# Foxboro™ DCS

## Standard and Compact 200 Series I/O - Agency Certifications

## PSS 41H-2CERTS

**Product Specification**

**April 2020**

https://www.se.com

# Legal Information

# Overview

*Standard and Compact 200 Series I/O equipment is safety certified by authorized agencies as specified herein.*

This document describes the certifications for Standard and Compact 200 Series equipment, including:

- Certifications for 200 Series Baseplates
- Certifications for Power Supply
- Certifications for Field Control Processors (FCP) and Control Network Interface (CNI)
- Certifications for Fieldbus Modules (FBMs)
- Certifications for Fieldbus Communications Modules (FCMs)
- Certifications for Termination Assemblies (TAs)

## Features

Standard and Compact 200 Series I/O equipment is DIN-rail mounted and enclosure based. This equipment has these safety certifications:

- Underwriters Laboratories (UL®) listing for US (NRTL) and Canadian (UL-C) requirements for both ordinary and, where applicable, Hazardous Locations
- European Union (EU) CE Marked in compliance with the Low Voltage Directive, the EMC Directive, and where applicable, the ATEX Directive
- Bureau Veritas Marine Certified for Environmental Category EC31C (unless otherwise specified in this PSS)
- European EMC Directive 2014/30/EU Meets: EN61326:2013 Class A Emissions and Industrial Immunity levels
- ABS Marine Type Approved (Unless otherwise specified in this PSS)

# Certifications for Standard and Compact 200 Series Baseplates

Table 1 identifies the certifications for the *Standard 200 Series Baseplates* (refer to PSS 41H-2SBASPLT) and the *Compact 200 Series Baseplate* (refer to PSS 41H-2C200).

**Table 1 - Certifications for 200 Series Baseplates**

| Module | Description |
|---|---|
| Standard 200 Series Baseplates | Component for containing FCPs, FBMs, and FCMs. |
| Compact 16–Slot Baseplates | Component for containing Compact 200 Series Fieldbus Modules. |
| **Underwriters Laboratories (US and Canadian Certification)** | |
| UL/UL-C listed as suitable for use in Class I; Groups A-D; Division 2 temperature code T4 enclosure-based systems. Conditions of use are as specified in the *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). | |
| **ATEX (DEMKO)** | |
| ATEX certified Ex nA IIC T4 Gc for use in Zone 2 enclosure-based systems. Conditions of use are as specified in *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). Comply with ATEX directive for II 3 G use.<br><br>ABS Type Approved and Bureau Veritas Marine Certification for Environmental Category EC31. | |

## Certifications for Power Supplies

The Compact Power Supply - FPS480-24 - is ATEX qualified, and agency certified for use in Class 1, Division 2 and Zone 2 applications (refer to PSS 41H-2C480 B4).

The FPS480-24 is UL® and UL-C certified to UL60950-1 and UL508 and has IEC/EN 60950 certifications. It is suitable for use in Class I; Groups A-D; Division 2 (Division 2 and Zone 2) hazardous locations with a temperature code of T3.

The FPS400-24 *Standard 200 Series Power Supply* is agency certified for use in Division 2 and Zone 2 applications (refer to PSS 31H-2W3).

The FPS400-24 is UL® certified to UL 60950-1, C-UL 60950, UL 60079-0, and UL 60079-15, provides a Safety Extra Low Voltage Outputs (SELV) and is suitable for use in Class I; Groups A-D; Division 2 (ATEX Zone 2) hazardous locations with a temperature code of T3.

The *Standard 200 Series Power Supplies - FPS240-24 and FPS120-24* are agency certified for use in Class I, Division 2, applications (refer to PSS 31H-2W7).

The FPS240-24 and FPS120-24 are UL® certified to UL 508 and C22.2 No. 107-1-01, UL 60950-1 and C22.2 No. 60950-1, and ANSI / ISA 12.12.01-2007, and C22.2 No. 213-M1987 and is suitable for use in Class I, Division 2, T4 Groups A, B, C, D and Class I, Zone 2 Groups IIA, IIB and IIC (ATEX Zone 2) hazardous locations.

# Certifications for Field Control Processors (FCP) and Control Network Interfaces (CNI)

Table 2 lists the certifications for Field Control Processors (FCPs) and Control Network Interfaces (CNIs).

**Table 2 - Certifications for FCPs and CNIs**

| Module | Description |
|---|---|
| FCP280 | Field Control Processor 280 (RH924YA) (refer to PSS 41H-1FCP280) |
| FCP270 | Field Control Processor 270 (P0917YZ) (refer to PSS 21H-1B9) |
| CNI | Control Network Interface (CNI) (RH100FP) (refer to PSS 41H-1CNI) |
| **Field Control Processor Modules** | |
| There are no direct customer field circuit connections to these modules. All customer connections are made to the associated termination assemblies. | |
| **Underwriters Laboratories (US and Canadian Certification)** | |
| UL/UL-C listed as suitable for use in Class I; Groups A-D; Division 2 temperature code T4 enclosure-based systems. Conditions of use are as specified in the *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). | |
| **ATEX (DEMKO)** | |
| ATEX certified Ex nA IIC T4 Gc for use in ATEX certified Zone 2 enclosure-based systems. Conditions of use are as specified in *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). Comply with ATEX directive for II 3 G use.<br><br>ABS Type Approved and Bureau Veritas Certified for Marine Installations in Environmental Category EC31C, with the exception of the CNI and its associated baseplate. | |

# Certifications for Standard 200 Series Fieldbus Modules (FBMs)

Table 3 lists the FBMs and the table footnotes list the certifications for Fieldbus Modules (FBMs).

**Table 3 - Certifications for Standard 200 Series FBMs**

| Module | Description |
|---|---|
| FBM201/b/c/d | Channel Isolated, Analog Input (0 to 20 mA, 0 to 100 mV, 0 to 5 V, 0 to 10 V dc) Modules |
| FBM202 | Channel Isolated, Thermocouple/mV Input Module |
| FBM203/b/c/d | Channel Isolated, Platinum/Nickel/Copper RTD Input Module |
| FBM204 | Channel Isolated, 0 to 20 mA, I/O Module |
| FBM205 | Redundant, Channel Isolated, 0 to 20 mA, I/O Module |
| FBM206 | Channel Isolated, Pulse Input Module |
| FBM206b | Channel Isolated, Pulse Input/0 to 20 mA Analog Output Interface Module |
| FBM207/b/c | Channel Isolated, Voltage Monitor/Contact Sense Input Module[a] |
| FBM208/b | Channel Isolated, Redundant with Readback, 0 to 20 mA, I/O Module |
| FBM211 | Differential Isolated, Analog Input Module, 0 to 20 mA |
| FBM212 | Differential Isolated, Analog Input Module, Thermocouple |
| FBM214 | 0 to 20 mA, HART® Input Interface Module |
| FBM214b | Channel-Isolated, 0 to 20 mA, HART® Input Interface Module |
| FBM215 | 0 to 20 mA, HART Output Module |
| FBM216 | Redundant 0 to 20 mA, HART Input Interface Module[b] |
| FBM216b | Redundant Channel-Isolated, 0 to 20 mA, HART Input Interface Module |
| FBM217 | Discrete Input Module[a] |
| FBM218 | Redundant 0 to 20 mA, HART Output Module |
| FBM219 | Discrete Input/Output Module[a] |
| FBM220 | FOUNDATION™ fieldbus H1 Communication Interface Module, Single-Channel[b] |
| FBM221 | FOUNDATION fieldbus H1 Communication Interface Module, Four-Channel[b] |
| FBM222 | Redundant PROFIBUS-DP™ Communication Interface Module, Two-Channel[b] |
| FBM223 | PROFIBUS-DP™ Communication Interface Module, Two-Channel[b] |
| FBM224 | Modbus® Communication Module, Four-Port[b] |
| FBM227 | 0 to 10 V dc, Contact/dc I/O Module with DPIDA and MDACT Support |
| FBM228 | Redundant FOUNDATION fieldbus H1 Communication Interface Module, Four-Channel[b] |
| FBM229 | DeviceNet™ Communication Module[b] |
| FBM230 | Field Device System Integrator Modules (FDSI) Four Serial Ports, Single |
| FBM231 | Field Device System Integrator Modules (FDSI) Four Serial Ports, Redundant |

**Table 3 - Certifications for Standard 200 Series FBMs (Continued)**

| Module | Description |
|---|---|
| FBM232 | Field Device System Integrator Modules (FDSI) 10/100 Mbps Ethernet, Single |
| FBM233 | Field Device System Integrator Modules (FDSI) 10/100 Mbps Ethernet, Redundant |
| FBM237 | Channel Isolated, Redundant Ready, 0 to 20 mA, Output Module |
| FBM238 | Group Isolated Discrete 24DI/8DO Module(b) |
| FBM239 | Group Isolated Digital 16DI/16DO Module(a) |
| FBM240 | Channel Isolated, Redundant with Readback, Externally Sourced, Discrete Output Interface Module |
| FBM241/b/c/d | Channel Isolated, Discrete I/O Modules (FBM241/241b/241c/241d)(a) |
| FBM242 | Channel Isolated, Externally Sourced, Discrete Output Module |
| FBM243 | FoxCom™ Dual Baud Rate, Intelligent Device Module(b) |
| FBM243b | FoxCom™ Dual Baud Rate Intelligent Device and 0 to 20 mA Analog Output Interface Module(b) |
| FBM244 | 0 to 20 mA I/O Module with HART® Support |
| FBM245 | Redundant 0 to 20 mA I/O Module with HART® Support |
| FBM246 | FoxCom Redundant Dual Baud Rate, Intelligent Device Module(b) |
| FBM246b | FoxCom Redundant Dual Baud Rate Intelligent Device and 0 to 20 mA Analog Output Interface Module(b) |
| FBM247 | Current/Voltage Analog/Digital/Pulse I/O Configurable Channel Module |
| FBM248 | Redundant Current/Voltage Analog/Digital/Pulse I/O Configurable Channel Module(b) |
| (a) Inputs need to be less than 60 V dc.<br>(b) Not Marine Certified | |
| **Fieldbus Modules** | |
| There are no direct customer field circuit connections to these modules (except FBM232 and FBM233). All customer connections are made to the associated termination assemblies. Safety certification information only applies when these modules are used with specified certified termination assemblies as described in Table 7. FBM232 and FBM233 can be directly connected to customers field circuits and are Class 2 limited energy (see Table 7). | |
| **Underwriters Laboratories (US and Canadian Certification)** | |
| UL/UL-C listed as suitable for use in Class I; Groups A-D; Division 2, temperature code T4 enclosure-based systems. Conditions of use are as specified in *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). | |
| **ATEX (DEMKO)** | |
| ATEX Certified to either Ex nA IIC T4 Gc or Ex nA IIC T5 Gc, depending upon the specific module. FBMs are certified for use in Zone 2 enclosure-based systems of IP54 or greater protection. Conditions of use are as specified in *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). Comply with ATEX directive for II 3 G use. | |
| Marine Certification | |
| Bureau Veritas Certified for Marine Installations in Environmental Category EC31C.<br>ABS Marine Type Approved. | |

# Certifications for Compact 200 Series Fieldbus Modules (FBMs)

Table 4 lists the FBMs and the table footnotes list the certifications for Fieldbus Modules (FBMs).

**Table 4 - Certifications for Compact 200 Series FBMs**

| Module | Description |
|---|---|
| FBM201 | Compact FBM201 Analog Input 0 to 20 mA Interface Module |
| FBM202 | Compact FBM202, Thermocouple/mV Input Interface Module |
| FBM203/c[a]/d[a] | Compact FBM203 Platinum/Nickel/Copper RTD Input Modules |
| FBM204 | Compact FBM204, 0 to 20 mA I/O Interface Module |
| FBM207[a]/b/c[a] | Compact FBM207/b/c Voltage Monitor/Contact Sense Input Interface Modules |
| FBM208[a] | Compact FBM208, Redundant with Readback, 0 to 20 mA I/O Module |
| FBM211 | Compact FBM211, 0 to 20 mA Input Interface Module |
| FBM212[a] | Compact FBM212 Thermocouple/mV Differential Input Module |
| FBM214b | Compact Channel-Isolated, 4 to 20 mA, HART® Input Interface Module |
| FBM214e | Compact FBM214e, 16 Channel 4 to 20mA, HART® Input Module (NAMUR NE43 Compliant) |
| FBM215 | Compact Channel-Isolated 4 to 20 mA, HART Output Interface Module |
| FBM216b | Compact Redundant Channel-Isolated, 4 to 20 mA, HART Input Interface Module |
| FBM217 | Compact FBM217 32 Channel Discrete Input Interface Module |
| FBM218 | Compact Redundant Channel-Isolated, 4 to 20 mA, HART Output Interface Module |
| FBM219[a] | Compact FBM219 Discrete 24DI/8DO Interface Module |
| FBM227[a] | Compact FBM227, 0 to 10 V dc, Contact/dc I/O Module with DPIDA and MDACT Support |
| FBM237 | Compact FBM237, 0 to 20 mA Output Interface Module (Redundant Ready) |
| FBM238[a] | Compact FBM238, Digital 24DI/8DO Module |
| FBM239[a] | Compact FBM239, Digital 16DI/16DO Module |
| FBM240 | Compact FBM240, Redundant Discrete Input and Discrete Output with internal Readback Interface Module |
| FBM241/c[b]/d[a] | Compact FBM241/c/d Discrete I/O Modules |
| FBM242 | Compact Channel Isolated, Externally Sourced, Discrete Output Interface Module |
| FBM247[a] | Current/Voltage Analog/Digital/Pulse I/O Configurable Channel Module |
| FBM248[a] | Current/Voltage Analog/Digital/Pulse I/O Configurable Channel Module, Redundant |
| (a) Not Marine Certified.<br>(b) Inputs need to be less than 60 V dc for FBM241c. | |

**Table 4 - Certifications for Compact 200 Series FBMs (Continued)**

| Module | Description |
|---|---|
| **Fieldbus Modules** | |
| There are no direct customer field circuit connections to these Compact 200 Series Fieldbus modules. All customer connections are made to the associated termination assemblies. Safety certification information only applies when these modules are used with specified certified termination assemblies as described in Table 7. | |
| **Underwriters Laboratories (US and Canadian Certification)** | |
| UL/UL-C listed as suitable for use in Class I; Groups A-D; Division 2, temperature code T4 enclosure-based systems. Conditions of use are as specified in *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). | |
| **ATEX (DEMKO)** | |
| ATEX Certified to either Ex nA IIC T4 Gc or Ex nA IIC T5 Gc, depending upon the specific module. FBMs are certified for use in Zone 2 enclosure-based systems of IP54 or greater protection. Conditions of use are as specified in *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). Comply with ATEX directive for II 3 G use. | |
| **Marine Certification** | |
| All modules Bureau Veritas Certified for Marine Installations in Environmental Category EC31C and ABS Marine Type Approved - with the exception of the Compact FBM203c, FBM203d, FBM207, FBM207c, FBM208, FBM212, FBM214e, FBM219, FBM227, FBM238, FBM239, FBM241d, FBM247, and FBM248. | |

# Certifications for Fieldbus Communications Modules (FCMs)

Table 5 identifies the certifications for the FCMs.

**Table 5 - Certifications for FCMs**

| Module | Description | PSS Number |
|---|---|---|
| FCM10E | Fieldbus Communications Module, 10 Mbps Ethernet, Wire | PSS 21H-2Y1 B3 |
| FCM10Ef | Fieldbus Communications Module,10 Mbps, Fiber Optic | PSS 21H-2Y2 B3 |
| FCM100Et | Fieldbus Communications Module,100 Mbps, Fiber Optic | PSS 21H-2Y10 B4 |
| FCM100E | Fieldbus Communications Module,100 Mbps, Fiber Optic | PSS 21H-2Y11 B4 |
| FCM2F2, FCM2F4, FCM2F10 | Fieldbus Communications Module, 2 Mbps, Fiber Optic | PSS 41H-2FCM |
| **Underwriters Laboratories (US and Canadian Certification)** | | |
| UL/UL-C listed as suitable for use in UL/UL-C listed Class I; Groups A-D; Division 2 temperature code T4 enclosure-based systems. The modules are also UL and UL-C listed as associated apparatus for supplying non-incendive communication circuits for Class I; Groups A-D; Division 2 hazardous locations when connected to specified Foxboro™ DCS processor modules as described in the *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). Communications circuits also meet the requirements for Class 2 as defined in Article 725 of the National Electrical Code (NFPA No. 70) and Section 16 of the Canadian Electrical Code (CSA C22.1). Conditions of use are as specified in *Standard and Compact Subsystem User's Guide* (B0400FA). | | |
| **ATEX (DEMKO)** | | |
| ATEX (DEMKO) certified as Ex nA IIC T4 Gc for use in ATEX certified Zone 2 enclosure-based systems. The modules are ATEX certified as associated apparatus for supplying non-incendive field circuits for Zone 2, Group IIC, potentially explosive atmospheres when connected to specified processor modules as described in *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). Comply with ATEX directive for II 3 G use. | | |

# Certifications for Fieldbus Isolator/Filter 200 (FBI200)

Table 6 identifies the certifications for the FBI200.

**Table 6 - Certifications for FBI200**

| Module | Description | PSS Number |
|---|---|---|
| FBI200 | Fieldbus Isolator/Filter | PSS 341H-2FBI200 |
| **Underwriters Laboratories (US and Canadian Certification)** | | |
| UL/UL-C listed as suitable for use in UL/UL-C listed Class I; Groups A-D; Division 2 temperature code T4 enclosure-based systems. The modules are also UL and UL-C listed as associated apparatus for supplying non-incendive communication circuits for Class I; Groups A-D; Division 2 hazardous locations when connected to specified Foxboro Evo™ Foxboro™ DCS processor modules as described in the *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). Communications circuits also meet the requirements for Class 2 as defined in Article 725 of the National Electrical Code (NFPA No. 70) and Section 16 of the Canadian Electrical Code (CSA C22.1). Conditions of use are as specified in *Standard and Compact Subsystem User's Guide* (B0400FA). | | |
| **ATEX (DEMKO)** | | |
| ATEX (DEMKO) certified as Ex nA IIC T4 Gc for use in ATEX certified Zone 2 enclosure-based systems. | | |

# Certifications for Termination Assemblies

Table 7 lists the type of certifications for the termination assemblies for standard 200 Series FBMs and the table footnotes identify the certification types.

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| **0 to 20 mA Inputs/Outputs** | | | | | | |
| 0 to 20 mA | 8 | | 0 | P0916AA<br>P0916AB<br>RH916XG<br>P0917JK | FBM201 | 1, 2 |
| 0 to 100 mV | 8 | | 0 | RH922ZM | FBM201b | 1, 2 |
| 0 to 5 V | 8 | | 0 | RH922ZN | FBM201c | 1, 2 |
| 0 to 10 V | 8 | | 0 | RH922ZP<br>P0926SQ | FBM201d | 1, 2 |
| 0 to 320 ohm | Two sets of 8 | | 0 | RH924WN(b) | FBM203 | 1, 2 |
| 0 to 640 ohm | 8 | | 0 | P0916AE<br>P0916AF<br>RH916XJ<br>P0917JM | FBM203b | 1, 2 |
| 0 to 640 ohm | Two sets of 8 | | 0 | RH924WN(b) | FBM203b | 1, 2 |
| 0 to 30 ohm | 8 | | 0 | P0916AE<br>P0916AF<br>RH916XJ<br>P0917JM | FBM203c | 1, 2 |
| 0 to 30 ohm | Two sets of 8 | | 0 | RH924WN(b) | FBM203c | 1, 2 |
| 0 to 320 ohm | 8 | | 0 | RH924EX | FBM203d | 1, 2 |
| 0 to 20 mA, External Power | 16 | | 0 | RH916JT<br>P0916PQ | FBM211 | 1, 2 |
| 0 to 20 mA, FBM Power | 16 | | 0 | RH916BT<br>P0916BU | FBM211 | 1, 4 |
| — | 0 | 0 to 20 mA | 8 | P0916CC<br>P0916QC<br>RH917QZ | FBM237 | 1, 2 |

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| 0 to 20 mA | 4 | 0 to 20 mA | 4 | P0916AG<br>P0916AH<br>RH917QW | FBM204 | 1 (4,5 with R-H917-QW) |
| 0 to 20 mA | 4 | 0 to 20 mA | 4 | P0916AJ<br>P0916AK<br>RH916XL<br>P0917JP<br>RH917QW | FBM205 | 1 (4,5 with R-H917-QW) |
| 0 to 20 mA | 4 | 0 to 20 mA | 4 | P0916AJ<br>P0916AK<br>P0917JP | FBM208 | 1, 2 |
| 0 to 20 mA, non-HART or 4-20 mA, HART, over eight channels, each of which can be individually configured for a specific type of field I/O signal, and as either an input or output.<br>Also each channel supports:<br>• 0 to 10 V and 0 to 5 analog input, non-HART<br>• Digital dry contact sense 24 V dc<br>• Discrete voltage monitor, configurable 0 and 1 thresholds 0-10 V<br>• NAMUR sensor discrete input with correct load resistor installed in the loop. Compatible with NAMUR device signal level according to DIN EN 50227 (NAMUR):<br>◦ “On” at 2.1 mA dc with short circuit detection at > 6 mA<br>◦ “Off” at 1.2 mA dc with open detection at <0.25 mA<br>• Pulse count, frequency, acceleration and jerk, contact sense or voltage input<br>• Discrete Output 24 V, 20 mA current or solid state switch output | | | | RH924WW | FBM247 | 1, 2 |
| 0 to 20 mA, non-HART or 4-20 mA, HART, over two sets of eight channels, each of which can be individually configured for a specific type of field I/O signal, and as either an input or output.<br>Also supports:<br>• 0 to 10 V and 0 to 5 V analog input, non-HART<br>• Digital dry contact sense 24 V dc<br>• Discrete voltage monitor, configurable 0 and 1 thresholds 0-10 V<br>• NAMUR sensor discrete input - Signal level according to DIN EN 50227 (NAMUR):<br>◦ “On” at 2.1 mA dc with short circuit detection at > 6 mA<br>◦ “Off” at 1.2 mA dc with open detection at <0.25 mA<br>• Pulse count, frequency, acceleration and jerk, contact sense or voltage input<br>• Discrete Output 24 V, 20 mA current or solid state switch output | | | | RH924WG[b] | FBM247 | 1, 2 |

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| 0 to 20 mA, non-HART or 4-20 mA, HART, over two sets of eight channels, each of which can be individually configured for a specific type of field I/O signal, and as either an input or output.<br>Also supports:<br>• 0 to 10 V and 0 to 5 V analog input, non-HART<br>• Digital dry contact sense 24 V dc<br>• Discrete voltage monitor, configurable 0 and 1 thresholds 0-10 V<br>• NAMUR sensor discrete input - Signal level according to DIN EN 50227 (NAMUR):<br>◦ “On” at 2.1 mA dc with short circuit detection at > 6 mA<br>◦ “Off” at 1.2 mA dc with open detection at <0.25 mA<br>• Pulse count, frequency, acceleration and jerk, contact sense or voltage input<br>• Discrete Output 24 V, 20 mA current or solid state switch output | | | | RH100KR[b] or RH924WW | FBM248 | 1, 2 |
| 0 to 20 mA, HART | 8 | | 0 | P0916BX<br>P0926EA<br>P0926TD | FBM214 | 1, 2 |
| 0 to 20 mA, HART | 8 | | 0 | RH924JH | FBM214b | 1, 2 |
| | 0 | 0 to 20 mA, HART | 8 | P0917XV<br>P0926EK | FBM215 | 1, 2 |
| 0 to 20 mA, HART | 8 | | 0 | P0916BX<br>P0926EA<br>P0926TD | FBM216 | 1, 2 |
| 0 to 20 mA, HART | 8 | | 0 | RH924JH | FBM216b | 1, 2 |
| | 0 | 0 to 20 mA, HART | 8 | P0917XV<br>P0916EK | FBM218 | 1, 2 |
| 4 to 20 mA, HART | 4 | 4 to 20 mA, HART | 4 | RH924QU<br>RH924QZ[a] | FBM244 | 1, 2 |
| 4 to 20 mA, HART | 4 | 4 to 20 mA, HART | 4 | RH924QU<br>RH924QZ[a] | FBM245 | 1, 2 |
| **FOUNDATION™ fieldbus Interface** | | | | | | |
| Single-Channel H1 FOUNDATION fieldbus | | | | P0917RF<br>P0917RG | FBM220 | 1, 4 |
| Four-Channel H1 FOUNDATION fieldbus | | | | P0917RF<br>P0917RG | FBM221 | 1, 4 |
| Redundant Four-Channel H1 FOUNDATION fieldbus | | | | RH922VC | FBM228 | 1, 4[c] |

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| **PROFIBUS-DP Interface** | | | | | | |
| Two-Channel PROFIBUS-DP | | | | P0926TH<br>RH926TJ | FBM222 | 1 |
| Two-Channel PROFIBUS-DP | | | | P0917SY | FBM223 | 5 |
| **Modbus Interface** | | | | | | |
| Four-Port Modbus | | | | P0926GH<br>P0926PA | FBM224 | 5 |
| **Field Device System Interface** | | | | | | |
| RS-232, RS422 or RS485 | 4 | RS-232, RS422 or RS485 | 4 | P0926GH<br>P0926PA | FBM230 | 4 |
| RS-232, RS422 or RS485 | 4 | RS-232, RS422 or RS485 | 4 | P0926GH<br>P0926PA | FBM231 | 4 |
| Ethernet | 1 | 10/100 Mbps Ethernet | 1 | N/A | FBM232 | 4 |
| Ethernet | 1 | 10/100 Mbps Ethernet | 1 | N/A | FBM233 | 4 |
| **DeviceNet Interface** | | | | | | |
| Controller Area Network (CAN) protocol as specified by ODVA for DeviceNet networks at Three selectable speeds: 125, 250 and 500 Kbit/sec depending on network length | 1 | Controller Area Network (CAN) protocol as specified by ODVA for DeviceNet networks at Three selectable speeds: 125, 250 and 500 Kbit/sec depending on network length | 1 | RH926TE | FBM229 | 1 |

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| **Thermocouple/mV Inputs** | | | | | | |
| Thermocouple/mV | 8 | | 0 | P0916AC<br>P0916AD<br>RH916XH<br>P0917JM | FBM202 | 1 |
| Thermocouple/mV | Two sets of 8 | | 0 | RH928CN(b) | FBM202 | 1 |
| Thermocouple/mV | 14 | | 0 | RH916BV<br>P0916BW | FBM212 | 1, 2 |
| **RTD Inputs** | | | | | | |
| RTD (Platinum/Nickel/ Copper) | 8 | | 0 | P0916AE<br>P0916AF<br>RH916XJ<br>P0917JM | FBM203 | 1, 2 |
| RTD (Platinum/Nickel/ Copper) | Two sets of 8 | | 0 | RH924WN(b) | FBM203 | 1, 2 |
| **Pulse Inputs** | | | | | | |
| Pulse | 8 | | 0 | P0916JQ<br>P0916PG<br>RH916XM<br>P0917JQ | FBM206 | 1, 2 |
| Pulse | 4 | 0 to 20 mA | 4 | RH924QN<br>RH924QP | FBM206b | 1, 2 |
| **Contact Inputs/Switch Outputs** | | | | | | |
| 24 V dc Contact | 32 | | 0 | P0916PW<br>P0916PX<br>RH916XZ | FBM217 | 1, 4 |

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| 24 V dc Contact | 16 | | 0 | P0916JS<br>P0916PP | FBM207b | 1, 2 |
| 48 V dc Contact | 16 | | 0 | P0917MF<br>P0917MH<br>RH917MG<br>P0917MJ | FBM207c | 1, 2 |
| 24 V dc Contact | 8 | 15 to 60 V dc at 2 A Switch, unprotected (external source) | 8 | RH916UD<br>P0916SS<br>P0917KY | FBM241c | 1, 2 |
| 24 V dc Contact | 8 | 15 to 60 V dc at 2 A Switch, protected mode (external source) | 8 | RH916JW<br>P0916QP | FBM241c | 1, 2 |
| 24 V dc Contact | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) | 8 | RH916AW<br>P0916AX | FBM241c | 3 |
| 24 V dc Contact | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QQ<br>P0916QR | FBM241c | 3 |
| 24 V dc Contact | 8 | 15 V dc at 15 mA Switch (internal source) | 8 | P0916JX<br>P0916QS<br>RH916YW<br>P0917LA | FBM241d | 1, 2 |
| **0 to 10 V dc Switch Inputs/Switch Outputs** | | | | | | |
| 0 to 10 V dc<br>130 V dc digital inputs, isolated into two groups of two channels each | 4<br>4 | 0 to 10 V dc<br>60 V dc digital outputs, isolated in two groups of two channels each | 2<br>4 | RH924DB/<br>P0924JY | FBM227 | 1, 2 |
| **15 to 60 V dc Switch Inputs/Switch Outputs** | | | | | | |
| 15 to 30 V dc Switch | 32 | | 0 | RH916CA<br>P0916CB | FBM217 | 1, 2 |
| 15 to 30 V dc Switch | 0 | | 16 | RH917LE | FBM219 | 1, 2 |
| 15 to 60 V dc Switch | 16 | | 0 | P0916AL<br>P0916AN<br>RH916XN<br>P0917JR | FBM207 | 1, 2 |
| 15 to 60 V dc Switch | 8 | 15 V dc at 15 mA Switch (internal source) | 8 | RH916JV<br>P0916QN | FBM241b | 1, 2 |

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| 15 to 60 V dc Switch | 0 | 15 to 60 V dc at 0.25 A Switch, protected mode (external source) | 16 | P0916LL | FBM219 | 1, 2 |
| 15 to 60 V dc Switch | 8 | 15 to 60 V dc at 2 A Switch, unprotected (external source) | 8 | RH916UY<br>P0916UZ | FBM241 | 1, 2 |
| 15 to 60 V dc Switch | 8 | 15 to 60 V dc at 2 A Switch, protected mode (external source) | 8 | RH916AQ<br>RH916AR | FBM241 | 1, 2 |
| 15 to 60 V dc Switch | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) | 8 | RH916QE<br>P0916QF | FBM241 | 3 |
| **240 V ac/30 V dc Switch Inputs/Switch Outputs** | | | | | | |
| 120 V ac/125 V dc Switch | 16 | | 0 | P0916AM<br>P0916AP<br>P0917JS | FBM207 | 1 |
| 120 V ac/125 V dc Switch | 32 | | 0 | P0916PS<br>P0916PT<br>RH916YA | FBM217 | 1 |
| 120 V ac/125 V dc Switch (external source) | 32 | | 0 | P0916PY<br>P0916PZ<br>P0917YB | FBM217 | 1 |
| 120 V ac/125 V dc Switch (external source) | 16 | | 0 | RH916PK<br>P0916PL<br>P0917JT | FBM207 | 1 |
| 120 V ac/125 V dc Switch | 8 | 125 V dc at 10 A, or 120 V ac at 10 A Switch (external source) | 8 | RH917YF | FBM240 | 5 |
| 120 V ac/125 V dc Switch | 8 | 120 V ac at 2 A, or 125 V dc at 2 A Switch (external source) | 8 | RH917MX<br>RH926DS | FBM240 | 5 |
| 120 V ac Switch | 8 | 120 V ac at 5 A Switch (external source) | 8 | RH917HU | FBM240 | 5 |
| 120 V ac/125 V dc Switch | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) | 8 | P0916AS<br>P0916AT | FBM241 | 5 |
| 120 V ac/125 V dc Switch | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QG<br>P0916QH | FBM241 | 5 |
| 120 V ac/125 V dc Switch (external source) | 0 | 125 V ac at 2 A, or 125 V dc at 2 A Switch (external source) | 16 | RH926BE<br>RH926DV | FBM219 | 5 |

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| 120 V ac/125 V dc Switch (external source) | 0 | 125 V ac at 5 A, or 125 V dc at 0.6 A Switch (external source) | 16 | P0916LL | FBM219 | 5 |
| 120 V ac/125 V dc Switch (external source) | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) | 8 | RH916QT<br>P0926QU | FBM241 | 5 |
| 120 V ac/125 V dc Switch (external source) | 0 | 125V dc at 0.6 A, or 125 V ac at 5 A Switch (external source) with power distribution | 16 | P0916LP<br>RH917LS<br>RH917LV | FBM219 | 5 |
| 120 V ac/125 V dc Switch (external source) | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QV<br>P0916QW | FBM241 | 5 |
| **240 V ac/30 V dc Switch Inputs/Switch Outputs** | | | | | | |
| 240 V ac Switch | 16 | | 0 | RH916PH<br>P0916PJ | FBM207 | 1 |
| 240 V ac Switch | 32 | | 0 | RH916PU<br>P0916PV | FBM217 | 1 |
| 240 V ac Switch | 8 | 240 V ac at 5 A Switch (external source) | 8 | RH916QJ<br>P0916QK | FBM241 | 5 |
| 240 V ac Switch | 8 | 240 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QL<br>P0916QM | FBM241 | 5 |
| 240 V ac Switch (external source) | 16 | | 0 | RH916PM<br>P0916PN | FBM207 | 1 |
| 240 V ac Switch (external source) | 32 | | 0 | RH916QA<br>P0916QB | FBM217 | 1 |
| 240 V ac Switch (external source) | 8 | 240 V ac at 5 A Switch (external source) | 8 | RH916QX<br>P0916QY | FBM241 | 5 |
| 240 V ac Switch (external source) | 8 | 240 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QZ<br>P0916NZ | FBM241 | 5 |
| **15 to 60 V dc Switch Outputs** | | | | | | |
| | 0 | 15 to 60 V dc at 2 A Switch (external source) | 16 | RH916JY<br>P0916RJ<br>RH917XX | FBM241 | 1, 2 |
| | 0 | 15 to 60 V dc at 2 A Switch (external source) | 16 | RH917HX<br>RH923LH | FBM242 | 1, 4 |

**Table 7 - Certifications for Termination Assemblies for Standard 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | FBM Number | Cert. Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| **30 V dc/240 V ac Switch Outputs** | | | | | | |
| | 0 | 30 V dc at 5 A, or 240 V ac at 5 A Switch (external source) | 16 | P0916NG<br>P0916RK<br>RH923LL | FBM242 | 5 |
| | 0 | 30 V dc at 5 A, or 240 V ac at 5 A Switch (external source) with power distribution | 16 | P0916JZ<br>P0916RL | FBM242 | 5 |
| **FoxCom Dual Baud Rate Intelligent Device Interface** | | | | | | |
| Isolated and Independent Communications Channels | 8 | Isolated and Independent Communications Channels | 8 | P0916BA,<br>RH917XW,<br>RH931KJ | FBM243 | 1, 2 |
| Isolated and Independent Communications Channels | 4 | 0 to 20 mA | 4<br>4 | RH924QQ<br>RH924QY | FBM243b | 1, 2 |
| Isolated and Independent Communications Channels | 8 | Isolated and Independent Communications Channels | 8 | P0916BA,<br>RH917XW,<br>RH931KJ | FBM246 | 1, 2 |
| Isolated and Independent Communications Channels | 4 | 0 to 20 mA | 4<br>4 | RH924QQ<br>RH924QY | FBM246b | 1, 2 |

(a) Termination assembly has four output bypass jacks. It is not suitable for use in any hazardous locations - ordinary locations only.

(b) Baseplate-mounted termination assembly - supports I/O for two of the same FBM type. See associated FBM's PSS for details.

(c) FBM 228 can be alternately configured with third party termination to provide redundant power conditioning and intrinsically safe operation. These third party terminations are connected to the FBM228 with the RH922VC passive termination assembly. In this case, certification is the responsibility of the third party supplier.

Table 8 lists the type of certifications for the termination assemblies for the Compact 200 Series FBMs and the table footnotes identify the certification types.

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| **0 to 20 mA Inputs/Outputs** | | | | | | |
| 0 to 20 mA | 8 | | 0 | P0916AA<br>P0916AB<br>RH916XG<br>P0917JK | FBM201 | 1, 2 |
| 0 to 20 mA | 4 | 0 to 20 mA | 4 | P0916AG<br>P0916AH<br>RH916XK<br>RH917QW | FBM204 | 1, 2 |
| 0 to 20 mA | 4 | 0 to 20 mA | 4 | RH916XL<br>P0917JP | FBM208 | 1, 2 |
| 0 to 20 mA, External Power | 16 | | 0 | RH916JT<br>P0916PQ | FBM211 | 1, 2 |
| 0 to 20 mA, FBM Power | 16 | | 0 | RH916BT<br>P0916BU | FBM211 | 1, 4 |
| 4 to 20 mA, HART | 8 | | 0 | RH924JH | FBM214b | 1, 2 |
| 0 to 20 mA, HART External Power | 16 | | 0 | RH101RT | FBM214e | 1,2 |
| 0 to 20 mA, HART Internal Power | 16 | | 0 | RH101RY | FBM214e | 1,2 |
| | 0 | 4 to 20 mA, HART | 8 | P0917XV<br>P0926EK<br>RH926SP | FBM215 | 1, 2 |
| 4 to 20 mA, HART | 8 | | 0 | RH924JH | FBM216b | 1, 2 |
| | 0 | 4 to 20 mA, HART | 8 | P0917XV<br>P0916EK | FBM218 | 1, 2 |
| | 0 | 0 to 20 mA | 8 | P0916CC<br>P0916QC<br>RH916YE<br>RH917QZ | FBM237 | 1, 2 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| 0 to 20 mA, non-HART or 4-20 mA, HART, over eight channels, each of which can be individually configured for a specific type of field I/O signal, and as either an input or output.<br>Also each channel supports:<br>• 0 to 10 V and 0 to 5 analog input, non-HART<br>• Digital dry contact sense 24 V dc<br>• Discrete voltage monitor, configurable 0 and 1 thresholds 0-10 V<br>• NAMUR sensor discrete input with correct load resistor installed in the loop. Compatible with NAMUR device signal level according to DIN EN 50227 (NAMUR):<br>◦ “On” at 2.1 mA dc with short circuit detection at > 6 mA<br>◦ “Off” at 1.2 mA dc with open detection at <0.25 mA<br>• Pulse count, frequency, acceleration and jerk, contact sense or voltage input<br>• Discrete Output 24 V, 20 mA current or solid state switch output | | | | RH924WW | FBM247 or FBM248 | 1, 2 |
| 0 to 20 mA, non-HART or 4-20 mA, HART, over two sets of eight channels, each of which can be individually configured for a specific type of field I/O signal, and as either an input or output.<br>Also supports:<br>• 0 to 10 V and 0 to 5 V analog input, non-HART<br>• Digital dry contact sense 24 V dc<br>• Discrete voltage monitor, configurable 0 and 1 thresholds 0-10 V<br>• NAMUR sensor discrete input - Signal level according to DIN EN 50227 (NAMUR):<br>◦ “On” at 2.1 mA dc with short circuit detection at > 6 mA<br>◦ “Off” at 1.2 mA dc with open detection at <0.25 mA<br>• Pulse count, frequency, acceleration and jerk, contact sense or voltage input<br>• Discrete Output 24 V, 20 mA current or solid state switch output | | | | RH101KA | FBM248 | 1, 2 |
| **RTD Inputs** | | | | | | |
| 0 to 320 ohm | 8 | | 0 | P0916AE<br>P0916AF<br>RH916XJ<br>P0917JM | FBM203 | 1, 2 |
| 0 to 30 ohm | 8 | | 0 | RH916XJ<br>P0917JM | FBM203c | 1, 2 |
| 0 to 320 ohm | 8 | | 0 | RH924EX | FBM203d | 1, 2 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| **0 to 150 V dc Inputs/Switch Outputs** | | | | | | |
| 132 V ac or 150 V dc Voltage Monitor | 24 | 250 V ac at 5 A Switch, protected mode (external source) | 8 | RH917LP<br>RH917LL | FBM219 | 5 |
| 132 V ac or 150 V dc Contact Sense | 24 | 250 V ac at 5 A Switch, protected mode (external source) | 8 | RH917LS<br>RH917LV | FBM219 | 5 |
| 30 V dc Voltage Monitor | 24 | 60 V ac at 0.25 A Switch, protected mode (external source) | 8 | RH917LE | FBM219 | 1, 2, 4 |
| 24 V dc Contact Sense | 24 | 60 V ac at 0.25 A Switch, protected mode (external source) | 8 | RH917LH | FBM219 | 1, 2, 4 |
| 30 V dc Voltage Monitor | 24 | 60 V ac at 0.25 A Switch, protected mode (external source) | 8 | RH924VD | FBM238 | 1, 2, 4 |
| 24 V dc Contact Sense | 24 | 60 V ac at 0.25 A Switch, protected mode (external source) | 8 | RH924VG | FBM238 | 1, 2, 4 |
| **Thermocouple/mV Inputs** | | | | | | |
| Thermocouple/mV | 8 | | 0 | P0916AC<br>P0916AD<br>RH916XH<br>P0917JL | FBM202 | 1 |
| Thermocouple/mV | 14 | | 0 | RH916BV | FBM212 | 1, 2 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| **Contact Inputs/Switch Outputs** | | | | | | |
| 24 V dc Contact | 16 | | 0 | RH916XT | FBM207b | 1, 2 |
| 48 V dc Contact | 16 | | 0 | RH917MG<br>P0917MJ | FBM207c | 1, 2 |
| 24 V dc Contact | 32 | | 0 | P0916PW<br>P0916PX<br>RH916XZ | FBM217 | 1, 4 |
| 24 V dc Contact | 8 | 15 to 60 V dc at 2 A Switch, protected (external source) | 8 | RH916JW | FBM241c | 1, 2 |
| 24 V dc Contact | 8 | 15 to 60 V dc at 2 A Switch, unprotected mode (external source) | 8 | RH916UD | FBM241c | 1, 2 |
| 24 V dc Contact | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) | 8 | RH916AW | FBM241c | 3 |
| 24 V dc Contact | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QQ<br>P0916QR | FBM241c | 3 |
| 24 V dc Contact | 8 | 15 V dc at 15 mA Switch (internal source) | 8 | RH916YW | FBM241d | 1, 2 |
| **0 to 10 V dc Switch Inputs/Switch Outputs** | | | | | | |
| 0 to 10 V dc<br>130 V dc digital inputs, isolated into two groups of two channels each | 4<br>4 | 0 to 10 V dc<br>60 V dc digital outputs, isolated in two groups of two channels each | 2<br>4 | RH924DB | FBM227 | 1, 2 |
| **15 to 60 V dc Switch Inputs/Switch Outputs** | | | | | | |
| 15 to 60 V dc Switch | 16 | | 0 | RH916XN<br>P0917JR | FBM207 | 1, 2 |
| 15 to 30 V dc Switch | 32 | | 0 | RH916CA<br>P0916CB | FBM217 | 1, 2 |
| 15 to 60 V dc Switch | 8 | 15 to 60 V dc at 2 A Switch, unprotected (external source) | 8 | RH916UY | FBM241 | 1, 2 |
| 15 to 60 V dc Switch | 8 | 15 to 60 V dc at 2 A Switch, protected mode (external source) | 8 | RH916AQ<br>RH916AR | FBM240/ FBM241 | 1, 2 |
| 15 to 60 V dc Switch | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) | 8 | RH916QE | FBM241 | 3 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| **240 V ac/30 V dc Switch Inputs/Switch Outputs** | | | | | | |
| 120 V ac/125 V dc Switch | 16 | | 0 | RH916XP<br>P0917JS | FBM207 | 1 |
| 120 V ac/125 V dc Switch (external source) | 16 | | 0 | RH916PK<br>P0917JT | FBM207 | 1 |
| 120 V ac/125 V dc Switch | 32 | | 0 | P0916PS<br>P0916PT<br>RH916YA | FBM217 | 1 |
| 120 V ac/125 V dc Switch (external source) | 32 | | 0 | P0916PY<br>P0916PZ<br>P0917YB | FBM217 | 1 |
| 120 V ac/125 V dc Switch | 8 | 125 V dc at 5 A or 120 V ac at 10A, or 120 V ac at 10 A Switch (external source) | 8 | RH917YF | FBM240 | 5 |
| 120 V ac Switch | 8 | 120 V ac at 5 A Switch (external source) | 8 | RH917HU | FBM240 | 5 |
| 120 V ac Switch | 8 | 15 to 30 V dc at 5 A Switch (external source) | 8 | RH926SZ | FBM240 | 5 |
| 120 V ac/125 V dc Switch | 8 | 120 V ac at 2 A, or 125 V dc at 2 A Switch (external source) | 8 | RH917MX<br>RH926DS | FBM240/ FBM241 | 5 |
| 120 V ac/125 V dc Switch | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) | 8 | P0916AS<br>P0916AT | FBM241 | 5 |
| 120 V ac/125 V dc Switch | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QG | FBM241 | 5 |
| 120 V ac/125 V dc Switch (external source) | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QV | FBM241 | 5 |
| 120 V ac/125 V dc Switch | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) with power distribution | 8 | RH916YH | FBM241 | 5 |
| 120 V ac/125 V dc Switch (external source) | 8 | 30 V dc at 5 A, or 250 V ac at 5 A Switch (external source) | 8 | RH916QT | FBM241 | 5 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| **240 V ac Switch Inputs/Switch Outputs** | | | | | | |
| 240 V ac Switch | 16 | | 0 | RH916PH | FBM207 | 1 |
| 240 V ac Switch (external source) | 16 | | 0 | RH916PM | FBM207 | 1 |
| 240 V ac Switch | 32 | | 0 | RH916PU<br>P0916PV | FBM217 | 1 |
| 240 V ac Switch (external source) | 32 | | 0 | RH916QA<br>P0916QB | FBM217 | 1 |
| 240 V ac Switch | 8 | 240 V ac at 5 A Switch (external source) | 8 | RH916QJ | FBM241 | 5 |
| 240 V ac Switch (external source) | 8 | 240 V ac at 5 A Switch (external source) | 8 | RH916QX | FBM241 | 5 |
| 240 V ac Switch | 8 | 240 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QL | FBM241 | 5 |
| 240 V ac Switch (external source) | 8 | 240 V ac at 5 A Switch (external source) with power distribution | 8 | RH916QZ | FBM241 | 5 |
| **15 to 60 V dc Switch Outputs** | | | | | | |
| | 0 | 15 to 60 V dc at 2 A Switch (external source) | 16 | RH916JY<br>P0916RJ<br>RH917XX | FBM242 | 1, 2 |
| | 0 | 15 to 60 V dc at 2 A Switch (external source) | 16 | RH917HX<br>RH923LH | FBM242 | 1, 4 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| **30 V dc/240 V ac Switch Outputs** | | | | | | |
| | 0 | 30 V dc at 5 A, or 240 V ac at 5 A Switch (external source) | 16 | P0916NG<br>P0916RK<br>RH916YY<br>RH923LL | FBM242 | 5 |
| | 0 | 30 V dc at 5 A, or 240 V ac at 5 A Switch (external source) with power distribution | 16 | P0916JZ<br>P0916RL<br>RH916YZ | FBM242 | 5 |
| | 0 | 120 V ac/125 V dc at 2 A, solid-state switch Fused Outputs (external source) | 16 | RH926BE | FBM242 | 5 |
| | 0 | 120 V ac/125 V dc at 2 A SPDT (Form C) relay - Fused Outputs (external source) | 16 | RH926DV | FBM242 | 5 |
| **15 to 130 V dc Voltage Monitor, External Source Inputs** | | | | | | |
| Up to 130 V dc voltage<br>Logic Zero: 0 to 5 V dc<br>Logic One: 15 to 130 V dc<br>2.2 mA typical 5 to 130 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HA or RH924HB | FBM217 | 1 |
| Up to 130 V dc voltage<br>Logic Zero: 0 to 5 V dc<br>Logic One: 15 to 130 V dc<br>2.2 mA typical 5 to 130 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HA | FBM219 | 1 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| **150 V dc Voltage Monitor/Contact Sense, External Source Inputs/Switch Outputs** | | | | | | |
| Voltage monitor (external source)<br>Up to 130 V dc voltage<br>Logic Zero: 0 to 5 V dc<br>Logic One: 15 to 130 V dc<br>2.2 mA typical 5 to 130 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance<br>Contact sense (internal source)<br>24 V dc ±10% Open circuit voltage<br>Up to 2.5 mA short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 24 | Up to 60 V dc voltage (external source)<br>Up to 0.5 V voltage drop @ 0.5 A<br>Up to 0.5 A current<br>0.75 A current limit<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 1.0 mA offstate leakage<br>11 V dc ±2 V Open circuit voltage (internal source)<br>Source resistance: 680 Ω nominal<br>Shorted load duration: indefinite<br>Up to 0.5 mA offstate leakage | 8 | RH924HE | FBM238 | 1, 2, 4 |
| Voltage monitor (external source)<br>Up to 130 V dc voltage<br>Logic Zero: 0 to 5 V dc<br>Logic One: 15 to 130 V dc<br>2.2 mA typical 5 to 130 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 60 V dc voltage (external source)<br>Up to 0.5 V voltage drop @ 0.5 A<br>Up to 0.5 A current<br>0.75 A current limit<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 1.0 mA offstate leakage | 16 | RH924HE | FBM239 | 1, 2, 4 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| Contact sense (internal source)<br>24 V dc ±10% Open circuit voltage<br>Up to 2.5 mA short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | | 11 V dc ±2 V Open circuit voltage (internal source)<br>Source resistance: 680 Ω nominal<br>Shorted load duration: indefinite<br>Up to 0.5 mA offstate leakage | | | | |
| Voltage monitor (external source)<br>Up to 132 V ac voltage<br>Logic Zero: 0 to 20 V ac<br>Logic One: 79 to 132 V ac<br>2.2 mA typical 20 to 132 V ac<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 24 | Up to 132 V ac voltage (external source)<br>Up to 0.4 V voltage drop @ 1 A<br>Up to 2 A current per channel<br>Up to 12 A current per TA<br>3 A current limit<br>24 A shock wave current limit for 10 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 3 mA offstate leakage | 8 | RH924HG | FBM238 | 1, 4 |
| Voltage monitor (external source)<br>Up to 132 V ac voltage<br>Logic Zero: 0 to 20 V ac<br>Logic One: 79 to 132 V ac<br>2.2 mA typical 20 to 132 V ac<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 132 V ac voltage (external source)<br>Up to 0.4 V voltage drop @ 1 A<br>Up to 2 A current per channel<br>Up to 12 A current per TA<br>3 A current limit<br>24 A shock wave current limit for 10 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 3 mA offstate leakage | 16 | RH924HG | FBM239 | 1, 4 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| Voltage monitor (external source)<br>Up to 150 V dc voltage<br>Logic Zero: 0 to 10 V dc<br>Logic One: 33 to 150 V dc<br>2.5 mA typical 10 to 150 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 24 | Up to 150 V dc voltage (external source)<br>0.4 V maximum voltage drop @ 1 A<br>Up to 2 A current per channel<br>Up to 12 A current per TA<br>2.3 A current limit<br>20 A shock wave current limit for 20 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 2 mA offstate leakage | 8 | RH924HU | FBM238 | 1, 2, 4 |
| Voltage monitor (external source)<br>Up to 150 V dc voltage<br>Logic Zero: 0 to 10 V dc<br>Logic One: 33 to 150 V dc<br>2.5 mA typical 10 to 150 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 150 V dc voltage (external source)<br>Up to 0.4 V maximum voltage drop @ 1 A<br>Up to 2 A current per channel<br>Up to 12 A current per TA<br>2.3 A current limit<br>20 A shock wave current limit for 20 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 2 mA offstate leakage | 16 | RH924HU | FBM239 | 1, 2, 4 |
| Contact Sense (external source on channel 1)<br>Up to 150 V dc voltage<br>Logic Zero: 0 to 10 V dc<br>Logic One: 33 to 150 V dc<br>2.5 mA typical 10 to 150 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 24 | Up to 150 V dc voltage (external source)<br>Up to 0.4 V voltage drop @ 1 A<br>Up to 2 A current per channel<br>Up to 12 A current per TA<br>2.3 A current limit<br>20 A shock wave current limit for 20 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 2 mA offstate leakage | 8 | RH924HW | FBM238 | 1, 2, 4 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| Contact Sense (external source on channel 1)<br>Up to 150 V dc voltage<br>Logic Zero: 0 to 10 V dc<br>Logic One: 33 to 150 V dc<br>2.5 mA typical 10 to 150 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 150 V dc voltage (external source)<br>Up to 0.4 V voltage drop @ 1 A<br>Up to 2 A current per channel<br>Up to 12 A current per TA<br>2.3 A current limit<br>20 A shock wave current limit for 20 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 2 mA offstate leakage | 16 | RH924HW | FBM239 | 1, 2, 4 |
| **60 V dc Voltage Monitor/Contact Sense, External Source Inputs/Switch Outputs** | | | | | | |
| Voltage monitor (external source)<br>Up to 60 V dc voltage<br>Logic Zero: 0 to 5 V dc<br>Logic One: 15 to 60 V dc<br>Up to 6 mA input current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance<br><br>Contact Sense (internal source)<br>24 V dc ±20% Open circuit voltage<br>Up to 5 mA short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 24 | Up to 60 V dc voltage (external source)<br>Up to 0.4 V voltage drop @ 1 A<br>Up to 2.25 A current<br>Up to 12 A current per TA<br>10 A shock wave current limit for up to 20 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 0.5 mA offstate leakage | 8 | RH924JA | FBM238 | 1, 2, 4 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| Voltage monitor (external source)<br>Up to 60 V dc voltage<br>Logic Zero: 0 to 5 V dc<br>Logic One: 15 to 60 V dc<br>Up to 6 mA input current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance<br><br>Contact Sense (internal source)<br>24 V dc ±20% Open circuit voltage<br>Up to 5 mA short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 60 V dc voltage (external source)<br>Up to 0.4 V voltage drop @ 1 A<br>Up to 2.25 A current<br>Up to 12 A current per TA<br>10 A shock wave current limit for up to 20 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 0.5 mA offstate leakage | 16 | RH924JA | FBM239 | 1, 2, 4 |
| **30 V dc Voltage Monitor/Contact Sense Inputs/Switch Outputs** | | | | | | |
| Voltage monitor (external source)<br>Up to 30 V dc applied voltage<br>Logic Zero: 0 to 5 V dc<br>Logic One: 15 to 30 V dc<br>2.2 mA typical at 30 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 60 V dc voltage (external source)<br>Up to 0.25 A dc current<br>Up to 2.0 A dc current per FBM<br>Up to 0.25 mA dc offstate leakage current<br>0.4 A over-current fuse | 16 | RH924VJ | FBM239 | 1, 2, 4 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| Contact Sense (internal source)<br>24 V dc nominal open circuit voltage<br>Up to 7 mA nominal current<br>2.2 mA typical at 30 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 60 V dc voltage (external source)<br>Up to 0.25 A dc current<br>Up to 2.0 A dc current per FBM<br>Up to 0.25 mA dc offstate leakage current<br>0.4 A over-current fuse | 16 | RH924VM | FBM239 | 1, 2, 4 |
| **48 V dc Contact Sense, Internal Source Inputs/Switch Outputs** | | | | | | |
| Contact Sense (internal source)<br>48 V dc nominal open circuit voltage<br>2.5 mA ±20% short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 24 | Up to 150 V dc voltage (external source)<br>0.4 V voltage drop @ 1 A<br>Up to 2 A current per channel<br>Up to 12 A current per TA<br>2.3 A current limit<br>20 A shock wave current limit for up to 20 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 2 mA offstate leakage | 8 | RH924HV | FBM238 | 1, 2, 4 |
| Contact Sense (internal source)<br>48 V dc nominal open circuit voltage<br>2.5 mA ±20% short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 150 V dc voltage (external source)<br>Up to 0.4 V voltage drop @ 1 A<br>Up to 2 A current per channel<br>Up to 12 A current per TA<br>2.3 A current limit<br>20 A shock wave current limit for up to 20 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 2 mA offstate leakage | 16 | RH924HV | FBM239 | 1, 2, 4 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| Up to 132 V ac or 150 V dc voltage<br>Logic Zero: 0 to 20 V ac; 0 to 20 V dc<br>Logic One: 79 to 132 V ac; 75 to 150 V dc<br>2.2 mA typical 20 to 132 V ac<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HC or RH924HD | FBM217 | 1 |
| Up to 132 V ac or 150 V dc voltage<br>Logic Zero: 0 to 20 V ac; 0 to 20 V dc<br>Logic One: 79 to 132 V ac; 75 to 150 V dc<br>2.2 mA typical 20 to 132 V ac<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HC | FBM219 | 1 |
| **150 V dc Voltage Monitor, External Source Inputs** | | | | | | |
| Up to 150 V dc voltage<br>Logic Zero: 0 to 10 V dc<br>Logic One: 33 to 150 V dc<br>2.5 mA typical 10 to 150 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HN or RH924HR | FBM217 | 1 |
| Up to 150 V dc voltage<br>Logic Zero: 0 to 10 V dc<br>Logic One: 33 to 150 V dc<br>2.5 mA typical 10 to 150 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HN | FBM219 | 1 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| **264 V dc Voltage Monitor, External Source Inputs** | | | | | | |
| Up to 264 V ac voltage<br>Logic Zero: 0 to 40 V ac<br>Logic One: 164 to 264 V ac<br>2.2 mA typical 40 to 264 V ac<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HL or RH924HM | FBM217 | 1 |
| Up to 264 V ac voltage<br>Logic Zero: 0 to 40 V ac<br>Logic One: 164 to 264 V ac<br>2.2 mA typical 40 to 264 V ac<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HL | FBM219 | 1 |
| **264 V dc Voltage Monitor Inputs/Switch Outputs** | | | | | | |
| Voltage monitor (external source)<br>Up to 264 V ac voltage<br>Logic Zero: 0 to 40 V ac<br>Logic One: 164 to 264V ac<br>2.2 mA typical 40 to 264 V ac<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 24 | Up to 264 V ac voltage (external source)<br>Up to 0.5 V voltage drop @ 0.5 A<br>Up to 1 A current per channel<br>Up to 7 A current per TA<br>1.5 A current limit<br>12 A shock wave current limit for 10 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 2.5 mA offstate leakage | 8 | RH924HJ | FBM238 | 1 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| Voltage monitor (external source)<br>Up to 264 V ac voltage<br>Logic Zero: 0 to 40 V ac<br>Logic One: 164 to 264V ac<br>2.2 mA typical 40 to 264 V ac<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | Up to 264 V ac voltage (external source)<br>Up to 0.5 V voltage drop @ 0.5 A<br>Up to 1 A current per channel<br>Up to 7 A current per TA<br>1.5 A current limit<br>12 A shock wave current limit for 10 msec<br>Shorted load duration: indefinite (duty-cycle limited)<br>Up to 2.5 mA offstate leakage | 16 | RH924HJ | FBM239 | 1 |
| **24 V dc Contact Sense, Internal Source Inputs** | | | | | | |
| 24 V dc ±10% Open circuit voltage<br>Up to 2.5 mA short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HA or RH924HB | FBM217 | 1 |
| 48 V dc nominal open circuit voltage<br>2.5 mA ±20% short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HP or RH924HS | FBM217 | 1 |
| 48 V dc nominal open circuit voltage<br>2.5 mA ±20% short circuit current<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HP | FBM219 | 1 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| **Type** | **#** | **Type** | **#** | | | |
| **48 V dc Contact Sense, External Source on Channel 1 Inputs** | | | | | | |
| Up to 150 V dc voltage<br>Logic Zero: 0 to 10 V dc<br>Logic One: 33 to 150 V dc<br>2.5 mA typical 10 to 150 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 24 | | 0 | RH924HQ or RH924HT | FBM217 | 1 |
| Up to 150 V dc voltage<br>Logic Zero: 0 to 10 V dc<br>Logic One: 33 to 150 V dc<br>2.5 mA typical 10 to 150 V dc<br>Up to 1 KΩ On-state resistance<br>100 KΩ Minimum Off-state resistance | 16 | | 0 | RH924HQ | FBM219 | 1 |

**Table 8 - Certifications for Termination Assemblies for Compact 200 Series FBMs (Continued)**

| Signal Inputs | | Signal Outputs | | TA Part Number | Compact FBM Type | Cert Types |
|---|---|---|---|---|---|---|
| Type | # | Type | # | | | |
| **Type 1** | | | | | | |
| TAs are UL/UL-C listed as suitable for use in Class I; Groups A-D; Division 2 temperature code T4 hazardous locations. They are ATEX (DEMKO) certified Ex nA IIC T4 for use in Zone 2 potentially explosive atmospheres. | | | | | | |
| **Type 2** | | | | | | |
| TAs are UL/UL-C listed as associated apparatus for supplying non-incendive field circuits Class I; Groups A-D; Division 2 hazardous locations when connected to specified 200 Series FBMs and field circuits meeting entity parameter constraints specified in *Standard and Compact 200 Series Subsystem User's Guide* (B0400FA). They are also ATEX (DEMKO) certified as associated apparatus for supplying field circuits for Group IIC, Zone 2 potentially explosive atmospheres. Field circuits are also Class 2 limited energy (60 V dc, 30 V ac, 100 VA or less) if customer-supplied equipment meets Class 2 limits. | | | | | | |
| **Type 3** | | | | | | |
| Same as Type 2 above except that only input circuits are non-incendive/Class 2. | | | | | | |
| **Type 4** | | | | | | |
| All field circuits are Class 2 limited energy (60 V dc, 30 V ac, 100 VA or less) if customer-supplied equipment meets Class 2 limits. | | | | | | |
| **Type 5** | | | | | | |
| The TA and its field circuitry are for use in only ordinary (non-hazardous) locations. | | | | | | |
| **NOTE:** All TAs are UL/UL-C listed to comply with applicable ordinary location safety standards for fire and shock hazards. Hazardous location types comply with ATEX directive for II 3 G use. They also comply with the requirements of the European Low Voltage Directive. All listings/certifications need installation and use within the constraints specified in Standard and Compact 200 Series Subsystem User's Guide (B0400FA) and the conditions stated in UL and DEMKO reports.<br><br>Also, all TAs listed to comply with Bureau Veritas Certified for Marine Installations in Environmental Category EC31C and are ABS Marine Type approved. | | | | | | |

**WARNING**: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.p65warnings.ca.gov/.

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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.



PSS 41H-2CERTS, Rev C