

SCHMERSAL Tech Briefs:

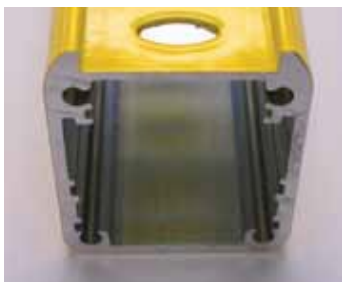
SLC440COM Compact Safety Light Curtains



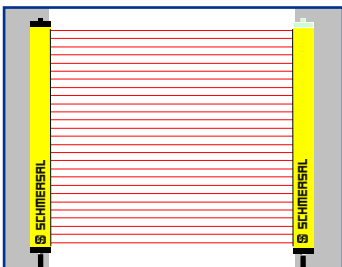
cULus

CE

Features



Rugged closed housing profile



Protection height runs full length



Output and reset status LED endcap



IP69 rated enclosure option for wash down applications

Overview

The SLC440COM Series is a version of the SLC440 Type 4 safety light curtains and grids designed without the 7 segment display or many of the integrated functions, offering only automatic and re-start modes. This series offers a cost effective option to machine builders and manufacturing facilities to select an appropriate safety light curtain for an application that may not need the functions integrated in the standard SLC440 series.

A major benefit of the SLC440COM is the zero dead space design which provides customers with a full protected height for the entire length of the light curtain. This is ideal for applications with space limitations or that require full length protection.

Operating status is clear and can be seen from a distance. The end cap of the receiver unit is molded from a semitransparent plastic that is illuminated by LED. It shows green for proper operation, solid amber for reset status, and red for a fault. Additionally, ease of alignment is provided by flashing amber on the end cap at different pulse frequency.

The SLC440COM series features a one-piece extruded reinforced housing in a compact 28 mm x 33 mm rectangular profile. This housing profile has proven to be less susceptible to mechanical damage and misalignment from torsion or bending.

Options are also available for the SLC440COM to be factory sealed within an IEC 60529 IP69 enclosure. This allows the curtains to be used in areas where they may be exposed to high pressure or high temperature wash downs or ECOLAB approved cleaning agents.

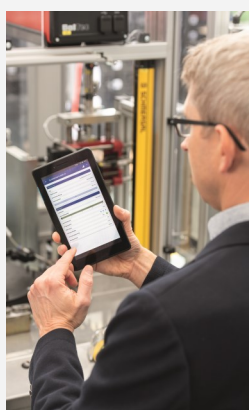
SLC440COM Safety light curtains are used for the protection of hazardous areas, and are available with resolutions of 14, 30, or 35 mm and protection field heights between 330 and 1930 mm. They are also available for perimeter guarding as safety light grids (SLG440COM) with 2, 3, or 4 beams. The series is suited for use in safety circuits up to PLe (EN 13849) or SIL3 (IEC 61508).

Bluetooth™ interface and SLC Assist app

Now a standard feature, integrated in all SLC440COM, a Bluetooth™ Low Energy system provides secure data transmission up to 5 meters. The data transmitted is accessible by the Schmersal **SLC Assist** App, available for Android and iOS smartphones and tablets.

Advantages of the data interface:

- Installation alignment aid
- Real-time status information
- Quickly resolve faults
- Device information
- Documentation



Applications

- Power-driven machines
- Power presses for the metal and plastics industry
- Folding or brake presses
- Filter presses
- Punching machines
- Robot cells
- Welding booths
- Printing machines
- Injection molding
- Materials handling
- Palletizers
- Packaging equipment

Available Literature



Optoelectronic Devices Catalog

Ordering Details

SLC440COM-ER①-②

- ① Protection Height: (mm)
- | | | | |
|--------|-------|-------|--------|
| 0330 | 0410 | 0490 | 0570 |
| 0650 | 0730 | 0810 | 0890 |
| 0970 | 1050 | 1130 | 1210 |
| 1290 | 1370 | 1450 | 1530* |
| 1610* | 1690* | 1770* | 1850*† |
| 1930*† | | | |
- ② Resolution: (mm)
- | | |
|----|----------------------------------|
| 14 | with range: 0.3 m to 7 m (* 6 m) |
| 30 | with range: 0.3 m to 10 m |
| 35 | with range: 0.3 m to 7 m († 6 m) |

Mounting hardware included

Accessories

Connector cables

For emitter, and receiver in Automatic Reset
M12, 4 pole connector

KA-0804	5 m cable
KA-0805	10 m cable
KA-0808	20 m cable

For receiver in Manual Reset:

M12, 5 pole connector	
103010816	5 m cable
103010818	10 m cable
103010820	15 m cable

IP69 Enclosure

PH-COM4-ER-①

- ① Protective Heights: (mm)
- | | |
|----|-------------|
| 01 | 170...490 |
| 02 | 500...890 |
| 03 | 900...1290 |
| 04 | 1370...1770 |

Safety light curtain and enclosure must be ordered separately but will be delivered as a complete sealed IP69 unit from factory.

Mounting

MS-1100	Mounting kit
MS-1110	Center support
MSD5	Spacers

Deflection mirrors

ULS-M-①

- ① Heights (mm)
- | | | | |
|-----|------|------|------|
| 350 | 500 | 650 | 800 |
| 950 | 1250 | 1550 | 1700 |

Compatible Safety Controllers

SRB-E-201LC	SRB-E-322ST
SRB-E-201ST	SRB-E-402ST
SRB-E-301ST	SRB-301MC
SRB-E-212ST	SRB-E-204ST

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