SIRIUS Position Switches – Combinable for all Applications

SIRIUS standard position switches – highlights

- Increased flexibility through modular structure
- Reduced mounting times through rapid connection system for plastic enclosures
- Fast replacement of actuator heads through easy plug mounting
- More space through enclosure-integrated ASIsafe electronics

SIRIUS safety position switches – highlights

- Maximum reliability through high locking forces
- Integration of ASIsafe electronics in enclosure: power demand ≤ 170 mA with interlocking

Low-Voltage Controls & Distribution

sirius DETECTING

Our comprehensive range of new 3SE5 position switches covers almost all application cases on the field level. Whether as standard function or employed in safety circuits – no wrong movement escapes our detecting devices, not even under harshest conditions. Superior and reliable.

SIEMENS

Your Field-Level Informants:
SIRIUS Standard Position Switches

SIRIUS standard position switches competently and reliably meet almost all requirements of industrial applications – from the safe detection of hazardous machine part movements down to the monitoring of protective equipment. Standardized sizes and functions not only facilitate the selection of the right switch, but additionally ensure easy and efficient stocking, installation, wiring and maintenance.

Easy plug mounting – for fast actuator head replacement
1. *Open the cover*
2. *Operate the locking lever*
3. *Replace the actuator head*

Rapid connection system for plastic enclosure

New features

- The modular design with many integrated components reduces the number of variants, simplifies stockage and increases the availability of spare parts.
- The plug mounting design simplifies the mounting and replacement of the actuator heads through a uniform interface.
- All actuator heads can be rotated in 22.5° increments.
- The rapid connection system for plastic enclosures according to EN 50047 (31 mm) reduces mounting times by up to 25%.
- The entire ASIsafe electronics are now integrated in the standard enclosure – ASIsafe now no longer occupies any additional space.
- LED displays are available for all enclosures to facilitate fast on-site diagnostics (available in 24 V DC and 230 V AC).
- The new 3-pole contact block increases safety through redundant disconnection and additional signaling. As opposed to 2-pole contact blocks, it occupies no extra space.

The modular design of the new generation of standard position switches saves time and offers an increased flexibility for mounting the various switch variants.

ASIsafe electronics integrated in standard enclosure

Optional LED displays for all enclosures

For Maximum Safety in the Field:
SIRIUS Safety Position Switches

Our complete portfolio also offers various switch types for safe detection tasks according to Category 4 in accordance with EN 954-1 and SIL3 in accordance with IEC 62061. Manipulation-proof position switches with separate actuator have, for example, proven very effective for protective door monitoring, while position switches with solenoid interlocking are the reliable and safe solution for additional locking requirements, e.g. in the working radius of robotic systems. Hinge switches for the monitoring of pivoting doors and flaps offer maximum protection against manipulation.

New features

- Optional LED displays are available for all enclosures to facilitate user-friendly on-site diagnostics.
- The entire ASIsafe electronics are now integrated in the standard enclosure – ASIsafe now no longer occupies any additional space.

Furthermore, the safety position switches with solenoid interlocking offer even more new features:

- High locking forces of up to 2600 N (metal version) and 1300 N (plastic version) as a standard.
- Numerous additional release variants.
- Direct connection to the AS-i network with a very low power load on the magnet of ≤ 170 mA.
- 2 x 3 contacts as a standard.

Clever and Reliable:

SIRIUS Position Switches with Solenoid Interlocking

Whenever the shutdown of machines requires closed protective doors, e.g. for protecting the working radius of robotic systems, SIRIUS position switches with separate actuator and additional electromagnetic interlocking represent the optimum solution. An integrated additional magnet keeps the protective door reliably locked until a specific signal has been received. Further convincing features include the integrated solenoid interlocking with optional 24 V, 115 V and 230 V coil voltage, the standard equipping with 6 switching contacts and the separate evaluation in terms of magnet and protective door position.

New features

- Higher locking forces (2600 N with metal version, 1300 N with plastic version) guarantee enhanced safety even in harsh industrial environments.
- 2 x 3 contacts are now included as a standard. Two NC and NO contacts each are provided for magnet and actuator monitoring.
- The new, innovative ASIsafe solution, in which the safety-related module is already integrated, greatly reduces the load on the data line. The maximum power input of the magnet is 170 mA.
- Numerous additional release variants offer the right solution for all requirements: auxiliary release, lock release, escape release and emergency release.
- The actuator heads can be rotated in 4 x 90° angle.
- Actuation directions: 4 x lateral and frontal.

Release variants

The escape release facilitates a manual unlocking of the interlocking to enable persons to leave the hazardous area – without auxiliary equipment from the escape side, i.e. inside the hazardous area. The emergency release facilitates the manual unlocking of the interlocking in cases of danger – without auxiliary equipment from the access side, i.e. outside the hazardous area.

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