SICK.COM





PRODUCT OVERVIEW

safeIDS

Safety switches

SICK Sensor Intelligence



NON-CONTACT SAFETY SWITCHES

safeIDS

RFID safety switch for safe identification and flexible processes

The safeIDS RFID safety switch offers a high level of flexibility in manufacturing processes up to performance level e. Together with an IO-Link Safety master and a safety controller, the safeIDS allows safe object and position detection. The safety switch is easy to install and commission. Thanks to the IO-Link Safety communication interface, you obtain not only safe identification data but also continuous diagnostics data. This makes fast process changes with an automatic restart of the machine possible. Flexible production right down to batch size 1 can thereby be achieved, for example for robot applications.

safeIDS AT A GLANCE

BENEFITS

- Benefit from more dynamic and productive processes thanks to safe object identification and safe differentiation of cases
- Work efficiently through fast workpiece or tool changes with an automatic restart of the machine
- Save time through easy installation and maintenance with no space- or cost-intensive modification work
- Discover simple engineering and fast commissioning thanks to numbered tags
- Utilize machine modules and tools thanks to safe and flexible identification in a wide variety of production areas

FEATURES

- Safe identification of objects up to PL e
- Secure transmission of identification data via IO-Link Safety
- Easy wiring and low installation costs
- Can read more than 1,000 uniquely coded tags
- 16 numbered tags available

TECHNICAL DATA OVERVIEW

Sensor principle	RFID
Safety level	PL e, SIL 3
Actuator coding level	High coding level (EN ISO 14119) [1] Medium coding level (EN ISO 14119) [1] Low coding level (EN ISO 14119) [1]
Type of output	IO-Link Safety
Connection type	Plug, M12, 4-pin, A-coded
Active sensor surface	Front / Top

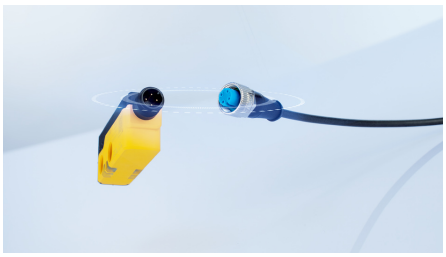
[1] Depends on the evaluation of the process data, see operating instructions.

ADVANTAGES

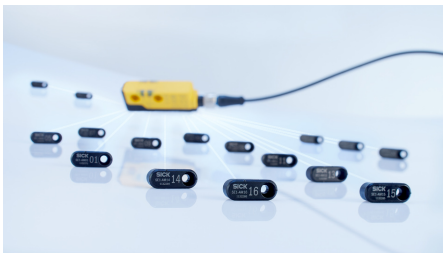


Flexibility with performance level e

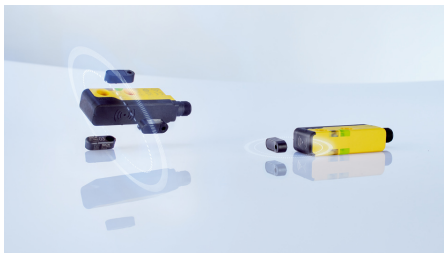
Thanks to RFID technology and the IO-Link Safety communication interface, the safeIDS safety switch makes identification simple and safe. safeIDS is suitable for integration in a wide range of applications up to performance level e.



Simple wiring
An M12 plug connector enables safeIDS to be connected easily. The wiring to the IO-Link Safety Master is implemented using a 4-pin standard cable.



Fully automatic process change
safeIDS reliably recognizes over 1000 different tags and enables a fully automatic process change without manual acknowledgment or conversion of the system.



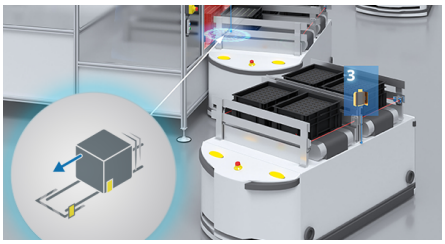
Flexible operation
safeIDS offers two variants: with variable lateral or frontal actuation. This makes the switch flexible and easy to mount.

→ Developed for efficient solutions: flexible, versatile, resource-saving

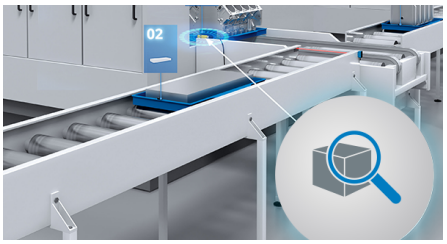


Seamless data for flexible machine processes

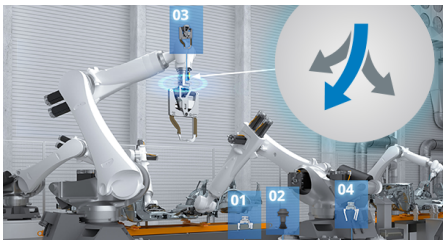
Based on reliable object detection with tags, safeIDS enables dynamic and productive processes thanks to reliable case differentiation. The IO-Link Safety communication interface transmits safe data and supports efficient automated processes.



Safe position identification
safeIDS determines, through the identification of a tag, whether a vehicle has arrived at the correct position. This makes safe material transfer possible.



Safe object identification
SafeIDS reliably identifies delivered boxes or slides as well as different format disks. This offers manipulation protection and seamless processes.



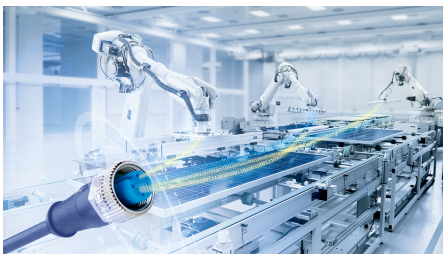
Safe case differentiation
Using unique tags, safeIDS reliably recognizes and differentiates workpieces or dies. Safety parameters are automatically adapted to the next process step.

→ Created for safe identification: productive and dynamic

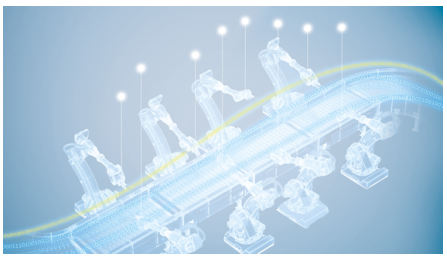


IO-Link Safety – Today and tomorrow

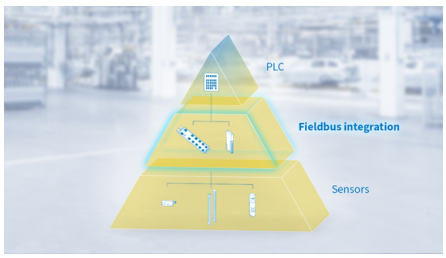
The IO-Link Safety communication interface enables IO-Link on automated machines and systems to be extended to include functionally safe components. The technology is future-proof, manufacturer-independent and open: Safe and non-safe data is transmitted together and used for machine control.
Find out more



Comprehensively safe
IO-Link Safety combines safe and non-safe data thereby enabling better process control. All sensor data is transported via a standard M12 cable, which significantly reduces the amount of wiring required.



Simply safe
IO-Link Safety simplifies the installation and commissioning of safety sensors. The technology combines the advantages of IO-Link with machine safety and enables existing solutions to be expanded to include safety devices.



Well thought out safe
Integration into all commonly used fieldbus systems is extremely simple: Data is translated by the IO-Link Master, transported to the safety controller via Ethernet fieldbus, and evaluated there. This facilitates integration into higher control levels.

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.
www.sick.com/safeIDS

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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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