

Muting and the Multi-Scan Function

New safety light curtain and safety light grids with additional functions

The Schmersal Group presents the SLC/SLG 445, a new series of safety light curtains and light-grids. The difference to the SLC / SLG 440 series are the additional functions. The functional diversity allows the individual application requirements to be more flexibly adapted - with the aim to have the highest productivity and safety possible.

The mute function is used to have a safe time-limited bridging of the safety light curtain to allow goods or objects to be transported into or out of the danger zone. Muting sensors to detect objects are connected to the safety light curtain to allow this. Communication between the light curtain and the muting sensors is executed by the control unit of the SLC / SLG 445 - series, which also monitors the correct condition of the bridging safety function.

With this, the requirements for the diverse transport variants like the conveyor belt,

pallet operation and the manual feeding and discharging with industrial truck are taken into consideration. Preconfigured settings allow solutions for different sizes of objects, variable transport speeds, material loading with gaps and unforeseeable belt stoppages are available.

The operator is offered an additional precautionary measure to prevent entry into the danger zone with a teachable protection zone (teach-in, pallet height) via a release function the muting application.

For a comfortable "Plug & Play"-Connection for up to four muting sensors, an additional muting light, an override command device and a transmitter. There is a field distributor with an integrated connection cable available, this reduces considerably the cabling effort and increases the availability of the system. The accessories for the muting application are available as a ready to connect set. Individual application settings allow a safe differentiation between man and machine and the prerequisite for increased productivity.

A new function is the "multi-scan" - Multiple evaluations of the protection zone. This increases the availability of the optical electronic protection equipment by suppressing temporary disturbances like flying burrs,

steam clouds and flying insects thus preventing false triggering. Additional supplementary functions are also integrated like cyclic operation, permanent and moveable object suppression and protection control.

The simple integration with the integrated setup mode is already known from the SLC/SLG 440 series as is the set-up directly on the device without additional auxiliary equipment like a PC. The compact construction in a rugged and weight saving 28 x 23 mm profile allows the safety light curtain and the light-grids to be assembled in tight installation situations.

The SLC/SLG 445 series is useable as an opto-electronic protection equipment type 4 according to EN 61496-1 up to Performance Level E according to EN 13849-1 and SIL 3 according to EN 62061.

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