



BOSCH

AVENAR panel series

fr

Guide de câblage

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1 History

1.1 1.0

Creation

1.2 2.0

Changed

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

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

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

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

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

FLM-420-O1I1 -> LSN 0300

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

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

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

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

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

Loeschanlage -> RMH 0002 A (FB2, VKA2 + Montagesatz 10DA added)

Reset action

5 x FAT4000 (shield)

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

Deleted

37 x 2-wire cabling -> CZM 0004 A

2 Remarques

2.1 Contenu

Ce guide de câblage décrit la connexion entre les périphériques et la centrale incendie.

**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.

2.2 Fiche produit

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

2.3 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.

**Remarque!**

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

- Connectez le fil blindé du câble LSN sur le côté de la centrale au connecteur de terre fonctionnelle désigné. Le blindage des deux côtés (début et fin) de la boucle doit être connecté à la centrale
- Mettez en boucle le blindage de câble au niveau de tous les dispositifs LSN à l'aide des bornes fournies
- Aucune connexion supplémentaire du blindage de câble LSN n'est autorisée, ni aux connecteurs de terre où qu'ils se trouvent ni à aucune autre source électrique

2.4 Notes pour l'utilisateur

Le guide de câblage est structuré comme suit :

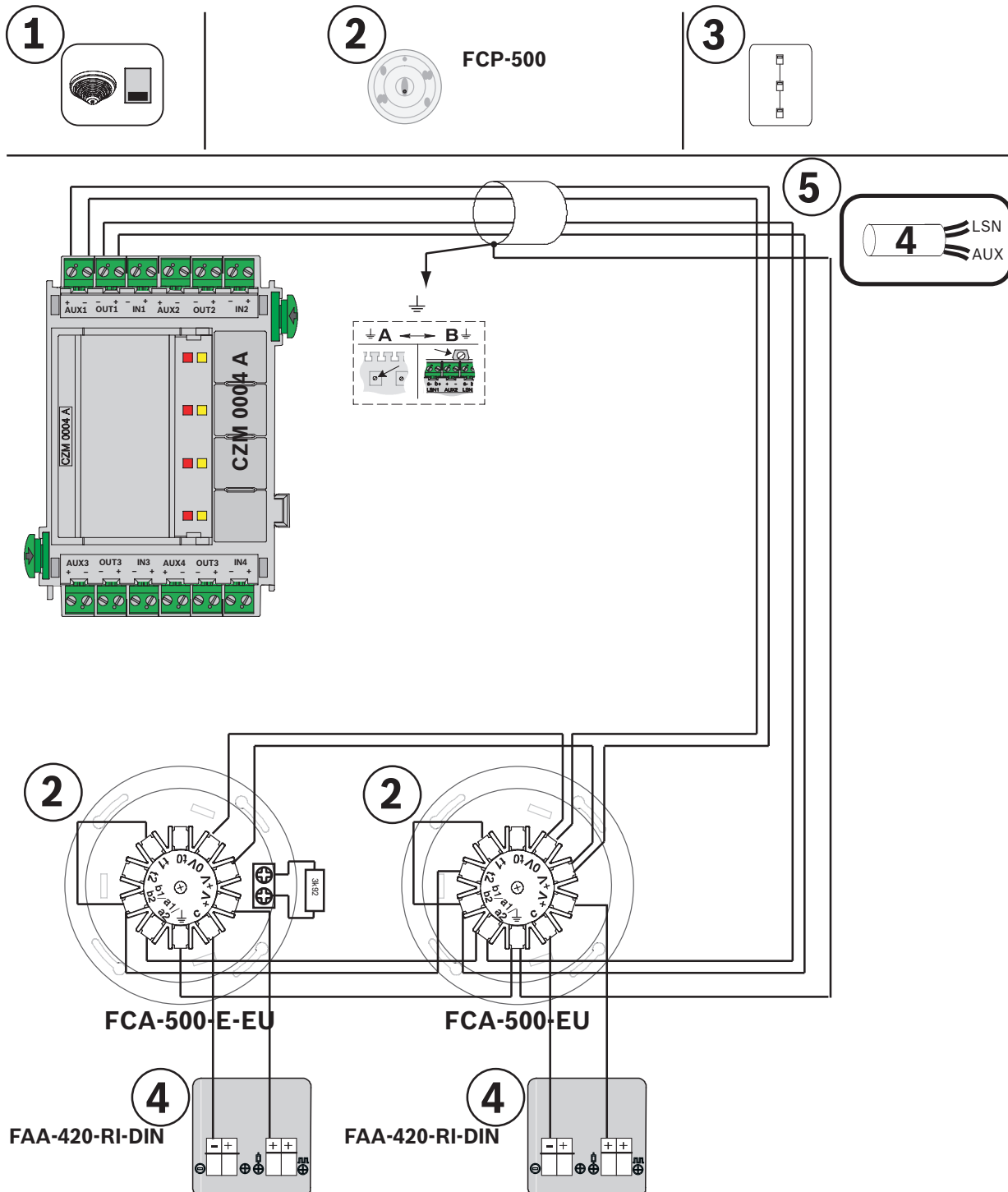
- Le chapitre Câblage comporte une partie pour chaque dispositif auquel est connecté un périphérique. Un schéma de câblage illustre la connexion directe entre les périphériques (aucune connexion en cascade). Le blindage n'est généralement pas représenté dans les schémas de câblage. L'exemple de câblage ci-dessous présente le blindage.

- 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 :











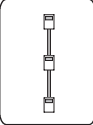
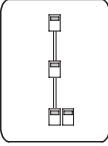
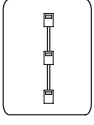
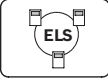


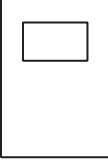




1	Marques de chapitre (<i>Marques de chapitre, Page 7</i>)
2	Périphérique connectable
3	Symboles de connexion (<i>Symboles de connexion, Page 7</i>)
4	Composants optionnels
5	Alimentation et câblage (<i>Alimentation et câblage, Page 8</i>)

2.4.1 Marques de chapitre

	Détecteurs auto.		Panneaux de commande et d'affichage		Imprimante
	Alimentation		Modules fonctionnels		Équipement de détection d'incendie
	Coupleurs		Systèmes d'extinction		Déclencheurs manuels d'alarme incendie
	Dispositifs de signalisation		Commandes de portes		Unités de transmission
	Fonctionnement en réseau				

2.4.2 Symboles de connexion

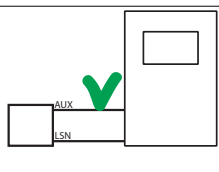
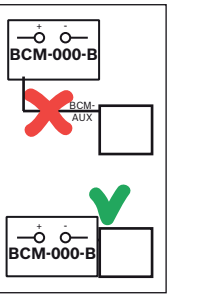






 	Connexion surveillée/ non surveillée d'un périphériques conventionnel ou circuits de dispositif de notification conventionnels surveillés/non surveillés. (Résistance de fin de ligne dans CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, la connexion RMH 0002 A ou les connexions à contact sec avec module d'interface.)	 	Dans cette connexion de périphérique conventionnel, il est possible de connecter une ligne de feedback. / Le symbole barré signifie qu'une ligne de feedback n'est pas nécessaire ou recommandée. (connexions FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A) Une ligne d'entrée peut aussi être utilisée comme ligne de feedback (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1...).		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	Ce câblage est conforme à la norme 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. Un récapitulatif de tous les câblages enrichis de modules EOL supplémentaires pour la surveillance ouverte progressive figure dans le chapitre EOL. 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.		Ce câblage en boucle est conforme à la norme VdS 2543. Il propose ELS. Aucun module EOL n'est nécessaire.		Synchronisation
	Lieux présentant un risque d'explosion		Centrale		Centrale autonome
	Centrale autonome avec redondance		Non autorisé		Pour les socles de détecteur : Le câblage est valable uniquement pour le socle de détecteur dans lequel ce dernier est installé.
-----	Câblage optionnel	_____	Câblage obligatoire	EN 54-2, DIBT etc.	Si la conformité à cette norme est requise, utilisez le câblage spécifié.

2.4.3 Alimentation et câblage



Alimentation électrique supplémentaire

	<p>Alimentation via la centrale L'alimentation peut être séparée de l'élément.</p>
	<p>Alimentation via la centrale / un bloc d'alimentation externe L'élément est alimenté par un module BCM-000-B. L'élément doit être encastré avec le boîtier du produit contenant le module BCM-000-B.</p>
 	<p>Le câblage est une connexion à 4 fils. Sinon, il s'agit d'une connexion à 2 fils.</p>
 	<p>Le câblage est une connexion à 2 fils.</p>
	<p>Consultez le câblage dans le présent manuel.</p>
	<p>Consultez la documentation technique relative au périphérique connecté.</p>

2.5 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	
Marron	1	1	1	10^1	$\pm 1\%$
Rouge	2	2	2	10^2	$\pm 2\%$
Orange	3	3	3	10^3	$\pm 0.05\%$
Jaune	4	4	4	10^4	$\pm 0.02\%$
Vert	5	5	5	10^5	$\pm 0.5\%$
Bleu	6	6	6	10^6	$\pm 0.25\%$

Couleur	1. bande	2. bande	3. bande	4. bande (multiplicateur)	5. bande (tolérance)
Violet	7	7	7	10^7	$\pm 0.1\%$
Gris	8	8	8	10^8	$\pm 0.01\%$
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 %.

3

Câblage



FPP-5000 alimentation, Page 12

DIBT, Page 14

Modules fonctionnels, Page 41

BCM-000-B, Page 42

CZM 0004 A, Page 44

ENO 0000 A/B, Page 48

LSN 0300 A, Page 55

NZM 0002 A, Page 90

RMH 0002 A, Page 106

IOS 0020 A, Page 109

FPE-5000-UGM, Page 112

Modules d'interface, Page 113

FLM-420-4/CON-D/S, Page 114

FLM-420-NAC-D/S, Page 139

FLM-420-RLE-S, Page 152

FLM-420-RLV1-E, Page 153

FLM-420-RLV8-S, Page 154

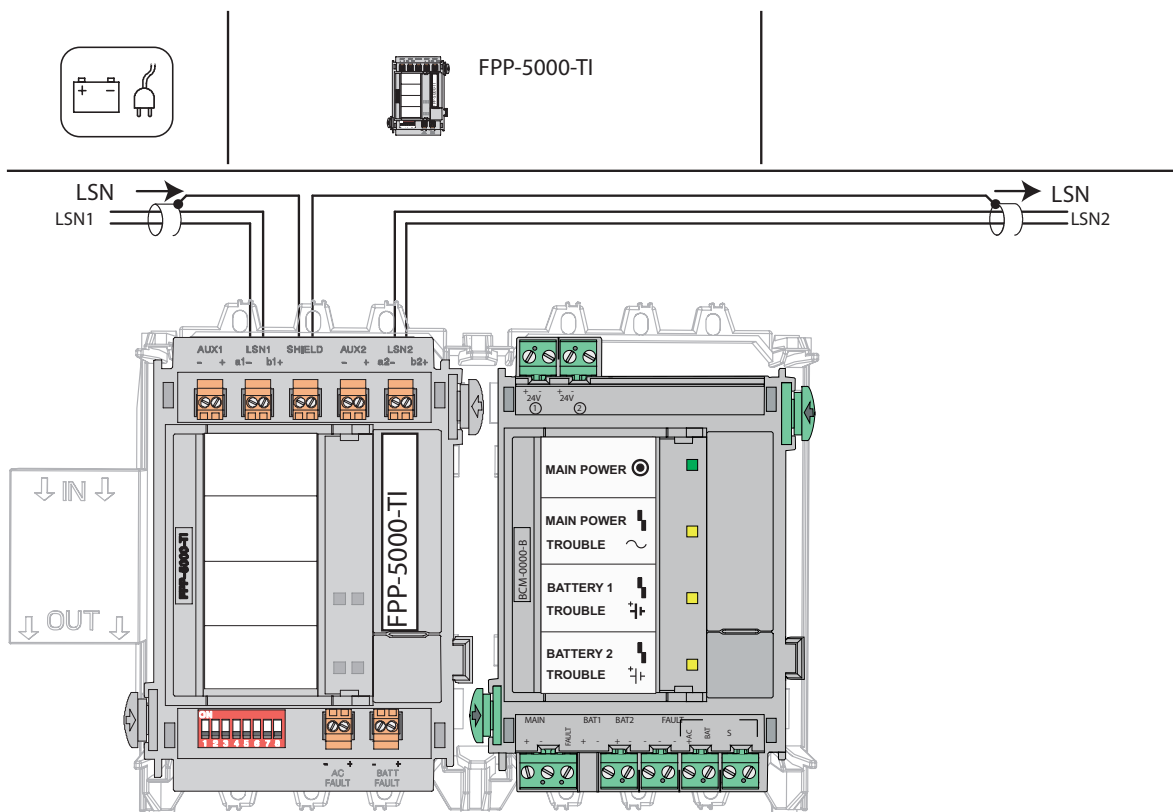
FMF-ADP-FBF/FMF-ADP-TTY, Page 155

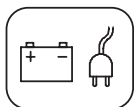
EOL, Page 157

LSN 0300 A, Page 158

FLM-420/4-CON-S/D, Page 200

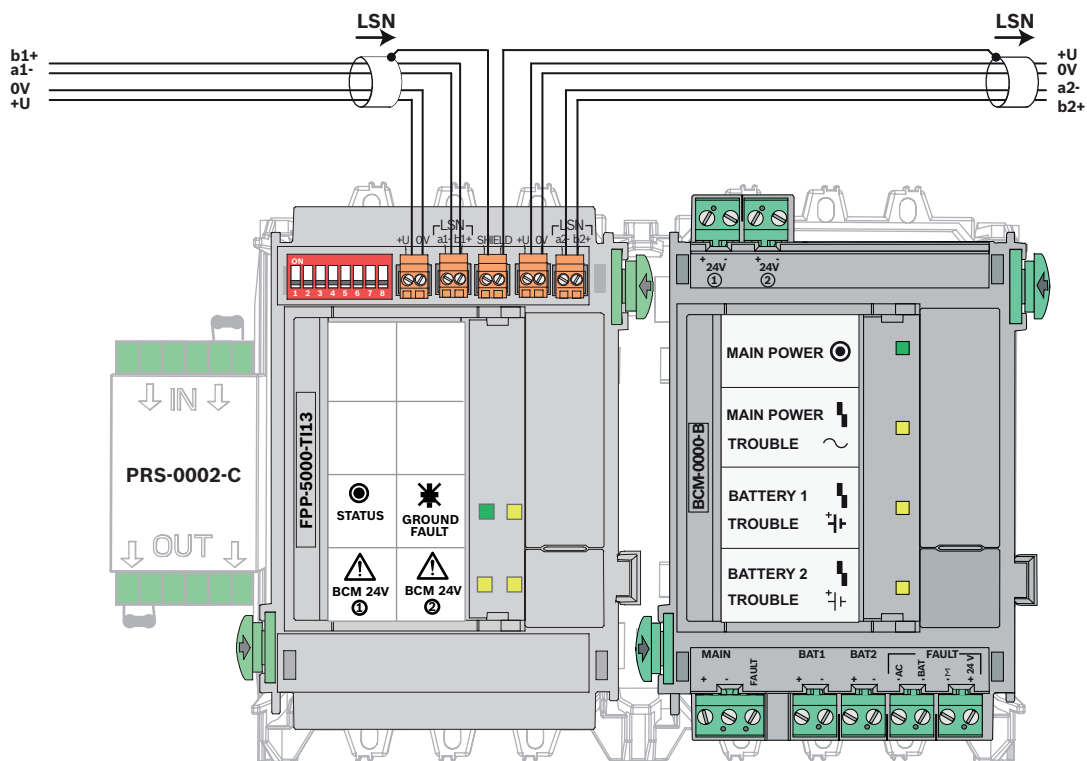
3.1 FPP-5000 alimentation





FPP-5000-TI13

ELS VdS 2489

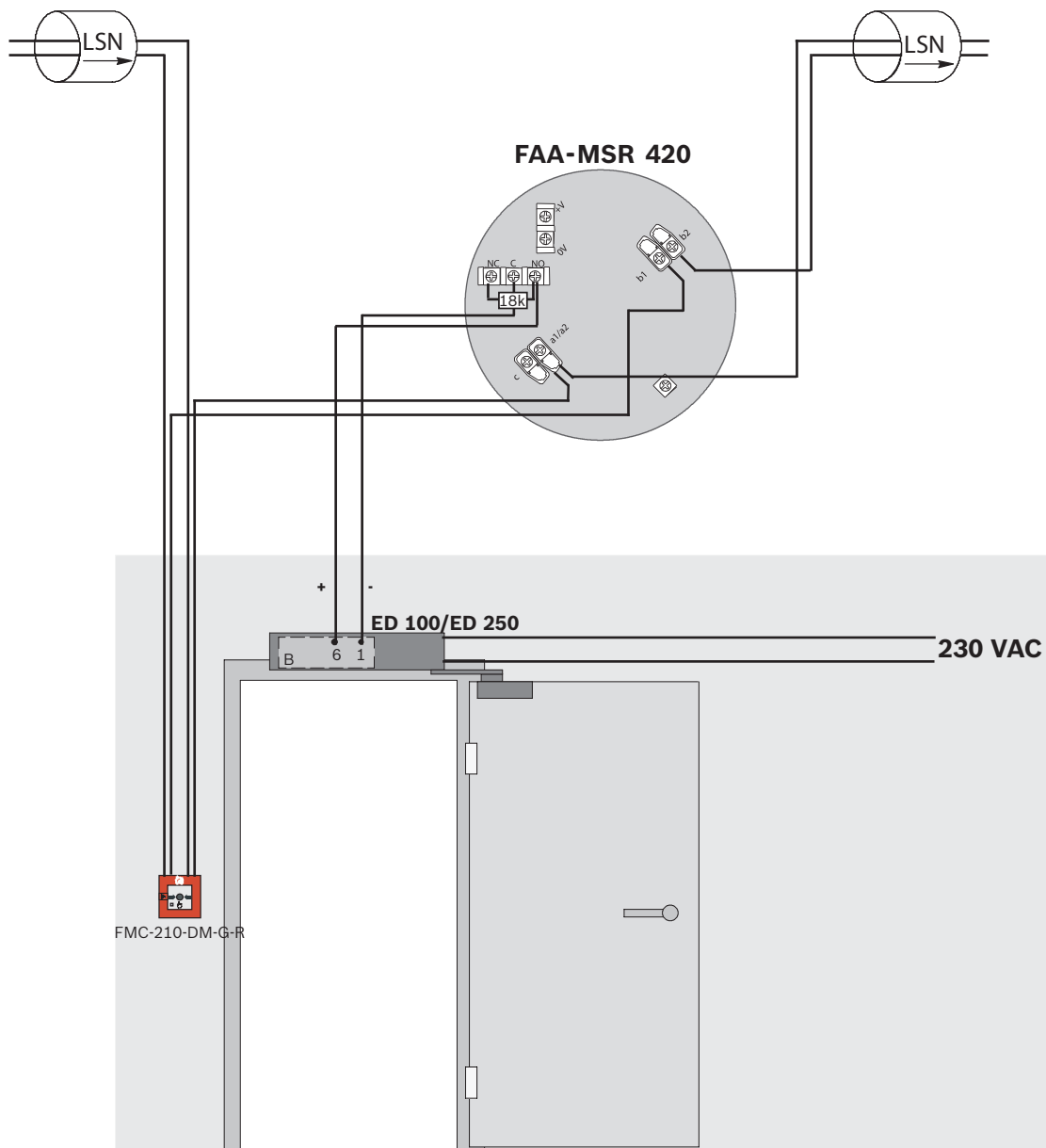


3.2 DIBT



ED 100
ED 250
(+Upgrade Card B)

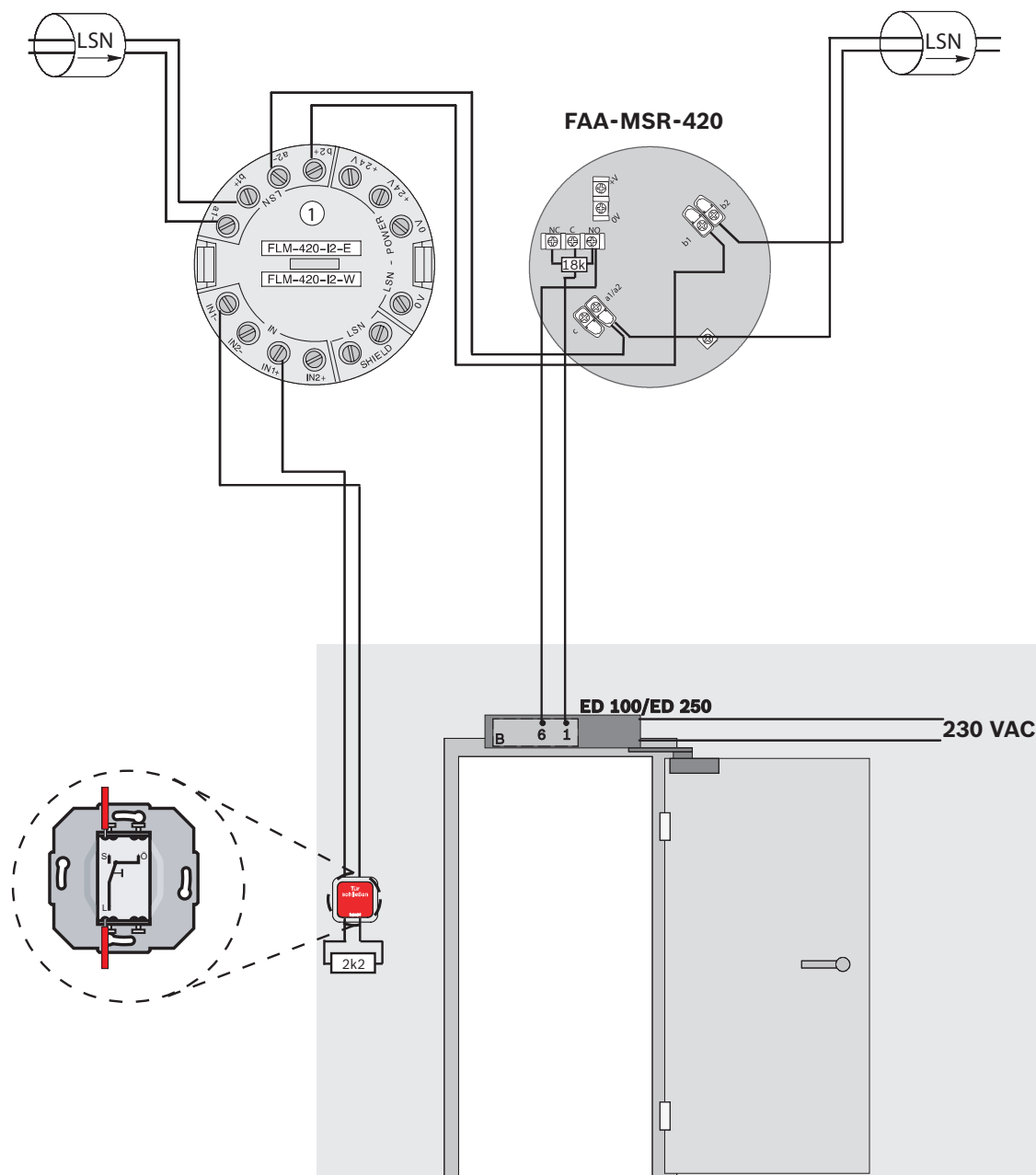
DIBT





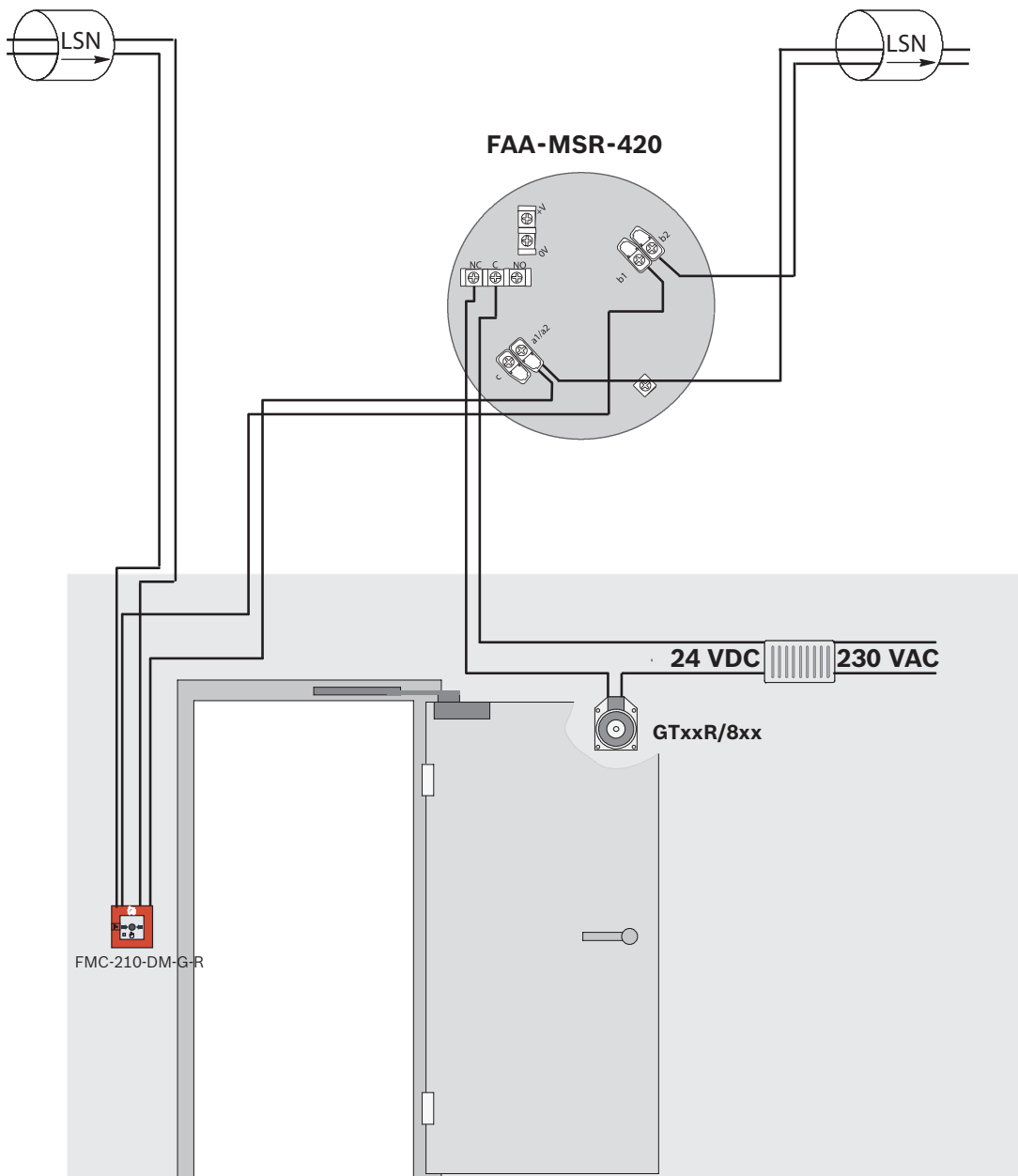
ED 100
ED 250
(+Upgrade Card B)

DIBT





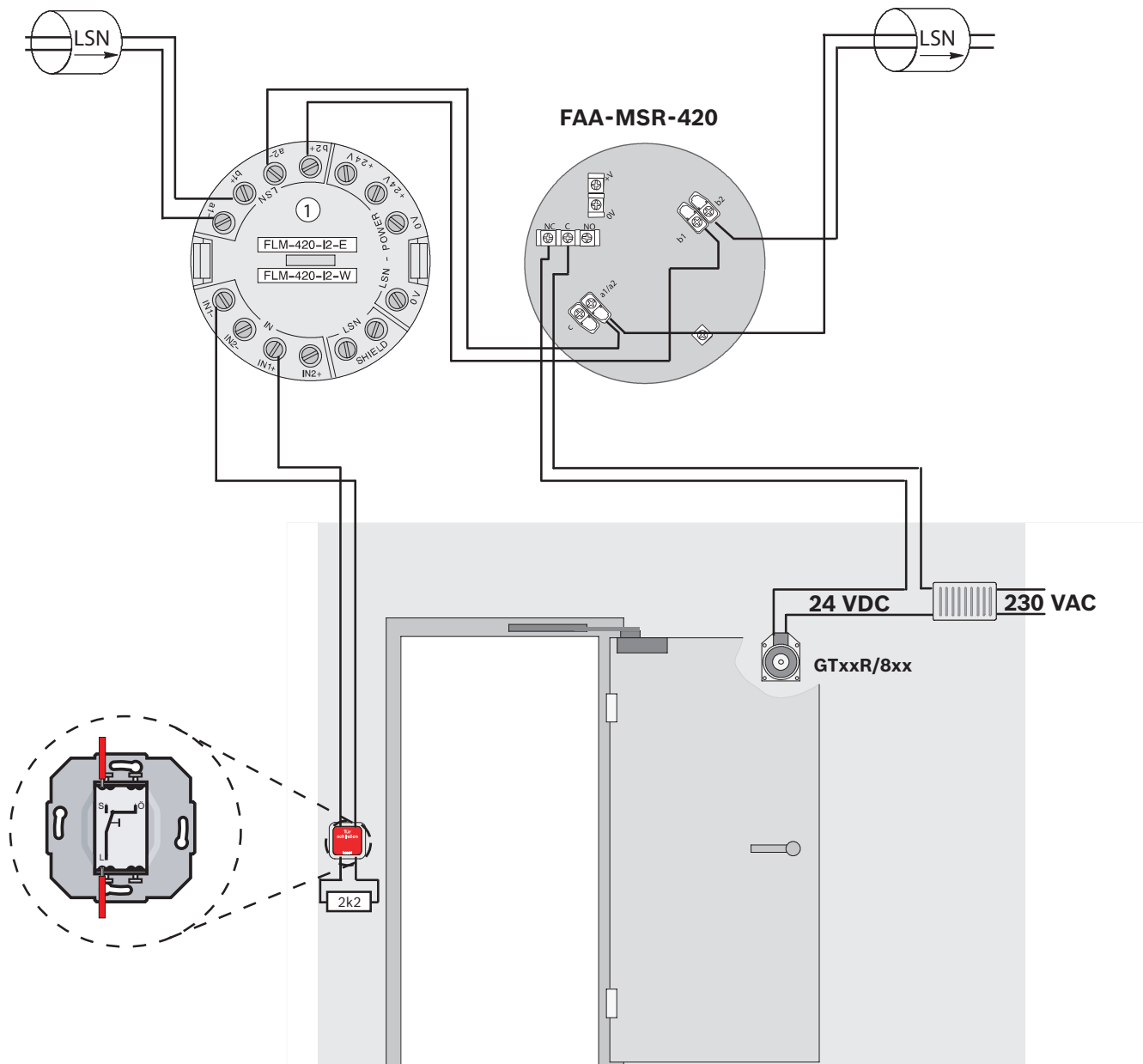
DIBT





GT xx R
8 xx

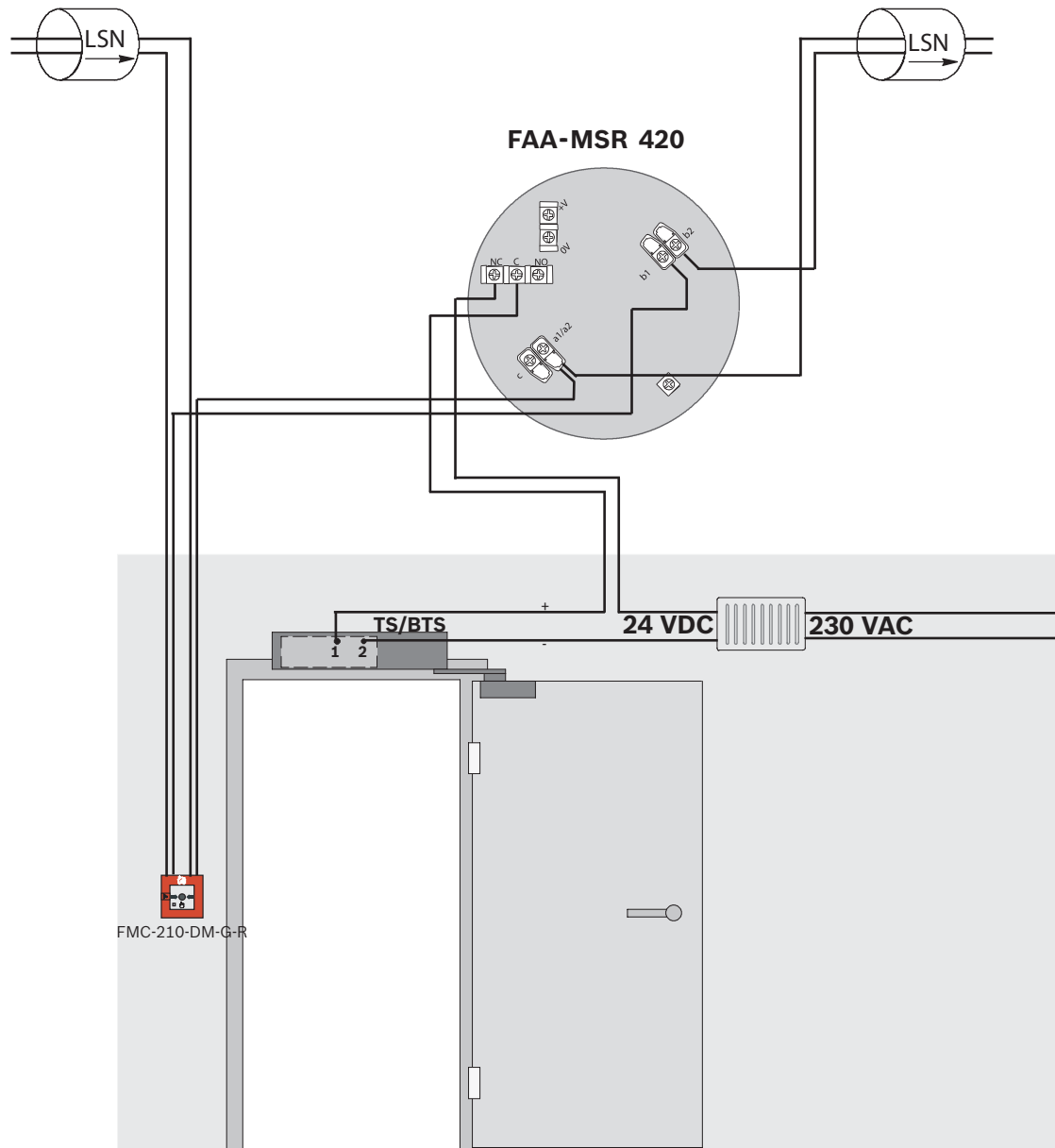
DIBT





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

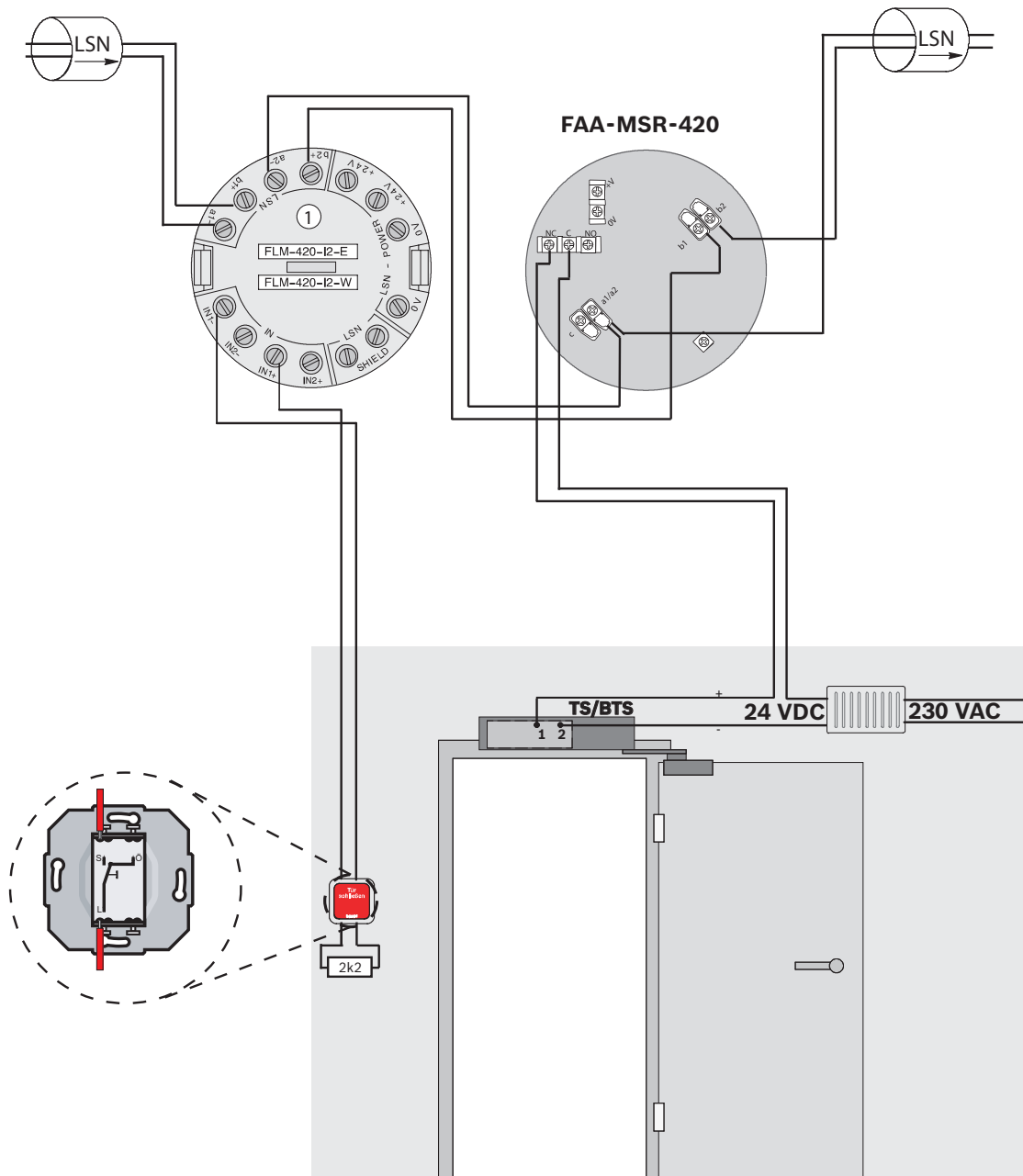
DIBT





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

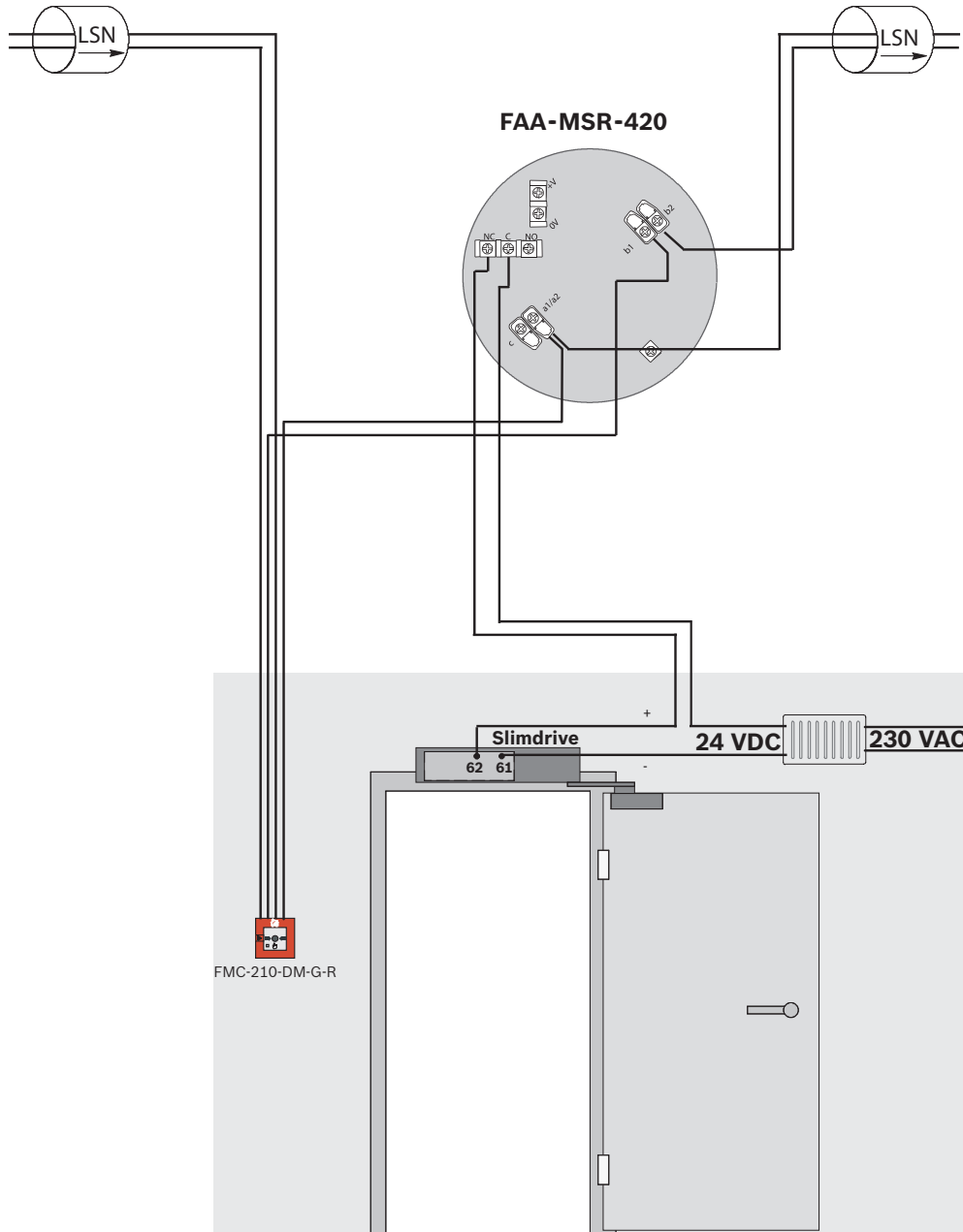
DIBT





Slimdrive EMD-F/EMD F-IS

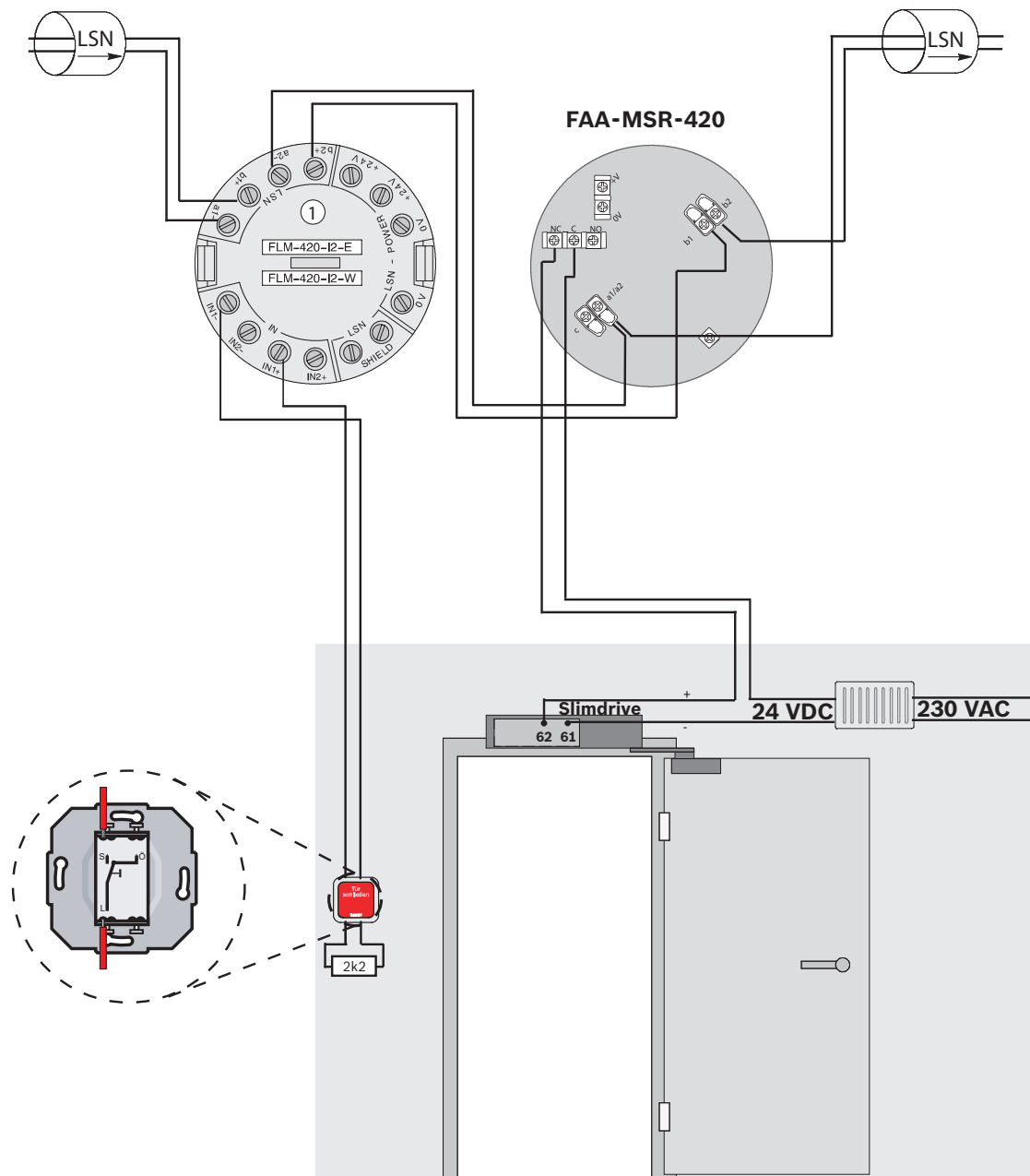
DIBT





Slimdrive EMD-F/EMD F-IS

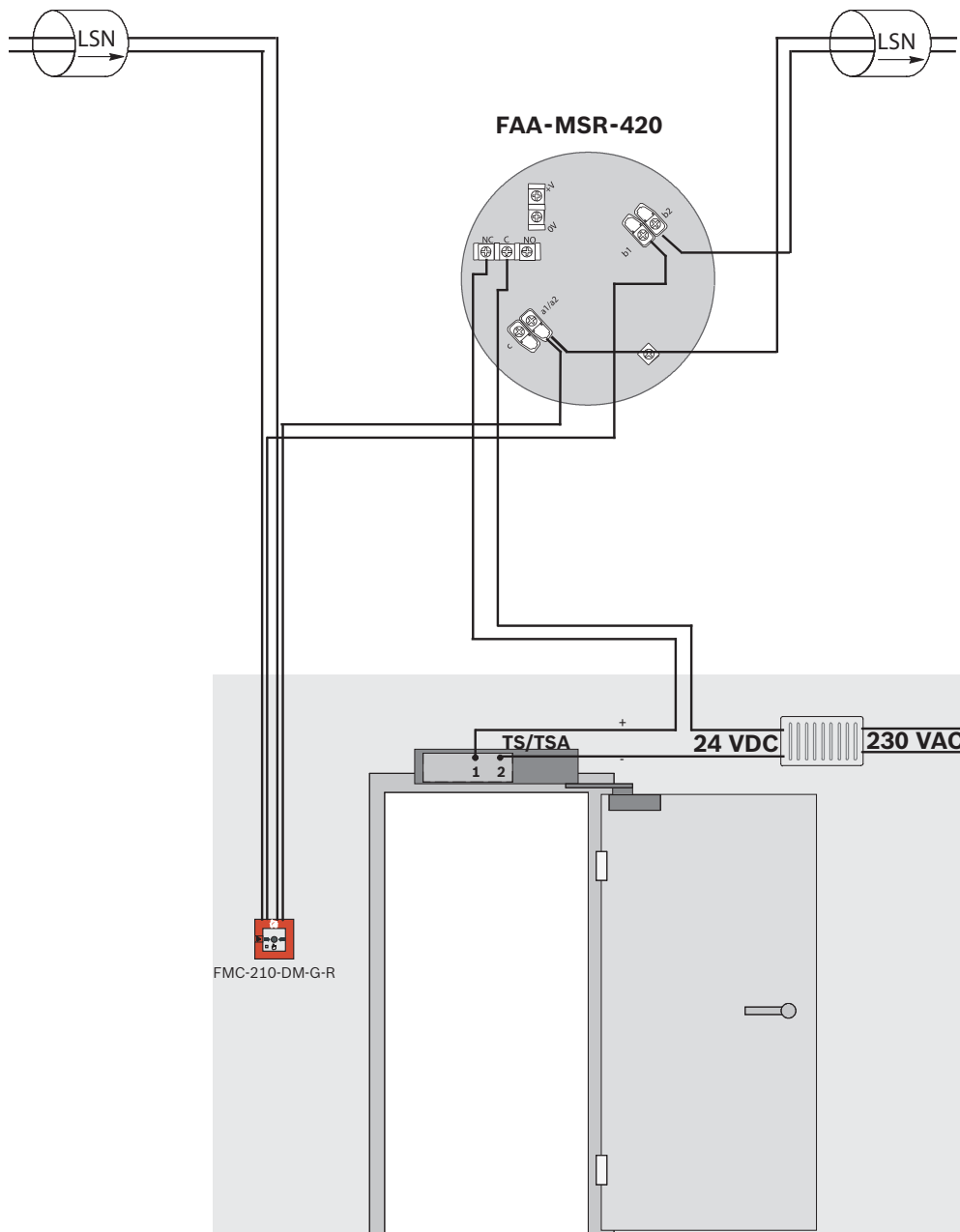
DIBT





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

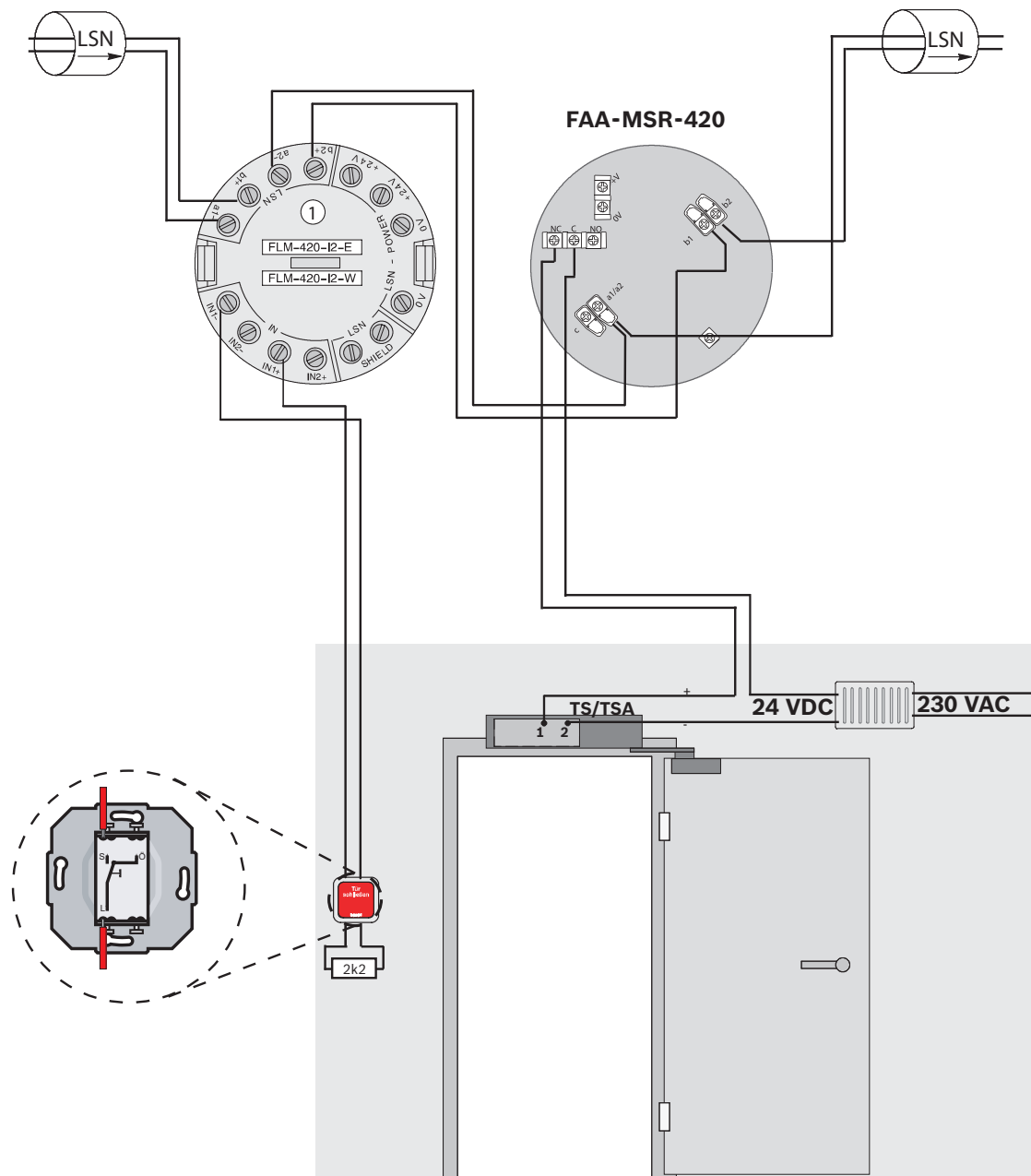
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 TS 550 E
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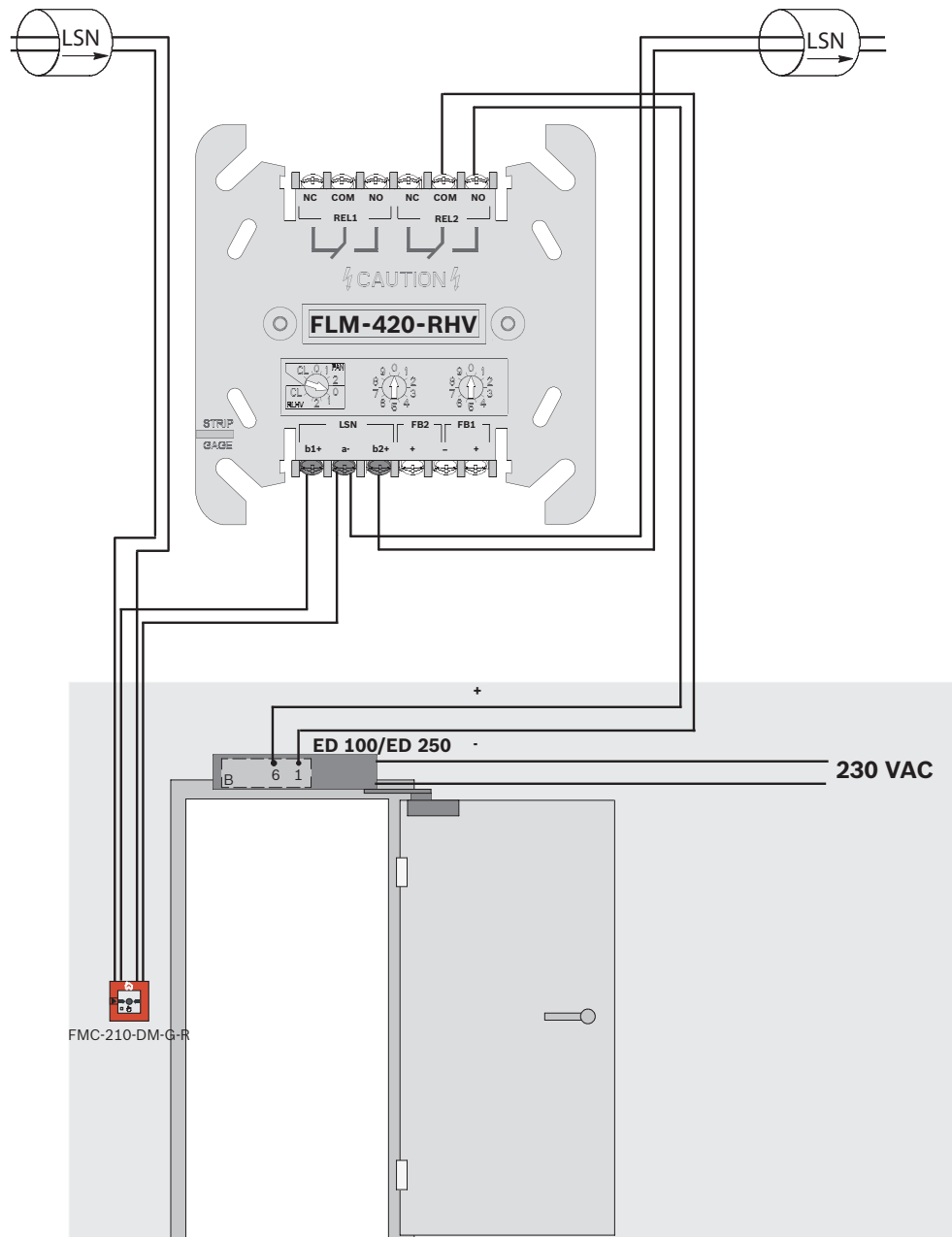
DIBT





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

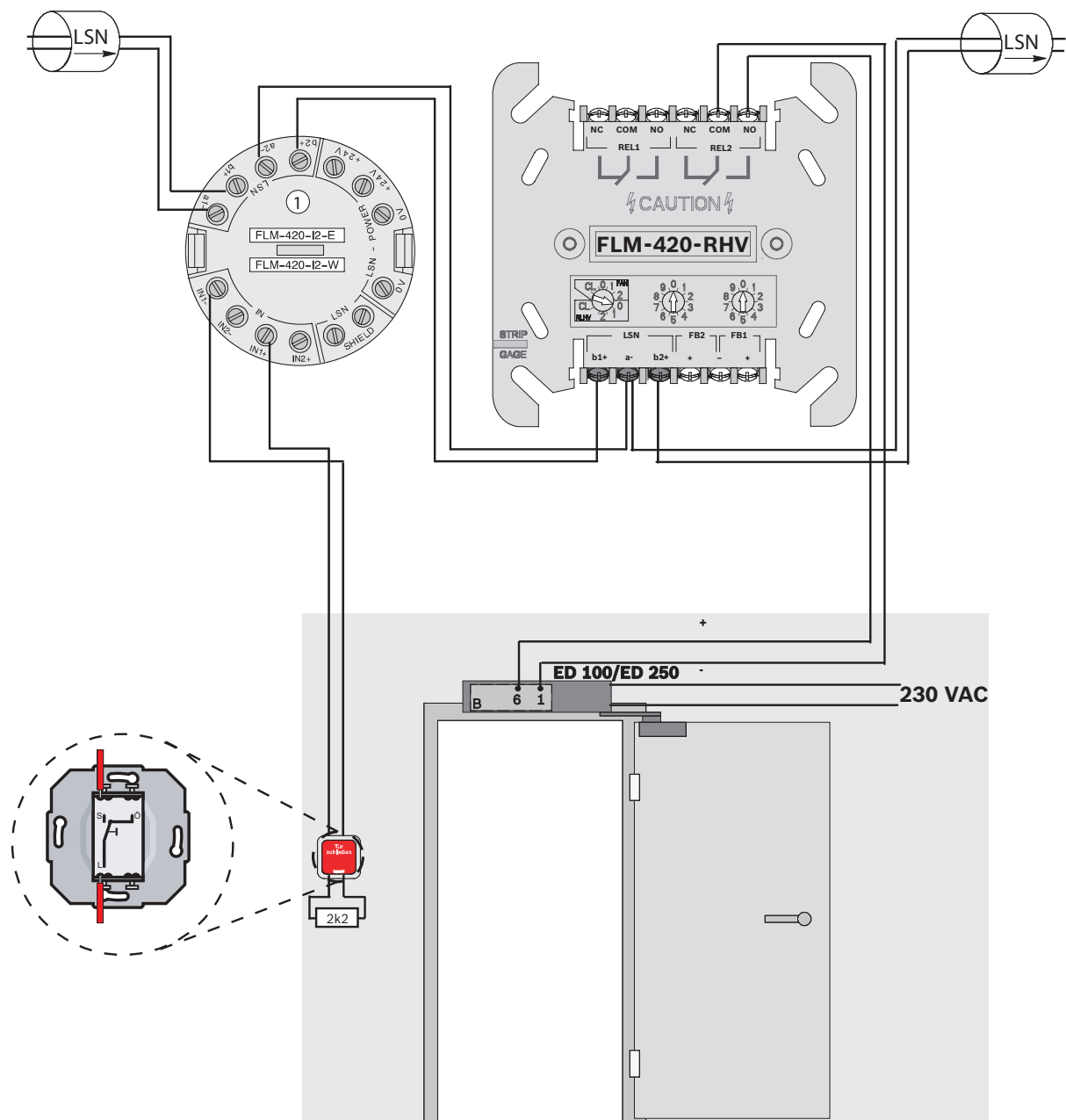
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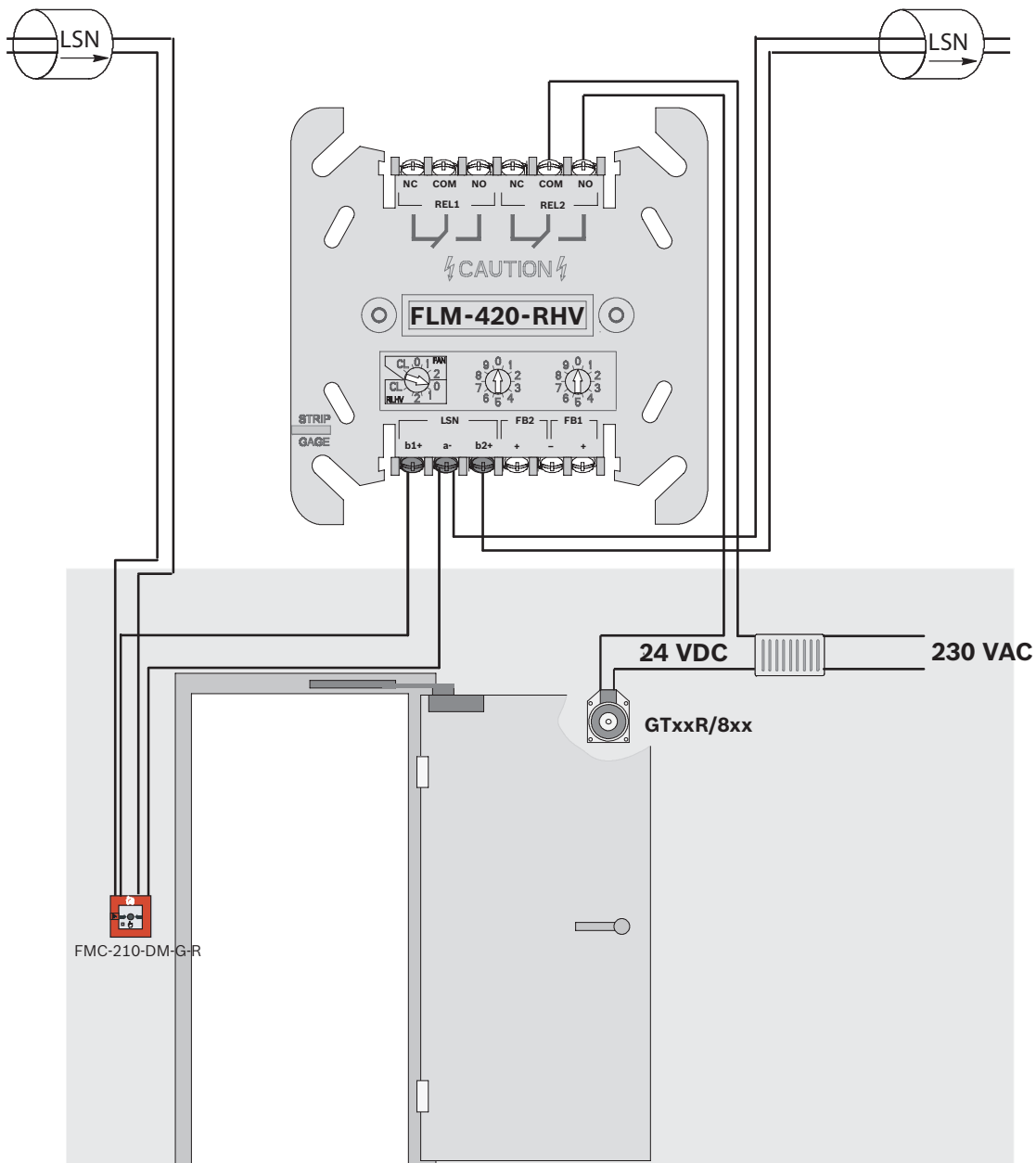
ED 100
ED 250
(+Upgrade Card B)

DIBT





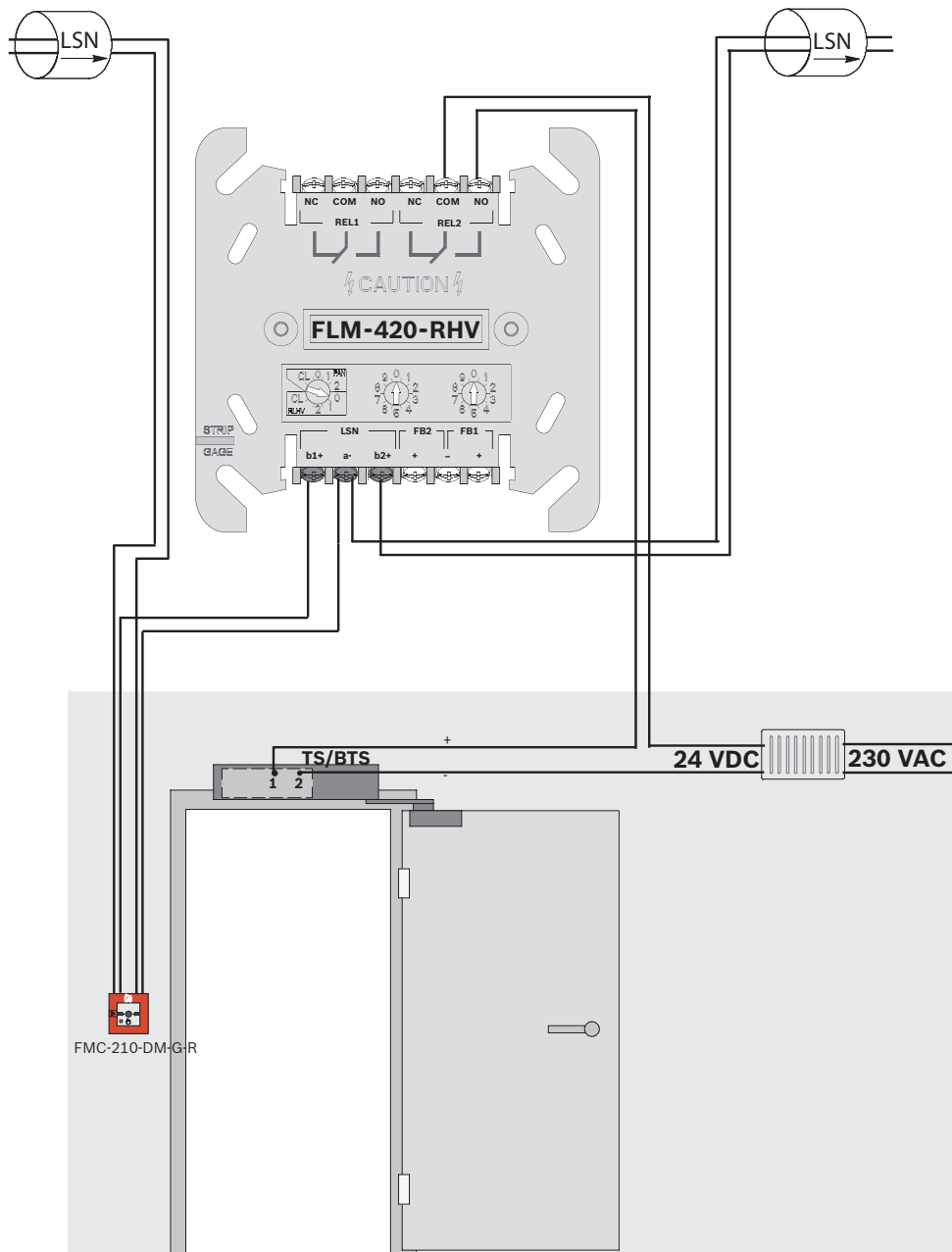
DIBT





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

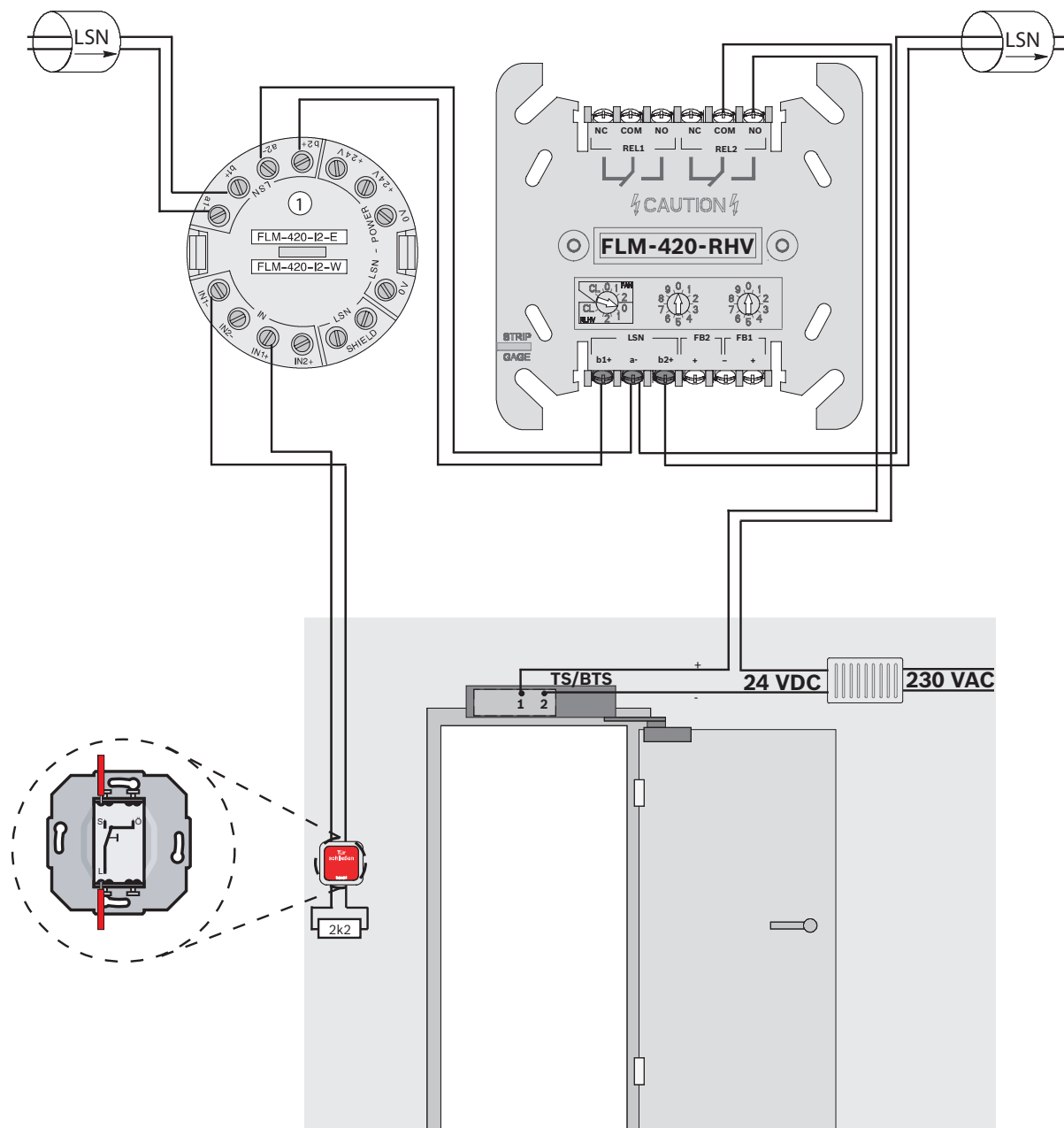
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 TS 93 EMF
 TS 93 GSR
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 BTS 80 FLB

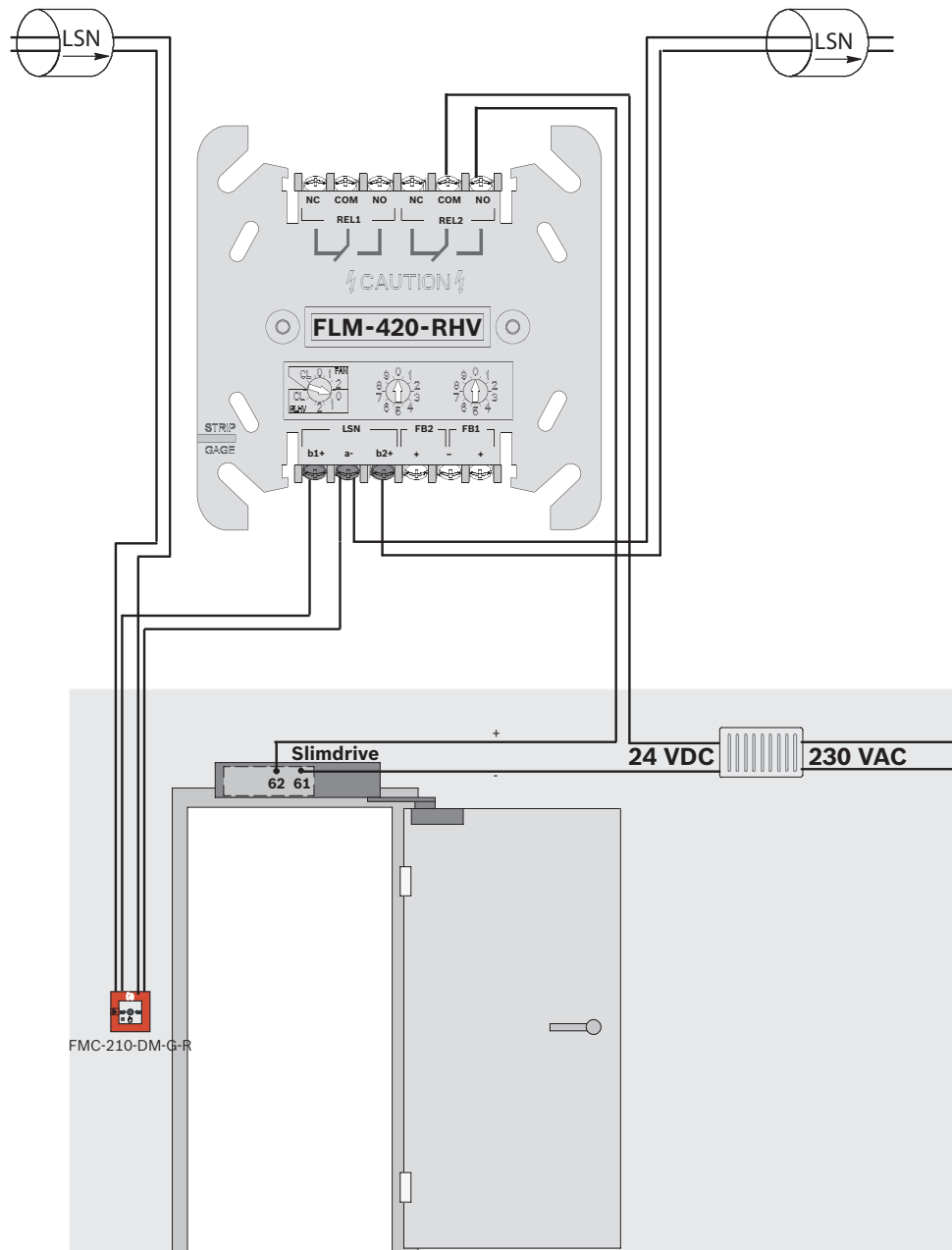
DIBT





Slimdrive EMD-F/EMD F-IS

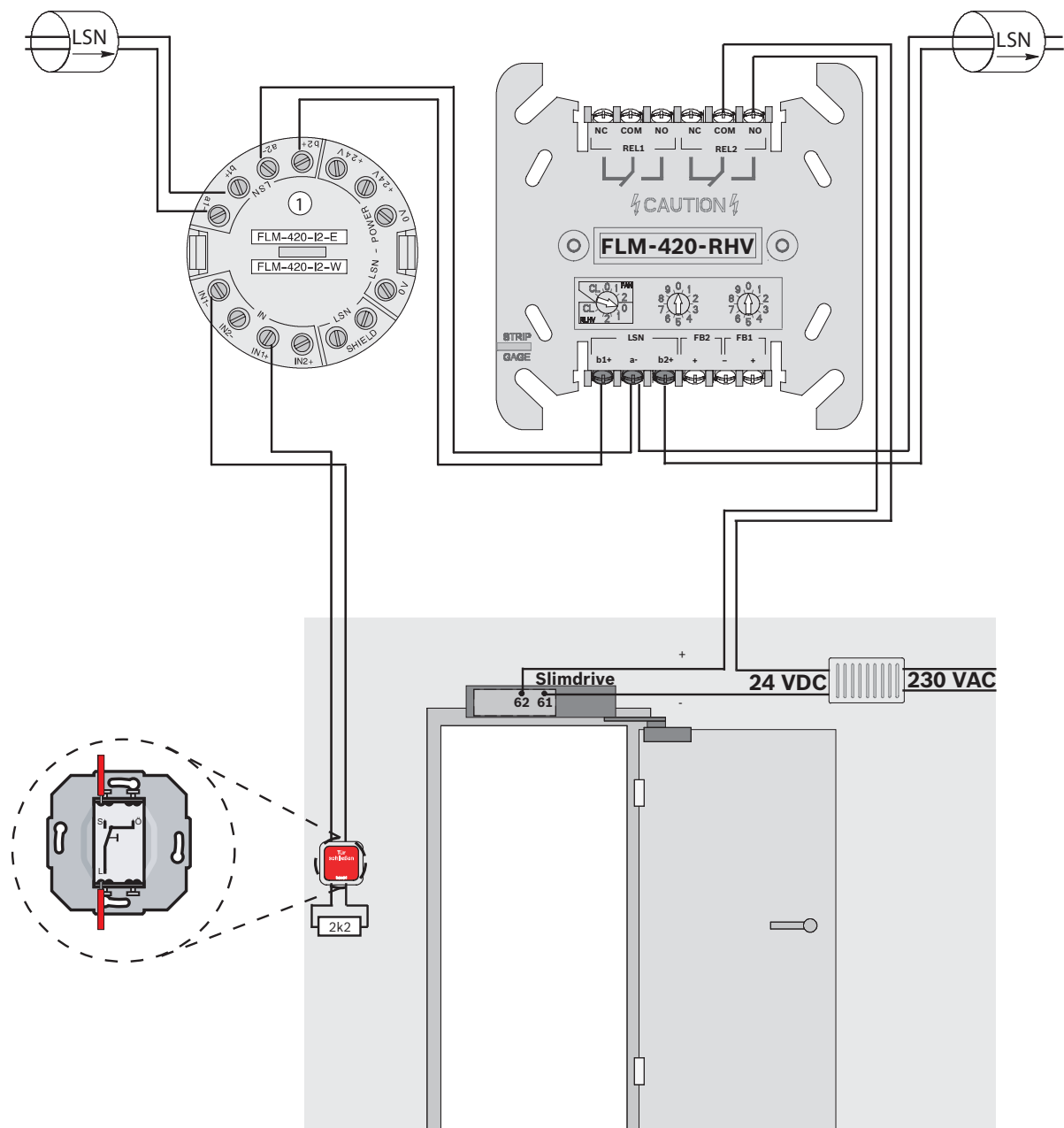
DIBT





Slimdrive EMD-F/EMD F-IS

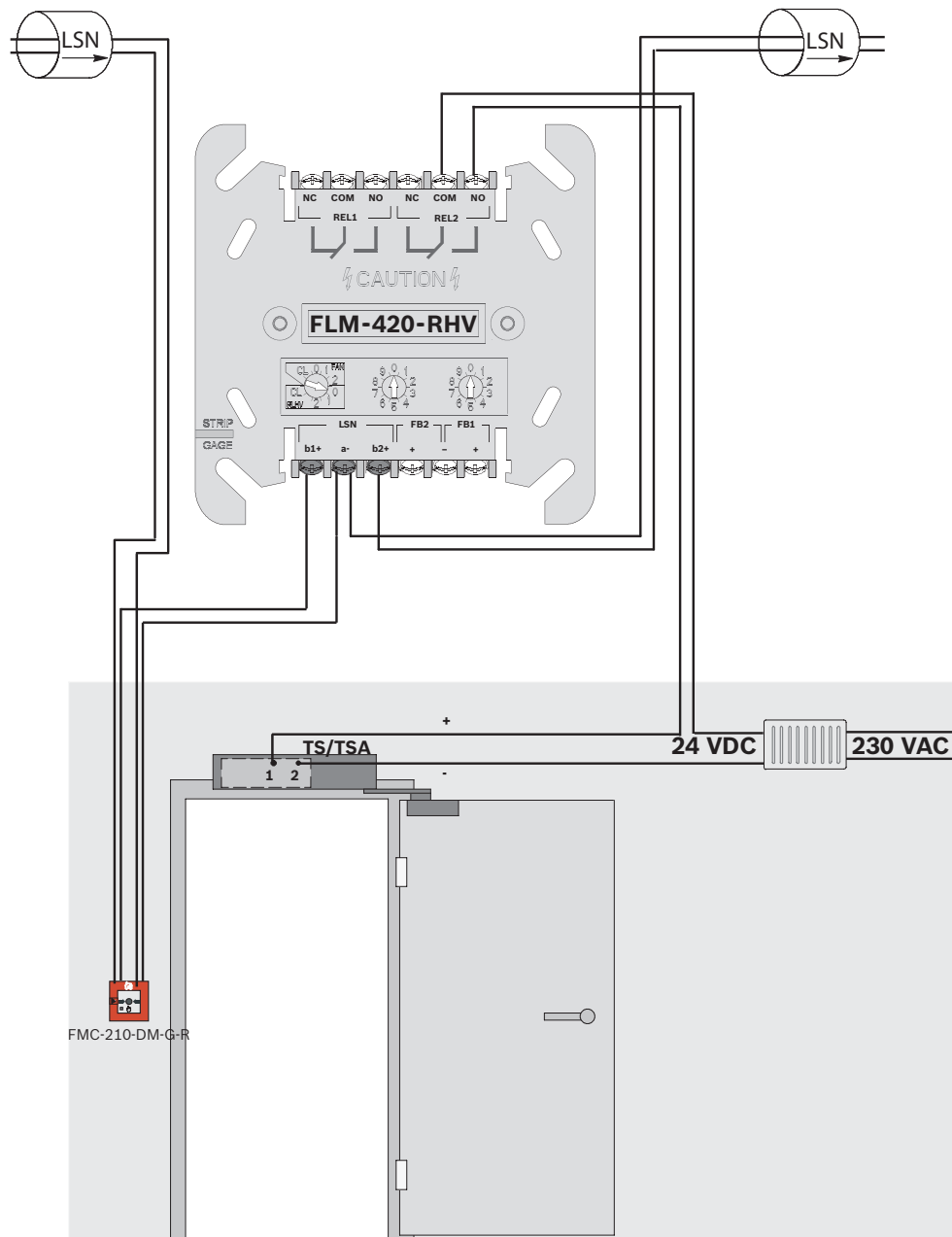
DIBT





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

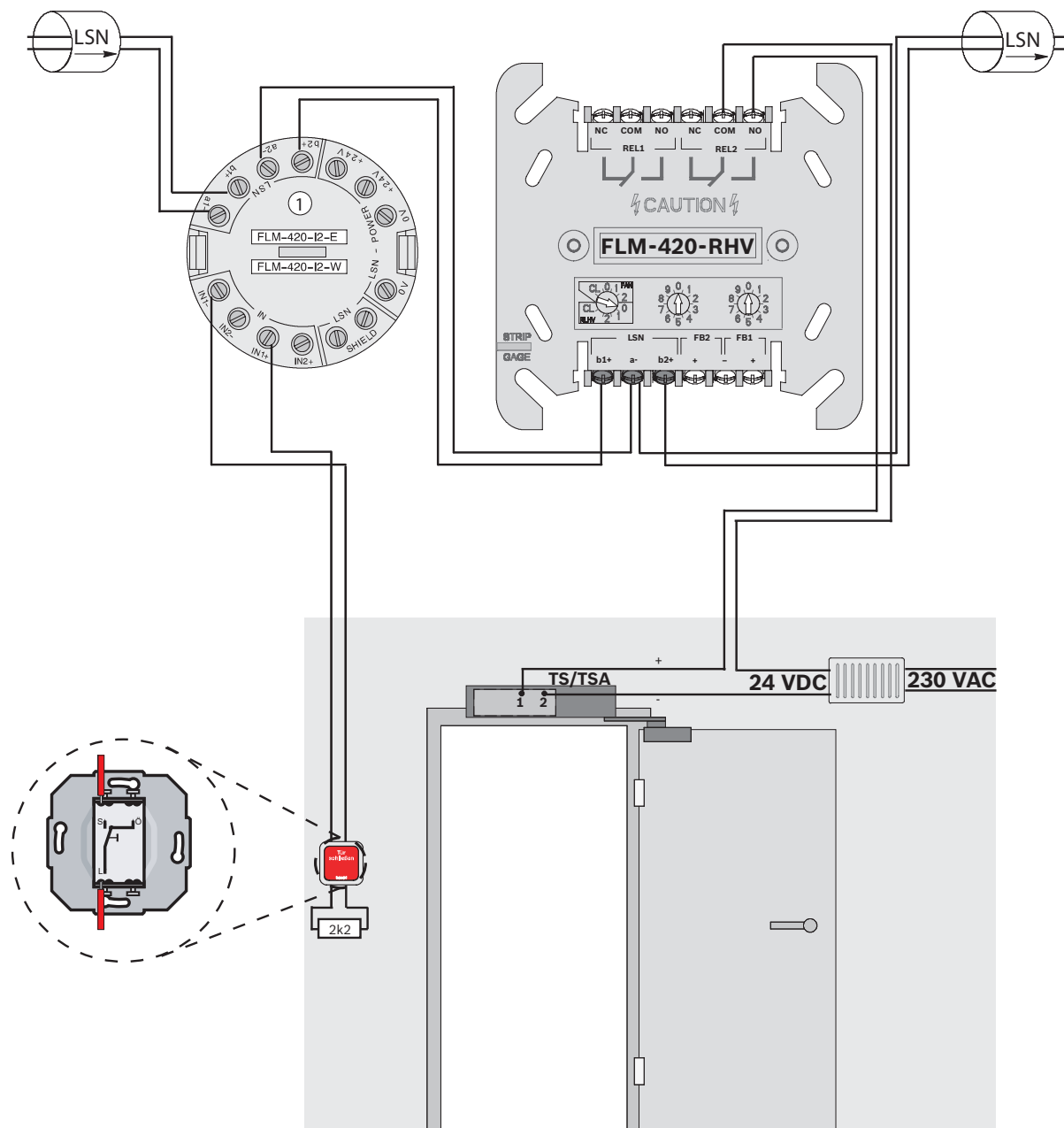
DIBT

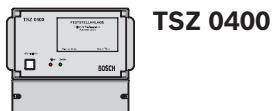




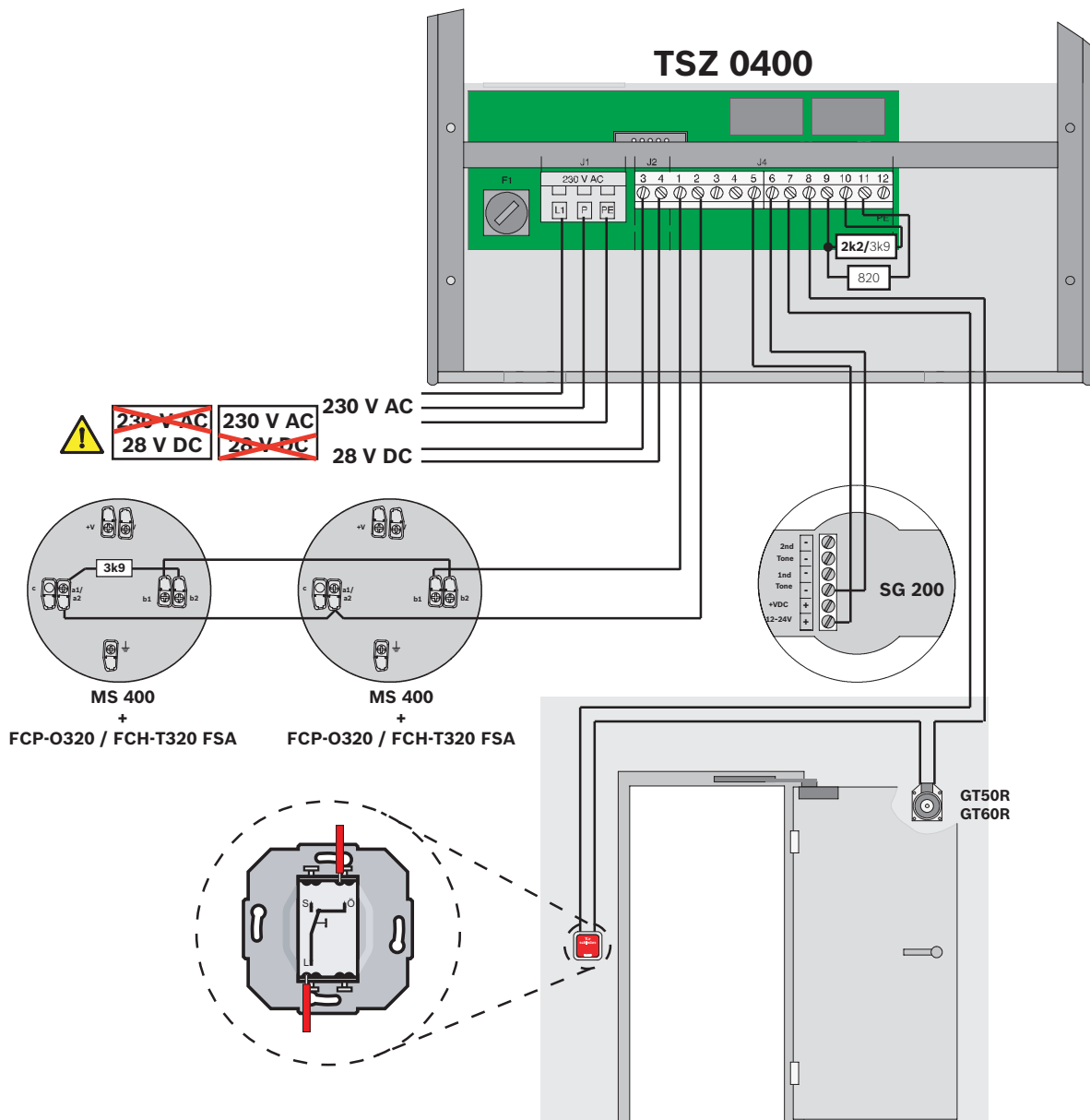
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 TS 5000 E/E-IS/E-ISM
 TS 550 E
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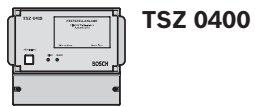
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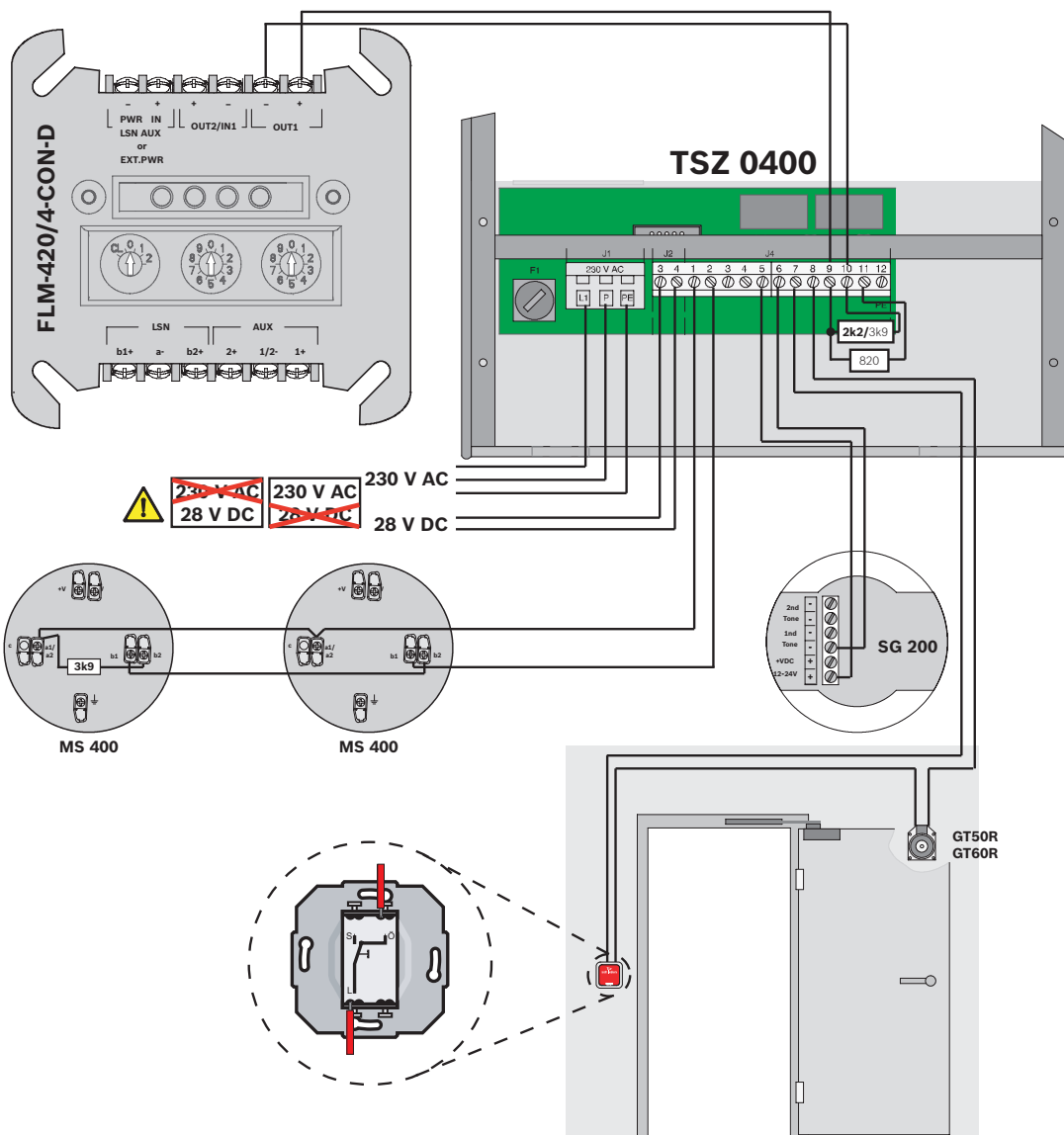


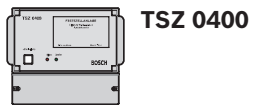
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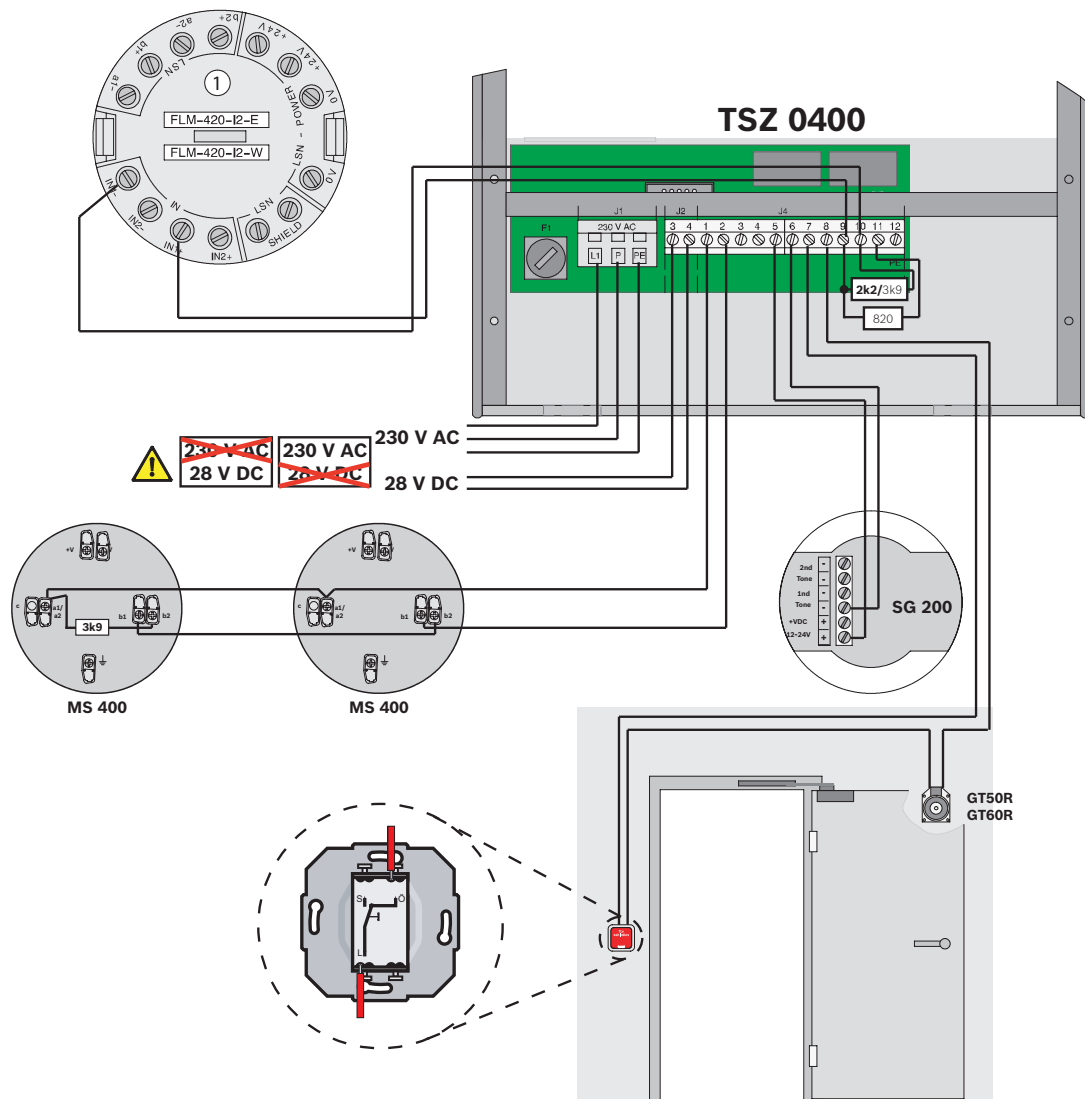


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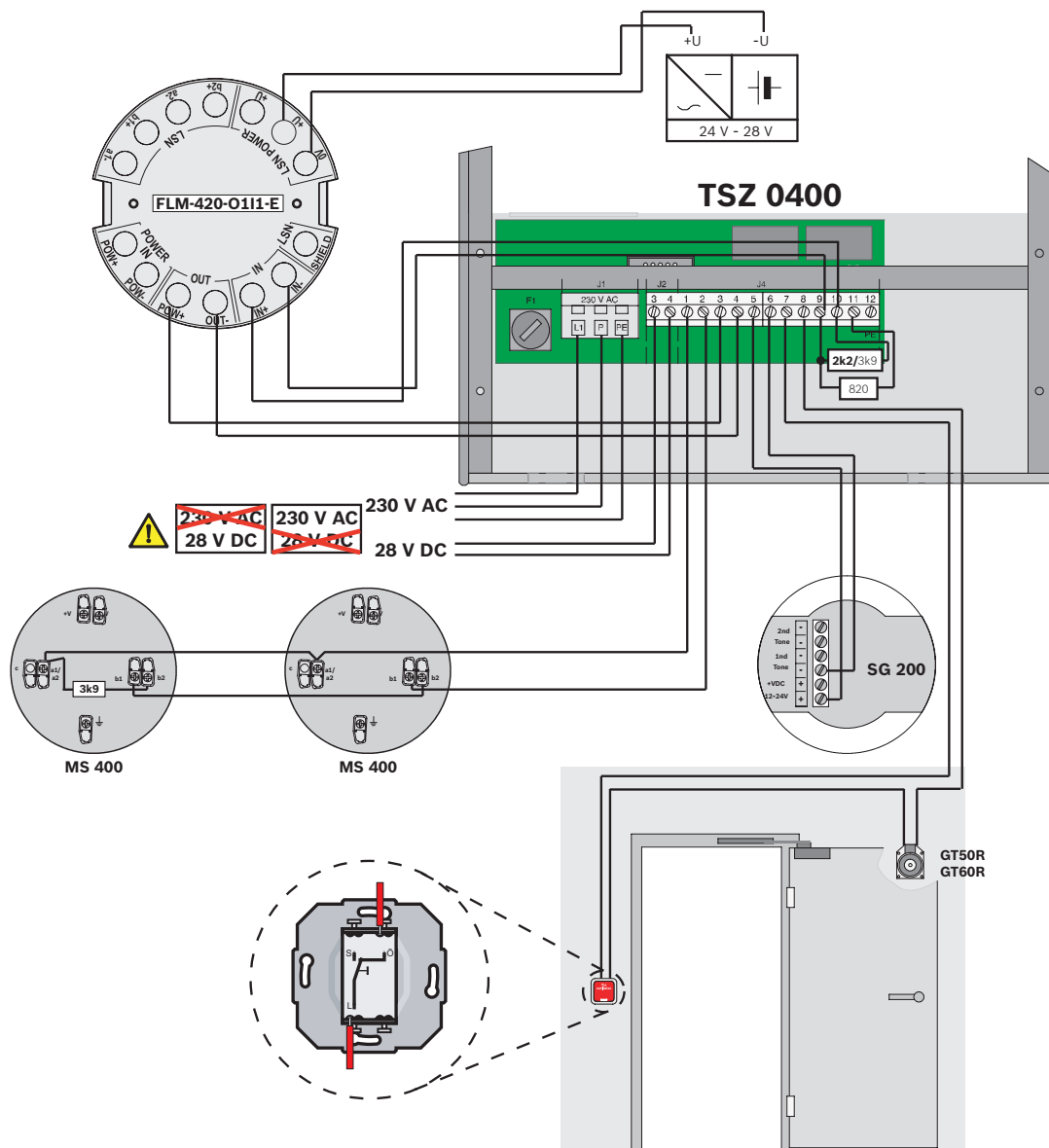


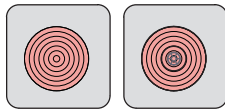
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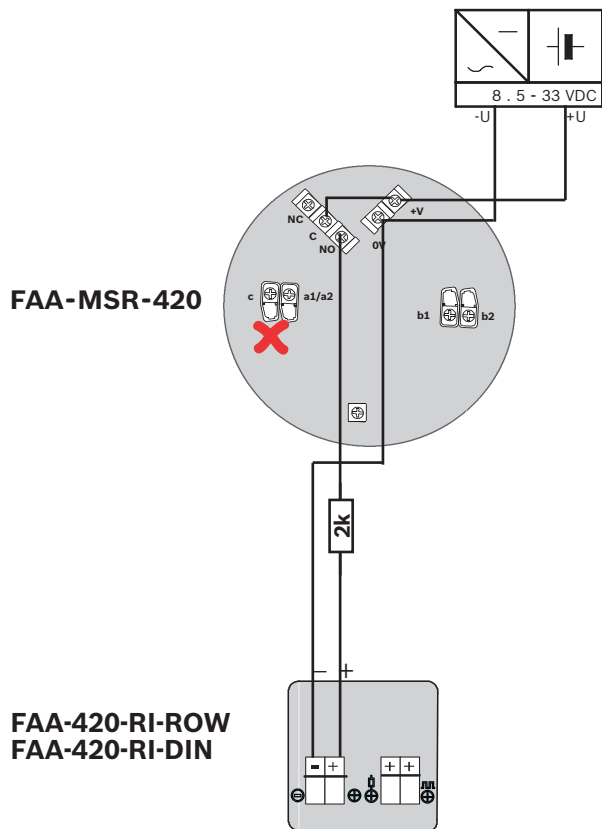
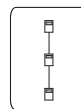


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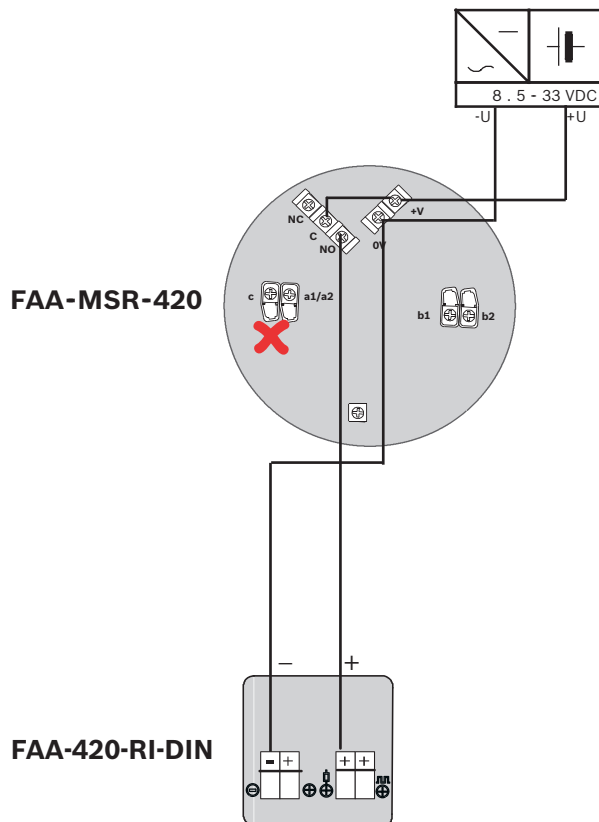
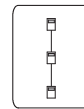


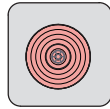
FAA-420-RI-ROW
FAA-420-RI-DIN



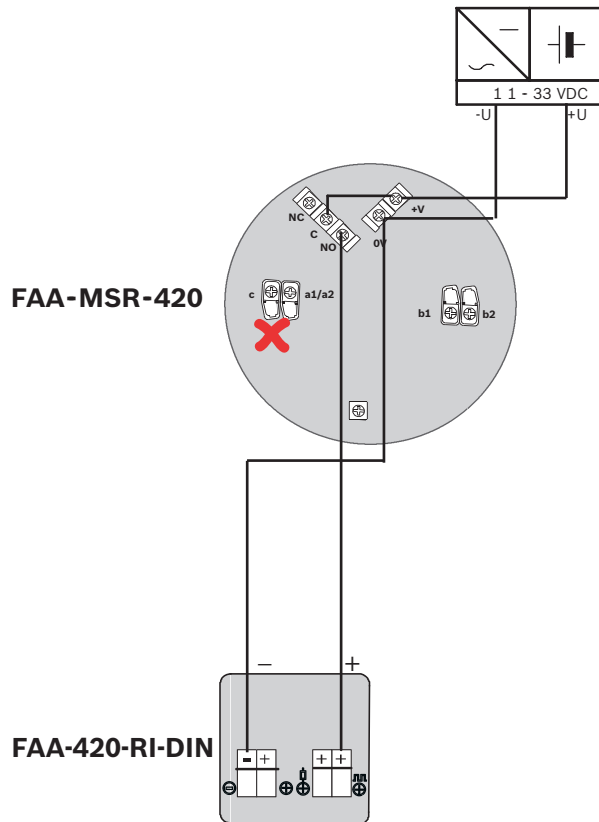
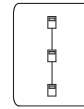


FAA-420-RI-DIN





FAA-420-RI-DIN



3.3

Modules fonctionnels



BCM-000-B, Page 42

CZM 0004 A, Page 44

ENO 0000 A/B, Page 48

LSN 0300 A, Page 55

NZM 0002 A, Page 90

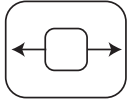
RMH 0002 A, Page 106

IOS 0020 A, Page 109

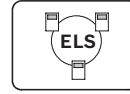
FPE-5000-UGM, Page 112

3.3.1

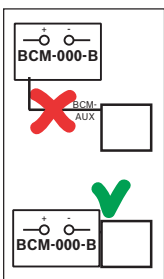
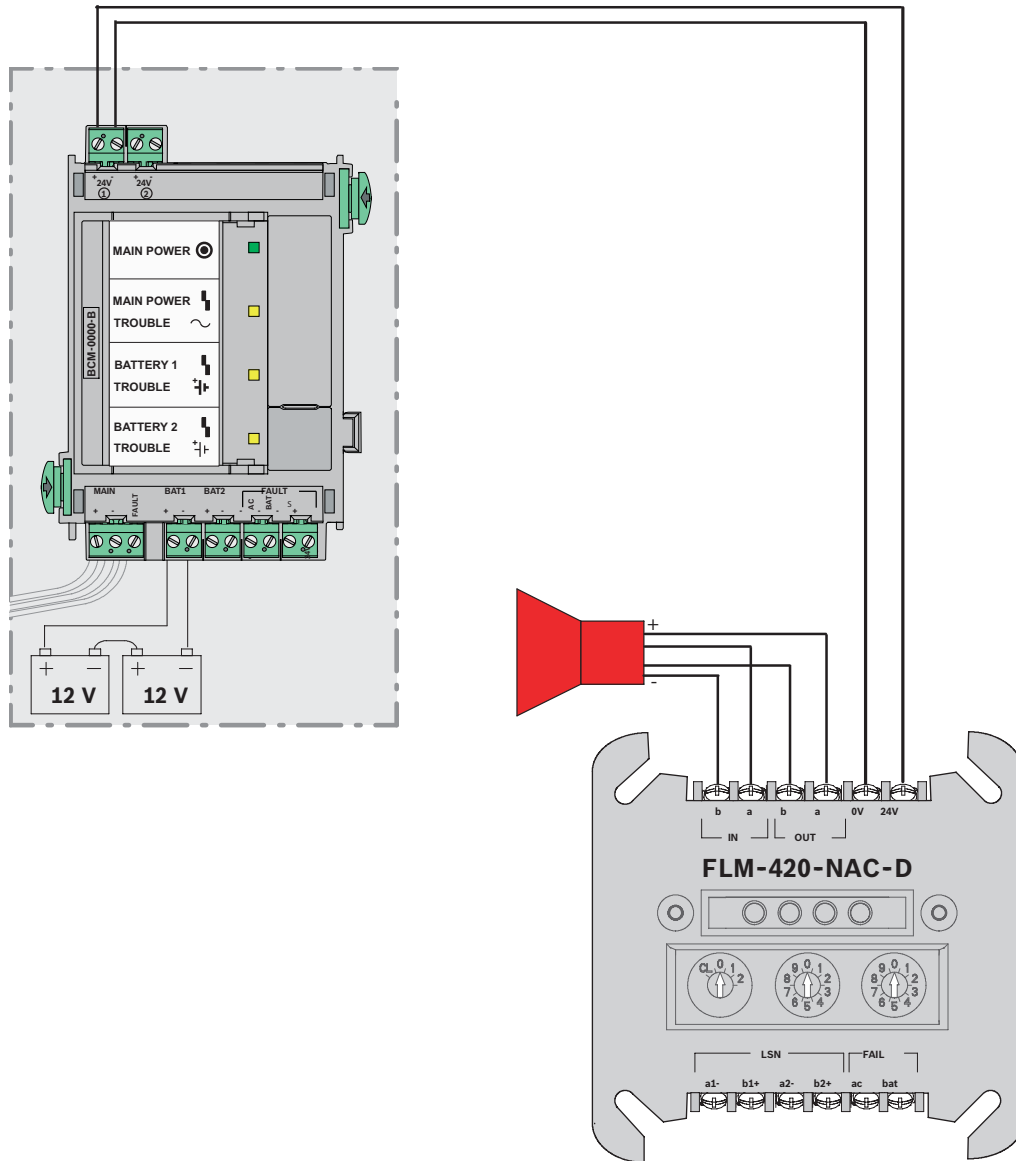
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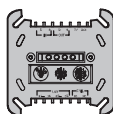
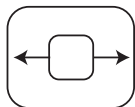


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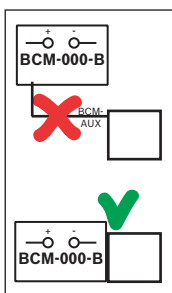
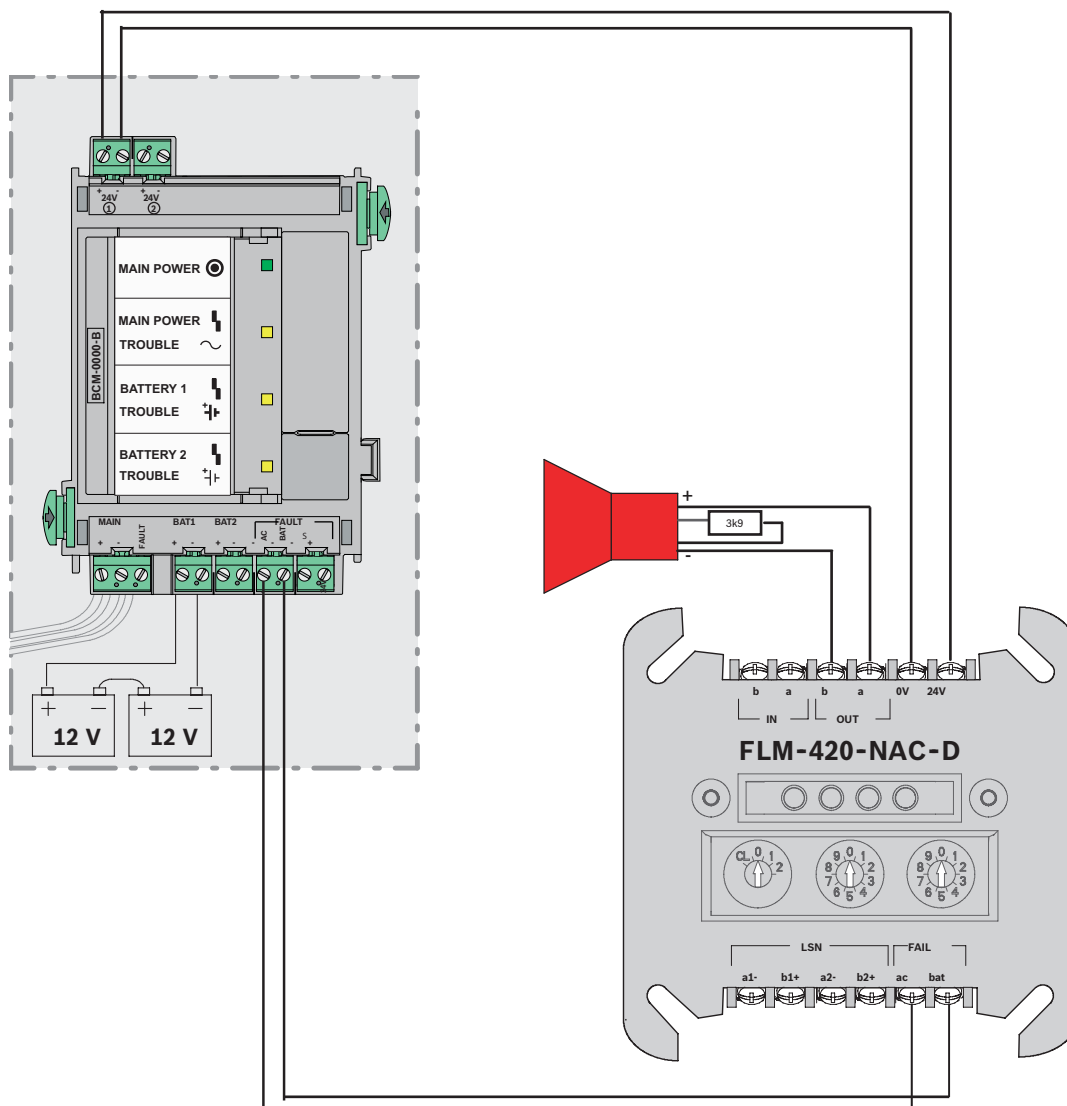
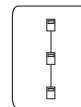


VdS 2489





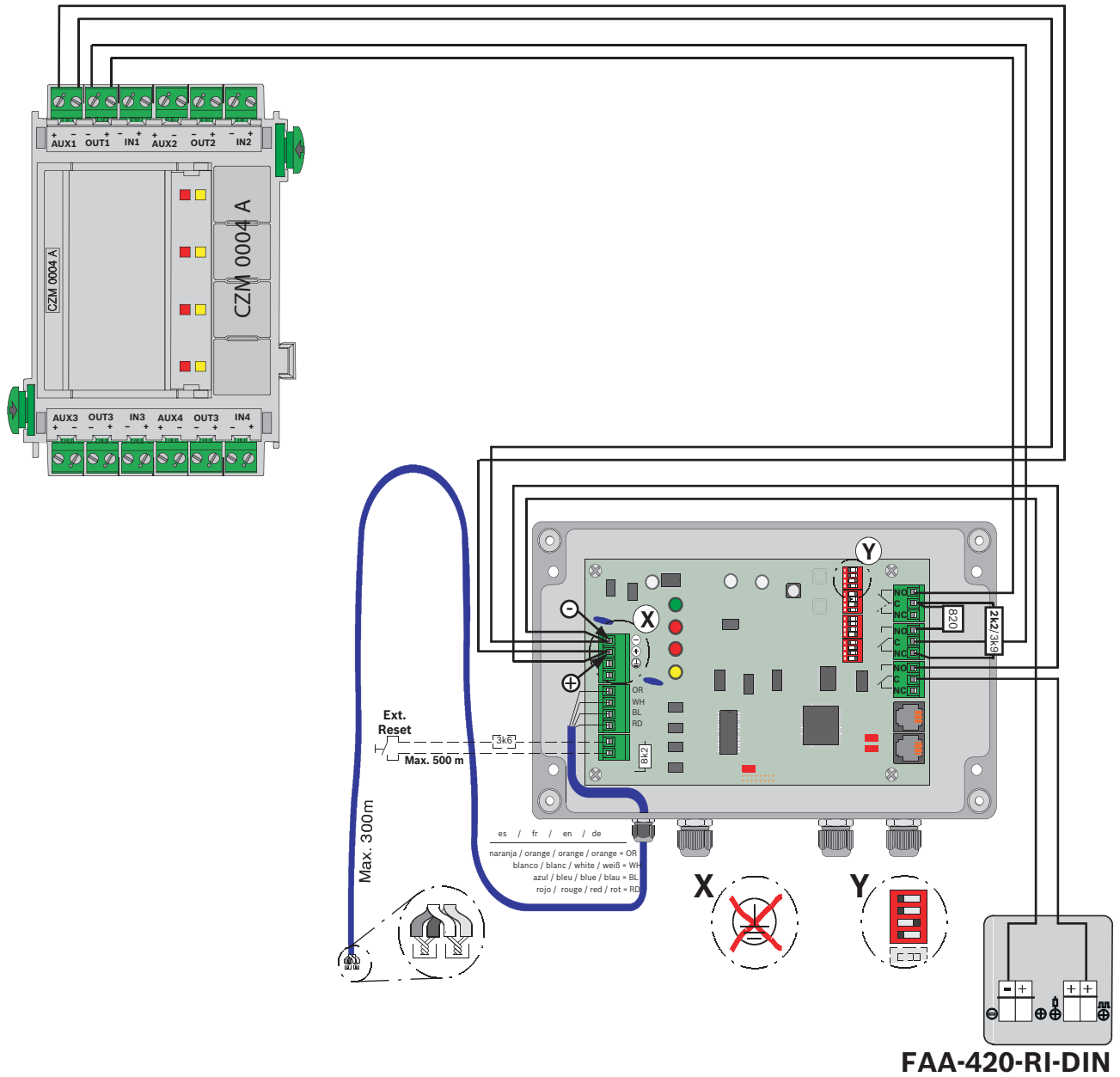
FLM-420-NAC-D



3.3.2 CZM 0004 A

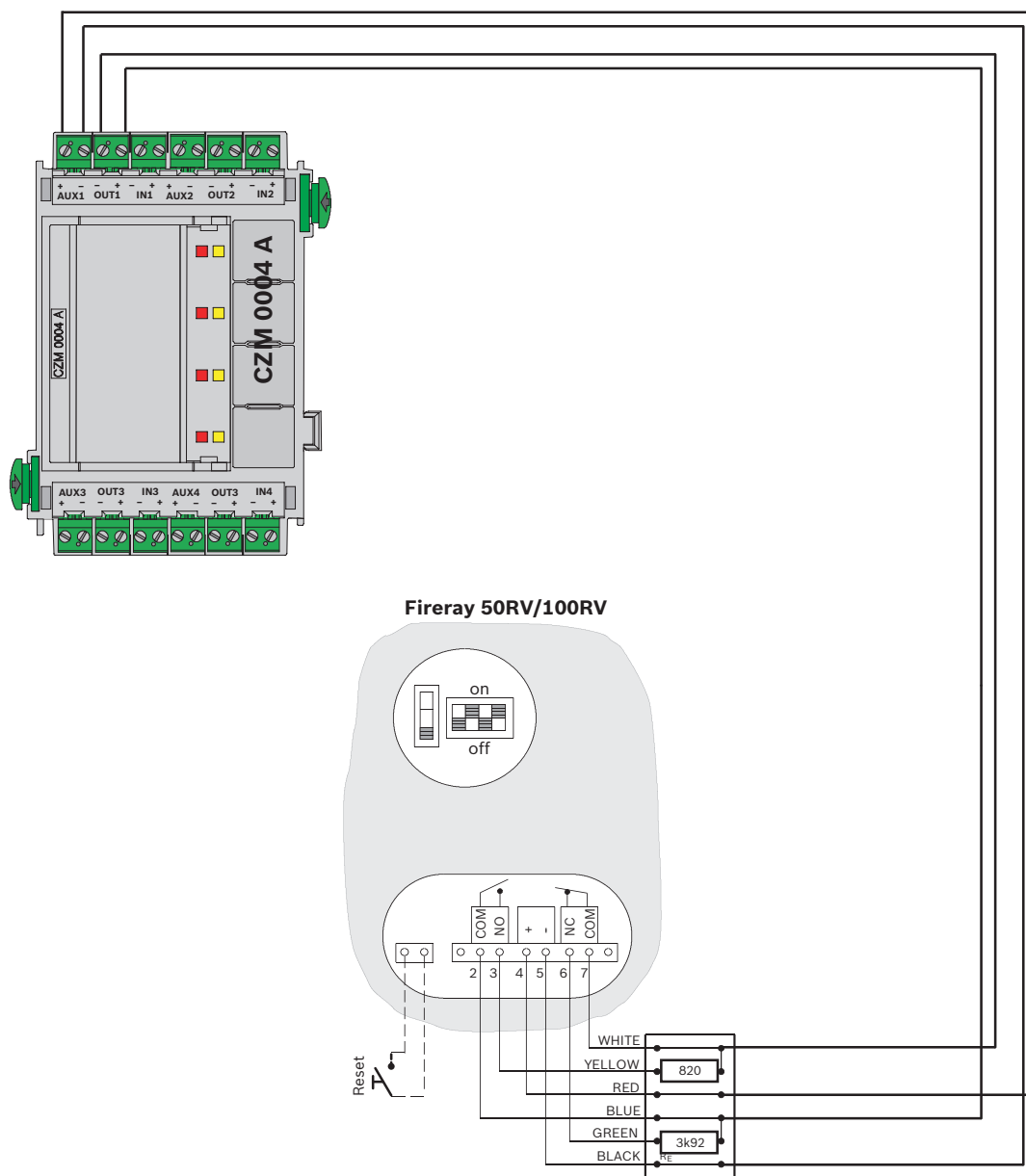


FCS-LWM-1



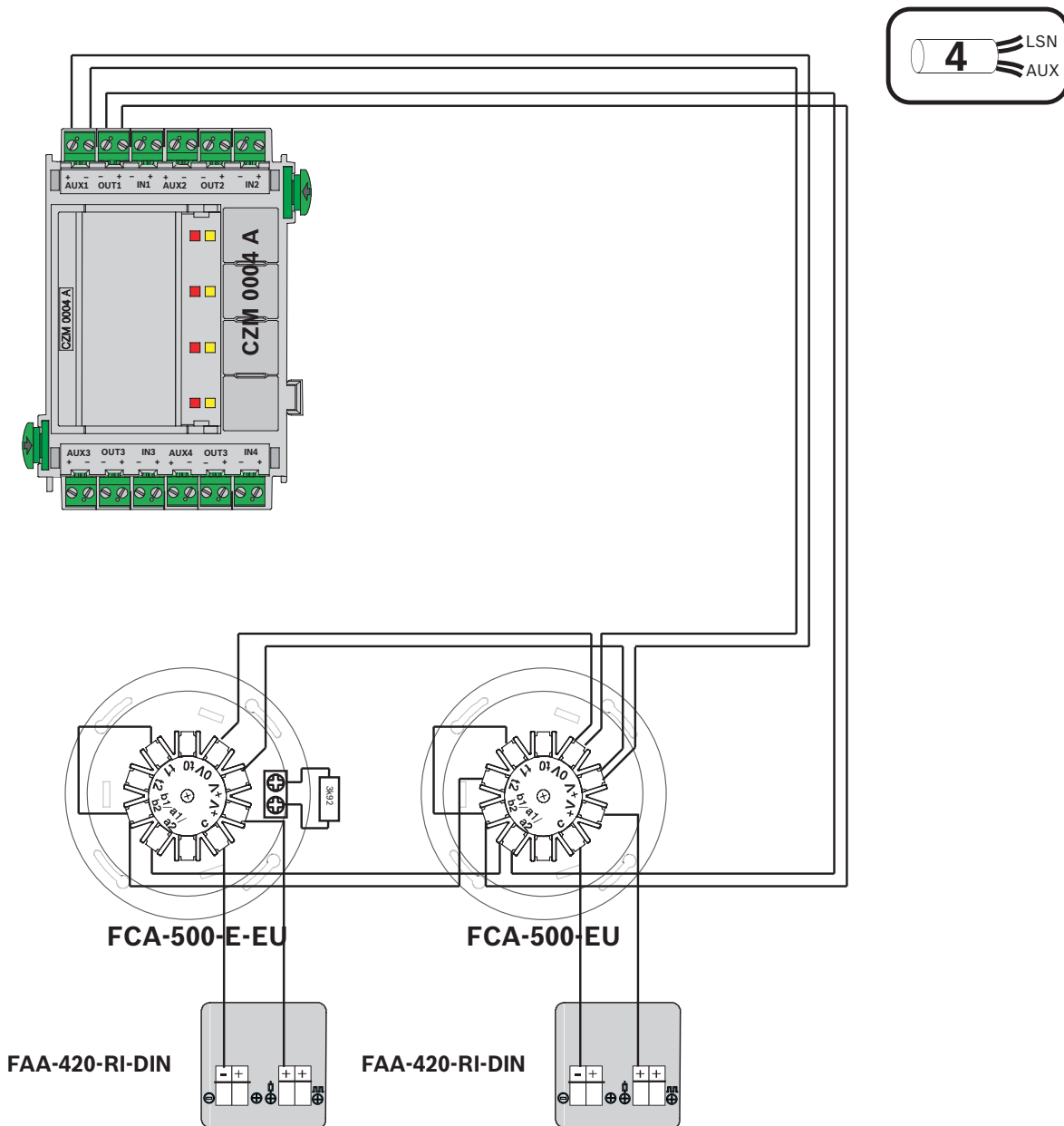
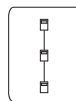


Fireray 50RV
Fireray 100RV



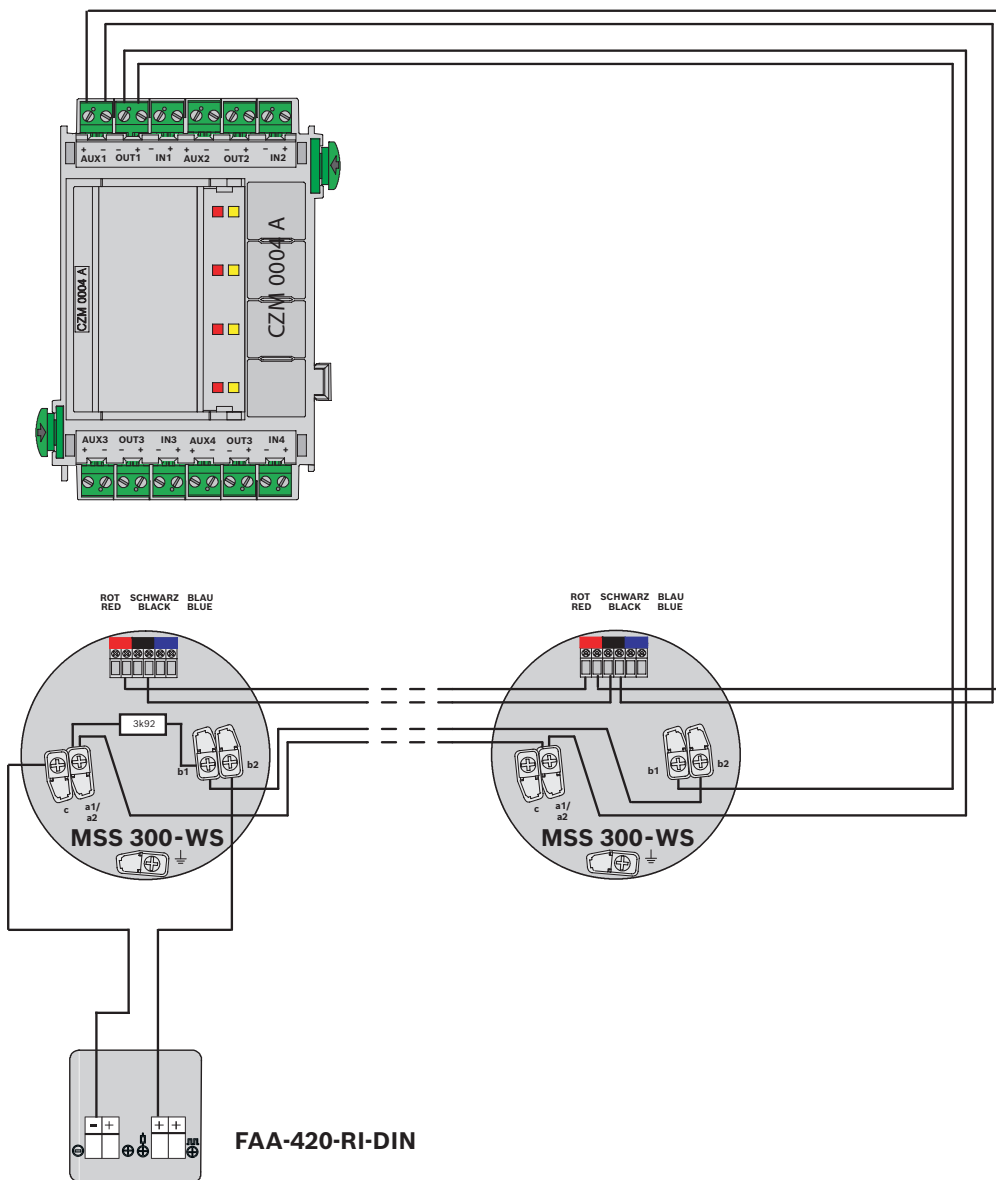


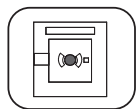
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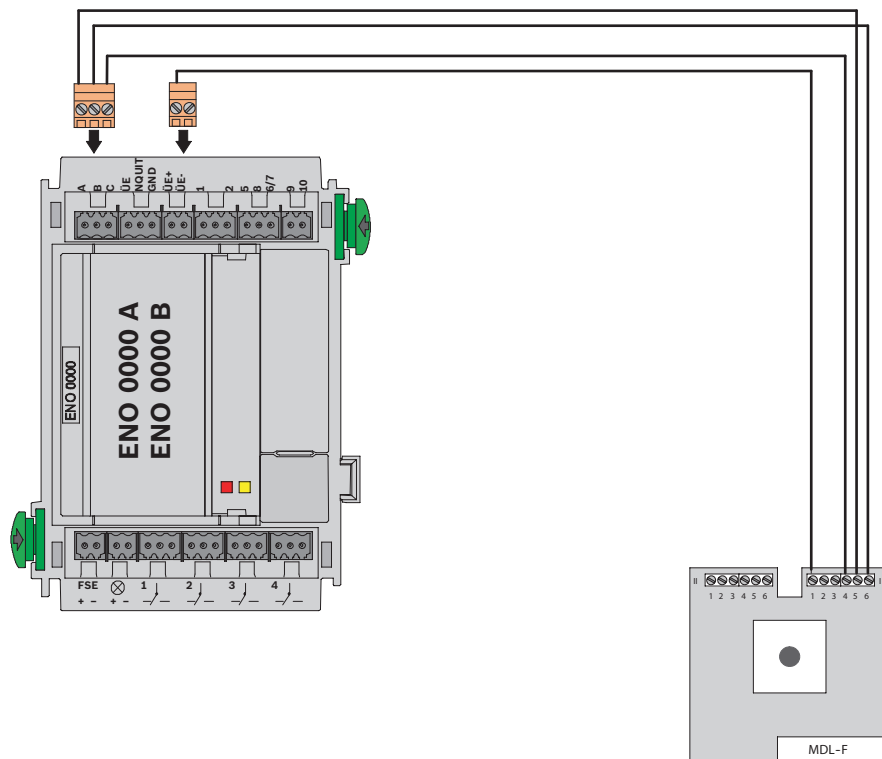


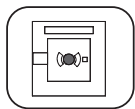
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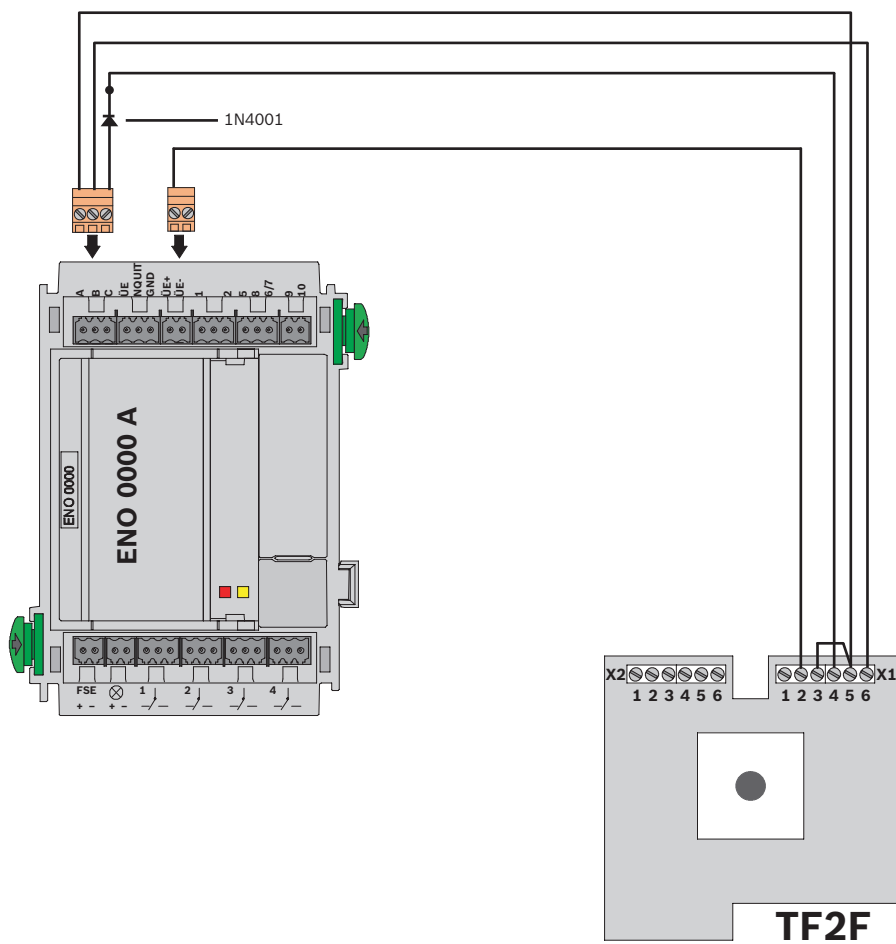
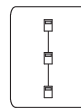


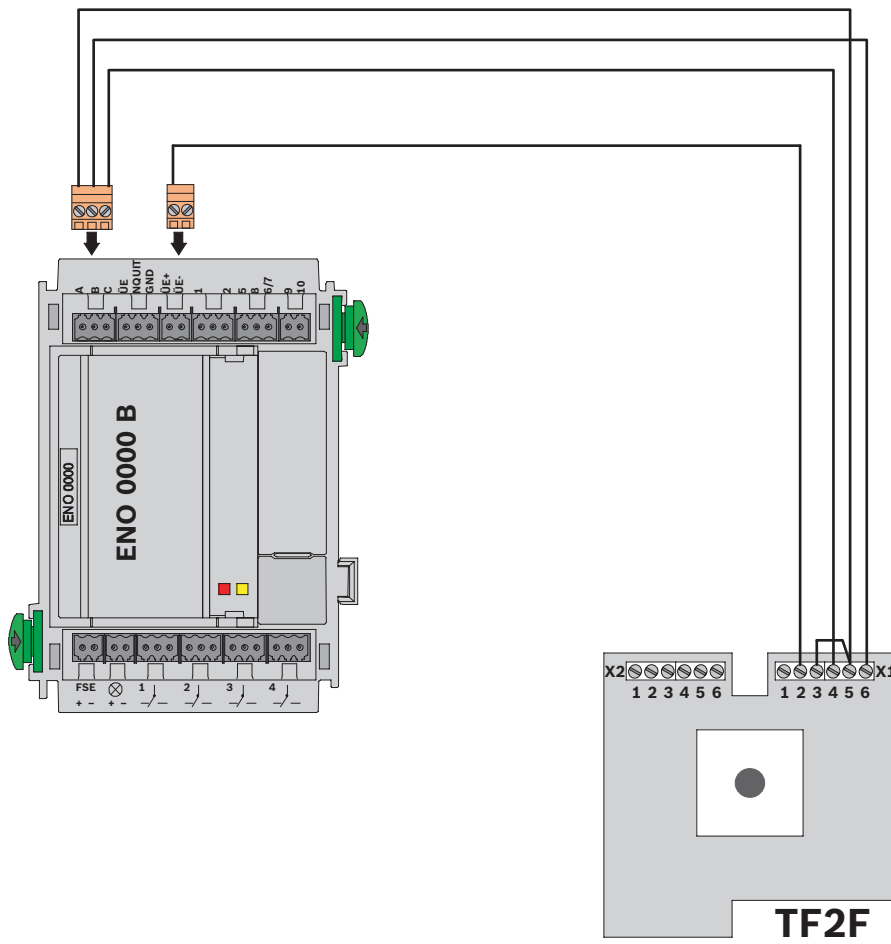
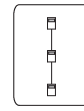
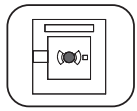
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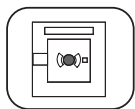




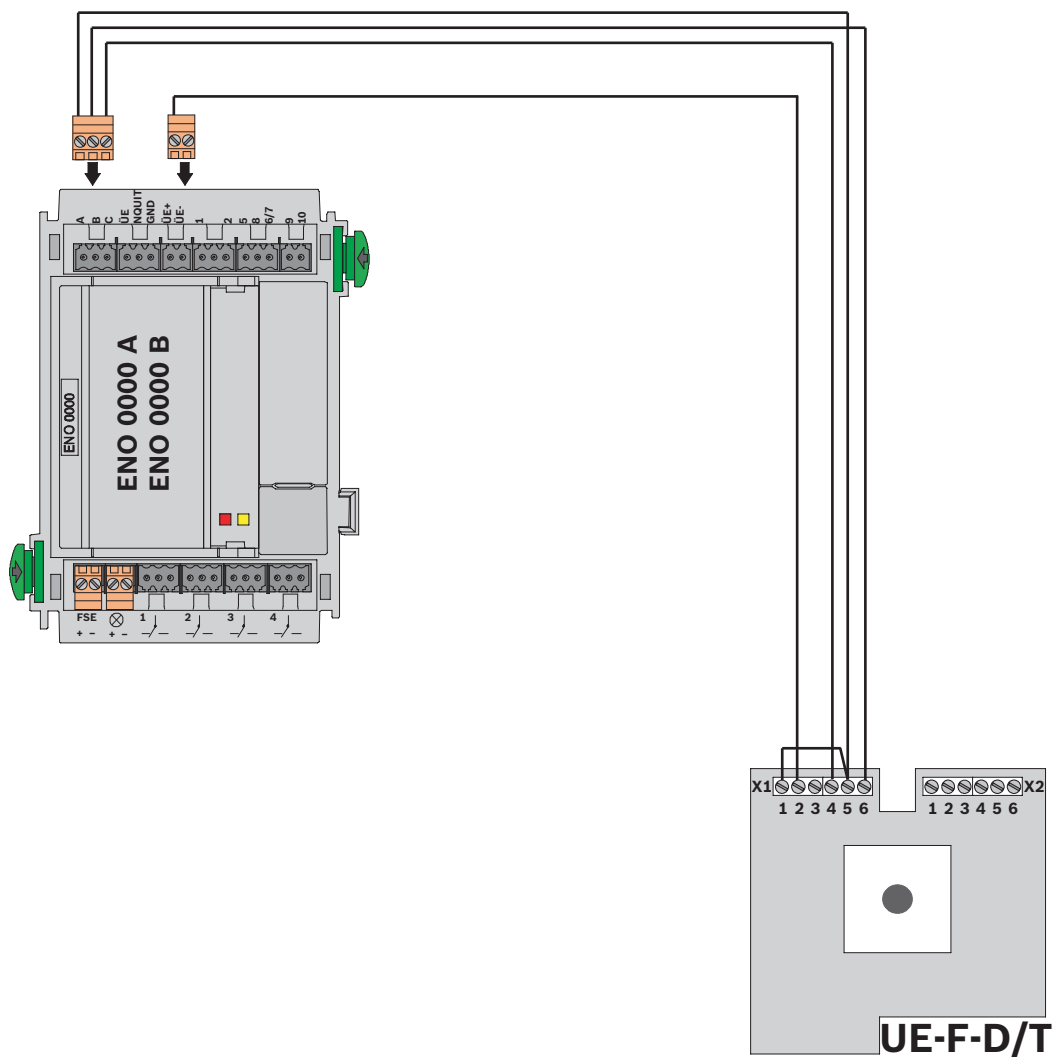
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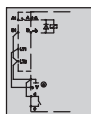




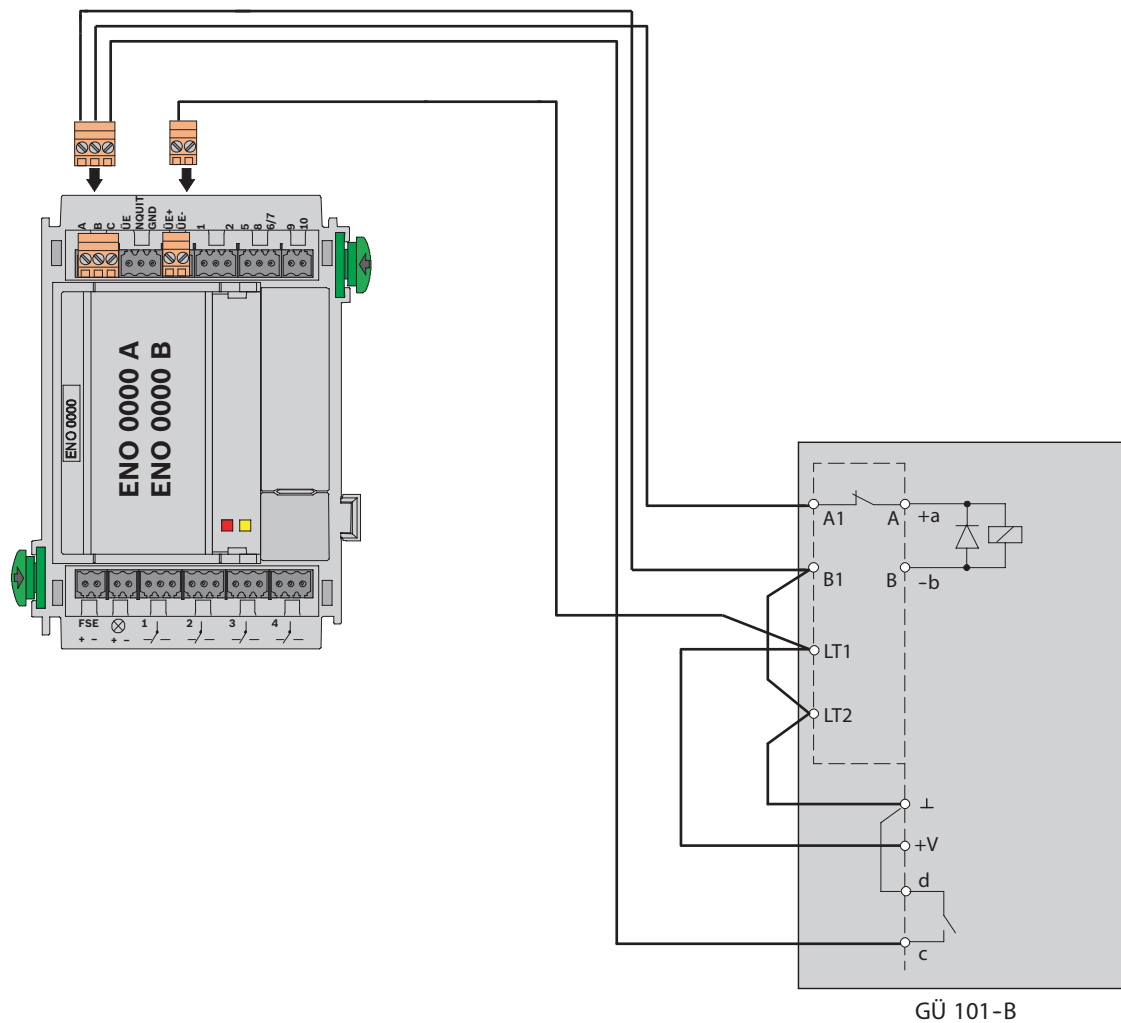
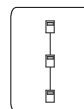


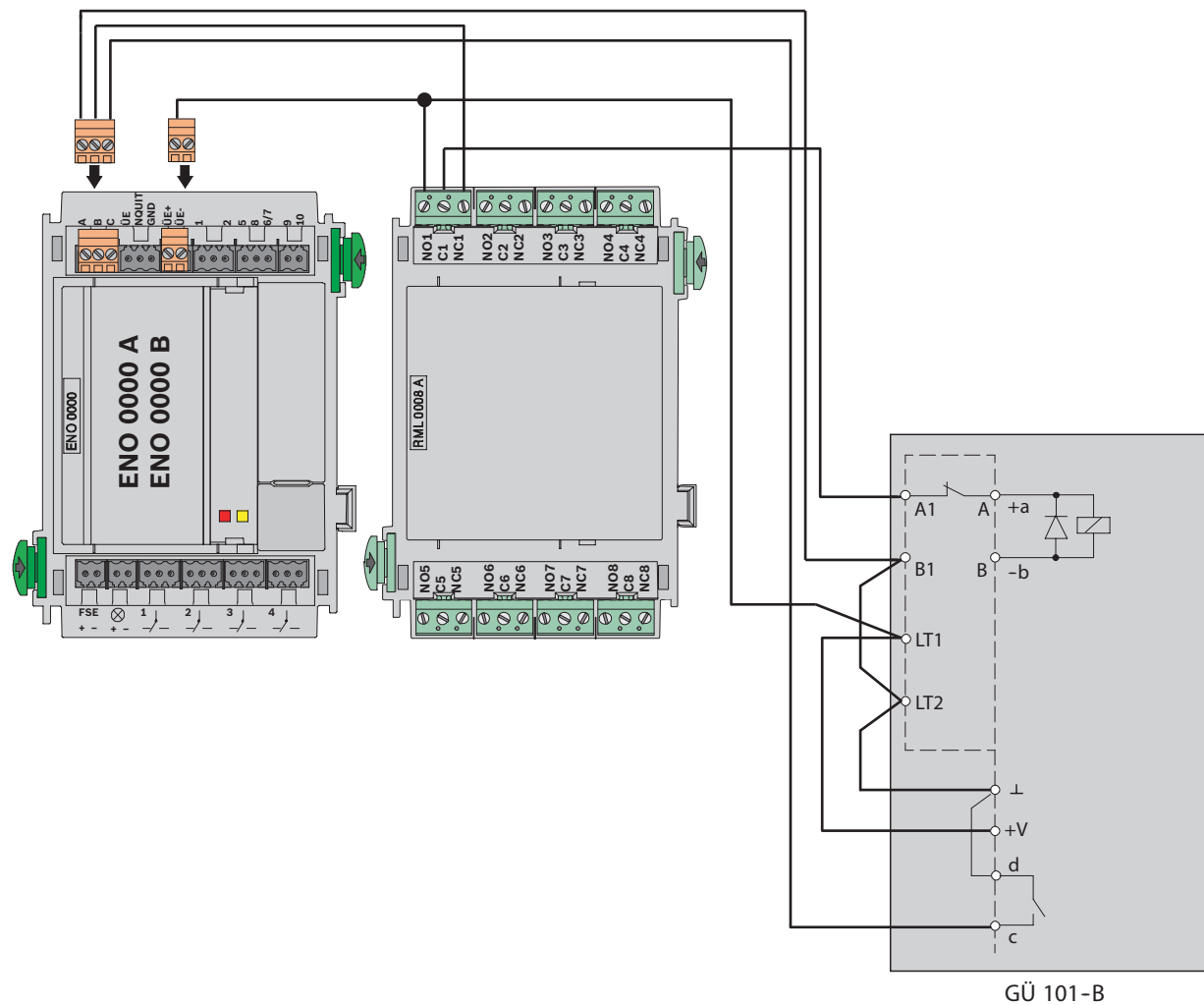
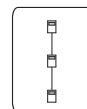
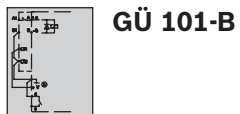
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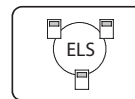
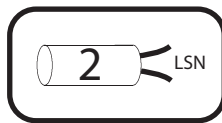
GÜ 101-B



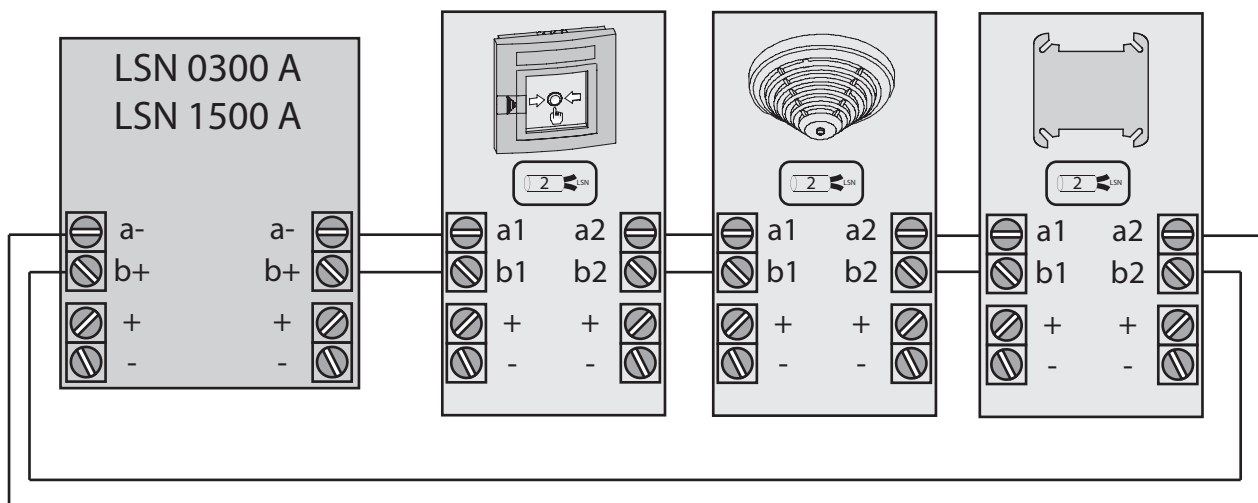


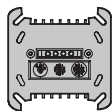
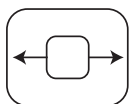
3.3.4

LSN 0300 A

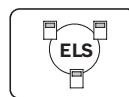


VdS 2489

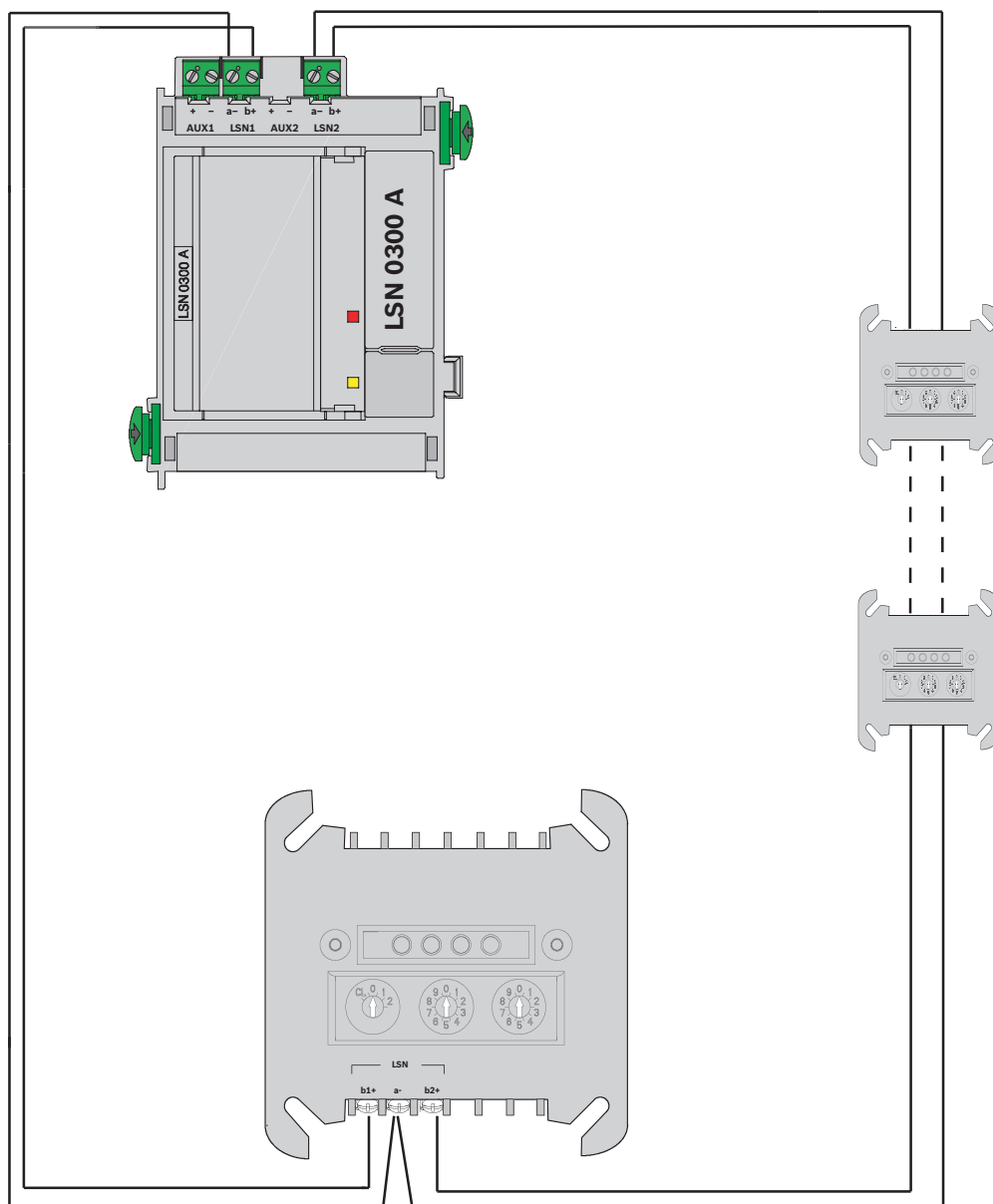


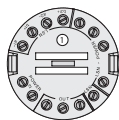
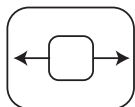


FLM-I 420-S
 FLM-420-I2-D
 FLM-420-O1I1-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

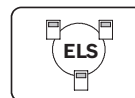


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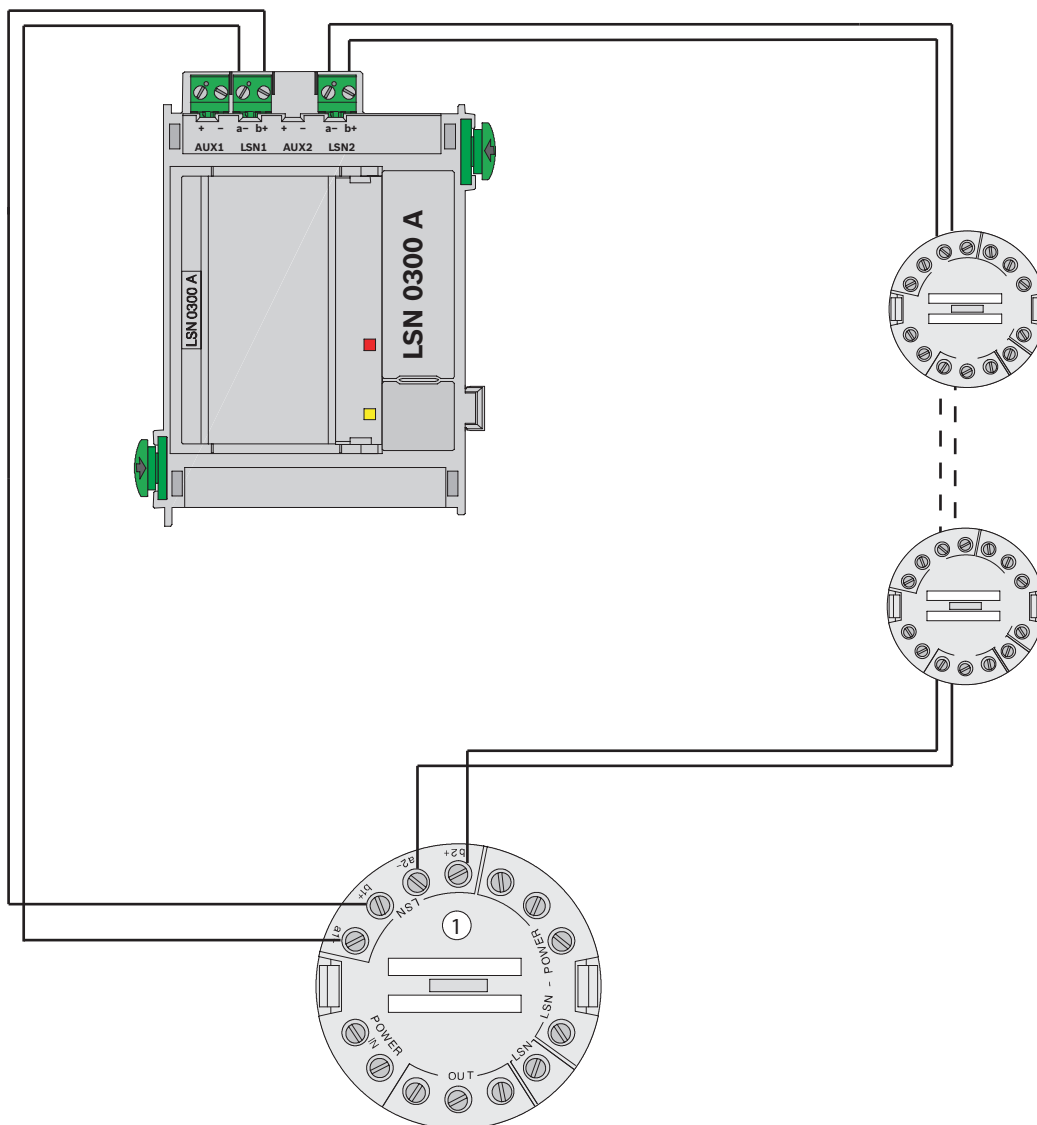


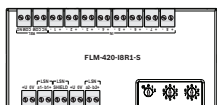
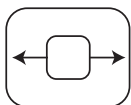


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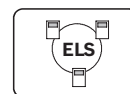


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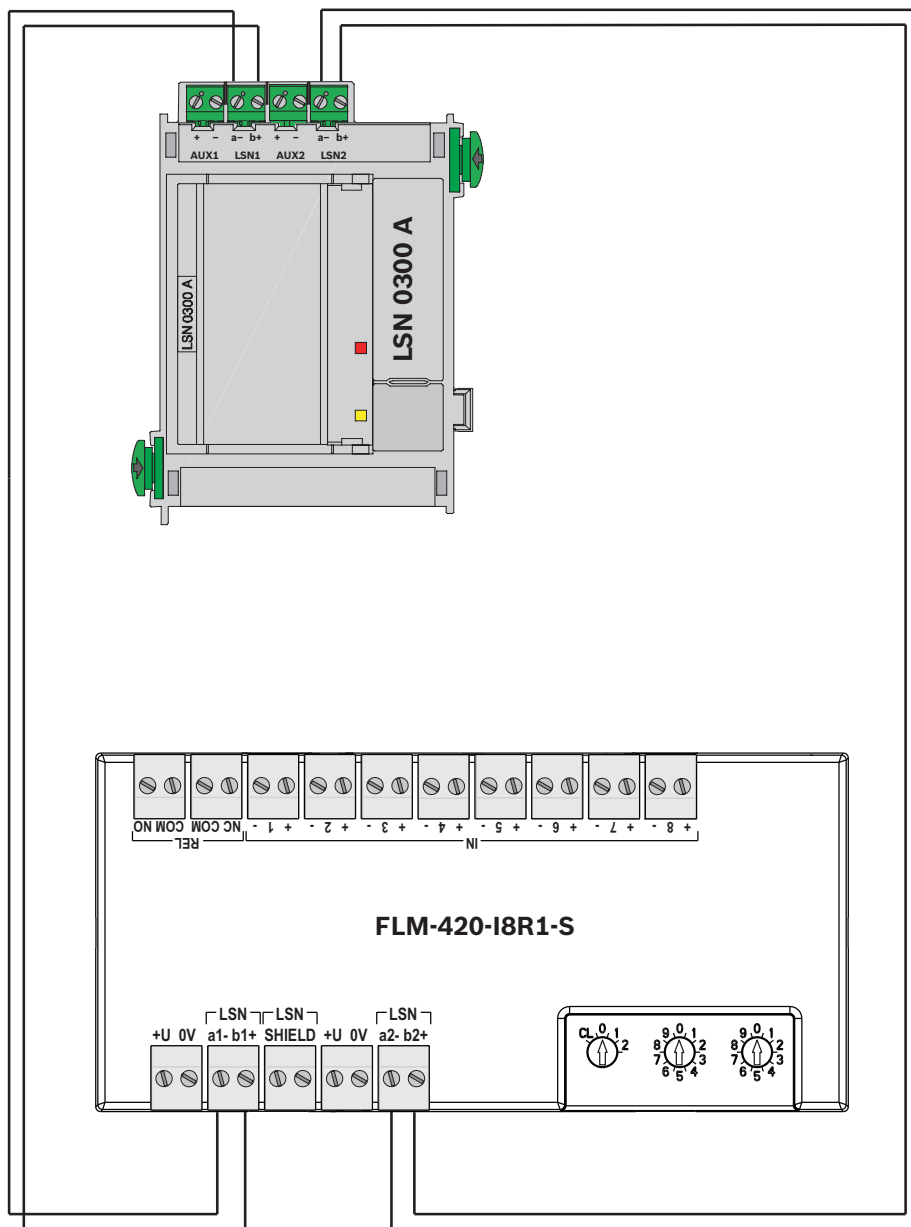


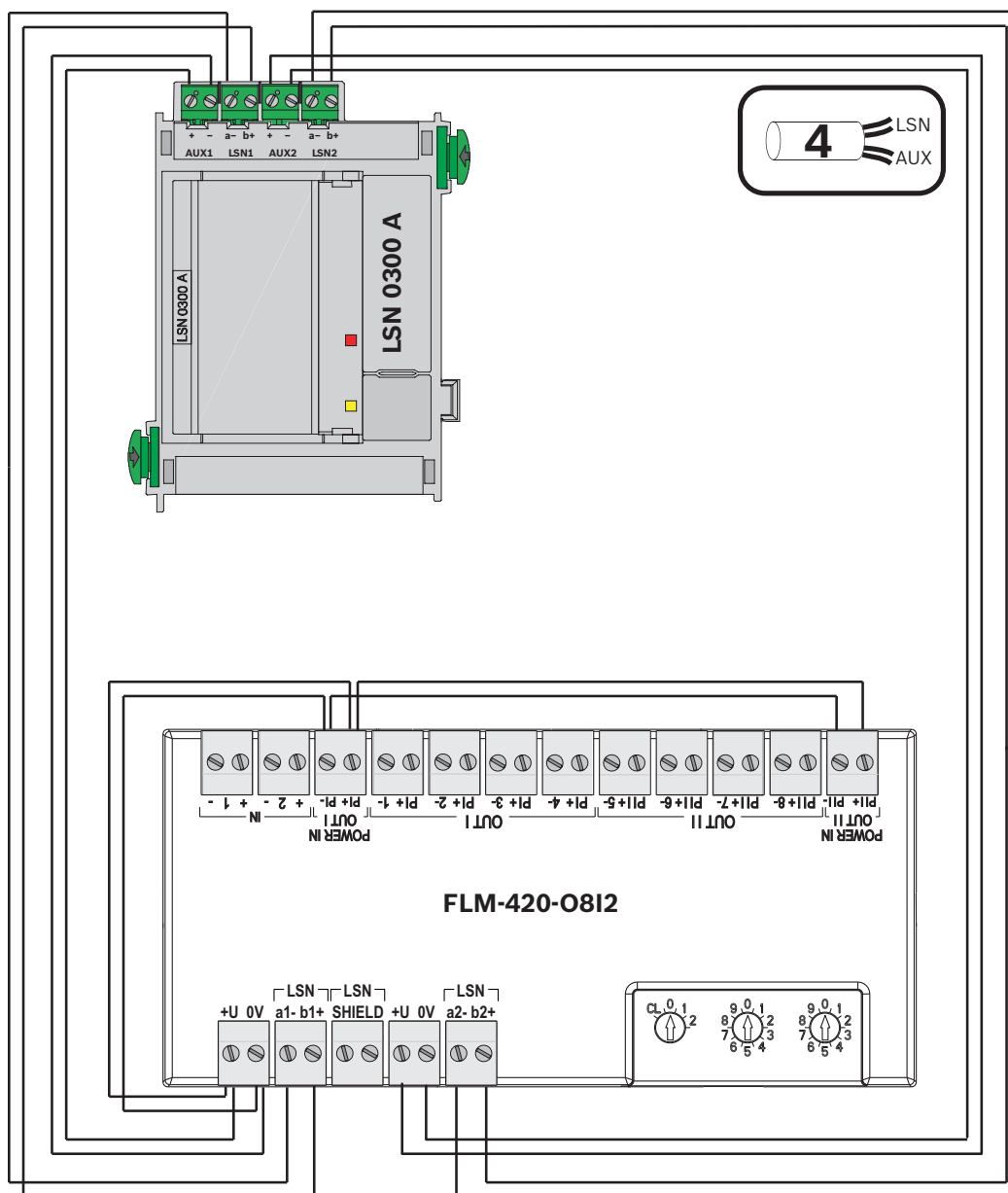
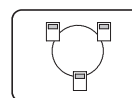
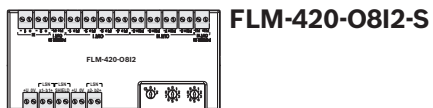
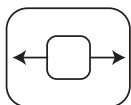


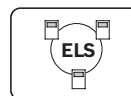
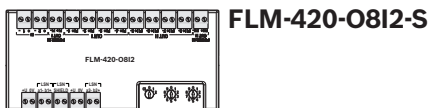
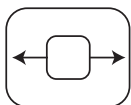
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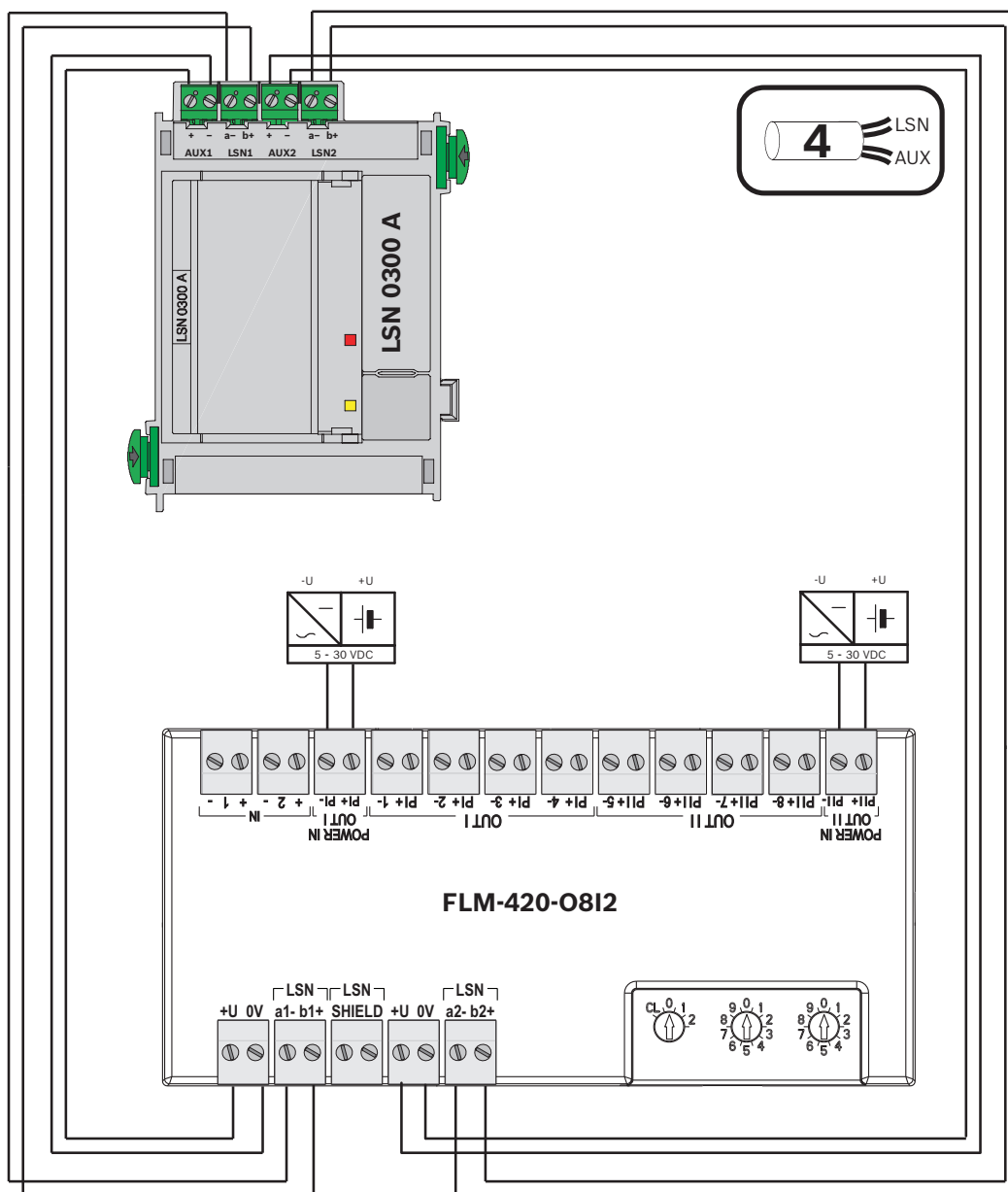
VdS 2489

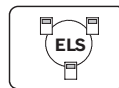
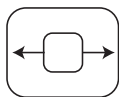




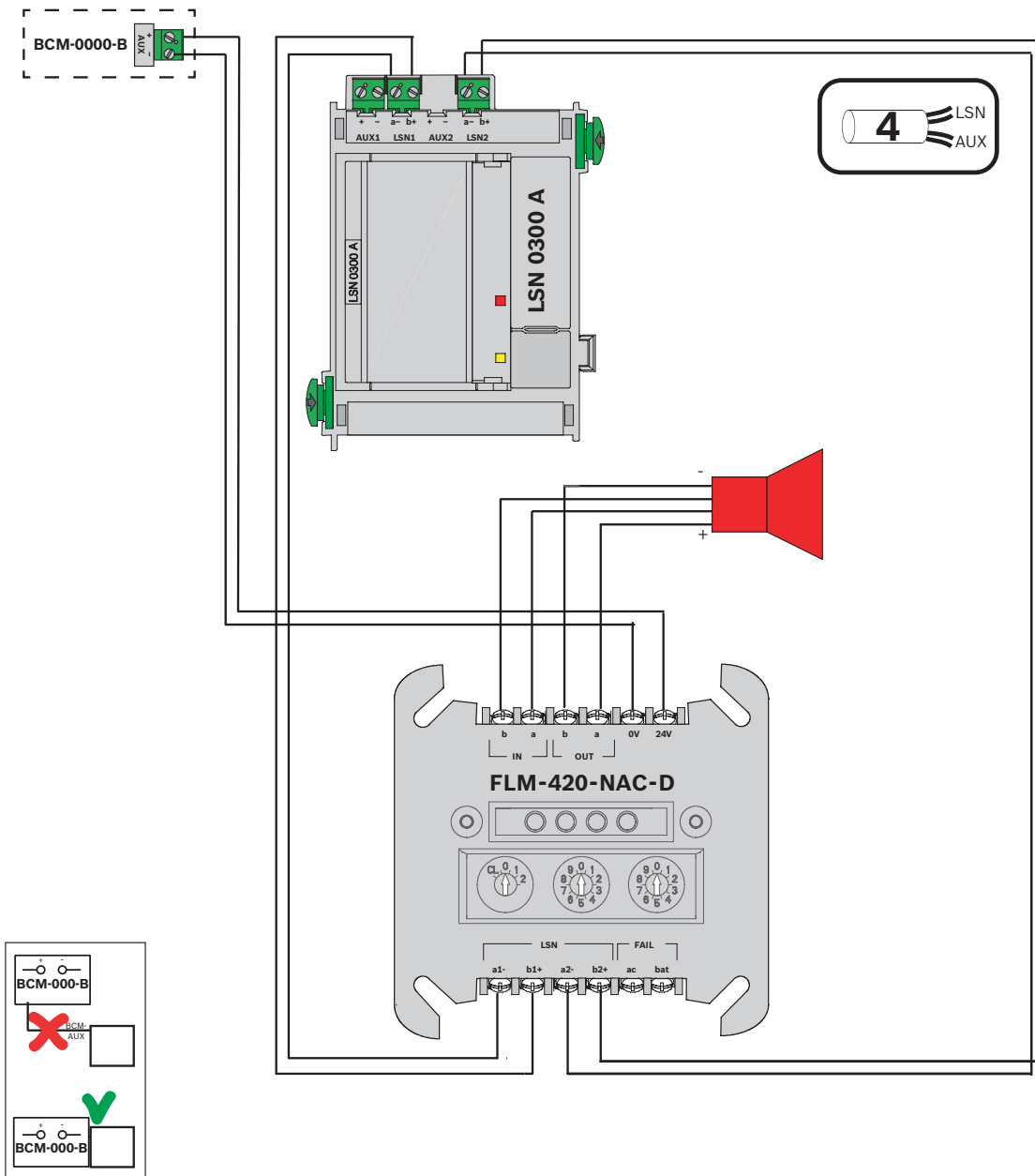


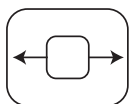
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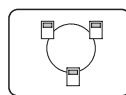


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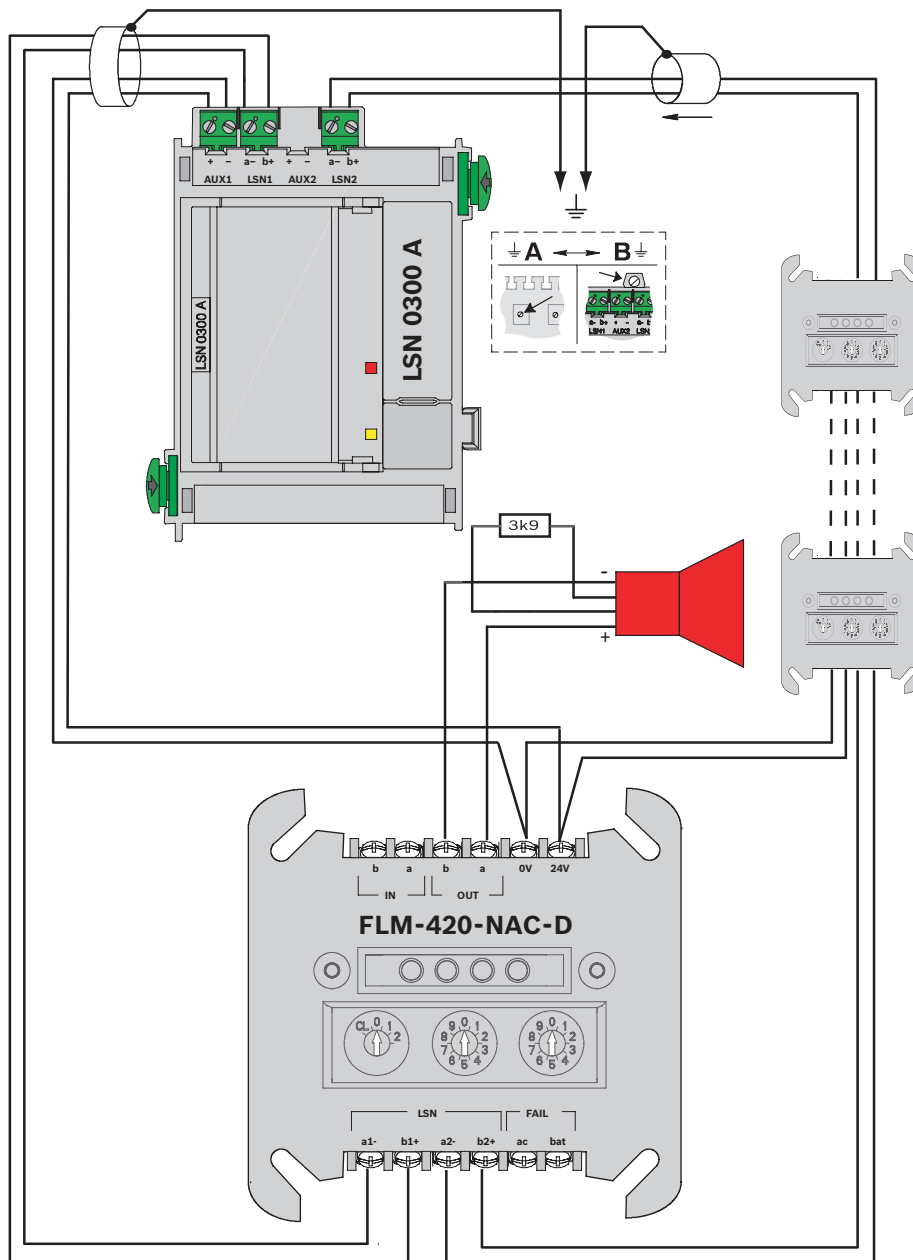


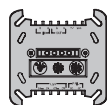
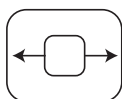


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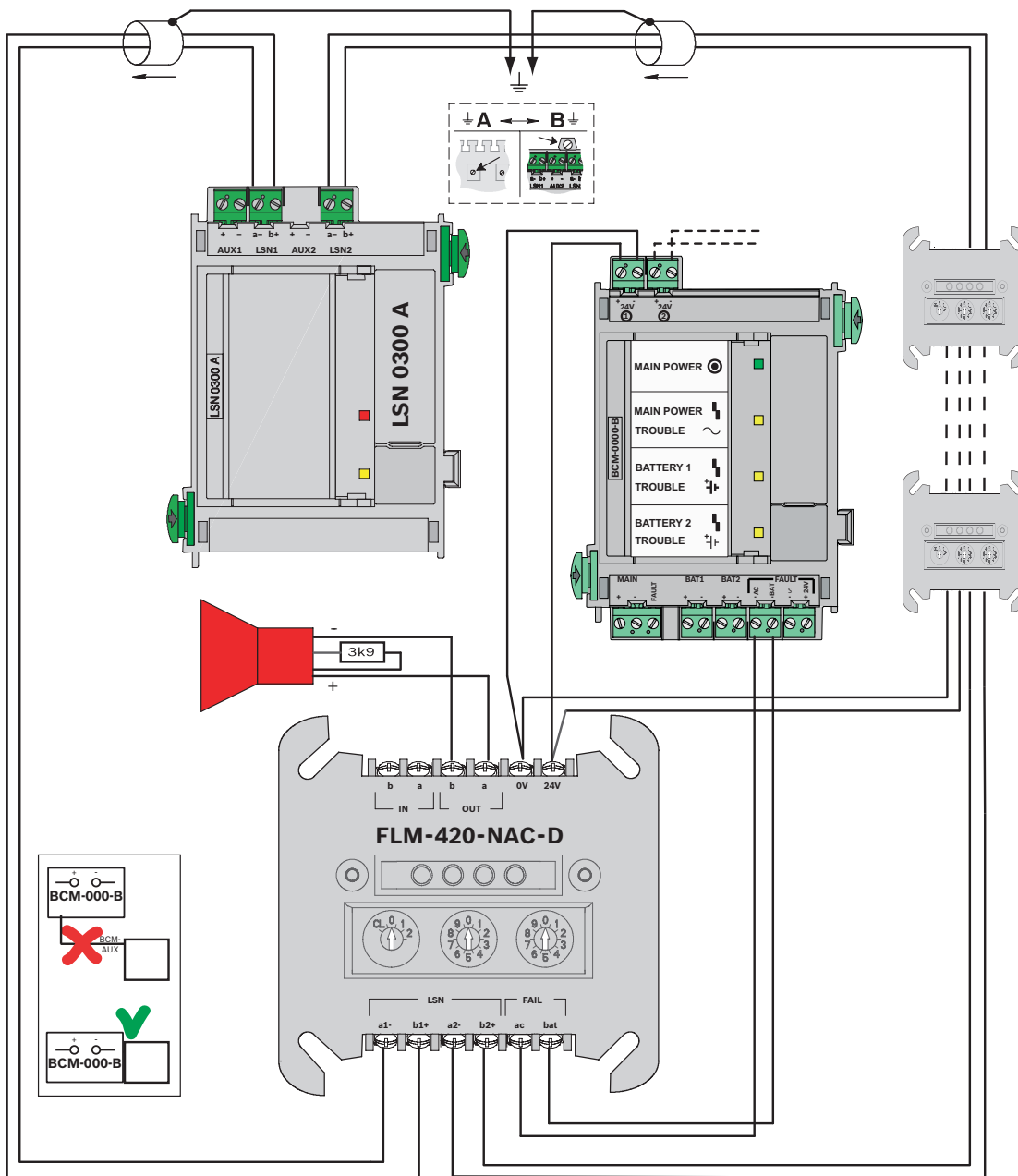
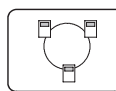


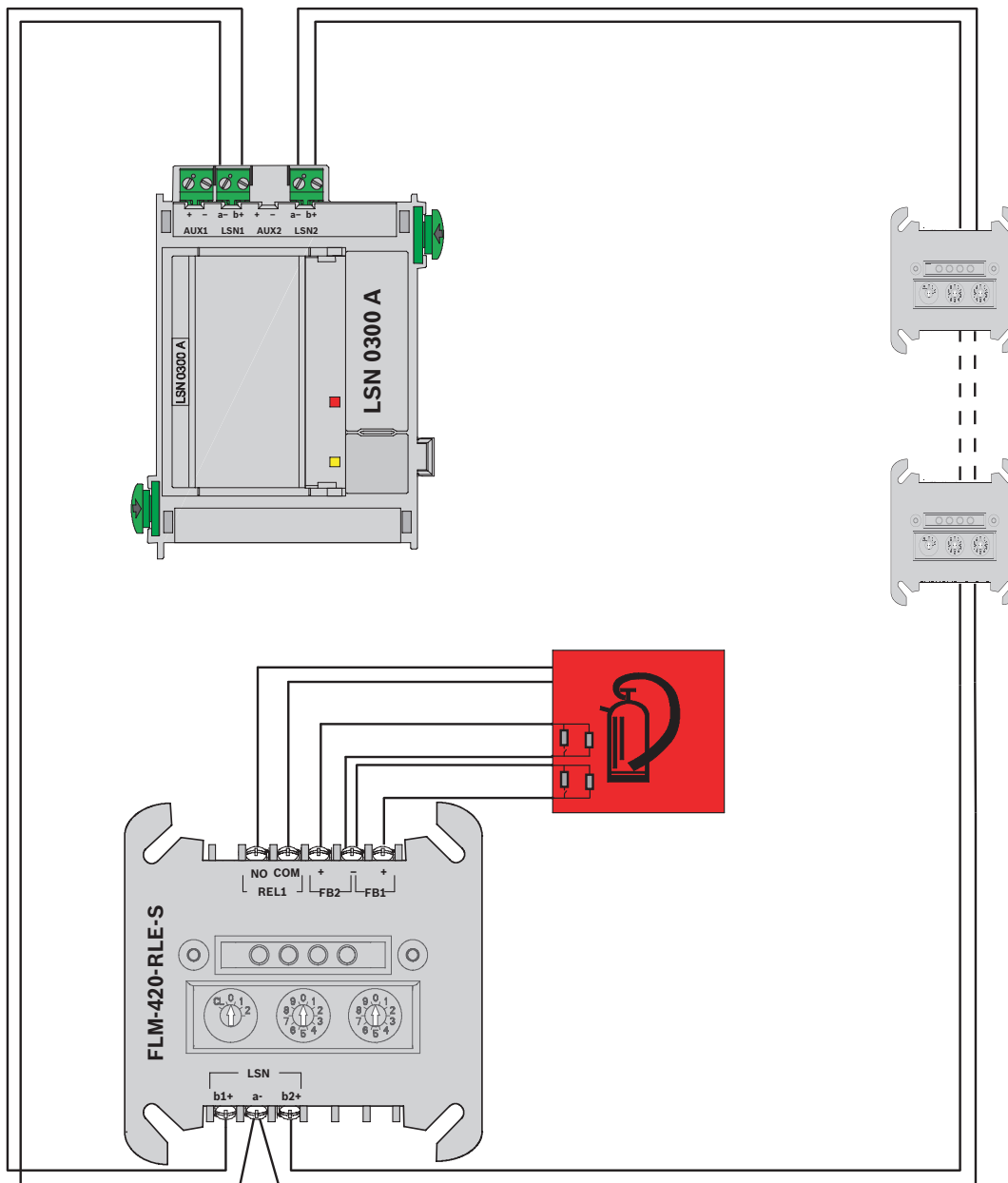
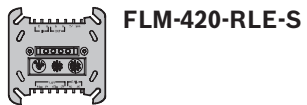
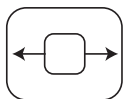
EN 54-2

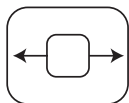




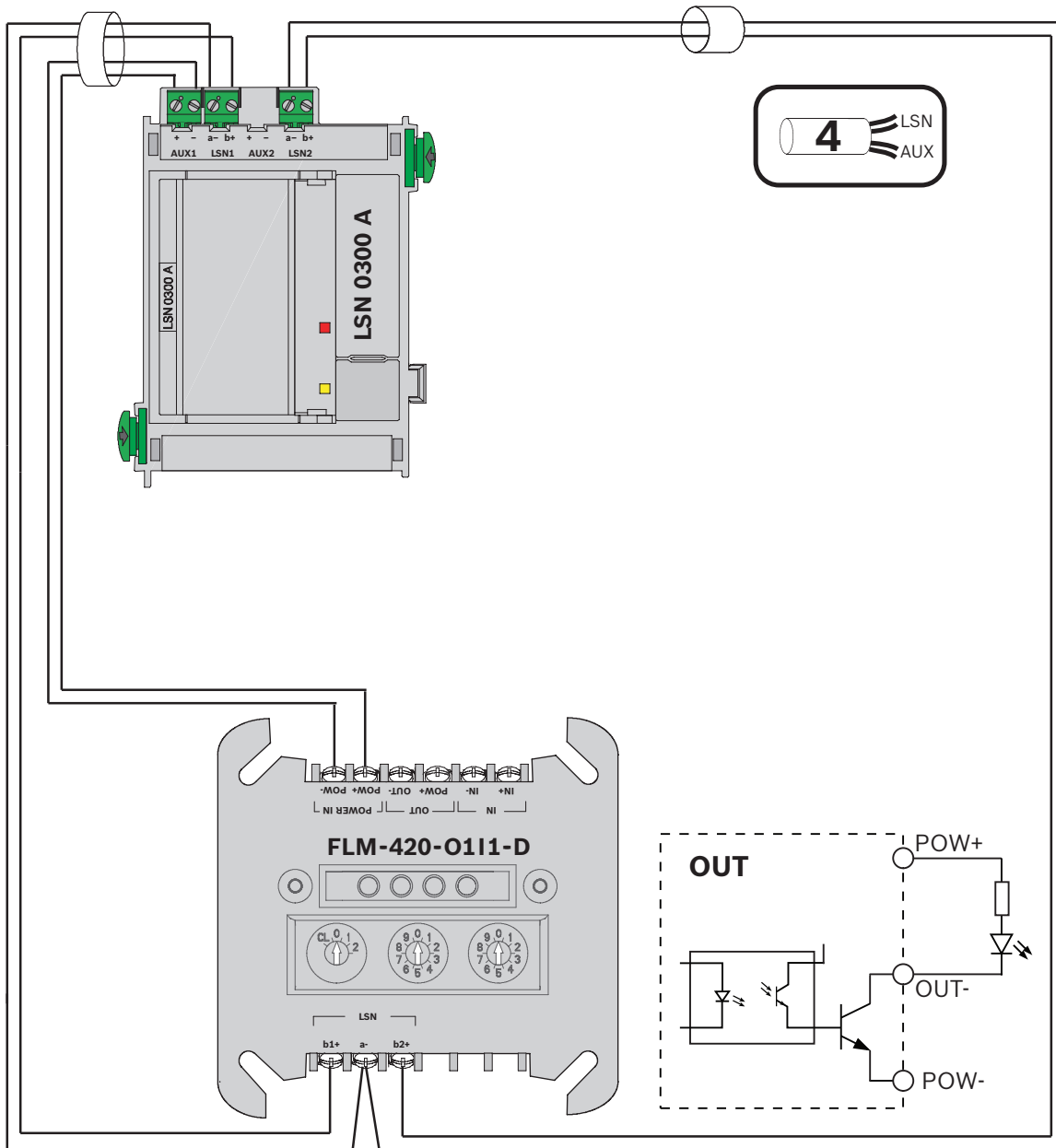
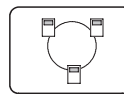
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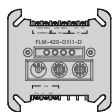
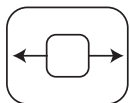




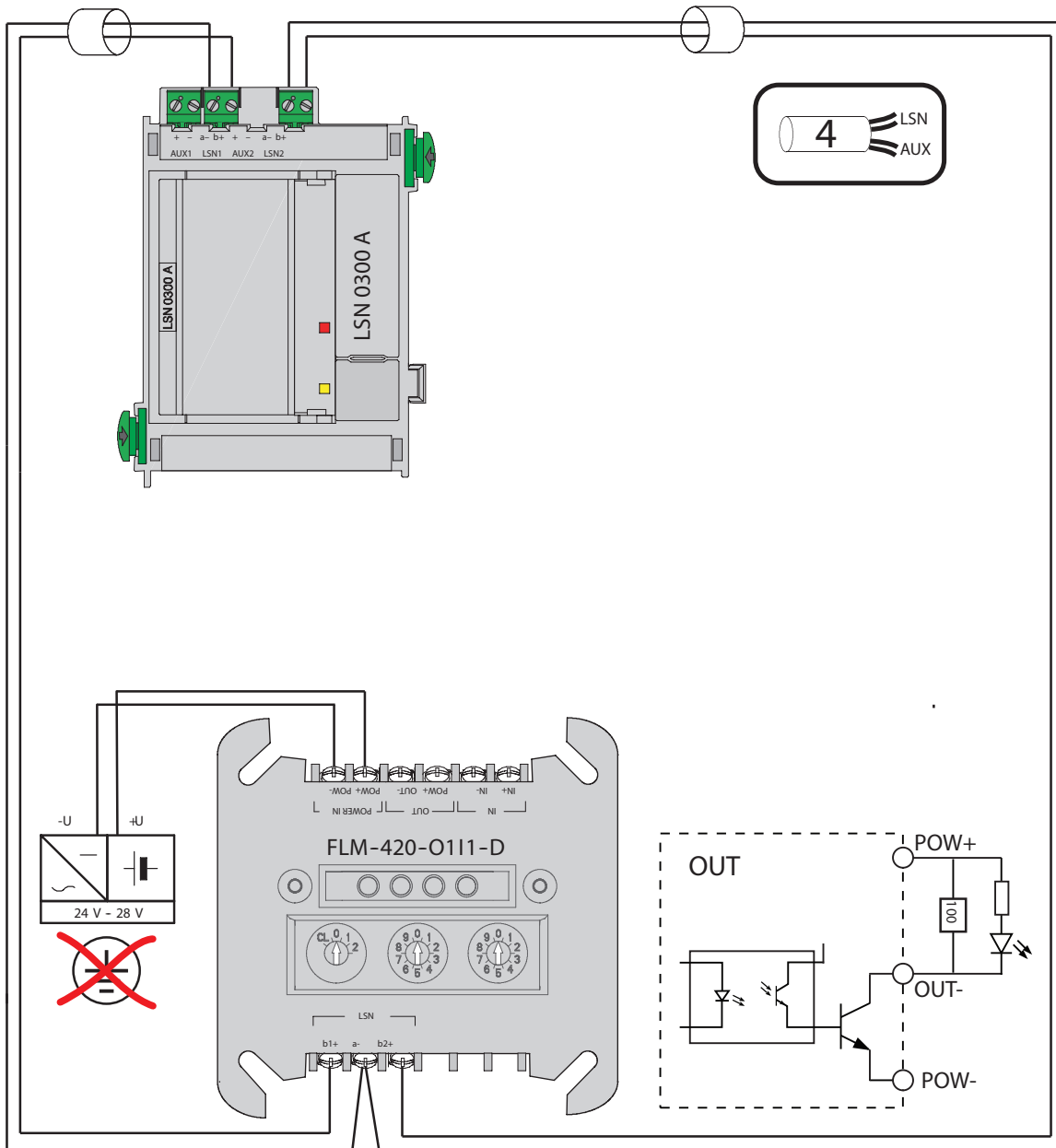
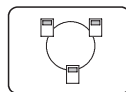


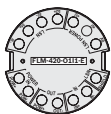
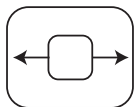
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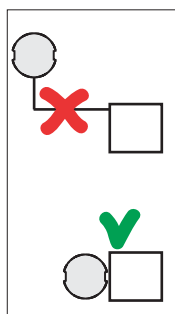
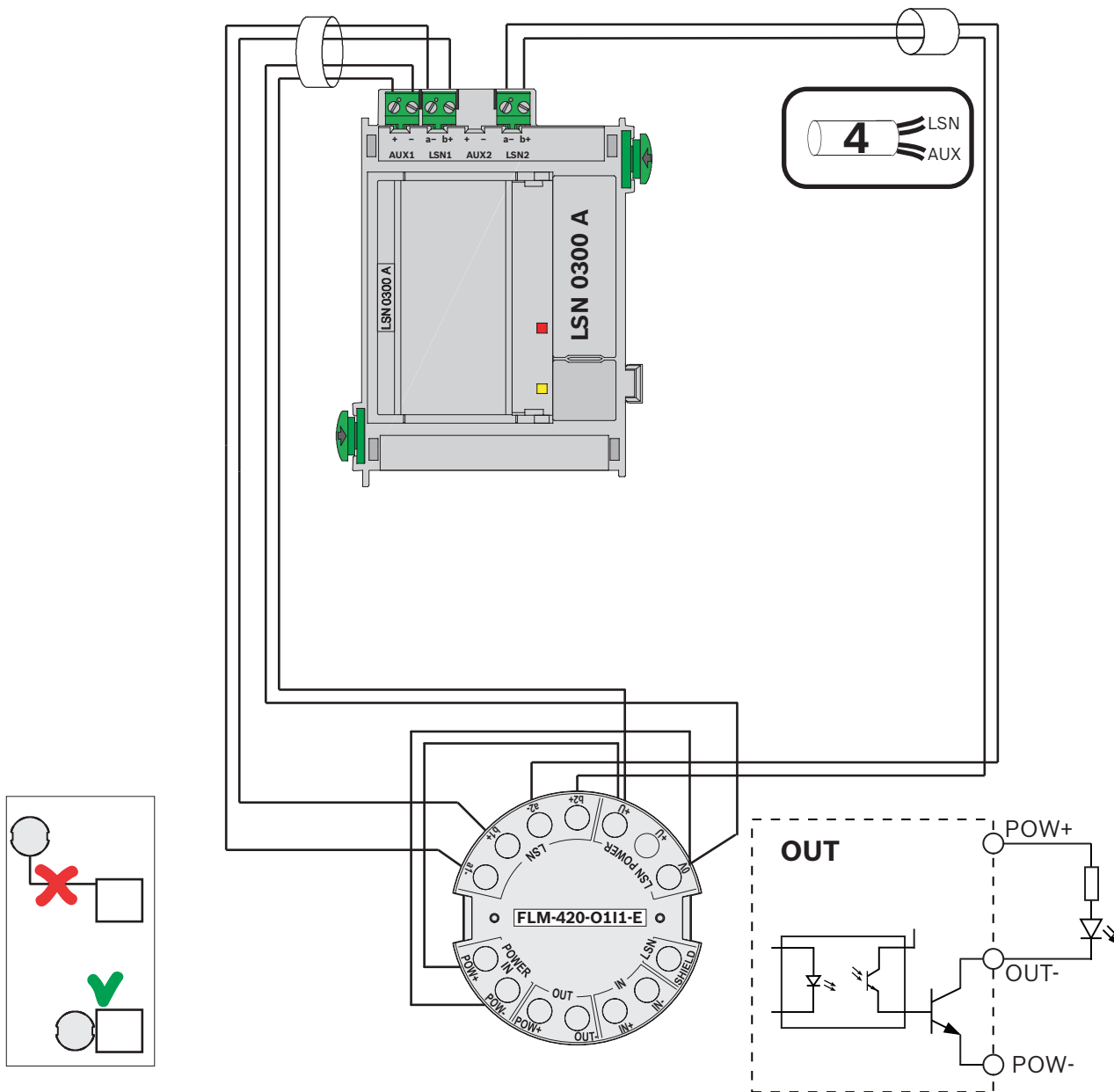
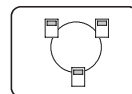


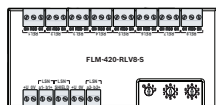
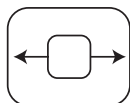
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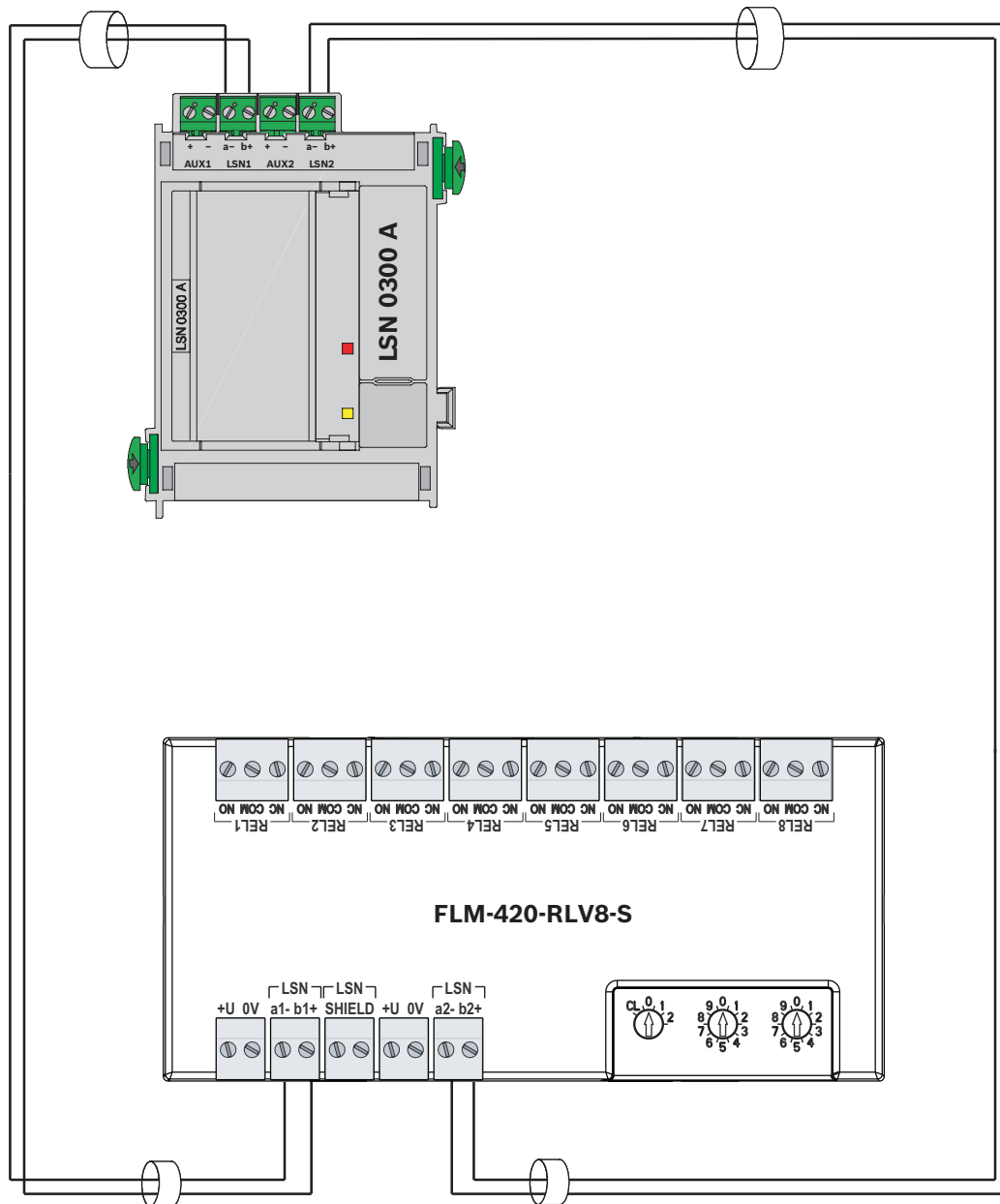
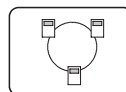


FLM-420-O111-E



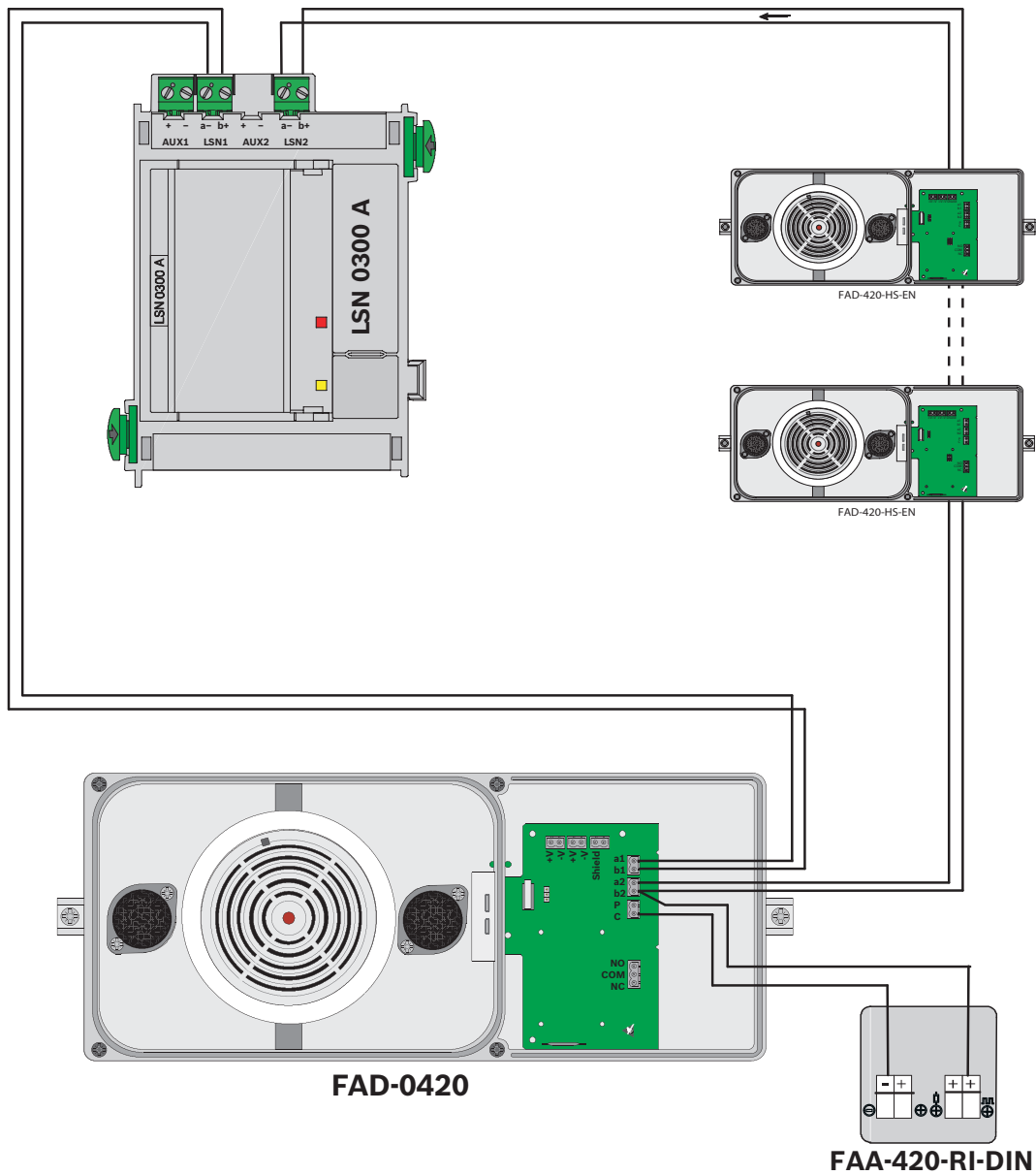


FLM-420-RLV8-S



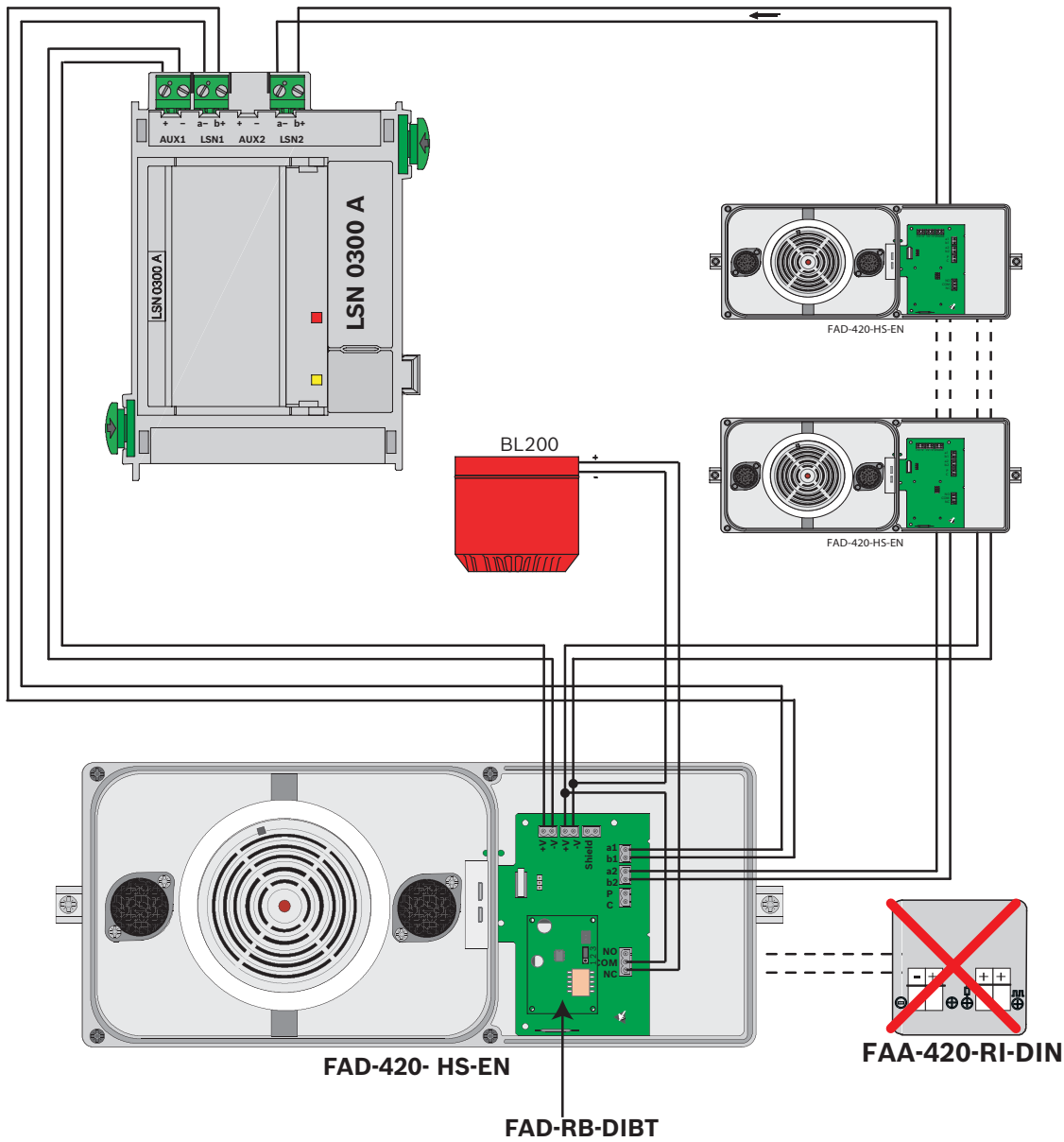


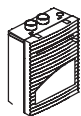
FAD-0420



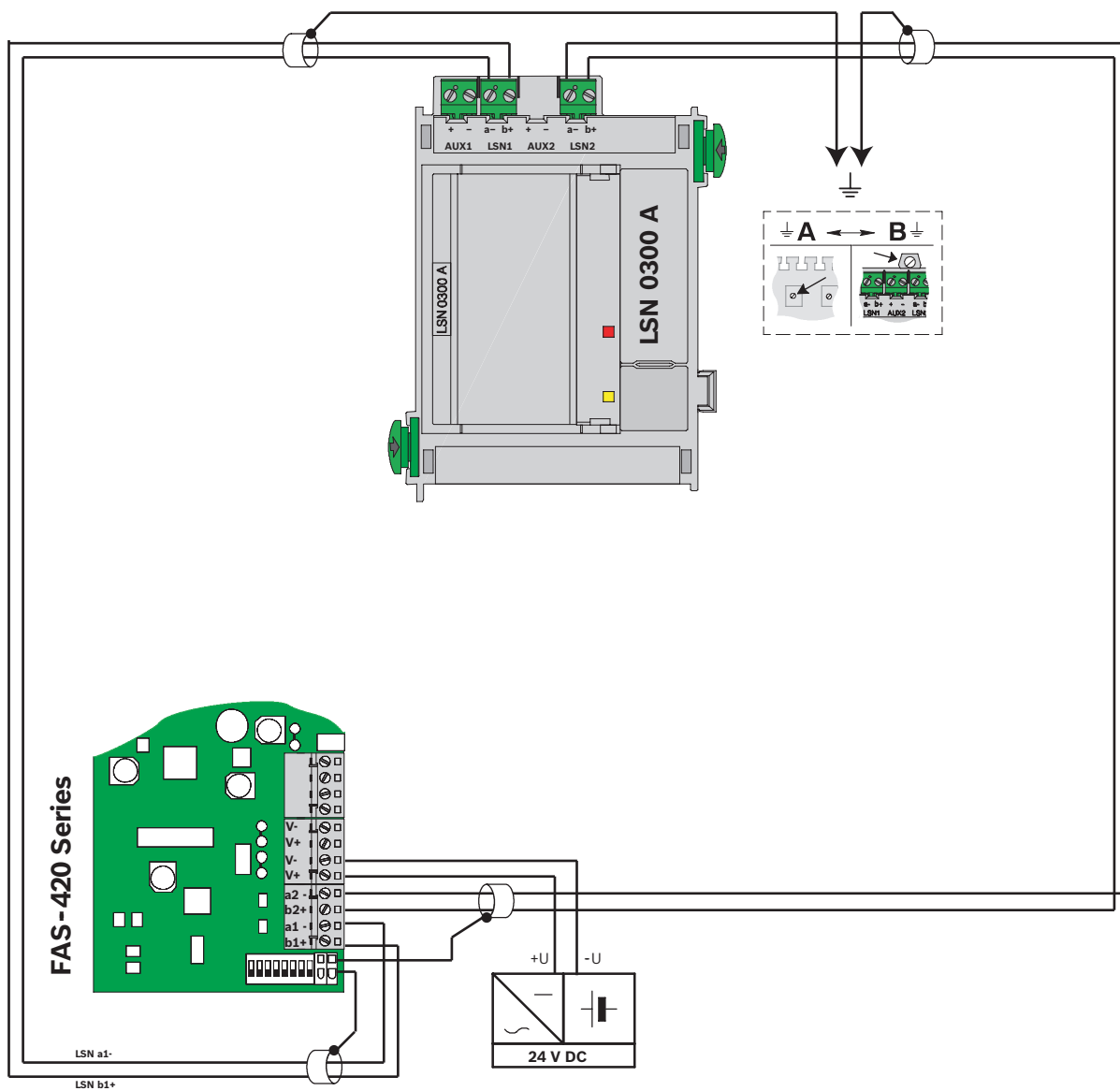


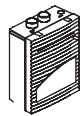
FAD-420-HS-EN



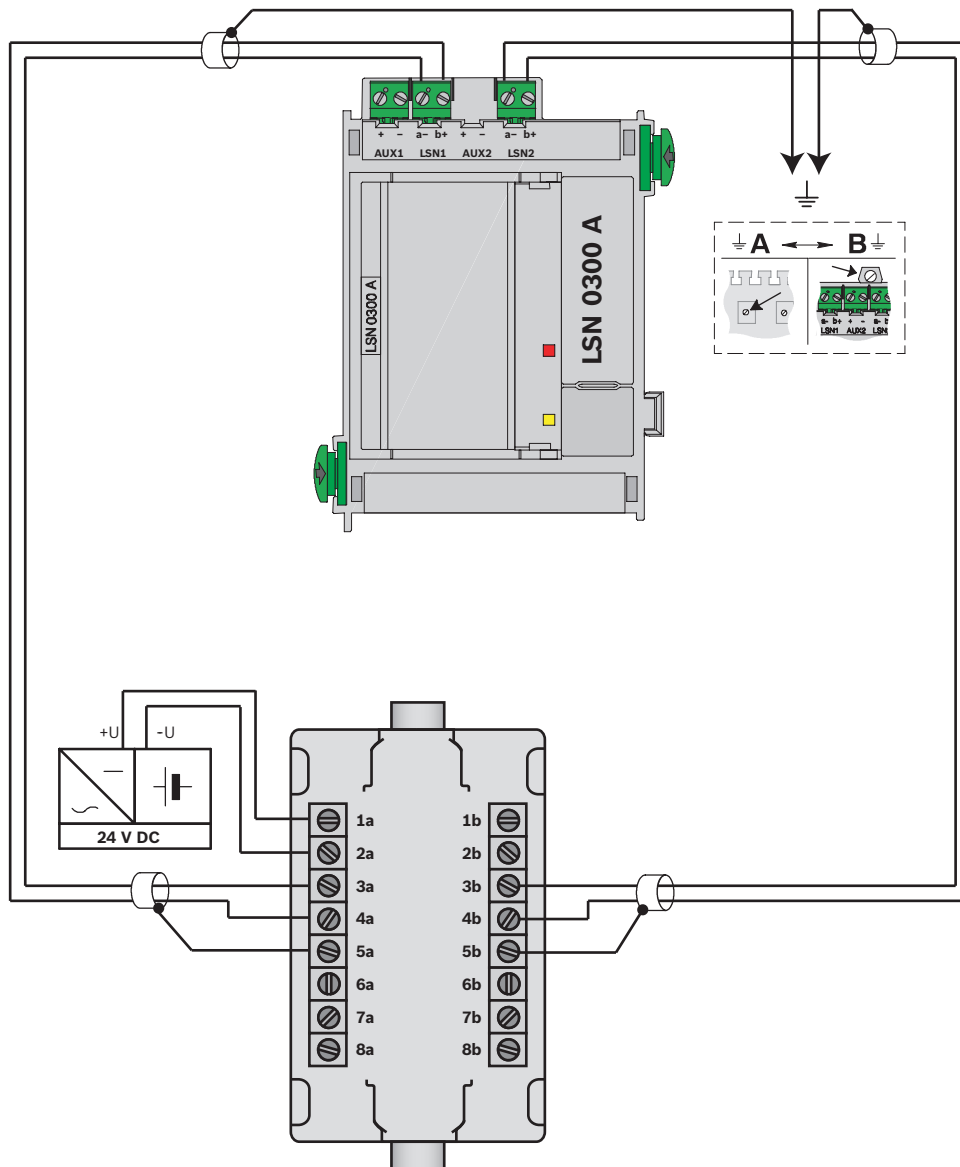


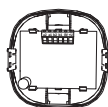
FAS-420 Series



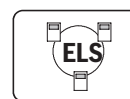


FAS-420-TM Series

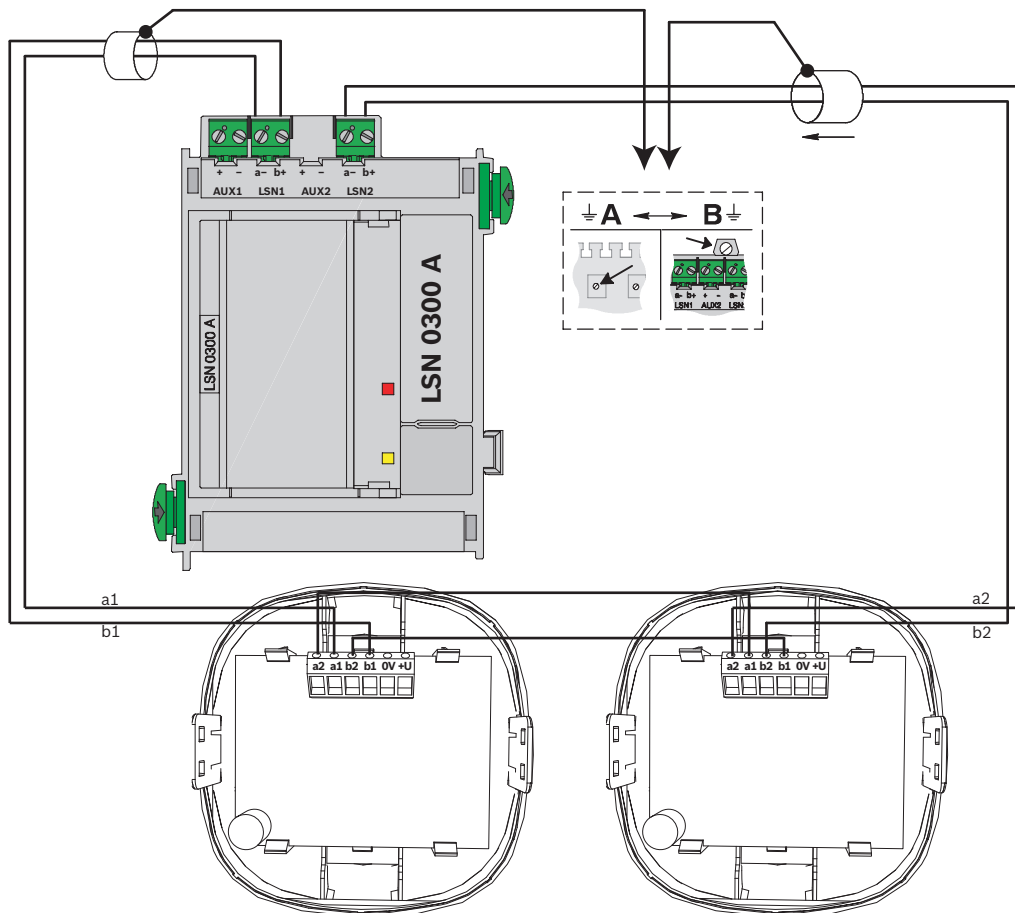




FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A



VdS 2489

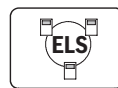


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

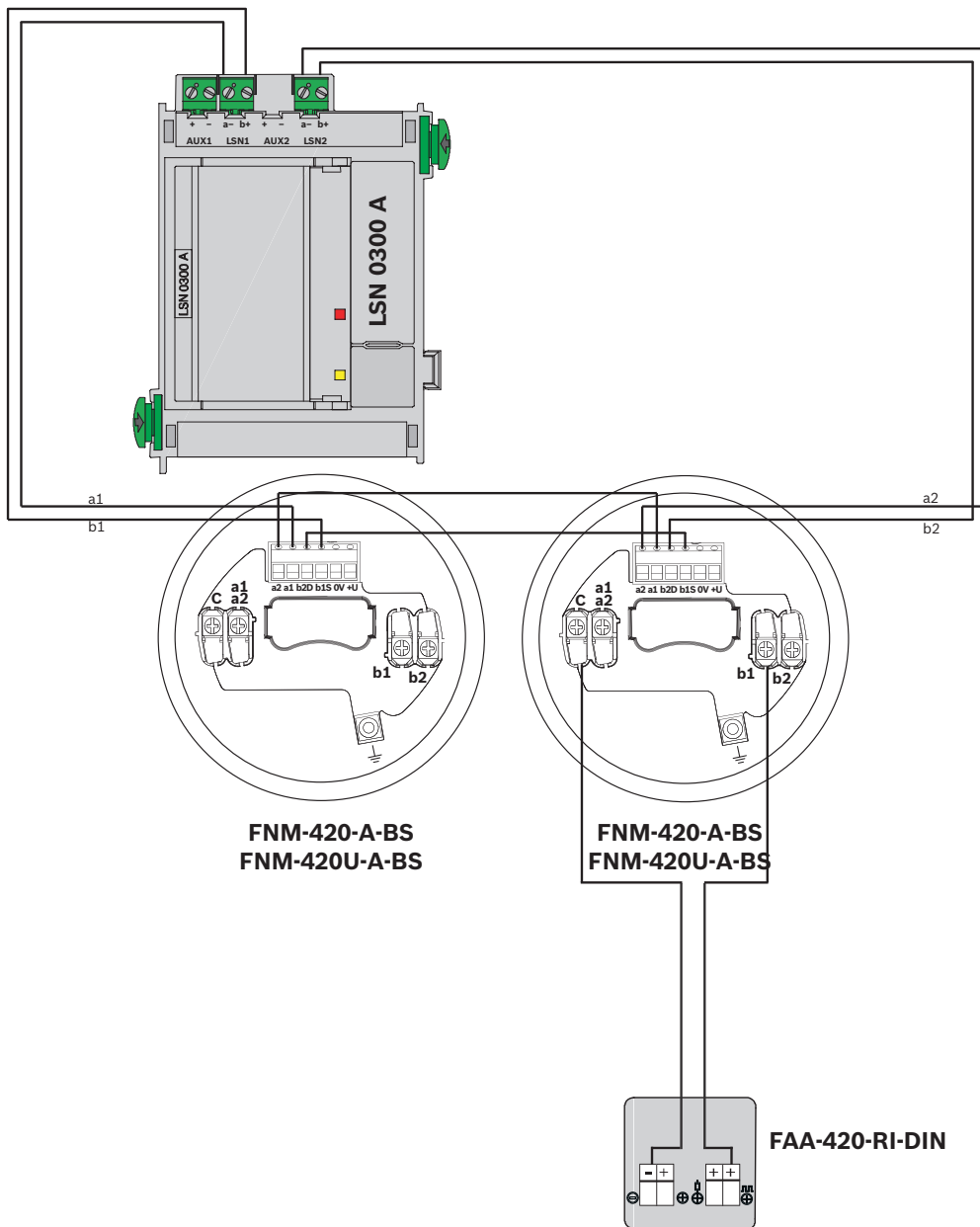
FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



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



VdS 2489



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

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

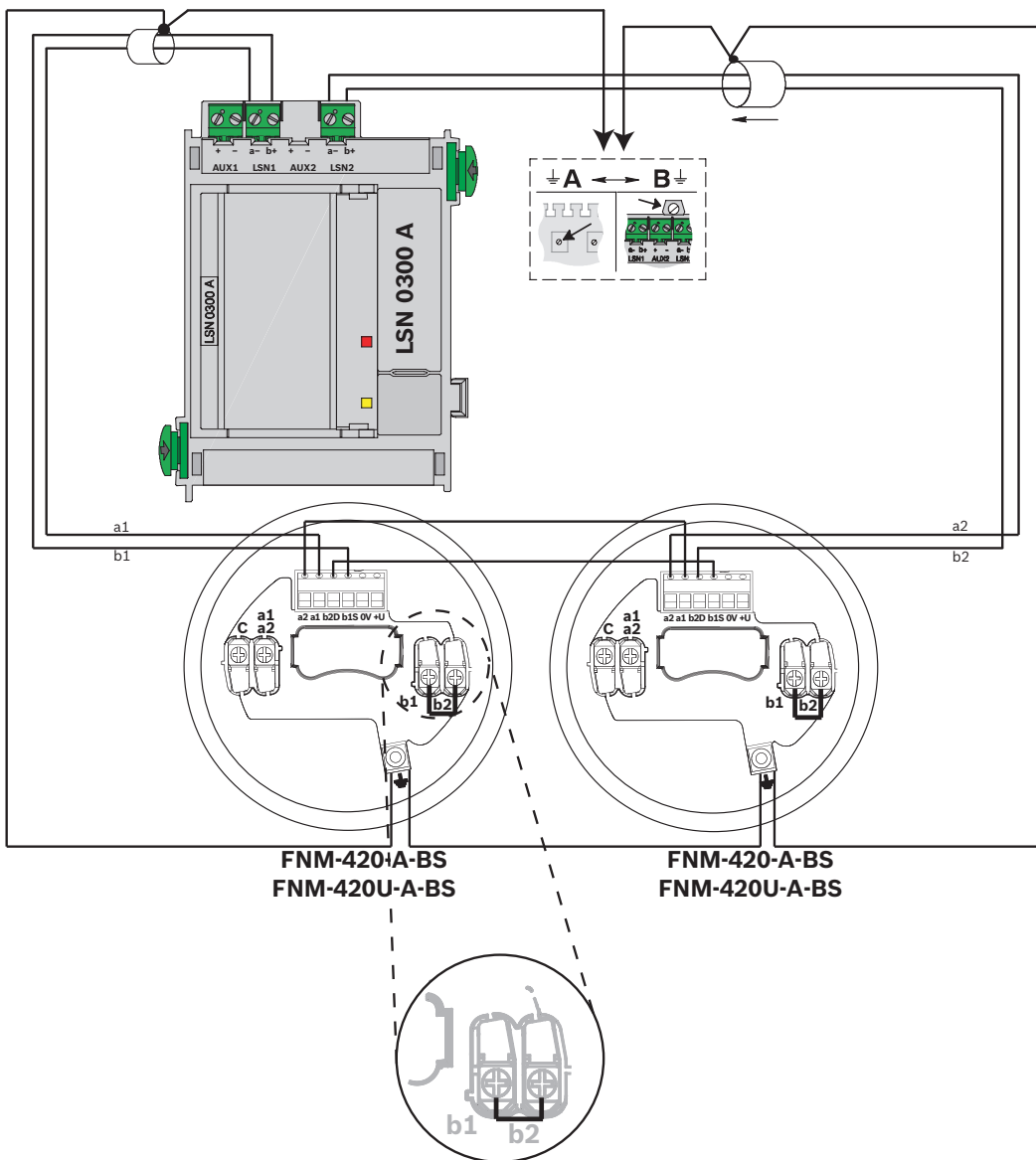
FAA-420-RI-DIN



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

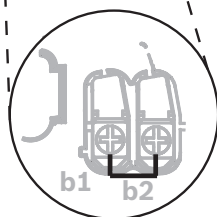


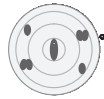
VdS 2489



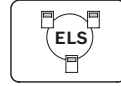
FNM-420-A-BS
FNM-420U-A-BS

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

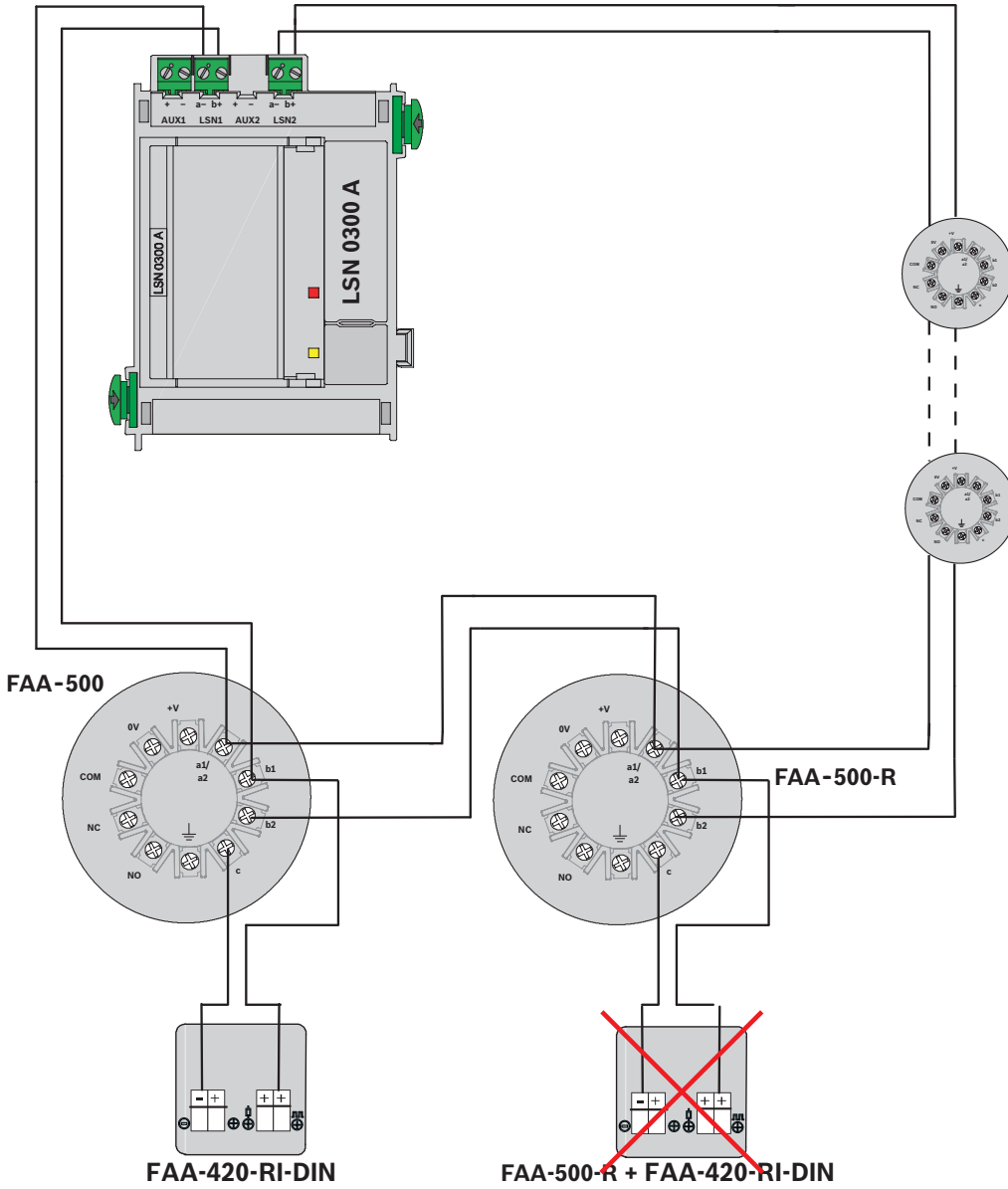




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

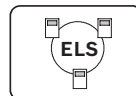


VdS 2489

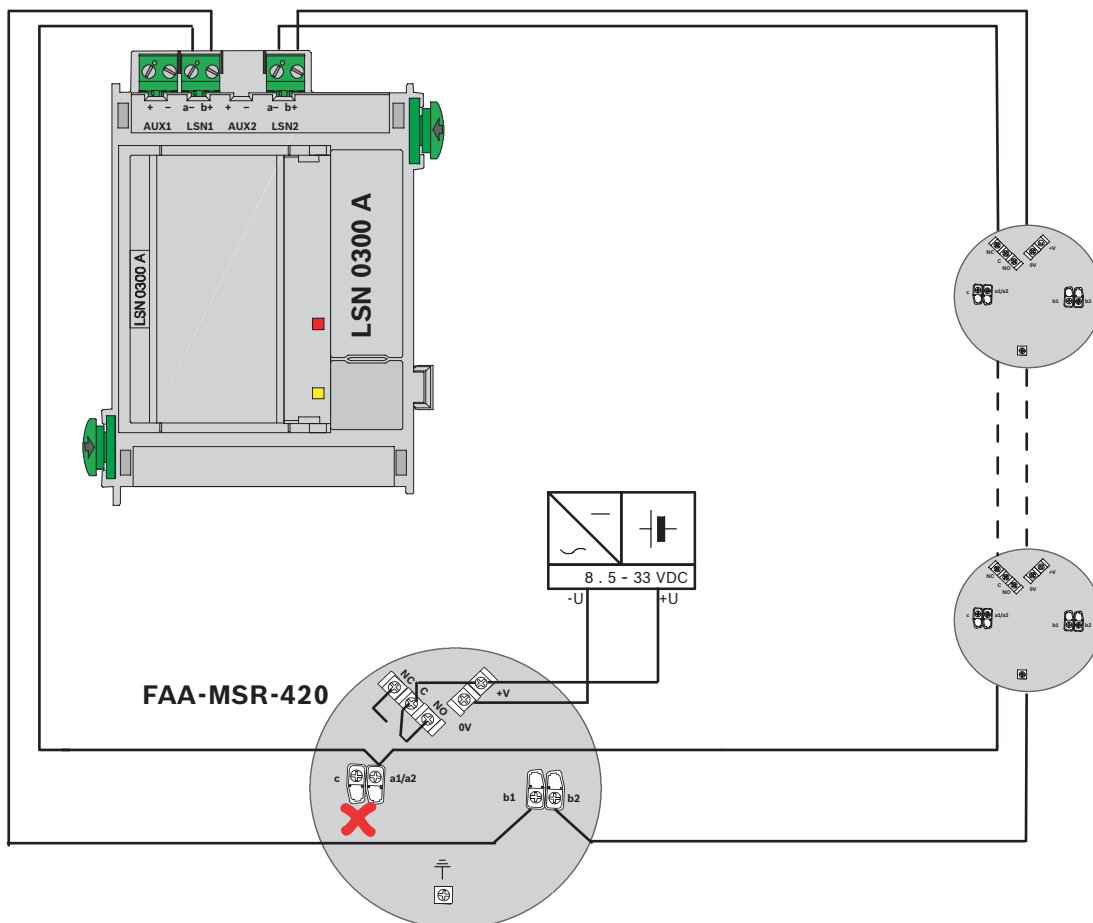




FAP-425-O/O-R
 FAP-425-OT/OT-R
 FAP-425-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R

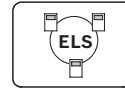


VdS 2489

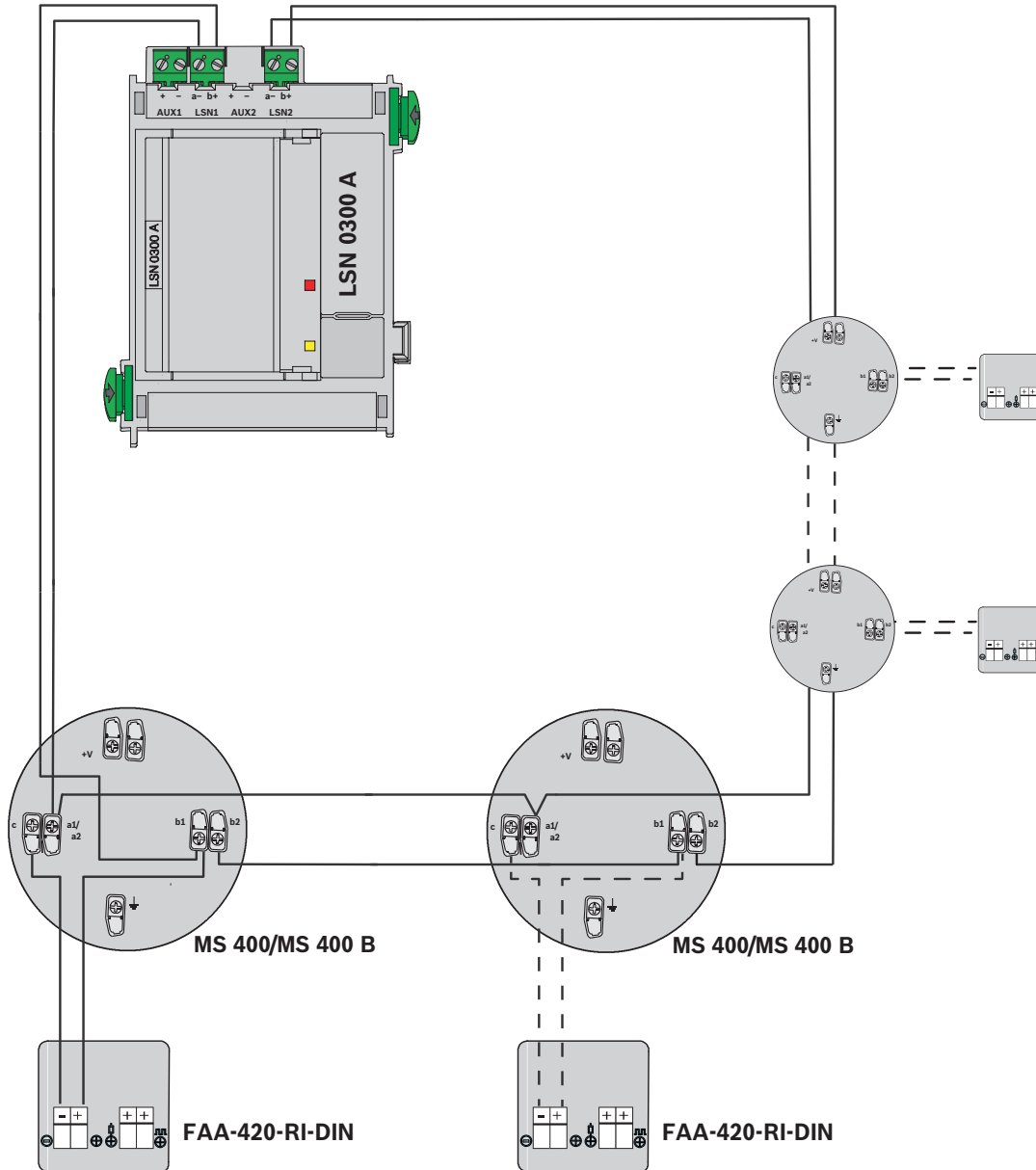


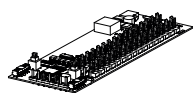


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470

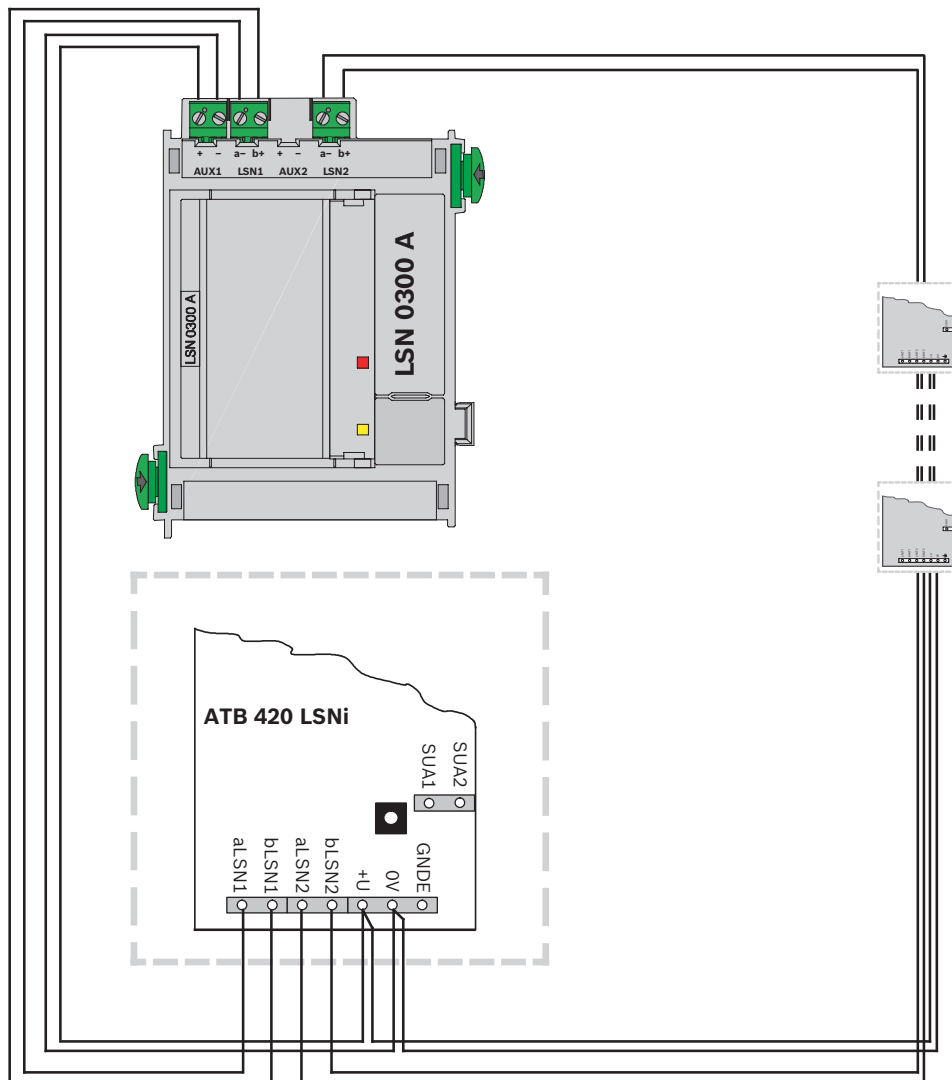
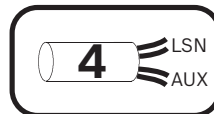
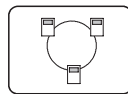


Vds 2489



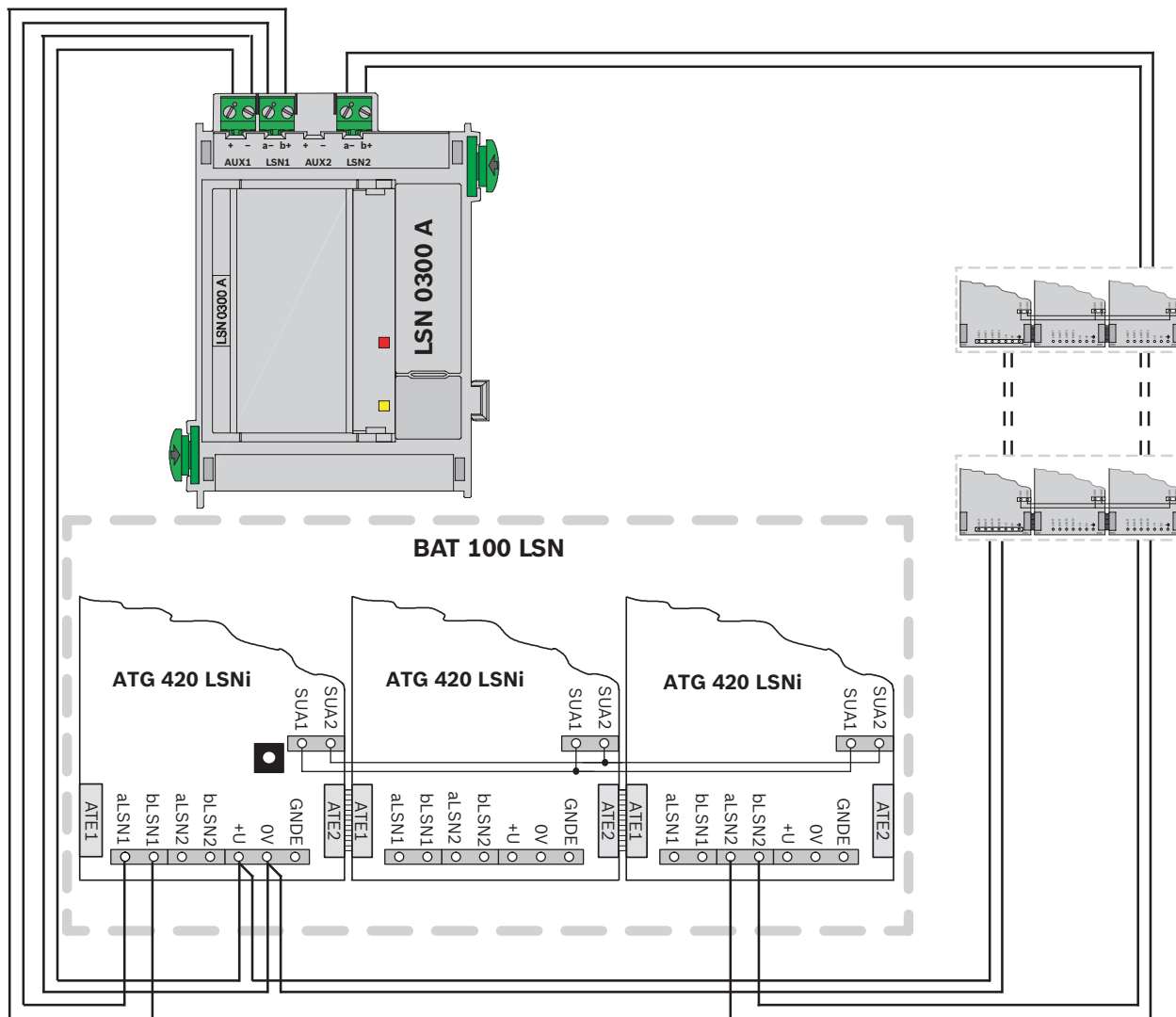
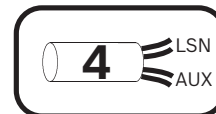
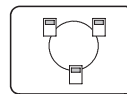


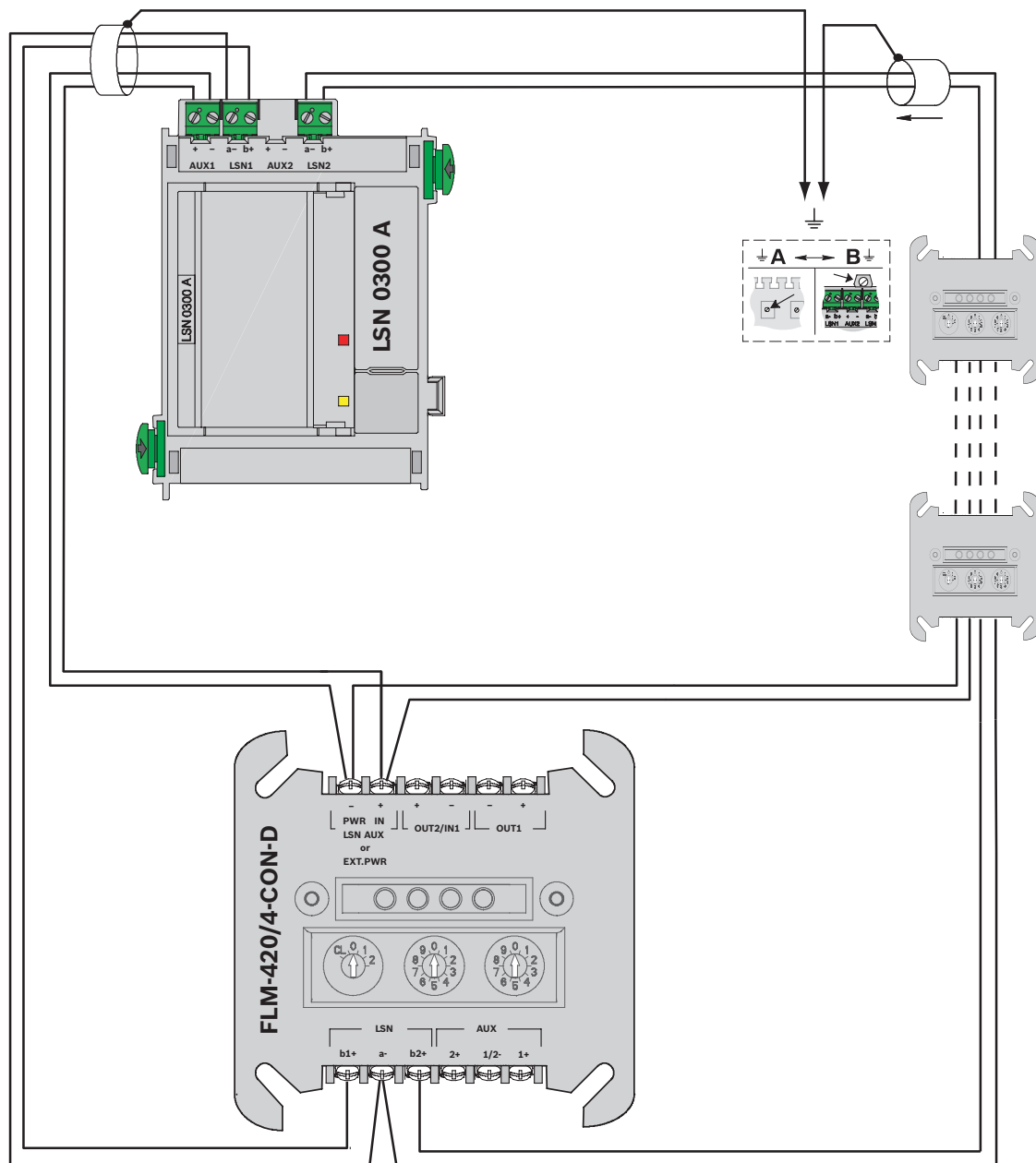
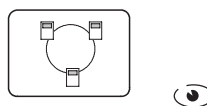
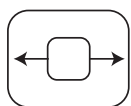
ATB 420 LSNi

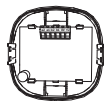




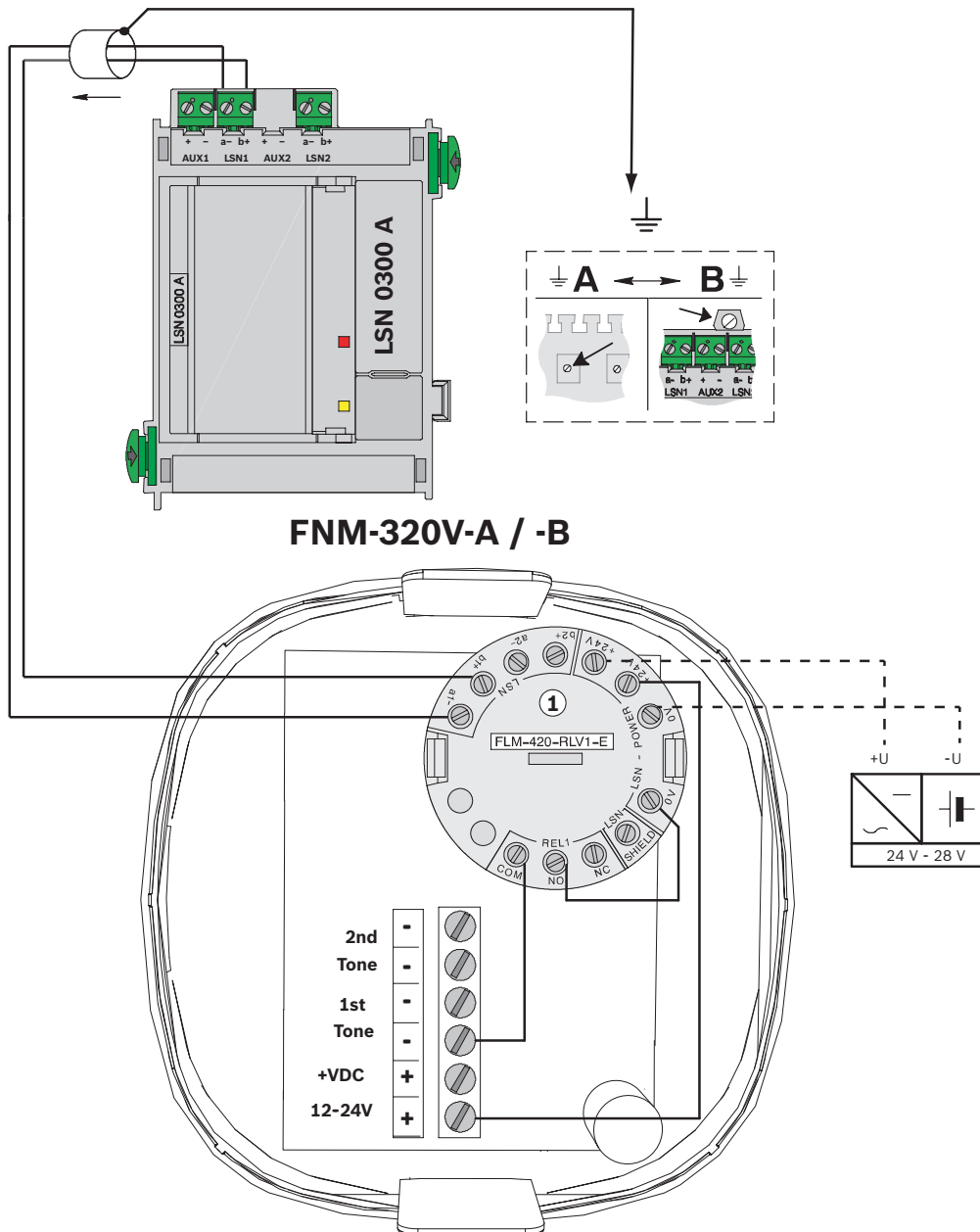
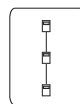
BAT 100 LSN
ATG 420 LSNi





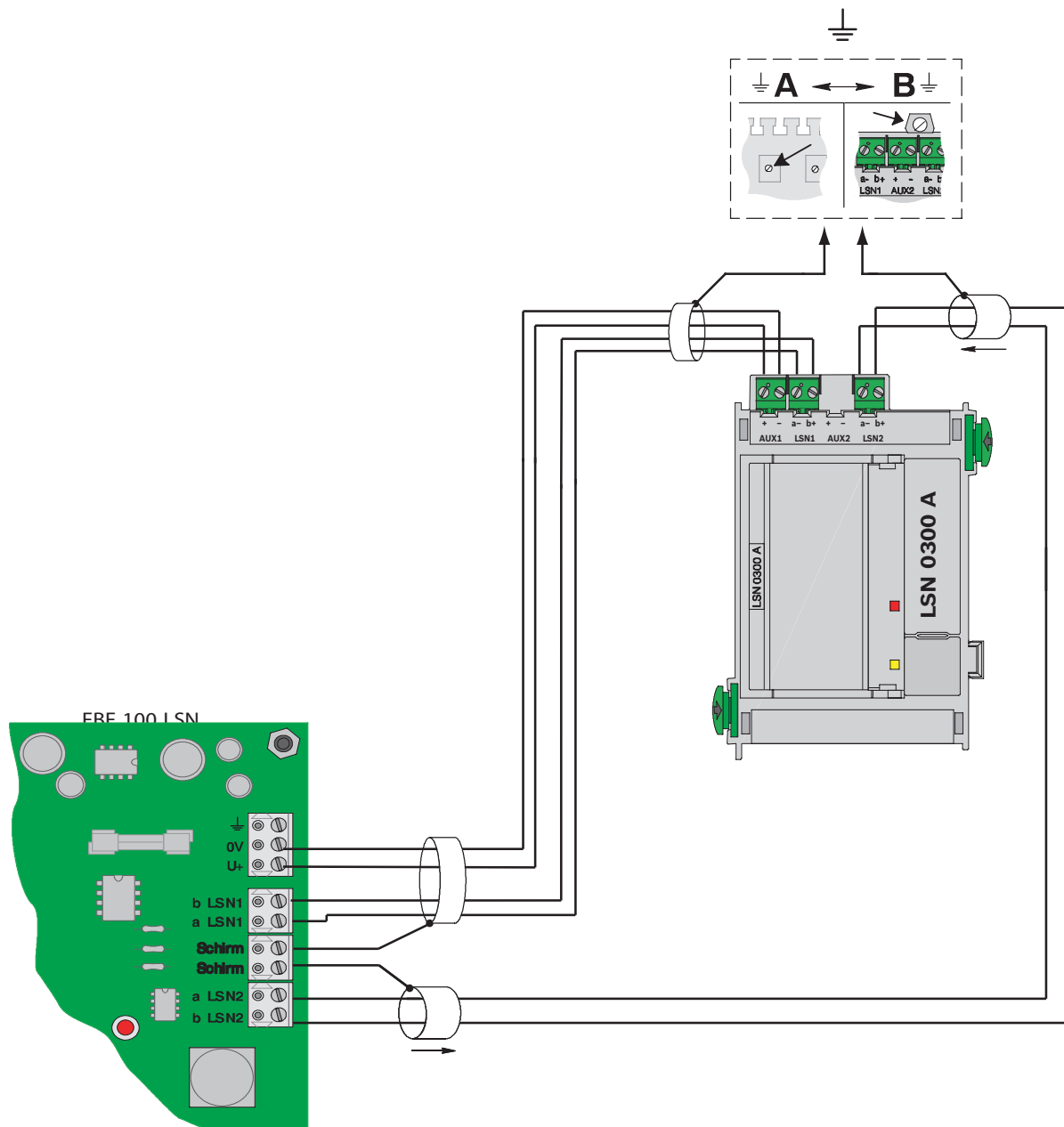
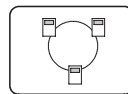


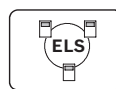
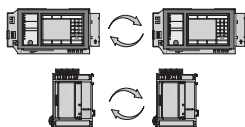
FNM-320V-A / -B



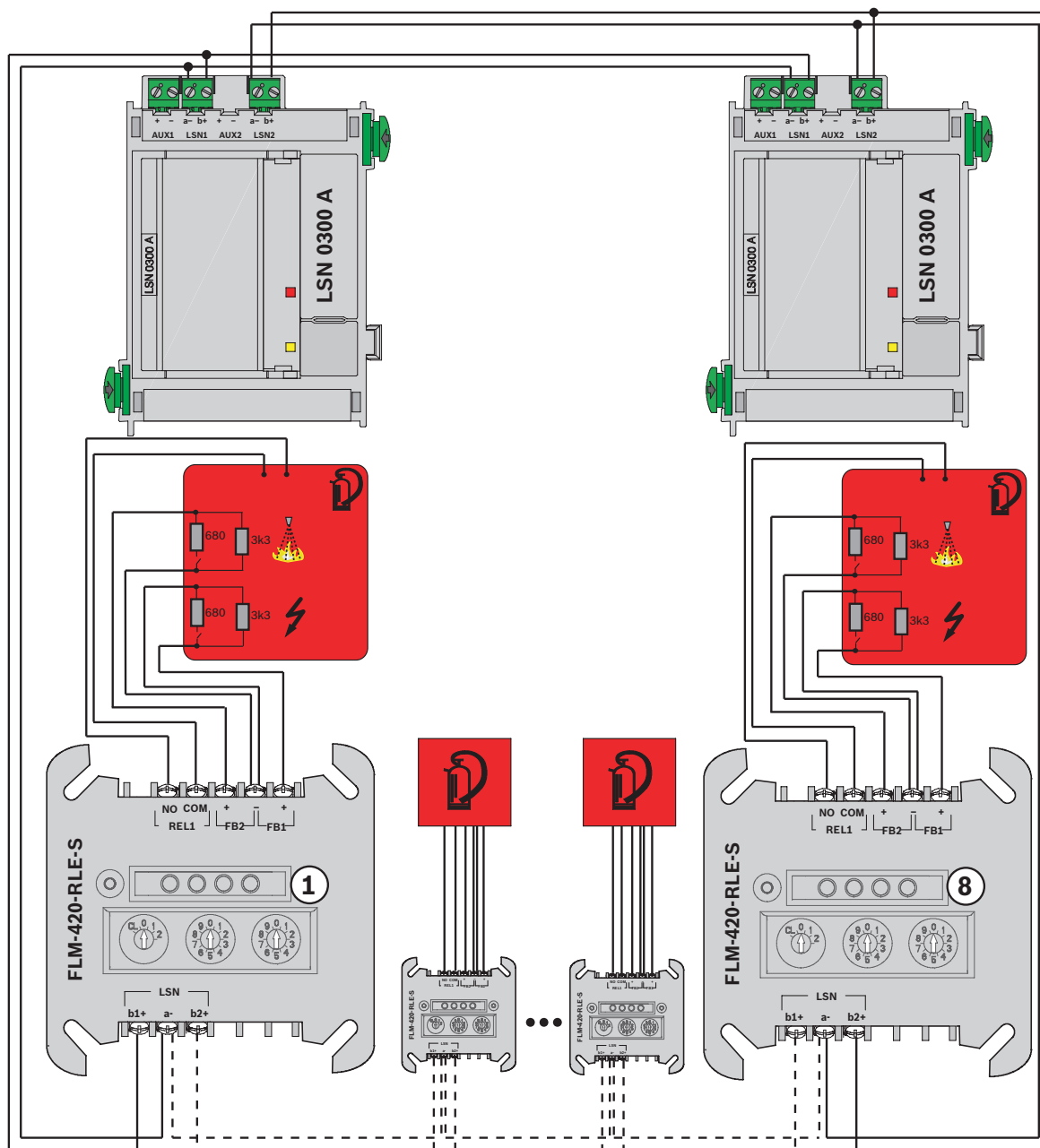


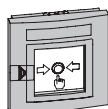
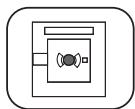
FBF 100 LSN



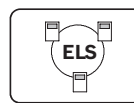


VdS 2489

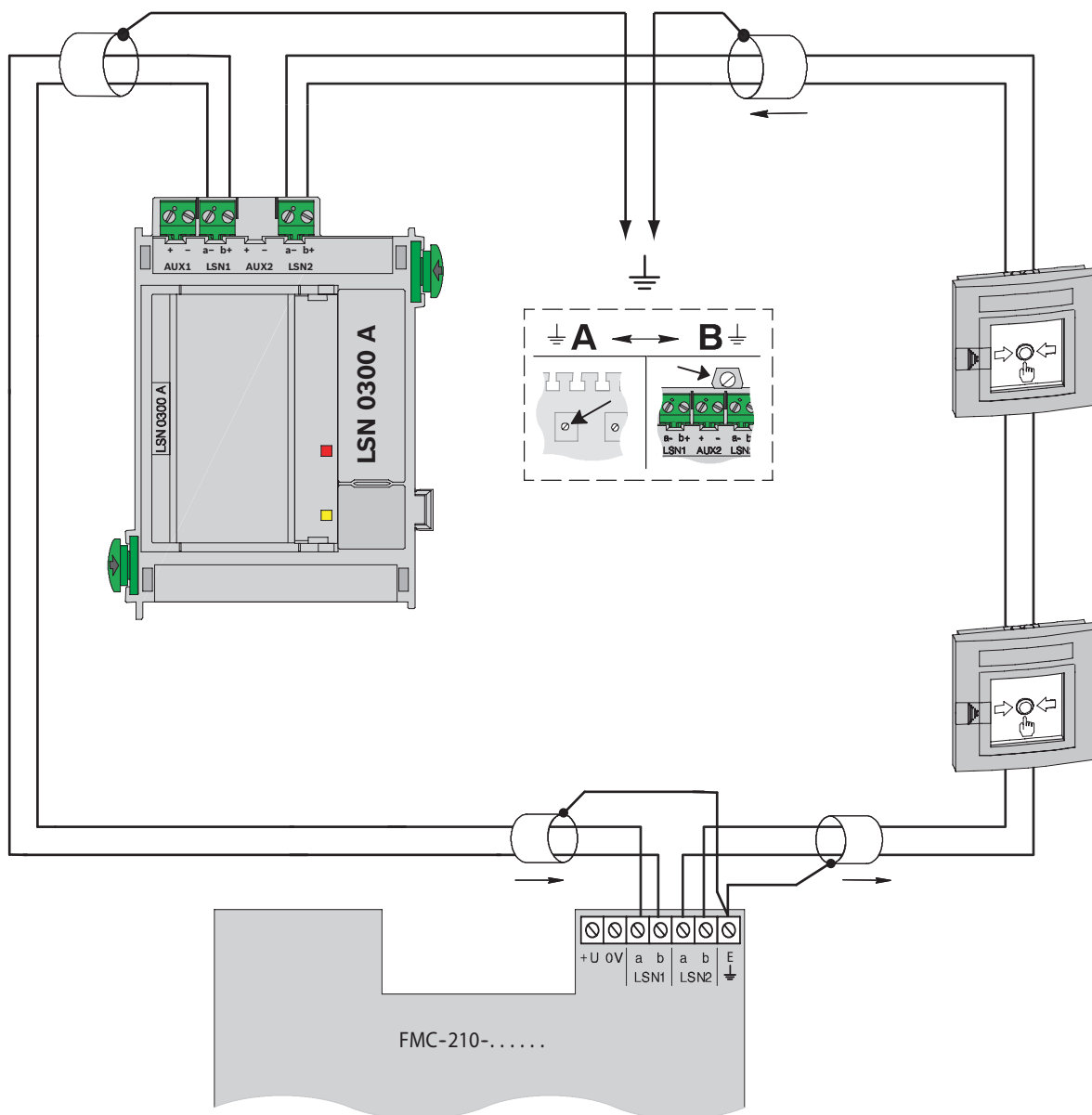


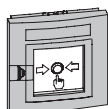
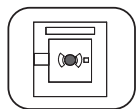


FMC-210-...

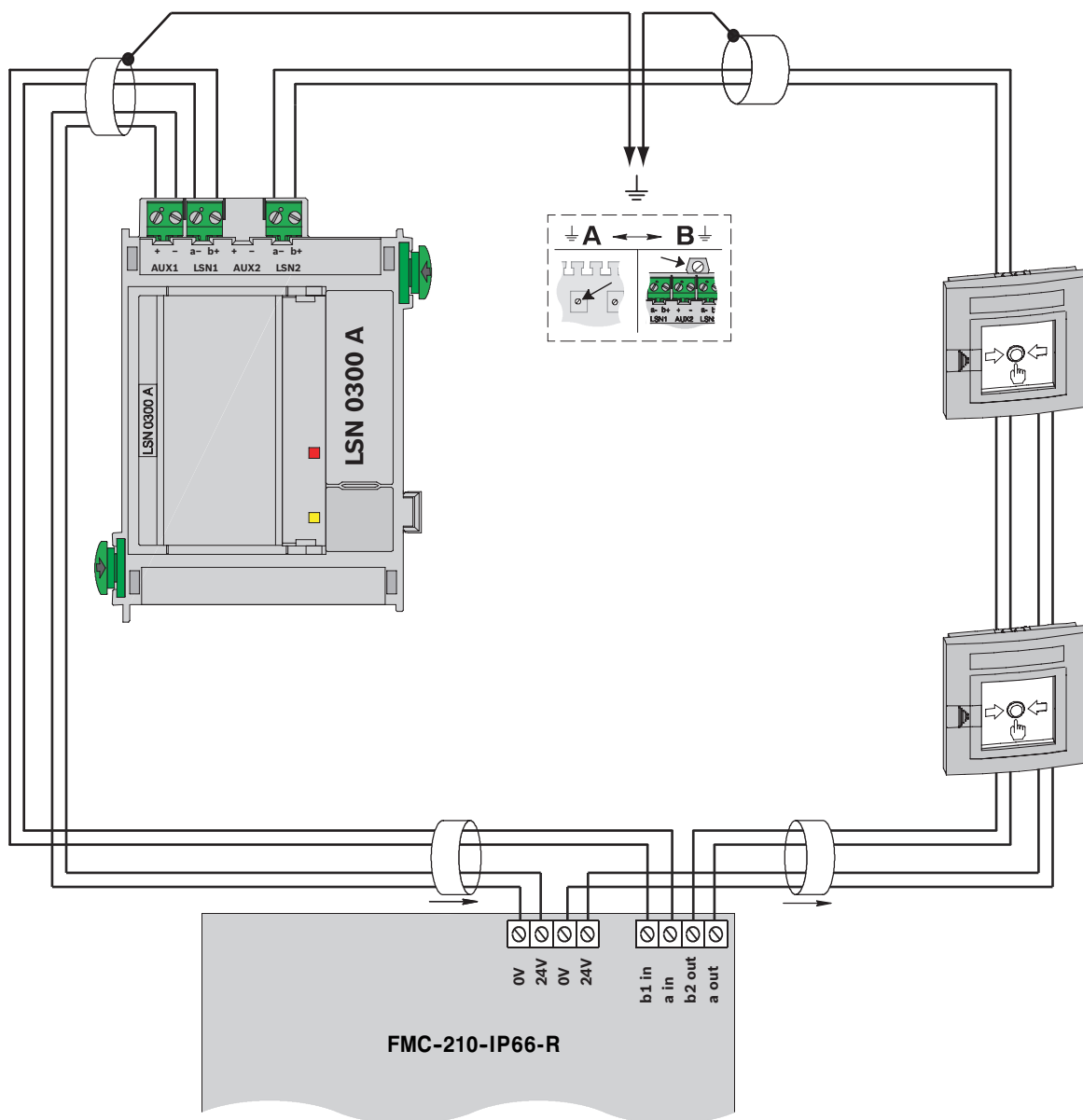
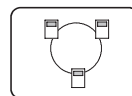


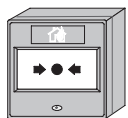
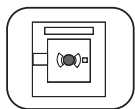
VdS 2489



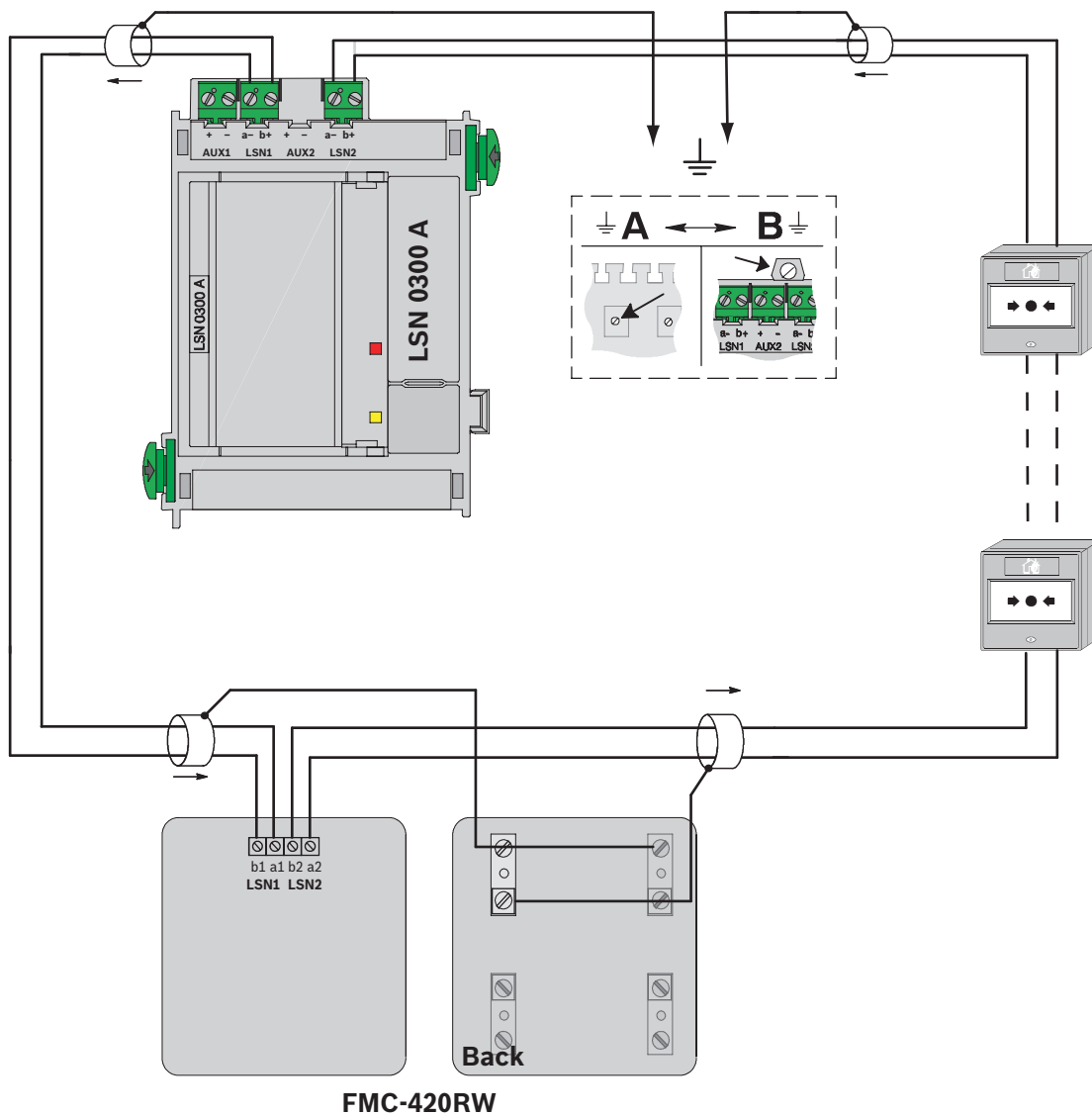
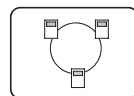


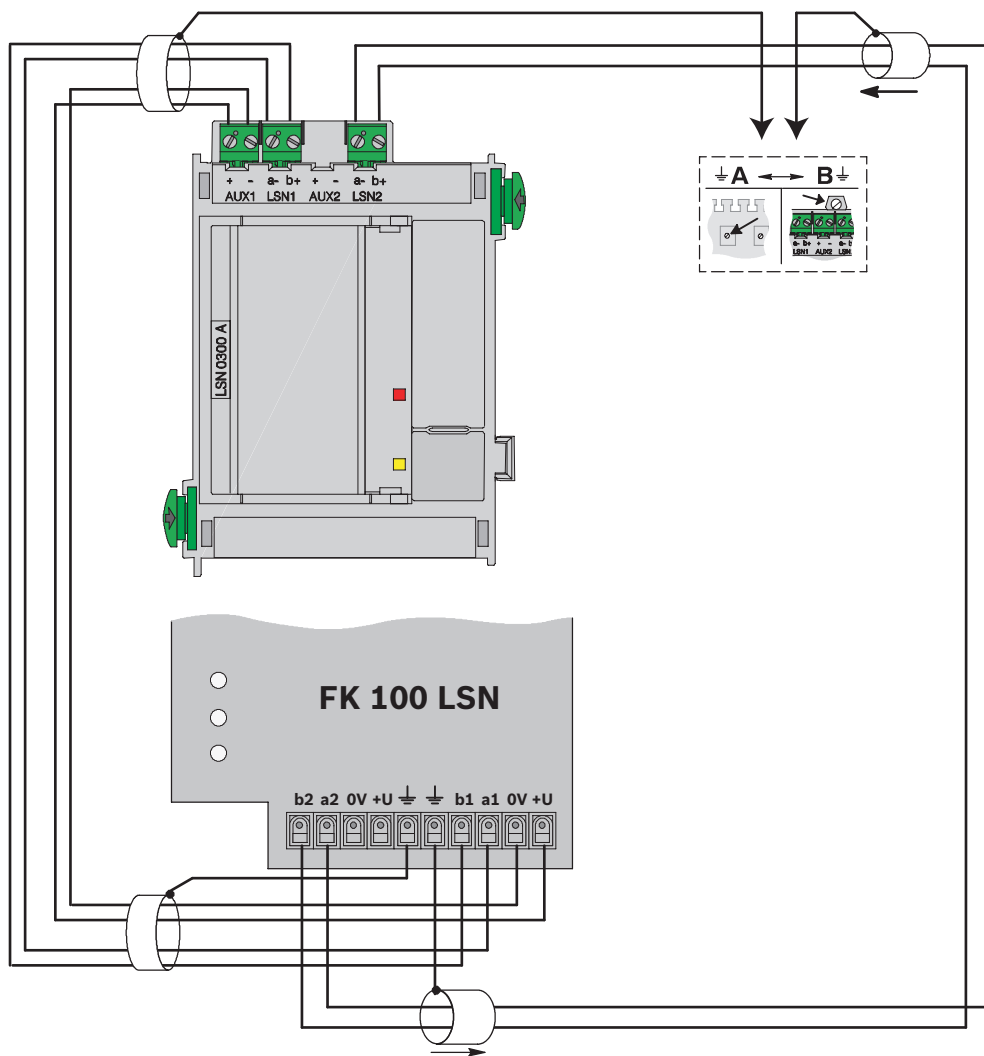
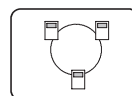
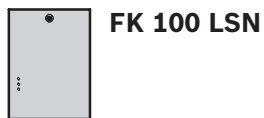
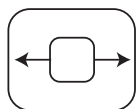
FMC-210-IP66-R



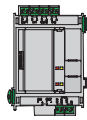
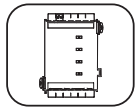


FMC-420RW-HSGRD
 FMC-420RW-HSRRD
 FMC-420RW-GFGRD
 FMC-420RW-GFRRD
 FMC-420RW-GSGRD
 FMC-420RW-GSRRD

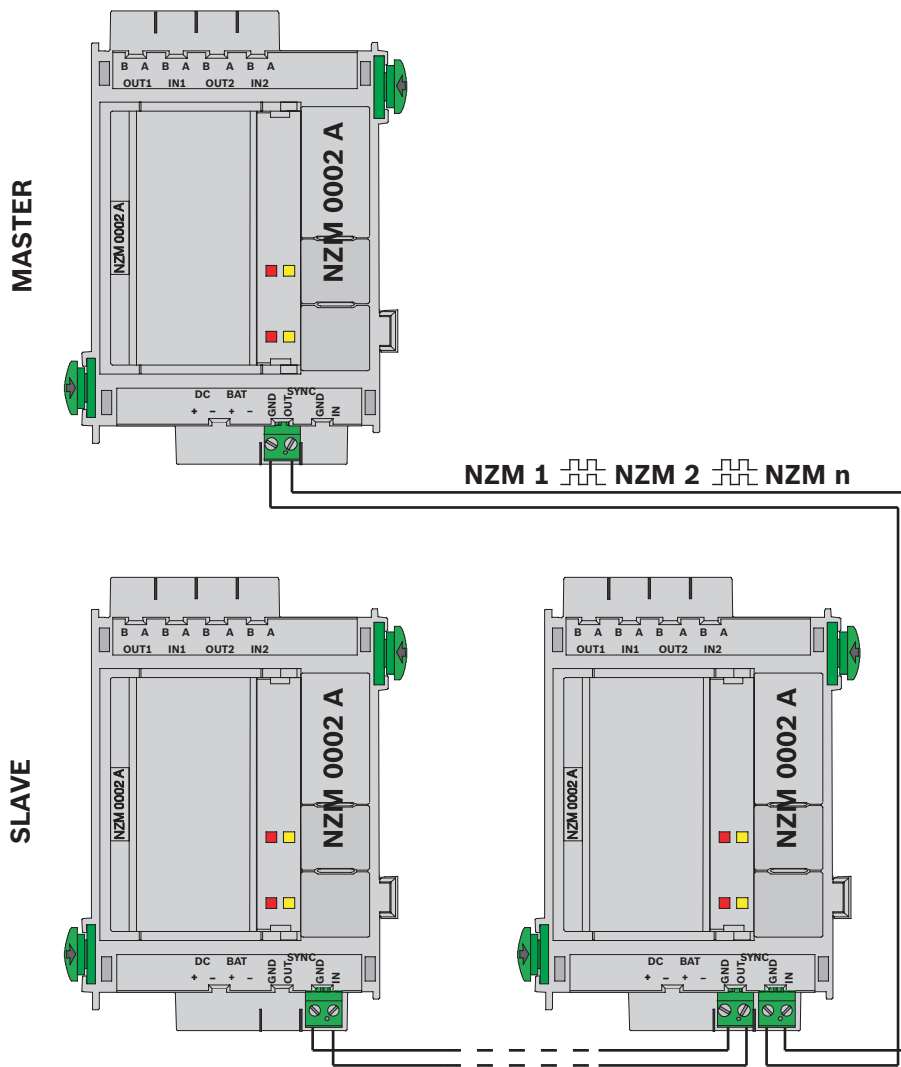


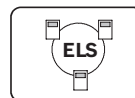


3.3.5 NZM 0002 A

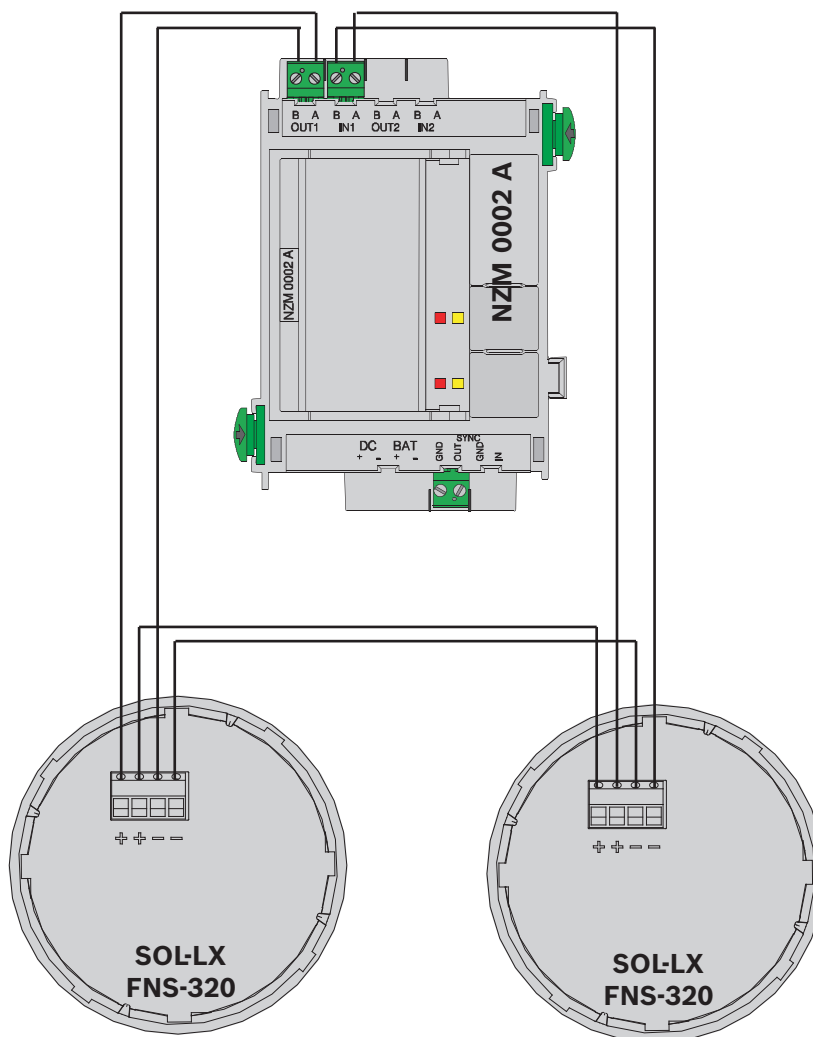


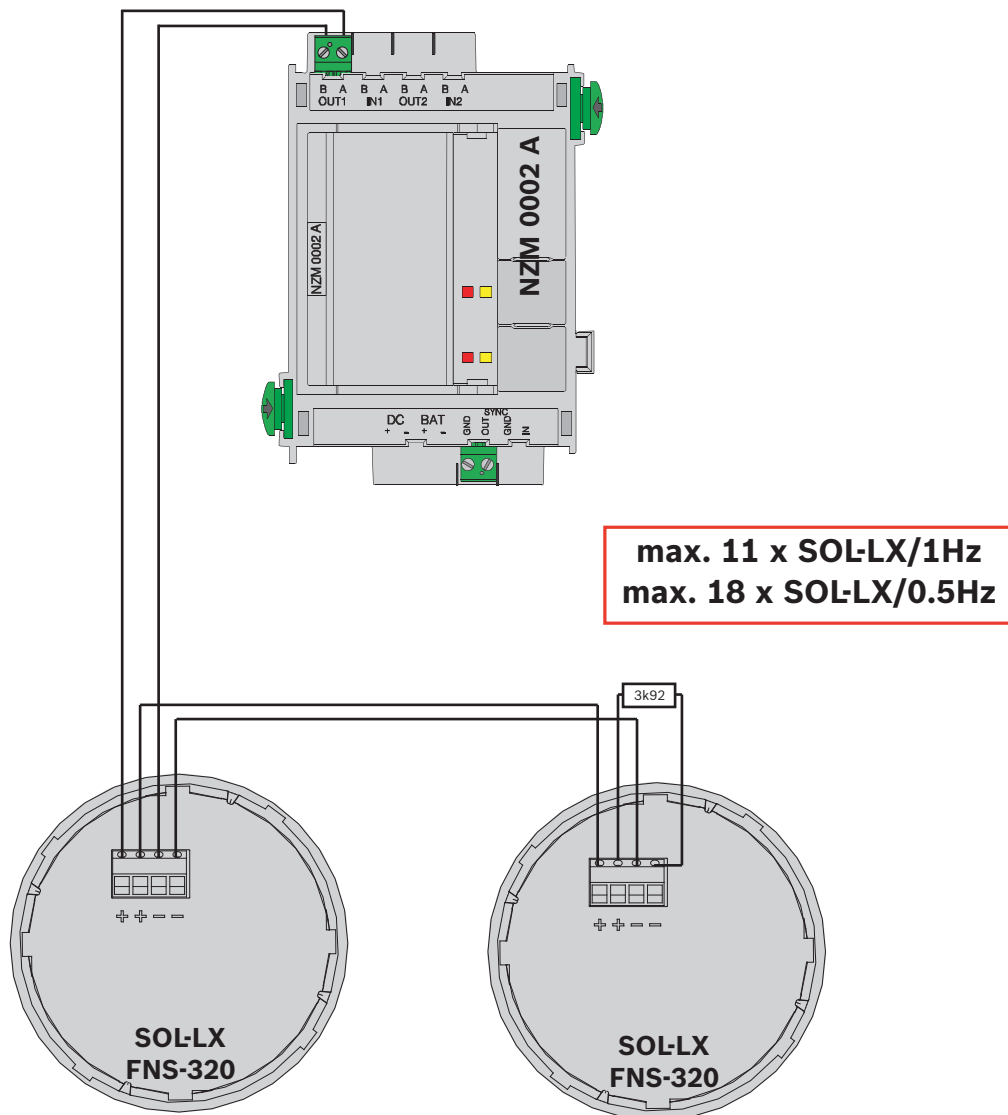
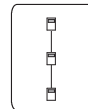
NZM 0002 A

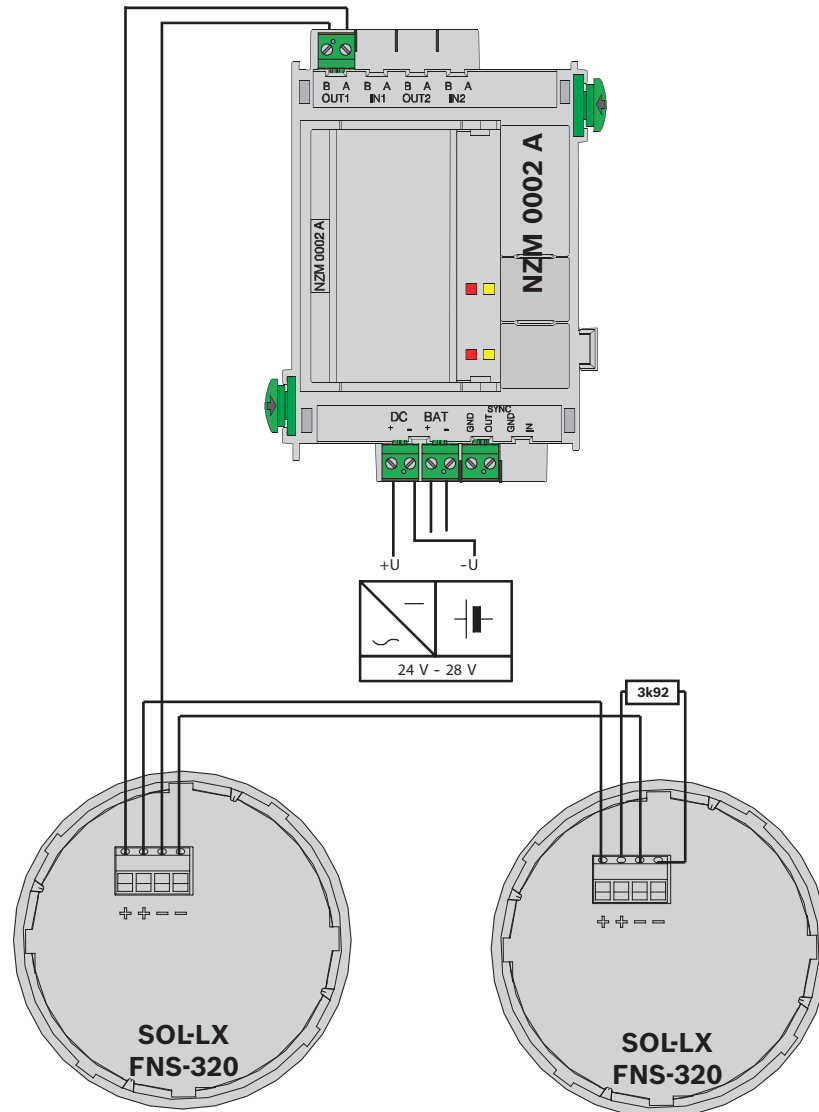
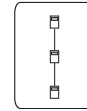


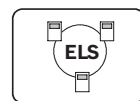


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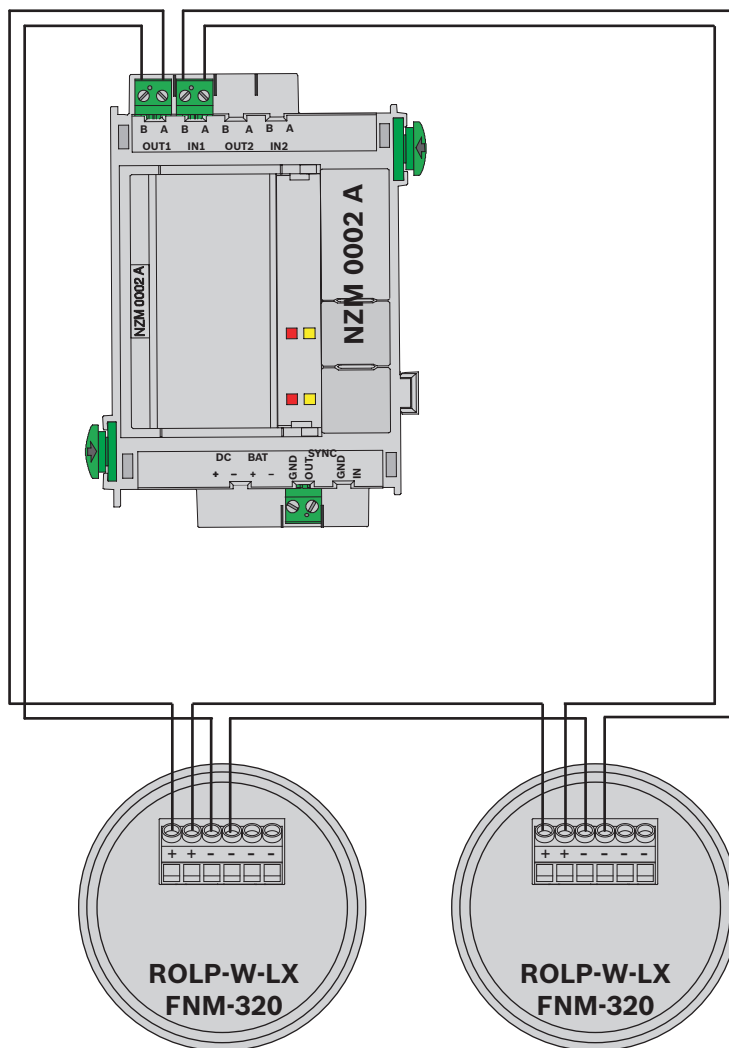


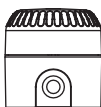




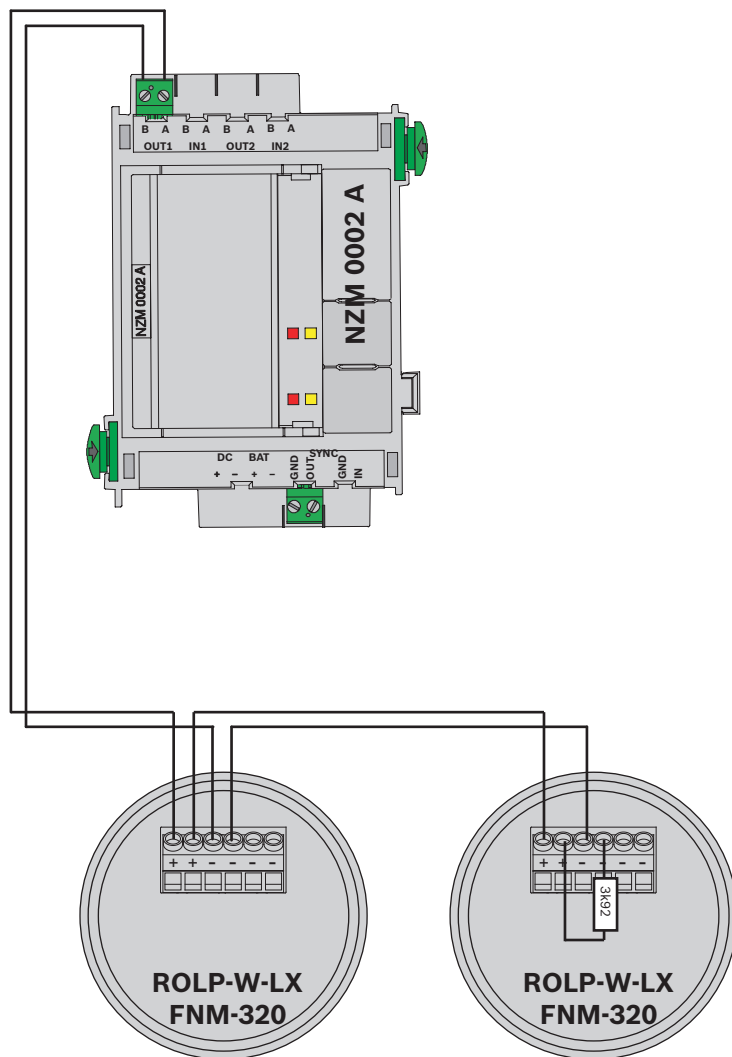
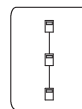


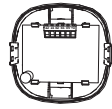
VdS 2489



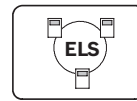


**ROLP-W-LX
FNM-320**

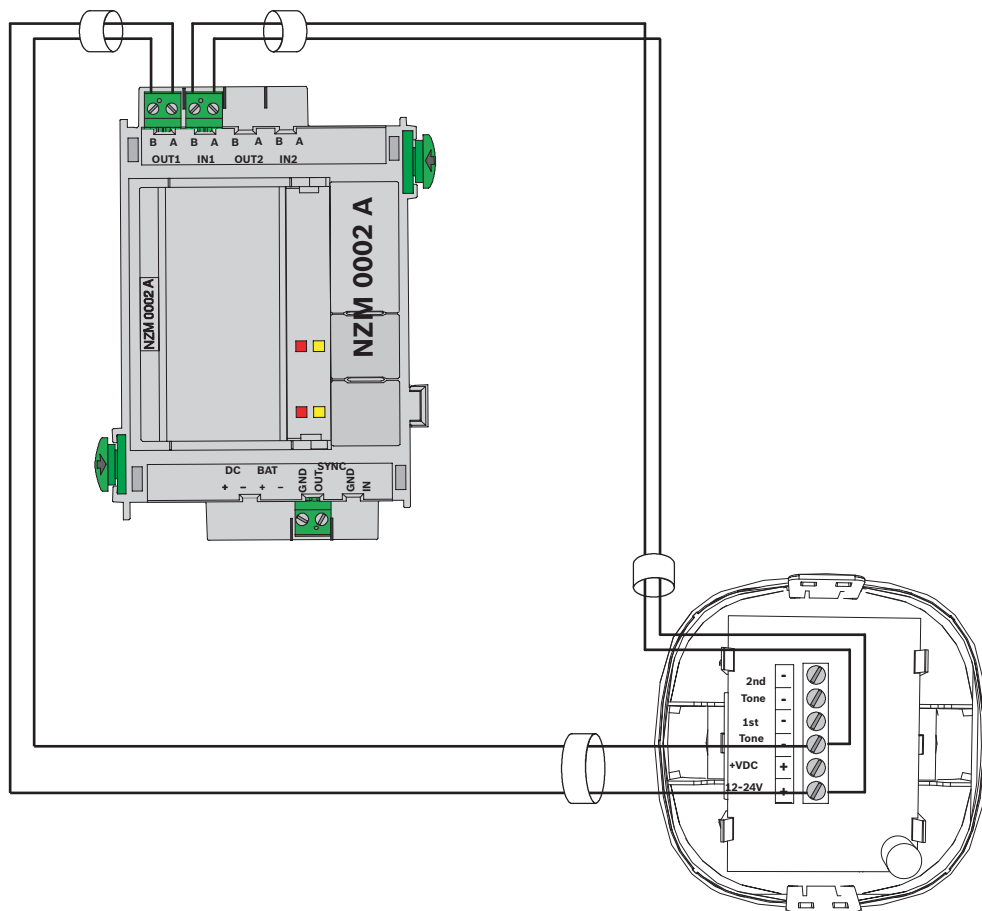


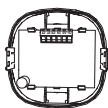


FNM-320V-A / -B

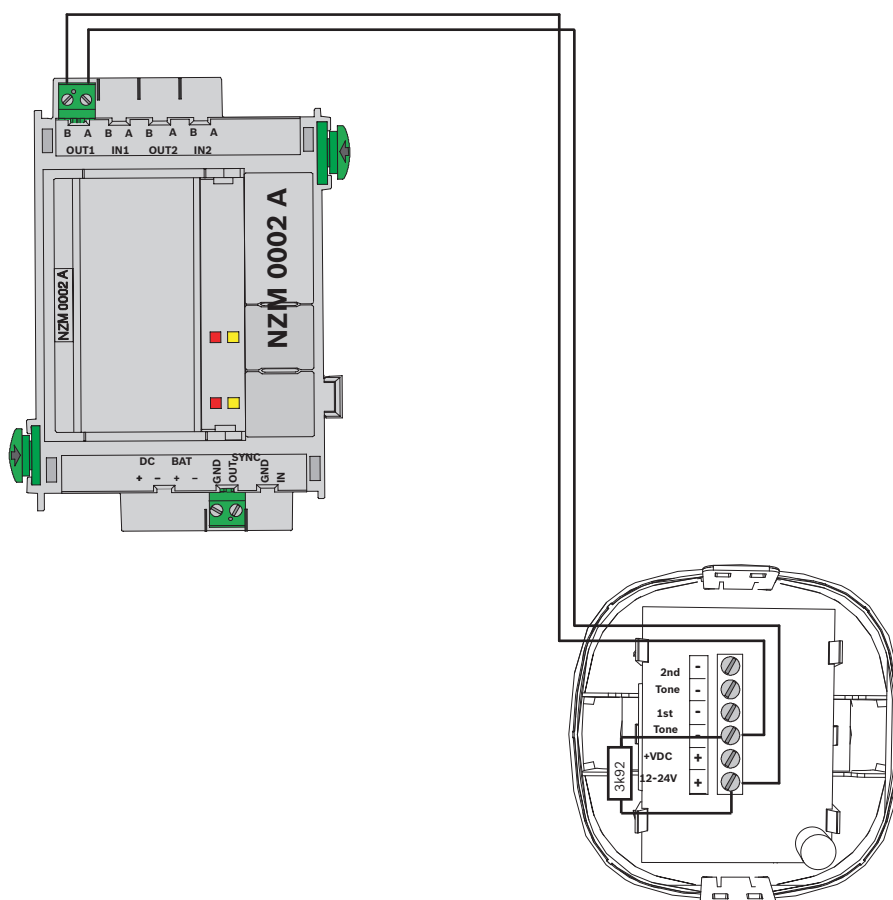
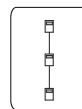


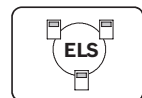
VdS 2489



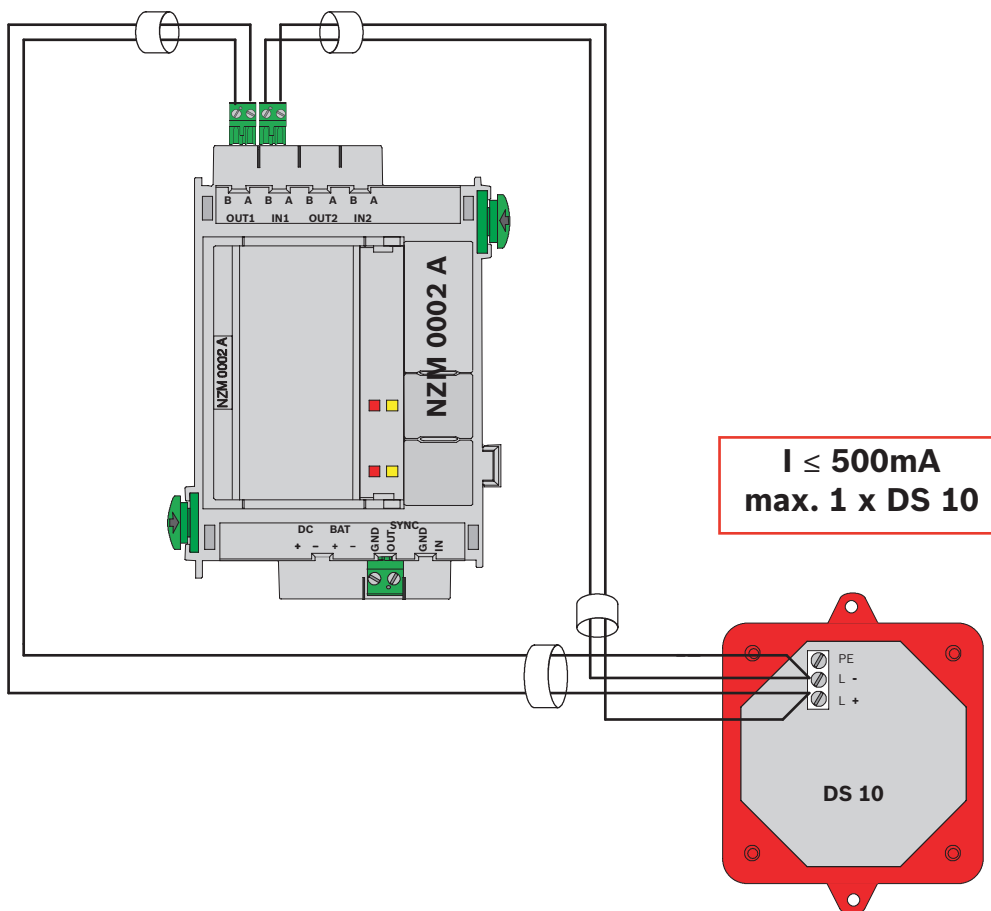


FNM-320V-A / -B



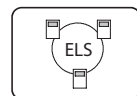


VdS 2489

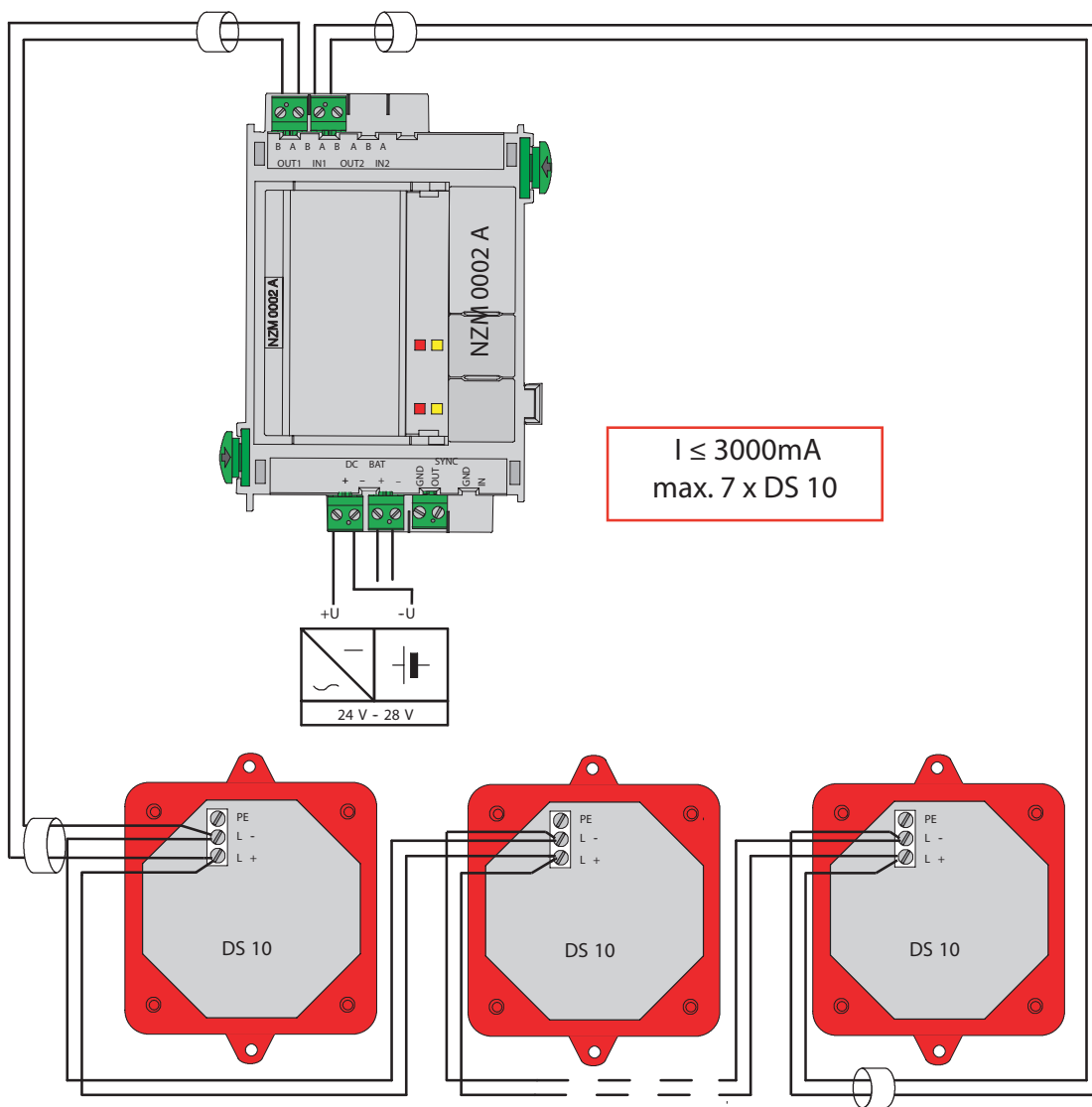


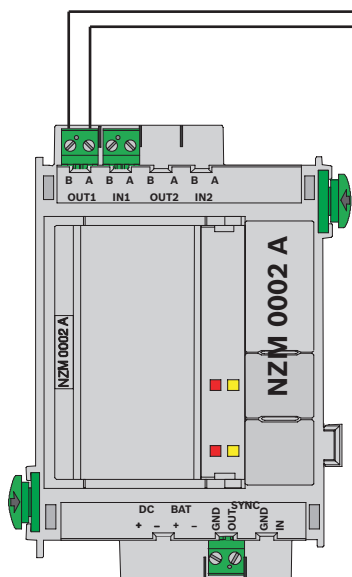
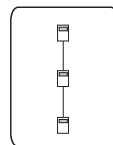


DS 10

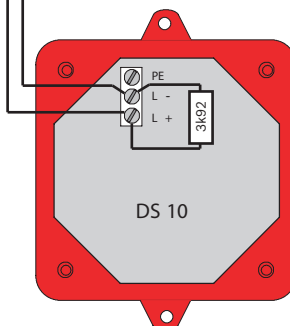


VdS 2489



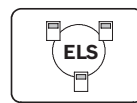


$I \leq 500\text{mA}$
max. 1 x DS 10

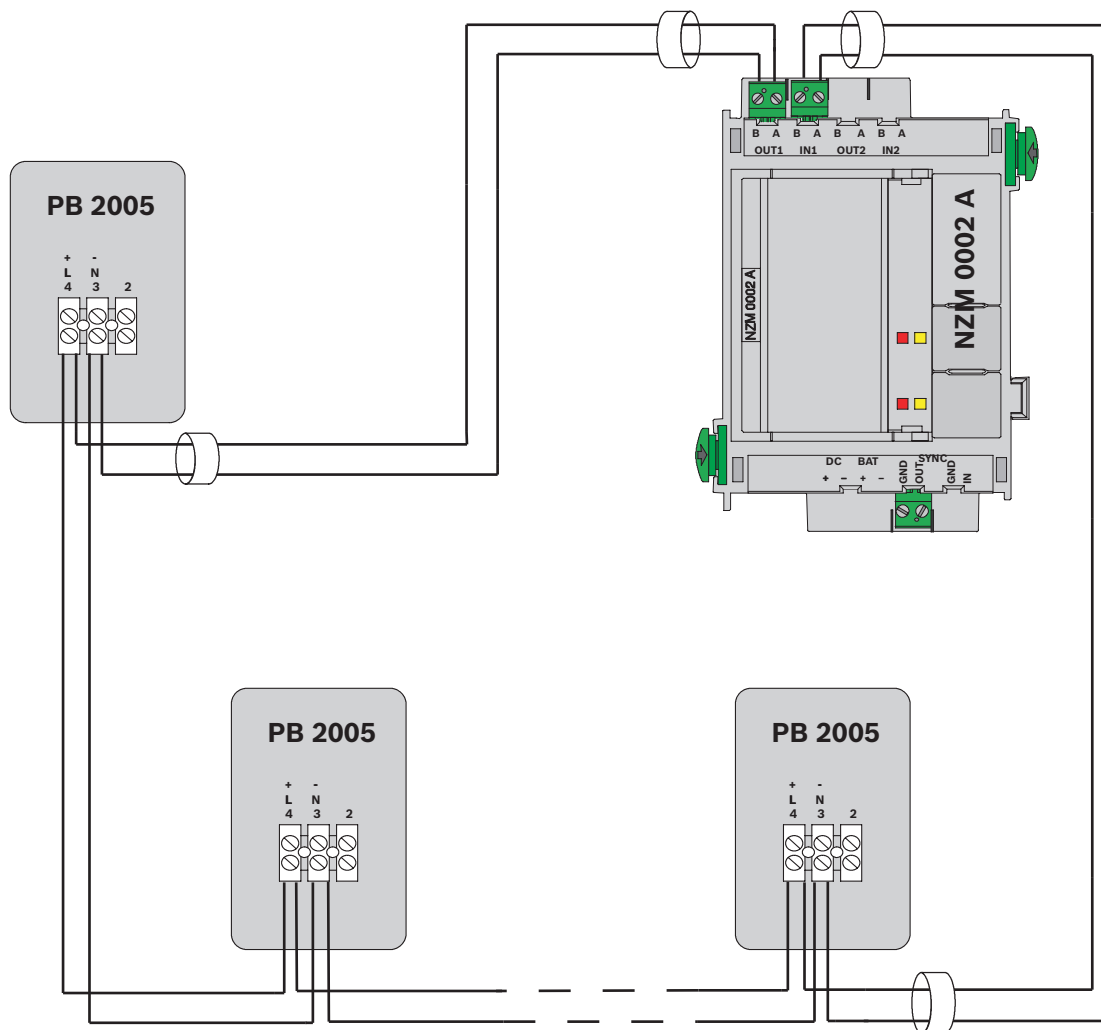


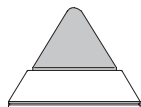


PB 2005

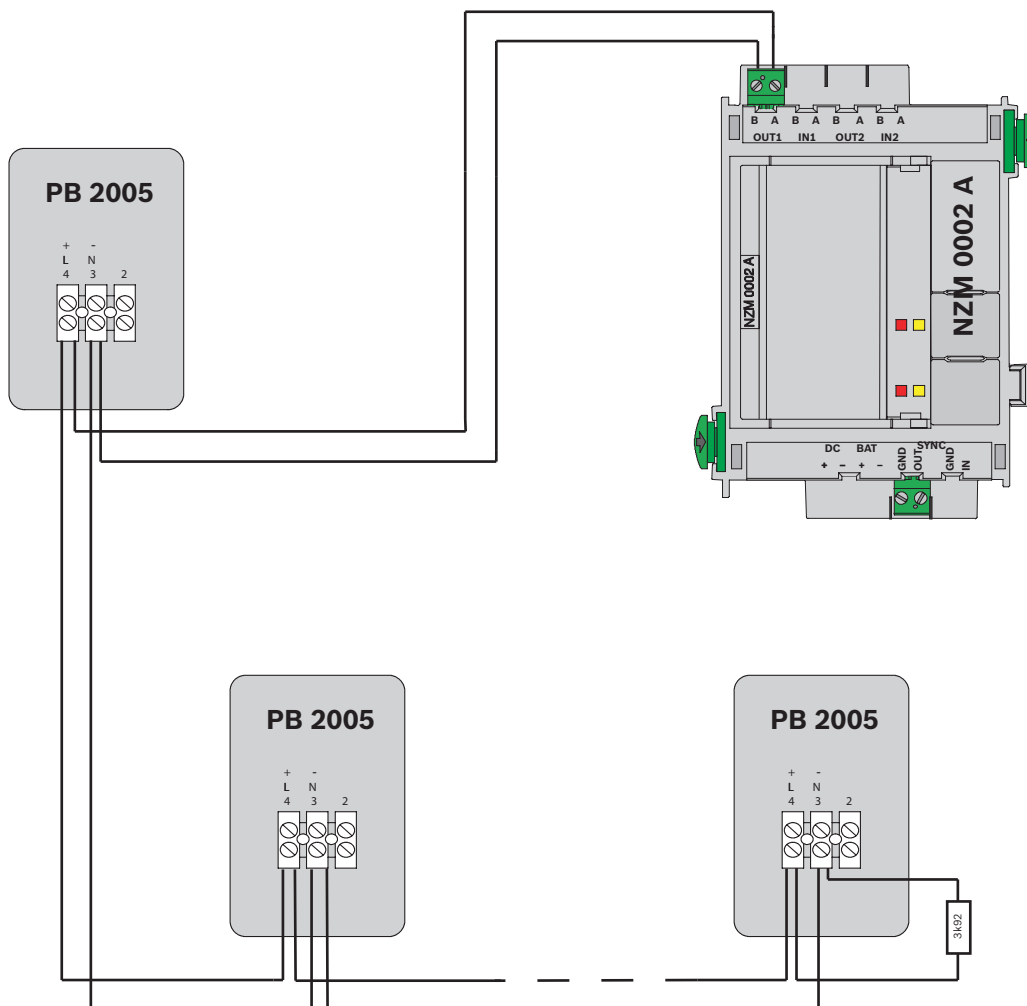
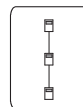


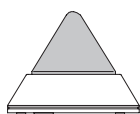
VdS 2489



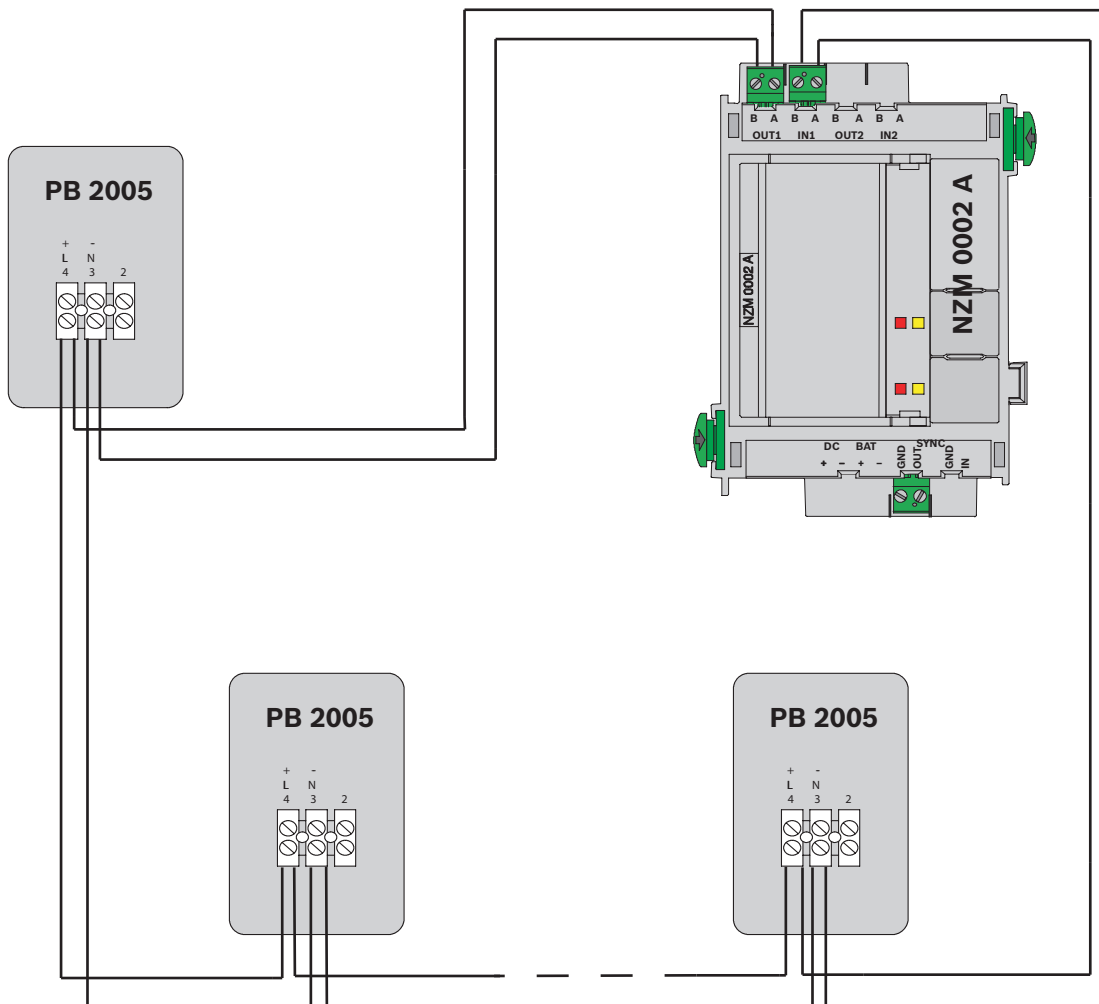
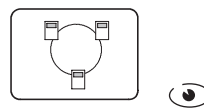


PB 2005



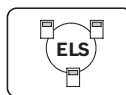


PB 2005

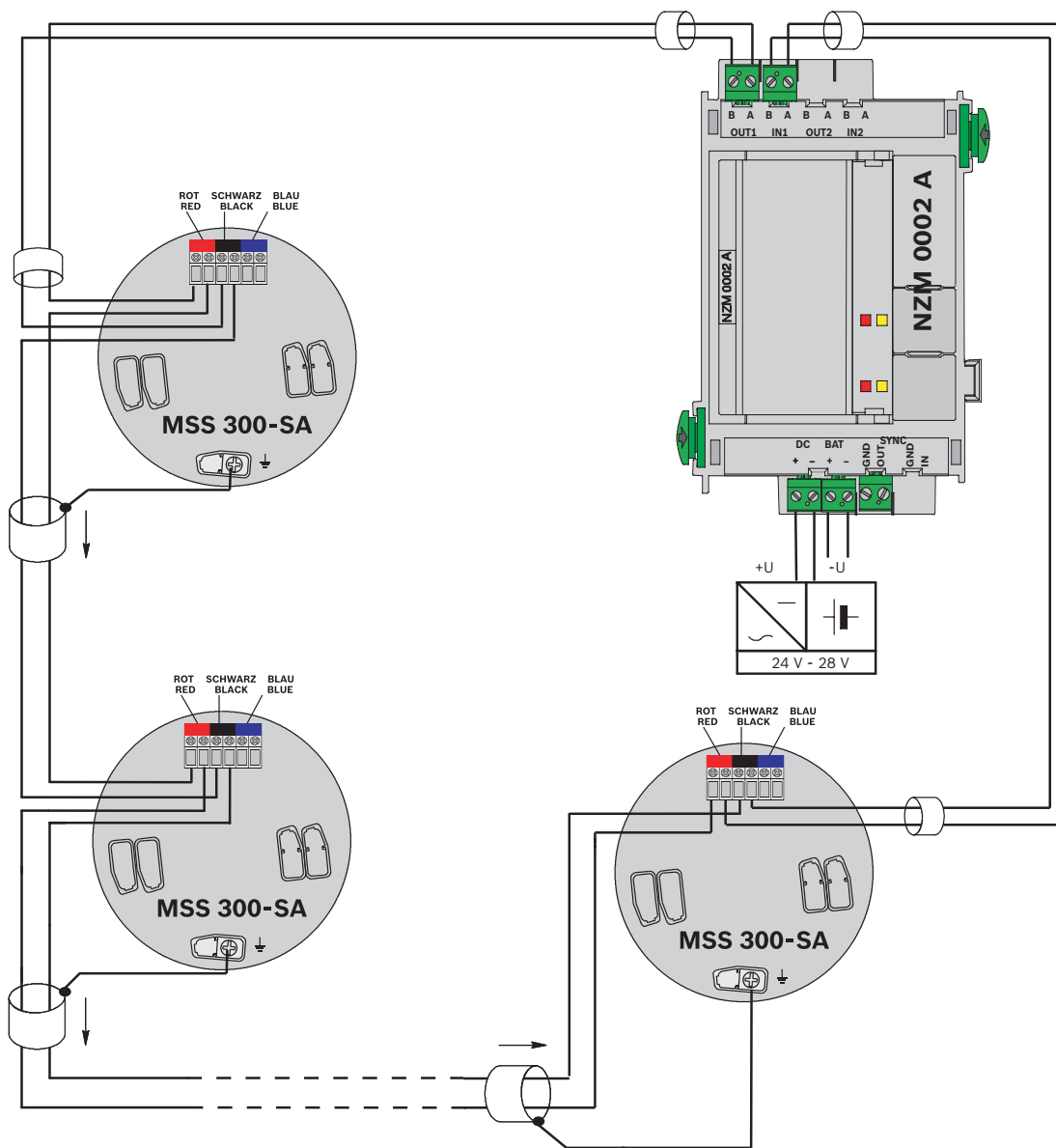


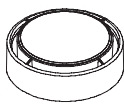


MSS 300-SA

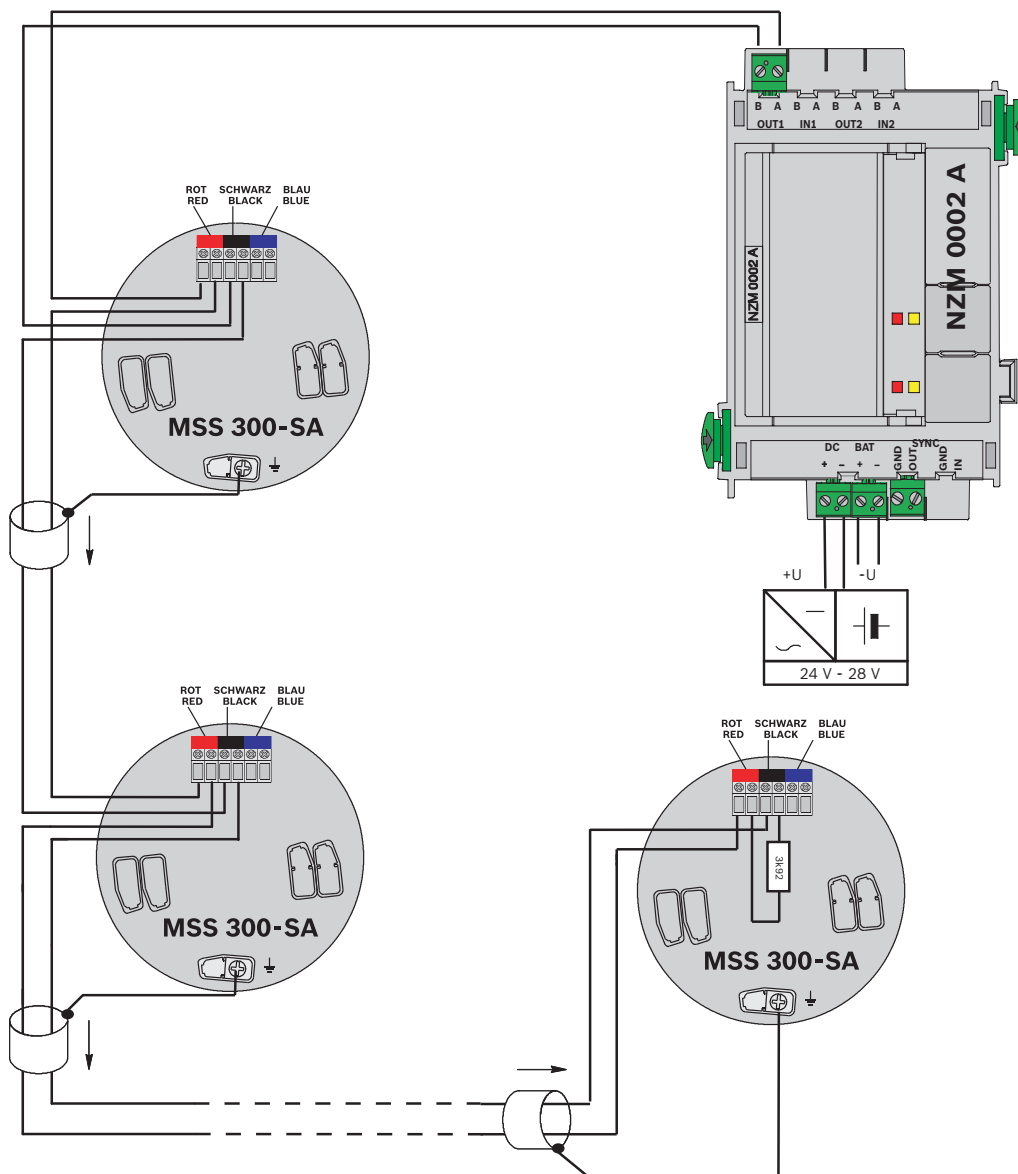
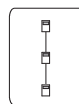


VdS 2489





MSS 300-SA



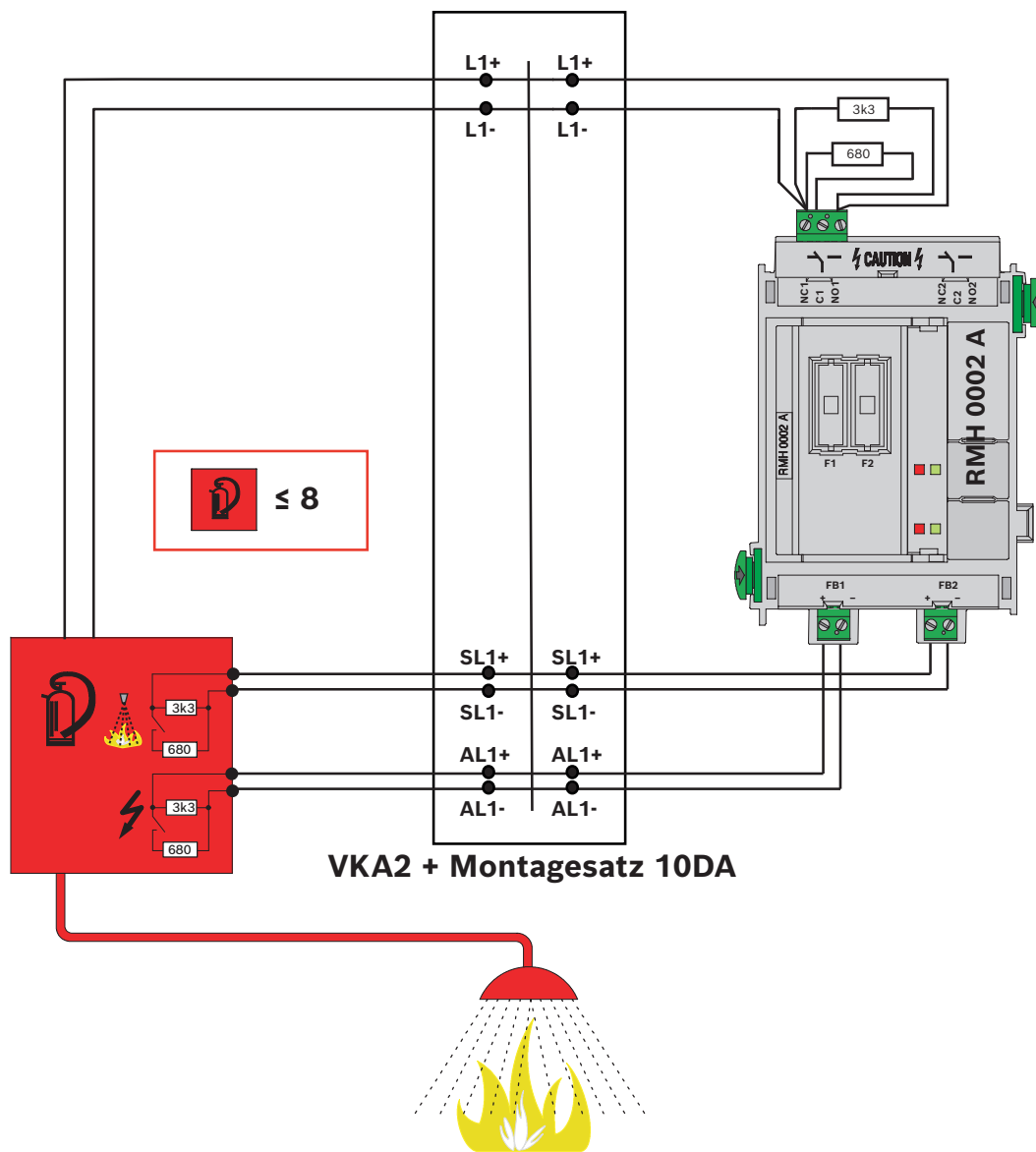
3.3.6

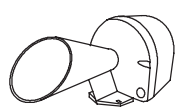
RMH 0002 A



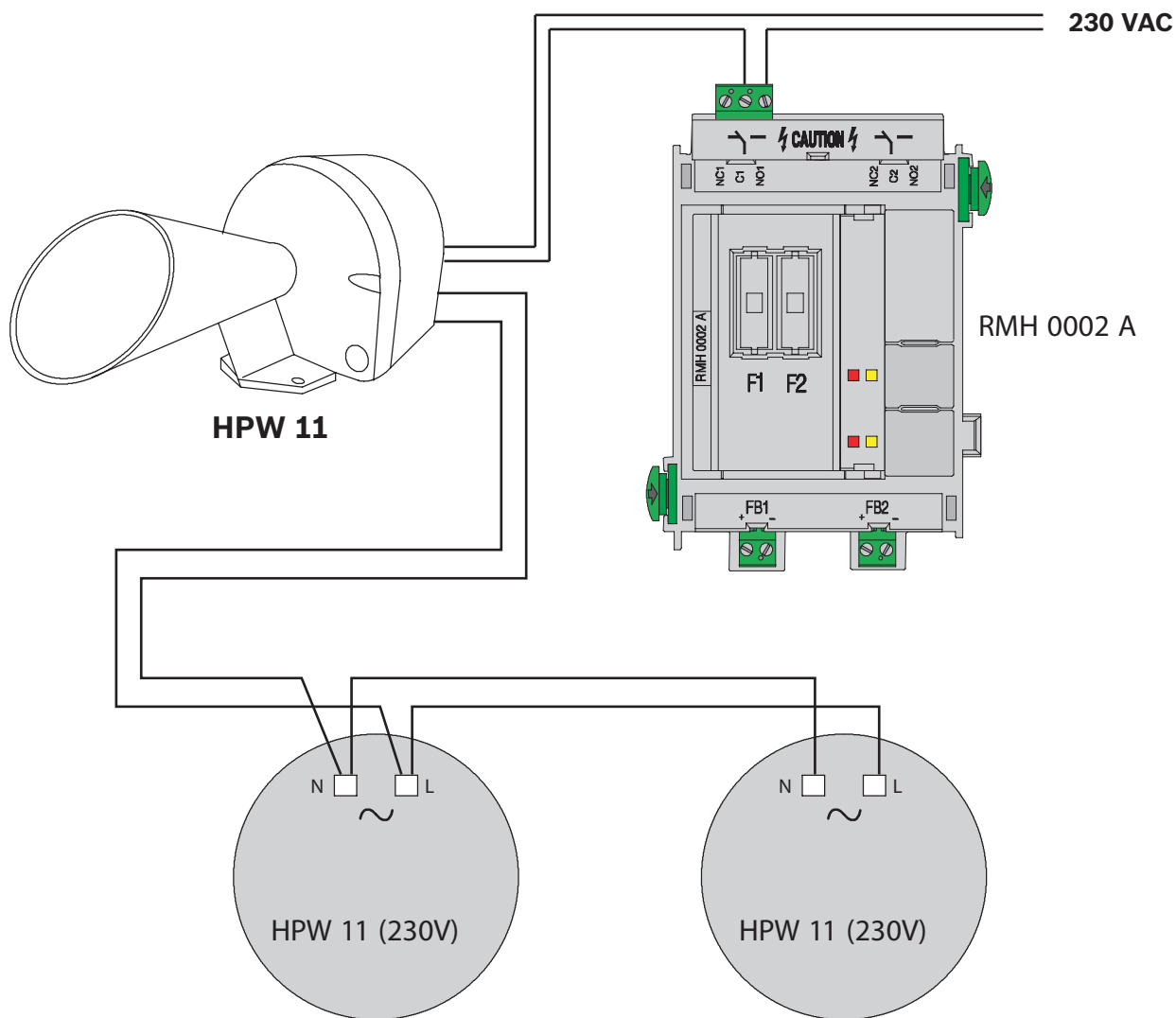
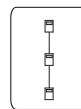
Löschanlage

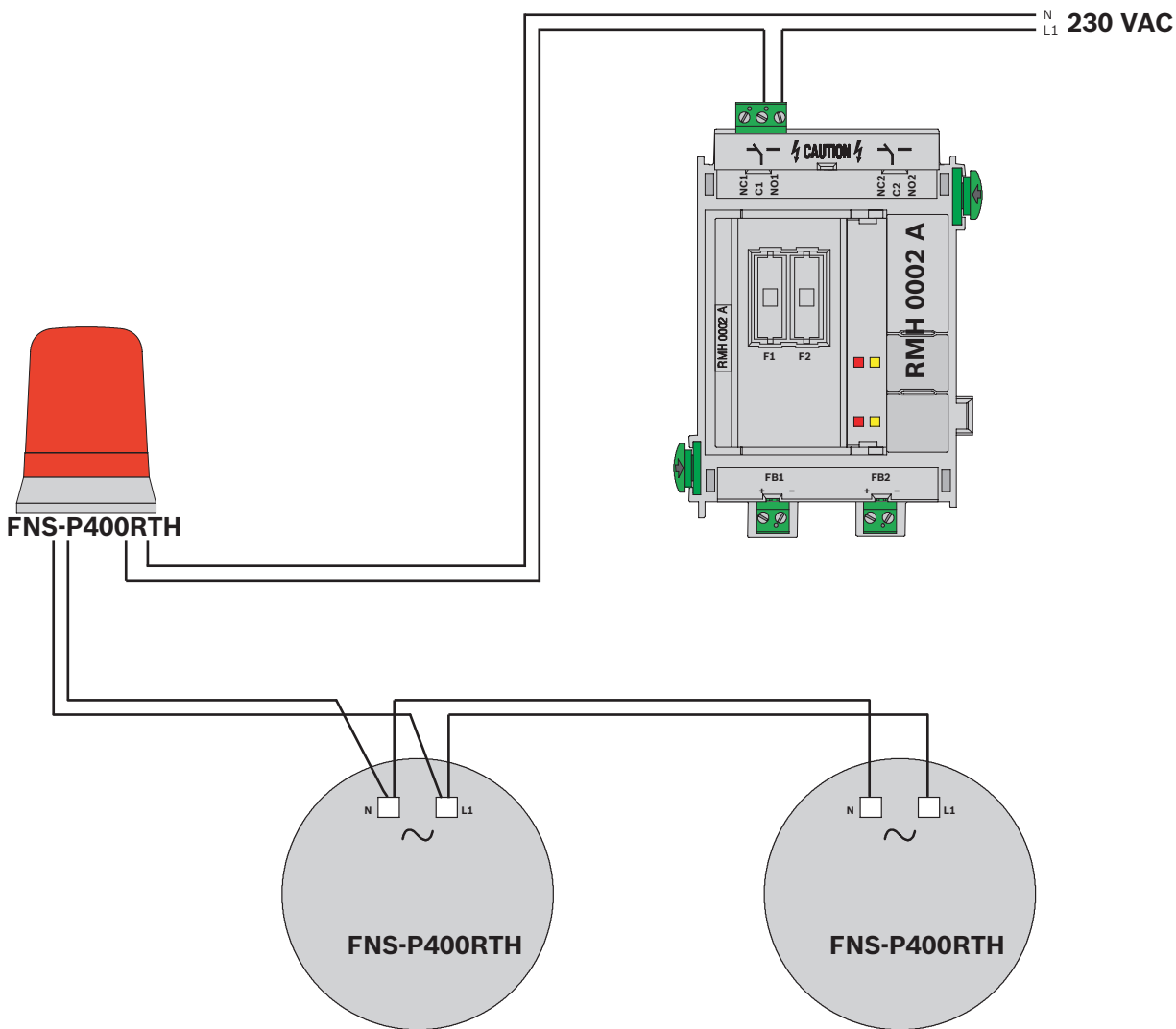
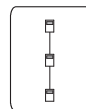
VdS 2496:2005-09





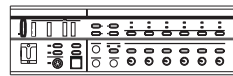
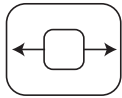
HPW 11



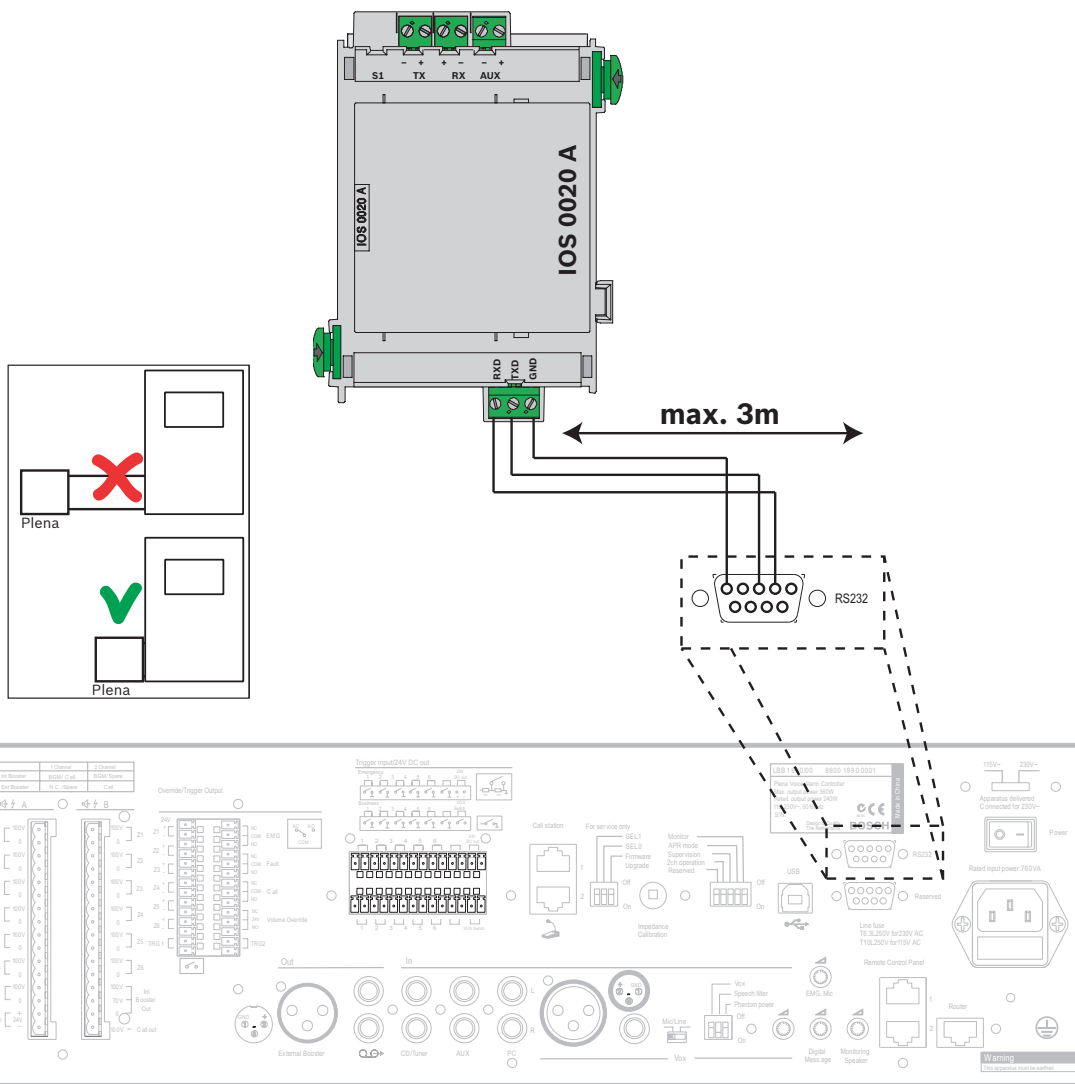


3.3.7

IOS 0020 A



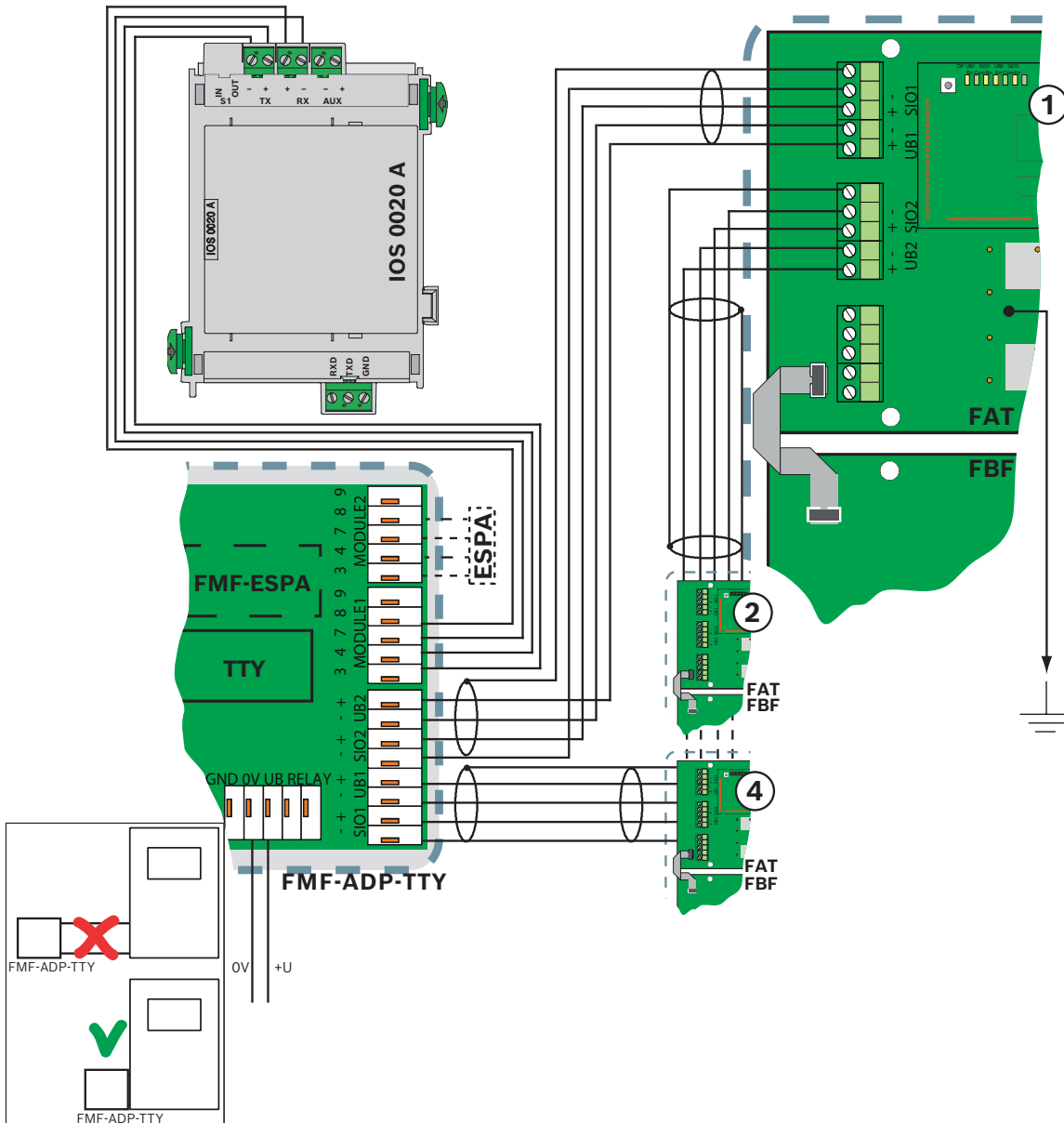
Plena





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

ELS VdS 2489

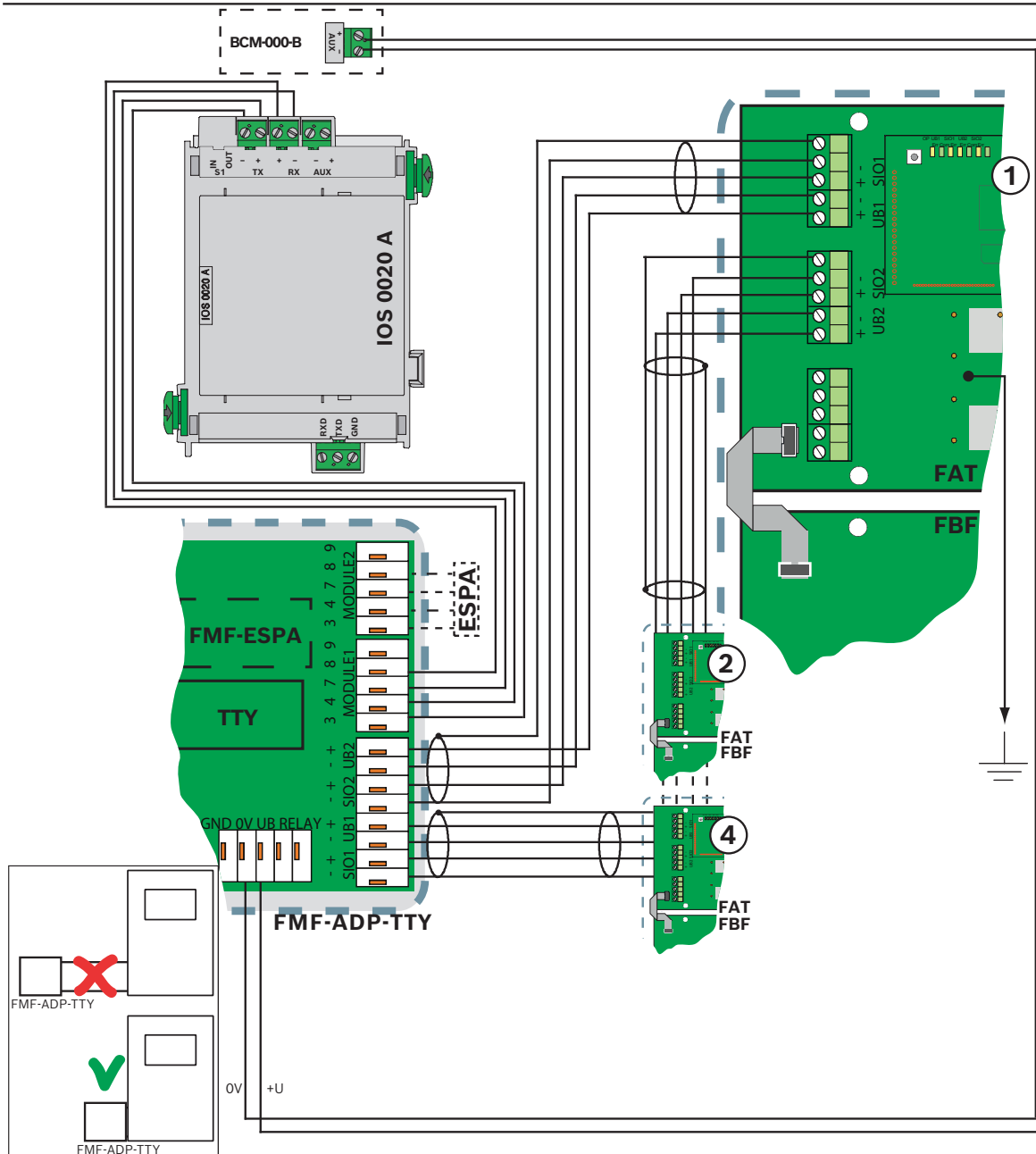




FAT4000 FBF4000 ADP4000

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

ELS VdS 2489

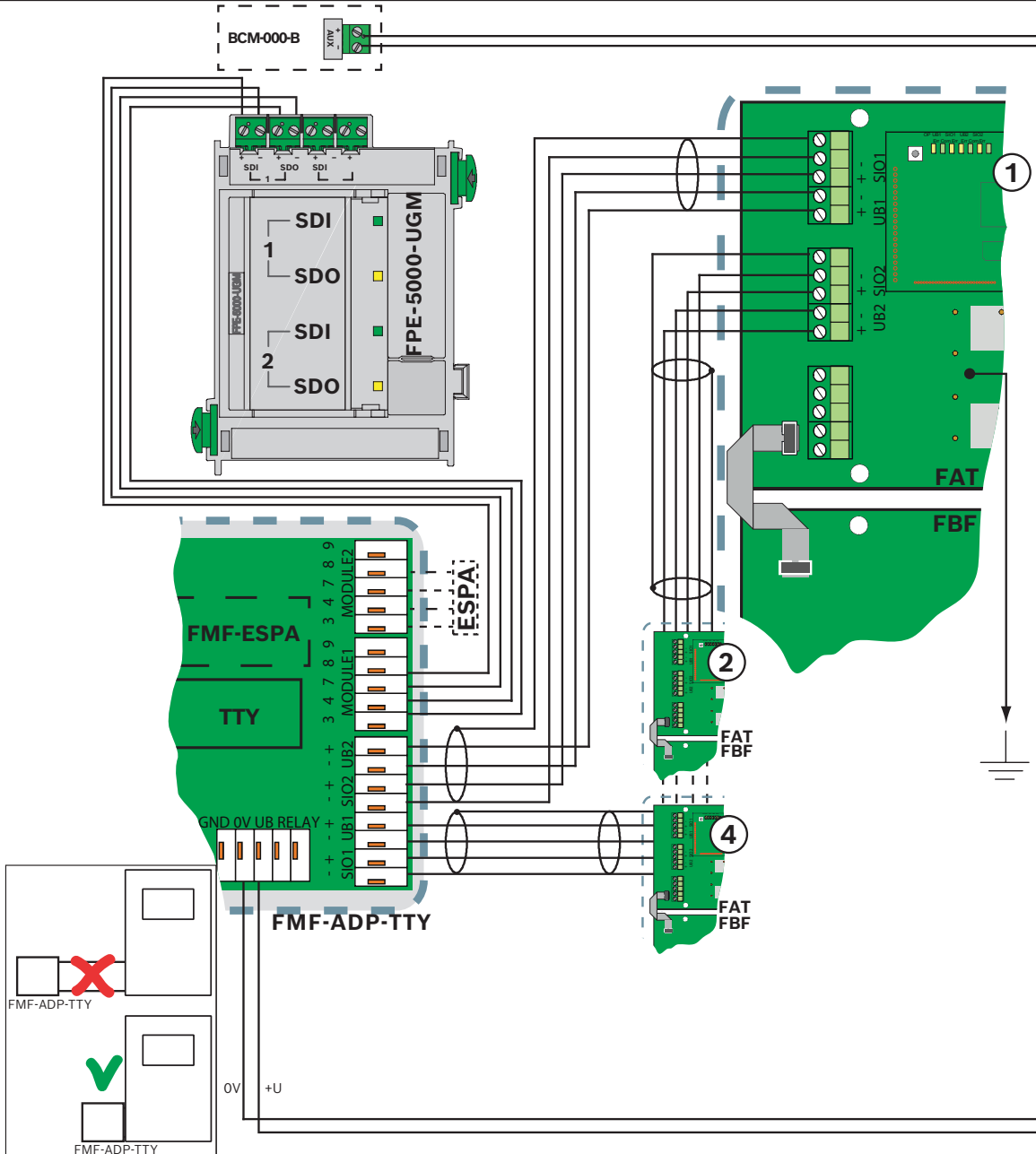


3.3.8 FPE-5000-UGM



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

ELS VdS 2489



3.4 Modules d'interface



FLM-420-4/CON-D/S, Page 114

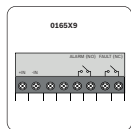
FLM-420-NAC-D/S, Page 139

FLM-420-RLE-S, Page 152

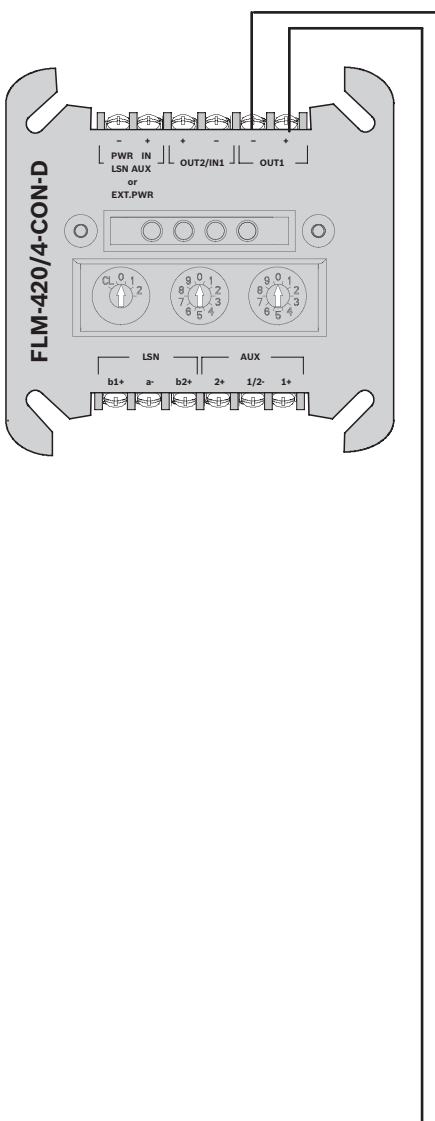
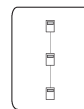
FLM-420-RLV1-E, Page 153

FLM-420-RLV8-S, Page 154

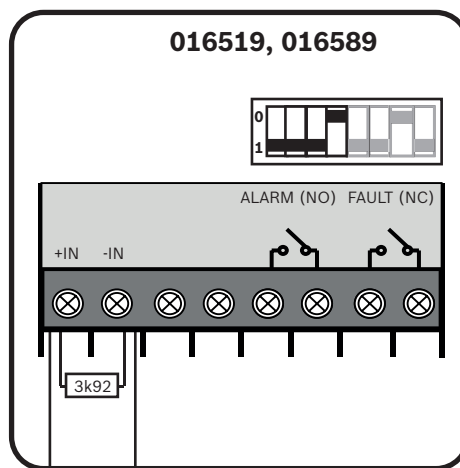
FMF-ADP-FBF/FMF-ADP-TTY, Page 155

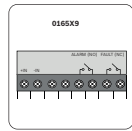


**016519, 016589
IR3 Flame Detector**

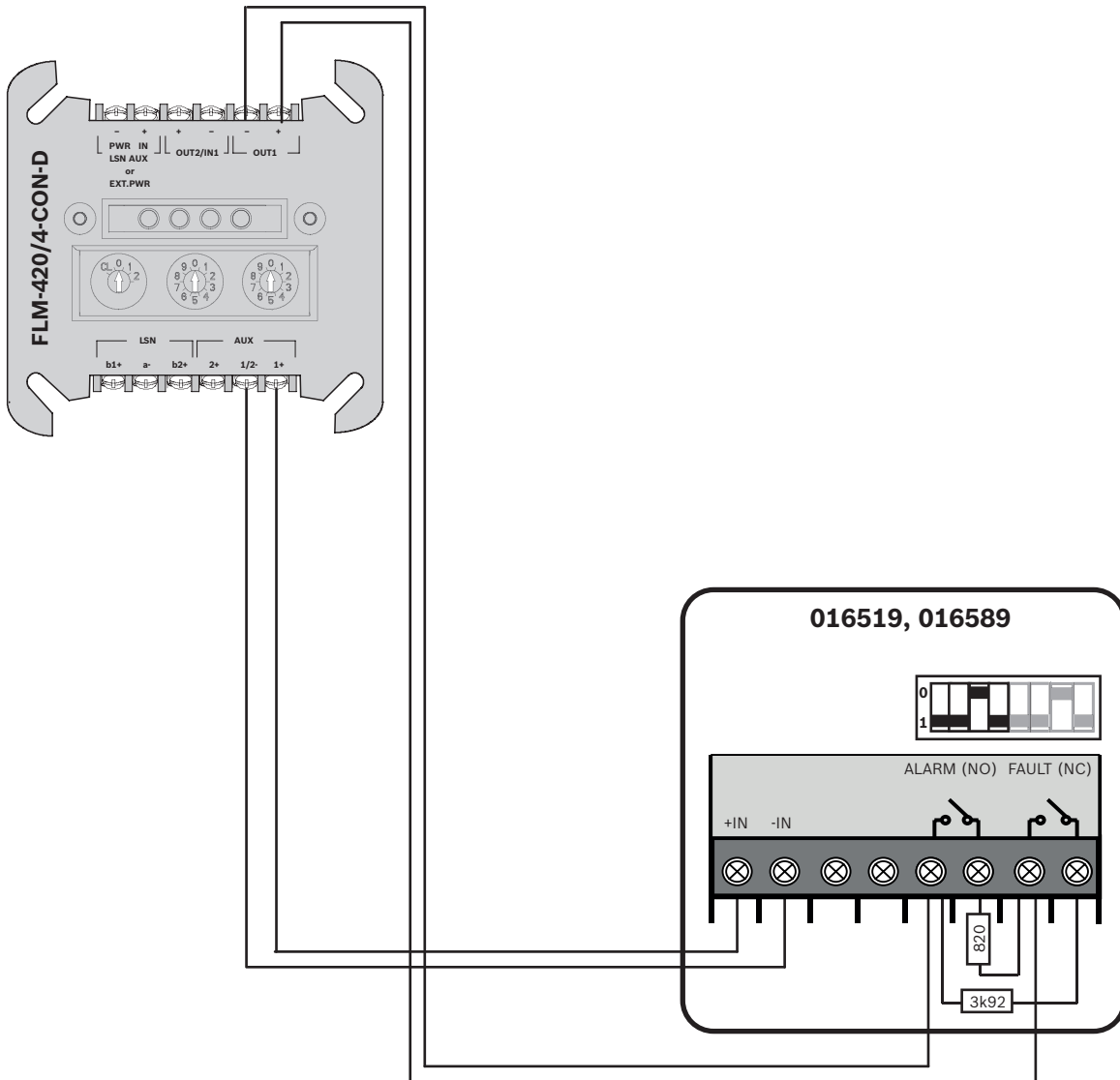
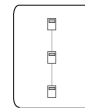


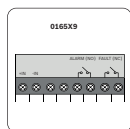
max. 1 x 0165X9



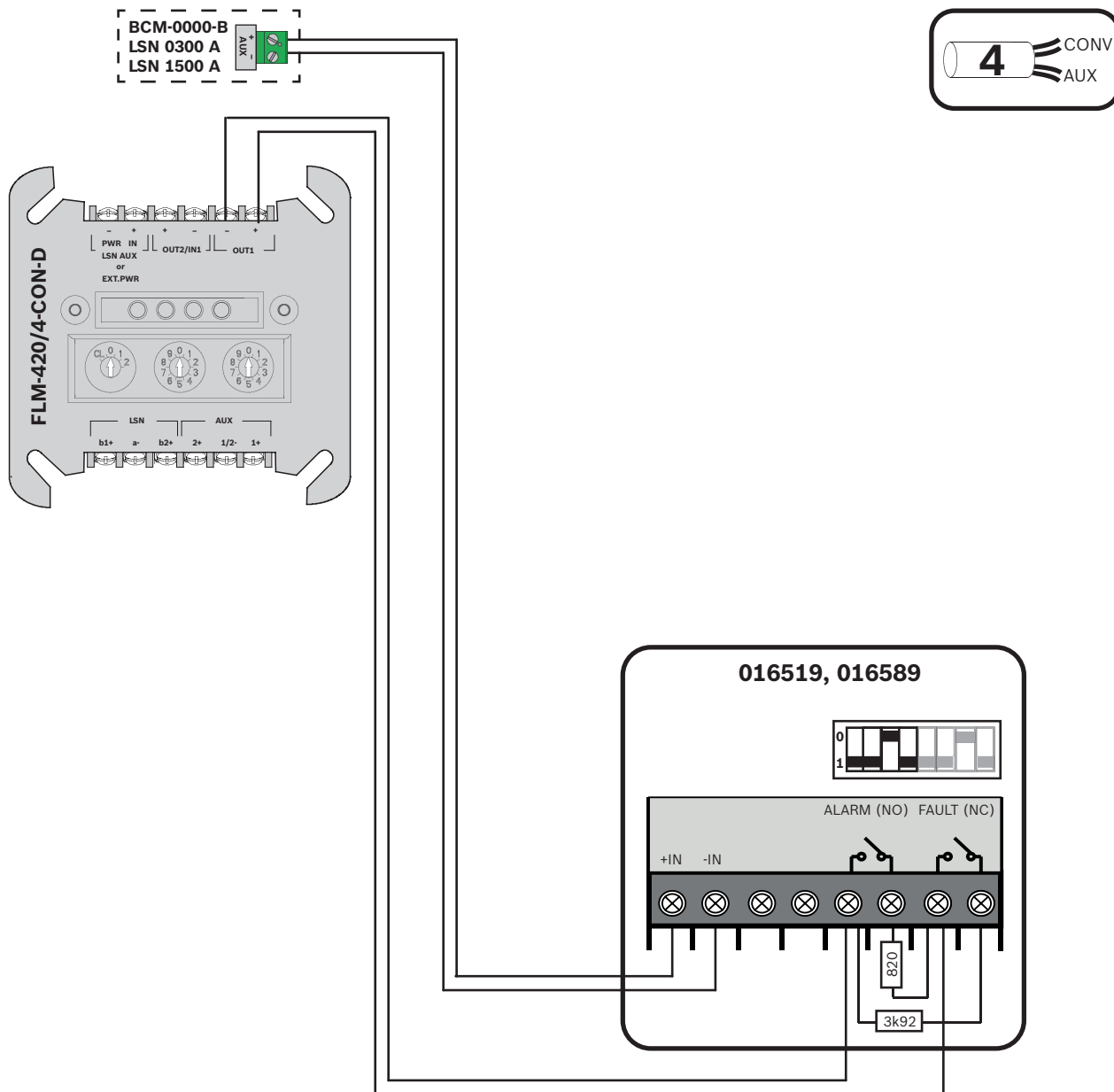
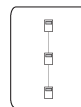


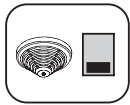
**016519, 016589
IR3 Flame Detector**



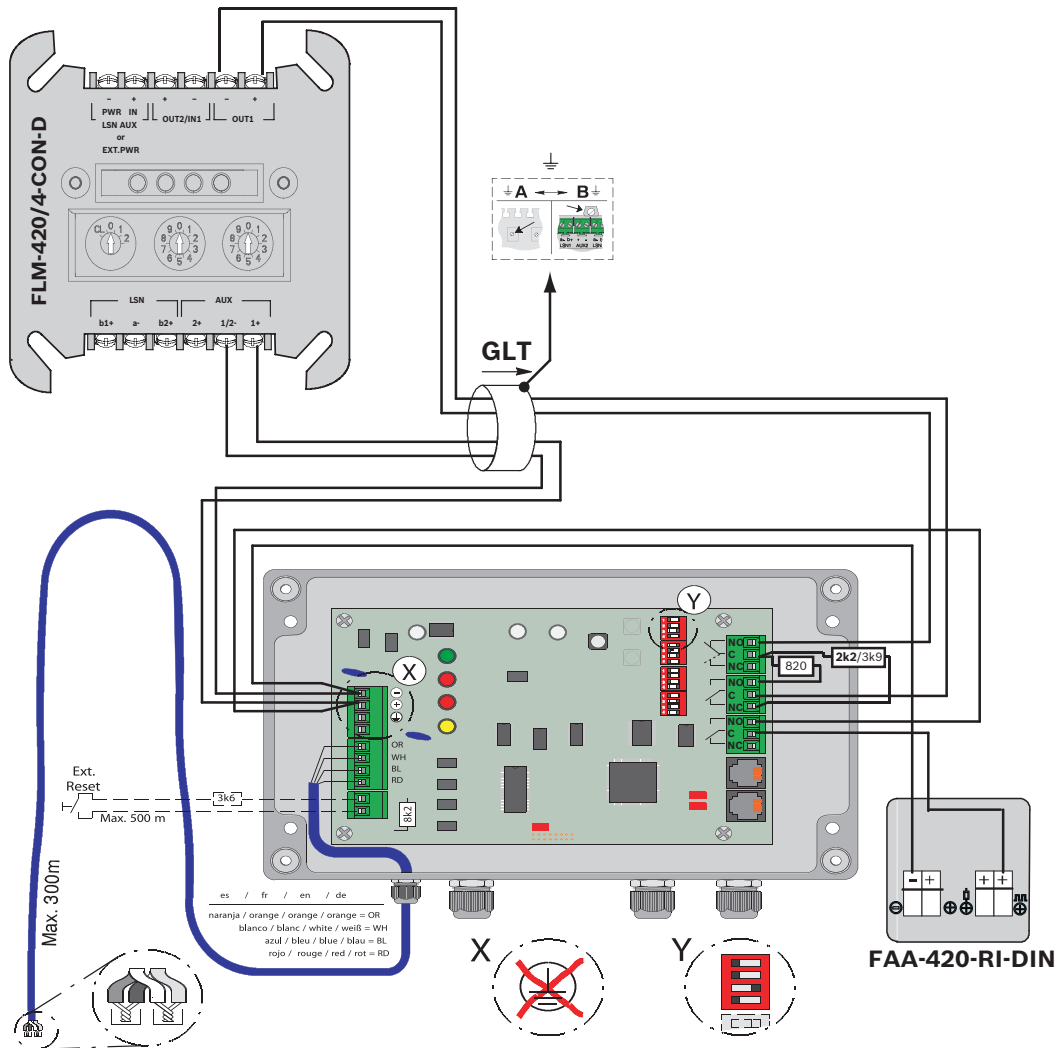
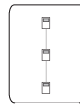


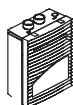
016519, 016589
IR3 Flame Detector





FCS-LWM-1

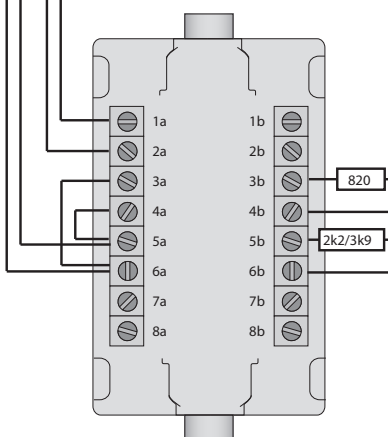
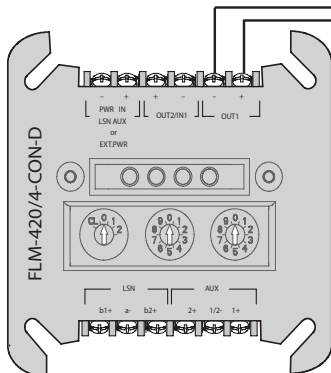
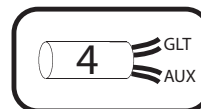


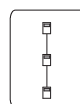
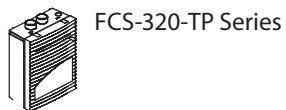


FCS-320-TM Series

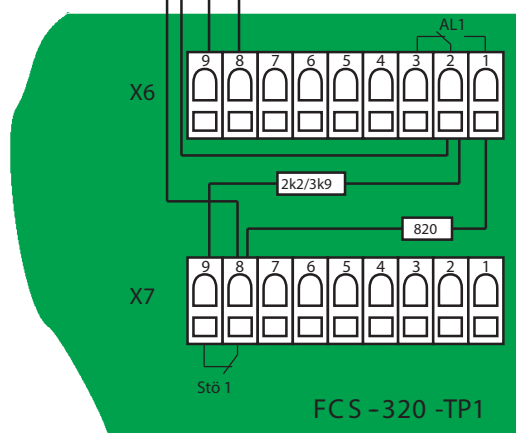
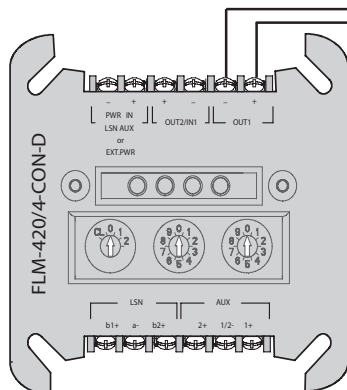
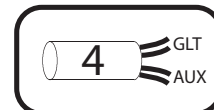


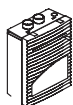
BCM-0000-B
LSN 0300 A
LSN 1500 A



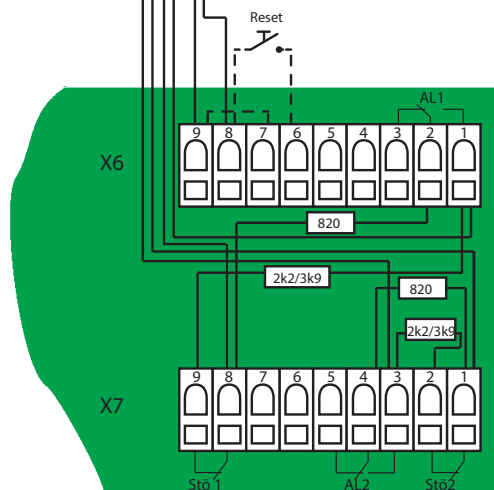
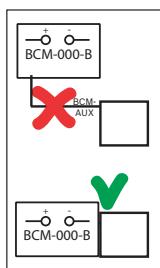
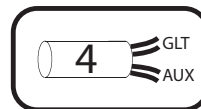
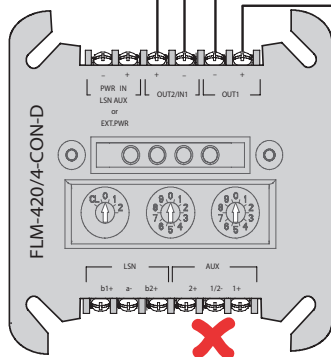
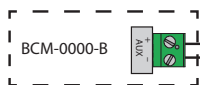


BCM-0000-B
LSN 0300 A
LSN 1500 A





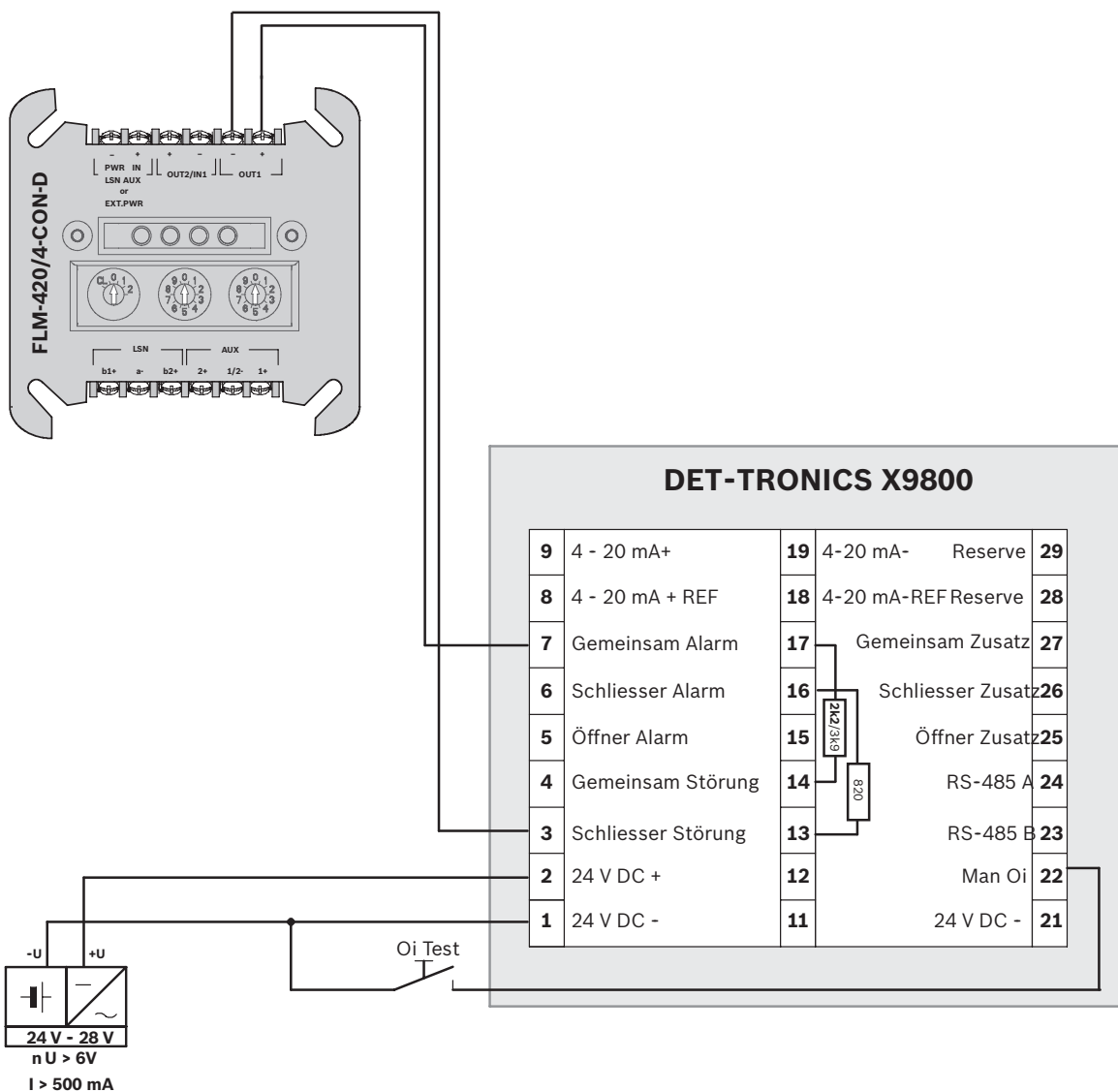
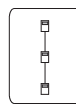
FCS-320-TP Series



FCS -320 -TP2

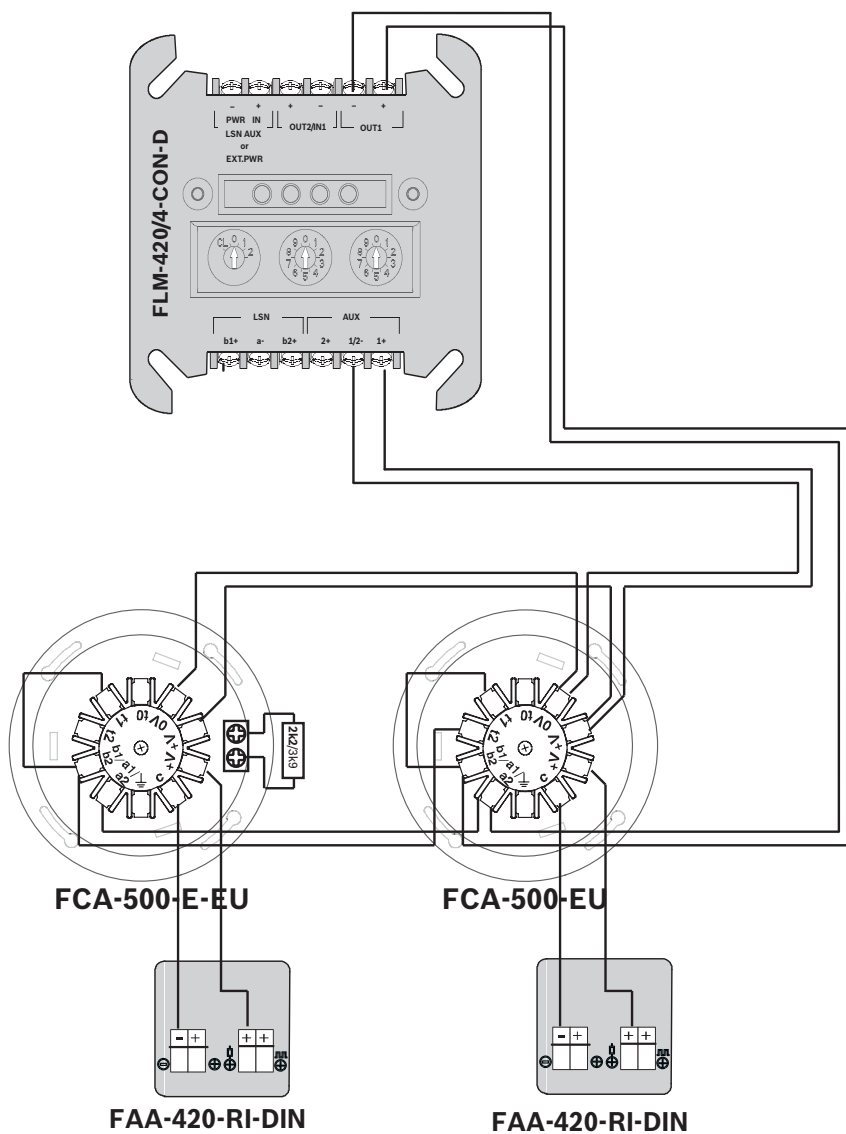


DET-TRONICS X9800



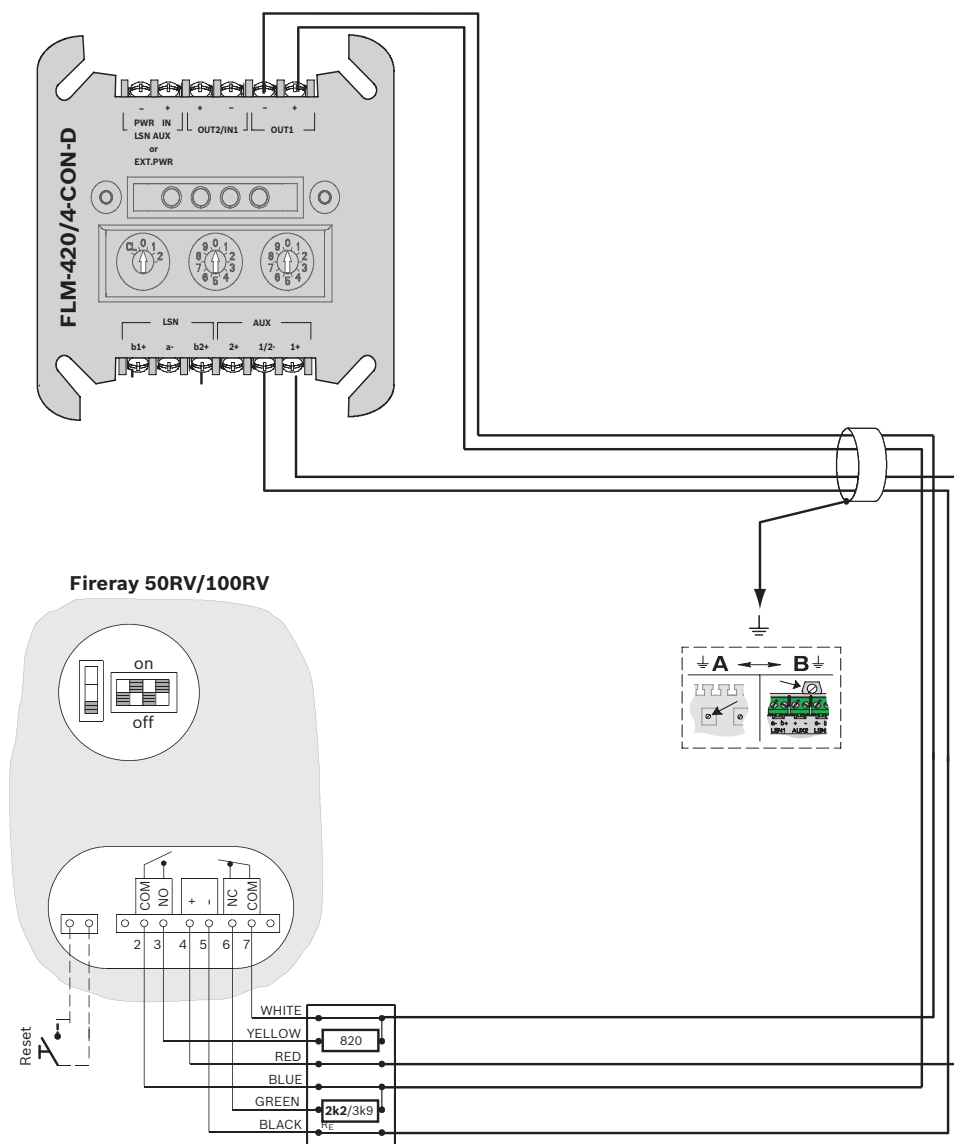


FCP-500





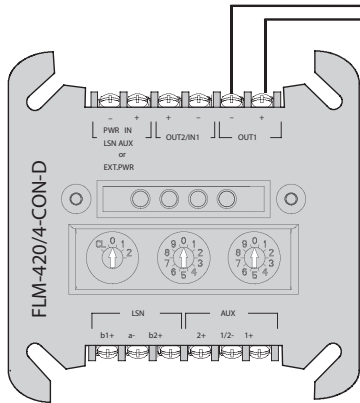
**Fireray 50RV
Fireray 100RV**



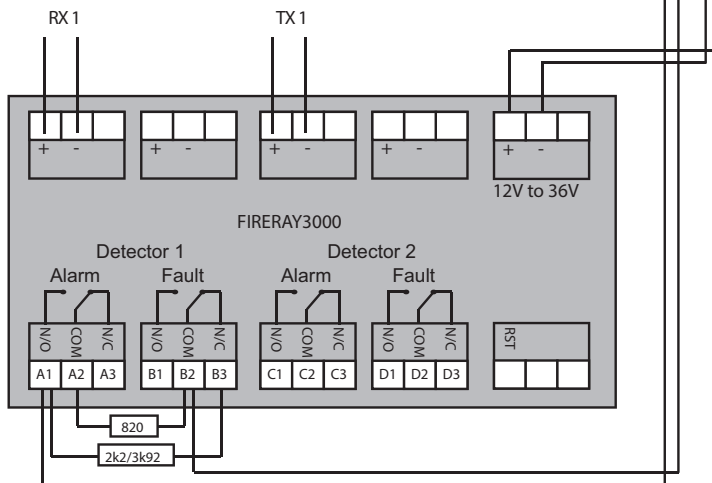
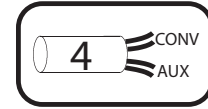


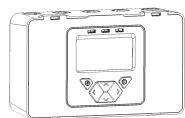
FIRERAY3000

1 x



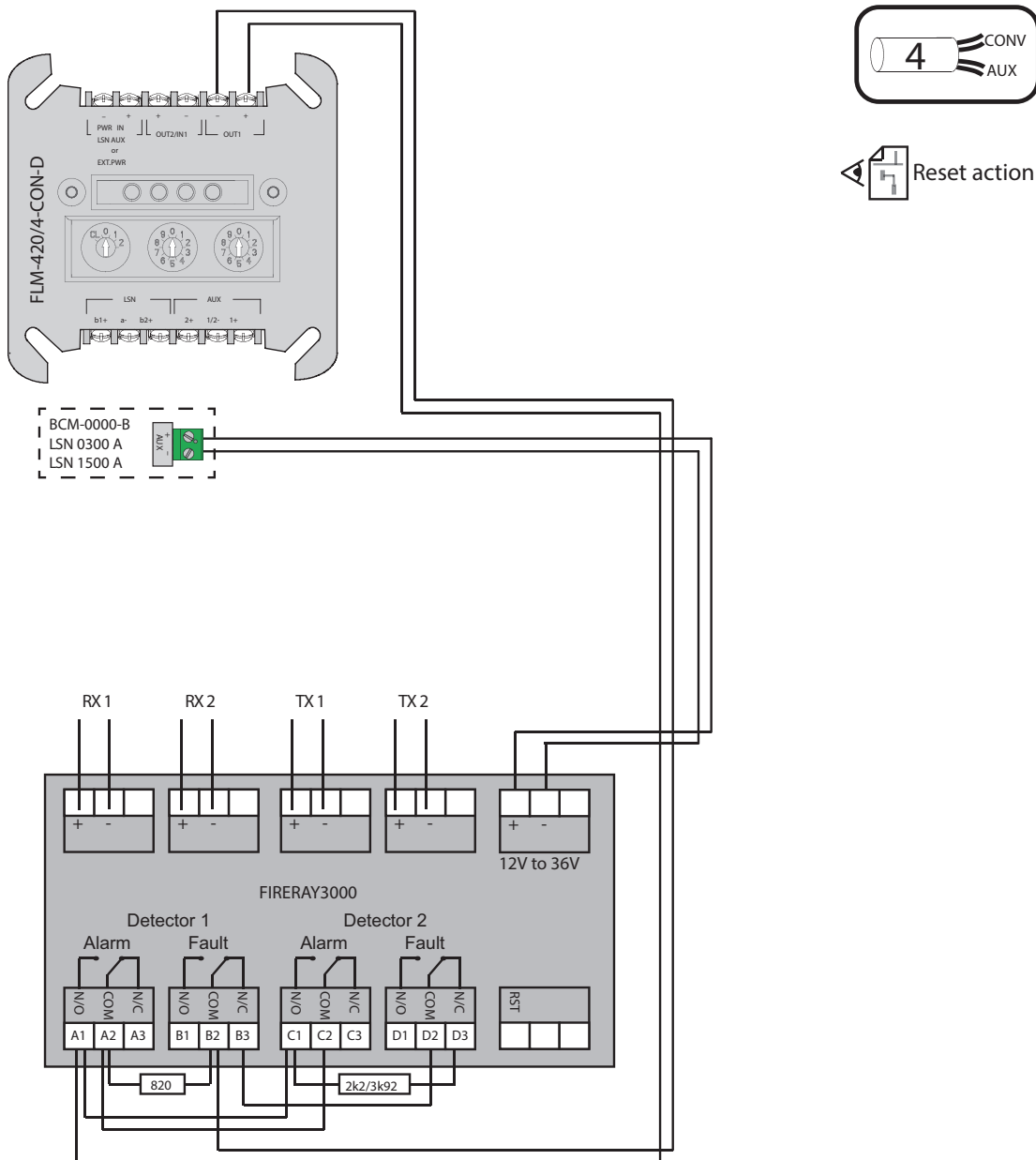
BCM-0000-B
LSN 0300 A
LSN 1500 A

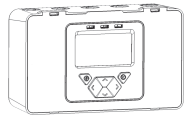




FIRERAY3000

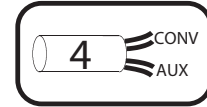
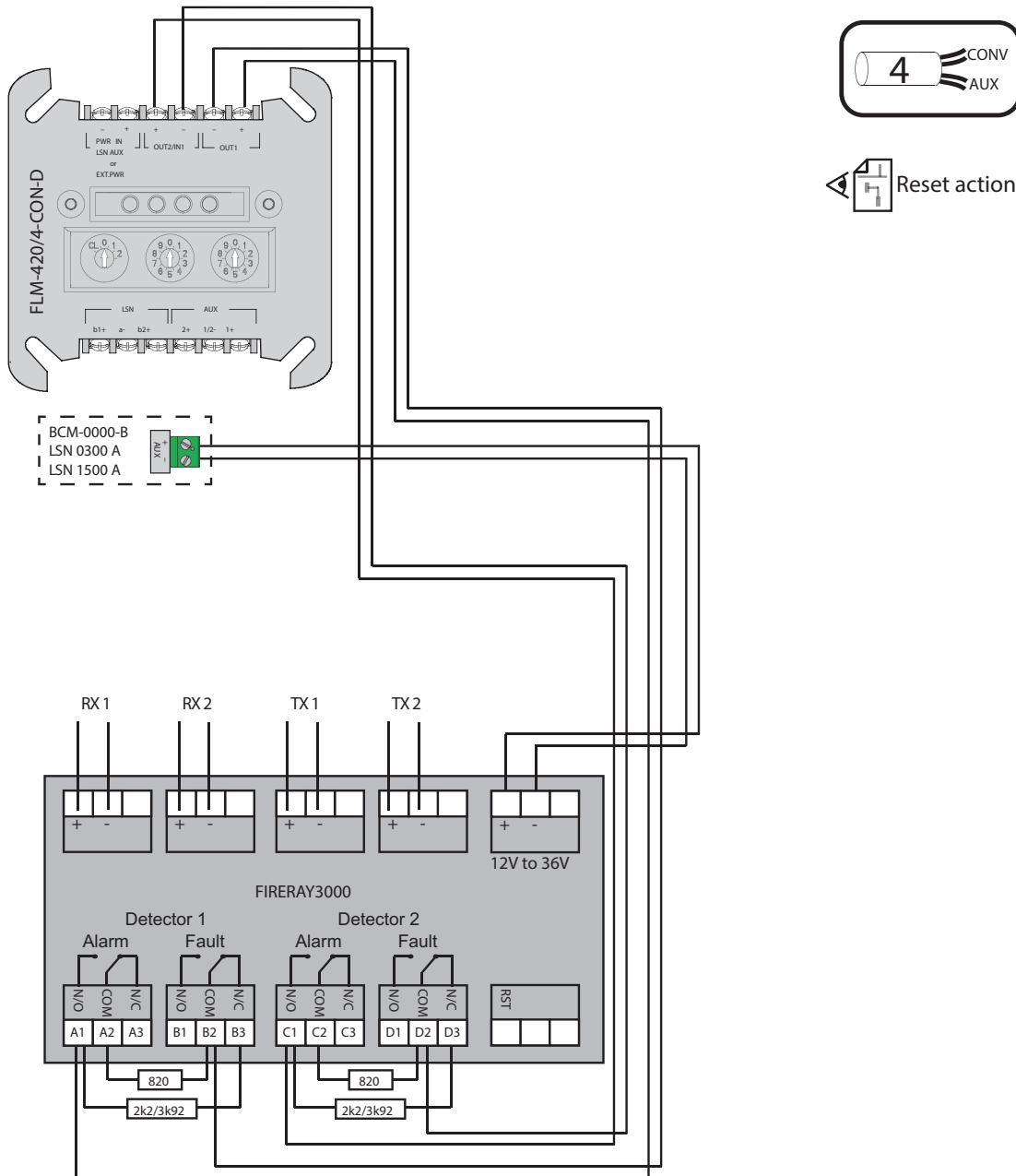
2 x  1





FIRMERAY3000

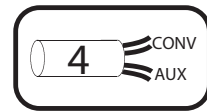
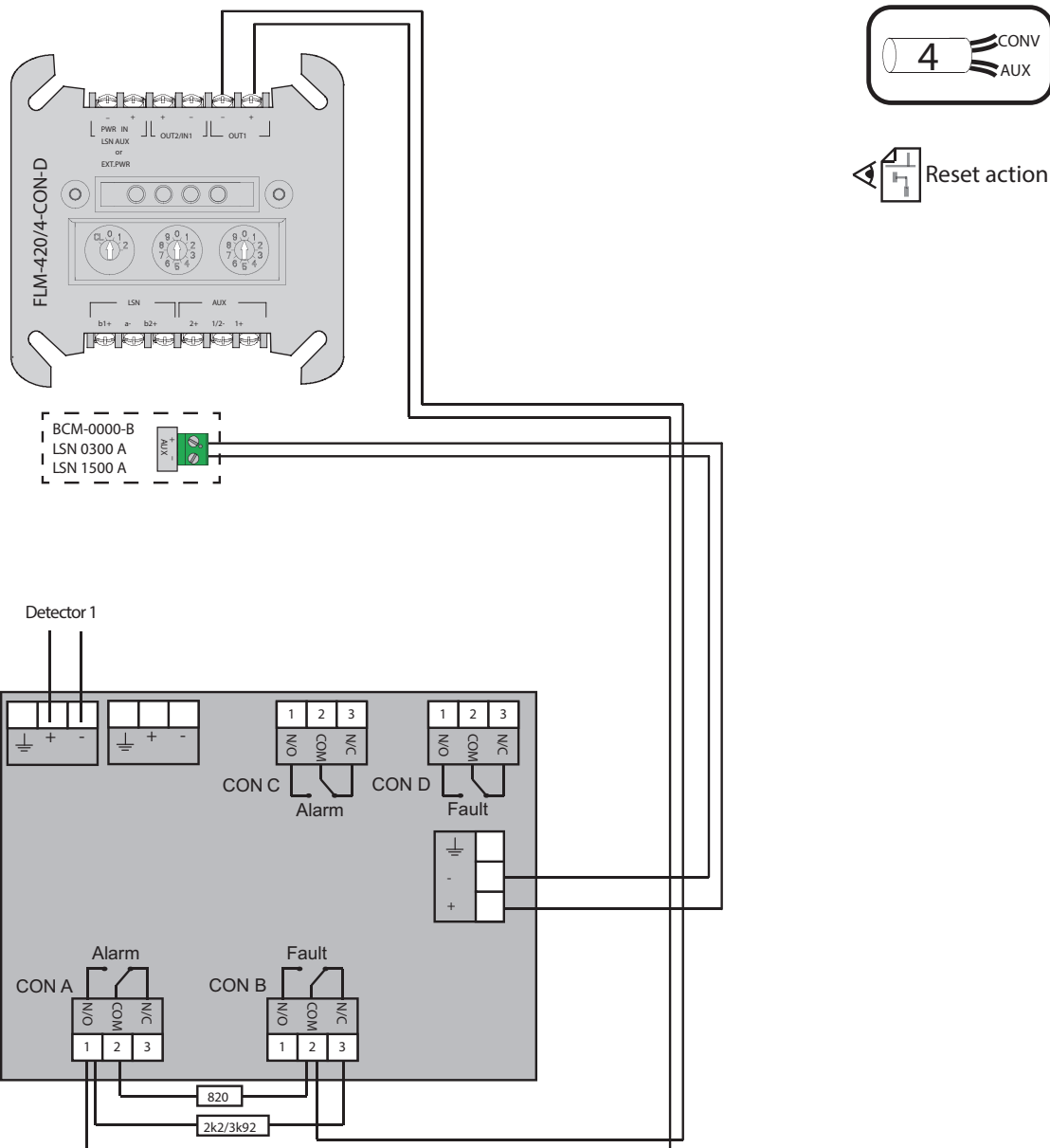
2 x  1+2





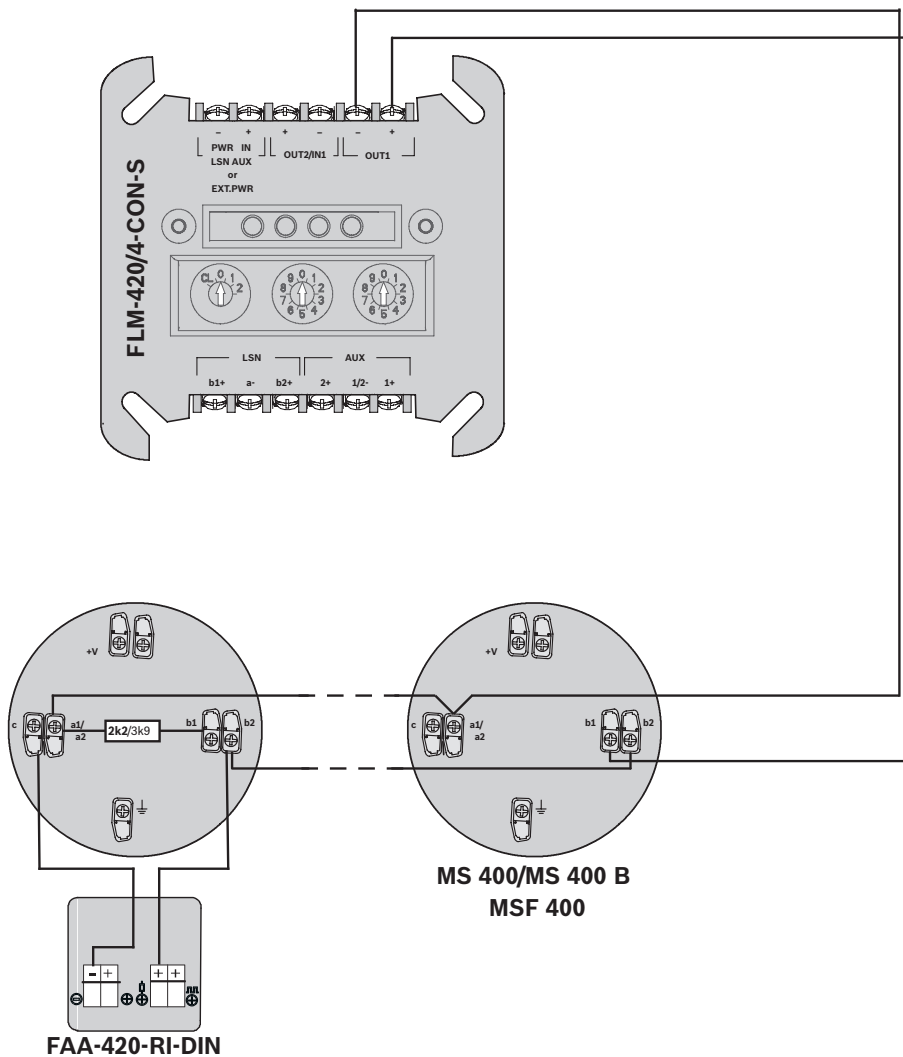
FIRERAY5000

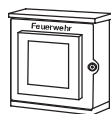
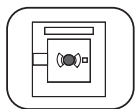
1 x 



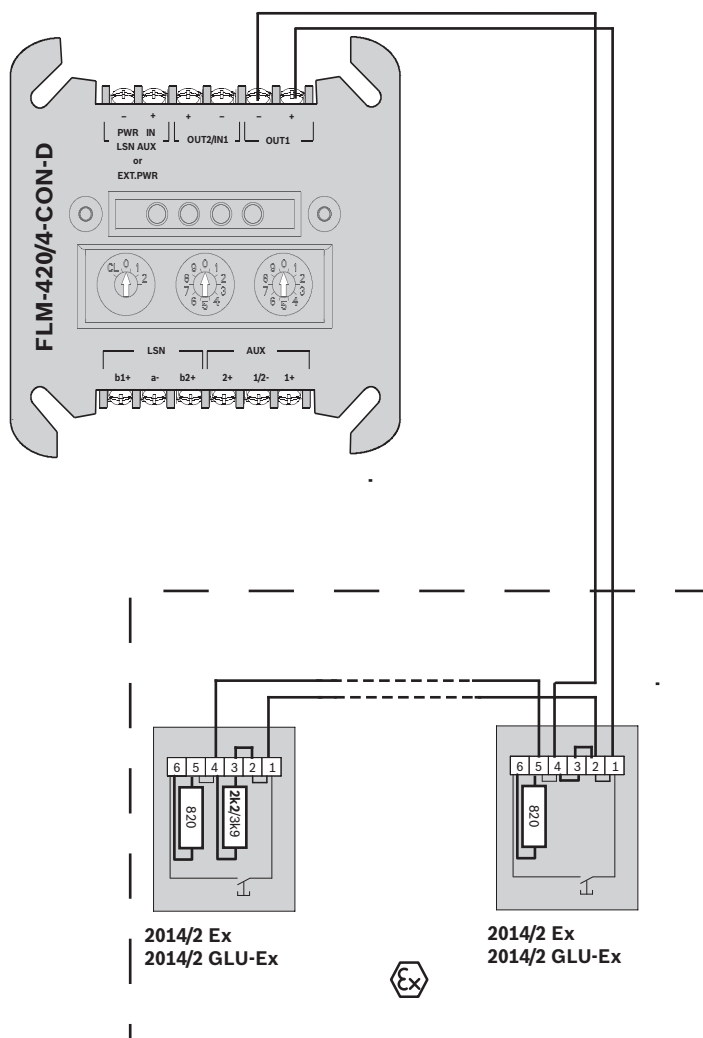
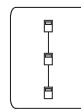


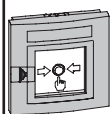
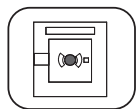
FAP-425-O/O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



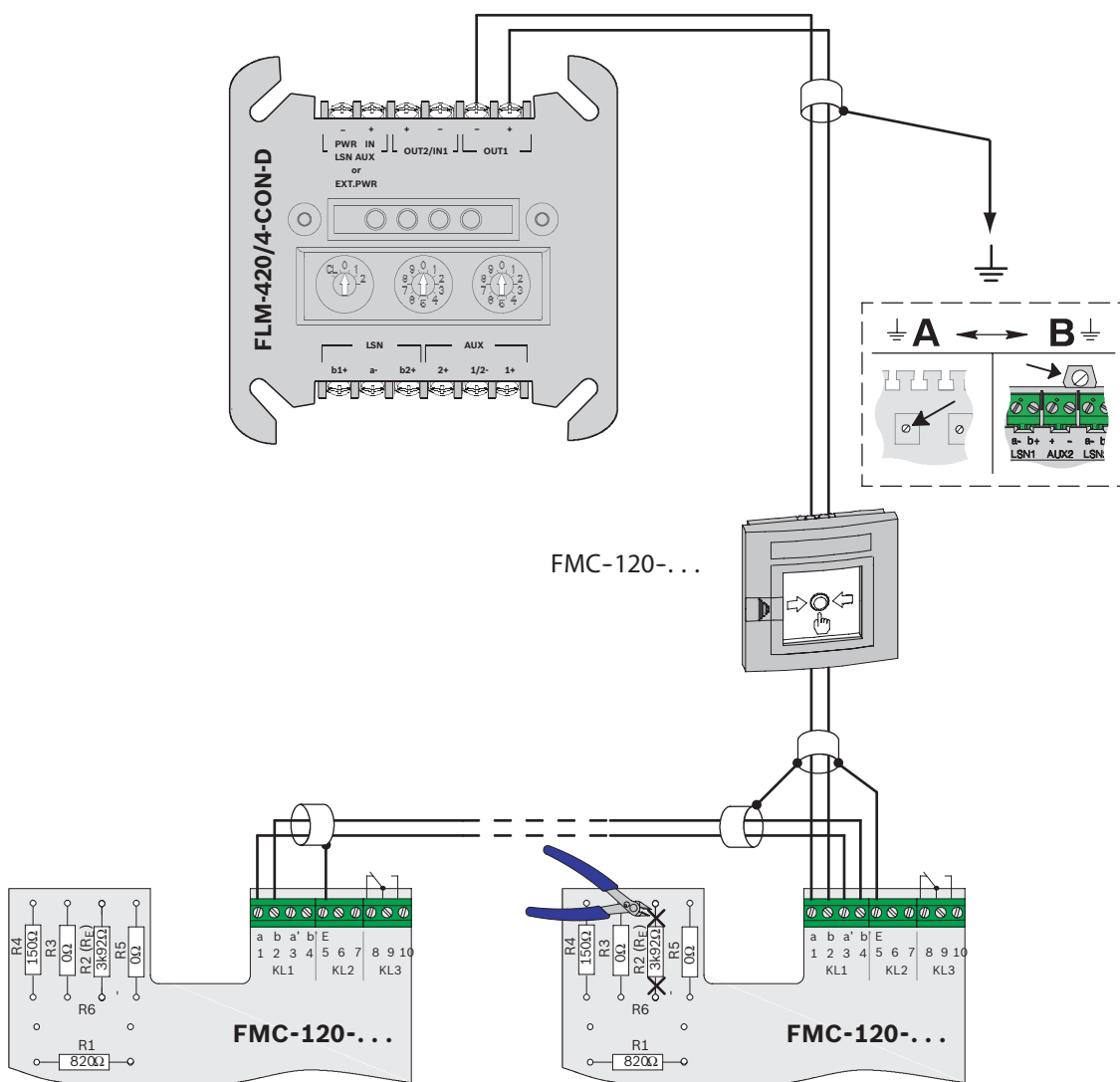
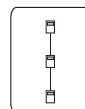


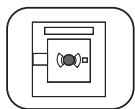
2014/2 Ex
2014/2 GLU-Ex



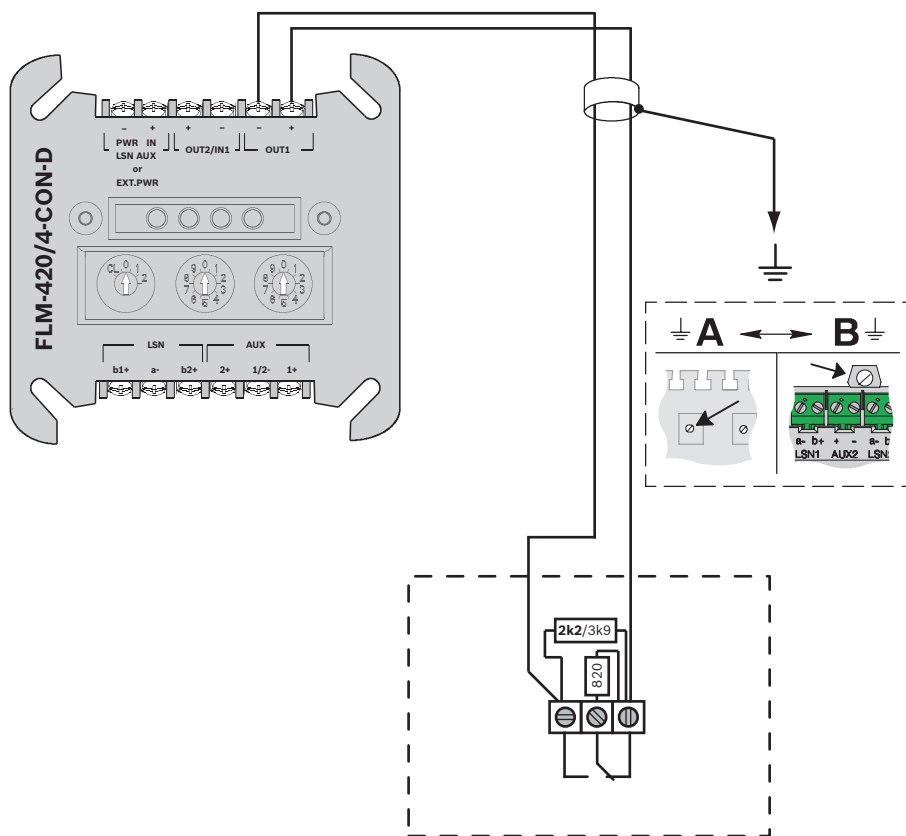
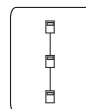


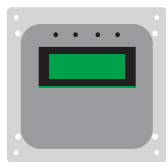
FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



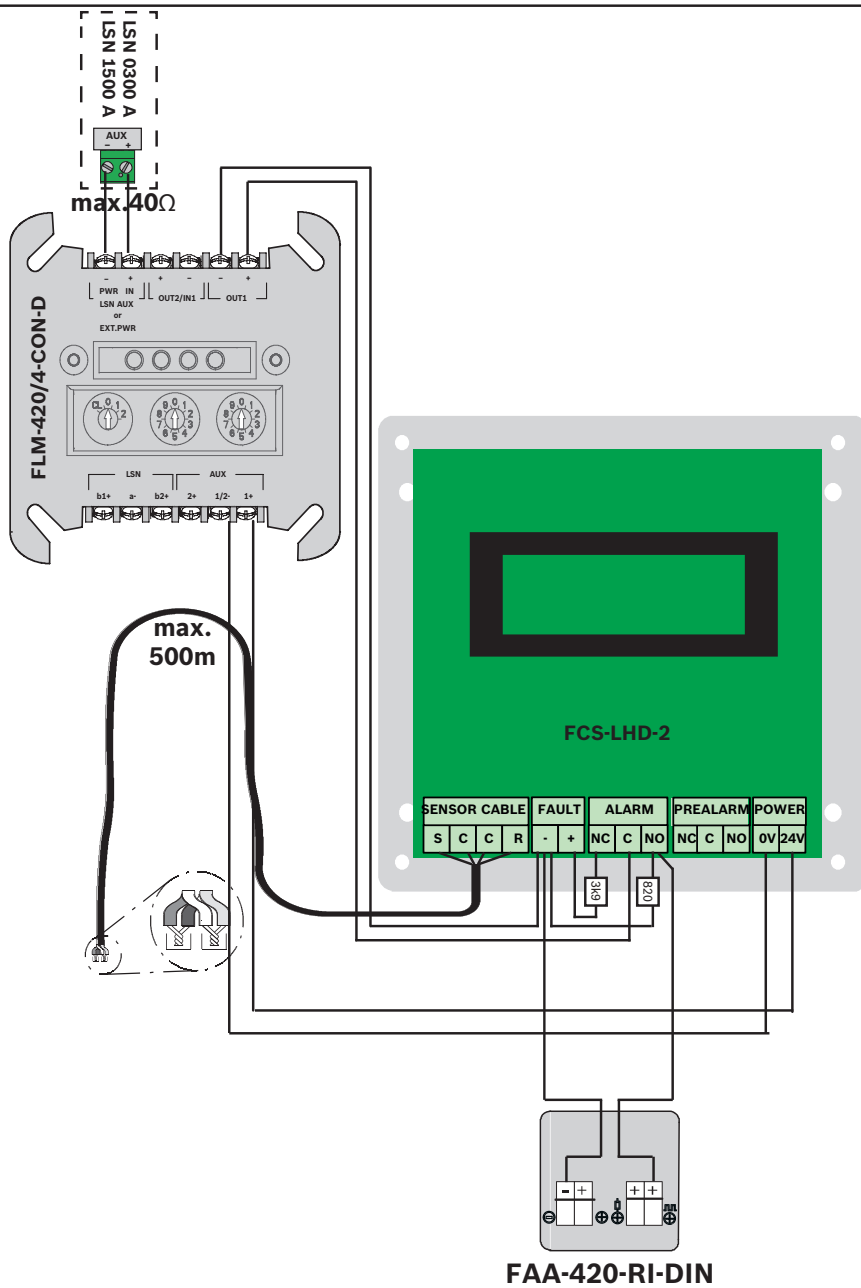
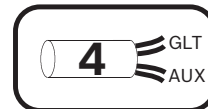
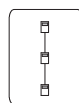


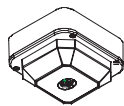
NO



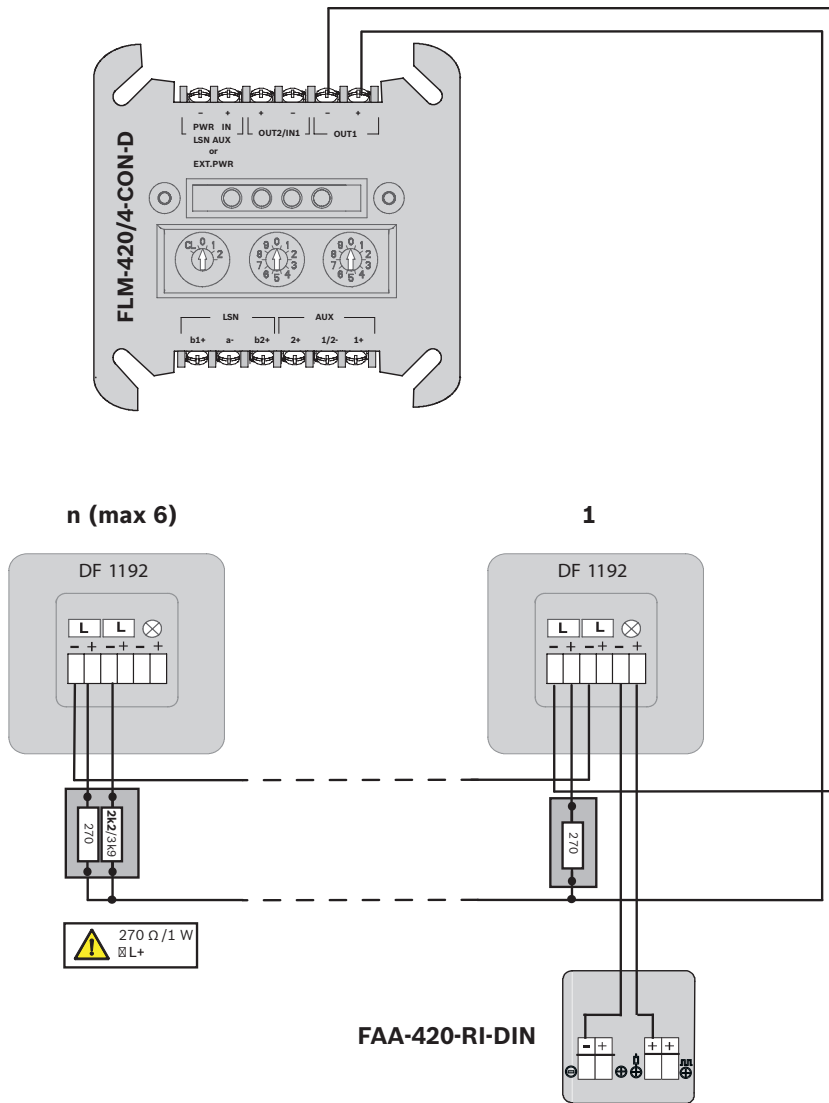


ALARMLINE II



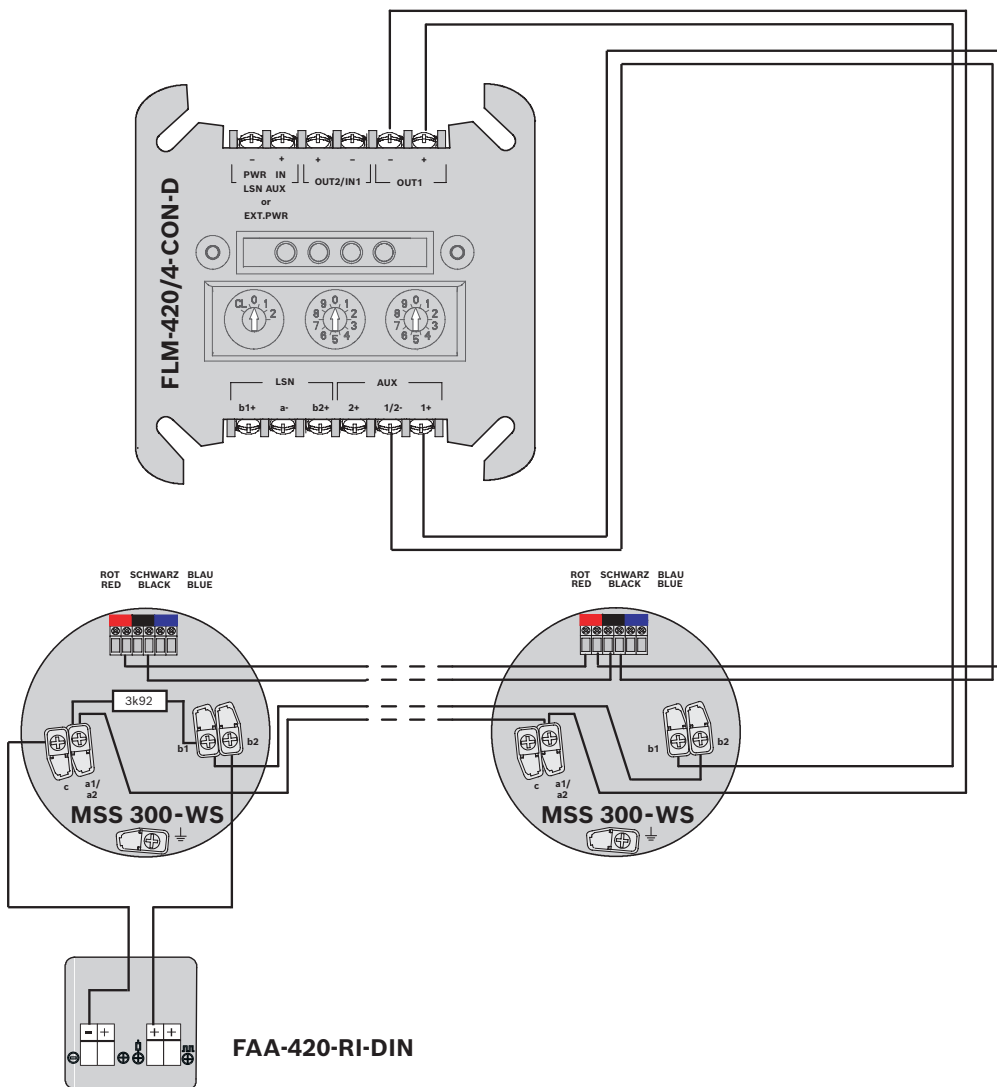


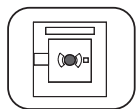
DF 1192



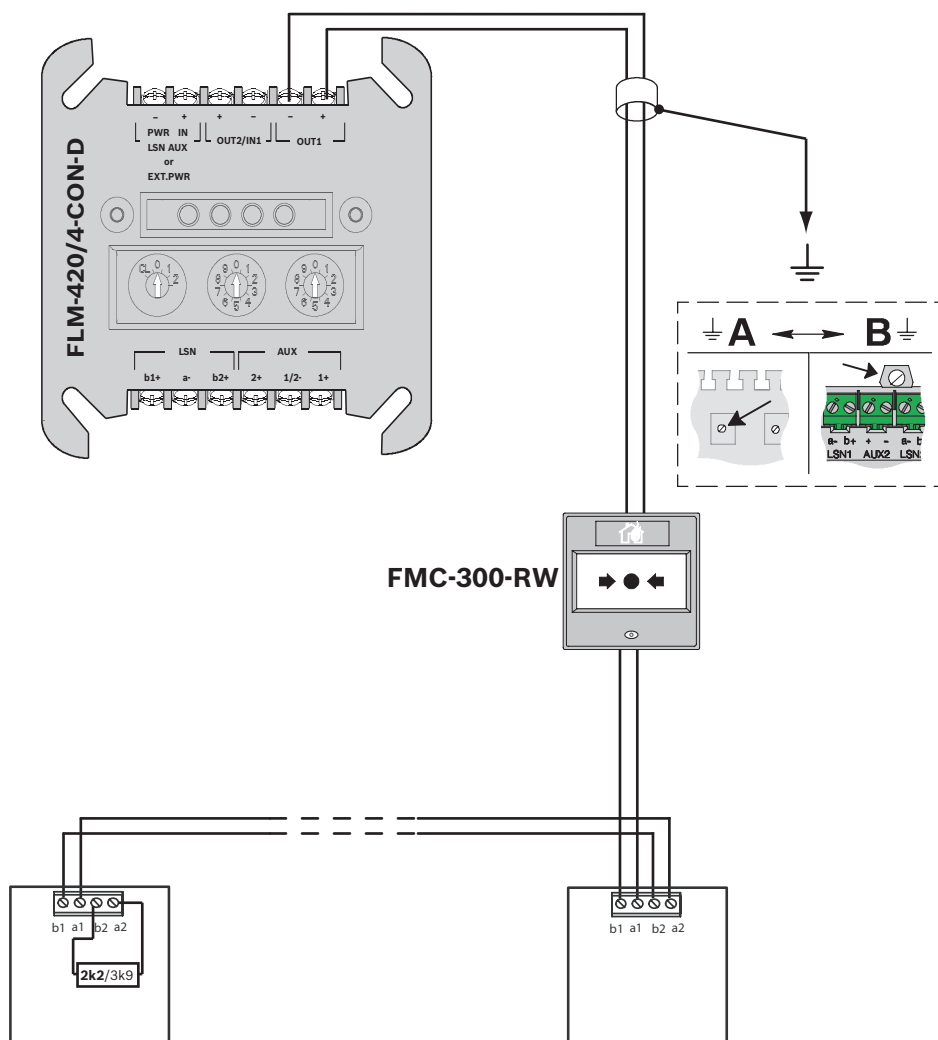
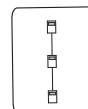


MSS 300-WS

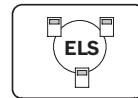




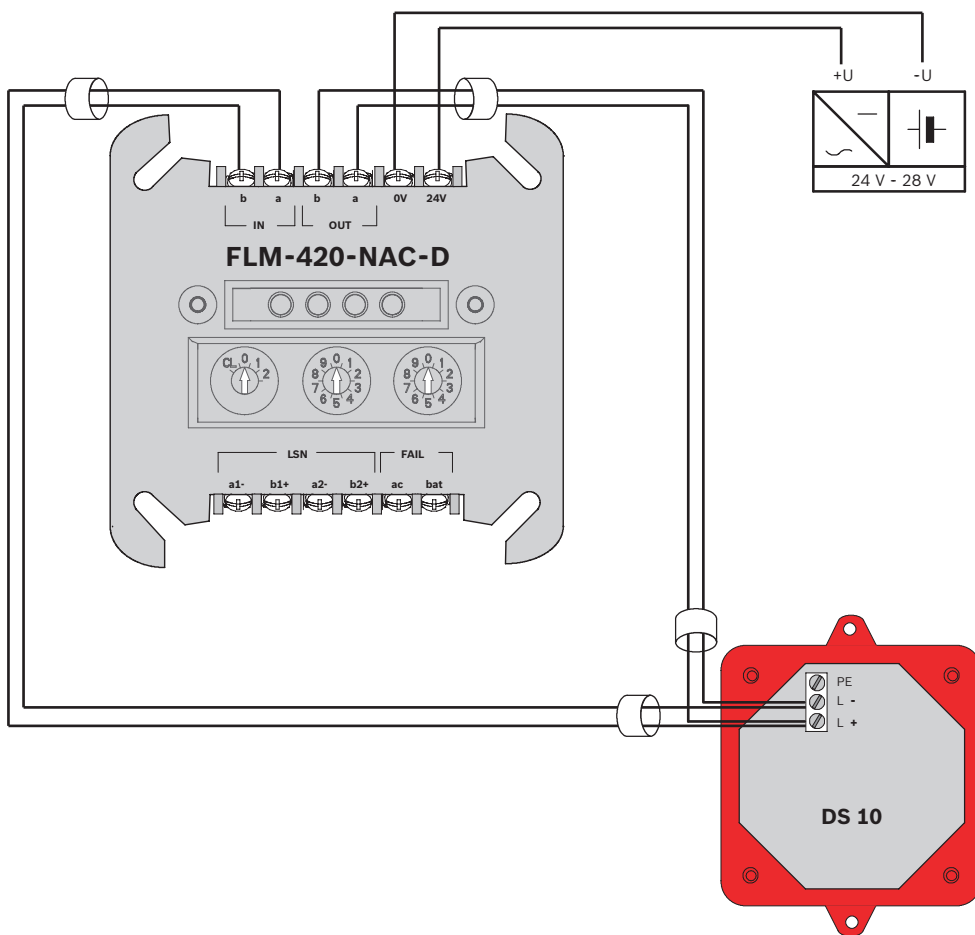
FMC-300-RW

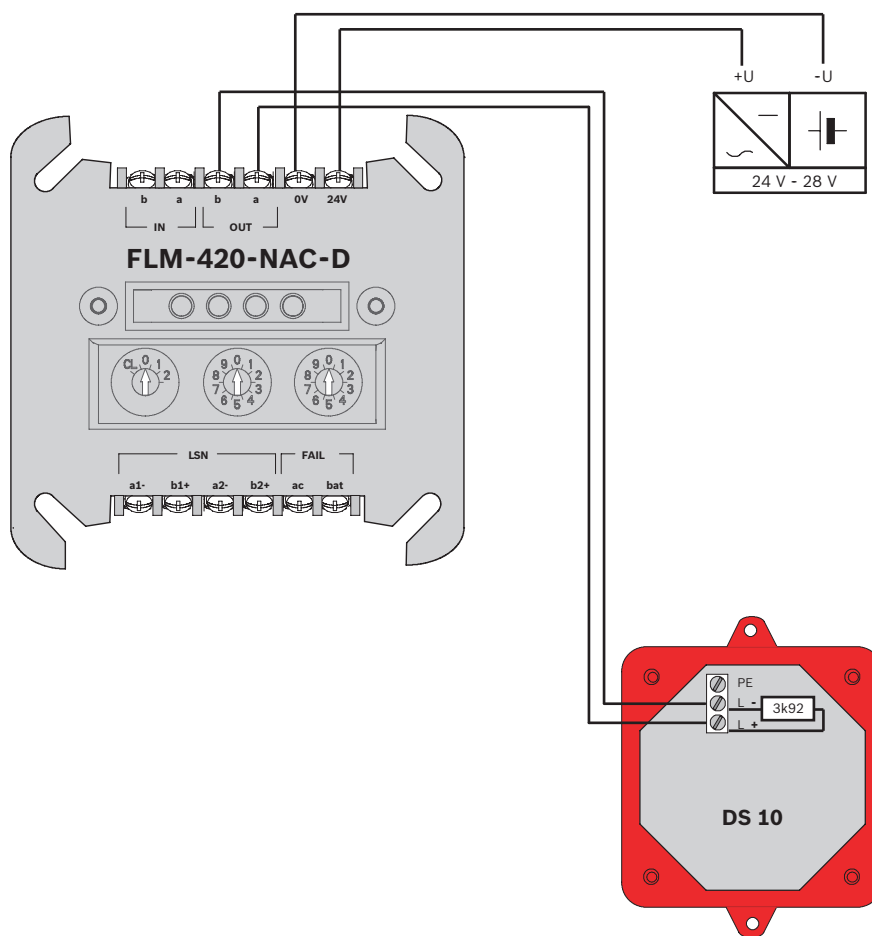
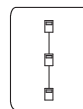


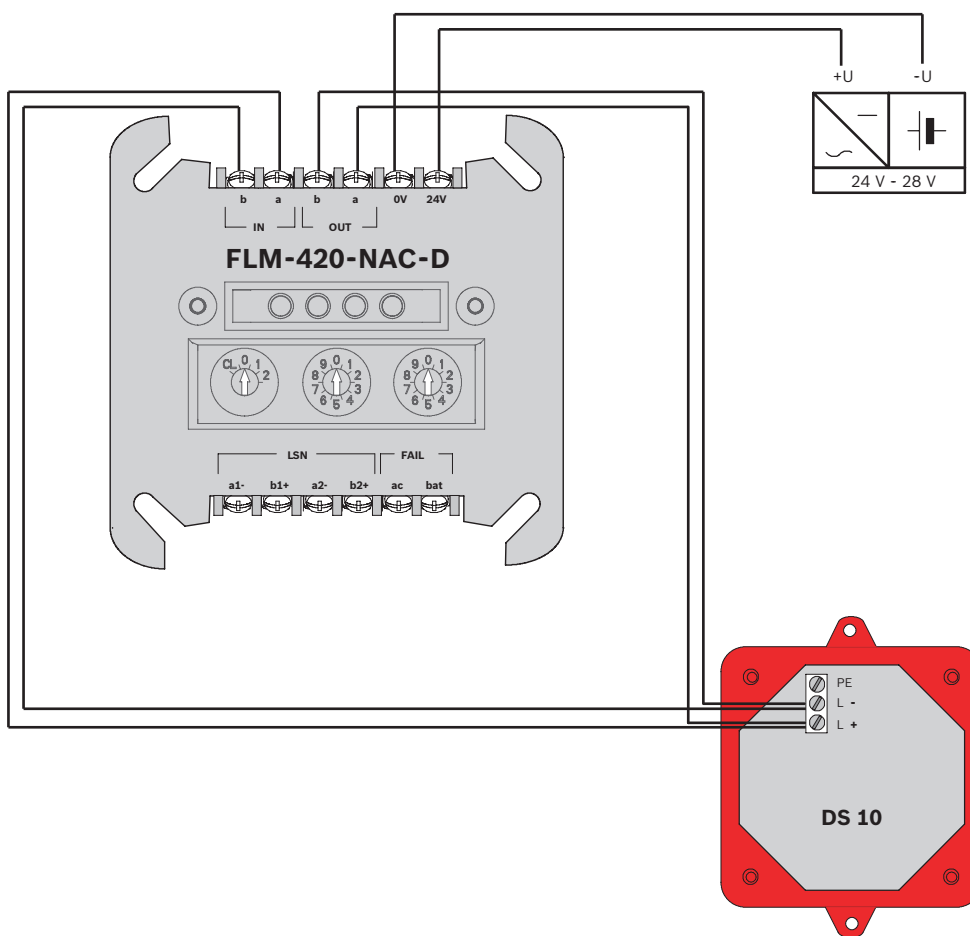
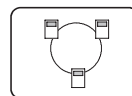
3.4.2 FLM-420-NAC-D/S



VdS 2489

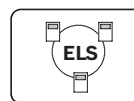




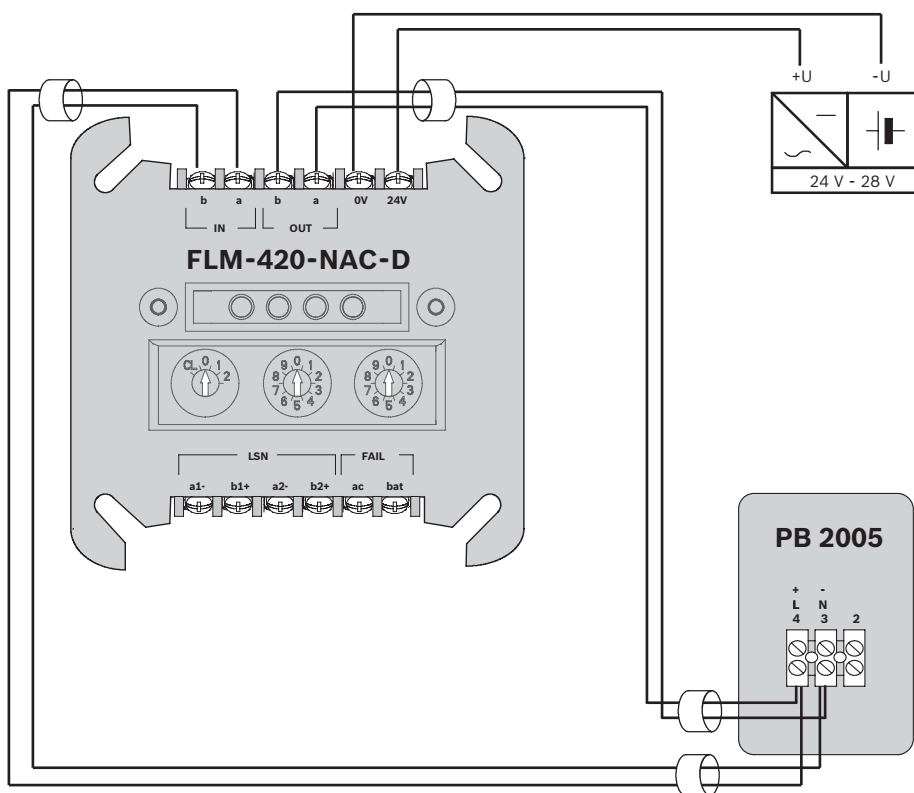


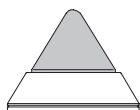


PB 2005

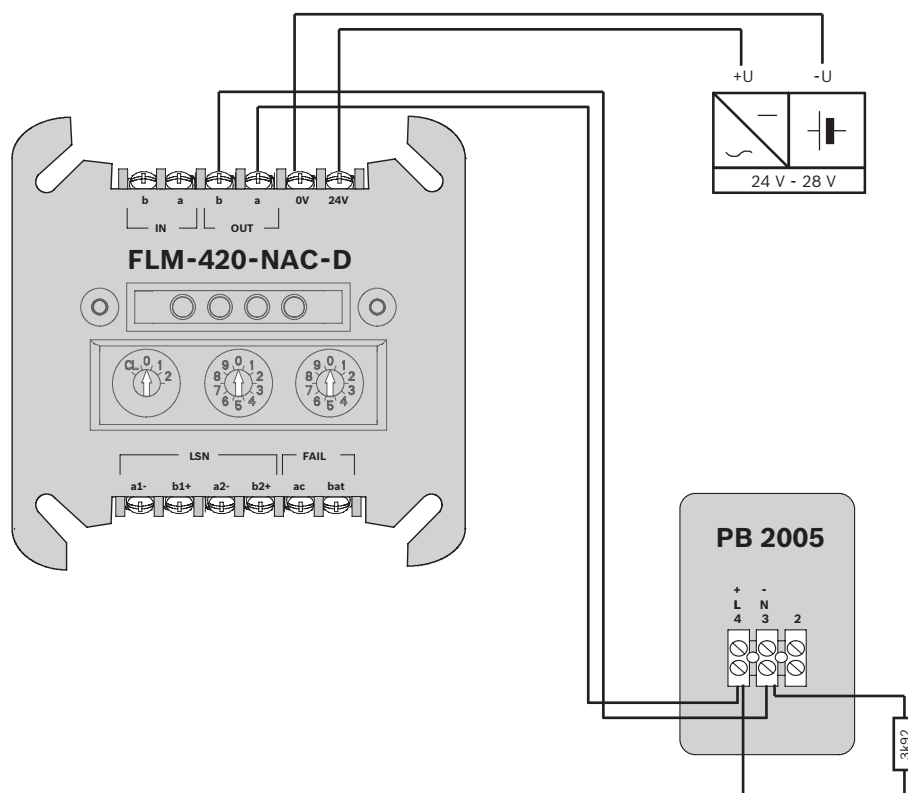
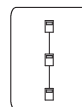


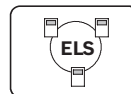
VdS 2489



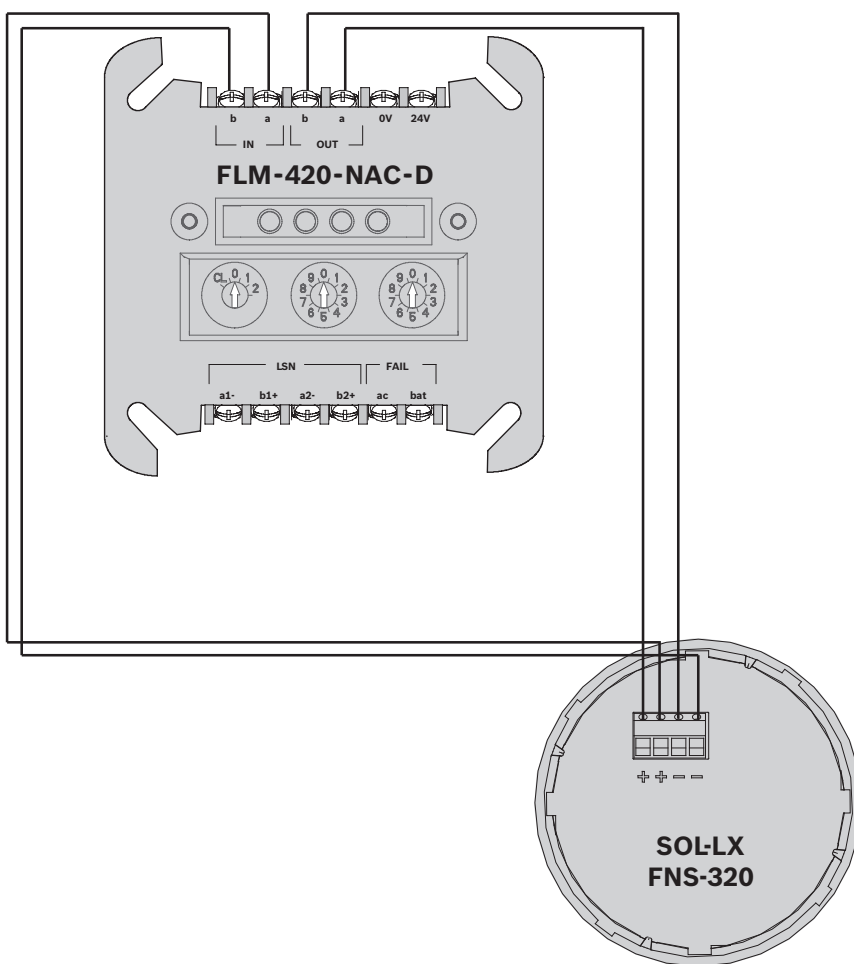


PB 2005



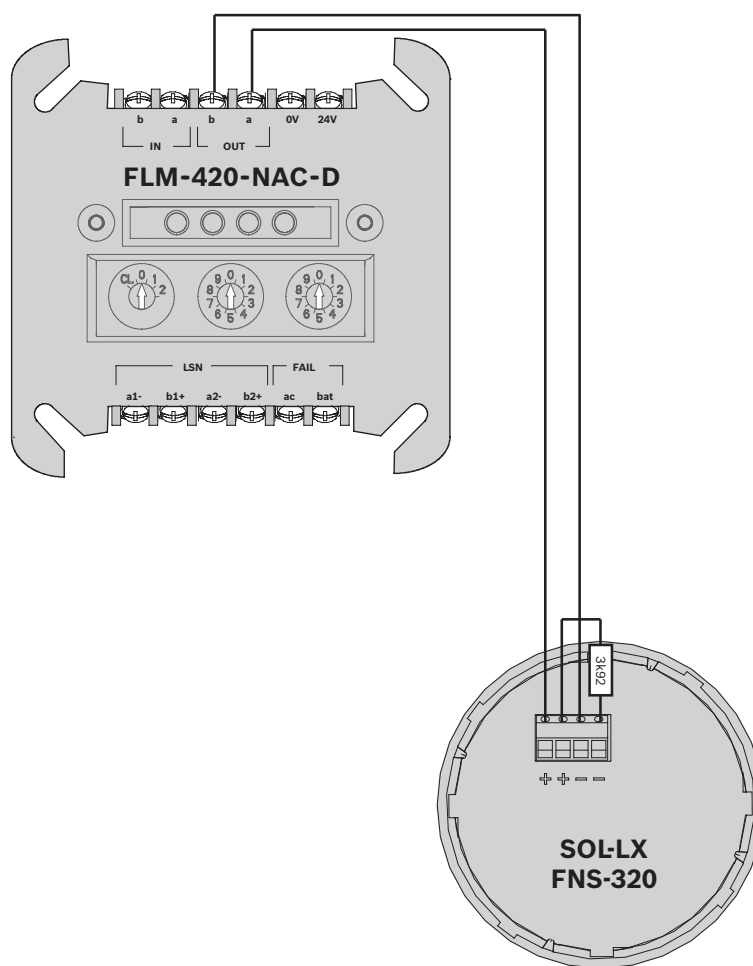
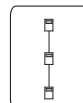


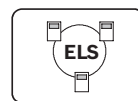
VdS 2489



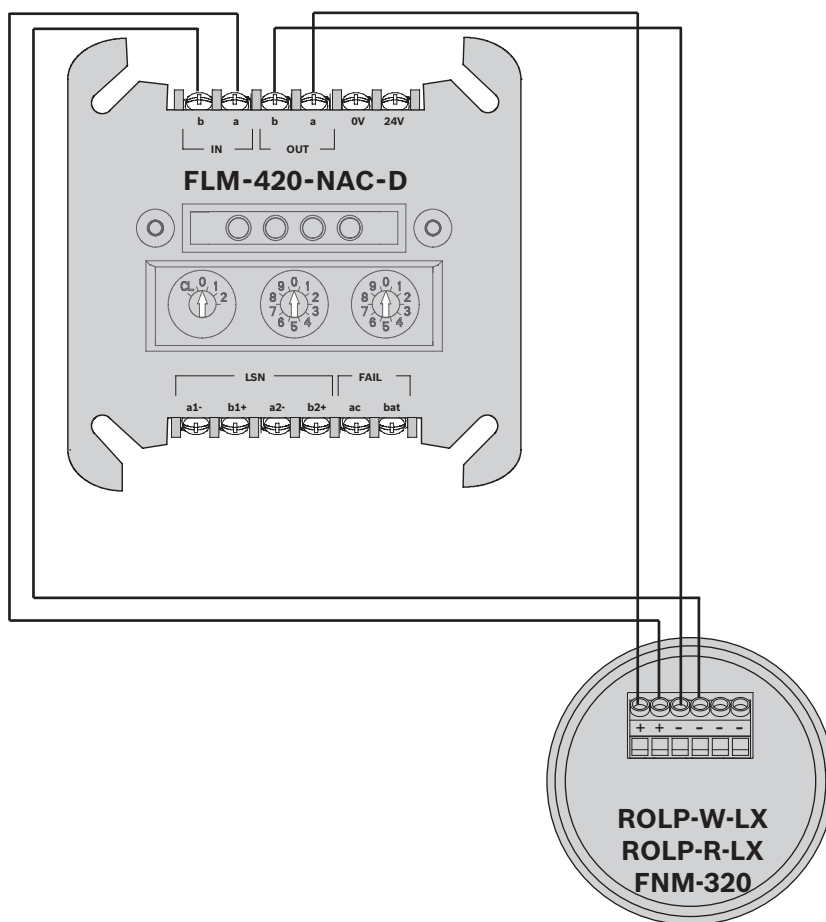


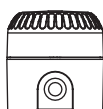
**SOL-LX
FNS-320**



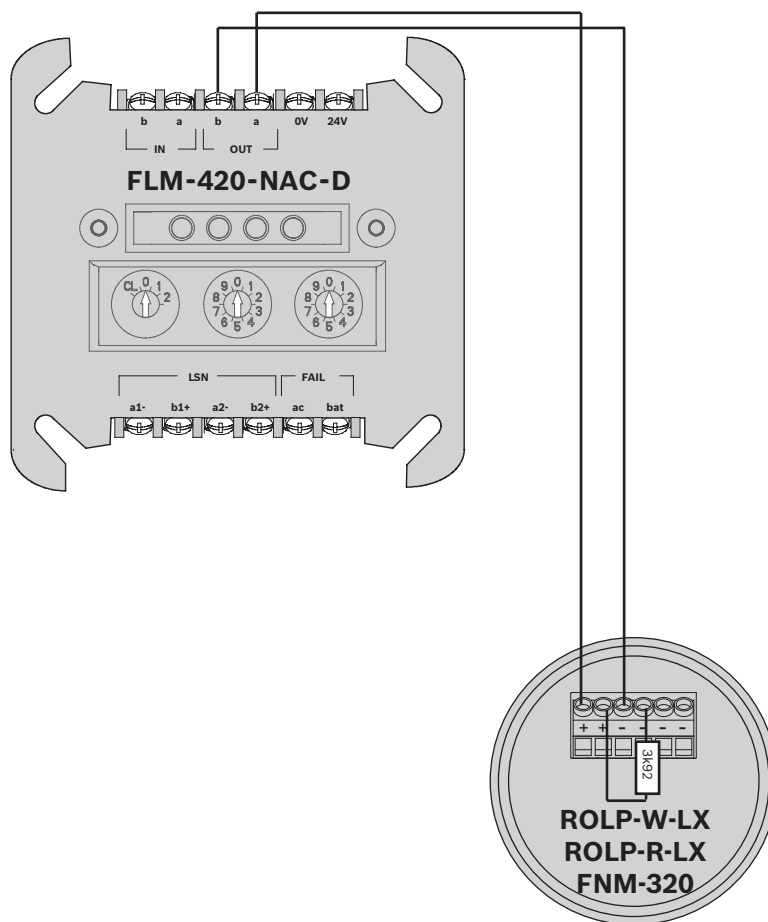
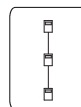


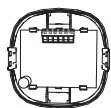
VdS 2489



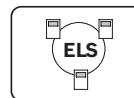


ROLP-W-LX
ROLP-R-LX
FNM-320

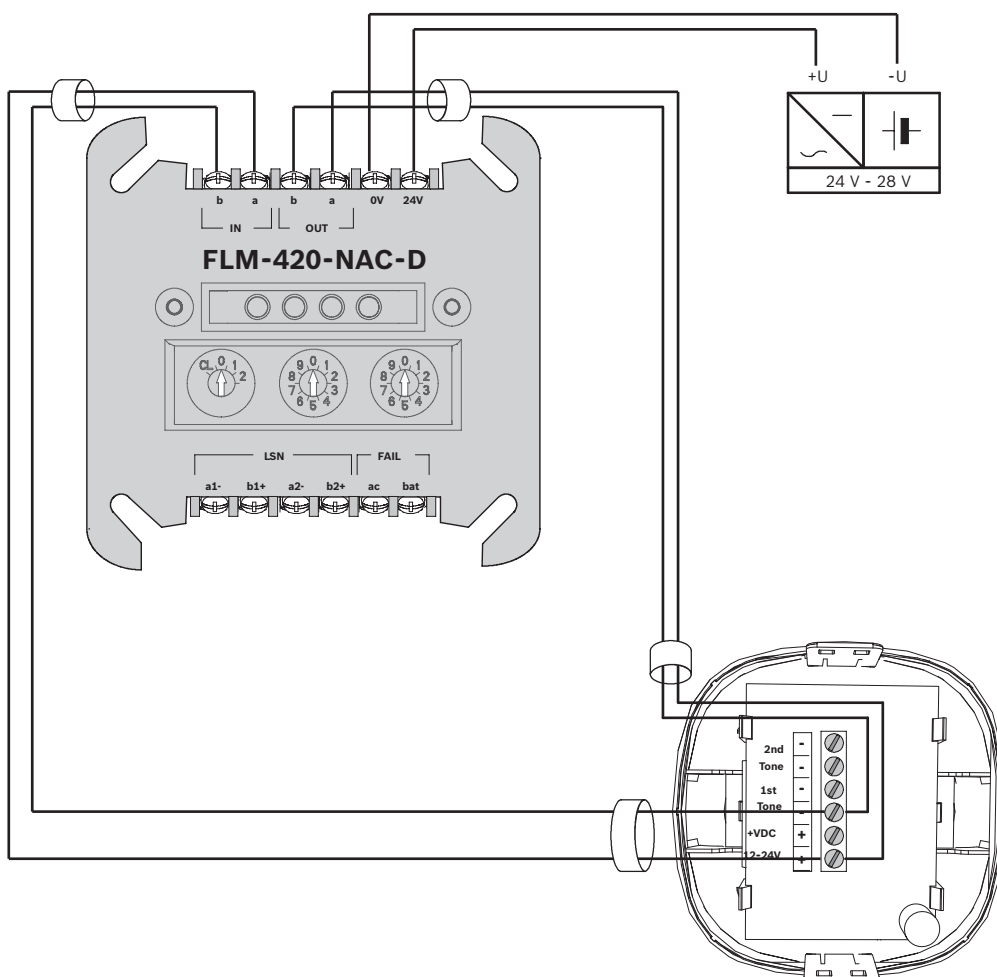


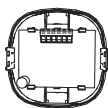


FNM-320V-A / -B

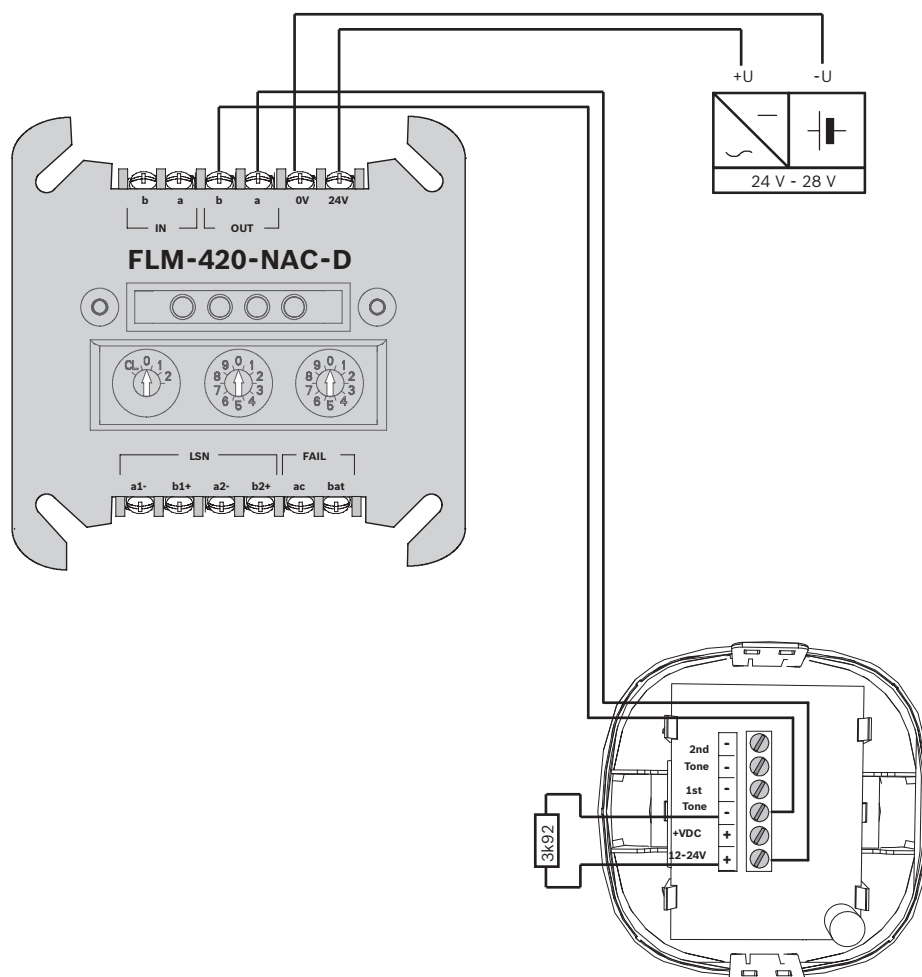
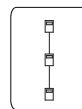


VdS 2489



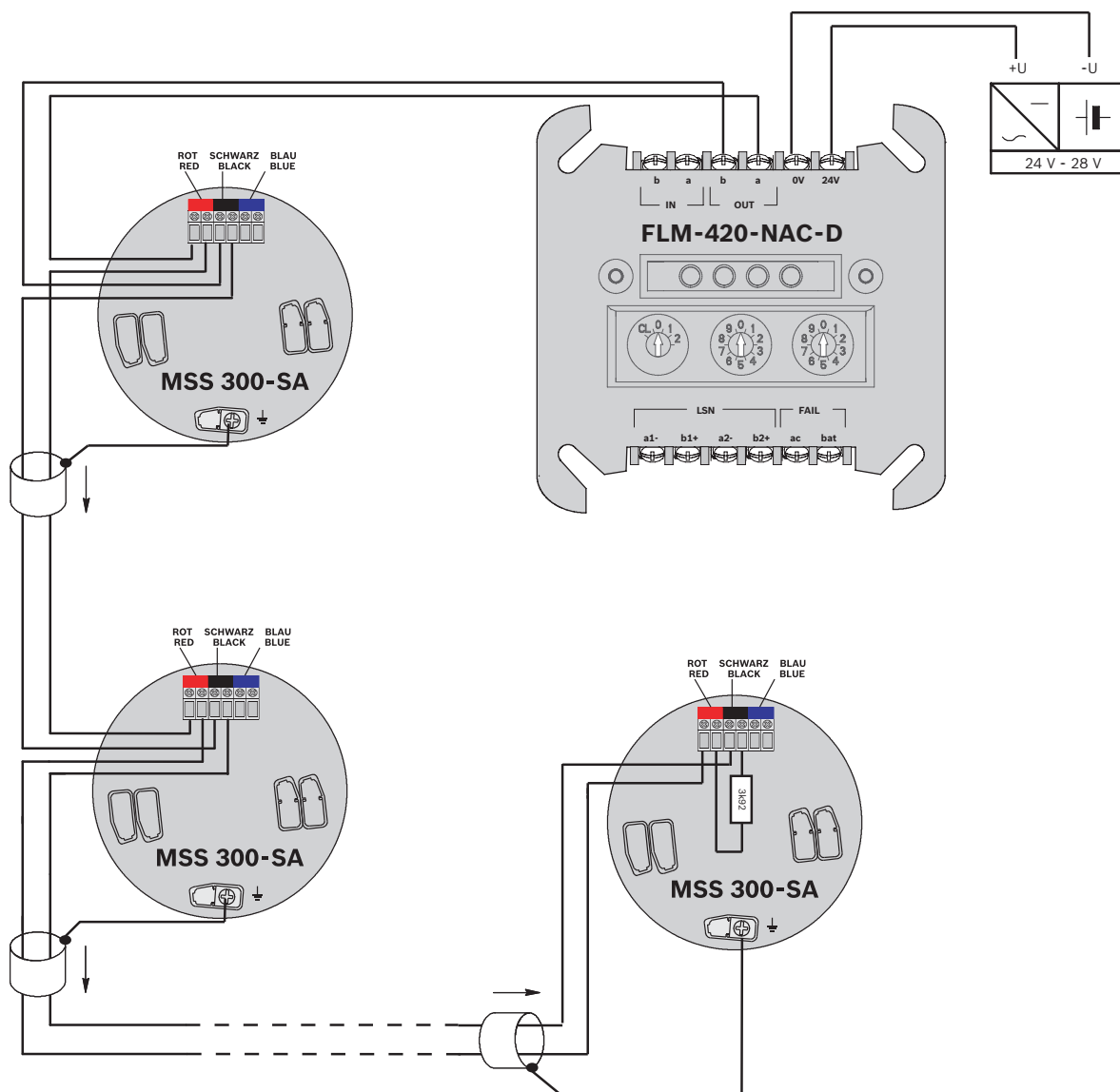
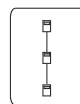


FNM-320V-A / -B





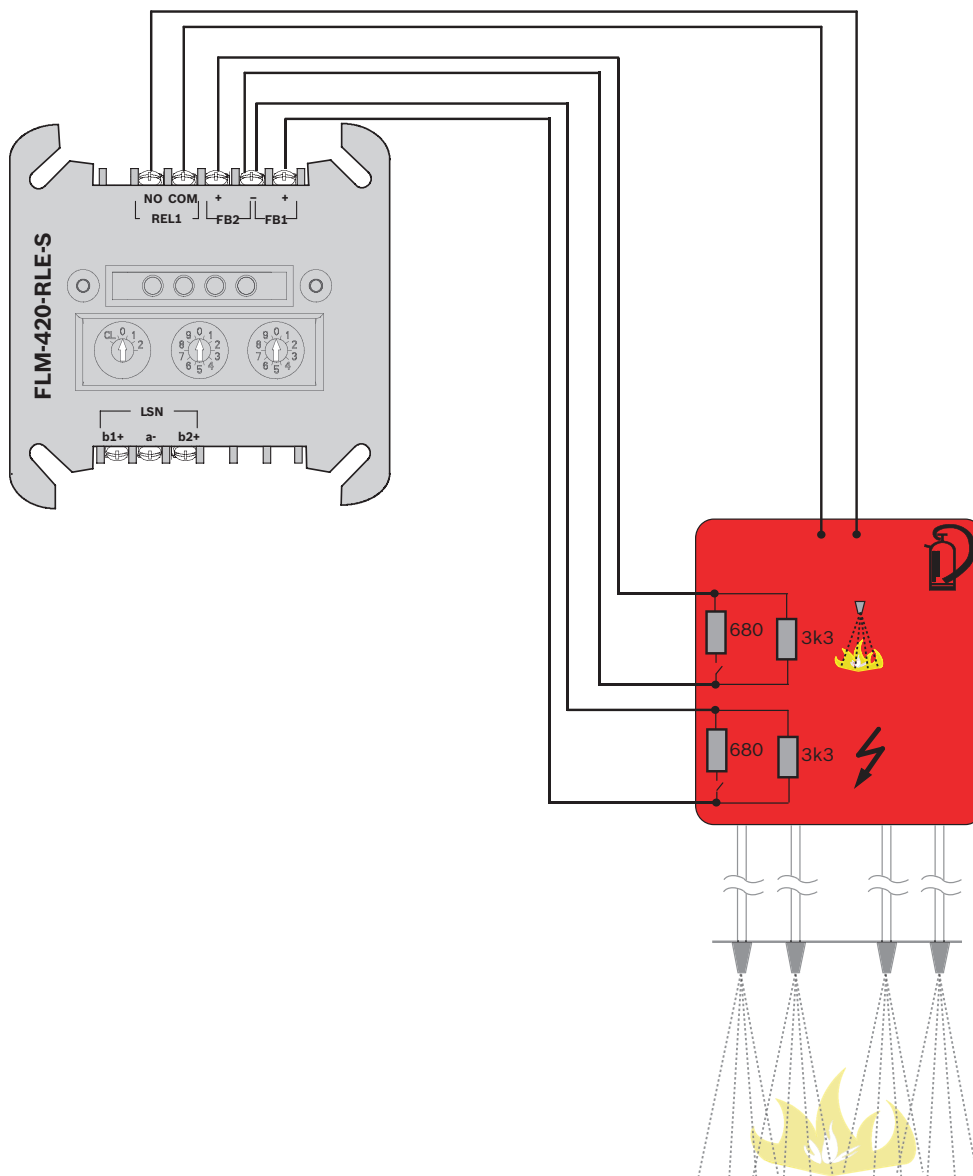
MSS 300-SA



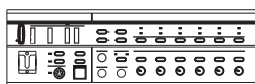
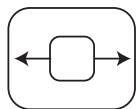
3.4.3 FLM-420-RLE-S



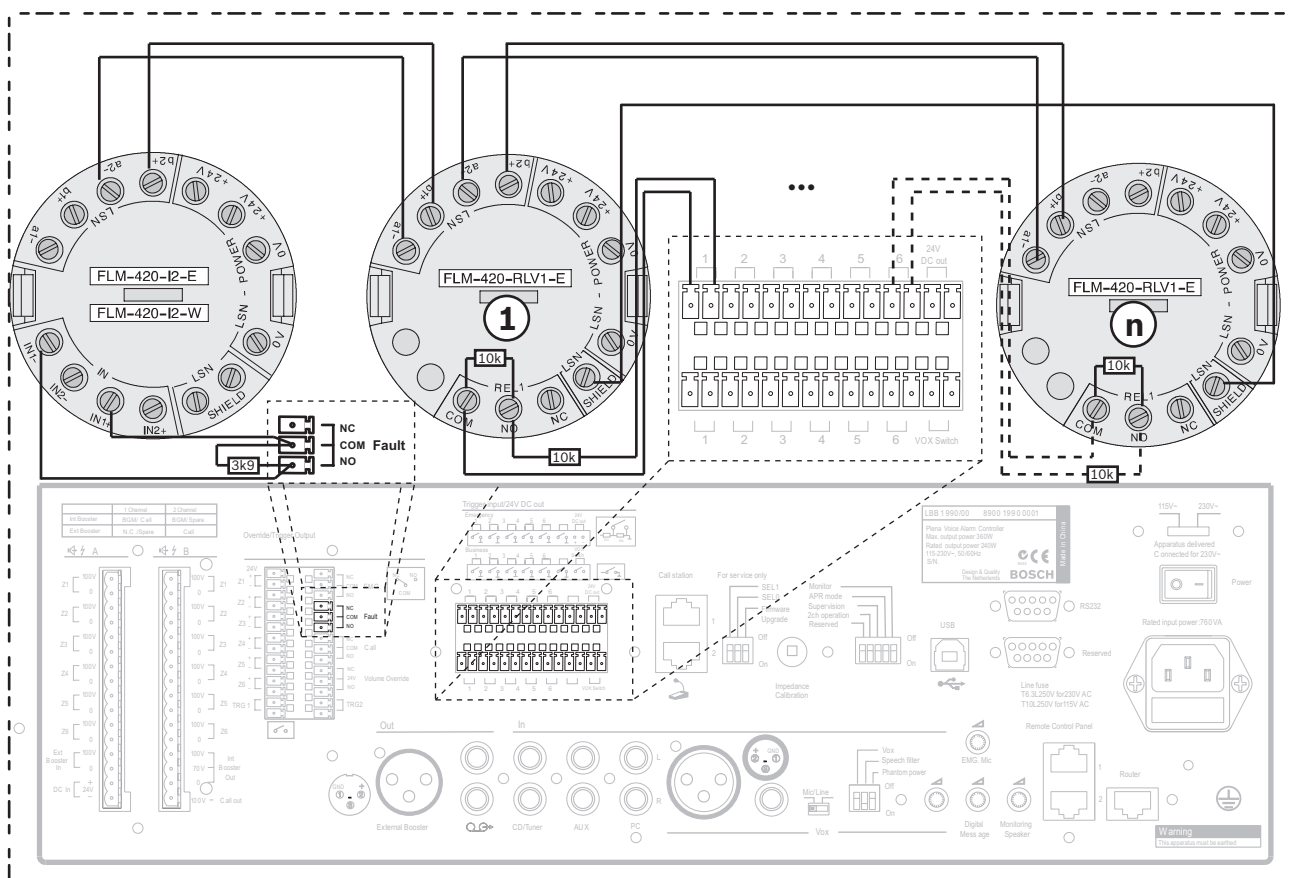
VdS 2496:2005-09



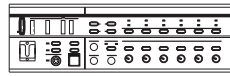
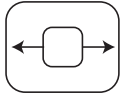
3.4.4 FLM-420-RLV1-E



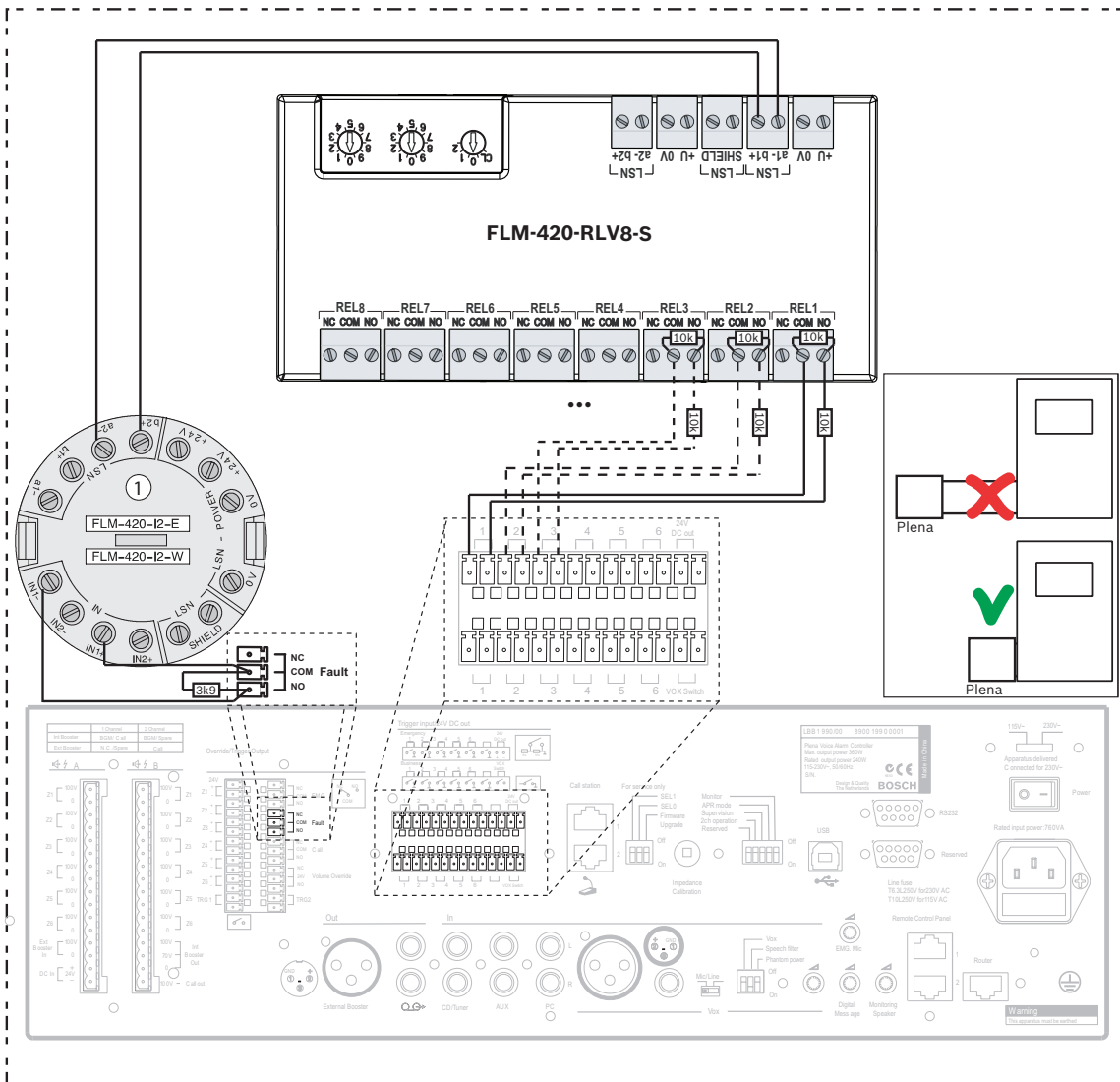
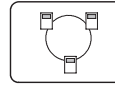
Plena



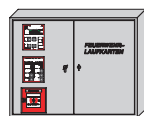
3.4.5 FLM-420-RLV8-S



Plena

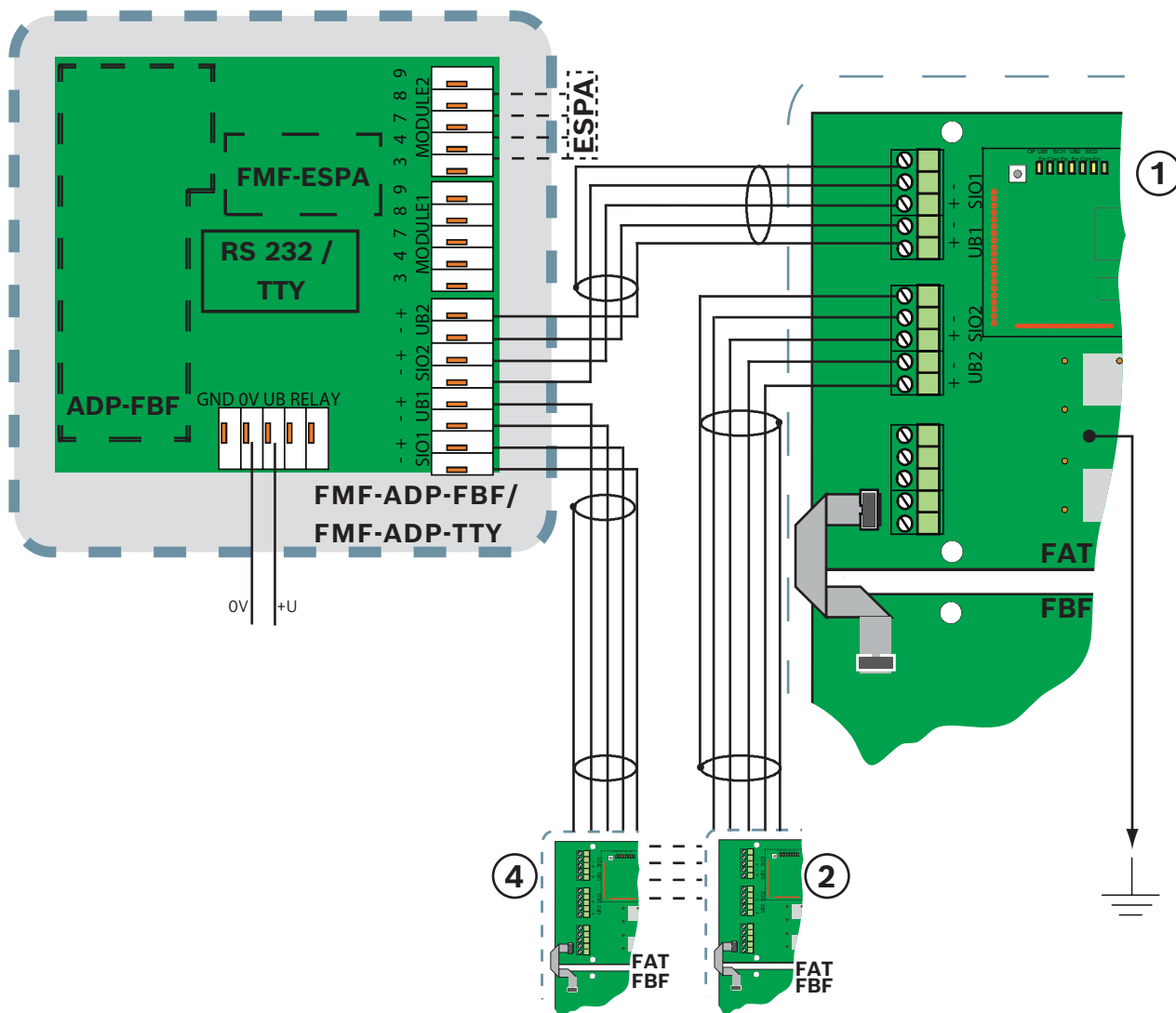


3.4.6 FMF-ADP-FBF/FMF-ADP-TTY



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

ELS VdS 2489

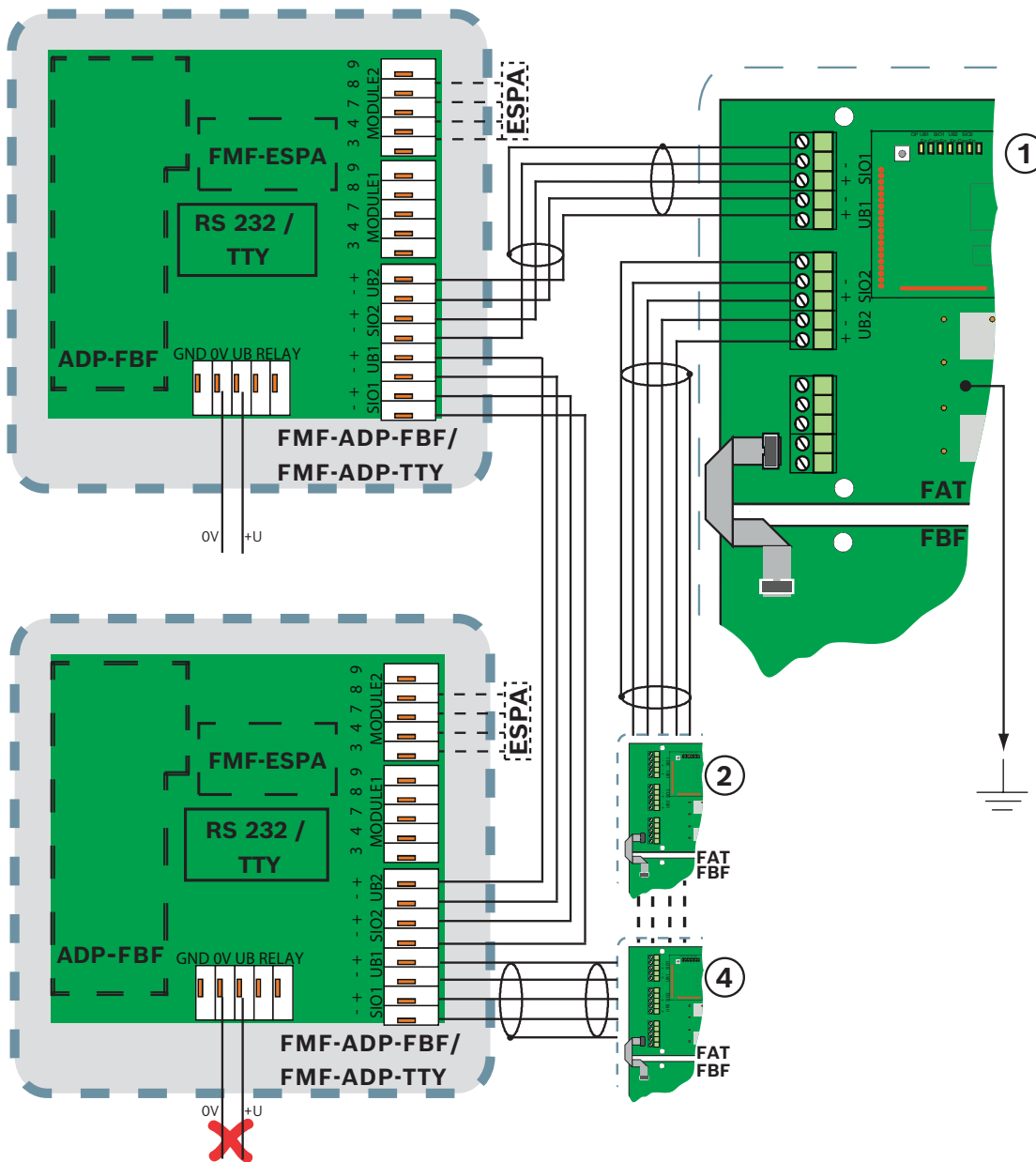




FAT4000 FBF4000 ADP4000

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

ELS Vds 2489



3.5

EOL

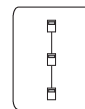
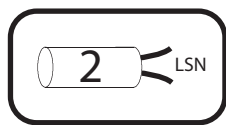


LSN 0300 A, Page 158

FLM-420/4-CON-S/D, Page 200

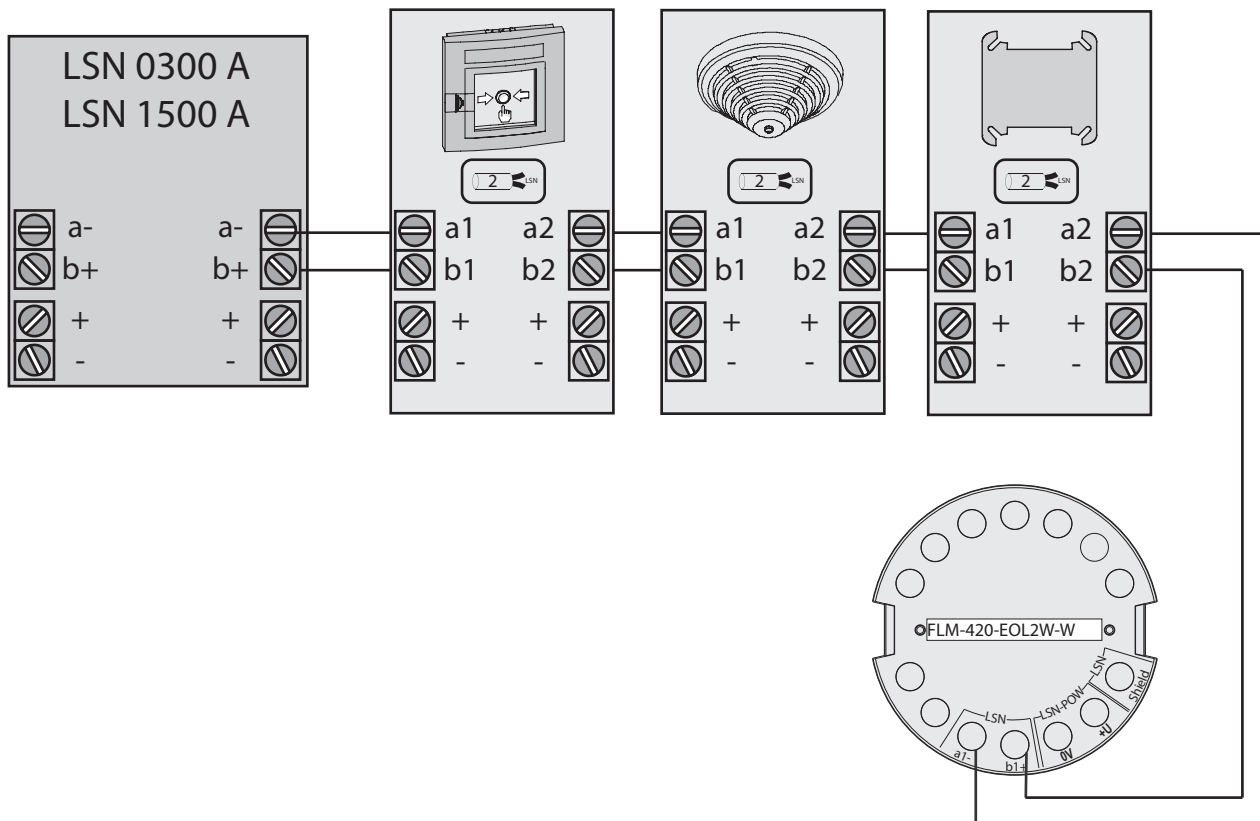
3.5.1

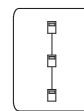
LSN 0300 A



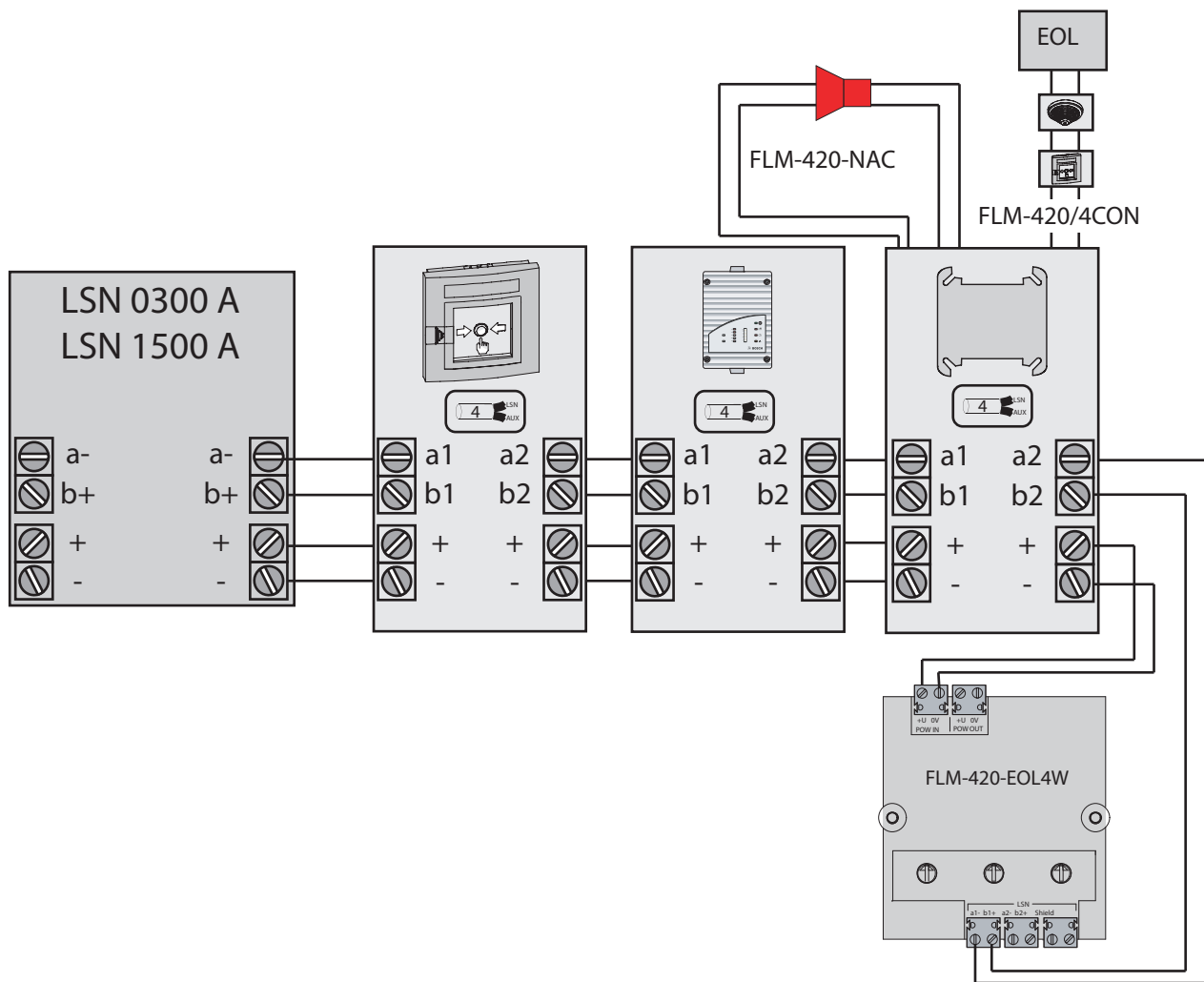
ELS

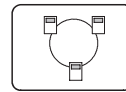
VdS 2489



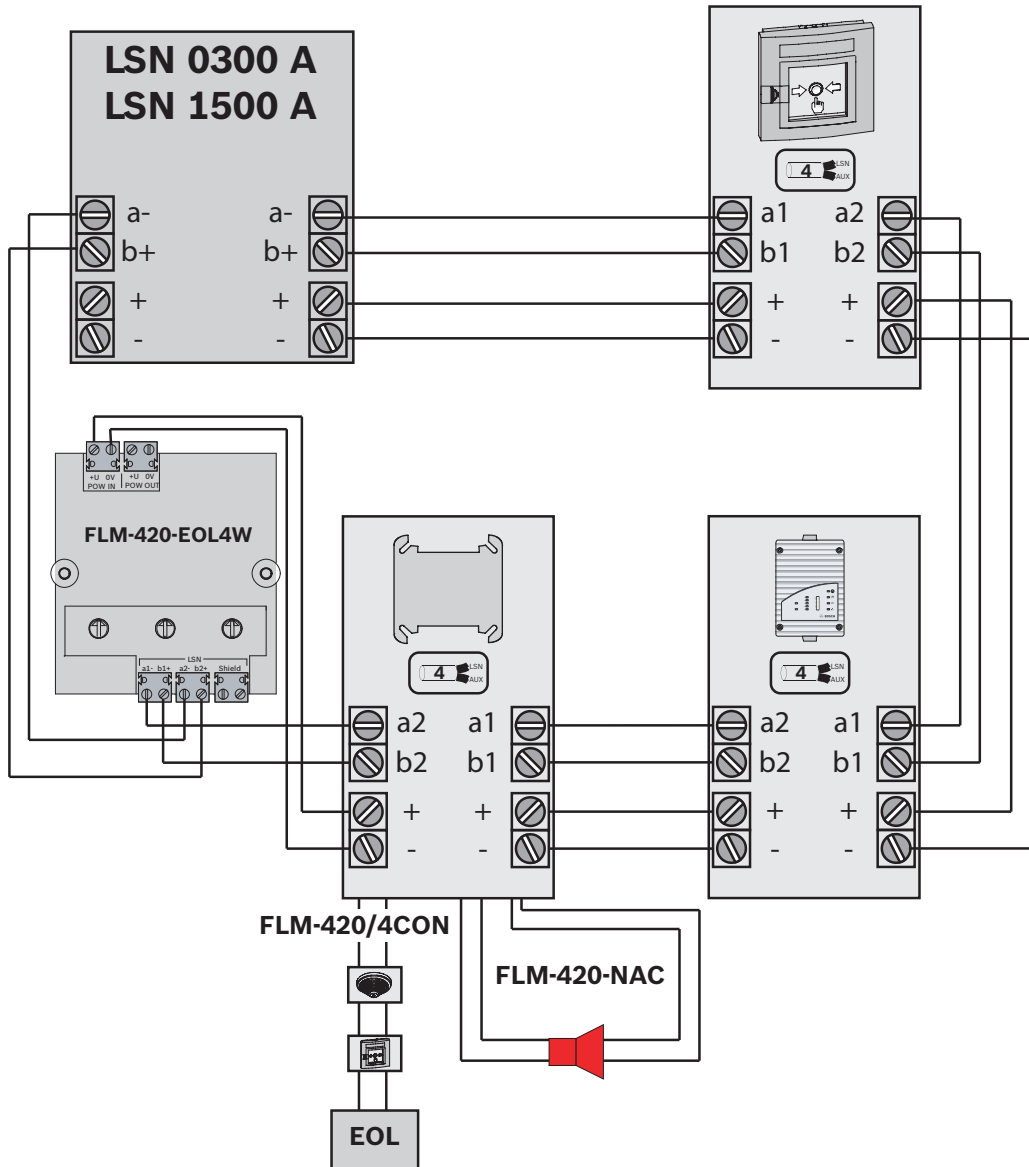


ELS VdS 2489





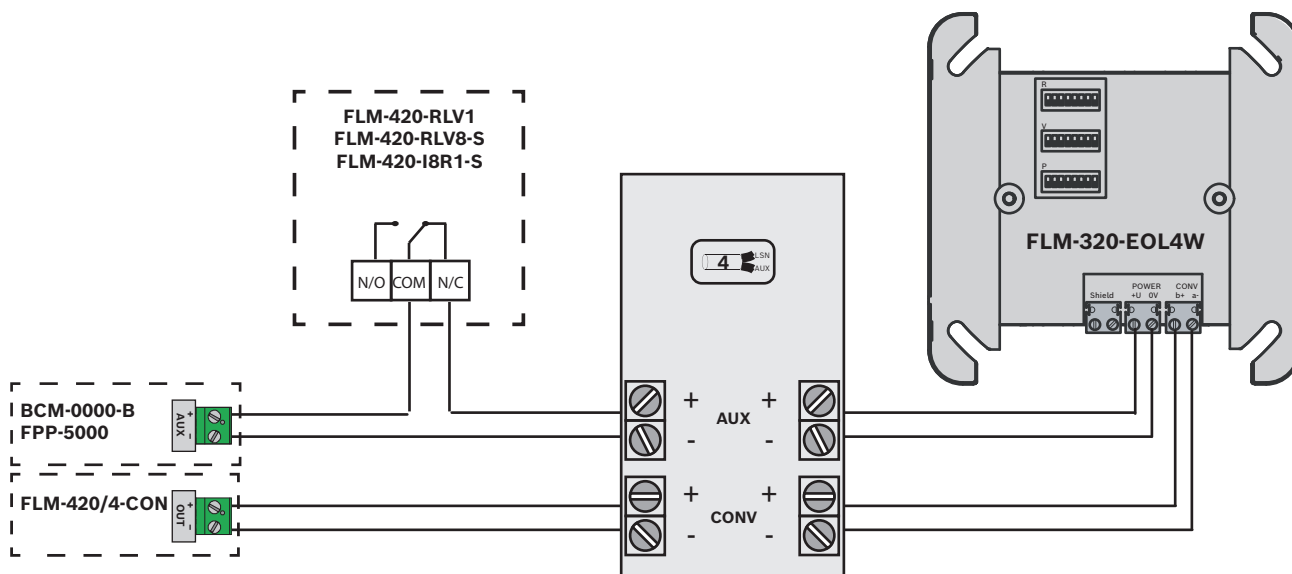
ELV VdS 2489

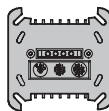
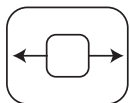




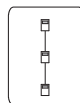
Reset action

ELS VdS 2489

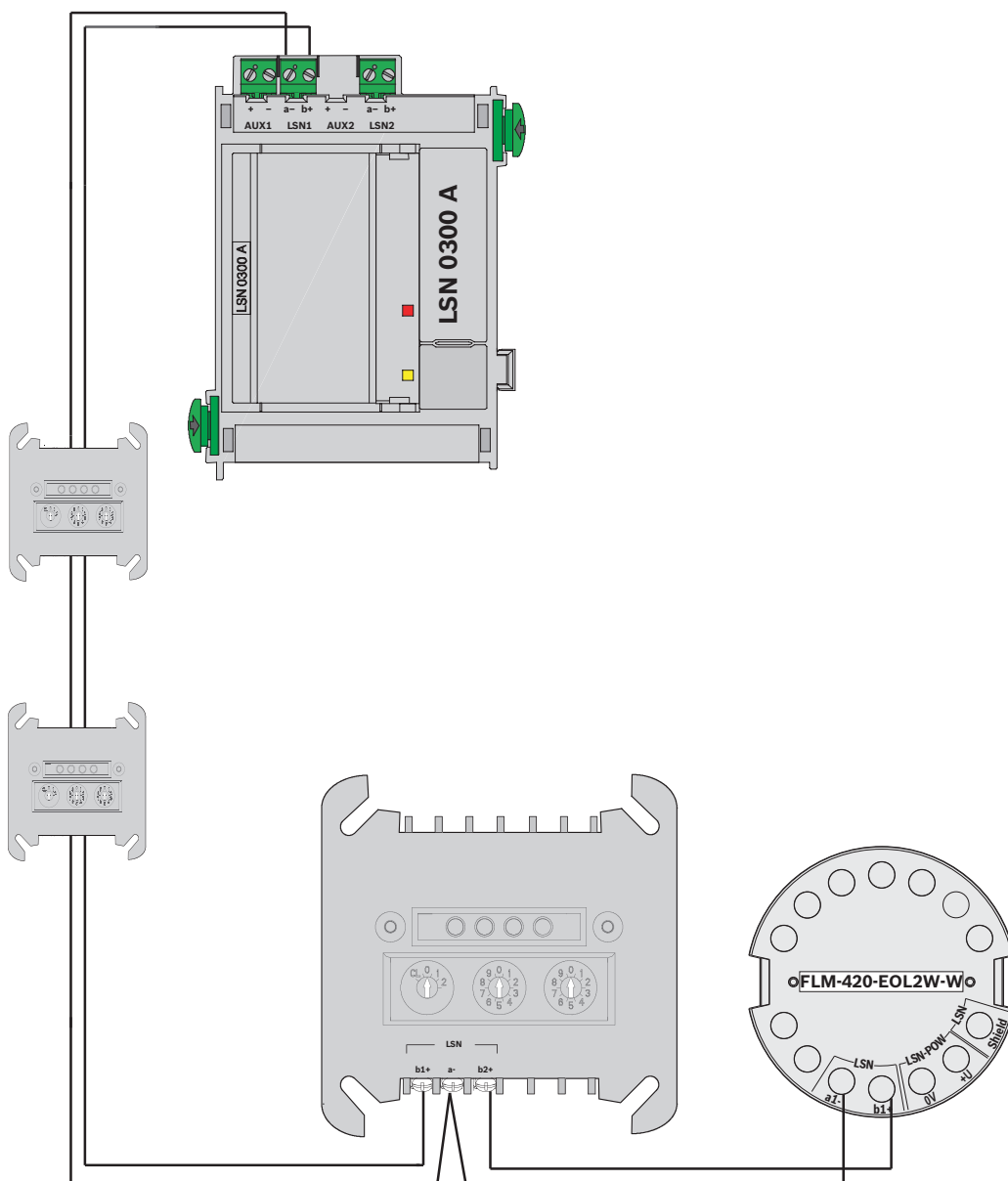


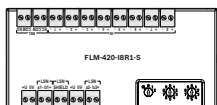
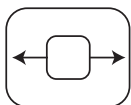


FLM-420-I2-D
 FLM-420-O111-D
 FLM-420-RHV-D/S
 FLM-420-RLV1-D

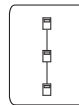


ELS VdS 2489

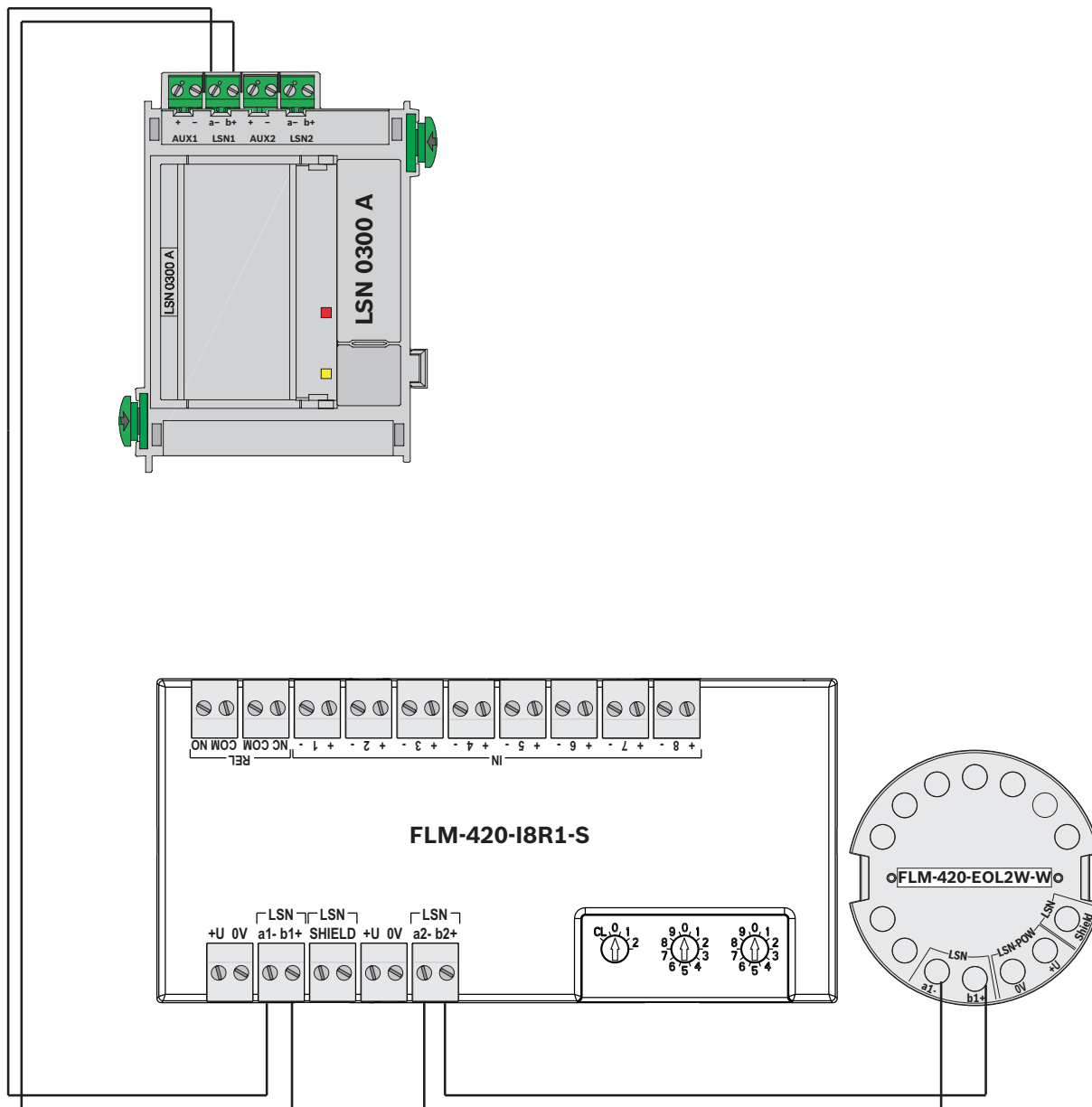


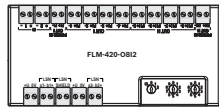
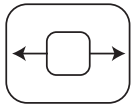


FLM-420-I8R1-S

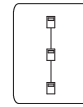


ELS VdS 2489

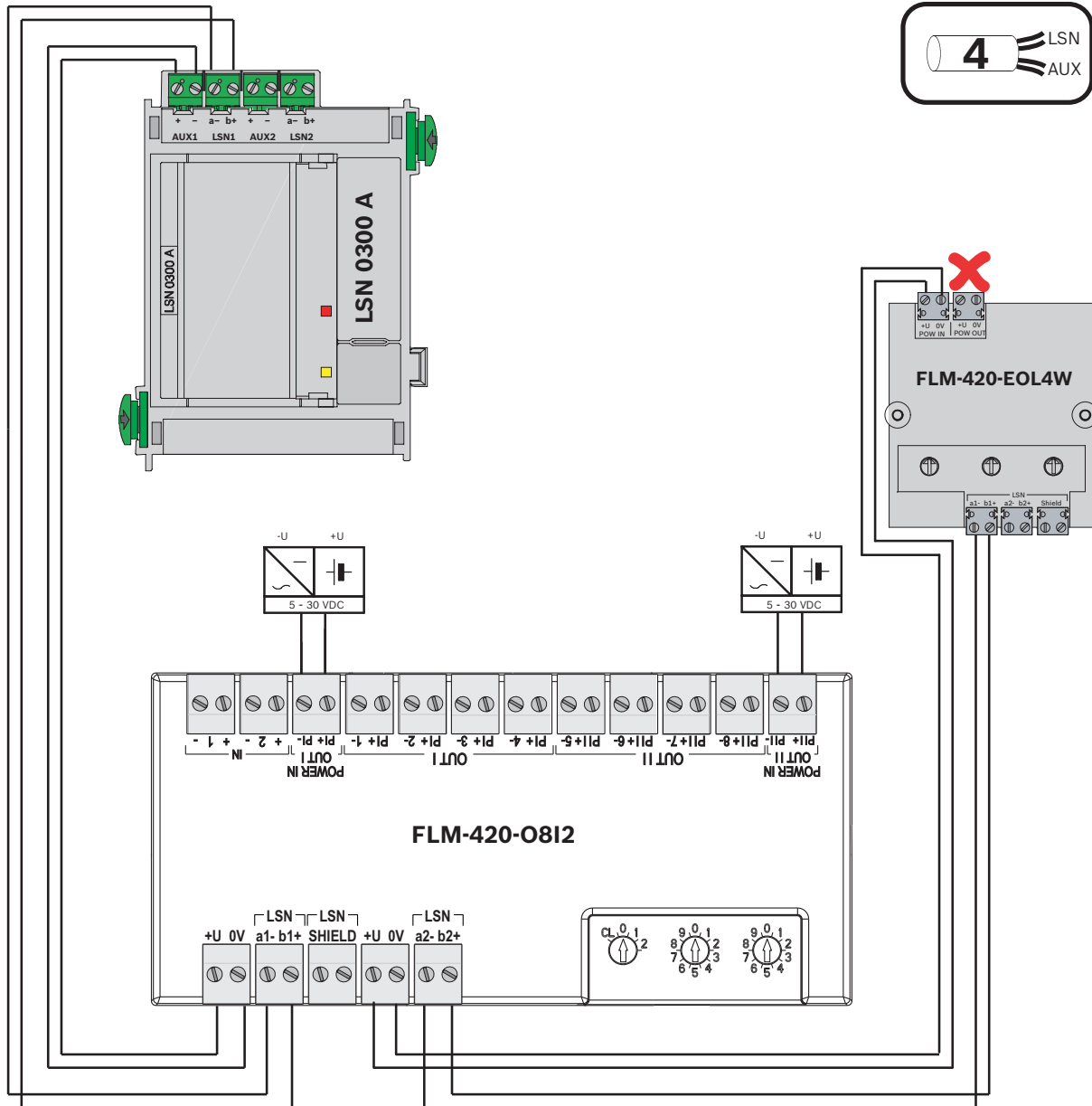


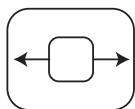


FLM-420-0812-S

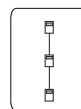


ELS VdS 2489

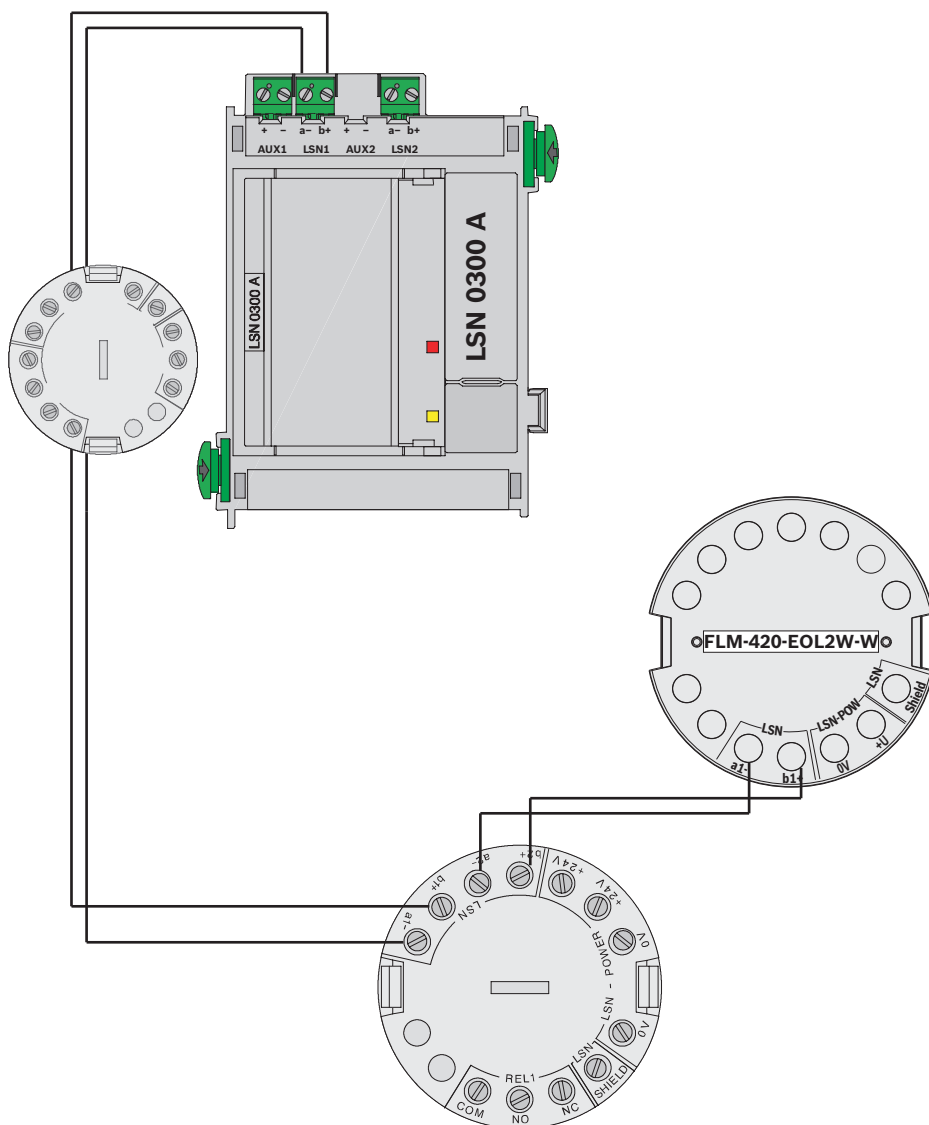


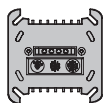
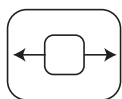


FLM-420-I2-E/-W
FLM-420-RLV1-E



ELS VdS 2489

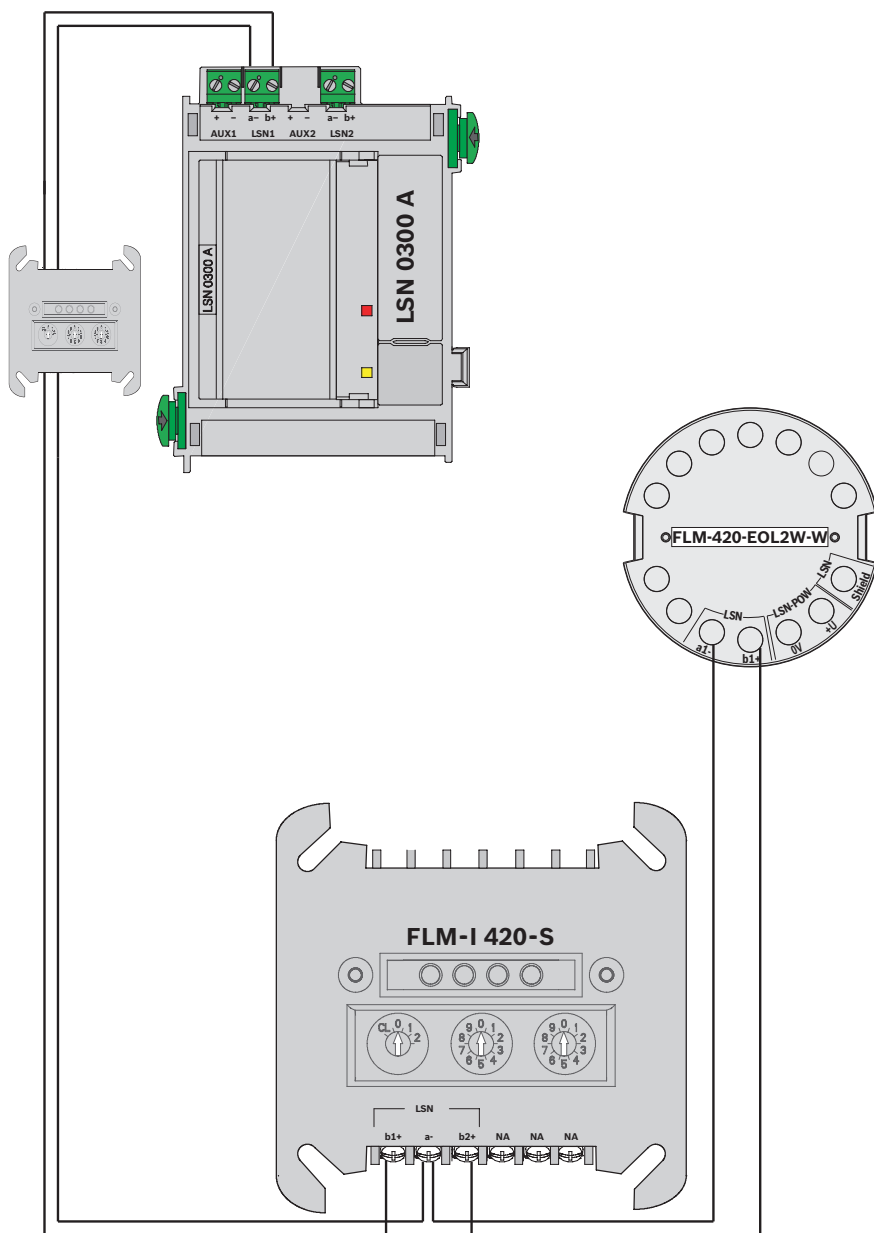


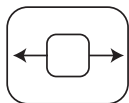


FLM-I 420-S

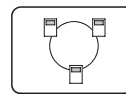


ELS VdS 2489

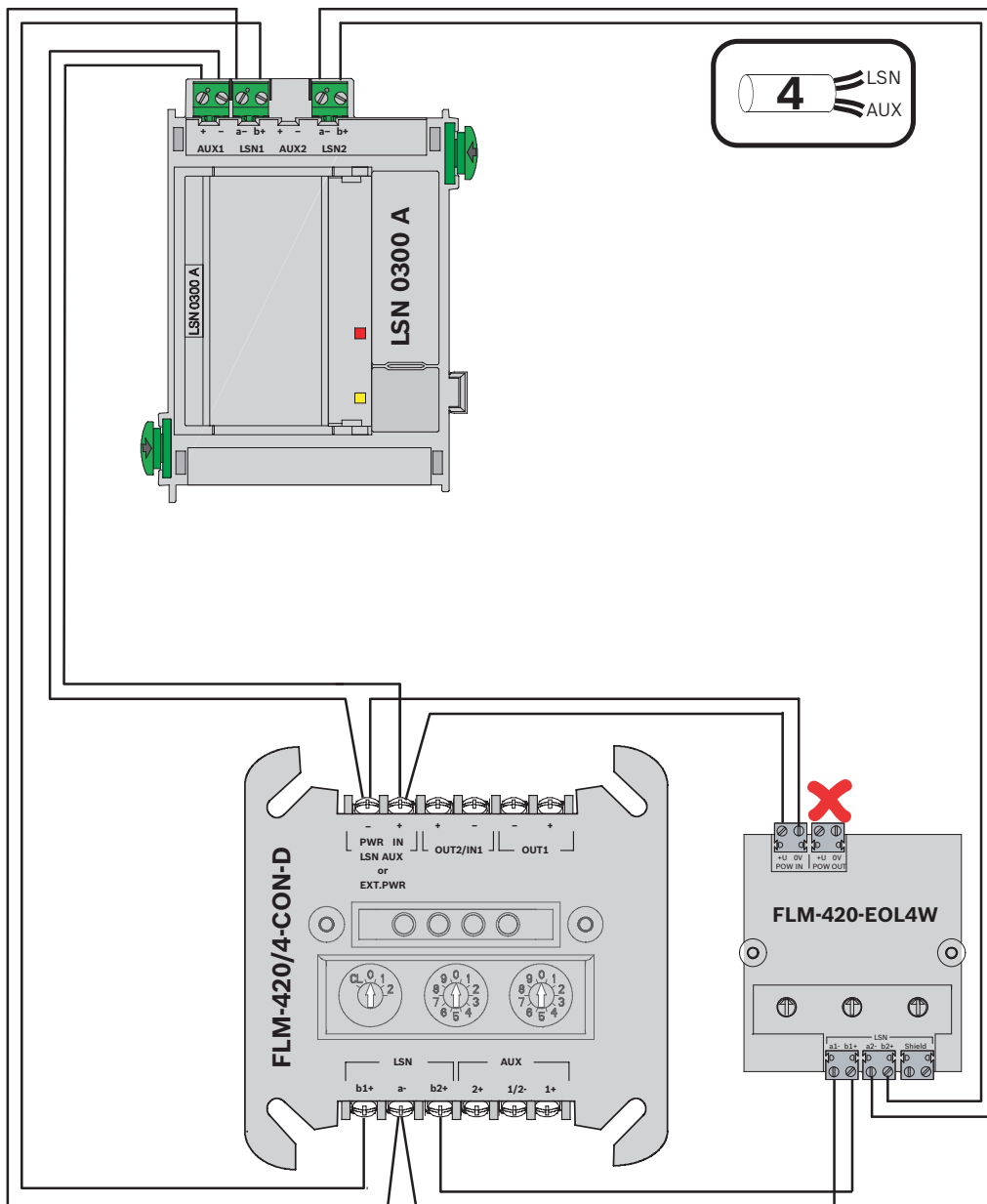


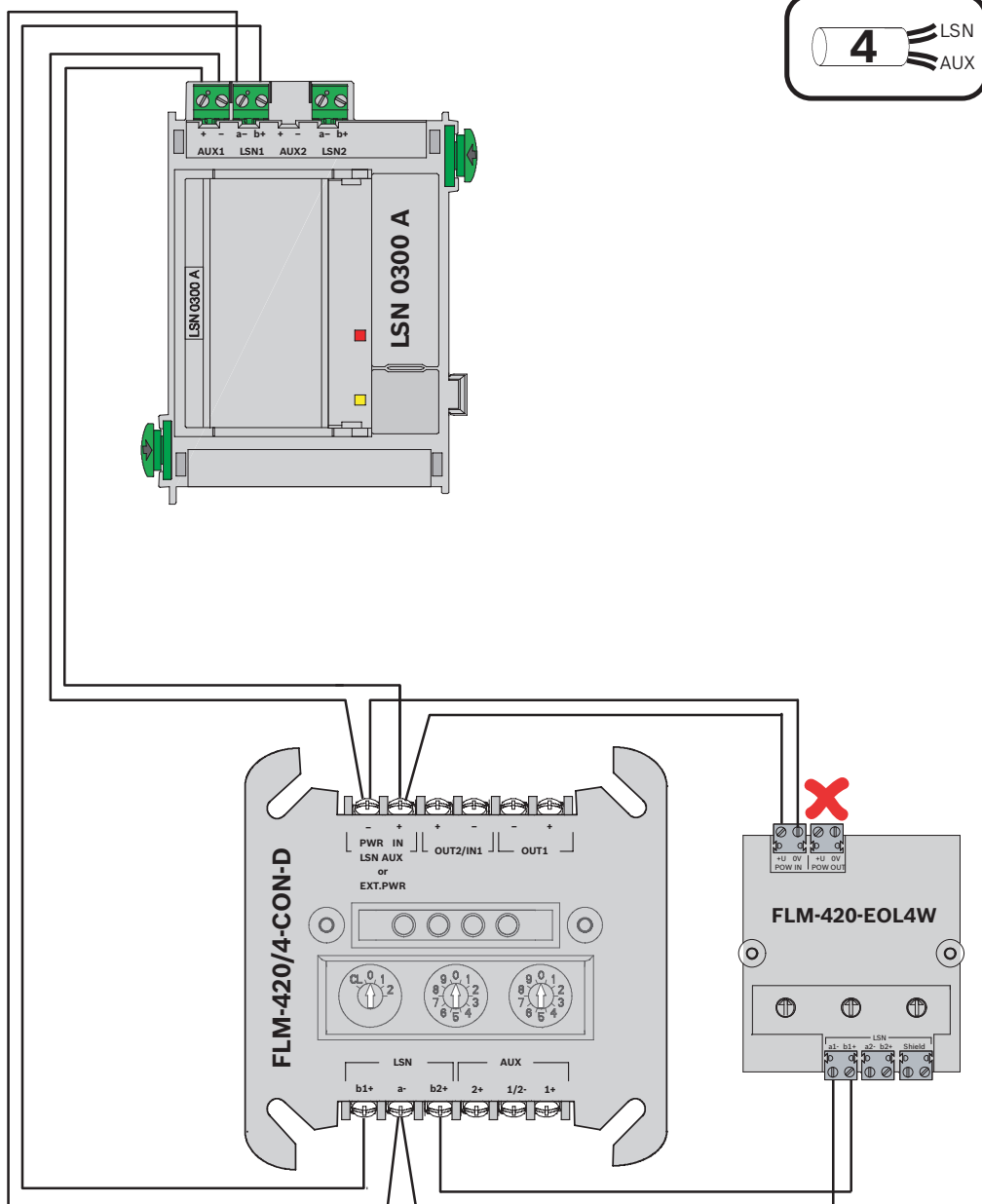
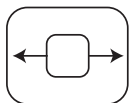


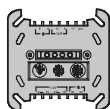
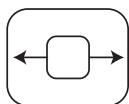
**FLM-420/
4-CON-D**



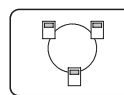
ELS VdS 2489



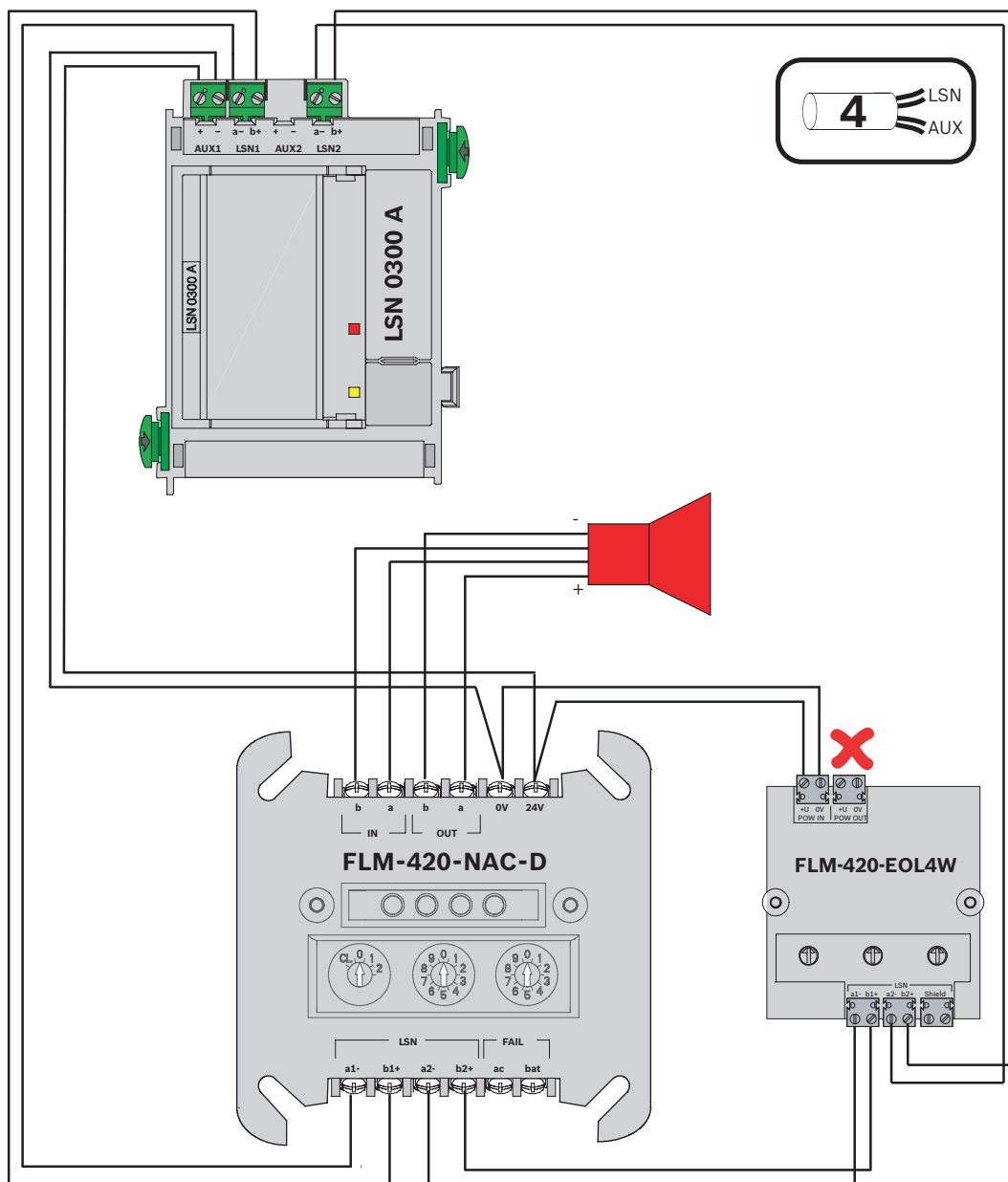


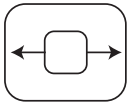


FLM-420-NAC-D/S

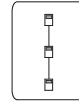


**ELS VdS 2489
EN 54-2**

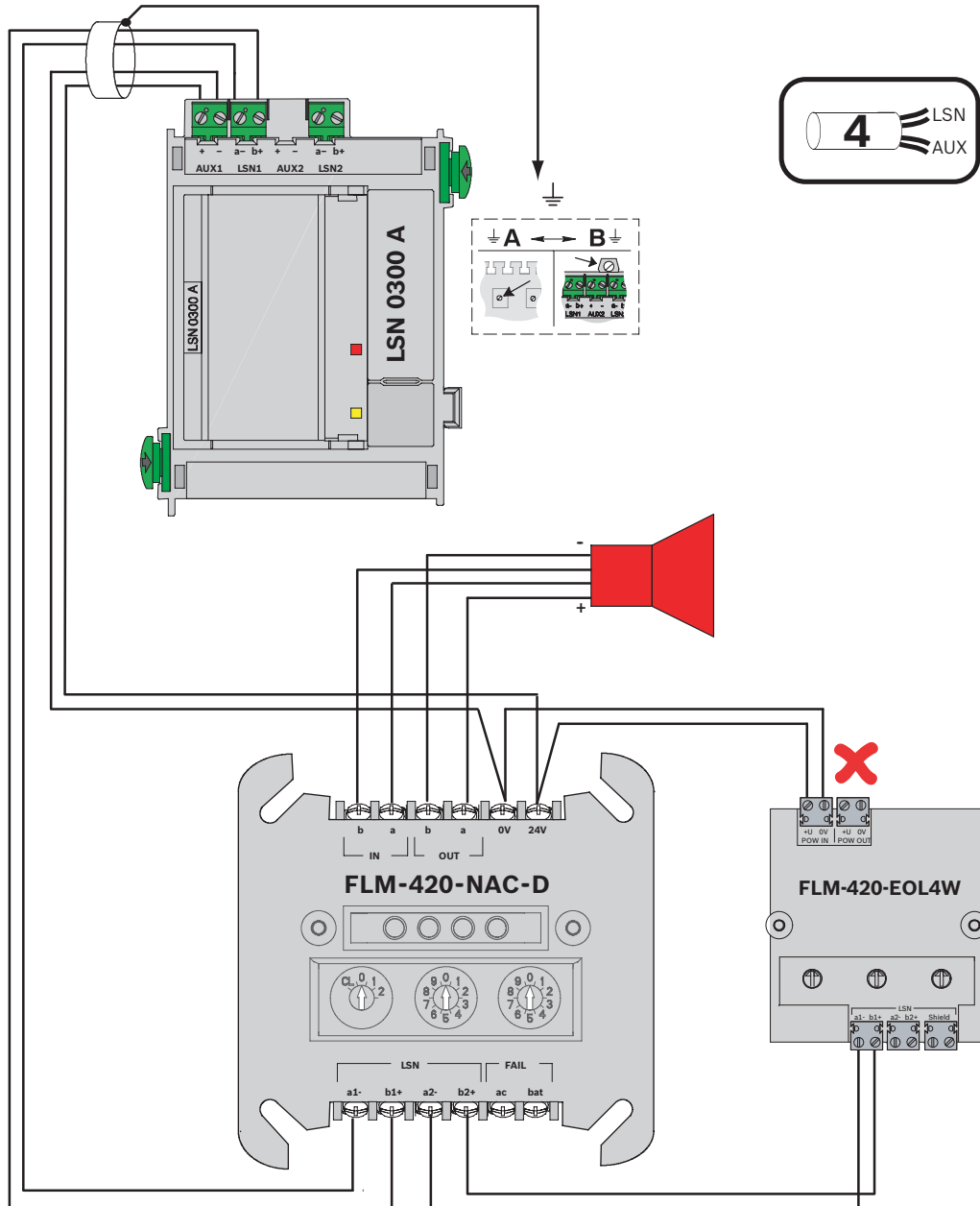


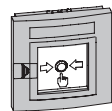
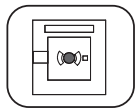


FLM-420-NAC-D/S

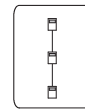


ELS Vds 2489

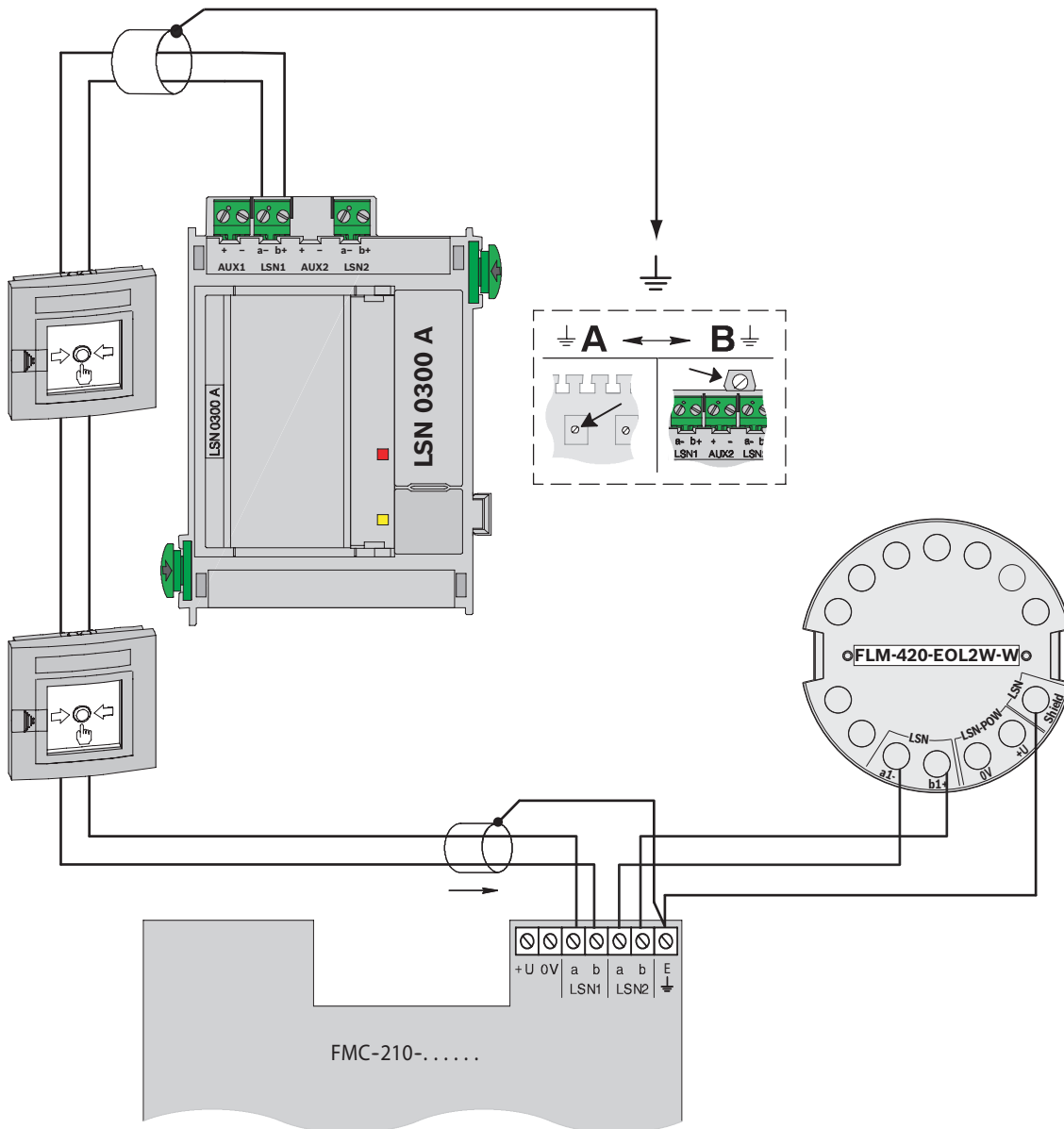


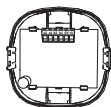


FMC-210...

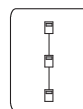


ELS VdS 2489

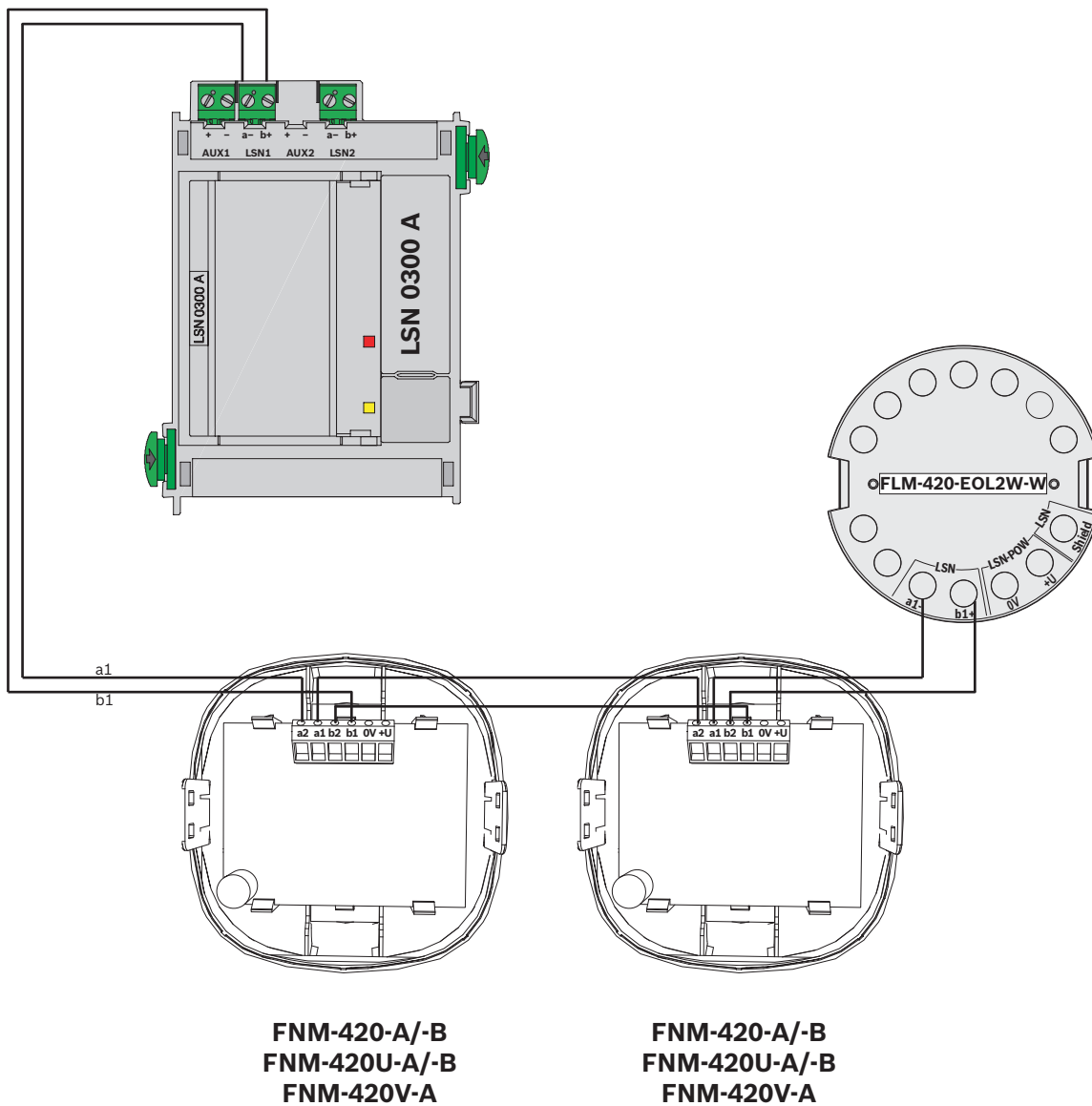




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS VdS 2489

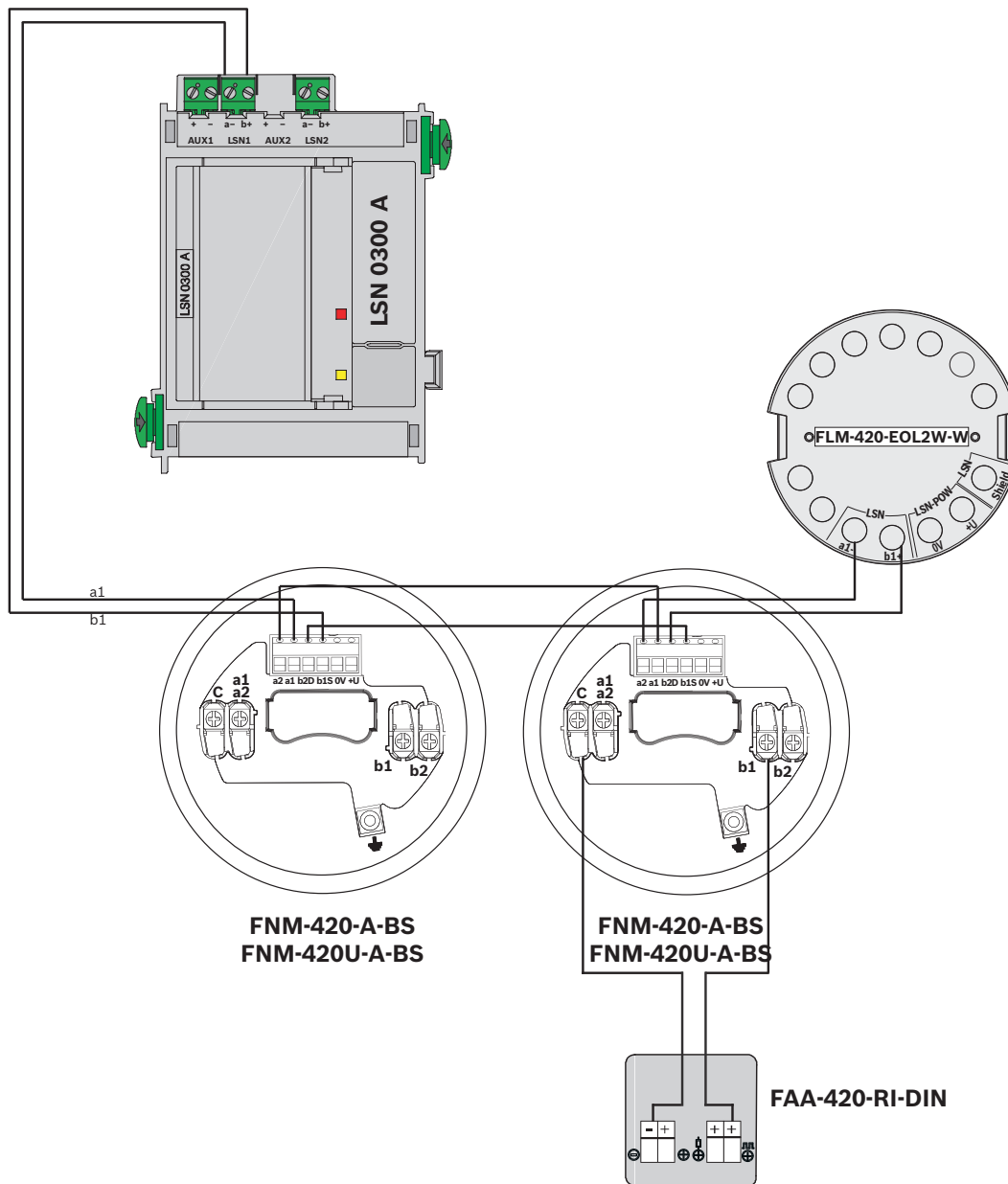




FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

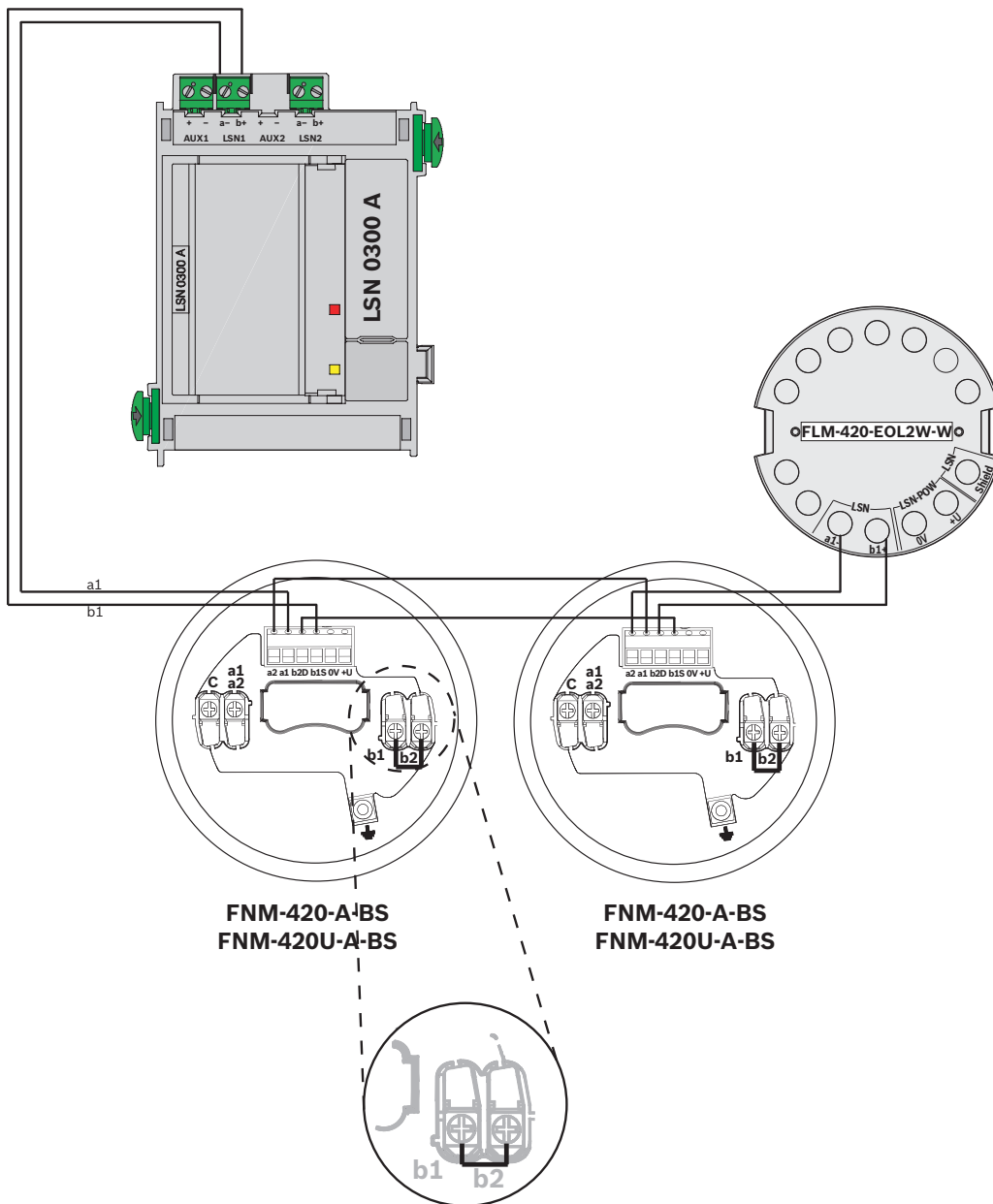




FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

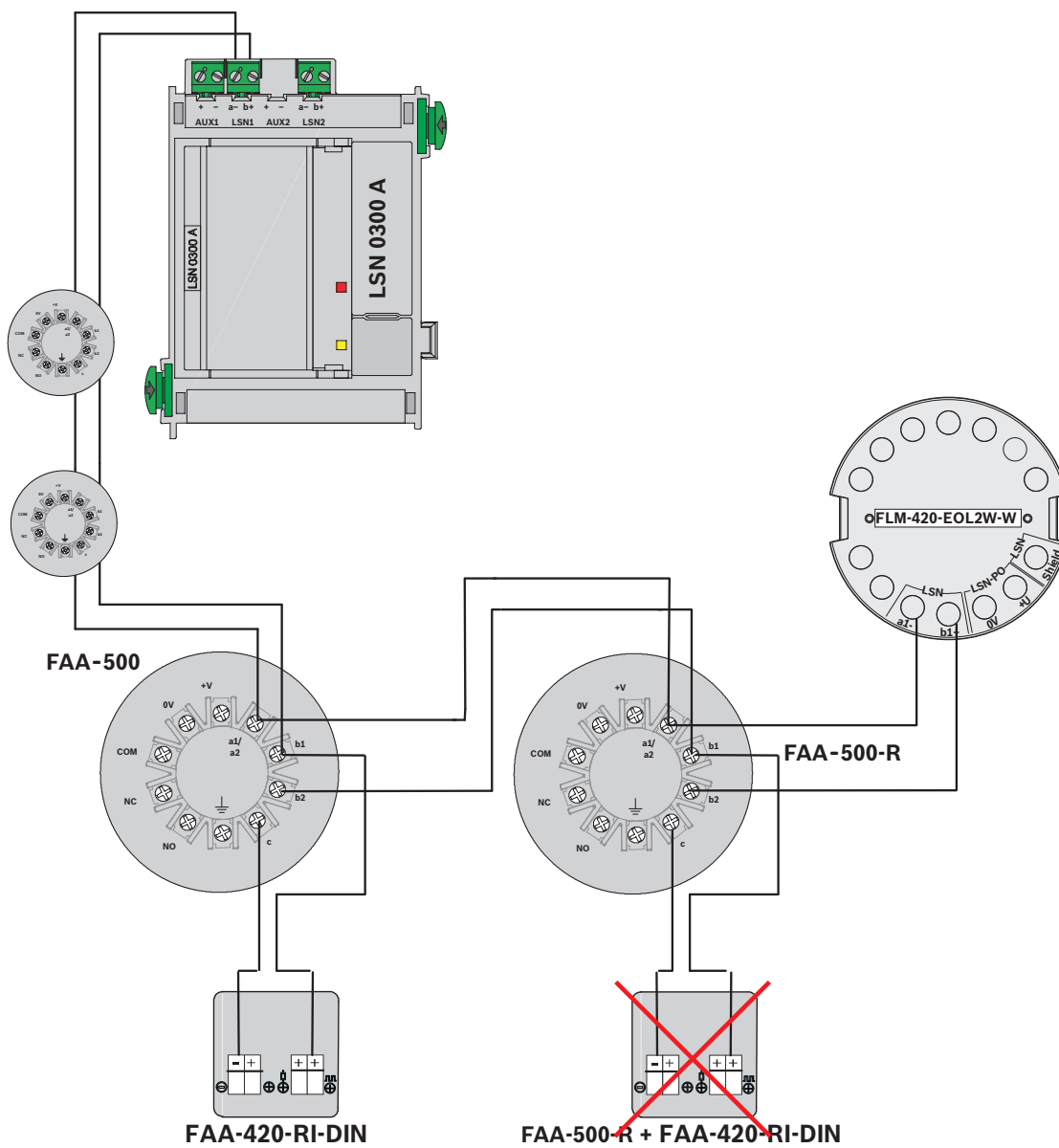




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P



ELS VdS 2489

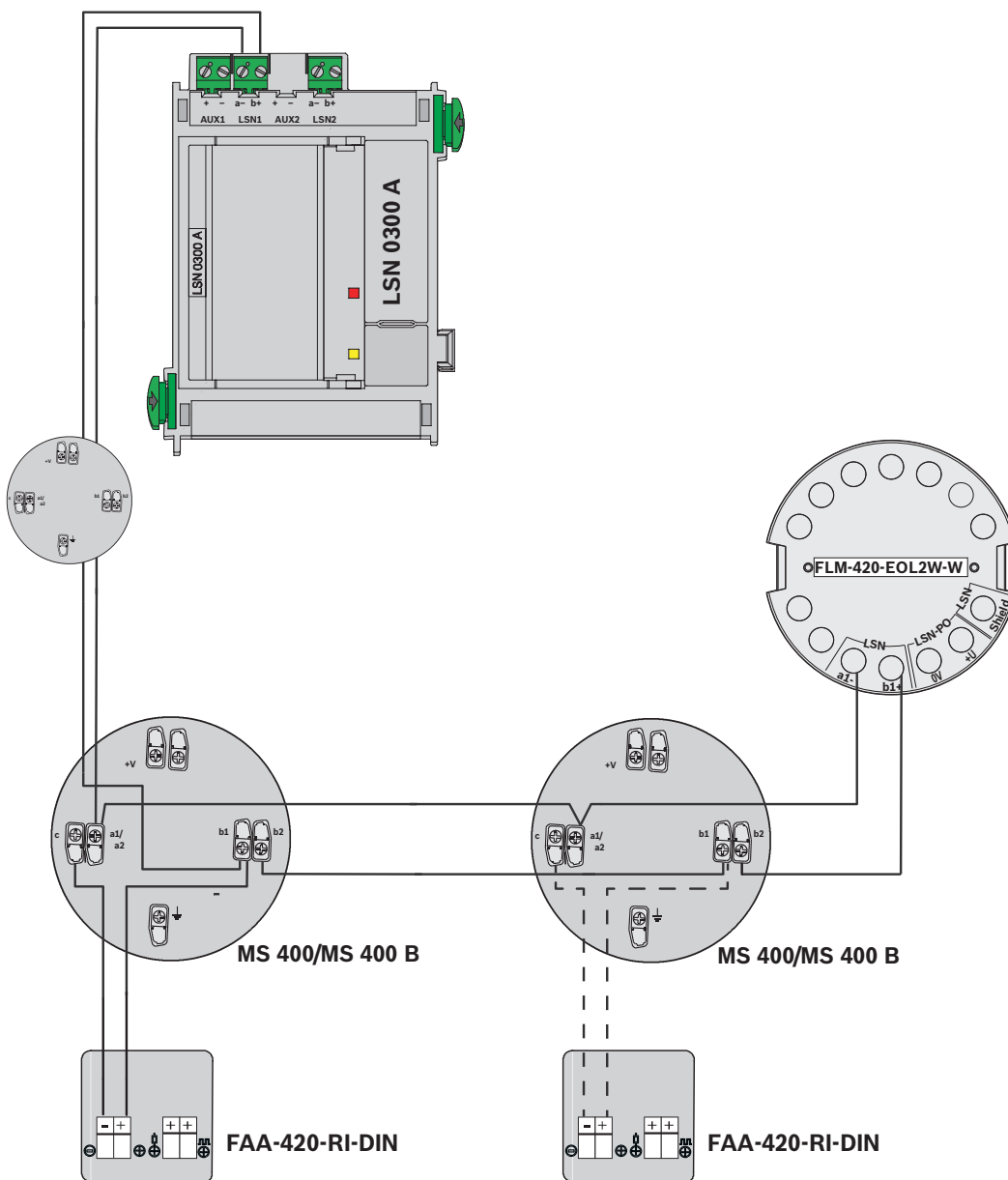


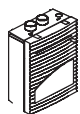


FAP-425-O/O-R/OT/OT-R/T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/T320-R470/T320-FSA
 FCP-O320/O320-R470
 FCP-OC320/OC320-R470
 FCP-OT320/OT320-R470

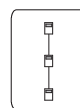


ELS VdS 2489

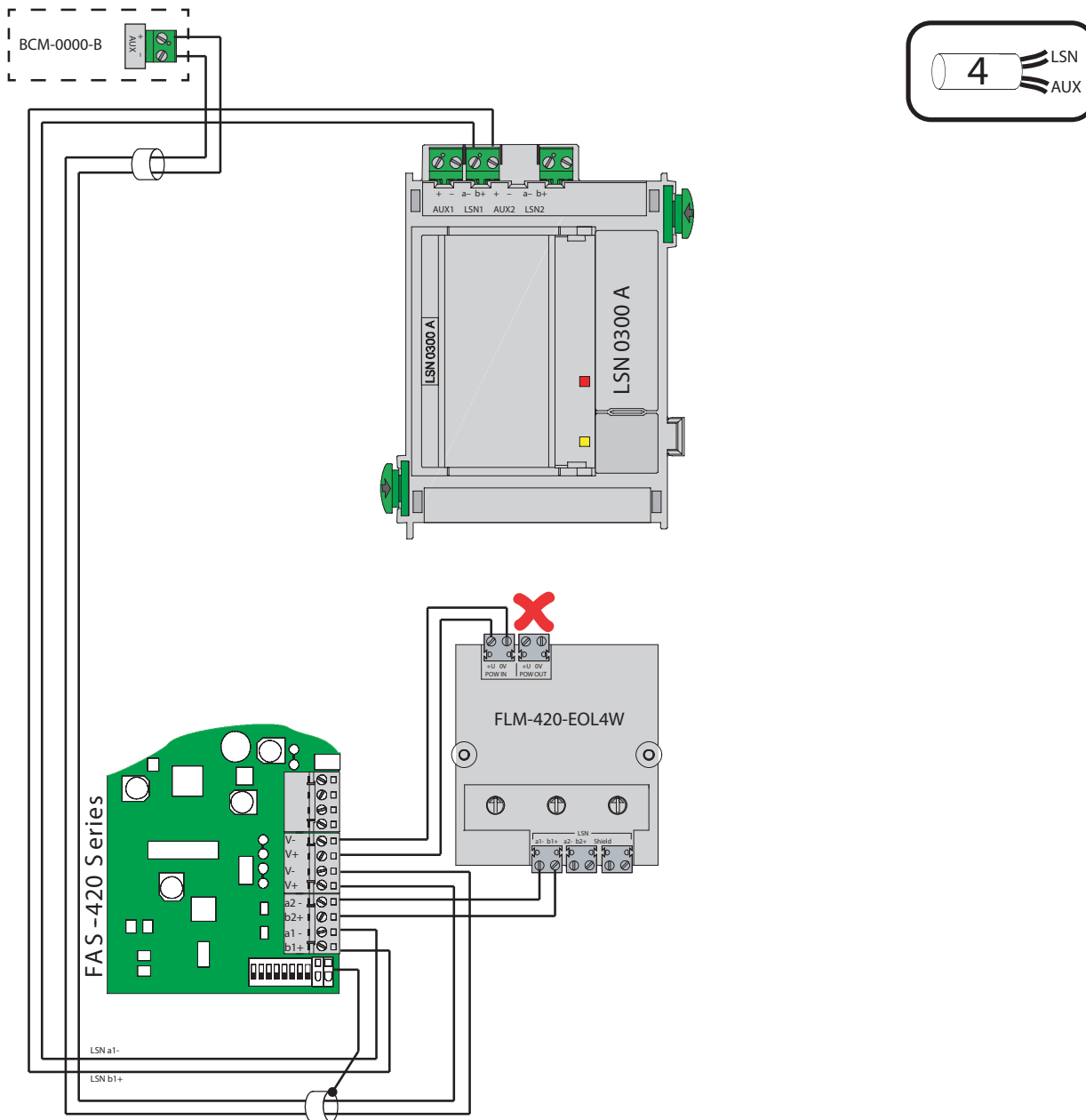


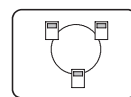
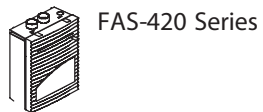


FAS-420 Series

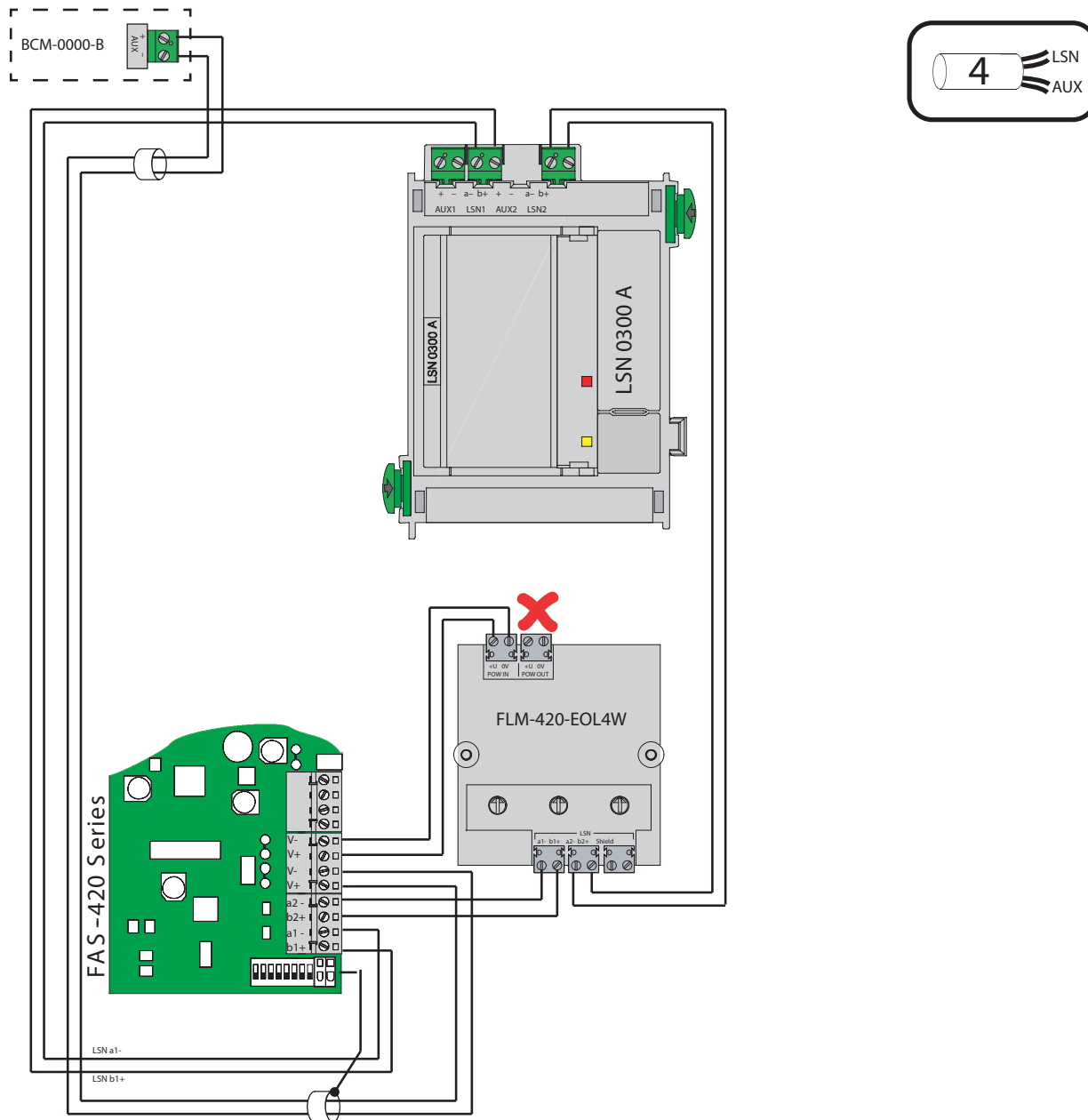


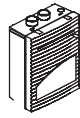
ELS VdS 2489



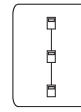


ELS VdS 2489

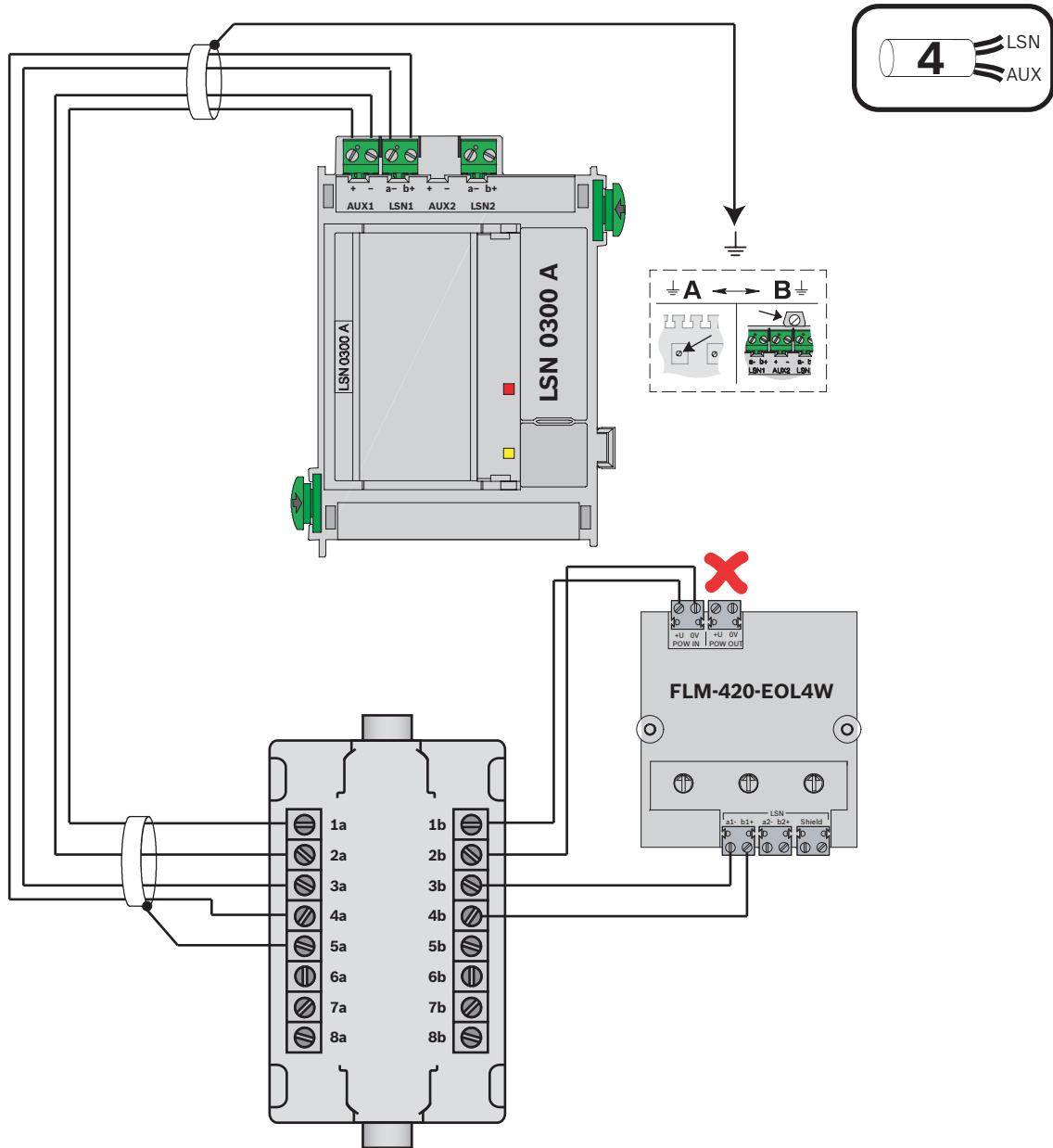


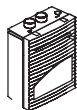


FAS-420-TM Series

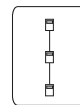


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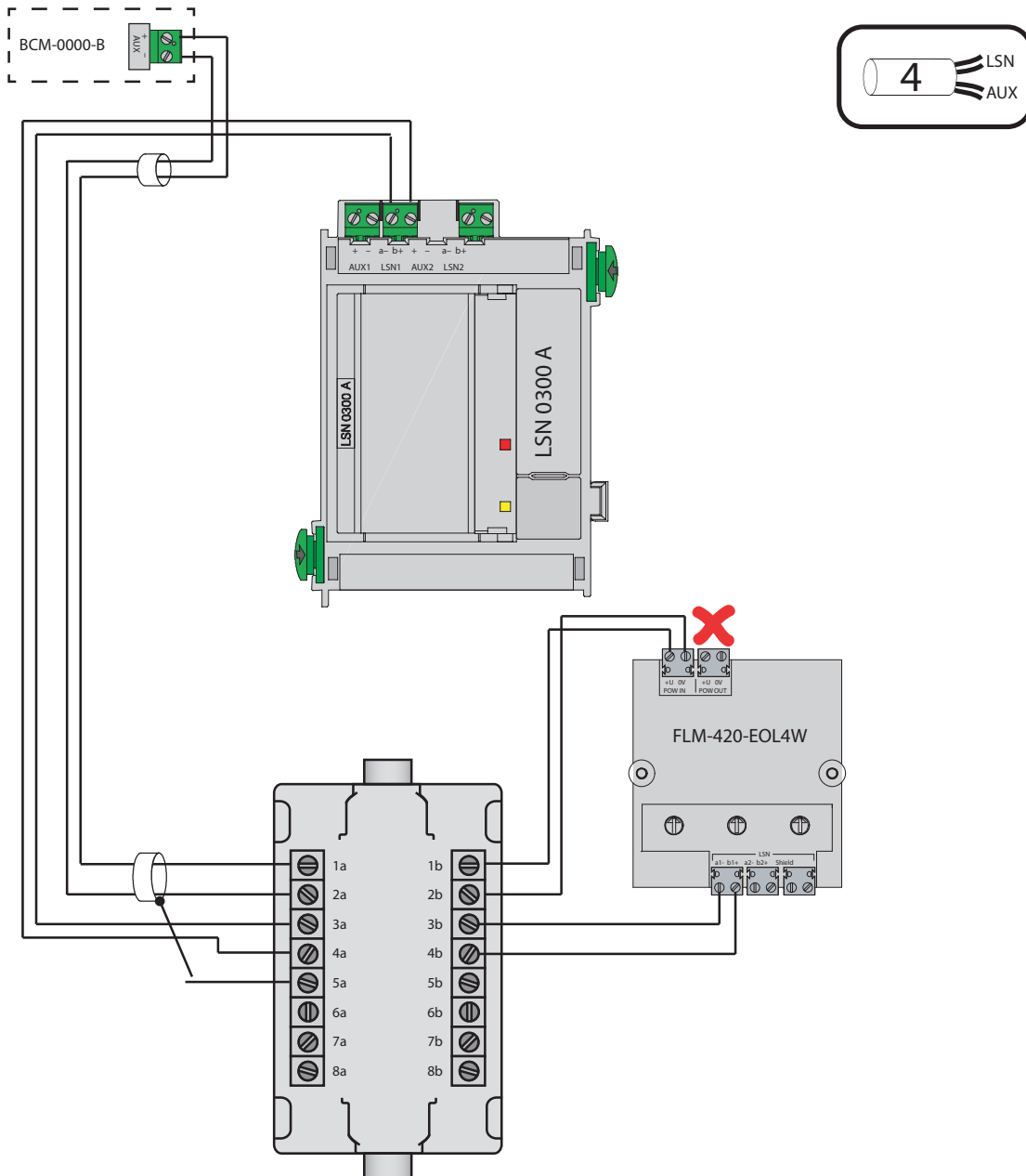


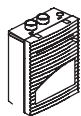


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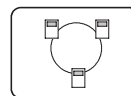


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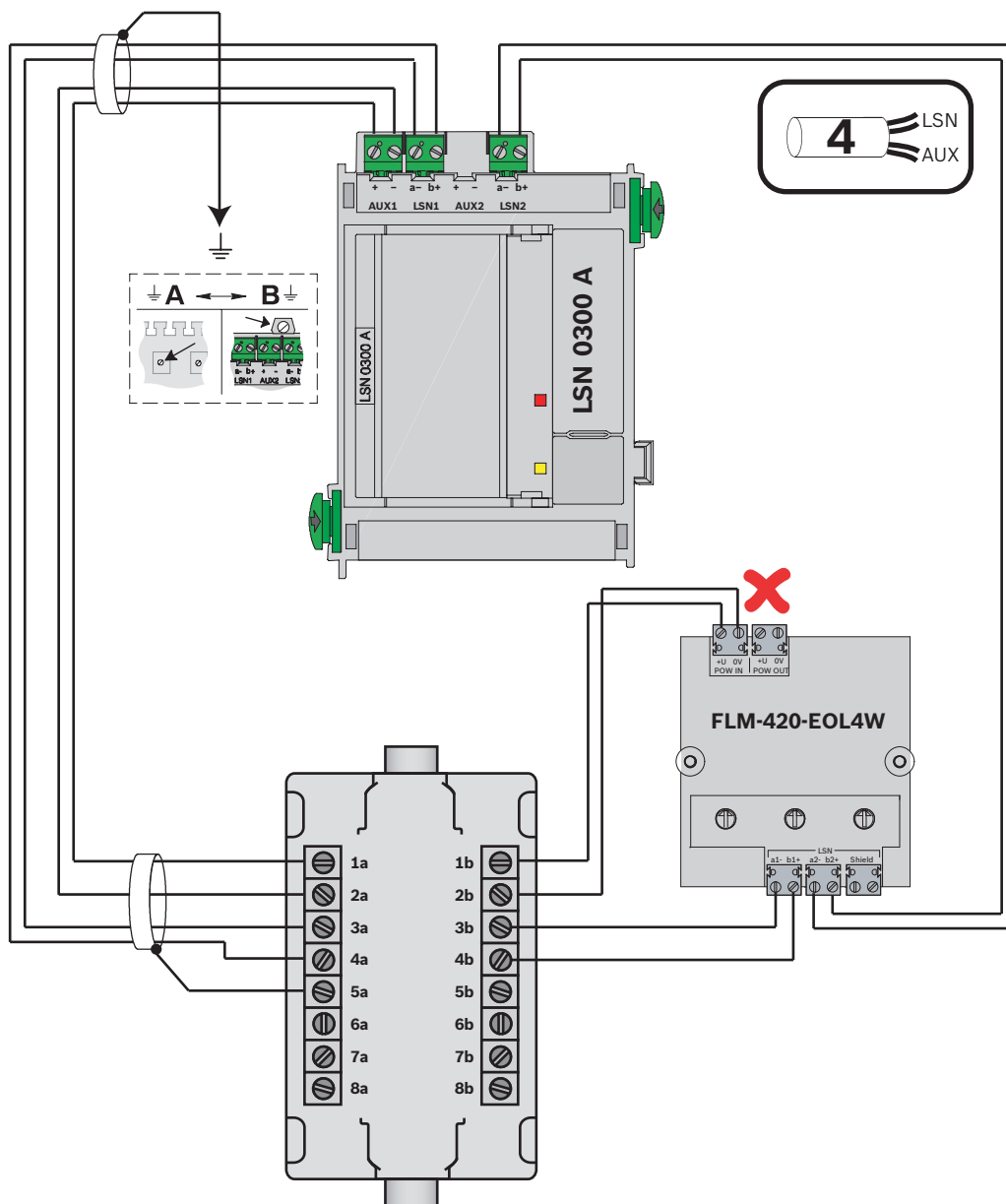


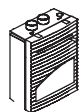


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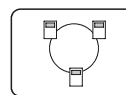


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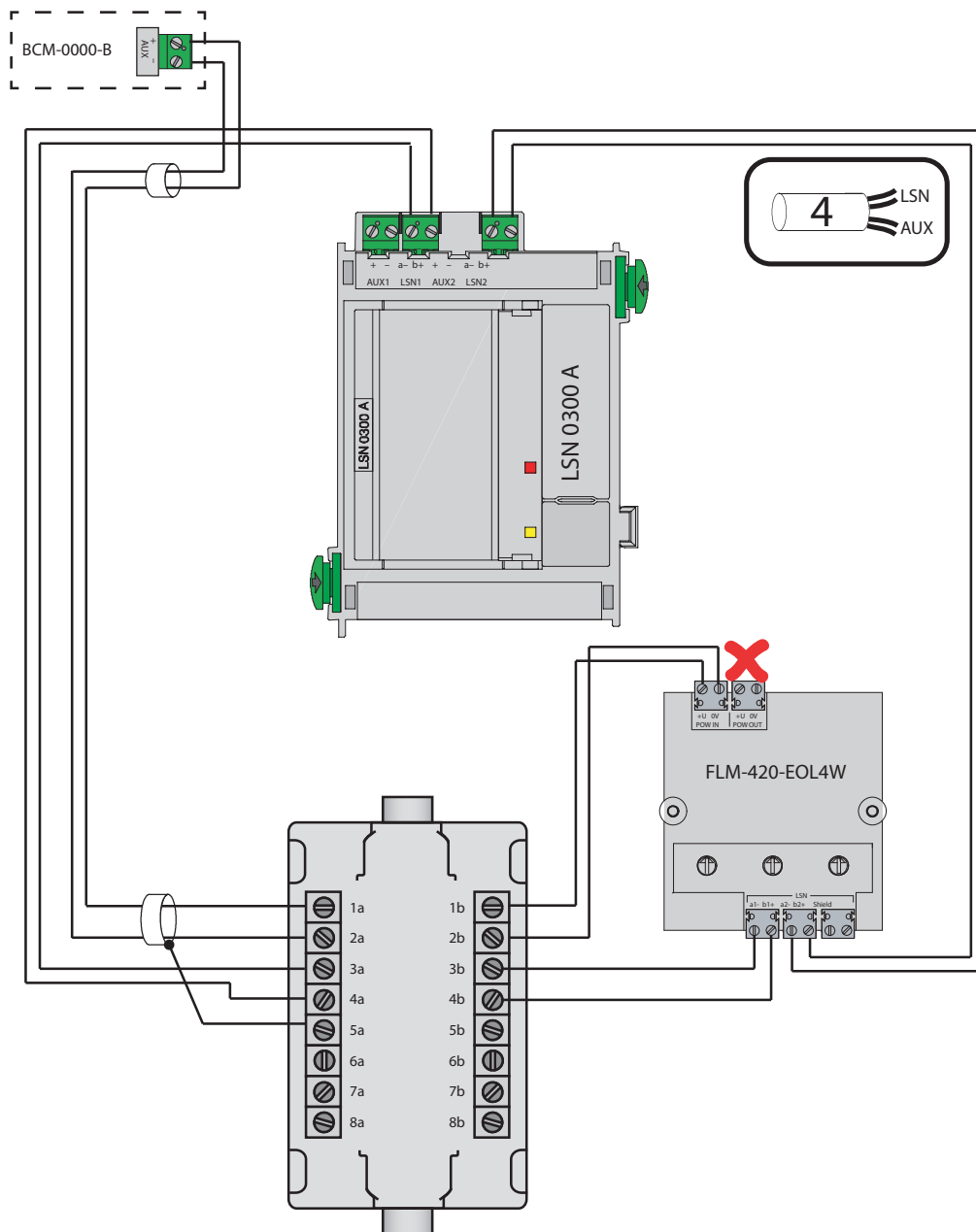




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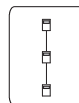


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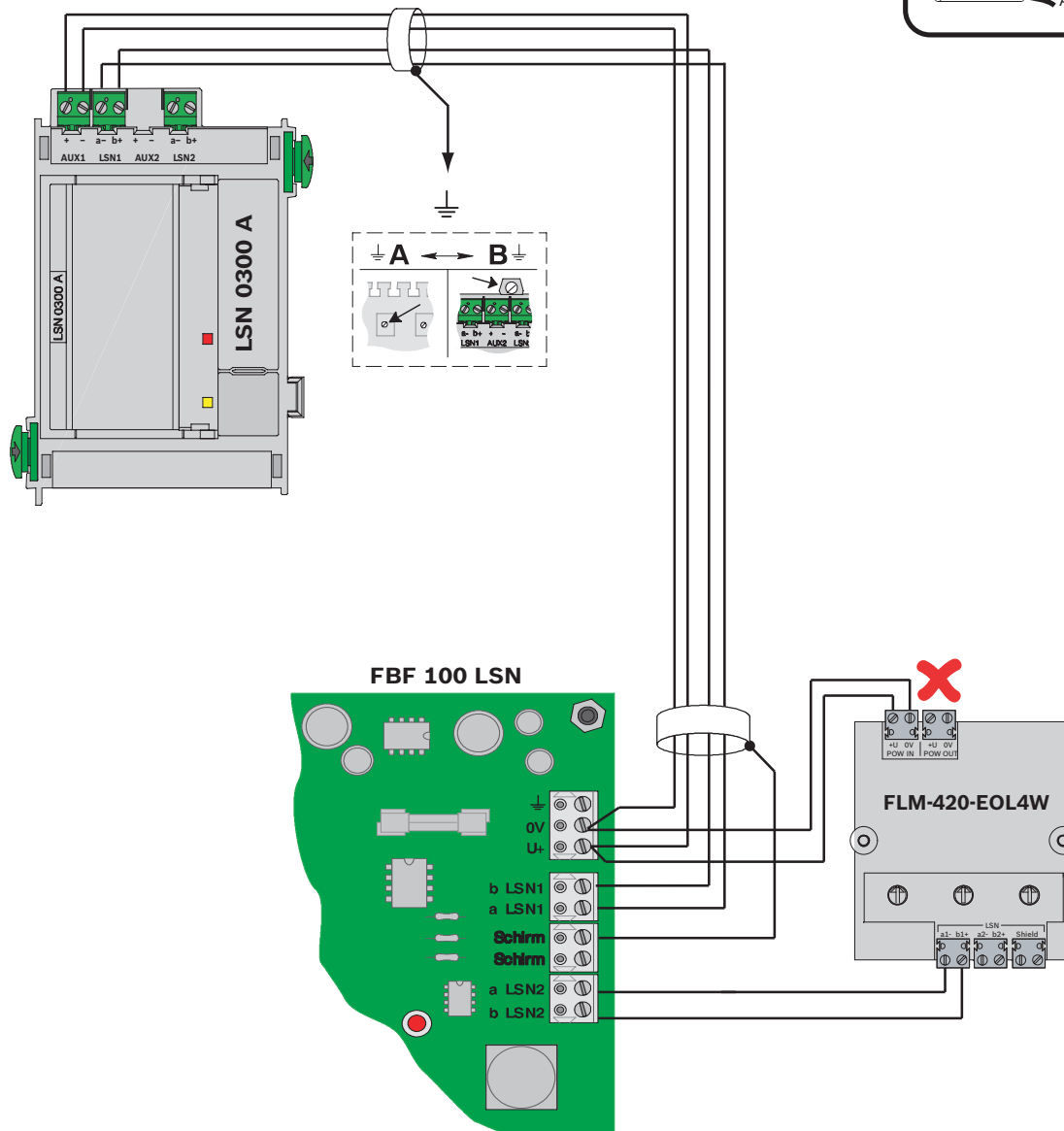
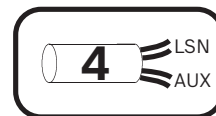




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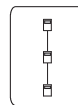


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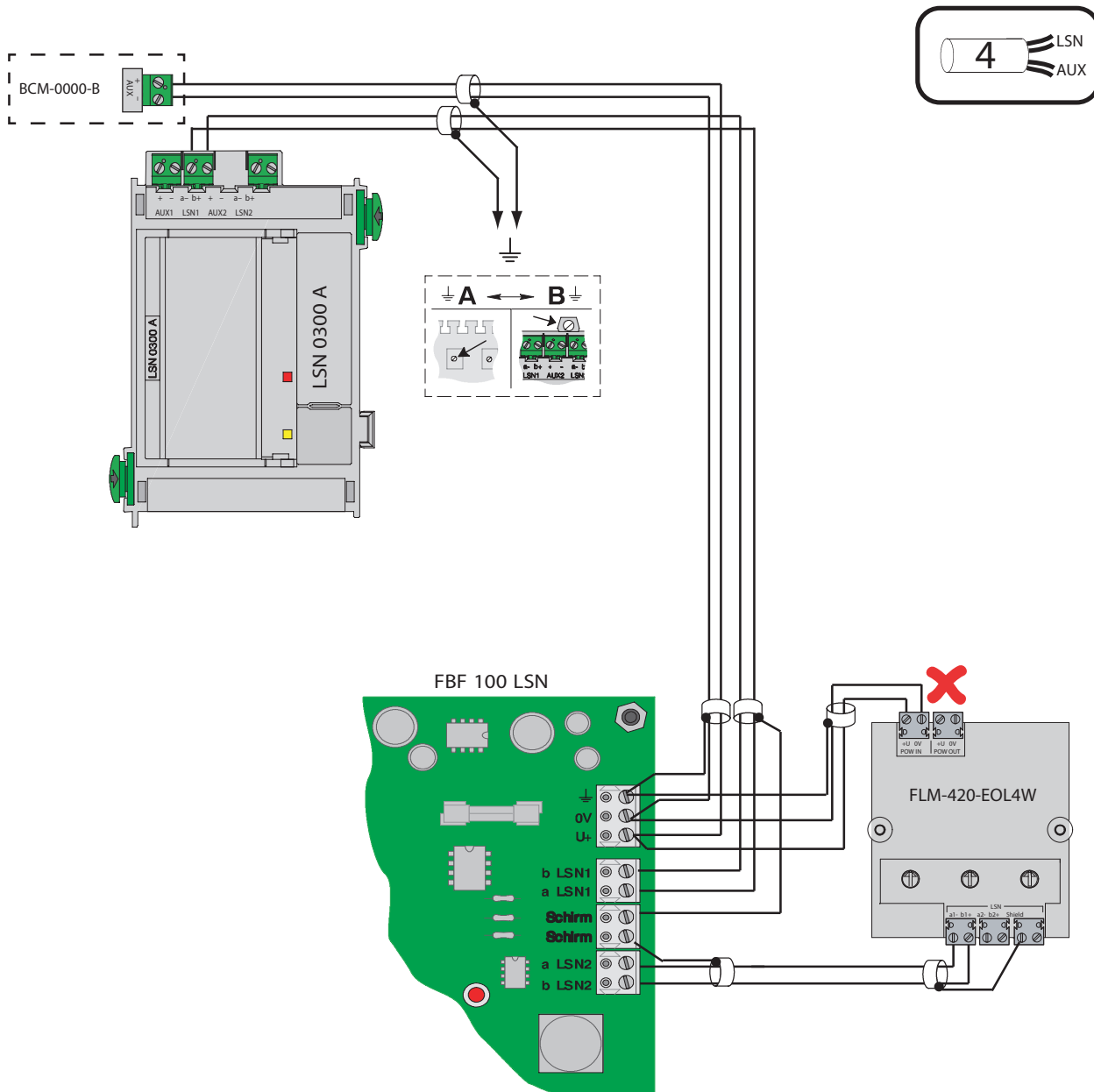


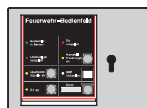


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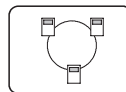


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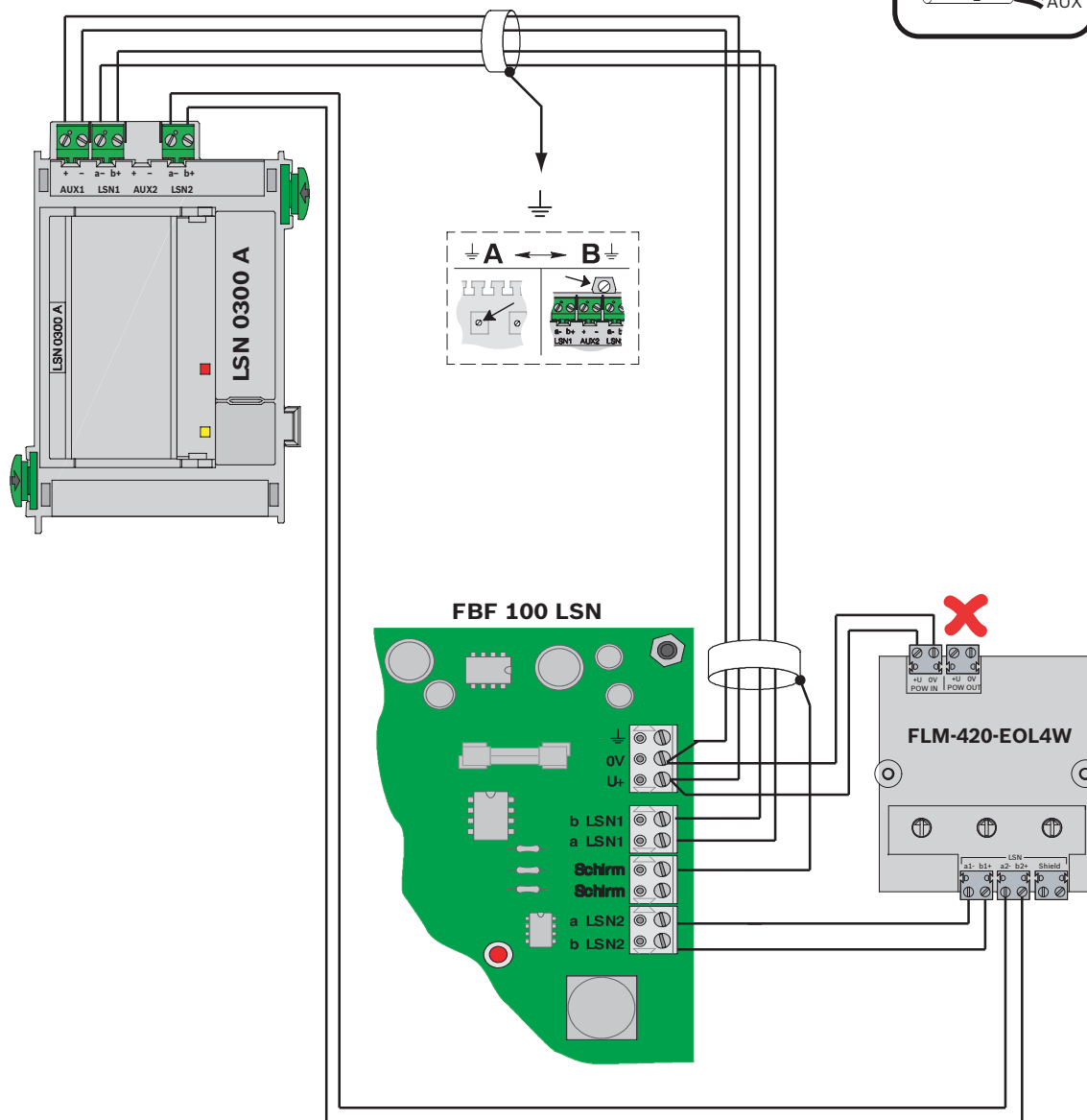
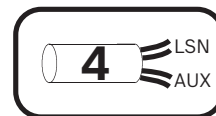




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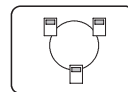


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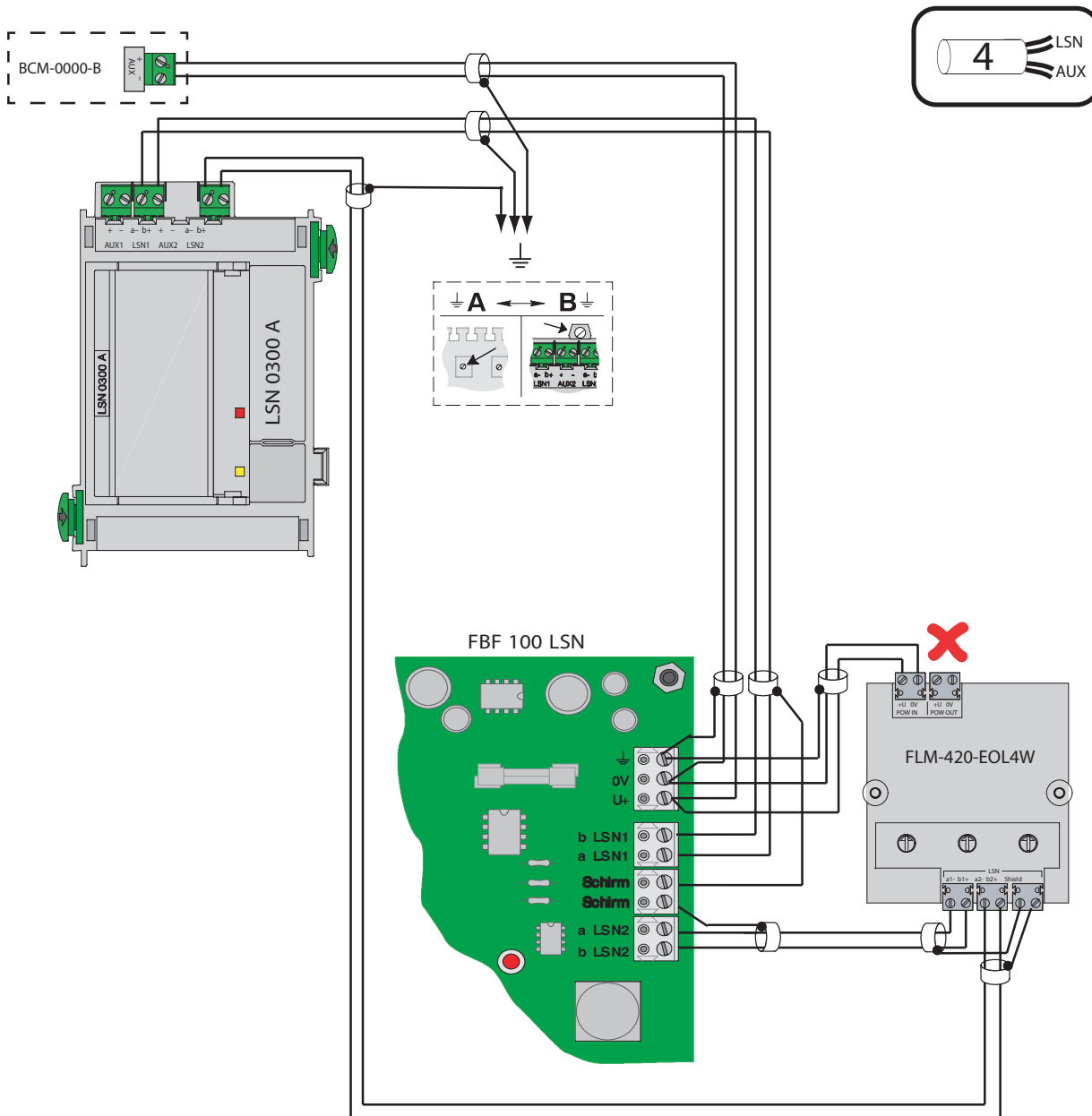


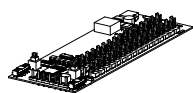


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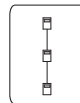


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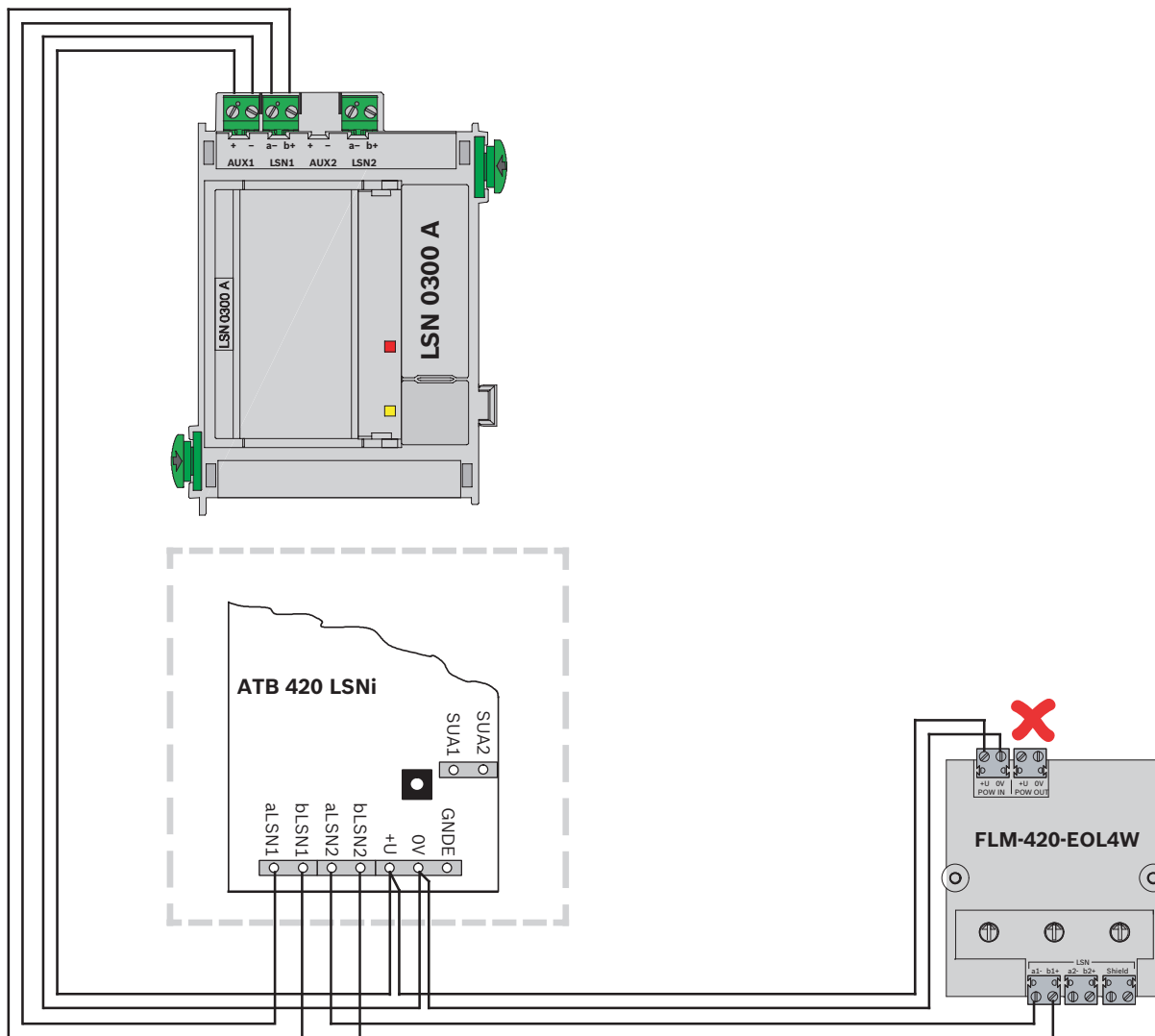
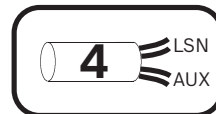


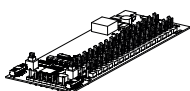


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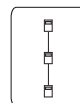


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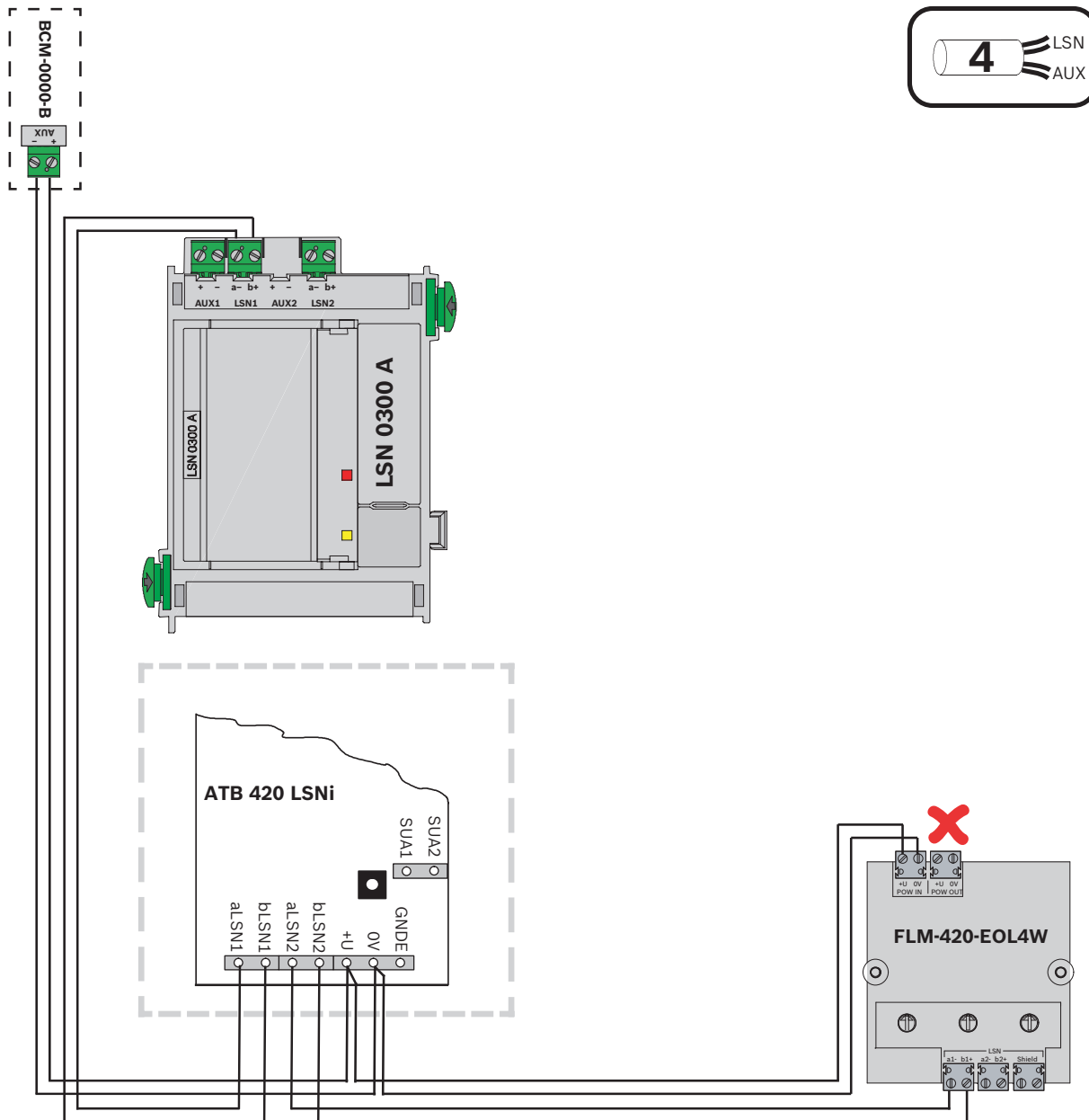


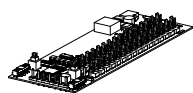


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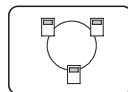


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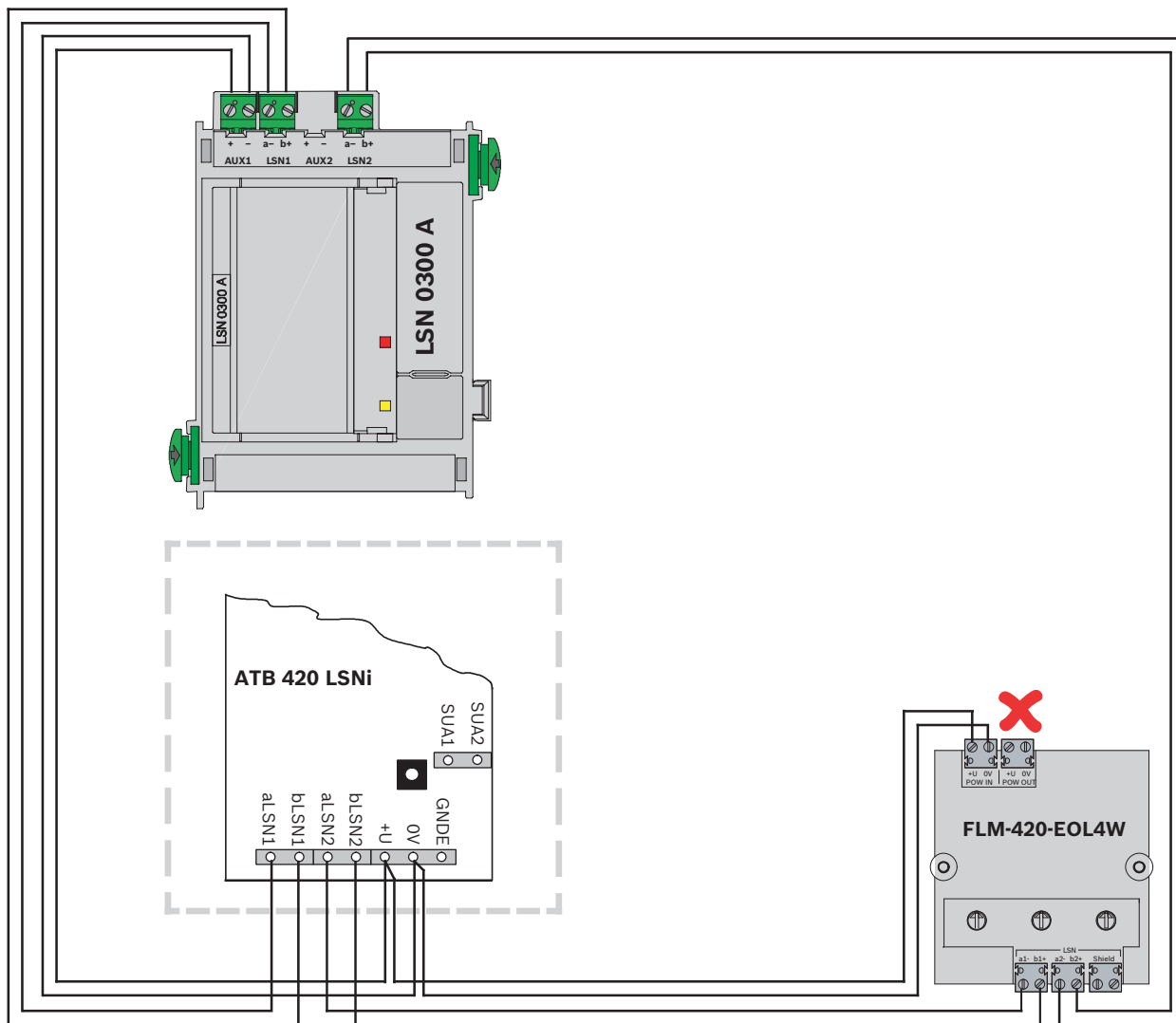


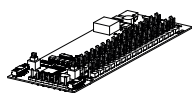


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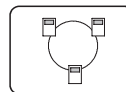


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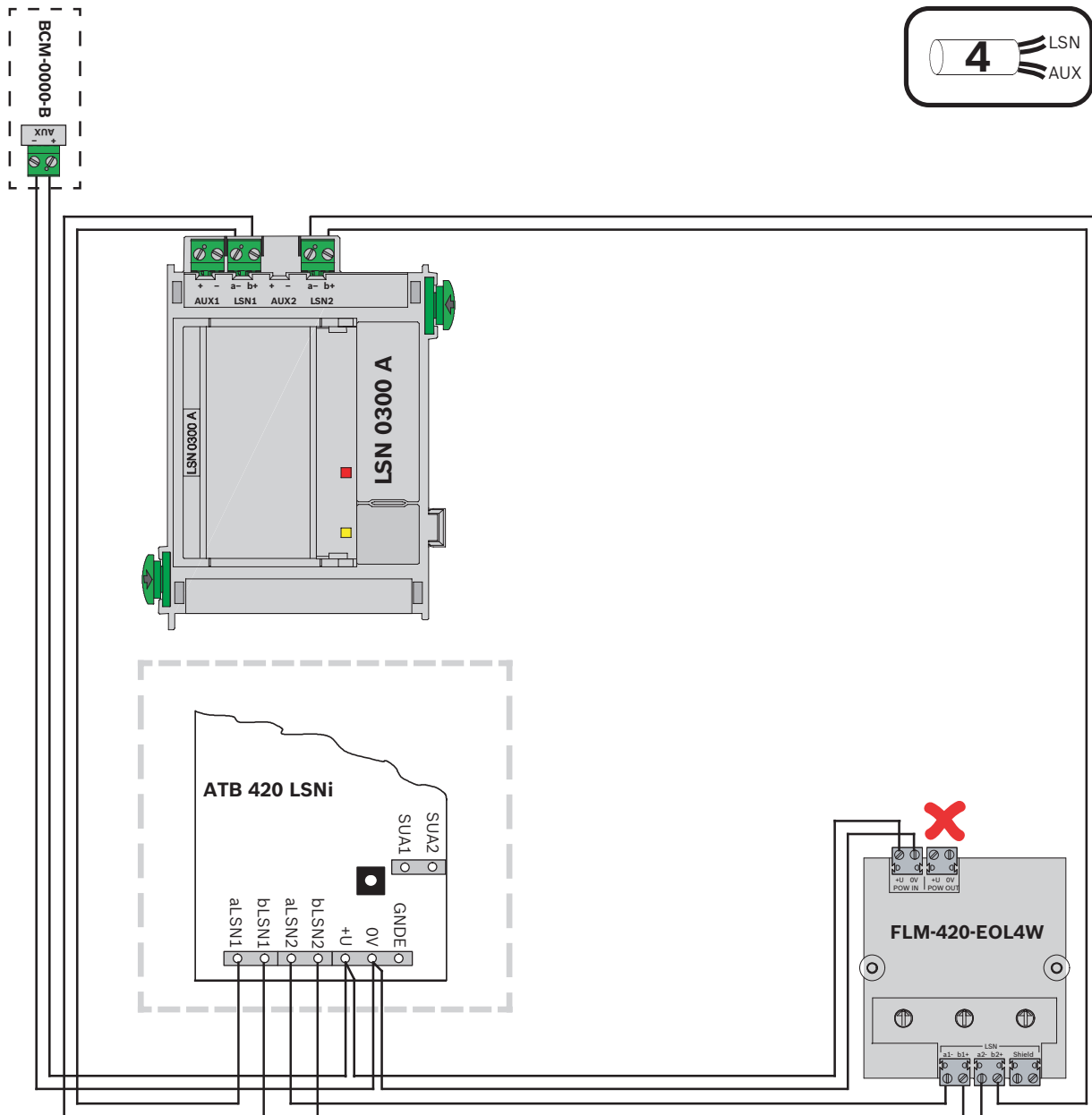




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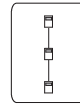


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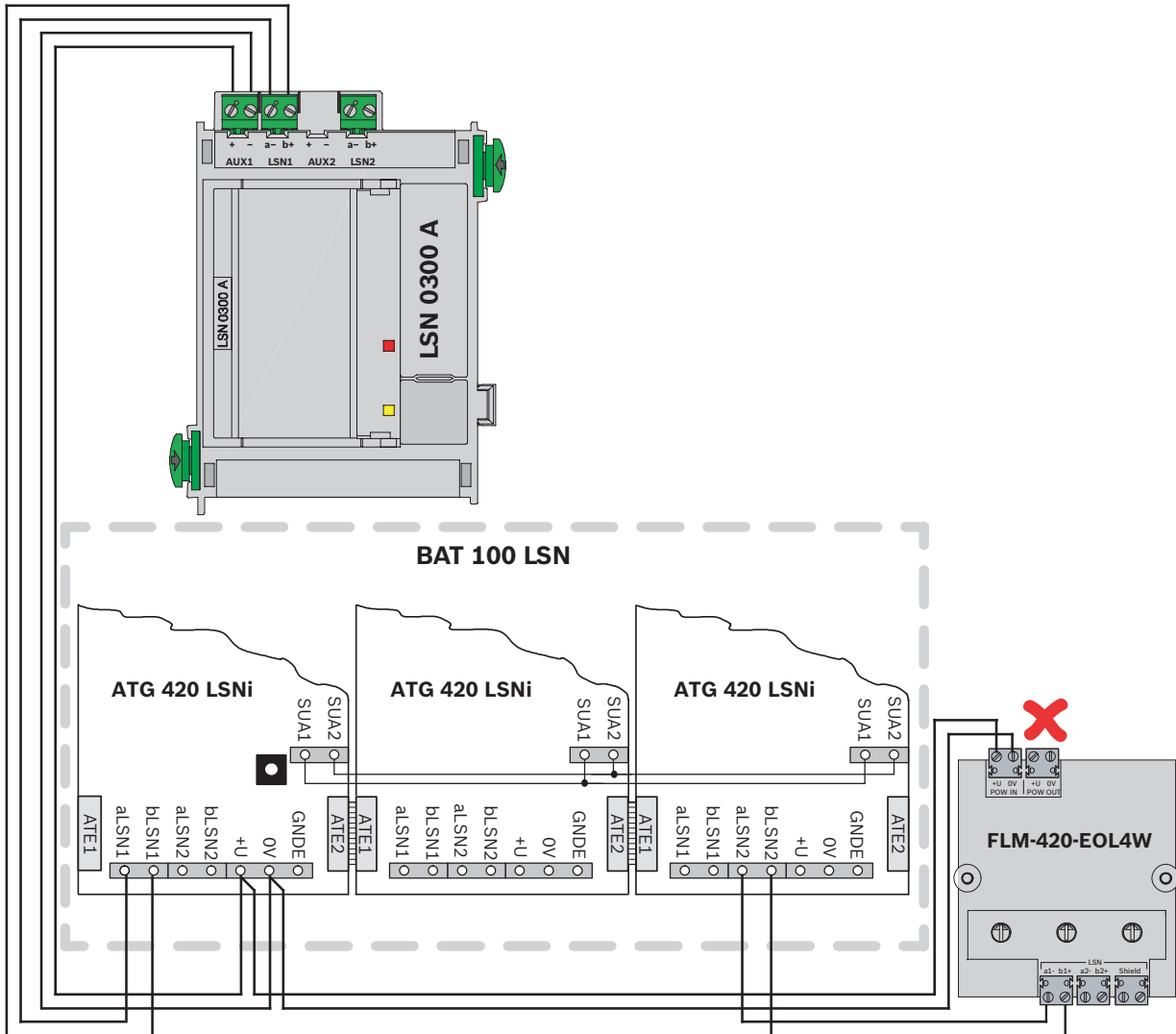




BAT 100 LSN
ATG 420 LSNi

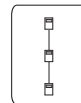


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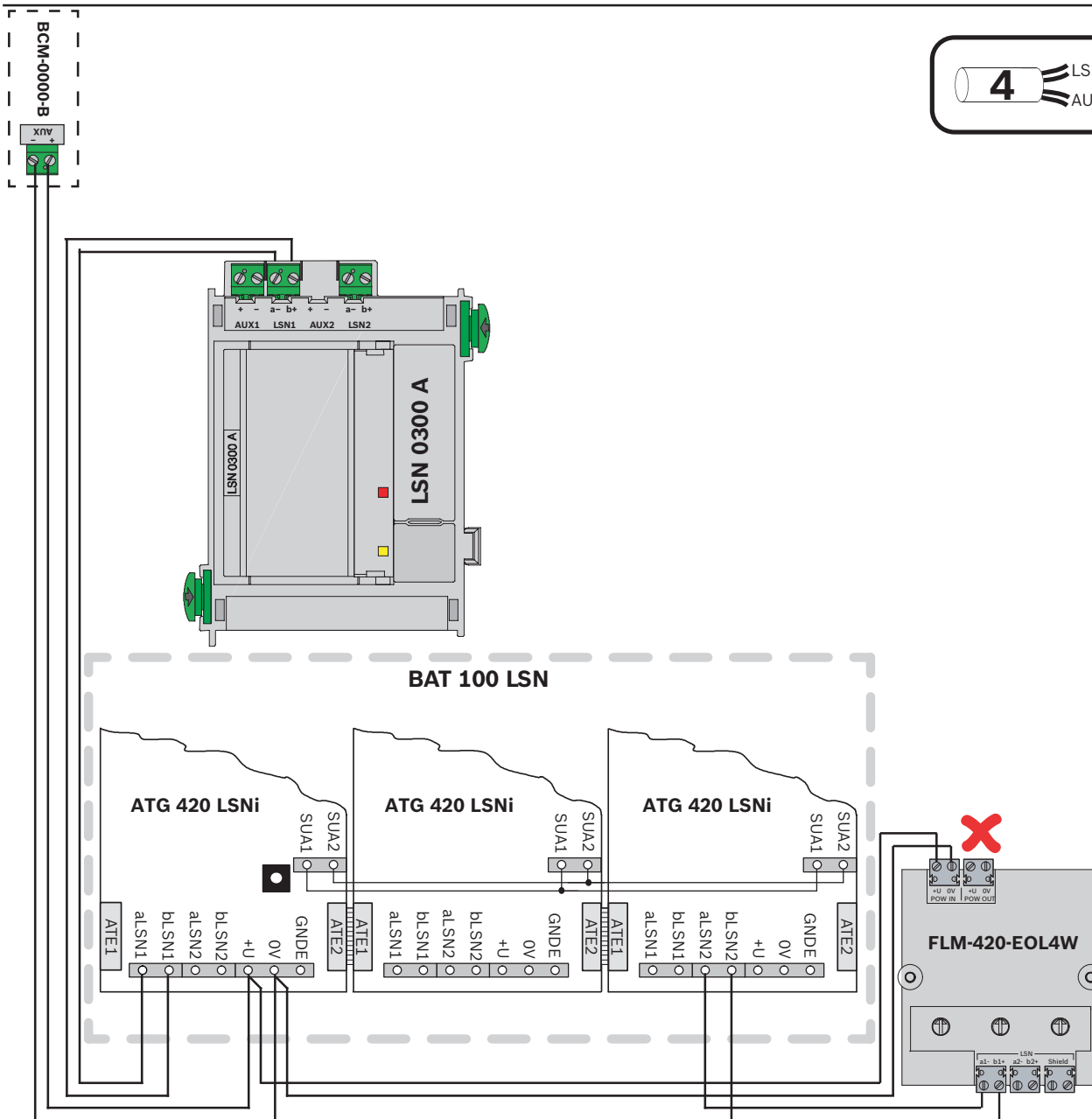
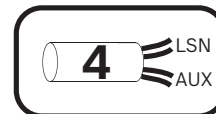




**BAT 100 LSN
ATG 420 LSNi**

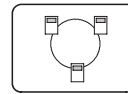


ELS Vds 2489

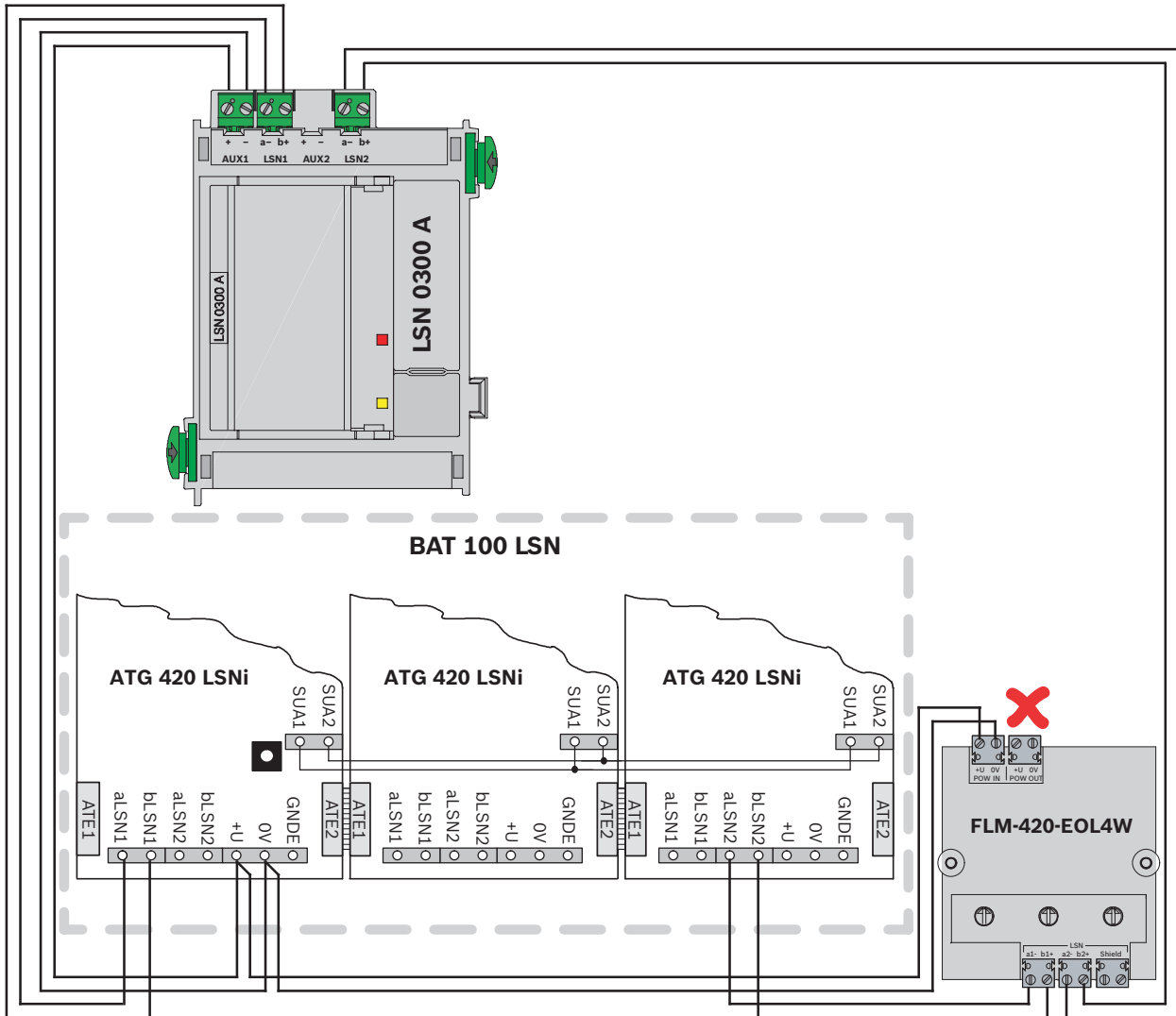


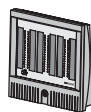


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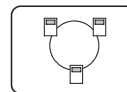


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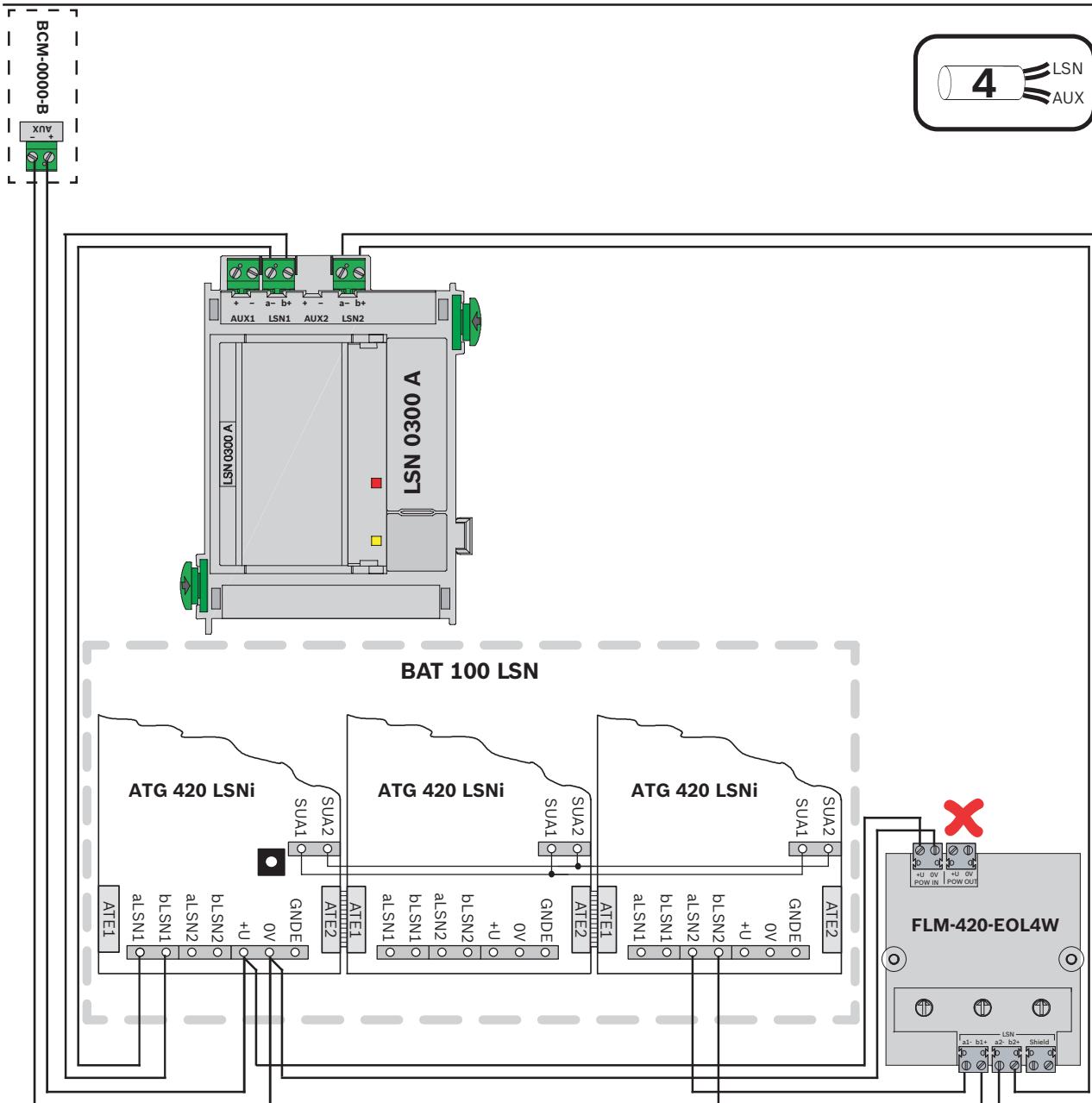
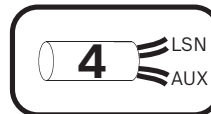


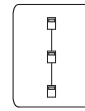
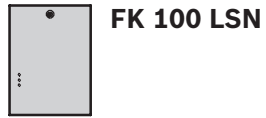
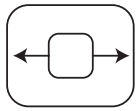


BAT 100 LSN
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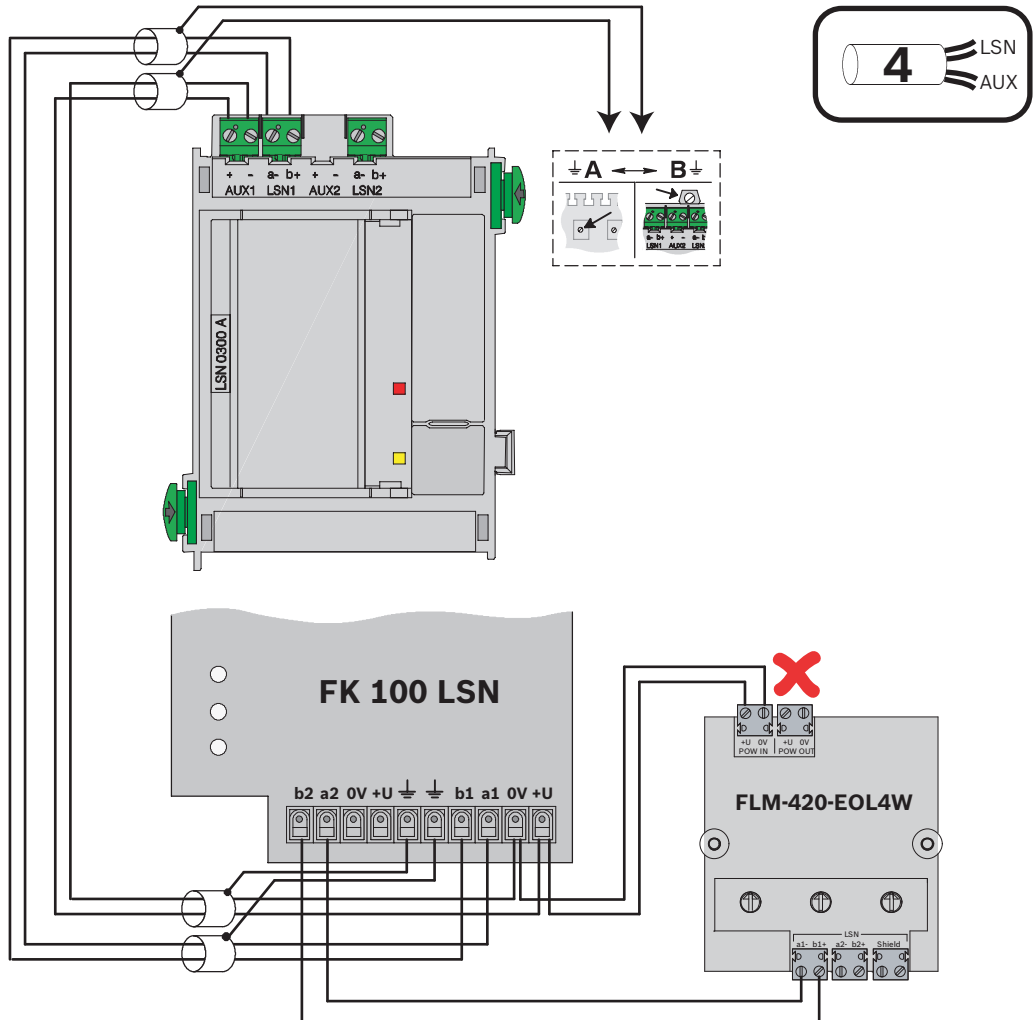
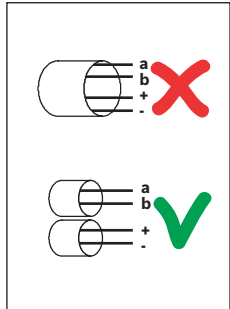


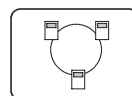
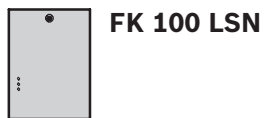
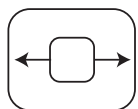
ELS VdS 2489



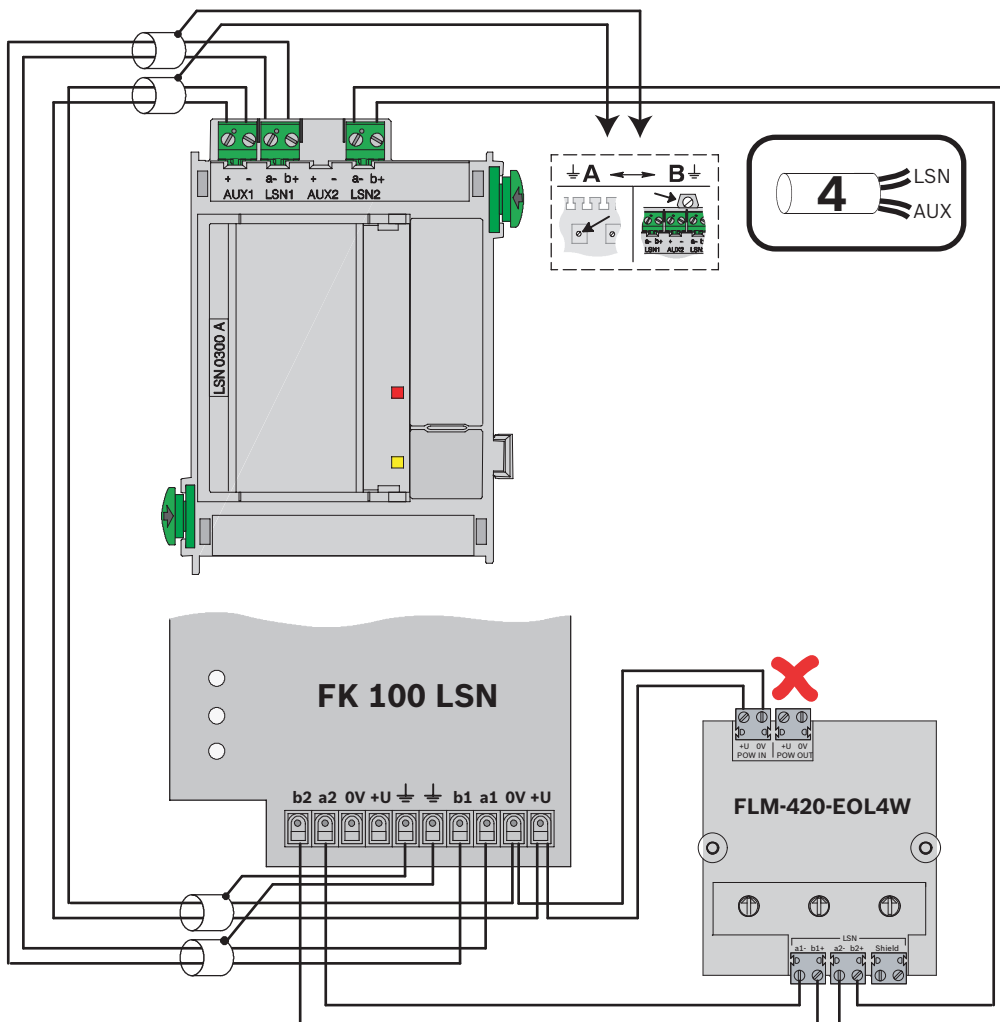
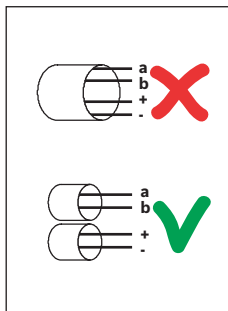


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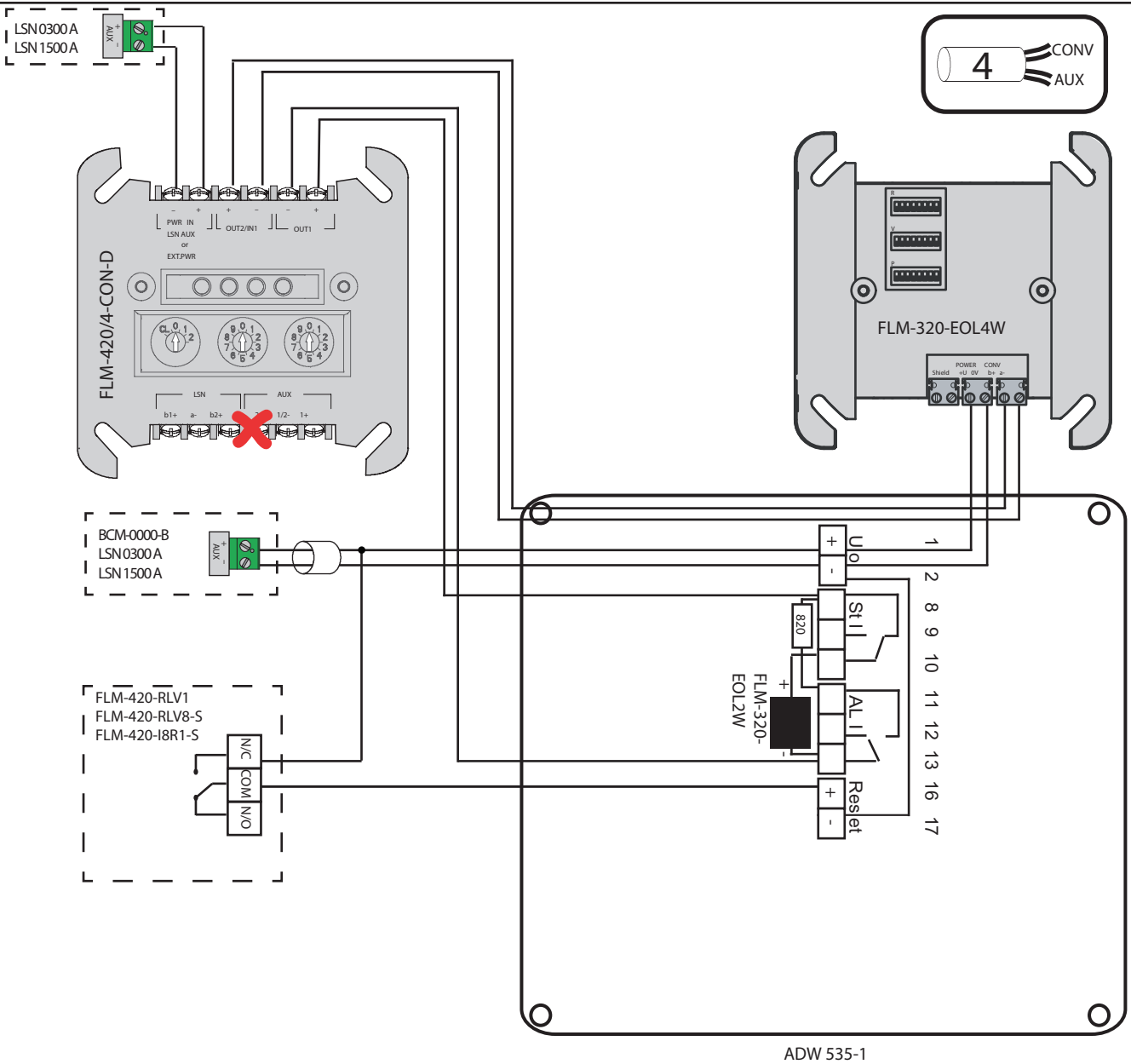


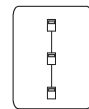


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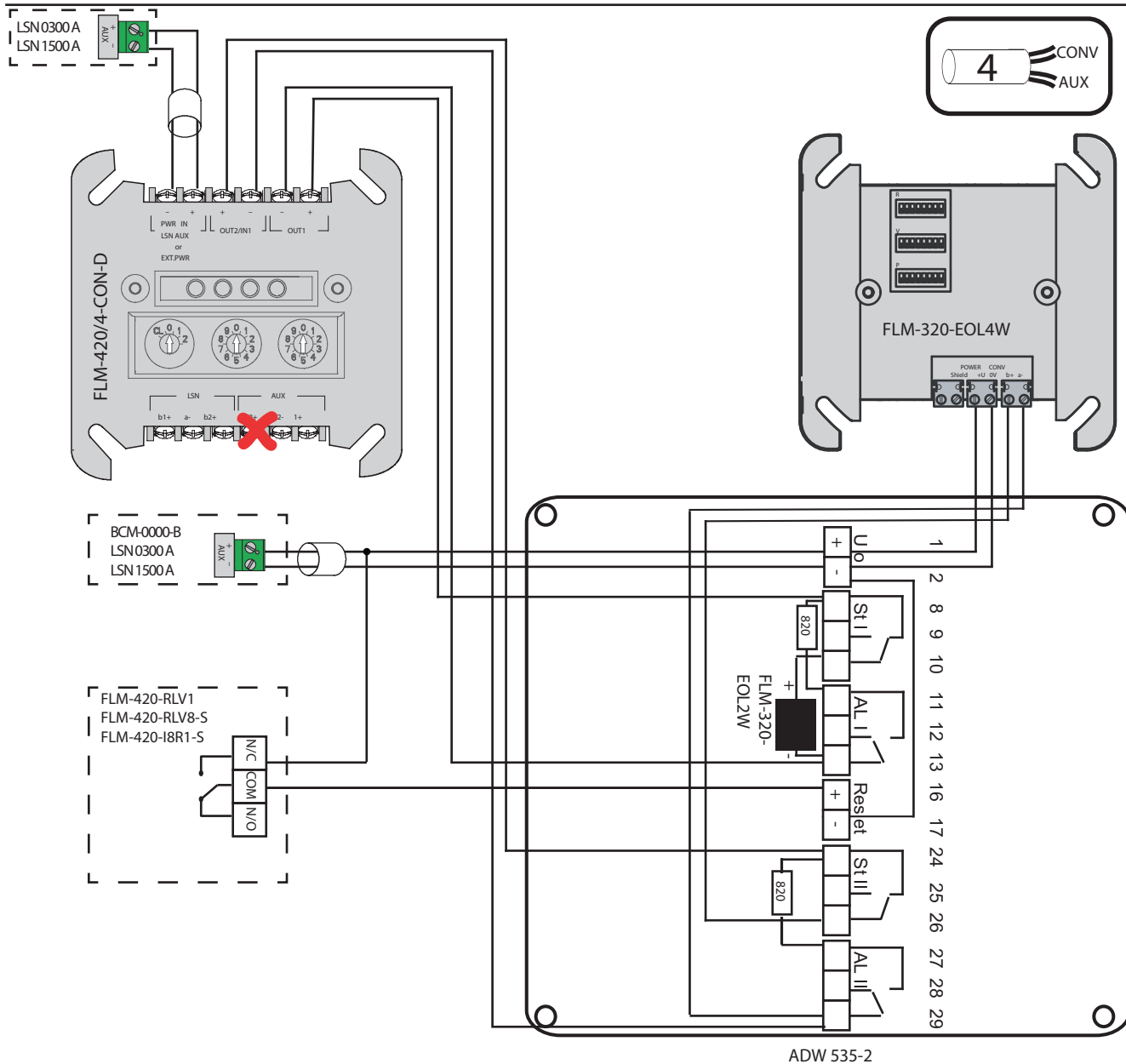


3.5.2 FLM-420/4-CON-S/D

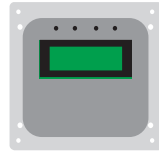




ELS VdS 2489



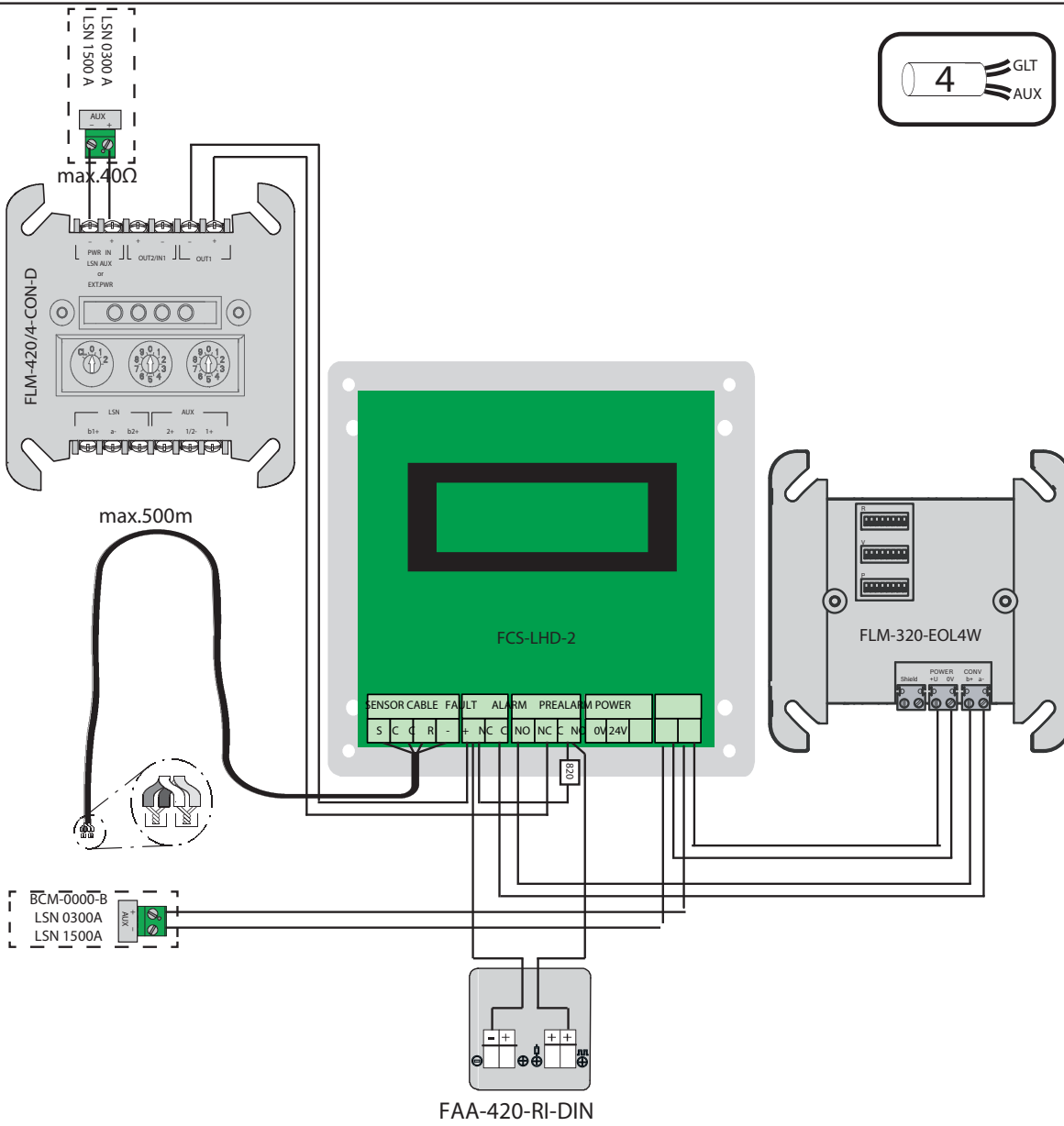
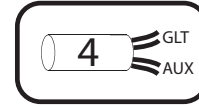
ADW 535-2



ALARMLINE II

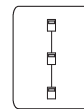


EL5 VdS 2489

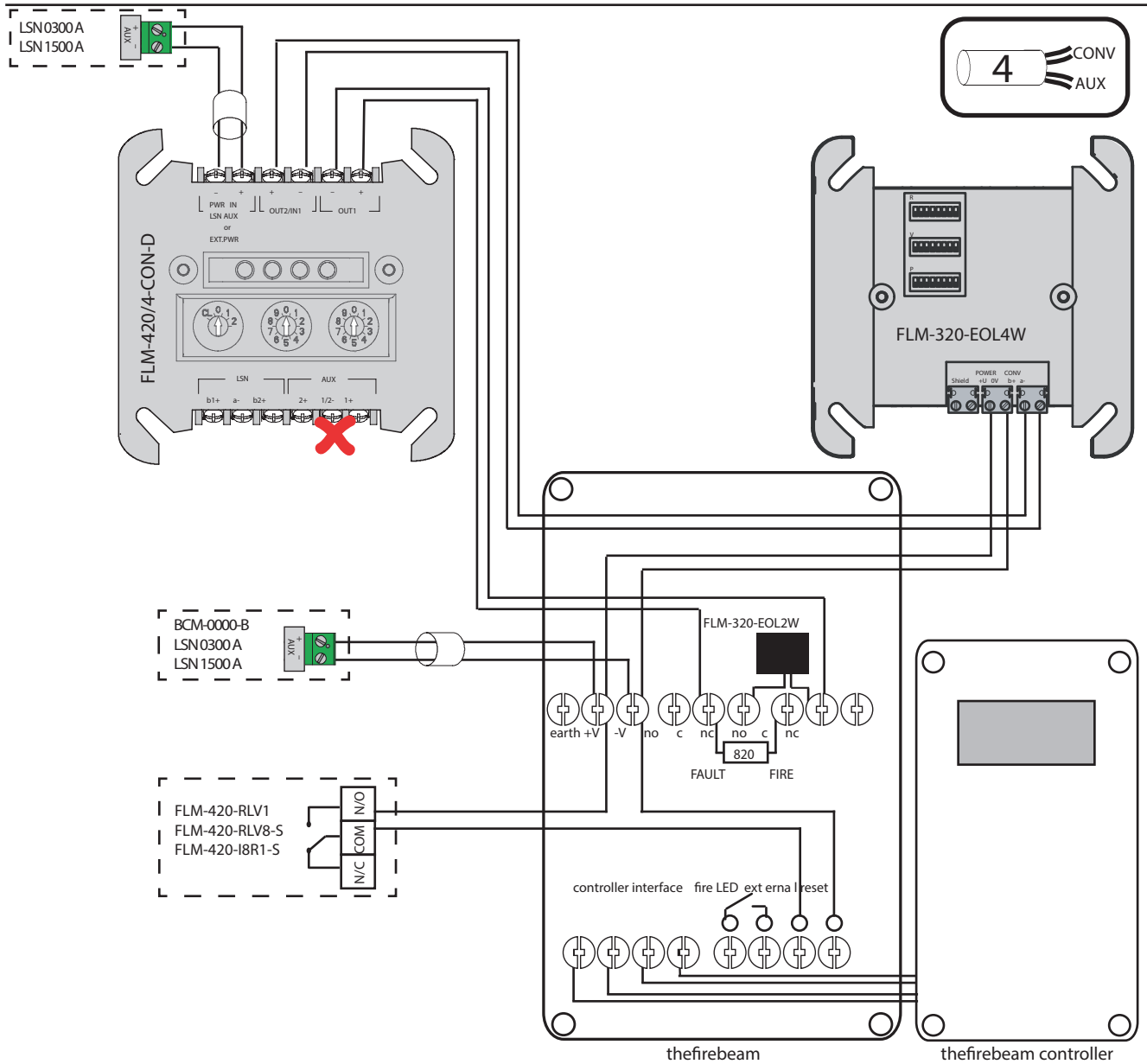


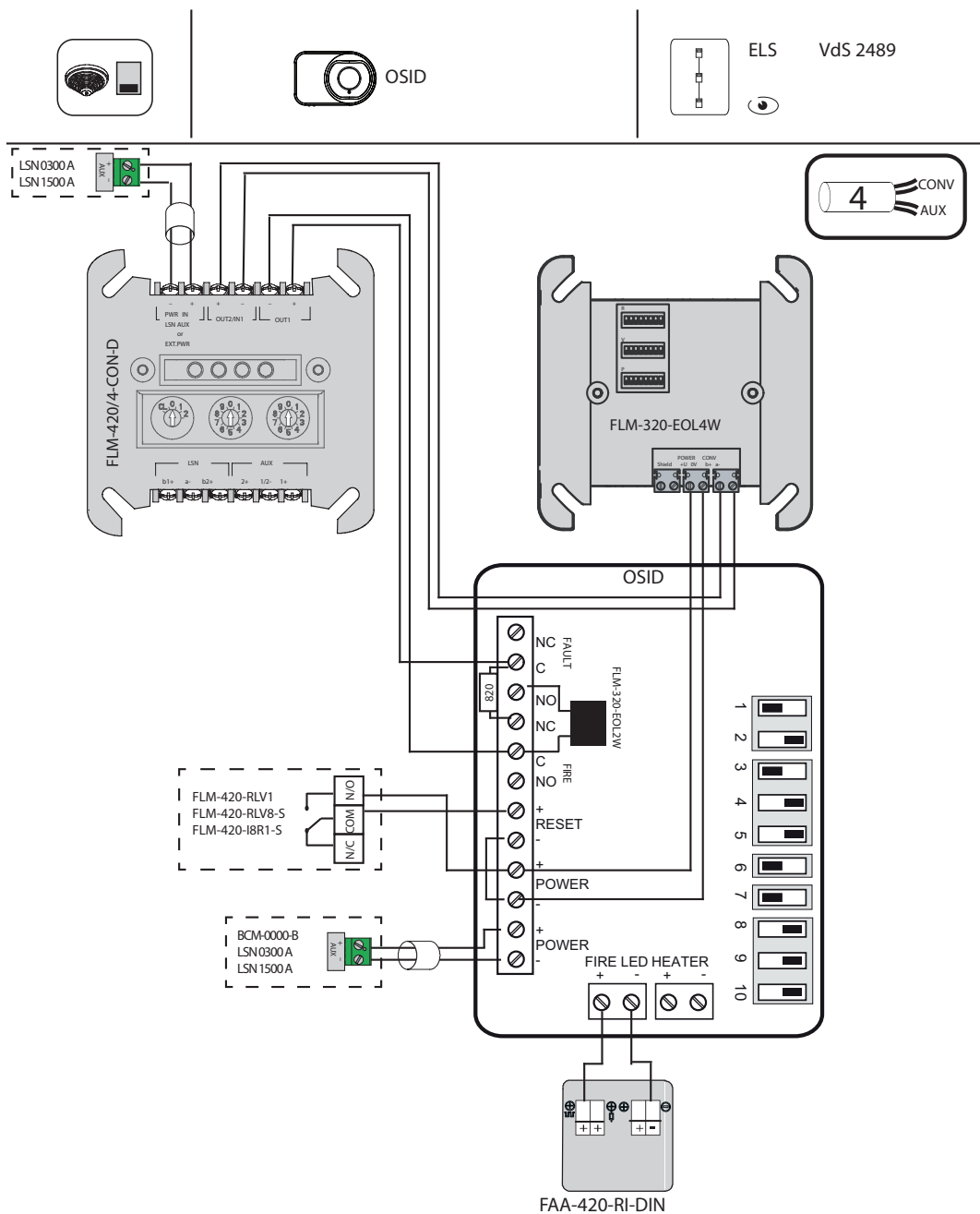


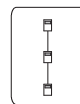
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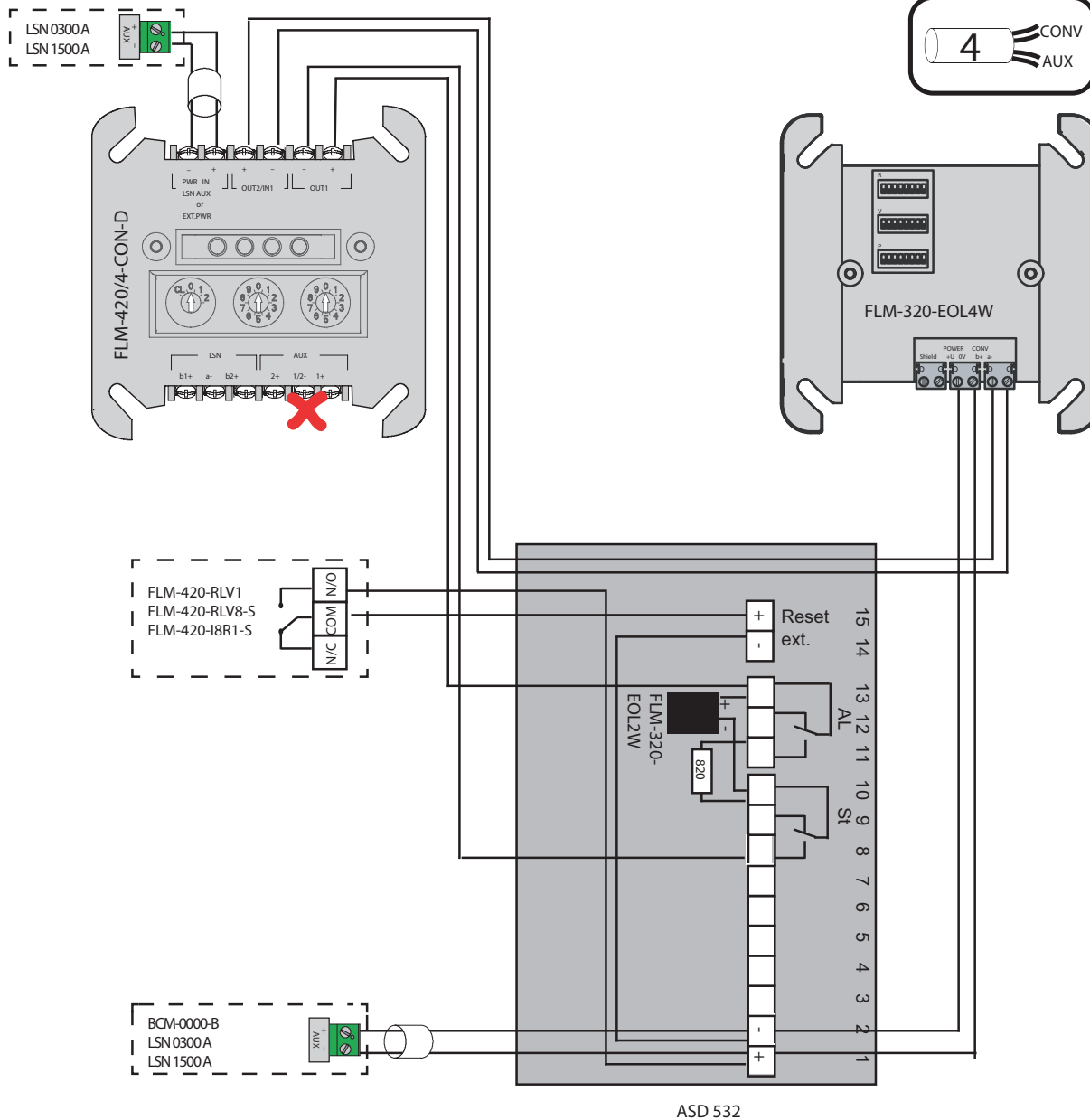
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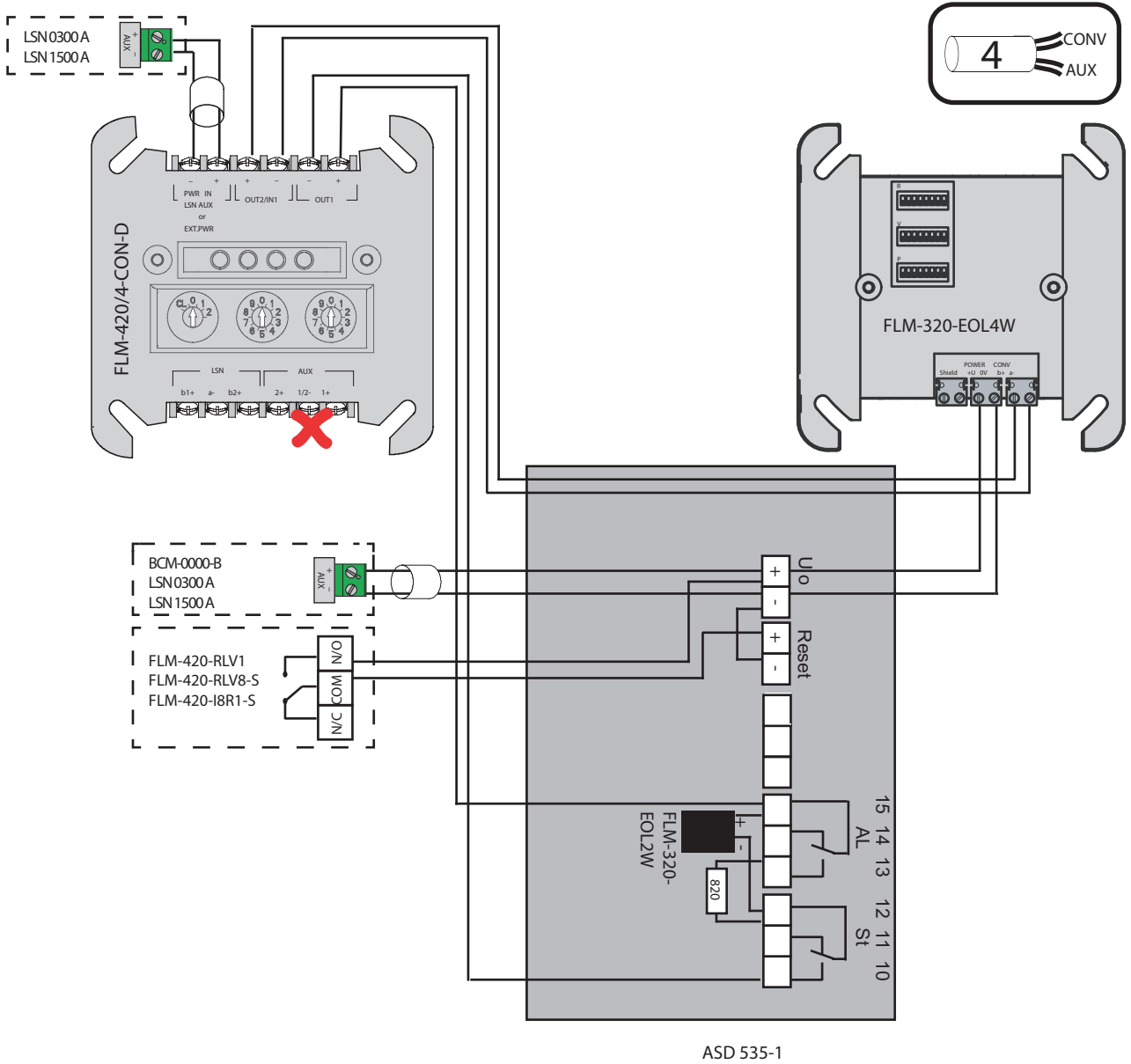


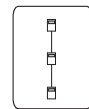




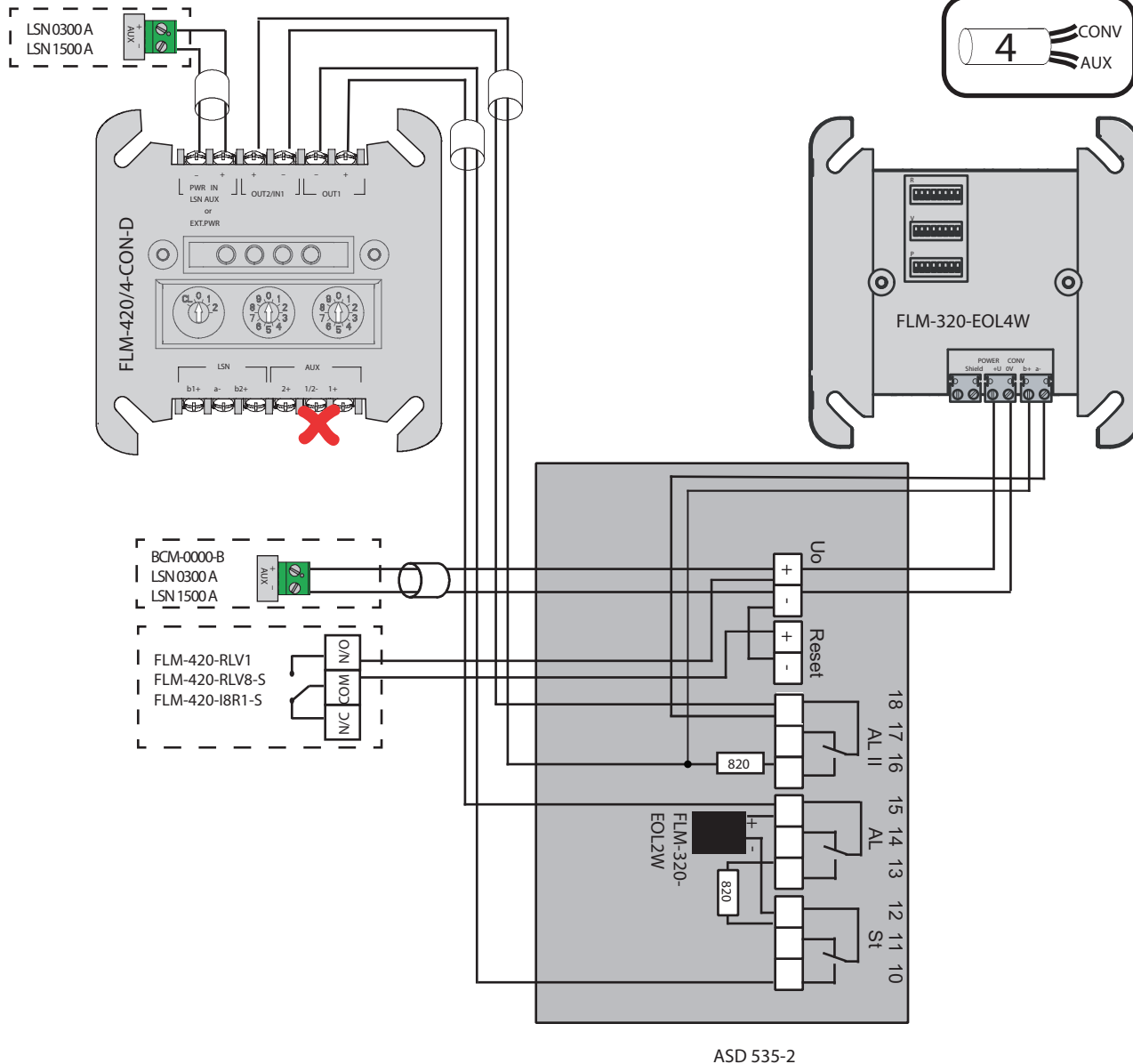
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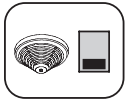




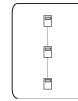


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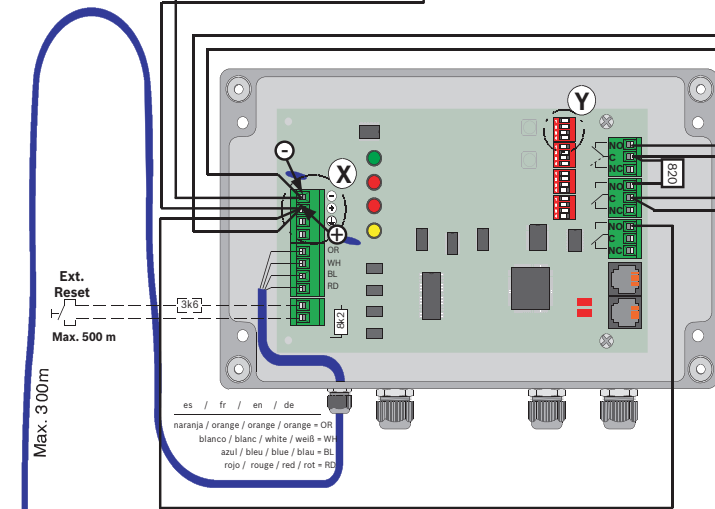
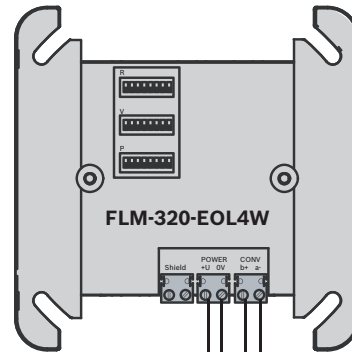
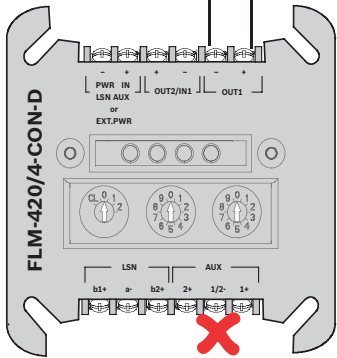
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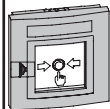
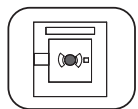


BCM-0000-B
LSN 0300 A
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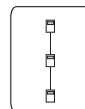


es / fr / en / de
naranja / orange / orange / orange = OR
blanco / blanc / white / white = WH
azul / bleu / blue / blau = BL
rojo / rouge / red / rot = RD



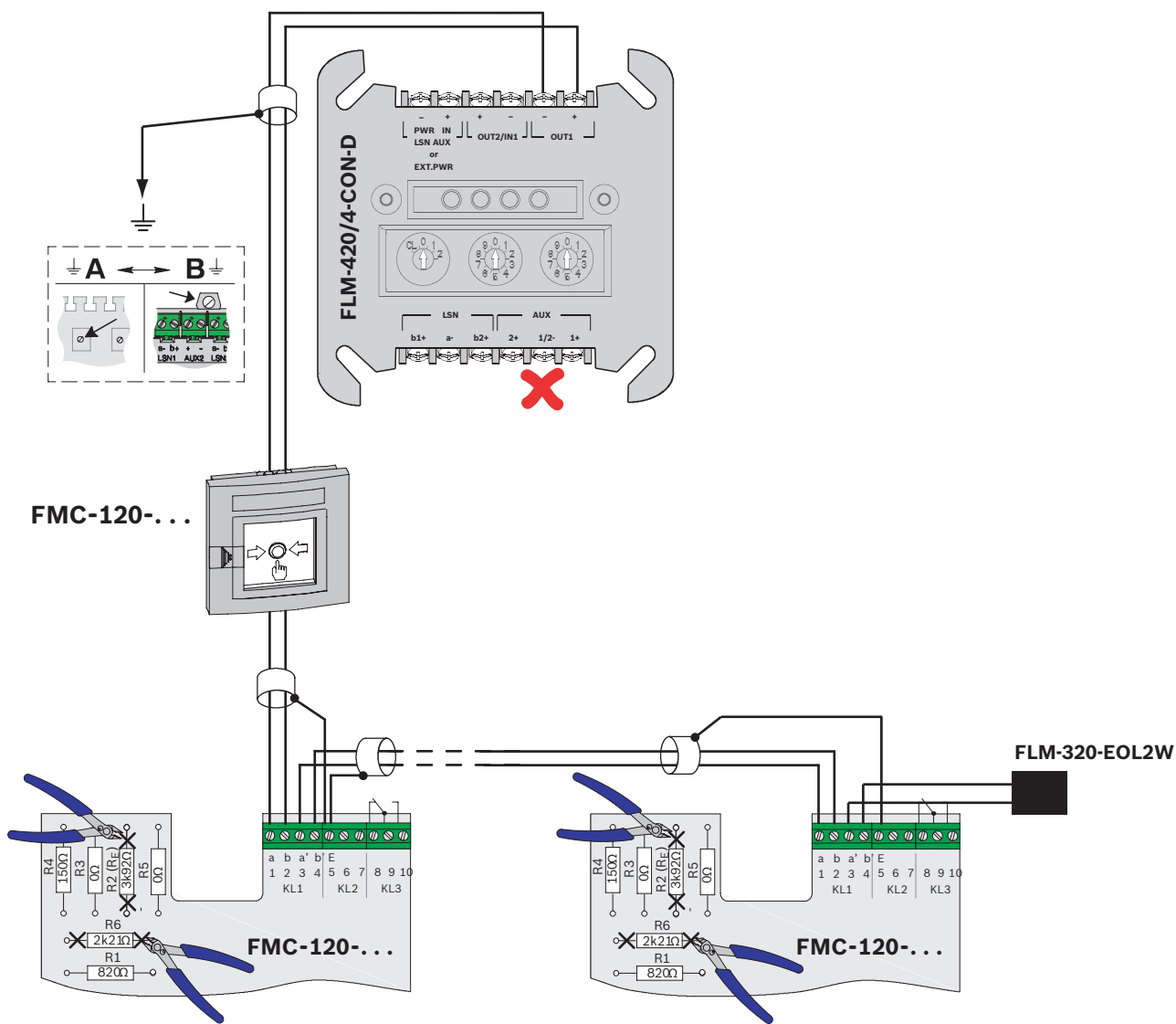


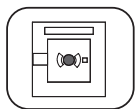
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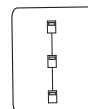
ELS

VdS 2489

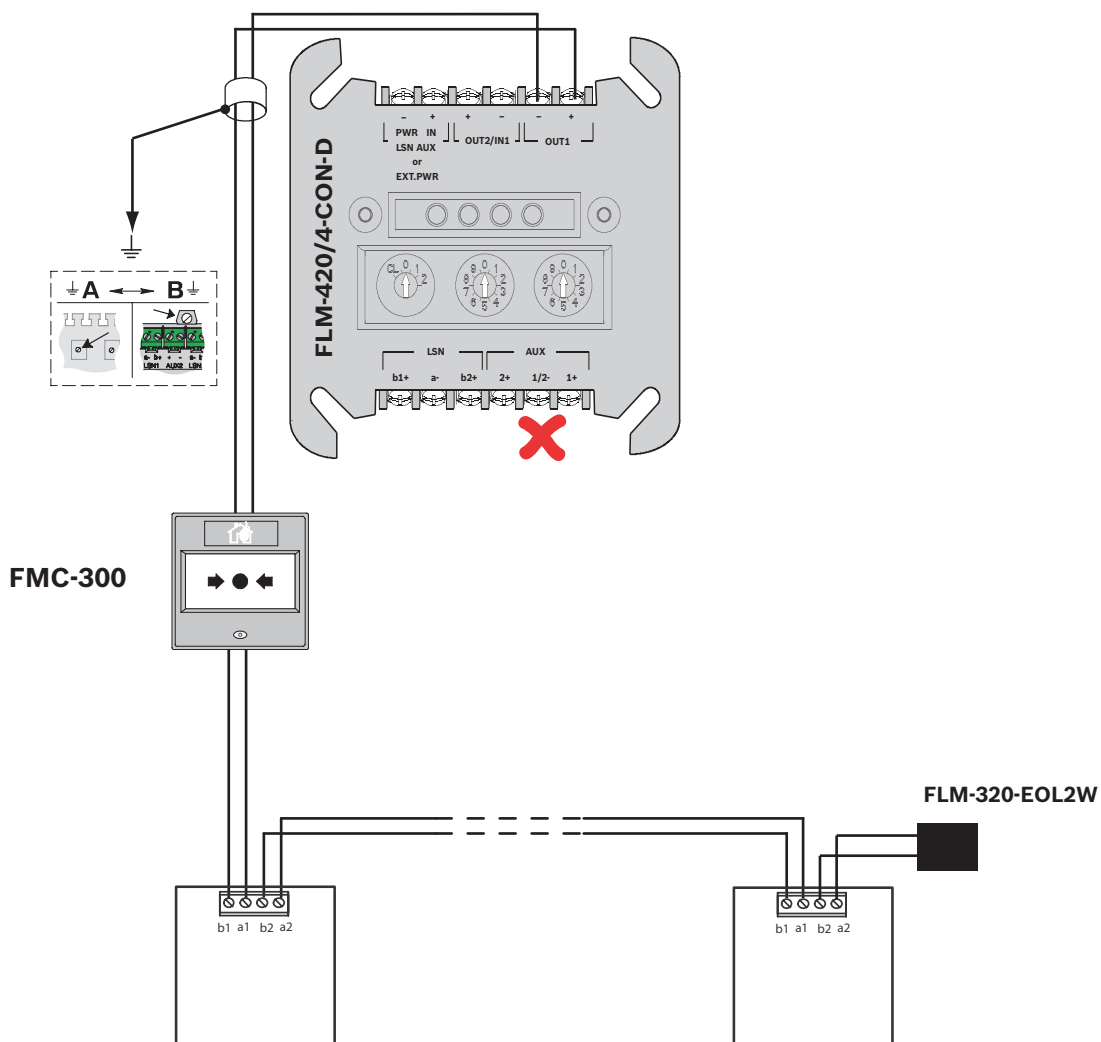




FMC-300



ELS VdS 2489

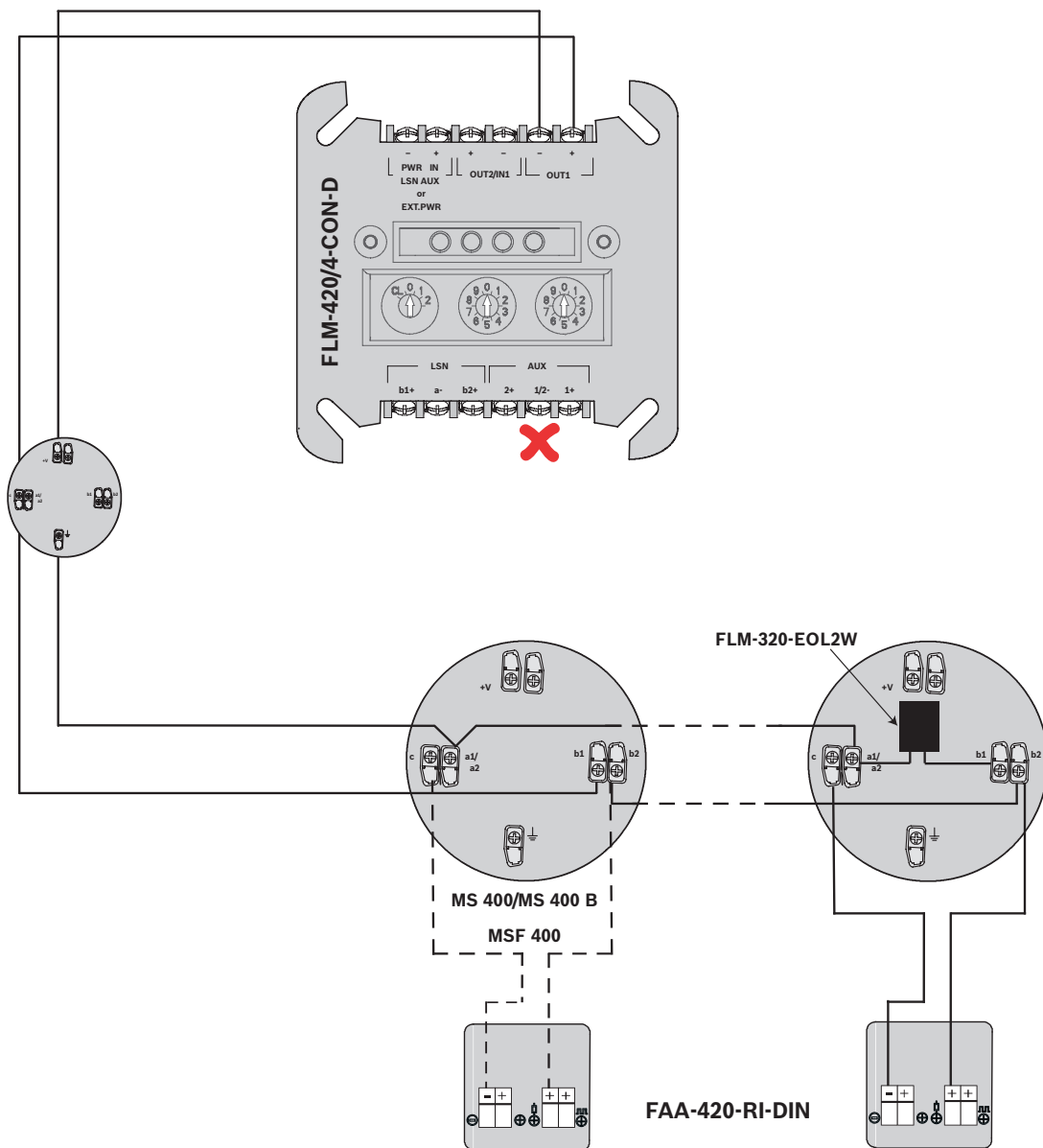




FAP-425-O/O-R/OT/OT-R/T-R
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 FCH-320-T320/T320-R470/T320-FSA
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ELS Vds 2489





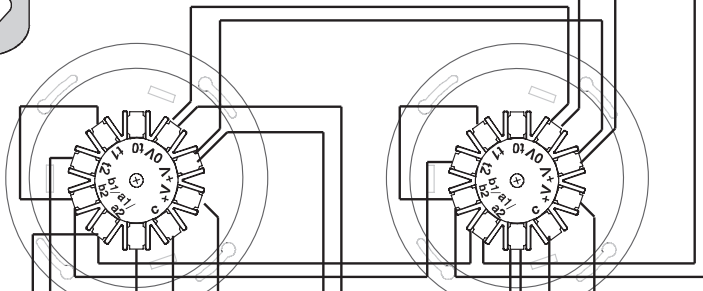
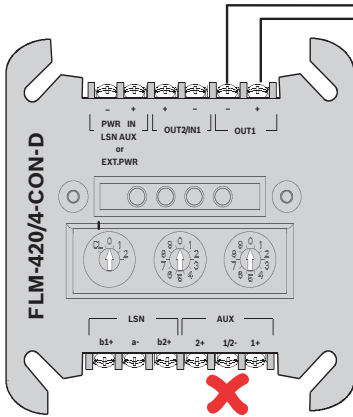
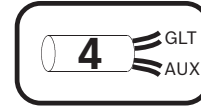
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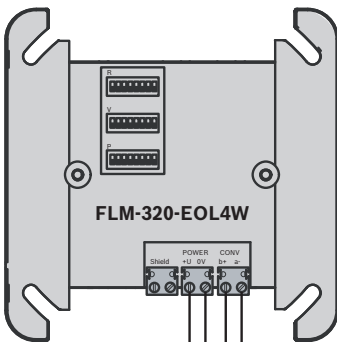


BCM-0000-B
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FCA-500-EU

FCA-500-EU

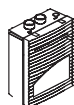


FLM-320-EOL4W

FAA-420-RI-DIN

FAA-420-RI-DIN





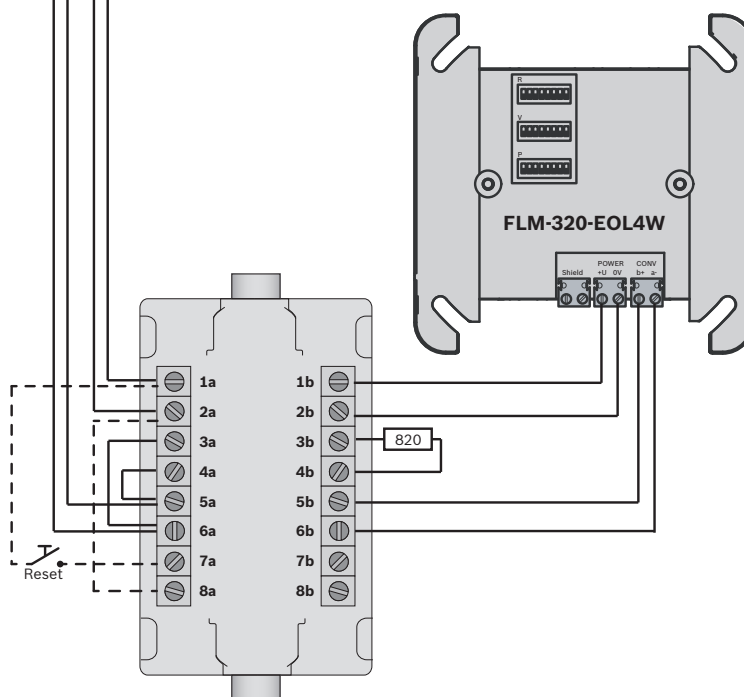
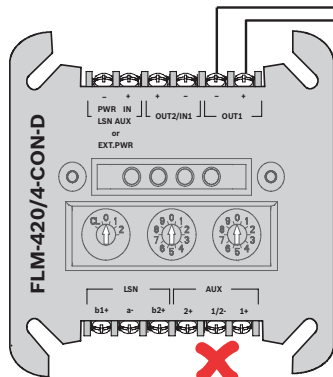
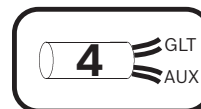
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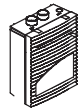


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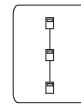


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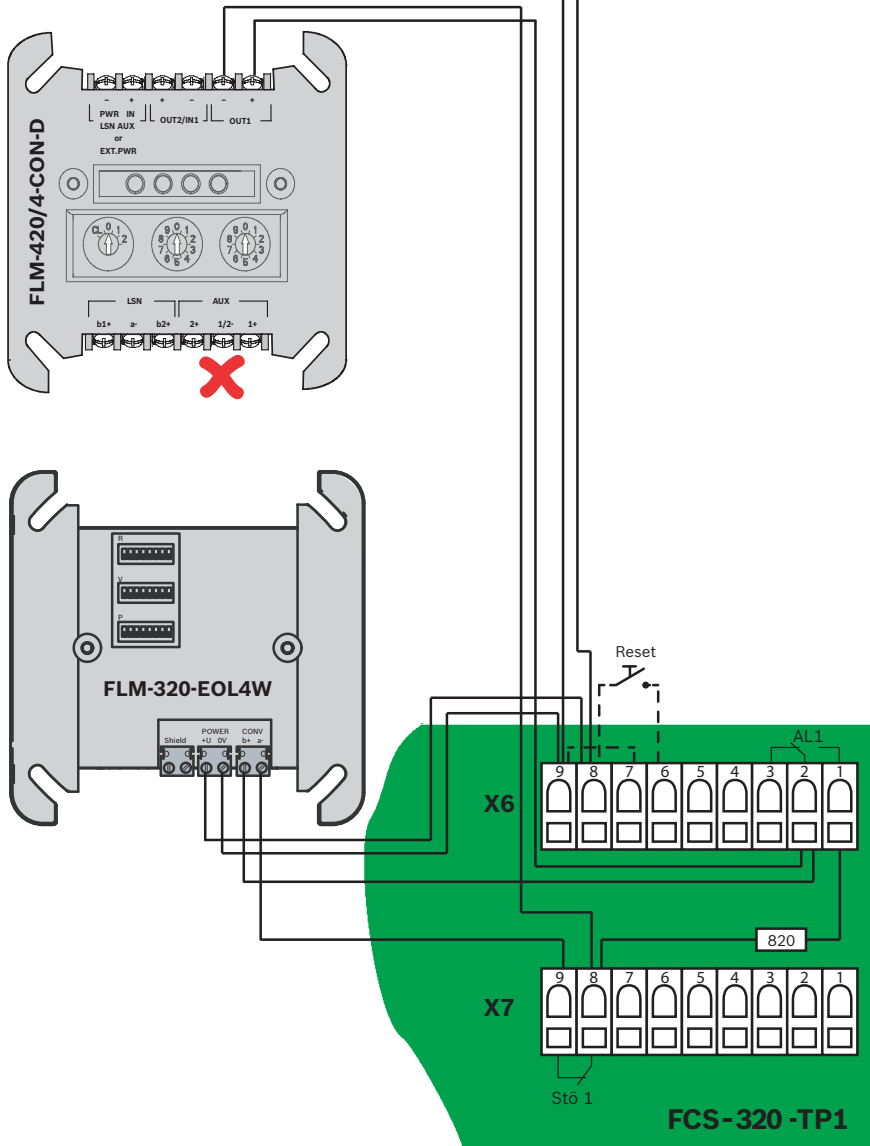
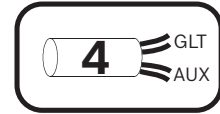


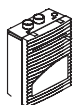
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ELS Vds 2489

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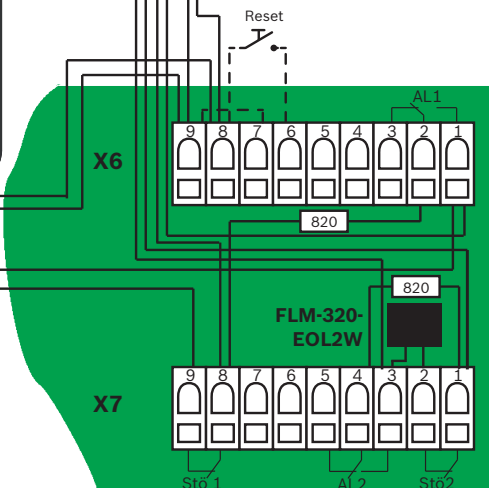
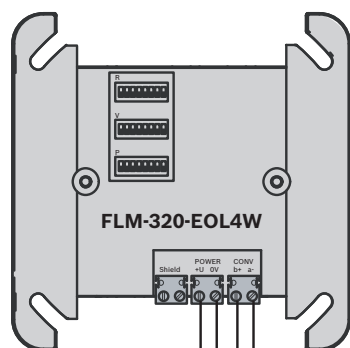
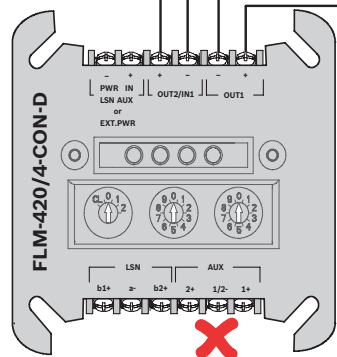


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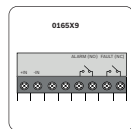


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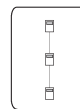
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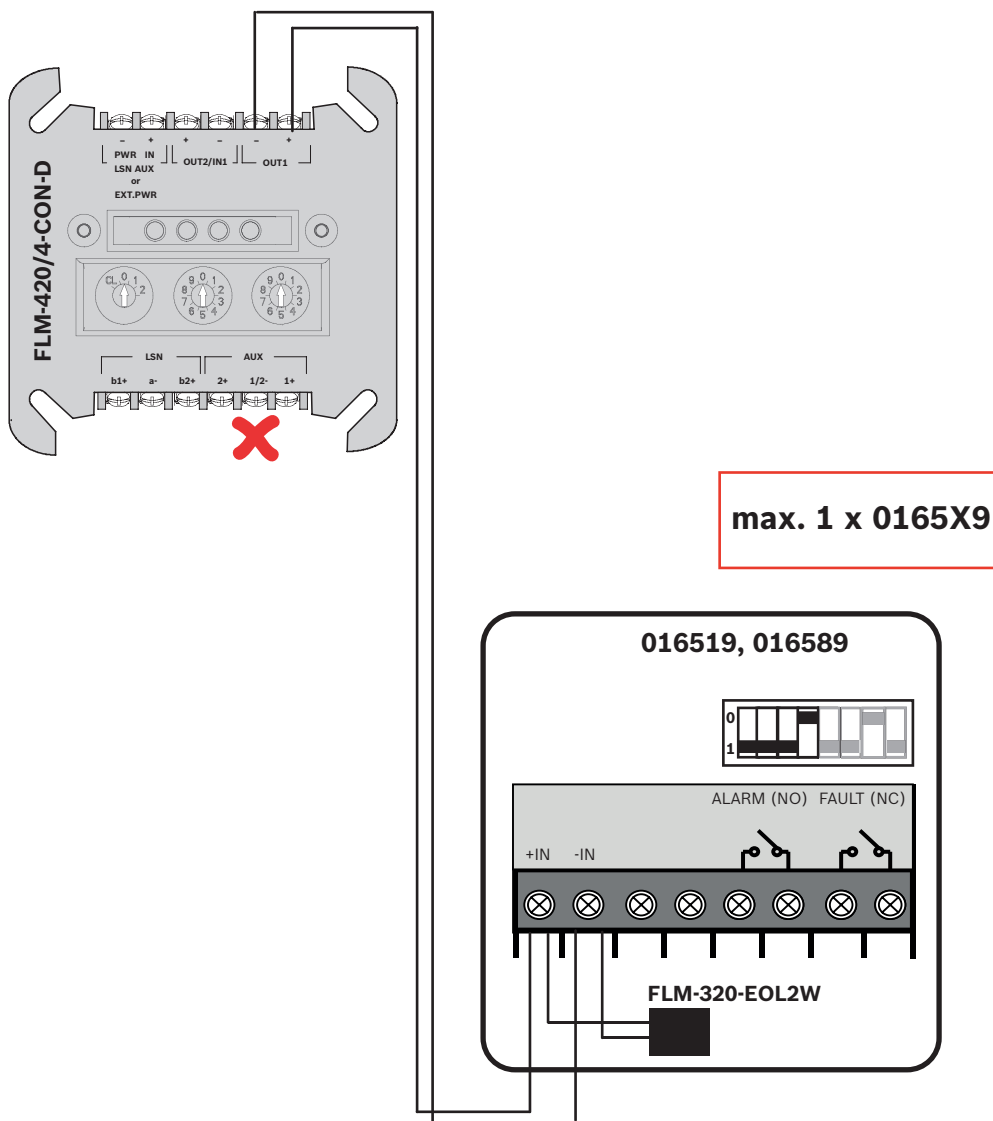
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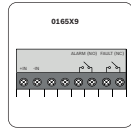


016519, 016589
IR3 Flame Detector

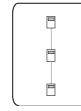


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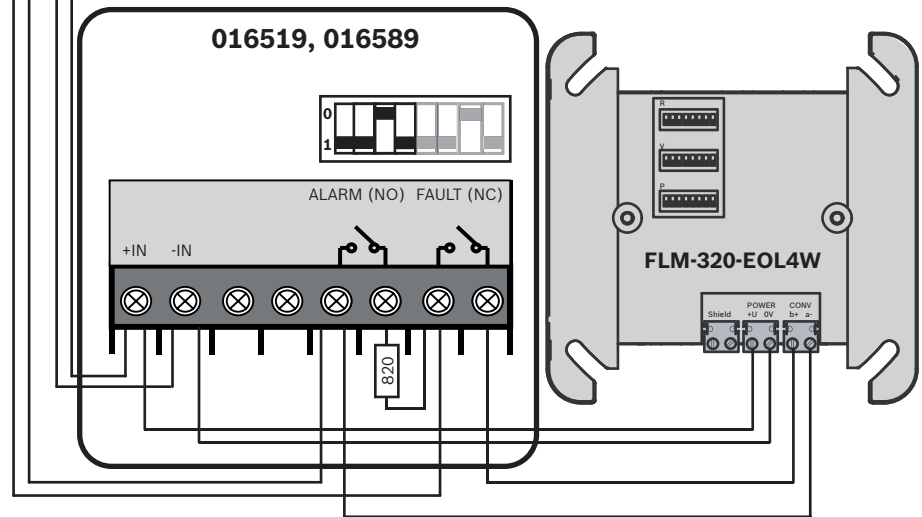
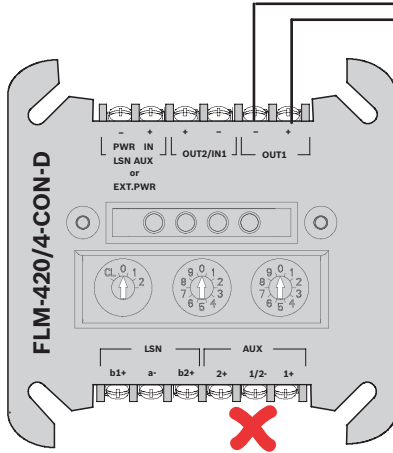
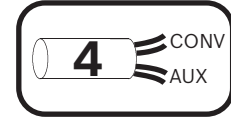
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IR3 Flame Detector



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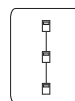


BCM-0000-B
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LSN 1500 A

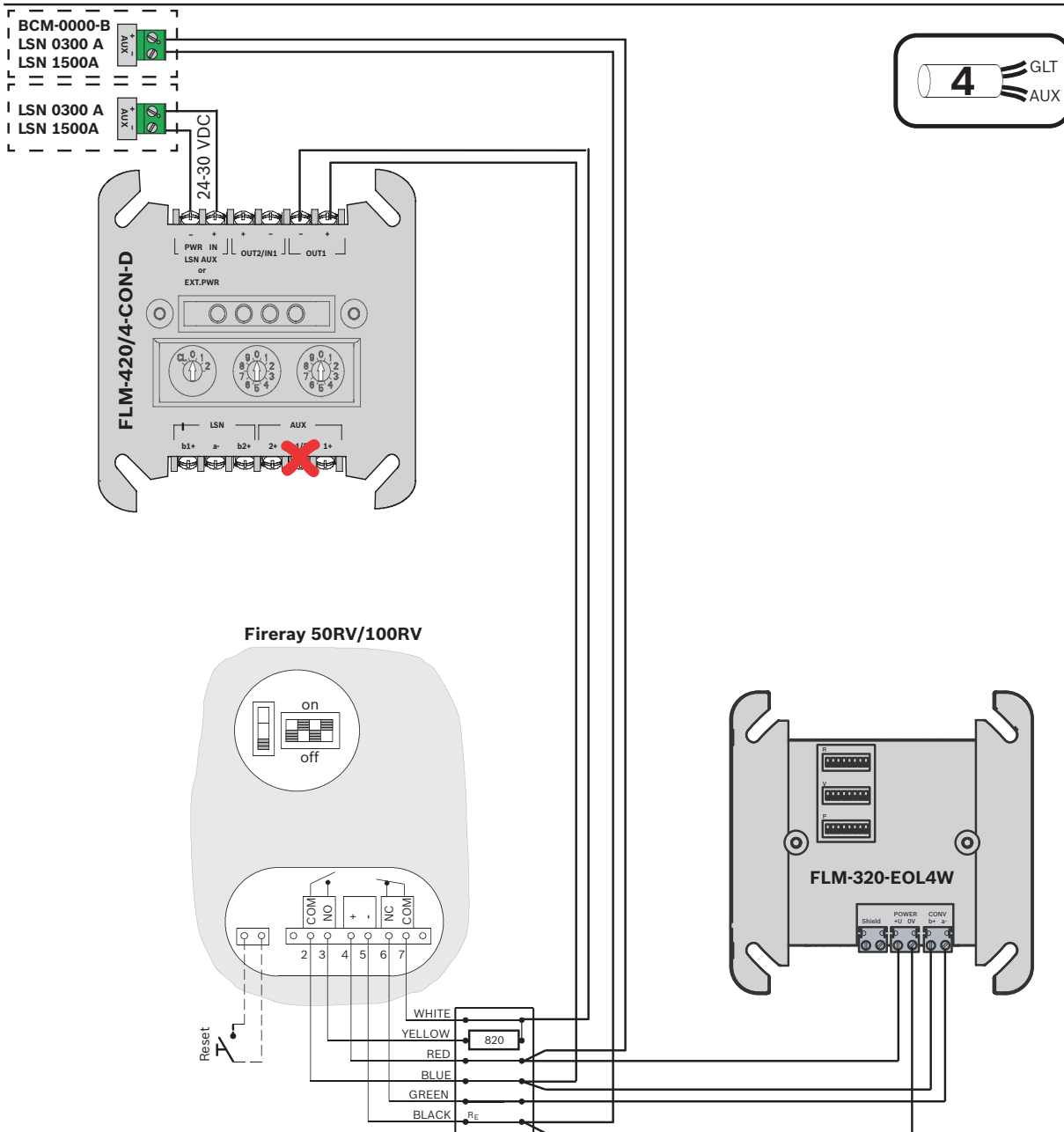


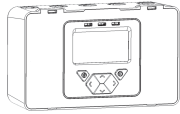
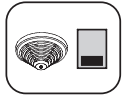


**Fireray 50RV
Fireray 100RV**



ELS VdS 2489



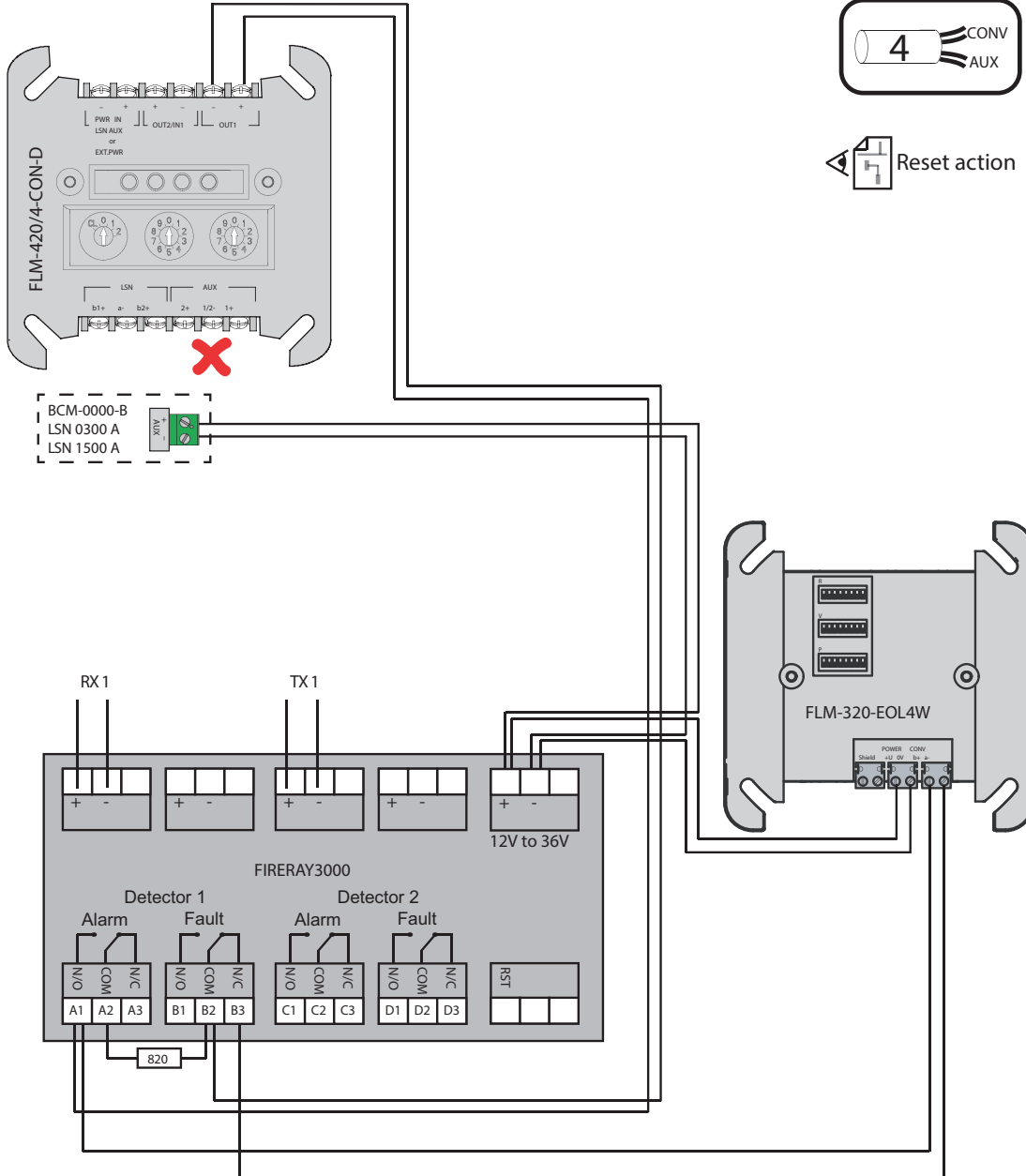


FIRERAY3000



ELS

VdS 2489





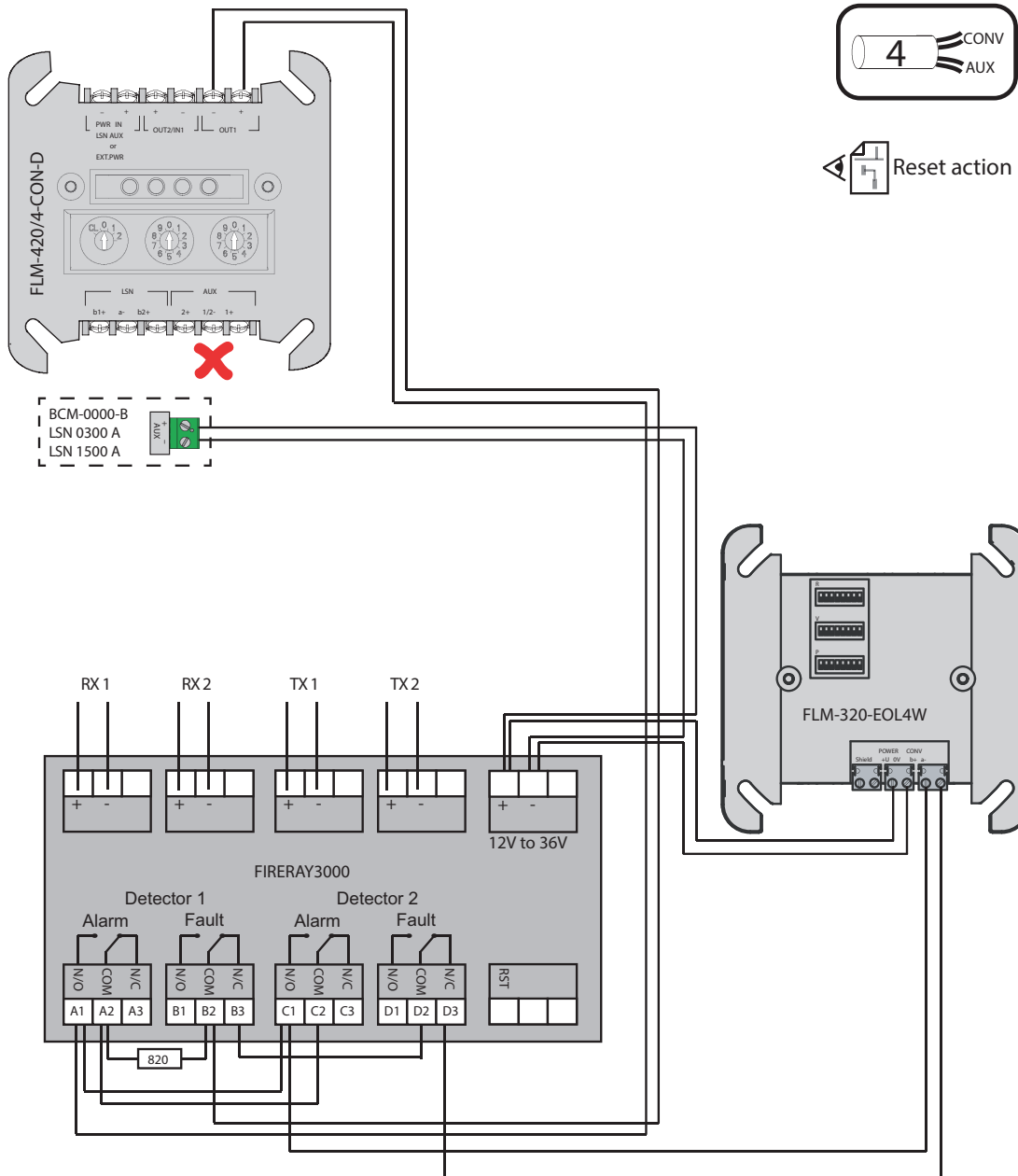
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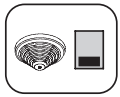
2 x 1



ELS

VdS 2489

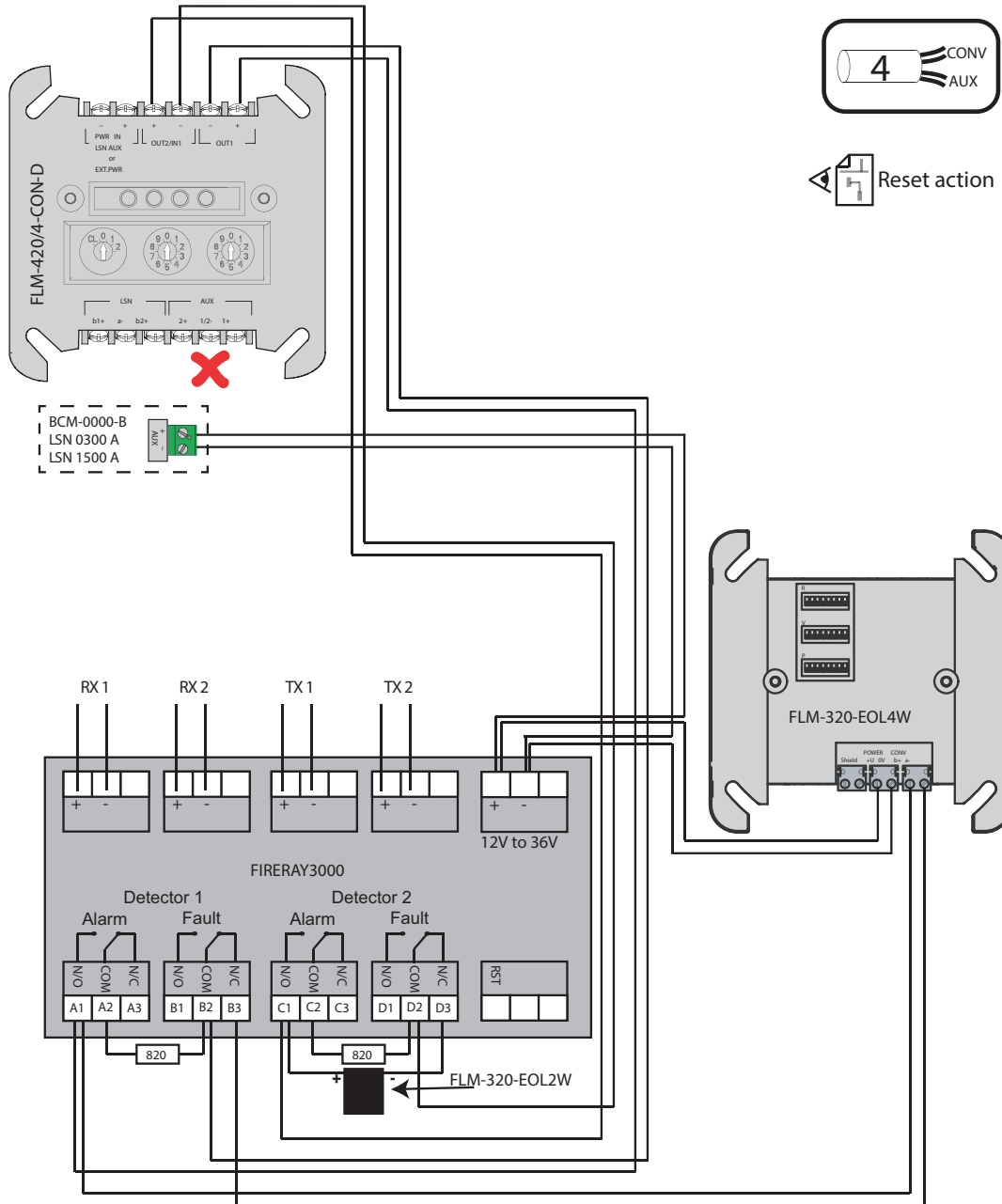




FIRERAY3000
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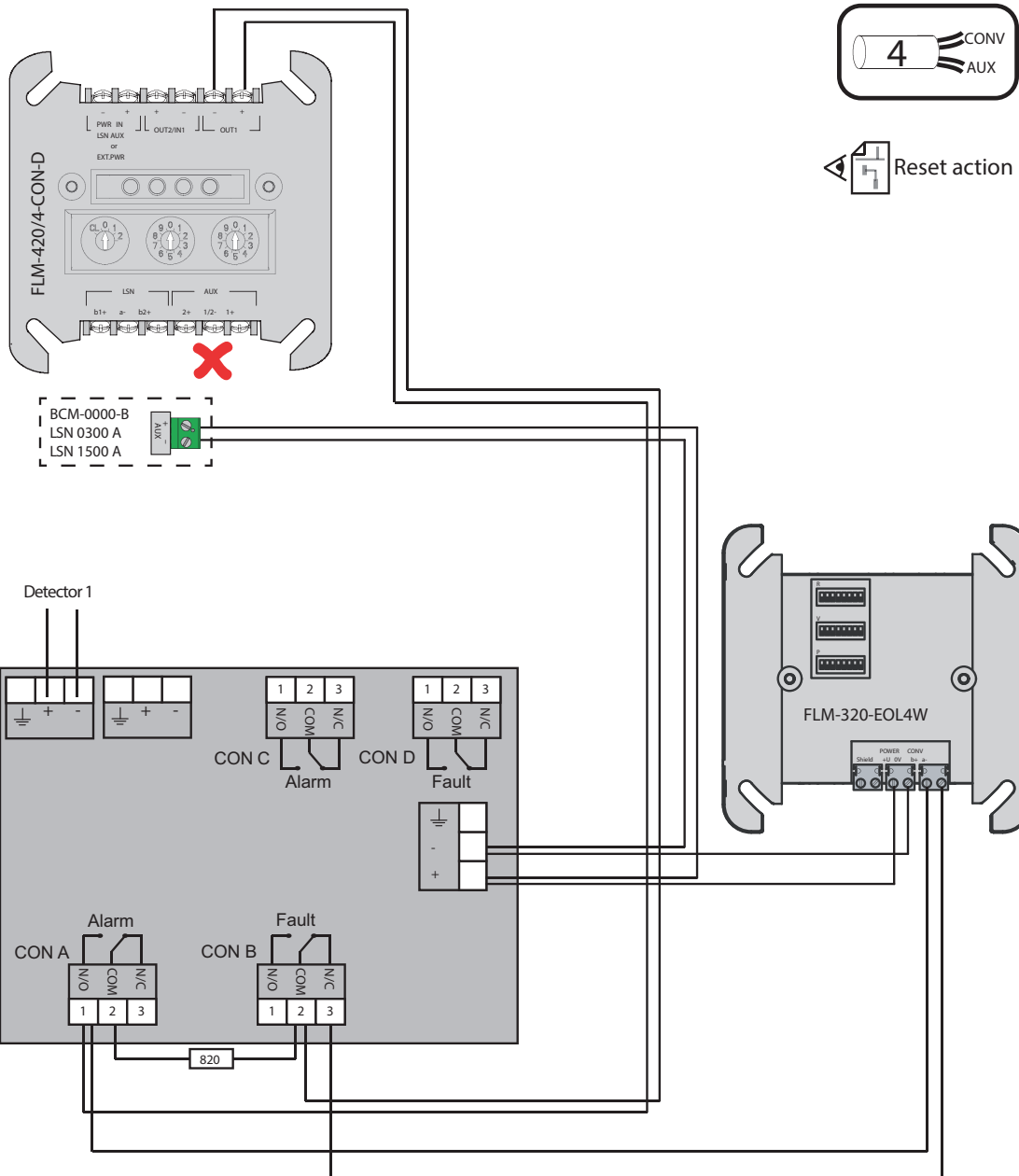


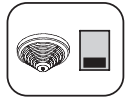
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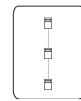


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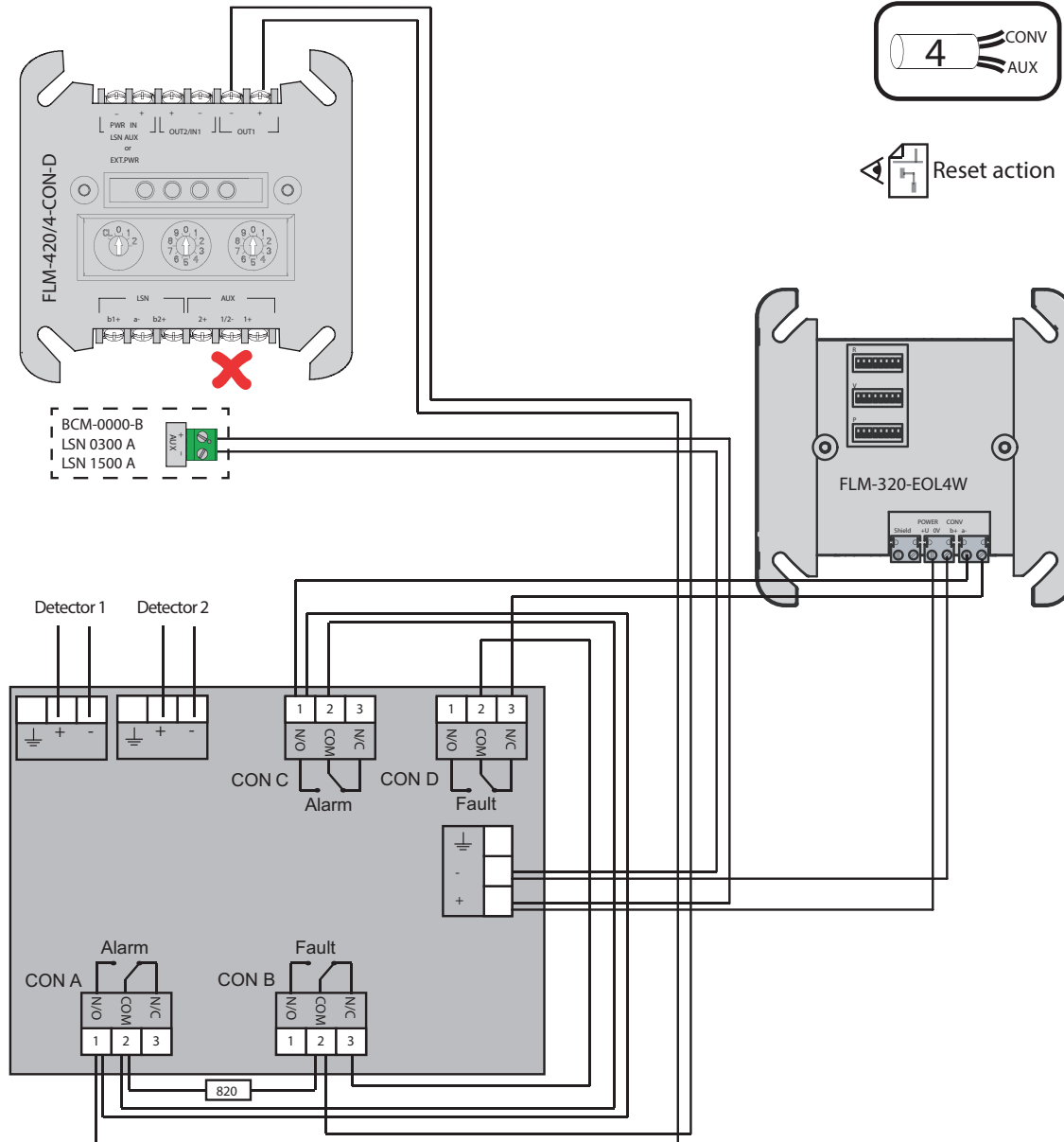




FIRERAY5000
2 x OUT1

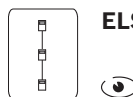


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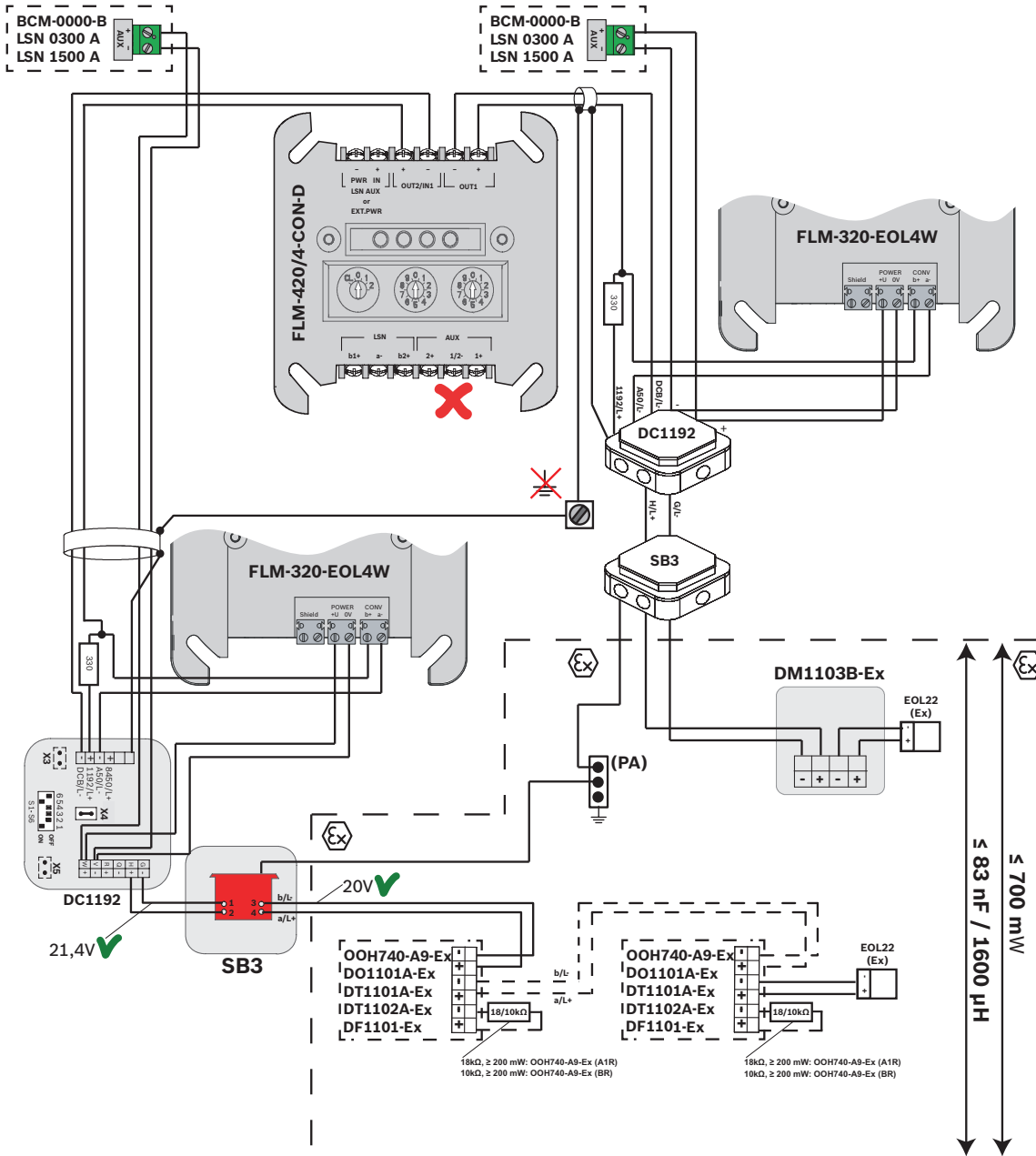


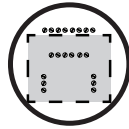


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 OOH740-A9-Ex
 DO1101A-Ex
 DT1101A-Ex/DT1102A-Ex
 DF1101-Ex
 DM1103B-Ex

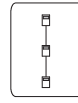


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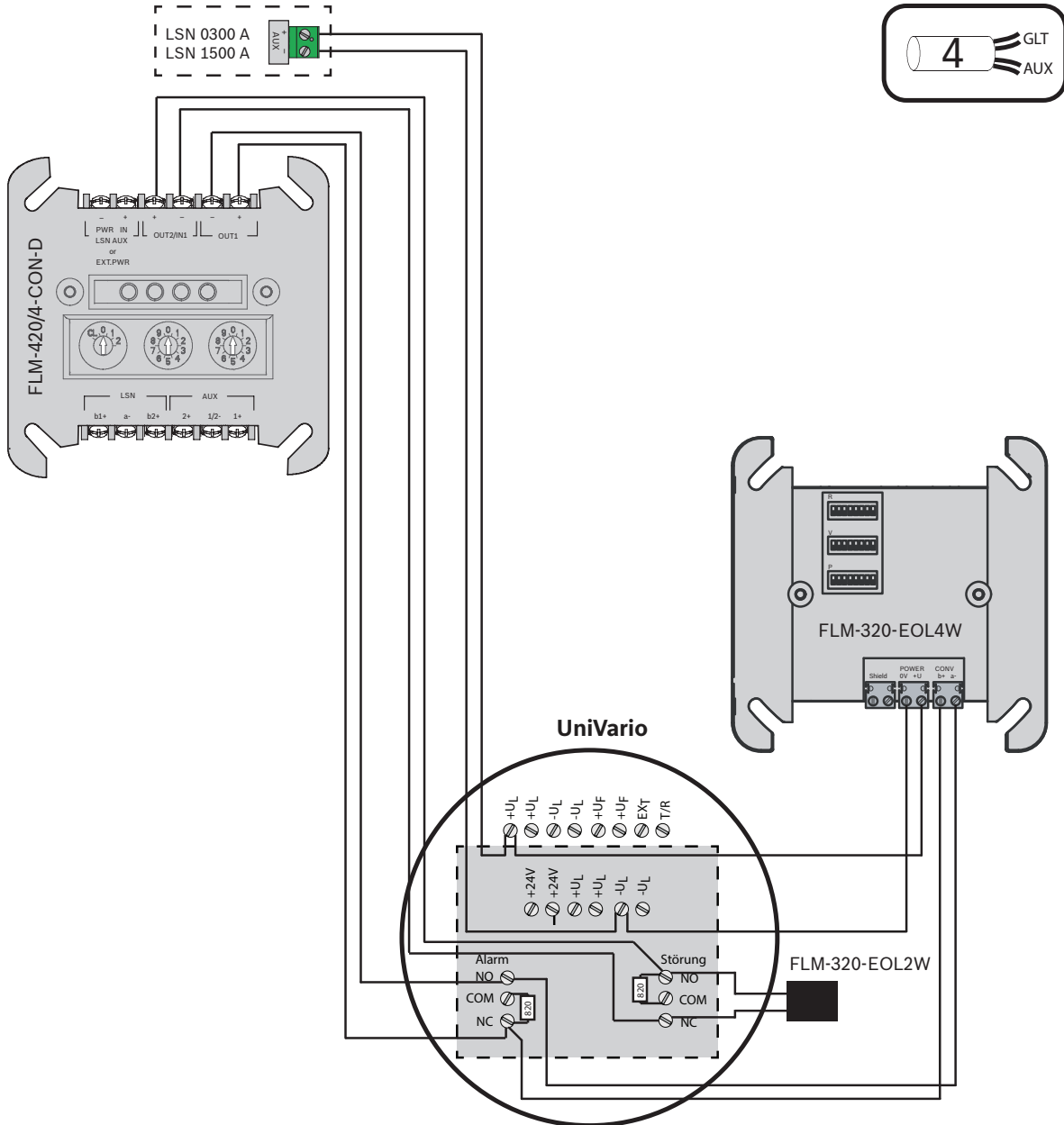




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 UniVario FMX5000
 UniVario KMX5000



ELS VdS 2489



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