



Safe Portal

Reliable solution for differentiation between human and material

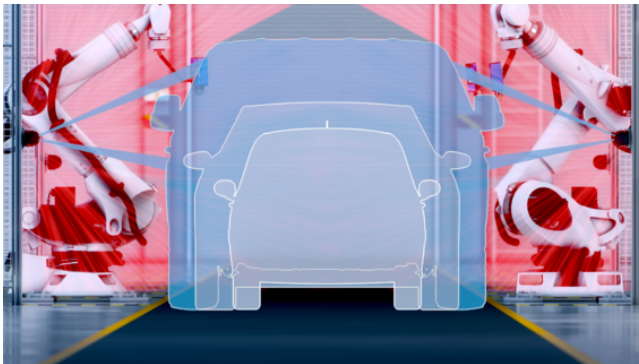
SICK
Sensor Intelligence.

Advantages



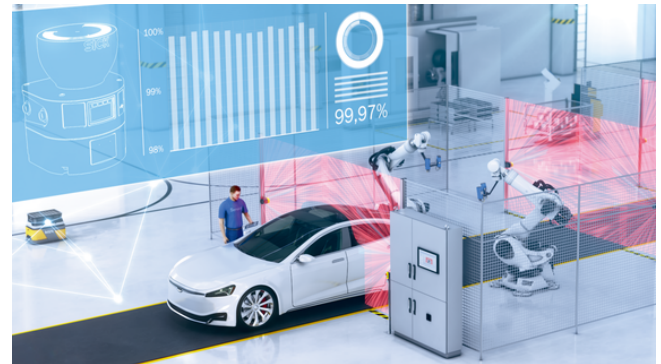
Safe differentiation between man and material

The standardized SICK Safe Portal solution provides you with a certified safety system that meets the requirements of ISO 13849. Access protection in automated material flows is seamless, continuous and flexible. The result: high plant availability.



High level of flexibility

The safety system recognizes vehicle contours in complex production processes. It is used for applications up to performance level d.



End-to-end safety

When a vehicle passes through, the system clears a predefined contour in the protective field. Areas above and next to the vehicle are constantly monitored.

By replacing with swinging doors, maintenance intervals as well as costs and space during commissioning can be reduced.



TÜV-certified system up to performance level d



customized solution

In addition to the standard function module for the Siemens S7 controller, the expert teams from SICK can develop a customized solution and integrate it into the existing infrastructure.



SICK safety expertise

Safety expert teams from SICK evaluate the existing technology, identify potential improvements and support the commissioning of the Safe Portal system. Trust in SICK as your partner for safety solutions.



Comprehensive SICK knowledge for customized solutions



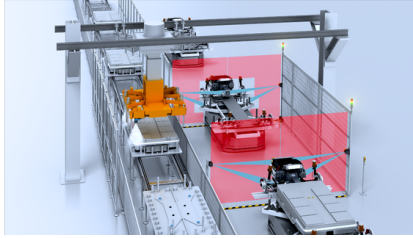
Adaptive access protection for a wide variety of applications

The Safe Portal is a flexible and space-saving system for a wide variety of industries that require a solution without muting sensors. The SICK safety expert teams are available for customizations.



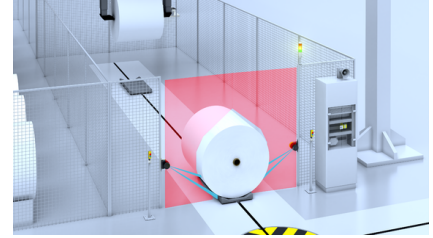
Access protection for palletizing stations

The Safe Portal system automatically adjusts the virtual swinging doors to the different contours of objects such as parcels or blocks of material. In this way, the system ensures safe access to the palletizing station – without any muting.



Contour detection for the integration of battery packs

Thanks to the intelligent contour detection, the protective field can be automatically adapted to the contours of the incoming material (e.g. battery packs). The working area of the robot is constantly monitored as the material arrives thereby enabling a safe material flow.



Reliable object detection based on contour data

Thanks to precise object detection and predefined contours, the Safe Portal system detects paper or metal rolls. The system forwards the data to the machine controller in order to differentiate between people and material.



Seamless safety in the material flow



Technical data overview

Safety task	Access protection
Application	Automated material flow Skillet conveyors

Product description

The Safe Portal safety solution is used for efficient access monitoring at material transfer stations. The standard version consists of two safety laser scanners and a function module for the Siemens S7 controller. The system meets the requirements of EN ISO 13849. The vertically aligned safety laser scanners seamlessly and reliably protect applications up to PL d using adaptive protective field evaluation. Compared to other solutions for differentiation between human and material, this ensures uninterrupted personal safety in any situation. Objects with predefined contours can simultaneously pass through the portal safely. This ensures a flexible production process and high productivity.

At a glance

- TÜV-certified system with permanent protective field monitoring and performance level d
- Detection of objects through adaptive protective field evaluation
- Function block for integration into Siemens S7 controls
- Only two safety laser scanners with vertical alignment of the protective fields required
- The portal allows predefined contours to pass

Your benefits

- You benefit from high plant availability through the use of reliable safety laser scanners – no muting sensors are required
- Allows for adaptive production processes because different vehicles and various contours can pass through
- You save space and money and reduce maintenance costs by replacing swinging doors
- Thanks to SICK's expertise, we can develop a customized solution according to your specifications.
- Reliable protection in every situation thanks to active safety devices: no safety gaps during material passage

Fields of application

- Access protection on production lines, e.g. in vehicle manufacturing, production of household appliances or large paper or metal rolls
- Protection of transfer or repositioning stations on skillet conveyors, floor conveyors or roller conveyors
- Protection of material transfer stations which AGV or AGCs drive through

Ordering information

Other models and accessories → www.sick.com/Safe_Portal

- **Variant:** Siemens S7
- **Interface:** PROFINET

Product type	Connection type	Alignment of scan plane	Type	Part no.
Hardware	M12 female connector, 4-pin, D-coded	Vertical	SYS/ SPOS7VE0SASA02MS3	1115179
System (hardware and software)	M12 female connector, 4-pin, D-coded	Vertical	SYS/ SPOS7VE4SASA02MS3	1119559
	RJ45 push-pull AIDA	Vertical	SYS/ SPOS7VE4SASA02MS3	1119560
Software	-	<p> </p>	SOW/SPO-S7VE4SASA0	1115180

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com