

EC-Type Examination Certificate

No. M6A 020132 0232 Rev. 02

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

Felix-Wankel-Str. 2
73760 Ostfildern
GERMANY

Product: **Electro-Sensitive Protective Equipment
Safety Light Curtain (Type 3)**

Model(s): **PSEN opII3**

Parameters: Power Supply: 24 V DC-25% / +20%
Protection class: IP65

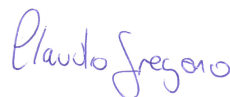
The report and the user documentation in the current valid revision are mandatory part of this certificate. The product complies with the following safety requirements only if the specifications documented in the currently valid revision of this report are met. The certified components are listed in report PO90097T 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.: 717513633

Valid until: 2026-06-14

Date, 2021-06-28



(Claudio Gregorio)



Product Service

CERTIFICATE

No. Z10 020132 0231 Rev. 02

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

Felix-Wankel-Str. 2
73760 Ostfildern
GERMANY

Certification Mark:



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Safety Light Curtain (Type 3)**

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**Tested
according to:**

EN IEC 61496-1:2020
EN IEC 61496-2:2020
EN ISO 13849-1:2015 (Cat.3, PL d)
EN 61508-1:2010 (SIL2)
EN 61508-2:2010 (SIL2)
EN 61508-3:2010 (SIL2)
EN 61508-4:2010 (SIL2)
EN 62061:2005/A2:2015 (SILCL 2)

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.: 717513633
Valid until: 2026-06-14

Date, 2021-06-16

(Claudio Gregorio)



**Liste der Varianten
der berührungslos wirkenden Schutzeinrichtung (BWS)
PSEN opII3**

**List of variants
of electro-sensitive protective equipment
PSEN opII3**

Hersteller / Manufacturer:

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

Bericht-Nr. / Report no:

PO90097T

Revision 1.11
2024-03-26

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	Sicherheitslichtgitter / Safety light grid	3
1.1	14mm Auflösung / 14mm Resolution	3
1.2	30mm Auflösung / 30mm Resolution	7
1.3	170mm Auflösung / 170mm Resolution	11
1.4	300mm Auflösung / 300mm Resolution	13
1.5	Sicherheitskennzahlen / Safety-related characteristics	15
1.6	Zubehör / Accessory	15
2	Anmerkung / Comment.....	16
2.1	Version / Version	16

Änderungshistorie / Change history:

Version	Name	Datum / Date	Änderungen / Changes
1.11	Wolfgang Mayer	2024-03-26	H4227 undo alternate photo diode

Änderungen zur Vorgängerversion / Changes to the previous version:

Kapitel Chapter	Baugruppe Device	Version Alt / Old	Version Neu / New
1.1,1.2 1.3, 1.4	all	PO100741T, V1.0	PO100741T, V1.1



1 Sicherheitslichtgitter / Safety light grid

1.1 14mm Auflösung / 14mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection height	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
PSEN opII3F-s-14-015 (632040)	PSEN opII3F-s-14-015 emitter (632240)	PSEN opII3F-s-14-015 receiver (632340)	150mm	5,9ms	11,7ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-030 (632041)	PSEN opII3F-s-14-030 emitter (632241)	PSEN opII3F-s-14-030 receiver (632341)	300mm	7,2ms	15,2ms	717513633, V1.8 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0
PSEN opII3F-s-14-045 (632042)	PSEN opII3F-s-14-045 emitter (632242)	PSEN opII3F-s-14-045 receiver (632342)	450mm	8,4ms	15,2ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-060 (632043)	PSEN opII3F-s-14-060 emitter (632243)	PSEN opII3F-s-14-060 receiver (632343)	600mm	9,7ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzhöhe protection height	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-075 (632044)	PSEN opII3F-s-14-075 emitter (632244)	PSEN opII3F-s-14-075 receiver (632344)	750mm	11ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-090 (632045)	PSEN opII3F-s-14-090 emitter (632245)	PSEN opII3F-s-14-090 receiver (632345)	900mm	12,3ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-105 (632046)	PSEN opII3F-s-14-105 emitter (632246)	PSEN opII3F-s-14-105 receiver (632346)	1050mm	13,6ms	36,4ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-120	PSEN opII3F-s-14-120 emitter	PSEN opII3F-s-14-120 receiver	1200mm	14,8ms	36,4ms	717513633, V1.10



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
(632047)	(632247)	(632347)				PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-135 (632048)	PSEN opII3F-s-14-135 emitter (632248)	PSEN opII3F-s-14-135 receiver (632348)	1350mm	16,1ms	36,4ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-150 (632049)	PSEN opII3F-s-14-150 emitter (632249)	PSEN opII3F-s-14-150 receiver (632349)	1500mm	17,4ms	36,4ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3F-s-14-165 (632050)	PSEN opII3F-s-14-165 emitter (632250)	PSEN opII3F-s-14-165 receiver (632350)	1650mm	18,7ms	36,4ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO100741T, V1.1
PSEN opII3F-s-14-180 (632051)	PSEN opII3F-s-14-180 emitter (632251)	PSEN opII3F-s-14-180 receiver (632351)	1800mm	20ms	36,4ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1



1.2 30mm Auflösung / 30mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection height	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
PSEN opII3H-s-30-015 (632020)	PSEN opII3H-s-30-015 emitter (632220)	PSEN opII3H-s-30-015 receiver (632320)	150mm	5,2ms	11,7ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-030 (632021)	PSEN opII3H-s-30-030 emitter (632221)	PSEN opII3H-s-30-030 receiver (632321)	300mm	5,9ms	11,7ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-045 (632022)	PSEN opII3H-s-30-045 emitter (632222)	PSEN opII3H-s-30-045 receiver (632322)	450mm	6,5ms	11,7ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-060	PSEN opII3H-s-30-060 emitter	PSEN opII3H-s-30-060 receiver	600mm	7,2ms	15,2ms	717513633, V1.10



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
(632023)	(632223)	(632323)				PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-075 (632024)	PSEN opII3H-s-30-075 emitter (632224)	PSEN opII3H-s-30-075 receiver (632324)	750mm	7,8ms	15,2ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-090 (632025)	PSEN opII3H-s-30-090 emitter (632225)	PSEN opII3H-s-30-090 receiver (632325)	900mm	8,4ms	15,2ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-105 (632026)	PSEN opII3H-s-30-105 emitter (632226)	PSEN opII3H-s-30-105 receiver (632326)	1050mm	9,1ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-120 (632027)	PSEN opII3H-s-30-120 emitter (632227)	PSEN opII3H-s-30-120 receiver (632327)	1200mm	9,7ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-135 (632028)	PSEN opII3H-s-30-135 emitter (632228)	PSEN opII3H-s-30-135 receiver (632328)	1350mm	10,4ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-150 (632029)	PSEN opII3H-s-30-150 emitter (632229)	PSEN opII3H-s-30-150 receiver (632329)	1500mm	11ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-165 (632030)	PSEN opII3H-s-30-165 emitter (632230)	PSEN opII3H-s-30-165 receiver (632330)	1650mm	11,6ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3H-s-30-180 (632031)	PSEN opII3H-s-30-180 emitter (632231)	PSEN opII3H-s-30-180 receiver (632331)	1800mm	12,3ms	22,3ms	717513633, V1.10 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1



1.3 170mm Auflösung / 170mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection height	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
PSEN opII3B-s-170-045 (632100)	PSEN opII3B-s-170-045 emitter (632400)	PSEN opII3B-s-170-045 receiver (632440)	450mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-170-060 (632101)	PSEN opII3B-s-170-060 emitter (632401)	PSEN opII3B-s-170-060 receiver (632441)	600mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-170-075 (632102)	PSEN opII3B-s-170-075 emitter (632402)	PSEN opII3B-s-170-075 receiver (632442)	750mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-170-090 (632103)	PSEN opII3B-s-170-090 emitter (632403)	PSEN opII3B-s-170-090 receiver (632443)	900mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-170-120 (632104)	PSEN opII3B-s-170-120 emitter (632404)	PSEN opII3B-s-170-120 receiver (632444)	1200mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-170-150 (632105)	PSEN opII3B-s-170-150 emitter (632405)	PSEN opII3B-s-170-150 receiver (632445)	1500mm	5,4ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1



1.4 300mm Auflösung / 300mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzhöhe protection height	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
PSEN opII3B-s-300-045 (632110)	PSEN opII3B-s-300-045 emitter (632410)	PSEN opII3B-s-300-045 receiver (632450)	450mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-300-060 (632111)	PSEN opII3B-s-300-060 emitter (632411)	PSEN opII3B-s-300-060 receiver (632451)	600mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-300-075 (632112)	PSEN opII3B-s-300-075 emitter (632412)	PSEN opII3B-s-300-075 receiver (632452)	750mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-300-090 (632113)	PSEN opII3B-s-300-090 emitter (632413)	PSEN opII3B-s-300-090 receiver (632453)	900mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzhöhe protection height	Reaktionszeit response time		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-300-120 (632114)	PSEN opII3B-s-300-120 emitter (632414)	PSEN opII3B-s-300-120 receiver (632454)	1200mm	5,2ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1
PSEN opII3B-s-300-150 (632115)	PSEN opII3B-s-300-150 emitter (632415)	PSEN opII3B-s-300-150 receiver (632455)	1500mm	5,4ms	11,7ms	717515366, V11.10 PO90096T, V1.0 PO93371T, V1.0 PO95993T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1



1.5 Sicherheitskennzahlen / Safety-related characteristics

Sicherheitstechnische Kenndaten der Sicherheitsausgänge Safety-related characteristics of the safety outputs				
Sicherheitsfunktion Safety function	Kategorie	PL	PFH _D	SIL CL
Control of safety outputs	3	d	2,0E-07	2

1.6 Zubehör / Accessory

Typ Type	Bemerkung Remark	Intern. Prüfbericht Internal test report
PSEN opII Testpiece 14mm (632018)	Prüfstab für Sicherheitslichtgitter mit Fingerschutz, Ø 14mm Test piece for safety light grid for finger protection, Ø 14mm	-
PSEN opII Testpiece 30mm (632019)	Prüfstab für Sicherheitslichtgitter mit Fingerschutz, Ø 30mm Test piece for safety light grid for finger protection, Ø 30mm	-
PSEN opII lockout (632510)	Mechanische Schutteinrichtung zum gesicherten Unterbrechen des Schutzfeldes, abschließbar Mechanical protective device for a secure interruption of the protective field, lockable	717515366, V1.5 PO96267T, V1.0
PSEN opII muting box (6C000181)	Verdrahtungshilfe für PSEN opII Sicherheitslichtgitter Wiring assistance for PSEN op safety light curtain	717515366 V1.9 PO99039T, V1.0
PSEN opII muting arm (6C000185)	2 Muting-Arme für die Montage von Muting-Sensoren an Sender und Empfänger der PSEN opIIxx-Serien 2 muting arms for assembling of muting sensors on sender and receiver of the PSEN opIIxx series	717515366 V1.9 PO99039T, V1.0
PSEN opII muting arm bracket kit (6C000186)	4 Halterungen für die Montage von Muting-Sensoren an Muting-Arme 4 brackets for mounting muting sensors on muting arms	717515366 V1.9 PO99039T, V1.0

2 Anmerkung / Comment

2.1 Version / Version

Versionen alt ohne Codierung für 14mm und 30mm Auflösung /
versions old without coding for 14mm and 30mm resolution

System	Software			
1.0	Gesamt	SignalProcessor	AppControl	SafetyOS
	2.0	5.3	2.0	1.0.0

Versionen neu mit Codierung für 14mm Auflösung /
versions new with coding for 14mm resolution

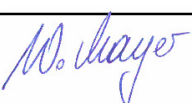
System	Software			
4.0	Gesamt	SignalProcessor	AppControl	SafetyOS
	4.1	6.9(Tx), 8.7(Rx)	3.4.1	1.0.1

Versionen neu mit Codierung für 30mm Auflösung /
versions new with coding for 30mm resolution

System	Software			
4.0	Gesamt	SignalProcessor	AppControl	SafetyOS
	4.1	6.9(Tx), 8.7(Rx)	3.4.1	1.0.1

Versionen mit Codierung für 170mm und 300mm Auflösung /
versions with coding for 170mm and 300mm resolution

System	Software			
4.0	Gesamt	SignalProcessor	AppControl	SafetyOS
	4.1	6.9(Tx), 8.7(Rx)	3.4.1	1.0.1

	Freigabe Prüfstelle: Release by Test Body:	Freigabe Zertifizierstelle: Release by Certification Body:
Datum: Date:	2024-03-26	2024-03-26
Unterschrift: Signature:	 Wolfgang Mayer 2024.03.26 12:39:49 +01'00'	 Guido Neumann 2024.03.26 17:40:24 +01'00'