

Safety light barriers

SLB 240, SLB 440, SLB 450



SLB 240, SLB 440, SLB 450

Smallest safety light barriers in the world with integrated evaluation electronics

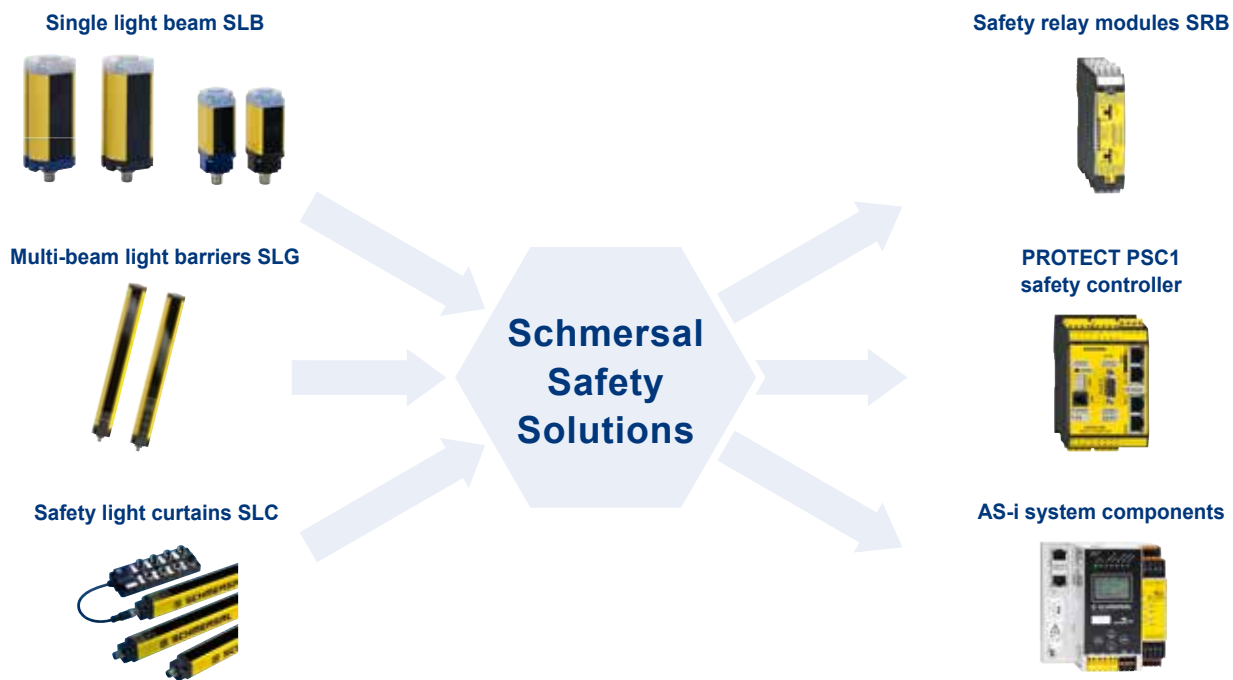
The new safety light barriers SLB 240 to SLB 450 are very compact and feature integrated evaluation electronics in accordance with the latest IEC 61496-1, -2 standard for safety devices that function without contact. The type 2 and type 4 version of the product family is designed without external safety evaluation and can be implemented directly in the safety circuit.

All versions have a visual configuration aid, which simplifies commissioning considerably. The SLB versions offer a 4-stage coding. This means that up to 4 sensor pairs can be used in an application in one direction without reciprocal influence. Parameterisation takes place without the assistance of a PC or commissioning system. All that is needed is a command device (button). The modes of operation available are setup, automatic or restart and also diagnosis. The SLB 450 version can be used in outside areas with an integrated heater for very low temperatures and monitors access areas up to a distance of 75 m.

The unique product family of the SLB 240/440/450 series can be used for various applications in processing centres for assembly/handling as well as in the timber, paper and print industry, high shelf warehouses or packaging machines.

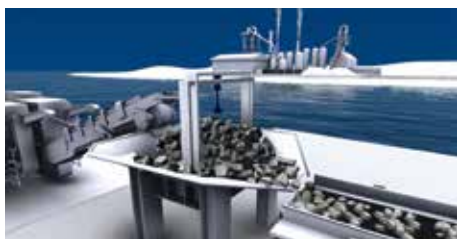
Overview

Integrated optical system solutions



Applications

Solutions for a broad range of applications



Overhang

- Shelving overhang, access protection (slots, edges, small openings)



Height detection

- Detection of objects
- Protection against crushing



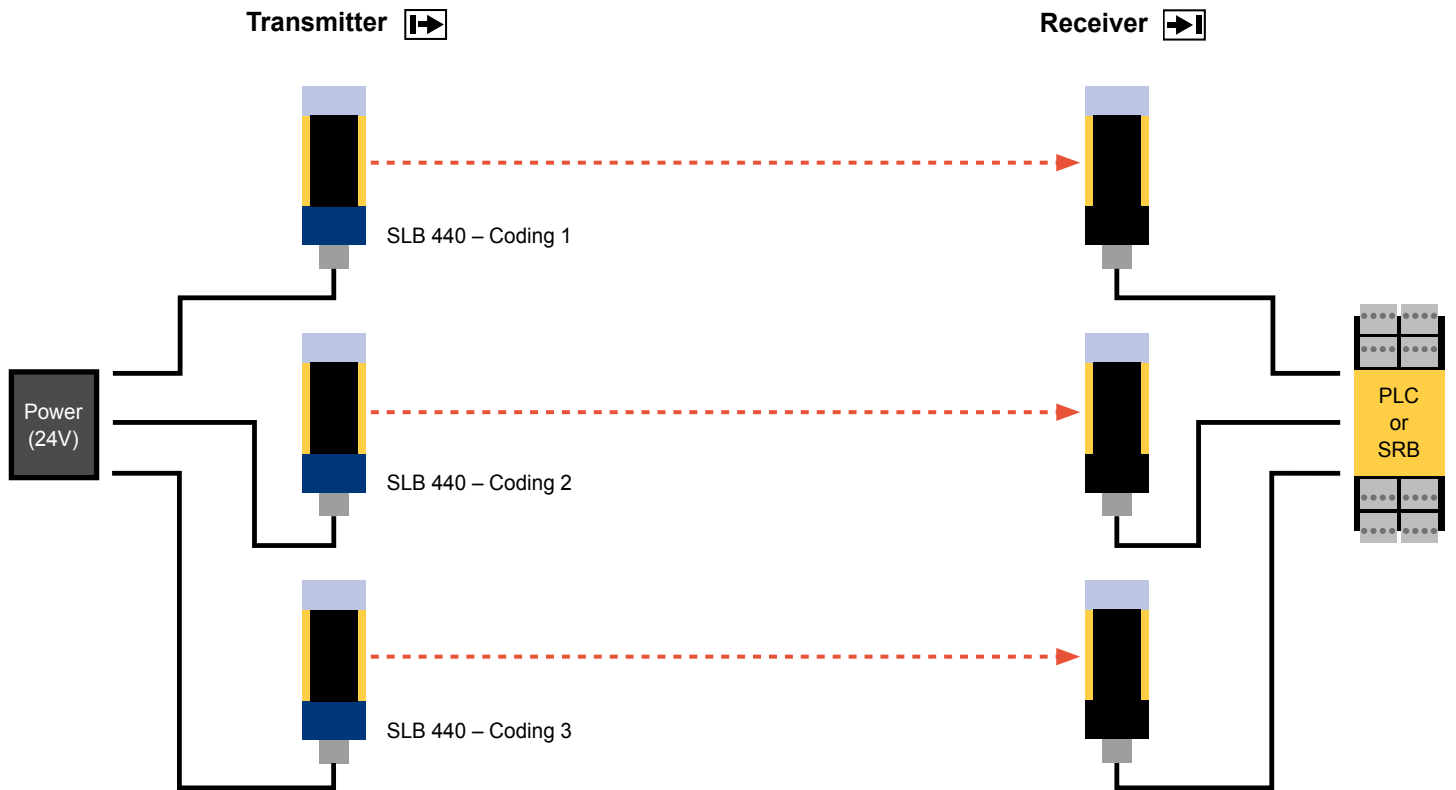
Long Range

- Area protection with deflecting mirror, range up to 90 m (reserve)

Key Features

Product group SLB

- Compact construction with integrated safety-monitoring module
- No additional evaluation necessary
- Safe OSSD outputs to PLe
- Automatic start or restart interlock
- Sturdy metal enclosure with M12 connector or cable
- Version with heater for outdoor applications down to -30°C
- Height range: 75 m (Reserve up to 90 m)
- Set-up tool and diagnostic indication



No optical influence of systems if several light barriers are used thanks to 4-stage coding

Product series SLB



SLB 240 (Type 2)

- Range 15 m
- W×H×L 28×32×72 mm
- Smallest construction form with integrated evaluation electronics



SLB 440 (Type 4)

- Range 15 m
- W×H×L 28×32×91 mm
- Connector and cable version



SLB 450 (Type 4)

- Range 75 m (typically 90 m)
- D×H 49×126 mm
- Optional heater, frost-free to -30°C



The Schmersal Group

The privately-owned Schmersal Group has been developing and manufacturing products to enhance the safety at work for decades. The company was founded in 1945 and is represented by seven manufacturing sites on three continents and with its own companies and sales partners in more than 60 nations. In the demanding field of machine safety, the Schmersal Group is one of the international market and competence leaders. Based on a comprehensive product range, the company's approximately 2000 employees develop and design complete solutions for the safety of man and machine.

Customers of the Schmersal Group include „global players“ from mechanical engineering and plant manufacturing and machine users. They benefit from the comprehensive know-how of the company when it comes to the standard-compliant integration of safety technology in the production processes. Furthermore, Schmersal has special sector expertise in the application fields that demand high quality and special characteristics from safety switching systems. These include food production, the packaging industry, machine tool construction, lift engineering, heavy industry and the automotive industry.

Against the backdrop of increasing numbers of standards and directives, tec.nicum offers a comprehensive range of safety services as part of the Schmersal Group services division: Certified functional safety engineers advise customers on selecting suitable safety equipment, CE compliance assessments and risk assessment, on a word-wide basis.

Product ranges



Safe switching and monitoring

- Guard door monitoring (Safety switches)
- Command devices with safety function
- Tactile safety devices
- Optoelectronic safety devices

Safe signal processing

- Safety relay components
- Safety controllers
- Safety bus systems

Automation

- Position detection
- Command and signalling devices

Industries



- Elevators and Escalators
- Packaging
- Food
- Automotive
- Machine tools
- Heavy industry

Services



- Application support
- CE conformity assessment
- Risk assessment
- Upgrading / Retrofit
- Technical planning and implementation
- Training courses

Competences



- Machine safety
- Automation
- Explosion protection
- Hygienic design

Precautions have been taken to assure accuracy of the information in this catalogue. Typographic or pictorial errors that are brought to our attention will be corrected in subsequent issues.

www.schmersal.com

