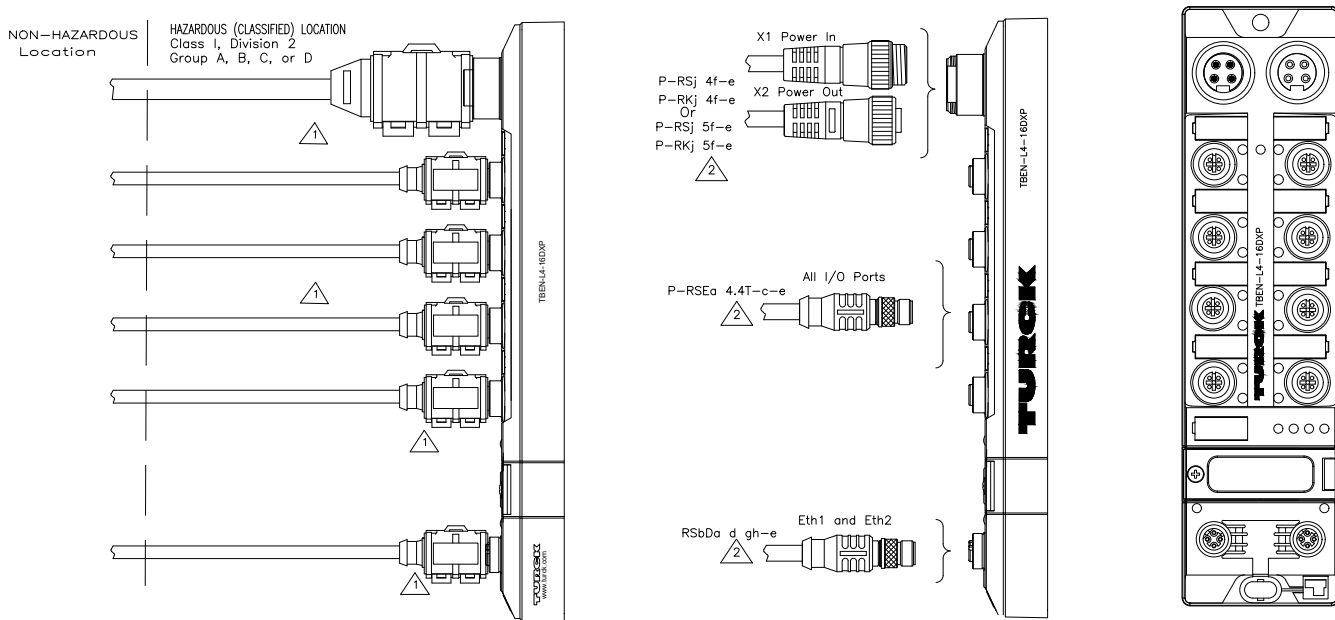


Models:

TBEN-L4-16DOP, TBEN-L4-16DXP, TBEN-L4-16DIP, TBEN-L4-8DOP-8DIP, TBEN-L4-8IOL, TBEN-L4-EN1

TBEN-L5-16DOP, TBEN-L5-16DXP, TBEN-L5-16DIP, TBEN-L5-8DOP-8DIP, TBEN-L5-8IOL, TBEN-L5-EN1



Power supply with voltage $\leq 30Vdc$

NON-HAZARDOUS Location

Ethernet master or switch

Power To additional FM approved device

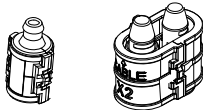
X2 Power In

HAZARDOUS (CLASSIFIED) LOCATION
Class I, Division 2
Group A, B, C, or D

To additional FM approved ethernet devices

Notes:

1. All quick-disconnect connections in the hazardous location must be using a LOCK-EURO-C **lokfast** guard or a LOCK-MINI-DUAL **lokfast** guard.



2. TBEN Ethernet Multiprotocol Fieldbus Stations are designed to be mounted directly in Class I Division 2 locations and connected using FM approved Turck quick-disconnect cords detailed in Turck Control Drawing QCF-00147 for X1 power in X2 power out and I/O ports. The models shown are for single-ended cords appropriate for connection to the TBEN ports, through double-ended extensions detailed in the Control Drawings may be used to interconnect with other FM Approved devices.

P-RKEa 4.5T-c-e-RSEa 4.5T — Male-Female M12 extension cord for Aux power ports and I/O ports, ITC cable, 5 conductor

RSbDa RSbDa 441-e — Male-Male D-code M12 extension cord for Ethernet ports, ITC, CAT5e, 2 UTP

RSbDa RJ45d 441-e — Male M12-RJ45 extension cord for Ethernet ports, Teal ITC, CAT5e, 2 UTP *

P-RKj 5f-eFemale Minifast extension cord for device power out

P-RSj 5f-eMale Minifast extension cord for device power in

Model Codes a = Material V or blank

b = S (shielded) or C (unshielded)

c = 4-digit TC Cable designation

d = RJ connector (nonhazardous location) options S, M, IP67 or blank

e = Cable length in meters

f = Minifast Connection/color code : 0,1,2,3...9

e = Ethernet type 420, 423 or 444

h = jacket color GY, BK, BU, OR, or blank

j = M, Nickel plated brass or V, Stainless Steel

3. All unused connections must be secured by a LOCK-EURO-C **lokfast** and/or LOCK-MINI-DUAL **lokfast** and proper plug detailed below.

For unused I/O connections, use RSE 4.5T or RSEV 4.5T. For unused 'Eth2' connections, use RSCD-44T or RSCDV-44T. For unused 'X2' connections, use RSM 40 or RSM 50.



4. Field devices must be FM approved for use in Class I, Division 2

hazardous (classified) locations and be rated for $< 30V$.

1. Wiring methods must be in accordance with Class I, Division 2 wiring practices per the National Electric Code (NEC) ANSI/NFPA 70.

4. CAUTION: When the ambient temperature is greater than $55^{\circ}C$, the surface may be too hot ($> 80^{\circ}C$) to touch.

Drawing No.:

NI-2.601

TURCK
3000 Campus Drive
Plymouth, MN 55441
Phone: (763) 553-7300

Title: Installation of FM Approved
TBEN-..-.....Ethernet
Multiprotocol Stations

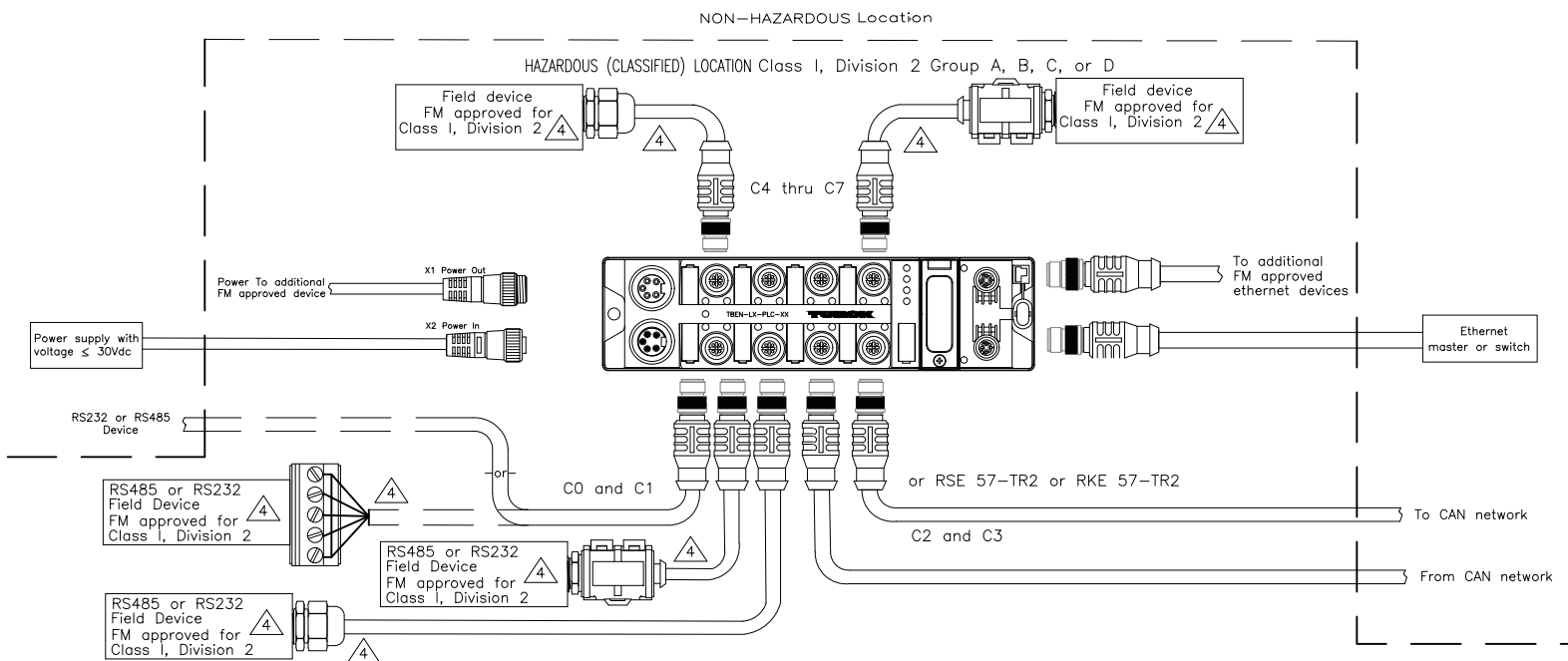
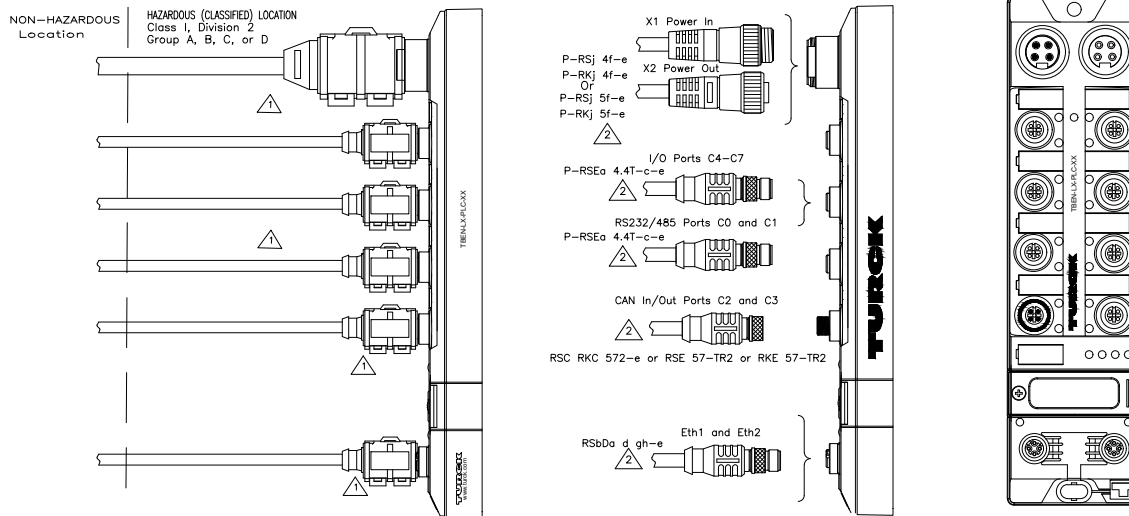
Scale: NONE

Sheet 1 of 3

C	Added new models and corrected PLC models	TKM	10/14/2020
B	Add proper cables and termination plug part numbers	TKM	4/24/2019
Rev	Description	Drft	Date

Models:

TBEN-L4-PLC-10, TBEN-L4-PLC-11, TBEN-L5-PLC-10 and TBEN-L5-PLC-11



Notes: 1 All quick-disconnect connections in the hazardous location must be using a LOCK-EURO-C **lokfast**® guard or a LOCK-MINI-DUAL **lokfast**® guard.

2 TBEN Ethernet Multiprotocol Fieldbus Stations are designed to be mounted directly in Class 1 Division 2 locations and connected using FM approved Turck quick-disconnect cords detailed in Turck Control Drawing QCF-00147 for X1 power in, X2 power out and I/O ports. The Can In, Can Out and Ethernet FM approved quick-disconnect cords are detailed in Turck Control Drawing NI-2.401. The models shown are for single-ended cords appropriate for connection to the TBEN ports, though double-ended extensions detailed in the Control Drawings may be used to interconnect with other FM Approved devices.

P-RKEa 4.5T-c-e-RSEa 4.5T — Male-Female M12 extension cord for Aux power ports and I/O ports, ITC cable, 5 conductor
RSbDa RSbDa 441-e — Male-Male D-code M12 extension cord for Ethernet ports, ITC, CAT5e, 2 UTP
RSbDa RJ45d 441-e — Male M12-RJ45 extension cord for Ethernet ports, Teal ITC, CAT5e, 2 UTP *
P-RKj 5f-e — Female Minifast extension cord for device power out
P-RSj 5f-e — Male Minifast extension cord for device power in
RKC a 57k-e — Female Network Can IN.
RSC a 57k-e — Male Network Can OUT.

Model Codes
a = Material V or blank e = Cable length in meters
b = S (shielded) or C (unshielded) f = Minifast Connection/color code : 0,1,2,3...9
c = 4-digit TC Cable designation e = Ethernet type 420, 423 or 444
d = RJ connector (nonhazardous location) options S, M, IP67 or blank

h = jacket color GY, BK, BU, OR, or blank
j = M, Nickel plated brass or V, Stainless Steel
k = Cable designator 1-, 2-, or 3 character alpha numeric code

3. All unused connections must be secured by a LOCK-EURO-C **lokfast**® and/or LOCK-MINI-DUAL **lokfast**® and proper plug detailed below.
For unused I/O connections, use RSE 4.5T or RSEV 4.5T. For unused 'Eth2' connections, use RSCDV-44T. For unused 'X2' connections, use RSM 40 or RSM 50.



For unused 'Can In Can Out' connections, use RKE 57-TR2 or RSE 57-TR2.



4 Field devices must be FM approved for use in Class I, Division 2

hazardous (classified) locations and be rated for < 30VDC.

5. Wiring methods must be in accordance with Class I, Division 2 wiring practices per the National Electric Code (NEC) ANSI/NFPA 70.

6. **CAUTION:** When the ambient temperature is greater than 55°C, the surface may be too hot (> 80°C) to touch.

Drawing No.:

NI-2.601

TURCK
3000 Campus Drive
Plymouth, MN 55441
Phone: (763) 553-7300

Title: Installation of FM Approved
TBEN-..-.....Ethernet
Multiprotocol Stations

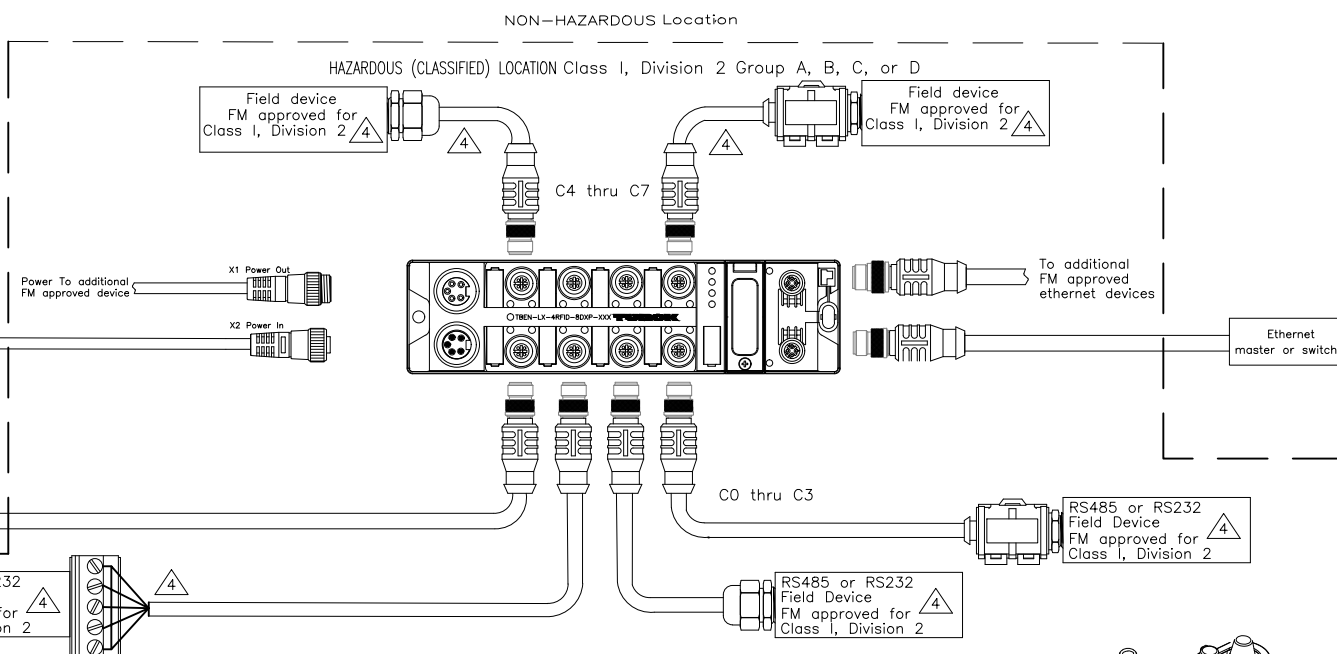
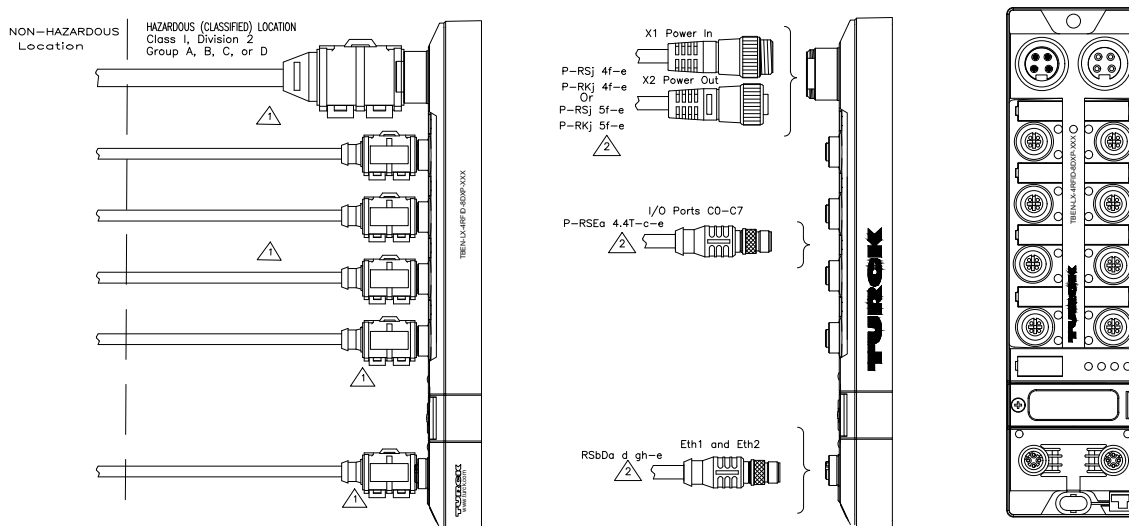
Scale: NONE

Sheet 2 of 3

C	Added new models and corrected PLC models	TKM	10/14/2020
Rev	Description	Drft	Date

Models:

TBEN-L4-4RFID-8DXP, TBEN-L4-4RFID-8DXP-CDS, TBEN-L4-4RFID-8DXP-CDS-WV, TBEN-L4-4RFID-8DXP-WIN, TBEN-L4-4RFID-8DXP-LNX, TBEN-L4-4RFID-8DXP-OPC-UA
TBEN-L5-4RFID-8DXP, TBEN-L5-4RFID-8DXP-CDS, TBEN-L5-4RFID-8DXP-CDS-WV, TBEN-L5-4RFID-8DXP-WIN, TBEN-L5-4RFID-8DXP-LNX, TBEN-L5-4RFID-8DXP-OPC-UA



Notes: 1. All quick-disconnect connections in the hazardous location must be using a LOCK-EURO-C **lokfast**® guard or a LOCK-MINI-DUAL **lokfast**® guard.

2. TBEN Ethernet Multiprotocol Fieldbus Stations are designed to be mounted directly in Class 1 Division 2 locations and connected using FM approved Turck quick-disconnect cords detailed in Turck Control Drawing QCF-00147 for X1 power in, X2 power out and I/O ports. The Ethernet FM approved quick-disconnect cords are detailed in Turck Control Drawing NI-2.401. The models shown are for single-ended cords appropriate for connection to the TBEN ports, though double-ended extensions detailed in the Control Drawings may be used to interconnect with other FM Approved devices.

P-RKEa 4.5T-c-e-RSEa 4.5T — Male-Female M12 extension cord for Aux power ports and I/O ports, ITC cable, 5 conductor
RSbDa RSbDa 441-e — Male-Male D-code M12 extension cord for Ethernet ports, ITC, CAT5e, 2 UTP
RSbDa RJ45d 441-e — Male M12-RJ45 extension cord for Ethernet ports, Teal ITC, CAT5e, 2 UTP *
P-RKj 5f-e — Female Minifast extension cord for device power out
P-RSj 5f-e — Male Minifast extension cord for device power in

Model Codes a = Material V or blank d = RJ connector (nonhazardous location) options S, M, IP67 or blank e = Ethernet type 420, 423 or 444
b = S (shielded) or C (unshielded) e = Cable length in meters h = jacket color GY, BK, BU, OR, or blank
c = 4-digit TC Cable designation f = Minifast Connection/color code : 0,1,2,3...9 j = M, Nickel plated brass or V, Stainless Steel

3. All unused connections must be secured by a LOCK-EURO-C **lokfast**® and/or LOCK-MINI-DUAL **lokfast**® and proper plug detailed below.

For unused I/O connections, use RSE 4.5T or RSEV 4.5T. For unused 'Eth2' connections, use RSCD-44T or RSCDV-44T. For unused 'X2' connections, use RSM 40 or RSM 50.



4. Field devices must be FM approved for use in Class 1, Division 2 hazardous (classified) locations and be rated for < 30VDC.

5. Wiring methods must be in accordance with Class 1, Division 2 wiring practices per the National Electric Code (NEC) ANSI/NFPA 70.

6. **CAUTION:** When the ambient temperature is greater than 55°C, the surface may be too hot (> 80°C) to touch.

Drawing No.:

NI-2.601

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Phone: (763) 553-7300

Title: Installation of FM Approved
TBEN-..-.....Ethernet
Multiprotocol Stations

Scale: NONE

Sheet 3 of 3

C	Added new models and corrected PLC models	TKM	10/14/2020
Rev	Description	Drft	Date