

AVENAR panel series

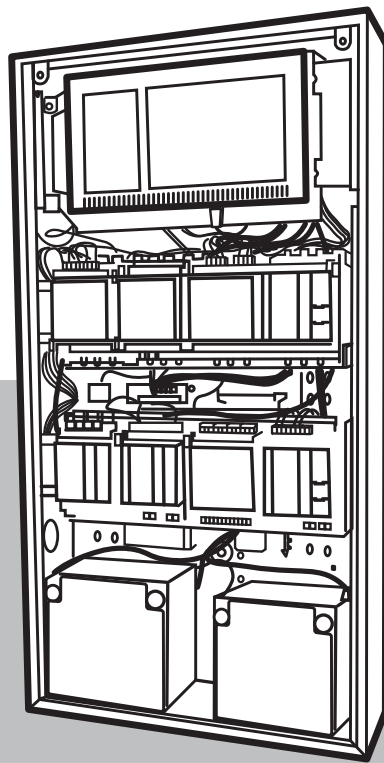


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1 Remarques

1.1 Contenu

Ce guide de câblage décrit la connexion entre les périphériques et la centrale incendie, en principe. Les réglementations nationales et locales ne sont pas prises en compte. L'application d'exigences nationales et locales peut nécessiter d'autres connexions.

**Remarque!**

Les connexions présentées dans ce document s'appliquent également à la AVENAR panel 2000, à condition que les différents composants soient des extensions agréées de la Bosch Sicherheitssysteme GmbH AVENAR panel 2000.

**Remarque!**

Les connexions LSN 0300 A présentées dans ce document s'appliquent également au module LSN 1500 A. Tenez compte pour le module LSN 1500 A, que pour les installations en Allemagne, où la conformité à VdS 2540 est requise, la ligne AUX et la ligne LSN doivent être dans des câbles séparés.

1.2 Fiche produit

- Le manuel d'installation joint contient les instructions d'installation des composants individuels de la centrale incendie.
- Des informations supplémentaires (manuels de l'utilisateur, guide du fonctionnement en réseau, manuels système) sont disponibles sur Internet à l'adresse suivante : www.boschsecurity.com

1.3 Important

- Utilisez uniquement le matériel d'installation recommandé par Bosch Security System.
- Portez toujours un bracelet antistatique mis à la terre pour effectuer des travaux de conversion ou de soudure.
- Seul le personnel formé est habilité à l'assemblage et à l'installation.
- Observez les critères de connexion des autorités / institutions régionales.



Danger!

Tout contact avec des composants sous tension présente un danger de mort. Débranchez l'alimentation avant de procéder à l'installation.

Câble blindé

Un câble blindé est nécessaire pour toutes les connexions bifilaires au CZM 0004 A et pour le raccordement des produits suivants :

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

L'exemple de câblage suivant illustre comment appliquer un câble blindé.

Remarque!

Si un câble blindé du LSN doit être connecté, procédez conformément aux spécifications LSN.

- Connectez le fil blindé du câble LSN côté centrale au connecteur de terre fonctionnel désigné :

deux connexions au début et à la fin d'une boucle
une connexion au début d'un tronçon

- Boucle à travers le fil blindé du câble sur tous les périphériques LSN à l'aide des bornes fournies

- Aucune connexion supplémentaire du fil blindé du câble LSN n'est autorisée, ni aux connecteurs de terre quel que soit l'endroit ni à aucune autre source électrique



1.4 Notes pour l'utilisateur

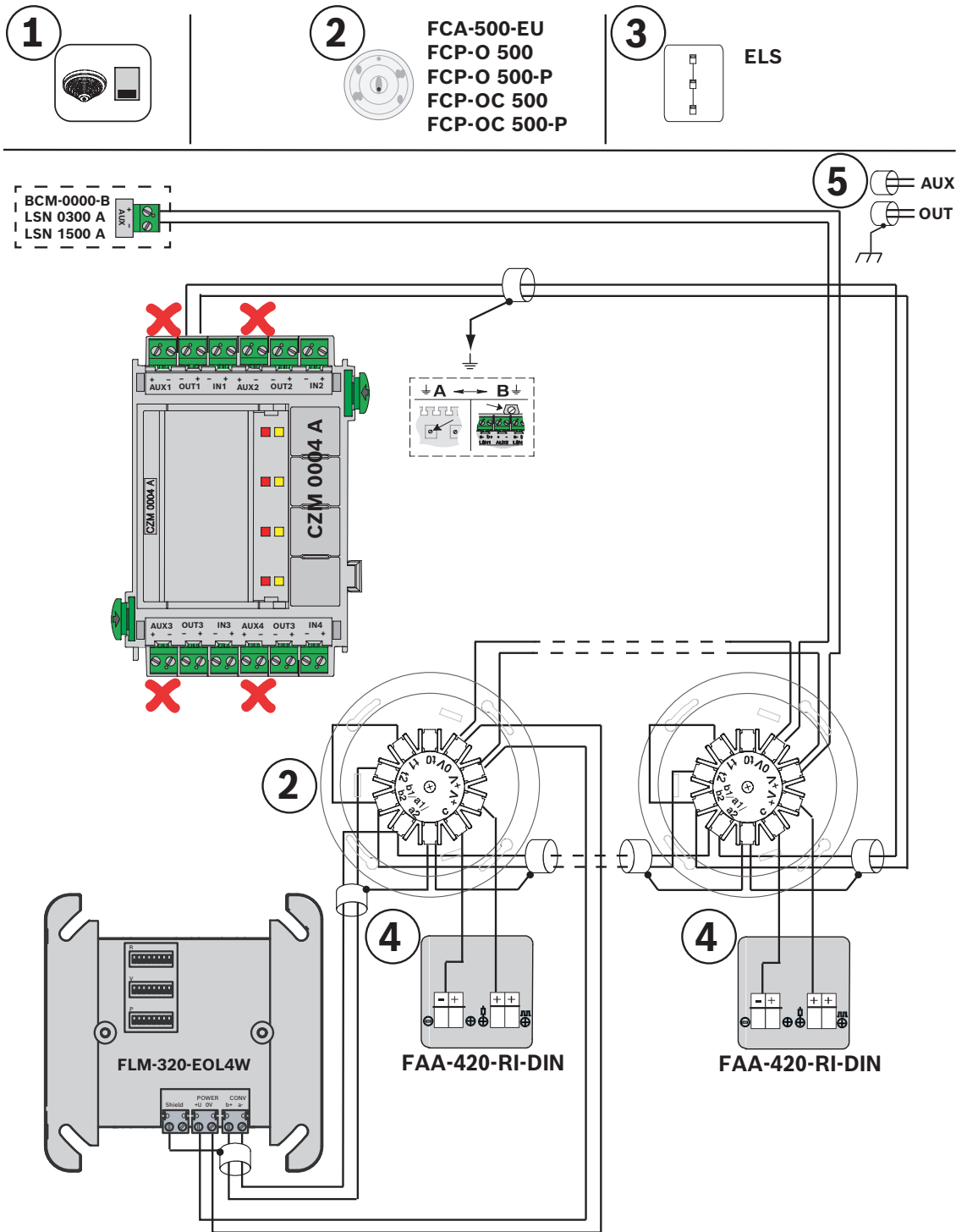
Le guide de câblage est structuré comme suit :

- Le chapitre Câblage comporte une partie pour chaque dispositif auquel est connecté un périphérique. Un schéma de câblage illustre la connexion directe entre les périphériques (aucune connexion en cascade).
- Un récapitulatif de tous les câblages enrichis de modules EOL supplémentaires pour la surveillance ouverte progressive figure dans la section EOL.

Pour trouver le câblage requis, vous pouvez aussi utiliser :













- la table des matières au début du chapitre Câblage et au début des sections Modules fonctionnels, Modules d'interface et EOL.
- l'Index (abstraction de la langue),
- et la recherche de texte intégrale.

Consultez le suivant schéma de câblage :

















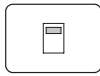
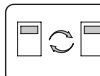

1	Marques de chapitre (<i>Marques de chapitre, page 7</i>)
2	Périphérique connectable
3	Symboles de connexion (<i>Symboles de connexion, page 7</i>)
4	Composants optionnels
5	Alimentation et câblage (<i>Alimentation et câblage, page 8</i>)

1.4.1 Marques de chapitre



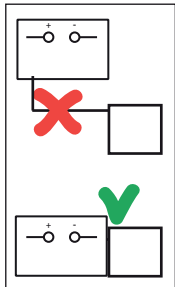
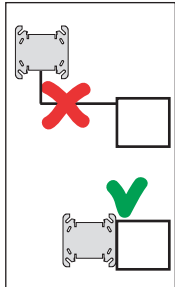

	Détecteurs automatiques		Panneaux de commande et d'affichage		Imprimante
	Alimentation électrique		Modules fonctionnels		Équipement de détection d'incendie
	Modules d'interface		Systèmes d'extinction		Déclencheurs manuels d'alarme incendie
	Dispositifs de signalisation		Commandes de portes		Unités de transmission

1.4.2 Symboles de connexion

	Câblage obligatoire		Câblage optionnel		Non autorisé
	Redondance		Câblage en boucle		Câblage en boucle avec élément redondant
	Câblage en tronçon		Câblage en tronçon redondant		Câblage en tronçon avec élément redondant
	Câblage en tronçon redondant avec élément redondant	ELS	<p>Ce câblage est conforme à la norme VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. ELS est l'abréviation de supervision de ligne étendue, qui signifie la surveillance de circuit court progressif et surveillance ouverte progressive. Ce câblage propose ELS.</p> <p>Un circuit court progressif est détecté par les modules suivants : LSN 0300 A, LSN 1500 A et BCM-0000-B lors de l'utilisation de FPP-5000-TI13.</p>		<p>Ce câblage en boucle est conforme à la norme VdS 2489 / VdS 2540 / VdS 2541 / VdS 2543. Il propose ELS. Aucun module EOL n'est nécessaire.</p>
	Synchronisation		Lieux présentant un risque d'explosion		Centrale

	Centrale autonome		Centrale autonome avec redondance		Pour les socles de détecteur : Le câblage est valable uniquement pour le socle de détecteur dans lequel ce dernier est installé.
EN 54-2, DIBT etc.	Si la conformité à cette norme est requise, utilisez le câblage spécifié.				

1.4.3 Alimentation et câblage

	Un câble à 2 fils est requis.
	Un câble blindé, à 2 files, est requis.
	Le boîtier du produit contenant l'alimentation doit être encastré avec l'élément.
	Un montage encastré est requis pour le module d'interface.
 Reset action	Consultez le câblage dans le présent manuel. Pour permettre une réinitialisation automatique de l'appareil, vous devez implémenter l'action de réinitialisation.

1.5 Valeurs de résistance

Le tableau suivant présente un aperçu des codes de couleur des résistances. Les résistances avec film métallique livrées avec le produit possèdent 5 bandes colorées indiquant la valeur de la résistance.

Couleur	1. bande	2. bande	3. bande	4. bande (multiplicateur)	5. bande (tolérance)
Argenté				10^{-2}	$\pm 10\%$
Doré				10^{-1}	$\pm 5\%$
Noir		0	0	10^0	

Couleur	1. bande	2. bande	3. bande	4. bande (multiplicateur)	5. bande (tolérance)
Marron	1	1	1	10 ¹	±1%
Rouge	2	2	2	10 ²	±2%
Orange	3	3	3	10 ³	±0.05%
Jaune	4	4	4	10 ⁴	±0.02%
Vert	5	5	5	10 ⁵	±0.5%
Bleu	6	6	6	10 ⁶	±0.25%
Violet	7	7	7	10 ⁷	±0.1%
Gris	8	8	8	10 ⁸	±0.01%
Blanc	9	9	9	10 ⁹	

Conformément à la norme DIN EN 60062:2017

Orange — blanc — noir — marron — marron : résistance de 3,9 kohms avec tolérance de 1 %,

Rouge — rouge — noir — marron — marron : résistance de 2,2 kohms avec tolérance de 1 %.

2 Câblage



FPP-5000 alimentation, page 11

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

DIBT, page 15

Modules fonctionnels, page 42

BCM-000-B, page 43

CZM 0004 A, page 45

ENO 0000 A/B, page 61

LSN 0300 A, page 68

NZM 0002 A, page 106

RMH 0002 A, page 119

IOS 0020 A, page 120

FPE-5000-UGM, page 122

Modules d'interface, page 124

FLM-420-4/CON-D/S, page 125

FLM-420-I8R1-S, page 158

FLM-420-NAC-D/S, page 160

FLM-420-RHV, page 172

FLM-420-RLE-S, page 184

FLM-420-RLV1-E, page 185

FLM-420-RLV8-S, page 186

FMF-ADP-FBF/FMF-ADP-TTY, page 187

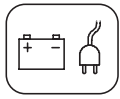
EOL, page 188

CZM 0004 A, page 189

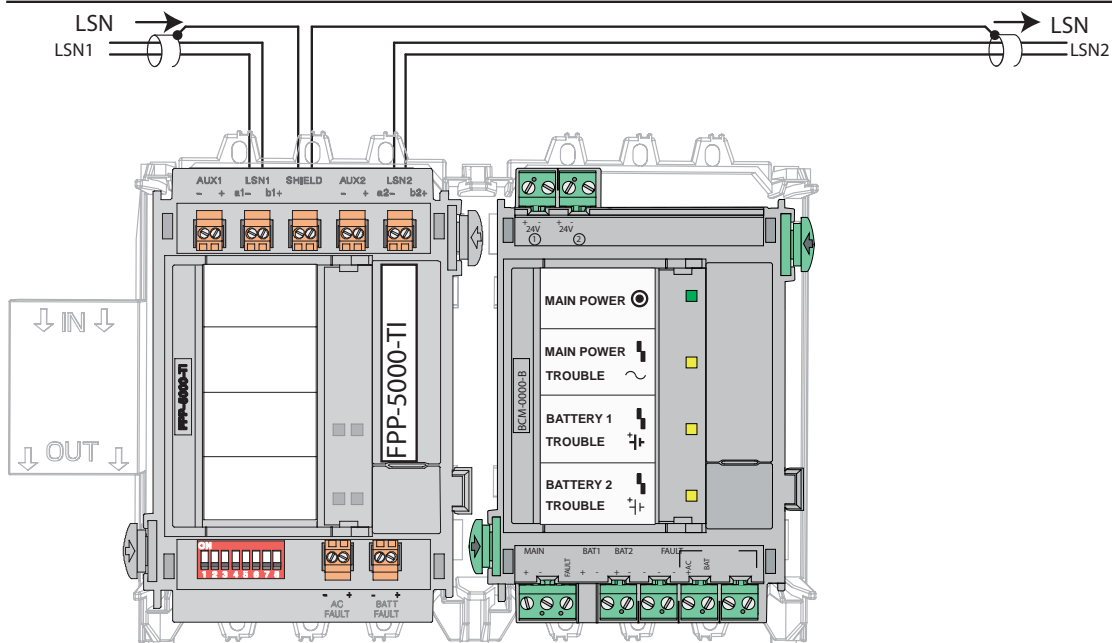
LSN 0300 A, page 201

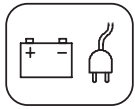
FLM-420/4-CON-S/D, page 246

2.1 FPP-5000 alimentation



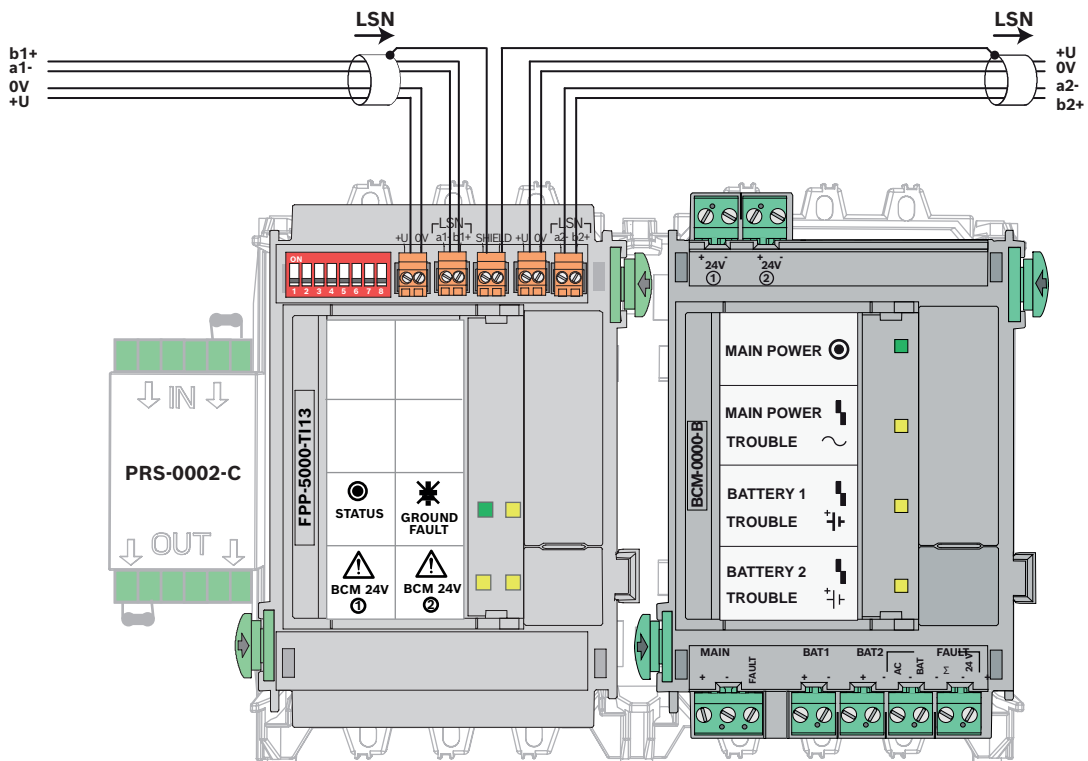
FPP-5000-TI

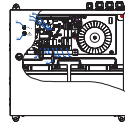
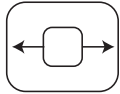




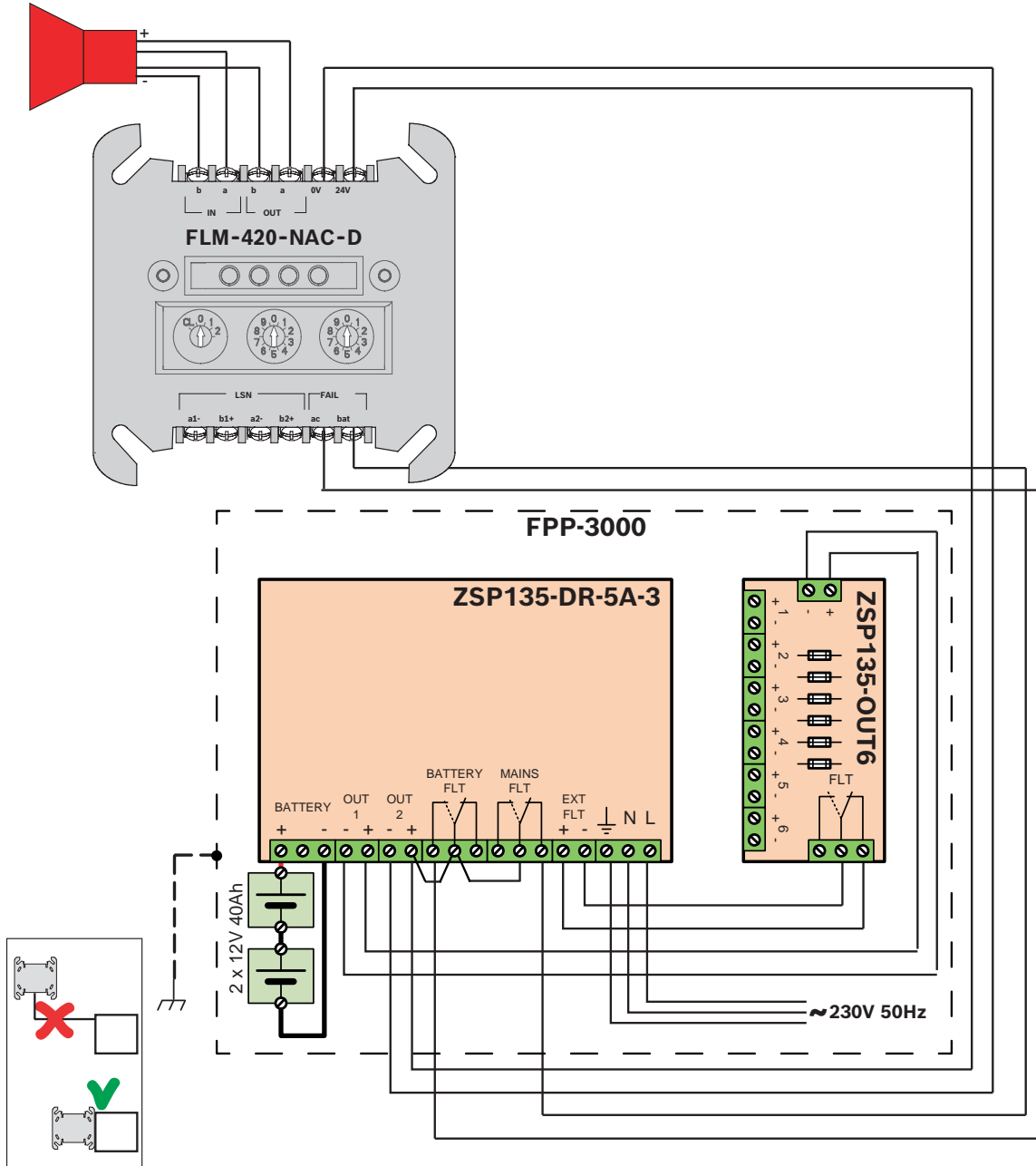
FPP-5000-TI13

ELS



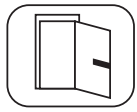


ZSP135-DR-5A-3
ZSP135-OUT6
FPP-3000



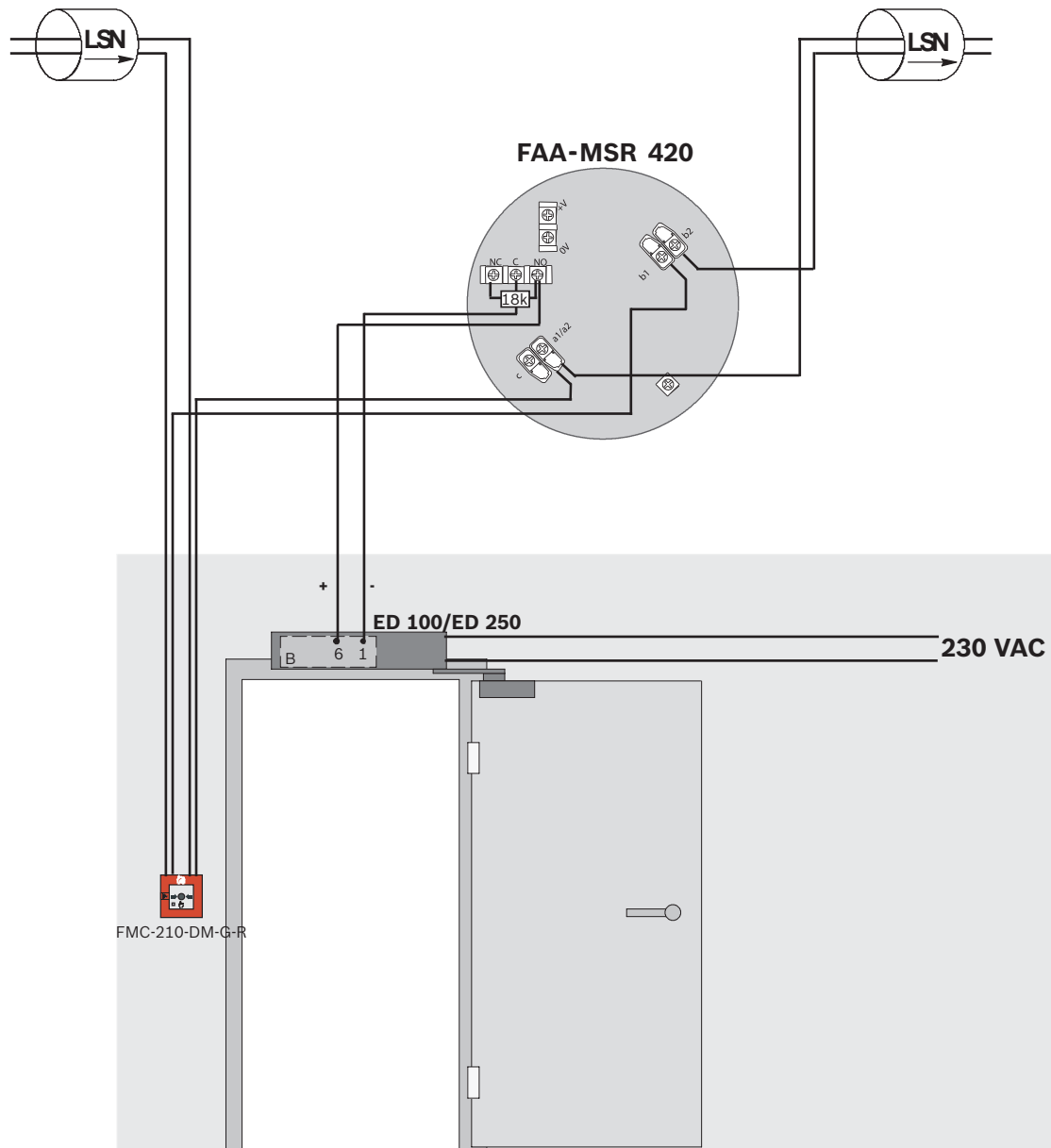
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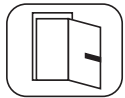
DIBT



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

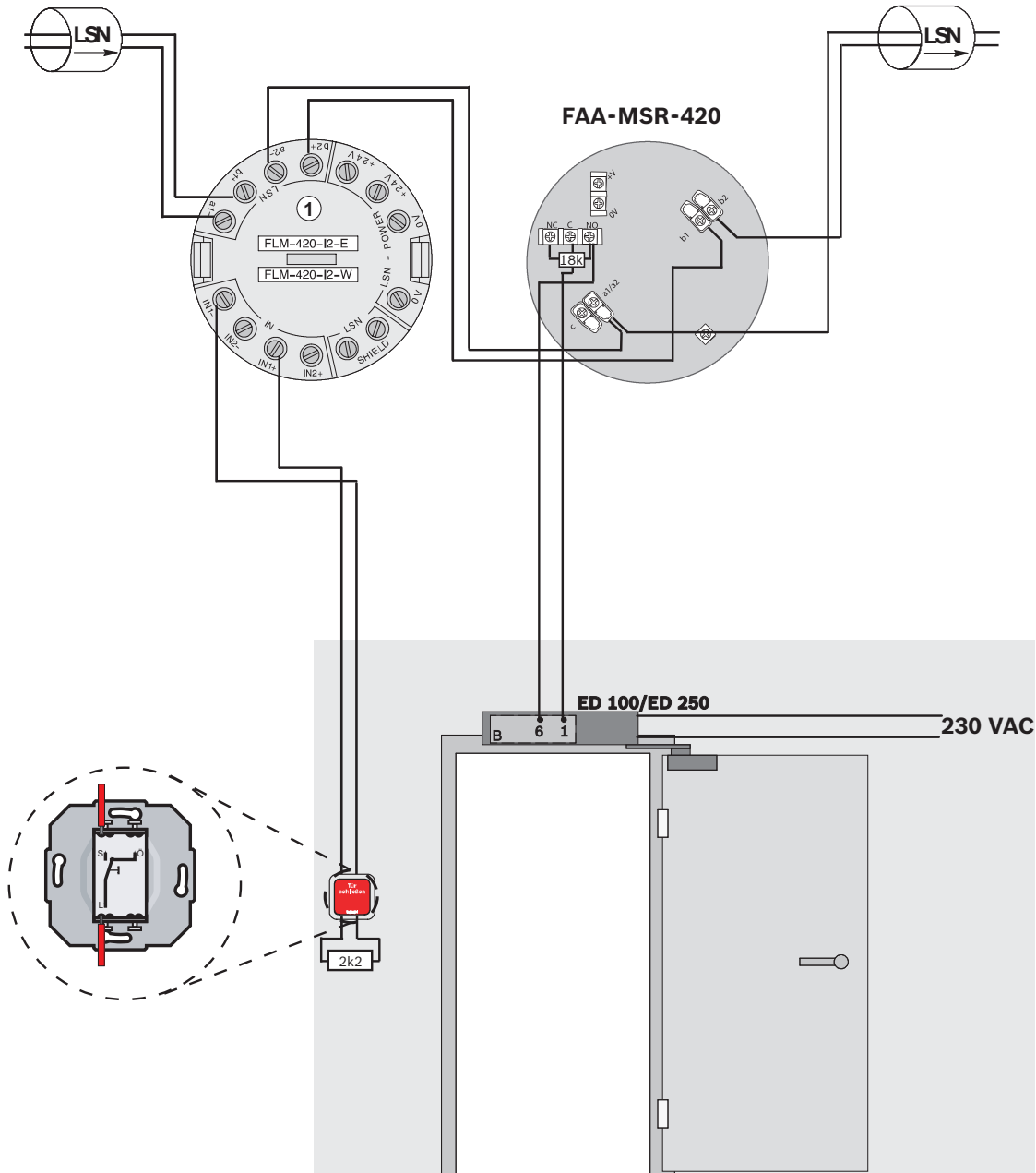
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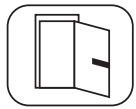




**ED 100
ED 250
(+Upgrade Card B)**

DIBT

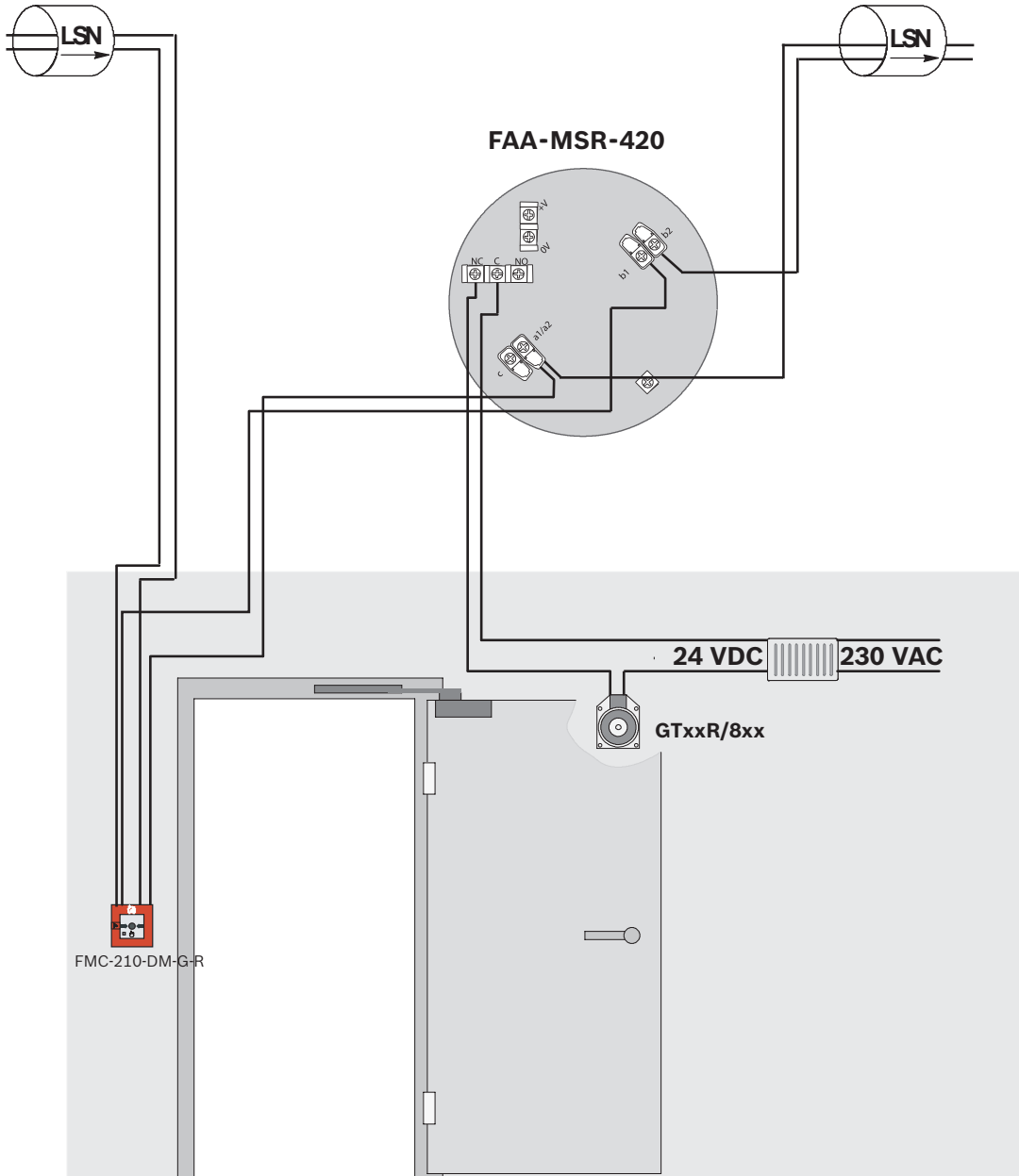


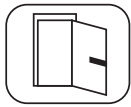


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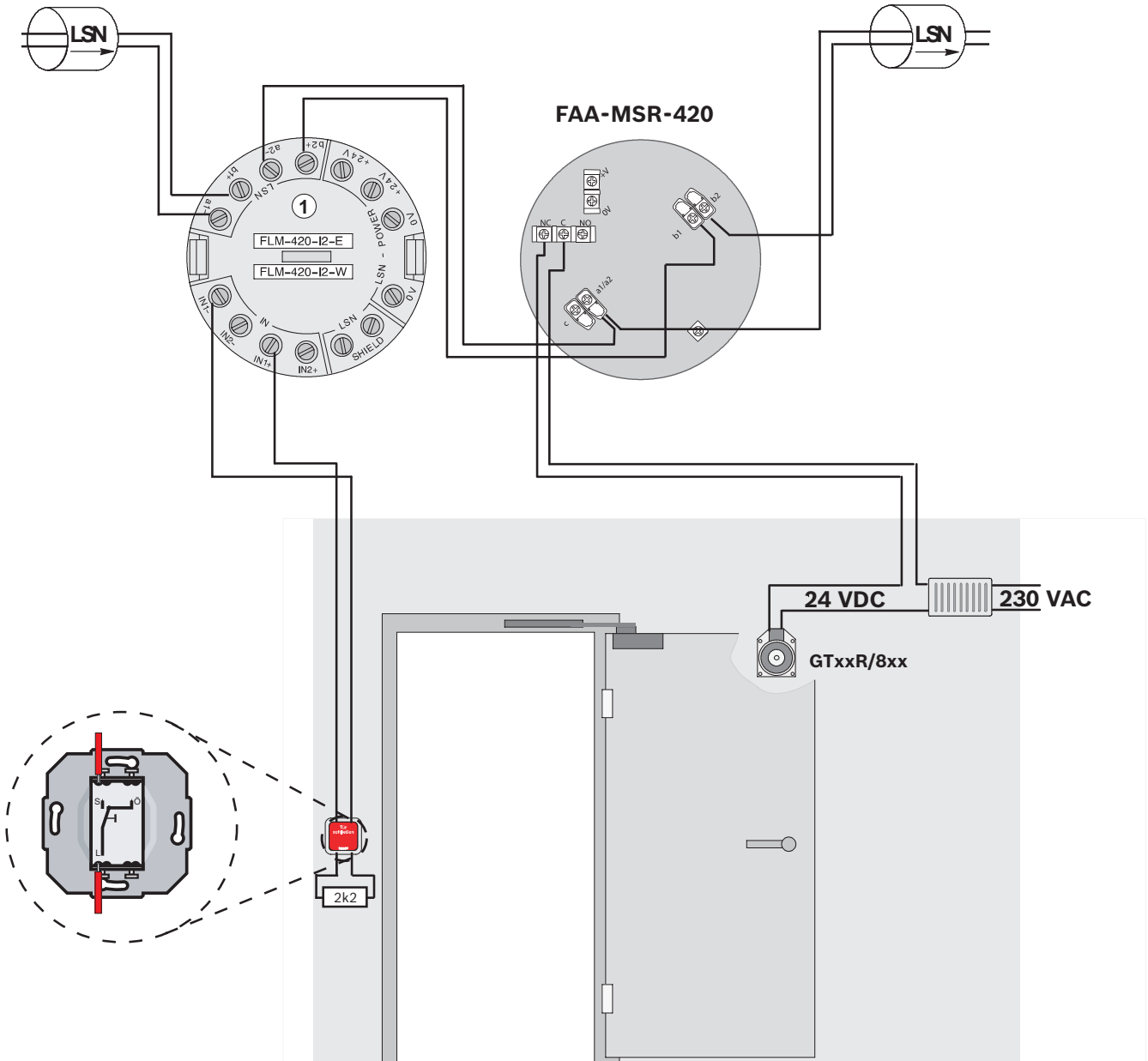


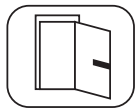


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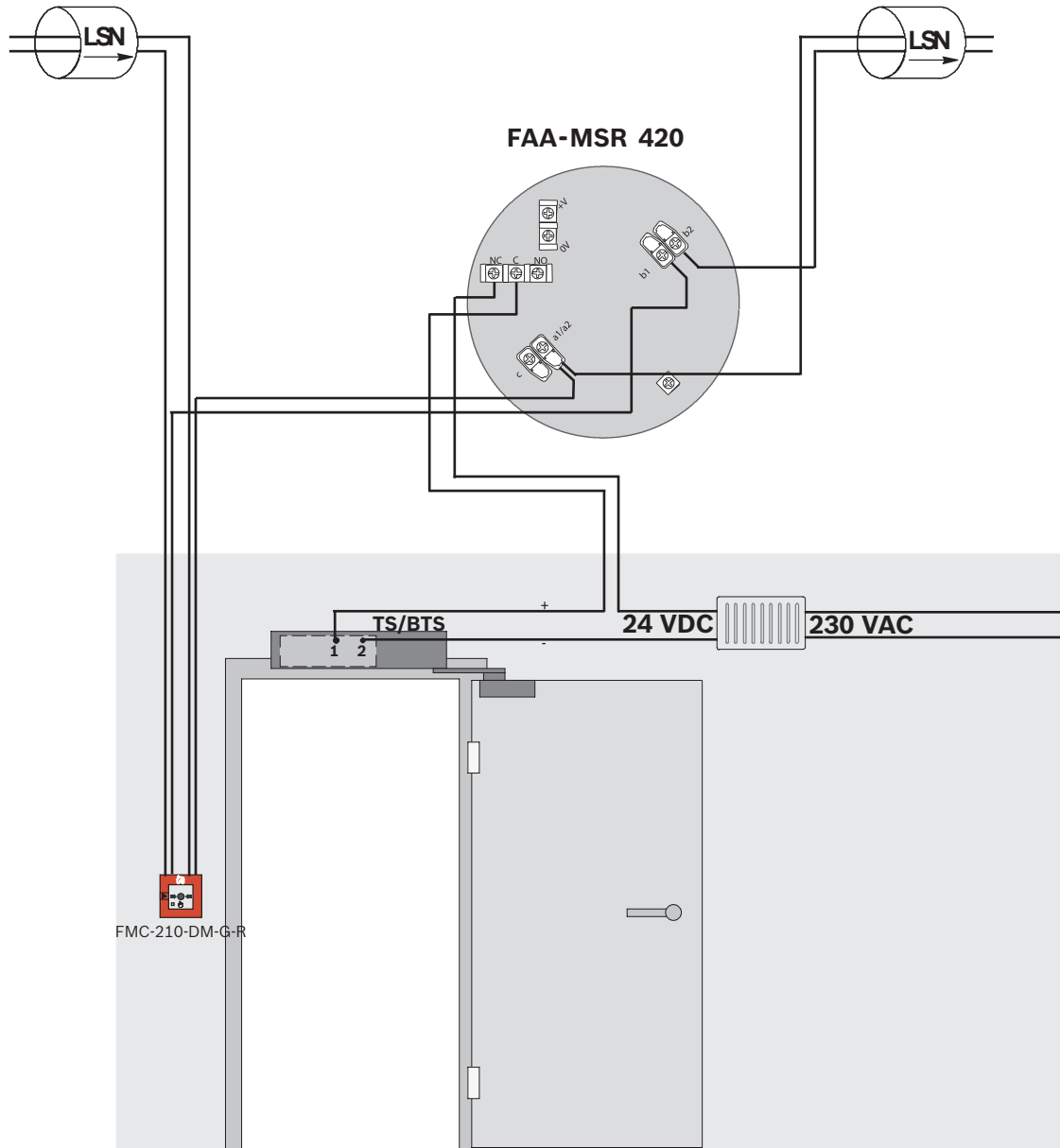
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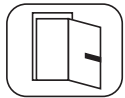




TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

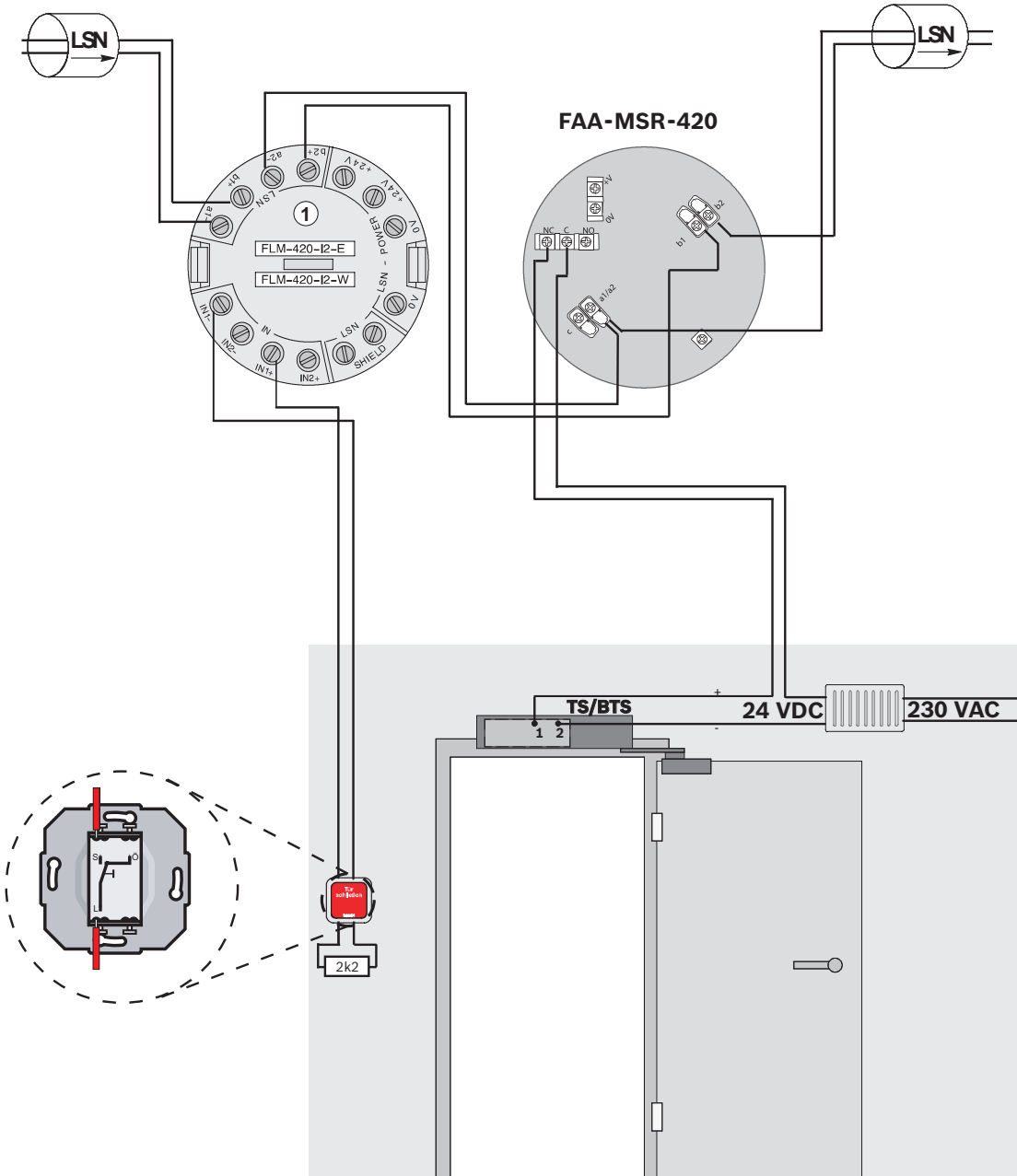
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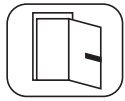




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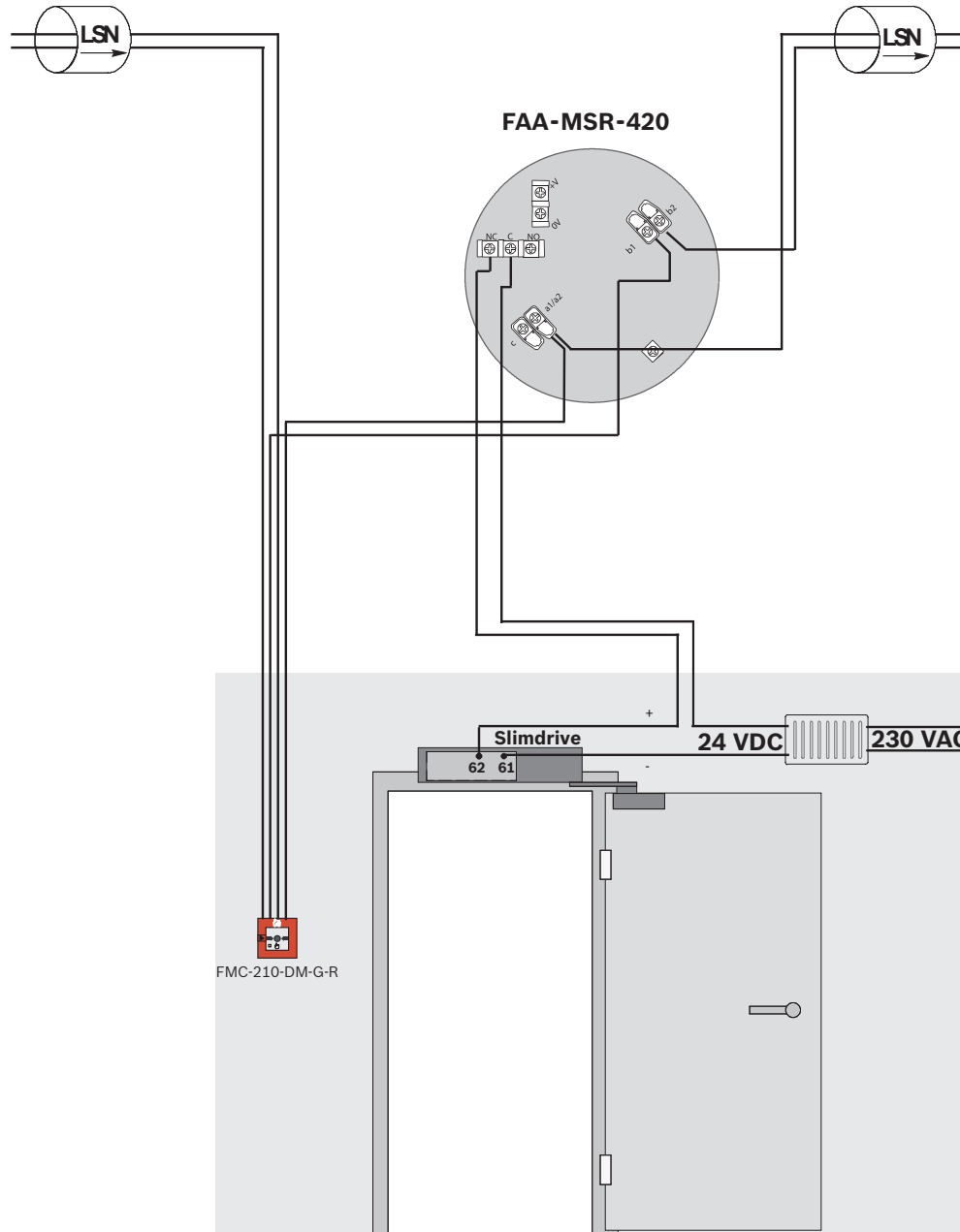
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Slimdrive EMD-F/EMD F-IS

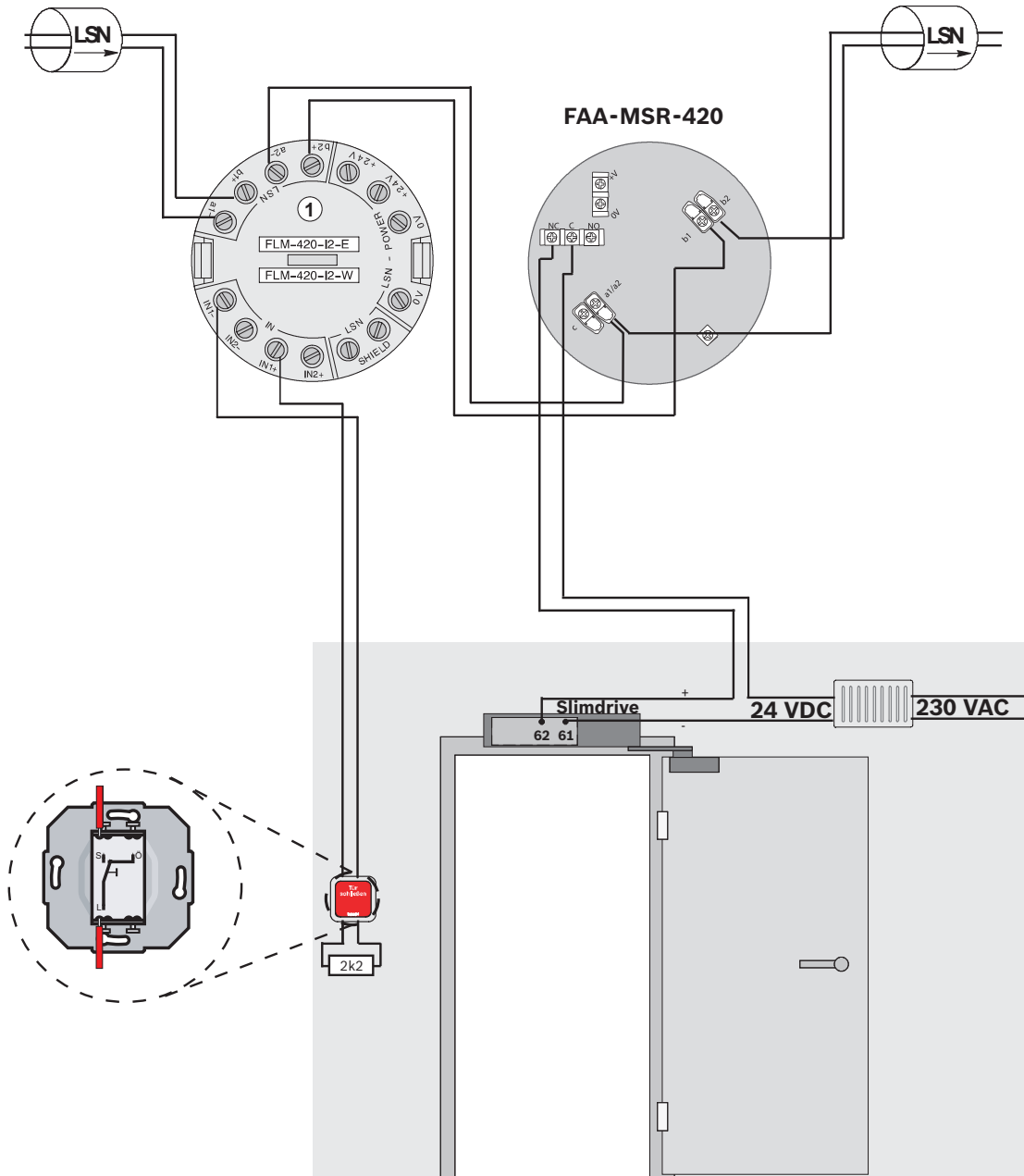
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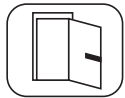




Slimdrive EMD-F/EMD F-IS

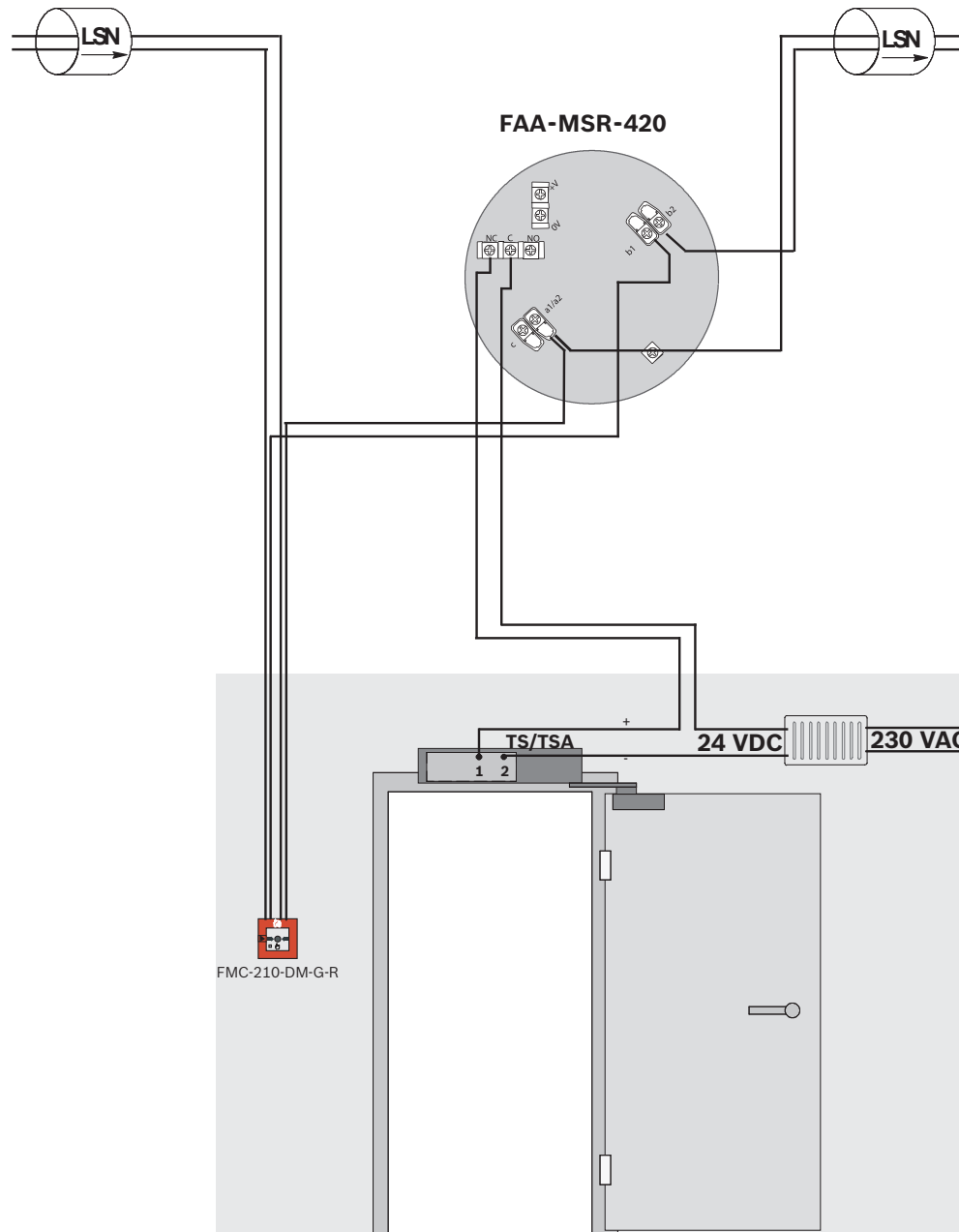
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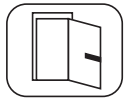




TS 4000 E/E-IS/EFS
 TS 5000 E/E-IS/E-ISM
 TS 550 E
 TSA 160 NT F/F-IS/F-IS/TS

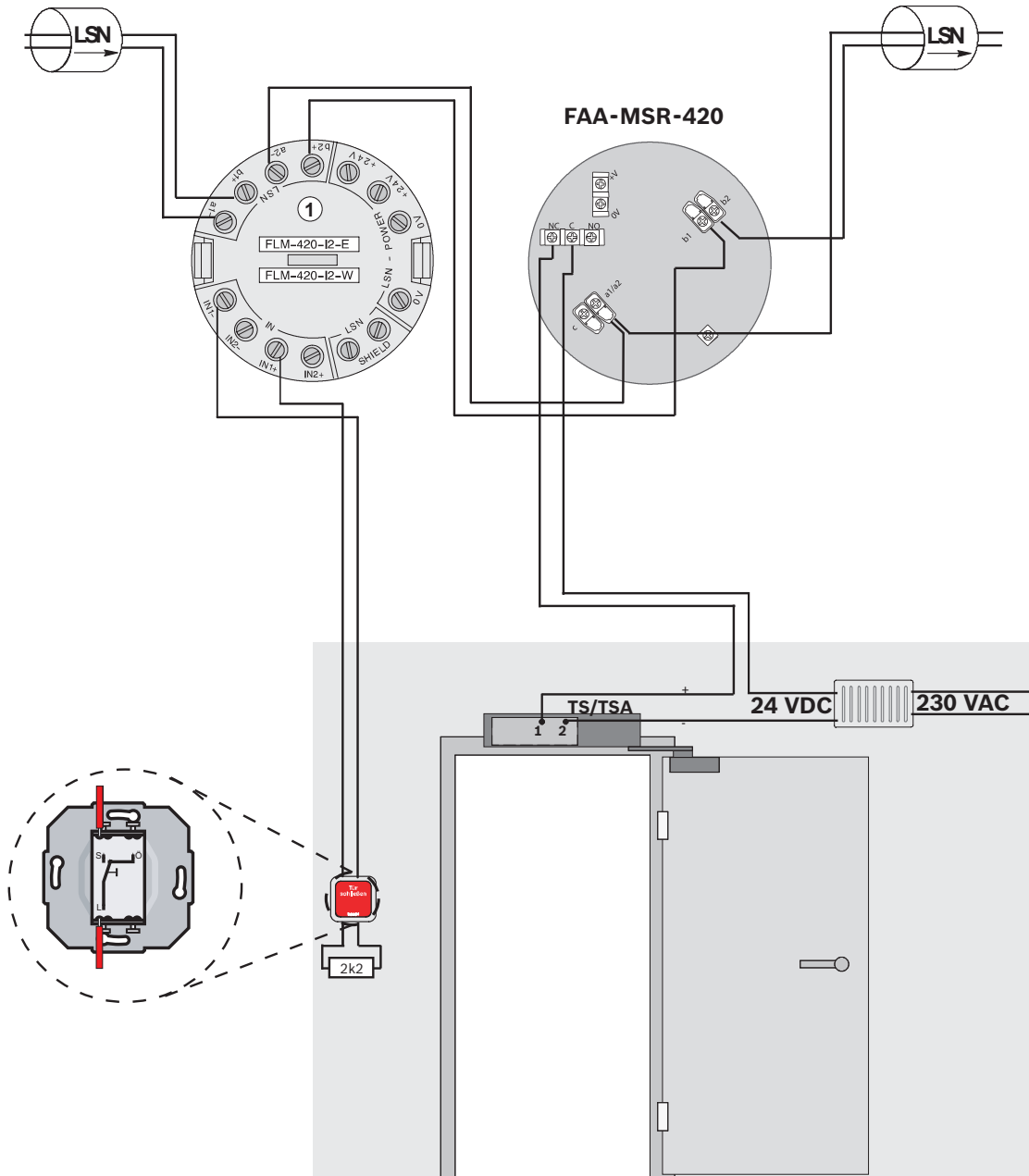
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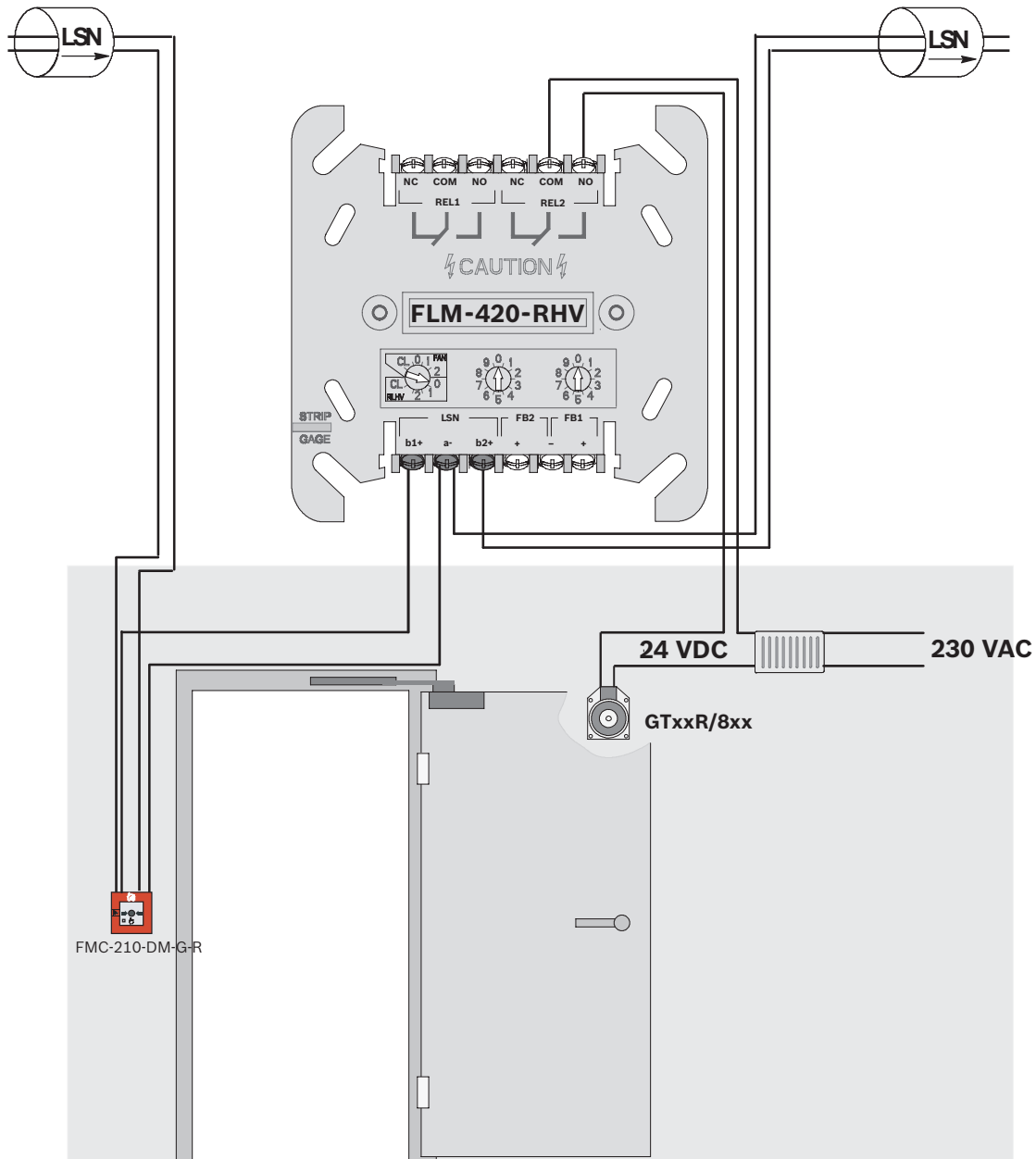


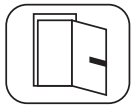


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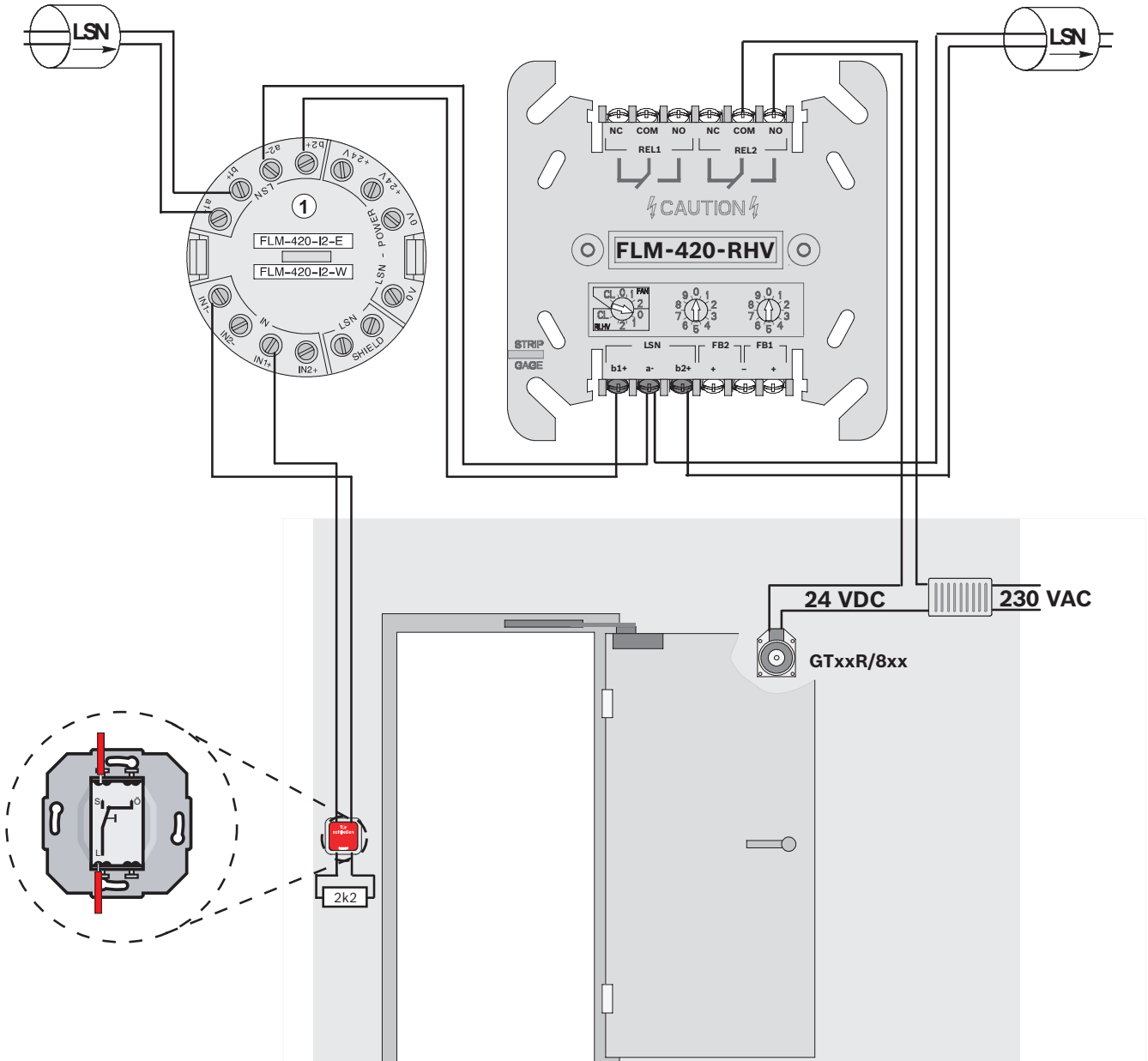


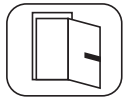


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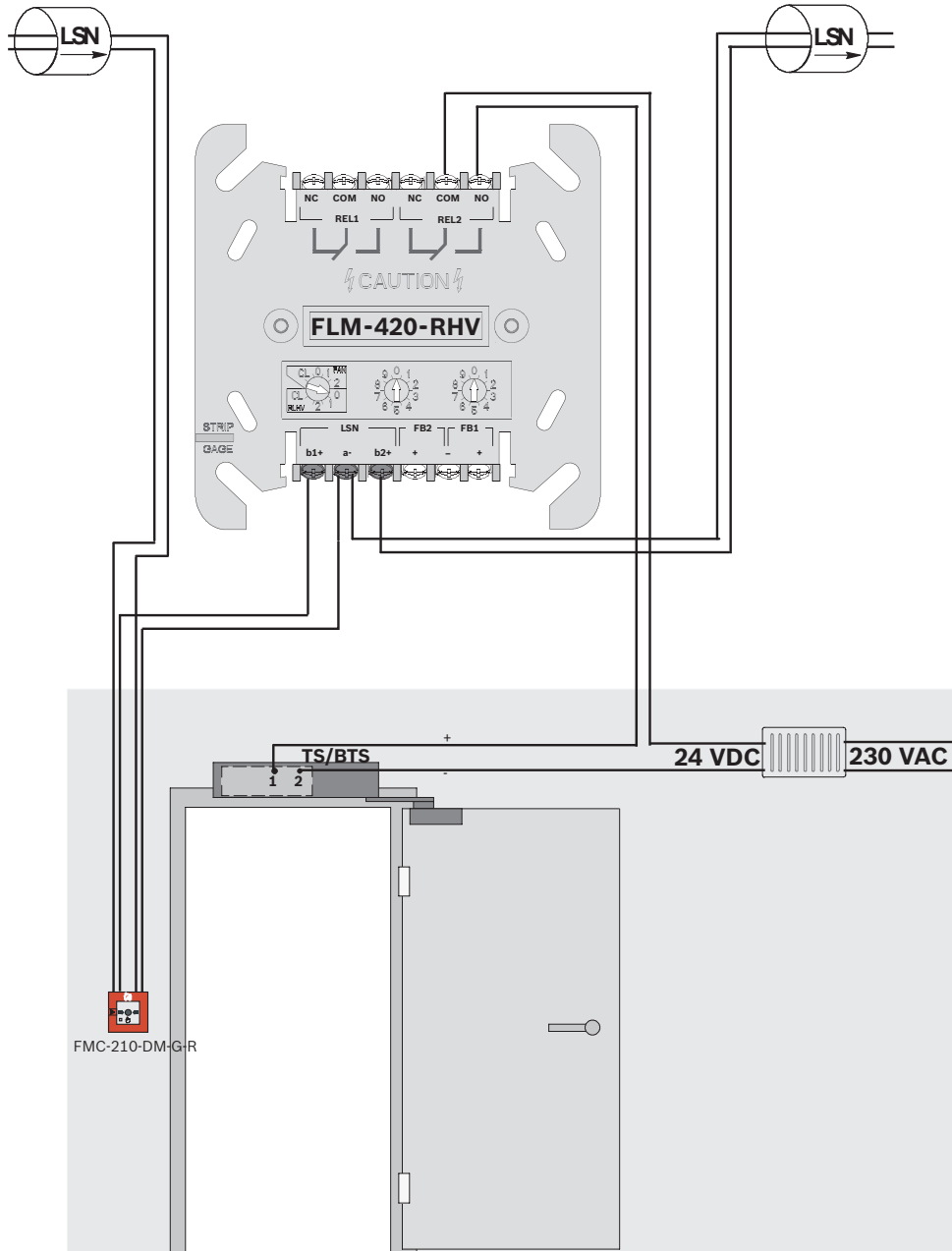
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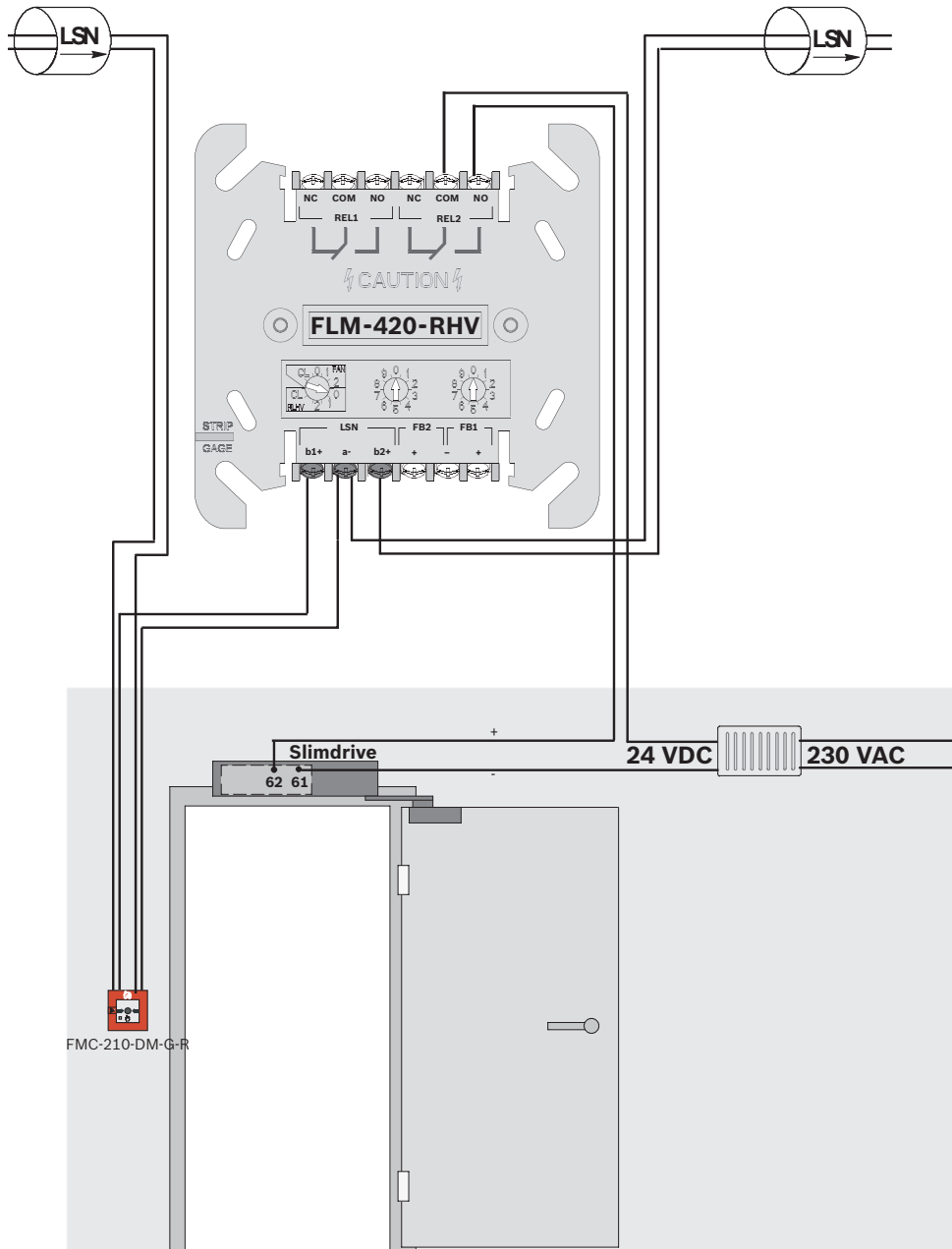
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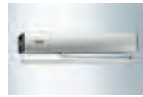
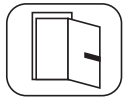




Slimdrive EMD-F/EMD F-IS

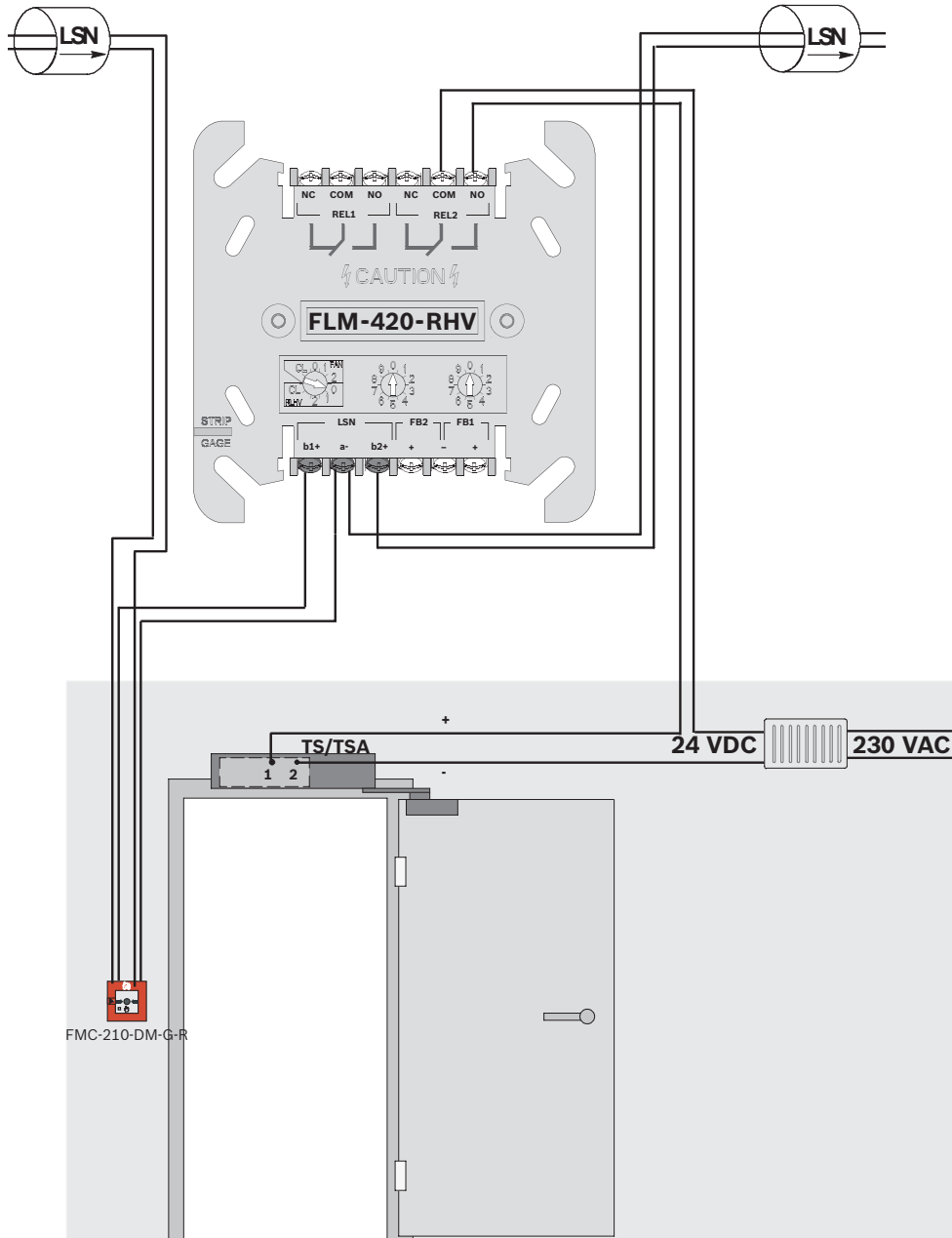
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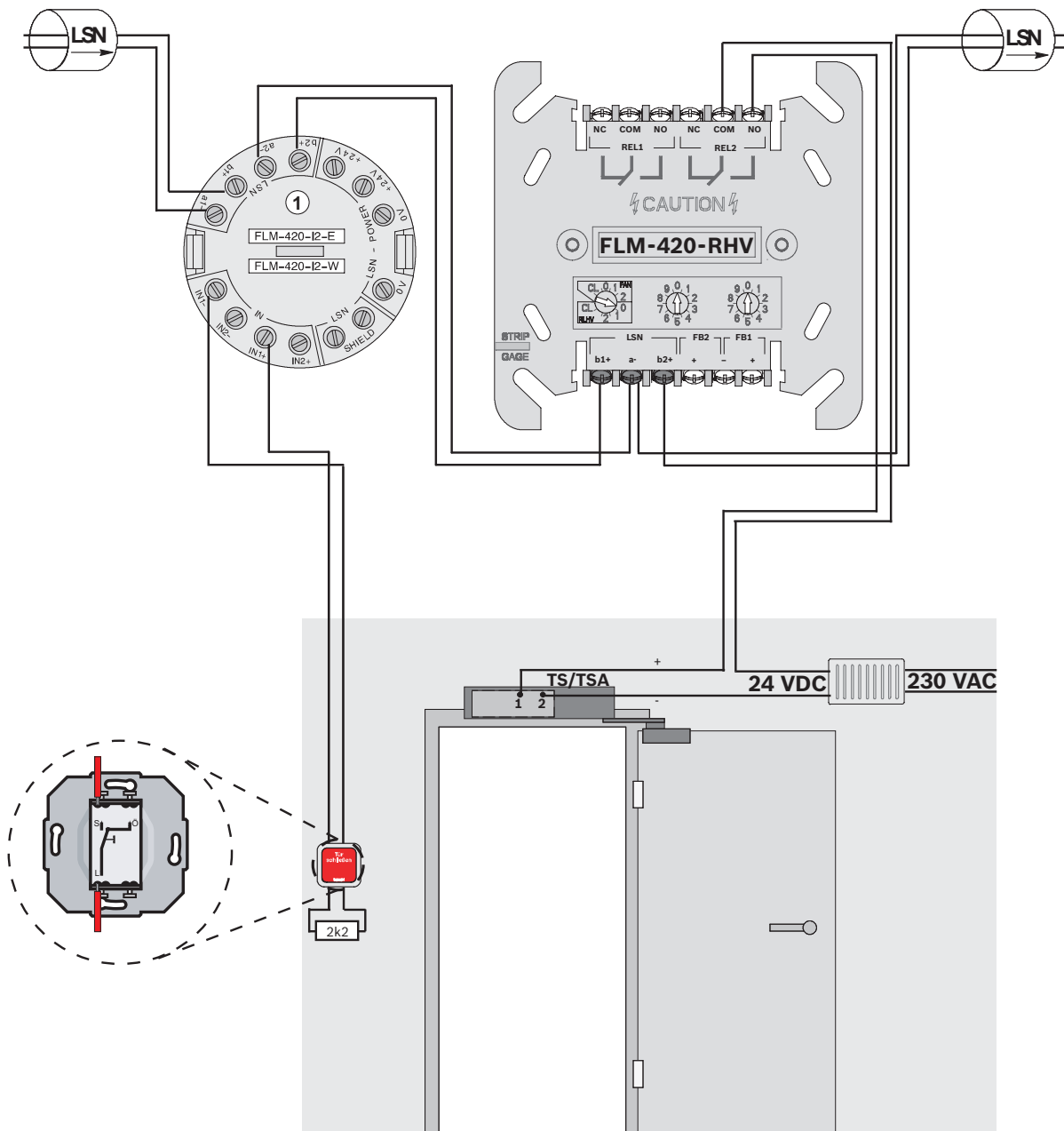
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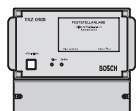




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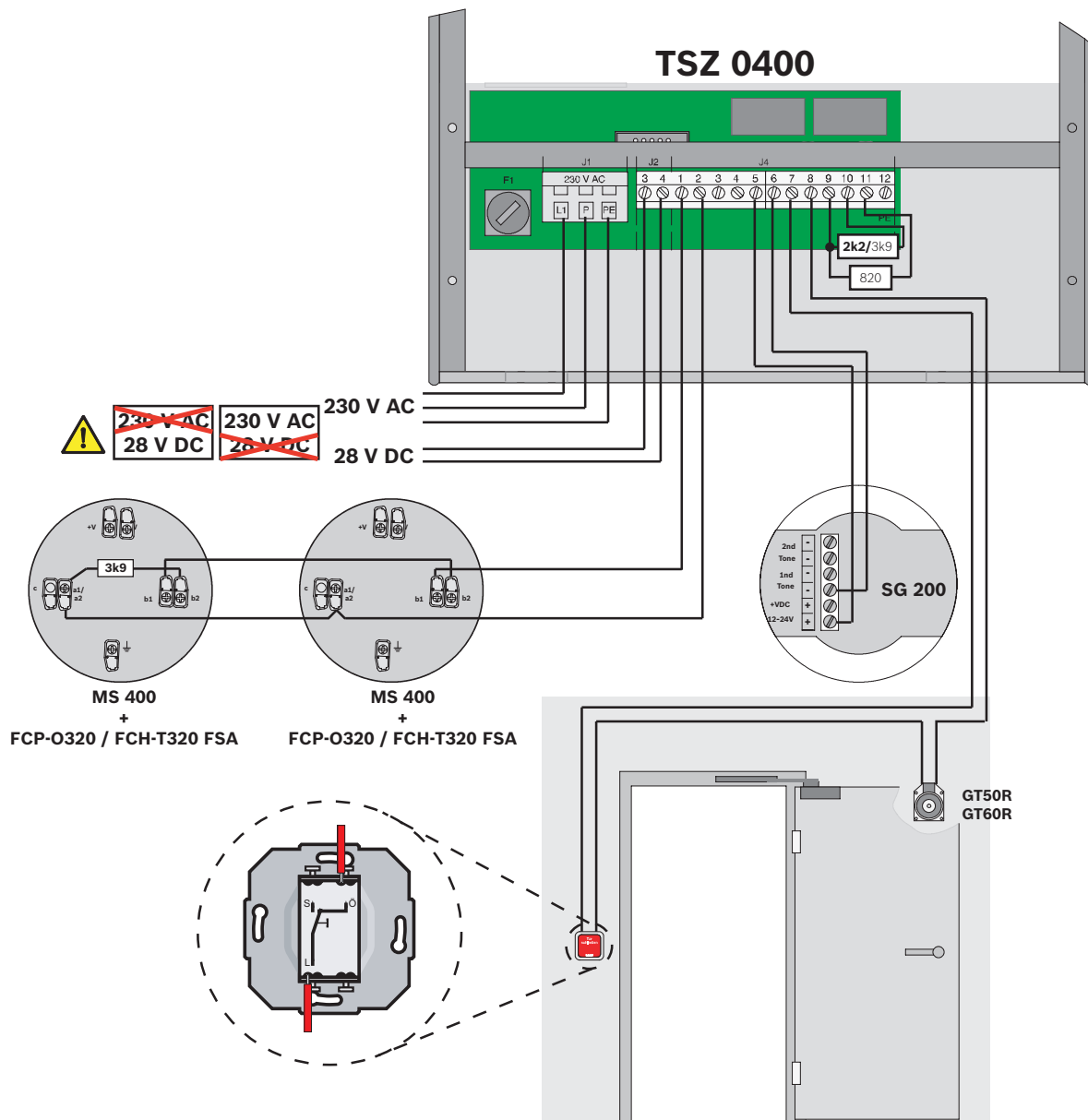
DIBT





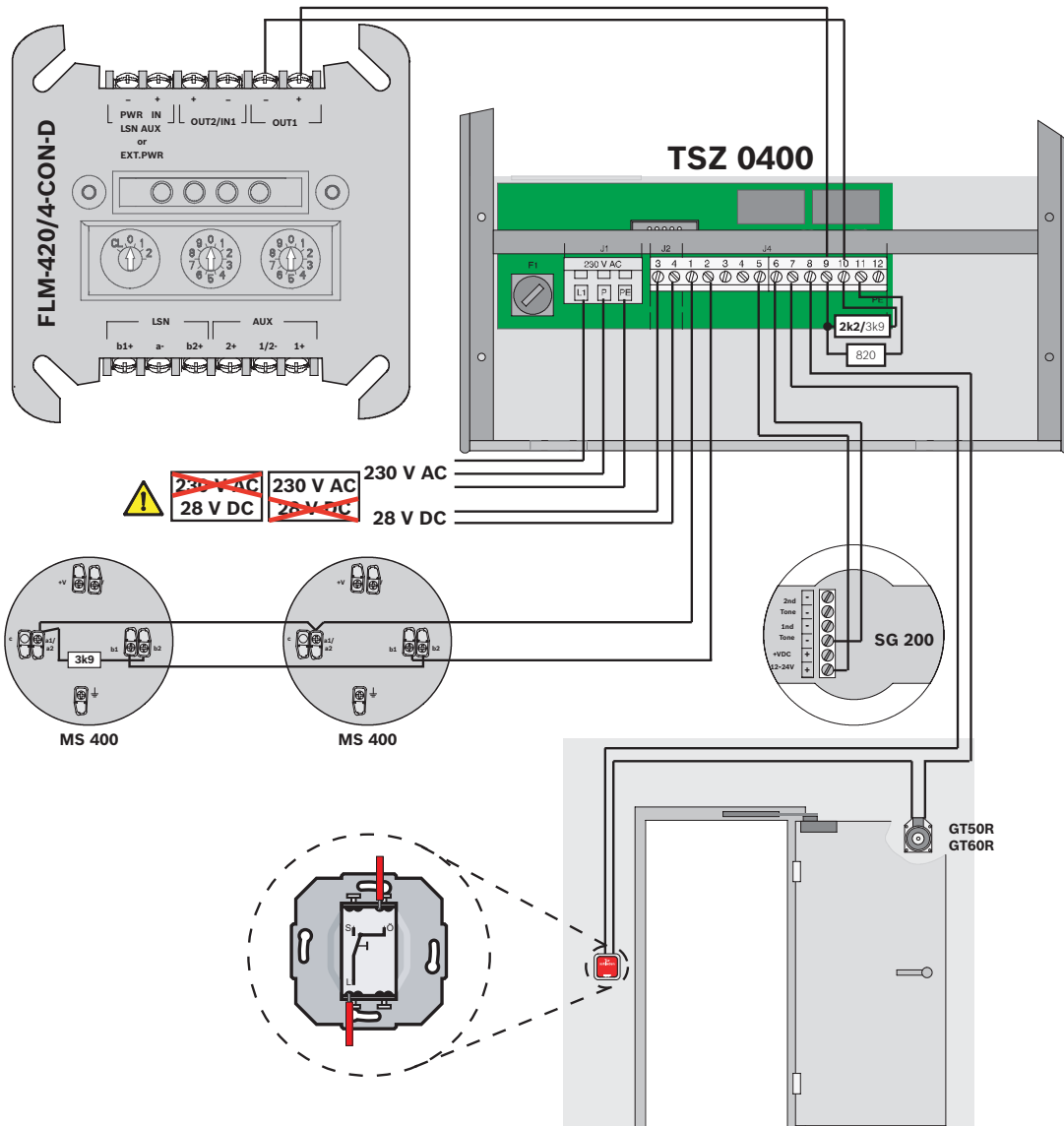
TSZ 0400

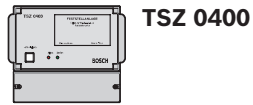
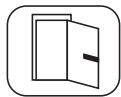
DIBT



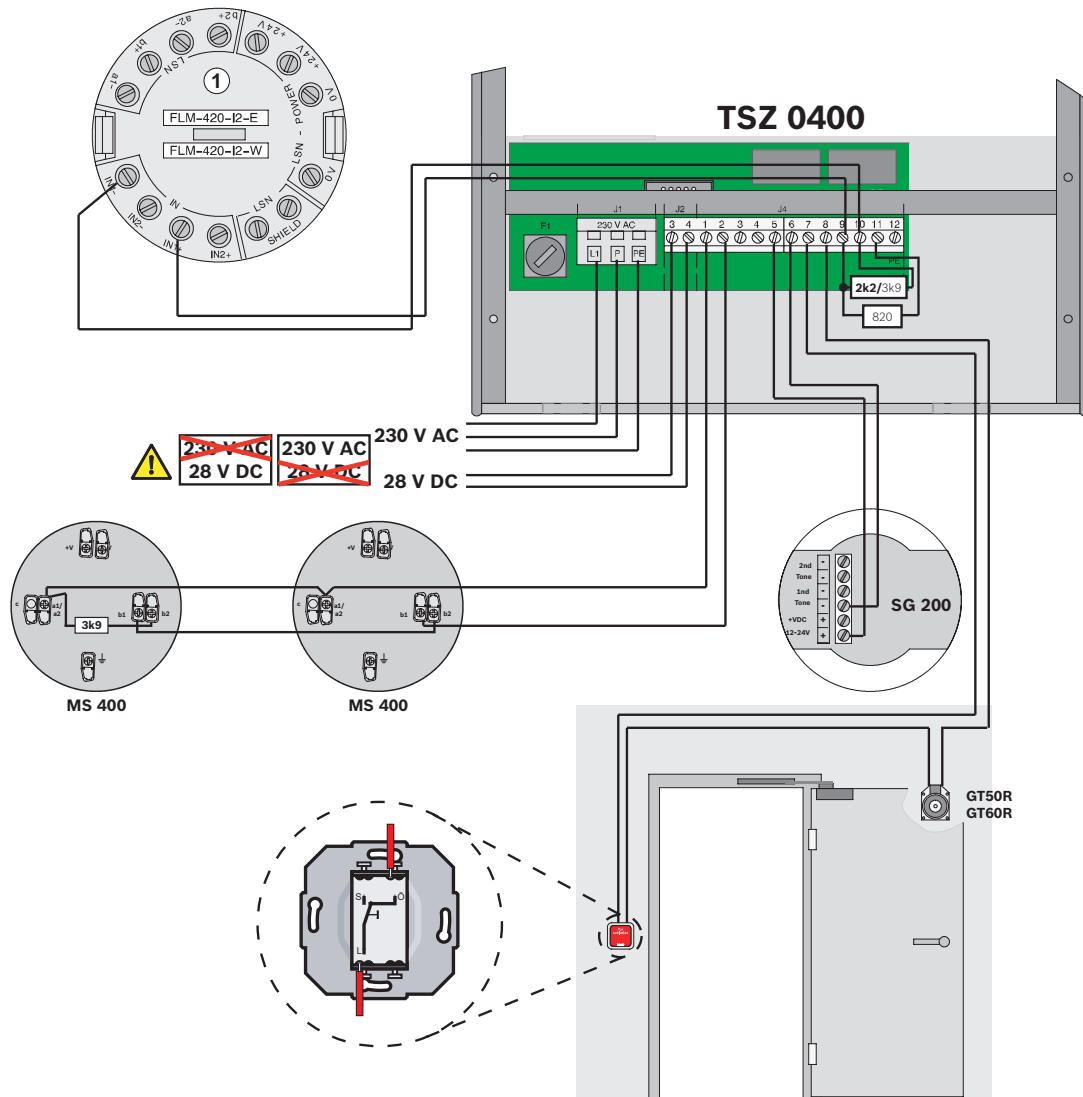


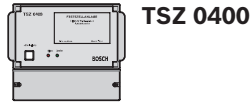
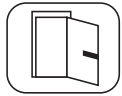
DIBT



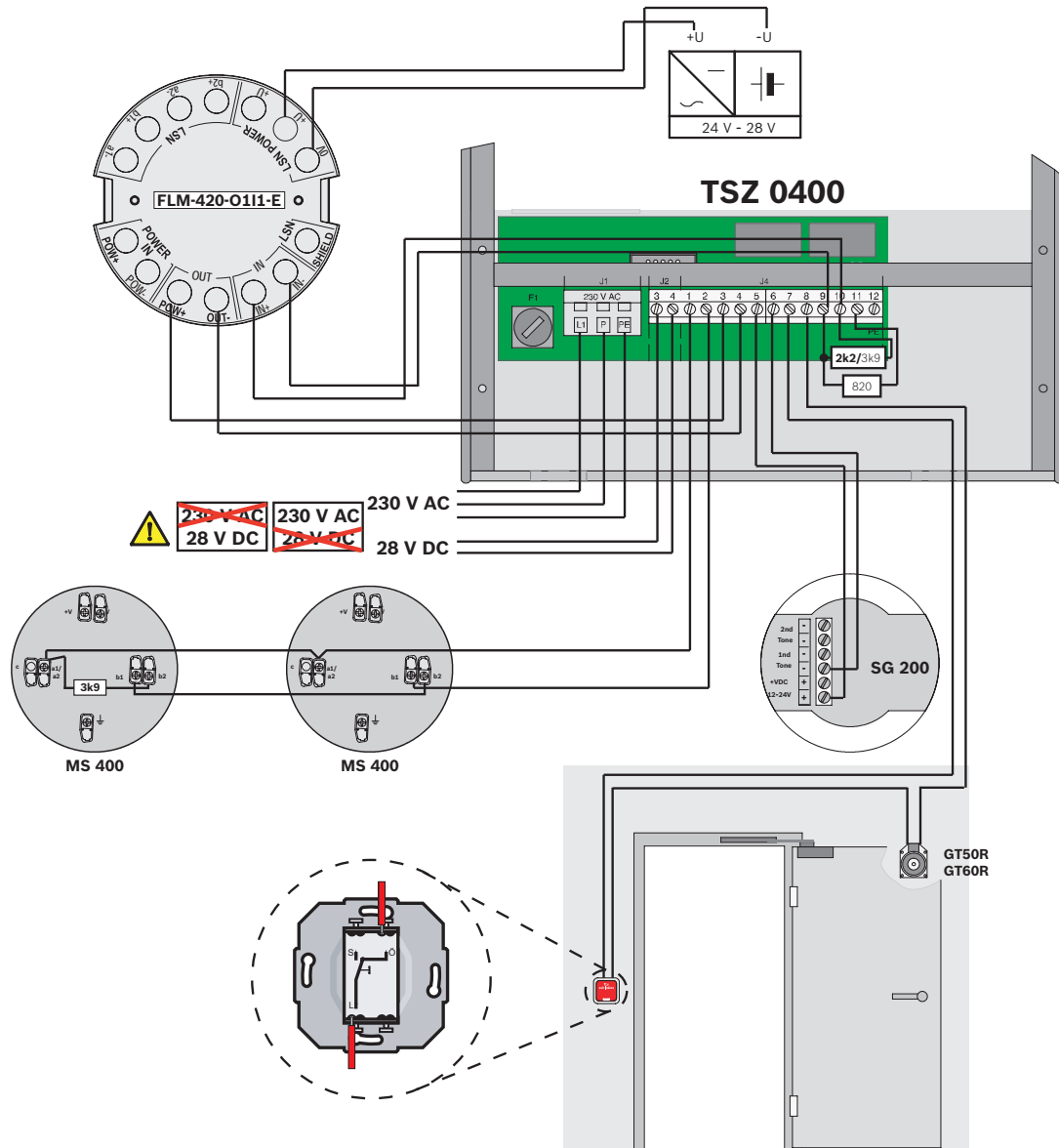


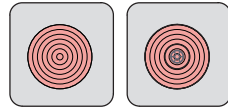
DIBT



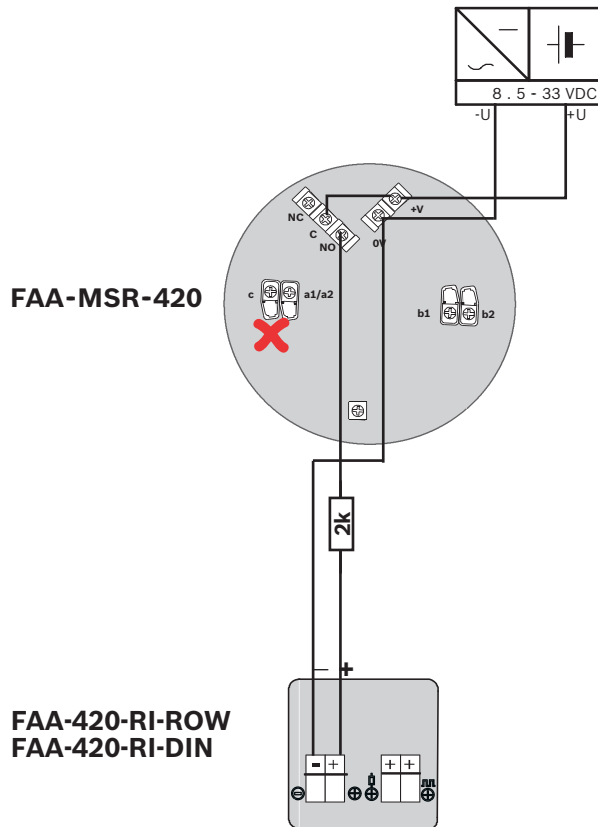
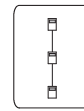


DIBT



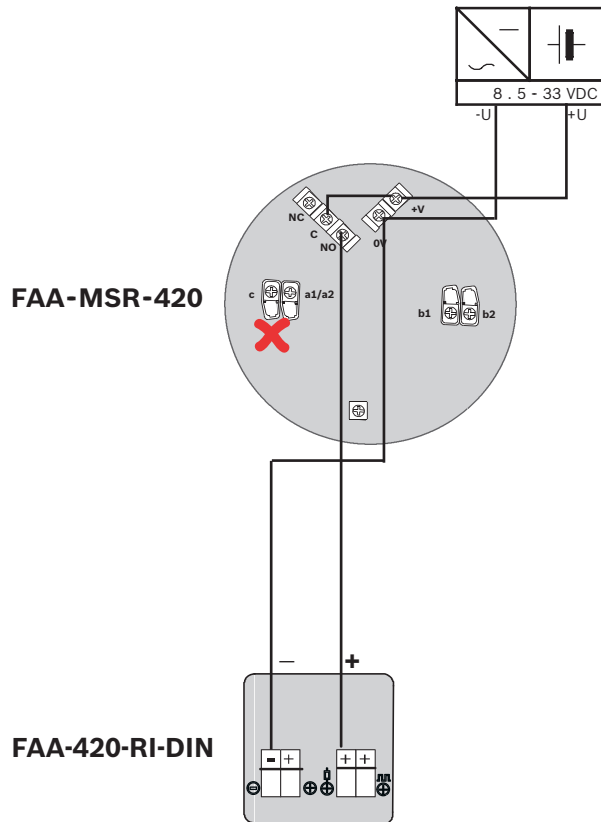
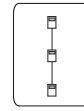


FAA-420-RI-ROW
FAA-420-RI-DIN



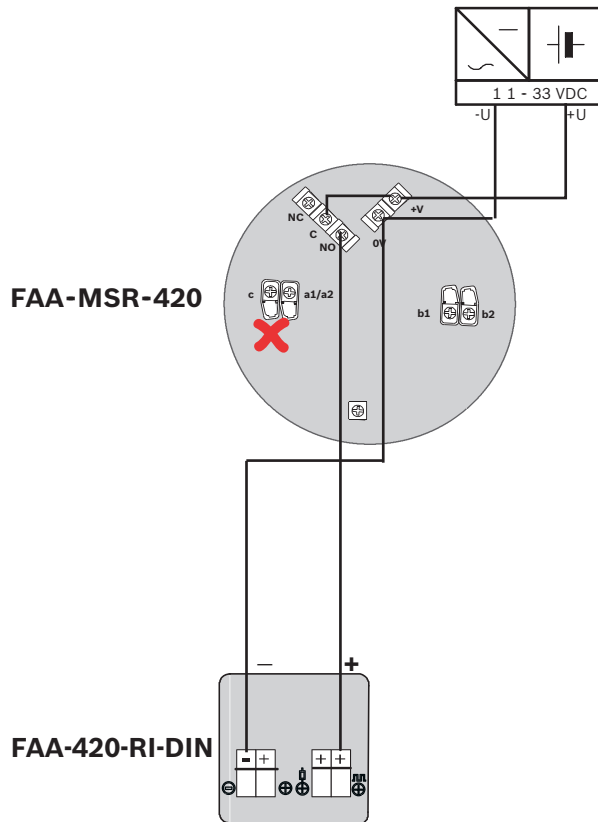
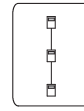


FAA-420-RI-DIN





FAA-420-RI-DIN



2.4 Modules fonctionnels



BCM-000-B, page 43

CZM 0004 A, page 45

ENO 0000 A/B, page 61

LSN 0300 A, page 68

NZM 0002 A, page 106

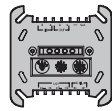
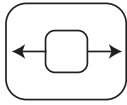
RMH 0002 A, page 119

IOS 0020 A, page 120

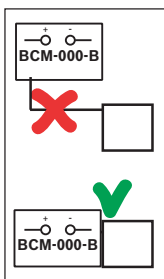
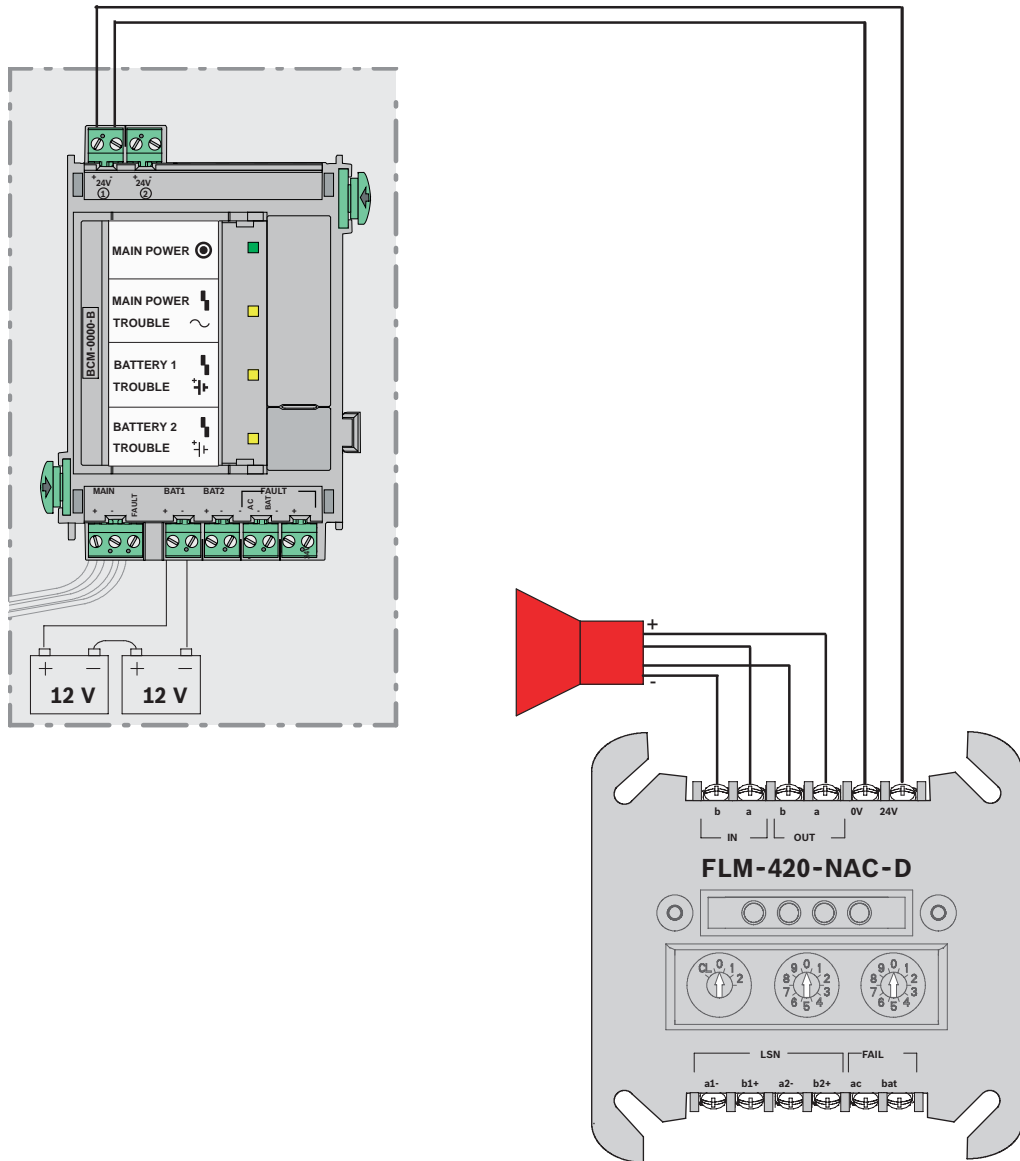
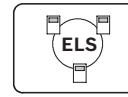
FPE-5000-UGM, page 122

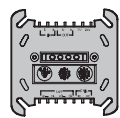
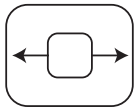
2.4.1

BCM-000-B

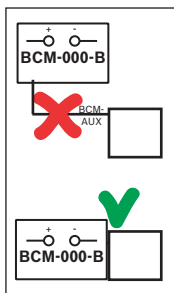
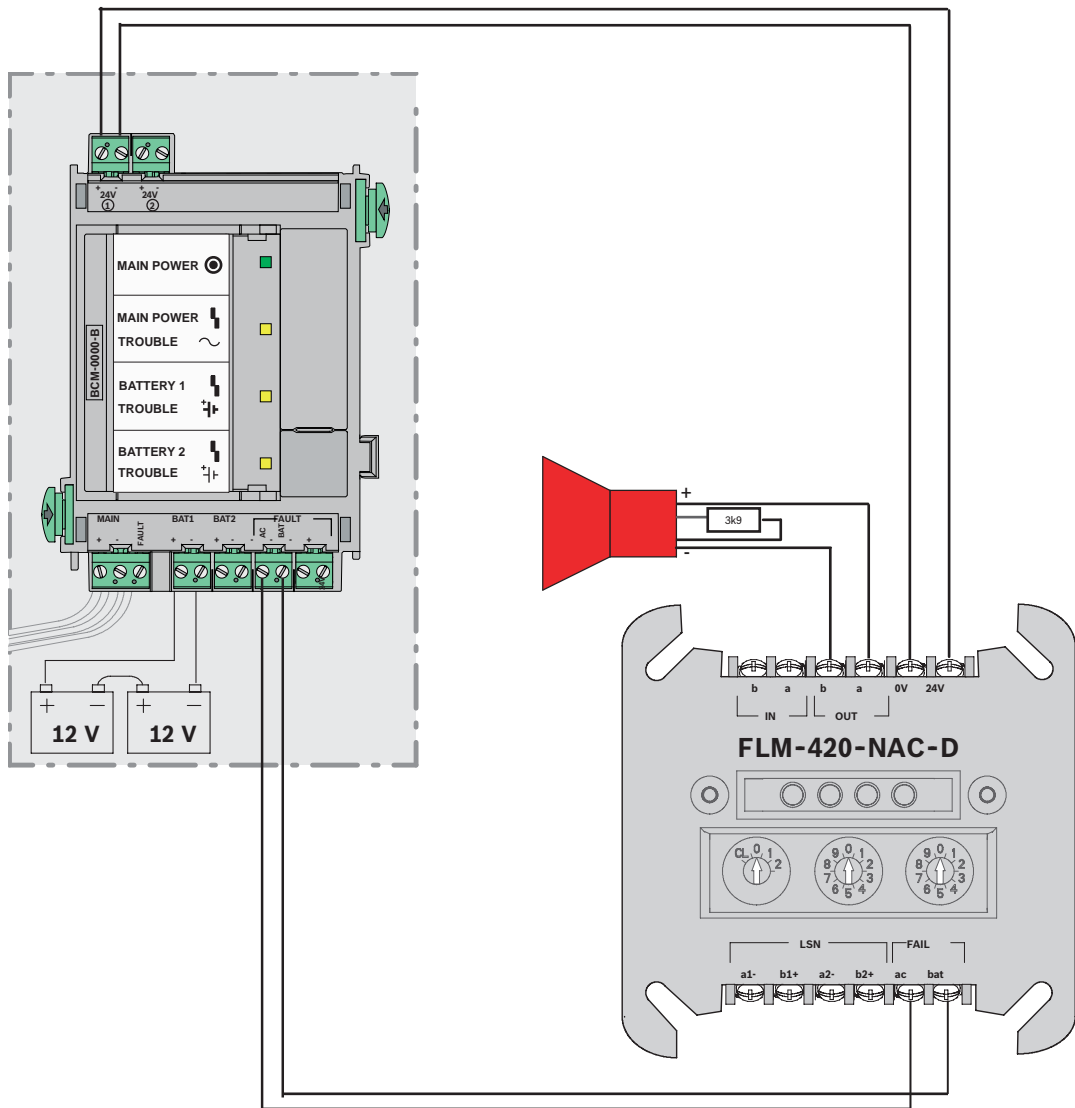
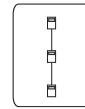


FLM-420-NAC-D





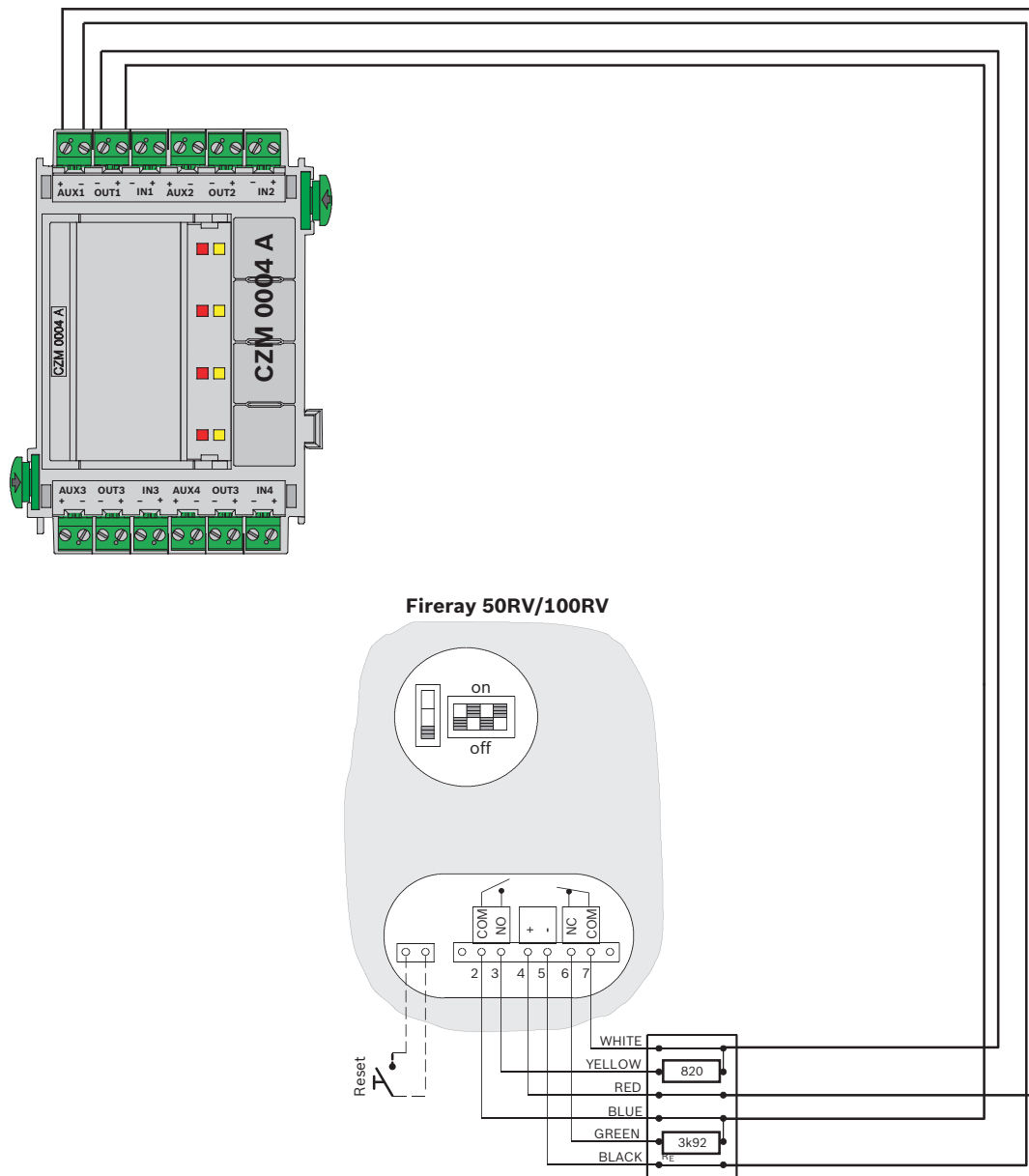
FLM-420-NAC-D



2.4.2 CZM 0004 A



Fireray 50RV
Fireray 100RV



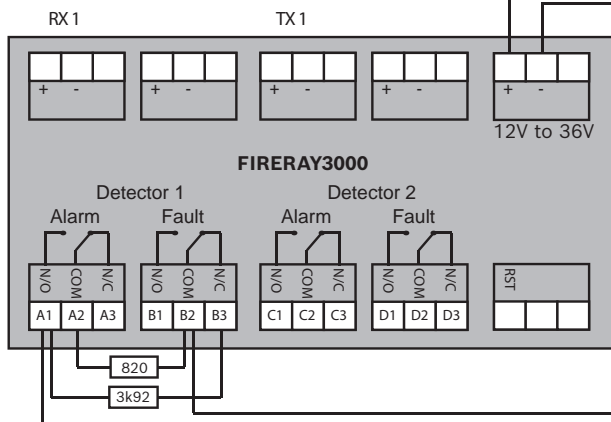
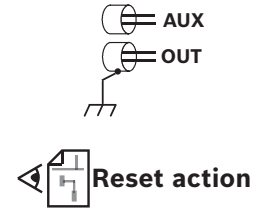
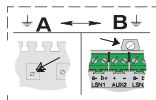
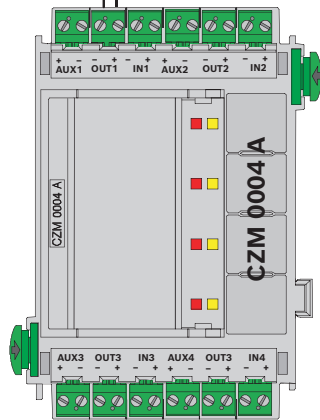


FIRERAY3000

1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A

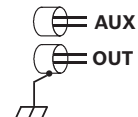
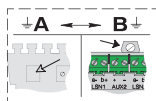
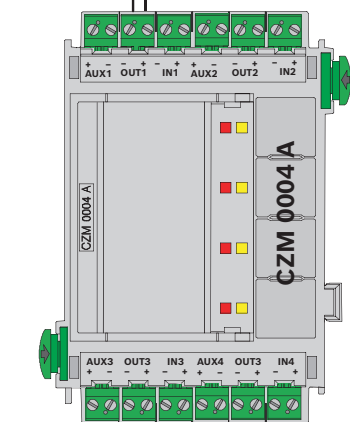




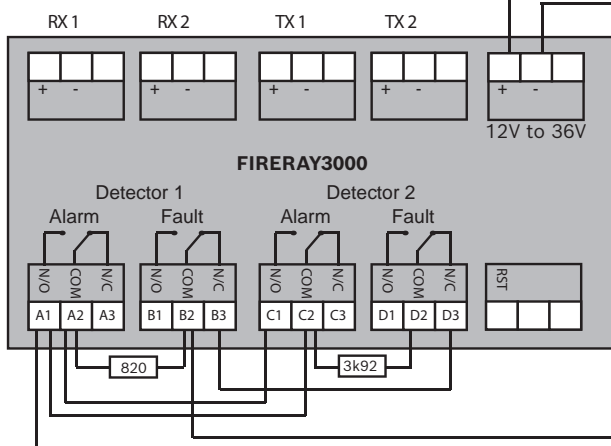
FIRERAY3000
2 x **OUT1**



BCM-000-B
LSN 0300 A
LSN 1500 A



Reset action

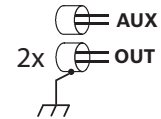
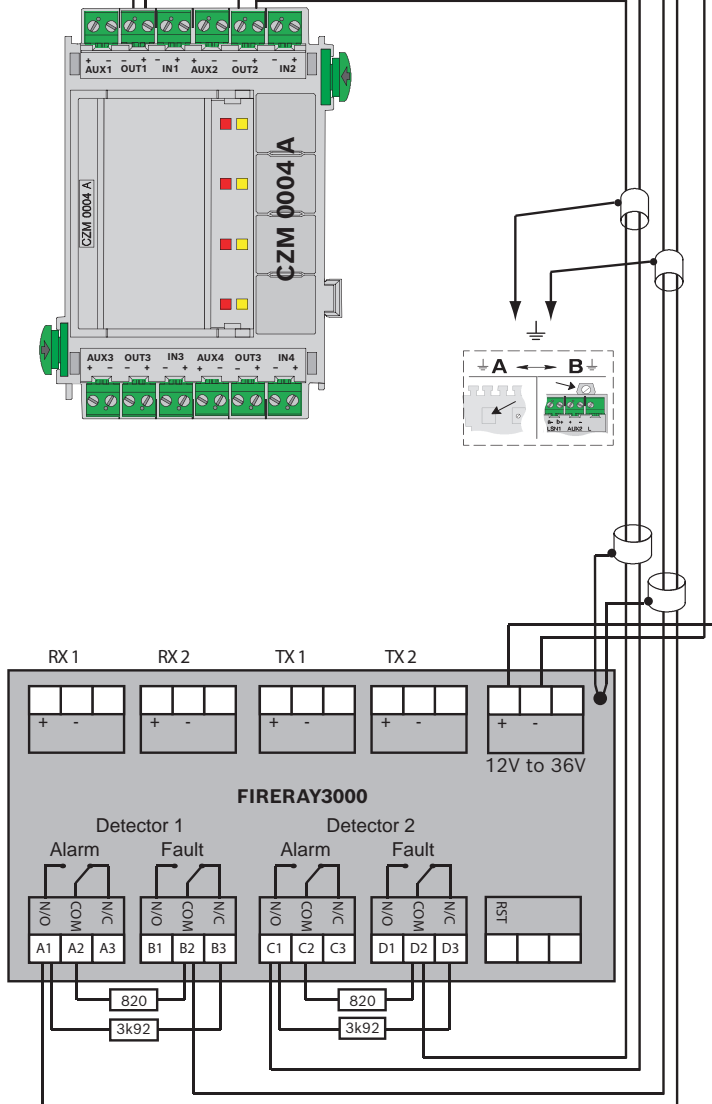




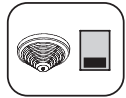
FIRERAY3000
2 x **OUT1+2**



BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

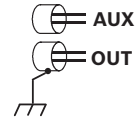
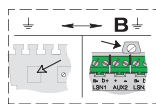
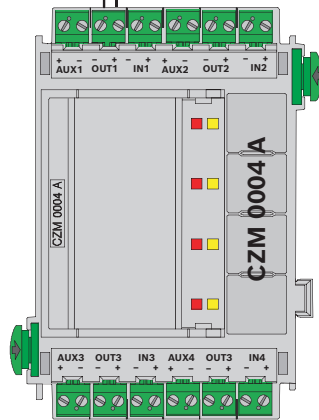


FIRERAY5000

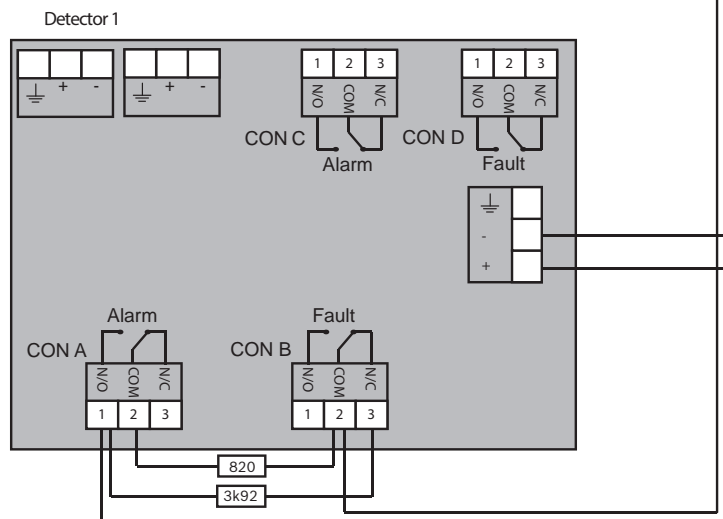
1 x



BCM-0000-B
LSN 0300 A
LSN 1500 A



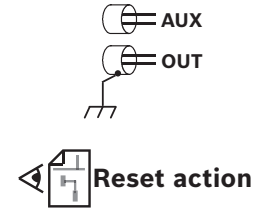
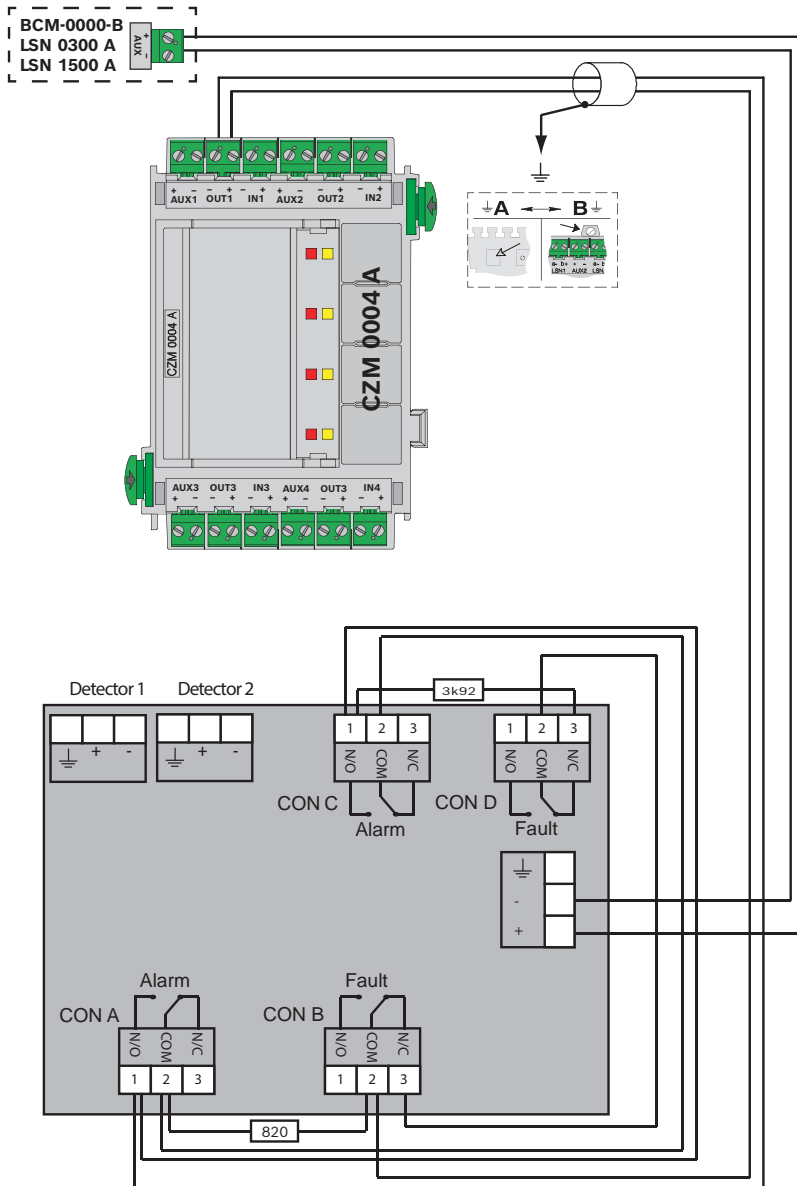
Reset action

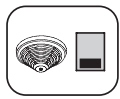




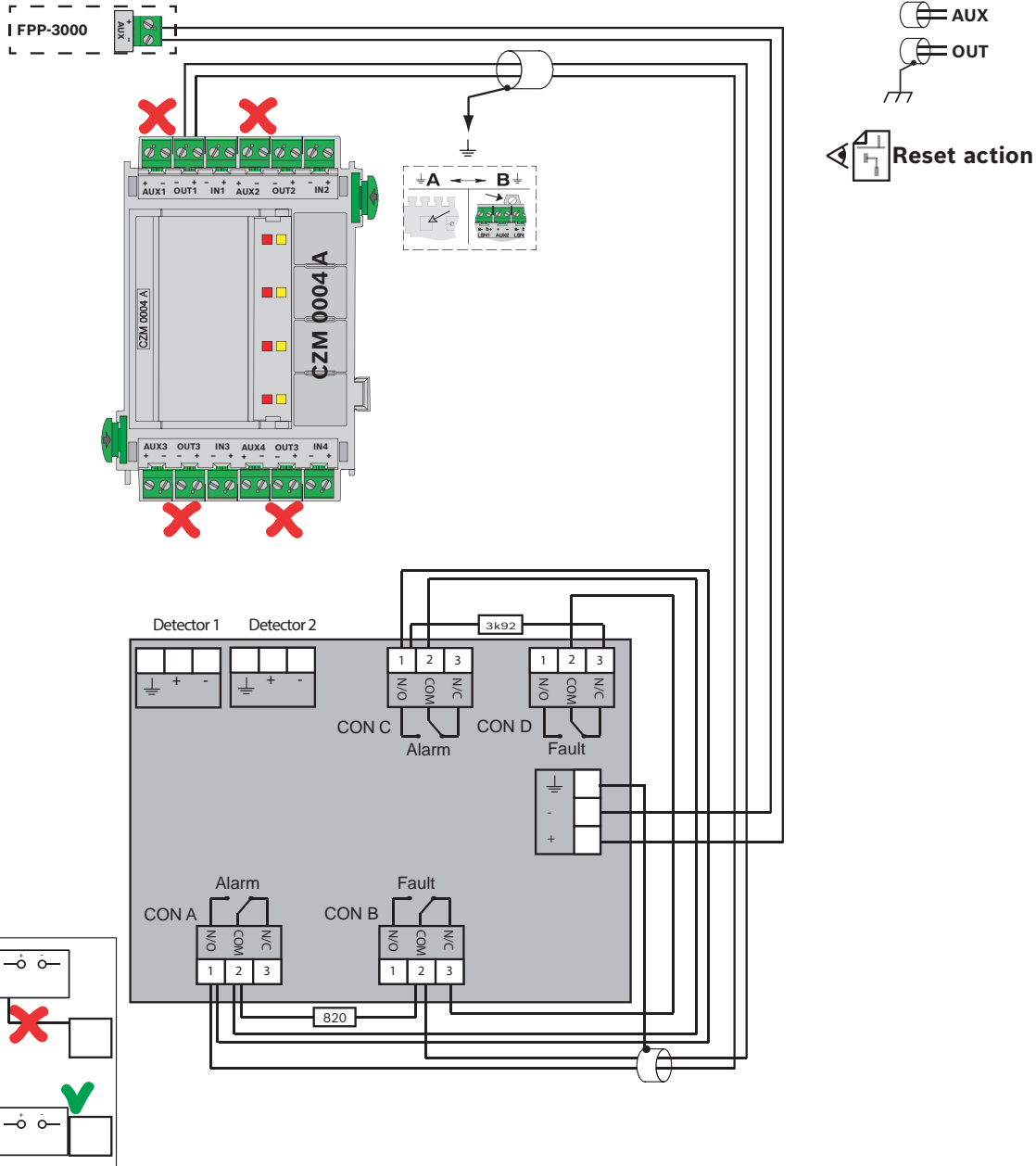
FIRERAY5000

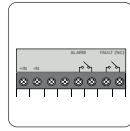
2 x OUT1



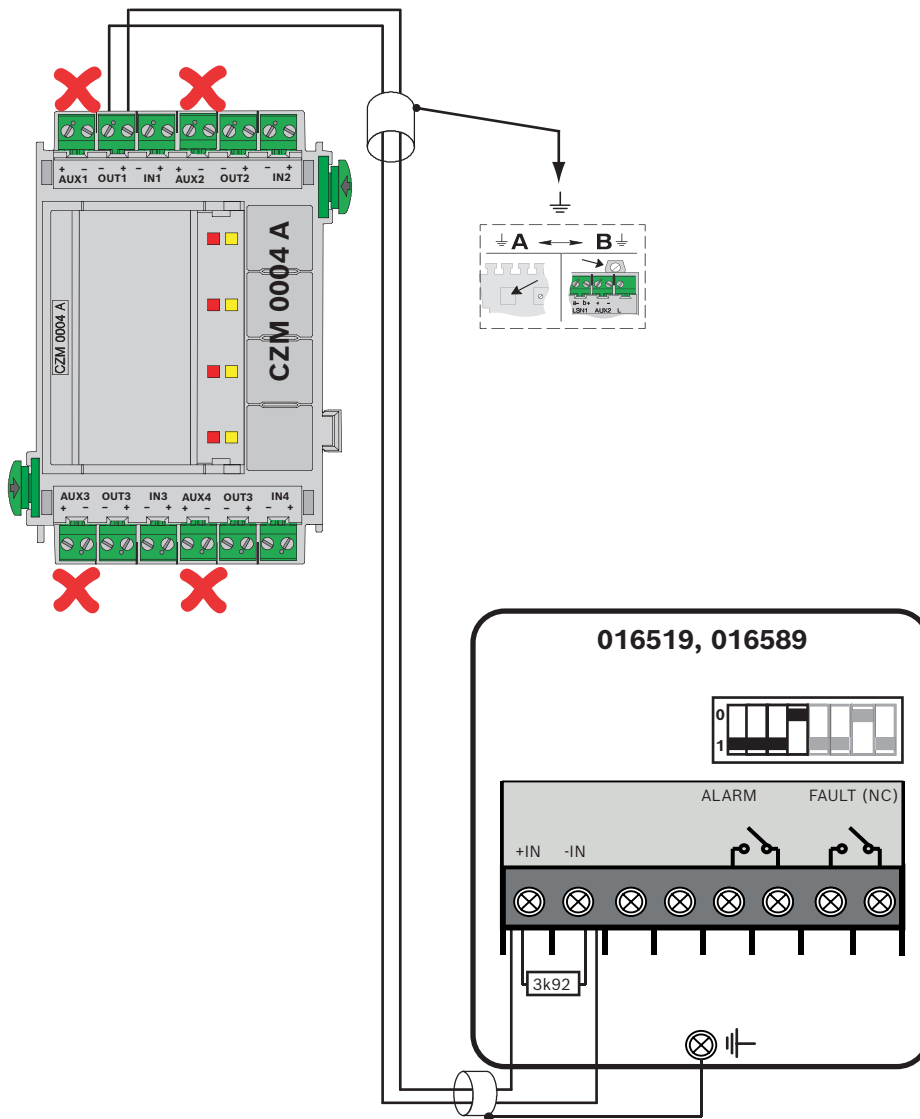
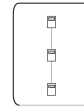


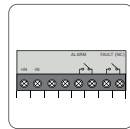
FIRERAY5000
2 x  **OUT1**



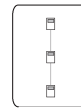


**016519, 016589
IR3 Flame Detector**

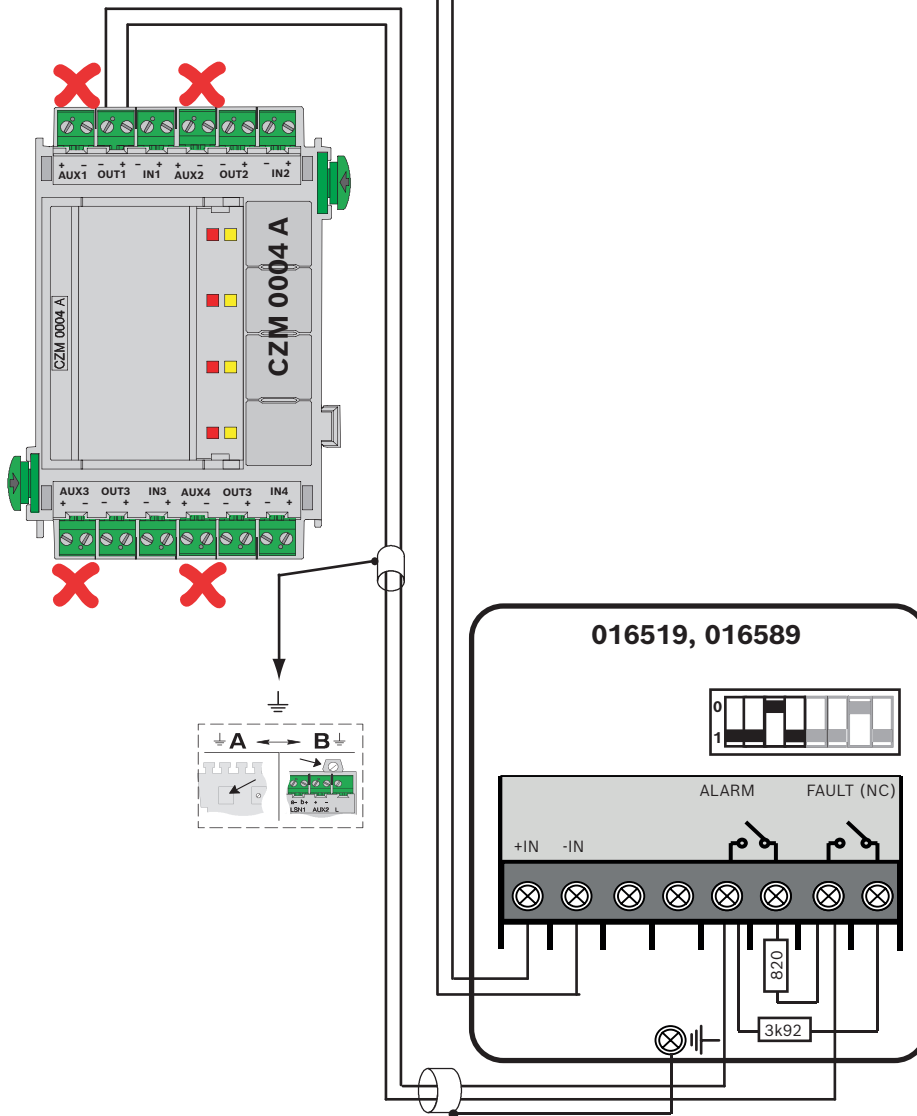
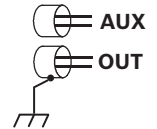


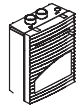


016519, 016589
IR3 Flame Detector

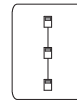


BCM-0000-B
LSN 0300 A
LSN 1500 A

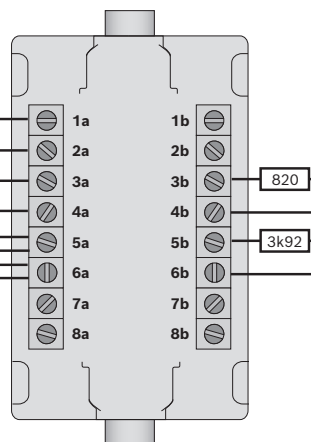
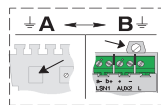
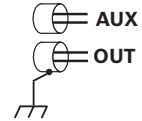
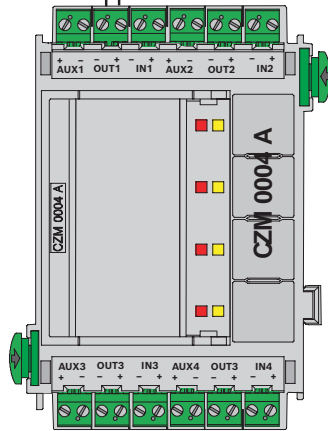


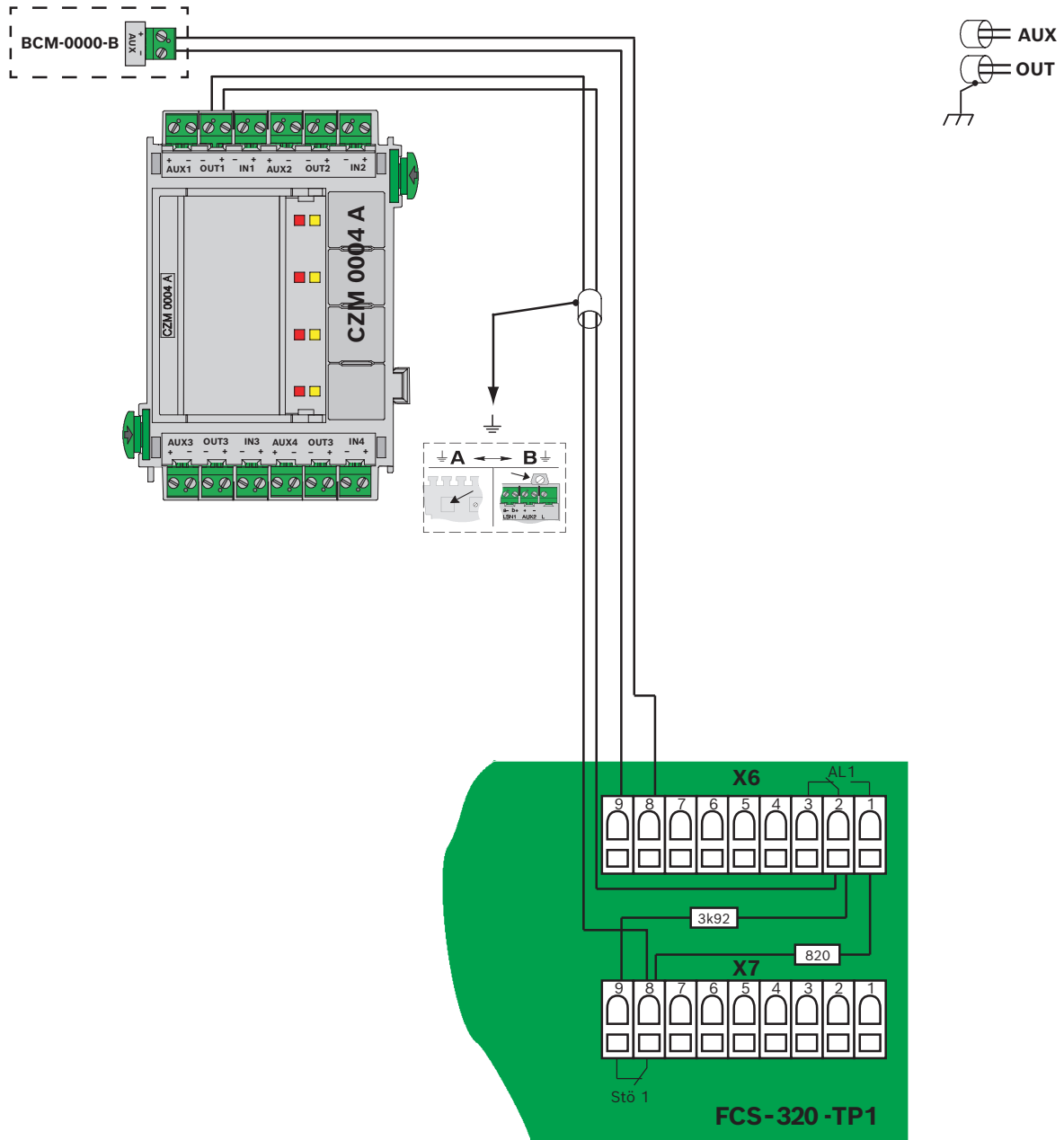
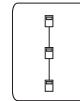
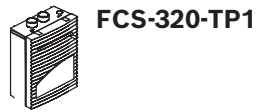


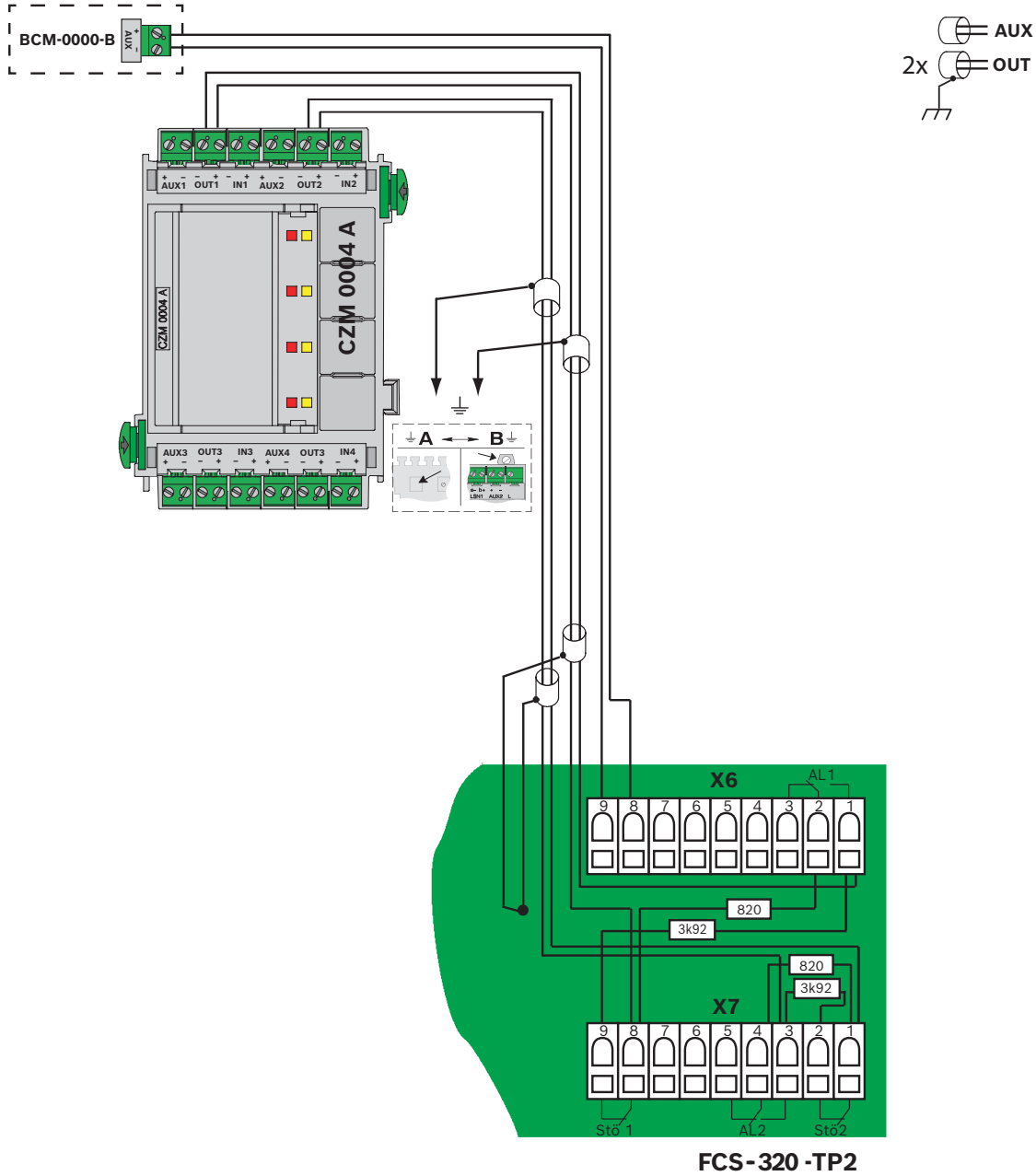
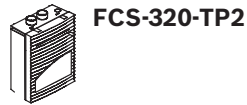
FCS-320-TM Series



BCM-0000-B
LSN 0300 A
LSN 1500 A

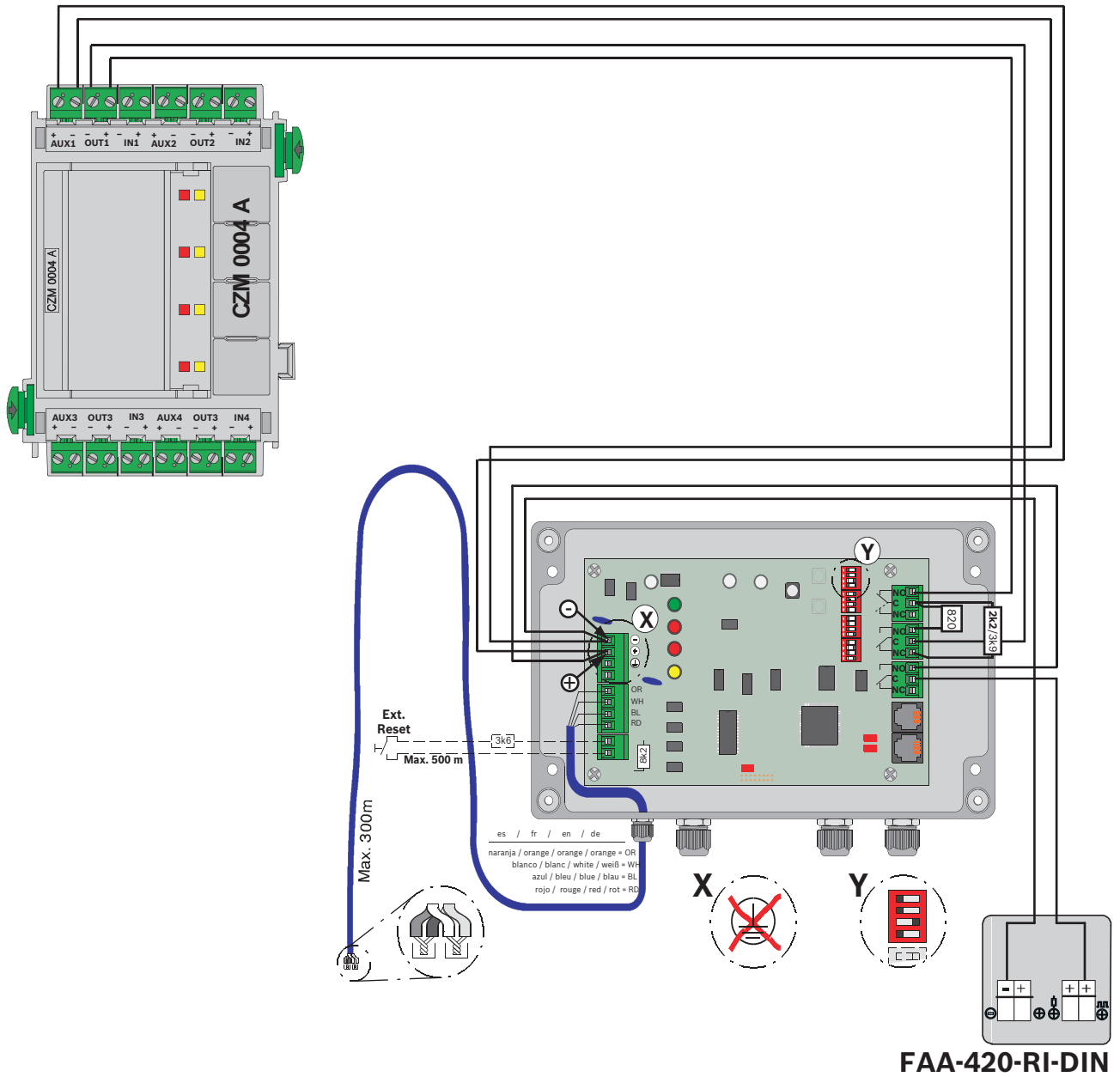






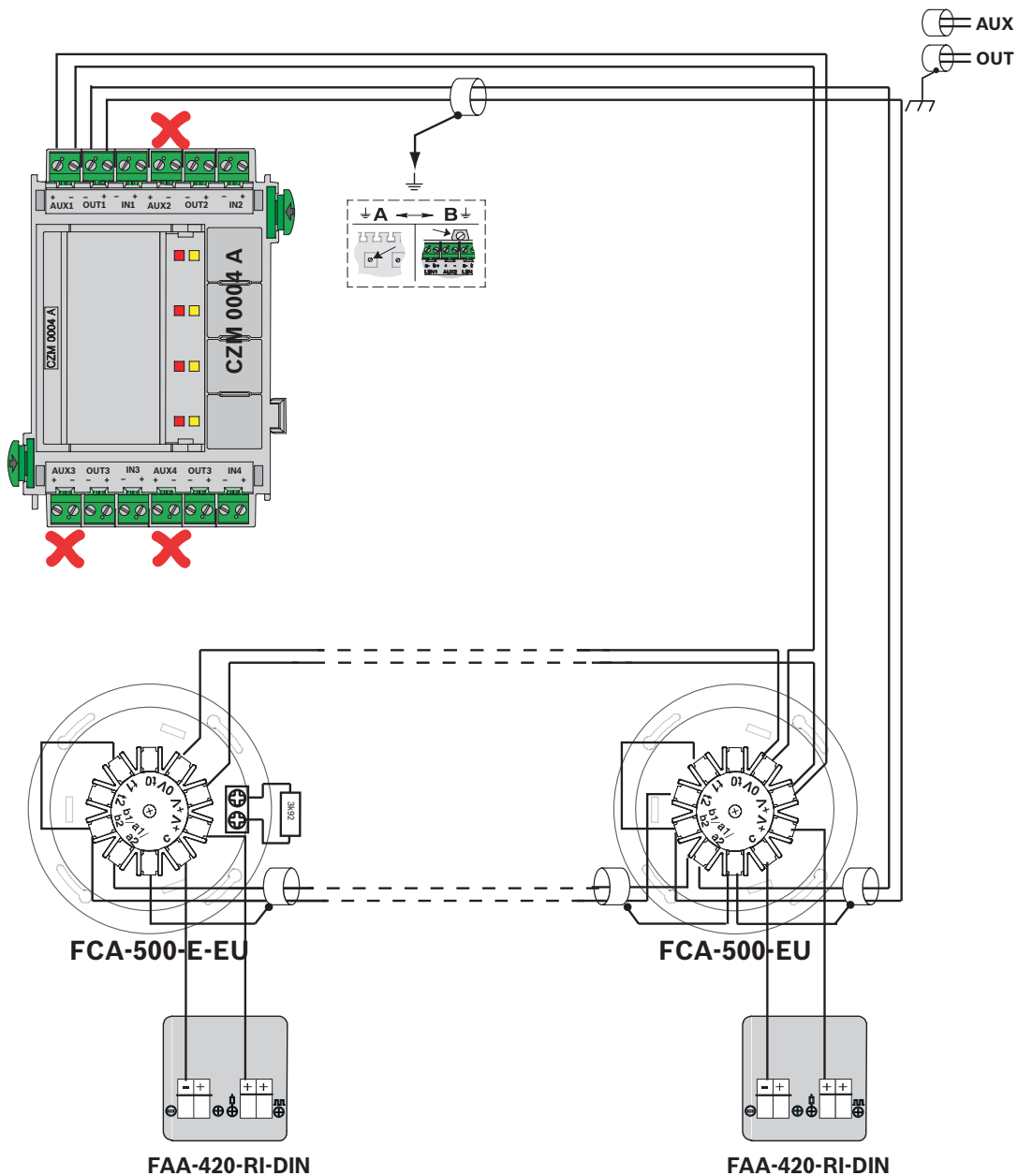


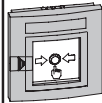
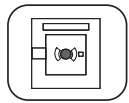
FCS-LWM-1



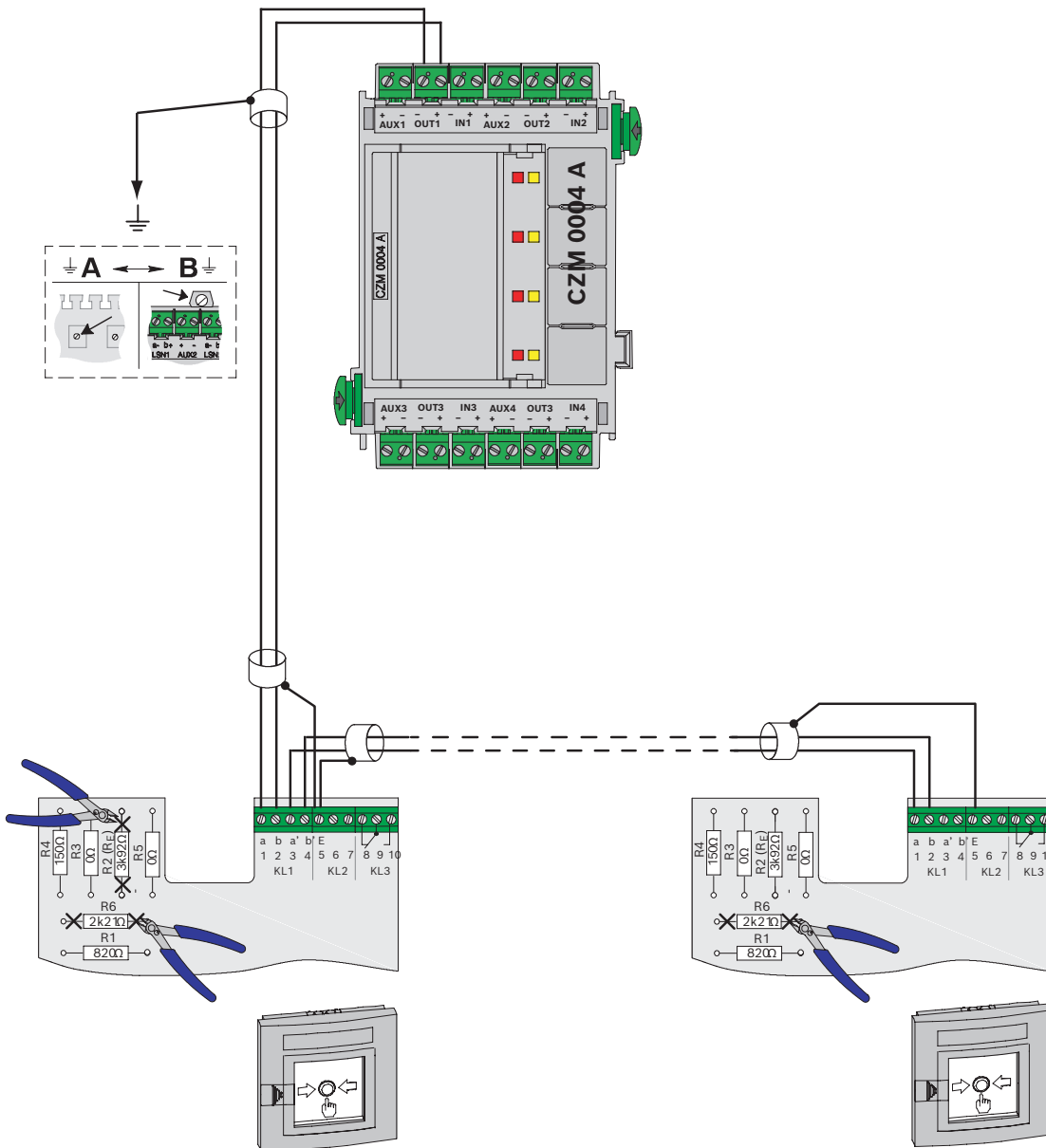
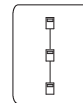


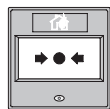
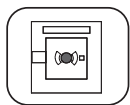
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 FCP-O 500
 FCP-O 500-P
 FCP-OC 500
 FCP-OC 500-P



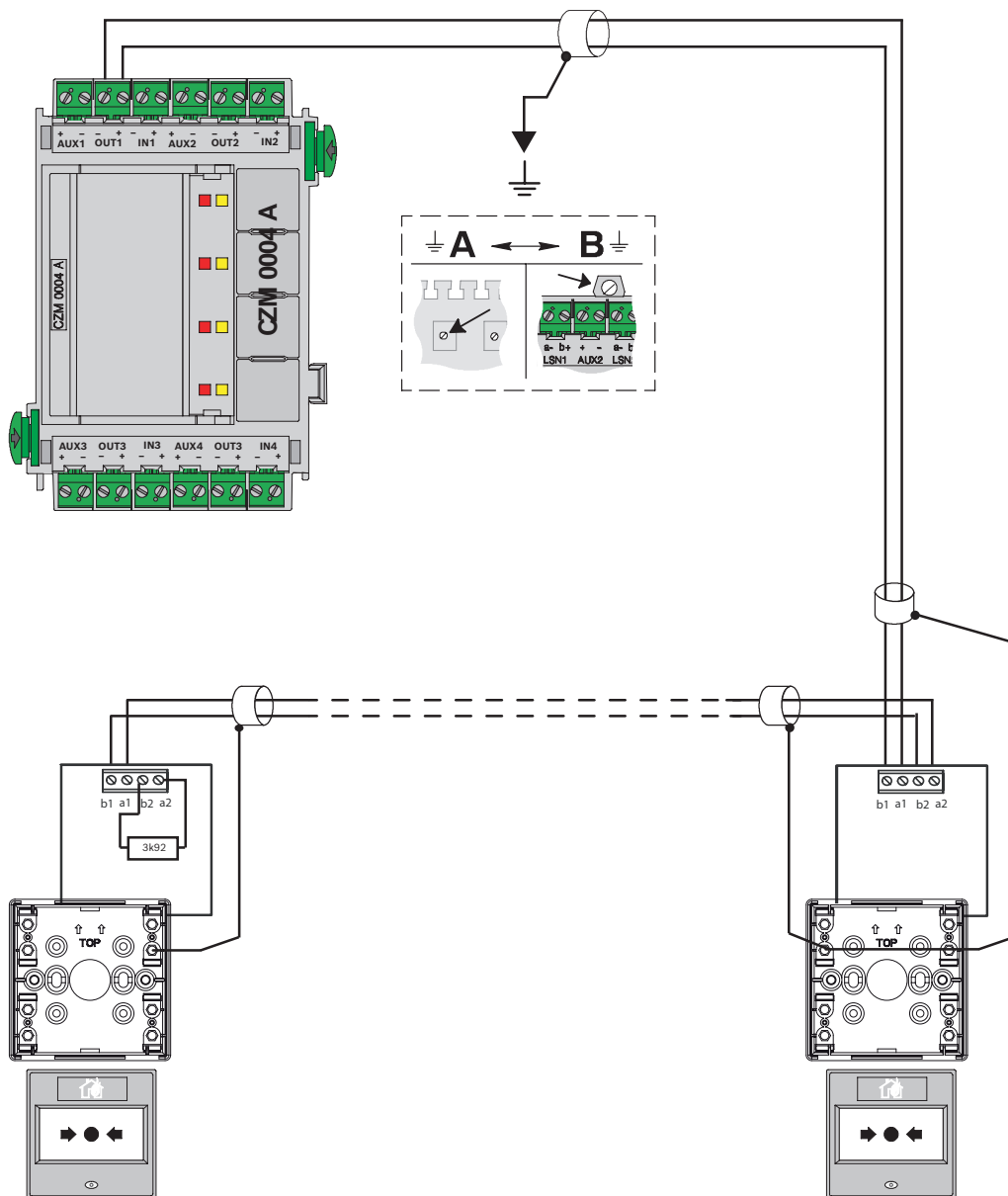
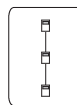


FMC-120-DKM-G-R
FMC-120-DKM-H-R
FMC-120-DKM-G-B
FMC-120-DKM-H-B
FMC-120-DKM-G-Y





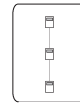
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FMC-300RW-GSRBU
FMC-300RW-GSGRD
FMC-300RW-GSRRD
FMC-300RW-GSGYE
FMC-300RW-GSRYE



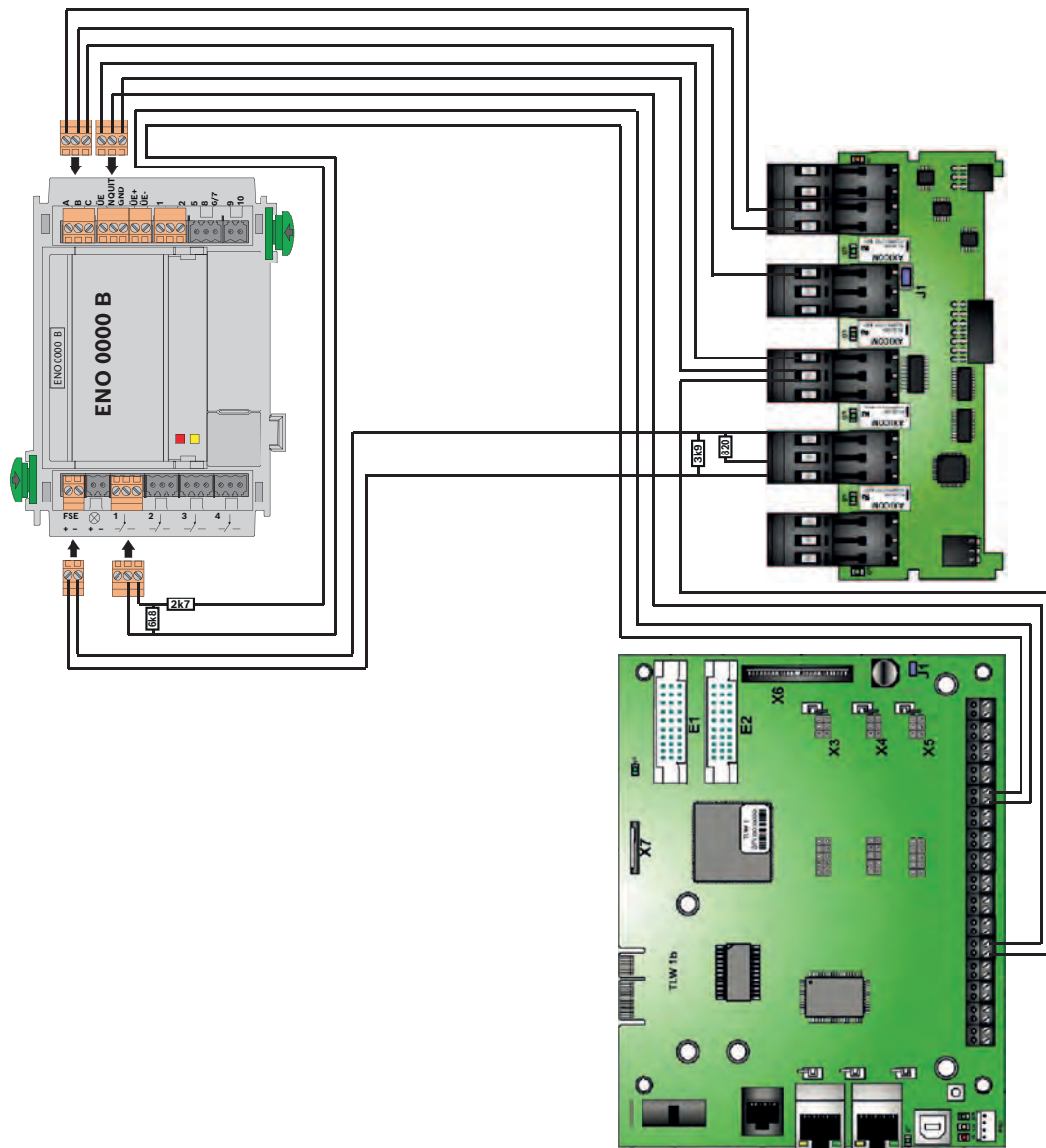
2.4.3 ENO 0000 A/B

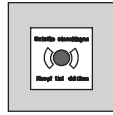
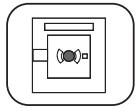


AT5000 IP/GPRS

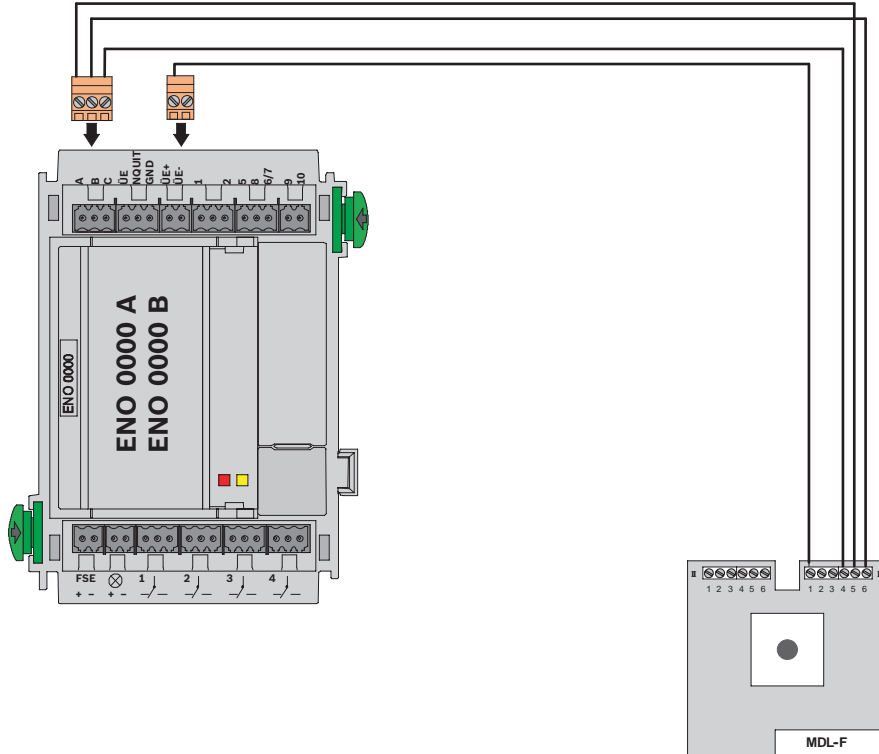


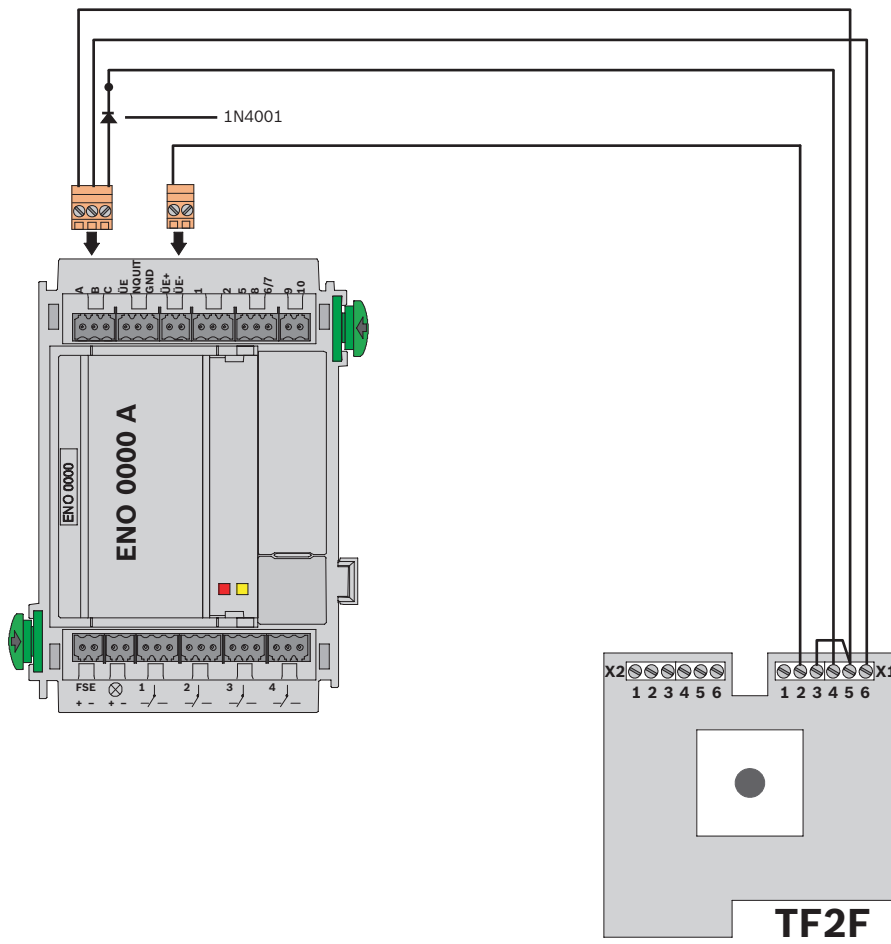
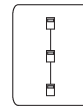
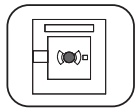
EN 54-2

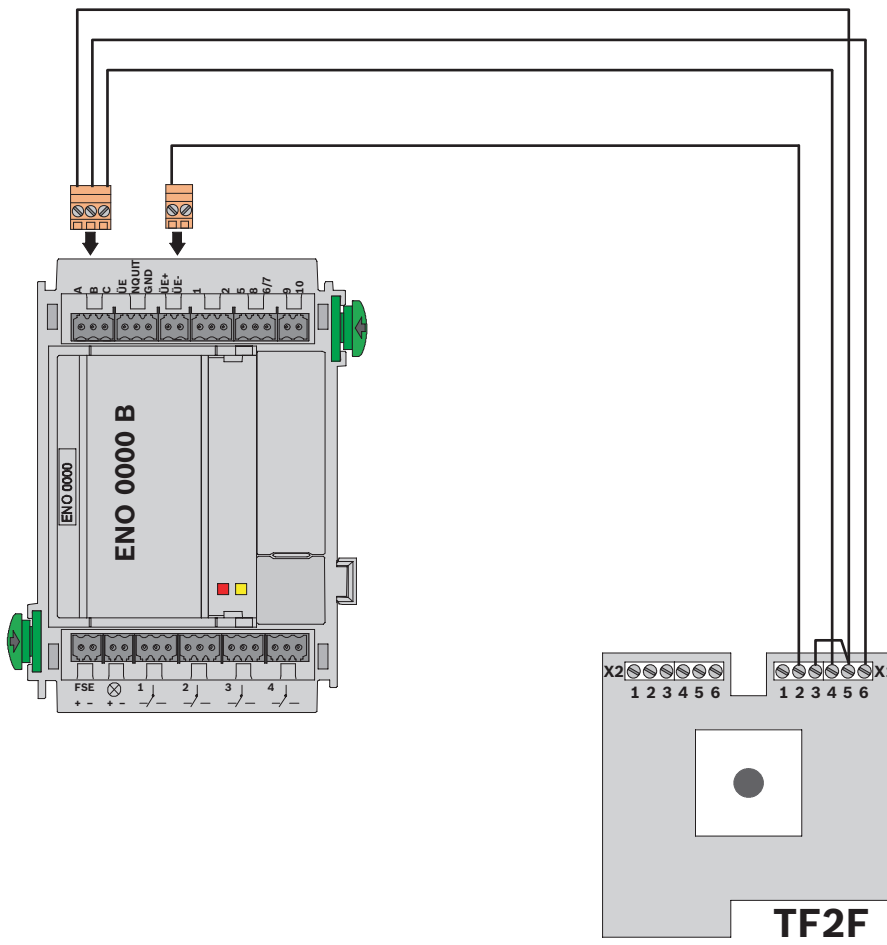
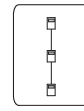
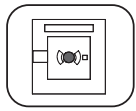


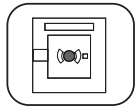


MDL-F

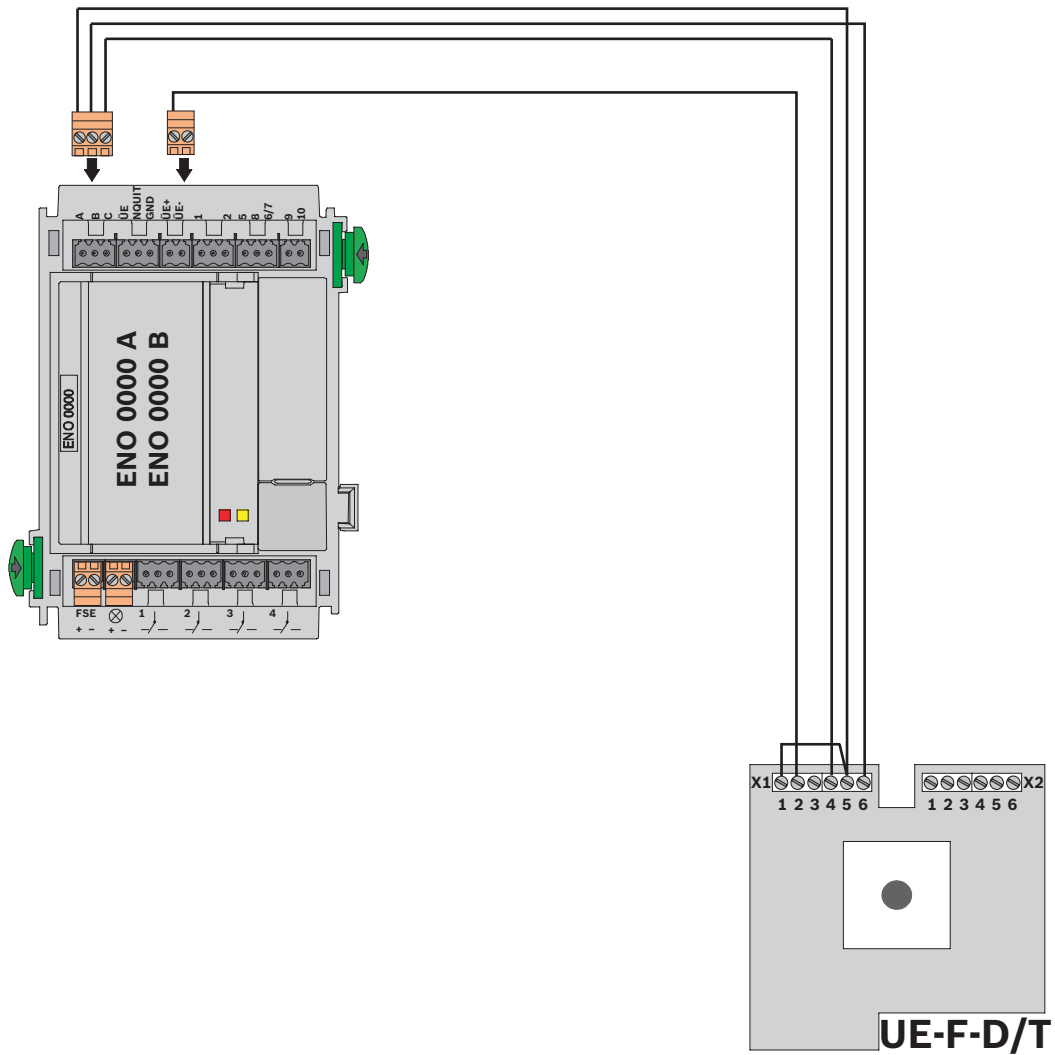


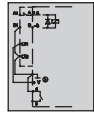




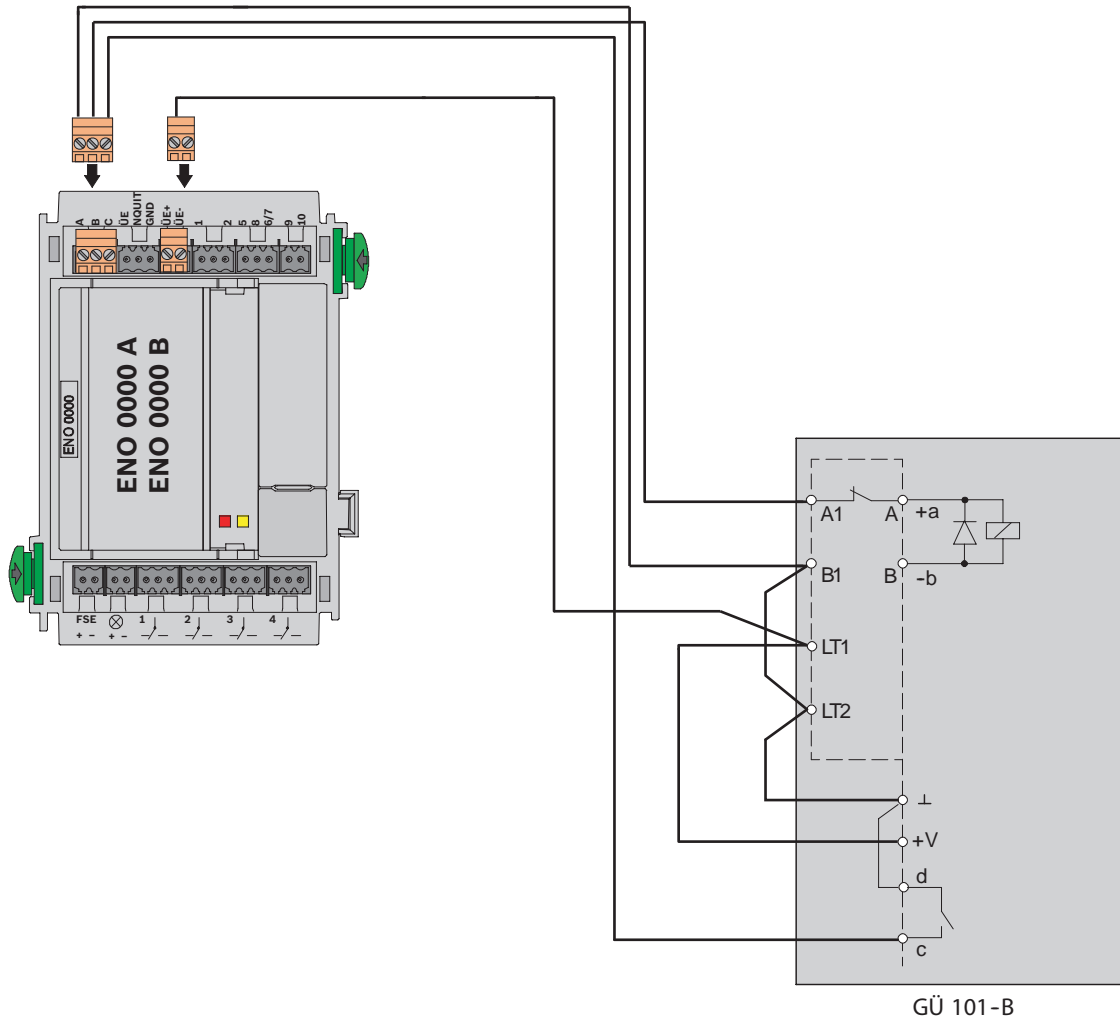
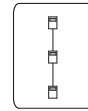


UE-F-D/T

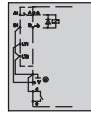




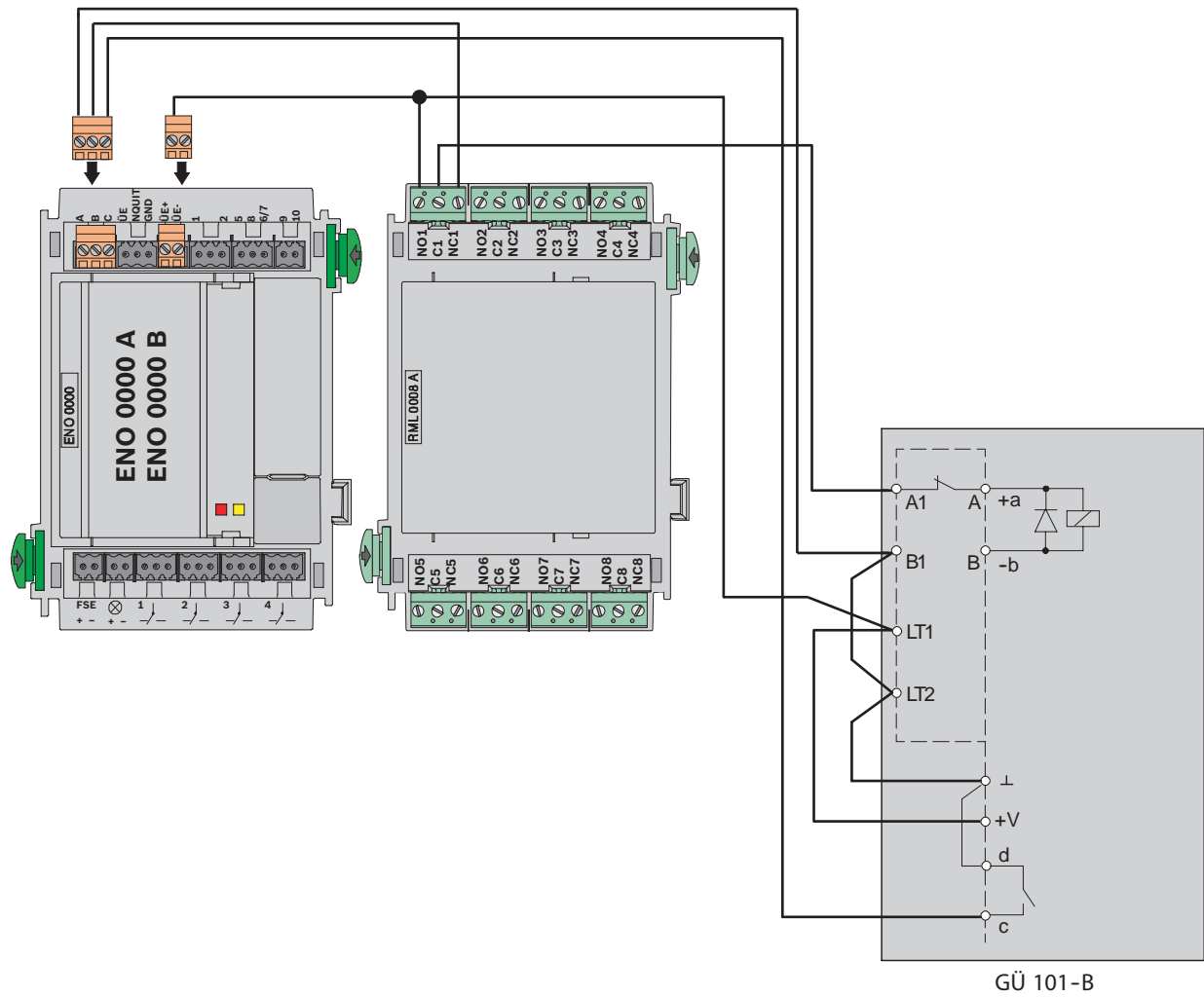
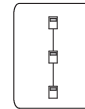
GÜ 101-B



GÜ 101-B

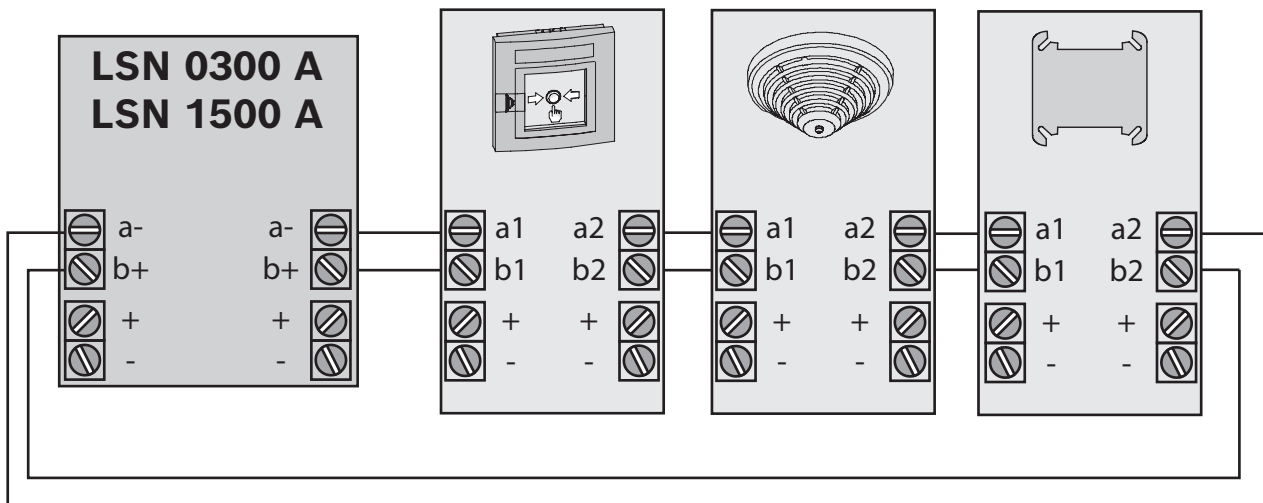
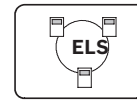


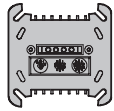
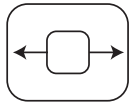
GÜ 101-B



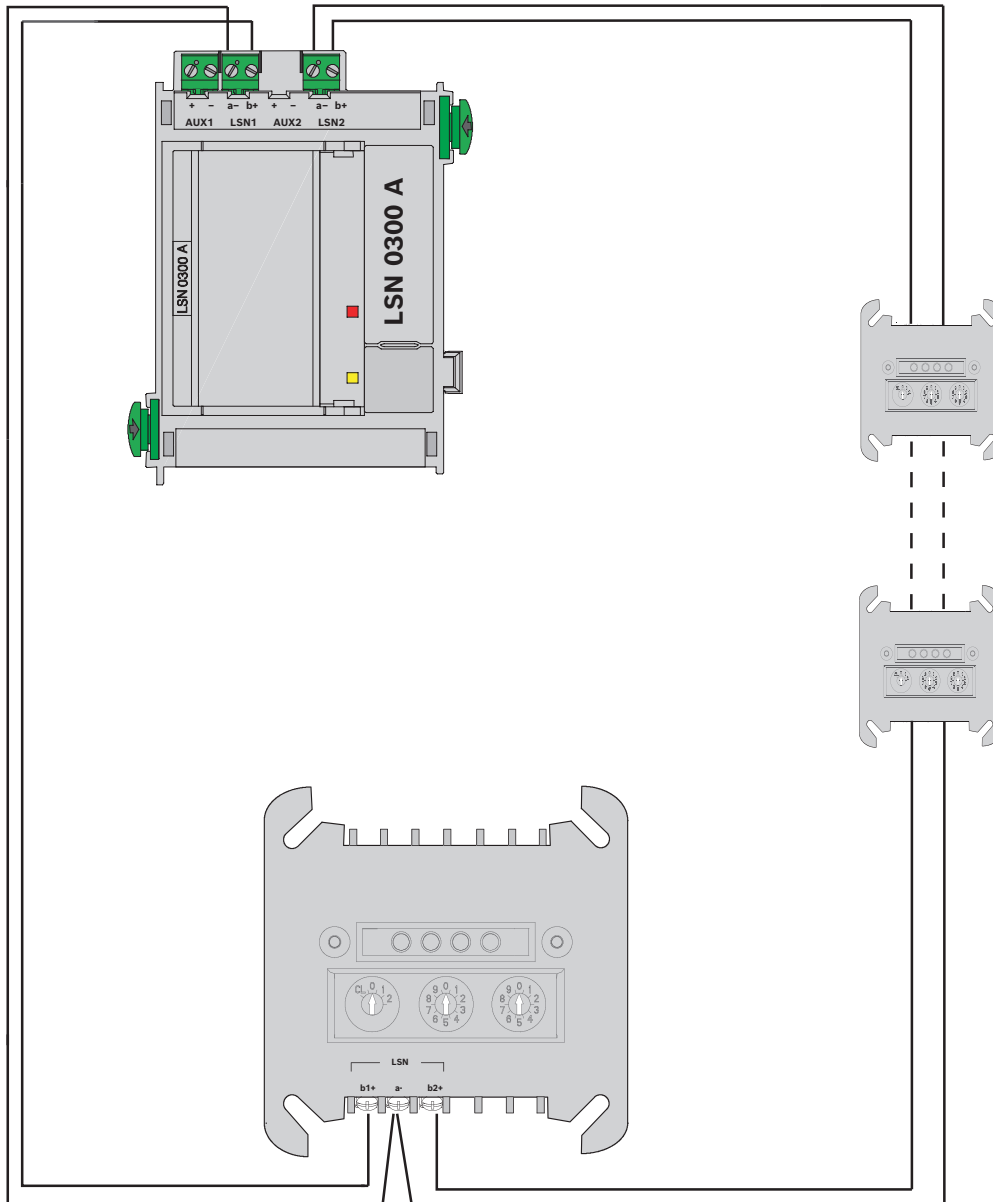
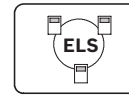
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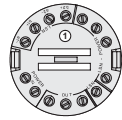
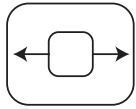
LSN 0300 A



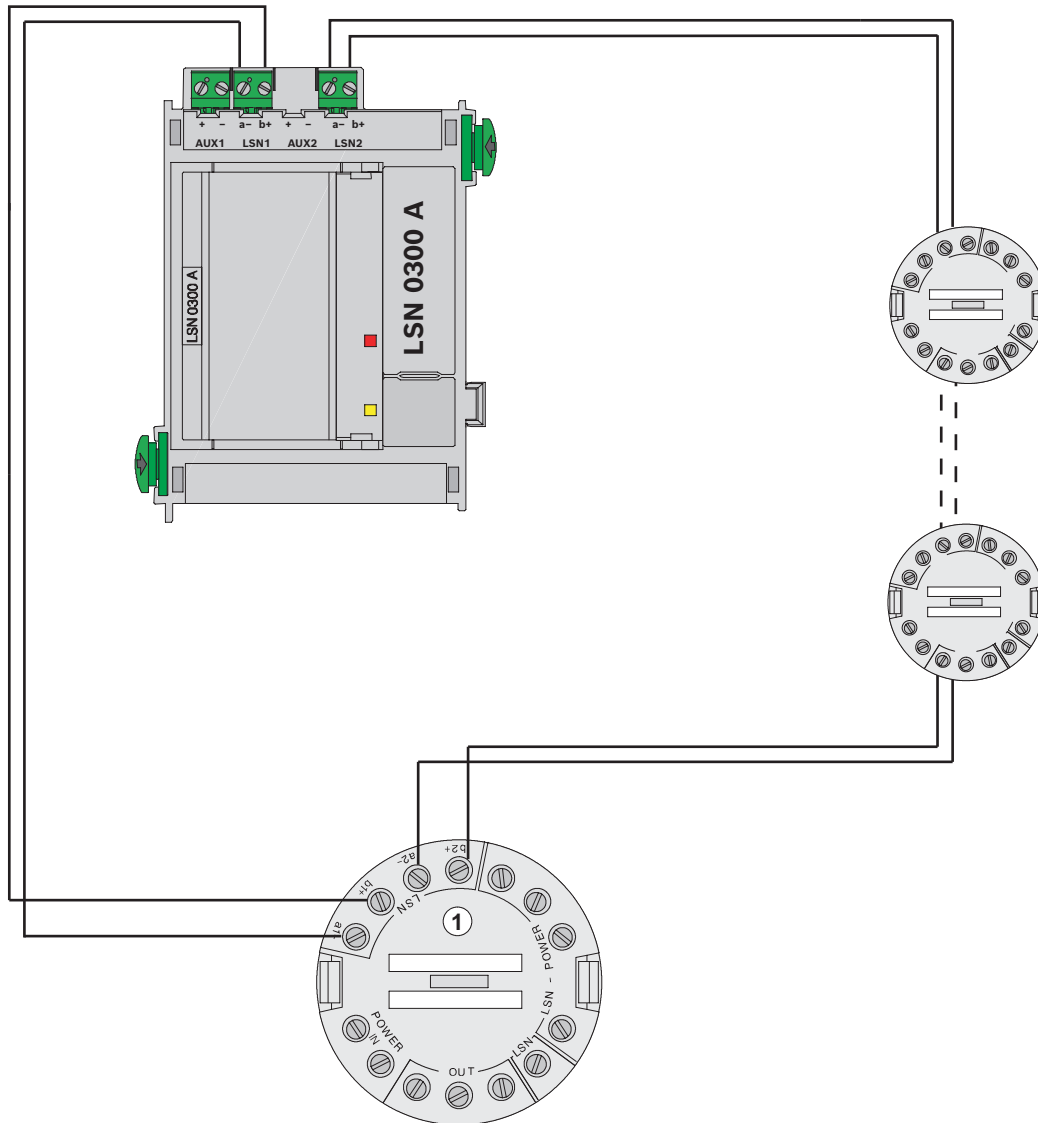
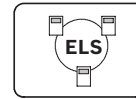


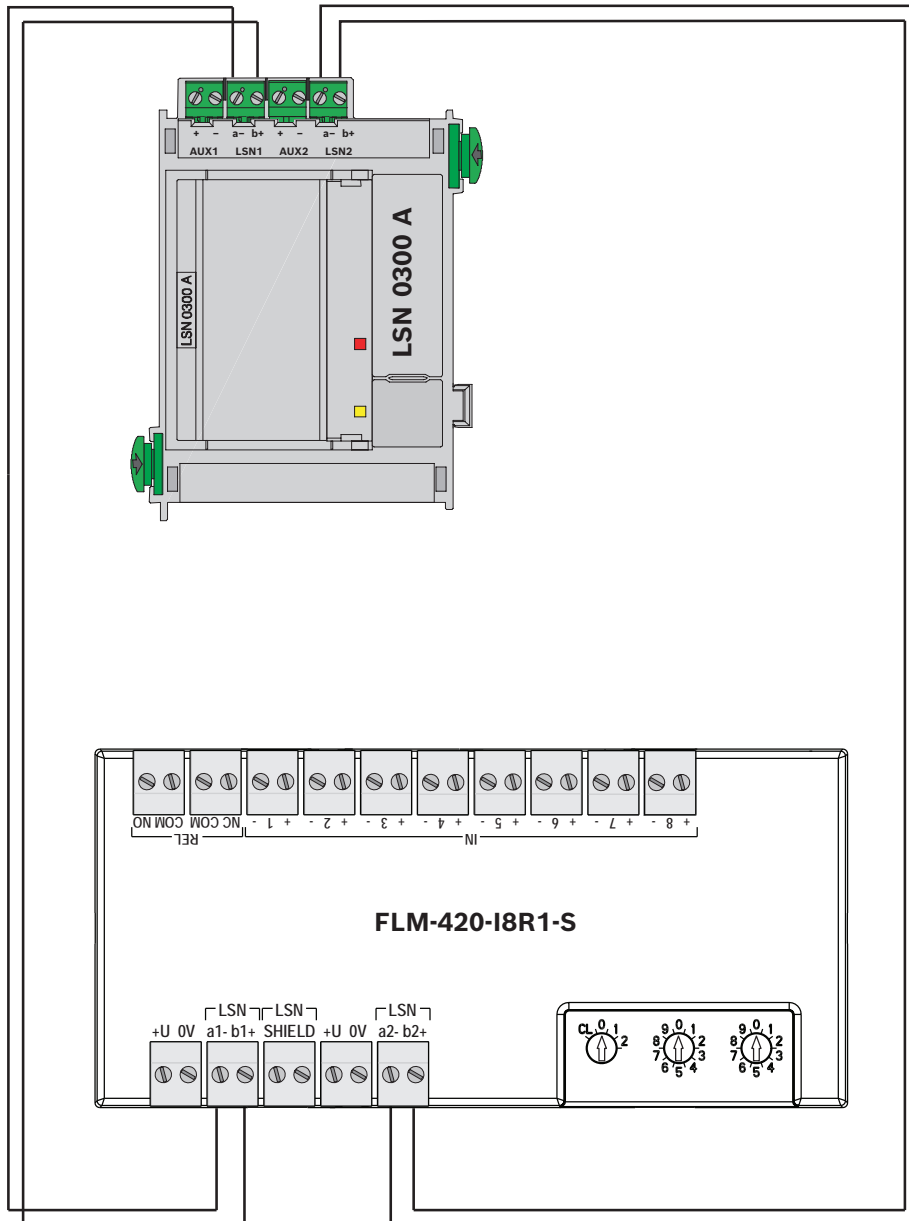
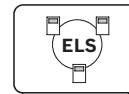
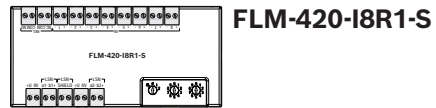
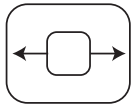
FLM-I 420-S
 FLM-420-I2-D
 FLM-420-O1I1-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

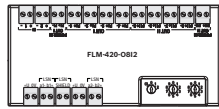
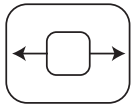




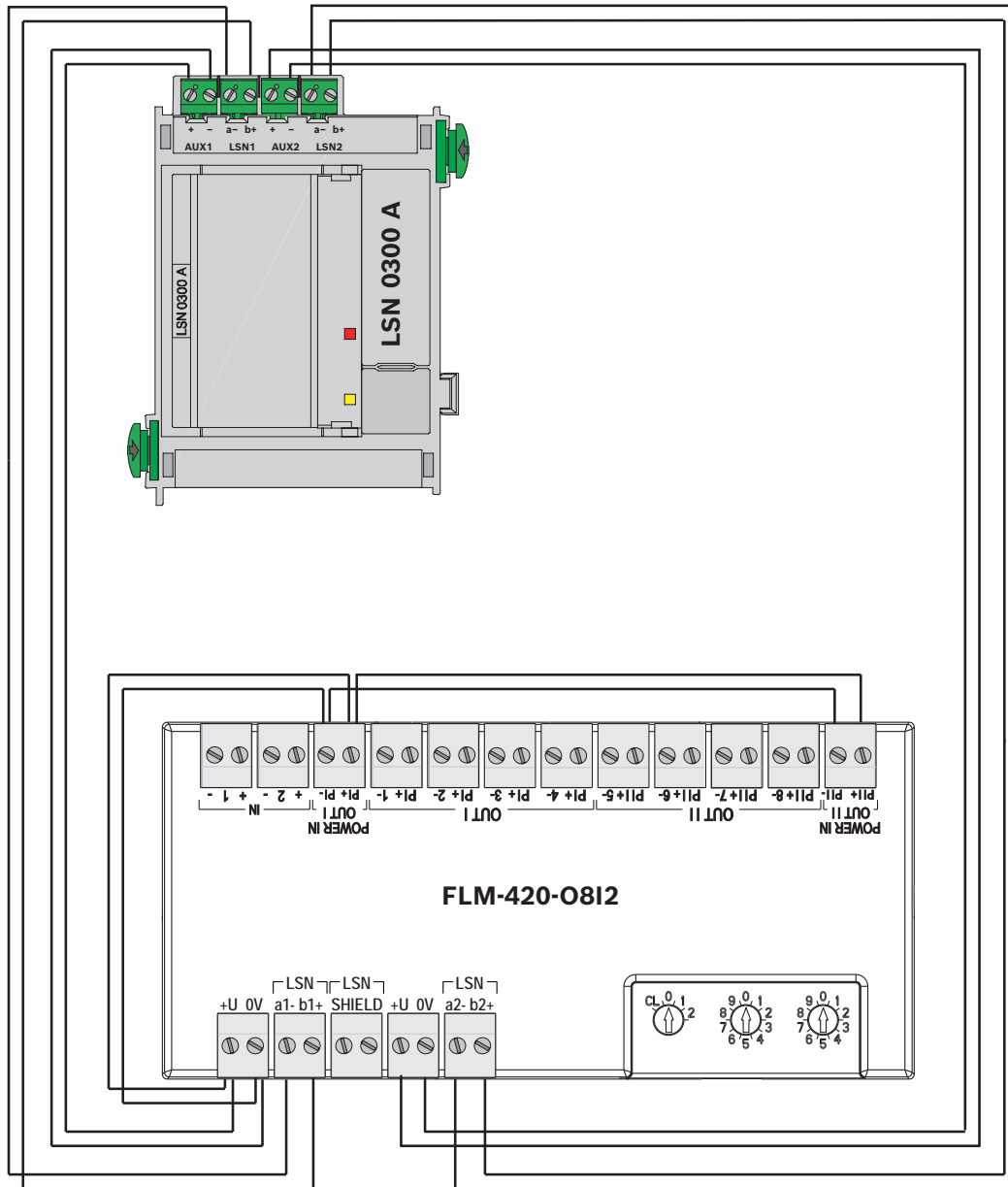
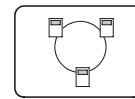
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FLM-420-RLV1-E

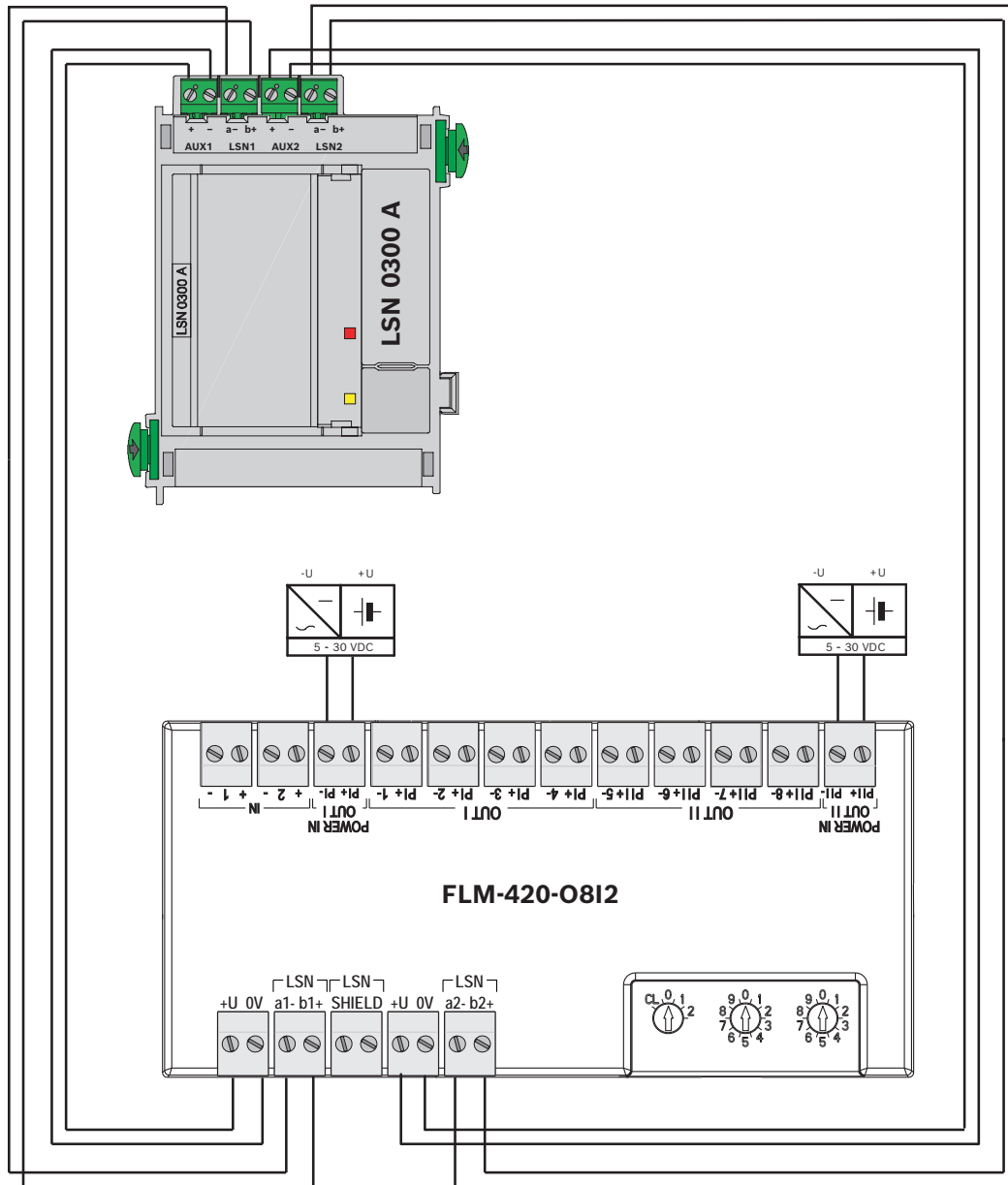
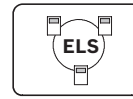
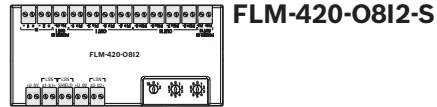
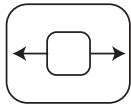


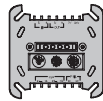
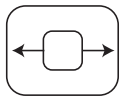




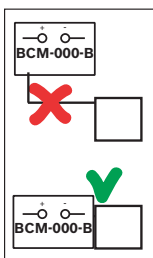
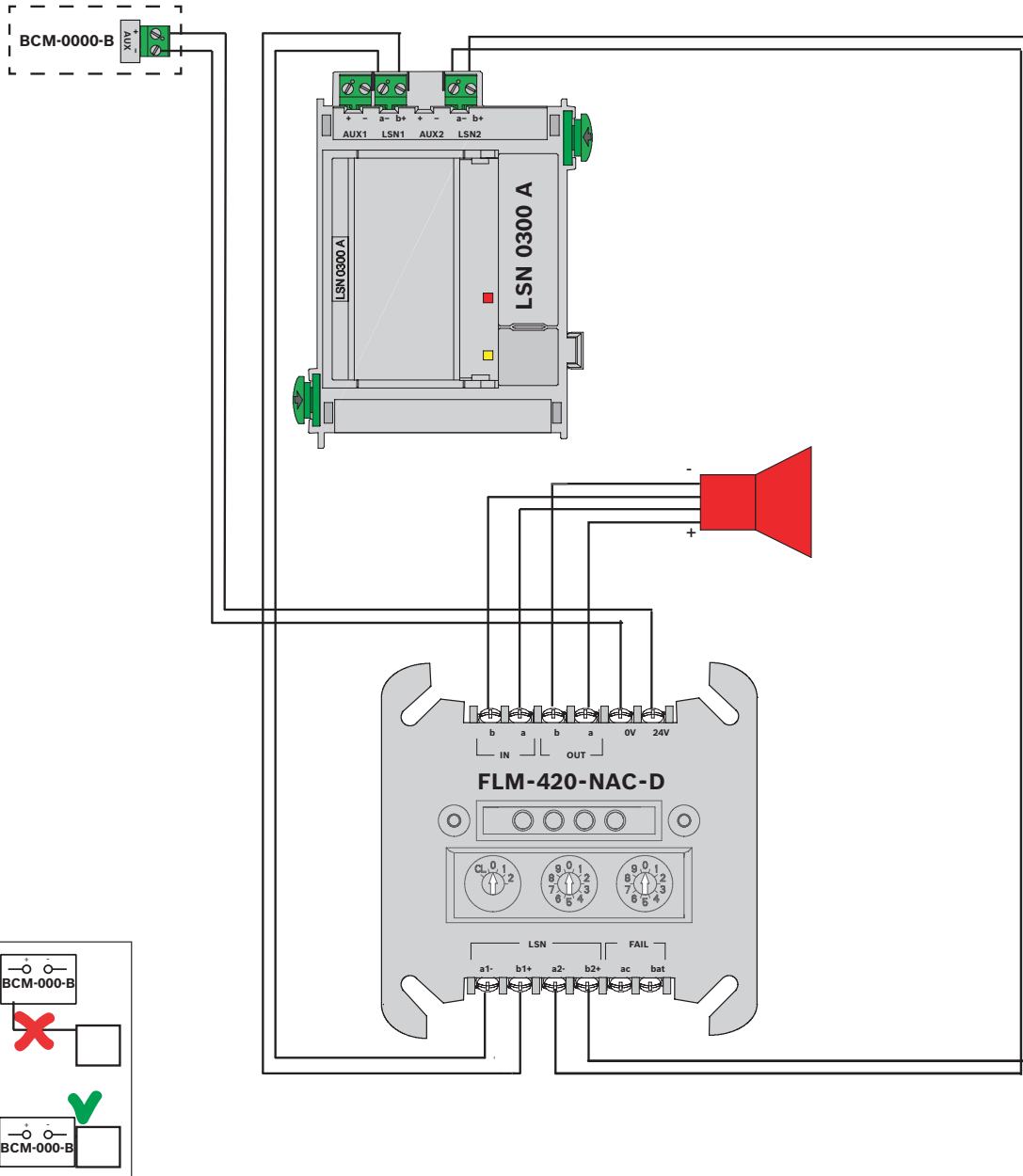
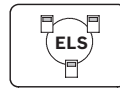
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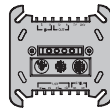
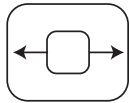




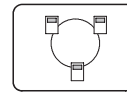


FLM-420-NAC-D/S

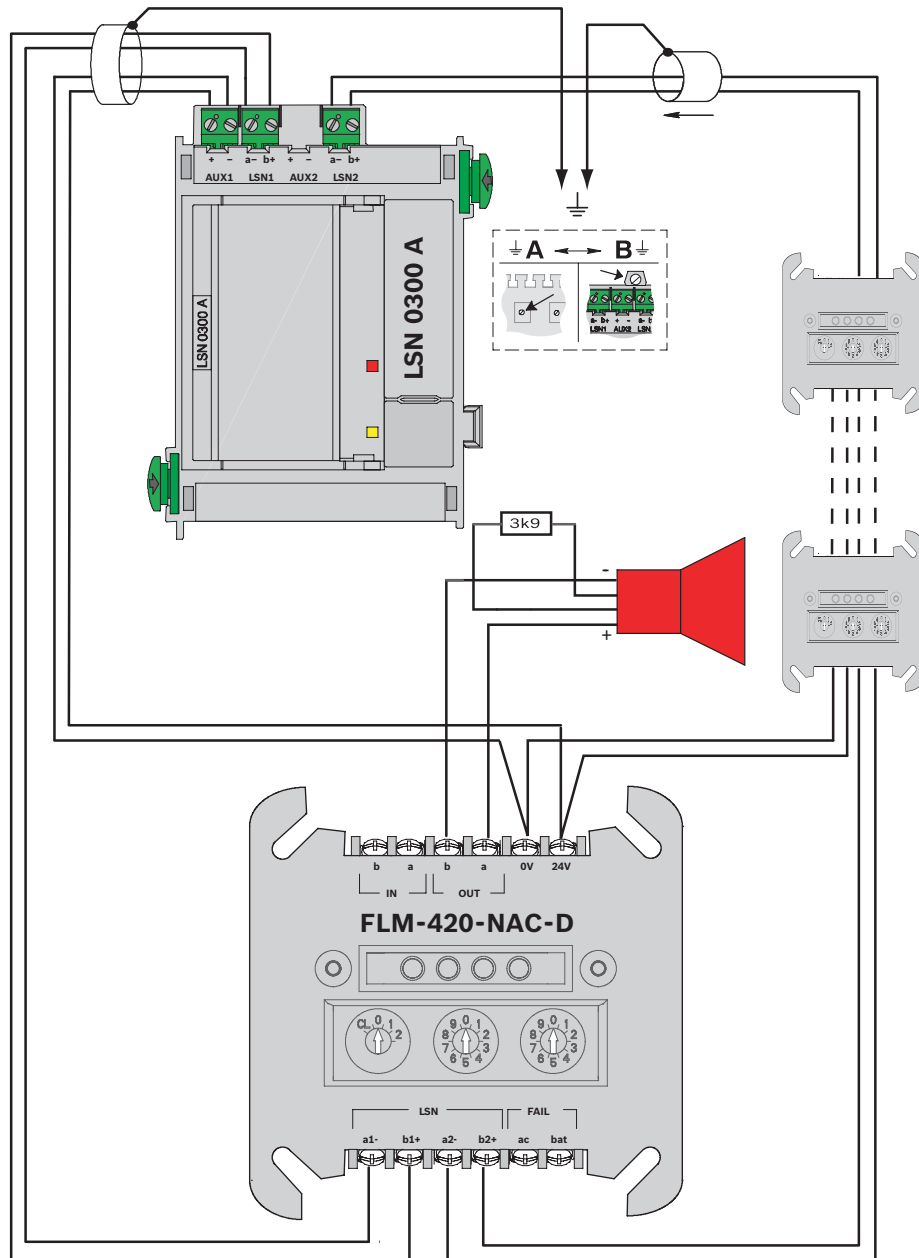


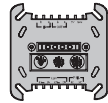
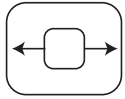


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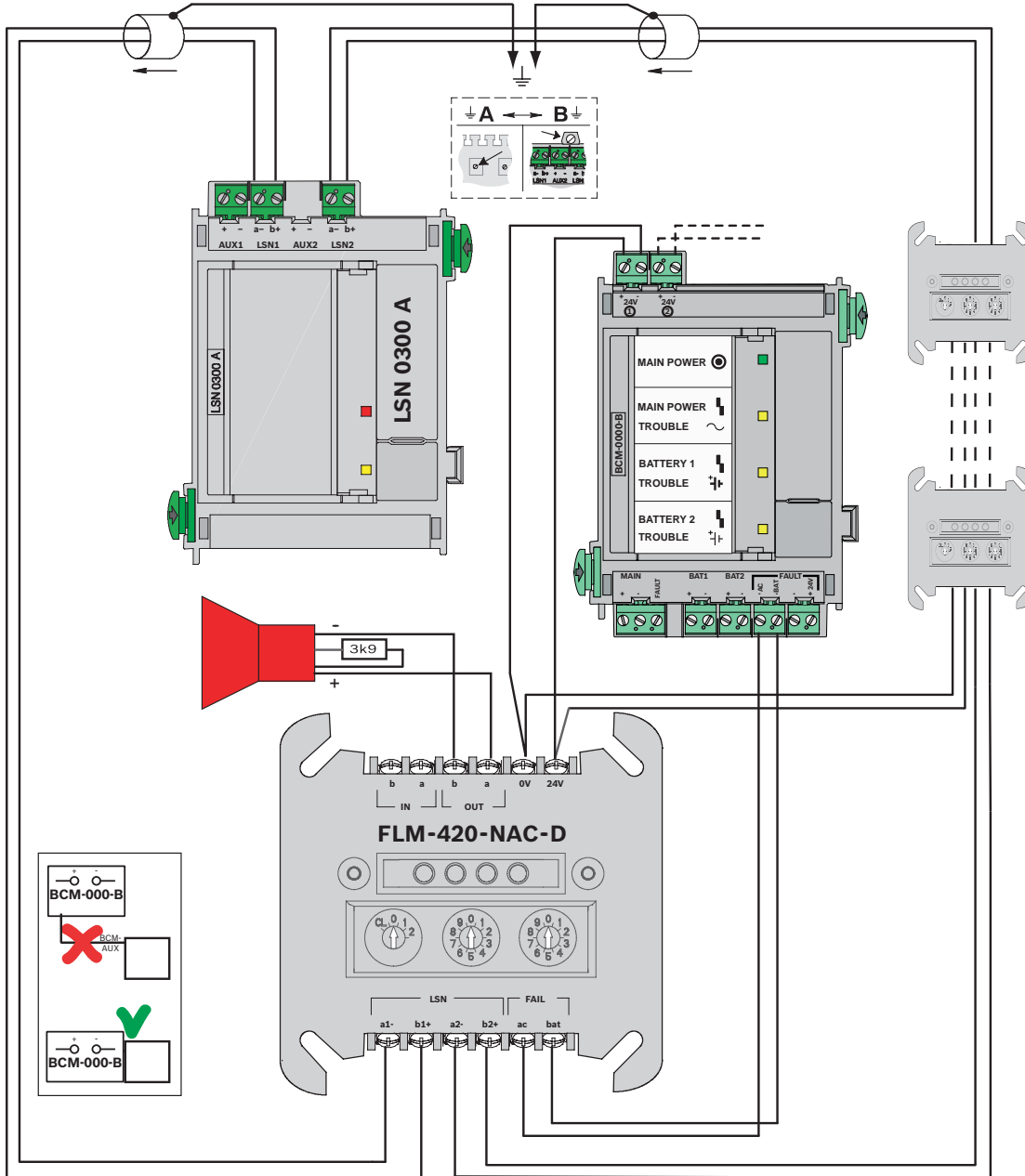
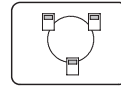


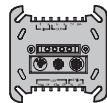
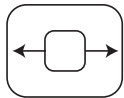
EN 54-2



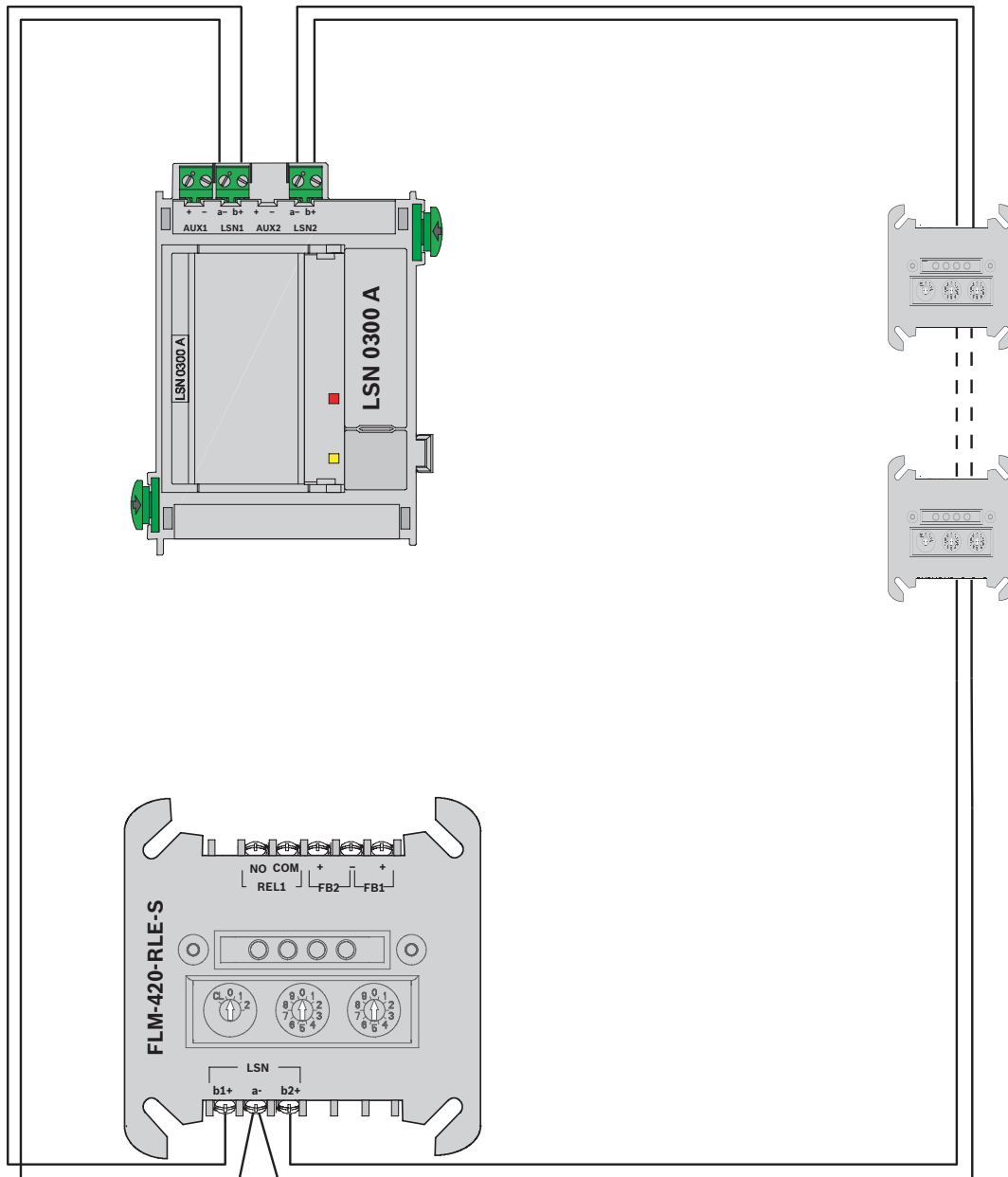
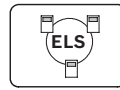


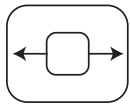
FLM-420-NAC-D/S



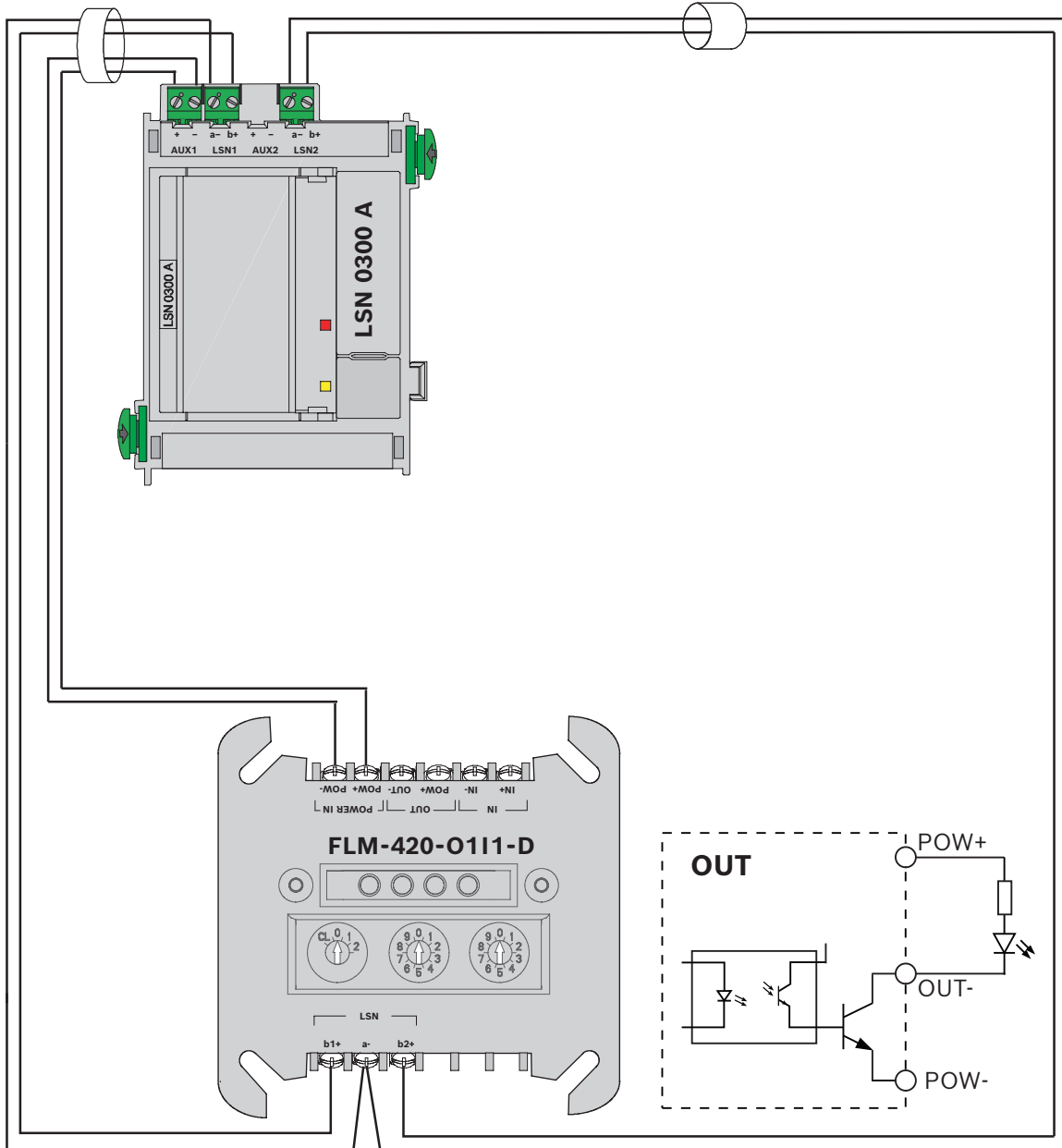
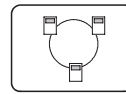


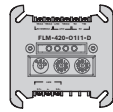
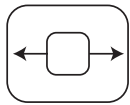
FLM-420-RLE-S



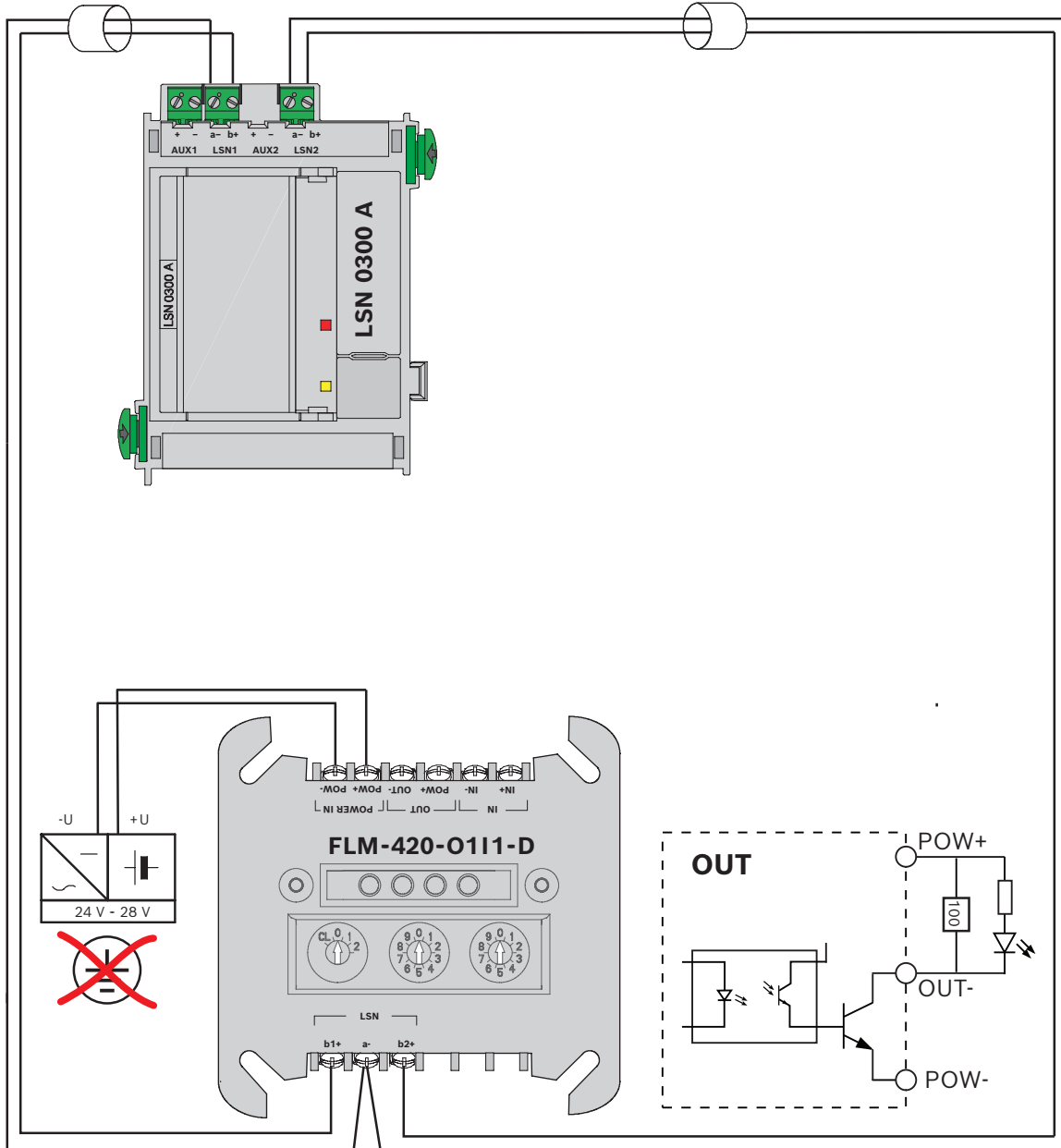
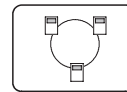


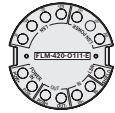
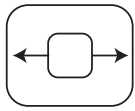
FLM-420-O111-D



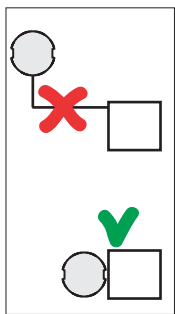
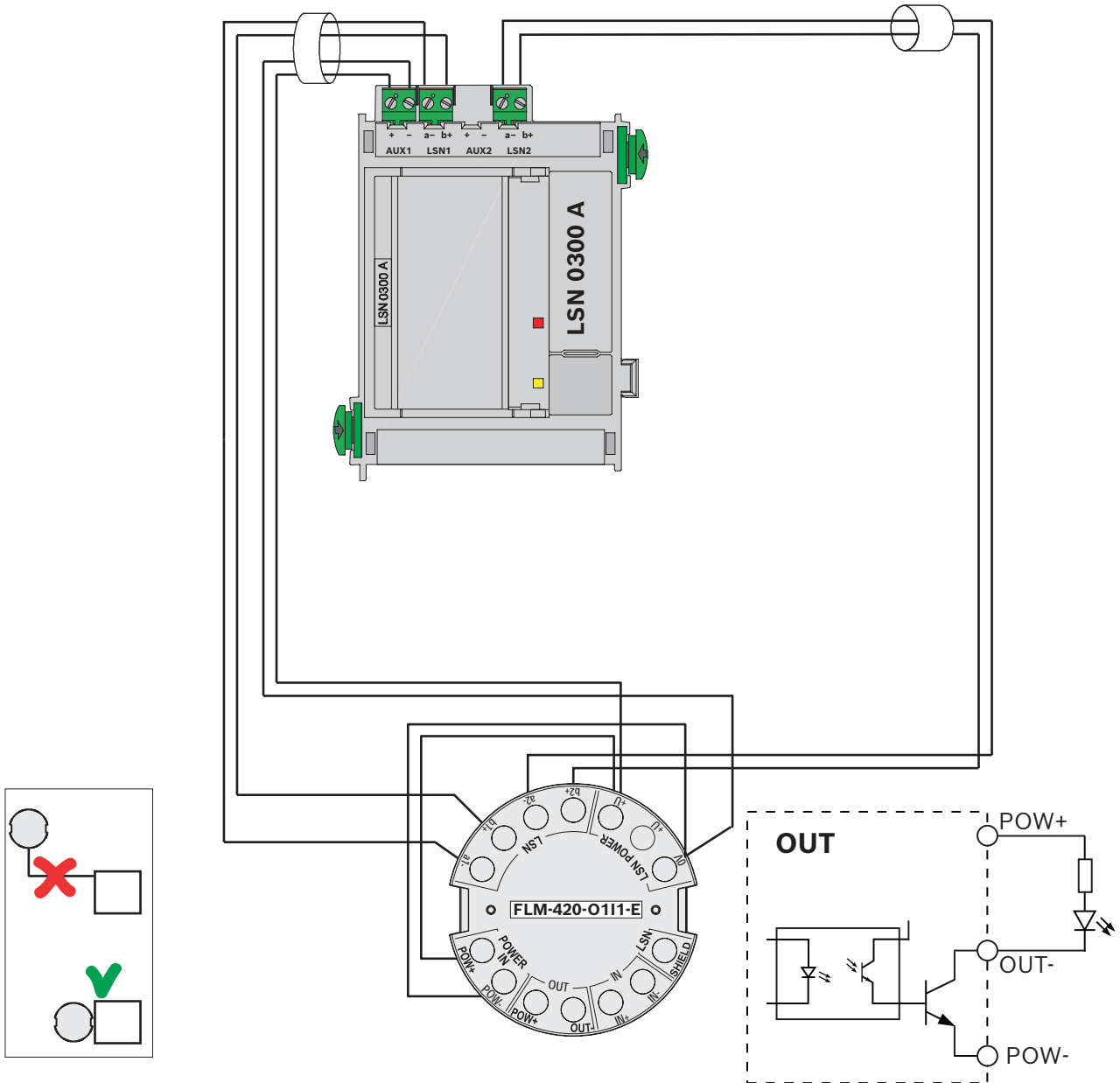
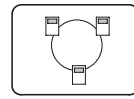


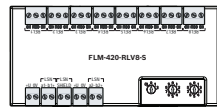
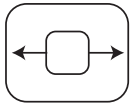
FLM-420-O111-D



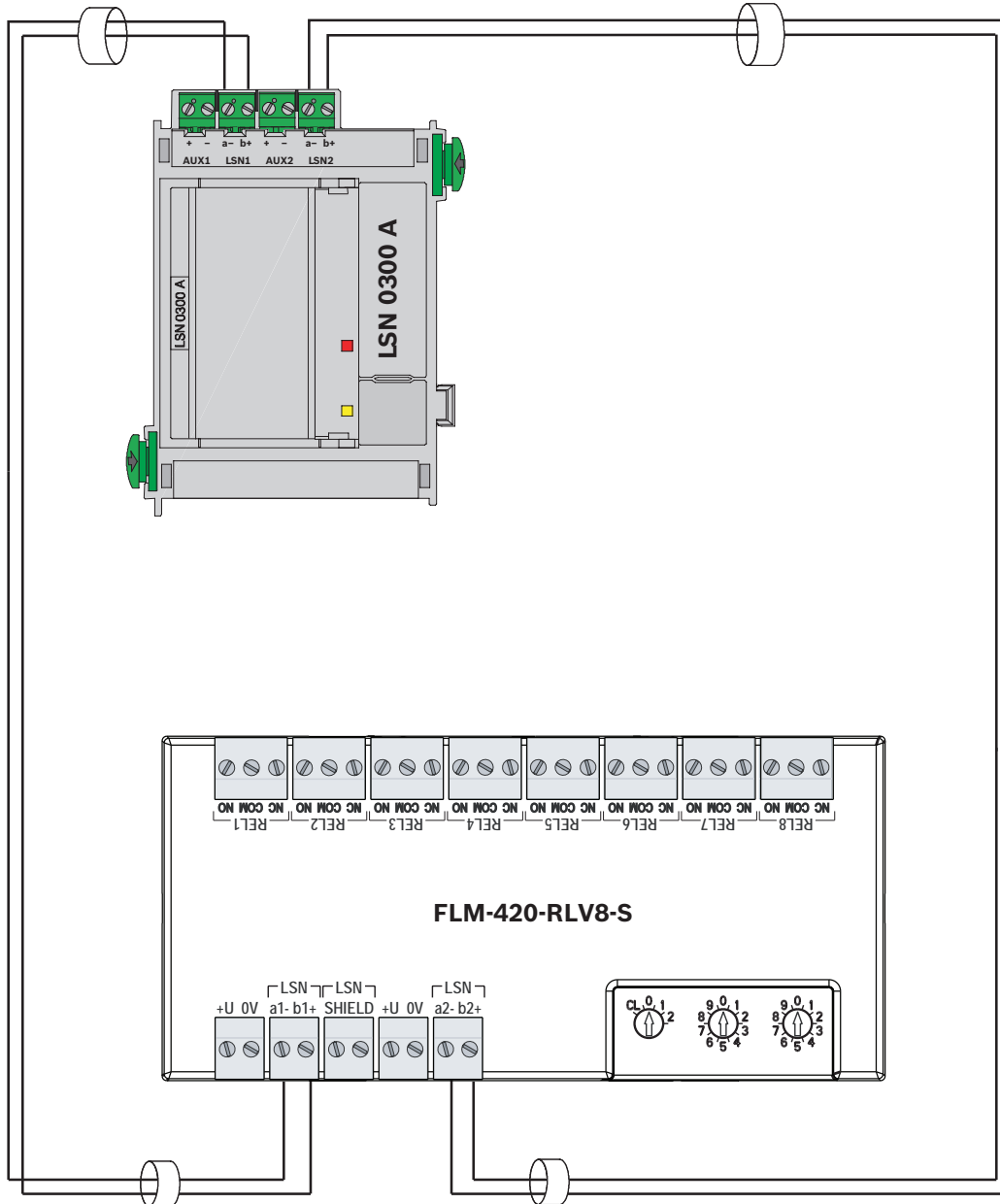
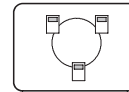


FLM-420-O111-E



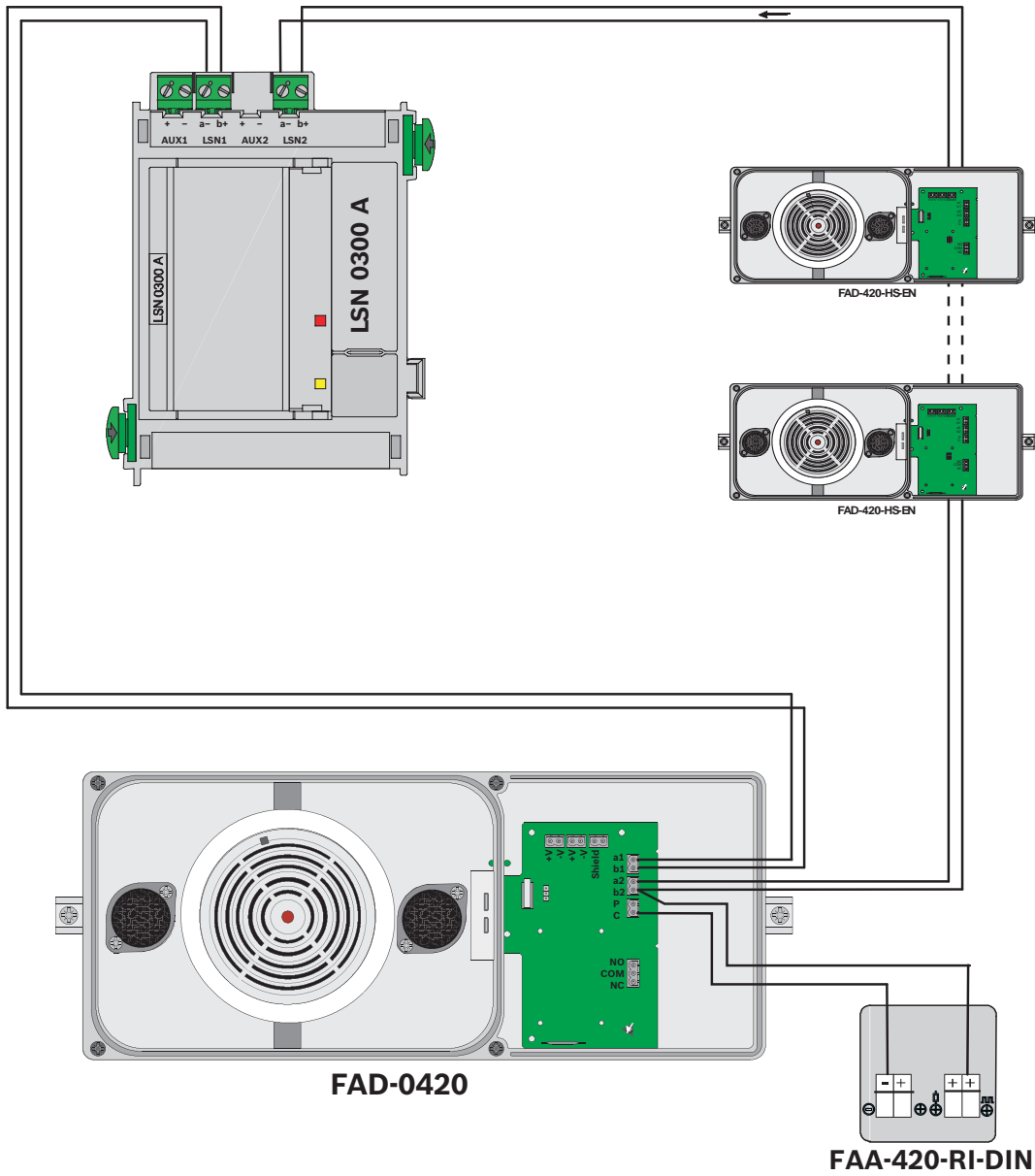


FLM-420-RLV8-S



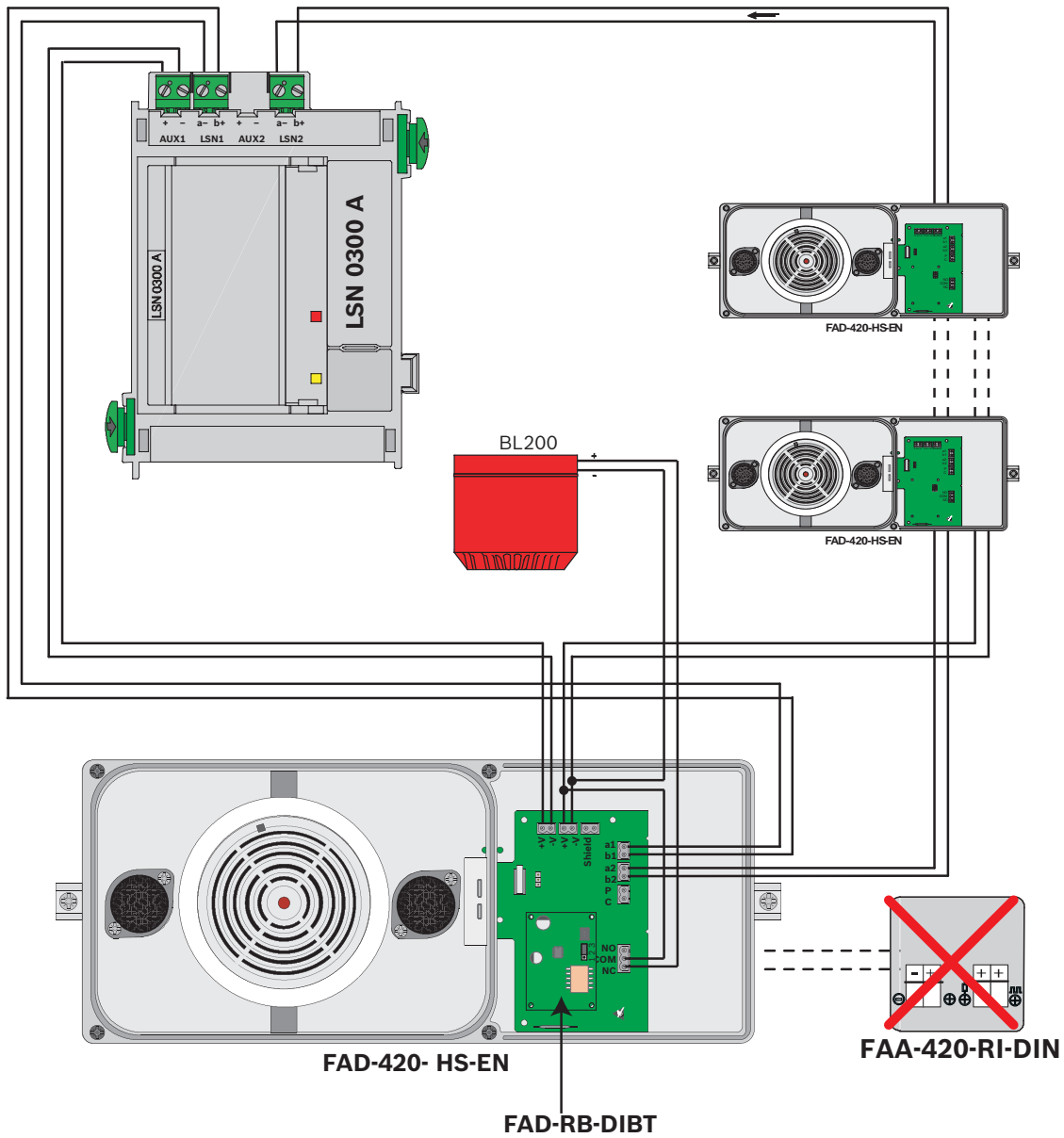


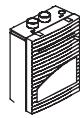
FAD-0420



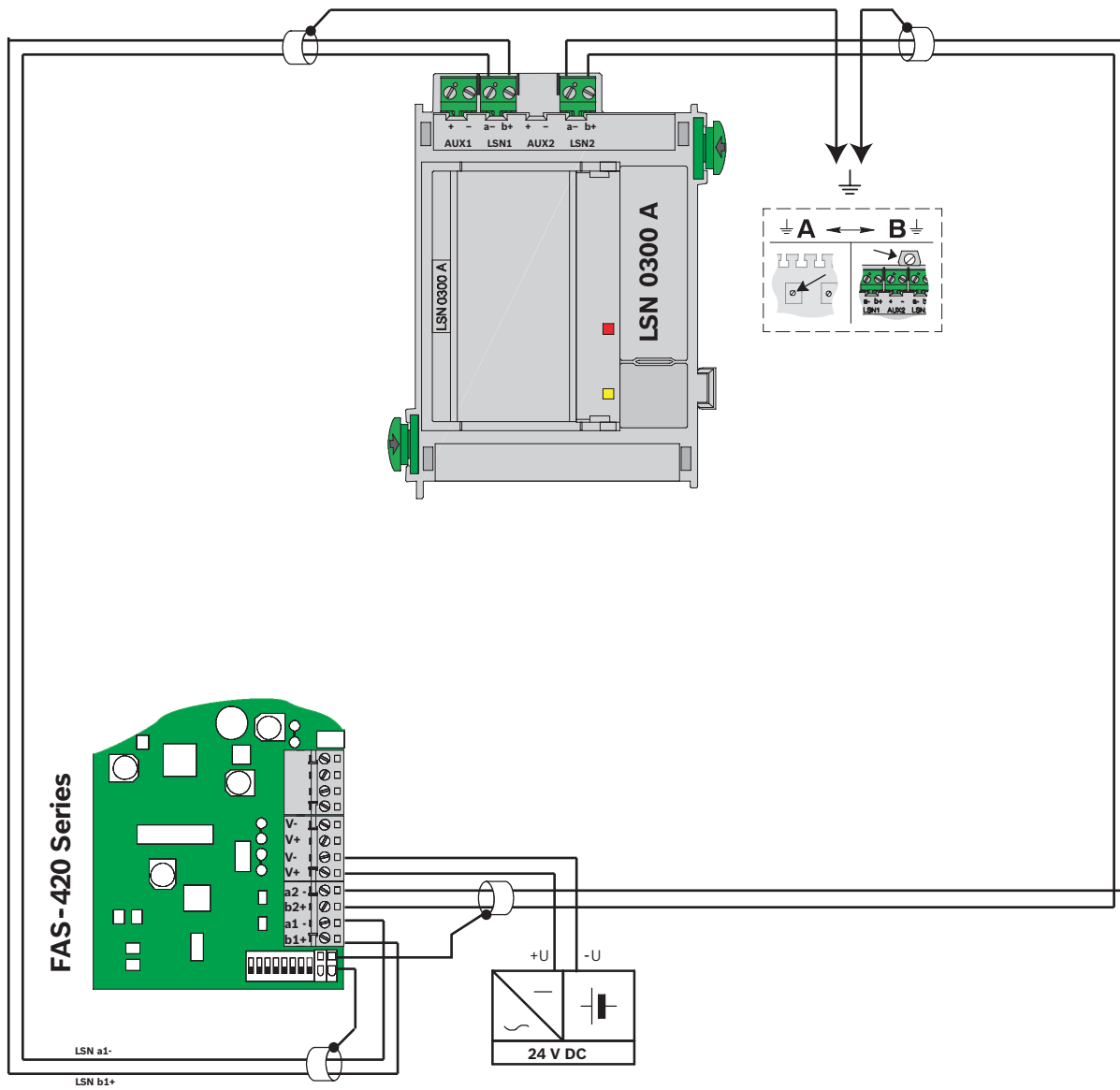


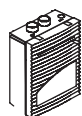
FAD-420-HS-EN



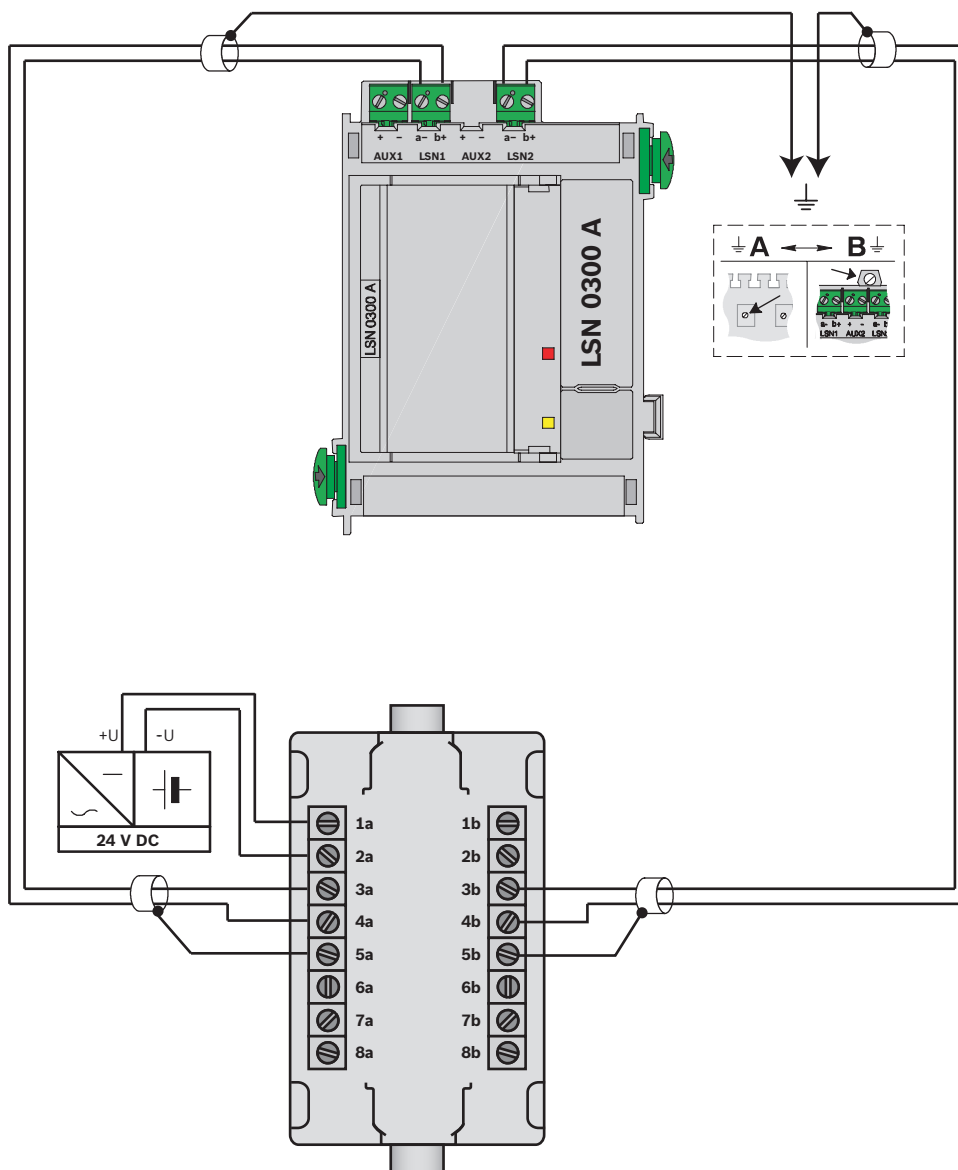


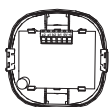
FAS-420 Series



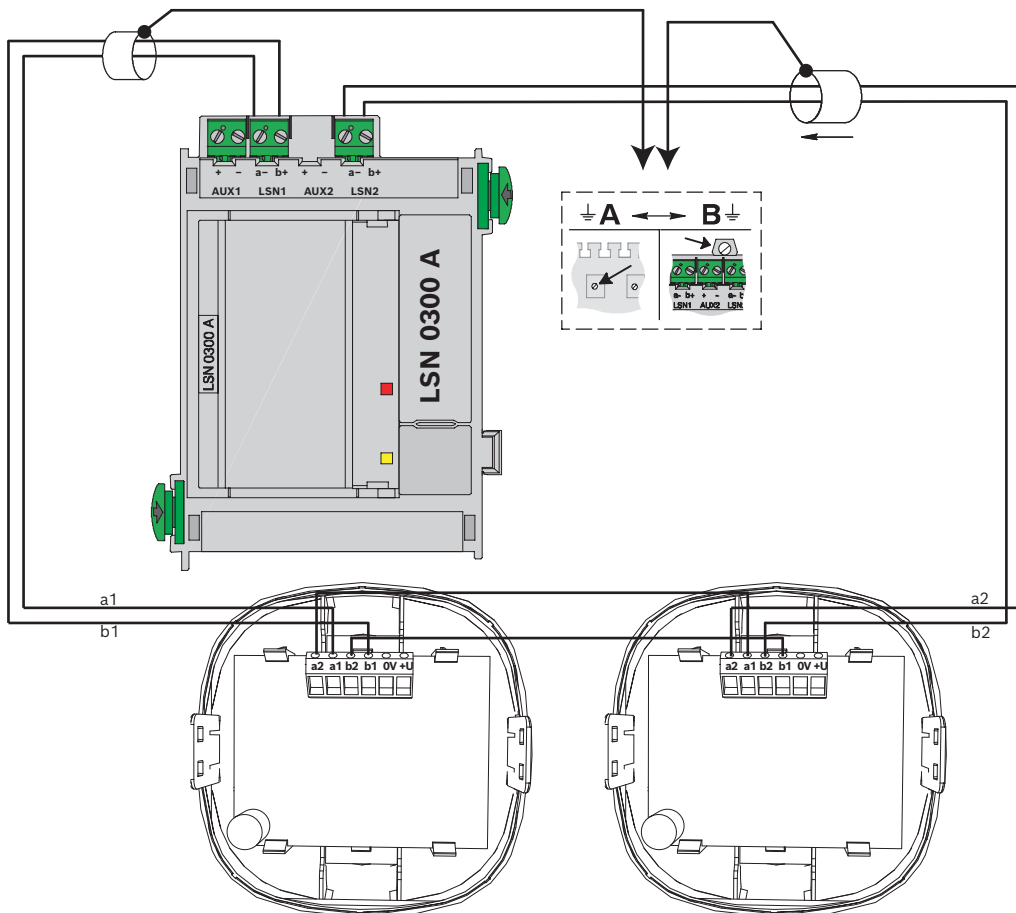
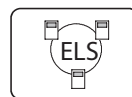


FAS-420-TM Series





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

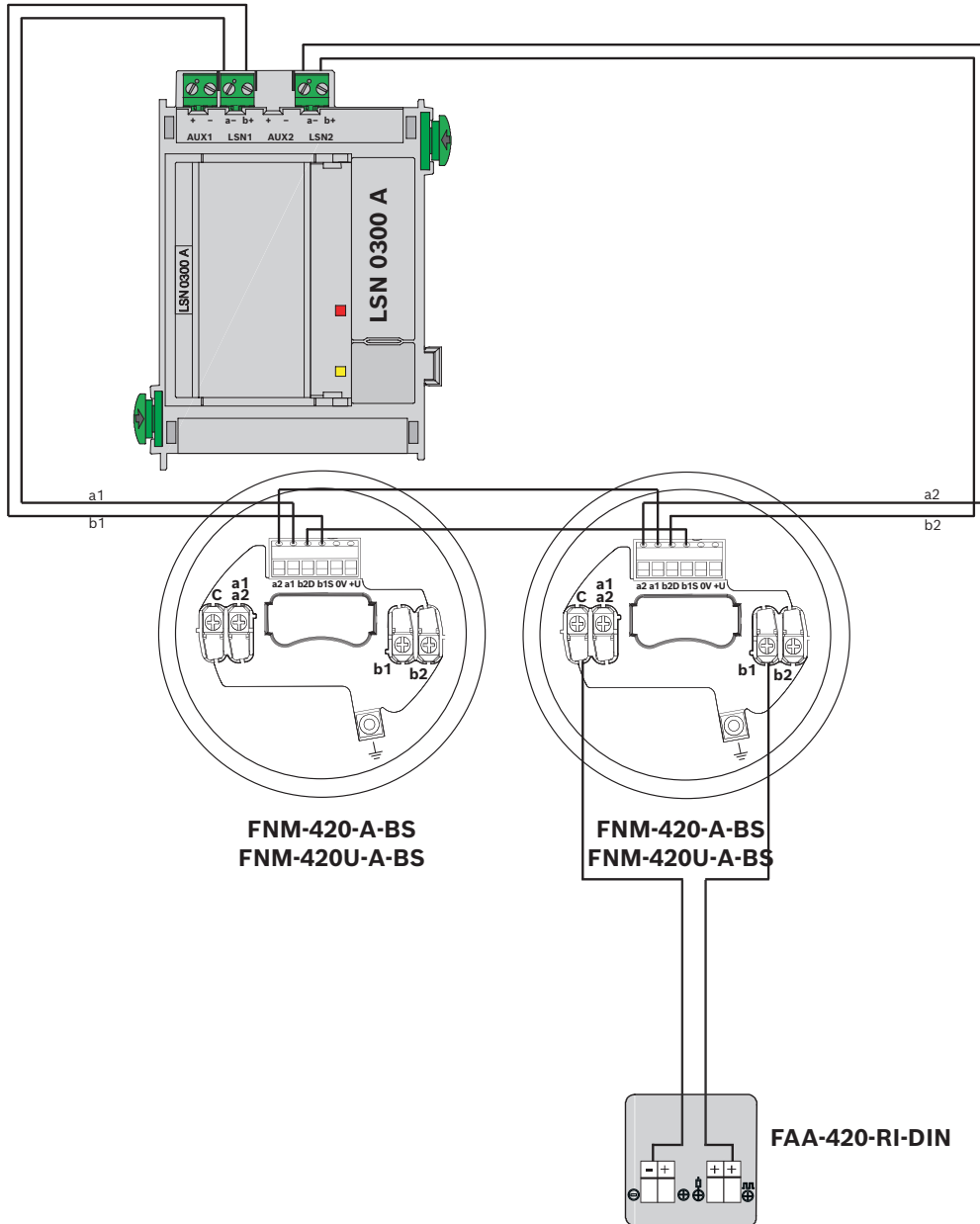
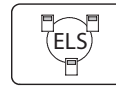


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

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

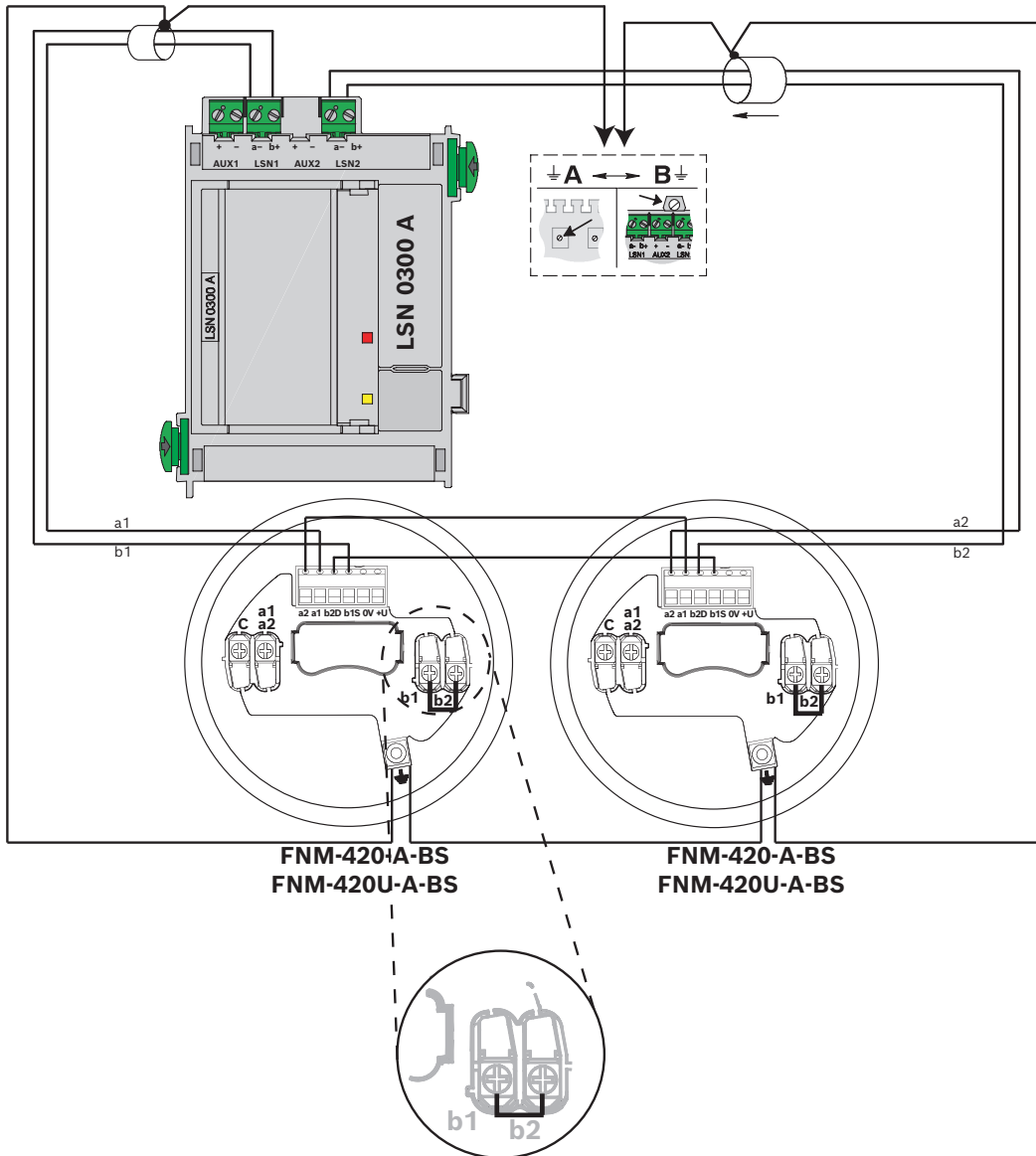
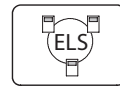


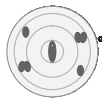
FNM-420-A-BS
FNM-420U-A-BS



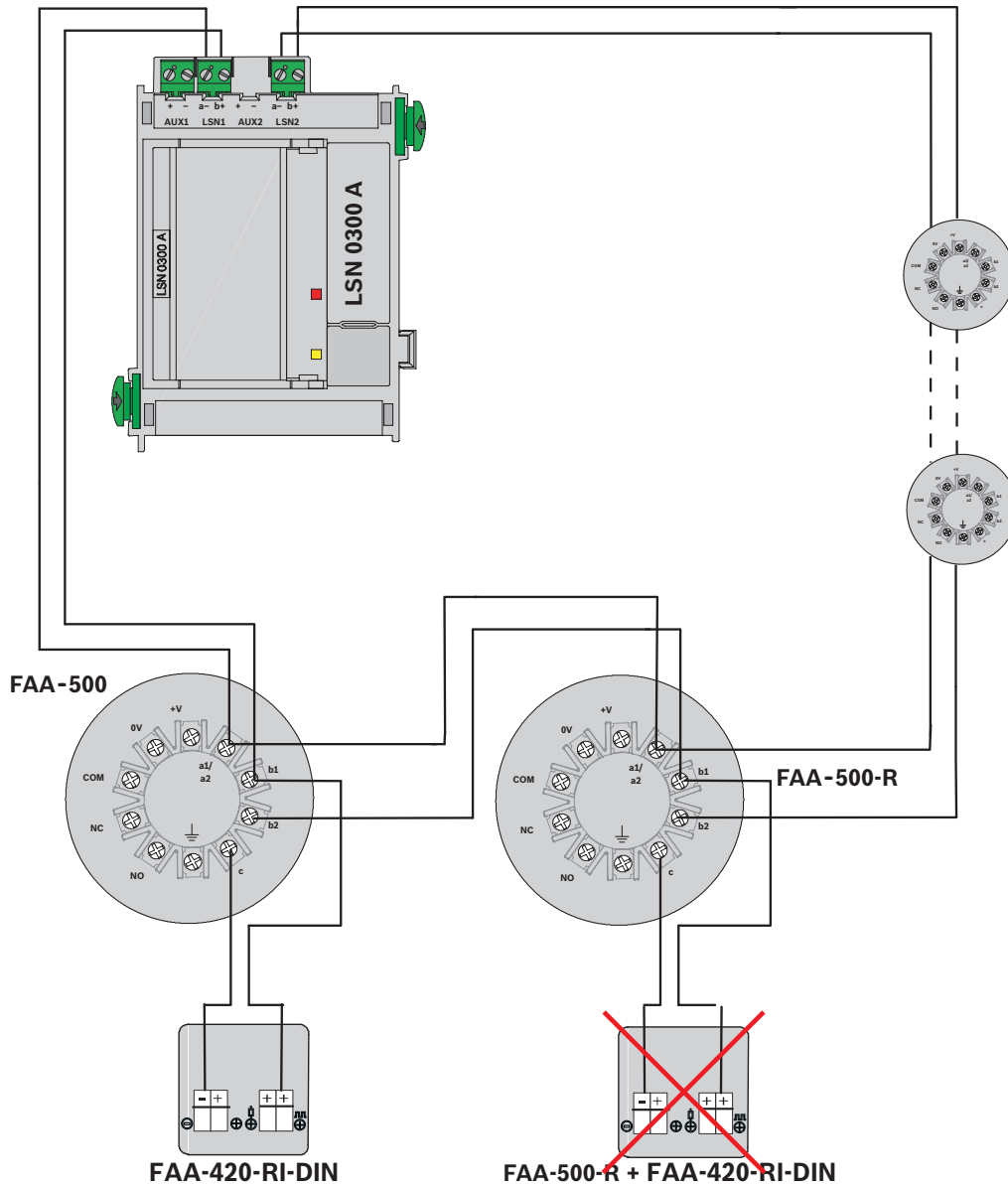
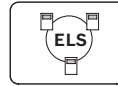


FNM-420-A-BS
FNM-420U-A-BS



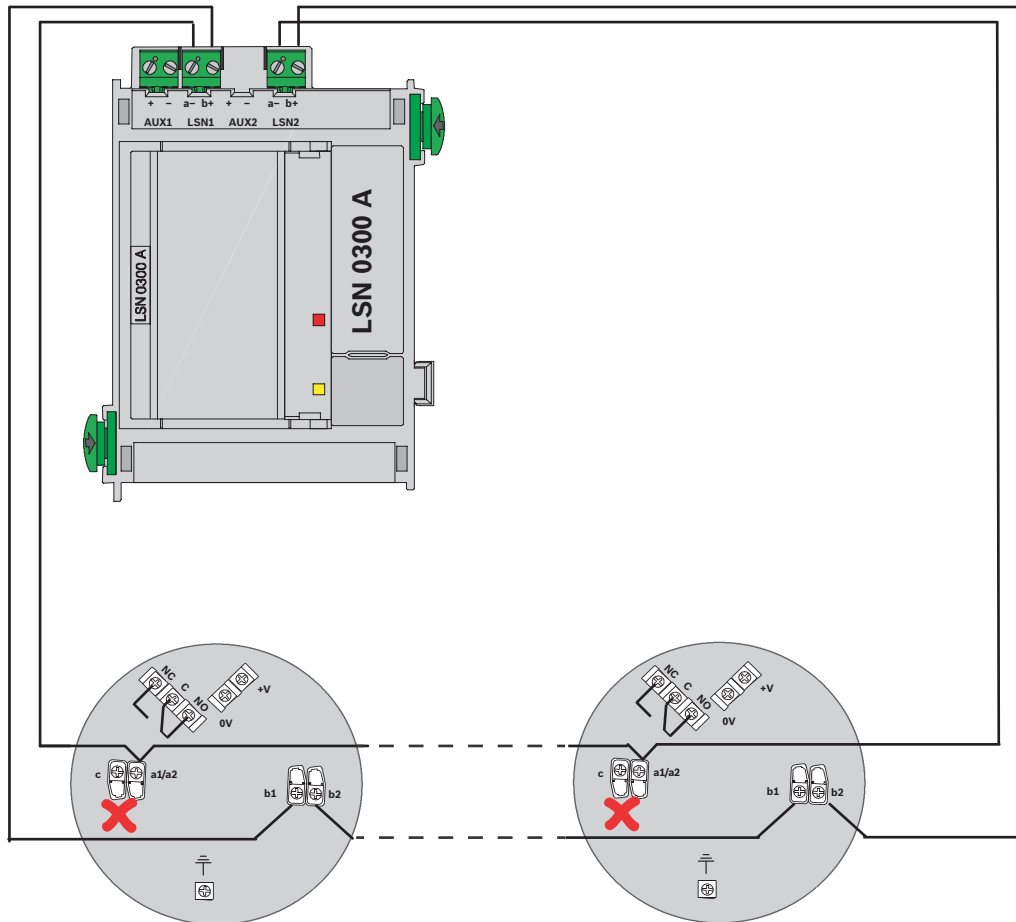
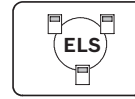


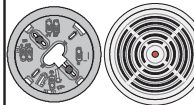
FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P



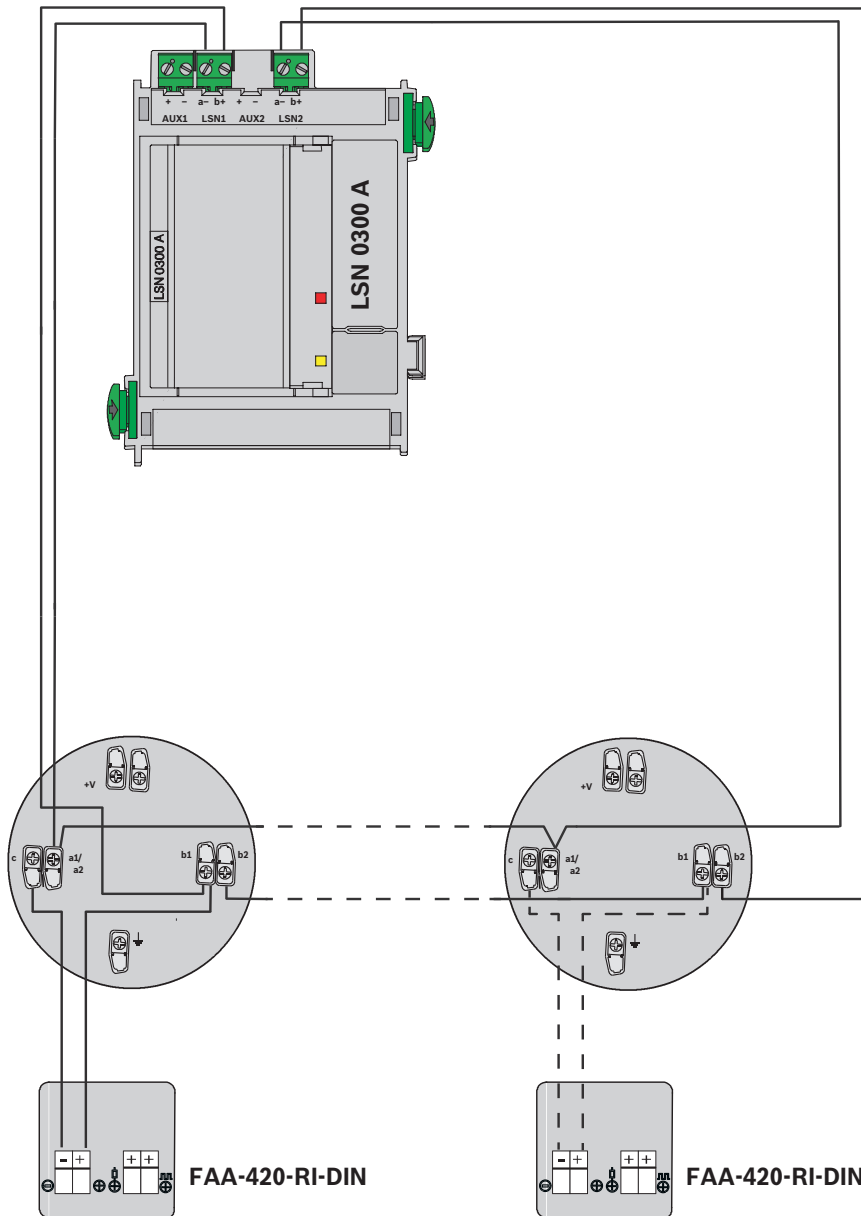
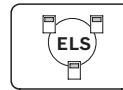


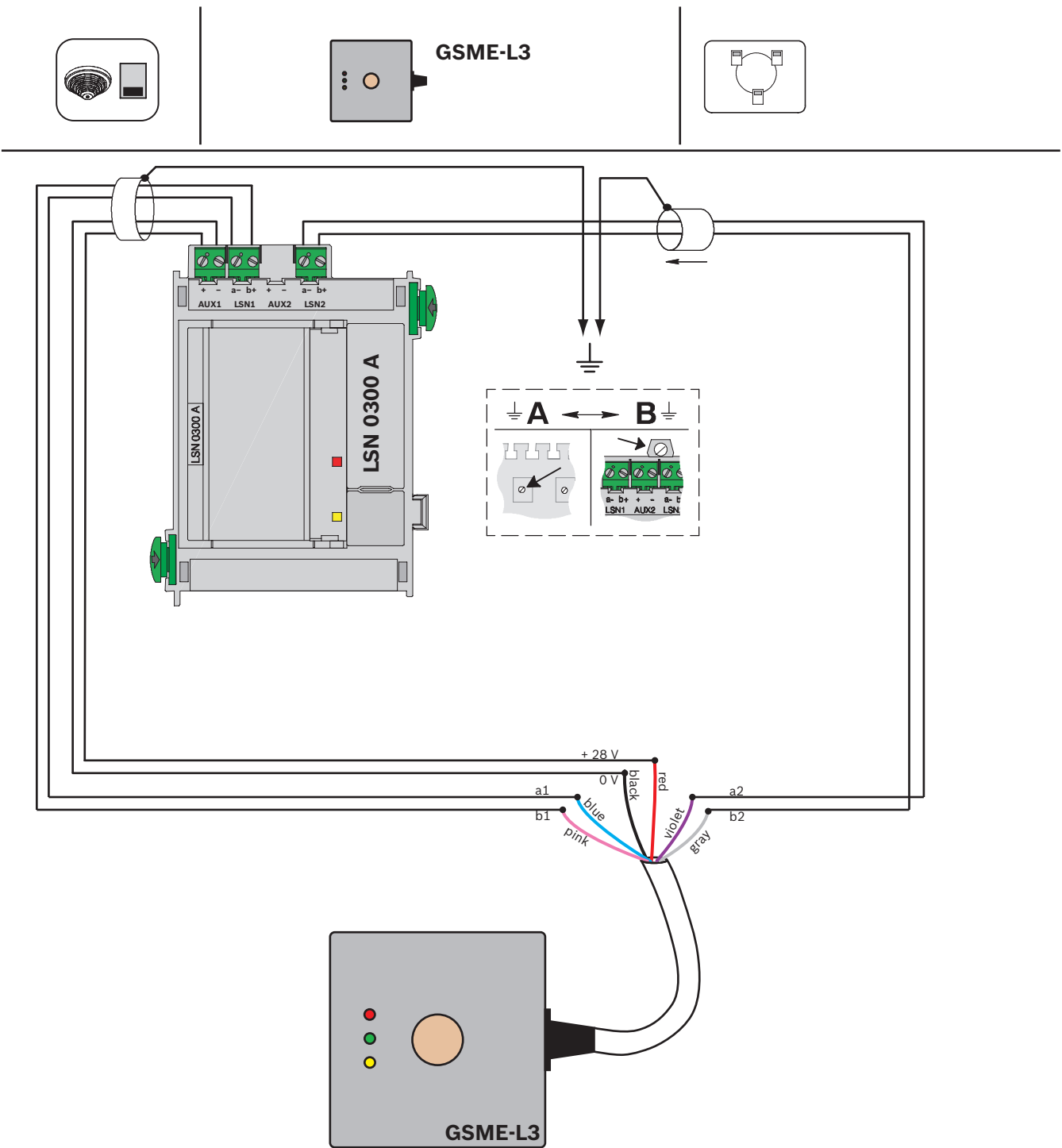
FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R

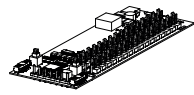




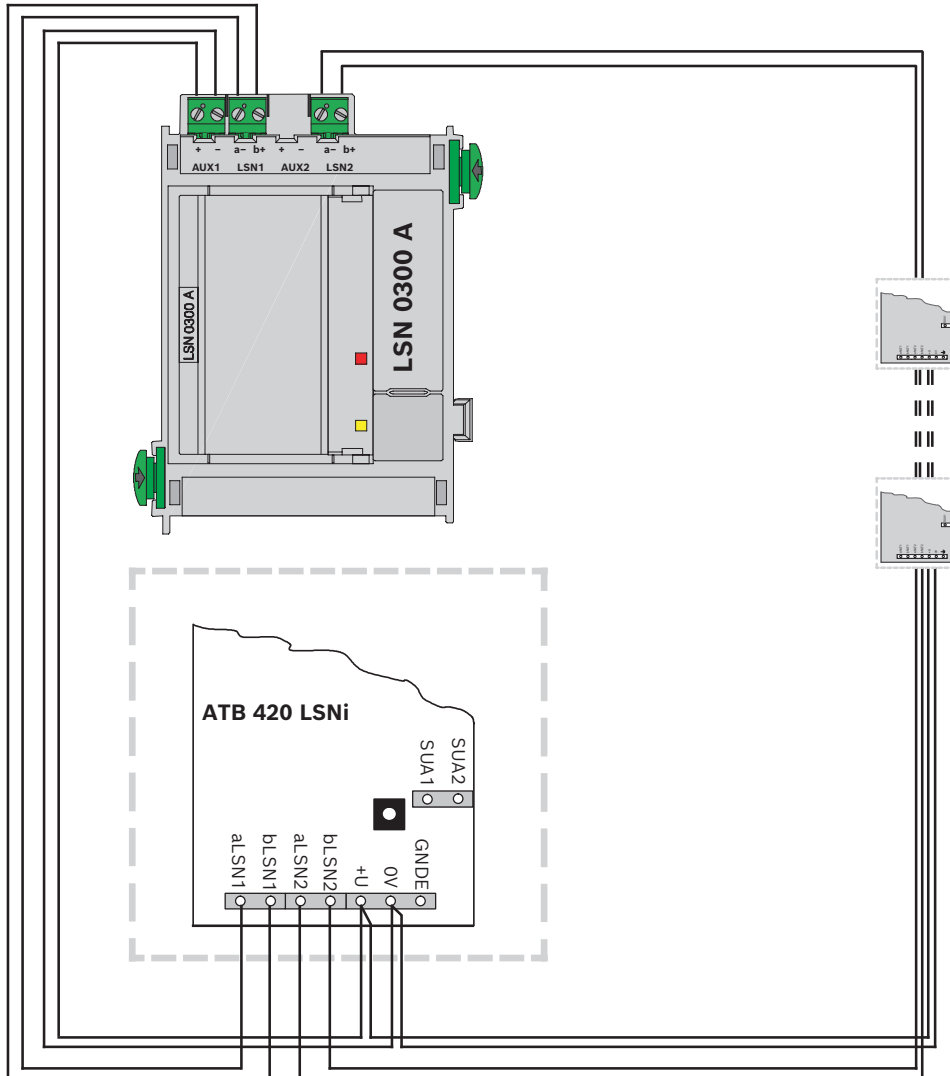
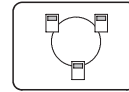
MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R





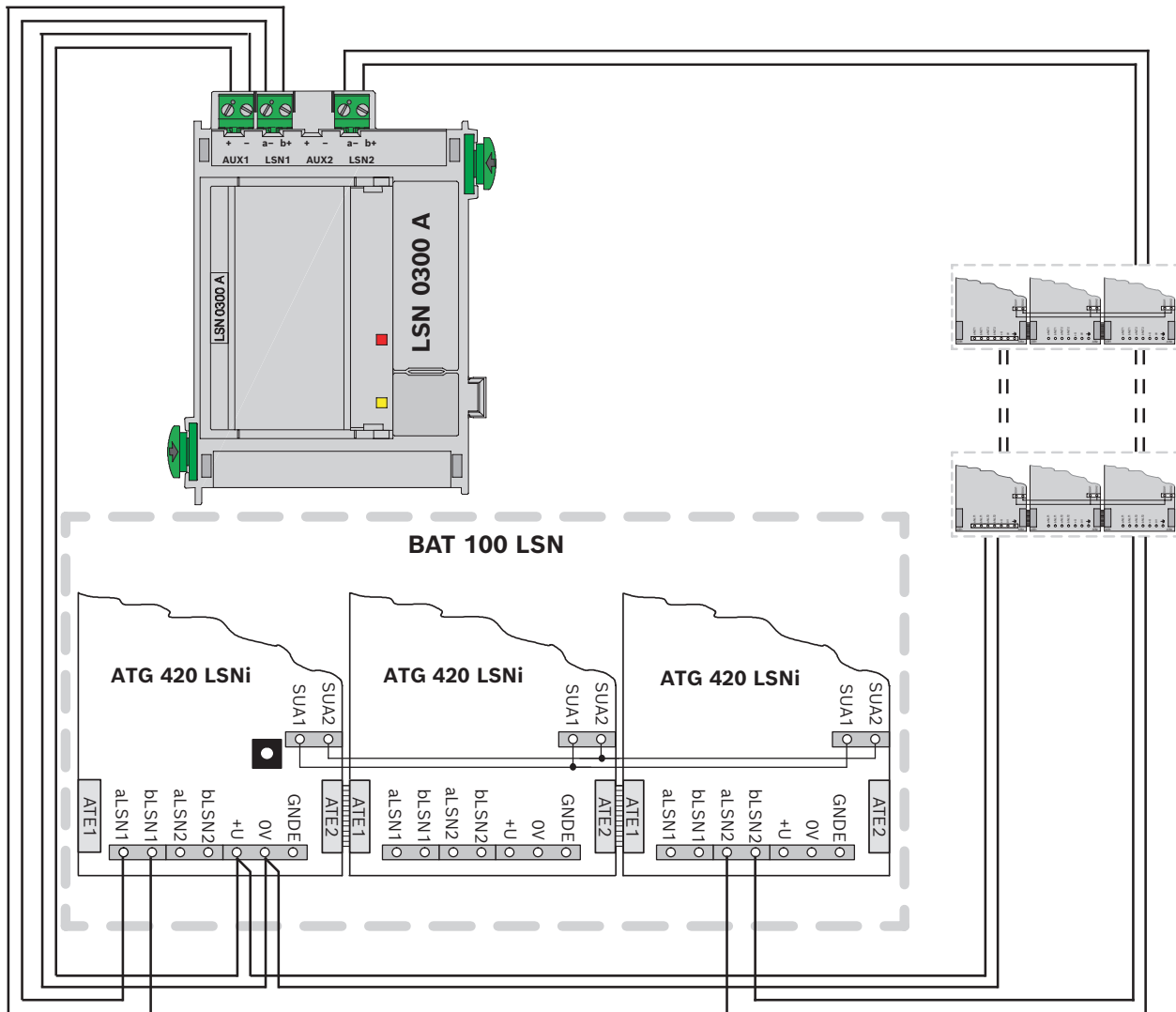
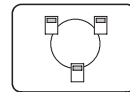


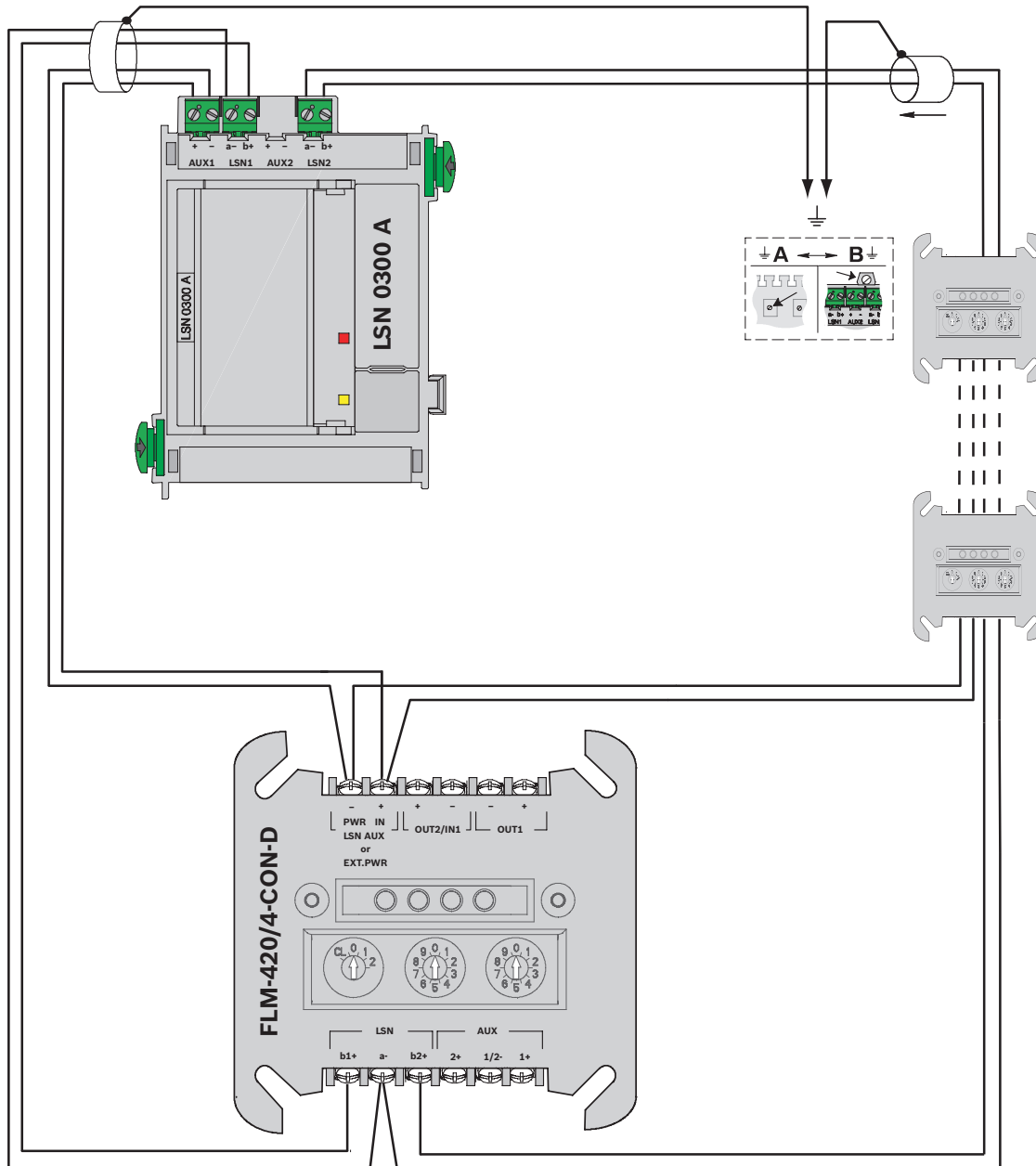
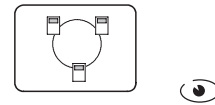
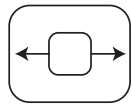
ATB 420 LSNi





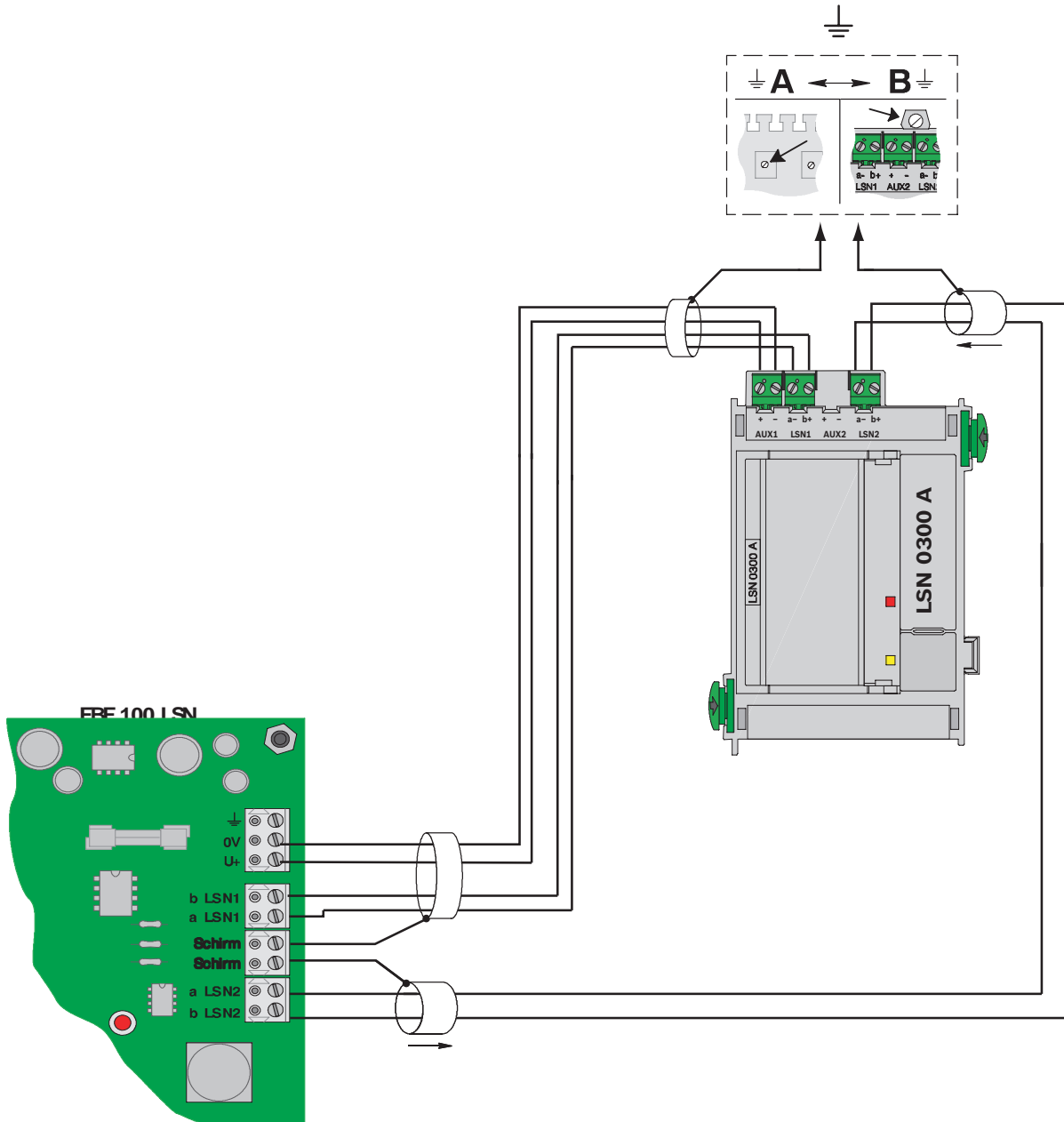
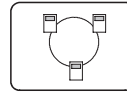
BAT 100 LSN
ATG 420 LSNi

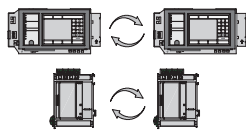




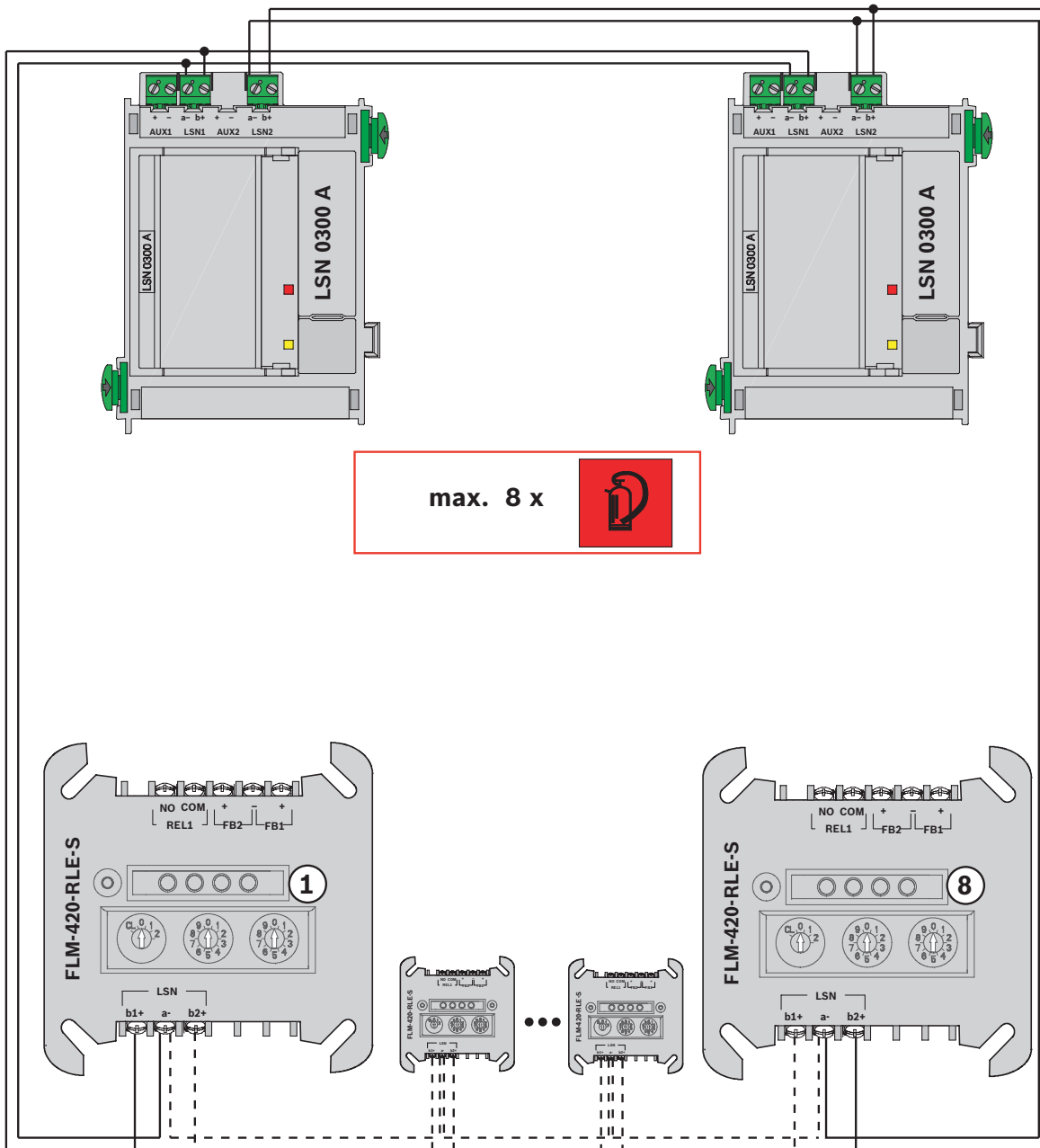
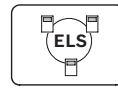


FBF 100 LSN



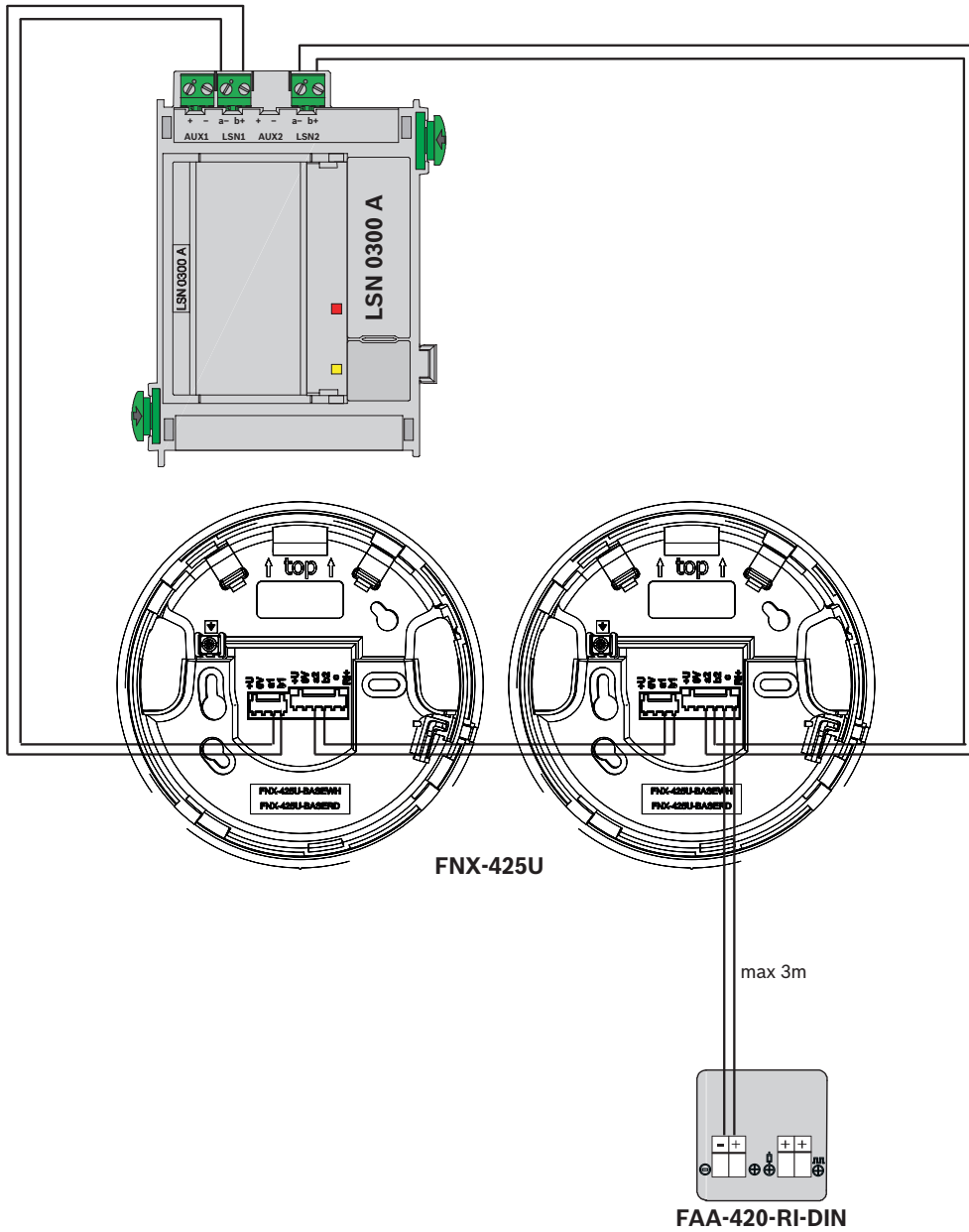
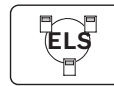


FLM-420-RLE-S





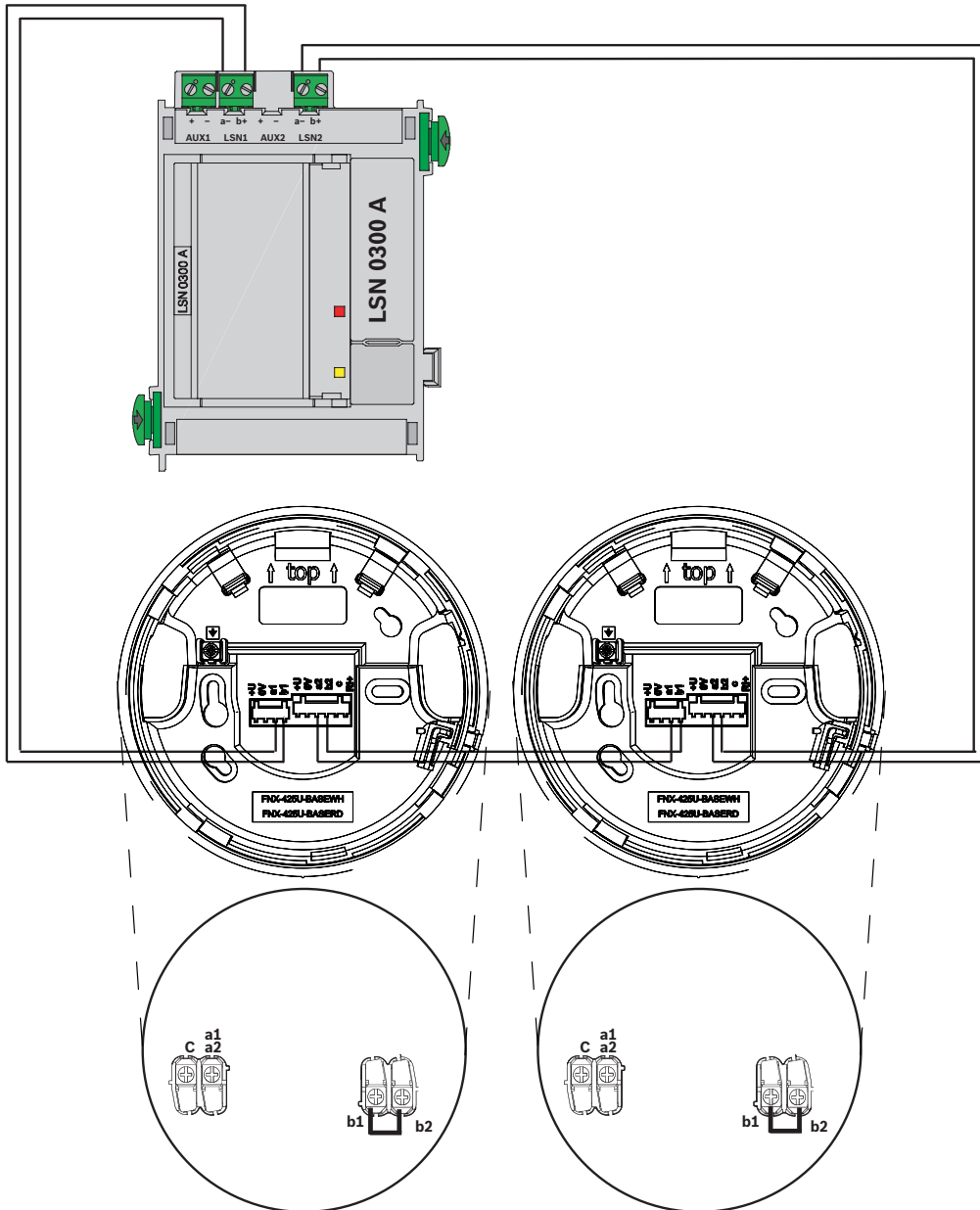
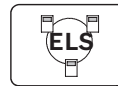
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FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD

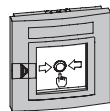




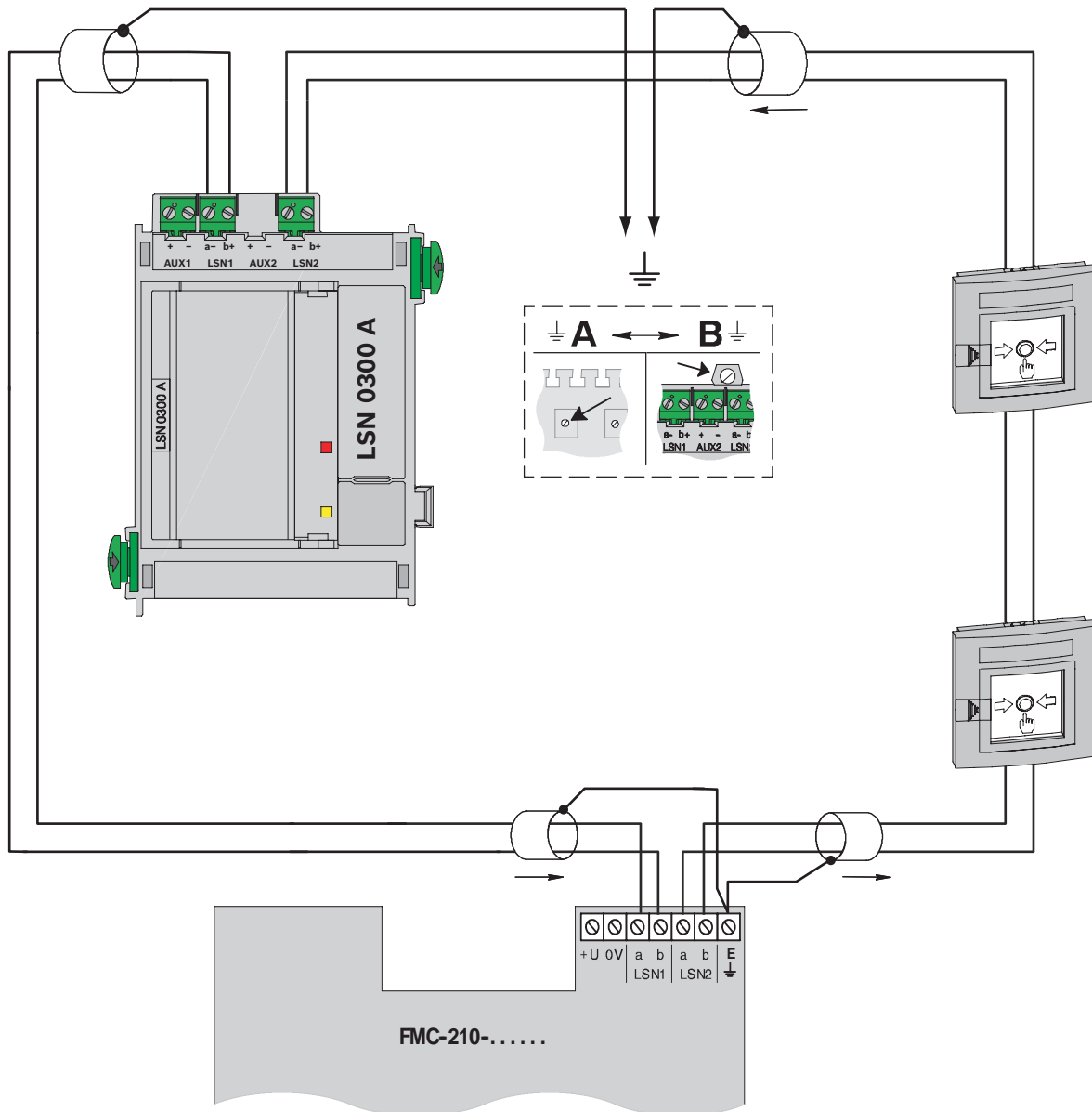
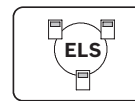
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

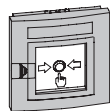
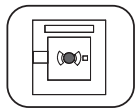
+ FNX-425U-COVWH
 FNX-425U-COVRD



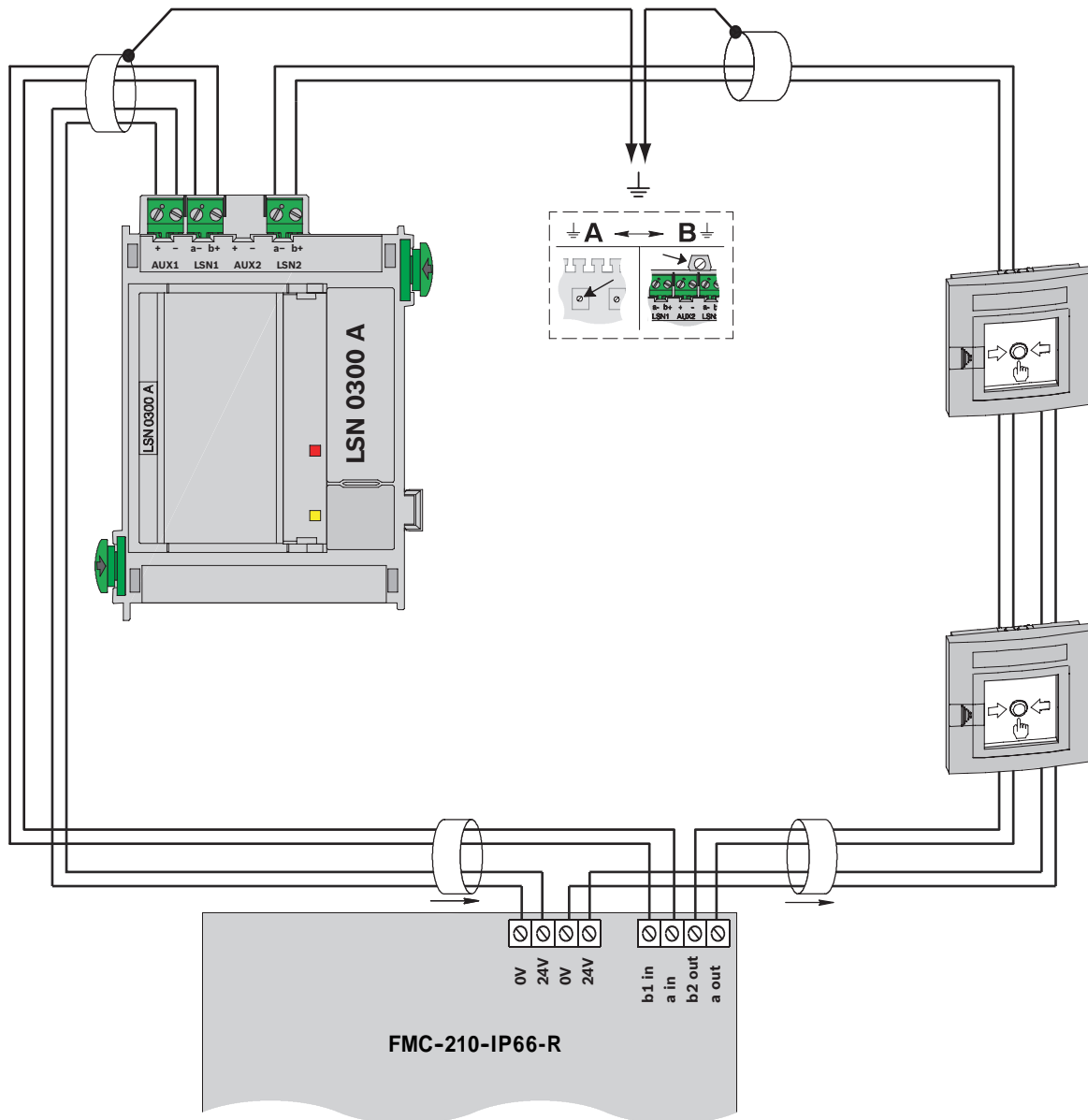
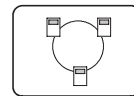


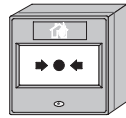
FMC-210...



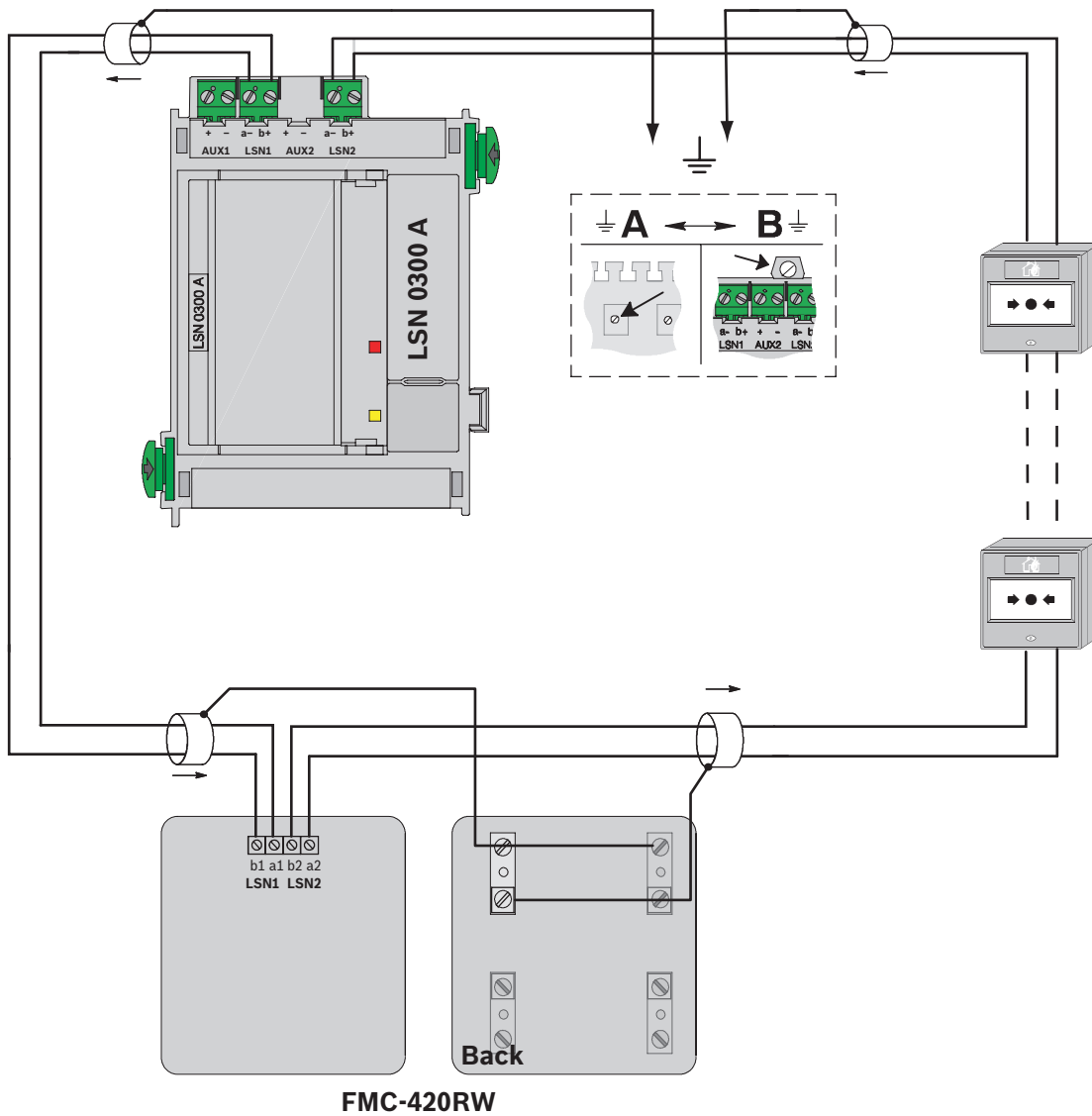
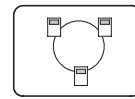


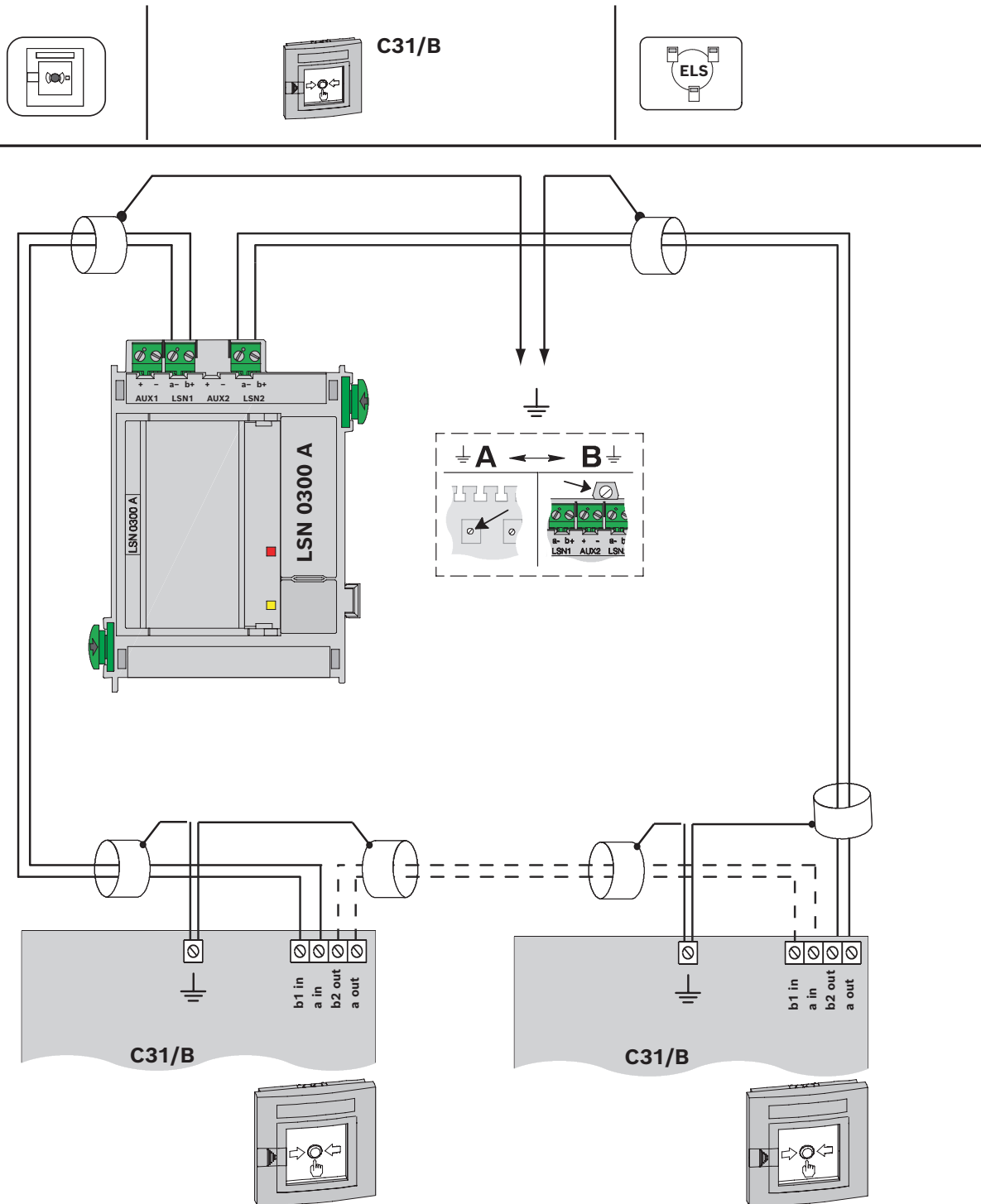
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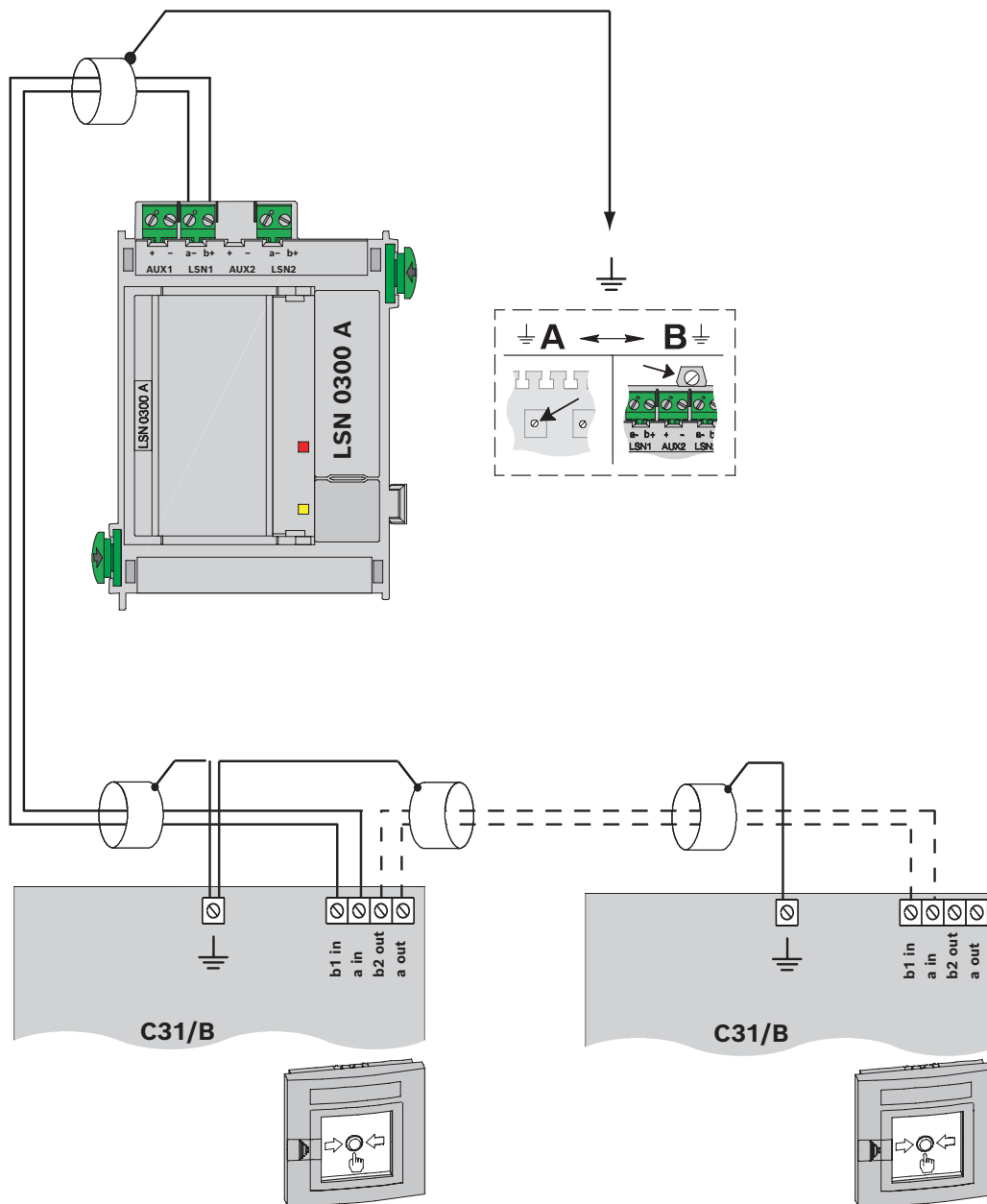
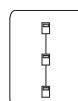
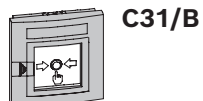
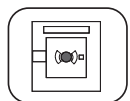


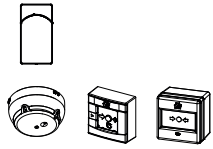


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD



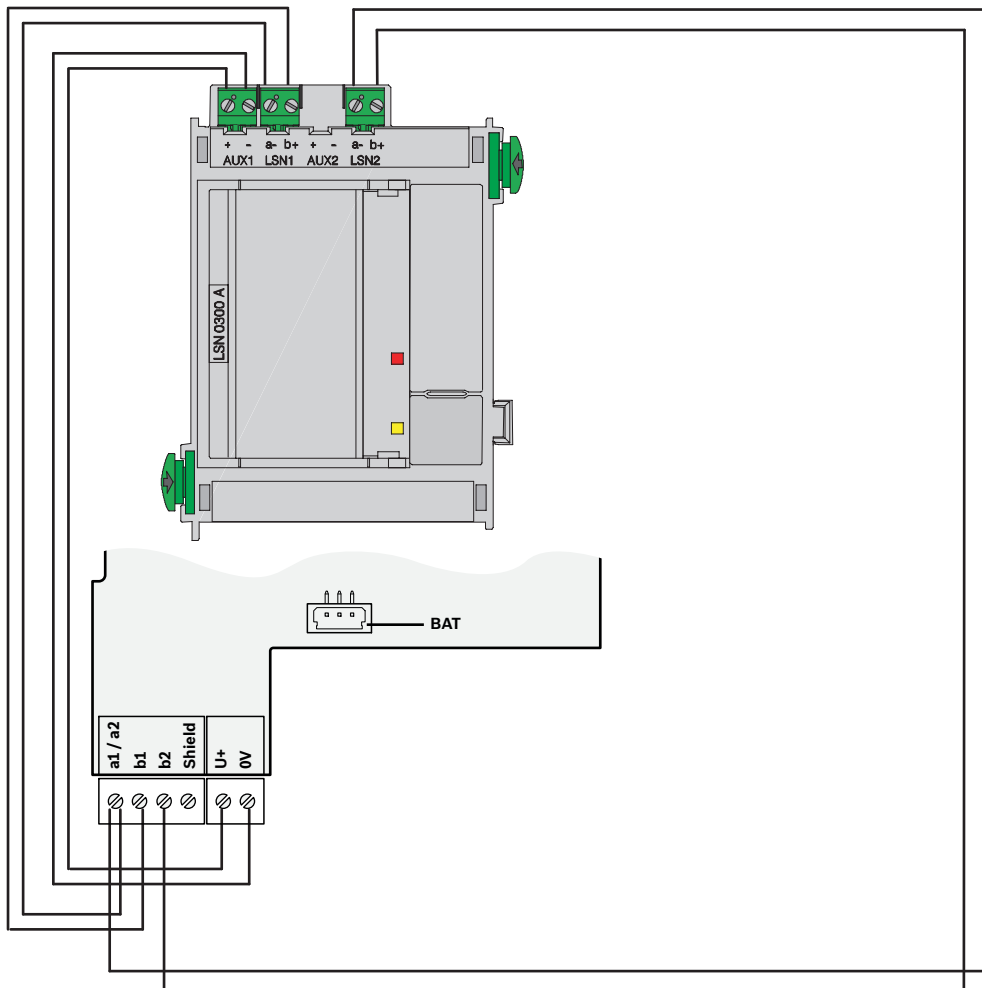
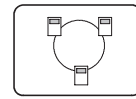






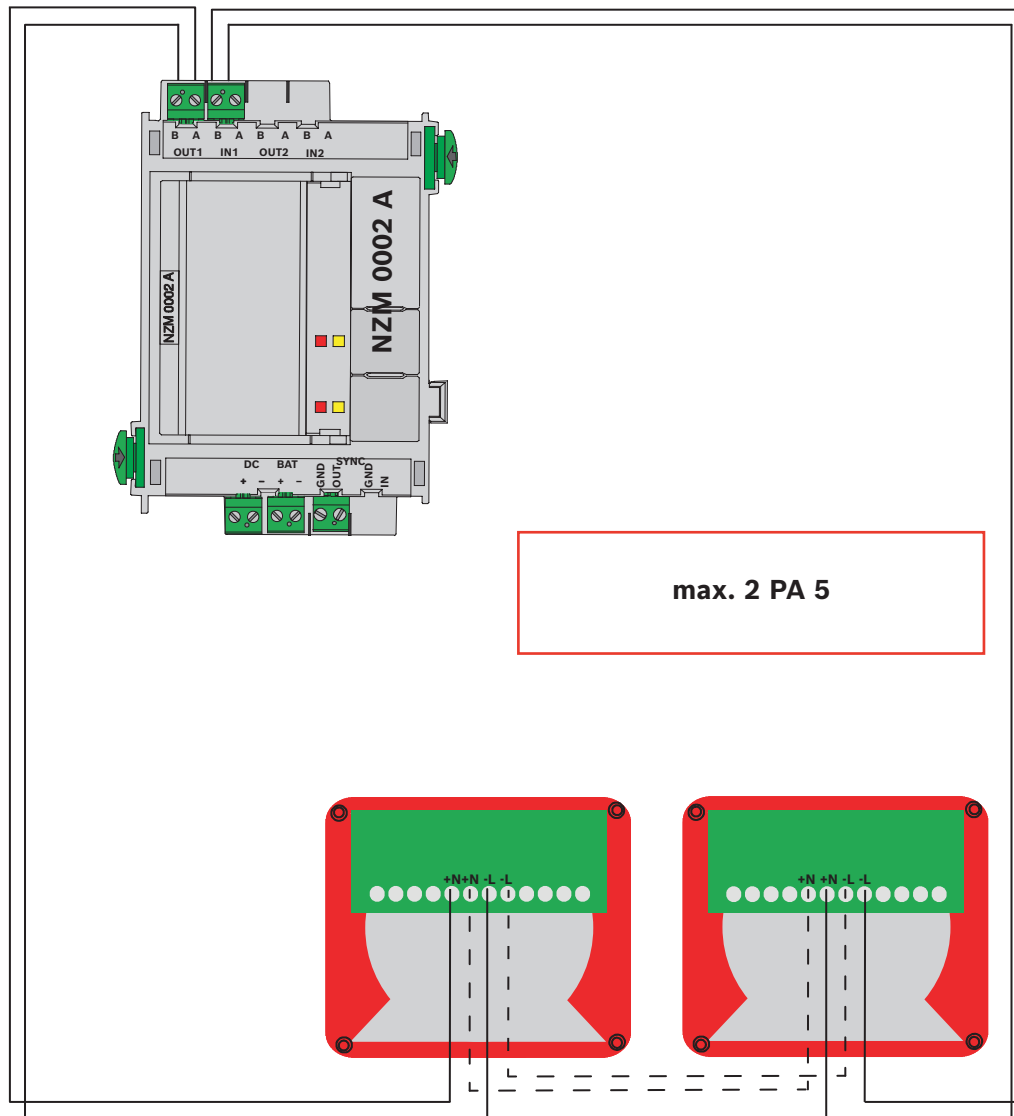
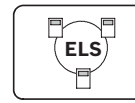
FWI-270

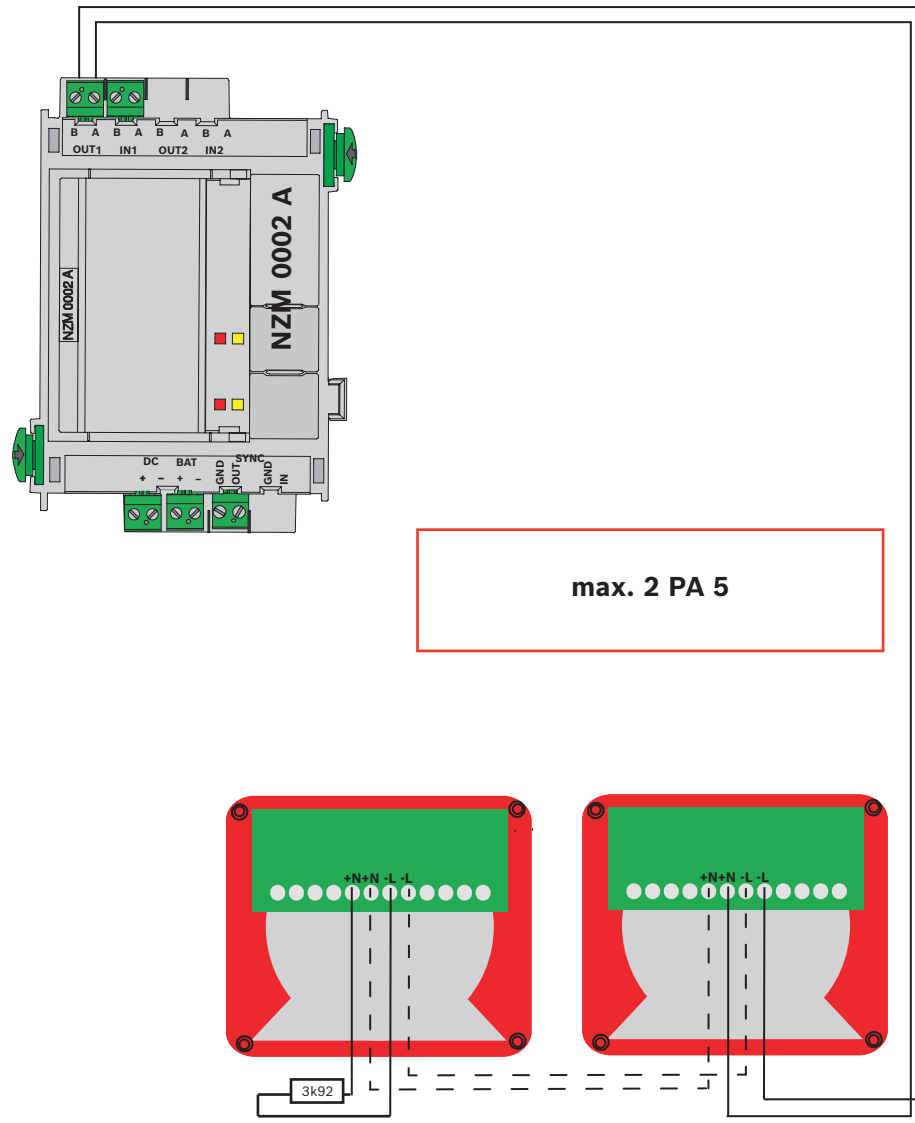
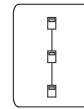
FDOOT271-O
FDM275-O
FDM273-O

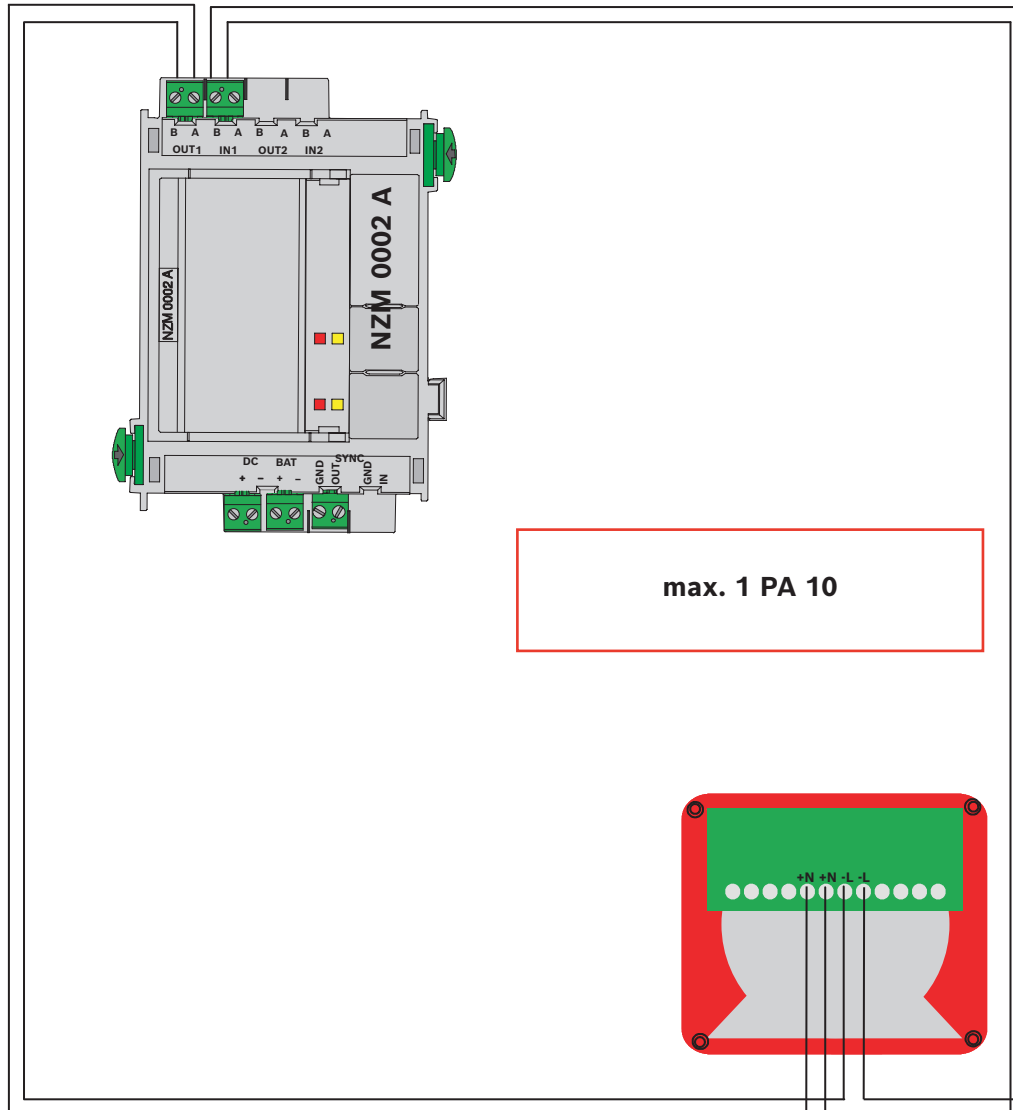
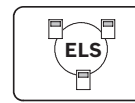


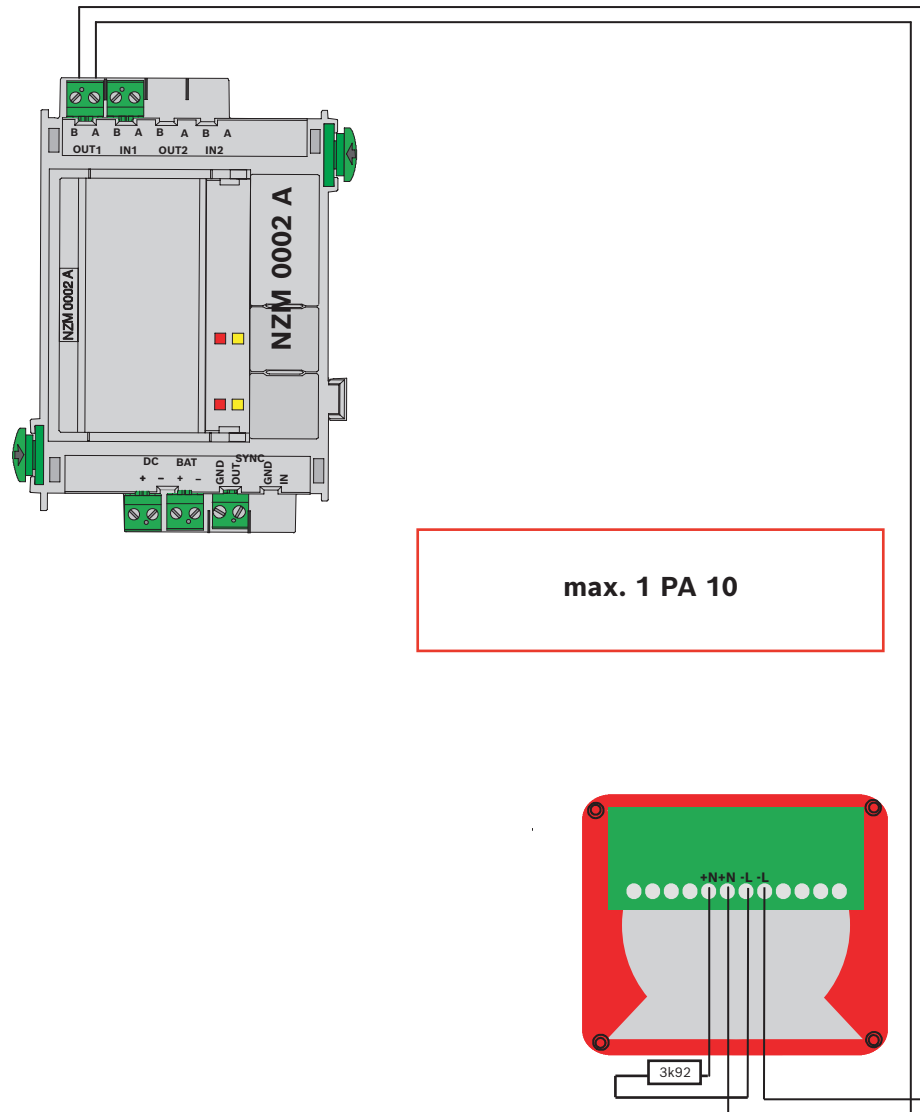
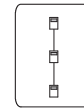
2.4.5

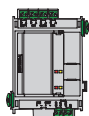
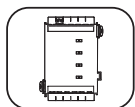
NZM 0002 A



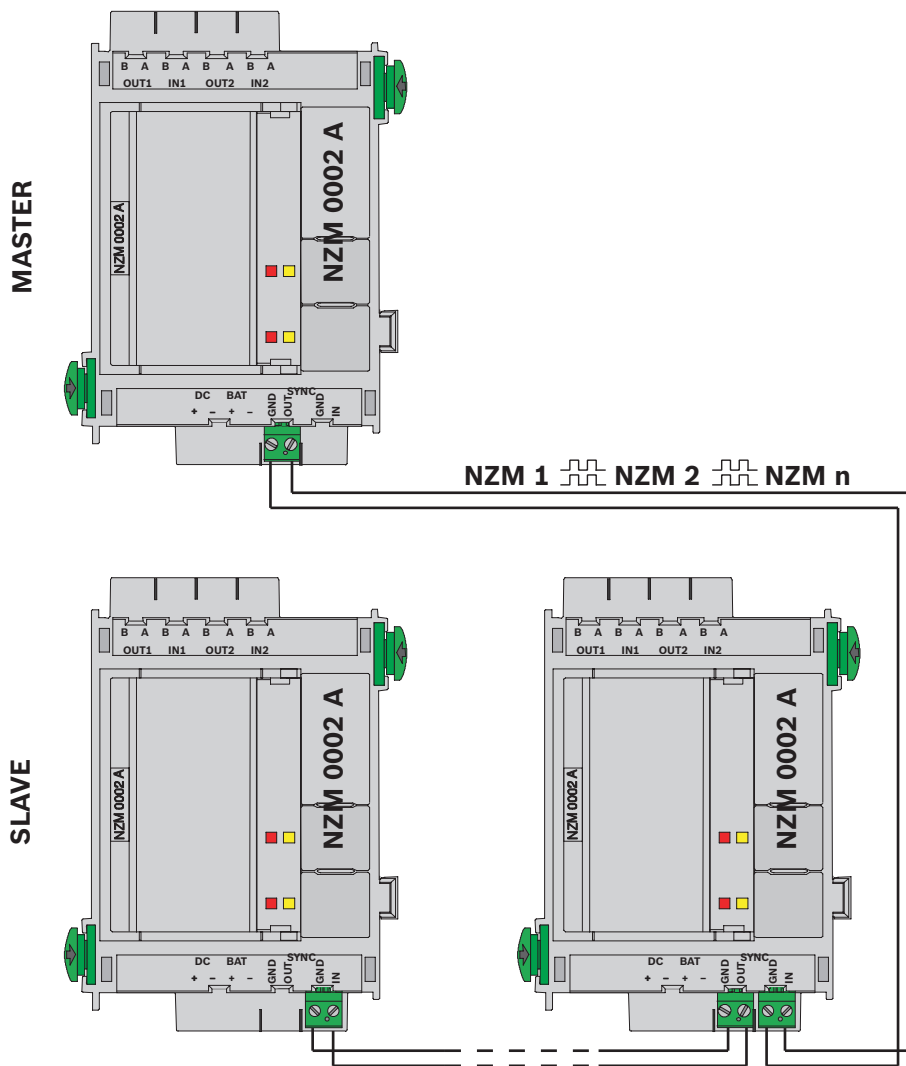


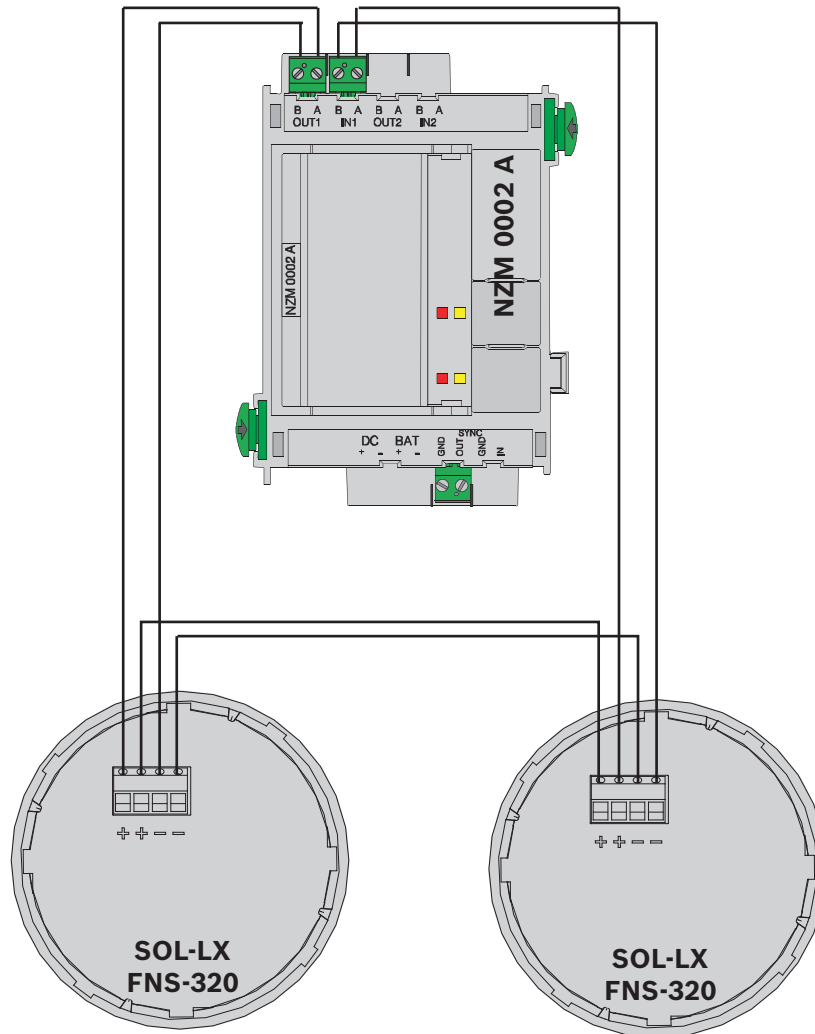
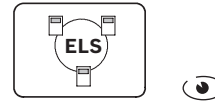


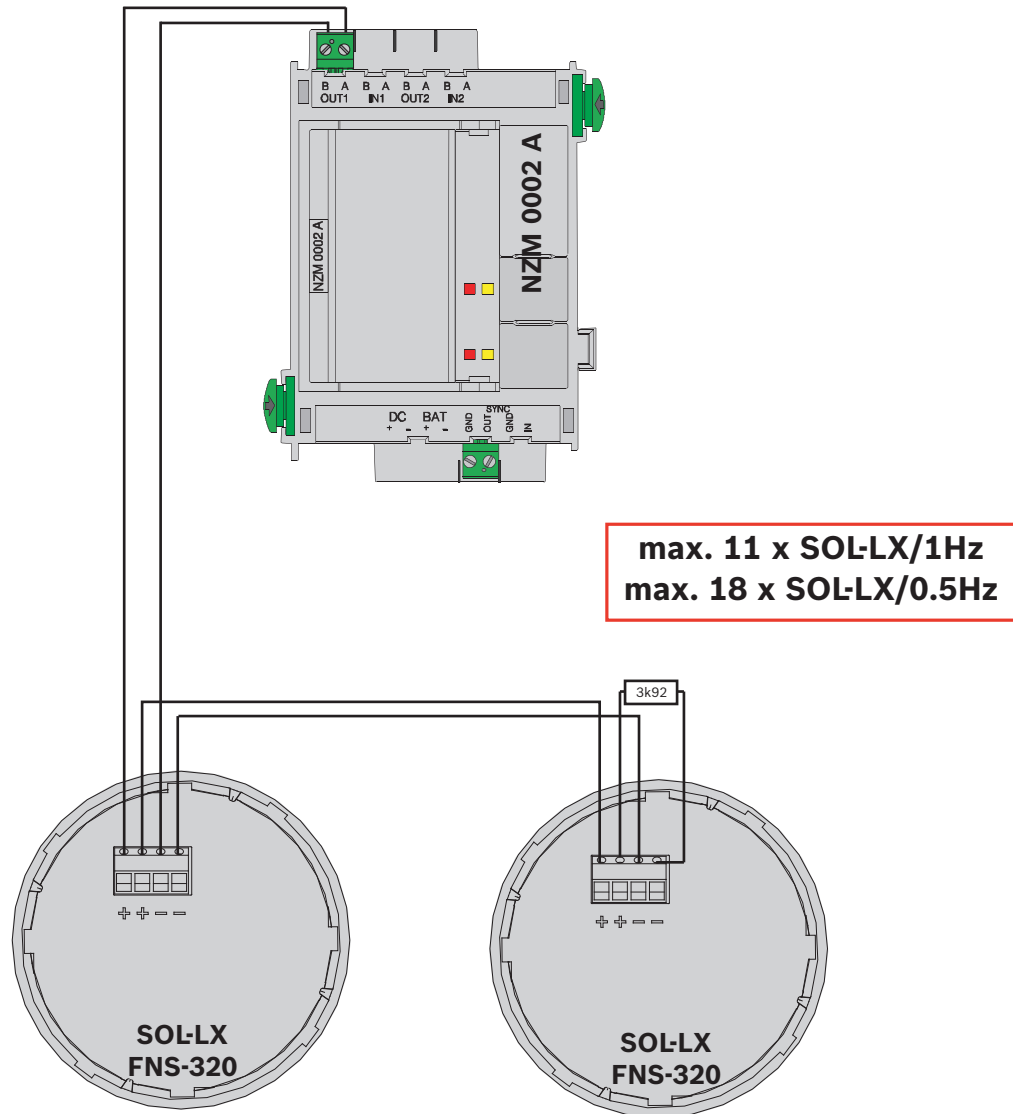
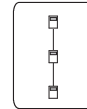


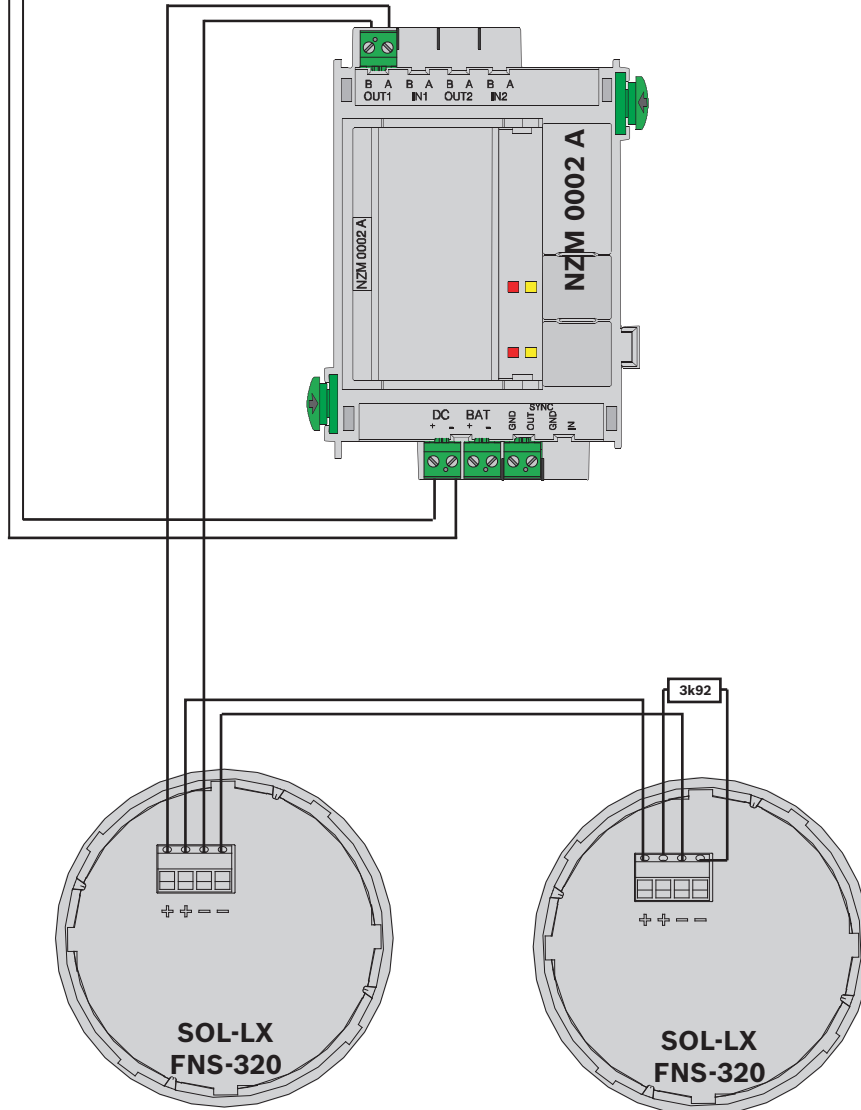
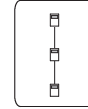


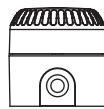
NZM 0002 A



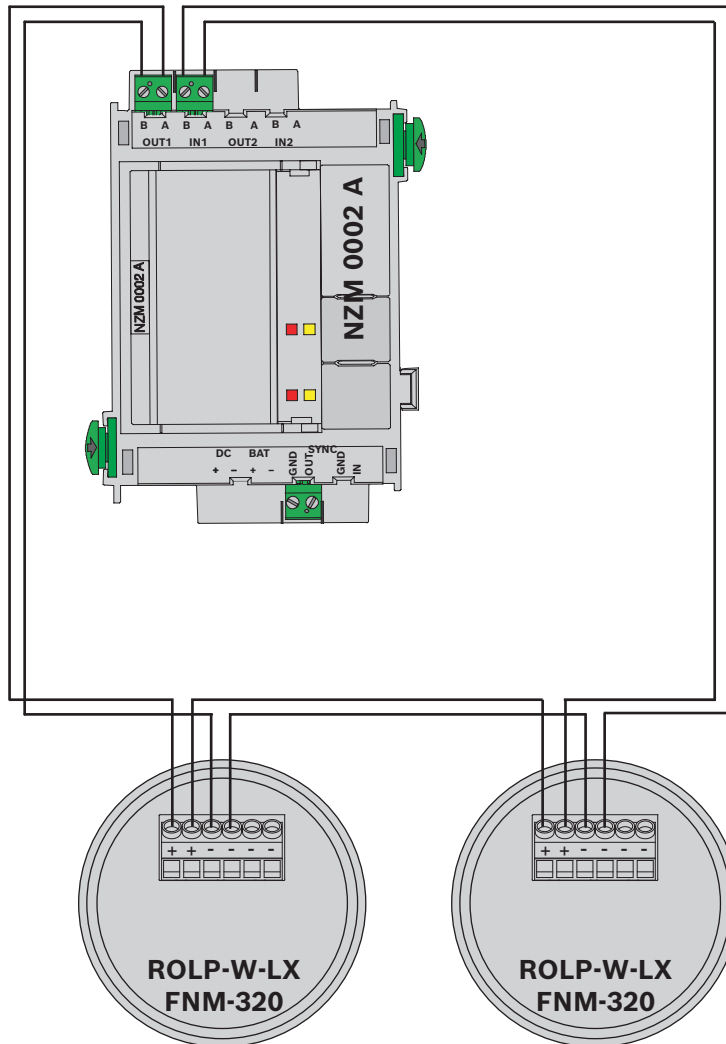
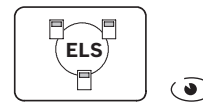


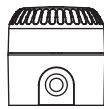




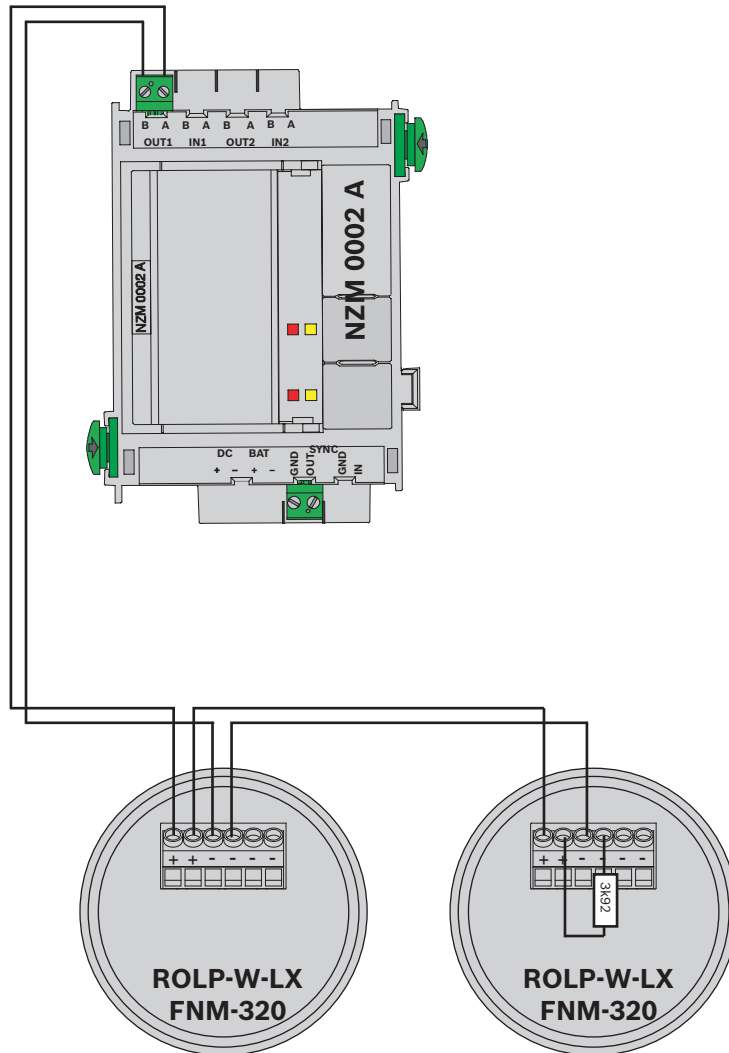
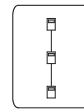


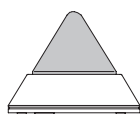
**ROLP-W-LX
FNM-320**



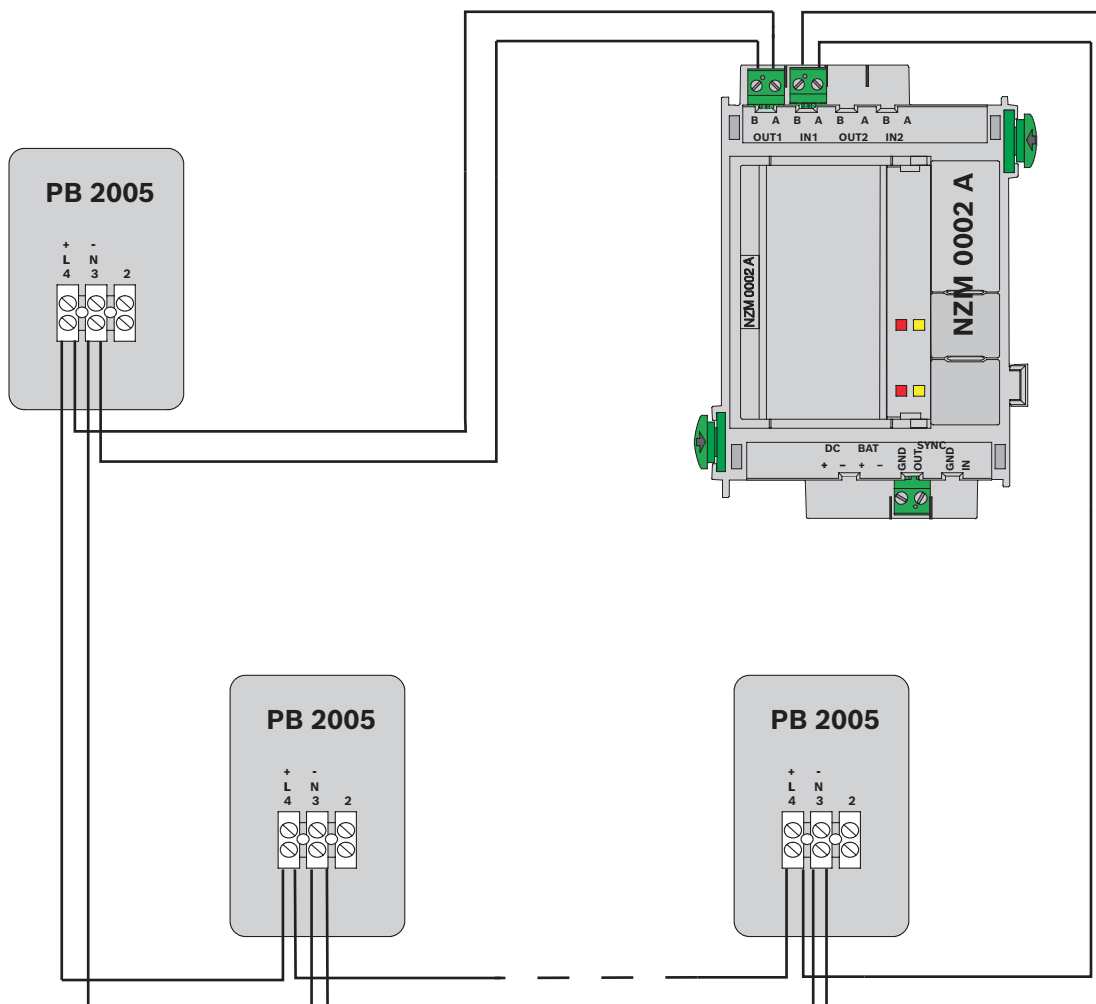
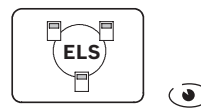


**ROLP-W-LX
FNM-320**



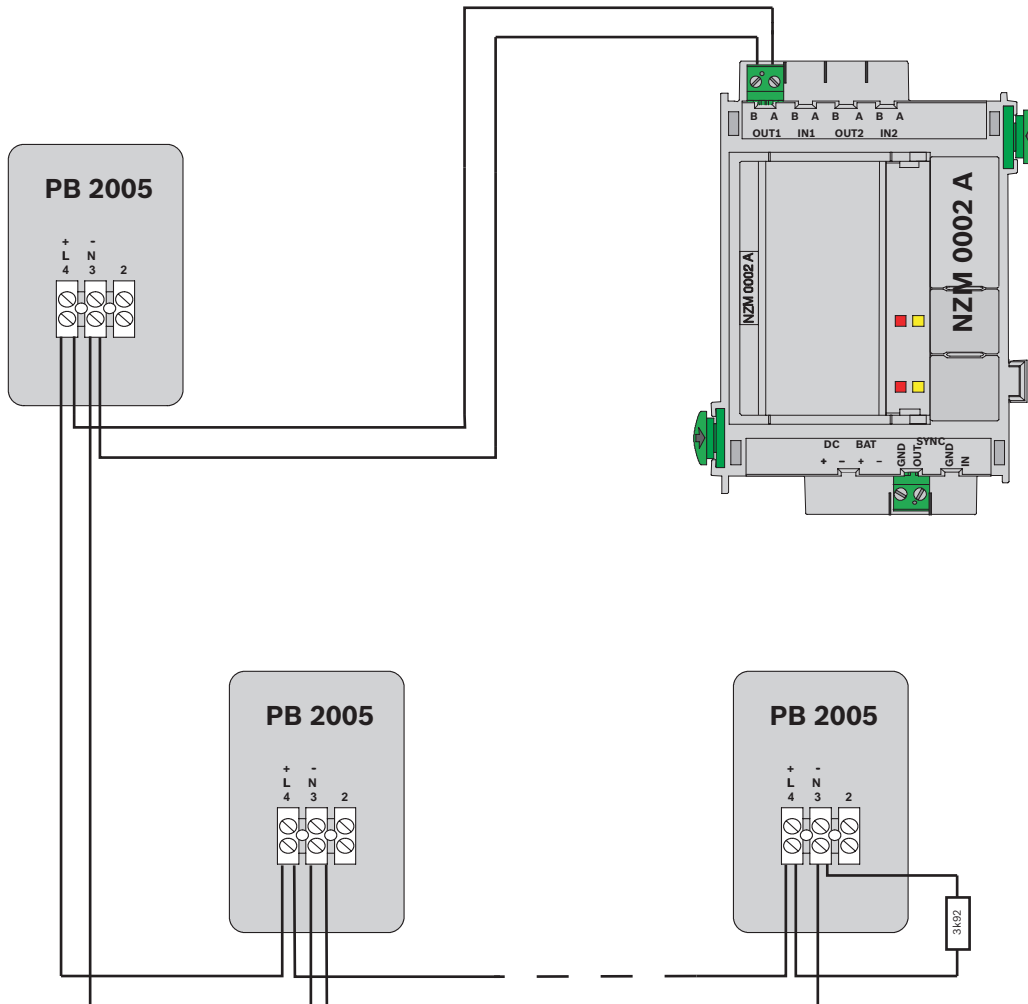
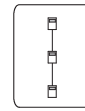


PB 2005



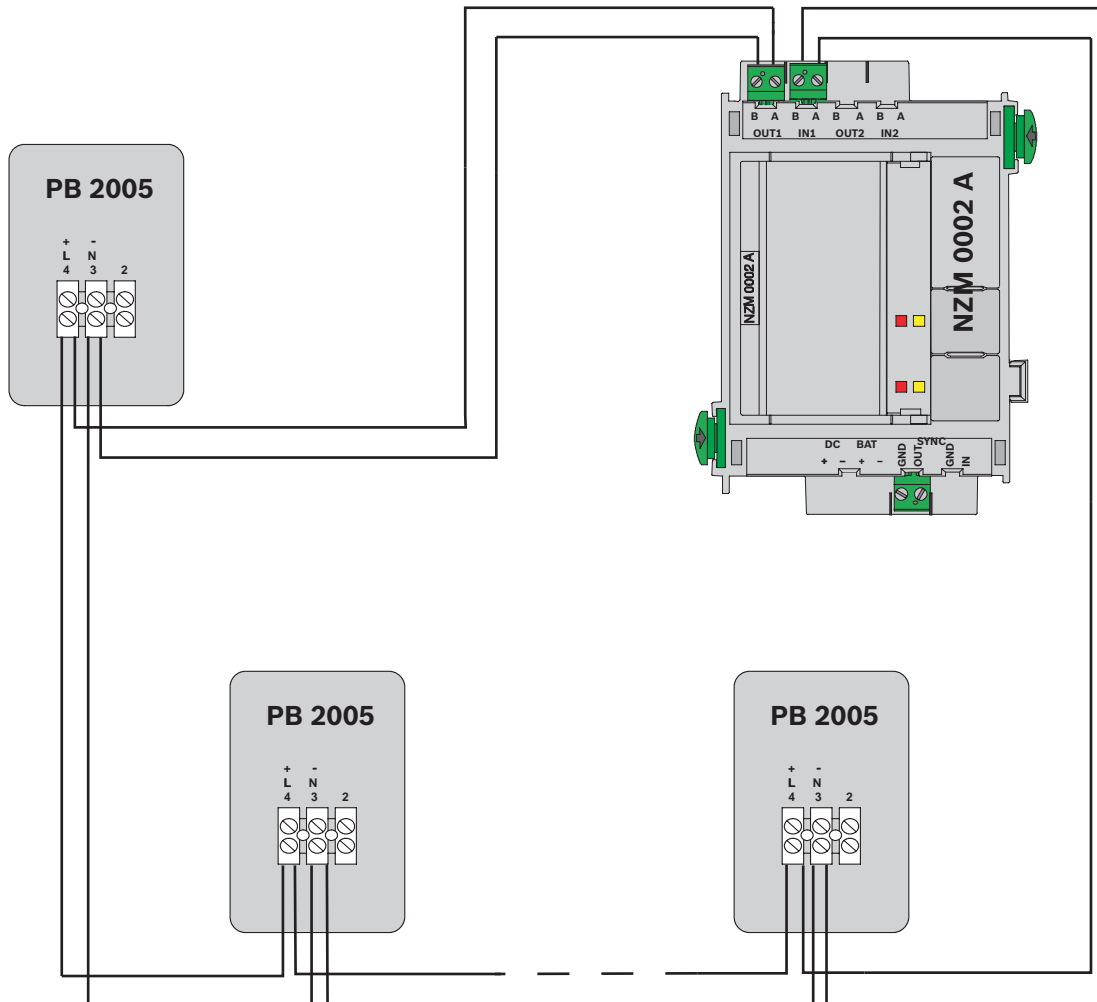
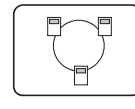


PB 2005



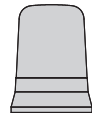


PB 2005

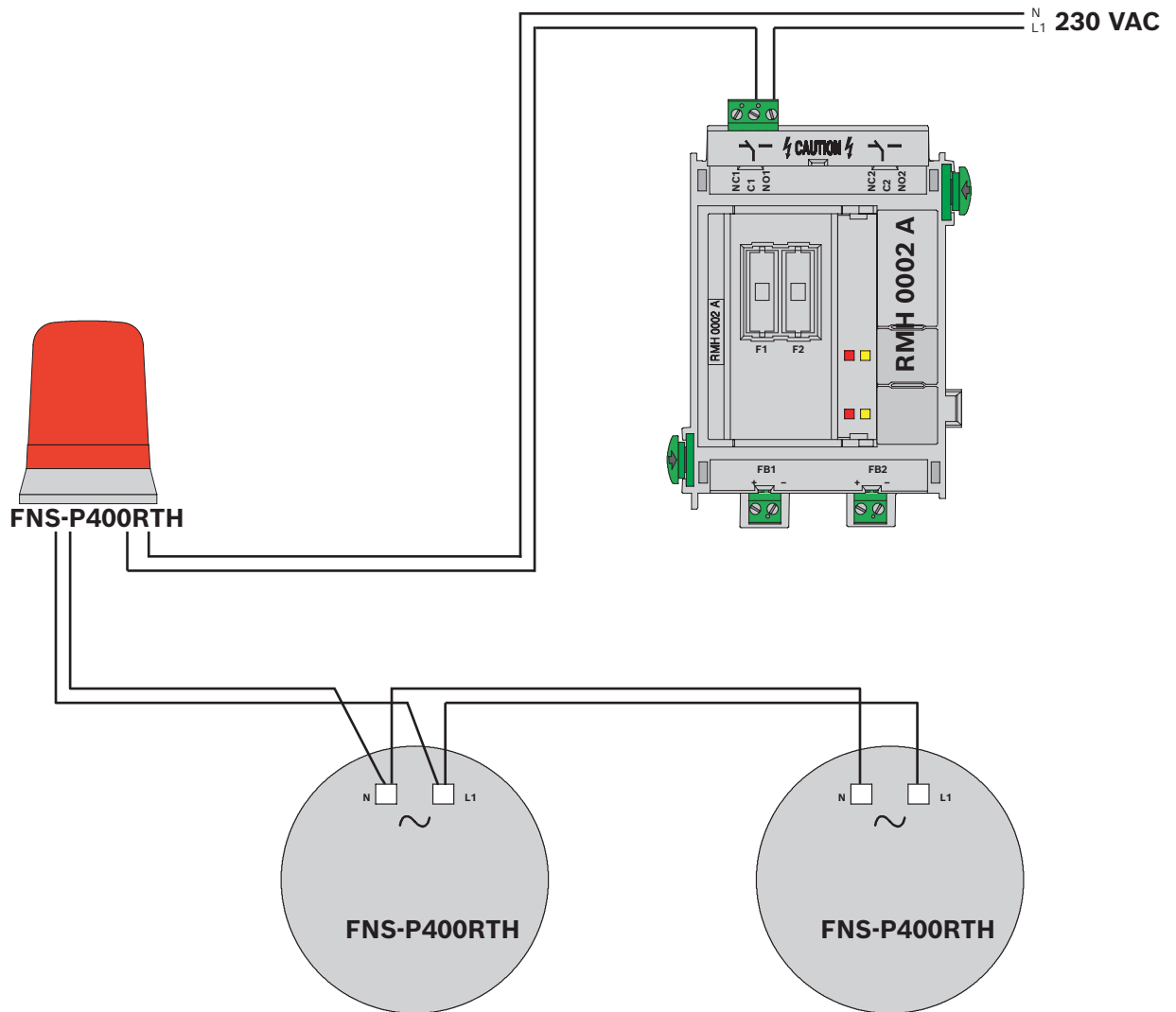
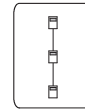


2.4.6

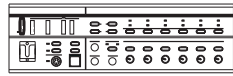
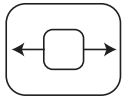
RMH 0002 A



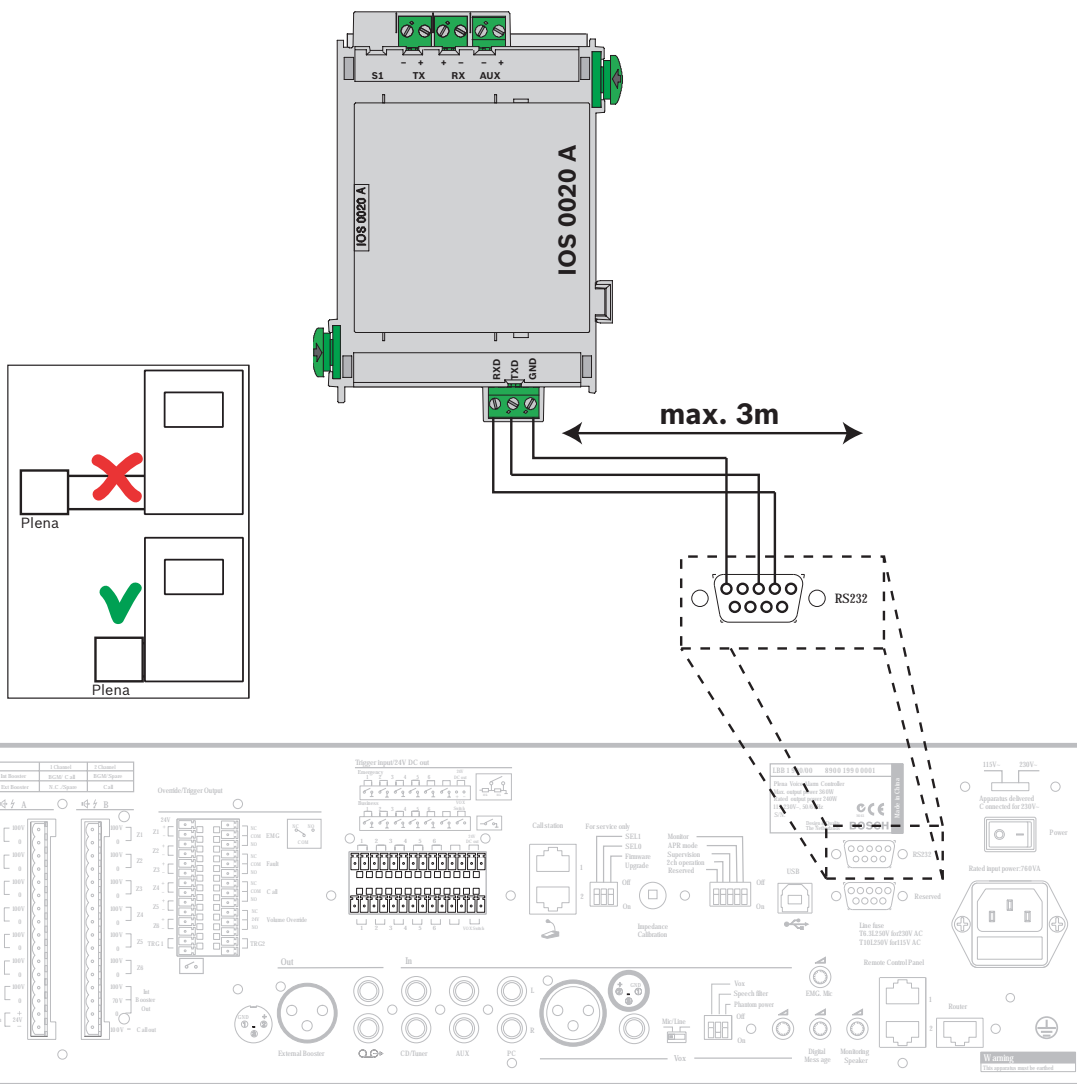
FNS-P400RTH



2.4.7 IOS 0020 A



Plena

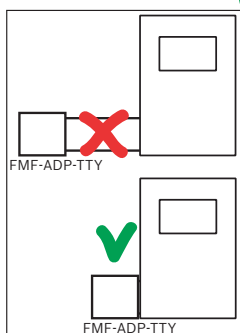
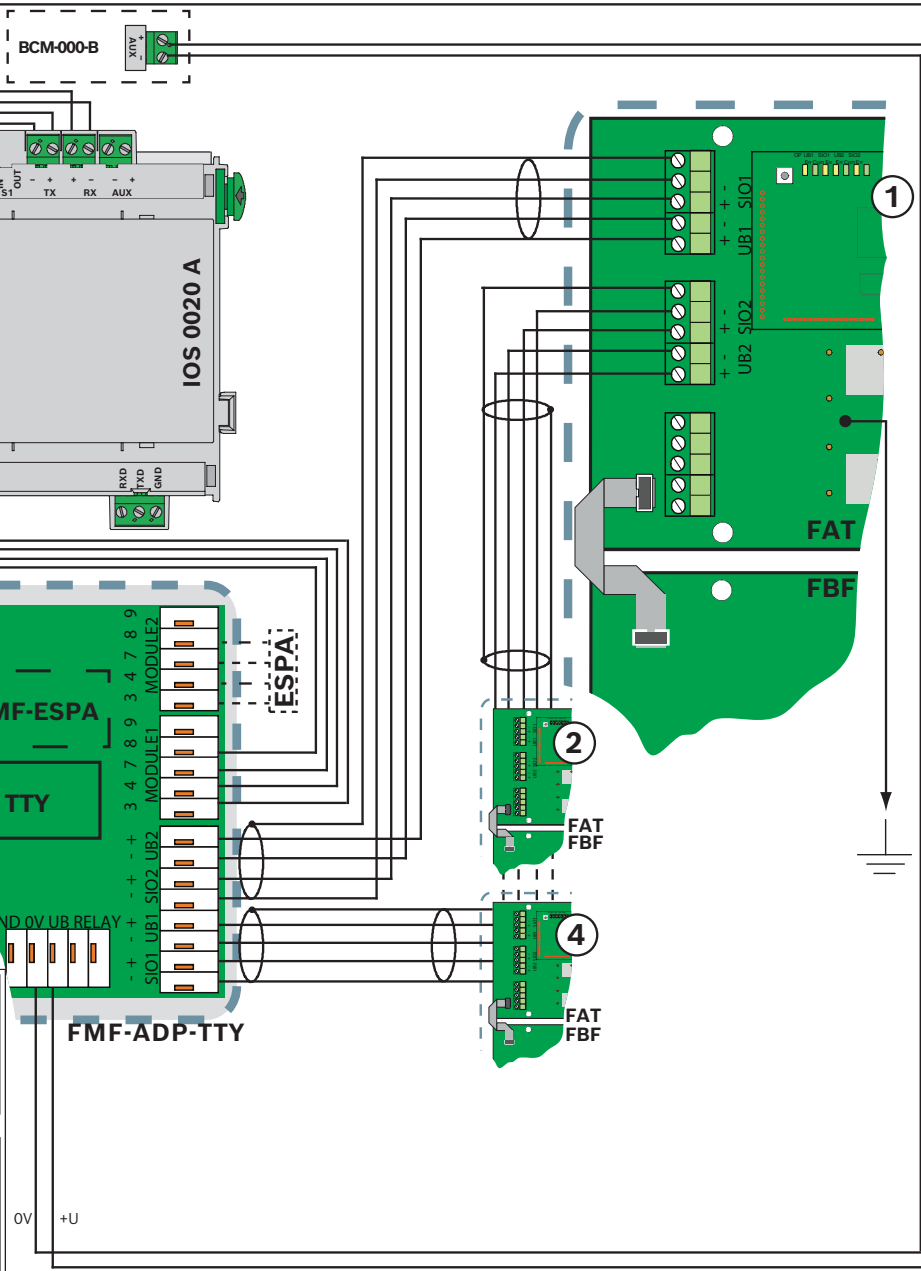




FAT4000 FBF4000 ADP4000

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

ELS

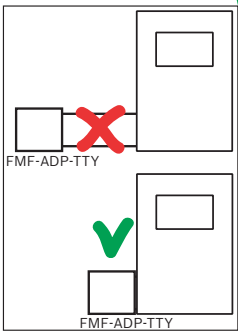
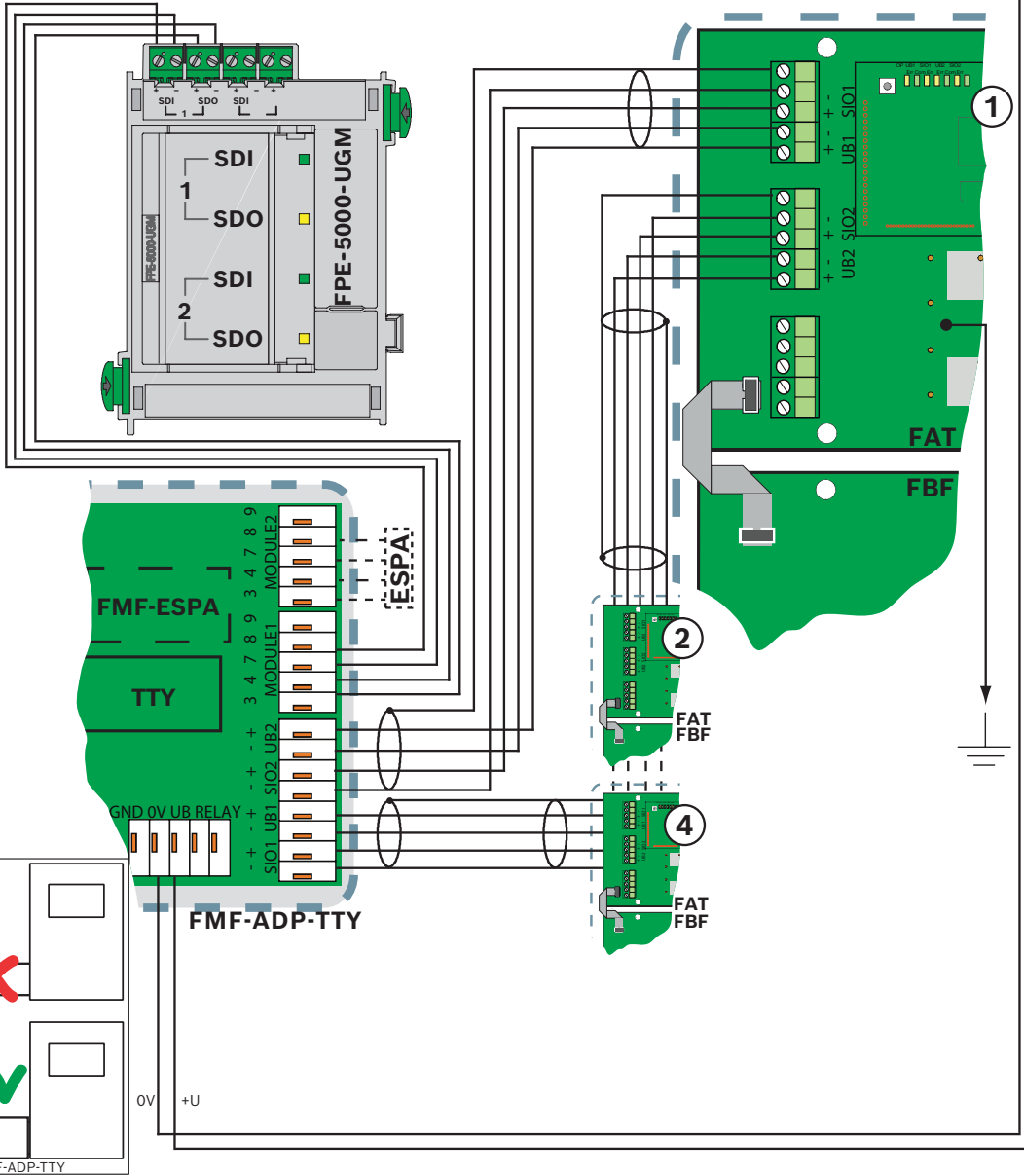


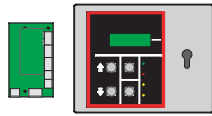
2.4.8 FPE-5000-UGM



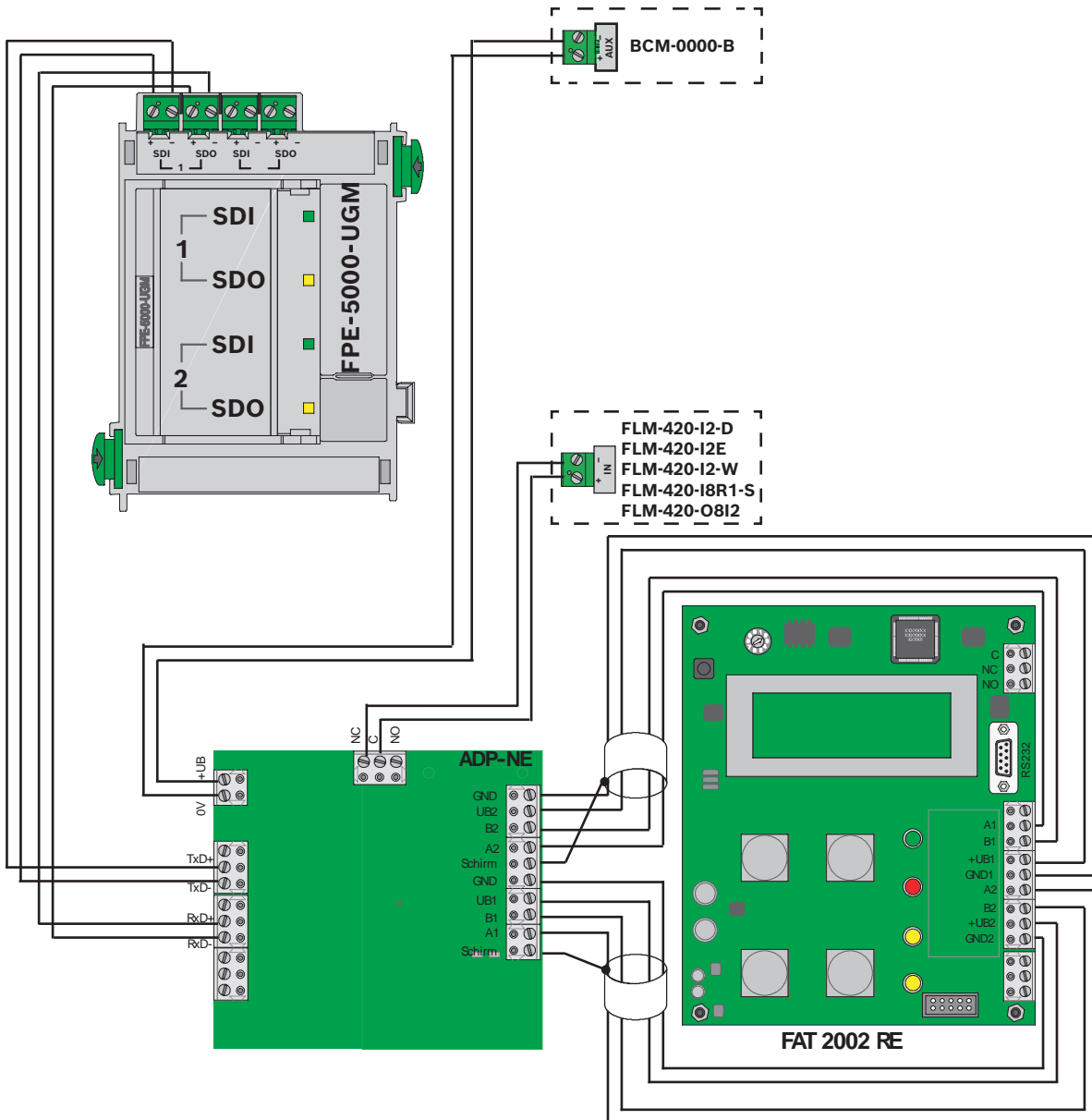
FAT4000 FBF4000 ADP4000
 FMF-FAT FMF-FBF-FAT
 FMF-FIBS-A4/-A3
 FMF-ADP

ELS





**FAT2002RE
ADP-NE**



2.5

Modules d'interface



FLM-420-4/CON-D/S, page 125

FLM-420-I8R1-S, page 158

FLM-420-NAC-D/S, page 160

FLM-420-RHV, page 172

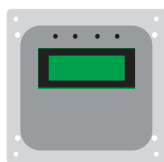
FLM-420-RLE-S, page 184

FLM-420-RLV1-E, page 185

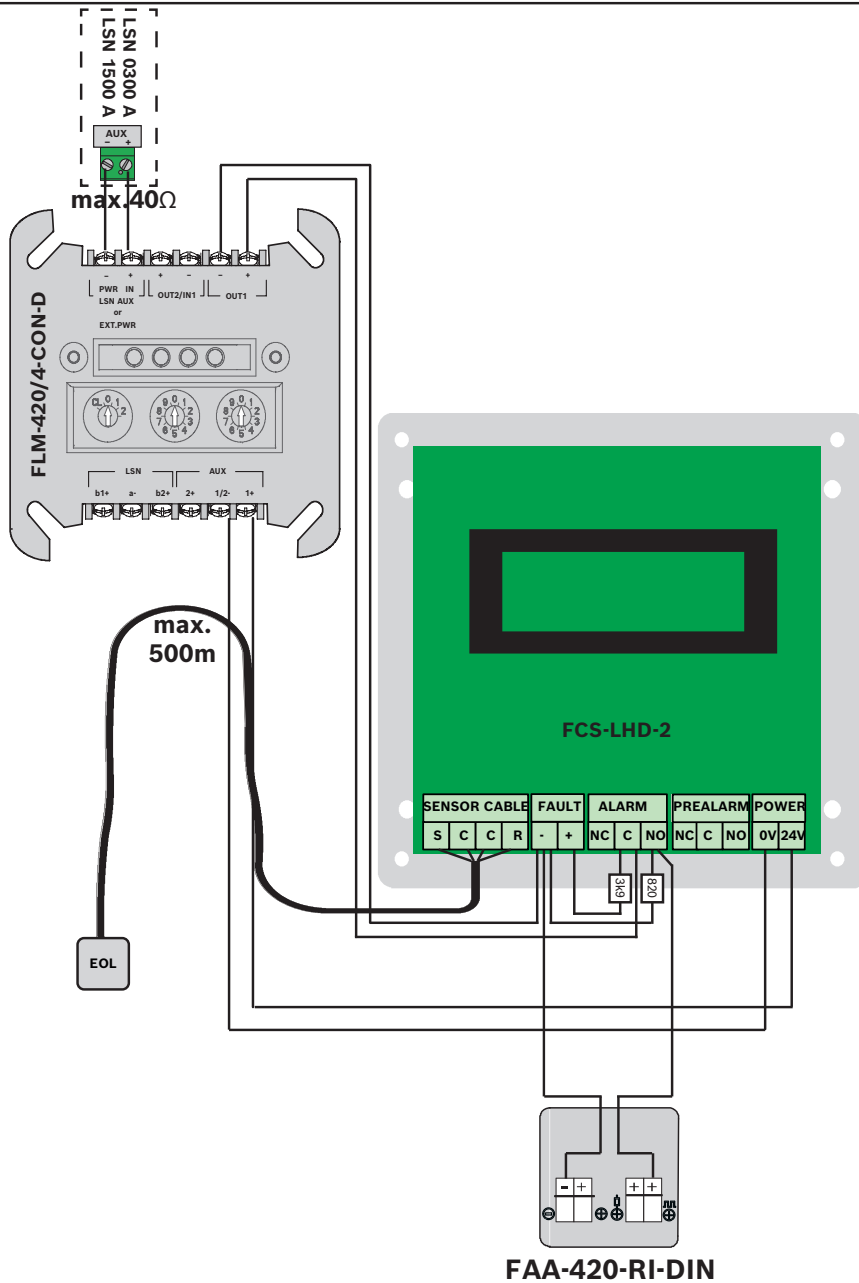
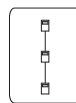
FLM-420-RLV8-S, page 186

FMF-ADP-FBF/FMF-ADP-TTY, page 187

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

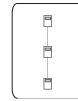


ALARMLINE II



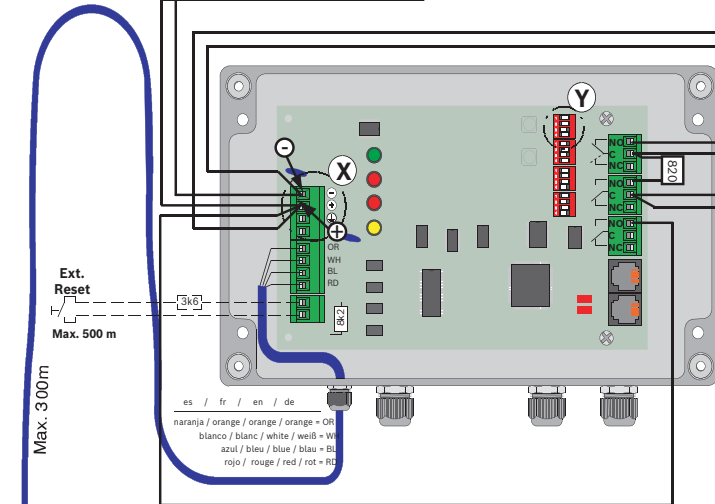
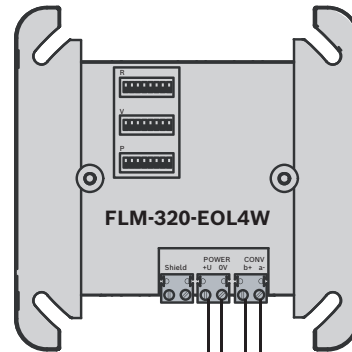
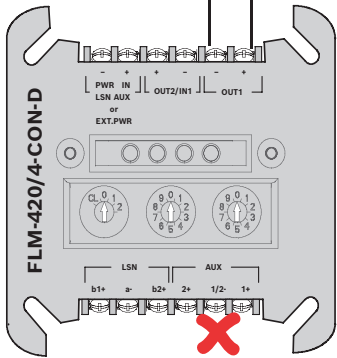


FCS-LWM-1



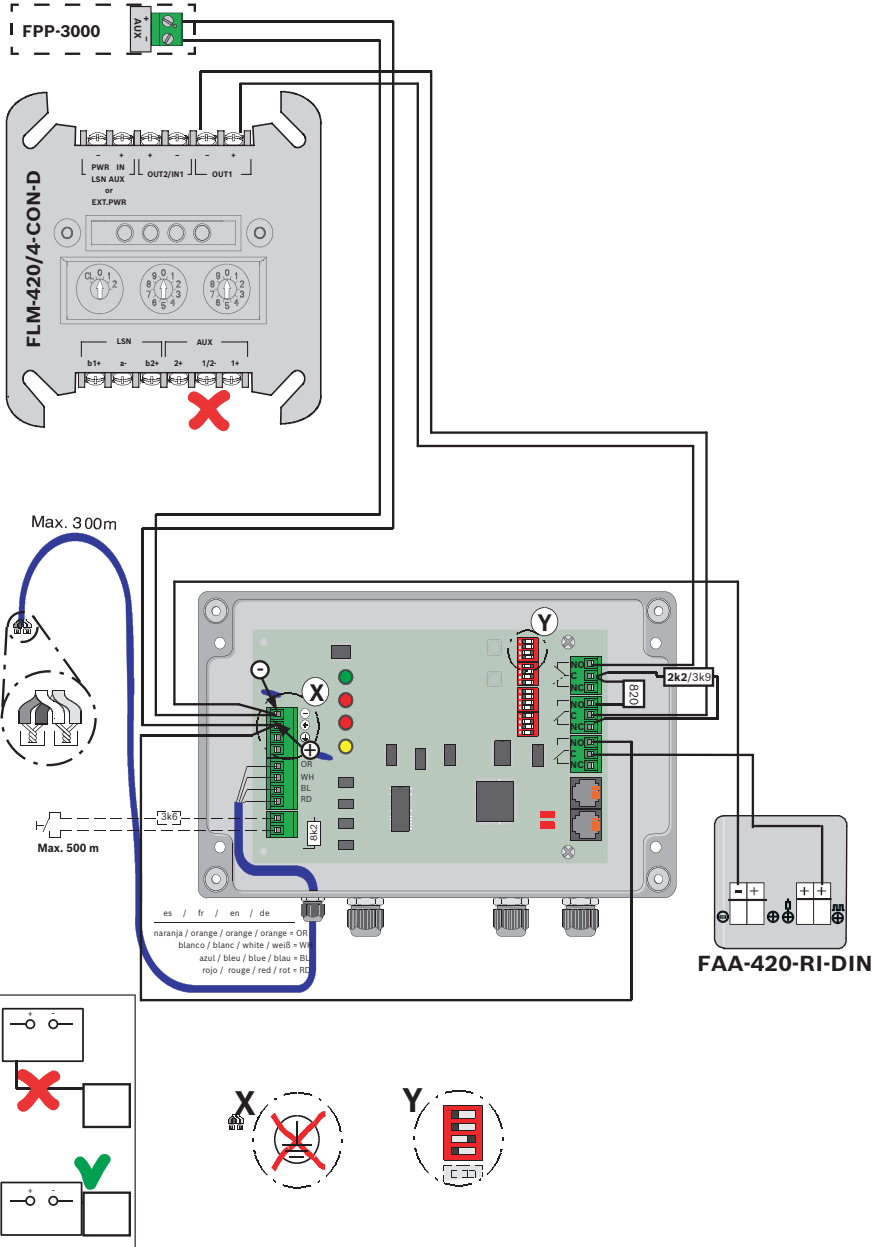
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



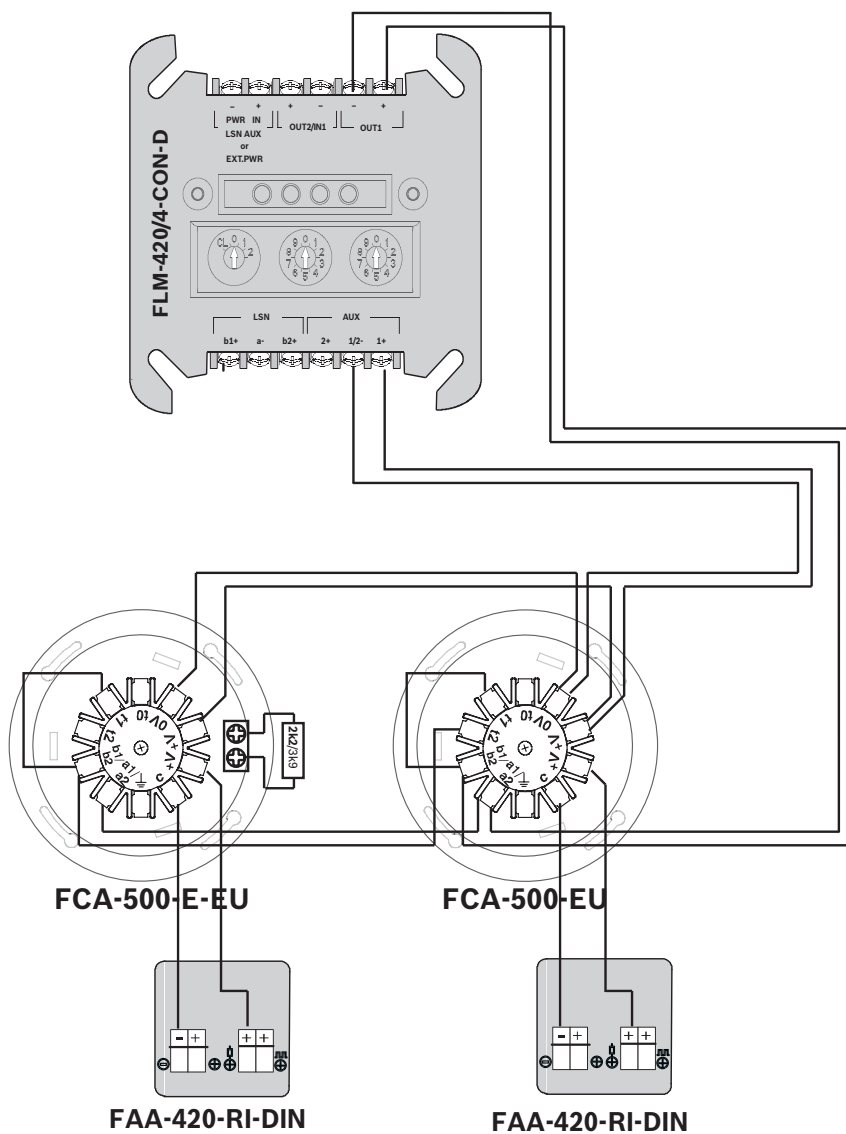


FCS-LWM-1



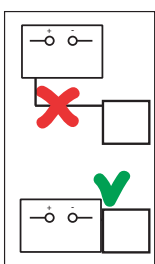
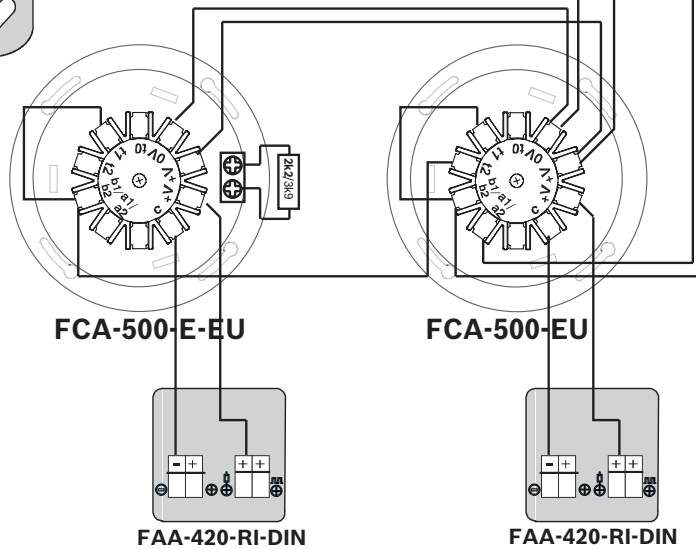
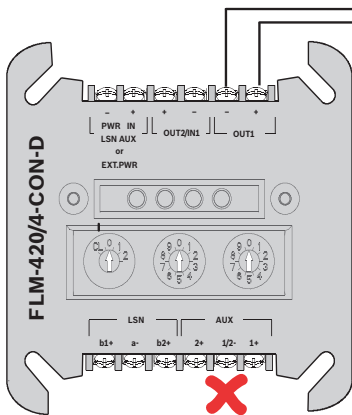


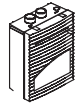
FCP-500



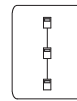


FCA-500-EU
 FCP-O 500
 FCP-O 500-P
 FCP-OC 500
 FCP-OC 500-P

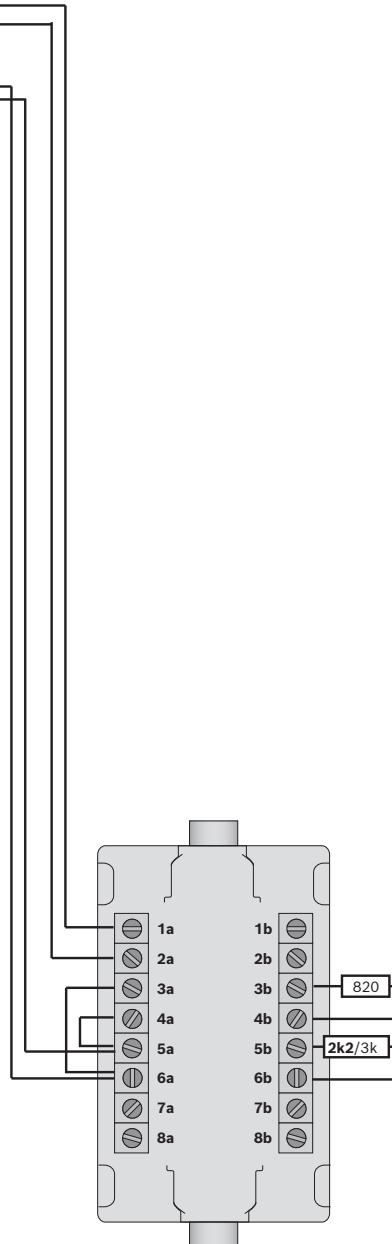
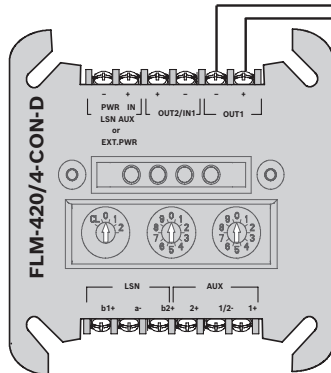


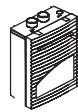


FCS-320-TM Series

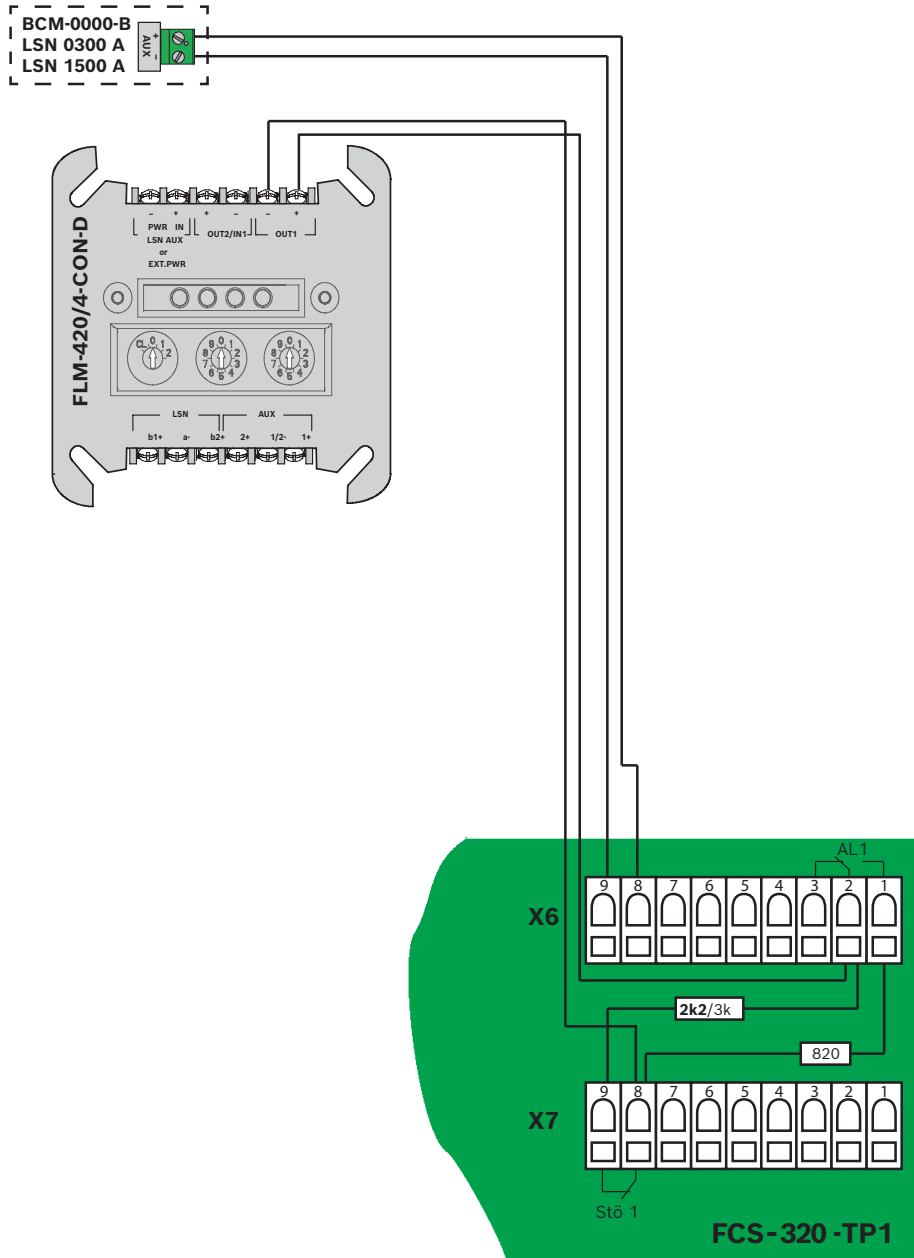
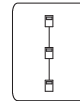


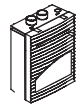
BCM-0000-B
LSN 0300 A
LSN 1500 A



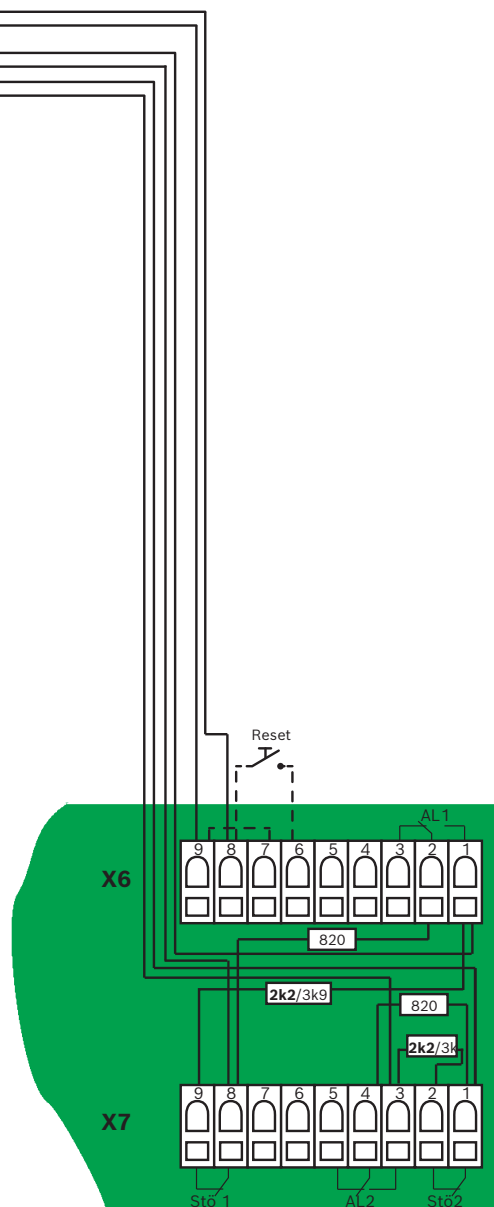
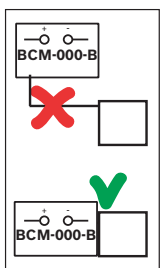
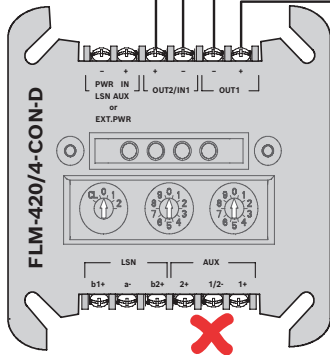
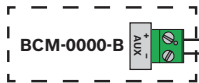
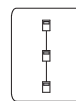


FCS-320-TP Series

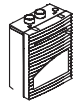




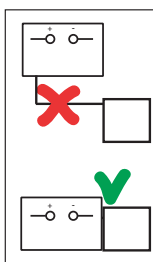
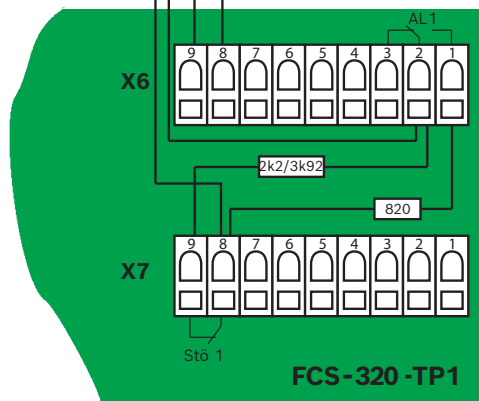
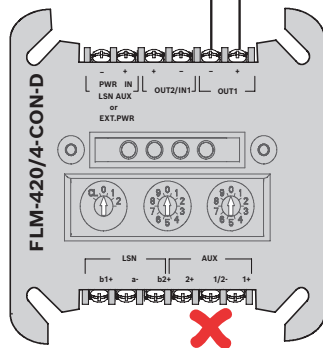
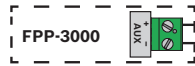
FCS-320-TP Series

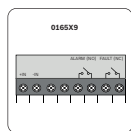


FCS-320-TP2

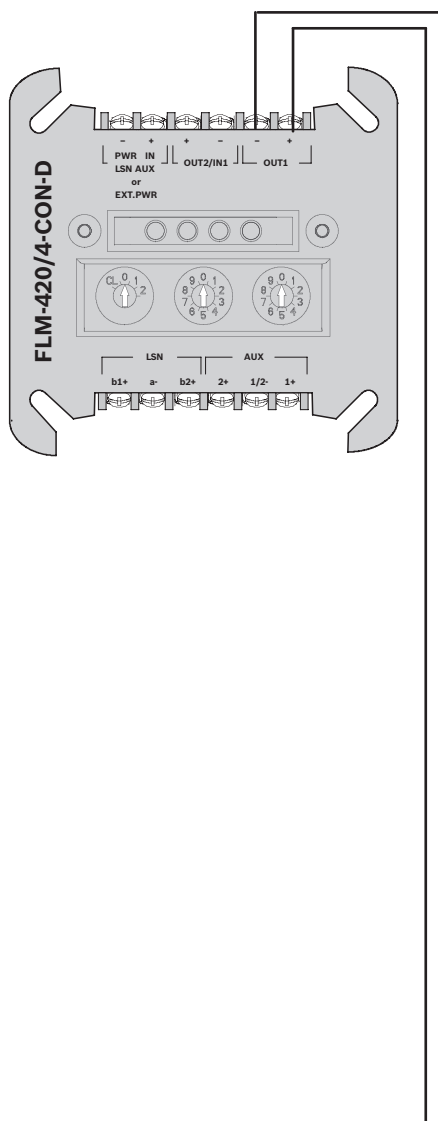
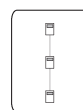


FCS-320-TP1

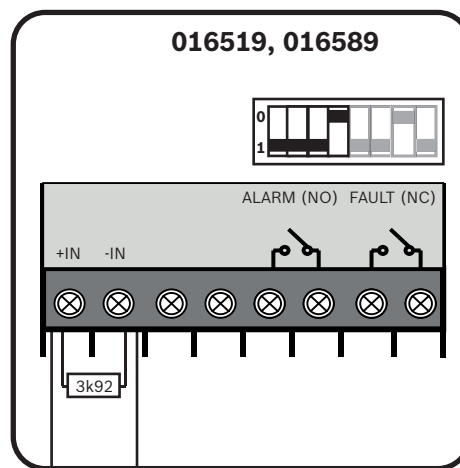


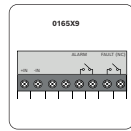


**016519, 016589
IR3 Flame Detector**

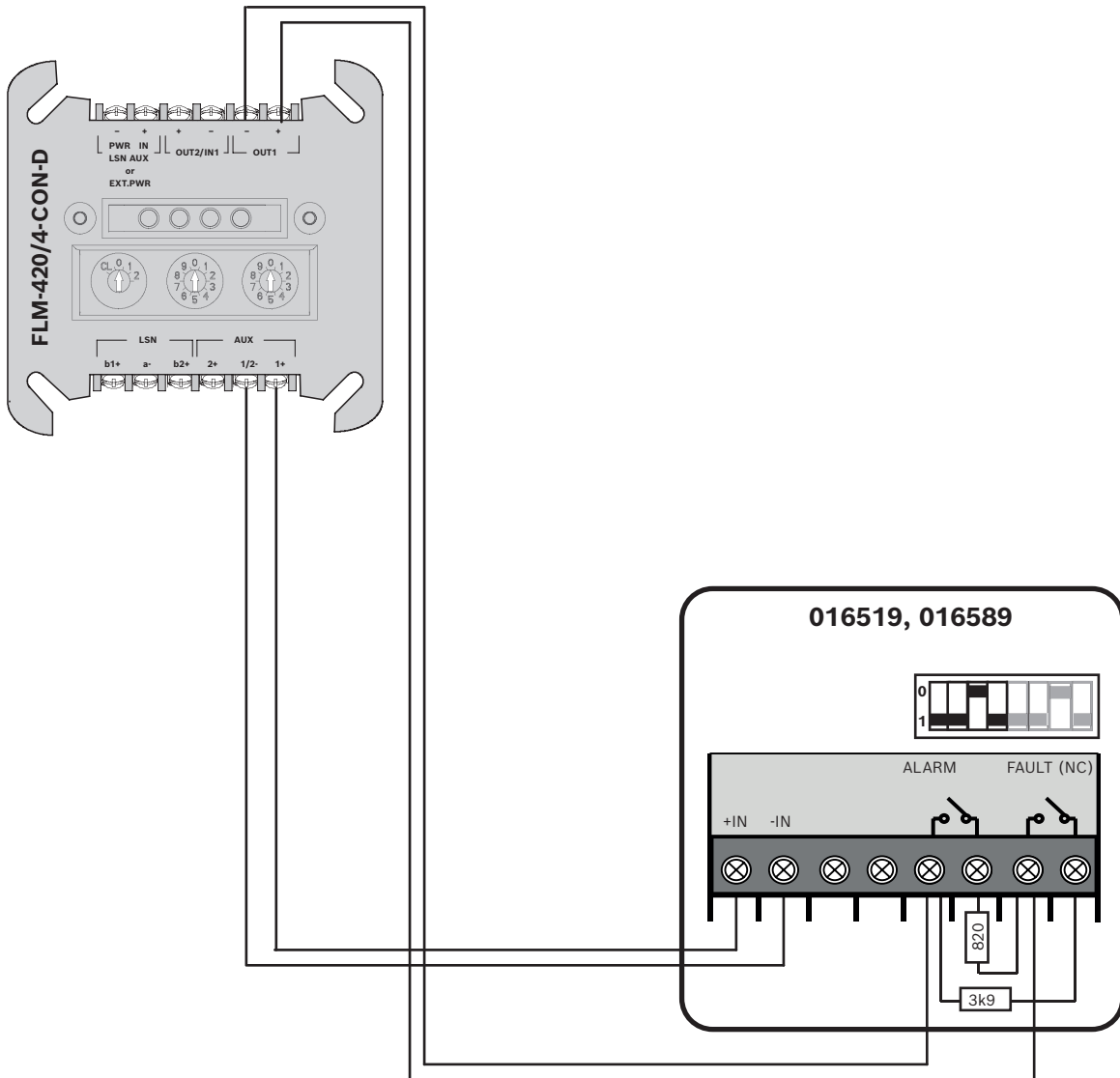
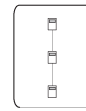


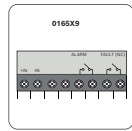
max. 1 x 0165X9



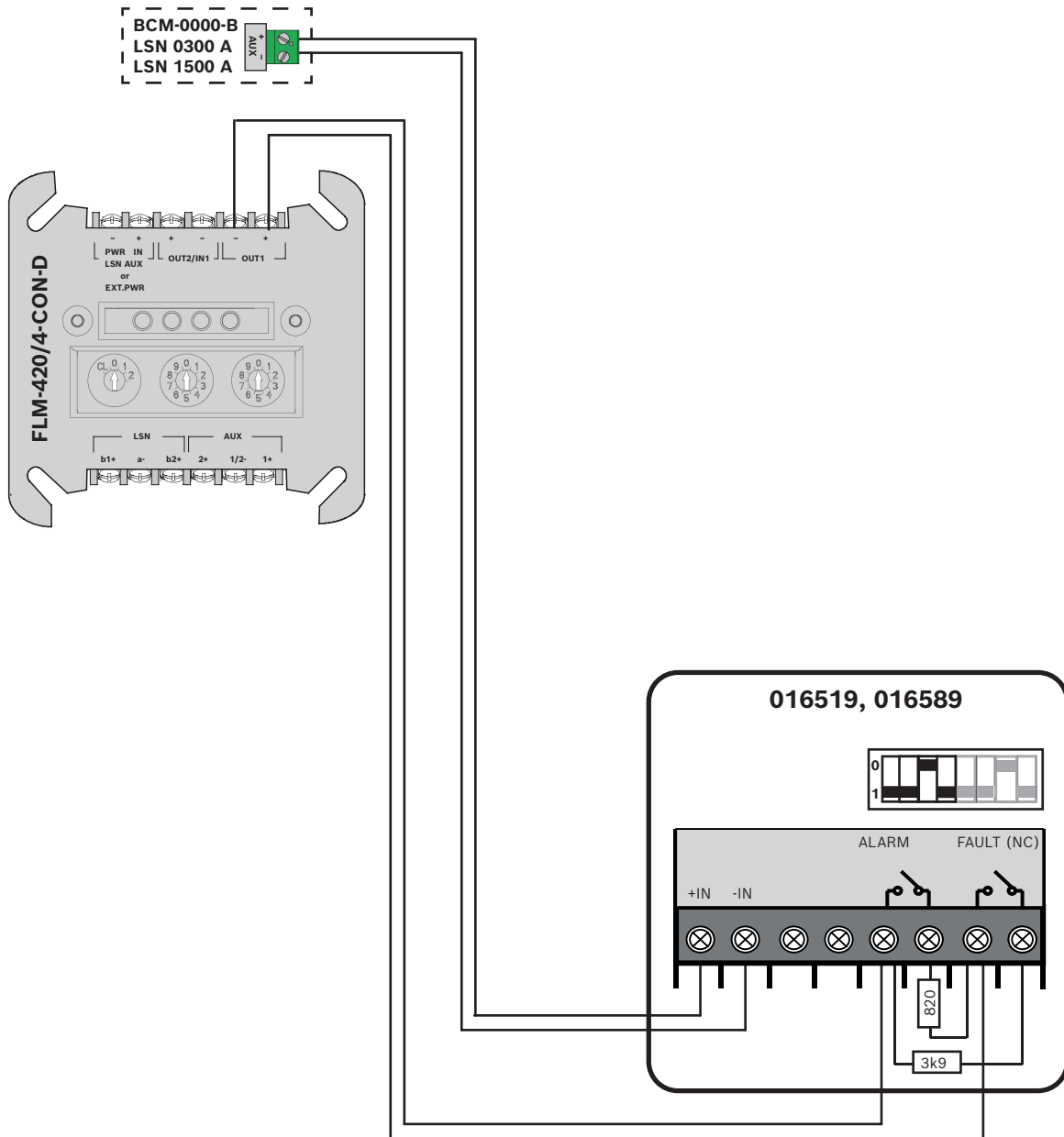
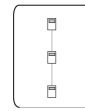


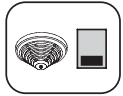
**016519, 016589
IR3 Flame Detector**



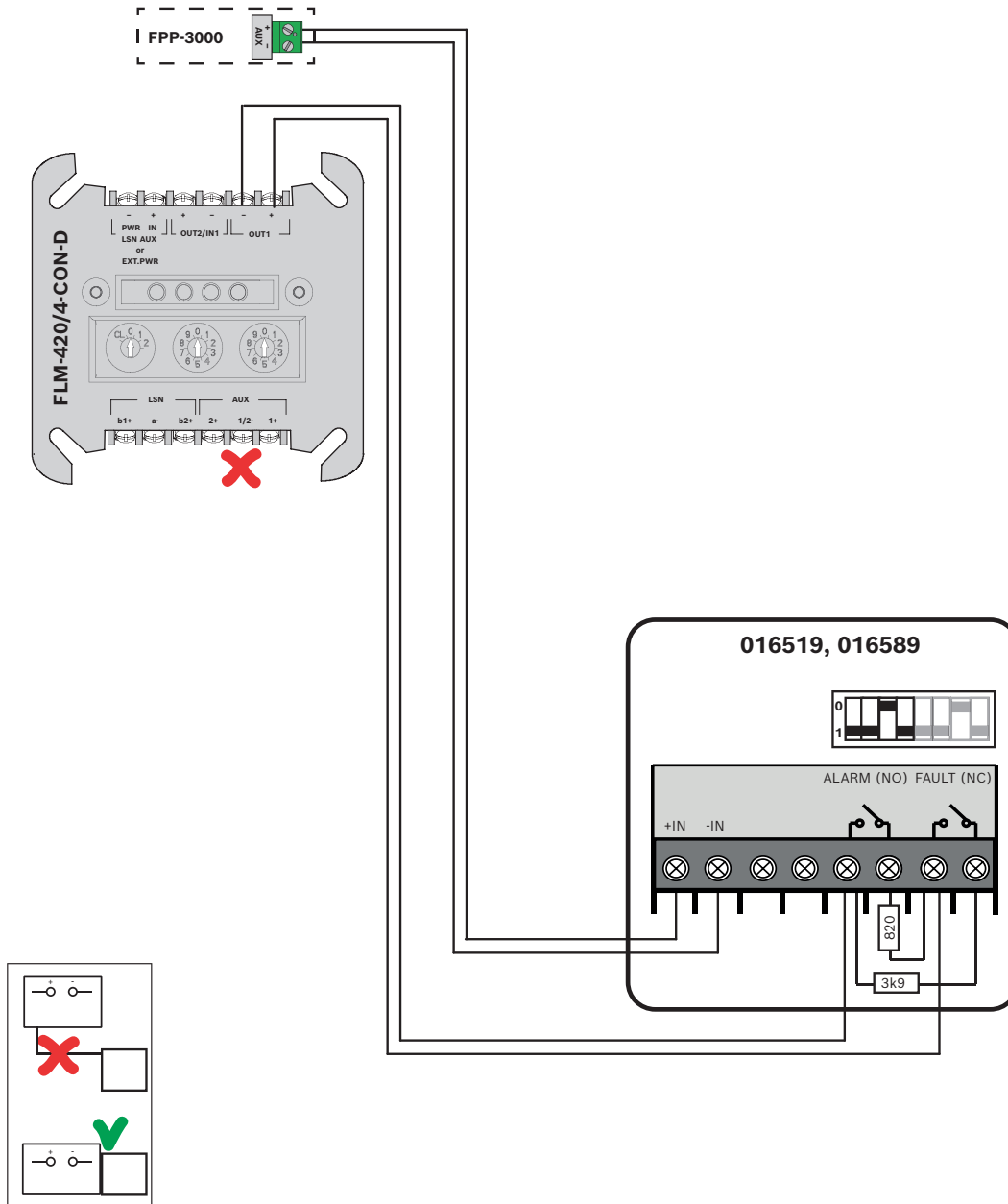


**016519, 016589
IR3 Flame Detector**



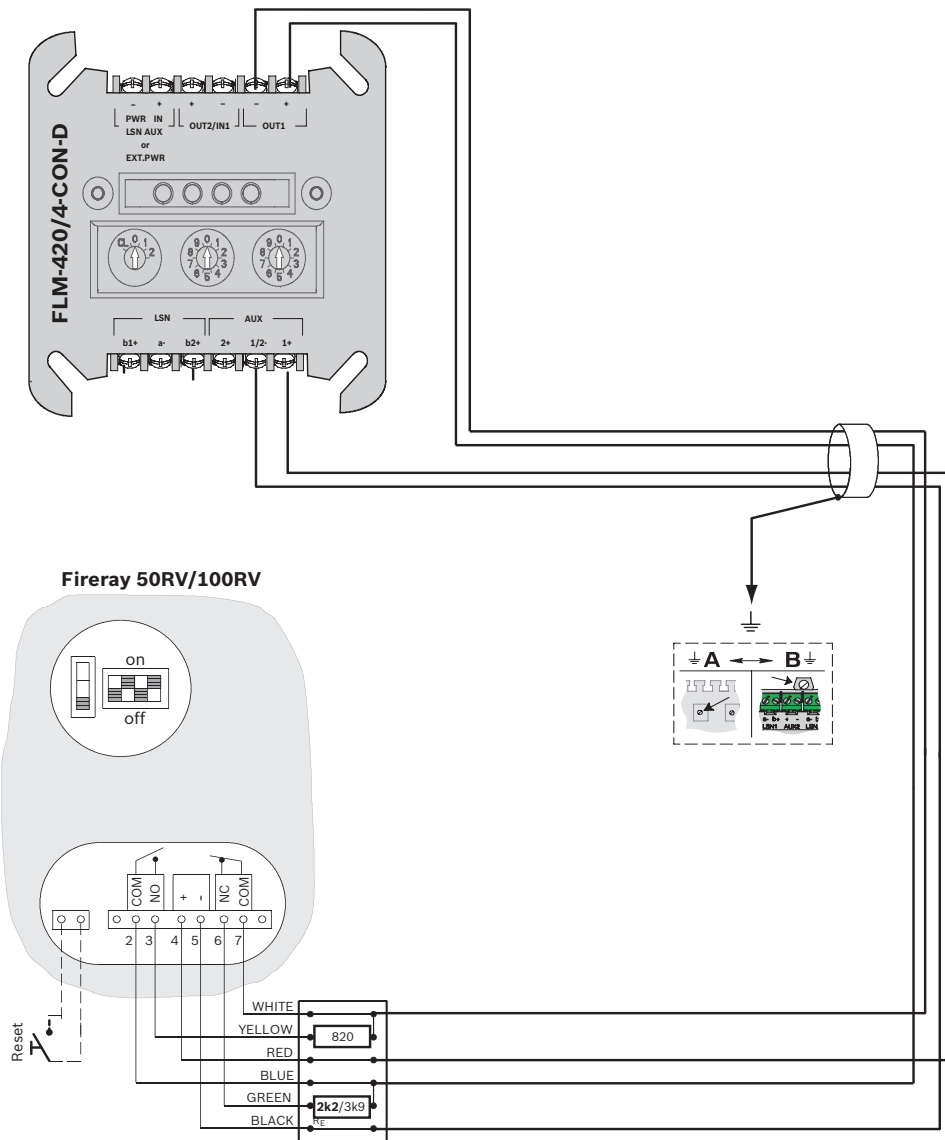


**016519, 016589
IR3 Flame Detector**





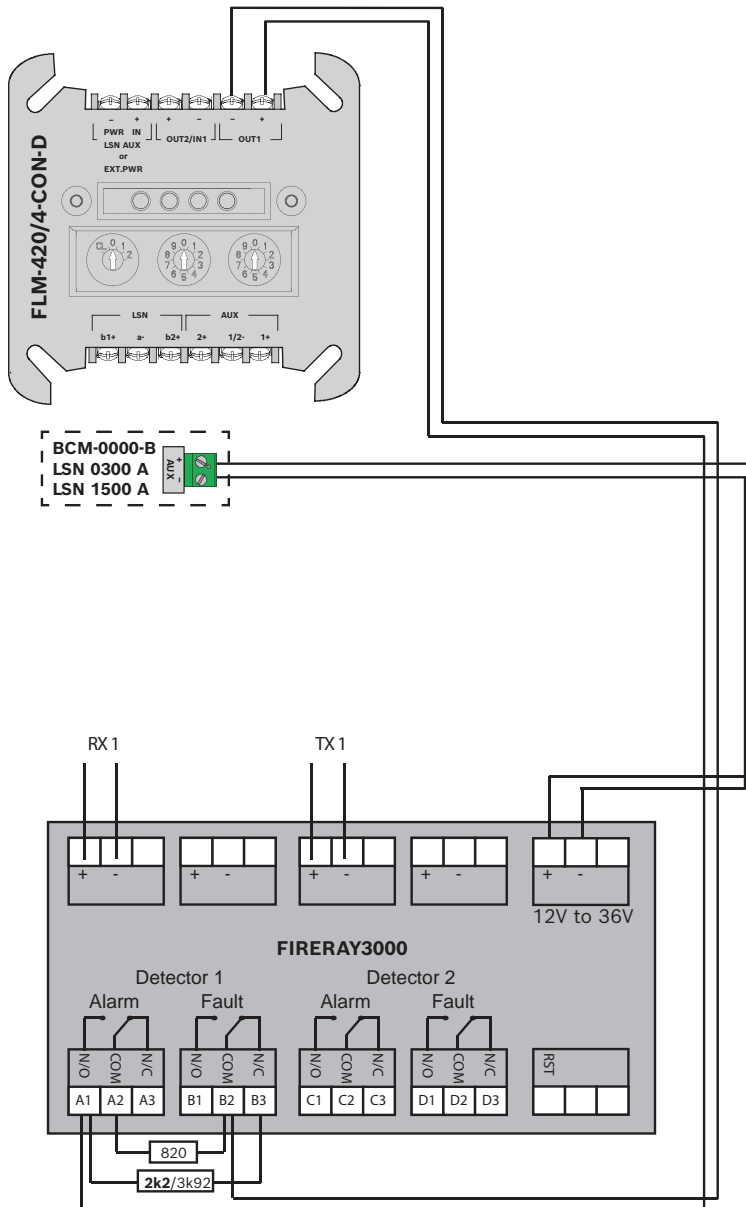
**Fireray 50RV
Fireray 100RV**





FIRERAY3000

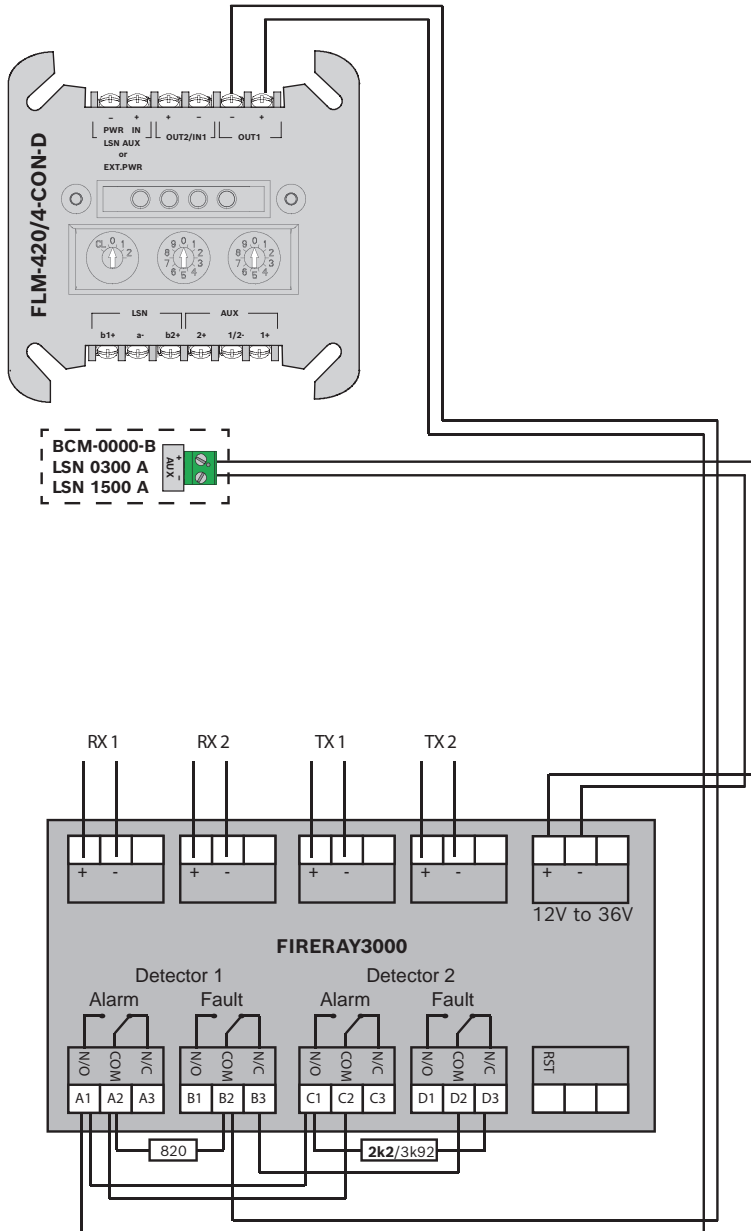
1 x





FIRERAY3000

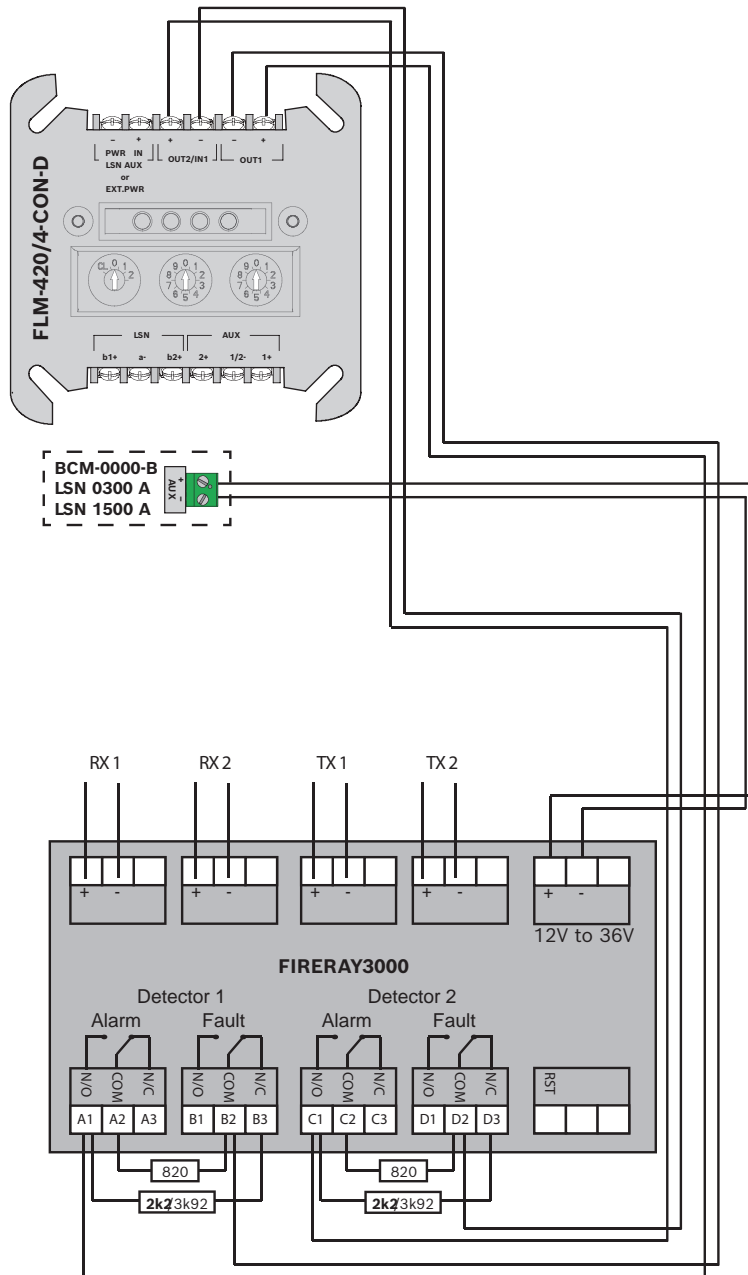
2 x  **OUT1**





FIRERAY3000

2 x **OUT1+2**

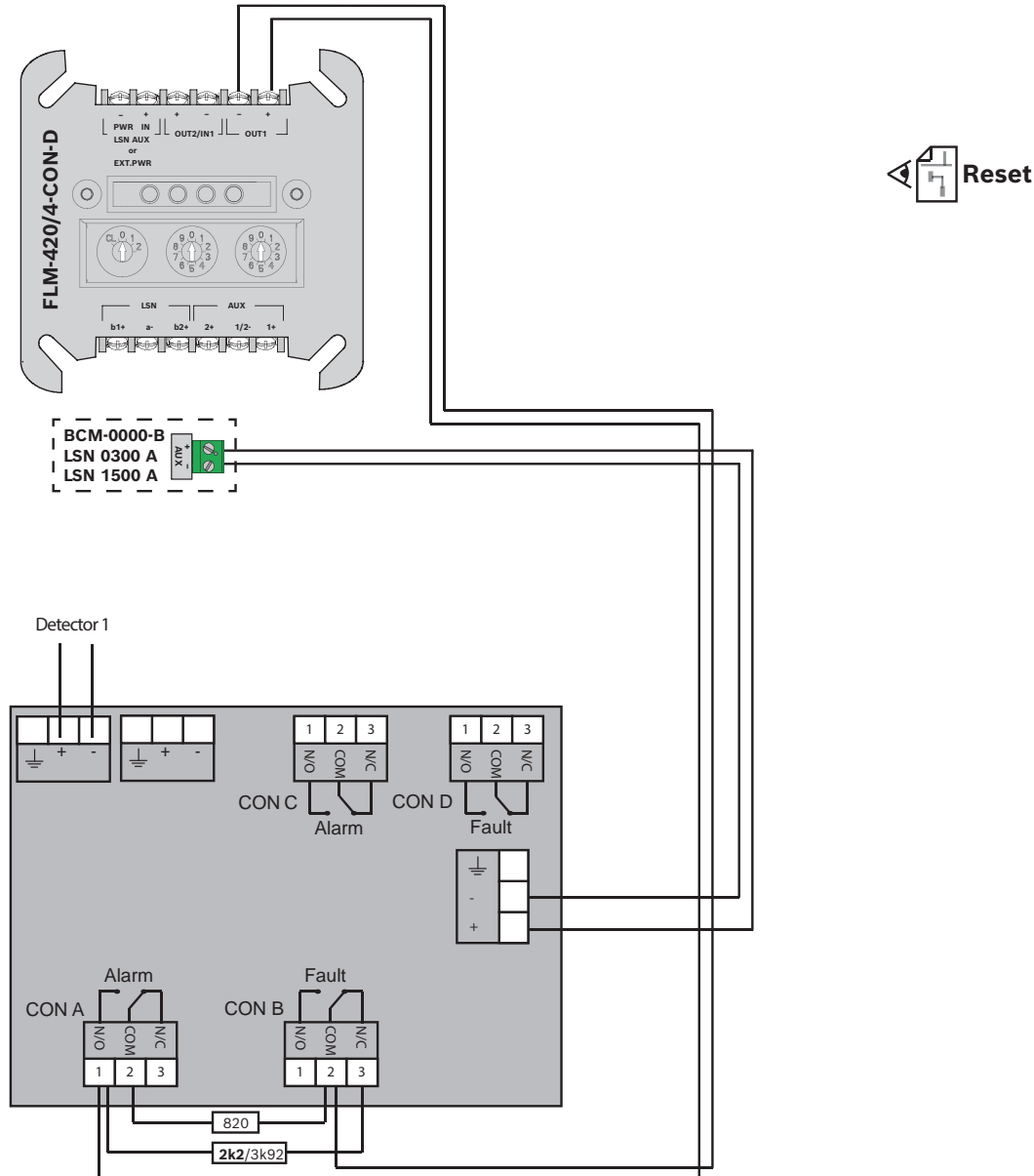


Reset action



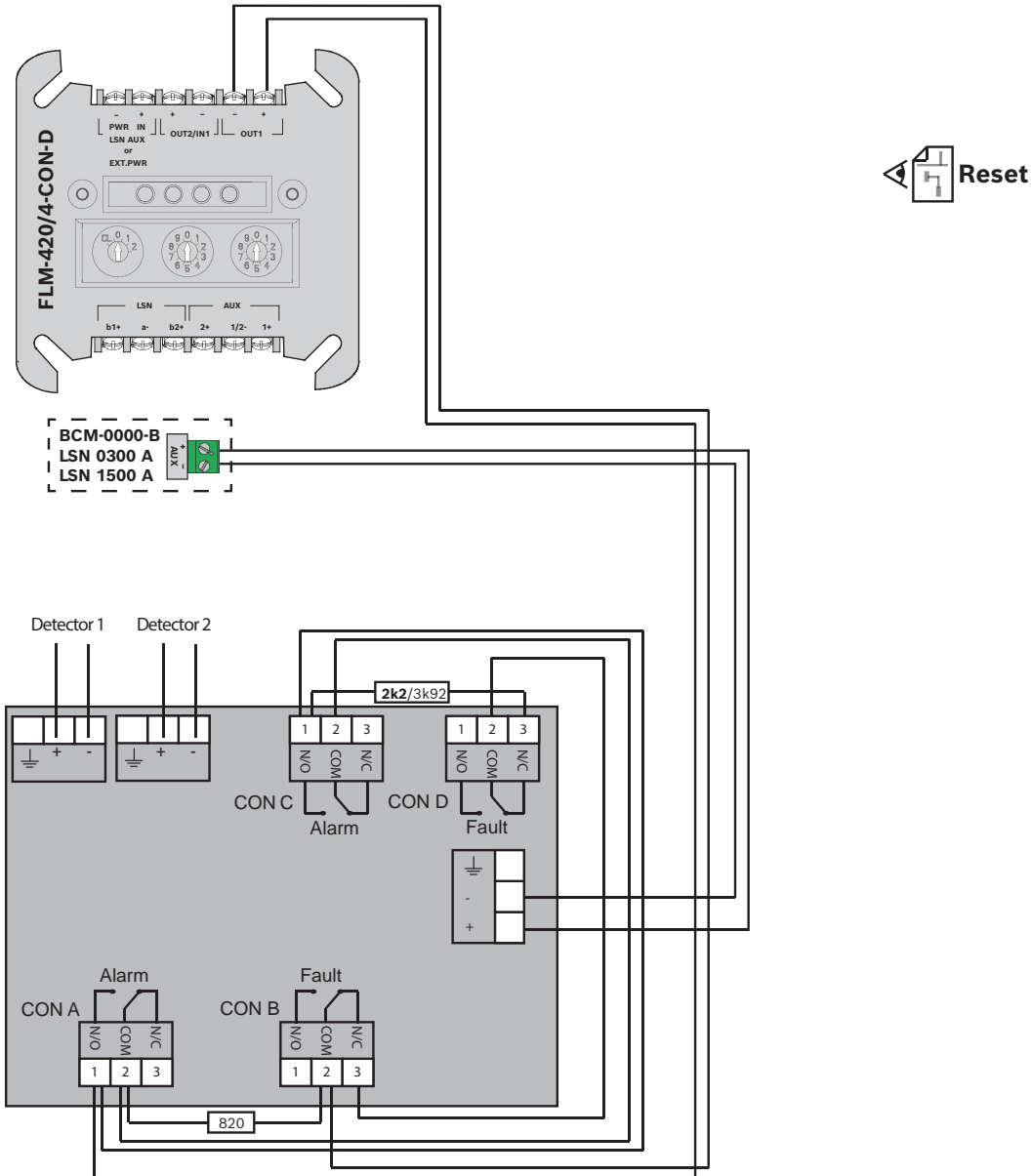
FIRERAY5000

1 x 



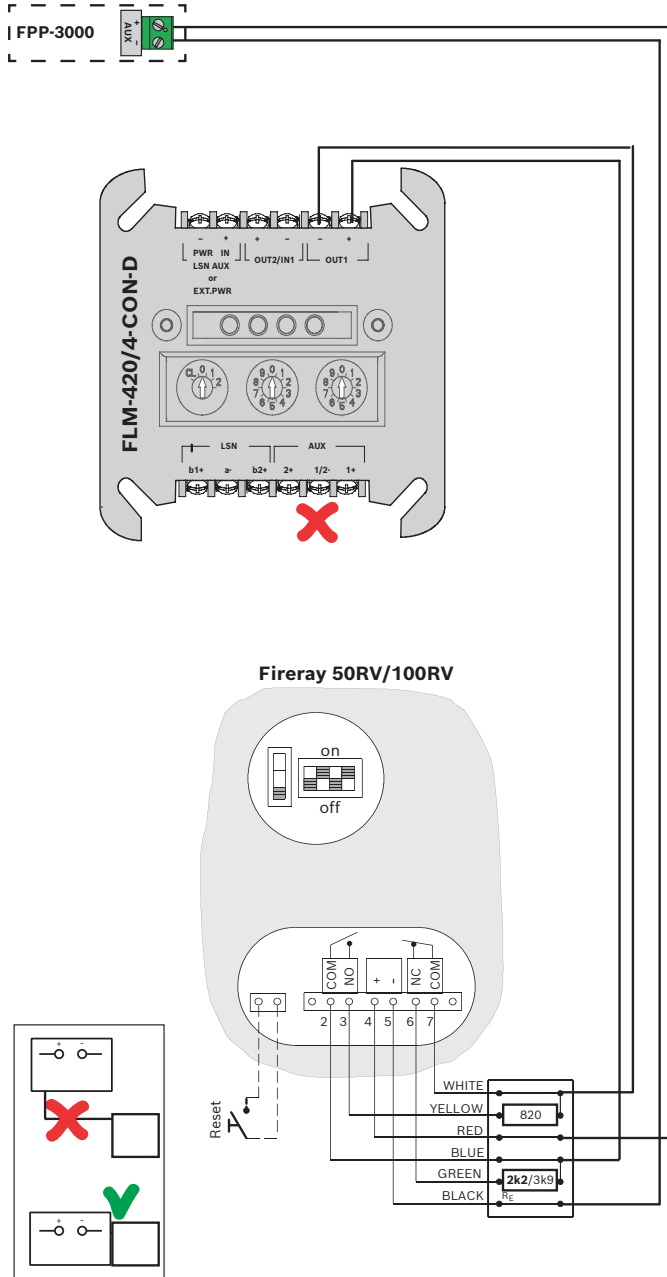


FIRERAY5000
2 x **OUT1**





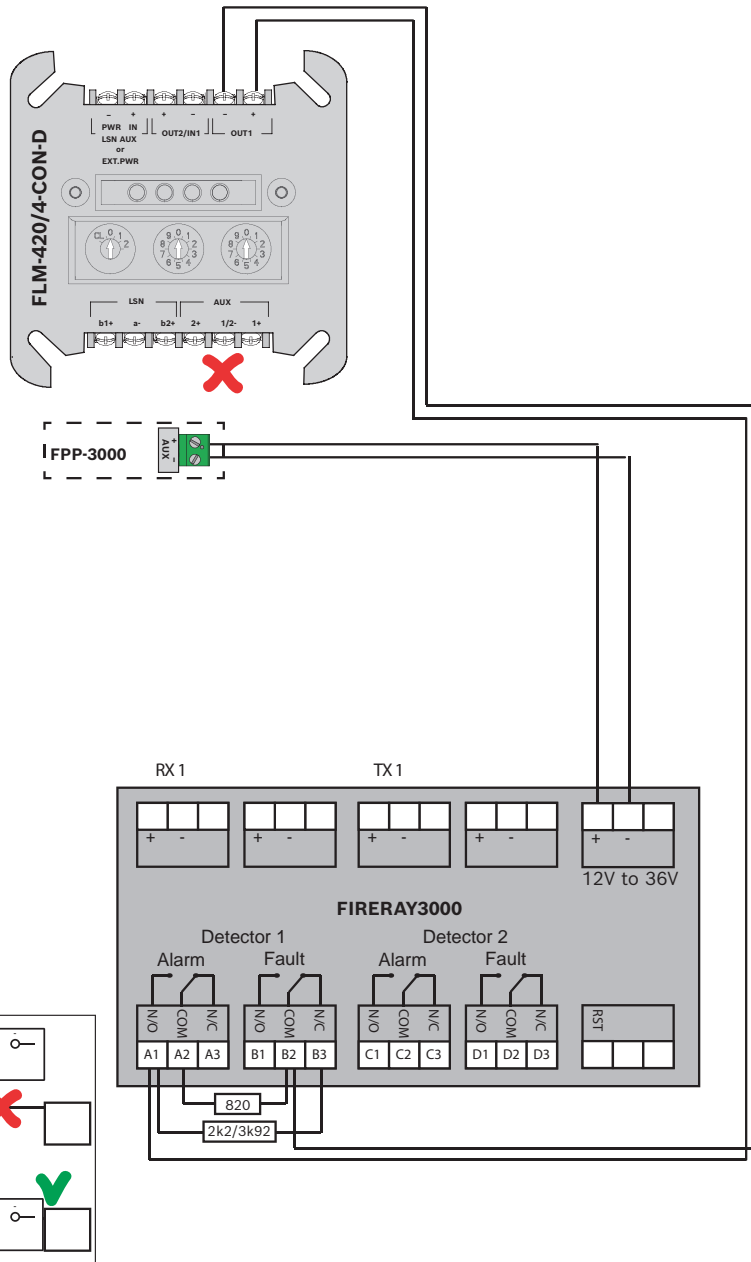
**Fireray 50RV
Fireray 100RV**



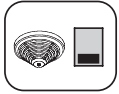


FIRERAY3000

1 x

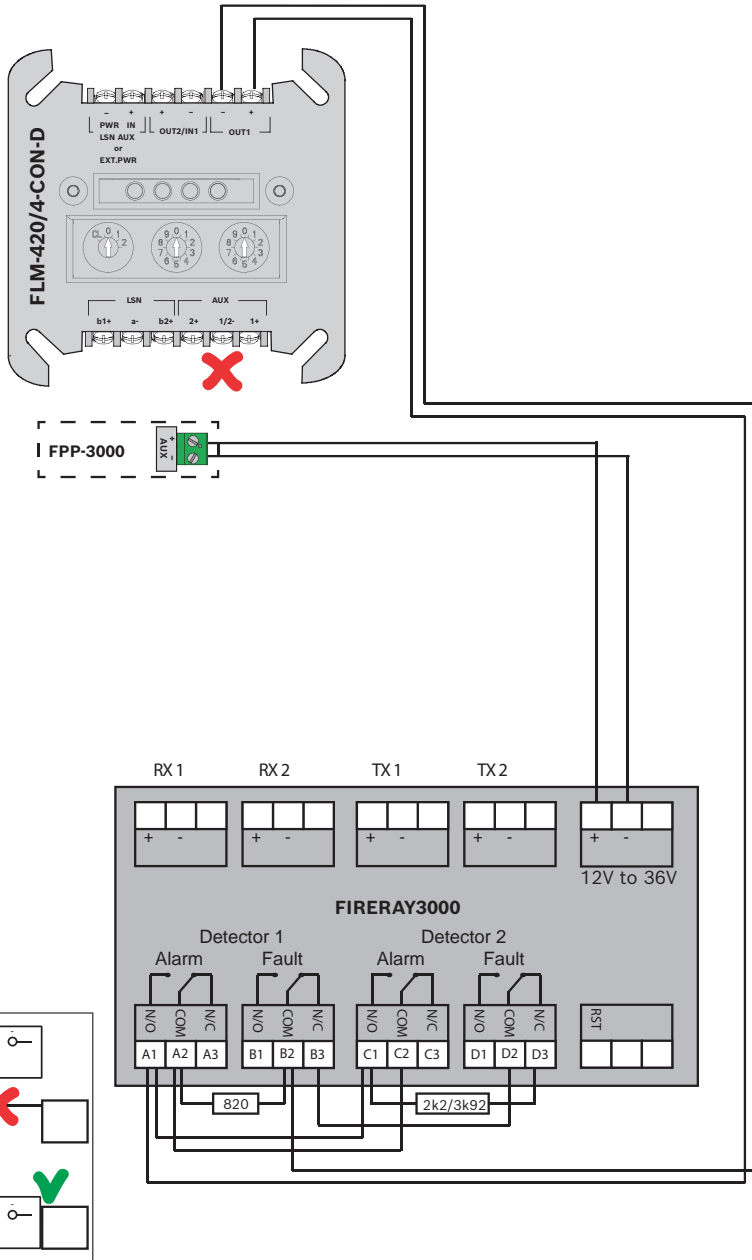


Reset action

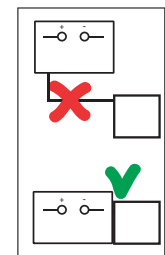


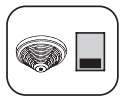
FIRERAY3000

2 x  **OUT1**



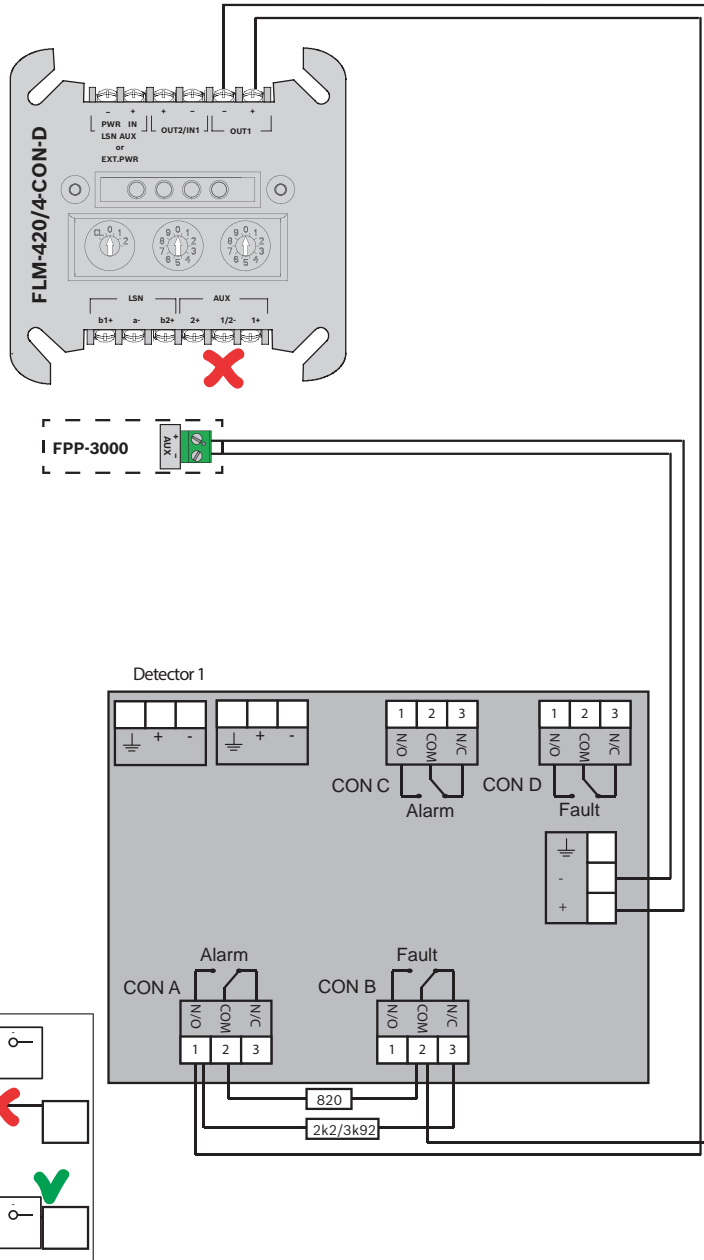
 **Reset action**





FIRERAY5000

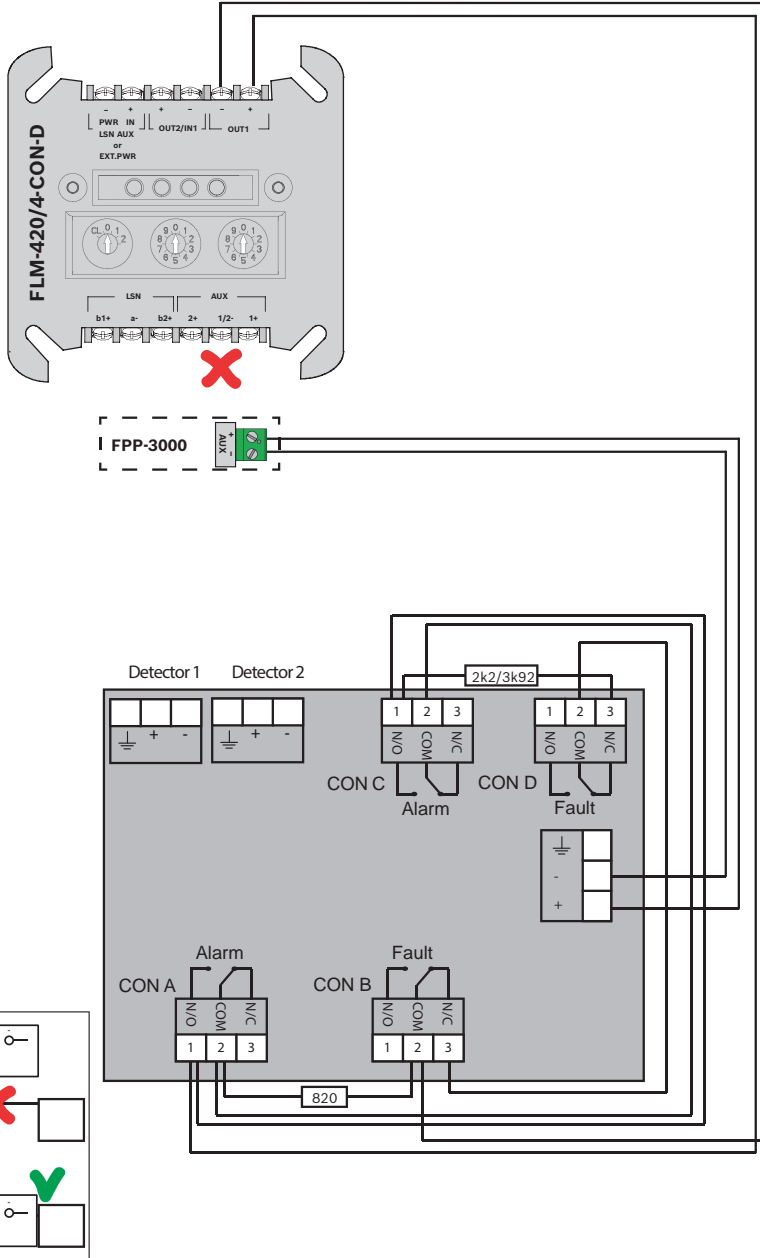
1 x



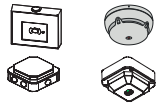


FIRERAY5000

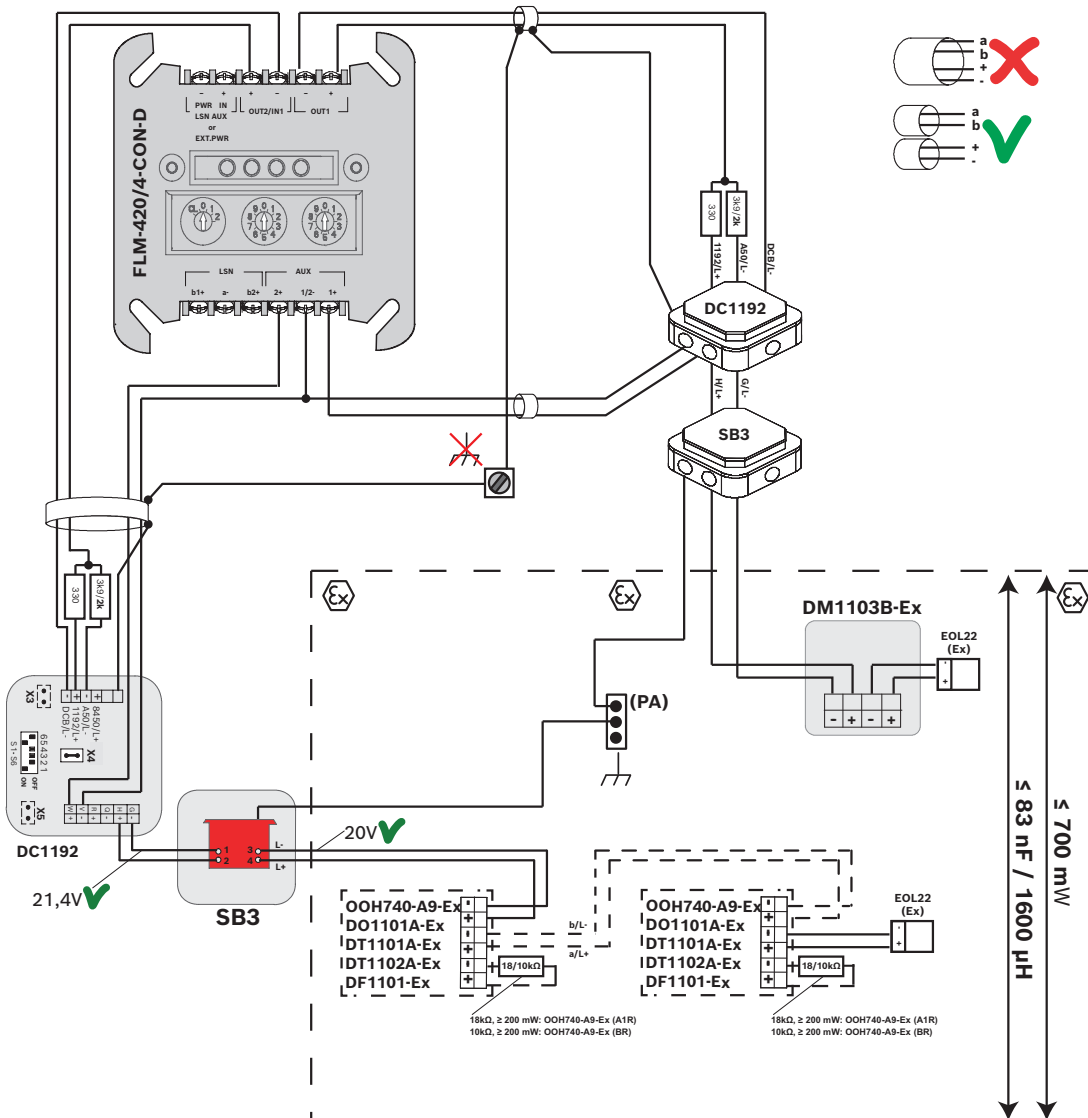
2 x OUT1



Reset action

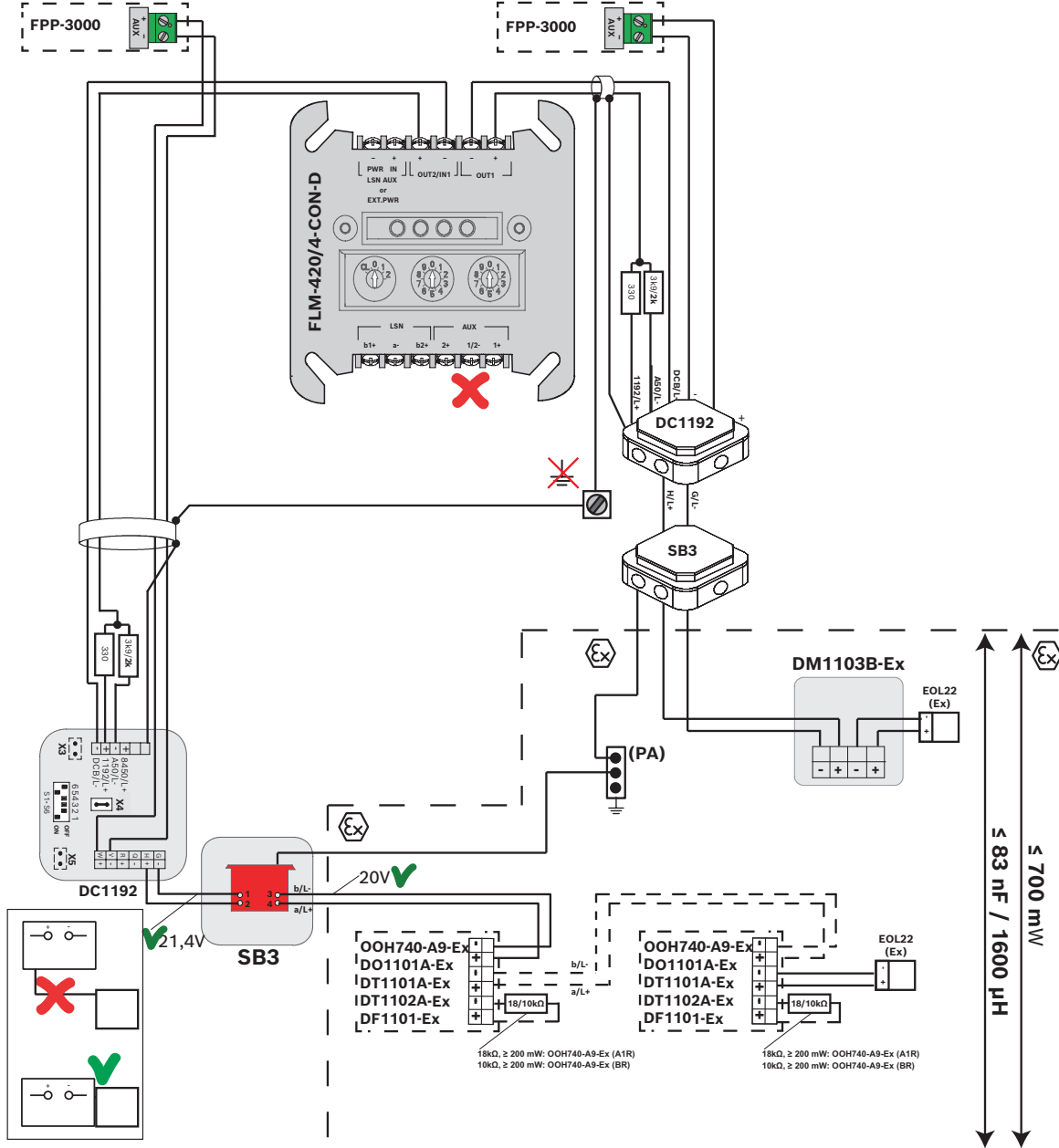


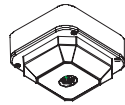
DC1192, SB3
OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex-
/DT1102A-Ex
DF1101-Ex



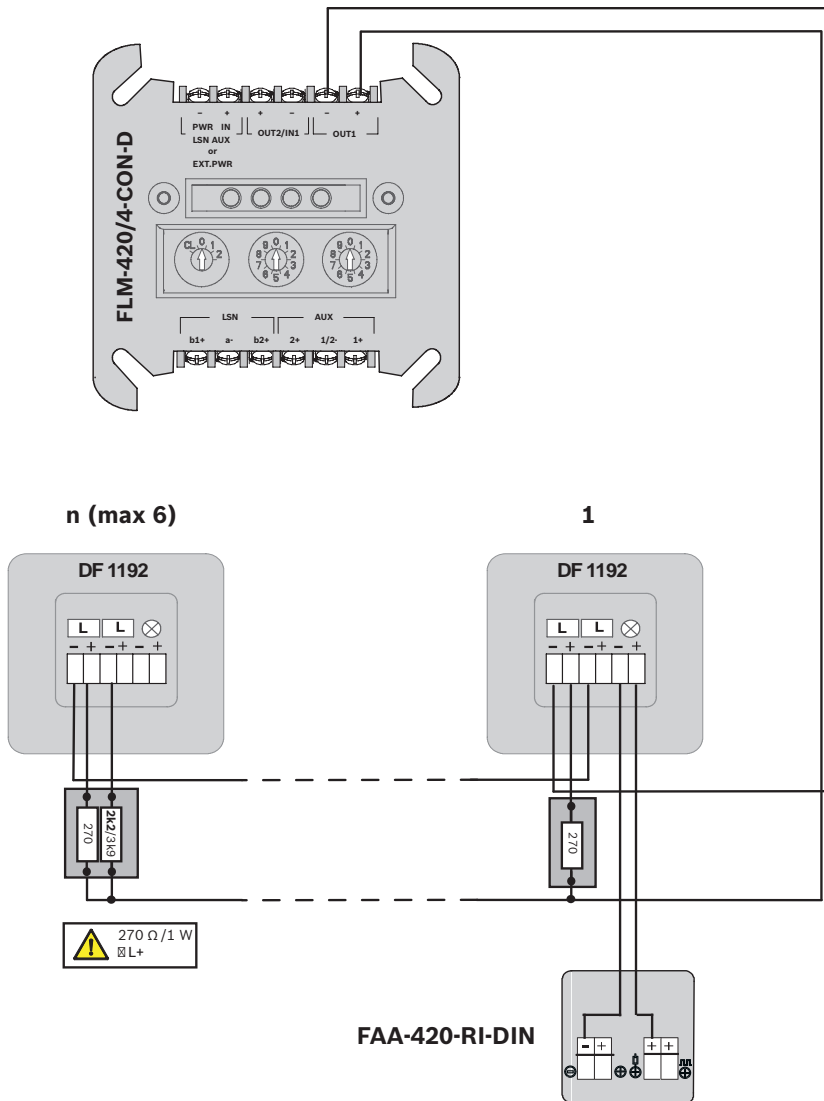


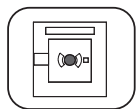
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



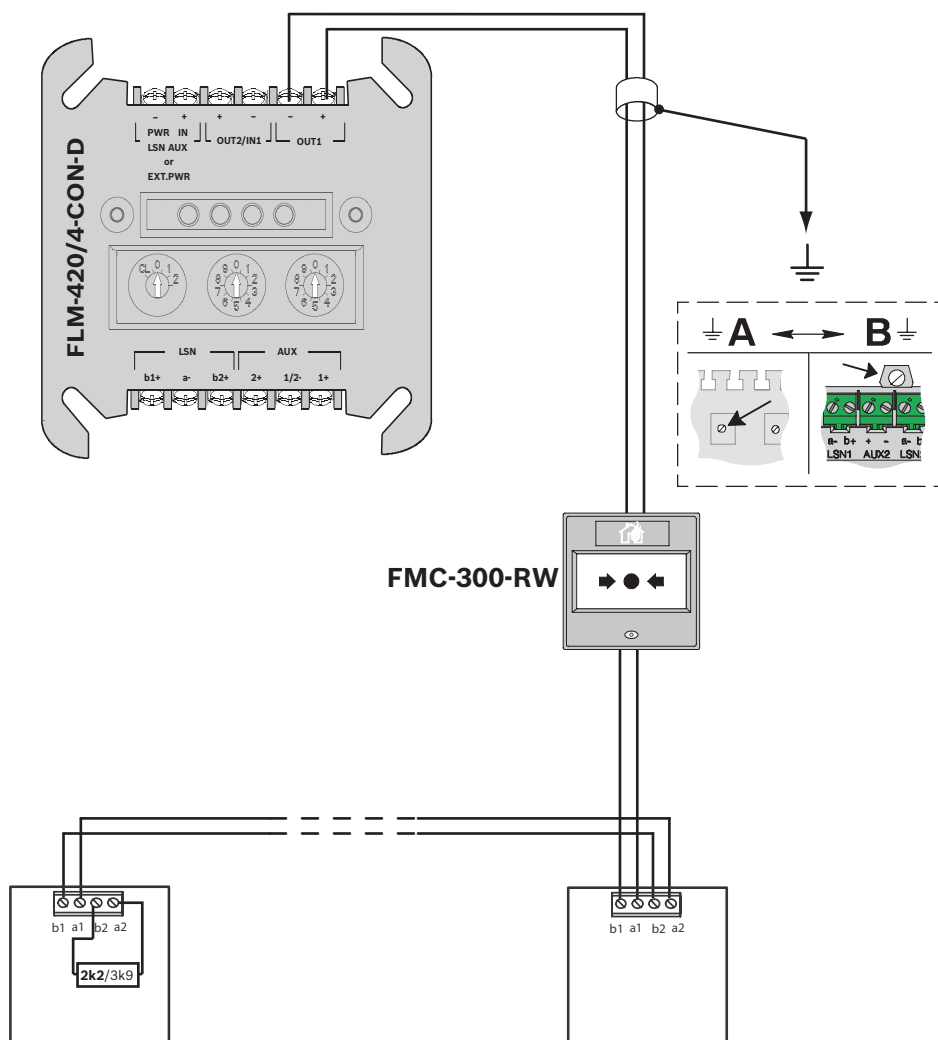
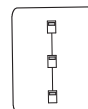


DF 1192



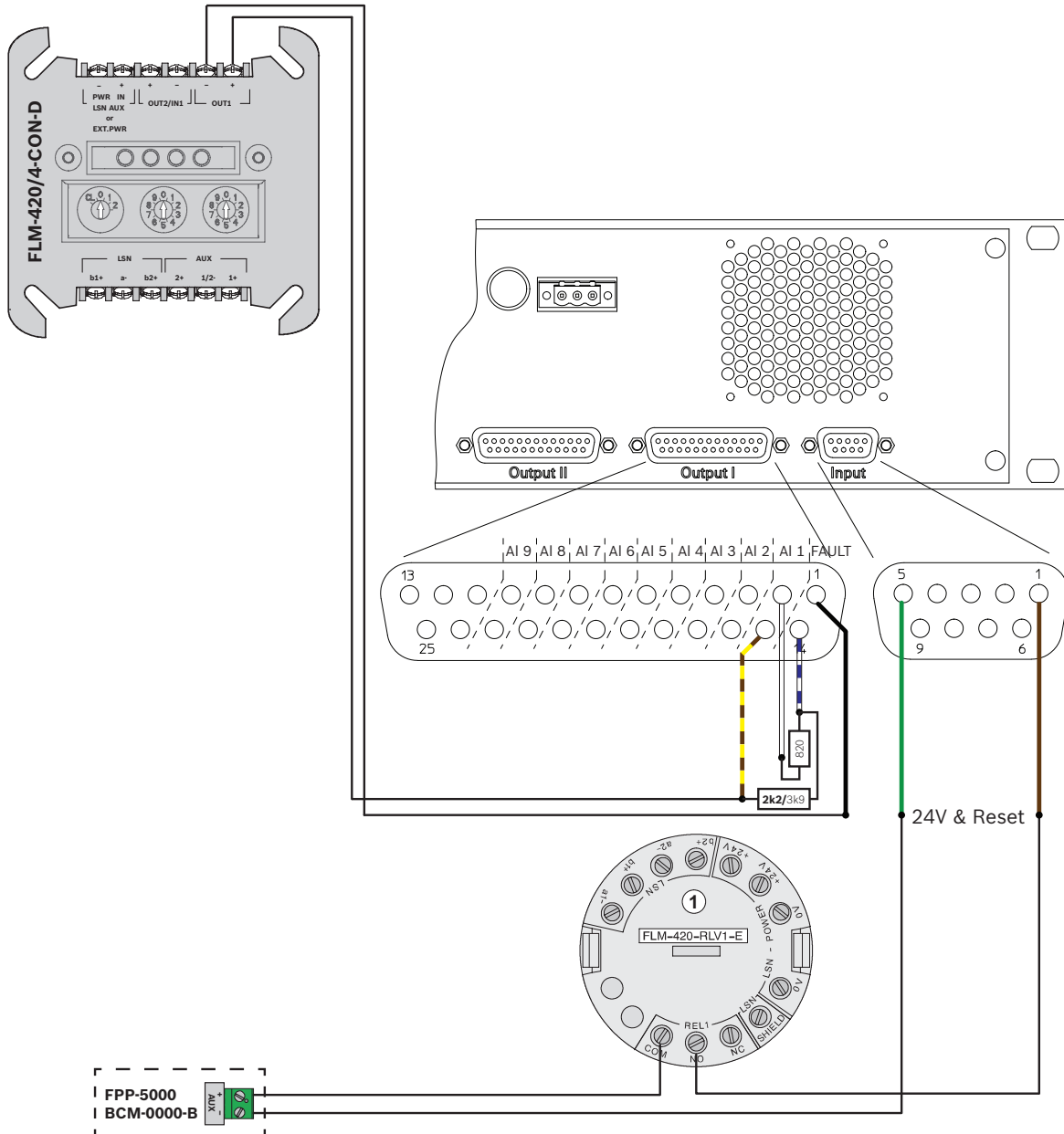


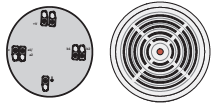
FMC-300-RW



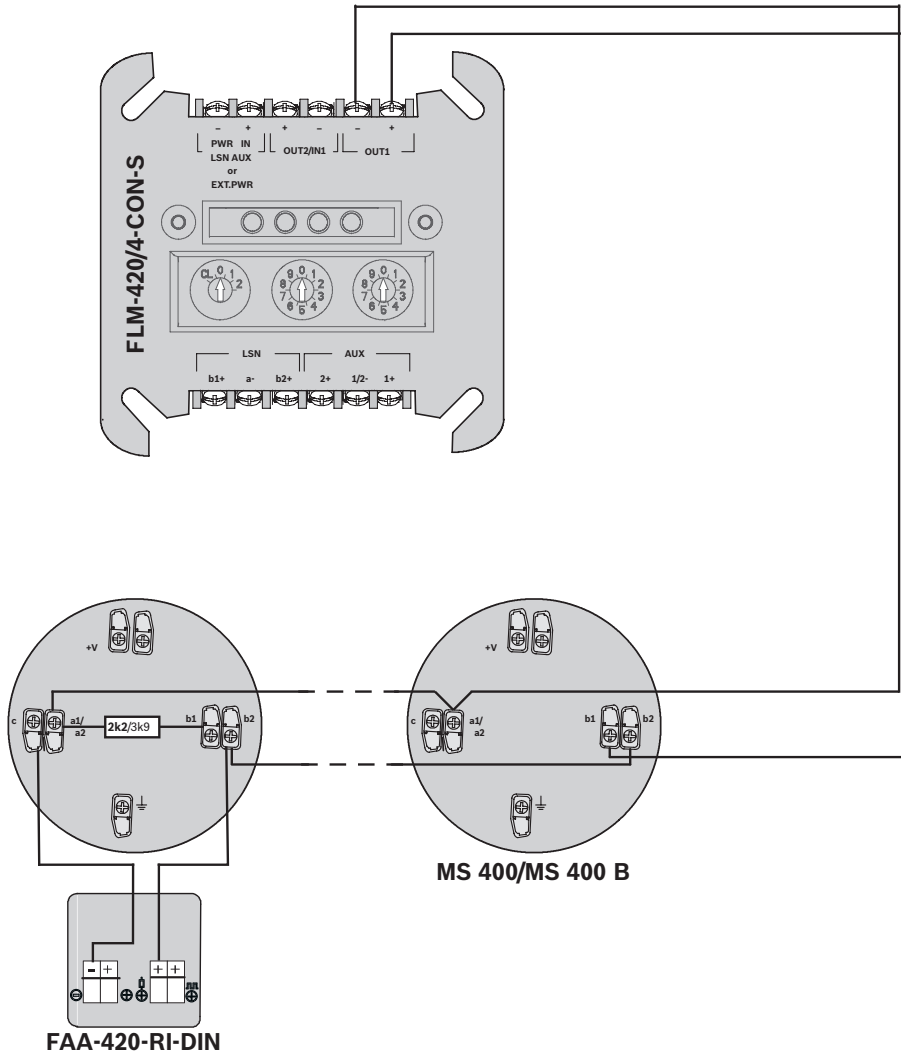


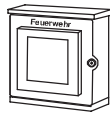
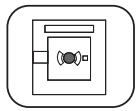
N4387A



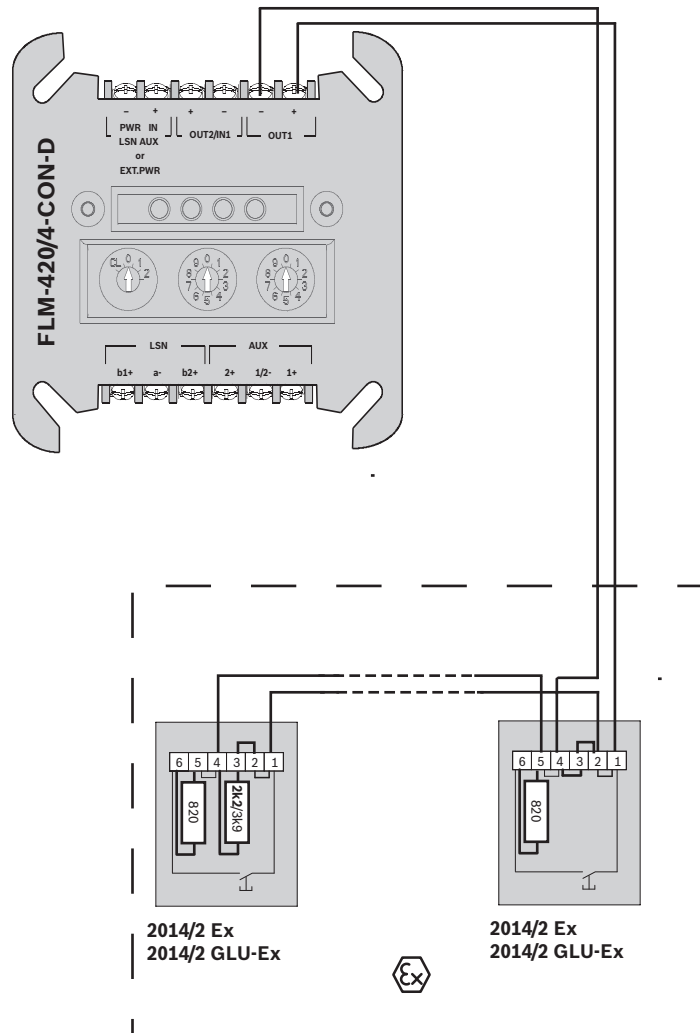
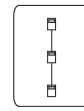


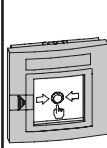
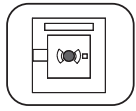
MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



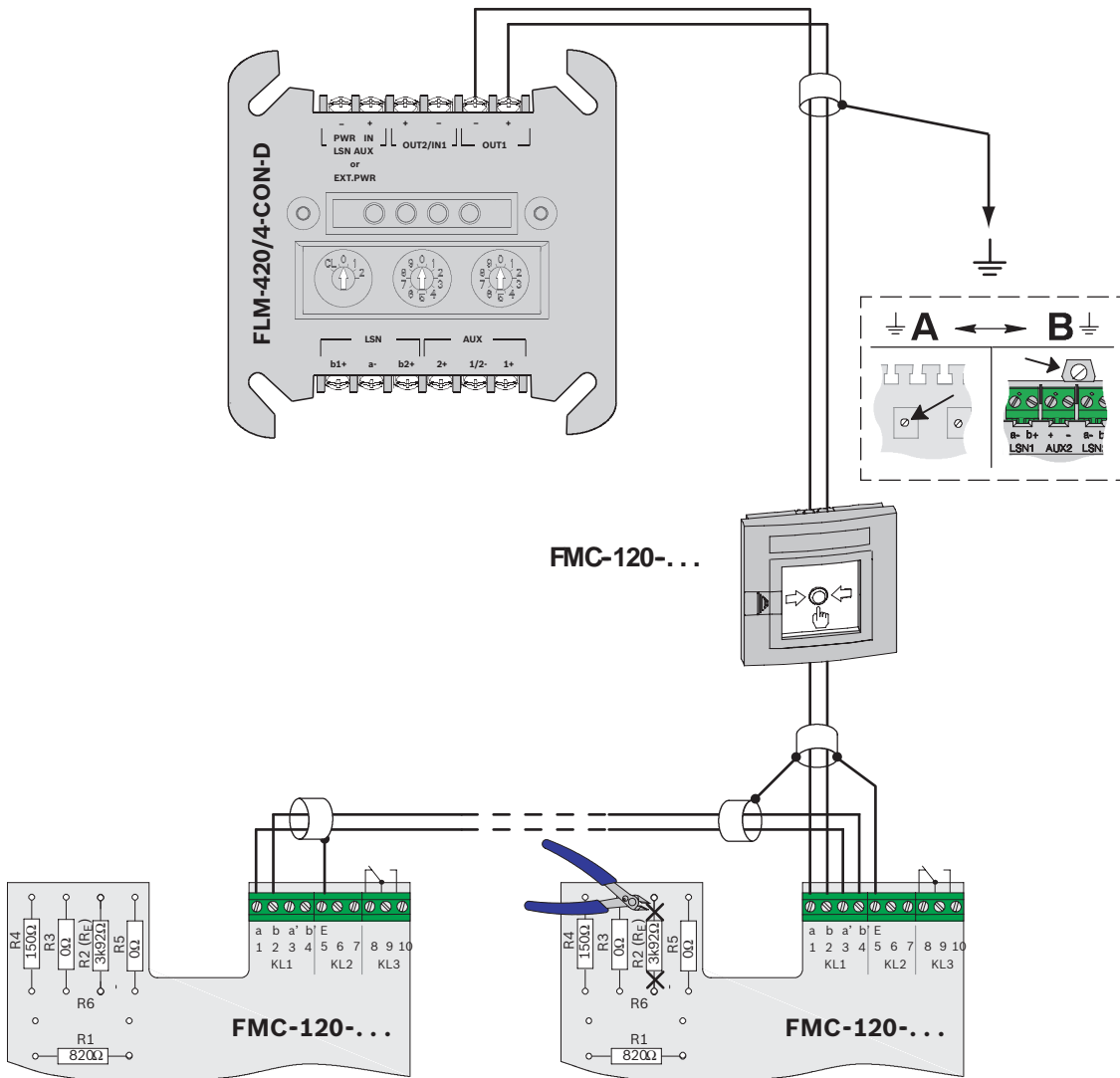
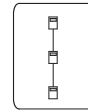


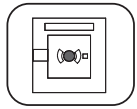
2014/2 Ex
2014/2 GLU-Ex



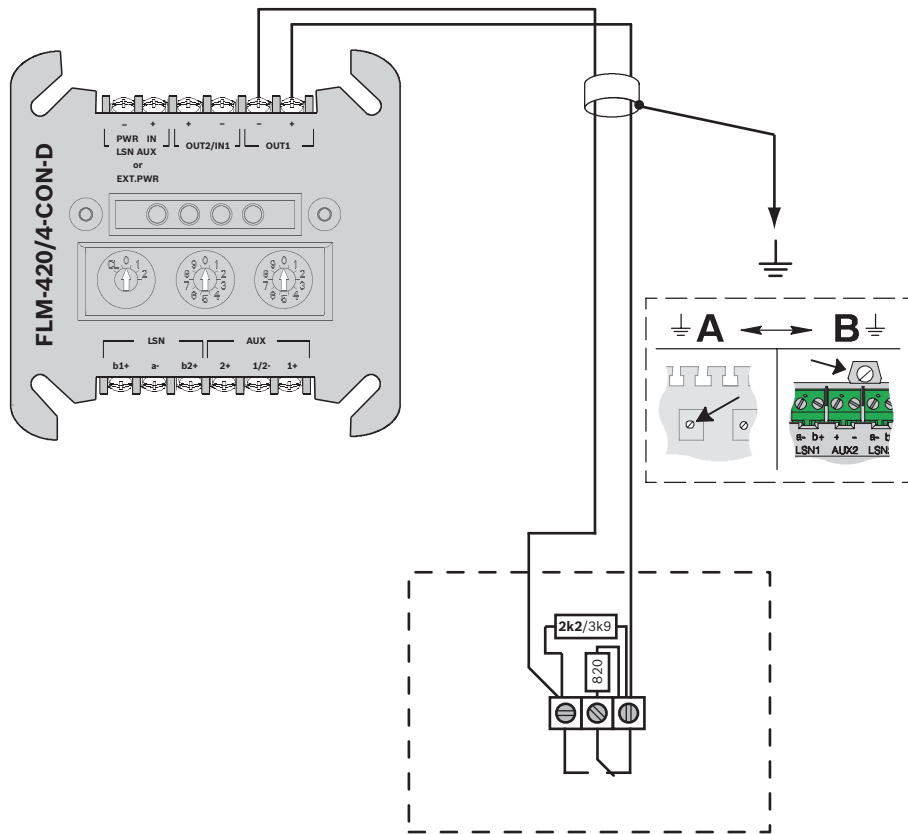
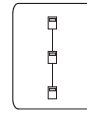


FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B



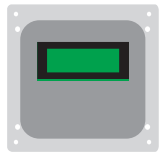


NO



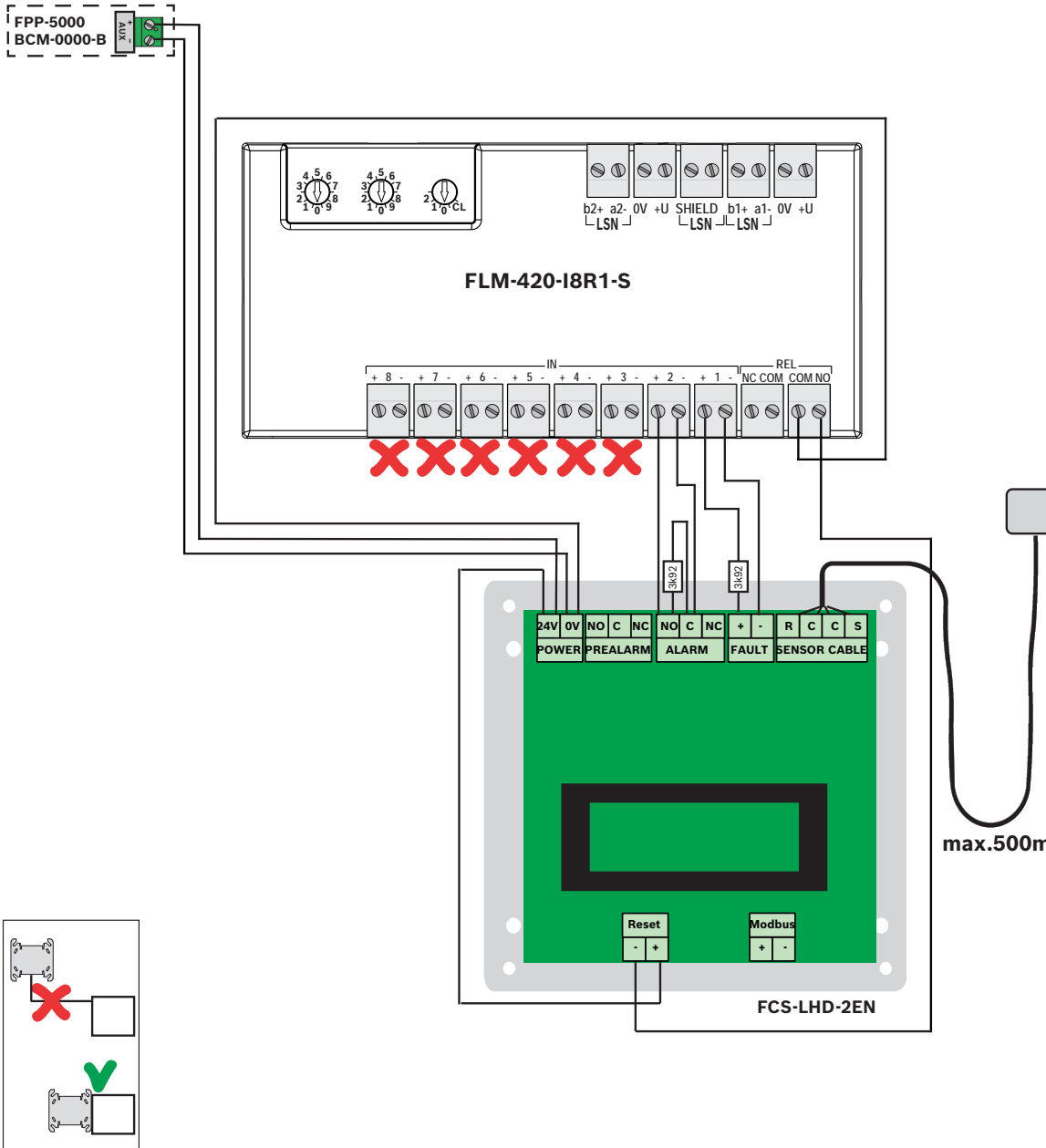
2.5.2

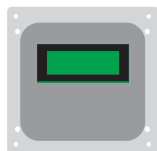
FLM-420-I8R1-S



ProReact EN Analogue

FCS-LHD-2EN





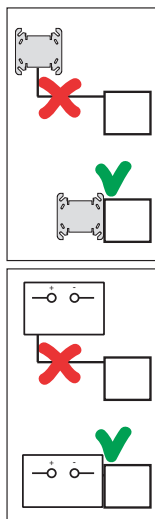
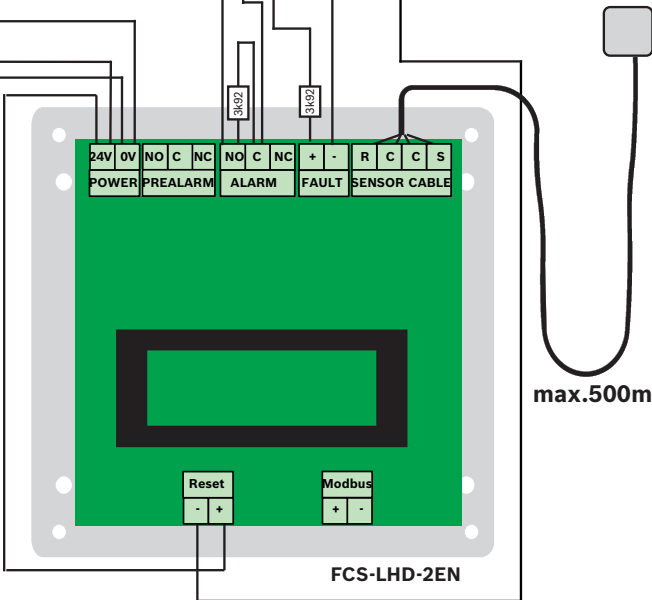
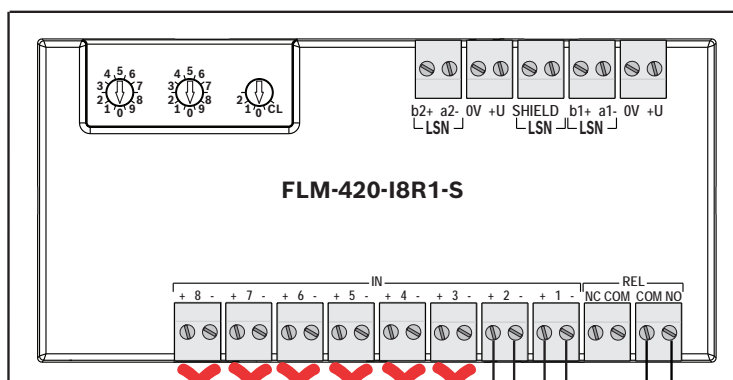
ProReact EN Analogue

FCS-LHD-2EN

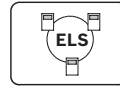


ELS

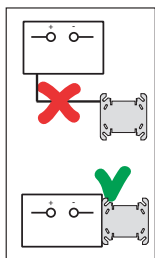
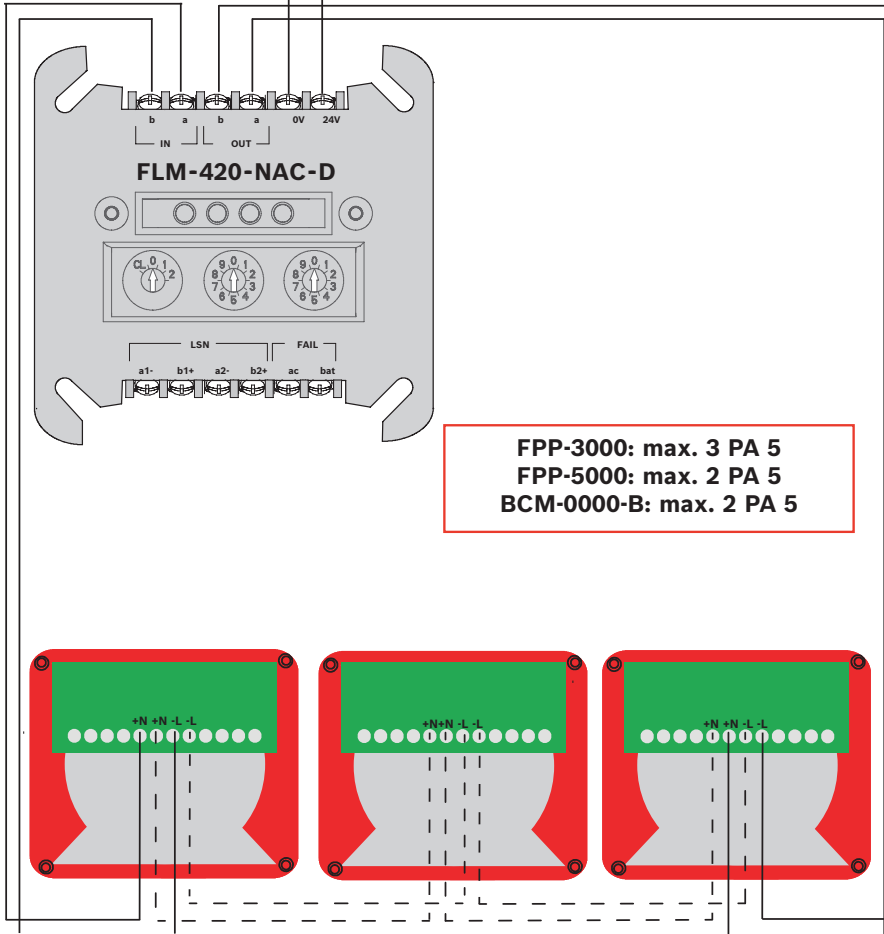
FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B



2.5.3 FLM-420-NAC-D/S

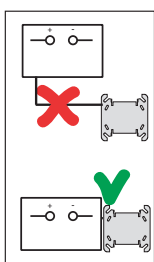
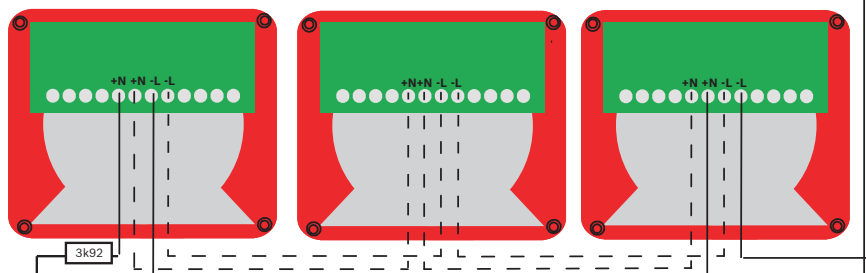
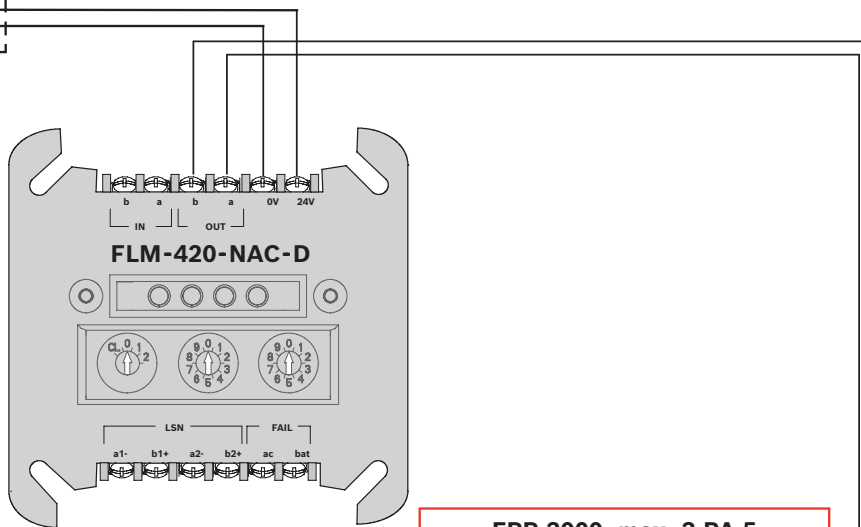


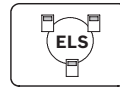
FPP-3000(ZSP135-DR)
FPP-5000
BCM-0000-B



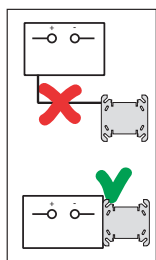
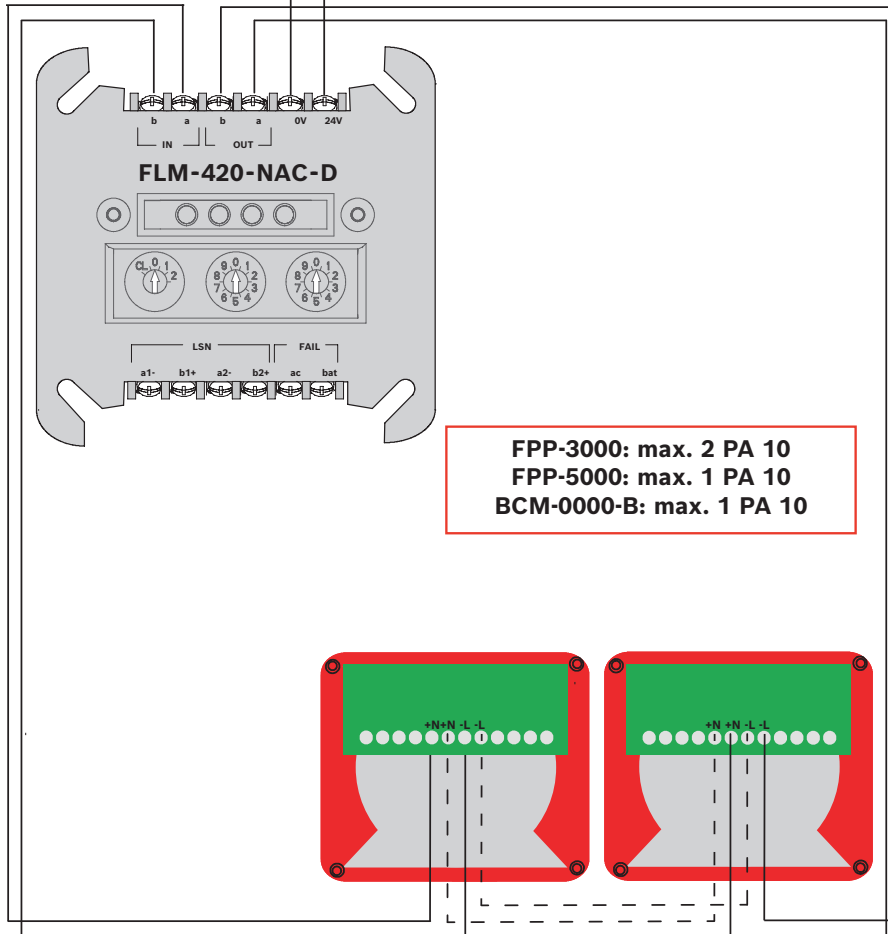


FPP-3000
FPP-5000
BCM-0000-B



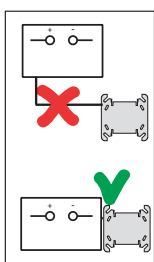
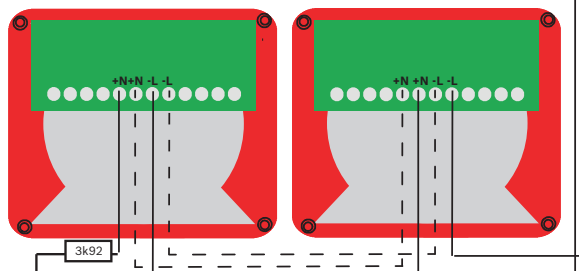
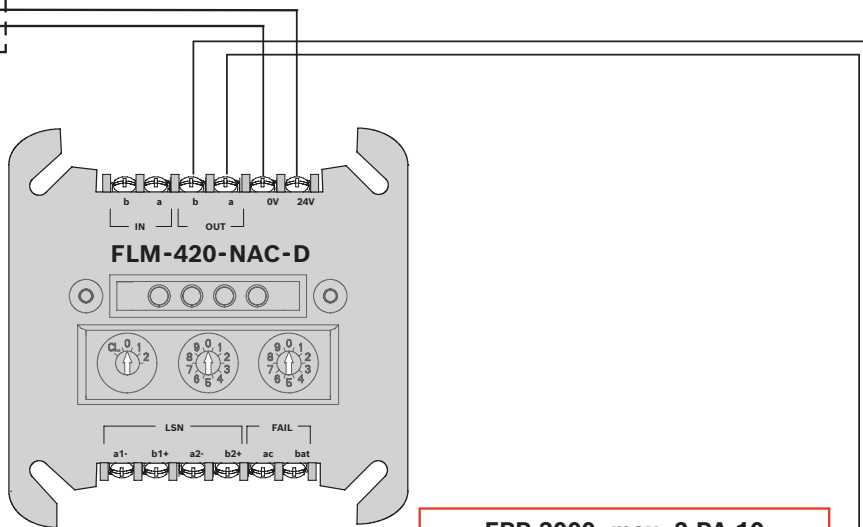


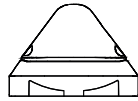
FPP-3000(ZSP135-DR)
 FPP-5000
 BCM-0000-B



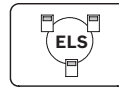


FPP-3000
FPP-5000
BCM-0000-B

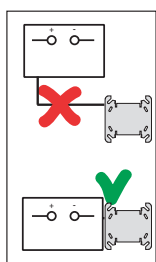
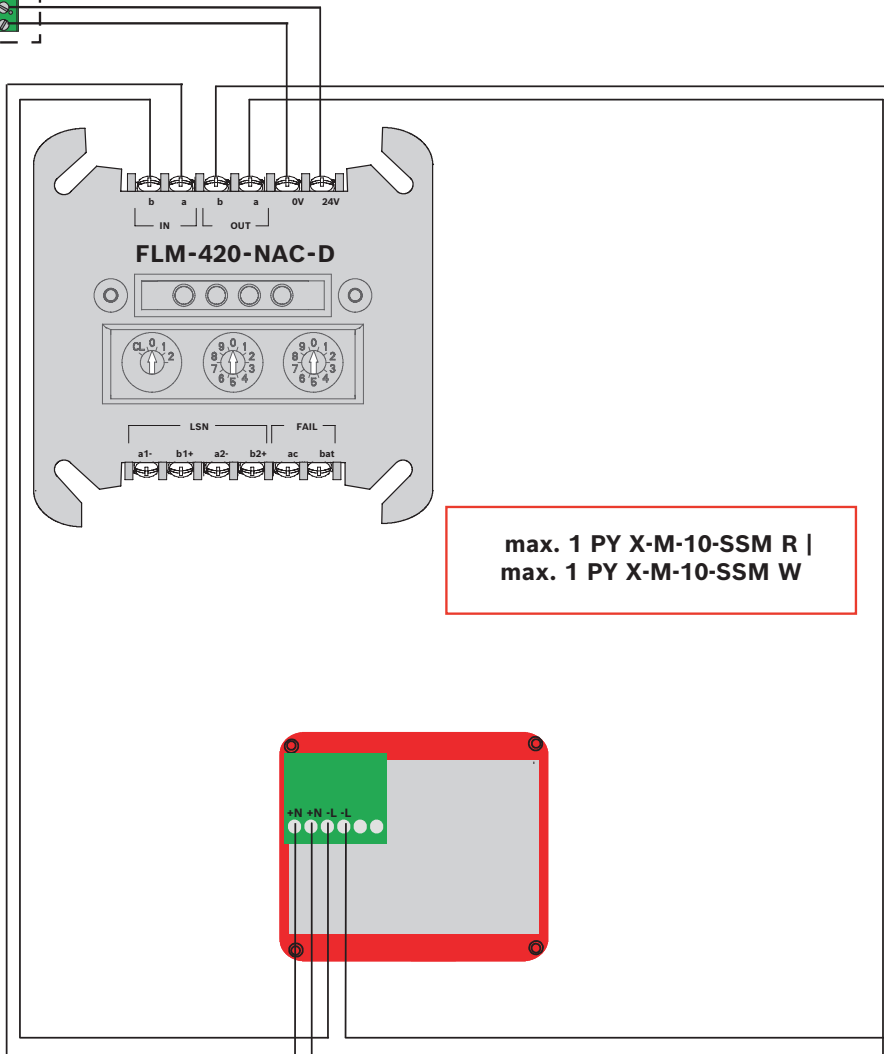


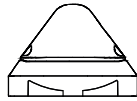


PY X-M-10-SSM R
PY X-M-10-SSM W



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

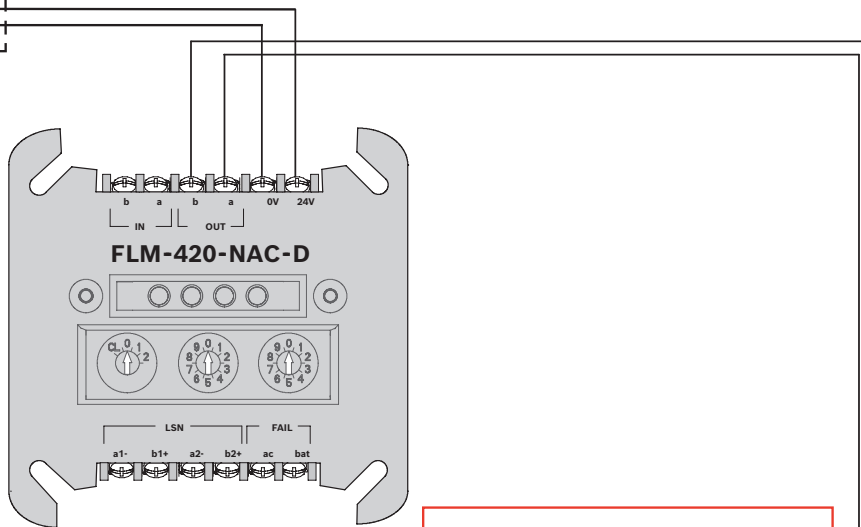




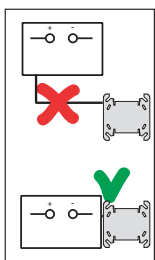
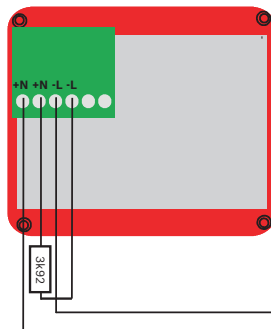
PY X-M-10-SSM R
PY X-M-10-SSM W



FPP-3000
FPP-5000
BCM-0000-B

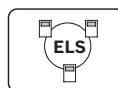


max. 1 PY X-M-10-SSM R |
max. 1 PY X-M-10-SSM W

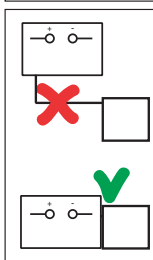
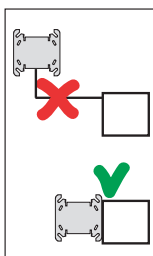
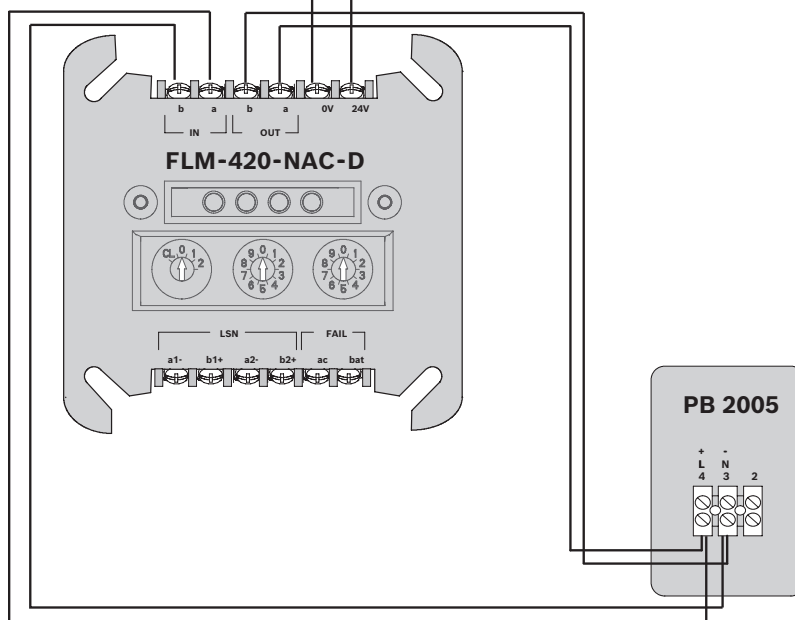




PB 2005

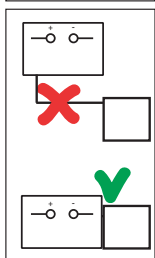
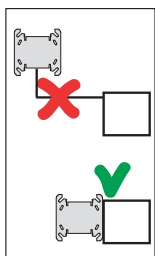
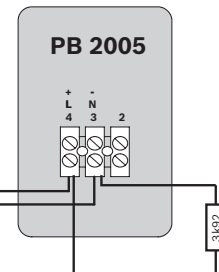
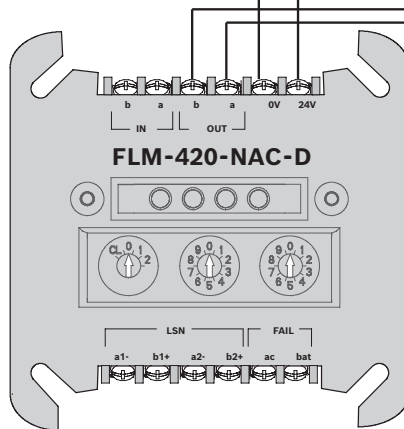


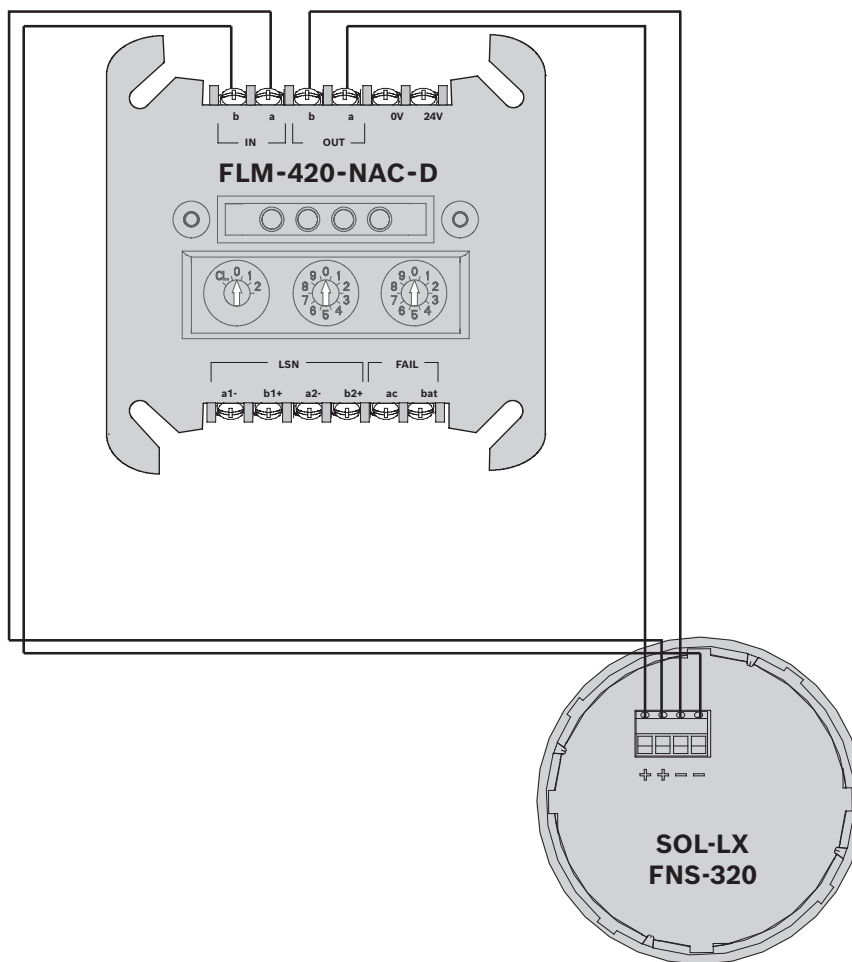
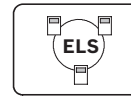
FPP-5000
BCM-0000-B

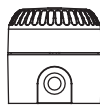




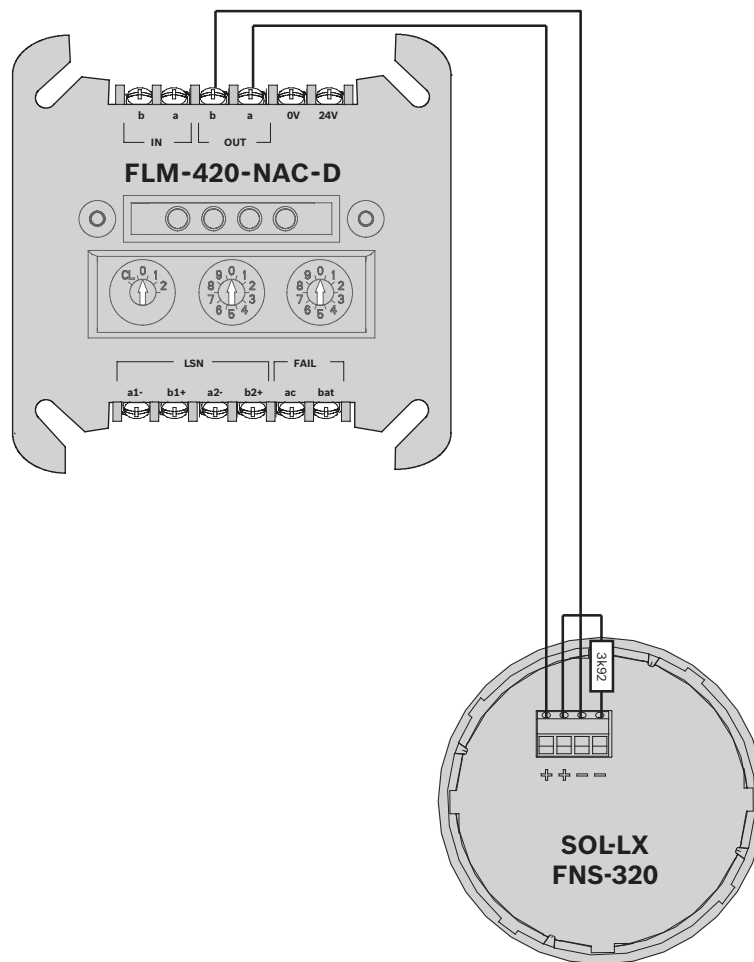
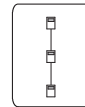
PB 2005

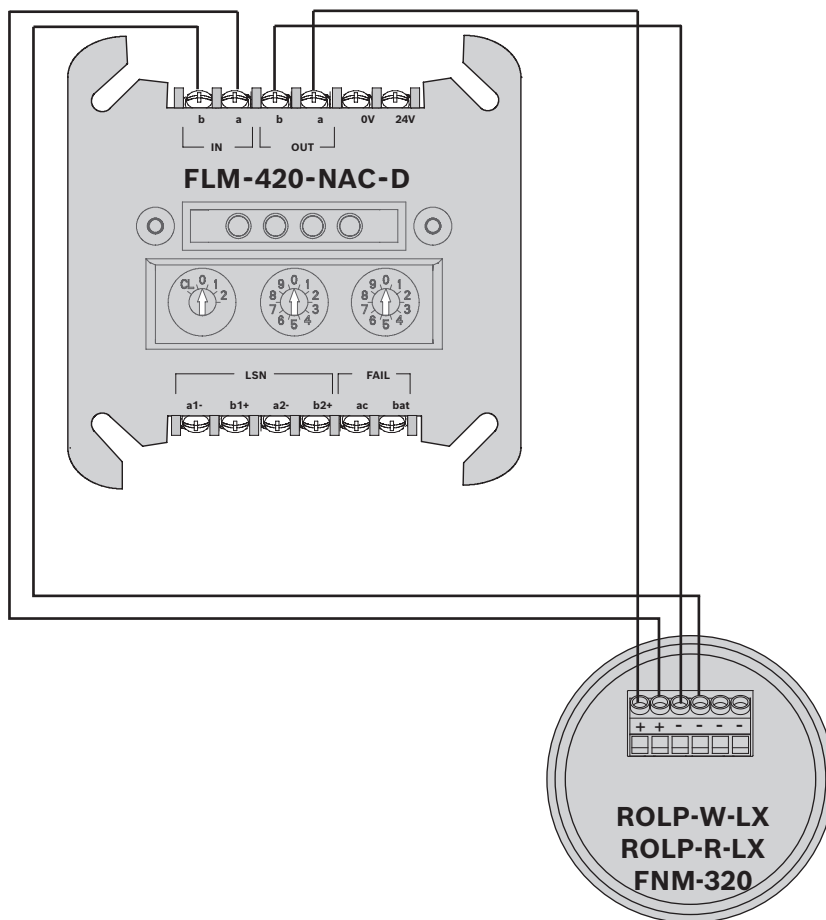
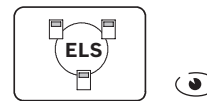






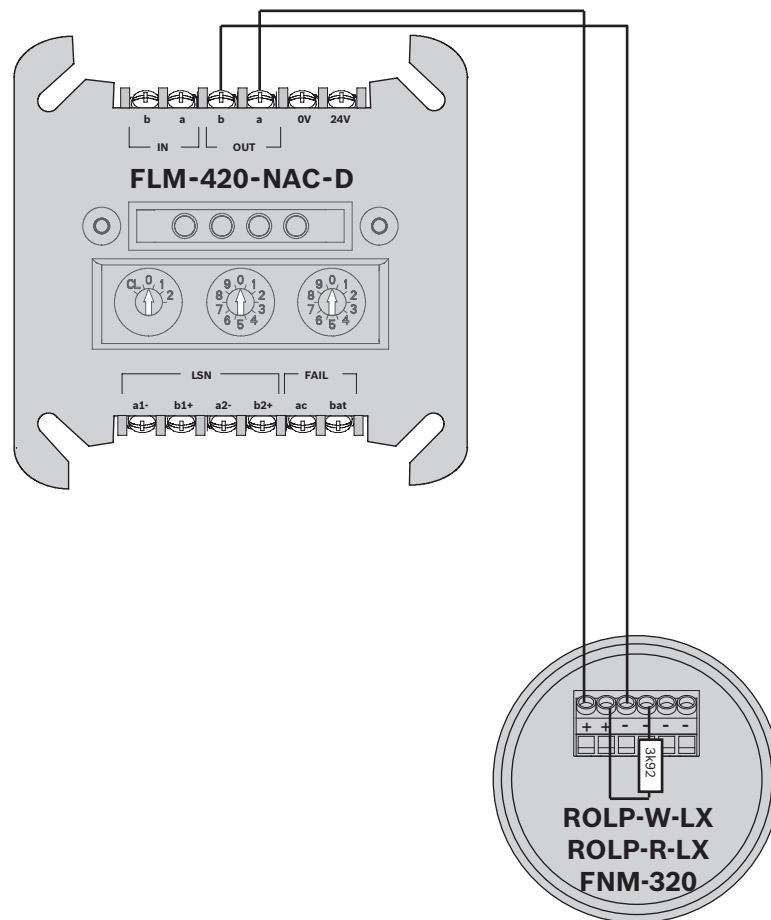
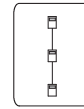
**SOL-LX
FNS-320**



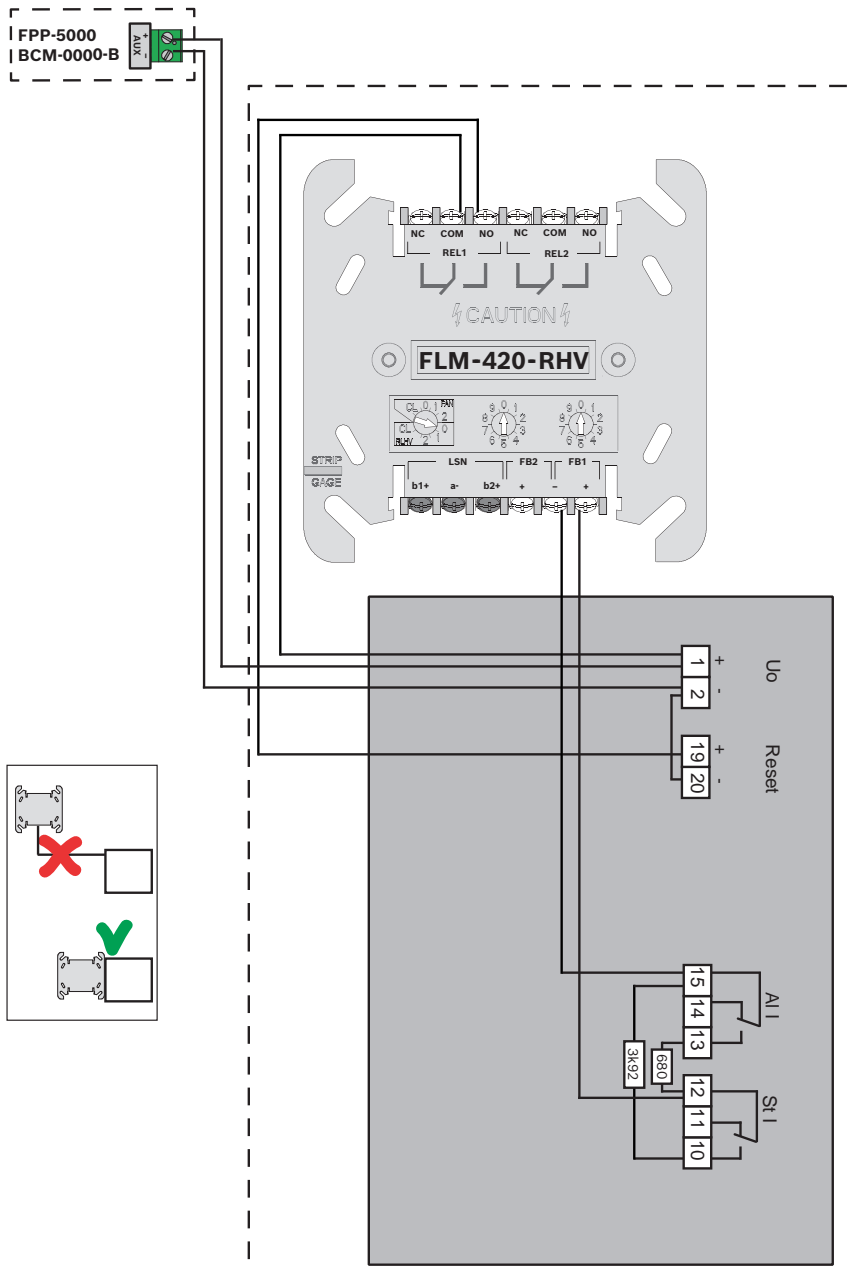




ROLP-W-LX
ROLP-R-LX
FNM-320

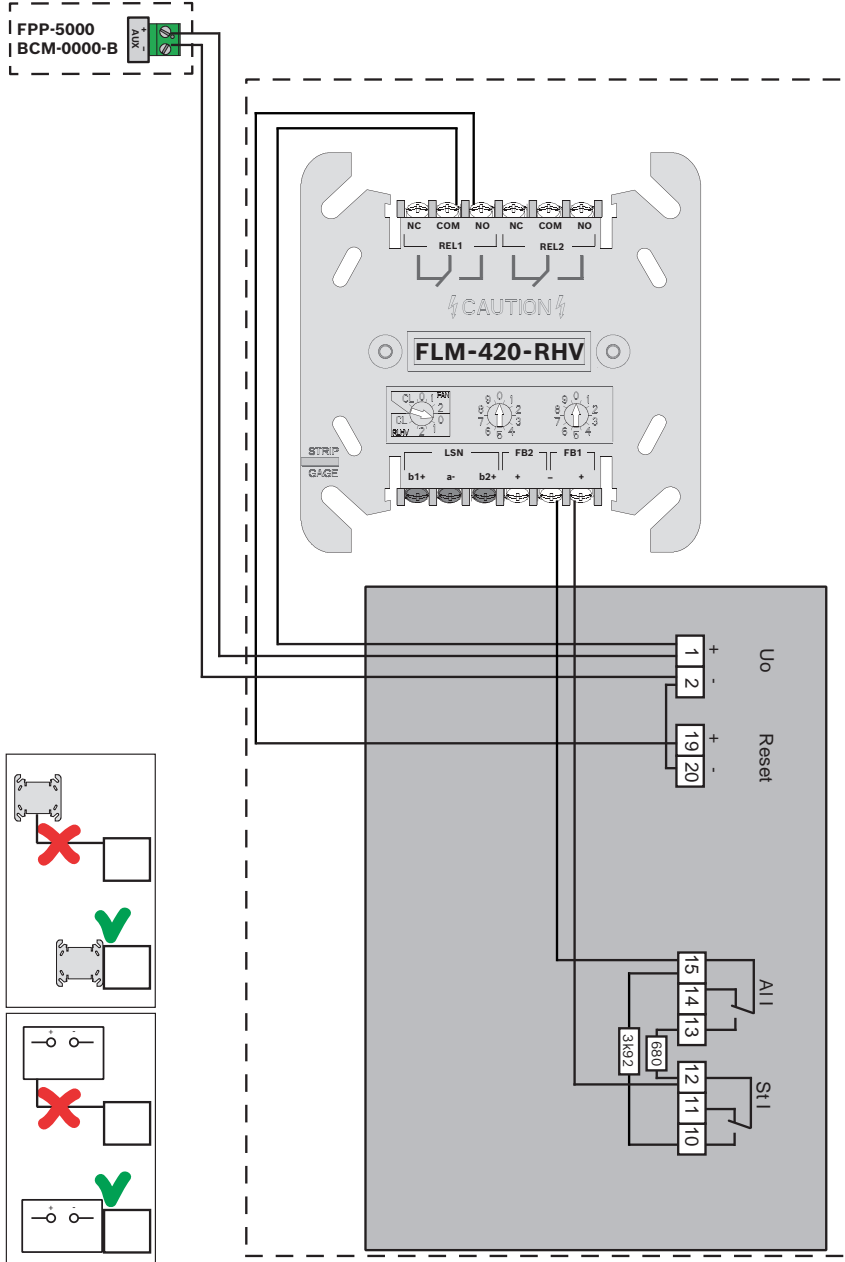


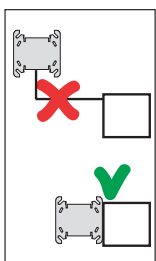
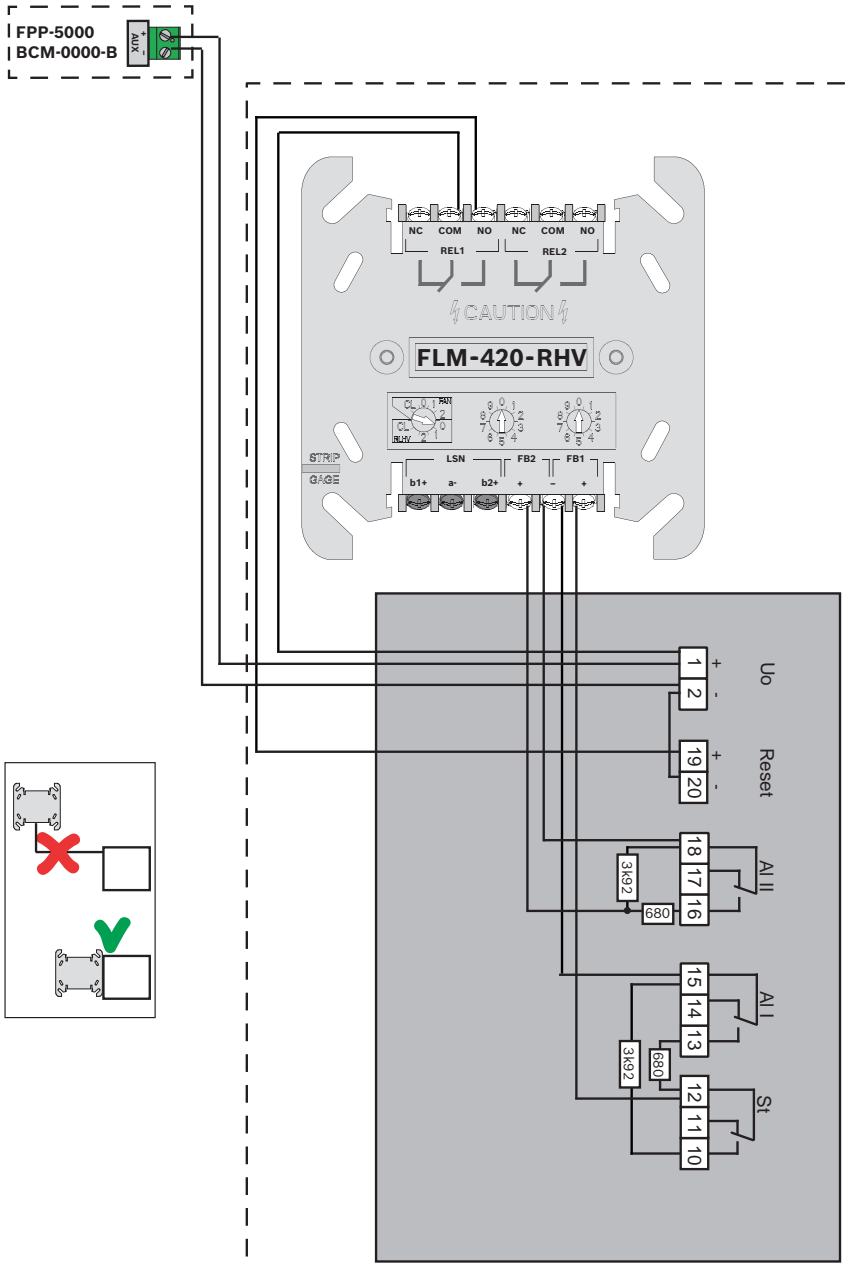
2.5.4 FLM-420-RHV





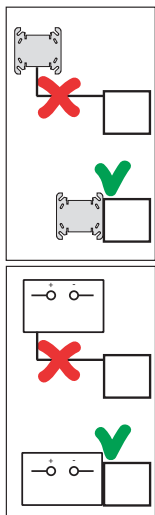
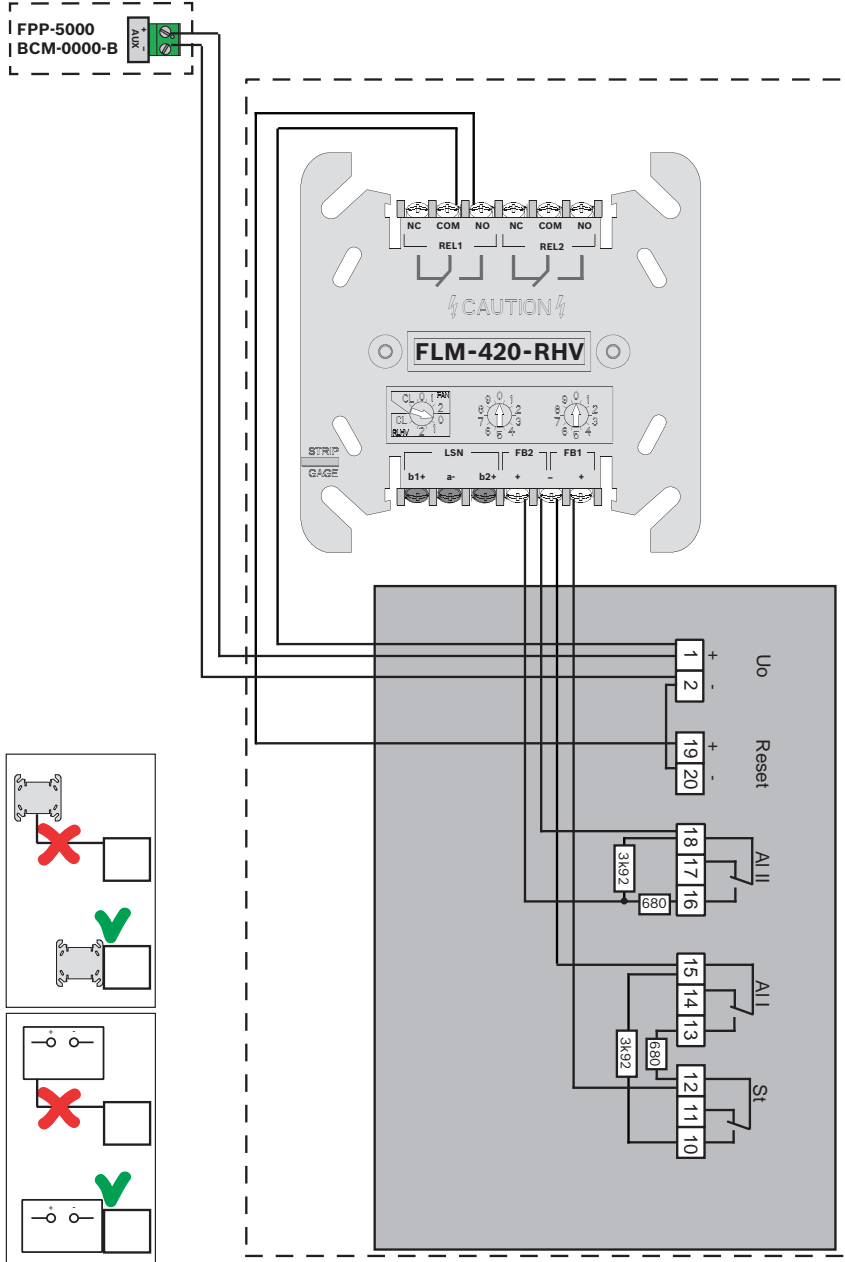
ELS

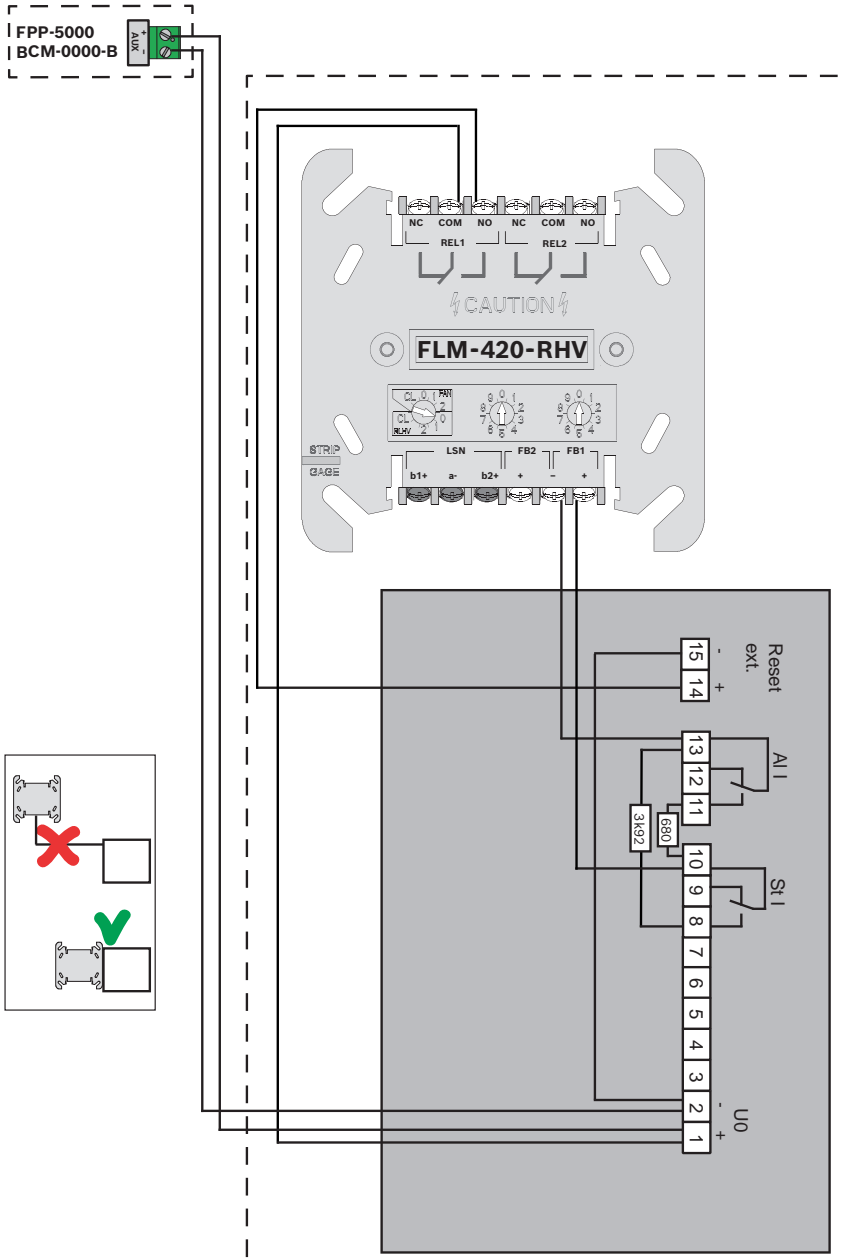






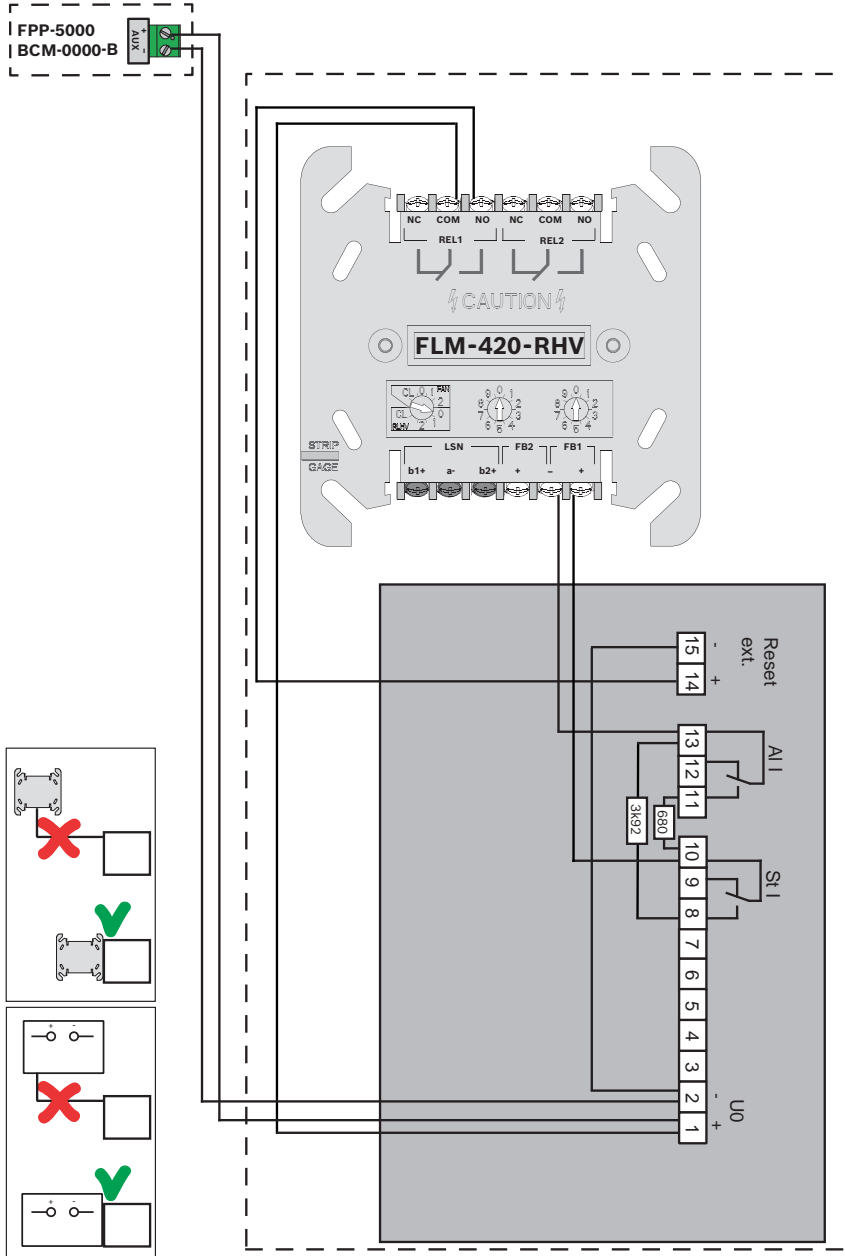
ELS





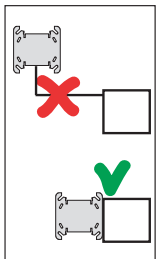
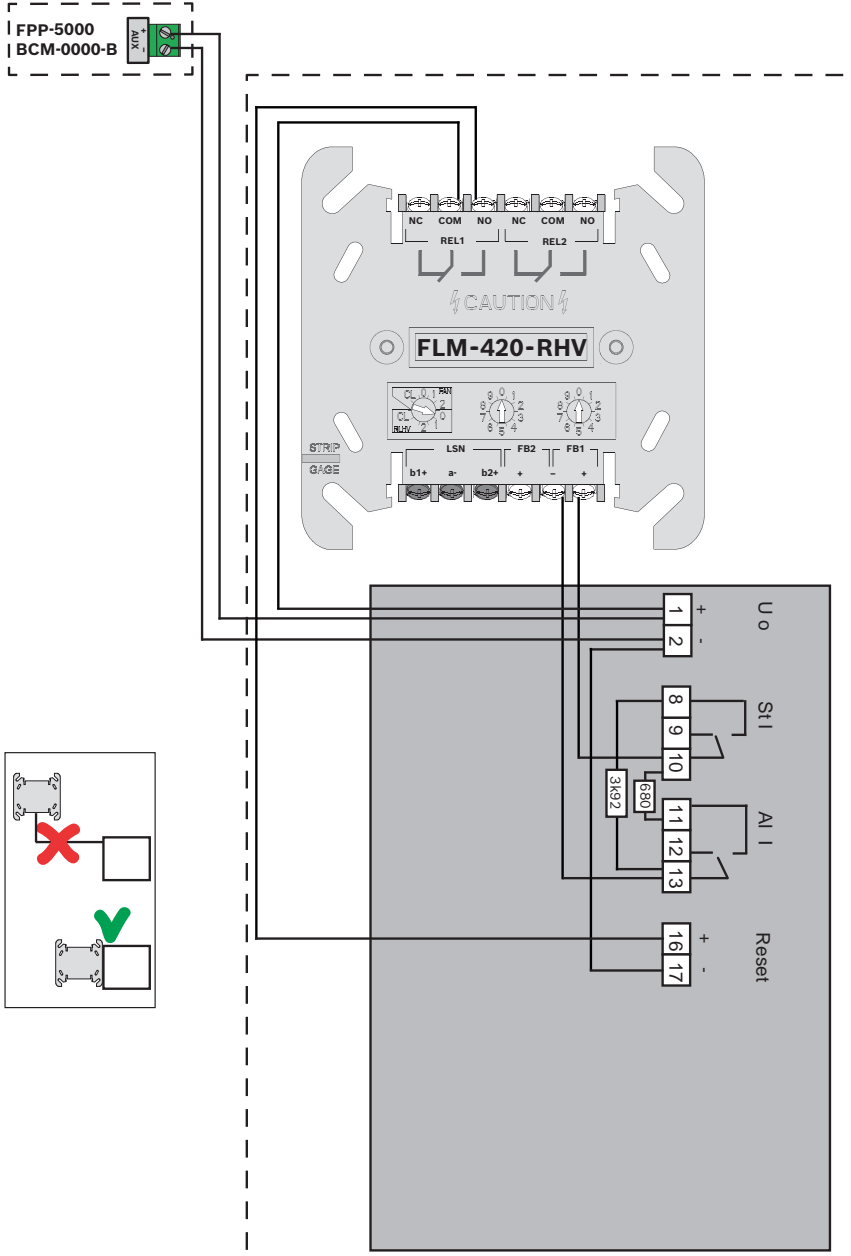


ELS





ADW 535-1

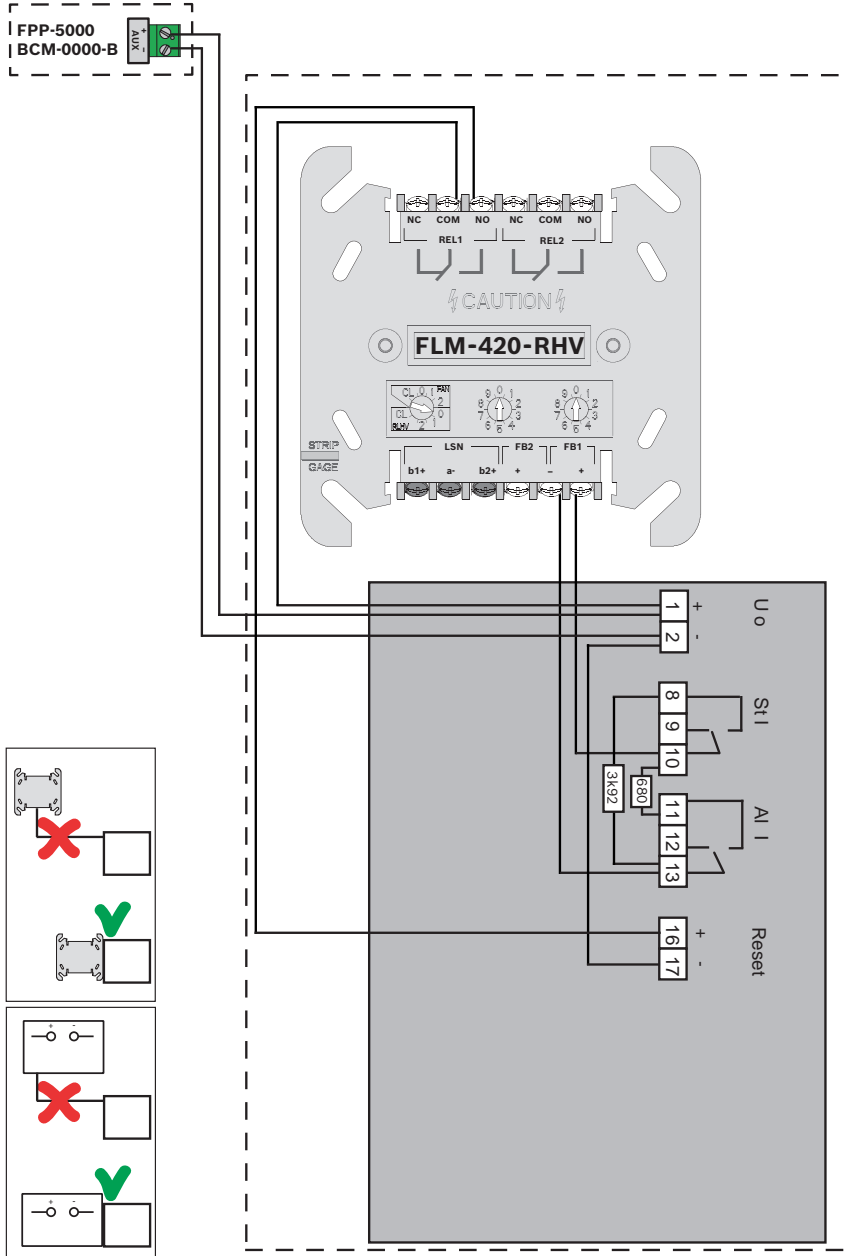




ADW 535-1

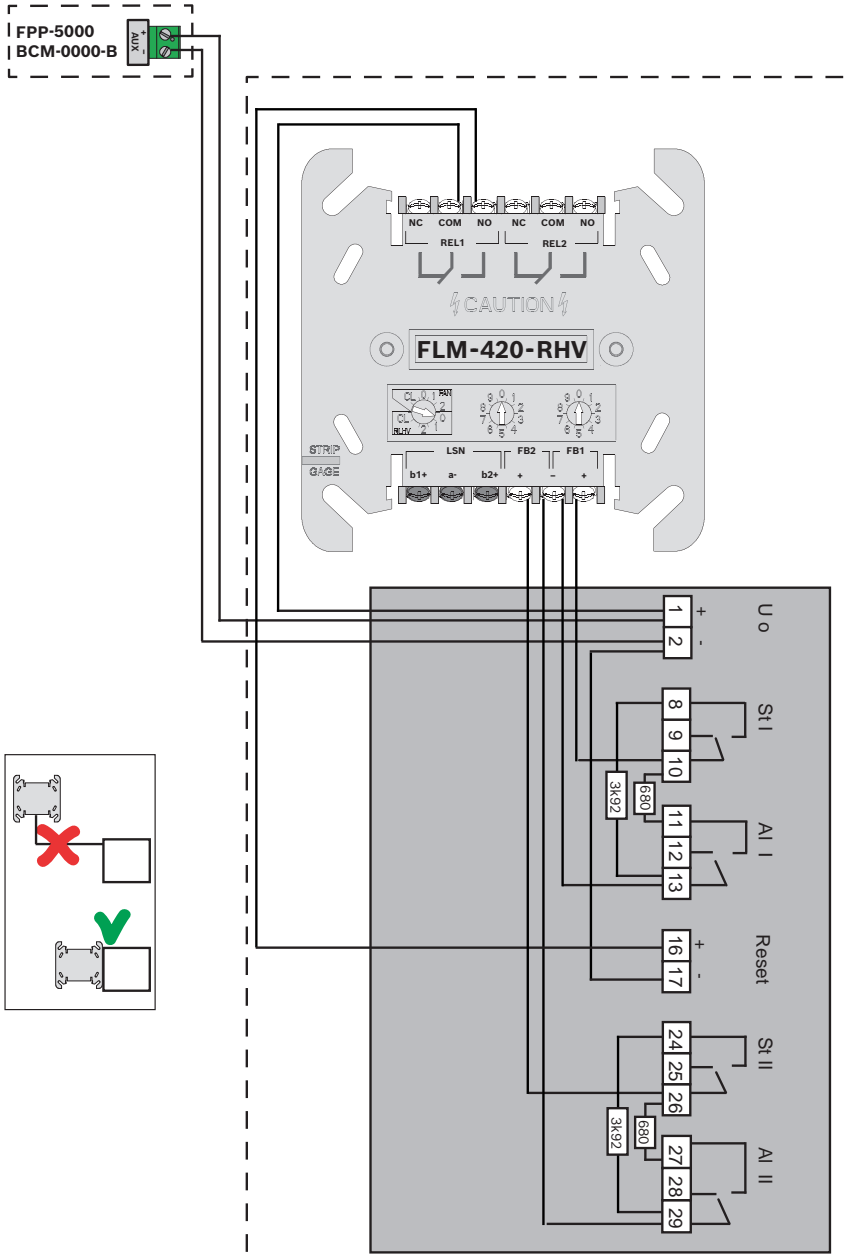


ELS





ADW 535-2

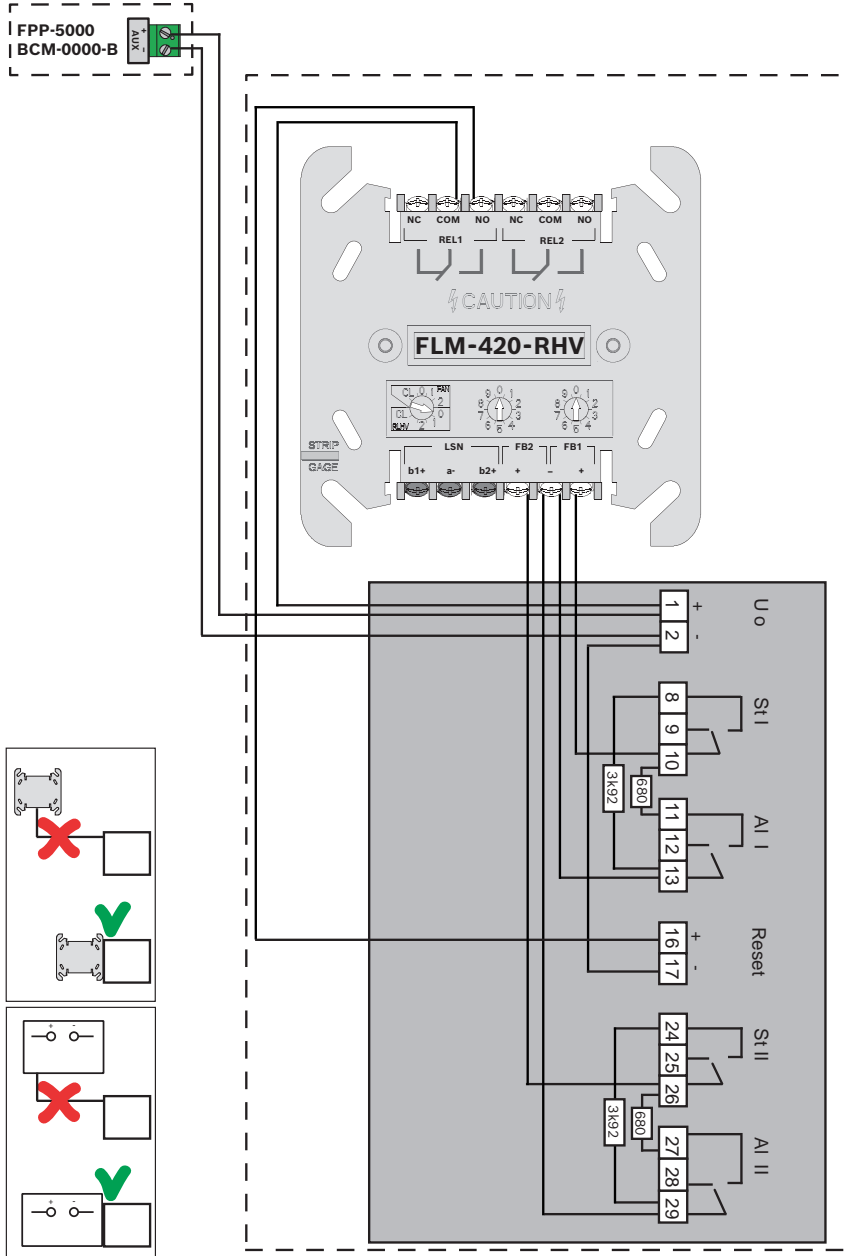




ADW 535-2



ELS



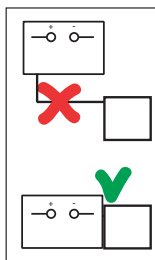
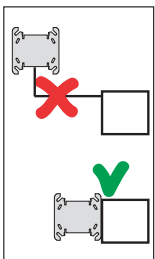
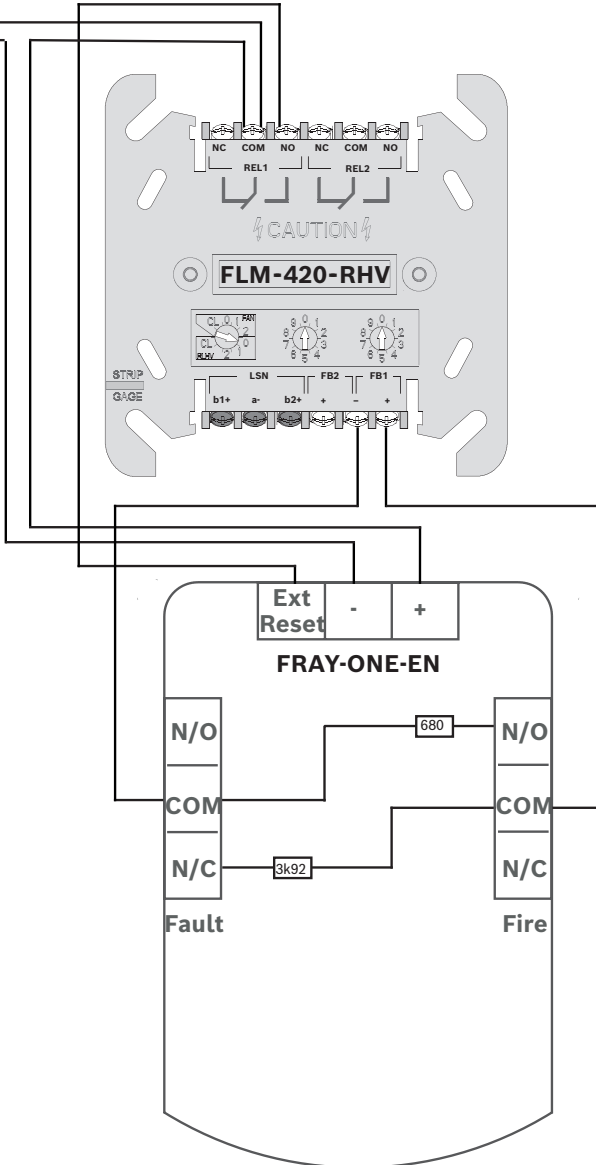


Fireray One



ELS

FPP-5000
BCM-0000-B

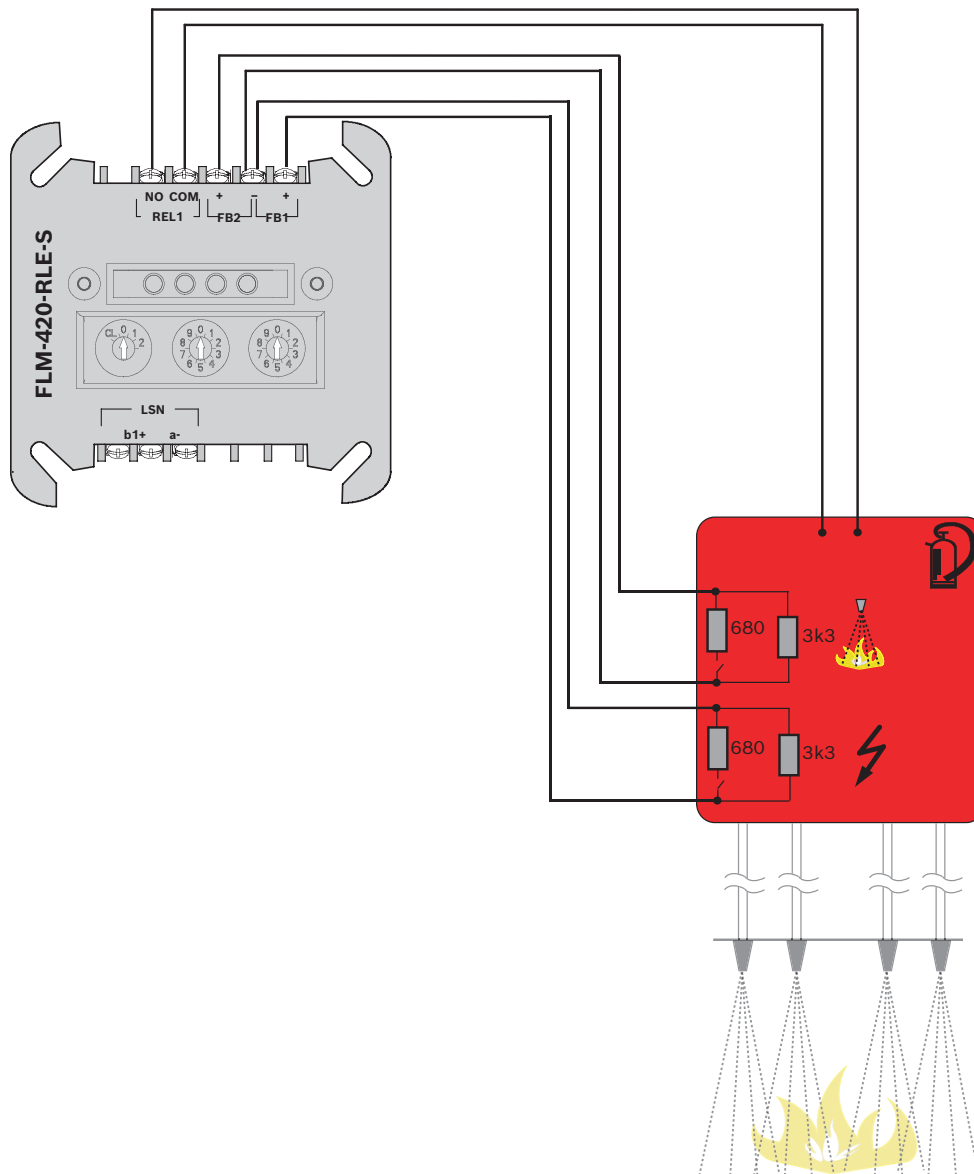


2.5.5

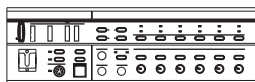
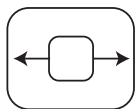
FLM-420-RLE-S



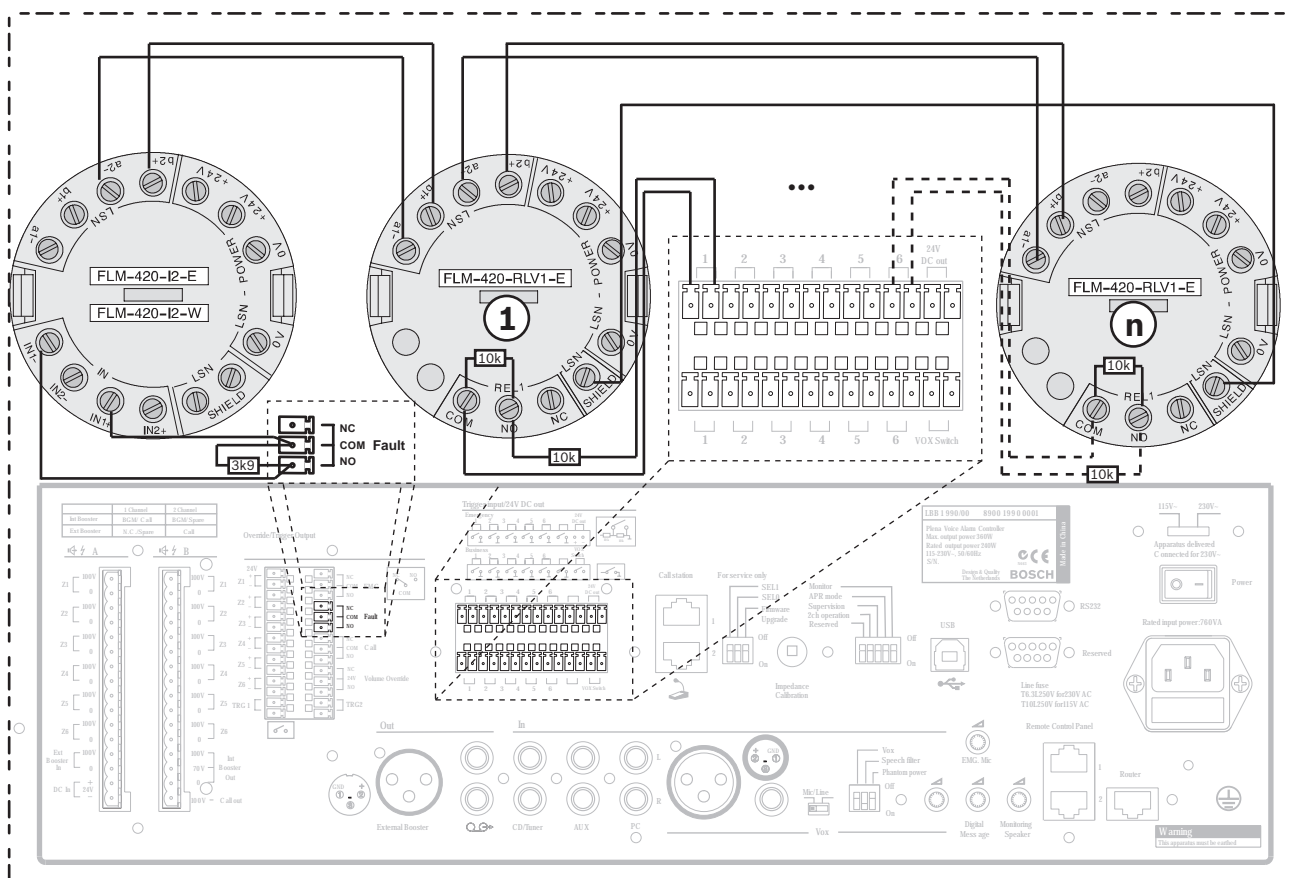
VdS 2496



2.5.6 FLM-420-RLV1-E

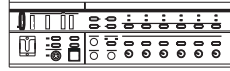
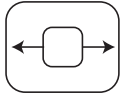


Plena

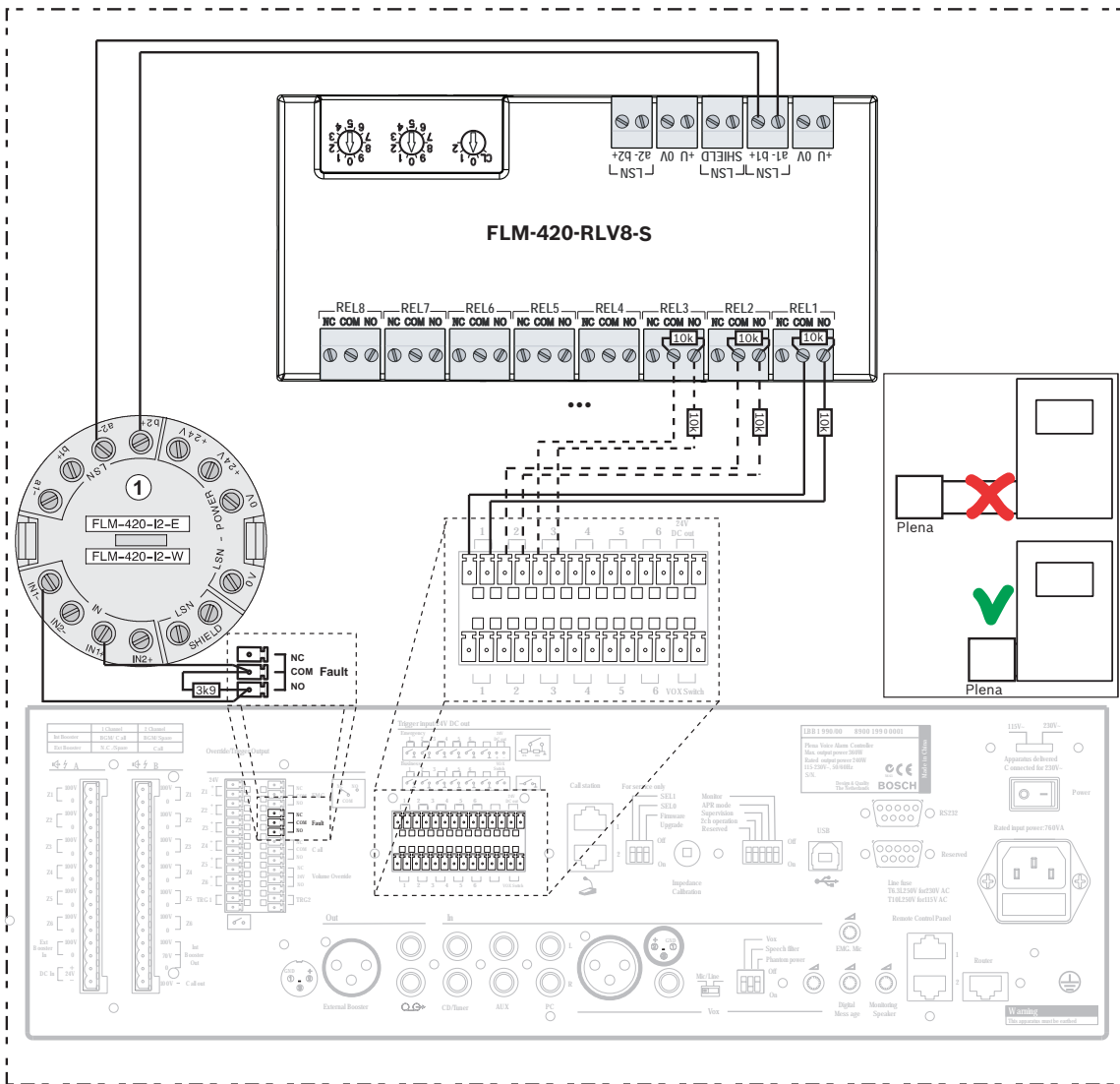
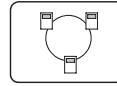


2.5.7

FLM-420-RLV8-S



Plena



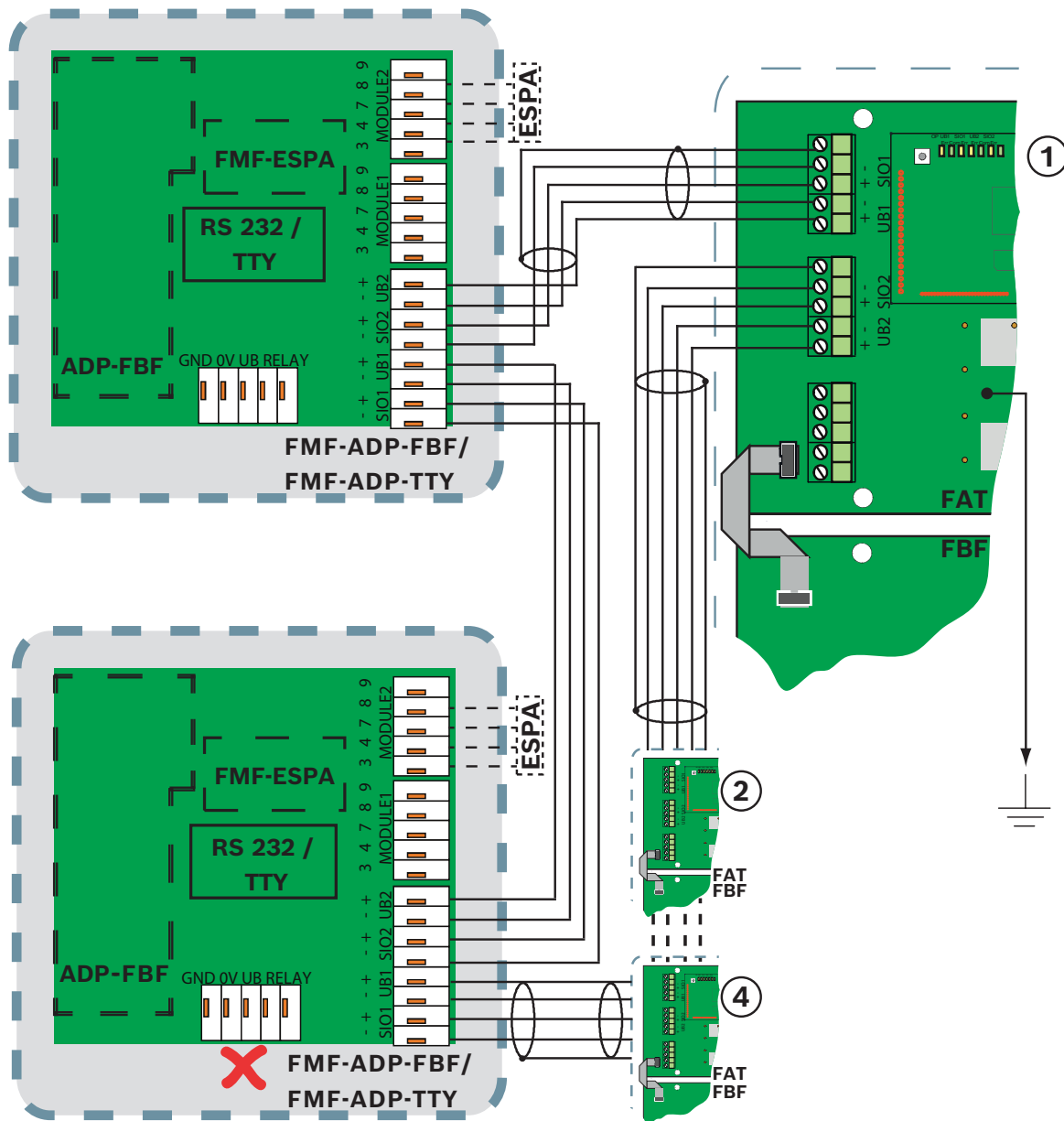
2.5.8 FMF-ADP-FBF/FMF-ADP-TTY



FAT4000 FBF4000 ADP4000

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

ELS



2.6

EOL



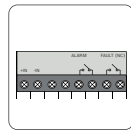
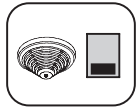
CZM 0004 A, page 189

LSN 0300 A, page 201

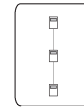
FLM-420/4-CON-S/D, page 246

2.6.1

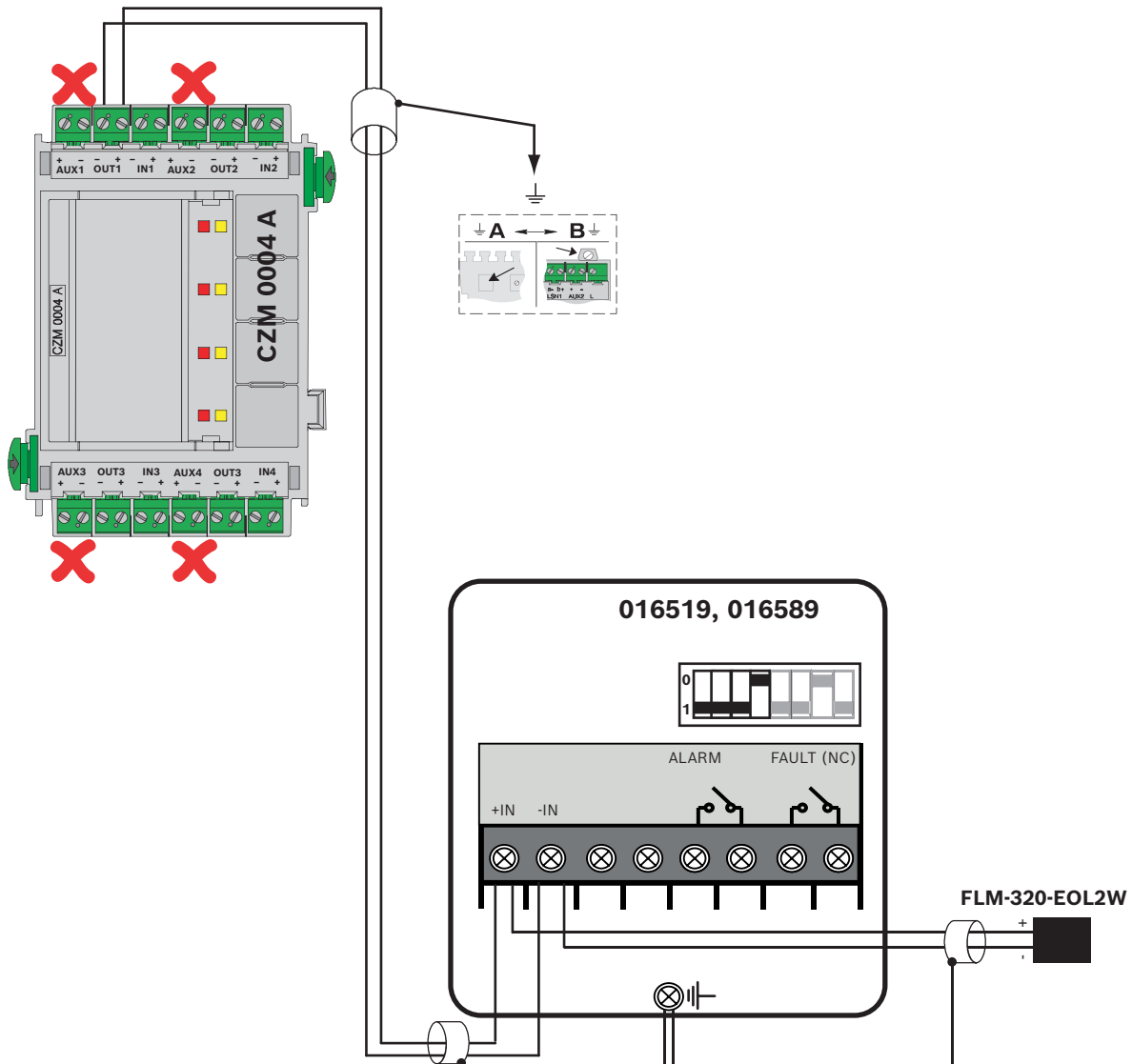
CZM 0004 A

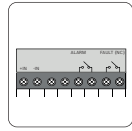


016519, 016589
IR3 Flame Detector

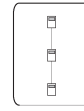


ELS

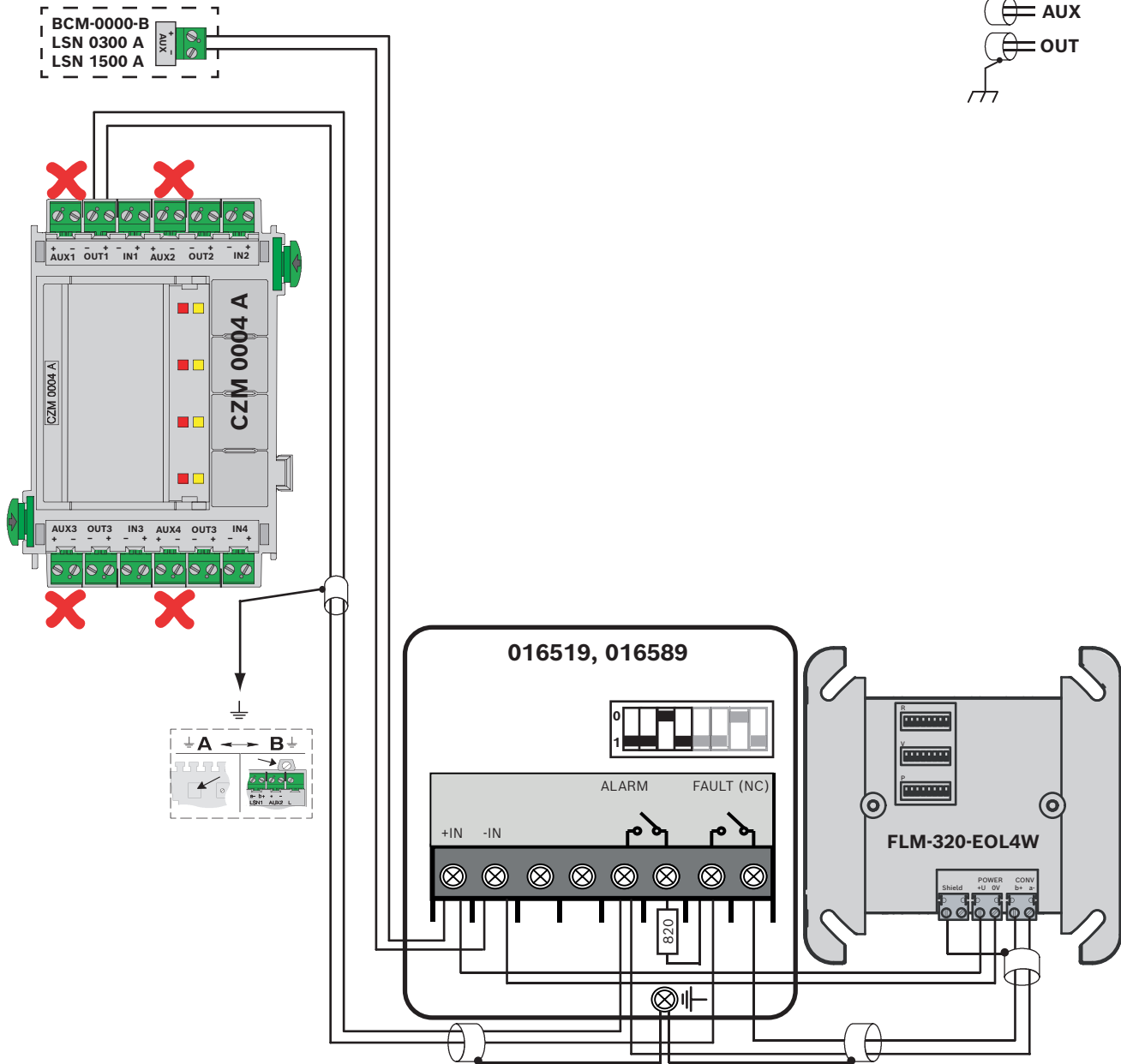




016519, 016589
IR3 Flame Detector



ELS

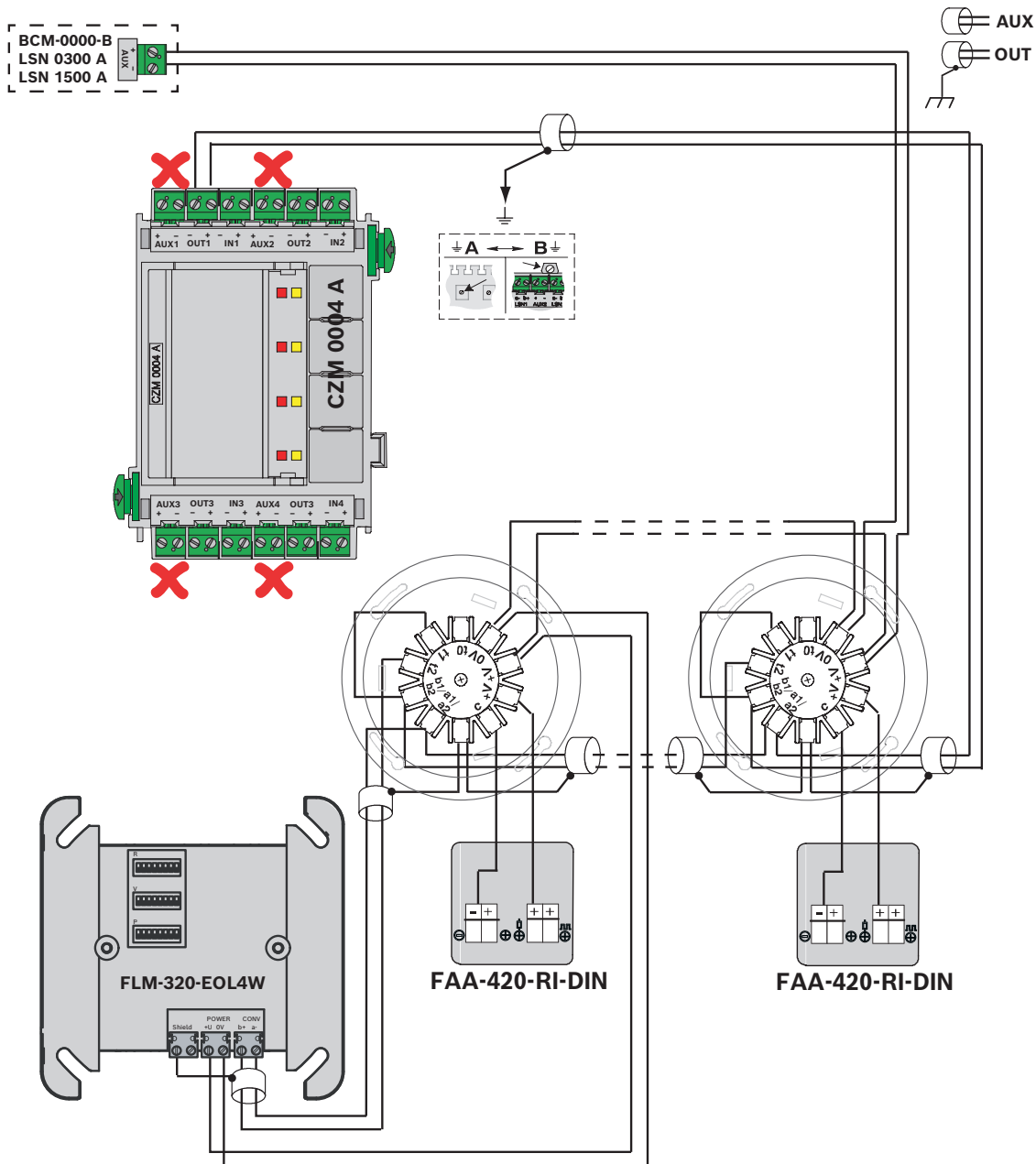


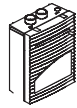


FCA-500-EU
FCP-O 500
FCP-O 500-P
FCP-OC 500
FCP-OC 500-P

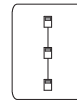


ELS



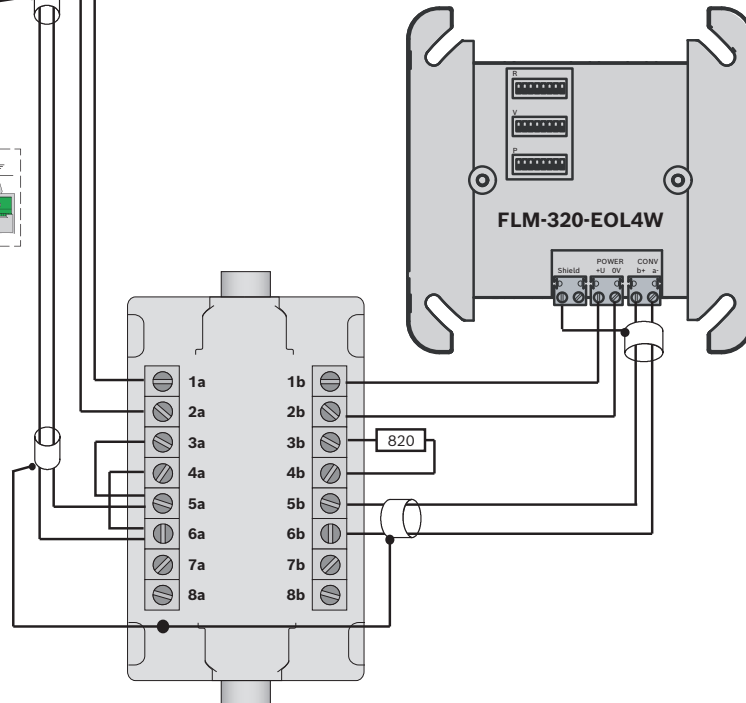
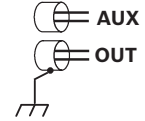
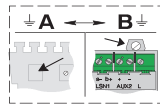
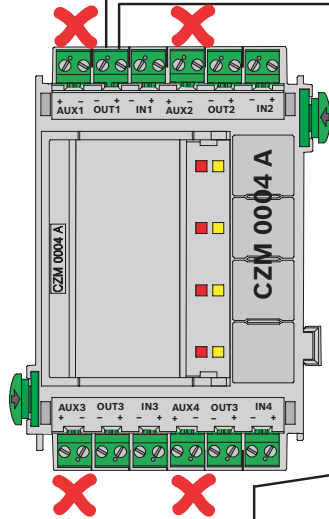


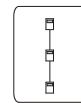
FCS-320-TM Series



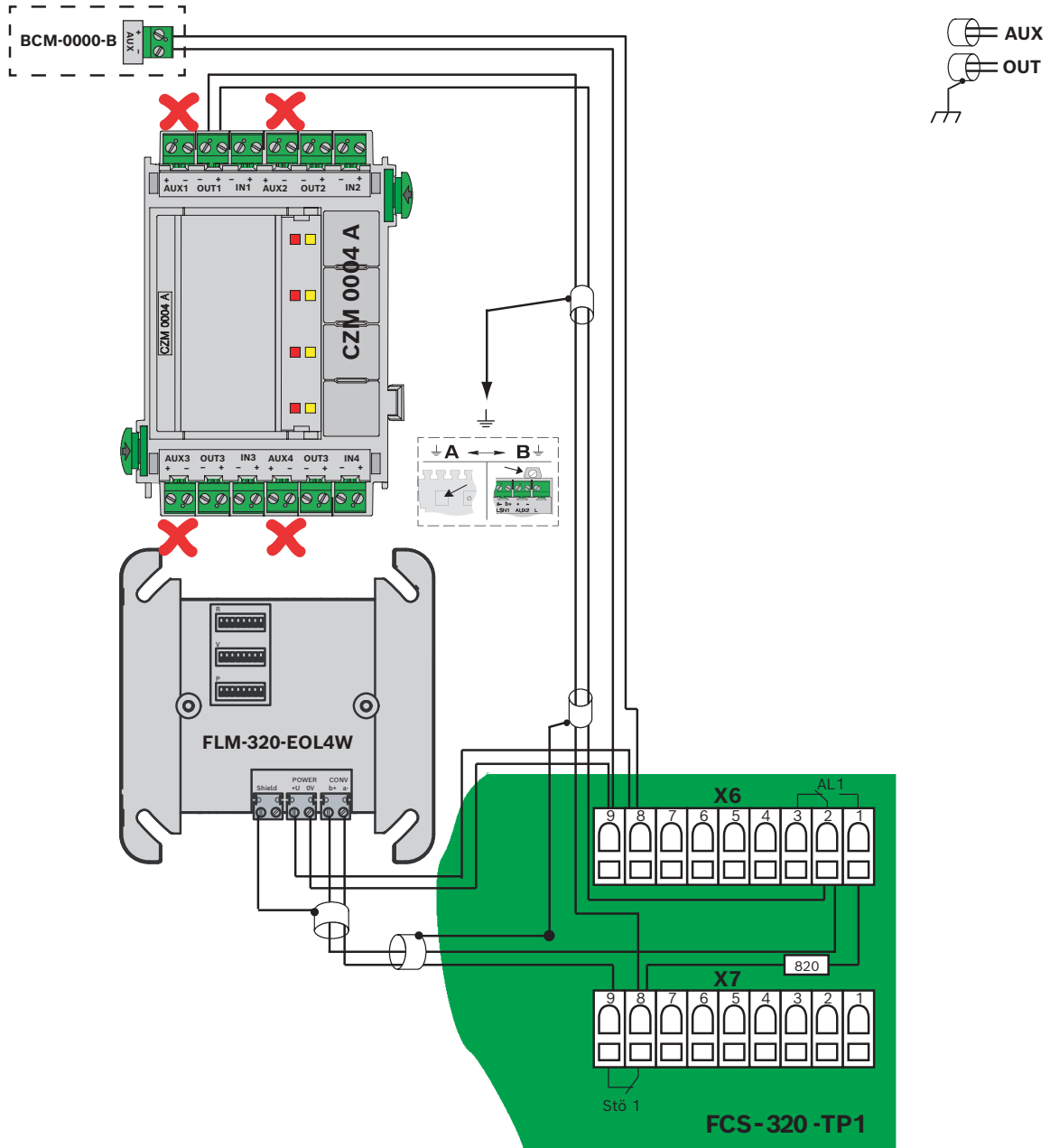
ELS

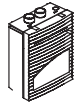
BCM-0000-B
LSN 0300 A
LSN 1500 A





ELS

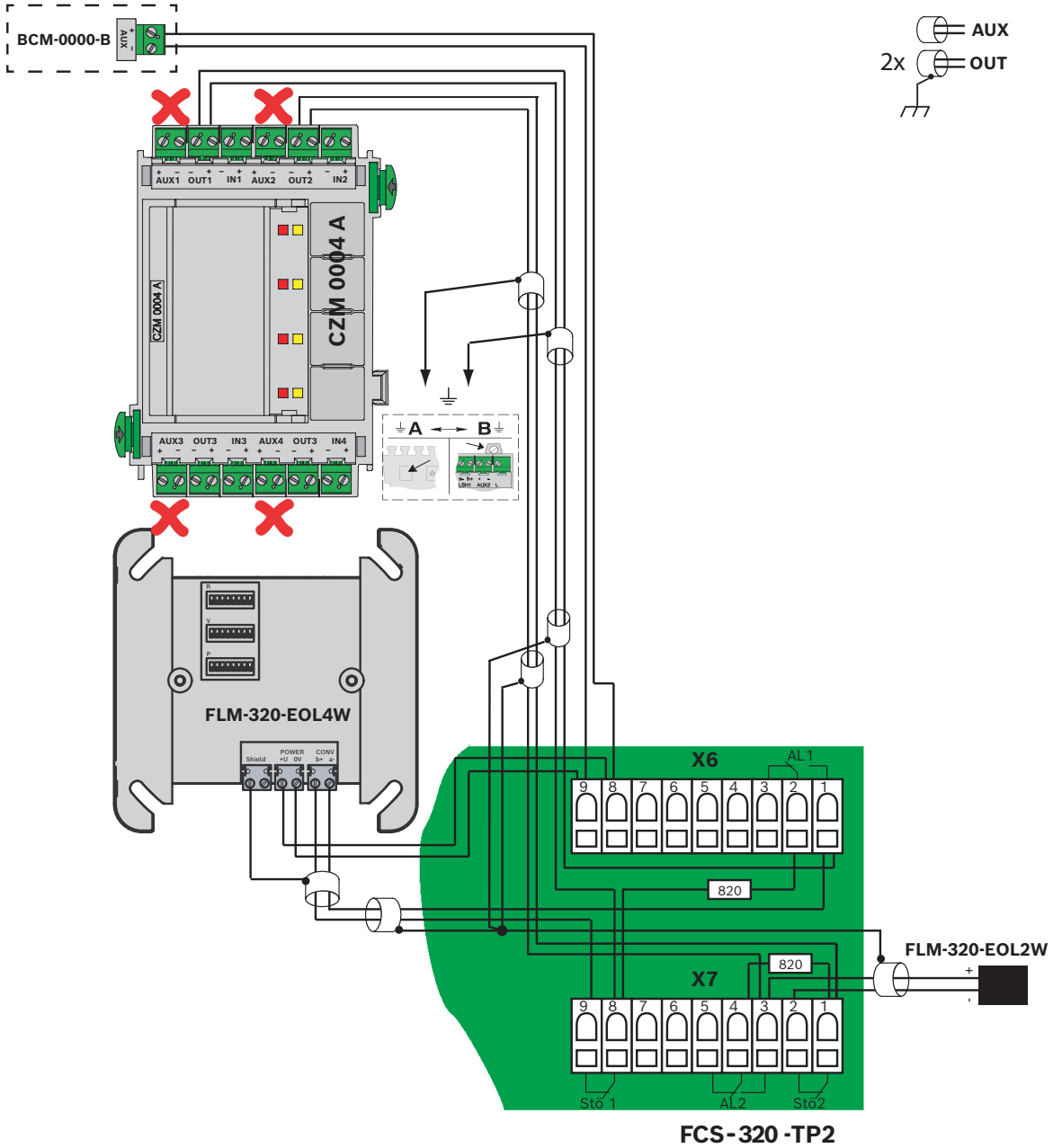


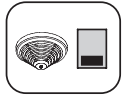


FCS-320-TP2



ELS





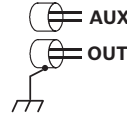
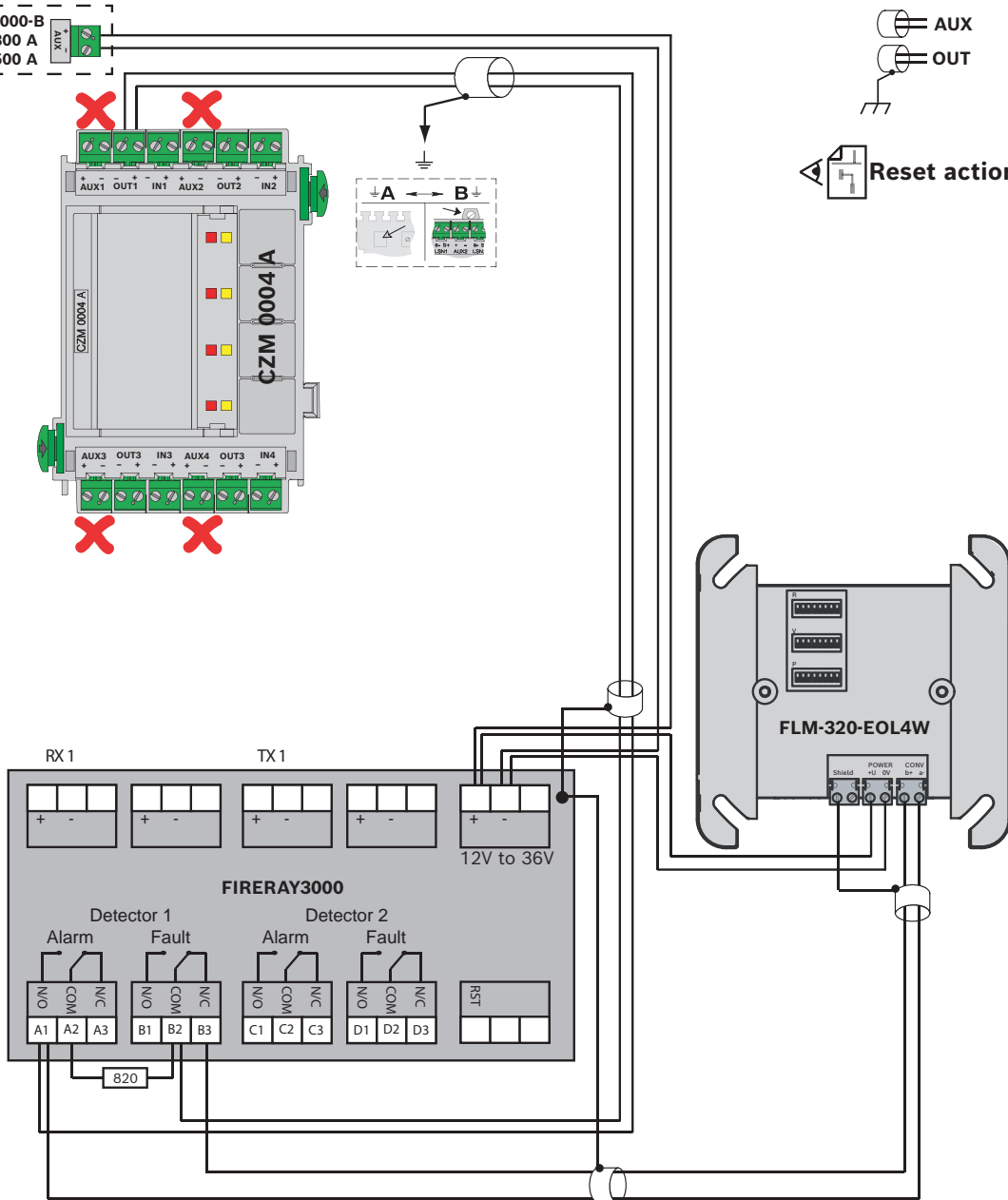
FIRERAY3000

1 x

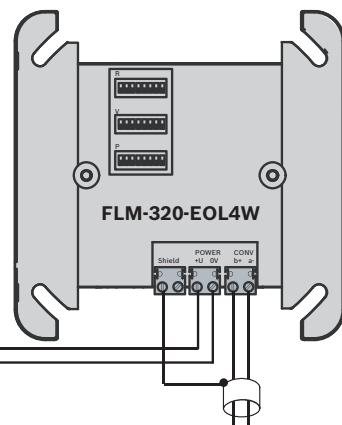
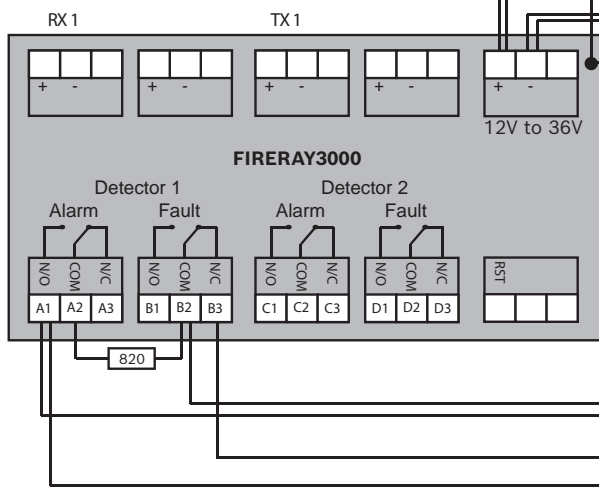


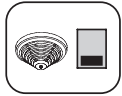
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action

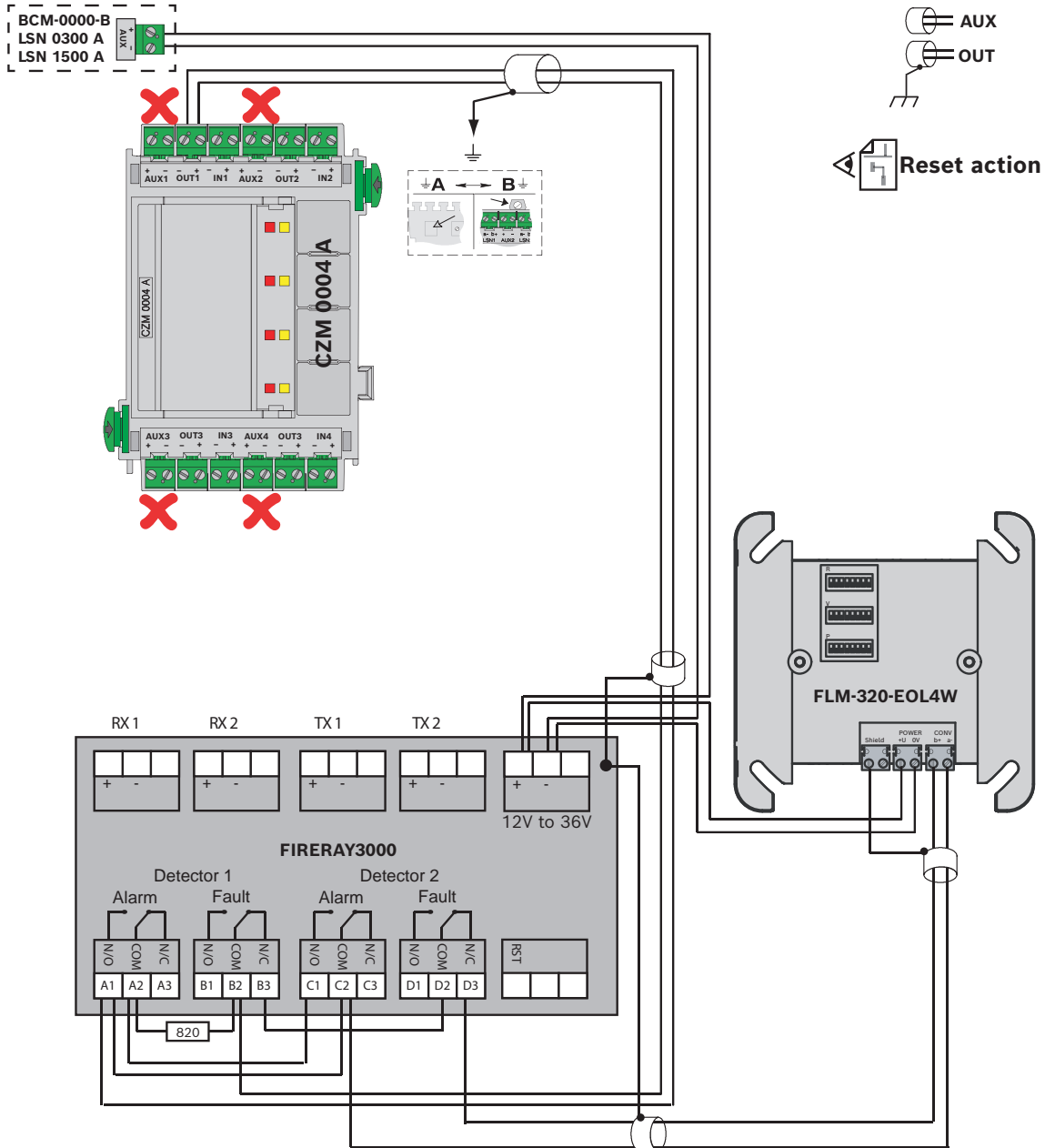




FIRERAY3000
2 x  **OUT1**



ELS



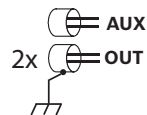
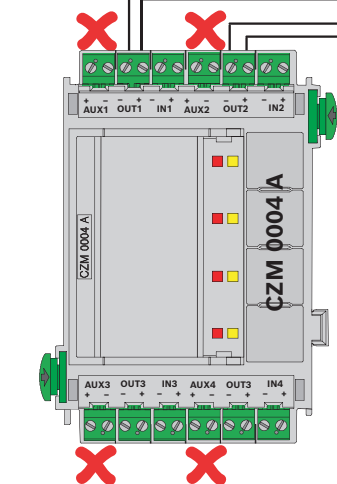


FIRERAY3000
2 x **OUT1+2**

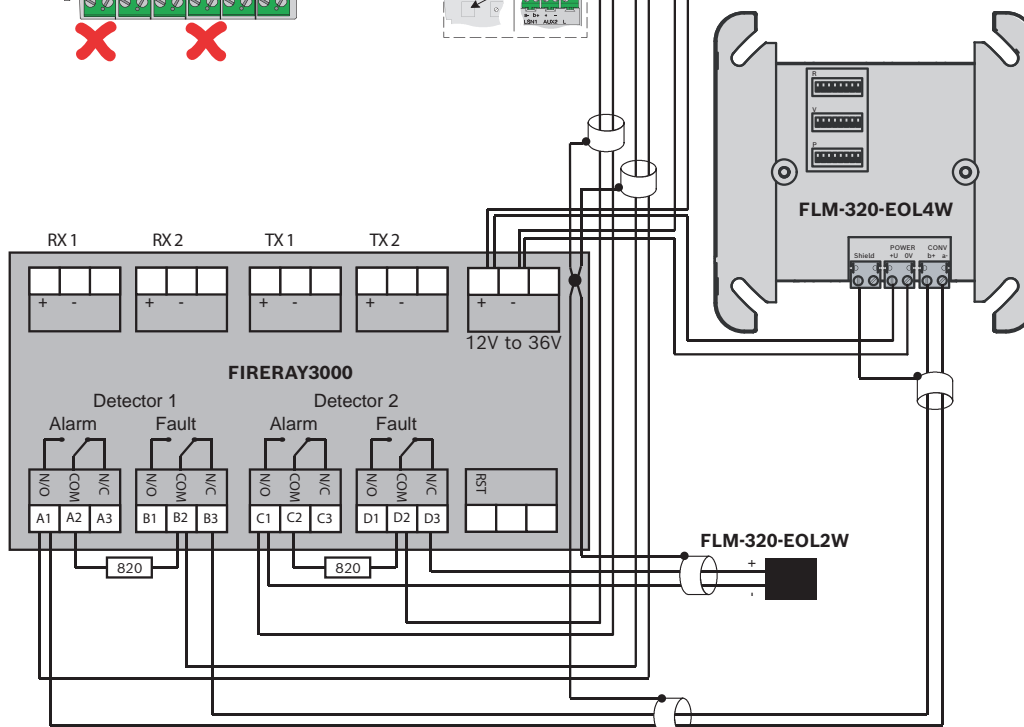
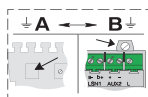


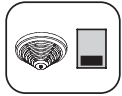
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



Reset action



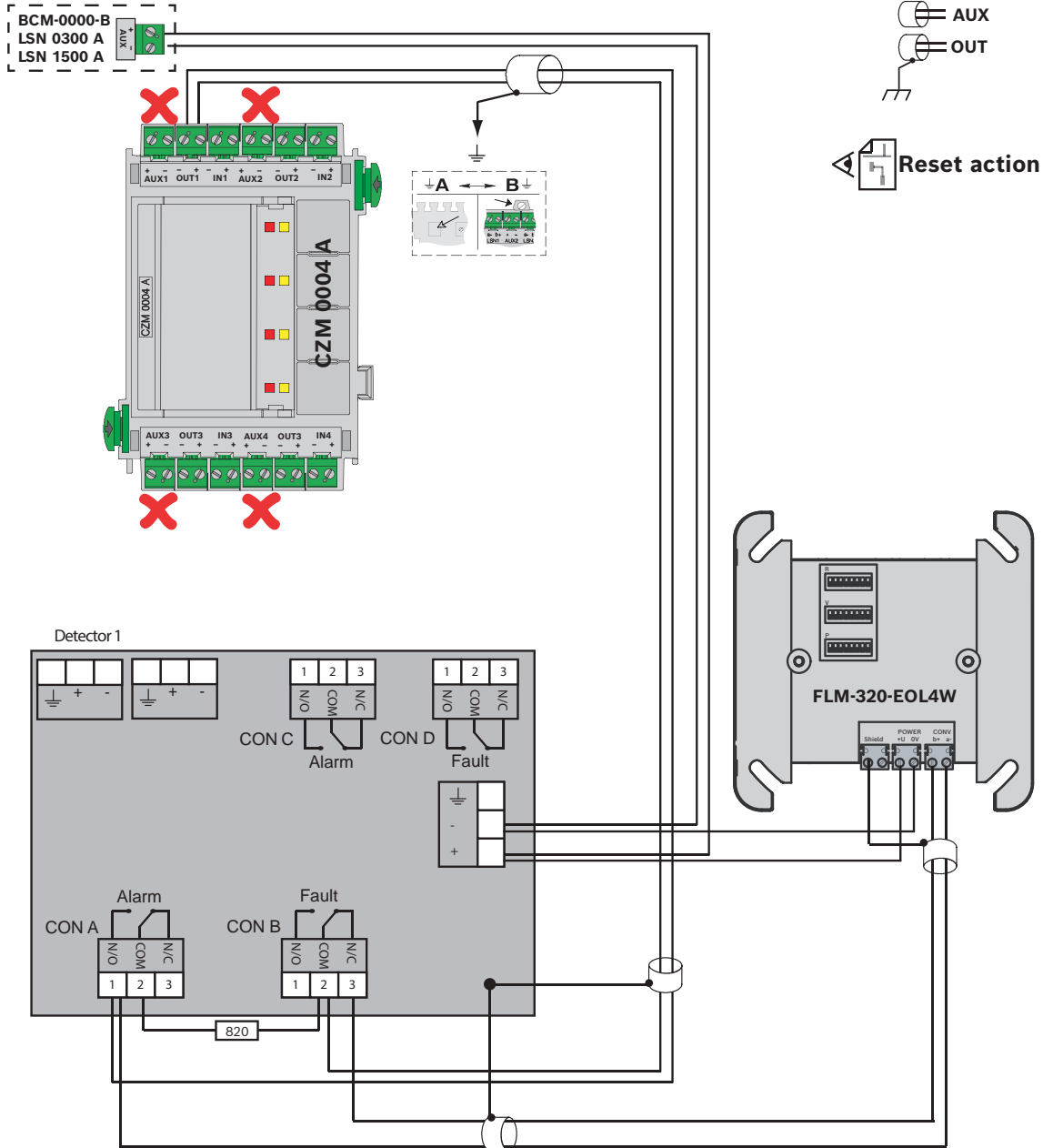


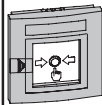
FIRERAY5000

1 x

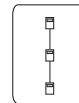


ELS

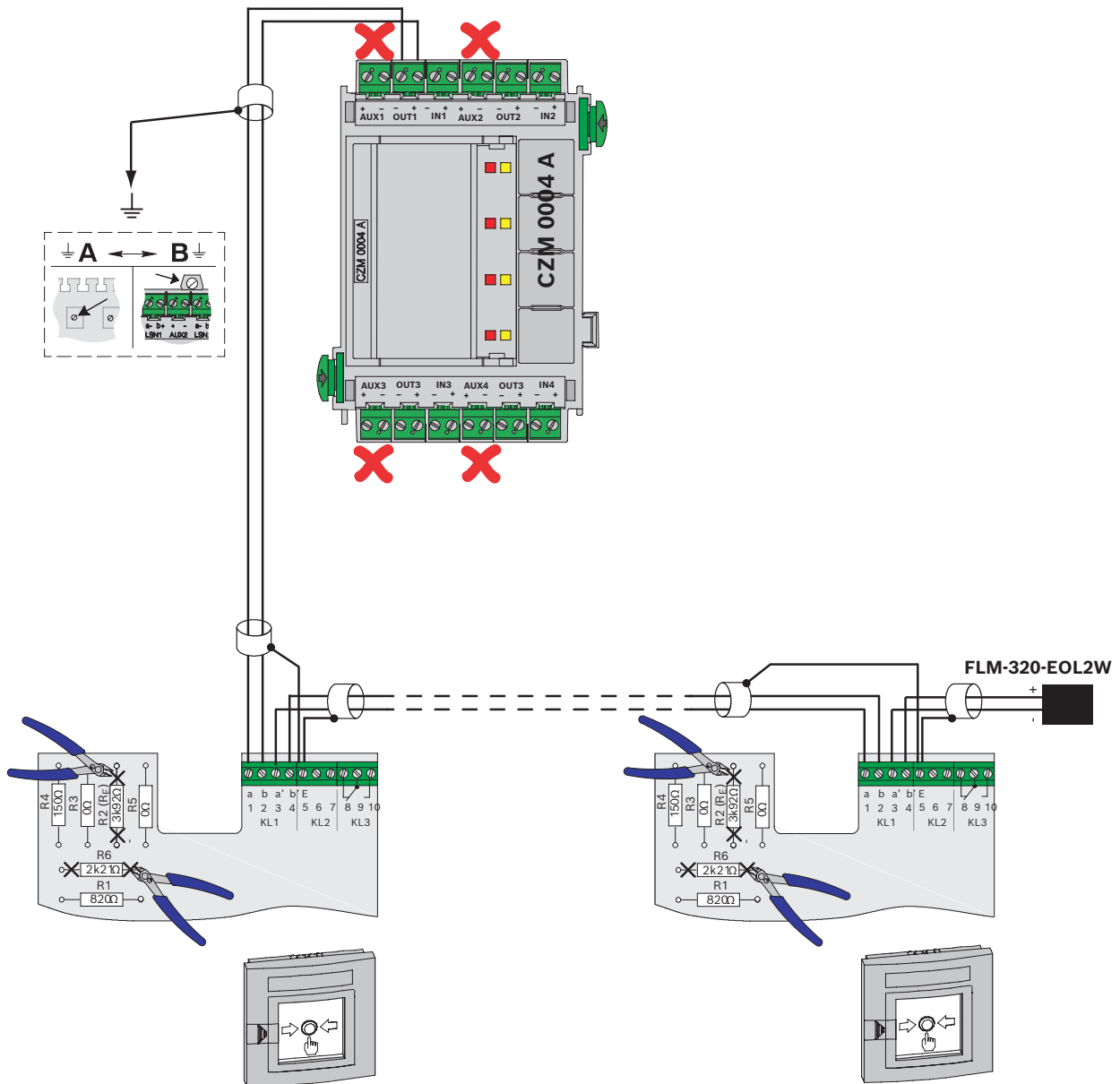


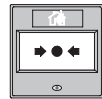
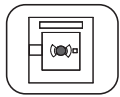


FMC-120-DKM-G-R
 FMC-120-DKM-H-R
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B
 FMC-120-DKM-G-Y



ELS

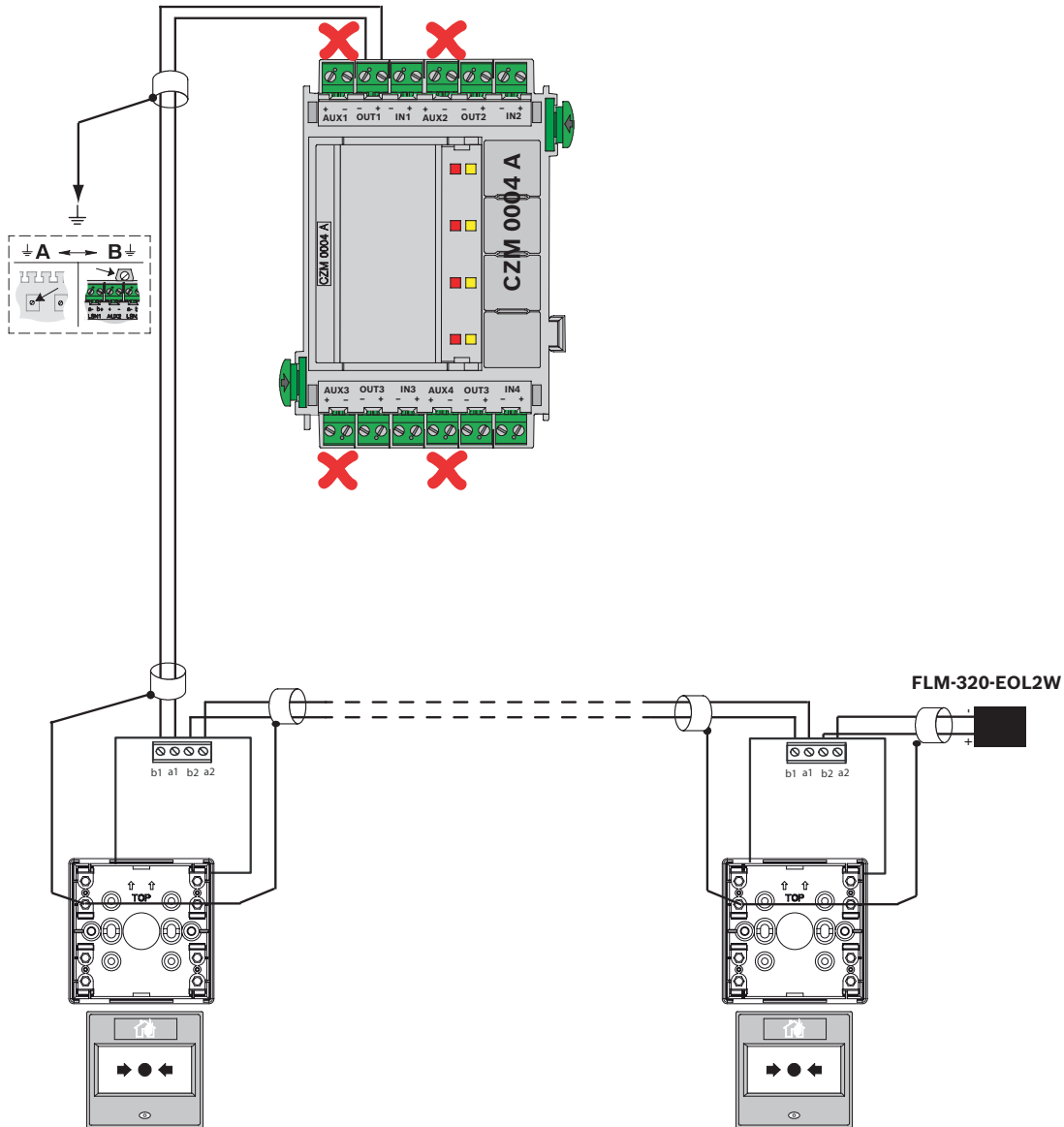




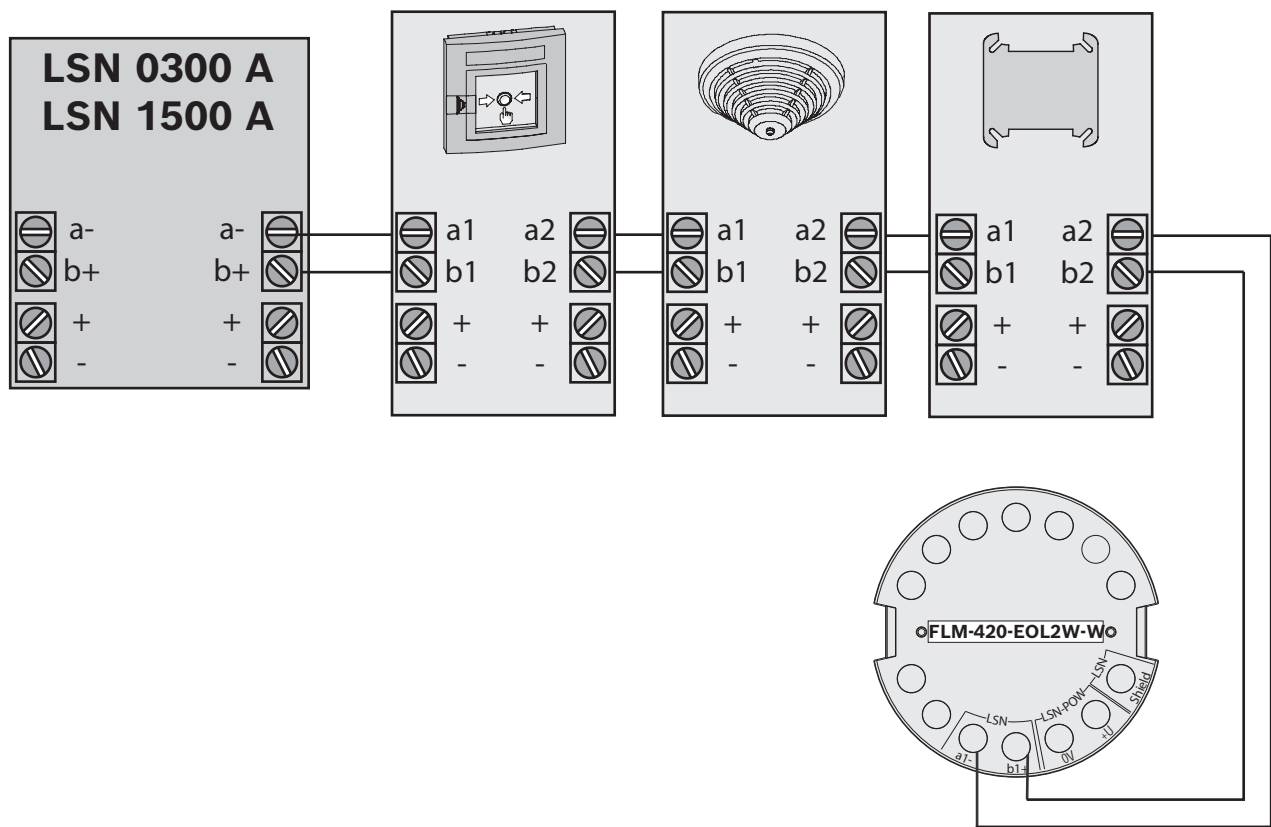
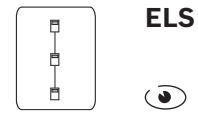
FMC-300RW-GSGBU
 FMC-300RW-GSRBU
 FMC-300RW-GSGRD
 FMC-300RW-GSRRD
 FMC-300RW-GSGYE
 FMC-300RW-GSRYE

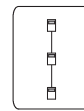


ELS

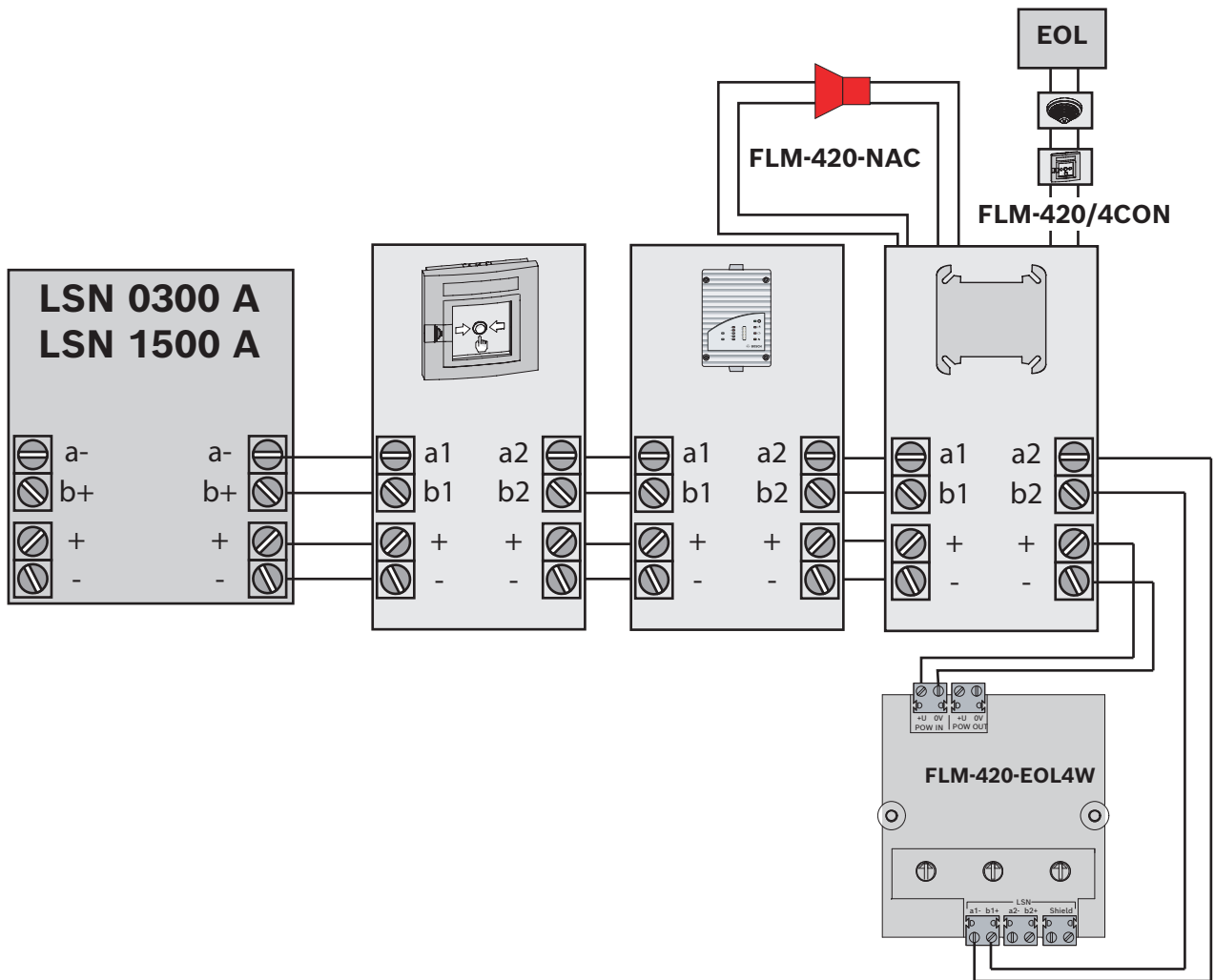


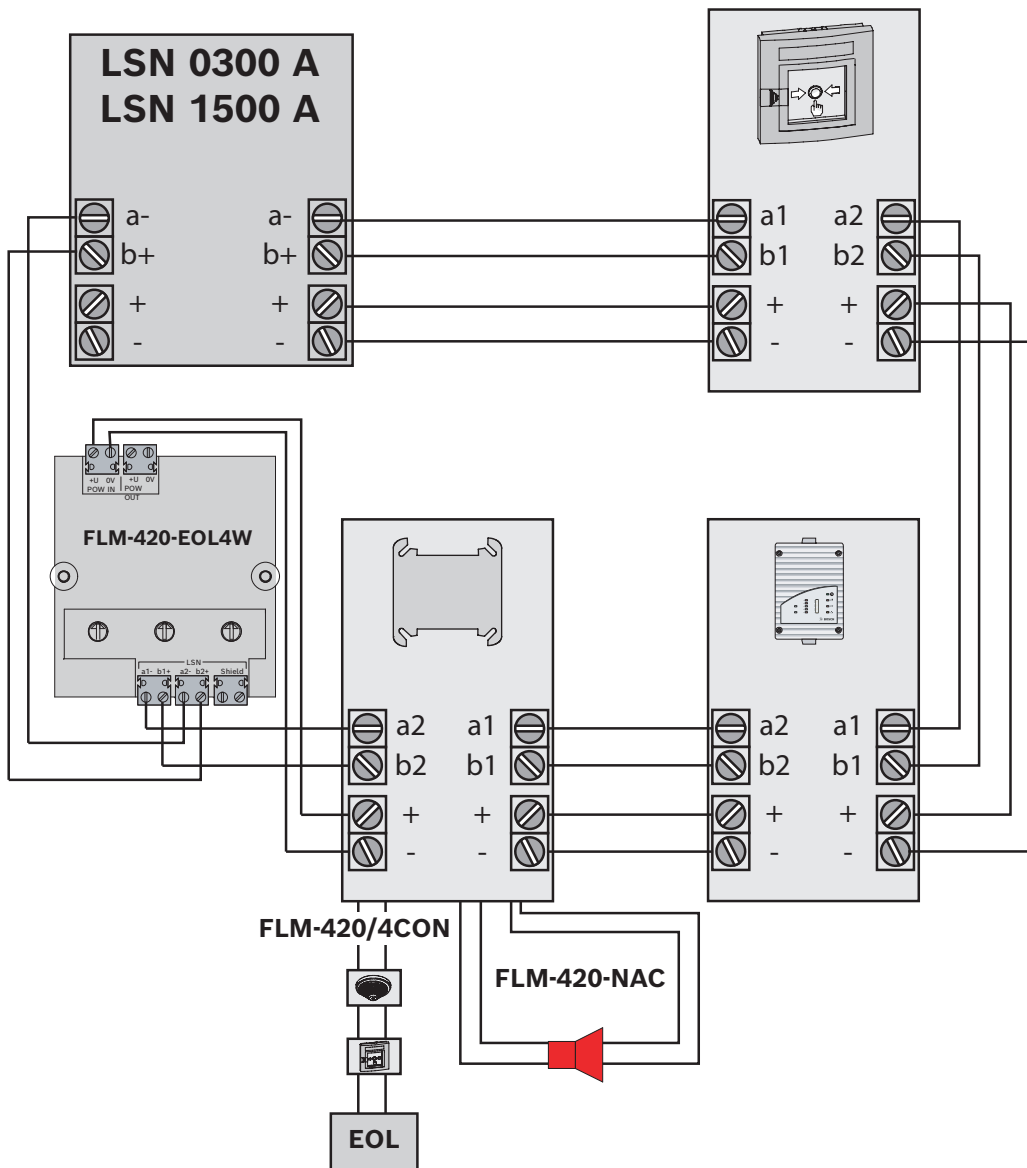
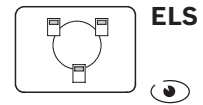
2.6.2 LSN 0300 A





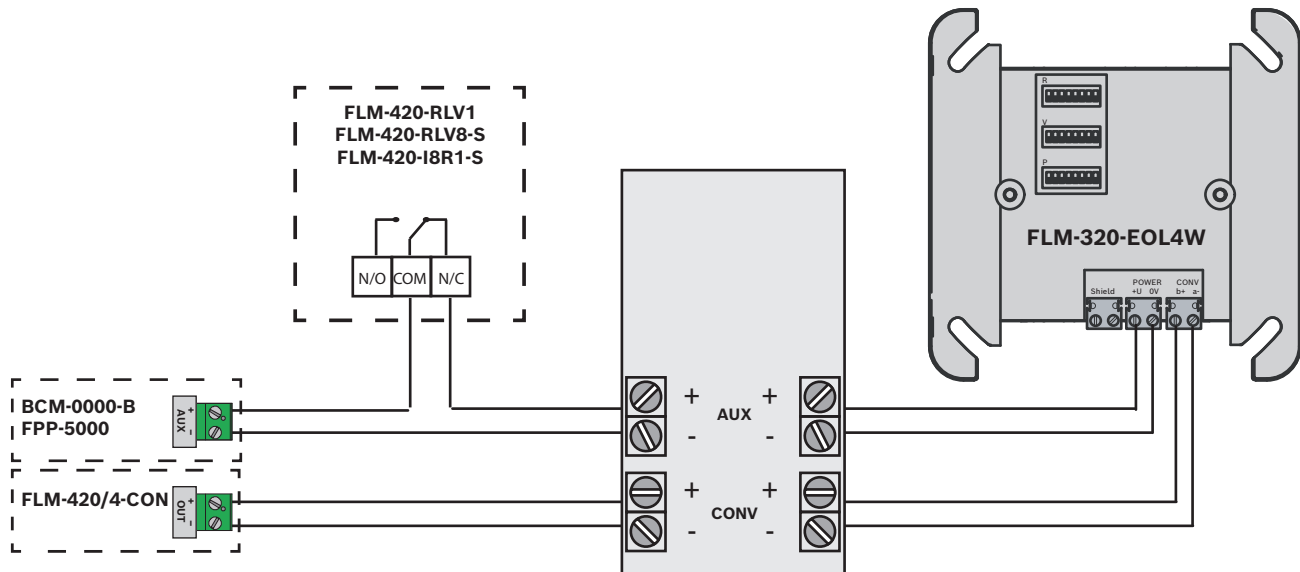
ELS

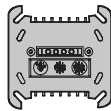
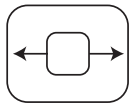




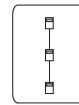
Reset action

ELS

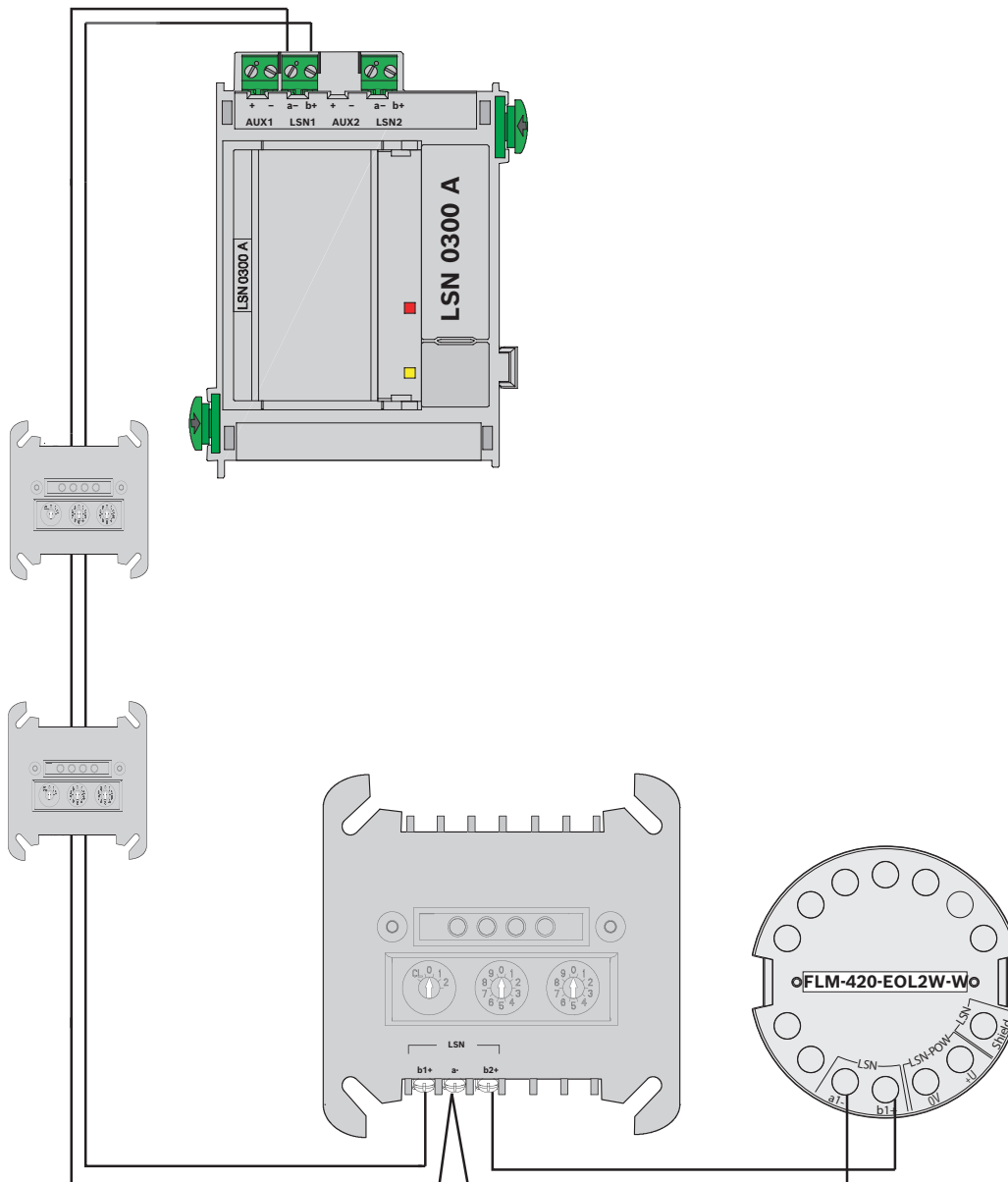


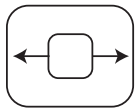


FLM-420-I2-D
 FLM-420-O1I1-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

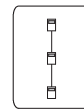


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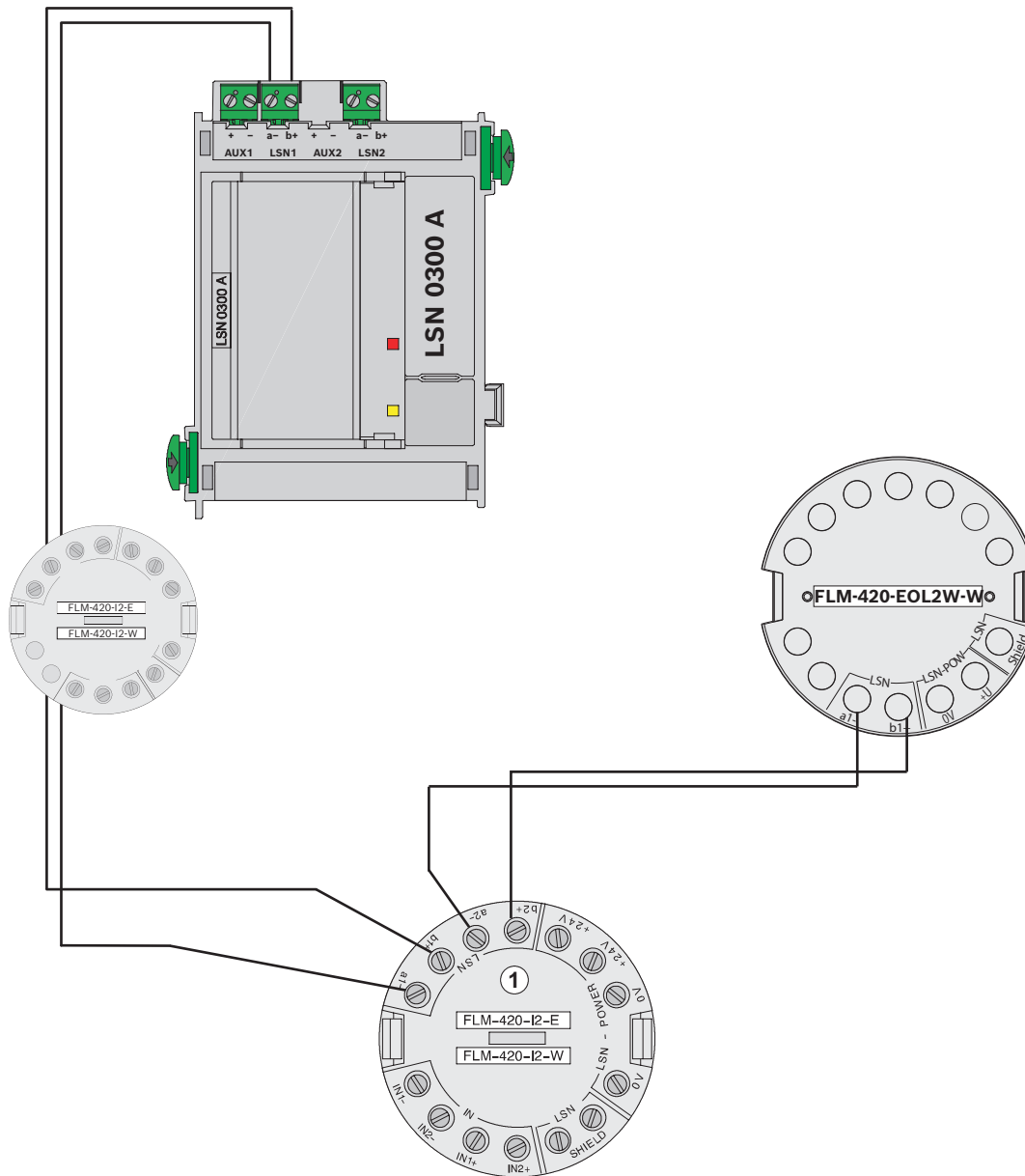


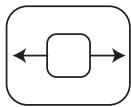


FLM-420-12-E/W

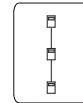


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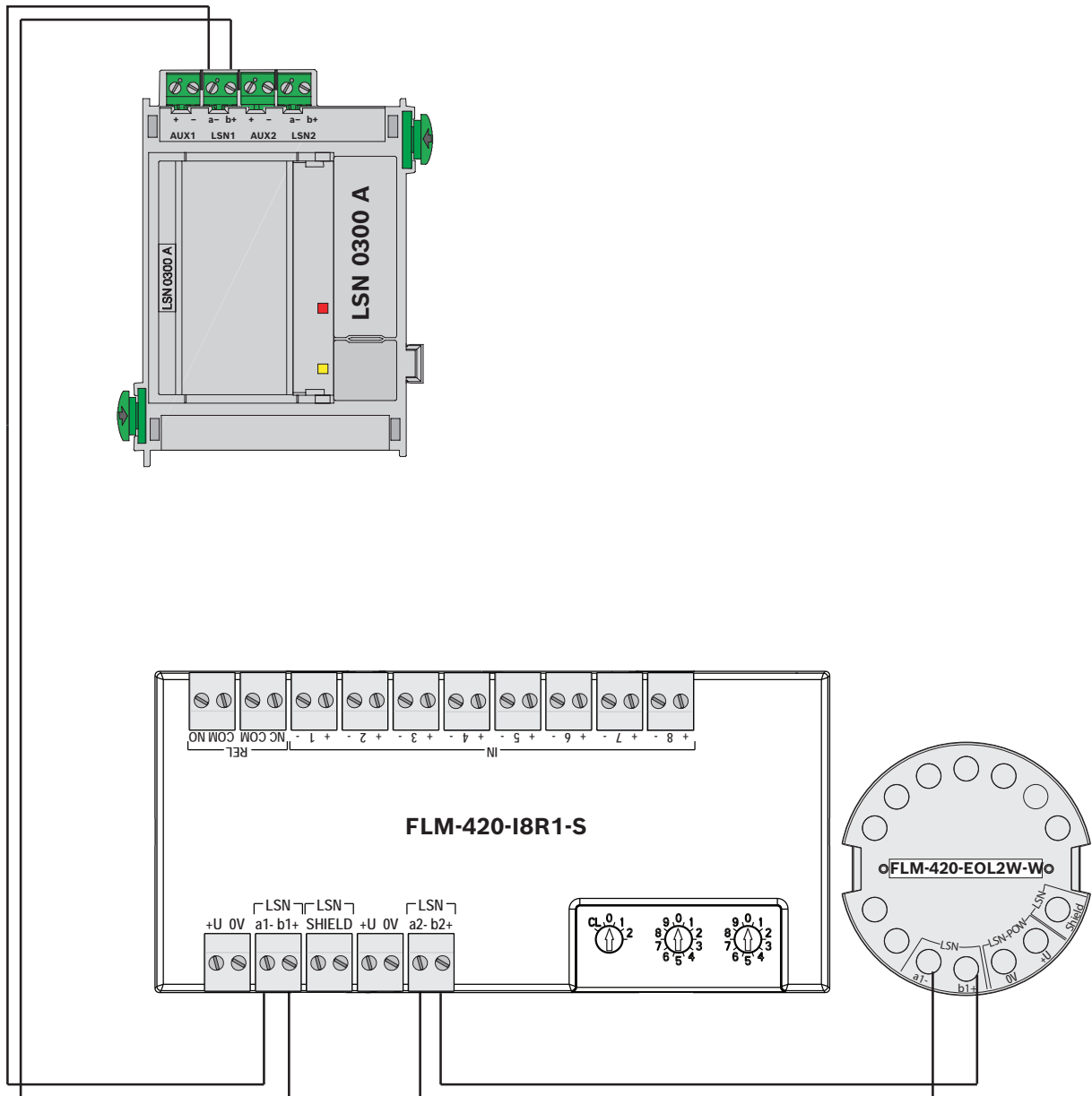


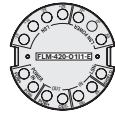
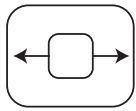


FLM-420-18R1-S

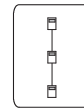


ELS

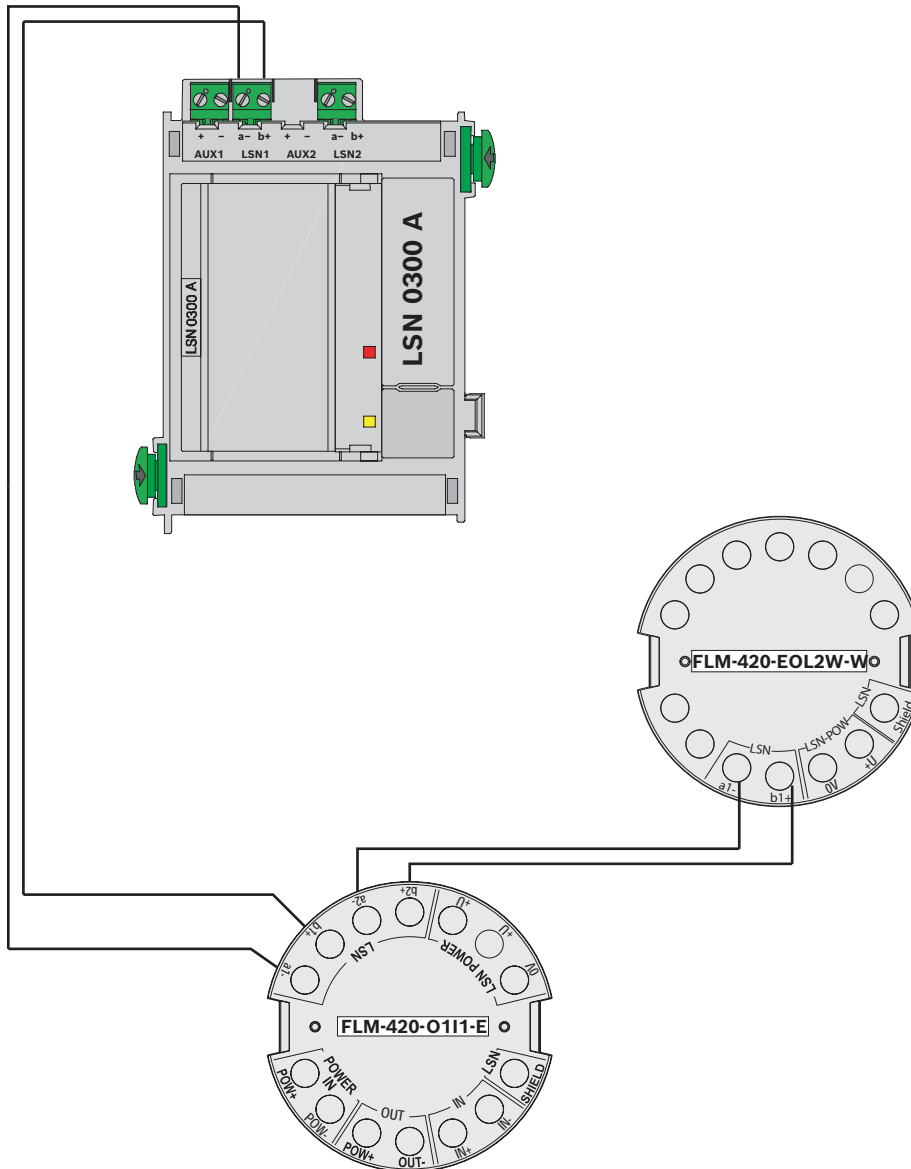


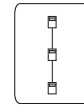
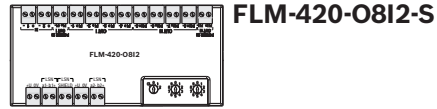
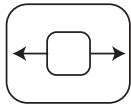


FLM-420-O1I1-E

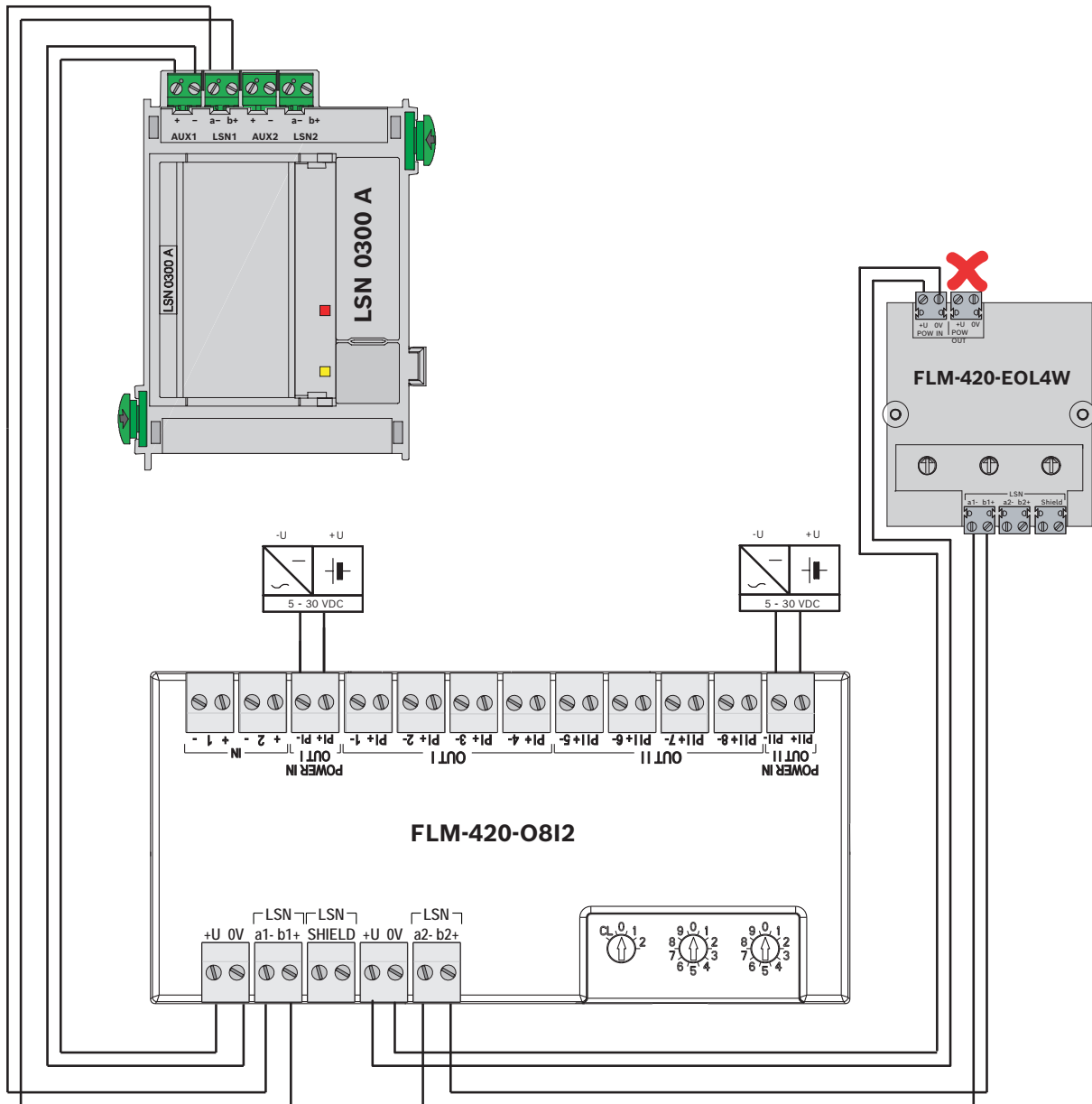


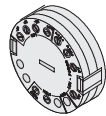
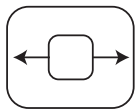
ELS



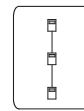


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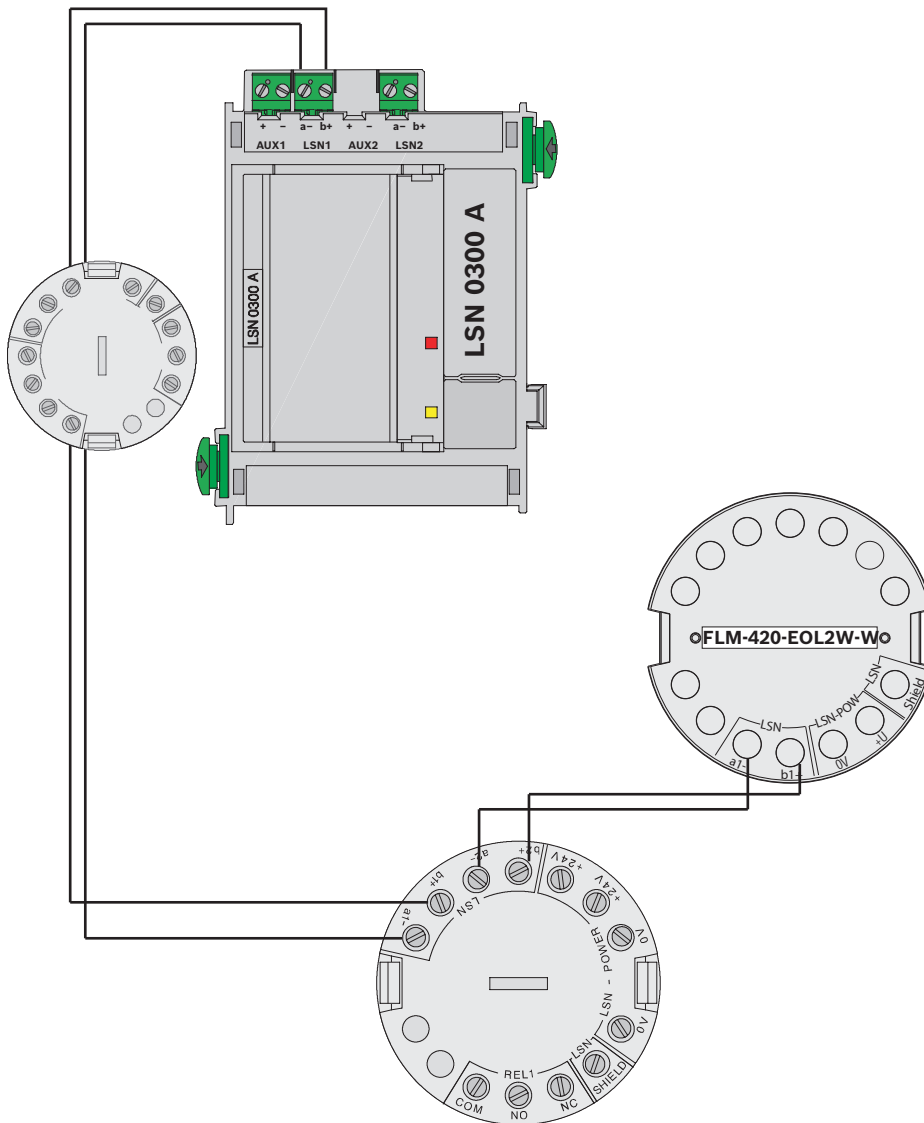


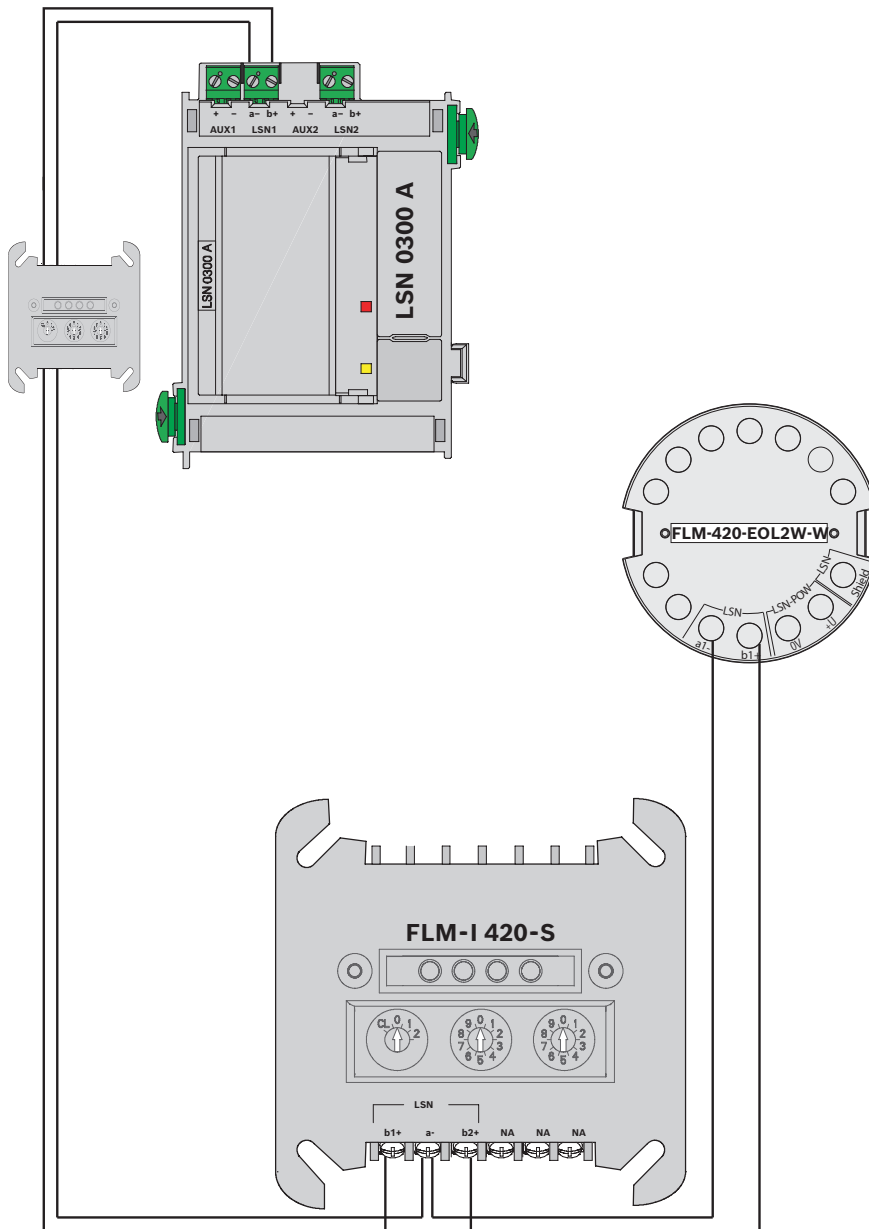
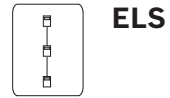
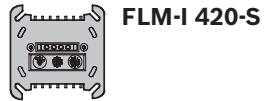
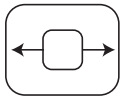


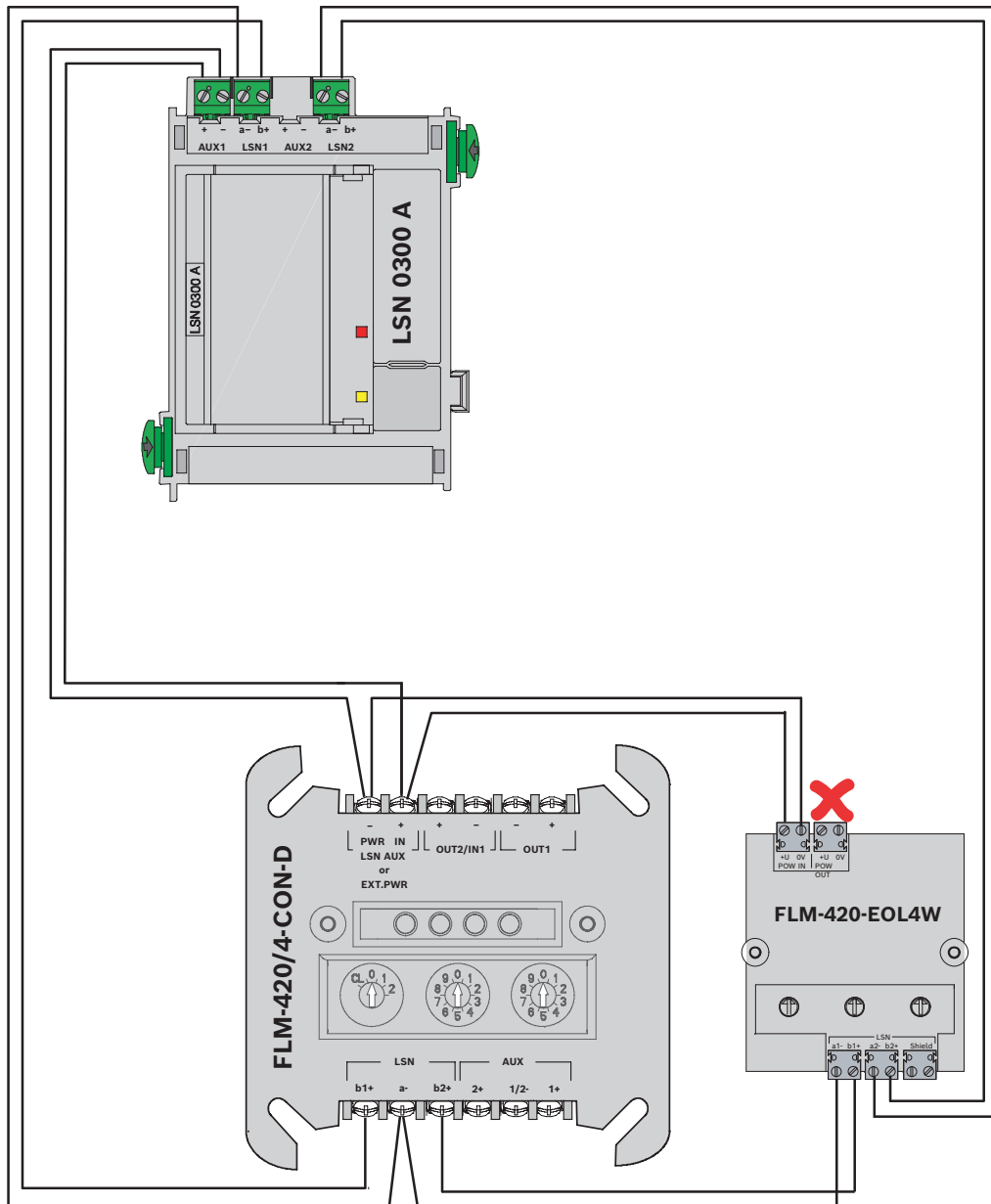
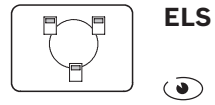
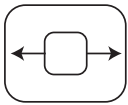
FLM-420-I2-E/-W
FLM-420-RLV1-E

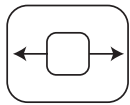


ELS

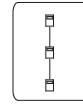




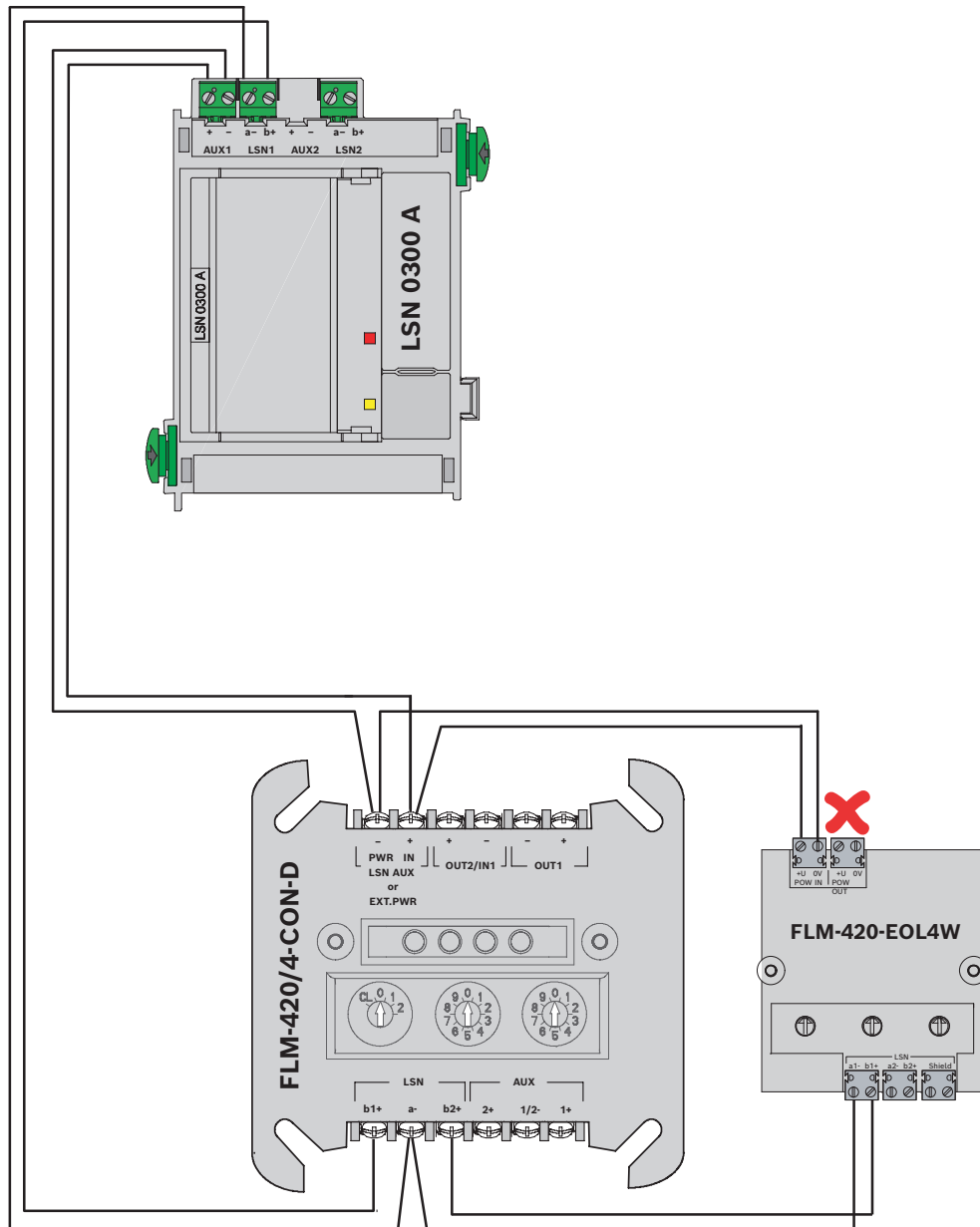


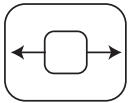


**FLM-420/
4-CON-D**

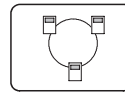


ELS

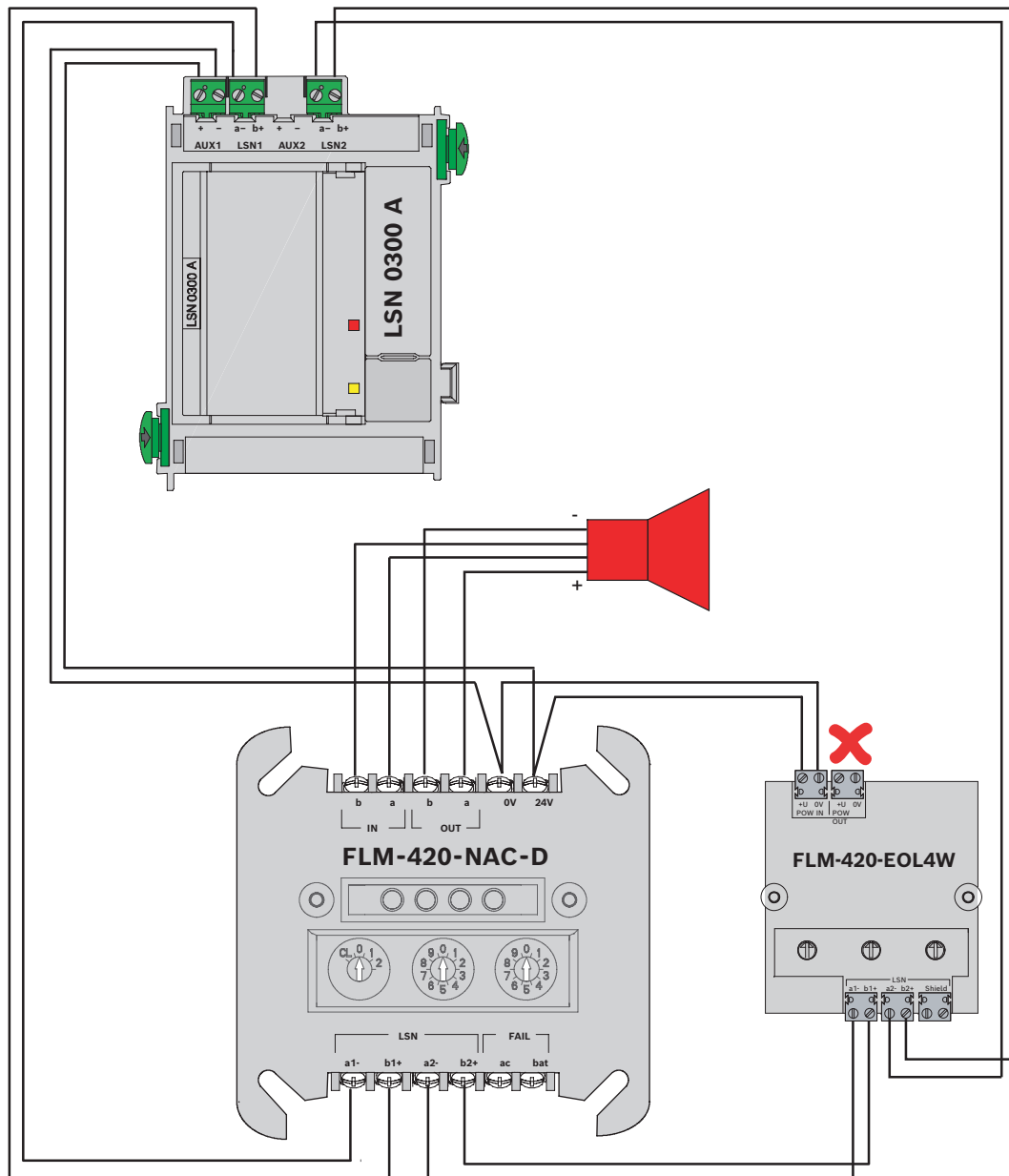


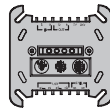
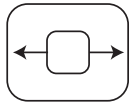


FLM-420-NAC-D/S

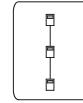


ELS
EN 54-2

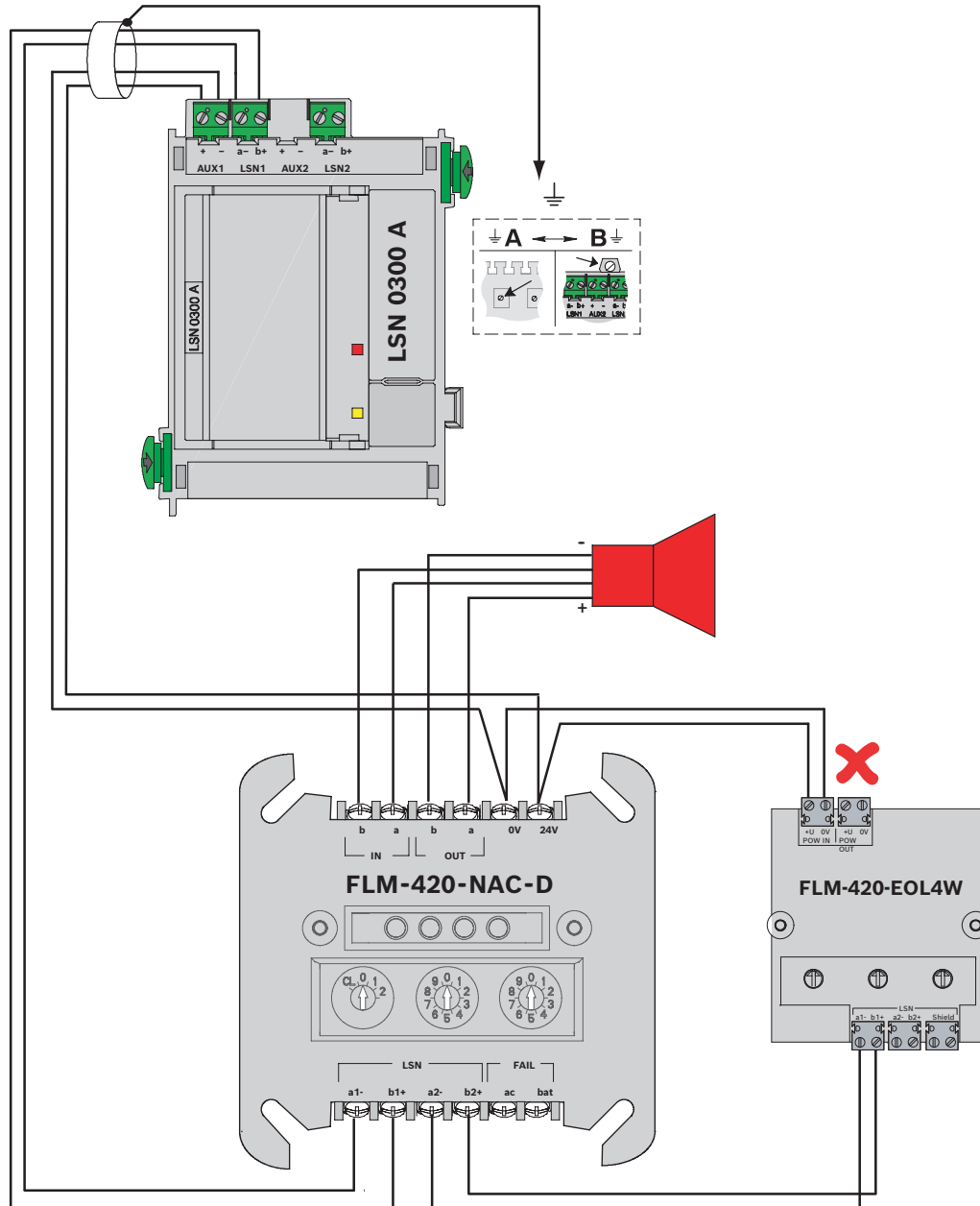


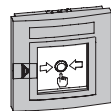
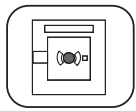


FLM-420-NAC-D/S

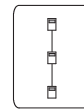


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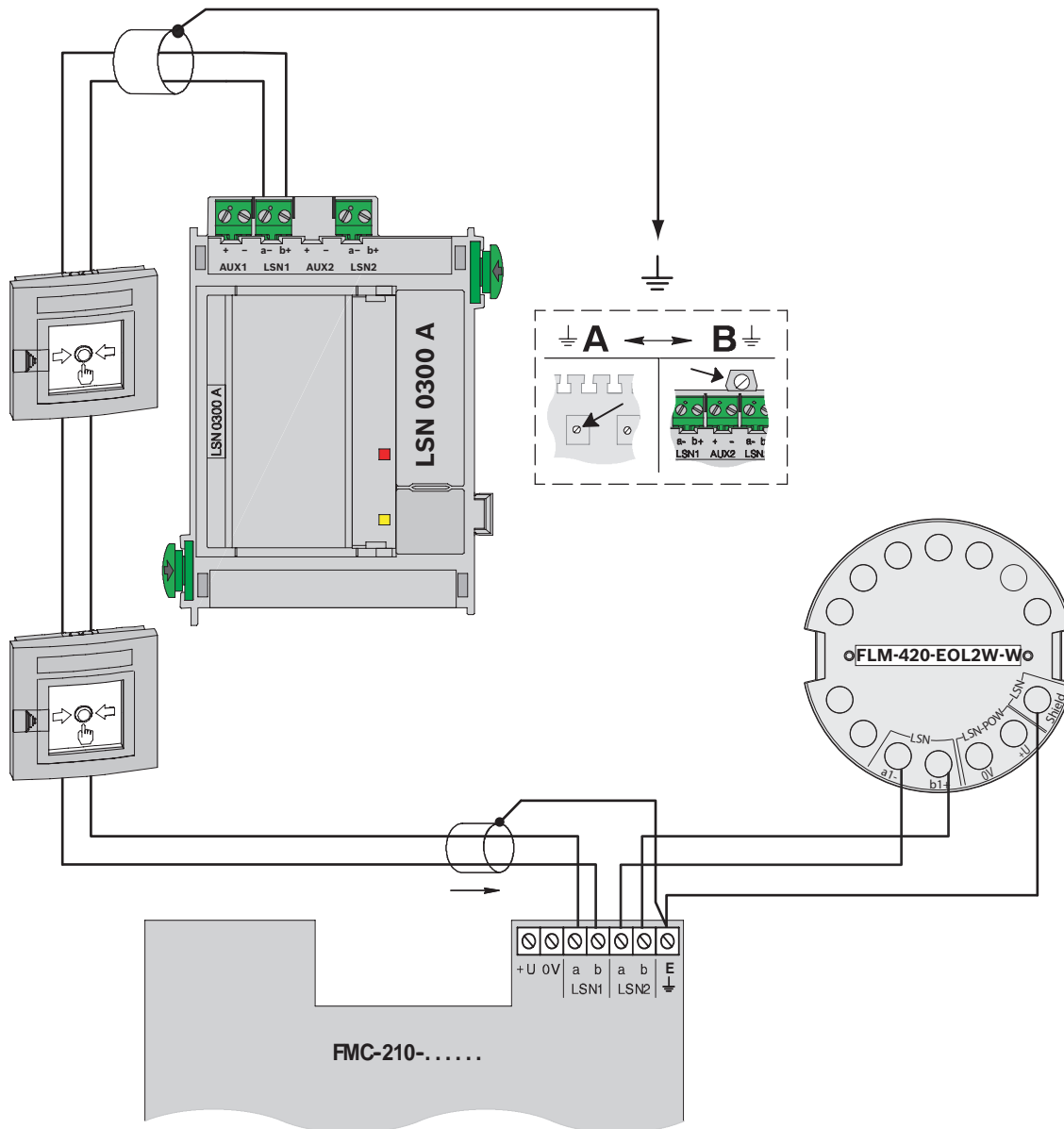


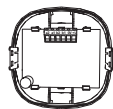


FMC-210...

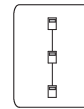


ELS

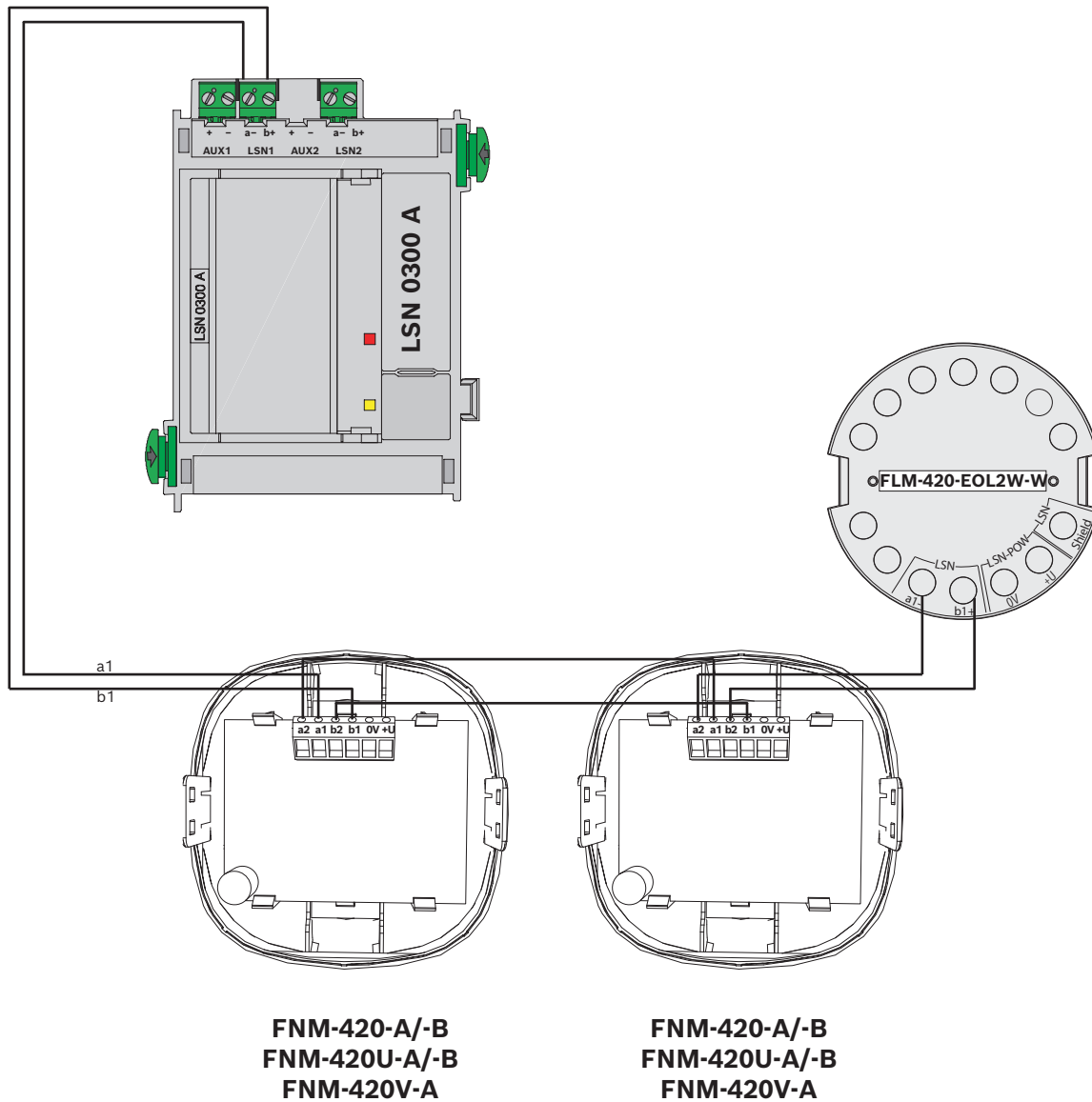




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS

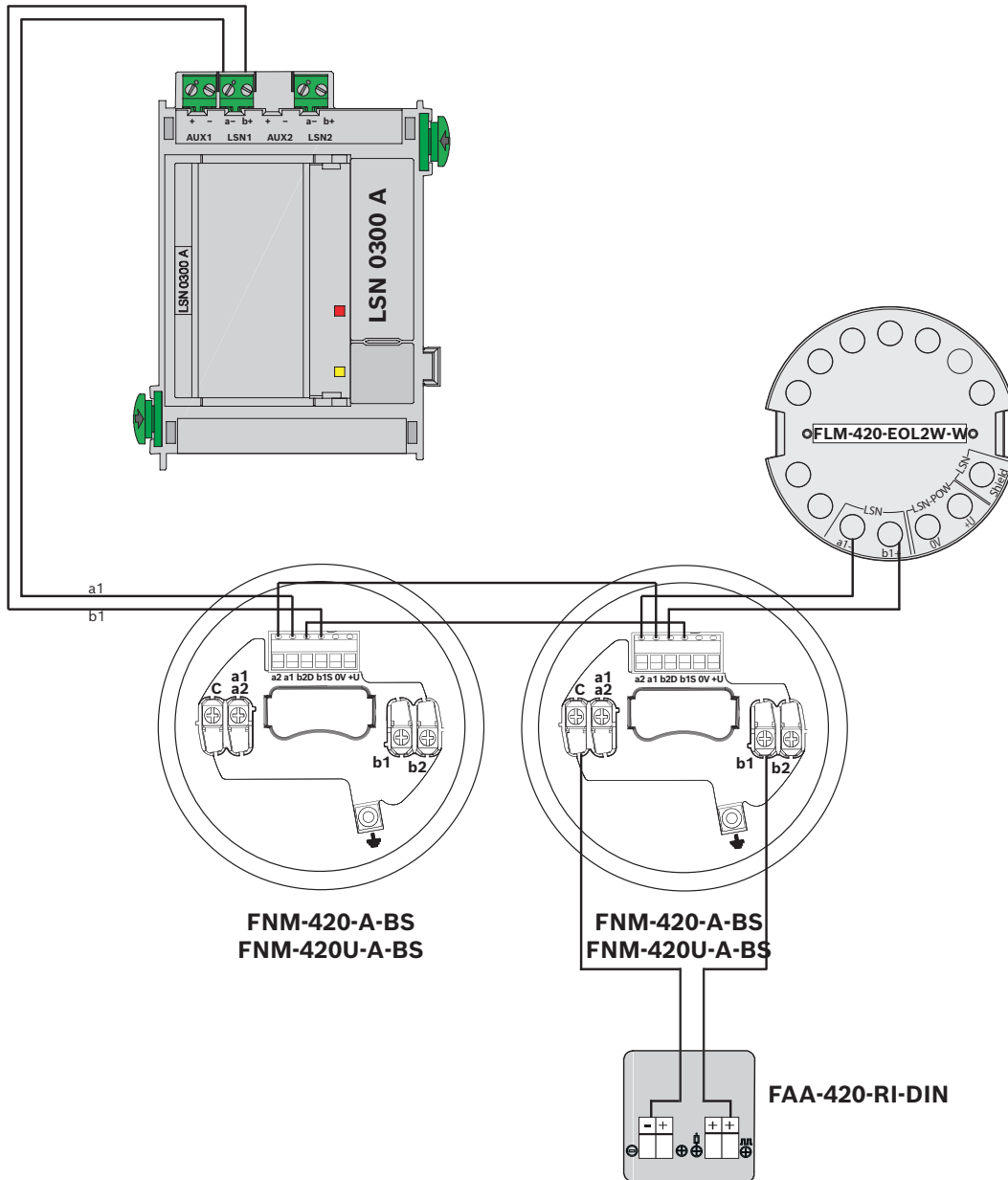




FNM-420-A-BS
FNM-420U-A-BS



ELS

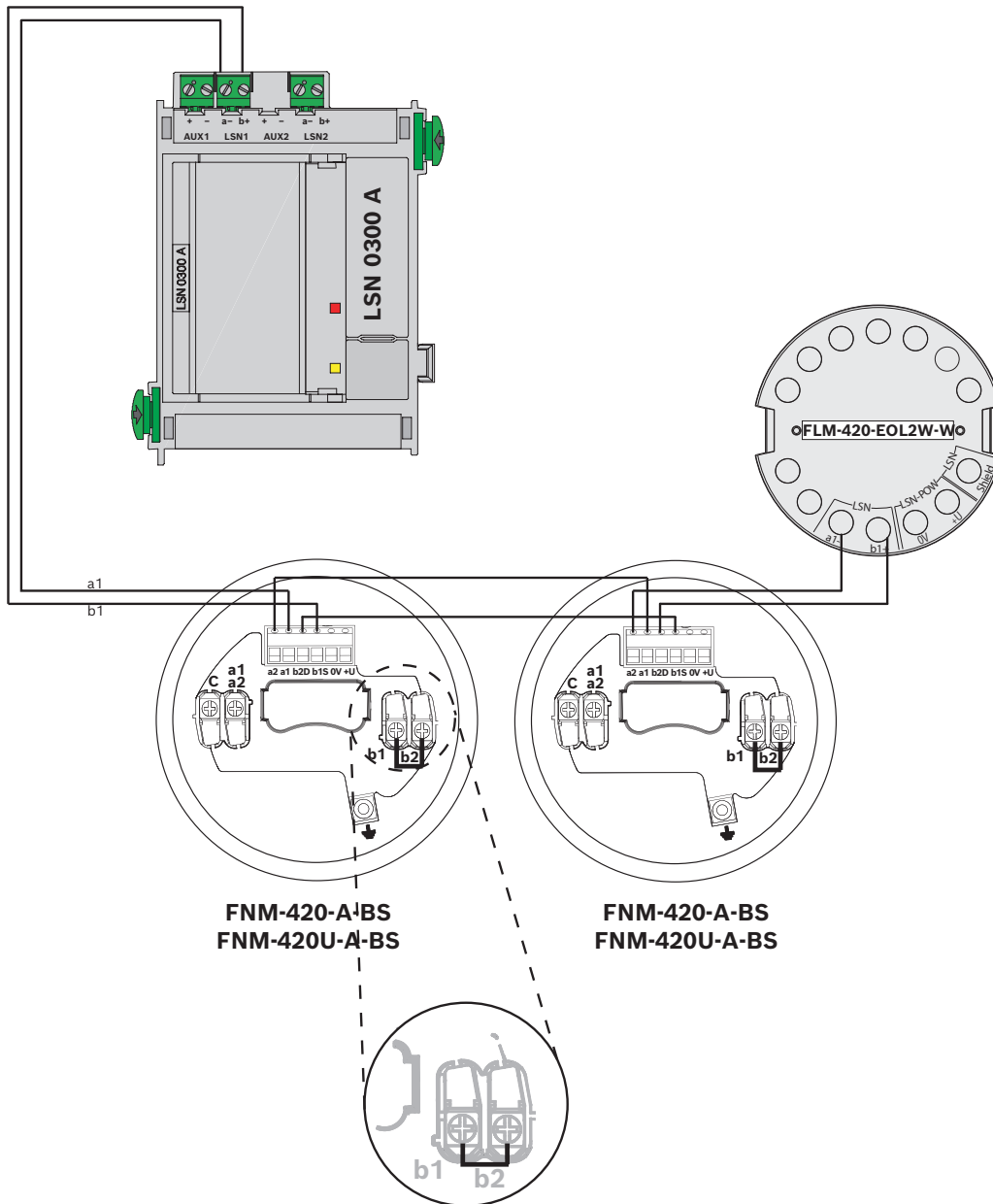


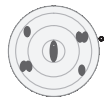


FNM-420-A-BS
FNM-420U-A-BS



ELS

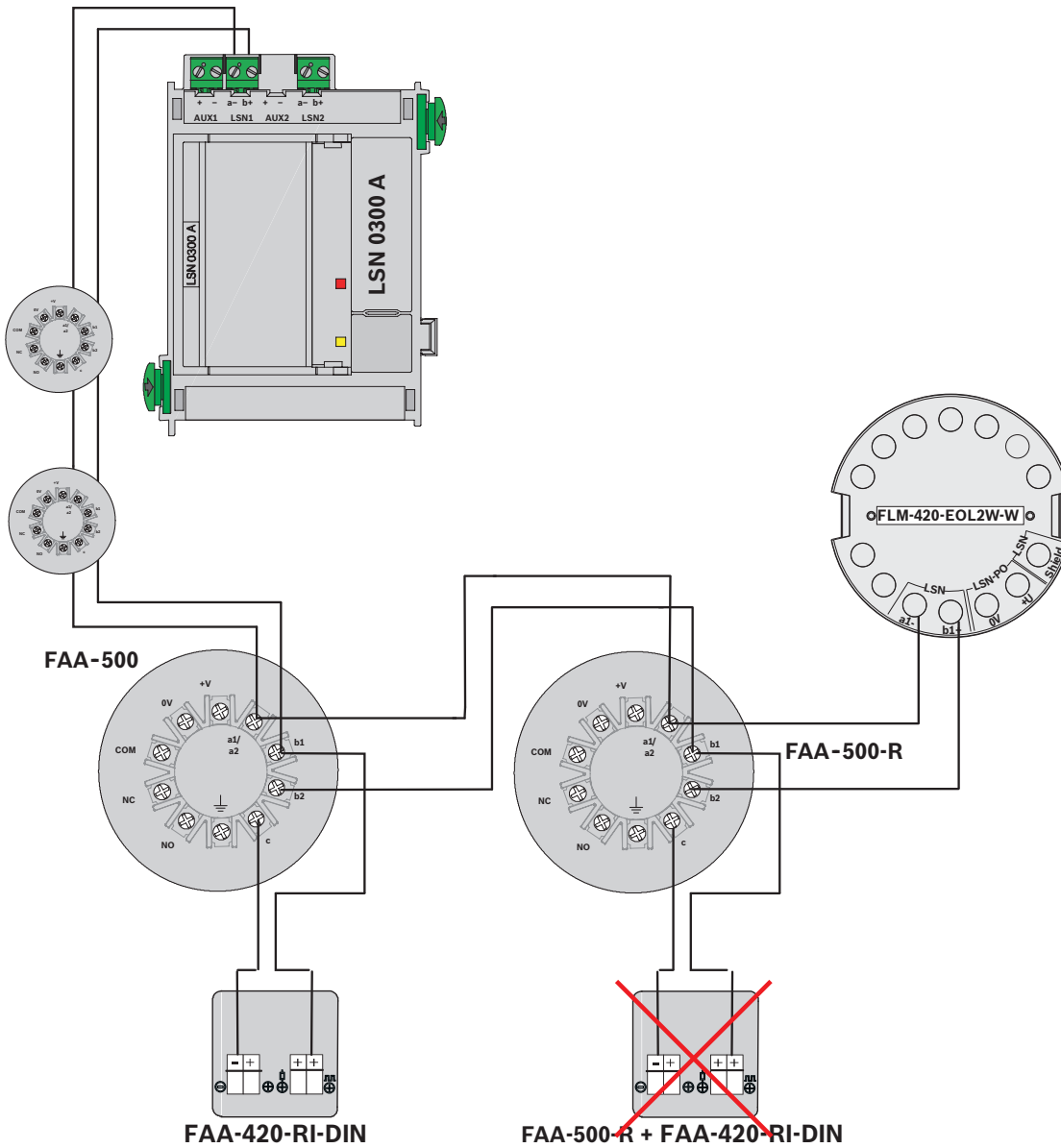


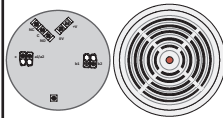


FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

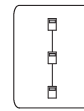


ELS

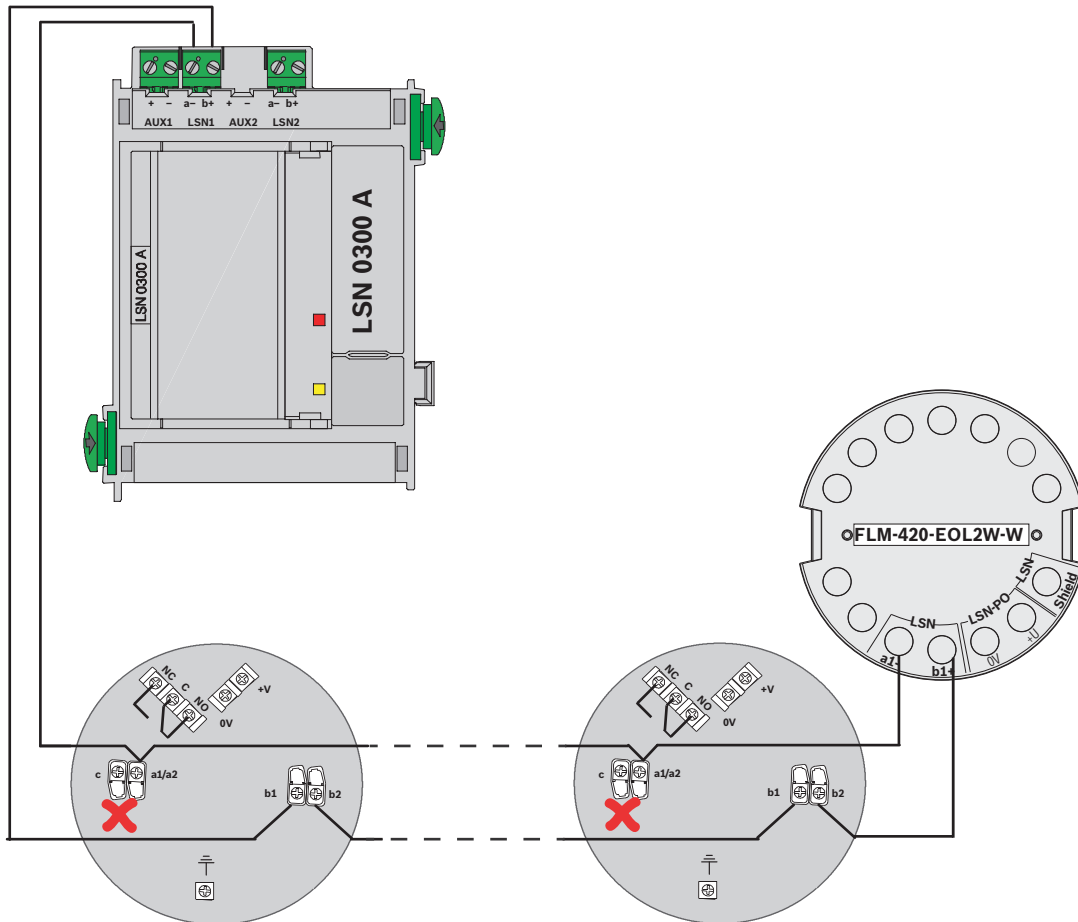


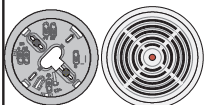


FAA-MSR-420
FAP-425-O, FAP-425-O-R
FAP-425-OT, FAP-425-OT-R
FAP-425-T-R
FAP-425-DO-R, FAP-425-DOT-R
FAP-425-DOTC-R, FAP-425-DOTCO-R



ELS

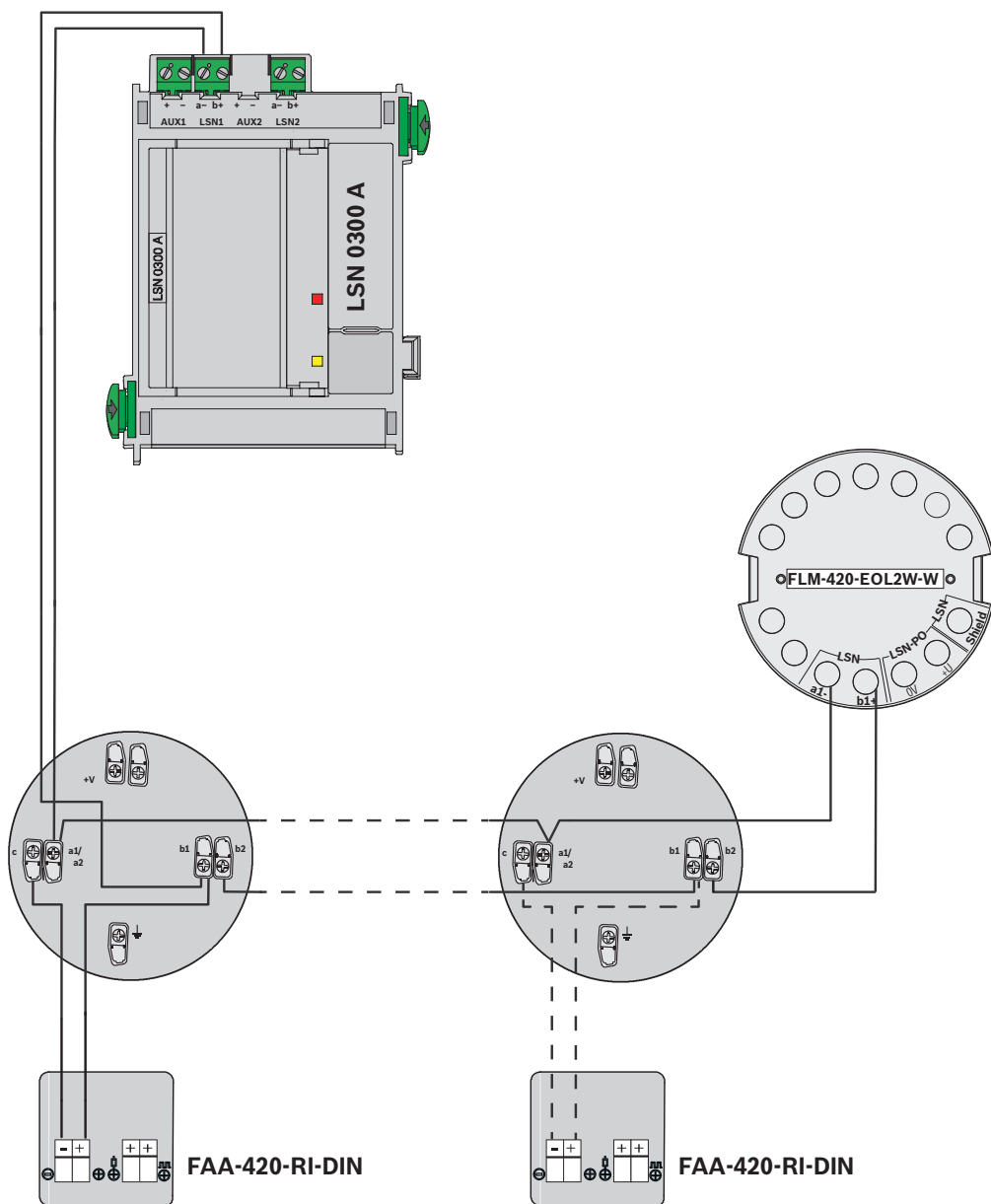


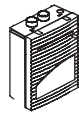


MS 400, MS 400 B
 FAP-425-O, FAP-425-O-R
 FAP-425-OT, FAP-425-OT-R
 FAP-425-T-R
 FAP-425-DO-R, FAP-425-DOT-R
 FAP-425-DOTC-R, FAP-425-DOTCO-R

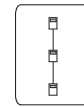


ELS

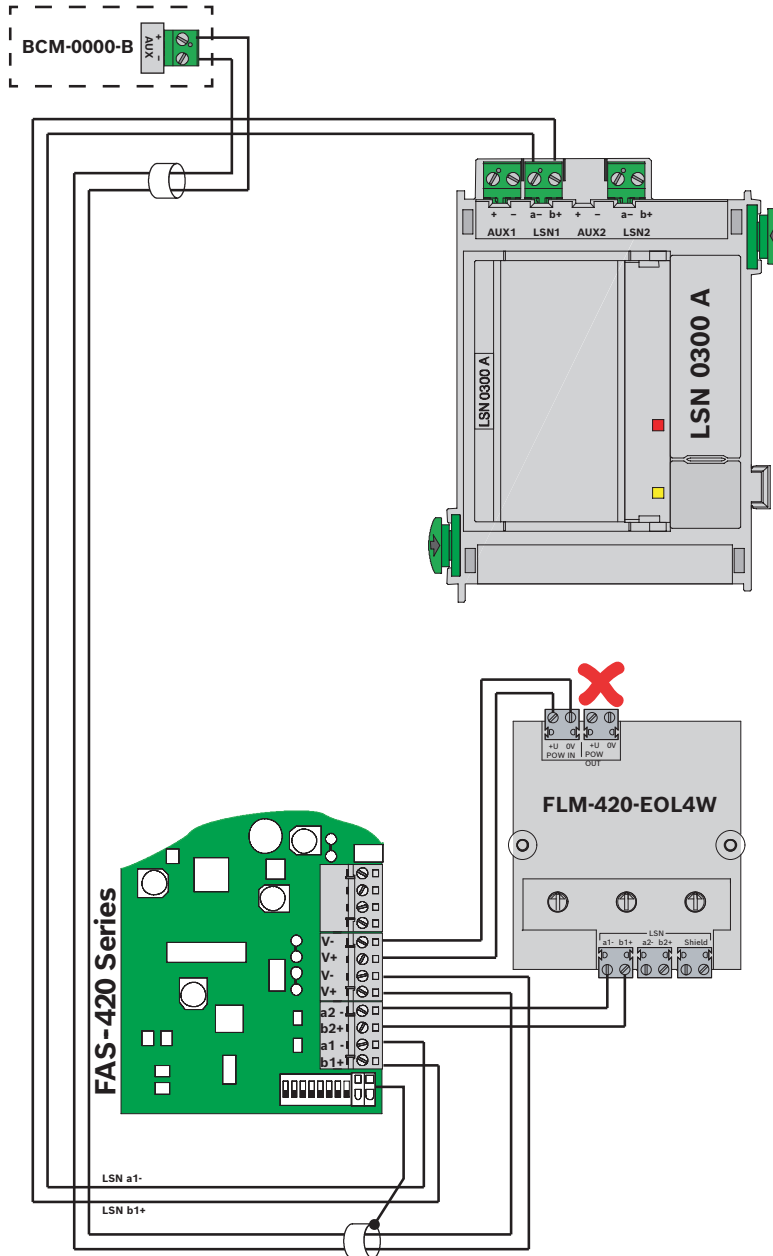


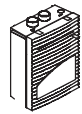


FAS-420 Series

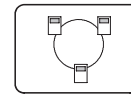


ELS

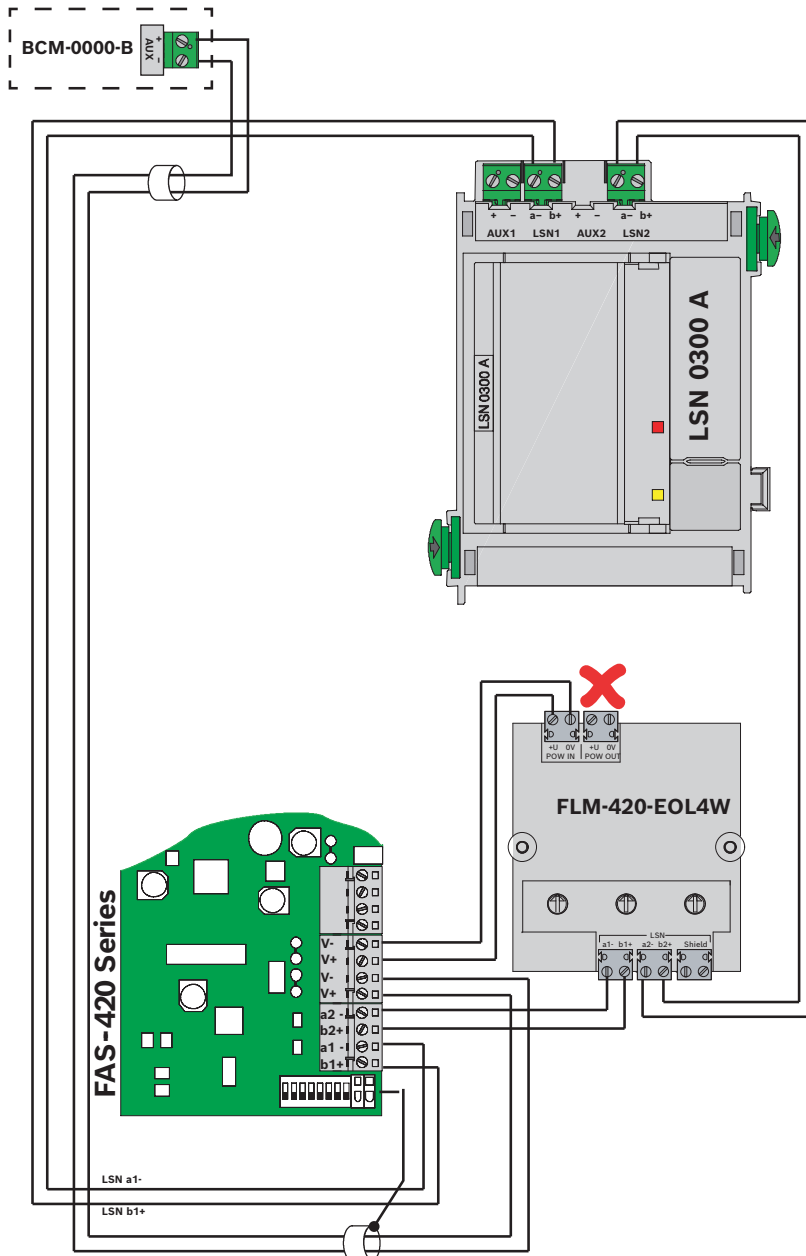


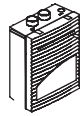


FAS-420 Series

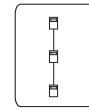


ELS

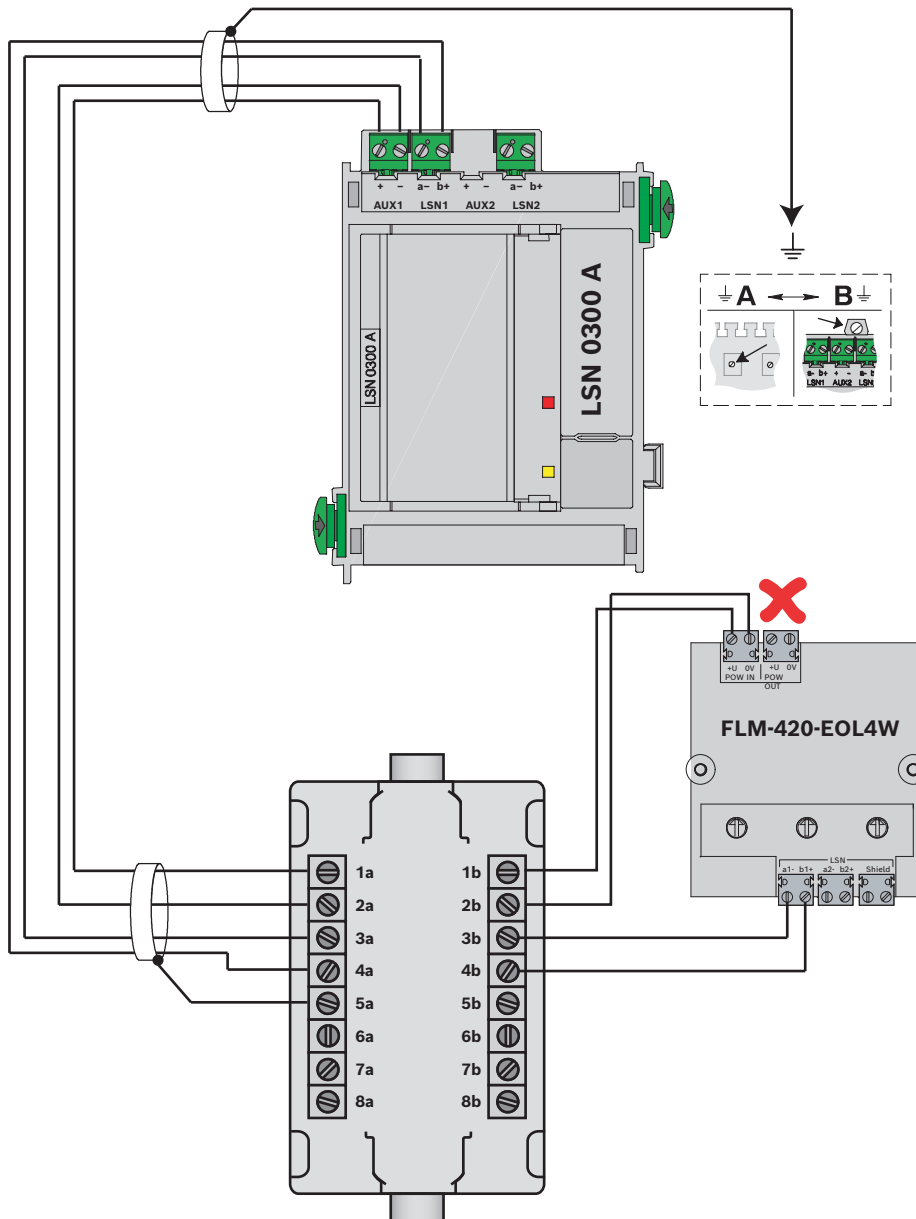


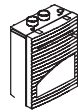


FAS-420-TM Series

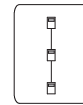


ELS

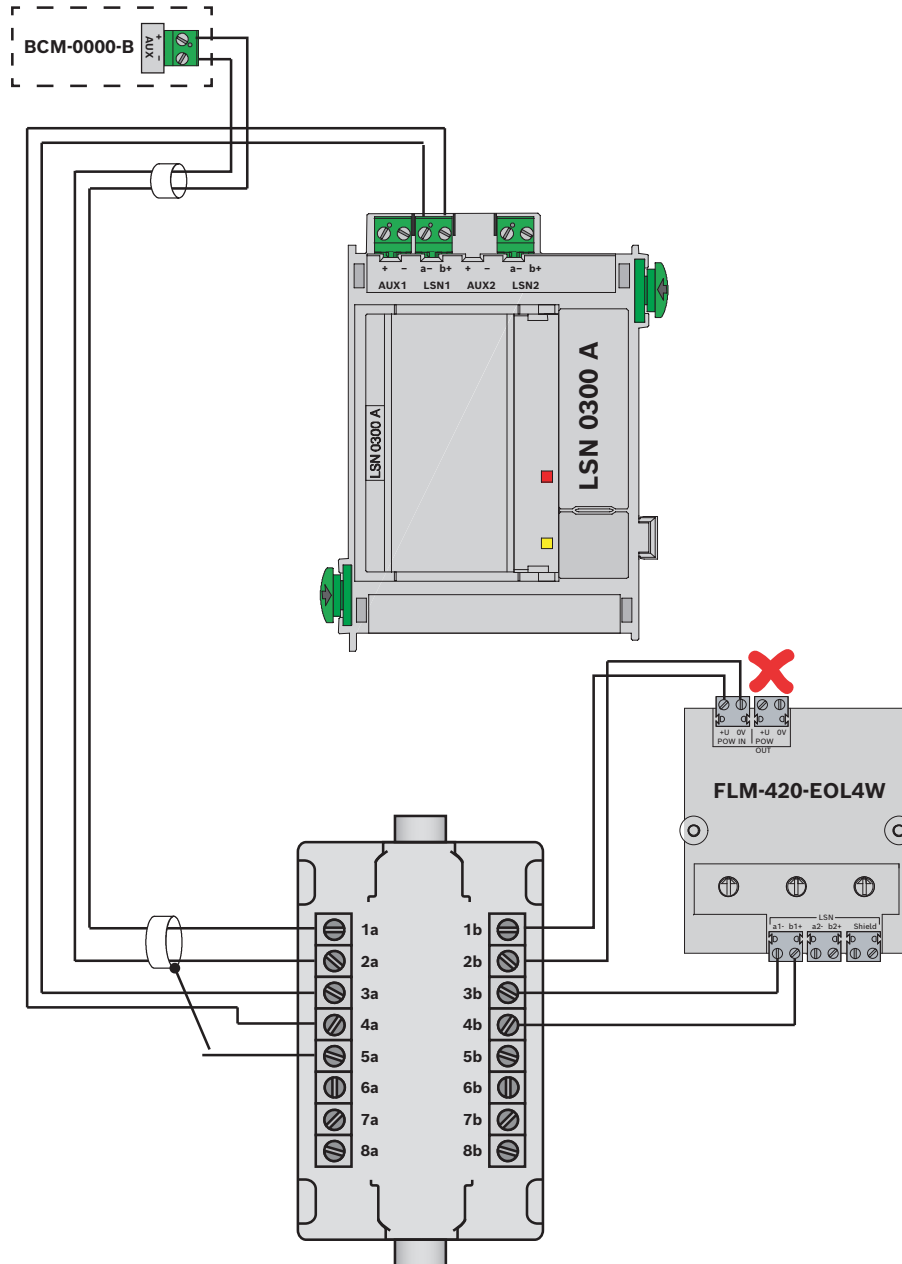


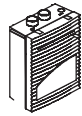


FAS-420-TM Series

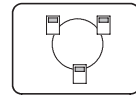


ELS

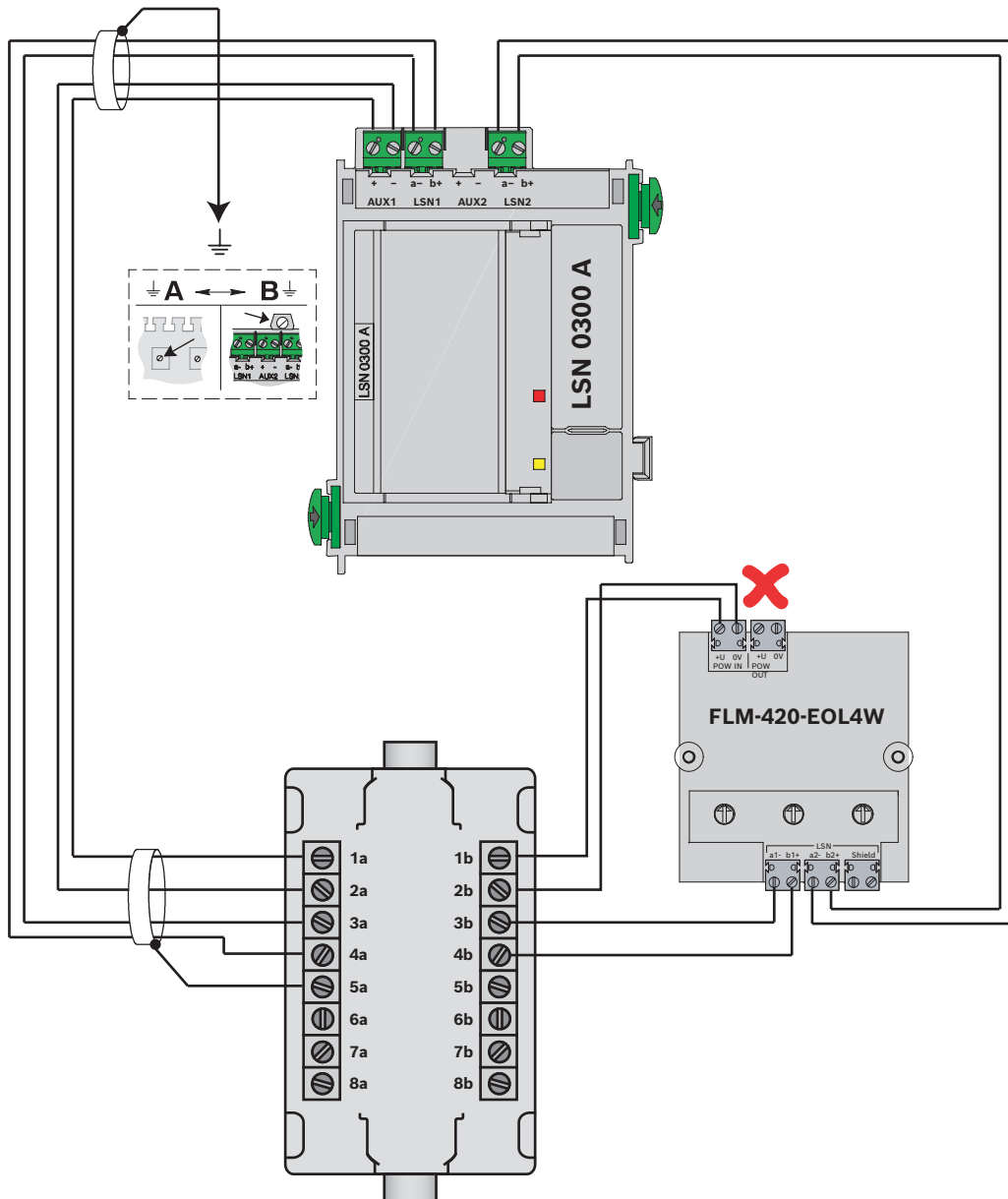


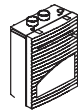


FAS-420-TM Series

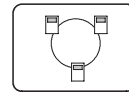


ELS

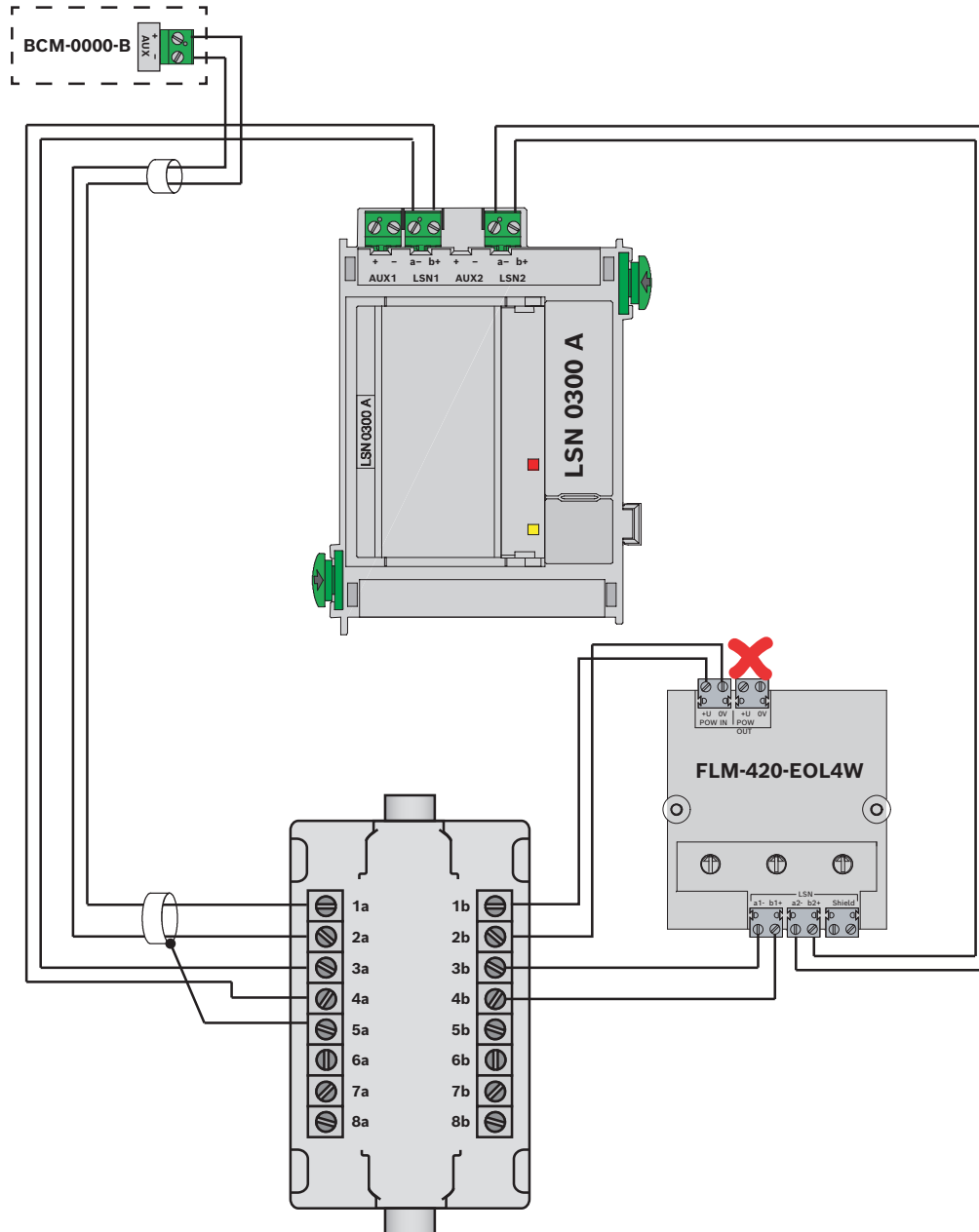


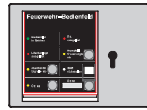


FAS-420-TM Series

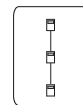


ELS

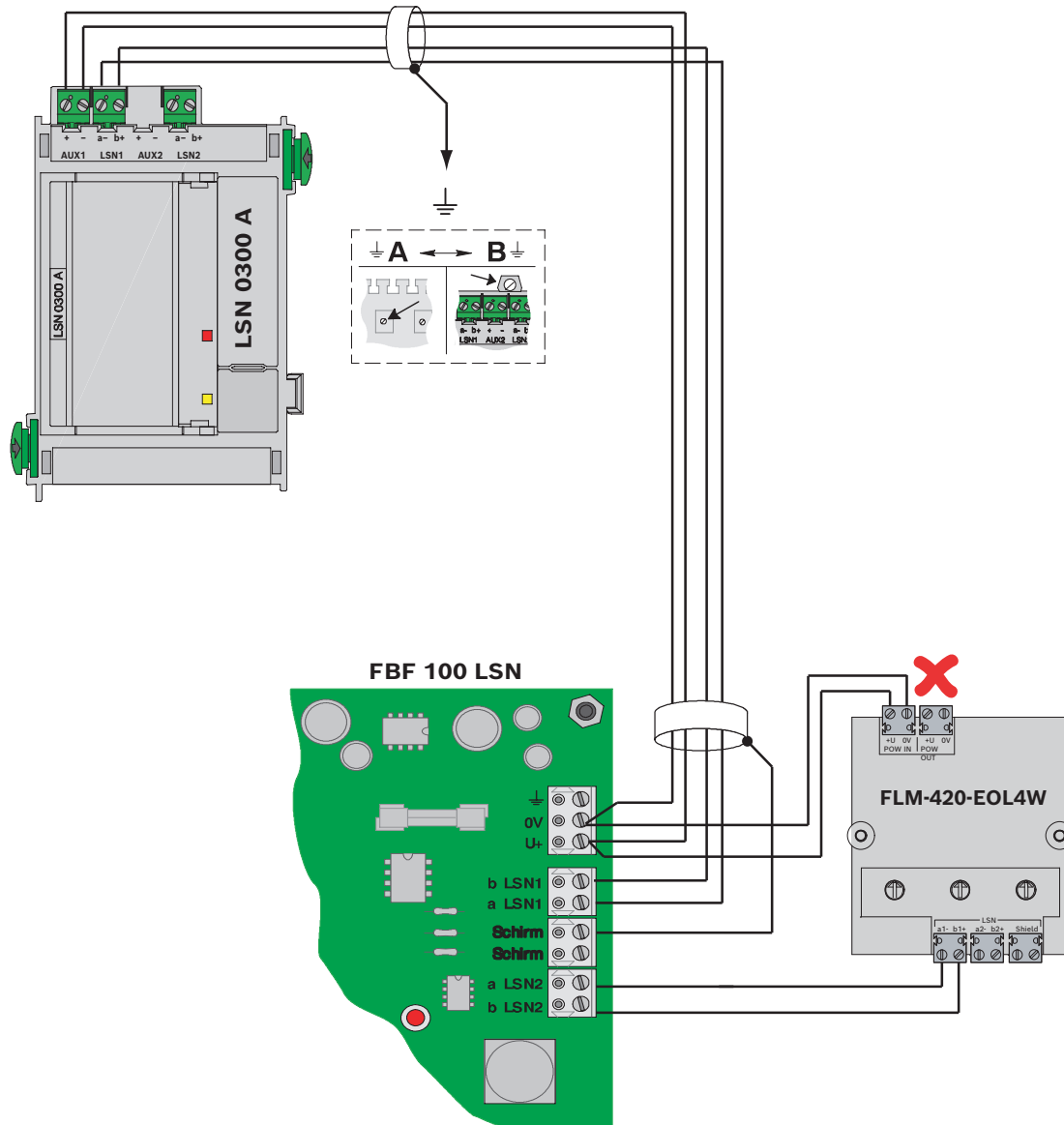




FBF 100 LSN

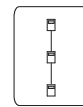


ELS

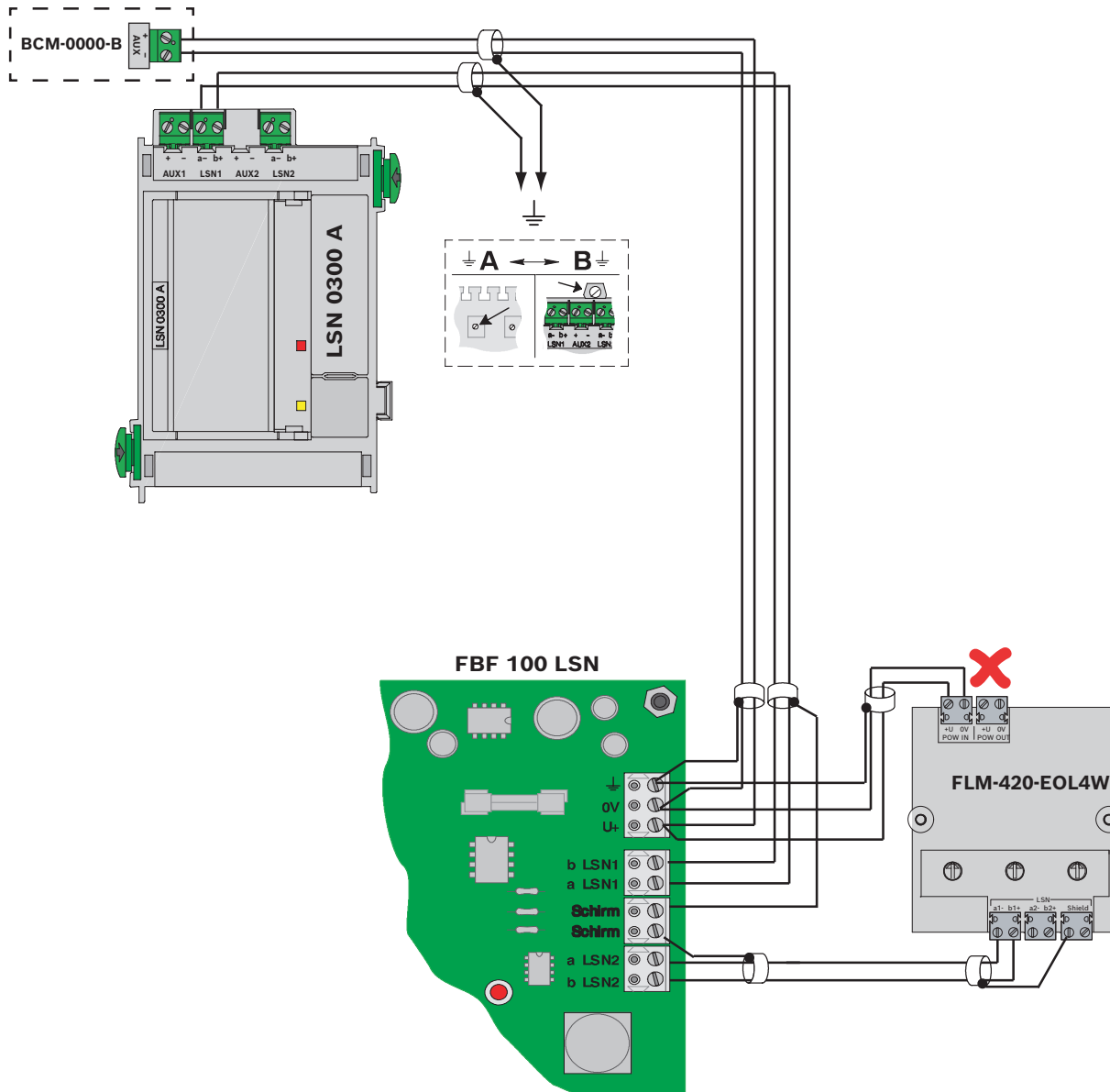




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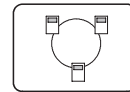


ELS

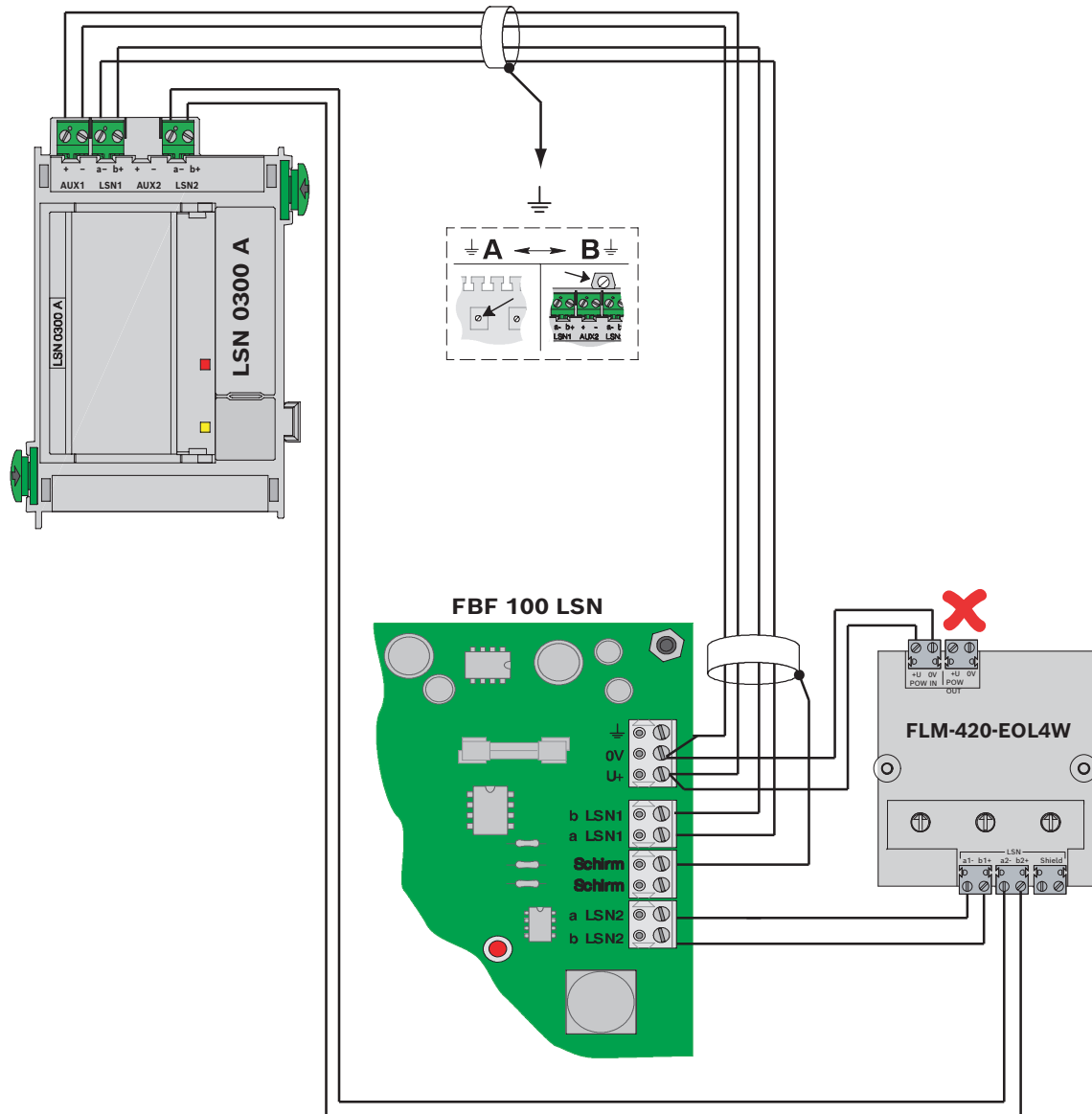




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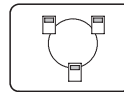


ELS

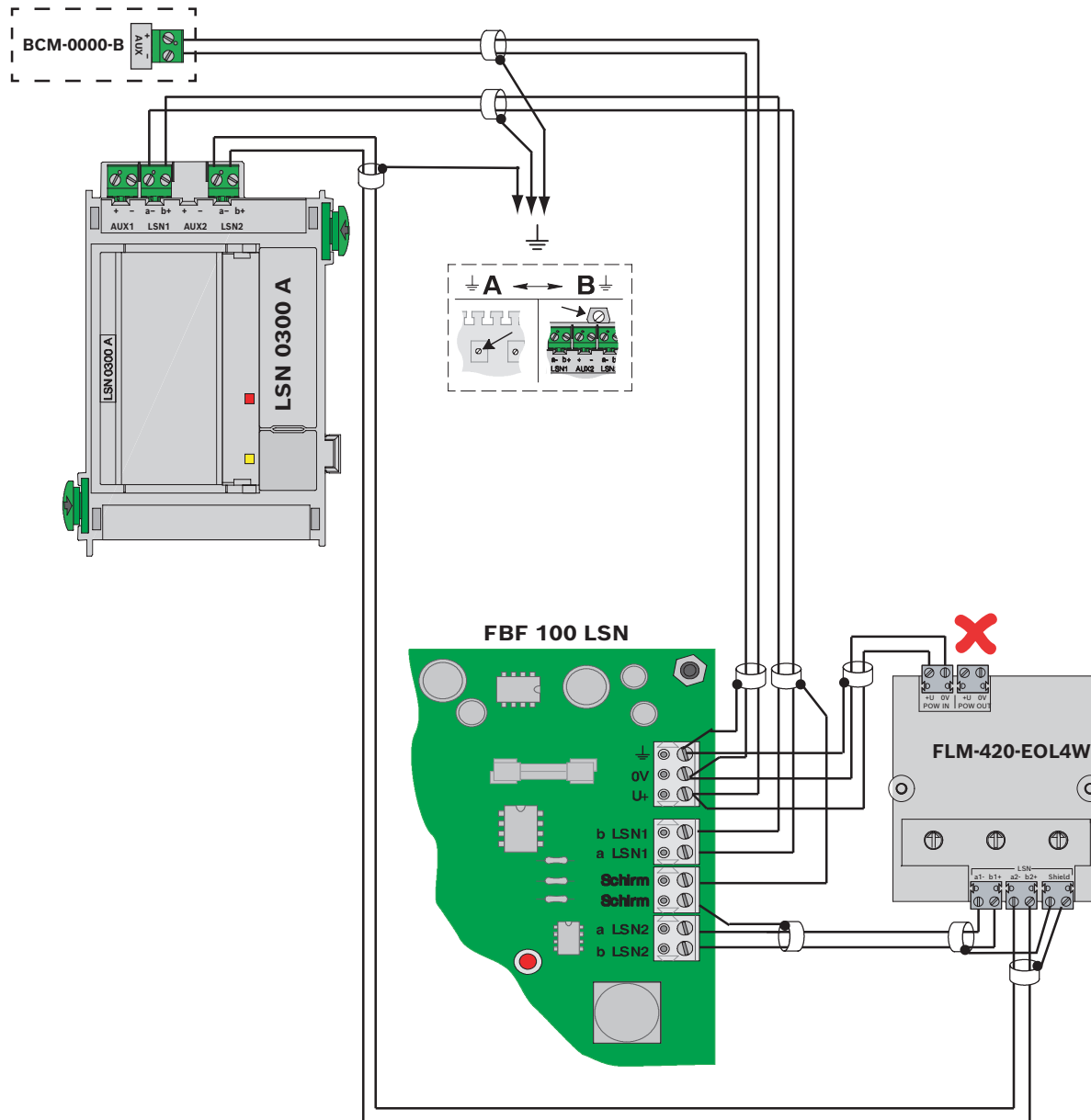


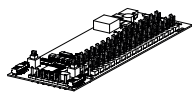


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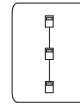


ELS

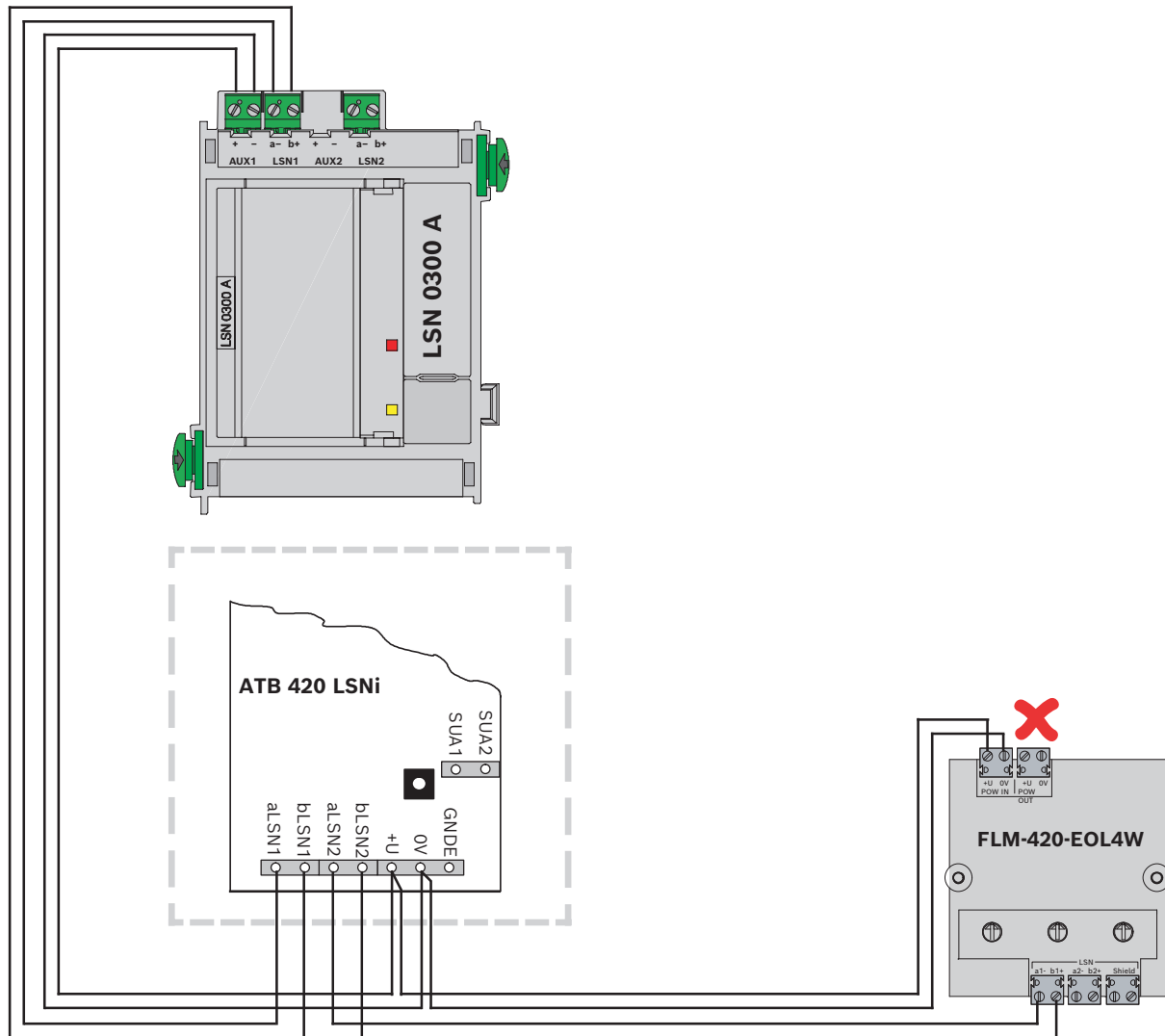


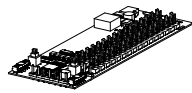


ATB 420 LSNi

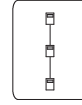


ELS

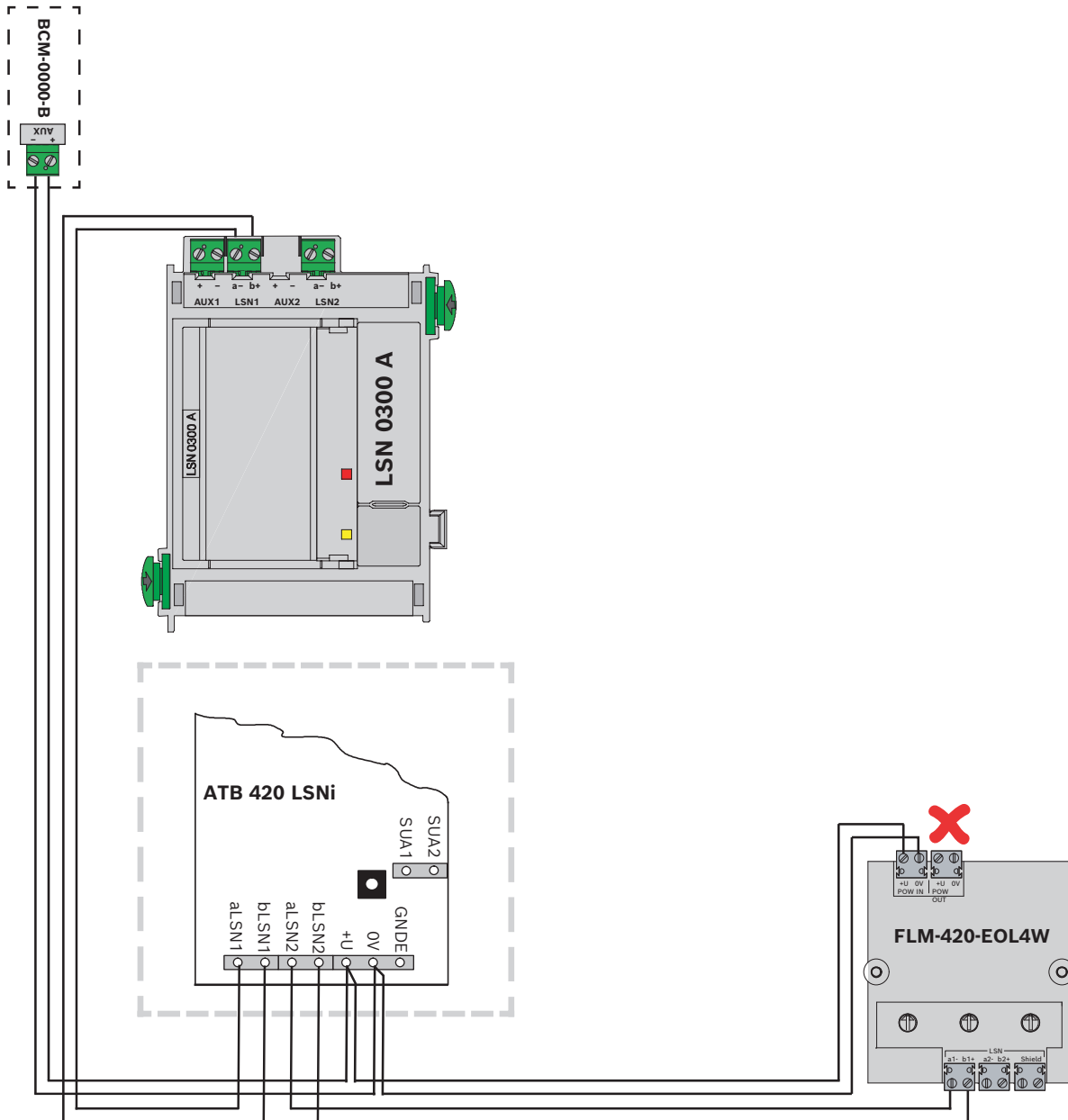


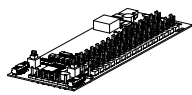


ATB 420 LSNi

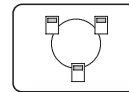


ELS

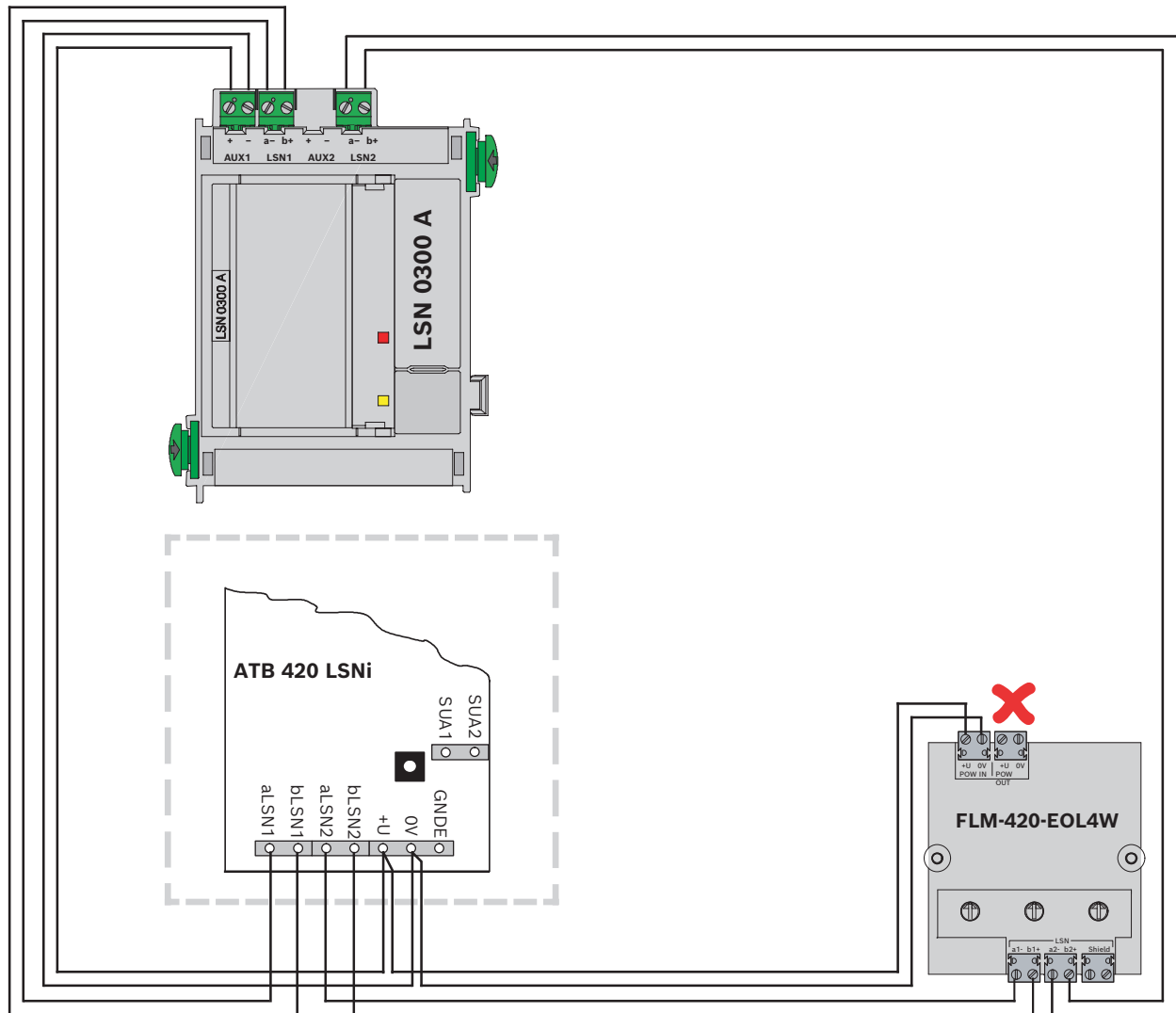


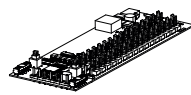


ATB 420 LSNi

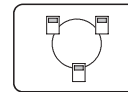


ELS

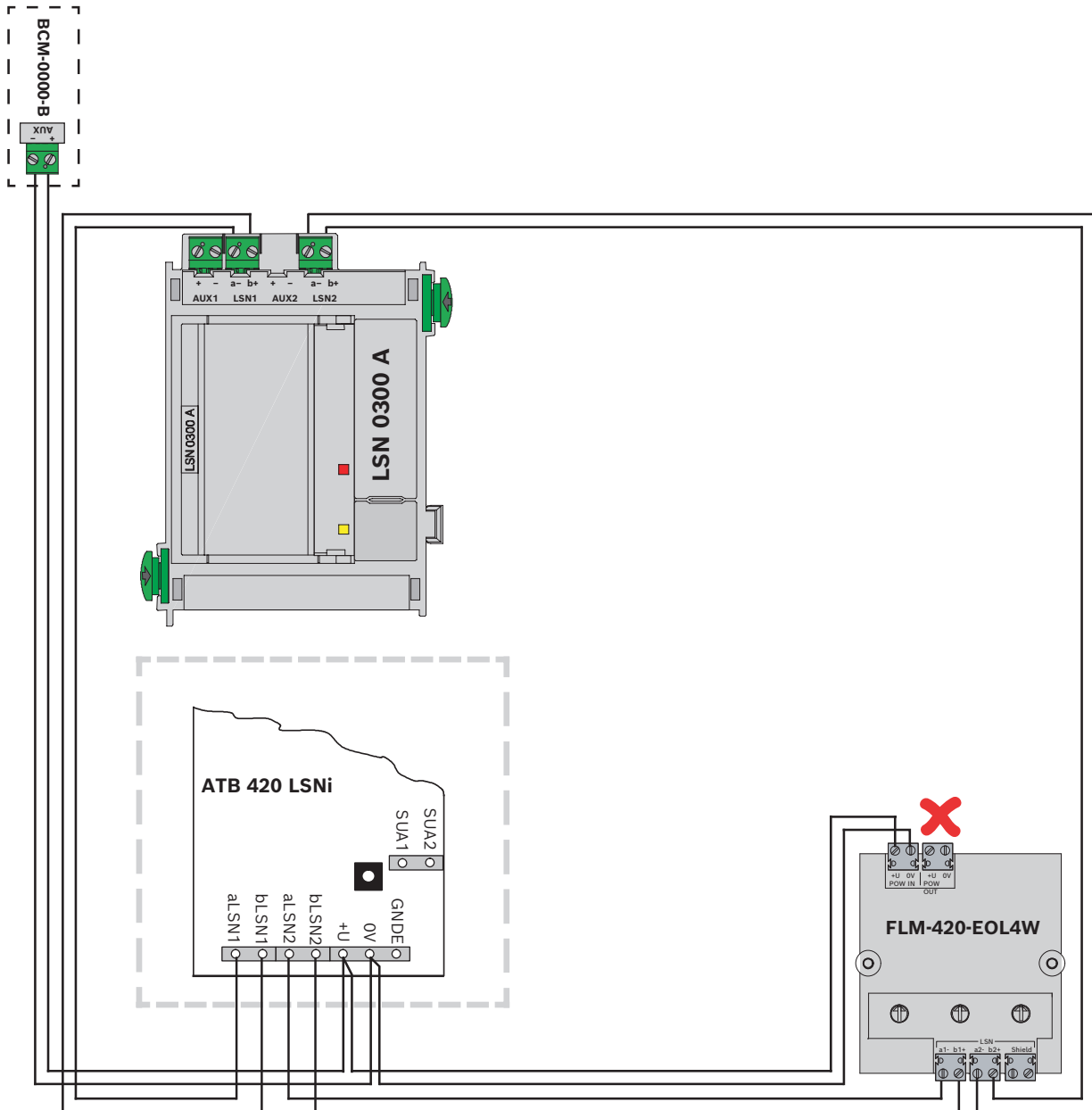




ATB 420 LSNi

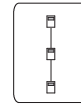


ELS

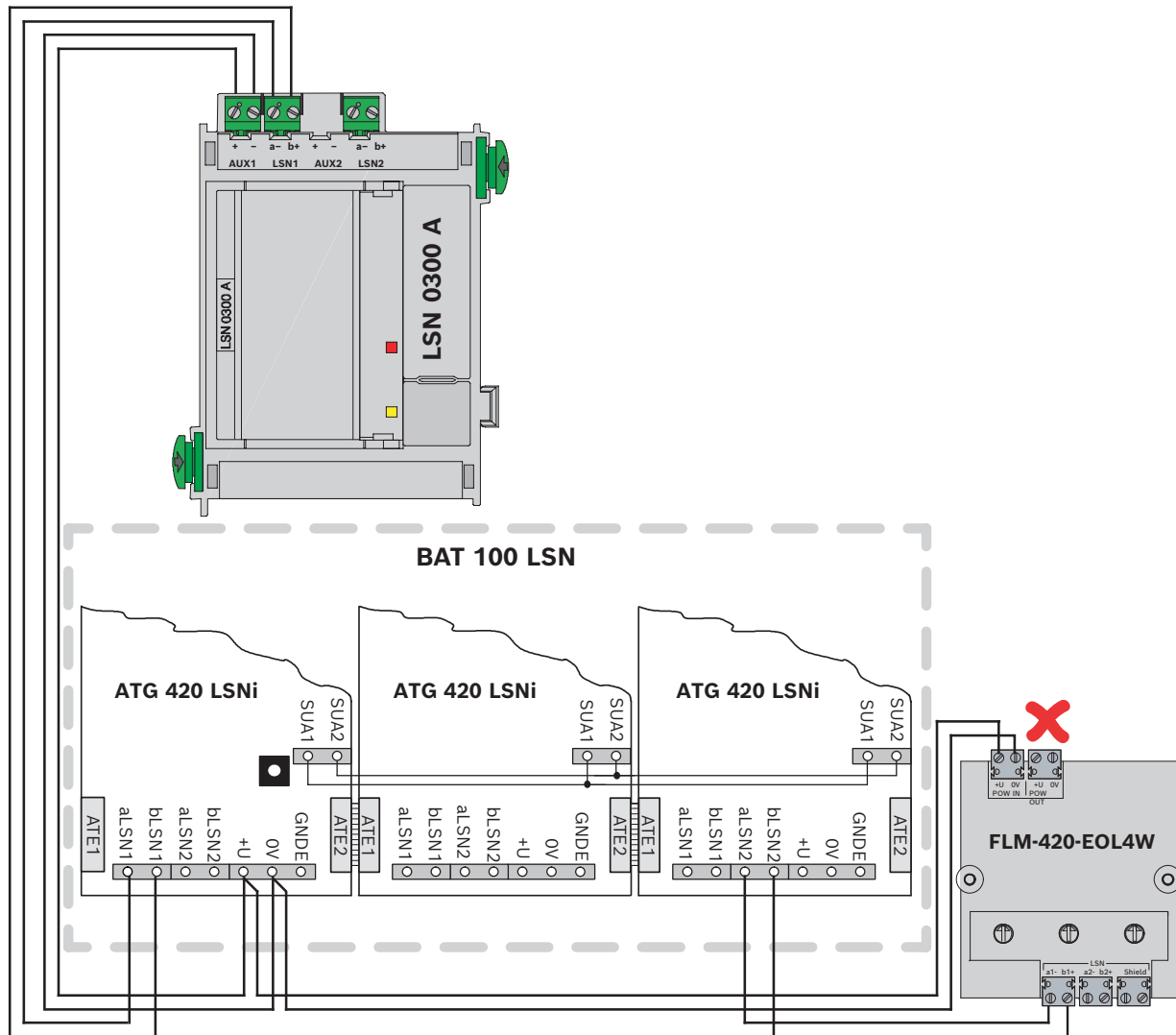




**BAT 100 LSN
ATG 420 LSNi**

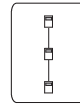


ELS

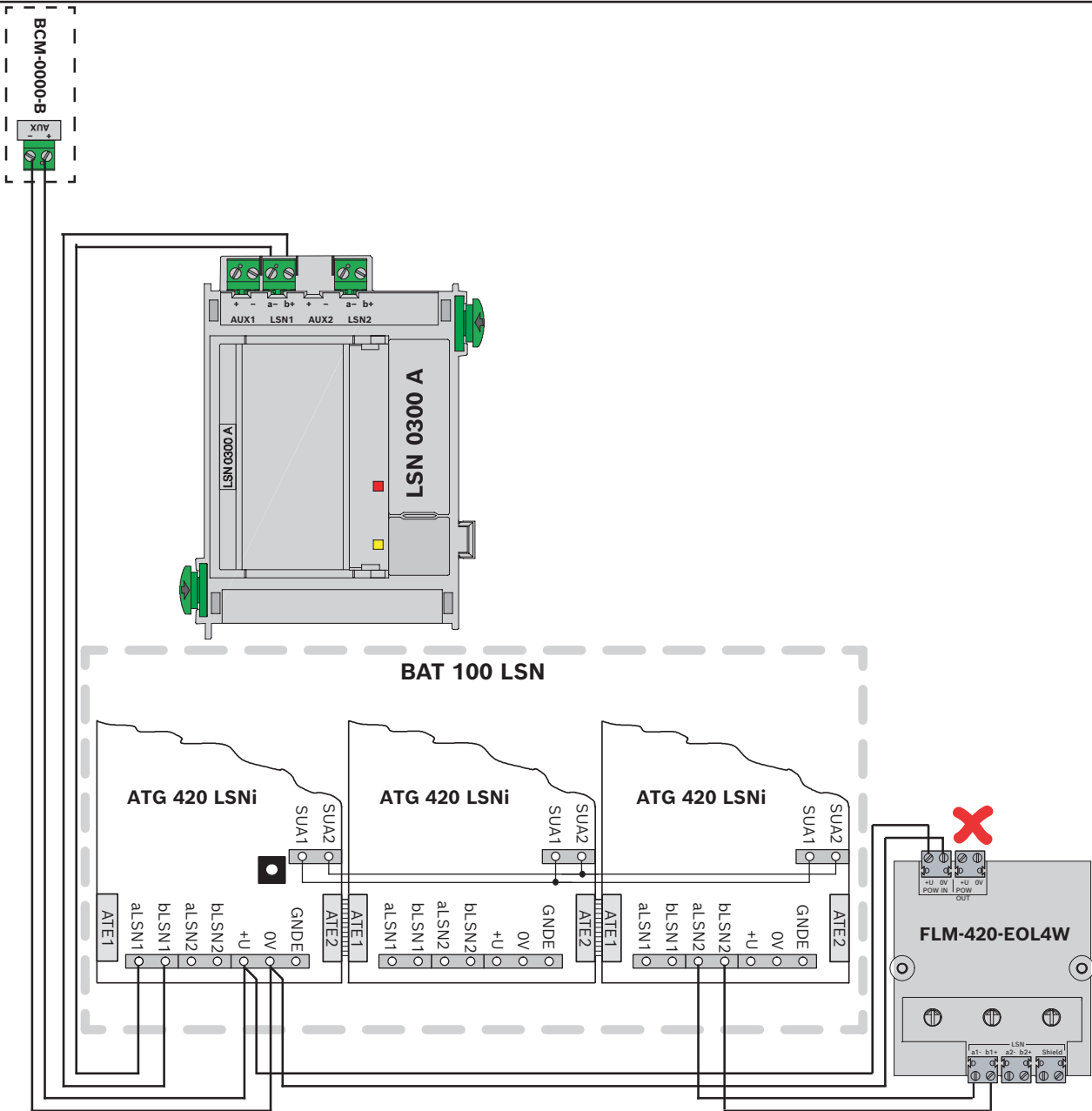




BAT 100 LSN
ATG 420 LSNi

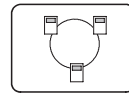


ELS

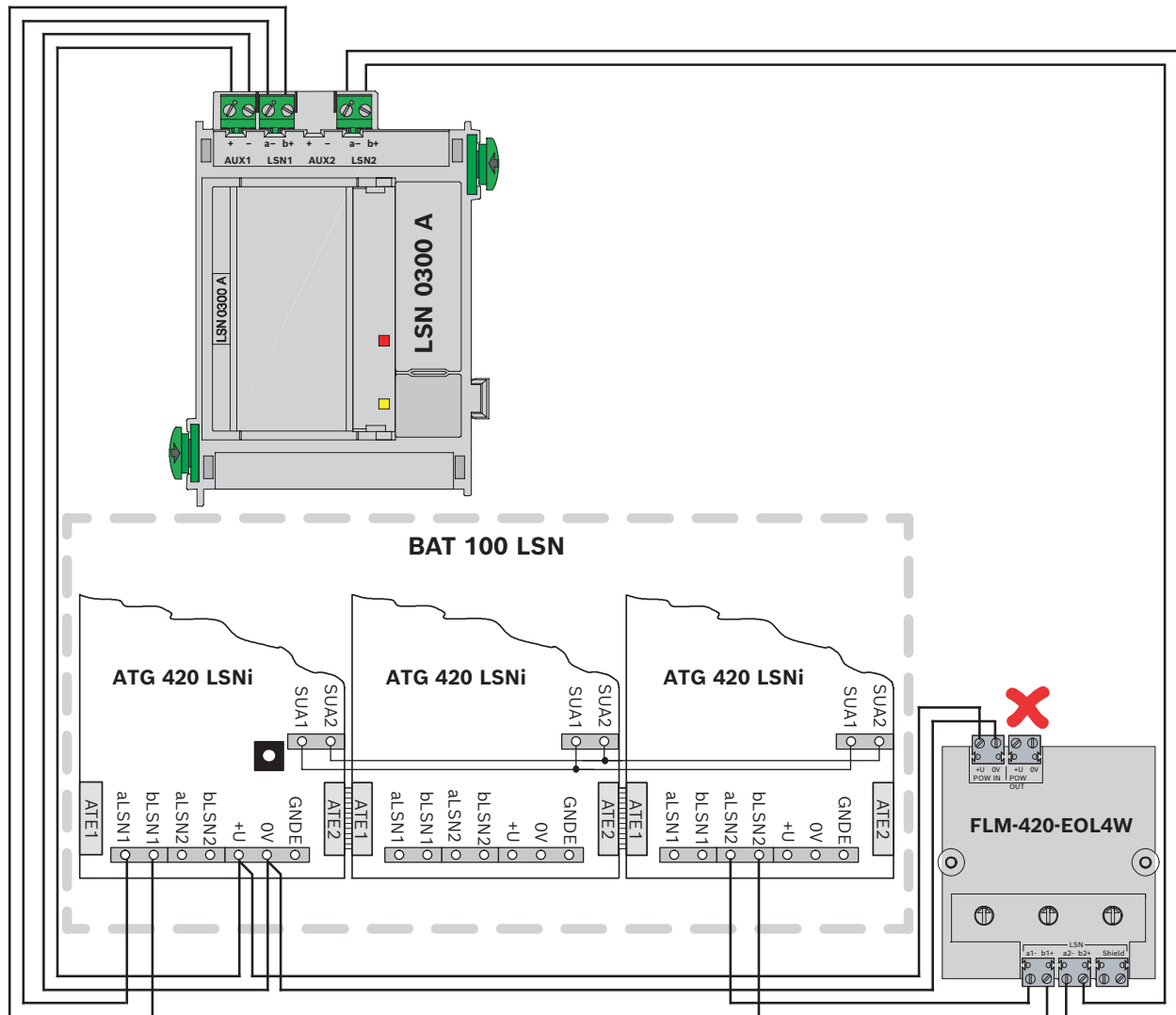




**BAT 100 LSN
ATG 420 LSNi**

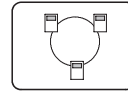


ELS

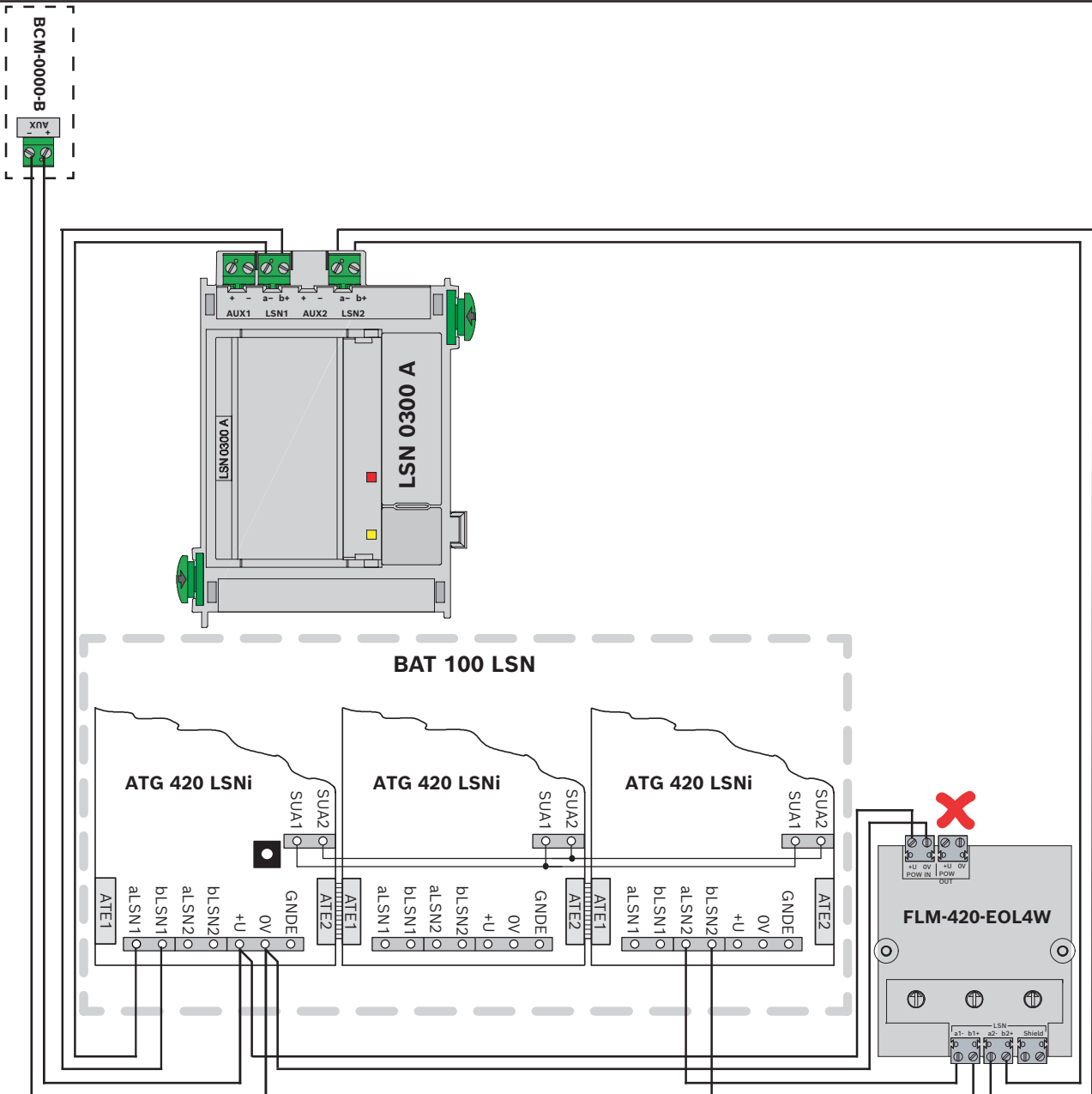




BAT 100 LSN
ATG 420 LSNi



ELS

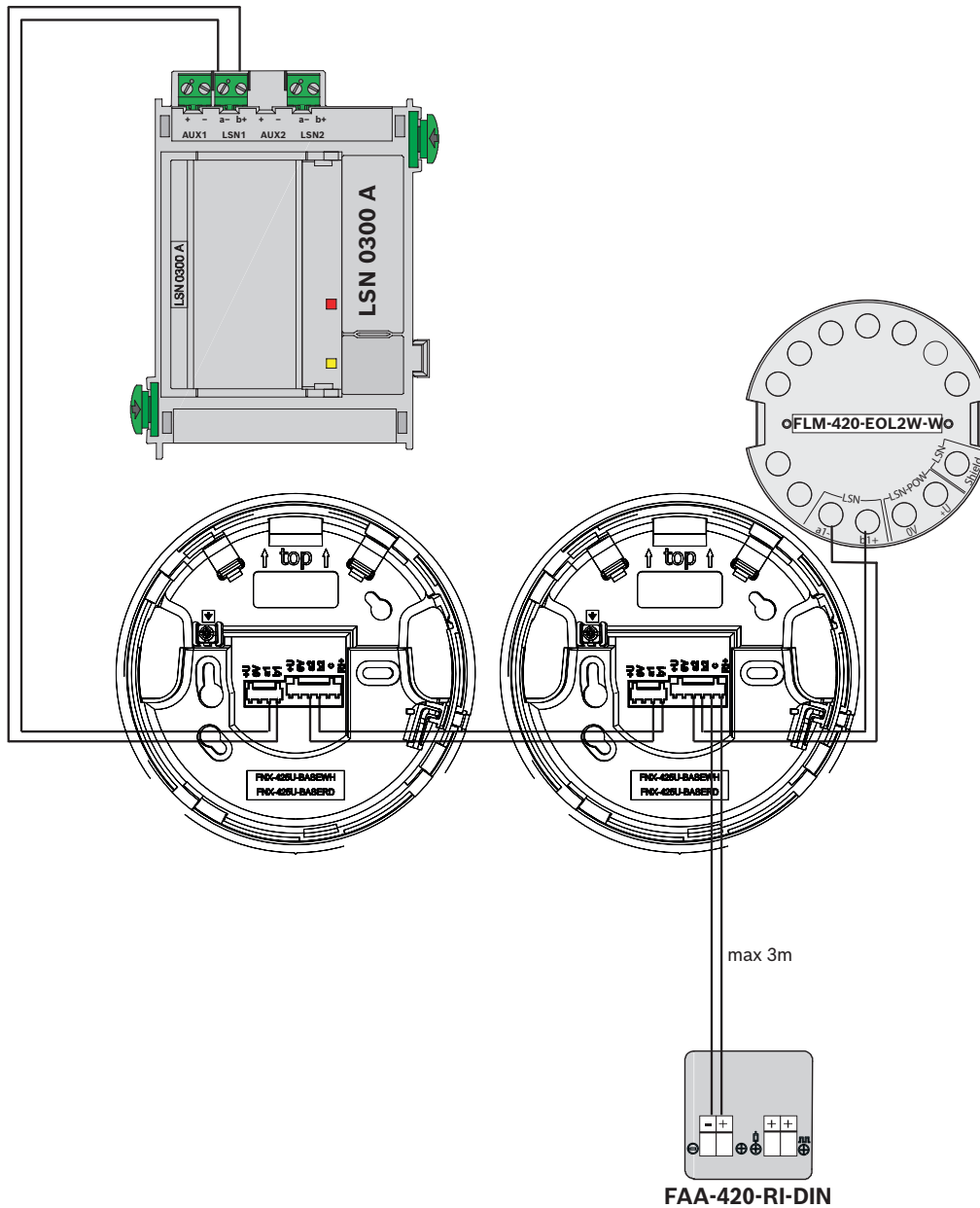




FNX-425U-WFWH
FNX-425U-RFWH
FNX-425U-WFRD
FNX-425U-RFRD



ELS



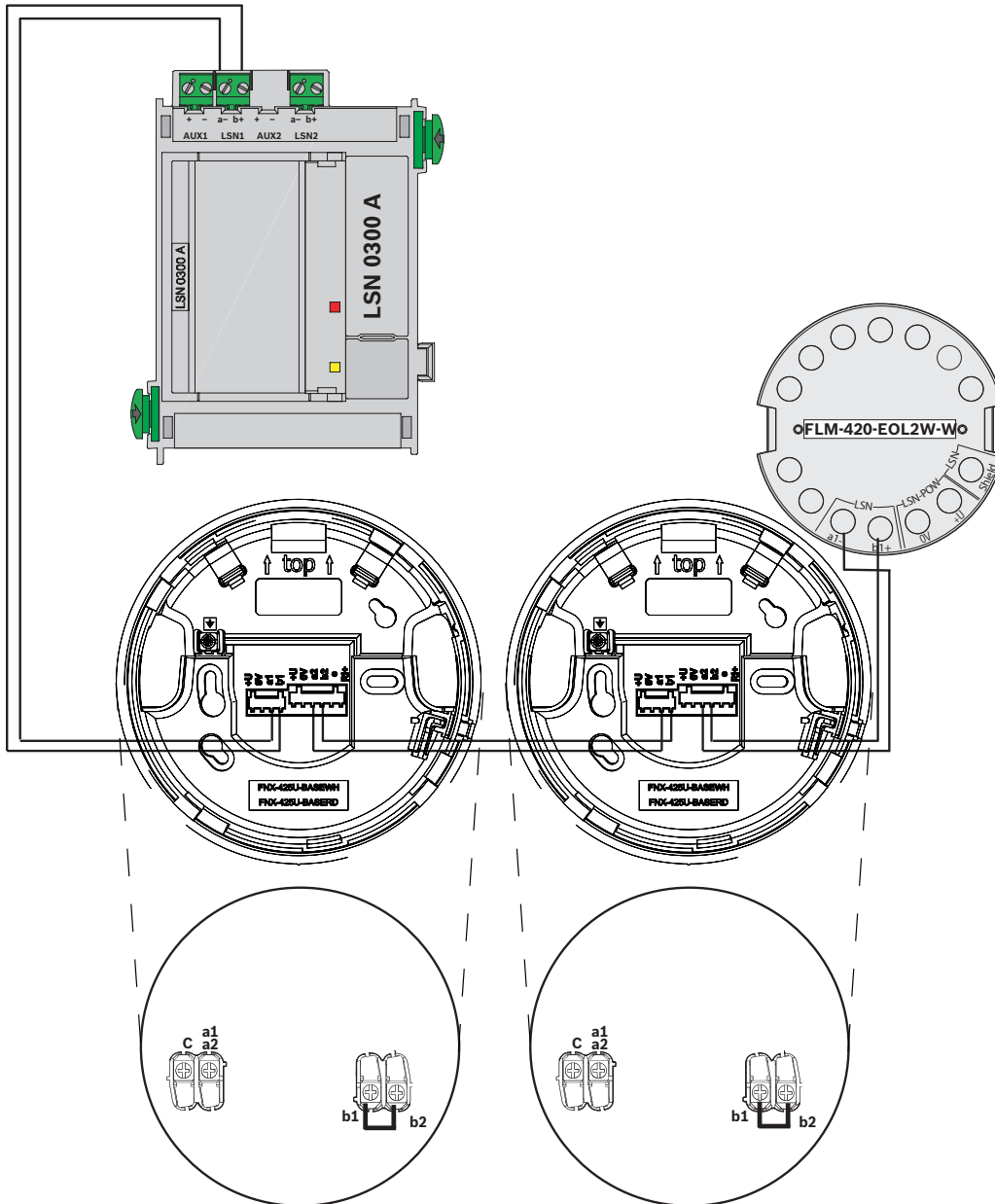


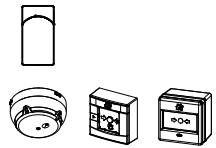
FNX-425U-WFWH
 FNX-425U-RFWH
 FNX-425U-WFRD
 FNX-425U-RFRD

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



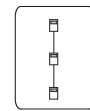
ELS



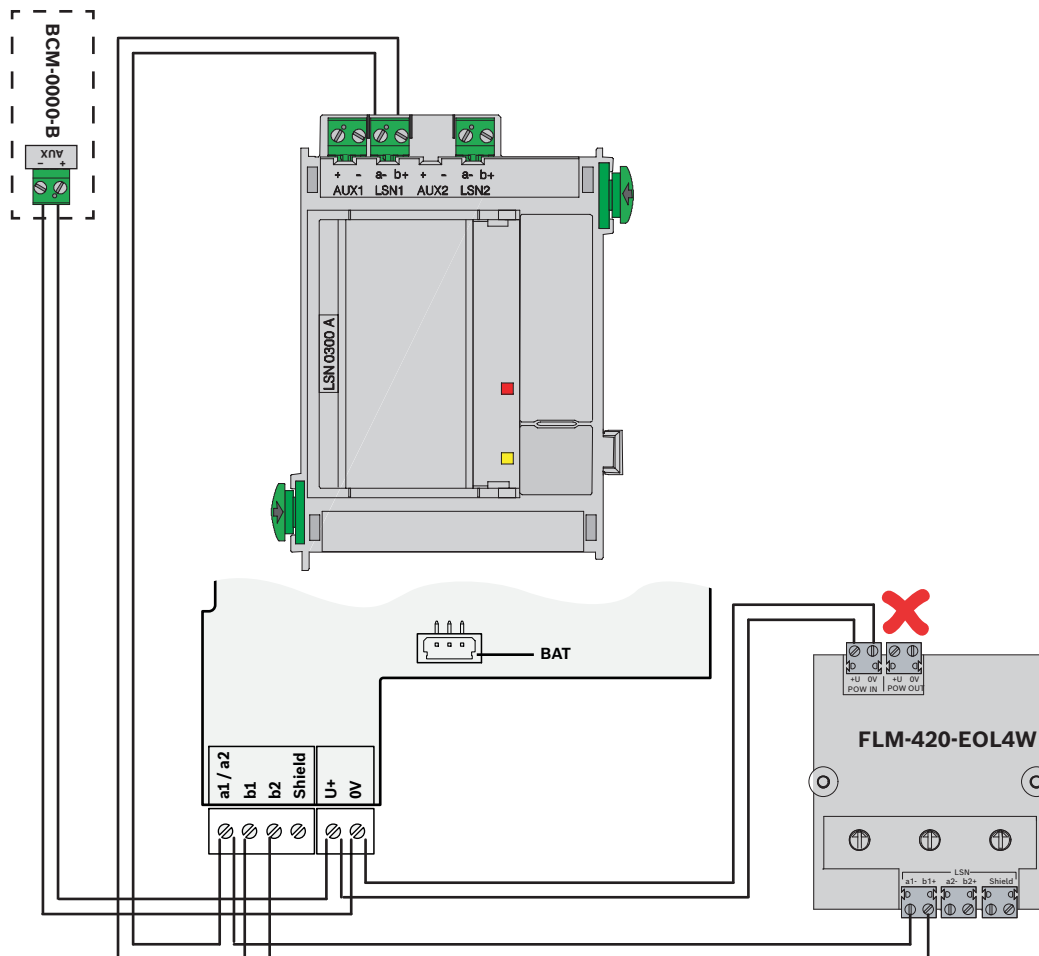


FWI-270

FDOOT271-O
FDM275-O
FDM273-O



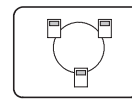
ELS



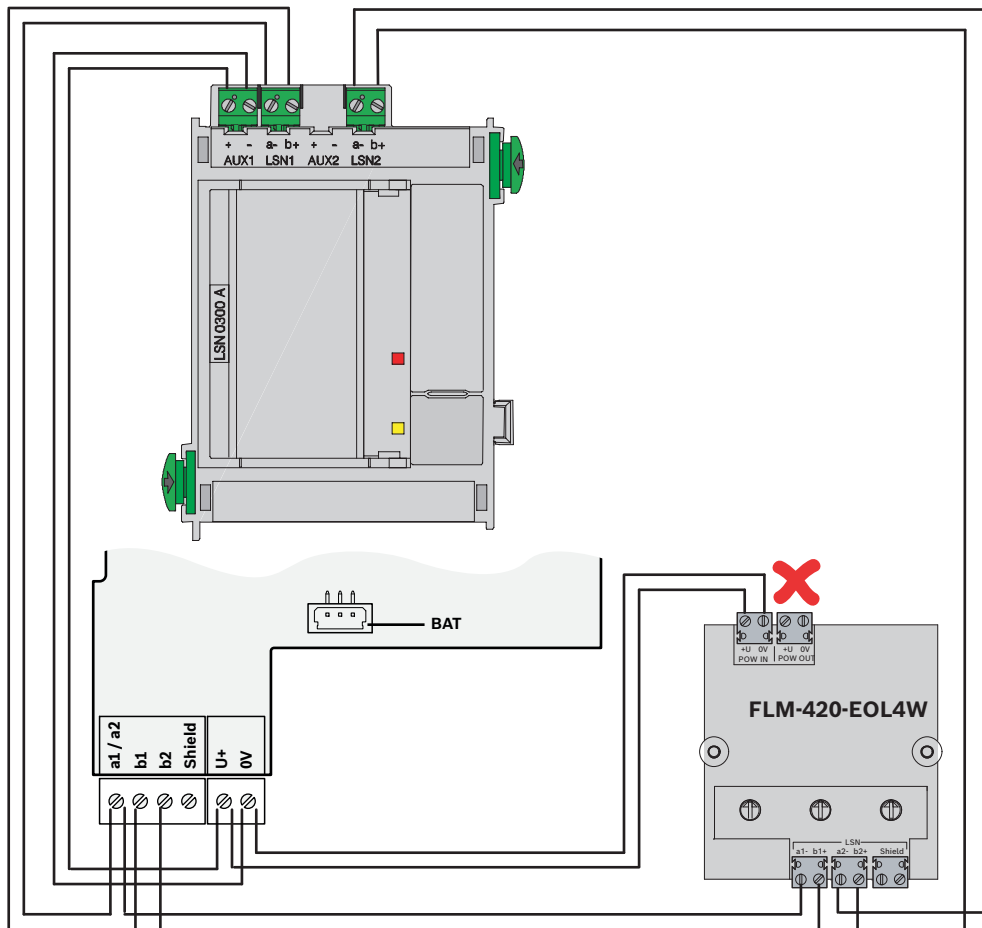


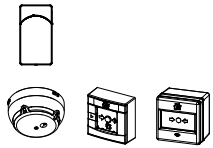
FWI-270

FDOOT271-O
FDM275-O
FDM273-O



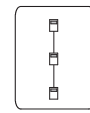
ELS



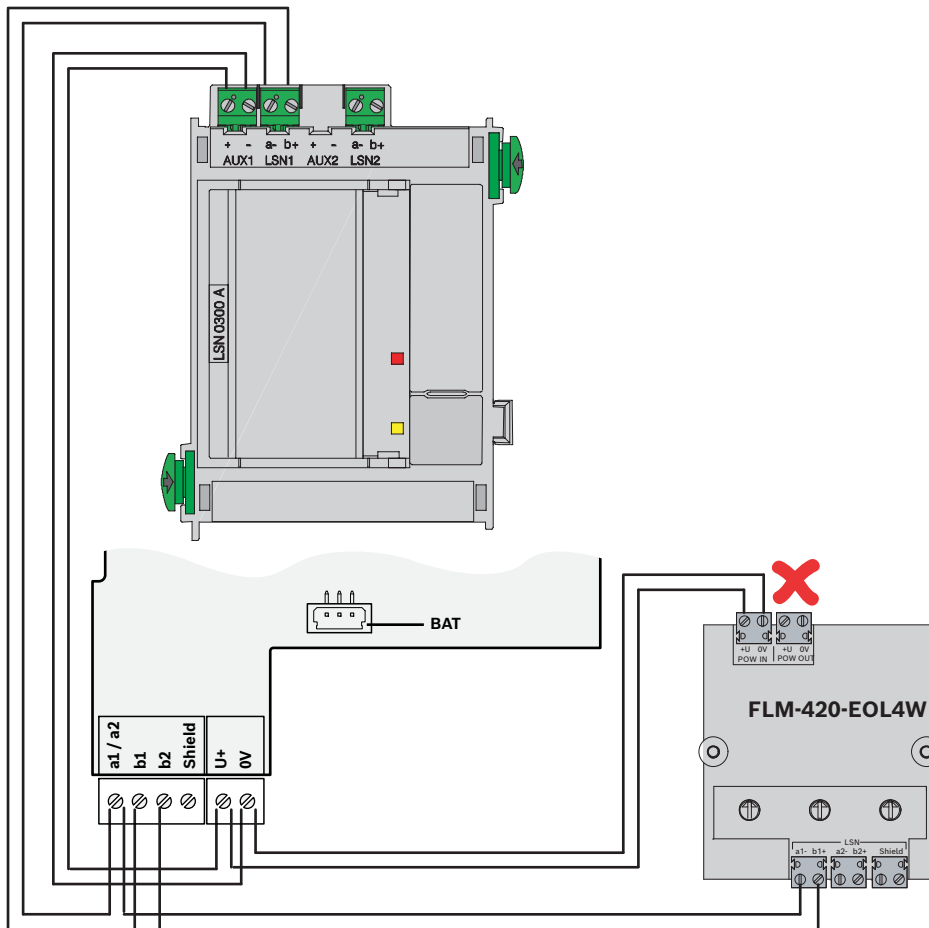


FWI-270

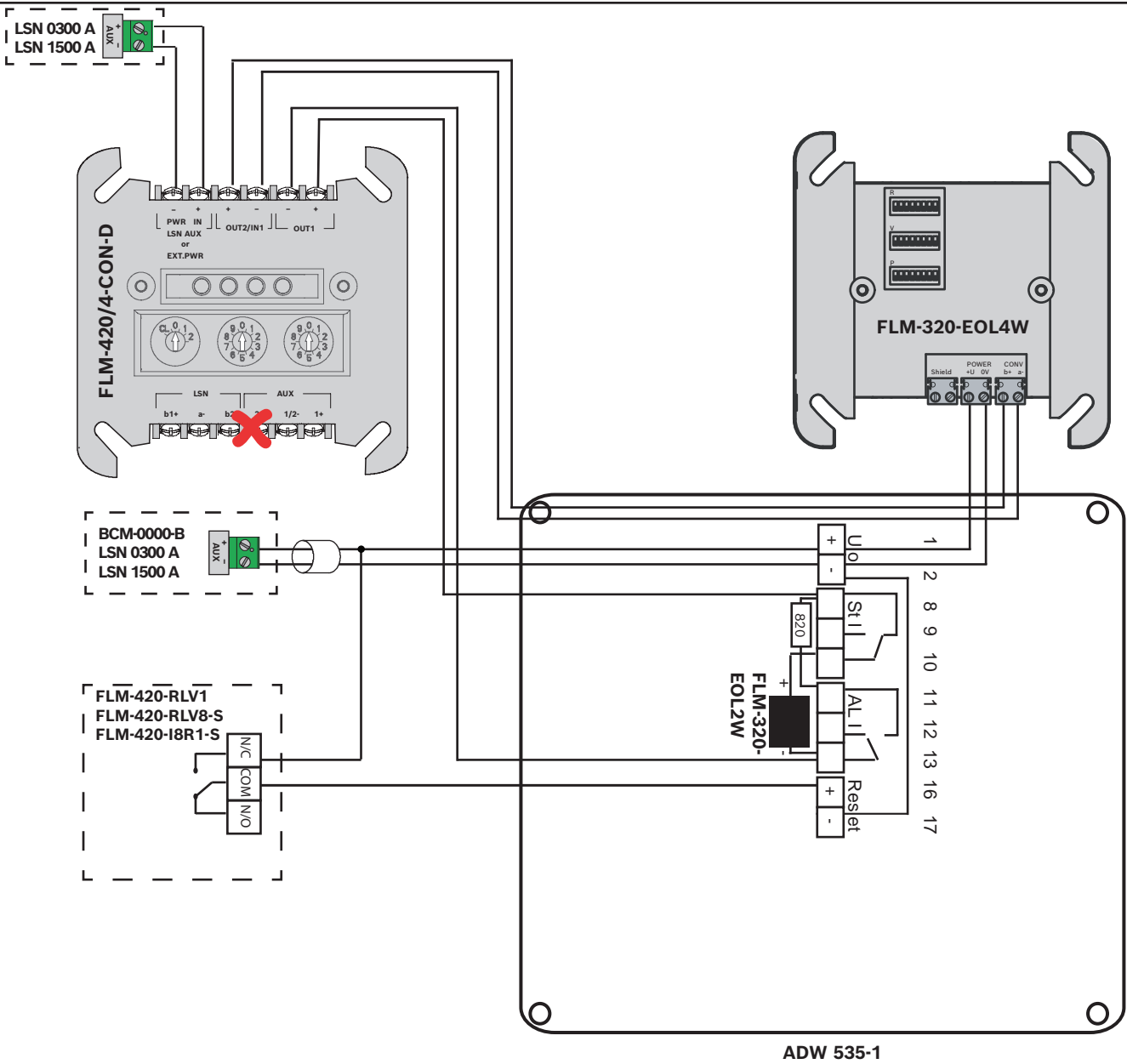
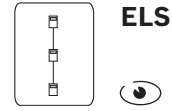
FDOOT271-O
FDM275-O
FDM273-O

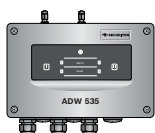


ELS

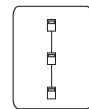


2.6.3 FLM-420/4-CON-S/D

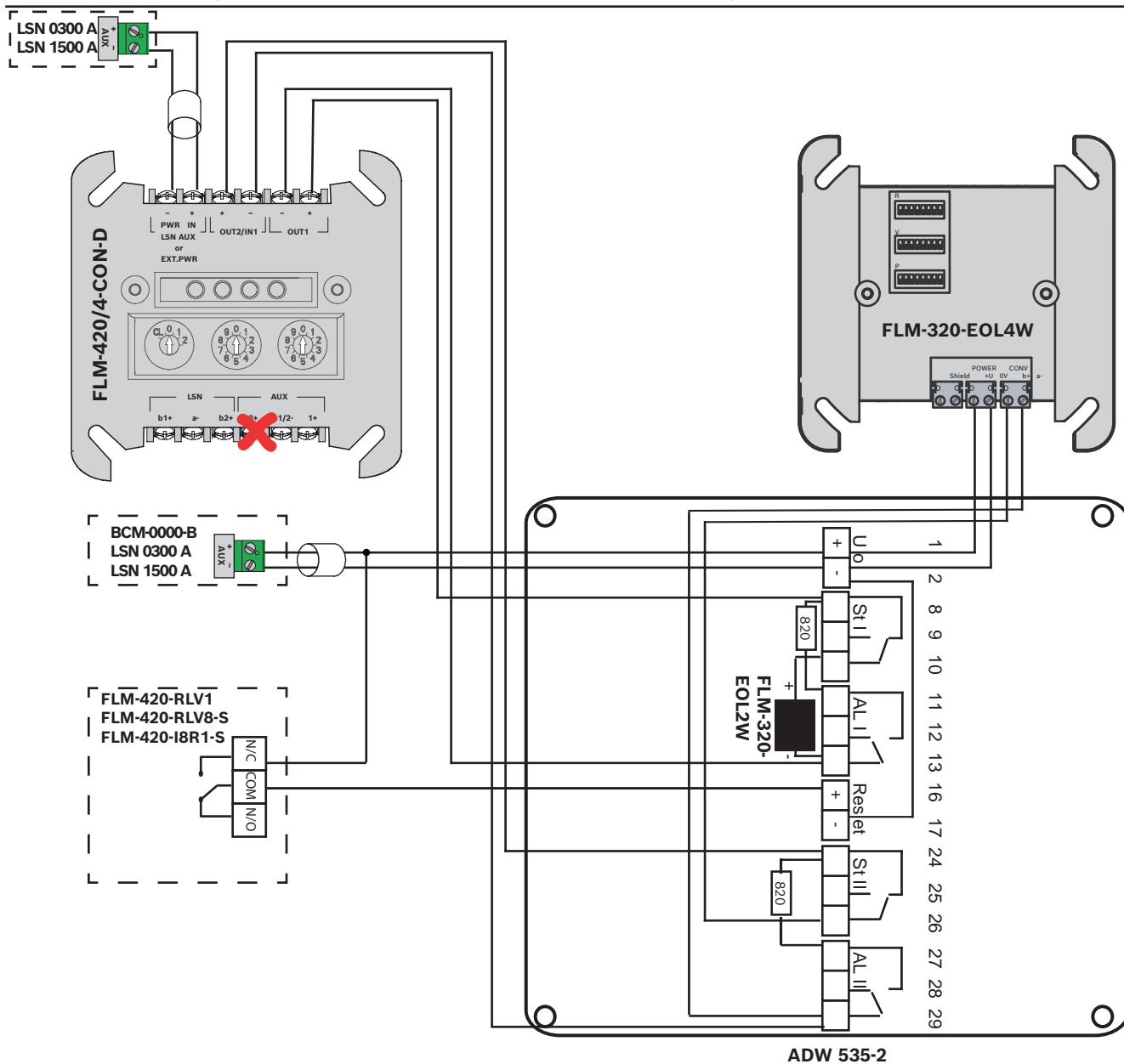


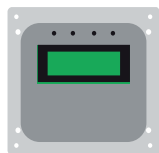


ADW 535-2



ELS

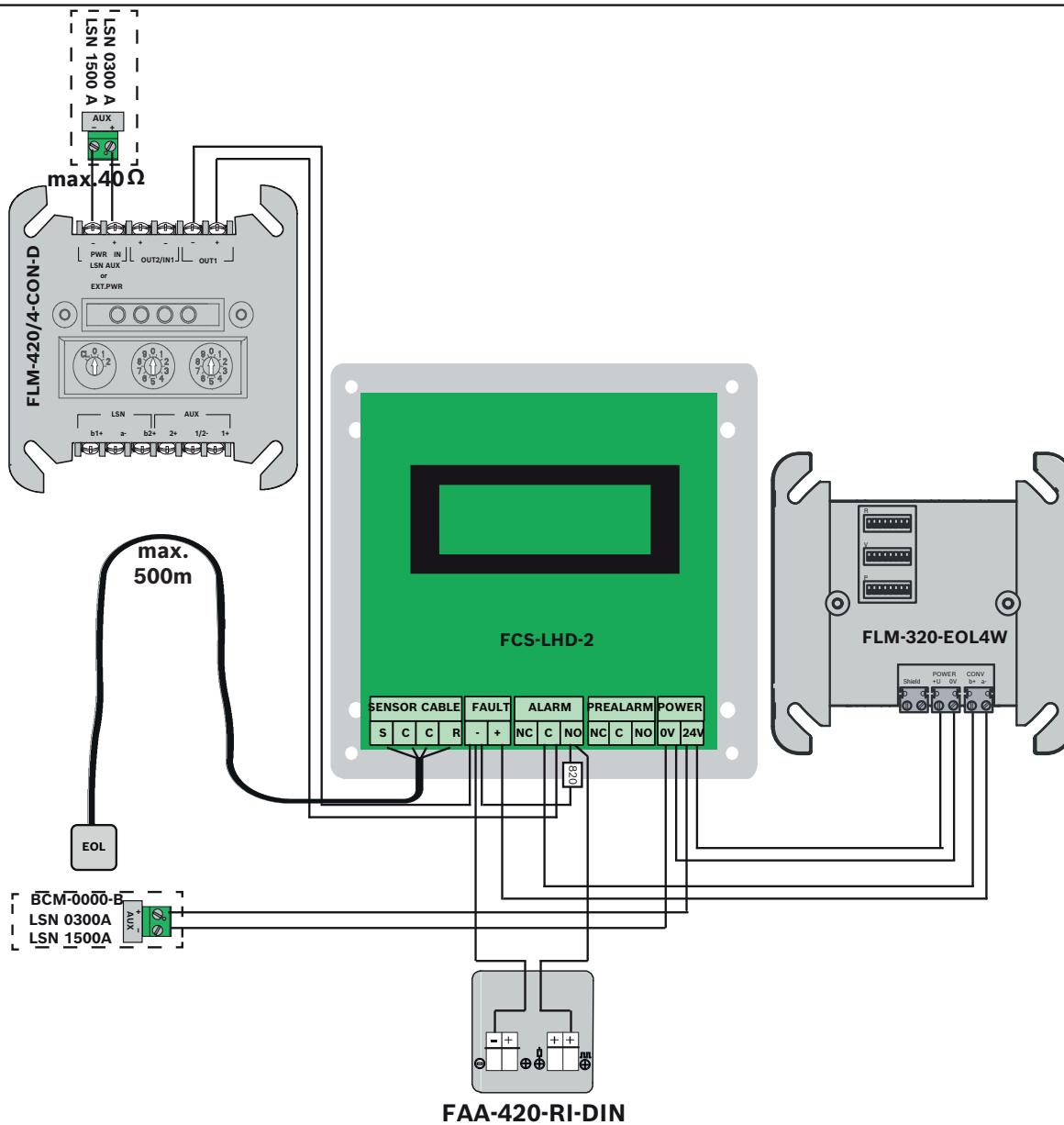




ALARMLINE II

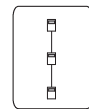


ELS

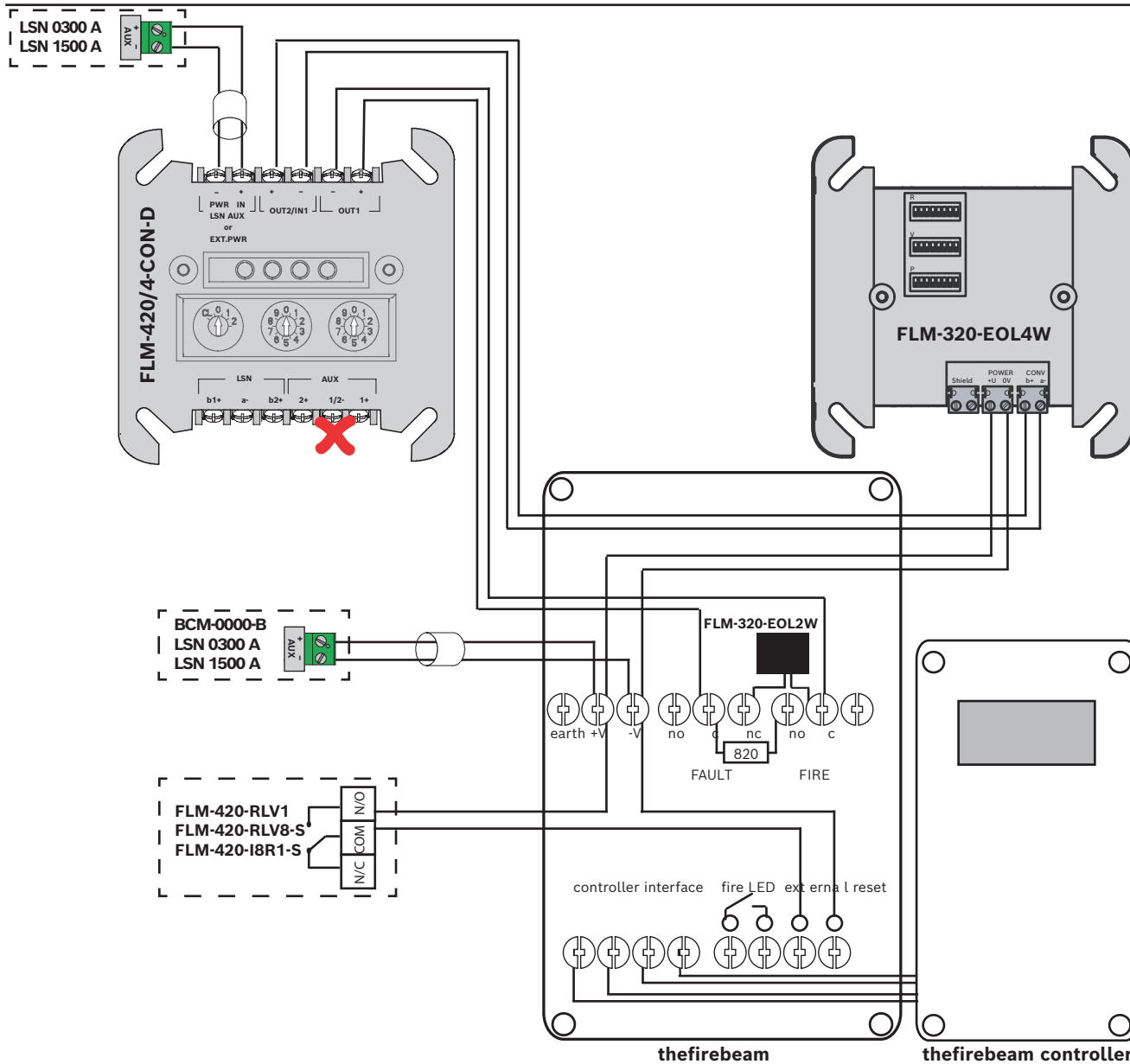


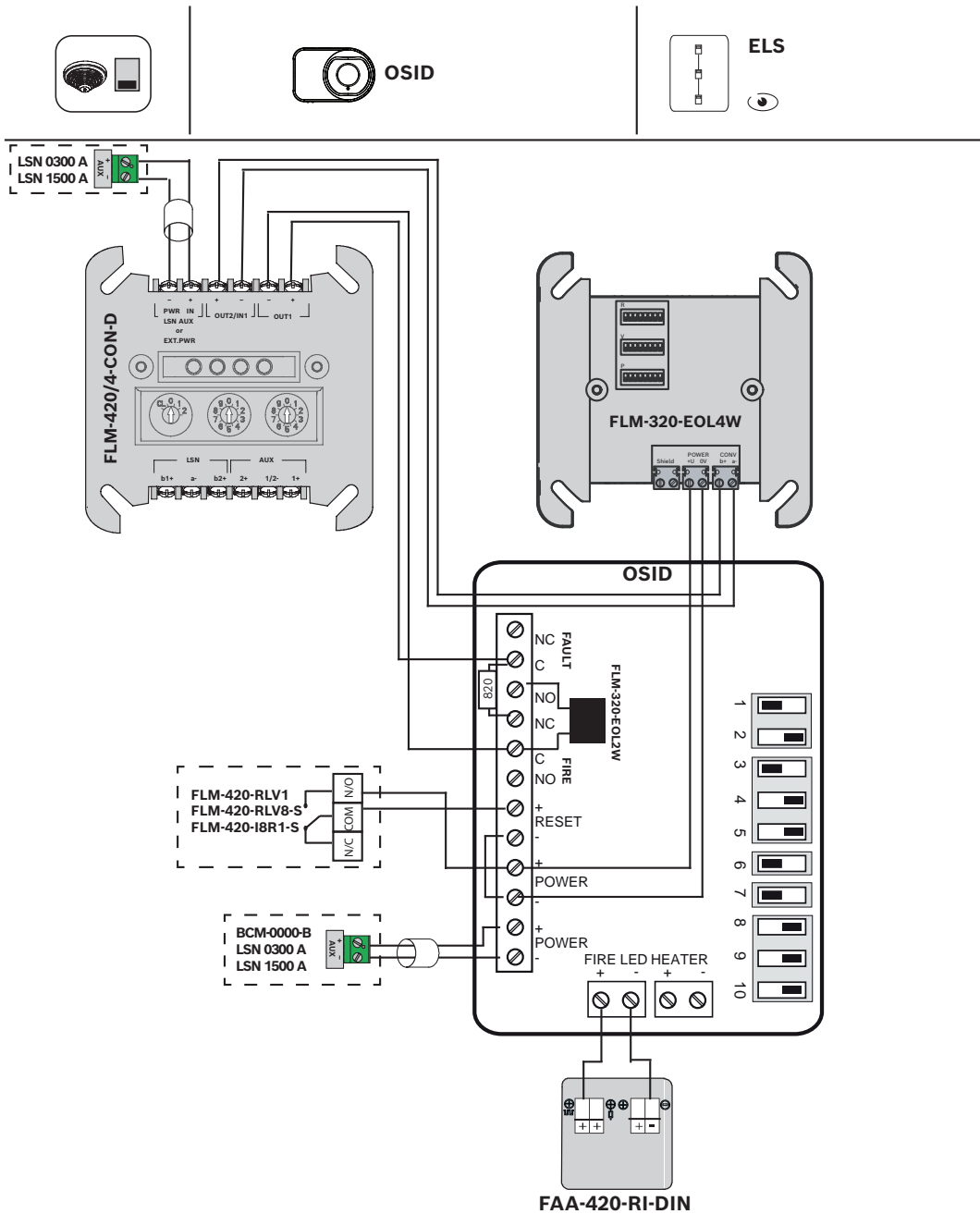


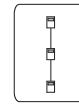
thefirebeam nano
thefirebeam standard
thefirebeam foveo



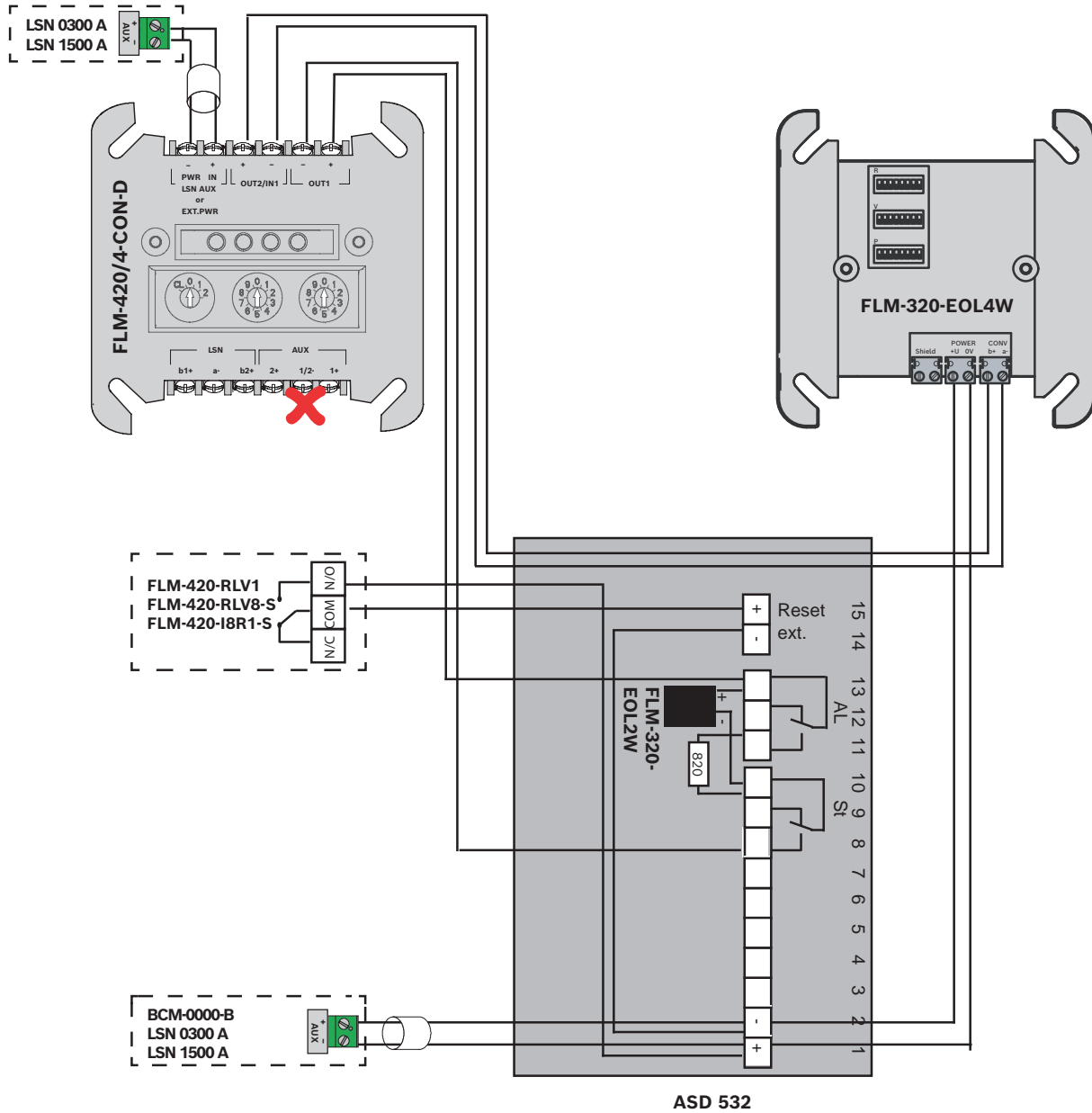
ELS

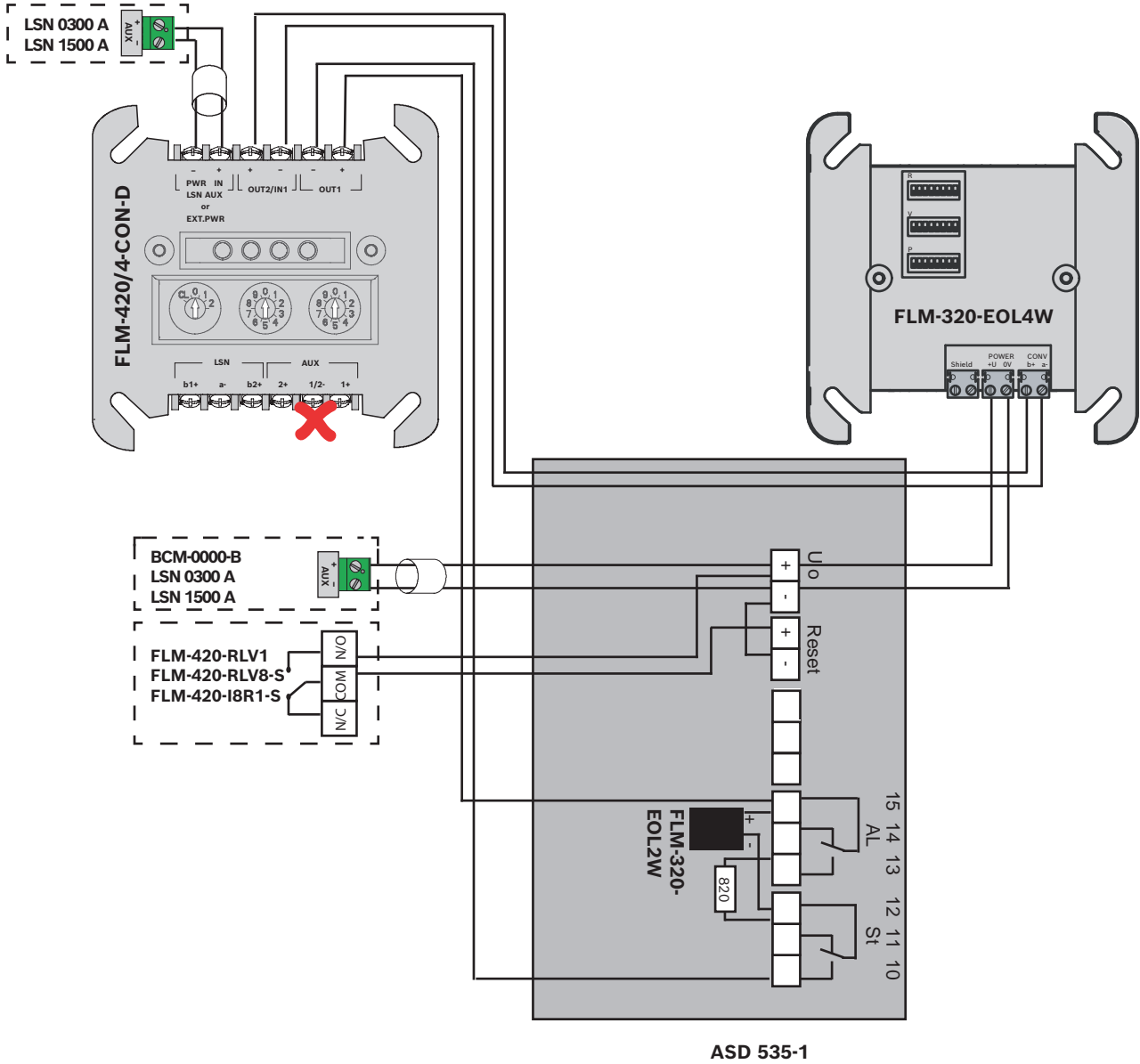
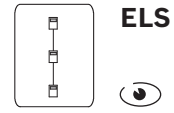


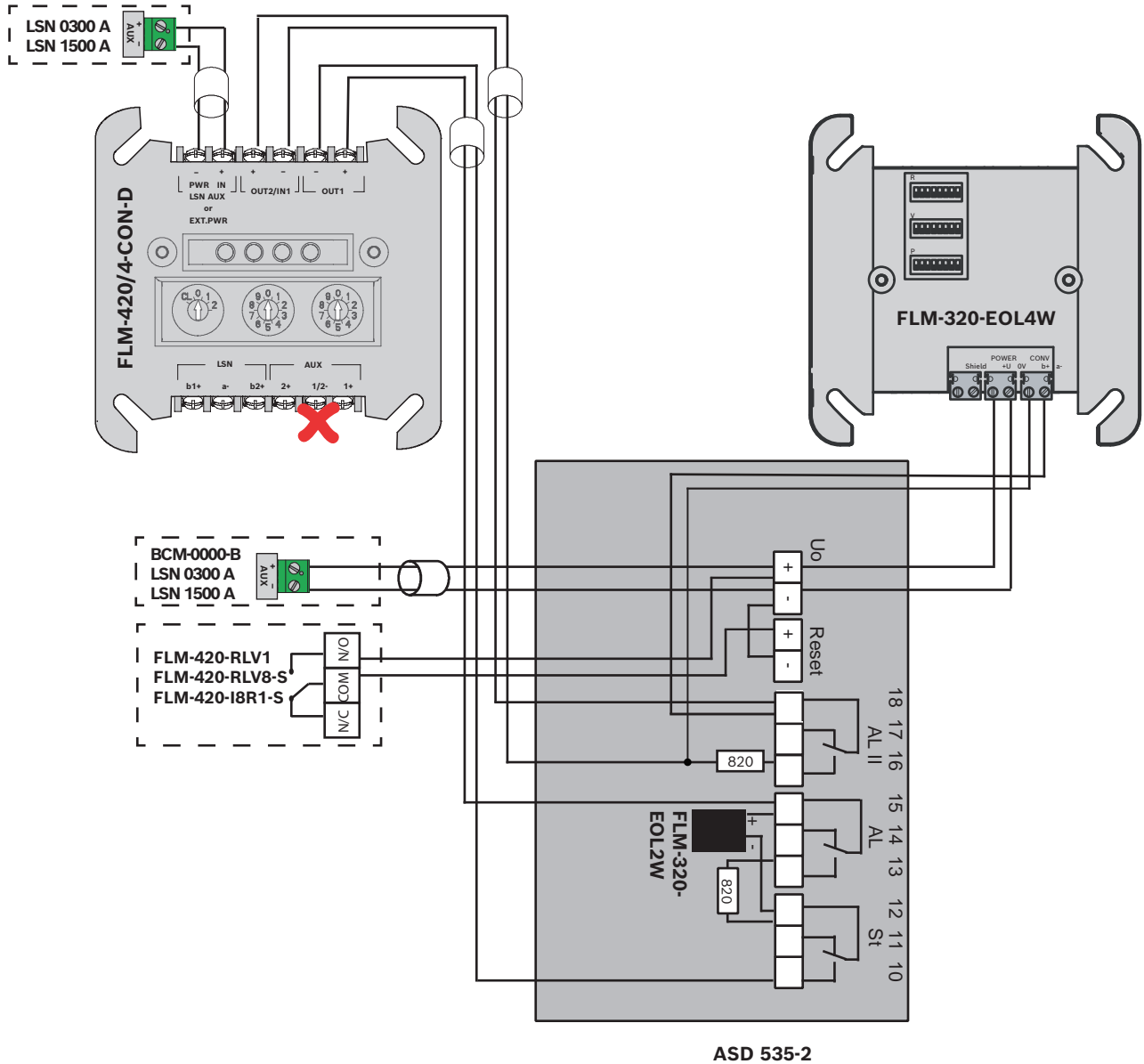
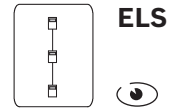




ELS

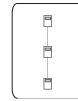






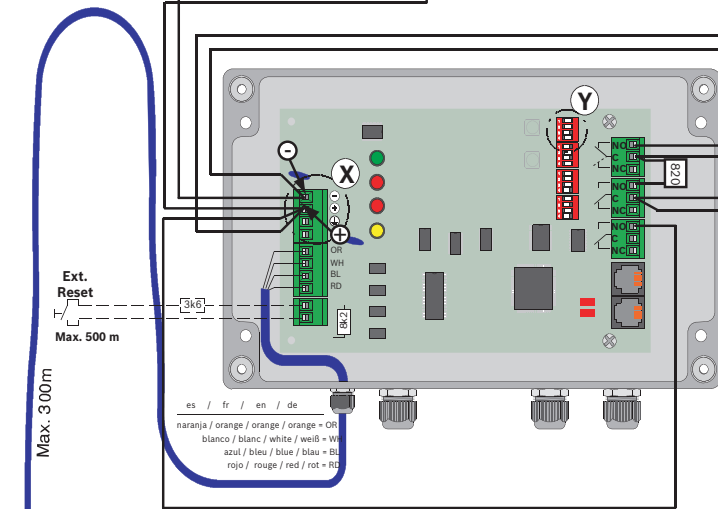
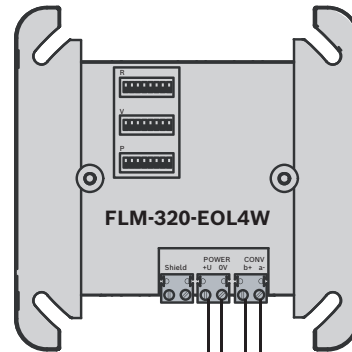
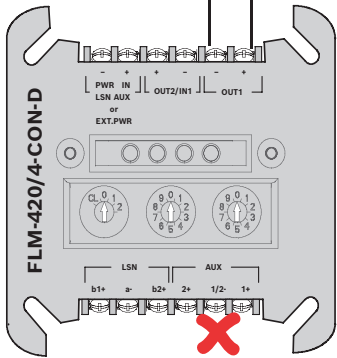


FCS-LWM-1



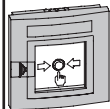
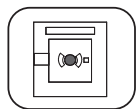
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

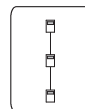


es / fr / en / de
naranja / orange / orange / orange = OR
blanco / blanc / white / weiß = WH
azul / bleu / blue / blau = BL
rojo / rouge / red / rot = RE

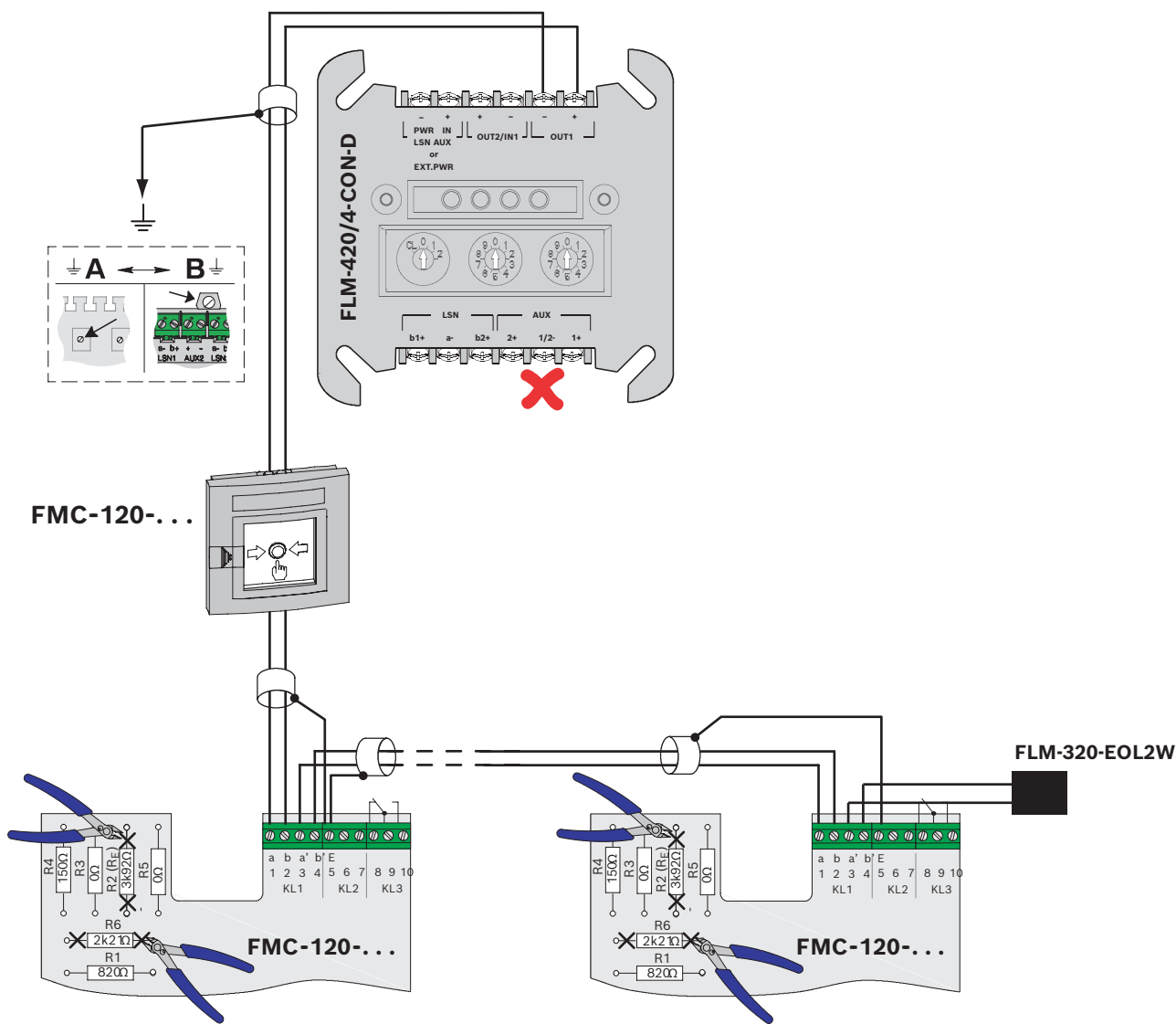


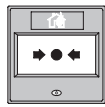
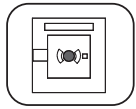


FMC-120-DKM-G-R FMC-120-DKM-G-Y
 FMC-120-DKM-H-R FMC-120-EST-G-B
 FMC-120-DKM-G-B
 FMC-120-DKM-H-B

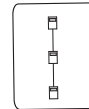


ELS

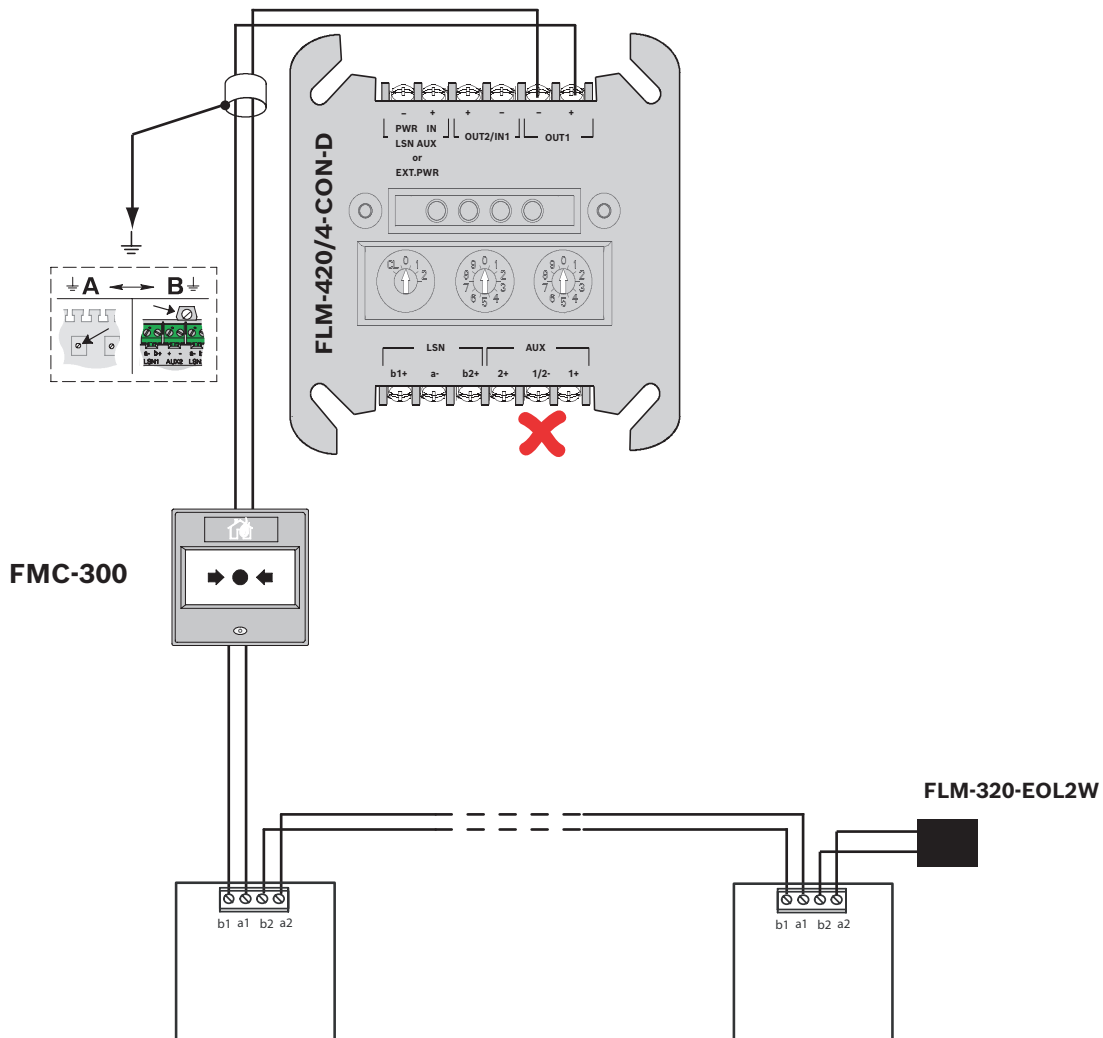


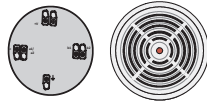


FMC-300



ELS

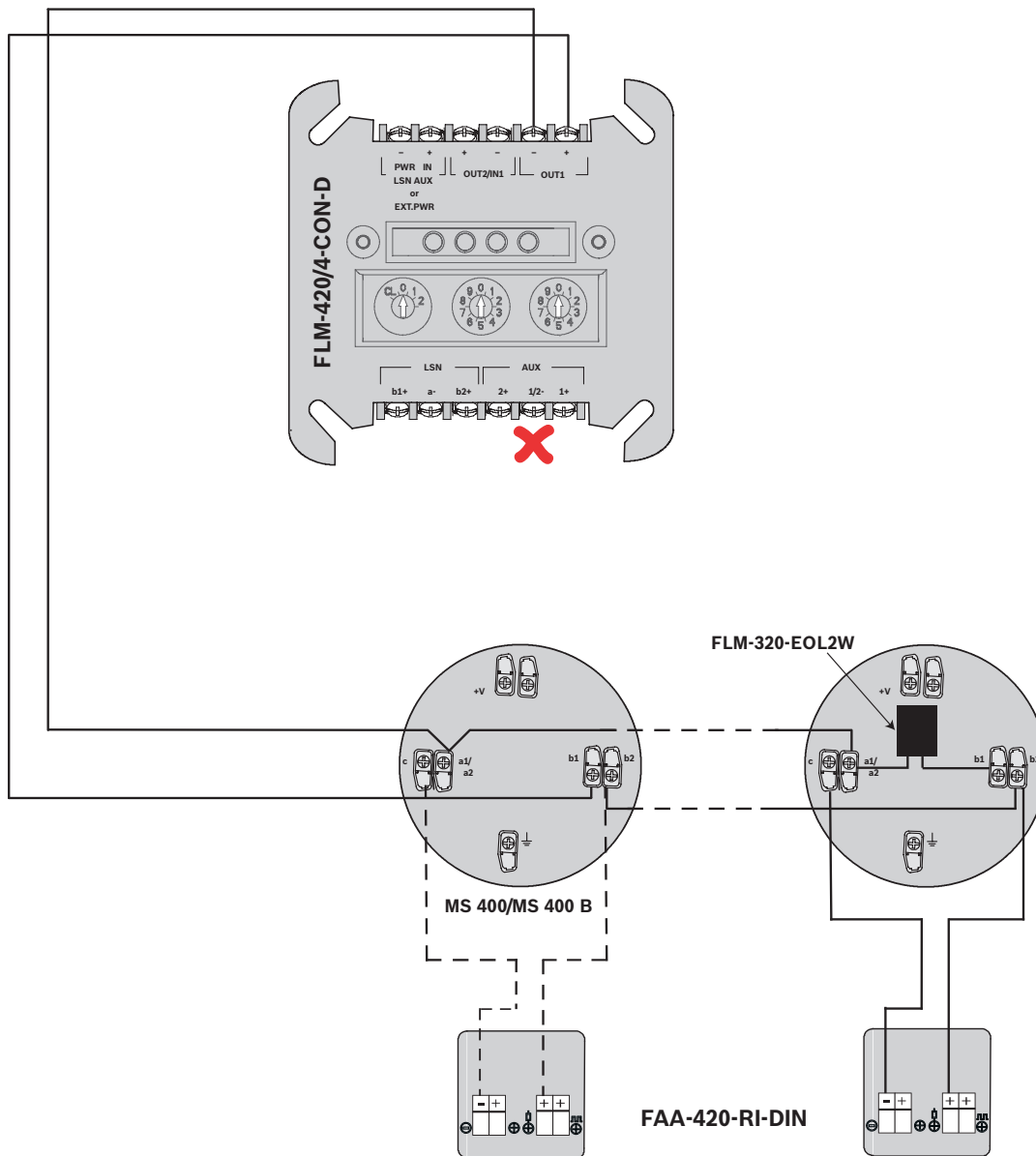




MSS 400, MSS 400 B
 FCH-320-T320
 FCH-T320-R470, FCH-T320-FSA
 FCP-O320, FCP-O320-R470
 FCP-OC320, FCP-OC320-R470
 FCP-OT320, FCP-OT320-R470



ELS

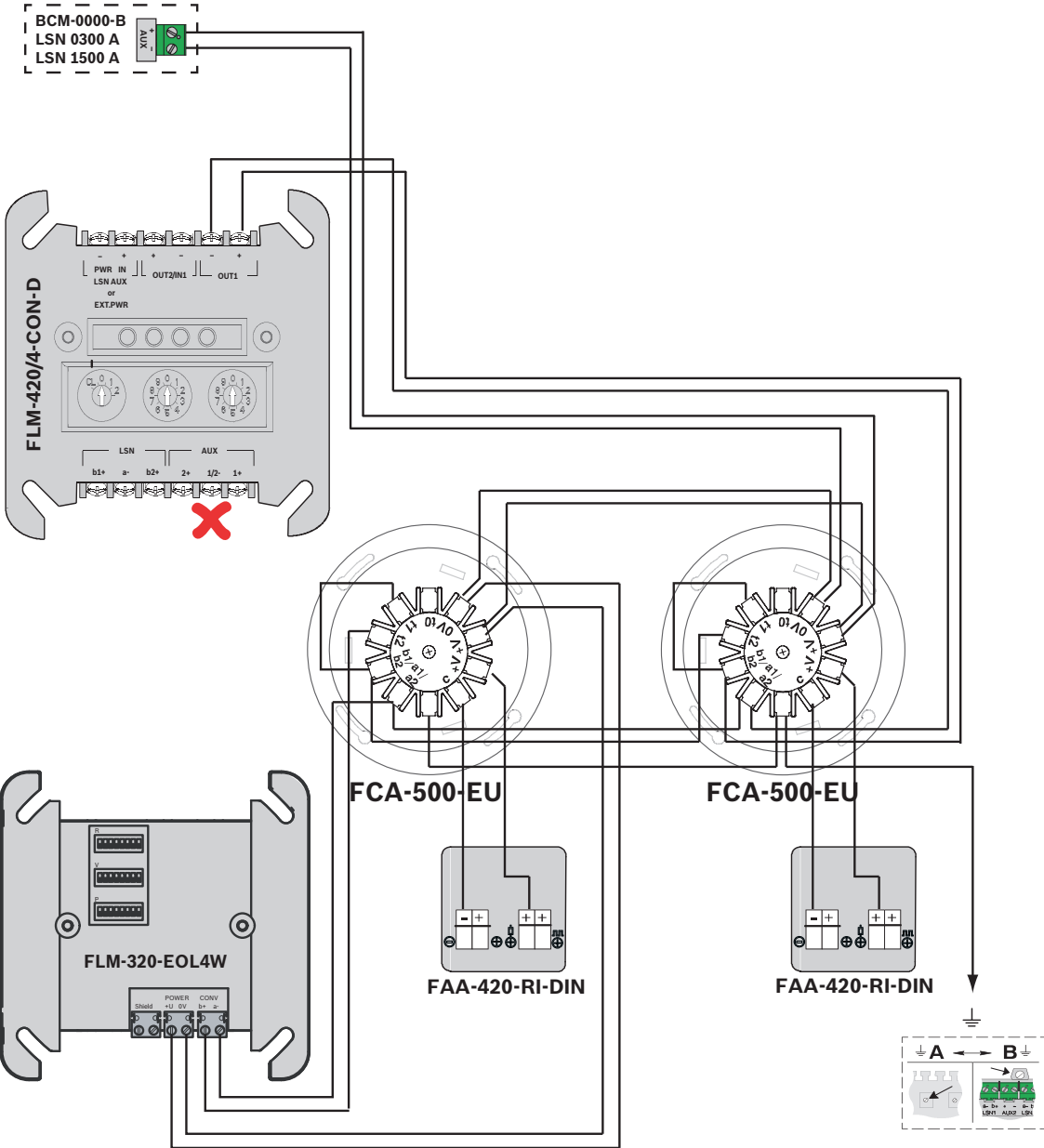


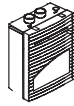


FCP-500

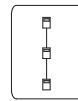


ELS

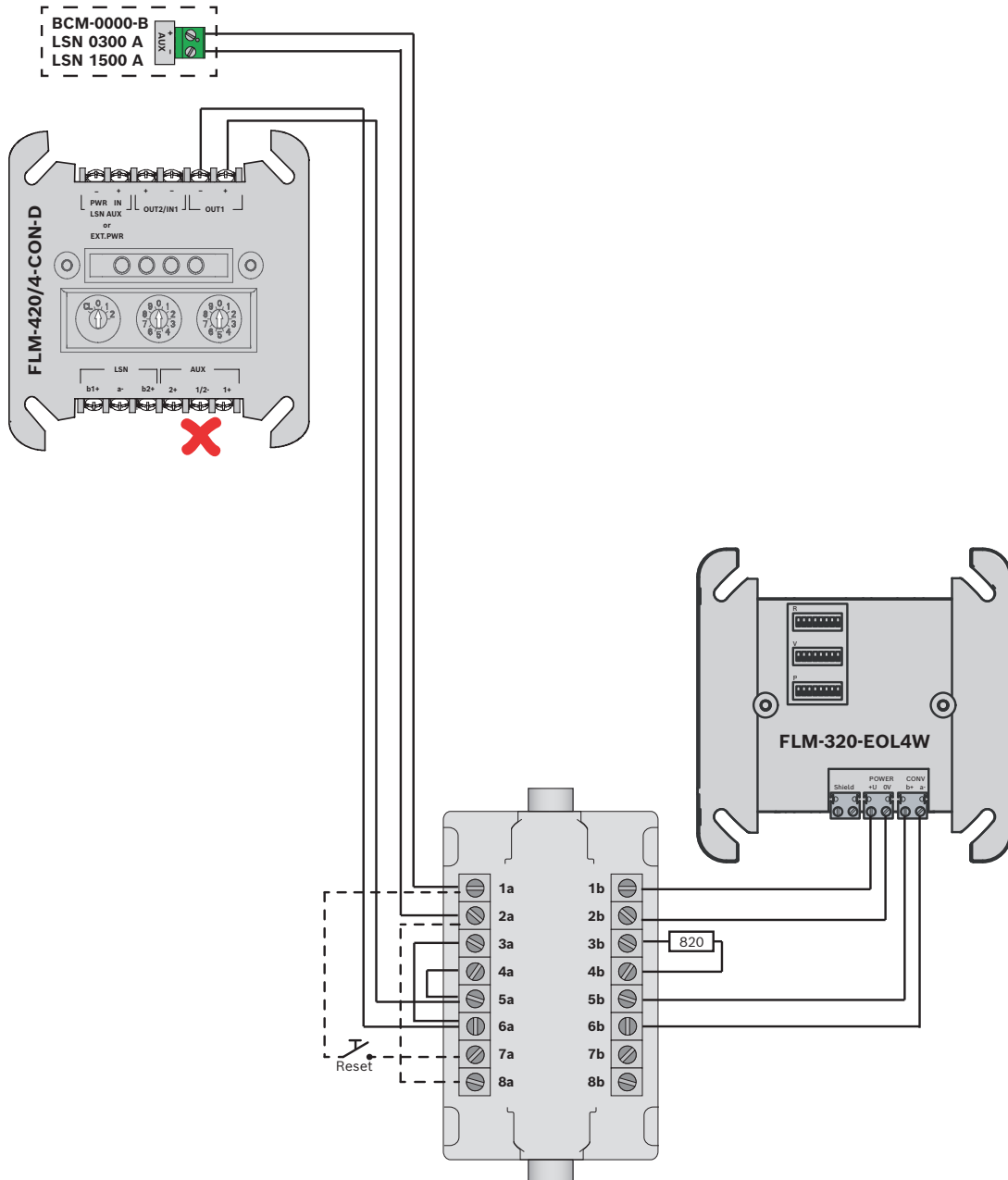


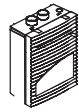


FCS-320-TM Series

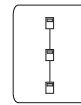


ELS



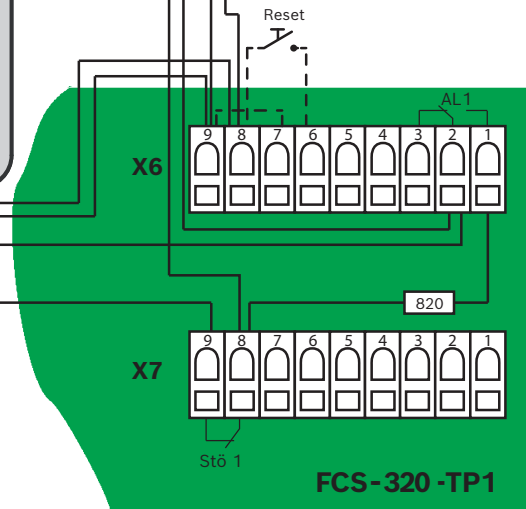
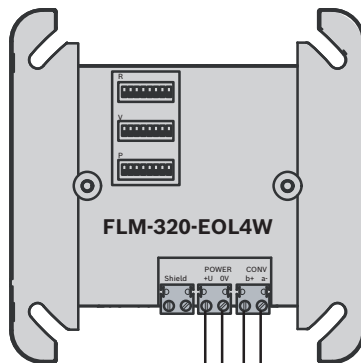
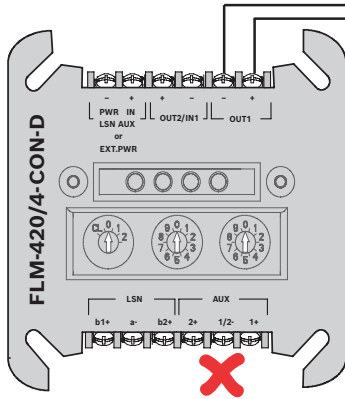


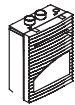
FCS-320-TP Series



ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A



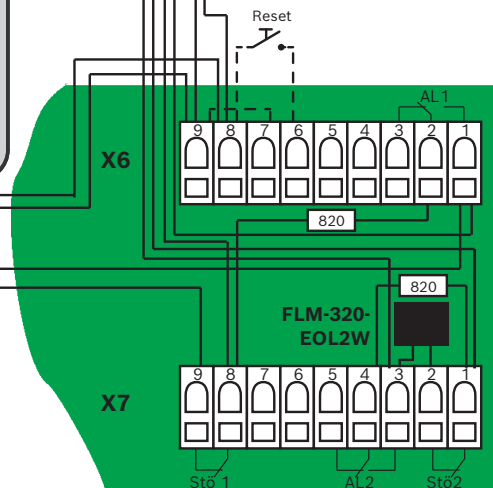
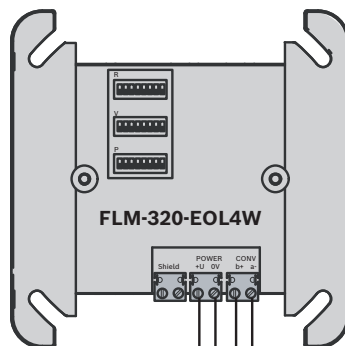
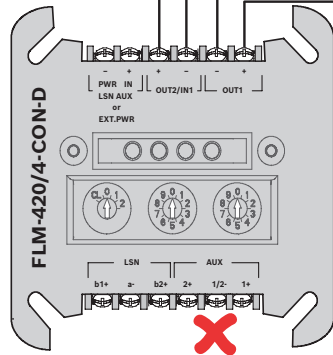


FCS-320-TP Series

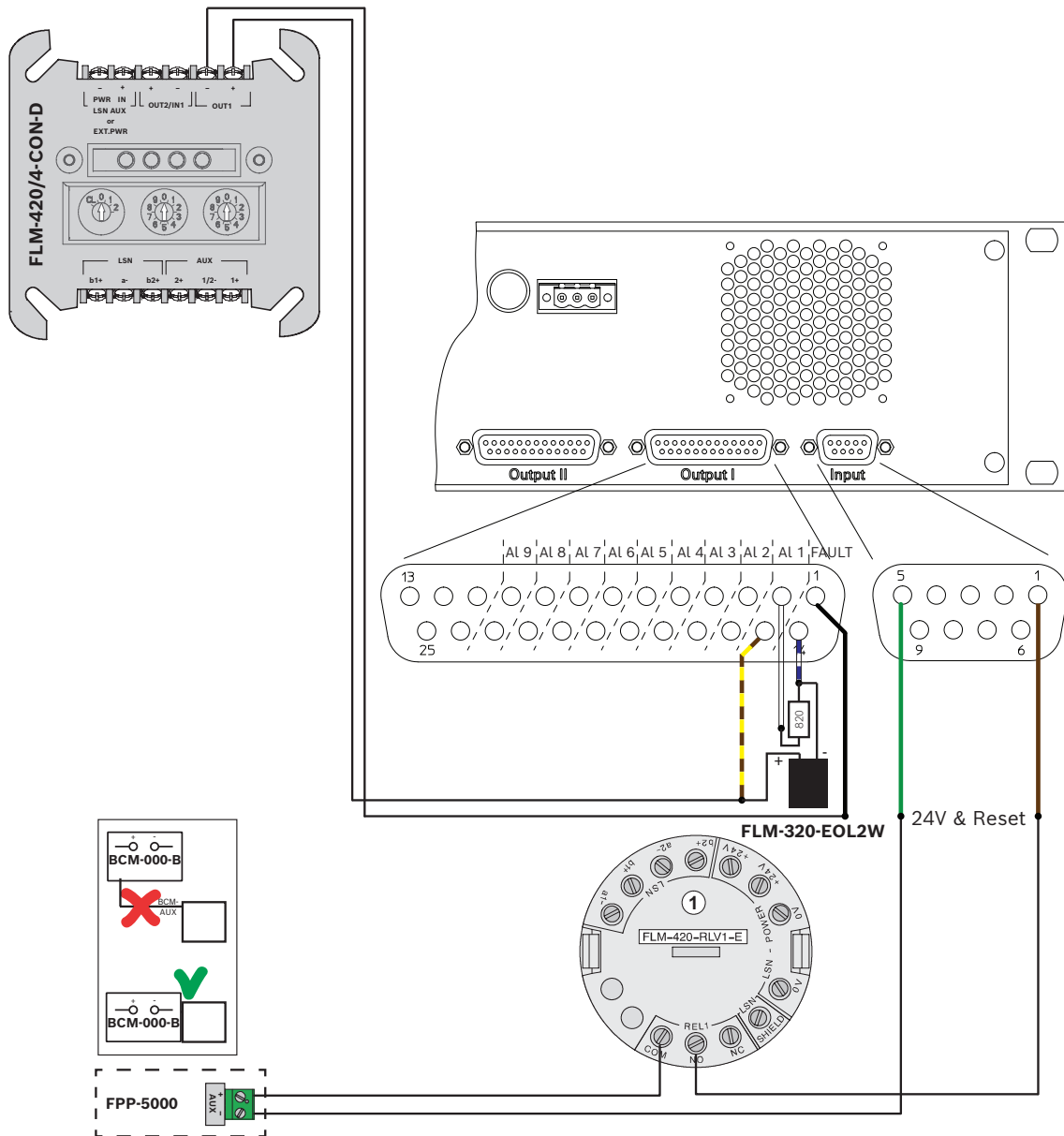
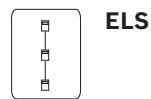


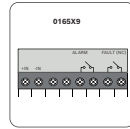
ELS

BCM-0000-B
LSN 0300 A
LSN 1500 A

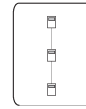


FCS-320-TP2

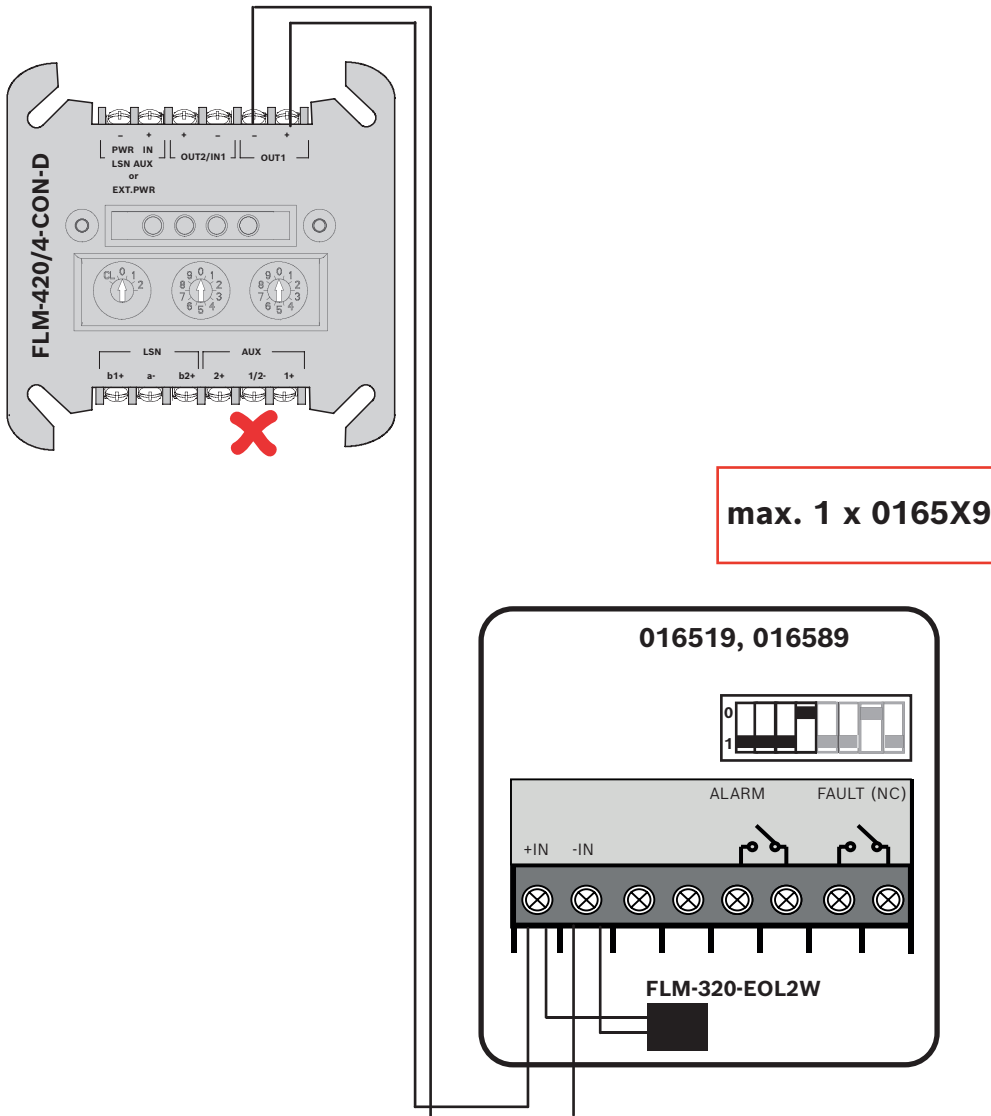


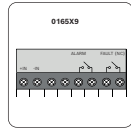


016519, 016589
IR3 Flame Detector

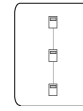


ELS

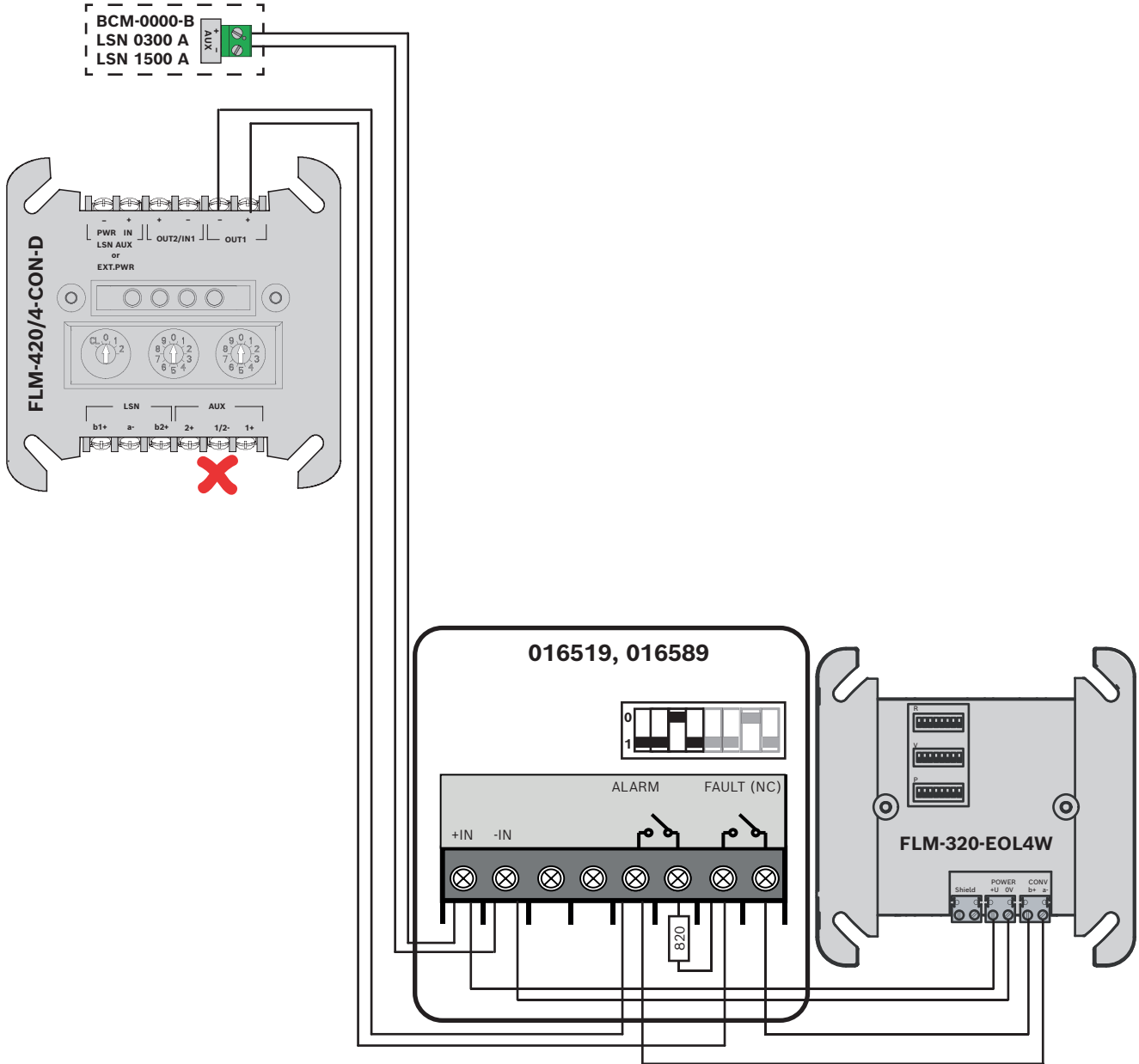




016519, 016589
IR3 Flame Detector

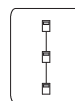


ELS

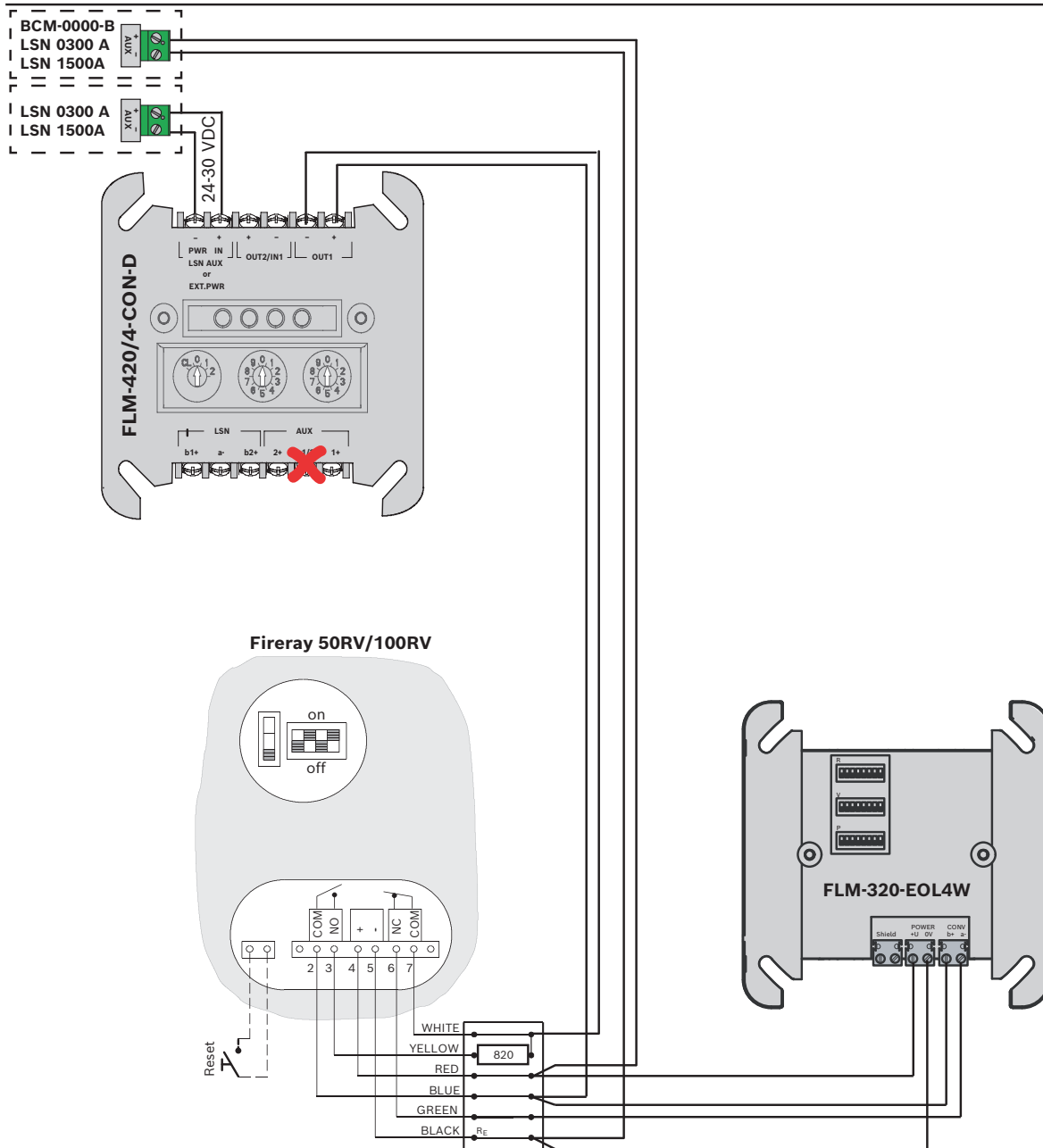




**Fireray 50RV
Fireray 100RV**



ELS



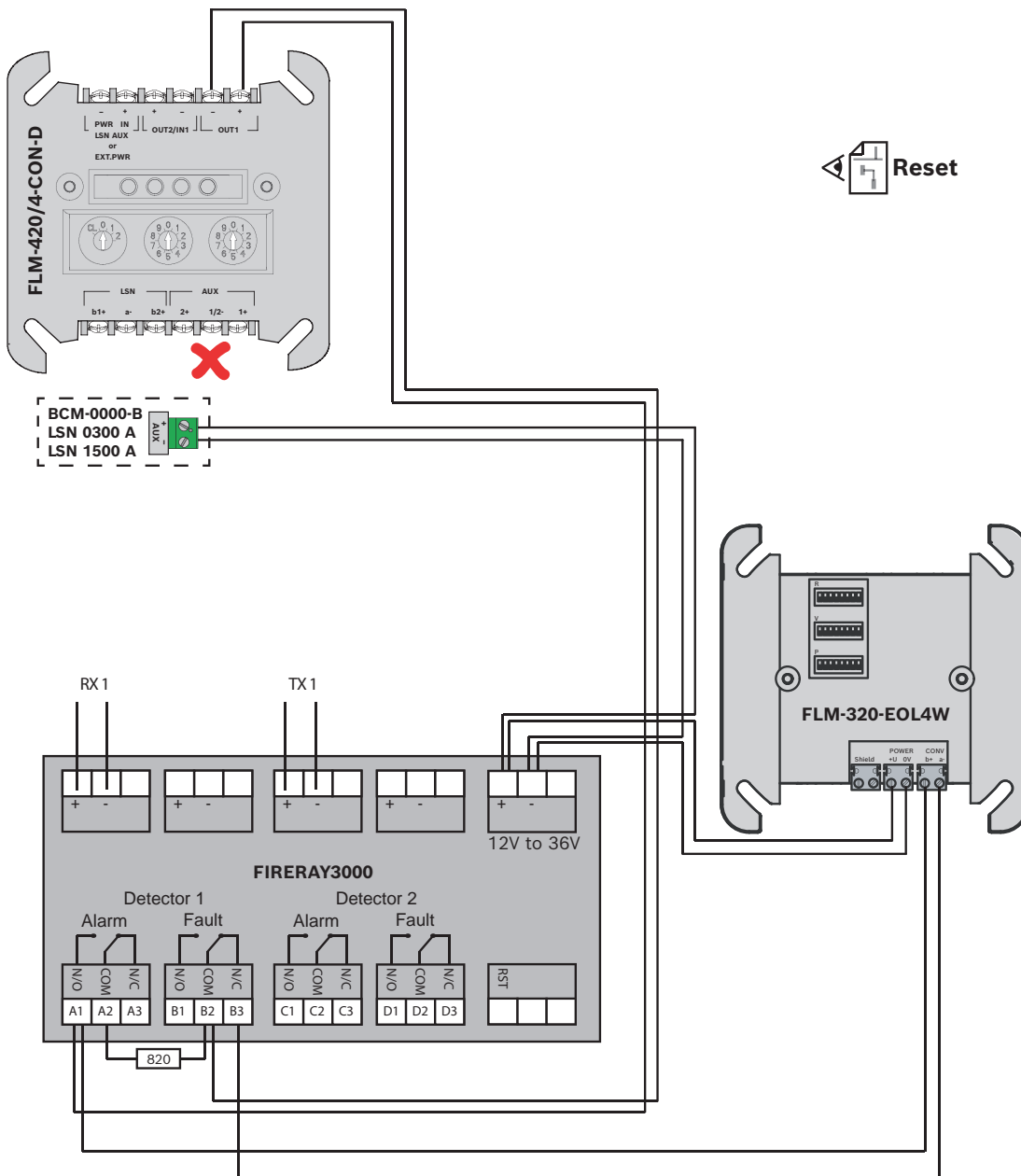


FIRERAY3000

1 x



ELS

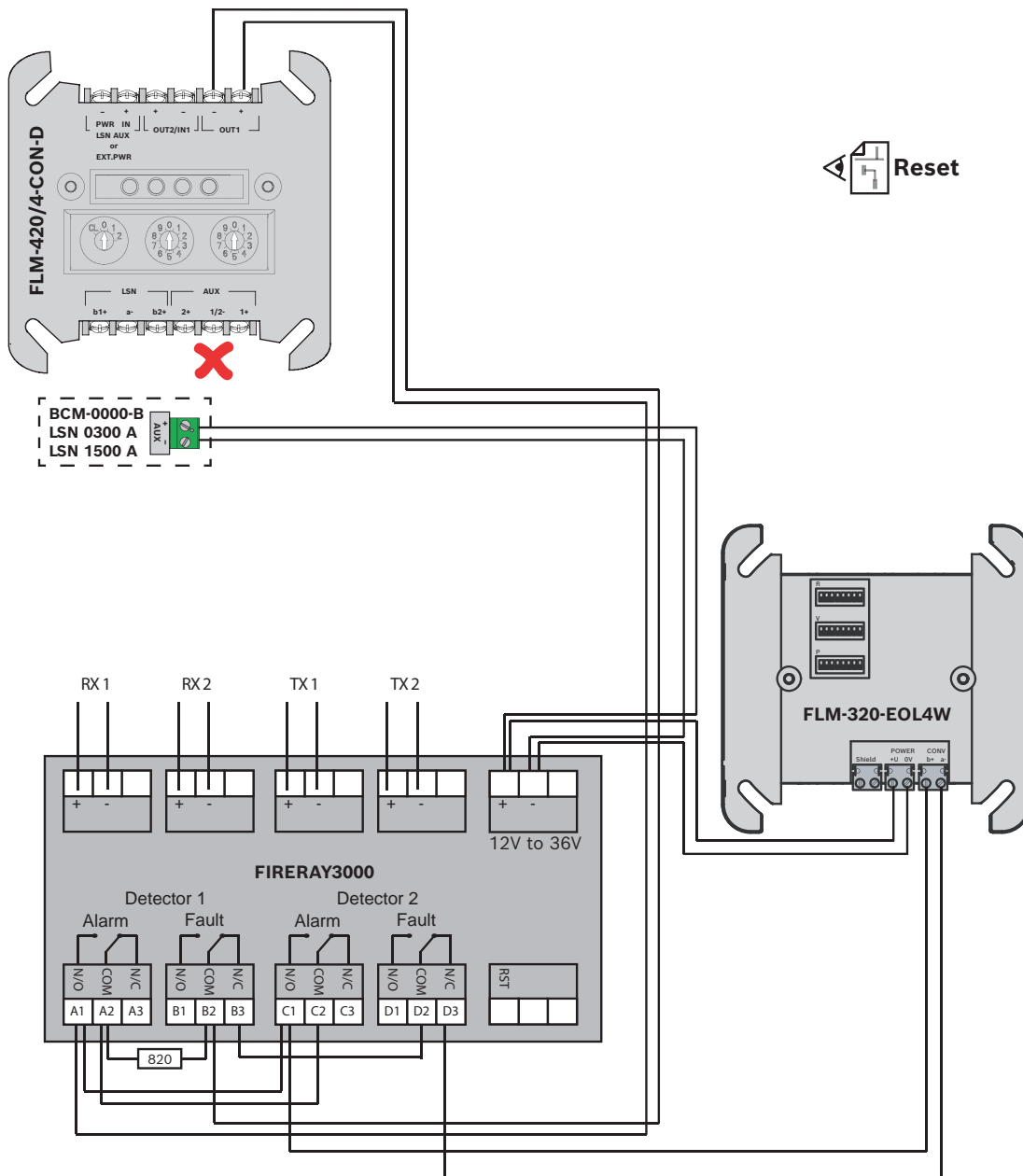




FIRERAY3000
2 x   **OUT1**



ELS

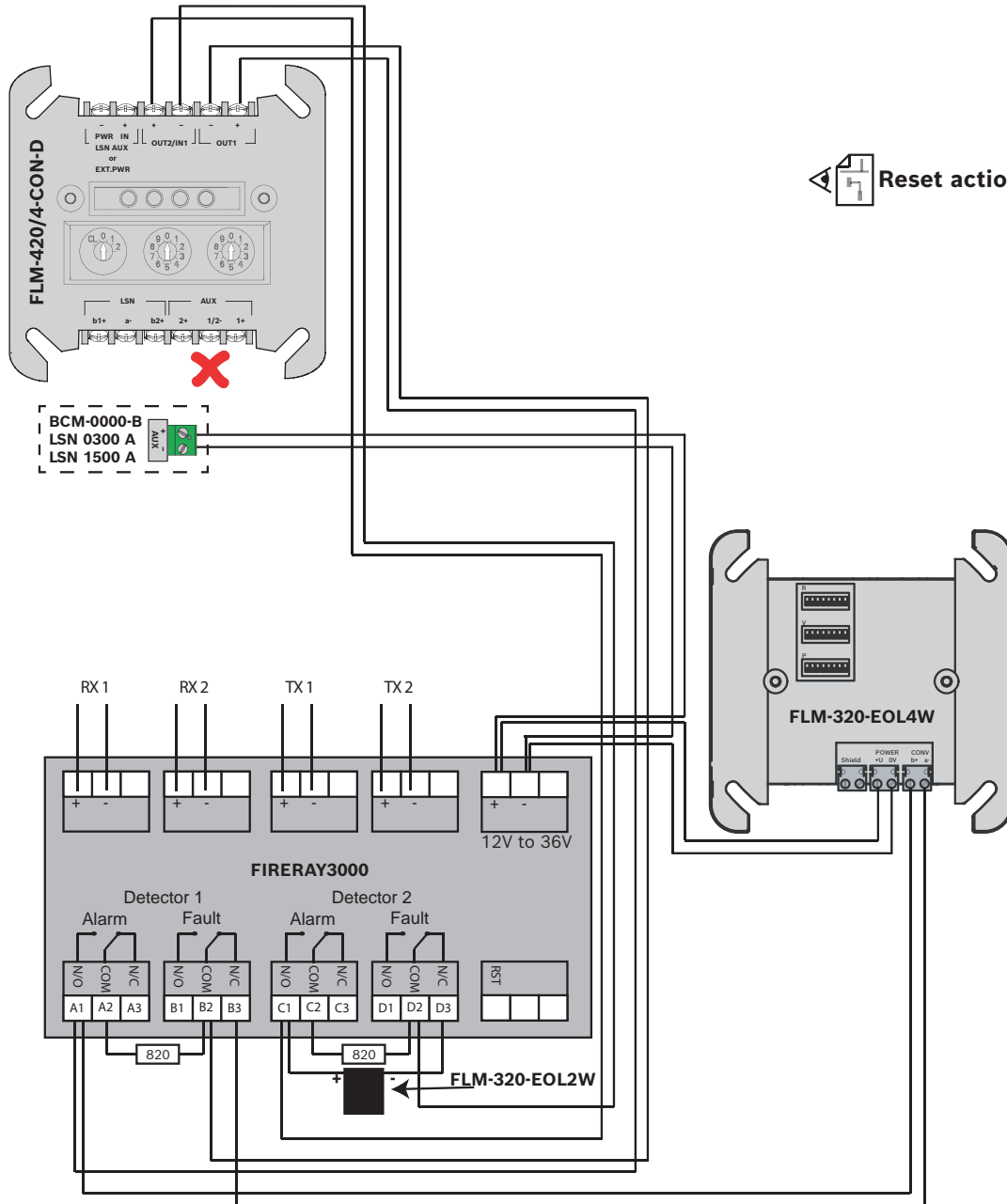




FIRERAY3000
2 x **OUT1+2**



ELS



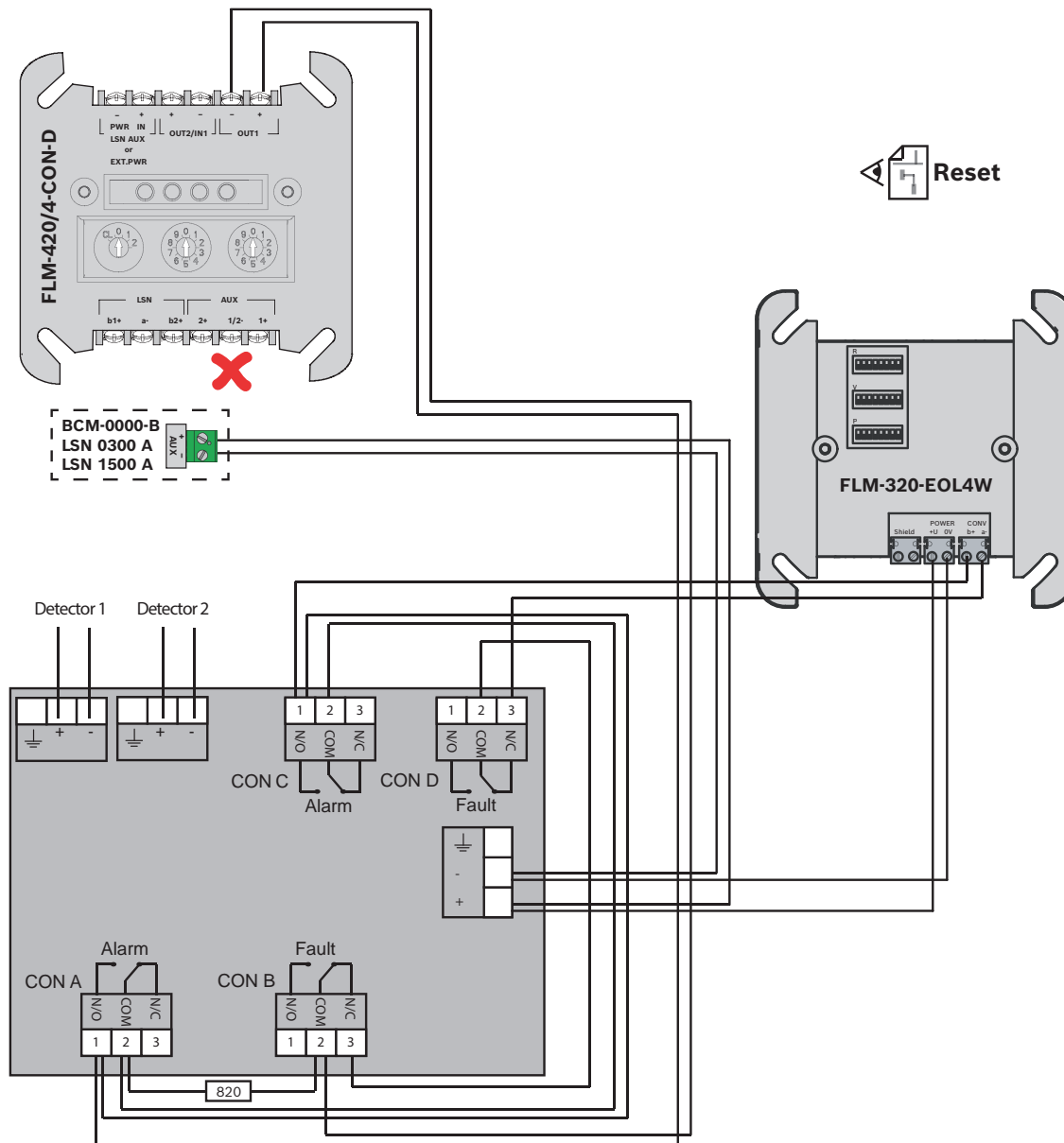


FIRERAY5000

2 x OUT1

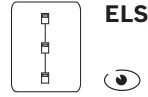


ELS



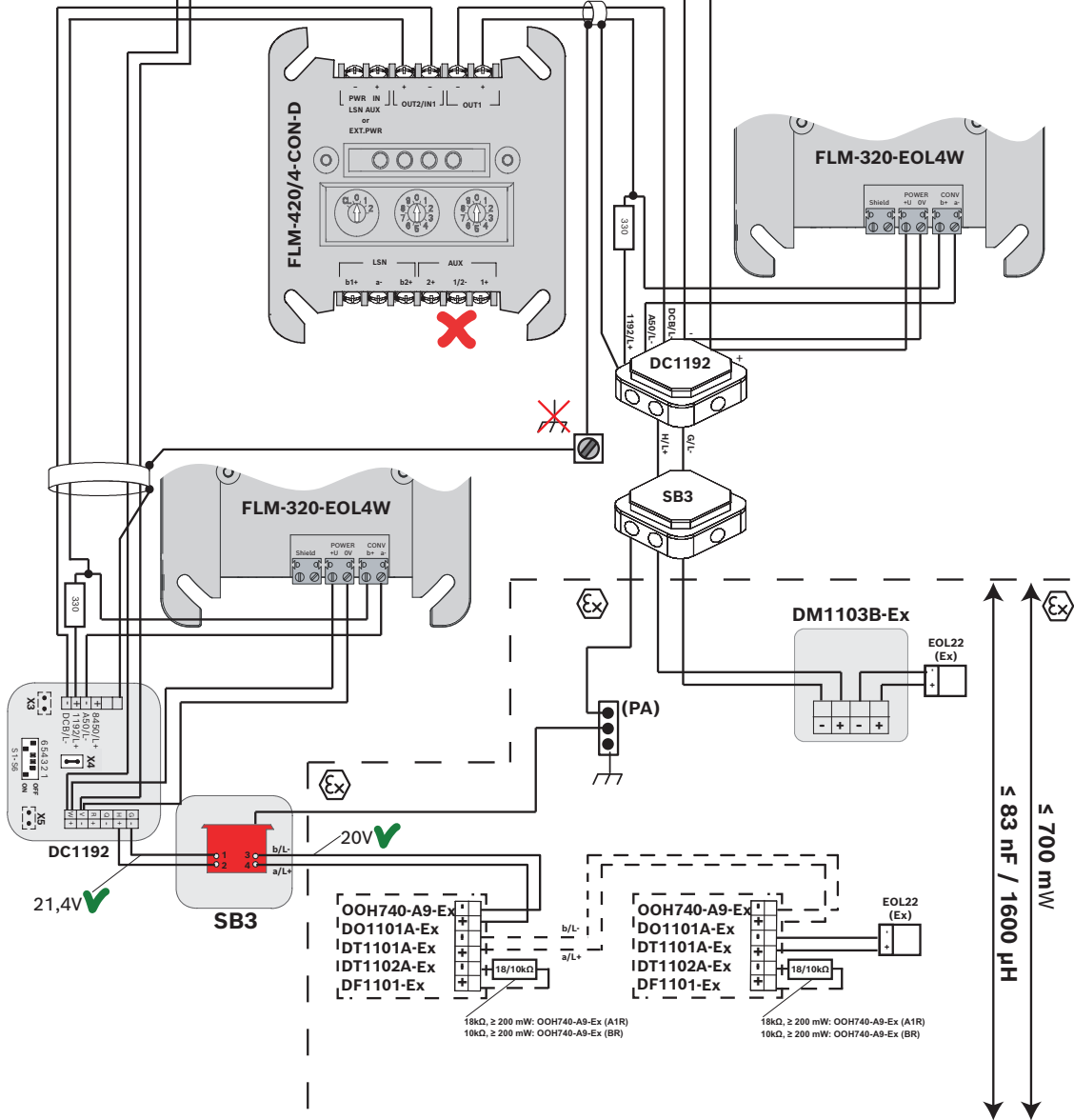


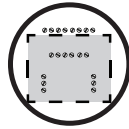
DC1192, SB3
 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex



BCM-0000-B
 LSN 0300 A
 LSN 1500 A

BCM-0000-B
 LSN 0300 A
 LSN 1500 A

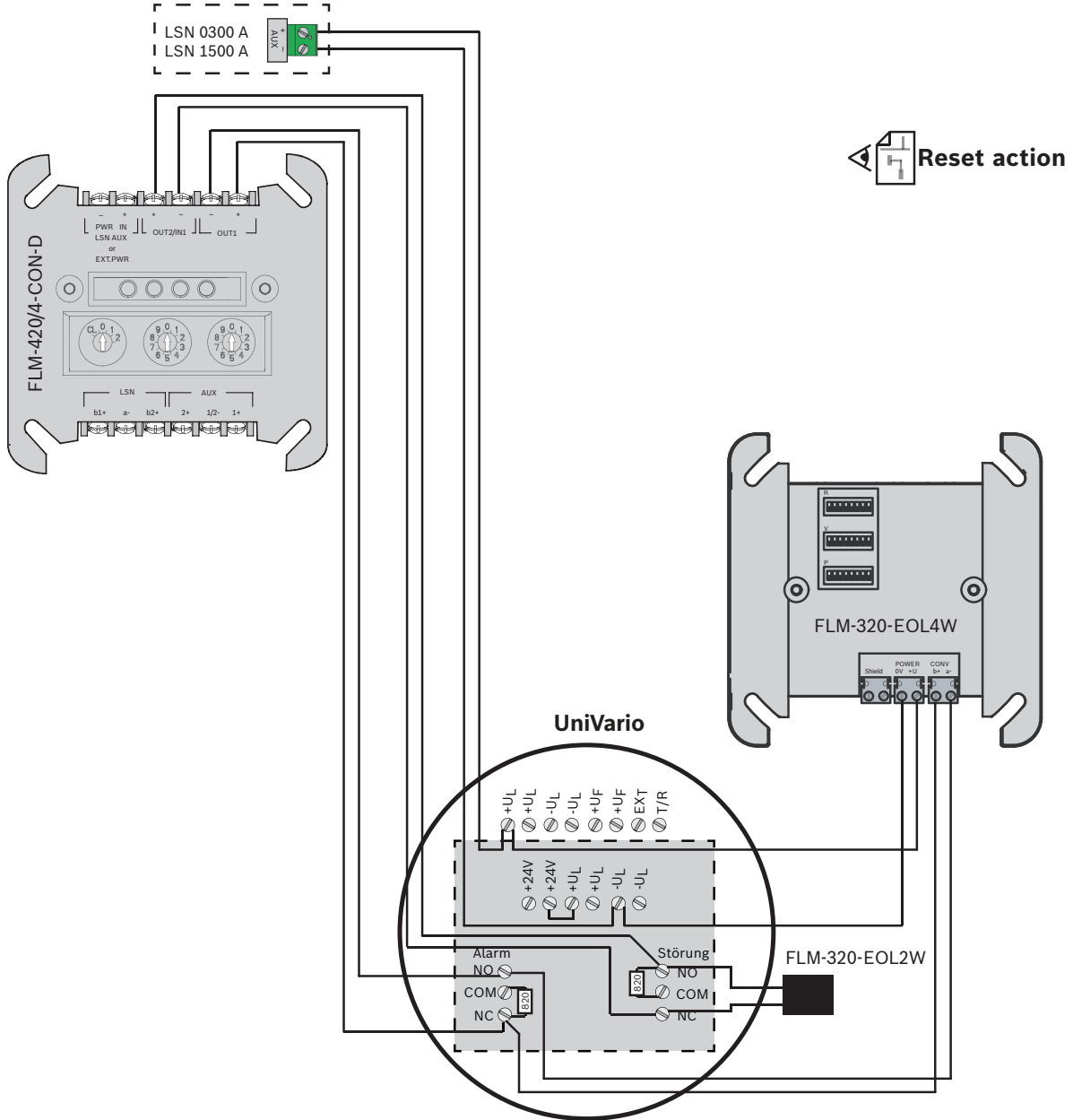




UniVario WMX5000
 UniVario FMX5000
 UniVario KMX5000



ELS



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