



EC-Type Examination Certificate

No. M6A 020132 0232 Rev. 03

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.:

PO106925C

Valid until: 2031-07-19

Date, 2026-07-21

(Matthias Ramold)



CERTIFICATE

No. Z10 020132 0231 Rev. 03

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

Certification Mark:



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.

Tested according to: EN IEC 61496-1:2020
EN IEC 61496-2:2020
EN ISO 13849-1:2023 (Cat. 3, PL d)
EN 61508-1:2010 (SIL2)
EN 61508-2:2010 (SIL2)
EN 61508-3:2010 (SIL2)
EN 61508-4:2010 (SIL2)

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.: PO106925C

Valid until: 2031-07-20

Date, 2026-07-22

(Matthias Ramold)



**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 1.13
2026-07-29

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
1.13	Wolfgang Mayer	2026-07-29	PSENopt Advanced

Änderungen zur Vorgängerversion / Changes to the previous version:

Kapitel Chapter	Baugruppe Device	Version Alt / Old	Version Neu / New
2	PSEN oplI3-A	-	PO106952T V1.1
		-	PO106925C V1.1



1 Sicherheitslichtgitter Basic / Safety light grid Basic

1.1 14mm Auflösung / 14mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
PSEN opI3F-s-14-015 (632040)	PSEN opI3F-s-14-015 emitter (632240)	PSEN opI3F-s-14-015 receiver (632340)	150mm	5,9ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3F-s-14-030 (632041)	PSEN opI3F-s-14-030 emitter (632241)	PSEN opI3F-s-14-030 receiver (632341)	300mm	7,2ms	15,2ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3F-s-14-045 (632042)	PSEN opI3F-s-14-045 emitter (632242)	PSEN opI3F-s-14-045 receiver (632342)	450mm	8,4ms	15,2ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3F-s-14-060 (632043)	PSEN opI3F-s-14-060 emitter (632243)	PSEN opI3F-s-14-060 receiver (632343)	600mm	9,7ms	22,3ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3F-s-14-075 (632044)	PSEN opI3F-s-14-075 emitter (632244)	PSEN opI3F-s-14-075 receiver (632344)	750mm	11ms	22,3ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3F-s-14-090 (632045)	PSEN opI3F-s-14-090 emitter (632245)	PSEN opI3F-s-14-090 receiver (632345)	900mm	12,3ms	22,3ms	717513633, V1.10 PO106925C, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
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 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opII3F-s-14-120 (632047)	PSEN opII3F-s-14-120 emitter (632247)	PSEN opII3F-s-14-120 receiver (632347)	1200mm	14,8ms	36,4ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
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 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
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 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
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 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO106963T, V1.0 PO106952T, V1.0
PSEN opI3F-s-14-180 (632051)	PSEN opI3F-s-14-180 emitter (632251)	PSEN opI3F-s-14-180 receiver (632351)	1800mm	20ms	36,4ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0



1.2 30mm Auflösung / 30mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
PSEN opI3H-s-30-015 (632020)	PSEN opI3H-s-30-015 emitter (632220)	PSEN opI3H-s-30-015 receiver (632320)	150mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-030 (632021)	PSEN opI3H-s-30-030 emitter (632221)	PSEN opI3H-s-30-030 receiver (632321)	300mm	5,9ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-045 (632022)	PSEN opI3H-s-30-045 emitter (632222)	PSEN opI3H-s-30-045 receiver (632322)	450mm	6,5ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-060 (632023)	PSEN opI3H-s-30-060 emitter (632223)	PSEN opI3H-s-30-060 receiver (632323)	600mm	7,2ms	15,2ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-075 (632024)	PSEN opI3H-s-30-075 emitter (632224)	PSEN opI3H-s-30-075 receiver (632324)	750mm	7,8ms	15,2ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-090 (632025)	PSEN opI3H-s-30-090 emitter (632225)	PSEN opI3H-s-30-090 receiver (632325)	900mm	8,4ms	15,2ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-105 (632026)	PSEN opI3H-s-30-105 emitter (632226)	PSEN opI3H-s-30-105 receiver (632326)	1050mm	9,1ms	22,3ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-120 (632027)	PSEN opI3H-s-30-120 emitter (632227)	PSEN opI3H-s-30-120 receiver (632327)	1200mm	9,7ms	22,3ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-135	PSEN opI3H-s-30-135 emitter	PSEN opI3H-s-30-135 receiver	1350mm	10,4ms	22,3ms	717513633, V1.10



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
(632028)	(632228)	(632328)				PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-150 (632029)	PSEN opI3H-s-30-150 emitter (632229)	PSEN opI3H-s-30-150 receiver (632329)	1500mm	11ms	22,3ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-165 (632030)	PSEN opI3H-s-30-165 emitter (632230)	PSEN opI3H-s-30-165 receiver (632330)	1650mm	11,6ms	22,3ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO106963T, V1.0 PO106952T, V1.0
PSEN opI3H-s-30-180 (632031)	PSEN opI3H-s-30-180 emitter (632231)	PSEN opI3H-s-30-180 receiver (632331)	1800mm	12,3ms	22,3ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0

1.3 170mm Auflösung / 170mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
PSEN opI3B-s-170-045 (632100)	PSEN opI3B-s-170-045 emitter (632400)	PSEN opI3B-s-170-045 receiver (632440)	450mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-170-060 (632101)	PSEN opI3B-s-170-060 emitter (632401)	PSEN opI3B-s-170-060 receiver (632441)	600mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-170-075 (632102)	PSEN opI3B-s-170-075 emitter (632402)	PSEN opI3B-s-170-075 receiver (632442)	750mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-170-090 (632103)	PSEN opI3B-s-170-090 emitter (632403)	PSEN opI3B-s-170-090 receiver (632443)	900mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-170-120 (632104)	PSEN opI3B-s-170-120 emitter (632404)	PSEN opI3B-s-170-120 receiver (632444)	1200mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-170-150 (632105)	PSEN opI3B-s-170-150 emitter (632405)	PSEN opI3B-s-170-150 receiver (632445)	1500mm	5,4ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0

1.4 300mm Auflösung / 300mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
PSEN opI3B-s-300-045 (632110)	PSEN opI3B-s-300-045 emitter (632410)	PSEN opI3B-s-300-045 receiver (632450)	450mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-300-060 (632111)	PSEN opI3B-s-300-060 emitter (632411)	PSEN opI3B-s-300-060 receiver (632451)	600mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-300-075 (632112)	PSEN opI3B-s-300-075 emitter (632412)	PSEN opI3B-s-300-075 receiver (632452)	750mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-300-090 (632113)	PSEN opI3B-s-300-090 emitter (632413)	PSEN opI3B-s-300-090 receiver (632453)	900mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-300-120 (632114)	PSEN opI3B-s-300-120 emitter (632414)	PSEN opI3B-s-300-120 receiver (632454)	1200mm	5,2ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0 PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0
PSEN opI3B-s-300-150 (632115)	PSEN opI3B-s-300-150 emitter (632415)	PSEN opI3B-s-300-150 receiver (632455)	1500mm	5,4ms	11,7ms	717513633, V1.10 PO106925C, V1.0 PO90096T, V1.0 PO92446T, V1.0



System Unit	Sender Emitter	Empfänger Receiver	Schutzfeldhöhe protection hight	Reaktionszeit (ms) response time (ms)		Intern. Prüfbericht Internal test report
				Uncodiert uncoded	codiert coded	
						PO93603T, V1.0 PO96930T, V1.0 PO97040T, V1.0 PO97159T, V1.0 PO100741T, V1.1 PO106963T, V1.0 PO106952T, V1.0



1.5 Anmerkung Basic / Comment Basic

1.5.1 Version Basic / Version Basic

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

System	Software			
1.0	Gesamt	SignalProcessor	AppControl	SafetyOS
	2.0	5.3	2.0	1.0.0

Versionen neu mit Codierung für 14 mm, 30 mm, 170 mm, 300 mm Auflösung /
Versions new with coding for 14 mm, 30 mm, 170 mm, 300 mm resolution

System	Software			
4.0	Gesamt	SignalProcessor	AppControl	SafetyOS
	4.2	6.9(Tx), 8.7(Rx)	3.4.2	1.0.1

2 Sicherheitslichtgitter Advanced / Safety light grid Advanced

2.1 14mm Auflösung / 14mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeld- höhe protection hight	Reaktionszeit (ms) response time (ms)				Intern. Prüfbericht Internal test report
				Uncodiert uncoded		Codiert coded		
				OSSDe	IOLS	OSSDe	IOLS	
PSEN oplI3F-A-14-030-IOLS (6C000001)	PSEN oplI3F-A-14-030-IOLS emitter (6C000125)	PSEN oplI3F-A-14-030-IOLS receiver (6C000069)	300mm	8,9	38,9	15,2	45,2	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-045-IOLS (6C000002)	PSEN oplI3F-A-14-045-IOLS emitter (6C000126)	PSEN oplI3F-A-14-045-IOLS receiver (6C000070)	450mm	10,5	40,5	15,2	45,2	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-060-IOLS (6C000003)	PSEN oplI3F-A-14-060-IOLS emitter (6C000127)	PSEN oplI3F-A-14-060-IOLS receiver (6C000071)	600mm	12,1	42,1	22,3	52,3	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-075-IOLS (6C000004)	PSEN oplI3F-A-14-075-IOLS emitter (6C000128)	PSEN oplI3F-A-14-075-IOLS receiver (6C000072)	750mm	13,7	43,7	22,3	52,3	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-090-IOLS (6C000005)	PSEN oplI3F-A-14-090-IOLS emitter (6C000129)	PSEN oplI3F-A-14-090-IOLS receiver (6C000073)	900mm	15,3	45,3	22,3	52,3	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-105-IOLS (6C000006)	PSEN oplI3F-A-14-105-IOLS emitter (6C000130)	PSEN oplI3F-A-14-105-IOLS receiver (6C000074)	1050mm	16,9	46,9	36,4	66,4	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-120-IOLS (6C000007)	PSEN oplI3F-A-14-120-IOLS emitter (6C000131)	PSEN oplI3F-A-14-120-IOLS receiver (6C000075)	1200mm	18,5	48,5	36,4	66,4	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-135-IOLS (6C000008)	PSEN oplI3F-A-14-135-IOLS emitter (6C000132)	PSEN oplI3F-A-14-135-IOLS receiver (6C000076)	1350mm	20,1	50,1	36,4	66,4	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-150-IOLS (6C000009)	PSEN oplI3F-A-14-150-IOLS emitter (6C000133)	PSEN oplI3F-A-14-150-IOLS receiver (6C000077)	1500mm	21,7	51,7	36,4	66,4	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-165-IOLS (6C000010)	PSEN oplI3F-A-14-165-IOLS emitter (6C000133)	PSEN oplI3F-A-14-165-IOLS receiver (6C000078)	1650mm	23,3	53,3	36,4	66,4	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3F-A-14-180-IOLS (6C000011)	PSEN oplI3F-A-14-180-IOLS emitter (6C000135)	PSEN oplI3F-A-14-180-IOLS receiver (6C000079)	1800mm	24,9	54,9	36,4	66,4	PO106925C V1.1 PO106952T_v1.1

2.2 30mm Auflösung / 30mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeld- höhe protection hight	Reaktionszeit (ms) response time (ms)				Intern. Prüfbericht Internal test report
				Uncodiert uncoded		Codiert coded		
				OSSDe	IOLS	OSSDe	IOLS	
PSEN oplI3H-A-30-030-IOLS (6C000023)	PSEN oplI3H-A-30-030-IOLS emitter (6C000147)	PSEN oplI3H-A-30-030-IOLS receiver (6C000091)	300mm	7,3	37,3	11,7	41,7	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-045-IOLS (6C000024)	PSEN oplI3H-A-30-045-IOLS emitter (6C000148)	PSEN oplI3H-A-30-045-IOLS receiver (6C000092)	450mm	8,1	38,1	11,7	41,7	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-060-IOLS (6C000025)	PSEN oplI3H-A-30-060-IOLS emitter (6C000149)	PSEN oplI3H-A-30-060-IOLS receiver (6C000093)	600mm	8,9	38,9	15,2	45,2	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-075-IOLS (6C000026)	PSEN oplI3H-A-30-075-IOLS emitter (6C000150)	PSEN oplI3H-A-30-075-IOLS receiver (6C000094)	750mm	9,7	39,7	15,2	45,2	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-090-IOLS (6C000027)	PSEN oplI3H-A-30-090-IOLS emitter (6C000151)	PSEN oplI3H-A-30-090-IOLS receiver (6C000095)	900mm	10,5	40,5	15,2	45,2	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-105-IOLS (6C000028)	PSEN oplI3H-A-30-105-IOLS emitter (6C000152)	PSEN oplI3H-A-30-105-IOLS receiver (6C000096)	1050mm	11,3	41,3	22,3	52,3	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-120-IOLS (6C000029)	PSEN oplI3H-A-30-120-IOLS emitter (6C000153)	PSEN oplI3H-A-30-120-IOLS receiver (6C000097)	1200mm	12,1	42,1	22,3	52,3	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-135-IOLS (6C000030)	PSEN oplI3H-A-30-135-IOLS emitter (6C000154)	PSEN oplI3H-A-30-135-IOLS receiver (6C000098)	1350mm	12,9	42,9	22,3	52,3	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-150-IOLS (6C000031)	PSEN oplI3H-A-30-150-IOLS emitter (6C000155)	PSEN oplI3H-A-30-150-IOLS receiver (6C000099)	1500mm	13,7	43,7	22,3	52,3	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-165-IOLS (6C000032)	PSEN oplI3H-A-30-165-IOLS emitter (6C000156)	PSEN oplI3H-A-30-165-IOLS receiver (6C000100)	1650mm	14,5	44,5	22,3	52,3	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3H-A-30-180-IOLS (6C000033)	PSEN oplI3H-A-30-180-IOLS emitter (6C000157)	PSEN oplI3H-A-30-180-IOLS receiver (6C000101)	1800mm	15,3	45,3	22,3	52,3	PO106925C V1.1 PO106952T_v1.1

2.3 170mm Auflösung / 170mm Resolution

System Unit	Sender Emitter	Empfänger Receiver	Schutzfeld- höhe protection hight	Reaktionszeit (ms) response time (ms)				Intern. Prüfbericht Internal test report
				Uncodiert uncoded		Codiert coded		
				OSSDe	IOLS	OSSDe	IOLS	
PSEN oplI3B-A-170-045-IOLS (6C000045)	PSEN oplI3B-A-170-045-IOLS emitter (6C000169)	PSEN oplI3B-A-170-045- IOLS receiver (6C000113)	450mm	6.5	36,5	11,7	41,7	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3B-A-170-060-IOLS (6C000046)	PSEN oplI3B-A-170-060-IOLS emitter (6C000170)	PSEN oplI3B-A-170-060- IOLS receiver (6C000114)	600mm	6.5	36,5	11,7	41,7	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3B-A-170-075-IOLS (6C000047)	PSEN oplI3B-A-170-075-IOLS emitter (6C000171)	PSEN oplI3B-A-170-075- IOLS receiver (6C000115)	750mm	6.5	36,5	11,7	41,7	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3B-A-170-090-IOLS (6C000048)	PSEN oplI3B-A-170-090-IOLS emitter (6C000172)	PSEN oplI3B-A-170-090- IOLS receiver (6C000116)	900mm	6.5	36,5	11,7	41,7	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3B-A-170-120-IOLS (6C000049)	PSEN oplI3B-A-170-120-IOLS emitter (6C000173)	PSEN oplI3B-A-170-120- IOLS receiver (6C000117)	1200mm	6.5	36,5	11,7	41,7	PO106925C V1.1 PO106952T_v1.1
PSEN oplI3B-A-170-150-IOLS (6C000050)	PSEN oplI3B-A-170-150-IOLS emitter (6C000174)	PSEN oplI3B-A-170-150- IOLS receiver (6C000118)	1500mm	6.7	36,7	11,7	41,7	PO106925C V1.1 PO106952T_v1.1



2.4 Anmerkung Advanced / Comment Advanced

2.4.1 Version Advanced / Version Advanced

Tx Sender

System	Software			
1.0	Gesamt	SignalProcessor	AppControl	SafetyOS
	4.2	6.9	3.4.2	1.0.1

Rx Empfänger

System	Software			
1.0	Gesamt	SignalProcessor	AppControl	SafetyOS
	01.00.04	01.00.01	01.00.04	4.0.0

3 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 24mm (632038)	Prüfstab für Sicherheitslichtgitter mit Fingerschutz, reduzierte Auflösung Ø 24mm Test piece for safety light grid for finger protection, reduced resolution, Ø 24mm	-
PSEN opII Testpiece 30mm (632019)	Prüfstab für Sicherheitslichtgitter mit Handschutz, Ø 30mm Test piece for safety light grid for hand protection, Ø 30mm	-
PSEN opII Testpiece 34mm (632039)	Prüfstab für Sicherheitslichtgitter mit Handschutz, Ø 34mm Test piece for safety light grid for hand protection, Ø 34mm	-
PSEN opII lockout (632510)	Mechanische Schutteinrichtung zum gesicherten Unterbrechen des Schutzfeldes, abschließbar Mechanical protective device for a secure interruption of the protective field, lockable	717505856, V1.5 PO96268T, V1.0
PSEN opII muting box (6C000181)	Verdrahtungshilfe für PSEN opII Sicherheitslichtgitter Wiring assistance for PSEN op safety light curtain	717505856 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	717505856 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	717505856 V1.9 PO99039T, V1.0



4 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 Basic PSEN opII3F-s, PSEN opII3H-s, PSEN opII3B-s	3	d	2,0E-07	2
Control of safety outputs Advanced PSEN opII3F-A, PSEN opII3H-A, PSEN opII3B-A	3	d	2,0E-07	2

	Freigabe Prüfstelle: Release by Test Body:	Freigabe Zertifizierstelle: Release by Certification Body:
Datum: Date:	2026-07-29	2026-07-29
Unterschrift: Signature:	 Wolfgang Mayer 2026.07.29 17:35:47 +02'00'	 Matthias Ramold 2026.07.30 17:18:46 +02'00'