



# 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](http://www.iecex.com)

Certificate No.: **IECEx ULD 20.0032X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-11-30

Applicant: **Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 26  
Detmold 32758  
**Germany**

Equipment: **Safety Relay Modules, Open Type Programmable Controllers, Models SCS 24VDC P1SIL3ES LL and SCS 24VDC P1SIL3ES LL-T**

Optional accessory:

Type of Protection: **Increased Safety "ec", Sealed devices "nC"**

Marking: Ex ec nC IIC T4 Gc  
-40°C to +70°C (SCS 24VDC P1SIL3ES LL-T)  
-40°C to +50°C (SCS 24VDC P1SIL3ES LL)

Approved for issue on behalf of the IECEx  
Certification Body:

**Erin LaRocco**

Position:

**Staff Engineer**

Signature:  
(for printed version)

Date:

**2020-11-30**

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.
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Manufacturer: **Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 26  
Detmold 32758  
**Germany**

Additional manufacturing locations: **Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstrasse 16  
32758 Detmold  
**Germany**

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:

[DK/ULD/ExTR20.0032/00](#)

Quality Assessment Report:

[NL/DEK/QAR12.0052/07](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

These devices are open type safety relay modules suitable for switching safety related circuits, for high risk installations. They are mounted on a DIN rail and provide two channels. Typical applications include safety interlocks for burner management systems, over-fill controls for bulk liquid storage tanks and plant shut-down systems.

**Please see Annex for additional information.**

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0.
- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- When used in areas requiring Gc equipment, the devices must be wall mounted on a vertical or horizontal rail.

## **Annex:**

[Annex to IECEx ULD 20.0032X Issue 0\\_1.pdf](#)



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## TYPE DESIGNATION

Models: SCS 24VDC P1SIL3ES LL and SCS 24VDC P1SIL3ES LL-T.

The two models differ only in the size of their housing, the used relay types and the temperature rating.

## PARAMETERS RELATING TO THE SAFETY

Model	Main Input	Auxiliary Input / Output	Ambient Temperature range	Temp. Code
SCS 24VDC P1SIL3ES LL	Terminals "24V" and "0V": 24 VDC $\pm$ 20% P < 1 W	Terminals L, N, 13, 14: Max switching voltage 250Vac/30Vdc Max switching current 2.5 A (G.P.)  Terminal M14: Alarm output: Voltage drop, typ. 1.2Vdc, 100mA Res.	-40°C $\leq$ Ta $\leq$ +50°C	
SCS 24VDC P1SIL3ES LL-T		Terminals D21, D22 Diagnostic Output: 30Vdc, 100mA, Res.	-40°C $\leq$ Ta $\leq$ +70°C	T4



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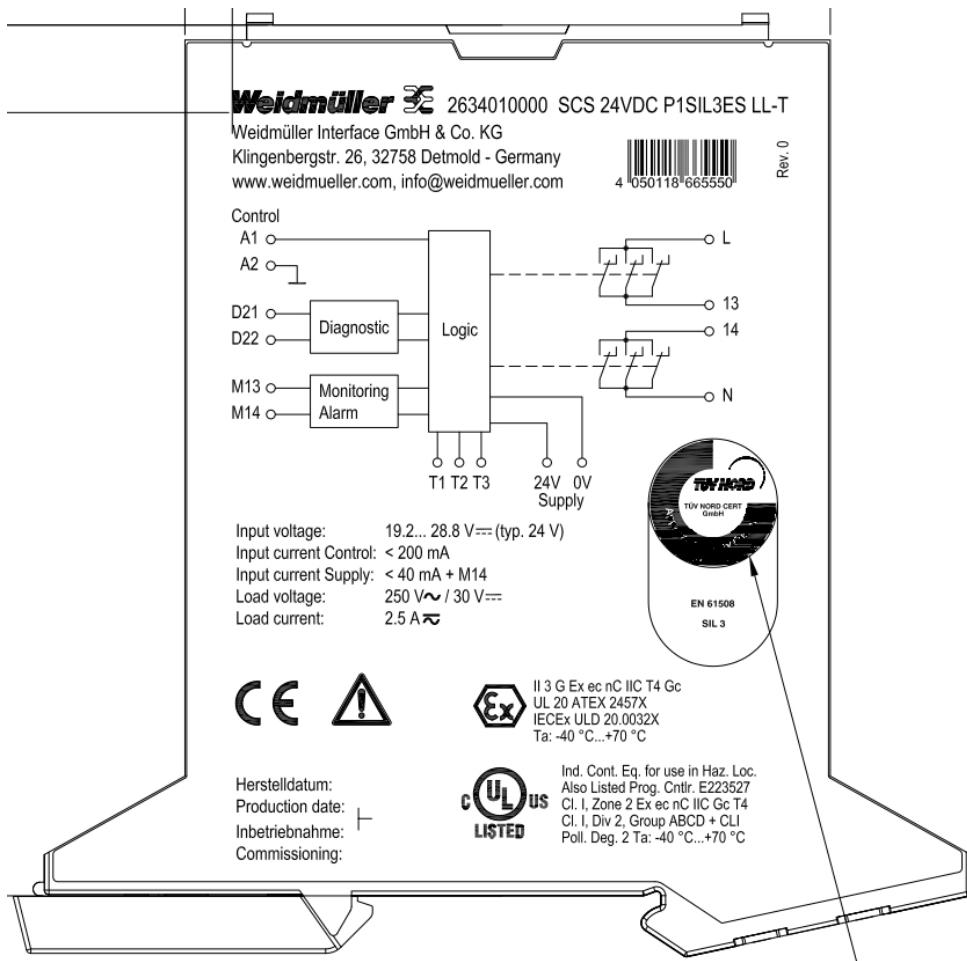
Issue No.: 0

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## MARKING

Marking has to be readable and indelible; it has to include the following indications:

Model SCS 24VDC P1SIL3ES LL-T:



The marking plate for model SCS 24VDC P1SIL3ES LL is identical with exception of the ambient temperature range: Ta: -40 °C ... +50 °C.

## ROUTINE EXAMINATIONS AND TESTS

A dielectric strength test shall be carried out according at 2.2 kV AC RMS, 50 Hz, maintained for at least 2s, ramp-up within 5 s, between Block 1 (terminals X1/X2/X3/X6) and Block 2 (terminals X4/X5). No flashover of clearances or breakdown of solid insulation shall occur during the test, nor shall the test device indicate failure.