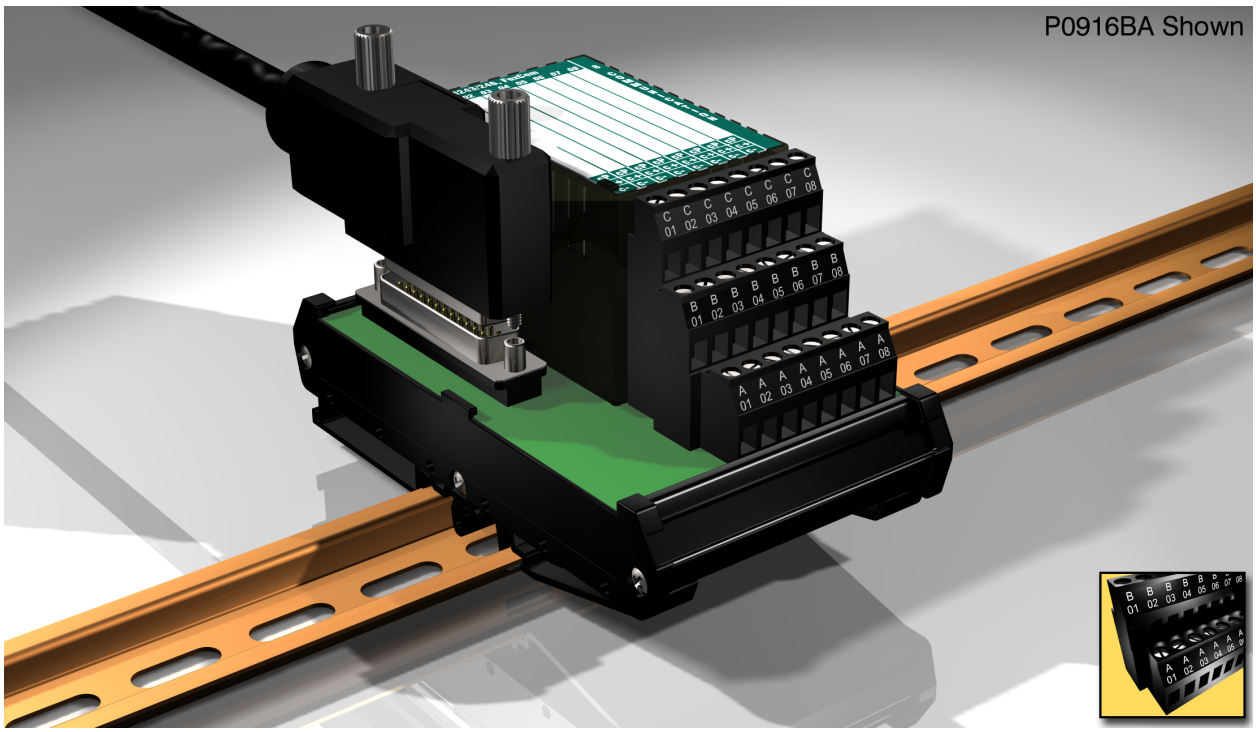
FOXBORO®

PSS 21H-2W66 B4

I/A Series® Hardware
FBM243/246 Termination Assembly
8 FoxCom™ Communication



INTRODUCTION

The FBM243/246 FoxCom Termination Assembly is part of the FBM200 DIN Rail subsystem field wiring termination family.

Each FBM243/246 FoxCom Termination Assembly and its associated termination cable provides feedthrough interconnection between eight 2-wire Intelligent Field Device (IFD) signals and the FBM243 FoxCom Dual Baud Rate Intelligent Device Interface Module or the FBM246 FoxCom Redundant Dual Baud Rate Intelligent Device Interface Module.

For redundant FoxCom applications, a pair of FBM246s and a redundant adapter (Foxboro P/N P0917VU) are required (refer to PSS 21H-2Z46 B4).

This Termination Assembly contains a built-in 51 Ω resistor, to provide sufficient loop resistance to allow use of the Hand-Held Terminal (PSS 2A-1Z3 A), or PC20 Intelligent Field Device Configurator (PSS 2A-1Z3 E).

In applications that use external loop power, Cable Balun Modules (Foxboro P/N P0903SV) are required.

FEATURES

Key features include:

- Combination foot that supports 32 or 35 mm DIN rail mounting
- Multiple, integrated marking systems
- Distinct family group color
- Passive, except for 51 Ω in-circuit resistor (no additional in-circuit components)
- 3-tier termination for per channel internal and/or external loop powered IFDs

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Product Specifications

FUNCTIONAL SPECIFICATIONS

Signal Input/Output
8 channel FoxCom communication
Passive feedthrough (except for 51 Ω in-circuit resistor) with FBM243 or FBM246 channel Isolation

Loop Power
INTERNAL
Supplied by FBM
EXTERNAL
Cable Balun Modules required (Foxboro P/N P0903SV)

Simplified Schematic
Refer to FBM200 Series Termination Assembly Overview, Product Specification Sheet PSS 21H-2W4 B3.

Termination Cable Connection
25-pin male D-subminiature connection

Termination Cable Type(a)
Type 1

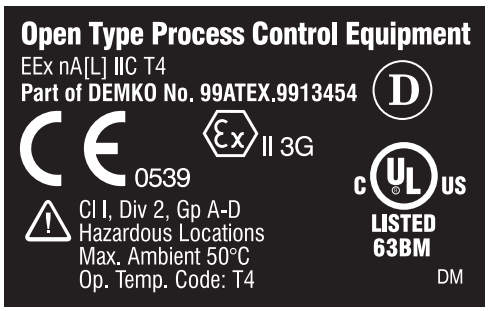
Family Group Color
Green - Communications

(a) Refer to FBM200 Series Termination Cables, Product Specification Sheet PSS 21H-2W4 B4, for complete information.

ENVIRONMENTAL SPECIFICATIONS

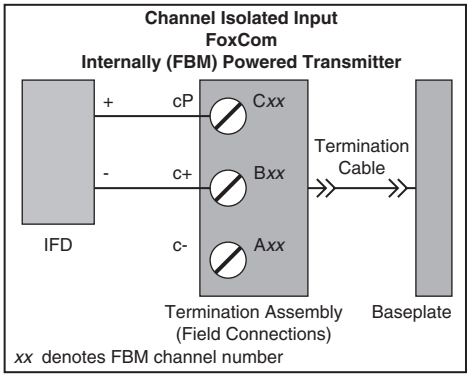
Temperature(a)
PVC
-20 to +50°C (-4 to +122°F)

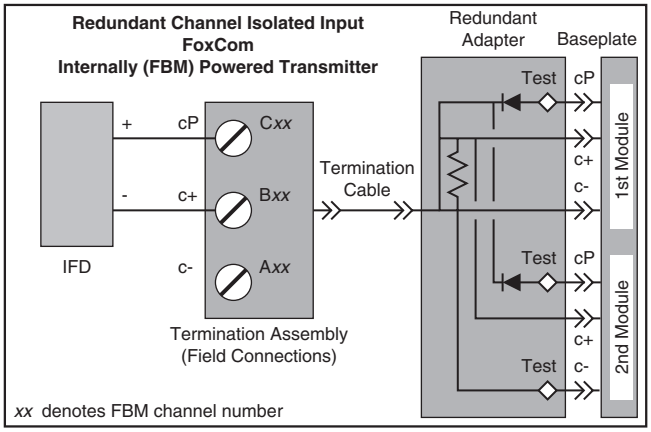
Certification(b)
Classification Type 1, 2

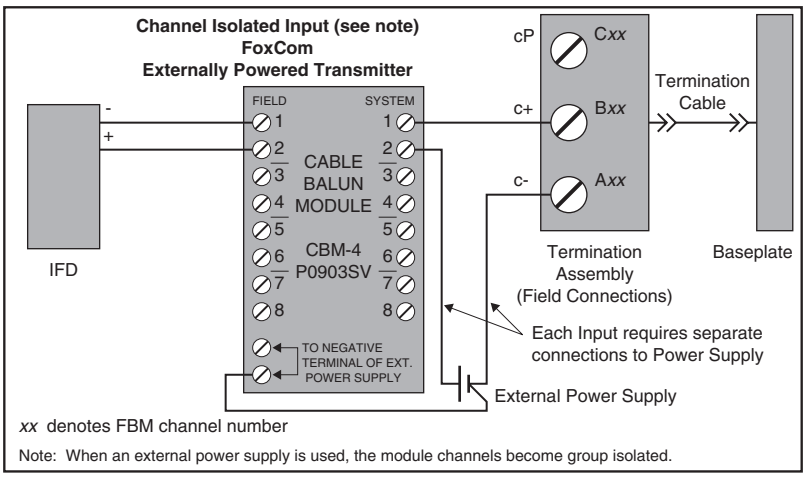


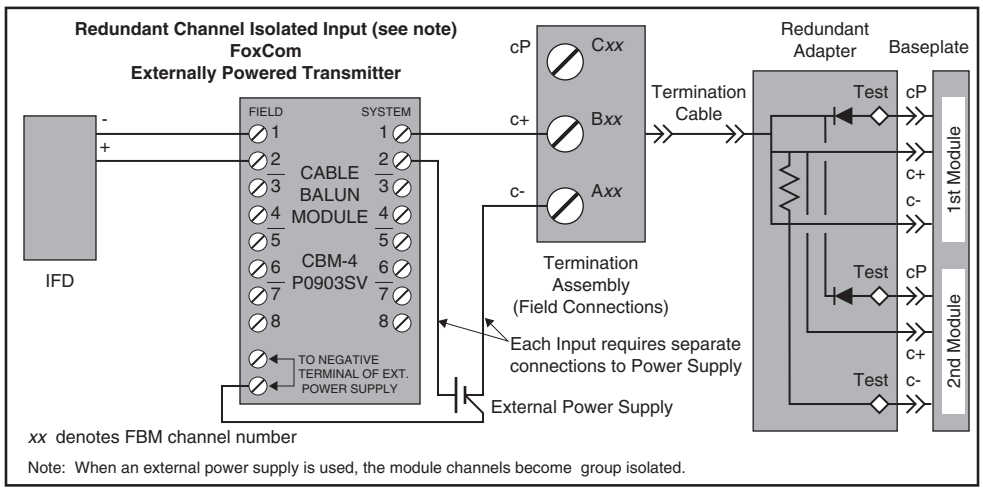
(a) Refer to FBM200 Series Termination Assembly Overview, Product Specification Sheet PSS 21H-2W4 B3, for additional information.
(b) Refer to DIN Rail Mounted FBM Equipment, Agency Certification, Product Specification Sheet PSS 21H-2W2 B3, for complete product certification information.

WIRING DIAGRAMS









PHYSICAL SPECIFICATIONS

Construction(a)
P0916BA – PVC, compression

Mass
181 g (0.4 lb)

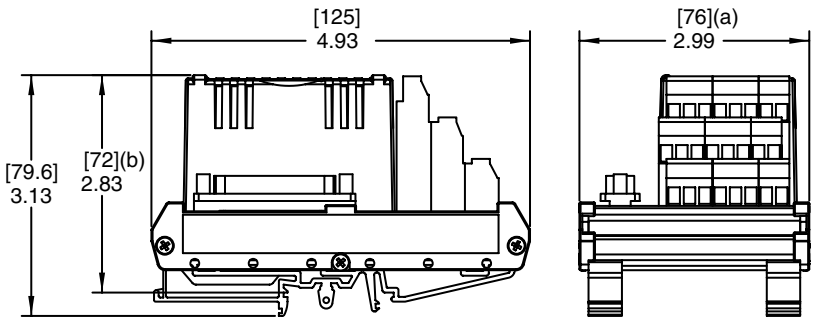
Dimensions
See DIMENSIONS–NOMINAL

Field Terminations(a)
3 tiers, 8 positions

(a) Refer to FBM200 Series Termination Assembly Overview, Product Specification Sheet PSS 21H-2W4 B3, for additional information.

DIMENSIONS - NOMINAL

[mm]
in



(a) Overall width – for determining DIN rail loading.
(b) Height above DIN rail (add to DIN rail height for total).

RELATED PRODUCT SPECIFICATION SHEETS (PSS)

PSS Number	Description
PSS 21H-2W4 B3	FBM200 Series Termination Assembly Overview
PSS 21H-2W4 B4	FBM200 Series Termination Cables
PSS 21H-2W65 B4	FBM243/246 Termination Assembly - 8 FoxCom Communication — External Intrinsic Safety Barrier
PSS 21H-2W1 B3	DIN Rail Mounted FBM Subsystem Overview
PSS 21H-2W2 B3	DIN Rail Mounted FBM Equipment, Agency Certification
PSS 21H-2Z43 B4	FoxCom Dual Baud Rate Intelligent Device Interface Module (FBM243)
PSS 21H-2Z46 B4	FoxCom Redundant Dual Baud Rate Intelligent Device Interface Module (FBM246)
PSS 2A-1Z3 A	Hand-Held Terminal
PSS 2A-1Z3 E	PC20 Intelligent Field Device Configurator

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