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.

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 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

Contact

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Ordering Details

SLC445-E/R□-□-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

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

Compatible Safety Controllers
- SRB-E-201LC
- SRB-E-201ST
- SRB-E-301ST
- SRB-E-212ST

Bold part numbers are regularly stocked.

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