



Product Service

# EC-Type Examination Certificate

No. M6A 020132 0282 Rev. 02

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

Felix-Wankel-Str. 2  
73760 Ostfildern  
GERMANY

**Product:** **Electro-Sensitive Protective Equipment**

**Model(s):** **PSEN scan**

**Parameters:**

|                        |                         |
|------------------------|-------------------------|
| Operating temperature: | -10°C ... +50°C         |
| Power supply:          | 24Vdc (19.2V ... 30Vdc) |
| Max. range:            | 3.0/5.5m                |
| Detection capability   | 40/70mm                 |
| Min. response time     | 62ms                    |

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 PO94048C 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](http://www.tuvsud.com/ps-cert)

**Test report no.:** PO100578T

**Valid until:** 2028-01-31

**Date,** 2023-03-24

( Peter Weiß )

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TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®



Product Service

# CERTIFICATE

No. Z10 020132 0281 Rev. 02

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

Felix-Wankel-Str. 2  
73760 Ostfildern  
GERMANY

**Certification Mark:**



**Product:** **Electro-Sensitive Protective Equipment**

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](http://www.tuvsud.com/ps-cert)

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|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Tested according to:</b>       | EN IEC 61496-3:2019 (Type 3)      |
|                                   | EN IEC 61496-1:2020 (Type 3)      |
|                                   | EN ISO 13849-1:2015 (Cat 3, Pl d) |
|                                   | IEC 61508-1:2010 (SIL2)           |
|                                   | IEC 61508-2:2010 (SIL2)           |
|                                   | IEC 61508-3:2010 (SIL2)           |
| EN IEC 62061:2021 (maximum SIL 2) |                                   |

**Model(s):** PSEN scan



Rail

# Liste der Varianten der berührungslos wirkenden Schutzeinrichtung (BWS)

List of variants  
of electro-sensitive protective equipment (ESPE)

## PSEN scan

Hersteller / Manufacturer:

Pilz GmbH & Co. KG

Felix-Wankel-Straße 2

D-73760 Ostfildern

Germany

Bericht-Nr. / Report No.: **PO94048C**

Revision: **2.0**

Datum / Date: **24.03.2023**

Testlabor für Sicherheitskomponenten / Testing Laboratory for Safety Components:

TÜV SÜD RAIL GmbH

Rail Automation

Barthstraße 16

D-80339 München



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**Inhalt / content:**

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**Änderungshistorie / Change history:**

**Änderung / Changes:**

| Revision | Name / name   | Datum / date | Änderungen / Changes              |
|----------|---------------|--------------|-----------------------------------|
| 1.0      | Thomas Kreten | 18.07.2019   | Initial / initial release         |
| 1.1      | Thomas Kreten | 23.07.2019   | Correction of Order Numbers       |
| 1.2      | Thomas Kreten | 18.02.2020   | Addition of PSEN sc M 5.5 08-17   |
| 1.3      | Thomas Kreten | 09.06.2020   | Update to Rev 1.6 of tech. Report |
| 1.4      | Thomas Kreten | 28.07.2020   | Added Manual                      |
| 1.5      | Thomas Kreten | 04.12.2020   | Updated FW                        |
| 1.6      | Thomas Kreten | 20.01.2021   | Updated FW                        |
| 1.7      | Thomas Kreten | 03.02.2022   | Updated FW                        |
| 1.8      | Thomas Kreten | 08.02.2022   | Updated FW                        |
| 1.9      | Franz Seika   | 12.10.2022   | Updated FW                        |
| 2.0      | Thomas Kreten | 22.03.2023   | New format of report              |

**Änderungen zur Vorgängerversion / Changes to the previous version:**

**Änderung / Changes:**

| Kapitel / Chapter | Baugruppe / Device              | Version Alt / previous version | Version Neu / new version |
|-------------------|---------------------------------|--------------------------------|---------------------------|
| 4                 | All Models except PSEN sc B 5.5 | 3.1.5.xxx                      | 3.1.6.764                 |



Rail

## 1 PSEN scan - Autonomics

| Typ<br>Type         | Beschreibung<br>Description | Sach-Nr.<br>Order No. |
|---------------------|-----------------------------|-----------------------|
| PSEN sc B 5.5       | Stand alone Light           | 6D000001              |
| PSEN sc L 3.0 08-12 | Stand alone Light 3.0m      | 6D000012              |
| PSEN sc L 5.5 08-12 | Stand alone Light 5.5m      | 6D000013              |

## 2 PSEN scan - Masters

| Typ<br>Type          | Beschreibung<br>Description                       | Sach-Nr.<br>Order No. |
|----------------------|---|-----------------------|
| PSEN sc M 3.0 08-12  | Master 3.0m                                       | 6D000016              |
| PSEN sc M 5.5 08-12  | Master 5.5m                                       | 6D000017              |
| PSEN sc M 5.5 08-17  | Master 5.5 m 70 Zone Enhanced                     | 6D000019              |
| PSEN sc ME 5.5 08-17 | Master, 5,5m, 70 Zone, Enhanced, 4 Encoder inputs | 6D000034              |

## 3 PSEN scan - Slaves

| Typ<br>Type         | Beschreibung<br>Description | Sach-Nr.<br>Order No. |
|---------------------|-----------------------------|-----------------------|
| PSEN sc S 3.0 08-12 | Subscriber 3.0m             | 6D000020              |
| PSEN sc S 5.5 08-12 | Subscriber 5.5m             | 6D000021              |

## 4 PSENscan - Safety Software

| PSENscan Model | Description | Software Version                                 |
|----------------|-------------|--|
| PSEN sc B 5.5  | Stand Alone | 1.0.0.178  |
| All others     | All others  | 3.1.3.628<br>3.1.3.649<br>3.1.5.xxx<br>3.1.6.764 |



Rail

## 5 Mitgeltende Dokumente / Co-Applicable Documents

| Typ<br>Type | Titel / Title                    | Sach-Nr.<br>Order No. |
|-------------|----------------------------------|-----------------------|
| Manual      | Bed.anl. PSEN sc B 5-Serie       | 1004508               |
| Manual      | Bed.anl. PSEN sc L/M 3/5-Serie   | 1005317               |
| Manual      | Bed.anl. PSEN sc L               | 1005056               |
| Manual      | Bed.anl. PSEN sc M               | 1005055               |
| Manual      | Bed.anl. PSEN sc M 5.5 08-17     | 1005387               |
| Manual      | Bed.anl. PSEN sc L 3.0/5.5 08-17 | 1005419               |
| Manual      | Bed.anl. PSEN sc ME 5.5 08-17    | 1005388               |

## 6 Zubehör / Accessories

Für diese Produkte wurde die Rückwirkungsfreiheit mit den sicherheitsgerichteten Modulen des PSENscan nachgewiesen.  
For these products, the absence of interaction with the safety-related modules of PSENscan was proven.

### 6.1 PSEN scan - Configurator

| Typ<br>Type           | Version     | Beschreibung<br>Description                      |
|-----------------------|-------------|--|
| PSENscan Configurator | min. V3.1.1 | Konfigurationssoftware<br>Configuration software |

### 6.2 Memory Blocks

| Typ<br>Type          | VerSach-Nr.<br>Order No.sion | Beschreibung<br>Description    |
|----------------------|------------------------------|--------------------------------|
| PSEN sc memory 08-17 | 6D000005                     | Exchangable memory-block 08-17 |
| PSEN sc memory 08-12 | 6D000006                     | Exchangable memory-block 08-12 |

### 6.3 Miscellaneous

| Typ<br>Type     | Sach-Nr.<br>Order No. | Beschreibung<br>Description                      |
|-----------------|-----------------------|--|
| PSEN sc head    | 6D000007              | Ersatz für Kopfteil<br>Replacement for head part |
| PSEN sc cleaner | 6D000008              | Reinigungsmittel (flüssig)<br>cleaner (liquid)   |
| PSEN sc cloth   | 6D000009              | Reinigungstuch<br>cleaning cloth                 |



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## 6.4 PSEN scan - Brackets

| Typ<br>Type        | Sach-Nr.<br>Order No. | Beschreibung<br>Description  |
|--------------------|-----------------------|--|
| PSEN sc bracket PR | 6D000002              | Montagehalterung zur Neige- und Rollwinkeleinstellung<br>Bracket for pitch and roll regulation |
| PSEN sc bracket P  | 6D000003              | Montagehalterung zur Neigewinkeleinstellung<br>Bracket for pitch regulation                    |
| PSEN sc bracket H  | 6D000004              | Zubehör zum Schutz des Kopfteils<br>Head protective bracket                                    |
| PSEN sc bracket F  | 6D000010              | Montagehalterung für Bodenmontage<br>Bracket for floor mounting                                |
| PSEN sc bracket C  | 6D000011              | Montagehalterung für Eckmontage Außenkante<br>Bracket for corner mounting outer edge           |

## 7 Sicherheitskennzahlen / Safety-related characteristics

| Sicherheitsfunktion<br>Safety function | Kategorie<br>Category | PL | PFH <sub>D</sub>         | SIL CL | T <sub>mission</sub><br>Jahre / Years |
|--|-----------------------|----|--------------------------|--------|---------------------------------------|
| Control of safety outputs              | 3                     | d  | 6,38 x 10 <sup>-08</sup> | 2      | 20                                    |

### Fußnote / Footnote

#### 1) Sicherheitsmerkmal / Safety characteristics:

|                  |  |
|------------------|--|
| <b>SIL:</b>      | Safety Integrity Level entsprechend EN / IEC 61508 / Safety Integrity Level according EN / IEC 61508           |
| <b>Cat / PL:</b> | Kategorie und Performance Level entsprechend EN 13849-1 / Category and Performance Level according EN 13849-1. |

|                             | Freigabe Testlabor für<br>Sicherheitskomponenten:<br>Release by Testing Laboratory for Safety<br>Components:                    | Freigabe Zertifizierstelle:<br>Release by Certification Body:   |
|-----------------------------|---|---|
| Datum:<br>Date:             | Digital<br>unterschrieben<br>von Thomas<br>Kreten   | Digital<br><del>unterschrieben</del>  |
| Unterschrift:<br>Signature: | <br>Datum:<br>2023.03.24<br>12:49:50 +01'00' | <br>von Peter Weiß<br>Datum: 2023.03.24<br>13-07-14 +01'00' |