

# SCHMERSAL Engineering notes: Safety Light Curtain Accessories

Schmersal offers many accessories to accompany the well tried and tested safety light grids and safety light curtains of the series SLG/SLC440, SLG/SLC440COM and SLG/SLC445. This includes IP69 rated enclosures for hygienic and wash down applications, presorted muting kits for SLC/SLG445 muting applications, vibration dampers for high vibration areas, mirrors for full perimeter monitoring, and protective enclosures with optional protective screens for extremely harsh environments.



## IP69 Enclosure (440/440COM)

A modified polycarbonate tubing to fully enclose the light curtain to provide IP69 protection, to IEC 60529. 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. The endcaps can be ordered in stainless steel or polyamide.

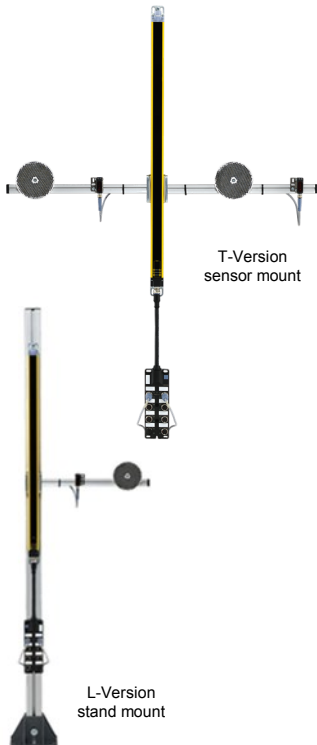
Not available separately. A SLC/SLG unit must be ordered at same time and the factory will deliver as a completely enclosed, sealed unit. For example:

PH440-ER-03 + SLC440-ER-0970-30-01

## Ordering Code\*

- ①-②-ER-③**
- ① Endcap material
    - SH** Stainless steel
    - PH** Polyamide
  - ② SLG/SLC Series
    - 440** SLG/SLC440
    - COM4** SLG/SLC440COM (PH only)
  - ③ Protective Heights
    - 01** 170...490mm
    - 02** 500...890mm
    - 03** 900...1290mm
    - 04** 1370...1770mm

\*SLG/SLC must be ordered separately at time of order..



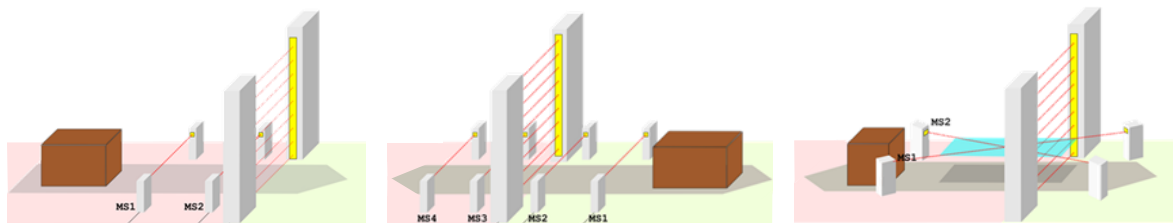
## SLG/SLC 445 Muting Kit

The MUT-SET kit offers all muting accessories under one part number which include the muting sensors (FR-20-PSM4) and reflecting mirrors (R-D83), all connecting cables, mounting brackets and aluminum profiles as well as the muting junction box (MCU-02) for an easy plug-and-play solution with only one cable (KA-0905) to be wired at the control panel.

## Ordering Code

- MUT-SET-L-01** L-Version, stand mount \*
- MUT-SET-L-02** L-Version, sensor mount
- MUT-SET-T-01** T-Version, stand mount \*
- MUT-SET-T-02** T-Version, sensor mount
- MUT-SET-T-03** T-Version, sensor mount
- MUT-SET-T-04** T-Version, stand mount \*

\* set includes the arm(s), but not the MST upright mounting stand, available separately in several heights



2 sensors - 1 directional muting  
MUT-SET-L-01, MUT-SET-L-02

4 sensors - bidirectional muting  
MUT-SET-T-01, MUT-SET-T-02

2 sensors - bidirectional muting  
MUT-SET-T-03, MUT-SET-T-04

## Vibration Dampeners

The MSD4 vibration damper kit (used in conjunction with standard MS-1100 mounting bracket) is recommend to be used for damping vibrations and oscillations on the SLG/SLC, seen in applications with higher mechanical stresses such as presses and punching machines. Two dampeners are included in the delivery of SLC's with a protection height of 1050 mm or higher, to be placed near the center of the emitter and receiver.

## Ordering Code

- MSD4** 8 vibration dampeners





## Deflection Mirror

The use of mirrors allow the infrared beams of the emitter to be deflected at an angle to the receiver, allowing just one set of SLG/SLC's to safely monitor a perimeter.

When using the ULS-M or ULS-SG mirrors, please take note that the range of the SLG/SLC will decrease by 10% with each mirror used, recommended maximum of deflections is 3. ULS-A4 mirrors decrease range by 20%, recommended to use only 1.

In addition, when selecting the mirror, please be sure to order a height which is taller than the protection height of the light curtain.

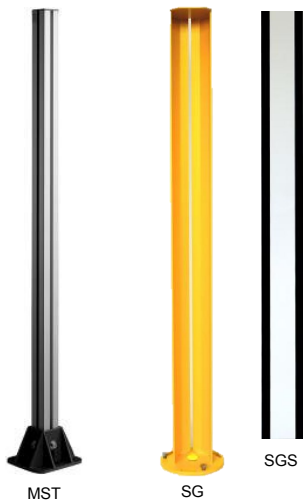
## Ordering Code

### ULS-①-②

① Mirror Type					
<b>A4</b>	1 deflection (6m range max)				
<b>M</b>	1-3 deflections				
② Height (mm)					
<b>A4</b>	<b>M</b>				
<b>0200</b>	<b>0400</b>	<b>0350</b>	<b>0500</b>	<b>0650</b>	
<b>0550</b>	<b>0700</b>	<b>0800</b>	<b>0950</b>	<b>1250</b>	
<b>0850</b>	<b>1000</b>	<b>1550</b>	<b>1700</b>	<b>1870</b>	

<b>ULS-SG-1000</b>	1000 mm mirror used with SG5 and SG6*
<b>ULS-SG-1870</b>	1870 mm mirror use with SG6*

\* SG5/SG6 mounting enclosure ordered separately



## Mounting Stand/Enclosure

The MST mounting stand is an aluminum extruded profile with channels for mounting hardware. It has a 135 x 135 mm base, with heights from 500 to 2000 mm.

The SG mounting enclosure is 4 mm steel and provides light curtains, light grids, or ULS-SG mirrors an additional impact protection from forklifts. It is yellow powder-coated for high visibility.

In addition, a clear PMMA cover is available for the front of the SG enclosure for further protection against dust and debris scratching the light curtain lens.

## Ordering Details

### Mounting stand

#### MST- ①

① Height, including base (mm)				
<b>500</b>	<b>750</b>	<b>1000</b>	<b>1250</b>	
<b>1500</b>	<b>1750</b>	<b>2000</b>		

### Steel Mounting Enclosure

<b>SG5</b>	1334 mm tall For SLC's with protection heights up to 970 mm
<b>SG6</b>	2134 mm tall For SLC's with protection heights up to 1770 mm

### PMMA Safety Screen

<b>SGS5</b>	use with SG5
<b>SGS6</b>	use with SG6

## Additional Information



GoToWebinar

### Webinar recording

Explaining the SLG/SLC options and accessories. Available on request



### OPTO Catalog

36 pages



### Tech Briefs

SLC440COM, SLC440, SLC445

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