



safeIDS

RFID SAFETY SWITCHES FOR SAFE IDENTIFICATION
AND FLEXIBLE PROCESSES

Safety switches



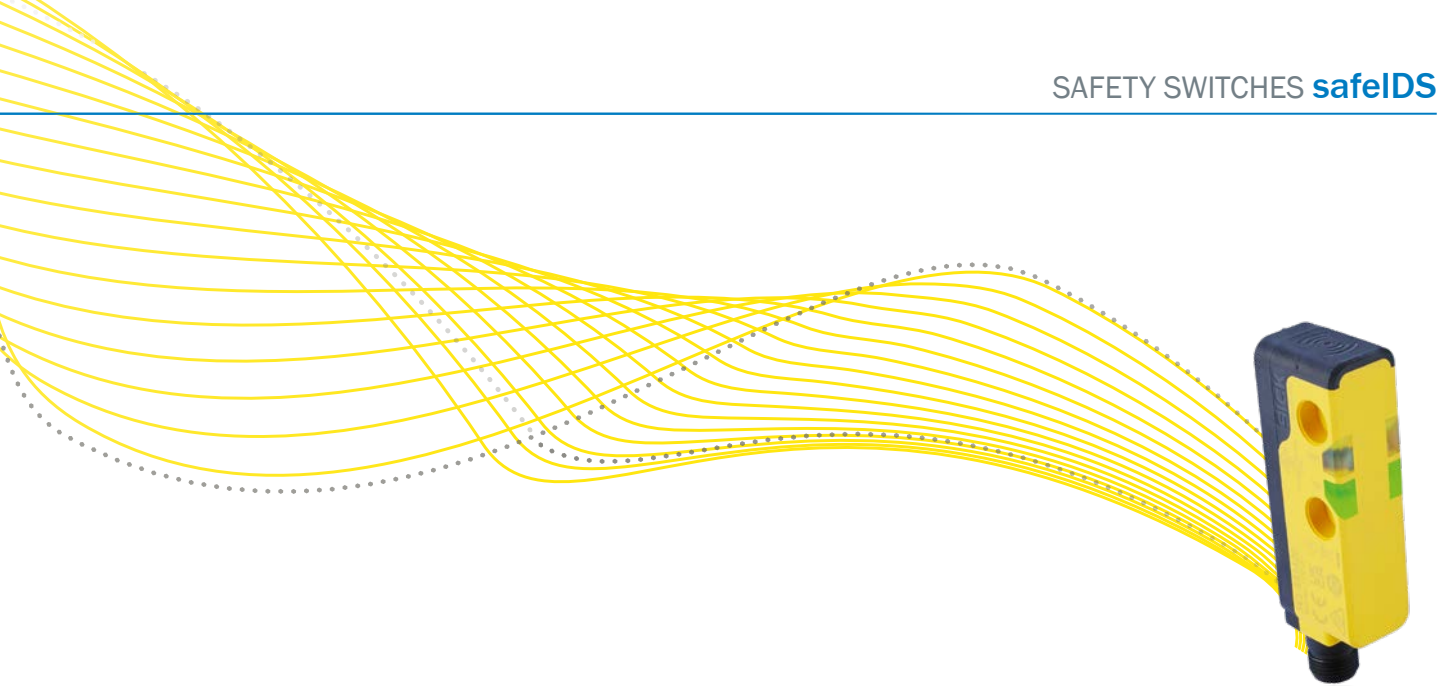
Flexible for dynamic processes

safeIDS enables identification data to be safely acquired via IO-Link Safety. This innovative technology ensures a safe differentiation of cases and increases process flexibility. You can rely on the globally standardized technology of IO-Link Safety for your Industry 4.0 solution.



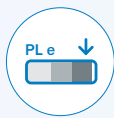
Economical installation and maintenance

Cost savings thanks to simple wiring: safeIDS and other sensors are quickly and easily connected to an IO-Link Safety Master via unshielded 4-pole standard cables with M12 plug connectors. Sensor signals are bundled and transmitted to the control cabinet via just one bus cable.



SAFE IDENTIFICATION FOR FLEXIBLE PROCESSES

The safeIDS RFID sensor takes care of the safe identification of different objects or machine parts. The identification number of the RFID tag is transmitted to an IO-Link Safety Master via the IO-Link Safety interface. This creates transparency across the entire process with safe and non-safe data combined for efficient process control. In this way, safeIDS facilitates, for example, a fully automatic tool change on robots, or the safe identification of mobile robots at transfer stations.



Sophisticated design for safe operation

safeIDS provides a high level of machine safety thanks to performance level e. A single safeIDS can read more than 1,000 uniquely coded tags. This gives you the safe information you need for the automation and safety of your machine.



Transparency for high productivity

safeIDS allows a flexible automation of process changes. Thanks to safe input data, safety parameters like, for example, the protective fields of safety laser scanners, can be adapted automatically. This enables you to increase the machine efficiency and output while at the same time maintaining a high level of safety.

AUTOMATION AT A NEW LEVEL

Tags in conjunction with the safeIDS safety switch allow processes to be automated. Through safe object identification, different machine modules and tools can be used in a variety of applications. This ensures an efficient production where safety functions are automatically adapted. The numbering on the tags also makes engineering and commissioning easier.



Find out more

→ www.sick.com/safeIDS



Fully automatic tool change

The safe object identification of safeIDS makes fast automatic tool changes possible. It eliminates time-consuming acknowledgments or the need to restrict the process to just a few tools.



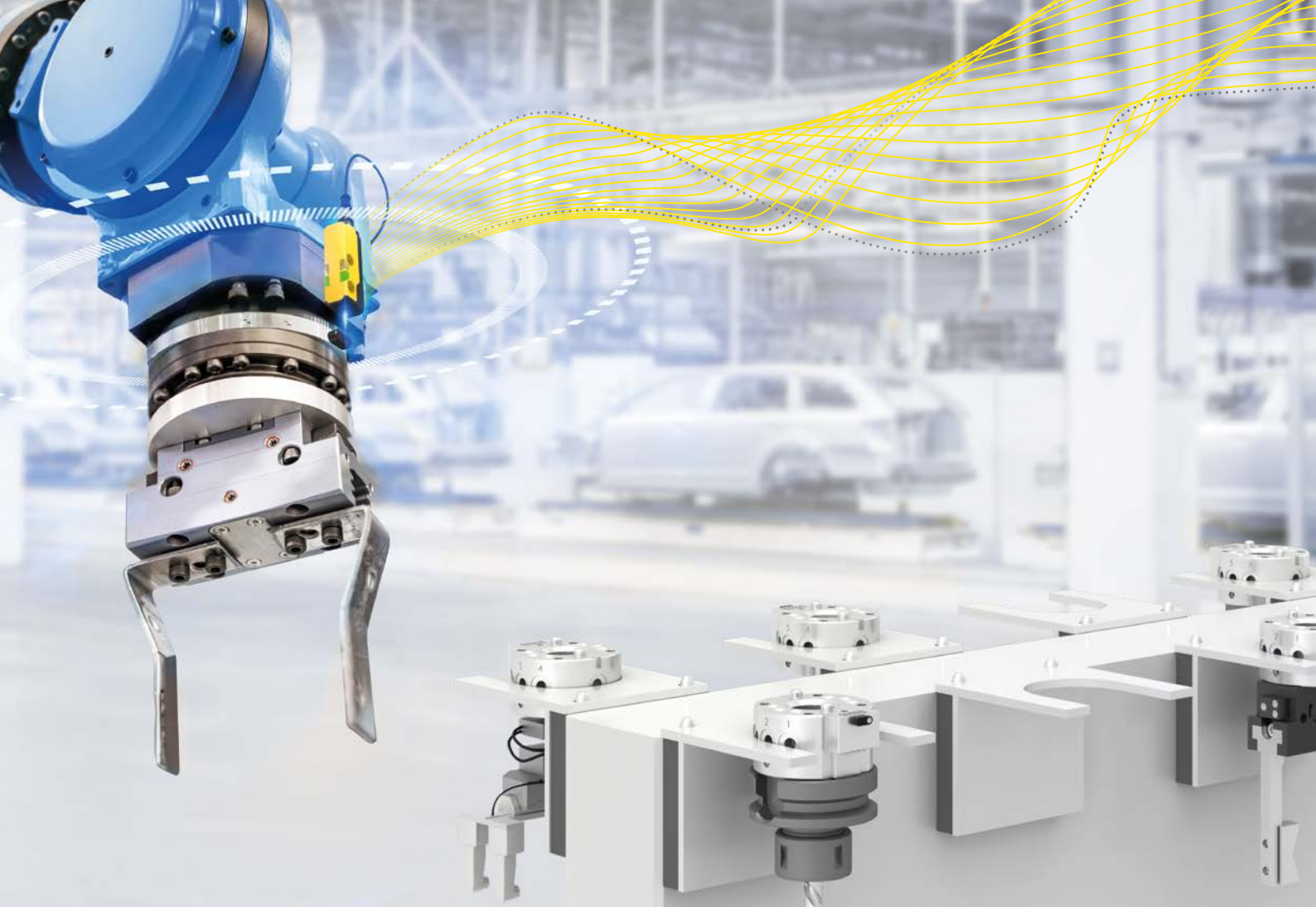
Pallet identification

In the multi-step processing of workpieces, safeIDS safely detects material carriers on conveyor belts and initiates the correct process step within the machine.



Safe material transfer

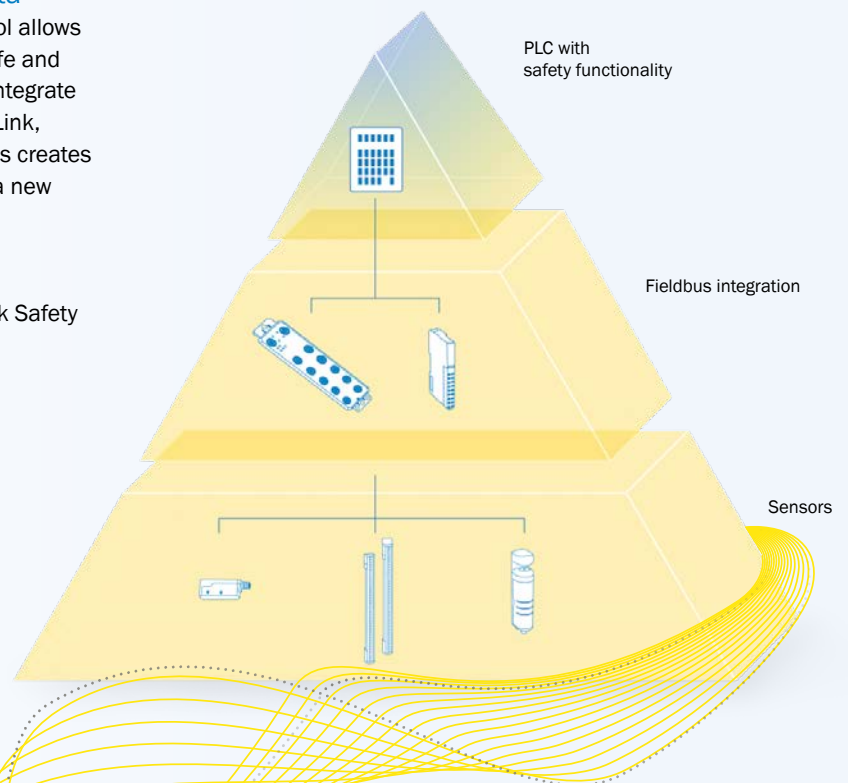
When delivering workpieces to a robot cell, safeIDS safely identifies the incoming AGVs – for a hazard-free automated transfer.



High flexibility thanks to comprehensive data

The innovative IO-Link Safety communication protocol allows holistic data processing. IO-Link Safety combines safe and non-safe data and makes it possible to effortlessly integrate safety functions, using the known advantages of IO-Link, into virtually any kind of application and process. This creates comprehensive transparency and lifts processes to a new level of efficiency.

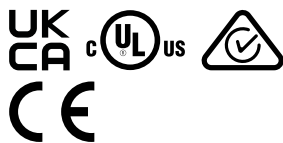
Standardized and continuous: You can rely on IO-Link Safety for not only safe but also cost-effective automation.



Find out more
 → www.sick.com/io-link-safety



RFID SAFETY SWITCH FOR SAFE IDENTIFICATION AND FLEXIBLE PROCESSES



Product description

The safelDS 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 safelDS 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.

At a glance

- 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

Your benefits

- Benefit from more dynamic and productive processes thanks to safe object identification and safe differentiation of cases
- Work efficiently through fast work-piece 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

→ www.sick.com/safelDS

For more information, simply enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples, and much more.



Ordering information

Items supplied:

- Safety switch
- Safety instruction
- Operating instructions for download → www.sick.com

Active sensor surface	Sensing range	Type	Part no.
Front	7 mm	SE1-SS1A20	1132197
Top	10 mm	SE1-ST1A20	1132196

Actuators

	Brief description	Brief description	Type	Part no.
	Actuator with short ID 01	Mini	SE1-AM01	1132271
	Actuator with short ID 02	Mini	SE1-AM02	1132272
	Actuator with short ID 03	Mini	SE1-AM03	1132273
	Actuator with short ID 04	Mini	SE1-AM04	1132274
	Actuator with short ID 05	Mini	SE1-AM05	1132275
	Actuator with short ID 06	Mini	SE1-AM06	1132276
	Actuator with short ID 07	Mini	SE1-AM07	1132277
	Actuator with short ID 08	Mini	SE1-AM08	1132278
	Actuator with short ID 09	Mini	SE1-AM09	1132279
	Actuator with short ID 10	Mini	SE1-AM10	1132280
	Actuator with short ID 11	Mini	SE1-AM11	1132281
	Actuator with short ID 12	Mini	SE1-AM12	1132282
	Actuator with short ID 13	Mini	SE1-AM13	1132283
	Actuator with short ID 14	Mini	SE1-AM14	1132284
	Actuator with short ID 15	Mini	SE1-AM15	1132285
	Actuator with short ID 16	Mini	SE1-AM16	1132286
	Replacement actuator for STR1-SACxxxx (compatible with all STR1 and safeIDS sensors)	Compact	STR1-XAC	1101078
	Replacement actuator for STR1-SAFxxxx (compatible with all STR1 and safeIDS sensors)	Flat	STR1-XAF	1073221
	Replacement actuator for STR1-SAMxxxx (compatible with all STR1 and safeIDS sensors)	Mini	STR1-XAM	1073222
	Replacement actuator for STR1-SASxxxx (compatible with all STR1 and safeIDS sensors)	Standard	STR1-XAS	1073223

SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 11,900 employees and over 50 subsidiaries and equity investments as well as numerous agencies worldwide, SICK is always close to its customers. 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.

SICK has extensive experience in various industries and understands their processes and requirements. With intelligent sensors, SICK delivers exactly what the 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 SICK a reliable supplier and development partner.

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

That is “Sensor Intelligence.”

Worldwide presence:

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Hong Kong, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and further locations → www.sick.com