

ATEX Installation drawing 9106QA01 – V5R0

For safe installation of 9106B the following must be observed. The module shall only be installed by qualified personnel who have the national and international laws, directives and standards that apply to the first two digits in the serial number.

4501
For installation in Zone 2 the following must be observed.
The 4501 programming module is to be used solely with PR electronics 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.

9106B1A: 1 channel HART®-transparent repeater (27.5 V Barier)
9106B1B: 2 channel HART®-transparent repeater (27.5 V Barier)
9106B2A: 1 channel HART®-transparent repeater (25.3 V Barier)
9106B2B: 2 channel HART®-transparent repeater (25.3 V Barier)

ATEX Certificate DEKRA 1.ATEX0244X
II (1) [Ex ia Ga] IIC/IIIA

Marking II (1) [Ex ia Ga] IIC/IIA
II (1D) [Ex ia Dc] IIC/IIA
I (M1) [Ex ia Ma]

Standards EN 60079-11:2012+A11, EN 60079-11:2012,
EN 60079-15:2010

Supply terminal (31.32)
Voltage: 19.2 – 31.2VDC

Status relay terminal (33.34)
Voltage max.: 125 VAC / 110 VDC
Power max.: 62.5 VA / 32 W
Current max.: 0.5 A AC / 0.3 ADC

Installation notes:
Install in pollution degree 2, overvoltage category II as defined in IEC60664-1

No 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.

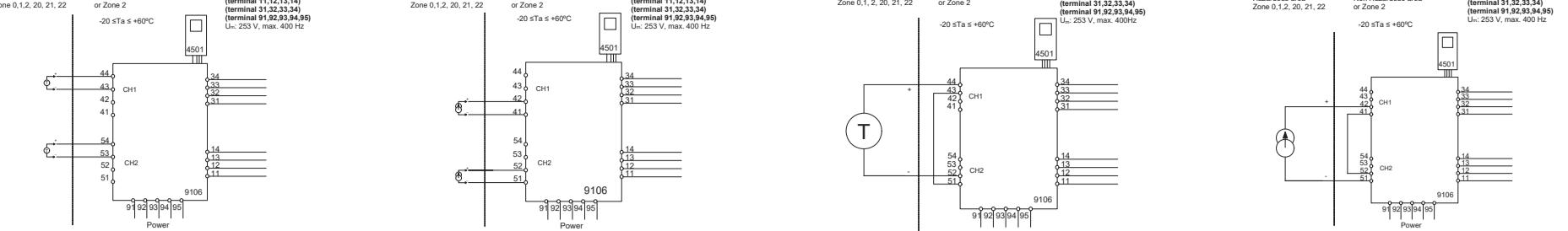
The wiring of unused terminals is not allowed.

The Loop Supply and Current Input terminals for the same channel shall not be applied at the same time.

In type of protection [Ex ia Da] the parameters for intrinsic safety for gas group IIIB are applicable.

For installation in Zone 2, the module shall be installed in an enclosure in type of protection Ex n or Ex e, providing a degree of protection of at least IP54. Cable entry devices and blanking elements shall fulfill the same requirements.

For installation on Power Rail in Zone 2, only Power Rail type IIIB supplied by Power Control Unit type 9410 (Type Examination Certificate KEMA 07ATEX0152 X) is allowed.



IECEx Installation drawing 9106QI01 – V5R0

For safe installation of 9106B the following must be observed. The module shall only be installed by qualified personnel who have the national and international laws, directives and standards that apply to the first two digits in the serial number.

4501
For installation in Zone 2 the following must be observed.
The 4501 programming module is to be used solely with PR electronics 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.

9106B1A: 1 channel HART®-transparent repeater (27.5 V Barier)
9106B1B: 2 channel HART®-transparent repeater (27.5 V Barier)
9106B2A: 1 channel HART®-transparent repeater (25.3 V Barier)
9106B2B: 2 channel HART®-transparent repeater (25.3 V Barier)

IECEx Certificate IECEx DEM 11.0084X
[Ex ia Ga] IIC/IIIA

Marking Ex ia IIC T4 Gc
[Ex ia Da] IIC
[Ex ia Ma]

Standards IEC60079-15:2010, IEC60079-11:2011, IEC60079-0:2011

Supply terminal (31.32)
Voltage: 19.2 – 31.2VDC

Status relay terminal (33.34)
Voltage max.: 125 VAC / 110 VDC
Power max.: 62.5 VA / 32 W
Current max.: 0.5 A AC / 0.3 ADC

Installation notes:
Install in pollution degree 2, overvoltage category II as defined in IEC60664-1

No 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.

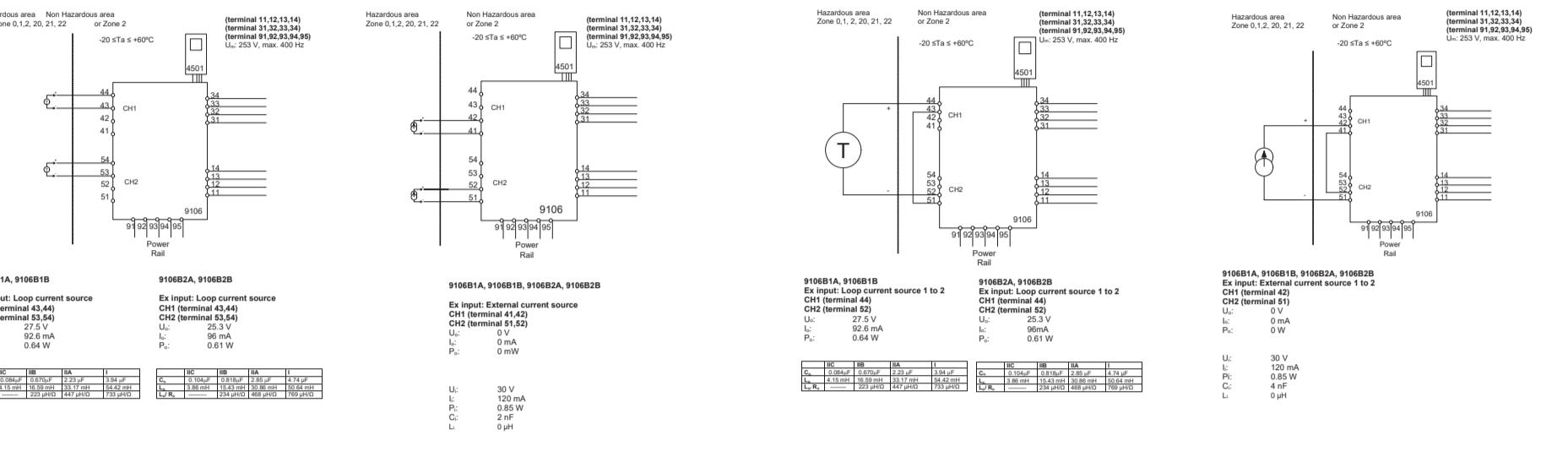
The wiring of unused terminals is not allowed.

The Loop Supply and Current Input terminals for the same channel shall not be applied at the same time.

In type of protection [Ex ia Da] the parameters for intrinsic safety for gas group IIIB are applicable.

For installation in Zone 2, the module shall be installed in an enclosure in type of protection Ex n or Ex e, providing a degree of protection of at least IP54. Cable entry devices and blanking elements shall fulfill the same requirements.

For installation on Power Rail in Zone 2, only Power Rail type IIIB supplied by Power Control Unit type 9410 (Type Examination Certificate KEMA 07ATEX0152 X) is allowed.



FM Installation drawing 9106QF01 – V5R0

For safe installation of 9106B the following must be observed. The module shall only be installed by qualified personnel who have the national and international laws, directives and standards that apply to the first two digits in the serial number.

4501
For installation in Div2Zone2 the following must be observed.
The 4501 programming module is to be used solely with PR electronics 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.

HART®-Repeater
• Barrier (1 + 27.5 barrier + 25.3 barrier)
• Channel 1: Single; B: Double

Supply terminal (31.32)
Voltage: 19.2 – 31.2VDC

Status relay terminal (33.34)
Voltage max.: 125 VAC / 110 VDC
Power max.: 32 VA / 32 W
Current max.: 0.5 A AC / 0.3 ADC

Installation notes:
In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-sealed enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the National Electrical Code (ANSINFPA 70), or other local codes, as applicable.

In Class I, Zone 1 installations, the subject equipment shall be mounted within a tool-sealed enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the National Electrical Code (ANSINFPA 70), or other local codes, as applicable. Where installed in outdoor or potentially wet locations, the enclosure shall, at a minimum, meet the requirements of IP54.

Install in environments rated Pollution Degree 2 or better, overvoltage category I or II.

The equipment shall be installed in an enclosure with a minimum ingress protection rating of IP54 unless the apparatus is intended to be an equivalent degree of protection by location.

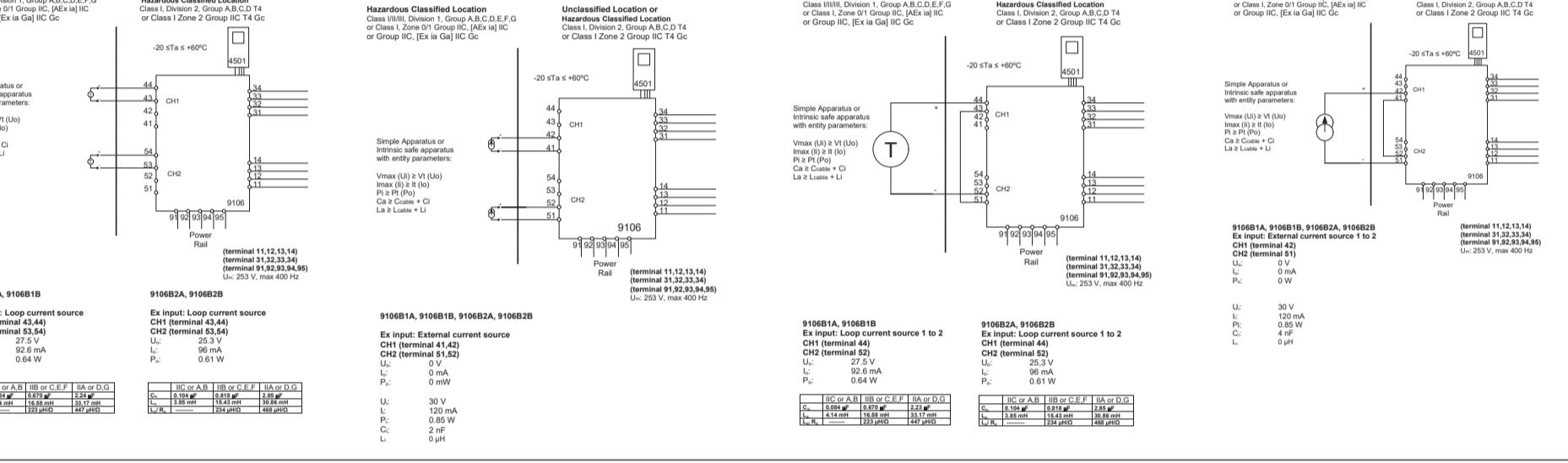
The module is galvanically isolated and does not require grounding.

Use 60/75°C copper conductors with size AWG (26-14).

Warning: Substitution of components may impair intrinsic safety.

Warning: To prevent ignition of the explosive atmospheres, disconnect 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: The Loop Supply and Current Input terminals for the same channel shall not be applied at the same time. The wiring of unused terminals is not allowed.



INMETRO - Desenhos para Instalação 9106QB01 – V5R0

Para instalação segura no 9106B manual seguir deve ser observado. O módulo deve ser instalado somente por profissionais qualificados que estejam familiarizados com as leis nacionais e internacionais, diretrizes e normas que se aplicam a esta área.

Ano de fabricação pode, obviamente, diferir da data dos dois primeiros dígitos do número de série.

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

9106B1A: 1 canal HART®-receptor transparente (Barreira 27.5 V)
9106B1B: 2 canais HART®-receptor transparente (Barreira 27.5 V)
9106B2A: 1 canal HART®-receptor transparente (Barreira 25.3 V)
9106B2B: 2 canais HART®-receptor transparente (Barreira 25.3 V)

INMETRO Certificado DEKRA 1.ATEX0244X

Marcas Ex ia Ga IIC/IIA
Ex ia IC/IC T4 Gc
[Ex ia Da] IIC
[Ex ia Ma]

Normas ABNT NBR IEC 60079-0:2013, ABNT NBR IEC60079-11:2013, ABNT NBR IEC60079-15:2006

Terminals of alimentation (31.32)
Voltage: 19.2 – 31.2VDC

Relé de estado terminal (33.34)
Voltage max.: 125 VAC / 110 VDC
Power max.: 32 VA / 32 W
Current max.: 0.5 A AC / 0.3 ADC

Notas de instalação:

Instalar no ambiente de gradação 2, categoria de sobrevoltagem II conforme definido no IEC 60664-1

Não separar conectores quando energizado ou quando uma mistura de gás explosivo estiver presente.

No enterramento ou remoção de módulos do bloco de alimentação quando uma mistura de gás estiver presente.

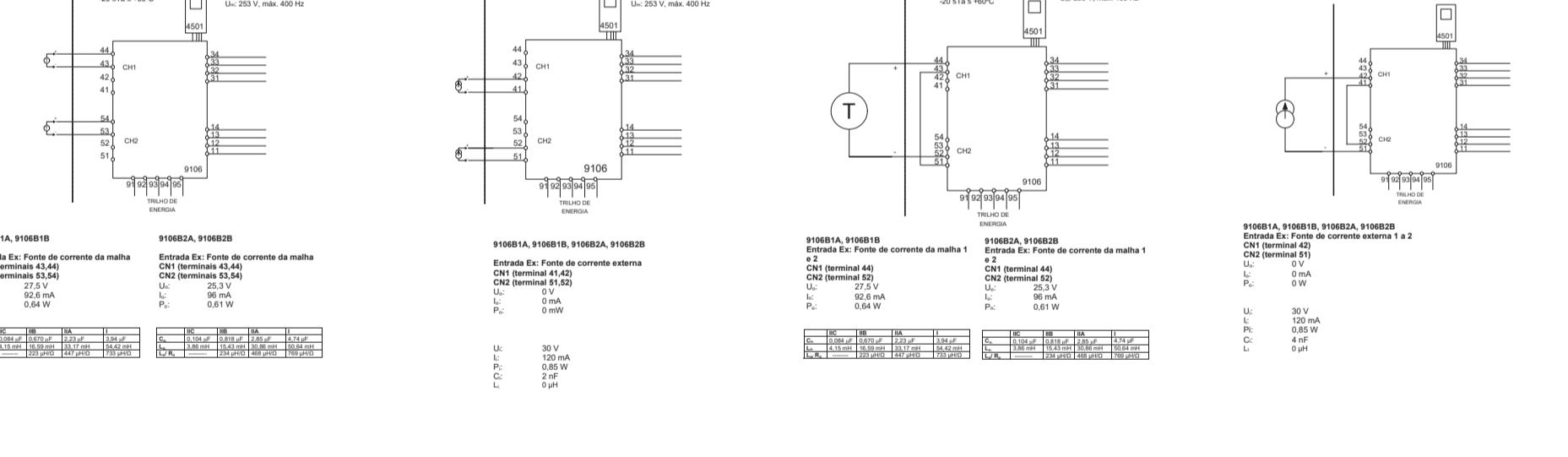
Desligar o módulo antes da manutenção.

A fiação de terminais sem uso não é permitida.

É tipo de proteção [Ex ia Da] para a segurança intrínseca para gases de gás IIB.

Para a instalação em Zona 2, o módulo deve ser instalado em um invólucro certificado conforme as normas da série ABNT NBR IEC 60079 que proporcionem proteção de pelo menos IP54. Os conectores de cabos e terminais de vedação devem cumprir com os mesmos requisitos.

Para a instalação de trilho de energia na Zona 2, apenas o trilho de alimentação Rail 9400 fornecido pela Unidade de Controle de Potência 9410 é permitido.



UL Installation drawing 9106QF01 – V1R0

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HART®-Repeater
• 1 channel HART®-receptor transparente (Barreira 27.5 V)

9106B1A: 1 canal HART®-receptor transparente (Barreira 27.5 V)

9106B1B: 2 channel HART®-receptor transparente (Barreira 27.5 V)

9106B2A: 1 channel HART®-receptor transparente (Barreira 25.3 V)

9106B2B: 2 channel HART®-receptor transparente (Barreira 25.3 V)

Marking:

Proc. Cont. Ex. Use for in Haz. Loc.

9106B1A: 1 channel HART®-receptor transparente (Barreira 27.5 V Barier)

9106B1B: 2 channel HART®-receptor transparente (Barreira 27.5 V Barier)

9106B2A: 1 channel HART®-receptor transparente (Barreira 25.3 V Barier)

9106B2B: 2 channel HART®-receptor transparente (Barreira 25.3 V Barier)

ATEX Certificate DEKRA 1.ATEX0244X

Marking II (1) [Ex ia Ga] IIC/IIA

II (1D) [Ex ia Dc] IIC/IIA

I (M1) [Ex ia Ma]

Standards EN 60079-11:2012+A11, EN 60079-11:2012, EN 60079-15:2010

Supply terminal (31.32)
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Status relay terminal (33.34)

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Installation notes:

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No 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.

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