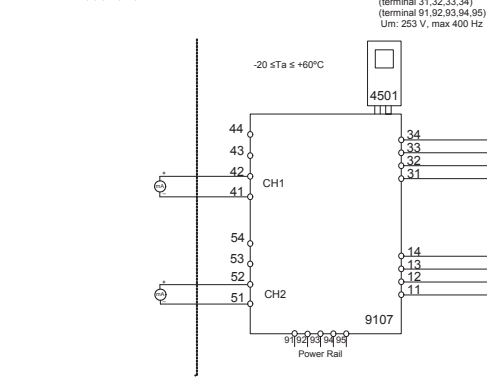


   PRR 1840 RØNDE DENMARK	PRR 1840 RØNDE DENMARK IECEX Installation drawing For safe installation of 9107 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area. Year of manufacture can be taken from the first two digits in the serial number. For installation in Zone 2 the following must be observed. The 4501 programming module is to be used solely with Intrinsically Safe 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. 9107BA 1 channel HART® - transparent driver 9107BS 2 channel HART® - transparent driver IECEX Certificate IECEx DEX 11.0088X Ex ia Ga IIC TxBTGA Ex ia Ga IIC Ex e A Marking 9107BS, 9107BA Ex e A nC IIC Td Gb Standards IEC60079-11:2011, IEC60079-6:2015, IEC60079-5:2017 IEC60079-7:2015+A1:2017 Supply terminal (31,32) 192 – 31 2 VDC Status Relay, terminal (33,34) 32 VAC / 120 VAC Voltage max. 125 VAC / 110 VDC Power max. 62.5 VA / 32 W Current max. 0.5 A AC / 0.3 A DC Installation notes: Install in pollution degree 2, overvoltage category II as defined in IEC 60664-1. Do not separate conductors when energized and an explosive gas mixture is present. Do not moisten or remove modules from the Power Rail when an explosive gas mixture is present. Disconnect power before servicing. The entry of air used terminals is not allowed. In type of protection [Ex] the parameters for intrinsic safety are given in table III are applicable. For installation in Zone 2, the module shall be installed in an enclosure (type of protection Ex or Ex e), providing a degree of protection of at least IP2X. Cable entry devices and blanking elements shall all be the same requirements. For installation on Power Rail in Zone 2, only Power Rail type 9400 supplied by Power Control Unit 9410 (9410 Type Certification Certificate NEMA 917ATEX152) is allowed.	Hazardous area Zone 0, 1, 2, 21, 22 Non Hazardous area or Zone 2  CH1 (terminal 41,42) CH2 (terminal 51,52) <table border="1"> <thead> <tr> <th>DC</th> <th>AC</th> <th>AA</th> <th>AB</th> </tr> </thead> <tbody> <tr> <td>U₀ 0.580 V</td> <td>0.650 V</td> <td>15 mV</td> <td>1.76 mV</td> </tr> <tr> <td>I₀ 4 mA</td> <td>16 mA</td> <td>32 mA</td> <td>35 mA</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>DC</th> <th>AC</th> <th>AA</th> <th>AB</th> </tr> </thead> <tbody> <tr> <td>U₀ 0.580 V</td> <td>0.650 V</td> <td>15 mV</td> <td>1.76 mV</td> </tr> <tr> <td>I₀ 4 mA</td> <td>16 mA</td> <td>32 mA</td> <td>35 mA</td> </tr> </tbody> </table>	DC	AC	AA	AB	U ₀ 0.580 V	0.650 V	15 mV	1.76 mV	I ₀ 4 mA	16 mA	32 mA	35 mA	DC	AC	AA	AB	U ₀ 0.580 V	0.650 V	15 mV	1.76 mV	I ₀ 4 mA	16 mA	32 mA	35 mA
DC	AC	AA	AB																							
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Revision date 2020-06-18	Version Revision V4 10 Prepared by PB Page 1/3	Revision date 2020-06-18 Version Revision V4 10 Prepared by PB Page 2/3																								

9107QI01

LERBAKKEN 10, 8410 RØNDE DENMARK

9107Ae, 9107Bis Installation:

Hazardous area

Zone 2

Power Rail

Supply: 19...2 - 31.2 VDC
(terminal 31,32)
(terminal 91,92,93,94,96)

Input:
(terminal 11,12,13,14)

Output

CH1 (terminal 41,42)

CH2 (terminal 51,52)

Status Relay terminal (33,34)

Voltage max: 120 VAC / 110 VDC

Power max: 62.5 VA / 32 W

Current max: 0.5 A AC / 0.3 A DC

Zone 2 Installation

32 VAC / 32 VDC

16 VA / 32 W

0.5 A AC / 0.3 A DC

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 fulfil the same requirements.

For installation on Power Rail in Zone 2, only Power Rail type 9400 supplied by Power Control Unit type 9400 (Certificate IECEx KEM 09 02295) is allowed.

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

Revision date 2020-06-18	Version Revision V4 R0	Prepared by PR	Page 3/3
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 PR performance	91070KCC1	91070KCC1
LERBAKKEN 10, 8410 RØNDE SCHILK	LERBAKKEN 10, 8410 RØNDE SCHILK	
KC 전선 도면 9107의 모든 전선형 도면과 케이블 도면은 본 도면에 실립니다. 이 도면은 전기적 특성과 관련된 모든 도면과 케이블, 지중 및 표면의 접합된 도면에서 설명되어 있습니다. 모든 도면은 도출된 도면에서 유지되어야 합니다.	케이블 지pec 구경 6.2, 26, 22	비행선 지pec 모든 구경 2 (구경 13.32, 13.16) (구경 10.32, 10.16) (구경 12.32, 12.16) (구경 10.32, 10.16)
구경 2.6 및 설명되어 있는 사양을 준수하여야 합니다. 4501 프로그램은 모든 PR의 4501을 모든 PR에 적합하게 사용할 수 있도록 설계되었습니다. 모든 케이블은 4501에 연결된 케이블을 준수하여야 합니다. 모든 케이블은 4501에 연결된 케이블을 준수하여야 합니다. 모든 케이블은 4501에 연결된 케이블을 준수하여야 합니다.		
5127BA 5127BA	1 케이블 HART, 1 케이블 HART 2 케이블 HART, 2 케이블 HART	
KC 전선형 21-AVH80-01726 21-AVH80-01726	21-AVH80-01726 21-AVH80-01726	
KC 전선형 21-AVH80-01726 21-AVH80-01726	21-AVH80-01726 21-AVH80-01726	
케이블 EC60079-1.101, EC60079-0.201, EC60079-1.5, 2017 EC60079-1.101, EC60079-0.201, EC60079-1.5, 2017	EC60079-1.101, EC60079-0.201, EC60079-1.5, 2017 EC60079-1.101, EC60079-0.201, EC60079-1.5, 2017	
공급 단계 (11.32) 10.2 - 31.2 VDC		
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	
전선 설명 12VDC/1.5VDC 12VDC/1.5VDC	12VDC/1.5VDC 12VDC/1.5VDC	

PR
POWER RANGERS

9107QKCC#

LERBAKKEN 10, 8410 RØNDE DENMARK

설치:

비밀 지역
구체 2

국문 19.2 - 11.2 VDC
(전압 19.2, 11.2)
입력 19.2, 11.2, 19.2, 11.2)

출력

CH1 (입력 11.2)
CH2 (입력 11.2)

입력
(전압 11.2, 11.2, 11.2)

상대 전력, 단위 [13.34]

최대 전압	125 VAC / 110 VDC	구분 2 출력
최대 출력	62.5 VA / 32 W	32 VAC / 32 VDC
최대 전류	0.5 AAC / 0.3 ADC	16 VA / 32 W
최대 전압	0.5 AAC / 0.3 ADC	0.5 AAC / 1 ADC

구분 2에 설치하는 경우, 모듈을 보호 용량 5x n 또는 5x n 인 입력용에서 설치하고, 최소한 IP54의 보호 수준을 제공하는 것입니다. 커패시터 및 기타 부품은 모든 부품이 요구 사항을 충족해야 합니다.

구분 2의 최대 제동률 설치하는 경우, 전체 제어 장치 유형 9410 인증서 KECx KEM 08.002500의 공급을 받는 최적 제품 용량 9400 만 허용됩니다.

구분 2에 설치하려면 다른 서빙 콘솔에 H4C1-4501 프로세서와 같은 PRC를 모듈과 함께 사용해야 합니다. 모듈이 손상되지 않았고, 어떤 식으로도 변형 또는 수정되지 않는 것이 중요합니다. 면허 습기가 없는 인터넷 H4501 모듈을 설치해야 합니다.

Revision date:
2024-02-29

Version Revision
V1 RD

Prepared by
TJCE

Page
3/3



9107QF01

LERBAKKEN 10, 8410 RØNDE DENMARK



9107QF01

LERBAKKEN 10, 8410 RØNDE DENMARK

FM Installation drawing

For safe installation of 9107/8 the following must be observed. The module that only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

Year of manufacture can be taken from the first two digits of the serial number.

For Installation in Zone 2 the following must be observed.

The 4501T programming module is to be used solely with the Installation modules. It is important that the module is undamaged and has not been opened or modified in any way. Only 4501T modules free of dust and moisture shall be installed.

91078A: 1 channel **HART®** -transparent driver
91078B: 2 channel **HART®** -transparent driver

Supply terminal (1,3,2)

Voltage: 19.2 – 31.2 VDC

Status Relay: terminal (3,3,4)

Voltage max: 125VAC / 110VDC
Current max: 0.5A AC / 0.3A DC

Zone 2 installation:

Voltage: 32VAC / 32VDC
Power max: 15Watt / 32W
Current max: 0.5A AC / 1A DC

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 Canadian Electrical Code (CEC 22.1).

In Class 1, Zone 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, Zone 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (CEC 22.1). Where restriction on 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 3 or 1.

The equipment to be installed in an environment with a minimum ingress protection rating of IP54 unless the application is intended to be an equivalent degree of protection for location.

The module is generally installed and does not require grounding.

Use only 7/8" copper conductors with wire size AWG (26-14).

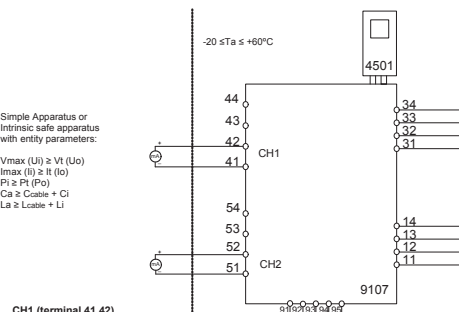
Warning: Substitution of components may impair internal safety.

Warning: To prevent ignition of the explosive atmosphere, disconnect power before servicing and do not separate connectors when energized and an explosive gas mixture is present.

Warning: Do not install or remove components from the Power Bus! An explosive gas mixture is present.

Hazardous Classification:
Class II, Division 1, Group A,B,C,D,E,F,G
or Class II, Division 2, Group A,B,C,D,E,F,G
or Group IBC, IEx Ia IEx IIC Gc

Unclassified Location:
Class I, Zone 0
or Class I, Zone 1
or Class I, Zone 2
or Class I, Zone 2
or Class I, Zone 2



CH1 (terminal 41,42)
CH2 (terminal 41,42)
Power Rail

Terminal Block:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Specifications:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Sizes:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Types:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Colors:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Lengths:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Spacing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Bundling:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Labeling:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Marking:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Identification:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Documentation:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Maintenance:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Replacement:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Installation:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Removal:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Testing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Inspection:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Cleaning:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Lubrication:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Painting:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Sealing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Shielding:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Grounding:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Bonding:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Soldering:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Welding:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Splicing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Joining:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Separation:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Protection:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Support:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Routing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Labeling:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Marking:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Identification:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Documentation:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Maintenance:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Replacement:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Installation:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Removal:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Testing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Inspection:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Cleaning:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Lubrication:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Painting:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Sealing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Shielding:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Grounding:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Bonding:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Soldering:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Welding:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Splicing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Joining:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Separation:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Protection:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Support:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Routing:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Labeling:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Marking:
19.2V
31.2V
0.5A AC
0.3A DC

Wire Identification:
19.2V
31.2V
0.5A AC
0.3A DC

Wire

[illegible][illegible]

PR
PREFEITURA DE RIO DE JANEIRO

PR
PREFEITURA DE RIO DE JANEIRO

9107QB01

9107QB01

LERBAKKEN 10, 8410 RØNDE DENMARK

LERBAKKEN 10, 8410 RØNDE DENMARK

INMETE - Desenhos para Instalação

Para instalação segundo os 9107B e 9107A o manual seguinte deve ser observado. O módulo deve ser instalado somente por profissionais qualificados que estão familiarizados com os riscos elétricos e a norma que se aplica e está em conformidade com as normas locais e nacionais.

Ao de fabricação pode ser obtido a partir dos dois primeiros dígitos do número de série.

Para instalação na Zona 2 o módulo deve ser observado. O módulo de programação 4501, deve ser utilizado para a programação da S.E. eletrônica. É importante que o módulo esteja intacto e não tenha sido alterado ou modificado de qualquer maneira. Apenas os módulos 4501 livres de energia e um módulo devem ser instalados.

9107BA: 1 canal HART® - driver transparente
9107BB: 2 canais HART® - driver transparente

INMETE Certificado DEKRA 22.004X

Marca 9107B: [X] ou [X] ICHTBA
[X] ou [X] ICHTBA
[X] ou [X] ICHTBA
[X] ou [X] ICHTBA

Marca 9107B, 9107A: [X] ou [X] ICHTBA

Normas: ABNT NBR IEC 60079-0:2020 Versão Corrigida 2022
ABNT NBR IEC 60079-1:2018 Versão Corrigida 2022
ABNT NBR IEC 60079-11:2015 Versão Corrigida 2017
ABNT NBR IEC 60079-12:2015

Terminal de fonte de alimentação (31/32)

Voltagem: 19,2 - 31,2 VDC

Relé de estado terminal (33/34)

Voltagem máx.: 120 VAC / 110 VDC
Potência máx.: 62,5 VA / 32 W
Corrente máx.: 0,55 AAC / 0,3 ADC

Instalação Zona 2

31 VAC / 33 VDC
16 VA / 32 W
0,55 AAC / 0,3 ADC

Notas de instalação:

Instalação em grupo de 20 módulos, categoria de sobretensão II conforme definido na IEC 60064-1. Os circuitos não intrínsecos seguros só podem ser conectados para sobretensão limitado ao categoria III como definido na IEC 60064-1.

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

Não monte ou remova módulos do trilho de alimentação quando uma mistura explosiva de gás estiver presente.

Ative a alimentação antes da manutenção.

A fiação de terminais sem uso não é permitida.

Em tipo de proteção [X] ou [X] de acordo com os parâmetros para a segurança intrínseca para grupo de gás III são aplicáveis.

Para a instalação em Zona 2, o módulo deve ser instalado em um invólucro conformidade com o tipo de proteção "Ex" e, funcionando no mínimo grau de proteção IP54.

Dispositivos de entrada do cabo e elementos de vedação devem cumprir com os mesmos requisitos.

Para a instalação de trilho de energia na Zona 2, apenas o trilho de alimentação Rail 4000 fornecido pela Unidade de Controle de Tráfego RA10-4 é permitido.

Máx. torque terminal de parafuso 0,5 Nm. O fio trançado deve ser instalado com um comprimento de isolamento de 5 mm ou através de um terminal isolado adequado, como um terminal de cabos.

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PR
ELECTRONICS

9107Q401

PR
ELECTRONICS

9107A102

LERBAKKEN 10, 8410 RØNDE DENMARK

LERBAKKEN 10, 8410 RØNDE DENMARK

Área de classificação
Zona 1, 2, 20, 21, 22

Área de não classificação
ou Zona 2

(terminais: 11, 12, 13, 14)
(terminais: 31, 32, 33, 34)
(terminais: 51, 52, 53, 54, 55)
Um: 253 V, máx. 400 Hz

The diagram shows a power supply section with a transformer (T) and a bridge rectifier (BR). The transformer has terminals 44, 43, 42, 41, 54, 53, 52, and 51. The bridge rectifier has terminals 34, 33, 32, 31, 14, 13, 12, and 11. The power supply is connected to terminals 44, 43, 42, 41, 54, 53, 52, and 51. The output is connected to terminals 34, 33, 32, 31, 14, 13, 12, and 11. The power supply is labeled "20 stA ± 100°C".

CH1 (terminais 41,42)
CH2 (terminais 51,52)
U₁: 230 V
I₁: 0,5 A
P₁: 0,65 W

RC	RS	RA	
Ct: 0,000 μF	0,050 μF	2,15 pF	3,78 pF
La: 4 mH	18 mH	20 mH	25 mH

9107A, 9107B:

Área de alto risco
ou Zona 2

The diagram shows a power supply section with a transformer (T) and a bridge rectifier (BR). The transformer has terminals 44, 43, 42, 41, 54, 53, 52, and 51. The bridge rectifier has terminals 34, 33, 32, 31, 14, 13, 12, and 11. The power supply is connected to terminals 44, 43, 42, 41, 54, 53, 52, and 51. The output is connected to terminals 34, 33, 32, 31, 14, 13, 12, and 11. The power supply is labeled "20 stA ± 100°C".

Terminais de alimentação:

19,5 ± 31,2 VDC

(terminal 31,32)

(terminais 91,92,93,94,95)

Entrada:

(terminais 11,12,13,14)

Saída:

CH1 (terminais 41,42)

CH2 (terminais 51,52)

Relé de estado terminais: (33,34)

Voltagem máx.: 125 VAC / 110 VDC

Potência máx.: 82,5 VA / 72 W

Corrente máx.: 0,5 A AC / 0,5 A DC

Instalação Zona 2

32 VAC / 32 VDC

18 VA / 12 W

0,5 A AC / 1 A DC

Para a instalação em Zona 2, o módulo deve ser instalado em um isolador conformidade com o tipo de proteção Ex e, fornecendo no mínimo grau de proteção IP64.
Ligação de entrada de energia deve ser feita com o tipo de conexão adequado sempre com as mesmas regras.

Para a instalação de linha de energia em Zona 2, apóse o fihro de alimentação R400 fornecido pela Unidade de Controle de Potência 9110 e permitido:

Máx. torque terminal de parafusos 0,5 Nm. O fio trançado deve ser instalado com um comprimento de isolamento de 5 mm ou atando de um terminal isolado adequado, como um terminal de cadastro.

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