



EU-Type Examination Certificate

No. M6R 020132 0322 Rev. 00

Manufacturer: Pilz GmbH & Co. KG
Felix-Wankel-Str. 2
73760 Ostfildern
GERMANY

Product: Safety components
Contact expansions module

Model(s): PZE

Parameters: Power supply: 24V - 48V DC
24V - 240V AC
24V - 240V AC/DC
Protection class: IP20

The report 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 PO88943T in the current valid revision.

This EU-type examination certificate is issued based on Machinery Regulation (EU) 2023/1230 Article 25 (2) (a) respectively Article 25 (3) (b) and confirms compliance with the applicable essential health and safety requirements for the above mentioned Annex I (Part A or Part B) machinery or related product. The test basis are the referenced (harmonized) standards as well as common and technical specifications (if applicable).

This EU-type examination certificate refers exclusively to the machinery or related product presented to TÜV SÜD Group for testing and certification and its technical documentation.

For further details please see: www.tuvsud.com/ps-cert

Test report no.: PO88942C

Valid until: 2031-07-13

Date, 2026-07-21

(Matthias Ramold)

Page 1 of 2

TÜV SÜD Product Service GmbH is Notified Body according to Machinery Regulation (EU) 2023/1230 relating to products within the scope of this regulation, notified by publication on NANDO Information System of the EC with identification NB 0123. Start of legal „content based“ certificate validity: 2027-01-20. CE marking followed by the identification number “0123” shall be affixed by the manufacturer or the manufacturer’s authorised representative to the machinery or related product prior to place the product on market.



EU-Type Examination Certificate

No. M6R 020132 0322 Rev. 00

Tested according to harmonised standard(s):
-/-

Common specification(s):
-/-

Other technical specifications:

 EN ISO 13849-1:2023 (up to Cat. 4 PL e)
 EN 60947-5-1:2017
 EN IEC 62061:2021
 IEC 61508-1:2010
 IEC 61508-2:2010
 IEC 61511-1:2016/AMD1:2017



EC-Type Examination Certificate

No. M6A 020132 0264 Rev. 03

Holder of Certificate:

Pilz GmbH & Co. KG

Felix-Wankel-Str. 2
73760 Ostfildern
GERMANY

Product:

Safety components

Contact expansions module

Model(s):

PZE

Parameters:

Power supply: 24V - 48V DC
24V - 240V AC
24V - 240V AC/DC
Protection class: IP20

The report 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 PO88943T in the current valid revision.

This EC Type Examination Certificate is issued according to Article 12(3) b or 12(4) a of Council Directive 2006/42/EC relating to machinery. It confirms that the listed Annex-IV equipment complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.:

PO88942C

Valid until: 2031-07-13

Date, 2026-07-21

(Matthias Ramold)

Page 1 of 1

TÜV SÜD Product Service GmbH is Notified Body according to Council Directive 2006/42/EC relating to machinery, notified by publication in the Official Journal of the EC with identification No.0123.

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®



CERTIFICATE

No. Z10 020132 0263 Rev. 03

Holder of Certificate: **Pilz GmbH & Co. KG**
Felix-Wankel-Str. 2
73760 Ostfildern
GERMANY

Certification Mark:



Product: **Safety components**
Contact expansions module

Model(s): **PZE**

Parameters: Power supply: 24V - 48V DC
24V - 240V AC
24V - 240V AC/DC
Protection class: IP20

The report 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 PO88943T in the current valid revision.

Tested according to: EN ISO 13849-1:2023 (up to Cat. 4 PL e)
EN 60947-5-1:2017
EN IEC 62061:2021
IEC 61508-1:2010
IEC 61508-2:2010
IEC 61511-1:2016/AMD1:2017

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: PO88942C

Valid until: 2031-07-13

Date, 2026-07-21

(Matthias Ramold)



Liste der Varianten der Sicherheitsschaltgeräte-Familie PZE

**List of variants
of safety relay family
PZE**

Hersteller / Manufacturer:

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

Bericht-Nr. / Report no:

PO88943T

Revision 1.7

2026-07-20

Prüfstelle / Test body:

TÜV SÜD RAIL GmbH
Rail – Automation
Westendstraße 199
80686 München

Inhalt / content:

Seite / Page

1.	PZE	3
1.1	PZE (2006/42/EC, EU 2023/1230)	3
1.2	PZE (2006/42/EC)	4
2.	PZE X.....	5
2.1	PZE X (2006/42/EC, EU 2023/1230)	5
2.2	PZE X (2006/42/EC).....	8
3.	PZA.....	9
3.1	PZA (2006/42/EC, EU 2023/1230).....	9
3.2	PZA (2006/42/EC)	10
4.	PZW.....	11
4.1	PZW (2006/42/EC, EU 2023/1230).....	11
4.2	PZW (2006/42/EC)	12
5.	Anmerkung / Comment.....	13
5.1	Sicherheitskennwerte / Safety characteristics:	13

Änderungshistorie / Change history:

Version	Name	Datum / Date	Änderungen / Changes
1.7	W. Mayer	2026-07-20	Machinery regulation Update EN ISO 13849-1 2015: -> 2023 PO107284T V1.0

Änderungen zur Vorgängerversion / Changes to the previous version:

Kapitel Chapter	Type Device	Bemerkung / Remarks
All	-	New modification PO107284T V1.0

1. PZE

1.1 PZE (2006/42/EC, EU 2023/1230)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG und ab dem 20.01.2027 konform zur Maschinenverordnung EU 2023/1230.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027 and from Jan 20th, 2027 compliant with the machinery regulation EU 2023/1230.

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
PZE 9 24VDC	774150	6.2	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	13-14 23-24 33-34 43-44 53-54 63-64 73-74 83-84	2,31·10 ⁻⁰⁹	3	e	--
PZE 9 110-120VAC	774143	6.2						--
PZE 9 230-240VAC	774148	6.2						--
PZE 9P 24VDC	777140 787140	5.1 1.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	13-14 23-24 33-34 43-44 53-54 63-64 73-74 83-84	2,31·10 ⁻⁰⁹	3	e	--
PZE 9P 24-240VAC/DC	777148 787148	6.0 2.0						--

1.2 PZE (2006/42/EC)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th 2027.

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
PZE 9 24VAC	774140	6.2	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	13-14 23-24 33-34	2,31·10 ⁻⁰⁹	3	e	
PZE 9 42VAC	774141	6.2		43-44 53-54 63-64				
PZE 9 48VAC	774142	6.2		73-74 83-84				

2. PZE X

2.1 PZE X (2006/42/EC, EU 2023/1230)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG und ab dem 20.01.2027 konform zur Maschinenverordnung EU 2023/1230.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027 and from Jan 20th, 2027 compliant with the machinery regulation EU 2023/1230.

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
PZE X4 24VDC	774585 774900	8.1 1.0	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	13-14 23-24 33-34 43-44	2,31·10 ⁻⁰⁹	3	e	--
PZE X4V 24VDC	774580 774581 774582 774583 774586	7.1 7.1 7.1 7.1 7.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18 27-28 37-38 47-48	2,48·10 ⁻⁰⁹	2	d	--
PZE X4V8 24VDC	774584	3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18 27-28 37-38 47-48	2,31·10 ⁻⁰⁹	3	e	--
PZE X4P 24VDC	777585 787585	3.1 2.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	13-14 23-24 33-34 43-44	2,31·10 ⁻⁰⁹	3	e	--

2. PZE X

2.1 PZE X (2006/42/EC, EU 2023/1230)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG und ab dem 20.01.2027 konform zur Maschinenverordnung EU 2023/1230.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027 and from Jan 20th, 2027 compliant with the machinery regulation EU 2023/1230.

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
PZE X4.1P 24VDC	777587 787587	1.2 1.2	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	13-14 23-24 33-34 43-44	$2,31 \cdot 10^{-09}$	3	e	--
PZE X4.1P 24-240VAC/DC	777588 787588	1.4 1.4	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	13-14 23-24 33-34 43-44	$2,31 \cdot 10^{-09}$	3	e	--
PZE X4VP4 24VDC	777586 787586	1.1 1.0	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18 27-28 37-38 47-48	$2,48 \cdot 10^{-09}$	2	d	--
PZE X4VP8 24VDC	777584 787584	1.1 1.0	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18 27-28 37-38 47-48	$2,48 \cdot 10^{-09}$	2	d	--

2. PZE X

2.1 PZE X (2006/42/EC, EU 2023/1230)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG und ab dem 20.01.2027 konform zur Maschinenverordnung EU 2023/1230.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027 and from Jan 20th, 2027 compliant with the machinery regulation EU 2023/1230.

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
PZE X4VP 24VDC	777580	3.1	PO88942C V1.6					
	777581	3.1	717509890 V1.3	17-18				
	777582	3.1	PO96730T V1.0	27-28				
	777583	3.1	PO102148T.V1.0	37-38	2,48·10 ⁻⁰⁹	2	d	
	787580	2.1	PO107284T V1.0	47-48				
	787581	2.1						
	787583	2.1						
PZE X5 24VDC	774595	1.4	PO88942C V1.6	13-14				
			717509890 V1.3	23-24				
			PO96730T V1.0	33-34	2,31·10 ⁻⁰⁹	3	e	--
			PO102148T.V1.0	43-44				
			PO107284T V1.0	53-54				
PZE X5V 48VDC	774590	1.4	PO88942C V1.6	17-18				
			717509890 V1.3	27-28				
			PO96730T V1.0	37-38	2,48·10 ⁻⁰⁹	2	d	--
			PO102148T.V1.0	47-48				
			PO107284T V1.0	57-58				
PZE X5P 24VDC	777150	2.0	PO88942C V1.6	13-14				
			717509890 V1.3	23-24				
			PO96730T V1.0	33-34	2,31·10 ⁻⁰⁹	3	e	
			PO102148T.V1.0	43-44				
			PO107284T V1.0	53-54				

2.2 PZE X (2006/42/EC)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027.

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
PZE X4VP 24VDC	787582	2.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18 27-28 37-38 47-48	$2,48 \cdot 10^{-09}$	2	d	
PZE X5V 24VDC	774592 774593	1.4 1.4	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18 27-28 37-38 47-48 57-58	$2,48 \cdot 10^{-09}$	2	d	
PZE X5P 24VDC	787150	1.0	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	13-14 23-24 33-34 43-44 53-54	$2,31 \cdot 10^{-09}$	3	e	

3. PZA

3.1 PZA (2006/42/EC, EU 2023/1230)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG und ab dem 20.01.2027 konform zur Maschinenverordnung EU 2023/1230.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027 and from Jan 20th, 2027 compliant with the machinery regulation EU 2023/1230.

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits								Bemerkung / Remark
				Verzögerte Kontakte - tv < 30s Delayed contacts - tv < 30s				Verzögerte Kontakte - tv > 30s Delayed contacts - tv > 30s				
				Safety Output	PFH _D	max. SIL	PL	Safety Output	PFH _D	max. SIL	PL	
PZA 24VDC	774041 774030 774029 774028	3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18	2,64·10 ⁻⁰⁹	3	d	17-18	2,87·10 ⁻⁰⁹	1	c	
PZA 230VAC	774040 774026	3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18	2,64·10 ⁻⁰⁹	3	d	17-18	2,87·10 ⁻⁰⁹	1	c	

3.2 PZA (2006/42/EC)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits								Bemerkung / Remark
				Verzögerte Kontakte - tv < 30s Delayed contacts - tv < 30s				Verzögerte Kontakte - tv > 30s Delayed contacts - tv > 30s				
				Safety Output	PFH _D	max. SIL	PL	Safety Output	PFH _D	max. SIL	PL	
PZA 24VAC	774031 774020	3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18	2,64·10 ⁻⁰⁹	3	d	17-18	2,87·10 ⁻⁰⁹	1	c	
PZA 110-120VAC	774035 774023	3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18	2,64·10 ⁻⁰⁹	3	d	17-18	2,87·10 ⁻⁰⁹	1	c	
PZA 230VAC	774038	3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18	2,64·10 ⁻⁰⁹	3	d	17-18	2,87·10 ⁻⁰⁹	1	c	

4. PZW

4.1 PZW (2006/42/EC, EU 2023/1230)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG und ab dem 20.01.2027 konform zur Maschinenverordnung EU 2023/1230.

Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027 and from Jan 20th, 2027 compliant with the machinery regulation EU 2023/1230.

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits								Bemerkung / Remark
				Verzögerte Kontakte - tv < 30s Delayed contacts - tv < 30s				Verzögerte Kontakte - tv > 30s Delayed contacts - tv > 30s				
				Safety Output	PFH _D	max. SIL	PL	Safety Output	PFH _D	max. SIL	PL	
PZW 24VDC	774042 774019	3.1 3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18	2,64·10 ⁻⁰⁹	3	d	17-18	2,87·10 ⁻⁰⁹	1	c	--

4.2 PZW (2006/42/EC)

Folgende Artikel sind bis zum 19.01.2027 konform zur Maschinenrichtlinie 2006/42/EG.
Following articles are compliant with the machinery directive 2006/42/EC until Jan. 19th, 2027

Typ / Type	Sach-Nr. Oder No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits								Bemerkung / Remark
				Verzögerte Kontakte - tv < 30s Delayed contacts - tv < 30s				Verzögerte Kontakte - tv > 30s Delayed contacts - tv > 30s				
				Safety Output	PFH _D	max. SIL	PL	Safety Output	PFH _D	max. SIL	PL	
PZW 110-120VAC	774044 774015	3.1 3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18	2,64·10 ⁻⁰⁹	3	d	17-18	2,87·10 ⁻⁰⁹	1	c	
PZW 230VAC	774048 774017	3.1 3.1	PO88942C V1.6 717509890 V1.3 PO96730T V1.0 PO102148T.V1.0 PO107284T V1.0	17-18	2,64·10 ⁻⁰⁹	3	d	17-18	2,87·10 ⁻⁰⁹	1	c	

5. Anmerkung / Comment

5.1 Sicherheitskennwerte / Safety characteristics:

T_{Mission}:	Für eine maximale Gebrauchsdauer von 20 Jahren gemäß EN ISO 13849-1. Der Wert gilt auch als Intervall der Wiederholungsprüfungen entsprechend EN 61508-6 und IEC 61511 und als Intervall für den Proof-Test und die Gebrauchsdauer nach EN 62061 For a maximum Mission Time of 20 years according to EN ISO 13849-1.
Cat.:	Maximal erreichbarer Gebrauchskategorie nach EN ISO 13849-1. Maximum achievable usage Category according to EN ISO 13849-1.
PL:	Maximal erreichbarer Leistungsgrad entsprechend EN 13849-1 Maximum obtainable Performance Level according EN 13849-1.
max. SIL:	Maximal erreichbarer Sicherheitsintegritätsstufe entsprechend EN / IEC 62061 Maximum obtainable Safety Integrity Level according EN / IEC 62061
SIL:	Maximal erreichbarer Sicherheitsintegritätsstufe entsprechend EN 61508-6 und IEC 61511 Maximum obtainable Safety Integrity Level according EN 61508-6 und IEC 61511
PFD:	Wahrscheinlichkeit eines gefährliche Versagens bei Anforderung der Sicherheitsfunktion Probability of Failure on Demand.
PFH_D:	Wahrscheinlichkeit eines gefahrbringenden Ausfalls pro Stunde Probability of a dangerous Failure per Hour
B10_D	Lebensdauer kennwert gemäß EN ISO 13849-1. Die maximale Anzahl von Schaltzyklen darf innerhalb der festgelegten Gebrauchsdauer T _{Mission} nicht überschritten werden. Service life characteristic according to EN ISO 13849-1. The maximum number of switching cycles should not be exceeded within the period of use T _{Mission} .

Reference	Description
EN ISO 13849-1/ ISO 13849-1: 2023 (up to Cat. 4, PL e)	Safety of machinery — Safety-related parts of control systems — Part 1: General principles for design
EN IEC 62061:2021 (up to max. SIL 3)	Safety of machinery - Functional safety of safety-related control systems
IEC 61508-1:2010 (up to SIL 3)	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 1: General requirements
IEC 61508-2:2010 (up to SIL 3)	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 2: Requirements for electrical/electronic/ programmable electronic safety-related systems
IEC 61511-1:2016	Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and software requirements

	Freigabe Prüfstelle: Release by Test Body:	Freigabe Zertifizierstelle: Release by Certification Body:
Unterschrift: Signature:	 Wolfgang Mayer 2026.07.20 16:21:18 +02'00'	 Matthias Ramold 2026.07.20 18:05:13 +02'00'