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Notes:

1. FDN.–... busstop stations are designed to be connected using the Turck cordsets referenced in Note 2. These cordsets are constructed using ITC or PLTC cables to facilitate installation in Class I, Division 2 when the pertinent requirements of the NEC for installation of these cable types are observed. The receptacles detailed in Note 2 facilitate connection to other fieldbus participants. See sheets 2–6 for requirements specific to each type of installation listed above.

2. Cordsets and Receptacles

**minifast**® devicenet (trunkline) cordsets

Single-ended cords

Rab 57c – dM

Wab 57c – dM

Extension cords

Rab Rab 57c – dM    RSb WKb 57c – dM

RKb WKb 57c – dM    Wab Wab 57c – dM

RSb WSb 57c – dM    WSb RKb 57c – dM

a = Connector gender K, or S

b = Coupling nut material M, or V

c = Cable spec 2, 7, 8, 9, 11, 20, 21A, or 22

d = Cable length in meters

**euromast**® devicenet (trunkline) cordsets

Single-ended cords

Rabc 57d – eM

Wabc 57d – eM

Extension cords

Rabc Rabc 57d – eM    RSbc WSbc 57d – eM

RKbc WKbc 57d – eM    RSbc WKbc 57d – eM

Wabc Wabc 57d – eM    WSbc RKbc 57d – eM

a = Connector gender K, or S

b = Plug body C, E, G, or blank

c = Coupling nut material K, V, or blank

d = Cable spec 2, 7, 8, 9, 11, 20, 21A, or 22

e = Cable length in meters

**euromast**® to **minifast**® devicenet (trunkline) extensions

RSa RSbc 57d – eM    RKa RSbc 57d – eM

RSa WSbc 57d – eM    RKa WSbc 57d – eM

WSa RSbc 57d – eM    WKa RSbc 57d – eM

WSa WSbc 57d – eM    WKa WSbc 57d – eM

a = Coupling nut material M, or V

b = Plug body C, E, G, or blank

c = Coupling nut material V, or blank

d = Cable spec 2, 7, 8, 9, 11, 20, 21A, or 22

e = Cable length in meters

**minifast**® devicenet (trunkline) receptacles

RSFa 57b – cM/ d    RSFa 46 – cM/ d

RKFa 57b – cM/ d    RKFa 46 – cM/ d

RSF RKF 57/22

**euromast**® devicenet (trunkline) receptacles

FSa 57b – cM/ d

FKa 57b – cM/ d

FKM FS 57/M12

a = Housing Material V or blank

b = Cable/lead type T, O, or blank

c = Cable/lead length in meters

d = Thread 14.5, 14.75, M20, or blank

**minifast**® auxilliary power cordsets

Single-ended cords

Rab 462 – cM

Wab 462 – cM

Extension cords

Rab Rab 462 – cM    RSb WKb 462 – cM

RKb WKb 462 – cM    Wab Wab 462 – cM

RSb WSb 462 – cM    WSb RKb 462 – cM

a = Connector gender K, or S

b = Coupling nut material M, or V

c = Cable length in meters

**minifast**® I/O (spur) cordsets

Single-ended cords

P–RSa 4b – c – dM

Extension cords

P–RKb RSb ...– c – dM

a = Coupling nut material M, or V

b = Conductor pinout/color code

c = 3 or 4–digit ITC cable designator

d = Cable length in meters

**euromast**® I/O (spur) cordsets

Single-ended cords

P–RSGa 4bT – d

Extension cords

P–RKGa 4bT–c–d–RSGa 4bT

a = Coupling nut material V, or blank

b = Conductor pinout/color code

c = 3 or 4–digit ITC cable designator

d = Cable length in meters

**minifast**® field device entry receptacles

P–RSFa 4b – c/ d

**euromast**® field device entry receptacles

P–FSa 4b – c/ d

a = Housing Material V or blank

b = Conductor pinout/color code

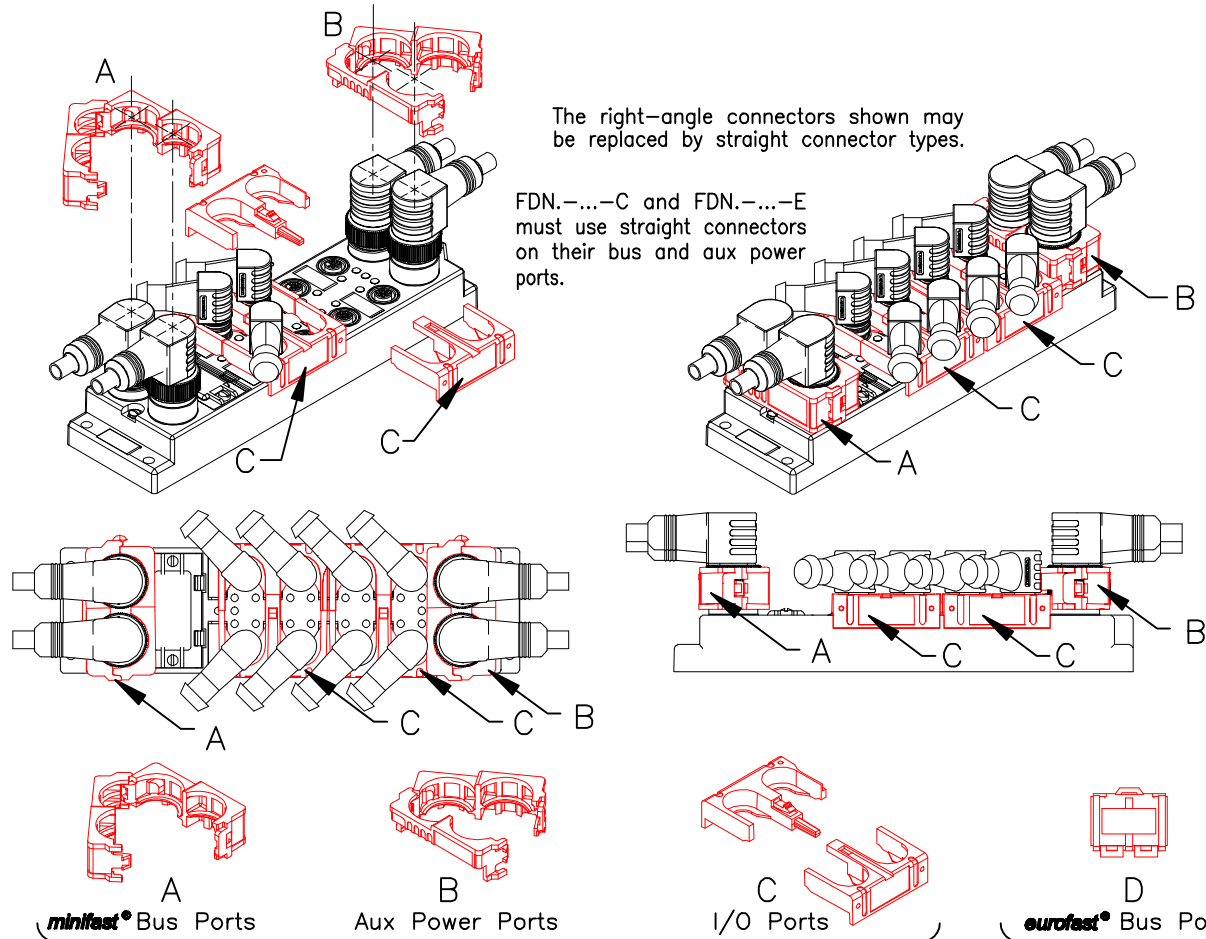
c = Cable/lead length in meters

d = Thread 14.5/NPT, 14.75/NPT, M20, or blank

B	Add FDNQ–C4–T–F0141 and FDNQ–4A–V/I–T, correct I/O cordset and receptacle requirements	BVL	11/10/08
A	Release	BVL	8/2/05
Rev	Description	Drft	Date

Drawing No.: NI–1.004	<b>TURCK</b> 3000 Campus Drive Plymouth, MN 55441 Phone: (763) 553–7300
Title: Installation of FM Approved FDN(L)(P)(Q) Busstop Stations and Accessories in Class I, Division 2 Hazardous Locations	
Scale: NONE	Sheet 1 of 6

All connectors in the hazardous location must be secured as shown below using the appropriate **lokfast**® guard when the circuit is energized. This includes I/O ports, bus ports, and auxiliary power ports. See the table below for the **lokfast**® guard kit for use with each specific FDN...-... model.



**A**  
**minifast**® Bus Ports

**B**  
Aux Power Ports

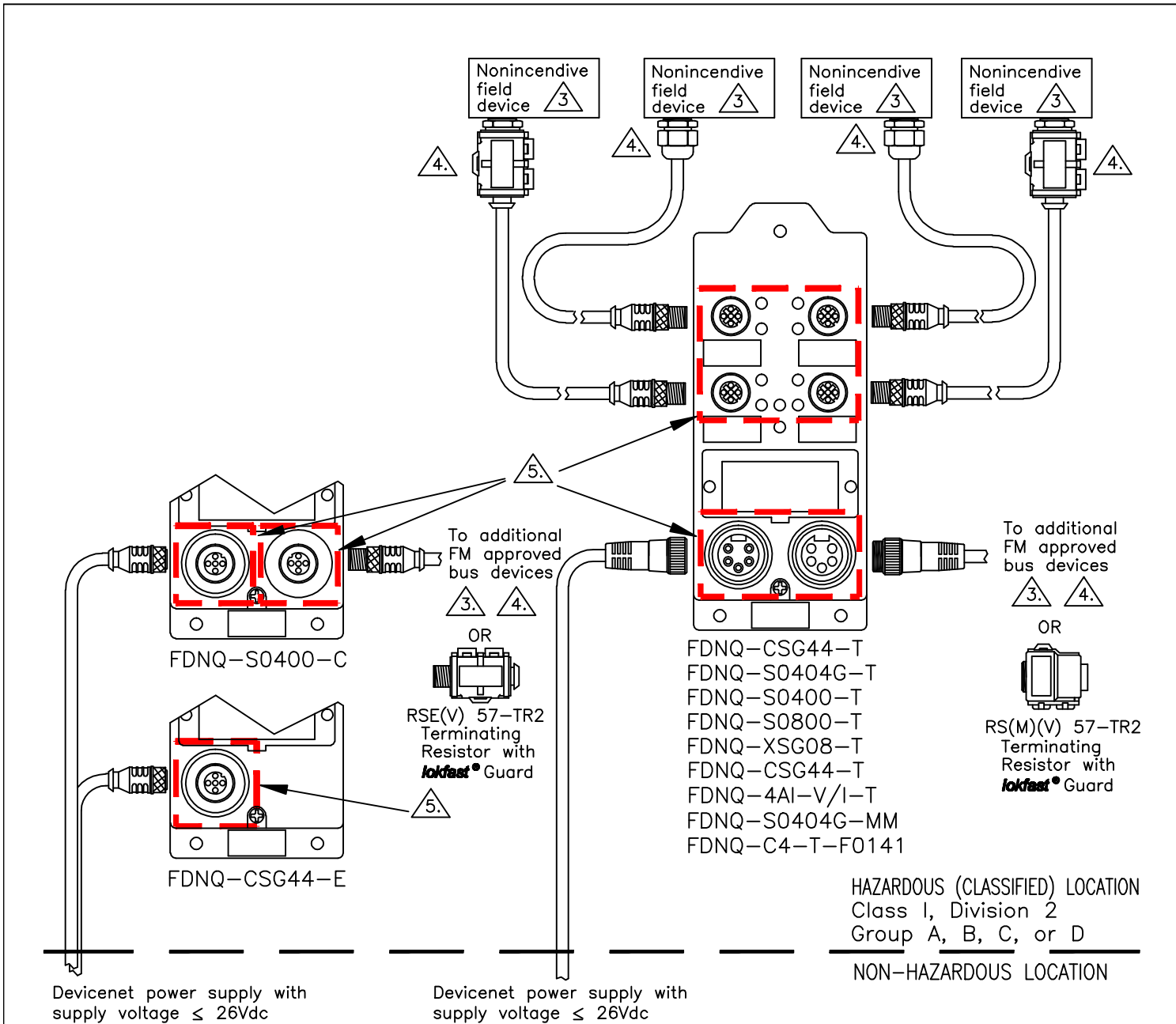
**C**  
I/O Ports

**D**  
**eurofast**® Bus Ports

Use with straight or right angle connectors

Use with straight connectors only

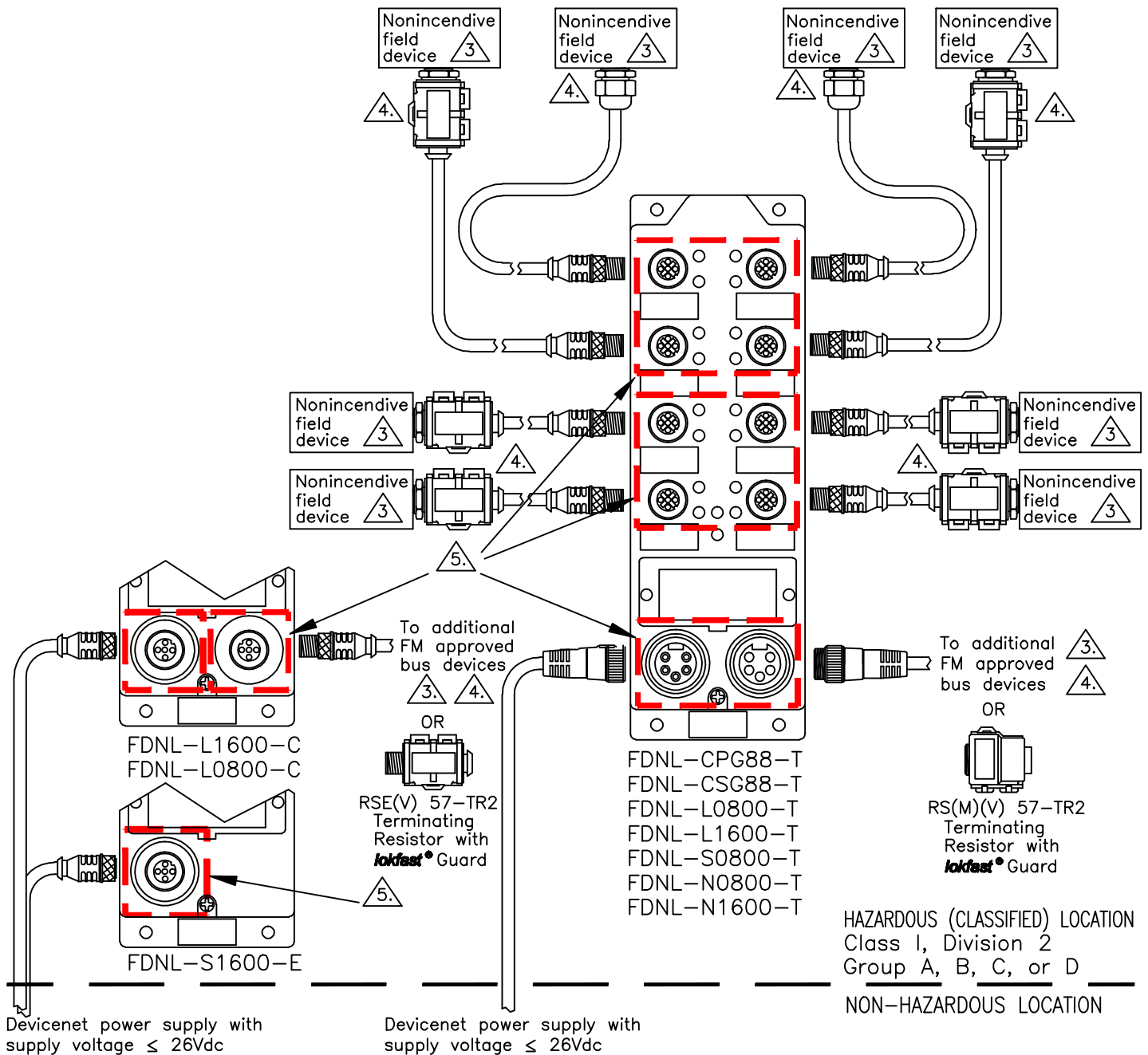
<b>lokfast</b> ® kit	For Use on Models:	Configuration	Kit Contents
LOCK-FP-T	FDNP-L0404G-TT, FDNP-S0808G-TT, FDNP-L0808G-TT, FDNP-XSG16-TT, FDNP-1204G-TT, FDNP-CPG88-TT, FDNP-S0404G-TT, FDNP-CSG88-TT		1 A 1 B 2 C
LOCK-FL-T	FDNL-CPG88-T, FDNL-S0800-T, FDNL-CSG88-T, FDNL-N0800-T, FDNL-L0800-T, FDNL-N1600-T, FDNL-L1600-T, FDNL-S1600-T		1 A 2 C
LOCK-FQ-T	FDNQ-CSG44-T, FDNQ-XSG08-T, FDNQ-S0404G-T, FDNQ-CSG44-T, FDNQ-S0400-T, FDNQ-4AI-V/I-T, FDNQ-S0800-T, FDNQ-S0404G-MM, FDNQ-C4-T-F0141		1 A 1 C
LOCK-FL-E	FDNL-S1600-E		1 D 2 C
LOCK-FL-C	FDNL-L1600-C, FDNL-L0800-C		2 D 2 C
LOCK-FQ-E	FDNQ-CSG44-E		1 D 1 C
LOCK-FQ-C	FDNQ-S0400-C		2 D 1 C
LOCK-FP-REP	FDN-DN1, REP-DN		2 A



Notes:

1. Wiring methods must be in accordance with Class I, Division 2 wiring practices per the National Electrical Code (NEC), ANSI/NFPA 70, Article 501.4(B).
2. All connecting cords must be constructed with ITC and/or PLTC rated cable and be one of the types identified on Sheet 1, Note 2. They may be extension cordsets or single-ended cordsets (see Note 4).
3. Field devices must be FM approved for use in Class I, Division 2 hazardous (classified) locations and be rated for ≥ 26V.
4. Connection at the field device may be made using a Device Gland Receptacle indicated on Sheet 1, Note 3, or it may be made using entry fittings suitable for Class I, Division 2 and connected to internal terminals. For connectors at the field device, use **lokfast**® guards as follows:
  - for molded **euromast**® connectors, use SHIELD-EURO ● for field wirable **euromast**® connectors, use SHIELD-EURO-FW
  - for molded **minifast**® connectors, use SHIELD-MINI ● for field wirable **minifast**® connectors, use SHIELD-MINI-FW
5. All connectors at the FDNQ-.... stations must be secured using the appropriate **lokfast**® guard, as shown on Sheet 2.
6. Unused I/O ports must be filled with a VZ-3 closure cap.
7. Straight connectors shown at the FDNQ-.... station may be replaced with right angle types.

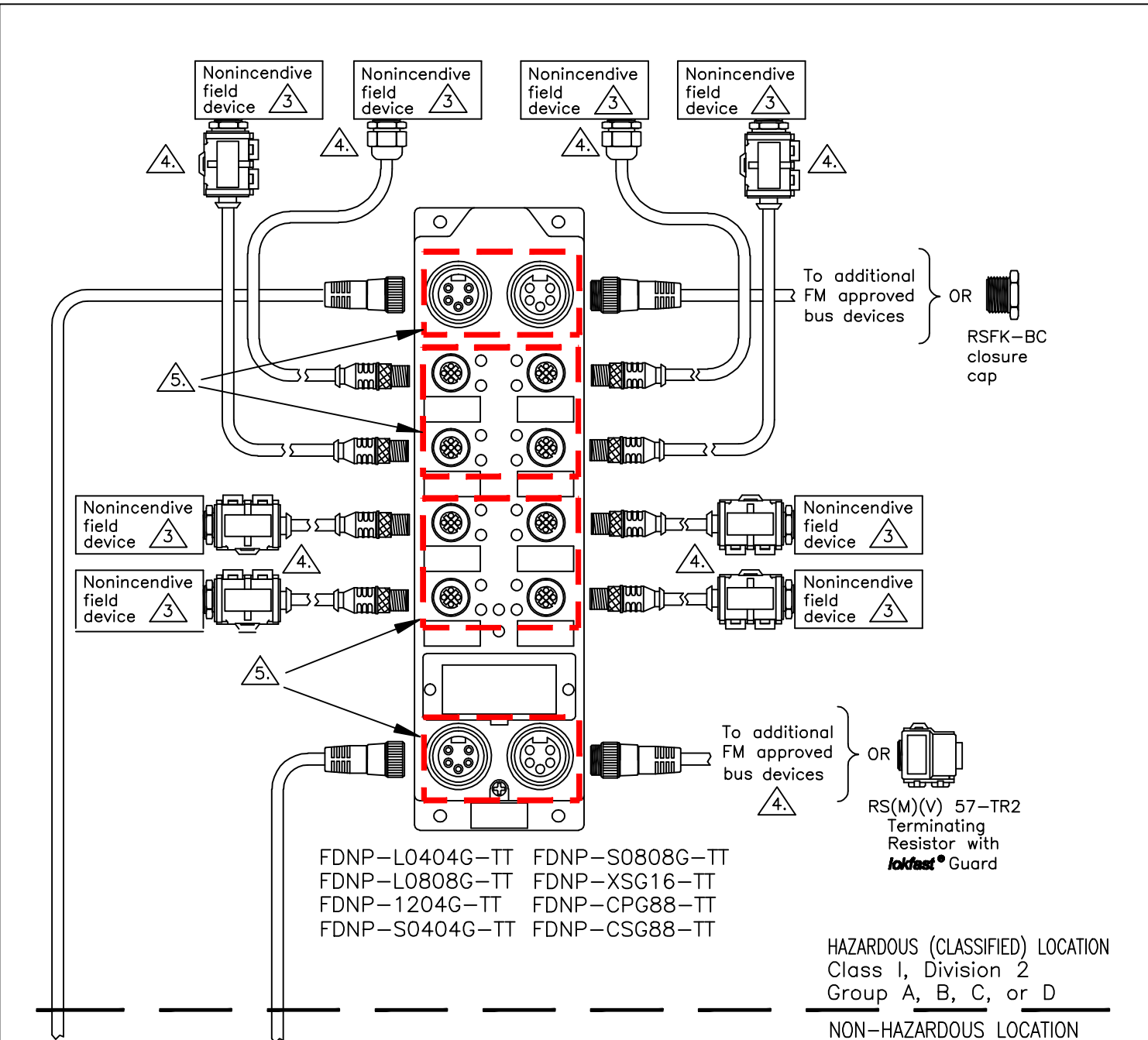
B	Add FDNQ-C4-T-F0141 and FDNQ-4AI-V/I-T, correct I/O cordset and receptacle requirements	BVL	11/10/08	Drawing No.: NI-1.004
Rev	Description	Drft	Date	Scale: NONE <span style="float: right;">Sheet 3 of 6</span>



Notes:

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  - for molded **eurofast** connectors, use SHIELD-EURO
  - for field wirable **eurofast** connectors, use SHIELD-EURO-FW
  - for molded **minifast** connectors, use SHIELD-MINI
  - for field wirable **minifast** connectors, use SHIELD-MINI-FW
5. All connectors at the FDN-.... stations must be secured using the appropriate **lokfast** guard, as shown on Sheet 2.
6. Unused I/O ports must be filled with a VZ-3 closure cap.
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B	Add FDNQ-C4-T-F0141 and FDNQ-4AI-V/I-T, correct I/O cordset and receptacle requirements	BVL	11/10/08	Drawing No.:	NI-1.004
Rev	Description	Drft	Date	Scale:	NONE
				Sheet	4 of 6

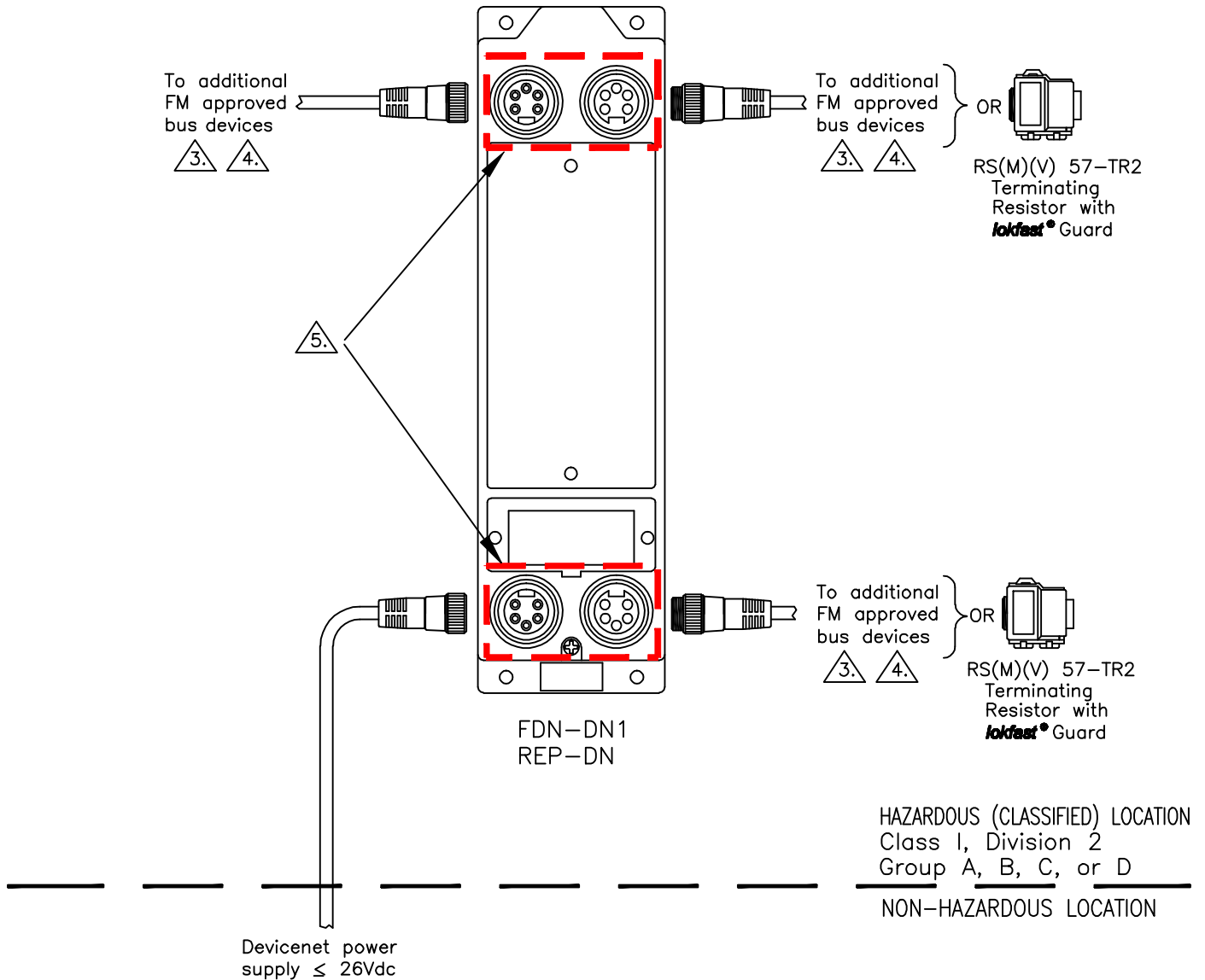


Auxilliary power supply  $\leq$  26Vdc      Devicenet power supply  $\leq$  26Vdc

Notes:

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  - for molded **minifast**® connectors, use SHIELD-MINI
  - for field wirable **minifast**® connectors, use SHIELD-MINI-FW
5. All connectors at the FDN-.... stations must be secured using the appropriate **lokfast**® guard, as shown on Sheet 2.
6. Unused I/O ports must be filled with a VZ-3 closure cap.
7. Straight connectors shown at the FDN-... station may be replaced with right angle types.

B	Add FDNQ-C4-T-F0141 and FDNQ-4AI-V/I-T, correct I/O cordset and receptacle requirements	BVL	11/10/08	Drawing No.:	NI-1.004
Rev	Description	Drft	Date	Scale: NONE	Sheet 5 of 6



Notes:

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B	Add FDNQ-C4-T-F0141 and FDNQ-4AI-V/I-T, correct I/O cordset and receptacle requirements	BVL	11/10/08	Drawing No.: NI-1.004	
Rev	Description	Drft	Date	Scale: NONE	Sheet 6 of 6