

SLC445 Multifunctional Safety Light Curtains

with muting, multi-scan, and cyclic functions

Overview

Schmersal's SLC445 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 445 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, beam coding, partial and full muting function, cyclic function, and multiple scan function. Set up is simplified as selection and configuration of these functions are made via a single push-button and the 7-segment display. After completion, the selections are stored in the system. This user-friendly method 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 and red for a fault. Also, the 7-segment display which was so helpful in set up, now displays error codes and flashing signals to report specific faults and problems.

The SLC445 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.

Safety light curtains SLC445 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 1770 mm. The series is suited for use in safety circuits up to PLe (EN 13849) or SIL3 (IEC 61508).

Muting Function

If goods or objects must be transported in or out of the hazardous area without stopping the machine, the safety light curtain must be automatically and temporarily suspended.

To this end, two or four muting sensors are used to detect whether a person is approaching the hazardous area or a transport system enters or leaves the hazardous area.



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 and storage technology
- Palletizers
- Packaging equipment

Available Literature



Optoelectronic Devices Catalog

Ordering Details

SLC445-E/R①-②-01

① Protection Height: (mm)

0170	0250	0330	0410
0490	0570	0650	0730
0810	0890	0970	1050
1130	1210	1290	1370
1450	1530*	1610*	1690*
1770*			

*only for 30 mm resolution

② 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-0980	5 m cable for receiver
KA-0981	10 m cable for receiver

Programming cable

KA-0976	with pushbutton
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Muting accessories

FR-20-PSM4	Muting sensor
RD 83	Reflector, D = 83 mm
MCU-02	Muting connection unit
MK6	Muting Lamp

KA-0904	5 m cable for receiver
KA-0905	10 m cable for receiver

KA-0846	2 m cable-muting sensor
KA-0847	5 m cable-muting sensor
KA-0845	Connector cable from Emitter unit to MCU-02

Additional mounting accessories are available - Individual components or ready to connect sets which include connection unit, muting sensors and reflectors, and mounting hardware.

Compatible Safety Controllers

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

Bold part numbers are regularly stocked

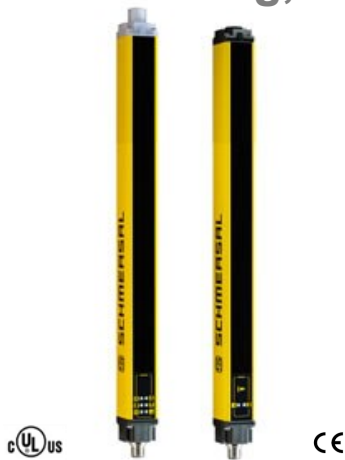
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Accessories



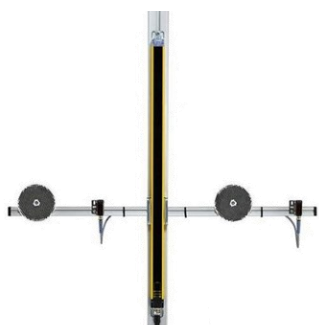
Reflective muting sensor



Muting sensor connection unit



KA-0976 pushbutton



Muting sensor mounting profiles