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Sensing with SIRIUS 3SE Position and Safety Switches

Modular design for all applications

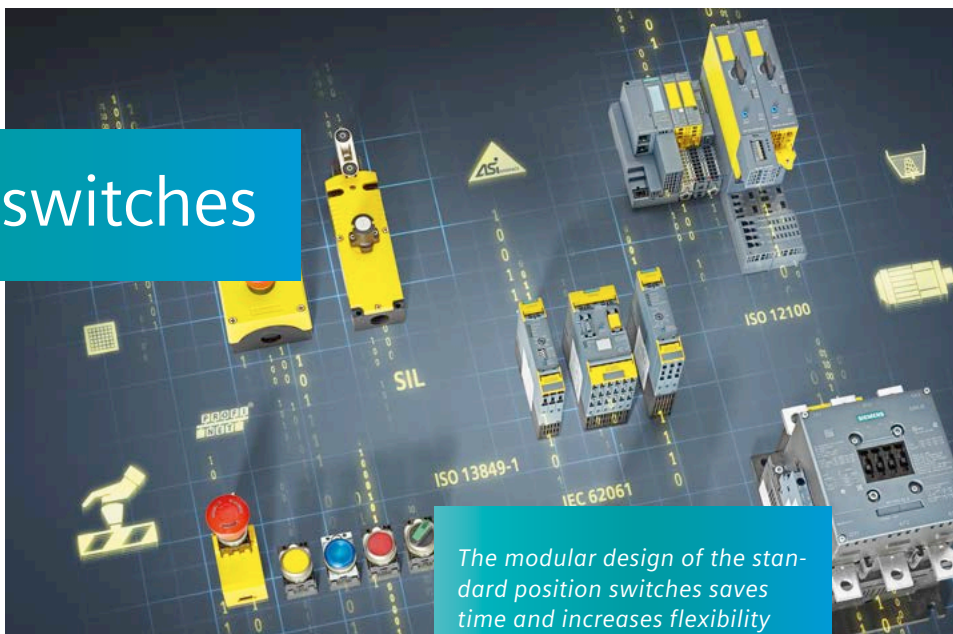
SIRIUS
Command

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SIRIUS position switches

Main advantages at a glance

- Reduced variance and stock-keeping costs due to modular design
- Plug-in design and a standardized interface simplify replacement and installation of the actuator heads
- All actuator heads can be rotated in 22.5° increments
- Quick-connect technology for plastic enclosures (31 mm) reduces mounting times by up to 25%
- Choice of connectors and rollers
- The entire ASIsafe electronics is integrated in a standard enclosure
- LED displays optionally available for all enclosures
- Higher degree of safety with redundant shutdown and additional signaling for versions with 3-pole contact blocks (enclosure dimensions as for 2-pole contact blocks)
- Versions with increased corrosion protection and for use down to -40 °C



The modular design of the standard position switches saves time and increases flexibility during installation of a whole range of switch versions.



Simple plug-in mounting

- 1 Open cover
- 2 Operate the locking lever
- 3 Replace the actuator head
- 4 Lock and close the cover



Quick-connect technology

- 1 Connect connection cable to terminals of contact block
- 2 Insert through slot into opening for screw connection

Selection of basic switches

	Contacts	Plastic enclosure			Metal enclosure		
		31 mm width	40 mm width	50 mm width	31 mm width	40 mm width	56 mm width
→ Safety switch Positive opening operation according to IEC 60947-5-1							
Switching points according to ...	–	EN 50 047	EN 50 041	EN 50 047	EN 50 047	EN 50 041	EN 50 041
Mounting according to ...	–	EN 50 047	EN 50 041		EN 50 047	EN 50 041	
Degree of protection	–	IP65	IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67
Number of screw connections M20 x 1.5	–	1	1	2	1	1	3
Order number for basic switch with snap-action contacts ¹⁾	1NO/1NC	3SE5232-0CC05	3SE5132-0CA00	3SE5242-0CC05	3SE5212-0CC05	3SE5112-0CA00	3SE5122-0CA00
	1NO/2NC	3SE5232-0LC05	3SE5132-0LA00	3SE5242-0LC05	3SE5212-0LC05	3SE5112-0LA00	3SE5122-0LA00
Order number for basic switch with slow-action contacts ²⁾	1NO/1NC	3SE5232-0BC05	3SE5132-0BA00	3SE5242-0BC05	3SE5212-0BC05	3SE5112-0BA00	3SE5122-0BA00
	1NO/2NC	3SE5232-0KC05	3SE5132-0KA00	3SE5242-0KC05	3SE5212-0KC05	3SE5112-0KA00	3SE5122-0KA00

SIRIUS position switches: complete units

Our position switches can be ordered in a modular design or as complete units – already fitted with an actuator head. You will find further versions, such as compact switches, non-encapsulated designs or switches for ambient temperatures down to -40° at: [siemens.com/industrial-controls/configurators](https://www.siemens.com/industrial-controls/configurators)

Plastic or metal enclosure 31 mm wide, according to EN 50 047, with snap-action contacts 1 NO/1NC



Order number, plastic	Order number, metal	Actuator	SR*	PR**
3SE5232-0CC05 →	3SE5212-0CC05 →	Rounded plunger + Teflon plunger	–	–
3SE5232-0HD03 →	3SE5212-0CD03 →	Roller plunger	–	X
3SE5232-0HE10 →	3SE5212-0CE10 →	Roller lever	–	X
3SE5232-0HF10 →	3SE5212-0CF10 →	Angular roller lever	–	X
3SE5232-0HK21 →	3SE5212-0CK21 →	Twist lever	–	X
3SE5232-0HK50	3SE5212-0CK50	Twist lever, infin. adj. length	–	X

Plastic or metal enclosure 40 mm wide, according to EN 50 041, with snap-action contacts 1 NO/1NC



Order number, plastic	Order number, metal	Actuator	SR*	PR**
3SE5132-0CB01 →	3SE5112-0CB01 →	Plain plunger, high-grade steel	–	–
3SE5132-0CC03 →	3SE5112-0CC02 →	Rounded plunger, high-grade steel	X	–
3SE5132-0CD05 →	3SE5112-0CD02 →	Roller plunger	X	–
3SE5132-0CE05 →	3SE5112-0CE01 →	Roller lever	–	X
3SE5132-0CF05 →	3SE5112-0CF01 →	Angular roller lever	–	X
3SE5132-0CJ01 →	3SE5112-0CH01 →	Twist lever	–	X
3SE5132-0CJ50	3SE5112-0CH50	Twist lever, infinitely adjustable length	–	X
3SE5132-0CJ80	3SE5112-0CH80	Rod actuator, aluminum	–	–
3SE5132-0CR01	3SE5112-0CR01	Spring rod	–	–

Plastic enclosure 50 mm wide, switching points according to EN 50 047, with snap-action contacts 1 NO/1NC



Order number, plastic	Actuator	SR*	PR**
3SE5242-0CC05 →	Rounded plunger with Teflon plunger	–	–
3SE5242-0HD03 →	Roller plunger	X	–
3SE5242-0HE10 →	Roller lever	–	X
3SE5242-0HK21 →	Twist lever	–	X
3SE5242-0HK50	Twist lever, adjustable length	–	X

Metal enclosure 56 mm wide, switching points according to EN 50 041, with snap-action contacts 1 NO/1NC



Order number, metal	Actuator	SR*	PR**
3SE5122-0CC02 →	Rounded plunger, high-grade steel	–	–
3SE5122-0CD02 →	Roller plunger	X	–
3SE5122-0CE01 →	Roller lever	–	X
3SE5122-0CH01 →	Twist lever	–	X
3SE5122-0CH50	Twist lever, infinitely adjustable length	–	X

→ = positive opening

* – with high-grade steel roller

** – with plastic roller

Mechanical safety switches with separate actuators

Safety switches with a separate actuator are used where the position of doors, covers or protective grilles must be monitored for safety reasons. 3SE5 safety switches with a separate actuator without a locking device have the same enclosures as the 3SE5 position switches (modular system).

Safety switches with a locking device are special safety-related devices which prevent an unforeseen or intentional opening of protective doors, protective grilles or other covers for as long as a dangerous situation is present (i.e. follow-on motion of the switched-off machine).

Safety switch with separate actuator, 5 approach directions, without locking device



Order number, plastic	Order number, metal	Enclosure/contact
3SE5232-ORV40	3SE5212-ORV40	31 mm / 1NC+1NO
3SE5232-OQV40	3SE5212-OQV40	31 mm / 2NC+1NO
3SE5132-OQV20	3SE5112-OQV10	40 mm / 2NC+1NO
3SE5242-OQV40	–	50 mm / 2NC+1NO
–	3SE5122-OQV10	56 mm / 2NC+1NO

Safety switch with separate actuator, 5 approach directions, with locking device, position monitoring. Actuator: 1NO+2NC, magnet:1NO+2NC



Order number, plastic	Order number, metal	Enclosure width
Spring-actuated lock, with auxiliary release		54 mm
3SE5322-OSD21	3SE5312-OSD11	
Spring-actuated lock, with auxiliary release and lock		
3SE5322-OSE21	3SE5312-OSE11	
Magnetically locked		
3SE5322-OSB21	3SE5312-OSB11	

Actuator



Article No.	Version	Length of actuator
3SE5000-0AV01	Standard metal	75.6 mm
3SE5000-0AW11	Standard plastic (not for switches with locking device)	40 mm
3SE5000-0AV02	With vertical fixing	53 mm
3SE5000-0AV03	With transverse fixing	47 mm
3SE5000-0AV05	Universal radius actuator	77 mm



Actuators for standard position switch 3SE5 in plastic version 31 mm and 50 mm according to EN 50 047

		Order number		
			with plastic roller	with high-grade steel roller
Roller plunger	→	–	3SE5000-0AD03	3SE5000-0AD04
Roller lever with	Metal lever →	–	3SE5000-0AE10	3SE5000-0AE11
	High-grade steel lever →	–	3SE5000-0AE12	3SE5000-0AE13
Angular roller lever with	Metal lever →	–	3SE5000-0AF10	3SE5000-0AF11
	High-grade steel lever →	–	3SE5000-0AF12	3SE5000-0AF13
Spring rod with plastic plunger 143 mm (only for switches with snap-action contacts)		3SE5000-0AR01	–	–
Twist actuator +	→	+	3SE5000-0AK00 +	+
Twist lever 21 mm with	Metal lever →	–	3SE5000-0AA21	3SE5000-0AA22
	High-grade steel lever →	–	3SE5000-0AA31	3SE5000-0AA32
Adjustable-length twist lever with	Metal lever, infinitely adjustable	–	3SE5000-0AA50	3SE5000-0AA51
	Metal lever with grid bores →	–	3SE5000-0AA60	3SE5000-0AA61
Rod actuator in	Aluminum 200 mm	3SE5000-0AA80	–	–
	Plastic 200 mm	3SE5000-0AA82	–	–

Actuators for standard position switches 3SE5, plastic version, 40 mm, according to EN 50 041

		Order number		
			with plastic roller	with high-grade steel roller
Plain plunger	→	3SE5000-0AB01	–	–
Roller plunger	→	–	3SE5000-0AD05	3SE5000-0AD06
Rounded plunger	→	3SE5000-0AC03	–	–
Roller lever with metal lever	→	–	3SE5000-0AE05	–
Angular roller lever with metal lever	→	–	3SE5000-0AF05	–
Spring rod with plastic plunger 143 mm (only for switches with snap-action contacts)		3SE5000-0AR01	–	–
Twist actuator +	→	+	3SE5000-0AH00 +	+
Twist lever, 27 mm with	Metal lever →	–	3SE5000-0AA01	3SE5000-0AA02
	High-grade steel lever →	–	3SE5000-0AA11	3SE5000-0AA12
Adjustable-length twist lever with	Metal lever, infinitely adjustable	–	3SE5000-0AA50	3SE5000-0AA51
	Metal lever with grid bores →	–	3SE5000-0AA60	3SE5000-0AA61
Rod actuator in	Aluminum 200 mm	3SE5000-0AA80	–	–
	Plastic 200 mm	3SE5000-0AA82	–	–

→ = positive opening



Actuators for standard position switches 3SE5, metal version, 31 mm, according to EN 50 047

		Order number		
			with plastic roller	with high-grade steel roller
Plain plunger	→	3SE5000-0AB01	–	–
Roller plunger	→	–	3SE5000-0AD03	3SE5000-0AD04
Roller lever with	Metal lever →	–	3SE5000-0AE10	3SE5000-0AE11
	High-grade steel lever →	–	3SE5000-0AE12	3SE5000-0AE13
Angular roller lever with	Metal lever →	–	3SE5000-0AF10	3SE5000-0AF11
	High-grade steel lever →	–	3SE5000-0AF12	3SE5000-0AF13
Spring rod with plastic plunger 143 mm (only for switches with snap-action contacts)		3SE5000-0AR01	–	–
Twist actuator +	→	+	+	+
Twist lever, 27 mm with	Metal lever →	–	3SE5000-0AA21	3SE5000-0AA22
	High-grade steel lever →	–	3SE5000-0AA31	3SE5000-0AA32
Adjustable-length twist lever with	Metal lever, infinitely adjustable	–	3SE5000-0AA50	3SE5000-0AA51
	Metal lever with grid bores →	–	3SE5000-0AA60	3SE5000-0AA61
Rod actuator in	Aluminum 200 mm	3SE5000-0AA80	–	–
	Plastic 200 mm	3SE5000-0AA82	–	–

Actuators for standard position switches 3SE5, metal version, 40 mm and 56 mm, according to EN 50 041

		Order number		
			with plastic roller	with high-grade steel roller
Plain plunger	→	3SE5000-0AB01	–	–
Rounded plunger with overtravel, high-grade steel	→	3SE5000-0AC02	–	–
Roller plunger, with overtravel	→	–	–	3SE5000-0AD02
Roller lever with	Metal lever →	–	3SE5000-0AE01	3SE5000-0AE02
	High-grade steel lever →	–	3SE5000-0AE03	3SE5000-0AE04
Angular roller lever with	Metal lever →	–	3SE5000-0AF01	3SE5000-0AF02
	High-grade steel lever →	–	3SE5000-0AF03	3SE5000-0AF04
Spring rod with plastic plunger 143 mm (only for switches with snap-action contacts)		3SE5000-0AR01	–	–
Twist actuator +	→	+	+	+
Twist lever, 27 mm with	Metal lever →	–	3SE5000-0AA01	3SE5000-0AA02
	High-grade steel lever →	–	3SE5000-0AA11	3SE5000-0AA12
Adjustable-length twist lever with	Metal lever, infinitely adjustable	–	3SE5000-0AA50	3SE5000-0AA51
	Metal lever with grid bores →	–	3SE5000-0AA60	3SE5000-0AA61
Rod actuator in	Aluminum 200 mm	3SE5000-0AA80	–	–
	Plastic 200 mm	3SE5000-0AA82	–	–

→ = positive opening

SIRIUS 3SE6

non-contact safety switches

RFID 3SE63 non-contact safety switches and 3SE66/67 magnetically operated switches comply with the highest SIL 3 or Cat. 4 safety requirements for monitoring the positions of movable protective devices. The switch must be connected to a safety relay, e.g. SIRIUS 3SK1/3SK2, or a bus system, e.g. SIMATIC ET 200SP, for evaluation.



Rectangular safety switches 25 mm x 91 mm

Non-contact RFID safety switches

An RFID safety switch consists of a coded RFID switch with an 8-pole M12 connection plug and an identical RFID actuator.



Order number	Description
RFID safety switch	
3SE6315-0BB01	Family coded
3SE6315-0BB02	Individually coded, multiple teach-in capability
Actuator	
3SE6310-0BC01	Standard
Connection cable	
3SX5601-2GA05	5 m, M12 socket, 8-pole

Rectangular safety switch, large 25 mm x 88 mm or small 25 mm x 33 mm

Non-contact magnetically operated safety switch

A magnetically operated switch comprises a coded switching magnet and an identical contact block (sensor unit). The switches use reed contacts as mechanical contacts.



Order number	Description
Magnetically operated switch, contact block 25x88 mm	
3SE6604-2BA	With cable 3 m, 1NO+1NC
3SE6604-2BA01	With M8 plug, 4-pole, 1NO+1NC
Actuator, switching magnet (coded), 25 x 88 mm	
3SE6704-2BA	
Magnetically operated switch, contact block 25x33 mm	
3SE6605-3BA	With cable 3 m, 1NO+1NC
Actuator, switching magnet (coded), 25 x 33 mm	
3SE6704-3BA	
Connection cable	
3SX5601-3GA05	5 m, M8 socket, 4-pole

Technical information and support are available at www.siemens.com/SIOS or in the Industry Online Support App.



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