

OPERATING AND ASSEMBLY INSTRUCTIONS

SL-05-TRIO-M12 / SL-05-TRIO-LC



CE / cUL[®] US LISTED / cF[®] US

Keep for future reference!

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Approvals

This document requires the following approvals:

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1 Introduction

This Operating and assembly instructions provides you with all the information you need for the smooth operation of the signal light .

The Operating and assembly instructions must be read, understood, and applied by all persons involved in the assembly/installation, transport, commissioning, operation, maintenance, cleaning, troubleshooting, decommissioning, dismantling, and disposal of the signal light . This applies in particular to the safety instructions listed.

After reading the Operating and assembly instructions , you will be able to:

- transport the signal light safely,
- install/assemble the signal light safely,
- put the signal light into operation in a safe manner,
- operate the signal light safely,
- take the appropriate measures in the event of a malfunction,
- Maintain the signal light in accordance with the regulations.
- Clean the signal light in accordance with regulations.
- decommission the signal light in a safe manner,
- Dismantle the signal light in accordance with safety regulations.
- Dispose of the signal light in accordance with regulations.

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



1.1 Display media

As a note and direct warning of hazards, text statements in these Operating and assembly instructions that require special attention are marked as follows:




1.1.1 Section-related warnings

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

Structure

 SIGNAL WORD	
 Symbol for 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	High-risk hazard which, if not avoided, will result in death or serious injury.
 WARNING	Medium-risk hazard which, if not avoided, could result in death or serious injury.
 CAUTION	Low-risk hazard which, if not avoided, may result in minor or moderate bodily injury.
NOTE	Low-risk hazard which, if not avoided, may result in property damage.

1.1.2 Embedded warnings

Embedded warnings apply to specific actions and are integrated directly 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 means of representation











i | The info symbol provides useful information.









- Texts following this symbol are lists.
- Text following this symbol describes measures in warning notices and steps to be taken.
- a) Text following this symbol describes activities 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 assembly instructions

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

Symbol	Description
Warning sign	
	Warning of hand injuries This symbol warns of hand injuries.
	Warning of obstacles on the floor This symbol warns of tripping hazards caused by obstacles on the floor.
	Warning of suspended loads This symbol warns of dangers when standing under suspended loads.
	Warning of electrical voltage This symbol warns of hazards due to electrical voltage.

Symbol	Description
	Warning of components at risk from electrostatic discharge This symbol warns of components that can be damaged by electrostatic discharge (ESD).
	Warning of hot surfaces This symbol warns of the risk of burns from hot surfaces.
Mandatory sign	
	Operating and assembly instructions This symbol indicates that the Operating and assembly instructions must be observed.
	Wear safety shoes This symbol indicates that safety shoes must be worn in the area of application.
	Use hand protection This symbol indicates that hand protection must be worn in the area of application.
	Wear protective work clothing This symbol indicates that protective work clothing must be worn in the area of application.
	Use head protection This symbol indicates that head protection must be worn in the area of application.
Hazardous substance symbols	
	Warning of environmentally hazardous substances This symbol warns of environmentally hazardous substances.
	Danger - Caution/Systemic health hazard This symbol warns of systemic health hazards if inhaled or swallowed.
	Danger - Caution toxic (harmful to health)/Corrosive or irritant effect/Lower 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 can be returned to the recycling cycle.
	Qualified electrician required This symbol indicates tasks that may only be performed by a qualified electrician.
	Mechanical specialist required This symbol indicates activities that may only be performed by a qualified mechanic.
	CE marking CE marking: Product complies with essential EU requirements.
	UL approval (versions without M12 connectors) Product complies with essential UL requirements
	UL approval (versions with M12 connector) Product complies with essential UL requirements as a component used in a finished product.
	Electrical safety class which ensures protection through ** safety extra-low voltage** (SELV), whereby the supply voltage is a maximum of 50 V AC or 120 V DC.

1.2 Warranty and liability

The obligations agreed in the delivery contract, the general terms and conditions, the delivery conditions of signal light , and the legal regulations valid at the time of conclusion of the contract apply.

All information and instructions in these Operating and assembly instructions have been compiled taking into account the applicable standards and regulations, the state of the art, and our many years of knowledge and experience.

This Operating and assembly instructions is not intended to replace the suitability or reliability of the signal light for specific user applications and must not be used to determine its suitability or reliability.

The signal light may only be used for the applications described by the manufacturer. All other applications are improper and considered dangerous. The manufacturer cannot be held liable for damage caused by errors, unintentional or improper use of the signal light.

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

- Improper or inappropriate use of the signal light,
- improper transport, assembly/installation, commissioning, operation, troubleshooting, maintenance/cleaning, decommissioning, disassembly, and disposal of signal light,
- Operation of signal light with a defective housing,
- Failure to observe the Operating and assembly instructions and the information in the Operating and assembly instructions regarding assembly, commissioning, operation, maintenance, and cleaning of the signal light,
- Use of unqualified or untrained personnel,
- Structural modifications to the signal light (Modifications or other changes to the signal light may not be made without the prior written consent of Schrempp electronic GmbH. In the event of non-compliance, the signal light will lose its suitability.)
- improperly performed repairs,
- use of unauthorized spare parts or spare parts that do not meet the specified technical requirements,
- disasters, foreign object impact, and force majeure.

Furthermore, Schrempp electronic GmbH reserves the right to revise this publication at any time due to technical changes in the context of improving the usage properties and further development, without being obliged to inform other persons of the revision.

1.3 Copyright protection

These Operating and assembly instructions, including all illustrations, are protected by copyright and are intended for internal use only.

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We reserve the right to make any changes that serve technical progress.

1.4 Warranty provisions

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

1.5 Service/Customer service



Our customer service team is available to provide technical information:

Phone: +49 6196 802399-0

In addition, our employees are always interested in new information and experiences resulting from the use of our products that may be valuable for improving them.

2 Safety

WARNING



Failure to observe the following safety instructions can have serious consequences:

Endangerment of persons due to electrical, mechanical, or chemical influences, failure of important functions, and damage to the environment!

- ▶ Read the safety and hazard warnings listed in this section thoroughly before putting the signal light into operation.
- ▶ In addition to the instructions in this Operating and assembly instructions, observe the generally applicable safety and accident prevention regulations.
- ▶ In addition to the information in these Operating and assembly instructions, observe the applicable national work, operating, and safety regulations. Also comply with any applicable internal factory regulations.

2.1 Intended use

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

Die Signalleuchte dient ausschließlich der optischen Signalisierung von Maschinen- oder Anlagenzuständen. Installation may only be carried out by trained control and automation technology specialists who are familiar with the applicable national, regional, and local safety and accident prevention regulations.

The signal light may only be used within the scope of its technical data. Intended use also includes compliance with the specifications in the technical data, compliance with the Operating and assembly instructions, compliance with the maintenance and servicing regulations, and compliance with the applicable national safety, occupational safety, and accident prevention regulations. Any use beyond this is considered improper.

The specified maximum technological data must not be exceeded. The devices are suitable for indoor and outdoor use within the scope of the specified protection class and are only intended for stationary installation. The signal light n are not intended for installation in aircraft or spacecraft or for any use other than that specified here and are considered improper use. In particular, it is prohibited to:

- using defective or unsuitable accessories,
- operate the signal light in potentially explosive atmospheres,
- operate the signal light if it is not ready for operation or has been modified,
- Place objects on the signal light . Remove all objects that are on the signal light .
- operate the signal light if the housing is damaged,

- expose the equipment of the signal light to rain or wet conditions. Water entering the equipment of the signal light increases the risk of electric shock and failure of the signal device.
- Open the signal light for maintenance work.
- Operate the signal light if the safety and warning notices have been removed or are illegible.
- Operate the signal light if it has been installed incorrectly. Incorrect installation of the mechanical or electrical connection can result in personal injury and property damage.
- operate the signal light if cables are damaged. Damage to cables can result in personal injury and property damage.
- Operating the signal light if the vibration and temperature ranges are not observed. Failure to observe the vibration and temperature ranges can result in personal injury and property damage.
- Failure to store and transport the signal light in accordance with the manufacturer's specifications. Incorrect storage and transport can lead to personal injury and property damage.

Proper use also includes:

- Compliance with all instructions in the Operating and assembly instructions,
- Compliance with the inspection intervals in accordance with the applicable machine directives, if available
- the use of operating and auxiliary materials 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 stated in the technical data must be observed without exception.



- ▶ Use the signal light only for its intended purpose; otherwise, safe operation cannot be guaranteed.
- ▶ Observe the information on the type plate.

The manufacturer is not liable for any personal injury or property damage resulting from improper use; liability lies with the operator of the signal light !

2.1.1 Note on installing the signal light

Installation may only be carried out by trained control and automation technology specialists who are familiar with the applicable national, regional, and local safety and accident prevention regulations.

The signal light is intended for installation in a machine, system, or device; the control system is therefore specified by the machine, system, or device or installed in it.

The signal light may only be put into operation once it has been established that the machine, system, or device in which the signal 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 carry out an appropriate and complete risk assessment, evaluation, and testing of the signal light with regard to the specific application or use.

In emergencies, it is recommended to observe and apply the procedures described in the operating and maintenance instructions for the machine, system, or device on which the signal light is installed.

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

2.1.2 Structural modifications to the signal light

The design and manufacturer's approval are based on the General Product Safety Act. Without prior written approval from Schrempp electronic GmbH, no modifications, additions, or conversions may be made to the signal light .

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

Replace signaling devices that are not in perfect condition immediately.

Only use original spare parts/wear parts/accessories. These parts are specially designed for the signal light . There is no guarantee that parts sourced from third parties are designed and manufactured to meet stress and safety requirements.

Parts and special equipment not supplied by Schrempp electronic GmbH are not approved for use with the signal light .

2.1.3 Foreseeable misuse

Any use of the signal light that exceeds its intended use and/or is otherwise different may result in serious injury.

- ▶ Only use the signal light for its intended purpose.
- ▶ Only use the signal light if it has been properly maintained and inspected.
- ▶ Do not use the signal light outside the environmental conditions (temperature, humidity, protection class) specified in the Technical Data chapter.
- ▶ Do not operate the signal light without proper, secure fastening or with loose fastening elements.
- ▶ Do not connect the signal light to a power supply that does not meet the specifications. When using in North America (USA/Canada), only use a 24V / Class 2 power supply.
- ▶ Do not operate the signal light in potentially explosive areas unless it has the appropriate ATEX approval.
- ▶ Do not look directly into the illuminated LED surface from a short distance.
- ▶ Do not use the signal light as lighting – it is intended exclusively for optical signalling.
- ▶ Do not change or manipulate the factory settings if this would alter the defined signal meaning.
- ▶ Do not carry out any unauthorized repairs, modifications, or conversions on the signal light .

2.2 Requirements for personnel

The signal light may only be transported, assembled, installed, commissioned, maintained, cleaned, repaired, decommissioned, tested, dismantled, or disposed of by persons who are qualified and/or instructed to do so. If the personnel in question do not already have the necessary knowledge and skills, appropriate training and instruction must be provided. All local regulations must be followed.

These persons must be familiar with the Operating and assembly instructions and act in accordance with them. The respective responsibilities 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 signal light and understand the associated hazards.

The operating and installation instructions Operating and assembly instructions specify the following qualifications for various areas of activity:

2.2.1 Trainee personnel

Trainee personnel such as apprentices or temporary workers are not aware of all the hazards that may arise when operating the signal light . They may only carry out work on the signal light under the supervision of qualified or trained personnel.

2.2.2 Trained personnel

Trained personnel have been instructed by the operator or by qualified personnel on the tasks assigned to them and the possible dangers of improper behavior.

2.2.3 Qualified personnel

Qualified personnel are able to carry out the work assigned to them and to independently recognize and avoid potential hazards due to their professional training, knowledge, and experience, as well as their knowledge of the relevant regulations.

2.2.4 Qualified electrician

A qualified electrician is able to carry out work on electrical equipment and independently recognize and avoid potential hazards due to their professional training, knowledge, and experience, as well as their knowledge of the relevant standards and regulations.

The qualified electrician is trained for the specific location in which they work 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 persons who can be expected to perform their work reliably are permitted to work on the equipment. No persons whose responsiveness is impaired by drugs, alcohol, medication, or similar substances may install or connect the signal light .
 - All persons who carry out work on the signal light must read the Operating and assembly instructions and confirm with their signature that they have understood them.
 - Trainee personnel may initially only carry out work on the signal light under the supervision of qualified personnel. Completion and successful training must be confirmed in writing.
- Observe the personnel requirements for the various life phases/operating modes.

Personnel requirement	Life phase/operating mode
Qualified specialist personnel, qualified electrician	Transport, assembly, commissioning, malfunction, maintenance, decommissioning, dismantling, disposal

The operator is responsible for training the personnel.

2.2.6 Obligations of personnel

All persons assigned to the assembly and commissioning of the signal light undertake to do the following before starting work:

- To observe the basic regulations on occupational safety and accident prevention,
- to read the safety instructions and warnings in these Operating and assembly instructions and to confirm by signature that they have understood them.

2.2.7 Unauthorized persons

Unauthorized persons who do not meet the qualification requirements for personnel are not familiar with the hazards in the area of application.

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

2.3 Basic safety instructions










- ▶ The signal light may only be put into operation and maintained after reading these Operating and assembly instructions.
- ▶ Use the signal light only for its intended purpose.
- ▶ When operating the signal light , refrain from any work that could compromise the safety of persons or the signal light .
- ▶ Always keep the area of use of the signal light clean and tidy.
- ▶ Only operate the signal light within the limits of its technical performance data.
- ▶ Keep all safety and hazard warnings on the signal light in a legible condition and replace them if necessary.
- ▶ Work on the signal light may only be carried out by qualified or trained personnel.
- ▶ In the event of malfunctions, immediately take the signal light out of service.
- ▶ It must be ensured that all persons performing work on the signal light can consult the Operating and assembly instructions at any time.

2.4 Safety measures for environmental protection

- ▶ Comply with the regulations on 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 signal light

Symbol	Description	Location
	Warning of electrical voltage This symbol warns of hazards due to electrical voltage.	Quick guide, user manual
	Warning of components at risk from electrostatic discharge This symbol warns of components that can be damaged by electrostatic discharge (ESD).	Quick guide, instructions for use
	Warning of hot surfaces This symbol warns of the risk of burns from hot surfaces.	Quick guide, instructions for use
Mandatory sign		
	Operating and assembly instructions This symbol indicates that the Operating and assembly instructions must be observed.	Quick guide, operating instructions
Other symbols		
	Disposal information This symbol indicates that the marked product must not be disposed of with household waste.	Type plate
	CE marking CE marking: Product complies with essential EU requirements.	Type plate
	UL approval (versions without M12 connectors) Product complies with essential UL requirements	Type plate
	UL approval (versions with M12 connectors) Product meets essential UL requirements as a component used in a finished product.	Type plate
	Electrical safety class which ensures protection through ** safety extra-low voltage** (SELV), whereby the supply voltage is a maximum of 50 V AC or 120 V DC.	Type plate



- Keep all safety and hazard warnings on the signal light in a legible condition. Renew the warnings if necessary.

2.5.2 Hazards due to electrical energy

DANGER



Touching live parts poses a risk of electric shock!

Failure to observe this warning may result in death or serious injury!

- ▶ Always keep electrical components closed.
- ▶ Only allow work on electrical equipment to be carried out by a qualified electrician who is specially trained to work on electrical equipment and can recognize and avoid hazards.
- ▶ Switch off the power supply to all poles before starting work and check that there is no voltage.
- ▶ Installation in accordance with DIN VDE100-100 "Operation of electrical installations"
- ▶ Apply the five safety rules:
 1. Disconnect.
 2. Secure against reconnection.
 3. Check that there is no voltage.
 4. Ground and short-circuit.
 5. Cover or fence off live parts.

DANGER



In the event of an electric shock, there is a risk of secondary accidents due to shock (e.g., falling)!

Failure to comply may result in death or serious injury!

- ▶ Apply the five safety rules when working on electrical equipment.
- ▶ Only allow work on electrical equipment to be carried out by a qualified electrician.

- ▶ Before working on electrical equipment, disconnect the signal light from the power supply and secure it against being switched back on.
- ▶ Only allow work on electrical equipment to be carried out by a qualified electrician, e.g., a company electrician.
- ▶ Check the electrical equipment regularly for defects such as loose connections or burnt cables. Have any defects repaired immediately.
- ▶ Have the electrical equipment and stationary electrical equipment checked by a qualified electrician at least every 4 years. Stationary electrical equipment is equipment that is permanently installed or equipment that does not have a carrying device and is so large that it cannot be easily moved. This also includes electrical equipment that is temporarily installed and operated via movable connection cables.
- ▶ Have portable electrical equipment, connection cables with plugs, and extension and connection cables with their plugs checked by a qualified electrician at least every 6 months, if they are used. Equipment is considered portable if it can be moved while live according to its type and normal use.
- ▶ Any modifications to electrical equipment carried out after the inspection must comply with the currently valid 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 about incorrect power supply

WARNING



There is a risk of short circuit or overload!

Failure to observe this warning may result in damage to the device or fire!

- ▶ Only use voltage ranges and power ratings in accordance with the device specifications.
- ▶ Provide a suitable backup fuse or current monitoring device.

2.5.4 Warning about unsuitable power supply

WARNING



Non-compliant power supplies pose a hazard!

Failure to comply may result in overload or fire hazard!

- ▶ Only use Class 2 power supplies for use in North America (USA/Canada).

2.5.5 Warning about inadequate protection class

WARNING

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

Failure to observe this warning may result in failure!

- Observe the operating limits and the specified protection class.

2.5.6 Danger due to insufficient insulation requirements

DANGER



There is a risk due to insufficient insulation and contact hazard!

Failure to observe this may result in electric shock!

- Follow the description for connection assignment and the disconnection process.

2.5.7 Danger due to incorrect application

DANGER

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

Failure to comply may result in a risk of explosion!

- ▶ Do not use the signal light in potentially explosive areas.

2.5.8 Warning against incorrect safety assumptions

WARNING

There is a danger of false security!

Failure to observe this warning may result in danger!

- ▶ Do not use the signal light as a safety-related shut-off component.

2.5.9 Warning about falling parts during installation

WARNING



Improper fastening poses a hazard!

Failure to comply may result in head, hand, or foot injuries!

- ▶ Only attach the signal light using suitable means and tighten the screws to the specified torque.
- ▶ Always wear the personal protective equipment required for the respective work (protective clothing, protective gloves, protective helmet, 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 in case of thermal hazard

CAUTION



There is a risk of burns 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 suitable protective clothing and gloves when working near hot components. Components that can become hot are marked with the graphic symbol "Warning of hot surface."
- ▶ Allow components to cool to ambient temperature before performing maintenance or repair work.

2.5.11 Caution with optical radiation

CAUTION

There is a risk of glare from LEDs!

Failure to observe this warning may result in visual impairment!

- ▶ Do not stare at the LED surface due to possible glare.

2.5.12 Dangers from tripping

CAUTION



Risk of tripping due to improperly laid power supply cables!

Failure to comply may result in injury!

- ▶ Always lay cables in the supply shaft in such a way that they do not cause tripping hazards and are barrier-free.
- ▶ Mark unavoidable tripping hazards with color.

2.5.13 Dangers due to the use of incorrect spare parts

WARNING

Danger due to the use of incorrect spare parts!

Incorrect or faulty spare parts can lead to damage, malfunctions, or total failure, and can compromise safety!

- ▶ Only use original spare parts.
- ▶ Only purchase original spare parts.

2.5.14 Dangers of insufficient qualification

WARNING



Risk of injury if you are not sufficiently qualified!

Improper handling of the signal light can result in serious personal injury and property damage!

- ▶ Only allow qualified personnel to carry out any work.

2.5.15 Dangers posed by Reinigungsflüssigkeiten

WARNING



The signal light poses hazards due to cleaning fluids!

Failure to observe this warning may result in serious injury!

- ▶ When handling the product, observe the safety regulations applicable to cleaning fluids.
- ▶ Always wear the protective equipment required for the respective task (respiratory protection, protective clothing, safety goggles, and protective gloves) while working.

2.5.16 Note on environmental influences

NOTE

Dust or moisture may cause hazards!

Failure to observe this warning may result in malfunctions!

- ▶ Operate the signal 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 observe this warning may result in loss of function!

- ▶ Observe the ESD regulations.

2.5.18 Note on EMC hazard

NOTE

There is a risk due to insufficient interference emission or interference immunity!

Failure to observe this may result in malfunctions!

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

2.5.19 Note on mechanical stress

NOTE

There is a risk due to vibration or shock!

Failure to observe this may result in loosening or failure!

- ▶ Perform regular checks on the fastenings.

2.5.20 Note on chemical exposure and cleaning

NOTE

Improper cleaning poses a hazard!

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

- ▶ Only use approved cleaning agents. Clean the exterior only with a mild soap solution without using solvents or acids.
- ▶ Do not use sharp-edged tools for cleaning, especially to avoid scratching the optical diffuser.
- ▶ Do not clean with high pressure.

2.5.21 Note on installation errors

NOTE

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

Failure to observe this may result in fastening failure!





- ▶ Install the signal light according to chapter 5 Installation .

2.6 Personal protective equipment

When operating the signal light, personal protective equipment must be worn regardless of the risk assessment for the area of application in order to minimize health hazards. Personal protective equipment must be designed specifically for the relevant risk.

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

The symbols have the following meanings:

Symbol	Description
	Safety shoes Wear non-slip safety shoes to protect yourself from heavy falling objects or slipping on slippery surfaces.
	Work safety clothing Protective workwear is close-fitting workwear with low tear resistance, tight sleeves, and no protruding parts. It is primarily used to protect against being caught by moving parts.signal light
	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 protective helmet to protect yourself from falling or flying parts.

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

In addition, national regulations and specifications from the application area risk assessment and, if applicable, internal instructions from the operator must be observed.

2.7 Information for emergencies

Preventive measures:

- ▶ Always be prepared for accidents or fire.
- ▶ Keep first aid equipment (first aid kit, blankets, etc.) and fire extinguishers handy.
- ▶ Familiarize personnel with accident reporting, first aid, fire extinguishing, and rescue equipment.
- ▶ Keep access routes clear for emergency vehicles.

Measures in the event of accidents:

- ▶ Disconnect the power supply to the signal light.
- ▶ Rescue people from the danger zone.
- ▶ In the event of cardiac and/or respiratory arrest, initiate resuscitation immediately.
- ▶ In the event of personal injury, notify the first aid officer and an emergency doctor or the emergency services.
- ▶ Clear the access routes for emergency vehicles. If necessary, assign someone to direct the emergency services.
- ▶ Löschen Sie einen Brand in der elektrischen Steuerung mit einem CO₂-Löscher.

2.8 Operator's obligations

The signal light is used in commercial applications, and the operator must comply with the statutory occupational safety regulations. In addition to the safety instructions in the operating manual, the applicable safety regulations for the area of application must be observed.

The operator must ensure that the signal light is used properly, that the operating instructions are available on site, and that clear responsibilities for installation, operation, maintenance, and cleaning are defined. Only qualified and trained personnel above the legal minimum age may perform work on the signal 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 signal light have read and understood the Operating and assembly instructions. In addition, adequate virus protection/firewall in the IT infrastructure and compliance with maintenance intervals are required. The operator must regularly check the technical condition of the device and ensure that the safety and warning notices are legible.

3 Description of signal light

3.1 Function description

3.1.1 General

The signal light SL-05-TRIO is an electronic optical signalling device for indicating machine or system statuses. It is designed as a permanently fixed assembly for industrial use and is operated directly with 24 V DC. The device has a robust, anodized aluminum housing and a shatterproof, impact-resistant, and UV-stabilized polycarbonate diffuser that ensures uniform light distribution.

3.1.2 Optical signaling

- Illuminated area: Full-surface, diffuse illumination.
- Color representation: Fixed signal colors (red, yellow, green, blue) in one device.
- LED lights comply with the optical properties specified in the DIN EN 842 standard "Safety of machinery – Visual hazard control signals." The signal color red must have a contrast > 10, while green, blue, yellow, and white signal colors must have a contrast > 5 to ensure reliable visibility against the background.

3.1.3 Electrical connection

- Power supply: Operating voltage 21–27 V DC.
- Current consumption: depending on the selected signal color (see technical data).
- Connection options: M12 connector or 5 m PVC/PVC cable.



3.1.4 Safety features

- Protection class: IP 54, suitable for harsh industrial environments.
- Protection class: III (operation with safety extra-low voltage).
- Electrical safety: Operation in North America (USA/Canada) permitted exclusively with Class II power supply.
- Shock and vibration resistant: Insensitive to mechanical influences.
- Compliance with standards: Meets the requirements of Directive 2014/30/EU (EMC) and Directive 2011/65/EU (RoHS) including extension 2015/863/EU.

3.1.5 Typical areas of application

- Display of operating, warning, and fault states on machines and systems.
- Process visualization in production and assembly lines.
- Signaling in conveyor technology, packaging systems, and testing facilities.

3.2 Technical data

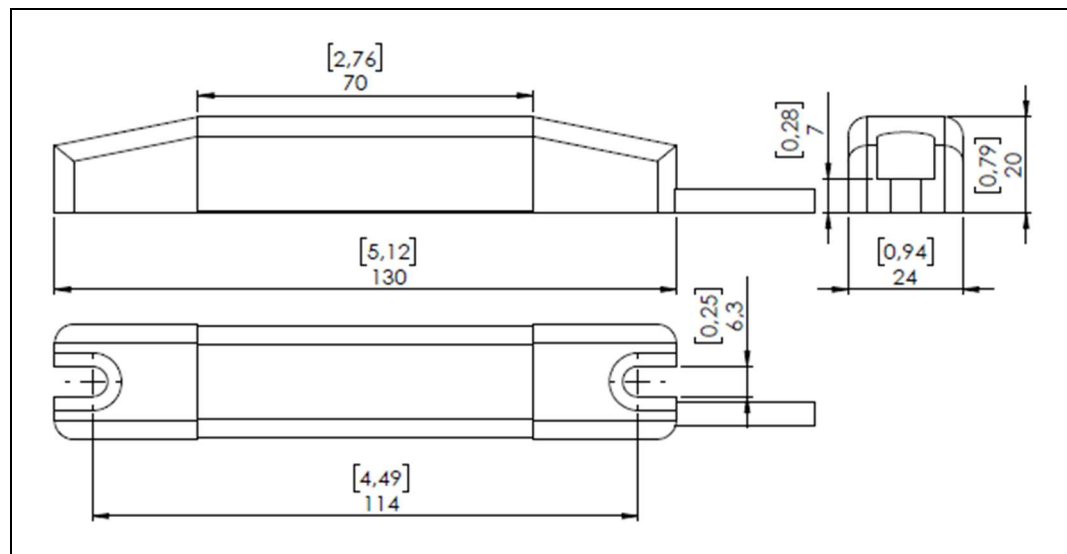
Technical data SL-05-TRIO-M12/LC	
Electrical	
Supply voltage	24 V DC (21 - 27 V DC)
Nominal current consumption	Red: 20 mA, Green: 20 mA, Yellow: 40 mA, Blue: 25 mA
Protection class	III
Permissible power supply	Class 2 (for use in the USA/Canada)
Connection	<p>SL-05-TRIO-M12: M12 plug 200 mm</p>  <p>SL-05-TRIO-LC: 5 m PVC/PVC cable</p>  <p>UL US LISTED</p>
Reverse polarity protection	Internal
Operating mode	Continuous
Mechanical	
Dimensions	<p>SL-05-TRIO-M12 (L × B × H): 130 x 24 x 20 mm / 5,12" x 0,94" x 0,79"</p> <p>SL-05-TRIO-LC (L × B × H): 130 x 24 x 20 mm / 5,12" x 0,94" x 0,79"</p>
Weight	<p>SL-05-TRIO-M12: 100 g</p> <p>SL-05-TRIO-LC: 220 g</p>

3 Description of signal light

3.2 Technical data

Technical data SL-05-TRIO-M12/LC	
Installation position	Any
Mounting	Front mounting with 2× M6 hexagon socket cylinder screws (DIN ISO 4762)
Optical diffuser	Polycarbonate, UV-stabilized
Housing material	Aluminum
Protection and environmental conditions	
Protection class / NEMA	IP54 / Type 3 / IK07
Ambient temperature	-20 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Permissible humidity	40 - 60% (non-condensing)
Meters above sea level	2000 m
Earthquake class	No earthquake zone
Chemical composition	Halogen-free, silicone-free, REACH/ROHS
Optical data	
Luminous colors	Red, green, yellow, blue
light intensity max.	Red 4,5 [cd], green [10.3 cd], blue 1,8 [cd]
Luminance max.	Red 730 [cd/m ²], green 1500 [cd/m ²], blue 225 [cd/m ²]
Maximum background brightness according to DIN EN 842	Red 1500 [lx], green 7300 [lx], blue 1300 [lx]

3.2.1 Dimensions



Dimensions

4 Transport and storage

4.1 Delivery by an authorized transport company

The signal light is delivered to the customer by a transport company authorized by Schrempp electronic GmbH.

4.2 Inspection upon receipt by the recipient

Upon arrival of the signal light at the customer's premises, it must be inspected for visible transport damage.

- Report any transport damage immediately to the delivery company.

4.3 Packaging

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

- Please observe the pictograms on the packaging.

4.3.1 Unpacking

When unpacking the signal light , proceed as follows:

- ▶ Remove the packaging. Dispose of packaging materials such as plastic film and adhesive tape in the appropriate manner.
- ▶ Always remove all packaging before installing the signal light .
- ▶ Keep the original packaging for return/further transport.
- ▶ Check the delivery against your order to ensure it is complete.
- ▶ Be sure to keep the documents supplied, as they contain important information on how to use the signal light .
- ▶ Check the packaging contents for visible transport damage.
- ▶ If you notice any transport damage or discrepancies between the packaging contents and your order, please inform Schrempp electronic GmbH .

4.3.2 Repackaging

See chapter "4.3.1 Unpacking ".

4.4 Information on hazards during transport

WARNING



The following specific hazards may arise when transporting the signal light:

Suspended loads may fall, posing a risk of death!

Protruding edges can cause crushing or cutting injuries!

- ▶ Only use approved load-bearing devices.
- ▶ Always wear the personal protective equipment required for the respective task (protective clothing, protective gloves, protective helmet, and safety shoes) while working.
- ▶ Ensure that you and other people do not stand under suspended loads.
- ▶ Do not use cables or attachments as anchor points.

4.5 Scope of delivery Signal signal light

The scope of delivery of the signal light consists of the following components:

- signal light SL-05-TRIO-M12 or LC signal light
- Quick guide

4.6 Temporary storage

If the signal light is not installed immediately after delivery, it must be stored carefully in a protected location. The signal light must be stored in such a way that it is protected from cold, moisture, dirt, chemical and mechanical influences. The recommended storage conditions for signal light can be found in the chapter "Environmental conditions".



We accept no liability for damage resulting from improper storage!

5 Installation

The signal light is intended for permanent, stationary installation in industrial areas. It is installed on the front of a suitable mounting surface and must be positioned so that the signals are clearly visible to operating and maintenance personnel.

Check the signal light for damage before installation. If there is visible damage, the signal light must not be installed and the manufacturer must be contacted.

5.1 Pre-assembly by Schrempp electronic GmbH

The signal light is completely pre-assembled by Schrempp electronic GmbH . Connection to the machine/system is carried out by the machine/system supplier.

5.2 Information on hazards during installation

WARNING



Improper mounting poses a hazard!

Failure to observe this warning may result in head, hand, or foot injuries!

- ▶ Only fasten the signal light with suitable means and tighten the screws to the specified torque.
- ▶ Exceeding the permissible environmental conditions (temperature, humidity, vibration load) can lead to failure. Check the installation location in advance.
- ▶ Always wear the personal protective equipment required for the work in question (protective clothing, protective gloves, protective helmet, 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 signal light as a climbing aid. Misuse may cause the signal light to break off or be damaged in other ways.
- ▶ Install the signal light so that it cannot be used as a climbing aid.

CAUTION



Risk of tripping due to improperly laid power supply cables!

Failure to comply may result in injury!

- ▶ Always lay cables in such a way that they do not cause a tripping hazard and are barrier-free.
- ▶ Mark unavoidable tripping hazards with color.

CAUTION

Risk of injury due to unsuitable mounting material!

Unsuitable mounting materials can result in injury during operation!

- ▶ If necessary, use only the mounting materials supplied.

5.3 Preparatory measures

5.3.1 General

Before installing the signal light , ensure that:

- additional lighting equipment (e.g., hand lamps) 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 available:
 - Hex key for M6
 - Torque wrench (adjustable)
 - Screwdriver for electrical connections (qualified personnel only)

5.3.2 Preparatory measures for electrical installation

Before installing the signal light , ensure that:

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

5.4 signal lighttight mounting

WARNING

Risk of injury due to instability!

There is a risk of serious injury due to instability of the individual assemblies when mounting the signal light as a result of incorrect mounting!



- ▶ Please note that the mounting surface must be:
 - flat and level
 - has the necessary load-bearing capacity,
 - is temperature-resistant, non-flammable, and
 - vibration-free
- ▶ Only allow authorized and trained personnel to carry out the installation work.
- ▶ Observe the tightening torques for all screw connections during installation.
- ▶ Always wear the protective equipment required for the respective work (e.g., protective work clothing and safety shoes) while working.
- ▶ Avoid installing the signal light in locations that are subject to unacceptable electromagnetic fields.
- ▶ Do not install the signal light in locations where there is a corrosive or explosive atmosphere.
- ▶ Please note that the signal light is only intended for indoor use.
- ▶ Do not use the signal light in EX areas.
- ▶ Observe the ambient conditions.
- ▶ Please note that the signal light must be protected against accidental impact.
- ▶ Please note that with regard to order and cleanliness, care must be taken to ensure that: all wires and cables are neatly laid and covered if necessary, tools in the vicinity of signal light are tidied away, and any parts lying around and waste (if any) are removed regularly.

5.4.1 Mechanical fastening

Proceed as follows during installation:

- ▶ Align the signal light in the intended position.
- ▶ Insert two M6 hexagon socket cylinder screws through the designated mounting holes.
- ▶ Tighten the screws evenly and crosswise (tightening torque: 5–6 Nm, unless otherwise specified by the manufacturer).
- ▶ Check that the light is securely fastened (no play, no twisting).

5.4.2 Electrical connection

- ▶ Select the appropriate connection (M12 or LC).
- ▶ Plug in and lock the connection completely.
- ▶ Check the assignment according to the technical documentation.
- ▶ Only use a Class 2 power supply in North America.

5.4.3 Installation instructions

- ▶ Ensure direct visibility in the intended observation area.
- ▶ Avoid installation locations with strong external lighting or direct sunlight.
- ▶ Protect the light from mechanical impact, vibration, and chemical influences.

6 Commissioning

6.1 Safety measures before commissioning

WARNING



Risk of injury during commissioning!

There are various risks of injury during commissioning.

- ▶ Only allow qualified personnel to perform commissioning.
 - ▶ Cordon off the danger area and keep unauthorized persons away.
 - ▶ Lay power supply cables so that they do not cause a tripping hazard and are barrier-free (e.g., under covers).
-
- ▶ Familiarize yourself sufficiently with:
 - the features of the signal light ,
 - the operation of the signal light ,
 - the measures to be taken in an emergency.
 - ▶ Before initial commissioning, perform the following tasks:
 - ▶ Check the signal light for visible damage; remedy any defects immediately – the signal light may only be operated if it is in perfect condition.

6.2 Connection SL-05-TRIO-M12 / SL-05-TRIO-LC

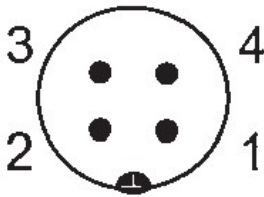
SL-05-TRIO-LC: Signal color:

Brown:	Red
Black:	Green
White:	Blue
Brown + Black:	Yellow
Blue:	GND



SL-05-TRIO-M12: Signal color:

PIN 1:	Red
PIN 4:	Green
PIN 2:	Blue
PIN 1 + PIN 4	Yellow
PIN 3	GND



7 Troubleshooting

WARNING



There are hazards associated with troubleshooting the signal light !

Failure to observe these instructions may result in damage, malfunction, or total failure of the signal light , as well as compromising the safety of the signal light !

- Only qualified personnel should perform troubleshooting.

7.1 Remedial measures

Fault	Cause	Remedy
signal light not working	No power supply	Check power supply and switch on
	Plug not connected correctly	Check and lock plug connections
	Defective power supply	Replace power supply according to specifications
signal light shows incorrect color	Error in the control system or wiring	Check control program and wiring and correct if necessary
signal light flashes or flickers unintentionally	Voltage fluctuations	Stabilize the power supply
	Loose connection in the supply cable or connector	Check connectors and cables
Light surface unevenly bright	Diffuser dirty or damaged	Clean the diffuser
	Defective LEDs	Replace device

8 Mainten and cleaning

8.1 Safety measures during maintenance work

8.1.1 General safety measures during maintenance work

Perform the prescribed maintenance work, such as cleaning and inspections, in a timely manner. Read the chapter "2 Safety ".

- ▶ Block access to the area where the signal light is in use. Ensure that only authorized persons are in the area where the signal light is in use.
- ▶ Replace any defective signal light parts immediately.
- ▶ Use only original accessories and spare parts. The use of other parts will void the warranty and suitability and may result in injury.

After completing maintenance and before using the signal light, perform the following tasks:

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

Modifications, alterations, incorrect and improper use, and failure to observe the instructions in this operating manual will void the warranty.

8.2 Inspection and maintenance work

8.2.1 Maintenance intervals

Maintenance point	Maintenance work	See section
Monthly		
Entire signal light	Visual inspection for damage, secure fit, and contamination.	8.2.3
Entire signal light	Functional test of all signal functions.	
Annually		
signal light	Check electrical connections, mounting screws, and seals.	8.2.44

8.2.2 Preparatory measures for electrical system

DANGER



Danger of death from electric shock!

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

- ▶ Only allow work on electrical equipment to be carried out by a qualified electrician who is specially trained to work on electrical equipment and can recognize and avoid hazards.
- ▶ Before performing maintenance and inspection work on the signal light , disconnect the signal light from the power supply.
- ▶ Secure the signal light against unexpected restarting by locking the main switch with a padlock.
- ▶ Attach a warning sign to the main switch to prevent it from being switched back on.
- ▶ Please note that electrical and electronic components must not be cleaned.

NOTE



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

8.2.3 Maintenance - monthly

8.2.3.1 Visual inspection

- ▶ Check the light surface for scratches, cracks, or cloudiness.
- ▶ Check that the luminaire is securely fixed (no play, no twisting).
- ▶ Check cables and plug connections for damage, corrosion, or loose connections.

8.2.3.2 Cleaning

- ▶ Use a soft, lint-free cloth.
- ▶ Clean the light surface with a mild, non-abrasive cleaning agent.
- ▶ Avoid aggressive solvents (e.g., acetone, gasoline, concentrated acids, chloroform) that can damage the diffuser.
- ▶ Ensure that no moisture penetrates the housing.

8.2.3.3 Function test

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

8.2.4 Maintenance - annually

8.2.4.1 Electrical Check

DANGER



Danger of death from electric shock!

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

- ▶ Only allow a qualified electrician to carry out work on electrical equipment.
 - ▶ Before performing any maintenance or inspection work, disconnect the signal light from the power supply.
-
- ▶ Check all connectors to ensure they are securely fastened and locked.
 - ▶ Check the cables for chafing or crushing.
 - ▶ If necessary, tighten the terminal fastening screws (torque according to manufacturer's specifications).

8.2.5 Replacement of components

- ▶ Not possible. Only replacement of the complete device

9 Decommissioning and dismantling

WARNING

Risk of serious injury due to improper decommissioning or disposal of signal light!

Failure to comply may result in serious injury!



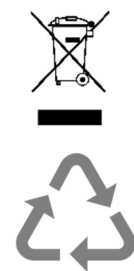
- ▶ Only allow qualified electricians to carry out any work on the electrical system. Qualified electricians are specially trained to work on electrical systems, are aware of the dangers of electrical voltage, and can independently avoid potential hazards by taking the correct action.
- ▶ Only allow qualified or appropriately trained personnel who are experienced in dismantling electrical equipment to dismantle the signal light.
- ▶ Switch off the signal light completely before starting any dismantling work and disconnect it from the power supply at all poles.
- ▶ Always wear the necessary personal protective equipment during work, e.g., protective work clothing, safety shoes, protective gloves, and a protective helmet.
- ▶ If in doubt, contact Schrempp electronic GmbH for technical support or advice on safe decommissioning and disposal.

9.1 Disposal gen

WARNING

Risk of environmental pollution/waste of resources!

Failure to comply may result in environmental damage!



- ▶ Only allow trained and authorized personnel to carry out disposal work.
- ▶ Separate electrical and electronic components in accordance with Directive 2012/19/EU. Separate 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 at your local recycling facility. By disposing of the packaging properly, you help to avoid potential hazards to the environment and public health.
- ▶ Observe 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 The signal light is used exclusively for the optical signalling of machine or system states.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 for compiling the technical documentation:	Schrempp electronic GmbH , Wiesenstrasse 5 , D-65843 Sulzbach/Ts.
Product:	SL-05-TRIO-M12: 11335 / 4262388142765 SL-05-TRIO-LC: 11336 / 4262388142772
Serial number:	See type plate
Function:	The signal light is used exclusively for the optical signaling of machine or system states.

The manufacturer bears sole responsibility for issuing this declaration of conformity. The object 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 of Annex I
- 2011/65/EU + (EU) 2015/863 - RoHS EU Directive, including the essential requirements of Annex II

These products comply with the current requirements of the RoHS Directive for all 10 designated materials (max. 0.1% by weight in homogeneous material for lead, mercury, hexavalent chromium (Cr6+), polybrominated biphenyl (PBB), polybrominated diphenyl ether (PBDE), diphthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), and diisobutyl phthalate (DIBP), and max. 0.01% by weight for cadmium).

Indication of the relevant harmonized standards (or parts thereof) that have been applied, including the date of the standard, or indication of other technical specifications for which conformity is declared, including the date of the specification:

- EN 60947-5-1:2017
- EN IEC 61000-6-2:2019
- EN IEC 61000-6-4:2019
- EN IEC 63000:2019

D-65843 Sulzbach/Ts. , 25.02.2026

Dipl.-Ing. Wolfram Schrempp, CEO