

## 5332N, 5332A & 5332D



### 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 installations vejledning ved montering i eksplosionsfarlig område.

### SIKKERHEDSREGLER

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

### Miljøforhold

Undgå direkte sollys, kraftigt støv eller varme, mekaniske ystelser og stød, og udsæt ikke modulet for regn eller kraftigt fugt. Om nødvendigt skal opstartning og demontage foretages inden for omgivelsestemperatur, forhindres ved hjælp af ventilation.

### Installation

Modulet må kun tilsluttes af kvalificerede teknikere, som er bekendt med de tekniske udtryk, advarsler og instruktioner i installationsvejledningen og som vil følge disse. Hvis der er tvivl om modulets 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 materiel bl.a. med hensyn til ledningsværnsnit, før sikring og placering. Beskrivelse af indgang / udgang og forsyningsforbindelser findes i produktmanualen, som kan hentes på www.prelctronics.dk.

### Kalibrering og justering

Under kalibrering og justering skal måling og tilslutning af eksterne spændinger udføres i henhold til denne installations-vejledning, og teknikeren skal benytte sikkerhedsmæssigt korrekte værktøjer og instrumenter.

### Renngøring

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

### PC-programmering af SYSTEM 5300

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 tilslutning forsyningsspænding. Idet kommunikationsinterface leverer nødvendig forsyning til opsettningen. Kommunikationsinterface er galvanisk isoleret, så PCens port er optimalt beskyttet. Kommunikationen er 2-vejs, så modulets opsettning kan hentes ind i PC'en, og opsettningen i PC'en kan sendes til modulet. For de brugere, der ikke selv vil foretage opsettning, kan modulet leveres konfigureret efter oplyst specifikation: indgangstype, måleområde, følerfejeldetektering og udgangssignal.

### Elektriske specifikationer

Specifikationsområde.....	-40°C til +85°C
Forsyningsspænding, 5332N & 5332A.....	7.2..35 VDC
Internt effekttab, 5332N & 5332A.....	25 mW..0.8 W
Forsyningsspænding, 5332D.....	7.2..30 VDC
Internt effekttab, 5332D.....	25 mW..0.7 W
Kalibreringstemperatur.....	20..28°C
Relativ fugtighed.....	< 95% RH (ikke kond.)
Mål.....	Ø44 x 20,2 mm
Kapslingsklasse (hus/klemme).....	IP68 / IP00
<b>Indgangstyper</b>	
P1100.....	-200°C..+850°C
N1100.....	-60°C..+250°C
Lin. R.....	0 Ω..5000 Ω
<b>Strømdudgang</b>	
Signalområde.....	4..20 mA
Min. signalområde.....	16 mA
Belastningsmodstand, Ω.....	≤ (V <sub>forsyn.</sub> -7.2 V)/0.023

### Overholde myndighedskrav

EMC.....	2014/30/EU & UK SI 2016/1091
ATEX.....	2014/34/EU & UK SI 2016/1107
RoHS.....	2011/65/EU & UK SI 2012/3032
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011

### Godkendelser

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

### 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.

### 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.

### Mouting

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 found on www.prelctronics.com.

### 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 5300

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, 5332N & 5332A.....	7.2..35 VDC
Internal power dissipation, 5332N & 5332A.....	25 mW..0.8 W
Supply voltage, 5332D.....	7.2..30 VDC
Internal power dissipation, 5332D.....	25 mW..0.7 W
Calibration temperature.....	20..28°C
Relative humidity.....	< 95% RH (non-cond.)
Dimensions.....	Ø44 x 20.2 mm
Protection degree (enclosure terminal).....	IP68 / IP00
<b>Input types</b>	
P1100.....	-200°C..+850°C
N1100.....	-60°C..+250°C
Lin. R.....	0 Ω..5000 Ω
<b>Current output</b>	
Signal range.....	4..20 mA
Min. signal range.....	16 mA
Load resistance, Ω.....	≤ (V <sub>supply</sub> -7.2 V)/0.023

### Observed authority requirements

EMC.....	2014/30/EU & UK SI 2016/1091
ATEX.....	2014/34/EU & UK SI 2016/1107
RoHS.....	2011/65/EU & UK SI 2012/3032
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011

### Approvals

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

### 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 panne 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.

### CONSIGNES DE SECURITE

Réception et déballage  
Déballer 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 derniers. 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 sur www.prelctronics.fr.

### 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 5300

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, 5332N & 5332A.....	7.2..35 Vcc
Puissance dissipée, 5332N & 5332A.....	25 mW..0.8 W
Tension d'alimentation, 5332D.....	7.2..30 Vcc
Puissance dissipée, 5332D.....	25 mW..0.7 W
Température d'étalonnage.....	20..28°C
Humidité relative.....	< 95% HR (sans cond.)
Dimensions.....	Ø44 x 20,2 mm
Degré de protection (boîtier/bornier).....	IP68 / IP00
<b>Types d'entrée</b>	
P1100.....	-200°C..+850°C
N1100.....	-60°C..+250°C
Lin. R.....	0 Ω..5000 Ω
<b>Types d'entrée</b>	
Gamme de signal.....	4..20 mA
Plage de signal min.....	16 mA
Résistance linéaire.....	0 Ω..5000 Ω

### Sortie courant

Gamme de signal.....	4..20 mA
Plage de signal min.....	16 mA
Résistance de charge, Ω.....	≤ (V <sub>alim.</sub> -7.2 V)/0.023

### Compatibilité avec les normes

CEM.....	2014/30/UE & UK SI 2016/1091
ATEX.....	2014/34/UE & UK SI 2016/1107
RoHS.....	2011/65/UE & UK SI 2012/3032
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011

### Approbations

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

### DE WARNUNG

Folgende Maßnahmen sollten nur in spannungslosem Zustand des Gerätes und unter ESD-sicheren Verhältnisse durchgeführt werden: Installation, Montage und Demontage von Leitungen. Fehleruche im Gerät, und Reparaturen des Gerätes dürfen nur von PR electronics A/S vorgenommen werden.

### WARNUNG

Benutzen Sie die Programmierschnittstelle Loop Link nicht im Ex Bereich. Zur Montage in klassifizierten Zonen müssen die Geräte nach den dazugehörigen Einbauezeichnungen installiert werden.

### SICHERHEITSGEDELN

Empfang und Auspacken  
Packen Sie das Gerät aus, ohne es zu beschädigen, und kontrollieren Sie beim Empfang, ob der Gerätetyp Ihrer Bestellung entspricht. Die Verpackung sollte beim Gerät bleiben, bis dieses am endgültigen Platz montiert ist.

### Umgebungsbedingungen

Direkte Sonneneinstrahlung, starke Staubeentwicklung oder Hitze, mechanische Erschütterungen und Stöße sind zu vermeiden das Gerät darf nicht Regen oder starker Feuchtigkeit ausgesetzt werden. Bei Bedarf muss eine Erwärmung, welche die angegebenen Grenzen für die Umgebungstemperatur überschreitet, mit Hilfe eines Kühlagläses verhindert werden.

### Installation

Das Gerät darf nur von qualifizierten Technikern angeschossen werden, die mit den technischen Ausdrücken, Warnungen und Anweisungen in dieser Installationsanleitung vertraut sind und diese befolgen. Sollten Zweifel bezüglich der richtigen Handhabung des Gerätes bestehen, sollte man mit dem Händler vor Ort Kontakt aufnehmen. Sie können aber auch direkt mit PR electronics GmbH Kontakt aufnehmen.

Die Installation und der Anschluss des Gerätes haben in Übereinstimmung mit den geltenden Regeln des jeweiligen Landes bez. der Installation elektrischer Apparaturen zu erfolgen, u.a. bezüglich Leitungsquerschnitt, (elektrischer) Vor-Absicherung und Positionierung. Eine Beschreibung von Eingangs- / Ausgangs- und Versorgungsanschlüssen befindet sich im Produkthandbuch, das unter www.prelctronics.de gefunden und abgerufen werden kann.

### Kalibrering und Justierung

Während der Kalibrering und Justierung sind die Messung und der Anschluss externer Spannungen entsprechend dieser Installationsanleitung auszuführen, und der Techniker muss hierbei sicherheitsmäßig einwandfreie Werkzeuge und Instrumente benutzen.

### Reinigung

Das Gerät darf in spannungslosem Zustand mit einem Lappen gereinigt werden, der mit destilliertem Wasser leicht angefeuchtet ist.

### PC-Programmierung des Systems 5300

Das Gerät wird für die jeweilige Aufgabe mit Hilfe eines PCs und PR electronics A/S Kommunikationschnittstelle Loop Link konfiguriert. Es ist möglich, das Gerät sowohl mit als auch ohne angeschlossene Versorgungsspannung zu konfigurieren, da die Kommunikationsschnittstelle die notwendige Versorgung für die Einstellung liefert. Die Kommunikationsschnittstelle ist galvanisch isoliert, sodass der Anschluss des PCs optimal geschützt ist. Die Kommunikation erfolgt in beiden Richtungen, sodass die Einstellung des Gerätes in den PC geholt, und die Einstellung im PC an das Gerät gesandt werden kann. Für diejenige Anwender, welche die Einstellung nicht selbst vornehmen wollen, kann das Gerät nach folgenden Kundenspezifikationen konfiguriert geliefert werden: Eingangstyp, Messbereich, Fehlererkennung und Ausgangssignal.

### Elektrische Daten

Spezifikationsbereich.....	-40°C bis +85°C
Versorgungsspannung, 5332N & 5332A.....	7.2..35 VDC
Verlustleistung, 5332N & 5332A.....	25 mW..0.8 W
Versorgungsspannung, 5332D.....	7.2..30 VDC
Verlustleistung, 5332D.....	25 mW..0.7 W
Kalibreringstemperatur.....	20..28°C
Luftfeuchtigkeit.....	< 95% RF (nicht kond.)
Måb.....	Ø44 x 20,2 mm
Schutzart (Gehäuse / Anschluss).....	IP68 / IP00
<b>Eingangs-Typen</b>	
P1100.....	-200°C..+850°C
N1100.....	-60°C..+250°C
Lin. R.....	0 Ω..5000 Ω

### Stromausgang

Signalbereich.....	4..20 mA
Min. Signalbereich.....	16 mA
Belastungswiderstand, Ω.....	≤ (V <sub>Versorg.</sub> -7.2 V)/0.023

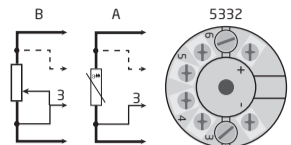
### Eingehaltene Behördenvorschriften

EMV.....	2014/30/EU & UK SI 2016/1091
ATEX.....	2014/34/EU & UK SI 2016/1107
RoHS.....	2011/65/EU & UK SI 2012/3032
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011

### Zulassungen

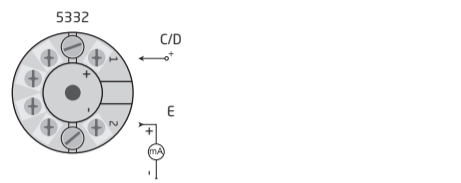
EAC Ex..... RU C-DK.HA65.B.00355/19

DK Indgangssignaler UK Input signals FR Signaux d'entrée DE Eingangssignale



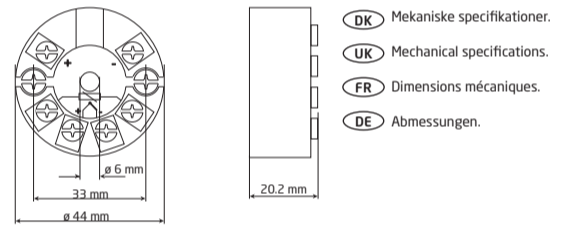
	DK	UK	FR	DE	5332
A	RTD	RTD	RTD	WTH	X
B	Lin R	Lin R	Lin R	Lin R	X

DK Udgangssignaler UK Output signals FR Signaux de sortie DE Ausgangssignale



	DK	UK	FR	DE	5332N 5332A	5332D
C	Forsyning +7.2...35 VDC	Supply +7.2..35 VDC	Alimentation +7.2..35 Vcc	Versorgung +7.2..35 VDC	X	
D	Forsyning +7.2...30 VDC	Supply +7.2..30 VDC	Alimentation +7.2..30 Vcc	Versorgung +7.2..30 VDC		X
E	4..20 mA udgang	4..20 mA output	Sortie 4..20 mA	4..20 mA-Ausgang	X	X

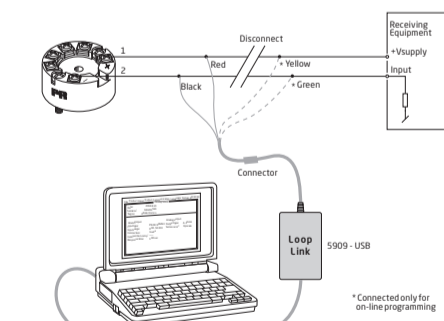
DK **Montering af følerledninger**  
Ledninger monteres mellem metalpladerne. Ledningskvadrat (max.) 1 x 1,5 mm<sup>2</sup> flerkoret ledning. Klemskræft/spændingsmoment 0,4 Nm.  
UK **Mounting of sensor wires**  
Wires must be mounted between the metal plates. Max. wire size 1 x 1.5 mm<sup>2</sup> stranded wire. Screw terminal torque 0.4 Nm.  
FR **Montage des fils du capteur**  
Les fils doivent être montés entre les plaques métalliques. Taille max. des fils 1 x 1,5 mm<sup>2</sup> fils multibrins. Pression max. avant déformation de la vis 0,4 Nm.  
DE **Montage von Föhlerleitungen**  
Die Leitungen müssen zwischen den Metalplatten montiert werden. Leitungsquerschnitt (max.) 1 x 1,5 mm<sup>2</sup> Litzendraht. Klemmschraubenanzugsmoment 0,4 Nm.



- DK Dokumentation, godkendelser og yderligere information findes på internettet på [www.prelctronics.dk](http://www.prelctronics.dk)
- UK Documentation, permits and other information can be found on the internet at [www.prelctronics.com](http://www.prelctronics.com)
- FR La documentation et toute autre information peuvent être trouvées sur l'Internet sur notre site: [www.prelctronics.fr](http://www.prelctronics.fr)
- DE Dokumentationen, Zulassungen und andere Informationen können auf unserer Internet-Seite unter [www.prelctronics.de](http://www.prelctronics.de) gefunden und abgerufen werden.
- BR Documentações, licenças e outras informações podem ser encontradas no site [www.prelctronics.com](http://www.prelctronics.com)

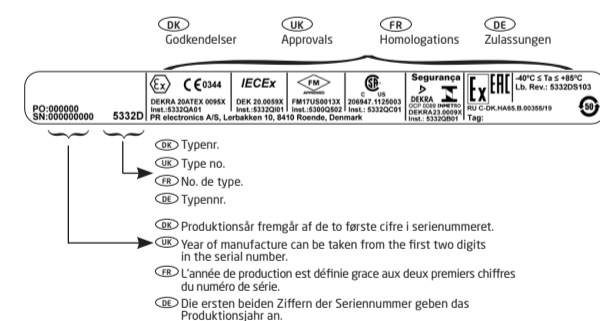
DK Godkendelser UK Approvals FR Approbations DE Zulassungen BR Aproveçoes

	ATEX	Area / Zone	Installation drawing	IECEX	Area / Zone	Installation drawing	FM	Zone / Div.	Installation drawing	CSA	Zone / Div.	Installation drawing	INMETRO	Zone / Div.	Installation drawing
<b>5332A</b>	DEKRA 20ATEX0096 X	2, 22	5332QA02	DEK 20.0059X	2, 22	5332QI02				1125003	2 / Div 2	5331QC02	DEKRA 23.0009X	2, 22	5332QB02
<b>5332D</b>	DEKRA 20ATEX0095 X	0, 1, 2, 21, 22, M1	5332QA01	DEK 20.0059X	0, 1, 2, 21, 22, M	5332QI01	FMI17US0013X	0, 1, 2 / Div 1, 2	5332QC01	1125003	0, 1, 2 / Div 1, 2	533XQC03	DEKRA 23.0009X	0, 1, 2, 21, 22, M	5332QB01



- DK Loop Link er et kommunikationsinterface, der er nødvendigt for programmering af 53xx. Loop Link må ikke benyttes til kommunikation med moduler installeret i Ex-område.
- UK Loop Link is a communications interface that is needed for programming 53xx. Loop link is not approved for communication with devices installed in hazardous (Ex) areas.
- FR Loop Link est un kit de programmation permettant de programmer le 53xx. Loop Link ne doit pas être utilisé pour communication avec des modules installés en zone dangereuse.
- DE Loop Link ist eine Schnittstelle zur Programmierung des 53xx. Loop Link darf nicht zur Kommunikation mit Geräten, die in Ex-gefährdeten Bereichen installiert sind, benutzt werden.

DK Sideskilt UK Side label FR Etiquette DE Typenschild



### EU DECLARATION OF CONFORMITY (5332DoC\_106)

As manufacturer PR electronics A/S, Lerbakken 10, DK-Ø410 Rande hereby declares that the following products: Type: 5332 Name: 2-wire programmable RTD transmitter From serial no.: 211661138 is in conformity with the following statutory requirements:  
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 IEC 60079-0 : 2018, EN 60079-7 : 2015 + A1 : 2018, EN 60079-11 : 2012 and EN 60079-15 : 2010 ATEX certificate: DEKRA 20ATEX0096 X (5332A) ATEX certificate: DEKRA 20ATEX0095 X (5332D)  
ATEX notified body (type approval): DEKRA Certification B.V. Heander 1051, 68225 PJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands  
The RoHS Directive 2011/65/EU and later amendments EN IEC 63000 : 2018  
Notified body 0344 DEKRA Certification B.V. Heander 1051, 68225 PJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands  
This declaration of conformity is issued under the sole responsibility of the manufacturer.  
Rande, 2 November 2022  
*Sig Lindemann, CTO*  
Manufacturer's signature

### UK DECLARATION OF CONFORMITY (5332DoC\_UKCA\_100)

As manufacturer PR electronics A/S, Lerbakken 10, DK-Ø410 Rande hereby declares that the following product: Type: 533

### 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

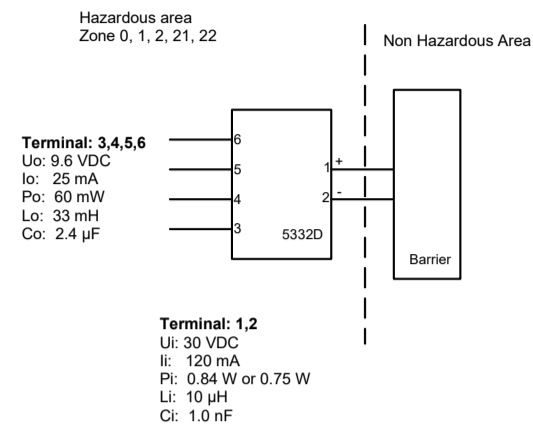


Table with columns: Temperature Class, Ambient temperature range, Pi: 0.84 W, Pi: 0.75 W. Rows: T6, T5, T4.

#### 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.

### 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

Table with columns: Terminal 3,4,5,6, Terminal 1,2, Terminal 1,2, Terminal 1,2. Rows: Ex ic IIC, Ex ic IIIC, Uo, Io, Po, Lo, Co.

Table with columns: Ex ic IIC, Ex ic IIIC Temperature Class, Ambient temperature range, Ui=35 V, Ui=24 V. Rows: T6, T5, T4.

Table with columns: Ex ec, Ex nA Temperature Class, Ambient temperature range, Vmax=35 V, Vmax=24 V. Rows: T6, T5, T4.

#### 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.

### 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

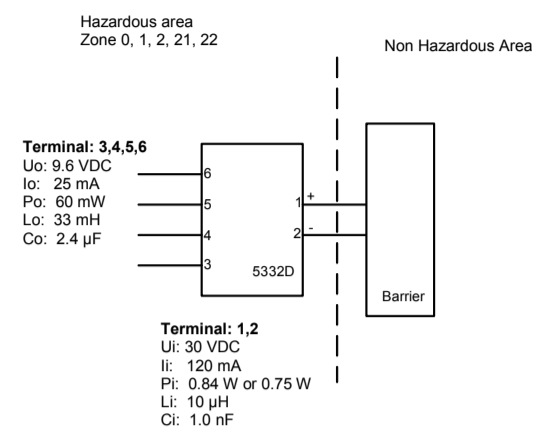


Table with columns: Temperature Class, Ambient temperature range, Pi: 0.84 W, Pi: 0.75 W. Rows: T6, T5, T4.

#### 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.

### 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

Table with columns: Terminal 3,4,5,6, Terminal 1,2, Terminal 1,2, Terminal 1,2. Rows: Ex ic IIC, Ex ic IIIC, Uo, Io, Po, Lo, Co.

Table with columns: Ex ic IIC, Ex ic IIIC Temperature Class, Ambient temperature range, Ui=35 V, Ui=24 V. Rows: T6, T5, T4.

Table with columns: Ex ec, Ex nA Temperature Class, Ambient temperature range, Vmax=35 V, Vmax=24 V. Rows: T6, T5, T4.

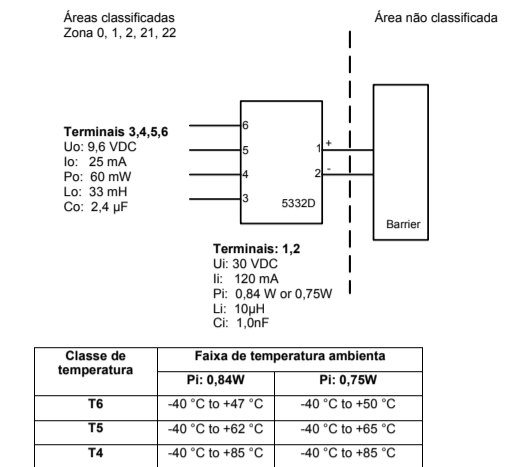
#### Installation notes

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.

### Desenho de Instalação INMETRO 5332QB01-V2R0

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.

Certificado DEKRA 23.0009 X
Marcas Ex ia IIC T6...T4 Ga
Ex ia IIIC Db
Ex ia I Ma
Normas ABNT NBR IEC 60079-0:2020 Versão Corrigida:2023
ABNT NBR IEC 60079-11:2013 Versão Corrigida:2017



#### Notas de instalação

Se o invólucro for feito de materiais plásticos não metálicos, devem ser evitadas cargas eletrostáticas no invólucro do transmissor.
Se o transmissor for instalado em uma atmosfera explosiva que exija o uso de nível de proteção de equipamento Ga, o transmissor deverá ser montado em um invólucro que forneça um grau de proteção de pelo menos IP20 de acordo com a ABNT NBR IEC 60529, e que seja adequado para a aplicação e corretamente instalado.

### Desenho de Instalação INMETRO 5332QB02-V2R0

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.

Certificado DEKRA 23.0009 X
Marcas Ex ec [ic] IIC T4, T6 Gc
Ex ic IIC T4, T6 Gc
Ex ic IIIC Dc
Normas ABNT NBR IEC 60079-0:2020 Versão Corrigida:2023
ABNT NBR IEC 60079-7:2018 Versão Corrigida:2022
ABNT NBR IEC 60079-11:2013 Versão Corrigida:2017

Table with columns: Terminals 3,4,5,6, Terminals 1,2, Terminals 1,2, Terminals 1,2. Rows: Ex ic IIC, Ex ic IIIC, Uo, Io, Po, Lo, Co.

Table with columns: Ex ic IIC, Ex ic IIIC Classe de temperatura, Faixa de temperatura ambiente, Ui=35V, Ui=24V. Rows: T6, T5, T4.

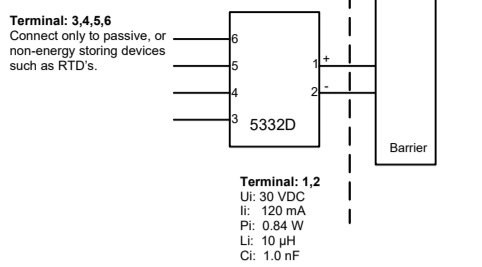
Table with columns: Ex ec, Classe de temperatura, Faixa de temperatura ambiente, Umax=35V, Umax=24V. Rows: T6, T5, T4.

#### Notas para instalação

Se o invólucro for feito de materiais plásticos não metálicos, devem ser evitadas cargas eletrostáticas no invólucro do transmissor.
Se o transmissor for instalado em uma atmosfera explosiva que exija o uso de nível de proteção de equipamento Gc e aplicado no tipo de proteção Ex ic, o transmissor deverá ser montado em um gabinete que forneça um grau de proteção de pelo menos IP20 de acordo com ABNT NBR IEC 60529, e adequado à aplicação e instalado corretamente.

### CSA Installation drawing 5332QC01 - V2R0

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

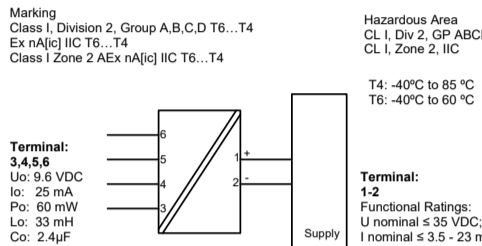


Terminal: 3,4,5,6
Uo: 9.6 VDC
Io: 25 mA
Po: 60 mW
Lo: 33 mH
Co: 2.4 µF
Terminal: 1,2
Ui: 30 VDC
Ii: 120 mA
Pi: 0.84 W or 0.75 W
Li: 10 µH
Ci: 1.0 nF

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
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 T6...T4
Ex ia IIC T6...T4
Class I, Zone 0, AEx ia IIC Ga
Warning: Substitution of components may impair intrinsic safety.

### CSA Installation drawing 5331QC02 - V2R0

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.

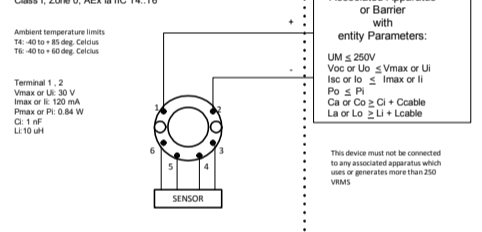


#### NI Installation instructions

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.
WARNING: Substitution of components may impair suitability for Class I, Division 2.
WARNING: Do not disconnect equipment unless power has been switched off or the area is known to be safe.

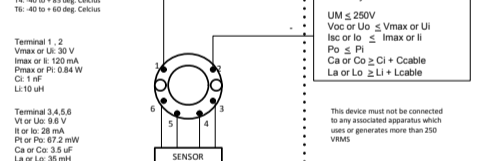
### FM Installation Drawing 5300Q502 V3R0

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 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
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.

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

Table with columns: Part Name, Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr (VI)), Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE). Row: Printed circuit board.

This table is prepared in accordance with the provisions of SJ/T 11364
O: 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

