

## Safety light barriers

SLB 240, SLB 440



# SLB 240, SLB 440

Smallest safety light barriers in the world with integrated evaluation electronics

The new safety light barriers SLB 240 and SLB 440 are very compact and feature integrated evaluation electronics in accordance with the latest IEC 61496-1, -2 standard for safety devices which 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 440-H 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 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

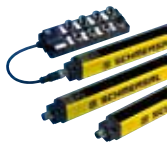
Safety light barrier SLB



Safety light grids SLG



Safety light curtains SLC



Safety relay modules SRB



PROTECT PSC1 safety controller



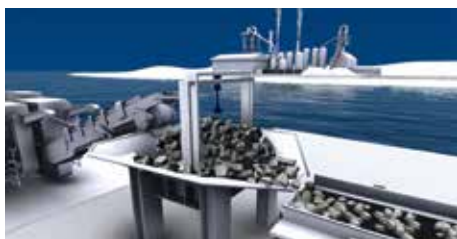
AS-i system components



Schmersal  
Safety  
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



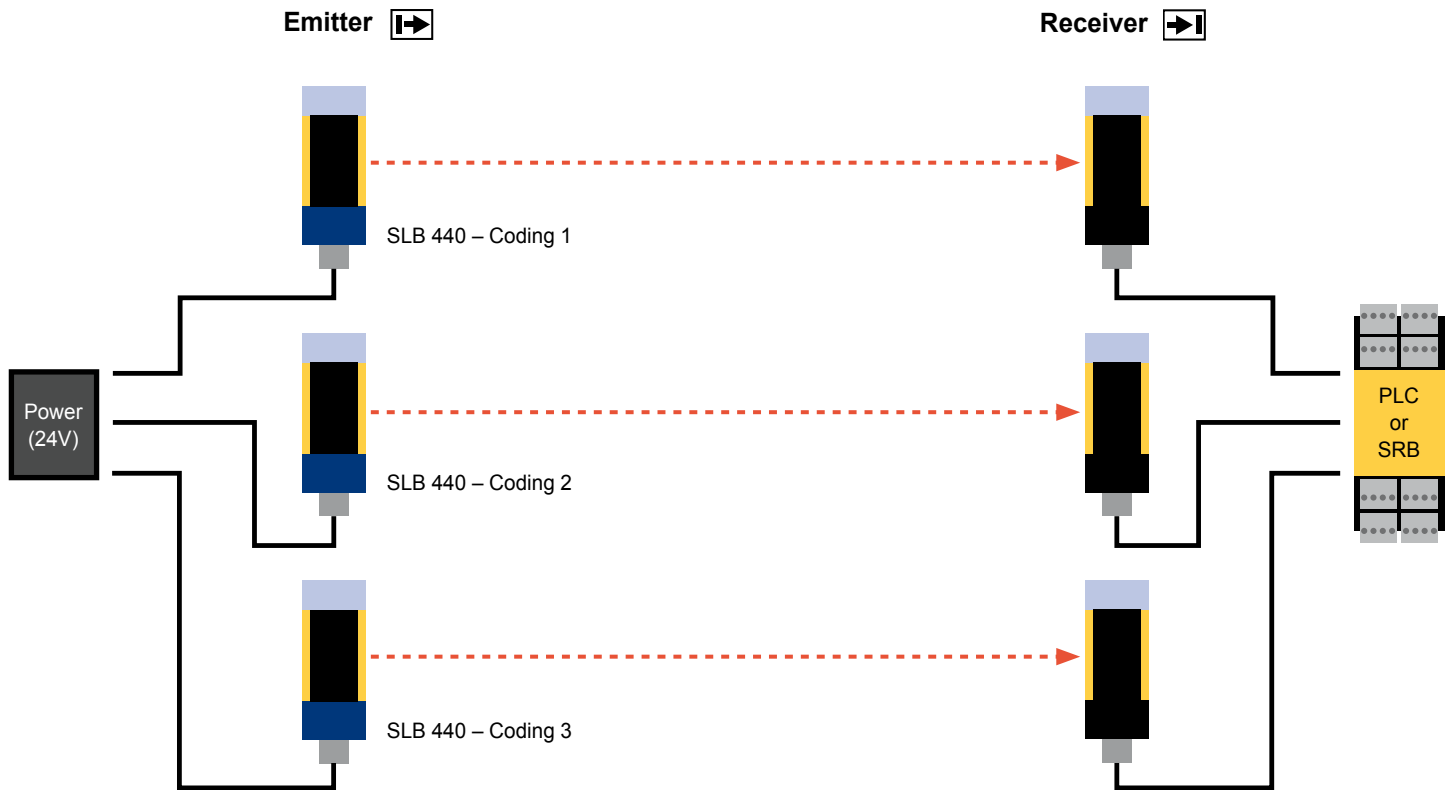
Long Range

- 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  $-30^{\circ}\text{C}$
- 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 440-H (Type 4)**

- Range 75 m (typically 90 m)
- W×H×L 28×32×131 mm
- Optional heater, frost-free to  $-30^{\circ}\text{C}$



# The Schmersal Group

In the demanding field of machine safety, the owner-managed Schmersal Group is one of the international market and component leaders. The company, which was founded in 1945, has a workforce of about 2000 people and seven manufacturing sites on three continents along with its own companies and sales partners in more than 60 nations.

Customers of the Schmersal Group include global players from the area of mechanical engineering and plant manufacturing as well as operators of machinery. They profit from the company's extensive expertise as a provider of systems and solutions for machine safety. Furthermore, Schmersal specialises in various areas including foodstuff production, the packaging industry, machine tool industry, lift switchgear, heavy industry and the automotive industry.

A major contribution to the range of products and services offered by the Schmersal Group is made by tec.nicum with its comprehensive range of services: certified Functional Safety Engineers advise machinery manufacturers and machinery operators in all aspects relating to machinery and occupational safety – and do so with product and manufacturer neutrality. Furthermore, they plan and realise complex solutions for safety around the world in close collaboration with the clients.

## Safety Products



- Safety switches and sensors, solenoid interlocks
- Safety controllers and safety relay modules, safety bus systems
- Optoelectronic and tactile safety devices
- Automation technology: position switches, proximity switches

## Safety Systems



- Complete solutions for safeguarding hazard areas
- Individual parametrisation and programming of safety controllers
- Tailor-made safety technology – be it for individual machines or a complex production line
- Industry-specific safety solutions

## Safety Services



- tec.nicum academy – Seminars and training
- tec.nicum consulting – Consultancy services
- tec.nicum engineering – Design and technical planning
- tec.nicum integration – Execution and installation

The details and data referred to have been carefully checked.  
Technical amendments and errors possible.

[www.schmersal.com](http://www.schmersal.com)



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