



## Supply of Machinery (Safety) Regulations 2008 Type Examination Certificate

<b>Certificate number:</b>	<b>UK-MAC000151 i01</b>
<b>Certificate Holder and Manufacturer</b>	<b>PILZ GmbH</b> Felix-Wankel-Str. 2 73760 Ostfildern GERMANY
<b>Relevant Representative</b>	<b>PILZ Automation Ltd</b> Pilz House, Little Colliers Field, Corby Northants, NN18 8TJ United Kingdom
<b>Product(s)</b>	<b>Safety components</b> <b>Safety relay</b>
<b>Product Type</b>	<b>PNOZ X</b>
<b>Apparatus (inc Variants)</b>	The report PO91243C and the user documentation in the current valid revision are mandatory part of this certificate. The product complies with the following safety requirements only if the specifications documented in the currently valid revision of this report are met. The certified components are listed in report PO91244T in the current valid revision.

This Type Examination Certificate is issued according to Regulation 11 or 12 of Statutory Instrument 2008 No. 1597 relating to Machinery and in accordance with the TÜV SÜD Testing and Certification Regulations. It confirms that the Technical Documentation File demonstrates that the listed Annex-IV equipment complies with the Essential Health & Safety Requirements of the Regulations.

Signature: 

Date: 31/05/2023

On behalf of TUV SUD B A B T Unlimited

Valid from: 31/05/2023

(Signature) Guido Neumann

Expiry Date: 30/05/2028

TUV SUD B A B T Unlimited is appointed as an Approved Body Number 0168 in accordance with Statutory Instrument 2008 No. 1597 for Machinery.

The UKCA marking may be used on the equipment described above, subject to the equipment meeting the requirements of all applicable Regulations.

This Certificate remains valid providing any conditions of validity to the Certificate are complied with. For further details related to this certification please contact [babt@tuvsud.com](mailto:babt@tuvsud.com)



**Liste der Varianten  
der Sicherheitsschaltgeräte-Familie  
PNOZ X**

**List of variants  
of safety relay family**

**PNOZ X**

**Hersteller / Manufacturer:**

Pilz GmbH Co. KG  
Felix-Wankel-Straße 2  
D-73760 Ostfildern  
Germany

**Bericht-Nr. / Report no: PO91244T**

Revision 1.4

2021-07-12

**Prüfstelle / Test body:**

TÜV SÜD RAIL GmbH  
Rail Automation

**Zertifizierungsstelle / Certification body:**

TÜV SÜD Product Service GmbH  
Ridlerstraße 65  
D-80339 München



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**Änderungshistorie / Change history:**

Version	Name	Datum / Date	Änderungen / Changes
1.0	Mayer	2016-05-02	Erste Ausgabe / First release
1.1	Mayer	2017-12-20	Re-Zertifizierung / Re-certification Zusammenführung PNOZ X mit PNOZ X2/X5 / Merge of PNOZ X with PNOZ X2/X5
1.2	Mayer	2018-08-29	PNOZ XV3.1
1.3	Luther	2018-12-05	Add. PNOZ X4 White Box Option
1.4	Jens Luther	2021-07-12	Rezertifizierung / Re-certification

**Änderungen zur Vorgängerversion / Changes to the previous version:**

Kapitel Chapter	Type Device	Bemerkung / Remarks
All		Modifikationsbericht hinzugefügt / Modification report added



## 1 PNOZ X

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>D</sub>	SIL CL	PL	
<b>PNOZ X1</b> 24VAC/DC	774300 774901	7.2 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X1P</b> 24VDC	777100 787100	1.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2</b> 24VAC/DC	774303	8.3	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2P</b> 24VAC/DC	777303 787303	3.2 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2P</b> 48-240VAC/DC	777307 787307	3.2 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2C</b> 24VAC/DC	774304	4.4	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.1C</b> 24VAC/DC	774305	4.4	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.1</b> 24VAC/DC	774306	8.3	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.2</b> 24VAC/DC	774607	8.3	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.3P</b> 24VAC/DC	777304 787304	1.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.5P</b> 24VDC	777308 787308	1.1 1.1	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.7P</b> 24VAC/DC	777305 787305	2.3 2.3	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--



Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ X2.7P</b> 24-240VAC/DC	777306 787306	1.3 1.3	PO99243C V1.2 717515038 V1.2	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.8P</b> 24VAC/DC	777301 787301	2.3 2.3	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.8P</b> 24-240VAC/DC	777302 787302	1.3 1.3	PO99243C V1.2 717515038 V1.2	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X2.9P</b> 24VDC	777300 787300	1.1 1.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3</b> 24VAC 24VDC	774310	6.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3</b> 42VAC 24VDC	774311	6.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3</b> 48VAC 24VDC	774312	6.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3</b> 110VAC 24VDC	774314	6.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3</b> 115VAC 24VDC	774315	6.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3</b> 120VAC 24VDC	774316	6.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3</b> 230VAC 24VDC	774318	6.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3</b> 240VAC 24VDC	774319	6.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--



Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ X3.1</b> 230VAC 24VDC	774321	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3.1</b> 240VAC 24VDC	774322	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3.2</b> 230VAC 24VDC	774309	1.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3.10P</b> 24VAC/DC	777314 787314	3.3 1.3	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3P</b> 24VDC 24VAC	777310 787310	5.3 1.3	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X3P</b> 24-240VAC/DC	777313 787313	2.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X4</b> 24VDC	774730 774732	4.0	PO99243C V1.2 717515038 V1.2	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X4</b> 24VAC	774731	4.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X4</b> 110VAC	774734	4.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X4</b> 115VAC	774735	4.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X4</b> 120VAC	774736	4.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X4</b> 230VAC	774738	4.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--



Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ X4</b> 240VAC	774739	4.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X5</b> 12VDC	774326	2.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X5</b> 24VAC/DC	774325	4.1	PO99243C V1.1 717515038 V1.1	13-14 23-24	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X5.1</b> 24VDC	774324	3.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X5J</b> 24VDC	774323	3.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X6</b> 24VAC 24VDC	774729	1.4	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X6</b> 42VAC	774721	1.4	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X6</b> 110-120VAC	774725	1.4	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X6</b> 230-240VAC	774726	1.4	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X7</b> 24VAC/DC	774059	3.4	PO99243C V1.1 717515038 V1.1	13-14 23-24	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X7</b> 42VAC	774058	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X7</b> 48VAC	774049	1.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X7</b> 110VAC	774053	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	$2,31 \cdot 10^{-09}$	3	e	--



Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ X7</b> 115VAC	774054	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X7</b> 120VAC	774055	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X7</b> 230VAC	774056	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X7</b> 240VAC	774057	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X7.1</b> 24VAC/DC	774051	1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X7P</b> 24VAC/DC	777059 787059	1.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X7P</b> 110-120VAC	777053 787053	1.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X7P</b> 230-240VAC	777056 787056	1.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X8P</b> 24VDC	777760 787760	4.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X8P</b> 24VAC	777770 787770	1.0 4.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X8P</b> 110VAC	777764 787764	4.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X8P</b> 115VAC	777765 787765	4.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
<b>PNOZ X8P</b> 120VAC	777766 787766	4.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--





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				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ X8P</b> 230VAC	777768 787768	4.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X9</b> 24VAC 24VDC	774609	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X9</b> 42VAC 24VDC	774601	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X9</b> 100-120VAC 24VDC	774605	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X9</b> 200-230VAC 24VDC	774606	3.2	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--



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				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ X9P</b> 12VDC	777607	1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X9P</b> 24VDC	777609 787609	7.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X9P</b> 24-240VAC/DC 24VDC	777606 787606	8.0 2.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10</b> 24VDC	774709	4.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10</b> 24VAC	774700	4.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--



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				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>d</sub>	SIL CL	PL	
<b>PNOZ X10</b> 42VAC	774701	4.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10</b> 110-120VAC	774703	4.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10</b> 230-240VAC	774706	4.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10.1</b> 24VDC	774749	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10.1</b> 24VAC	774740	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10.1</b> 42VAC	774741	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--



Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ X10.1</b> 110-120VAC	774745	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10.1</b> 230-240VAC	774746	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X10.11P</b> 24VDC	777750 787750	1.3 1.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X11P</b> 24VAC 24VDC	777080 787080	1.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--
<b>PNOZ X11P</b> 110-120VAC 24VDC	777083 787083	1.0 1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54 63-64 73-74	$2,31 \cdot 10^{-09}$	3	e	--



Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ X11P</b> 230-240VAC 24VDC	777086	1.0	PO99243C V1.1	13-14	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
	787086	1.0	717515038 V1.1	23-24 33-34 43-44 53-54 63-64 73-74				
<b>PNOZ X13</b> 24VDC	774549	1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34 43-44 53-54	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--

## 2 PNOZ Ex

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte / Contacts	PFH <sub>b</sub>	SIL CL	PL	
<b>PNOZ Ex</b> 115VAC	774104	4.0	PO99243C V1.1	13-14	<b>3,50·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
	774106	1.1	717515038 V1.1	23-24 33-34				
<b>PNOZ Ex</b> 120VAC	774105	4.0	PO99243C V1.1	13-14	<b>3,50·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
	774107	1.1	717515038 V1.1	23-24 33-34				
<b>PNOZ Ex</b> 230VAC	774100	4.0	PO99243C V1.1	13-14	<b>3,50·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--
	774108	1.1	717515038 V1.1	23-24 33-34				
<b>PNOZ Ex-R</b> 230VAC	774099	1.0	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>3,50·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	--



### 3 PNOZ XV

Typ / Type	Sach-Nr. (Verz) Order No. (Delay)	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits												Bemerkung Remark
				Unverzögerte Kontakte Undelayed contacts				Verzögerte Kontakte Delayed contacts tv < 30s				Verzögerte Kontakte Delayed contacts tv > 30s				
				Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	
<b>PNOZ XHCV</b> 24VDC	774560	1.5	PO99243C V1.1 717515038 V1.1	--	--	--	--	37-38 47-48	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	--	--	--	--	--
<b>PNOZ XV1P</b> 24VDC	777601 (3 s) 777602 (30 s) 787601 (3 s) 787602 (30 s)	2.1 2.1 2.1 2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	37-38	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	37-38	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
<b>PNOZ XV2</b> 24VDC	774500 (30 s) 774502 (3 s) 774504 (0,5 s) 774505 (3 s) 774506 (10 s) 774508 (300 s)	4.3 4.3 4.3 4.3 4.3 4.3	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	37-38 47-48	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	37-38 47-48	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
<b>PNOZ XV2.1</b> 24-240VAC/DC	774550 (30 s) 774552 (3 s) 774554 (0,5 s) 774558 (300 s)	2.2 2.2 2.2 2.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>			37-38 47-48	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	37-38 47-48	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--



Typ / Type	Sach-Nr. (Verz) Order No. (Delay)	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits												Bemerkung Remark
				Unverzögerte Kontakte Undelayed contacts				Verzögerte Kontakte Delayed contacts tv < 30s				Verzögerte Kontakte Delayed contacts tv > 30s				
				Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	
<b>PNOZ XV2.1P</b> 24-240VAC/DC	777540 (30 s)	2.2	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	37-38 47-48	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	37-38 47-48	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	777542 (3 s)	2.2														
	777544 (0,5 s)	2.2														
	777545 (3 s)	2.2														
	777547 (10 s)	2.2														
	777548 (300 s)	2.2														
	787540 (30 s)	1.1														
	787542 (3 s)	1.1														
787548 (300 s)	1.1															
<b>PNOZ XV2P</b> 24VDC	777500 (30 s)	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	37-38 47-48	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	37-38 47-48	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	777502 (3 s)	2.1														
	777503 (1 s)	2.1														
	777504 (0,5 s)	2.1														
	787500 (30 s)	2.1														
	787502 (3 s)	2.1														
	787503 (1 s)	2.1														
787504 (0,5 s)	2.1															
<b>PNOZ X2.1VP</b> 24VDC	777600 (0,75 s)	2.2	PO99243C V1.1 717515038 V1.1					27-28 37-38	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>					--
	787600 (0,75 s)	1.1														
<b>PNOZ X2.4V</b> 24VDC	774517 (1s)	1.2	PO99243C V1.1 717515038 V1.1					27-28 37-38 47-48 57-58	<b>3,98·10<sup>-09</sup></b>	<b>2</b>	<b>d</b>					--



Typ / Type	Sach-Nr. (Verz) Order No. (Delay)	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits												Bemerkung Remark
				Unverzögerte Kontakte Undelayed contacts				Verzögerte Kontakte Delayed contacts tv < 30s				Verzögerte Kontakte Delayed contacts tv > 30s				
				Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	
<b>PNOZ XV3</b> 24VDC	774540 (30 s)	2.3	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	47-48 57-58	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	47-48 57-58	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	774542 (3 s)	2.3														
	774544 (0,5 s)	2.3														
	774545 (3 s)	2.3														
	774547 (10 s)	2.3														
774548 (300 s)	2.3															
<b>PNOZ XV3</b> 24VAC	774541 (300 s)	1.3	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	47-48 57-58	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	47-48 57-58	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
<b>PNOZ XV3P</b> 24VDC	777510 (30 s)	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	47-48 57-58	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	47-48 57-58	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	777512 (3 s)	2.1														
	777514 (0,5 s)	2.1														
	777515 (3 s)	2.1														
	777517 (10 s)	2.1														
	777518 (300 s)	2.1														
	787510 (30 s)	2.1														
	787512 (3 s)	2.1														
787518 (300 s)	2.1															
<b>PNOZ XV3.1</b> 24VDC	774530 (30 s)	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	57-58 67-68	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	57-58 67-68	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	774532 (3 s)	2.1														
	774534 (0,5 s)	2.1														
	774538 (300 s)	2.1														
<b>PNOZ XV3.1</b> 24-240VAC/DC	774610 (30 s)	2.2	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	57-58 67-68	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	57-58 67-68	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	774612 (3 s)	2.2														
	774618 (300 s)	2.2														





Typ / Type	Sach-Nr. (Verz) Order No. (Delay)	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits												Bemerkung Remark
				Unverzögerte Kontakte Undelayed contacts				Verzögerte Kontakte Delayed contacts tv < 30s				Verzögerte Kontakte Delayed contacts tv > 30s				
				Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	Kontakt Contact	PFH <sub>D</sub>	SIL CL	PL	
<b>PNOZ XV3.1P</b> 24VDC	777520 (30 s)	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	57-58 67-68	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	57-58 67-68	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	777522 (3 s)	2.1														
	777525 (3 s)	2.1														
	787520 (30 s)	1.0														
	787522 (3 s)	1.0														
<b>PNOZ XV3.1P</b> 24-240VAC/DC	777530 (30 s)	2.2	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	57-58 67-68	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	57-58 67-68	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	777532 (3 s)	2.2														
	777538 (300 s)	2.2														
	787530 (30 s)	1.1														
	787532 (3 s)	1.1														
<b>PNOZ XV3.3P</b> 24VDC	777511 (30 s)	2.1	PO99243C V1.1 717515038 V1.1	13-14 23-24 33-34	<b>2,31·10<sup>-09</sup></b>	<b>3</b>	<b>e</b>	47-48 57-58	<b>2,64·10<sup>-09</sup></b>	<b>3</b>	<b>d</b>	47-48 57-58	<b>2,87·10<sup>-09</sup></b>	<b>1</b>	<b>c</b>	--
	787511 (30 s)	2.1														





#### 4 Anmerkung / Comment

##### 4.1 Sachnummer / Order No

Kann durch Kombinationen von Zahlen und/oder Buchstaben im Bereich 00... ZZ ergänzt sein. Can be supplemented by a combination of numbers and/or letters character in a range of 00... ZZ
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##### 4.2 Sicherheitskennwerte / Safety characteristics:

<b>SIL CL:</b>	Safety Integrity Level entsprechend EN / IEC 62061 / Safety Integrity Level according EN / IEC 62061
<b>PL:</b>	Performance Level entsprechend EN ISO 13849-1 / Performance Level according EN ISO 13849-1.

	<b>Freigabe Prüfstelle: Release by Test Body:</b>	<b>Freigabe Zertifizierstelle: Release by Certification Body:</b>
Datum: Date:	2021-07-12	2021-07-12
Unterschrift: Signature:	 Digitally signed by Jens Luther Date: 2021.07.12 11:10:53 +02'00'	 Digital signiert von Claudio Gregorio Datum: 2021.07.12 15:33:04 +02'00'