

EC-Type Examination Certificate

No. M6A 020132 0217 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 4)**

Model(s): **PSEN op4B /1-Series**

Parameters:

Supply Voltage:	24 $\pm$ 20% Vdc
Resolution:	14mm, 30mm or 2, 3, 4 beams
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 PO87753C 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.: PO87753C

Valid until: 2028-08-15

Date, 2023-12-19



(Guido Neumann)



Product Service

CERTIFICATE

No. Z10 020132 0209 Rev. 02

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 4)**

Model(s): **PSEN op4B /1-Series**

Parameters:

Supply voltage:	24 $\pm$ 20% Vdc
Resolution:	14mm, 30mm or 2, 3, 4 beams
Protection class:	IP65

The product fulfills the requirements according to the below standards. The report listed below is a mandatory part of the certificate.

**Tested
according to:**

2006/42/EC
EN IEC 61496-1:2020 (Type 4)
EN IEC 61496-2:2020 (Type 4)
EN ISO 13849-1:2015 (Cat.4, PL e)
EN 61508-1:2010 (SIL3)
EN 61508-2:2010 (SIL3)
EN 61508-3:2010 (SIL3)
EN 61508-4:2010 (SIL3)
EN IEC 62061:2021 (maximum SIL 3)

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.: PO87753C
Valid until: 2028-08-15

Date, 2023-12-15


(Thomas Kreten)



**Liste der Varianten
der berührungslos wirkenden Schutzeinrichtung (BWS)
PSEN op4
(Type 4 / EN 61496)**

**List of variants
of electro-sensitive protective equipment
PSEN op4
(Type 4 / EN 61496)**

Hersteller / Manufacturer:

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

Bericht-Nr. / Report no:

PO87753C

Revision 1.1

2023-12-14

**Prüfstelle für Sicherheitskomponenten /
Testing Laboratory for Safety Components:**

TÜV SÜD Rail GmbH
Rail Automation
Barthstraße 16
D-80339 München

Zertifizierungsstelle / Certification Body

TÜV SÜD Product Service GmbH
Ridlerstraße 65
D-80339 München

**Inhalt / content:****Seite / Page**

1	PSEN op4 -S /1 - Series	3
2	PSEN op4 -A- /1 - Series.....	4
3	PSEN op4 /1 - Series.....	5
4	Sicherheitskennzahlen / Safety-related characteristics.....	6

Änderungshistorie / Change history:

Version	Name	Datum / Date	Änderungen / Changes
1.0	Thomas Kreten	2015-10-30	Initial / initial release
1.1	Franz Seika	2023-12-14	Update of certificate to latest revision of standards

Änderungen zur Vorgängerversion / Changes to the previous version:

Kapitel Chapter	Baugruppe Device	Version Alt / Old	Version Neu / New
-	-	-	-

1 PSEN op4 -S /1 - Series

<i>Typ Type</i>	<i>Sach-Nr. Order No.</i>	<i>Länge Lenth</i>	<i>Schutz Protection</i>	<i>Auflösung Resolution</i>	<i>Beam *</i>	<i>Feature *</i>	<i>Prüfbericht Test- Report</i>
PSEN OP4F-S-14-015/1	630740	15 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-030/1	630741	30 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-045/1	630742	45 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-060/1	630743	60 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-075/1	630744	75 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-090/1	630745	90 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-105/1	630746	105 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-120/1	630747	120 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-135/1	630748	135 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-150/1	630749	150 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-165/1	630750	165 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4F-S-14-180/1	630751	180 cm	Finger	14 mm	L	--	PO101351T
PSEN OP4H-S-30-015/1	630760	15 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-030/1	630761	30 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-045/1	630762	45 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-060/1	630763	60 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-075/1	630764	75 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-090/1	630765	90 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-105/1	630766	105 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-120/1	630767	120 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-135/1	630768	135 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-150/1	630769	150 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-165/1	630770	165 cm	Hand	30 mm	L	--	PO101351T
PSEN OP4H-S-30-180/1	630771	180 cm	Hand	30 mm	L	--	PO101351T

2 PSEN op4 -A- /1 - Series

<i>Typ Type</i>	<i>Sach-Nr. Order No.</i>	<i>Länge Lenth</i>	<i>Schutz Protection</i>	<i>Auflösung Resolution</i>	<i>Beam *</i>	<i>Feature *</i>	<i>Prüfbericht Test- Report</i>
PSEN op4F-A-14-030/1	631000	30 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-045/1	631001	45 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-060/1	631002	60 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-075/1	631003	75 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-090/1	631004	90 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-105/1	631005	105 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-120/1	631006	120 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-135/1	631007	135 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-150/1	631008	150 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-165/1	631009	165 cm	Finger	14 mm	L	A	PO101351T
PSEN op4F-A-14-180/1	631010	180 cm	Finger	14 mm	L	A	PO101351T
PSEN op4H-A-30-030/1	631020	30 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-045/1	631021	45 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-060/1	631022	60 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-075/1	631023	75 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-090/1	631024	90 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-105/1	631025	105 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-120/1	631026	120 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-135/1	631027	135 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-150/1	631028	150 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-165/1	631029	165 cm	Hand	30 mm	L	A	PO101351T
PSEN op4H-A-30-180/1	631030	180 cm	Hand	30 mm	L	A	PO101351T

3 PSEN op4 /1 - Series

<i>Typ Type</i>	<i>Sach-Nr. Order No.</i>	<i>Länge Lenth</i>	<i>Length of Sensitive Area</i>	<i>Schutz Protection</i>	<i>Beam *</i>	<i>Feature *</i>	<i>Prüfbericht Test- Report</i>
PSEN op4B-2-050/1	630800	615 mm	515 mm	Body	2	--	PO101351T
PSEN op4B-3-080/1	630801	915 mm	815 mm	Body	3	--	PO101351T
PSEN op4B-4-090/1	630802	1016 mm	915 mm	Body	4	--	PO101351T
PSEN op4B-4-120/1	630803	1316 mm	1215 mm	Body	4	--	PO101351T
PSEN op4B-L-050/1	630808	615 mm	515 mm	Body	L	--	PO101351T
PSEN op4B-L-080/1	630809	915 mm	815 mm	Body	L	--	PO101351T
PSEN op4B-T-050/1	630810	615 mm	515 mm	Body	T	--	PO101351T
PSEN op4B-T-080/1	630811	915 mm	815 mm	Body	T	--	PO101351T



4 Sicherheitskennzahlen / Safety-related characteristics

Sicherheitstechnische Kenndaten der Sicherheitsausgänge Safety-related characteristics of the safety outputs					
Sicherheitsfunktion Safety function	Kategorie Category	PL	PFH _D	SIL CL	T _{mission} Jahre/years
Control of safety outputs	4	e	$7,89 \times 10^{-09}$	3	20

	Freigabe Prüfstelle: Release by Testing Laboratory :	Freigabe Zertifizierstelle: Release by Certification Body:
Datum: Date:		Thomas
Unterschrift: Signature:	 Digital unterschrieben von Franz Seika Datum: 2023.12.14 11:53:27 +01'00'	 Kreten 2023.12.18 09:25:51 +01'00'