



RE11/RE21/RE31

Simple and established non-contact door monitoring

SICK
Sensor Intelligence.



Technical data overview

Sensor principle	Magnetic
Actuator coding level	Low coding level (EN ISO 14119)
Type of output	Reed contacts
N/C contacts	1
N/O contacts	1
Connection type	Cable / plug connector, M8, 4-pin (depending on type)

Product description

RE11, RE21 and RE31 magnetic safety switches are equipped with complementary-switching normally open (NO)/normally closed (NC) contacts that use coded magnetic actuators. Magnetic safety switches can be used in areas where a high level of contamination occurs. The devices are easy to clean, making them suitable for contaminated areas or environments with strict hygiene standards. Their operating principle enables greater tolerances, making them ideal for applications where precise guidance of guards is difficult.

At a glance

- Response range of up to 6 mm
- 1 NO/1 NC contact
- Up to performance level PL e / Cat. 4 (EN ISO 13849)
- Direct connection to safe control solution possible
- Sensors with plug connector or connected cable

Your benefits

- Long service life due to durable and low-maintenance design
- Space-saving mounting due to compact housing 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
- Direct connection to the safe control solution eliminates any additional wiring and reduces installation time
- The devices are easy to clean, making them suitable for contaminated areas or environments with strict hygiene standards

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/RE11_RE21_RE31

- **Systemteil:** Sensor with actuator
- **N/O contacts:** 1
- **N/C contacts:** 1
- **Safe series connection:** None, only individual wiring (with diagnostics)

Connection type Detail	Length of cable	Type	Part no.
Cable	3 m	RE31-DA03	6034325
	5 m	RE31-DA05	6035618
Plug connector, M8, 4-pin	–	RE31-DAC	6036768

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. 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.

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com