Product overview

RE2

Compact magnetic safety switch for non-contact door monitoring

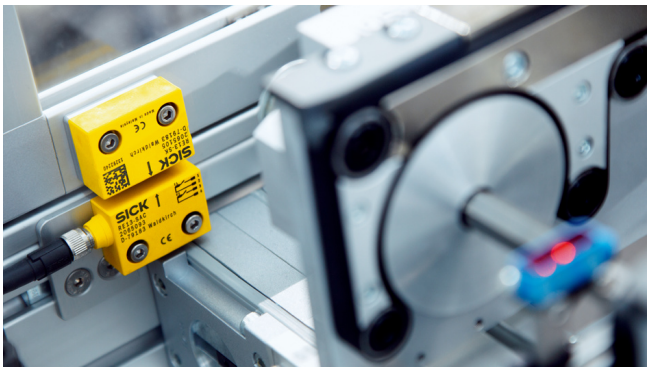
SICK
Sensor Intelligence.

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.

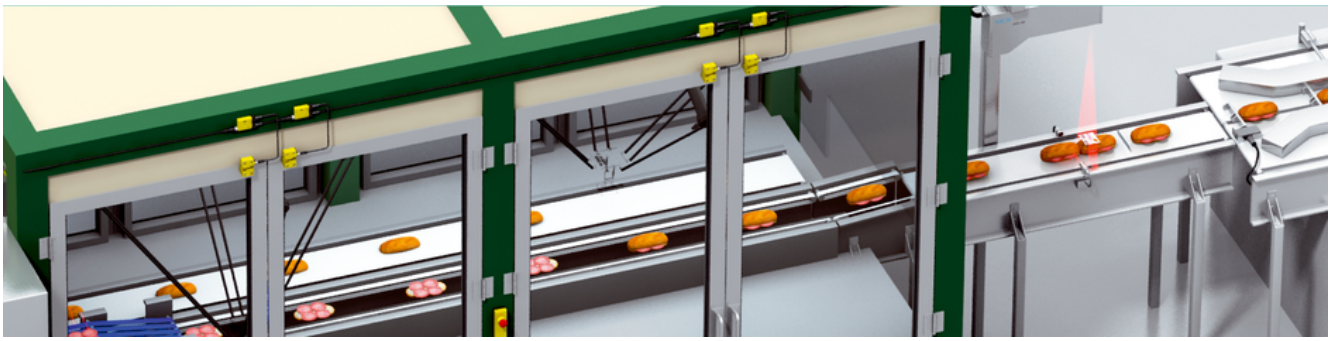
Low-maintenance with easy cleaning



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

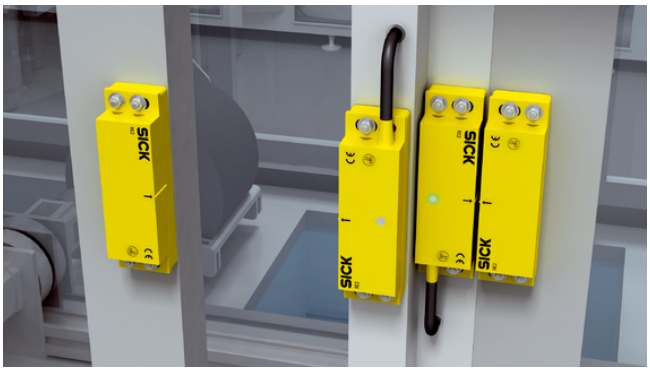
Without grooves and openings, the RE2 is very easy to clean and is perfectly suited for use on doors and flaps up to IP67 as well as in heavily contaminated areas.

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

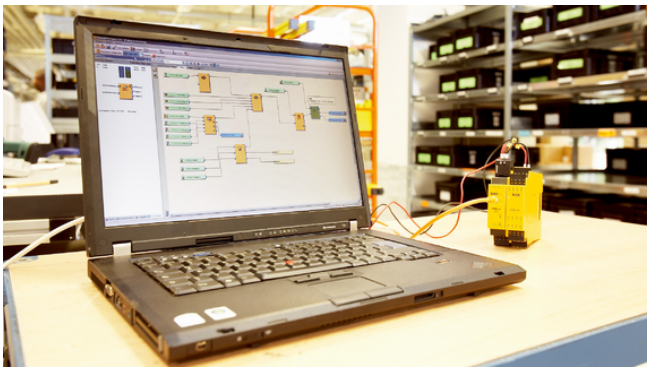


Up to performance level e with improved protection against manipulation

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

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 (depends on variant)
N/O contacts	1 / 2 (depends on variant)
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 (depends on variant)

Product description

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.

At a glance

- 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)

Your 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.

Fields of application

- Monitoring of safety doors and removable guards
- Applications requiring a high standard of hygiene
- Applications where precise guidance of the safety door is not possible

Ordering information

Other models and accessories ➜ www.sick.com/RE2

Systemteil	N/O contacts	N/C contacts	Connection type Detail	Length of cable	Safe series connection	Status display	Type	Part no.
Sensor with actuator	1	1	Cable with M8 male connector, 4-pin	0.2 m	None, only individual wiring (with diagnostics)	–	RE21-SA84	1083850
			Cable	3 m		–	RE21-SA03	1059506
				5 m		–	RE21-SA05	1059507
			Plug connector, M8, 4-pin	–		–	RE21-SAC	1059505
	2	0	Cable with M8 male connector, 4-pin	0.2 m		–	RE23-SA84	1062541
			Cable with plug, M12, 4-pin	0.2 m	With Flexi Loop (with diagnostics)	–	RE23-SA64	1062542
			Cable	3 m	None, only individual wiring (with diagnostics)	–	RE23-SA03	1061725
				5 m		✓	RE27-SA05L	1059510
						–	RE23-SA05	1061726
				10 m		✓	RE27-SA10L	1059511
						–	RE23-SA10	1093335
				20 m		✓	RE27-SA20L	1059512
			Cable with plug M12, 8-pin	0.2 m		✓	RE27-SA68L	1059509
					With Flexi Loop (with diagnostics)	✓	RE27-SA68LS04	1065233
sensor	2	0	Cable with plug M12, 8-pin	0.2 m	With Flexi Loop (with diagnostics)	✓	RE27-SB68LS04	1099625
Sensor with actuator	2	0	Plug connector, M8, 4-pin	–	With Flexi Loop (with diagnostics)	–	RE23-SAC	1059508

SICK AT A GLANCE

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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."

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