## Technical Data

**Features SLC/SLG440COM**
- **Type**: Safety light grids / light curtains
- **Operating mode**: Protective mode / Automatic
- **Response time**: 10 … 20 ms 10 … 27 ms 10 ... 37 ms
- **Approvals**: EN 61496-1, CLC/TS 61496-2, PL e and SIL 3
- **Dimensions**: 27.8 x 33 mm
- **Resistance to vibrations**: 10 … 55 Hz to IEC 60068-2
- **Resistance to shock**: 10 g, 16 ms to IEC 60028-2
- **Temperature range**: −10 °C … +50 °C
- **Connector**: M12
- **Termination**: IP67
- **Protection class**: IP67
- **Function**: Optical
- **Beam coding**: Double acknowledgement/reset
- **Restart interlock (manual reset)**
- **Diagnostic and setting mode**: Optical
- **Control**: Contactor control
- **Illuminated element/end cap**: LED and 7 segment
- **Status indication**: LED and 7 segment
- **Area protection**: Depending on resolution
- **Application area**: Hazardous point and area protection

### Application

- **Hazardous point and area protection**
- **Safe signal processing**
- **User-friendly**
- **Compact dimensions and low weight**
- **Ecological**

### Industries

- **Heavy industry**
- **Machine tools**
- **Food**
- **Packaging**
- **Elevators and escalators**
- **Automotive**
- **Medical equipment**
- **Material handling**

### Services

- **Product ranges**
- **Industries**
- **Services**
- **Competences**

## Diagram

![Multifunctional Safety Light Curtains](image)

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*101218917*

Ty pographic or pictorial errors that are brought to our attention will be corrected in subsequent issues.
The SLC/SLG 445 - the all-rounder for safe optoelectronics.

- **Features**
  - Double acknowledgement/reset: Ensures reliable detection.
  - Floating and fixed blanking: Allows for flexible adaptation to application needs.
  - Beam coding: Provides distinct identification of objects.

- **Applications**
  - Safety light grids and light curtains: Ideal for protecting hazardous areas.
  - Hazardous point and area protection: Safeguards operators from contact.

- **Technical Specifications**
  - **Dimensions**
    - 27.8 x 33 mm
  - **Resistance to vibrations**
    - 10 g, 16 ms to IEC 60028-2
  - **Resistance to shock**
    - 10 g, 16 ms to IEC 60028-2
  - **Ambient temperature**
    - −10 °C … +50 °C
  - **Protection class**
    - IP67
  - **Connector**
    - M12

- **Product Family**
  - Variants for custom-made concepts: Tailored to specific requirements.

- **Ecological, Resource-efficient, Budget-friendly**
  - New design with 50% less material.
  - Resource-efficient: High protection class - safe and reliable operation under rough ambient conditions.
  - Budget-friendly: Compact design, low operational costs.

- **Competence for Optoelectronics**
  - Competent staff ensuring highest quality standards.

- **Automation**
  - Safe signal processing: Ensures smooth operation.

- **Industries**
  - Suitable for a wide range of industries including automotive, manufacturing, and robotics.

- **Services**
  - Training courses, Precautions taken to assure accuracy of the information provided.

- **Services**

- **Machine safety**
  - Multiple scan, Machine safety is tackling and will continue to tackle in the future.

- **Explosion protection**
  - Robust: The closed sensor profile offers optimal protection under extreme mechanical loads.

- **Hygienic design**
  - Integrated set-up tool and large status indicator.

- **Machine safety**
  - Restart: New design with 50% less material.

- **Call to Action**
  - www.schmersal.com
Multiple Solutions

- Efficient:
  - Simple control and easy setting of time delays
  - Easy visualisation
  - User-friendly programming languages

- Resource-efficient:
  - New design with 50% less material
  - Compact dimensions and low weight
  - High protection class - safe and reliable operation under rough ambient conditions

- Ecological:
  - New design with 50% less material
  - Compact dimensions and low weight
  - High protection class - safe and reliable operation under rough ambient conditions

- Unique:
  - No other manufacturer integrates all these functions in one version
  - Adaptable to any application with various sensor options
  - Integrated set-up tool and large status termination
  - Double acknowledgement/reset

- Special operating mode
  - Restart interlock (manual reset)
  - Special operating modes
  - Multiple scan
  - Beaming codes

- Applications
  - Heavy industry
  - Machine tools
  - Packaging
  - Elevators and escalators
  - Medical technology
  - Training courses
  - Stop time measurements
  - Risk assessment in accordance with the EN ISO 13849, EN 62061

- Technical data
  - Response time
  - Approvals
  - Dimensions
  - Resistance to vibrations
  - Ambient temperature
  - Protection field height

- Safety light grids / light curtains
  - EN 61496-1, CLC/TS 61496-2, PL e and SIL 3

- Contactor control
  - Function: Illuminated element/end cap

- SLC/SLG 440 - 445
  - The all-rounder for safe optoelectronics
  - The multifunctional
  - Robust
  - Compact dimensions and low weight
  - Efficient
Market requirements and application usage

Optoelectronic safety devices

- Protection of cluttered production areas (double acknowledgment)
- Flexible conveyor system (differentiation between people and material)
- Robotics and assembly cells (zone protection)
- Presses and other equipment of the metal processing industry (hand and finger protection)
- Assembly workstations (hand and finger protection)

The SLC/SLG 440-445 product series are an efficient solution for automated process cycles, offering the highest protection expenditure and keeps the operator informed about the current operating status when the machine is running.

The all-round All-rounder SLC/SLG 445 Multifunctional makes it ideal for compact constructions. All standard functions are present but no more. The profile length corresponds to the protective field height to allow for optimal installation with the application.

The compact solution SLC/SLG 440-445 that are based on the same technology and construction form, and cover all requirements.

Advantages

- Simple and quick - without tools
- Save new configuration
- Contactor control active
- Very fast implementation
- Simple menu navigation
- Easy to use when setting up and entering the parameters with its 7 segment display.
- User-friendly parameter setting, no tools required
- Reliable safety concept in case of interferences (EMC, welding sparks)
- Process safety with highest availability
- Multiple sampling ensures trouble-free operation.
- Bridge of object gaps
- Partial muting height
- Cyclic operation
- Multiple sampling
- Area and hazardous point protection
- Enable input muting
- Bridging of object gaps
- Partial muting height
- Cyclic operation
- EDG contactor control
- Automatic and restart interlock mode
- Configurable muting
- Multifunctional
- Double acknowledgement

Purchase the SLC/SLG 440-445 online on our website for immediate delivery and be on the safe side.

Note: The product images are for illustrative purposes only and do not depict the actual appearance of the SLC/SLG 440-445 product range.
Market requirements and application usage

Optoelectronic safety devices

Protection of cluttered production areas (double acknowledgment).

Presses and other equipment of the metal processing industry (hand and finger protection)

Application usage of safety light barriers and light grids are varied. Some examples:

- Integration of the protection equipment in the production processes.
- A cost effective standard solution without any additional functions, others require just these functions to ensure an optimal setup and are operational quickly. A high level of availability is a prerequisite. Some machine and plant manufacturers are seeking solutions that are capable of adapting to their specific needs.

The users of opto-electrical protection equipment prefer systems that can be easily integrated in the surrounding structure. Solutions are expected to be user-friendly, parameter setting should be simple and quick - without tools. Additionally, they require reliability, availability, and status and diagnostic indication. Beam coding, muting with movable edge region, and the possibility to adjust parameters without external tools are essential features.

The SLC/SLG 440 - 445 product series are an efficient solution for automated process cycles, offering the highest protection level. They are based on the same technology and construction form, and cover all requirements.

This requirement profile shows: There has to be more than just one range. That is why Schmersal has developed the three product ranges SLC/SLG 440-445 that are based on the same technology and construction form, and cover all requirements.

Overview

- Availability and status
- User-friendly set-up tool
- Status and diagnostic indication
- Beam coding
- Blanking with movable edge region
- Stationary and dynamic object blanking
- EDMA contactor control
- Automatic and restart interlock mode
- Multiple sampling
- Cyclic operation
- Muting
- Multiple sampling

Example: Activate contactor control

Enable input muting
Belt-stop and override
Partial muting height
Muting END extension
Bridging of object gaps
Arrangement of MS sequential or diagonal
Muting signals 2 or 4

Multi functional parameters settable

Profitable hazardous point protection featuring low space requirements, undisturbed access to the process and the highest user comfort. Profitable hazardous point protection featuring low space requirements, undisturbed access to the process and the highest user comfort.

No tools required
Simple menu navigation
Parameter setting
PC and software and permanently saved.
The function selection is implemented in parameter setting mode. To that effect, the 7-segment display offers a parameter setting.

Advantages

- Very fast implementation
- No tools required
- Simple menu navigation
- Parameter setting
- Contactor control function available
- Contactor control not active
- Save new configuration
- Cross the protected area and release
- Operational release
- Actuate command device S1
- Cross the protected area and release
- Operational release
Multiple Cyclic operation

Optoelectronic safety devices

- Protection of cluttered production areas (double acknowledgment).
- Flexible conveyor system (differentiation between people and material).
- Presses and other equipment of the metal processing industry (hand and finger protection).
- Assembly workstations (hand and finger protection).

Application usage of safety light barriers and light grids are varied. Some examples:

- Integration of the protection equipment in the production processes.
- A cost effective standard solution without any additional functions, others require just these functions to ensure an optimal performance and are operational quickly. A high level of availability is a prerequisite.
- Some machine and plant manufacturers are seeking solutions that can be easily integrated in the surrounding structure and effortlessly implemented if changes to the process lead to modified settings such as fixed and dynamic object blanking functions, which can be parametrized without any tools whatsoever (PC / software). The protective targets can be smoothly adapted to the user. It provides for a smooth and flexible adaptation to any machine concept by means of the integrated multi-functional parameters settable.

The SLC/SLG 440-445 product series are an efficient solution for automated process cycles, offering the highest protection expenditure and keeps the operator informed about the current operating status when the machine is running.

The all-rounder for your safety – SLC 445

- Multi-scan
- The all-round All-rounder
- SLC/SLG 445 Multifunctional
- The compact solution
- Universal usage, easy to use when setting up and entering the parameters with its 7 segment display.

For classical safety requirements

- SLC/SLG standard
- Blanking with movable edge region
- Stationary and dynamic object blanking
- Double acknowledgement/reset
- EDM contactor control
- Configurable muting
- Automatic and restart interlock mode
- Area and hazardous point protection

Advantages

- No tools required
- Simple menu navigation
- Enable input muting
- Cross the protected area and release
- Actuate command device S1
- Actuate command device S2
- As soon as anyone enters the hazardous area, the function "Double acknowledgment" is triggered and the acknowledgment button is pressed on the front panel of the device. The solution: the SLC/SLG 440-445 integrates a range of advanced safety functions, making it ideal for compact constructions. All standard functions are present but no more. The profile length corresponds to the protective field height to allow for optimal installation with the application.

Availability and status

- User-friendly setup tool
- The function selection is implemented in parameter setting mode. To that effect, the 7-segment display offers a parameter selection, which is selected in a user-friendly manner by means of a command device (button/enabling switch) instead of a menu navigation.

The function "Enable input muting" provides a way to stop the process when a person accidentally enters the protected area. The function "Automatic and restart interlock mode" guarantees that the machine will not restart automatically if a person is in the hazardous area. The function "Area and hazardous point protection" is used to detect objects near the machine and stop the process if necessary.

The SLC/SLG 440-445 offers a wide range of advanced safety functions, making it an ideal solution for a variety of industrial applications.
Market requirements and application usage

Optoelectronic safety devices

- Protection of cluttered production areas (double acknowledgment)
- Flexible conveyor system (differentiation between people and material)
- Robotics and assembly cells (zone protection)
- Presses and other equipment of the metal processing industry (hand and finger protection)
- Assembly workstations (hand and finger protection)

Application usage of safety light barriers and light grids are varied. Some examples:

- Integration of the protection equipment in the production processes.
- A cost effective standard solution without any additional functions, others require just these functions to ensure an optimal availability and are operational quickly. A high level of availability is a prerequisite. Some machine and plant manufacturers are seeking solutions that can be easily integrated in the surrounding structure with variable periphery. The integrated set-up tool and status indication (7 segment display) reduce the installation expenditure and keeps the operator informed about the current operating status when the machine is running.

The SLC/SLG 440-445 product series are an efficient solution for automated process cycles, offering the highest protection cycle function. Use for the highest level of productivity and flexibility at the man-machine interface.

The all-rounder for your safety – SLC 445

Area and hazardous point protection

- Cyclic operation
- Muting
- Multiple sampling
- Configurable muting
- Enable input muting
- Partial muting height
- Mutting END extension
- Mutting signals 2 or 4

Multiple sampling

- Usage of safety light barriers in wood and metal processing, where high availability and safety is required due to the rapid and frequent changes in the working process, which can impair the safe operation of the machine. Use of light grids in metal processing, shavings result as part of the working process, which can impair the safe operation of the machine.

The all-round All-Rounder

- Universal usage, easy to use when setting up and entering the parameters with its 7 segment display.
- For classical safety requirements

The compact solution

- SLC/SLG 440 standard product ranges SLC/SLG 440-445 that are based on the same technology and construction form, and cover all requirements.

This requirement profile shows: There has to be more than just one range. That is why Schmersal has developed the three product ranges SLC/SLG 440-445 that are based on the same technology and construction form, and cover all requirements.

Integrated set-up tool

- User-friendly parameter setting, no tools required
- Process safety with highest availability
- Availability and status
- Status and diagnostic indication
- Beam coding
- Blanking with movable edge region
- Double acknowledgement/reset
- EDM contactor control
- Automatic and restart interlock mode
- Cyclic operation
- Muting
- Multiple sampling

Universal usage, easy to use when setting up and entering the parameters with its 7 segment display.

Configurable muting

- Simple and quick - without tools
- Advantages
- No tools required
- Simple menu navigation
- Very fast implementation
- Multi functional parameters settable
- Enables high availability at the man-machine interface
- Operational release
- Actuate command device S1
- Cross the protected area and release
- Release is then carried out.
- As soon as anyone enters the hazardous area of the machine.

The solution: the SLC/SLG 440-445 integrates all functions to ensure safety in the production process, which can impair the safe operation of the machine.

Large production areas which are only partly visible, present multiple risks which include:

- Visible, present multiple risks which include:
- Double acknowledgement

Mad and hazardous point protection

- Multiple sampling
- Configurable muting
- Enable input muting
- Partial muting height
- Mutting END extension
- Mutting signals 2 or 4

Example: Activate contactor control

The function selection is implemented in parameter setting mode. To that effect, the 7-segment display offers a parameter selection menu for the different functions, which can be easily adjusted by the user.
Market requirements and application usage

Optoelectronic safety devices

- Protection of cluttered production areas (double acknowledgment).
- Robotics and assembly cells (zone protection)
- Presses and other equipment of the metal processing industry (hand and finger protection)
- Assembly workstations (hand and finger protection)

Application usage of safety light barriers and light grids are varied. Some examples:

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The SLC/SLG 440-445 product series are an efficient solution for automated process cycles, offering the highest protection. This requirement profile shows: There has to be more than just one range. That is why Schmersal has developed the three product ranges SLC/SLG 440-445 that are based on the same technology and construction form, and cover all requirements.

Parameter setting

Example: Activate contactor control

Configurable muting
- Configurable muting
- Muting signals 2 or 4
- Bridging of object gaps
- Arrangement of MS sequential or diagonal
- Muting END extension
- Partial muting height
- Configurable muting
- Beam coding
- Status and diagnostic indication
- Cyclic operation
- Muting
- Multiple sampling
- Enable input muting
- 2S
- a) optimal
- a) adjust
- a) optimal
- Available

Selected: 
- Area and hazardous point protection
- Safety and profitability - that is what many manufacturers promise. However, we are the only one, who can offer one product featuring this variety of integrated functions without external tools.

Profitable hazardous point protection featuring low space requirements, undisturbed access to the process and the highest user comfort.
### Technical data

<table>
<thead>
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<th>Feature</th>
<th>SLC/SLG440</th>
<th>SLC/SLG445</th>
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<td><strong>Muting connection</strong></td>
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<td><strong>Compact SLC/SLG440</strong></td>
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<td><strong>Safety Control at Mühldorf, the Center</strong></td>
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<td><strong>Product family</strong></td>
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<td><strong>Competence for Optoelectronics of the Schmersal Group</strong></td>
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<td><strong>330 mm … 1770 mm</strong></td>
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<td><strong>−25 °C … +50 °C (V2)</strong></td>
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<td><strong>Application advice</strong></td>
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<td><strong>Resource-efficient:</strong></td>
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<td><strong>Budget-friendly:</strong></td>
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<td><strong>Unique:</strong></td>
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<tr>
<td><strong>Closed sensor profile of the product</strong></td>
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</tbody>
</table>
The Schmersal Group

The Schmersal Group has developed a wide range of Competence for Optoelectronics of the Safety Control at Mühldorf, the Centre of Variants for custom-made concepts Type 4 technical data for the different customer requirements.

### Protective mode / Automatic

<table>
<thead>
<tr>
<th>Range</th>
<th>0.3 ... 12 m, 14, 30 mm</th>
<th>27.8 x 33 mm</th>
<th>10 ... 20 ms, 10 ... 27 ms, 10 ... 37 ms</th>
</tr>
</thead>
</table>

### Approvals

<table>
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<tr>
<th>Standards</th>
<th>Safety level</th>
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<tbody>
<tr>
<td>PL e and SIL 3</td>
<td>PL e and SIL 3</td>
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</tbody>
</table>

### Technical data

- **Dimensions**: 27.8 x 33 mm
- **Resistance to vibrations**: 10 ... 55 Hz to IEC 60068-2
- **Protection field height**: 330 mm … 1770 mm
- **Resistance to shock**: 10 ... 55 Hz to IEC 60068-2
- **Ambient temperature**: −10 °C … +50 °C

### Features

- **SLC/SLG440COM**: Standard
- **SLC/SLG440 Standard**: Multifunctional
- **SLC/SLG445 Multifunctional**: Standard

### Protective light grids and light curtains

- **Application**: 170 mm … 1770 mm, 14, 30, 35 mm
- **Hazardous point and area protection**: 0.3 ... 20 m, 14, 30 mm

### Parameters

- **Beam coding**: 4 and 12 pin
- **Status indication**: Optical
- **Synchronisation**: Optical
- **Safety outputs**: 2 x PNP (timing)
- **Diagnostic and setting mode**: LED and 7 segment

### Other features

- **Muting connection on the area protection**: Double acknowledgement/reset
- **Double acknowledgement/reset**: Floating and fixed blanking
- **Failure transmission and evaluation of the information provided by these principles**: EN ISO 13849, EN 62061
- **Diagnostic and setting mode**: EN ISO 13849, EN 62061

### Budget-friendly: New design with 50% less material
- **Resource-efficient**: High protection class - safe and reliable
- **User-friendly**: No other manufacturer integrates all these functions and benefits

### Conclusion

- **Motivated by the vision of a safe working environment**, the Schmersal Group's engineers are constantly working on the development of new devices and systems for every imaginable application and requirement of the different industries. New safety concepts require new solutions.

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Precautions have been taken to assure accuracy of the information in this catalogue.