



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 ULD 20.0026X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2023-07-24\)](#)
[Issue 0 \(2020-12-22\)](#)
Date of Issue: 2025-02-24
Applicant: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstraße 8
D-32825 Blomberg
Germany
Equipment: **Programmable Controllers, Types AXL F BK PN TPS XC, AXL F BK PB XC, AXL F BK ETH XC, AXL F BK EIP EF XC, AXL F DI16/4 XC 2F, AXL F DO16/3 XC 2F, AXL F DI8/1 DO8/1 XC 1H, AXL F AI4 I XC 1H, AXL F AI4 U XC 1H, AXL F AO4 XC 1H, AXL F RTD4 XC 1H, AXL F UTH8 XC 1F, AXL F RS UNI XC 1H, AXL F CNT2 INC2 XC 1F.**
Optional accessory:
Type of Protection: **Increased safety "ec"**
Marking: Ex ec IIC T4 Gc
-40°C to +60°C
For thermal limitations see Annex to CoC for Ratings.

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2025-02-24

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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:

UL Solutions (Demko)
Borupvang 5A
Ballerup DK-2750
Denmark





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Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstraße 8
D-32825 Blomberg
Germany

Manufacturing
locations: **Phoenix Contact GmbH & Co. KG**
Dringenauer Straße 30
Bad Pyrmont 31812
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 60079-7:2017 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 Reports:

DK/ULD/ExTR20.0026/00

DK/ULD/ExTR20.0026/01

DK/ULD/ExTR20.0026/02

Quality Assessment Report:

NL/DEK/QAR11.0009/10



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

These devices are open type electronic modules that can be combined to form a fully functional control system for IT-powered automation. Each module is equipped with AXIOLINE hinged connectors (designated FIBO...), used for supply, sensors, and actuators.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment is intended for installation in an area providing at least pollution degree 2 as defined by IEC 60664-1.
- The device shall be installed in an enclosure (control or distributor box) that fulfills a type of protection of IEC 60079-0 and at least IP54 (IEC 60529) degree of protection.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: AXL_BK_PB_LOGIC printed wiring board of AXL F BK PB XC device was revised with minor modifications.

Issue 2: Update to Manufacturing Location company name.

Annex:

[Annex to IECEx ULD 20.0026X Issue 2.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Type	Input		Output		Ambient temperature range
	Volt	Amp	Volt	Amp	
AXL F BK PN TPS XC	UL: 24 V DC	532mA	-	-	-40°C to +60°C
AXL F BK PB XC	24 Vdc	567 mA	-	-	-40°C to +60°C
AXL F BK ETH XC	24 Vdc	583 mA	-	-	-40°C to +60°C
AXL F BK EIP EF XC	24 Vdc	583 mA	-	-	-40°C to +60°C
AXL F DI16/4 XC 2F	UI: 24 Vdc UBUS: 5 Vdc Inputs 24 Vdc	4 A 60 mA 16 channels 2.4 mA (each)	-	-	-40°C to +60°C
AXL F DO16/3 XC 2F	-	-	Uo: 24 Vdc UBUS: 5 Vdc	8 A 60 mA)	-40°C to +60°C
AXL F DI8/1 DO8/1 XC 1H Digital	UIO: 24 Vdc UBUS: 5 Vdc Inputs 24 Vdc	4 A 60 mA 8 channels, 2.4 mA each	24 Vdc	8 channels 0.5 A each	-40°C to +60°C
AXL F AI4 I XC 1H	UA: 24 Vdc UBUS: 5 Vdc	38 mA 120 mA	-	-	-40°C to +60°C
AXL F AI4 U XC 1H	UA: 24 Vdc UBUS: 5 Vdc	38 mA 120 mA	-	-	-40°C to +60°C



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Type	Input		Output		Ambient temperature range
	Volt	Amp	Volt	Amp	
AXL F AO4 XC 1H	UA: 24 Vdc UBUS: 5 Vdc	110 mA 120 mA	24 Vdc	4 channels 20mA each @ 60°C	-40°C to +60°C
AXL F RTD4 XC 1H	UA: 24 Vdc UBUS: 5 Vdc	17 mA 140 mA	-	-	-40°C to +60°C
AXL F UTH8 XC 1F	UA: 24 Vdc UBUS: 5 Vdc	45 mA 115 mA	-	-	-40°C to +60°C
AXL F RS XC UNI 1H	Ubus: 5 Vdc	240 mA	-	-	-40°C to +60°C
AXL F CNT2 INC2 XC 1F	UI: 24 Vdc UBUS: 5 Vdc	2.5 A 120 mA	-	-	-40°C to +60°C



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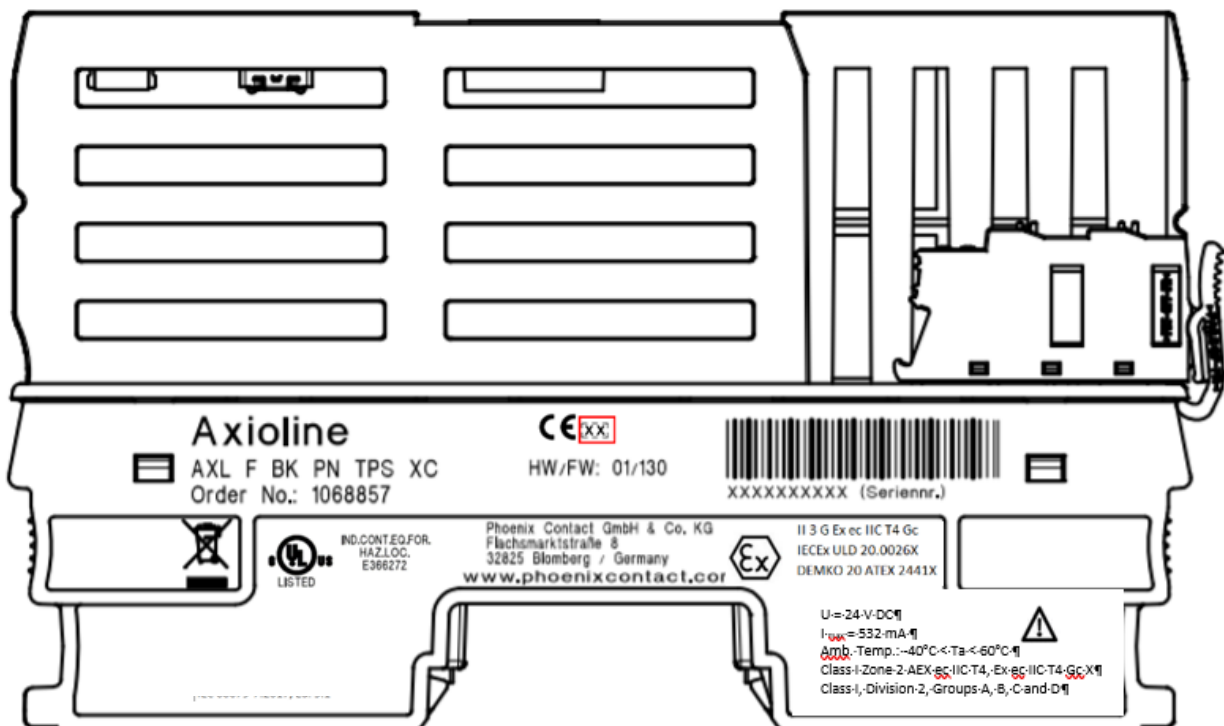
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MARKING

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

1. AXL F BK PN TPS XC

Ansicht X





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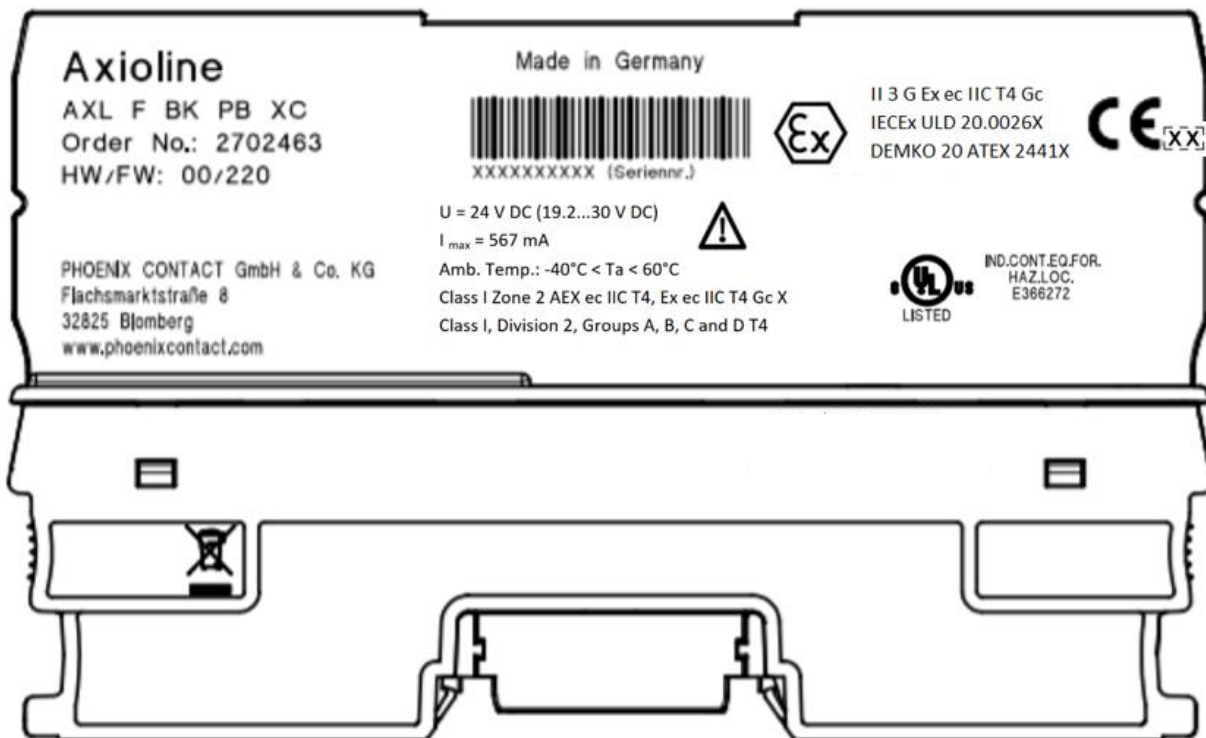
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2. AXL F BK PB XC

Ansicht X





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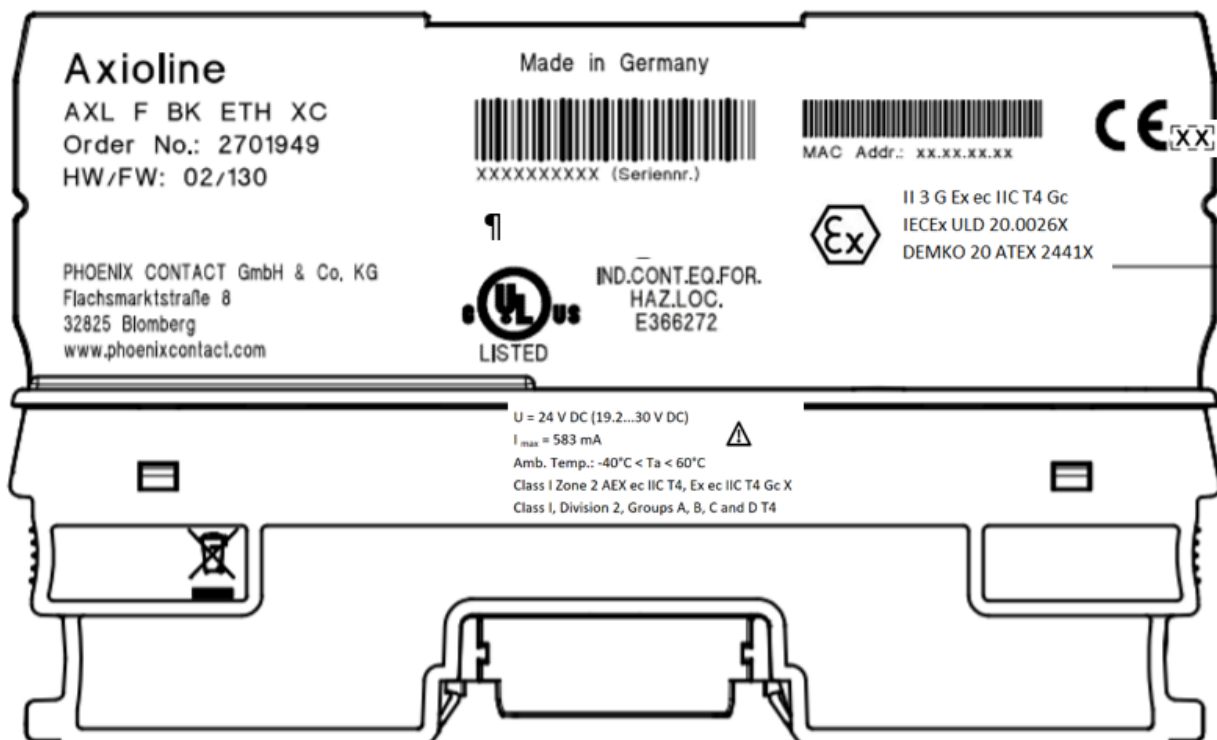
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3. AXL F BK ETH XC

Ansicht X





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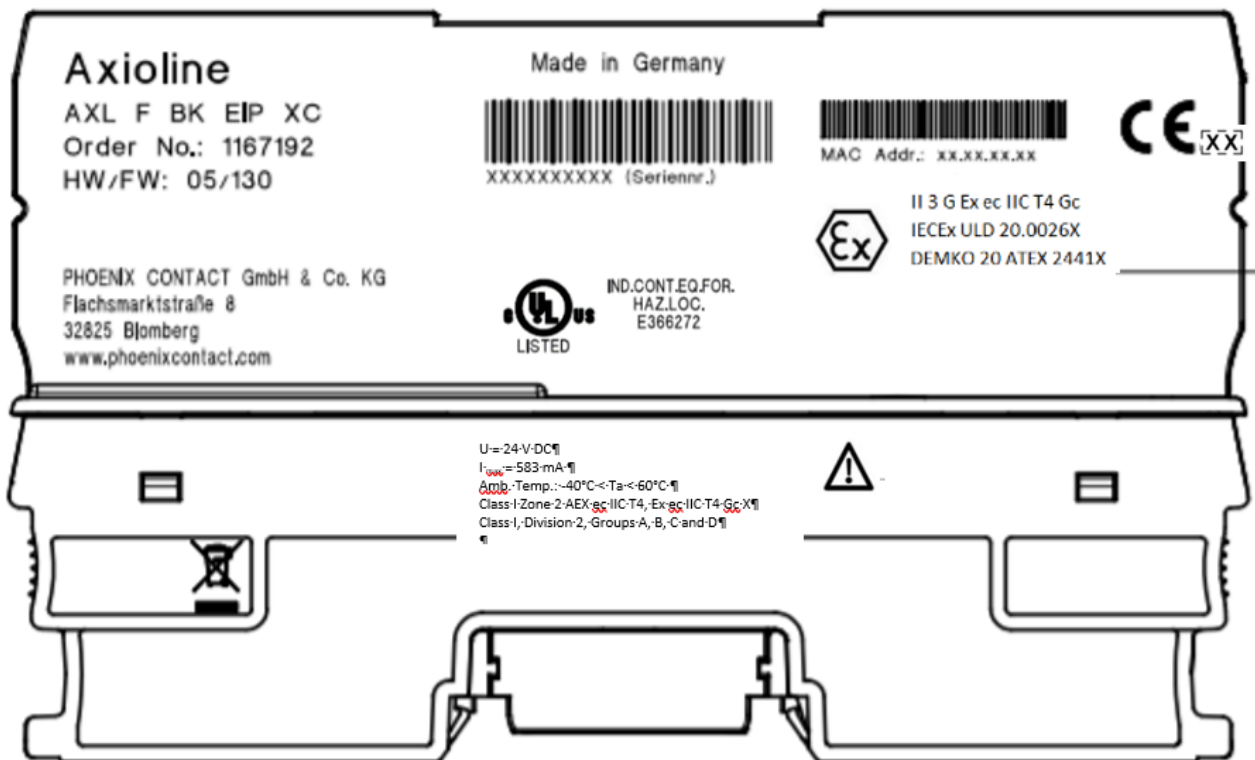
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4. AXL F BK EIP EF XC

Ansicht X





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Annex to Certificate No.:

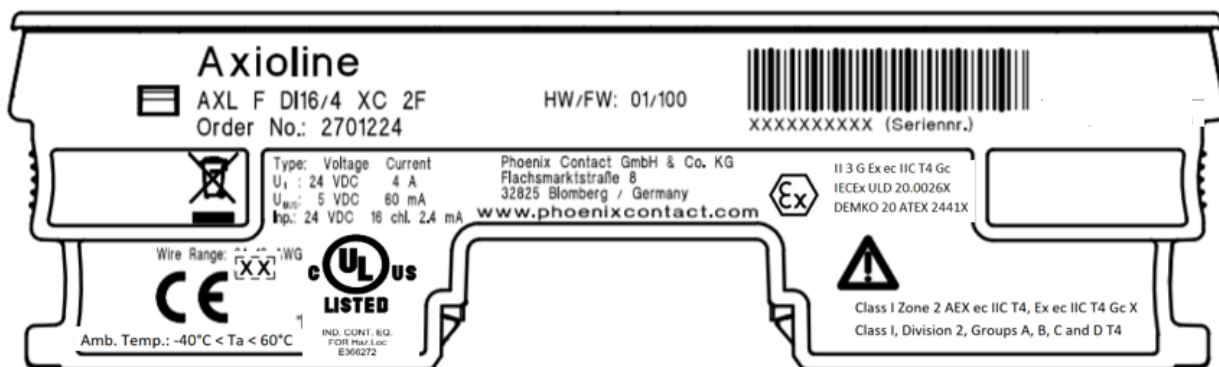
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5. AXL F DI16/4 XC 2F

Ansicht X





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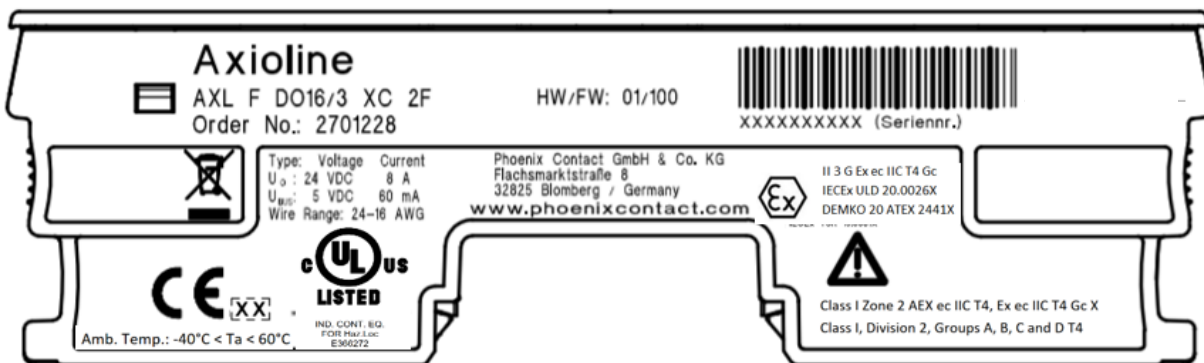
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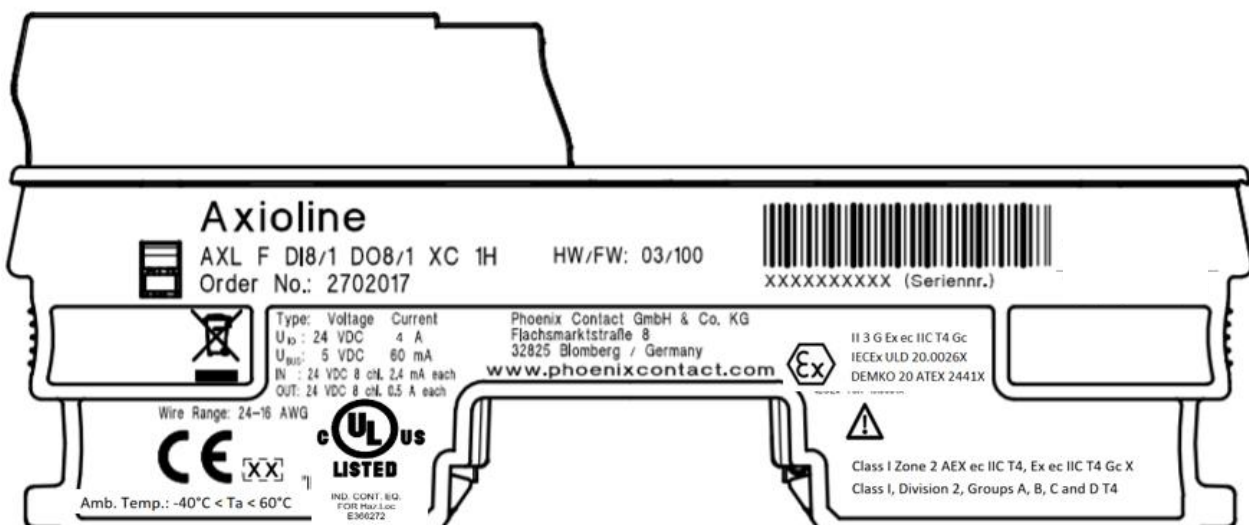
6. AXL F DO16/3 XC 2F

Ansicht X



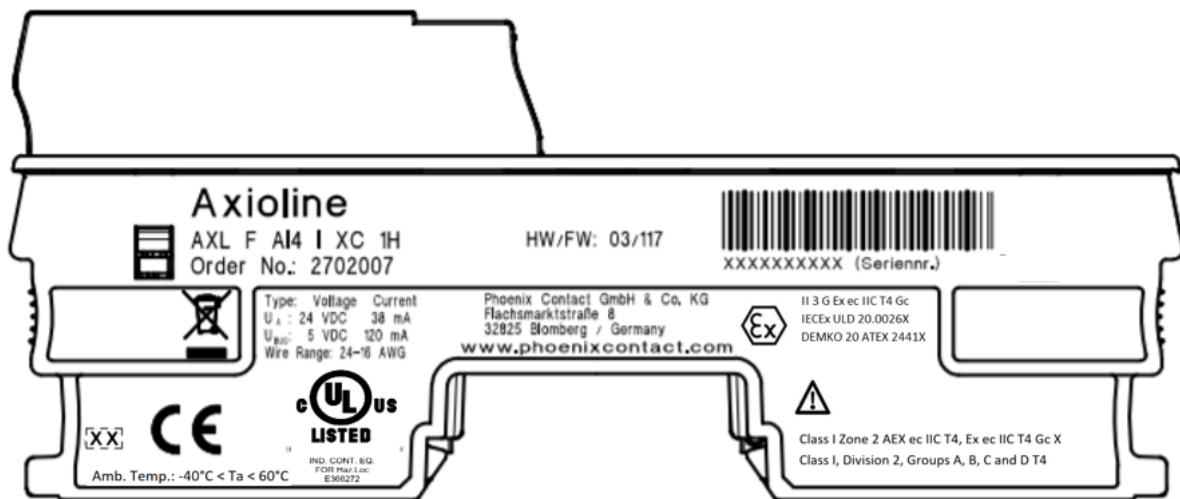
7. AXL F DI8/1 DO8/1 XC 1H

Ansicht X



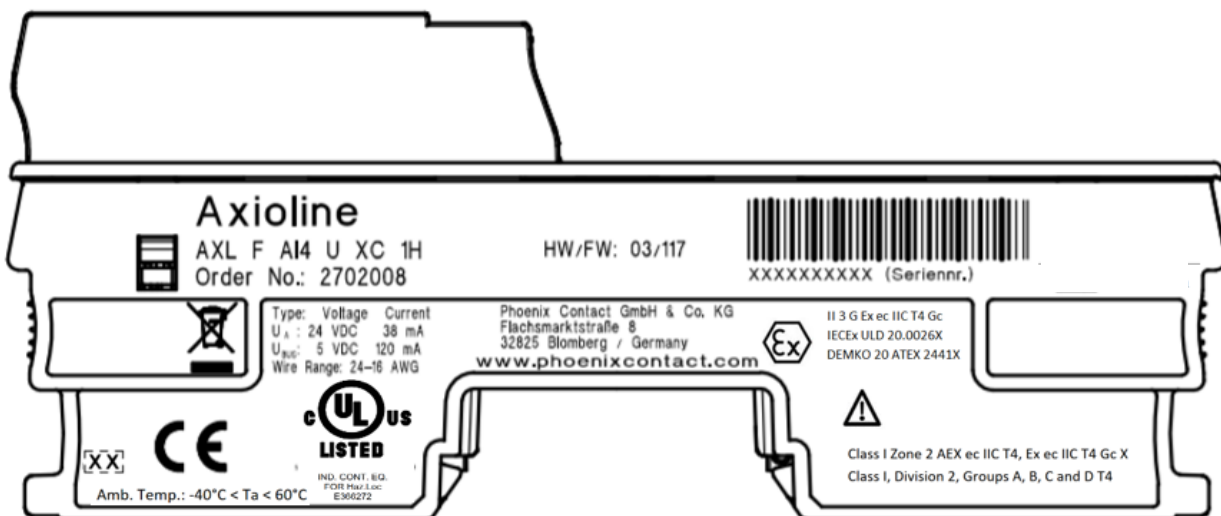
8. AXL F AI4 I XC 1H

Ansicht X



9. AXL F AI4 U XC 1H

Ansicht X





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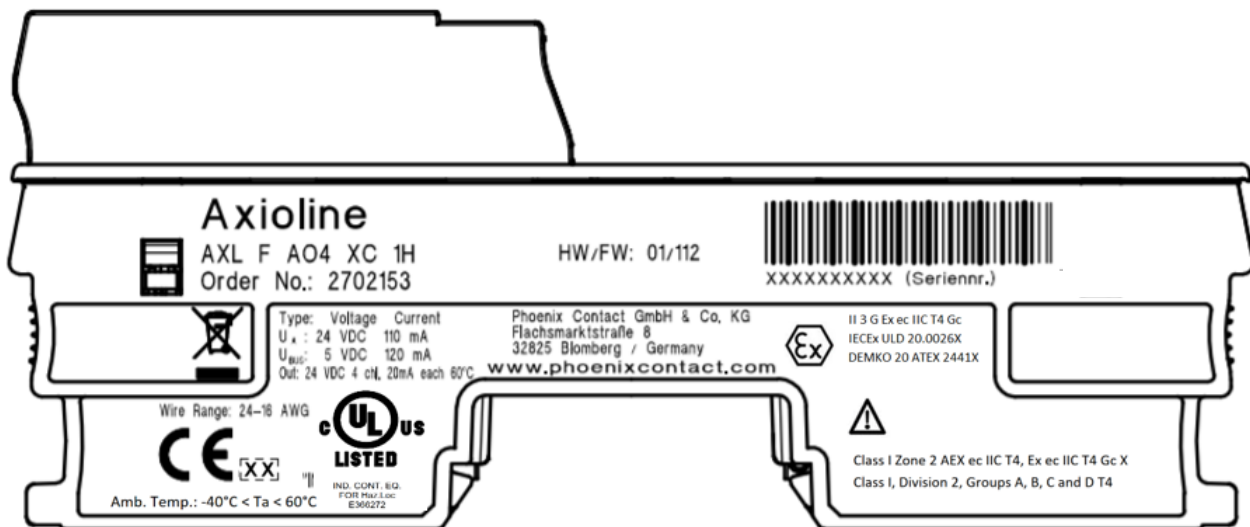
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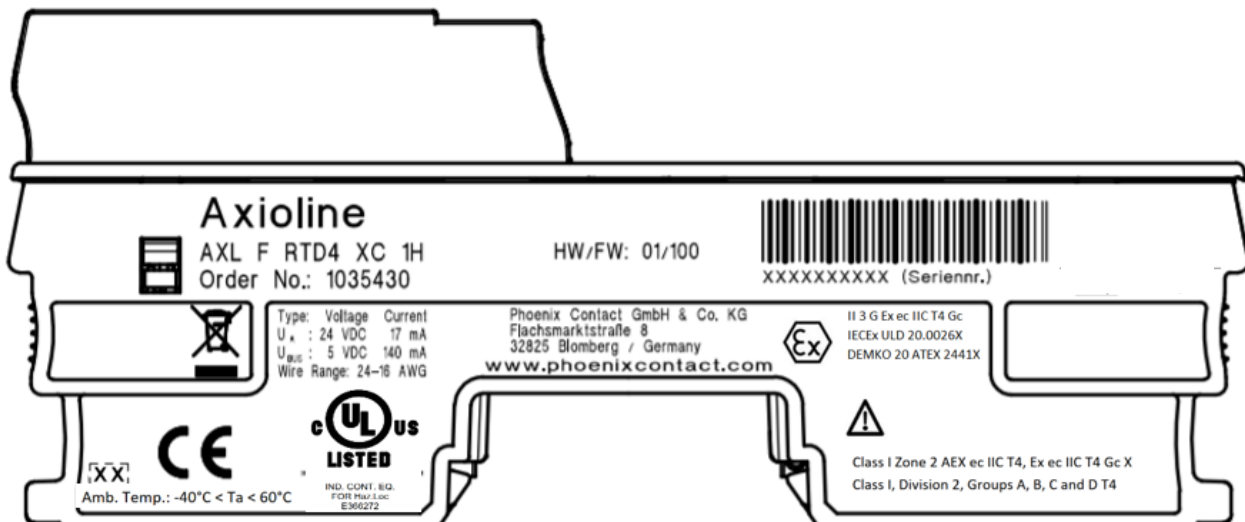
10. AXL F AO4 XC 1H

Ansicht X



11. AXL F RTD4 XC 1H

Ansicht X





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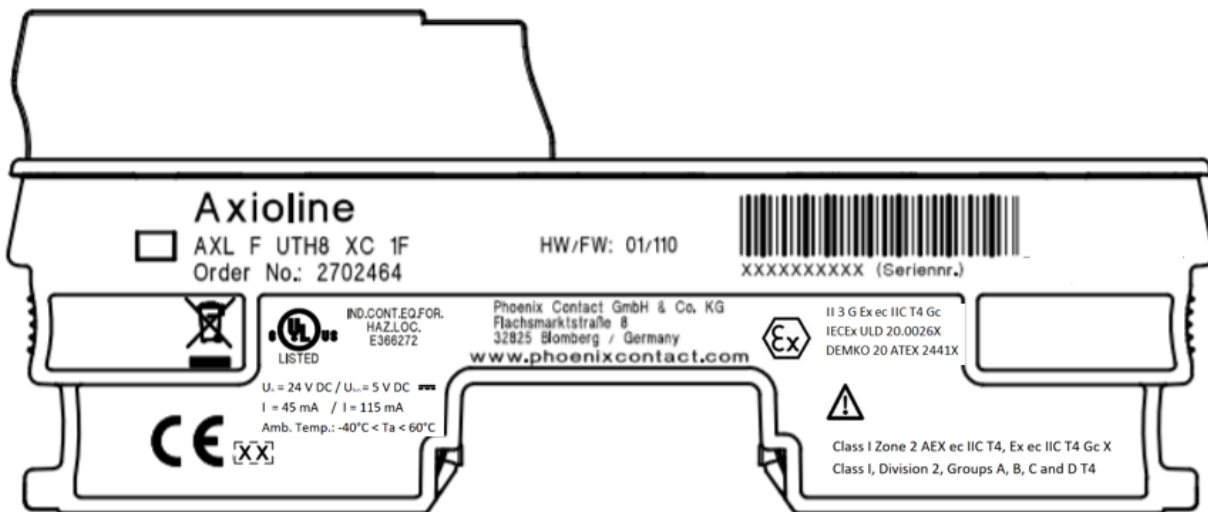
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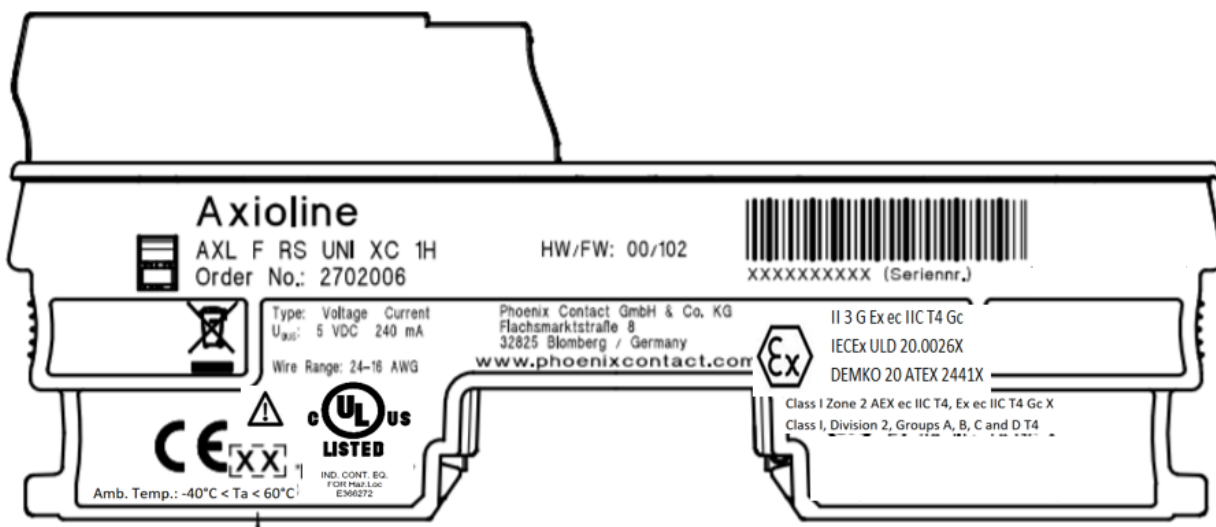
12. AXL F UTH8 XC 1F

Ansicht X



13. AXL F RS UNI XC 1H

Ansicht X





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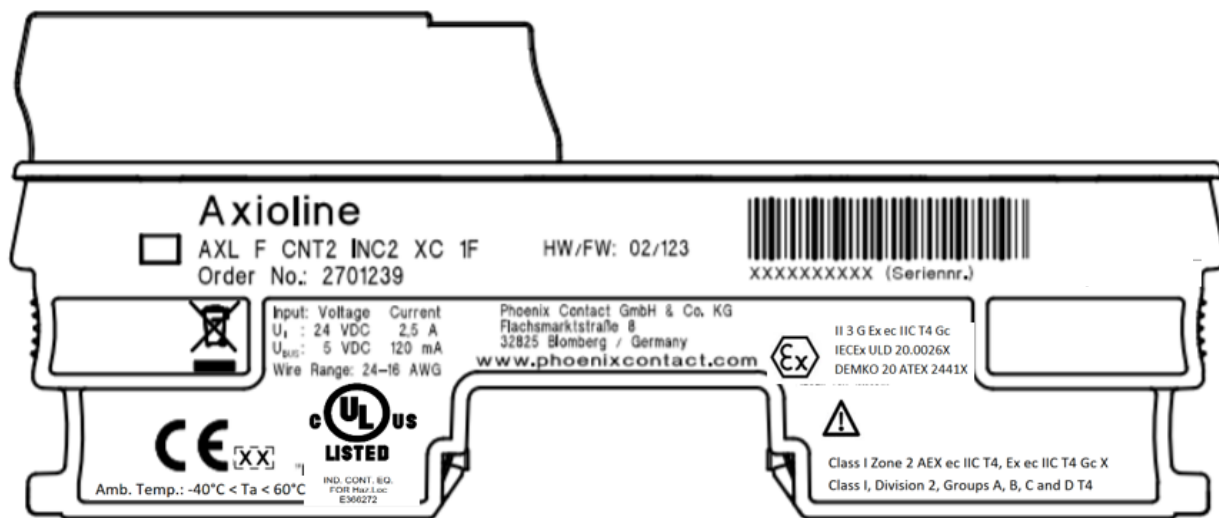
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14. AXL F CNT2 INC2 XC 1F

Ansicht X



ROUTINE EXAMINATIONS AND TESTS

Each piece of equipment defined above has to have successfully passed before delivery:

Between the separated circuits all suitable for 24Vdc working voltage and the terminals suitable for less than 90 V ac, with a test voltage derived from the applicable industrial standard or with 500 V ac +5% or 2100 V dc +5 % for 1 minute or with 1.2 times of the test voltage for ≥ 100 millisecond.

Because the creepage and clearance dimensions are rigidly controlled by tooling in the manufacturing process, the routine tests will be performed on a statistical basis in accordance with ISO 2859-1 with an acceptance quality limit (AQL) of 0.04.