



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

Certificate No.: IECEx IBE 16.0029X Issue No: 1 Certificate history:
Issue No. 1 (2017-03-20)
Status: **Current** Page 1 of 4 Issue No. 0 (2016-11-22)
Date of Issue: **2017-03-20**
Applicant: **PHOENIX Contact GmbH & Co. KG**
Flachsmarktstraße 8
32825 Blomberg
Germany
Equipment: **Relay module type PLC-...-... /21**
Optional accessory:
Type of Protection: **Increased safety "e" in combination with type of protection "n"**
Marking:
Ex ec nC IIC T4 Gc
 $-40\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$ or $+60\text{ °C}$

Approved for issue on behalf of the IECEx
Certification Body:

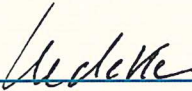
Prof. Dr. Tammo Redeker

Position:

Head of Certification Body

Signature:
(for printed version)

Date:



2017-03-20

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:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany





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Manufacturer: PHOENIX Contact GmbH & Co. KG
Flachsmarktstraße 8
32825 Blomberg
Germany

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:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4
IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*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:

DE/IBE/ExTR16.0023/00 DE/IBE/ExTR16.0023/01

Quality Assessment Report:

NL/DEK/QAR11.0009/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The relay modules PLC-...-...../21 Ex serve for the interface between control system and auxiliary equipment. The relays are the switching elements between control unit and the actuators or sensors which can be used universally.

There are different connection techniques - screw connection or push in connection and two different wideness - 6.2 mm and 14 mm.

Technical data:

ambient temperature: -40 °C up to +60 °C ($U \leq 120$ V)
-40 °C up to +55 °C ($U_{in} > 120$ V)
in

rated voltage: 12 V DC or 24 V DC
120 V AC / DC or 230 V AC or 220 V DC (depends on type)

nominal current contacts: 6 A or 2 x 6 A or 10 A

maximum voltage contacts: 250 V AC

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The relay modules have to be installed in a suitable and approved enclosure which fulfils the requirements of IEC 60079-15 or another type of protection, mentioned in IEC 60079-0, Clause 1.
- The relay modules shall only be installed in an area of not more than pollution degree 2 according to IEC 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals.
- Connection and disconnection may only be permitted in de-energized state.
- The service temperature of 90 °C may not be exceeded in assembled state.
- Clearance and creepage have to be met depending on the rated voltage.



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

Addition of type of protection "ec", hence the marking has been changed. The relays are designed further as sealed device.