RHV	39, 40

TSA 160 NT F-IS/TS ->

FAA-MSR-420 29, 30

FLM-420-RHV 39, 40

TSZ 0400 ->

FLM-420/4-CON-D 42

FLM-420-I2-E/-W 43

FLM-420-O1I1-E 44

MS 400 (FCP-O320 / FCH-T320 FSA) 41

Typ K ->

FLM-420/4-CON-D (EOL) 248

U

UE-F-D/T ->

ENO 0000 A/B 59

UniVario ->

FLM-420/4-CON-D (EOL) 249

W

WMX-5000 ->

FLM-420/4-CON-D (EOL) 249

X

X9800 ->

FLM-420/4-CON-D 146

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