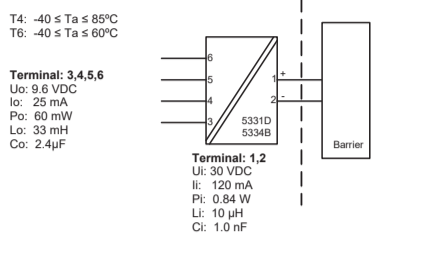


ATEX Installation drawing 5331QA01-V2R0

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 IIC Da
 I M1 Ex ia I Ma
 Standards EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-26 : 2007, EN 60079-15 : 2010

Hazardous area Zone 0, 1, 2, 20, 21, 22
 Non Hazardous Area

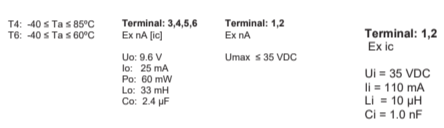


Installation notes.
 The sensor circuit is not infallibly galvanic isolated from the input circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.
 In a potentially explosive gas atmosphere, the transmitter shall be mounted in an enclosure in order to provide a degree of protection of at least IP20 according to EN60529.
 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:
 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 EN60529, 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 $\geq 60^{\circ}\text{C}$, 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

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 IIC Dc
 Standards EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-15 : 2010



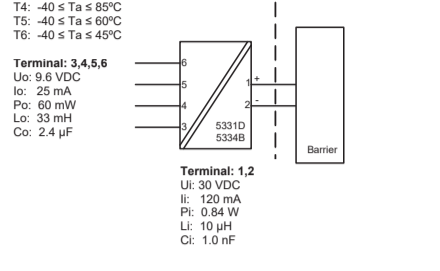
Special conditions for safe use.
 For type of protection Ex nA, the transmitter shall be mounted in a metal enclosure providing a degree of protection of at least IP54 according to EN60529.
 For use in the presence of combustible dusts the transmitter shall be mounted in an enclosure providing a degree 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 $\geq 60^{\circ}\text{C}$, heat resistant cables shall be used with a rating of at least 20 K above the ambient temperature.

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 IIC Da
 Ex ia I Ma
 Standards IEC 60079-0 : 2011, IEC 60079-11 : 2011, IEC 60079-26:2006

Hazardous area Zone 0, 1, 2, 20, 21, 22, M1
 Non Hazardous Area

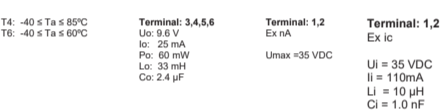


Installation notes
 The sensor circuit is not infallibly galvanic isolated from the input circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.
 In a potentially explosive gas atmosphere, the transmitter shall be mounted in a metal form B enclosure in order to provide a degree of protection of at least IP20 according to IEC60529. If however the environment requires a higher degree of protection, this shall be taken into account.
 If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga, Ma and Mb, and if the enclosure is made of aluminum, it must be installed such, that ignition sources due to impact and friction sparks are excluded.
 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 $\geq 60^{\circ}\text{C}$, 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 IIC Dc
 Standards IEC 60079-0 : 2011, IEC 60079-11 : 2011, IEC 60079-15 : 2010



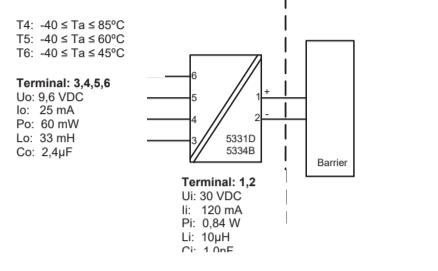
Installation note:
 For installation in a potentially explosive gas atmosphere, the following instructions apply:
 For nA installation the transmitter must be installed in a metal enclosure, e.g. a form B enclosure providing a degree of protection of at least IP54 according to IEC60529 or in an enclosure 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 $\geq 60^{\circ}\text{C}$, heat resistant cables shall be used with a rating of at least 20 K above the ambient temperature.
 For installation in a potentially explosive dust atmosphere, the following instructions apply:
 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.
 The transmitter must be mounted in an enclosure according to DIN 43729 that provides a degree of protection of at least IP6X according to IEC60529, and that is suitable for the application. Cable entry devices and blanking elements shall fulfill the same requirements.

Desenho de Instalação INMETRO 5331QB01-V1R0

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 pegado dos dois primeiros dígitos do número de série.

CertificadoDEKRA 13.0001 X
 Indicação Ex ia IIC T6...T4 Ga
 Ex ia IIC Da
 Padrões ABNT NBR IEC 60079-0 : 2008, ABNT NBR IEC 60079-11 : 2009, IEC 60079-15 : 2010, ABNT NBR IEC 60079-26 : 2008

Áreas Perigosas Zona 0, 1, 2, 20, 21, 22,
 Sem áreas perigosas

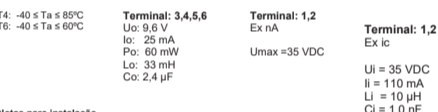


Notas de instalação
 O circuito do sensor não é isolado galvanicamente infalível do circuito de entrada. Contudo, a isolamento galvânica entre os circuitos é capaz de resistir a um teste de tensão de 500Vac durante 1 minuto.
 Em uma atmosfera de gás potencialmente explosiva, o transmissor deve ser montado em um enclosure a fim de garantir um grau de proteção de no mínimo IP20 de acordo com EN60529. Se contudo o ambiente requer um nível de proteção maior, isso deve ser levado em conta.
 Se o transmissor é instalado em uma atmosfera explosiva exigindo o uso de equipamento de categoria Ga e se o enclosure é feito de alumínio, ele deve ser instalado de modo que, mesmo em caso de avaria rara, fontes de ignição devido a impacto e fricção, faíscas são eliminadas; se o enclosure é feito de materiais não metálicos, cargas eletrostáticas devem ser evitadas.
 Para instalação em atmosfera de poeira potencialmente explosiva, as instruções a seguir:
 O transmissor deve ser montado em enclosure de metal forma B de acordo com DIN43729 que está fornecendo um grau de proteção de pelo menos IP6X de acordo com EN60529. Isso é adequado para aplicação e corretamente instalado.
 As entradas dos cabos e os elementos de obstrução que podem ser utilizados são adequados para a aplicação e corretamente instalados.
 Para temperatura ambiente $\geq 60^{\circ}\text{C}$, fios de resistência ao calor devem ser usados com uma faixa de pelo menos 20K acima da temperatura ambiente.
 A temperatura da superfície do enclosure é igual à temperatura ambiente mais de 20 K, por uma camada de pó, com uma espessura até 5 mm.

Desenho de Instalação INMETRO 5331QB02-V1R0

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 pegado dos dois primeiros dígitos do número de série.

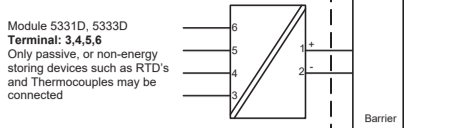
Certificado DEKRA 13.0001 X
 Indicação Ex nA [c] IIC T4...T6 Gc
 Ex ic IIC T4...T6 Gc
 Ex ic IIC Dc
 Padrões ABNT NBR IEC 60079-0 : 2008, ABNT NBR IEC 60079-11 : 2009, IEC 60079-15 : 2010, ABNT NBR IEC 60079-26 : 2008



Notas para instalação
 Para a instalação em uma atmosfera de gás potencialmente explosivo, se aplicam as instruções a seguir:
 Para a instalação nA o transmissor deve ser instalado em um gabinete de metal, por exemplo, gabinete em forma B que forneça um grau de proteção de pelo menos IP54 de acordo com IEC60529 ou em um caso com tipo de proteção Ex n ou Ex e.
 Para a instalação ic o transmissor deve ser instalado em um invólucro proporcionando um grau de proteção de IP20, pelo menos, de acordo com a norma IEC60529 que é adequado para a aplicação.
 Dispositivos de entrada de cabos e elementos de supressão devem cumprir os mesmos requisitos.
 Para uma temperatura ambiente $\geq 60^{\circ}\text{C}$, os cabos resistentes ao calor precisam ser utilizados com uma classificação de pelo menos 20 K acima da temperatura ambiente.
 Para a instalação em uma atmosfera de poeira potencialmente explosiva, se aplicam as instruções a seguir:
 A temperatura da superfície do invólucro é igual à temperatura ambiente mais 20 K, para uma camada de pó, com uma espessura superior a 5 mm.
 O transmissor deve ser montado em um invólucro de acordo com a norma DIN 43729, que proporciona um grau de proteção de, pelo menos, IP6X de acordo com a norma IEC60529, e que seja apropriado para a aplicação.
 Dispositivos de entrada de cabos e elementos de supressão devem cumprir as mesmas exigências.

CSA Installation drawing 533XQC03 - V3R0

Hazardous area T4: $-40 \leq T_a \leq 85^{\circ}\text{C}$
 T6: $-40 \leq T_a \leq 60^{\circ}\text{C}$
 Non Hazardous Area



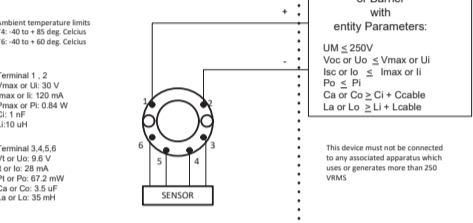
Module 5331D, 5333D
Terminal: 3,4,5,6
 Uo: 9.6 VDC
 Io: 25 mA
 Po: 60 mW
 Co: 2.4 μF
Terminal: 1,2
 Ui: 30 VDC
 Ii: 120 mA
 Pi: 0.84 W
 Li: 10 μH
 Ci: 1.0 nF

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 Rev AH V8R0

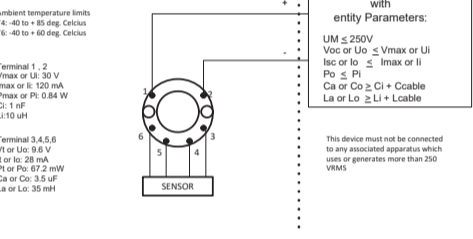
Model 5331C, 5331D, 5333C, 5333D and 5343B

Hazardous (Classified) Location Class I, Division 1, Groups, A, B, C, D T4, T6 Class I, Zone 0, AEx ia IIC T4...T6
 Non Hazardous Location Associated Apparatus or Barrier with entity Parameters:



Model 5335C, 5335D, 5336D, 5337D

Hazardous (Classified) Location Class I, Division 1, Groups, A, B, C, D T4, T6 Class I, Zone 0, AEx ia IIC T4...T6
 Non Hazardous Location Associated Apparatus or Barrier with entity Parameters:



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.

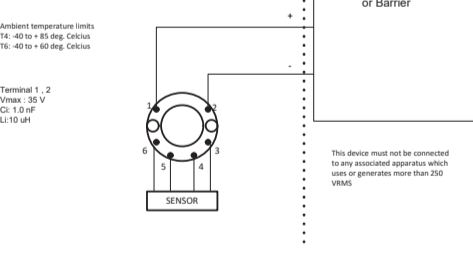
The entity concept criteria are as follows:
 The intrinsically safe devices, other than barriers, must not be a source of power.
 The maximum voltage U_i (VMAX) and current I_i (IMAX), and maximum power P_i (Pmax), which the device can receive and remain intrinsically safe, must be equal to or greater than the voltage (U_o or VOC or V_i) and current (I_o or ISC or I_i) and the power P_o which can be delivered by the barrier.

The sum of the maximum unprotected capacitance (C_i) for each intrinsically device and the interconnecting wiring must be less than the capacitance (C_a) which can be safely connected to the barrier.
 The sum of the maximum unprotected inductance (L_i) for each intrinsically device and the interconnecting wiring must be less than the inductance (L_a) which can be safely connected to the barrier.

The entity parameters U_o , VOC or V_i and I_o , ISC or I_i , and C_a and L_a for barriers are provided by the barrier manufacturer.

NI Field Circuit Parameters
 Model 5331C, 5331D, 5333C, 5333D, 5335C, 5335D, 5336D, 5337D and 5343B

Hazardous (Classified) Location Class I, Division 2, Groups, A, B, C, D T4...T6 Class I, Zone 2, IIC T4...T6
 Non Hazardous Location Associated Apparatus or Barrier



DECLARATION OF CONFORMITY

(5331_5334DoC_101)

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.: 150802000
 is in conformity with the following directives and standards:
 The EMC Directive and later amendments until 2016.04.19: 2004/108/EC from 2016.04.20: 2014/30/EU **EN 61326-1 : 2013**
 For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.
 The ATEX Directive and later amendments until 2016.04.19: 94/9/EC from 2016.04.20: 2014/34/EU **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)
 Notified body **DEKRA Certification B.V. (9344)**
Meander 1051, 6825 M Arnhem
P.O. Box 5185, 6802 ED Arnhem
The Netherlands
 The RoHS2 Directive 2011/65/EU
The product has been manufactured according to Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Stig Lindemann
 Stig Lindemann, CTO
 Manufacturer's signature

Rønde, 21 March 2016