

PRODUCT OVERVIEW

RE2

Safety switches

SICK

Sensor Intelligence



NON-CONTACT SAFETY SWITCHES

RE2

Compact magnetic safety switch for non-contact door monitoring

RE2 magnetic safety switches are equipped with either complementary NC/NO contacts or equivalent N/O contacts which are addressed directly with coded magnetic actuators. Magnetic safety switches are used in areas where a high level of contamination occurs. They are simple to clean, thereby enabling high standards of hygiene. Their principle of operation enables greater tolerances, making them ideal for applications where precise guidance of the protective device is difficult.

RE2 AT A GLANCE

BENEFITS

- Long service life due to durable and low-maintenance design
- Just one safety switch in conjunction with a suitable safety module makes it possible to solve applications up to PL e and Cat. 4 (EN ISO 13849)
- High level of machine availability due to high tolerances for door misalignment
- The devices are easy to clean, making them suitable for contaminated areas or environments with strict hygiene standards
- Fast diagnostics via LED status indicator (RE27)
- Flexi Loop now enables a safe series connection with enhanced diagnostics capabilities and minimal wiring effort.

FEATURES

- Response range of up to 9 mm
- 2 or 3 contacts
- Up to performance level PL e / Cat. 4 (EN ISO 13849)
- Sensors with plug connector or connected cable
- LED status indicator (RE27)
- Flexi Loop-compatible M12 plug connector (depending on variant)

TECHNICAL DATA OVERVIEW

Sensor principle	Magnetic
Actuator coding level	Low coding level (EN ISO 14119)
Type of output	Reed contacts
N/C contacts	1 / 0
N/O contacts	1 / 2
Connection type	Cable Cable with M8 male connector, 4-pin Plug connector, M8, 4-pin Cable with plug, M12, 4-pin Cable with plug M12, 8-pin

ADVANTAGES



Reliable functionality for non-contact door monitoring

The RE2 magnetic safety switch is used to monitor doors and flaps up to IP67. It impresses with its long service life, a low-wear and -maintenance design and space-saving mounting. At the same time, the RE2 also offers reliable functionality even under unfavorable ambient conditions, such as heavy contamination.

Low-maintenance with easy cleaning

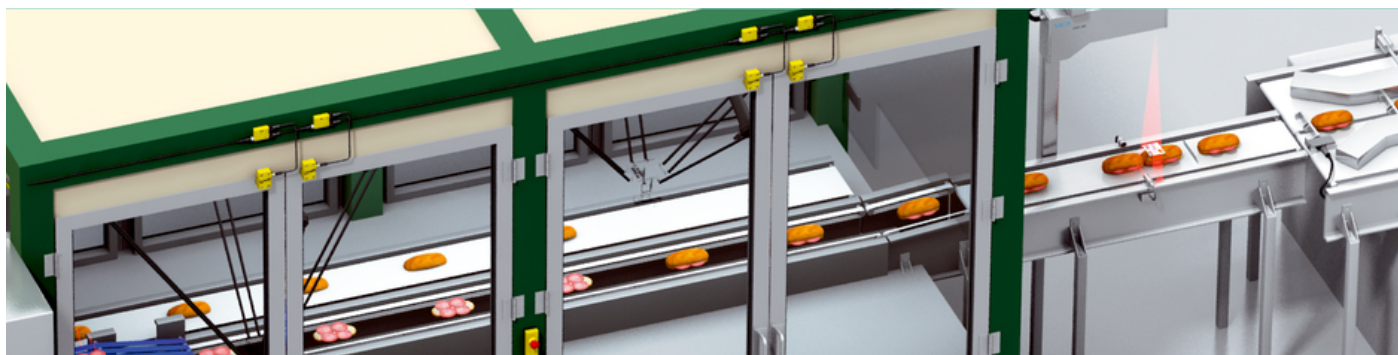


Low-wear operation enables a longer maintenance cycle and higher machine availability.



Without grooves and openings, the RE2 is very easy to clean and is perfectly suited for use on doors and flaps up to IP67 as well as in heavily contaminated areas.

—> High machine availability thanks to low-wear operation: The RE2 non-contact safety switch

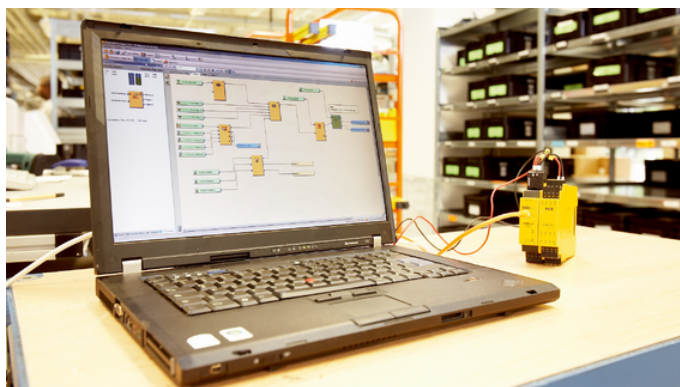


Up to performance level e with improved protection against manipulation

Thanks to the high tolerance to door offset, the RE2 can be used for all sliding and swinging doors and enables the highest level of machine availability. Using special function blocks in the safety controller, the RE2 can achieve performance level e in accordance with EN ISO 13849 and also offers higher protection against manipulation.



Thanks to its magnetic operation, the RE2 offers more protection against manipulation than electro-mechanical safety switches and helps considerably lower the risk of accidents.



In combination with the appropriate safety function block in the controller, the RE2 can achieve performance level e.



The RE2 magnetic safety switch combines improved protection against manipulation and the highest performance

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/RE2



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SICK AT A GLANCE

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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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