

DIN Rail Mounted Equipment, Agency Certifications



DIN rail mounted enclosure-based equipment is safety certified by authorized agencies as specified herein.

FEATURES

DIN rail mounted enclosure-based equipment has the following safety certifications:

- ▶ Underwriters Laboratories (UL®) listing for US (NRTL) and Canadian (UL-C) requirements for both ordinary and hazardous locations
- ▶ CENELEC (DEMKO) certification for use in potentially explosive atmospheres
- ▶ European Union (EU) Low Voltage and EMC directives ("CE" logo marked on product)
- ▶ Where applicable, comply with the Explosive Atmospheres (ATEX) directive (94/9/EC).

OVERVIEW

DIN rail mounted enclosure-based Field Control Processors (FCPs), Fieldbus Modules (FBMs) and Fieldbus Communications Modules (FCMs) with their associated equipment/agency certifications, are listed on the following pages:

- ▶ Certifications for Modular Baseplates
- ▶ Certifications for Power Supply
- ▶ Certifications for Field Control Processors (FCP)
- ▶ Certifications for Fieldbus Modules (FBMs)
- ▶ Certifications for Fieldbus Communications Modules (FCMs)
- ▶ Certifications for Termination Assemblies (TAs).

CERTIFICATIONS FOR MODULAR BASEPLATES

Table 1 identifies the certifications for the DIN Rail Mounted Modular Baseplates (refer to PSS 21H-2W6 B4).

Table 1. Certifications for Baseplates

Module	Description
Modular Baseplates	Component for containing FCPs, FBMs and FCMs.
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 <i>DIN Rail Mounted Subsystem User's Guide</i> (B0400FA).	
CENELEC (DEMKO)	
CENELEC certified EEx nA IIC T4 for use in CENELEC certified Zone 2 enclosure-based systems. Conditions of use are as specified in <i>DIN Rail Mounted Subsystem User's Guide</i> (B0400FA). Comply with ATEX directive for II 3 G use.	

CERTIFICATIONS FOR POWER SUPPLY

The FPS400-24 DIN Rail Mounted Power Supply is agency certified for use in Division 2 applications (refer to PSS 21H-2W3 B4).

The FPS400-24 is UL® certified to UL 1950 and c-UL 950, provides a Safety Extra Low Voltage Outputs (SELV) and is suitable for use in Class I; Groups A-D; Division 2 (CENELEC Zone 2) hazardous locations with a temperature code of T3.

The FPS240-24 and FPS120-24 DIN Rail Mounted Power Supplies are agency certified for use in Class I, Division 2, applications (refer to PSS 21H-2W7 B4).

The FPS240-24 and FPS120-24 are UL® certified to UL 508 and C22.2 No. 1495, UL 60950-1 and C22.2 No. 60950, and UL 1604 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 (CENELEC Zone 2) hazardous locations.

CERTIFICATIONS FOR FIELD CONTROL PROCESSORS (FCPS)

Table 2 lists the certifications for Field Control Processors.

Table 2. Certifications for FCPs

Module	Description
FCP270	Field Control Processor 270 (P0917YZ) (refer to PSS 21H-1B9 B3)
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 <i>Field Control Processor 270 (FCP270) User's Guide</i> (B0700AR).	
CENELEC (DEMKO)	
CENELEC certified EEx nA IIC T4 for use in CENELEC certified Zone 2 enclosure-based systems. Conditions of use are as specified in <i>Field Control Processor 270 (FCP270) User's Guide</i> (B0700AR). Comply with ATEX directive for II 3 G use.	

CERTIFICATIONS FOR FIELD BUS MODULES (FBMS)

Table 3 lists the FBMs and the table footnotes on page 5 list the certifications for Fieldbus Modules (FBMs).

Table 3. Certifications for FBMs

Module	Description
FBM201	Channel Isolated, 0 to 20 mA, Input Interface Module
FBM202	Channel Isolated, Thermocouple/mV Input Interface Module
FBM203	Channel Isolated, Platinum/Nickel/Copper RTD Input Interface Module
FBM204	Channel Isolated, 0 to 20 mA, I/O Interface Module
FBM205	Redundant, Channel Isolated, 0 to 20 mA, I/O Interface Module
FBM206	Channel Isolated, Pulse Input Interface Module
FBM206b	Channel Isolated, Pulse Input/0 to 20 mA Analog Output Interface Module

Table 3. Certifications for FBMs (Continued)

Module	Description
FBM207	Channel Isolated, Contact/dc Input Interface Module*
FBM208	Channel Isolated, Redundant with Readback, 0 to 20 mA, I/O Interface Module
FBM211	Differential Isolated, Analog Input Interface Module, 0 to 20 mA
FBM212	Differential Isolated, Analog Input Interface 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 Interface Module
FBM216	Redundant 0 to 20 mA, HART Input Interface Module
FBM216b	Redundant Channel-Isolated, 0 to 20 mA, HART Input Interface Module
FBM217	Discrete Input Interface Module*
FBM218	Redundant 0 to 20 mA, HART Output Interface Module
FBM219	Discrete Input/Output Interface Module*
FBM220	FOUNDATION™ fieldbus H1 Communication Interface Module, Single-Channel
FBM221	FOUNDATION fieldbus H1 Communication Interface Module, Four-Channel
FBM223	PROFIBUS-DP™ Communication Interface Module, Two-Channel
FBM224	Modbus® Communication Module, Four-Port
FBM227	Contact/dc I/O Interface Module with DPIDA and MDACT Support
FBM228	Redundant FOUNDATION fieldbus H1 Communication Interface Module, Four-Channel
FBM229	DeviceNet™ Communication Interface Module
FBM230	Field Device System Integrator (FDSI) Four Serial Ports, Single
FBM231	Field Device System Integrator (FDSI) Four Serial Ports, Redundant
FBM232	Field Device System Integrator (FDSI) 10/100 Mbps Ethernet, Single
FBM233	Field Device System Integrator (FDSI) 10/100 Mbps Ethernet, Redundant
FBM237	Channel Isolated, Redundant Ready, 0 to 20 mA, Output Interface Module
FBM238	Group Isolated Discrete 24DI/8DO Interface Module
FBM239	Group Isolated Digital 16DI/16DO Interface Module
FBM240	Channel Isolated, Redundant with Readback, Externally Sourced, Discrete Output Interface Module

Table 3. Certifications for FBMs (Continued)

Module	Description
FBM241	Channel Isolated, Discrete I/O Interface Modules (FBM241/241b/241c/241d)*
FBM242	Channel Isolated, Externally Sourced, Discrete Output Interface Module
FBM243	FoxCom™ Dual Baud Rate Intelligent Device Interface Module
FBM243b	FoxCom™ Dual Baud Rate Intelligent Device and 0 to 20 mA Analog Output Interface Module
FBM244	0 to 20 mA I/O Interface Module with HART® Support
FBM245	Redundant 0 to 20 mA I/O Interface Module with HART® Support
FBM246	FoxCom Redundant Dual Baud Rate Intelligent Device Interface Module
FBM246b	FoxCom Redundant Dual Baud Rate Intelligent Device and 0 to 20 mA Analog Output Interface Module
FBM247	Current/Voltage Analog/Digital/Pulse I/O Configurable Channel Interface Module
* Inputs must be less than 60 V dc.	
Fieldbus Modules	
<p>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 5. FBM232 and FBM233 can be directly connected to customers field circuits and are Class 2 limited energy (see Table 5).</p>	
Underwriters Laboratories (US and Canadian Certification)	
<p>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 <i>DIN Rail Mounted Subsystem User's Guide</i> (B0400FA).</p>	
CENELEC (DEMKO)	
<p>CENELEC certified EEx nA IIC T4 for use in CENELEC certified Zone 2 enclosure-based systems. Conditions of use are as specified in <i>DIN Rail Mounted Subsystem User's Guide</i> (B0400FA). Comply with ATEX directive for II 3 G use.</p>	

CERTIFICATIONS FOR FIELDBUS COMMUNICATIONS MODULES (FCMs)

Table 4 identifies the certifications for the FCMs.

Table 4. 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 21H-2Y3 B3
Underwriters Laboratories (US and Canadian Certification)		
<p>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 I/A Series[®] processor modules as described in the <i>DIN Rail Mounted Subsystem User's Guide</i> (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 <i>DIN Rail Mounted Subsystem User's Guide</i> (B0400FA).</p>		
CENELEC (DEMKO)		
<p>CENELEC (DEMKO) certified as EEx nA[L] IIC T4 for use in CENELEC certified Zone 2 enclosure-based systems. The modules are CENELEC certified as associated apparatus for supplying non-incendive field circuits for Zone 2, Group IIC, potentially explosive atmospheres when connected to specified I/A Series processor modules as described in <i>DIN Rail Mounted Subsystem User's Guide</i> (B0400FA). Comply with ATEX directive for II 3 G use.</p>		

CERTIFICATIONS FOR TERMINATION ASSEMBLIES

Table 5 lists the type of certifications for the termination assemblies and the table footnotes on page 19 identify the certification types.

Table 5. Certifications for Termination Assemblies

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
0 to 20 mA Inputs/Outputs						
0 to 20 mA	8		0	P0916AA P0916AB P0916XG P0917JK	FBM201	1, 2
0 to 100 mV	8		0	P0922ZM	FBM201b	1, 2
0 to 5 V	8		0	P0922ZN	FBM201c	1, 2
0 to 10 V	8		0	P0922ZP P0926SQ	FBM201d	1, 2
0 to 320 ohm	8		0	P0916AE P0916AF P0916XJ P0917JM	FBM203	1, 2
0 to 320 ohm	Two sets of 8		0	P0924WN(b)	FBM203	1, 2
0 to 640 ohm	8		0	P0916AE P0916AF P0916XJ P0917JM	FBM203b	1, 2
0 to 640 ohm	Two sets of 8		0	P0924WN(b)	FBM203b	1, 2

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
0 to 30 ohm	8		0	P0916AE P0916AF P0916XJ P0917JM	FBM203c	1, 2
0 to 30 ohm	Two sets of 8		0	P0924WN(b)	FBM203c	1, 2
0 to 320 ohm	8		0	P0924EX	FBM203d	1, 2
0 to 20 mA, External Power	16		0	P0916JT P0916PQ	FBM211	1, 2
0 to 20 mA, FBM Power	16		0	P0916BT P0916BU	FBM211	1, 4
	0	0 to 20 mA	8	P0916CC P0916QC P0917QZ	FBM237	1, 2
0 to 20 mA	4	0 to 20 mA	4	P0916AG P0916AH P0917QW	FBM204	1 (4,5 with P0917QW)
0 to 20 mA	4	0 to 20 mA	4	P0916AJ P0916AK P0916JP P0917QW	FBM205	1, 2 (4,5 with P0917QW)
0 to 20 mA	4	0 to 20 mA	4	P0916AJ P0916AK P0917JP	FBM208	1, 2

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
<p>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.</p> <p>Also each channel supports:</p> <ul style="list-style-type: none"> ▶ 0 to 10 V and 0 to 5 analog input, non-HART ▶ Digital dry contact sense 24 V dc ▶ Discrete voltage monitor, configurable 0 and 1 thresholds 0-10 V ▶ NAMUR sensor discrete input - Signal level according to DIN EN 50227 (NAMUR): <ul style="list-style-type: none"> • “On” switching threshold 2.1 mA to 10 mA dc • “Off” switching threshold 0 mA to 1.2 mA dc • A shield terminal connection (SH) is provided for each I/O point. The shield terminals are connected to the earth at the system power supply. ▶ Pulse count, frequency, acceleration and jerk, contact sense or voltage input ▶ Discrete Output 24 V, 20 mA current or solid state switch output 				P0924WW	FBM247	1, 2

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification 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. Also supports:				P0924WG (b)	FBM247	1, 2
<ul style="list-style-type: none"> ▶ 0 to 10 V and 0 to 5 V analog input, non-HART ▶ Digital dry contact sense 24 V dc ▶ Discrete voltage monitor, configurable 0 and 1 thresholds 0-10 V ▶ NAMUR sensor discrete input - Signal level according to DIN EN 50227 (NAMUR): <ul style="list-style-type: none"> • “On” switching threshold 2.1 mA to 10 mA dc • “Off” switching threshold 0 mA to 1.2 mA dc • A shield terminal connection (SH) is provided for each I/O point. The shield terminals are connected to the earth at the system power supply. ▶ Pulse count, frequency, acceleration and jerk, contact sense or voltage input ▶ Discrete Output 24 V, 20 mA current or solid state switch output 						
0 to 20 mA, HART	8		0	P0916BX P0926EA P0926TD	FBM214	1, 2
0 to 20 mA, HART	8		0	P0924JH	FBM214b	1, 2
	0	0 to 20 mA, HART	8	P0917XV P0926EK	FBM215	1, 2
0 to 20 mA, HART	8		0	P0916BX P0926EA P0926TD	FBM216	1, 2
0 to 20 mA, HART	8		0	P0924JH	FBM216b	1, 2

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
	0	0 to 20 mA, HART	8	P0917XV P0916EK	FBM218	1, 2
4 to 20 mA, HART	4	4 to 20 mA, HART	4	P0924QU P0924QZ (a)	FBM244	1, 2
4 to 20 mA, HART	4	4 to 20 mA, HART	4	P0924QU P0924QZ (a)	FBM245	1, 2
FOUNDATION™ fieldbus Interface						
Single-Channel H1 FOUNDATION fieldbus				P0917RF P0917RG	FBM220	1, 4
Four-Channel H1 FOUNDATION fieldbus				P0917RF P0917RG	FBM221	1, 4
Redundant Four-Channel H1 FOUNDATION fieldbus				P0922VC	FBM228	1, 4*
* 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 P0922VC passive termination assembly. In this case, certification is the responsibility of the third party supplier.						
PROFIBUS-DP Interface						
Two-Channel PROFIBUS-DP				P0917SY	FBM223	5
Modbus Interface						
Four-Port Modbus				P0926GH P0926PA	FBM224	5
Field Device System Interface						
RS-232, RS422 or RS485	4	RS-232, RS422 or RS485	4	P0926GH P0926PA	FBM230	4

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
RS-232, RS422 or RS485	4	RS-232, RS422 or RS485	4	P0926GH 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	P0926TE	FBM229	1
Thermocouple/mV Inputs						
Thermocouple/mV	8		0	P0916AC P0916AD P0916XH P0917JM	FBM202	1
Thermocouple/mV	Two sets of 8		0	P0928CN (b)	FBM202	1
Thermocouple/mV	14		0	P0916BV P0916BW	FBM212	1, 2
RTD Inputs						
RTD (Platinum/Nickel/Copper)	8		0	P0916AE P0916AF P0916XJ P0917JM	FBM203	1, 2

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
RTD (Platinum/Nickel/Copper)	Two sets of 8		0	P0924WN(b)	FBM203	1, 2
Pulse Inputs						
Pulse	8		0	P0916JQ P0916PG P0917JQ	FBM206	1, 2
Pulse	4	0 to 20 mA	4	P0924QN P0924QP	FBM206b	1, 2
Contact Inputs/Switch Outputs						
24 V dc Contact	32		0	P0916PW P0916PX P0916XZ	FBM217	1, 4
24 V dc Contact	16		0	P0916JS P0916PP	FBM207b	1, 2
48 V dc Contact	16		0	P0917MF P0917MH P0917MJ	FBM207c	1, 2
24 V dc Contact	8	15 to 60 V dc at 2 A Switch, unprotected (external source)	8	P0916UD P0916SS P0917KY	FBM241c	1, 2
24 V dc Contact	8	15 to 60 V dc at 2 A Switch, protected (external source)	8	P0916JW 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	P0916AW P0916AX	FBM241c	3

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
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	P0916QQ P0916QR	FBM241c	3
24 V dc Contact	8	15 V dc at 15 mA Switch (internal source)	8	P0916JX P0916QS P0916YW P0917LA	FBM241d	1, 2
0 to 10 V dc Switch Inputs/ Switch Outputs						
0 to 10 V dc	4	0 to 10 V dc	2	P0924DB/	FBM227	1, 2
130 V dc digital inputs, isolated into two groups of two channels each	4	60 V dc digital outputs, isolated in two groups of two channels each	4	P0924JY		
15 to 60 V dc Switch Inputs/ Switch Outputs						
15 to 30 V dc Switch	32		0	P0916CA P0916CB	FBM217	1, 2
15 to 30 V dc Switch	0		16	P0916LE	FBM219	1, 2
15 to 60 V dc Switch	16		0	P0916AL P0916AN P0917JR	FBM207	1, 2
15 to 60 V dc Switch	8	15 V dc at 15 mA Switch (internal source)	8	P0916JV P0916QN	FBM241b	1, 2
15 to 60 V dc Switch	0	15 to 60 V dc at 0.25 A Switch, protected (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	P0916UY P0916UZ	FBM241	1, 2

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
15 to 60 V dc Switch	8	15 to 60 V dc at 2 A Switch, protected (external source)	8	P0916AQ P0916AR	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	P0916QE P0916QF	FBM241	3
240 V ac/30 V dc Switch Inputs/Switch Outputs						
120 V ac/125 V dc Switch	16		0	P0916AM P0916AP P0917JS	FBM207	1
120 V ac/125 V dc Switch	32		0	P0916PS P0916PT P0916YA	FBM217	1
120 V ac/125 V dc Switch (external source)	32		0	P0916PY P0916PZ P0917YB	FBM217	1
120 V ac/125 V dc Switch (external source)	16		0	P0916PK P0916PL 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	P0917YF	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	P0917MX P0926DS	FBM240	5
120 V ac Switch	8	120 V ac at 5 A Switch (external source)	8	P0917HU	FBM240	5

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
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 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	P0916QG 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	P0926BE P0926DV	FBM219	5
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	P0916QT 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 P0917LS P0917LV	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	P0916QV P0916QW	FBM241	5
240 V ac Switch Inputs/Switch Outputs						
240 V ac Switch	16		0	P0916PH P0916PJ	FBM207	1
240 V ac Switch	32		0	P0916PU P0916PV	FBM217	1

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
240 V ac Switch	8	240 V ac at 5 A Switch (external source)	8	P0916QJ P0916QK	FBM241	5
240 V ac Switch	8	240 V ac at 5 A Switch (external source) with power distribution	8	P0916QL P0916QM	FBM241	5
240 V ac Switch (external source)	16		0	P0916PM P0916PN	FBM207	1
240 V ac Switch (external source)	32		0	P0916QA P0916QB	FBM217	1
240 V ac Switch (external source)	8	240 V ac at 5 A Switch (external source)	8	P0916QX P0916QY	FBM241	5
240 V ac Switch (external source)	8	240 V ac at 5 A Switch (external source) with power distribution	8	P0916QZ P0916NZ	FBM241	5
15 to 60 V dc Switch Outputs						
	0	15 to 60 V dc at 2 A Switch (external source)	16	P0916JY P0916RJ P0917XX	FBM242	1, 2
	0	15 to 60 V dc at 2 A Switch (external source)	16	P0917HX P0923LH	FBM242	1, 4
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 P0916RK P0923LL	FBM242	5

Table 5. Certifications for Termination Assemblies (Continued)

Signal Inputs		Signal Outputs		TA Part Number	FBM Number	Certification Types
Type	#	Type	#			
	0	30 V dc at 5 A, or 240 V ac at 5 A Switch (external source) with power distribution	16	P0916JZ P0916RL	FBM242	5
FoxCom Dual Baud Rate Intelligent Device Interface						
Isolated and Independent Communications Channels	8	Isolated and Independent Communications Channels	8	P0916BA, P0917XW, P0931KJ	FBM243	1, 2
Isolated and Independent Communications Channels	4	0 to 20 mA	4 4	P0924QQ P0924QY	FBM243b	1, 2
Isolated and Independent Communications Channels	8	Isolated and Independent Communications Channels	8	P0916BA, P0917XW, P0931KJ	FBM246	1, 2
Isolated and Independent Communications Channels	4	0 to 20 mA	4 4	P0924QQ P0924QY	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.

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 CENELEC (DEMKO) certified EEx 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 DIN rail mounted FBMs and field circuits meeting entity parameter constraints specified in <i>DIN Rail Mounted Subsystem User's Guide</i> (B0400FA). They are also CENELEC (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 require installation and use within the constraints specified in *DIN Rail Mounted Subsystem User's Guide* (B0400FA) and the conditions stated in UL and DEMKO reports.

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