



Product Service

EC-Type Examination Certificate

No. M6A 020132 0240 Rev. 02

Holder of Certificate: **Pilz GmbH & Co. KG**

Felix-Wankel-Str. 2
73760 Ostfildern
GERMANY

Product: **Safety components
Safety Relay**

Model(s): **PNOZcompact**

Parameters: Power supply: 24 V 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 PO84127T 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.: **PO96614C**

Valid until: 2028-11-01

Date, 2023-11-03

(Thomas Kreten)

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®



Product Service

CERTIFICATE

No. Z10 020132 0239 Rev. 02

Holder of Certificate: **Pilz GmbH & Co. KG**

Felix-Wankel-Str. 2
73760 Ostfildern
GERMANY

Certification Mark:



Product: **Safety components
Safety Relay**

Model(s): **PNOZcompact**

Parameters: Power supply: 24 V 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 PO84127T in the current valid revision.

Tested according to: EN ISO 13849-1:2015 (up to Cat.4 PL e)
EN IEC 62061:2021 (maximum SIL 3)
EN 60947-5-1:2017

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 and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: **PO96614C**
Valid until: 2028-11-01

Date, 2023-11-03


(Thomas Kreten)



**Liste der Varianten
des Sicherheitsschaltgeräts
PNOZ compact**

**List of variants
of safety relay family
PNOZ compact**

Hersteller / Manufacturer:

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

Bericht-Nr. / Report no: PO84127T

Revision 1.5
2024-03-15

Prüfstelle / Test body:

TÜV SÜD RAIL GmbH
Rail Automation

Zertifizierungsstelle / Certification body:

TÜV SÜD Product Service GmbH
Ridlerstraße 65
D-80339 München



Inhalt / content:

Seite / Page

1	PNOZ c1	3
2	PNOZ c2	3
3	Fußnote / Footnote	3
3.1	Sicherheitskennwerte/Safety characteristics:.....	3

Änderungshistorie / Change history:

Version	Name	Datum / Date	Änderungen / Changes
1.0	Wolfgang Mayer	2013-11-14	Erste Ausgabe / First release
1.1	Wolfgang Mayer	2017-02-03	Rezertifizierung / Re-certification Zusammenfassung PNOZ c1 & c2 / Merge PNOZ c1 & c2
1.2	Jens Luther	2021-06-10	Rezertifizierung / Re-certification add. Modification Höhenzulassung PNOZc2
1.5	Jens Luther	2024-03-15	add. PNOZc1 HT
1.4	Jens Luther	2023-11-03	Rezertifizierung / Re-certification
1.5	Wolfgang Mayer	2024-03-15	PNOZ c1 / PNOZ c1 1-kanaliger Betrieb/1-channel operation mode

Änderungen zur Vorgängerversion / Changes to the previous version:

Kapitel Chapter	Type Device	Bemerkung / Remarks
1	PNOZ c1	Version 1.3, PO102611T
1	PNOZ c1 HT	Version 2.0

1 PNOZ c1

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte Contacts	PFH _D	Max. SIL	PL	
PNOZ c1	710001	1.3	PO84126T V1.1 PO96725T V1.1 PO101662T V1.1 PO102611T V1.0	13-14 23-24 33-34	2,31·10 ⁻⁰⁹	3	e	--
PNOZ c1 HT	710900	2.0	PO84126T V1.1 PO98171T V1.0 PO101662T V1.1	13-14 23-24 33-34	2,31·10 ⁻⁰⁹	3	e	--

2 PNOZ c2

Typ / Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Unverzögerte Kontakte Undelayed contacts				
				Kontakte Contacts	PFH _D	Max. SIL	PL	
PNOZ c2	710002	1.1	PO85416T V1.0 PO84126T V1.1 PO96725T V1.1 PO101662T V1.1	13-14 23-24	2,31·10 ⁻⁰⁹	3	e	Einsatz bis 5000m über NN For use up to 5000m over sea level

3 Fußnote / Footnote



3.1 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
PF_D:	Wahrscheinlichkeit eines gefährliche Versagens bei Anforderung der Sicherheitsfunktion Probability of Failure on Demand.
PFH_D:	Wahrscheinlichkeit eines gefährbringenden Ausfalls pro Stunde Probability of a dangerous Failure per Hour



B10d	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 $T_{Mission}$.
-------------	---

EN ISO 13849-1:2015	Sicherheit von Maschinen - Sicherheitsbezogene Teile von Steuerungen - Teil 1: Allgemeine Gestaltungsleitsätze Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
EN IEC 62061:2021	Sicherheit von Maschinen - Funktionale Sicherheit sicherheitsbezogener elektrischer, elektronischer und programmierbarer elektronischer Steuerungssysteme Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems
EN60947-5-1:2017	Niederspannungsschaltgeräte Teil 5-1: Steuergeräte und Schaltelemente - Elektromechanische Steuergeräte Low-voltage switchgear and controlgear Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices

	Freigabe Prüfstelle: Release by Test Body:	Freigabe Zertifizierstelle: Release by Certification Body:
Unterschrift: Signature:	 Wolfgang Mayer 2024.03.15 07:27:04 +01'00'	 Guido Neumann 2024.03.15 08:42:09 +01'00'