

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.
Enderedene skal installeres i henhold til den tilhørende installations vejledning ved montering i eksplosionsfarlig område.

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

Miljøforhold
Undgå direkte sollys, kraftigt støv eller varm, mekaniske tryk og støv, og udsæt ikke modulet for regn eller kraftigt fugt. Om nødvendigt skal oprensning og demontage. 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 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, for-sikring og placering.
Beskrivelse af indgang / udgang og forsyningsforbindelser findes i produktmanualen, som kan hentes på www.prellectronics.dk.

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 korrekt værktøj 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 tilsluttet forsyningsspænding. Idet kommunikationsinterface leverer nødvendig forsyning til opsettningen. Kommunikationsinterface er galvanisk isoleret, så PCens port er optimalt beskyttet. Kommunikation er 2-vejs, så modulets 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, følerfejldetektering og udgangssignal.

Elektriske specifikationer

| | |
|-----------------------------------|---------------------------------|
| Specifikationsområde..... | -40°C til +85°C |
| Forsyningsspænding..... | 5333A & 5343A..... 8.0..35 VDC |
| Internt effekttab..... | 5333A & 5343A..... 25 mW..0.8 W |
| Forsyningsspænding..... | 5333D & 5343B..... 8.0..30 VDC |
| Internt effekttab..... | 5333D & 5343B..... 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 |

Indgangstyper:

| | |
|-------------------|----------------|
| *P1100..... | -200°C..+850°C |
| *N1100..... | -60°C..+250°C |
| Lin. R. 5333..... | 0 Ω..10000 Ω |
| Lin. R. 5343..... | 0 Ω..100 kΩ |

Strømdugang:

| | |
|-----------------------------|--------------------------|
| Signalområde..... | 4..20 mA |
| Min. signalområde..... | 16 mA |
| Belastningsmodstand, Ω..... | ≤ (Vforsyn.-8.0 V)/0.023 |

Overholdte 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 |

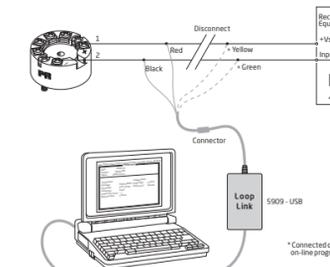
Godkendelser:

| | |
|----------------------------|------------|
| DNV, Ships & Offshore..... | TAA0000101 |
|----------------------------|------------|

* Gælder kun 5333

DK Godkendelser **UK** Approvals **FR** Approbations **DE** Zulassungen **BR** Aprovações

| DK | ATEX | Area / Zone | Installation drawing | IECEX | Area / Zone | Installation drawing | FM | Zone / Div. | Installation drawing | CSA | Zone / Div. | Installation drawing | INMETRO | Area | Installation drawing | EAC Ex |
|-------|--------------------|---------------------|----------------------|--------------|---------------------|----------------------|-------------|--------------------|----------------------|-----------|--------------------|----------------------|---------------------|---------------------|-----------------------------|-----------------------------|
| 5333A | DEKRA 20ATEX0106 X | 2, 22 | 5333QA02 | DEK 20.0062X | 2, 22 | 5333QA02 | | | 1125003 | 2 / Div 2 | 5333QC02 | DEKRA 23.0010 X | 2, 22 | 5333QB02 | EAEU KZ 7500361.01.01.08756 | |
| 5343A | DEKRA 20ATEX0106 X | 2, 22 | 5343QA02 | DEK 20.0062X | 2, 22 | 5343QI02 | | | | | | DEKRA 23.0010 X | 2, 22 | 5333QB02 | EAEU KZ 7500361.01.01.08756 | |
| 5333D | DEKRA 20ATEX0105 X | 0, 1, 2, 21, 22, M1 | 5333QA01 | DEK 20.0062X | 0, 1, 2, 21, 22, M1 | 5333QI01 | FM17US0013X | 0, 1, 2 / Div 1, 2 | 5300Q502 | 1125003 | 0, 1, 2 / Div 1, 2 | 5333QC03 | DEKRA 23.0010 X | 0, 1, 2, 21, 22, M1 | 5333QB01 | EAEU KZ 7500361.01.01.08756 |
| 5343B | DEKRA 20ATEX0105 X | 0, 1, 2, 21, 22, M1 | 5343QA01 | DEK 20.0062X | 0, 1, 2, 21, 22, M1 | 5343QI01 | FM17US0013X | 0, 1, 2 / Div 1, 2 | 5300Q502 | | | DEKRA 23.0010 X | 0, 1, 2, 21, 22, M1 | 5333QB01 | EAEU KZ 7500361.01.01.08756 | |



- 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.

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 SARRL 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 SARRL. 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.prellectronics.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 SYSTÈME 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..... | 5333A & 5343A..... 8.0..35 Vcc |
| Puissance dissipée..... | 5333A & 5343A..... 25 mW..0.8 W |
| Tension d'alimentation..... | 5333D & 5343B..... 8.0..30 Vcc |
| Puissance dissipée..... | 5333D & 5343B..... 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 |

Types d'entrée:

| | |
|-------------------|----------------|
| *P1100..... | -200°C..+850°C |
| *N1100..... | -60°C..+250°C |
| Lin. R. 5333..... | 0 Ω..10000 Ω |
| Lin. R. 5343..... | 0 Ω..100 kΩ |

Sortie courant:

| | |
|------------------------------|-------------------------|
| Gamme de signal..... | 4..20 mA |
| Plage de signal min..... | 16 mA |
| Résistance de charge, Ω..... | ≤ (Vsupply-8.0 V)/0.023 |

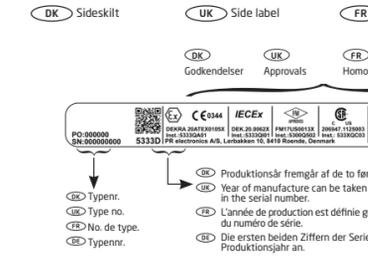
Compatibilité avec les normes:

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

Approbations:

| | |
|----------------------------|------------|
| DNV, Ships & Offshore..... | TAA0000101 |
|----------------------------|------------|

* Uniquement applicable pour 5333

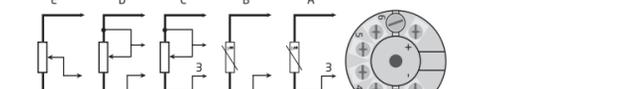


DE

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.

SICHERHEITSGEGLER
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.

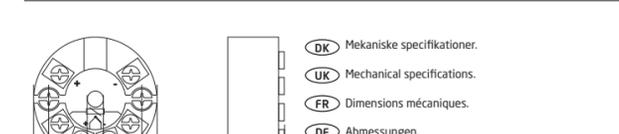
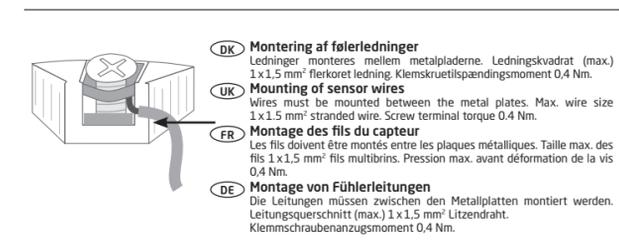


| | DK | UK | FR | DE | 5333 | 5343 |
|---|------------------------|-----------------------|-----------------------|-------------------------|------|------|
| A | RTD, 3-leder | RTD, 3-wire | RTD, 3-fils | WTH, 3-Letter | x | |
| B | RTD, 2-leder | RTD, 2-wire | RTD, 2-fils | WTH, 2-Letter | x | |
| C | Modstand, 3-leder | Resistance, 3-wire | Résistance, 3-fils | Widerstand, 3-Letter | x | x |
| D | Modstand, 2-leder | Resistance, 2-wire | Résistance, 2-fils | Widerstand, 2-Letter | x | x |
| E | Potentiometer, 3-leder | Potentiometer, 3-wire | Potentiomètre, 3-fils | Potentiometer, 3-Letter | | x |



| | DK | UK | FR | DE | 5333A | 5333D | 5343A | 5343B |
|---|------------------------|---------------------|---------------------------|-------------------------|-------|-------|-------|-------|
| F | Forsyning +8.0..35 VDC | Supply +8.0..35 VDC | Alimentation +8.0..35 Vcc | Versorgung +8.0..35 VDC | x | | x | |
| G | Forsyning +8.0..30 VDC | Supply +8.0..30 VDC | Alimentation +8.0..30 Vcc | Versorgung +8.0..30 VDC | | x | | x |
| H | 4..20 mA udgang | 4..20 mA output | Sortie 4..20 mA | 4..20 mA-Ausgang | x | x | x | x |

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 diejenigen Anwender, welche die Einstellung nicht selbst vornehmen wollen, kann das Gerät nach folgenden Kundenspezifikationen konfiguriert geliefert werden: Eingangstyp, Messbereich, Fehlerleerererkennung und Ausgangssignal.



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

EU DECLARATION OF CONFORMITY
(5333DoC_106)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
hereby declares that the following product:
Type: 5333
Name: 2-wire programmable transmitter
From serial no.: 211809511
is in conformity with the following directives and standards:
The EMC Directive 2014/53/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 20ATEX0106 X (5333A)
ATEX certificate: DEKRA 20ATEX0105 X (5333D)
ATEX notified body (type approval)
DEKRA Certification B.V.
Headline 1051, 6825 NJ Arnhem
P.O. Box 5185, 6802 ED Arnhem
The Netherlands
The RoHS2 Directive 2011/65/EU and later amendments
EN IEC 63000: 2018
Notified body 0344
DEKRA Certification B.V.
Headline 1051, 6825 NJ Arnhem
P.O. Box 5185, 6802 ED Arnhem
The Netherlands
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønde, 2 November 2022
Sig Lindemann, CTO
Manufacturer's signature

EU DECLARATION OF CONFORMITY
(5343DoC_106)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
hereby declares that the following product:
Type: 5343
Name: 2-wire level transmitter
From serial no.: 211879175
is in conformity with the following directives and standards:
The EMC Directive 2014/53/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 20ATEX0106 X (5343A)
ATEX certificate: DEKRA 20ATEX0105 X (5343B)
ATEX notified body (type approval)
DEKRA Certification B.V.
Headline 1051, 6825 NJ Arnhem
P.O. Box 5185, 6802 ED Arnhem
The Netherlands
The RoHS2 Directive 2011/65/EU and later amendments
EN IEC 63000: 2018
Notified body 0344
DEKRA Certification B.V.
Headline 1051, 6825 NJ Arnhem
P.O. Box 5185, 6802 ED Arnhem
The Netherlands
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønde, 2 November 2022
Sig Lindemann, CTO
Manufacturer's signature

UKCA DECLARATION OF CONFORMITY
(5333DoC_UKCA_100)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
hereby declares that the following product:
Type: 5333
Name: 2-wire programmable transmitter
From serial no.: 211809511
is in conformity with the following statutory requirements:
The Electromagnetic Compatibility Regulations 2016 (UK SI 2016/01091) 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 Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (UK SI 2016/1107) and later amendments
EN 60079-0: 2018, EN 60079-7: 2015 + A1: 2018, EN 60079-11: 2012 and EN 60079-15: 2010
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK SI 2012/3032) and later amendments
EN IEC 63000: 2018
The conformity declared by this document is based on the EU standards covered by 5333_DoC_EU_106 and the ATEX certificate:
DEKRA 20ATEX0106 X (5333A)
DEKRA 20ATEX0105 X (5333D)
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønde, 30 May 2024
Sig Lindemann, CTO
Manufacturer's signature

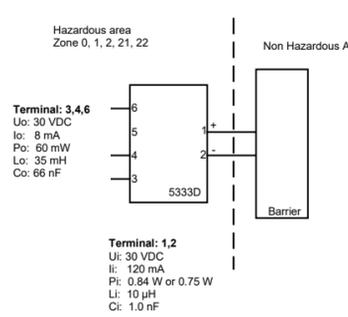
UKCA DECLARATION OF CONFORMITY
(5343DoC_UKCA_100)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
hereby declares that the following product:
Type: 5343
Name: 2-wire level transmitter
From serial no.: 211879175
is in conformity with the following statutory requirements:
The Electromagnetic Compatibility Regulations 2016 (UK SI 2016/01091) 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 Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (UK SI 2016/1107) and later amendments
EN 60079-0: 2018, EN 60079-7: 2015 + A1: 2018, EN 60079-11: 2012 and EN 60079-15: 2010
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK SI 2012/3032) and later amendments
EN IEC 63000: 2018
The conformity declared by this document is based on the EU standards covered by 5343DoC_EU_106 and the ATEX certificate:
DEKRA 20ATEX0106 X (5343A)
DEKRA 20ATEX0105 X (5343B)
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønde, 30 May 2024
Sig Lindemann, CTO
Manufacturer's signature

ATEX-installation drawing 5333QA01-V3R0

For safe installation of 5333D 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 20ATEX0105 X |
| Marking | II 1 G Ex ia IIC T6 ... T4 Ga II 2 D Ex ia IIC Db I M1 Ex ia I Ma |
| Standards | EN 60079-0: 2018, EN 60079-11: 2012 |



| Temperature Class | Ambient temperature range | |
|-------------------|---------------------------|----------------|
| | 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. 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 EN 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.

ATEX-installation drawing 5333QA02-V3R0

For safe installation of 5333A 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 20ATEX0106 X |
| Marking | II 3 G Ex nA [c] IIC T6 ... T4 Gc II 3 G Ex ec [c] IIC T6 ... T4 Gc II 3 G Ex ic IIC T6 ... T4 Gc II 3 D Ex ic IIC Dc |
| Standards | EN 60079-0: 2018, EN 60079-11: 2012, EN 60079-15: 2010, EN 60079-7: 2015 +A1: 2018 |

| Ex ic IIC, Ex ic IIC | Ambient temperature range | |
|----------------------|---------------------------|----------------|
| | UI=35 V | UI=24 V |
| T6 | -40°C to +54°C | -40°C to +63°C |
| T5 | -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 |
| T5 | -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.

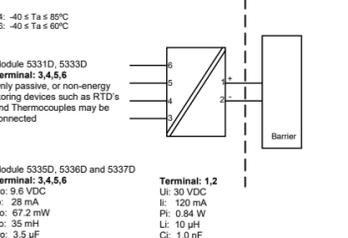
If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Dc, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to EN 60079-0, and that is suitable for the application and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

CSA Installation drawing 5333QC03 – V5R0

For safe installation of the 5333D 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.



| Temperature Class | Ambient temperature range | |
|-------------------|---------------------------|----------------|
| | 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 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 Incendive field wiring installation The non incandive field Wiring Circuit concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive 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. Voc < Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.

| Part Name | Hazardous Substances | | | | |
|-----------------------|----------------------|--------------|--------------|-------------------------------|---------------------------------------|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Hexavalent Chromium (Cr (VI)) | Polybrominated diphenyl ethers (PBDE) |
| Printed circuit board | X | 0 | 0 | 0 | 0 |

This table is prepared in accordance with the provisions of 5/17 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.



Environmental labels: DK Kina RoHS, UK China RoHS, FR RoHS chinois, DE China-RoHS

ATEX Certificate: DEKRA 20ATEX0105 X

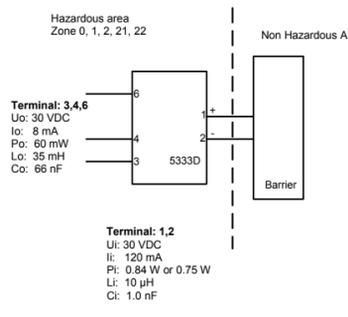
Marking: II 1 G Ex ia IIC T6 ... T4 Ga, II 2 D Ex ia IIC Db, I M1 Ex ia I Ma

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

IECEx-installation drawing 5333QI01-V3R0

For safe installation of 5333D 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 20.0062X |
| Marking | Ex ia IIC T6 ... T4 Ga Ex ia IIC 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 |
| 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 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.

IECEx-installation drawing 5333QI02-V3R0

For safe installation of 5333A 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 20.0062X |
| Marking | Ex nA [c] IIC T6 ... T4 Gc Ex ec [c] IIC T6 ... T4 Gc Ex ic IIC T6 ... T4 Gc Ex ic IIC Dc |
| Standards | IEC 60079-0: 2017, IEC 60079-11: 2011, IEC 60079-15: 2010, IEC 60079-7: 2017 |

| Ex ic IIC, Ex ic IIC | Ambient temperature range | |
|----------------------|---------------------------|----------------|
| | UI=35 V | UI=24 V |
| T6 | -40°C to +54°C | -40°C to +63°C |
| T5 | -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 |
| T5 | -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 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.

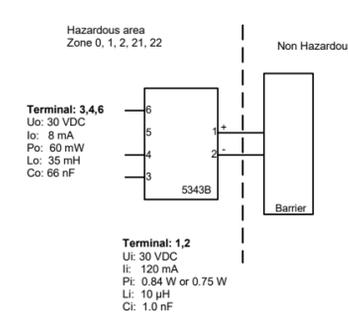
If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP54 according to EN 60079-0, 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 5343QA01-V3R0

For safe installation of 5343B 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 20ATEX0105 X |
| Marking | II 1 G Ex ia IIC T6 ... T4 Ga II 2 D Ex ia IIC Db I M1 Ex ia I Ma |
| Standards | EN 60079-0: 2018, EN 60079-11: 2012 |



| Temperature Class | Ambient temperature range | |
|-------------------|---------------------------|----------------|
| | 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. 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 EN 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.

ATEX-installation drawing 5343QA02-V3R0

For safe installation of 5343A 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 20ATEX0106 X |
| Marking | II 3 G Ex nA [c] IIC T6 ... T4 Gc II 3 G Ex ec [c] IIC T6 ... T4 Gc II 3 G Ex ic IIC T6 ... T4 Gc II 3 D Ex ic IIC Dc |
| Standards | EN 60079-0: 2018, EN 60079-11: 2012, EN 60079-15: 2010, EN 60079-7: 2015 +A1: 2018 |

| Ex ic IIC, Ex ic IIC | Ambient temperature range | |
|----------------------|---------------------------|----------------|
| | UI=35 V | UI=24 V |
| T6 | -40°C to +54°C | -40°C to +63°C |
| T5 | -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 |
| T5 | -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.

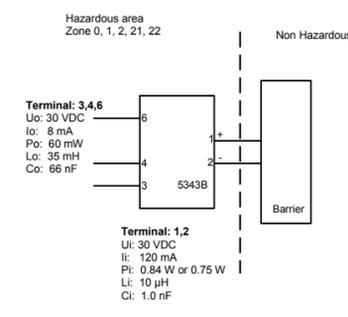
If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP54 according to EN 60079-0,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

IECEx-installation drawing 5343QI01-V3R0

For safe installation of 5343B 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 20.0062X |
| Marking | Ex ia IIC T6 ... T4 Ga Ex ia IIC 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 |
| 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 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.

IECEx-installation drawing 5343QI02-V3R0

For safe installation of 5343A 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 20.0062X |
| Marking | Ex nA [c] IIC T6 ... T4 Gc Ex ec [c] IIC T6 ... T4 Gc Ex ic IIC T6 ... T4 Gc Ex ic IIC Dc |
| Standards | IEC 60079-0: 2017, IEC 60079-11: 2011, IEC 60079-15: 2010, IEC 60079-7: 2017 |

| Ex ic IIC, Ex ic IIC | Ambient temperature range | |
|----------------------|---------------------------|----------------|
| | UI=35 V | UI=24 V |
| T6 | -40°C to +54°C | -40°C to +63°C |
| T5 | -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 |
| T5 | -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.