



EU-Type Examination Certificate

No. M6R 020132 0320 Rev. 00

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

Product: **Safety components**
Safety switch

Model(s): **Two-hand control devices**

Parameters: Synchronus Actuation: < 500ms
Voltage Tolerance: -15 ... +10%
Temperatur Range: -25 ... +55°C

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 PO83643T 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.: PO107279C

Valid until: 2031-07-27

Date, 2026-07-28

(Matthias Ramold)

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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 0320 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 ISO 13851:2019
EN IEC 62061:2021
IEC 61508-1:2010
IEC 61508-2:2010
IEC 61511-1:2016

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EC-Type Examination Certificate

No. M6A 020132 0273 Rev. 03

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

Product: **Safety components**
Safety switch

Model(s): **Two-hand control devices**

Parameters: Synchronus Actuation: < 500ms
Voltage Tolerance: -15 ... +10%
Temperatur Range: -25 ... +55°C

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 PO83643T 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.: PO107279C

Valid until: 2031-07-26

Date, 2026-07-28

(Matthias Ramold)

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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

TUV®

CERTIFICADO

인증서

CERTIFICATO

認証書

CERTIFICATE

认证证书

ZERTIFIKAT



CERTIFICATE

No. Z10 020132 0274 Rev. 03

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

Certification Mark:



Product: **Safety components**
Safety switch

Model(s): **Two-hand control devices**

Parameters: Synchronus Actuation: < 500ms
Voltage Tolerance: -15 ... +10%
Temperatur Range: -25 ... +55°C

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 PO83643T in the current valid revision.

Tested according to: EN ISO 13849-1:2023 (up to Cat. 4 PL e)
EN ISO 13851:2019
EN IEC 62061:2021
IEC 61508-1:2010
IEC 61508-2:2010
IEC 61511-1:2016

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.: PO107279C

Valid until: 2031-07-27

Date, 2026-07-28

(Matthias Ramold)



Liste der Varianten der Sicherheitsschaltgeräte-Familie Zweihandschaltungen

**List of variants
of safety relay family
Two-Hand Control Devices**

Hersteller / Manufacturer:

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

Bericht-Nr. / Report no: PO83643T

Revision 1.6
2026-07-27

Prüfstelle / Test body:

TÜV SÜD RAIL GmbH
Rail Automation

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Änderungshistorie / Change history:

Version	Name	Datum / Date	Änderungen / Changes
1.0	Jens Luther	2012-12-11	Erste Ausgabe / First release
1.1	Wolfgang Mayer	2018-07-06	Rezertifizierung / re-certification
1.2	Jens Luther	2021-07-13	Rezertifizierung / re-certification
1.3	Jens Luther	2023-11-14	Rezertifizierung / re-certification
1.4	Jens Luther	2023-11-29	Formale Korrektur / Formal correction
1.6	N. Paredes	2025-07-10	New modification PO105048T v1.0
1.6	R.Schneider	2026-07-27	Maschinenverordnung/Machinery Regulation Update EN ISO 13849-1:20215 → 2023 Report on Certificate PO107279C v1.0

Änderungen zur Vorgängerversion / Changes to the previous version:

Kapitel Chapter	Type Device	Bemerkung / Remarks
All	-	New modification PO105048T v1.0
All	-	New modification PO107272T v1.0



1. Type IIIA according to EN ISO 13851, compliant with MD 2006/42/EC and MR 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	
P1HZ X1	774360 (24V DC)	1.3	PO107279C v1.0 PO83642T V1.4 717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T 1.0	13-14 23-24	8,53·10 ⁻⁰⁸	1	c	--



2. Typ IIIC according to EN ISO 13851, compliant with MD 2006/42/EC and MR 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	
P2HZ X1	774330 (24VAC)	4.2	PO107279C V1.0	13-14 23-24 33-34	3,01·10⁻⁰⁹	3	e	--
	774340 (24VDC)	4.2	PO83642T V1.4					
	774434 (110VAC)	4.2	717515893 V1.0					
	774435 (115VAC)	4.2	PO96722T V1.0					
	774438 (230VAC)	4.2	PO101667T V1.0 PO105048T V1.0					



Typ Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
P2HZ X1P	777340 (24VDC)	4.2	PO107279C V1.0	13-14 23-24 33-34	3,01·10⁻⁰⁹	3	e	--
	777438 (230VAC)	4.2	PO83642T V1.4					
	787340 (24VDC)	1.1	717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T 1.0					
P2HZ X3	774350 (24VDC)	3.4	PO107279C V1.0 PO83642T V1.4 717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T 1.0	13-14 23-24	3,01·10⁻⁰⁹	3	e	--
P2HZ X4P	777354 (24VAC)	3.3	PO107279C v1.0	13-14 23-24 33-34	3,01·10⁻⁰⁹	3	e	--
	777355 (24VDC)	3.3	PO83642T V1.4					
	787355 (24VDC)	1.1	717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T V1.0					



3. Typ IIIC according to EN ISO 13851, compliant with MD 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	
P2HZ X1	774331 (42VAC)	4.2	PO107279C v1.0 PO83642T V1.4 717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T 1.0	13-14 23-24 33-34	3,01·10 ⁻⁰⁹	3	e	--
	774332 (48VAC)	4.2						
	774341 (26VDC)	4.2						
	774436 (120VAC)	4.2						
	774439 (240VAC)	4.2						
	777330 (24VAC)	4.2						



Typ Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
P2HZ X1P	777331 (42VAC)	4.2	PO107279C v1.0 PO83642T V1.4 717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T 1.0	13-14 23-24 33-34	3,01·10⁻⁰⁹	3	e	--
	777332 (48VAC)	4.2						
	777434 (110VAC)	4.2						
	777435 (115VAC)	4.2						
	777436 (120VAC)	4.2						
	777439 (240VAC)	4.2						
	787330 (24VAC)	1.1						
	787331 (42VAC)	1.1						
	787332 (48VAC)	1.1						
	787434 (110VAC)	1.1						
	787435 (115VAC)	1.1						
	787436 (120VAC)	1.1						
	787438 (230VAC)	1.1						
	787439 (240VAC)	1.1						



Typ Type	Sach-Nr. Order No.	Version	Internal Test-Report	Sicherheitsrelevante Strompfade Safety related circuits				Bemerkung / Remark
				Safety Output	PFH _D	max. SIL	PL	
P2HZ X1.10P	787341 (24VDC)	1.2	PO107279C v1.0	13-14 23-24 33-34	3,01·10⁻⁰⁹	3	e	--
	777341 (24VDC)	1.1	PO83642T V1.4 717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T 1.0					
P2HZ X2	774345 (24VAC)	2.1	PO107279C v1.0 PO83642T V1.4 717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T 1.0	13-14 23-24	3,01·10⁻⁰⁹	3	e	--
P2HZ X4P	787354 (24VAC)	1.1	PO107279C v1.0 PO83642T V1.4 717515893 V1.0 PO96722T V1.0 PO101667T V1.0 PO105048T 1.0	13-14 23-24 33-34	3,01·10⁻⁰⁹	3	e	--

4. Anmerkung / Comment

4.1 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 to EN 13849-1.
max. SIL:	Maximal erreichbarer Sicherheitsintegritätsstufe entsprechend EN / IEC 62061 Maximum obtainable Safety Integrity Level according to EN / IEC 62061
SIL:	Maximal erreichbarer Sicherheitsintegritätsstufe entsprechend EN 61508-6 und IEC 61511 Maximum obtainable Safety Integrity Level according to EN 61508-6 und IEC 61511
PFD:	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} .
MD 2006/42/EC	Machinery Directive 2006/42/EC Gültig bis einschließlich 19.01.2027
MR 2023/1230	Machinery Regulation (EU) 2023/1230 Gültig ab 20.01.2027

Reference	Description
ISO 13849-1:2023 EN 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
EN ISO 13851:2019	Safety of machinery – Two-hand control devices – Principles for design and selection

Reference	Description
2023/1230 Valid from 2027-01-20	REGULATION (EU) 2023/1230 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 14 June 2023 on machinery and repealing Directive 2006/42/EC of the European Parliament and of the Council and Council Directive 73/361/EEC

	Freigabe Prüfstelle: Release by Test Body:	Freigabe Zertifizierstelle: Release by Certification Body:
Unterschrift: Signature:	 Rebeka Schneider 2026.07.27 09:20:09 +02'00'	 Matthias Ramold 2026.07.28 13:57:28 +02'00'