

**DK**

**ADVARSEL**



Følgende operationer bør kun udføres på modulet i spændingsløs tilstand og under ESD-sikre forhold:  
 Installation, ledningsmontage og -demontage.  
 Fejlfinding på modulet.  
 Reparation af modulet må kun foretages af PR electronics A/S.

**ADVARSEL**

PR Loop Link programmeringsenheden må ikke benyttes til kommunikation med moduler installeret i Ex-område.  
 Enhederne skal installeres i henhold til den tilhørende installationsvejledning ved montering i eksplosionsfarlig område.  
 System 6300 skal monteres på DIN-skinne efter DIN EN 60715.

**SIKKERHEDSREGLER**

**Motagelse og udpakning**  
 Udpak modulet uden at beskadige det. Kontrollér ved modtagelsen, at modultypen svarer til den bestilte. Indpakningen bør følge modulet, indtil dette er monteret på blivende plads.

**Miljøforhold**

Undgå direkte sollys, kraftigt støv eller varme, mekaniske rystelser og stød, og udsæt ikke modulet for regn eller kraftig fugt. Om nødvendigt skal opvarmning og/over de opgivne grænser for omgivelsestemperatur, forhindres ved hjælp af ventilation.

**Installation**

Modulet må kun tilsluttes af kvalificerede teknikere, som er bekendte med de tekniske udtryk, advarsler og instruktioner i installationsvejledningen, og som vil følge disse.  
 Hvis der er tvivl om modules rette håndtering, skal der rettes henvendelse til den lokale forhandler eller alternativt direkte til PR electronics A/S.  
 Installation og tilslutning af modulet skal følge landets gældende regler for installation af elektrisk materiale bl.a. med hensyn til ledningstværsnit, forskring og placering.  
 Beskrivelse af indgang / udgang og forsyningsforbindelser findes i produktmanualen og på sideskiltet.  
**Kalibrering og justering**  
 Under kalibrering og justering skal måling og tilslutning af eksterne spændinger udføres i henhold til denne installationsvejledning, og teknikeren skal benytte sikkerhedsmæssigt korrekte værktøjer og instrumenter.

**Rengøring**

Modulet må, i spændingsløs tilstand, rengøres med en klud let fugtet med destilleret vand.

**PC-programmering af SYSTEM 6300**

Modulet konfigureres til den aktuelle opgave ved hjælp af en PC og PR electronics A/S kommunikationsinterface Loop Link. Det er muligt at konfigurere modulet både med og uden tilsluttet forsynings-spænding, idet kommunikationsinterfacet leverer nødvendig forsyning til opsætningen. Kommunikationsinterfacet er galvanisk isoleret, så PC'en ser port er optimalt beskyttet. Kommunikationen er 2-vejs, så modules opsætning kan hentes ind i PC'en, og opsætningen i PC'en kan sendes til modulet. For de brugere, der ikke selv vil foretage opsætning, kan modulet leveres konfigureret efter oplyst specifikation: indgangstype, måleområde, følerfejlsdetektering og udgangssignal.

**Elektriske specifikationer**

Specifikationsområde.....	-40°C til +85°C
Forsyningsspænding.....	7.2...35 VDC
6331A & 6334A.....	7.2...35 VDC
Max. forbrug, 6331A & 6334A, 1 / 2 kanaler.....	0.8 W / 1.6 W
Forsyningsspænding, 6331B & 6334B.....	7.2...30 VDC
Max. forbrug, 6331B & 6334B, 1 / 2 kanaler.....	0.7 W / 1.4 W
Isolationsspænding, test / arbejds.....	1.5 kVAC / 50 VAC
Kalibreringstemperatur.....	20...28°C
Relativ fugtighed.....	< 95% RH (ikke kond.)
Mål.....	109 x 23,5 x 104 mm
Kapslingsklasse.....	IP20
<b>Indgangstyper:</b>	
Pt100.....	-200°C...+850°C
Ni100.....	-60°C...+250°C
TC-indgang.....	B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Lin. R.....	0 Ω...5000 Ω
Spænding.....	-12...800 mV
<b>Strømodgang:</b>	
Signalområde.....	4...20 mA
Min. signalområde.....	16 mA
Belastningsmodstand, Q <sub>min</sub> .....	≤ (V <sub>supply</sub> /7.2 V)/0.023
<b>Godkendelser:</b>	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
<b>Overholdte myndighedskrav:</b>	
EMC.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

- DK** Ex-godkendelser
- UK** I.S approvals
- FR** Approbations S.I.
- DE** Ex-Zulassungen

	ATEX	Area	Installation drawing	IECEX	Area	Installation drawing	FM	Area	Installation drawing	CSA	Area	Installation drawing
<b>6331A</b>	KEMA 06ATEX0115 X	2, 22	6331QA02	DEK 14.0047X	2, 22	6331QI02	FM17US0013X	2 / Div 2	6331QF01	1125003	2 / Div 2	6331QC02
<b>6334A</b>	KEMA 06ATEX0115 X	2, 22	6331QA02	DEK 14.0047X	2, 22	6331QI02						
<b>6331B</b>	KEMA 06ATEX0115 X	0, 1, 2, 20, 21, 22, M1	6331QA01	DEK 14.0047X	0, 1, 2, 20, 21, 22, M1	6331QI01	FM17US0013X	0, 1, 2 / Div 1	6331QF01	1125003	0, 1, 2 / Div 1	6331QC01
<b>6334B</b>	KEMA 06ATEX0115 X	0, 1, 2, 20, 21, 22, M1	6331QA01	DEK 14.0047X	0, 1, 2, 20, 21, 22, M1	6331QI01						

- DK** Kina RoHS
- UK** China RoHS
- FR** RoHS chinois
- DE** China-RoHS

Part Name	Hazardous Substances				
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB) / Polybrominated diphenyl ethers (PBDE)
<b>Printed circuit board</b>	X	0	0	0	0

This table is prepared in accordance with the provisions of SJ/T 11364  
 0: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.  
 X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

The product's Environmentally Friendly Use Period (EFUP) is 50 years

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**FR** La documentation et toute autre information peuvent être trouvées sur l'Internet sur notre site: [www.prelectronics.fr](http://www.prelectronics.fr)

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**UK**

**WARNING**



The following operations should only be carried out on a disconnected device and under ESD safe conditions:  
 General mounting, connection and disconnection of wires.  
 Troubleshooting the device.  
 Repair of the device must be done by PR electronics A/S only.

**WARNING**

Do not use the Loop Link programming interface to program the units in Ex area. For installation in classified area the modules must be installed according to the appropriate installation drawings. SYSTEM 6300 must be mounted on a DIN rail according to DIN EN 60715.

**SAFETY INSTRUCTIONS**

**Receipt and unpacking**  
 Unpack the device without damaging it. The packing should always follow the device until this has been permanently mounted. Check at the receipt of the device whether the type corresponds to the one ordered.

**Environment**

Avoid direct sunlight, dust, high temperatures, mechanical vibrations and shock, as well as rain and heavy moisture. If necessary, heating in excess of the stated limits for ambient temperatures should be avoided by way of ventilation.

**Mounting**

Only qualified technicians who are familiar with the technical terms, warnings, and instructions in this installation guide and who are able to follow these should connect the device.  
 Should there be any doubt as to the correct handling of the device, please contact your local distributor or, alternatively, PR electronics A/S.  
 Mounting and connection of the device should comply with national legislation for mounting of electric materials, i.e. wire cross section, protective fuse, and location. Descriptions of input / output and supply connections are shown in the product manual and on the side label.

**Calibration and adjustment**

During calibration and adjustment, the measuring and connection of external voltages must be carried out according to the specifications of this installation guide. The technician must use tools and instruments that are safe to use.

**Cleaning**

When disconnected, the device may be cleaned with a cloth moistened with distilled water.

**PC programming of SYSTEM 6300**

The device is configured to the present task by way of a PC and PR electronics A/S communications interface Loop Link. The device can be configured with or without a connected supply voltage as the communications interface supplies the necessary voltage to the set-up. The communications interface is galvanically isolated to protect the PC port. Communication is 2-way to allow the retrieval of the device set-up into the PC and to allow the transmission of the PC set-up to the device. For users who do not wish to do the set-up themselves, the device can be delivered configured according to customer specifications: input type, measurement range, sensor error detection, and output signal.

**Electrical specifications**

Specifications range.....	-40°C to +85°C
Supply voltage.....	7.2...35 VDC
6331A & 6334A.....	7.2...35 VDC
Max. required power, 6331A & 6334A, 1 / 2 channels.....	0.8 W / 1.6 W
Supply voltage, 6331B & 6334B.....	7.2...30 VDC
Max. required power, 6331B & 6334B, 1 / 2 channels.....	0.7 W / 1.4 W
Isolation voltage, test/oper.....	1.5 kVAC / 50 VAC
Calibration temperature.....	20...28°C
Relative humidity.....	< 95% RH (non-cond.)
Dimensions.....	109 x 23,5 x 104 mm
Protection degree.....	IP20
<b>Input types:</b>	
Pt100.....	-200°C...+850°C
Ni100.....	-60°C...+250°C
TC input.....	B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Lin. R.....	0 Ω...5000 Ω
Voltage.....	-12...800 mV
<b>Current output:</b>	
Signal range.....	4...20 mA
Min. signal range.....	16 mA
Load resistance, Q <sub>min</sub> .....	≤ (V <sub>supply</sub> /7.2 V)/0.023
<b>Approvals:</b>	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
<b>Observed authority requirements:</b>	
EMC.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

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<b>6334A</b>	KEMA 06ATEX0115 X	2, 22	6331QA02	DEK 14.0047X	2, 22	6331QI02						
<b>6331B</b>	KEMA 06ATEX0115 X	0, 1, 2, 20, 21, 22, M1	6331QA01	DEK 14.0047X	0, 1, 2, 20, 21, 22, M1	6331QI01	FM17US0013X	0, 1, 2 / Div 1	6331QF01	1125003	0, 1, 2 / Div 1	6331QC01
<b>6334B</b>	KEMA 06ATEX0115 X	0, 1, 2, 20, 21, 22, M1	6331QA01	DEK 14.0047X	0, 1, 2, 20, 21, 22, M1	6331QI01						

- DK** Kina RoHS
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- FR** RoHS chinois
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Part Name	Hazardous Substances				
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB) / Polybrominated diphenyl ethers (PBDE)
<b>Printed circuit board</b>	X	0	0	0	0

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**FR**

**AVERTISSEMENT**



Les opérations suivantes doivent être effectuées avec le module débranché et dans un environnement exempt de décharges électrostatiques (ESD):  
 Montage général, raccordement et débranchement de fils et recherche de pannes sur le module.  
 Seule PR electronics SARL est autorisée à réparer le module.

**AVERTISSEMENT**

Ne pas utiliser le kit de programmation "Loop Link" en zone classée dangereuse Ex. Pour des installations en zone classée, les modules doivent être monté conformément aux plans appropriés.  
 Il convient de monter l'appareil SYSTEME 6300 sur un rail DIN en se conformant à la norme DIN EN 60715.

**CONSIGNES DE SECURITE**

**Réception et déballage**  
 Déballage le module sans l'endommager. Il est recommandé de conserver l'emballage du module tant que ce dernier n'est pas définitivement monté.  
 A la réception du module, vérifiez que le type de module reçu correspond à celui que vous avez commandé.

**Environnement**

N'exposez pas votre module aux rayons directs du soleil et choisissez un endroit à humidité modérée et à l'abri de la poussière, des températures élevées, des chocs et des vibrations mécaniques et de la pluie. Le cas échéant, des systèmes de ventilation permettent d'éviter qu'une pièce soit chauffée au-delà des limites prescrites pour les températures ambiantes.

**Montage**

Il est conseillé de réserver le raccordement du module aux techniciens qualifiés qui connaissent les termes techniques, les avertissements et les instructions de ce guide et qui sont capables d'appliquer ces dernières.  
 Si vous avez un doute quelconque quant à la manipulation du module, veuillez contacter votre distributeur local. Vous pouvez également vous adresser à: PR electronics SARL.  
 Le montage et le raccordement du module doivent être conformes à la législation nationale en vigueur pour le montage de matériaux électriques, par exemple, diamètres des fils, fusibles de protection et implantation des modules. Les connexions des alimentations et des entrées / sorties sont décrites dans le manuel du produit et sur l'étiquette de la face latérale du module.

**Etalonnage et réglage**

Lors des opérations d'étalonnage et de réglage, il convient d'effectuer les mesures et les connexions des tensions externes en respectant les spécifications mentionnées dans ce guide. Les techniciens doivent utiliser des outils et des instruments pouvant être manipulés en toute sécurité.

**Maintenance et entretien**

Une fois le module hors tension, prenez un chiffon imbibé d'eau distillée pour le nettoyer.

**Programmation par PC du SYSTEME 6300**

Le module peut être programmé en fonction d'une application donnée à partir d'un PC et le kit de programmation Loop Link de PR electronics A/S. Le module peut être programmé sans être alimenté car l'interface de communication fournit l'alimentation nécessaire pour la configuration. L'interface de communication est dotée d'une isolation galvanique pour protéger le port du PC. La communication est bidirectionnelle. Cela permet non seulement la programmation du module mais également la récupération d'une configuration existante ainsi que la lecture du numéro de série et du repère. Le module peut être livré déjà programmé, si l'utilisateur le souhaite.

**Spécifications**

Plage de température.....	-40°C à +85°C
Tension d'alimentation, 6331A & 6334A.....	7.2...35 Vcc
Puissance maximale requise, 6331A & 6334A, 1 / 2 voies.....	0.8 W / 1.6 W
Tension d'alimentation, 6331B & 6334B.....	7.2...30 Vcc
Puissance maximale requise, 6331B & 6334B, 1 / 2 voies.....	0.7 W / 1.4 W
Tension d'isolation test/opér.....	1.5 kVca / 50 Vca
Température d'étalonnage.....	20...28°C
Humidité relative.....	< 95% HR (sans cond.)
Dimensions.....	109 x 23,5 x 104 mm
Degré de protection.....	IP20
<b>Types d'entrée:</b>	
Pt100.....	-200°C...+850°C
Ni100.....	-60°C...+250°C
TC input.....	B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Lin. R.....	0 Ω...5000 Ω
Voltage.....	-12...800 mV
<b>Sortie courant:</b>	
Gamme de signal.....	4...20 mA
Plage de signal min.....	16 mA
Résistance de charge, Q <sub>min</sub> .....	≤ (V <sub>supply</sub> /7.2 V)/0.023
<b>Approbations:</b>	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
<b>Compatibilité avec les normes:</b>	
CEM.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

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<b>6334A</b>	KEMA 06ATEX0115 X	2, 22	6331QA02	DEK 14.0047X	2, 22	6331QI02						
<b>6331B</b>	KEMA 06ATEX0115 X	0, 1, 2, 20, 21, 22, M1	6331QA01	DEK 14.0047X	0, 1, 2, 20, 21, 22, M1	6331QI01	FM17US0013X	0, 1, 2 / Div 1	6331QF01	1125003	0, 1, 2 / Div 1	6331QC01
<b>6334B</b>	KEMA 06ATEX0115 X	0, 1, 2, 20, 21, 22, M1	6331QA01	DEK 14.0047X	0, 1, 2, 20, 21, 22, M1	6331QI01						

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Part Name	Hazardous Substances				
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<b>Printed circuit board</b>	X	0	0	0	0

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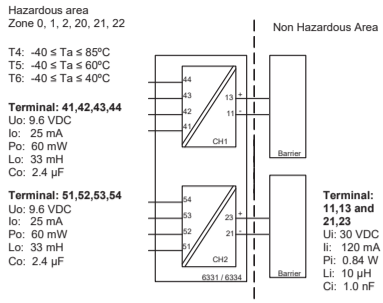
The product's Environmentally Friendly Use Period (EFUP) is 50 years

### ATEX Installation drawing 6331QA01-V2R0

For safe installation of 6331Bxx or 6334Bxx 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.

ATEX Certificate KEMA 06ATEX 0115X  
Marking II 1 G Ex ia IIC T6, T4 Ga  
II 1 D Ex ia IIIC Da  
I M 1 Ex ia I Ma

Standards EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-26 : 2007



#### General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

The sensor circuit is not intrinsically galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

For installation in a potentially explosive gas atmosphere the following instructions apply: To avoid risk of ignition due to electrostatic discharge (ESD) the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP20 according to EN/IEC 60529.

Ambient temperature range: T4: -40 ≤ Ta ≤ 85°C T5: -40 ≤ Ta ≤ 60°C T6: -40 ≤ Ta ≤ 40°C

For installation in a potentially explosive dust atmosphere, the following instructions apply: The transmitter shall be mounted in a metal enclosure or equivalent that is providing a degree of protection of at least IP6X according to EN/IEC 60529 that is suitable for the application and correctly installed.

Ambient temperature range: T4: -40 ≤ Ta ≤ 85°C

For installation in a potentially explosive atmosphere in mines, the following instructions apply: The transmitter shall be mounted in an enclosure providing a degree of protection of at least IP6X according to EN/IEC 60529. Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

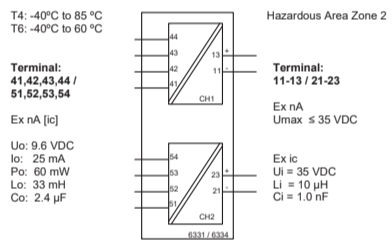
Ambient temperature range: T4: -40 ≤ Ta ≤ 85°C

### ATEX Installation drawing 6331QA02-V2R0

For safe installation of 6331A or the 6334A 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.

ATEX Certificate KEMA 06 ATEX0115X  
Marking II 3 G Ex nA [ic] IIC T6, T4 Gc  
II 3 G Ex ic IIC T6, T4 Gc  
II 3 D Ex ic IIIC Dc

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



#### General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

The sensor circuit is not intrinsically galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

For installation in a potentially explosive gas atmosphere, the following instructions apply: If the transmitter is applied in type of protection "Ex nA", it shall be installed in an enclosure that is Ex nA certified according to IEC-EN 60079-15 or "Ex e" certified and suitable for the application and correctly installed.

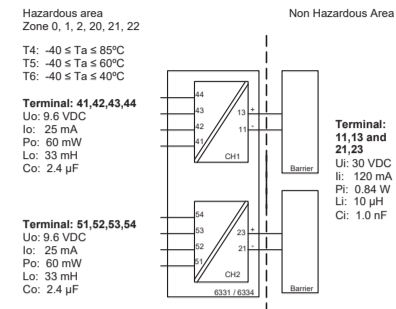
For installation in a potentially explosive dust atmosphere, the following instructions apply: If the transmitter is supplied with an intrinsically safe signal "ic" and interfaces an intrinsically safe signal "ic" (e.g. a passive device), the transmitter shall be mounted in a metal enclosure that provides a degree of protection of at least IP6X according to EN/IEC 60529, and that is suitable for the application.

### IECEx Installation drawing 6331QI01-V1R0

For safe installation of 6331Bxx or 6334Bxx 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.

IECEx Certificate IECEx DEK 14.0047X  
Marking Ex ia IIC T6, T4 Ga  
Ex ia IIIC Da  
Ex ia I Ma

Standards: IEC60079-11:2011, IEC60079-0: 2011, IEC60079-26:2006



#### General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

The sensor circuit is not intrinsically galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

For installation in a potentially explosive gas atmosphere the following instructions apply: To avoid risk of ignition due to electrostatic discharge (ESD) the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP20 according to EN/IEC 60529.

Ambient temperature range: T4: -40 ≤ Ta ≤ 85°C T5: -40 ≤ Ta ≤ 60°C T6: -40 ≤ Ta ≤ 40°C

For installation in a potentially explosive dust atmosphere, the following instructions apply: The transmitter shall be mounted in a metal enclosure or equivalent that is providing a degree of protection of at least IP6X according to EN/IEC 60529 that is suitable for the application and correctly installed.

Ambient temperature range: T4: -40 ≤ Ta ≤ 85°C

For installation in a potentially explosive atmosphere in mines, the following instructions apply: The transmitter shall be mounted in an enclosure providing a degree of protection of at least IP6X according to EN/IEC 60529. Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

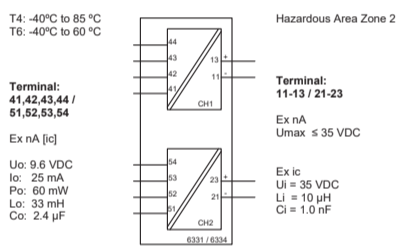
Ambient temperature range: T4: -40 ≤ Ta ≤ 85°C

### IECEx Installation drawing 6331QI02-V2R0

For safe installation of 6331A or the 6334A 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.

IECEx Certificate IECEx DEK 14.0047X  
Marking Ex nA [ic] IIC T6, T4 Gc  
Ex ic IIC T6, T4 Gc  
Ex ic IIIC Dc

Standards IEC 60079-0 : 2011, IEC 60079-11 : 2011, IEC 60079-15 : 2010



#### General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

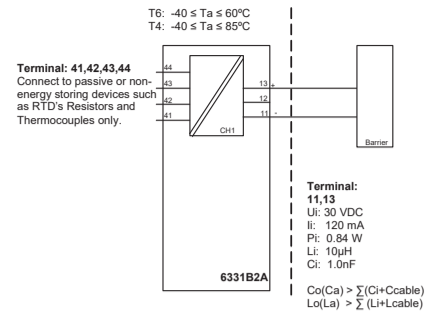
The sensor circuit is not intrinsically galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

For installation in a potentially explosive gas atmosphere, the following instructions apply: If the transmitter is applied in type of protection "Ex nA", it shall be installed in an enclosure that is Ex nA certified according to IEC-EN 60079-15, or "Ex e" certified and suitable for the application and correctly installed.

For installation in a potentially explosive dust atmosphere, the following instructions apply: If the transmitter is supplied with an intrinsically safe signal "ic" and interfaces an intrinsically safe signal "ic" (e.g. a passive device), the transmitter shall be mounted in a metal enclosure that provides a degree of protection of at least IP6X according to EN/IEC 60529, and that is suitable for the application.

### CSA Installation drawing 6331QC01 - V1R0

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

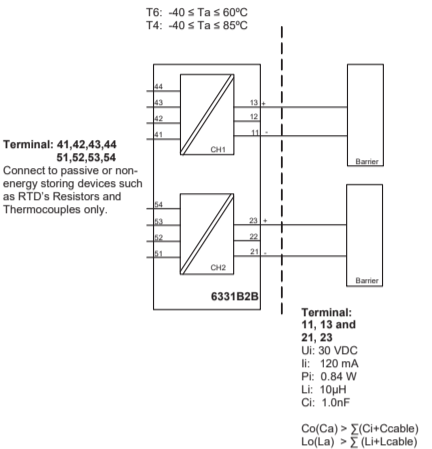


#### Installation notes

The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The Canadian Electrical Code (CEC).

Substitution of components may impair intrinsic safety.

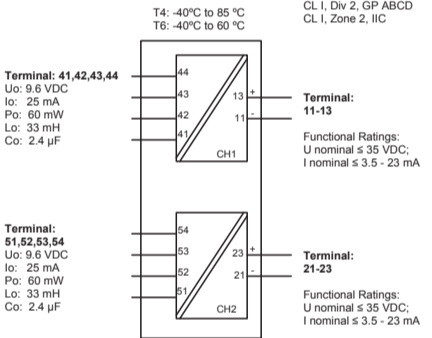
Hazardous (Classified) Location IS, Class I, Division 1, Group A,B,C,D T4, T6  
Ex ia IIC T4, T6 Ga  
Class I, Zone 0, AEx ia IIC T4, T6 Ga



### CSA Installation drawing 6331QC02 - V1R0

For safe installation of the single channel 6331A2A or the two channel 6331A2B 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 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



#### NI Installation instructions

The transmitter must be installed in an enclosure 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.

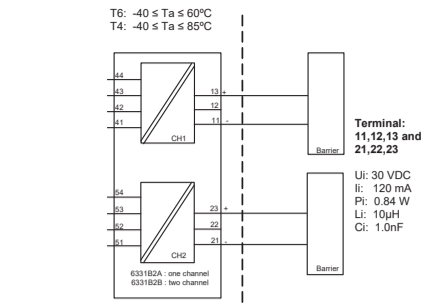
WARNING: Substitution of components may impair suitability for Class I, Division 2. AVERTISSEMENT: la substitution de composants peut nuire à l'aptitude à la Classe I, Division 2.

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 incandive field wiring installation The non incandive field wiring circuit concept allows interconnection of Nonincandive Field wiring Apparatus with Associated Nonincandive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specially examined in combination as a system using any of the wiring methods permitted for unclassified locations.

### FM Installation Drawing 6331QF01-V1R0

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



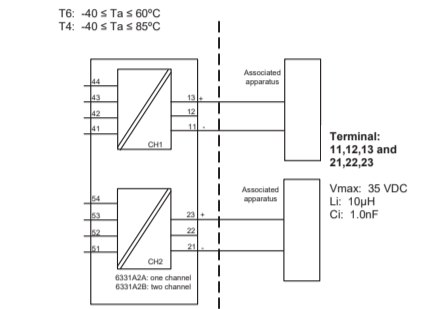
#### Installation notes

For installation in Class I the Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The National Electrical Code (ANSI-NFPA 70).

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 (C) for each intrinsically device and the interconnecting wiring must be less than the capacitance (Ca) which can be safely connected to the barrier.

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



#### Installation notes

The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The National Electrical Code (ANSI-NFPA 70).

To assure a Non-Incandive system the transmitter and associated apparatus must be wired in accordance with the associated apparatus manufacturers field wiring instructions and the circuit diagram shown above.

### EU DECLARATION OF CONFORMITY



(6331\_6334DoC\_102)

As manufacturer PR electronics A/S, Lerbakken 10, DK-8410 Rønde hereby declares that the following products: 6331 / 6334 Name: 2-Wire programmable transmitter From serial no.: 161632085 (6331) / 161632109 (6334) 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 + A11 : 2013, EN 60079-11 : 2012 and EN 60079-15 : 2010 ATEX certificate: KEMA 06ATEX0115 X

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

Rønde, 5 December 2017

Stig Lindemann, CTO  
Manufacturer's signature