



Product Service

EC-Type Examination Certificate

No. M6A 020132 0166 Rev. 01

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"**

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 PO85705T 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.: **PO93800T**

Valid until: 2024-04-02

Date, 2019-04-03

(Peter Weiß)

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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

TÜV®

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ CERTIFICADO ◆ CERTIFICAT



Product Service

CERTIFICATE

No. Z10 020132 0164 Rev. 01

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"**

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 P085705T in the current valid revision.

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

Tested according to:
EN ISO 13849-1:2015 (Cat 3, PI d)
EN 62061:2005/A2:2015 (SILCL 2)
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.: **PO93800T**
Valid until: **2024-04-02**

Date, 2019-04-03 (Peter Weiß)



Liste der Varianten der Betriebsarten-Wahlschalter

PIT mode

List of variants of
Operating-mode Switch

PIT mode

Hersteller / Manufacturer:

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

Bericht-Nr. / Report no: PO85705T

Revision 1.6
2019-04-05

Prüfstelle / Test body:

TÜV SÜD RAIL GmbH
Rail Automation

Zertifizierungsstelle / Certification body:

TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 München

Änderungshistorie / Change history:

Version	Name	Datum / Date	Änderungen / Changes
1.0	Jens Luther	20.03.2014	Erste Ausgabe / First release
1.1	W. Mayer	11.12.2015	Update
1.2	W. Mayer	18.12.2015	Zusätzliche Transponder-Schlüssel / additional transponder keys
1.3	W. Mayer	12.04.2016	Mechanische Verbesserung am Gehäuse und der Front Folie / mechanical improvements on the enclosure and the front foil
1.4	W. Mayer	25.11.2016	Kundenspezifische Varianten der Frontfolie und des Betätigers / customized variants of front foils and actuators
1.5	J. Luther	03.04.2019	Aktualisieren der Zertifikate und Kombinieren von PIT m2x / PIT m3x in einem Zertifikat und einer Liste von Varianten / Updating the certificates and combining PIT m2.x / PIT m3.x in one certificate and list of variants
1.6	J. Luther	05.04.2019	Kapitel neu strukturiert / Chapters new structured Sicherheitskennzahlen PITm2x eingefügt / Safety characters PITm2x added

Änderungen zur Vorgängerversion / Changes to the previous version:

Kundenspezifische Varianten der Frontfolie und des Betätigers / customized variants of front foils and actuators

Kapitel Chapter	Type / Device	Bemerkung / Remarks	Version alt/old	Version neu/new
1	PIT m2.1p	Update	1.0	1.1

1. Betriebsarten-Wahlschalter Typ 2 / Operating mode selector switch type 2:

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Bericht / Report	Bemerkung / Remark
PIT m2p (402200xxx)	Betriebsarten-Wahlschalter, 4 Tasten Operating mode selector switch, 4 touch	1.1	PO88384T PO9300T	--
PIT m2.1p (402201xxx)	Betriebsarten-Wahlschalter, 4 Tasten Operating mode selector switch, 4 touch	1.1	PO85546T PO9300T	--
PIT m2.1p (402202xxx)	Antenne Antenna	2	PO85546 PO9300T T	--
PIT m2 key mode 1 (402030xxx)	Transponder-Schlüssel, Betriebsart: 01 Transponder Key, Mode: 01	1.0	PO85546T PO9300T	--
PIT m2 key mode 2 (402031xxx)	Transponder-Schlüssel, Betriebsart: 02 Transponder Key, Mode: 02	1.0	PO85546T PO9300T	--
PIT m2 key mode 3 (402032xxx)	Transponder-Schlüssel, Betriebsart: 03 Transponder Key, Mode: 03	1.0	PO85546T PO9300T	--
PIT m2 key mode 4 (402033xxx)	Transponder-Schlüssel, Betriebsart: 04 Transponder Key, Mode: 04	1.0	PO85546T PO9300T	--
PIT m2 key service (402034xxx)	Transponder-Schlüssel, Betriebsart: Service Transponder Key, Mode: Service	1.0	PO85546T PO9300T	--
PIT m2 key master (4022035)	Transponder-Schlüssel, Betriebsart: Master Transponder Key, Mode: Master	1.0	PO85546T PO9300T	--
PIT m2.1 key mode 1 (402051xxx)	Transponder-Schlüssel, Betriebsart: 01 Transponder Key, Mode: 01	1.0	PO85546T PO9300T	--
PIT m2.1 key mode 2 (402052xxx)	Transponder-Schlüssel, Betriebsart: 02 Transponder Key, Mode: 02	1.0	PO85546T PO9300T	--

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Bericht / Report	Bemerkung / Remark	
PIT m2 key mode 3 (402053xxx)	Transponder-Schlüssel, Betriebsart: 03 Transponder Key, Mode: 03	1.0	PO85546T PO9300T	--	
PIT m2.1 key mode 4 (402054xxx)	Transponder-Schlüssel, Betriebsart: 04 Transponder Key, Mode: 04	1.0	PO85546T PO9300T	--	
PIT m2.1 key service (402055xxx)	Transponder-Schlüssel, Betriebsart: Service Transponder Key, Mode: Service	1.0	PO85546T PO9300T	--	
PIT m2.1 key master (402056xxx)	Transponder-Schlüssel, Betriebsart: Master Transponder Key, Mode: Master	1.0	PO85546T PO9300T	--	
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	5,75·10⁻⁰⁹	3,19·10⁻⁰⁴	20
Hinweis / Remark					
Sachnummer: „xxx“ = Bedruckungsvariante bzw. farbliche Gestaltung des Transponders Oder No: „xxx“ = Print variant as well as coloured variant of the transponder					



2. Betriebsarten-Wahlschalter Typ 3 / Operating mode selector switch type 3:

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Bericht / Report	Bemerkung / Remark
PIT m3p (402210)	Betriebsarten-Wahlschalter, 4 Tasten Operating mode selector switch, 4 touch	1.0	717502995 V1.3	--
PIT m3.1p (402220)	Betriebsarten-Wahlschalter, 4 Tasten Operating mode selector switch, 4 touch	1.1	717502995 V1.3	--
PIT m3.2p (402230xxx)	Betriebsarten-Wahlschalter, 4 Tasten Operating mode selector switch, 4 touch	1.2	717502995 V1.3 PO90245T V1.0	Safety Output 24V DC, 50mA Protection class up to IP65
PIT m3.2p machine tools pictogram (402231xxx)	Betriebsarten-Wahlschalter, 4 Tasten, Piktogramm Operating mode selector switch, 4 touch, pictogram	1.2	717502995 V1.3 PO90245T V1.0	Safety Output 24V DC, 50mA Protection class up to IP65
PIT m3.2p (402232)	Betriebsarten-Wahlschalter, 4 Tasten Operating mode selector switch, 4 touch	1.2	717502995 V1.3	Safety Output 24V DC, 50mA Protection class up to IP65
PIT m3.3p (402240xxx)	Betriebsarten-Wahlschalter, 2 Tasten Operating mode selector switch, 2 touch	1.2	717502995 V1.3 PO90245T V1.0	Safety Output 24V DC, 50mA Protection class up to IP65
PIT m3.3p machine tools pictogram (402241xxx)	Betriebsarten-Wahlschalter, 2 Tasten, Piktogramm Operating mode selector switch, 2 touch, pictogram	1.2	717502995 V1.3 PO90245T V1.0	Safety Output 24V DC, 50mA Protection class up to IP65
PIT m3 key mode 1 (402211xxx)	Transponder-Schlüssel, Betriebsart: 01 Transponder Key, Mode: 01	1.0	717502995 V1.3	--
PIT m3 key mode 2 (402212xxx)	Transponder-Schlüssel, Betriebsart: 02 Transponder Key, Mode: 02	1.0	717502995 V1.3	--
PIT m3 key mode 3 (402213xxx)	Transponder-Schlüssel, Betriebsart: 03 Transponder Key, Mode: 03	1.0	717502995 V1.3	--
PIT m3 key mode 4 (402214xxx)	Transponder-Schlüssel, Betriebsart: 04 Transponder Key, Mode: 04	1.0	717502995 V1.3	--

Typ / Type (Sachnummer/Order No.)	Beschreibung / Description	Version	Bericht / Report	Bemerkung / Remark
PIT m3 key service (402215xxx)	Transponder-Schlüssel, Betriebsart: Service Transponder Key, Mode: Service	1.0	717502995 V1.3	--
PIT m3 key2 mode 1 (402281xxx)	Transponder-Schlüssel, budget, Betriebsart: 01 Transponder Key, budget, Mode: 01	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2 mode 2 (402282xxx)	Transponder-Schlüssel, budget, Betriebsart: 02 Transponder Key, budget, Mode: 02	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2 mode 3 (402283xxx)	Transponder-Schlüssel, budget, Betriebsart: 03 Transponder Key, budget, Mode: 03	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2 mode 4 (402284xxx)	Transponder-Schlüssel, budget, Betriebsart: 04 Transponder Key, budget, Mode: 04	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2 mode service (402285xxx)	Transponder-Schlüssel, budget, Betriebsart: Service Transponder Key, budget, Mode: service	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2hq mode 1 (402291xxx)	Transponder-Schlüssel, high end, Betriebsart: 01 Transponder Key, high end, Mode: 01	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2hq mode 2 (402292xxx)	Transponder-Schlüssel, high end, Betriebsart: 02 Transponder Key, high end, Mode: 02	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2hq mode 3 (402293xxx)	Transponder-Schlüssel, high end, Betriebsart: 03 Transponder Key, high end, Mode: 03	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2hq mode 4 (402294xxx)	Transponder-Schlüssel, high end, Betriebsart: 04 Transponder Key, high end, Mode: 04	1.0	717502995 V1.3 PO90245T V1.0	--
PIT m3 key2hq mode service (402295xxx)	Transponder-Schlüssel, high end, Betriebsart: Service Transponder Key, high end, Mode: service	1.0	717502995 V1.3 PO90245T V1.0	--

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	1,10·10 ⁻⁰⁸	5,28·10 ⁻⁰⁴	20
Hinweis / Remark					
Sachnummer: „xxx“ = Bedruckungsvariante bzw. farbliche Gestaltung des Transponders Oder No: „xxx“ = Print variant as well as coloured cariant of the transponder					

3. Freigabe / Release:

	Freigabe Prüfstelle: Release by Test Body:	Freigabe Zertifizierstelle: Release by Certification Body:
Datum: Date:	2019-04-05	2019-04-05
Unterschrift: Signature:	 <p>Digitally signed by Jens Luther Date: 2019.04.05 13:57:16 +02'00'</p> <p>Jens Luther</p>	 <p>Digital unterschrieben von Peter Weiß Datum: 2019.04.08 09:37:21 +02'00'</p> <p>Peter Weiß</p>