

OPERATING AND INSTALLATION INSTRUCTIONS

ML-6-UFGE

ML-6-UFGE20M



Keep for future reference!

Schrempp electronic GmbH
Wiesenstrasse 5
D-65843 Sulzbach/Ts.

Phone +49 6196 802399-0
Fax +49 6196 802399-9
Email main@schrempp-electronic.de
Website www.schrempp-electronic.de

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1 Introduction

These Operating and Installation Instructions provide you with all the information you need for the smooth operation of the stainless steel machine light .

The Operation and Installation Manual must be read, understood, and followed by all persons responsible for the assembly/installation, transport, commissioning, operation, maintenance, cleaning, troubleshooting, decommissioning, disassembly, and disposal of the machine light . This applies in particular to the safety instructions listed.

After reviewing the Operating and Installation Manual , you will be able to:

- transport the stainless steel machine light in accordance with safety regulations,
- mount/install the stainless steel machine light in accordance with safety regulations,
- commission the stainless steel machine light in a safe manner,
- operate the stainless steel machine light in accordance with safety regulations,
- take the appropriate action if a malfunction occurs,
- maintain the stainless steel machine light in accordance with the instructions,
- clean the stainless steel machine light in accordance with the instructions,
- take the stainless steel machine light out of service in accordance with safety regulations,
- dismantle the stainless steel machine light in a safe manner,
- dispose of the stainless steel machine light in accordance with regulations.

In addition to the , generally applicable, statutory, and other binding regulations regarding accident prevention and environmental protection in the country of use must be observed.

1.1 Illustrations

To provide guidance and direct warnings of hazards, text passages requiring special attention in this Operating and Installation Manual for the are marked as follows:

1.1.1 Section-Specific Warnings

Section-specific warnings apply not only to a specific action, but to all actions within a section.

Structure

! SIGNAL WORD	
 Symbol providing further explanation of the hazard	Type and source of the hazard! Possible consequence(s) of non-compliance! ► Measures to avoid the hazard.

Hazard levels

! DANGER	
	A hazard with a high degree of risk that, if not avoided, will result in death or serious bodily injury.
! WARNING	
	A hazard with a moderate level of risk that, if not avoided, may result in death or serious bodily injury.
! CAUTION	
	A hazard with a low level of risk that, if not avoided, may result in minor or moderate bodily injury.
NOTE	
	A hazard with a low level of risk that, if not avoided, may result in property damage.

1.1.2 Embedded warnings

Embedded warnings apply to specific actions and are directly integrated into the action.

Structure

⚠ SIGNAL WORD: Type and source of the hazard

Possible consequences of non-compliance

► Measures to Avoid the Hazard

Hazard Levels

- **⚠ DANGER/WARNING/CAUTION**
- **NOTE** (without warning triangle)

1.1.3 Other Symbols

i | The info symbol provides useful information.

- Text following this symbol is a list.
- Text that follows this symbol describes measures in warning notices and steps to take.
- a) Text that follows this symbol describes actions that must be performed in the specified order.
- “ ” Text in quotation marks refers to other chapters or sections.

1.1.4 Symbols Used in the Operating and Installation Instructions

In warning notices, specific hazards are additionally marked as follows:

Symbol	Description
Warning symbol	
	Warning: Risk of Hand Injuries This symbol warns of hand injuries.
	Warning: Obstacles on the Floor This symbol warns of tripping hazards caused by obstacles on the floor.
	Warning: Suspended Load This symbol warns of hazards when standing under suspended loads.

Symbol	Description
	Warning: Electrical Voltage This symbol warns of hazards caused by electrical voltage.
	Warning: Components Sensitive to Electrostatic Discharge This symbol warns of components that can be damaged by electrostatic discharge (ESD).
	Warning: Hot Surface This symbol warns of the risk of burns from hot surfaces.
Mandatory symbols	
	Follow the operating and installation instructions at This symbol indicates that you must follow the Operating and Installation Instructions .
	Wear safety shoes This symbol indicates that safety shoes must be worn in the work area.
	Wear hand protection This symbol indicates that hand protection must be worn in the work area.
	Wear protective work clothing This symbol indicates that protective work clothing must be worn in the work area.
	Use head protection This symbol indicates that head protection must be worn in the work area.
Hazard symbols	
	Warning: Substances Hazardous to the Environment This symbol warns of substances hazardous to the environment.
	Danger - Caution/Systemic Health Hazard This symbol warns of a systemic health hazard if inhaled or swallowed.
	Danger - Caution: Toxic (harmful to health)/Corrosive or irritating/Minor systemic health hazard This symbol warns of substances that are harmful to health.

Symbol	Description
Other symbols	
	Disposal Instructions This symbol indicates that the labeled product must not be disposed of with household waste.
	Recycling This symbol indicates that various materials should be returned to the recycling cycle.
	Qualified Electrician Required This symbol indicates tasks that may only be performed by a qualified electrician.
	Mechanical technician required This symbol indicates tasks that may only be performed by a qualified mechanic.
	CE marking CE marking: Product complies with essential EU requirements.
	Limited surface temperature DIN EN 60598-2-24:2014-04 For luminaires bearing this marking, the temperature on all surfaces of the luminaire that are exposed to dust accumulation must not exceed 90°C.
	Electrical safety class which ensures protection through **safety extra-low voltage** (SELV), with a maximum supply voltage of 50 V AC or 120 V DC.

1.2 Warranty and Liability

The obligations agreed upon in the sales contract, the General Terms and Conditions, the Terms of Delivery for the , and the legal regulations in effect at the time the contract was concluded shall apply.

All information and instructions in these Operating and Installation Instructions have been compiled in accordance with applicable standards and regulations, the state of the art, and our many years of knowledge and experience.

These Operating and Installation Instructions for are not intended as a substitute for determining the suitability or reliability of the for specific user applications and must not be used to determine its suitability or reliability.

The machine light may only be used for the applications described by the manufacturer. All other applications are improper and are considered dangerous. The manufacturer cannot be held liable for damages resulting from errors, unintentional, or improper use of the stainless steel machine light .

Warranty and liability claims for personal injury or property damage are excluded if they are attributable to one or more of the following causes:

- Use of the machine light that is not in accordance with its intended purpose or is improper,
- improper transport, assembly/installation, commissioning, operation, troubleshooting, maintenance/cleaning, decommissioning, disassembly, and disposal of the stainless steel machine light,
- operating the machine light with a defective housing,
- failure to follow the operating and installation instructions at as well as the instructions in the operating and installation manual at regarding the installation, commissioning, operation, maintenance, and cleaning of the stainless steel machine light ,
- Use of unqualified or untrained personnel,
- Structural modifications to the (Modifications or other alterations to the stainless must not be made without prior written approval from Schrempp electronic GmbH . Failure to comply will render the machine light unsuitable for use.),
- improperly performed repairs,
- use of unauthorized replacement parts or use of replacement parts that do not meet the specified technical requirements,
- disasters, impact from foreign objects, and force majeure.

Furthermore, Schrempp electronic GmbH reserves the right to revise this publication at any time due to technical changes made to improve performance and further development, without any obligation to inform others of such revisions.

1.3 Copyright

These operating and installation instructions, including all illustrations, are protected by copyright and are intended exclusively for internal use.

Any disclosure to third parties, duplication, translation, reproduction, electronic or photographic archiving, modification, or other use or communication of the content is prohibited without the prior written consent of Schrempp electronic GmbH. Violations will result in liability for damages; we reserve the right to assert further claims.

We reserve the right to make any changes necessary to advance the technology.

1.4 Warranty Provisions

The warranty provisions are contained in the General Terms and Conditions of Schrempp electronic GmbH.

1.5 Service/Customer Support



Our customer service department is available to provide technical information:

Phone: +49 6196 802399-0

In addition, our employees are constantly interested in new information and insights gained from product use that may be valuable for improving our products.

2 Safety

WARNING



Failure to follow the safety instructions below can have serious consequences:

Risk of injury to persons due to electrical, mechanical, or chemical factors; failure of critical functions; and environmental damage!

- ▶ Carefully read the safety and hazard warnings listed in this section before putting the stainless steel machine light into operation.
- ▶ In addition to the instructions in this operating and installation manual, also observe the generally applicable safety and accident prevention regulations.
- ▶ In addition to the instructions in this operating and installation manual, observe the applicable national labor, operational, and safety regulations. Also comply with any existing internal plant regulations.

2.1 Intended Use

The operational safety of the is guaranteed only if it is used as intended.

The machine light is intended exclusively for illuminating industrial machines, devices, or systems . Installation must be performed exclusively by trained specialists in control and automation technology who are familiar with the applicable national, regional, and local safety and accident prevention regulations.

The stainless steel machine light must be used exclusively within the limits of its technical specifications. Intended use also includes compliance with the technical specifications, adherence to the operating and installation instructions, compliance with maintenance and servicing regulations, and compliance with applicable national safety, occupational safety, and accident prevention regulations. Any operation beyond these limits is considered improper use.

The specified maximum technical data must not be exceeded. The devices are suitable for indoor and outdoor use within the scope of the specified protection class and are intended solely for permanent installation. The machine lights are not intended for installation in aircraft or spacecraft or for any use other than those listed here, and such use is considered improper. In particular, it is prohibited to:

- use defective or unsuitable accessories,
- operate the stainless steel machine light in a potentially explosive atmosphere,
- to operate the stainless steel machine light if it is not ready for operation or has been modified,
- Placing objects on the stainless steel machine light . Remove all objects from the machine light ,
- operate the stainless steel machine light if the housing or glass front is damaged,

- For lights, the temperature on all surfaces of the light that are exposed to dust accumulation must not exceed 90°C.
- Open the stainless steel machine light for maintenance work.
- Operate the stainless steel machine light if the safety and warning labels have been removed or are illegible,
- to operate the stainless steel machine light if it has been installed incorrectly. Incorrect installation of the mechanical or electrical connections can result in personal injury or property damage,
- operating the stainless steel machine light if the cables are damaged. Damage to cables can result in personal injury and property damage,
- operating the machine light if the vibration and temperature limits are not observed. Failure to observe the vibration and temperature limits can result in personal injury and property damage,
- failing to store and transport the stainless steel machine light in accordance with the manufacturer's specifications. Improper storage and transport can result in personal injury and property damage.

Intended use also includes:

- Following all instructions in the operating and installation manual,
- adhering to the inspection intervals in accordance with the applicable machine directives, if any
- using operating materials and consumables in accordance with applicable safety regulations,
- compliance with national, regional, and local safety and accident prevention regulations,
- compliance with the operating conditions,

The technical specifications listed in the technical data must be adhered to without exception.



► Use the stainless steel machine light only as intended; otherwise, safe operation cannot be guaranteed.

► Follow the instructions on the nameplate.

The operator of the —not the manufacturer—is responsible for any personal injury or property damage resulting from improper use!

2.1.1 Note on the Installation of the Stainless Steel Machine Light

Installation must be performed exclusively by trained specialists in control and automation technology who are familiar with the applicable national, regional, and local safety and accident prevention regulations.

The stainless steel machine light is intended for installation in a machine, system, or device; therefore, the control system is specified by the machine, system, or device or is built into it.

The stainless steel machine light may only be put into operation once it has been determined that the machine, system, or device into which the machine light is to be installed complies with all safety requirements of the Machinery Directive 2006/42/EC and other applicable directives and standards.

It is the responsibility of the manufacturer or distributor to conduct an appropriate and comprehensive risk assessment, evaluation, and testing of the with regard to the specific application or use in question.

In emergencies, it is recommended to follow and apply the procedures outlined in the operating and maintenance manual for the machine, system, or device on which the stainless steel machine light is installed.

- During maintenance work, secure the stainless steel machine light against unexpected restarting on the machine, system, or device in which the stainless steel machine light is installed.

2.1.2 Structural modifications to the machine light

Design and manufacturer approval are based on the General Product Safety Regulation. Without prior written approval from Schrempp electronic GmbH, no modifications, additions, or alterations may be made to the stainless steel machine light.

Failure to comply will render the stainless steel machine light unsuitable for use. The manufacturer of the stainless steel machine light is hereby released from any warranty obligations.

Replace any devices that are not in perfect working order immediately.

Use only original replacement parts, wear parts, and accessories. These parts are specifically designed for the stainless steel machine light. For parts sourced from third parties, there is no guarantee that they are designed and manufactured to meet the required performance and safety standards.

Parts and optional equipment not supplied by Schrempp electronic GmbH are not approved for use with the stainless steel machine light.

2.1.3 Foreseeable Misuse

Any use of the that goes beyond its intended purpose and/or is otherwise improper may result in serious injury.

- ▶ Use the stainless steel machine light only as intended.
- ▶ Use the stainless steel machine light only if it has been properly maintained and inspected.
- ▶ Do not use the stainless steel machine light outside the environmental conditions (temperature, humidity, protection class) specified in the Technical Data section.
- ▶ For lights marked with a "D," the temperature on all surfaces of the light that are exposed to dust accumulation must not exceed 90°C.
- ▶ Do not operate the stainless steel machine light without proper, secure mounting or with loose fasteners.
- ▶ Do not connect the stainless steel machine light to a power supply that does not meet the specifications. When used in North America (U.S./Canada), use only a 24V / Class 2 power supply.
- ▶ Do not operate the stainless steel machine light in potentially explosive atmospheres unless it has the appropriate ATEX certification.
- ▶ Do not look directly at the illuminated LED surface from a close distance.
- ▶ Do not perform any unauthorized repairs, modifications, or alterations to the stainless steel machine light .

2.2 Personnel Requirements

The stainless steel machine light may only be transported, assembled, installed, commissioned, maintained, cleaned, repaired, decommissioned, inspected, disassembled, or disposed of by persons who are qualified and/or trained to do so. If the personnel in question do not already possess the necessary knowledge and skills, appropriate training and instruction must be provided. All local regulations must be followed.

These individuals must be familiar with the Operating and Installation Instructions and act in accordance with them. The respective authorizations of the personnel must be clearly defined.

Persons with limited physical, sensory, or mental abilities, or who lack experience and knowledge, must be supervised or instructed in the safe use of the stainless steel machine light and must understand the associated hazards.

The " " () lists the following qualifications for various areas of work:

2.2.1 Personnel Requiring Training

Personnel requiring training, such as apprentices or temporary workers, are not familiar with all the hazards that may arise during the operation of the machine light . They may only perform work on the machine light under the supervision of qualified or trained personnel.

2.2.2 Trained Personnel

Trained personnel have received instruction from the operator or from qualified personnel regarding the tasks assigned to them and the potential hazards associated with improper conduct.

2.2.3 Qualified Personnel

Qualified personnel, based on their technical training, knowledge, and experience, as well as their familiarity with the relevant regulations, are capable of performing the tasks assigned to them and of independently identifying and avoiding potential hazards.

2.2.4 Certified Electrician

A qualified electrician is capable, based on their technical training, knowledge, and experience, as well as their knowledge of the relevant standards and regulations, of performing work on electrical equipment and independently identifying and avoiding potential hazards.

The qualified electrician is trained for the specific work site where they are employed and is familiar with the relevant standards and regulations.

2.2.5 Responsibilities

Improper handling can result in significant personal injury and property damage.

- Only personnel who can be expected to perform their work reliably are authorized to work on this equipment. No one whose reaction time is impaired by drugs, alcohol, medication, or similar substances may install or connect the .
 - All persons performing work on the machine light must read the operating and installation instructions and confirm with their signature that they have understood them.
 - Trainees may initially perform work on the stainless steel machine light only under the supervision of qualified personnel. Completion and successful completion of training must be confirmed in writing.
- Observe the personnel requirements for the various life phases/operating modes.

Personnel Requirements	Life Cycle Phase/Operating Mode
Qualified technical personnel, certified electrician	Transport, installation, commissioning, troubleshooting, maintenance, decommissioning, disassembly, disposal

The operator is responsible for training the personnel.

2.2.6 Personnel Responsibilities

All persons tasked with the installation and commissioning of the agree, prior to commencing their work, to:

- To observe the basic regulations on occupational safety and accident prevention,
- to read the safety instructions and warnings in this Operating and Installation Manual and to confirm with their signature that they have understood them.

2.2.7 Unauthorized Persons

Unauthorized persons who do not meet the qualification requirements for personnel are not aware of the hazards in the work area.

- ▶ Keep unauthorized persons away from the work area.
- ▶ If in doubt, speak to the individuals and direct them to leave the work area.
- ▶ Stop work as long as unauthorized persons are in the work area.

2.3 Basic Safety Instructions

- ▶ The stainless steel machine light may only be put into operation and maintained after you have read these operating and installation instructions.
- ▶ Use the stainless steel machine light only as intended.
- ▶ When operating the stainless steel machine light , avoid any practices that compromise the safety of persons or the machine light .
- ▶ Always keep the area where the stainless steel machine light is used clean and tidy.
- ▶ Operate the stainless steel machine light only within its technical specifications.
- ▶ Keep all safety and hazard warnings on the stainless steel machine light legible and replace them as needed.
- ▶ Work on the stainless steel machine light may only be performed by qualified or trained personnel.
- ▶ In the event of malfunctions, immediately take the stainless steel machine light out of service.
- ▶ It must be ensured that all persons performing work on the stainless steel machine light have access to the operating and installation instructions at all times.

2.4 Safety Measures for Environmental Protection

- ▶ Comply with regulations regarding waste prevention and proper waste recycling or disposal during all work.

2.5 Special Hazard Warnings/Residual Hazards

2.5.1 Symbols used on the stainless steel machine light

Symbol	Description	Location
	Warning: Electrical Voltage This symbol warns of hazards caused by electrical voltage.	Quick Guide, User Manual
	Warning: Components Sensitive to Electrostatic Discharge This symbol warns of components that can be damaged by electrostatic discharge (ESD).	Quick Guide, User Manual
	Warning: Hot Surface This symbol warns of the risk of burns from hot surfaces.	Quick Guide, User Manual
Mandatory Signs		
	Follow the operating and installation instructions at This symbol indicates that you must follow the operating and installation instructions at .	Quick Guide, User Manual
Other Symbols		
	Disposal Instructions This symbol indicates that the marked product must not be disposed of with household waste.	Nameplate
	CE Marking Product complies with essential EU requirements.	Nameplate
	Limited Surface Temperature For luminaires bearing this mark, the temperature on all surfaces of the luminaire that are exposed to dust accumulation must not exceed 90°C.	Nameplate
	Electrical safety class which ensures protection via **Safety Extra-Low Voltage** (SELV), with a maximum supply voltage of 50 V AC or 120 V DC.	Nameplate



- Keep all safety and hazard warnings on the stainless steel machine light legible. Replace the warnings as needed.

2.5.2 Hazards from Electrical Energy

DANGER



Touching live parts poses a risk of electric shock!

Failure to comply may result in death or serious injury!

- ▶ Always keep electrical components enclosed.
- ▶ Have work on electrical equipment performed only by a qualified electrician who is specifically trained to work on electrical equipment and can identify and avoid hazards.
- ▶ Disconnect the power supply on all poles before performing any work and verify that the system is de-energized.
- ▶ Installation in accordance with DIN VDE 100-100 "Operation of Electrical Installations"
- ▶ Follow the five safety rules:
 1. Disconnect the power supply.
 2. Secure against accidental re-energization.
 3. Verify that the circuit is de-energized.
 4. Ground and short-circuit.
 5. Cover or cordon off live parts.

DANGER



In the event of an electric shock, there is a risk of secondary accidents caused by startle reactions (e.g., falling)!

Failure to comply can result in death or serious injury!

- ▶ Follow the five safety rules when working on electrical equipment.
- ▶ Have work on electrical equipment performed only by a qualified electrician.
- ▶ Before working on electrical equipment, de-energize the stainless steel machine light and secure it against accidental re-energization.
- ▶ Have work on electrical equipment performed only by a qualified electrician—e.g., a plant electrician.
- ▶ Inspect the electrical equipment regularly for defects such as loose connections or scorched cables. Have any defects repaired immediately.
- ▶ Have the electrical equipment and fixed electrical installations inspected by a qualified electrician at least every 4 years. Fixed electrical installations are permanently installed equipment or equipment that lacks a carrying device and is so large that it cannot be easily moved. This also includes electrical equipment that is temporarily fixed in place and operated via movable connection cables.
- ▶ Have portable electrical equipment, connection cords with plugs, and extension and connection cords with their connectors inspected by a qualified electrician at least every 6 months, provided they are in use. Equipment is considered portable if, by its nature and customary use, it can be moved while energized.

- ▶ Any modifications made to electrical equipment after the inspection must comply with currently applicable standards and guidelines.
- ▶ Always keep all enclosures containing electrical equipment closed.
- ▶ Repair or replace damaged enclosures and cables immediately.
- ▶ If leakage currents exceed 10 mA, additional measures must be taken (grounding).

2.5.3 Warning: Incorrect Power Supply

WARNING



There is a risk of short circuit or overload!

Failure to comply may result in equipment damage or fire!

- ▶ Use only voltage ranges and power ratings in accordance with the device specifications.
- ▶ Provide a suitable pre-fuse or current monitoring device

2.5.4 Warning: Unsuitable Power Supply

WARNING



Non-compliant power supplies pose a hazard!

Failure to comply may result in an overload or fire hazard!

- ▶ Use only Class 2 power supplies for use in North America (U.S./Canada).

2.5.5 Warning: Insufficient Protection Rating

WARNING

There is a risk due to insufficient protection against dust or moisture!

Failure to comply may result in equipment failure!

- ▶ Observe the operating limits and the specified protection rating.

2.5.6 Danger due to inadequate insulation requirements

DANGER



There is a risk due to insufficient insulation and the danger of electric shock!

Failure to comply may result in electric shock!

- ▶ Follow the instructions for pin assignment and the disconnection procedure.

2.5.7 Danger due to incorrect application

DANGER

There is a risk if used in hazardous areas without approval!

Failure to comply may result in a risk of explosion!

- ▶ Do not use the stainless steel machine light in areas at risk of explosion.

2.5.8 Warning Regarding Incorrect Safety Assumptions

WARNING

There is a risk due to a false sense of security!

Failure to comply may result in danger!

- ▶ Do not use the stainless steel machine light as a safety-critical shutdown component.

2.5.9 Warning: Falling Parts During Installation

WARNING



Improper fastening poses a hazard!

Failure to follow these instructions may result in head, hand, or foot injuries!

- ▶ Secure the stainless steel machine light only with suitable fasteners and tighten the screws to the specified torque.
- ▶ Always wear the personal protective equipment required for the task at hand (work safety clothing, protective gloves, hard hat, and safety shoes) while working.
- ▶ Use fasteners in accordance with the manufacturer's instructions and tighten them to the specified torque.

2.5.10 Caution: Risk of burns

CAUTION



There is a risk from surfaces heated to over 50 °C!

Failure to observe this warning may result in burns!

- ▶ Observe the permissible ambient temperature and ensure adequate ventilation.
- ▶ Always wear appropriate protective clothing and gloves when working near hot components. Components that can become hot are marked with the "Warning: Hot Surface" graphic symbol.
- ▶ Allow the components to cool to ambient temperature before performing maintenance or repair work.

2.5.11 Caution: Optical Radiation

CAUTION

There is a risk of glare from LEDs!

Failure to observe this warning may result in vision impairment!

- ▶ Do not stare directly at the LED surface due to the risk of glare.

2.5.12 Tripping hazards

CAUTION

**Risk of tripping due to improperly installed power supply cables!**

Failure to comply may result in injury!

- ▶ Always route cables in the utility shaft so they are free of tripping hazards and obstructions.
- ▶ Mark unavoidable tripping hazards with color.

2.5.13 Hazards from using incorrect replacement parts

WARNING

Danger from using incorrect replacement parts!

Incorrect or defective replacement parts can lead to damage, malfunctions, or total failure, and can compromise safety!

- ▶ Use only genuine replacement parts.
- ▶ Obtain only genuine replacement parts.

2.5.14 Dangers Associated with Insufficient Qualifications

WARNING

**Risk of injury due to insufficient training!**

Improper handling of the stainless steel machine light can result in serious personal injury and property damage!

- ▶ Have all work performed only by qualified personnel.

2.5.15 Hazards from cleaning fluids

WARNING



The stainless steel machine light poses hazards due to cleaning fluids !

Failure to comply can result in serious injury!

- ▶ When handling the product, follow the applicable safety regulations for cleaning fluids.
- ▶ Always wear the protective equipment required for the task at hand (respiratory protection, protective work clothing, safety glasses, and protective gloves) while working.

2.5.16 Note on Environmental Factors

NOTE

There is a risk from dust or moisture!

Failure to comply may result in malfunctions!

- ▶ Operate the stainless steel machine light only within the specified limits and follow the cleaning instructions.

2.5.17 Note on ESD Hazard

NOTE



There is a risk of component damage due to electrostatic discharge!

Failure to comply may result in loss of function!

- ▶ Observe the ESD regulations.

2.5.18 EMC Hazard Warning

NOTE

There is a risk of interference emissions or insufficient immunity to interference!

Failure to comply may result in malfunctions!

- ▶ Follow the EMC installation instructions and isolate signal lines from sources of interference.

2.5.19 Warning regarding mechanical stress

NOTE

There is a risk of damage due to vibration or shock!

Failure to comply may result in loosening or failure!

- ▶ Conduct regular inspections of the fasteners.

2.5.20 Note on chemical exposure and cleaning

NOTE

There is a risk due to improper cleaning!

Failure to comply may result in damage to materials and equipment!

- ▶ Use only approved cleaning agents. Clean the exterior only with a mild soap solution; do not use solvents or acids.
- ▶ Do not use sharp-edged tools for cleaning; in particular, do not scratch the optical diffuser.
- ▶ Do not clean with high pressure.

2.5.21 Note on Installation Errors

NOTE

There is a risk due to an incorrect hole pattern or incorrect torque!

Failure to comply may result in fastener failure!

- ▶ Install the stainless steel machine light according to the chapter5 "Installation".

2.6 Personal Protective Equipment

When operating the stainless steel machine light , personal protective equipment must be worn to minimize health risks, regardless of the application-specific risk assessment. The personal protective equipment must be specifically designed to address the relevant risk.

- ▶ Always wear the protective equipment required for the task at hand while working.
- ▶ Do not wear rings, necklaces, or other jewelry during transport, installation, disassembly, and maintenance work.
- ▶ Follow all instructions regarding personal protective equipment.

The symbols have the following meanings:

Symbol	Description
	Safety Shoes Wear slip-resistant safety shoes to protect against heavy falling objects or slipping on slippery surfaces.
	Workwear Work safety clothing consists of close-fitting workwear with low tear resistance, tight sleeves, and no protruding parts. It is primarily designed to protect against entanglement by moving machine parts .
	Protective gloves Wear protective gloves to protect your hands from friction, abrasions, punctures, or deeper injuries, as well as from contact with hot surfaces or chemical substances.
	Safety helmet Wear a safety helmet to protect against falling or flying parts.

Personal protective equipment must be provided by the operator and must comply with applicable requirements.

In addition, national regulations, requirements from the risk assessment for the area of operation, and, if applicable, the operator's internal instructions must be observed.

2.7 Emergency Guidelines

Preventive Measures:

- ▶ Always be prepared for accidents or fires.
- ▶ Keep first-aid supplies (first-aid kit, blankets, etc.) and fire extinguishers within easy reach.
- ▶ Familiarize staff with accident reporting procedures, first aid, fire extinguishing, and rescue equipment.
- ▶ Keep access routes clear for emergency vehicles.

Actions to Take in Case of Accidents:

- ▶ Disconnect the power supply to the stainless steel machine light.
- ▶ Evacuate people from the danger zone.
- ▶ If cardiac and/or respiratory arrest occurs, begin CPR immediately.
- ▶ If anyone is injured, notify the first-aid officer and call an emergency physician or the emergency medical services.
- ▶ Clear access routes for emergency vehicles. If necessary, assign someone to direct the emergency responders.
- ▶ Extinguish a fire in the electrical control system with a CO2 extinguisher.

2.8 Operator's Responsibilities

The stainless steel machine light is intended for commercial use, and the operator must comply with applicable occupational safety regulations. In addition to the safety instructions in the operating manual, applicable safety regulations for the intended area of use must be observed.

The operator must ensure that the stainless steel machine light is used properly, that the operating instructions are available on site, and that clear responsibilities for installation, operation, maintenance, and cleaning are established. Only qualified and trained personnel who are of legal working age may perform work on the stainless steel machine light. Regular training, information about hazards, and the provision and use of personal protective equipment are required. The operator must ensure that persons working with the stainless steel machine light have read and understood the operating and installation instructions. In addition, adequate virus protection and a firewall in the IT infrastructure, as well as adherence to maintenance intervals, are required. The operator must regularly check the technical condition of the device and ensure that the safety and warning notices remain legible.

3 Description of the Stainless Steel Machine Light

3.1 Functional Description

3.1.1 General Information

The stainless steel machine light n ML-6-UFGE_{xx} is an electronically controlled LED machine light designed for a wide range of applications in machines, systems, or test rigs. It is designed as a permanently installed unit for industrial use and is powered directly by 24 V DC. The unit features a chemically and mechanically robust V2A stainless steel housing and a tempered glass front filled with crystal-clear PUR encapsulant, which ensures the light's watertight properties. The groove- and gap-free design allows for easy cleaning.

3.1.2 Optical Characteristics

- Illuminated area: Full-surface, 110° illumination.
- Daylight color 5700K
- Light type: Continuous light, controlled via "EN" pin
- LED lighting with high color fidelity and high contrast for good visibility in industrial environments.

3.1.3 Electrical Connection

- Power supply: Operating voltage 21–27 V DC, Class II (for the U.S./Canada)
- Connection options: 3 m / 20 m PVC/PVC cable.

3.1.4 Safety Features

- Protection rating: IP67 /IP68, suitable for harsh industrial environments.
- Protection class: III (operation with safety extra-low voltage).
- Electrical safety: Operation in North America (U.S./Canada) is permitted exclusively with a Class II power supply.
- Shock- and vibration-resistant: Resistant to chemical and mechanical influences.
- Compliance with Standards: Meets the requirements of Directive 2014/30/EU (EMC) and Directive 2011/65/EU (RoHS), including Amendment 2015/863/EU.

3.1.5 Typical Applications

- Lighting in and on machines and equipment.
- Process visualization in manufacturing and assembly lines.
- Lighting in chemically demanding environments (cleaning, etc.) and food production (without direct contact with food).

3.2 Technical Specifications

Technical Specifications ML-6-UFGE / ML-6-UFGE10M / ML-6-UFGE20M	
Electrical	
Supply voltage	24 V DC (21–27 V DC)
Rated Current Consumption	270 mA
Remote electrical control	OFF: EN <1V ON: EN > 8V
Protection class	
Permissible Power Supply	Class 2 (for use in the U.S. and Canada)
Connection	ML-6-UFGExx: 3 m / 20 m PVC/PVC cable 
Reverse polarity protection	Internal
Operating Mode	Continuous operation
Service life	40,000 h (L70)
Mechanical	
Dimensions	ML-6-UFGExx (L × W × H): 200 × 40 × 12 mm / 7.9" × 1.6" × 0.47"
Weight	ML-6-UFGE: 600 g ML-6-UFGE20M: 1200 g
Mounting Orientation	Any

3 Description of the Stainless Steel Machine Light

3.2 Technical Specifications

Technical Specifications ML-6-UFGE / ML-6-UFGE10M / ML-6-UFGE20M		
Mounting Type	Front mounting with 2× M6 hex socket head cap screws (DIN ISO 4762)	
Optical diffuser	Polyurethane, fully encapsulated	
Housing material	Aluminum	
Protection and Environmental Conditions		
Protection Class / NEMA	IP67/IP68 (Suitable for wet locations) / Type 4	
Ambient Temperature	-20 °C to +50 °C	
Storage Temperature	-40 °C to +70 °C	
Permissible humidity	40–60% (non-condensing)	
Meters above sea level	2,000 m	
Earthquake class	Not in an earthquake zone	
Chemical composition	Halogen-free, silicone-free, REACH/ROHS compliant	
Optical data		
Light color	5700K	
Color Rendering Index	>90	
Energy efficiency class	E	
Luminous flux	750 lm	
Ecodesign Regulation 2019/2020 EU	 ML-6-UFGE EPREL Reg. No.: 2095306	 ML-6-UFGE20M EPREL Reg. No.: 2095306

3.2.1 Dimensions

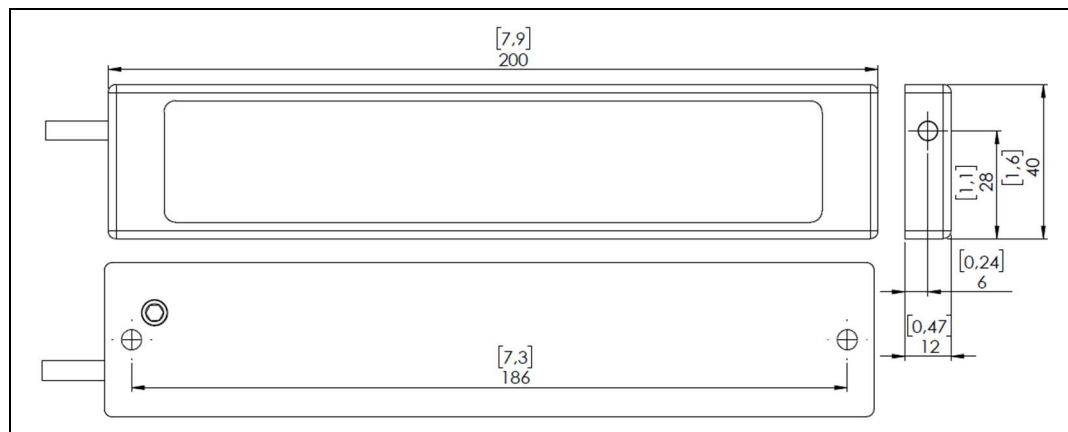


Figure1 : Dimensions

4 Transport and Storage

4.1 Delivery by an Authorized Shipping Company

The machine light is delivered to the customer by a shipping company authorized by Schrempp electronic GmbH .

4.2 Inspection upon receipt by the recipient

Upon arrival of the stainless steel machine light at the customer's location, it must be inspected for visible shipping damage.

- Report any shipping damage immediately to the delivery agent.

4.3 Packaging

The mode of transport is a key factor in determining the type of packaging. Unless otherwise agreed upon in a separate contract, the packaging complies with the HPE packaging guidelines established by the Federal Association for Wood Packaging, Pallets, and Export Packaging (Bundesverband Holzmittel, Paletten, Exportverpackung e. V.) and the Association of German Mechanical Engineering Companies (Verein Deutscher Maschinenbauanstalten).

- Please observe the symbols affixed to the packaging.

4.3.1 Unpacking

When unpacking the stainless steel machine light , proceed as follows:

- ▶ Remove the packaging. Dispose of packaging materials such as plastic film and adhesive tape properly.
- ▶ Always remove all packaging before installing the stainless steel machine light .
- ▶ Keep the original packaging for return or further shipping.
- ▶ Check the delivery against your order to ensure it is complete.
- ▶ Be sure to keep the included documentation; it contains important information on how to use the stainless steel machine light .
- ▶ Inspect the contents of the package for visible shipping damage.
- ▶ If you notice any shipping damage or discrepancies between the contents of the package and your order, please notify Schrempp electronic GmbH .

4.3.2 Repackaging

See the chapter “4.3.1 Unpacking .”

4.4 Hazard warnings during transport

WARNING



The following specific hazards must be taken into account when transporting the stainless steel machine light:

Suspended loads may fall, posing a risk of death!

Protruding edges can cause crush injuries or cuts!

- ▶ Use only approved lifting attachments.
- ▶ Always wear the personal protective equipment required for the task at hand (work clothing, protective gloves, hard hat, and safety shoes) while working.
- ▶ Make sure that neither you nor anyone else is standing under suspended loads.
- ▶ Do not use cables or attachments as tie-down points.

4.5 Machine Light Package Contents

The machine light comes with the following components:

- ML-6-UFGE / ML-6-UFGE20M Stainless Steel Machine Light
- Quick Guide

4.6 Temporary Storage

If the machine light is not installed immediately upon delivery, it must be carefully stored in a protected location. The stainless steel machine light must be stored temporarily in such a way that it is protected from cold, moisture, contamination, and chemical and mechanical influences. Refer to the “Environmental Conditions” chapter for the recommended storage conditions for the stainless steel machine light.



We assume no liability for damage resulting from improper storage!

5 Installation

The stainless steel machine light is intended for permanent, fixed installation in industrial environments. Installation is performed on the front side of a suitable mounting surface and must be carried out in such a way that the signals are clearly visible to operating and maintenance personnel.

Inspect the stainless steel machine light for damage before installation. If visible damage is present, the stainless steel machine light must not be installed, and the manufacturer must be contacted.

5.1 Pre-assembly by Schrempp electronic GmbH

The stainless steel machine light is fully pre-assembled by Schrempp electronic GmbH . Connection to the machine or system is performed by the machine or system integrator.

5.2 Safety Precautions During Installation

WARNING



Improper mounting poses a hazard!

Failure to follow these instructions may result in head, hand, or foot injuries!

- ▶ Secure the machine light only with suitable fasteners and tighten the screws to the specified torque.
- ▶ Exceeding the permissible environmental conditions (temperature, humidity, vibration) can lead to failure. Check the installation location in advance.
- ▶ Always wear the personal protective equipment required for the task at hand (work safety clothing, protective gloves, hard hat, and safety shoes) while working.
- ▶ Use fasteners in accordance with the manufacturer's instructions and tighten them to the specified torque.
- ▶ Do not use the stainless steel machine light as a climbing aid. Misuse may cause the stainless steel machine light to break off or be damaged in other ways,
- ▶ Install the stainless steel machine light in such a way that it cannot be used as a climbing aid.

 CAUTION



Tripping hazard due to improperly routed power supply cables!

Failure to comply may result in injury!

- ▶ Always route cables so they are free of tripping hazards and obstructions.
- ▶ Mark unavoidable tripping hazards with color.

 CAUTION

Risk of injury due to unsuitable mounting hardware!

Unsuitable mounting hardware can lead to injuries during operation!

- ▶ If necessary, use only the mounting hardware provided.

5.3 Preparatory Measures

5.3.1 General

Before installing the stainless steel machine light , ensure that:

- additional lighting equipment (e.g., flashlights) is available for installation (if necessary),
- the installation surface at the installation site is clean and free of dust,
- the necessary tools for installation are on hand:
 - Wrenches for the M6 screws used
 - Torque wrench (adjustable)
 - Screwdrivers for electrical connections (qualified personnel only)

5.3.2 Preparatory Steps for Electrical Work

Before installing the stainless steel machine light , ensure that:

- The connections for the power supply are prepared.
- The work area is secured and de-energized.
- The mounting position has been determined (unobstructed view, protection against damage).
- The mounting holes for M6 screws are prepared.

5.4 the Machine LightInstalling

WARNING

Risk of injury due to instability!

There is a risk of serious injury due to the instability of individual components when installing the stainless steel machine light as a result of incorrect installation!

- ▶ Make sure the installation surface is:
 - is flat and level
 - has the necessary load-bearing capacity,
 - temperature-resistant, non-flammable, and
 - free from vibrations
- ▶ Have the installation work performed only by authorized and trained personnel.
- ▶ During installation, observe the tightening torques for all screw connections.
- ▶ Always wear the protective equipment required for the specific task (such as protective work clothing and safety shoes) while working.
- ▶ Avoid installing the stainless steel machine light in locations near impermissible electromagnetic fields.
- ▶ Do not install the stainless steel machine light in locations where a corrosive or explosive atmosphere is present.
- ▶ Do not use the stainless steel machine light in hazardous areas.
- ▶ Take the environmental conditions into account.
- ▶ Ensure that the stainless steel machine light is protected against accidental impacts.
- ▶ Ensure that, with regard to order and cleanliness, the following is observed: all wires and cables are neatly routed and, if necessary, covered; tools in the vicinity of the machine light are tidied away; and loose parts and any waste (if present) are regularly removed.



5.4.1 Mechanical Mounting

Proceed as follows during installation:

- ▶ Align the stainless steel machine light in the intended position.
- ▶ Insert two M6 hex socket head cap screws through the designated mounting holes.
- ▶ Tighten the screws evenly (torque: 5–6 Nm, unless otherwise specified by the manufacturer).
- ▶ Check that the light is securely fastened (no play, no twisting). Do not install lights closer than 15.25 cm from curtains or similar flammable materials.

5.4.2 Electrical Connection

- ▶ Select the appropriate connector (M12 or LC).
- ▶ Plug in and fully lock the connection.
- ▶ Check the pin assignment according to the technical documentation.
- ▶ Use only a Class 2 power supply in North American applications

5.4.3 Installation Instructions

- ▶ Ensure direct visibility within the intended field of view.
- ▶ Avoid installation locations with strong ambient lighting or direct sunlight.
- ▶ Protect the light from mechanical impacts, vibrations, and chemical influences.

6 Commissioning

6.1 Safety Precautions Before Commissioning

WARNING



Risk of injury during commissioning!

There are various risks of injury during commissioning.

- ▶ Have commissioning performed only by qualified personnel.
 - ▶ Cordon off the hazard area and keep unauthorized persons away.
 - ▶ Lay power supply cables so they are free of tripping hazards and obstructions (e.g., under covers).
-
- ▶ Familiarize yourself thoroughly with:
 - the features of the stainless steel machine light ,
 - the operation of the stainless steel machine light ,
 - the emergency procedures.
 - ▶ Before initial startup, perform the following tasks:
 - ▶ Inspect the stainless steel machine light for visible damage; correct any defects found immediately—the stainless steel machine light may only be operated when in perfect condition.

6.2 Connection ML-6-UFGE / ML-6-UFGE10M / ML-6-UFGE20M

ML-6-UFGExx: PVC/PVC cable:

Brown: +24 VDC

Black: EN

Blue: GND



7 Troubleshooting

WARNING



The stainless steel machine light poses hazards during troubleshooting!

Failure to follow these instructions may result in damage, malfunction, or total failure of the , as well as compromised safety of the !

- Have troubleshooting performed only by qualified personnel.



7.1 Remedial Measures

Fault	Cause	Remedy
stainless steel machine light not functioning	No power supply	Check the power supply and turn it on
	Plug not connected correctly	Check and secure the connectors
	Defective power supply	Replace the power supply according to specifications
stainless steel machine light is not illuminating	Error in the control system or wiring	Check the control program for the “EN” enable contact and the wiring, and correct as necessary
stainless steel machine light flashes or flickers unintentionally	Voltage fluctuations	Stabilize the power supply
	Loose connection in the power cord or connector	Check the connectors and cables
Lighting surface is unevenly bright	Defective LEDs	Replace the device

8 Maintenance and Cleaning

8.1 Safety Precautions During Maintenance Work

8.1.1 General safety precautions for maintenance work

Perform the required maintenance tasks, such as cleaning and inspections, on schedule. Read the chapter “2 Safety”.

- ▶ Restrict access to the operating area of the . Ensure that only authorized persons are present in the operating area of the .
- ▶ Replace any defective stainless steel machine lights and accessories immediately.
- ▶ Use only original accessories and replacement parts. The use of other parts will void the warranty and the product's suitability for use and may result in injury.

After completing maintenance work and before using the stainless steel machine light , perform the following steps:

- ▶ Check all previously loosened screw connections once again to ensure they are tight.
- ▶ Verify that all previously removed protective devices, covers, housing lids , and, if applicable, other components have been properly reinstalled.
- ▶ Ensure that all tools, materials, and other equipment used have been removed from the work area.
- ▶ Clean the work area.

Modifications, alterations, improper or unauthorized use, and failure to follow the instructions in this operating manual void the warranty.

8.2 Inspection and Maintenance

8.2.1 Maintenance Intervals

Maintenance Location	Maintenance task	See section
Monthly		
stainless steel machine light, entire unit	Visual inspection for damage, secure fit, and contamination.	8.2.3
stainless steel machine light, entire unit	Functional test	
Annually		
stainless steel machine light, entire unit	Inspection of electrical connections, mounting screws, and seals.	8.2.44

8.2.2 Preparatory Measures: Electrical System

DANGER



Risk of death from electric shock!

Live components can cause a fatal electric shock or serious injury if touched!

- ▶ Have work on the electrical equipment performed only by a qualified electrician who is specifically trained to work on electrical equipment and who can identify and avoid hazards.
- ▶ Before performing maintenance or inspection work on the stainless steel machine light or the machine light, disconnect the power supply.
- ▶ Secure the stainless steel machine light against accidental reactivation by locking the main switch with a padlock.
- ▶ Attach a warning sign against accidental restarting to the main switch.

NOTE



- ▶ Use ESD protection measures during maintenance (e.g., grounding wrist strap, conductive work mat).

8.2.3 Maintenance - Monthly

8.2.3.1 Visual inspection

- ▶ Check the light-emitting surface for scratches, cracks, or cloudiness.
- ▶ Check that the light fixture is securely fastened (no play, no twisting).
- ▶ Inspect cables and connectors for damage, corrosion, or loose connections.

8.2.3.2 Cleaning

- ▶ Use a soft, lint-free cloth.
- ▶ Clean the light-emitting surface with a mild, non-abrasive cleaner.
- ▶ Avoid aggressive solvents (e.g., acetone, gasoline, concentrated acids, chloroform), which can damage the diffuser.
- ▶ Make sure no moisture enters the housing.

8.2.3.3 Functional Test

- ▶ Restore the power supply.
- ▶ Activate all lighting functions one after another.
- ▶ Check whether colors are displayed correctly.
- ▶ Document any abnormalities in the maintenance log.

8.2.4 Maintenance—Annual

8.2.4.1 Electrical Inspection

⚠ DANGER



Risk of death from electric shock!

Live components can cause a fatal electric shock or serious injury if touched!

- ▶ Have work on the electrical equipment performed only by a qualified electrician.
 - ▶ Before performing any maintenance or inspection work, disconnect the stainless steel machine light from the power supply.
-
- ▶ Check that all connectors are securely seated and locked in place.
 - ▶ Inspect the cables for chafing or crushing.

- ▶ If necessary, tighten the terminal mounting screws (to the torque specified by the manufacturer).

8.2.5 Replacement of Components

- ▶ Not possible. Only the complete unit may be replaced

9 Take out of service and disassemble

WARNING

Risk of serious injury due to improper decommissioning or disposal of the stainless steel machine light!

Failure to comply can result in serious injury!



- ▶ Have all work on the electrical system performed only by qualified electricians. Qualified electricians are specially trained to work on electrical systems, are aware of the dangers of electrical voltage, and can independently avoid potential hazards by taking the proper precautions.
- ▶ Have the stainless steel machine light disassembled only by qualified or properly trained personnel who have experience with disassembling electrical equipment.
- ▶ Before beginning any disassembly work, turn off the stainless steel machine light completely and disconnect it from the power supply at all terminals.
- ▶ Always wear the required personal protective equipment during work, such as protective work clothing, safety shoes, protective gloves, and a hard hat.
- ▶ If in doubt, contact Schrempp electronic GmbH for technical support or guidance on safe decommissioning and disposal.

9.1 Disposal

WARNING



Risk of environmental pollution/waste of resources!

Failure to comply may result in environmental damage!

- ▶ Have disposal work performed only by trained and authorized personnel.
- ▶ Separate electrical and electronic components in accordance with Directive 2012/19/EU. Sort materials and packaging waste by type and send them for recycling. Recycle materials marked with a recycling symbol. The packaging is made of various materials that can be disposed of through your local recycling facility. By properly disposing of the packaging, you help prevent potential hazards to the environment and public health.
- ▶ Follow local recycling regulations.

10 Appendix

10.1 EU Declaration of Conformity

On the following pages, you will find the EU Declaration of Conformity for this machine light and the attached documents.



EU Declaration of Conformity

(Original Declaration of Conformity)

Manufacturer/Authorized Representative:	Schrempp electronic GmbH , Wiesenstrasse 5 , D-65843 Sulzbach/Ts.
Authorized representative responsible for compiling the technical documentation:	Schrempp electronic GmbH , Wiesenstrasse 5 , D-65843 Sulzbach/Ts.
Product:	ML-6-UFGE / 10872 / GTIN 4262388140792 ML-6-UFGE20M / 11689 / GTIN 4262388143205
Function:	The machine light is intended exclusively for illuminating industrial machines, devices, or systems

The manufacturer bears sole responsibility for issuing this Declaration of Conformity. The subject matter of the declaration described above complies with the relevant Union harmonization legislation, depending on the components used, as described in the annexes to the Directives, which form an integral part of this Declaration of Conformity:

- 2014/30/EU – EMC Directive, including the essential requirements set forth in Annex I
- 2011/65/EU + (EU) 2015/863 – EU RoHS Directive, including the essential requirements set forth in Annex II

These products comply with the current requirements of the RoHS Directive for all 10 specified substances (max. 0.1% by weight in homogeneous material for lead, mercury, hexavalent chromium (Cr6+), polybrominated biphenyl (PBB), polybrominated diphenyl ether (PBDE), di(2-ethylhexyl) phthalate (DEHP), butylbenzyl phthalate (BBP), dibutyl phthalate (DBP), and diisobutyl phthalate (DIBP), and a maximum of 0.01% by weight for cadmium).

List of the relevant harmonized standards (or parts thereof) used as a basis, including the date of the standard, or a list of other technical specifications for which conformity is declared, including the date of the specification:

- DIN EN 60598-1/A11: 2021
- DIN EN 55015: +A11: 2020
- DIN EN 61547: 2009
- DIN EN 62471: 2009
- DIN EN 60529
- EN IEC 63000:2018

D-65843 Sulzbach/Ts. ,02.10.2026

Wolfram Schrempp, M.Eng., Managing Director