



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 08.0025X**

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Certificate history:

Status: **Current**

Issue No: 5

Issue 4 (2014-11-12)

Issue 3 (2009-11-09)

Issue 2 (2009-05-25)

Issue 1 (2008-11-04)

Issue 0 (2008-08-15)

Date of Issue: 2020-07-10

Applicant: **PR electronics A/S**
Lerbakken 10
8410 Rønede
Denmark

Equipment: **Power Control Unit Type 9410**

Optional accessory: Power Rail Type 9400

Type of Protection: **Ex ec nC**

Marking: Ex ec nC IIC T4 Gc

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2020-07-10

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 Report:

[NL/KEM/ExTR08.0021/05](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Power Control Unit Type 9410 is used to distribute supply voltage to Power Rail Type 9400 on which it is mounted. The Control Unit is connected to an external power supply and optionally to a back-up power supply. The Control Unit detects errors from the modules mounted on the rail and provides a collective status alarm via a potential free contact.

Ambient temperature range -20 °C to +60 °C.

Electrical data

Power Supply (terminals 31, 32): $U = 21.6 \dots 26.6 \text{ Vdc} / 4 \text{ Adc}$.

Backup Power Supply (terminals 33, 34): $U = 21.6 \dots 26.6 \text{ Vdc} / 4 \text{ Adc}$.

Power Rail (rear contacts): $U = 21.6 \dots 26.6 \text{ Vdc}$ (with transient suppression to 40 V).

Power Rail StatusRelay (terminals 11, 12, 13): $U_{\text{max}} = 30 \text{ Vdc}$ or 32 Vac , $I_{\text{max}} = 2 \text{ A}$.

If the control Unit is installed outside the hazardous area, the following data for the relay contacts apply (unclassified installation):
 $U_{\text{max}} = 30 \text{ Vdc}$ or 250 Vac , $I_{\text{max}} = 2 \text{ A}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

The Power Control Unit Type 9410 and Power Rail Type 9400 shall be installed in a controlled environment with suitably reduced pollution, limited to pollution degree 2 or better.

The circuit shall be limited to overvoltage category I/II as defined in IEC 60664-1.

The Power Control Unit Type 9410 and Power Rail Type 9400 shall be installed in a suitable enclosure, in conformity with type of protection Ex n or Ex e and providing a degree of protection of at least IP54.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Assessed per IEC 60079-0 Ed. 7.0, IEC 60079-7 Ed. 5.1 and IEC 60079-15 Ed. 5.0