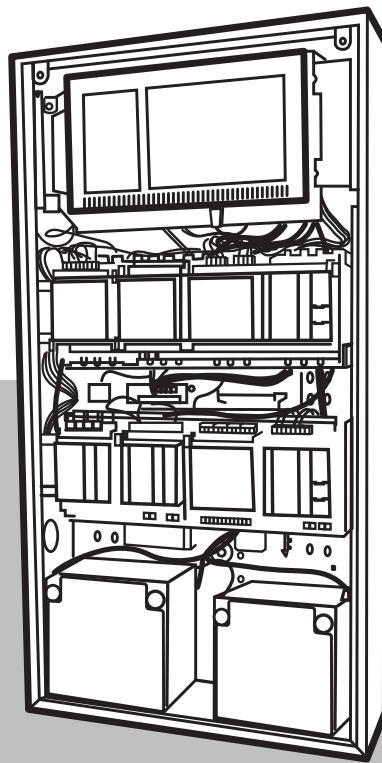


# AVENAR panel series







## Sommaro

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# 1 Avvisi

## 1.1 Contenuto

La presente guida al cablaggio illustra in linea di principio le modalità di collegamento dei dispositivi periferici alla centrale antincendio. Le normative nazionali e locali non vengono prese in considerazione. L'applicazione dei requisiti nazionali e locali può comportare ulteriori collegamenti.

**Avviso!**

I collegamenti descritti in questo documento sono validi anche per la AVENAR panel 2000, a condizione che i singoli componenti siano estensioni approvate da Bosch Sicherheitssysteme GmbH della AVENAR panel 2000.

**Avviso!**

I collegamenti LSN 0300 A riportati nel presente documento si applicano anche al modulo LSN 1500 A.

Per quanto riguarda il modulo LSN 1500 A, tenere presente che per le installazioni in Germania, dove è richiesta la conformità a VdS 2540, la linea AUX e la linea LSN devono essere in cavi separati.

## 1.2 Informazioni sul prodotto

- Le istruzioni di installazione per i singoli componenti della centrale FACP sono riportate nel manuale di installazione in dotazione.
- Ulteriori informazioni (manuali utente, guida al collegamento in rete, manuale di sistema) sono disponibili su Internet all'indirizzo: [www.boschsecurity.com](http://www.boschsecurity.com)

## 1.3 Note importanti

- Utilizzare solo i materiali necessari all'installazione consigliati da Bosch Security Systems.
- Indossare sempre un cinturino con messa a terra quando si effettuano modifiche e lavori di saldatura.
- L'assemblaggio e l'installazione devono essere eseguiti solo da personale qualificato.
- Osservare i criteri di collegamento stabiliti dalle normative locali vigenti.



### Pericolo!

Il contatto con componenti scoperti potrebbe avere conseguenze letali.  
Prima di eseguire l'installazione, scollegare l'alimentazione.

### Cavo schermato

Per tutti i collegamenti a due fili a CZM 0004 A e per il collegamento dei seguenti prodotti è necessario un cavo schermato:

- FBF 100 LSN
- FMF-ADP, FMF-FAT, FMF-FBF-FAT, FMF-FIBS-A4, FMF-FIBS-A3

Il cablaggio di esempio seguente mostra come applicare un cavo schermato.

### Avviso!

Se è necessario collegare un cavo schermato per il cavo LSN, procedere secondo le specifiche LSN.

- Collegare il filo schermato LSN sul lato della centrale al connettore di messa a terra funzionale designato:

due connessioni all'inizio e alla fine di un loop  
una connessione all'inizio di una linea aperta

- Eseguire il loop-through del filo schermato su tutte le periferiche LSN mediante i terminali forniti

- Non sono consentite connessioni aggiuntive del filo schermato LSN, né ai connettori di messa a terra in qualsiasi posizione, né ad altri potenziali elettrici



## 1.4 Note per l'utente

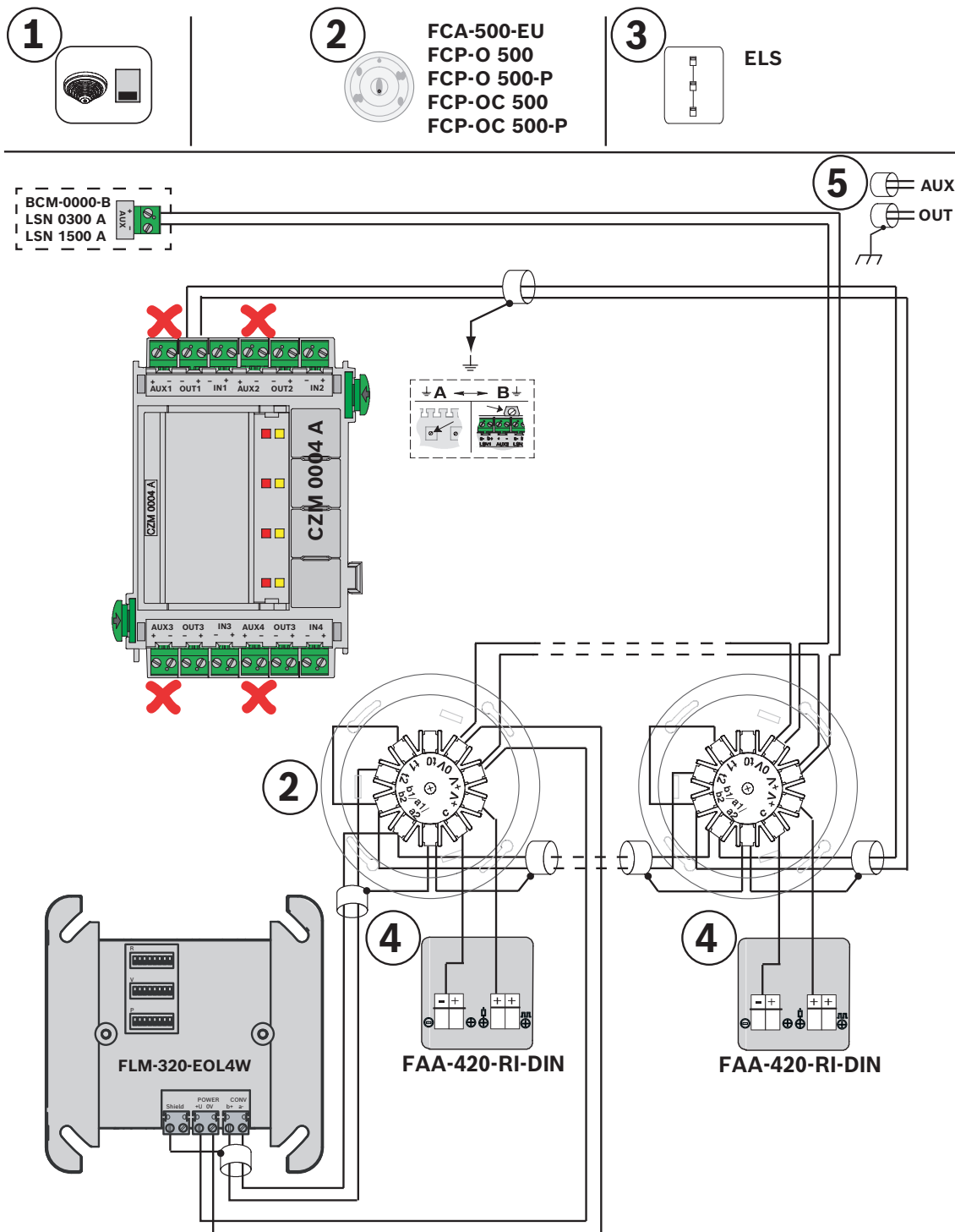
La Guida di cablaggio presenta la struttura seguente:

- Il capitolo Cablaggio è organizzato in base al dispositivo al quale è collegata la periferica. Un cablaggio mostra il collegamento diretto di un dispositivo a un altro dispositivo (senza collegamenti a cascata).
- Una raccolta di tutti i cablaggi arricchiti con moduli EOL aggiuntivi per il monitoraggio delle interruzioni di circuito lente si trova nella sezione EOL.

Per trovare il cablaggio necessario, utilizzare anche:


- il sommario all'inizio del capitolo Cablaggio e all'inizio delle sezioni Moduli funzionali, Moduli interfaccia e EOL.
- l'Index (non ordinato per lingua),
- e la ricerca di testo completo.

Vedere il seguente cablaggio esemplificativo:

















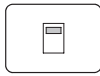
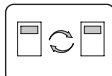

1	Simboli capitolo ( <i>Simboli capitolo, pagina 7</i> )
2	Dispositivo periferico collegabile
3	Simboli collegamento ( <i>Simboli collegamento, pagina 7</i> )
4	Componenti opzionali
5	Alimentazione e cablaggio ( <i>Alimentazione e cablaggio, pagina 8</i> )

### 1.4.1 Simboli capitolo



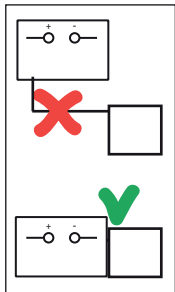
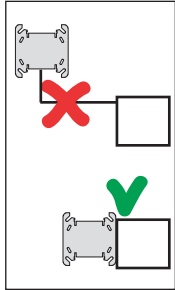

	Rivelatori automatici		Pannelli operativi e display		Stampante
	Alimentazione		Moduli funzionali		Dispositivi per il servizio antincendio
	Moduli interfaccia		Sistemi di spegnimento		Pulsanti manuali
	Dispositivi di segnalazione		Controlli porte		Unità di trasmissione

### 1.4.2 Simboli collegamento

	Cablaggio obbligatorio		Cablaggio opzionale		Non consentito
	Ridondanza		Cablaggio in loop		Cablaggio in loop con elemento ridondante
	Cablaggio in linea aperta		Cablaggio in linea aperta ridondante		Cablaggio in linea aperta con elemento ridondante
	Cablaggio in linea aperta ridondante con elemento ridondante	ELS	<p>Questo cablaggio è conforme allo standard VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS sta per supervisione di linea estesa (Extended Line Supervision), che significa monitoraggio dei cortocircuiti e delle interruzioni di circuito lenti. Il cablaggio presenta ELS.</p> <p>Un cortocircuito lento viene rilevato dai seguenti moduli: LSN 0300 A, LSN 1500 A e BCM-0000-B con utilizzo di FPP-5000-TI13.</p>		Questo cablaggio in loop è conforme allo standard VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. Offre la funzione ELS. Non sono necessari moduli EOL aggiuntivi.
	Sincronizzazione		Aree con pericolo di esplosione		Centrale

	Centrale autonoma		Centrale autonoma con ridondanza		Per le basi del rivelatore: il cablaggio è valido unicamente per la base del rivelatore in cui quest'ultimo è installato.
EN 54-2, DIBT ecc.	Per assicurare la conformità a questo standard, utilizzare il cablaggio specificato.				

### 1.4.3 Alimentazione e cablaggio

	È necessario un cavo a 2 fili.
	È necessario un cavo schermato a 2 fili.
	L'alloggiamento del prodotto contenente l'alimentatore deve essere montato ad incasso con l'elemento.
	Per il modulo interfaccia è necessario il montaggio ad incasso.
 <b>Reset action</b>	Consultare il cablaggio nel presente manuale. Per fornire il ripristino automatico del dispositivo è necessario implementare l'azione di ripristino.

## 1.5 Valori di resistenza

La seguente tabella mostra una panoramica delle codifiche dei colori per le resistenze. Le resistenze della pellicola di metallo fornite con il prodotto presentano 5 bande colorate che ne indicano il valore.

Colore	1. banda	2. banda	3. banda	4. banda (moltiplicatore)	5. banda (tolleranza)
Argento				$10^{-2}$	$\pm 10\%$
Oro				$10^{-1}$	$\pm 5\%$
Nero		0	0	$10^0$	
Marrone	1	1	1	$10^1$	$\pm 1\%$

<b>Colore</b>	<b>1. banda</b>	<b>2. banda</b>	<b>3. banda</b>	<b>4. banda (moltiplicatore)</b>	<b>5. banda (tolleranza)</b>
Rosso	2	2	2	10 <sup>2</sup>	±2%
Arancione	3	3	3	10 <sup>3</sup>	±0.05%
Giallo	4	4	4	10 <sup>4</sup>	±0.02%
Verde	5	5	5	10 <sup>5</sup>	±0.5%
Blu	6	6	6	10 <sup>6</sup>	±0.25%
Viola	7	7	7	10 <sup>7</sup>	±0.1%
Grigio	8	8	8	10 <sup>8</sup>	±0.01%
Bianco	9	9	9	10 <sup>9</sup>	

Conforme a DIN EN 60062:2017

*Arancione - Bianco - Nero - Marrone - Marrone:* resistenza di 3.900 Ohm con tolleranza dell'1%

*Rosso - Rosso - Nero - Marrone - Marrone:* resistenza di 2.200 Ohm con tolleranza dell'1%

## 2 Wiring



*FPP-5000 Power supply, pagina 11*

*FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6), pagina 13*

*DIBT, pagina 15*

*Functional Modules, pagina 42*

*BCM-000-B, pagina 43*

*CZM 0004 A, pagina 45*

*ENO 0000 A/B, pagina 61*

*LSN 0300 A, pagina 68*

*NZM 0002 A, pagina 106*

*RMH 0002 A, pagina 119*

*IOS 0020 A, pagina 120*

*FPE-5000-UGM, pagina 122*

*Interface Modules, pagina 124*

*FLM-420-4/CON-D/S, pagina 125*

*FLM-420-I8R1-S, pagina 158*

*FLM-420-NAC-D/S, pagina 160*

*FLM-420-RHV, pagina 172*

*FLM-420-RLE-S, pagina 184*

*FLM-420-RLV1-E, pagina 185*

*FLM-420-RLV8-S, pagina 186*

*FMF-ADP-FBF/FMF-ADP-TTY, pagina 187*

*EOL, pagina 188*

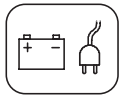
*CZM 0004 A, pagina 189*

*LSN 0300 A, pagina 201*

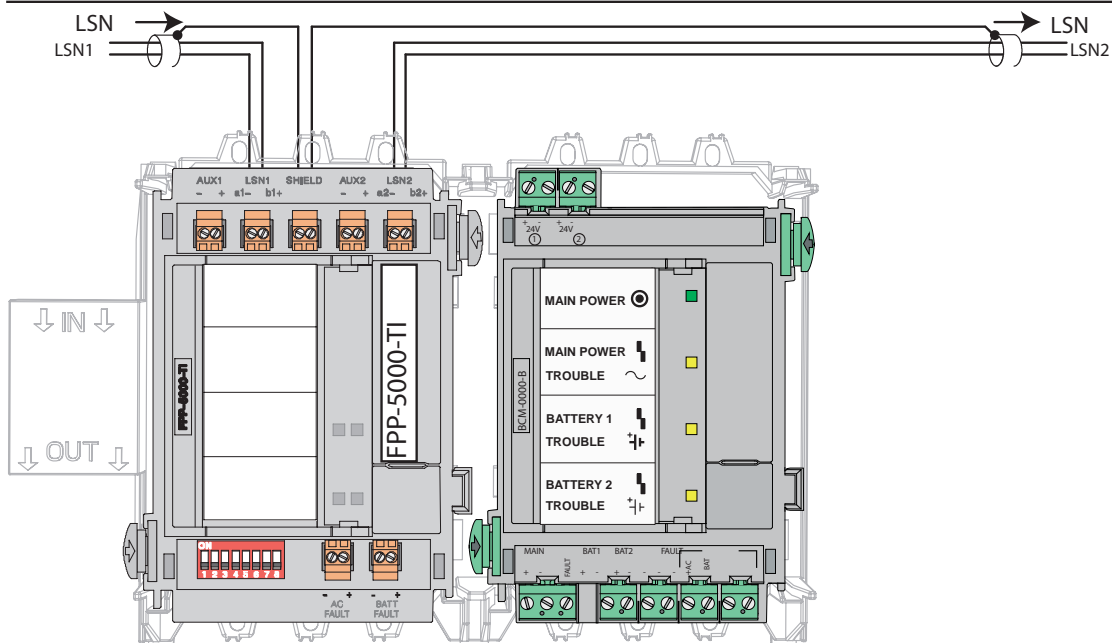
*FLM-420/4-CON-S/D, pagina 246*

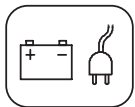


## 2.1 FPP-5000 Power supply



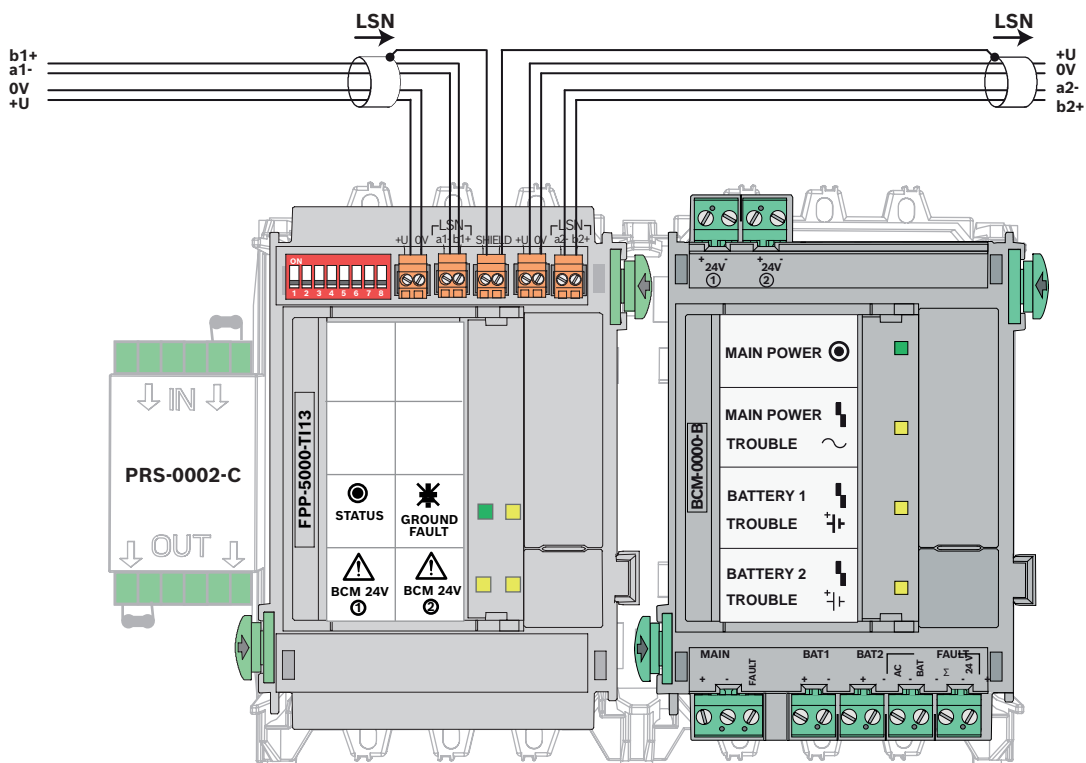
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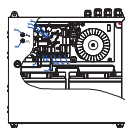
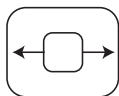


FPP-5000-TI13

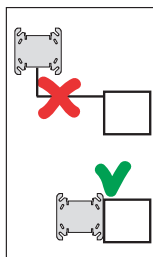
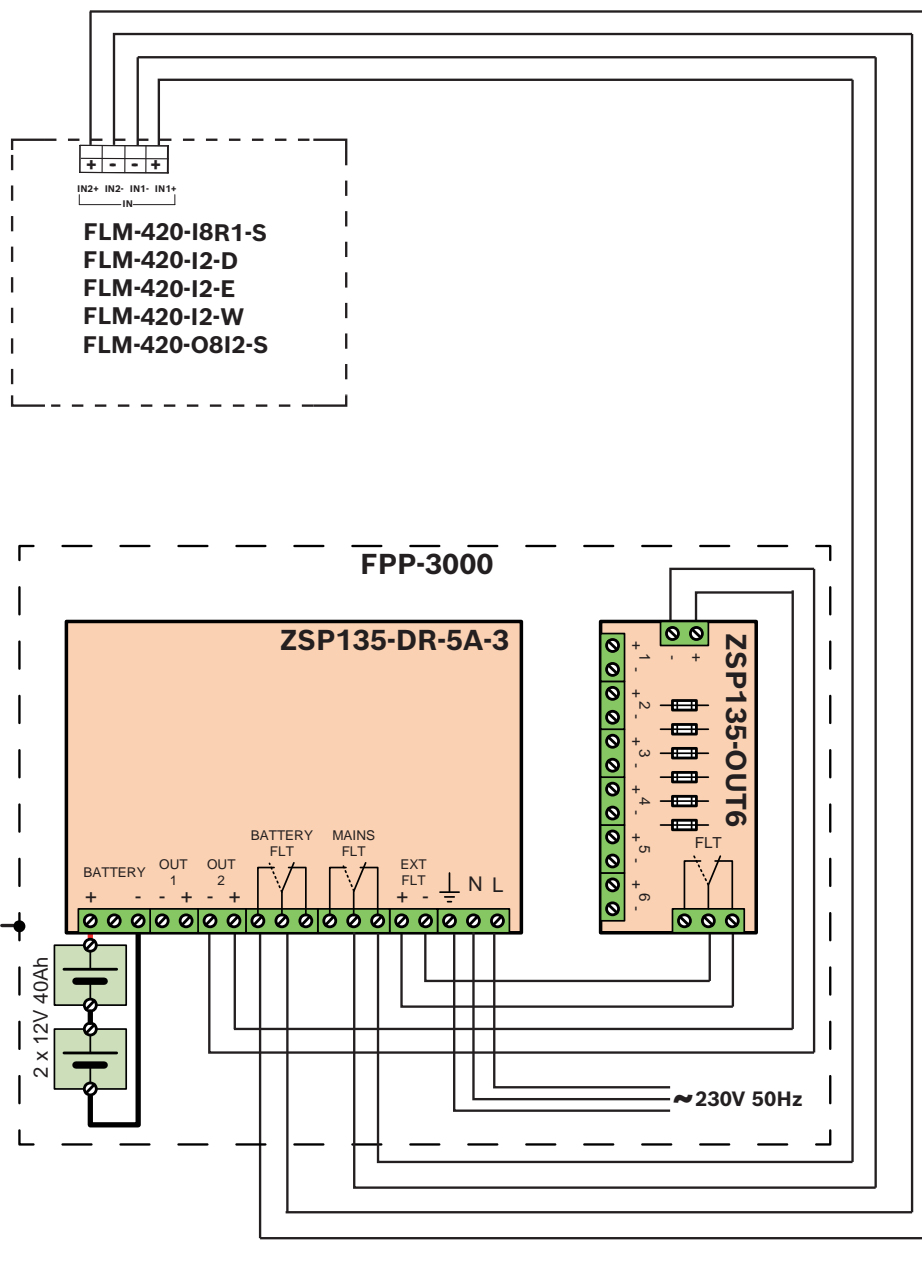
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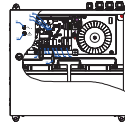
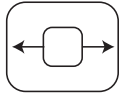


## 2.2 FPP-3000 Power supply (ZSP135-DR-5A-3/ZSP135-OUT6)

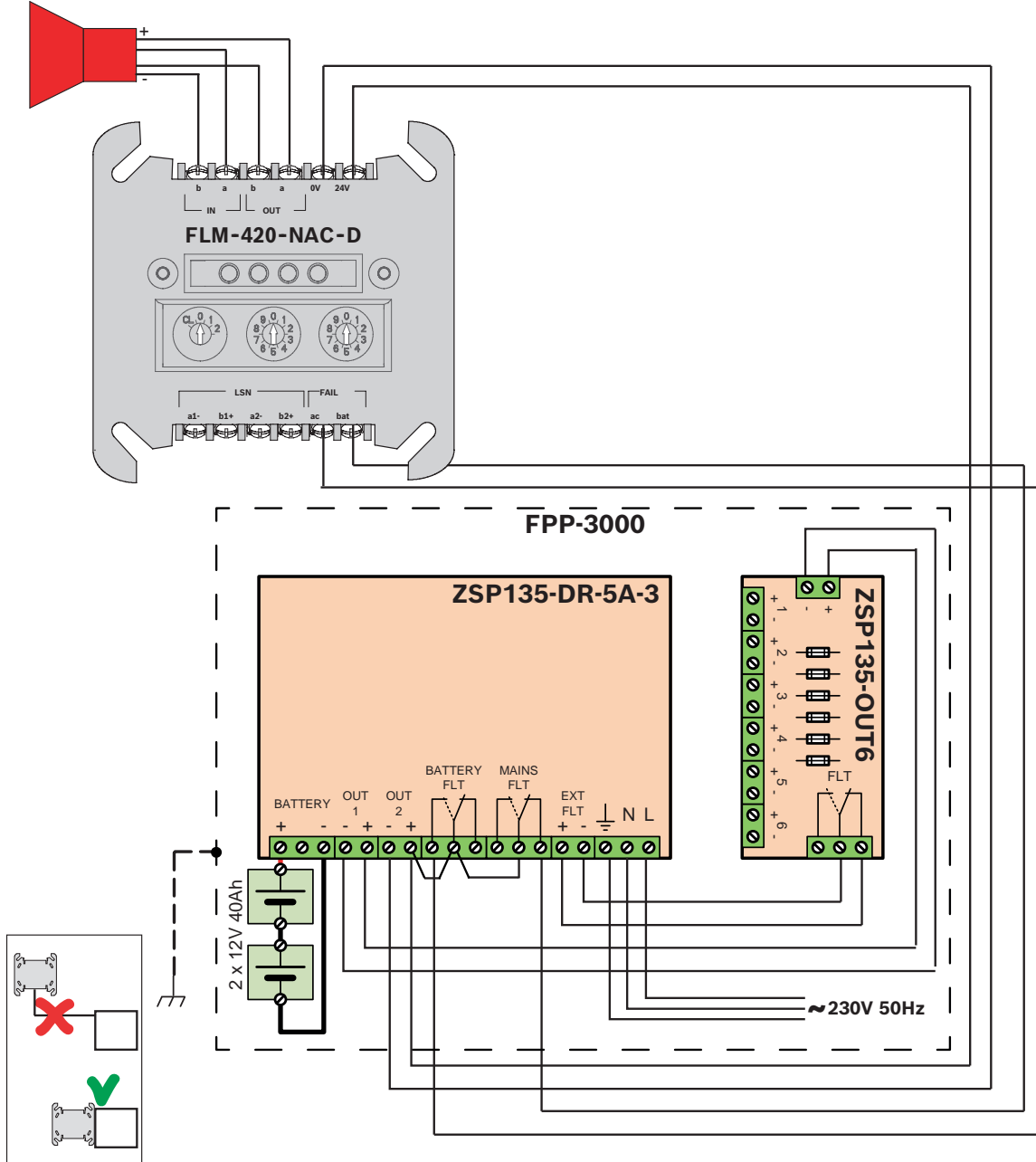


ZSP135-DR-5A-3  
ZSP135-OUT6  
FPP-3000

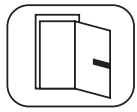




ZSP135-DR-5A-3  
ZSP135-OUT6  
FPP-3000

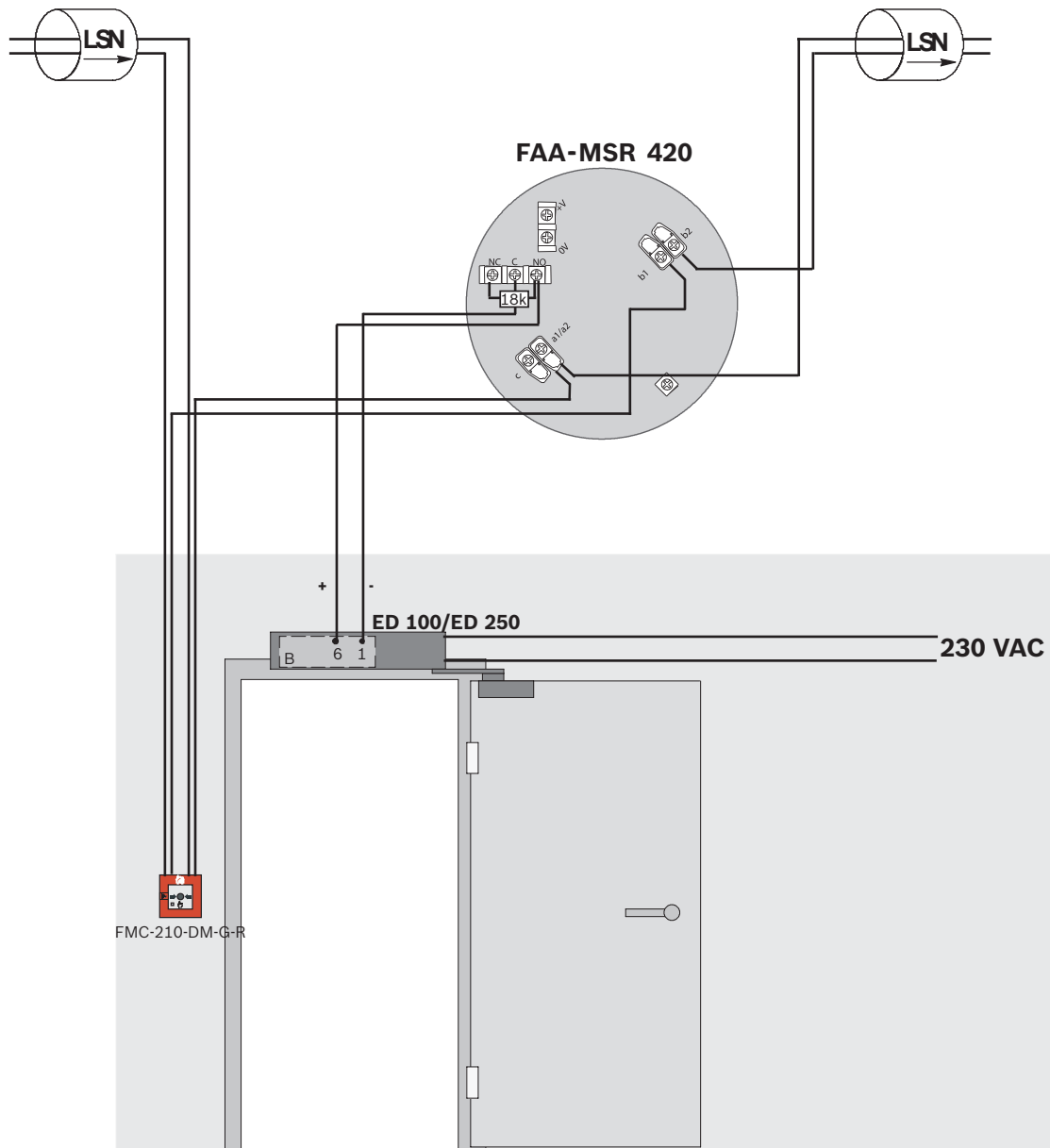


### 2.3 DIBT



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

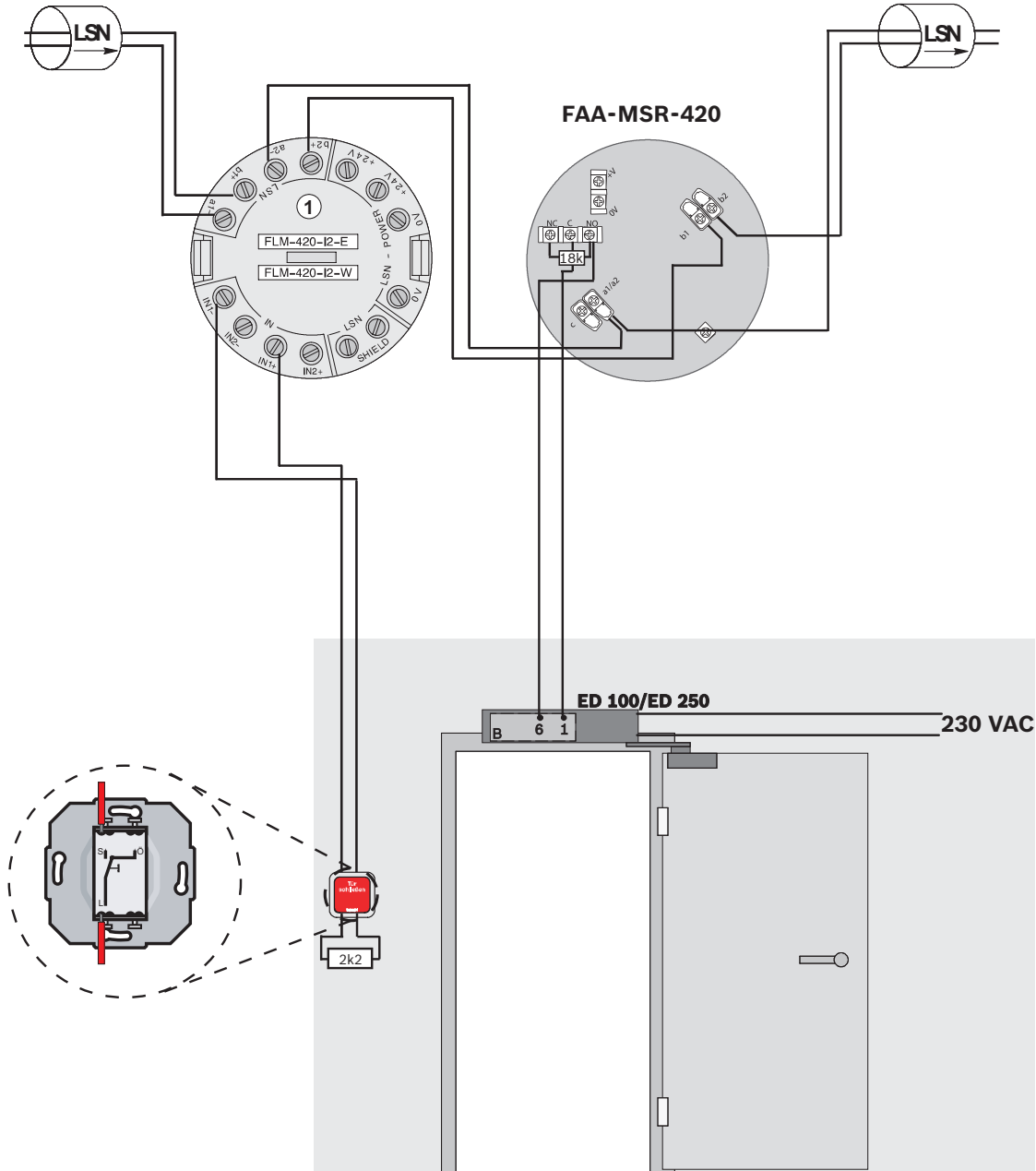
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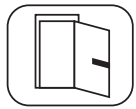




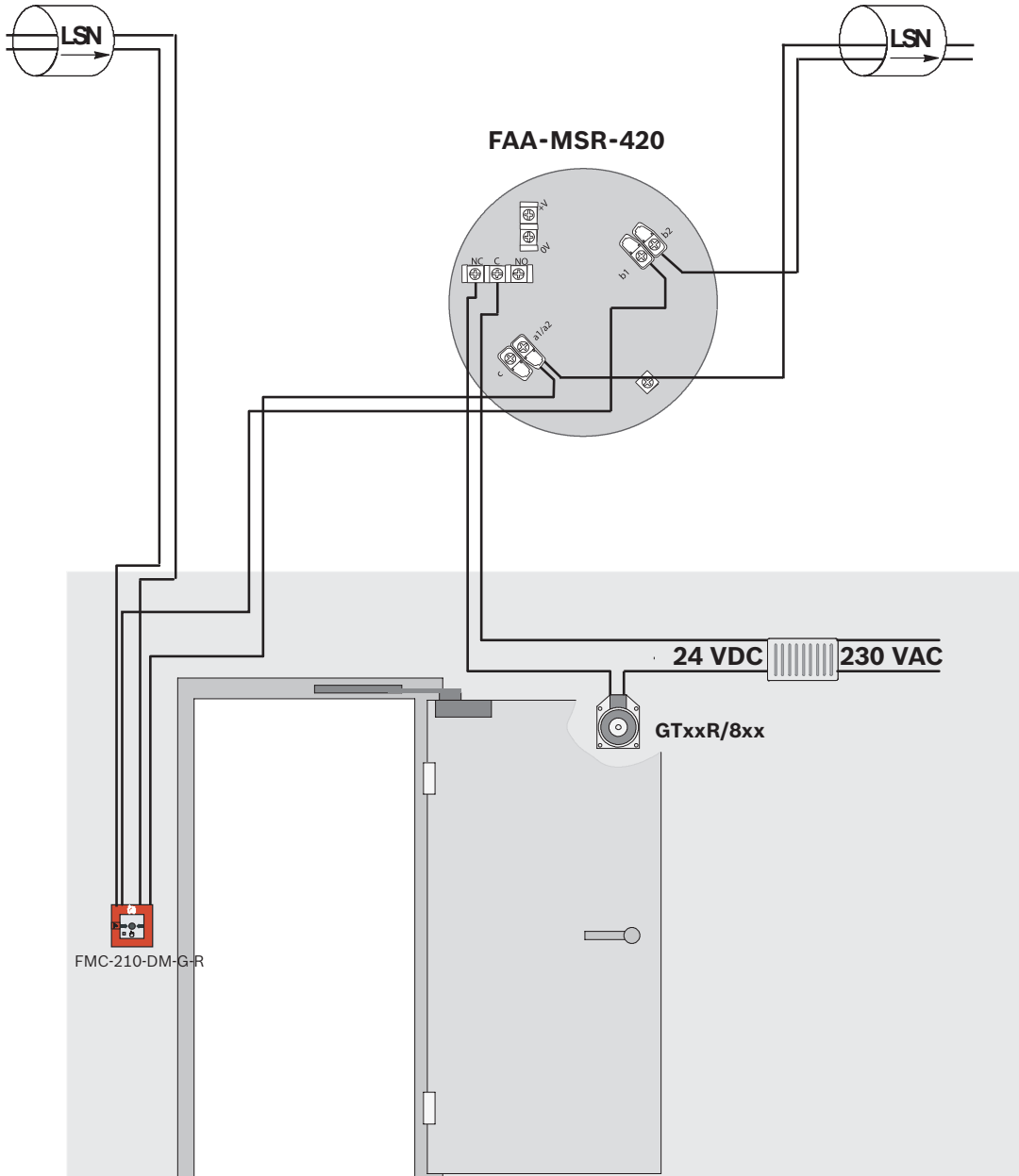
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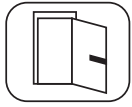
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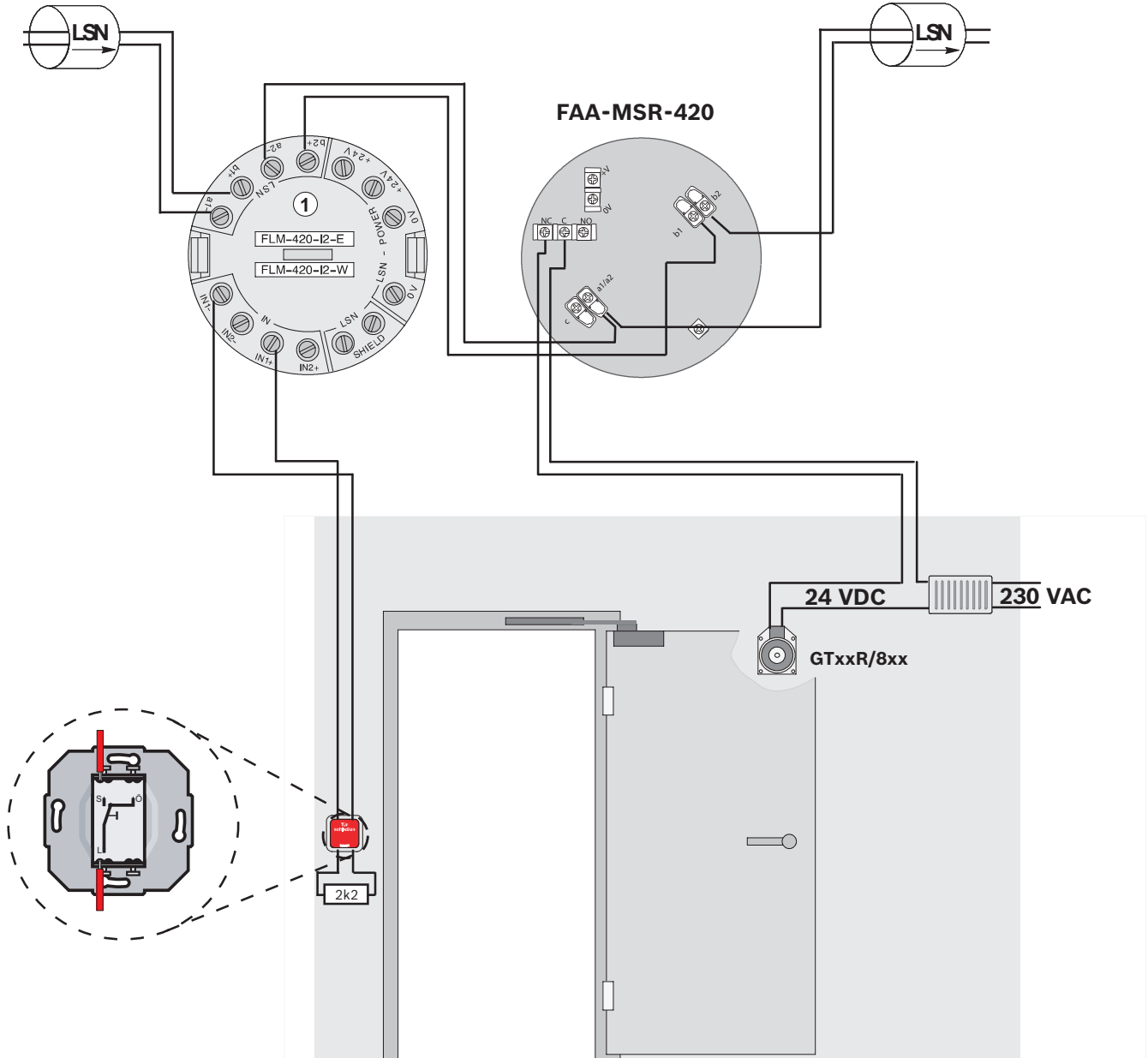


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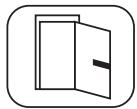




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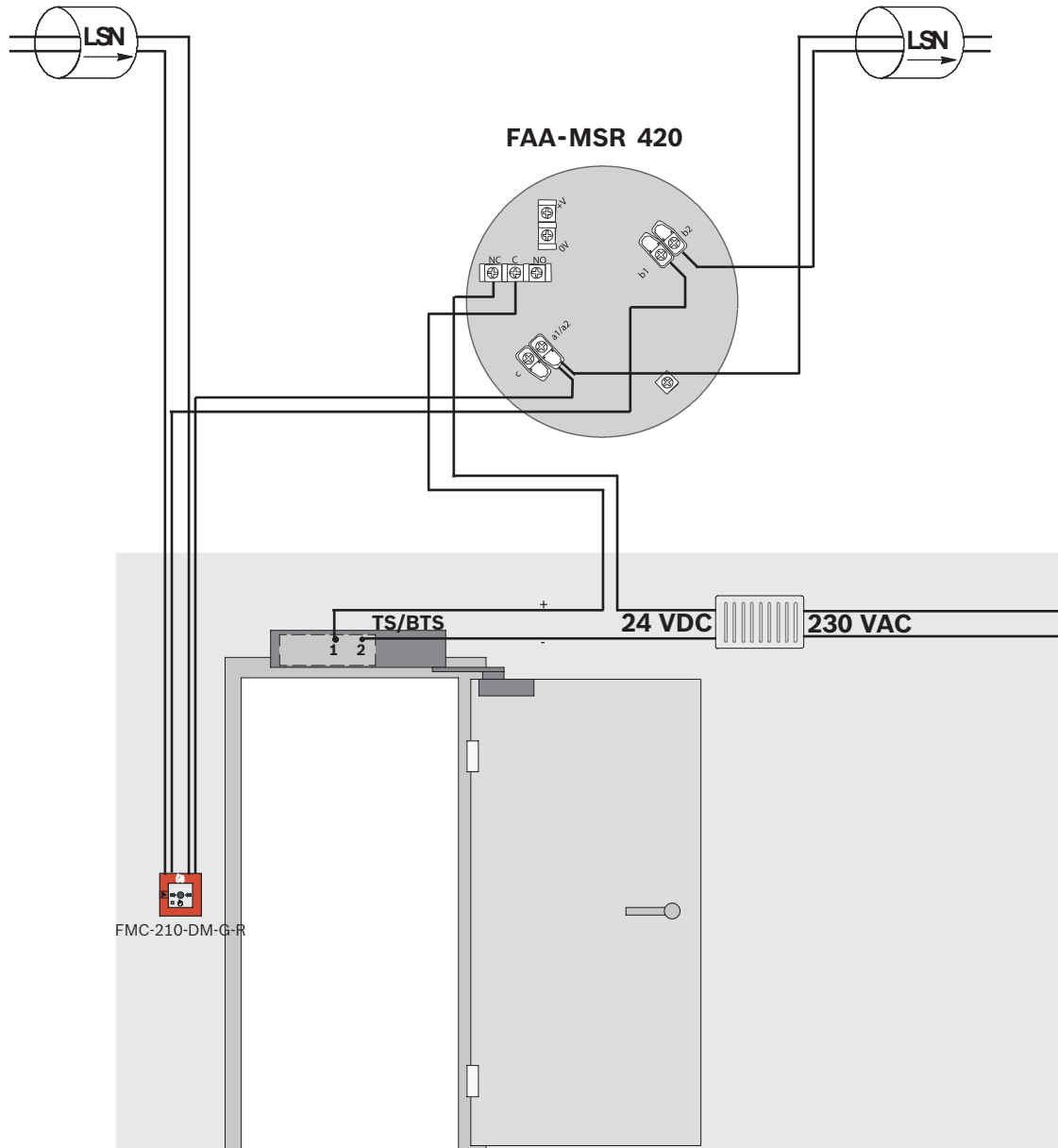






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 TS 93 EMF  
 TS 93 GSR  
 BTS 80 EMB  
 BTS 80 FLB

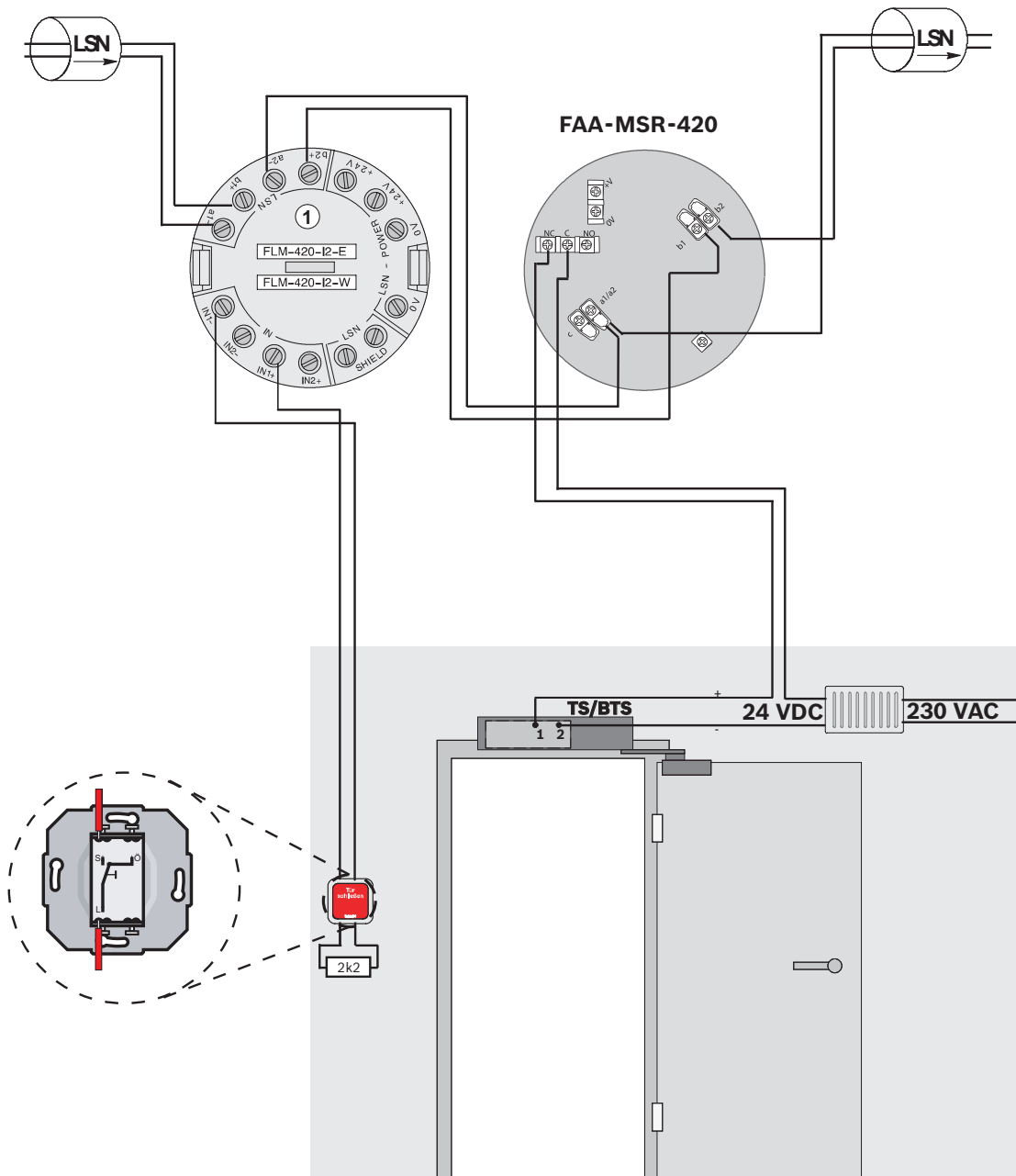
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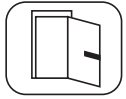




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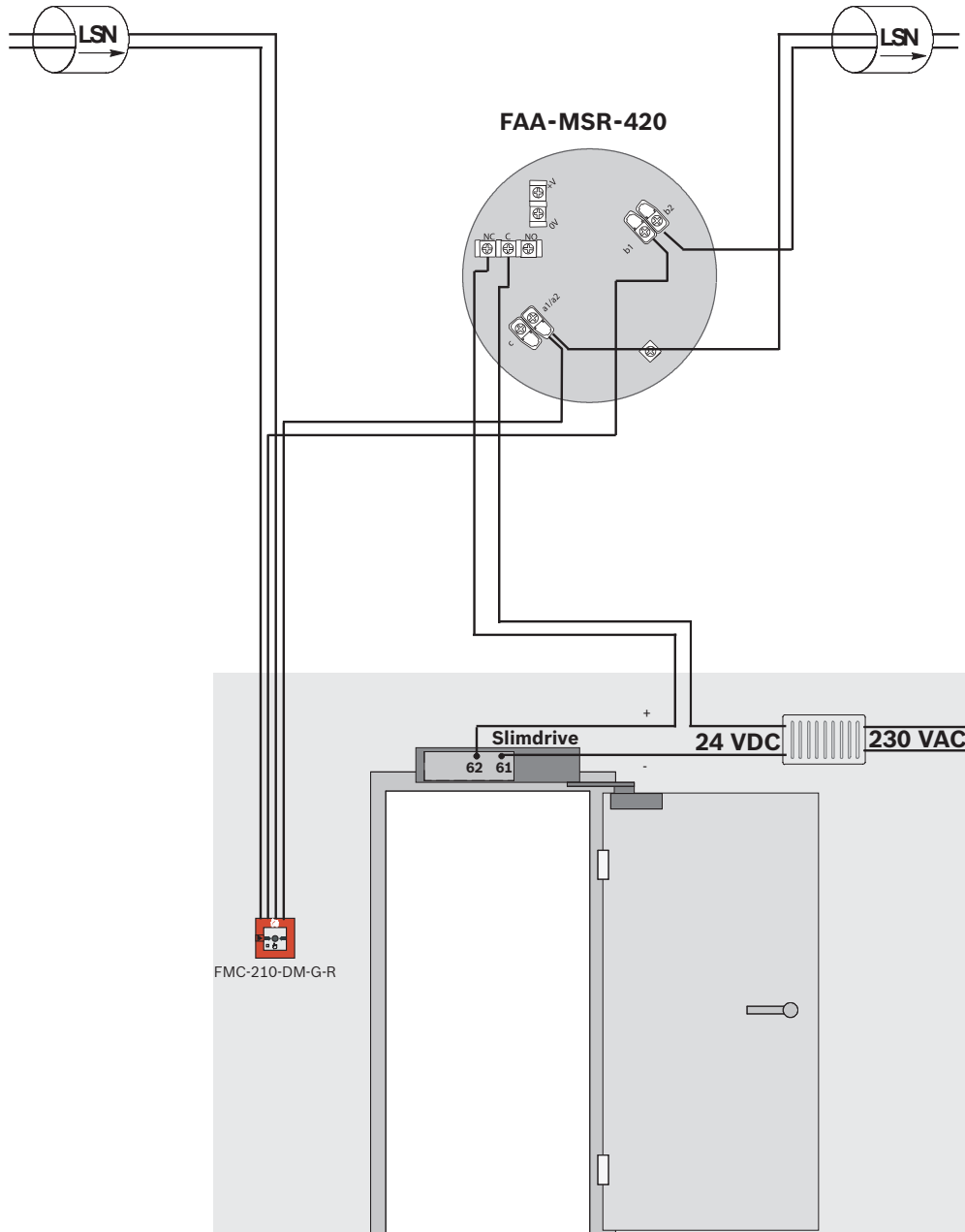
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Slimdrive EMD-F/EMD F-IS

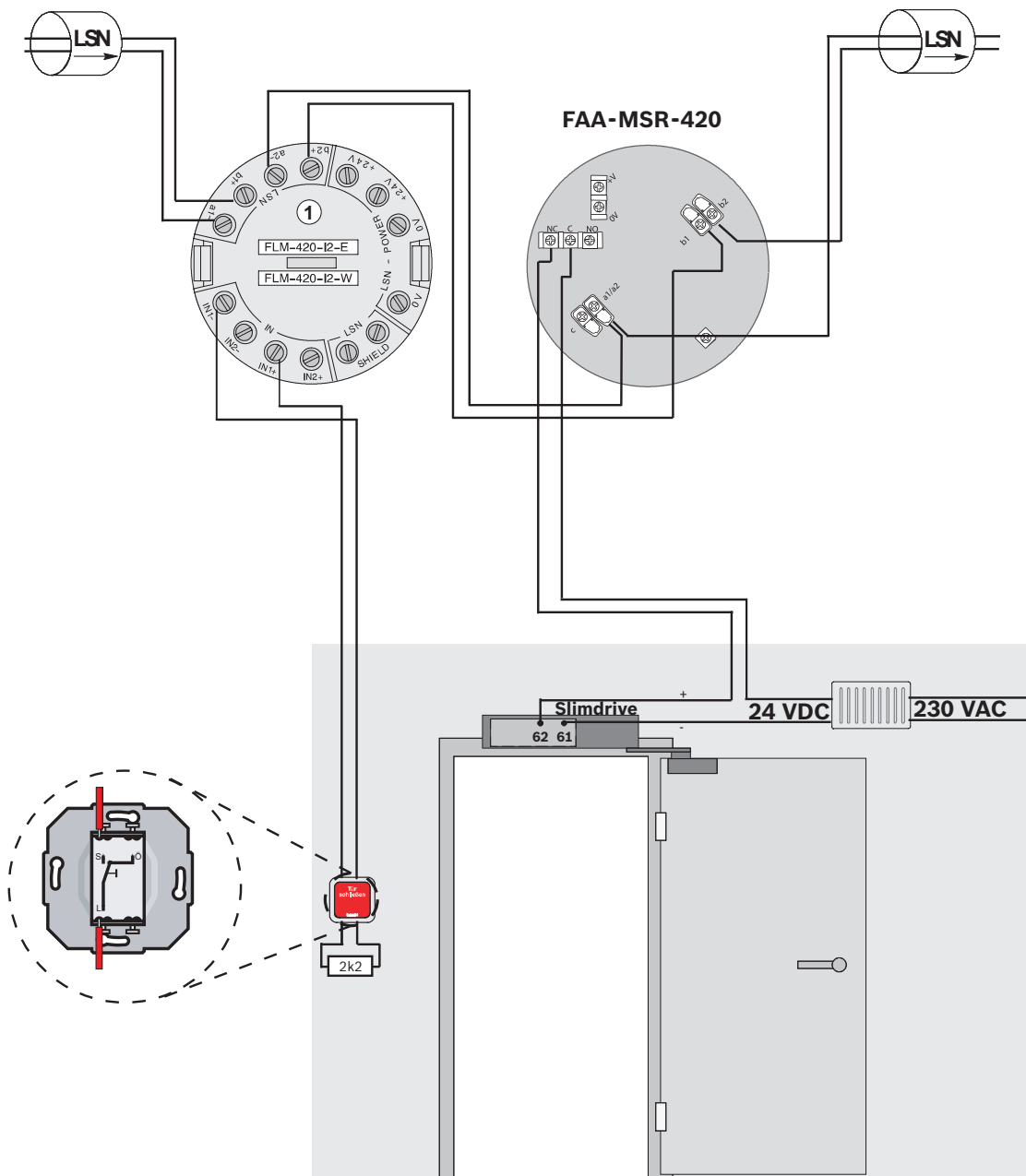
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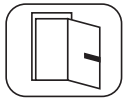




Slimdrive EMD-F/EMD F-IS

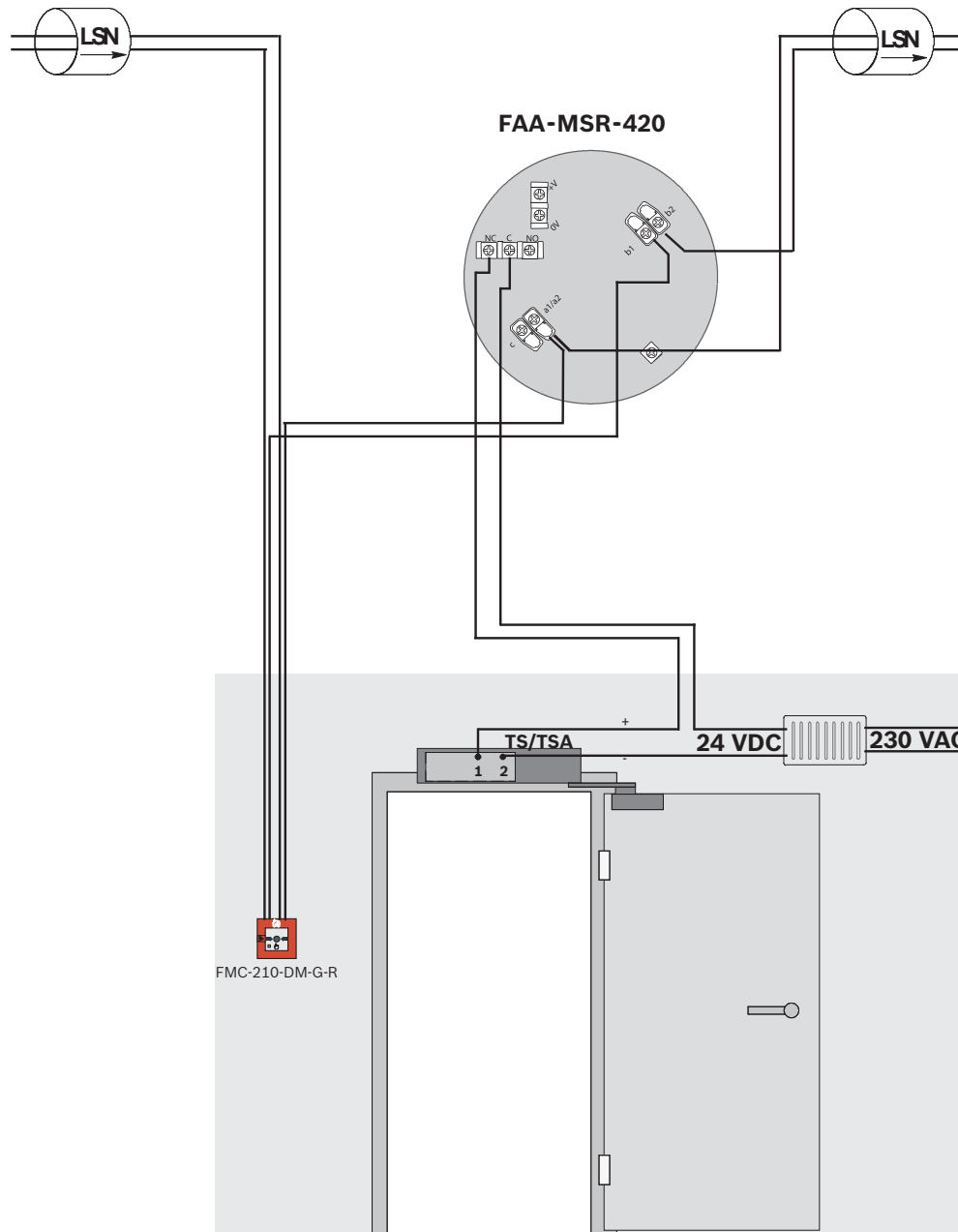
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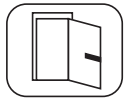




TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

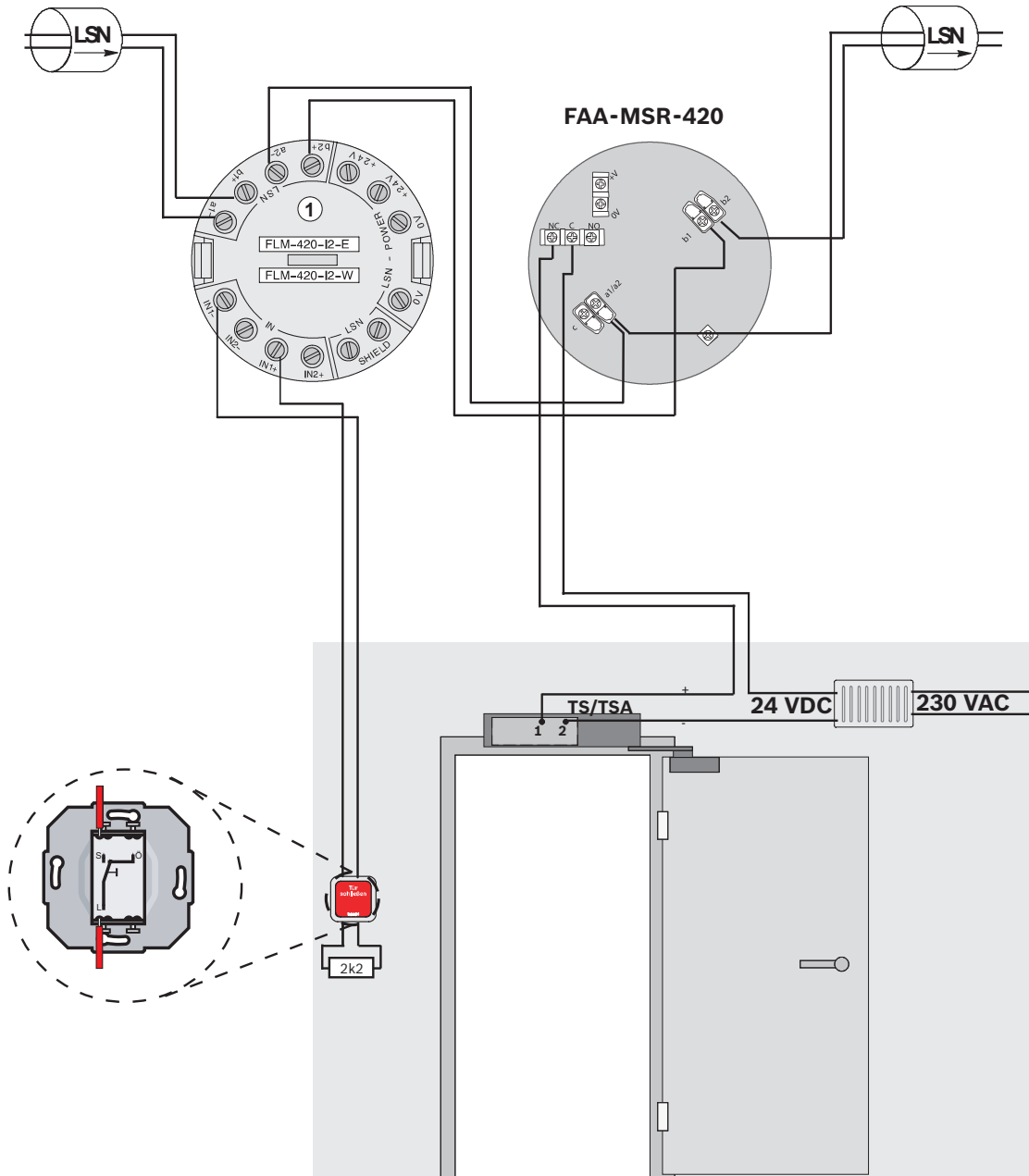
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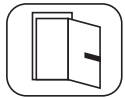




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 TS 550 E  
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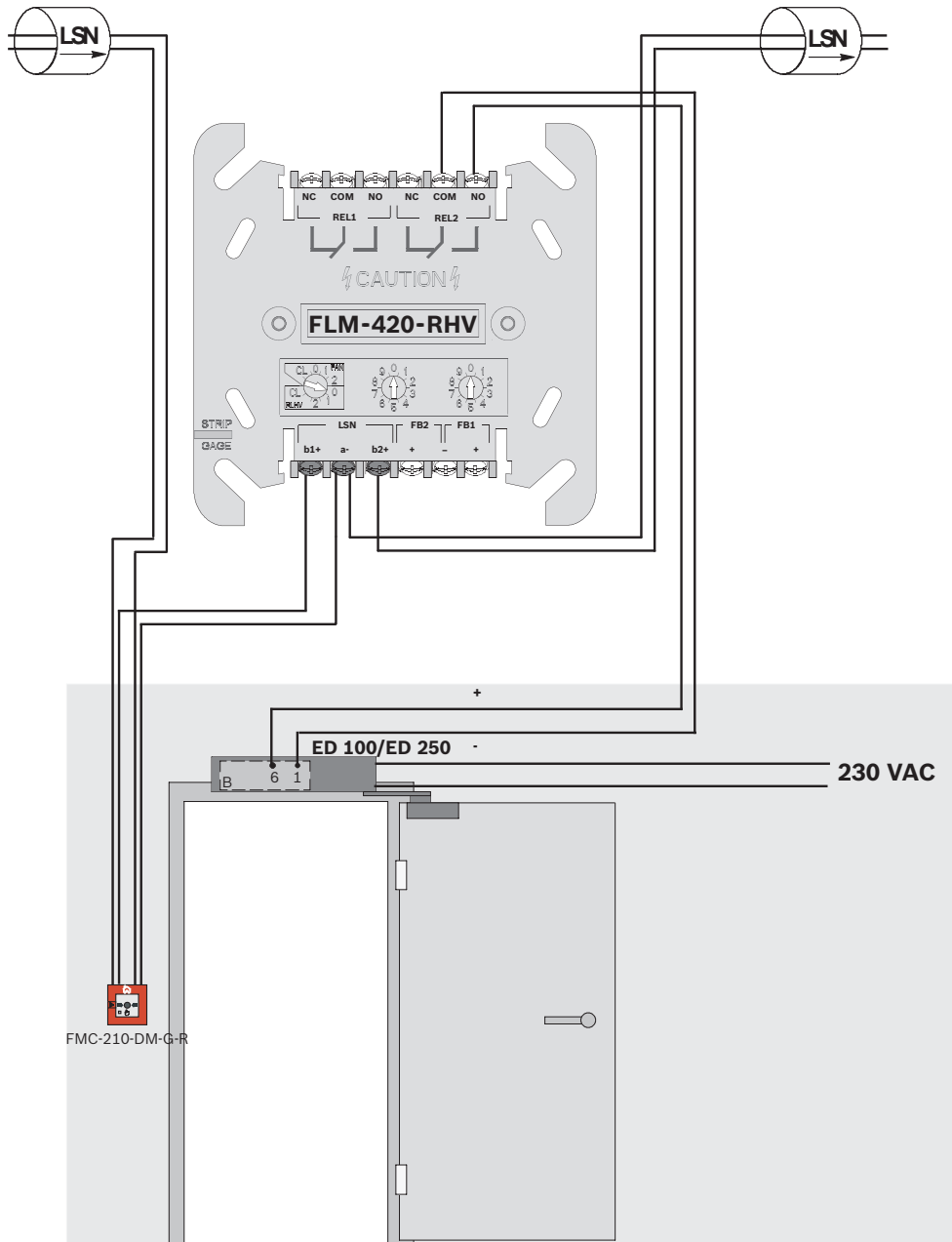
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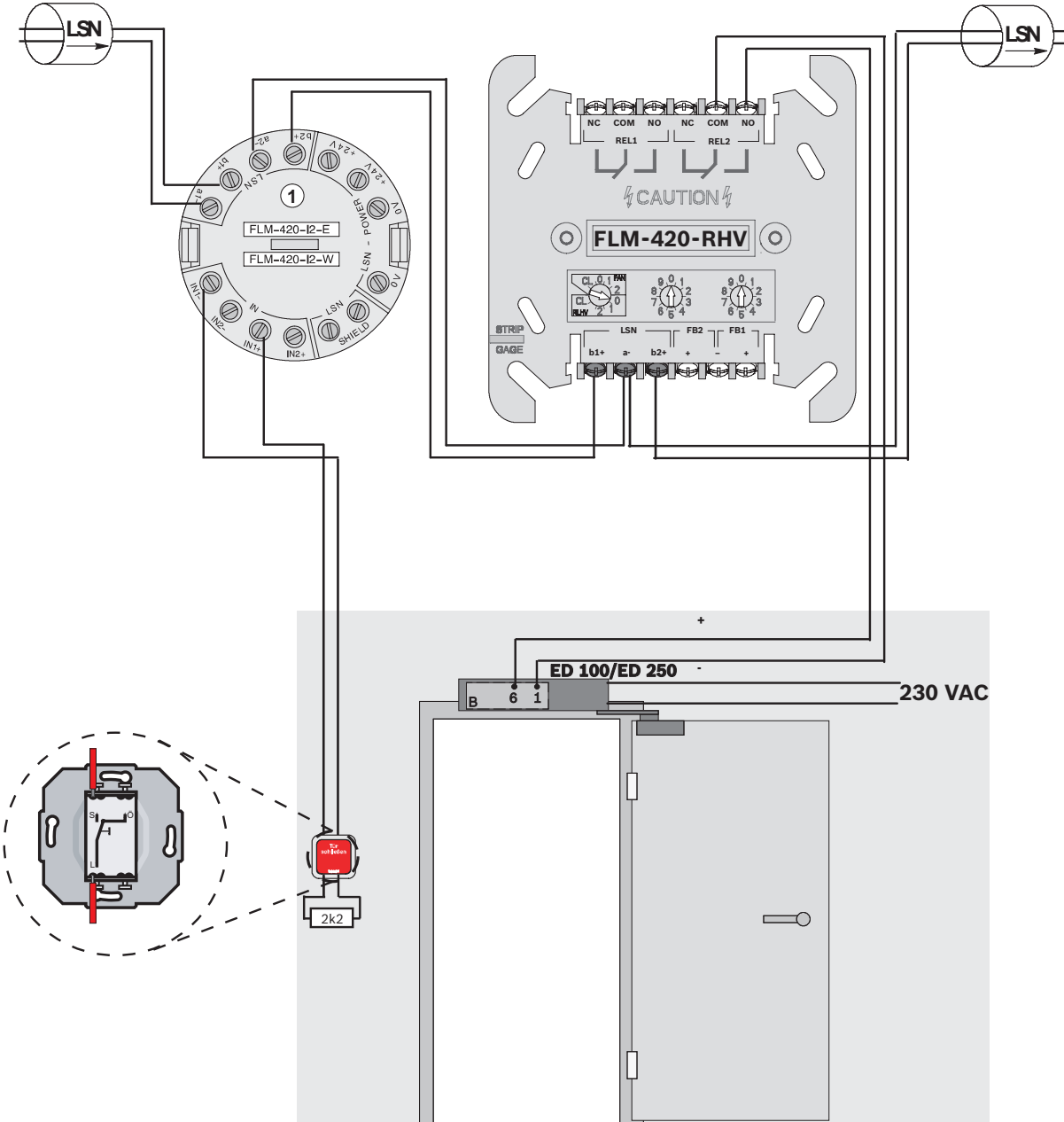
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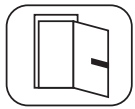


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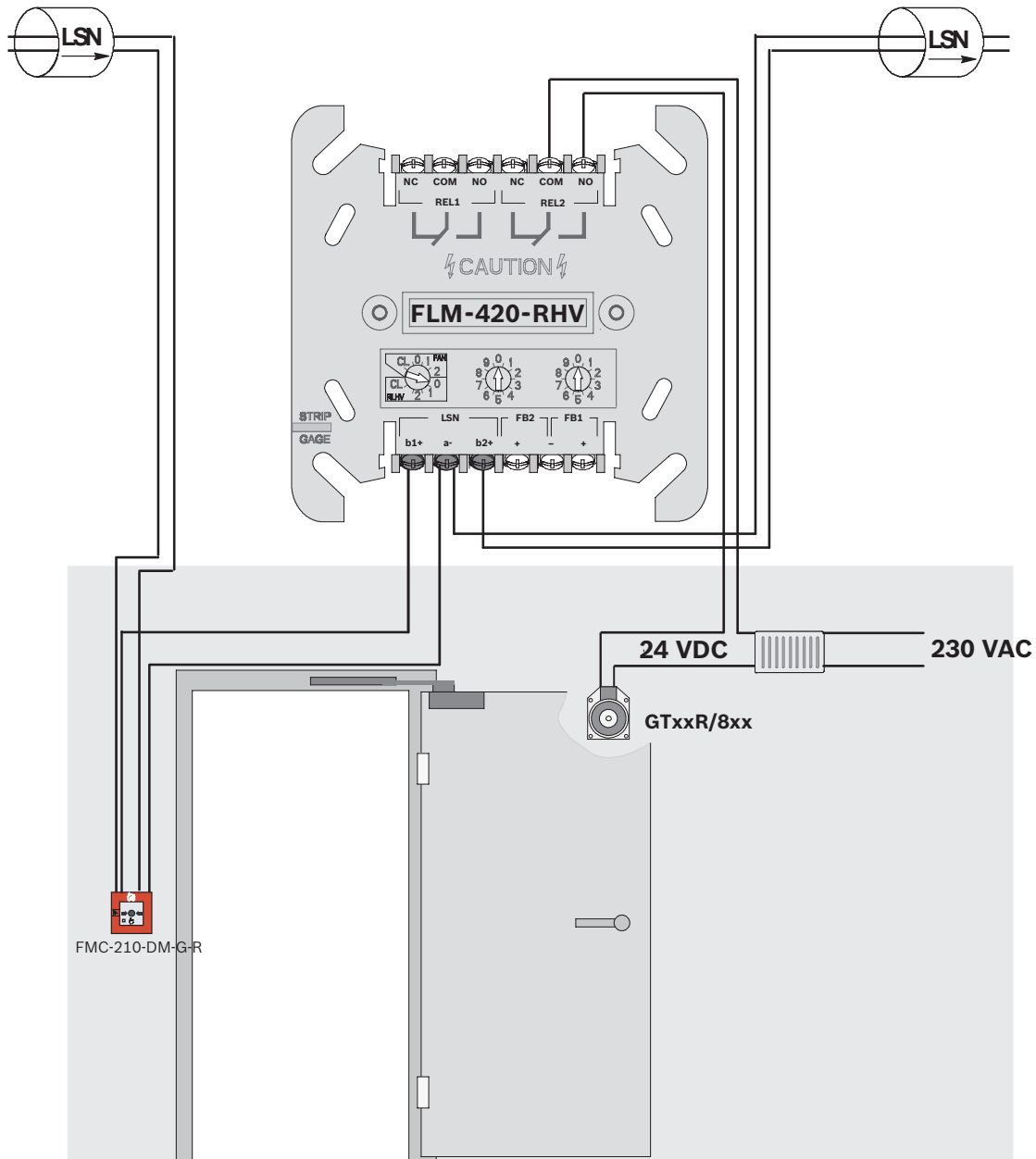
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DIBT

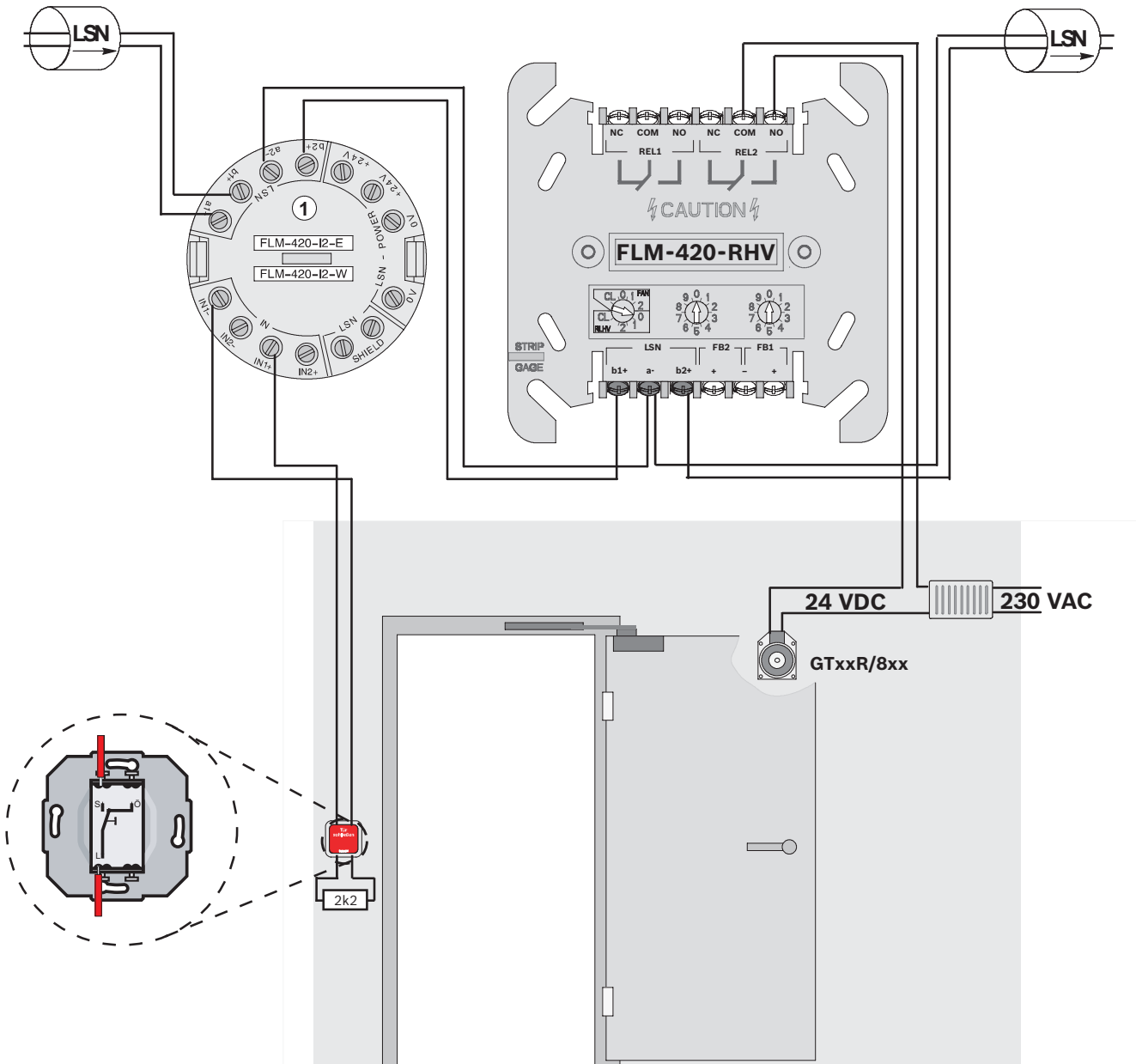


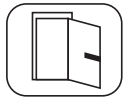


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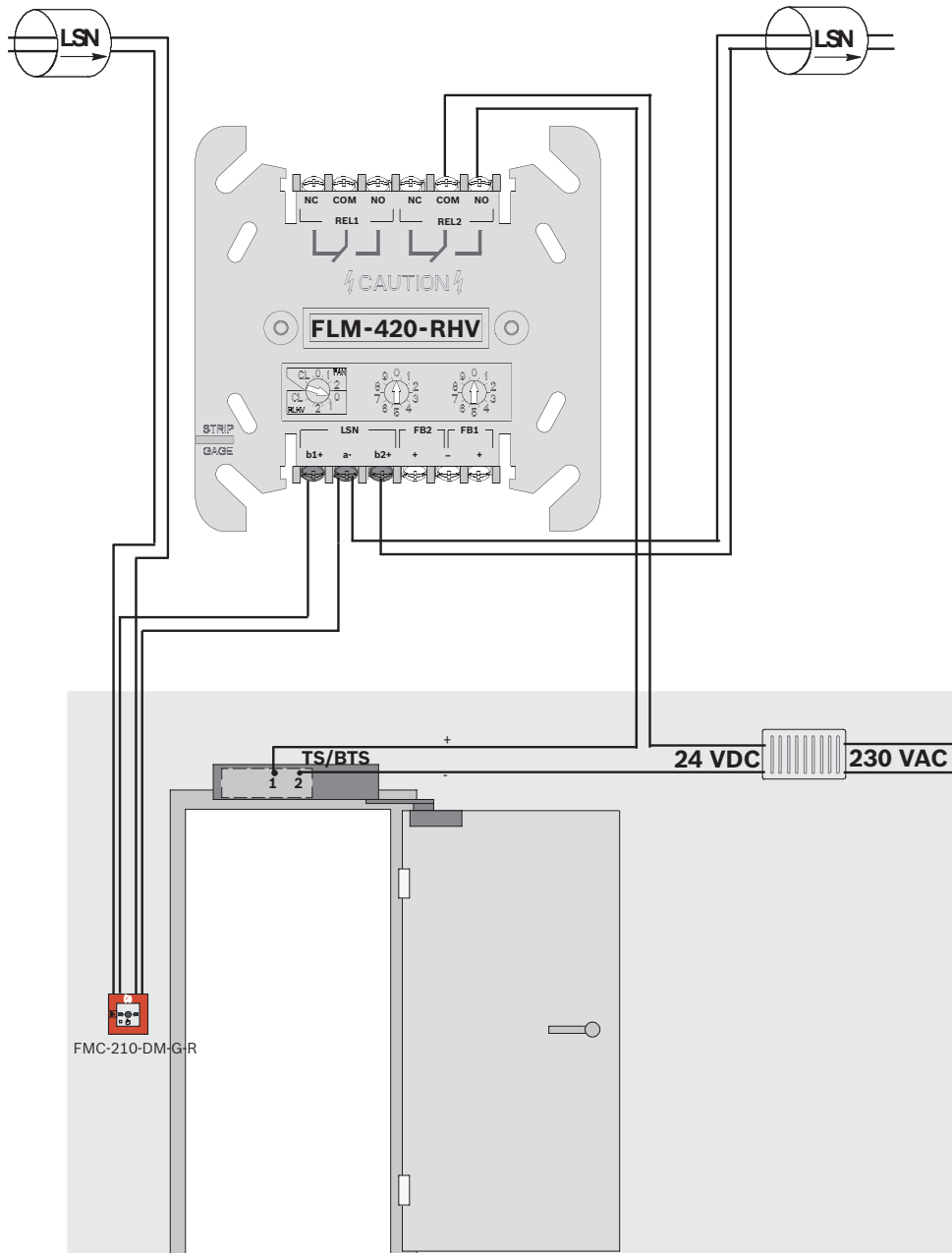
DIBT





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

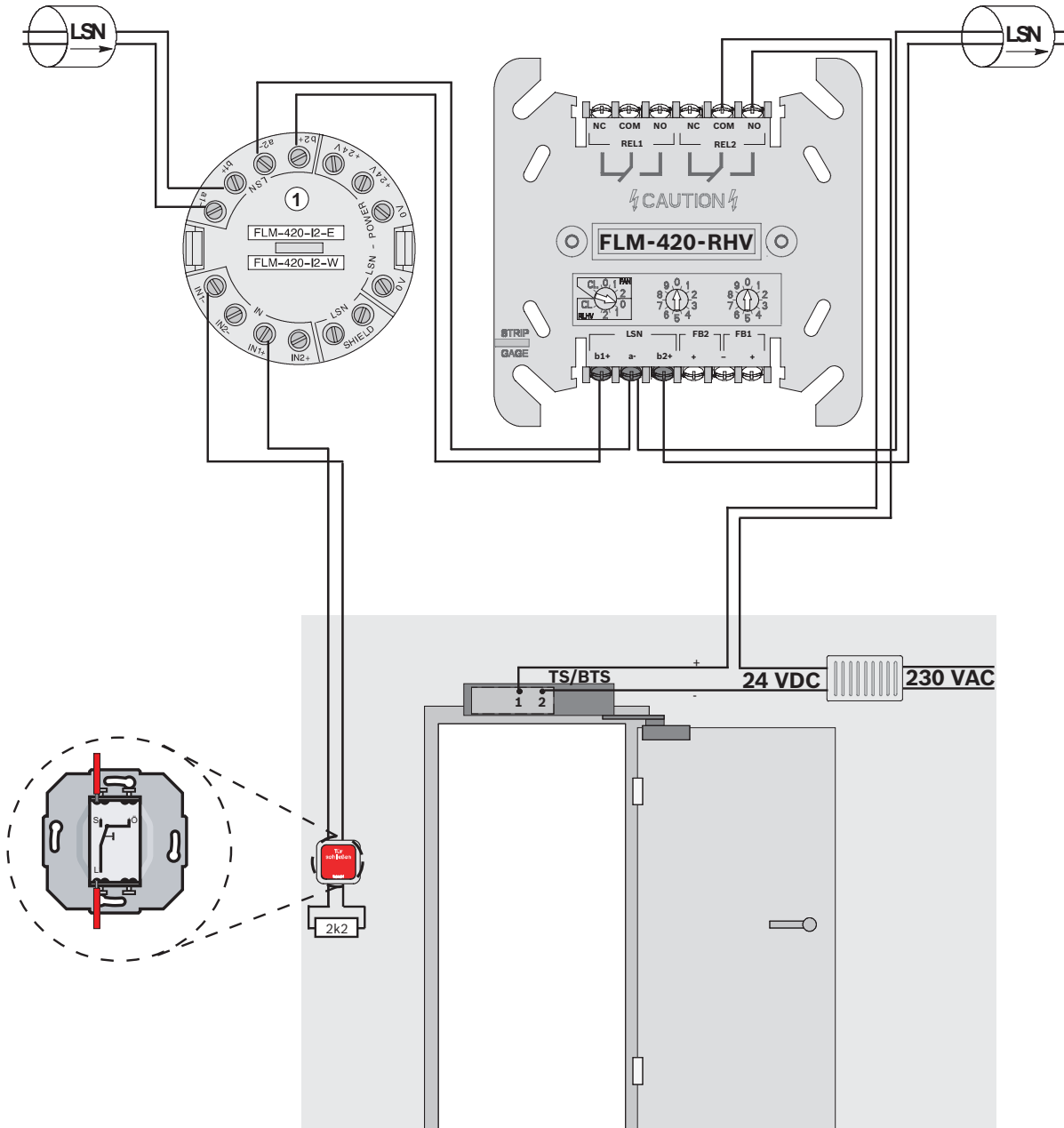
DIBT





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

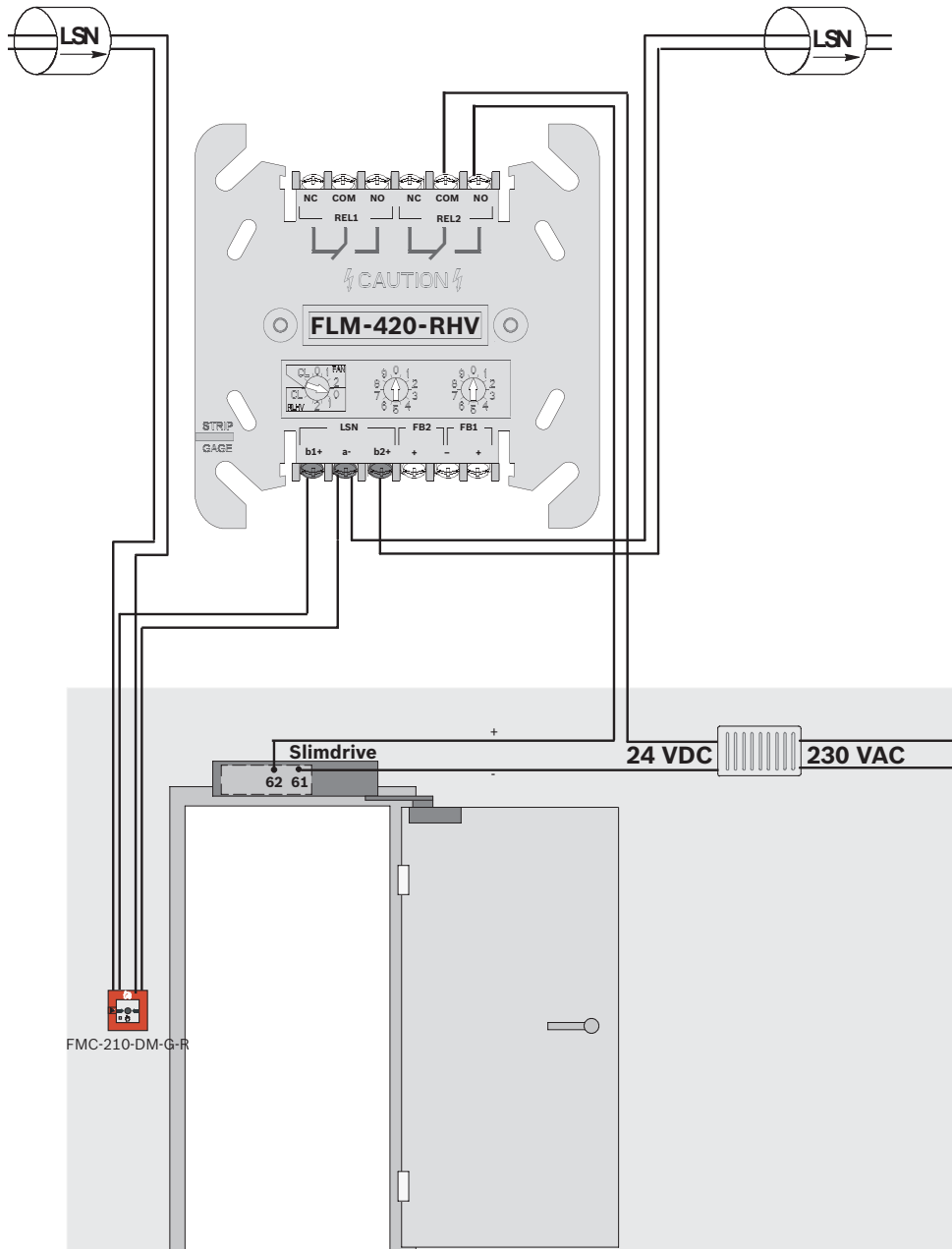
DIBT

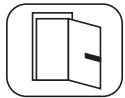




Slimdrive EMD-F/EMD F-IS

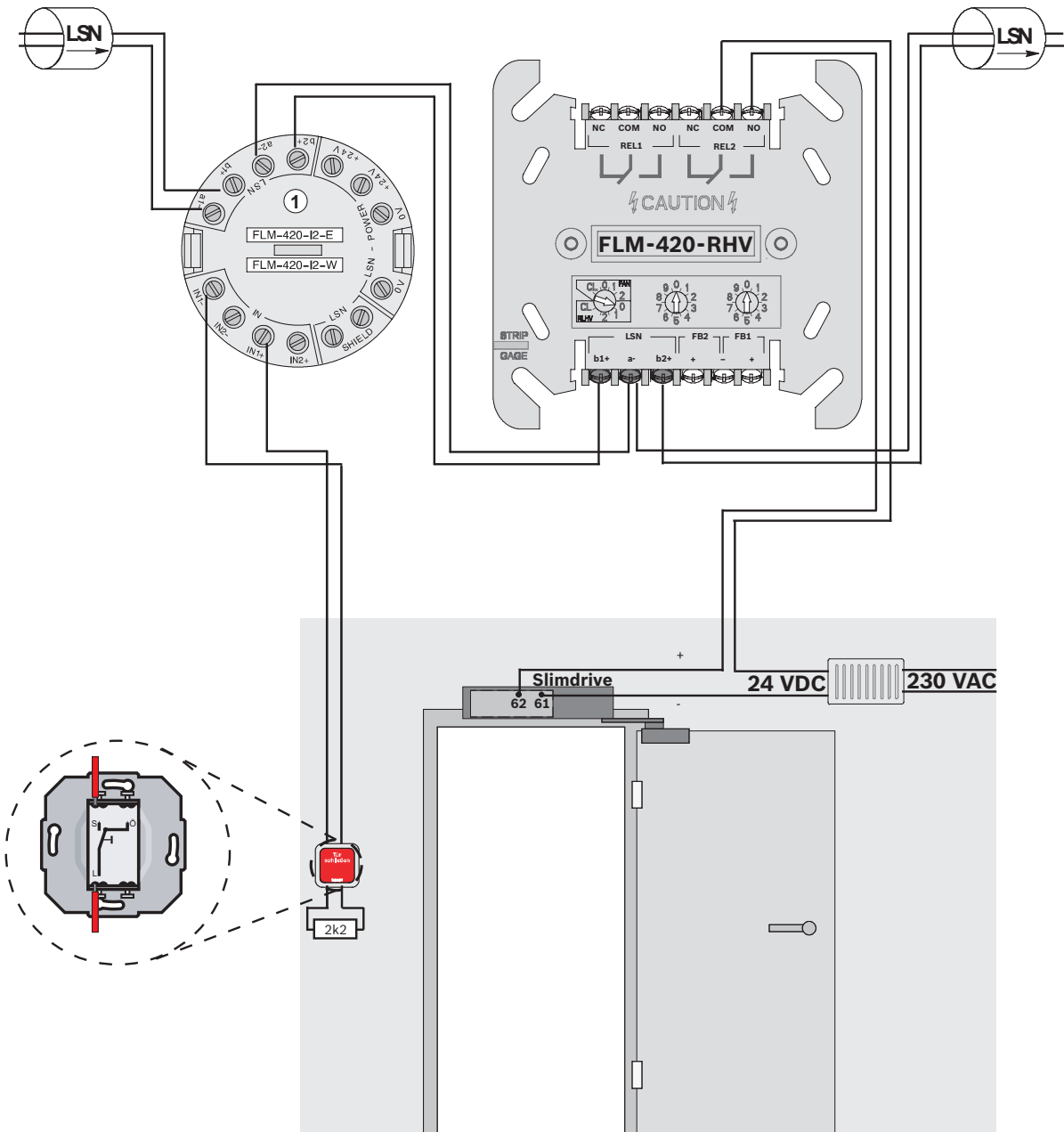
DIBT

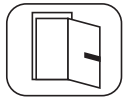




Slimdrive EMD-F/EMD F-IS

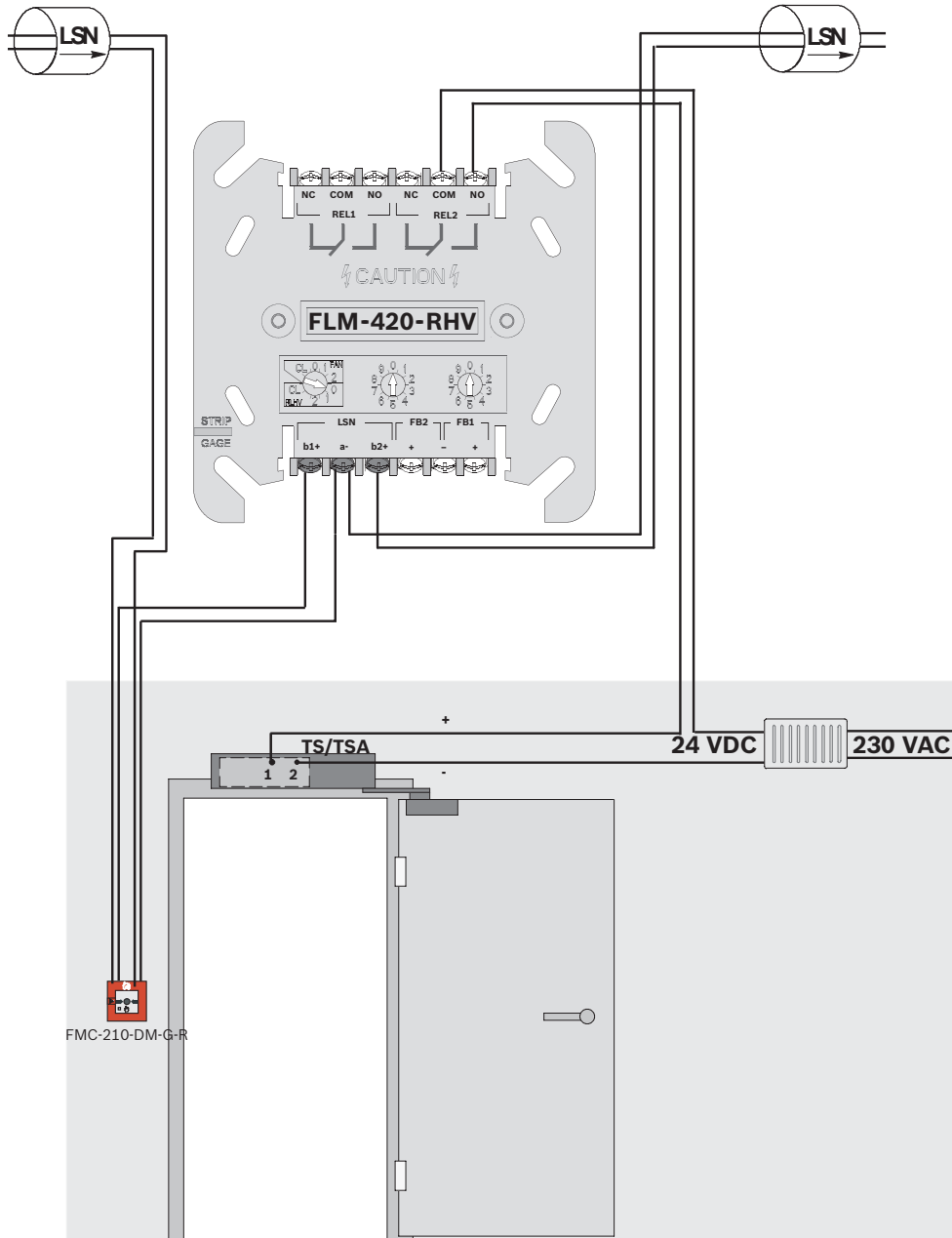
DIBT





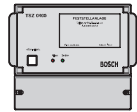
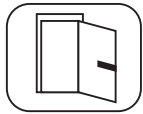
TS 4000 E/E-IS/EFS  
 TS 5000 E/E-IS/E-ISM  
 TS 550 E  
 TSA 160 NT F/F-IS/F-IS/TS

DIBT



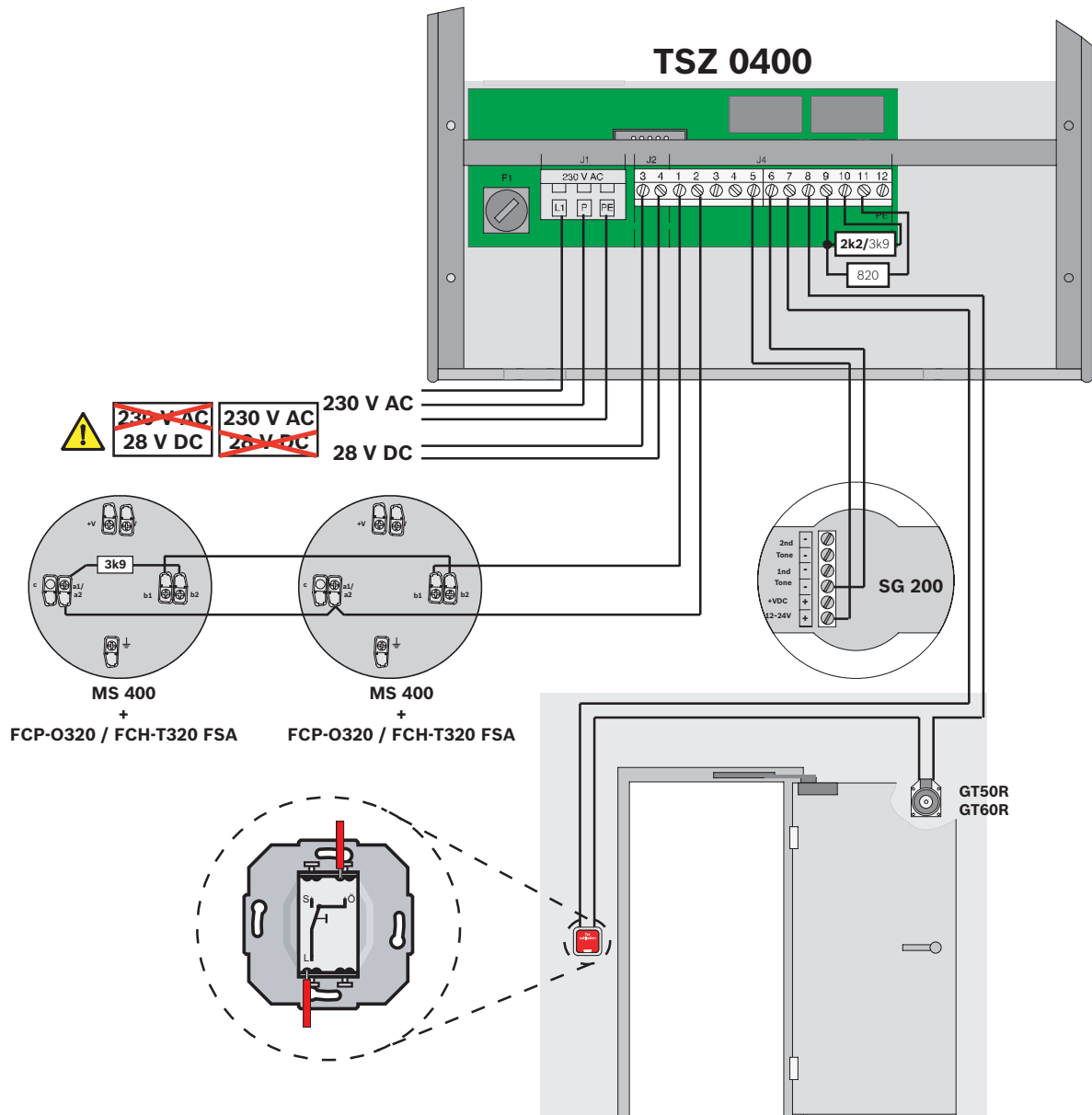


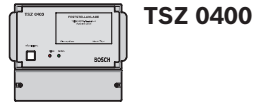




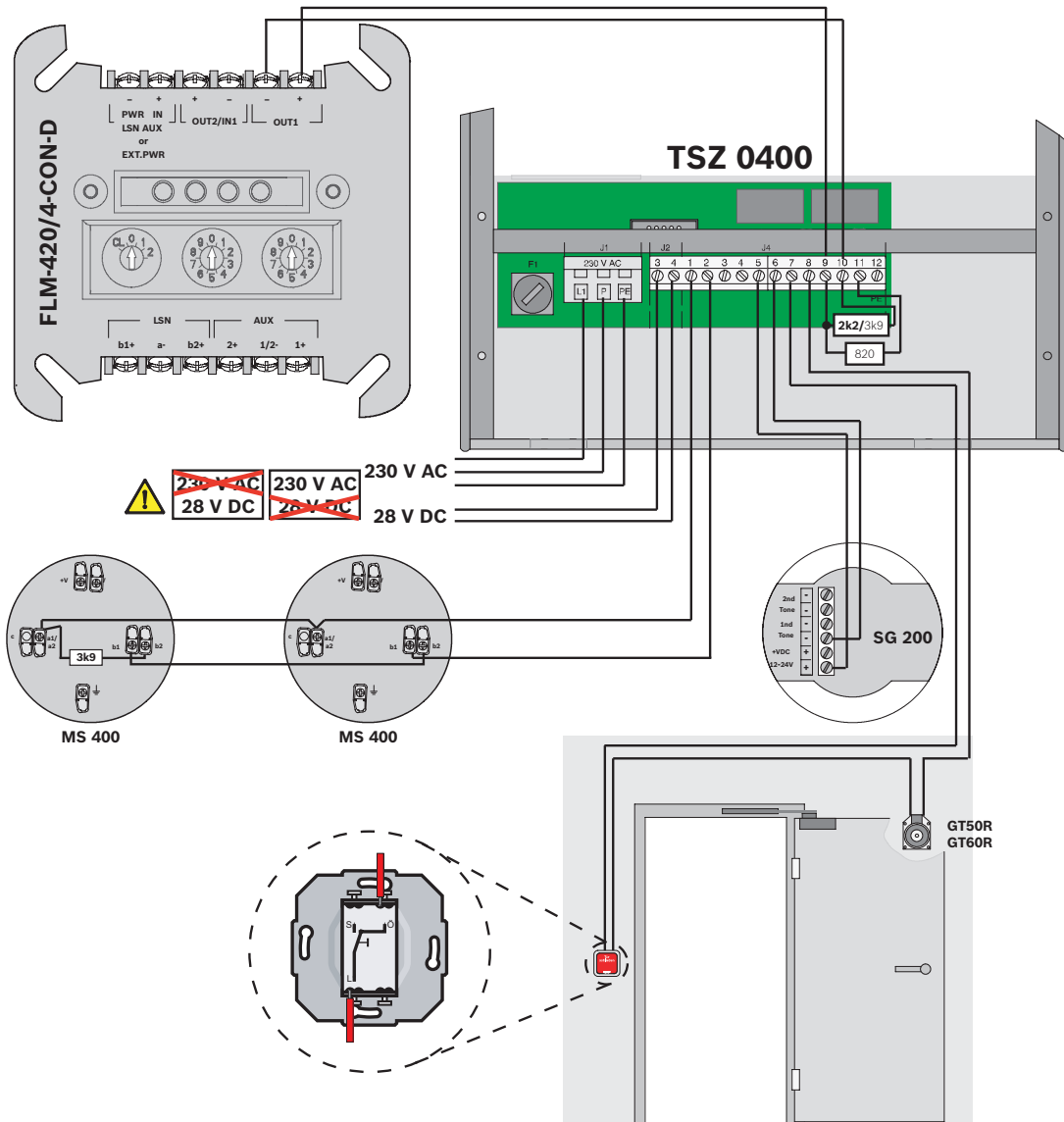
TSZ 0400

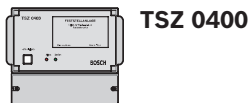
DIBT



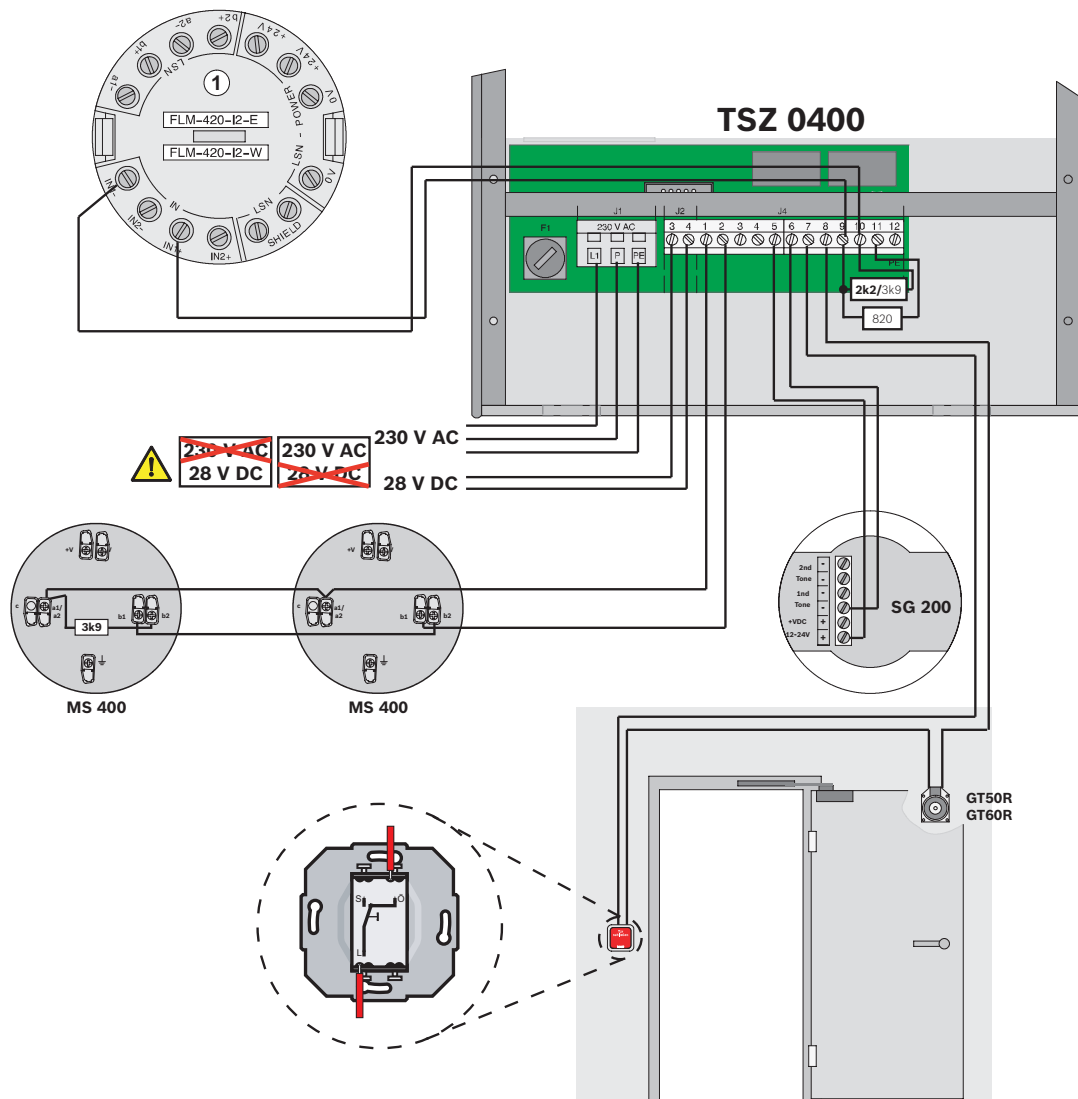


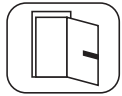
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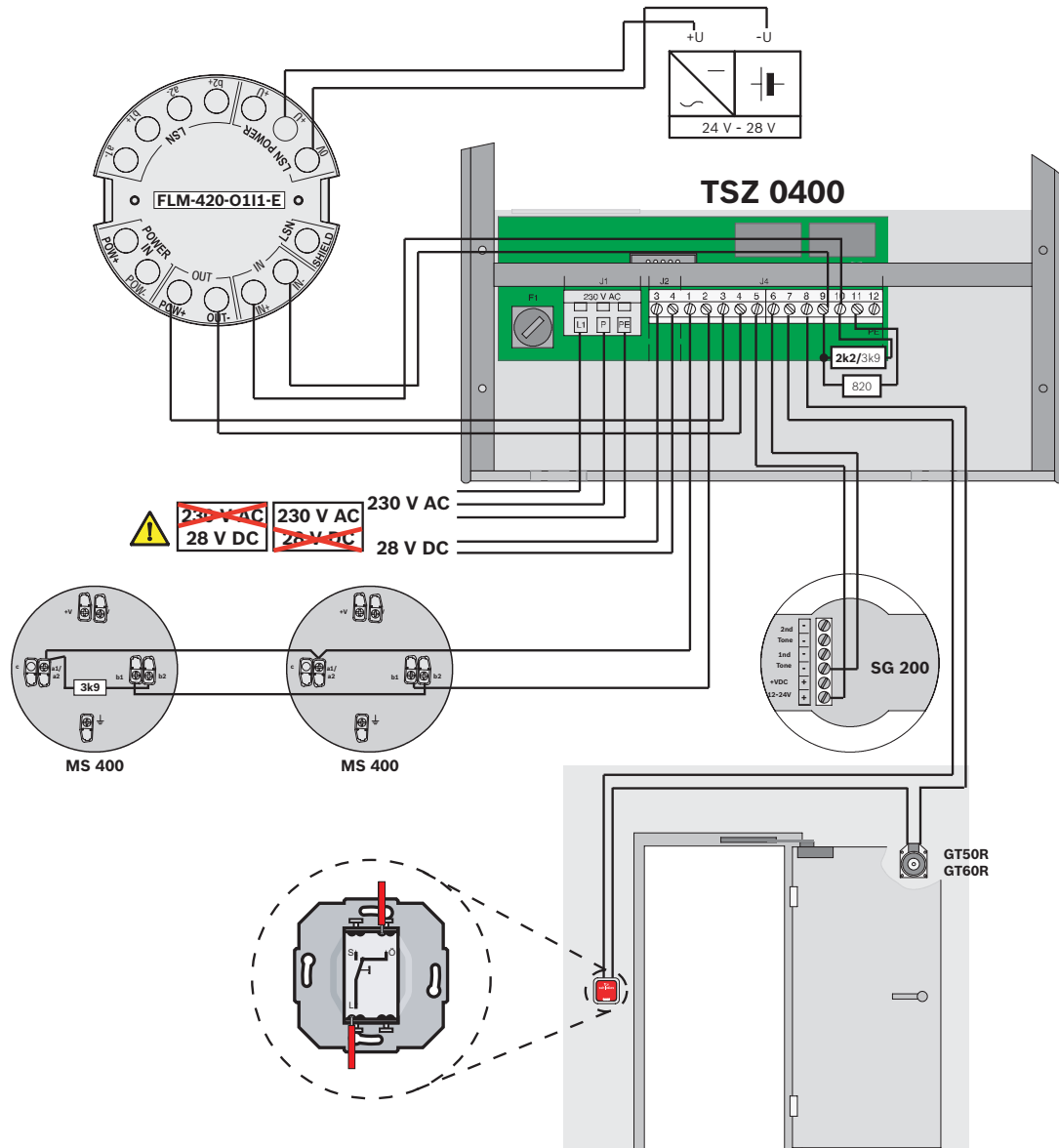


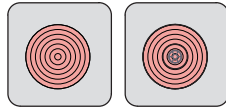
**DIBT**



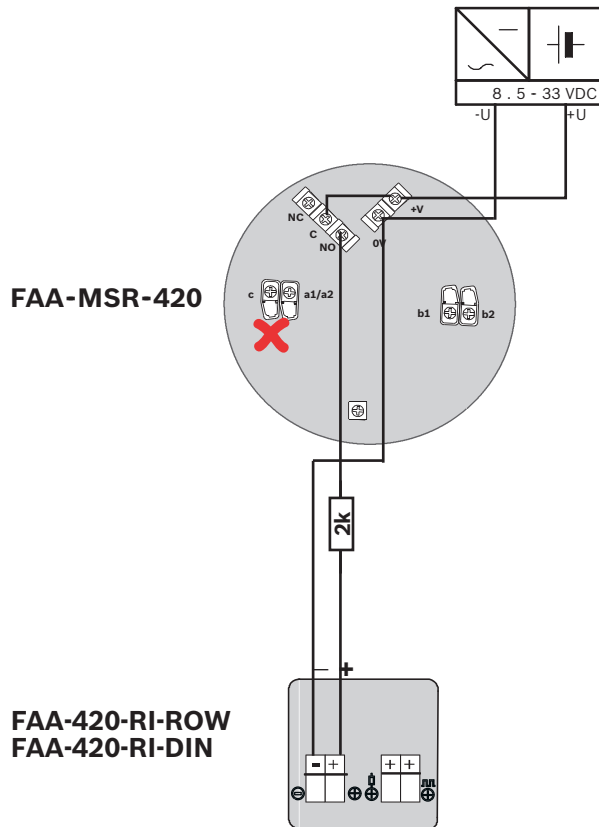
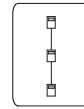


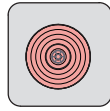
DIBT



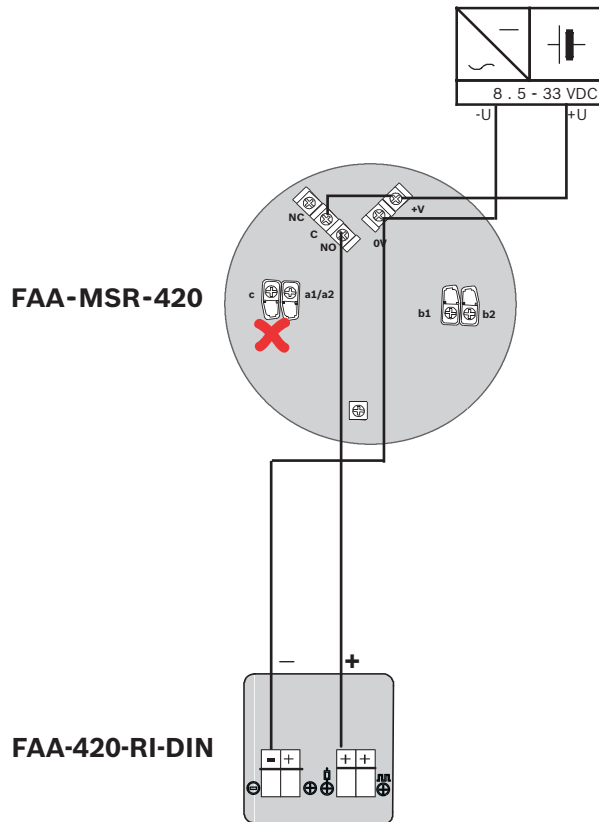
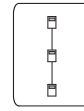


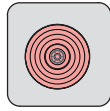
**FAA-420-RI-ROW**  
**FAA-420-RI-DIN**



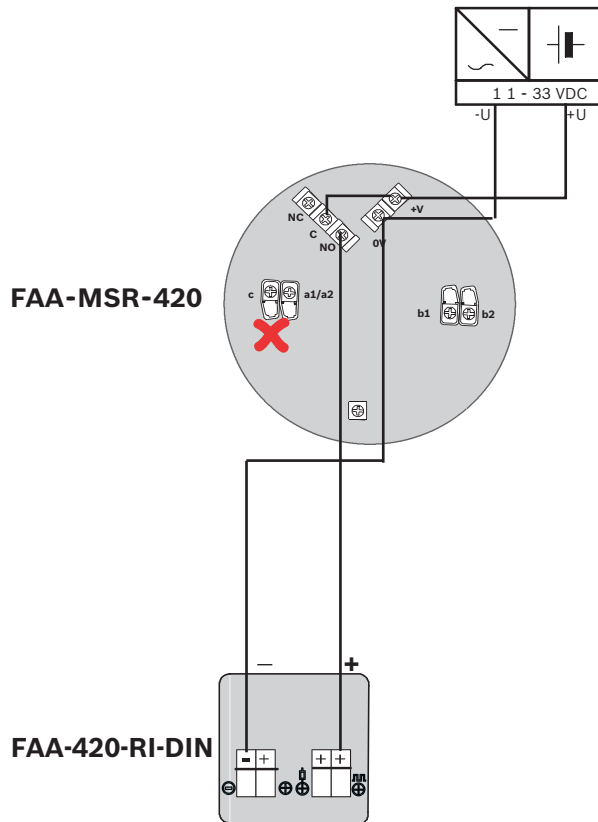
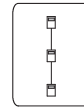


**FAA-420-RI-DIN**





**FAA-420-RI-DIN**



## 2.4

### Functional Modules



*BCM-000-B, pagina 43*

*CZM 0004 A, pagina 45*

*ENO 0000 A/B, pagina 61*

*LSN 0300 A, pagina 68*

*NZM 0002 A, pagina 106*

*RMH 0002 A, pagina 119*

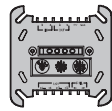
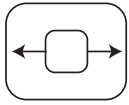
*IOS 0020 A, pagina 120*

*FPE-5000-UGM, pagina 122*

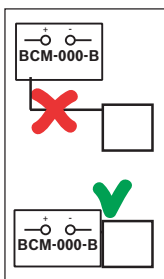
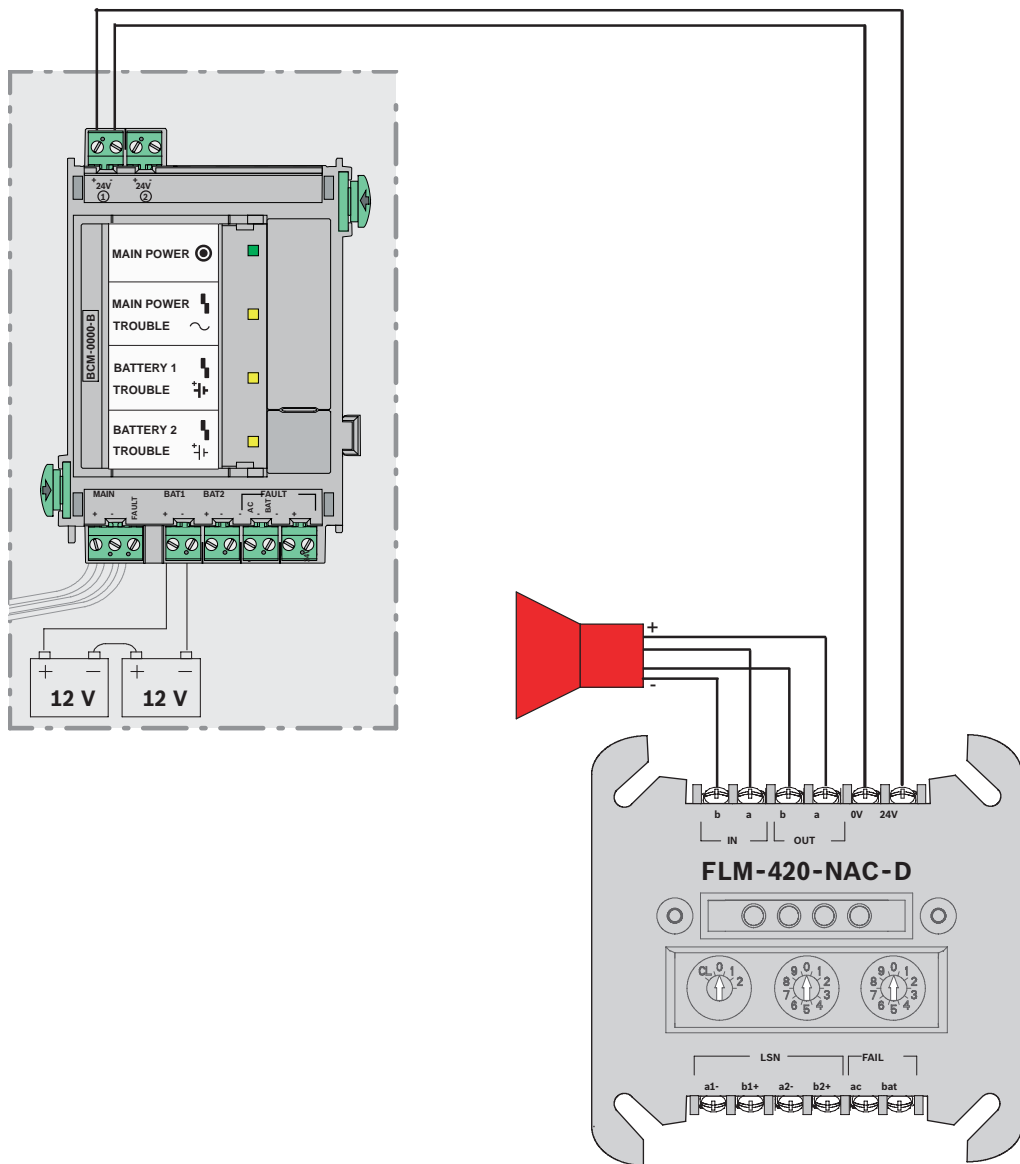
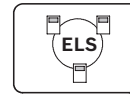


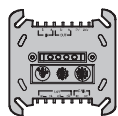
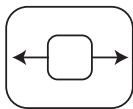
2.4.1

BCM-000-B

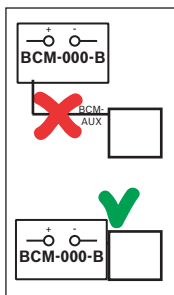
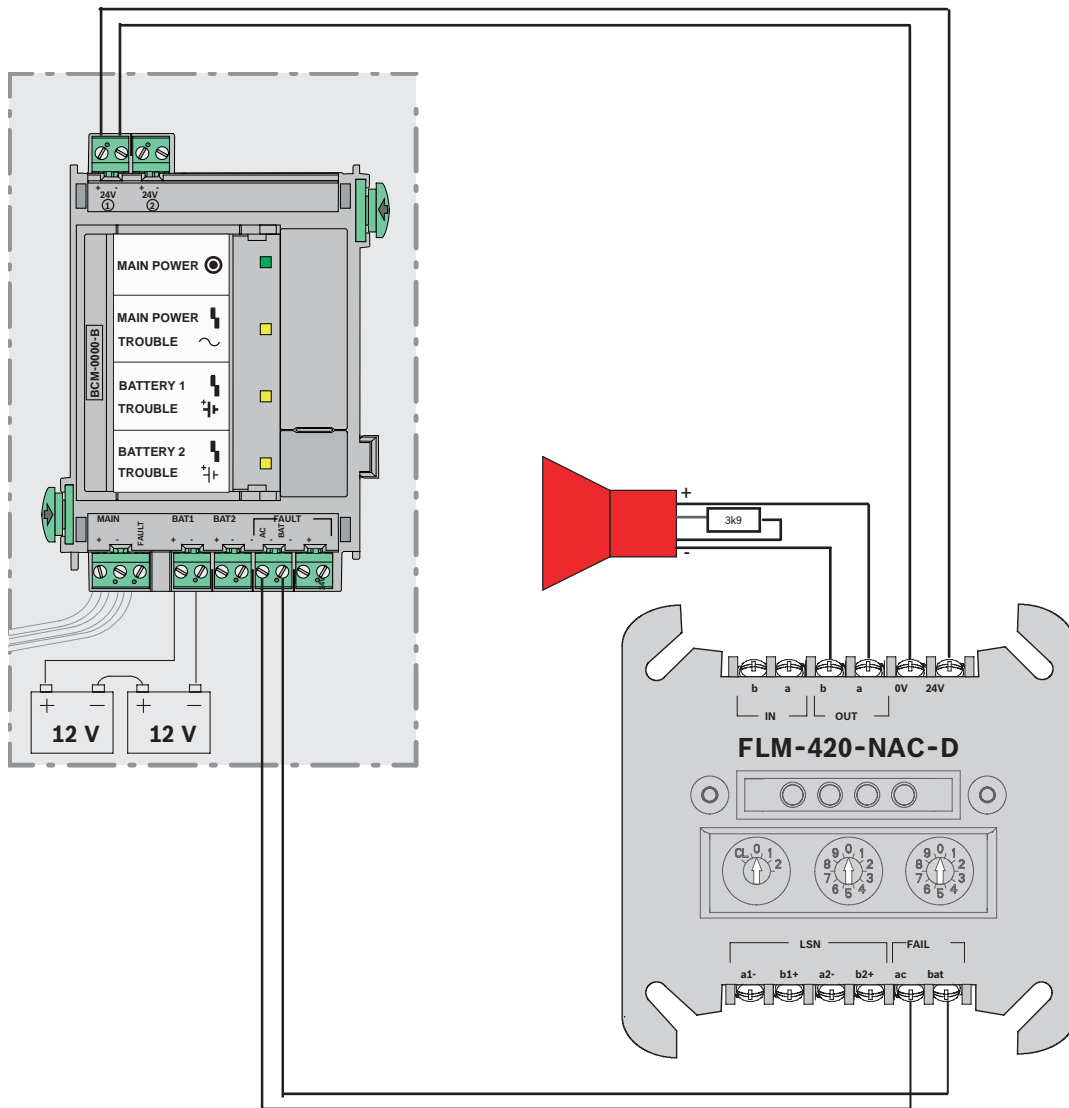
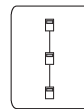


FLM-420-NAC-D





FLM-420-NAC-D

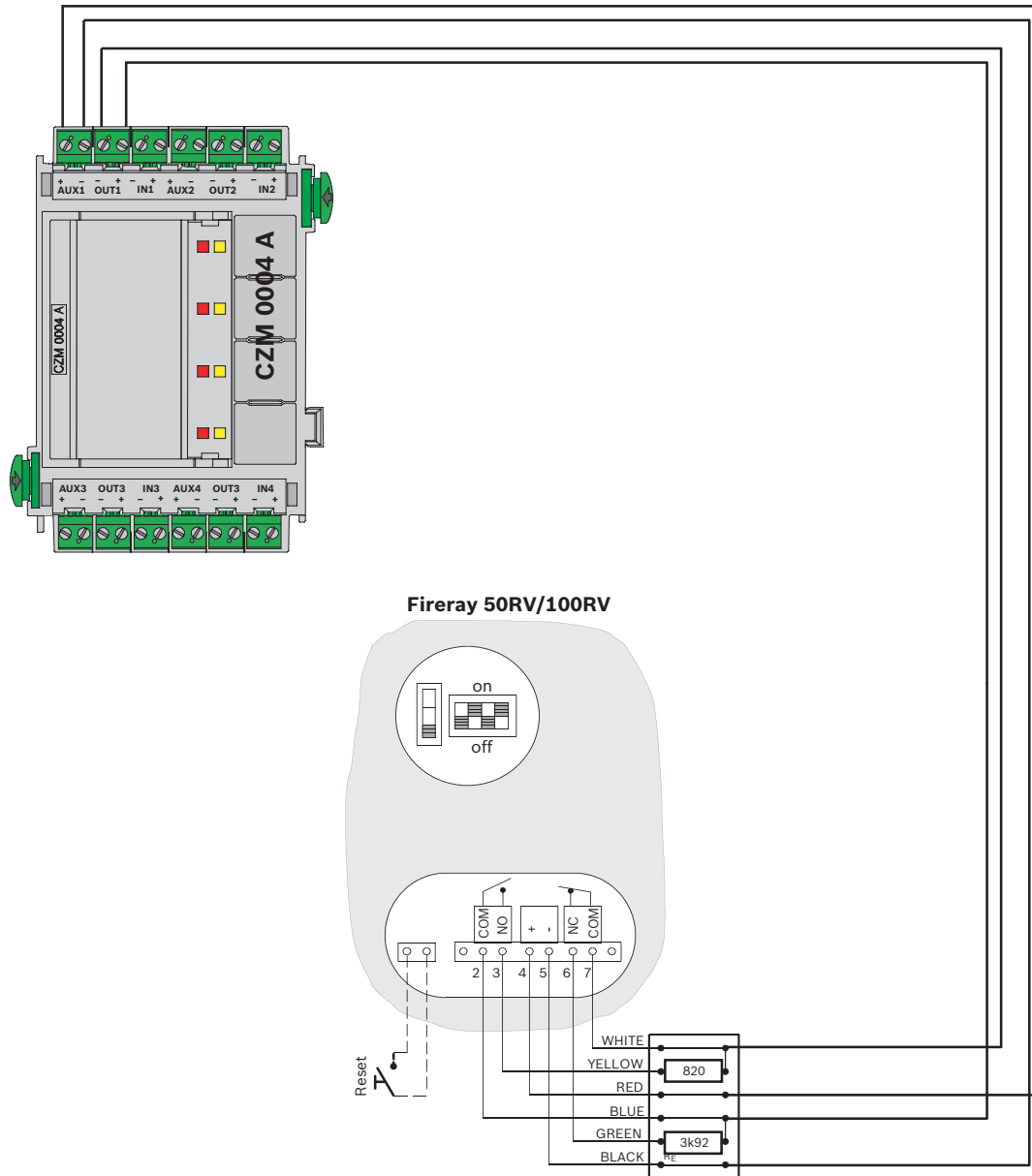


2.4.2

CZM 0004 A



**Firearay 50RV**  
**Firearay 100RV**



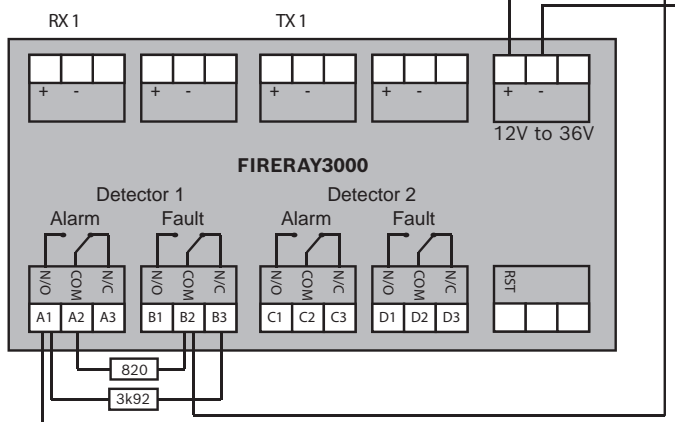
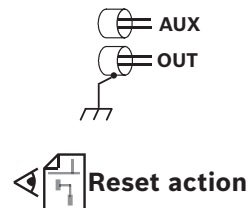
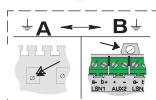
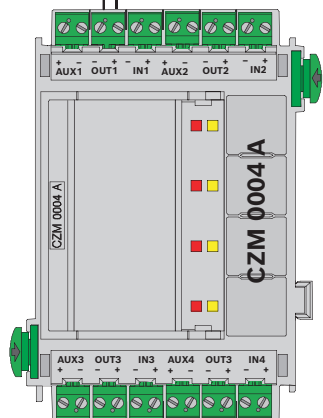


**FIRERAY3000**

1 x



BCM-0000-B  
LSN 0300 A  
LSN 1500 A



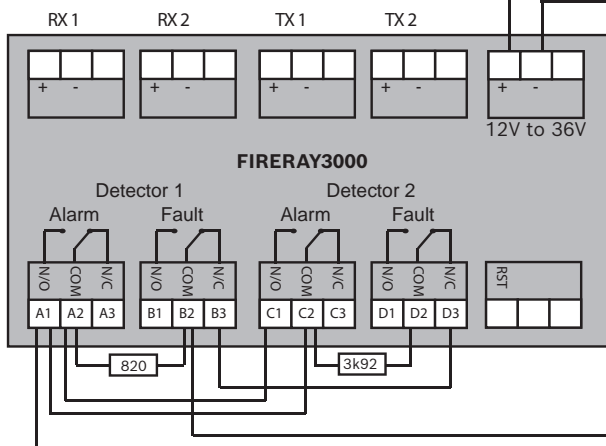
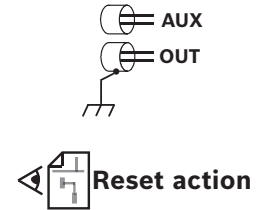
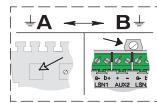
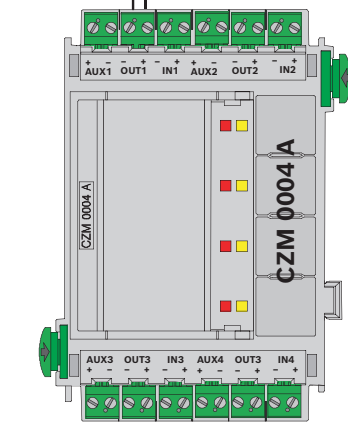


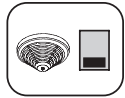
**FIRERAY3000**

2 x  **OUT1**



BCM-000-B  
LSN 0300 A  
LSN 1500 A

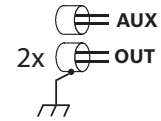
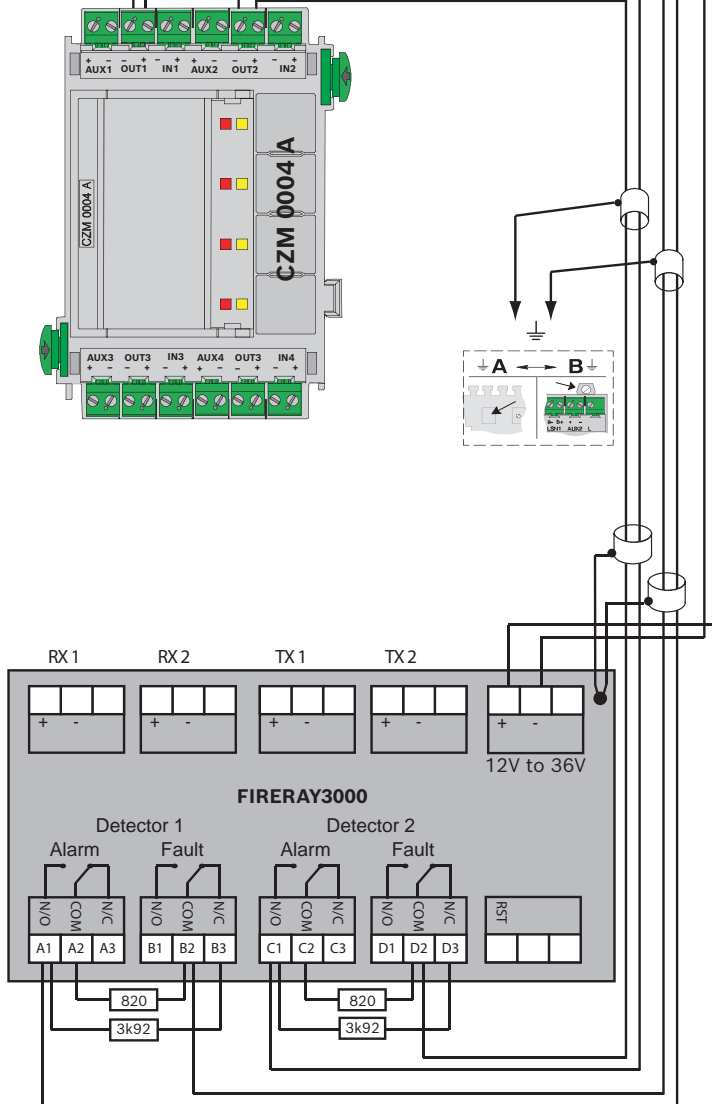




**FIRERAY3000**  
2 x **OUT1+2**



BCM-0000-B  
LSN 0300 A  
LSN 1500 A



**Reset action**

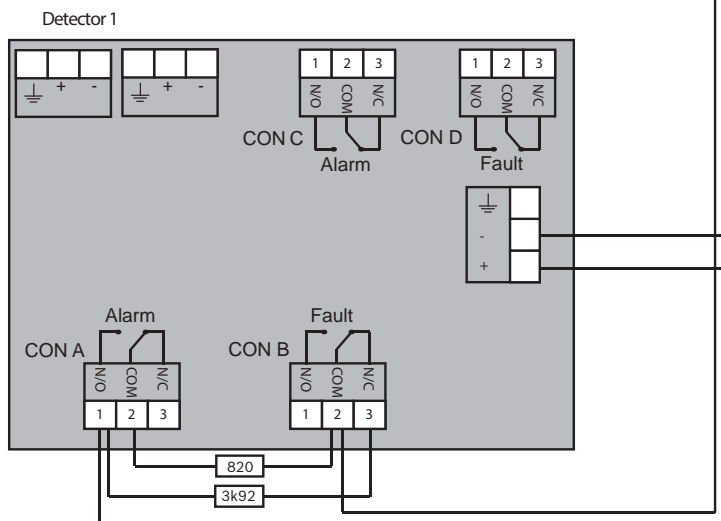
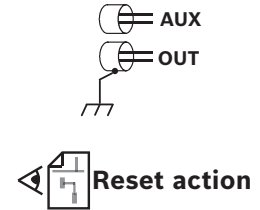
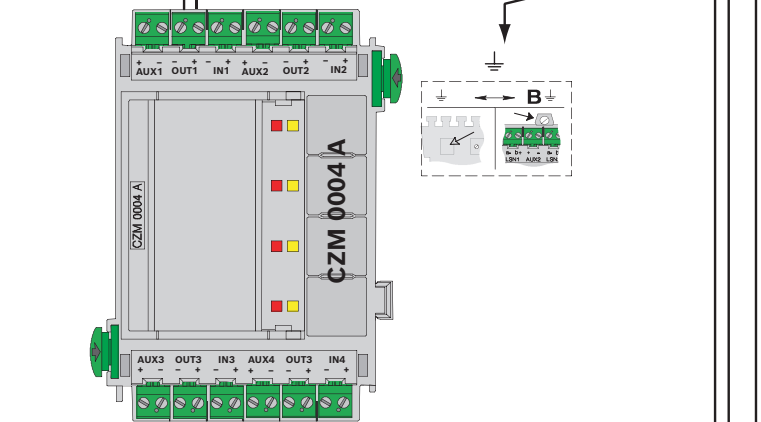


**FIRERAY5000**

1 x



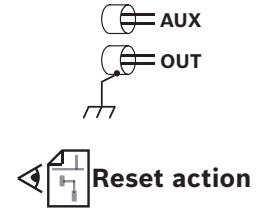
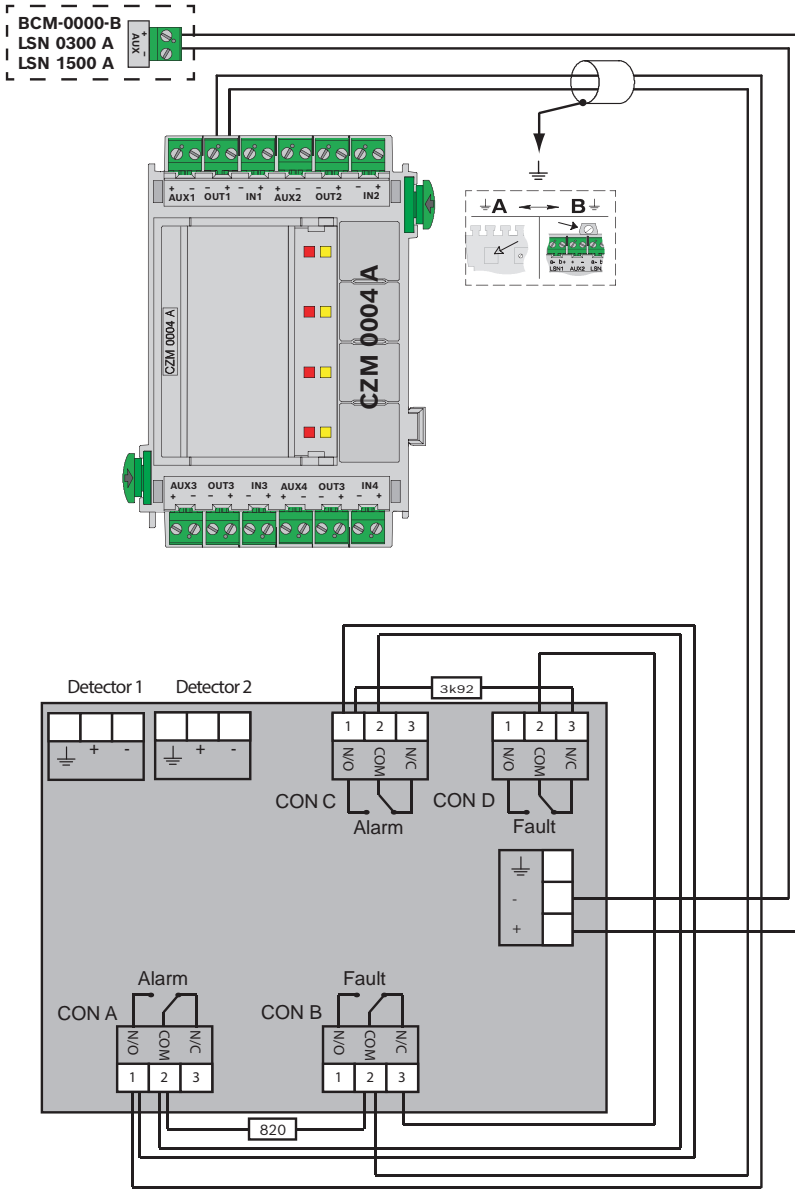
BCM-0000-B  
LSN 0300 A  
LSN 1500 A



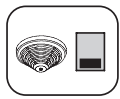


**FIRERAY5000**

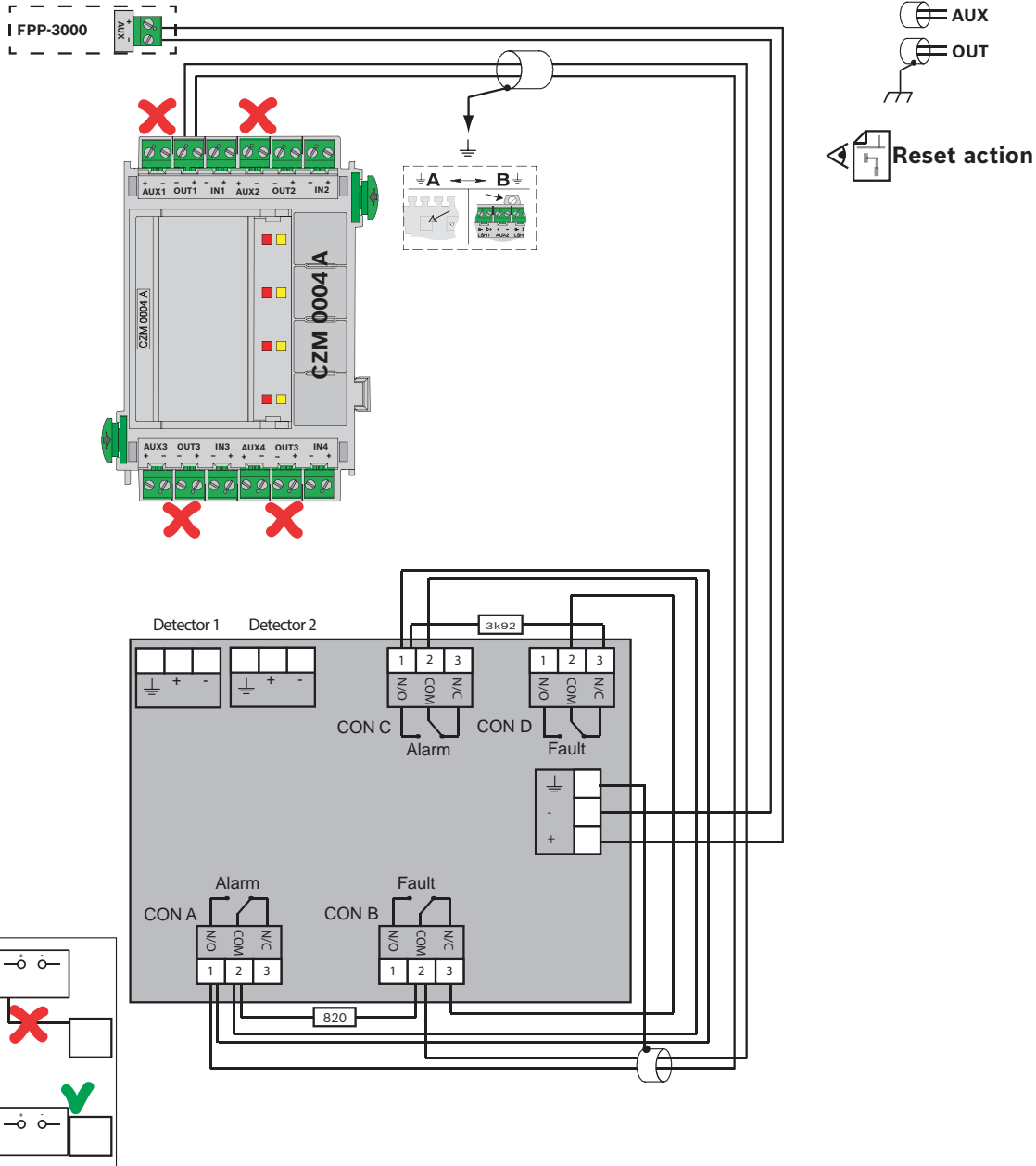
**2 x OUT1**

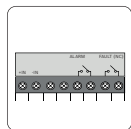




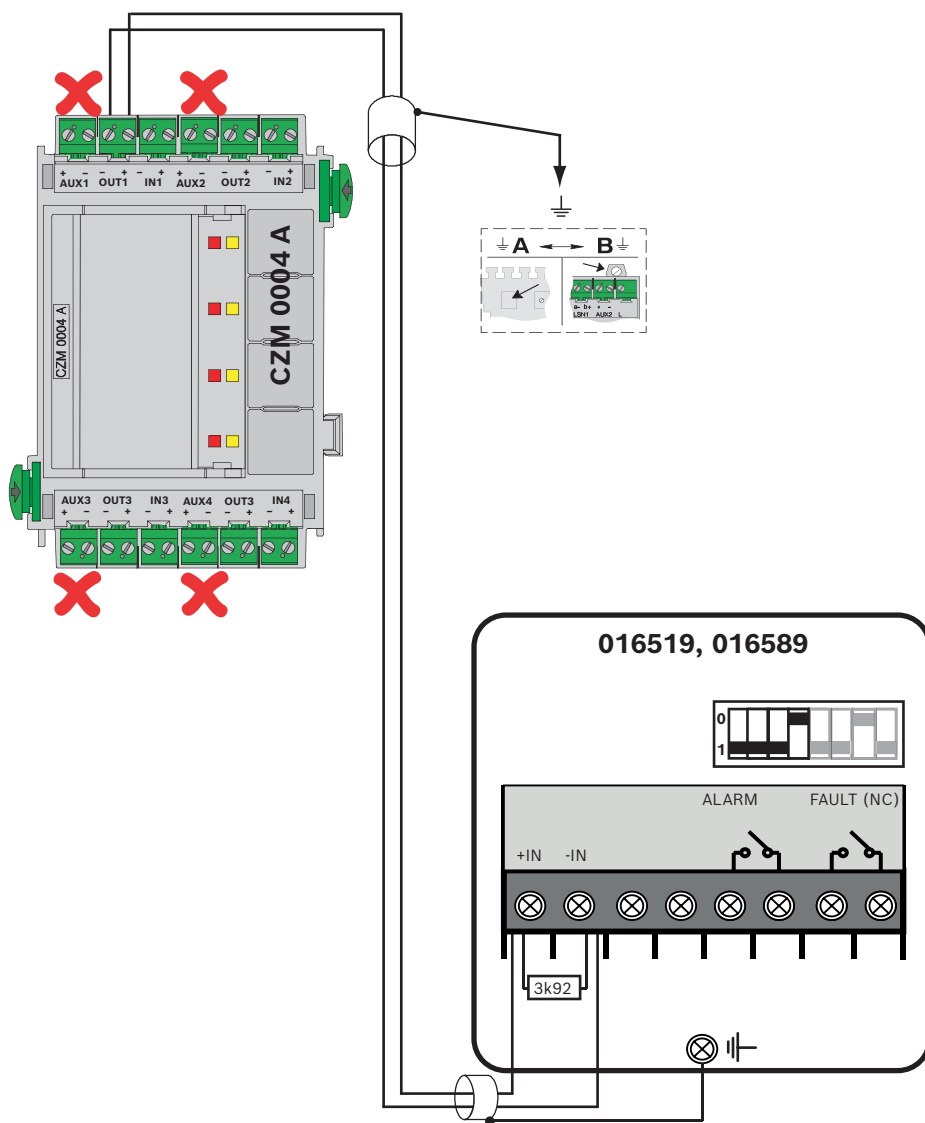
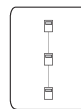


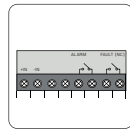
**FIRERAY5000**  
2 x  **OUT1**



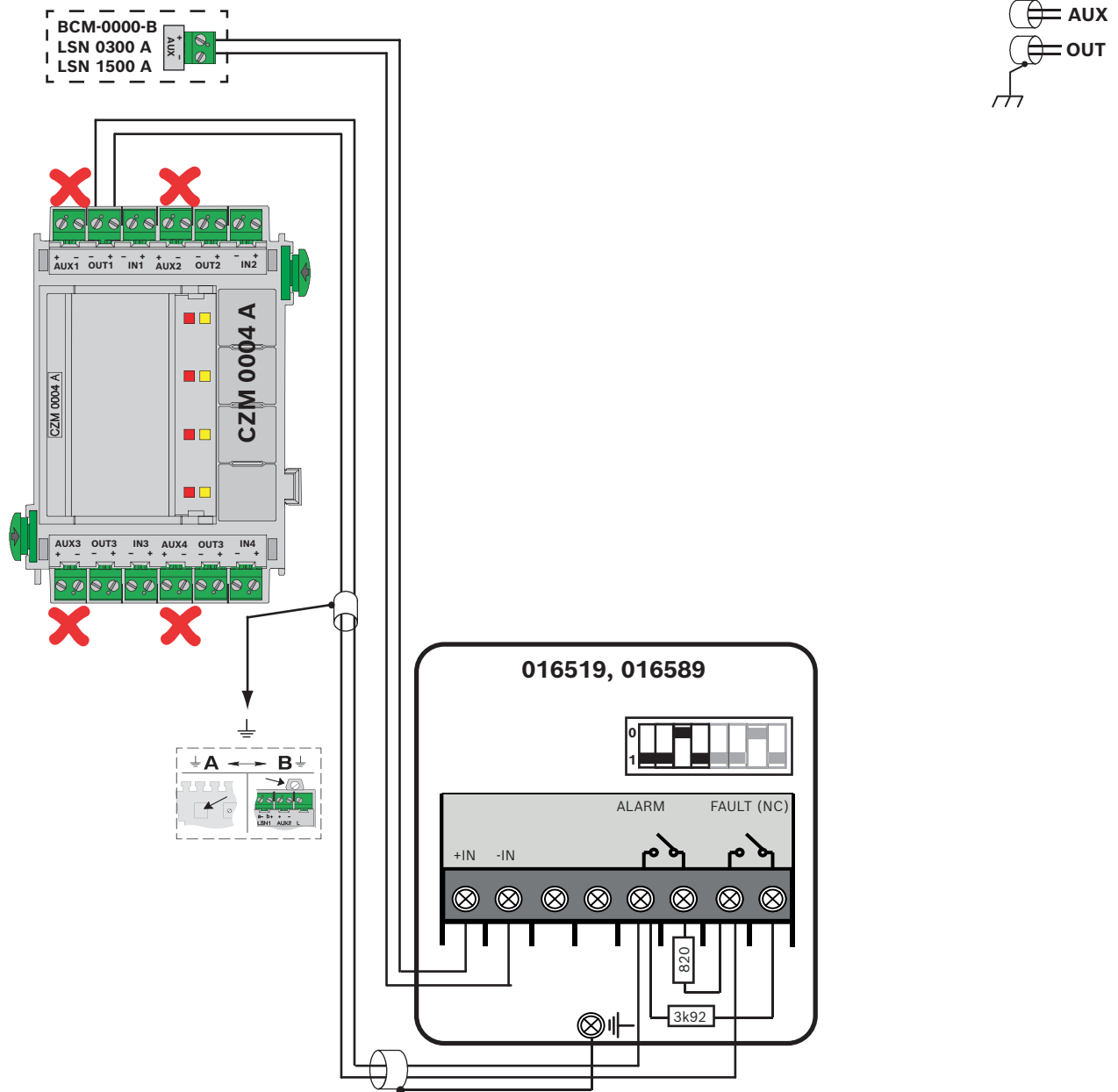
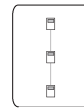


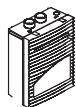
**016519, 016589**  
**IR3 Flame Detector**





**016519, 016589  
IR3 Flame Detector**

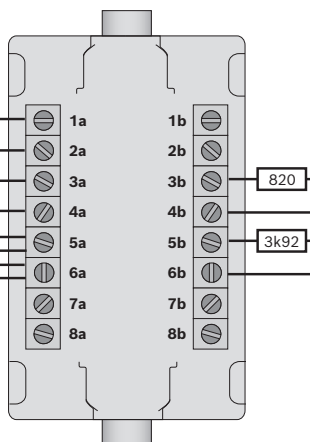
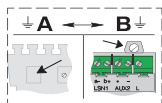
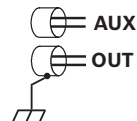
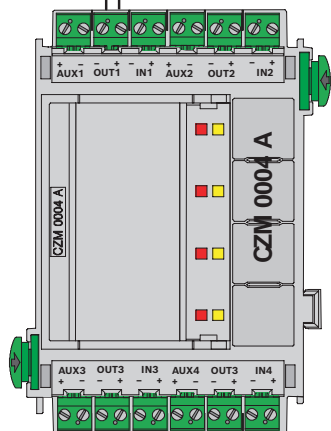


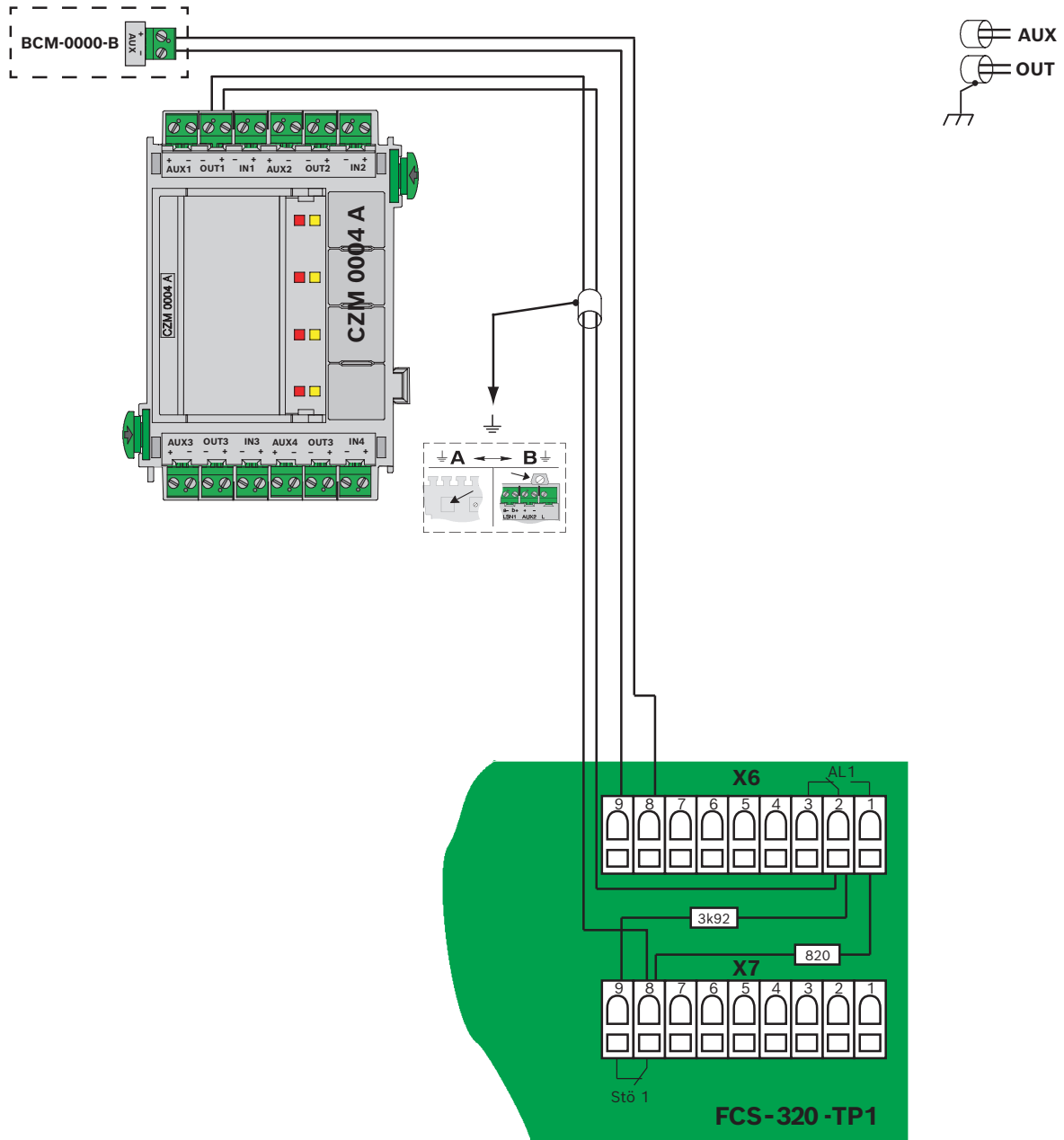
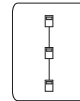
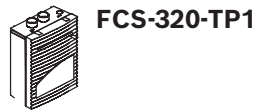


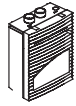
FCS-320-TM Series



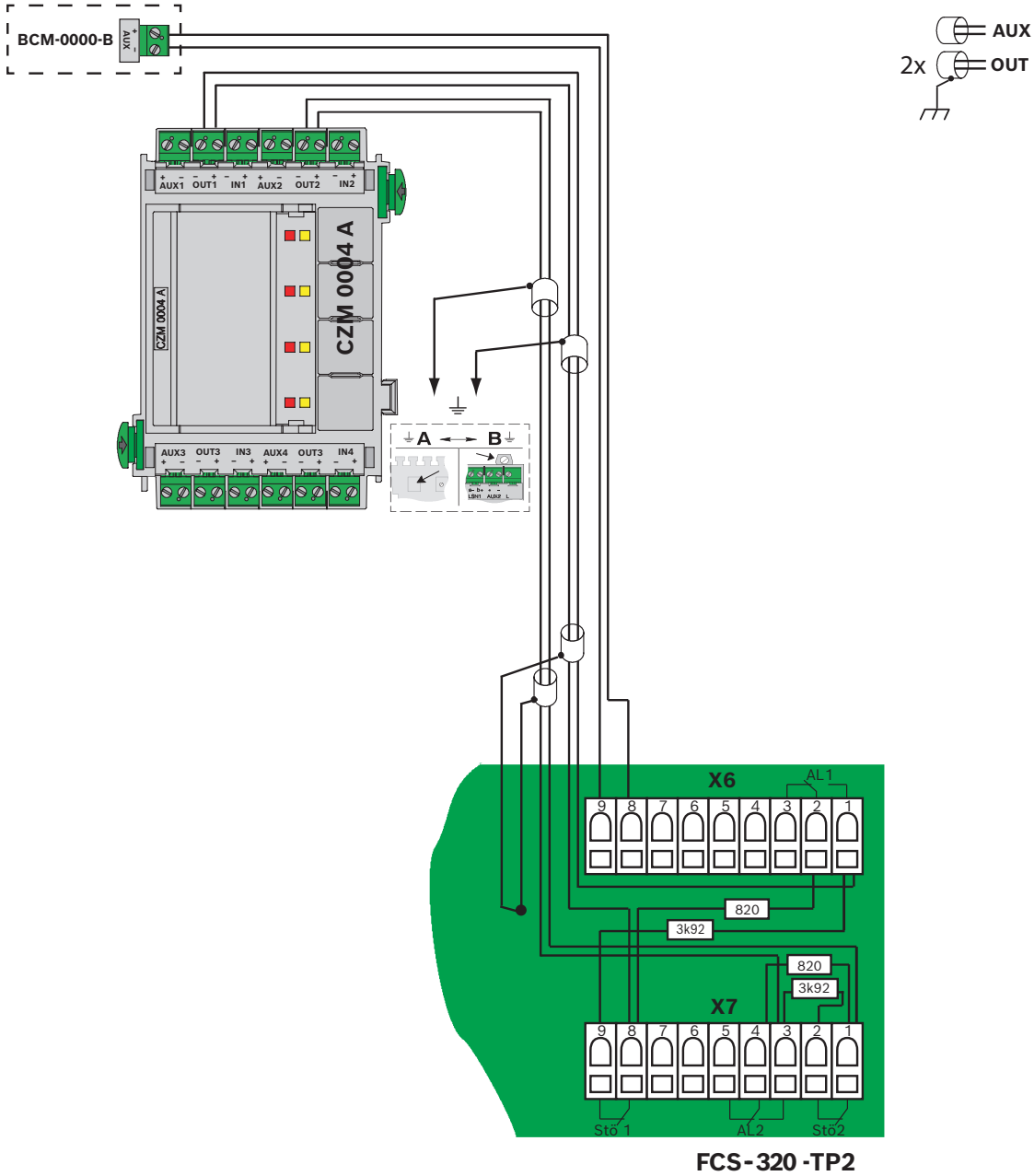
BCM-0000-B  
LSN 0300 A  
LSN 1500 A







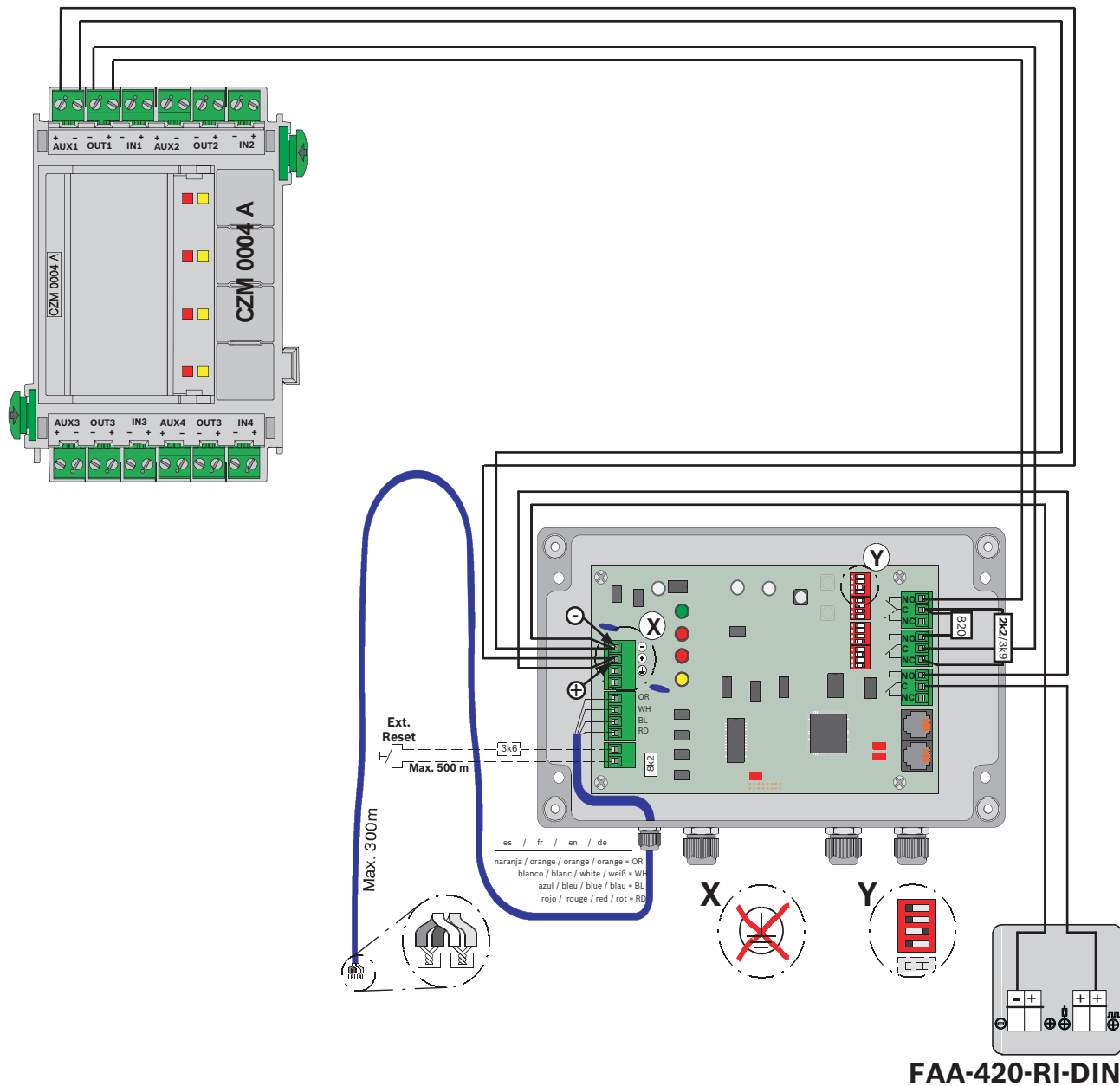
FCS-320-TP2



FCS-320-TP2

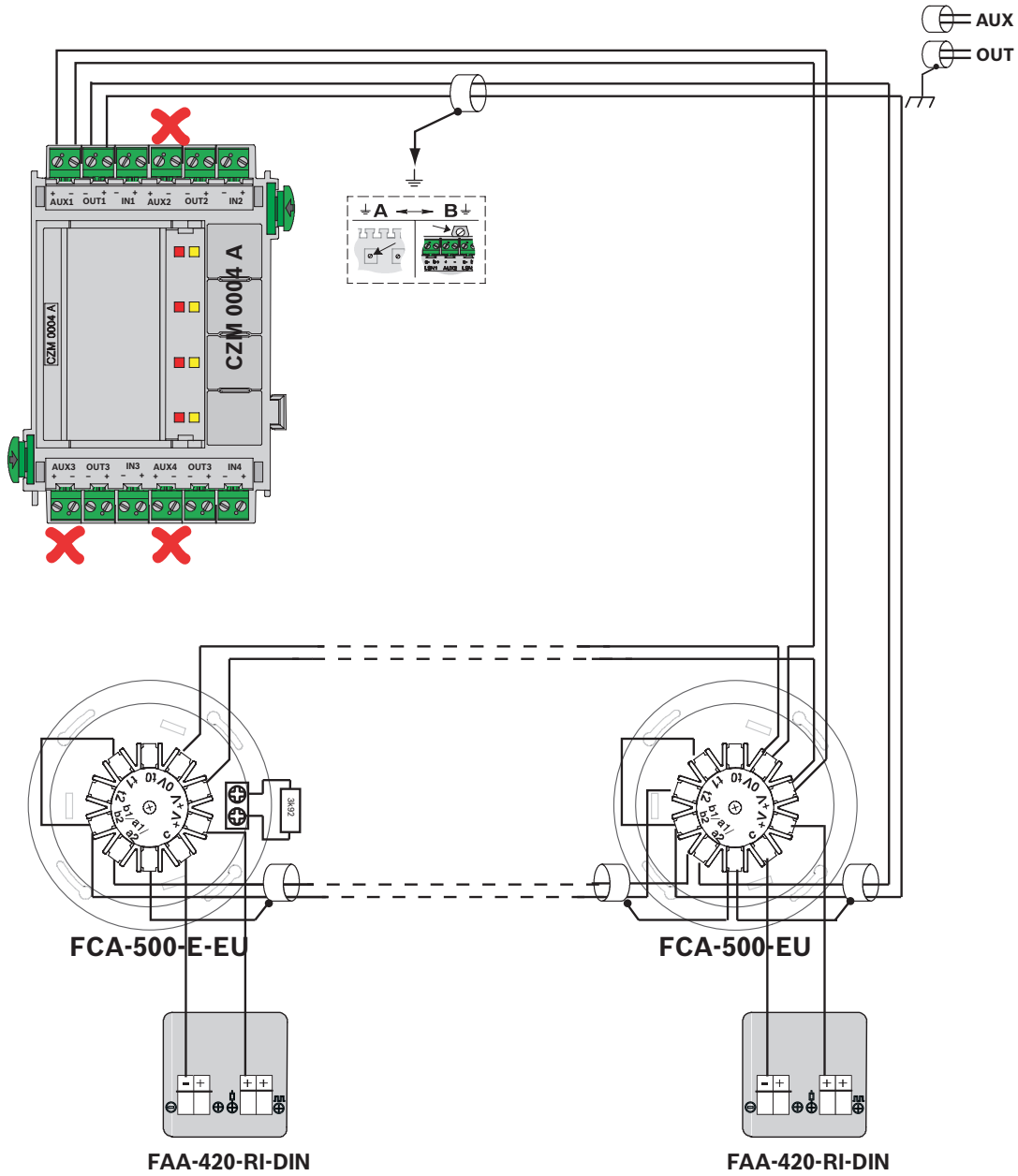


FCS-LWM-1

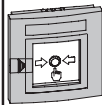




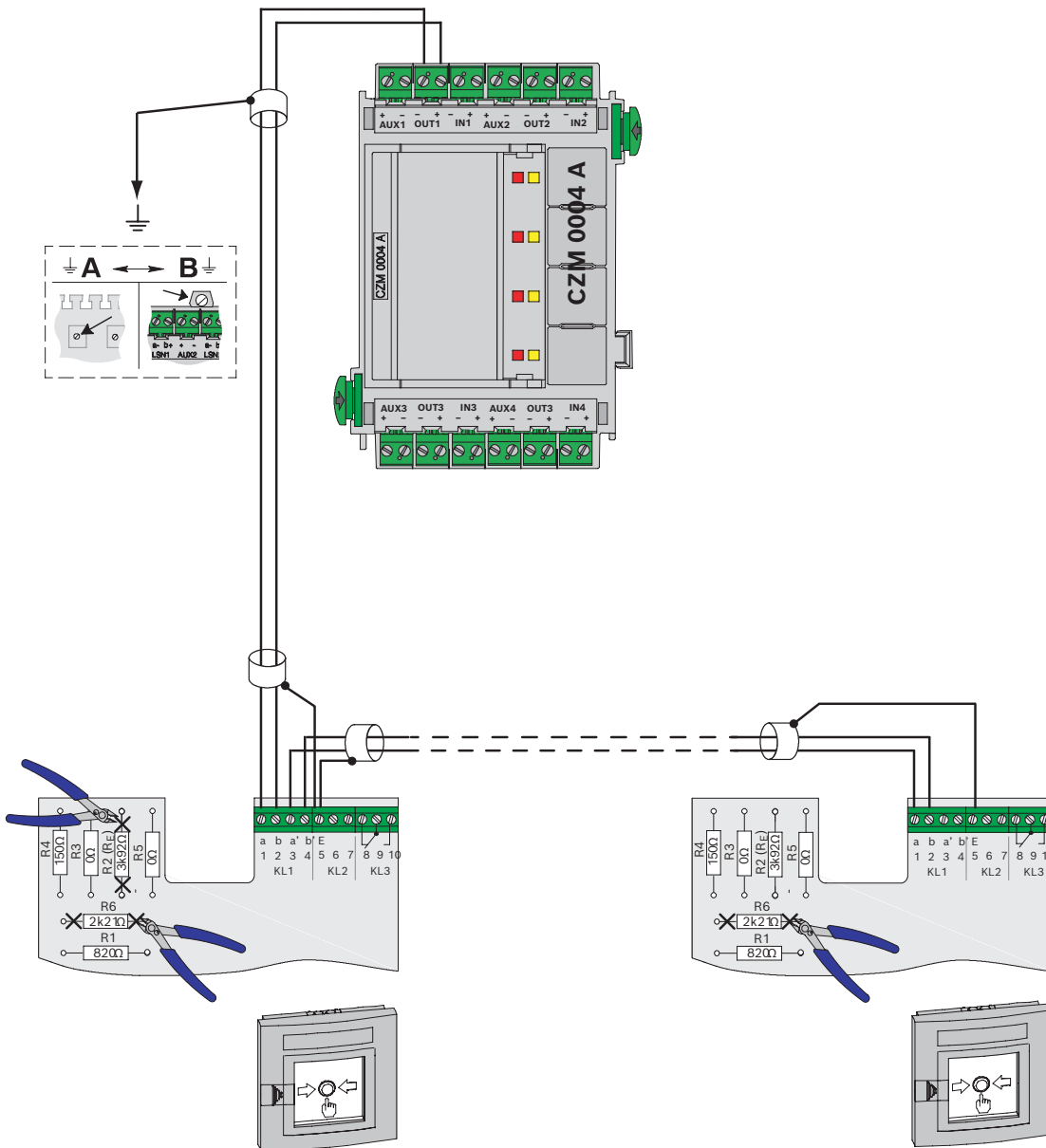
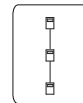
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 FCP-O 500  
 FCP-O 500-P  
 FCP-OC 500  
 FCP-OC 500-P

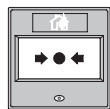
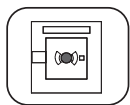




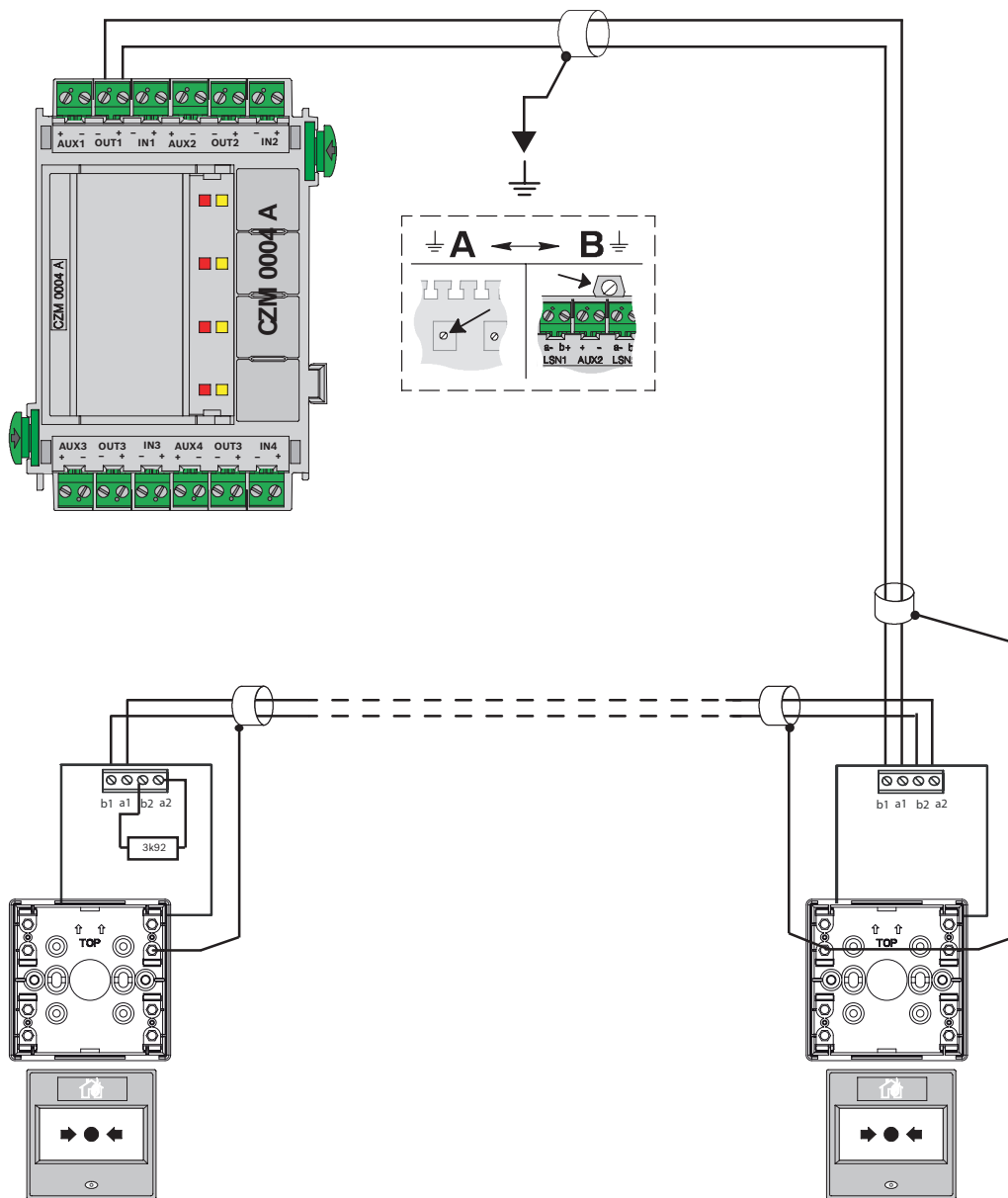
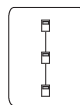


**FMC-120-DKM-G-R**  
**FMC-120-DKM-H-R**  
**FMC-120-DKM-G-B**  
**FMC-120-DKM-H-B**  
**FMC-120-DKM-G-Y**





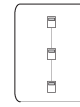
**FMC-300RW-GSGBU**  
**FMC-300RW-GSRBU**  
**FMC-300RW-GSGRD**  
**FMC-300RW-GSRRD**  
**FMC-300RW-GSGYE**  
**FMC-300RW-GSRYE**



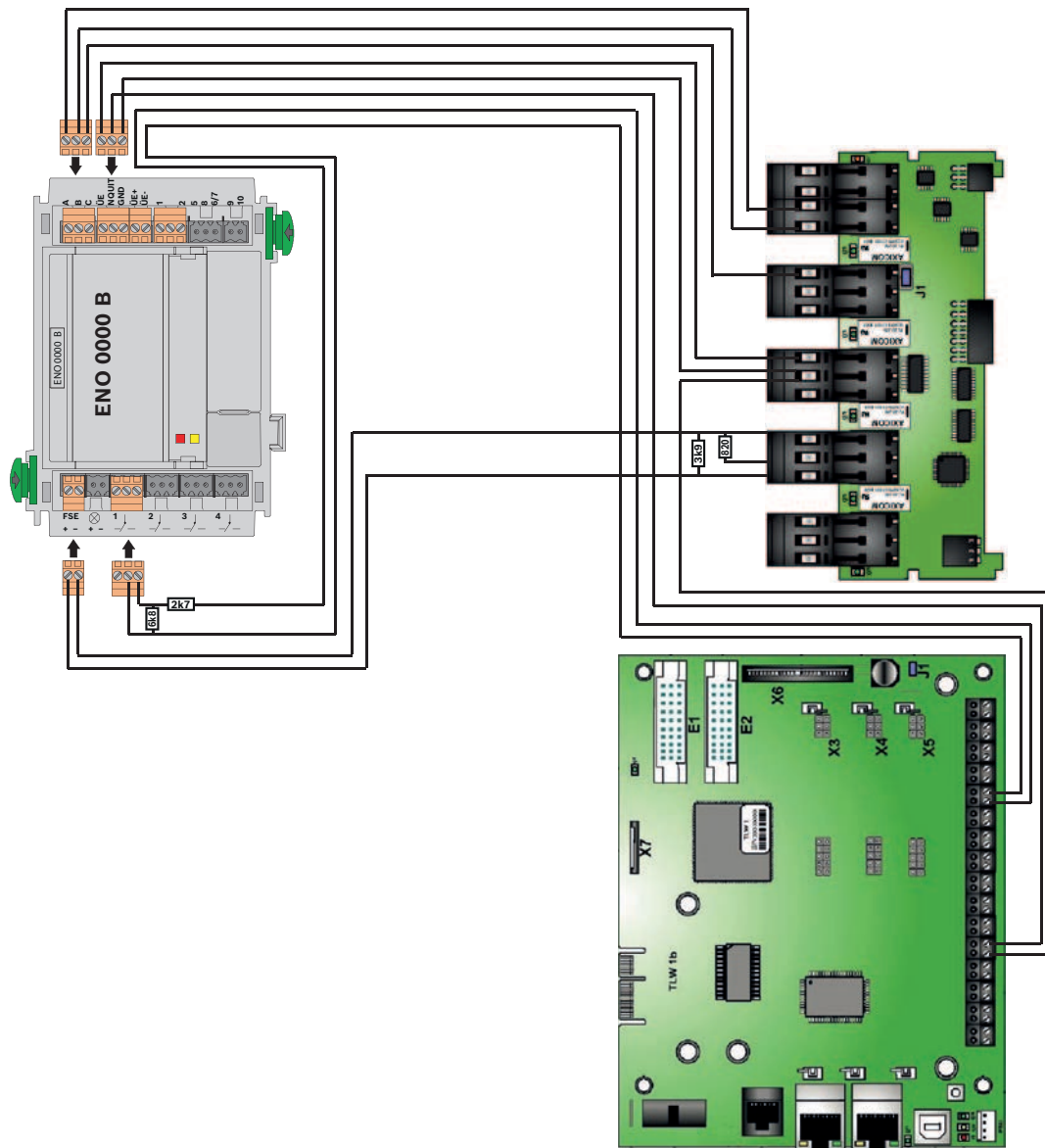
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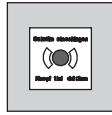
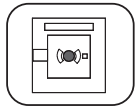


AT5000 IP/GPRS

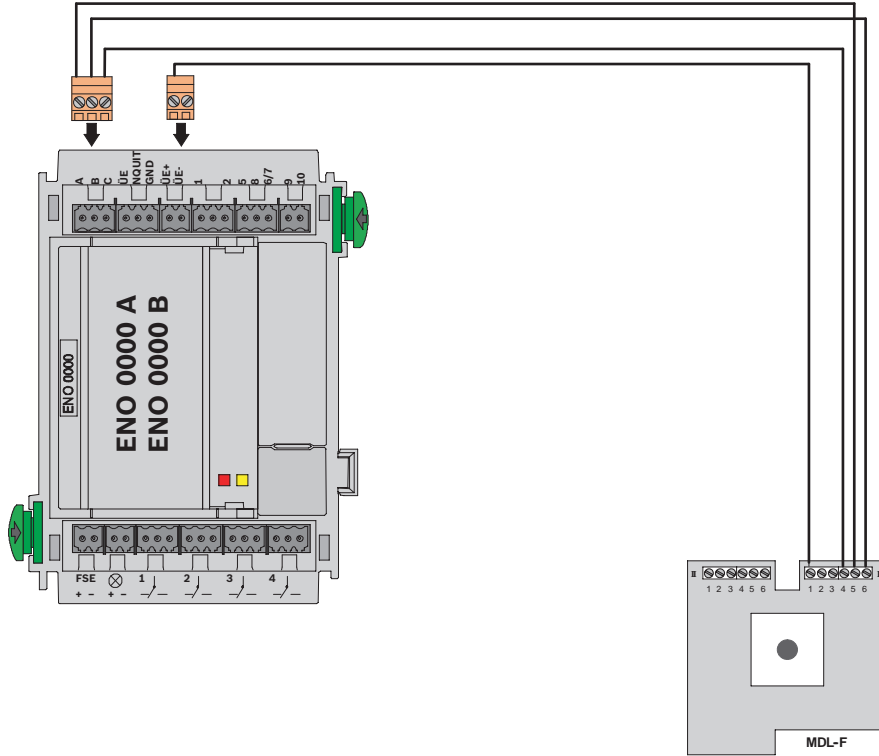


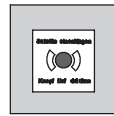
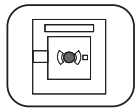
EN 54-2



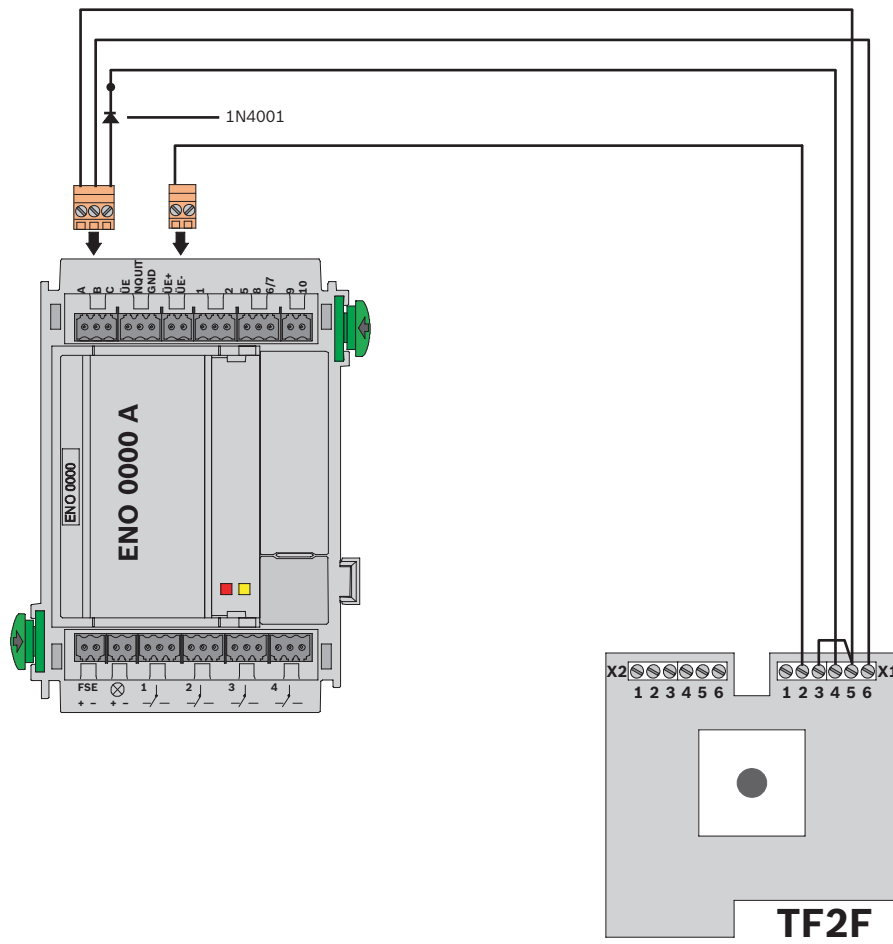
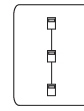


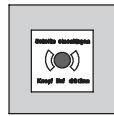
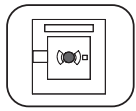
**MDL-F**



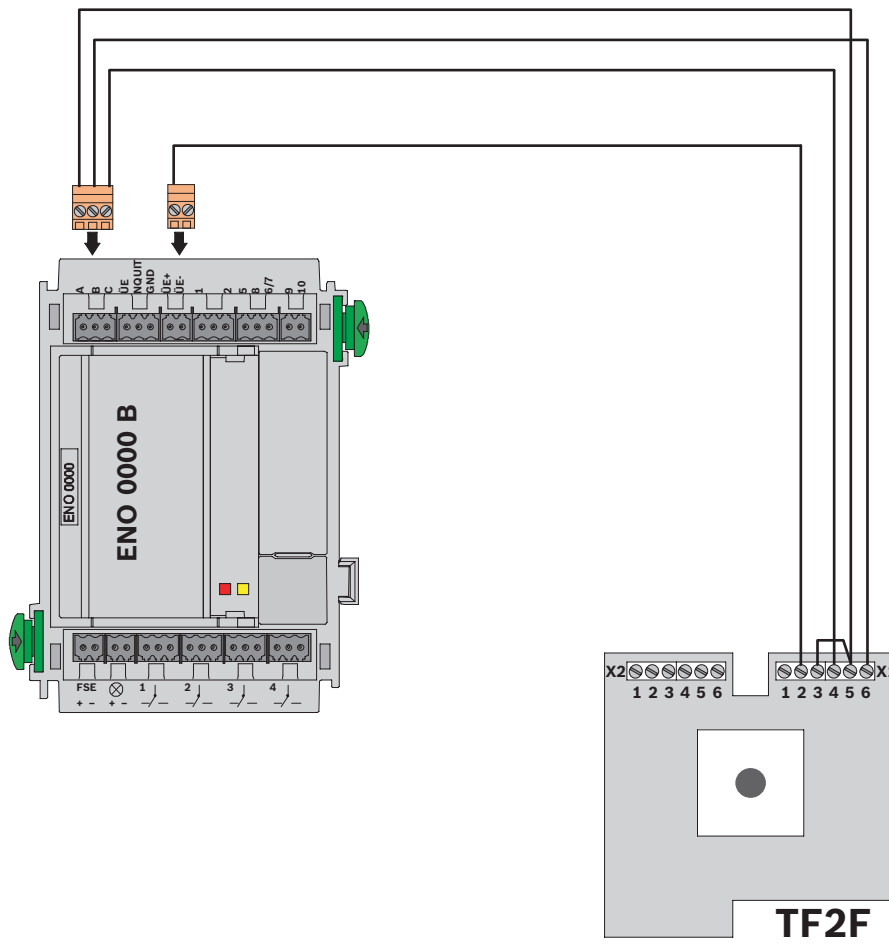
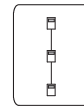


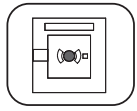
TF2F



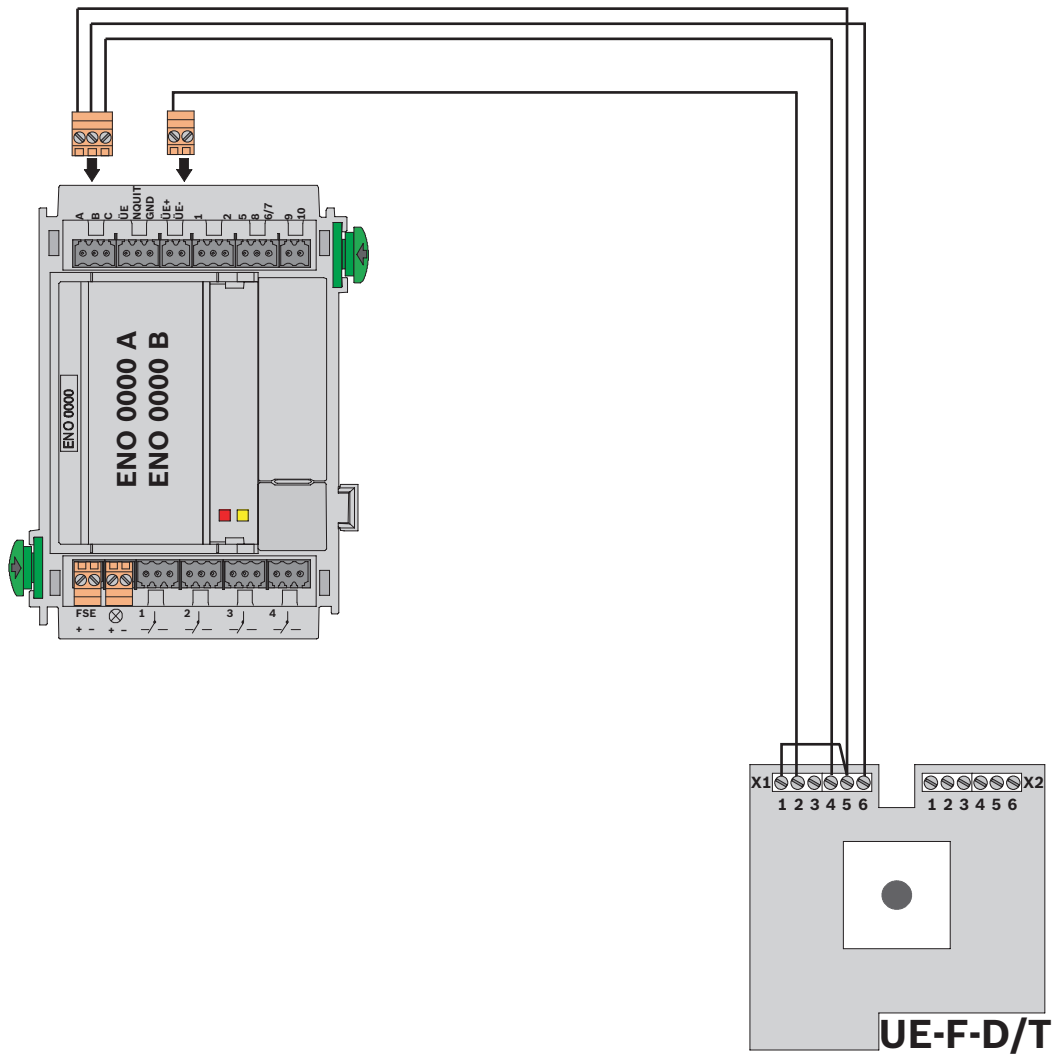


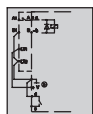
TF2F



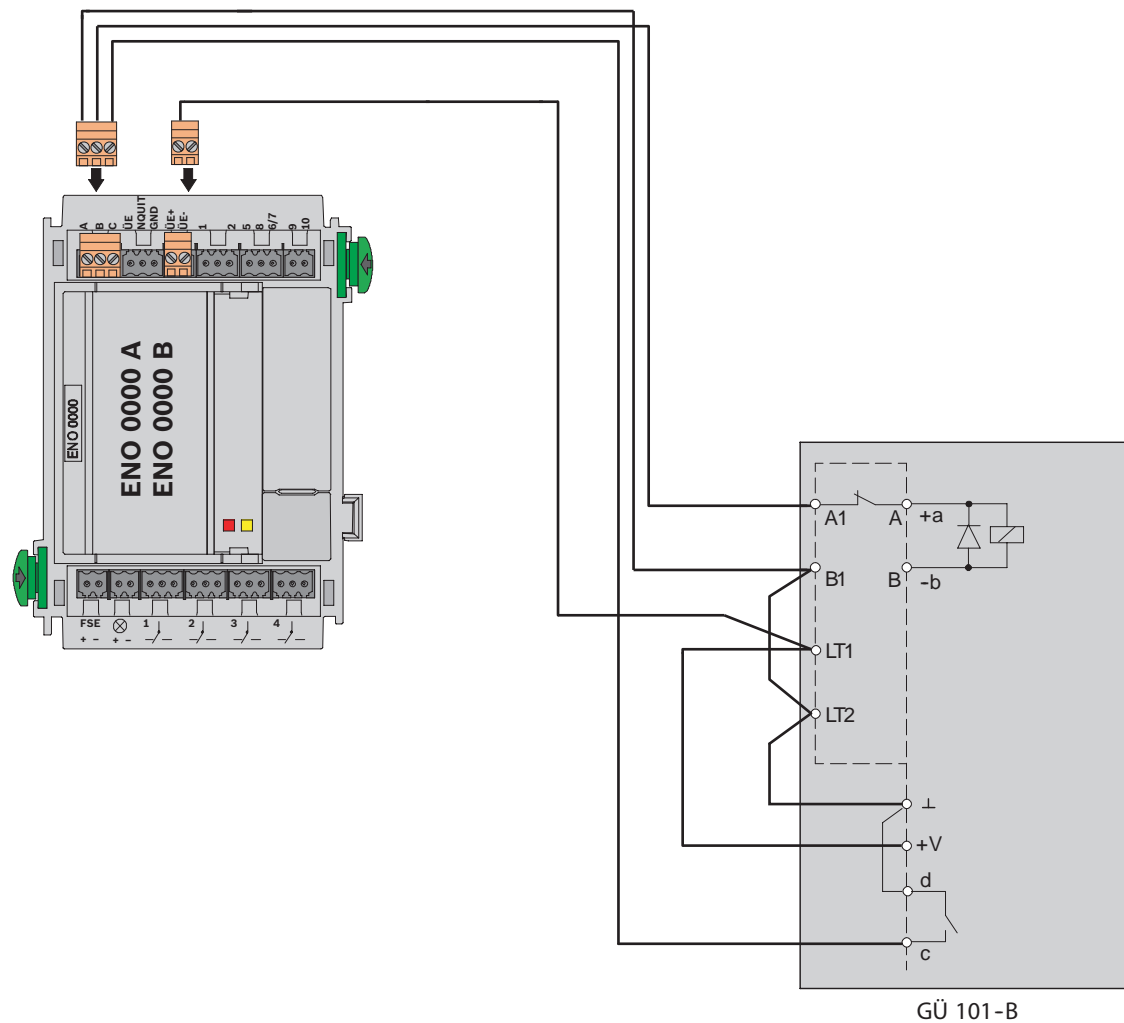
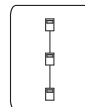


**UE-F-D/T**

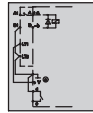




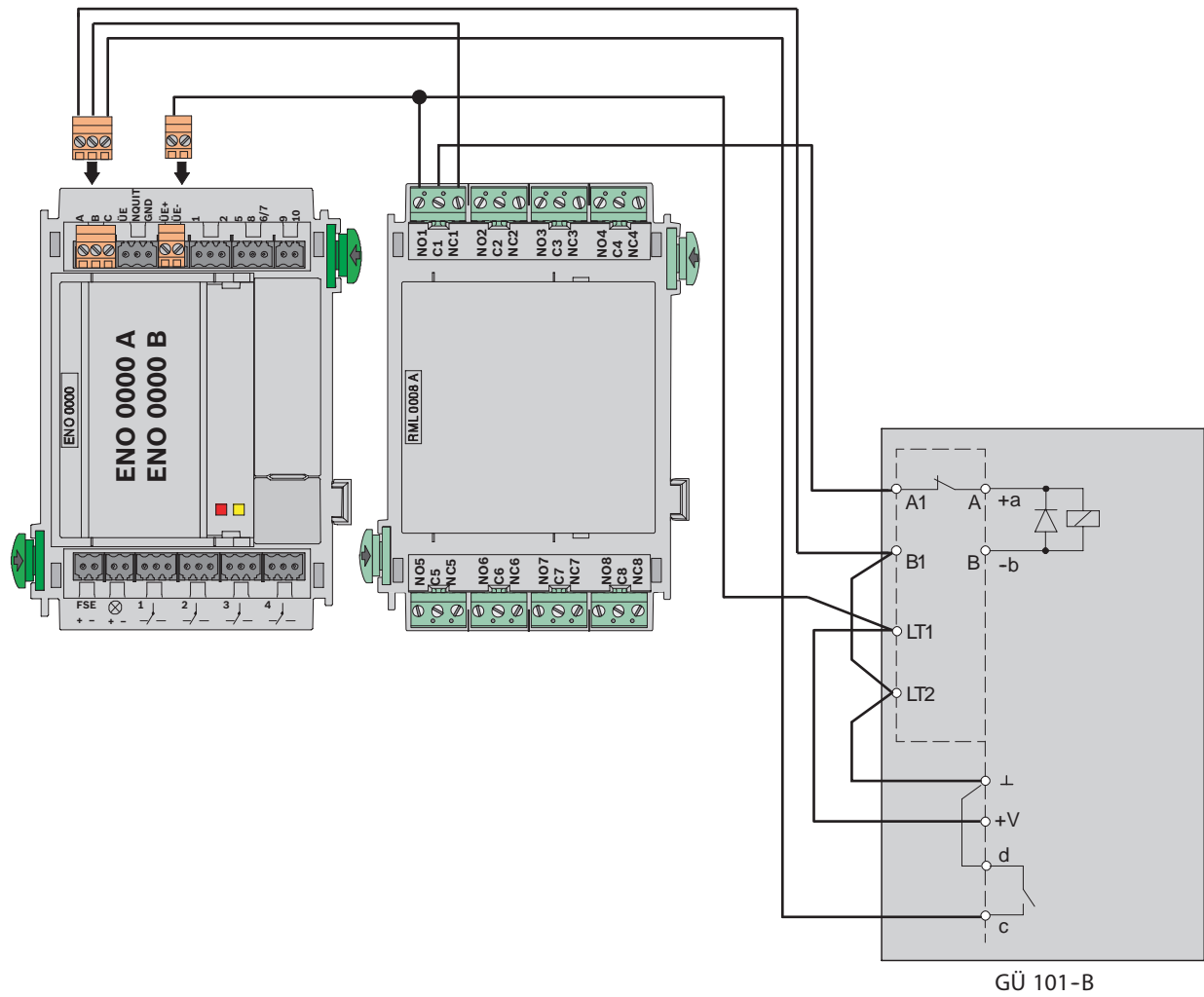
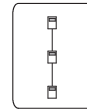
**GÜ 101-B**





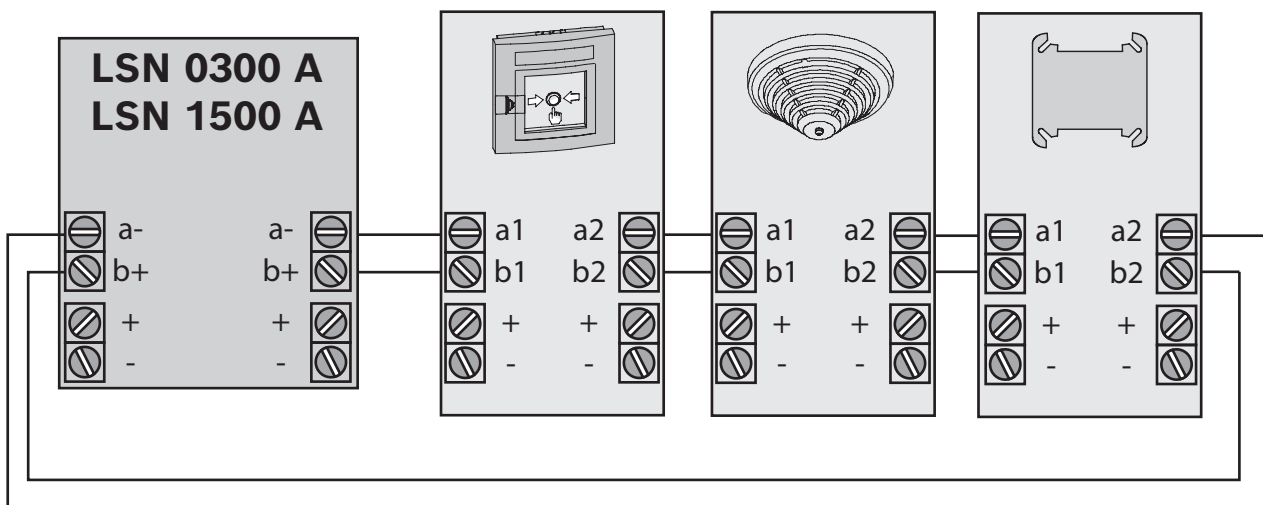
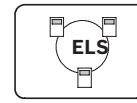


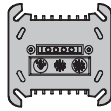
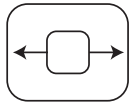
**GÜ 101-B**



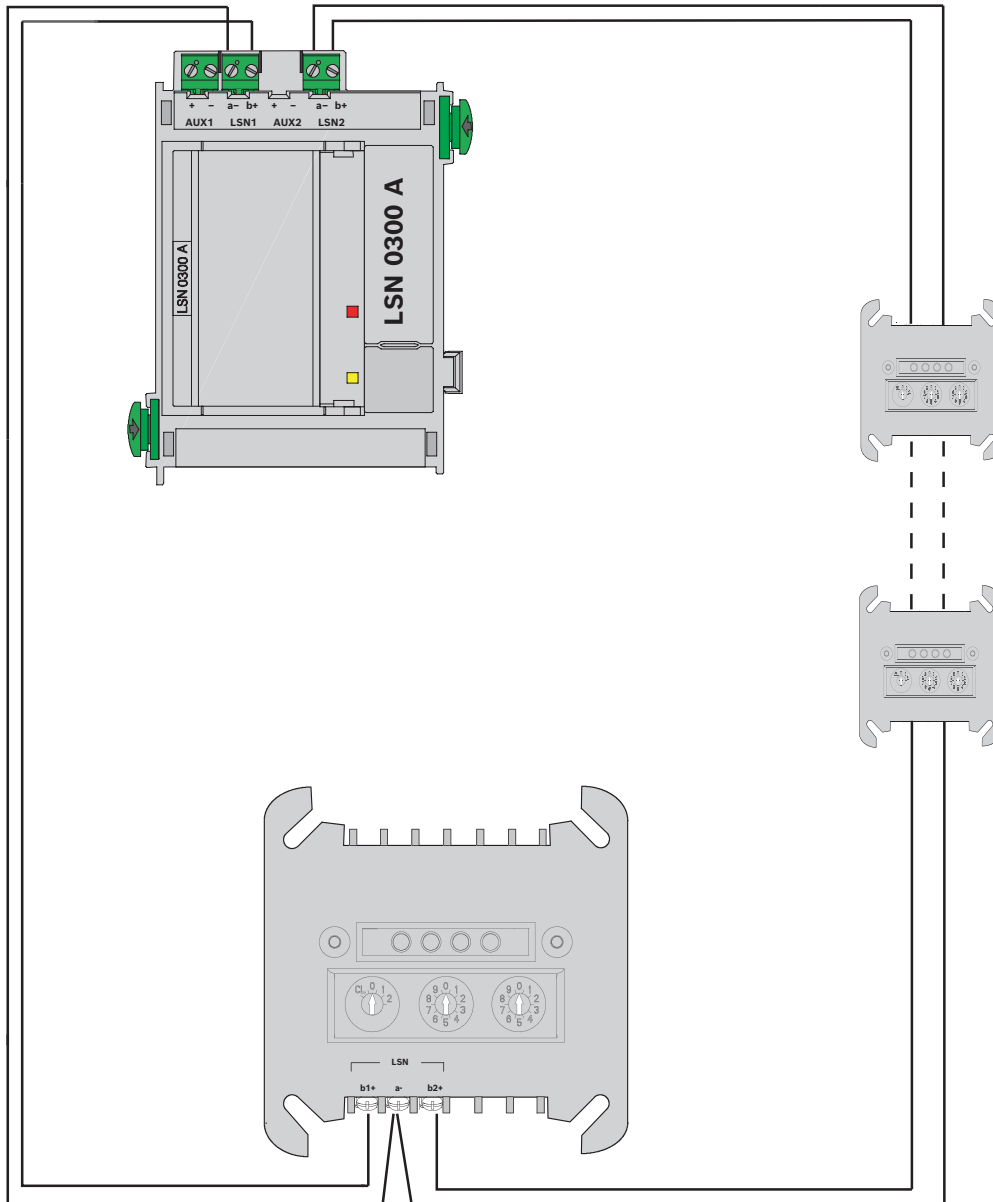
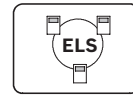
2.4.4

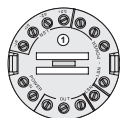
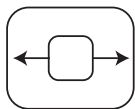
LSN 0300 A



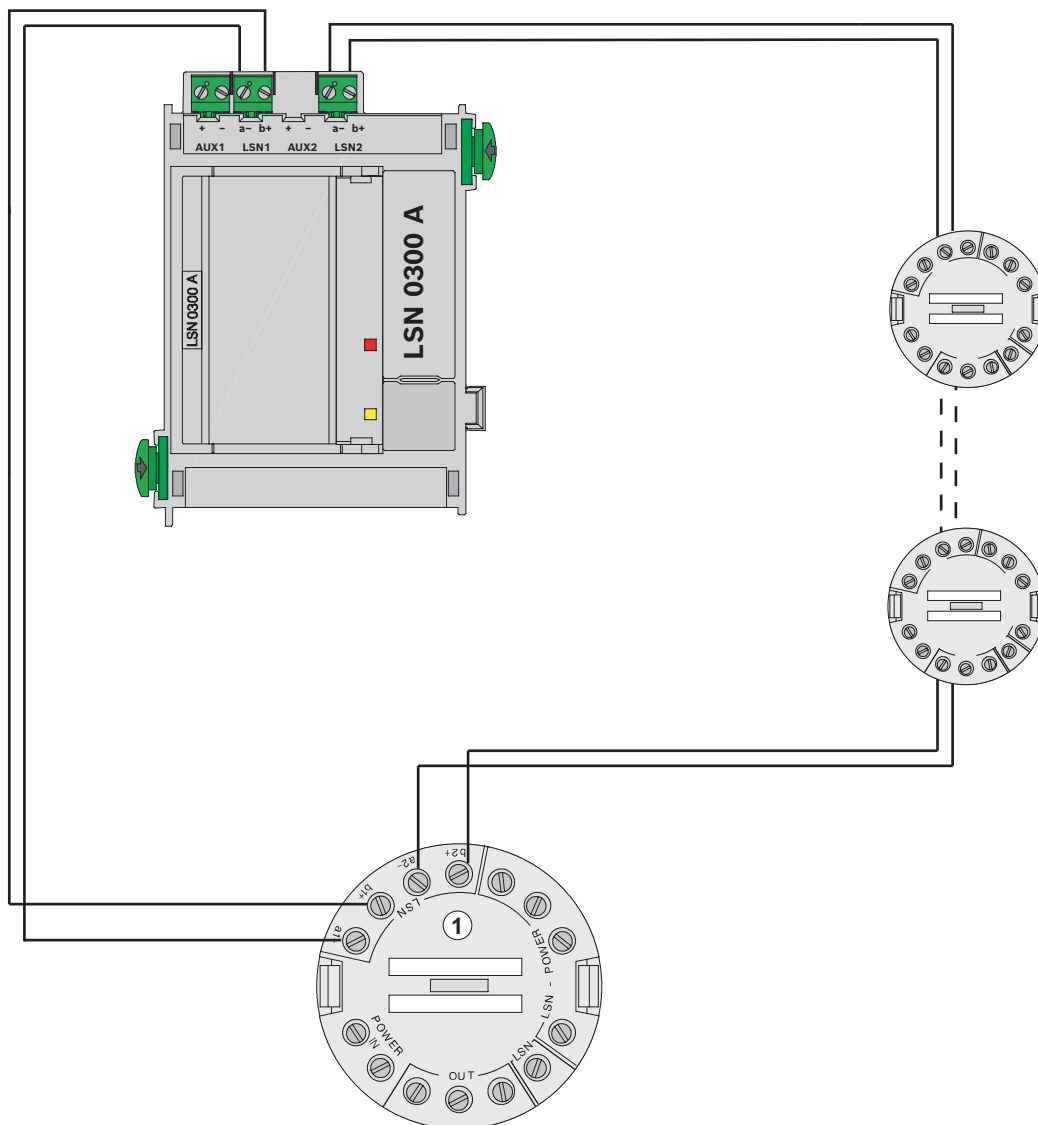
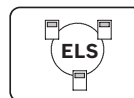


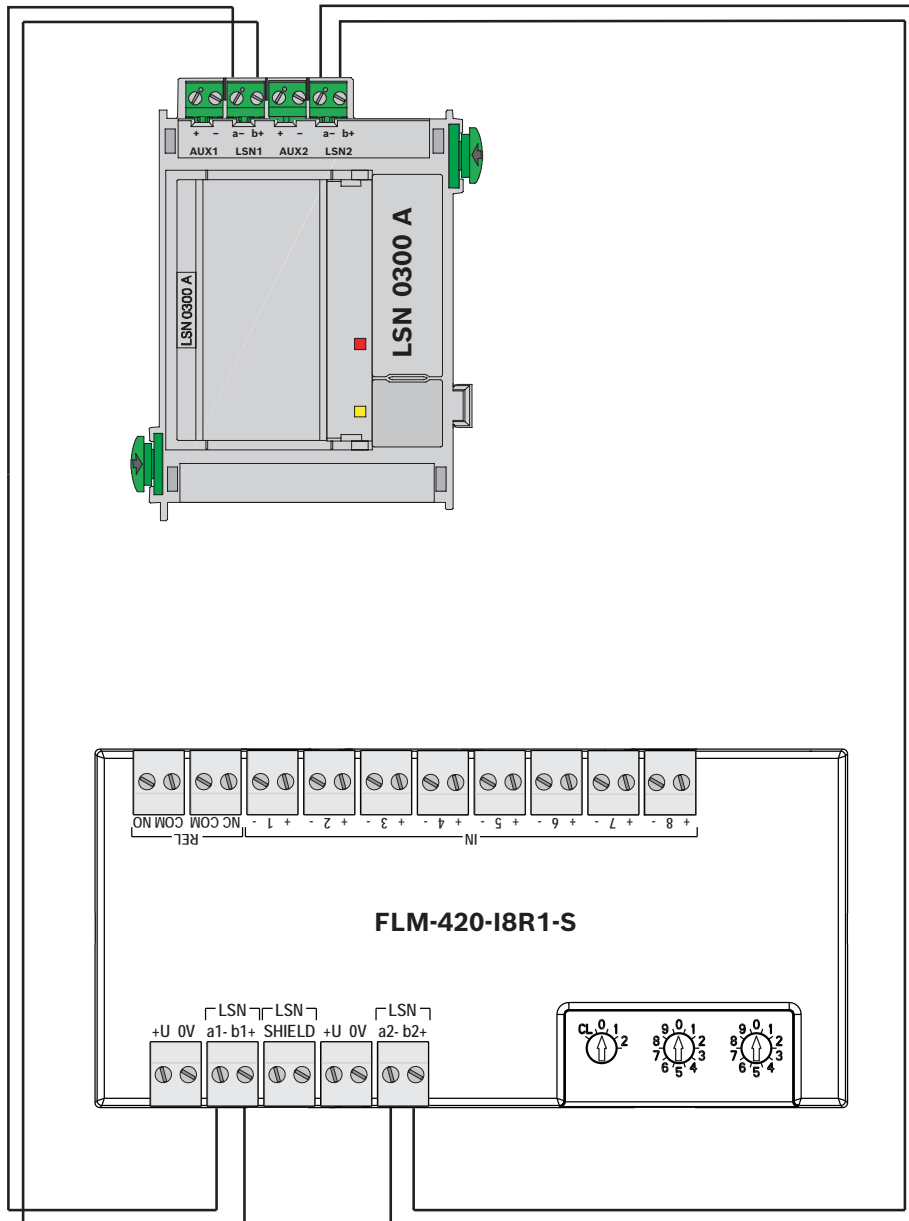
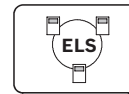
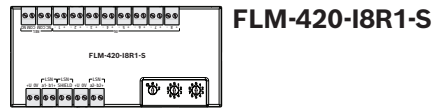
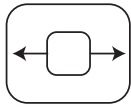
**FLM-I 420-S**  
**FLM-420-I2-D**  
**FLM-420-O1I1-D**  
**FLM-420-RHV-D/S**  
**FLM-420-RLV1-D**

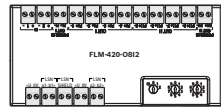
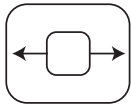




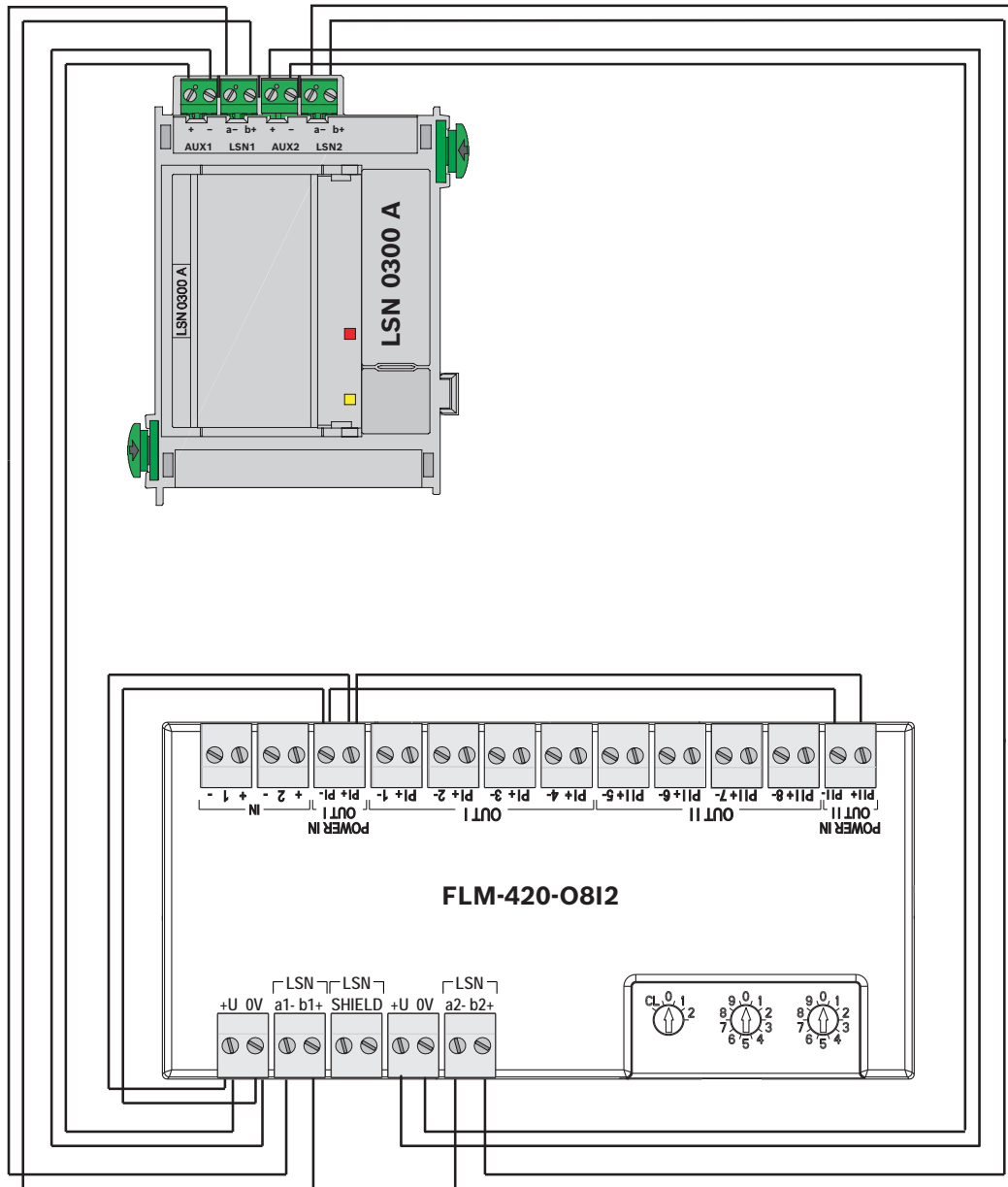
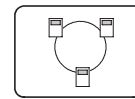
**FLM-420-12-E/W**  
**FLM-420-RLV1-E**

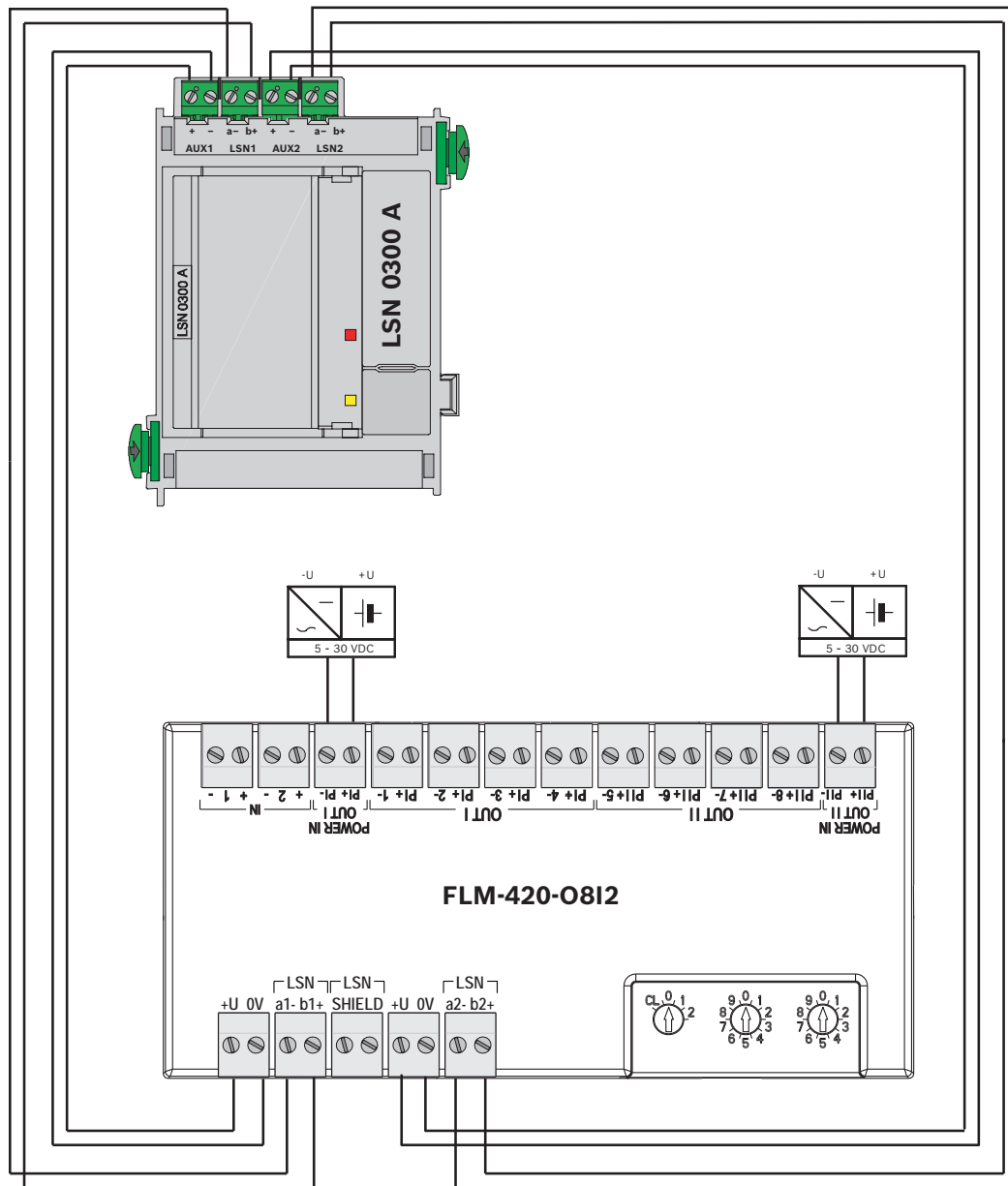
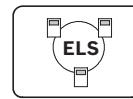
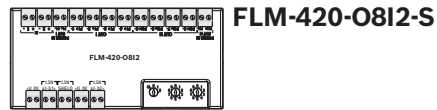
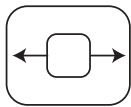


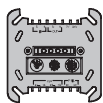
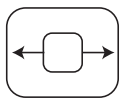




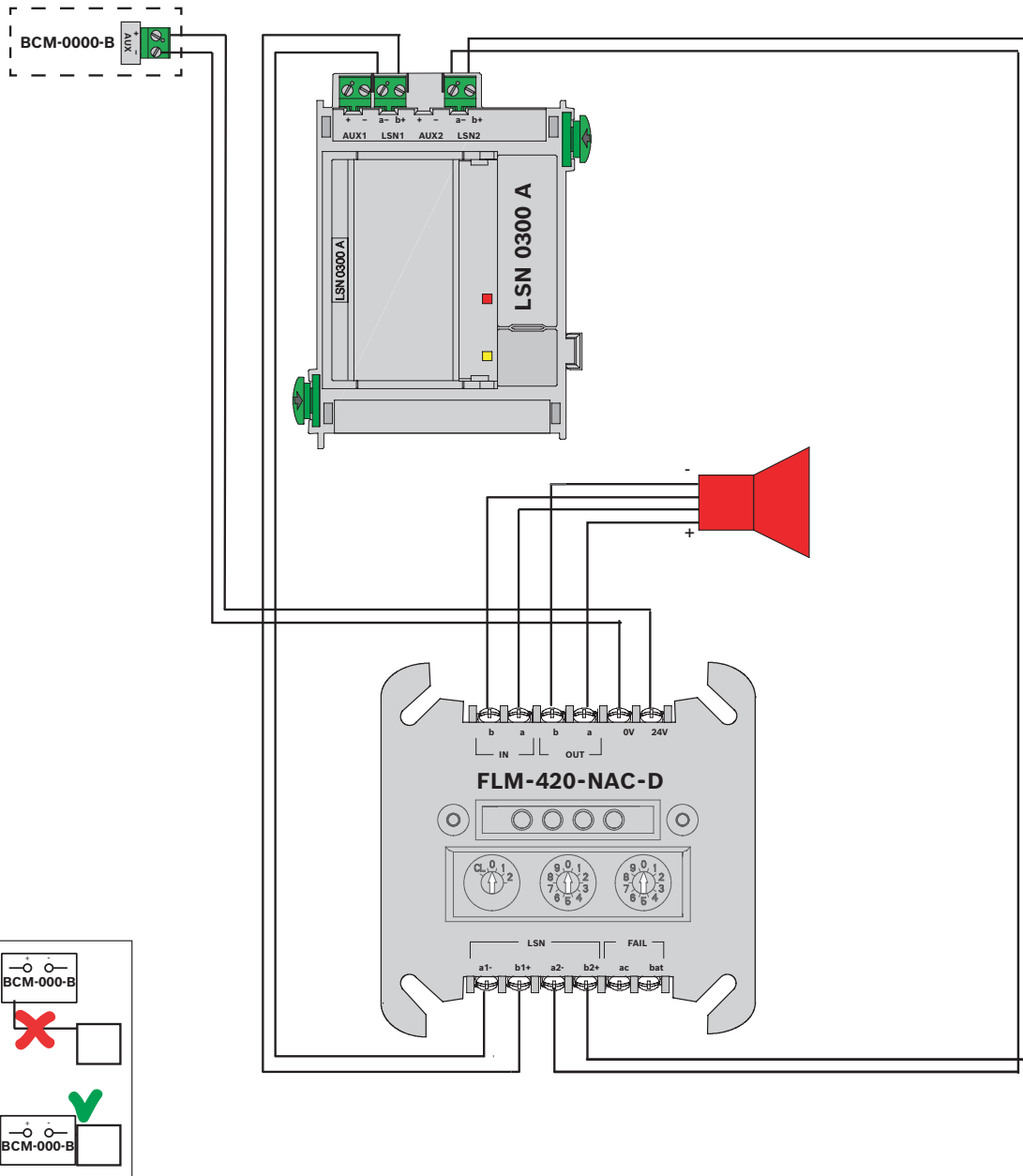
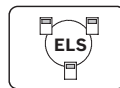
**FLM-420-0812-S**



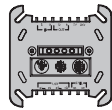
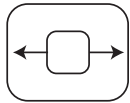




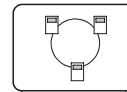
FLM-420-NAC-D/S



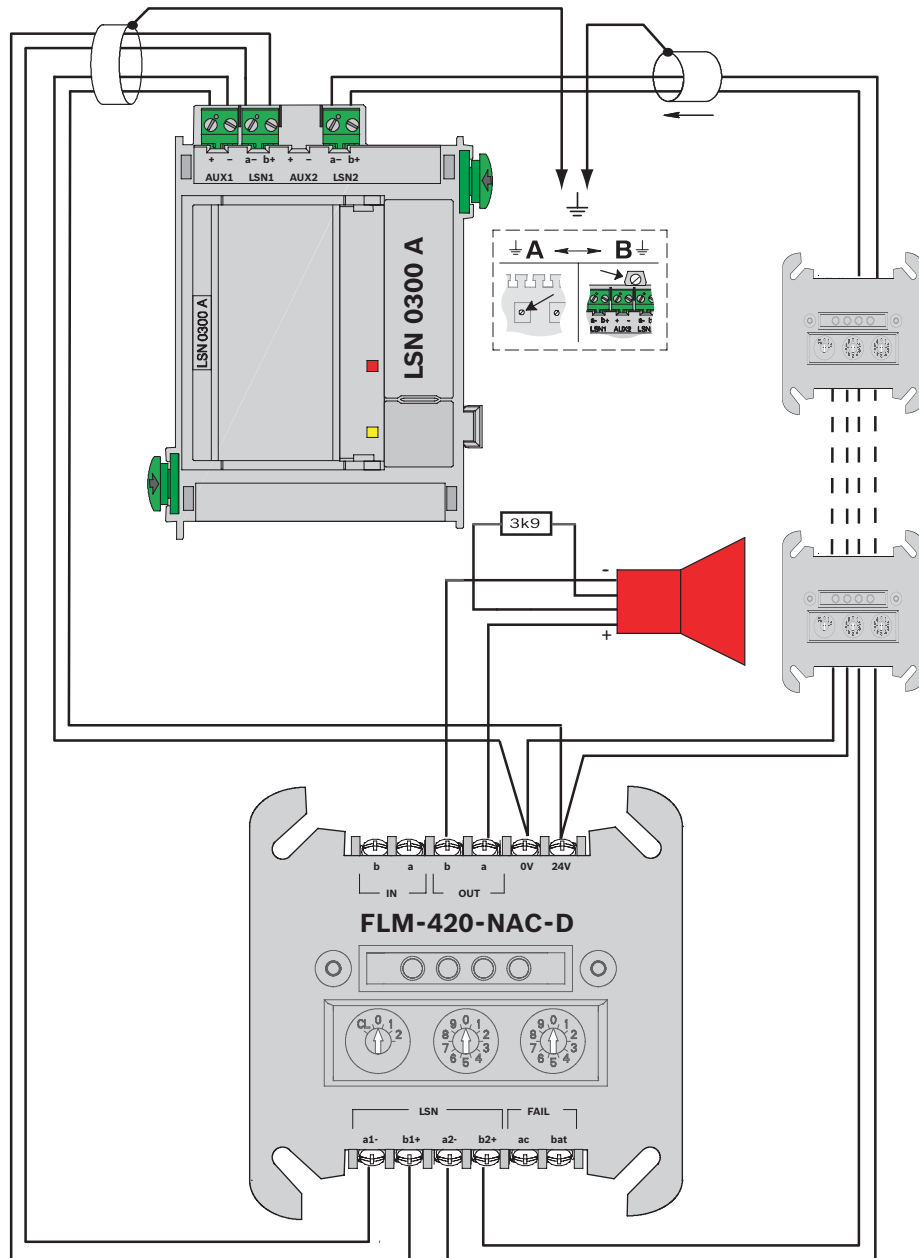


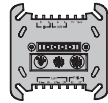
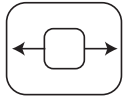


**FLM-420-NAC-D/S**

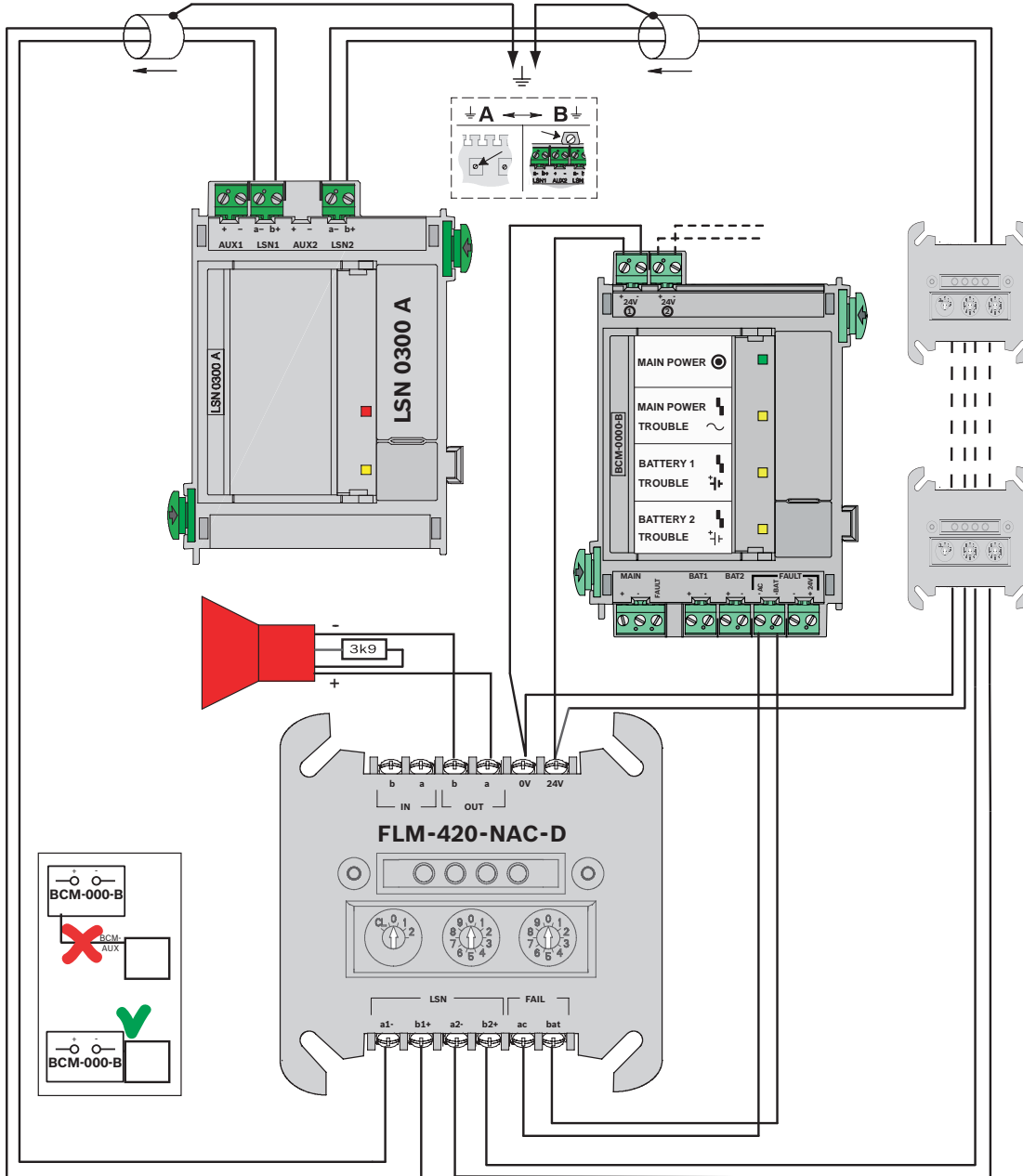
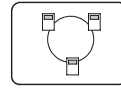


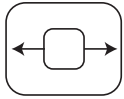
**EN 54-2**



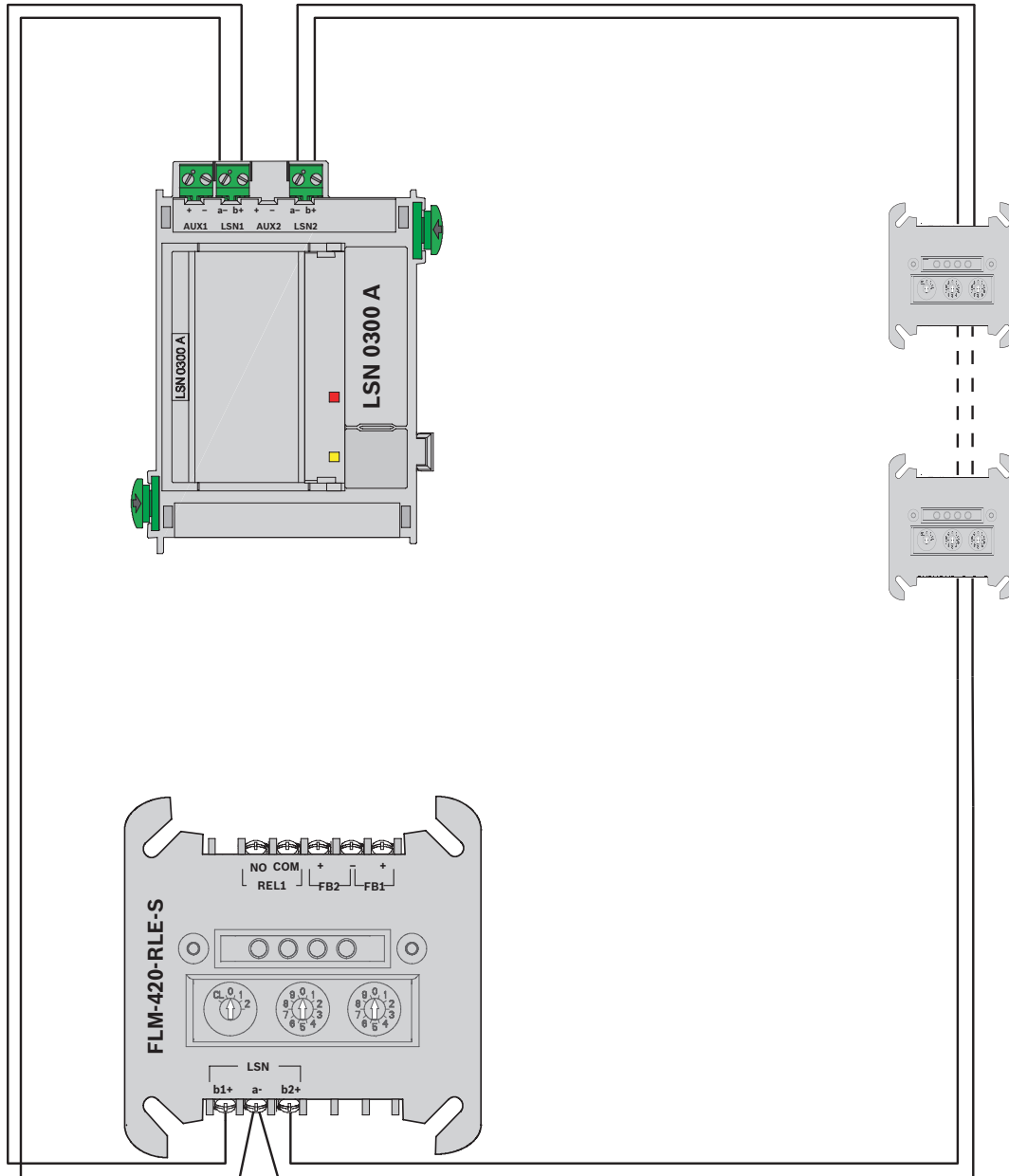
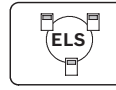


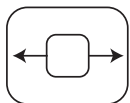
FLM-420-NAC-D/S



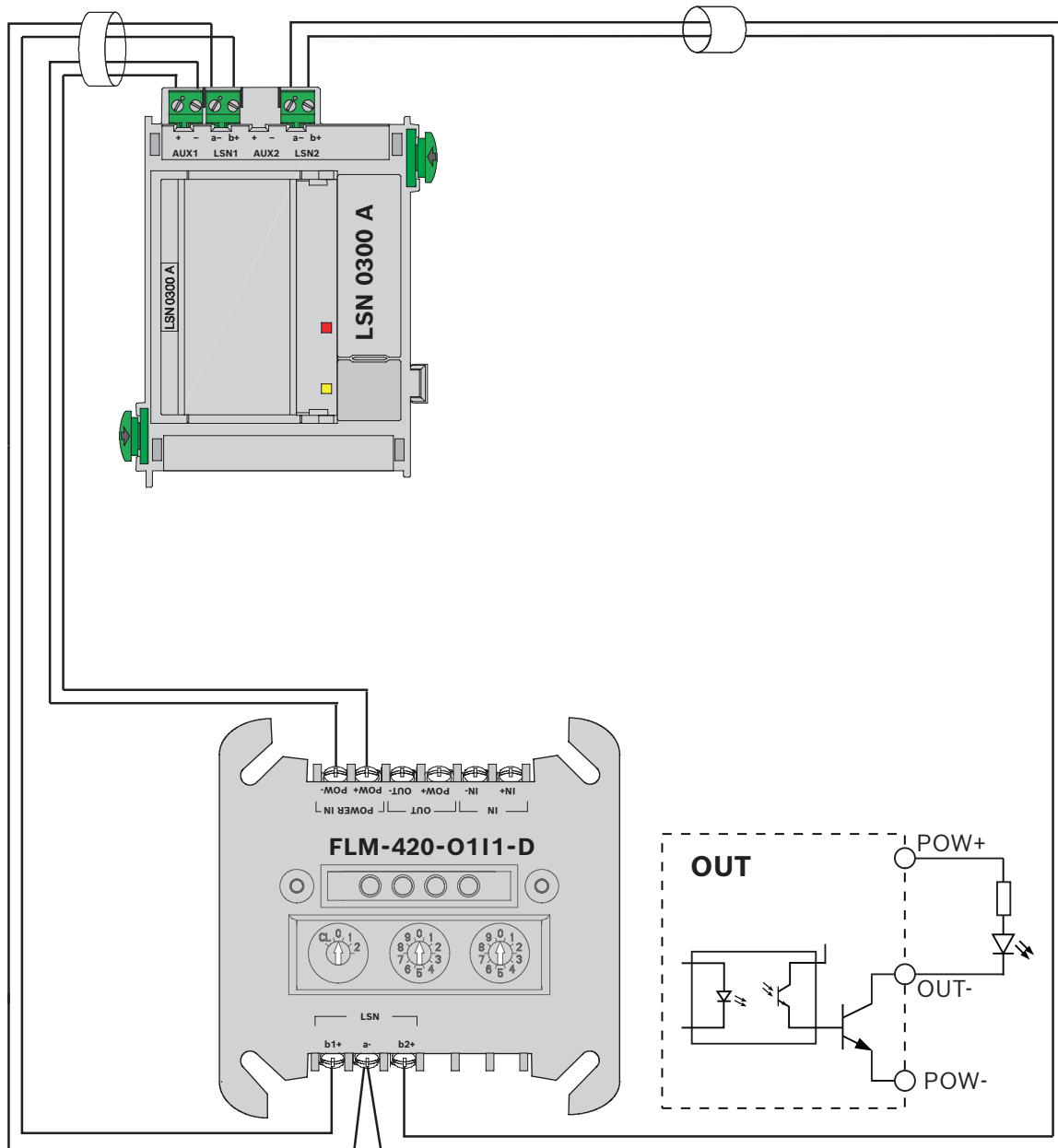
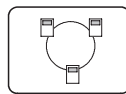


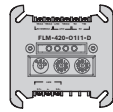
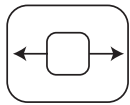
FLM-420-RLE-S



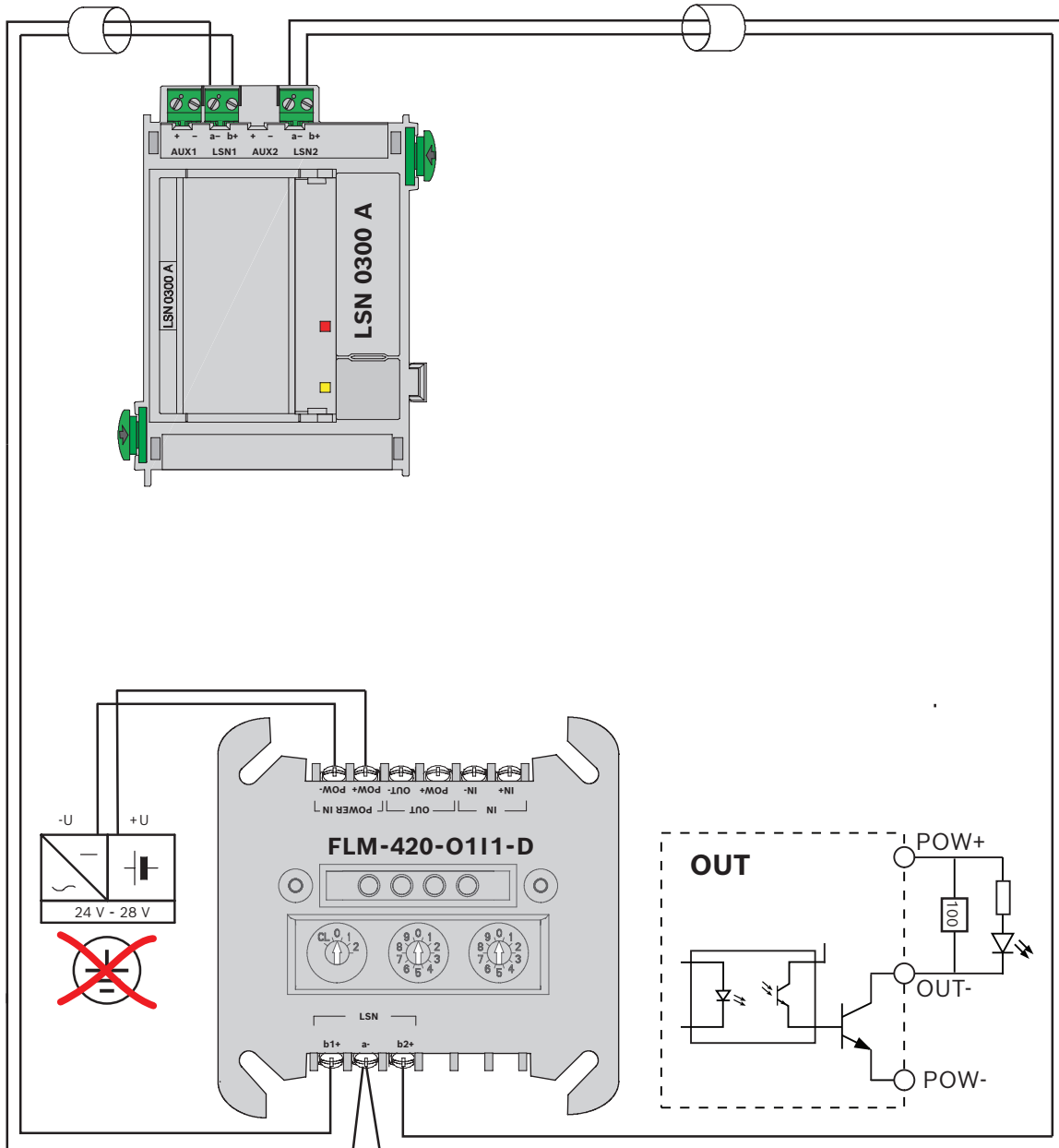
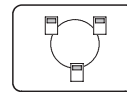


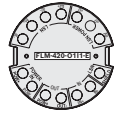
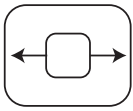
**FLM-420-O111-D**



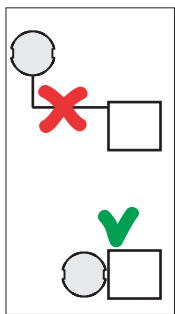
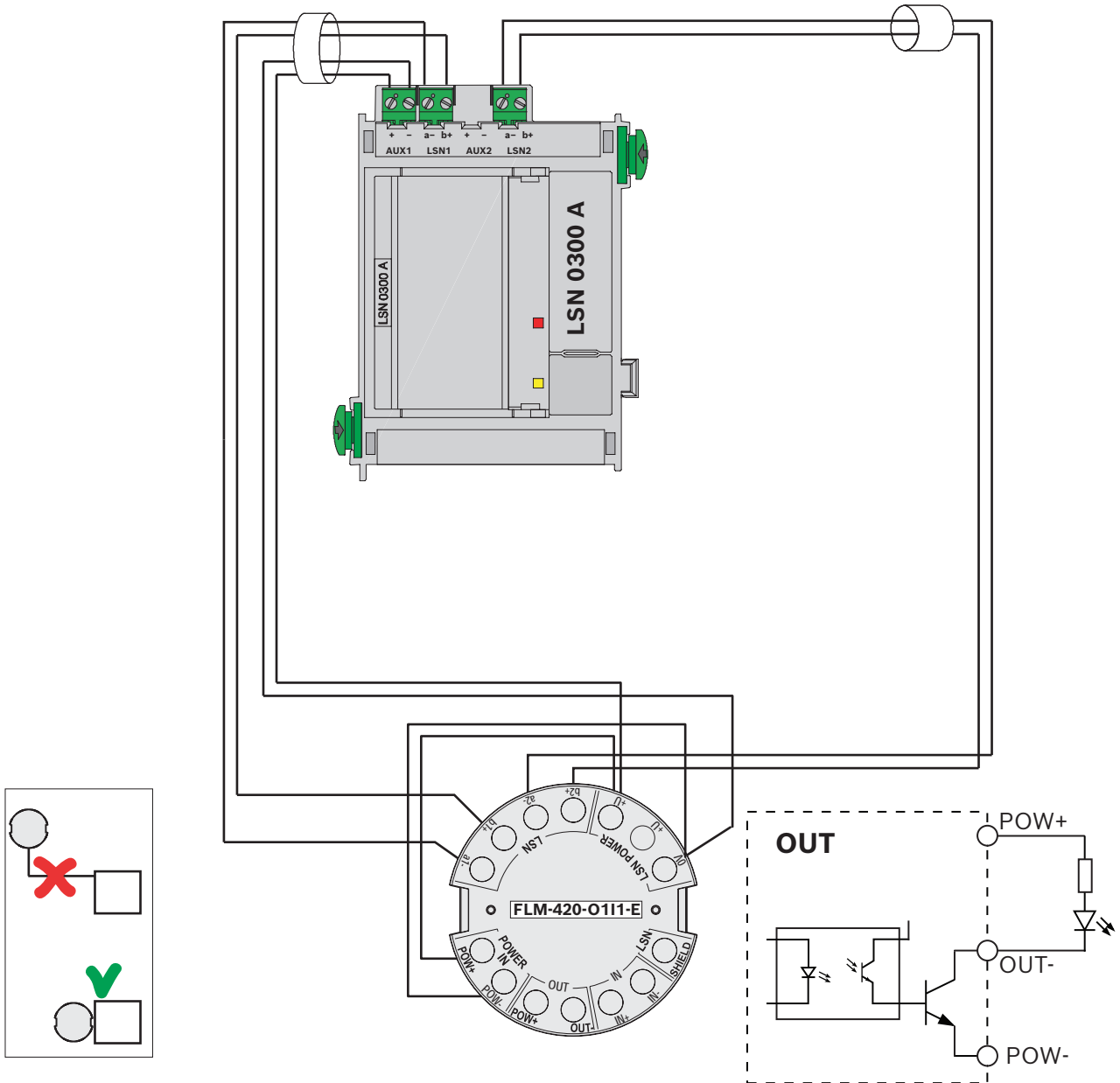
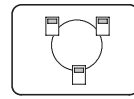


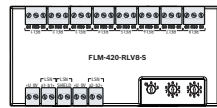
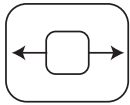
**FLM-420-O111-D**



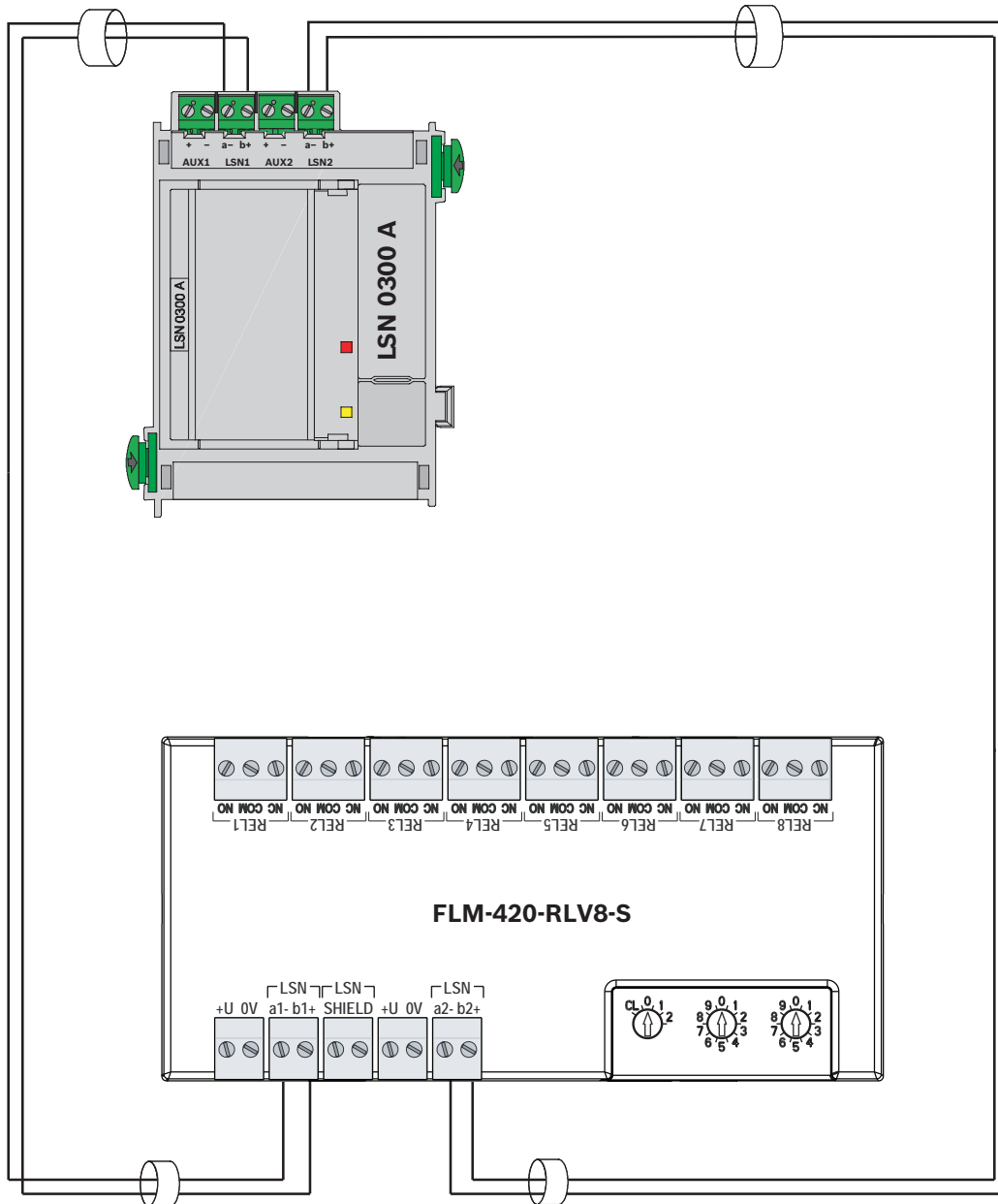
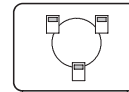


**FLM-420-O111-E**



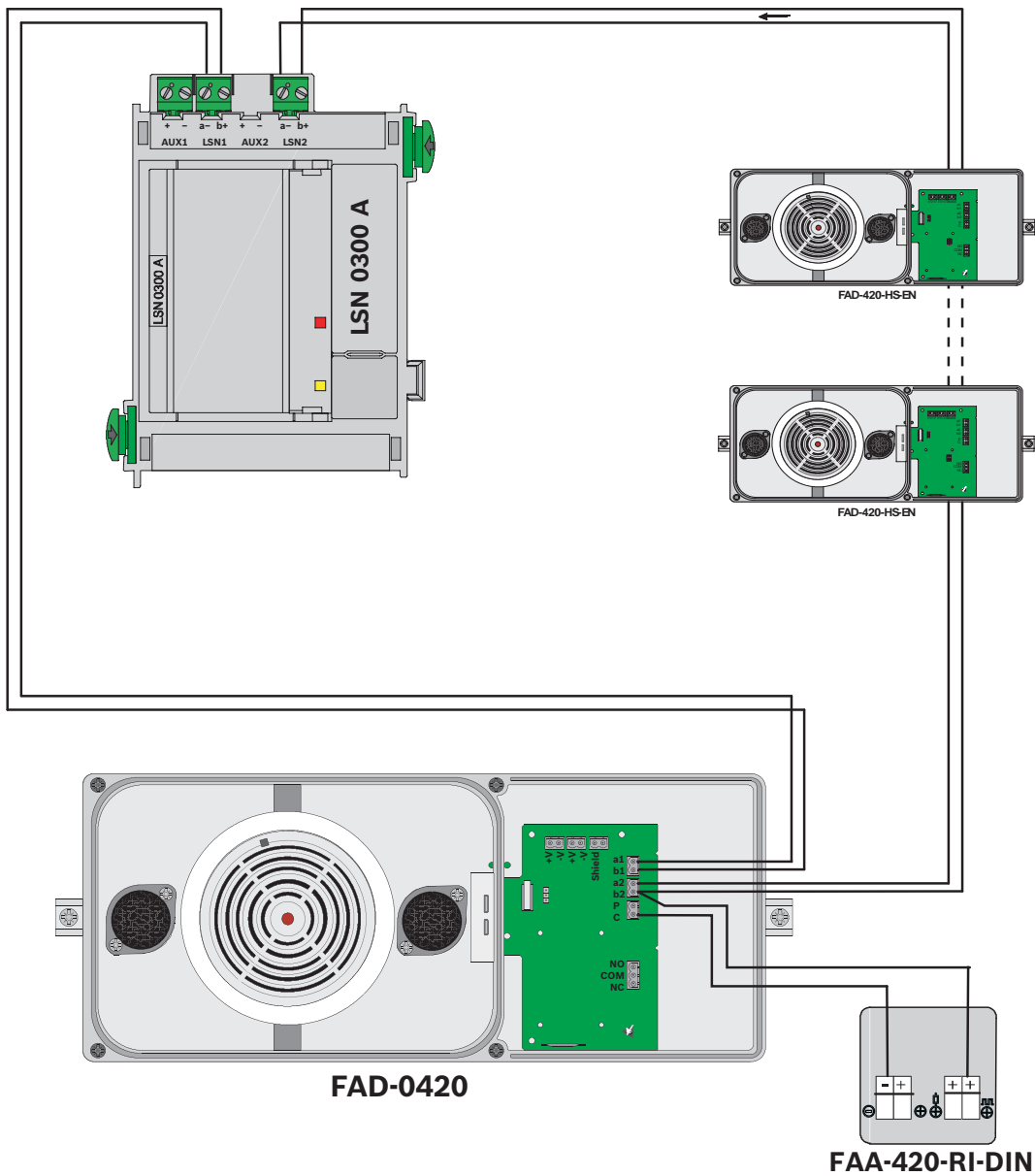


**FLM-420-RLV8-S**





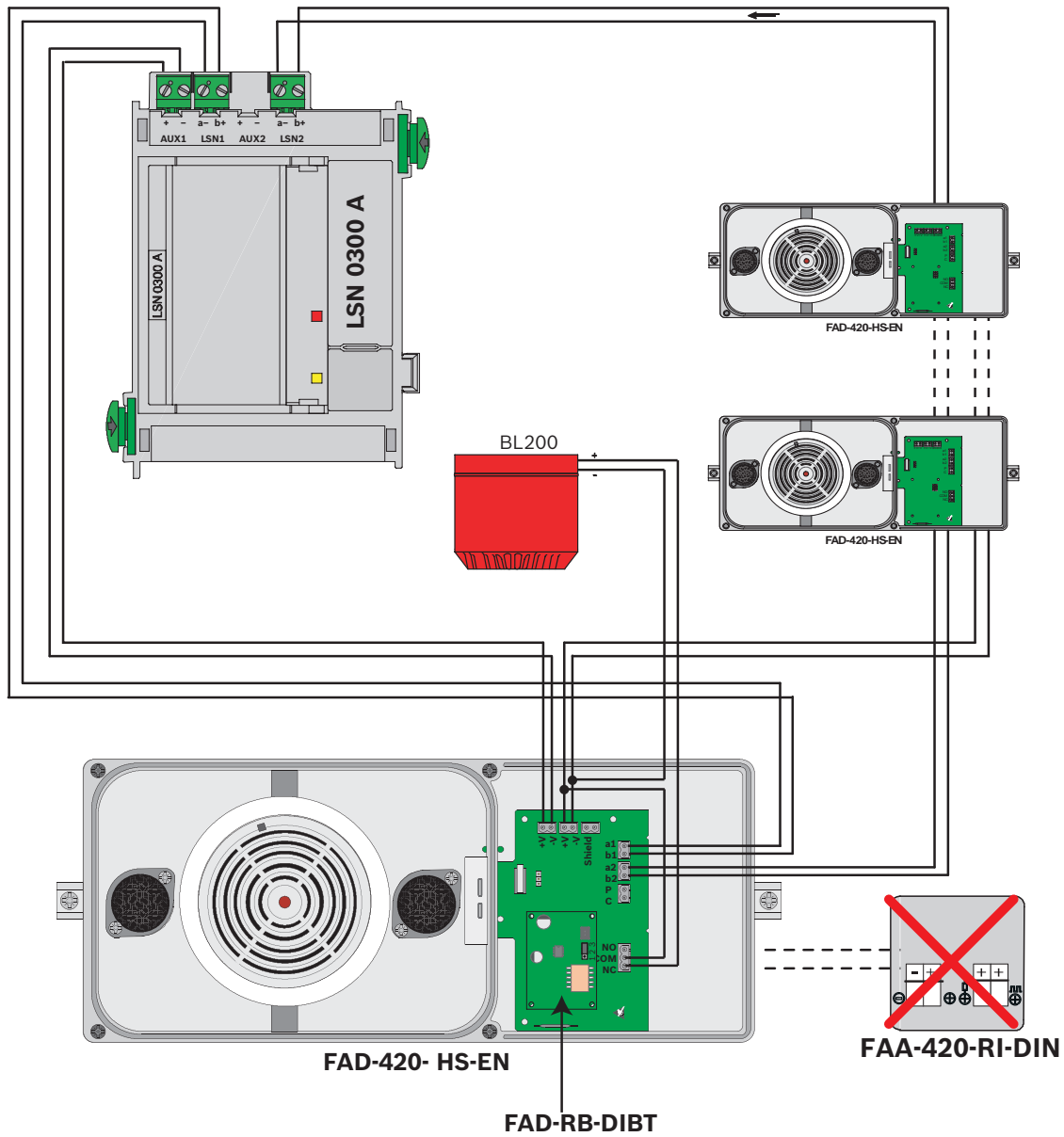
FAD-0420

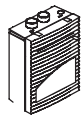




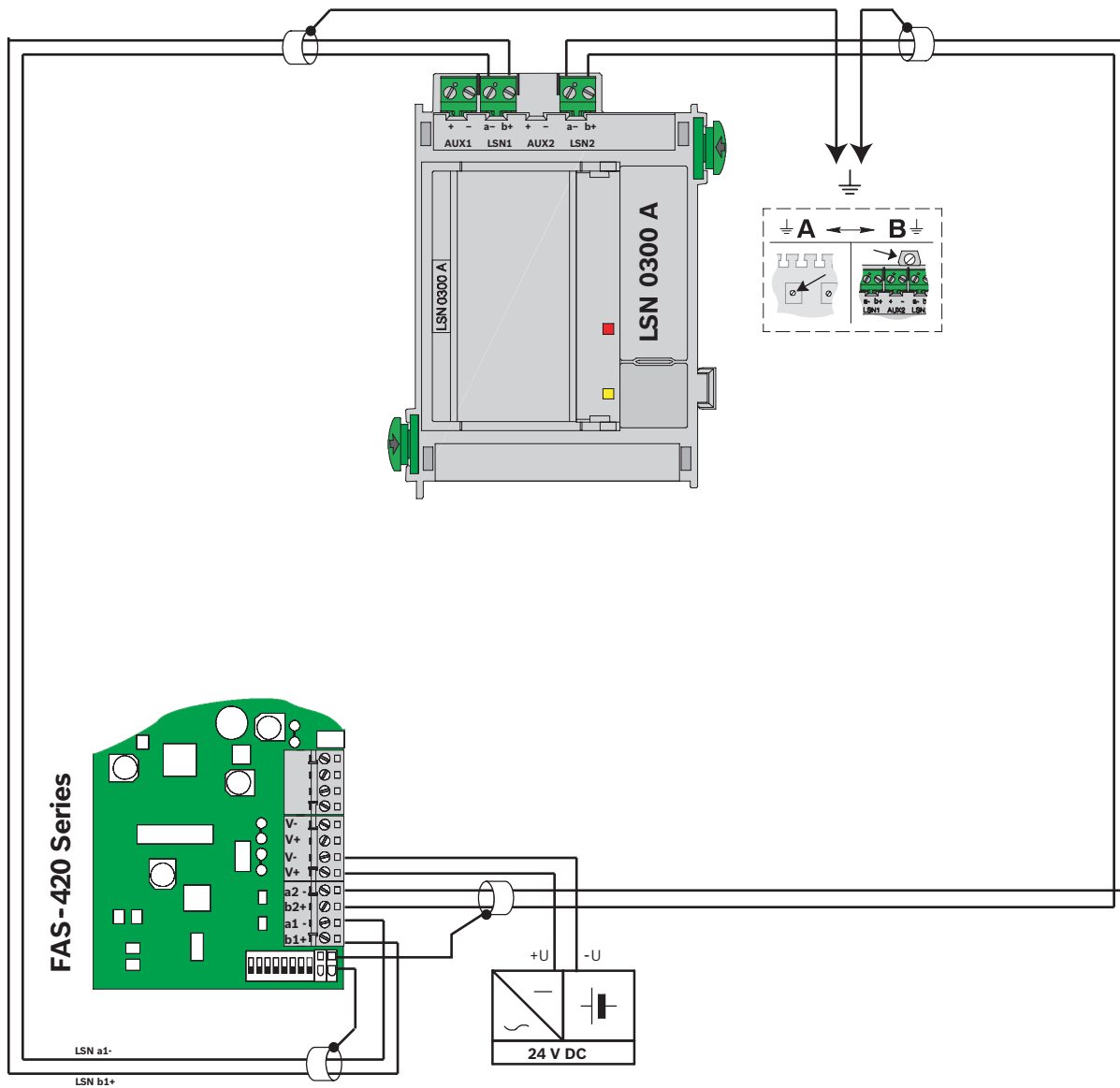


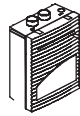
FAD-420-HS-EN



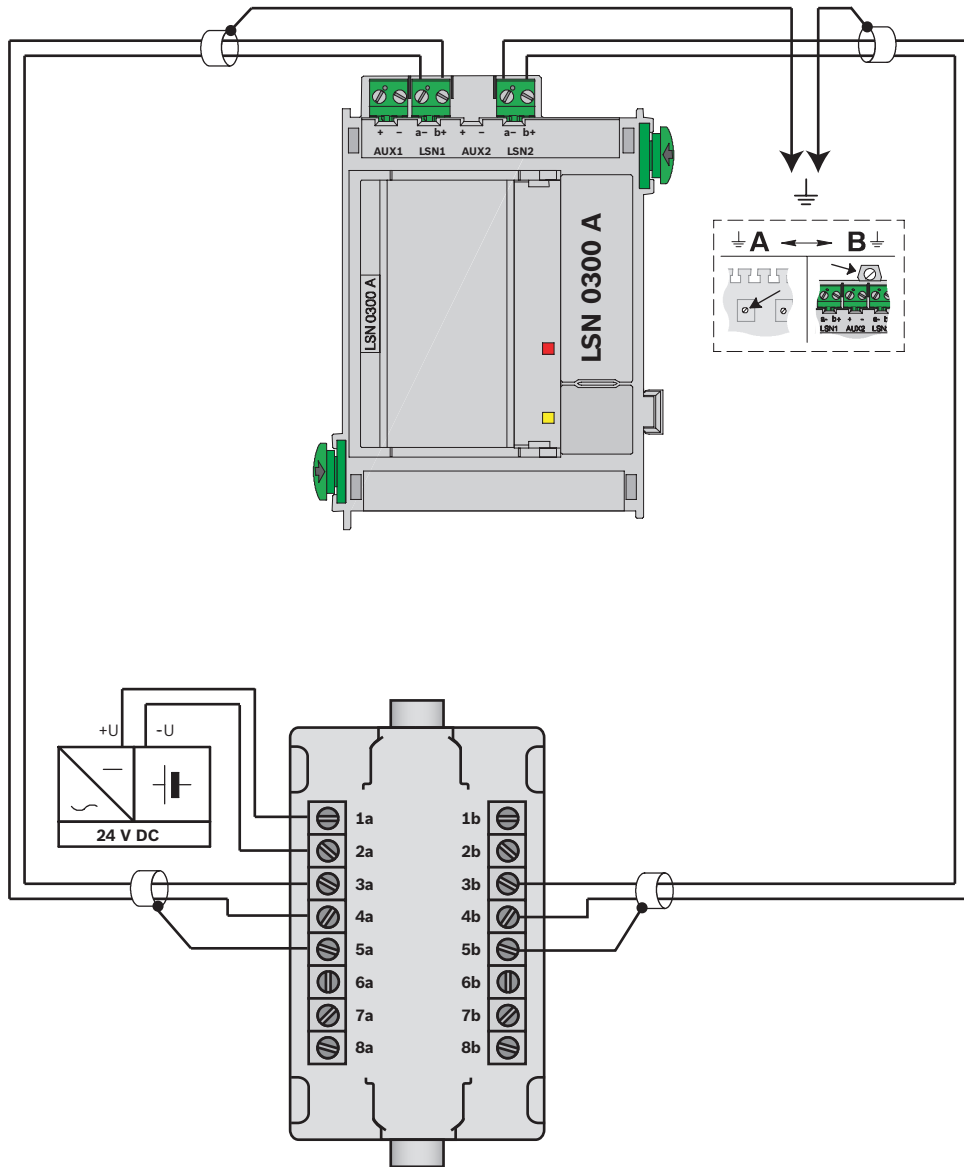


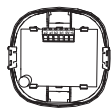
**FAS-420 Series**



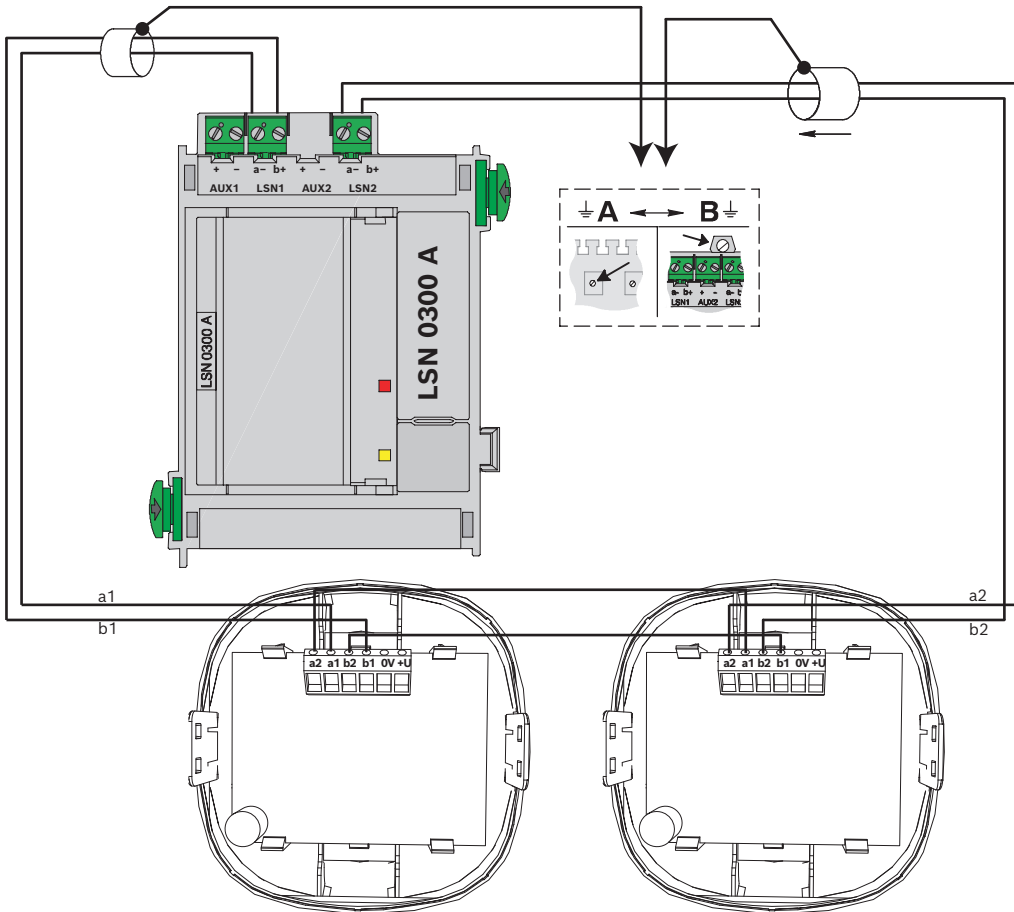
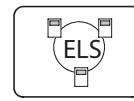


FAS-420-TM Series





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

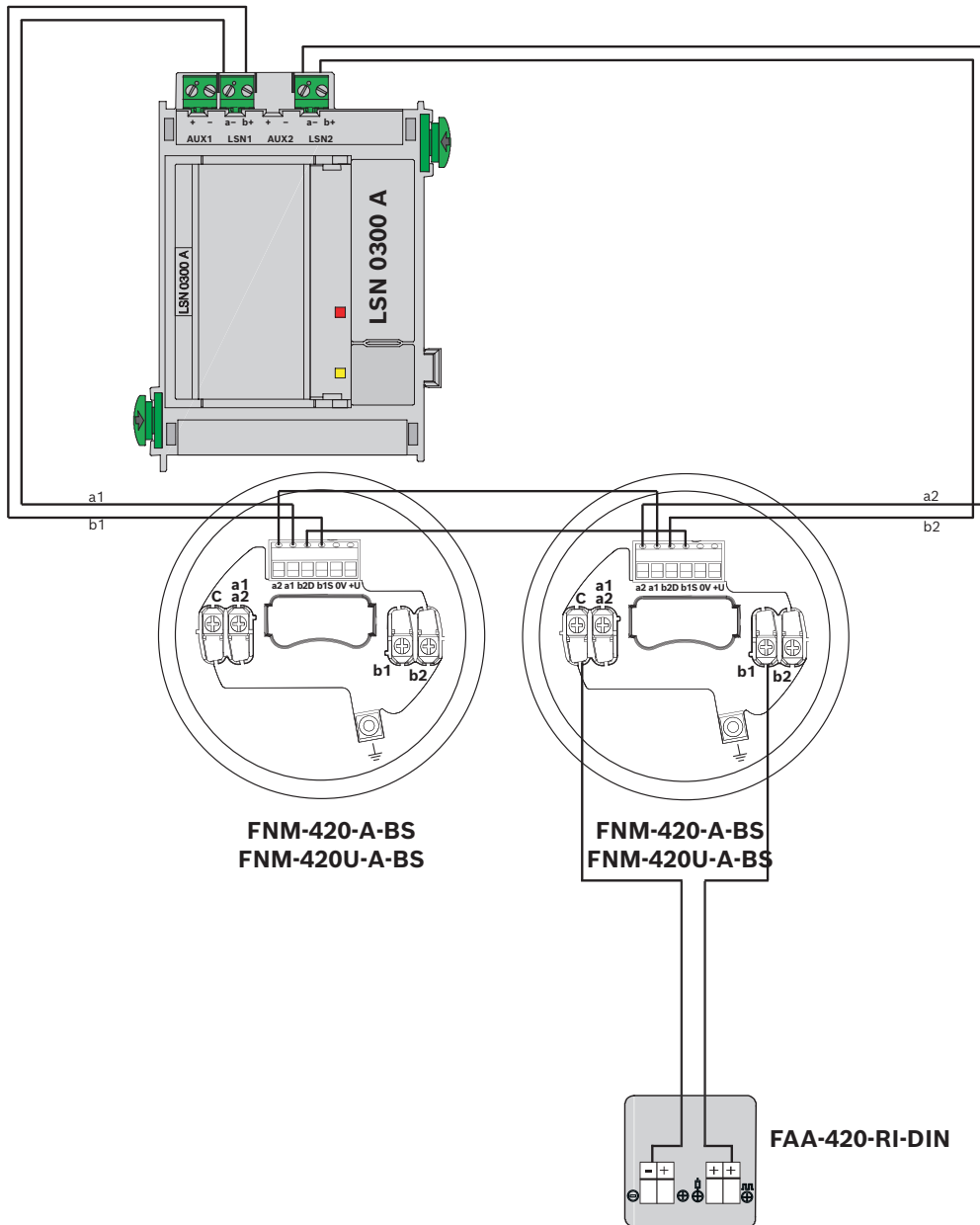
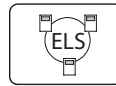


**FNM-420-A/-B**  
**FNM-420U-A/-B**  
**FNM-420V-A**

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



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



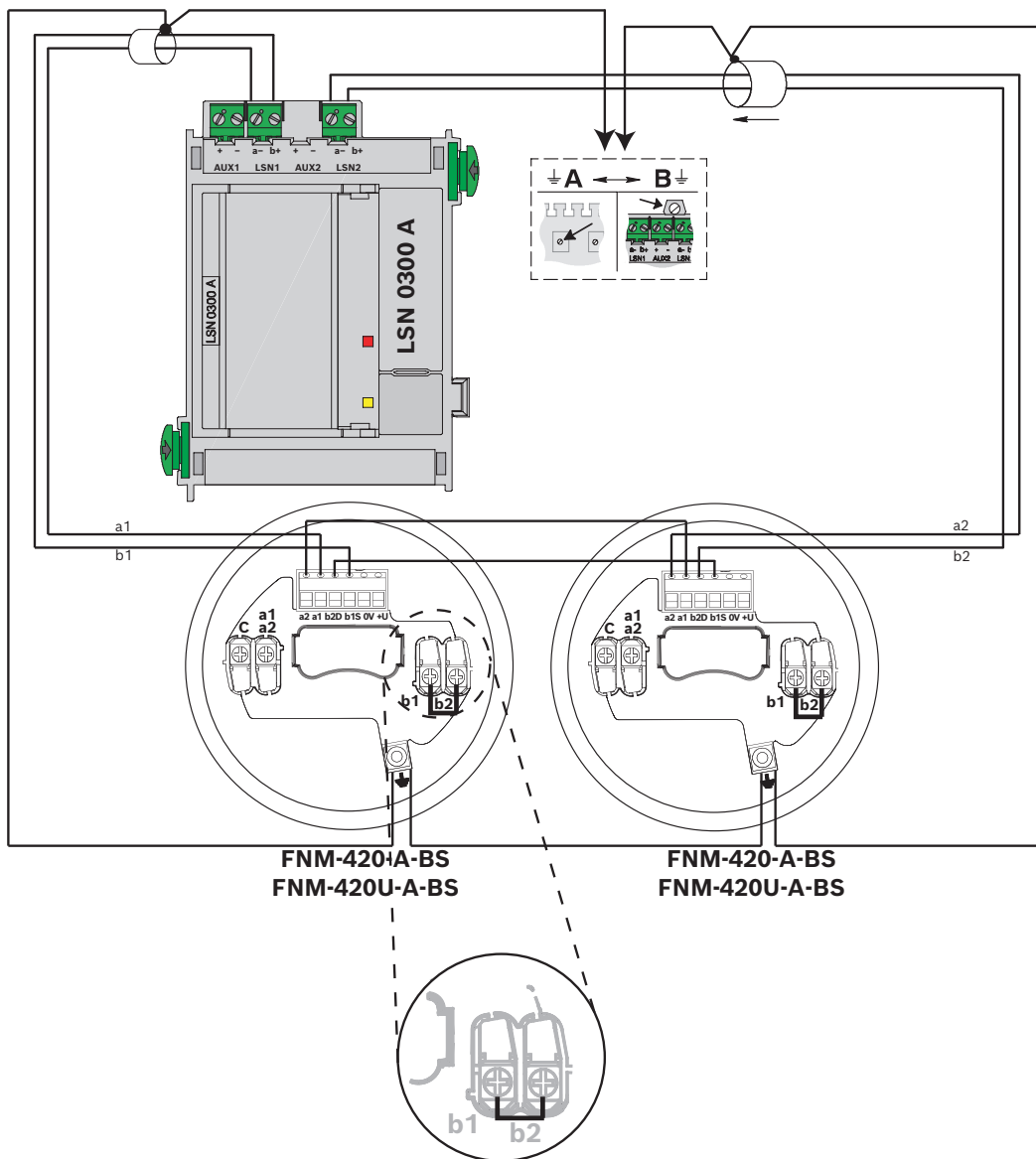
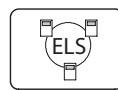
**FNM-420-A-BS**  
**FNM-420U-A-BS**

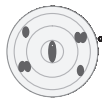
**FNM-420-A-BS**  
**FNM-420U-A-BS**

**FAA-420-RI-DIN**

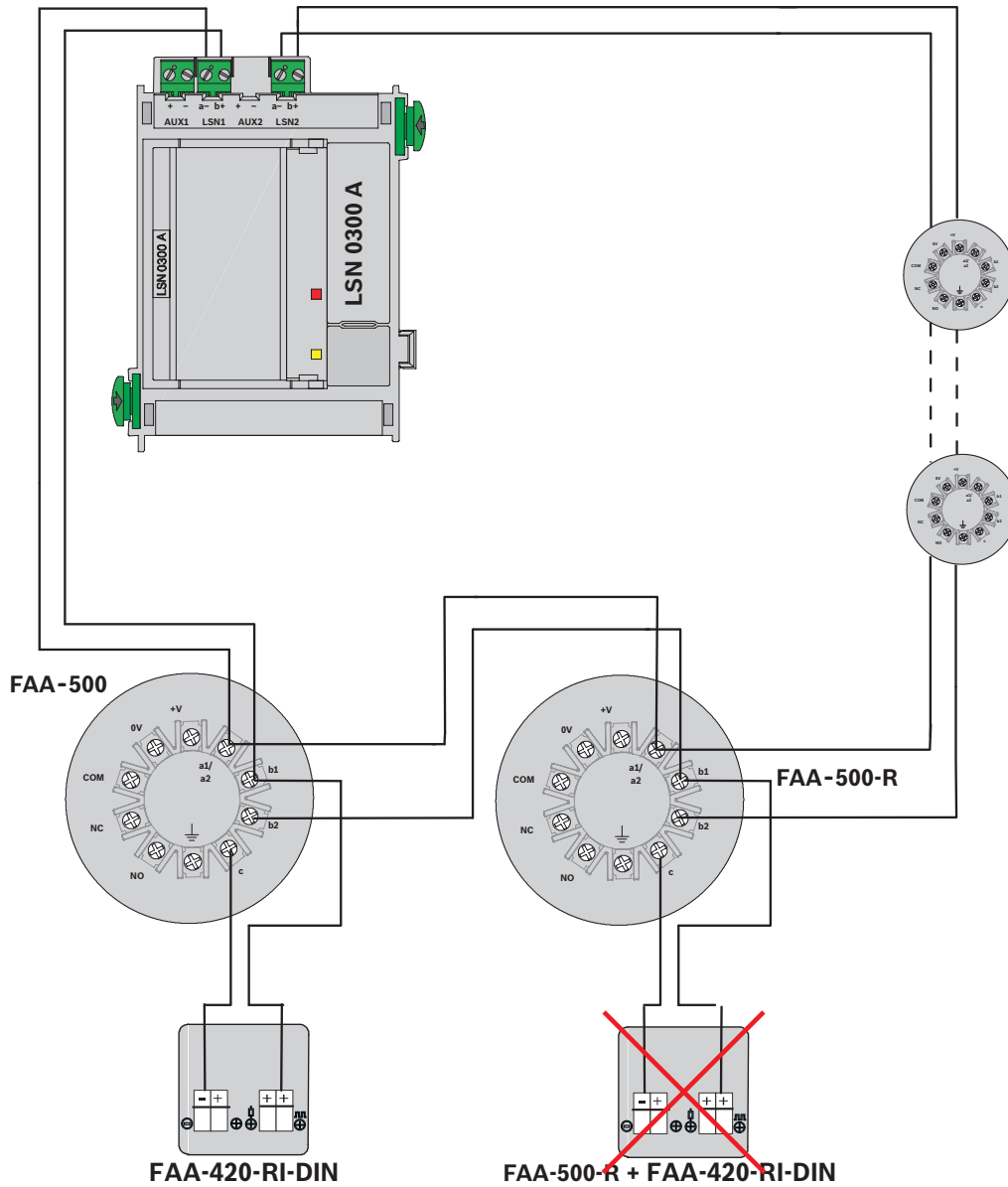
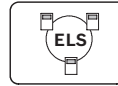


**FNM-420-A-BS**  
**FNM-420U-A-BS**



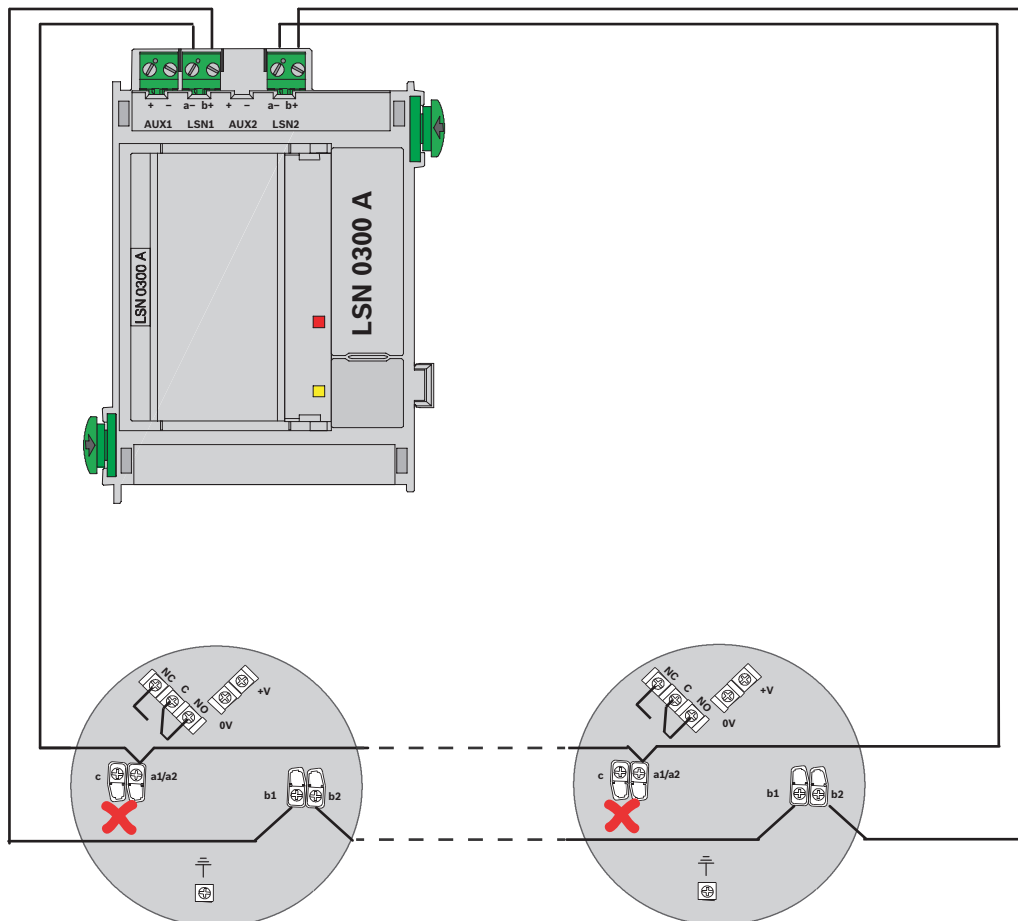
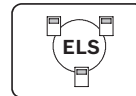


FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P

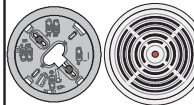




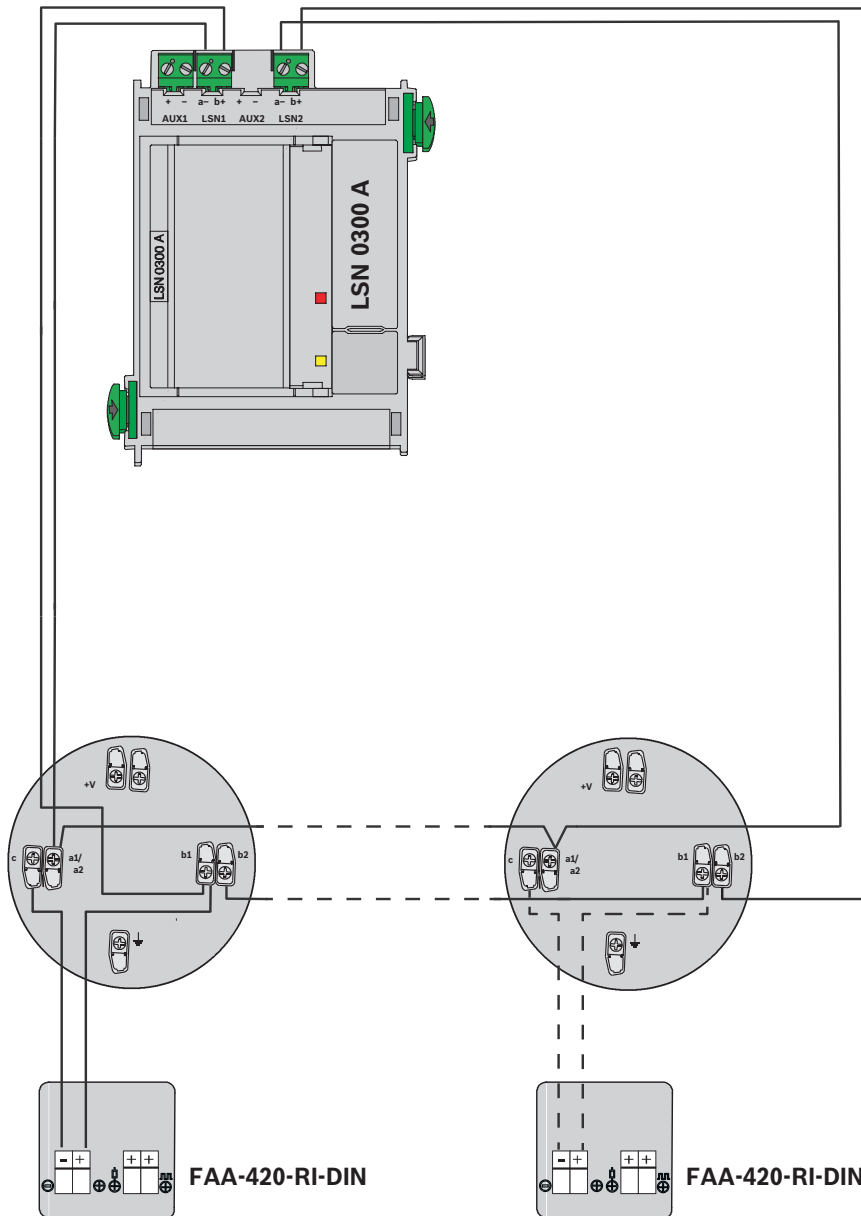
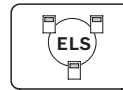
**FAA-MSR-420**  
**FAP-425-O, FAP-425-O-R**  
**FAP-425-OT, FAP-425-OT-R**  
**FAP-425-T-R**  
**FAP-425-DO-R, FAP-425-DOT-R**  
**FAP-425-DOTC-R, FAP-425-DOTCO-R**

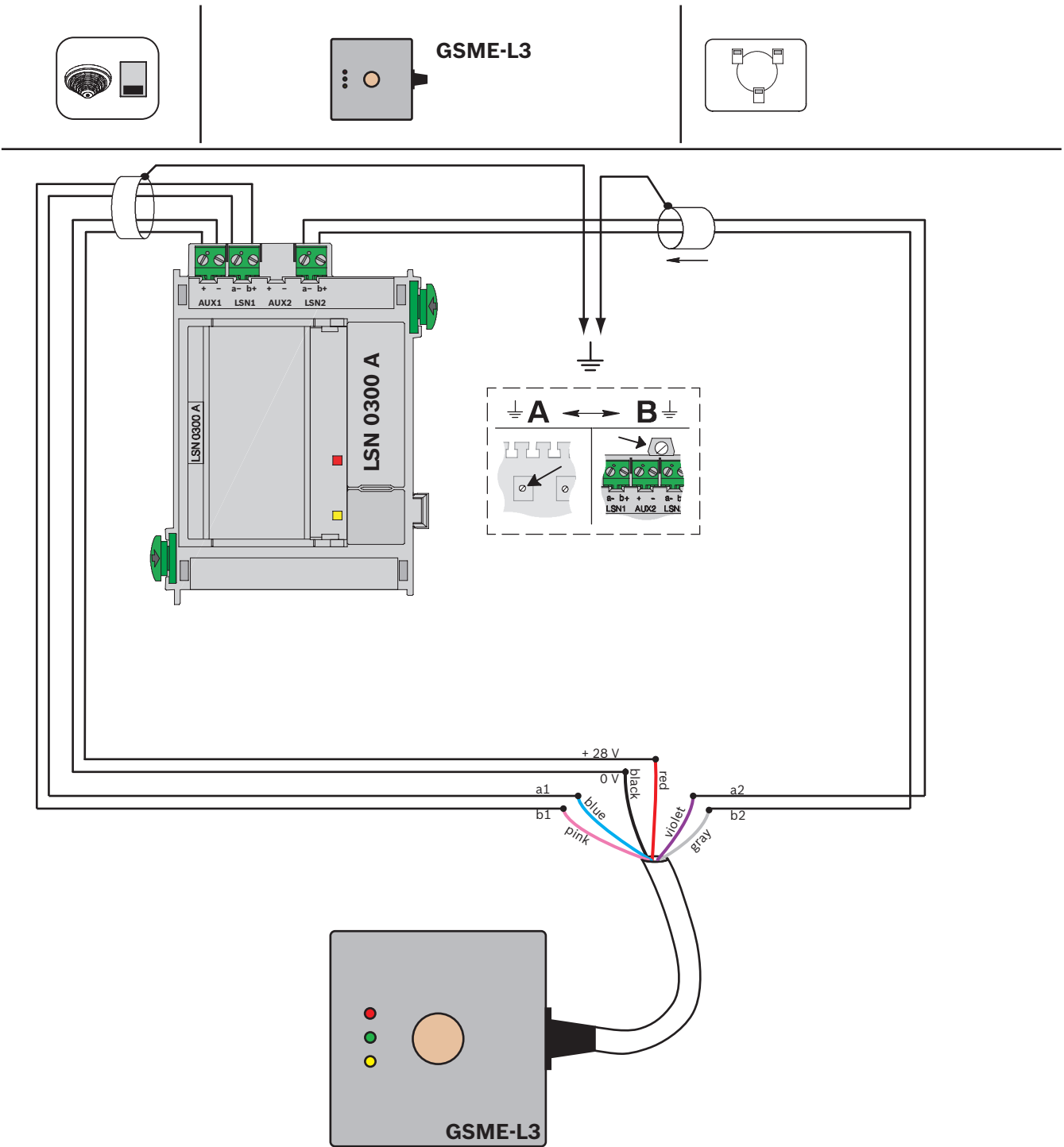


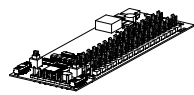




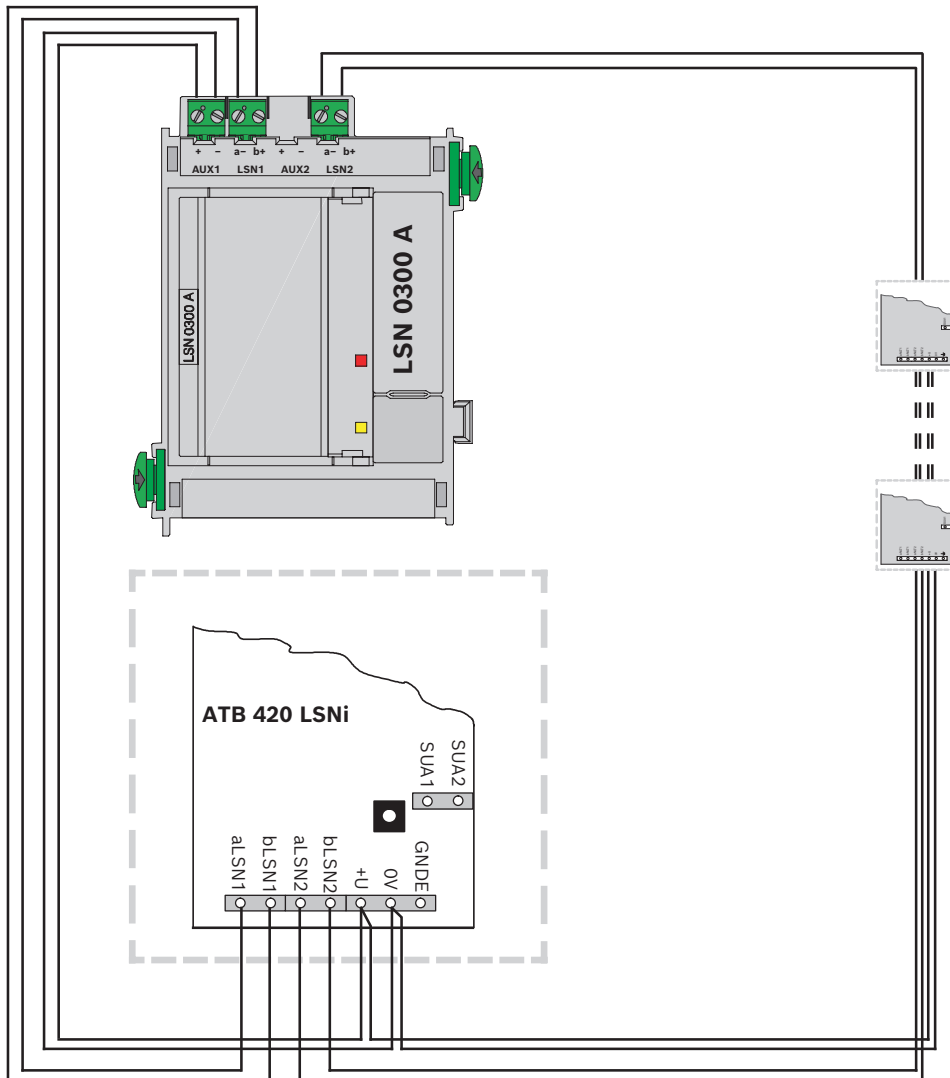
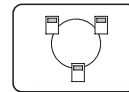
MS 400, MS 400 B  
 FAP-425-O, FAP-425-O-R  
 FAP-425-OT, FAP-425-OT-R  
 FAP-425-T-R  
 FAP-425-DO-R, FAP-425-DOT-R  
 FAP-425-DOTC-R, FAP-425-DOTCO-R





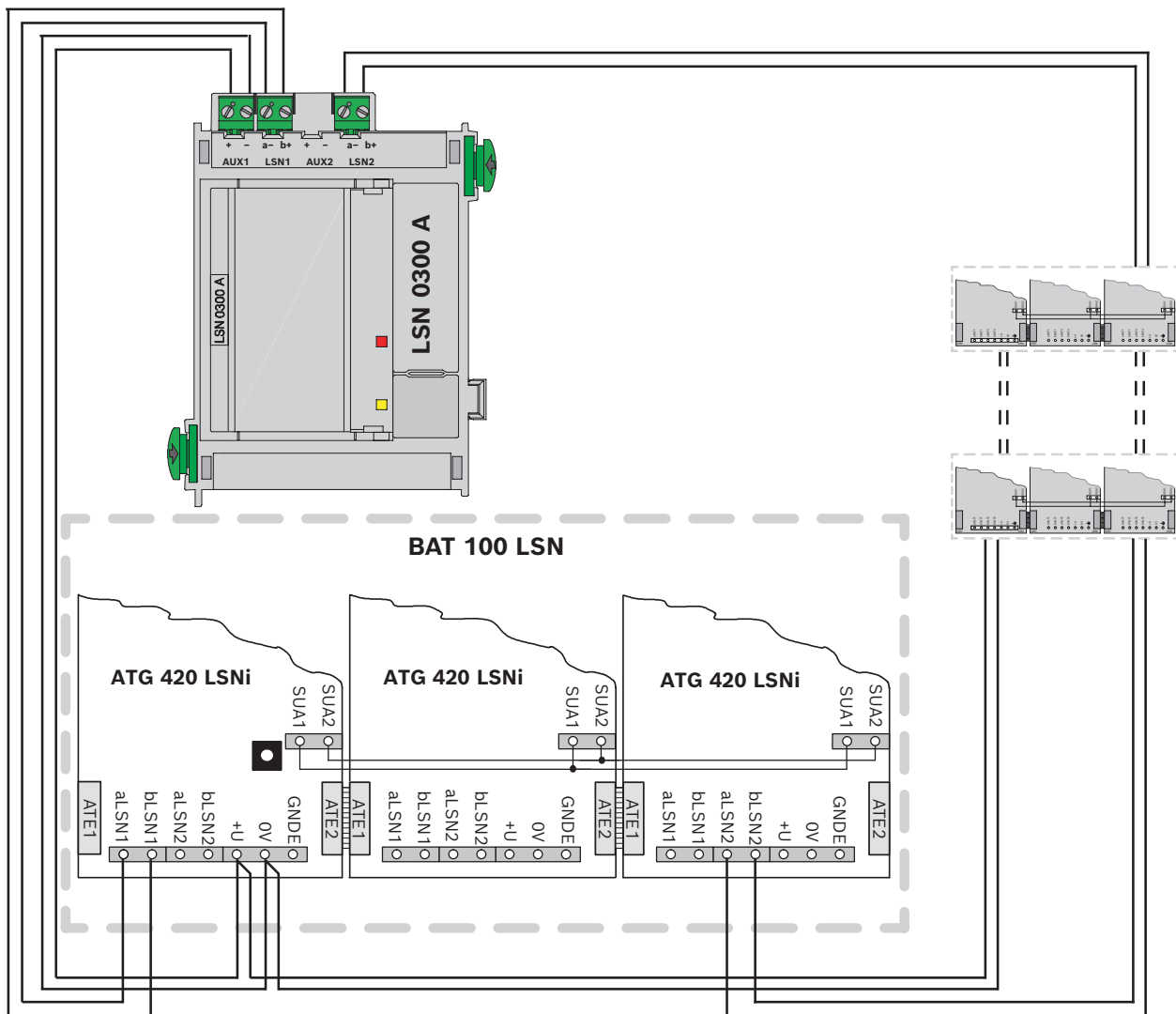
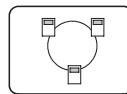


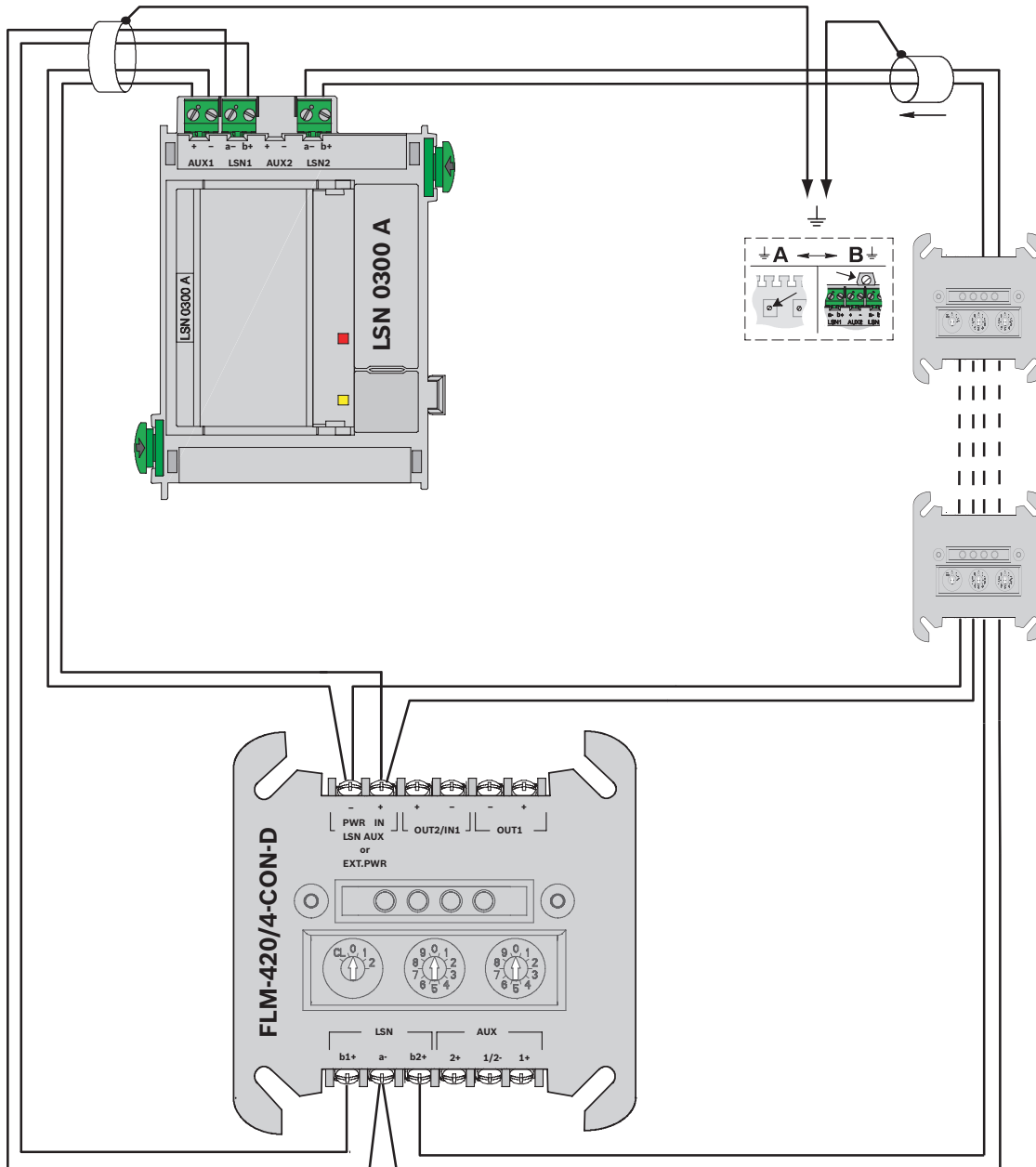
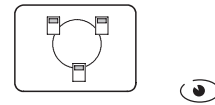
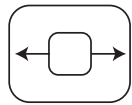
ATB 420 LSNi





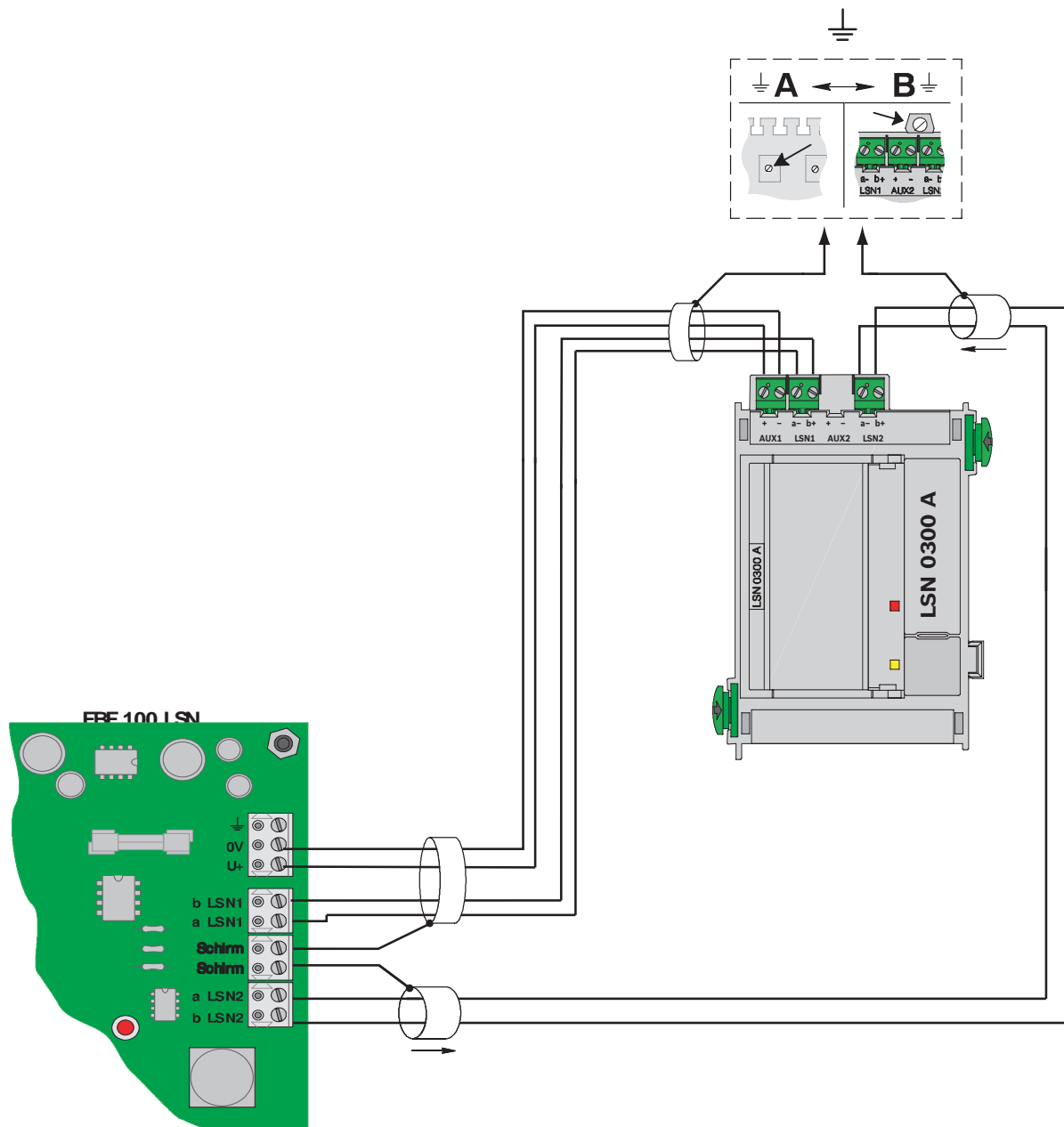
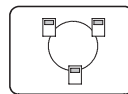
**BAT 100 LSN**  
**ATG 420 LSNi**

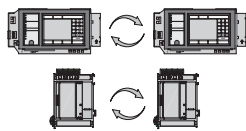




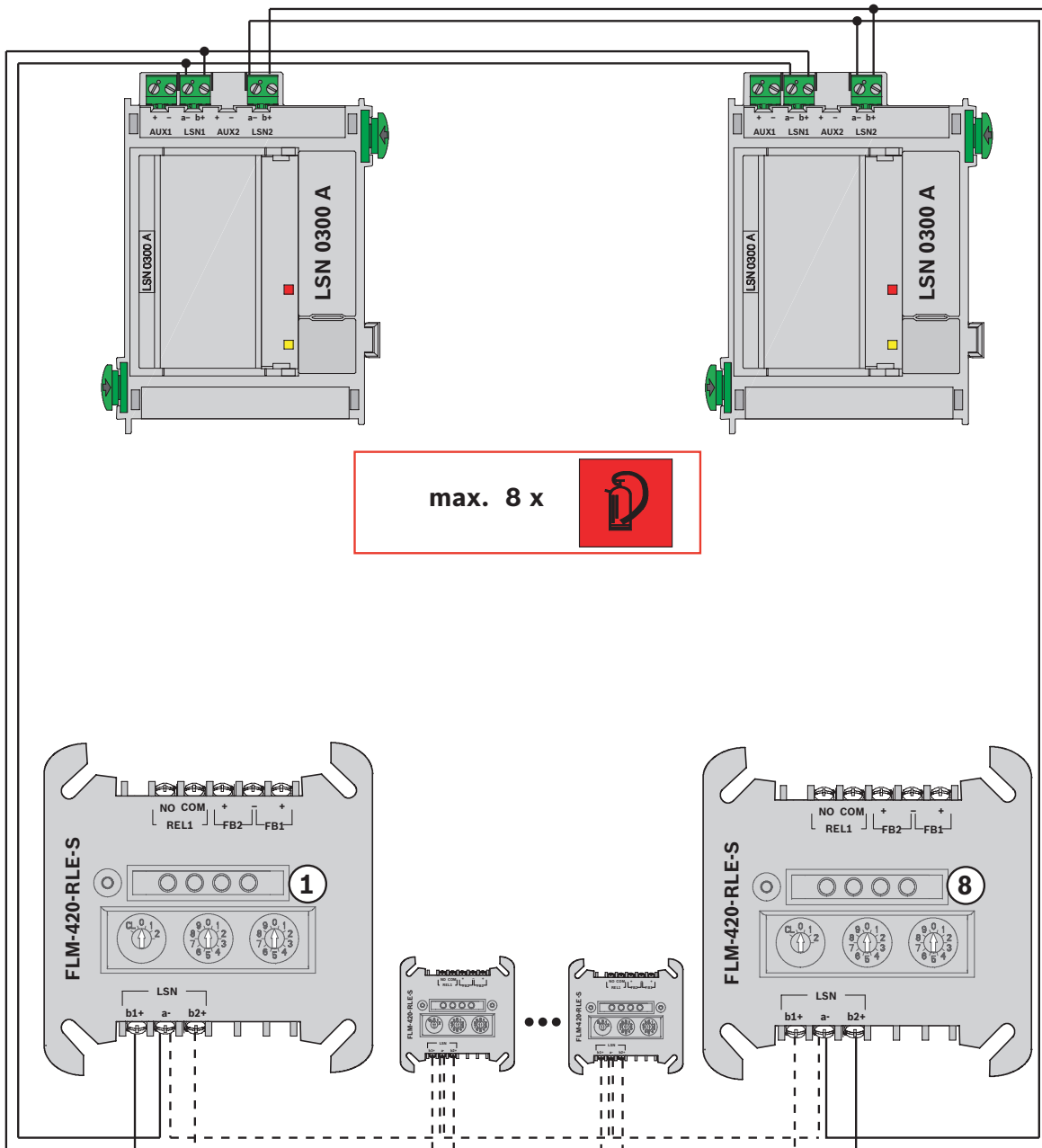
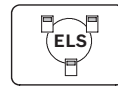


FBF 100 LSN



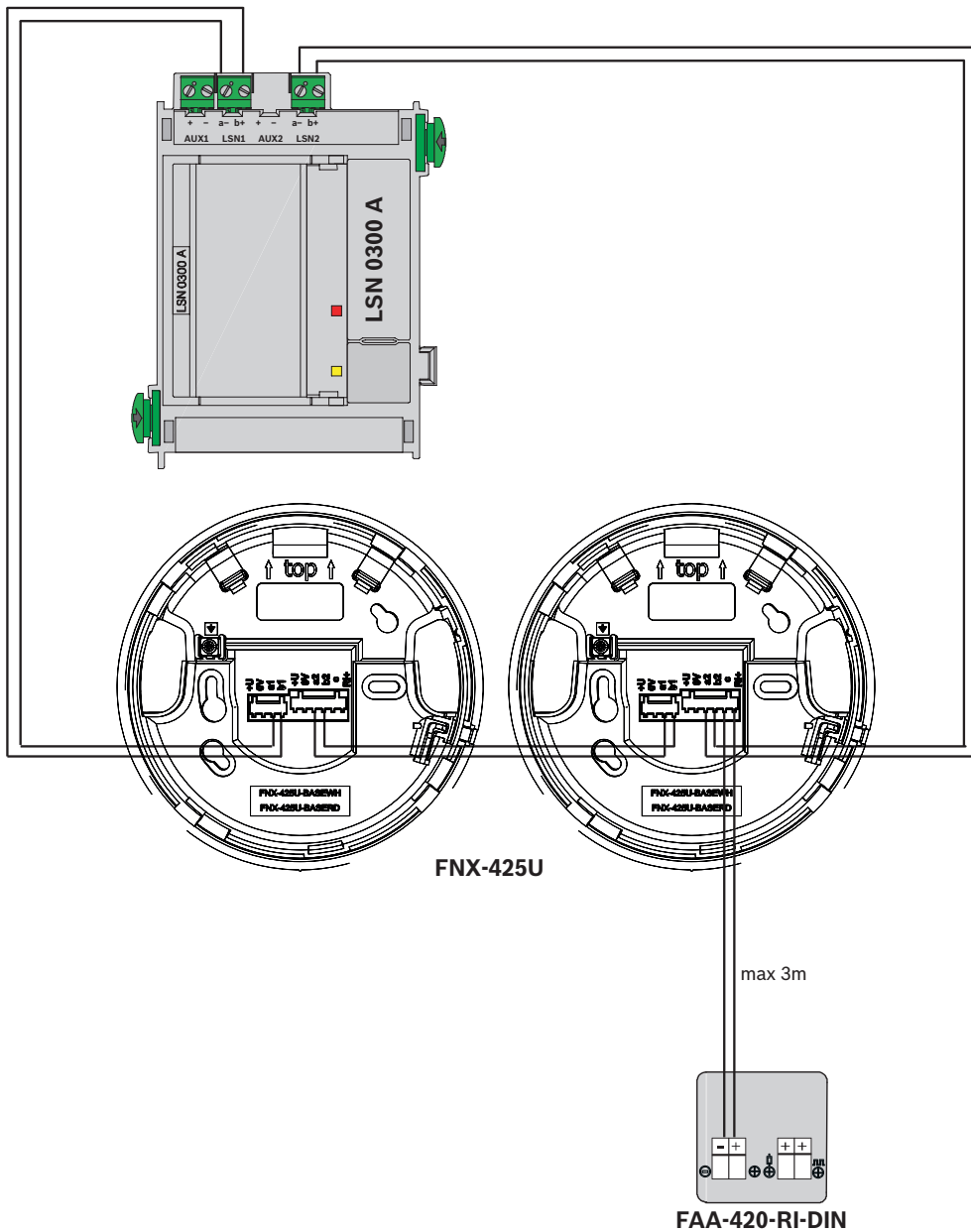
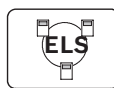


FLM-420-RLE-S





**FNX-425U-WFWH**  
**FNX-425U-RFWH**  
**FNX-425U-WFRD**  
**FNX-425U-RFRD**

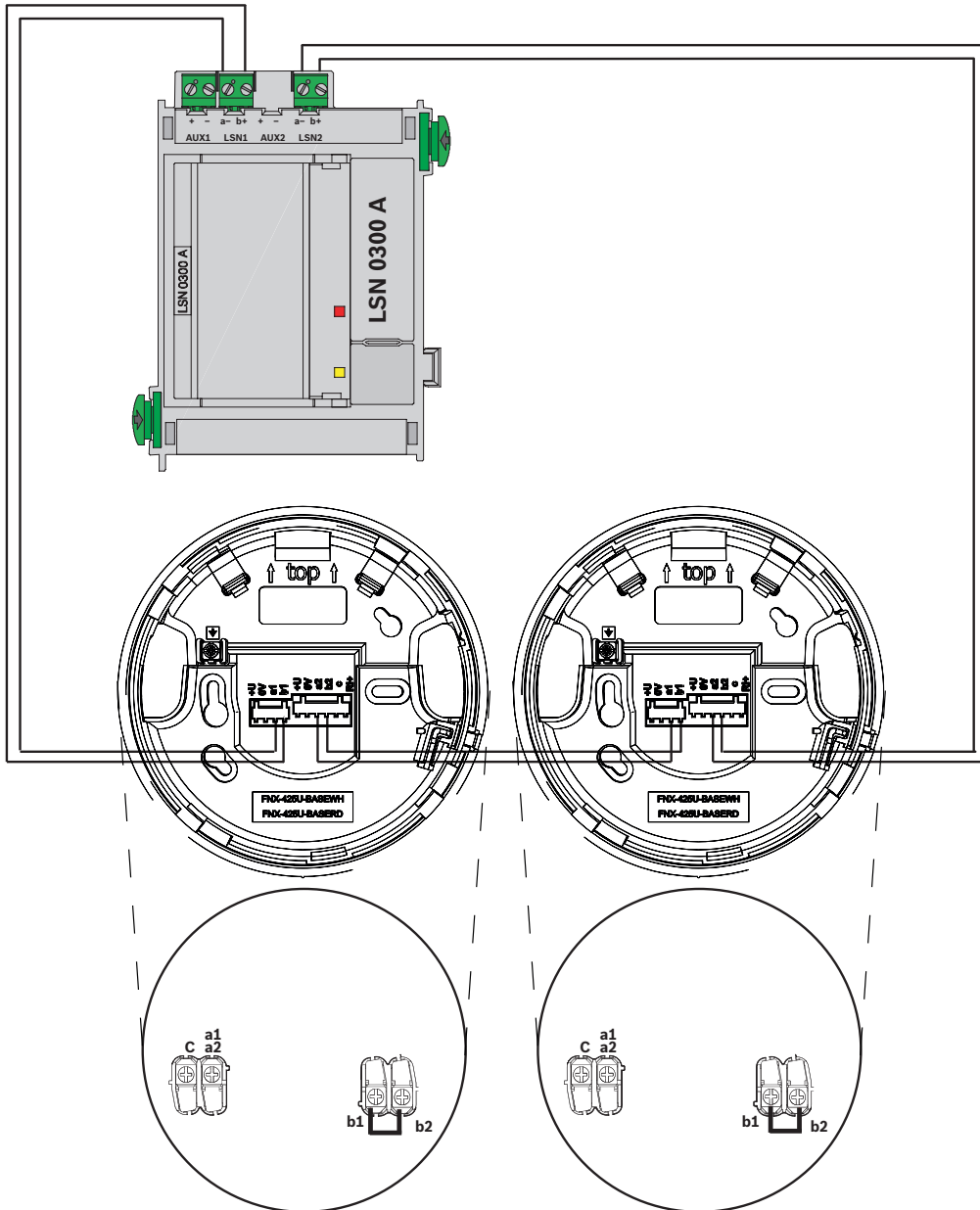
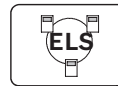


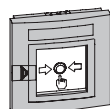
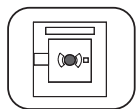




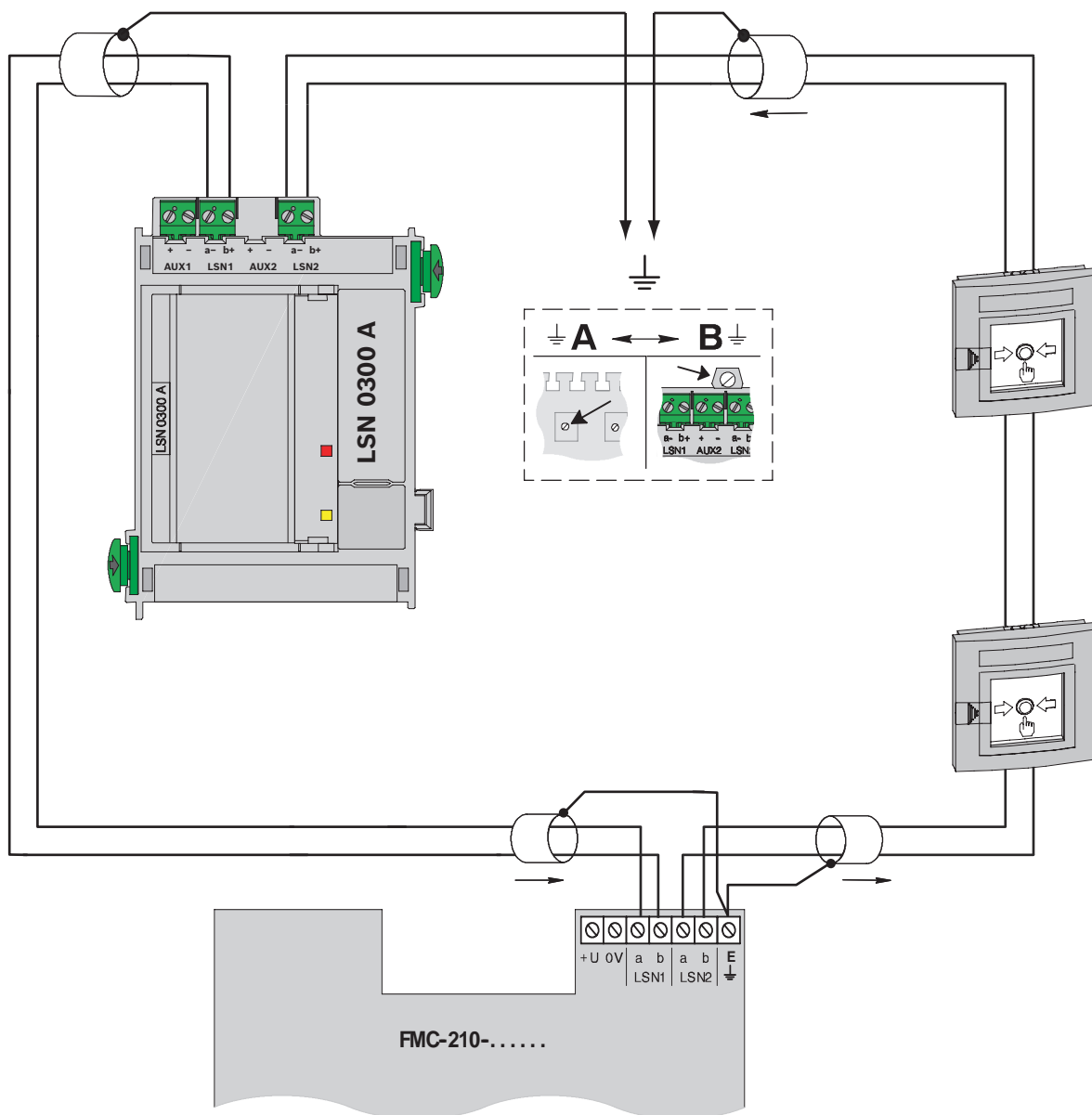
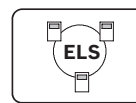
FNX-425U-WFWH  
 FNX-425U-RFWH  
 FNX-425U-WFRD  
 FNX-425U-RFRD

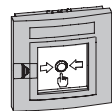
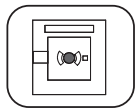
+ FNX-425U-COVWH  
 FNX-425U-COVRD



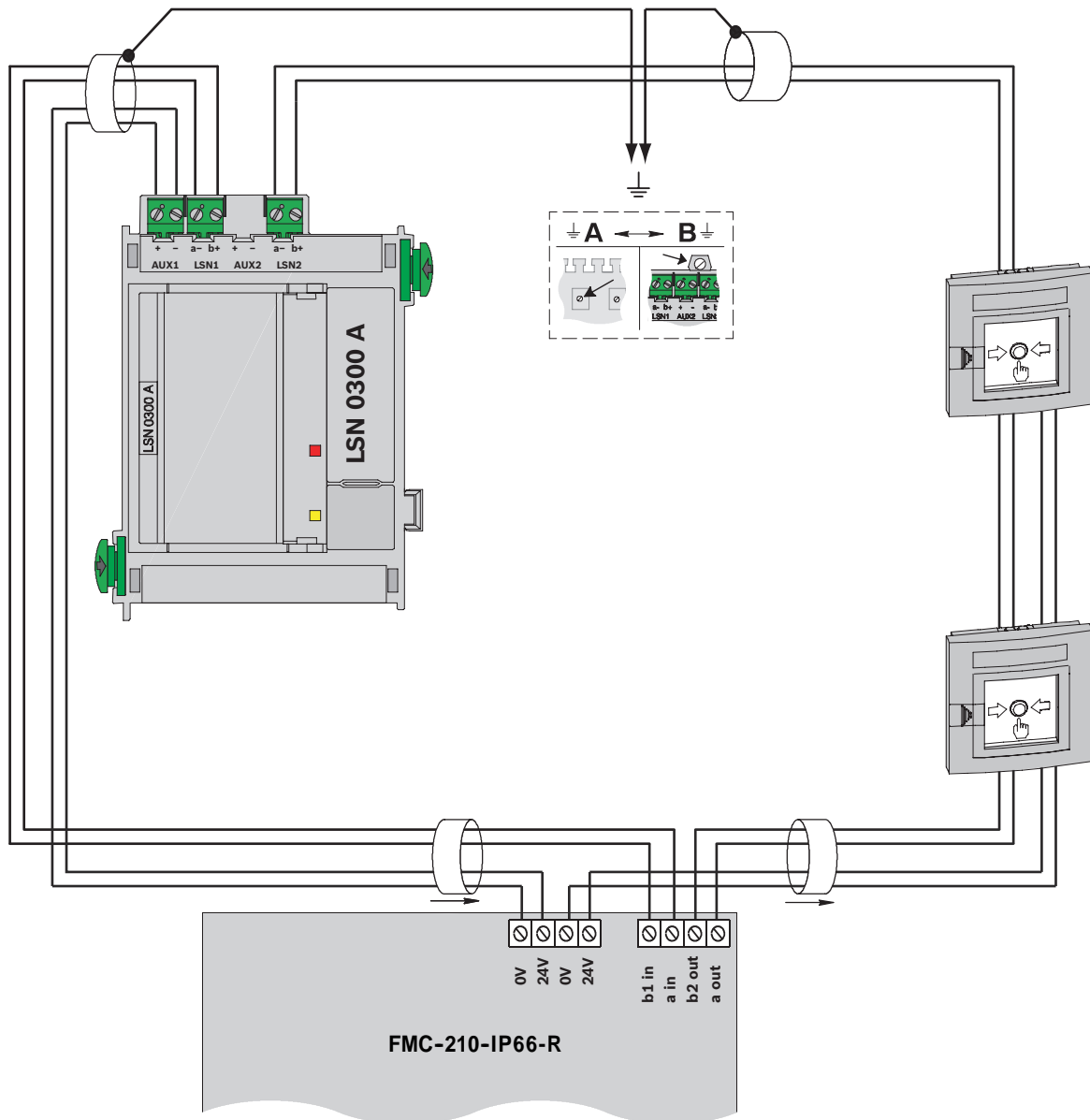
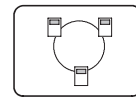


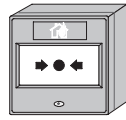
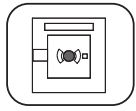
FMC-210...



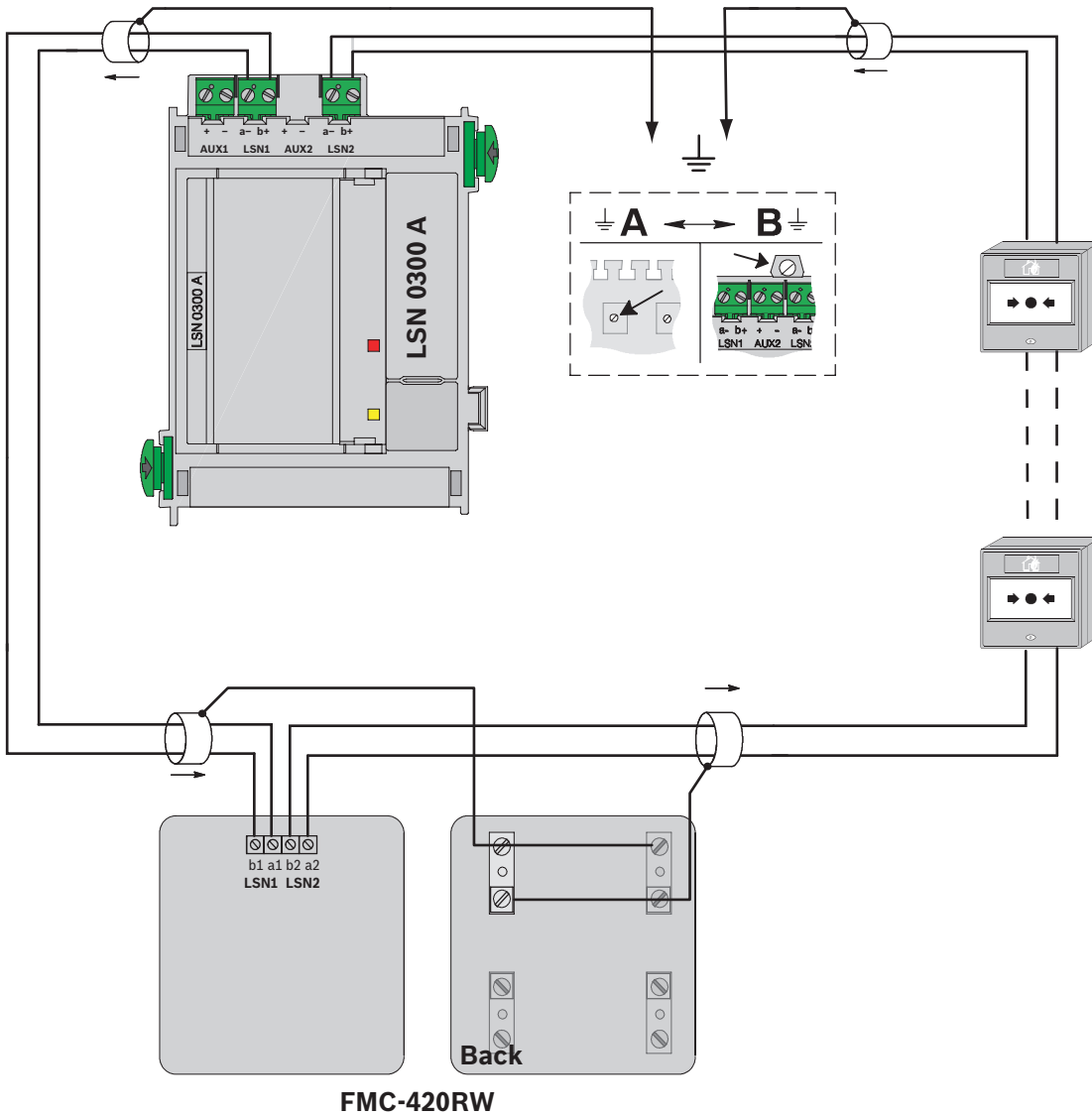
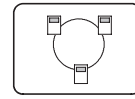


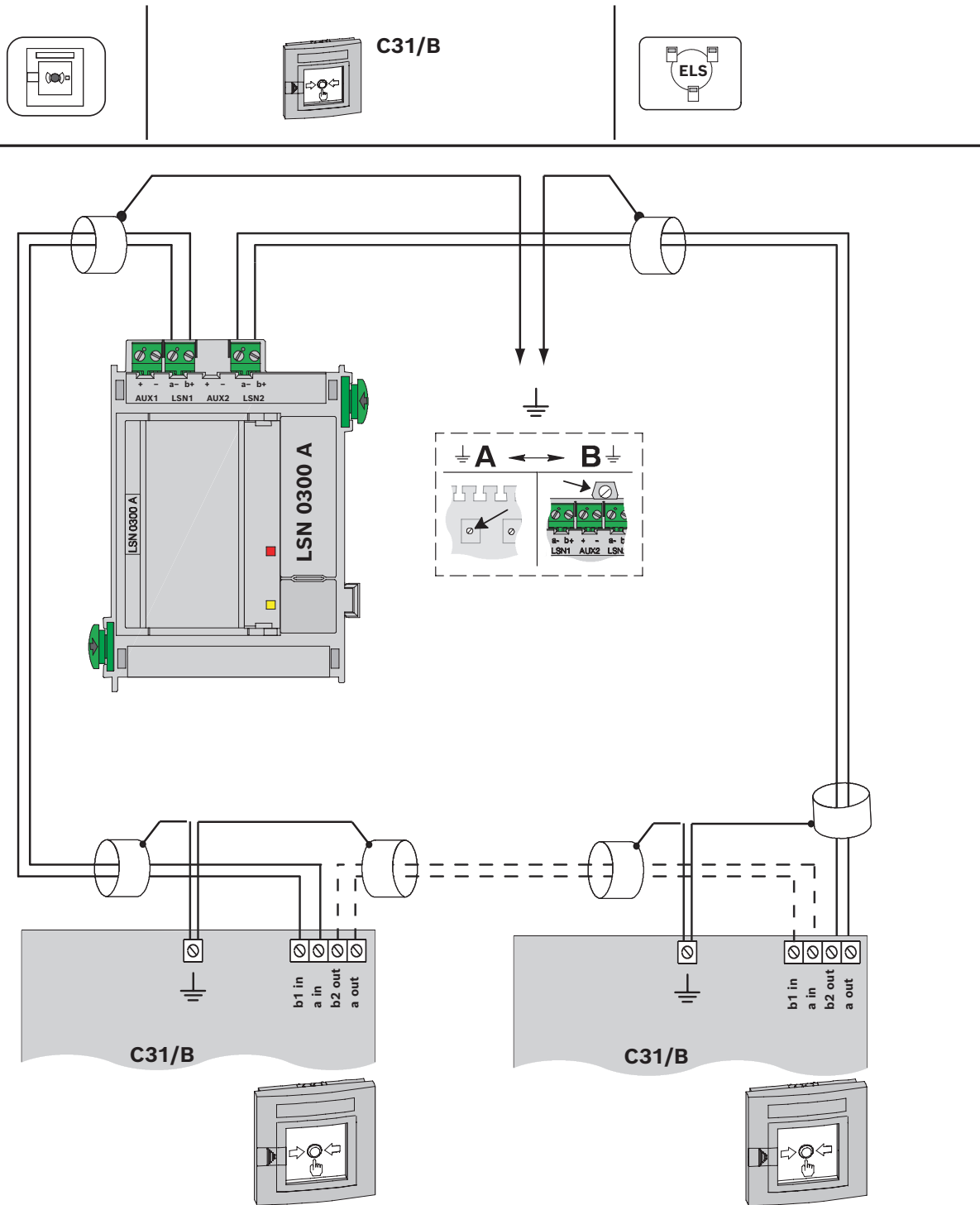
**FMC-210-IP66-R**

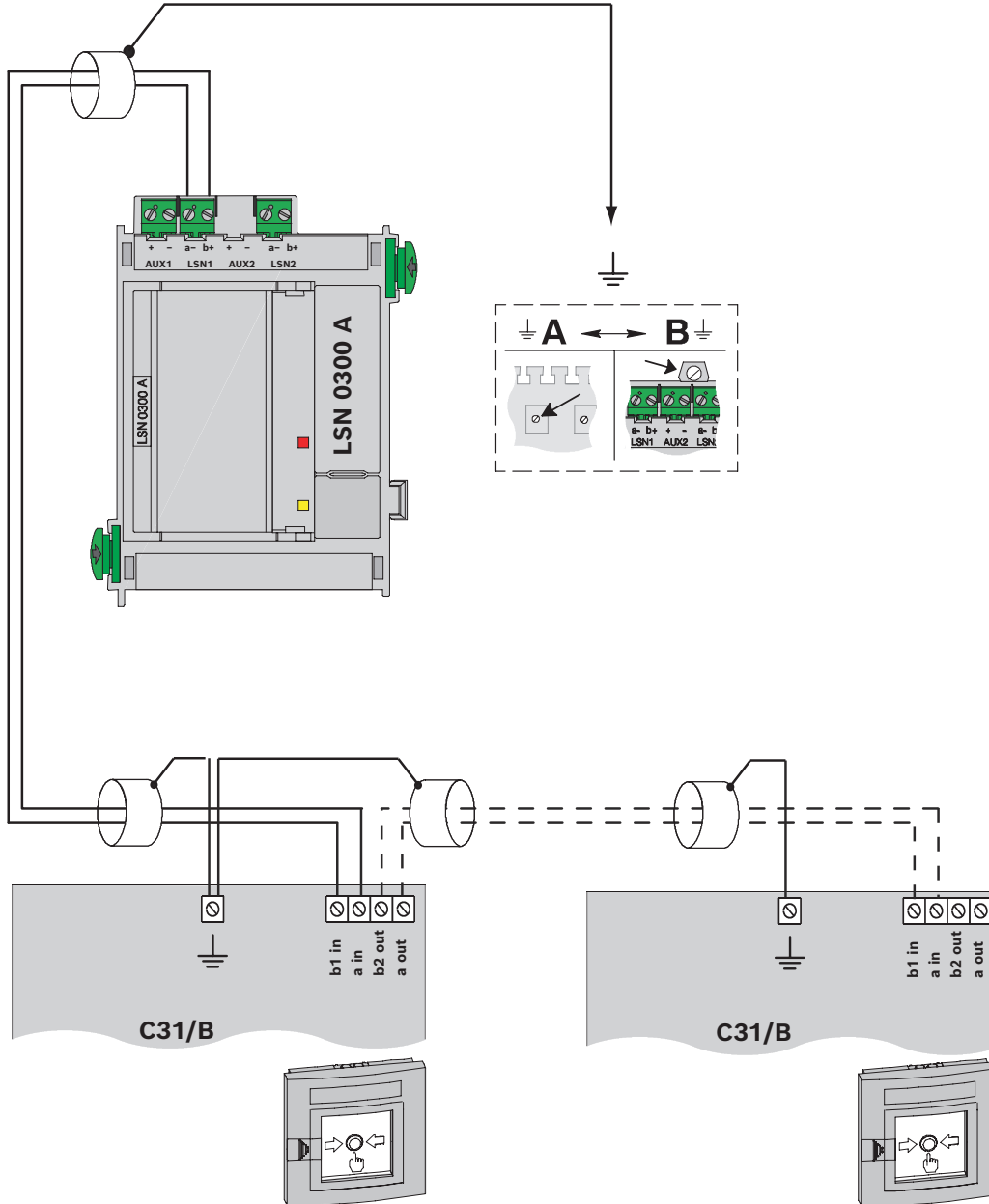
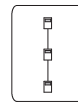
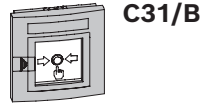
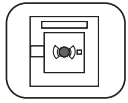


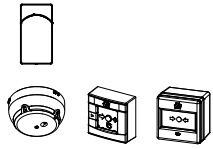


FMC-420RW-HSGRD  
 FMC-420RW-HSRRD  
 FMC-420RW-GFGRD  
 FMC-420RW-GFRRD  
 FMC-420RW-GSGRD  
 FMC-420RW-GSRRD







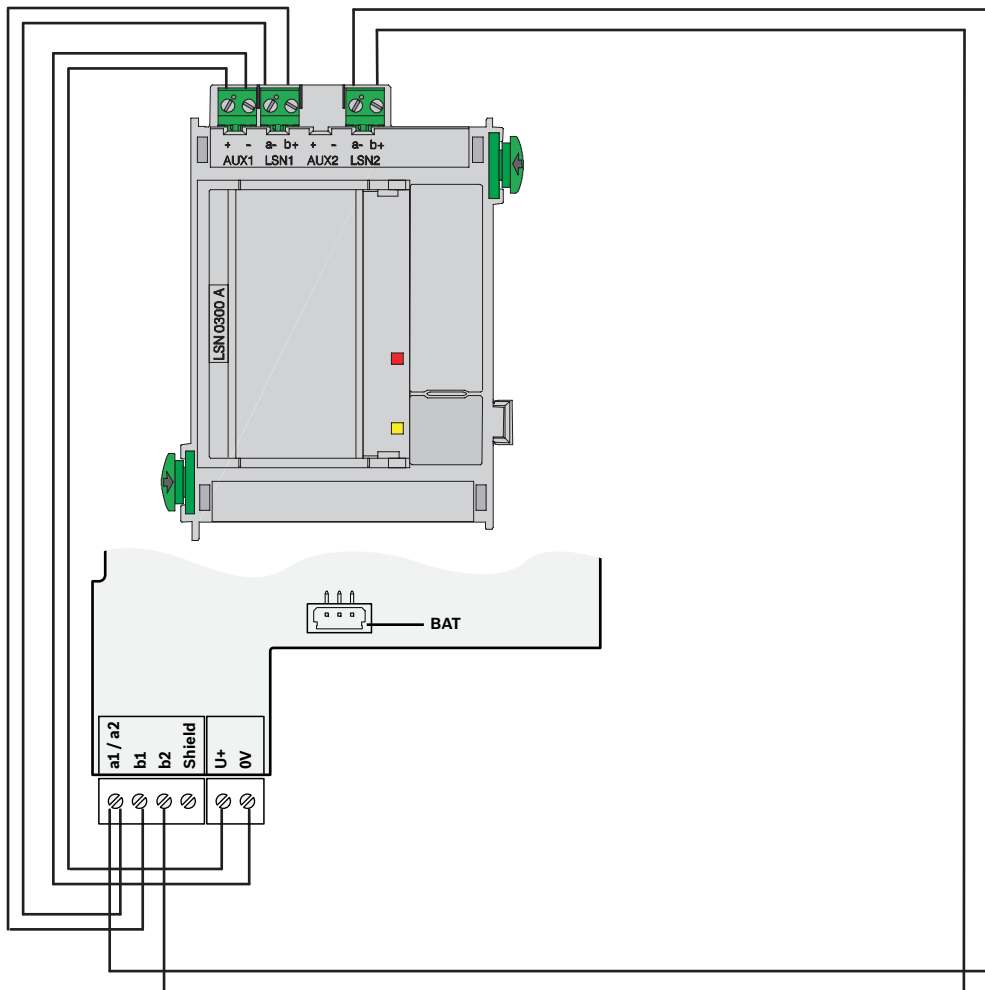
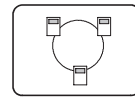


**FWI-270**

**FDOOT271-O**

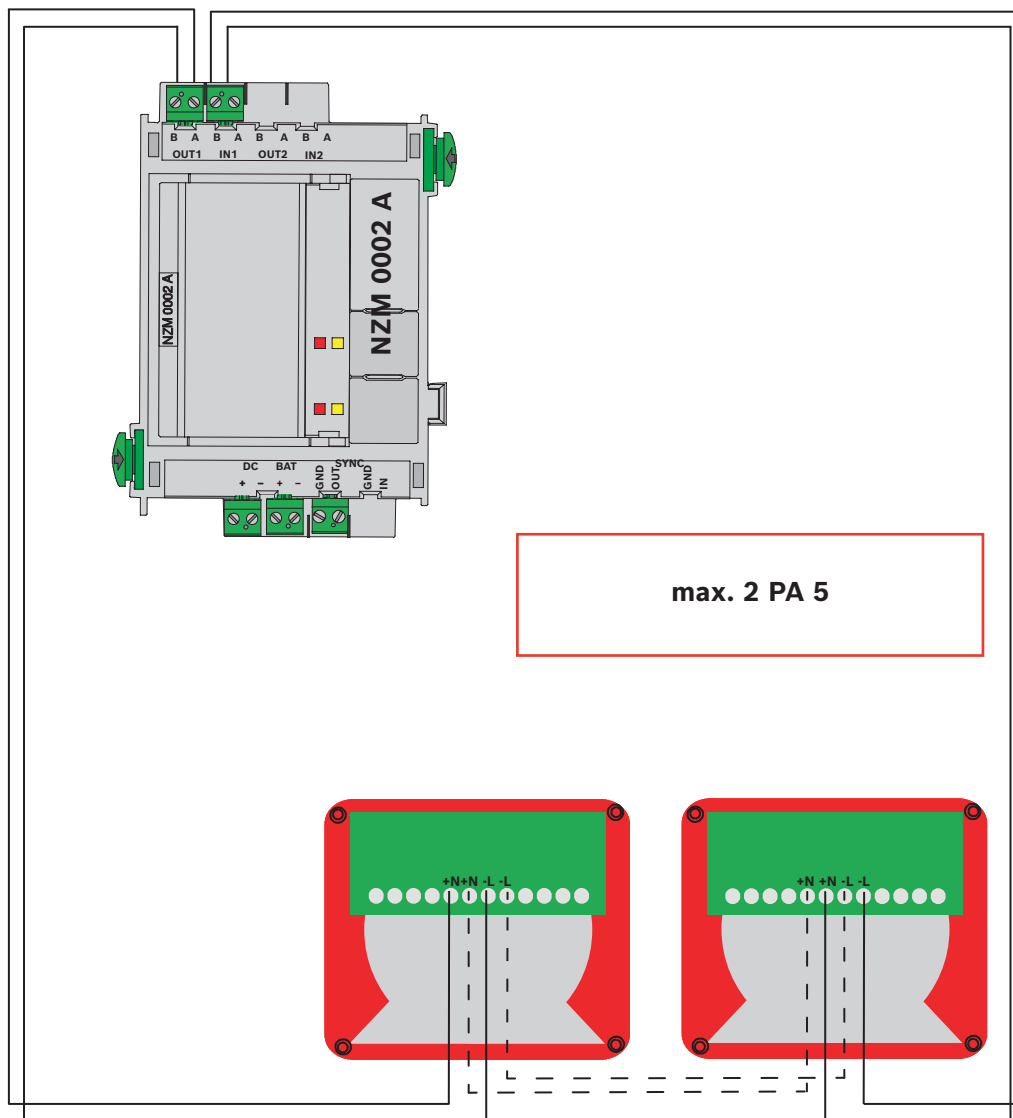
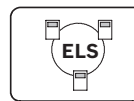
**FDM275-O**

**FDM273-O**

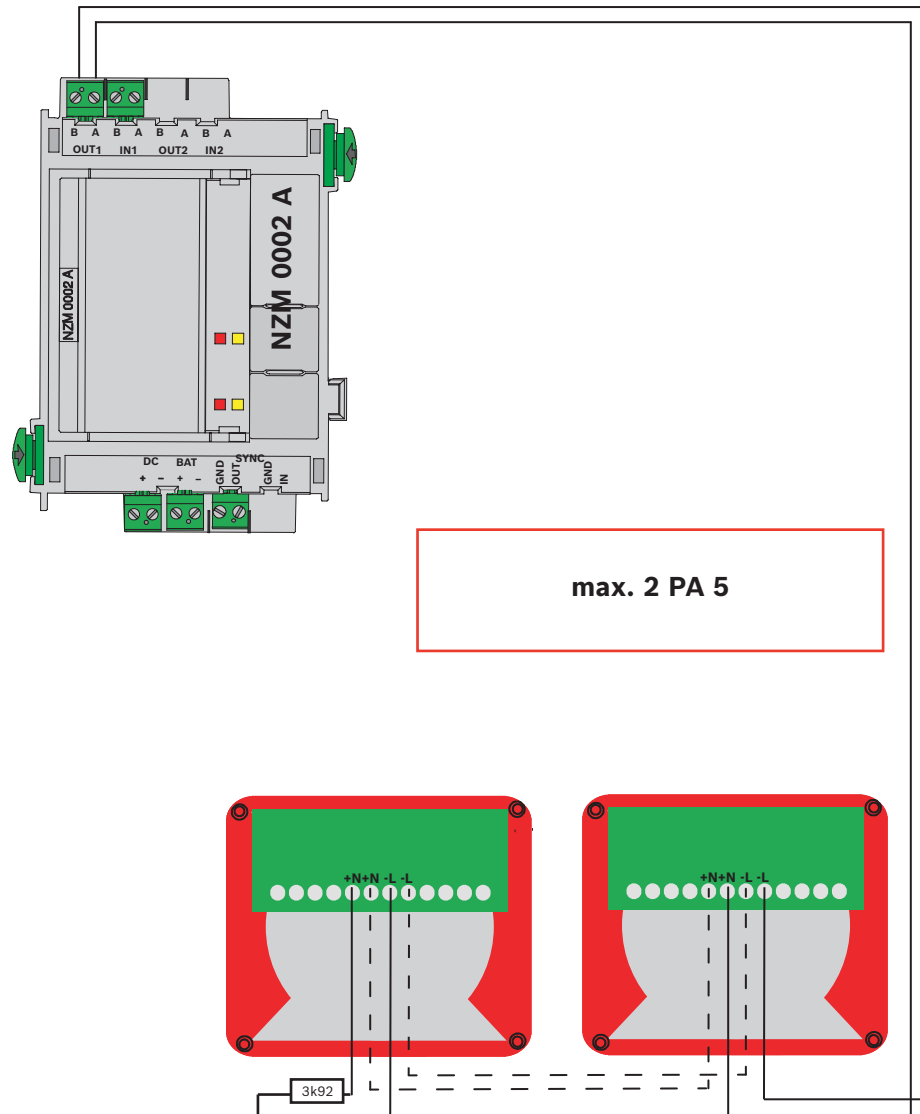
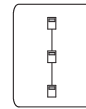


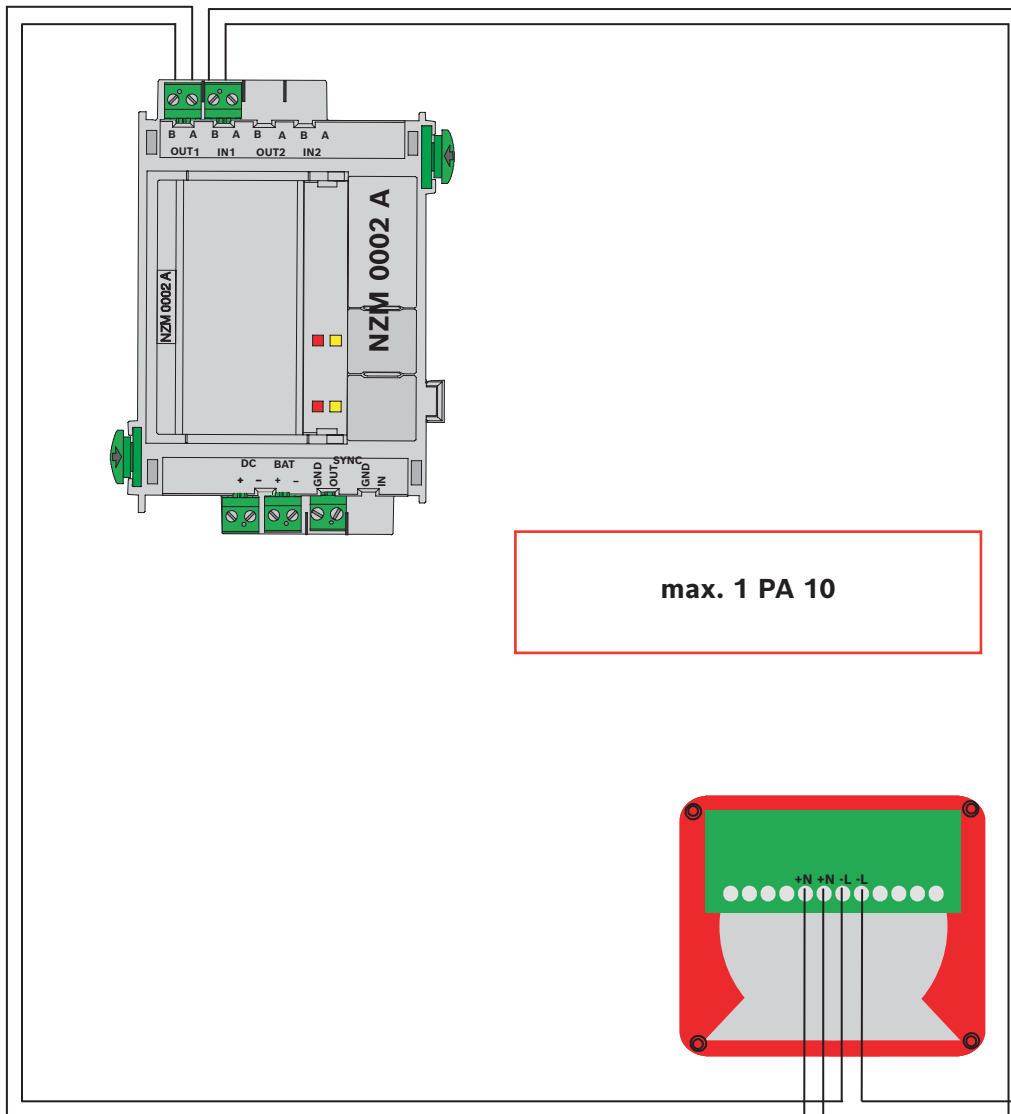
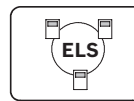
2.4.5

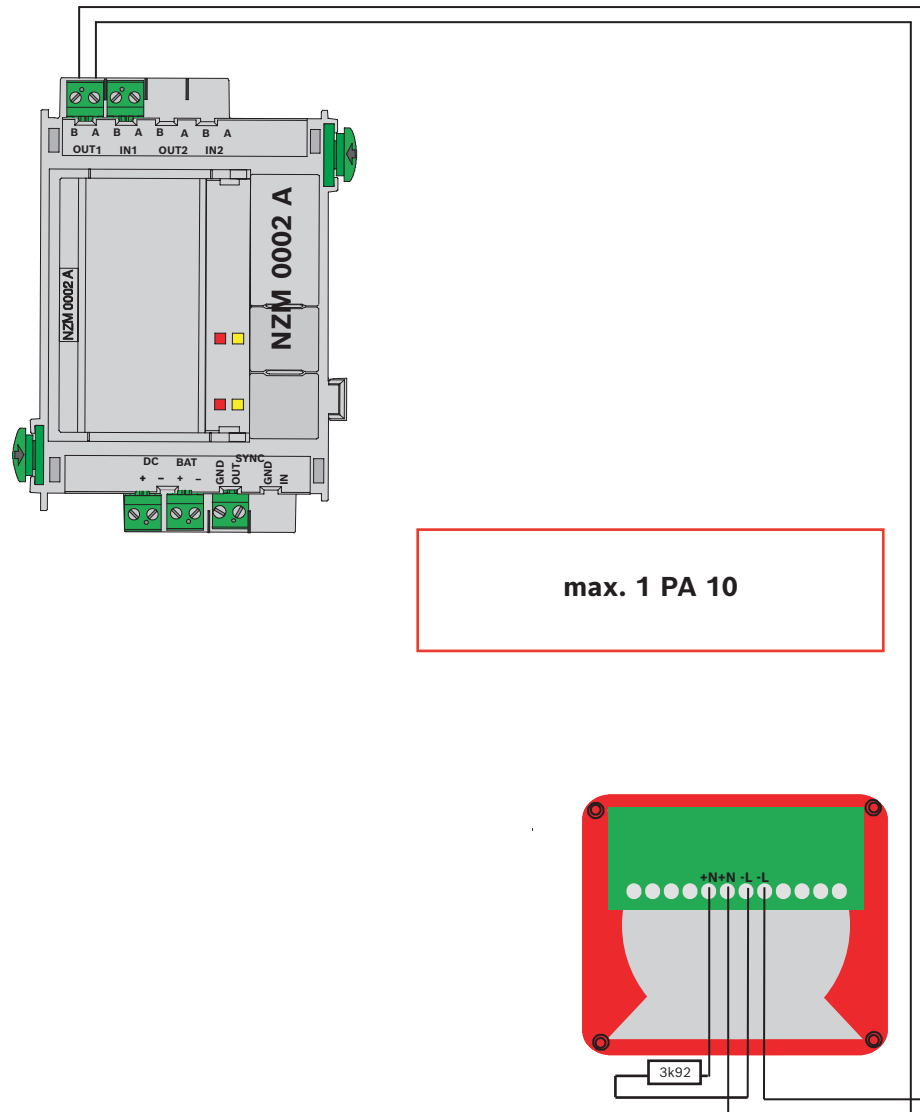
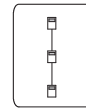
NZM 0002 A

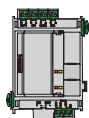
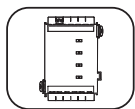




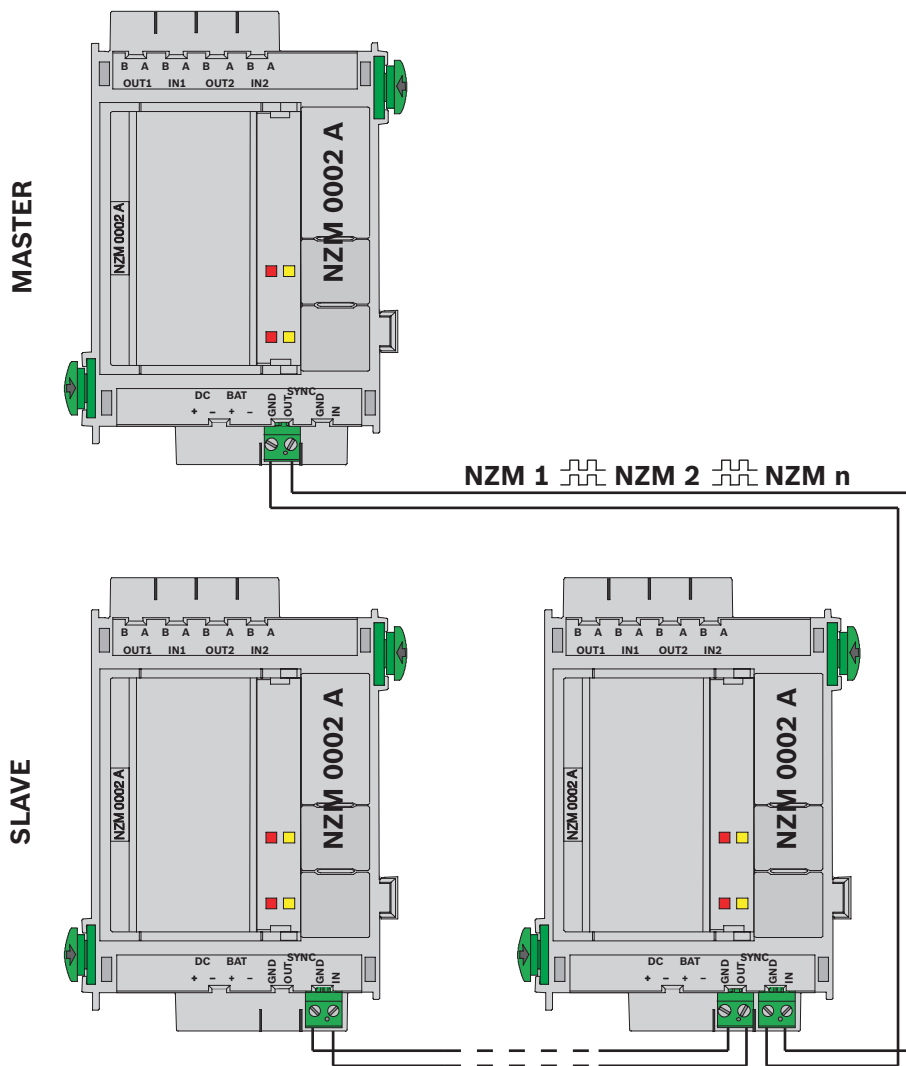


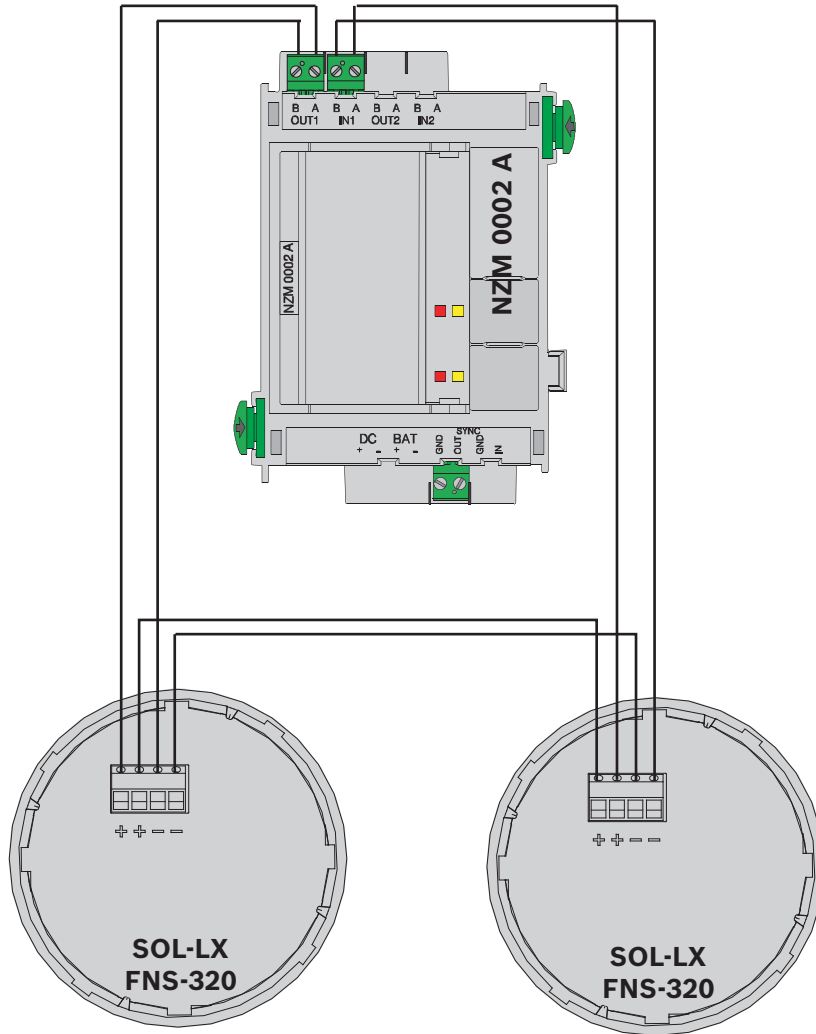
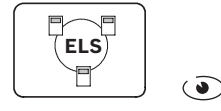


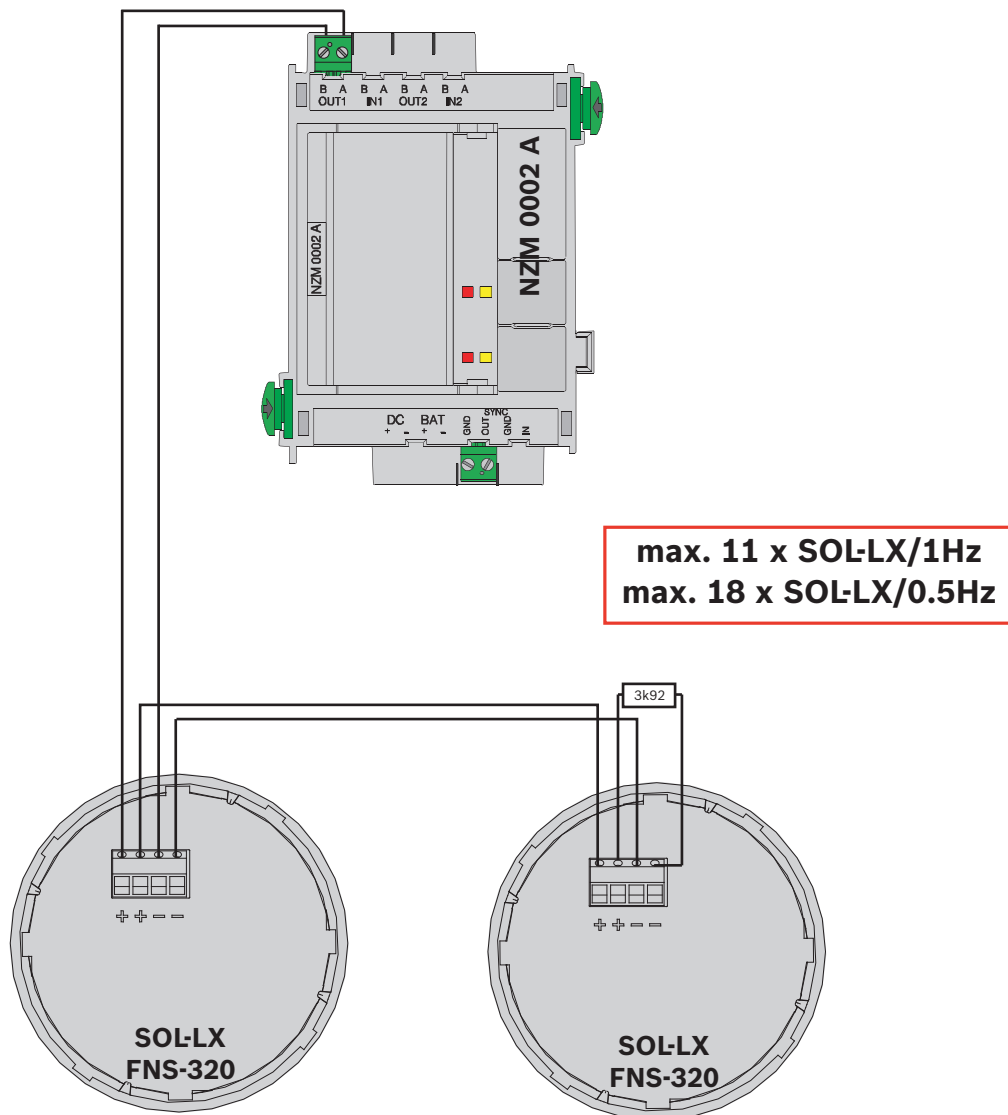
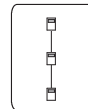


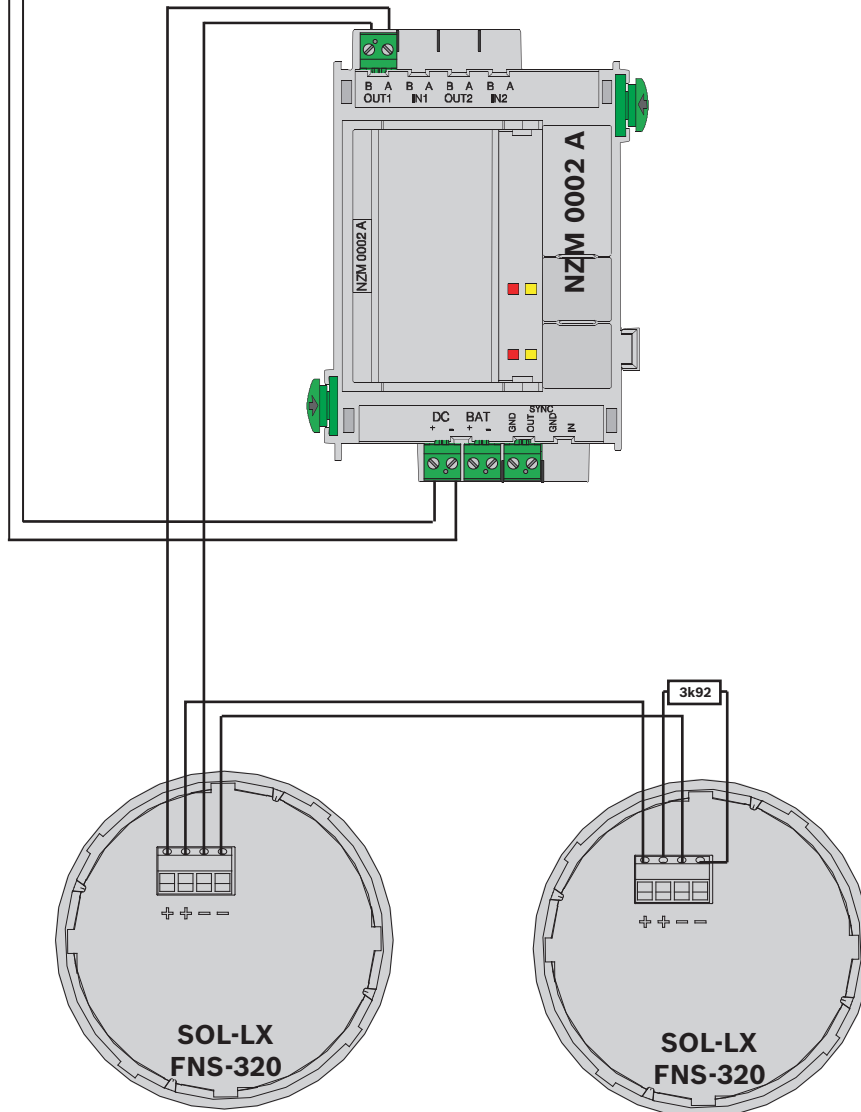
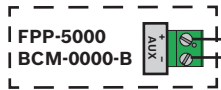
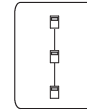


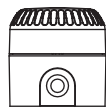
NZM 0002 A



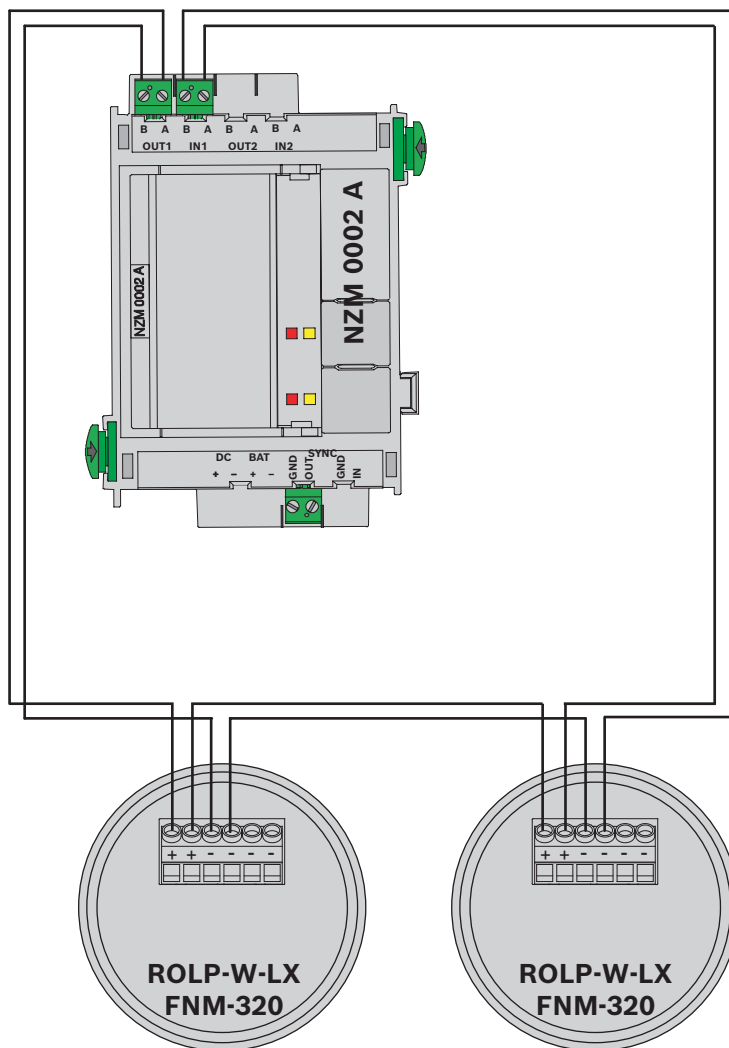
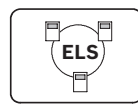




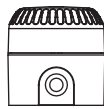




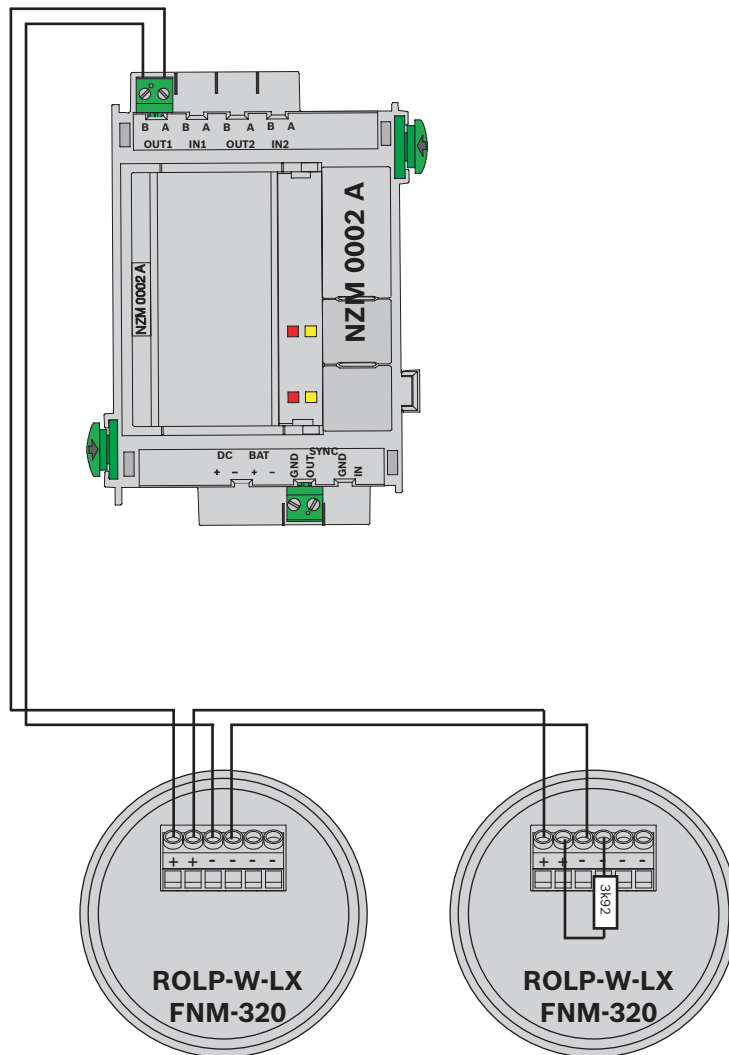
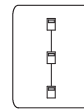
**ROLP-W-LX  
FNM-320**





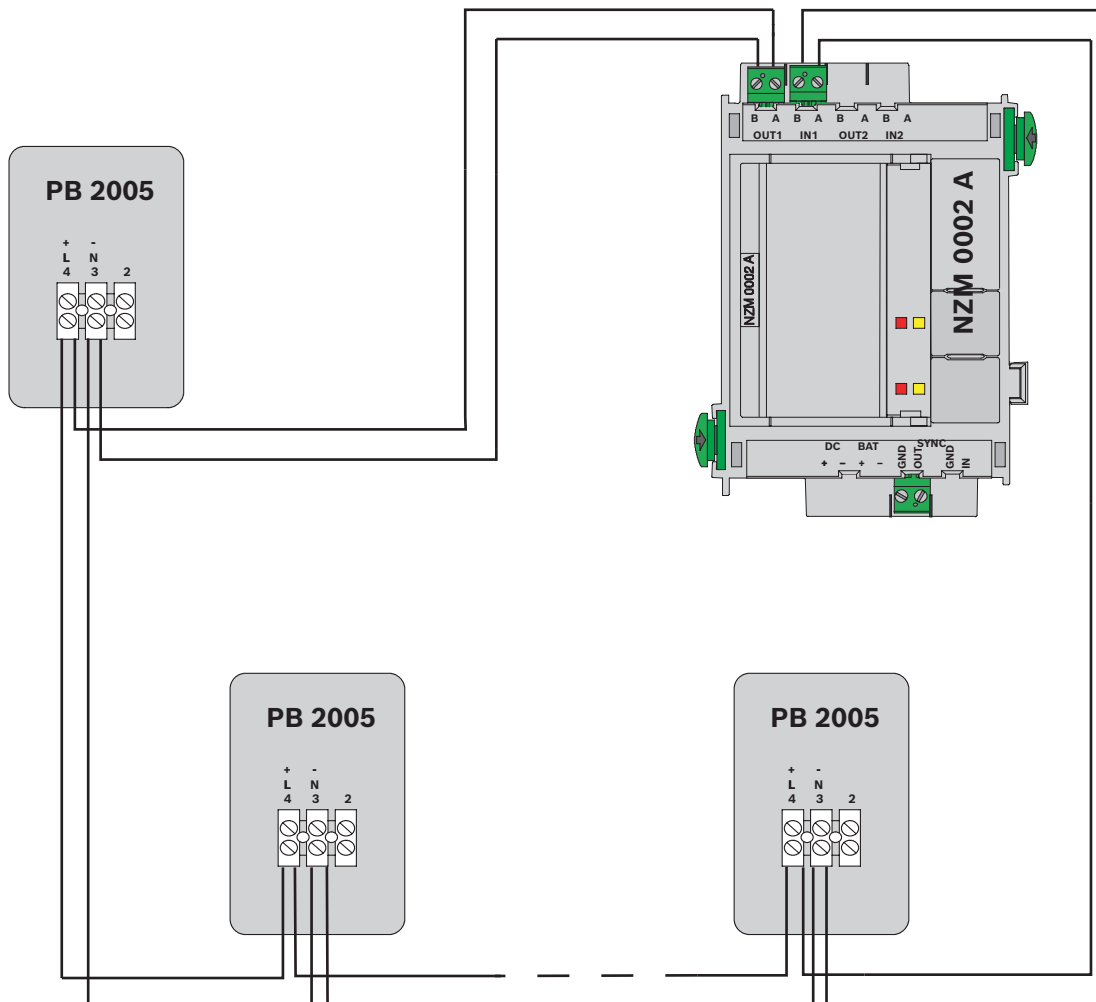
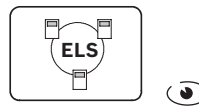


**ROLP-W-LX  
FNM-320**



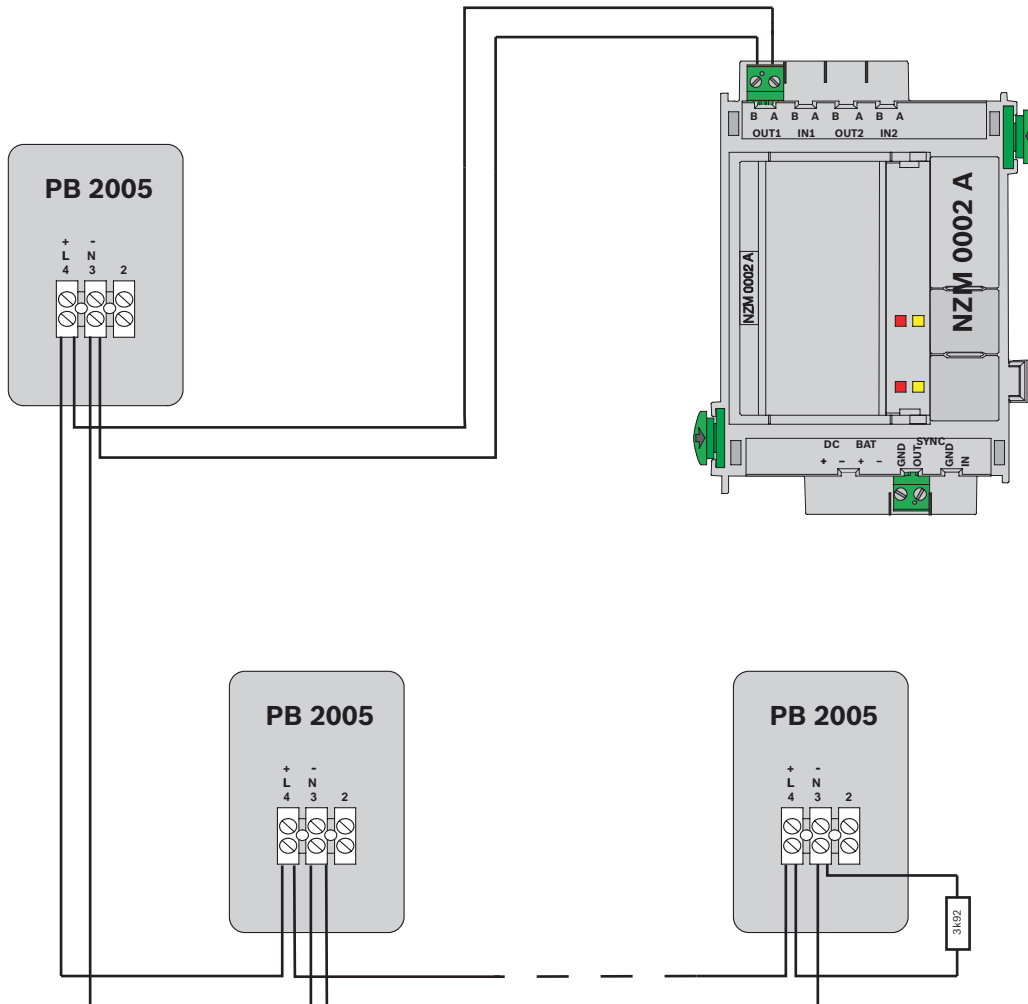
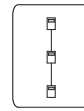


PB 2005



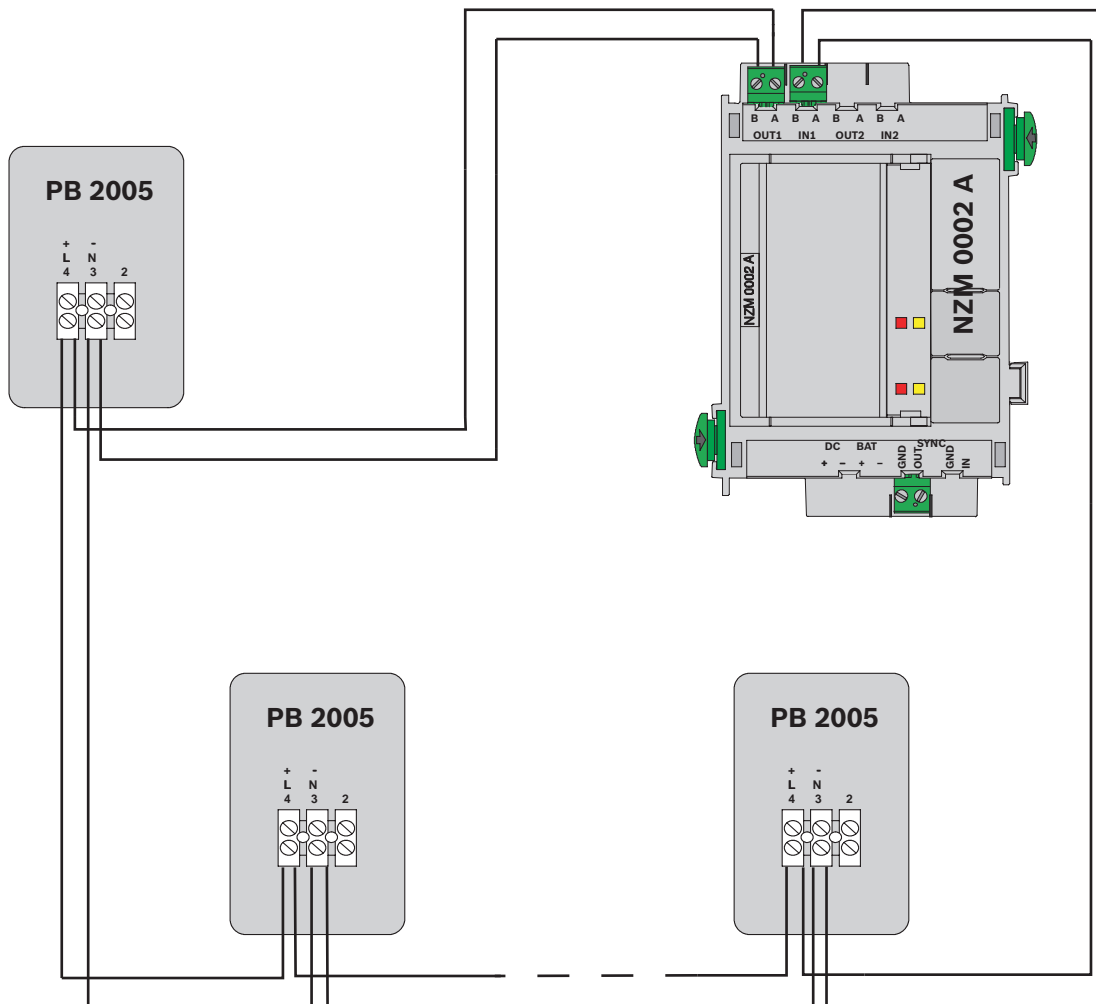
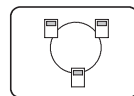


**PB 2005**



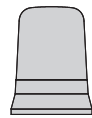


PB 2005

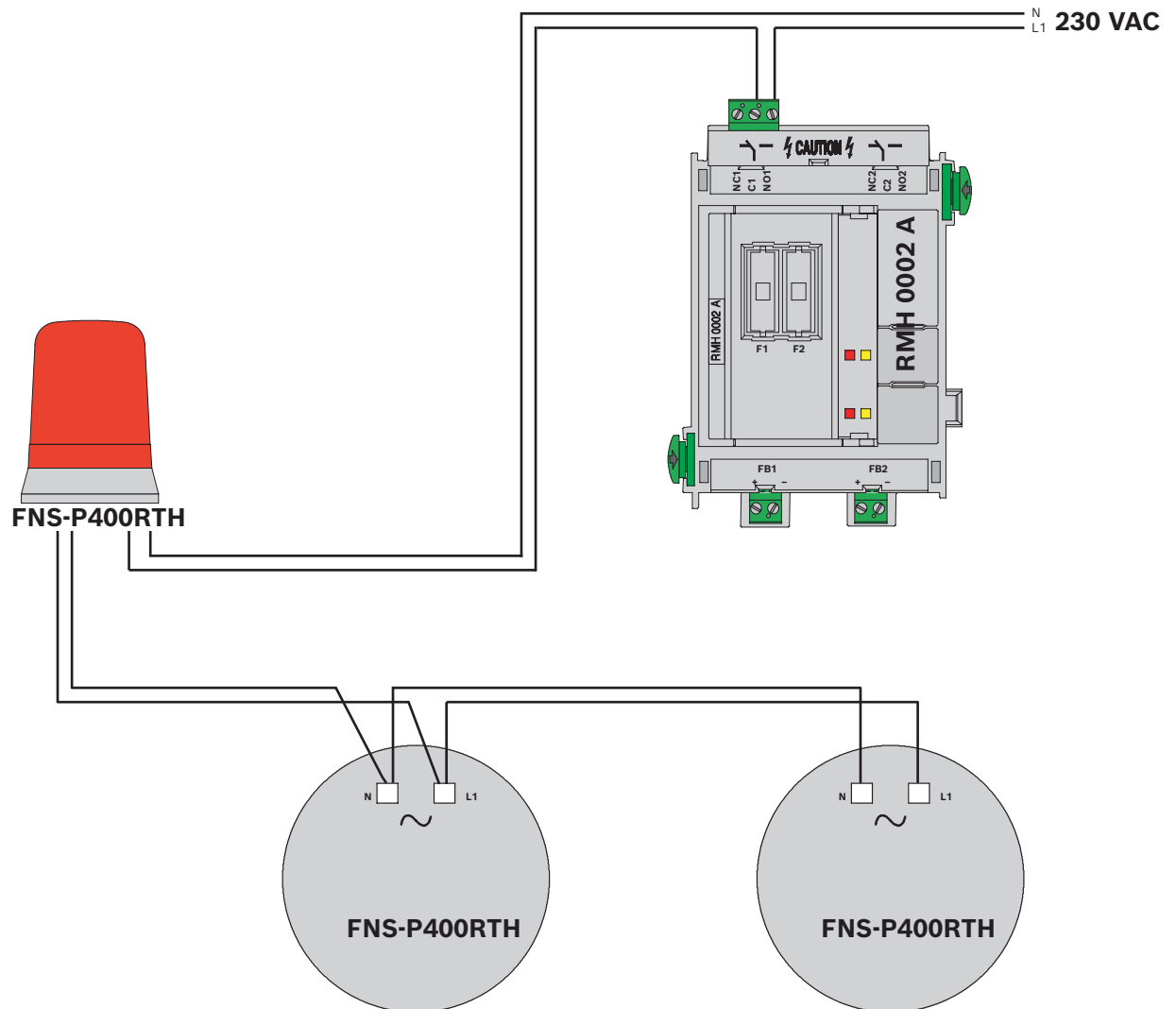
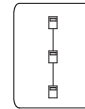


2.4.6

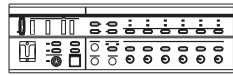
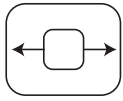
RMH 0002 A



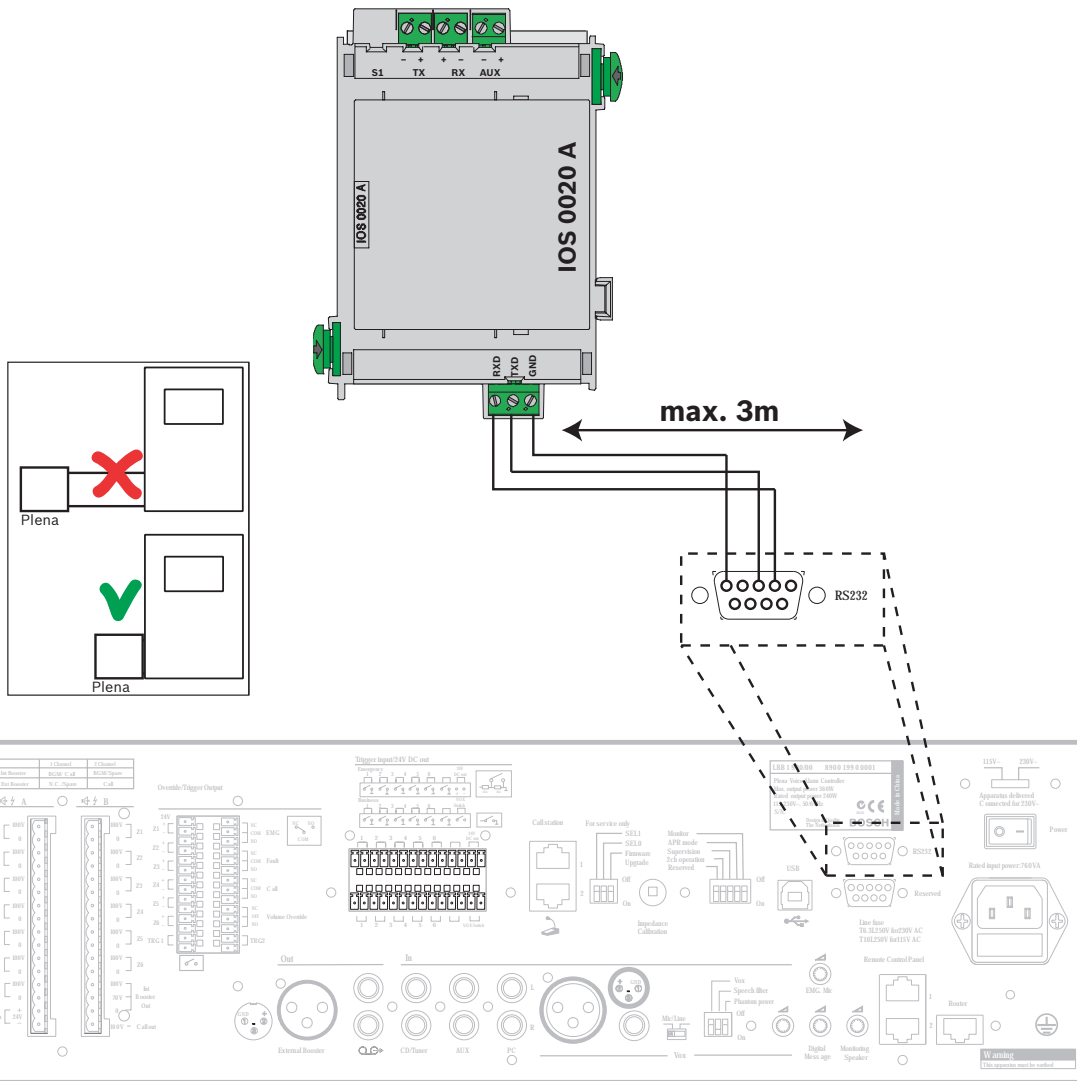
FNS-P400RTH



### 2.4.7 IOS 0020 A



Plena

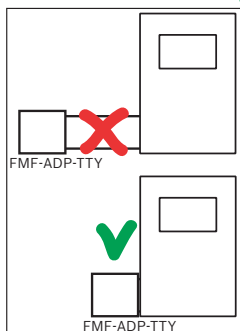
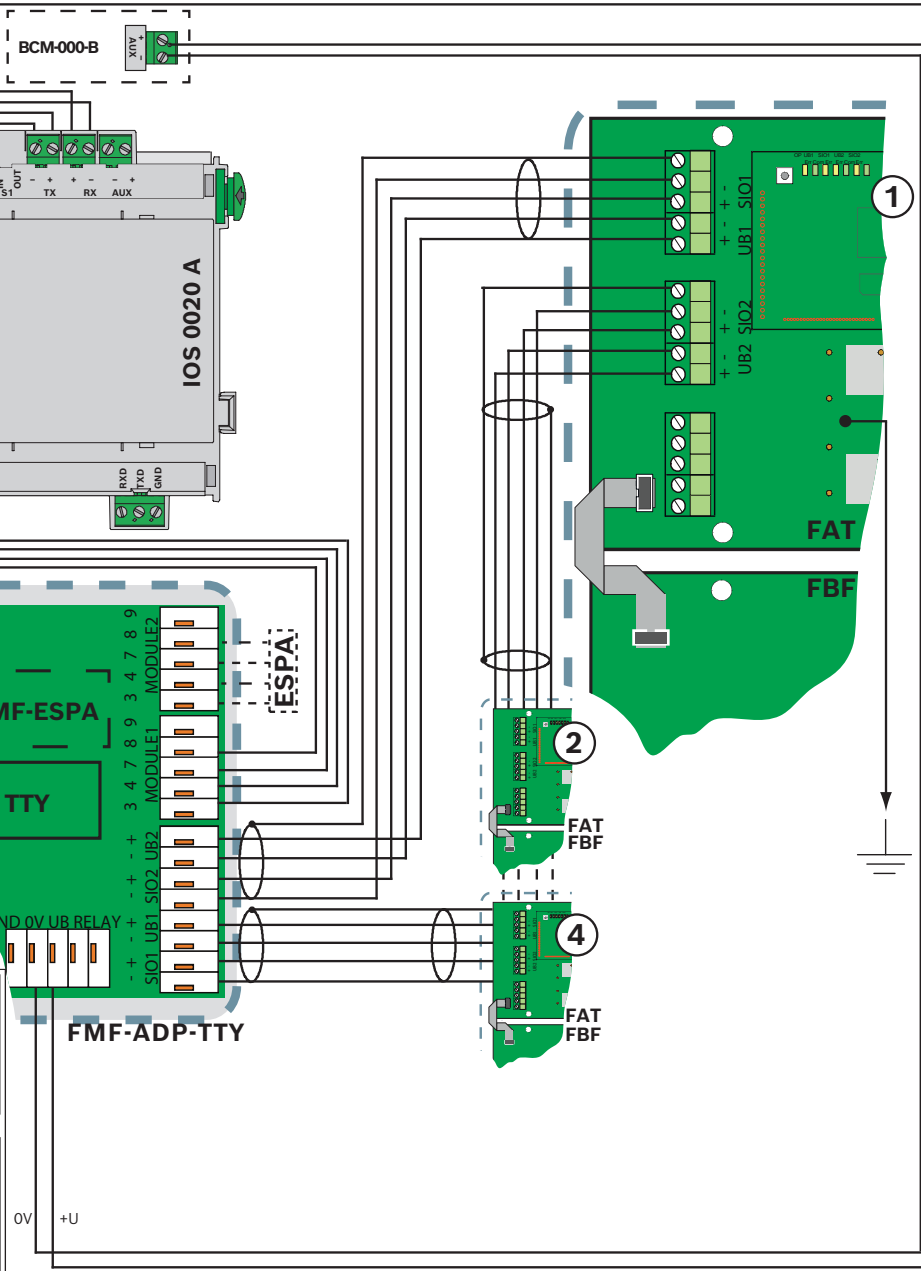




FAT4000 FBF4000 ADP4000

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

ELS

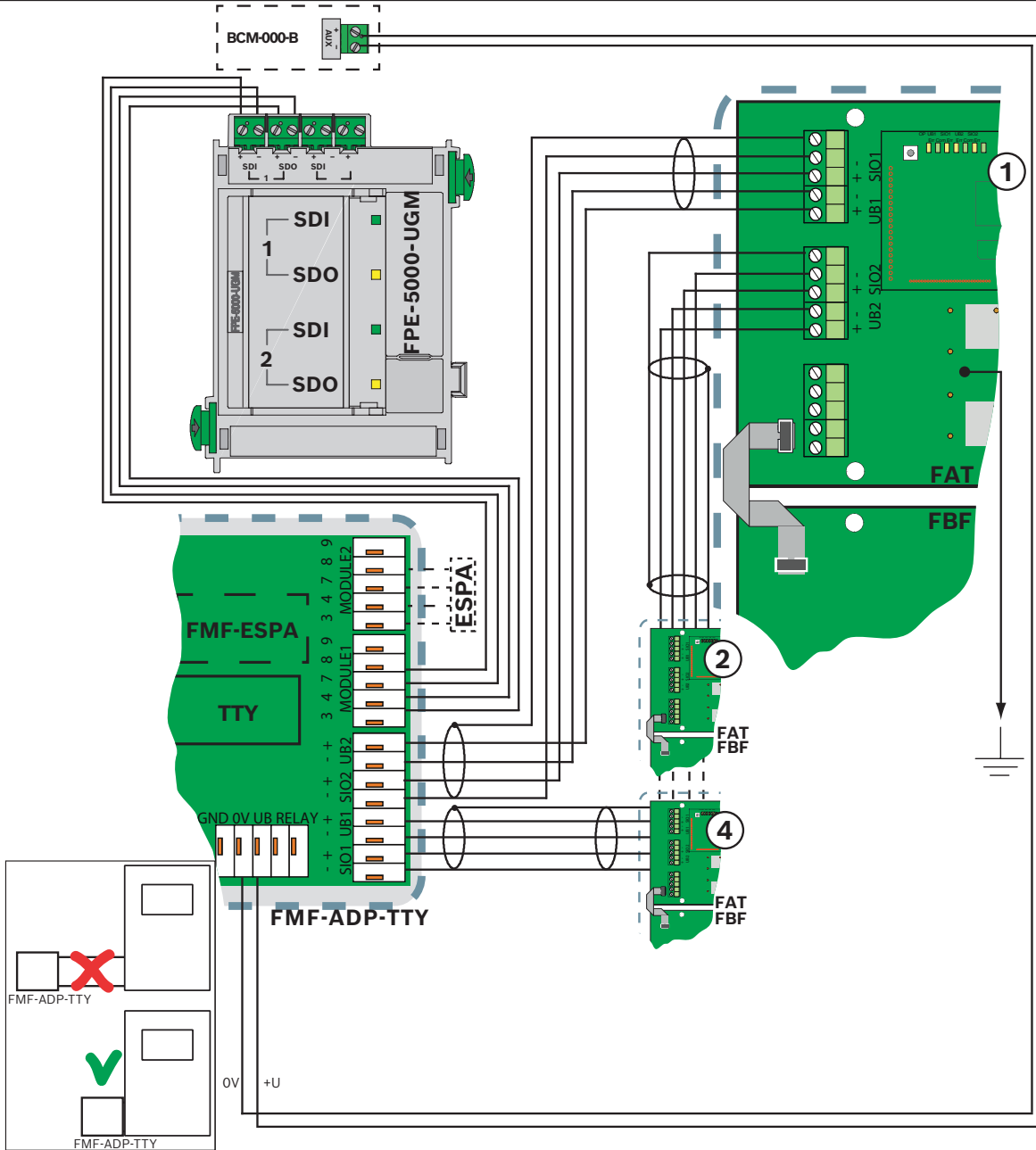


### 2.4.8 FPE-5000-UGM

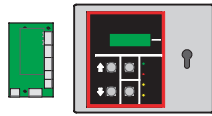


FAT4000 FBF4000 ADP4000  
 FMF-FAT FMF-FBF-FAT  
 FMF-FIBS-A4/-A3  
 FMF-ADP

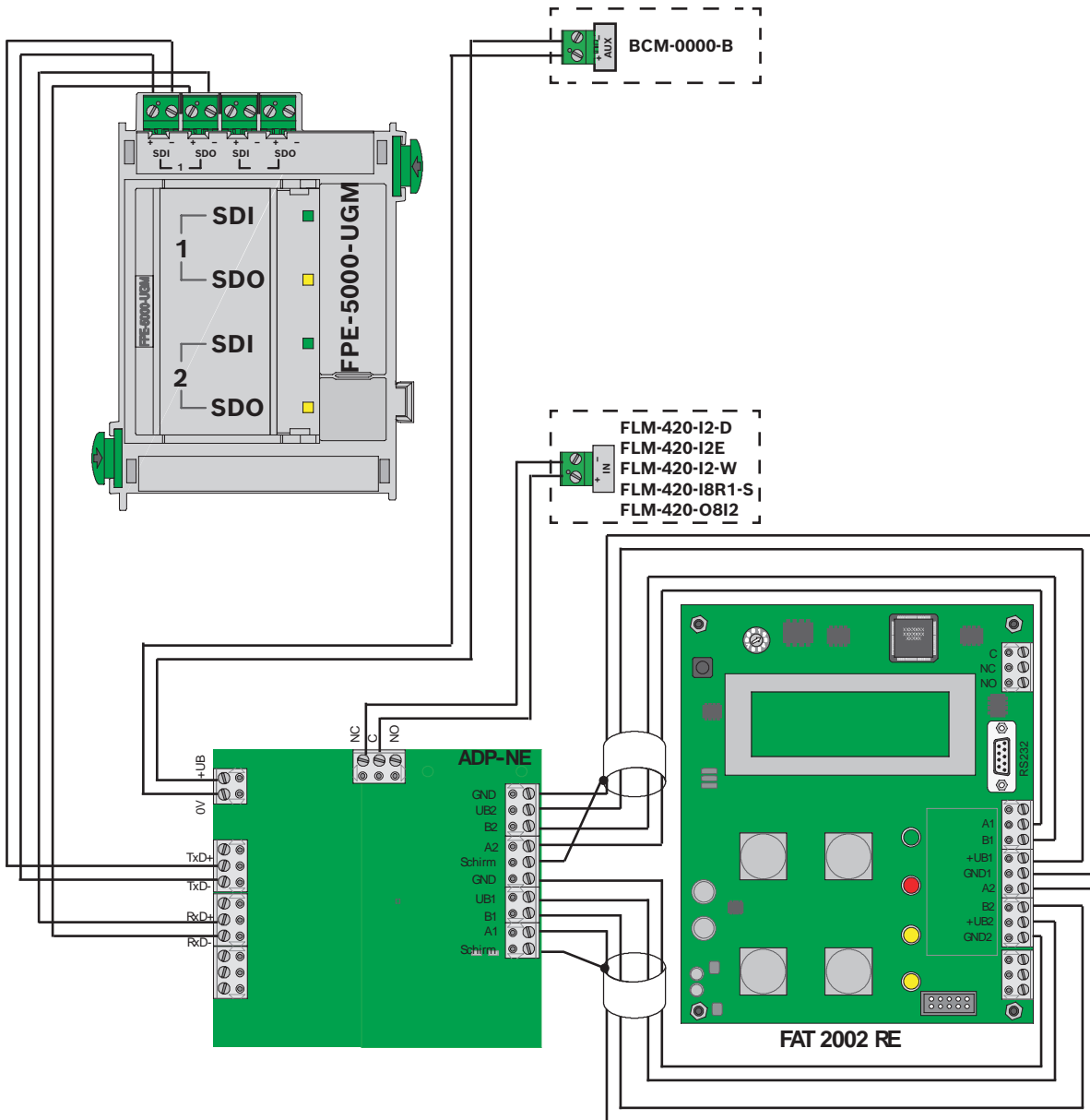
ELS







FAT2002RE  
ADP-NE



## 2.5 Interface Modules



*FLM-420-4/CON-D/S, pagina 125*

*FLM-420-I8R1-S, pagina 158*

*FLM-420-NAC-D/S, pagina 160*

*FLM-420-RHV, pagina 172*

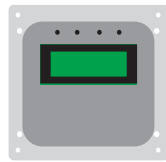
*FLM-420-RLE-S, pagina 184*

*FLM-420-RLV1-E, pagina 185*

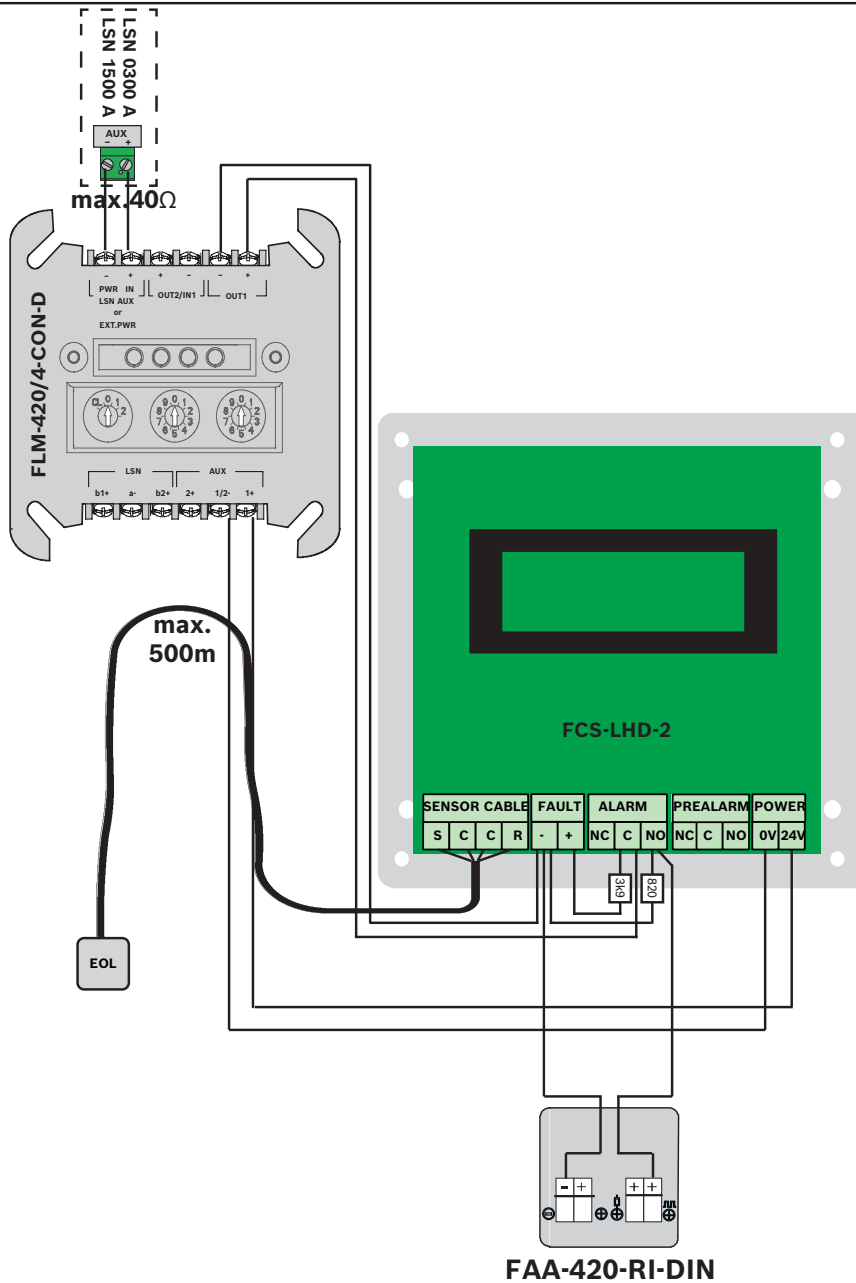
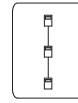
*FLM-420-RLV8-S, pagina 186*

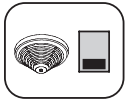
*FMF-ADP-FBF/FMF-ADP-TTY, pagina 187*

### 2.5.1 FLM-420-4/CON-D/S

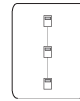


ALARMLINE II



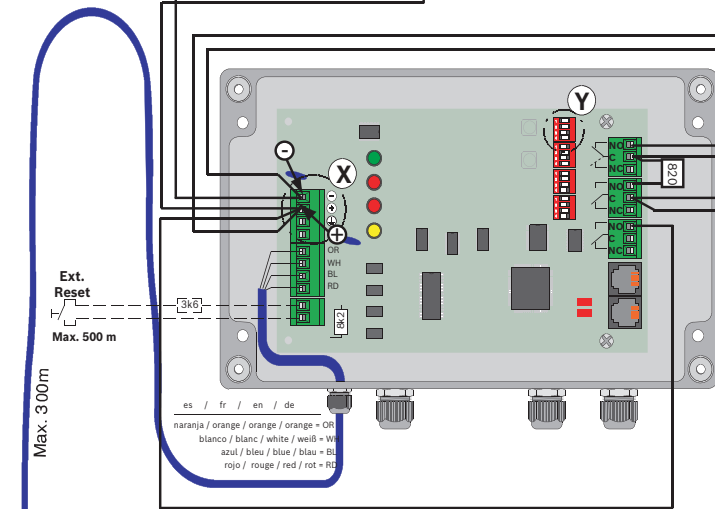
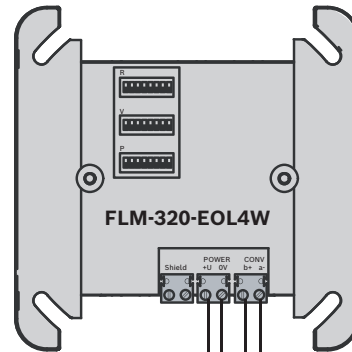
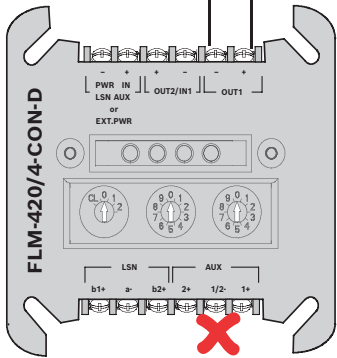


FCS-LWM-1



ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A

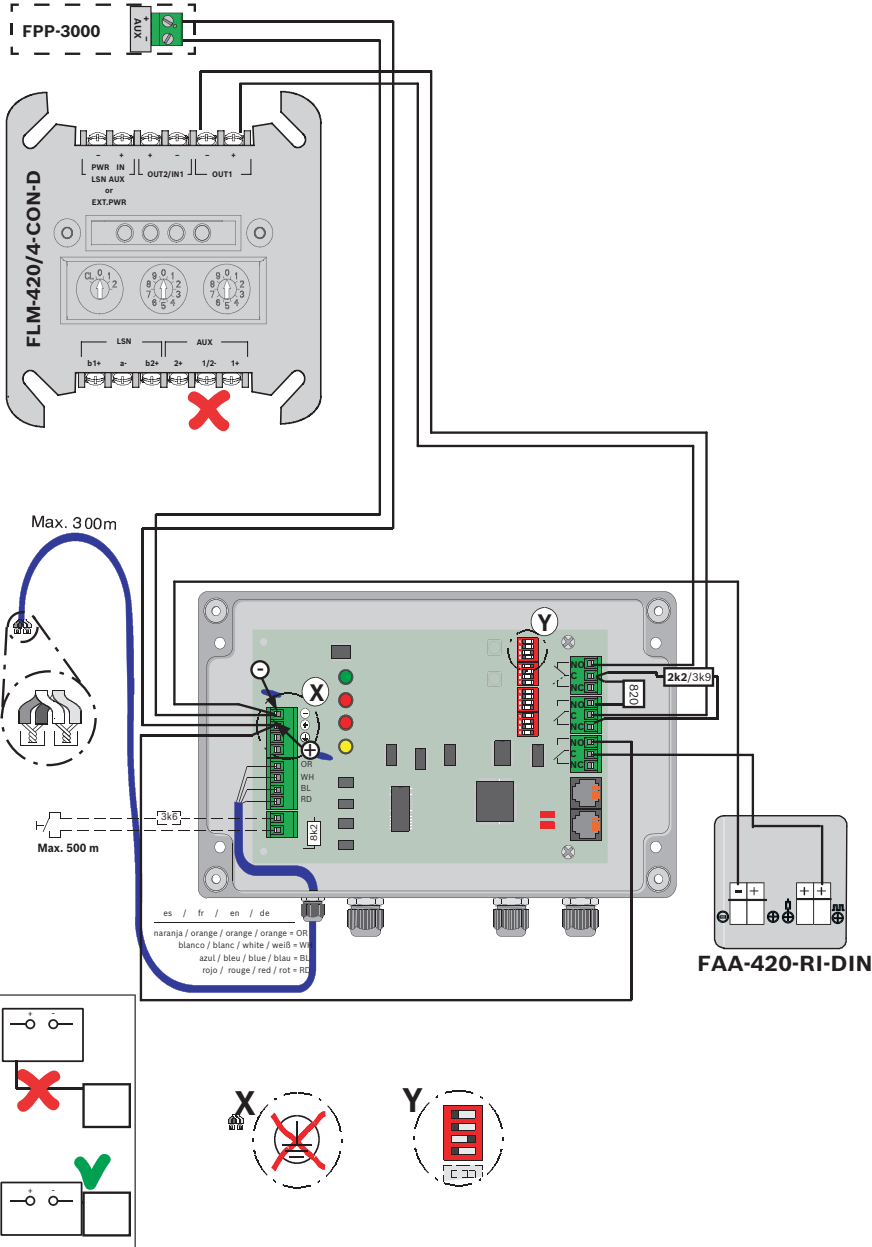


es / fr / en / de  
naranja / orange / orange / orange = OR  
blanco / blanc / white / weiß = WH  
azul / bleu / blue / blau = BL  
rojo / rouge / red / rot = RE





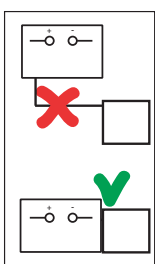
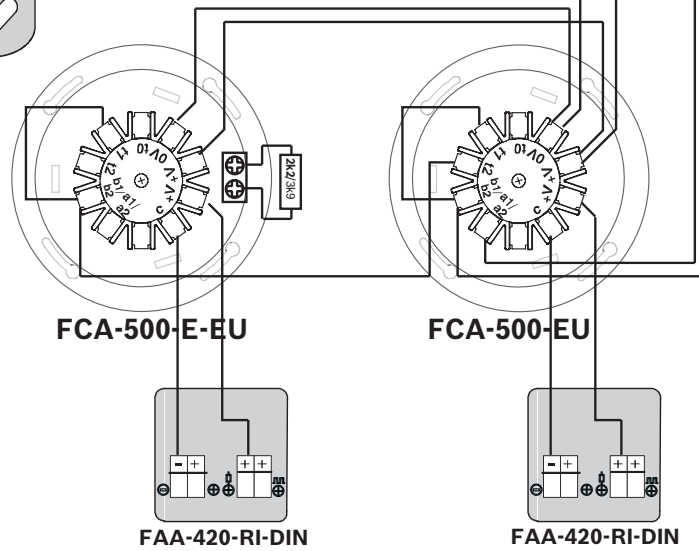
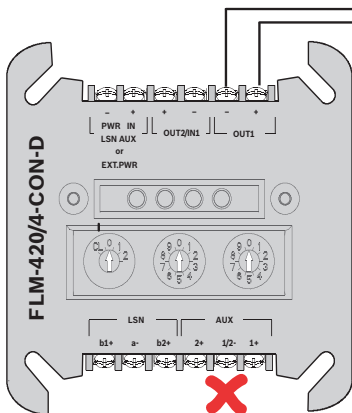
FCS-LWM-1

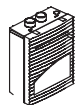






FCA-500-EU  
 FCP-O 500  
 FCP-O 500-P  
 FCP-OC 500  
 FCP-OC 500-P

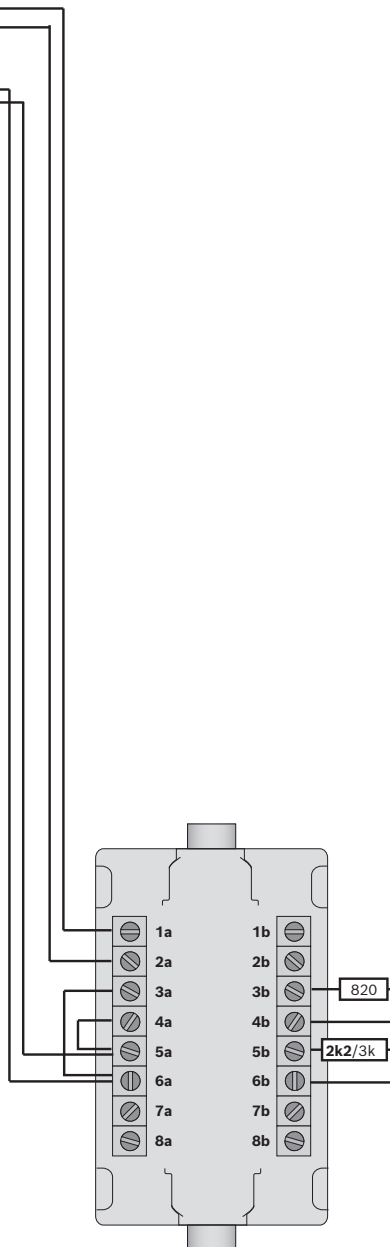
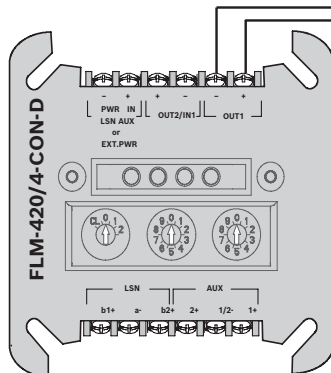




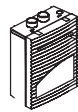
FCS-320-TM Series



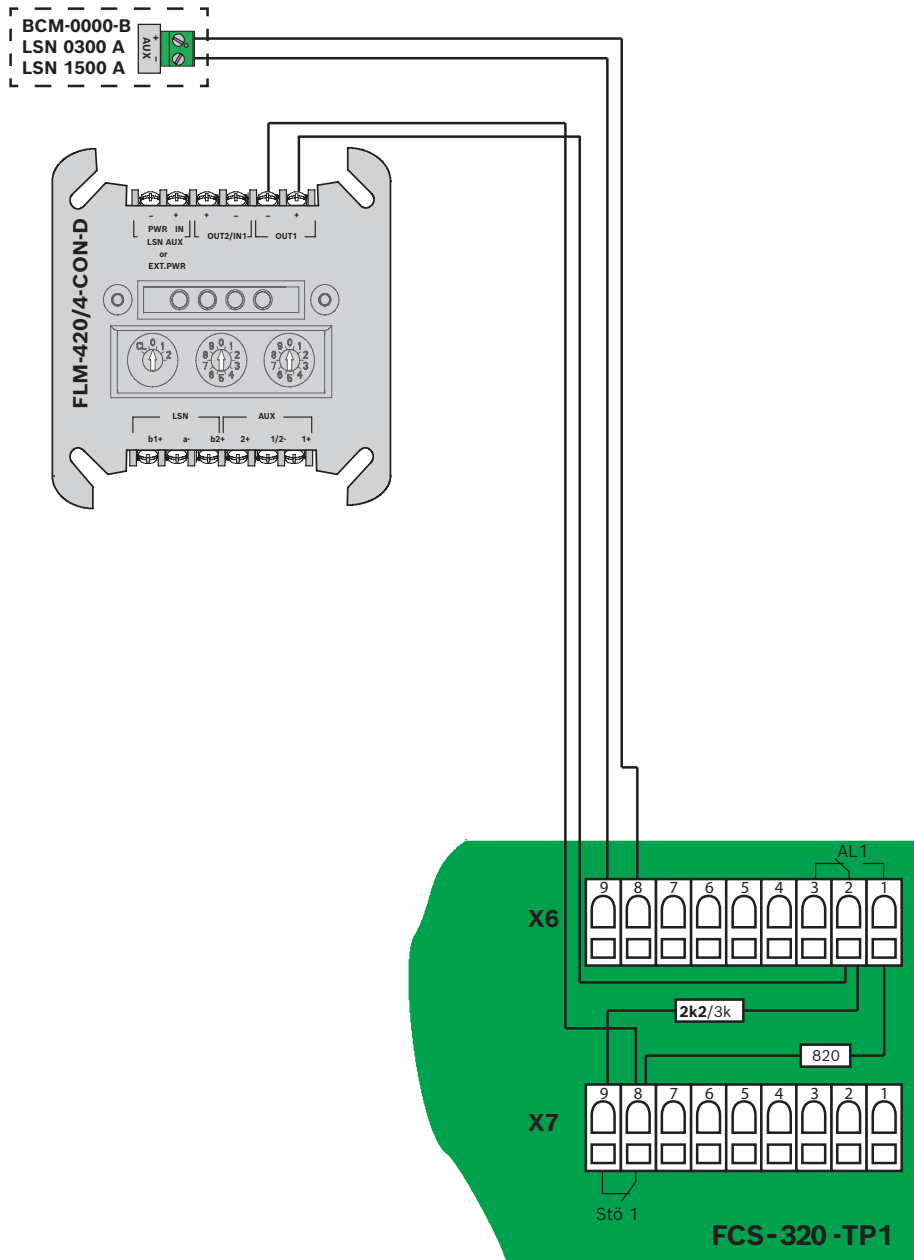
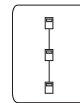
BCM-0000-B  
LSN 0300 A  
LSN 1500 A

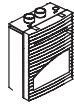




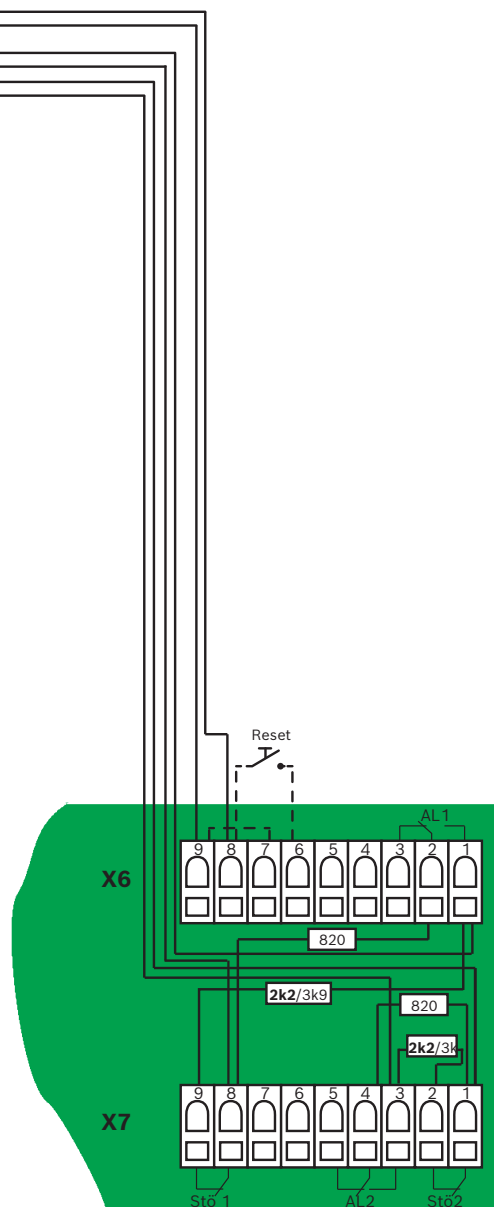
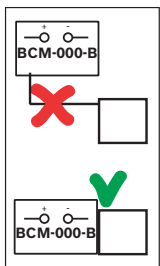
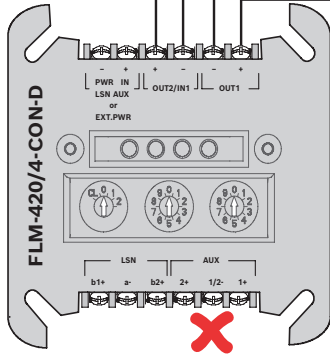
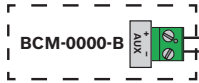


FCS-320-TP Series

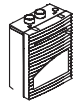




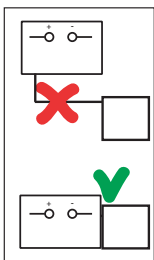
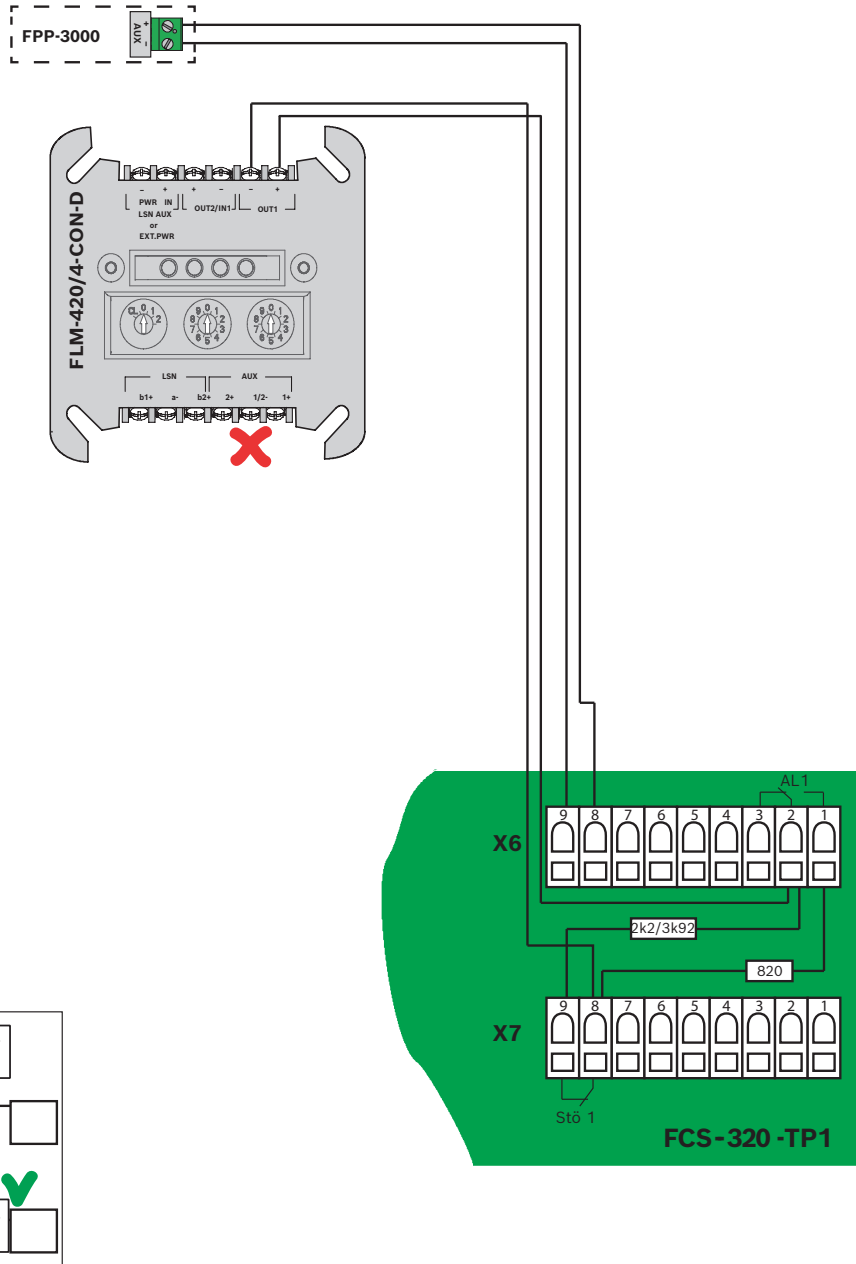
FCS-320-TP Series

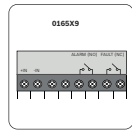


FCS-320-TP2

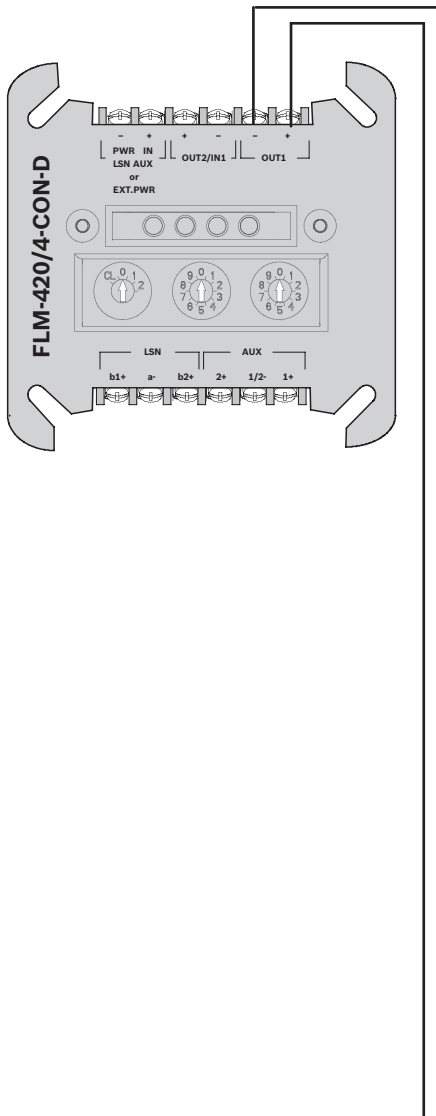
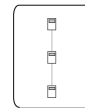


**FCS-320-TP1**

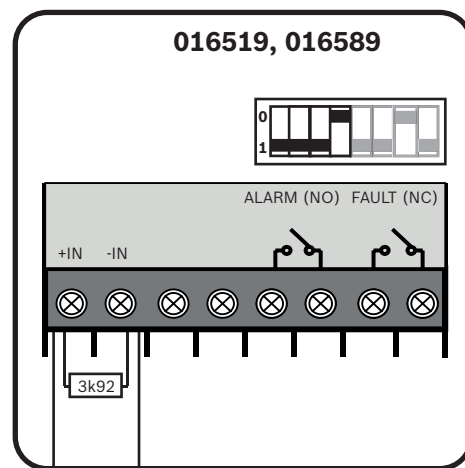


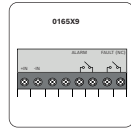


**016519, 016589  
IR3 Flame Detector**

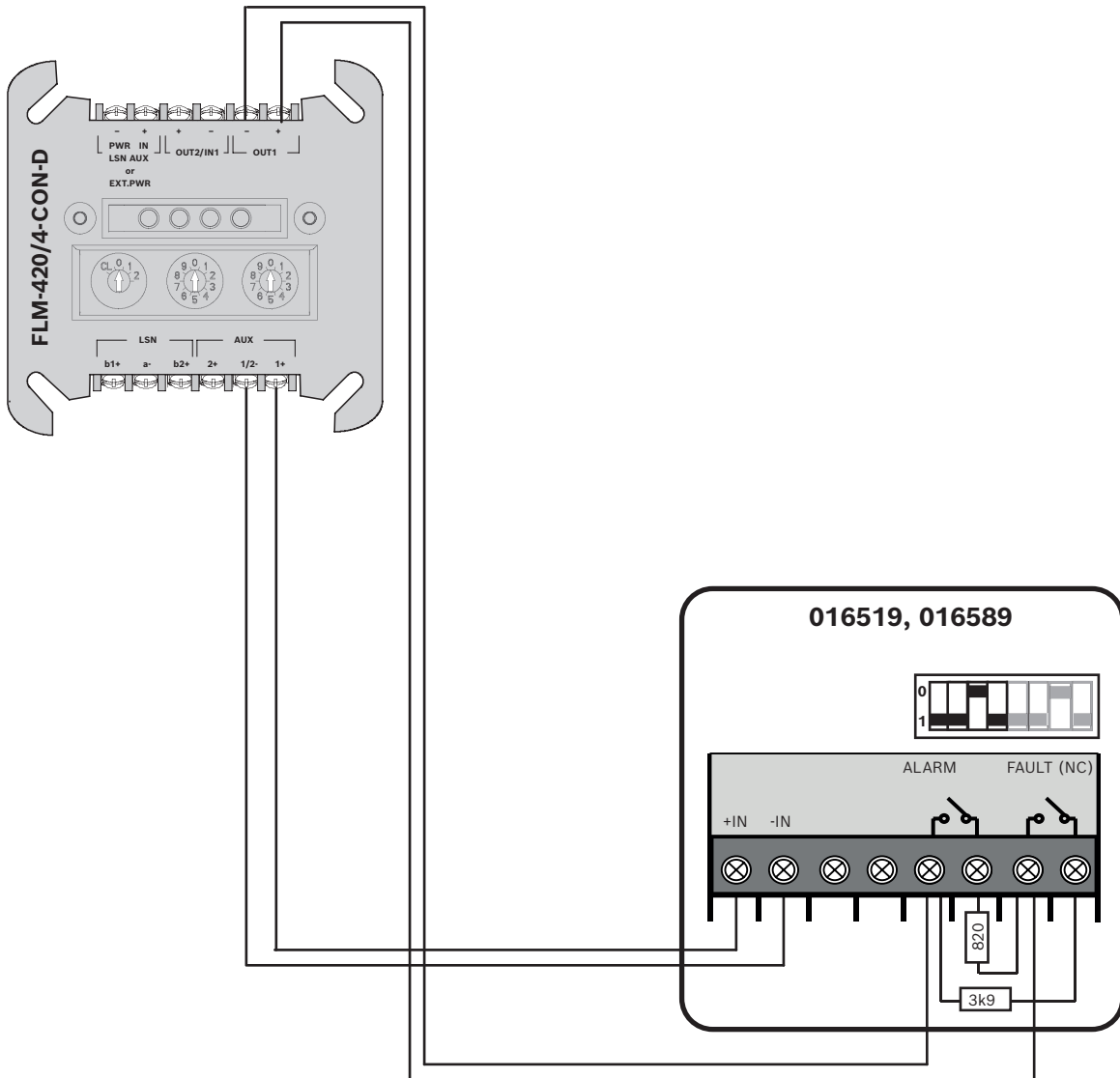
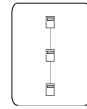


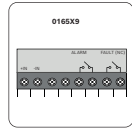
**max. 1 x 0165X9**



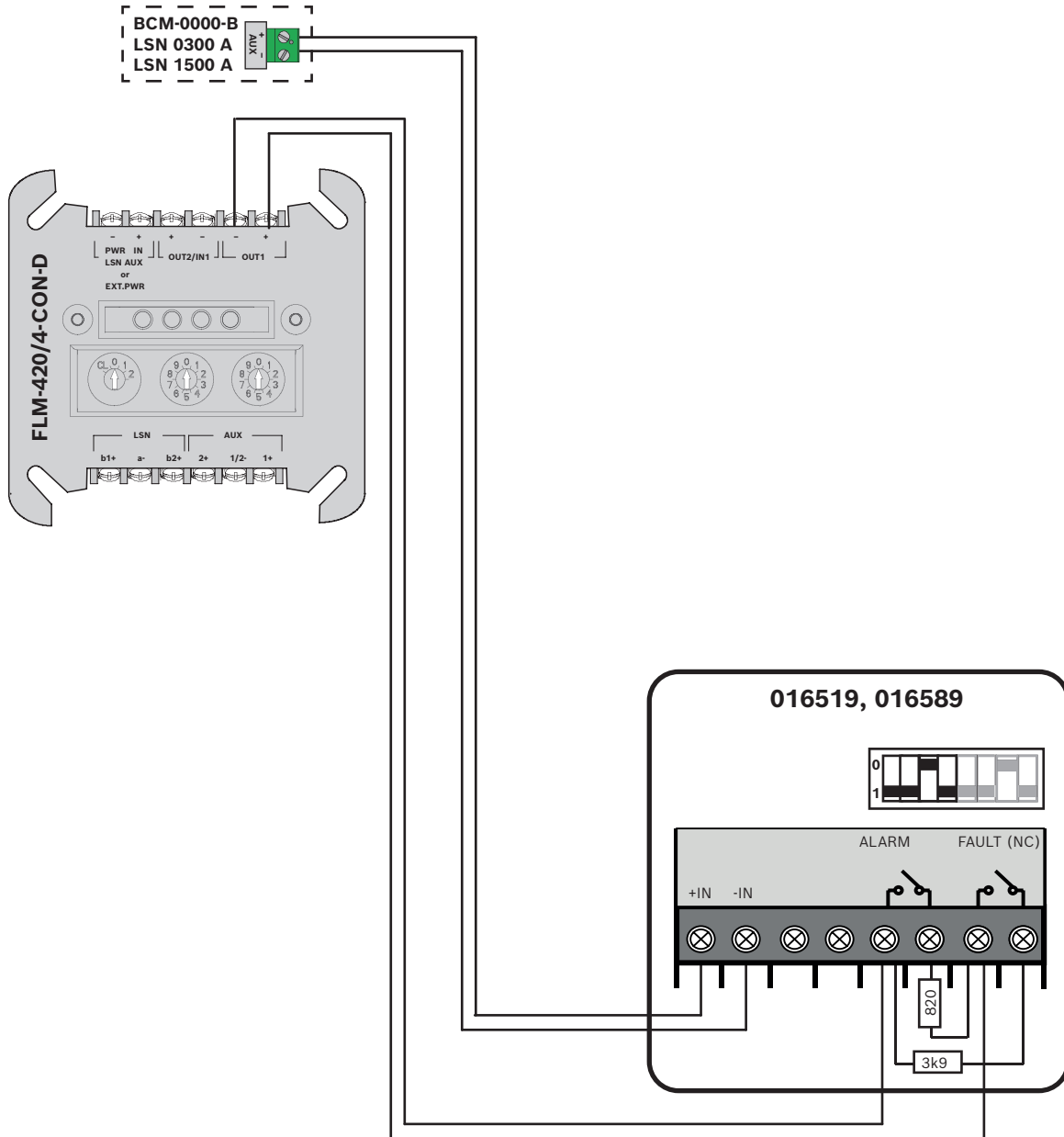
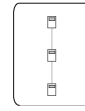


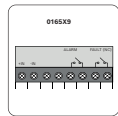
**016519, 016589  
IR3 Flame Detector**



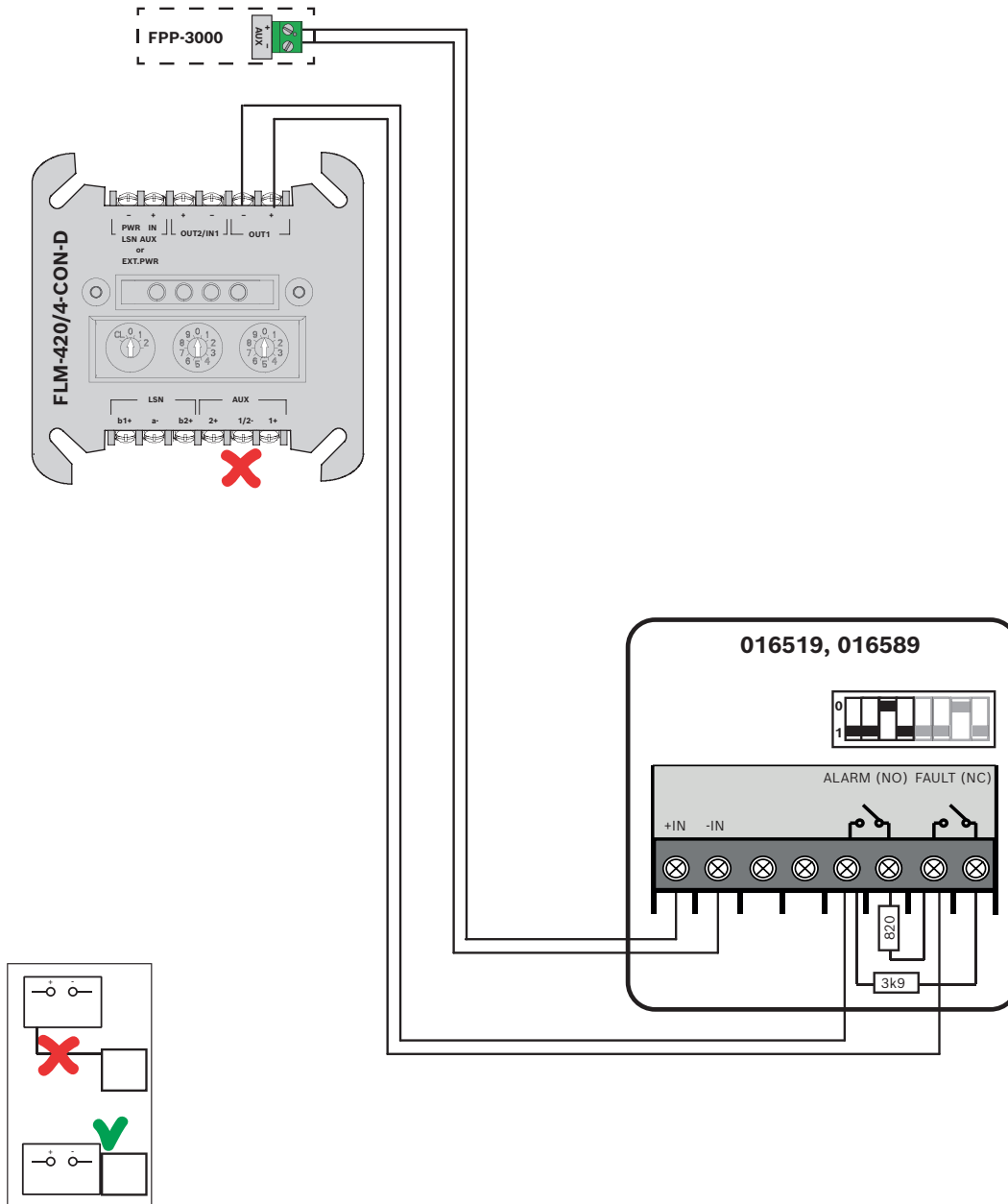


**016519, 016589  
IR3 Flame Detector**



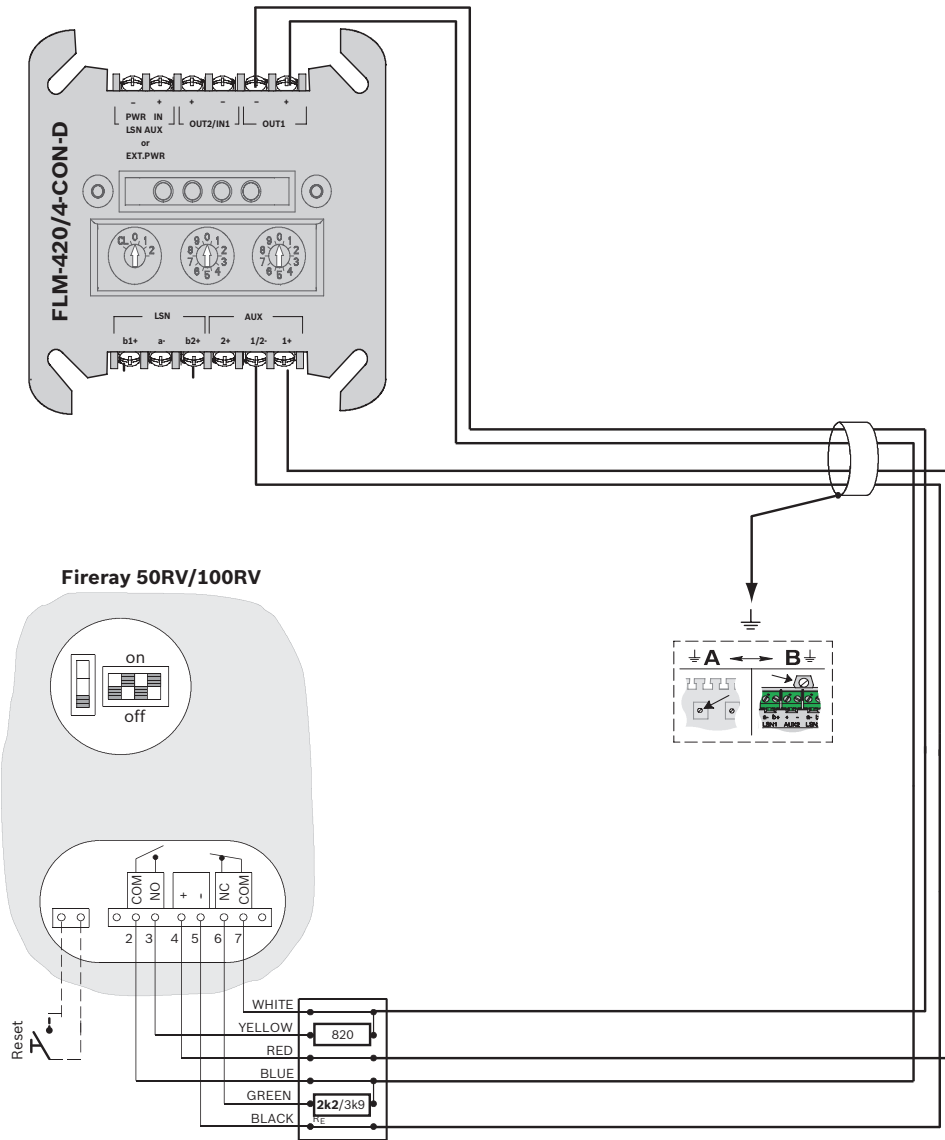
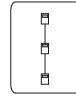


**016519, 016589  
IR3 Flame Detector**





**Fireray 50RV  
Fireray 100RV**

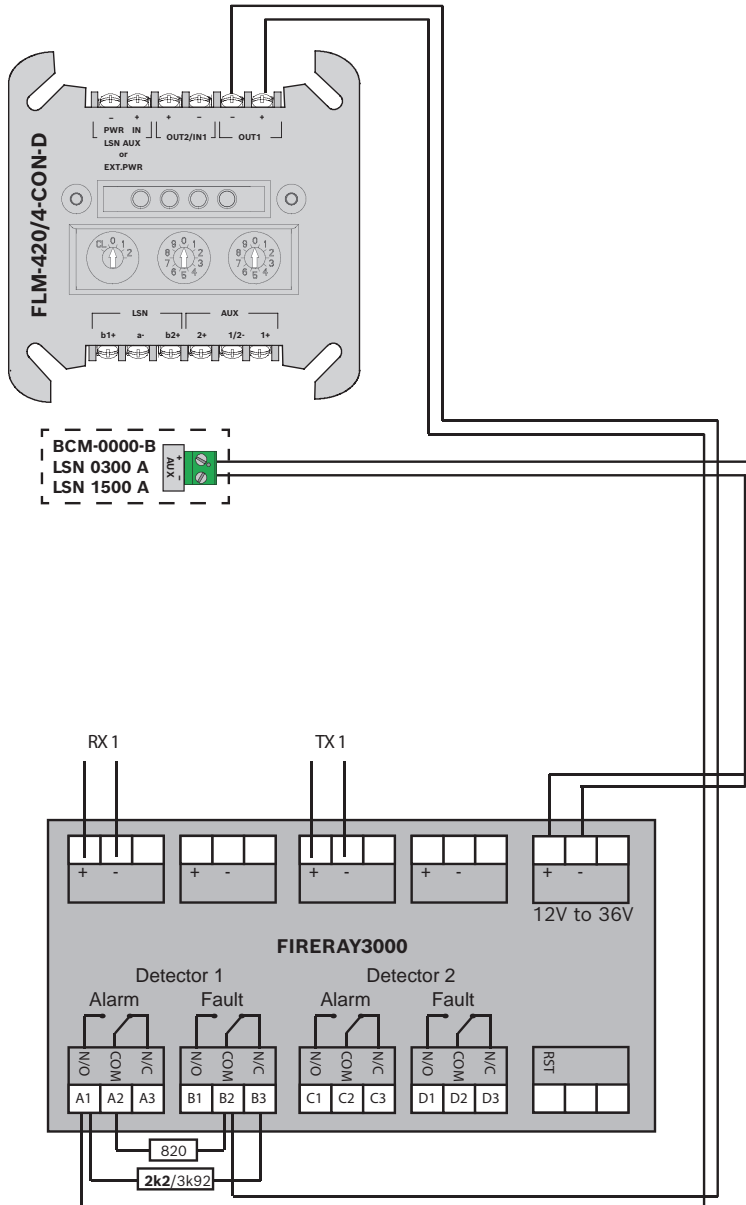






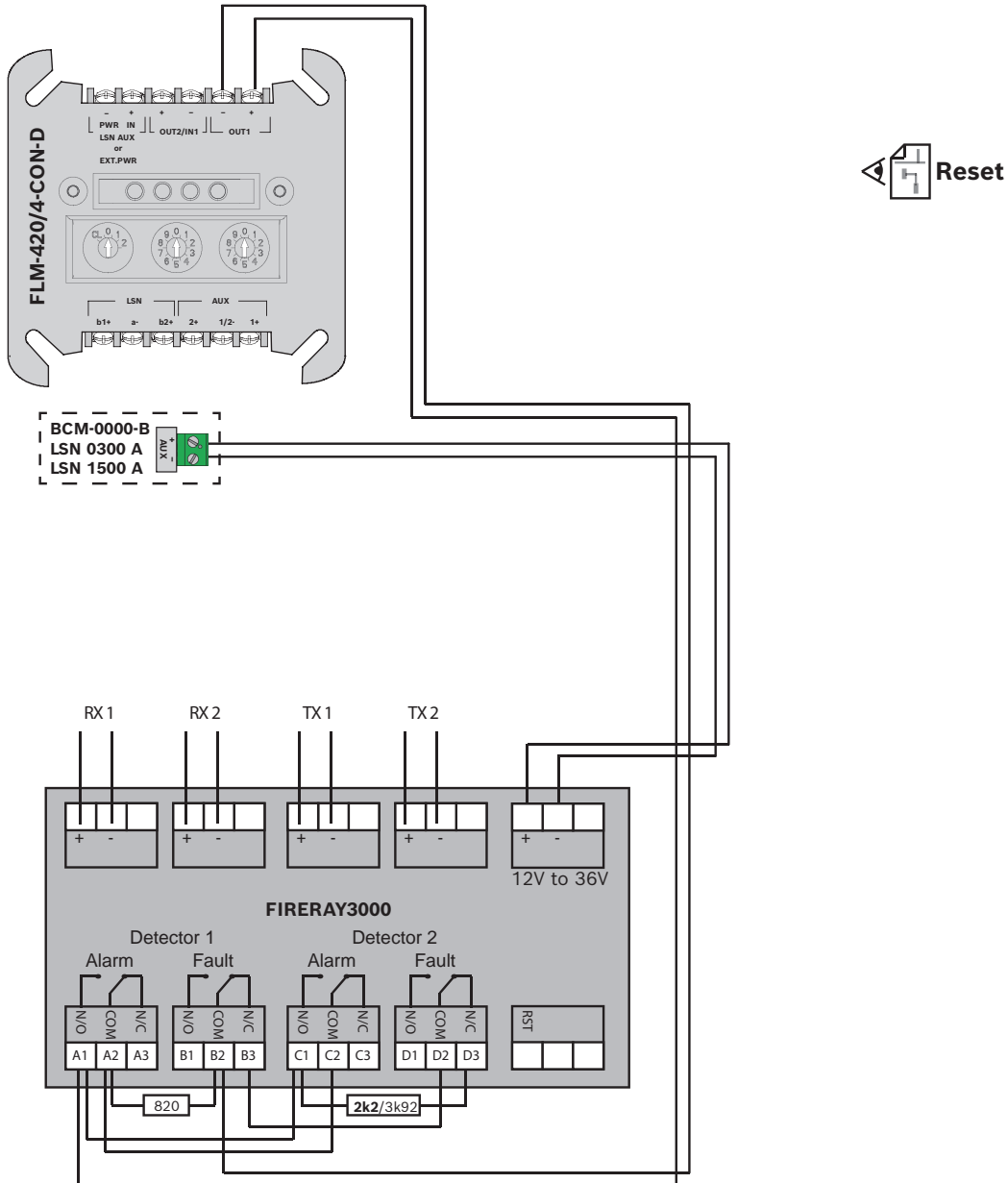
**FIRERAY3000**

1 x





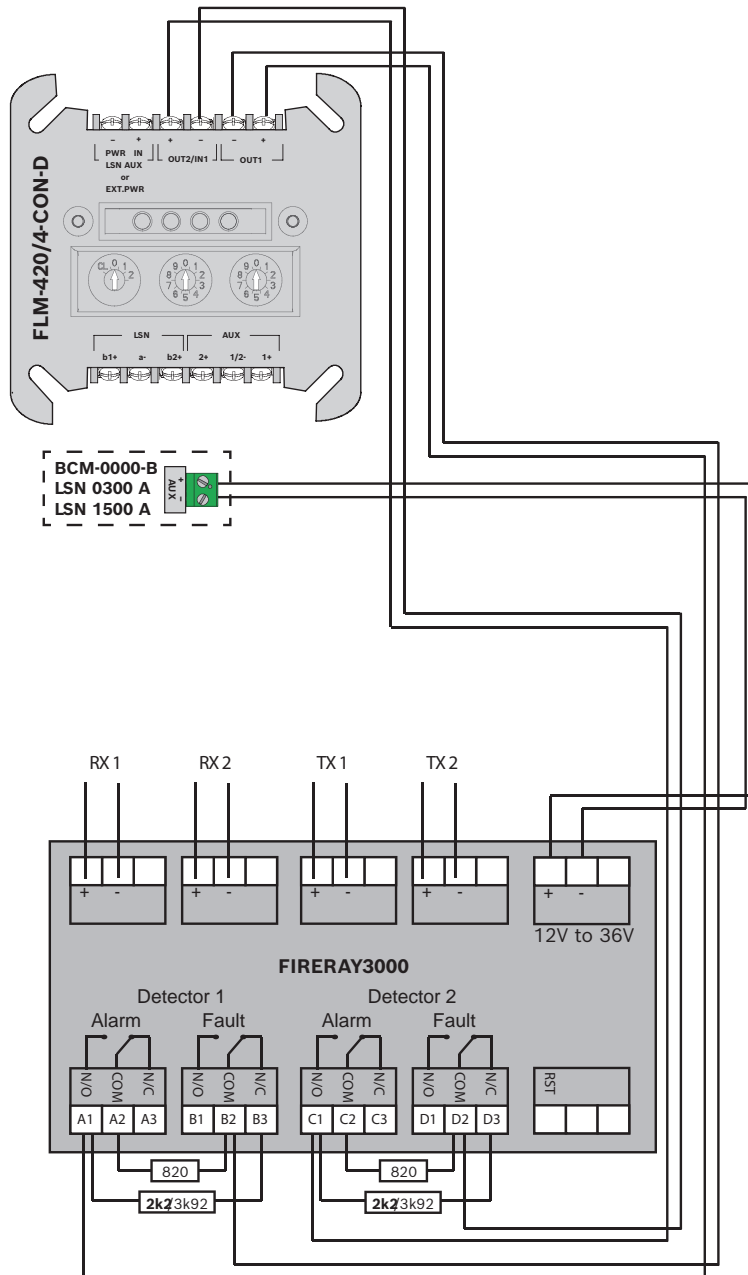
**FIRERAY3000**  
2 x **OUT1**





**FIRERAY3000**

**2 x**  **OUT1+2**

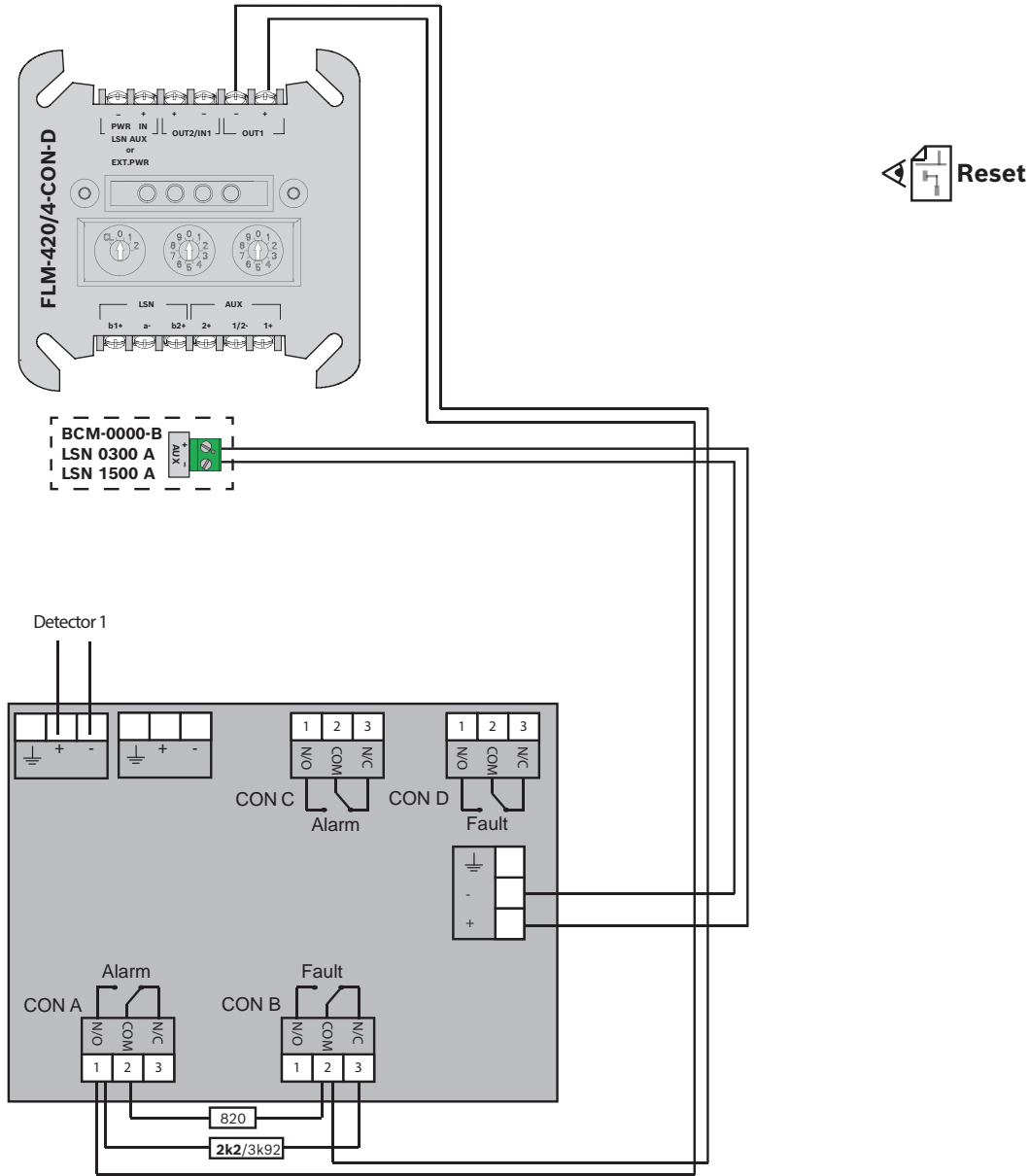


 **Reset action**



**FIRERAY5000**

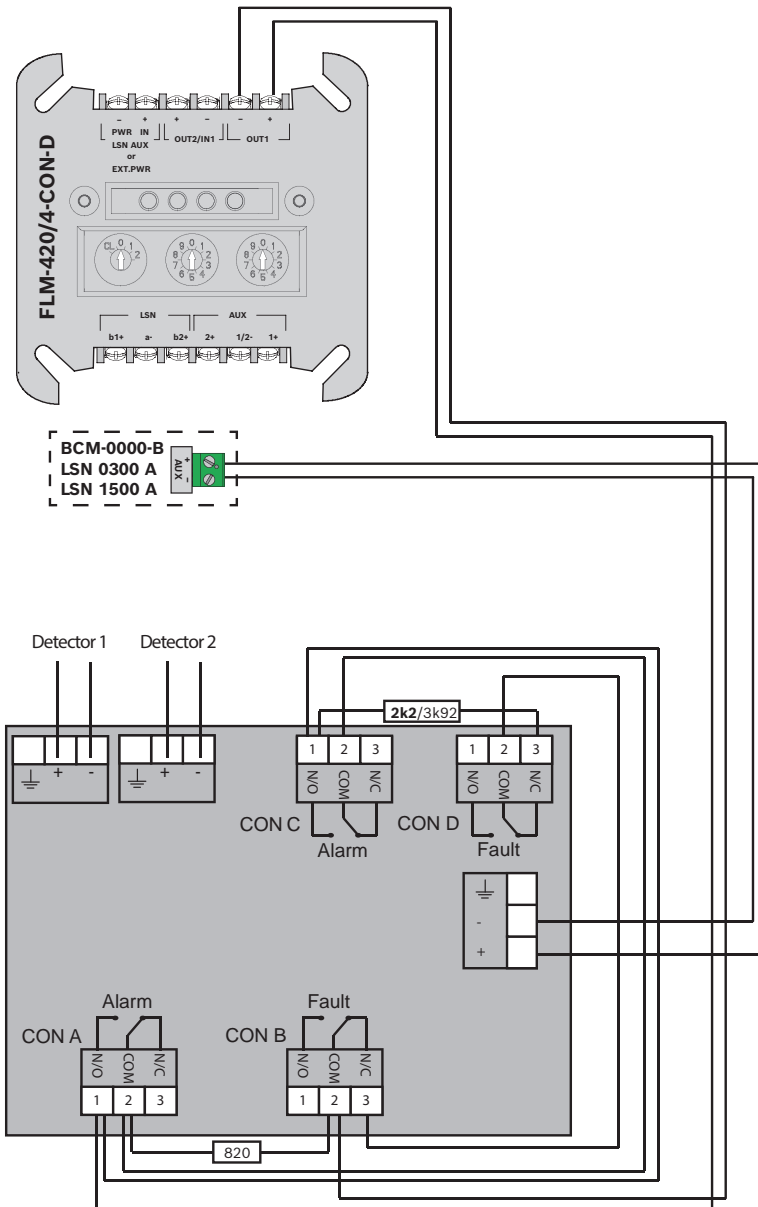
1 x





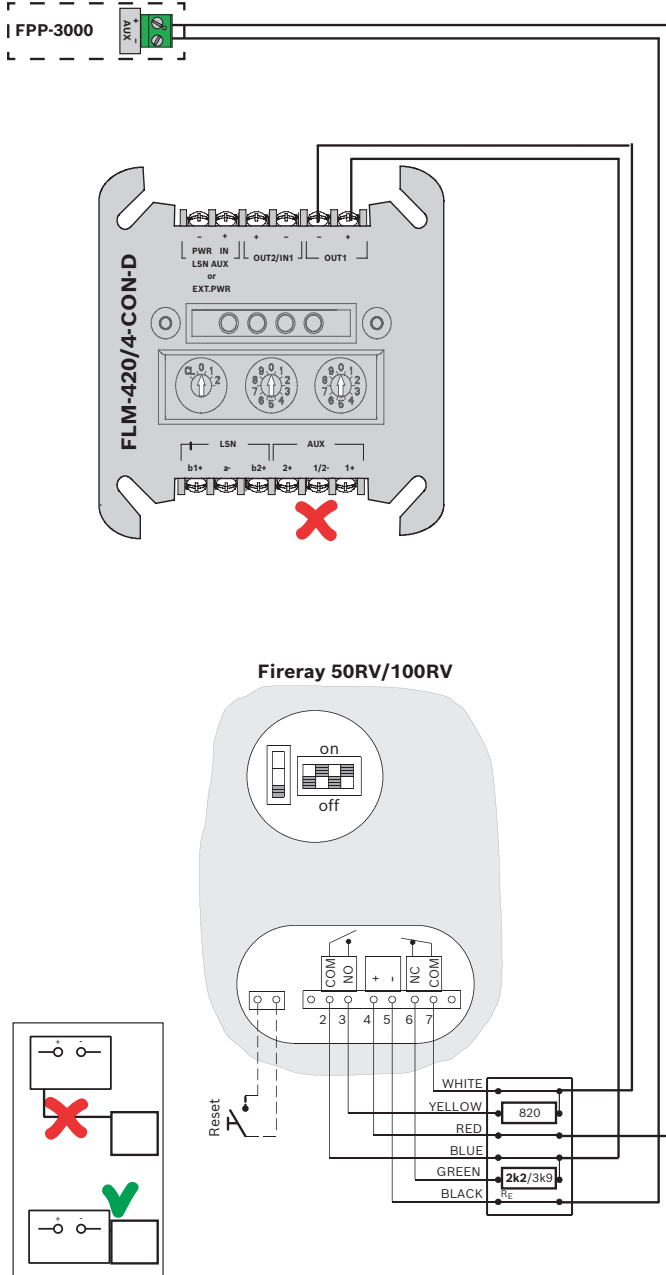
**FIRERAY5000**

**2 x OUT1**





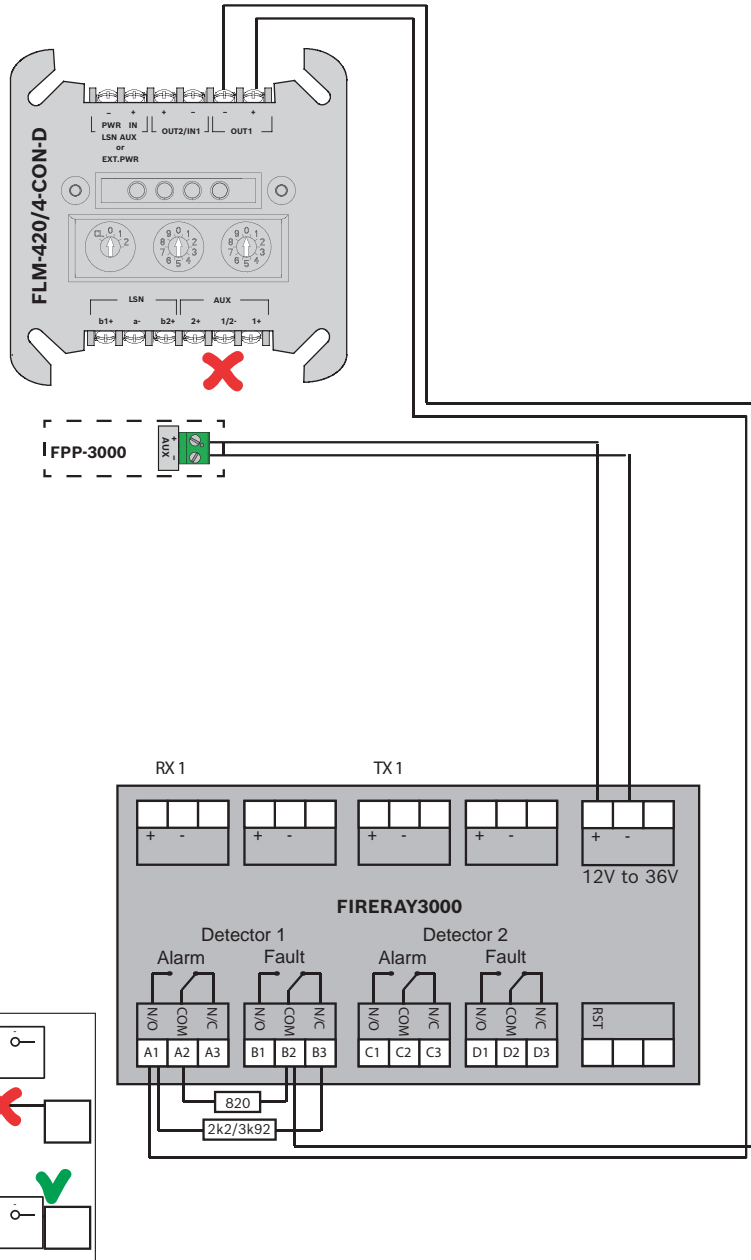
**Fireray 50RV  
Fireray 100RV**



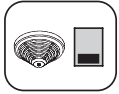


**FIRERAY3000**

1 x

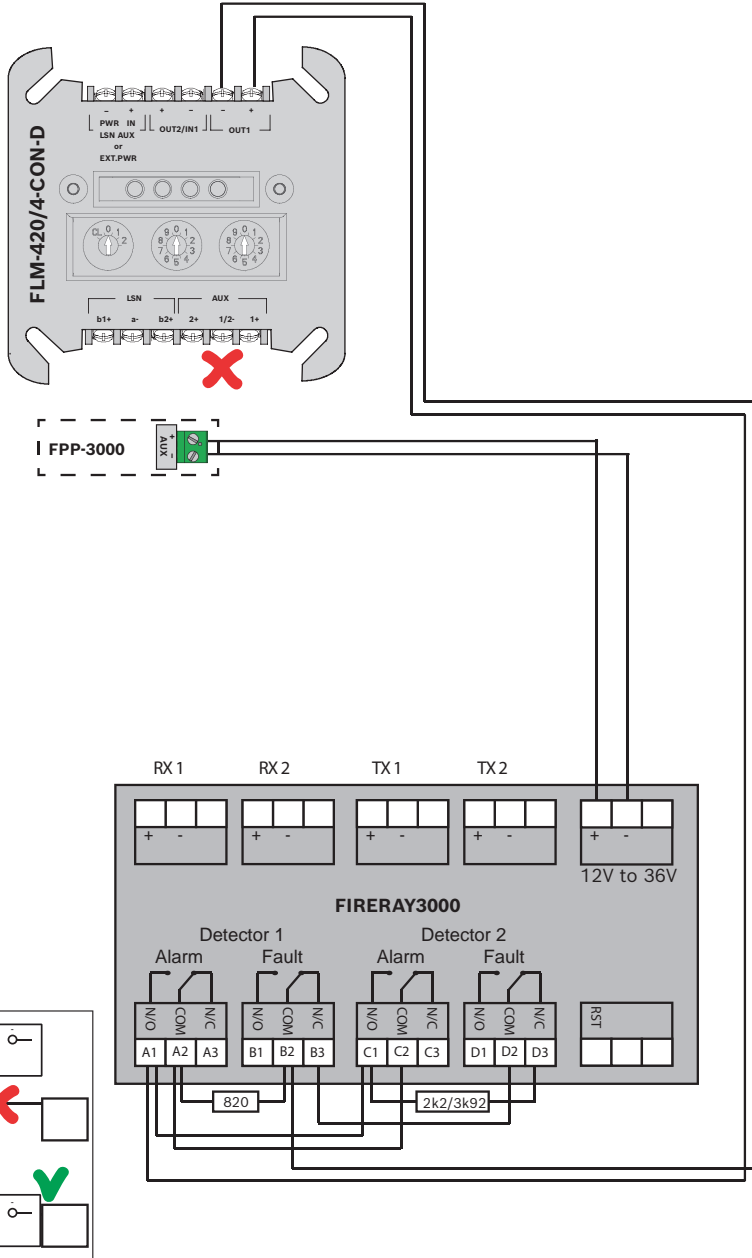


**Reset action**



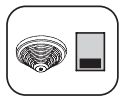
**FIRERAY3000**

2 x  **OUT1**



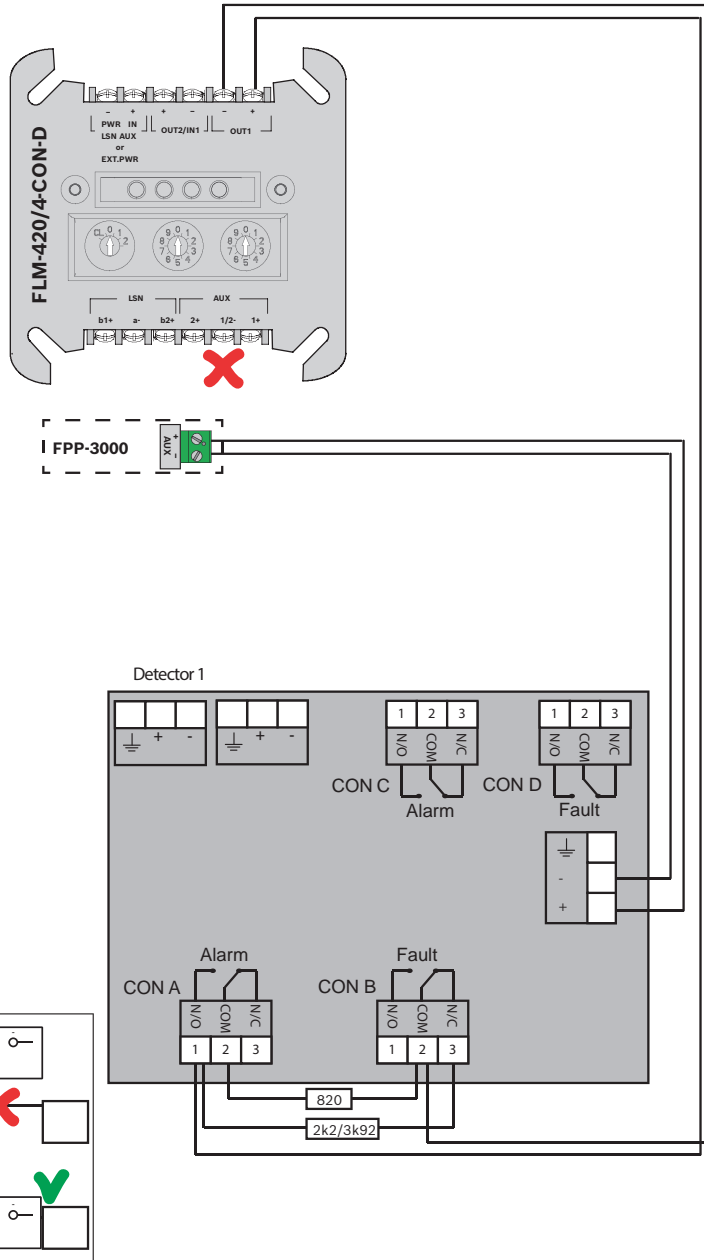
 **Reset action**





**FIRERAY5000**

1 x

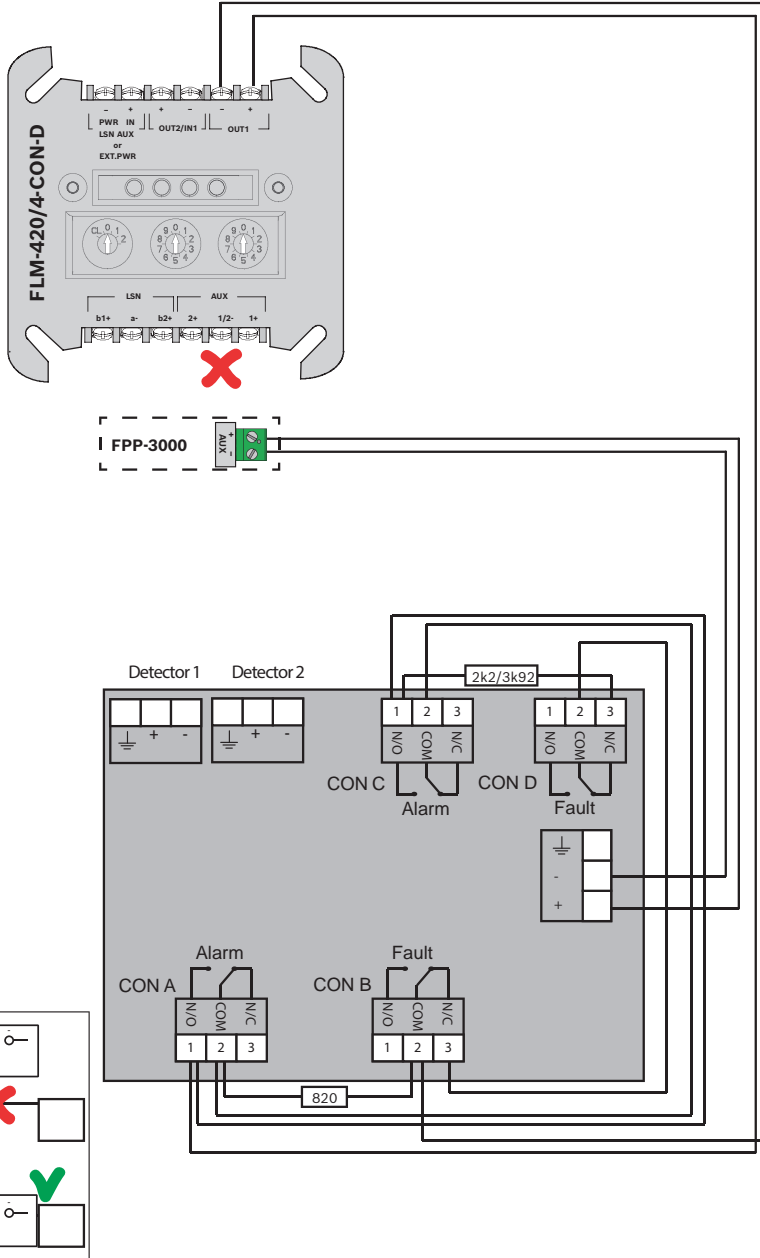


Reset action

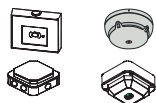


**FIRERAY5000**

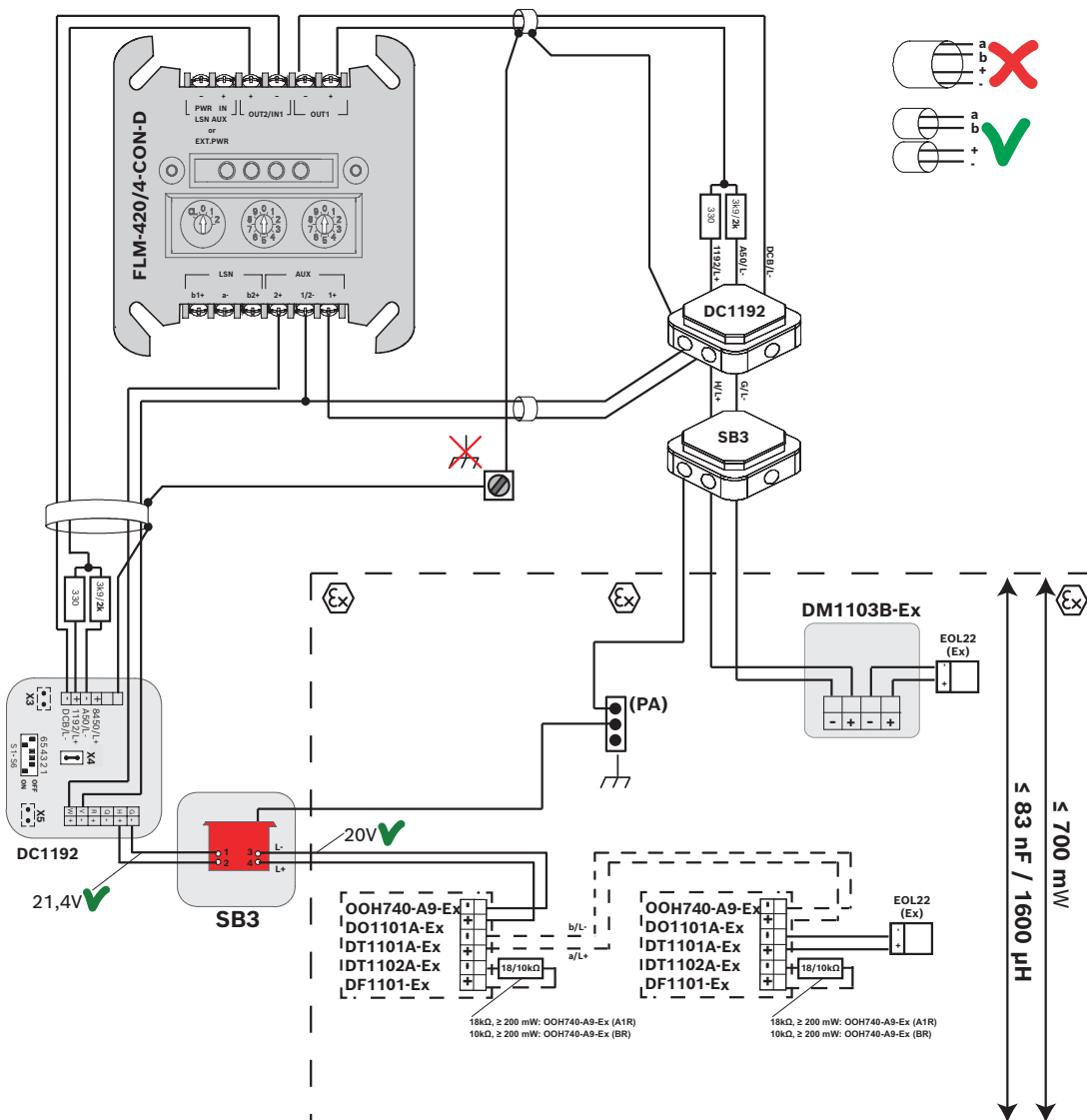
**2 x OUT1**



**Reset action**

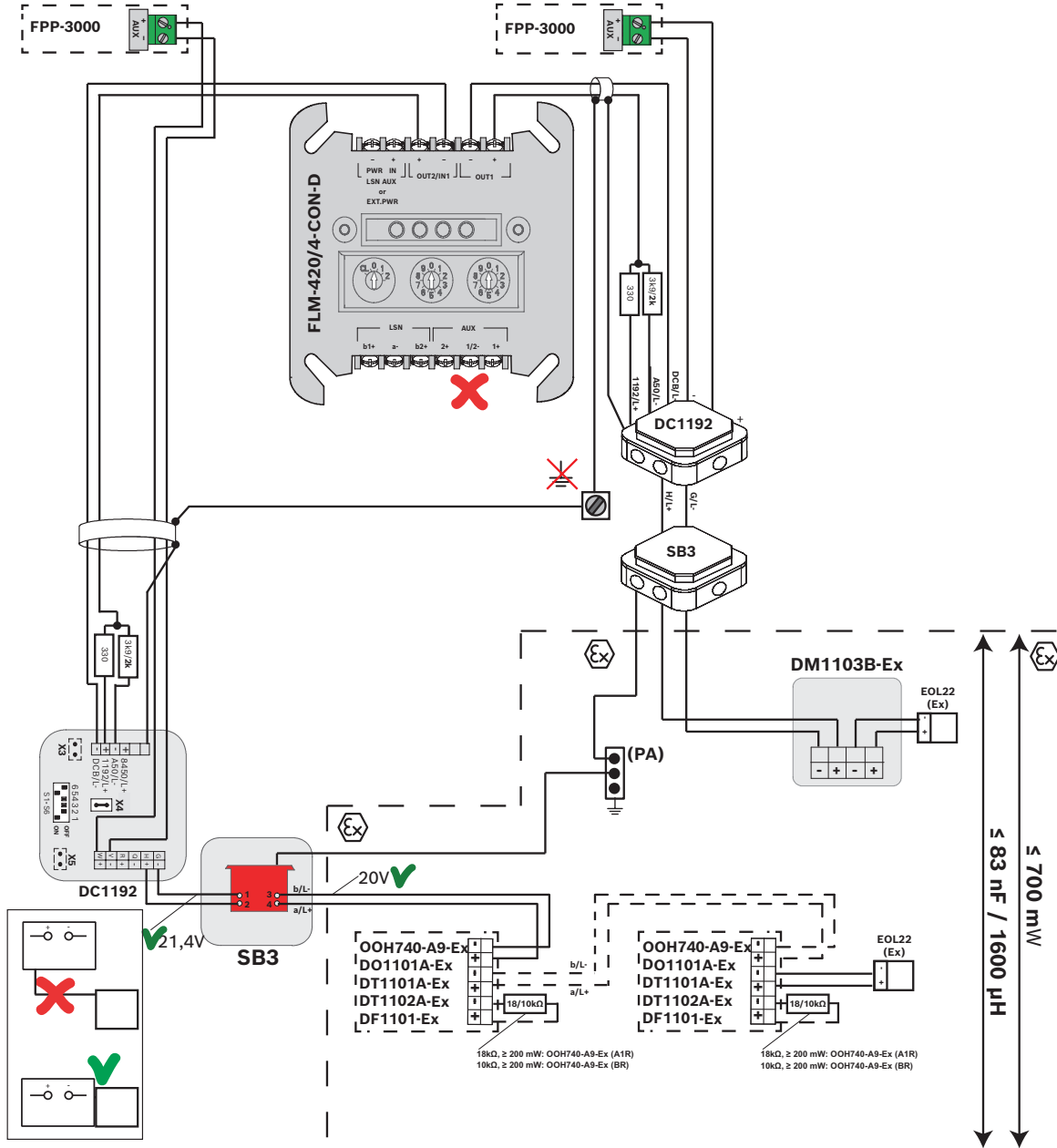


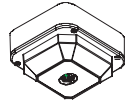
DC1192, SB3  
OOH740-A9-Ex  
DO1101A-Ex  
DT1101A-Ex-  
/DT1102A-Ex  
DF1101-Ex



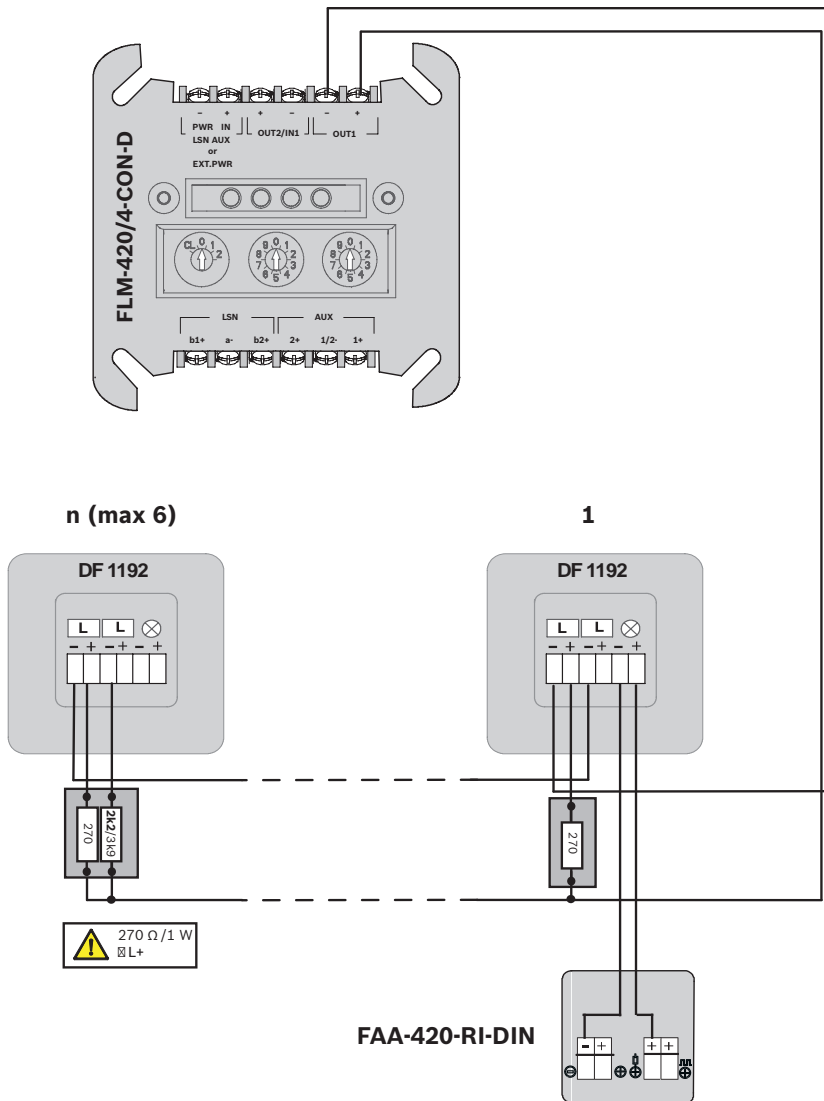


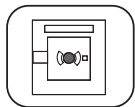
DC1192, SB3  
 OOH740-A9-Ex  
 DO1101A-Ex  
 DT1101A-Ex/DT1102A-Ex  
 DF1101-Ex  
 DM1103B-Ex



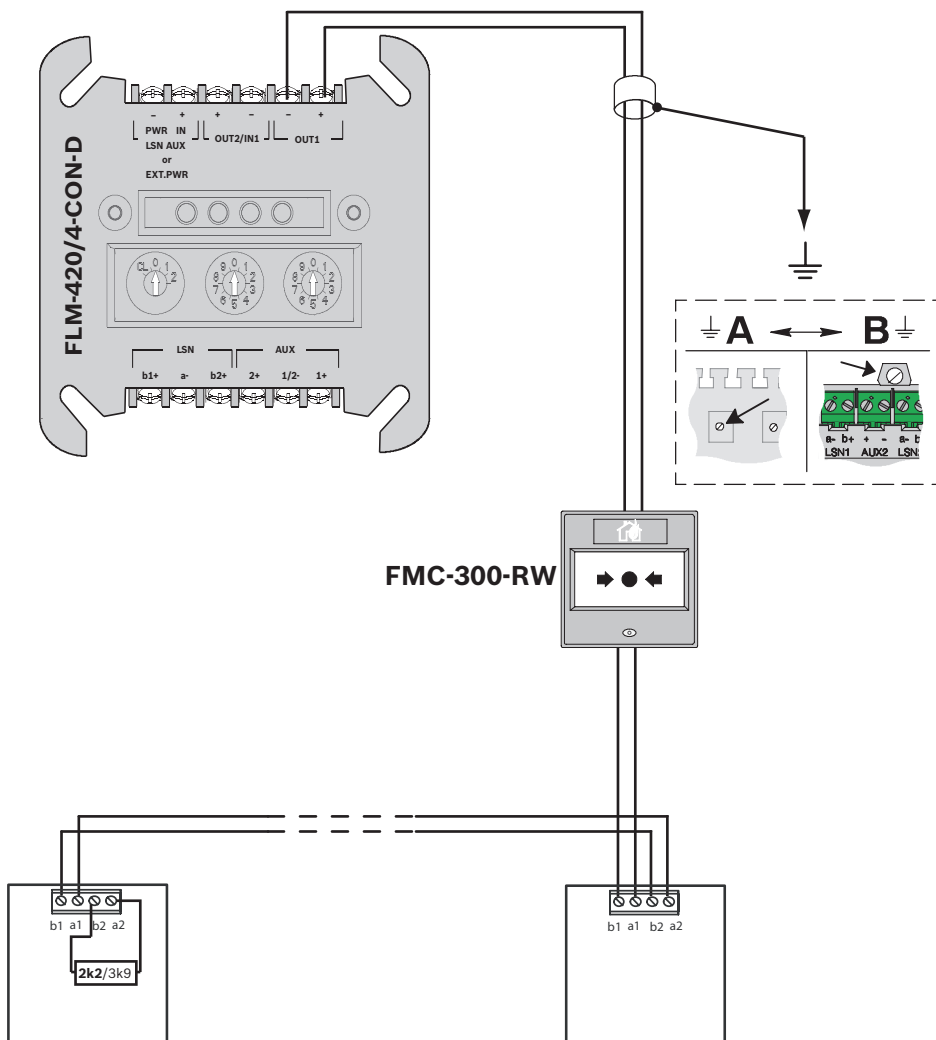
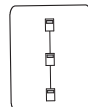


**DF 1192**



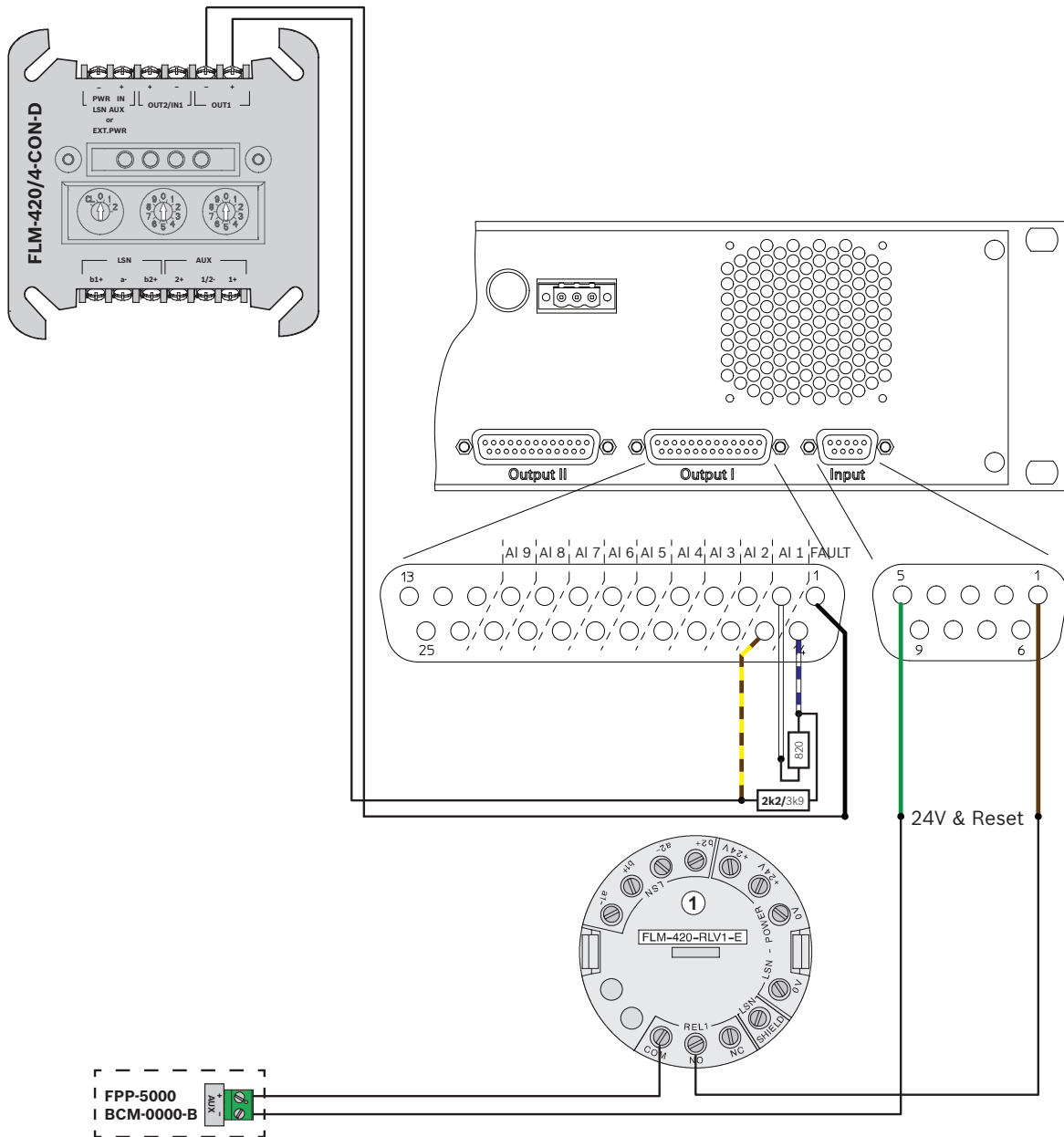


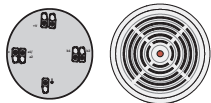
**FMC-300-RW**



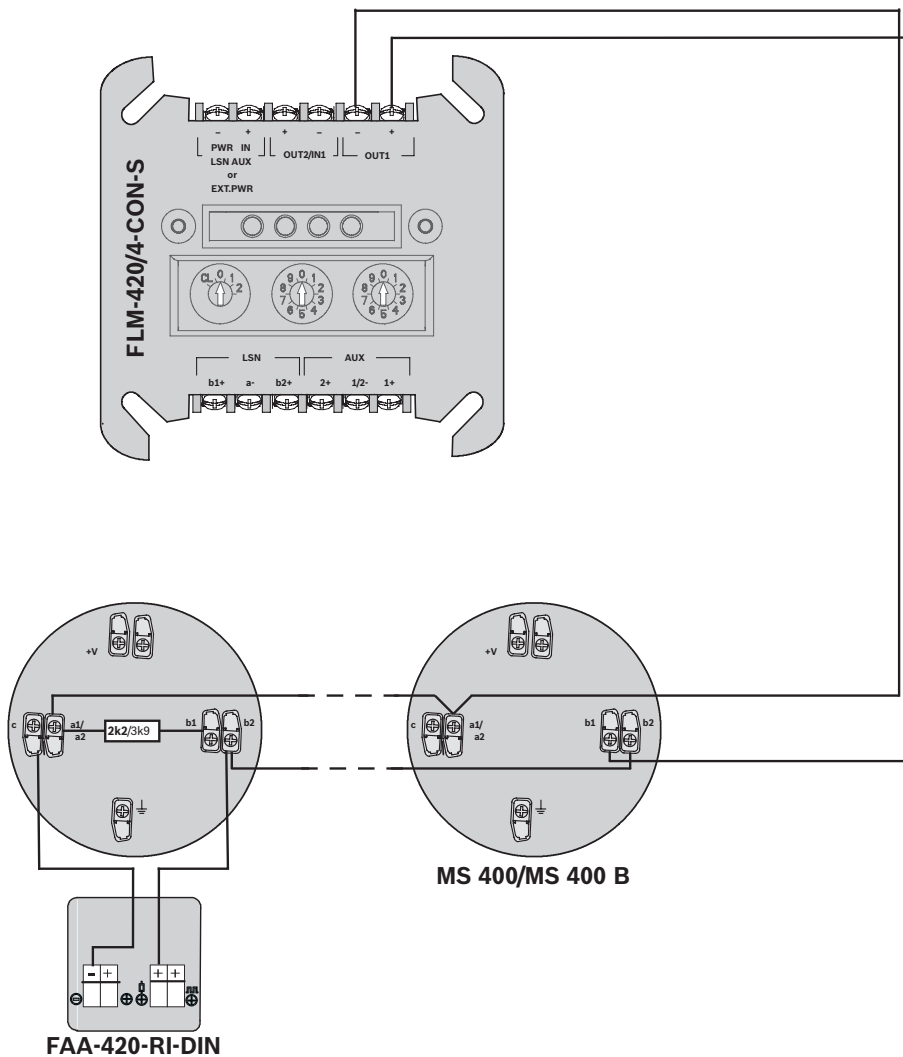


N4387A

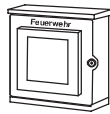
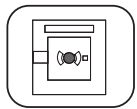




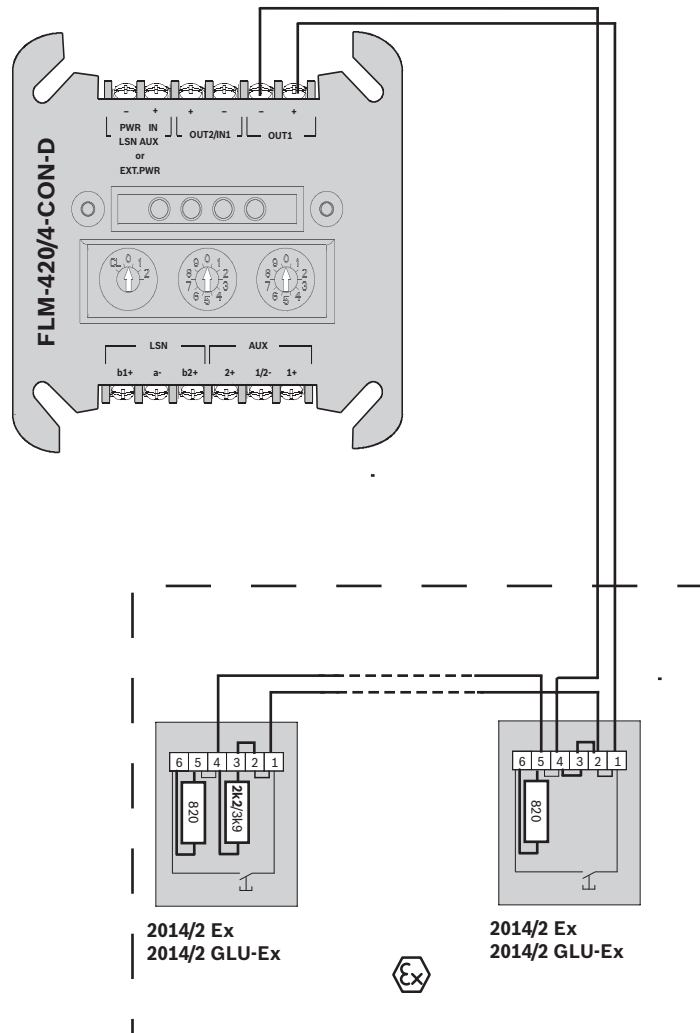
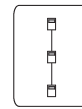
MSS 400, MSS 400 B  
 FCH-320-T320  
 FCH-T320-R470, FCH-T320-FSA  
 FCP-O320, FCP-O320-R470  
 FCP-OC320, FCP-OC320-R470  
 FCP-OT320, FCP-OT320-R470

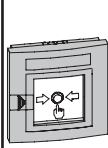
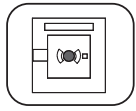




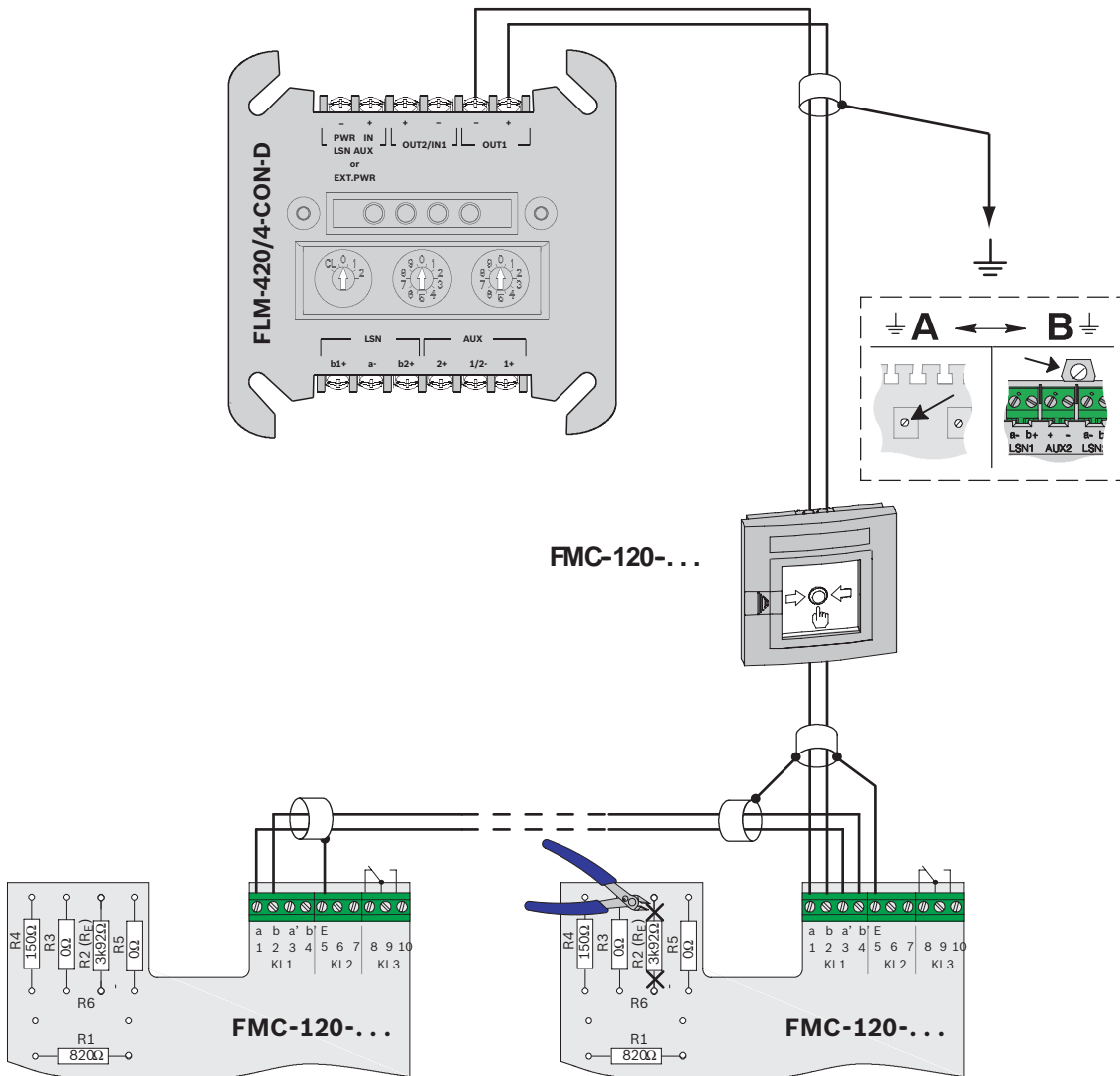
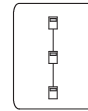


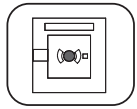
**2014/2 Ex**  
**2014/2 GLU-Ex**



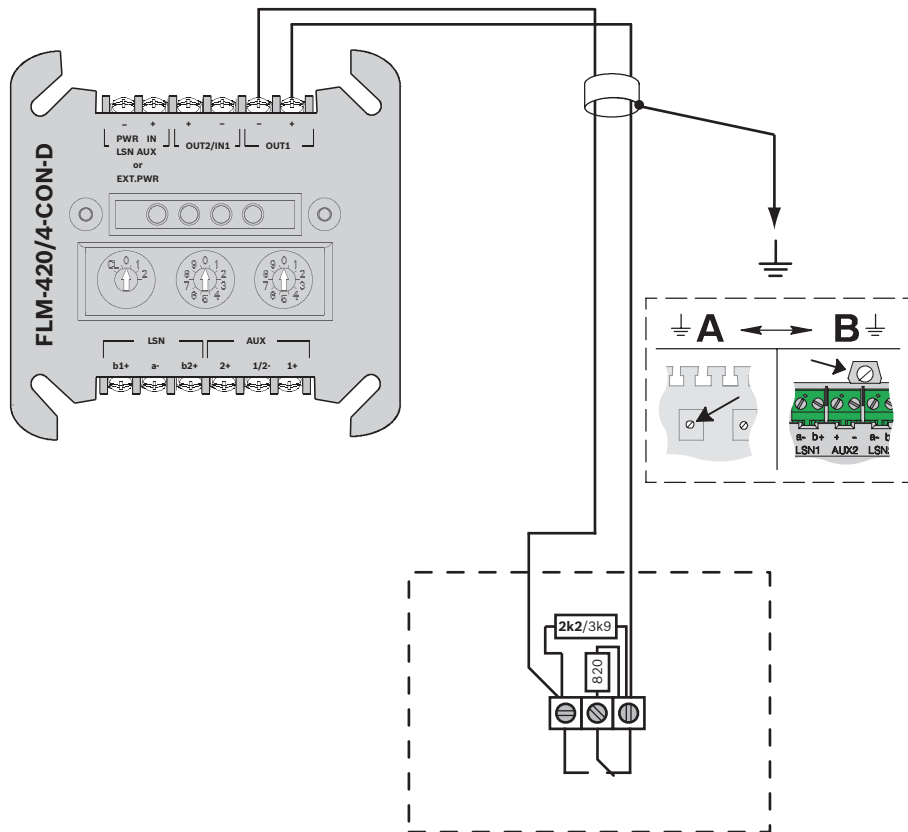
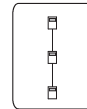


**FMC-120-DKM-G-R FMC-120-DKM-G-Y**  
**FMC-120-DKM-H-R FMC-120-EST-G-B**  
**FMC-120-DKM-G-B**  
**FMC-120-DKM-H-B**



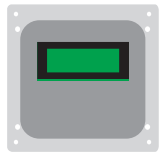


NO



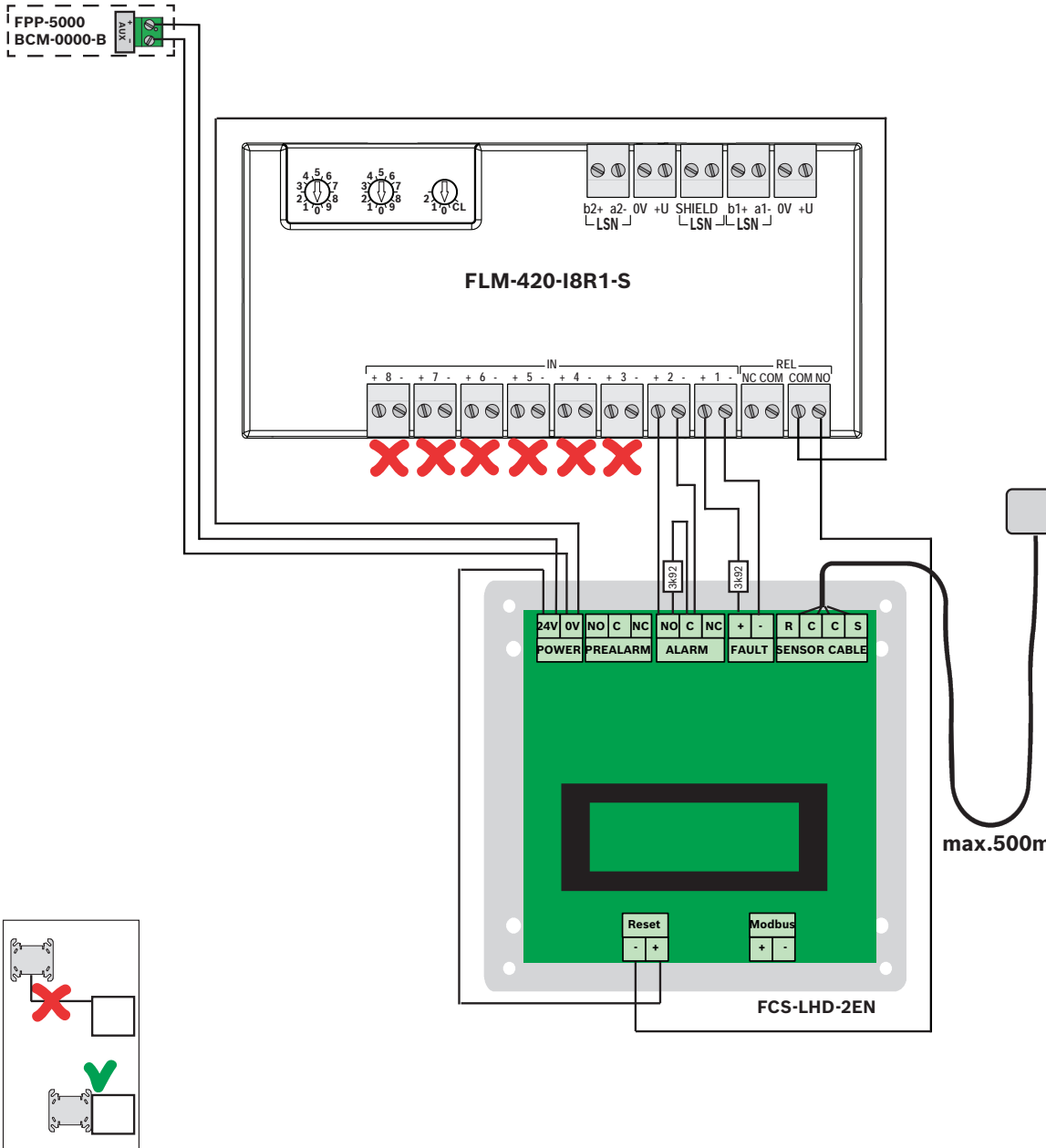
2.5.2

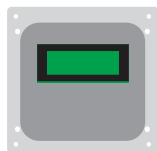
FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





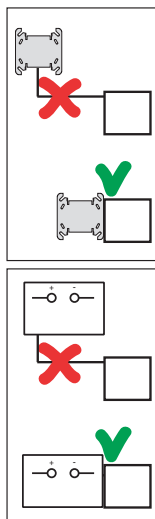
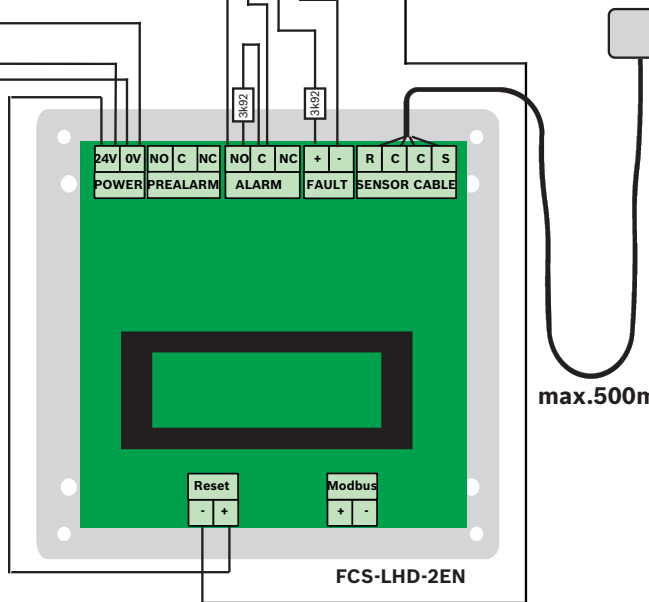
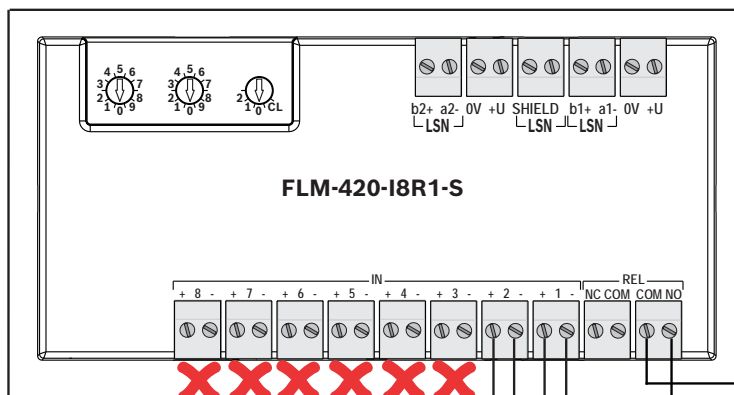
ProReact EN Analogue

FCS-LHD-2EN

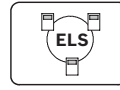


ELS

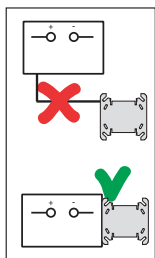
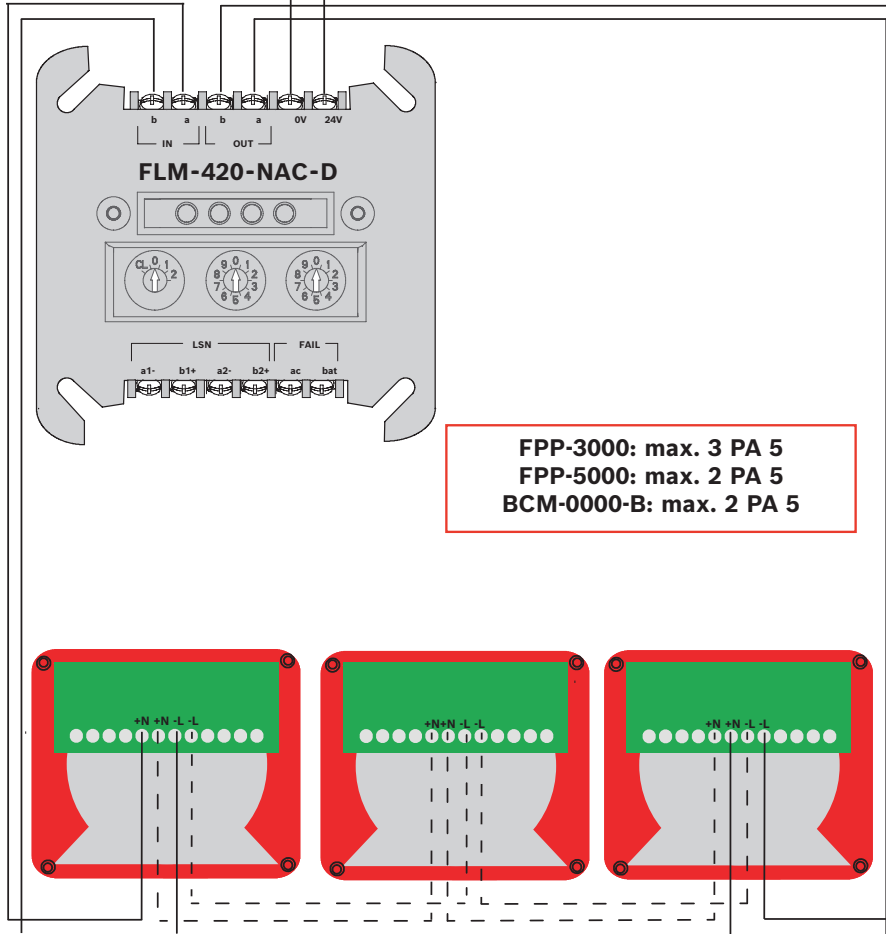
FPP-3000(ZSP135-DR)  
FPP-5000  
BCM-0000-B



### 2.5.3 FLM-420-NAC-D/S

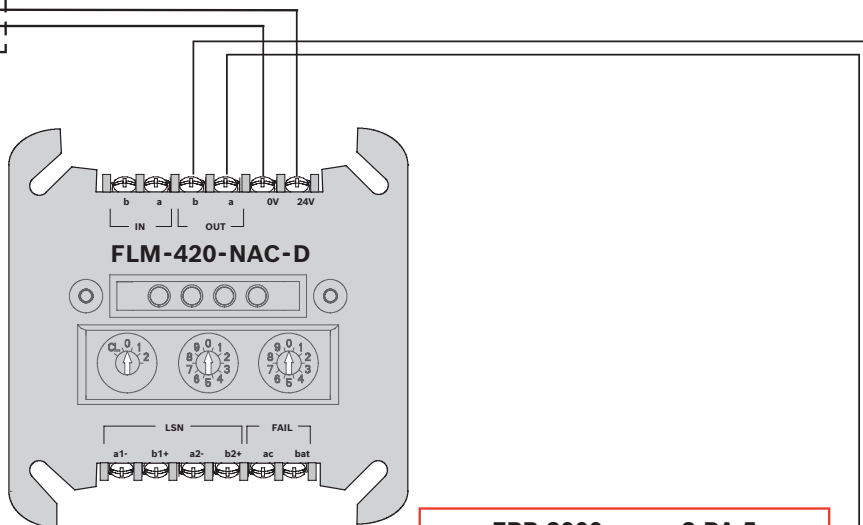


FPP-3000(ZSP135-DR)  
FPP-5000  
BCM-0000-B

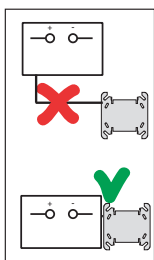
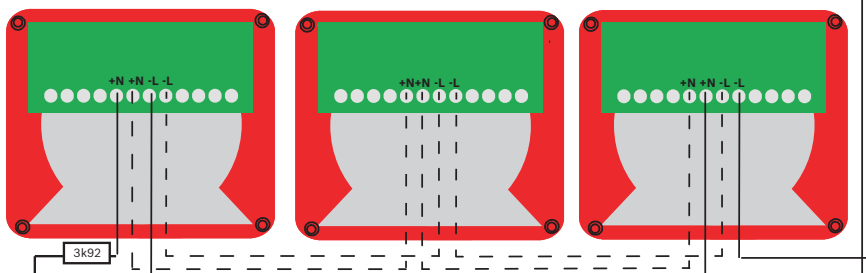


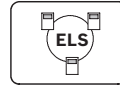


FPP-3000  
FPP-5000  
BCM-0000-B

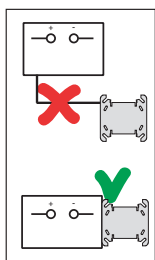
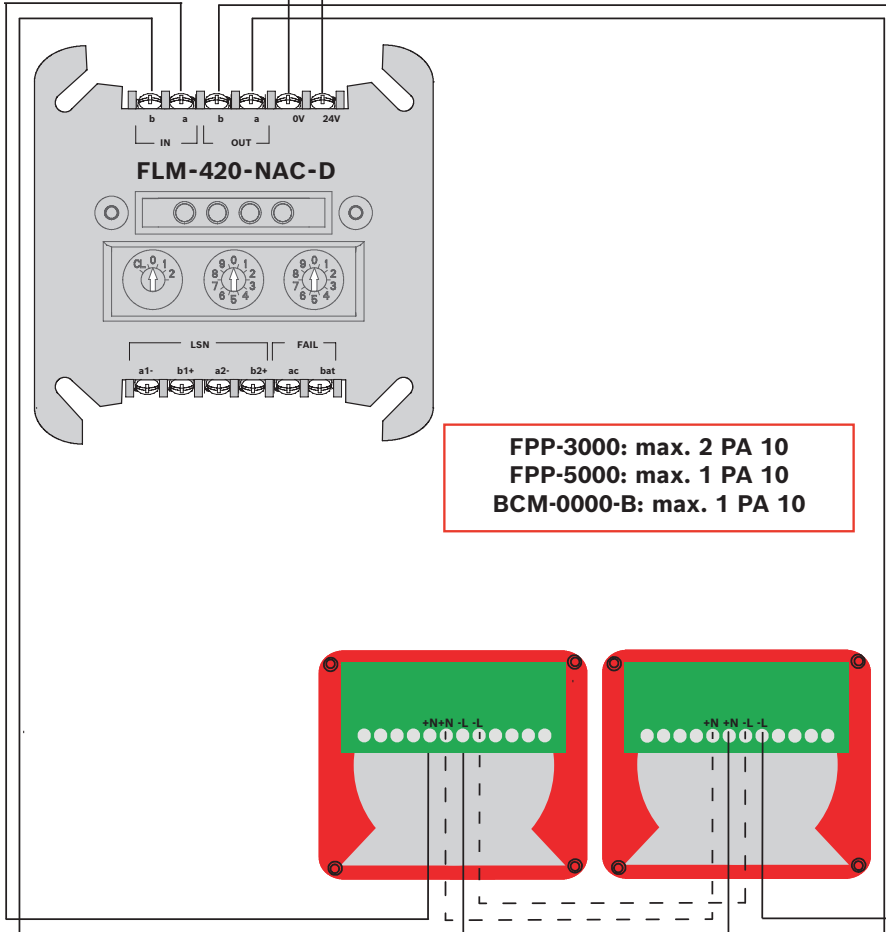


**FPP-3000: max. 3 PA 5**  
**FPP-5000: max. 2 PA 5**  
**BCM-0000-B: max. 2 PA 5**





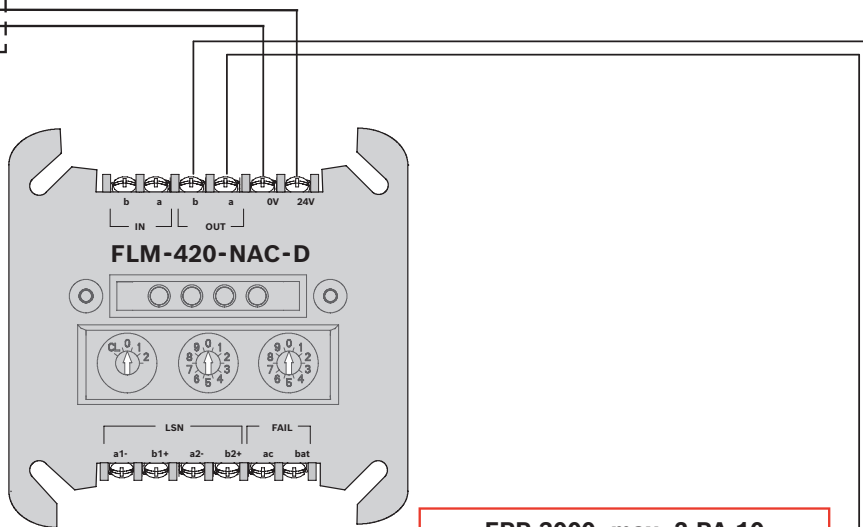
FPP-3000(ZSP135-DR)  
 FPP-5000  
 BCM-0000-B



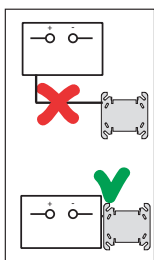
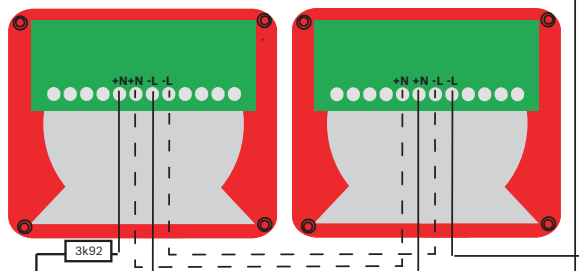


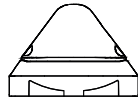


FPP-3000  
FPP-5000  
BCM-0000-B

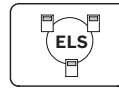


**FPP-3000: max. 2 PA 10**  
**FPP-5000: max. 1 PA 10**  
**BCM-0000-B: max. 1 PA 10**

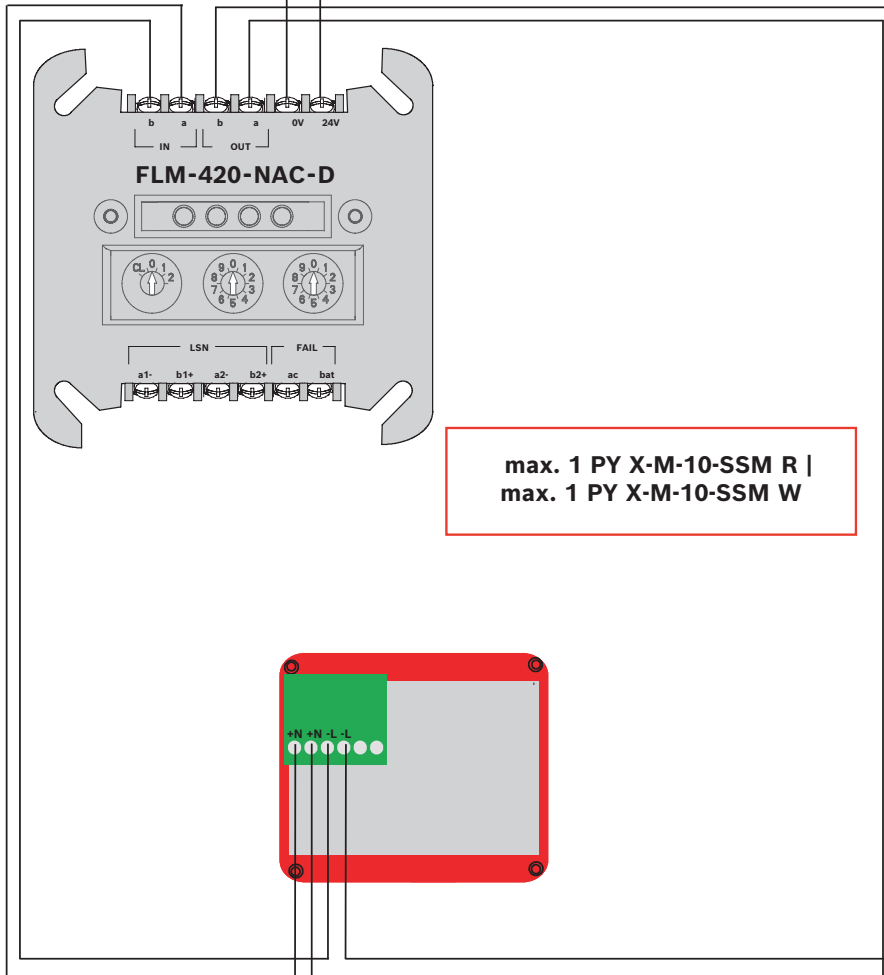




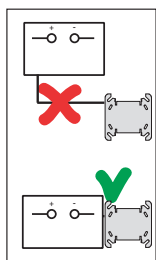
**PY X-M-10-SSM R**  
**PY X-M-10-SSM W**

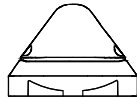


FPP-3000(ZSP-135-DR)  
 FPP-5000  
 BCM-0000-B



**max. 1 PY X-M-10-SSM R |**  
**max. 1 PY X-M-10-SSM W**

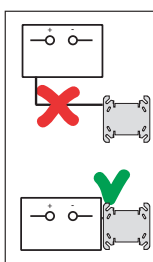
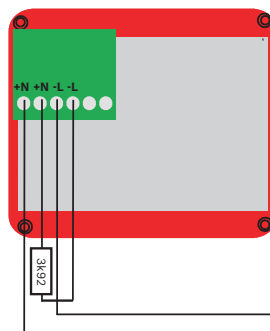
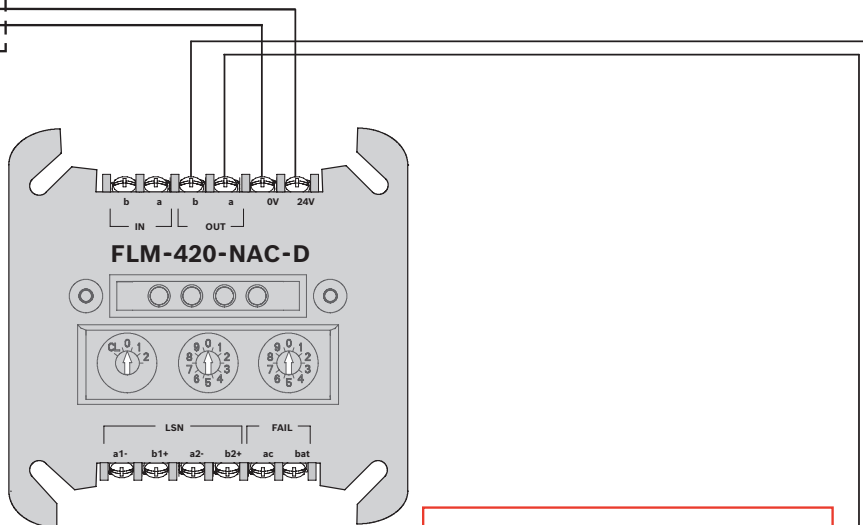




**PY X-M-10-SSM R**  
**PY X-M-10-SSM W**

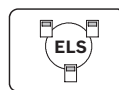


FPP-3000  
 FPP-5000  
 BCM-0000-B

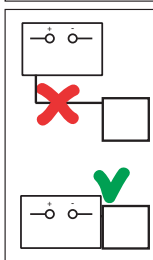
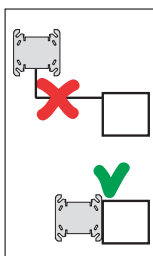
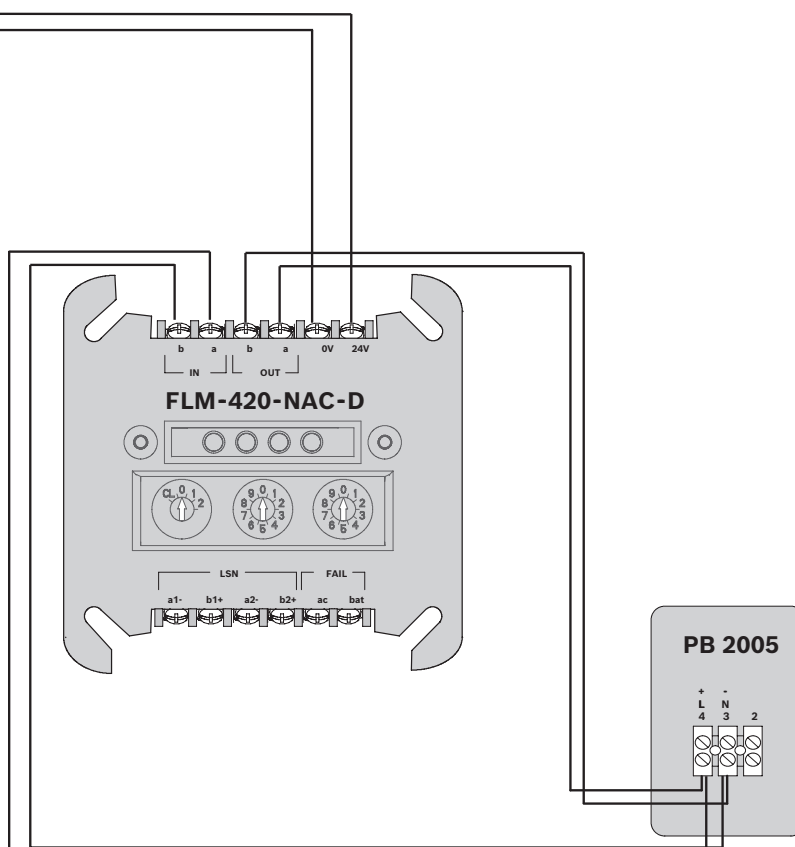




PB 2005

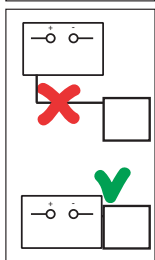
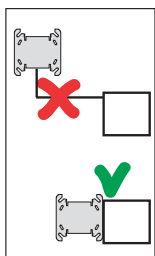
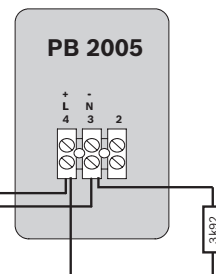
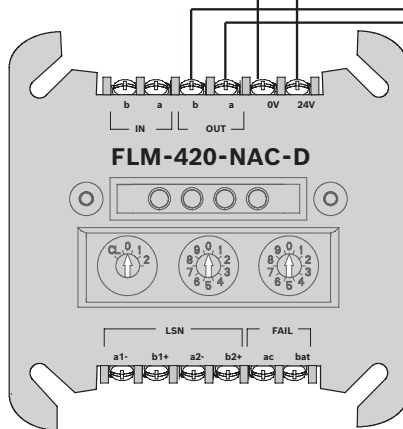


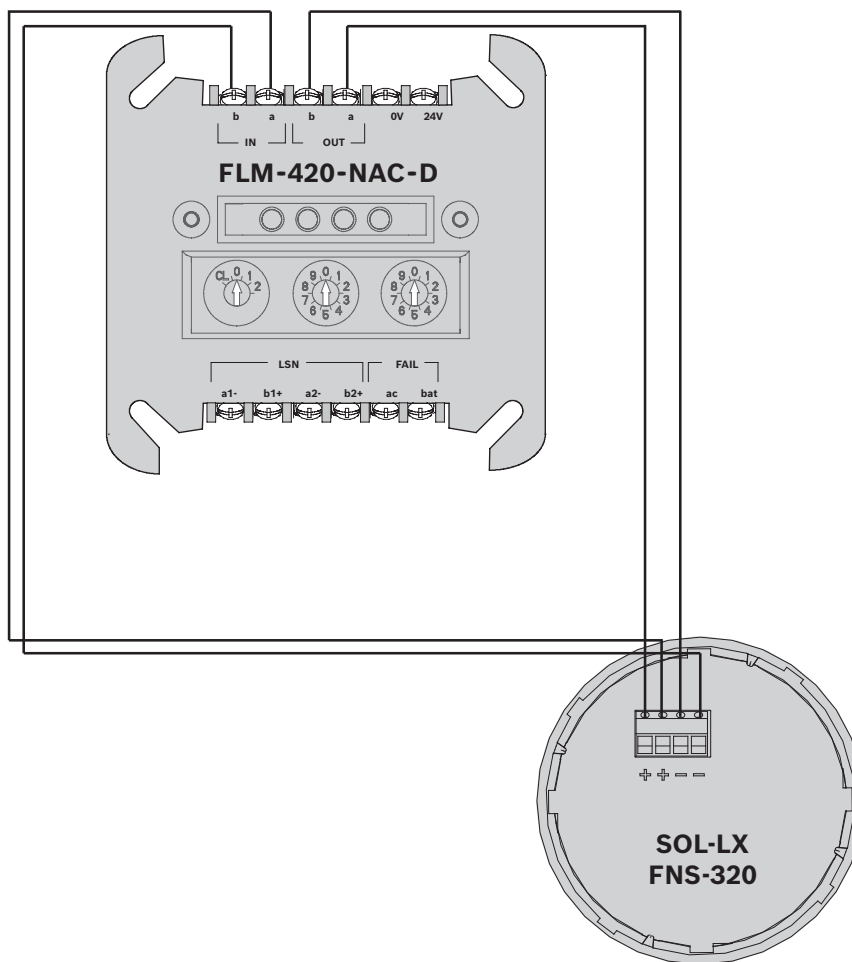
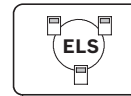
FPP-5000  
BCM-0000-B

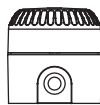




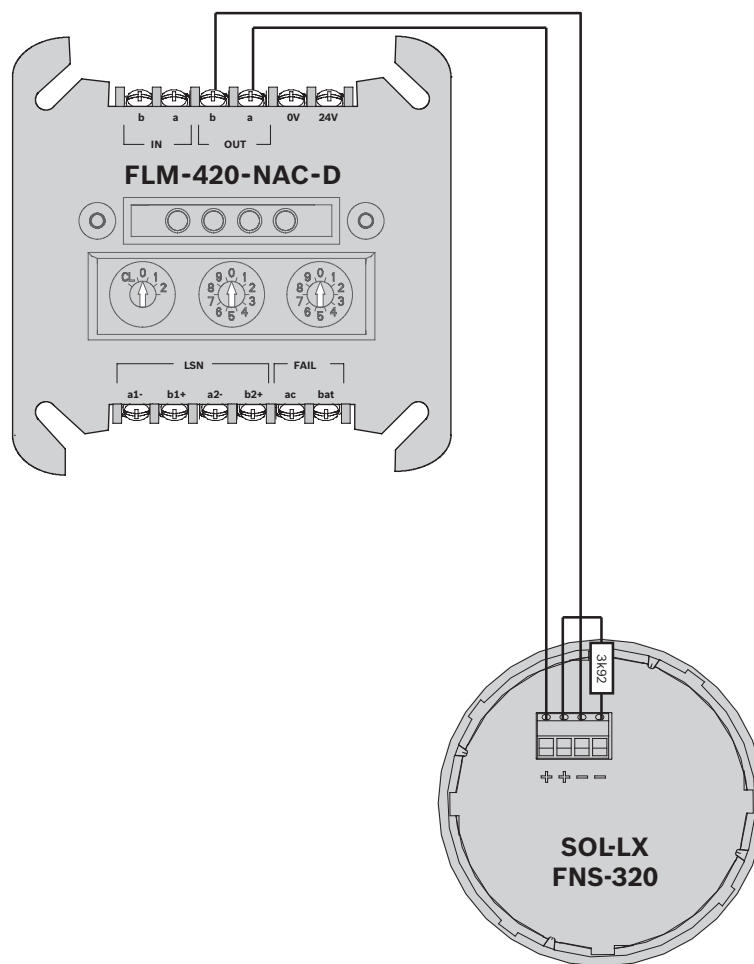
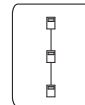
PB 2005

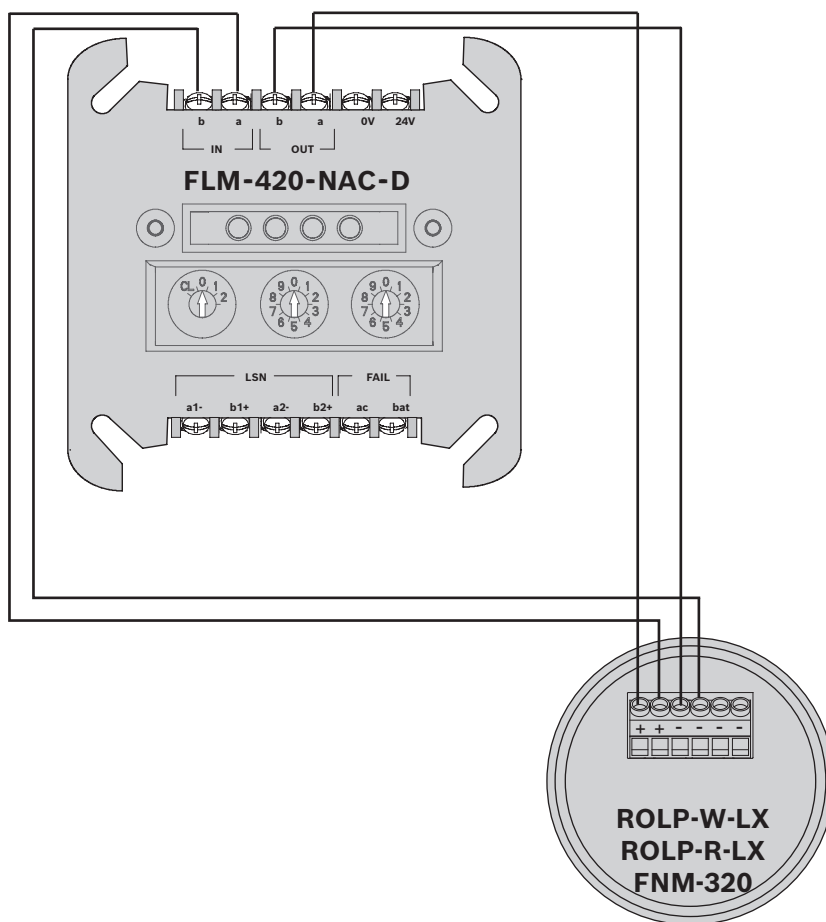
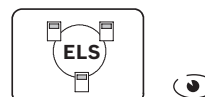




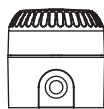
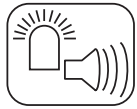


**SOL-LX  
FNS-320**

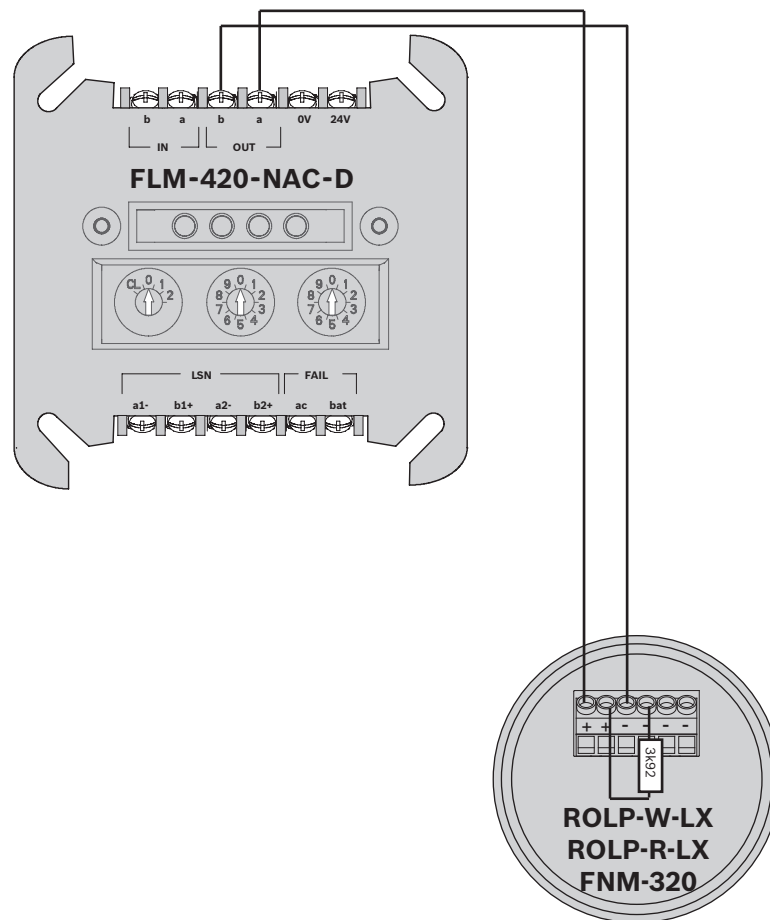
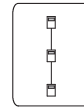




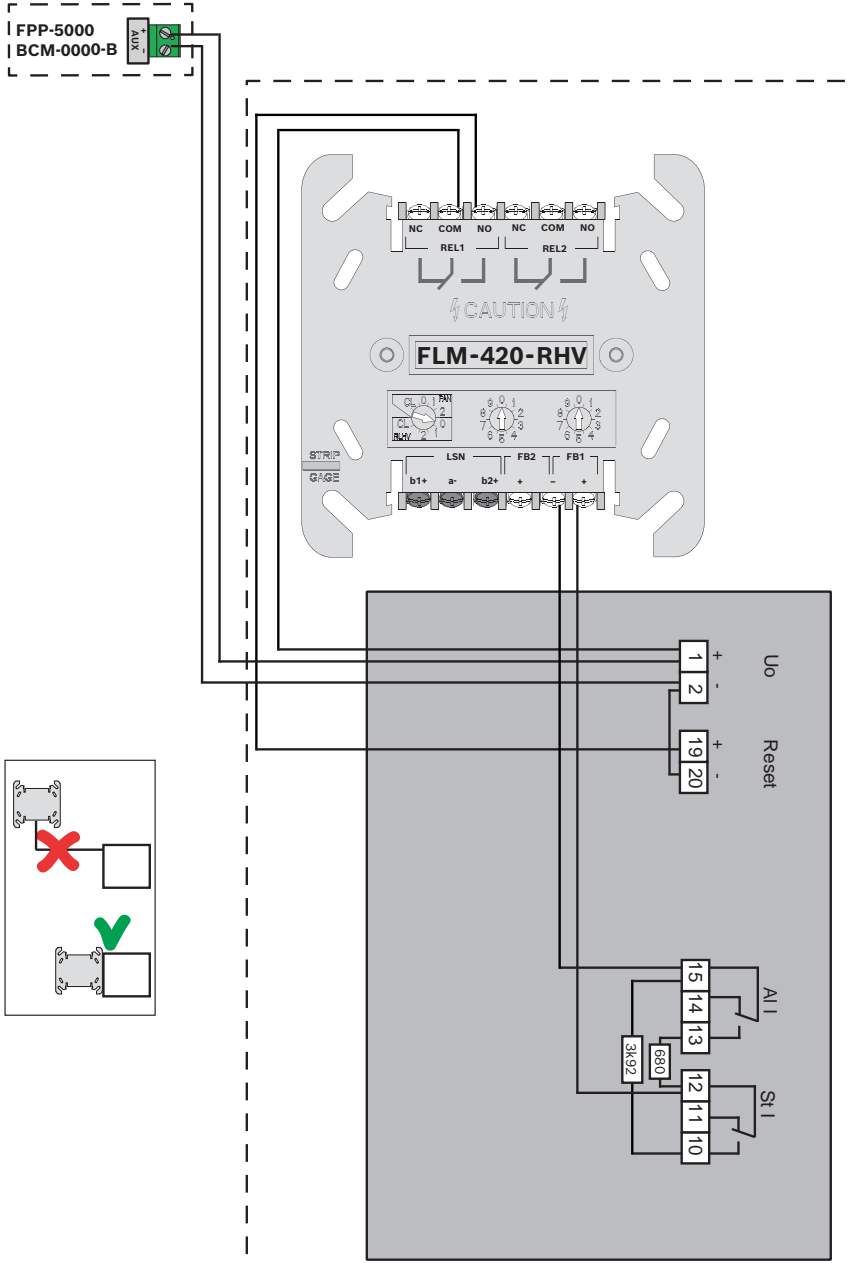
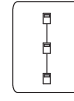




**ROLP-W-LX**  
**ROLP-R-LX**  
**FNM-320**

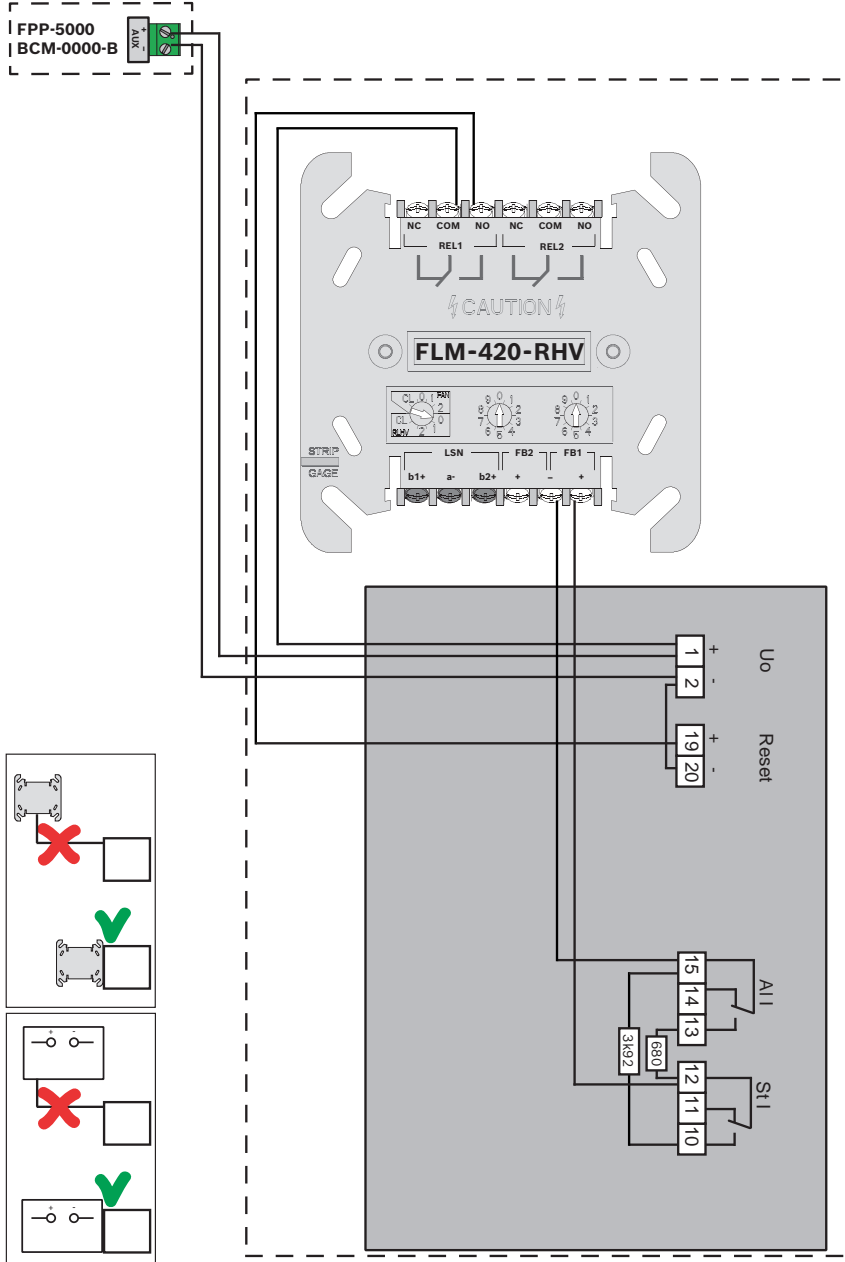


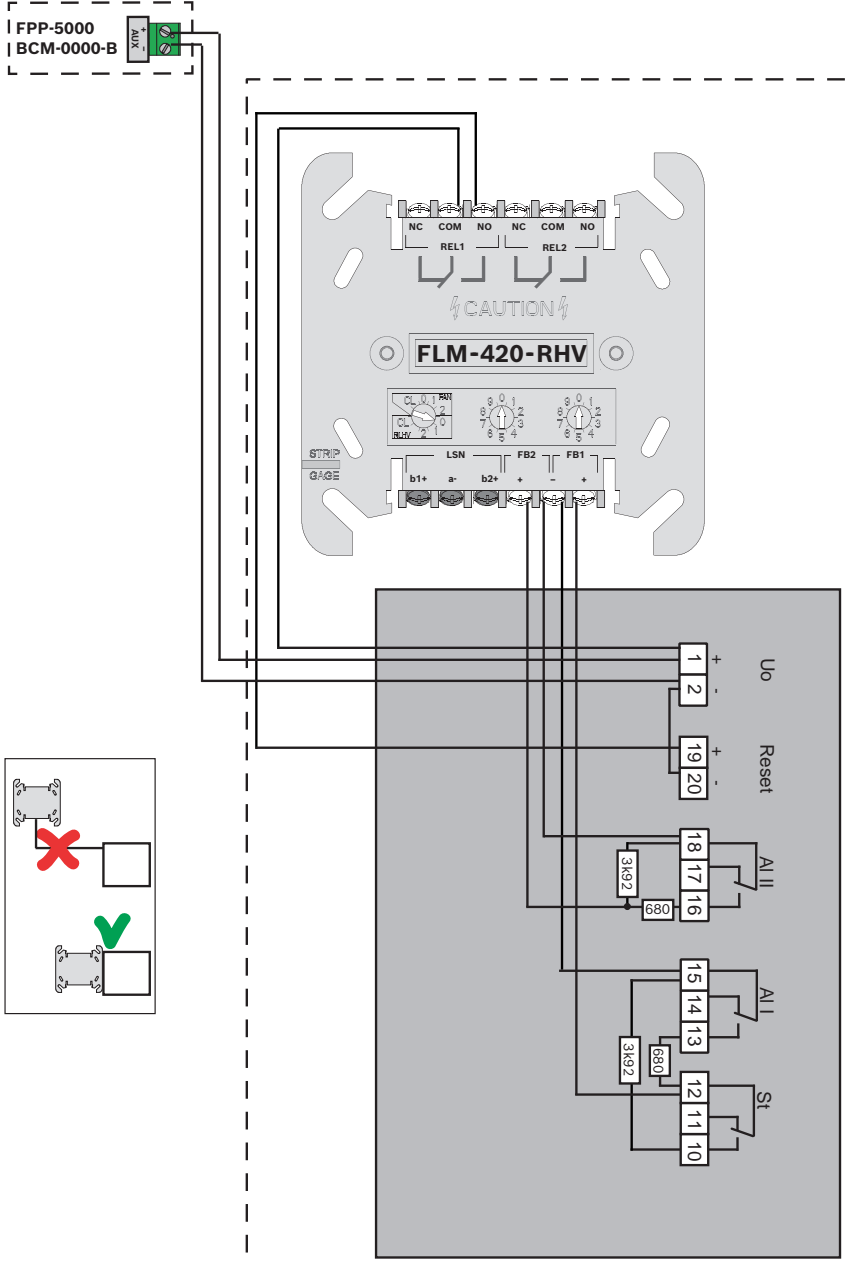
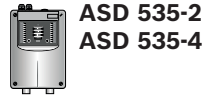
### 2.5.4 FLM-420-RHV





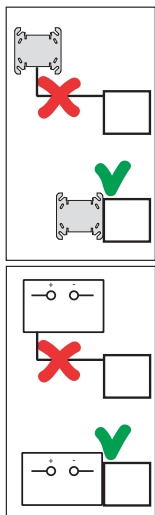
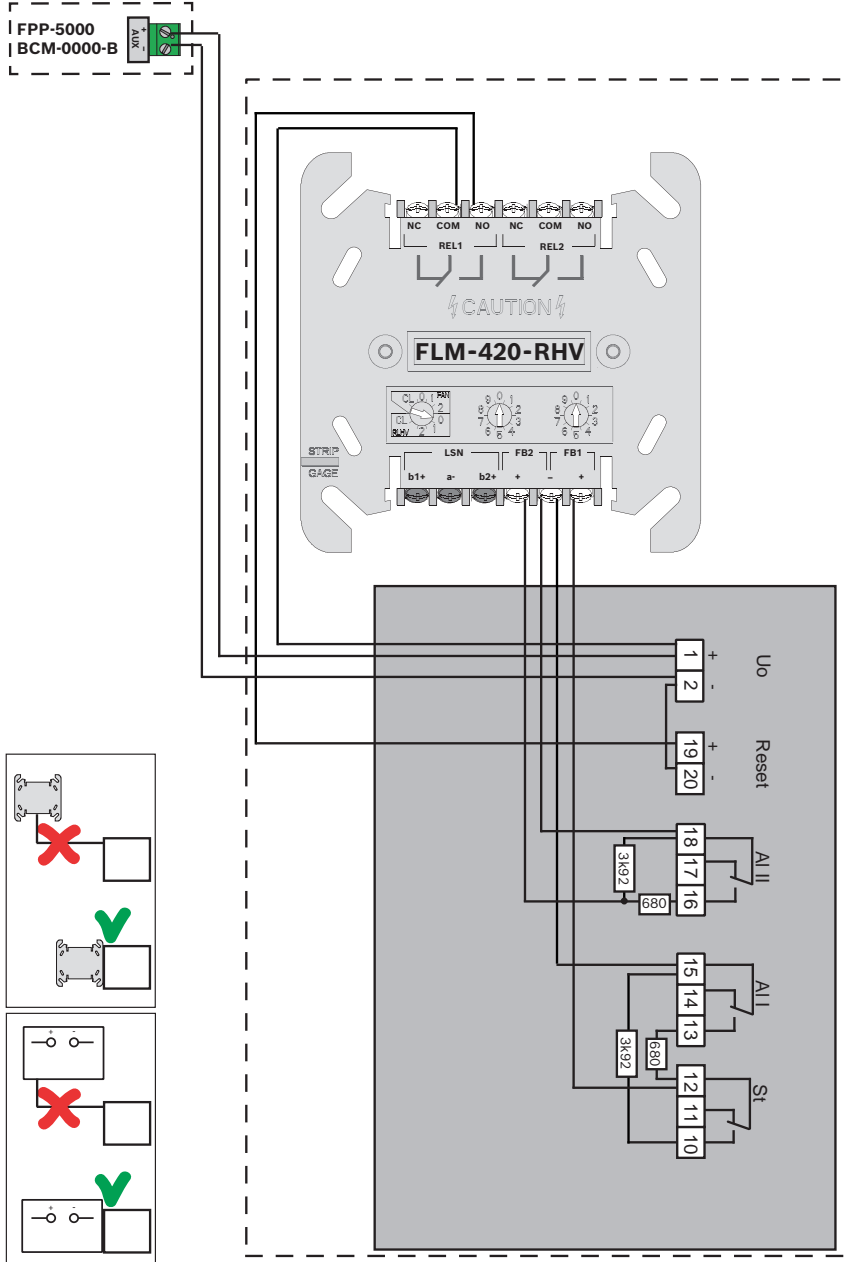
ELS

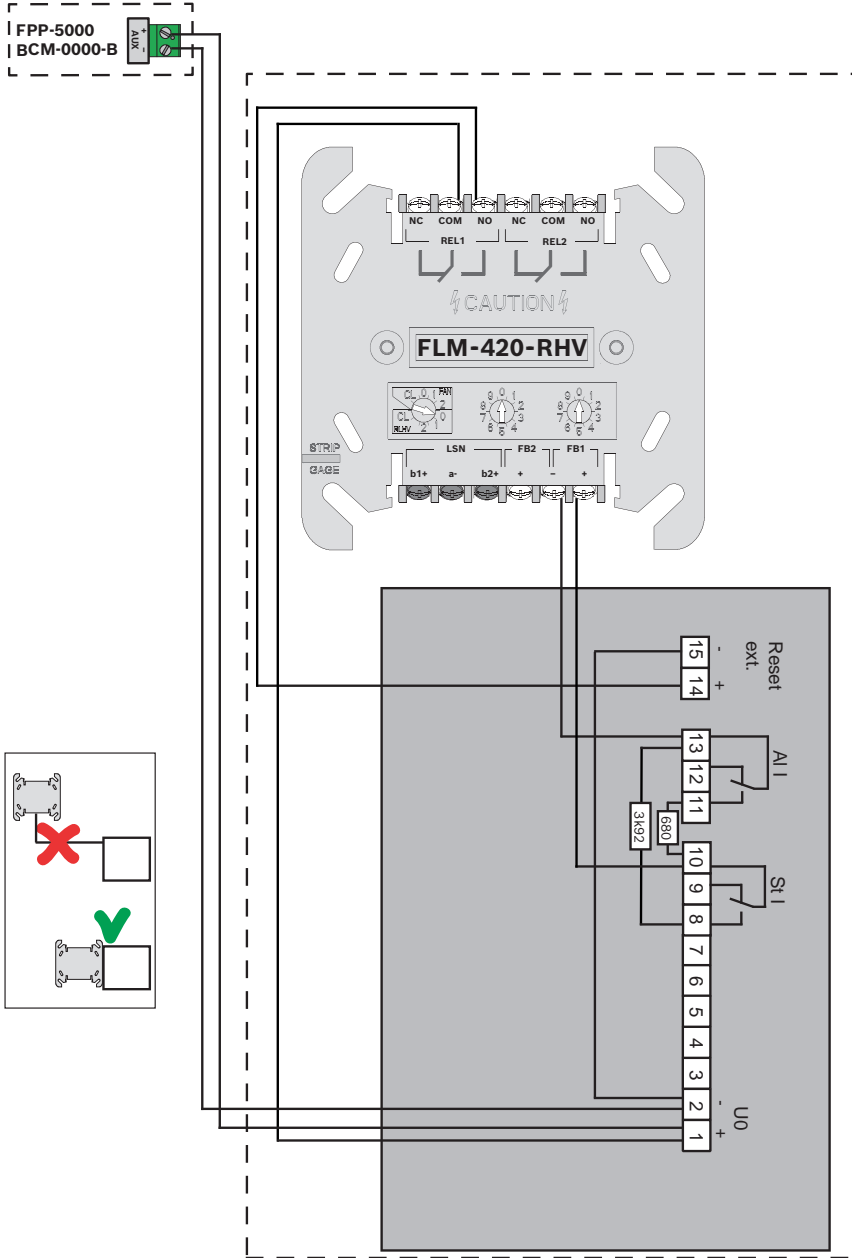






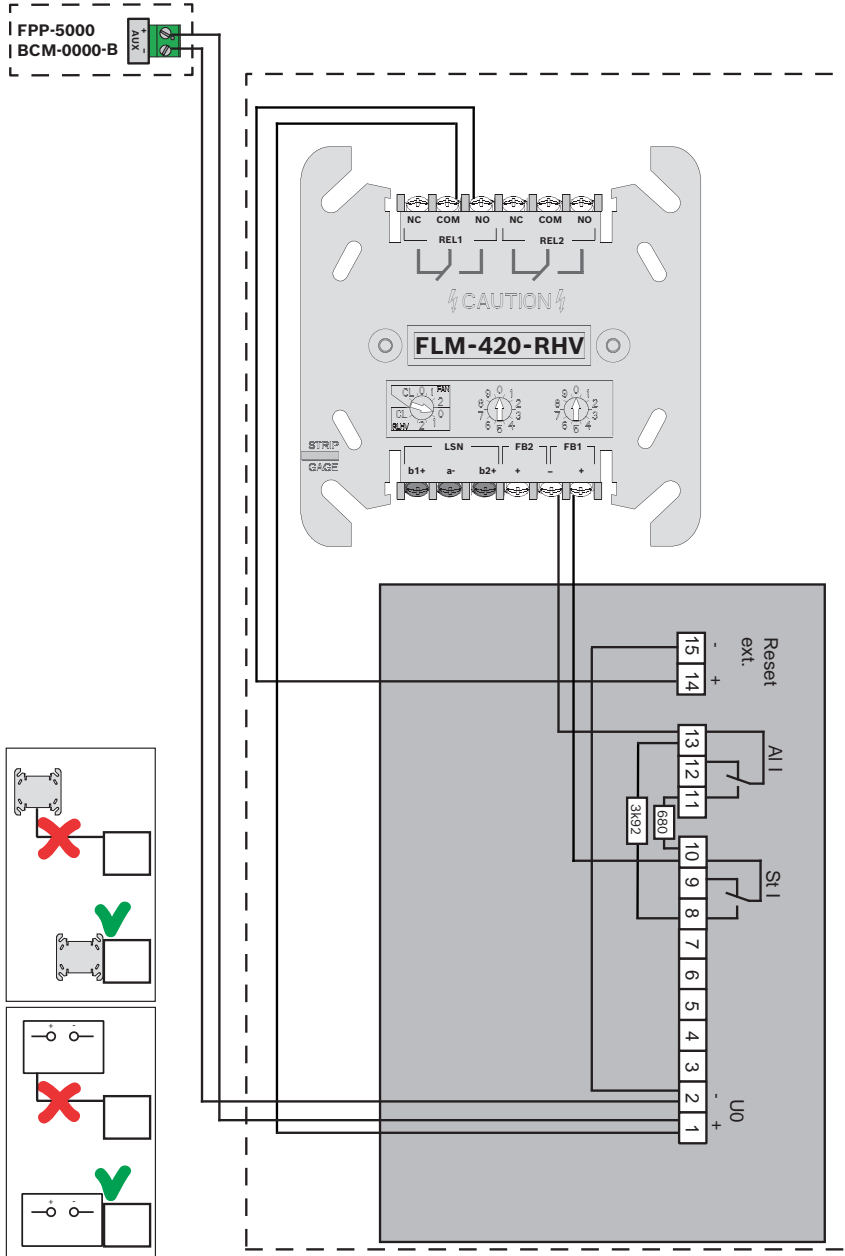
ELS





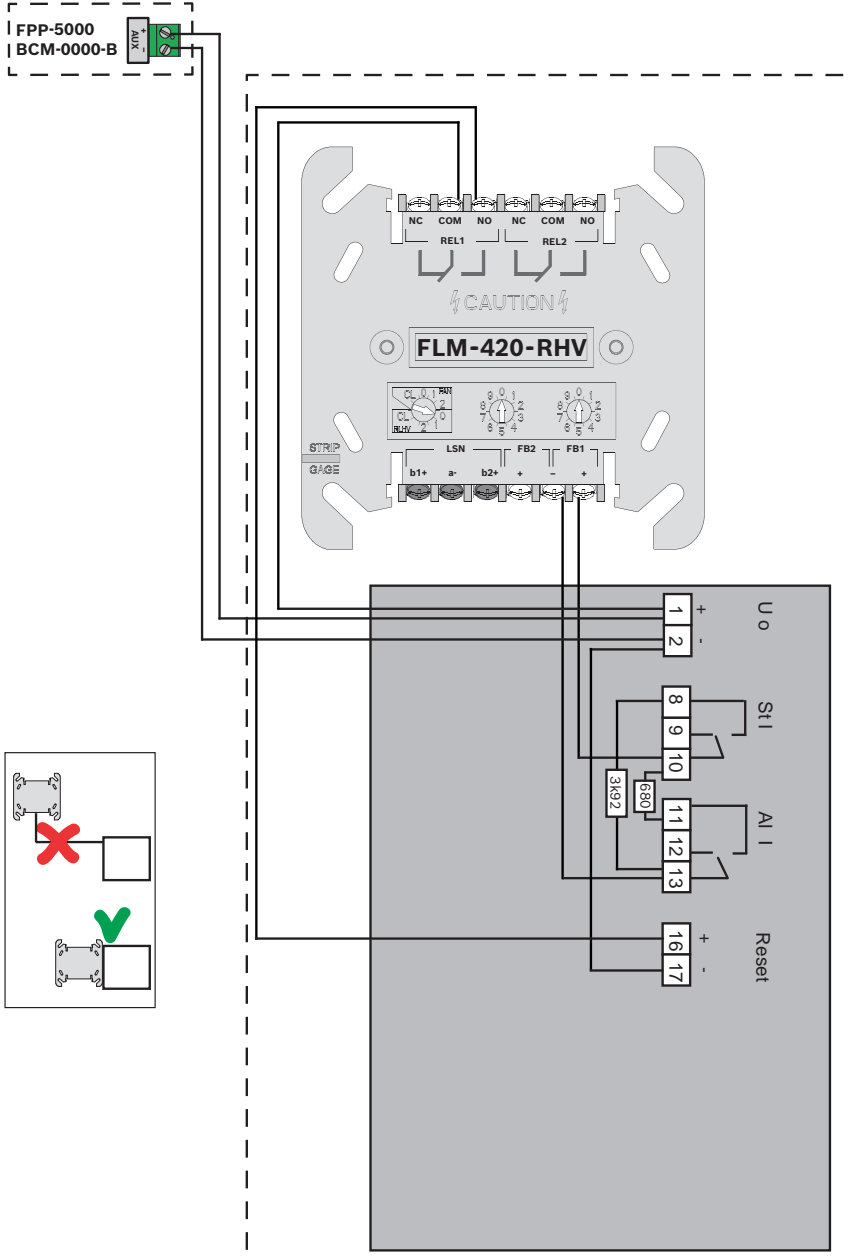


ELS





ADW 535-1



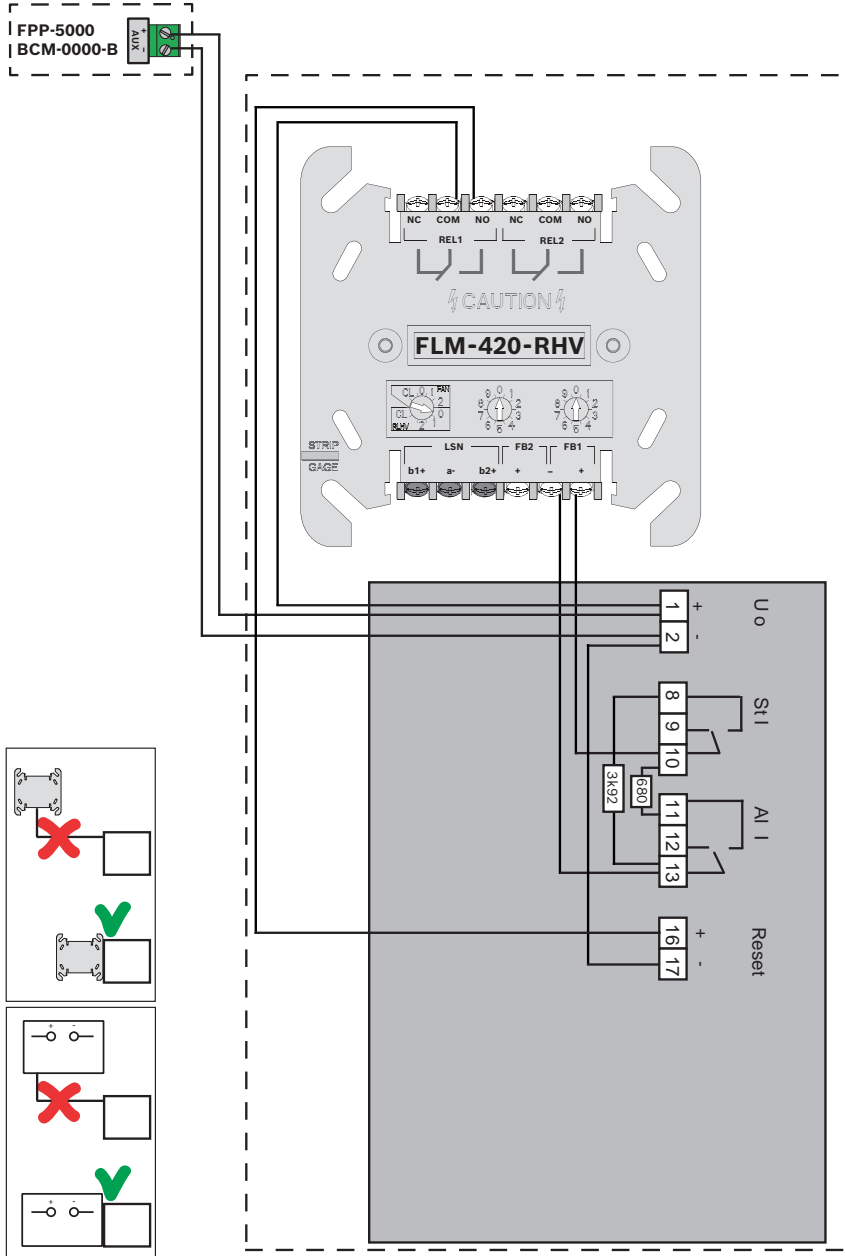




ADW 535-1

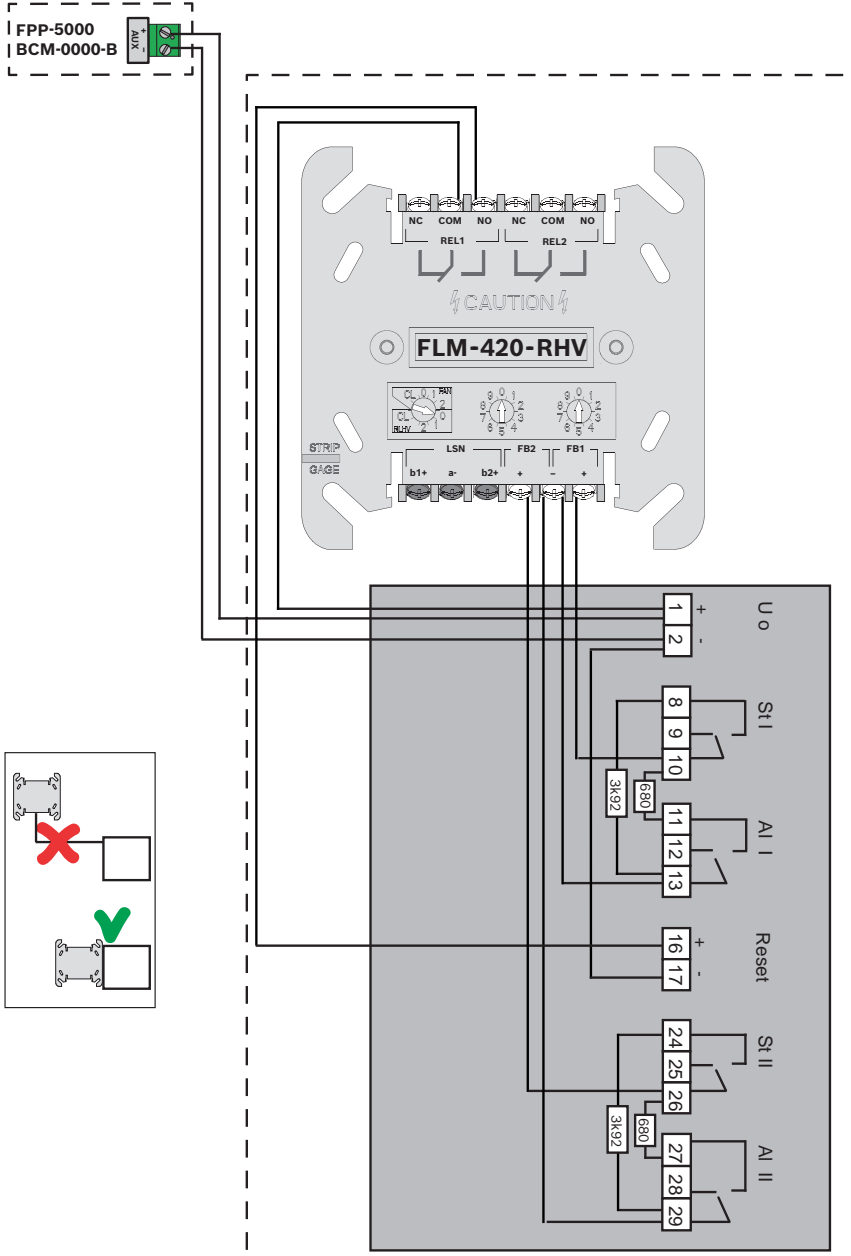


ELS





ADW 535-2

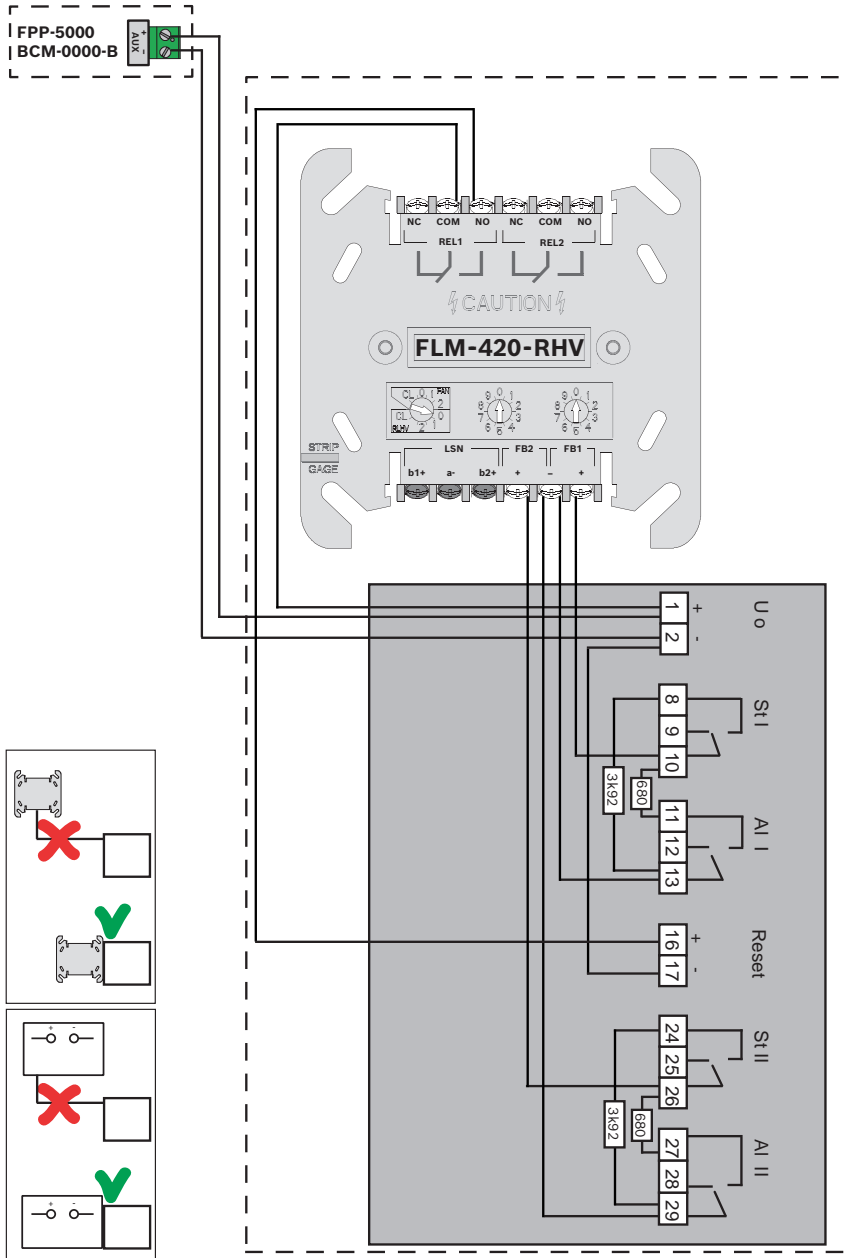




**ADW 535-2**

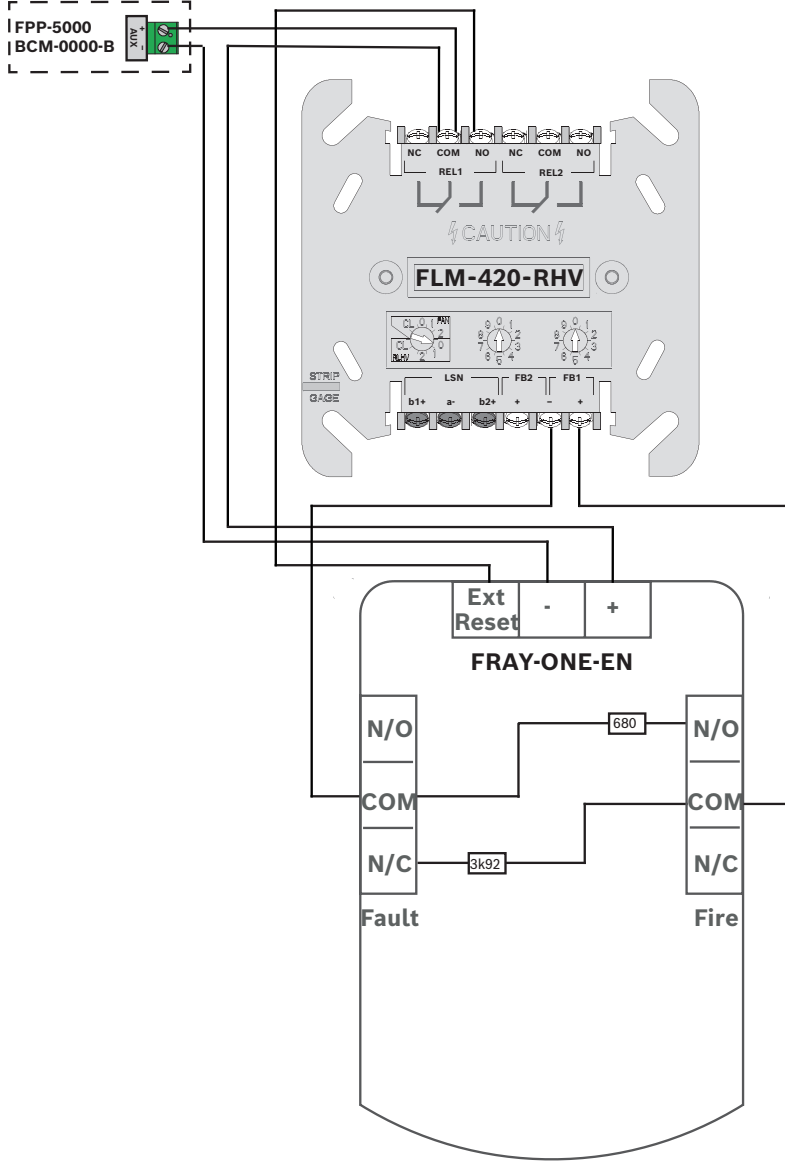


**ELS**





**Fireray One**



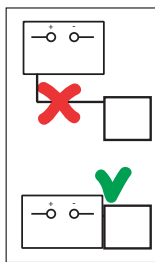
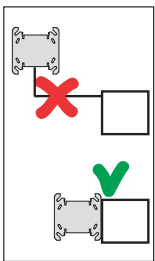
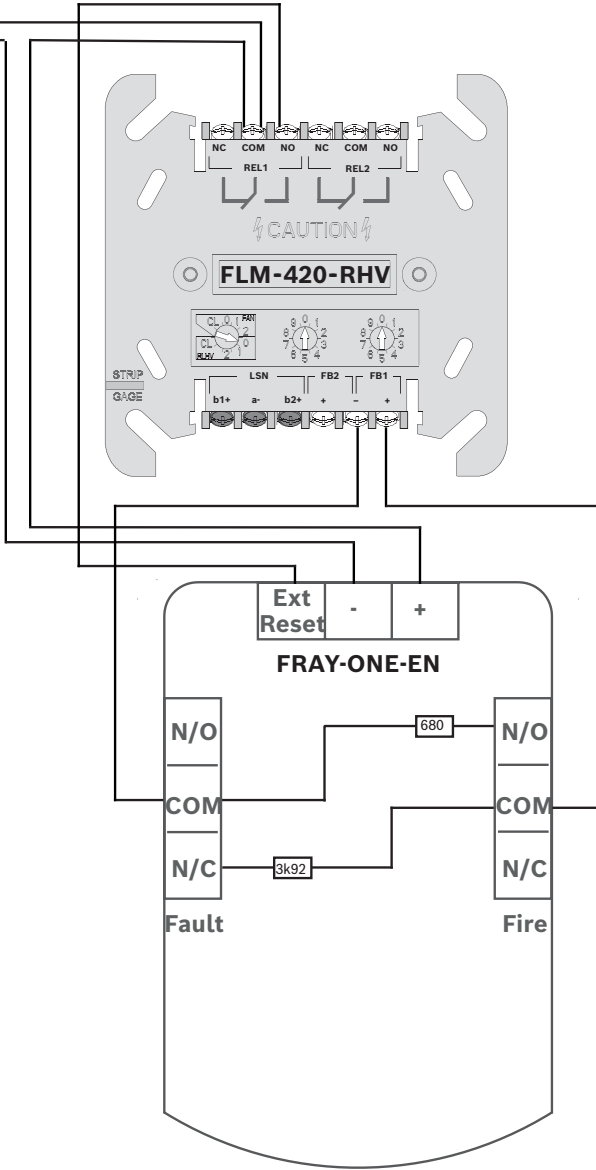


**Fireray One**



**ELS**

FPP-5000  
BCM-0000-B

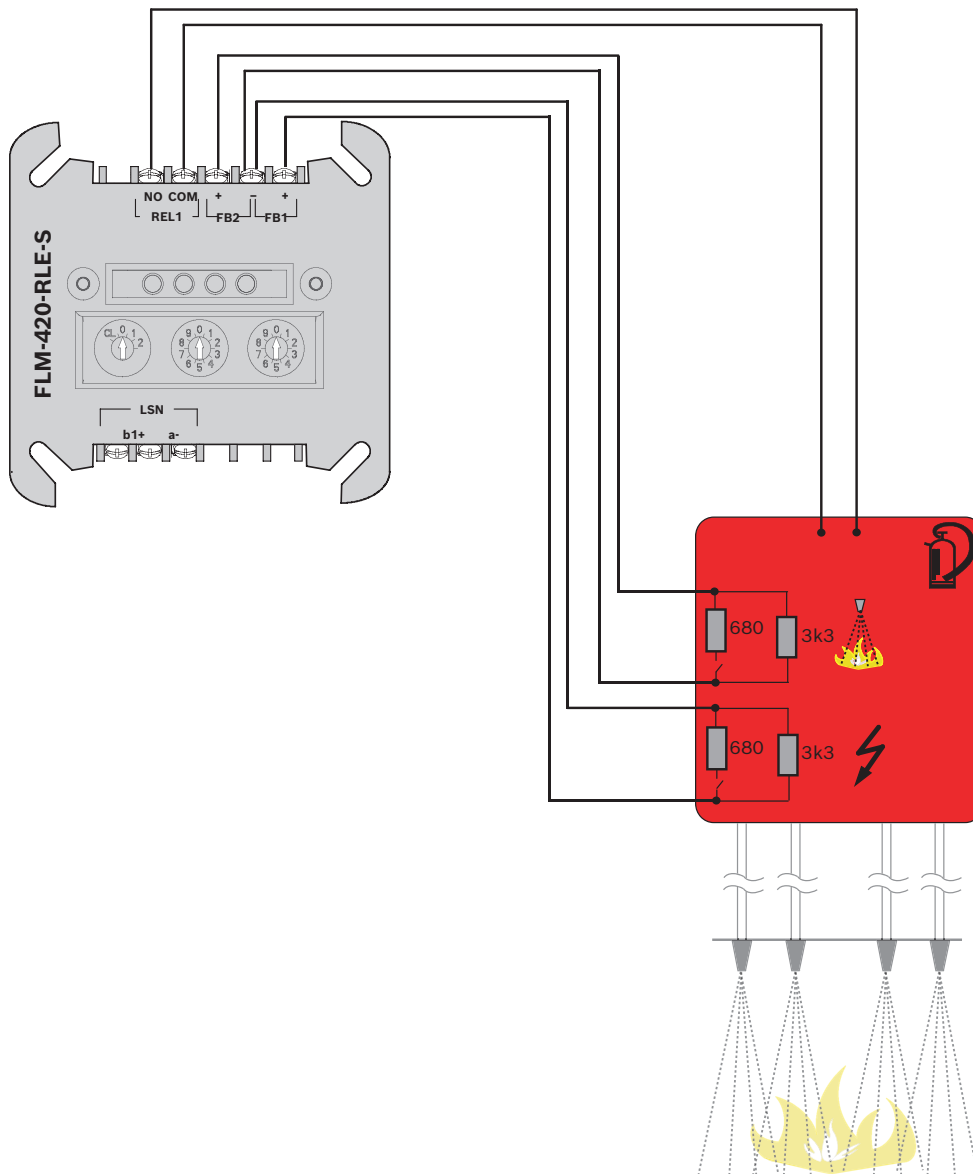


2.5.5

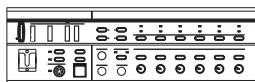
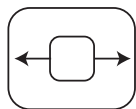
FLM-420-RLE-S



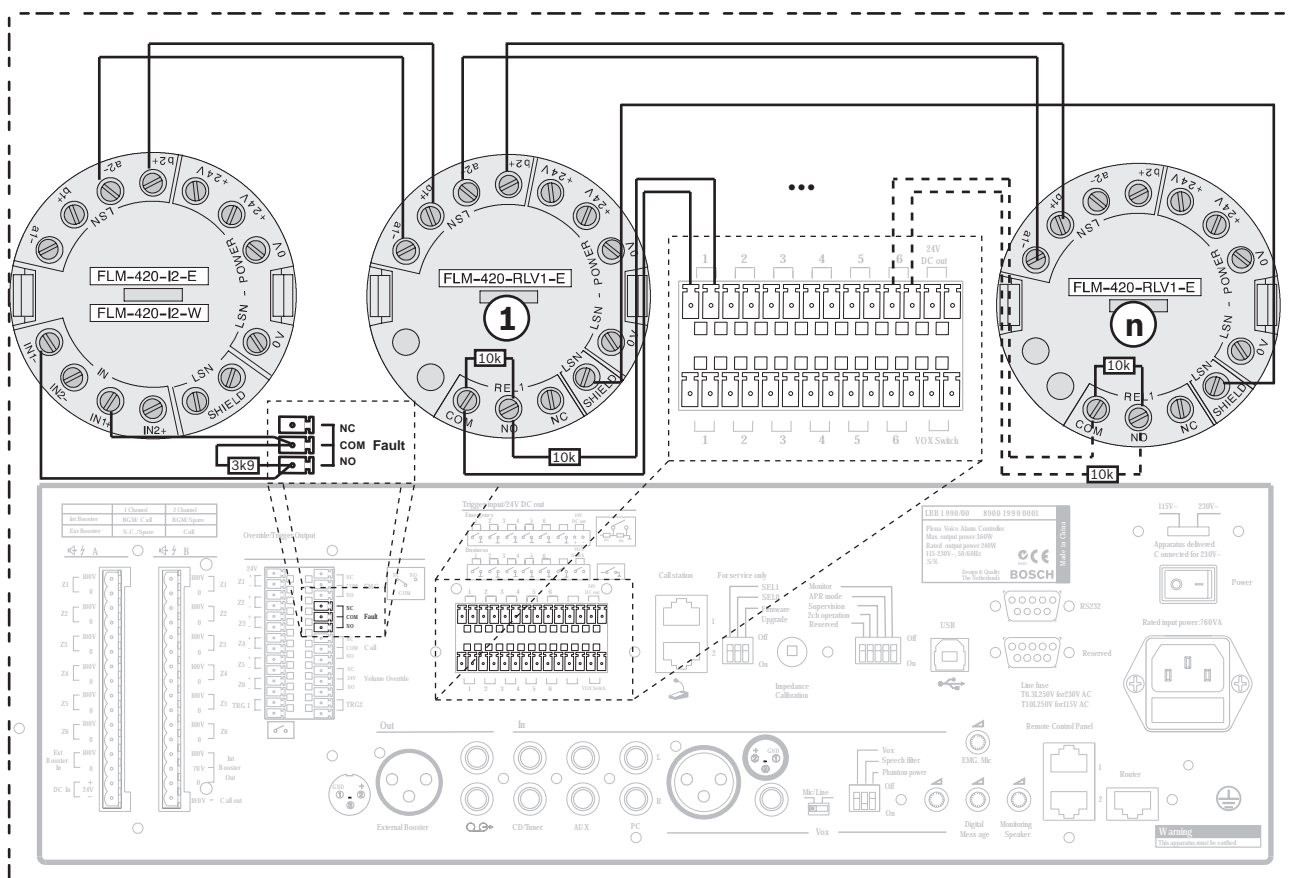
VdS 2496



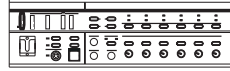
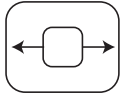
### 2.5.6 FLM-420-RLV1-E



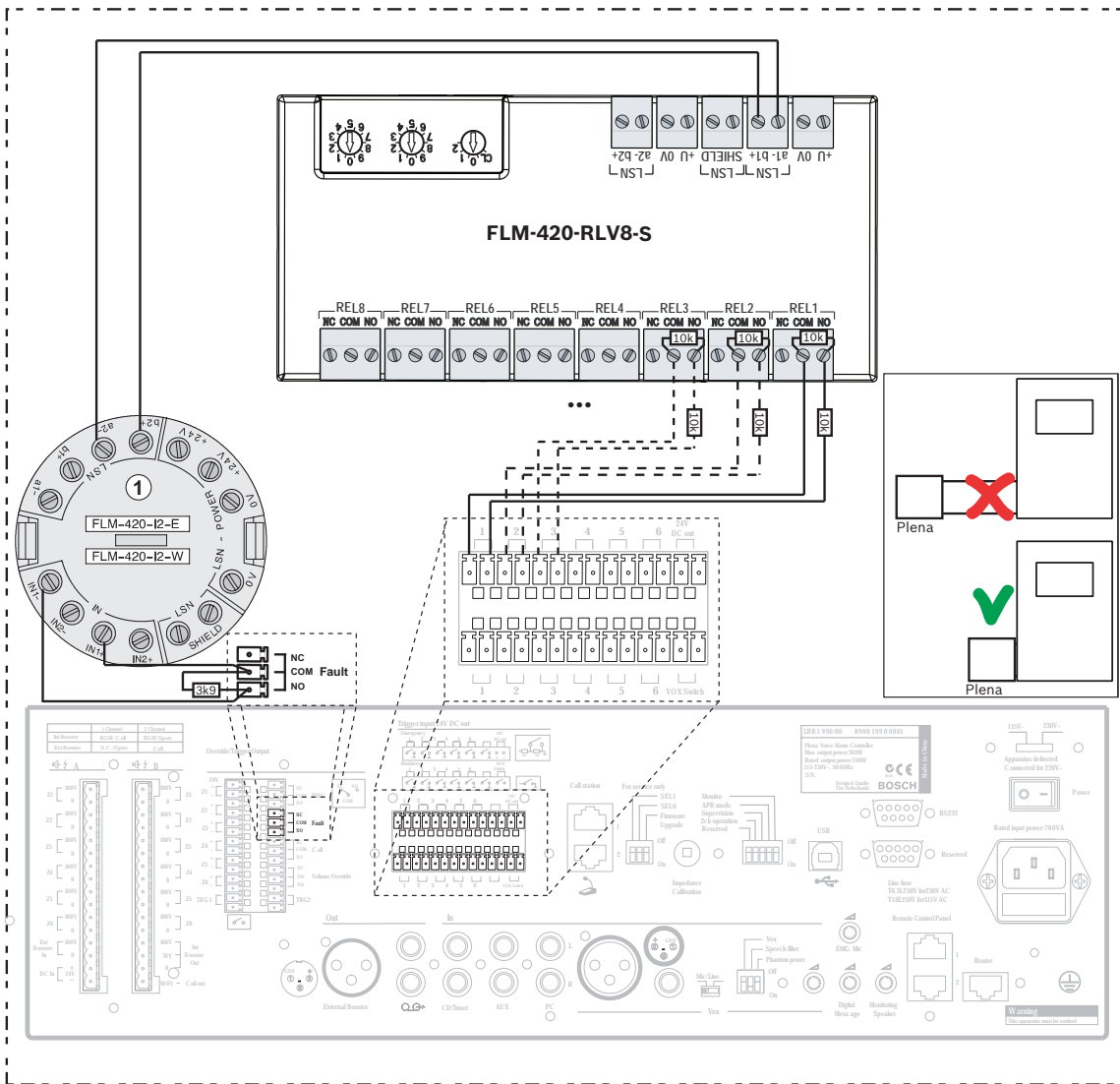
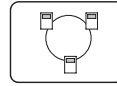
Plena



### 2.5.7 FLM-420-RLV8-S



Plena





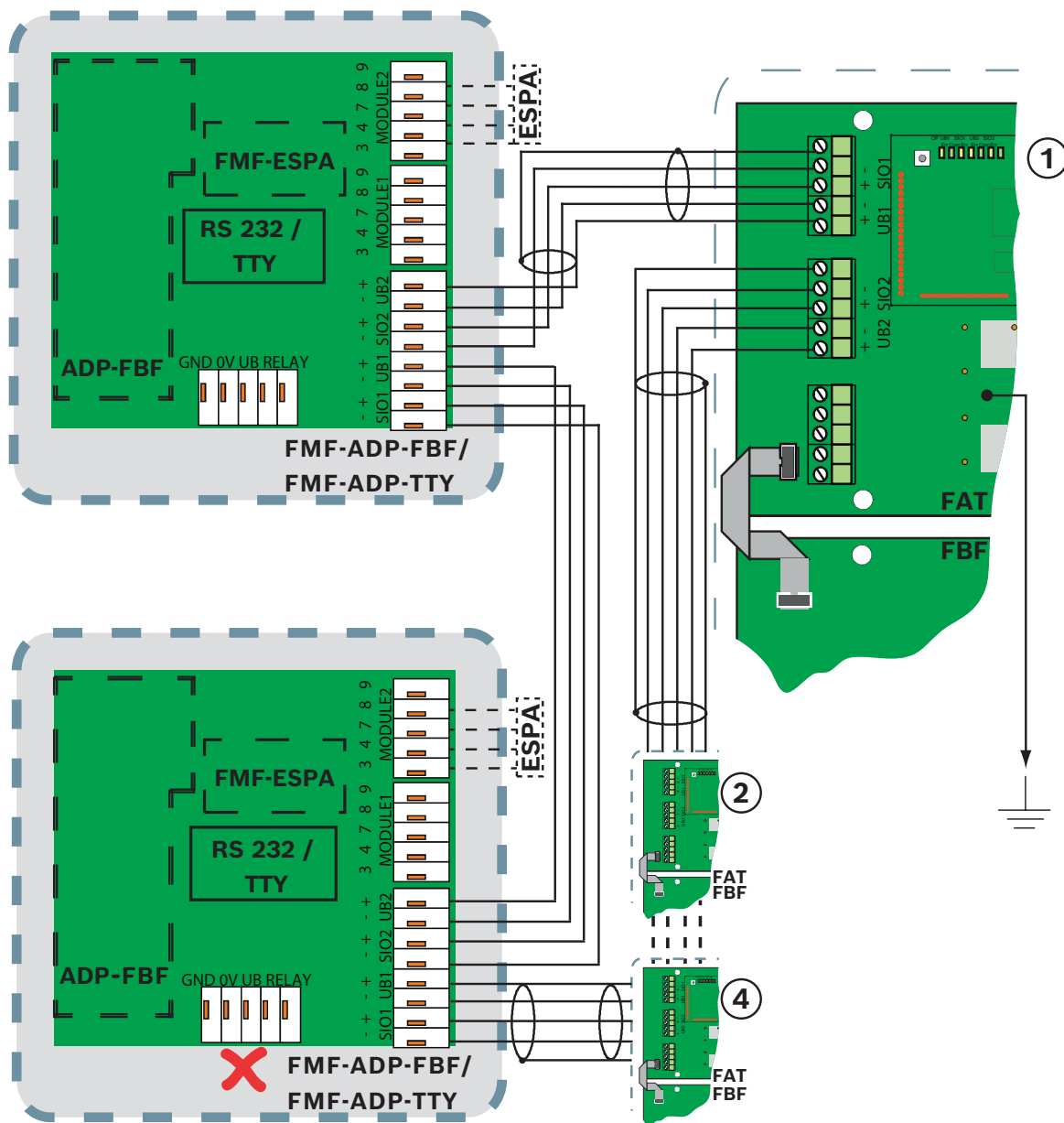
### 2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS



## 2.6

### EOL



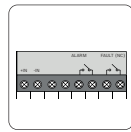
*CZM 0004 A, pagina 189*

*LSN 0300 A, pagina 201*

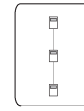
*FLM-420/4-CON-S/D, pagina 246*

2.6.1

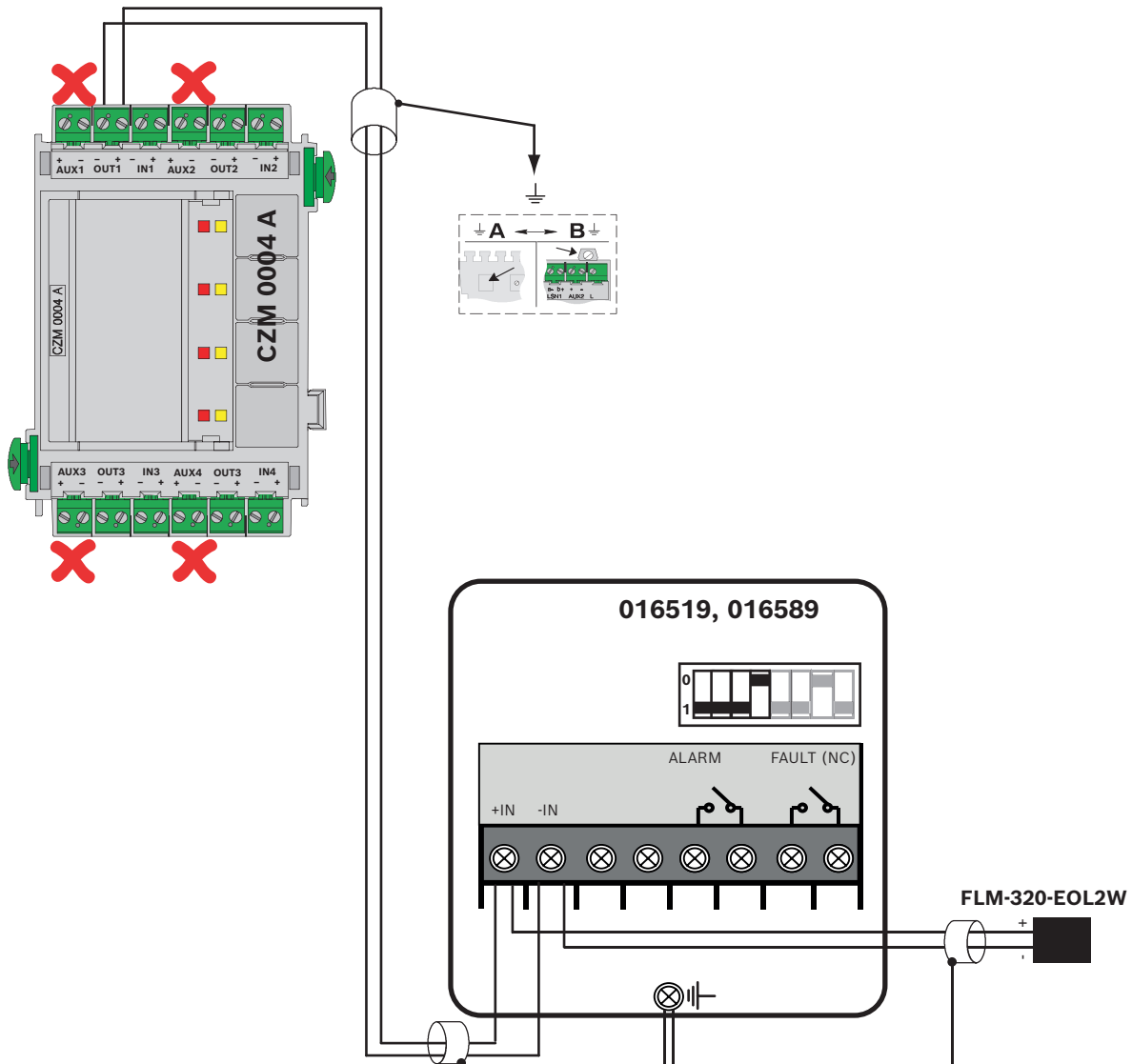
CZM 0004 A

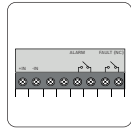


016519, 016589  
IR3 Flame Detector

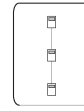


ELS

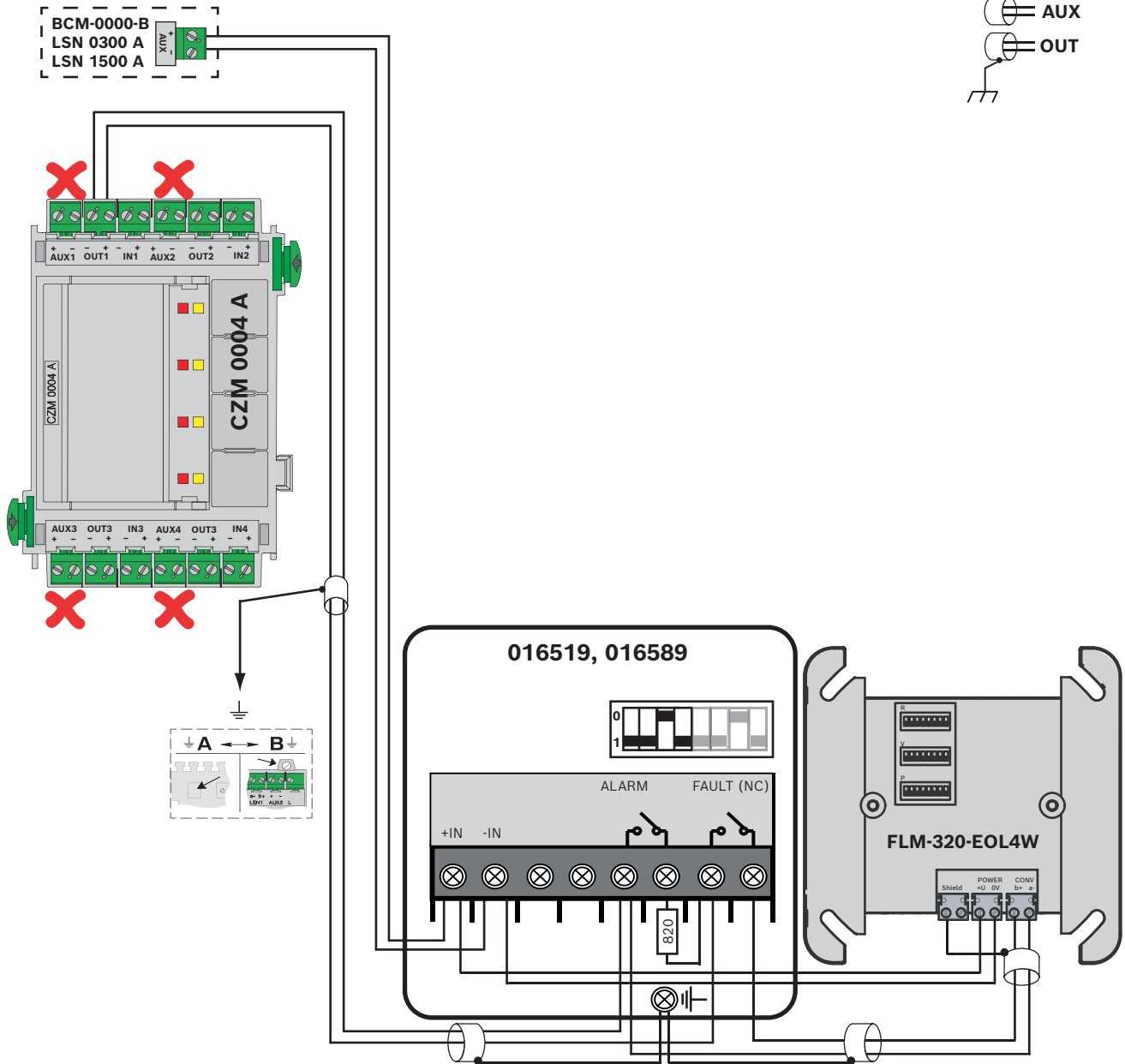




016519, 016589  
IR3 Flame Detector



ELS

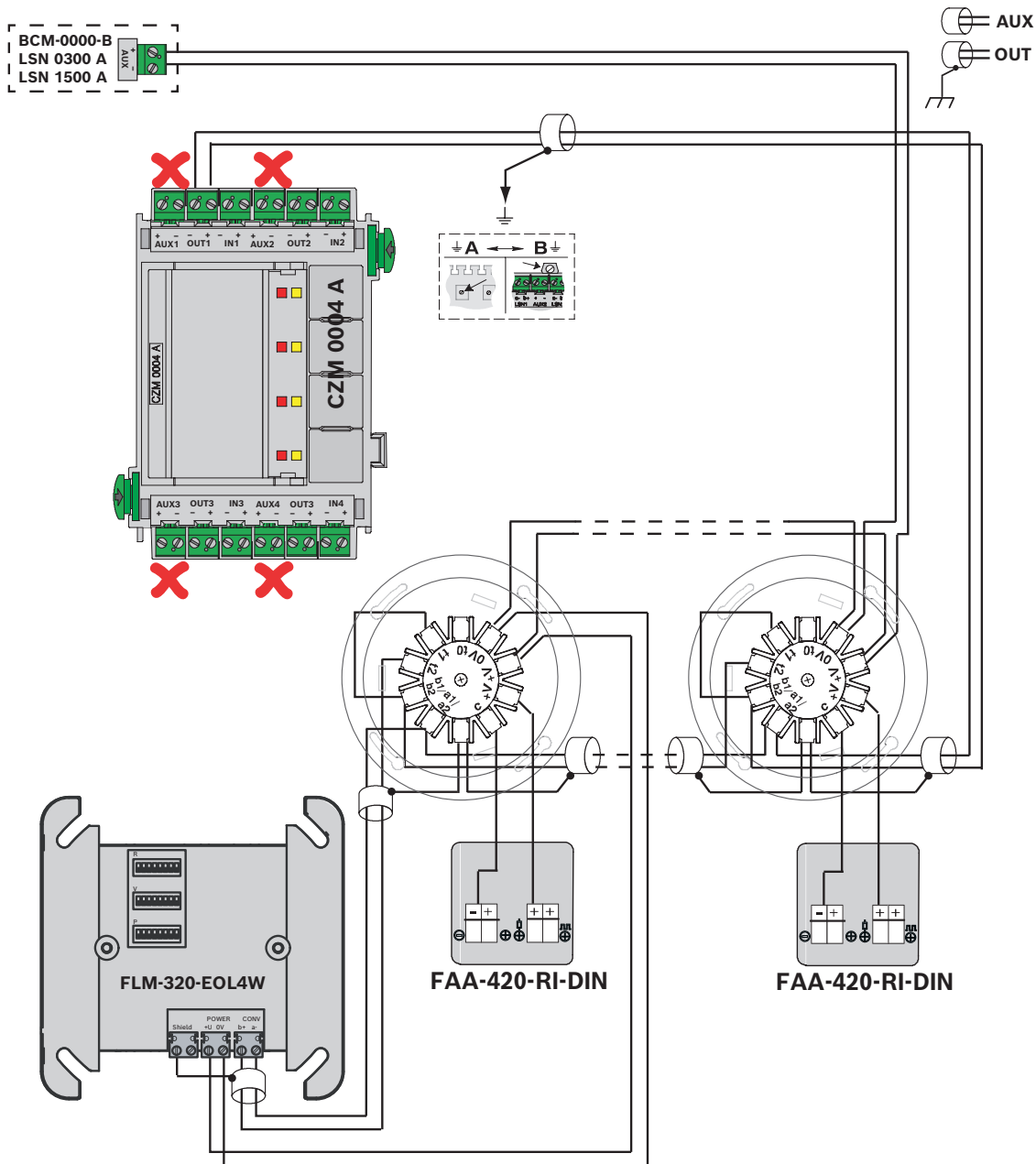


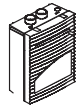


FCA-500-EU  
FCP-O 500  
FCP-O 500-P  
FCP-OC 500  
FCP-OC 500-P

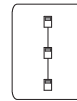


ELS



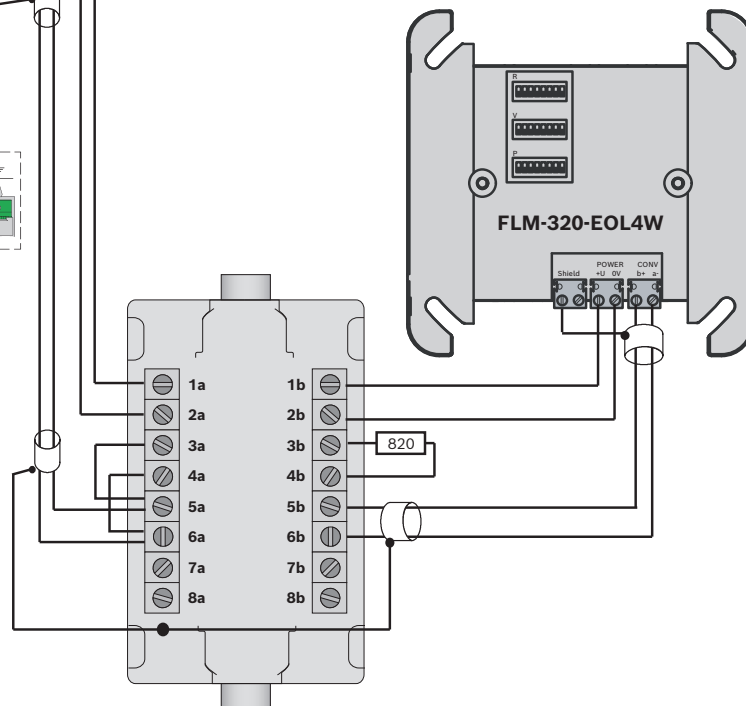
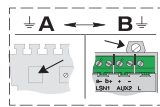
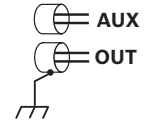
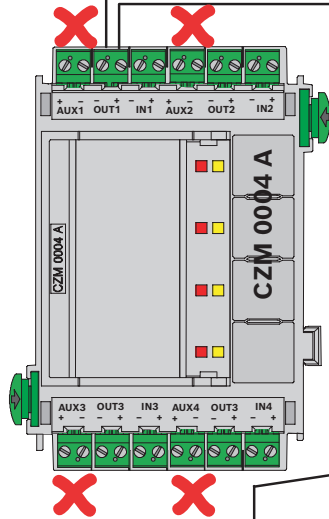


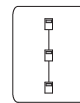
FCS-320-TM Series



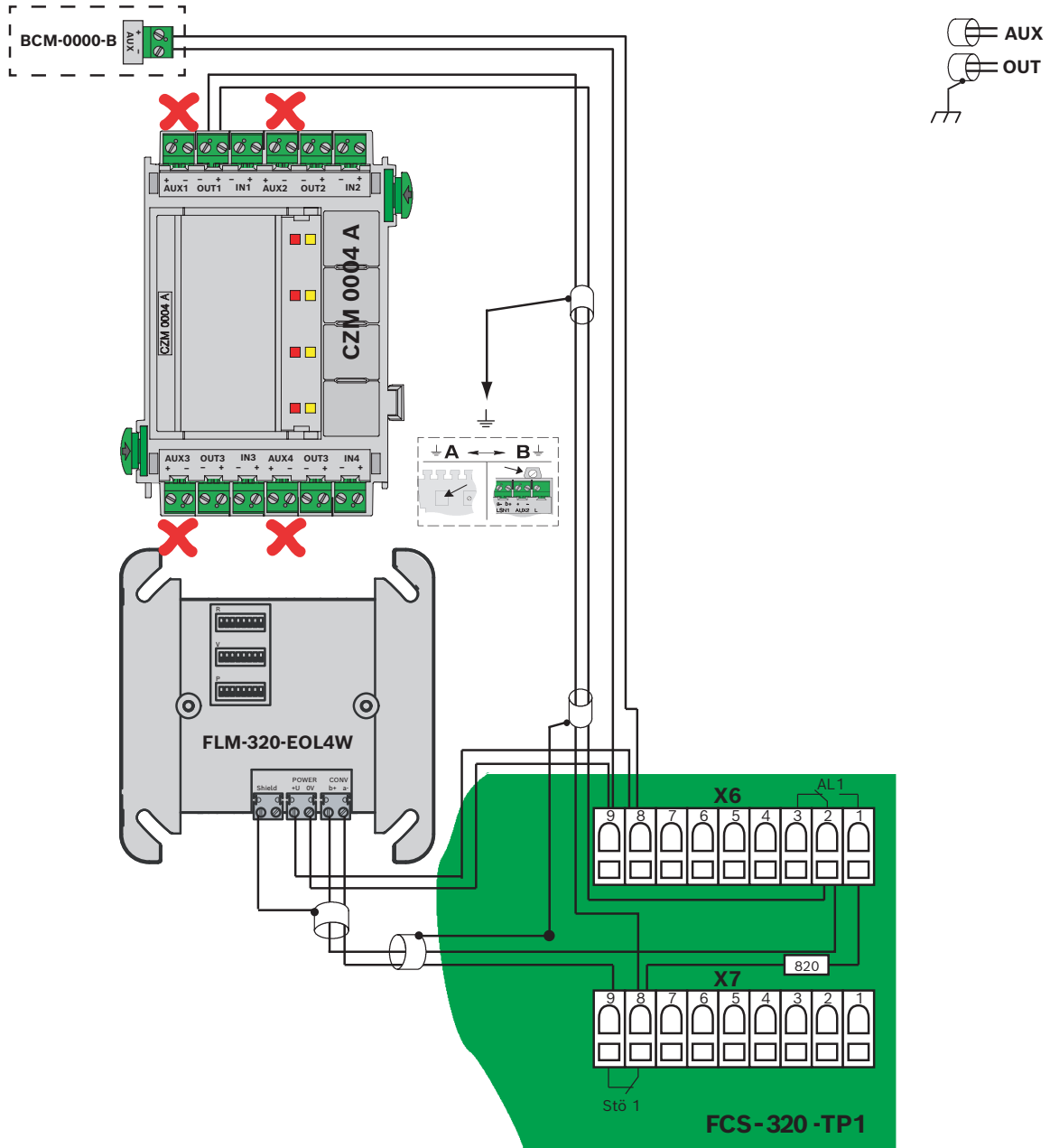
ELS

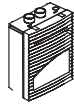
BCM-0000-B  
LSN 0300 A  
LSN 1500 A





ELS

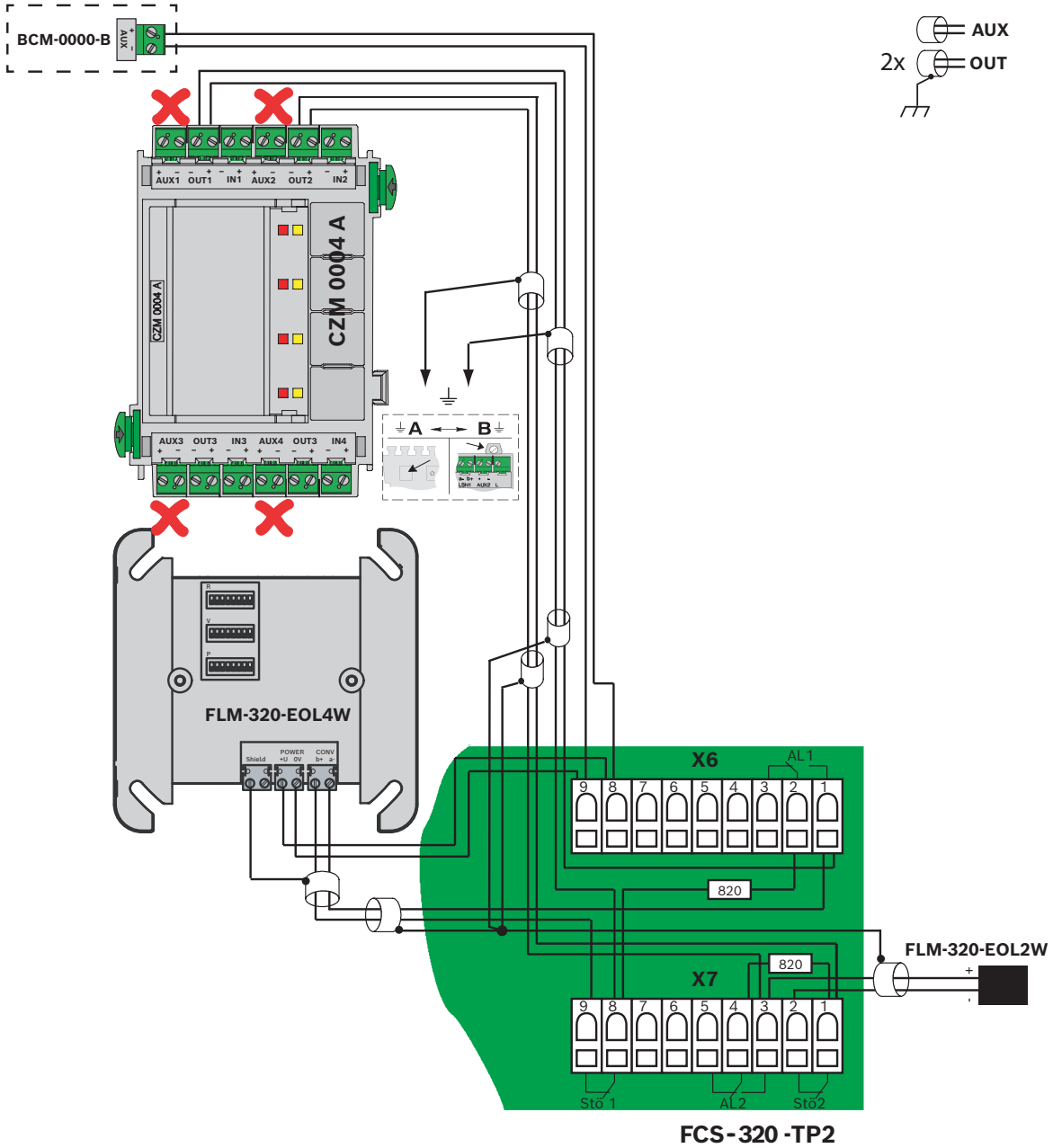




FCS-320-TP2



ELS







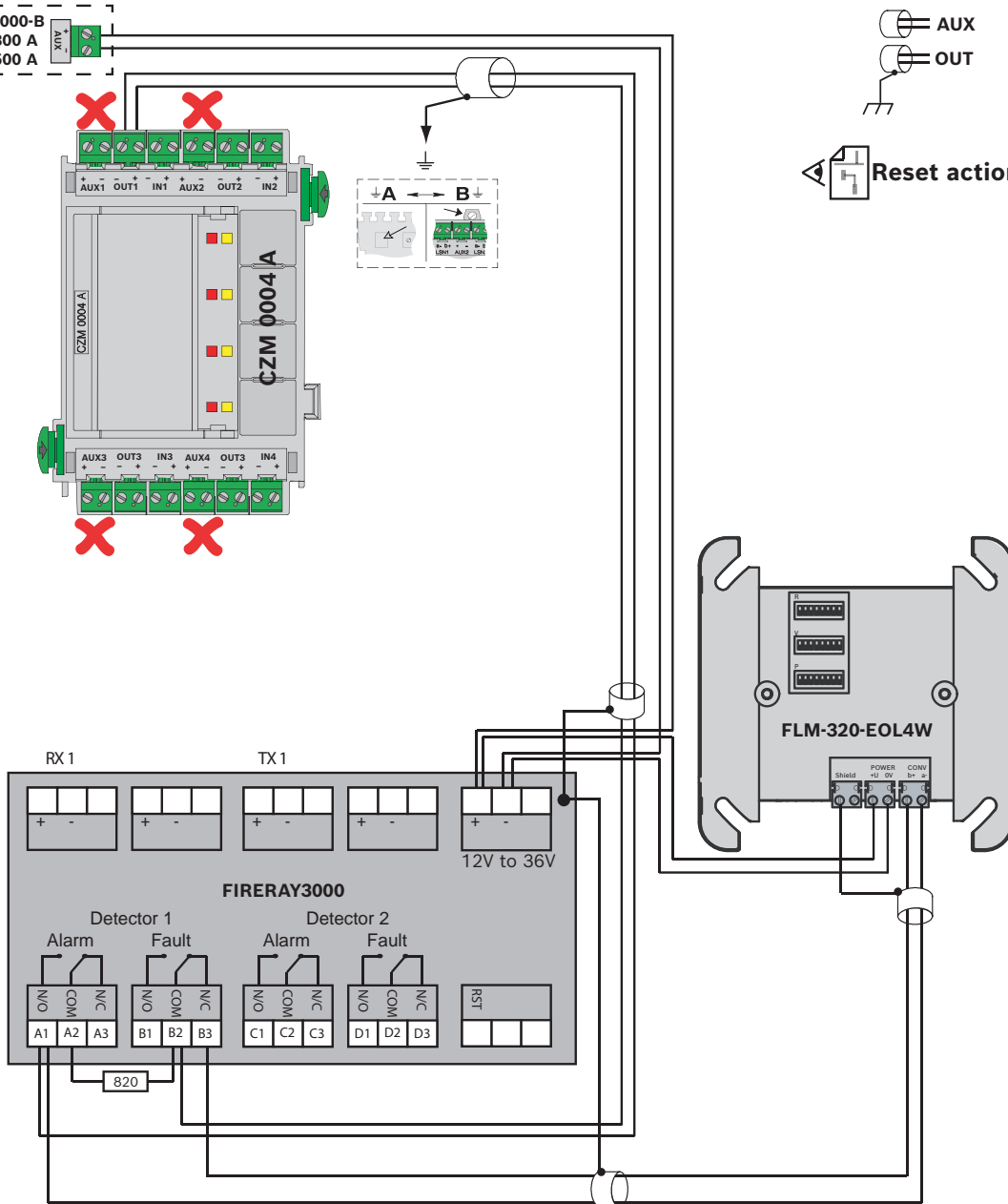
**FIRERAY3000**

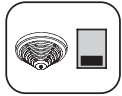
1 x



**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



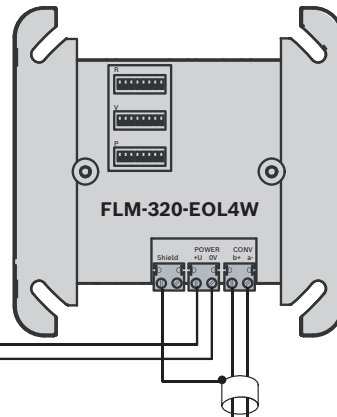
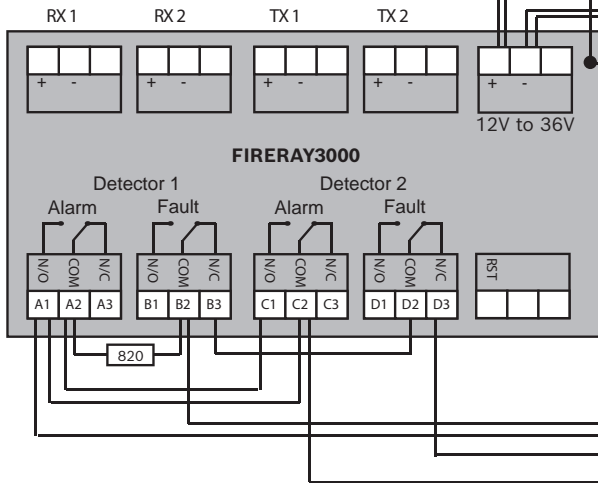
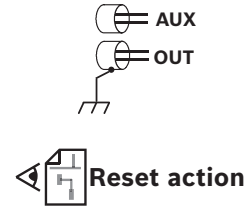
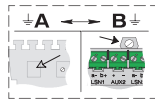
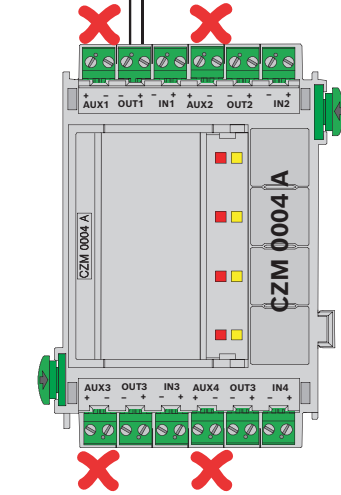


**FIRERAY3000**  
2 x  **OUT1**



**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



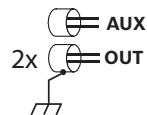
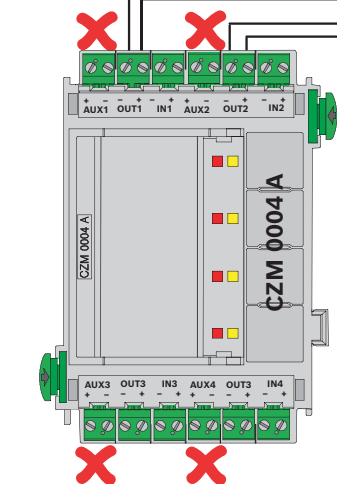


**FIRERAY3000**  
2 x **OUT1+2**

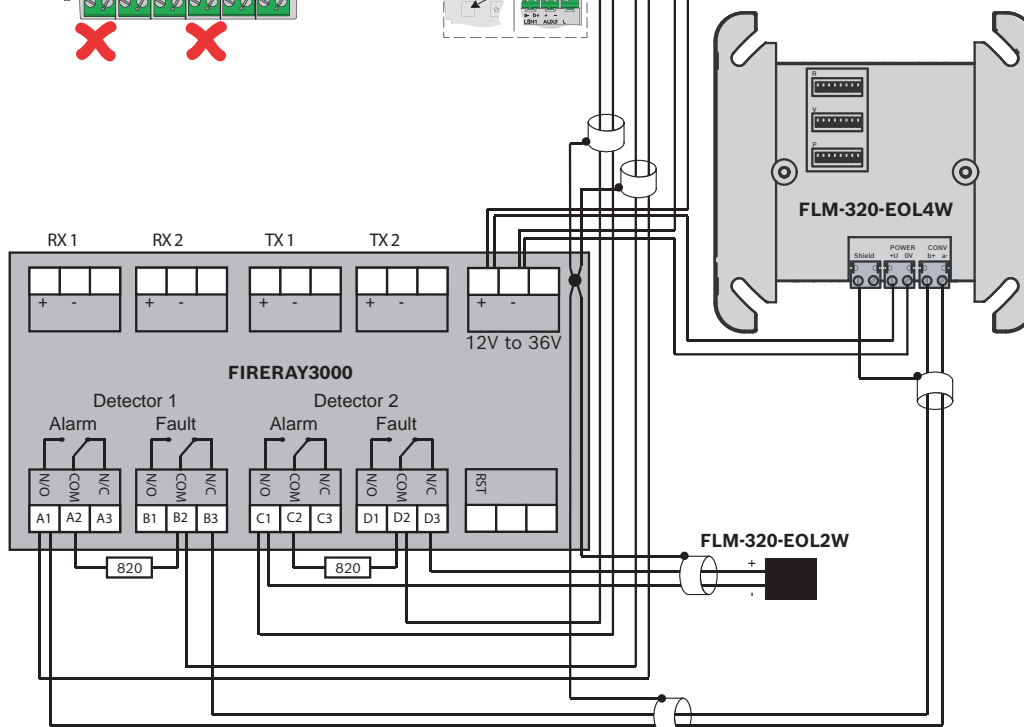


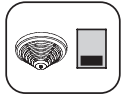
**ELS**

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



**Reset action**



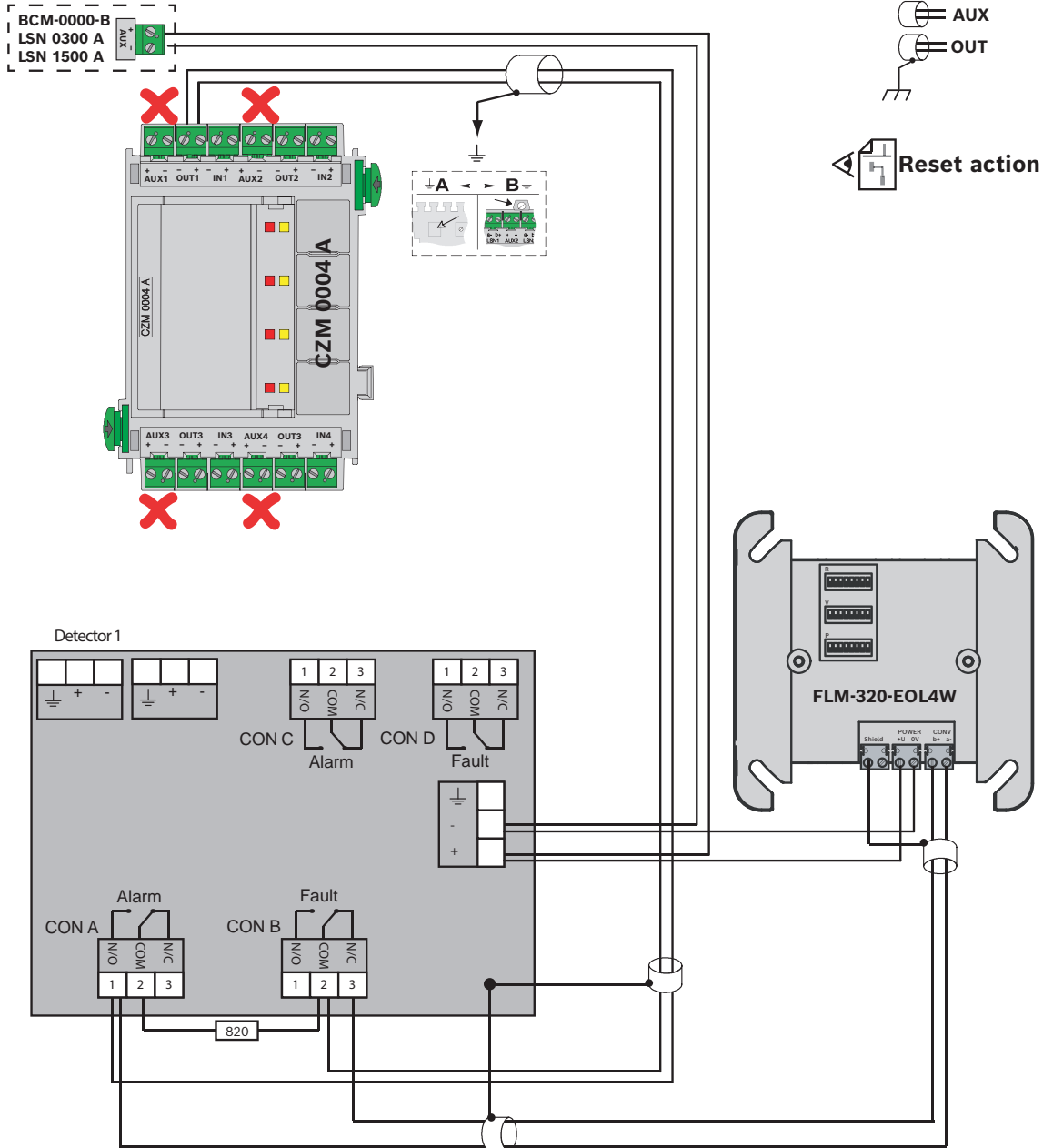


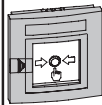
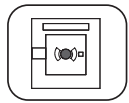
**FIRERAY5000**

1 x

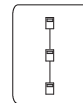


**ELS**

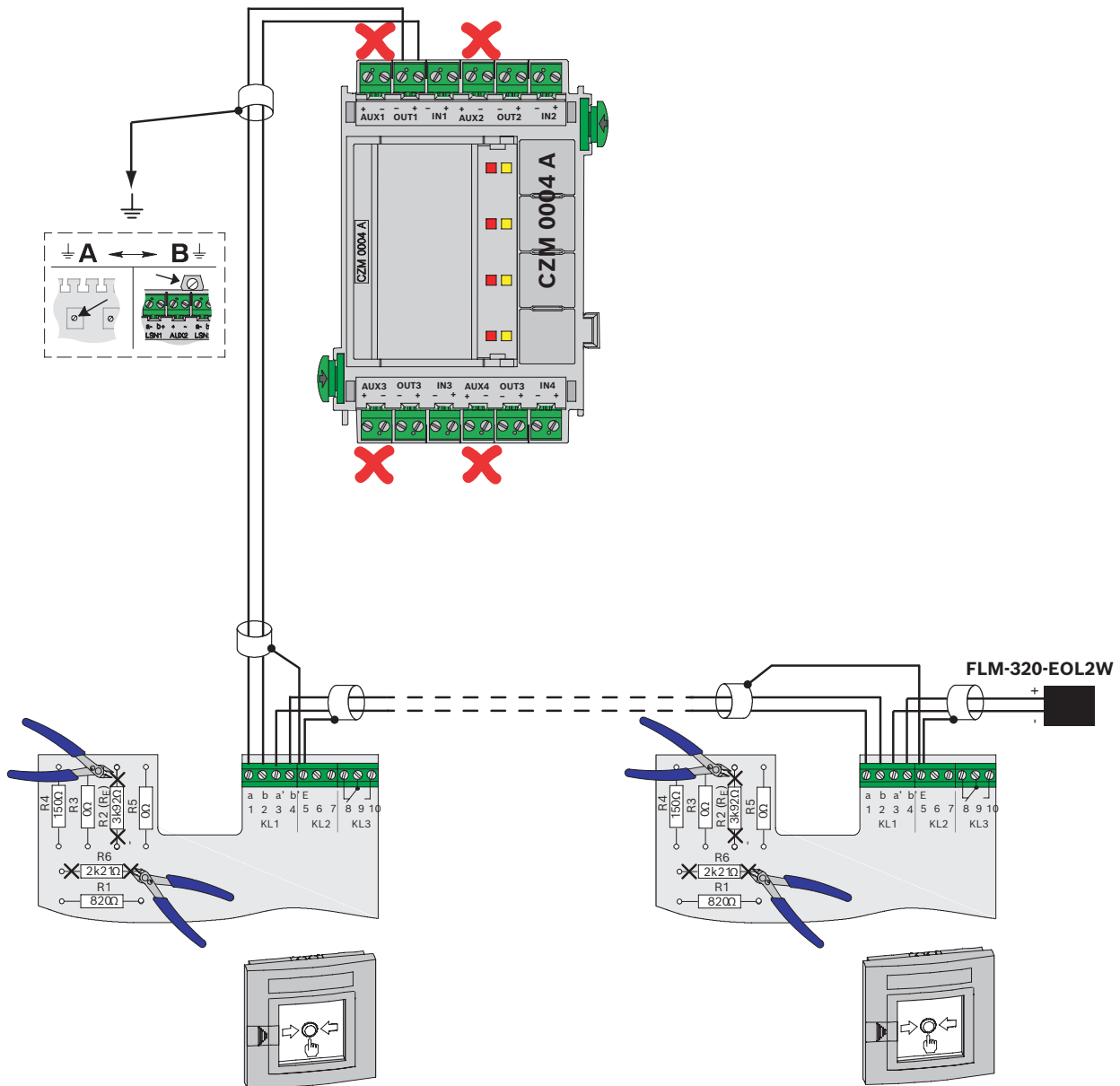




FMC-120-DKM-G-R  
 FMC-120-DKM-H-R  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B  
 FMC-120-DKM-G-Y



ELS

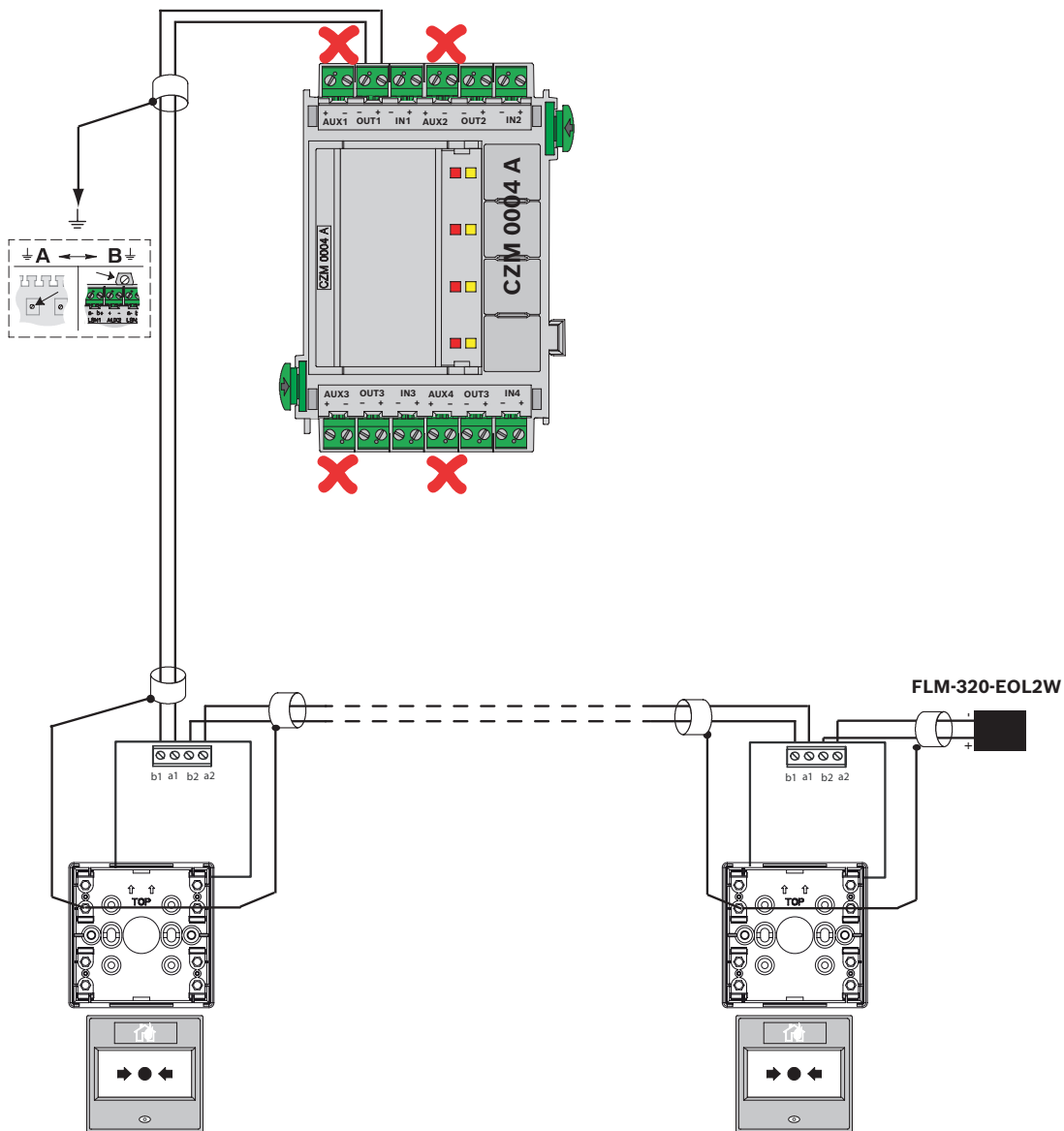




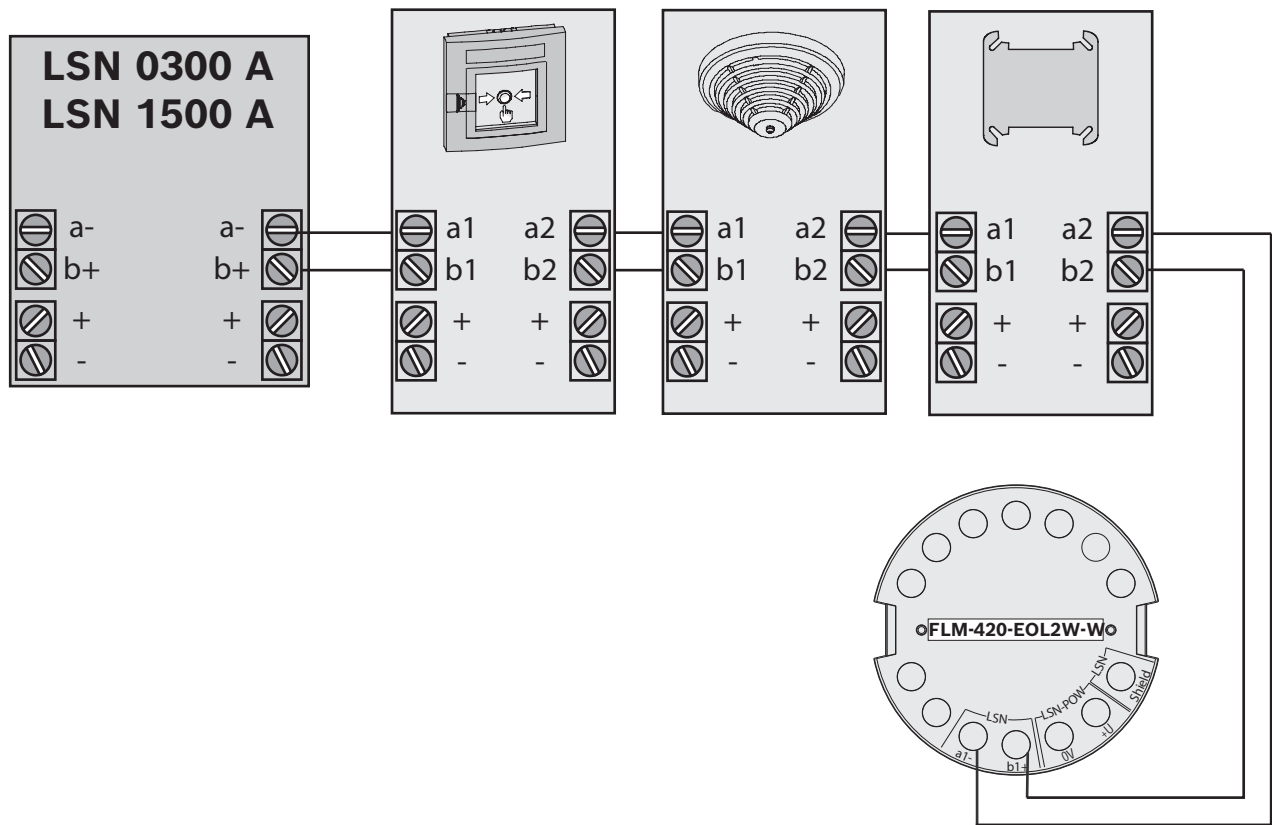
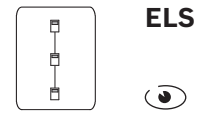
FMC-300RW-GSGBU  
FMC-300RW-GSRBU  
FMC-300RW-GSGRD  
FMC-300RW-GSRRD  
FMC-300RW-GSGYE  
FMC-300RW-GSRYE

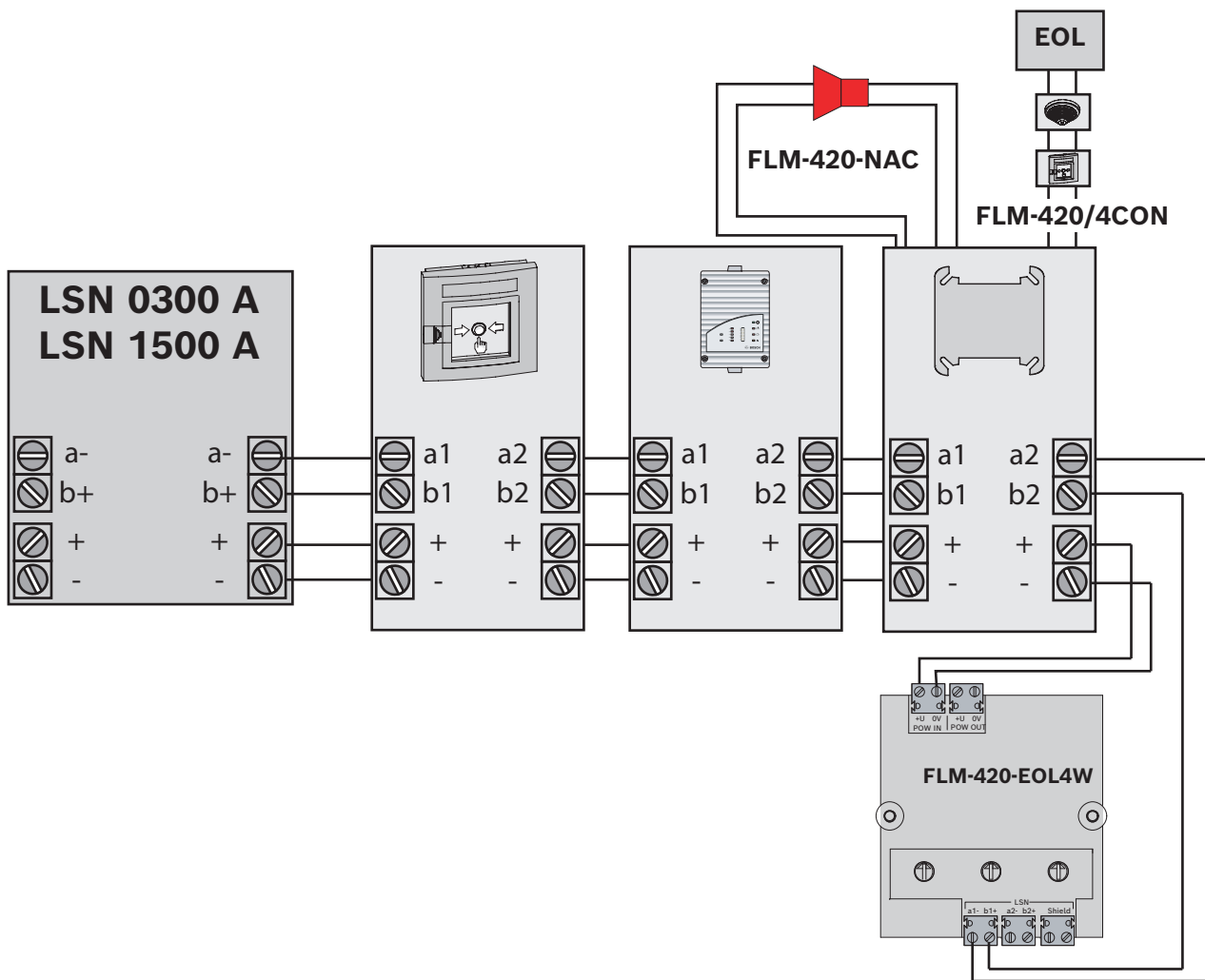
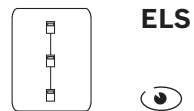


ELS

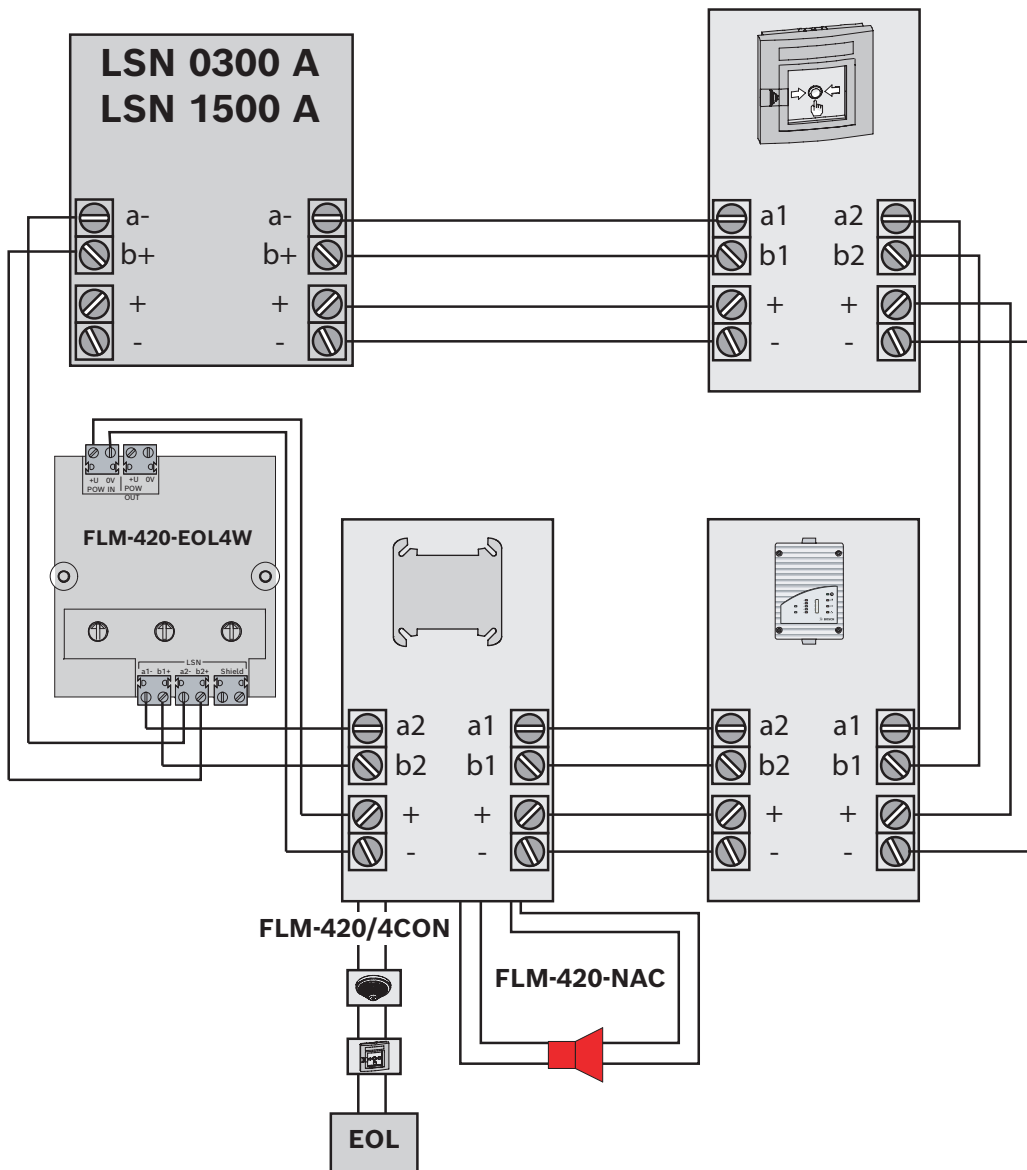
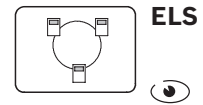


2.6.2 LSN 0300 A



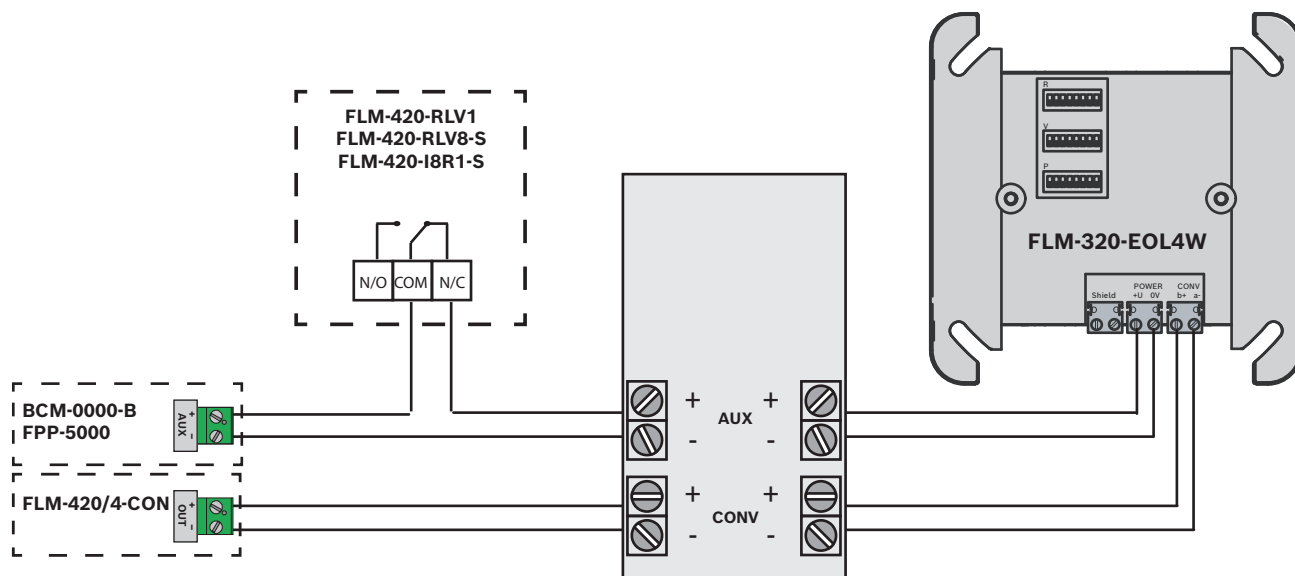


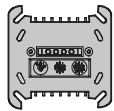
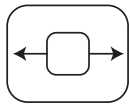




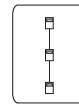
Reset action

ELS

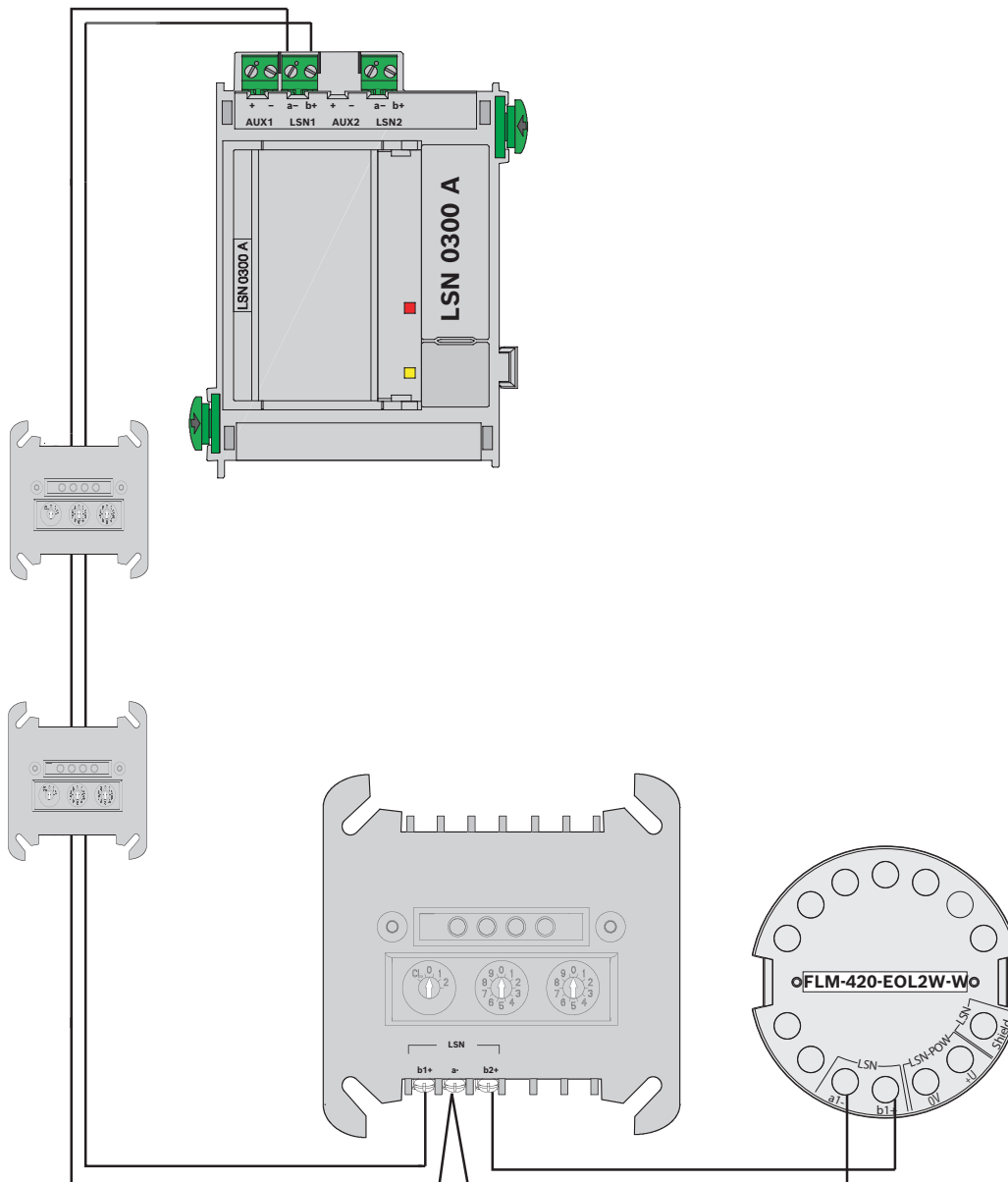


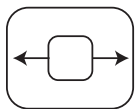


FLM-420-I2-D  
 FLM-420-O111-D  
 FLM-420-RHV-D/S  
 FLM-420-RLV1-D

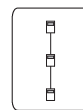


ELS

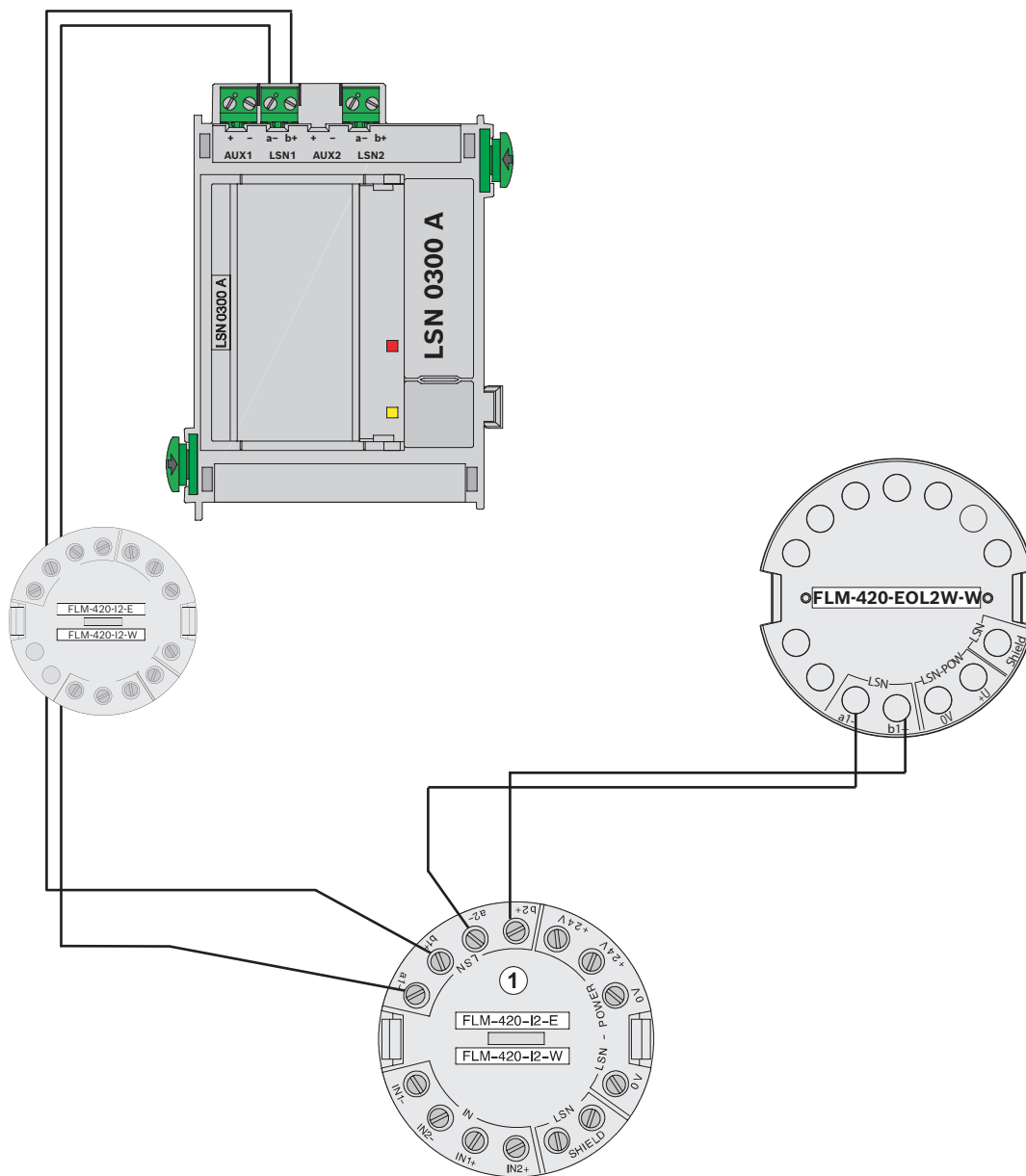


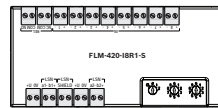
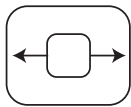


FLM-420-12-E/W

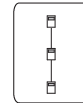


ELS

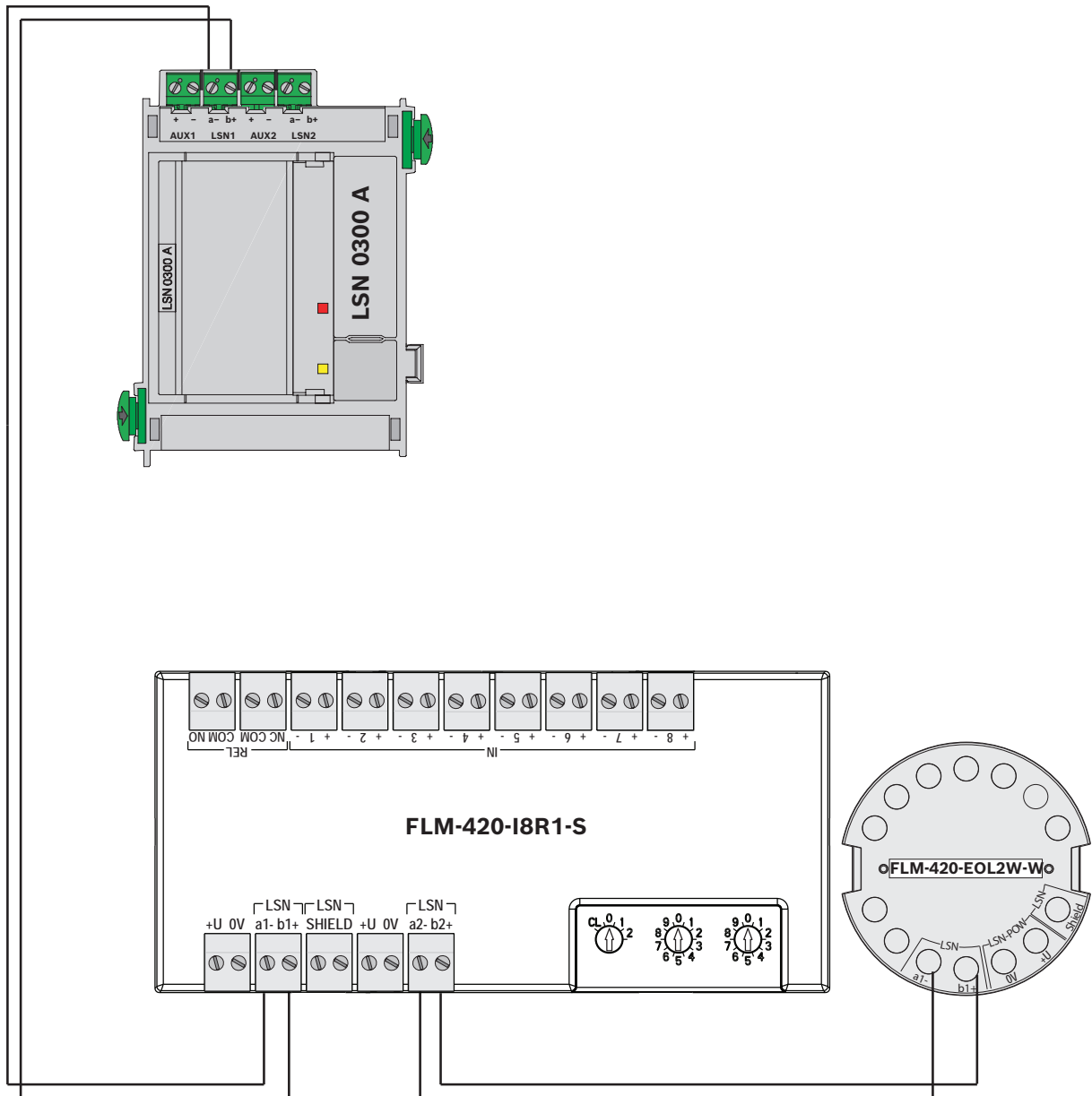


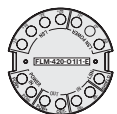
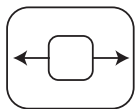


**FLM-420-18R1-S**

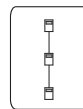


**ELS**

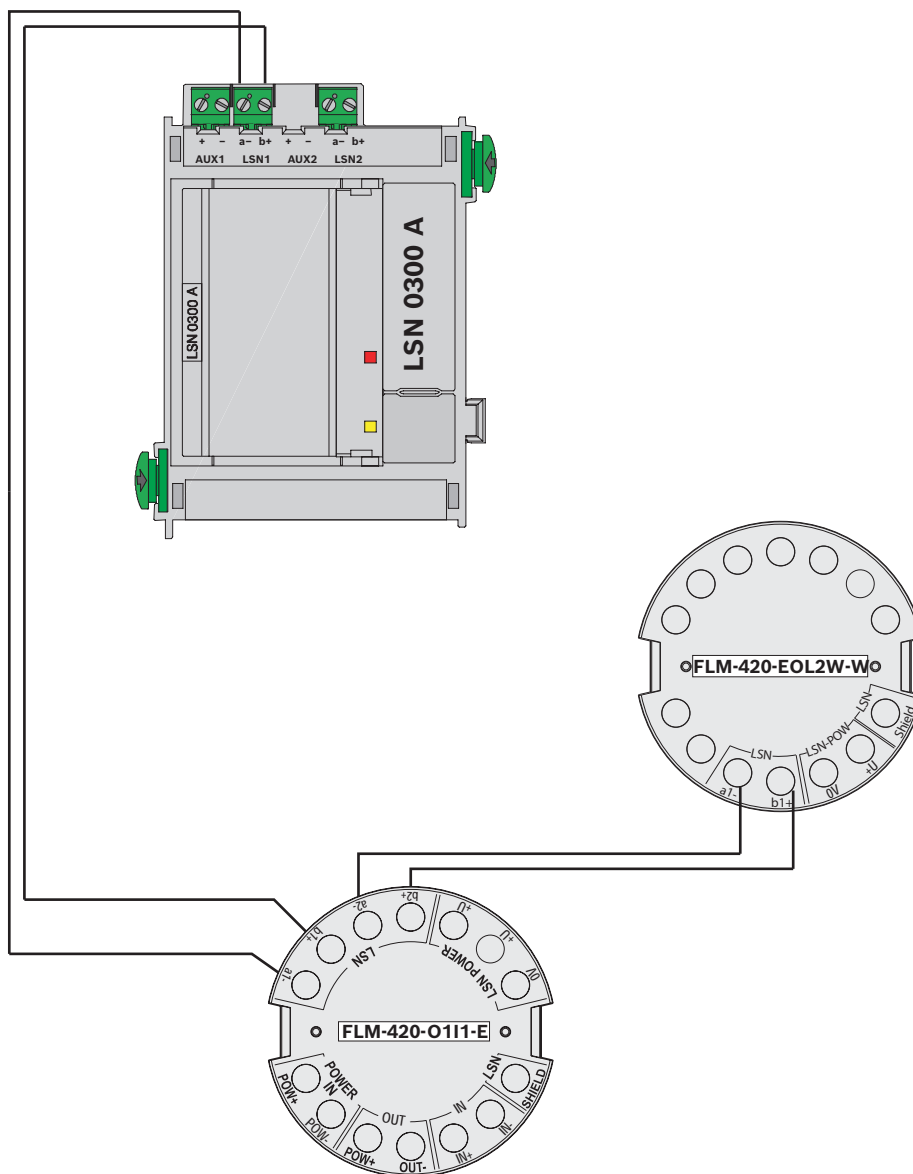


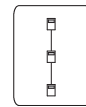
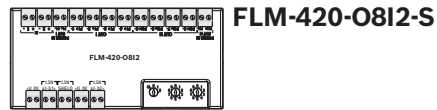
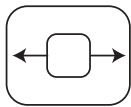


FLM-420-O111-E

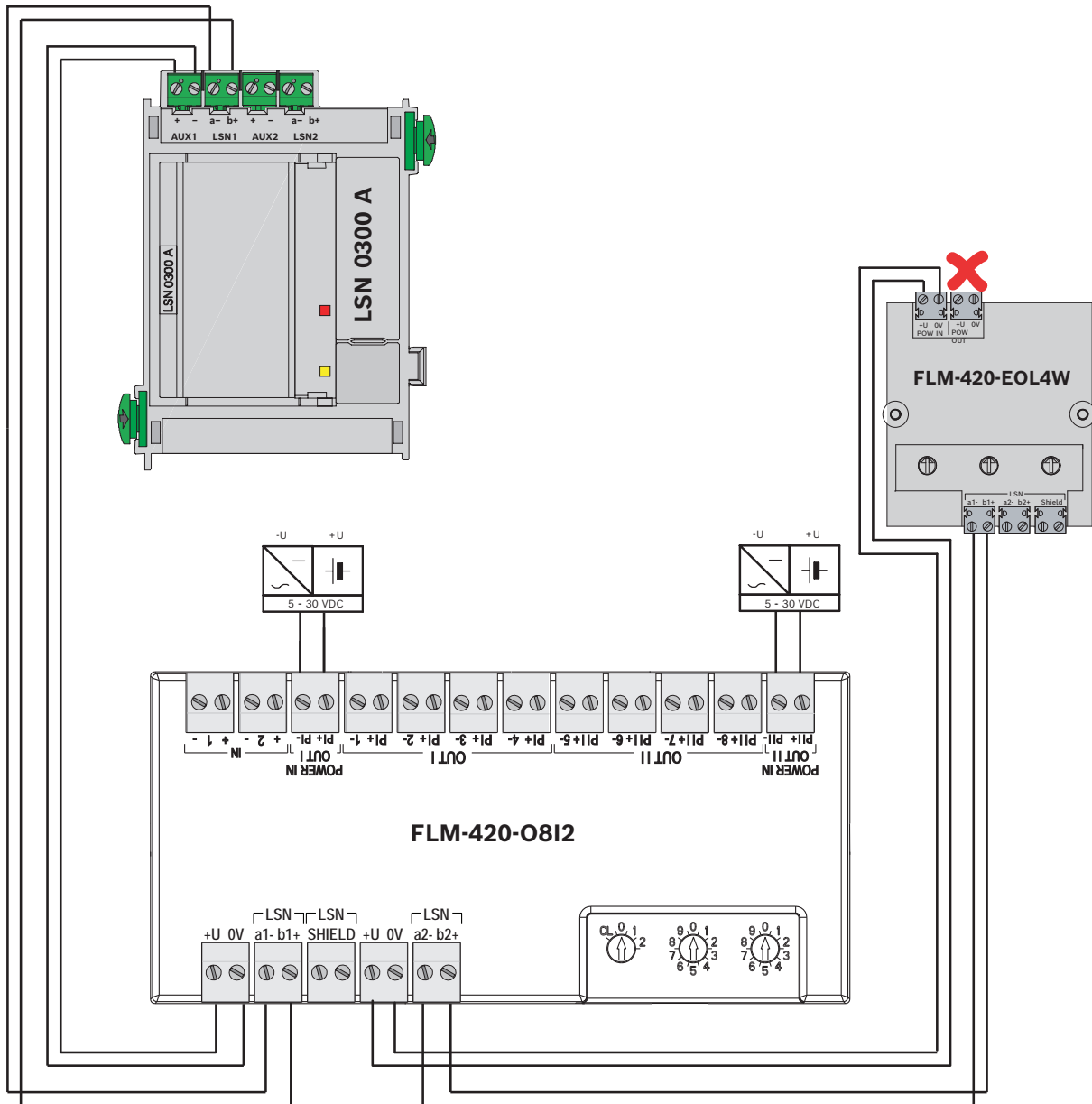


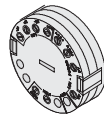
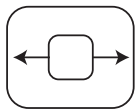
ELS



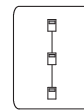


ELS

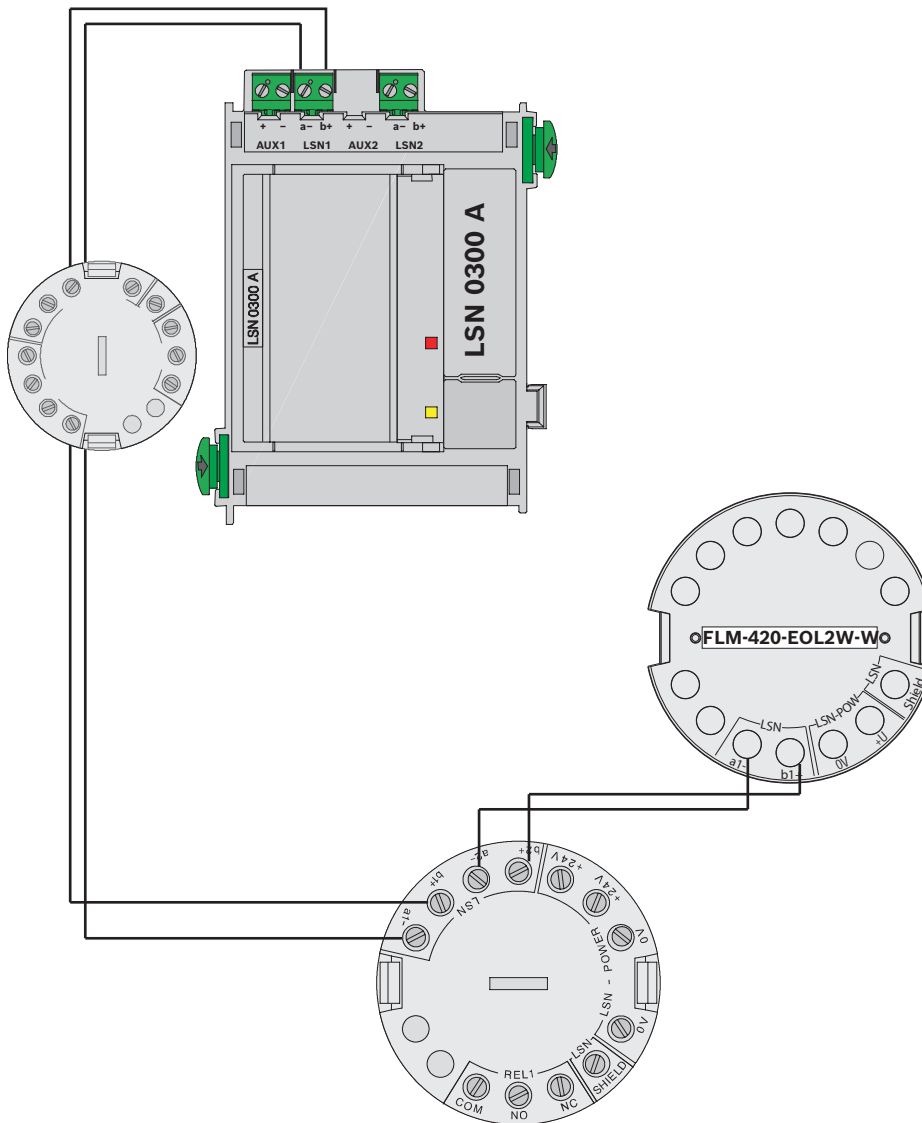




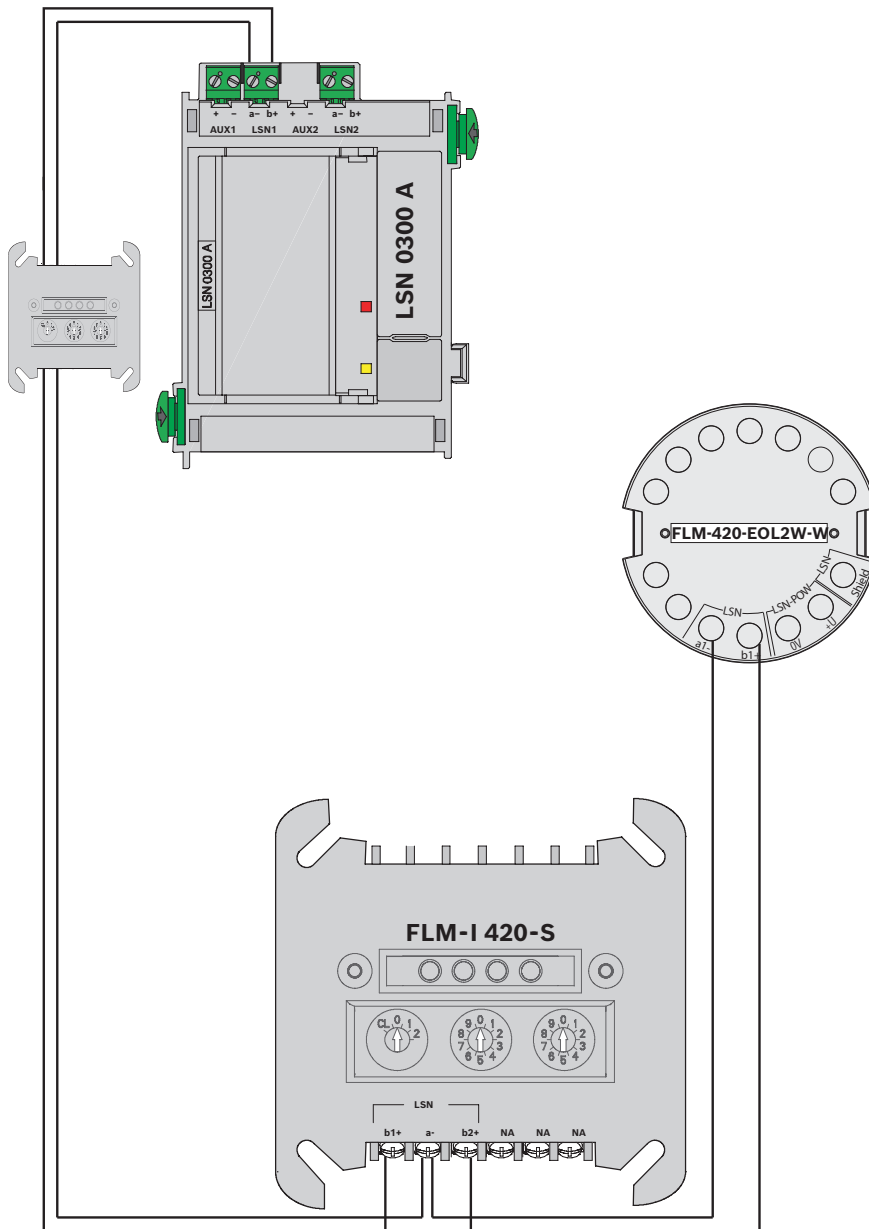
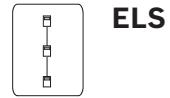
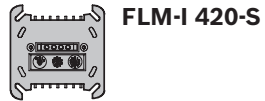
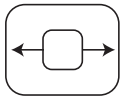
**FLM-420-I2-E/-W**  
**FLM-420-RLV1-E**

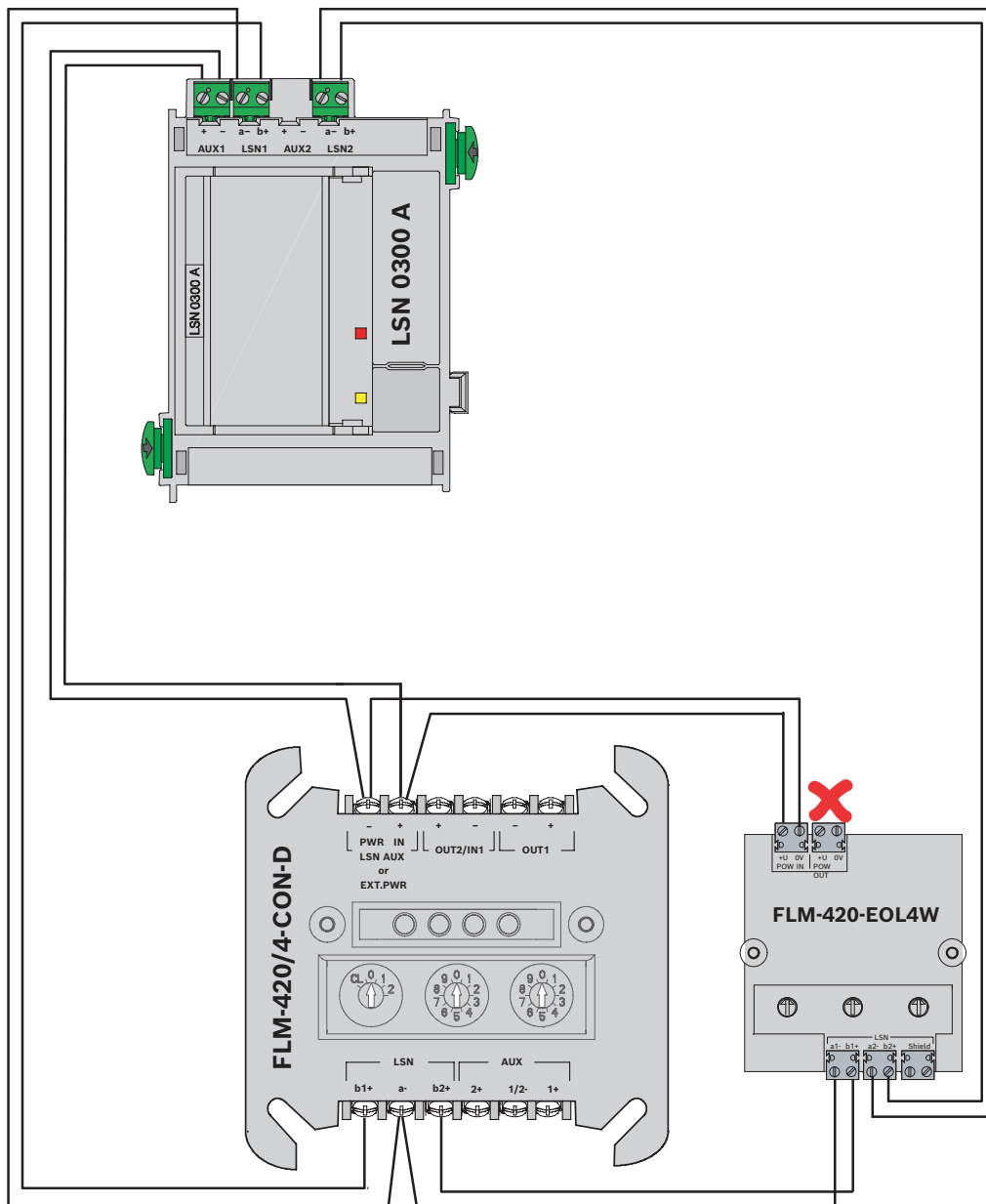
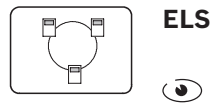
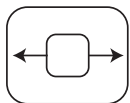


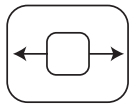
**ELS**



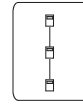




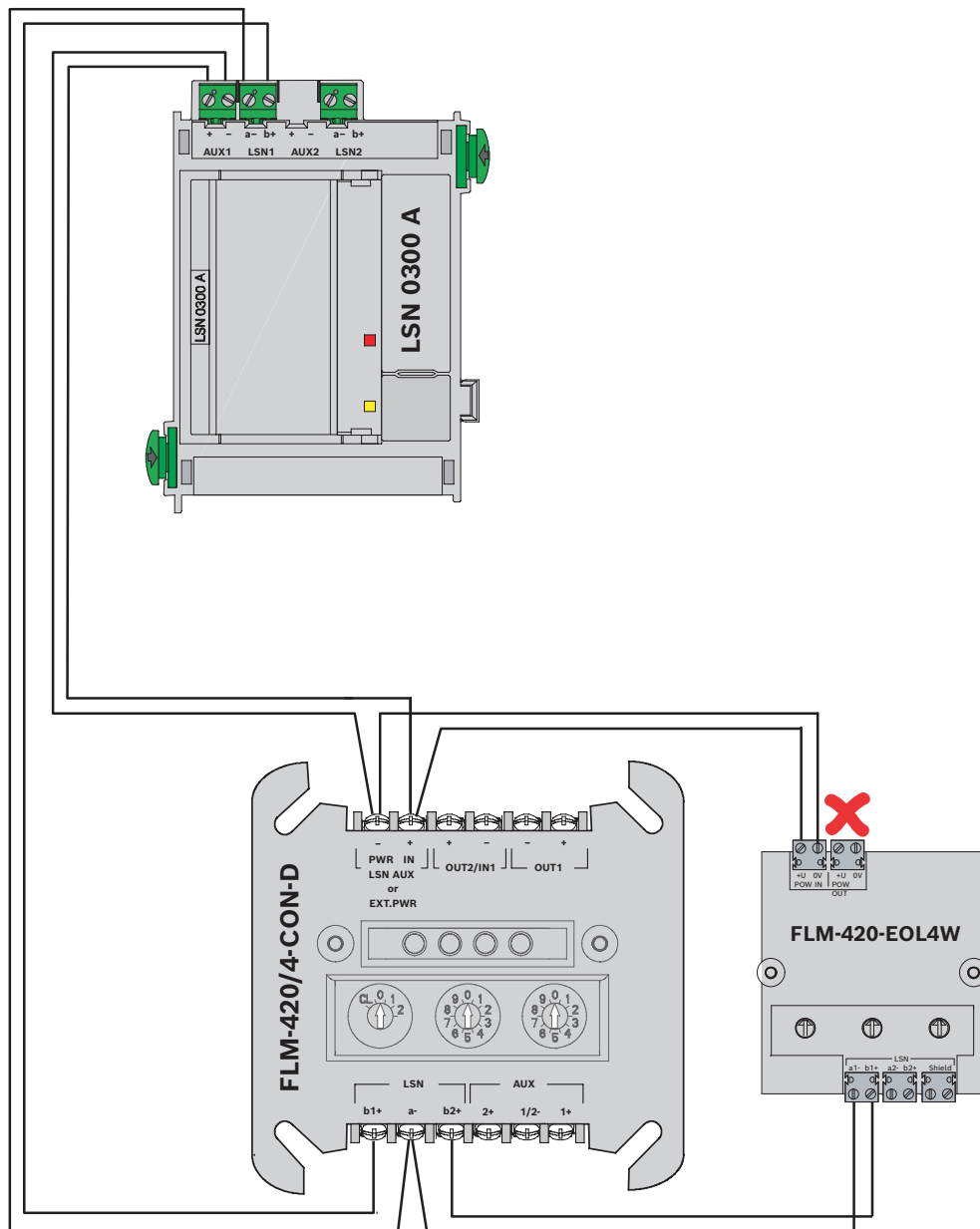


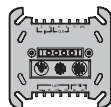
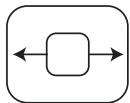


**FLM-420/  
4-CON-D**

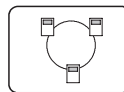


**ELS**

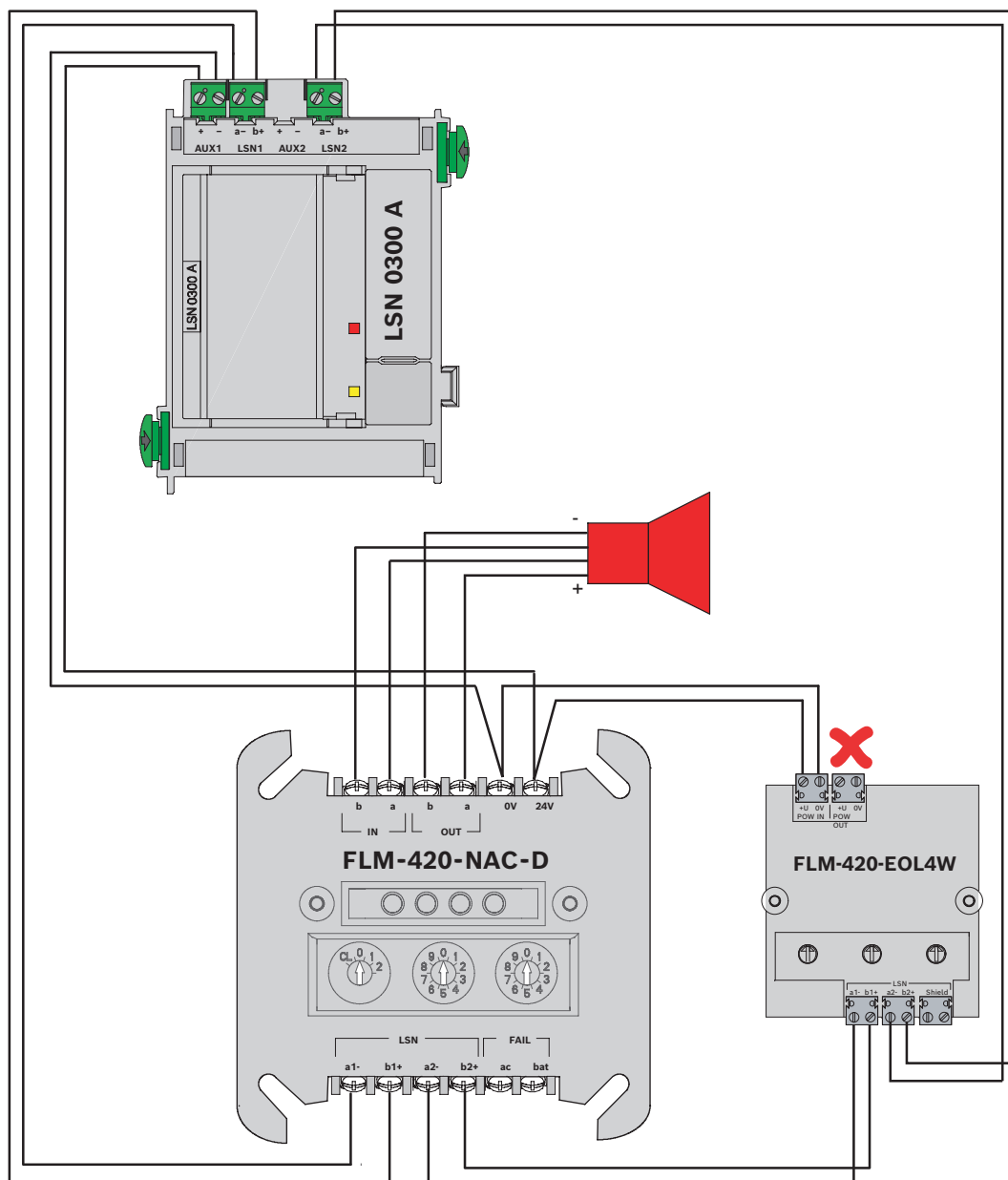


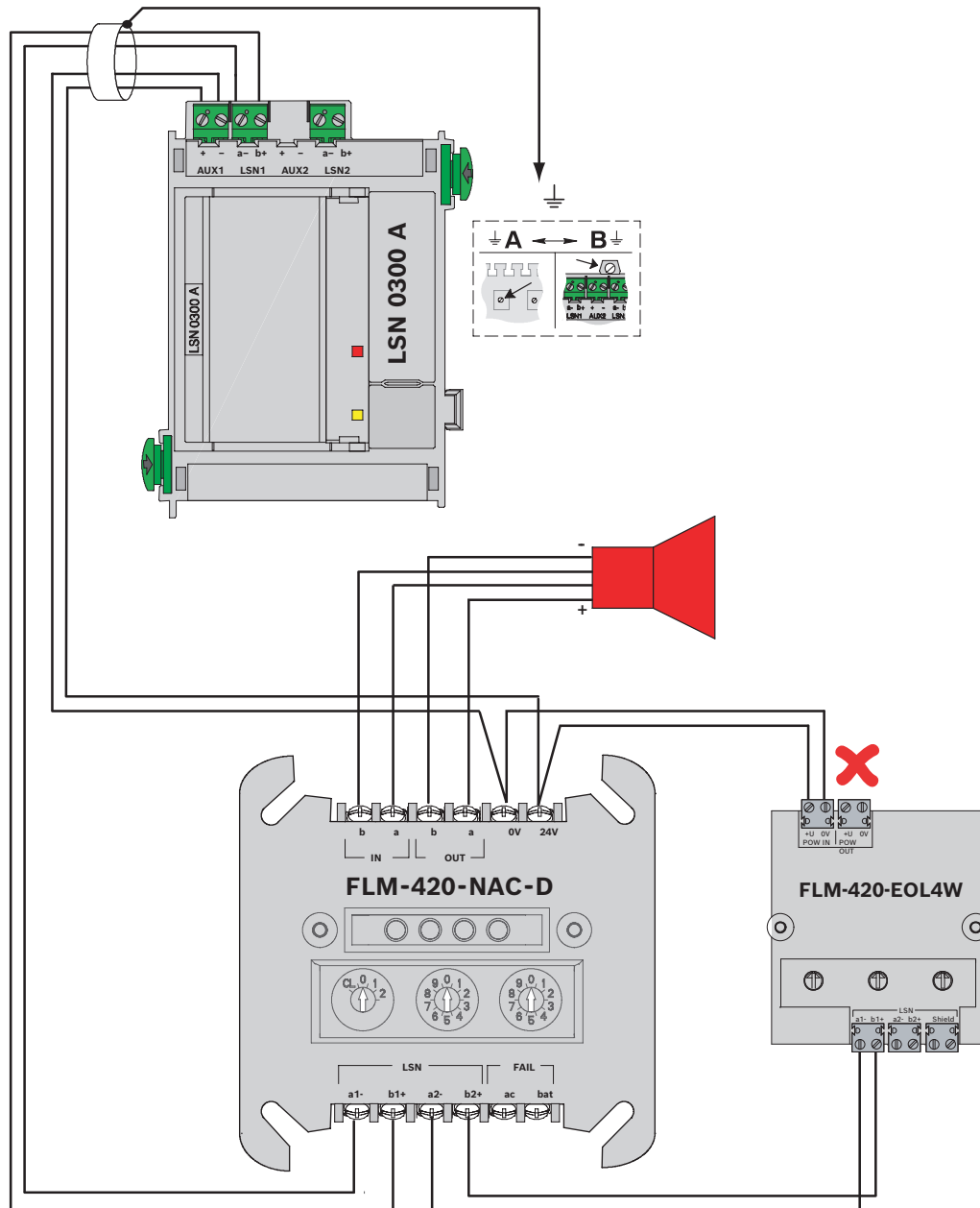
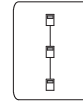
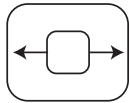


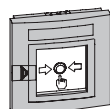
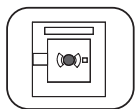
FLM-420-NAC-D/S



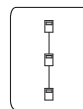
ELS  
EN 54-2



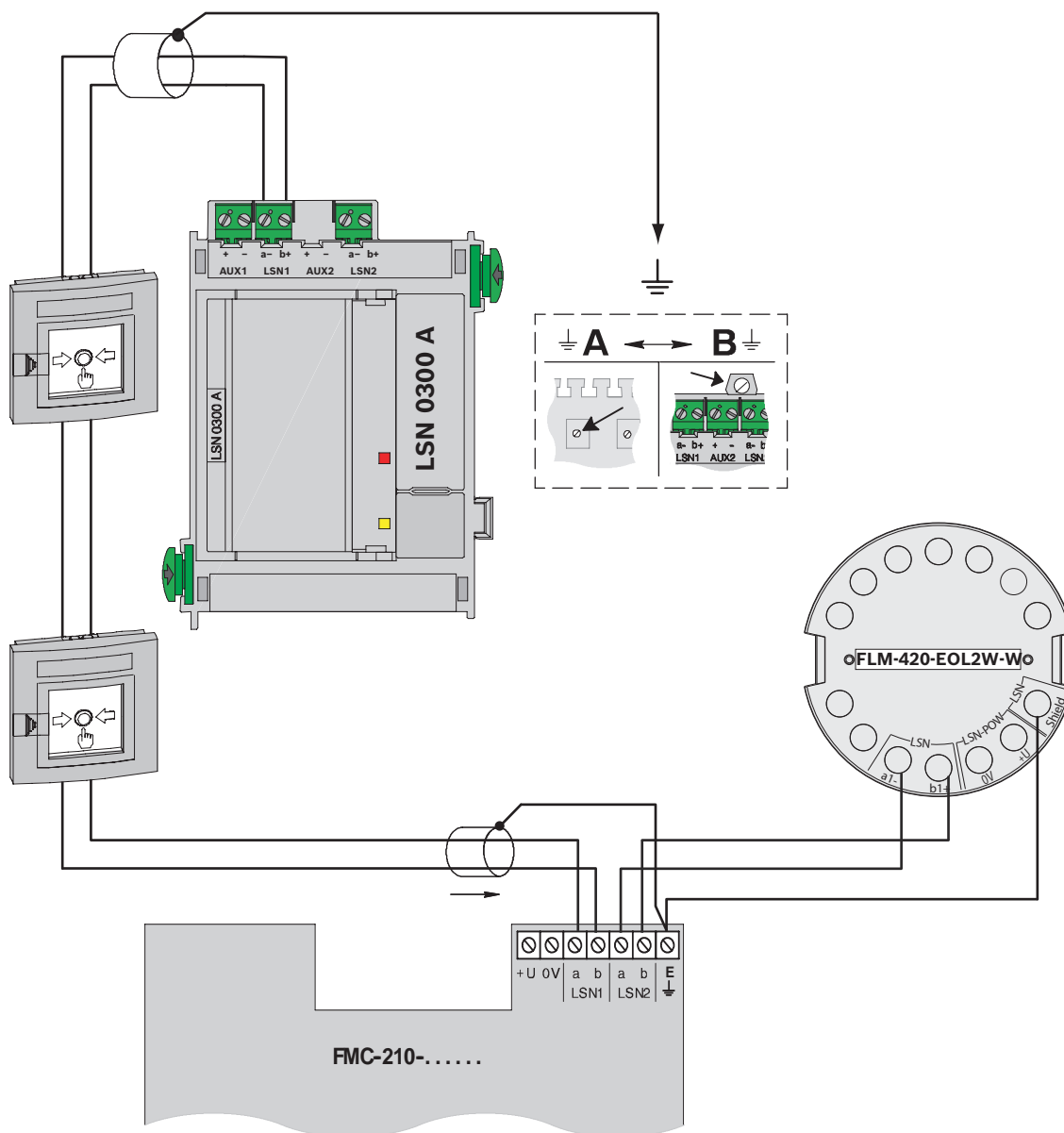


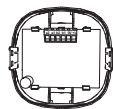


FMC-210...

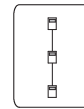


ELS

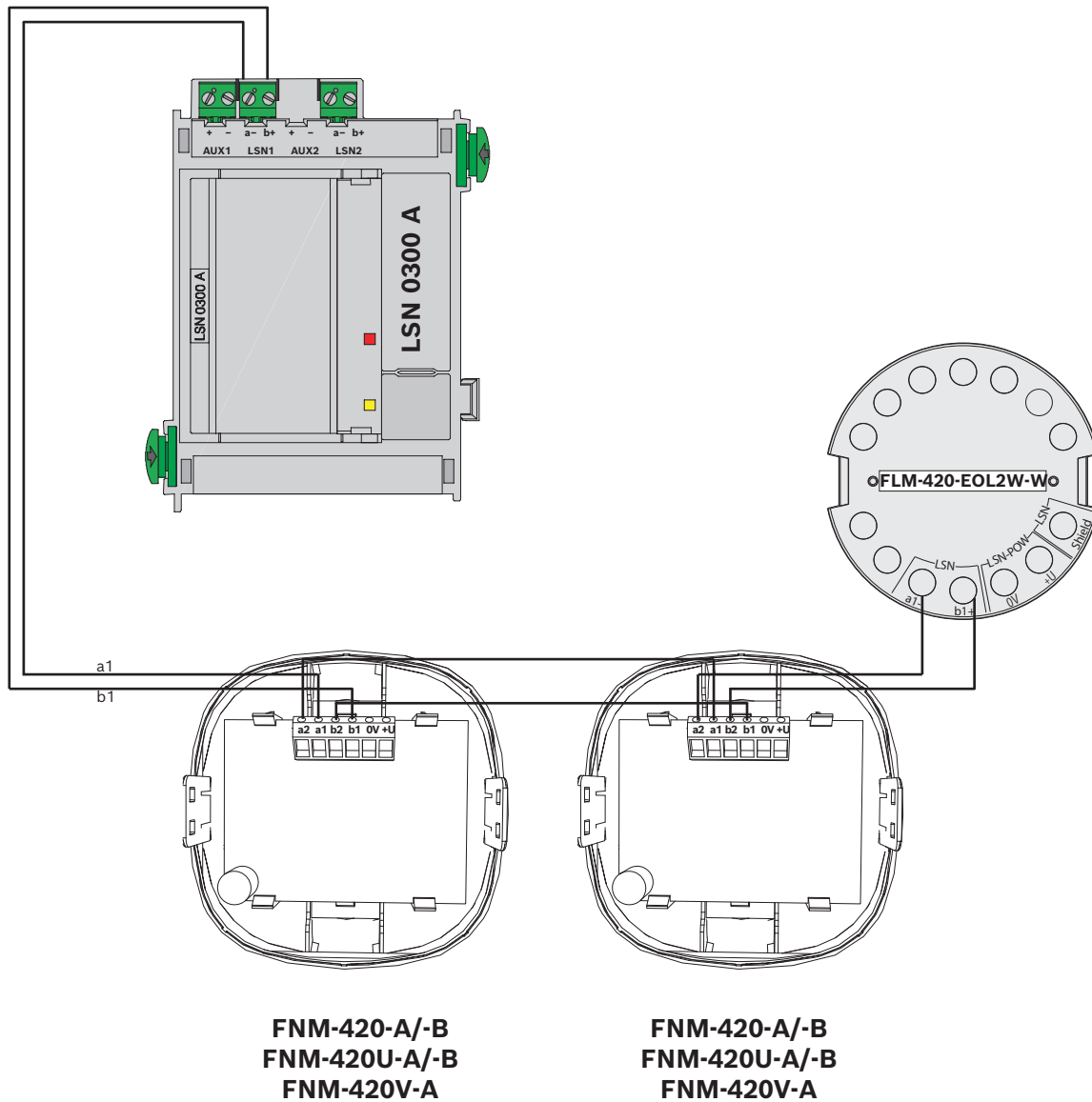




**FNM-420-A /-B**  
**FNM-420U-A /-B**  
**FNM-420V-A**



**ELS**

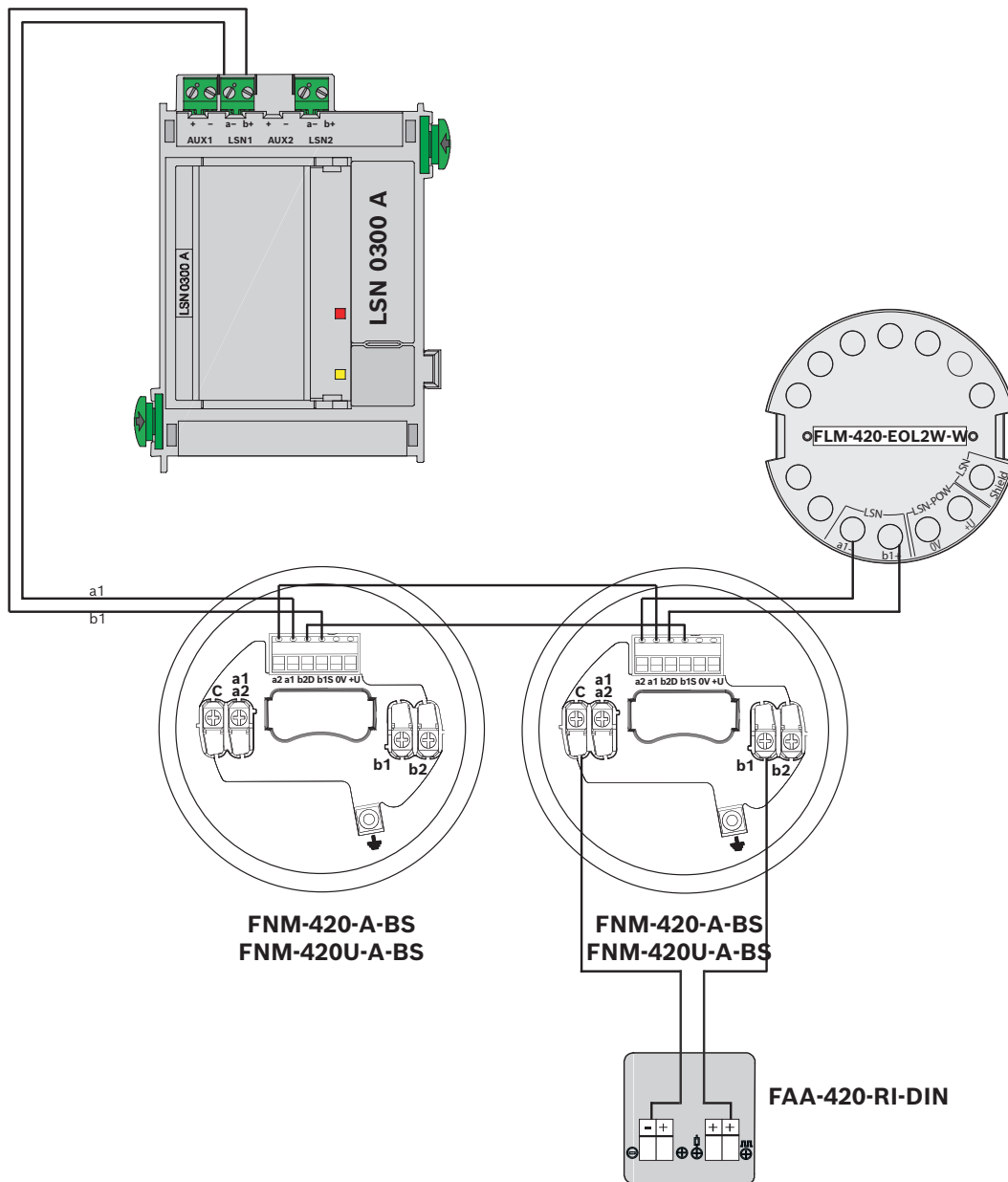




**FNM-420-A-BS**  
**FNM-420U-A-BS**



**ELS**



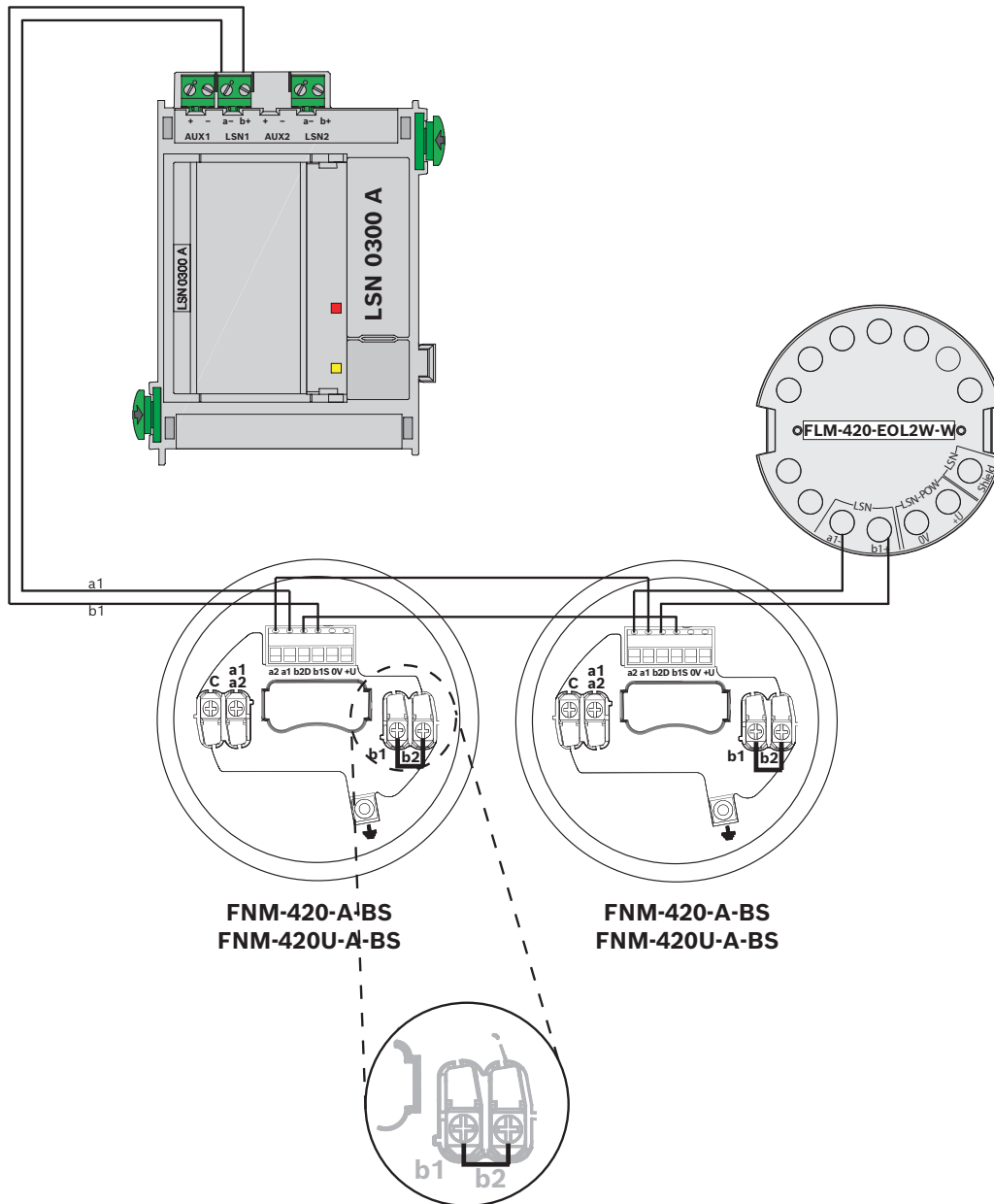


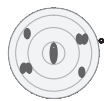


**FNM-420-A-BS**  
**FNM-420U-A-BS**



**ELS**

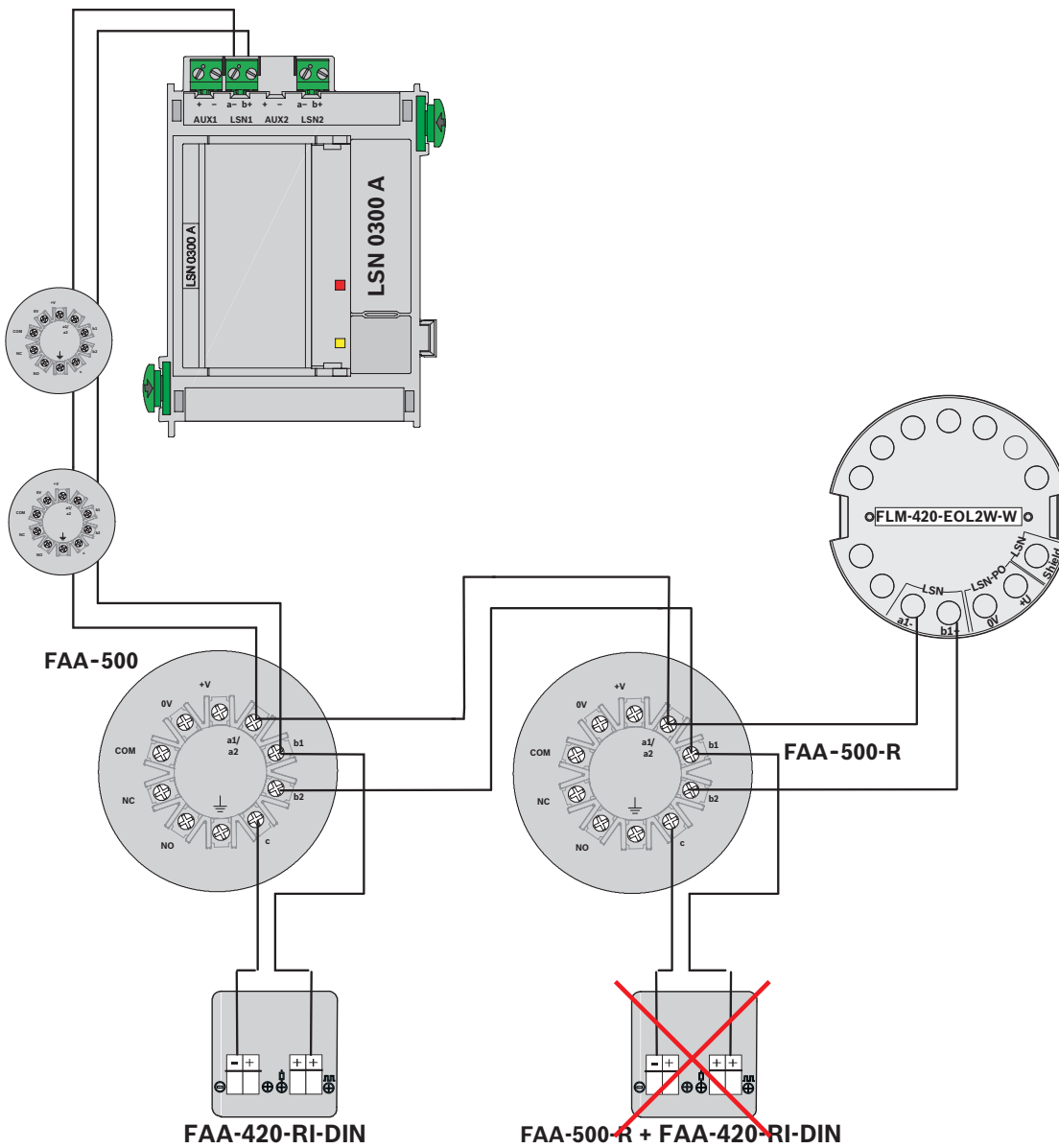


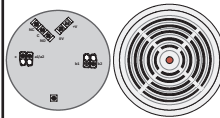


FAP-0520  
FAP-0520-P  
FAP-OC520  
FAP-OC-520-P

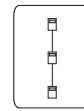


ELS

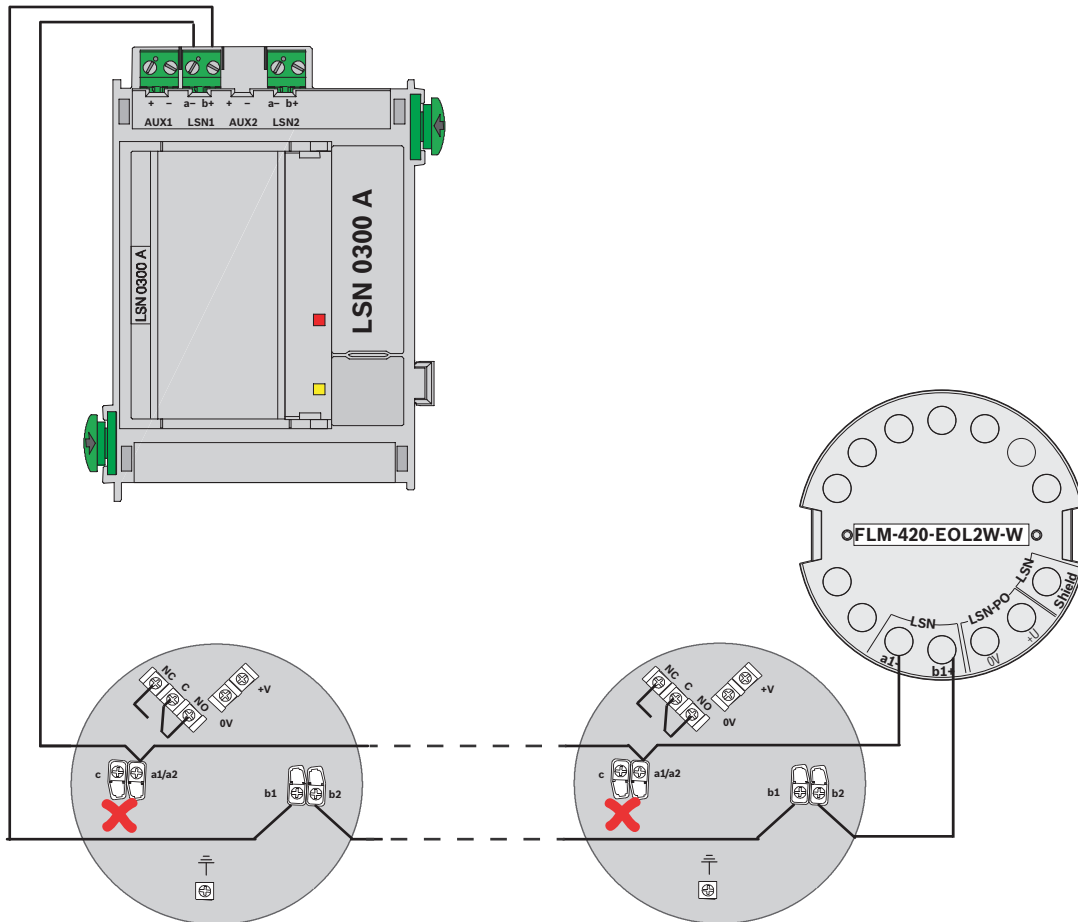


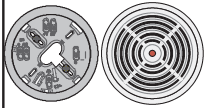


**FAA-MSR-420**  
**FAP-425-O, FAP-425-O-R**  
**FAP-425-OT, FAP-425-OT-R**  
**FAP-425-T-R**  
**FAP-425-DO-R, FAP-425-DOT-R**  
**FAP-425-DOTC-R, FAP-425-DOTCO-R**



**ELS**

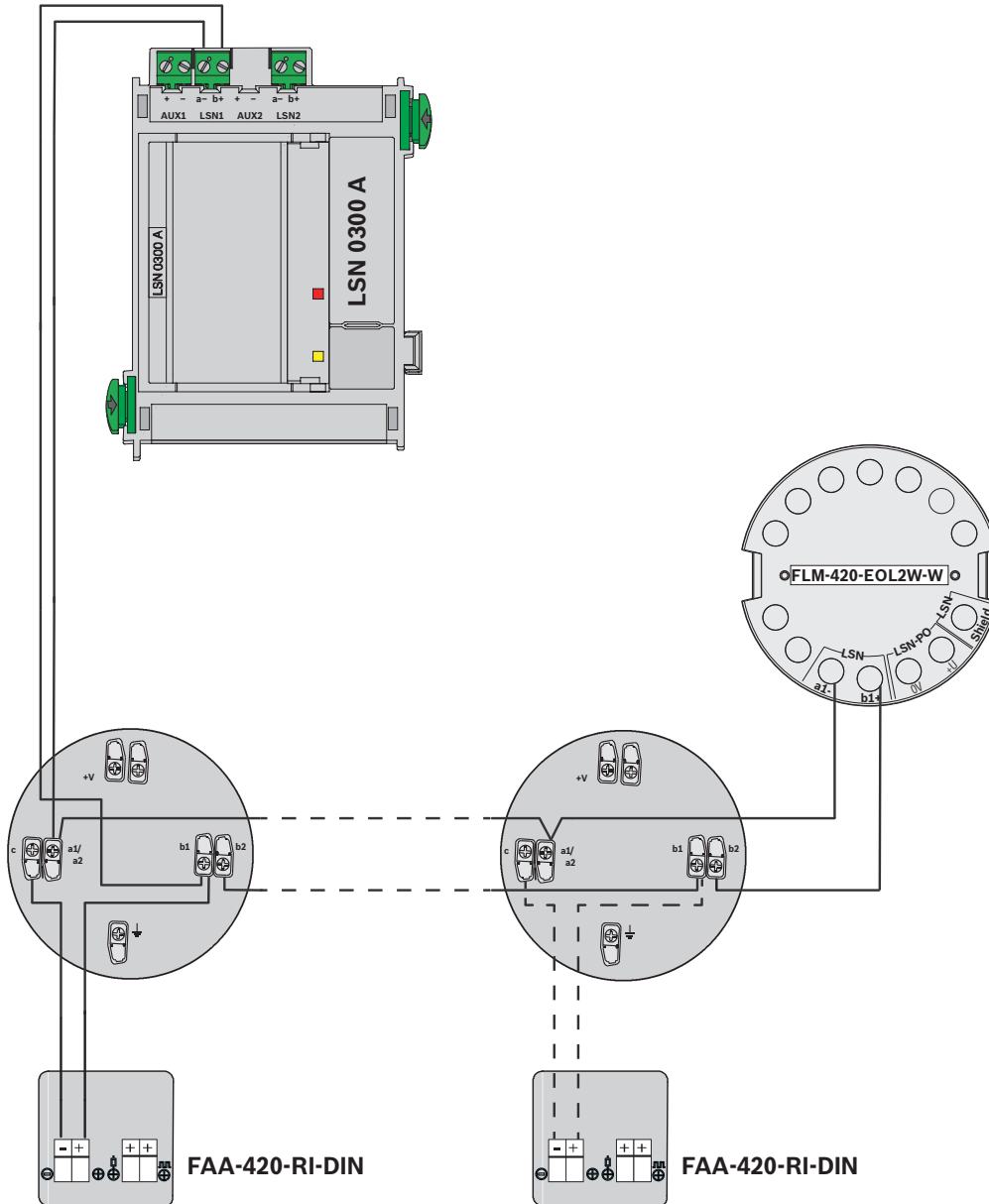


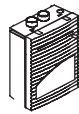


MS 400, MS 400 B  
 FAP-425-O, FAP-425-O-R  
 FAP-425-OT, FAP-425-OT-R  
 FAP-425-T-R  
 FAP-425-DO-R, FAP-425-DOT-R  
 FAP-425-DOTC-R, FAP-425-DOTCO-R

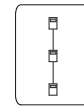


ELS

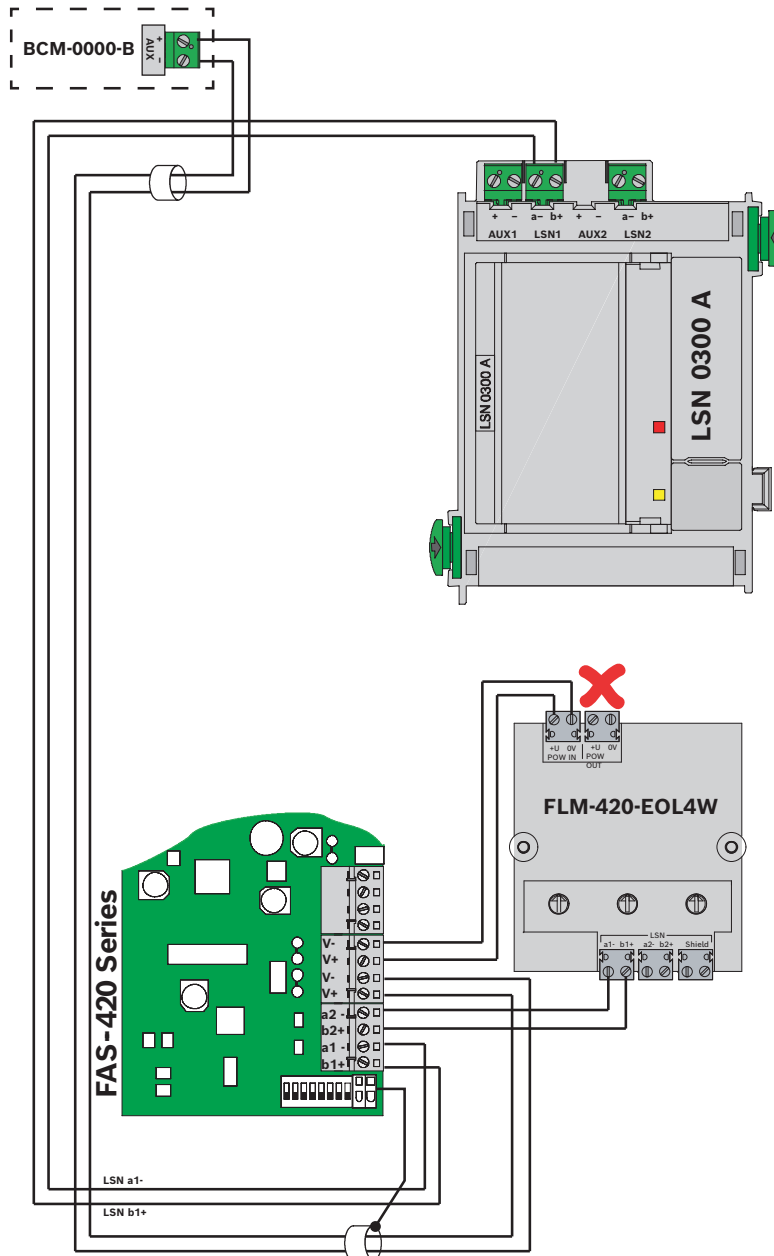


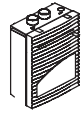


FAS-420 Series

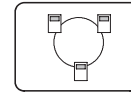


ELS

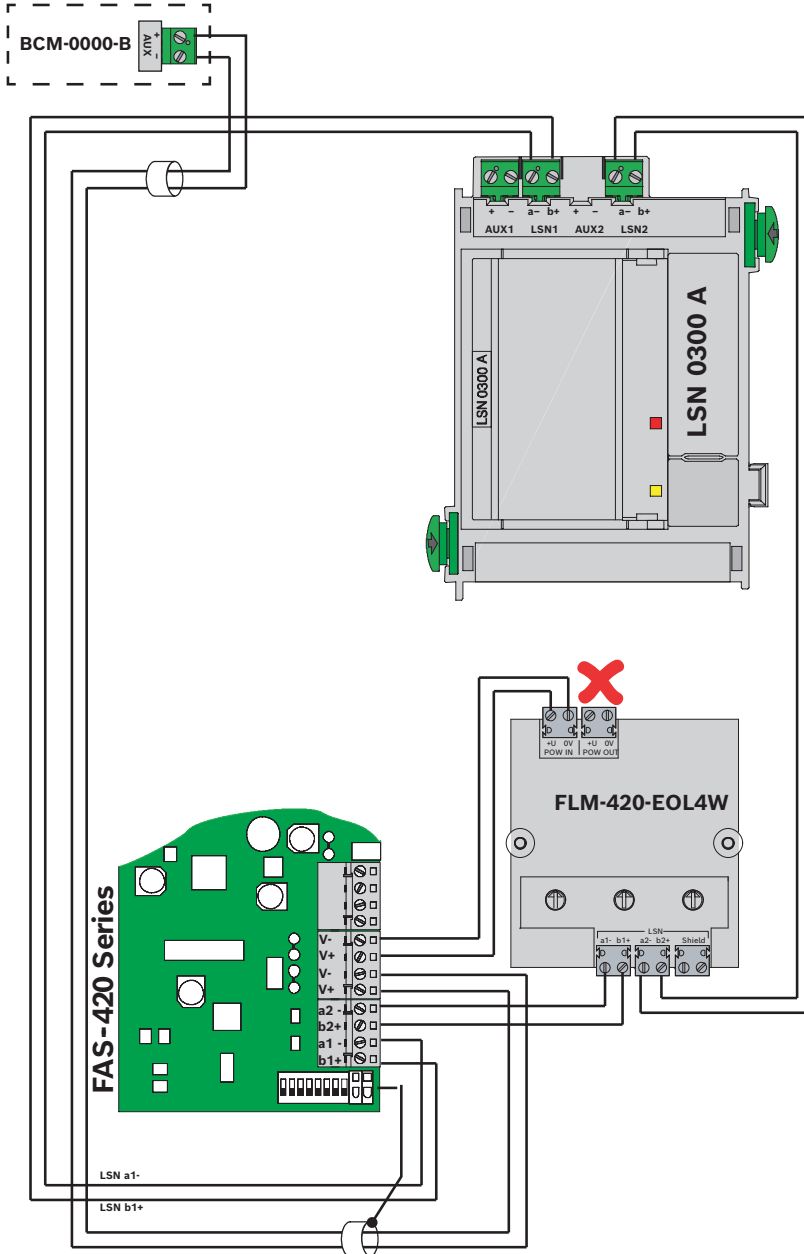


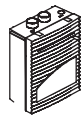


FAS-420 Series

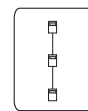


ELS

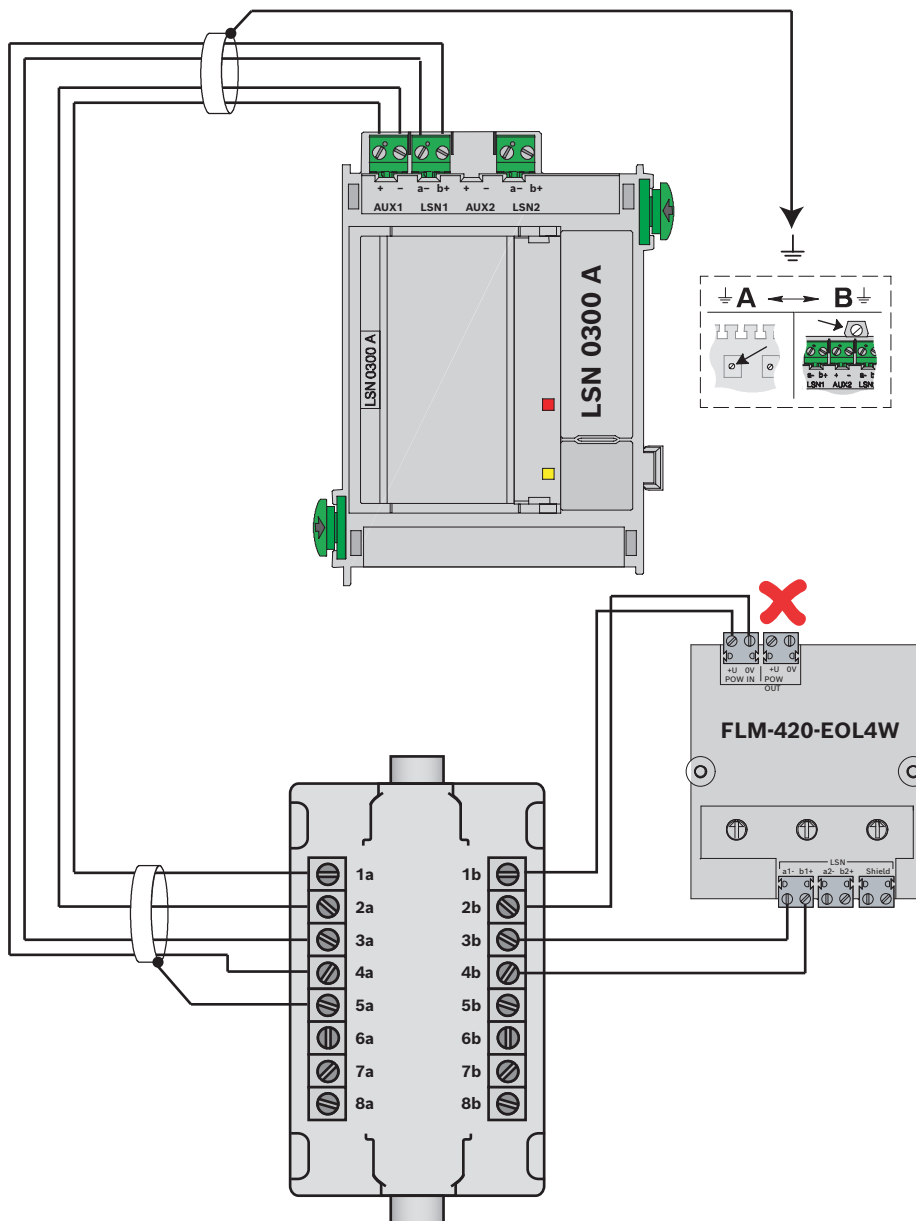


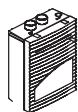


FAS-420-TM Series

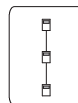


ELS

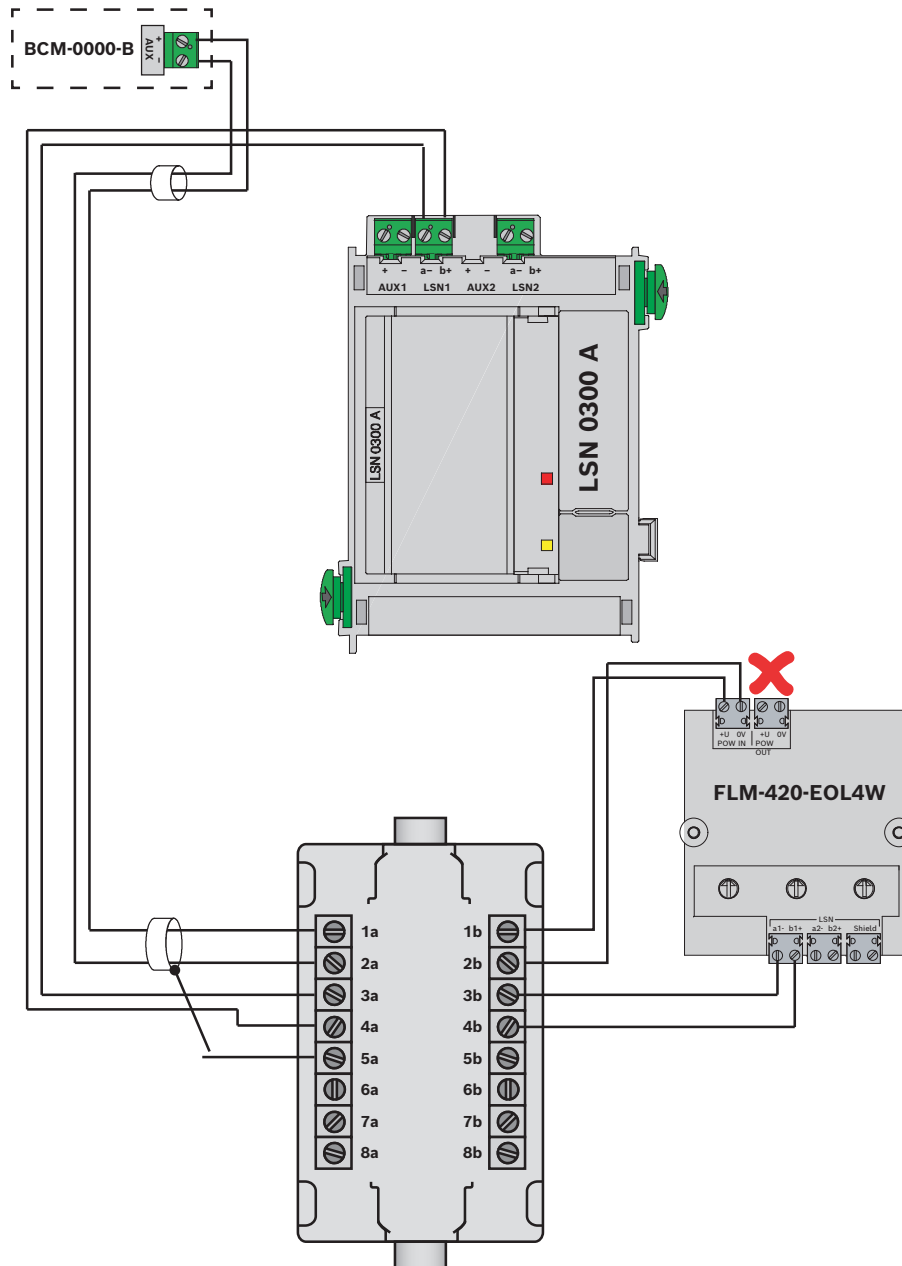




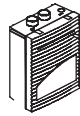
FAS-420-TM Series



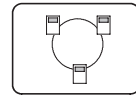
ELS



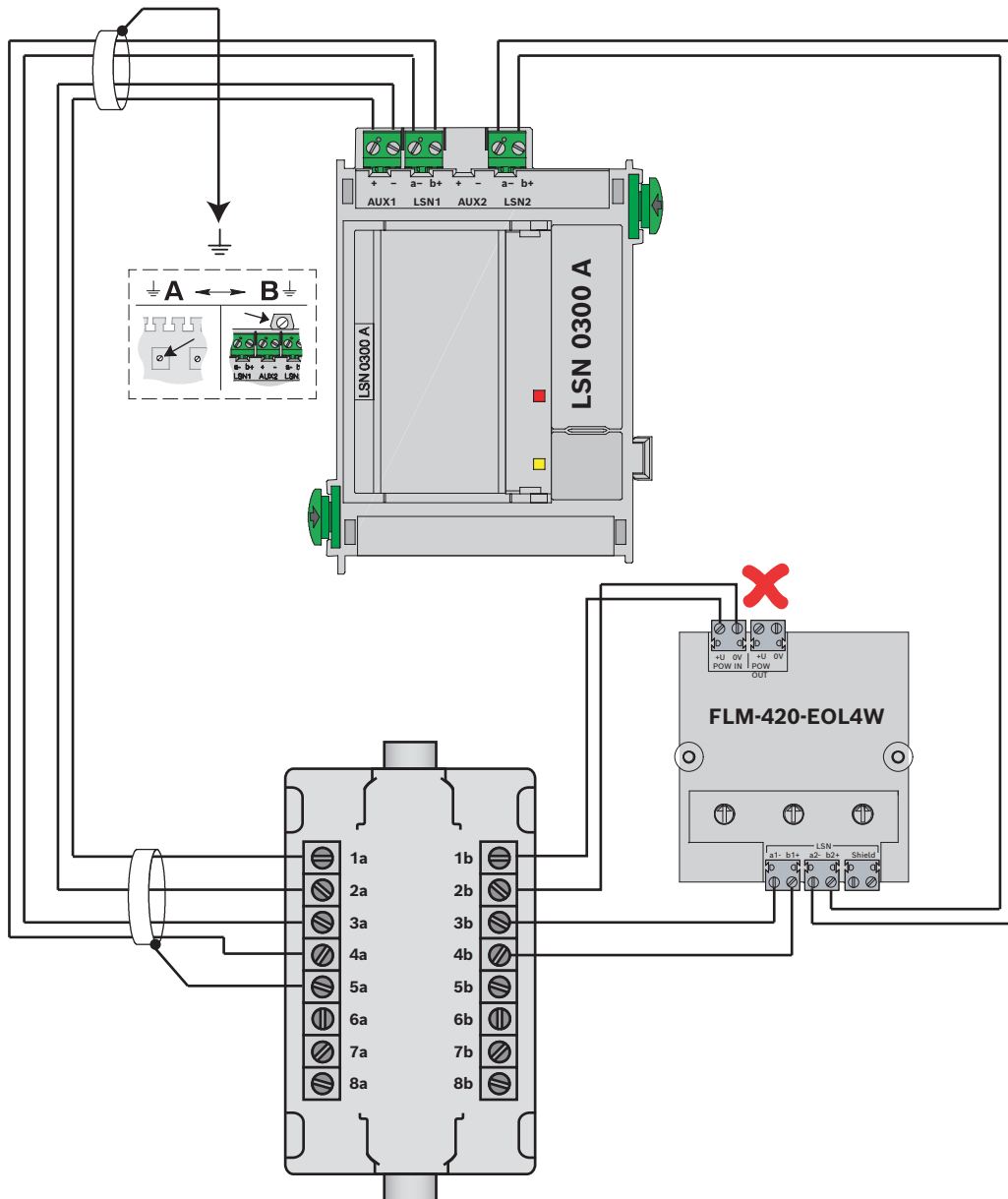


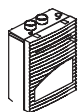


FAS-420-TM Series

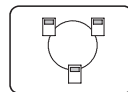


ELS

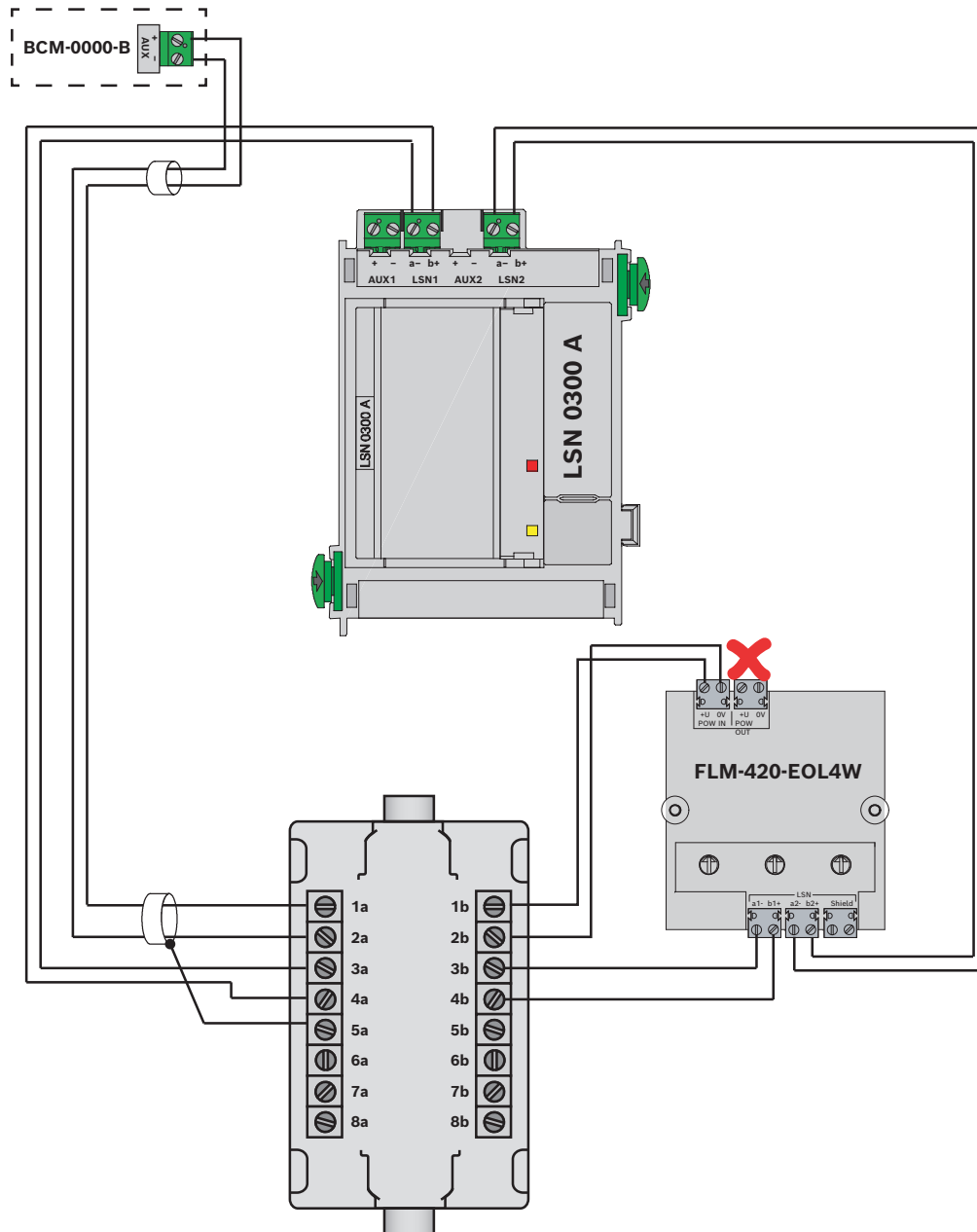




FAS-420-TM Series

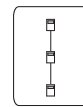


ELS

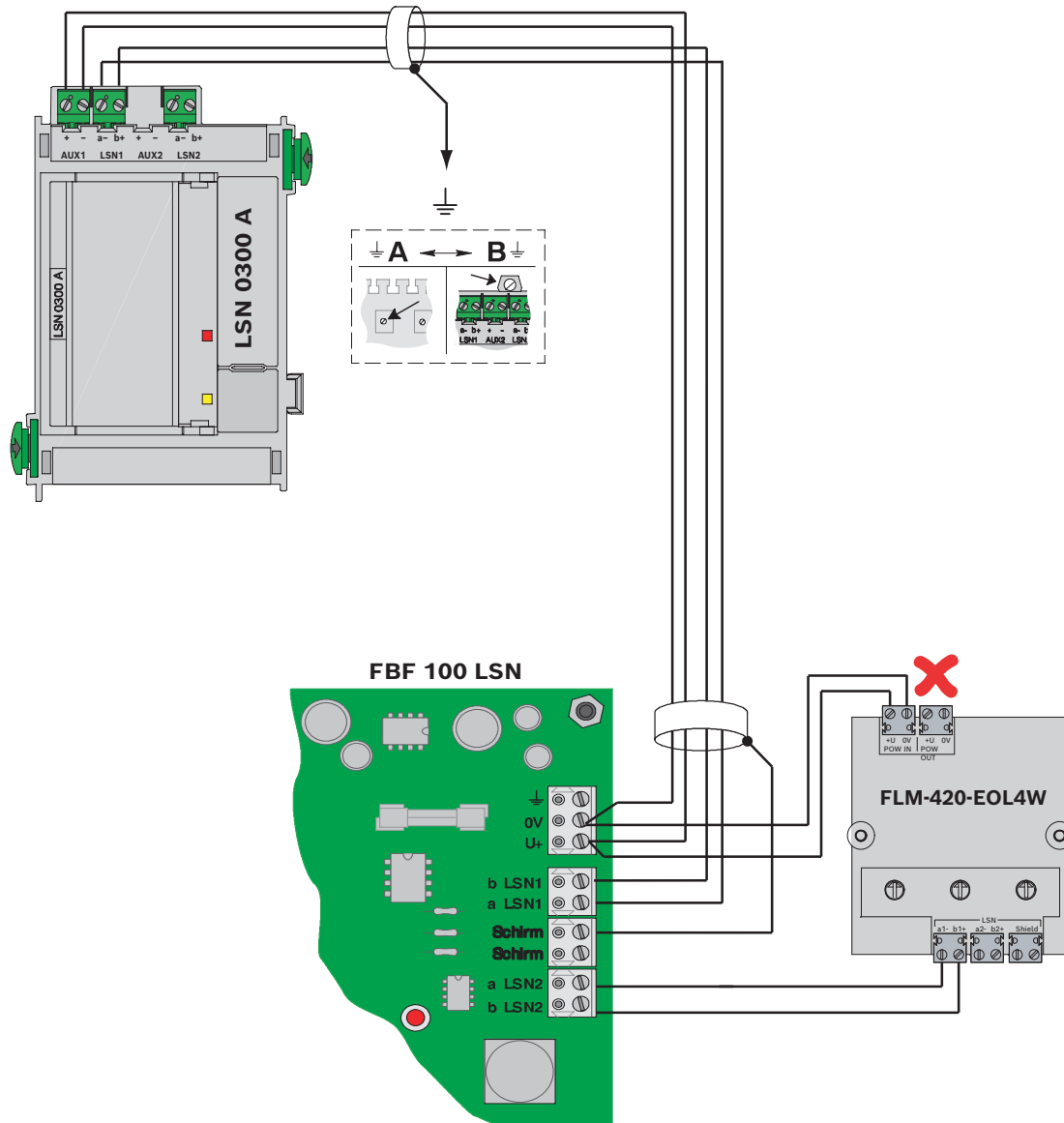




**FBW 100 LSN**

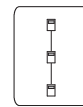


**ELS**

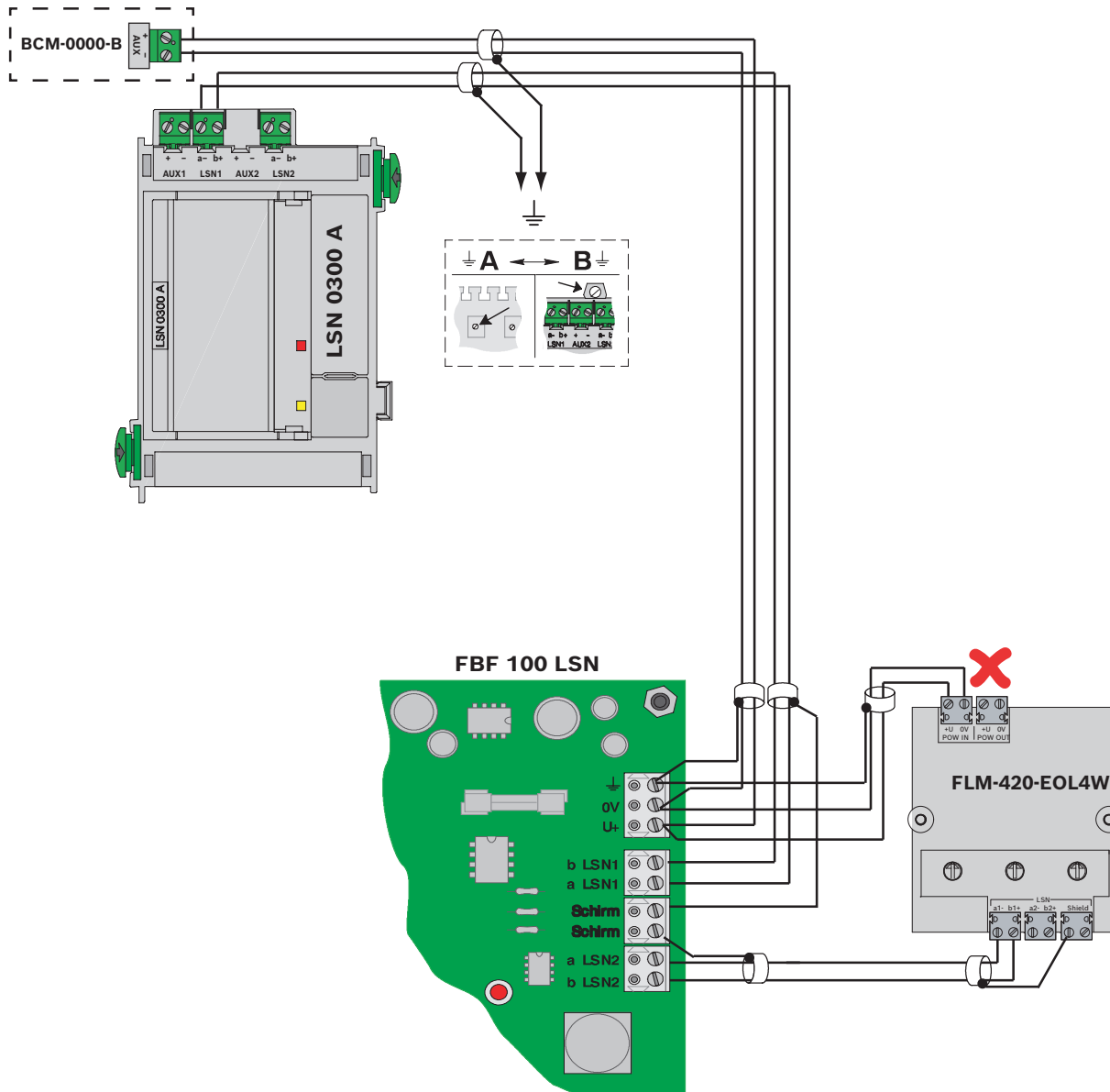




FBF 100 LSN

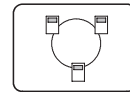


ELS

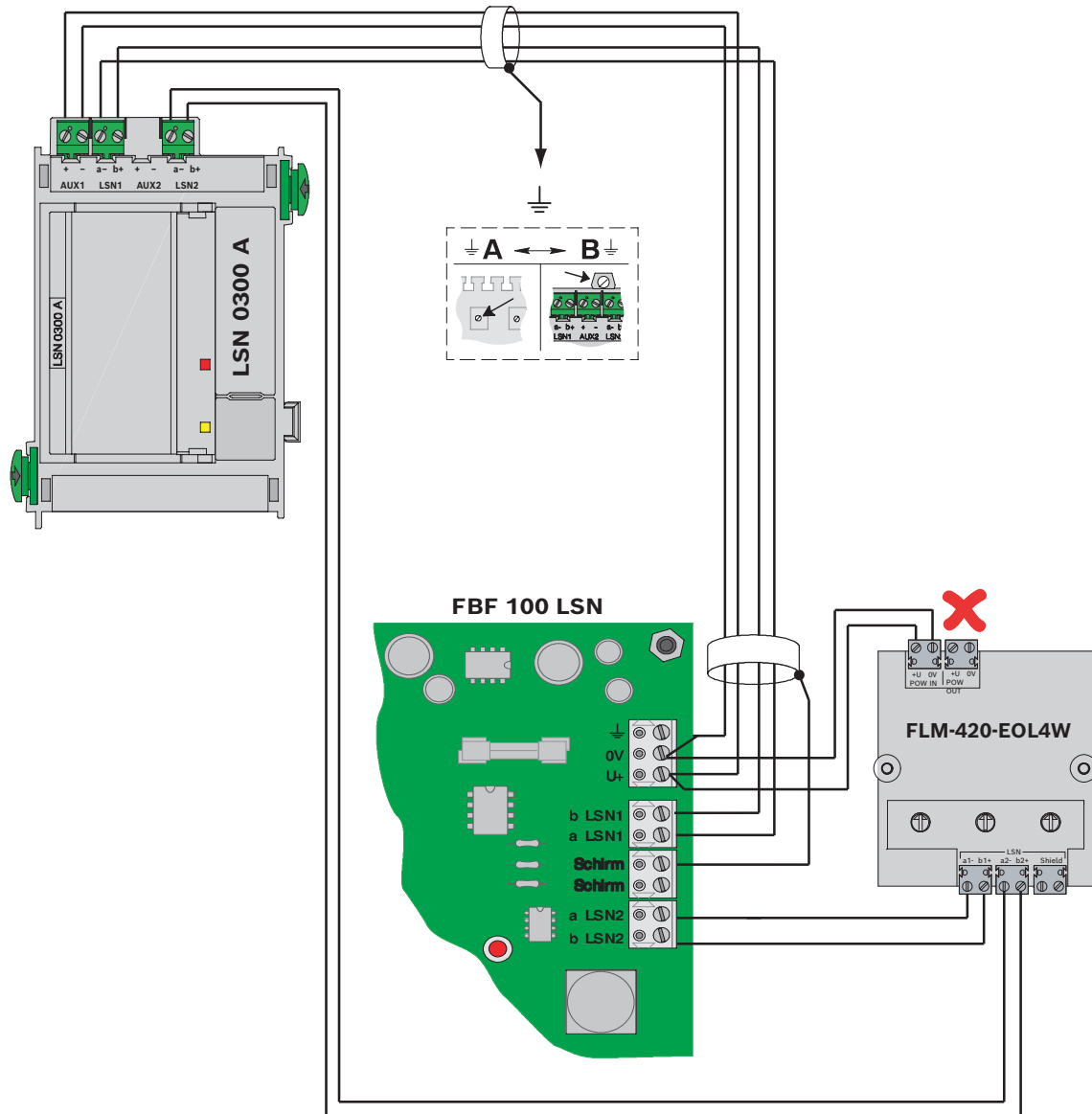




**FBF 100 LSN**

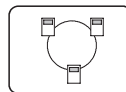


**ELS**

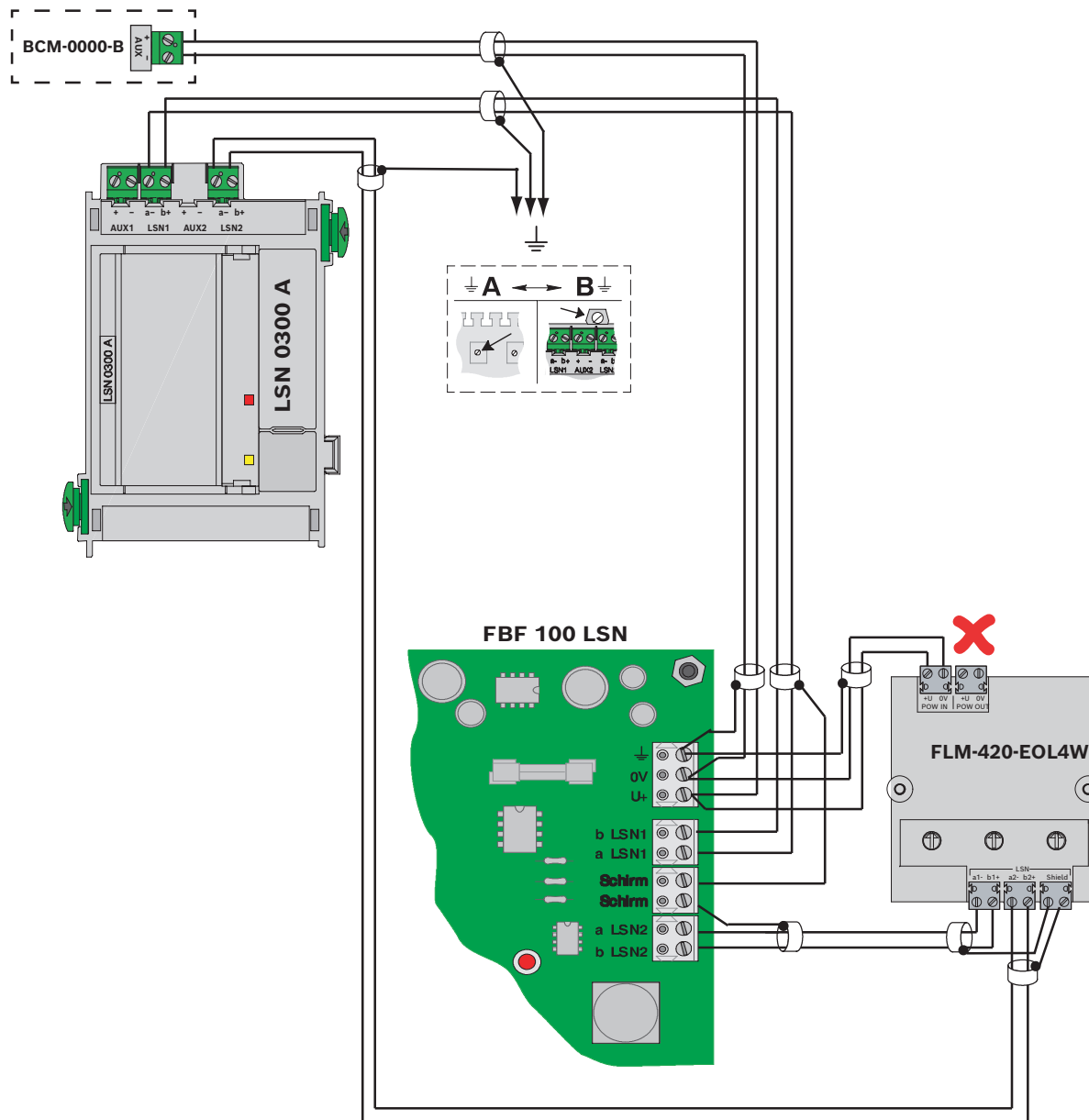


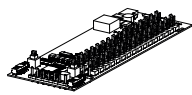


**FBF 100 LSN**

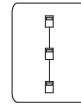


**ELS**

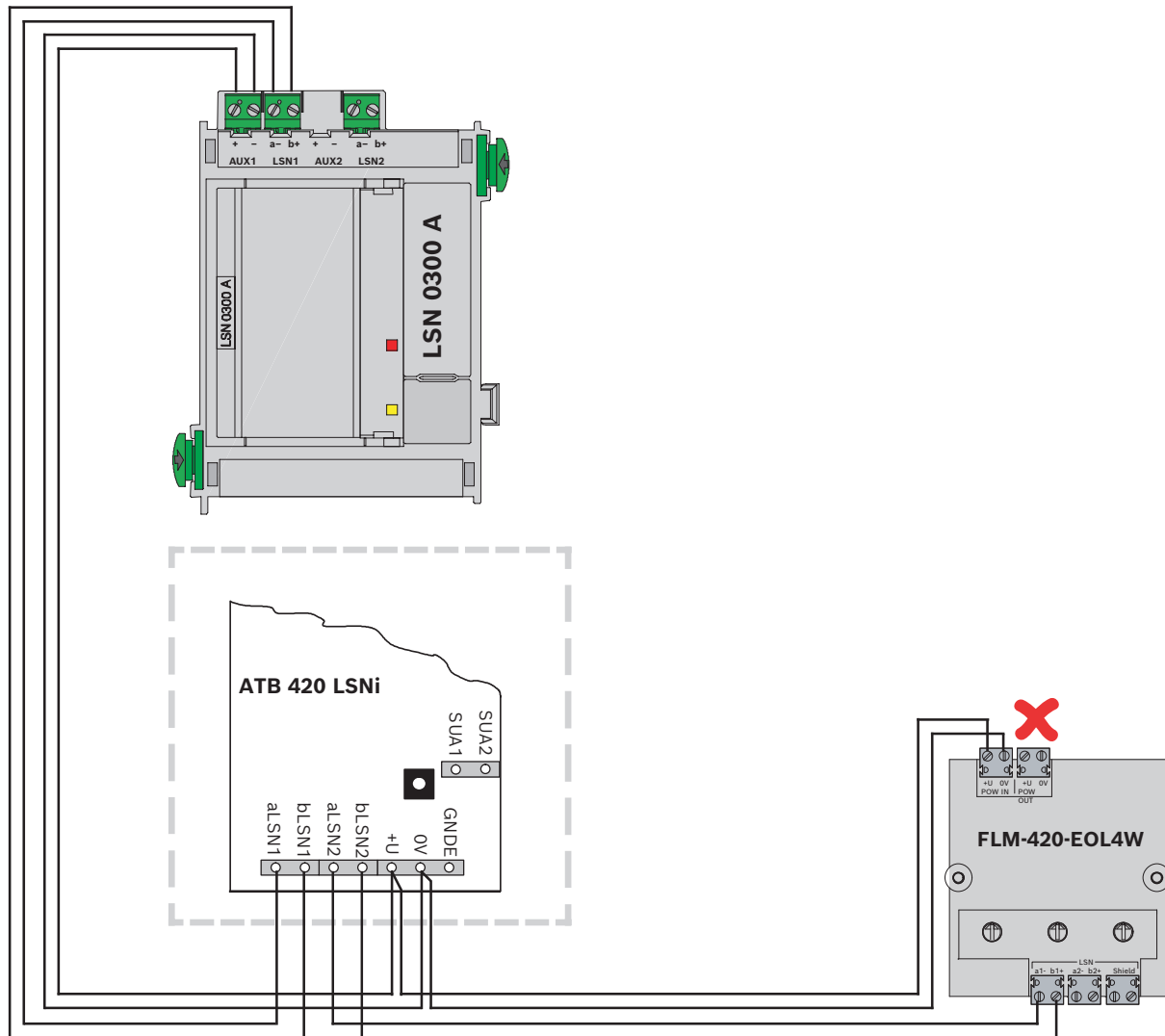


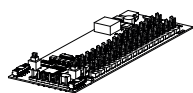


ATB 420 LSNi

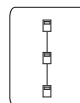


ELS

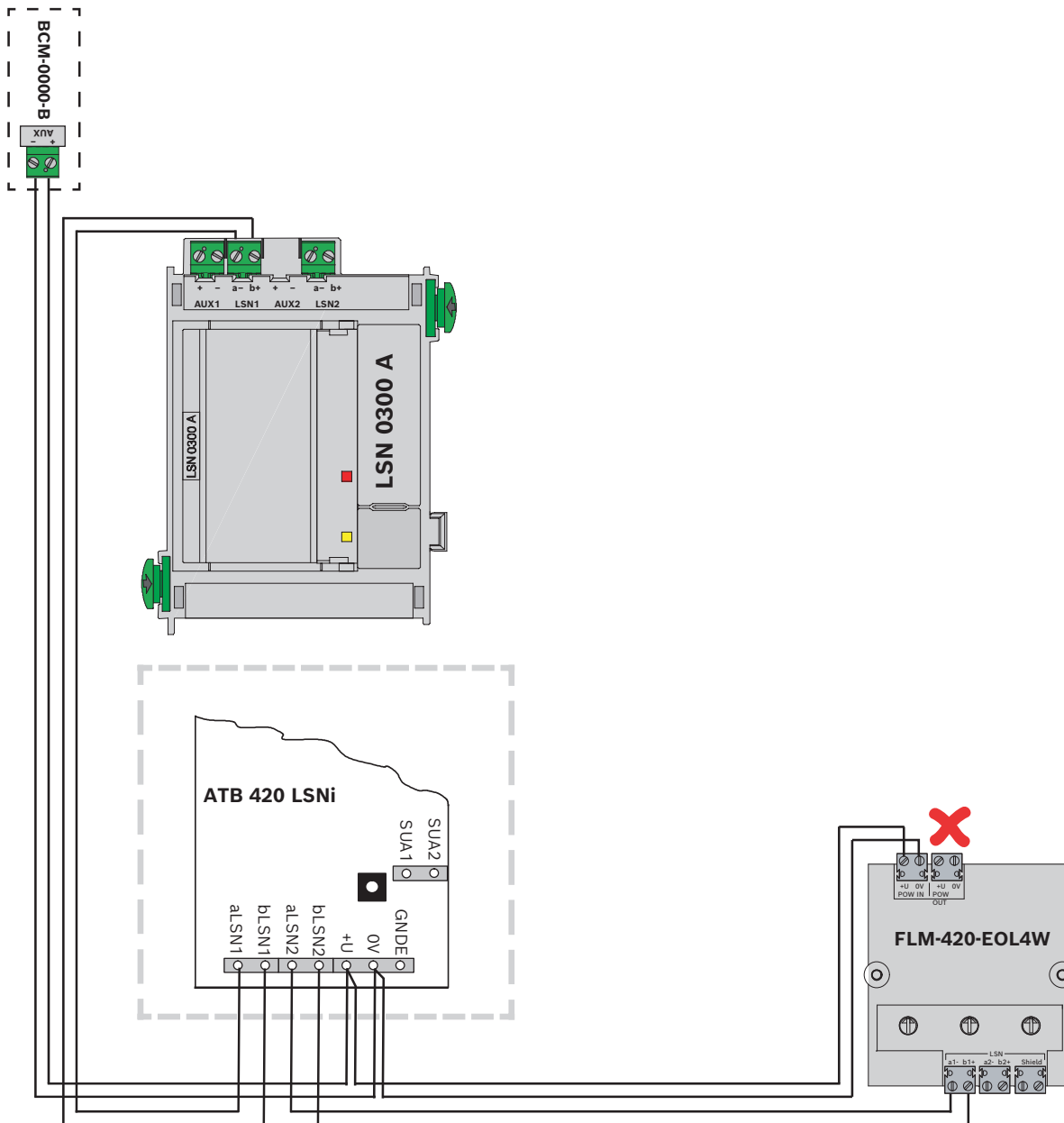




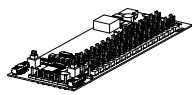
ATB 420 LSNi



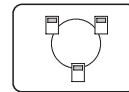
ELS



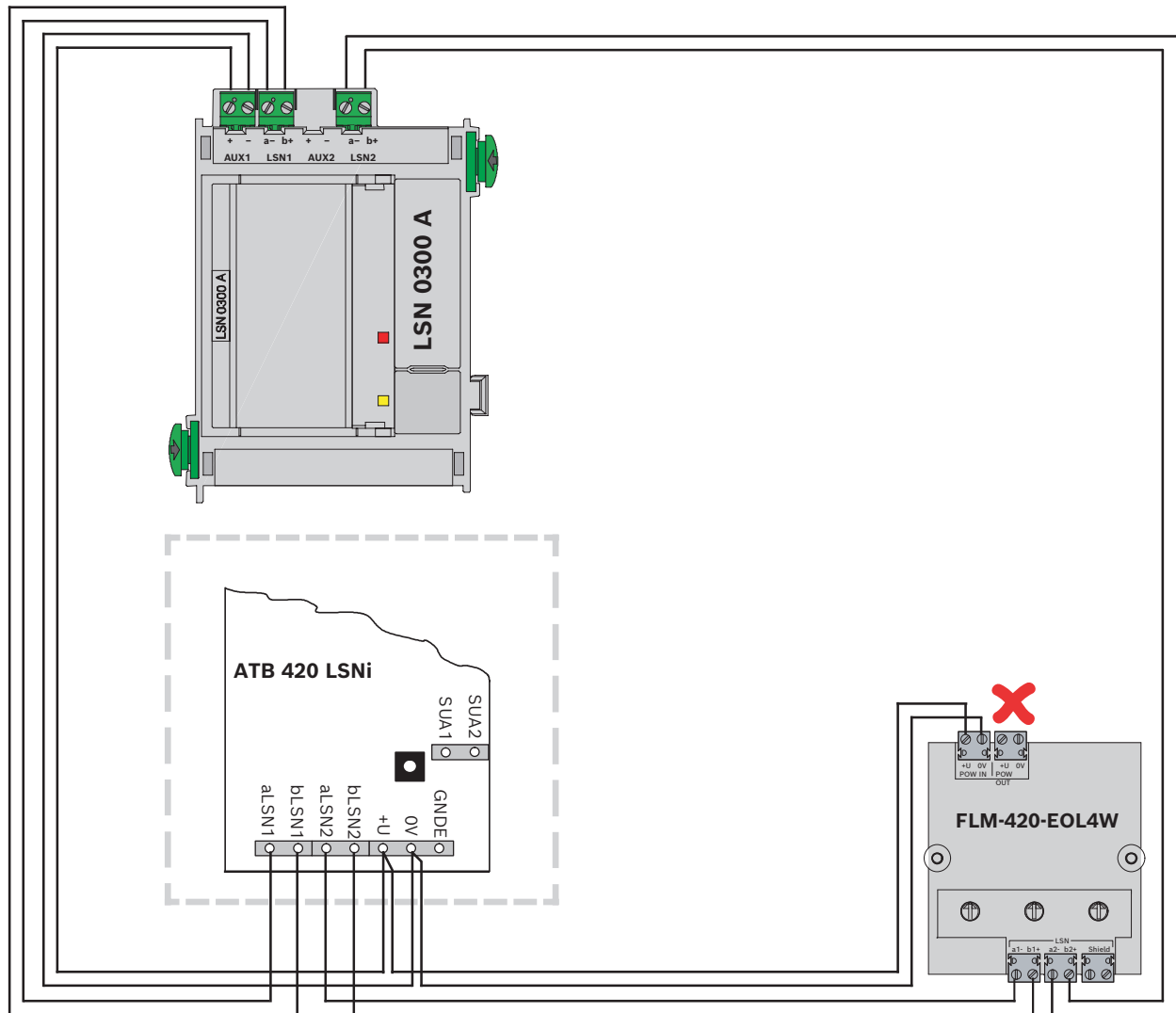


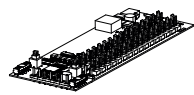


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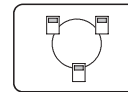


ELS

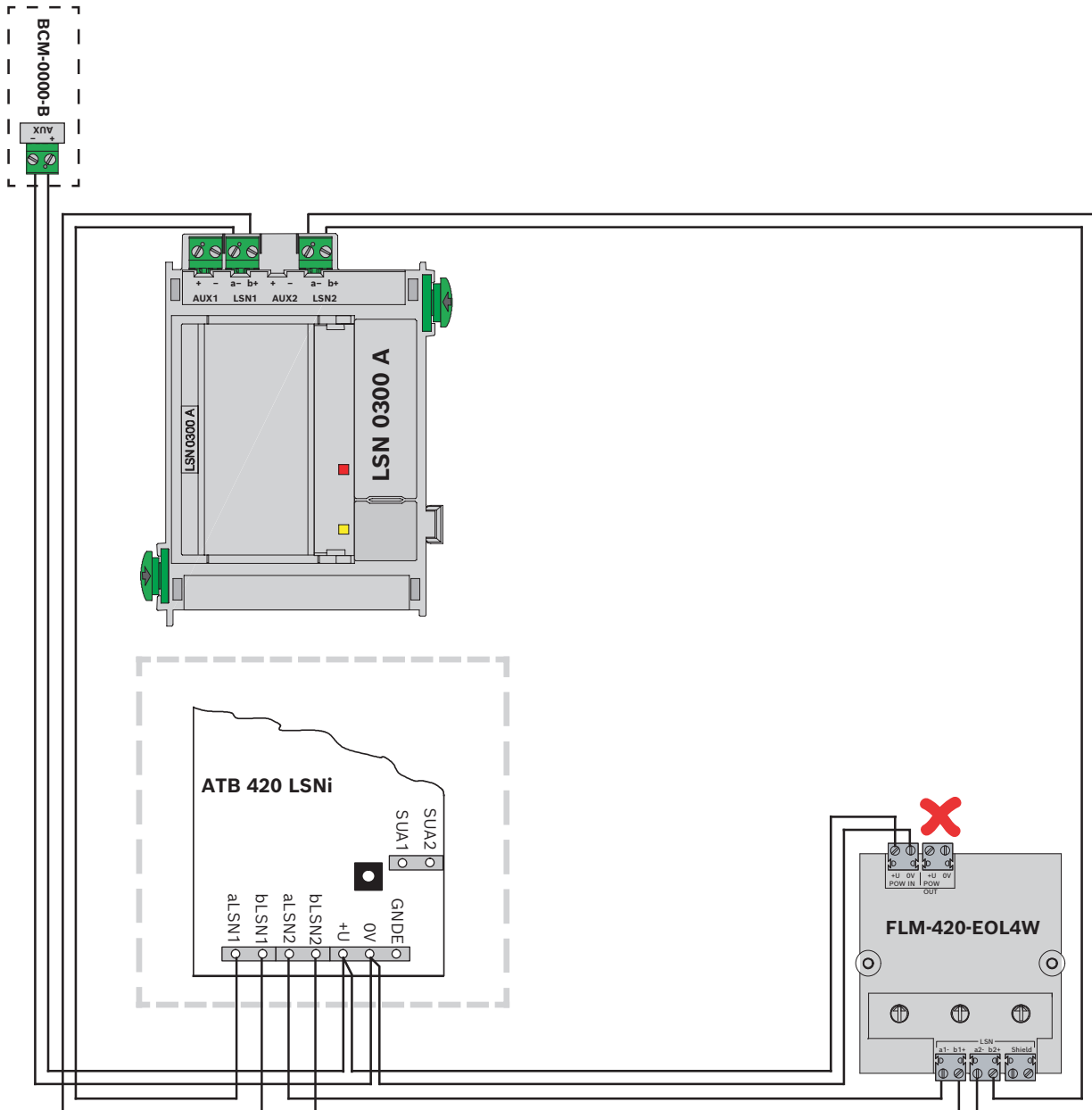




ATB 420 LSNi

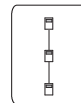


ELS

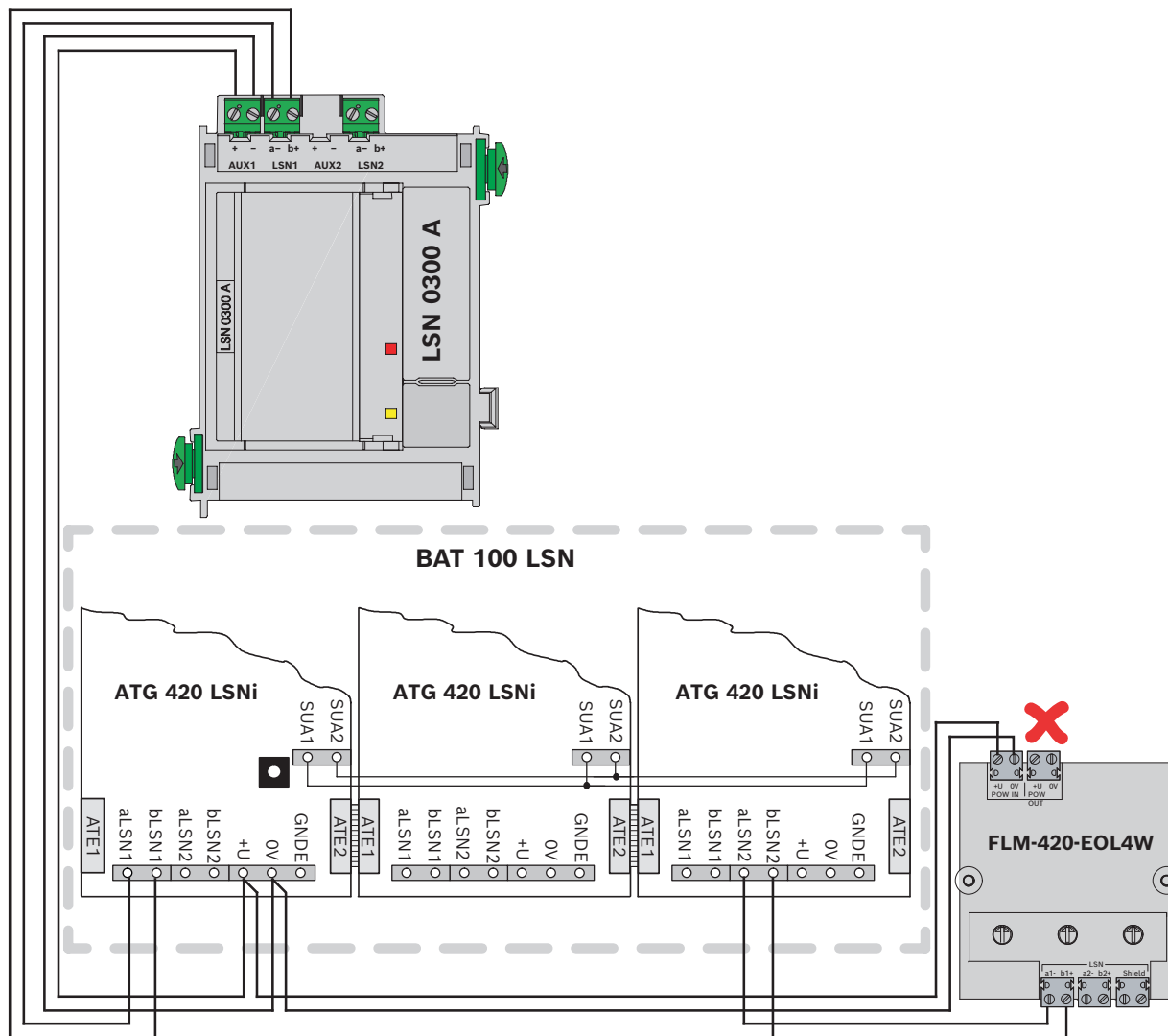




**BAT 100 LSN  
ATG 420 LSNi**

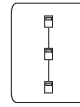


**ELS**

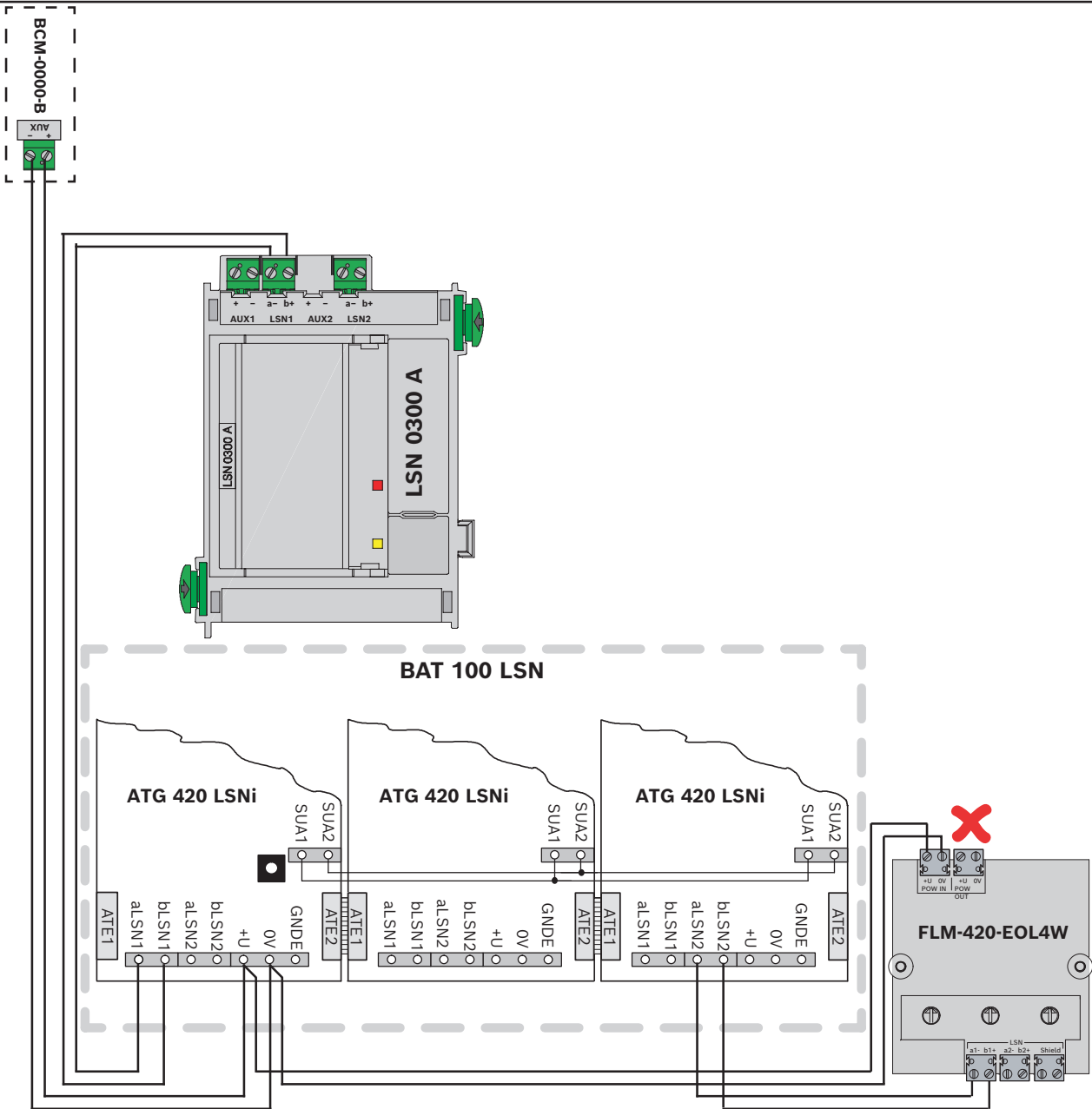




**BAT 100 LSN**  
**ATG 420 LSNi**

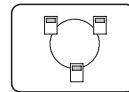


**ELS**

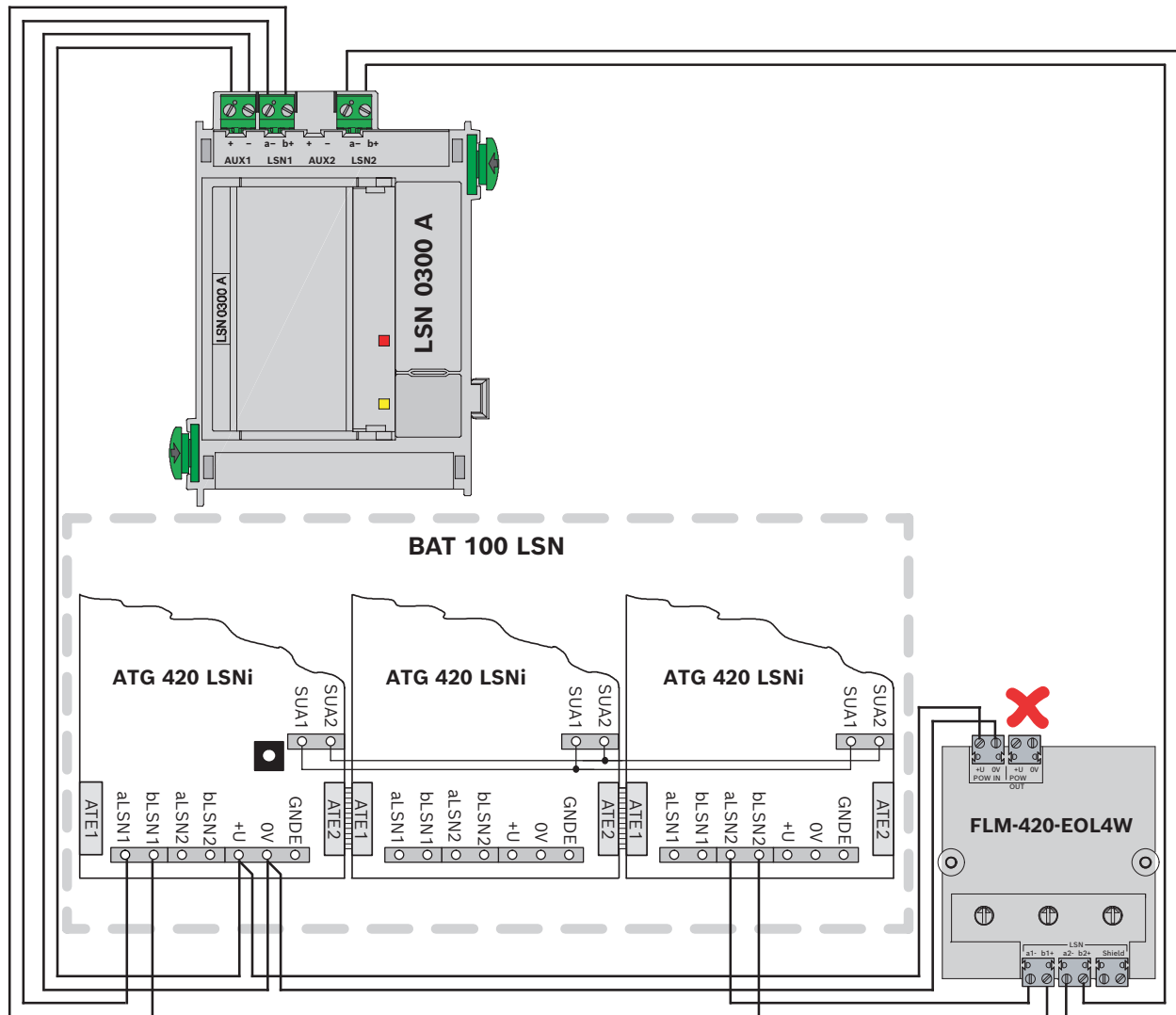




**BAT 100 LSN  
ATG 420 LSNi**

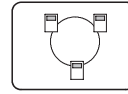


**ELS**

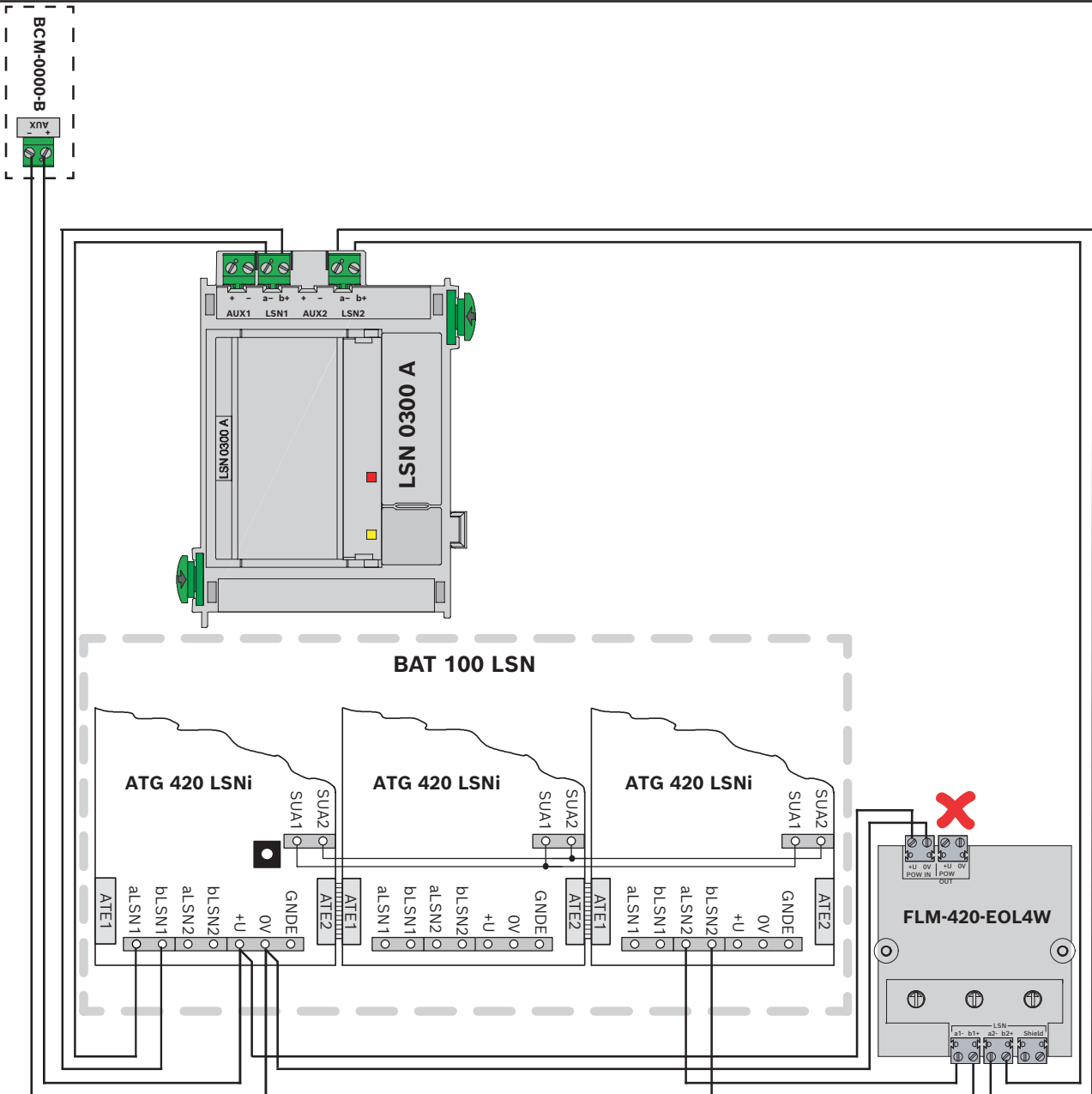




**BAT 100 LSN**  
**ATG 420 LSNi**



**ELS**

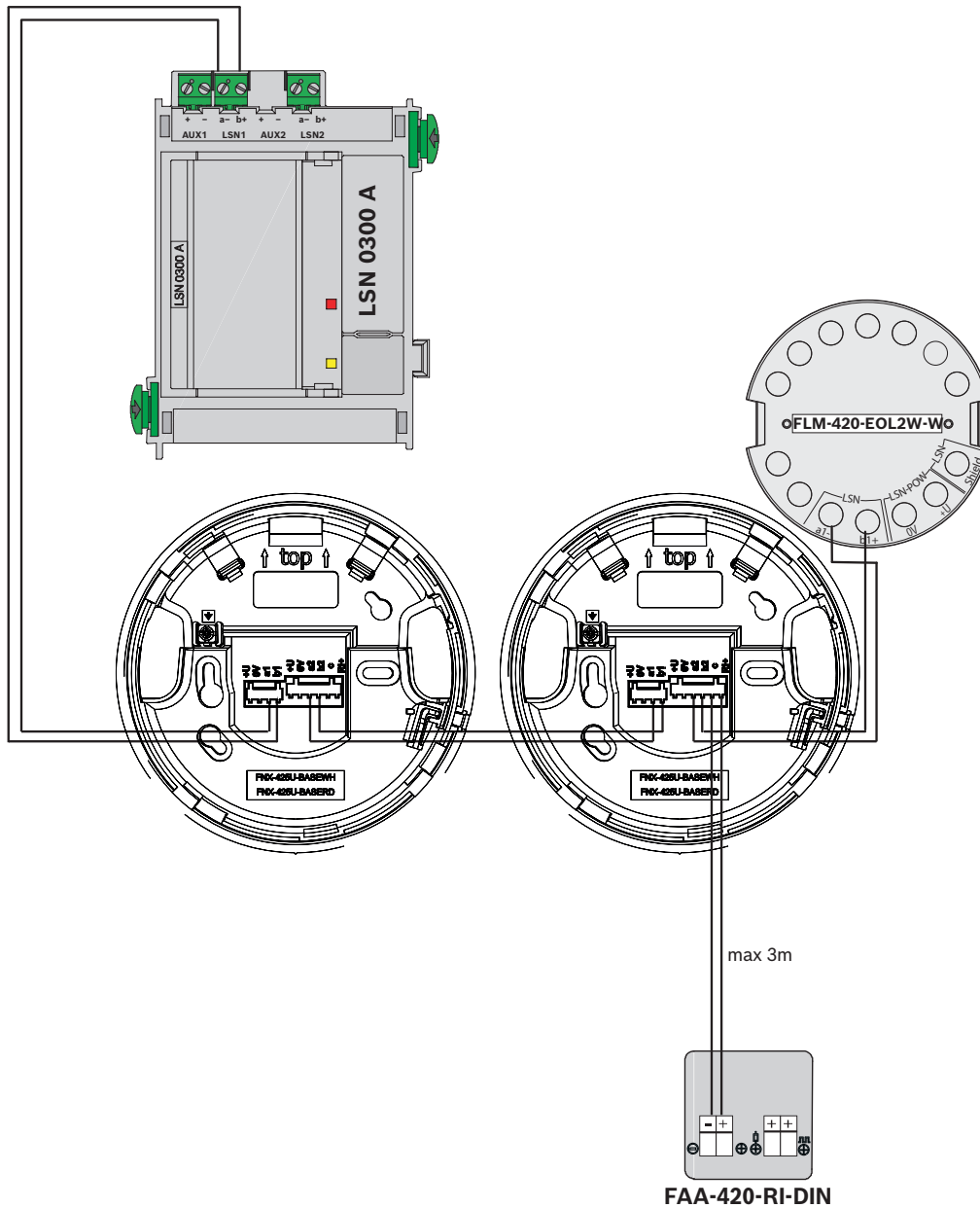




**FNX-425U-WFWH**  
**FNX-425U-RFWH**  
**FNX-425U-WFRD**  
**FNX-425U-RFRD**



**ELS**





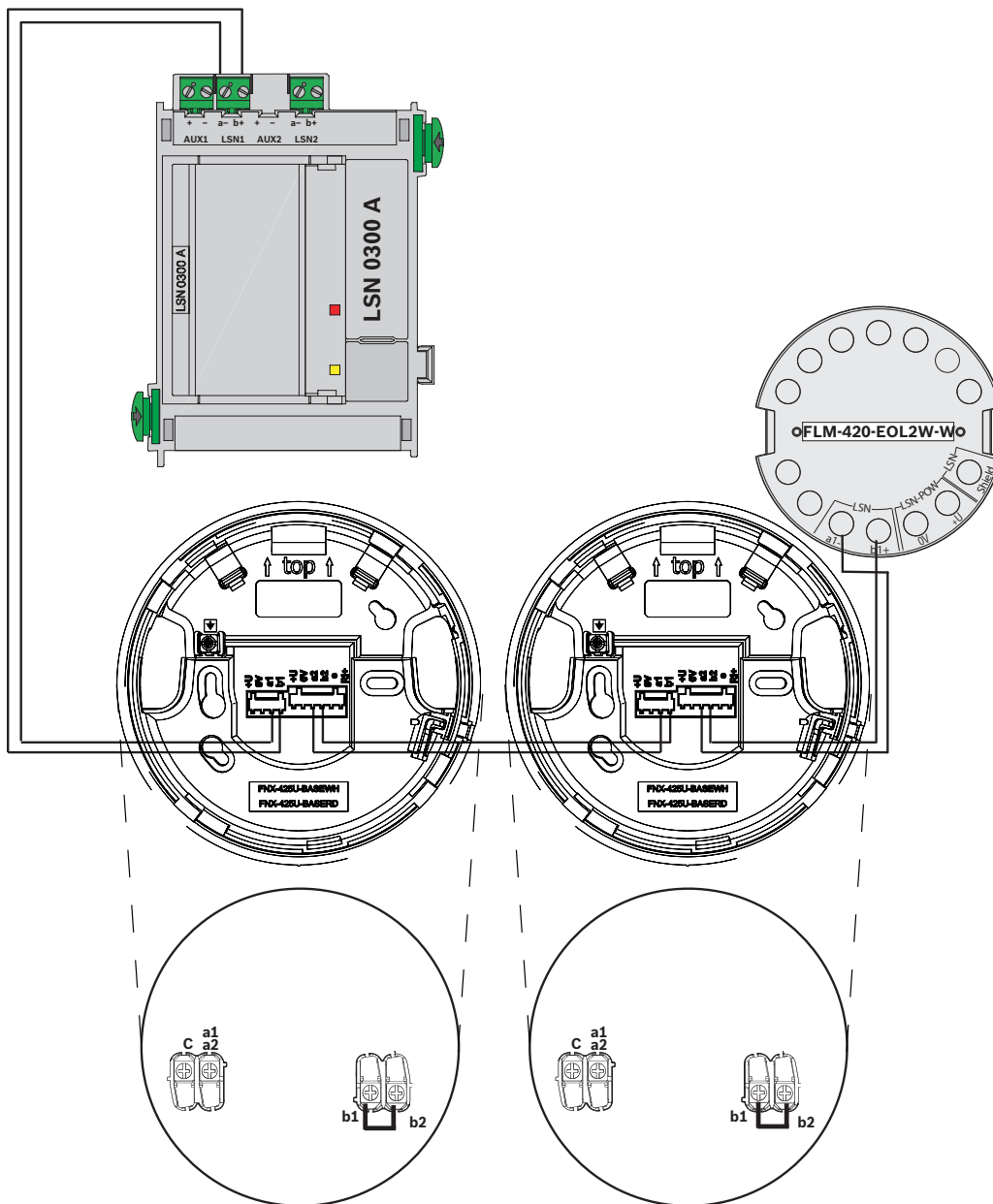
FNX-425U-WFWH  
 FNX-425U-RFWH  
 FNX-425U-WFRD  
 FNX-425U-RFRD

+

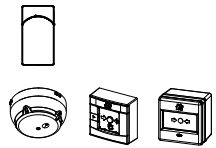
FNX-425U-COVWH  
 FNX-425U-COVRD



ELS

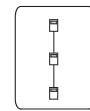




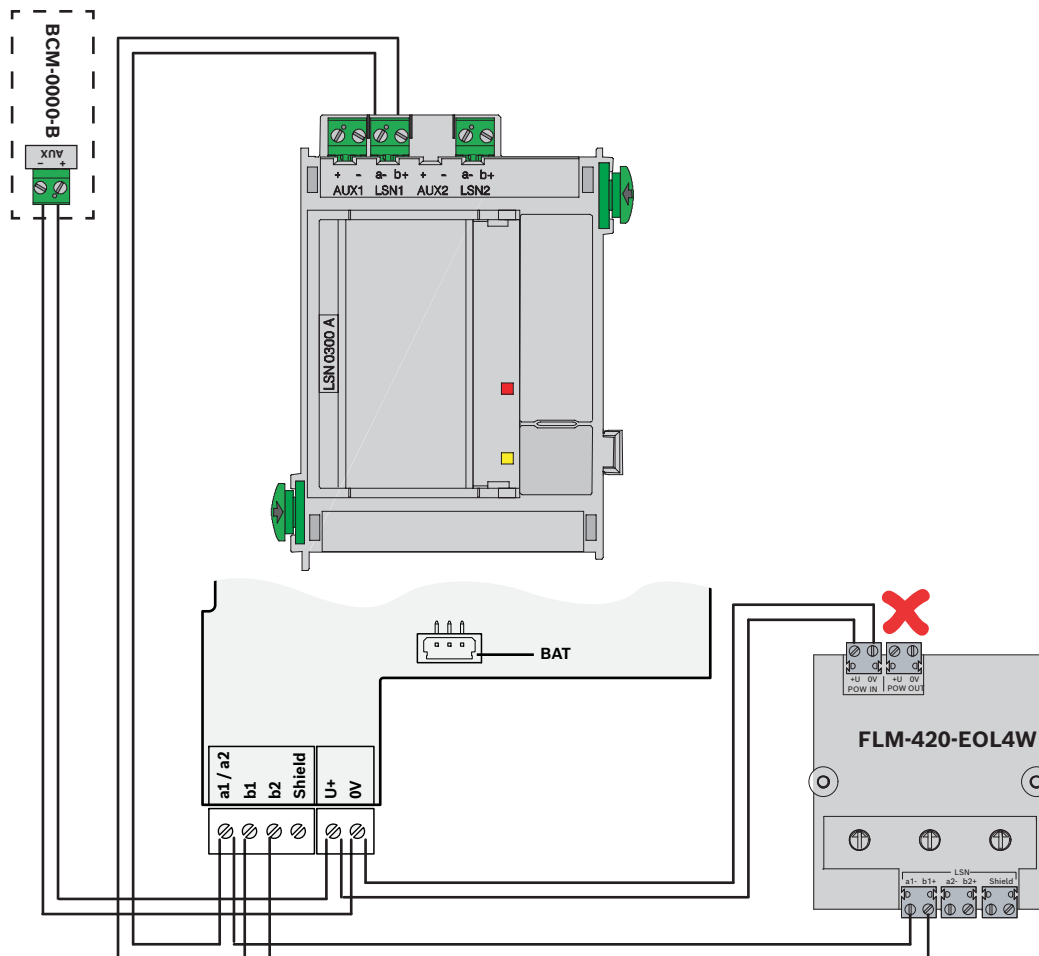


**FWI-270**

**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**



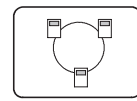
**ELS**



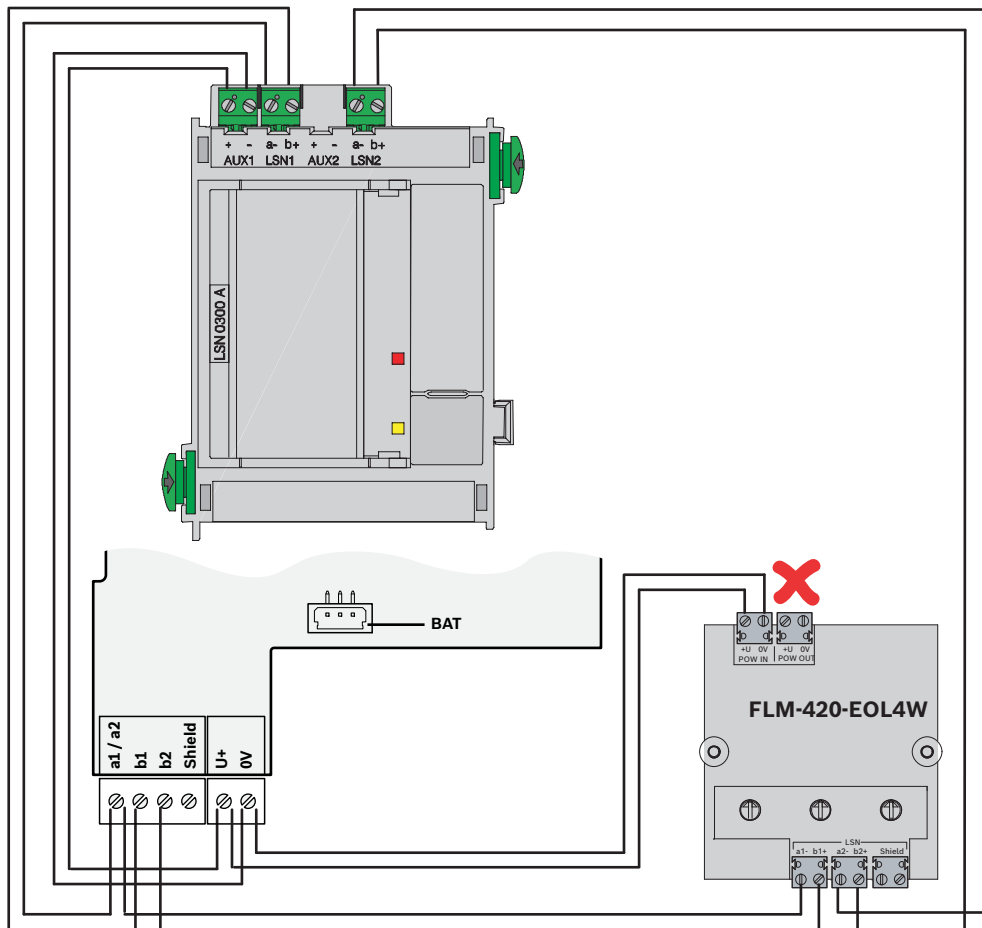


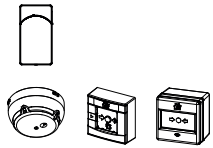
**FWI-270**

**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**



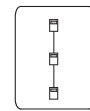
**ELS**



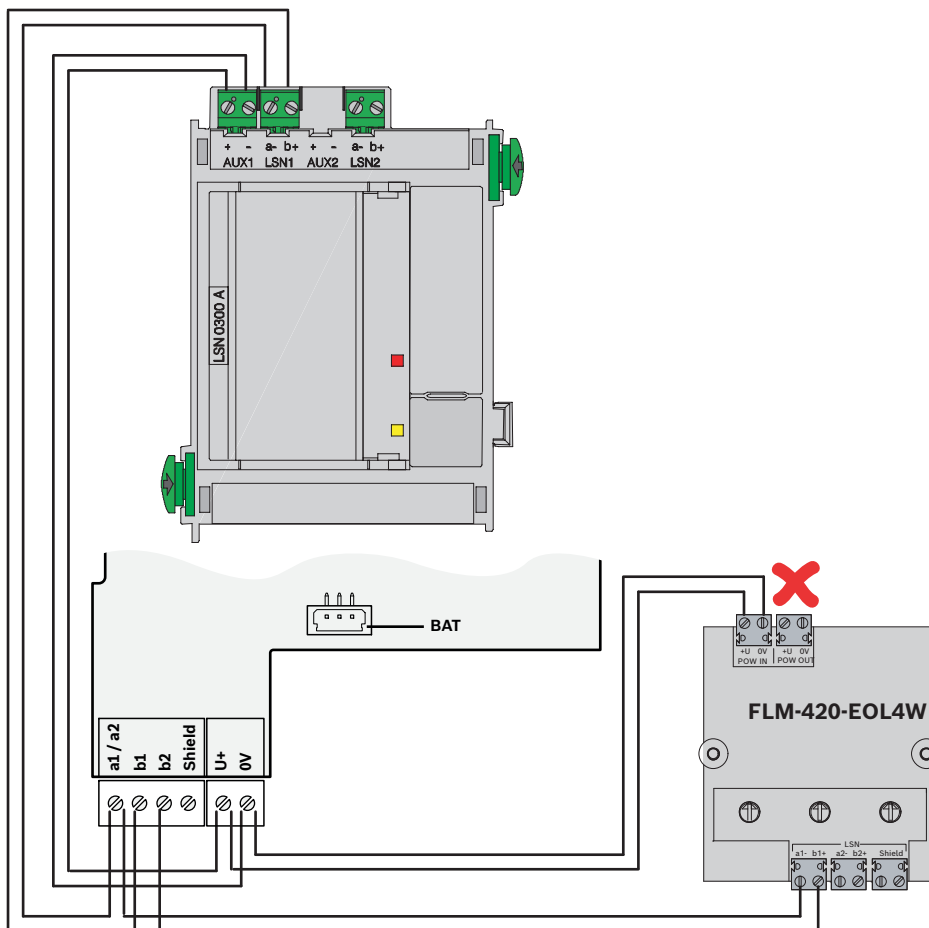


**FWI-270**

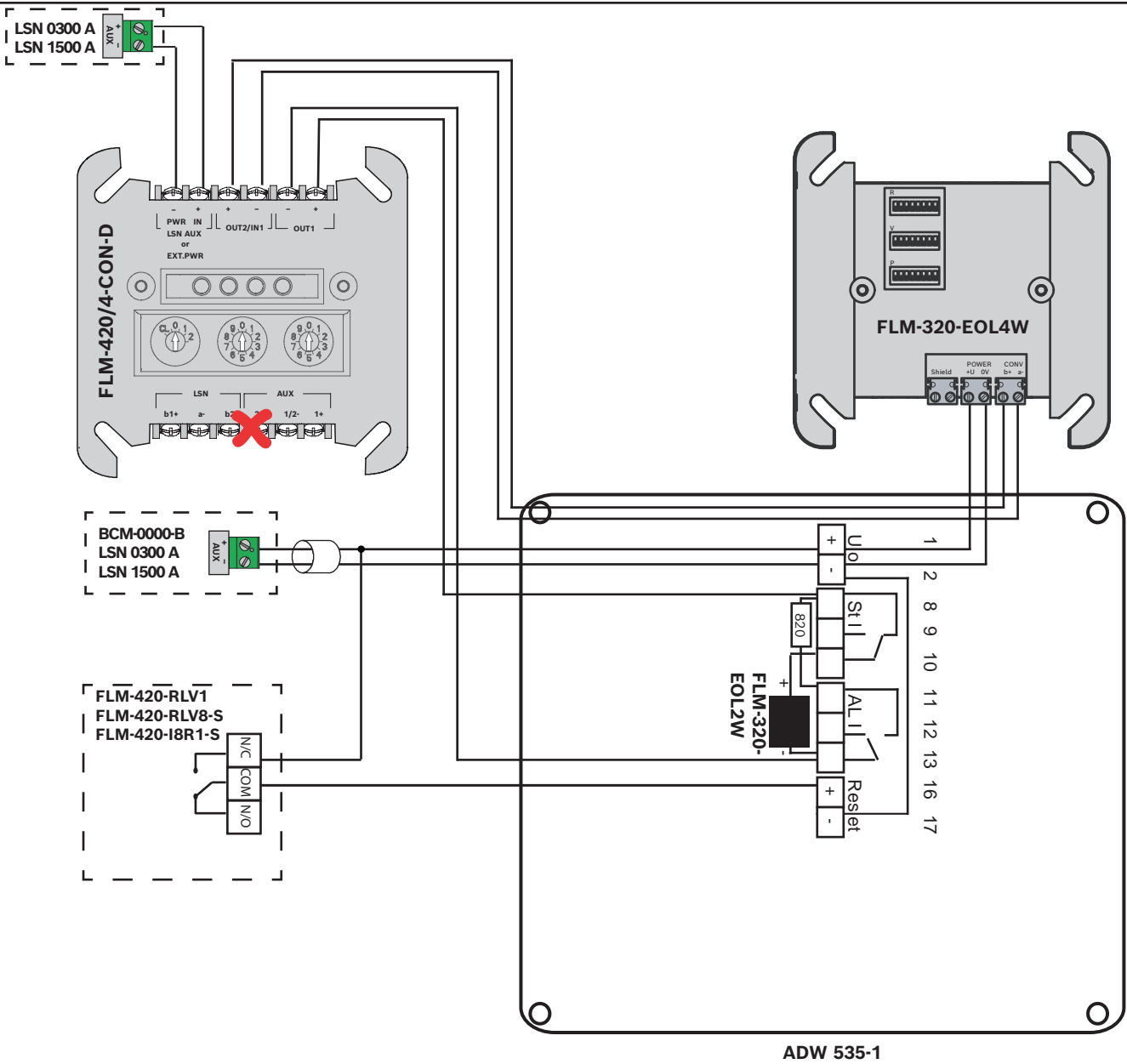
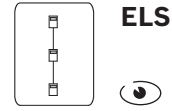
**FDOOT271-O**  
**FDM275-O**  
**FDM273-O**

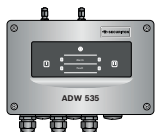


**ELS**

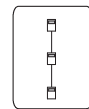


### 2.6.3 FLM-420/4-CON-S/D

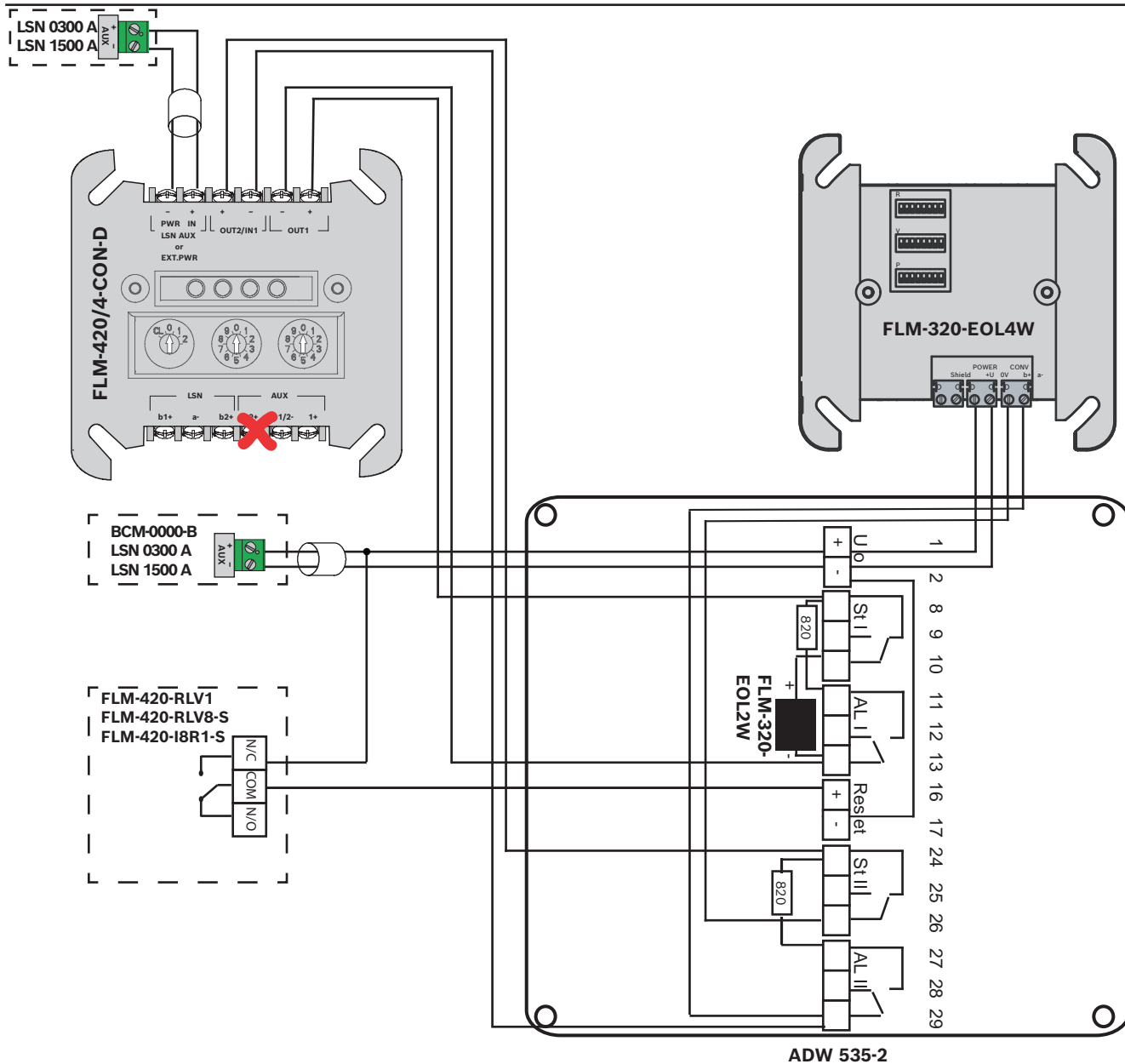


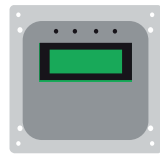


ADW 535-2



ELS

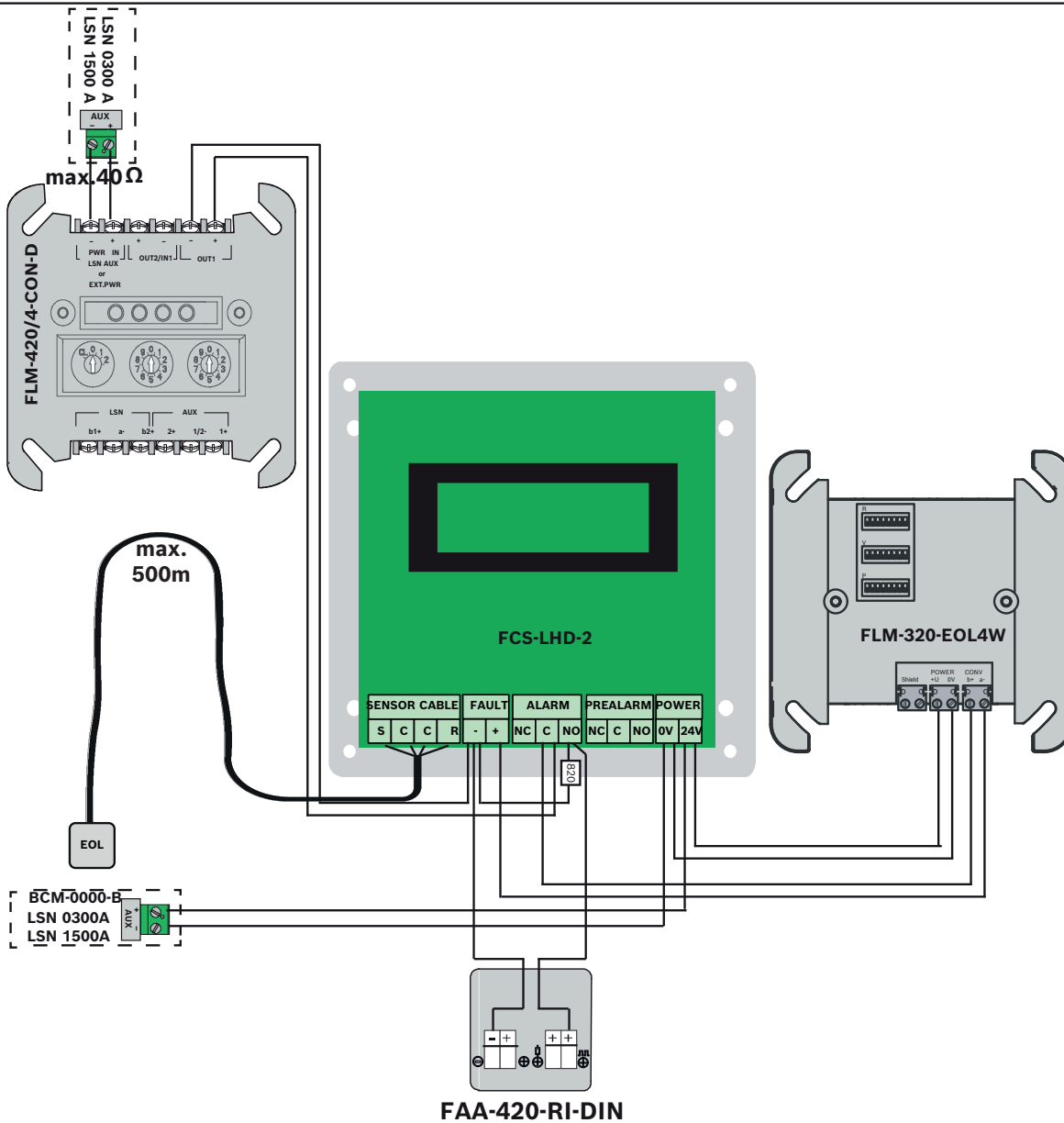




ALARMLINE II

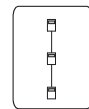


ELS

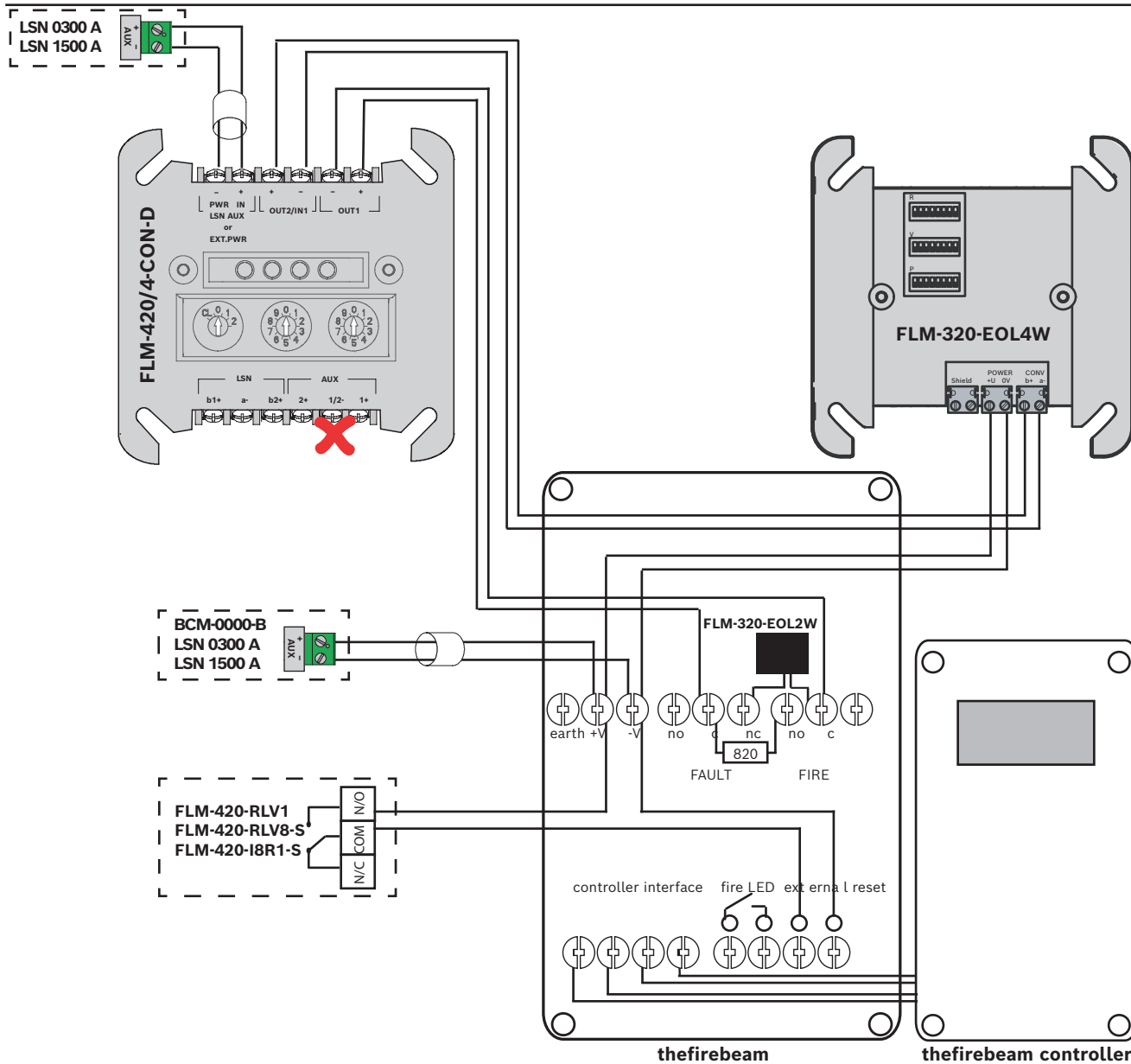


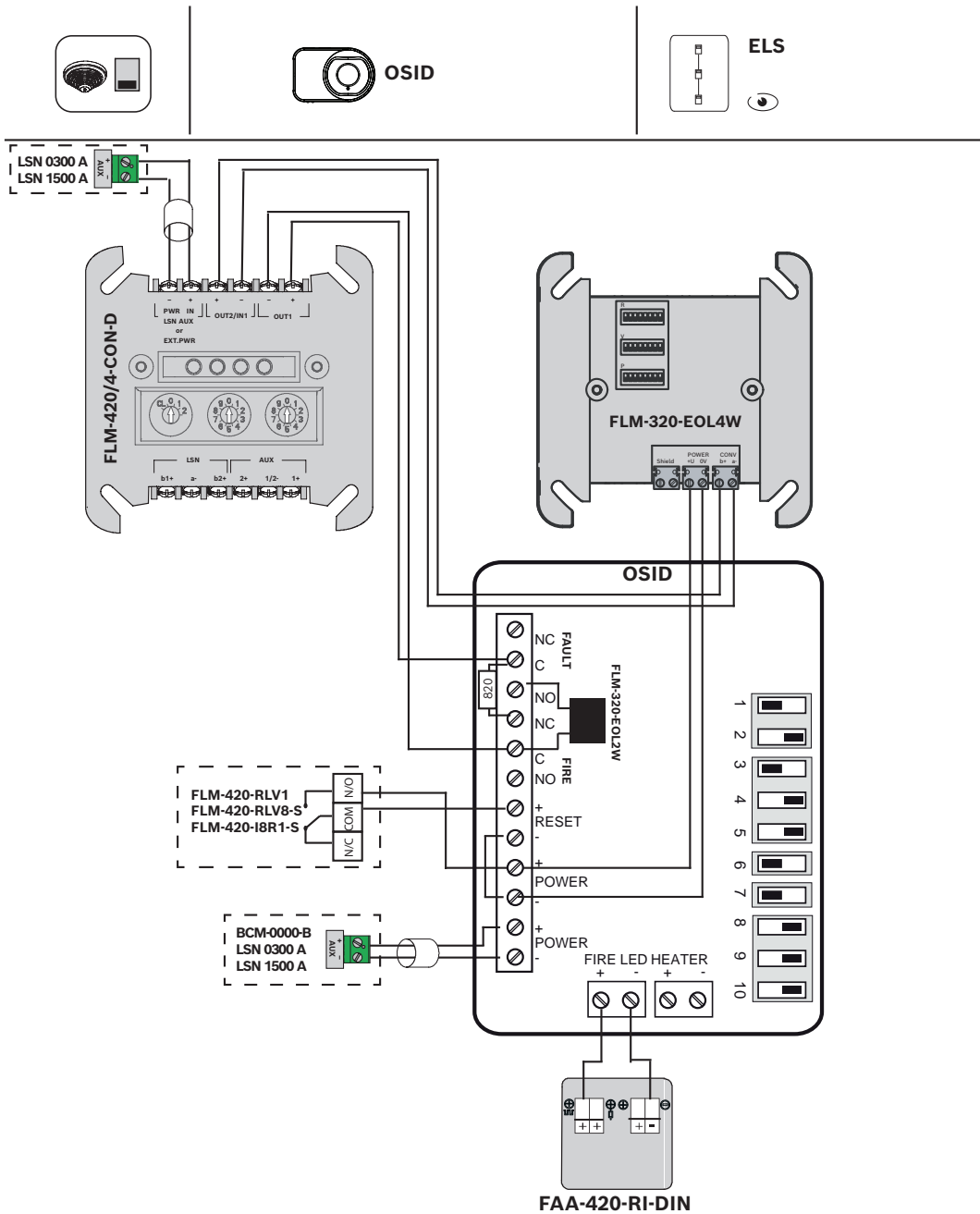


thefirebeam nano  
thefirebeam standard  
thefirebeam foveo

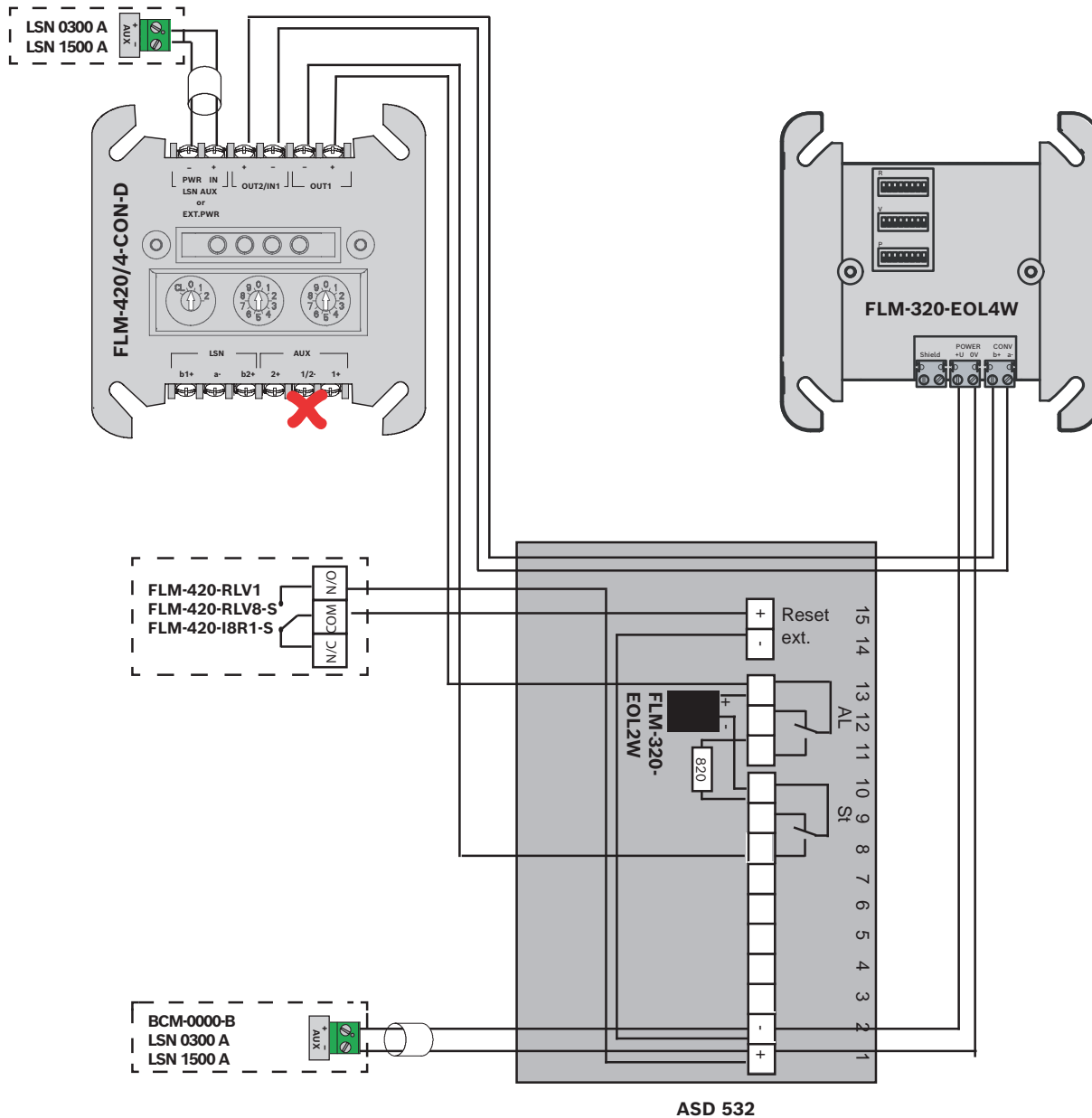
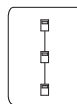


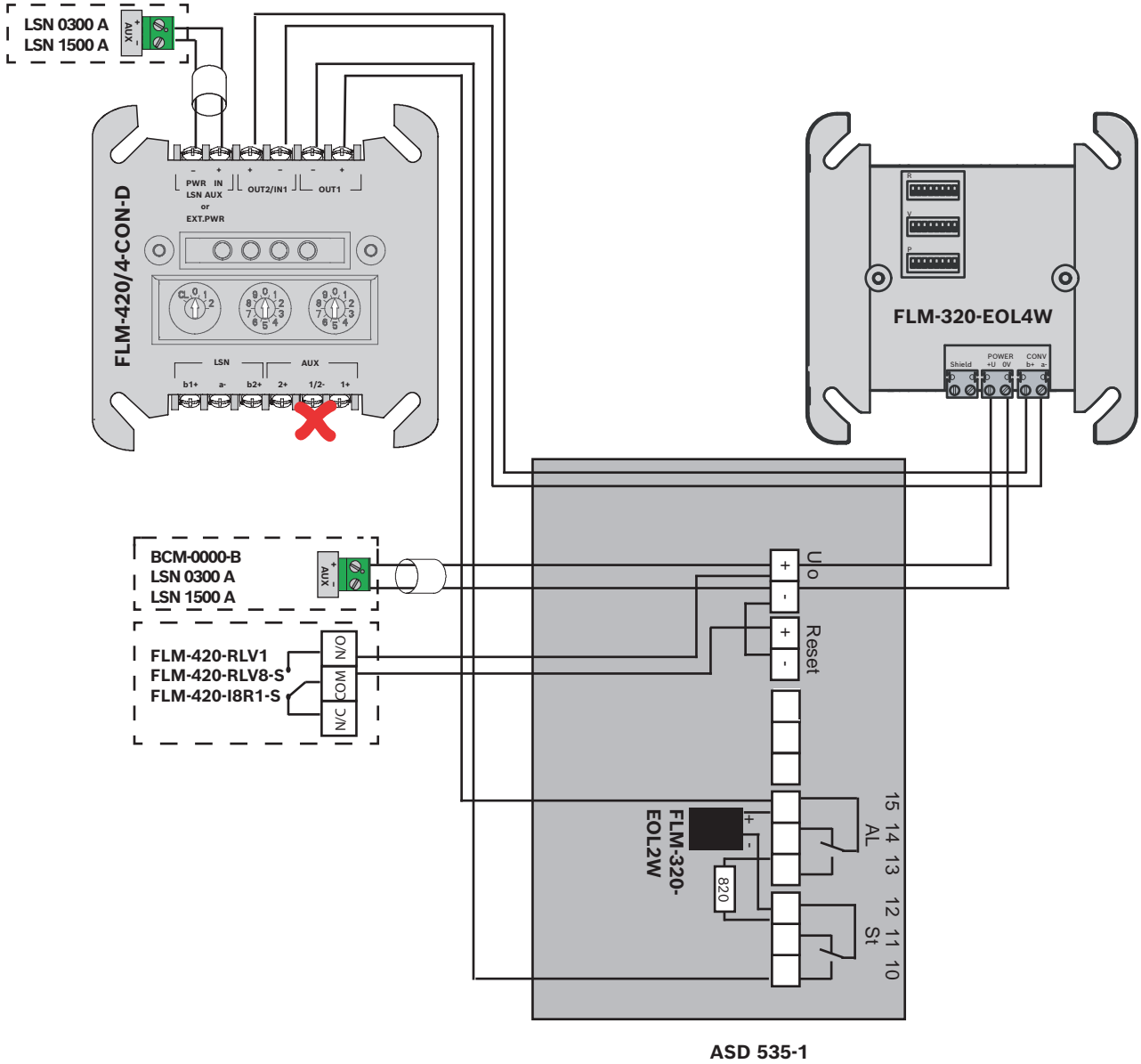
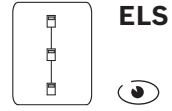
ELS

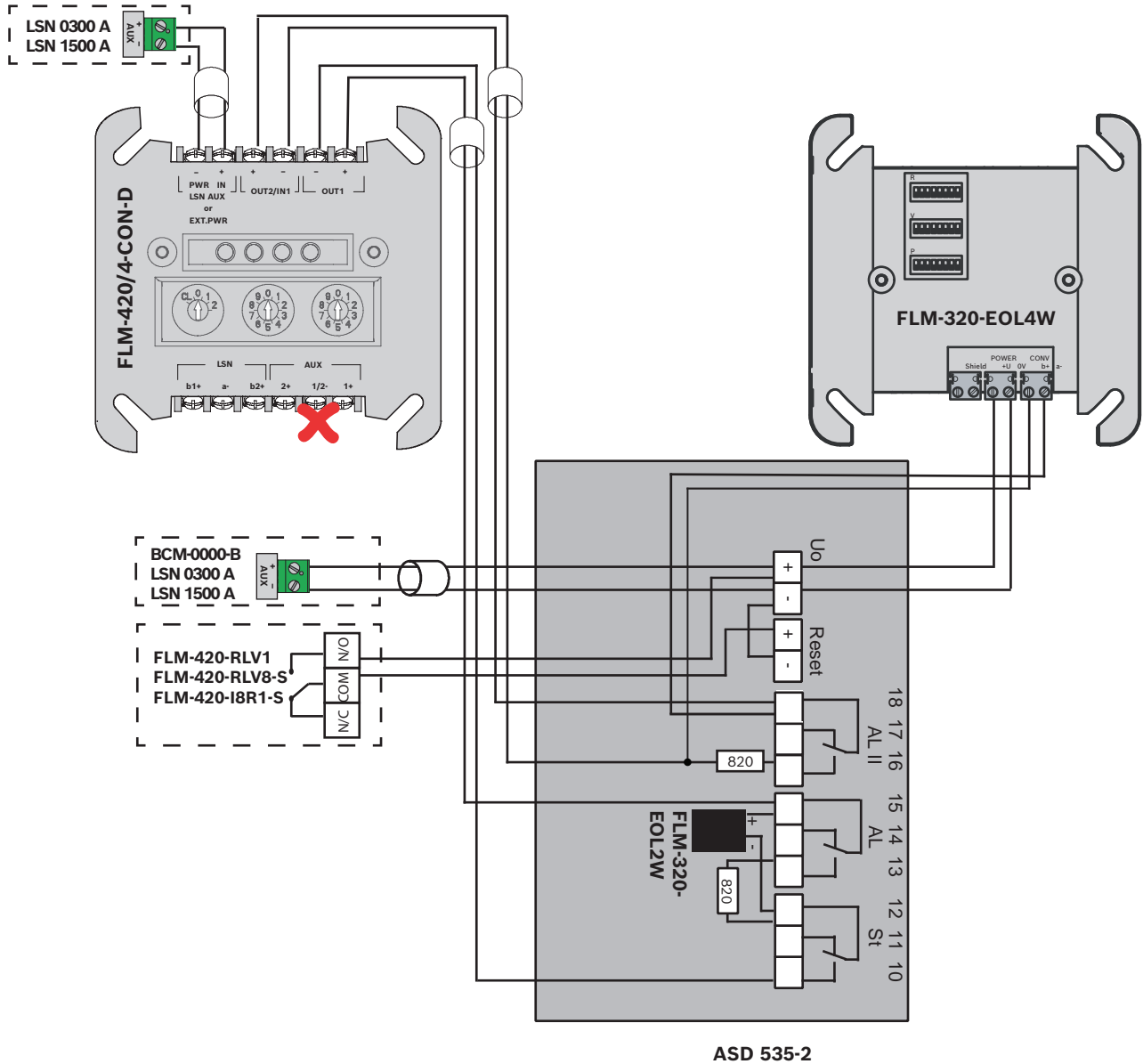
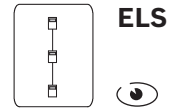


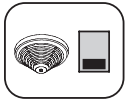




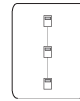






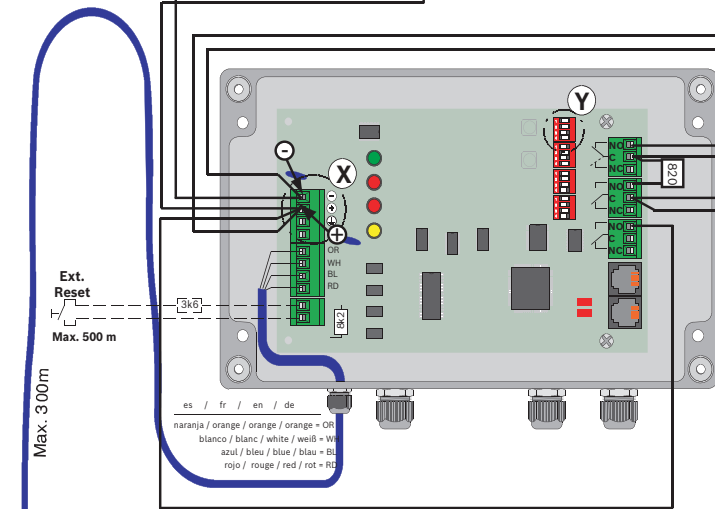
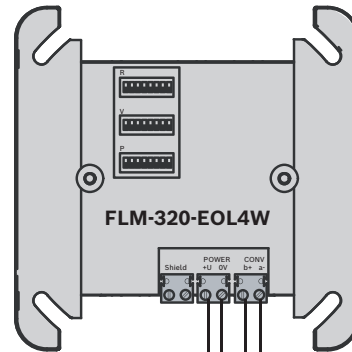
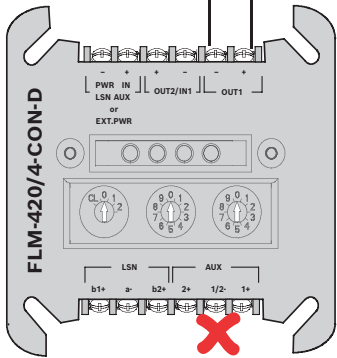


FCS-LWM-1



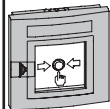
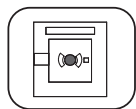
ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A

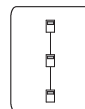


es / fr / en / de  
naranja / orange / orange / orange = OR  
blanco / blanc / white / weiß = WH  
azul / bleu / blue / blau = BL  
rojo / rouge / red / rot = RE

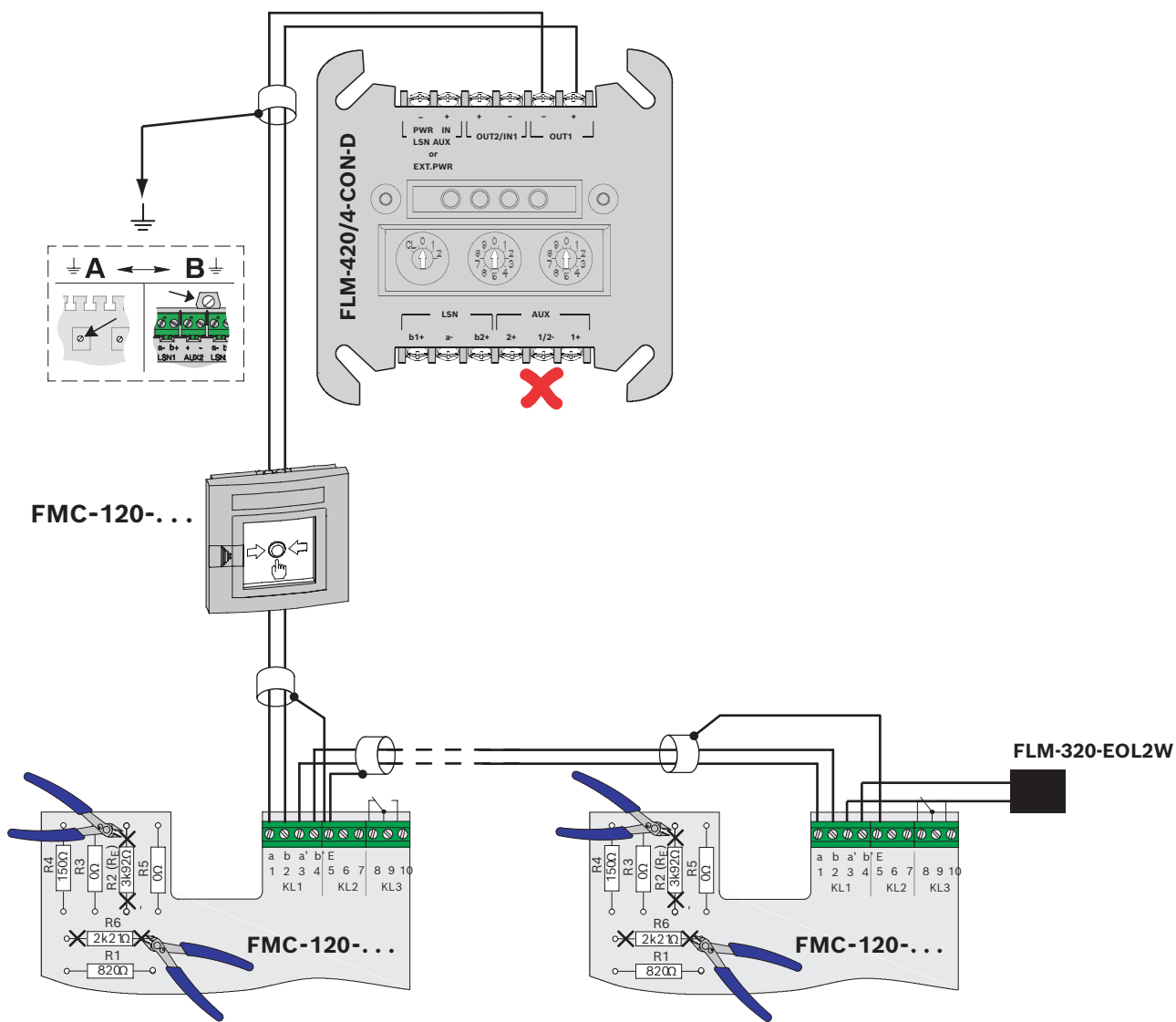


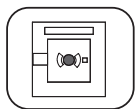


FMC-120-DKM-G-R FMC-120-DKM-G-Y  
 FMC-120-DKM-H-R FMC-120-EST-G-B  
 FMC-120-DKM-G-B  
 FMC-120-DKM-H-B

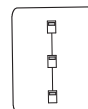


ELS

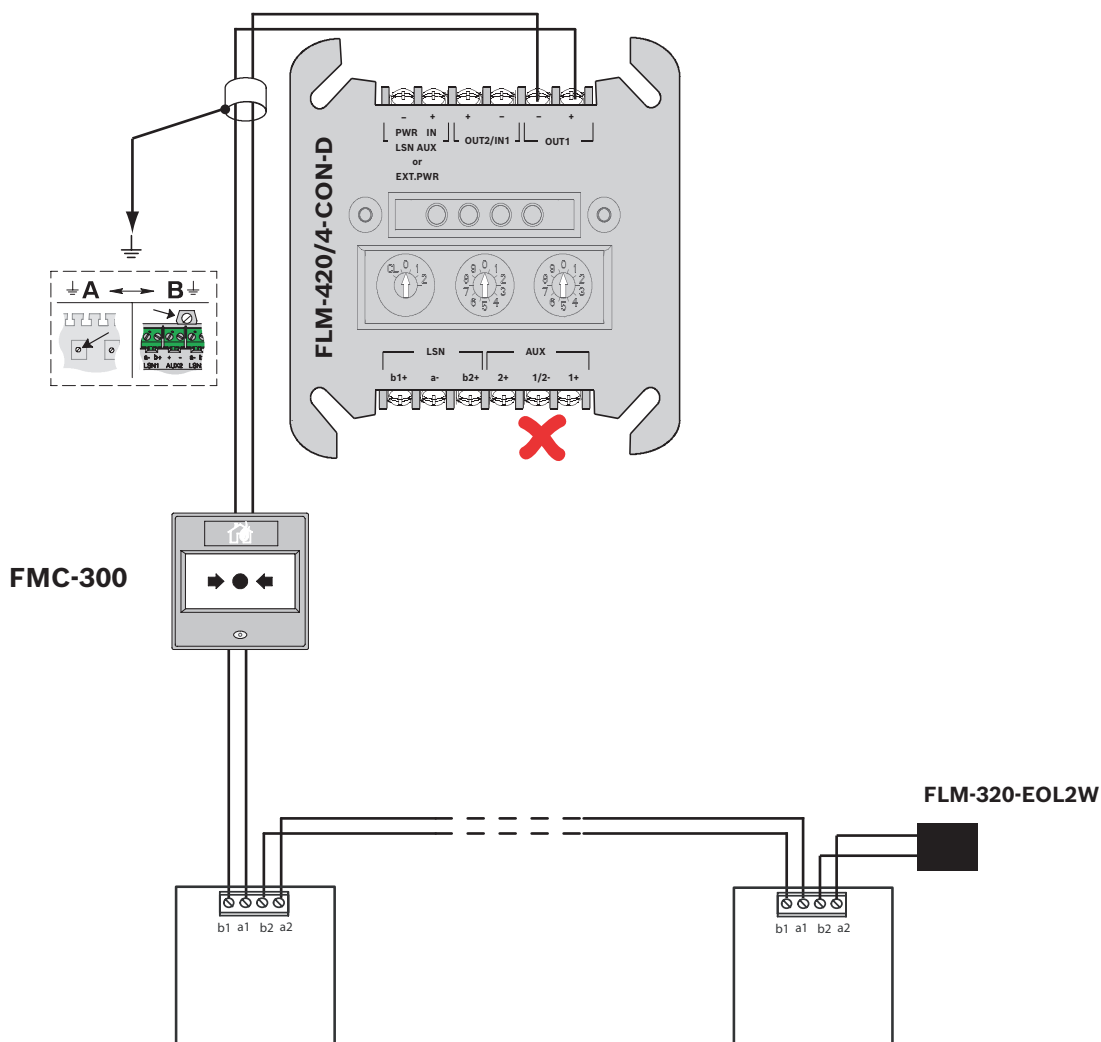


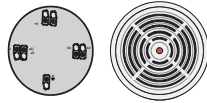


FMC-300



ELS

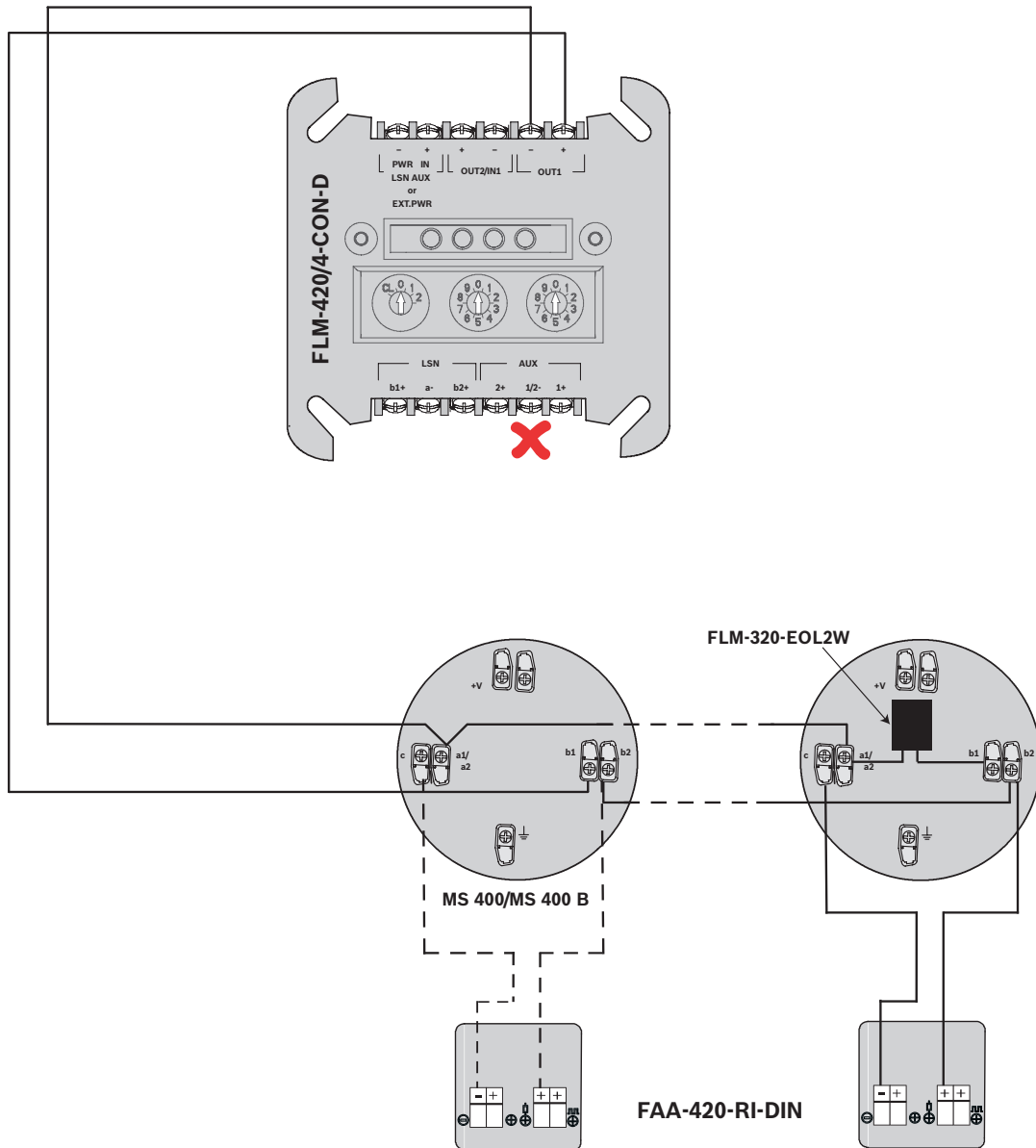




MSS 400, MSS 400 B  
 FCH-320-T320  
 FCH-T320-R470, FCH-T320-FSA  
 FCP-O320, FCP-O320-R470  
 FCP-OC320, FCP-OC320-R470  
 FCP-OT320, FCP-OT320-R470



ELS

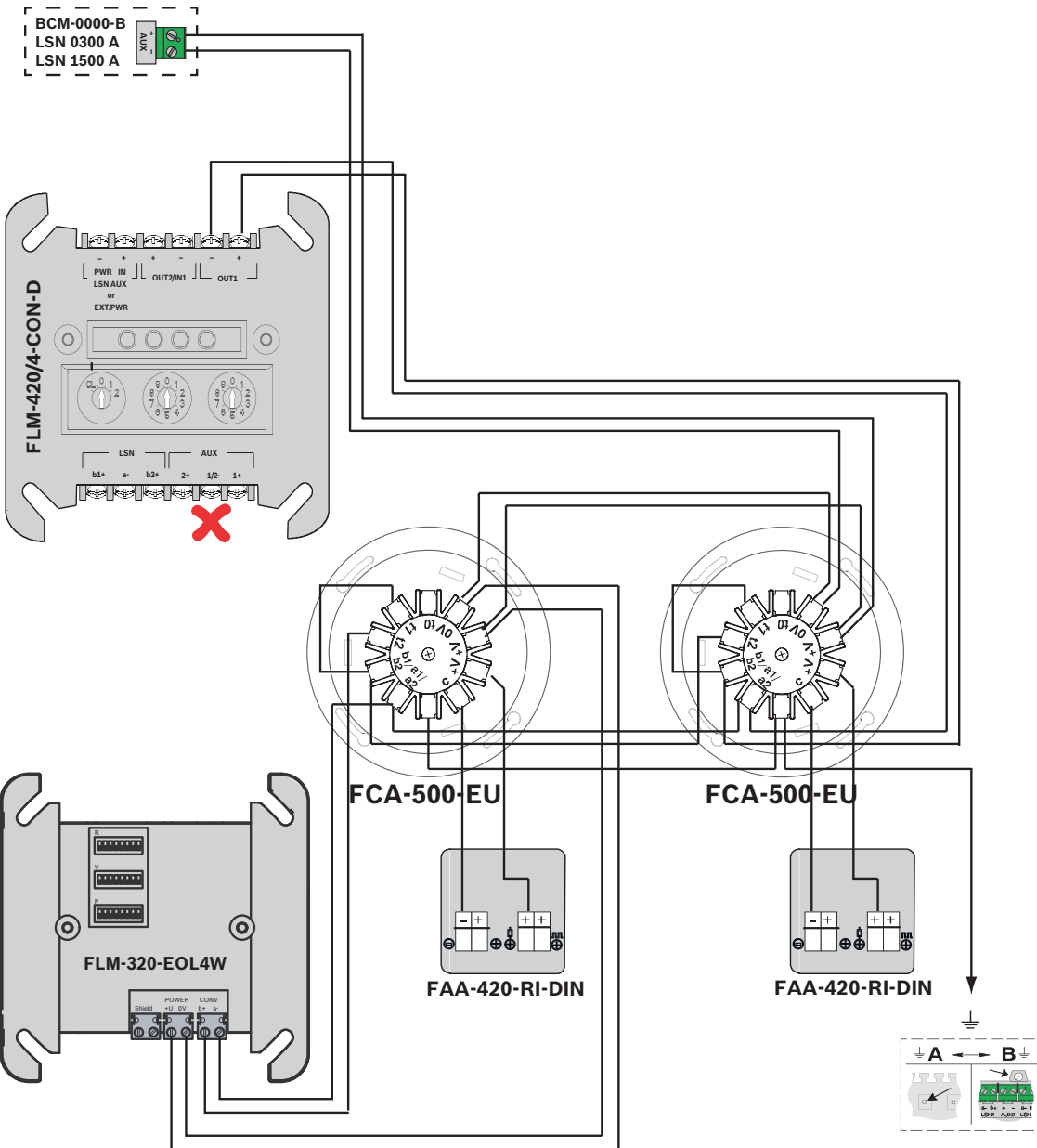




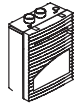
FCP-500



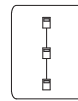
ELS



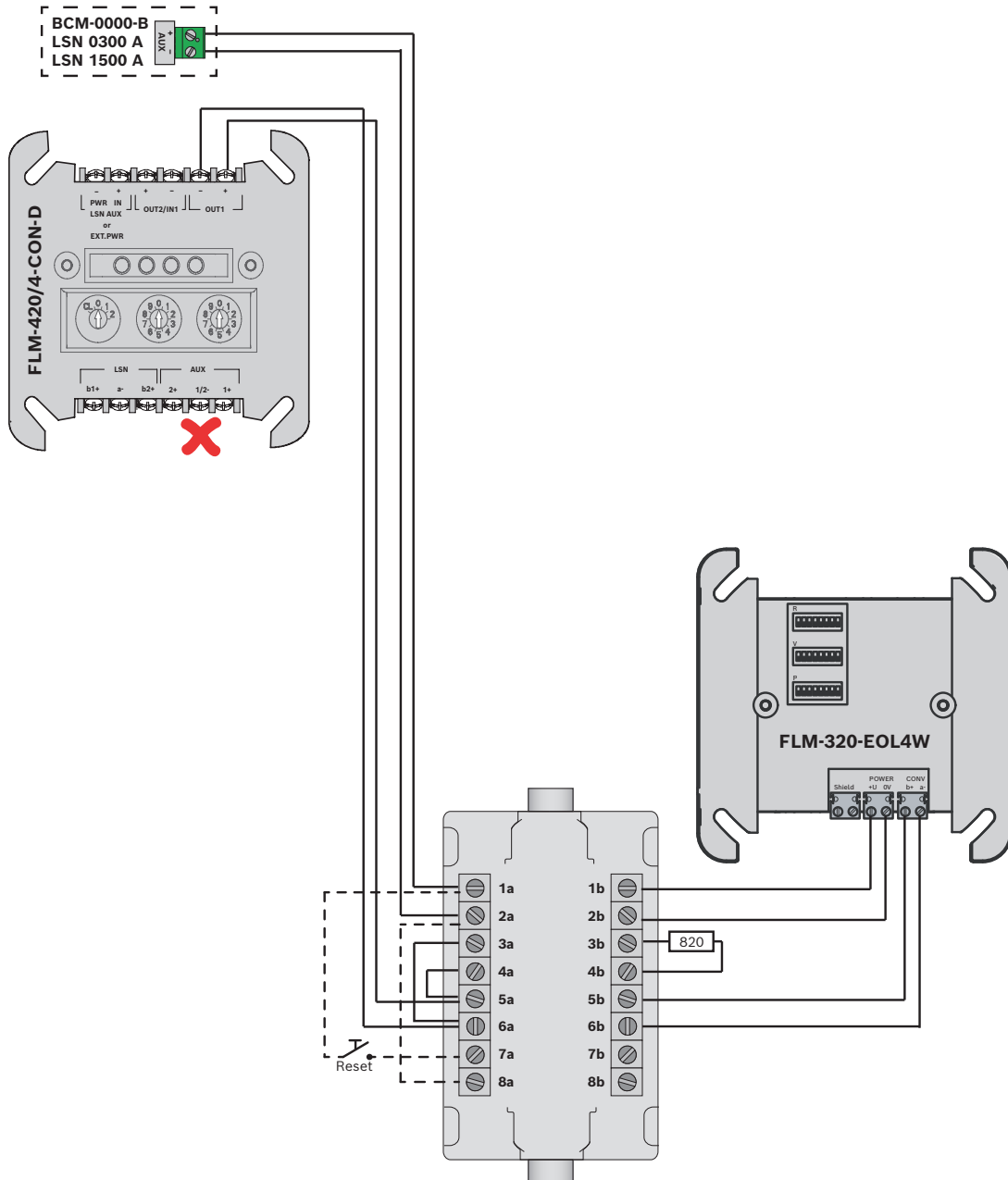


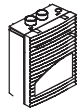


FCS-320-TM Series

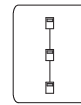


ELS



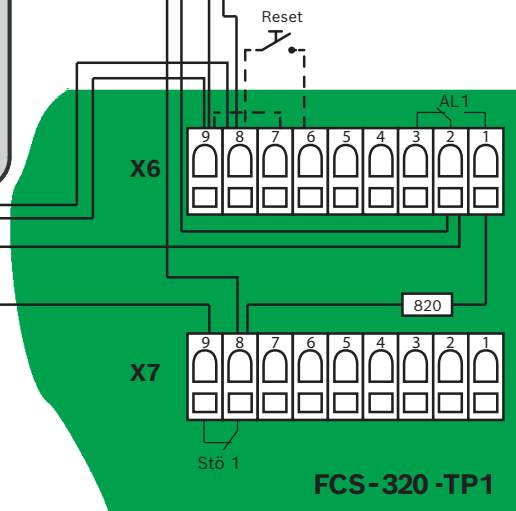
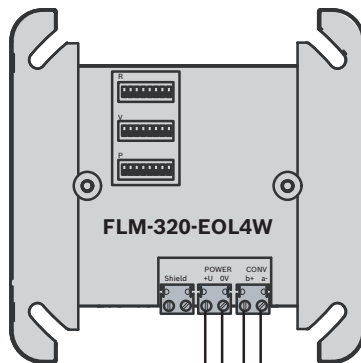
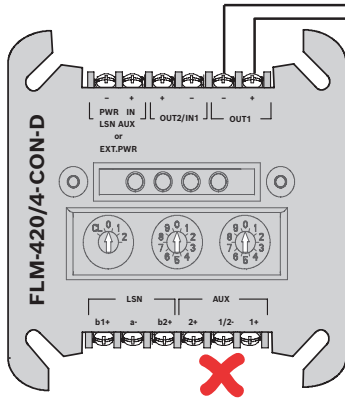


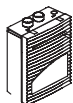
FCS-320-TP Series



ELS

BCM-0000-B  
LSN 0300 A  
LSN 1500 A



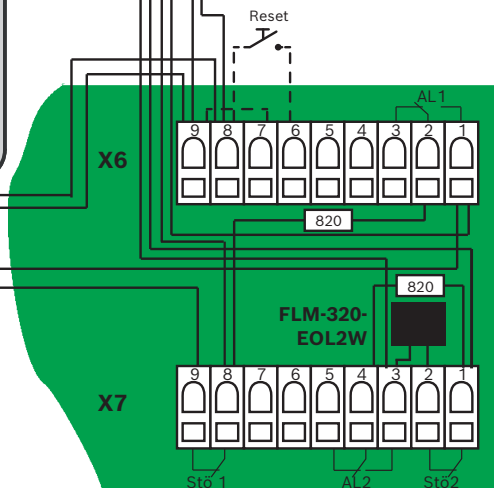
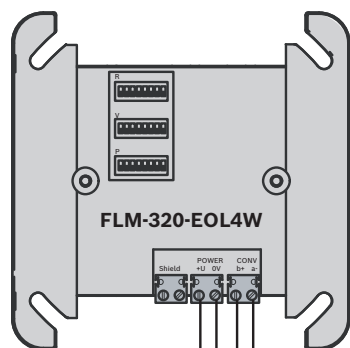
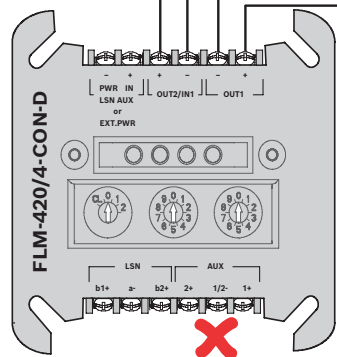


FCS-320-TP Series

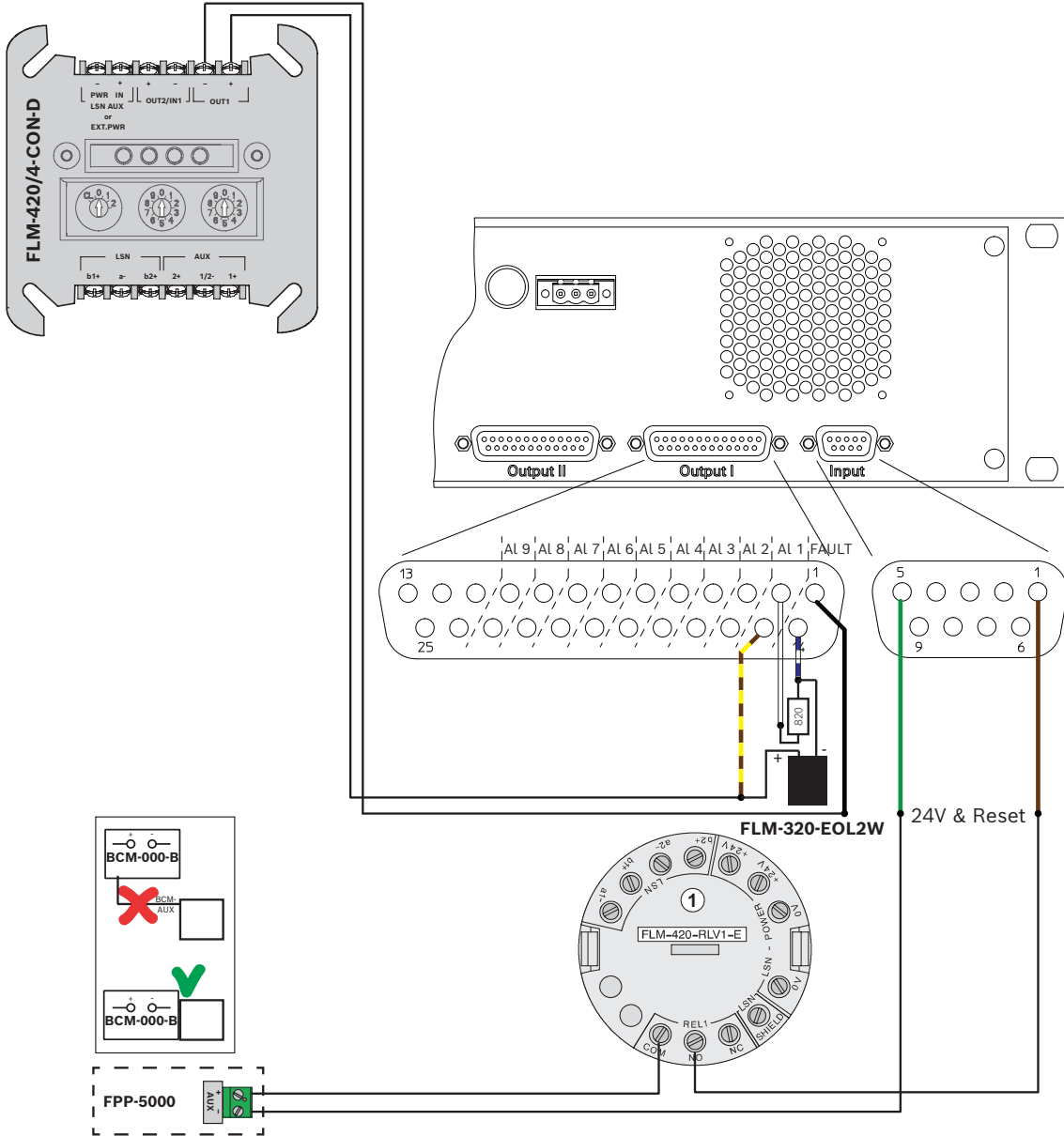
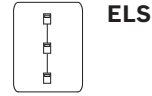


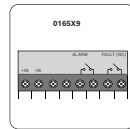
ELS

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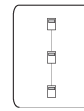


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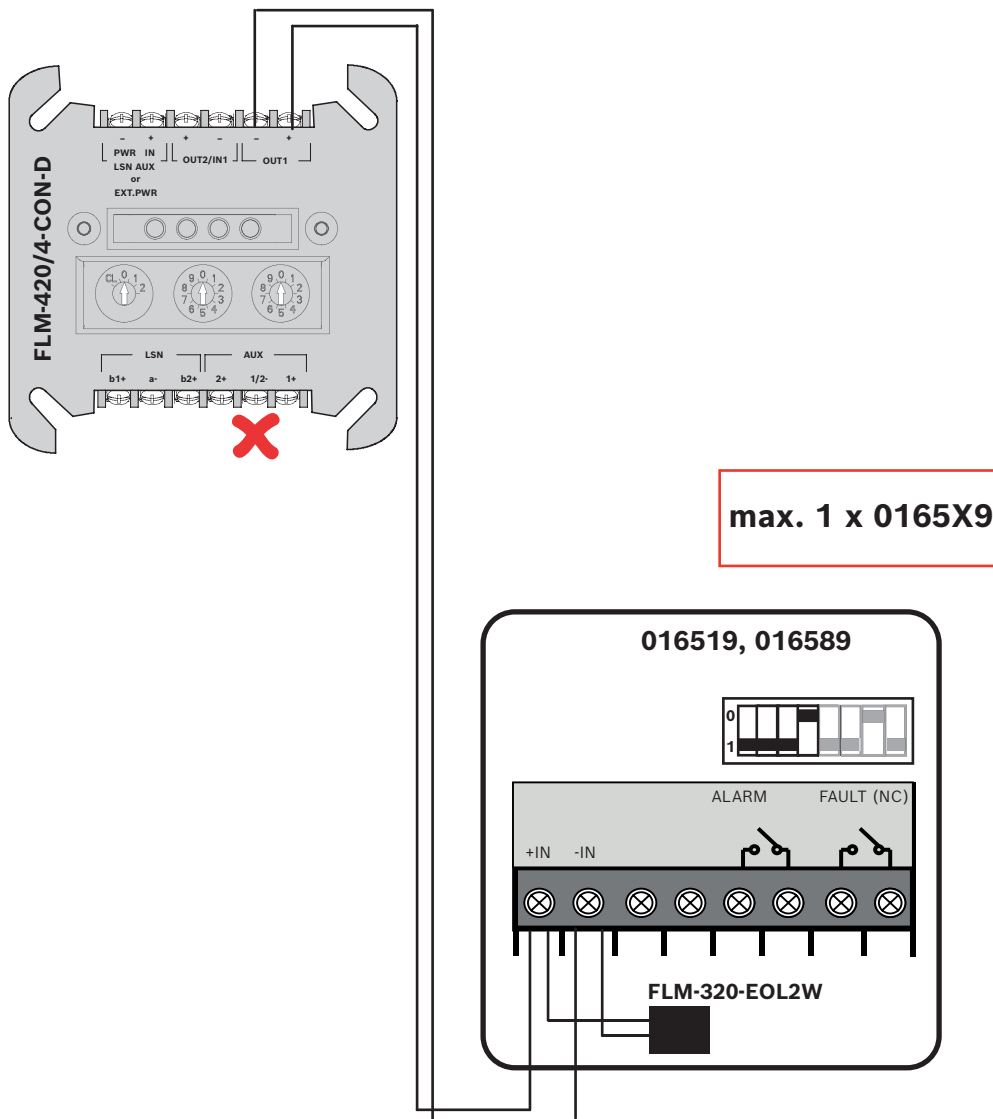


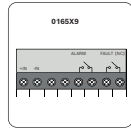


**016519, 016589**  
**IR3 Flame Detector**

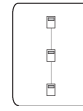


**ELS**

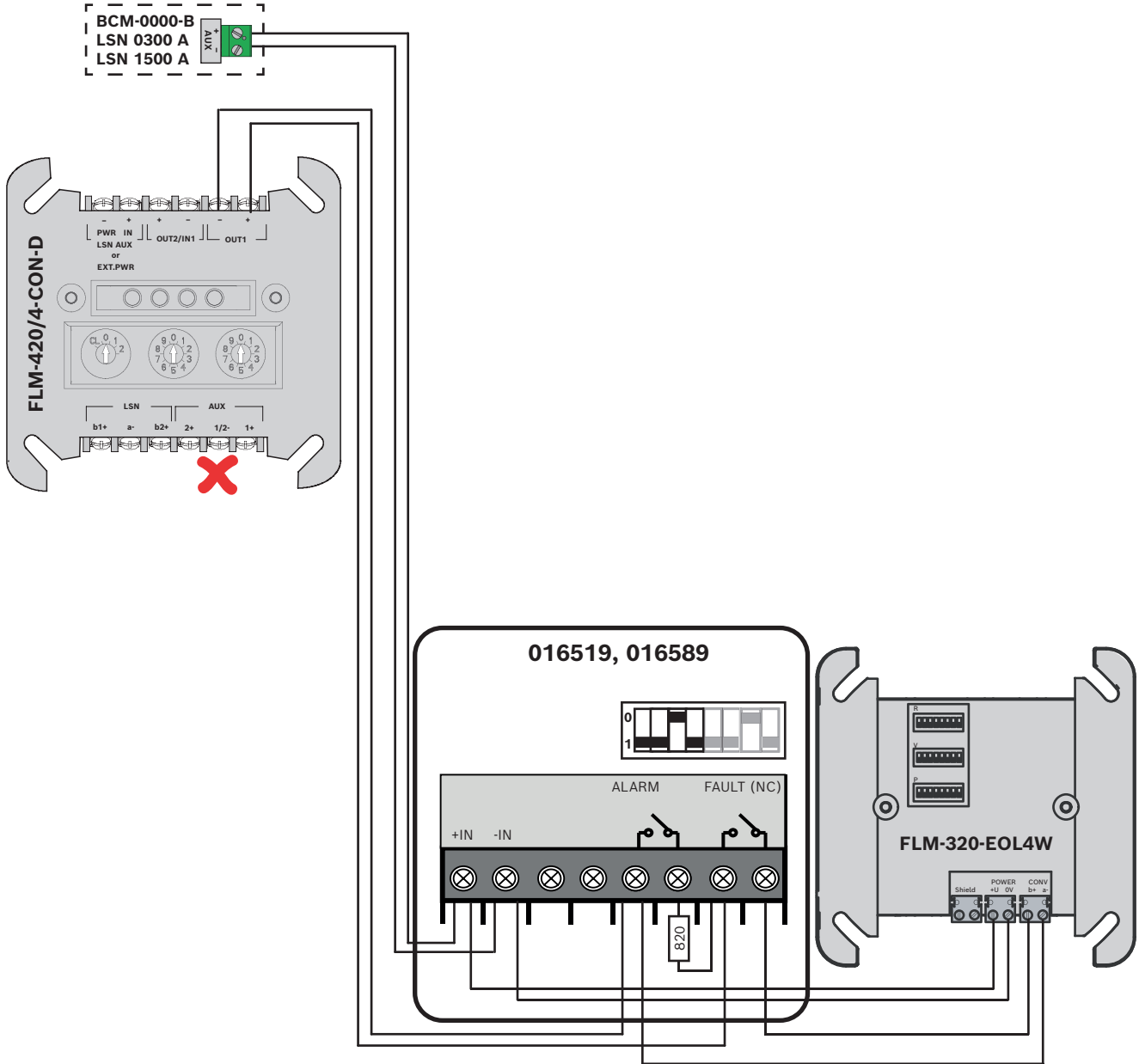




**016519, 016589**  
**IR3 Flame Detector**

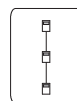


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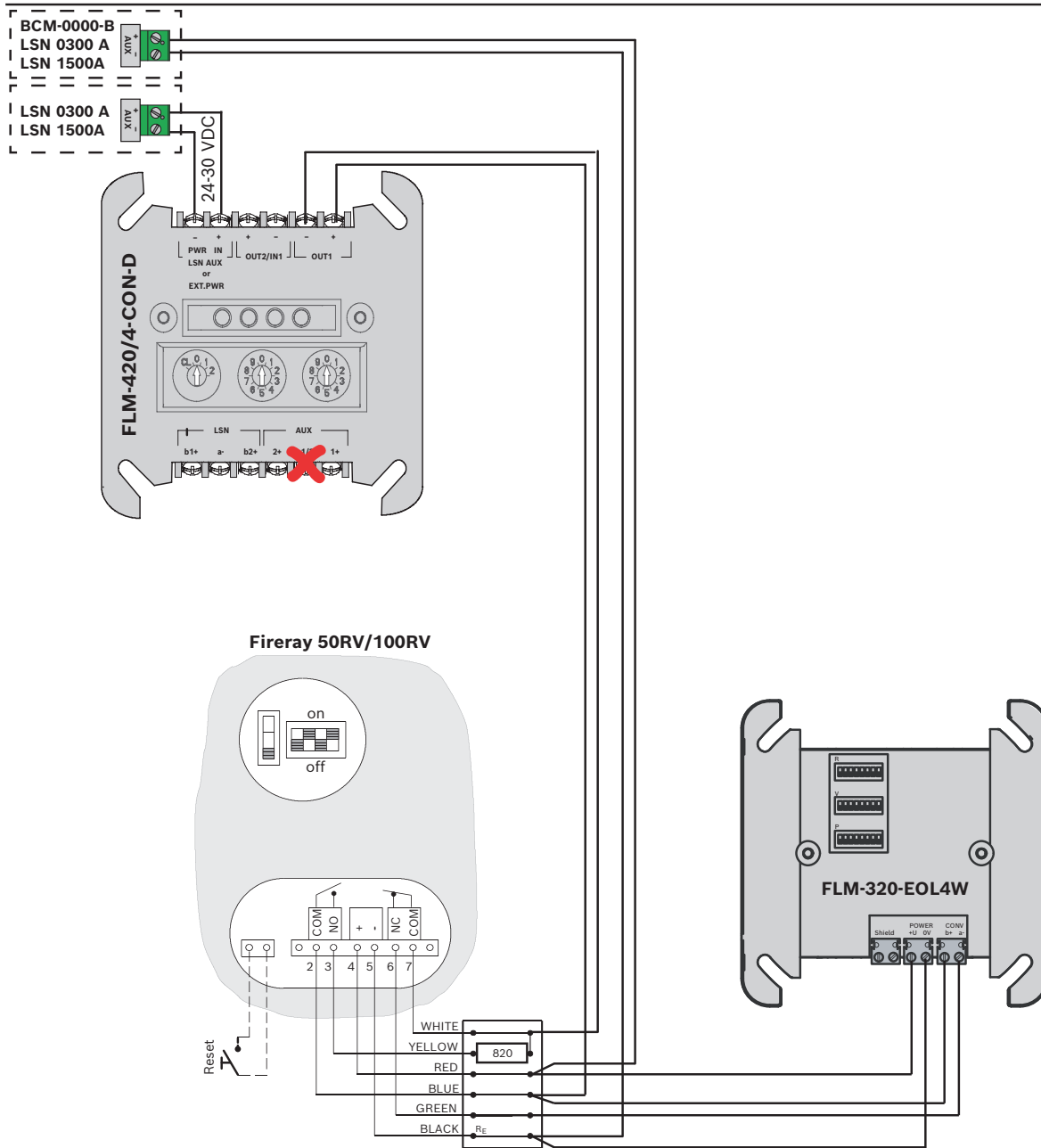


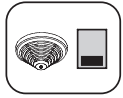


**Fireray 50RV  
Fireray 100RV**



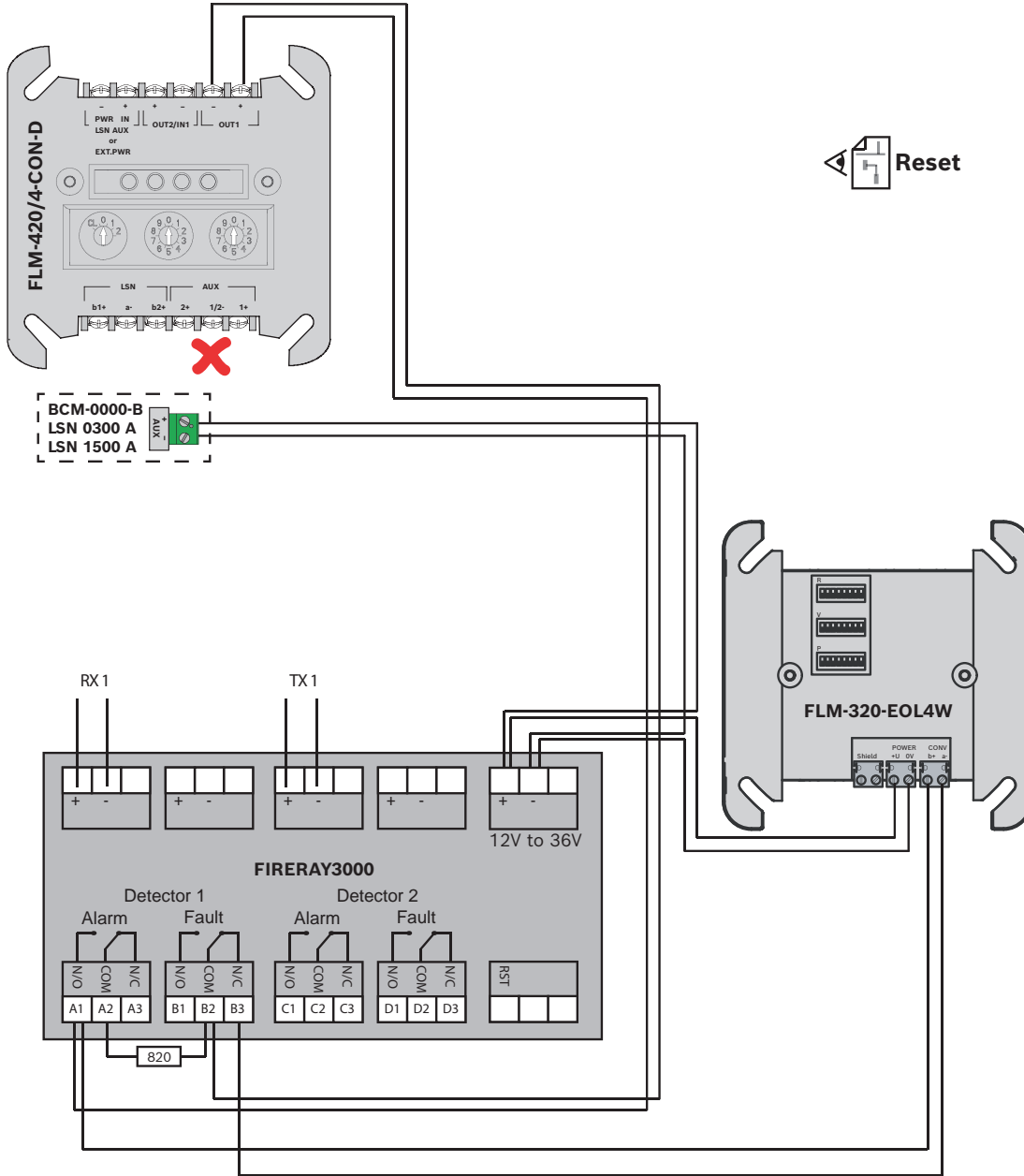
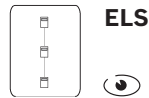
**ELS**





**FIRERAY3000**

1 x





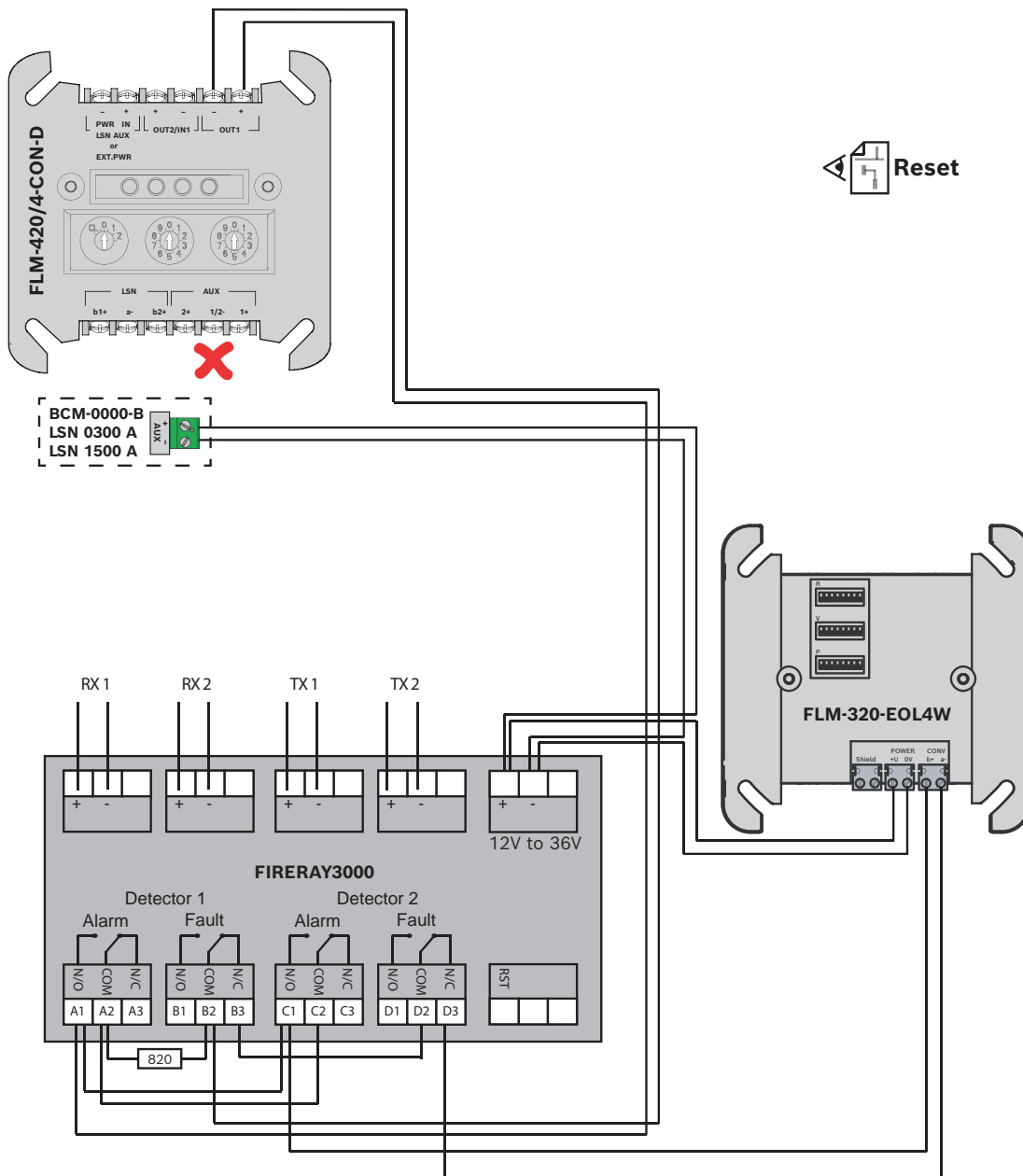


**FIRERAY3000**

2 x   **OUT1**



**ELS**

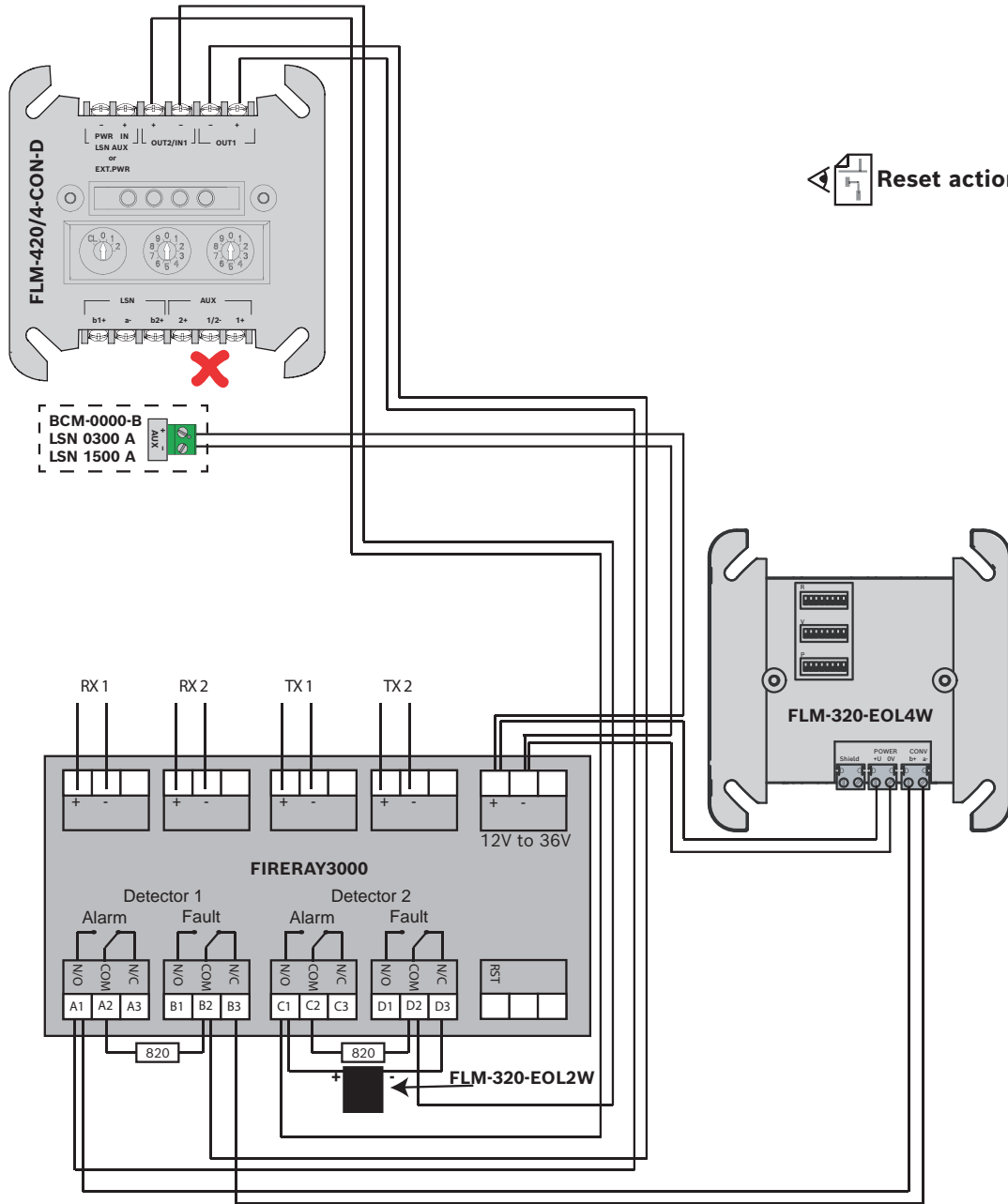




**FIRERAY3000**  
2 x **OUT1+2**



**ELS**



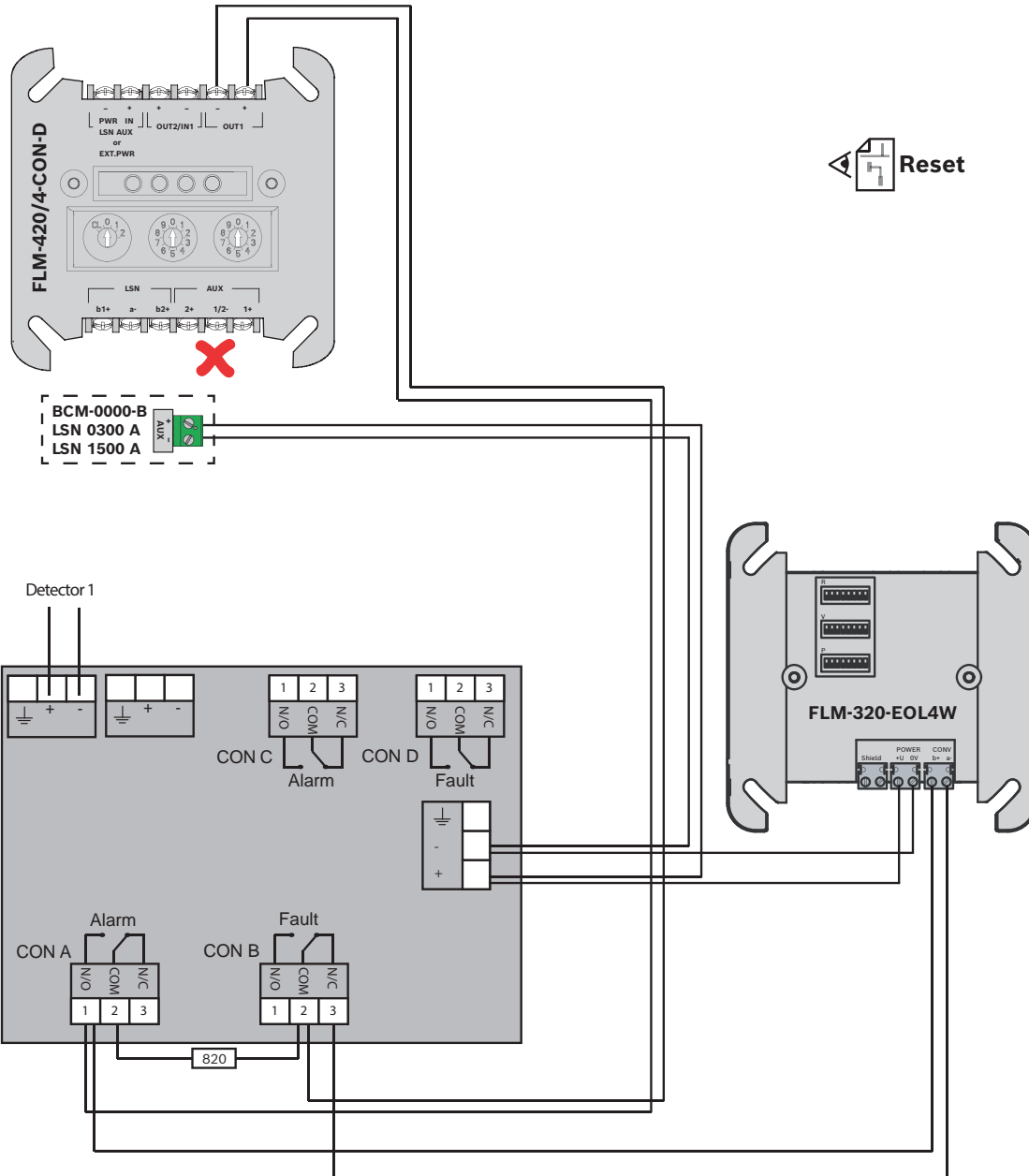


**FIRERAY5000**

1 x



**ELS**

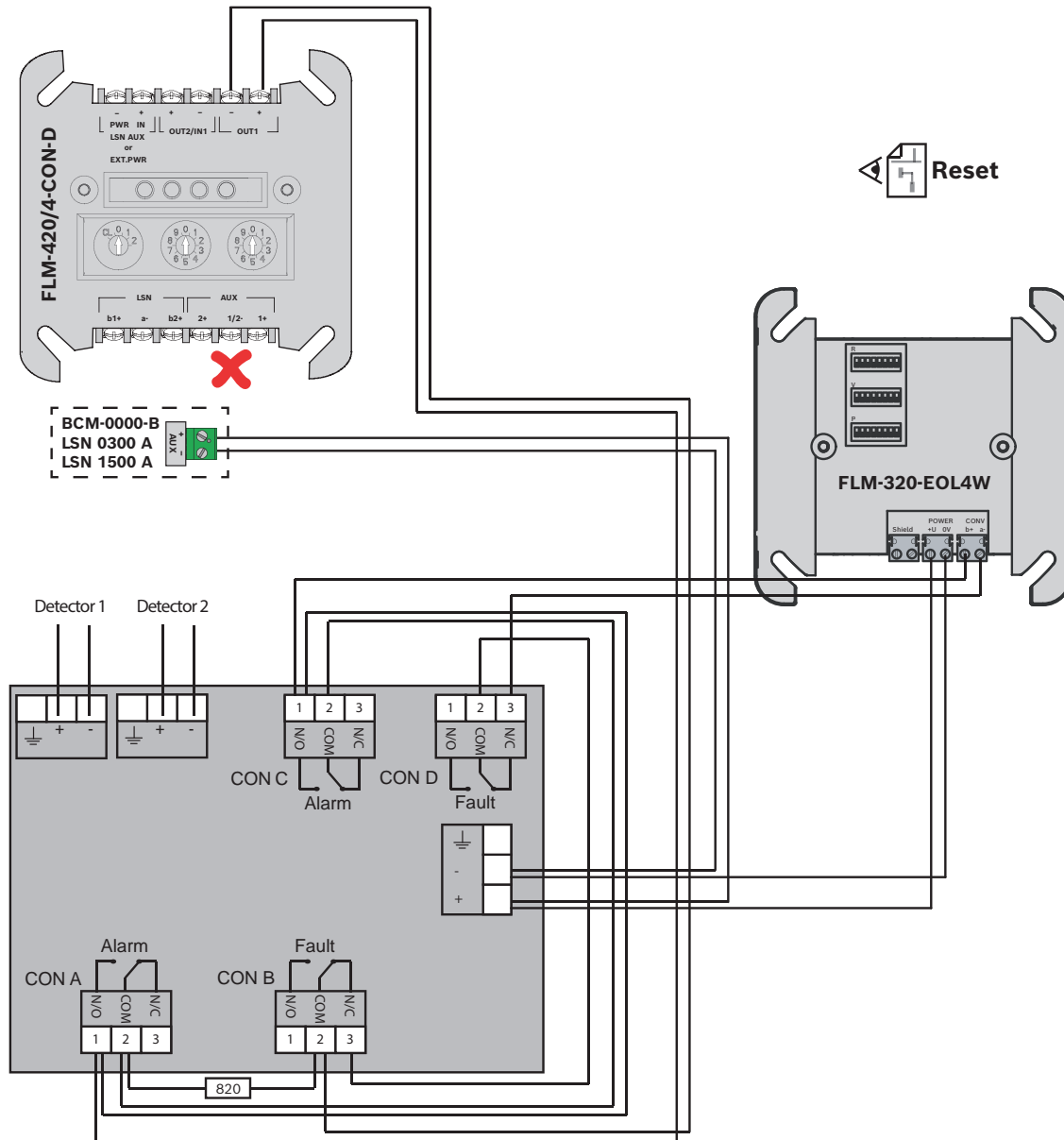




**FIRERAY5000**  
2 x  **OUT1**

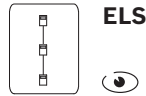


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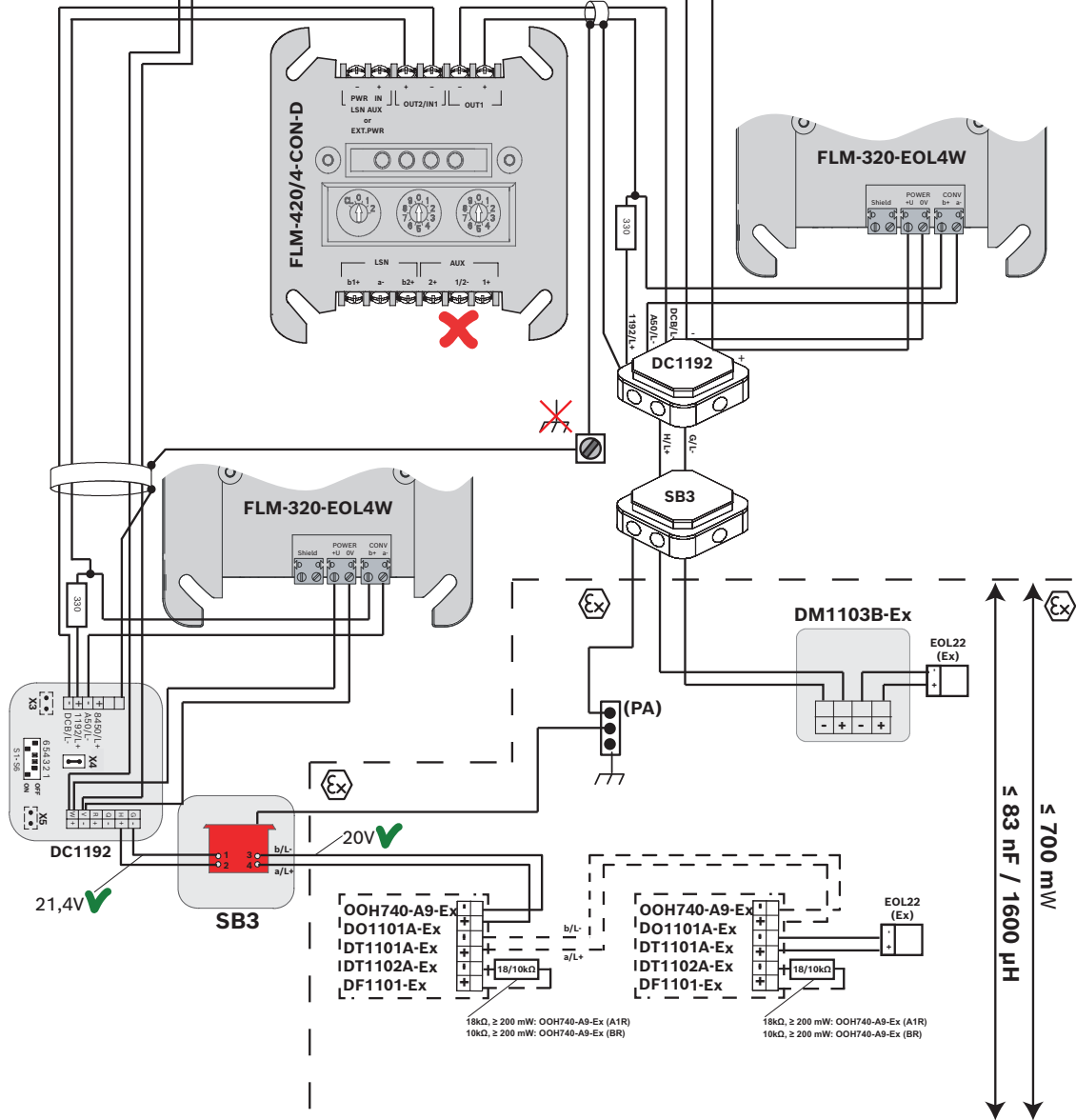


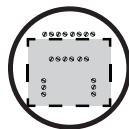
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 OOH740-A9-Ex  
 DO1101A-Ex  
 DT1101A-Ex/DT1102A-Ex  
 DF1101-Ex  
 DM1103B-Ex



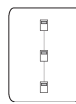
BCM-0000-B  
 LSN 0300 A  
 LSN 1500 A

BCM-0000-B  
 LSN 0300 A  
 LSN 1500 A

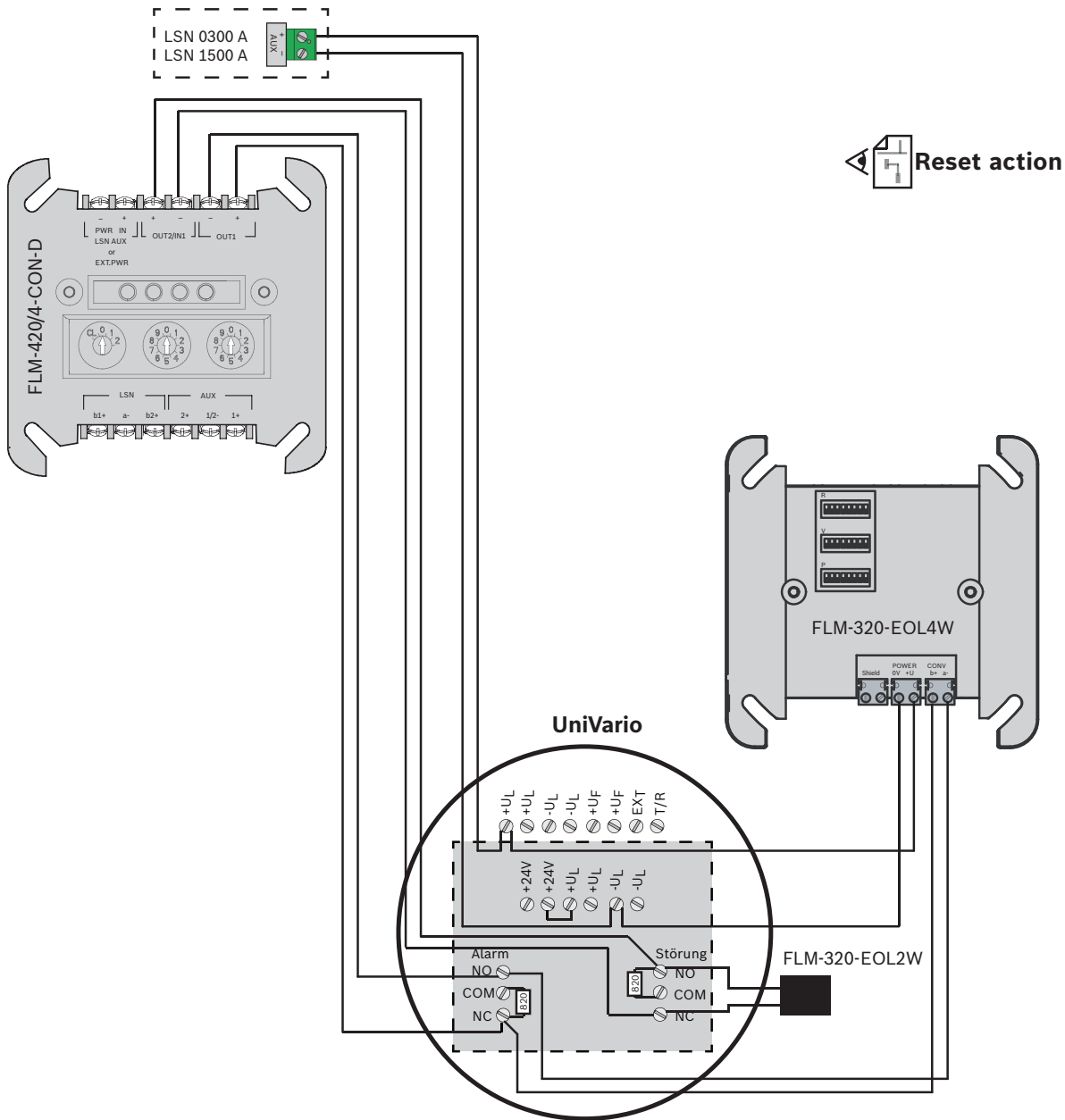




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**Bosch Sicherheitssysteme GmbH**

Robert-Bosch-Ring 5

85630 Grasbrunn

Germany

**[www.boschsecurity.com](http://www.boschsecurity.com)**

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