

The C 4000 Entry/Exit Active Safety Light Curtain

The alternative to muting for access safeguarding

The SICK C 4000 Entry/Exit Safety Light Curtains use revolutionary technology to keep assembly lines moving and workers safe. The Entry/Exit is used where materials are automatically transported into the hazardous area of a machine and access by workers must be reliably safeguarded.

Advanced Technology

The C 4000 Entry/Exit from SICK uses advanced Self-Teach Dynamic Blanking technology to discriminate between workers and materials moving through an assembly line. Properties such as the size of the objects, number of objects, distance between objects and speed are used to profile flowing materials in a conveyed application. If the flowing material does not conform to the profile, the safety function in the C 4000 Entry/Exit is activated.

An innovative solution for entry/exit applications, the C 4000 Entry/Exit provides maximum safety and process availability.

Self-contained, Cost-effective Solution

The C 4000 Entry/Exit affords the highest level of safety and has been certified for applications up to Category 4 and SIL3. It provides simple and uninterrupted operations at minimum cost.

SICK's new C 4000 Entry/Exit is an all-inclusive solution that requires no muting sensors, lamps or switches. It is cost-effective and simple to install and maintain. Using the C 4000 Entry/Exit saves nearly half of the installation cost and commissioning time associated with a traditional muting solution.

Already the most versatile and flexible family of light curtain solutions on the market, the SICK C 4000 portfolio also includes the Micro, Basic, Standard and Advanced versions.

Customer Benefits

- Complete hazardous zone safeguarding of horizontal material transport using Self-Teach Dynamic Blanking
- Discriminates between transport skid and worker
- Simple to program and operate. Self-teach based on object properties
- Maximum safety and availability through continuously active light curtain
- Difficult to manipulate or misuse
- Cost-effective, all-inclusive solution. No need for additional safeguarding measures, such as muting sensors, switches, lamps, and swing doors
- Minimal mounting and maintenance costs

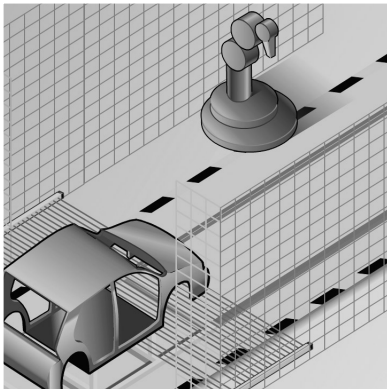
SICK

C 4000 Entry/Exit

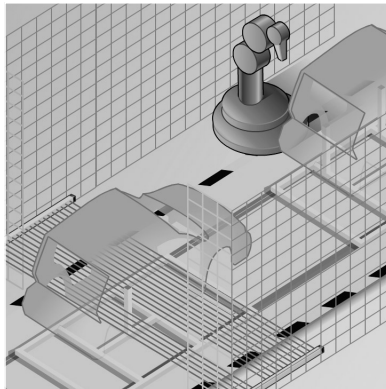
Revolutionary light curtain with integrated differentiation between workers and materials.



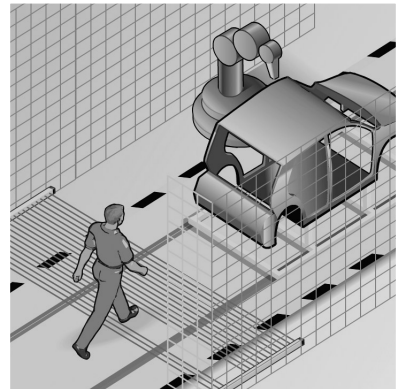
Material transport with continuously active worker/material monitoring



Horizontally mounted light curtain with Self-Teach Dynamic Blanking.



The C 4000 Entry/Exit autonomously detects the various transport systems.



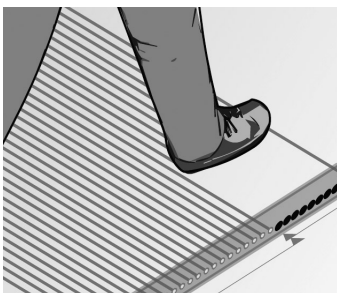
Invalid objects lead to immediate machine stop.

Dynamic Self-Teach Blanking: the cost-effective way to handle industrial transport processes reliably

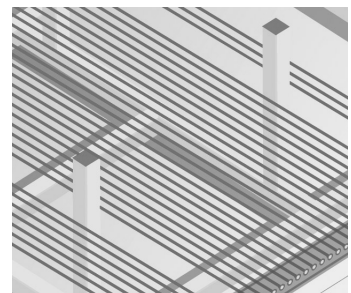
- Range up to 19 m
- Object speed up to 2 m/sec
- Permitted object size (transporter spar) up to 150 mm
- Maximum safety up to Category 4. Compliant with IEC 61496 Type 4 and IEC 61508 SIL 3

Example: automotive industry – new safety philosophy is model for other industrial sectors

- Use in assembly lines in the automotive industry
- Light curtain profiles objects and safeguards access to hazardous areas
- Reliable differentiation between worker and transport system
- Immune to flying welding sparks as a result of internal evaluation logic



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