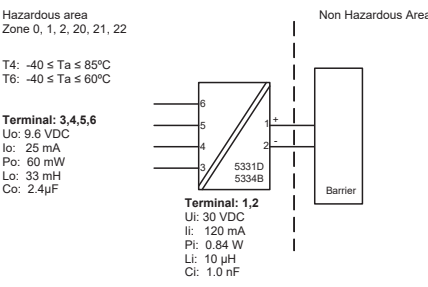


ATEX Installation drawing 5331QA01-V2R0

For safe installation of 5331D or 5334B 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.

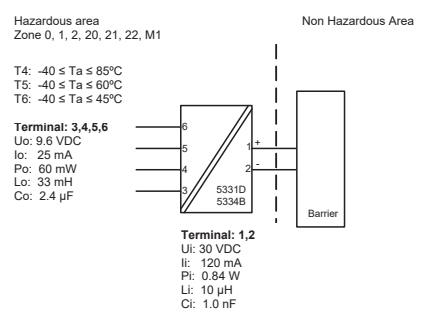
ATEX Certificate KEMA 06ATEX 0062 X
 Marking II 1 G Ex ia IIC T4...T6 Ga
 II 1 D Ex ia IIIC Da
 I M1 Ex ia I Ma
 Standards EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-26 : 2007, EN 60079-15 : 2010



IECEx Installation drawing 5331QI01-V1R0

For safe installation of 5331D or 5334B 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.

Certificate IECEx DEK 13.0035X
 Marking Ex ia IIC T4...T6 Ga
 Ex ia IIIC Da
 Ex ia I Ma
 Standards IEC 60079-0 : 2011, IEC 60079-11 : 2011, IEC 60079-26:2006

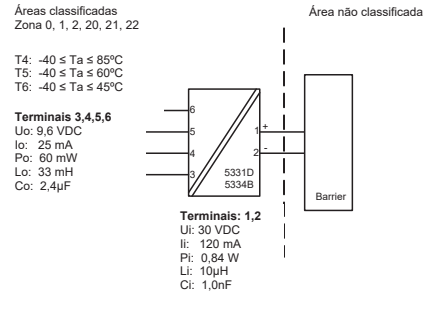


Installation notes:
 The sensor circuit is not infallibly galvanic isolated from the input circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.
 In a potentially explosive gas atmosphere, the transmitter shall be mounted in a metal form B enclosure in order to provide a degree of protection of at least IP20 according to IEC60529.
 If the transmitter is installed in an explosive atmosphere requiring the use of equipment of category 1 G, 1 M or 2, M, and if the enclosure is made of aluminum, it must be installed such, that ignition sources due to impact and friction sparks are excluded.
 If the enclosure is made of non-metallic materials, electrostatic charging shall be avoided.
 For installation in a potentially explosive dust atmosphere, the following instructions apply:
 For explosive dust atmospheres, the surface temperature of the outer enclosure is 20 K above the ambient temperature.
 The transmitter shall be mounted in a metal enclosure form B according to DIN43729 that is providing a degree of protection of at least IP6X according to IEC60529, that is suitable for the application and correctly installed.
 Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.
 For an ambient temperature ≥ 60°C, heat resistant cables shall be used with a rating of at least 20 K above the ambient temperature.
 The surface temperature of the enclosure is equal to the ambient temperature plus 20 K, for a dust layer with a thickness up to 5 mm

Desenho de Instalação INMETRO 5331QB01-V2R0

Para instalação segura do 5331D ou 5334B o seguinte deve ser observado. O modo deve apenas ser instalado por pessoas qualificadas que são familiarizadas com as leis nacionais e internacionais, diretivas e padrões que se aplicam a esta área. Ano de fabricação pode ser pego dos dois primeiros dígitos do número de série.

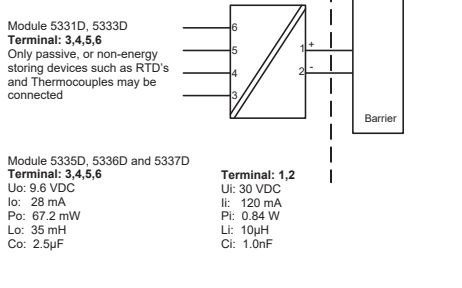
CertificadoDEKRA 16.0013 X
 Marcas Ex ia IIC T6...T4 Ga
 Ex ia IIIC Da
 Normas ABNT NBR IEC 60079-0 : 2013; ABNT NBR IEC 60079-11 : 2013



Notas de instalação:
 O circuito do sensor não é isolado galvanicamente do circuito de entrada de forma infalível. Contudo, a isolamento galvânica entre os circuitos é capaz de resistir a um ensaio de tensão de 500Vac durante 1 minuto.
 Em uma atmosfera de gás potencialmente explosiva, o transmissor deve ser montado em um invólucro a fim de garantir um grau de proteção de no mínimo IP20 de acordo com a ABNT NBR IEC60529. Se contido, o ambiente necessitar de um nível de proteção maior, isso deve ser levado em consideração.
 Se o transmissor é instalado em uma atmosfera explosiva exigindo o uso de equipamento de proteção de nível Ga e se o invólucro é feito de alumínio, ele deve ser instalado de modo que, mesmo em caso remoto de avaria, fontes de ignição devido ao impacto e fricção, faíscas são eliminadas.
 Se o invólucro é feito de materiais não metálicos, cargas eletroestáticas devem ser evitadas.
 Para instalação em atmosfera de poeira potencialmente explosiva, as instruções a seguir são aplicáveis:
 O transmissor deve ser montado em invólucro de metal forma B de acordo com DIN43729 que está fornecendo um grau de proteção de pelo menos IP6X de acordo com a ABNT NBR IEC60529. O invólucro deve ser adequado para aplicação pretendida e instalado corretamente.
 As entradas dos cabos e os elementos de obturação que podem ser utilizados devem ser adequados à aplicação pretendida e corretamente instalados.
 Para temperatura ambiente ≥ 60°C, fios de resistência ao calor devem ser usados com uma faixa de pelo menos 20K acima da temperatura ambiente.
 A temperatura da superfície do invólucro é igual à temperatura ambiente mais 20 K, por uma camada de pó, com espessura de até 5 mm.

CSA Installation drawing 533XQC03 – V4R0

Hazardous area
 T4: -40 ≤ Ta ≤ 85°C
 T6: -40 ≤ Ta ≤ 60°C



CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
 Class I, Division 1, Groups A, B, C and D
 Ex ia IIC, Ga

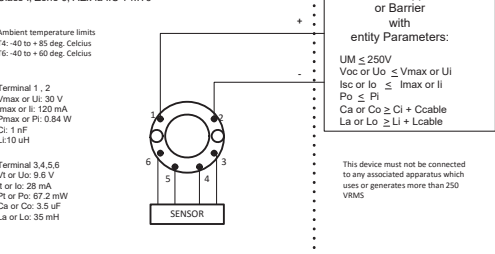
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified to US Standards
 Class I, Division 1, Groups A, B, C and D
 Class I, Zone 0, AEx ia IIC, Ga

Warning:
 Substitution of components may impair intrinsic safety.
 The transmitters must be installed in a suitable enclosure to meet installation codes stipulated in the Canadian Electrical Code (CEC) or for US the National Electrical Code (NEC).

FM Installation Drawing 5300Q502 V2R0

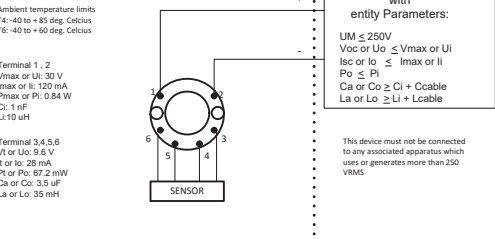
Model 5331D, 5333D and 5343B

Hazardous (Classified) Location
 Class I, Division 1, Groups, A,B,C,D T4, T6
 Class I, Zone 0, AEx ia IIC T4, T6



Model 5335D, 5337D

Hazardous (Classified) Location
 Class I, Division 1, Groups, A,B,C,D T4, T6
 Class I, Zone 0, AEx ia IIC T4, T6

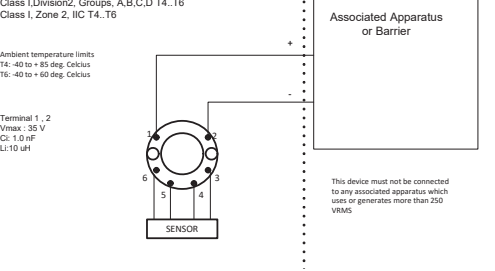


The entity concept
 The Transmitter must be installed according to National Electrical Code (ANSI-NFPA 70) and shall be installed with the enclosure, mounting, and spacing segregation requirement of the ultimate application.
 Equipment that is FM-approved for intrinsic safety may be connected to barriers based on the ENTITY CONCEPT. This concept permits interconnection of approved transmitters, meters and other devices in combinations which have not been specifically examined by FM, provided that the agency's criteria are met. The combination is then intrinsically safe, if the entity concept is acceptable to the authority having jurisdiction over the installation.
 The entity concept criteria are as follows:
 The intrinsically safe devices, other than barriers, must not be a source of power.
 The maximum voltage Ui(VMAX) and current Ii(IMAX), and maximum power Pi(PMAX), which the device can receive and remain intrinsically safe, must be equal to or greater than the voltage (Uo or Voc or Vt) and current (Io or ISC or It) and the power Po which can be delivered by the barrier.
 The sum of the maximum unprotected capacitance (Ci) for each intrinsically device and the interconnect-ing wiring must be less than the capacitance (Ca) which can be safely connected to the barrier.
 The sum of the maximum unprotected inductance (Li) for each intrinsically device and the interconnecting wiring must be less than the inductance (La) which can be safely connected to the barrier.
 The entity parameters Uo,Voc or Vt and Io,ISC or It, and Ca and La for barriers are provided by the barrier manufacturer.

NI Field Circuit Parameters

Model 5331D, 5333D, 5335D, 5337D and 5343B

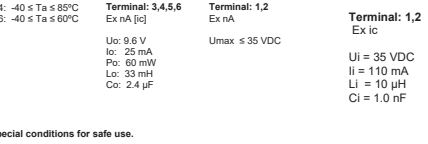
Hazardous (Classified) Location
 Class I, Division 2, Groups, A,B,C,D T4, T6
 Class I, Zone 2, IIC T4, T6



ATEX Installation drawing 5331QA02 – V2R0

For safe installation of 5331A3B or 5334A3B 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.

ATEX Certificate KEMA 10ATEX 0002 X
 Marking II 3 G Ex nA [c] IIC T4...T6 Gc
 II 3 G Ex ic IIC T4...T6 Gc
 II 3 D Ex ic IIIC Dc
 Standards EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-15 : 2010

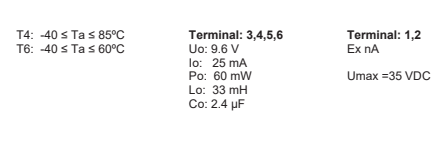


Special conditions for safe use.
 For type of protection Ex nA, the transmitter shall be mounted in a metal enclosure providing a degree of protection of at least IP54 according to EN60529.
 For use in the presence of combustible dusts the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP6X in accordance with EN60529, the surface temperature of the outer enclosure is 20 K above the ambient temperature.
 For an ambient temperature ≥ 60°C, heat resistant cables shall be used with a rating of at least 20 K above the ambient temperature.

IECEx Installation drawing 5331QI02-V1R0

For safe installation of 5331A or 5334A 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.

Certificate IECEx DEK 13.0035X
 Marking Ex nA [c] IIC T4...T6 Gc
 Ex ic IIC T4...T6 Gc
 Ex ic IIIC Dc
 Standards IEC 60079-0 : 2011, IEC 60079-11 : 2011, IEC 60079-15 : 2010

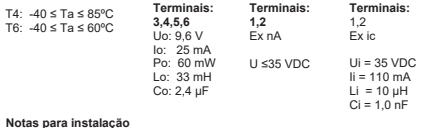


Installation note:
 For installation in a potentially explosive gas atmosphere, the following instructions apply:
 For nA installation the transmitter must be installed in a metal enclosure, e.g. a form B enclosure providing a degree of protection of at least IP54 according to IEC60529 or in an enclosure with type of protection Ex n or Ex e.
 For ic installation the transmitter must be installed in enclosure providing a degree of protection of at least IP20 according to IEC60529 and that is suitable for the application.
 Cable entry devices and blanking elements shall fulfill the same requirements For an ambient temperature ≥ 60°C, heat resistant cables shall be used with a rating of at least 20 K above the ambient temperature.

Desenho de Instalação INMETRO 5331QB02-V2R0

Para instalação segura do 5331A ou 5334A o seguinte deve ser observado. O modo deve apenas ser instalado por pessoas qualificadas que são familiarizadas com as leis nacionais e internacionais, diretivas e padrões que se aplicam a esta área. Ano de fabricação pode ser pego dos dois primeiros dígitos do número de série.

Certificado DEKRA 16.0013 X
 Marcas Ex nA [c] IIC T4...T6 Gc
 Ex ic IIC T4...T6 Gc
 Ex ic IIIC Dc
 Normas ABNT NBR IEC 60079-0 : 2013; ABNT NBR IEC 60079-11 : 2013
 ABNT NBR IEC60079-15 : 2012



Notas para instalação
 Para a instalação em uma atmosfera de gás potencialmente explosivo, aplicam-se as instruções a seguir:
 Para a instalação nA o transmissor deve ser instalado em um invólucro de metal, por exemplo, gabinete em forma B que forneça um grau de proteção de pelo menos IP54 de acordo com a ABNT NBR IEC60529 ou em um invólucro com tipo de proteção Ex n ou Ex e.
 Para a instalação Ex ic o transmissor deve ser instalado em um invólucro proporcionando um grau de proteção IP20 de acordo com a norma ABNT NBR IEC60529. E o invólucro deve, pelo menos, ser adequado para a aplicação e corretamente instalado.
 Dispositivos de entrada de cabos e elementos de supressão devem cumprir os mesmos requisitos.
 Para temperatura ambiente >= 60°C, fios de resistência ao calor devem ser usados com uma faixa de pelo menos 20K acima da temperatura ambiente.
 Para a instalação em uma atmosfera de poeira potencialmente explosiva, aplicam-se as instruções a seguir:
 O transmissor deve ser montado em invólucro de metal forma B de acordo com DIN43729 que está fornecendo pelo menos um grau de proteção IP6X de acordo com a ABNT NBR IEC60529.
 O invólucro deve ser adequado para aplicação e instalado corretamente.
 As entradas dos cabos e os elementos de obturação que podem ser utilizados devem ser adequados à aplicação pretendida e corretamente instalados. A temperatura da superfície do invólucro é igual à temperatura ambiente mais 20 K, para uma camada de pó, com uma espessura de até 5 mm.

EU DECLARATION OF CONFORMITY

(5331_5334Dc_102)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
 hereby declares that the following products:
Type: 5331 / 5334
Name: 2-Wire programmable transmitter
From serial no.: 161984001
 is in conformity with the following directives and standards:

The EMC Directive 2014/30/EU and later amendments
EN 61326-1 : 2013
 Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The ATEX Directive 2014/34/EU and later amendments
EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-15 : 2010
and EN 60079-26 : 2007
 ATEX certificate: KEMA 10ATEX0002 X (5331A / 5334A)
 ATEX certificate: KEMA 06ATEX0062 X (5331D / 5334B)

No changes are required to enable compliance with the replacement standards:
EN 60079-0 : 2012 + A11 : 2013

ATEX notified body (type approval)
 DEKRA Certification B.V.
 Heander 1051, 6825 MJ Arnhem
 P.O. Box 5185, 6802 ED Arnhem
 The Netherlands

The RoHS2 Directive 2011/65/EU and later amendments
EN 50581 : 2012

Notified body 0344
 DEKRA Certification B.V.
 Heander 1051, 6825 MJ Arnhem
 P.O. Box 5185, 6802 ED Arnhem
 The Netherlands

Rønde, 16 March 2018
 Stig Lindemann, CTO
 Manufacturer's signature



Stig Lindemann
 Stig Lindemann, CTO
 Manufacturer's signature