



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX KEM 10.0068X	Page 1 of 6	<u>Certificate history:</u>
Status:	Current	Issue No: 9	Issue 8 (2020-09-02)
Date of Issue:	2020-10-26		Issue 7 (2016-12-23)
Applicant:	PR electronics A/S Lerbakken 10 8410 Rønne Denmark		Issue 6 (2014-07-18)
Equipment:	Isolators and Converters of system 3000		Issue 5 (2013-09-27)
Optional accessory:			Issue 4 (2013-03-29)
Type of Protection:	Ex nA		Issue 3 (2012-07-05)
Marking:	Ex ec IIC T4 Gc or Ex ec nC T4 Gc		Issue 2 (2011-06-30)
			Issue 1 (2011-05-31)
			Issue 0 (2010-12-21)

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2020-10-26

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands





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Manufacturer: **PR electronics A/S**
Lerbakken 10
8410 Rønne
Denmark

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[NL/KEM/ExTR10.0077/08](#)

[NL/KEM/ExTR10.0077/09](#)

Quality Assessment Report:

[NL/DEK/QAR13.0017/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description

Isolators and Converters of system 3000 Type 3 ... for conversion and galvanic isolation of analogue signals.

The type code, the ambient temperature range and the temperature class of the modules shall be taken from **table 1**.

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from **table 1**.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

The equipment shall be installed in a suitable enclosure that provides a degree of protection of at least IP54 in accordance with IEC 60079-7.



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Equipment (continued):

Table 1

Description	Type No.	Temperature Class	Ambient Range	Supply Power/Current	Supply Voltage	Relays
Isolated Repeater	3103, 3103N	T4	-25... +70°C	0.8 Watt	16.8 ... 31.2 V	
Isolated Converter	3104, 3104N	T4	-25... +70°C	1.2 Watt	16.8 ... 31.2 V	
Isolated Repeater/ Splitter	3108, 3108N	T4	-25... +70°C	0.8 Watt	16.8 ... 31.2 V	
Isolated Converter/ Splitter	3109, 3109N	T4	-25... +70°C	1.2 Watt	16.8 ... 31.2 V	
Isolated Universal/ Converter	3114, 3114N	T4	-25... +70°C	1.2 Watt	16.8 ... 31.2 V	
Power Connector Unit	3405	T4	-25... +70°C	2.5 A	16.8 ... 31.2 V	
Loop-Powered Isolator	3185A1	T4	-25... +70°C	20 mA	-	
2 Ch Loop-Powered Isolator	3185A2	T4	-25... +70°C	2x20 mA	-	
2-Wire Transmitter Isolator	3186A1	T4	-25... +70°C	20 mA	35 V	
2 Ch 2-Wire Transmitter Isolator	3186A2	T4	-25... +70°C	2x20 mA	35 V	
2-Wire Current Isolator	3168B1	T4	-25 ... +70°C	20 mA	32.50 V	
2 Ch 2-Wire Current Isolator	3168B2	T4	-25 ... +70°C	2x20 mA	16.25 V	
Isolated Converter	3117, 3117N	T4	-25... +70°C	0.8 Watt	16.8 ... 31.2 V	
Isolated Converter/ Splitter	3118, 3118N	T4	-25... +70°C	0.8 Watt	16.8 ... 31.2 V	
TC Temperature Converter	3101	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V	
Pt100 Temperature Converter	3102	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V	
Isolated TC Temperature Converter	3111, 3111N	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V	



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Isolated Pt100 Temperature Converter	3112, 3112N	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V	
HART Temperature Converter	3113, 3113N	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V	
Loop Powered HART Temperature Converter	3337	T4	-25... +70°C	8-35V / 20 mA	-	
Loop Powered Isolated Temperature Converter	3331	T4	-25... +70°C	8-35V / 20 mA	-	
Loop Powered Pt100 Temperature Converter	3333	T4	-25... +70°C	8-35V / 20 mA	-	
Universal Frequency Converter	3225A, 3225A-N	T4	-25... +70°C	1.2 Watt	16.8 ... 31.2 V	
Universal Frequency Converter	3225B, 3225B-N	T4	-25... +70°C	1.2 Watt	16.8 ... 31.2 V	X



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update to IEC 60079-0 :2017 (Ed.7), IEC 60079-7 :2015 (Ed.5.1), IEC 60079-15 : 2017 (Ed. 5) and addition of modules 3225A, 3225A-N, 3225B, 3225B-N.