

DK

ADVARSEL
Følgende operationer bør kun udføres på modulet i spændingsløs tilstand og under ESD-sikre forhold. Om nødvendigt skal opsamlings- og demontage- og 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.
Enderhederne 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 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 varm, mekaniske tryk og støv, og udsæt ikke modulet for regn eller kraftigt fugt. Om nødvendigt skal opsamlings- og demontage- og fejlfinding på modulet. Reparation af modulet må kun foretages af PR electronics A/S.

Installation
Modulet må kun tilsluttes af kvalificerede teknikere, som er bekendte med de tekniske udtryk, advarsler og instruktioner i installationsvejledningen 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-sædning 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 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 tilsluttet forsyningsspænding. Idet kommunikationsinterface leverer nødvendig forsyning til opsætningen. Kommunikationsinterface er galvanisk isoleret, så PCens port er optimalt beskyttet. Kommunikationer 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.....	8.0..35 VDC
5333A & 5343A.....	25 mW..0.8 W
5333D & 5343B.....	8.0..30 VDC
Internt effekttab.....	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

Strømodgang:

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

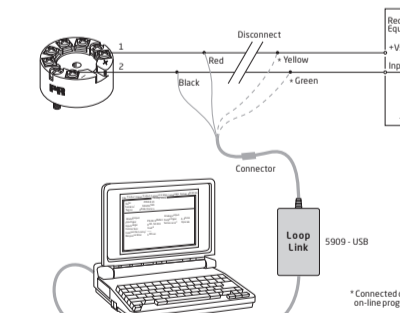
Godkendelser:

DNV, Ships & Offshore.....	TAA0000101
EAC Ex.....	RU C-DK.HA65.B.00355/19

* 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
5333A	DEKRA 20ATEX0106 X	2, 22	5333QA02	DEK 20.0062X	2, 22	5333QI02			1125003	2 / Div 2	5333QC02	DEKRA 23.0010 X	2, 22	5333QB02	
5343A	DEKRA 20ATEX0106 X	2, 22	5343QA02	DEK 20.0062X	2, 22	5343QI02								5333QB02	
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
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



- 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.

DE

WARNUNG
Følgende Maßnahmen sollten nur in spannungslosem Zustand des Gerätes und unter ESD-sicheren Verhältnisse durchgeführt werden: Installation, Montage und Demontage von Leitungen. Fehlerläufe 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 an 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 Kühlgebläses verhindert werden.

Installation
Das Gerät darf nur von qualifizierten Technikern angeschlossen 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.prellectronics.de gefunden und abgerufen werden kann.

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

Elektrische Daten

Spezifikationsbereich.....	-40°C bis +85°C
Versorgungsspannung.....	8.0..35 VDC
5333A & 5343A.....	25 mW..0.8 W
5333D & 5343B.....	8.0..30 VDC
Verlustleistung.....	25 mW..0.7 W
Kalibreringstemperatur.....	20..28°C
Luftfeuchtigkeit.....	< 95% RF (nicht kond.)
Maß.....	Ø44 x 20.2 mm
Schutzart (Gehäuse / Anschluss).....	IP68 / IP00

Eingangs-Typen:

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

Stromausgang:

Signalbereich.....	4..20 mA
Min. Signalbereich.....	16 mA
Belastungswiderstand, Ω.....	≤ (VVersor.-8.0 V)/0.023

Eingehaltene Behördenvorschriften:

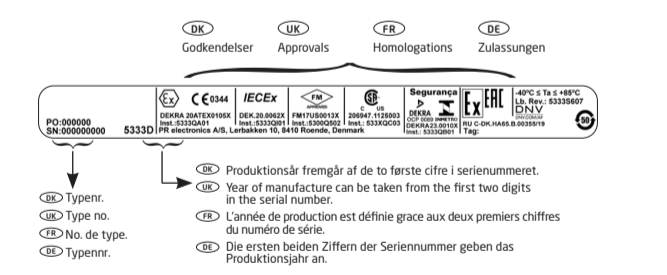
EMV.....	2014/30/EU & UK SI 2016/1091
ATEX.....	2014/34/EU & UK SI 2016/1107
RoHS.....	2011/65/EU & UK SI 2012/3032
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011

Zulassungen:

DNV, Ships & Offshore.....	TAA0000101
EAC Ex.....	RU C-DK.HA65.B.00355/19

* Gilt nur für 5333

DK Sideskilt **UK** Side label **FR** Etiquette **DE** Typenschild



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 2014/30/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 20ATEX0106 X (5333A)
ATEX certificate: DEKRA 20ATEX0105 X (5333D)
ATEX notified body (type approval):
DEKRA Certification B.V.
Heador 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.
Heador 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 2014/30/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 20ATEX0106 X (5343A)
ATEX certificate: DEKRA 20ATEX0105 X (5343B)
ATEX notified body (type approval):
DEKRA Certification B.V.
Heador 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.
Heador 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_UK_106 and the ATEX certificates:
DEKRA 20ATEX0106 X (5333A)
DEKRA 20ATEX0105 X (5333D)
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønde, 11 November 2022
Sig Lindemann, CTO
Manufacturer's signature

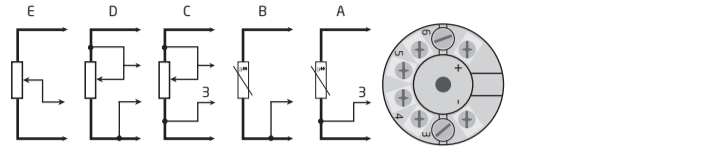
UKCA DECLARATION OF CONFORMITY (5343DoC_UKCA_100)

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_UK_106 and the ATEX certificates:
DEKRA 20ATEX0106 X (5343A)
DEKRA 20ATEX0105 X (5343B)
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønde, 11 November 2022
Sig Lindemann, CTO
Manufacturer's signature

5333A, 5333D, 5343A & 5343B

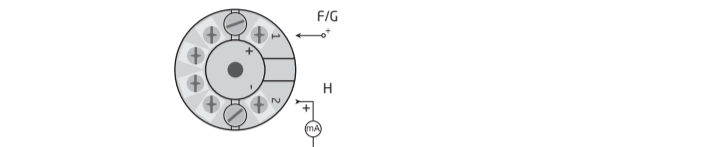


DK Indgangssignaler **UK** Input signals **FR** Signaux d'entrée **DE** Eingangssignale



	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 Udgangssignaler **UK** Output signals **FR** Signaux de sortie **DE** Ausgangssignale



	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

DK Montering af følerledninger
Ledninger monteres mellem metalpladerne. Ledningskvadrat (max.) 1x1.5 mm² flerkeret ledning. Klemkræftspændingsmoment 0.4 Nm.

UK Mounting of sensor wires
Wires must be mounted between the metal plates. Max. wire size 1x1.5 mm² 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 1x1.5 mm² fils multibrins. Pression max. avant déformation de la vis 0.4 Nm.

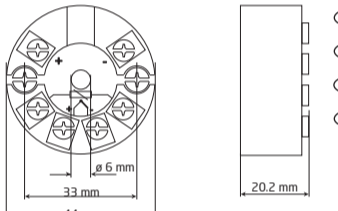
DE Montage von Fühlerleitungen
Die Leitungen müssen zwischen den Metallplatten montiert werden. Leitungsquerschnitt (max.) 1 x 1.5 mm² Litzenstrahl. Klemmschraubenanzugsmoment 0,4 Nm.

DK Mekaniske specifikationer.

UK Mechanical specifications.

FR Dimensions mécaniques.

DE Abmessungen.



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

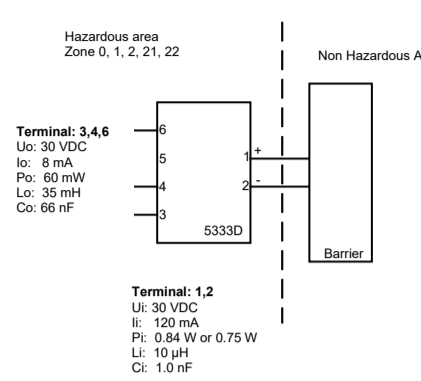
DE Dokumentationen, Zulassungen und andere Informationen können auf unserer Internet-Seite unter www.prellectronics.de gefunden und abgerufen werden.

BR Documentações, licenças e outras informações podem ser encontradas no site www.prellectronics.com

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 Dc 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.

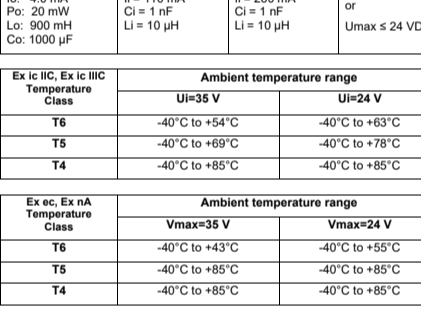
Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

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 Temperature Class	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

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

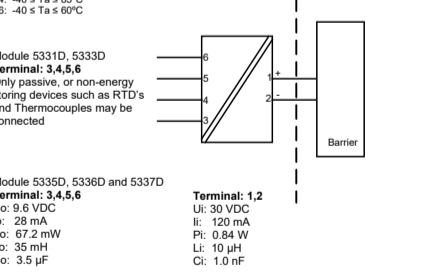
If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex ic, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to EN 60529, and that is suitable for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

CSA Installation drawing 5333QC03 – V5R0

For safe installation of the 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.



Ex ic IIC, Ex ic IIC Temperature Class	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

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entry - For Hazardous Locations
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entry - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A, B, C and D T6 ... T4
Ex ia IIC T6 ... T4 Ga
Class I, Zone 0, AEx ia IIC Ga

Warning:
Substitution of components may impair intrinsic safety.

The transmitters must be installed in a suitable enclosure to meet installation codes stipulated in the Canadian Electrical Code (CEC) or for US the National Electrical Code (NEC).

Non Incendive field wiring installation
The non incendive field Wiring Circuit concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or 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.

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
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

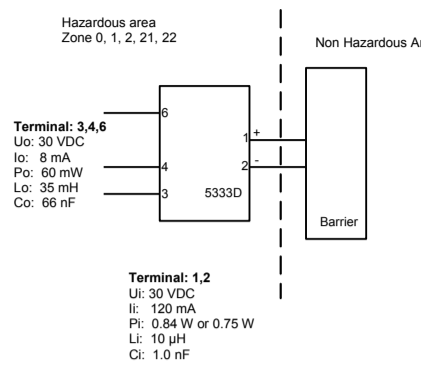


Environmental labels: DK Kina RoHS, UK China RoHS, FR RoHS chinois, DE China-RoHS

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 Dc 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.

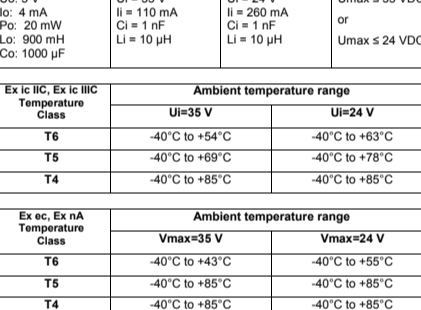
Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

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 Temperature Class	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

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

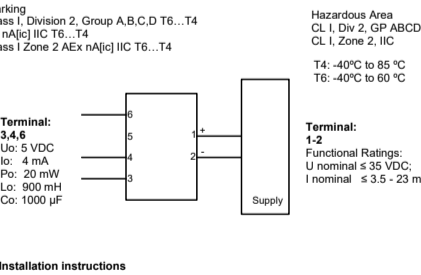
If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex ic, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to IEC 60529, and that is suitable for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

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

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

CSA Installation drawing 5333QC03 – V2R0

For safe installation of the 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.



Ex ic IIC, Ex ic IIC Temperature Class	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

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entry - For Hazardous Locations
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entry - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A, B, C and D T6 ... T4
Ex ia IIC T6 ... T4 Ga
Class I, Zone 0, AEx ia IIC Ga

Warning:
Substitution of components may impair intrinsic safety.

The transmitters must be installed in a suitable enclosure to meet installation codes stipulated in the Canadian Electrical Code (CEC) or for US the National Electrical Code (NEC).

Non Incendive field wiring installation
The non incendive field Wiring Circuit concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or 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.

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

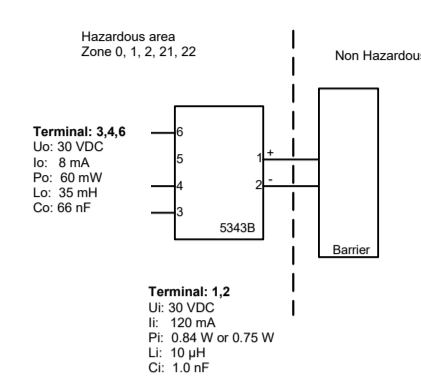


Environmental labels: DK Kina RoHS, UK China RoHS, FR RoHS chinois, DE China-RoHS

ATEX-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 Dc 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.

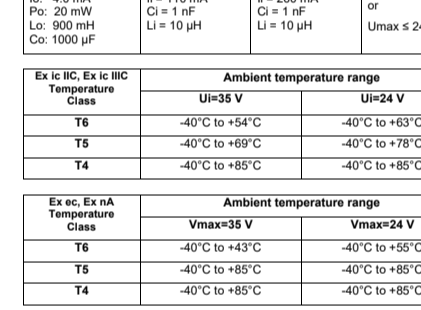
Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

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 Temperature Class	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

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

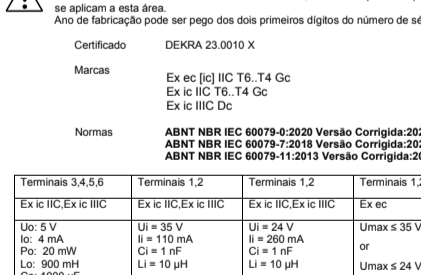
If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex ic, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to EN 60529, and that is suitable for 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 IEC 60079-0, and that is suitable for the application and correctly installed.

Desenho de Instalação INMETRO 5333QB02-V3R0

Para instalação segura do 5333A ou 5343A o seguinte deve ser observado. O modelo deve apenas ser instalado por pessoas qualificadas que são familiarizadas com as leis nacionais e internacionais, diretivas e padrões que se aplicam a esta área. Ano de fabricação pode ser pegado dos dois primeiros dígitos do número de série.



Ex ic IIC, Ex ic IIC Temperature Class	Faixa de temperatura ambiente	
	UI=35V	UI=24V
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

Normas
ABNT NBR IEC 60079-0:2020 Versão Corrigida:2023
ABNT NBR IEC 60079-1:2018 Versão Corrigida:2022
ABNT NBR IEC 60079-11:2013 Versão Corrigida:2017

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 invólucro certificado separadamente 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 instalado corretamente.

Se o transmissor for instalado em uma atmosfera explosiva que exija o uso de nível de proteção de equipamento Db, o transmissor deverá ser montado em um invólucro certificado separadamente que forneça um grau de proteção de pelo menos IP54 de acordo com a ABNT NBR IEC 60079-0, e que seja adequado para a aplicação e instalado corretamente. A temperatura da superfície do invólucro externo é +20 K acima da temperatura ambiente, determinada sem camada de poeira. Faixa de temperatura ambiente: -40°C a +85°C.

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 ec, o transmissor deverá ser montado em um invólucro certificado separadamente que forneça um grau de proteção de pelo menos IP54 de acordo com a ABNT NBR IEC 60529, e que seja adequado para a aplicação e instalado corretamente.

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 ec, o equipamento deverá ser usado somente em uma área com grau de poluição não superior a 2, conforme definido na IEC 60664-1.

Ex ec, Ex na Temperature Class	Faixa de temperatura ambiente	
	Umax=35V	Umax=24V
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

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



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

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 Dc Ex ia I Ma
Standards	IEC 60079-0: 2017, IEC 60079-11: 2011

