



Product Service

EC-Type Examination Certificate

No. M6A 020132 0279 Rev. 00

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

Felix-Wankel-Str. 2
73760 Ostfildern
GERMANY

Product: **Automation Equipment, Safety Related Components**

Model(s): **Operating-mode Switch "PIT mode-fusion"**

Parameters: Power supply: 24VDC -15% +10%
Safety output: 24VDC, 20mA
Protection class: up to IP54 (installed)

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 PO94001T 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. See also notes overleaf.

Test report no.: PO93844T

Valid until: 2024-05-19

Date, 2019-05-20

(Christian Dirmeier)

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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



Product Service

CERTIFICATE

No. Z10 020132 0278 Rev. 00

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

Factory(ies): 020132

Certification Mark:



Product: **Automation Equipment, Safety Related Components**

Model(s): **Operating-mode Switch "PIT mode-fusion"**

Parameters: 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 PO94001T in the current valid revision.

Power supply: 24VDC -15% +10%
Safety output: 24VDC, 20mA
Protection class: up to IP54 (installed)

Tested according to:
EN 61508-1:2010
EN 61508-2:2010 (SIL 2)
EN 61508-3:2010 (SIL 2)
EN ISO 13849-1:2015 (Cat 3, PI d)
EN ISO 23125:2015
EN 12417:2001/AC:2010
EN ISO 16090-1:2018
EN 60204-1:2006/AC:2010

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. See also notes overleaf.

Test report no.: PO93844T
Valid until: 2024-05-19

Date, 2019-05-22 (Christian Dirmeier)

ZERTIFIKAT • CERTIFICATE • CERTIFICADO • CERTIFIKAT • 認證證書



Liste der Varianten der Betriebsarten-Wahlschalter PITmode fusion

List of variants of
Operating-mode Switch
PITmode fusion

Hersteller / Manufacturer:

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

Bericht-Nr. / Report no: PO94001T

Revision 1.3
2022-04-05

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	Jens Luther	2019-05-20	Erste Ausgabe / First release
1.1	Dr. Julian Wolf	2021-01-25	Report PO96275T (FW 1.1) eingefügt / Included Report PO96275T (FW 1.1)
1.2	Dr. Julian Wolf	2021-09-06	PITreader S base unit eingefügt / Added PITreader S base unit Report PO96865T eingefügt / Included Report PO96865T
1.3	Dr. Julian Wolf	2022-04-05	Abschnitt 2.1 angepasst/ Section 2.1 adapted Abschnitte 2.2, 3.3 und 3.4 hinzugefügt / Sections 2.2, 3.3 and 3.4 added



1 Sichere Auswerteeinheit / Safe Evaluation Unit:

Typ / Type (Sachnummer/Order No.) Beschreibung / Description Version Interner Bericht / Internal Report	Beschreibung / Description			Version	Interner Bericht / Internal Report
PIT m4SEU (402250)	PITmode Sichere Auswerteeinheit PITmode Safe Evaluation Unit			1.0	PO93844T PO96275T
Sicherheitstechnische Kenndaten der Sicherheitsausgänge Safety-related characteristics of the safety outputs					
PL	Category	SIL CL	PFH _D [1/h]	PFD	T _{mission} [Year]
d	3	2	6,49·10⁻⁰⁹	3,99·10⁻⁰⁴	20

2 Authentifizierungssysteme / Authentication Systems:

2.1 Authentifizierungssystem PITreader Key / Authentication Systems PITreader Key:

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PITreader base unit (402255)	Authentifizierungssystem via RFID Key Reader, Basiseinheit Authentication system via RFID key Reader, base unit	ab / from 01	PO93844T PO96865T
PITreader S base unit (402256)	Authentifizierungssystem via RFID Key Reader, Basiseinheit S Authentication system via RFID key Reader, base unit S	ab / from 02	PO96865T
PITreader key adapter h (402308xxx)	PITreader Schlüsselaufnahme horizontal + 1x Mutter PITreader key adapter horizontal + 1x nut	1.0	PO93844T
Hinweis / Remark			
Sachnummer: „xxx“ = Variante der Bedruckung oder Grundfarbe des Gehäuses Order No: „xxx“ = Variant of printing or basic color of the housing			

2.2 Authentifizierungssystem PITreader Card / Authentication Systems PITreader Card:

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PITreader card unit (402320)	Authentifizierungssystem via RFID Card Reader, Basiseinheit und card Adapter Authentication system via RFID Reader, base unit and card adapter	ab / from 01	PO98556T
PITreader S card unit (402321)	Authentifizierungssystem via RFID Card Reader, Basiseinheit S und card Adapter Authentication system via RFID Reader, base unit S and card adapter	ab / from 01	PO98556T
Hinweis / Remark			
Sachnummer: „xxx“ = Variante der Bedruckung oder Grundfarbe des Gehäuses Order No: „xxx“ = Variant of printing or basic color of the housing			

3 Zubehör / Accessories:

3.1 Klemmen / Terminal blocks

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PIT m4SEU terminal set spring load (402306)	Steckersatz für sicheres Auswertegerät für Betriebsartenwahl: PIT m4SEU [402250]. Bestehend aus 1 x 4pol., 1 x 5pol., 1 x 8pol. und 1 x 12pol. Buchsenleiste in Federkraftausführung, Kabelabgang gerade. Connector set for safe evaluation unit for operating mode selection: PIT m4SEU [402250]. Consisting of 1 x 4-pin, 1 x 5-pin, 1 x 8-pin and 1 x 12-pin female connector strip spring force version. Cable outlet straight.	1.0	PO93844T

3.2 Transponder-Schlüssel / Transponder Key

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PITreader key ye g (402260xxx)	Transponder-Schlüssel GELB, GENERISCH für elektronischen RFID Reader PITreader; Frei konfigurierbar. Transponder key YELLOW, GENERIC for electronic RFID reader: PITreader; Fully configurable.	1.0	PO93844T
PITreader key ye 1 (402261xxx)	Transponder-Schlüssel GELB für elektronischen RFID Reader PITreader; Berechtigung 1. Transponder key YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 1.	1.0	PO93844T
PITreader key ye 2 (402262xxx)	Transponder-Schlüssel GELB für elektronischen RFID Reader PITreader; Berechtigung 2. Transponder key YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 2.	1.0	PO93844T
PITreader key ye 3 (402263xxx)	Transponder-Schlüssel GELB für elektronischen RFID Reader PITreader; Berechtigung 3. Transponder key YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 3.	1.0	PO93844T
PITreader key ye 4 (402264xxx)	Transponder-Schlüssel GELB für elektronischen RFID Reader PITreader; Berechtigung 4. Transponder key YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 4.	1.0	PO93844T

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PITreader key ye 5 (402265xxx)	Transponder-Schlüssel GELB für elektronischen RFID Reader PITreader; Berechtigung 5. Transponder key YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 5.	1.0	PO93844T
PITreader key ye 5 service (402269xxx)	Transponder-Schlüssel GELB für elektronischen RFID Reader PITreader; Berechtigung 5 (Service). Transponder key YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 5 (service).	1.0	PO93844T
Hinweis / Remark			
Sachnummer: „xxx“ = Variante der Bedruckung oder Grundfarbe des Gehäuses			
Order No: „xxx“ = Variant of printing or basic color of the housing			

3.3 Transponder-Karten / Transponder Cards

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PITreader card ye g (402330xxx)	Transponder-Karte GELB, GENERISCH für elektronischen RFID Reader PITreader; Frei konfigurierbar. Transponder card YELLOW, GENERIC for electronic RFID reader: PITreader; Fully configurable.	1.0	PO98556T
PITreader card ye 1 (402331xxx)	Transponder-Karte GELB für elektronischen RFID Reader PITreader; Berechtigung 1. Transponder card YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 1.	1.0	PO98556T
PITreader card ye 2 (402332xxx)	Transponder-Karte GELB für elektronischen RFID Reader PITreader; Berechtigung 2. Transponder card YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 2.	1.0	PO98556T
PITreader card ye 3 (402333xxx)	Transponder-Karte GELB für elektronischen RFID Reader PITreader; Berechtigung 3. Transponder card YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 3.	1.0	PO98556T

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PITreader card ye 4 (402334xxx)	Transponder-Karte GELB für elektronischen RFID Reader PITreader; Berechtigung 4. Transponder card YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 4.	1.0	PO98556T
PITreader card ye 5 (402335xxx)	Transponder-Karte GELB für elektronischen RFID Reader PITreader; Berechtigung 5. Transponder card YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 5.	1.0	PO98556T
PITreader card ye 5 service (402339xxx)	Transponder-Karte GELB für elektronischen RFID Reader PITreader; Berechtigung 5 (Service). Transponder card YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 5 (service).	1.0	PO98556T
Hinweis / Remark			
Sachnummer: „xxx“ = Variante der Bedruckung oder Grundfarbe des Gehäuses Order No: „xxx“ = Variant of printing or basic color of the housing			

3.4 Transponder-Sticker / Transponder Stickers



Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PITreader sticker ye g (402340xxx)	Transponder-Sticker GELB, GENERISCH für elektronischen RFID Reader PITreader; Frei konfigurierbar. Transponder sticker YELLOW, GENERIC for electronic RFID reader: PITreader; Fully configurable.	1.0	PO98556T
PITreader sticker ye 1 (402341xxx)	Transponder-Sticker GELB für elektronischen RFID Reader PITreader; Berechtigung 1. Transponder sticker YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 1.	1.0	PO98556T
PITreader sticker ye 2 (402342xxx)	Transponder-Sticker GELB für elektronischen RFID Reader PITreader; Berechtigung 2. Transponder sticker YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 2.	1.0	PO98556T



Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Interner Bericht / Internal Report
PITreader sticker ye 3 (402343xxx)	Transponder-Sticker GELB für elektronischen RFID Reader PITreader; Berechtigung 3. Transponder sticker YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 3.	1.0	PO98556T
PITreader sticker ye 4 (402344xxx)	Transponder-Sticker GELB für elektronischen RFID Reader PITreader; Berechtigung 4. Transponder sticker YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 4.	1.0	PO98556T
PITreader sticker ye 5 (402345xxx)	Transponder-Sticker GELB für elektronischen RFID Reader PITreader; Berechtigung 5. Transponder sticker YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 5.	1.0	PO98556T
PITreader sticker ye 5 service (402349xxx)	Transponder-Sticker GELB für elektronischen RFID Reader PITreader; Berechtigung 5 (Service). Transponder sticker YELLOW for electronic RFID reader: PITreader; Material: plastic; Permission 5 (service).	1.0	PO98556T
Hinweis / Remark			
Sachnummer: "xxx" = Variante der Bedruckung oder Grundfarbe des Gehäuses Order No: „xxx“ = Variant of printing or basic color of the housing			



4 Freigabe / Release:

	Freigabe Prüfstelle: Release by Test Body:	Freigabe Zertifizierstelle: Release by Certification Body:
Datum: Date:		
Unterschrift: Signature:	 Digital unterschrieben von Dr. Julian Wolf Datum: 2022.04.05 14:36:49 +02'00'	 Digital unterschrieben von Christian Dirmeier Datum: 2022.04.11 12:16:30 +02'00'