Increased Safety with RFID Transponder Technology

SIRIUS 3SE63: the non-contact RFID safety switch for reliable protective door monitoring

The increasingly stringent safety regulations we encounter today demand tamper-proof occupational safety protection: hazardous machine movements need to be stopped reliably when a protective door is opened – without being able to bypass or manipulate the protective equipment. A long service life also has to be ensured for safety switches used for protective doors that are difficult to adjust or that open and close frequently. The answer to these requirements is the new SIRIUS 3SE63 safety switch.

When using the SIRIUS 3SE63 safety switch you benefit from increased protection against interference and manipulation for the electronic monitoring of protective doors and flaps. The non-contact safety switch utilizes RFID transponder technology which improves the safety level and functionality significantly.

**Increased safety**

SIRIUS 3SE63 satisfies the highest safety standards for maximum machine safety. In conjunction with Safety Integrated, this switch provides you with an important component for safety-related applications.

**Easy installation and maintenance**

The 3SE63 safety switch can be mounted easily and flexibly on all sides of protective door. Universal mounting holes make it simple to adjust, while the increased detection tolerance between actuator and switch keeps maintenance to a minimum by reducing the effects that misalignment can have on the application.

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Series connection of protective doors at the highest safety level

Several RFID switches can be connected jointly in the same safety circuit as they feature integrated cross-circuit, open-circuit and external voltage monitoring functions. They can be monitored by any evaluation unit, e.g. a PLC, a SIRIUS 3TK28 safety relay or the SIRIUS 3RK3 modular safety system.

Increased safety

- High protection against interference and manipulation – due to various coding versions
- Highest safety level – compatible with safety evaluation units and suitable for series connection of several devices
- Low investment costs – only 1 switch required for safety applications up to Performance Level e acc. to EN 13849-1 and SIL 3 acc. to IEC 61508/62061
- Long service life – wear-free switching thanks to non-contact operation based on RFID technology
- Increased plant availability – through comprehensive diagnostics functions
- Rugged and resistant to cleaning agents – with high degree of protection up to IP69K

Easy installation and maintenance

- Flexible and cost-effective – can be mounted on any side of the door using universal mounting holes and can be used as an end stop on small to medium-sized doors
- Low-maintenance – A greater detection range (12mm) between actuator and switch allows for improved mounting tolerances over standard mechanical and magnetic switches, reducing the application’s sensitivity to alignment.
- Easy to replace – Due to standard gauge and drill holes (similar to SIRIUS 3SE66/67 magnetically-operated switch)
- Optional magnetic latching (18 N) – holds doors and flaps in place preventing undesired opening

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