

Features



Rugged closed housing profile



Output and reset status LED endcap



7 segment & LED display



IP69 rated enclosure option for wash down applications

Overview

Schmersal's SLC440 Series are Type 4 Safety Light Curtains that incorporate a full range of common and unique application functions which are completely configurable without the need of a special tool or software.

The SLC/ SLG 440 series offers numerous functions as standard features: fixed blanking, floating blanking, fixed blanking with movable edge region, double reset, contactor control (EDM), automatic mode, re-start mode, and beam coding. Set up is simplified as selection and configuration of these functions are made via a single push-button and the 7-segment display, allowing for a user-friendly method which does not require separate software or costly set-up devices.

Installation of the emitter and receiver units is made easier with the integrated alignment aid. This function tests the first and last beams for alignment and displays the results on the 7-segment display. Once both are situated properly, the display can be changed over to show signal strength, to allow for fine tuning the alignment.

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. Also, the 7segment display which was so helpful in set up, now displays error codes and flashing signals to report specific faults and problems.

The SLC440 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 SLC440 to be factory sealed within an IEC 60529 IP69 rated 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.

Safety light curtains SLC440 are used for the protection of hazardous areas, and are available with resolutions of 14 or 30 mm and protection field heights between 170 and 1930 mm. 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 SLC440, BLE uses the Bluetooth[™] Low Energy system which 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
- Folding or brake presses
- Filter presses
- Punching machines
- Robot cells
- Welding booths
- Printing machines
- Injection molding
- Materials handling and storage technology
- **Palletizers**
- Packaging equipment

Ordering Details

SLC440-E/R2-0-01

Protection Height: (mm) 0250 0330 0490 0570 0650 0730 0810 0890 0970 1050 1210 1290 1130 1370 1450 1530 1610 1690 1770 1850 1930

Bold heights are regularly stocked for 30mm resolution

Resolution: (mm)

14 with range: 0.3 m to 7 m

30 with range: 0.3 m to 10 m

Mounting hardware included

Accessories

Connector cables:

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

KA-0904 5 m cable for receiver 10 m cable for receiver KA-0908 20 m cable for receiver

KA-0974 Programming cable

Deflection mirrors:

ULS-M-①

Mirror Height: (mm) 0350 0500 0650 0800 0950 1250 1870

IP69 Enclosure

10-440-ER-2

Endcap material:

Stainless steel Polyamide Protective Heights: (mm) 170...490 01

02 500...890 03 900...1290 1370...1770

SLG/SLC must be ordered separately at time of order. IP69 enclosed SLG/SLC shipped complete.

Compatible Safety Controllers

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

Bold part numbers are regularly stocked

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Available Literature



Optoelectronic Devices