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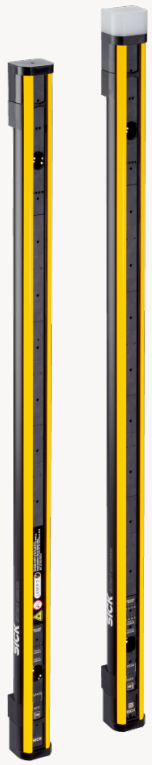


PRODUCT OVERVIEW

deTem

Safety light-beam sensors

SICK Sensor Intelligence



SAFETY MULTIBEAM SENSORS

deTem

Efficient access protection

The deTem safety light-beam sensor offers high flexibility and efficiency in access protection and human-material differentiation in automated material flows. Useful functions of the safety light-beam sensor simplify and speed up the alignment process, thereby saving time during installation. The NFC and IO-Link interfaces form the digital basis for error and cause analysis. This can be carried out both on site and remotely. SICK also provides scalable function packages: from Core variants to flexibly configurable muting. Choose what best suits your requirements and move into the future with confidence.

deTem AT A GLANCE

BENEFITS

- With deTem, you can flexibly and efficiently protect single- and multi-sided access means to hazardous areas
- The safety light-beam sensors are quick and easy to align, saving you valuable time
- Combine safety with automation and also use sensor data for upstream and downstream processes
- Wide range of options for smart differentiation between man and material
- Scalable function packages give you the choice: from Core variants to flexibly configurable muting
- Consistent implementation in your machine design: deTem and deTec are based on a standardized platform

FEATURES

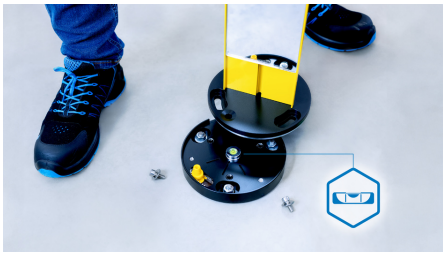
- Large scanning range: up to 90 m in a compact housing
- Integrated alignment aids: Status LEDs and alignment laser with a visibility of 90 m
- Remote and on-site diagnosis via IO-Link and NFC
- Flexible 2- and 4-signal muting
- Core variants for cost-efficient protection
- Standardized connection, operating and accessories concept

ADVANTAGES



Produce quickly instead of losing time

The profitability of an investment begins with quick commissioning. The deTem safety light-beam sensors are ready to use in no time at all – thanks, among other things, to the integrated laser alignment aid and the intelligent column concept. Displays with multi-colored status LEDs and a top LED directly on the device provide additional support.



Simply aligned
Alignment is child's play for both single-sided and multi-sided access protection: like the device column, the mirror column is rotated and aligned directly on the base plate.



Precisely adjusted
The integrated laser alignment aid, which is visible at up to 90 m, and the micro-alignment function ensure precise alignment of the deTem devices.



Ready for immediate use
All deTem variants are equipped with standardized connections, brackets and accessories to ensure they are ready for use quickly. The wiring is standardized with M12 connectors.

→ Revolutionary simple alignment concept



SINGLE-SIDED, MULTI-SIDED, VERSATILE

The deTem safety light-beam sensors are particularly economical for protecting large areas and access means. They monitor access to a hazardous area that people enter regularly but not frequently, e.g., to interact with a machine. Simply select the ideal function package for you according to the situation on-site and the required scanning range.



Access protection up to 7 m
The deTem A/P variants are ideal for protecting small access means. These consist of an active part with a sender and receiver unit, and a passive, cable-free part. This minimizes the installation effort and increases the cost-effectiveness.



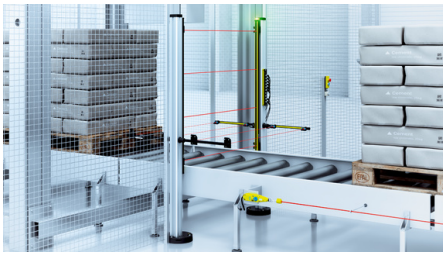
Single and multi-sided access protection up to 90 m
The long-range deTem Core and deTem4 variants are suitable for protecting large access points. For multi-sided access protection, mirror columns are used as well.

→ CUSTOMIZED ACCESS PROTECTION



Muting solutions for a continuous material flow

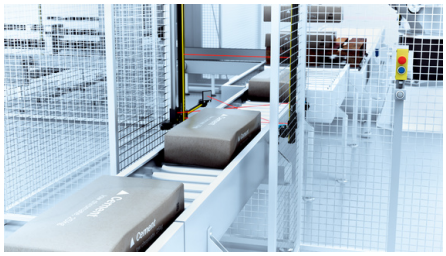
deTem safety light-beam sensors with intelligent differentiation between person and material protect people without machines stopping or having to be stopped unnecessarily. The material flows smoothly, which ensures high productivity.



Flexible 2- or 4-signal muting
With the deTem4 A/P and DMM4 muting module, you can freely configure the muting parameters of your application using the Safety Designer software.
To the video “Flexibly configurable 2-/4-signal muting with DMM4”



Pre-configured complete muting kit
With the deTem4 LT Muting A/P, you get a complete plug-and-play kit for plants with pallet conveyor systems. The kit includes pre-installed and aligned muting sensors.



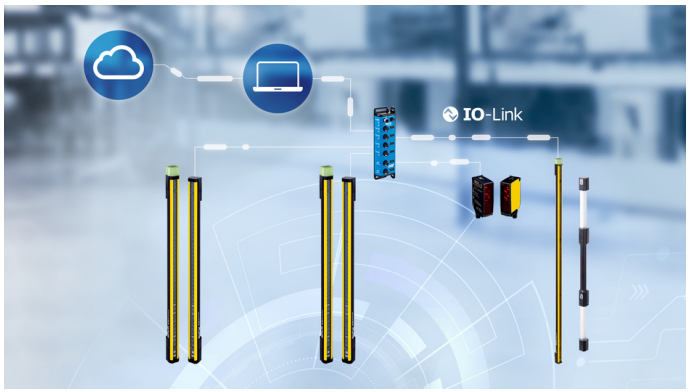
Simple 2-signal muting
Benefit from economically attractive X or L muting by combining the deTem4 A/P, SP2 system plug, and muting connector.

→ High productivity with tailored muting variants



Secure your connection to the future

Remote or on-site diagnosis? You decide. IO-Link and NFC provide reliable support in all cases. You have direct access to service and process data for efficient error analysis and continuous process optimization. In this way you will be ready for the future when it comes to safety and automation.



Safety and automation combined
Increase system productivity with fast error analyses and process optimizations. Diagnostic data can be read out in real time and from any location via IO-Link. This provides you with comprehensive sensor data for improved maintenance and process optimization, which increases system productivity.



Diagnostics by smartphone
Using the NFC interface and the SICK Safety Assistant app, you can access data directly on the device via smartphone. No time-consuming connection facility is required. In combination with the DIP-switch wizard, you can quickly configure deTem and obtain information for diagnostic purposes.
To the SICK Safety Assistant App video

→ Fast troubleshooting, reduced maintenance effort and optimized processes



For specific environments: special deTem variants

The requirements on safety multibeam sensors are different depending on the industry. In food production and processing, hygiene standards are paramount, while in explosive areas, high ruggedness and reliable ignition protection are required. For this reason, SICK has developed various deTem versions that are specially adapted to the different industry requirements and at the same time offer high flexibility and productivity.



For hygiene-sensitive areas
Access protection for areas with high hygiene standards is provided by the IP69K variants: the housings of the photoelectric sensors are easy to clean. They are made from food-friendly plastic and stainless steel. deTem IP69K variants meet Ecolab and Diversey certifications.



In explosive environments
Explosion-proof deTem variants are IECEx and ATEX certified and suitable for the following fields of application:
Zone 1/21: deTem4 Core Ex in a fully assembled and pressure-resistant, enclosed explosion-proof housing (Ex II 2GD).
Zone 2/22: deTem variants Ex II 3GD with extended ignition protection and special mechanical resilience.

→ For the individual requirements of your industry: reliable protection for specific environments



Ordered today. Already on the way. With the QuickShip program from SICK.

Whether it be planning new machinery or shortening unplanned downtimes in existing plants – fast availability of products ensures your economic success. That is why many SICK sensors are included in our QuickShip program and can now be shipped to you even faster.

→ Faster delivery of many product variants thanks to QuickShip

Select the right product variant and accessories directly online. There you will also find example applications as well as downloads such as CAD dimensional models, operating instructions and software.
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnership with our customers is more than just a promise: Together, we optimize productivity, elevate quality, protect health and safety, and sustain the future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions.

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