

# Certificate of Compliance

**Certificate Number:**

E528430

**Report Reference:**

E528430 - 20220620

**Issue Date:**

2024-02-07

Issued to:

**Pilz GmbH & Co. KG**

**Felix-Wankel-Strasse 2**

**Ostfildern, 73760, DE**

This certificate confirms that representative samples of:

**PROTECTIVE DEVICES RESPONSIVE TO DIFFUSE  
REFLECTION OF RADAR**

**See Addendum Page for Models**

Has been evaluated by UL LLC in accordance with Standard(s) for  
Safety:

**See Addendum for Standards**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional  
information.

This Certificate of Compliance indicates that representative samples of  
the product described in the certification report have met the  
requirements for UL certification. It does not provide authorization to  
apply the UL Mark. Only the Authorization Page that references the  
Follow-Up Services Procedure for ongoing surveillance provides  
authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as  
being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



David Piecuch

UL Mark Certification Program Owner



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

# Certificate of Compliance

**Certificate Number:** E528430  
**Report Reference:** E528430 - 20220620  
**Issue Date:** 2024-FEBUARY-07

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

## Standards of Safety:

UL 61010-1 UL Standard for Safety for Electrical Equipment For Measurement, Control, and Laboratory Use – Part 1  
CAN/CSA 61010-1 Standard for Safety for Electrical Equipment For Measurement, Control, and Laboratory Use – Part 1  
IEC 61496-1 Electro-Sensitive Protective Equipment, Part 1: General Requirements and Tests  
UL 61496-1 Electro-Sensitive Protective Equipment, Part 1: General Requirements and Tests  
IEC 61496-3 Safety of machinery – Electro-sensitive protective equipment – Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR)  
CRD of IEC 61496-3 Certification Requirement Decision - Additional Considerations for Protective Devices Responsive to Diffuse Reflection of Radar (PDRDRR)  
UL 1998 STANDARD FOR SOFTWARE IN PROGRAMMABLE COMPONENTS  
IEC 62061 IEC 62061 Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems  
IEC 61508-2 Functional Safety of Electrical / Electronic / Programmable Electronic Safety-Related Systems, Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems  
IEC 61508-3 Functional Safety of Electrical / Electronic / Programmable Electronic Safety-Related Systems, Part 3: Software Requirements  
ISO 13849-1 Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design  
ISO 13849-2 ISO 13849-2 Safety of machinery - Safety-related parts of control systems - Part 2: Validation

**Type 3 radar-based protective device, Models:** PSEN rd1.1, PSEN rd1.2, PSEN rd1.2 F-FOV, PSEN rd1.2 F-FOV LR, PSEN rd1.x I/O PN, PSEN rd1.x I/O, PSEN rd1.x I/O FSoE, PSEN rd1.x SD I/O PN, PSEN rd1.x SD I/O FSoE, PSEN rd1.x SD I/O