

# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

|                     |   |             |   |
|---------------------|---|-------------|---|
| Certificate No.:    | IECEX KEM 06.0039X  | Issue No: 5 | <u>Certificate history:</u><br>Issue No. 5 (2016-07-13)<br>Issue No. 4 (2012-01-30)<br>Issue No. 3 (2010-01-26)<br>Issue No. 2 (2009-05-04)<br>Issue No. 1 (2008-11-04)<br>Issue No. 0 (2008-08-15) |
| Status:             | <b>Current</b>  | Page 1 of 4 |   |
| Date of Issue:      | <b>2016-07-13</b>   |             |   |
| Applicant:          | <b>PR electronics A/S</b><br>Lerbakken 10<br>8410 Rønne<br><b>Denmark</b>   |             |   |
| Equipment:          | <b>Pulse Isolator Series 9202, Type 9202A.. and Type 9202B..</b>  |             |   |
| Optional accessory: | <i>Display module, Type 4501</i>  |             |   |
| Type of Protection: | <b>Ex i, Ex n</b>   |             |   |
| Marking:            | Ex nA nC IIC T4 Gc (Type 9202A.. and 9202B..)<br>[Ex ia Ga] IIC/IIB/IIA (Type 9202B..)<br>[Ex ia Da] IIIC (Type 9202B..)<br>[Ex ia Ma] I (Type 9202B..) |             |   |


Approved for issue on behalf of the IECEx  
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:  
(for printed version)

  
\_\_\_\_\_  
2016-07-13

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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

Additional Manufacturing  
location(s):

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 electrical apparatus 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:

|   |   |
|---|---|
| <b>IEC 60079-0 : 2011</b><br>Edition:6.0  | Explosive atmospheres - Part 0: General requirements                            |
| <b>IEC 60079-11 : 2011</b><br>Edition:6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"   |
| <b>IEC 60079-15 : 2010</b><br>Edition:4   | Explosive atmospheres - Part 15: Equipment protection by type of protection "n" |

*This Certificate **does not** indicate compliance with electrical 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/ExTR06.0039/02](#)  
[NL/KEM/ExTR06.0039/05](#)

[NL/KEM/ExTR06.0039/03](#)

[NL/KEM/ExTR06.0039/04](#)

### Quality Assessment Report:

[NL/DEK/QAR13.0017/02](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Pulse Isolators Type 9202A1., Type 9202A2, Type 9202A3, Type 9202B1., Type 9202B2, and Type 9202B3, for rail mounting, are 24V powered 1 channel (Type 9202B.A) or 2 channel (type 9202B.B) isolating barriers, interfacing "Namur" sensors or contacts located in an explosive atmosphere.

The Pulse Isolator is supplied via terminals at the front of the module, or via Power Rail Type 9400. Removable Display Module 4501 can be used for programming of the Pulse Isolator.

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

### Electrical data:

Refer to attachment.

### CONDITIONS OF CERTIFICATION: YES as shown below:

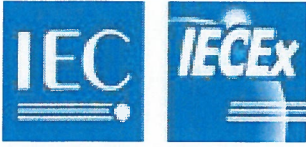
The Pulse Isolator shall be installed in a controlled environment with suitably reduced pollution, limited to pollution degree 2 or better.

The non-intrinsically safe circuits may only be connected to an overvoltage category I or II power source, as defined in IEC 60664-1.

If the Pulse Isolator is installed in an explosive atmosphere where equipment protection level Gc is required, the following conditions of certification additionally apply:

The Pulse Isolator shall be installed in an enclosure in type of protection Ex n or Ex e, providing a degree of protection of at least IP54. Cable entry devices and blanking elements shall fulfil the same requirements.

Removable Display Module 4501, when connected to the Pulse Isolator, may not be damaged and shall be free of dust and moisture.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

- update to IEC60079-15: 2010
- remove IEC60079-26
- Addition of Ex nA versions '9202A\*\*

**Annex:**

[Annex to IECEx KEM 06.0039 X, issue 5.pdf](#)