

CERTIFICATE OF COMPLIANCE

Certificate Number 20170828-E250855
Report Reference E250855-20170807
Issue Date 2017-AUGUST-28

Issued to: WENGLOR SENSORIC GMBH
WENGLOR STRASSE 3
88069 TETTANG GERMANY

**This is to certify that
representative samples of**

ACTIVE OPTO-ELECTRONIC PROTECTIVE DEVICES
ACTIVE OPTO-ELECTRONIC PROTECTIVE DEVICES,

Type 4 Light Curtain
Series SEMG, followed by 4, 5, or 6, followed by XX, where
XX is 12-22, 31 through 42, 52-62, or 71-82.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: See addendum for standards.

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



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ANSI/UL 1998, Software in Programmable Components.
CSA C22.2 NO. 14-13 - INDUSTRIAL CONTROL EQUIPMENT
UL 508 - STANDARD FOR INDUSTRIAL CONTROL EQUIPMENT
UL 61496-2 - STANDARD FOR ELECTRO-SENSITIVE PROTECTIVE EQUIPMENT, PART 2: PARTICULAR REQUIREMENTS FOR EQUIPMENT USING ACTIVE OPTO-ELECTRONIC PROTECTIVE DEVICES (AOPDS)
IEC 61508-3 - Functional Safety of Electrical / Electronic / Programmable Electronic Safety-Related Systems
UL 61496-1 - Electro-sensitive Protective Equipment – Part 1: General Requirements and Tests
ISO 13849-1 - Safety of Machinery – Safety-related Parts of Control Systems – Part 1: General Principles for Design



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CERTIFICATE OF COMPLIANCE

Certificate Number E250855
Report Reference E250855-20201026
Date 2020-November-07

Issued to: wenglor sensoric GmbH
wenglor Strasse 3
Tettngang88069 DE

**This is to certify that
representative samples of**

ACTIVE OPTO-ELECTRONIC PROTECTIVE DEVICES
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: See Addendum.

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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CERTIFICATE OF COMPLIANCE

Certificate Number E250855
Report Reference E250855-20201026
Date 2020-November-07

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

ACTIVE OPTO-ELECTRONIC PROTECTIVE DEVICES,

Type 4 Light Curtain

Series SEFB, followed by 4, 5, or 6, followed by 12, 13, 14, 22, 23 or 24.

Series SEFG, followed by 4, 5, or 6, followed by 11-22, 31-42, 51-62 or 71-82.

Standard(s) for Safety:

UL 1998, SOFTWARE IN PROGRAMMABLE COMPONENTS.

ISO 13849-1 SAFETY OF MACHINERY SAFETY-RELATED PARTS OF CONTROL SYSTEMS
PART 1: GENERAL PRINCIPLES FOR DESIGN.

ISO 13849-2, SAFETY OF MACHINERY - SAFETY-RELATED PARTS OF CONTROL SYSTEMS -
PART 2: VALIDATION.

IEC 61508-1, FUNCTIONAL SAFETY OF ELECTRICAL/ELECTRONIC/ PROGRAMMABLE
ELECTRONIC SAFETY-RELATED SECURITY SYSTEMS. PT. 1, GENERAL REQUIREMENTS.

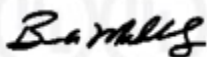
IEC 61508-3, FUNCTIONAL SAFETY OF ELECTRICAL/ELECTRONIC/ PROGRAMMABLE
ELECTRONIC SAFETY-RELATED SECURITY SYSTEMS. PT. 3, SOFTWARE REQUIREMENTS.

IEC 61496-1, SAFETY FOR ELECTRO-SENSITIVE PROTECTIVE EQUIPMENT, PART 1:
GENERAL REQUIREMENTS AND TESTS.

UL 61496-1, ELECTRO-SENSITIVE PROTECTIVE EQUIPMENT – PART 1: GENERAL
REQUIREMENTS AND TESTS.

UL 508 and CSA C22.2 No. 14, Industrial Control Equipment.

UL 61496-2 and IEC 61496-2, Electro-sensitive protective Equipment – Part 2: Particular
Requirements for equipment using active opto-electronic protective devices (AOPDs).



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L250855-11-03305002-1
Report Reference E250855-20050330
Date 12-Apr-2022

Issued to: wenglor sensoric GmbH
wenglor Strasse 3 Tett nang 88069
Germany

This is to certify that representative samples of NIPF - Active Opto-electronic Protective Devices
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Ansi/UL 61496-1/2, Electro-Sensitive Protective Equipment,
ANSI/UL1998, Software in Programmable Components

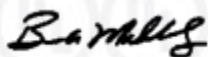
Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

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Look for the UL Certification Mark on the product.

UL US L250855-11-0330-002-1
E250855-20050330



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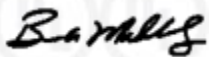


CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L250855-11-03305002-1
Report Reference E250855-20050330
Date 12-Apr-2022

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

Model	Category Description
SG2, followed by 14, followed by IE or IS, followed by 015, 030, 045, 060, 075, 090 or 105, followed by c1.	Type 2 light curtains
SG2, followed by 30, followed by IE or IS, followed by 015, 030, 045, 060, 075, 090, 105, 120, 135, 150, 165 or 180, followed by c1.	Type 2 light curtains
SG4, followed by 14, followed by IE or IS, followed by 015, 030, 045, 060, 075, 090 or 105, followed by c1.	Type 4 light curtains
SG4, followed by 30, followed by IE or IS, followed by 015, 030, 045, 060, 075, 090, 105, 120, 135, 150, 165 or 180, followed by c1.	Type 4 light curtains



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L250855-21-03305002-0
Report Reference E250855-20050330
Date 12-Apr-2022

Issued to: wenglor sensoric GmbH
wenglor Strasse 3 Tett nang 88069
Germany

**This is to certify that
representative samples of**

NIPF7 - Active Opto-electronic Protective Devices Certified
for Canada

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: Ansi/UL 61496-1/2, Electro-Sensitive Protective Equipment,
ANSI/UL1998, Software in Programmable Components

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B. Mahlenz

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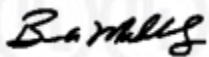


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Model	Category Description
SG2, followed by 14, followed by IE or IS, followed by 015, 030, 045, 060, 075, 090 or 105, followed by c1.	Type 2 light curtains
SG2, followed by 30, followed by IE or IS, followed by 015, 030, 045, 060, 075, 090, 105, 120, 135, 150, 165 or 180, followed by c1.	Type 2 light curtains
SG4, followed by 14, followed by IE or IS, followed by 015, 030, 045, 060, 075, 090 or 105, followed by c1.	Type 4 light curtains
SG4, followed by 30, followed by IE or IS, followed by 015, 030, 045, 060, 075, 090, 105, 120, 135, 150, 165 or 180, followed by c1.	Type 4 light curtains



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