



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 ULD 14.0003X	Issue No: 0	Certificate history: Issue No. 0 (2014-10-08)
Status:	Current	Page 1 of 4	
Date of Issue:	2014-10-08		
Applicant:	PHOENIX CONTACT GmbH & Co. KG Flachsmarktstrasse 8 32825 Blomberg Germany		
Electrical Apparatus: Optional accessory:	Safety Relay Modules Type PSR-PC50 Series		
Type of Protection:	nA nC		
Marking:	Ex nA nC IIC T4 Gc		

Approved for issue on behalf of the IECEx
Certification Body:

Jasmin Omerovic

Position:

Program Manager

Signature:
(for printed version)

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:

UL International Demko A/S
Borupvang 5A,
DK-2750 Ballerup
Denmark





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Manufacturer: PHOENIX CCONTACT GmbH & Co. KG
Flachmarktstrasse 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

*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:

[DK/ULD/ExTR14.0003/00](#)

Quality Assessment Report:

[NL/DEK/QAR11.0009/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Relay Modules Type PSR- PC50 Series are used for galvanic separation and performance adjustment of signals in the process industry / process engineering. It couples digital output signals of e.g. fail-safe control systems to the peripheral and guarantees safe switching in the event of a fault using relay contacts. The PSR- PC50 Series can sense a loss of load power supply with an error message on the "ERROR" LED. For this sensing an additional diagnostic control voltage must apply which turns the „DIAG-ON" LED on.

Nomenclature for type PSR- PC50 Series:

PSR- PC50- 1NO- 1DO - 24VDC -SC

- | | | | | | |
|------|-------------------------------------|-----|----|---|----|
| I | II | III | IV | V | VI |
| I. | PSR - | | | | |
| II. | PC50 - | | | | |
| III. | Output Configuration Relay Contacts | | | | |
| | 1NO – One normally open contact. | | | | |
| IV. | Output Configuration Relay Contacts | | | | |
| | 1DO – One Digital Output. | | | | |
| V. | Control Voltage | | | | |
| | 24Vdc – 24Vdc. | | | | |
| VI. | Terminal Configuration | | | | |
| | SC – Screw Terminal | | | | |
| | SP – Cage Clamp Terminal | | | | |

CONDITIONS OF CERTIFICATION: YES as shown below:

- The device must be used in no more than a pollution degree 2 environment as defined by EN/IEC 60664-1,
- The device should be installed in a housing (control or distributor box) that fulfils the requirements of EN 60079-15:2010 (IEC 60079-15:2010 4th Ed.) and at least IP54 (EN/IEC60529) degree of protection.
- The device shall be connected to supply circuits where the rated voltage cannot be exceeded by 140% caused by transient disturbances.



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EQUIPMENT (continued):

Temperature range The ambient temperature range is -20 ° C to +60 ° C (with limitations described below).

Electrical data

Input Power Supply :

Terminal X3 Pin: 3.3

Terminal X2 Pin: 2.3

U_{in} = 24 V d. c.,

I_{in} = 100 mA

Relay Output :

Terminal X4 Pins: 4.1, 4.2

Terminal X5, X6 Pins:5.1, 6

Terminal X5 Pins: 5.2, 5.3

Terminal X4, X6 Pins:4.3, 6.3

Relay Output	250 V a. c. / 24 V	250 V a. c. / 24 V
	d. c. 5 A	d. c. 0.5 A
	Resistive B300, R300	

A m b i e n t -20 °C to 40 °C -20 °C to 60 °C
Temperature

Terminal X3 Pin: 3.1

Terminal X2 Pin: 2.1

U_{in} = 0 V d. c.

Diagnostic Input:

Terminal X2 Pin: 2.2 U_H = + 24 V d. c.

Diagnostic Output:

Terminal X3 Pin: M1

U_n = + 23 V d. c.; 0.1 A



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