



# ATEX Installation drawing 9203QA01 - V6R0

For safe installation of 9203 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

For installation in Zone 2 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PFElectronics modules. It is important that the module is undamaged and has not been altered or modified in any way. Only 4501 modules free of dust and moisture shall be installed.

ATEX Certificate: KEMA 07ATEX 0147 X
Marking 9203B: II (1) G Ex ia Ga IIC/IB/IIA Ex ia IIC Ex ia IIC 14 Gc (1) (1) D [Ex ia] IIC I (M) II III IIIA
Marking 9203A: II 30 Ex ia IIC Ex ia IIC 14 Gc
Standards: EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-15 : 2010

Table with 5 columns: Type, Installation, Current Output, Channels, Input. Rows for 9203 Non Ex / Zone 2 and Ex-Barrier / Zone 2.

Installation notes: Install in pollution degree 2, overvoltage category II as defined in EN60664-1. Do not separate connectors when energized and an explosive gas mixture is present. Do not mount or remove modules from the Power Rail when an explosive gas mixture is present.

# IECEX Installation drawing 9203Q01-V6R0

For safe installation of 9203 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

For installation in Zone 2 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PFElectronics modules. It is important that the module is undamaged and has not been altered or modified in any way. Only 4501 modules free of dust and moisture shall be installed.

IECEX Certificate: IECEx KEM 09.0001X
Marking 9203Bxx: [Ex ia Ga] IIC/IB/IIA Ex ia IIC Ex ia IIC 14 Gc Ex ia [Da] IIC I [Ex ia M] I
Marking 9203Axxx: Ex ia IIC Ex ia IIC 14 Gc
Standards: IEC60079-15:2010, IEC60079-11:2011, IEC60079-0:2011

Table with 5 columns: Type, Installation, Current Output, Channels, Input. Rows for 9203 Non Ex / Zone 2 and Ex-Barrier / Zone 2.

Installation notes: Install in pollution degree 2, overvoltage category II as defined in IEC60664-1. Do not separate connectors when energized and an explosive gas mixture is present. Do not mount or remove modules from the Power Rail when an explosive gas mixture is present.

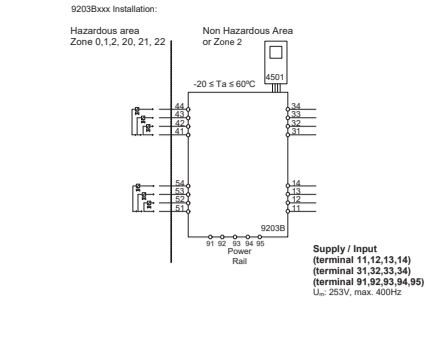
# FM Installation drawing 9203QF01-V7R0

For safe installation of 9203 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

For installation in Zone 2 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PFElectronics modules. It is important that the module is undamaged and has not been altered or modified in any way. Only 4501 modules free of dust and moisture shall be installed.

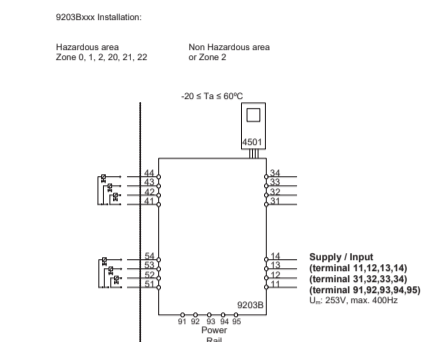
Table with 5 columns: Type, Installation, Current Output, Channels, Input. Rows for 9203 Non Ex / Zone 2 and Ex-Barrier / Zone 2.

Installation notes: In Class 1, Division 2 installations, the subject equipment shall be mounted within a tool secured enclosure which is capable of accepting one or more of the Class 1, Division 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70) or the Canadian Electrical Code (C22.1).



Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC



Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axx modules.

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axx modules.

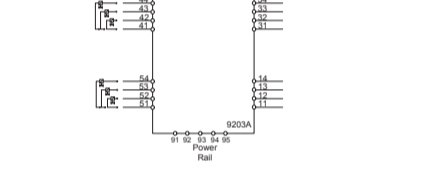
Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axx modules.

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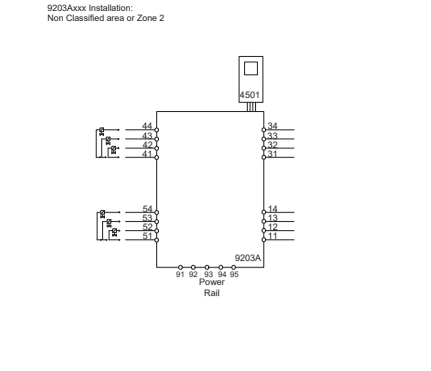
Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axx modules.

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axx modules.



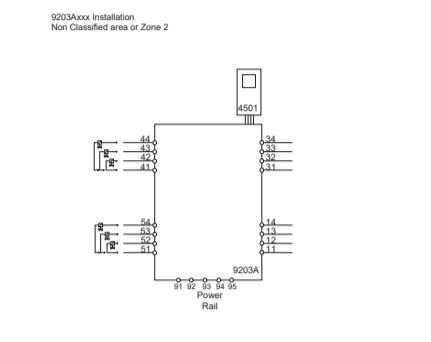
Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC



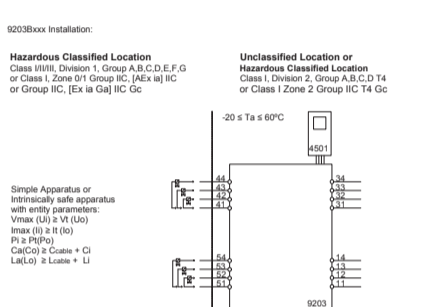
Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC



Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC



Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

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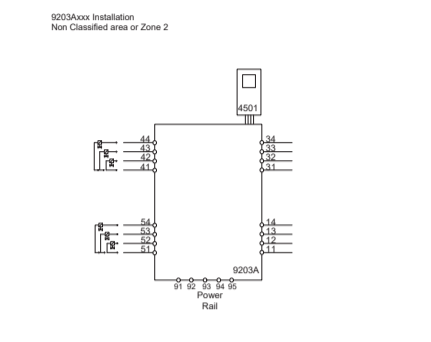
Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

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Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.



Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC

# INMETRO Desenhos para Instalação 9203QB01-V7R0

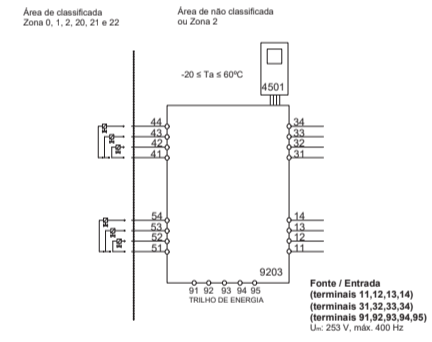
Para instalação segura do 9203B o manual seguinte deve ser observado. O módulo deve ser instalado somente por profissionais qualificados que estão familiarizados com as leis nacionais e internacionais, diretivas e normas que se aplicam a esta área.

Para instalação na Zona 2 o seguinte deve ser observado. O módulo de programação de 4501, deve ser utilizado apenas com os módulos PFElectronics. É importante que o módulo esteja intacto e não tenha sido alterado ou modificado de qualquer maneira. Apenas os módulos 4501 livres de poeira e umidade devem ser instalados.

INMETRO Certificado: DEKRA 16.0006X
Marcas 9203Bxx: [Ex ia Ga] IIC/IB/IIA Ex ia IIC Ex ia IIC 14 Gc [Ex ia] IIC I [Ex ia M] I
Normas: ABNT NBR IEC 60079-0:2013, ABNT NBR IEC60079-11:2013, ABNT NBR IEC60079-15:2012

Table with 5 columns: Tipo, Instalação, Saída, Canais, Entrada. Rows for 9203 Bateria Ex / Zona 2 and Corrente alta / Zone 2.

Notas de instalação: Instalação em grau de poluição 2, categoria de sobretensão II conforme definido no IEC 60664-1. Os circuitos não intrinsecamente seguros só podem ser conectados para sobretensão limitada ao categoria III como definido no IEC 60664-1.



Terminal (31,32) Fonte: Voltage 19.2 - 31.2 VDC Potência máx. 3.5 W
Terminal (11,12 e 13,14) Entrada: Voltagem máx. 28VDC Gatilho: NPN Baixo < 2V, Alto > 4V Gatilho: PNP Baixo < 8V, Alto > 10V

Terminal (33,34) Relé de Estado: Área de não classificada Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Instalação Zona 2 Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

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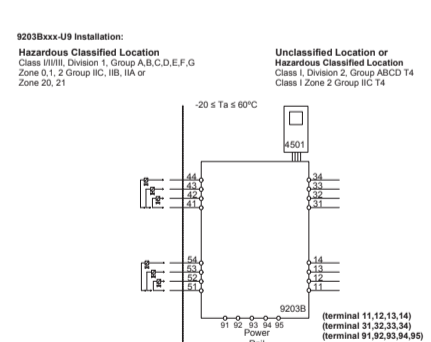
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Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.



Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Class 1 Division 2 or Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

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Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

Table with 4 columns: Co, Lo, Lo/Ro, Co, Lo, Lo/Ro. Rows for 9203Bxx and 9203Axxx modules.

# UL Installation drawing 9203QU01-V1R0

For safe installation of the Process Control Equipment (Associated Apparatus) 9203 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

For installation in DIV2 Zone 2 the following must be observed. The 4501 programming module is to be used solely with PFElectronics modules. It is important that the module is undamaged and has not been altered or modified in any way. Only 4501 modules free of dust and moisture shall be installed.

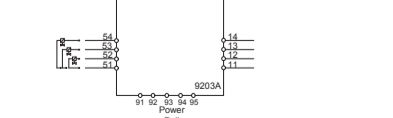
Model: 9203abud-U9 Solemnid / alarm driver
A or B See below
a or b See below
c or d See below
e or f See below
g or h See below
i or j See below
k or l See below
m or n See below
o or p See below
q or r See below
s or t See below
u or v See below
w or x See below
y or z See below

Marking: Proc. Cont. Eq. for Use in Haz. Loc.
Install in CL 1 DIV2 GP AD 14
IS circuits to CL 1 III DIV 1 GP A-G
or CL 1 Znd GP IC 14 provides IS
circuits for CL 1 Znd GP IC22000 GP IIC
Um=253V [Ex ia] Installation Drawing: 9203QU01

Model: 9203abud-U9 Solemnid / alarm driver
A or B See below
a or b See below
c or d See below
e or f See below
g or h See below
i or j See below
k or l See below
m or n See below
o or p See below
q or r See below
s or t See below
u or v See below
w or x See below
y or z See below

Marking: Proc. Cont. Eq. for Use in Haz. Loc.
Install in CL 1 DIV2 GP AD 14
IS circuits to CL 1 III DIV 1 GP A-G
or CL 1 Znd GP IC 14 provides IS
circuits for CL 1 Znd GP IC22000 GP IIC
Um=253V [Ex ia] Installation Drawing: 9203QU01

Standards:
- UL 1201 NONHAZARDOUS ELECTRICAL EQUIPMENT FOR USE IN CLASS 1 AND 2, DIVISION 2 AND CLASS II, DIVISIONS 1 AND 2 HAZARDOUS (CLASSIFIED) LOCATIONS - Edition 3 - Revision Date 2010/01/18
- CSA C22.2 NO. 213 NONHAZARDOUS ELECTRICAL EQUIPMENT FOR USE IN CLASS 1 AND 2, DIVISION 2 AND CLASS II, DIVISIONS 1 AND 2 HAZARDOUS (CLASSIFIED) LOCATIONS - Edition 3 - Issue Date 2010/01/18
- UL 913 STANDARD FOR INTRINSICALLY SAFE APPARATUS AND ASSOCIATED APPARATUS FOR USE IN CLASS 1, II, DIVISION 1, HAZARDOUS (CLASSIFIED) LOCATIONS - Edition 3 - Revision Date 2010/01/18
- CSA C22.2 NO. 60079-0 EXPLOSIVE ATMOSPHERES - PART 0: EQUIPMENT - GENERAL REQUIREMENTS - Edition 3 - Issue Date 2010/01/18
- CSA C22.2 NO. 60079-11:14 EXPLOSIVE ATMOSPHERES - PART 11: EQUIPMENT PROTECTION BY INTRINSIC SAFETY 11 - Edition 2 - Issue Date 2014/02/01



Terminal (31,32) Supply: Voltage 19.2 - 31.2 VDC Power max. 3.5 W
Terminal (11,12 and 13,14) Input: Voltage max 28VDC Trig: NPN Low < 2V, High > 4V Trig: PNP Low < 8V, High > 10V

Terminal (33,34) Status Relay: Non Hazardous location Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 AAC / 0.3 ADC
Class 1 Division 2 or Zone 2 Installation Voltage max. 32 VAC / 32 VDC Power max. 16 VA / 32 W Current max. 0.5 AAC / 1 ADC

Terminal (41,44 / 51, 54) Umax 28 V Imax 135 mA Pmax 0.95 W

# Installation notes 9203Axxx-U9 and 9203Bxxx-U9

The module must be installed in a tool-secured enclosure suitable for the application in accordance with the National Electrical Code (ANSI/NFPA 70) for installation in the United States, the Canadian Electrical Code for installations in Canada, or other local codes, as applicable.

The module is galvanically isolated and does not require grounding.

Terminal 41, 42, 43, 44 are internally connected to CH1. Terminal 51, 52, 53, 54 are internally connected to CH2.

Install in pollution degree 2, overvoltage category II in accordance with IEC 60664-1. Use minimum 75 °C copper conductors with wire size AWG: (26-14).

Warning: Substitution of components may impair intrinsic safety and/or fire protection. Do not substitute components for the original components.

Warning: To prevent ignition of the explosive atmosphere, disconnected power before servicing and do not separate connectors, install or remove modules from Power Rail when energized and an explosive gas mixture is present.

Warning: To prevent ignition of the explosive atmosphere, disconnected power before servicing and do not separate connectors, install or remove modules from Power Rail when energized and an explosive gas mixture is present.

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# Installation notes 9203Bxxx-U9

Associated Equipment (Appareilles Associées) [Ex ia]

The Ex output current of this associated apparatus is limited by a resistor such that the output voltage-current plot is a straight line down between open-circuit voltage and short-circuit current.

Selected intrinsically safe equipment must be third party listed as intrinsically safe for the application, and have intrinsically safe entry parameters conforming with Table 1 below.

TABLE 1: I.S. Equipment Associated Apparatus. U max (or U) = V oc or V t (or U) I max (or I) = I sc or I (or I) P max, P a = P o C = Cable s Ca (or Co) L = Load s La (or Lo)

The module may also be connected to a simple apparatus as defined in Article 504.2 and installed and temperature classified in accordance with Article 504.100) of the National Electrical Code (ANSI/NFPA 70), or other local codes, as applicable.

Capacitance and inductance of the field wiring from the intrinsically safe equipment to the associated apparatus shall be calculated and must be included in the system calculations as shown in Table 1. Cable capacitance, Cable, plus intrinsically safe equipment capacitance, C must not be greater than the marked capacitance, Ca (or Co), shown on any associated apparatus used. The same applies for inductance (Cable, L and La (or Lo), respectively). Where the cable capacitance and inductance per foot are not known, the following values shall be used: Cable = 60 pF/ft, Cable = 0.2 µH/ft.

Where multiple circuits extend from the same piece of associated apparatus, they must be installed in separate cables or in one cable having suitable insulation. Refer to Article 504.300) of the National Electrical Code (ANSI/NFPA 70) and Instrument Society of America Recommended Practice ISA 801.00 for installing intrinsically safe equipment.

Intrinsically safe circuits must be wired and separated in accordance with Article 504.20 of the National Electrical Code (ANSI/NFPA 70) or other local codes, as applicable.

The module has not been evaluated for use in combination with another associated apparatus.

For installations in which both the Co and Lo of the intrinsically safe apparatus exceeds 1% of the Ca (or Co) and La (or Lo) parameters of the associated apparatus (excluding the cable), then 50% of Ca (or Co) and La (or Lo) parameters are applicable and shall not be exceeded. The reduced capacitance shall not be greater than 1 µF for Groups C and D, and 600 nF for Groups A and B. The values of Ca (or Co) and La (or Lo) determined by this method shall not be exceeded by the sum of all of Co plus cable capacitance and the sum of all of La plus cable inductances in the circuit respectively.

Intrinsically safe circuits must be wired and separated in accordance with Article 504.20 of the National Electrical Code (ANSI/NFPA 70) or other local codes, as applicable.

The module has not been evaluated for use in combination with another associated apparatus.

For installations in which both the Co and Lo of the intrinsically safe apparatus exceeds 1% of the Ca (or Co) and La (or Lo) parameters of the associated apparatus (excluding the cable), then 50% of Ca (or Co) and La (or Lo) parameters are applicable and shall not be exceeded. The reduced capacitance shall not be greater than 1 µF for Groups C and D, and 600 nF for Groups A and B. The values of Ca (or Co) and La (or Lo) determined by this method shall not be exceeded by the sum of all of Co plus cable capacitance and the sum of all of La plus cable inductances in the circuit respectively.

Intrinsically safe circuits must be wired and separated in accordance with Article 504.20 of the National Electrical Code (ANSI/NFPA 70) or other local codes, as applicable.

The module has not been evaluated for use in combination with another associated apparatus.

For installations in which