Product manual *5332* 2-wire programmable RTD transmitter





















TEMPERATURE | I.S. INTERFACES | COMMUNICATION INTERFACES | MULTIFUNCTIONAL | ISOLATION | DISPLAY

No. 5332V102-UK From serial no: 211661138



6 Product Pillars to meet your every need

Individually outstanding, unrivalled in combination

With our innovative, patented technologies, we make signal conditioning smarter and simpler. Our portfolio is composed of six product areas, where we offer a wide range of analog and digital devices covering over a thousand applications in industrial and factory automation. All our products comply with or surpass the highest industry standards, ensuring reliability in even the harshest of environments and have a 5-year warranty for greater peace of mind.



Our range of temperature transmitters and sensors provides the highest level of signal integrity from the measurement point to your control system. You can convert industrial process temperature signals to analog, bus or digital communications using a highly reliable point-to-point solution with a fast response time, automatic self-calibration, sensor error detection, low drift, and top EMC performance in any environment.



commitment to innovation, we have made pioneering achievements in developing I.S. interfaces with SIL 2 Full
Assessment that are both efficient and cost-effective. Our comprehensive range of analog and digital intrinsically safe isolation barriers offers multifunctional inputs and outputs, making PR an easy-to-implement site standard.
Our backplanes further simplify large installations and provide seamless integration to standard DCS systems.

We deliver the safest signals by validating our products against the toughest safety standards. Through our



We provide inexpensive, easy-to-use, future-ready communication interfaces that can access your PR installed base of products. All the interfaces are detachable, have a built-in display for readout of process values and diagnostics, and can be configured via push-buttons. Product specific functionality includes communication via Modbus and Bluetooth and remote access using our PR Process Supervisor (PPS) application, available for iOS and Android.



Our unique range of single devices covering multiple applications is easily deployable as your site standard. Having one variant that applies to a broad range of applications can reduce your installation time and training, and greatly simplify spare parts management at your facilities. Our devices are designed for long-term signal accuracy, low power consumption, immunity to electrical noise and simple programming.



Our compact, fast, high-quality 6 mm isolators are based on microprocessor technology to provide exceptional performance and EMC-immunity for dedicated applications at a very low total cost of ownership. They can be stacked both vertically and horizontally with no air gap separation between units required.



Our display range is characterized by its flexibility and stability. The devices meet nearly every demand for display readout of process signals and have universal input and power supply capabilities. They provide a real-time measurement of your process value no matter the industry and are engineered to provide a user-friendly and reliable relay of information, even in demanding environments.

2-wire programmable RTD transmitter 5332

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2-wire programmable RTD transmitter 5332

- RTD or Ohm input
- Accuracy: Better than 0.05% of selected range
- Programmable sensor error value
- · For DIN form B sensor head mounting

Application

- Linearised temperature measurement with Pt100...
 Pt1000 or Ni100...Ni1000 sensor.
- Conversion of linear resistance variation to a standard analogue current signal, for instance from valves or Ohmic level sensors.

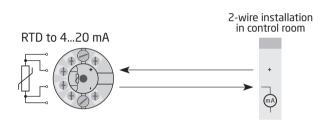
Technical characteristics

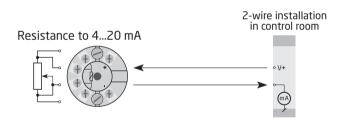
- Within a few seconds the user can program PR5332 to measure temperatures within all ranges defined by the norms.
- Dedicated programmable non-isolated 4-wire RTD transmitter.
- RTD and resistance inputs have cable compensation for 2-,
 3- and 4-wire connection.
- Continuous check of vital stored data for safety reasons.

Mounting / installation

 For DIN form B sensor head mounting. In non-hazardous areas the 5332 can be mounted on a DIN rail with the PR fitting type 8421.

Applications





Order

Туре	Version	
5332	Simple, no approvals	: N
	Zone 2 / Div. 2	: A
	Zone 0, 1, 2, 21, 22, M1 / DIV. 1, DIV. 2	: D

Accessories

5909 = Loop Link USB interface and PReset Software

Electrical specifications

Environmental conditions:

 Operating temperature
 -40°C to +85°C

 Calibration temperature
 20...28°C

Mechanical specifications:

Common specifications:

Supply voltage, DC

Internal power dissipation

 5332N & 5332A
 25 mW...0.8 W

 5332D
 25 mW...0.7 W

 Voltage drop
 7.2 VDC

 Warm-up time
 5 min

 Programming
 Loop Link

Effect of supply voltage variation..... < 0.005% of span / VDC

Accuracy, the greater of general and basic values:

General values			
Input type	Absolute accuracy	Temperature coefficient	
All	≤ ±0.05% of span	≤ ±0.01% of span / °C	

Basic values			
Input type	Basic accuracy	Temperature coefficient	
RTD	≤ ±0.2°C	≤ ±0.01°C/°C	
Lin. R	≤ ±0.1 Ω	≤ ±10 mΩ / °C	

EMC - immunity influence	< ±0.5% of span
Extended EMC immunity:	
NAMUR NE 21, A criterion, burst	< ±1% of span

Input specifications:

RTD and linear resistance input:

RTD	Min.	Max.	Min.	
type	value	value	span	Standard
Pt100Pt1000	-200°C	+850°C	25°C	IEC 60751
Ni100Ni1000	-60°C	+250°C	25°C	DIN 43760
Linear resistance	0 Ω	5000 Ω	30 Ω	

Output specifications:

Current output:

 Signal range.
 4...20 mA

 Min. signal range.
 16 mA

 Updating time
 440 ms

Sensor error detection:

 Programmable
 3.5...23 mA

 NAMUR NE43 Upscale
 23 mA

 NAMUR NE43 Downscale
 3.5 mA

Of span = Of the presently selected range

Observed authority requirements:

 EMC.
 2014/30/EU

 RoHS.
 2011/65/EU

 ATEX.
 2014/34/EU

 EAC.
 TR-CU 020/2011

 EAC Ex.
 TR-CU 012/2011

Ex / I.S. approvals:

5332A:

ATEX..... DEKRA 20ATEX0096 X

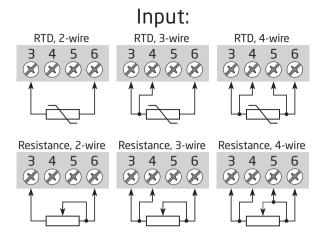
5332D:

5332A & 5332D:

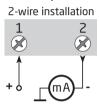
INMETRO DEKRA 16.0013 X

EAC Ex..... RU C-DK.HA65.B.00355/19

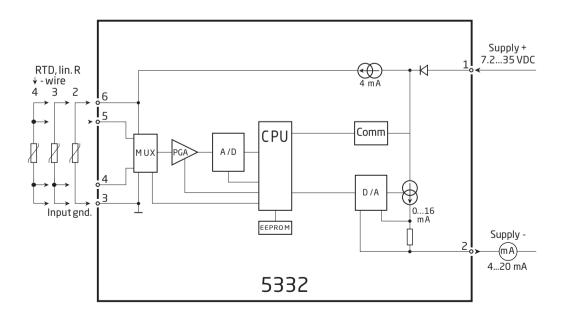
Connections



Output:



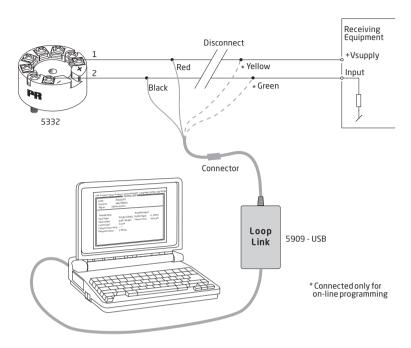
Block diagram



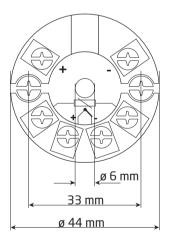
Programming

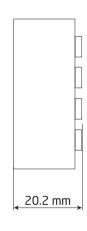
- Loop Link is a communications interface that is needed for programming 5332.
- For programming please refer to the drawing below and the help functions in PReset.
- Loop link is not approved for communication with modules installed in harzardous (Ex) areas.

Order: Loop Link

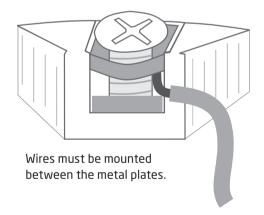


Mechanical specifications





Mounting of sensor wires



ATEX-installation drawing 5332QA02-V2R0

For safe installation of 5332A 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 DEKRA 20ATEX0096 X

Marking

II 3 G Ex nA [ic] IIC T6 ... T4 Gc II 3 G Ex ec [ic] IIC T6 ... T4 Gc II 3 G Ex ic IIC T6 ... T4 Gc

II 3 D Ex ic IIIC Dc

Standards EN 60079-0: 2018, EN 60079-11: 2012,

EN 60079-15: 2010, EN 60079-7:2015 +A1: 2018

Terminal 3,4,5,6	Terminal 1,2	Terminal 1,2	Terminal 1,2
Ex ic IIC,Ex ic IIIC	Ex ic IIC,Ex ic IIIC	Ex ic IIC,Ex ic IIIC	Ex nA, Ex ec
Uo: 9.6 V lo: 25 mA Po: 60 mW Lo: 33 mH Co: 2.4 µF	Ui = 35 V Ii = 110 mA Ci = 1 nF Li = 10 μH	Ui = 24 V Ii = 260 mA Ci = 1 nF Li = 10 μH	Umax ≤ 35 VDC or Umax ≤ 24 VDC

Ex ic IIC, Ex ic IIIC Temperature	Ambient temperature range		
Class	Ui=35 V	Ui=24 V	
T6	-40°C to +54°C	-40°C to +63°C	
Т5	-40°C to +69°C	-40°C to +78°C	
T4	-40°C to +85°C	-40°C to +85°C	

Ex ec, Ex nA Temperature	Ambient temp	perature range
Class	Vmax=35 V	Vmax=24 V
T6	-40°C to +43°C	-40°C to +55°C
Т5	-40°C to +85°C	-40°C to +85°C
T4	-40°C to +85°C	-40°C to +85°C

Installation notes

If the enclosure is made of non-metallic plastic materials, electrostatic charges on the transmitter enclosure shall be avoided.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex ic, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to EN 60529, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Dc, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to EN 60079-0, and that is suitable for the application and correctly installed. The surface temperature of the outer enclosure is +20 K above the ambient temperature, determined without a dust layer. Ambient temperature range: -40°C to +85°C.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP54 according to EN 60079-0, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.

ATEX-installation drawing 5332QA01-V2R0



For safe installation of 5332D 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.

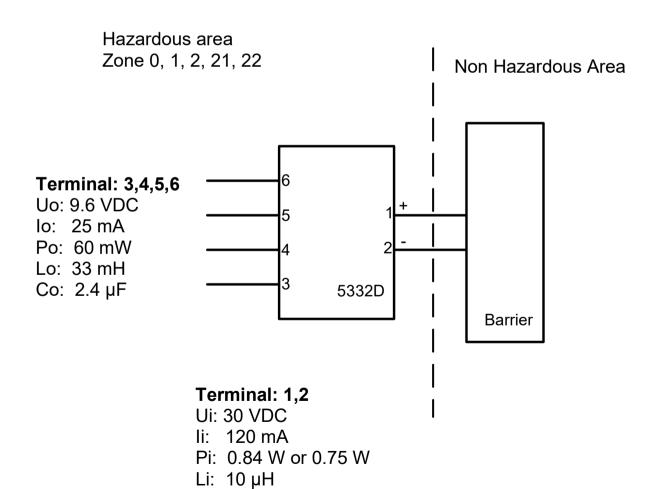
ATEX Certificate DEKRA 20ATEX0095 X

Marking

II 1 G Ex ia IIC T6...T4 Ga
II 2 D Ex ia IIIC Db
I M1 Ex ia I Ma

Standards EN 60079-0: 2018, EN 60079-11: 2012

Ci: 1.0 nF



Temperature Class	Ambient temperature range		
Class	Pi: 0.84 W	Pi: 0.75 W	
T6	-40°C to +47°C	-40°C to +50°C	
T5	-40°C to +62°C	-40°C to +65°C	
T4	-40°C to +85°C	-40°C to +85°C	

Installation notes

If the enclosure is made of non-metallic plastic materials, electrostatic charges on the transmitter enclosure shall be avoided.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to EN 60529, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga or Ma, 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 transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Db, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to EN 60079-0, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ma, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP54 according to EN 60529, and 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.

IECEx-installation drawing 5332QI02-V2R0

For safe installation of 5332A 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 20.0059X

Marking Ex nA [ic] IIC T6 ... T4 Gc

Ex ec [ic] IIC T6 ... T4 Gc Ex ic IIC T6 ... T4 Gc

Ex ic IIIC Dc

Standards IEC 60079-0: 2017, IEC 60079-11: 2011,

IEC 60079-15: 2010, IEC 60079-7:2017

Terminal 3,4,5,6	Terminal 1,2	Terminal 1,2	Terminal 1,2
Ex ic IIC,Ex ic IIIC	Ex ic IIC,Ex ic IIIC	Ex ic IIC,Ex ic IIIC	Ex nA, Ex ec
Uo: 9.6 V Io: 25 mA	Ui = 35 V Ii = 110 mA	Ui = 24 V Ii = 260 mA	Umax ≤ 35 VDC
Po: 60 mW Lo: 33 mH	Ci = 1 nF Li = 10 µH	Ci = 1 nF Li = 10 µH	Umax ≤ 24 VDC
Co: 2.4 µF			

Ex ic IIC, Ex ic IIIC Temperature	Ambient temp	perature range
Class	Ui=35 V	Ui=24 V
T6	-40°C to +54°C	-40°C to +63°C
Т5	-40°C to +69°C	-40°C to +78°C
T4	-40°C to +85°C	-40°C to +85°C

Ex ec, Ex nA Temperature Class	Ambient temperature range		
	Vmax=35 V	Vmax=24 V	
T6	-40°C to +43°C	-40°C to +55°C	
Т5	-40°C to +85°C -40°C to +85°C		
T4	-40°C to +85°C	-40°C to +85°C	

Installation notes

If the enclosure is made of non-metallic plastic materials, electrostatic charges on the transmitter enclosure shall be avoided.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex ic, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to IEC 60529, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Dc, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to IEC 60079-0, and that is suitable for the application and correctly installed. The surface temperature of the outer enclosure is +20 K above the ambient temperature, determined without a dust layer. Ambient temperature range: -40°C to +85°C.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP54 according to IEC 60079-0, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

IECEx-installation drawing 5332QI01-V2R0



For safe installation of 5332D 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.

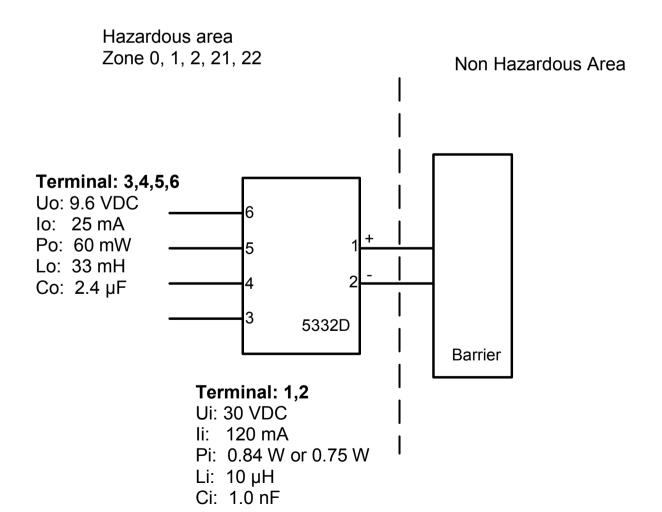
Certificate IECEx DEK 20.0059X

Marking

Ex ia IIC T6...T4 Ga

Ex ia IIIC Db Ex ia I Ma

Standards IEC 60079-0: 2017, IEC 60079-11: 2011



Temperature Class	Ambient temperature range		
	Pi: 0.84 W	Pi: 0.75 W	
Т6	-40°C to +47°C	-40°C to +50°C	
T5	-40°C to +62°C	-40°C to +65°C	
T4	-40°C to +85°C	-40°C to +85°C	

Installation notes

If the enclosure is made of non-metallic plastic materials, electrostatic charges on the transmitter enclosure shall be avoided.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to IEC 60529, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga or Ma, 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 transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Db, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to IEC 60079-0, and that is suitable for the application and correctly installed. The surface temperature of the outer enclosure is +20 K above the ambient temperature, determined without a dust layer. Ambient temperature range: -40°C to +85°C.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ma, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP54 according to IEC 60529, and that is suitable for the application and correctly installed. Ambient temperature range: -40°C to +85°C.

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.

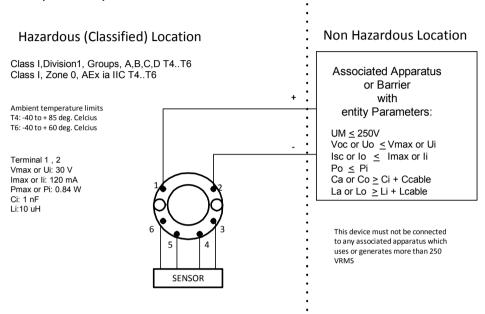


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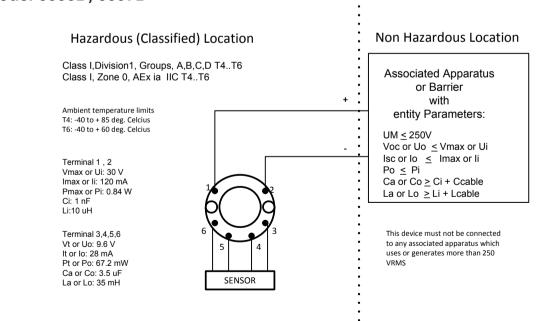
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FM Installation Drawing

Model 5331D, 5332D, 5333D and 5343B



Model 5335D, 5337D



Revision date: Version Revision Page: 2020-03-30 V3R0 1/2



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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 $Ui(V_{MAX})$ and current $Ii(I_{MAX})$, 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 V_{OC} or V_t) and current (Io or I_{SC} or I_t) and the power Po which can be delivered by the barrier.

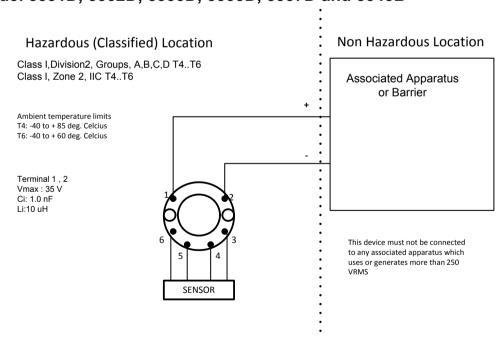
The sum of the maximum unprotected capacitance (C_i) for each intrinsically device and the interconnecting wiring must be less than the capacitance (C_a) which can be safely connected to the barrier.

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 Uo, Voc or V_t and Io, Isc or I_t , and C_a and L_a for barriers are provided by the barrier manufacturer.

NI Field Circuit Parameters

Model 5331D, 5332D, 5333D, 5335D, 5337D and 5343B



Revision date: Version Revision Page: 2020-03-30 V3R0 2/2



CSA Installation drawing 5331QC02

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For safe installation of the 5331A and 5332A 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.

Marking

Co: 2.4µF

Class I, Division 2, Group A,B,C,D T4..T6 Class I Zone 2 Ex/AEx nA[ic] IIC T4..T6 Class I Zone 2 Ex/AEx nA IIC T4..T6 NIFW Class I Division 2, Group A,B,C,D

Hazardous Area CL I, Div 2, GP ABCD CL I, Zone 2, IIC

T4: -40°C to 85 °C T6: -40°C to 60 °C

Terminal: 3,4,5,6 Uo: 9.6 VDC lo: 25 mA

Po: 60 mW Lo: 33 mH

Terminal:

1-2

Supply

Functional Ratings: U nominal ≤ 35 VDC; I nominal $\leq 3.5 - 23 \text{ mA}$

NI Installation instructions

The transmitter must be installed in anenclosure providing a degree of protection of at least IP54 according to IEC60529 that is suitable for the application and is correctly installed. Cable entry devices and blanking elements shall fulfill the same requirements.

If the enclosure is made of non-metallic materials or of painted metal, electrostatic charging shall be avoided.

Use supply wires with a rating of at least 5 K above the ambient temperature.

Supply from a Class 2 Power Supply with Transient protection or equivalent.

WARNING: Substitution of components may impair suitability for Class I, Division 2 AVERTISSEMENT: la substitution de composants peut nuire à l'aptitude à la Classe I, Division 2.

WARNING: Do not disconnect equipment unless power has been switched off or the area is known to be safe.

AVERTISSEMENT: Ne débranchez pas l'équipement sauf si l'alimentation a été coupée ou si la zone est connue pour être sûre.

Non Incendive field wiring installation

The non incendive field Wiring Circuit concept allows interconnection of Nonincendive Field wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Assosicated Intrinsically Safe Apparatus or Associated Apparatus not specially examined in combination as a system using any of the wiring methods permitted for unclassified locations,

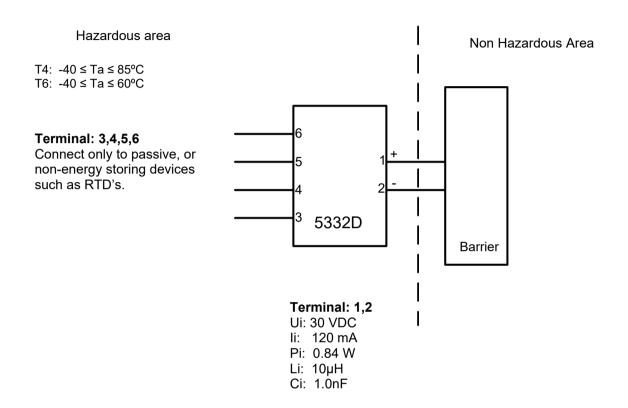
Voc < Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.

Revision date: Version Revision Page: 2019-05-01 V1R0 1/1

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CSA Installation drawing 5332QC01



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).

Revision date:	Version Revision	Doc. No.	Page:
2018-08-22	V1R0	5332QC01	1/1



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Desenho de Instalação INMETRO



Para instalação segura do 5332A o seguinte deve ser observado. O modelo deve apenas ser instalado por pessoas qualificadas que são familiarizadas com as leis nacionais e internacionais. diretrizes e padrões que se aplicam a esta área.

O ano de fabricação pode ser pego dos dois primeiros dígitos do número de série.

Certificado **DEKRA 16.0013 X**

Marcas Ex nA [ic] IIC T4..T6 Gc

Ex ic IIC T4..T6 Gc Ex ic IIIC Dc

ABNT NBR IEC 60079-0: 2013: ABNT NBR IEC 60079-11: 2013

ABNT NBR IEC60079-15: 2012

T4: -40 ≤ Ta ≤ 85°C Terminais: 1,2 Terminais: 1,2 Terminais:

T6: -40 ≤ Ta ≤ 60°C 3,4,5,6 Ex nA Ex ic

Uo: 9,6 V lo: 25 mA Ui = 35 VDC U ≤35 VDC Po: 60 mW Ii = 110 mALo: 33 mH $Li = 10 \mu H$

Co: 2,4 µF Ci = 1,0 nF

Notas para instalação

Para a instalação em uma atmosfera de gás potencialmente explosivo, aplicam-se as instruções a

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 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 IP20de 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 seauir:

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 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.

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Desenho de Instalação INMETRO



Para instalação segura do 5332D o seguinte deve ser observado. O modelo deve apenas ser instalado por pessoas qualificadas que são familiarizadas com as leis nacionais e internacionais, diretrizes e padrões que se aplicam a esta área.

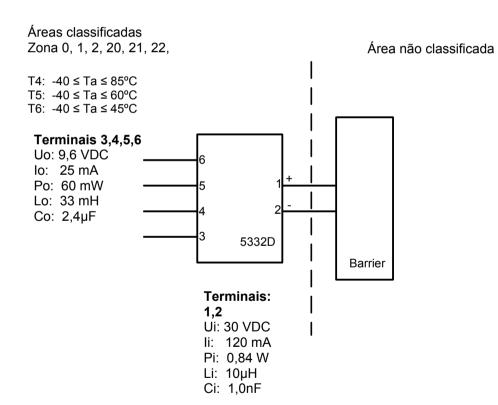
O ano de fabricação pode ser pego dos dois primeiros dígitos do número de série.

CertificadoDEKRA 16.0013 X

Marcas Ex ia IIC T6...T4 Ga

Ex ia IIIC Da Ex ia I Ma

Normas ABNT NBR IEC 60079-0: 2013; ABNT NBR IEC 60079-11: 2013



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Notas de instalação

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 contudo, o ambiente necessitar de um nível de proteção maior, isso deve ser levado em consideração.

Se o transmissor estiver instalado em uma atmosfera explosiva que exija o uso dos níveis de proteção de equipamento Ga, Ma e Mb, e se o gabinete for de alumínio, ele deverá ser instalado de forma que as fontes de ignição devido a faíscas de impacto e fricção sejam excluídas.

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 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.

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Document history

The following list provides notes concerning revisions of this document.

Rev. ID	Date	Notes
100	1845	Initial release of the product.
101	2007	EAC, EAC Ex and INMETRO approvals added.
		CSA installation drawing for 5332A added.
102	2145	ATEX and IECEx approvals updated - Ex na changed
		to Ex ec.

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