

## Position and Safety Switches

**NEW**

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Article-No.

3RA1943-2C  
3RA1943-2B  
3RA1953-2B  
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12/53	- Compact design		<u>Magnet</u>
12/55	3SE5, open-type design	12/101	3SE66, 3SE67 magnetically operated switches <b>NEW</b>
12/56	Accessories and spare parts		<u>RFID</u>
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	<u>With separate actuator</u>		<u>Note:</u>
12/59	General data		Conversion tool, e.g. from 3SE2 to 3SE5, see <a href="http://www.siemens.com/sirius/conversion-tool">www.siemens.com/sirius/conversion-tool</a>
12/64	3SE5, plastic enclosures <b>NEW</b>		
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	<u>With tumbler</u>		
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# Position and Safety Switches

## Introduction

## Overview



	Position switches, standard					Safety hinge switches	
<b>Enclosure</b>							
Plastic	✓	✓	✓	--	--	✓	✓
Metal	✓	--	✓	✓	✓	✓	✓
Dimensions (W x H x D) in mm	31 × 68 × 33	50 × 53 × 33	40 × 78 × 38	56 × 78 × 38	56 × 100 × 38	31 × 68 × 33	40 × 78 × 38
Degree of protection	IP65, IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67	IP65, IP66/IP67	IP66/IP67
<b>Standards</b>							
IEC 60947-5-1	Mounting and operating points acc. to EN 50047	Operating points acc. to EN 50047	Mounting and operating points acc. to EN 50041	Operating points acc. to EN 50041	Operating points acc. to EN 50047	Mounting and operating points acc. to EN 50047	Mounting and operating points acc. to EN 50041
<b>Approvals</b>	CE, UL, CSA, CCC			CE, UL, CSA, CCC		CE, UL, CSA, CCC	
<b>Contact blocks</b>							
2 slow-action contacts	1 NO + 1 NC, 2 NC		1 NO + 1 NC, 2 NC		2 × (1 NO + 1 NC) --		
2 snap-action contacts	1 NO + 1 NC		1 NO + 1 NC		2 × (1 NO + 1 NC)	1 NO + 1 NC	
• Short stroke	1 NO + 1 NC		✓		--	--	
• With 2 × 2 mm contact gap	1 NO + 1 NC		✓		--	--	
3 slow-action contacts	1 NO + 2 NC; 2 NO + 1 NC		1 NO + 2 NC; 2 NO + 1 NC		--	--	
• With make-before-break	1 NO + 2 NC		1 NO + 2 NC		2 × (1 NO + 2 NC) --		
3 snap-action contacts	1 NO + 2 NC		1 NO + 2 NC		--	1 NO + 2 NC	
<b>Special features</b>							
LED status display	✓		✓		--	✓	
Increased corrosion protection	✓		✓		✓	✓	
<b>ASIsafe integrated</b>	✓		✓		--	✓	
<b>Electrical specifications</b>							
Insulation voltage $U_i$	400 V		400 V			400 V	
Conventional thermal current $I_{th}$	6 A/10 A (3-/2-pole)		6 A/10 A (3-/2-pole)			6 A/10 A (3-/2-pole)	
<b>Connections</b>							
Cable entry	1 × M20 × 1.5	2 × M20 × 1.5	1 × M20 × 1.5	3 × M20 × 1.5	3 × M20 × 1.5	1 × M20 × 1.5	1 × M20 × 1.5
M12 connector socket, 4-, 5- or 8-pole	✓	✓	✓	✓	✓	✓	✓
Connector socket, 6-pole + PE	--	--	✓	✓	--	--	--
<b>Actuators</b>							
Rounded plungers and roller plungers	✓		✓		✓	--	
Roller levers and angular roller levers	✓		✓		✓	--	
Spring rod	✓		✓		--	--	
Twist levers and rod actuators	✓		✓		✓	--	
Fork lever	--		✓		--	--	
Hinge switches	--		--		--	✓	
<b>Page</b>							
Complete units	12/15, 12/33	12/25	12/21, 12/37	12/41	12/45	12/80	12/81
Modular system	12/19, 12/35	12/27	12/23, 12/39	12/43	12/46	--	--
Ambient temperature –40 °C	12/29, 12/49	12/29	12/32, 12/50	12/51	12/51	--	--
ASIsafe	12/86, 12/88	12/86	12/90	12/90	--	12/99	12/100

✓ Available

-- Not available



	Compact design	Open-type	Safety switches with separate actuator		Safety switches with tumbler	RFID safety switches
<b>Enclosure</b>						
Plastic	--	✓	✓	✓	✓	✓
Metal	✓		✓	✓	✓	--
Dimensions (W x H x D) in mm	30 x .. x .. 40 x .. x ..	30 x 48.5 x 20	31 x 68 x 33, 50 x 53 x 33	40 x 78 x 38, 56 x 78 x 38	54 x 185 x 44	25 x 91 x 22
Degree of protection	IP66/IP67	IP10 or IP20	IP65, IP66/IP67	IP66/IP67	IP66/IP67, IP69K	IP69K
<b>Standards</b>	--	Mounting and operating points acc. to EN 50047	Mounting acc. to EN 50047	Mounting acc. to EN 50041	EN 1088	Category 4 according to ISO 13849-1, PL e acc. to ISO 13849-1, SIL 3 acc. to IEC 61508
IEC 60947-5-1						
<b>Approvals</b>	CE, UL, CSA, CCC	--	CE, TÜV, UL, CSA, CCC		CE, TÜV, UL, CSA, CCC	CE, TÜV, UL, CSA <sup>1)</sup>
<b>Contact blocks/outputs</b>						
2 slow-action contacts	--	1 NO + 1 NC	1 NO + 1 NC, 2 NC		--	--
2 snap-action contacts	1 NO + 1 NC	1 NO + 1 NC	--		--	--
• Short stroke	--	✓				
• With 2 x 2 mm contact gap	--	✓				
3 slow-action contacts	--	1 NO + 2 NC; 2 NO + 1 NC	1 NO + 2 NC		2 x (1 NO + 2 NC)	--
• With make-before-break	--	1 NO + 2 NC				
3 snap-action contacts	--	1 NO + 2 NC	--		--	--
Electron. safety outputs	--	--	--		--	2
<b>Special features</b>						
LED status display	--	--	✓		✓	✓
Increased corrosion protection	--	--	✓		✓	✓
<b>ASIsafe integrated</b>	--	--	✓		✓	--
<b>Electrical specifications</b>						
Insulation voltage $U_i$	400 V	400 V	400 V		400 V	--
Conventional thermal current $I_{th}$	6 A	6 A	6 A		6 A	--
<b>Connections</b>						
Cable entry	--	--	1 x M20 x 1.5, 2 x M20 x 1.5	1 x M20 x 1.5, 3 x M20 x 1.5	3 x M20 x 1.5	--
M12 connector socket, 4-, 5- or 8-pole	✓	--	✓	✓	✓	✓
Molded cables	✓	--	--	--	--	--
AS-Interface	--	--	✓	✓	✓	--
<b>Actuators</b>						
Plungers, twist levers	✓	✓	--		--	--
Separate actuators	--	--	✓		✓	--
<b>Page</b>						
Complete units	12/53	12/55	12/64, 12/66	12/65, 12/67	12/74 to 12/76	--
Modular system	--	--	--	--	--	12/103
ASIsafe	--	--	12/93	12/94	12/97, 12/98	--

✓ Available

-- Not available

1) CCC not required for voltages &lt; 36 V.

**Note:**

Safety characteristics, see Chapter 16, "Appendix" → "Standards and Approvals".

## SIRIUS 3SE5 Mechanical Position Switches

### General data

#### Overview

The innovative SIRIUS 3SE5 position switches are modern in design, compact, modular and simple to connect. They save time and increase flexibility during installation of a whole range of switch variants. In principle it is possible to combine any enclosure with any operating mechanism, paying due consideration to the EN 50041 and EN 50047 standards where necessary.

#### Complete units

Popular versions of the position switches in standard enclosures are available as complete units.



3SE5 position switches with plastic and metal enclosures

#### Modular system

The 3SE5 series features a new modular system comprising different sizes of the basic switch and an actuator which must be ordered separately. Thanks to the modular design of the switch the user can select the right solution for his application from numerous versions and install it himself in a very short time.

An easy plug-in method enables fast replacement of the actuator heads.



Examples of selection options in the modular system

#### Design

All enclosure variants have an integrated chlorinated rubber diaphragm (high functional safety in cold and aggressive environments).

#### Enclosure sizes

The 3SE5 switches are available in five different enclosure sizes with 2 or 3 contacts and with the XL enclosure:

- Open-type position switch IP20 or IP10
- Plastic enclosures according to EN 50047, 31 mm wide, IP65, 1 cable entry
- Metal enclosures according to EN 50047, 31 mm wide, IP66/IP67, 1 cable entry
- Plastic and metal enclosures according to EN 50041, 40 mm wide, IP66/IP67, 1 cable entry
- Plastic enclosures, 50 mm wide, IP66/IP67, 2 cable entries
- Metal enclosures, 56 mm wide, IP66/IP67, 3 cable entries
- XL metal enclosures with 4 to 6 contacts, 56 mm wide, IP66/IP67, 3 cable entries

#### Enclosure versions

Various basic switches can be selected for the enclosures of the 3SE5 series:

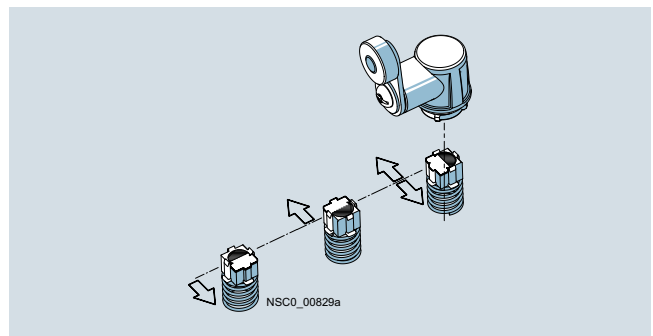
- With contact blocks with two or three contacts (screw terminals) designed as slow-action or snap-action contacts; the slow-action contacts also with make-before-break
- Optional LED status display
- With mounted four- or five-pole M12 connector socket (available for the wide enclosures as an accessory for self-assembly)
- With 6-pole connector socket + PE on the metal enclosures
- Versions with increased corrosion protection
- Versions for operating temperature down to  $-40\text{ }^{\circ}\text{C}$
- AS-Interface version with integrated ASIsafe electronics for all enclosure designs (see page 12/84)

#### Actuator variants

All operating mechanisms can be rotated around the axis in increments of  $22.5^{\circ}$ . The following actuator variants are available:

- Standard, rounded and roller plungers
- Roller levers and angular roller levers
- Spring rod
- Twist levers and rod actuators with twist actuator
- Fork levers with twist actuator

The actuator rollers are available with various materials and diameters.



Twist actuator for twist levers and rod levers, with setting of switching direction to right, left or right/left (standard for all twist actuators except fork levers)

**Cover design**

The mechanical position switches have a turquoise cover.



On request the switches can be delivered ex works with a yellow cover. The cover has no effect on the mode of operation. Both versions can be used in safety applications (see also page 12/17).

**Many different contact types**

Exchangeable two and three-pole contact blocks for all enclosure sizes



The three-pole contact block with snap-action or slow-action contacts is regularly available for all enclosure forms. The same installation space is required as for a two-pole block. The version with 1 NO + 2 NC offers for example more safety through redundant shutdowns (2 NC contacts) with simultaneous signaling (NO contact). The three-pole blocks are also available with make-before-break and with 2 NO + 1 NC.

**Contact reliability**

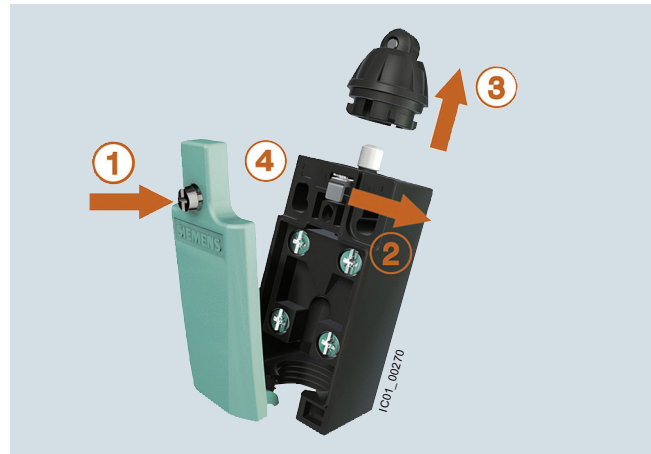
The contact blocks ensure an extremely high contact stability. This applies even when the devices are switching low voltages and currents, e.g. 1 mA at 5 V DC.

**Positive opening** 

The NC contacts of the switch are forced open mechanically, positively-driven and reliably by the plunger. This is referred to as "positive opening".

**Mounting**

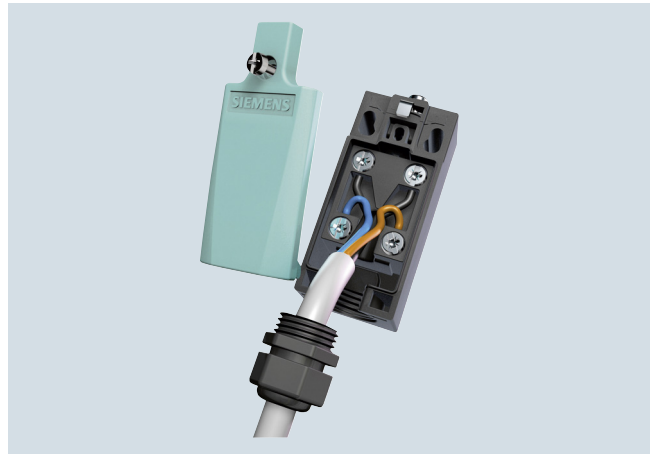
Easy plug-in method for fast replacement of the actuator heads



Open the cover (1)  
Actuate the locking lever (2)  
Replace the head (turnable by  $16 \times 22.5^\circ$ ) (3)  
Lock and close the cover (4)

**Quick-connect technology**

For plastic enclosures with a width of 31 mm



These position switches can be wired quickly and easily as an added customer benefit. The connecting cable is first connected to the terminals of the contact block and then guided through a slit into the cable gland opening. The time saved through this new connection method is approx. 20 to 25 %.

A cable gland with seal must be used with the quick-connect method.

**Optional LED indicators**

LED indicators are available for all enclosure sizes except for XL. The enclosures are supplied with an LED signaling indicator (1 × green + 1 × yellow). This is the first time that optical signaling equipment is also available for small standard enclosures according to EN 50047. The LEDs are implemented in 24 V DC and 230 V AC.

# SIRIUS 3SE5 Mechanical Position Switches

## General data

### Article No. scheme

Digit of the Article No.	1st - 3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th
	□□□	□	□	□	□	-	□	□	□	□	-	□	□	□
<b>SIRIUS position and safety switches</b>	<b>3 S E</b>													
<b>Series</b>	<b>5</b>													
<b>Standard (1 = EN 50041, 2 = EN 50047, 3 = with tumbler)</b>	□													
<b>Enclosure material and width (e.g. 1 = metal, narrow)</b>	□													
<b>Connection (2 = cable entry, 4, 5 = connector socket)</b>	□													
<b>LED (0 = none, 1 = 24 V DC, 2 = 115 V AC, 3 = 230 V AC)</b>	□													
<b>Version of contacts (e.g. C = snap-action 1 NO + 1 NC)</b>	□													
<b>Version of operating mechanism (e.g. C02 = rounded plunger)</b>	□ □ □													
<b>Additional details (optional)</b>	□ □ □ □													
<b>Example</b>	<b>3 S E 5 1 1 2 - 0 C C 0 2</b>													

### Note:

The Article No. scheme is presented here merely for information purposes and for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the catalog in the Selection and ordering data.

### Manuals

For more information, see [System Manual "SIRIUS 3SE5 / 3SF1 Position Switches", http://support.automation.siemens.com/WW/view/en/43920150](http://support.automation.siemens.com/WW/view/en/43920150)

## Benefits

The 3SE5 position switches differ from the previous series through the following new characteristics:

- The modular design of the product range allows a number of versions with a smaller number of bearing types for enclosures and operating mechanisms.
- All actuators can be turned around the axis in increments of 22.5° (see picture, page 12/5).
- Rounded and roller plungers according to EN 50041 with 3 mm overtravel (total travel 9 mm) for greater tolerance when switching.
- All enclosure sizes – now also including the small enclosure 31 mm wide – are optionally available with an LED signaling indicator (see picture, page 12/5).
- All enclosure variants have an integrated chlorinated rubber diaphragm (high functional safety in cold and aggressive environments).
- All contact blocks are replaceable (see page 12/57).
- The three-pole contact blocks are available for all enclosure sizes (see picture, page 12/5).
- Elements with 1 NO + 2 NC slow-action contacts with make-before-break and 2 NO + 1 NC.
- The short-stroke contact block 1 NO + 1 NC improves the precision of the switching operation through a reduced actuation path.
- The contact block with 1 NO + 1 NC snap-action contacts with 2 x 2 mm contact opening is suitable for simultaneous disconnection and signaling, particularly in the elevator industry.
- XL metal enclosures for accommodating two 2- or 3-pole contact blocks.
- The plastic enclosure with a width of 31 mm has simple and fast wiring equipment which makes it possible to save approx. 20 to 25 % of the time when connecting (see picture, page 12/5).
- The ASIsafe electronic component is integrated in the enclosure for the versions with AS-Interface connection (see page 12/84); an additional adapter is not required.

## Application

With the standard position switches, mechanical positions of moving machine parts are converted into electrical signals. Through their modular and uniform design and large number of variants, the devices can comply with practically all requirements in industry.

Devices are available with enclosure versions to suit the particular ambient conditions. Different control tasks can be performed with the best contact blocks suited for the particular purpose. And many different actuator variants are available to match the mechanical configuration of the moving machined parts. Dimensions, fixing points and characteristics are largely in accordance with the EN 50041 or EN 50047 standards.

The devices are suitable for use in any climate.

### Standards

IEC 60947-5-1 or EN 60947-5-1

The protective measure of "total insulation" by the molded-plastic enclosure is guaranteed by the use of molded-plastic screw glands.

### Safety position switches

For controls according to IEC 60204-1 or EN 60204-1 the devices can be used as a safety position switch. To secure position switches against changes in their position, keyed techniques must be employed on installation.

### Safety circuits

IEC 60947-5-1 and EN 60947-5-1 require positive opening of the NC contacts, i.e. for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked according to the IEC standard 60947-5-1 with the symbol ☞.

Category 2 according to EN ISO 13849-1 can be attained with 3SE5 position switches with ☞, and category 3 or 4 when using an additional position switch, if the corresponding fail-safe evaluation units are selected and correctly installed, e.g. the 3SK1 or 3TK28 safety relays or matching devices from the ASIsafe, SIMATIC or SINUMERIK product ranges. The operating mechanisms (actuators) must also be connected to the enclosure by keyed techniques. The corresponding operating mechanisms are marked in the catalog with ☞.

**Contacts for each application**

- **Snap-action contacts:** NC and NO contacts switch simultaneously – regardless of the actuating speed ( $v_{\min} = 0.01$  m/s) and contact erosion
- **Slow-action contacts:** Difference in travel between "NC contact opens" and "NO contact closes"; the switching speed is the same as or proportional to the actuating speed ( $v_{\min} = 0.4$  m/s)
- **Slow-action contacts with make-before-break:** e.g. suitable for adding a second function to a sequence control

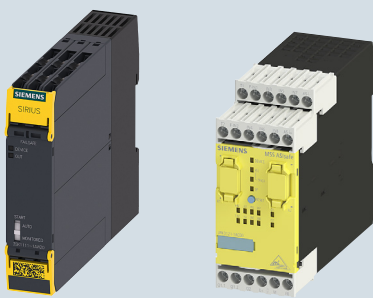





**Operating mechanisms for each application**Standard, rounded and roller plungers

- Operation in direction of the plunger axis or in case of roller plunger with bar at right angles to the plunger axis
- The roller plunger is recommended for lateral actuation and relatively long overtravel

Roller levers and angular roller levers

- For actuators made of finely ground steel in the form of cams, straight-edges (approach angle 30°) or cam disks

**Monitoring with fail-safe evaluation units from the 3SK1 and 3RK3 series**

Safe evaluation units	Maximum achievable safety level according to type of switch				
	Compact	Standard	Hinge	Separate actuator	Tumbler
 <p>3SK1      3RK3</p>	 <p>3SE54</p>	 <p>3SE51 / 3SE52</p>	 <p>3SE51 / 3SE52</p>	 <p>3SE51 / 3SE52</p>	 <p>3SE53</p>
<b>Use of only one position/safety switch</b>					
Monitoring with 1 contact: 1 x NC contact	<b>SIL 1 / PL c</b>				
Monitoring with 2 contacts: 2 x NC contact or 1 x NC contact + 1 x NO contact	<b>SIL 1 / PL c</b>	<b>SIL 2 / PL d</b>			
<b>Use of a second position/safety switch</b>					
Standard switch	3SE51 / 3SE52		<b>SIL 3 / PL e</b>		
Safety switch / hinge switch	3SE51 / 3SE52				
Safety switch with separate actuator	3SE51 / 3SE52				
Safety switches with tumbler	3SE53				

**Note:**

Taking account of certain fault exclusions (e.g. actuator breakage), use of just one hinge switch or a switch with separate actuator with or without tumbler up to SIL 2 or PL d is possible as described in the table.

Since the machine manufacturer must provide proof of fault exclusion, the component manufacturer is unable to carry out a definitive assessment of the measures taken.

Spring rod

- Can be used for undefined actuations and changing starting conditions
- Starting from any direction is possible

Twist levers and rod actuators

- For a high starting speed ( $v = 1.5$  m/s)
- Variety of starting options
- Insensitive to oil, grinding dust and coarse-grained material
- Adjustment of the lever in increments of 10°
- Can be adjusted with left or right switching

Fork lever

- Switchable in two directions
- Latching actuator
- For reciprocating movements

More information is provided in the document at the following link:  
<http://support.automation.siemens.com/WW/view/en/35443942>.

The maximum achievable SIL or PL always depends on other assumptions as well. Factors to be taken into account include the DC (Declaration), the CCF (\*), and the number of actuations.

Information on the safe evaluation units and an introduction to safety systems, see Chapter 11 "Safety Technology".

## SIRIUS 3SE5 Mechanical Position Switches

## General data

## Technical specifications

Type		3SE51.., 3SE52..	3SE541.	3SE542.
<b>General data</b>				
<b>Standards</b>		IEC 60947-5-1, EN 60947-5-1		
<b>Rated insulation voltage <math>U_i</math></b>	V	400 <sup>1)</sup>	400	
<b>Degree of pollution</b> acc. to IEC 60664-1		Class 3	Class 3	
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	kV	6	4	
<b>Rated operational voltage <math>U_e</math></b>	V	400 V AC, over 300 V AC only for equal potential <sup>2)</sup>	300 AC	
<b>Conventional thermal current <math>I_{th}</math></b>	A	6	10	
<b>Rated operational current <math>I_e</math></b>		2-pole	3-pole	2-pole
• With alternating current 50/60 Hz		$I_e$ / AC-15	$I_e$ / AC-15	$I_e$ / AC-15
- At 24 V	A	6	6	6
- At 120 V	A	6	3	6
- At 240 V	A	3	1.5	3
• For direct current		$I_e$ / DC-13	$I_e$ / DC-13	$I_e$ / DC-13
- At 24 V	A	3	3	3
- At 125 V	A	0.55	0.55	0.55
- At 250 V	A	0.27	0.27	0.27
<b>Short-circuit protection<sup>3)</sup></b>				
• With DIAZED fuse links, operational class gG	A	6	10	
• With miniature circuit breaker, Char. C	A	1	3	
<b>Mechanical endurance</b>				
• Basic switch		15 × 10 <sup>6</sup> operating cycles	30 × 10 <sup>6</sup> operating cycles	30 × 10 <sup>6</sup> operating cycles
• With spring rod, 3SE5...-R..		10 × 10 <sup>6</sup> operating cycles	--	--
• With fork lever, 3SE51...-T..		1 × 10 <sup>6</sup> operating cycles	--	--
<b>Electrical endurance</b>				
• With 3RH.1, 3RT contactors in size S00, S0		10 × 10 <sup>6</sup> operating cycles	10 × 10 <sup>6</sup> operating cycles	5 × 10 <sup>6</sup> operating cycles
• For utilization category AC-15 when switching off $I_e$ / AC-15 at 240 V		100 000 operating cycles	--	--
• With utilization category DC-12/DC-13		For direct current depending on the loading of the switch		
<b>Switching frequency</b>		6 000 operating cycles/h	1 800 operating cycles/h	
With 3RH.1, 3RT contactors in size S00, S0				
<b>Switching accuracy</b>	mm	0.05	0.05	
For repeated switching, measured at the plunger of the contact block				
• With twist actuators		1°	1°	
<b>Rated data according to <math>\text{C}</math>, <math>\text{D}</math> and <math>\text{A}</math></b>				
• Rated voltage	V	300	300	
• Uninterrupted current	A	6	10	
• Switching capacity		Heavy duty, A 300 / B 300 / Q 300	A 300 / Q 300	

<sup>1)</sup> For slow-action contacts 1 NO + 2 NC with make-before-break ("M") and 2 NO + 1 NC ("P") the following applies: 250 V.

<sup>2)</sup> For slow-action contacts 1 NO + 2 NC with make-before-break ("M") and 2 NO + 1 NC ("P") the following applies: over 250 V AC only equal potential.

<sup>3)</sup> Without any welds according to IEC 60947-5-1.

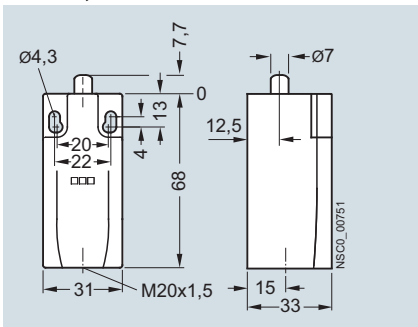
Type		3SE523.	3SE513.	3SE524.	3SE521.	3SE511.	3SE512., 3SE516.	3SE54..	3SE525.
<b>Enclosure</b>									
<b>Enclosure</b>		Ultramid A3X2G7			Zinc diecasting GD Zn Al4 Cu1		Zn/Al	--	
• Material									
• Width	mm	31	40	50	31	40	56	30 / 40	30
<b>Degree of protection</b> acc. to IEC 60529		IP65	IP66/IP67 <sup>1)</sup>					IP67	IP20, IP10
<b>Ambient temperature</b>									
• During operation	°C	-25 ... +85						-25 ... +85	-25 ... +85
• In operation, switch with LEDs	°C	-25 ... +60						--	--
• Storage, transport	°C	-40 ... +90						-40 ... +90	-40 ... +90
<b>Mounting position</b>		Any							
<b>Connection</b>									
<b>Cable entry</b>		1 x (M20 x 1.5)	2 x (M20 x 1.5)	1 x (M20 x 1.5)	3 x (M20 x 1.5)	--	--	--	--
<b>Conductor cross-sections</b>									
• Solid	mm <sup>2</sup>	1 x (0.5 ... 1.5), 2 x (0.5 ... 0.75)							
• Finely stranded with/without end sleeve	mm <sup>2</sup>	1 x (0.5 ... 1.5), 2 x (0.5 ... 0.75)							
• AWG cables, solid or stranded	AWG	1 x (AWG 20 ... 16), 2 x (AWG 20 ... 19)							
<b>Tightening torque</b> , contact block	Nm	0.8 ... 1.0							
<b>Protective conductor connection</b> inside enclosure		--	M3.5			--	--	--	--

<sup>1)</sup> For twist actuators with spring rod and rod actuators: IP65/IP67.

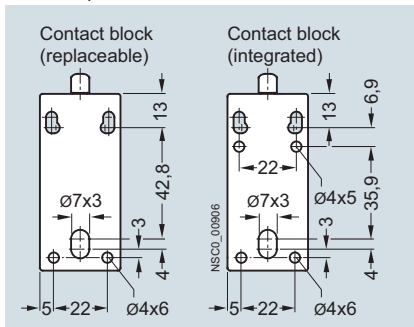


**Dimensions of the basic switches**

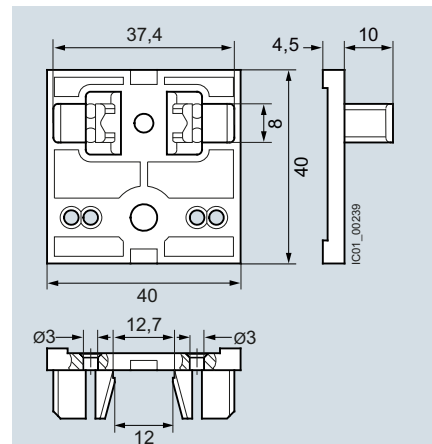
Enclosure width 31 mm, EN 50047,  
with M20 × 1.53/7 connecting thread  
3SE5232, 3SE5212



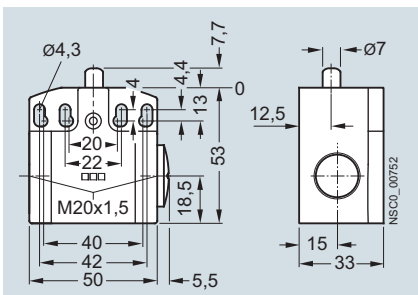
Enclosure width 31 mm, EN 50047,  
rear with fixing holes  
3SE5232, 3SE5212



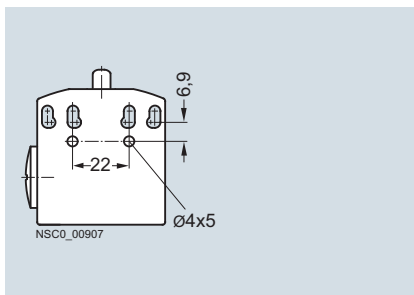
Mounting plate  
for 3SE5232, 3SE5212 position switch  
3SX5100-1A



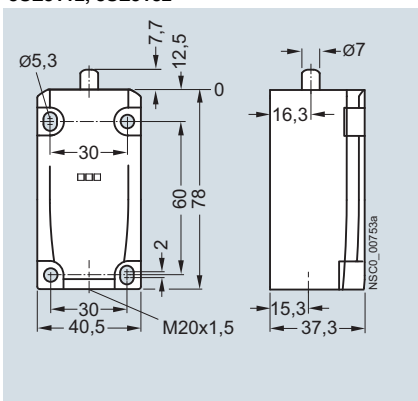
Enclosure width 50 mm,  
with M20 × 1.5 connecting thread  
3SE5242



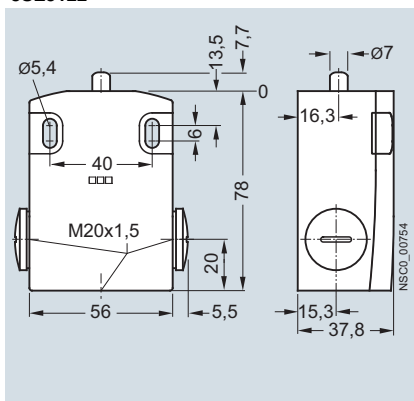
Enclosure width 50 mm,  
rear with fixing holes  
3SE5242



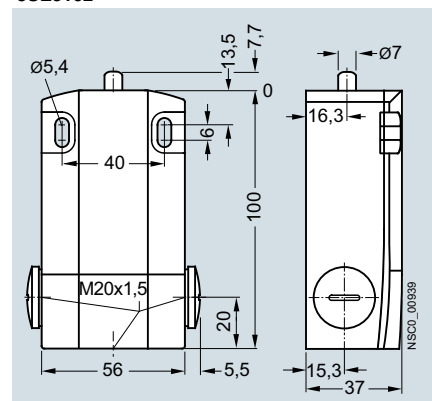
Enclosure width 40 mm, EN 50041,  
with M20 × 1.5 connecting thread  
3SE5112, 3SE5132



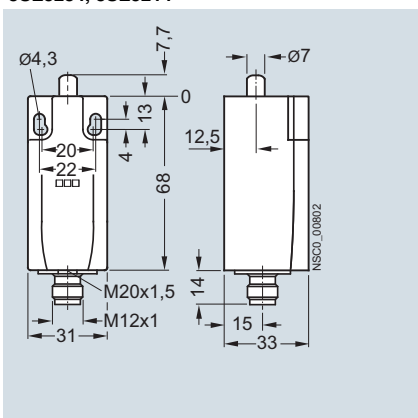
Enclosure width 56 mm,  
with M20 × 1.5 connecting thread  
3SE5122



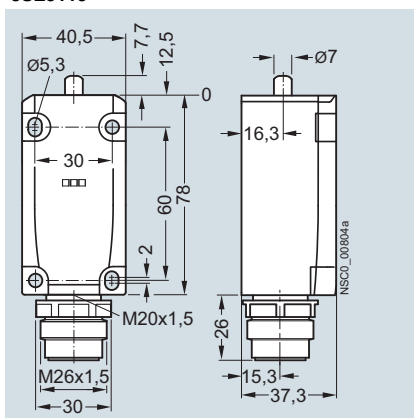
XL enclosure, width 56 mm,  
with M20 × 1.5 connecting thread  
3SE5162



Enclosure width 31 mm, EN 50047,  
with M12 connector socket  
3SE5234, 3SE5214



Enclosure width 40 mm, EN 50041,  
with 6-pole connector socket  
3SE5115



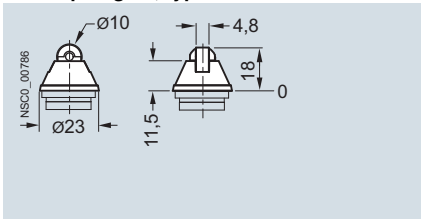
Operating mechanisms for basic switches, see pages 12/10 and 12/11.

# SIRIUS 3SE5 Mechanical Position Switches

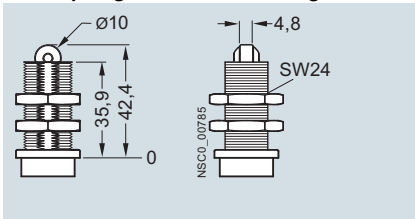
## General data

### Operating mechanisms for enclosure width 31 mm and 50 mm

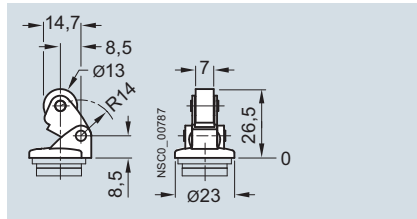
**Roller plungers, type C acc. to EN 50047**



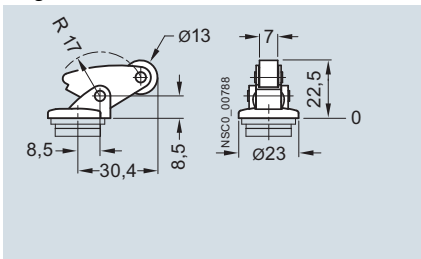
**Roller plunger with central fixing**



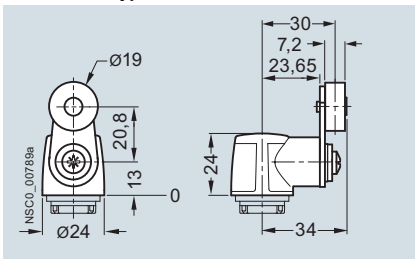
**Roller levers, type E, acc. to EN 50047**



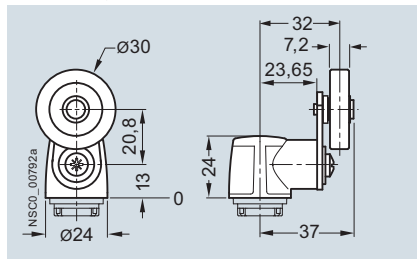
**Angular roller lever**



**Twist lever, type A, acc. to EN 50047**

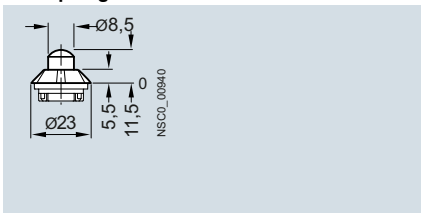


**Twist lever, roller 30 mm**

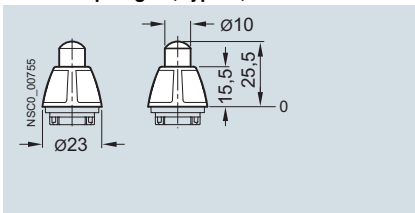


### Operating mechanisms for enclosure width 40 mm and 56 mm

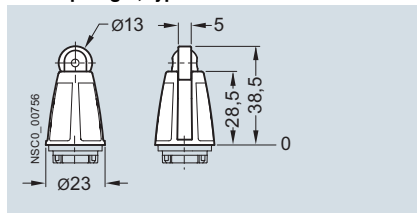
**Plain plunger**



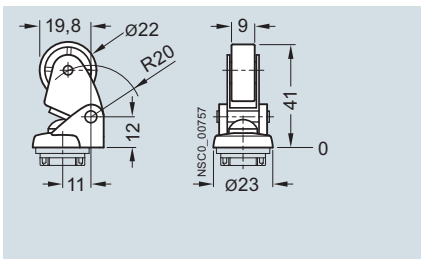
**Rounded plungers, type B, acc. to EN 50041**



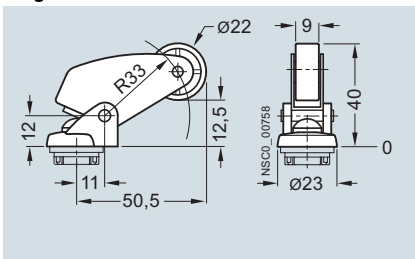
**Roller plunger, type C acc. to EN 50041**



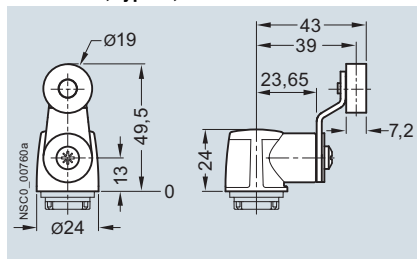
**Roller lever**



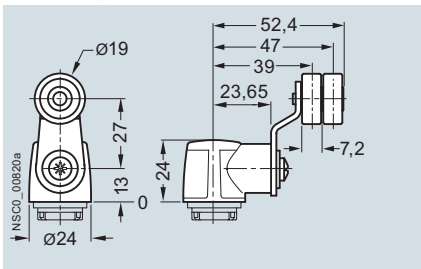
**Angular roller lever**



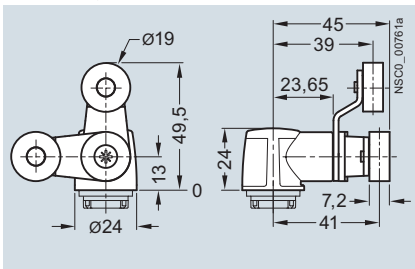
**Twist lever, type A, acc. to EN 50041**



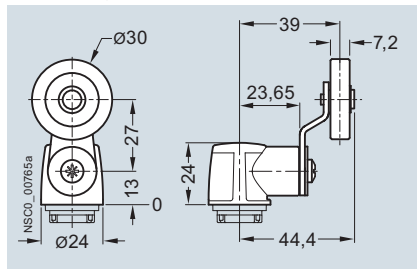
**Twist lever, 2 rollers 19 mm**



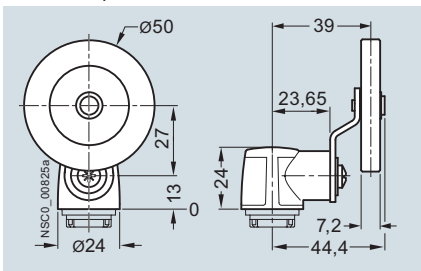
**Fork lever, roller 19 mm**



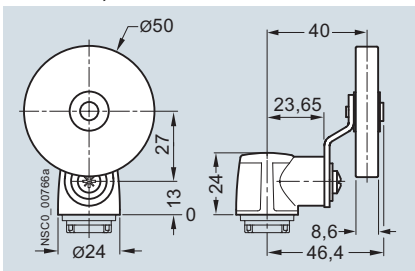
**Twist lever, roller 30 mm**



**Twist lever, roller 50 mm**

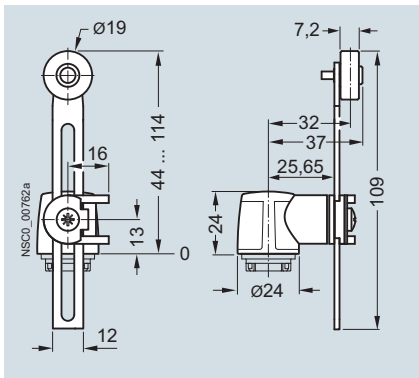
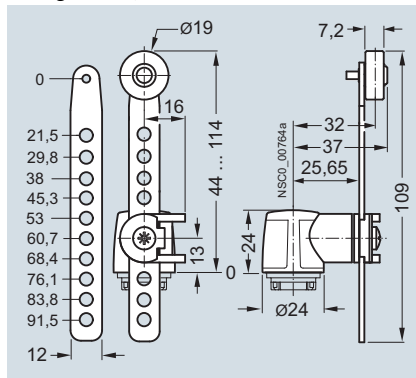
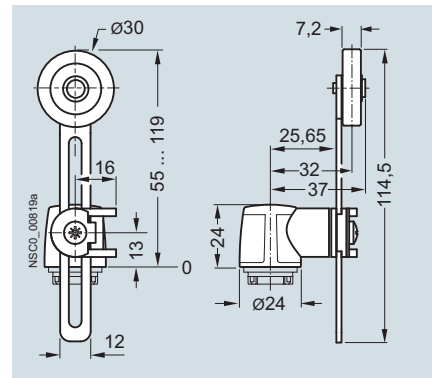
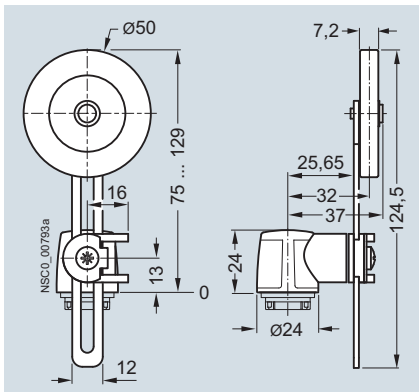
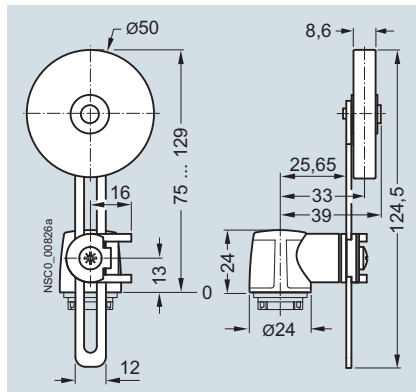
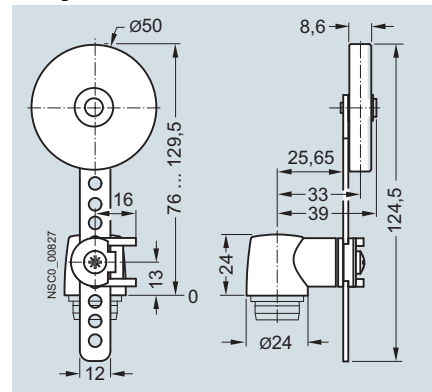


**Twist lever, rubber roller 50 mm**

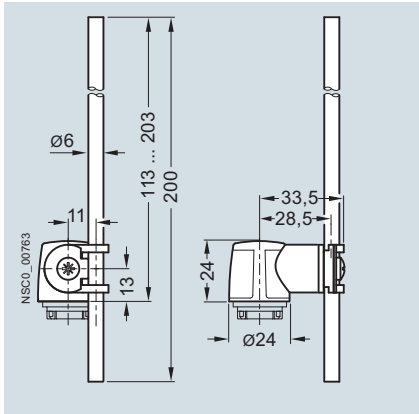


12

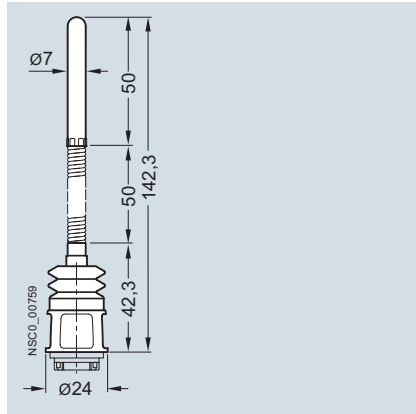
## Operating mechanisms for all enclosure widths

Twist lever, adjustable length,  
roller 19 mmTwist lever, adjustable length,  
with grid hole, roller 19 mmTwist lever, adjustable length,  
roller 30 mmTwist lever, adjustable length,  
roller 50 mmTwist lever, adjustable length,  
rubber roller 50 mmTwist lever, adjustable length,  
with grid hole, rubber roller 50 mm

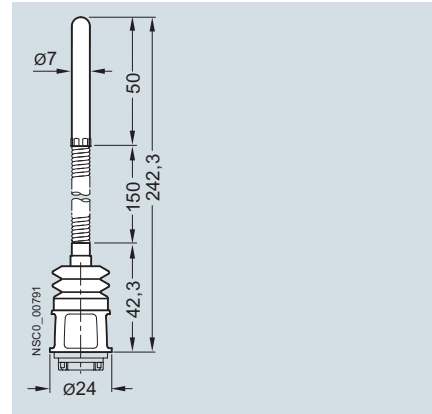
Rod actuator



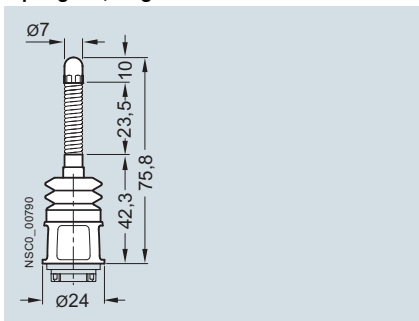
Spring rod, length 142.5 mm



Spring rod, length 242.5 mm



Spring rod, length 76 mm

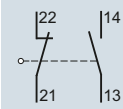




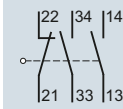
**Circuit diagrams**

Enclosure widths 31, 40, 50 and 56 mm

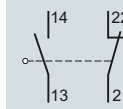
**Slow-action contacts**  
1 NO + 1 NC  
3SE5...-B..., -R...



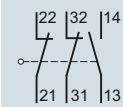
**Slow-action contacts**  
2 NO + 1 NC  
3SE5...-P...



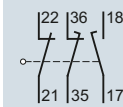
**Snap-action contacts**  
1 NO + 1 NC  
3SE5...-C..., -F..., -G..., -H..., -N...



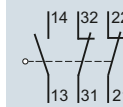
**Slow-action contacts**  
1 NO + 2 NC  
3SE5...-K..., -Q...



**Slow-action contacts**  
1 NO + 2 NC with make-before-break, 3SE5...-M...

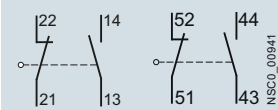


**Snap-action contacts**  
1 NO + 2 NC  
3SE5...-L...

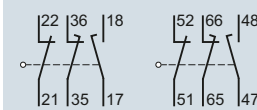


XL enclosures, width 56 mm

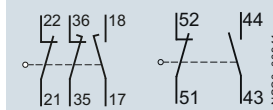
**Slow-action contacts**  
2 x (1 NO + 1 NC)  
3SE5162-0B...



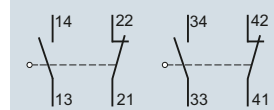
**Slow-action contacts**  
2 x (1 NO + 2 NC)  
with make-before-break, 3SE5162-0D...



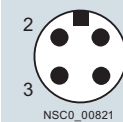
**Slow-action contacts**  
1 NO + 2 NC  
with make-before-break, 1 NO + 1 NC  
3SE5162-0E...



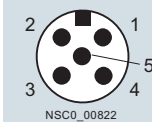
**Snap-action contacts**  
2 x (1 NO + 1 NC)  
3SE5162-0C...

**3SE5 connector assignment**

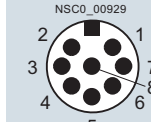
**M12 connector socket, 4-pole**  
3SY3127



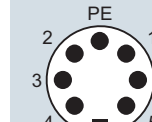
**M12 connector socket, 5-pole**  
3SY3128



**M12 connector socket, 8-pole**  
3SY3134



**Connector sockets, 6-pole + PE**  
3SY3131



Article No.	Connector sockets Type	Contacts Version	LEDs Version	Connections								
				Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	PE
<b>M12 connector sockets (4-, 5- or 8-pole)</b>												
3SE5..4-0....-1AC4	3SY3127	1 NO + 1 NC	--	21	22	13	14	--	--	--	--	--
3SE5..4-0....-1AC5	3SY3128	1 NO + 1 NC	--	21	22	13	14	PE	--	--	--	--
3SE5..4-0....-1AE0	3SY3127	2 NC	--	21	22	31	32	--	--	--	--	--
3SE5..4-0....-1AE1	3SY3128	2 NC	--	21	22	31	32	PE	--	--	--	--
3SE5..4-1C...-1AF3	3SY3128	1 NO + 1 NC snap-action	2 LEDs	21	22	13 / LED gn	14 / LED ye	Ground LED	--	--	--	--
3SE5..4-1B...-1AF3	3SY3128	1 NO + 1 NC slow-action	2 LEDs	21	22	14 / LED gn	13 / LED ye	Ground LED	--	--	--	--
3SE5..4-1L...-1AD4	3SY3134	1 NO + 2 NC snap-action	2 LEDs	21	22	13 / LED gn	14 / LED ye	31	32	Ground LED	PE	--
3SE5..4-1K...-1AD4	3SY3134	1 NO + 2 NC slow-action	2 LEDs	21	22	14 / LED gn	13 / LED ye	31	32	Ground LED	PE	--
<b>Connector sockets, 6-pole + PE</b>												
3SE5..5-0....-1AD0	3SY3131	1 NO + 1 NC	--	21	22	13	14	--	--	--	--	✓
3SE5..5-0....-1AD1	3SY3131	1 NO + 2 NC	--	21	22	13	14	31	32	--	--	✓
3SE5..5-C...-1AF2	3SY3131	1 NO + 1 NC snap-action	2 LEDs	21	22	13 / LED gn	14 / LED ye	--	Ground LED	--	--	✓
3SE5..5-B...-1AF2	3SY3131	1 NO + 1 NC slow-action	2 LEDs	21	22	14 / LED gn	13 / LED ye	--	Ground LED	--	--	✓
3SE5..5-L...-1AD2	3SY3131	2 NC snap-action	2 LEDs	21	22	31	32	13 / LED gn	Ground LED	--	--	✓
3SE5..5-K...-1AD2	3SY3131	2 NC slow-action	2 LEDs	21	22	31	32	14 / LED gn	Ground LED	--	--	✓

gn Green  
ye Yellow

✓ Connected  
-- Not available

# SIRIUS 3SE5 Mechanical Position Switches

## General data

### Options

On the following pages you will find selection tables for complete units as well as components of the modular system.

Complete units

Modular system

The differences between the units are indicated in the selection and ordering data by the symbols shown on orange backgrounds.

Using the modular system you can assemble switch variants which are not available as complete units. Each complete unit can also be supplied as a module.

A basic switch for the modular system comprises an enclosure with a contact block and a cover. Among the basic switches the following versions, for example, can be selected:

- Basic enclosure with teflon plunger
- Version with increased corrosion protection
- Version with M12 connector socket and/or with 2 LEDs
- Version with M12 connector socket or 6-pole + PE

### Complete units

#### Ordering example

Required:

- Position switch according to EN 50047 in a plastic enclosure
- Contact block with slow-action contacts 1 NO + 1 NC
- Angular roller lever, metal lever and plastic roller

### Support function

The 3SE5/3SF1 position and safety switches can also be ordered using an online configurator.



Configurator available in the Industry Mall

The online configurator is indicated in the corresponding tables by the symbol shown on an orange background.

This also enables a complete documentation to be prepared:

- Product data sheets
- Dimensional drawings
- Operating travel diagrams
- CAD data in 2D and 3D model images
- Ordering data
- Product photos

For more information, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

### Modular system

#### Ordering example 1

Required:

- Position switch according to EN 50047 in a plastic enclosure
- Contact block with slow-action contacts 1 NO + 1 NC
- Angular roller lever, metal lever and plastic roller

To be ordered separately:

Version	Modular system
	<input checked="" type="checkbox"/>
Article No.	

#### Basic switches • Enclosure width 31 mm



**With teflon plunger**  
Slow-action contacts  
1 NO + 1 NC

**3SE5232-0BC05**

+

#### Operating mechanisms



**Angular roller levers**  
Metal lever,  
plastic roller

**3SE5000-0AF10**

To be ordered:

Version	Complete units
	<input type="checkbox"/>
Article No.	

#### Complete units • Enclosure width 31 mm



**Angular roller levers**  
**With metal lever and plastic roller 13 mm**  
Slow-action contacts  
1 NO + 1 NC

**3SE5232-0BF10**

#### Ordering example 2

Required:

- Position switch according to EN 50047 in a plastic enclosure
- Contact block with slow-action contacts 1 NO + 1 NC
- Twist levers, high-grade steel lever and plastic roller

To be ordered separately:

Version	Modular system
	<input checked="" type="checkbox"/>
Article No.	

#### Basic switches • Enclosure width 31 mm



**With teflon plunger**  
Slow-action contacts  
1 NO + 1 NC

**3SE5232-0BC05**

+

#### Twist actuators



**Twist actuator**

**3SE5000-0AK00**

**Twist levers**

High-grade steel lever,  
plastic roller

**3SE5000-0AA31**

# SIRIUS 3SE5 Mechanical Position Switches






## 3SE5, Plastic Enclosures

Enclosure width 31 mm acc. to EN 50047

### Selection and ordering data

#### Complete units for installation in control cabinets **NEW**

2 contacts · Degree of protection IP40 · Cable entry by means of a locking plug with Ø 6 mm

Version	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG	
				Article No.	Price per PU			
<b>Complete units<sup>1)</sup> · Enclosure width 31 mm</b>								
<b>Control cabinet type, IP40, rounded plungers, type B, acc. to EN 50047</b>								
	<b>Flat cover</b> Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5232-0HC05-1AB1</b>	1	1 unit	41K	
Rounded plunger, flat cover								
	<b>Flat cover</b> With mounting plate and screws for attachment profile Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5232-0HC05-1AB2</b>	1	1 unit	41K	
Rounded plungers, flat cover, mounting plate								
	<b>Standard cover</b> Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5232-0HC05-1AB3</b>	1	1 unit	41K	
Rounded plungers, standard cover								
	<b>Standard cover</b> With mounting plate and screws for attachment profile Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5232-0HC05-1AB4</b>	1	1 unit	41K	
Rounded plungers, standard cover, mounting plate								
<b>Accessories</b>								
	<b>Mounting plate</b> Suitable for 3SE523, and 3SE521, position switches with a width of 31 mm	--	--	B	<b>3SX5100-1A</b>	1	1 unit	41K
Mounting plate								

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

1) The control cabinet types are not basic switches for the modular system.

2) Subsequent replacement of contact blocks is not possible.








## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Plastic Enclosures


Enclosure width 31 mm acc. to EN 50047

#### Complete units

2 or 3 contacts · Degree of protection IP65 · Cable entry M20 × 1.5<sup>1)</sup>

Version	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		
<b>Complete units<sup>2)</sup> · Enclosure width 31 mm</b>							
<b>Rounded plungers, type B, acc. to EN 50047</b>							
<b>With teflon plunger</b>							
 Rounded plungers	Slow-action contacts	1 NO + 1 NC --	⊕ ▶	<b>3SE5232-0BC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5232-0CC05</b>	1	1 unit	41K
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --	⊕ ▶	<b>3SE5232-0HC05</b>	1	1 unit	41K
	Snap-action contacts • Short stroke, integrated <sup>3)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5232-0FC05</b>	1	1 unit	41K
	Snap-action contacts • 2 × 2 mm contact gap	1 NO + 1 NC --	⊕ B	<b>3SE5232-0GC05</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ ▶	<b>3SE5232-0KC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ ▶	<b>3SE5232-0LC05</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ A	<b>3SE5232-0MC05</b>	1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ A	<b>3SE5232-0PC05</b>	1	1 unit	41K
<b>With increased corrosion protection</b>							
 With increased corrosion protection	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5232-0BC05-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5232-0CC05-1CA0</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5232-0KC05-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5232-0LC05-1CA0</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ B	<b>3SE5232-0MC05-1CA0</b>	1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ B	<b>3SE5232-0PC05-1CA0</b>	1	1 unit	41K
<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>							
 With 2 LEDs	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5234-0BC05-1AC4</b>	1	1 unit	41K
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --	⊕ A	<b>3SE5234-0HC05-1AC4</b>	1	1 unit	41K
	Slow-action contacts	2 NC --	⊕ B	<b>3SE5234-0KC05-1AE0</b>	1	1 unit	41K
	Snap-action contacts	2 NC --	⊕ A	<b>3SE5234-0LC05-1AE0</b>	1	1 unit	41K
<b>With 2 LEDs, yellow/green</b>							
 With 2 LEDs	Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5232-1KC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5232-1LC05</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5232-3KC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5232-3LC05</b>	1	1 unit	41K
<b>With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs</b>							
 With 2 LEDs	Slow-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5234-1BC05-1AF3</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5234-1CC05-1AF3</b>	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> A cable gland with seal must be used with the quick-connect method.

<sup>2)</sup> Popular versions.

<sup>3)</sup> Subsequent replacement of contact blocks is not possible.



# SIRIUS 3SE5 Mechanical Position Switches






## 3SE5, Plastic Enclosures

Enclosure width 31 mm acc. to EN 50047

2 or 3 contacts · Degree of protection IP65 · Cable entry M20 × 1.5<sup>1)</sup>

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

**Complete units<sup>2)</sup> · Enclosure width 31 mm**

	<b>Roller plungers, type C, acc. to EN 50047</b>								
	<b>With plastic roller 10 mm</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5232-0BD03</b>		1	1 unit	41K
	Snap-action contacts • Integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ ▶	<b>3SE5232-0HD03</b>		1	1 unit	41K
	Snap-action contacts • Short stroke, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ B	<b>3SE5232-0FD03</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0KD03</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0LD03</b>		1	1 unit	41K
	<b>Actuator head rotated by 90°</b>								
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0LD03-1AH0</b>		1	1 unit	41K
	<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>								
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ B	<b>3SE5234-0HD03-1AC4</b>		1	1 unit	41K
	<b>With yellow cover <span style="color: orange;">NEW</span></b>								
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0LD03-1AG0</b>		1	1 unit	41K
	<b>Roller plungers with central fixing</b>								
	<b>With plastic roller 10 mm</b>								
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ B	<b>3SE5232-0HD10</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0KD10</b>		1	1 unit	41K
	<b>Roller levers, type E acc. to EN 50047</b>								
	<b>With metal lever and plastic roller 13 mm</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ A	<b>3SE5232-0BE10</b>		1	1 unit	41K
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ ▶	<b>3SE5232-0HE10</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0KE10</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0LE10</b>		1	1 unit	41K
	<b>With increased corrosion protection (ICP), with high-grade steel lever and plastic roller 13 mm</b>								
	Snap-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5232-0CE12-1CA0</b>		1	1 unit	41K
	<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>								
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ B	<b>3SE5234-0HE10-1AC4</b>		1	1 unit	41K
	<b>With high-grade steel lever and plastic roller 13 mm</b>								
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0LE12</b>		1	1 unit	41K
	<b>Angular roller levers</b>								
	<b>With metal lever and plastic roller 13 mm</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5232-0BF10</b>		1	1 unit	41K
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ A	<b>3SE5232-0HF10</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0KF10</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0LF10</b>		1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> A cable gland with seal must be used with the quick-connect method.

<sup>2)</sup> Popular versions.

<sup>3)</sup> Subsequent replacement of contact blocks is not possible.

## SIRIUS 3SE5 Mechanical Position Switches






### 3SE5, Plastic Enclosures

Enclosure width 31 mm acc. to EN 50047

2 or 3 contacts · Degree of protection IP65 · Cable entry M20 × 1.5<sup>1)</sup>

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.	Price per PU			

#### Complete units<sup>2)</sup> · Enclosure width 31 mm

	<b>Spring rod</b>							
	<b>Length 142.5 mm, with plastic plunger 50 mm</b>							
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		A	<b>3SE5232-0HR01</b>		1	1 unit 41K
	<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>							
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		B	<b>3SE5234-0HR01-1AC4</b>		1	1 unit 41K
	<b>Twist levers, type A acc. to EN 50047</b>							
	<b>With metal lever 21 mm and plastic roller 19 mm</b>							
	Slow-action contacts	1 NO + 1 NC --		⊕ A	<b>3SE5232-0BK21</b>		1	1 unit 41K
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ B	<b>3SE5232-0HK21</b>		1	1 unit 41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0KK21</b>		1	1 unit 41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5232-0LK21</b>		1	1 unit 41K
	<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>							
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ B	<b>3SE5234-0HK21-1AC4</b>		1	1 unit 41K
	<b>With metal lever 35 mm and plastic roller 19 mm</b>							
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ B	<b>3SE5232-0HK15</b>		1	1 unit 41K
	<b>Twist lever, adjustable length</b>							
	<b>With metal lever with grid hole and plastic roller 19 mm</b>							
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		⊕ A	<b>3SE5232-0HK60</b>		1	1 unit 41K
	<b>With metal lever and plastic roller 19 mm</b>							
	Slow-action contacts	1 NO + 1 NC --		B	<b>3SE5232-0BK50</b>		1	1 unit 41K
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		▶	<b>3SE5232-0HK50</b>		1	1 unit 41K
	Snap-action contacts	1 NO + 2 NC --		B	<b>3SE5232-0LK50</b>		1	1 unit 41K
	<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>							
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		B	<b>3SE5234-0HK50-1AC4</b>		1	1 unit 41K
	<b>Rod actuator</b>							
	<b>With aluminum rod, length 200 mm</b>							
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		B	<b>3SE5232-0HK80</b>		1	1 unit 41K
	<b>With plastic rod, length 200 mm</b>							
Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		B	<b>3SE5232-0HK82</b>		1	1 unit 41K	
<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>								
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --		B	<b>3SE5234-0HK82-1AC4</b>		1	1 unit 41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> A cable gland with seal must be used with the quick-connect method.

<sup>2)</sup> Popular versions.

<sup>3)</sup> Subsequent replacement of contact blocks is not possible.

Note:

If the device you require is not available as a complete unit, see "Modular System", page 12/19.








# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Enclosure width 31 mm acc. to EN 50047

### Modular system

2 or 3 contacts · Degree of protection IP65 · Cable entry M20 × 1.5<sup>1)</sup>

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		
<b>Basic switches · Enclosure width 31 mm (with rounded plunger<sup>2)</sup>)</b>							
 Basic switch	<b>With teflon plunger</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ ▶	<b>3SE5232-0BC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5232-0CC05</b>	1	1 unit	41K
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --	⊕ ▶	<b>3SE5232-0HC05</b>	1	1 unit	41K
	Snap-action contacts • Short stroke, integrated <sup>3)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5232-0FC05</b>	1	1 unit	41K
	Snap-action contacts • 2 × 2 mm contact gap	1 NO + 1 NC --	⊕ B	<b>3SE5232-0GC05</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ ▶	<b>3SE5232-0KC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ ▶	<b>3SE5232-0LC05</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ A	<b>3SE5232-0MC05</b>	1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ A	<b>3SE5232-0PC05</b>	1	1 unit	41K
 With increased corrosion protection	<b>With increased corrosion protection<sup>4)</sup></b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5232-0BC05-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5232-0CC05-1CA0</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5232-0KC05-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5232-0LC05-1CA0</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ B	<b>3SE5232-0MC05-1CA0</b>	1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ B	<b>3SE5232-0PC05-1CA0</b>	1	1 unit	41K
 With M12 plug	<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5234-0BC05-1AC4</b>	1	1 unit	41K
	Snap-action contacts, integrated <sup>3)</sup>	1 NO + 1 NC --	⊕ A	<b>3SE5234-0HC05-1AC4</b>	1	1 unit	41K
	Slow-action contacts	2 NC --	⊕ B	<b>3SE5234-0KC05-1AE0</b>	1	1 unit	41K
	Snap-action contacts	2 NC --	⊕ A	<b>3SE5234-0LC05-1AE0</b>	1	1 unit	41K
 With 2 LEDs	<b>With 2 LEDs, yellow/green</b>						
	Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5232-1KC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5232-1LC05</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5232-3KC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5232-3LC05</b>	1	1 unit	41K
 With M12 plug and 2 LEDs	<b>With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs</b>						
	Slow-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5234-1BC05-1AF3</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5234-1CC05-1AF3</b>	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> A cable gland with seal must be used with the quick-connect method.

<sup>2)</sup> For enclosures with widths of 31 mm, the basic switch is a complete unit with rounded plungers.

<sup>3)</sup> Subsequent replacement of contact blocks is not possible.

<sup>4)</sup> Use corresponding high-grade steel lever.












Note:

Selection aid, see page 12/14.

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Enclosure width 31 mm acc. to EN 50047

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Operating mechanisms</b>							
 Roller plunger	<b>Roller plungers, type C acc. to EN 50047</b>						
	Plastic rollers	10	⊕ A	<b>3SE5000-0AD03</b>	1	1 unit	41K
	High-grade steel rollers	10	⊕ B	<b>3SE5000-0AD04</b>	1	1 unit	41K
 With central fixing	<b>Roller plungers with central fixing</b>						
	Plastic rollers	10	⊕ B	<b>3SE5000-0AD10</b>	1	1 unit	41K
	High-grade steel rollers	10	⊕ B	<b>3SE5000-0AD11</b>	1	1 unit	41K
 Roller levers	<b>Roller levers, type E, acc. to EN 50047</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AE10</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE11</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AE12</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE13</b>	1	1 unit	41K
 Angular roller levers	<b>Angular roller levers</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AF10</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF11</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ A	<b>3SE5000-0AF12</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF13</b>	1	1 unit	41K
 Spring rods	<b>Spring rods</b> (for switches with snap-action contacts only)						
	Plunger made of plastic, spring of high-grade steel:	7					
	• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR01</b>	1	1 unit	41K
	• Length 76 mm (spring 23.5 mm, plunger 10 mm)		B	<b>3SE5000-0AR03</b>	1	1 unit	41K
	• Length 242.5 mm (spring 150 mm, plunger 50 mm)		B	<b>3SE5000-0AR04</b>	1	1 unit	41K
	Plunger and spring made of high-grade steel:	7					
• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR02</b>	1	1 unit	41K	
<b>Twist actuators</b>							
 Twist actuator	<b>Twist actuators, plastic (without lever)</b>						
	Switching right and/or left, adjustable		⊕ A	<b>3SE5000-0AK00</b>	1	1 unit	41K
 Twist levers	<b>Levers</b>						
	<b>Twist levers 21 mm, straight, type A acc. to EN 50047</b>						
	Metal lever, plastic roller	19	⊕ A	<b>3SE5000-0AA21</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA22</b>	1	1 unit	41K
	Metal lever, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA23</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA25</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA31</b>	1	1 unit	41K
High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA32</b>	1	1 unit	41K	
 Twist levers 30 mm, straight <sup>1)</sup>	<b>Twist levers 30 mm, straight<sup>1)</sup></b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit	41K
 Twist levers, adjustable length, with grid hole	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit	41K
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA67</b>	1	1 unit	41K
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit	41K
 Twist lever, adjustable length	<b>Twist lever, adjustable length</b>						
	Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit	41K
	Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit	41K
	Metal lever, plastic roller	50	B	<b>3SE5000-0AA57</b>	1	1 unit	41K
	Metal lever, rubber roller	50	B	<b>3SE5000-0AA58</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	B	<b>3SE5000-0AA52</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	B	<b>3SE5000-0AA53</b>	1	1 unit	41K
 Rod actuator	<b>Rod actuator</b>						
	Aluminum rod, length 200 mm	6	B	<b>3SE5000-0AA80</b>	1	1 unit	41K
	Spring rod, length 200 mm	6	B	<b>3SE5000-0AA81</b>	1	1 unit	41K
	Plastic rod, length 200 mm	6	B	<b>3SE5000-0AA82</b>	1	1 unit	41K

⊕ Positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Enclosure width 40 mm acc. to EN 50041

### Selection and ordering data

#### Complete units

2 or 3 contacts · Degree of protection IP66/67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.	Price per PU			

#### Complete units<sup>1)</sup> · Enclosure width 40 mm



Plain plungers

##### Plain plungers

###### With high-grade steel plunger

Slow-action contacts	1 NO + 1 NC --	⊕ B	B	3SE5132-0BB01		1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ B	B	3SE5132-0CB01		1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0KB01		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0LB01		1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ B	B	3SE5132-0PB01		1	1 unit	41K



Rounded plungers

##### Rounded plungers, type B, acc. to EN 50041

###### With plastic plunger

Slow-action contacts	1 NO + 1 NC --	⊕ B	B	3SE5132-0BC03		1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ A	A	3SE5132-0CC03		1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0KC03		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0LC03		1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ B	B	3SE5132-0PC03		1	1 unit	41K



Roller plunger

##### Roller plungers, type C, acc. to EN 50041

###### With plastic roller 13 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	B	3SE5132-0BD05		1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ A	A	3SE5132-0CD05		1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0KD05		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0LD05		1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ B	B	3SE5132-0PD05		1	1 unit	41K



Roller levers

##### Roller levers

###### With metal lever and plastic roller 22 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	B	3SE5132-0BE05		1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ A	A	3SE5132-0CE05		1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0KE05		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0LE05		1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ B	B	3SE5132-0PE05		1	1 unit	41K



Angular roller levers

##### Angular roller levers

###### With metal lever and plastic roller 22 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	B	3SE5132-0BF05		1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ B	B	3SE5132-0CF05		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	B	3SE5132-0LF05		1	1 unit	41K



Spring rods

##### Spring rods

###### Length 142.5 mm, with plastic plunger 50 mm

Snap-action contacts	1 NO + 1 NC --		B	3SE5132-0CR01		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		B	3SE5132-0LR01		1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.

## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Plastic Enclosures

Enclosure width 40 mm acc. to EN 50041

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 40 mm



Twist levers

#### Twist levers, type A acc. to EN 50041

##### With metal lever 27 mm and plastic roller 19 mm

Slow-action contacts	1 NO + 1 NC --		A	<b>3SE5132-0BJ01</b>		1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --		A	<b>3SE5132-0CJ01</b>		1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --		B	<b>3SE5132-0KJ01</b>		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		B	<b>3SE5132-0LJ01</b>		1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --		B	<b>3SE5132-0PJ01</b>		1	1 unit	41K

#### Twist lever, adjustable length

##### With metal lever with grid hole and plastic roller 19 mm

Snap-action contacts	1 NO + 1 NC --		B	<b>3SE5132-0CJ60</b>		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		B	<b>3SE5132-0LJ60</b>		1	1 unit	41K



Twist levers,  
adjustable  
length,  
with grid hole

#### With metal lever and plastic roller 19 mm

Snap-action contacts	1 NO + 1 NC --		A	<b>3SE5132-0CJ50</b>		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		B	<b>3SE5132-0LJ50</b>		1	1 unit	41K



Twist lever,  
adjustable  
length

#### Rod actuators, type D, acc. to EN 50041

##### With aluminum rod, length 200 mm

Snap-action contacts	1 NO + 1 NC --		B	<b>3SE5132-0CJ80</b>		1	1 unit	41K
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##### With plastic rod, length 200 mm

Snap-action contacts	1 NO + 1 NC --		A	<b>3SE5132-0CJ82</b>		1	1 unit	41K
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Rod actuator

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.

#### Note:

If the device you require is not available as a complete unit, see "Modular System", page 12/23.



# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures





Enclosure width 40 mm acc. to EN 50041

### Modular system

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		

### Basic switches · Enclosure width 40 mm

	<b>With M20 × 1.5 connecting thread</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5132-0BA00</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5132-0CA00</b>	1	1 unit	41K
	• Gold-plated contacts						
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5132-0CA00-1AC1</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5132-0KA00</b>	1	1 unit	41K
	<b>With increased corrosion protection<sup>1)</sup></b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5132-0BA00-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5132-0CA00-1CA0</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5132-0KA00-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5132-0LA00-1CA0</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ B	<b>3SE5132-0MA00-1CA0</b>	1	1 unit	41K
	<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5134-0BA00-1AC4</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5134-0CA00-1AC4</b>	1	1 unit	41K
	Slow-action contacts	2 NC --	⊕ B	<b>3SE5134-0KA00-1AE0</b>	1	1 unit	41K
	Snap-action contacts	2 NC --	⊕ B	<b>3SE5134-0LA00-1AE0</b>	1	1 unit	41K
	<b>With 2 LEDs, yellow/green</b>						
	Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ C	<b>3SE5132-1KA00</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 24 V DC	⊕ C	<b>3SE5132-1LA00</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ C	<b>3SE5132-3KA00</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 230 V AC	⊕ C	<b>3SE5132-3LA00</b>	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Use corresponding high-grade steel lever.









Note:

Selection aid, see page 12/14.

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Enclosure width 40 mm acc. to EN 50041

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm		Article No.	Price per PU		
<b>Operating mechanisms</b>						
	<b>Plain plungers</b> High-grade steel plunger	10	⊕ A	<b>3SE5000-0AB01</b>	1	1 unit 41K
Plain plungers	<b>Rounded plungers, type B, acc. to EN 50041</b> Plastic plungers	10	⊕ B	<b>3SE5000-0AC03</b>	1	1 unit 41K
	<b>Roller plungers, type C acc. to EN 50041</b> Plastic plunger, plastic roller	13	⊕ B	<b>3SE5000-0AD05</b>	1	1 unit 41K
Plunger	Plastic plunger, high-grade steel roller	13	⊕ B	<b>3SE5000-0AD06</b>	1	1 unit 41K
	<b>Roller levers</b> Metal lever with plastic roller, plastic base	22	⊕ B	<b>3SE5000-0AE05</b>	1	1 unit 41K
Roller levers	<b>Angular roller levers</b> Metal lever with plastic roller, plastic base	22	⊕ B	<b>3SE5000-0AF05</b>	1	1 unit 41K
	<b>Spring rods</b> (for switches with snap-action contacts only) Plunger made of plastic, spring of high-grade steel:	7				
Spring rods	• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR01</b>	1	1 unit 41K
	• Length 76 mm (spring 23.5 mm, plunger 10 mm)		B	<b>3SE5000-0AR03</b>	1	1 unit 41K
	• Length 242.5 mm (spring 150 mm, plunger 50 mm)		B	<b>3SE5000-0AR04</b>	1	1 unit 41K
	Plunger and spring made of high-grade steel:	7				
	• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR02</b>	1	1 unit 41K
<b>Twist actuators</b>						
	<b>Twist actuators, plastic (without lever)</b> • For twist levers and rod actuators, switching right and/or left, adjustable		⊕ B	<b>3SE5000-0AJ00</b>	1	1 unit 41K
Twist actuator	<b>Levers</b>					
	<b>Twist levers, offset, type A, acc. to EN 50041</b> Metal lever 27 mm, plastic roller	19	⊕ A	<b>3SE5000-0AA01</b>	1	1 unit 41K
Twist levers	Metal lever 27 mm, high-grade steel roller	19	⊕ A	<b>3SE5000-0AA02</b>	1	1 unit 41K
	Metal lever 27 mm, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA03</b>	1	1 unit 41K
	Metal lever 27 mm, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AA04</b>	1	1 unit 41K
	Metal lever 27 mm, plastic roller	30	⊕ B	<b>3SE5000-0AA05</b>	1	1 unit 41K
	Metal lever 27 mm, rubber roller	50	⊕ B	<b>3SE5000-0AA08</b>	1	1 unit 41K
	High-grade steel lever 27 mm, plastic roller	19	⊕ B	<b>3SE5000-0AA11</b>	1	1 unit 41K
	High-grade steel lever 27 mm, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA12</b>	1	1 unit 41K
	Metal lever 35 mm, plastic roller	19	⊕ B	<b>3SE5000-0AA15</b>	1	1 unit 41K
	High-grade steel lever 35 mm, plastic roller	19	⊕ B	<b>3SE5000-0AA16</b>	1	1 unit 41K
	<b>Twist levers 30 mm, straight<sup>1)</sup></b> Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit 41K
Twist lever, adjustable length	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit 41K
	<b>Twist levers, adjustable length, with grid hole</b> Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit 41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit 41K
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit 41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit 41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit 41K
	<b>Twist lever, adjustable length</b> Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit 41K
Rod actuator	Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit 41K
	Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit 41K
	Metal lever, rubber roller	50	B	<b>3SE5000-0AA58</b>	1	1 unit 41K
	High-grade steel lever, plastic roller	19	B	<b>3SE5000-0AA52</b>	1	1 unit 41K
	High-grade steel lever, high-grade steel roller	19	B	<b>3SE5000-0AA53</b>	1	1 unit 41K
	<b>Rod actuators, type D, acc. to EN 50041</b> Aluminum rod, length 200 mm	6	B	<b>3SE5000-0AA80</b>	1	1 unit 41K
	Spring rod, length 200 mm	6	B	<b>3SE5000-0AA81</b>	1	1 unit 41K
	Plastic rod, length 200 mm	6	B	<b>3SE5000-0AA82</b>	1	1 unit 41K

⊕ Positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).



# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Enclosure width 50 mm

### Selection and ordering data

#### Complete units

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry 2 × (M20 × 1.5)

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 50 mm



Rounded plungers

##### Rounded plungers

###### With teflon plunger

Slow-action contacts	1 NO + 1 NC --		⊕ A	3SE5242-0BC05		1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --		⊕ B	3SE5242-0CC05		1	1 unit	41K
Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --		⊕ ▶	3SE5242-0HC05		1	1 unit	41K
Snap-action contacts • Short stroke, integrated <sup>2)</sup>	1 NO + 1 NC --		⊕ B	3SE5242-0FC05		1	1 unit	41K
Snap-action contacts • 2 × 2 mm contact gap	1 NO + 1 NC --		⊕ B	3SE5242-0GC05		1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --		⊕ B	3SE5242-0KC05		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		⊕ B	3SE5242-0LC05		1	1 unit	41K
Slow-action contacts with make-before-break	1 NO + 2 NC --		⊕ A	3SE5242-0MC05		1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --		⊕ A	3SE5242-0PC05		1	1 unit	41K



With increased corrosion protection

###### With increased corrosion protection

Slow-action contacts	1 NO + 1 NC --		⊕ B	3SE5242-0BC05-1CA0		1	1 unit	41K
Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --		⊕ B	3SE5242-0HC05-1CA0		1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --		⊕ B	3SE5242-0KC05-1CA0		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		⊕ B	3SE5242-0LC05-1CA0		1	1 unit	41K
Slow-action contacts with make-before-break	1 NO + 2 NC --		⊕ B	3SE5242-0MC05-1CA0		1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --		⊕ B	3SE5242-0PC05-1CA0		1	1 unit	41K



With 2 LEDs

###### With 2 LEDs, yellow/green

Slow-action contacts	1 NO + 2 NC	24 V DC	⊕ B	3SE5242-1KC05		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC	24 V DC	⊕ B	3SE5242-1LC05		1	1 unit	41K
Slow-action contacts	1 NO + 2 NC	230 V AC	⊕ B	3SE5242-3KC05		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC	230 V AC	⊕ B	3SE5242-3LC05		1	1 unit	41K



Roller plunger

##### Roller plunger

###### With plastic roller 10 mm

Slow-action contacts	1 NO + 1 NC --		⊕ B	3SE5242-0BD03		1	1 unit	41K
Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --		⊕ B	3SE5242-0HD03		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		⊕ B	3SE5242-0LD03		1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

1) Popular versions.

2) Subsequent replacement of contact blocks is not possible.

## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Plastic Enclosures

#### Enclosure width 50 mm

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry 2 × (M20 × 1.5)

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 50 mm



Roller levers

##### Roller levers

###### With metal lever and plastic roller 13 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5242-0BE10</b>	1	1 unit	41K
Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ A	<b>3SE5242-0HE10</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5242-0LE10</b>	1	1 unit	41K

###### With M12 connector socket, 4-pole right (250 V, 4 A)

Snap-action contacts	2 NC --	⊕ B	<b>3SE5244-0LE10-1AE0</b>	1	1 unit	41K
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Twist levers

##### Twist levers

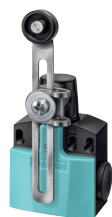
###### With metal lever 21 mm and plastic roller 19 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5242-0BK21</b>	1	1 unit	41K
Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5242-0HK21</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5242-0LK21</b>	1	1 unit	41K

##### Twist lever, adjustable length

###### With metal lever and plastic roller 19 mm

Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	B	<b>3SE5242-0HK50</b>	1	1 unit	41K
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Twist lever,  
adjustable  
length

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.

<sup>2)</sup> Subsequent replacement of contact blocks is not possible.

#### Note:

If the device you require is not available as a complete unit, see "Modular System", page 12/27.

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Enclosure width 50 mm

### Modular system

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry 2 × (M20 × 1.5)

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
				Configurator			
				Article No.	Price per PU		

### Basic switches • Enclosure width 50 mm (with rounded plunger<sup>1)</sup>)



Basic switch

#### With teflon plunger

Slow-action contacts	1 NO + 1 NC --	⊕ A	<b>3SE5242-0BC05</b>	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5242-0CC05</b>	1	1 unit	41K
Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ ▶	<b>3SE5242-0HC05</b>	1	1 unit	41K
Snap-action contacts • Short stroke, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5242-0FC05</b>	1	1 unit	41K
Snap-action contacts • 2 × 2 mm contact gap	1 NO + 1 NC --	⊕ B	<b>3SE5242-0GC05</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5242-0KC05</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5242-0LC05</b>	1	1 unit	41K
Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ A	<b>3SE5242-0MC05</b>	1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ A	<b>3SE5242-0PC05</b>	1	1 unit	41K



With increased corrosion protection

#### With increased corrosion protection<sup>3)</sup>

Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5242-0BC05-1CA0</b>	1	1 unit	41K
Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	⊕ B	<b>3SE5242-0HC05-1CA0</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5242-0KC05-1CA0</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5242-0LC05-1CA0</b>	1	1 unit	41K
Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ B	<b>3SE5242-0MC05-1CA0</b>	1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ B	<b>3SE5242-0PC05-1CA0</b>	1	1 unit	41K



With 2 LEDs

#### With 2 LEDs, yellow/green

Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5242-1KC05</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5242-1LC05</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5242-3KC05</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5242-3LC05</b>	1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positively opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

1) For enclosures with widths of 50 mm, the basic switch is a complete unit with rounded plungers.

2) Subsequent replacement of contact blocks is not possible.

3) Use corresponding high-grade steel lever.

Note:

Selection aid, see page 12/14.

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm					
			Article No.	Price per PU		

### Operating mechanisms



Roller plunger

#### Roller plungers, type C acc. to EN 50047

Plastic rollers	10	⊕ A	<b>3SE5000-0AD03</b>	1	1 unit	41K
High-grade steel rollers	10	⊕ B	<b>3SE5000-0AD04</b>	1	1 unit	41K



With central fixing

#### Roller plungers with central fixing









Plastic rollers	10	⊕ B	<b>3SE5000-0AD10</b>	1	1 unit	41K
High-grade steel rollers	10	⊕ B	<b>3SE5000-0AD11</b>	1	1 unit	41K

⊕ Positively driven actuator, necessary in safety circuits.

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Enclosure width 50 mm

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Operating mechanisms</b>							
	<b>Roller levers, type E, acc. to EN 50047</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AE10</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE11</b>	1	1 unit 41K	
	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AE12</b>	1	1 unit 41K	
	<b>Angular roller levers</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AF10</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF11</b>	1	1 unit 41K	
	High-grade steel lever, plastic roller	13	⊕ A	<b>3SE5000-0AF12</b>	1	1 unit 41K	
	<b>Spring rods</b> (for switches with snap-action contacts only)						
	Plunger made of plastic, spring of high-grade steel:	7					
	• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR01</b>	1	1 unit 41K	
	• Length 76 mm (spring 23.5 mm, plunger 10 mm)		B	<b>3SE5000-0AR03</b>	1	1 unit 41K	
• Length 242.5 mm (spring 150 mm, plunger 50 mm)		B	<b>3SE5000-0AR04</b>	1	1 unit 41K		
Plunger and spring made of high-grade steel:	7						
• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR02</b>	1	1 unit 41K		
<b>Twist actuators</b>							
	<b>Twist actuators, plastic (without lever)</b>						
	Switching right and/or left, adjustable		⊕ A	<b>3SE5000-0AK00</b>	1	1 unit 41K	
<b>Levers</b>							
	<b>Twist levers 21 mm, straight, type A acc. to EN 50047</b>						
	Metal lever, plastic roller	19	⊕ A	<b>3SE5000-0AA21</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA22</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA23</b>	1	1 unit 41K	
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA25</b>	1	1 unit 41K	
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA31</b>	1	1 unit 41K	
	<b>Twist levers 30 mm, straight<sup>1)</sup></b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit 41K	
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit 41K	
	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit 41K	
	<b>Twist levers, adjustable length</b>						
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA67</b>	1	1 unit 41K	
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit 41K	
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit 41K	
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit 41K	
	<b>Twist lever, adjustable length</b>						
Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit 41K		
Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit 41K		
Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit 41K		
Metal lever, plastic roller	50	B	<b>3SE5000-0AA57</b>	1	1 unit 41K		
Metal lever, rubber roller	50	B	<b>3SE5000-0AA58</b>	1	1 unit 41K		
	<b>Rod actuator</b>						
	Aluminum rod, length 200 mm	6	B	<b>3SE5000-0AA80</b>	1	1 unit 41K	
	Spring rod, length 200 mm	6	B	<b>3SE5000-0AA81</b>	1	1 unit 41K	
	Plastic rod, length 200 mm	6	B	<b>3SE5000-0AA82</b>	1	1 unit 41K	

⊕ Positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Ambient temperature down to  $-40\text{ }^{\circ}\text{C}$ 

### Selection and ordering data

#### Complete units

2 or 3 contacts · Degree of protection IP65 or IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

#### Complete units<sup>1)</sup> • Enclosure width 31 mm



Roller plunger

##### Roller plungers, type C, acc. to EN 50047

With plastic roller 10 mm  
With M12 connector socket, 4-pole (250 V, 4 A)

Snap-action contacts      1 NO + 1 NC --      ⊕ B      **3SE5234-0CD03-1AJ1**      1      1 unit      41K

Roller plunger  
with central  
fixing

##### Roller plungers with central fixing

Snap-action contacts      1 NO + 1 NC --      ⊕ B      **3SE5232-0CD10-1AJ0**      1      1 unit      41K



Twist levers

##### Twist levers, type A acc. to EN 50047

With high-grade steel lever 21 mm and plastic roller 19 mm

Snap-action contacts      1 NO + 1 NC --      ⊕ A      **3SE5232-0CK31-1AJ0**      1      1 unit      41K

Twist levers,  
adjustable  
length,  
with grid hole

##### Twist lever, adjustable length

With high-grade steel lever with grid hole  
and plastic roller 19 mm

Snap-action contacts      1 NO + 1 NC --      ⊕ B      **3SE5232-0CK62-1AJ0**      1      1 unit      41K

Snap-action contacts      1 NO + 2 NC --      ⊕ B      **3SE5232-0LK62-1AJ0**      1      1 unit      41K

#### Complete units<sup>1)</sup> • Enclosure width 50 mm

Twist levers,  
adjustable  
length,  
with grid hole

##### Twist levers

With metal lever 21 mm and plastic roller 19 mm

Snap-action contacts, integrated<sup>2)</sup> 1 NO + 1 NC --      ⊕ B      **3SE5242-0HK21-1AJ0**      1      1 unit      41K

##### Twist lever, adjustable length

With high-grade steel lever with grid hole  
and plastic roller 19 mm

Snap-action contacts, integrated<sup>2)</sup> 1 NO + 1 NC --      ⊕ B      **3SE5242-0HK62-1AJ0**      1      1 unit      41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Popular versions.

<sup>2)</sup> Subsequent replacement of contact blocks is not possible.

#### Note:

If the device you require is not available as a complete unit, see "Modular System", page 12/30.










## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Plastic Enclosures


Ambient temperature down to  $-40\text{ °C}$

#### Modular system

2 or 3 contacts · Degree of protection IP65 or IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		
<b>Basic switches • Enclosure width 31 mm (with rounded plunger<sup>1)</sup>)</b>							
	<b>With teflon plunger</b>						
	Snap-action contacts	1 NO + 1 NC --	 B	<b>3SE5232-0CC05-1AJ0</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	 B	<b>3SE5232-0KC05-1AJ0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	 B	<b>3SE5232-0LC05-1AJ0</b>	1	1 unit	41K
Basic switch							
<b>Basic switches • Enclosure width 50 mm (with rounded plunger<sup>1)</sup>)</b>							
	<b>With teflon plunger</b>						
	Slow-action contacts	1 NO + 1 NC --	 B	<b>3SE5242-0BC05-1AJ0</b>	1	1 unit	41K
	Snap-action contacts, integrated <sup>2)</sup>	1 NO + 1 NC --	 B	<b>3SE5242-0HC05-1AJ0</b>	1	1 unit	41K
Basic switch							

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> For enclosures with widths of 31 and 50 mm, the basic switch is a complete unit with rounded plungers.

<sup>2)</sup> Subsequent replacement of contact blocks is not possible.







#### Note:

Selection aid, see page 12/14.

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Plastic Enclosures

Ambient temperature down to  $-40\text{ }^{\circ}\text{C}$ 

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Operating mechanisms</b>							
 Roller plunger	<b>Roller plungers, type C acc. to EN 50047</b>						
	Plastic rollers	10	⊕ B	<b>3SE5000-0AD03-1AJ0</b>	1	1 unit	41K
 Roller levers	<b>Roller levers, type E, acc. to EN 50047</b>						
	Metal lever, plastic roller	13	⊕ B	<b>3SE5000-0AE10-1AJ0</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AE12-1AJ0</b>	1	1 unit	41K
 Angular roller levers	<b>Angular roller levers</b>						
	Metal lever, plastic roller	13	⊕ B	<b>3SE5000-0AF10-1AJ0</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AF12-1AJ0</b>	1	1 unit	41K
<b>Twist actuators</b>							
 Twist actuator	<b>Twist actuators, plastic (without lever)</b>						
	Switching right and/or left, adjustable		⊕ B	<b>3SE5000-0AK00-1AJ0</b>	1	1 unit	41K
<b>Levers</b>							
 Twist levers	<b>Twist levers straight, 21 mm, type A acc. to EN 50047</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA21-1AJ0</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA31-1AJ0</b>	1	1 unit	41K
 Twist lever, adjustable length	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60-1AJ0</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62-1AJ0</b>	1	1 unit	41K

⊕ Positively driven actuator, necessary in safety circuits.



## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Plastic Enclosures

Ambient temperature down to  $-40\text{ }^{\circ}\text{C}$

#### Modular system

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5




Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		

#### Basic switches • Enclosure width 40 mm




Basic switch

##### With M20 × 1.5 connecting thread


Snap-action contacts	1 NO + 1 NC --	 B	<b>3SE5132-0CA00-1AJ0</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	 B	<b>3SE5132-0KA00-1AJ0</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	 B	<b>3SE5132-0LA00-1AJ0</b>	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

Note:

Selection aid, see page 12/14.

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm					
			Article No.	Price per PU		

#### Operating mechanisms



Rounded plungers

##### Rounded plungers, type B, acc. to EN 50041

Plastic plungers	10	 B	<b>3SE5000-0AC03-1AJ0</b>	1	1 unit	41K
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Roller plunger

##### Roller plungers, type C acc. to EN 50041

Plastic plunger, plastic roller	13	 B	<b>3SE5000-0AD05-1AJ0</b>	1	1 unit	41K
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Roller levers

##### Roller levers

Metal lever with plastic roller, plastic base	22	 B	<b>3SE5000-0AE05-1AJ0</b>	1	1 unit	41K
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Twist actuator

##### Twist actuators, plastic (without lever)

• For twist levers and rod actuators, switching right and/or left, adjustable		 B	<b>3SE5000-0AJ00-1AJ0</b>	1	1 unit	41K
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Twist levers

##### Levers

##### Twist levers, type A, acc. to EN 50041


Metal lever, plastic roller	19	 B	<b>3SE5000-0AA01-1AJ0</b>	1	1 unit	41K
High-grade steel lever, plastic roller	19	 B	<b>3SE5000-0AA11-1AJ0</b>	1	1 unit	41K



Twist lever, adjustable length

##### Twist levers, adjustable length, with grid hole

Metal lever, plastic roller	19	 B	<b>3SE5000-0AA60-1AJ0</b>	1	1 unit	41K
High-grade steel lever, plastic roller	19	 B	<b>3SE5000-0AA62-1AJ0</b>	1	1 unit	41K

 Positively driven actuator, necessary in safety circuits.



# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 31 mm acc. to EN 50047






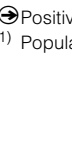
### Selection and ordering data

#### Complete units

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 31 mm

 Rounded plungers	<b>Rounded plungers, type B, acc. to EN 50047</b>								
	<b>With plunger</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ A	<b>3SE5212-0BC05</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ A	<b>3SE5212-0CC05</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ A	<b>3SE5212-0KC05</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ A	<b>3SE5212-0LC05</b>		1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --		⊕ A	<b>3SE5212-0MC05</b>		1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --		⊕ A	<b>3SE5212-0PC05</b>		1	1 unit	41K	
 With increased corrosion protection	<b>With increased corrosion protection</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5212-0BC05-1CA0</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5212-0CC05-1CA0</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5212-0KC05-1CA0</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5212-0LC05-1CA0</b>		1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --		⊕ B	<b>3SE5212-0MC05-1CA0</b>		1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --		⊕ B	<b>3SE5212-0PC05-1CA0</b>		1	1 unit	41K
 With 2 LEDs	<b>With M12 connector socket, 5-pole (125 V, 4 A)</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5214-0BC05-1AC5</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5214-0CC05-1AC5</b>		1	1 unit	41K
	Slow-action contacts	2 NC --		⊕ B	<b>3SE5214-0KC05-1AE1</b>		1	1 unit	41K
	Snap-action contacts	2 NC --		⊕ B	<b>3SE5214-0LC05-1AE1</b>		1	1 unit	41K
	<b>With 2 LEDs, yellow/green</b>								
	Slow-action contacts	1 NO + 2 NC	24 V DC	⊕ B	<b>3SE5212-1KC05</b>		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC	24 V DC	⊕ A	<b>3SE5212-1LC05</b>		1	1 unit	41K	
Slow-action contacts	1 NO + 2 NC	230 V AC	⊕ B	<b>3SE5212-3KC05</b>		1	1 unit	41K	
Snap-action contacts	1 NO + 2 NC	230 V AC	⊕ B	<b>3SE5212-3LC05</b>		1	1 unit	41K	
 With 2 LEDs and 2 LEDs	<b>With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs</b>								
	Slow-action contacts	1 NO + 1 NC	24 V DC	⊕ B	<b>3SE5214-1BC05-1AF3</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC	24 V DC	⊕ B	<b>3SE5214-1CC05-1AF3</b>		1	1 unit	41K
 Plain plungers	<b>Plain plungers</b>								
	<b>With high-grade steel plunger</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5212-0BB01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5212-0CB01</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5212-0KB01</b>		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5212-0LB01</b>		1	1 unit	41K	
 Roller plunger	<b>Roller plungers, type C, acc. to EN 50047</b>								
	<b>With plastic roller 10 mm</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ A	<b>3SE5212-0BD03</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5212-0CD03</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ A	<b>3SE5212-0KD03</b>		1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5212-0LD03</b>		1	1 unit	41K	

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.


<sup>1)</sup> Popular versions.

## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Metal Enclosures

Enclosure width 31 mm acc. to EN 50047

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
				<input type="checkbox"/>			
							
				Article No.	Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 31 mm



Roller plungers with central fixing

##### Roller plungers with central fixing With plastic roller 10 mm

Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0KD10	1	1 unit	41K
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Roller levers

##### Roller levers, type E acc. to EN 50047 With metal lever and plastic roller 13 mm

Slow-action contacts	1 NO + 1 NC --	⊕ A	3SE5212-0BE10	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5212-0CE10	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0KE10	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0LE10	1	1 unit	41K



Angular roller levers

##### Angular roller levers

##### With metal lever and plastic roller 13 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5212-0BF10	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5212-0CF10	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0KF10	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0LF10	1	1 unit	41K



Twist levers

##### Twist levers, type A acc. to EN 50047

##### With metal lever 21 mm and plastic roller 19 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5212-0BK21	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5212-0CK21	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0KK21	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0LK21	1	1 unit	41K



Twist levers, adjustable length, with grid hole

##### Twist lever, adjustable length

##### With metal lever with grid hole and plastic roller 19 mm

Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5212-0CK60	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0KK60	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5212-0LK60	1	1 unit	41K

##### With metal lever and plastic roller 19 mm

Slow-action contacts	1 NO + 1 NC --	A	3SE5212-0BK50	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	B	3SE5212-0CK50	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	B	3SE5212-0LK50	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.

#### Note:

If the device you require is not available as a complete unit, see "Modular System", page 12/35.



# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures






Enclosure width 31 mm acc. to EN 50047

### Modular system


2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		

### Basic switches • Enclosure width 31 mm (with rounded plunger<sup>1)</sup>)

 Basic switch	<b>With plunger</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ A	<b>3SE5212-0BC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ A	<b>3SE5212-0CC05</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ A	<b>3SE5212-0KC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ A	<b>3SE5212-0LC05</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ A	<b>3SE5212-0MC05</b>	1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ A	<b>3SE5212-0PC05</b>	1	1 unit	41K	
 With increased corrosion protection	<b>With increased corrosion protection<sup>2)</sup></b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5212-0BC05-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5212-0CC05-1CA0</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5212-0KC05-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5212-0LC05-1CA0</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ B	<b>3SE5212-0MC05-1CA0</b>	1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ B	<b>3SE5212-0PC05-1CA0</b>	1	1 unit	41K	
 With M12 plug	<b>With M12 connector socket, 5-pole (125 V, 4 A)</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5214-0BC05-1AC5</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5214-0CC05-1AC5</b>	1	1 unit	41K
	Slow-action contacts	2 NC --	⊕ B	<b>3SE5214-0KC05-1AE1</b>	1	1 unit	41K
	Snap-action contacts	2 NC --	⊕ B	<b>3SE5214-0LC05-1AE1</b>	1	1 unit	41K
 With 2 LEDs	<b>With 2 LEDs, yellow/green</b>						
	Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5212-1KC05</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 24 V DC	⊕ A	<b>3SE5212-1LC05</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5212-3KC05</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5212-3LC05</b>	1	1 unit	41K	
 With M12 plug and 2 LEDs	<b>With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs</b>						
	Slow-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5214-1BC05-1AF3</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5214-1CC05-1AF3</b>	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).


 Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> For enclosures with widths of 31 mm, the basic switch is a complete unit with rounded plungers.



<sup>2)</sup> Use corresponding high-grade steel lever.


Note:

Selection aid, see page 12/14.

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm					
			Article No.	Price per PU		

### Operating mechanisms

 Plain plungers	<b>Plain plungers</b>						
	High-grade steel plunger	10	⊕ A	<b>3SE5000-0AB01</b>	1	1 unit	41K
 Roller plunger	<b>Roller plungers, type C acc. to EN 50047</b>						
	Plastic rollers	10	⊕ A	<b>3SE5000-0AD03</b>	1	1 unit	41K
	High-grade steel rollers	10	⊕ B	<b>3SE5000-0AD04</b>	1	1 unit	41K









 Positively driven actuator, necessary in safety circuits.

\* You can order this quantity or a multiple thereof. Illustrations are approximate

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 31 mm acc. to EN 50047

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Operating mechanisms</b>							
	<b>Roller plungers with central fixing</b>						
	Plastic rollers	10	⊕ B	<b>3SE5000-0AD10</b>	1	1 unit	41K
	High-grade steel rollers	10	⊕ B	<b>3SE5000-0AD11</b>	1	1 unit	41K
With central fixing							
	<b>Roller levers, type E, acc. to EN 50047</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AE10</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE11</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AE12</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE13</b>	1	1 unit	41K
Roller levers							
	<b>Angular roller levers</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AF10</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF11</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ A	<b>3SE5000-0AF12</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF13</b>	1	1 unit	41K
Ang. roller levers							
	<b>Spring rods (for switches with snap-action contacts only)</b>						
	Plunger made of plastic, spring of high-grade steel:						
	• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR01</b>	1	1 unit	41K
	• Length 76 mm (spring 23.5 mm, plunger 10 mm)		B	<b>3SE5000-0AR03</b>	1	1 unit	41K
	• Length 242.5 mm (spring 150 mm, plunger 50 mm)		B	<b>3SE5000-0AR04</b>	1	1 unit	41K
	Plunger and spring made of high-grade steel:						
	• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR02</b>	1	1 unit	41K
Spring rods							
<b>Twist actuators</b>							
	<b>Twist actuators, plastic (without lever)</b>						
	Switching right and/or left, adjustable		⊕ A	<b>3SE5000-0AK00</b>	1	1 unit	41K
Twist actuator							
	<b>Levers</b>						
	<b>Twist levers, straight, type A, acc. to EN 50047</b>						
	Metal lever 21 mm, plastic roller	19	⊕ A	<b>3SE5000-0AA21</b>	1	1 unit	41K
	Metal lever 21 mm, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA22</b>	1	1 unit	41K
	Metal lever 21 mm, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA23</b>	1	1 unit	41K
	Metal lever 21 mm, plastic roller	30	⊕ B	<b>3SE5000-0AA25</b>	1	1 unit	41K
	High-grade steel lever 21 mm, plastic roller	19	⊕ B	<b>3SE5000-0AA31</b>	1	1 unit	41K
High-grade steel lever 21 mm, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA32</b>	1	1 unit	41K	
Twist levers							
	<b>Twist levers 30 mm, straight<sup>1)</sup></b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit	41K
	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit	41K
Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA67</b>	1	1 unit	41K	
Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit	41K	
High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit	41K	
High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit	41K	
Twist lever, adjustable length							
	<b>Twist lever, adjustable length</b>						
	Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit	41K
	Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit	41K
	Metal lever, plastic roller	50	B	<b>3SE5000-0AA57</b>	1	1 unit	41K
	Metal lever, rubber roller	50	B	<b>3SE5000-0AA58</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	B	<b>3SE5000-0AA52</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	B	<b>3SE5000-0AA53</b>	1	1 unit	41K
	<b>Rod actuators, type D, acc. to EN 50041</b>						
	Aluminum rod, length 200 mm	6	B	<b>3SE5000-0AA80</b>	1	1 unit	41K
Spring rod, length 200 mm	6	B	<b>3SE5000-0AA81</b>	1	1 unit	41K	
Plastic rod, length 200 mm	6	B	<b>3SE5000-0AA82</b>	1	1 unit	41K	
Plastic rod, length 330 mm	6	B	<b>3SE5000-0AA83</b>	1	1 unit	41K	
Rod actuator							

⊕ Positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 40 mm acc. to EN 50041








### Selection and ordering data

#### Complete units

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 40 mm

	<b>Plain plungers</b>								
	<b>With high-grade steel plunger</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ A	<b>3SE5112-0BB01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ A	<b>3SE5112-0CB01</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0KB01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0LB01</b>		1	1 unit	41K
	<b>Rounded plungers, type B, acc. to EN 50041</b>								
	<b>With high-grade steel plungers, with 3 mm overtravel</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5112-0BC02</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ ▶	<b>3SE5112-0CC02</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0KC02</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0LC02</b>		1	1 unit	41K
	<b>Roller plungers, type C, acc. to EN 50041</b>								
	<b>With high-grade steel roller 13 mm, with 3 mm overtravel</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5112-0BD02</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ ▶	<b>3SE5112-0CD02</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0KD02</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0LD02</b>		1	1 unit	41K
	<b>With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs</b>								
	Snap-action contacts	1 NO + 1 NC	24 V DC	⊕ B	<b>3SE5114-1CD02-1AF3</b>		1	1 unit	41K
	<b>Roller levers</b>								
	<b>With metal lever and plastic roller 22 mm</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5112-0BE01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ ▶	<b>3SE5112-0CE01</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0KE01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0LE01</b>		1	1 unit	41K
	<b>Angular roller levers</b>								
	<b>With metal lever and plastic roller 22 mm</b>								
	Slow-action contacts	1 NO + 1 NC --		⊕ B	<b>3SE5112-0BF01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --		⊕ A	<b>3SE5112-0CF01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --		⊕ B	<b>3SE5112-0LF01</b>		1	1 unit	41K
	<b>Spring rods</b>								
	<b>Length 142.5 mm, with plastic plunger 50 mm</b>								
	Snap-action contacts	1 NO + 1 NC --		▶	<b>3SE5112-0CR01</b>		1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.


\* You can order this quantity or a multiple thereof.  
Illustrations are approximate

## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Metal Enclosures

Enclosure width 40 mm acc. to EN 50041

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
				<input type="checkbox"/>			
							
				Article No.	Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 40 mm



Twist levers

#### Twist levers, type A acc. to EN 50041

##### With metal lever 27 mm and plastic roller 19 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5112-OBH01	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ ▶	3SE5112-0CH01	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5112-0KH01	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5112-0LH01	1	1 unit	41K

##### With M12 connector socket, 5-pole (125 V, 4 A)

Snap-action contacts	1 NO + 1 NC --	⊕ A	3SE5114-0CH01-1AC5	1	1 unit	41K
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##### With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs

Snap-action contacts	1 NO + 1 NC 24 V DC	⊕ B	3SE5114-1CH01-1AF3	1	1 unit	41K
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##### With metal lever 27 mm and high-grade steel roller 19 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5112-OBH02	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ A	3SE5112-0CH02	1	1 unit	41K

##### With M12 connector socket, 5-pole (125 V, 4 A), and 2 LEDs

Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5114-1CH02-1AF3	1	1 unit	41K
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##### With metal lever 30 mm and plastic roller 19 mm

Snap-action contacts	1 NO + 1 NC --	⊕ ▶	3SE5112-0CH24	1	1 unit	41K
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#### Twist lever, adjustable length

##### With metal lever with grid hole and plastic roller 19 mm

Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5112-OBH60	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ ▶	3SE5112-0CH60	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5112-0LH60	1	1 unit	41K

Twist levers, adjustable length, with grid hole

##### With metal lever and plastic roller 19 mm

Slow-action contacts	1 NO + 1 NC --	B	3SE5112-OBH50	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	▶	3SE5112-0CH50	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	B	3SE5112-0LH50	1	1 unit	41K

##### With M12 connector socket, 8-pole (30 V, 2 A) and 2 LEDs

Snap-action contacts	1 NO + 2 NC 24 V DC	B	3SE5114-1LH50-1AD4	1	1 unit	41K
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##### With metal lever and high-grade steel roller 19 mm

Snap-action contacts	1 NO + 1 NC --	B	3SE5112-0CH51	1	1 unit	41K
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Twist lever, adjustable length

#### Fork levers, latching

##### With metal lever and 2 plastic rollers 19 mm

Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5112-0CT11	1	1 unit	41K
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Fork levers

#### Rod actuators, type D, acc. to EN 50041

##### With aluminum rod, length 200 mm

Snap-action contacts	1 NO + 1 NC --	▶	3SE5112-0CH80	1	1 unit	41K
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##### With plastic rod, length 200 mm

Snap-action contacts	1 NO + 1 NC --	B	3SE5112-0CH82	1	1 unit	41K
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Rod actuator

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.

#### Note:

If the device you require is not available as a complete unit, see "Modular System", page 12/39.

\* You can order this quantity or a multiple thereof. Illustrations are approximate










# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures


Enclosure width 40 mm acc. to EN 50041

### Modular system

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		
<b>Basic switches • Enclosure width 40 mm</b>							
	<b>With M20 × 1.5 connecting thread</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5112-0BA00</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ A	<b>3SE5112-0CA00</b>	1	1 unit	41K
	• Gold-plated contacts		⊕ B	<b>3SE5112-0CA00-1AC1</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ A	<b>3SE5112-0KA00</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ A	<b>3SE5112-0LA00</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ A	<b>3SE5112-0MA00</b>	1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ A	<b>3SE5112-0PA00</b>	1	1 unit	41K
	<b>With increased corrosion protection<sup>1)</sup></b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5112-0BA00-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5112-0CA00-1CA0</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5112-0KA00-1CA0</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5112-0LA00-1CA0</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ B	<b>3SE5112-0MA00-1CA0</b>	1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ B	<b>3SE5112-0PA00-1CA0</b>	1	1 unit	41K
	<b>With M12 connector socket, 5-pole (125 V, 4 A)</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5114-0BA00-1AC5</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5114-0CA00-1AC5</b>	1	1 unit	41K
	Slow-action contacts	2 NC --	⊕ B	<b>3SE5114-0KA00-1AE1</b>	1	1 unit	41K
	Snap-action contacts	2 NC --	⊕ B	<b>3SE5114-0LA00-1AE1</b>	1	1 unit	41K
	<b>With connector socket, 6-pole + PE (250 V, 10 A)</b>						
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5115-0KA00-1AD1</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5115-0LA00-1AD1</b>	1	1 unit	41K
	<b>With connector socket, 6-pole + PE (250 V, 10 A) and quick-release device</b>						
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5115-0CA00-1AD0</b>	1	1 unit	41K
	<b>With 2 LEDs, yellow/green</b>						
	Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5112-1KA00</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5112-1LA00</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5112-3KA00</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5112-3LA00</b>	1	1 unit	41K
	<b>With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs</b>						
	Slow-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5114-1BA00-1AF3</b>	1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5114-1CA00-1AF3</b>	1	1 unit	41K
	<b>With M12 connector socket, 8-pole (30 V, 2 A) and 2 LEDs</b>						
	Snap-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5114-1LA00-1AD4</b>	1	1 unit	41K
		<b>With connector socket, 6-pole + PE (10 A), and 2 LEDs</b>					
Slow-action contacts		1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5115-1BA00-1AF2</b>	1	1 unit	41K
Snap-action contacts		1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5115-1CA00-1AF2</b>	1	1 unit	41K
Snap-action contacts		2 NC 24 V DC	⊕ B	<b>3SE5115-1LA00-1AD2</b>	1	1 unit	41K
<b>With plug, 6-pole PE, and 2 LEDs</b>							
Slow-action contacts		1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5115-1BA00-1AF2</b>	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Use corresponding high-grade steel lever.










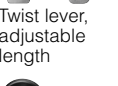



Note:

Selection aid, see page 12/14.

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 40 mm acc. to EN 50041

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Operating mechanisms</b>							
	<b>Plain plungers</b>						
	High-grade steel plunger	10	⊕ A	<b>3SE5000-0AB01</b>	1	1 unit	41K
	<b>Rounded plungers, type B, acc. to EN 50041</b>						
	High-grade steel plungers, with 3 mm overtravel	10	⊕ B	<b>3SE5000-0AC02</b>	1	1 unit	41K
	<b>Roller plungers, type C acc. to EN 50041</b>						
	High-grade steel roller, with 3 mm overtravel	13	⊕ B	<b>3SE5000-0AD02</b>	1	1 unit	41K
	<b>Roller levers</b>						
	Metal lever, plastic roller	22	⊕ A	<b>3SE5000-0AE01</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AE02</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	22	⊕ B	<b>3SE5000-0AE03</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AE04</b>	1	1 unit	41K
	<b>Angular roller levers</b>						
	Metal lever, plastic roller	22	⊕ A	<b>3SE5000-0AF01</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AF02</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	22	⊕ B	<b>3SE5000-0AF03</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AF04</b>	1	1 unit	41K
	<b>Spring rods</b> (for switches with snap-action contacts only)						
	Plunger made of plastic, spring of high-grade steel:	7					
	• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR01</b>	1	1 unit	41K
	• Length 76 mm (spring 23.5 mm, plunger 10 mm)		B	<b>3SE5000-0AR03</b>	1	1 unit	41K
	• Length 242.5 mm (spring 150 mm, plunger 50 mm)		B	<b>3SE5000-0AR04</b>	1	1 unit	41K
Plunger and spring made of high-grade steel:	7						
• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR02</b>	1	1 unit	41K	
<b>Twist actuators</b>							
	<b>Twist actuators, metal (without lever)</b>						
	• For twist levers and rod actuators, switching right and/or left, adjustable		⊕ A	<b>3SE5000-0AH00</b>	1	1 unit	41K
	• For fork levers, latching						
			⊕ B	<b>3SE5000-0AT10</b>	1	1 unit	41K
	<b>Levers</b>						
	<b>Twist levers, offset, type A, acc. to EN 50041</b>						
	Metal lever 27 mm, plastic roller	19	⊕ A	<b>3SE5000-0AA01</b>	1	1 unit	41K
	Metal lever 27 mm, high-grade steel roller	19	⊕ A	<b>3SE5000-0AA02</b>	1	1 unit	41K
	Metal lever 27 mm, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA03</b>	1	1 unit	41K
	Metal lever 27 mm, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AA04</b>	1	1 unit	41K
	Metal lever 27 mm, plastic roller	30	⊕ B	<b>3SE5000-0AA05</b>	1	1 unit	41K
	Metal lever 27 mm, rubber roller	50	⊕ B	<b>3SE5000-0AA08</b>	1	1 unit	41K
	High-grade steel lever 27 mm, plastic roller	19	⊕ B	<b>3SE5000-0AA11</b>	1	1 unit	41K
	High-grade steel lever 27 mm, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA12</b>	1	1 unit	41K
	Metal lever 35 mm, plastic roller	19	⊕ B	<b>3SE5000-0AA15</b>	1	1 unit	41K
	High-grade steel lever 35 mm, plastic roller	19	⊕ B	<b>3SE5000-0AA16</b>	1	1 unit	41K
	<b>Twist levers 30 mm, straight<sup>1)</sup></b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit	41K
	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit	41K
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit	41K
	<b>Twist lever, adjustable length</b>						
	Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit	41K
	Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit	41K
	Metal lever, rubber roller	50	B	<b>3SE5000-0AA58</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	B	<b>3SE5000-0AA52</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	B	<b>3SE5000-0AA53</b>	1	1 unit	41K
	<b>Fork levers</b> (for switches with snap-action contacts only)						
	2 metal levers, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AT01</b>	1	1 unit	41K
2 metal levers, 2 high-grade steel rollers	19	⊕ B	<b>3SE5000-0AT02</b>	1	1 unit	41K	
2 high-grade steel levers, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AT03</b>	1	1 unit	41K	
	<b>Rod actuators, type D, acc. to EN 50041</b>						
	Aluminum rod, length 200 mm	6	B	<b>3SE5000-0AA80</b>	1	1 unit	41K
	Spring rod, length 200 mm	6	B	<b>3SE5000-0AA81</b>	1	1 unit	41K
	Plastic rod, length 200 mm	6	B	<b>3SE5000-0AA82</b>	1	1 unit	41K

⊕ Positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).



# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 56 mm






### Selection and ordering data

#### Complete units

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry 3 × (M20 × 1.5)

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 56 mm

	<b>Plain plungers</b>							
	<b>With high-grade steel plunger</b>							
	Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5122-0BB01		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5122-0CB01		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5122-0KB01		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5122-0LB01		1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ B	3SE5122-0PB01		1	1 unit	41K
	<b>Rounded plungers</b>							
	<b>With high-grade steel plungers, with 3 mm overtravel</b>							
	Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5122-0BC02		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ ▶	3SE5122-0CC02		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5122-0KC02		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5122-0LC02		1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ B	3SE5122-0PC02		1	1 unit	41K
	<b>Roller plungers</b>							
	<b>With high-grade steel roller 13 mm, with 3 mm overtravel</b>							
	Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5122-0BD02		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ A	3SE5122-0CD02		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5122-0KD02		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5122-0LD02		1	1 unit	41K
	<b>Roller levers</b>							
	<b>With metal lever and plastic roller 22 mm</b>							
	Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5122-0BE01		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ A	3SE5122-0CE01		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	3SE5122-0KE01		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	3SE5122-0LE01		1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ B	3SE5122-0PE01		1	1 unit	41K
	<b>With metal lever and high-grade steel roller 22 mm</b>							
	Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5122-0CE02		1	1 unit	41K
	<b>Angular roller levers</b>							
	<b>With metal lever and plastic roller 22 mm</b>							
	Slow-action contacts	1 NO + 1 NC --	⊕ B	3SE5122-0BF01		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	3SE5122-0CF01		1	1 unit	41K
	Slow-action contacts	2 NO + 1 NC --	⊕ B	3SE5122-0PF01		1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.

## SIRIUS 3SE5 Mechanical Position Switches






### 3SE5, Metal Enclosures

#### Enclosure width 56 mm

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry 3 × (M20 × 1.5)

Version	Contacts	LEDs	DT	Complete units	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				Configurator				
				Article No.		Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 56 mm

	<b>Spring rods</b>							
	<b>Length 142.5 mm, with plastic plunger 50 mm</b>							
Spring rod	Snap-action contacts	1 NO + 1 NC --	B	<b>3SE5122-0CR01</b>		1	1 unit	41K
	<b>Twist levers</b>							
	<b>With metal lever 27 mm and plastic roller 19 mm</b>							
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5122-0BH01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ A	<b>3SE5122-0CH01</b>		1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0KH01</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0LH01</b>		1	1 unit	41K
Twist lever	Slow-action contacts	2 NO + 1 NC --	⊕ B	<b>3SE5122-0PH01</b>		1	1 unit	41K
	<b>With metal lever 27 mm and high-grade steel roller 19 mm</b>							
Twist lever, adjustable length, with grid hole	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5122-0CH02</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0LH02</b>		1	1 unit	41K
	<b>Twist lever, adjustable length</b>							
	<b>With metal lever with grid hole and plastic roller 19 mm</b>							
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5122-0BH60</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5122-0CH60</b>		1	1 unit	41K
Twist lever, adjustable length, with grid hole	Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0LH60</b>		1	1 unit	41K
	<b>With metal lever and plastic roller 19 mm</b>							
	Slow-action contacts	1 NO + 1 NC --	B	<b>3SE5122-0BH50</b>		1	1 unit	41K
Twist lever, adjustable length, with grid hole	Snap-action contacts	1 NO + 1 NC --	A	<b>3SE5122-0CH50</b>		1	1 unit	41K
	Snap-action contacts	1 NO + 2 NC --	B	<b>3SE5122-0LH50</b>		1	1 unit	41K
	<b>Fork levers, latching</b>							
	<b>With metal lever and 2 plastic rollers 19 mm</b>							
	Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5122-0CT11</b>		1	1 unit	41K
Fork levers								
	<b>Rod actuator</b>							
	<b>With aluminum rod, length 200 mm</b>							
	Snap-action contacts	1 NO + 1 NC --	B	<b>3SE5122-0CH80</b>		1	1 unit	41K
Rod actuator	<b>With plastic rod, length 200 mm</b>							
	Snap-action contacts	1 NO + 1 NC --	B	<b>3SE5122-0CH82</b>		1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.

#### Note:

If the device you require is not available as a complete unit, see "Modular System", page 12/43.

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 56 mm

### Modular system

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry 3 × (M20 × 1.5)

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
				Configurator			
				Article No.	Price per PU		

### Basic switches • Enclosure width 56 mm



Basic switch

#### With 3 x M20 x 1.5 connecting thread

Slow-action contacts	1 NO + 1 NC --	⊕ A	<b>3SE5122-0BA00</b>	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ A	<b>3SE5122-0CA00</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0KA00</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ A	<b>3SE5122-0LA00</b>	1	1 unit	41K
Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ A	<b>3SE5122-0MA00</b>	1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ A	<b>3SE5122-0PA00</b>	1	1 unit	41K



With increased corrosion protection

#### With increased corrosion protection<sup>1)</sup>

Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5122-0BA00-1CA0</b>	1	1 unit	41K
Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5122-0CA00-1CA0</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0KA00-1CA0</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0LA00-1CA0</b>	1	1 unit	41K
Slow-action contacts with make-before-break	1 NO + 2 NC --	⊕ B	<b>3SE5122-0MA00-1CA0</b>	1	1 unit	41K
Slow-action contacts	2 NO + 1 NC --	⊕ B	<b>3SE5122-0PA00-1CA0</b>	1	1 unit	41K



With 2 LEDs

#### With 2 LEDs, yellow/green

Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5122-1KA00</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5122-1LA00</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5122-3KA00</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5122-3LA00</b>	1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Use corresponding high-grade steel lever.

Note:

Selection aid, see page 12/14.

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm					
			Article No.	Price per PU		

### Operating mechanisms



Rounded plunger, roller plunger

#### Plain plungers

High-grade steel plungers	10	⊕ A	<b>3SE5000-0AB01</b>	1	1 unit	41K
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#### Rounded plungers, type B, acc. to EN 50041

High-grade steel plungers, with 3 mm overtravel	10	⊕ B	<b>3SE5000-0AC02</b>	1	1 unit	41K
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#### Roller plungers, type C acc. to EN 50041

High-grade steel roller, with 3 mm overtravel	13	⊕ B	<b>3SE5000-0AD02</b>	1	1 unit	41K
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Roller levers

#### Roller levers

Metal lever, plastic roller	22	⊕ A	<b>3SE5000-0AE01</b>	1	1 unit	41K
Metal lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AE02</b>	1	1 unit	41K
High-grade steel lever, plastic roller	22	⊕ B	<b>3SE5000-0AE03</b>	1	1 unit	41K
High-grade steel lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AE04</b>	1	1 unit	41K



Angular roller lever

#### Angular roller levers

Metal lever, plastic roller	22	⊕ A	<b>3SE5000-0AF01</b>	1	1 unit	41K
Metal lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AF02</b>	1	1 unit	41K
High-grade steel lever, plastic roller	22	⊕ B	<b>3SE5000-0AF03</b>	1	1 unit	41K
High-grade steel lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AF04</b>	1	1 unit	41K



Spring rod

#### Spring rods (for switches with snap-action contacts only)







Plunger made of plastic, spring of high-grade steel:	7					
• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR01</b>	1	1 unit	41K
• Length 76 mm (spring 23.5 mm, plunger 10 mm)		B	<b>3SE5000-0AR03</b>	1	1 unit	41K
• Length 242.5 mm (spring 150 mm, plunger 50 mm)		B	<b>3SE5000-0AR04</b>	1	1 unit	41K
Plunger and spring made of high-grade steel:	7					
• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR02</b>	1	1 unit	41K

\* You can order this quantity or a multiple thereof. Illustrations are approximate

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 56 mm

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Twist actuators</b>							
	<b>Twist actuators, metal (without lever)</b>						
	<ul style="list-style-type: none"> <li>For twist levers and rod actuators, switching right and/or left, adjustable</li> <li>For fork levers, latching</li> </ul>	<ul style="list-style-type: none"> <li>⊕ A</li> <li>⊕ B</li> </ul>	<ul style="list-style-type: none"> <li><b>3SE5000-0AH00</b></li> <li><b>3SE5000-0AT10</b></li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> </ul>	<ul style="list-style-type: none"> <li>1 unit</li> <li>1 unit</li> </ul>	<ul style="list-style-type: none"> <li>41K</li> <li>41K</li> </ul>	
<b>Levers</b>							
	<b>Twist levers 27 mm, offset, type A, acc. to EN 50041</b>						
	Metal lever, plastic roller	19	⊕ A	<b>3SE5000-0AA01</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ A	<b>3SE5000-0AA02</b>	1	1 unit	41K
	Metal lever, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA03</b>	1	1 unit	41K
	Metal lever, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AA04</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA05</b>	1	1 unit	41K
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA07</b>	1	1 unit	41K
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA08</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA11</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA12</b>	1	1 unit	41K
	<b>Twist levers 35 mm, offset</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA15</b>	1	1 unit	41K
High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA16</b>	1	1 unit	41K	
<b>Twist levers 30 mm, straight<sup>1)</sup></b>							
Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit	41K	
Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit	41K	
	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit	41K
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA67</b>	1	1 unit	41K
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit	41K
	<b>Twist lever, adjustable length</b>						
	Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit	41K
Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit	41K	
Metal lever, plastic roller	50	B	<b>3SE5000-0AA57</b>	1	1 unit	41K	
Metal lever, rubber roller	50	B	<b>3SE5000-0AA58</b>	1	1 unit	41K	
High-grade steel lever, plastic roller	19	B	<b>3SE5000-0AA52</b>	1	1 unit	41K	
High-grade steel lever, high-grade steel roller	19	B	<b>3SE5000-0AA53</b>	1	1 unit	41K	
	<b>Twist lever, adjustable length</b>						
	Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit	41K
	Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit	41K
	Metal lever, plastic roller	50	B	<b>3SE5000-0AA57</b>	1	1 unit	41K
	<b>Fork levers (for switches with snap-action contacts only)</b>						
	2 metal levers, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AT01</b>	1	1 unit	41K
	2 metal levers, 2 high-grade steel rollers	19	⊕ B	<b>3SE5000-0AT02</b>	1	1 unit	41K
	2 high-grade steel levers, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AT03</b>	1	1 unit	41K
	2 high-grade steel levers, 2 high-grade steel rollers	19	⊕ B	<b>3SE5000-0AT04</b>	1	1 unit	41K
	<b>Rod actuators, type D, acc. to EN 50041</b>						
	Aluminum rod, length 200 mm	6	B	<b>3SE5000-0AA80</b>	1	1 unit	41K
	Spring rod, length 200 mm	6	B	<b>3SE5000-0AA81</b>	1	1 unit	41K
	Plastic rod, length 200 mm	6	B	<b>3SE5000-0AA82</b>	1	1 unit	41K

⊕ Positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 56 mm, XL

### Selection and ordering data

#### Complete units

4 or 5 contacts · Degree of protection IP66/IP67 · Cable entry 3 × (M20 × 1.5)

Version	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
				Article No.	Price per PU		

#### Complete units<sup>1)</sup> · Enclosure width 56 mm, XL

	<b>Plain plungers</b>						
	<b>With high-grade steel plunger</b>						
	Snap-action contacts	2 × (1 NO + 1 NC) --	⊕ B	<b>3SE5162-0CB01</b>	1	1 unit	41K
	<b>Rounded plungers</b>						
	<b>With high-grade steel plungers, with 3 mm overtravel</b>						
	Slow-action contacts	1 NO + 1 NC and --	⊕ B	<b>3SE5162-0EC02</b>	1	1 unit	41K
	Slow-action contacts with make-before-break	1 NO + 2 NC					
	2 mm travel difference						
	<b>Roller plungers</b>						
	<b>With high-grade steel roller 13 mm, with 3 mm overtravel</b>						
	Slow-action contacts	2 × (1 NO + 1 NC) --	⊕ B	<b>3SE5162-0BD02</b>	1	1 unit	41K
	Snap-action contacts	2 × (1 NO + 1 NC) --	⊕ A	<b>3SE5162-0CD02</b>	1	1 unit	41K
	<b>Roller levers</b>						
	<b>With metal lever and plastic roller 22 mm</b>						
	Slow-action contacts	2 × (1 NO + 1 NC) --	⊕ B	<b>3SE5162-0BE01</b>	1	1 unit	41K
	Snap-action contacts	2 × (1 NO + 1 NC) --	⊕ A	<b>3SE5162-0CE01</b>	1	1 unit	41K
	<b>With metal lever and high-grade steel roller 22 mm</b>						
	Snap-action contacts	2 × (1 NO + 1 NC) --	⊕ B	<b>3SE5162-0CE02</b>	1	1 unit	41K
	<b>Angular roller levers</b>						
	<b>With metal lever and plastic roller 22 mm</b>						
	Snap-action contacts	2 × (1 NO + 1 NC) --	⊕ B	<b>3SE5162-0CF01</b>	1	1 unit	41K
	<b>Twist levers</b>						
	<b>With metal lever 27 mm and plastic roller 19 mm</b>						
	Snap-action contacts	2 × (1 NO + 1 NC) --	⊕ A	<b>3SE5162-0CH01</b>	1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Popular versions.

#### Note:

If the device you require is not available as a complete unit, see "Modular System", page 12/46.



## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Metal Enclosures

Enclosure width 56 mm, XL

#### Modular system

4 or 6 contacts · Degree of protection IP66/IP67 · Cable entry 3 × (M20 × 1.5)

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		

#### Basic switches • Enclosure width 56 mm, XL



Basic switch


##### With 3 x M20 x 1.5 connecting thread

Slow-action contacts	2 × (1 NO + 1 NC) --	⊕ A	<b>3SE5162-0BA00</b>	1	1 unit	41K
Snap-action contacts	2 × (1 NO + 1 NC) --	⊕ A	<b>3SE5162-0CA00</b>	1	1 unit	41K
Slow-action contacts with make-before-break	2 × (1 NO + 2 NC) --	⊕ A	<b>3SE5162-0DA00</b>	1	1 unit	41K

##### With increased corrosion protection<sup>1)</sup>

Slow-action contacts	2 × (1 NO + 1 NC) --	⊕ B	<b>3SE5162-0BA00-1CA0</b>	1	1 unit	41K
Snap-action contacts	2 × (1 NO + 1 NC) --	⊕ B	<b>3SE5162-0CA00-1CA0</b>	1	1 unit	41K
Slow-action contacts with make-before-break	2 × (1 NO + 2 NC) --	⊕ B	<b>3SE5162-0DA00-1CA0</b>	1	1 unit	41K


 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positively opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Use corresponding high-grade steel lever.

Note:

Selection aid, see page 12/14.

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm					
			Article No.	Price per PU		

#### Operating mechanisms



Plain plunger

##### Plain plungers

High-grade steel plunger	10	⊕ A	<b>3SE5000-0AB01</b>	1	1 unit	41K
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Rounded plunger

##### Rounded plungers, type B, acc. to EN 50041

High-grade steel plungers, with 3 mm overtravel	10	⊕ B	<b>3SE5000-0AC02</b>	1	1 unit	41K
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Roller plunger

##### Roller plungers, type C acc. to EN 50041

High-grade steel roller, with 3 mm overtravel	13	⊕ B	<b>3SE5000-0AD02</b>	1	1 unit	41K
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Roller lever

##### Roller levers

Metal lever, plastic roller	22	⊕ A	<b>3SE5000-0AE01</b>	1	1 unit	41K
Metal lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AE02</b>	1	1 unit	41K
High-grade steel lever, plastic roller	22	⊕ B	<b>3SE5000-0AE03</b>	1	1 unit	41K
High-grade steel lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AE04</b>	1	1 unit	41K



Angular roller lever

##### Angular roller lever


Metal lever, plastic roller	22	⊕ A	<b>3SE5000-0AF01</b>	1	1 unit	41K
Metal lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AF02</b>	1	1 unit	41K
High-grade steel lever, plastic roller	22	⊕ B	<b>3SE5000-0AF03</b>	1	1 unit	41K
High-grade steel lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AF04</b>	1	1 unit	41K



Spring rod

##### Spring rods (for switches with snap-action contacts only)





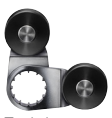

Plunger made of plastic, spring of high-grade steel:	7					
• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR01</b>	1	1 unit	41K
• Length 76 mm (spring 23.5 mm, plunger 10 mm)		B	<b>3SE5000-0AR03</b>	1	1 unit	41K
• Length 242.5 mm (spring 150 mm, plunger 50 mm)		B	<b>3SE5000-0AR04</b>	1	1 unit	41K
Plunger and spring made of high-grade steel:	7					
• Length 142.5 mm (spring 50 mm, plunger 50 mm)		B	<b>3SE5000-0AR02</b>	1	1 unit	41K

 Positively driven actuator, necessary in safety circuits.

# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Enclosure width 56 mm, XL

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Twist actuators</b>							
	<b>Twist actuators, metal (without lever)</b>						
	<ul style="list-style-type: none"> <li>For twist levers and rod actuators, switching right and/or left, adjustable</li> <li>For fork levers, latching</li> </ul>	<ul style="list-style-type: none"> <li>⊕ A</li> <li>⊕ B</li> </ul>	<ul style="list-style-type: none"> <li><b>3SE5000-0AH00</b></li> <li><b>3SE5000-0AT10</b></li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>1</li> </ul>	<ul style="list-style-type: none"> <li>1 unit</li> <li>1 unit</li> </ul>	<ul style="list-style-type: none"> <li>41K</li> <li>41K</li> </ul>	
<b>Levers</b>							
	<b>Twist levers 27 mm, offset, type A, acc. to EN 50041</b>						
	Metal lever, plastic roller	19	⊕ A	<b>3SE5000-0AA01</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ A	<b>3SE5000-0AA02</b>	1	1 unit	41K
	Metal lever, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA03</b>	1	1 unit	41K
	Metal lever, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AA04</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA05</b>	1	1 unit	41K
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA07</b>	1	1 unit	41K
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA08</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA11</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA12</b>	1	1 unit	41K
	<b>Twist levers 35 mm, offset</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA15</b>	1	1 unit	41K
High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA16</b>	1	1 unit	41K	
<b>Twist levers 30 mm, straight<sup>1)</sup></b>							
Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit	41K	
Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit	41K	
	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit	41K
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA67</b>	1	1 unit	41K
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit	41K
	<b>Twist lever, adjustable length</b>						
	Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit	41K
Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit	41K	
Metal lever, plastic roller	50	B	<b>3SE5000-0AA57</b>	1	1 unit	41K	
Metal lever, rubber roller	50	B	<b>3SE5000-0AA58</b>	1	1 unit	41K	
High-grade steel lever, plastic roller	19	B	<b>3SE5000-0AA52</b>	1	1 unit	41K	
High-grade steel lever, high-grade steel roller	19	B	<b>3SE5000-0AA53</b>	1	1 unit	41K	
	<b>Twist lever, adjustable length</b>						
	Metal lever, plastic roller	19	A	<b>3SE5000-0AA50</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	B	<b>3SE5000-0AA51</b>	1	1 unit	41K
	Metal lever, plastic roller	30	B	<b>3SE5000-0AA55</b>	1	1 unit	41K
	Metal lever, plastic roller	50	B	<b>3SE5000-0AA57</b>	1	1 unit	41K
	<b>Fork levers (for switches with snap-action contacts only)</b>						
	2 metal levers, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AT01</b>	1	1 unit	41K
	2 metal levers, 2 high-grade steel rollers	19	⊕ B	<b>3SE5000-0AT02</b>	1	1 unit	41K
	2 high-grade steel levers, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AT03</b>	1	1 unit	41K
	2 high-grade steel levers, 2 high-grade steel rollers	19	⊕ B	<b>3SE5000-0AT04</b>	1	1 unit	41K
	<b>Rod actuators, type D, acc. to EN 50041</b>						
	Aluminum rod, length 200 mm	6	B	<b>3SE5000-0AA80</b>	1	1 unit	41K
	Spring rod, length 200 mm	6	B	<b>3SE5000-0AA81</b>	1	1 unit	41K
	Plastic rod, length 200 mm	6	B	<b>3SE5000-0AA82</b>	1	1 unit	41K
	Plastic rod, length 330 mm	6	B	<b>3SE5000-0AA83</b>	1	1 unit	41K

⊕ Positively driven actuator, necessary in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).

## SIRIUS 3SE5 Mechanical Position Switches



### 3SE5, Metal Enclosures

Ambient temperature down to  $-40\text{ °C}$

#### Selection and ordering data

##### Complete units

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		

#### Complete units • Enclosure width 31 mm

##### Rounded plungers, type B, acc. to EN 50047



Rounded plunger

Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5212-0CC05-1AJ0</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5212-0KC05-1AJ0</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5212-0LC05-1AJ0</b>	1	1 unit	41K

##### Twist levers, type A acc. to EN 50047




Twist lever

With metal lever 21 mm and high-grade steel roller 19 mm, twist actuator in metal version

Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5212-0CH22-1AJ0</b>	1	1 unit	41K
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 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

##### Note:

If the device you require is not available as a complete unit, see "Modular system".



# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

Ambient temperature down to  $-40\text{ }^{\circ}\text{C}$ 

### Modular system

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
				Configurator			
				Article No.	Price per PU		

### Basic switches • Enclosure width 31 mm (with rounded plunger<sup>1)</sup>)



Basic switch

#### With plunger

Snap-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5212-0CC05-1AJ0</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5212-0KC05-1AJ0</b>	1	1 unit	41K
Snap-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5212-0LC05-1AJ0</b>	1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator, necessary in safety circuits.

<sup>1)</sup> For enclosures with widths of 31 mm, the basic switch is a complete unit with rounded plungers.

Note:

Selection aid, see page 12/14.

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm		Article No.	Price per PU		

### Operating mechanisms



Roller plunger

#### Roller plungers, type C acc. to EN 50047

Plastic rollers	10	⊕ B	<b>3SE5000-0AD03-1AJ0</b>	1	1 unit	41K
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Roller levers

#### Roller levers, type E, acc. to EN 50047

Metal lever, plastic roller	13	⊕ B	<b>3SE5000-0AE10-1AJ0</b>	1	1 unit	41K
High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AE12-1AJ0</b>	1	1 unit	41K



Angular roller lever

#### Angular roller levers

Metal lever, plastic roller	13	⊕ B	<b>3SE5000-0AF10-1AJ0</b>	1	1 unit	41K
High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AF12-1AJ0</b>	1	1 unit	41K



Twist actuator

#### Twist actuators, plastic (without lever)

Switching right and/or left, adjustable		⊕ B	<b>3SE5000-0AK00-1AJ0</b>	1	1 unit	41K
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#### Levers



Twist lever

#### Twist levers straight, 21 mm, type A acc. to EN 50047

Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA21-1AJ0</b>	1	1 unit	41K
High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA31-1AJ0</b>	1	1 unit	41K



Twist lever, adjustable length

#### Twist levers, adjustable length, with grid hole

Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60-1AJ0</b>	1	1 unit	41K
High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62-1AJ0</b>	1	1 unit	41K

⊕ Positively driven actuator, necessary in safety circuits.




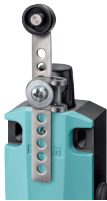
## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Metal Enclosures

Ambient temperature down to  $-40\text{ °C}$

#### Complete units

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	DT	Complete units	Configurator	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
<b>Complete units • Enclosure width 40 mm</b>										
	<b>Rounded plungers, type B, acc. to EN 50041</b> With high-grade steel plungers, with 3 mm overtravel									
Rounded plunger	Snap-action contacts	1 NO + 1 NC	--	⊕ B		<b>3SE5112-0CC02-1AJ0</b>		1	1 unit	41K
	<b>Twist levers, type A, acc. to EN 50041</b> With high-grade steel lever 27 mm and plastic roller 19 mm									
Twist lever	Snap-action contacts	1 NO + 2 NC	--	⊕ B		<b>3SE5112-0LH11-1AJ0</b>		1	1 unit	41K
	<b>Twist lever, adjustable length</b> With high-grade steel lever with grid hole and plastic roller 19 mm									
Twist lever, adjustable length, with grid hole	Snap-action contacts	1 NO + 1 NC	--	⊕ B		<b>3SE5112-0CH62-1AJ0</b>		1	1 unit	41K
<b>Complete units • Enclosure width 56 mm, XL</b>										
	<b>Twist lever, adjustable length</b> With metal lever with grid hole and plastic roller 19 mm									
Twist lever, adjustable length, with grid hole	Snap-action contacts	1 NO + 1 NC	--	⊕ B		<b>3SE5162-0CH60-1AJ0</b>		1	1 unit	41K

⚙ For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K or positively driven actuator, necessary in safety circuits.

#### Note:














If the device you require is not available as a complete unit, see "Modular system".

## SIRIUS 3SE5 Mechanical Position Switches 3SE5, Metal Enclosures


Ambient temperature down to  $-40\text{ }^{\circ}\text{C}$ 

### Modular system

2, 3 or 4 contacts · Degree of protection IP66/IP67 · Cable entry M20 x 1.5

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		
<b>Basic switches • Enclosure width 40 mm</b>							
	<b>With M20 x 1.5 connecting thread</b>						
	Snap-action contacts	1 NO + 1 NC	--	 B	<b>3SE5112-0CA00-1AJ0</b>	1	1 unit 41K
	Slow-action contacts	1 NO + 2 NC	--	 B	<b>3SE5112-0KA00-1AJ0</b>	1	1 unit 41K
	Snap-action contacts	1 NO + 2 NC	--	 B	<b>3SE5112-0LA00-1AJ0</b>	1	1 unit 41K
Basic switch							
<b>Basic switches • Enclosure width 56 mm</b>							
	<b>With 3 x M20 x 1.5 connecting thread</b>						
	Snap-action contacts	1 NO + 1 NC	--	 B	<b>3SE5122-0CA00-1AJ0</b>	1	1 unit 41K
	Slow-action contacts	1 NO + 2 NC	--	 B	<b>3SE5122-0KA00-1AJ0</b>	1	1 unit 41K
	Snap-action contacts	1 NO + 2 NC	--	 B	<b>3SE5122-0LA00-1AJ0</b>	1	1 unit 41K
Basic switch							
<b>Basic switches • Enclosure width 56 mm, XL</b>							
	<b>With 3 x M20 x 1.5 connecting thread</b>						
	Slow-action contacts	2 x (1 NO + 1 NC)	--	 B	<b>3SE5162-0BA00-1AJ0</b>	1	1 unit 41K
	Snap-action contacts	2 x (1 NO + 1 NC)	--	 B	<b>3SE5162-0CA00-1AJ0</b>	1	1 unit 41K
Basic switch							

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K or positively driven actuator, necessary in safety circuits.








Note:

Selection aid, see page 12/14.

## SIRIUS 3SE5 Mechanical Position Switches

### 3SE5, Metal Enclosures

Ambient temperature down to  $-40\text{ }^{\circ}\text{C}$

Version	Diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm		Article No.	Price per PU		
<b>Operating mechanisms</b>						
	<b>Rounded plungers, type B, acc. to EN 50041</b> High-grade steel plungers, with 3 mm overtravel	10	⊕ B	<b>3SE5000-0AC02-1AJ0</b>	1	1 unit 41K
Rounded plunger						
	<b>Roller plungers, type C acc. to EN 50041</b> High-grade steel roller, with 3 mm overtravel	10	⊕ B	<b>3SE5000-0AD02-1AJ0</b>	1	1 unit 41K
Roller plunger						
	<b>Roller levers</b> Metal lever, plastic roller	13	⊕ B	<b>3SE5000-0AE01-1AJ0</b>	1	1 unit 41K
Roller lever	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AE03-1AJ0</b>	1	1 unit 41K
	<b>Angular roller levers</b> Metal lever, plastic roller	13	⊕ B	<b>3SE5000-0AF01-1AJ0</b>	1	1 unit 41K
Angular roller lever	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AF03-1AJ0</b>	1	1 unit 41K
<b>Twist actuators</b>						
	<b>Twist actuators, metal (without lever)</b> Switching right and/or left, adjustable		⊕ B	<b>3SE5000-0AH00-1AJ0</b>	1	1 unit 41K
Twist actuator						
<b>Levers</b>						
	<b>Twist levers, type A, acc. to EN 50041</b> Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA01-1AJ0</b>	1	1 unit 41K
Twist lever	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA11-1AJ0</b>	1	1 unit 41K
	<b>Twist levers, adjustable length, with grid hole</b> Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60-1AJ0</b>	1	1 unit 41K
Twist lever, adjustable length	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62-1AJ0</b>	1	1 unit 41K

⊕ Positively driven actuator, necessary in safety circuits.

## SIRIUS 3SE5 Mechanical Position Switches 3SE5, Metal Enclosures

Compact design

### Overview



Compact design in width 30 mm

Particularly in harsh environments or on equipment with limited space, the small 3SE54 position switches in compact design with a depth of 16 mm and a weight of only 80 g (without cable) are ideal. Above all the versions with molded cable can be mounted in the most confined spaces.

3SE54 compact position switches are available in two different widths as complete units:

- The 3SE5413 series complies with the EU standard and features a 30 mm wide enclosure with drilled holes at a distance of 20 mm.
- The 3SE5423 series meets the requirements of the US market and features a 40 mm wide enclosure with drilled holes at a spacing of 25 mm.

Both the enclosure and the actuator head are made of metal and comply with the high IP67 degree of protection. The following actuators are available:

- Rounded plungers
- Rounded plungers with central fixing
- Rounded plungers with external seal
- Roller plungers
- Roller plungers with central fixing
- Twist levers

The contact block is designed with snap-action contacts 1 NO + 1 NC. The NC contact complies with the requirements for positive opening acc. to IEC 60947-5-1.

Use in safety circuits up to Category 4 according to EN ISO 13849-1.

Connection:

- With molded cable, 2 m or 5 m long
- With M12 connector socket

### Benefits

- Very compact yet with the same rating as the 3SE51 standard switches, for notable space savings in confined installation conditions
- Various actuator versions available
- Roller plungers can be rotated through 90°
- Twist lever can be rotated through 180°; Twist lever can be adjusted in 15° increments
- Time is saved when mounting the fully assembled unit
- With metal enclosure of degree of protection IP67, ideal for use in rough industrial environments
- Insensitive to electromagnetic interference








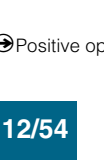
# SIRIUS 3SE5 Mechanical Position Switches

## 3SE5, Metal Enclosures

### Compact design

#### Selection and ordering data

2 snap-action contacts 1 NO + 1 NC · Degree of protection IP67 · With connecting cable or M12 connector socket

Operating mechanism	Enclosure width	DT	Configurator		PU (UNIT, SET, M)	PS*	PG
			Article No.	Price per PU			
<b>Complete units • Enclosure width 30 or 40 mm</b>							
<b>Rounded plungers</b>							
	• Standard mounting						
	- With 2 m cable 5 x 0.75 mm <sup>2</sup>	30	⊕ A	<b>3SE5413-0CC20-1EA2</b>		1	1 unit 41K
		40	⊕ A	<b>3SE5423-0CC20-1EA2</b>		1	1 unit 41K
Rounded plunger	- With 5 m cable 5 x 0.75 mm <sup>2</sup>		30	⊕ B	<b>3SE5413-0CC20-1EA5</b>	1	1 unit 41K
	- With M12 connector socket, 5-pole	30	⊕ A	<b>3SE5413-0CC20-1EB1</b>	1	1 unit 41K	
		40	⊕ A	<b>3SE5423-0CC20-1EB1</b>	1	1 unit 41K	
	• With central fixing M12 x 1						
	- With 2 m cable 5 x 0.75 mm <sup>2</sup>	30	⊕ A	<b>3SE5413-0CC21-1EA2</b>		1	1 unit 41K
With central fixing		40	⊕ A	<b>3SE5423-0CC21-1EA2</b>		1	1 unit 41K
	• With external seal						
	- With 2 m cable 5 x 0.75 mm <sup>2</sup>	30	⊕ A	<b>3SE5413-0CC22-1EA2</b>		1	1 unit 41K
With external seal		40	⊕ A	<b>3SE5423-0CC22-1EA2</b>		1	1 unit 41K
<b>Roller plunger</b>							
	• Standard mounting						
	- With 2 m cable 5 x 0.75 mm <sup>2</sup>	30	⊕ A	<b>3SE5413-0CD20-1EA2</b>		1	1 unit 41K
		40	⊕ A	<b>3SE5423-0CD20-1EA2</b>		1	1 unit 41K
Roller plunger	- With 5 m cable 5 x 0.75 mm <sup>2</sup>		30	⊕ B	<b>3SE5413-0CD20-1EA5</b>	1	1 unit 41K
	- With M12 connector socket, 5-pole	30	⊕ A	<b>3SE5413-0CD20-1EB1</b>	1	1 unit 41K	
		40	⊕ A	<b>3SE5423-0CD20-1EB1</b>	1	1 unit 41K	
	• With central fixing M12 x 1						
	- With 2 m cable 5 x 0.75 mm <sup>2</sup>	30	⊕ A	<b>3SE5413-0CD21-1EA2</b>		1	1 unit 41K
With plug		40	⊕ A	<b>3SE5423-0CD21-1EA2</b>		1	1 unit 41K
	• Actuator head rotated 90°						
	- With 2 m cable 5 x 0.75 mm <sup>2</sup>	30	⊕ A	<b>3SE5413-0CD23-1EA2</b>		1	1 unit 41K
With plug, enclosure width 40 mm							
<b>Twist levers</b>							
	• Standard mounting						
	- With 2 m cable 5 x 0.75 mm <sup>2</sup>	30	⊕ A	<b>3SE5413-0CN20-1EA2</b>		1	1 unit 41K
		40	⊕ A	<b>3SE5423-0CN20-1EA2</b>		1	1 unit 41K
Twist lever	- With 5 m cable 5 x 0.75 mm <sup>2</sup>		30	⊕ A	<b>3SE5413-0CN20-1EA5</b>	1	1 unit 41K
	- With M12 connector socket, 5-pole	30	⊕ A	<b>3SE5413-0CN20-1EB1</b>	1	1 unit 41K	
		40	⊕ A	<b>3SE5423-0CN20-1EB1</b>	1	1 unit 41K	
	• Twist levers with a smaller mounting depth and lower height						
	- With 2 m cable 5 x 0.75 mm <sup>2</sup>	30	⊕ A	<b>3SE5413-0CP20-1EA2</b>		1	1 unit 41K

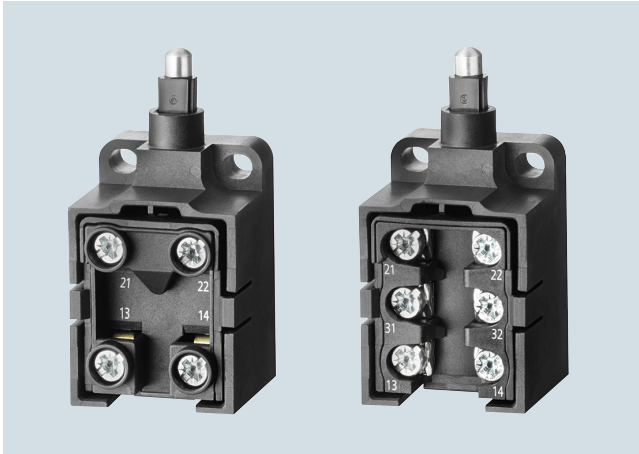
⊕ Positive opening according to IEC 60947-5-1, Appendix K.

# SIRIUS 3SE5 Mechanical Position Switches

## Open-Type

3SE5, open-type design

### Overview



Open-type

Their compact design makes these switches particularly suitable for use in confined conditions. The fixing dimensions and operating points are according to EN 50047.

The switches are equipped with two or three contacts in snap-action, slow-action or slow-action with make-before-break versions. The stroke is 6 mm.





The empty enclosure can be equipped with all contact block versions (see page 12/57).

#### Improved version

NEW: The switches now have a robust metal plunger with increased abrasion resistance (instead of the teflon plunger). This enables the switch to be approached from a 30° angle.

### Selection and ordering data

2 or 3 contacts · Degree of protection IP20 (2 contacts), IP10 (3 contacts)









Version	Contacts	DT	Configurator	PU (UNIT, SET, M)	PS*	PG
			Article No.	Price per PU		
<b>Plastic enclosures • Enclosure width 30 mm</b>						
<b>With metal plunger, Ø 6 mm</b>						
	Slow-action contacts	1 NO + 1 NC	⊕ A	<b>3SE5250-0BC05</b>	1	1 unit 41K
	Snap-action contacts	1 NO + 1 NC	⊕ ▶	<b>3SE5250-0CC05</b>	1	1 unit 41K
	Slow-action contacts	1 NO + 2 NC	⊕ B	<b>3SE5250-0KC05</b>	1	1 unit 41K
	Snap-action contacts	1 NO + 2 NC	⊕ ▶	<b>3SE5250-0LC05</b>	1	1 unit 41K
	Slow-action contacts with make-before-break	1 NO + 2 NC	⊕ A	<b>3SE5250-0MC05</b>	1	1 unit 41K
	Slow-action contacts	2 NO + 1 NC	⊕ A	<b>3SE5250-0PC05</b>	1	1 unit 41K
	Empty enclosures without contact block	--	⊕ B	<b>3SE5250-0AC05</b>	1	1 unit 41K
<b>Contact blocks with 2 contacts for open-type design<sup>1)</sup></b>						
	• Slow-action contacts	1 NO + 1 NC	⊕ B	<b>3SE5050-0BA00</b>	1	1 unit 41K
	• Snap-action contacts	1 NO + 1 NC	⊕ B	<b>3SE5050-0CA00</b>	1	1 unit 41K
	- Standard		⊕ B	<b>3SE5050-0GA00</b>	1	1 unit 41K
	- 2 × 2 mm switching interval		⊕ B	<b>3SE5050-0GA00</b>	1	1 unit 41K
	- Short stroke		⊕ B	<b>3SE5050-0NA00</b>	1	1 unit 41K

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Contact blocks with 3 contacts, see page 12/57.





Version	Color/ contacts	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
<b>Optional accessories for 3SE51, 3SE52</b>							
	<b>Protective caps, rubber</b> For rounded plungers acc. to EN 50047, 3SE5...-...C05	Black	A	<b>3SE5000-0AC30</b>	1	1 unit	41K
Protective cap							
	<b>Adapters with screw<sup>2)</sup></b> For an increase in the mounting depth on the 3SE5000-0AH00 twist actuator, in combination with twist lever with adjustable length or rod actuator		B	<b>3SX5100-3B</b>	1	1 unit	41K
Adapter							
	<b>Mounting plate</b> Suitable for 3SE523, and 3SE521, position switches with a width of 31 mm (in particular for control cabinet types)		B	<b>3SX5100-1A</b>	1	1 unit	41K
Mounting plate							
<b>Spare parts for 3SE51, 3SE52</b>							
	<b>Empty enclosures, plastic</b> Enclosure width 31 mm • With increased corrosion protection	Turquoise	B	<b>3SE5232-0AC05</b>	1	1 unit	41K
Enclosure width 31 mm							
	Enclosure width 40 mm		B	<b>3SE5232-0AC05-1CA0</b>	1	1 unit	41K
	Enclosure width 50 mm		B	<b>3SE5132-0AA00</b>	1	1 unit	41K
	• With increased corrosion protection		B	<b>3SE5242-0AC05</b>	1	1 unit	41K
			B	<b>3SE5242-0AC05-1CA0</b>	1	1 unit	41K
	<b>Empty enclosures, metal</b> Enclosure width 31 mm • With increased corrosion protection	Turquoise	B	<b>3SE5212-0AC05</b>	1	1 unit	41K
Enclosure width 40 mm							
	Enclosure width 40 mm		B	<b>3SE5212-0AC05-1CA0</b>	1	1 unit	41K
	• With increased corrosion protection		B	<b>3SE5112-0AA00</b>	1	1 unit	41K
	Enclosure width 56 mm		B	<b>3SE5112-0AA00-1CA0</b>	1	1 unit	41K
	• With increased corrosion protection		B	<b>3SE5122-0AA00</b>	1	1 unit	41K
	Enclosure width 56 mm, XL <sup>3)</sup>		B	<b>3SE5122-0AA00-1CA0</b>	1	1 unit	41K
			B	<b>3SE5162-0AA00</b>	1	1 unit	41K
	<b>Contact blocks with 2 contacts<sup>4)</sup></b> • Slow-action contacts • Snap-action contacts - Standard - Gold-plated contacts - 2 x 2 mm switching interval - Short stroke	1 NO + 1 NC 1 NO + 1 NC	⊕ B ⊕ C ⊕ B ⊕ B ⊕ B	<b>3SE5000-0BA00</b> <b>3SE5000-0CA00</b> <b>3SE5000-0CA00-1AC1</b> <b>3SE5000-0GA00</b> <b>3SE5000-0NA00</b>	1	1 unit	41K
2 contacts							
	<b>Contact blocks with 3 contacts</b> • Slow-action contacts • Snap-action contacts • Slow-action contacts with make-before-break • Slow-action contacts	1 NO + 2 NC 1 NO + 2 NC 1 NO + 2 NC 2 NO + 1 NC	⊕ B ⊕ B ⊕ A ⊕ A	<b>3SE5000-0KA00</b> <b>3SE5000-0LA00</b> <b>3SE5000-0MA00</b> <b>3SE5000-0PA00</b>	1	1 unit	41K
3 contacts							
	<b>Contact blocks for enclosure XL<sup>3)</sup></b> • Slow-action contacts • Snap-action contacts • Slow-action contacts with make-before-break	1 NO + 1 NC 1 NO + 1 NC 1 NO + 2 NC	⊕ B ⊕ B ⊕ B	<b>3SE5060-0BA00</b> <b>3SE5060-0CA00</b> <b>3SE5060-0MA00</b>	1	1 unit	41K
2 contacts							

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Download of the Configuration Manual, see <http://support.automation.siemens.com/WW/view/en/43920150>.







<sup>2)</sup> Possibly required for the conversion from 3SE21 to 3SE51.

<sup>3)</sup> Equip XL enclosures only with contact combinations according to pages 12/13, 12/45 and 12/46.

<sup>4)</sup> Unsuitable for open-type position switches; see page 12/55.

## SIRIUS 3SE5 Mechanical Position Switches

## Accessories and spare parts

Version	Rated voltage LED	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
V								
<b>Spare parts for 3SE51, 3SE52</b>								
 31 mm, turquoise with LED	<b>Covers for plastic enclosures, width 31 mm</b>							
	• Turquoise with LED	24 DC	B	<b>3SE5230-1AA00</b>		1	1 unit	41K
		230 AC	B	<b>3SE5230-3AA00</b>		1	1 unit	41K
	• Yellow	--	B	<b>3SE5230-0AA00-1AG0</b>		1	1 unit	41K
	• Yellow with LED	24 DC	B	<b>3SE5230-1AA00-1AG0</b>		1	1 unit	41K
		230 AC	B	<b>3SE5230-3AA00-1AG0</b>		1	1 unit	41K
 40 mm, yellow with LED	<b>Covers for plastic enclosures, width 40 mm</b>							
	• Turquoise with LED	24 DC	B	<b>3SE5130-1AA00</b>		1	1 unit	41K
		230 AC	B	<b>3SE5130-3AA00</b>		1	1 unit	41K
	• Yellow	--	B	<b>3SE5130-0AA00-1AG0</b>		1	1 unit	41K
	• Yellow with LED	24 DC	B	<b>3SE5130-1AA00-1AG0</b>		1	1 unit	41K
		230 AC	B	<b>3SE5130-3AA00-1AG0</b>		1	1 unit	41K
 50 mm, turquoise with LED	<b>Covers for plastic enclosures, width 50 mm</b>							
	• Turquoise with LED	24 DC	B	<b>3SE5240-1AA00</b>		1	1 unit	41K
		230 AC	B	<b>3SE5240-3AA00</b>		1	1 unit	41K
	• Yellow	--	B	<b>3SE5240-0AA00-1AG0</b>		1	1 unit	41K
	• Yellow with LED	24 DC	B	<b>3SE5240-1AA00-1AG0</b>		1	1 unit	41K
		230 AC	B	<b>3SE5240-3AA00-1AG0</b>		1	1 unit	41K
 31 mm, turquoise with LED	<b>Covers for metal enclosures, width 31 mm</b>							
	• Turquoise with LED	24 DC	B	<b>3SE5210-1AA00</b>		1	1 unit	41K
		230 AC	B	<b>3SE5210-3AA00</b>		1	1 unit	41K
	• Yellow	--	B	<b>3SE5210-0AA00-1AG0</b>		1	1 unit	41K
	• Yellow with LED	24 DC	B	<b>3SE5210-1AA00-1AG0</b>		1	1 unit	41K
		230 AC	B	<b>3SE5210-3AA00-1AG0</b>		1	1 unit	41K
 40 mm, yellow with LED	<b>Covers for metal enclosures, width 40 mm</b>							
	• Turquoise with LED	24 DC	B	<b>3SE5110-1AA00</b>		1	1 unit	41K
		230 AC	B	<b>3SE5110-3AA00</b>		1	1 unit	41K
	• Yellow	--	B	<b>3SE5110-0AA00-1AG0</b>		1	1 unit	41K
	• Yellow with LED	24 DC	B	<b>3SE5110-1AA00-1AG0</b>		1	1 unit	41K
		230 AC	B	<b>3SE5110-3AA00-1AG0</b>		1	1 unit	41K
 56 mm, yellow with LED	<b>Covers for metal enclosures, width 56 mm</b>							
	• Turquoise with LED	24 DC	B	<b>3SE5120-1AA00</b>		1	1 unit	41K
		230 AC	B	<b>3SE5120-3AA00</b>		1	1 unit	41K
	• Yellow	--	B	<b>3SE5120-0AA00-1AG0</b>		1	1 unit	41K
	• Yellow with LED	24 DC	B	<b>3SE5120-1AA00-1AG0</b>		1	1 unit	41K
		230 AC	B	<b>3SE5120-3AA00-1AG0</b>		1	1 unit	41K
<b>Covers for XL metal enclosures, width 56 mm</b>								
• Yellow	--	B	<b>3SE5160-0AA00-1AG0</b>		1	1 unit	41K	

## Manual

System Manual "SIRIUS 3SE5 / 3SF1 Position Switches", see  
<http://support.automation.siemens.com/WW/view/en/43920150>.

## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

General data

### Overview

Safety switches with separate actuator are used where the position of doors, covers or protective grilles must be monitored for safety reasons.

3SE5 safety switches with separate actuator have the same enclosures as the 3SE5 position switches (modular system).



3SE5 safety switches with head for separate actuator

### Design

#### Enclosure sizes

The 3SE5 safety switches are available in four different enclosure sizes:

- Plastic enclosures according to EN 50047, 31 mm wide, IP65, 1 cable entry
- Metal enclosures according to EN 50047, 31 mm wide, IP66/IP67, 1 cable entry
- Plastic and metal enclosures according to EN 50041, 40 mm wide, IP66/IP67, 1 cable entry
- Plastic enclosures, 50 mm wide, IP66/IP67, 2 cable entries
- Metal enclosures, 56 mm wide, IP66/IP67, 3 cable entries

Also available are safety switches in the 3SE2 series which have been developed in this form according to general market requirements:

- Molded-plastic enclosures outside of the standards, enclosure width 52 mm, IP67

#### Enclosure versions

Various basic versions can be selected for the enclosures of the 3SE5 series:

- Available with two- or three-pole contact blocks designed as slow-action contacts
- Optional LED status display
- With mounted four- or five-pole M12 connector socket (available for the wide enclosures as an accessory for self-assembly)
- With 6-pole connector socket + PE on the metal enclosures
- Similarly with a combination of connector socket and LED indicators
- AS-Interface version with integrated ASIsafe electronics for all enclosure designs (see page 12/92)

For a description of the basic switches, see page 12/4.

### Operation

The actuator head is included in the scope of supply. For actuation from four directions it can be adjusted through  $4 \times 90^\circ$ . The switches can also be approached from above.

The actuator heads of the 3SE2243 and 3SE2257 switches with special enclosures cannot be changed. The switches can be approached from the two broad sides and from above.

The actuators are not included in the scope of supply of the safety switches and must be ordered separately from a choice of different versions to suit the application (see page 12/68).

The actuator is encoded. Simple overruling by hand or auxiliary devices is impossible.

#### Radius actuators

The safety switches with radius actuators are particularly suitable for rotary protective devices. The movable actuation key allows even small radii to be approached. Damage to the switch and the actuator due to inaccurate approach is prevented.

#### Locking devices

A high-grade steel blocking insert for attaching up to eight padlocks is available for even more safety (see page 12/68).



Blocking inserts with padlock

#### Dust protection

A rubber cap to protect the actuator entry of the actuator head from contamination is available for operation in dusty environments (see page 12/68).

#### Contact reliability

The contact blocks ensure an extremely high contact stability. This applies even when the devices are switching low voltages and currents, e.g. 1 mA at 5 V DC.

#### Positive opening

The NC contacts of the switch are forced open mechanically, positively-driven and reliably by the plunger. This is referred to as "positive opening".

## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

### General data

#### Benefits

The 3SE5 safety switches with separate actuator differ from the previous series through the following new characteristics:

- All enclosure sizes with increased corrosion protection
- All enclosure sizes are optionally available with an LED signaling indicator
- The three-pole contact block 1 NO + 2 NC is available for all enclosure sizes
- The plastic enclosure has simple and fast wiring equipment which makes it possible to save approx. 20 to 25 % of the time when connecting
- The ASIsafe electronic component is integrated in the enclosure for the versions with AS-Interface connection (see page 12/92); an additional adapter is not required

#### Application

Safety switches with separate actuator are used where the position of doors, covers or protective grilles must be monitored for safety reasons.

The safety switch can only be operated with the matching coded actuator. Simple overruling by hand or auxiliary devices is impossible.

Devices are available with enclosure versions to suit the particular ambient conditions. Different control tasks can be performed with the best contact blocks suited for the particular purpose. Dimensions, fixing points of the enclosure are in

accordance with EN 50041 or EN 50047 standards. The devices are suitable for use in any climate.

#### Standards

IEC 60947-5-1 or EN 60947-5-1.

The protective measure of "total insulation" by the molded-plastic enclosure is guaranteed by the use of molded-plastic screw glands.

#### Safety position switches

For controls according to IEC 60204-1 or EN 60204-1 the devices can be used as a safety position switch. To secure position switches against changes in their position, keyed techniques must be employed on installation.

#### Safety circuits

IEC 60947-5-1 and EN 60947-5-1 require positive opening of the NC contacts, i.e. for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked according to the IEC standard 60947-5-1 with the symbol ⊕.

Category 3 according to EN ISO 13849-1 can be attained with a safety switch with separate actuator if the corresponding fail-safe evaluation units are selected and correctly installed, e.g. the 3SK1 or 3TK28 safety relays or matching units from the ASIsafe, SIMATIC or SINUMERIK product ranges.

Category 4 can be achieved when using an additional 3SE5 safety switch.

### Technical specifications

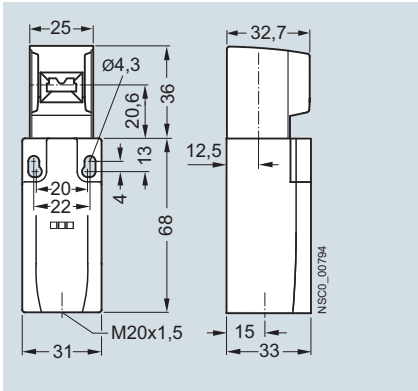
Type		3SE51...-V.., 3SE52...-V..	3SE2257-XX..	3SE2243-XX..			
<b>General data</b>							
<b>Standards</b>		IEC 60947-5-1, EN 60947-5-1					
<b>Rated insulation voltage <math>U_i</math></b>	V	400	500				
<b>Degree of pollution</b> acc. to IEC 60664-1		Class 3		Class 3			
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	kV	6					
<b>Rated operational voltage <math>U_e</math></b>	V	400 AC; over 300 V AC Only equal potential	500 AC; over 380 V AC Only equal potential				
<b>Conventional thermal current <math>I_{th}</math></b>	A	6		10			
<b>Rated operational current <math>I_e</math></b>		2-pole	3-pole	1-pole	3-pole		
• With alternating current 50/60 Hz		$I_e$ / AC-15	$I_e$ / AC-15	$I_e$ / AC-12	$I_e$ / AC-15	$I_e$ / AC-12	$I_e$ / AC-15
- At 24 V	A	6	6	10	10	10	10
- At 120 V	A	6	3	10	10	10	10
- At 240 V	A	3	1.5	10	6	10	4
- At 400 V	A	--	--	10	4	10	4
- At 500 V	A	--	--	10	3	10	3
• For direct current		$I_e$ / DC-13	$I_e$ / DC-13	$I_e$ / DC-12	$I_e$ / DC-13	$I_e$ / DC-12	$I_e$ / DC-13
- At 24 V	A	3	3	10	10	10	10
- At 125 V	A	0.55	0.55	--	--	--	--
- At 250 V	A	0.27	0.27	--	--	--	--
- At 110 V	A	--	--	4	1	4	1
- At 220 V	A	--	--	1	0.4	1	0.4
- At 440 V	A	--	--	0.5	0.2	0.5	0.2
<b>Short-circuit protection<sup>1)</sup></b>							
• With DIAZED fuse links, operational class gG	A	6		6		6	
• With fuse links, quick	A	--		10		10	
• With miniature circuit breaker, Char. C	A	1		--		--	
• With miniature circuit breaker, Char. B	A	2		--		--	
<b>Mechanical endurance</b>		1 × 10 <sup>6</sup> operating cycles					
<b>Electrical endurance</b>							
• With 3RH.1, 3RT contactors in size S00, S0		10 × 10 <sup>6</sup> operating cycles		> 1 × 10 <sup>6</sup> operating cycles			
• For utilization category AC-15 when switching off $I_e$ / AC-15 at 240 V		100 000 operating cycles		500 000 operating cycles			
<b>Switching frequency</b>		6000 operating cycles/h					
With 3RH.1, 3RT contactors in size S00, S0							
<b>Minimum pull-out force</b> for positive opening	N	20		10		30	

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

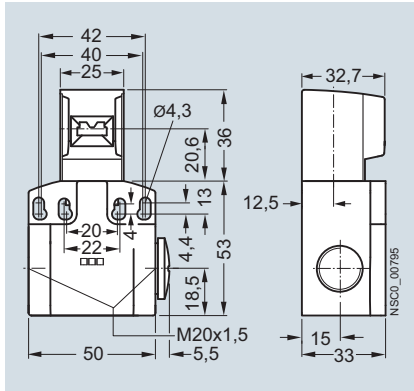
General data

## 3SE51, 3SE52 configuration

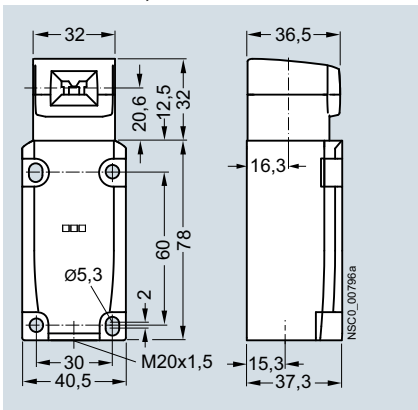
Enclosure width 31 mm  
3SE523.-.QV40, 3SE523.-.RV40



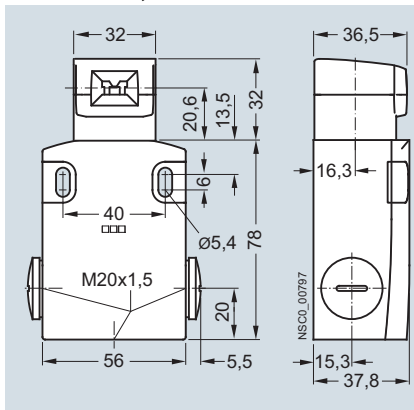
Enclosure width 50 mm  
3SE524.-.QV40, 3SE524.-.RV40



Enclosure width 40 mm  
3SE511.-.QV10, 3SE511.-.RV10

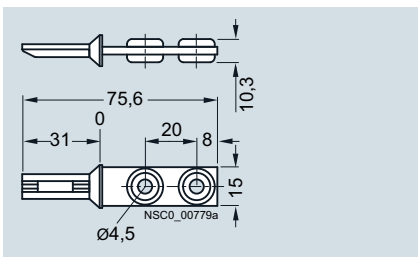


Enclosure width 56 mm  
3SE512.-.QV10, 3SE512.-.RV10

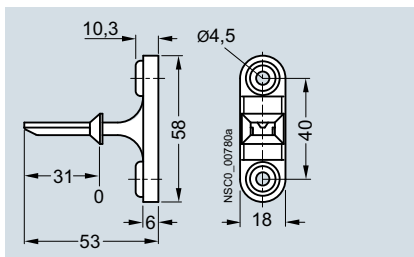


## Actuators

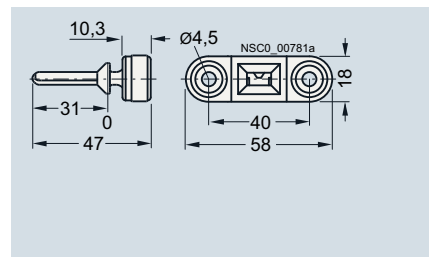
Standard actuator  
3SE5000-0AV01



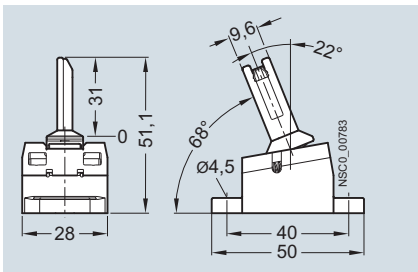
Actuator with vertical fixing  
3SE5000-0AV02



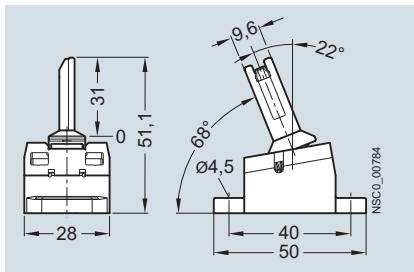
Actuator with horizontal fixing  
3SE5000-0AV03



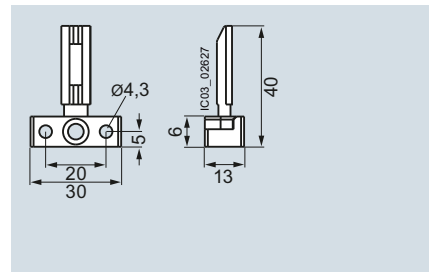
Radius actuator, approach from left  
3SE5000-0AV04



Radius actuator, approach from right  
3SE5000-0AV06



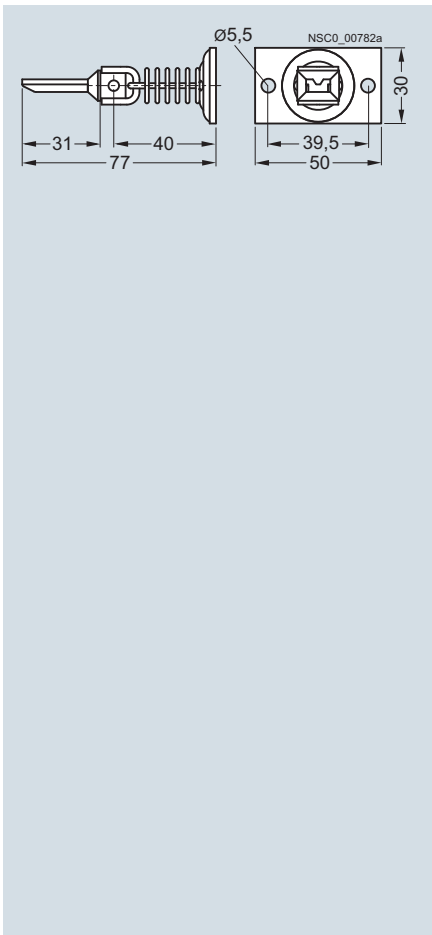
Actuator with horizontal fixing  
3SE5000-0AW11



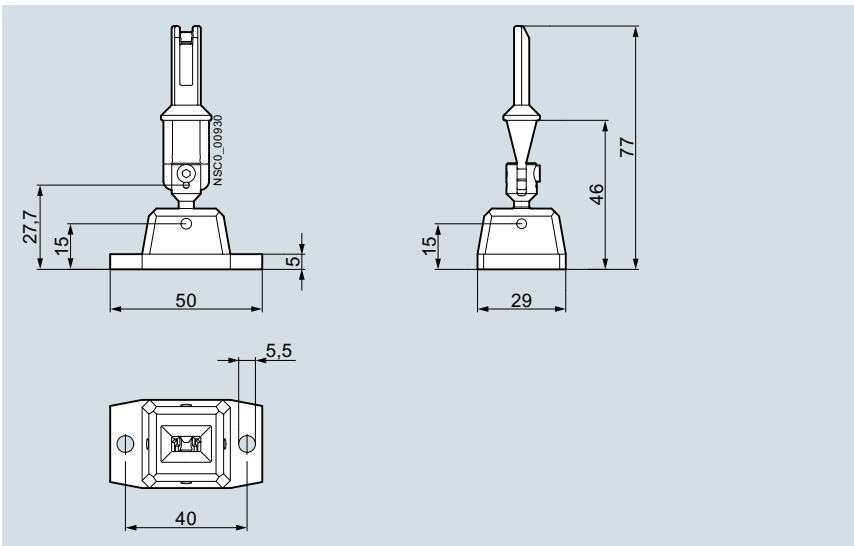
# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

## General data

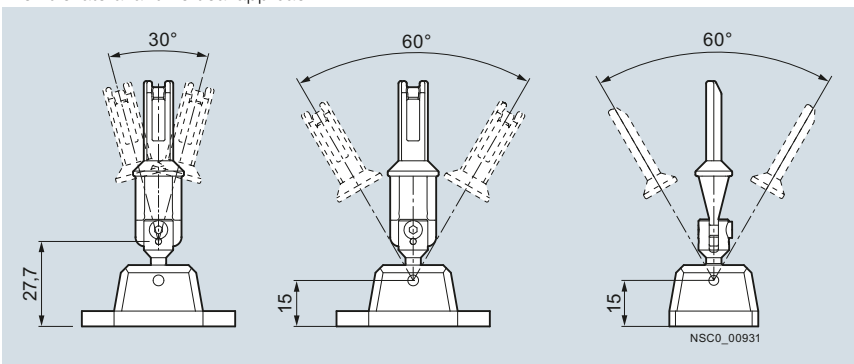
### Universal radius actuator 3SE5000-0AV05



### Universal radius actuator, heavy duty 3SE5000-0AV07



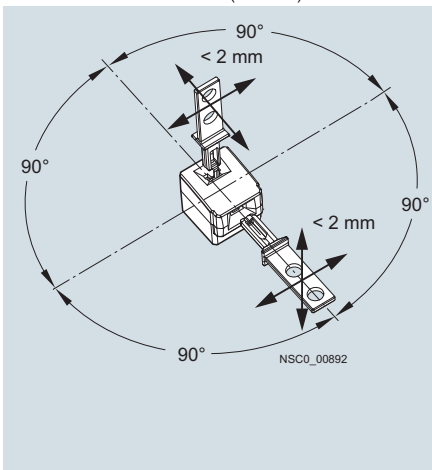
Flexible lateral and vertical approach



## Actuation and travel

### Standard actuators

Axial and lateral actuation (4 × 90°)



Lateral actuation (4 × 90°)

Slow-action contacts

**1 NO + 1 NC, Ident. No. 11**

**1 NO + 2 NC, Ident. No. 12**

mm 2,4\*\*  $\geq 30$

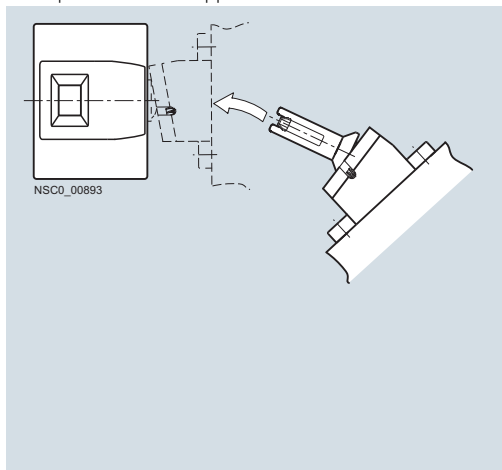
■ Contact closed  
□ Contact open

Actuator in actuator head:  
NC is closed

\*\* Positive opening point

### Radius actuators (all directions of approach)

Example: Direction of approach from the left



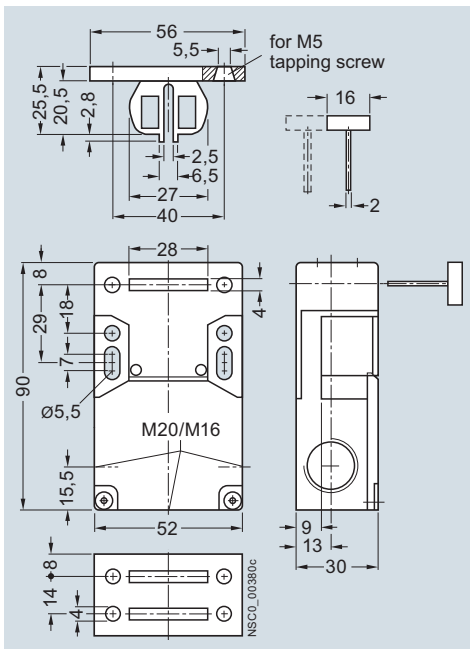
Circuit diagrams and connector assignment, [see page 12/13](#).

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

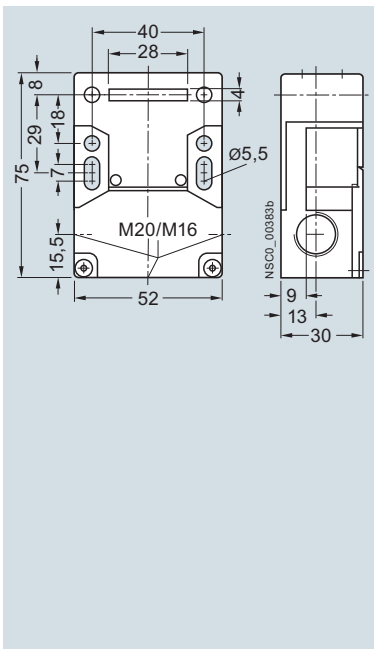
General data

## 3SE2243, 3SE2257 configuration

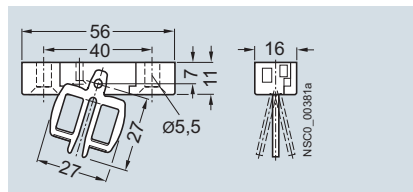
**3SE2243, lateral and front-end actuation, with 3SX3218 standard actuator**



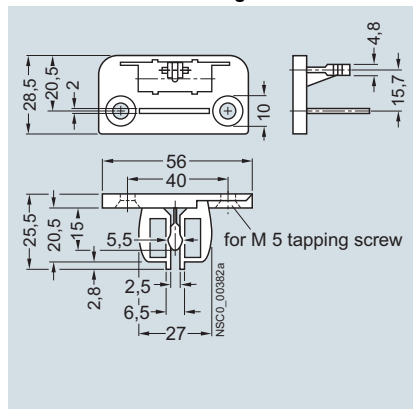
**3SE2257, lateral and front-end actuation**



**3SX3228  
Universal radius actuator**



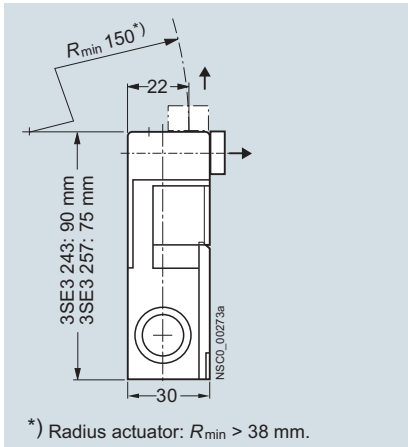
**3SX3217  
Actuator with ball locating**



## Actuation and travel

### Standard and radius actuators

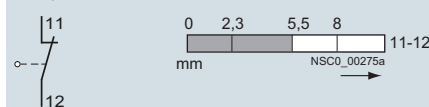
Axial and lateral actuation



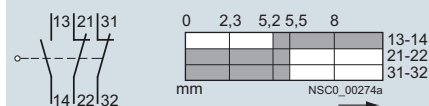
Lateral actuation

Slow-action contacts

**1 NC, Ident. No. 01**



**1 NO + 2 NC, Ident. No. 12**



■ Contact closed  
□ Contact open

Actuator in actuator head:  
NC is closed

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches

## With Separate Actuator

3SE5, plastic enclosures, enclosure width 31 mm according to EN 50047 / 50 mm

### Selection and ordering data

#### Complete units

2 or 3 contacts · 5 directions of approach · Degree of protection IP65 (31 mm) or IP66/IP67 (50 mm) · Cable entry M20 × 1.5

Version <sup>1)</sup>	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
				<input type="checkbox"/>			
				Article No.	Price per PU		
<b>Enclosure width 31 mm acc. to EN 50047</b>							
	<b>5 directions of approach</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5232-0RV40</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC --	⊕ ▶ B	<b>3SE5232-0QV40</b>	1	1 unit	41K
	<b>With increased minimum pull-out force 30 N</b>						
Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5232-0QV40-1AA1</b>	1	1 unit	41K	
	<b>With M12 connector socket, 4-pole (250 V, 4 A)</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5234-0RV40-1AC4</b>	1	1 unit	41K
	Slow-action contacts	2 NC --	⊕ B	<b>3SE5234-0QV40-1AE0</b>	1	1 unit	41K
		<b>With 2 LEDs, yellow/green</b>					
Slow-action contacts		1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5232-1RV40</b>	1	1 unit	41K
Slow-action contacts		1 NO + 1 NC 230 V AC	⊕ B	<b>3SE5232-3RV40</b>	1	1 unit	41K
<b>With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs</b>							
Slow-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5234-1RV40-1AF3</b>	1	1 unit	41K	
	<b>Ambient temperature down to -40° C <span style="color: red;">NEW</span></b>						
	<b>With increased corrosion protection</b>						
Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5232-0RV40-1AJ0</b>	1	1 unit	41K	
-40 °C, with increased corrosion protection							
<b>Enclosure width 50 mm</b>							
	<b>5 directions of approach</b>						
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5242-0QV40</b>	1	1 unit	41K
	<b>With increased minimum pull-out force 30 N</b>						
Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5242-0RV40-1AA1</b>	1	1 unit	41K	
	<b>With 2 LEDs, yellow/green</b>						
	Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5242-1QV40</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5242-3QV40</b>	1	1 unit	41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/68).

\* You can order this quantity or a multiple thereof.  
Illustrations are approximate




## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

3SE5, plastic enclosures, enclosure width 40 mm acc. to EN 50041

### Selection and ordering data

#### Complete units

2 or 3 contacts · 5 directions of approach · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version <sup>1)</sup>	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
				<input type="checkbox"/>			
							
				Article No.	Price per PU		

#### Enclosure width 40 mm acc. to EN 50041




With separate  
actuator

5 directions of approach								
Slow-action contacts	1 NO + 2 NC	--	⊕ B	<b>3SE5132-0QV20</b>	1	1 unit	41K	
With 2 LEDs, yellow/green								
Slow-action contacts	1 NO + 2 NC	24 V DC	⊕ C	<b>3SE5132-1QV20</b>	1	1 unit	41K	
Slow-action contacts	1 NO + 2 NC	230 V AC	⊕ C	<b>3SE5132-3QV20</b>	1	1 unit	41K	



With 2 LEDs

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/68).


## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

3SE5, metal enclosures, enclosure width 31 mm according to EN 50047

### Selection and ordering data

#### Complete units

2 or 3 contacts · 5 directions of approach · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version <sup>1)</sup>	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
				<input type="checkbox"/>			
							
				Article No.	Price per PU		

#### Enclosure width 31 mm acc. to EN 50047



With separate  
actuator

##### 5 directions of approach

Slow-action contacts	1 NO + 1 NC --		⊖ A	<b>3SE5212-0RV40</b>	1	1 unit	41K
Slow-action contacts	1 NO + 2 NC --		⊖ B	<b>3SE5212-0QV40</b>	1	1 unit	41K



With 2 LEDs

##### With 2 LEDs, yellow/green

Slow-action contacts	1 NO + 1 NC 24 V DC		⊖ B	<b>3SE5212-1RV40</b>	1	1 unit	41K
Slow-action contacts	1 NO + 1 NC 230 V AC		⊖ B	<b>3SE5212-3RV40</b>	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊖ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/68).

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

3SE5, metal enclosures, enclosure width 40 mm according to EN 50041 / 56 mm


## Selection and ordering data

### Complete units

2 or 3 contacts · 5 directions of approach · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version <sup>1)</sup>	Contacts	LEDs	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
				<input type="checkbox"/>			
							
				Article No.	Price per PU		
<b>Enclosure width 40 mm acc. to EN 50041</b>							
	<b>5 directions of approach</b>						
	Slow-action contacts	1 NO + 2 NC --	⊕ ▶	<b>3SE5112-0QV10</b>	1	1 unit	41K
	<b>With increased minimum pull-out force 30 N</b>						
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5112-0QV10-1AA7</b>	1	1 unit	41K
	<b>With M12 connector socket, 5-pole (125 V, 4 A)</b>						
	Slow-action contacts	1 NO + 1 NC --	⊕ B	<b>3SE5114-0RV10-1AC5</b>	1	1 unit	41K
	Slow-action contacts	2 NC --	⊕ B	<b>3SE5114-0QV10-1AE1</b>	1	1 unit	41K
	<b>With connector socket, 6-pole + PE (250 V, 10 A)</b>						
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5115-0QV10-1AD1</b>	1	1 unit	41K
	<b>With 2 LEDs, yellow/green</b>						
	Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5112-1QV10</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5112-3QV10</b>	1	1 unit	41K
	<b>With M12 connector socket, 5-pole (125 V, 4 A) and 2 LEDs</b>						
	Slow-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5114-1RV10-1AF3</b>	1	1 unit	41K
	<b>With connector socket, 6-pole + PE (10 A), and 2 LEDs</b>						
	Slow-action contacts	1 NO + 1 NC 24 V DC	⊕ B	<b>3SE5115-1RV10-1AF2</b>	1	1 unit	41K
<b>Enclosure width 56 mm</b>							
	<b>5 directions of approach</b>						
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0QV10</b>	1	1 unit	41K
	<b>With increased minimum pull-out force 30 N</b>						
	Slow-action contacts	1 NO + 2 NC --	⊕ B	<b>3SE5122-0QV10-1AA7</b>	1	1 unit	41K
	<b>With 2 LEDs, yellow/green</b>						
	Slow-action contacts	1 NO + 2 NC 24 V DC	⊕ B	<b>3SE5122-1QV10</b>	1	1 unit	41K
	Slow-action contacts	1 NO + 2 NC 230 V AC	⊕ B	<b>3SE5122-3QV10</b>	1	1 unit	41K

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).






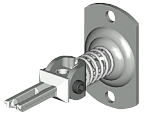






 Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/68).

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

## Accessories

### Selection and ordering data

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
<b>Actuators for 3SE51, 3SE52</b>						
 3SE5000-0AV01		<b>Standard actuators</b> • Length 75.6 mm	▶	<b>3SE5000-0AV01</b>	1	1 unit 41K
 3SE5000-0AV02		• With vertical fixing, length 53 mm	B	<b>3SE5000-0AV02</b>	1	1 unit 41K
 3SE5000-0AV03		• With transverse fixing, length 47 mm	B	<b>3SE5000-0AV03</b>	1	1 unit 41K
 3SE5000-0AW11		• With transverse fixing, plastic <sup>1)</sup> , length 40 mm	B	<b>3SE5000-0AW11</b>	1	1 unit 41K
 3SE5000-0AV06		<b>Radius actuators,</b> length 51 mm • Direction of approach from the left • Direction of approach from the right	A ▶	<b>3SE5000-0AV04</b> <b>3SE5000-0AV06</b>	1 1	1 unit 41K 1 unit 41K
 3SE5000-0AV05-1AA6		<b>Universal radius actuators</b> • Length 77 mm • Length 77 mm, tab rotated 90°	B B	<b>3SE5000-0AV05</b> <b>3SE5000-0AV05-1AA6</b>	1 1	1 unit 41K 1 unit 41K
 3SE5000-0AV07		<b>Universal radius actuators, heavy duty</b> • Length 67 mm • Length 77 mm	A B	<b>3SE5000-0AV07-1AK2</b> <b>3SE5000-0AV07</b>	1 1	1 unit 41K 1 unit 41K
<b>Optional accessories for 3SE5</b>						
 3SE5000-0AV08-1AA2		<b>Protective caps</b> made of black rubber for the actuator head, to protect the actuator openings from contamination (Only for enclosure width 40 or 56 mm)	C	<b>3SE5000-0AV08-1AA2</b>	1	1 unit 41K
 3SE5000-0AV08-1AA3		<b>Blocking inserts</b> , high-grade steel, for actuator head, for up to eight padlocks	B	<b>3SE5000-0AV08-1AA3</b>	1	1 unit 41K
<b>Connections for 3SE5, 3SE2</b>						
 3SY3127		<b>Connector sockets (4-pole), M12, fixed for M20 x 1.5</b> For max. 250 V, 4 A With 0.25 mm <sup>2</sup> connecting cable, plastic, degree of protection IP67, ambient temperature -40 to +85 °C	B	<b>3SY3127</b>	1	1 unit 41K
 3SY3128		<b>Connector sockets (5-pole), M12, fixed for M20 x 1.5</b> For max. 125 V, 4 A With 0.25 mm <sup>2</sup> connecting cable, plastic, degree of protection IP67, ambient temperature -40 to +85 °C	B	<b>3SY3128</b>	1	1 unit 41K
 3SX9926		<b>Cable glands M20 x 1.5</b> Plastic	A	<b>3SX9926</b>	1	1 unit 41K

<sup>1)</sup> Not suitable for safety switches with tumbler.





# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Separate Actuator

3SE2, plastic enclosures, enclosure width 52 mm

## Selection and ordering data

### Complete units

1 or 3 contacts · 3 directions of approach · Degree of protection IP67

Version	Operation	DT	Complete units	PU (UNIT, SET, M)	PS*	PG		
			Article No.	Price per PU				
<b>Molded-plastic enclosures in special width of 52 mm</b>								
	<b>Lateral and front-end actuation<sup>1)</sup></b>	6 mm stroke						
	• With M20 × 1.5 connecting thread							
	- Slow-action contacts 1 NO + 2 NC	Holding force 5 N	⊕ ▶	<b>3SE2243-0XX40</b>	1	1 unit	41K	
		Holding force 30 N	⊕ ▶	<b>3SE2243-0XX</b>	1	1 unit	41K	
		With automatic ejection	⊕ ▶	<b>3SE2243-0XX30</b>	1	1 unit	41K	
	- Slow-action contacts 1 NC	Holding force 5 N	⊕ ▶	<b>3SE2257-6XX40</b>	1	1 unit	41K	
		Holding force 30 N	⊕ ▶	<b>3SE2257-6XX</b>	1	1 unit	41K	
		With automatic ejection	⊕ B	<b>3SE2257-6XX30</b>	1	1 unit	41K	
	• With M16 × 1.5 connecting thread							
	- Slow-action contacts 1 NO + 2 NC	Holding force 5 N	⊕ B	<b>3SE2243-0XX48</b>	1	1 unit	41K	
		Holding force 30 N	⊕ A	<b>3SE2243-0XX18</b>	1	1 unit	41K	
		With automatic ejection	⊕ C	<b>3SE2243-0XX38</b>	1	1 unit	41K	
- Slow-action contacts 1 NC	Holding force 5 N	⊕ B	<b>3SE2257-6XX48</b>	1	1 unit	41K		
	Holding force 30 N	⊕ C	<b>3SE2257-6XX18</b>	1	1 unit	41K		
	With automatic ejection	⊕ C	<b>3SE2257-6XX38</b>	1	1 unit	41K		
<b>Accessories</b>								
	<b>Actuators</b>							
	• Standard actuators ( $r_{\min} = 150$ mm), length 28 mm		A	<b>3SX3218</b>	1	1 unit	41K	
		• Universal radius actuator ( $r_{\min} = 45$ mm), length 34 mm		A	<b>3SX3228</b>	1	1 unit	41K
		• Radius actuator, adjustable radius, length 34 mm		D	<b>3SX3256</b>	1	1 unit	41K
		• Ball locating, force adjustable up to 100 N by 2 screws, length 28 mm		A	<b>3SX3217</b>	1	1 unit	41K
	• Actuator, length 34 mm, with dust protection and slit cover		D	<b>3SX3234</b>	1	1 unit	41K	
	<b>Accessories</b>							
	• Slit cover (1 set = 3 units)		D	<b>3SX3233</b>	1	3 unit	41K	

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator.

## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Tumbler

### General data

#### Overview

The safety switches with tumbler are exceptional safety-related devices which prevent an unforeseen or intentional opening of protective doors, protective grilles or other covers as long as a dangerous situation is present (e.g. follow-on motion of the switched-off machine).



3SE5 safety switch with tumbler

The safety switches with tumbler comprise a switch part with electromechanical tumbler and a mechanical actuator which has to be ordered separately.

They are rugged protective devices that enable the greatest possible safety for man and machine.

The safety switches with tumbler are offered in plastic or metal enclosures.

Dimensions (W × H × D): 54 mm × 185 mm × 43.5 mm.

#### Operation

The actuator head is included in the scope of supply. For actuation from four directions it can be adjusted through  $4 \times 90^\circ$ . The switches can also be approached from above.

The actuators are not included in the scope of supply of the safety switches and must be ordered separately from a choice of different versions to suit the application (see page 12/77).

Actuation data:

- Maximum actuating speed  $v_{\max} = 1.5 \text{ m/s}$
- Minimum actuating speed  $v_{\min} = 0.4 \text{ mm/s}$
- Minimum force in the direction of actuation  $F_{\min} = 30 \text{ N}$

The actuator is encoded. Simple overruling by hand or auxiliary devices is impossible.

#### Radius actuators

The safety switches with radius actuators are particularly suitable for rotary protective devices. The movable actuation key allows even small radii to be approached. Damage to the switch and the actuator due to inaccurate approach is prevented.

#### Locking devices

A high-grade steel locking device for attaching up to eight padlocks is available for even more safety (see page 12/77).

#### Dust protection

A rubber cap to protect the actuator entry of the actuator head from contamination is available for operation in dusty environments (see page 12/77).

#### Tumbler

There are two versions for interlocking the actuator:

- Spring-actuated lock (closed-circuit principle) with various release mechanisms
- Solenoid-locked (open-circuit principle)

The spring-actuated lock switch is equipped with an auxiliary release for emergency situations or setup mode. Available as options:

- Escape release or
- Emergency release

#### Contact blocks

The safety switches with tumbler have one switching block each for:




- Monitoring the actuator or the position of the protective door
- Monitoring the position of the solenoid

The mechanical design of the switches corresponds to the requirements of the fail-safe principle according to EN 1088.

#### Optical signaling equipment

The safety switches with tumbler are available with an optional optical signaling device.

The signaling device indicates the switch position of the lock and the protective device optically by means of 2 LEDs on the front.

Protective device	Tumbler	Display	Meaning
Closed	Released		Actuator to be pulled
Closed	Locked		Actuator locked
Open	Released		Actuator pulled

Internal wiring:

- The yellow LED is pre-wired to the magnetic monitoring NO contact.
- The green LED is pre-wired to the actuator monitoring NC contact.
- LED ground is pre-wired to the ground of the solenoid.

#### Note:

- The operational voltage must be connected to the corresponding contacts by the customer.
- This voltage for the LEDs must match the operational voltage of the solenoid (same potential).

## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Tumbler

### General data

#### Benefits

The new generation of 3SE53 safety switches offers

- More safety through higher locking forces:
  - 1300 N with plastic enclosure
  - 2600 N with metal enclosure
- Various release mechanisms: Lock release, escape release and emergency release
- Two contact blocks each with three contacts as standard equipment, hence fewer versions needed
- Same dimensions for all enclosure versions: Plastic, metal or with integrated ASIsafe
- An extensive range of actuators
- An optional LED status display 24 V DC, 115 V AC or 230 V AC for all switch versions
- Devices with ASIsafe electronics integrated in the enclosure (see page 12/96)
- **NEW:** 3SE5322-1S.21-1AG4 series with high IP69K degree of protection, cover with foamed seal

#### Application

The safety switches with tumbler are exceptional safety-related devices which prevent an unforeseen or intentional opening of protective doors, protective grilles or other covers as long as a dangerous situation is present (e.g. follow-on motion of the switched-off machine).

The safety position switches with tumbler have the following functions:

- Enabling the machine or process with closed and locked protective device
- Locking the machine or process with opened protective device
- Position monitoring of the protective device and tumbler

#### Standards

The switches comply with the standards IEC 60947-1 (Low-Voltage Switchgear and Controlgear, General) and IEC 60947-5-1 (Electromechanical Control Circuit Devices).

The mechanical design of the switch corresponds to the requirements of the fail-safe principle according to EN 1088 and EN ISO 14119.

#### Approvals

The switches are approved for use with locking devices according to EN 1088, EN ISO 14119 and EN 292, Parts 1 and 2.

Category 3 according to EN ISO 13849-1 can be attained with a safety switch with tumbler if the corresponding fail-safe evaluation units are selected and correctly installed, e.g. the 3SK1 or 3TK28 safety relays or matching units from the ASIsafe, SIMATIC or SINUMERIK product ranges.

Category 4 can be achieved when using an additional 3SE5 safety switch.

These switches are approved according to UL 508, UL 50 and UL 746-C.

#### Tumbler

The separate actuator operates in a similar way to the coding of a key and protects against manipulation. It transmits the locking force to the protective device and helps to monitor its position.

There are two versions of locking:

#### Spring-actuated lock (closed-circuit principle)

- In the standard version, the safety switch locks by means of spring force and releases by means of electromagnetic force. In the case of voltage failure, it reliably prevents the protective device from opening when machine parts are still moving.
- The switch is equipped with an auxiliary release for emergency situations or setup mode.
- An auxiliary release which can be secured with a lock to prevent misuse is available as a version.

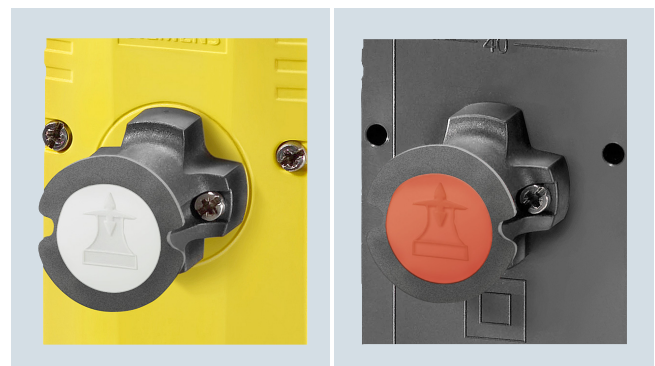


Auxiliary release

Auxiliary release with lock

The 3SE53 safety switches are also available with an escape release or emergency release.

- Personnel working inside the hazard zone can use the escape release feature to manually release the tumbler without tools from the escape side (hazardous area side) so that they can exit the hazard area. An intentional act (in this case pulling the gray actuator) is required to release the locking mechanism and restore the normal operating state.
- The emergency release enables someone in an emergency situation to manually release the tumbler without tools from the access side (outside the hazardous area). Releasing the lock and restoring the normal operating state must require effort which is comparable to repair activity, in this case disassembly of the red actuator and resetting the mechanical lock.



Escape release from the front

Emergency release from the back

#### Solenoid-locked (open-circuit principle)

- The second version offers locking by means of electromagnetic force and release by means of spring force. This version has an advantage when it is necessary to quickly access the machine after a power failure occurs, or in the case of very short coasting times.

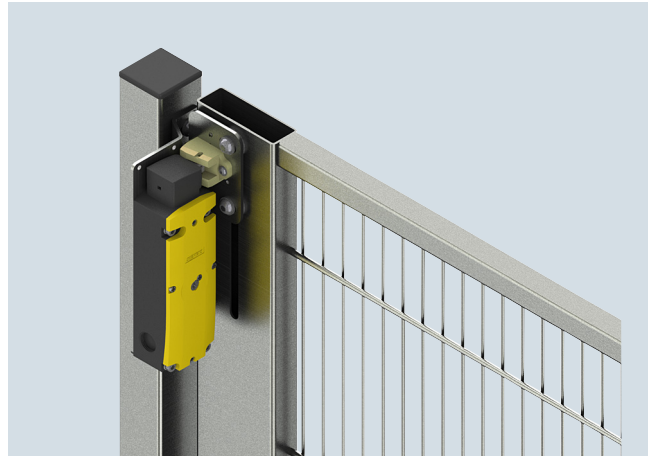
## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Tumbler

### General data

#### Examples of door interlocking



X-Lock door interlocking from Axelent



Door interlocking from Brühl

For the addresses of the door interlock manufacturers,  
see Chapter 16, "Appendix" → "External Partners".

### Technical specifications

Type	3SE5322	3SE5312	
<b>General data</b>			
<b>Standards</b>	IEC 60947-5-1, EN 60947-5-1		
<b>Rated insulation voltage <math>U_i</math></b>	V	250	
<b>Degree of pollution</b> acc. to IEC 60664-1	Class 3		
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	kV	4	
<b>Rated operational voltage <math>U_e</math></b>			
• DC	V	24	
• 50/60 Hz AC	V	230	
<b>Conventional thermal current <math>I_{th}</math></b>	A	6	
<b>Rated operational current <math>I_e</math></b>			
• With alternating current 50/60 Hz	$I_e$ / AC-15 or B300		
- At 24 V	A	6	
- At 120 V	A	3	
- At 230 V	A	1.5	
• For direct current	$I_e$ / DC-13 or Q300		
- At 24 V	A	3	
- At 125 V	A	0.55	
- At 250 V	A	0.27	
<b>Magnet</b>			
• Locking force, max.	N	1 300	2 600
• Locking force according to GS-ET 19	N	1 000	2 000
• Power consumption at $U_c$	W	3.5	
<b>Short-circuit protection<sup>1)</sup></b>			
• With DIAZED fuse links, operational class gG	A	6	
• With miniature circuit breaker, Char. C	A	0.5	
<b>Mechanical endurance</b>	1 × 10 <sup>6</sup> operating cycles		
<b>Electrical endurance</b>			
• With 3RH.1, 3RT contactors in size S00, S0	1 × 10 <sup>6</sup> operating cycles		
• For utilization category AC-15 with interrupting of $I_e$ / AC-15 at 230 V	100 000 operating cycles		
• With utilization category DC-12/DC-13	For direct current depending on the loading of the switch		
<b>Switching frequency</b>	6000 operating cycles/h		
With 3RH.1, 3RT contactors in size S00, S0			
<b>Shock resistance</b> acc. to IEC 60068-2-27	30 g / 11 ms		

<sup>1)</sup> Without any welds according to IEC 60947-5-1.

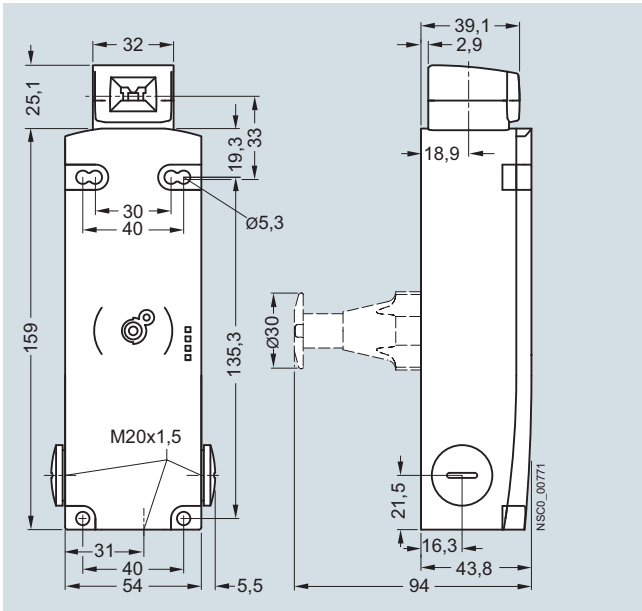


# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Tumbler

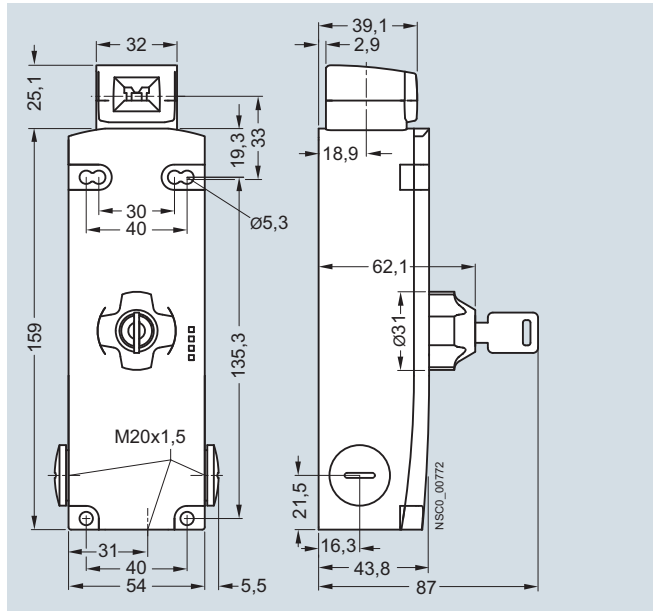
General data

## 3SE53 configuration

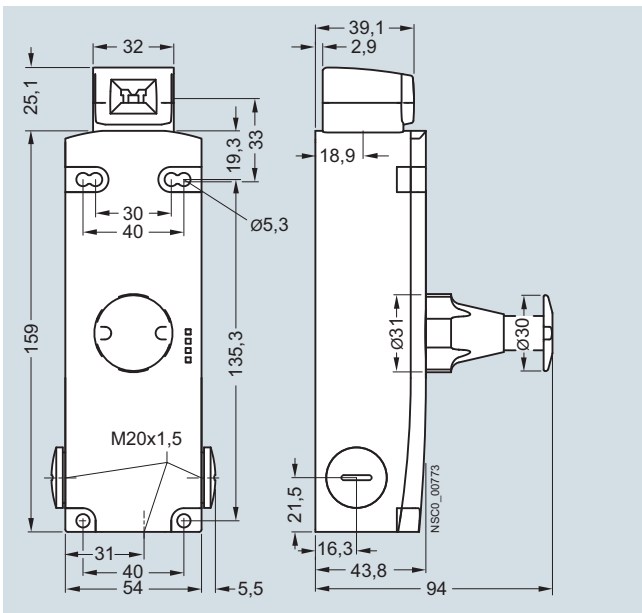
**Spring-actuated lock, with auxiliary release**  
3SE5322-.SD2., 3SE5322-.SG2., 3SE5322-.SJ2.,  
3SE5312-.SD1., 3SE5312-.SG1., 3SE5312-.SJ1.,



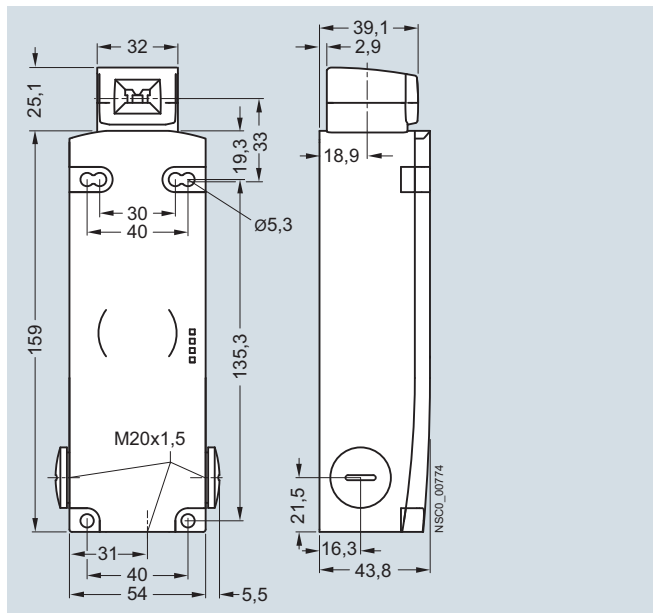
**Spring-actuated lock, with auxiliary release with lock**  
3SE5322-.SE2.,  
3SE5312-.SE1.



**Spring-actuated lock, with escape release**  
3SE5322-.SF2.,  
3SE5312-.SF1.



**Solenoid lock**  
3SE5322-.SB2.,  
3SE5312-.SB1.



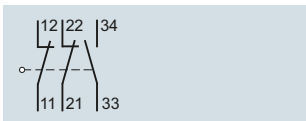
**Note:**

The plastic enclosures have knock-out openings behind the connecting thread; and are supplied without protective caps because of this.

**Circuit diagrams**

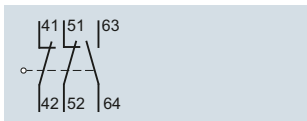
**Monitoring the actuator**

Slow-action contacts 1 NO + 2 NC



**Monitoring the solenoid**

Slow-action contacts 1 NO + 2 NC



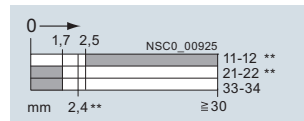
Actuators, see pages 12/61 and 12/62.

Actuation, see page 12/62.

**Operating travel**

**Monitoring the actuator**

Slow-action contacts 1 NO + 2 NC







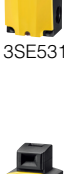


# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches

## With Tumbler

3SE5, plastic enclosures with locking force greater than 1 200 N

### Selection and ordering data

6 slow-action contacts · 5 directions of approach · Degree of protection IP66/IP67 · Cable entry 3 × M20 × 1.5 · Locking force 1 300 N

Tumbler <sup>1)</sup>	LEDs	Solenoid, rated operational voltage	DT	Complete units Position monitoring: Actuators: 1 NO + 2 NC Solenoid: 1 NO + 2 NC	PU (UNIT, SET, M)	PS*	PG		
				Configurator					
				Article No.	Price per PU				
<b>1 300 N locking force · Enclosure width 54 mm</b>									
<b>Spring-actuated locks</b>									
	• With auxiliary release	--	24 DC	⊕ ▶	<b>3SE5322-0SD21</b>	1	1 unit	41K	
		--	115 AC	⊕ B	<b>3SE5322-0SD22</b>	1	1 unit	41K	
		--	230 AC	⊕ B	<b>3SE5322-0SD23</b>	1	1 unit	41K	
		Yellow/Green	24 DC	⊕ A	<b>3SE5322-1SD21</b>	1	1 unit	41K	
		Yellow/Green	115 AC	⊕ B	<b>3SE5322-2SD22</b>	1	1 unit	41K	
		Yellow/Green	230 AC	⊕ B	<b>3SE5322-3SD23</b>	1	1 unit	41K	
	• With auxiliary release with lock	--	24 DC	⊕ B	<b>3SE5322-0SE21</b>	1	1 unit	41K	
		--	115 AC	⊕ B	<b>3SE5322-0SE22</b>	1	1 unit	41K	
		--	230 AC	⊕ B	<b>3SE5322-0SE23</b>	1	1 unit	41K	
		Yellow/Green	24 DC	⊕ B	<b>3SE5322-1SE21</b>	1	1 unit	41K	
		Yellow/Green	115 AC	⊕ B	<b>3SE5322-2SE22</b>	1	1 unit	41K	
		Yellow/Green	230 AC	⊕ B	<b>3SE5322-3SE23</b>	1	1 unit	41K	
	• With escape release from the front	--	24 DC	⊕ B	<b>3SE5322-0SF21</b>	1	1 unit	41K	
		--	115 AC	⊕ B	<b>3SE5322-0SF22</b>	1	1 unit	41K	
		--	230 AC	⊕ B	<b>3SE5322-0SF23</b>	1	1 unit	41K	
		Yellow/Green	24 DC	⊕ B	<b>3SE5322-1SF21</b>	1	1 unit	41K	
		Yellow/Green	115 AC	⊕ B	<b>3SE5322-2SF22</b>	1	1 unit	41K	
		Yellow/Green	230 AC	⊕ B	<b>3SE5322-3SF23</b>	1	1 unit	41K	
	• With escape release from the front and emergency release from the back	--	24 DC	⊕ B	<b>3SE5322-0SL21</b>	1	1 unit	41K	
		--	24 DC	⊕ B	<b>3SE5322-0SL21-1AJ0</b>	1	1 unit	41K	
		- For ambient temperature down to -40 °C							
	• With escape release from the back and auxiliary release from the front	--	24 DC	⊕ B	<b>3SE5322-0SG21</b>	1	1 unit	41K	
		--	115 AC	⊕ B	<b>3SE5322-0SG22</b>	1	1 unit	41K	
		--	230 AC	⊕ B	<b>3SE5322-0SG23</b>	1	1 unit	41K	
		Yellow/Green	24 DC	⊕ B	<b>3SE5322-1SG21</b>	1	1 unit	41K	
		Yellow/Green	115 AC	⊕ B	<b>3SE5322-2SG22</b>	1	1 unit	41K	
		Yellow/Green	230 AC	⊕ B	<b>3SE5322-3SG23</b>	1	1 unit	41K	
	• With escape release from the back and auxiliary release with lock from the front	--	24 DC	⊕ B	<b>3SE5322-0SH21</b>	1	1 unit	41K	
		• With emergency release from the back and auxiliary release from the front	--	24 DC	⊕ B	<b>3SE5322-0SJ21</b>	1	1 unit	41K
			--	115 AC	⊕ B	<b>3SE5322-0SJ22</b>	1	1 unit	41K
			--	230 AC	⊕ B	<b>3SE5322-0SJ23</b>	1	1 unit	41K
		Yellow/Green	24 DC	⊕ B	<b>3SE5322-1SJ21</b>	1	1 unit	41K	
		Yellow/Green	115 AC	⊕ B	<b>3SE5322-2SJ22</b>	1	1 unit	41K	
Yellow/Green	230 AC	⊕ B	<b>3SE5322-3SJ23</b>	1	1 unit	41K			
	<b>Solenoid locks</b>	--	24 DC	⊕ ▶	<b>3SE5322-0SB21</b>	1	1 unit	41K	
		--	115 AC	⊕ B	<b>3SE5322-0SB22</b>	1	1 unit	41K	
		--	230 AC	⊕ B	<b>3SE5322-0SB23</b>	1	1 unit	41K	
		Yellow/Green	24 DC	⊕ A	<b>3SE5322-1SB21</b>	1	1 unit	41K	
		Yellow/Green	115 AC	⊕ B	<b>3SE5322-2SB22</b>	1	1 unit	41K	
		Yellow/Green	230 AC	⊕ B	<b>3SE5322-3SB23</b>	1	1 unit	41K	

⚙ For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/77).

## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Tumbler

3SE5, plastic enclosures with locking force greater than 1 200 N

- 6 slow-action contacts · 5 directions of approach · **Degree of protection IP69K** · Cable entry 3 × M20 × 1.5 · Locking force 1 300 N  
 • With foamed seal and special cover

Tumbler <sup>1)</sup>	LEDs	Solenoid, rated operational voltage	DT	<b>Complete units</b> Position monitoring: Actuators: 1 NO + 2 NC Solenoid: 1 NO + 2 NC	<input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
				<b>Configurator</b>				
				Article No.	Price per PU			

V

1 300 N locking force · Enclosure width 54 mm ·  
Degree of protection IP69K **NEW**

Spring-actuated locks									
	• With auxiliary release	Yellow/Green	24 DC		C	<b>3SE5322-1SD21-1AG4</b>	1	1 unit	41K
3SE5312-1SD2.									
	• With auxiliary release with lock	Yellow/Green	24 DC		C	<b>3SE5322-1SE21-1AG4</b>	1	1 unit	41K
3SE5312-1SE2.									
	• With escape release from the front	Yellow/Green	24 DC		C	<b>3SE5322-1SF21-1AG4</b>	1	1 unit	41K
3SE5312-1SF2.									
	• With escape release from the back and auxiliary release from the front	Yellow/Green	24 DC		B	<b>3SE5322-1SG21-1AG4</b>	1	1 unit	41K
3SE5312-1SG2.									

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/77).

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches

## With Tumbler

3SE5, metal enclosures with locking force greater than 2 000 N

### Selection and ordering data

6 slow-action contacts · 5 directions of approach · Degree of protection IP66/IP67 · Cable entry 3 × M20 × 1.5 · Locking force 2 600 N

Tumbler <sup>1)</sup>	LEDs	Solenoid, rated operational voltage	DT	Complete units Position monitoring: Actuators: 1 NO + 2 NC Solenoid: 1 NO + 2 NC	PU (UNIT, SET, M)	PS*	PG
				<b>Configurator</b>			
				Article No.	Price per PU		
<b>2 600 N locking force · Enclosure width 54 mm</b>							
<b>Spring-actuated locks</b>							
	• With auxiliary release	--	24 DC	⊕ ▶	<b>3SE5312-0SD11</b>	1	1 unit 41K
		--	115 AC	⊕ B	<b>3SE5312-0SD12</b>	1	1 unit 41K
		--	230 AC	⊕ B	<b>3SE5312-0SD13</b>	1	1 unit 41K
		Yellow/Green	24 DC	⊕ B	<b>3SE5312-1SD11</b>	1	1 unit 41K
		Yellow/Green	115 AC	⊕ B	<b>3SE5312-2SD12</b>	1	1 unit 41K
		Yellow/Green	230 AC	⊕ B	<b>3SE5312-3SD13</b>	1	1 unit 41K
	• With auxiliary release with lock	--	24 DC	⊕ B	<b>3SE5312-0SE11</b>	1	1 unit 41K
		--	115 AC	⊕ B	<b>3SE5312-0SE12</b>	1	1 unit 41K
		--	230 AC	⊕ B	<b>3SE5312-0SE13</b>	1	1 unit 41K
		Yellow/Green	24 DC	⊕ B	<b>3SE5312-1SE11</b>	1	1 unit 41K
		Yellow/Green	115 AC	⊕ B	<b>3SE5312-2SE12</b>	1	1 unit 41K
		Yellow/Green	230 AC	⊕ B	<b>3SE5312-3SE13</b>	1	1 unit 41K
	• With escape release from the front	--	24 DC	⊕ B	<b>3SE5312-0SF11</b>	1	1 unit 41K
		--	115 AC	⊕ B	<b>3SE5312-0SF12</b>	1	1 unit 41K
		--	230 AC	⊕ B	<b>3SE5312-0SF13</b>	1	1 unit 41K
		Yellow/Green	24 DC	⊕ B	<b>3SE5312-1SF11</b>	1	1 unit 41K
		Yellow/Green	115 AC	⊕ B	<b>3SE5312-2SF12</b>	1	1 unit 41K
		Yellow/Green	230 AC	⊕ B	<b>3SE5312-3SF13</b>	1	1 unit 41K
	• With escape release from the back and auxiliary release from the front	--	24 DC	⊕ B	<b>3SE5312-0SG11</b>	1	1 unit 41K
		--	115 AC	⊕ B	<b>3SE5312-0SG12</b>	1	1 unit 41K
		--	230 AC	⊕ B	<b>3SE5312-0SG13</b>	1	1 unit 41K
		Yellow/Green	24 DC	⊕ B	<b>3SE5312-1SG11</b>	1	1 unit 41K
		Yellow/Green	115 AC	⊕ B	<b>3SE5312-2SG12</b>	1	1 unit 41K
		Yellow/Green	230 AC	⊕ B	<b>3SE5312-3SG13</b>	1	1 unit 41K
	• With escape release from the back and auxiliary release from the front	--	24 DC	⊕ B	<b>3SE5312-0SH11</b>	1	1 unit 41K
		--	115 AC	⊕ B	<b>3SE5312-0SJ11</b>	1	1 unit 41K
		--	115 AC	⊕ B	<b>3SE5312-0SJ12</b>	1	1 unit 41K
		--	230 AC	⊕ B	<b>3SE5312-0SJ13</b>	1	1 unit 41K
		Yellow/Green	24 DC	⊕ B	<b>3SE5312-1SJ11</b>	1	1 unit 41K
		Yellow/Green	115 AC	⊕ B	<b>3SE5312-2SJ12</b>	1	1 unit 41K
	<b>Solenoid locks</b>	--	24 DC	⊕ ▶	<b>3SE5312-0SB11</b>	1	1 unit 41K
		--	115 AC	⊕ B	<b>3SE5312-0SB12</b>	1	1 unit 41K
		--	230 AC	⊕ B	<b>3SE5312-0SB13</b>	1	1 unit 41K
		Yellow/Green	24 DC	⊕ B	<b>3SE5312-1SB11</b>	1	1 unit 41K
		Yellow/Green	115 AC	⊕ B	<b>3SE5312-2SB12</b>	1	1 unit 41K
		Yellow/Green	230 AC	⊕ B	<b>3SE5312-3SB13</b>	1	1 unit 41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).












⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/77).

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches With Tumbler

## Accessories

### Selection and ordering data

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
<b>Actuators for 3SE53</b>						
 3SE5000-0AV01		▶ <b>3SE5000-0AV01</b>		1	1 unit	41K
 3SE5000-0AV02		B <b>3SE5000-0AV02</b>		1	1 unit	41K
 3SE5000-0AV03		B <b>3SE5000-0AV03</b>		1	1 unit	41K
<b>Radius actuators, length 51 mm</b>						
 3SE5000-0AV04		A <b>3SE5000-0AV04</b>		1	1 unit	41K
		▶ <b>3SE5000-0AV06</b>		1	1 unit	41K
<b>Universal radius actuators</b>						
 3SE5000-0AV05-1AA6		B <b>3SE5000-0AV05</b>		1	1 unit	41K
		B <b>3SE5000-0AV05-1AA6</b>		1	1 unit	41K
<b>Universal radius actuators, heavy duty</b>						
 3SE5000-0AV07		A <b>3SE5000-0AV07-1AK2</b>		1	1 unit	41K
		B <b>3SE5000-0AV07</b>		1	1 unit	41K
<b>Optional accessories for 3SE5</b>						
 3SE5000-0AV08-1AA2		C <b>3SE5000-0AV08-1AA2</b>		1	1 unit	41K
 3SE5000-0AV08-1AA3		B <b>3SE5000-0AV08-1AA3</b>		1	1 unit	41K
<b>Spare parts for 3SE53</b>						
<b>Spare keys</b>		B <b>3SX5100-1F</b>		1	1 unit	41K
<b>Connection for 3SE5</b>						
 3SY3127		B <b>3SY3127</b>		1	1 unit	41K
 3SY3128		B <b>3SY3128</b>		1	1 unit	41K
 3SX9926		A <b>3SX9926</b>		1	1 unit	41K

## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches Hinge Switches

### General data

#### Overview

3SE5 hinge switches have the same enclosures as the 3SE5 position switches (modular system).



Hinge switches

#### Design

##### Enclosure sizes

The 3SE5 switches are available as complete units in two enclosure sizes:

- Plastic enclosures according to EN 50047, 31 mm wide, IP65, 1 cable entry
- Metal enclosures according to EN 50047, 31 mm wide, IP66/IP67, 1 cable entry
- Plastic and metal enclosures according to EN 50041, 40 mm wide, IP66/IP67, 1 cable entry

##### Enclosure versions

Various basic versions can be selected for the enclosures:

- Available with two or three-pole switching elements designed as snap-action contacts
- AS-Interface version with integrated ASIsafe electronics for all enclosure designs (see page 12/99)

For a description of the basic switches, see page 12/4.

##### Operating mechanism

The hinge switches are provided for mounting on hinges. The actuator head is included in the scope of supply. There are two versions:

- Operating mechanism with hollow shaft, inner diameter 8 mm, outer 12 mm
- Operating mechanism with solid shaft, diameter 10 mm

#### 3SE2283 hinge switches

The 3SE2283 hinge switches with integrated hinge are available in a special design. They are particularly suitable for use in machine doors and flaps.

#### Benefits

The 3SE5 hinge switches differ from the previous series through the following new characteristics:

- All actuators can be turned around the axis in increments of 22.5° (see picture, page 12/5).
- The new three-pole contact block 1 NO + 2 NC is available for all enclosure sizes (see picture, page 12/5).
- The plastic enclosure with a width of 31 mm has simple and fast wiring equipment which makes it possible to save approx. 20 to 25 % of the time when connecting (see picture, page 12/5).
- The ASIsafe electronic component is integrated in the enclosure for the versions with AS-Interface connection (see page 12/84); an additional adapter is not required.

#### Application

The hinge switches are used in those areas where the position of swiveling protective devices such as doors or flaps must be monitored. With these switches, the position of the doors and hinge switches is converted into electric signals. The switches allow shutdown and signaling without delay in the event of a small opening angle through the snap-action contacts with an operating angle of 10°.

Devices are available with enclosure versions to suit the particular ambient conditions. Different control tasks can be performed with the best contact blocks suited for the particular purpose. Dimensions and fixing points of the enclosures are in accordance with EN 50041 or EN 50047 standards.

The devices are suitable for use in any climate.

#### Standards


IEC 60947-5-1 or EN 60947-5-1.


The protective measure of "total insulation" by the molded-plastic enclosure is guaranteed by the use of molded-plastic screw glands.

#### Safety position switches

For controls according to IEC 60204-1 or EN 60204-1 the devices can be used as a safety position switch. To secure position switches against changes in their position, keyed techniques must be employed on installation.

#### Safety circuits

IEC 60947-5-1 and EN 60947-5-1 require positive opening of the NC contacts, i.e. for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked according to IEC 60947-5-1 with the symbol .

Category 4 according to EN ISO 13849-1 can be attained with the 3SE5 hinge switches with  if the corresponding fail-safe evaluation units are selected and correctly installed, e.g. the 3TK28 or 3SK1 safety relays or matching devices from the ASIsafe, SIMATIC or SINUMERIK product ranges.

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches Hinge Switches

General data

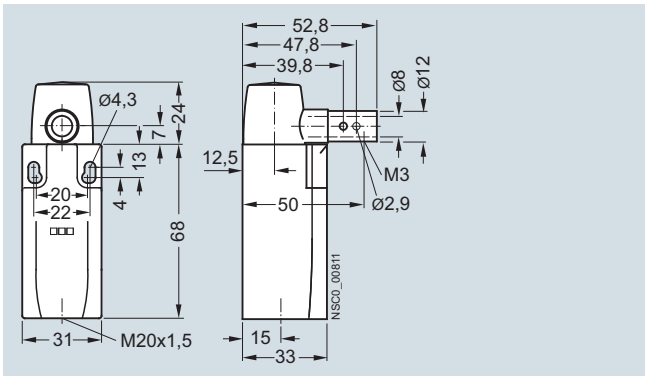
## Technical specifications

The technical specifications are the same as for the standard switches (see page 12/8).

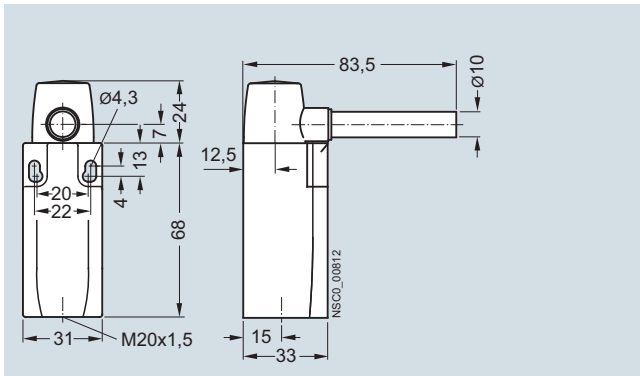
### Configuration

Enclosure width 31 mm

**With hollow shaft**  
3SE5212-0.U21, 3SE5232-0.U21

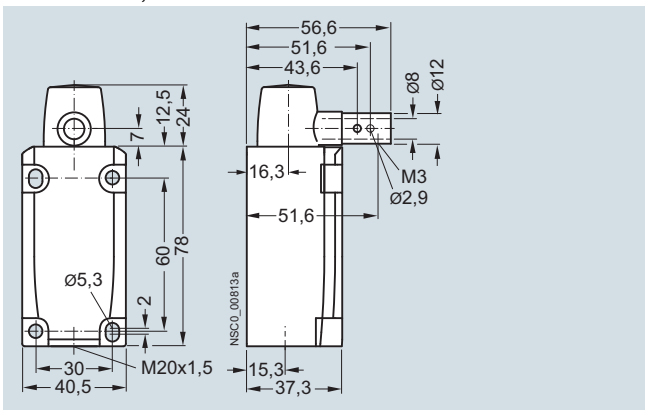


**With solid shaft**  
3SE5212-0.U22, 3SE5232-0.U22

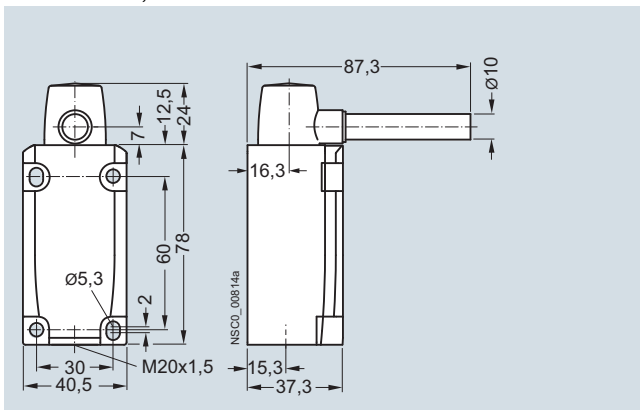


Enclosure width 40 mm

**With hollow shaft**  
3SE5112-0.U21, 3SE5132-0.U21



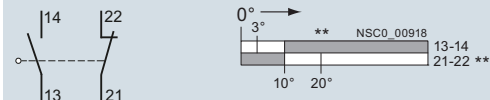
**With solid shaft**  
3SE5112-0.U22, 3SE5132-0.U22



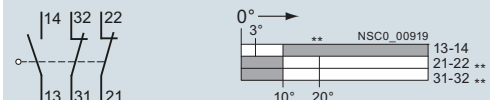
### Operating travel of the shaft

Snap-action contacts

**1 NO + 1 NC, Ident. No. 11**



**1 NO + 2 NC, Ident. No. 12**



■ Contact closed  
□ Contact open

\*\* Positive opening point

# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches


## Hinge Switches

3SE5, plastic enclosures, enclosure widths 31 mm / 40 mm

### Selection and ordering data

#### Complete units

2 or 3 contacts · Degree of protection IP65 (31 mm) or IP67/IP68 (40 mm) · Cable entry M20 × 1.5

Version	Snap-action contacts	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
			<input type="checkbox"/>			
						
			Article No.	Price per PU		

#### Plastic enclosures · Enclosure width 31 mm acc. to EN 50047



With hollow shaft

##### With hollow shaft

Operating angle 10°	1 NO + 1 NC <sup>1)</sup>	⊕ B	<b>3SE5232-0HU21</b>	1	1 unit	41K
Operating angle 10°	1 NO + 2 NC	⊕ B	<b>3SE5232-0LU21</b>	1	1 unit	41K



With solid shaft

##### With solid shaft

Operating angle 10°	1 NO + 1 NC <sup>1)</sup>	⊕ B	<b>3SE5232-0HU22</b>	1	1 unit	41K
Operating angle 10°	1 NO + 2 NC	⊕ B	<b>3SE5232-0LU22</b>	1	1 unit	41K

#### Plastic enclosures · Enclosure width 40 mm acc. to EN 50041



With hollow shaft

##### With hollow shaft

Operating angle 10°	1 NO + 2 NC	⊕ B	<b>3SE5132-0LU21</b>	1	1 unit	41K
---------------------	-------------	-----	----------------------	---	--------	-----



With solid shaft

##### With solid shaft

Operating angle 10°	1 NO + 2 NC	⊕ B	<b>3SE5132-0LU22</b>	1	1 unit	41K
---------------------	-------------	-----	----------------------	---	--------	-----

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Contact blocks permanently integrated, replacement not available.

#### Spare parts

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
---------	----	-------------	--------------	-------------------	-----	----

#### Actuator heads



With hollow shaft

##### With hollow shaft

Operating angle 10°	B	<b>3SE5000-0AU21</b>		1	1 unit	41K
---------------------	---	----------------------	--	---	--------	-----



With solid shaft

##### With solid shaft

Operating angle 10°	B	<b>3SE5000-0AU22</b>		1	1 unit	41K
---------------------	---	----------------------	--	---	--------	-----

#### Note:

The respective actuators are included in the scope of supply for the complete units.




# SIRIUS 3SE5, 3SE2 Mechanical Safety Switches Hinge Switches

3SE5, metal enclosures, enclosure width 31 mm / 40 mm



## Selection and ordering data

### Complete units



3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Snap-action contacts	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
			<input type="checkbox"/>			
						
			Article No.	Price per PU		

### Metal enclosures · Enclosure width 31 mm according to EN 50047

	<b>With hollow shaft</b>					
	Operating angle 10°	1 NO + 2 NC	⊕ B	<b>3SE5212-0LU21</b>	1	1 unit
	<b>With solid shaft</b>					
	Operating angle 10°	1 NO + 2 NC	⊕ B	<b>3SE5212-0LU22</b>	1	1 unit

### Metal enclosures · Enclosure width 40 mm according to EN 50041

	<b>With hollow shaft</b>					
	Operating angle 10°	1 NO + 2 NC	⊕ B	<b>3SE5112-0LU21</b>	1	1 unit
	<b>With solid shaft</b>					
	Operating angle 10°	1 NO + 2 NC	⊕ B	<b>3SE5112-0LU22</b>	1	1 unit



 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

### Spare parts

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
---------	----	-------------	--------------	-------------------	-----	----

### Actuator heads

	<b>With hollow shaft</b>					
	Operating angle 10°	B	<b>3SE5000-0AU21</b>	1	1 unit	41K
	<b>With solid shaft</b>					
	Operating angle 10°	B	<b>3SE5000-0AU22</b>	1	1 unit	41K

### Note:

The respective actuators are included in the scope of supply for the complete units.

## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches Hinge Switches

### 3SE2, plastic enclosures with integrated hinge

#### Overview

The 3SE2283 hinge switches with built-in hinge are particularly suitable for use in doors and flaps of machines that must be closed to ensure the safety of operating personnel. Their thin profile and the compact design allow them to be directly mounted on a hinged protective cover and the stable frame.

#### Benefits

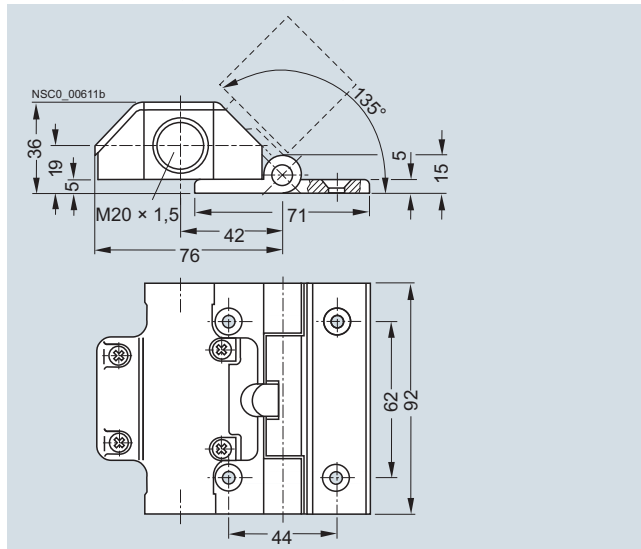
- Easy mounting through use of versions with integrated hinge
- Versions with small operating angle of 4° or 8°
- Protection against personal injury provided by positively driven NC contacts according to IEC 60947-5-1
- Simultaneous shutdown and reporting by  
1 NO + 2 NC contacts

#### Technical specifications

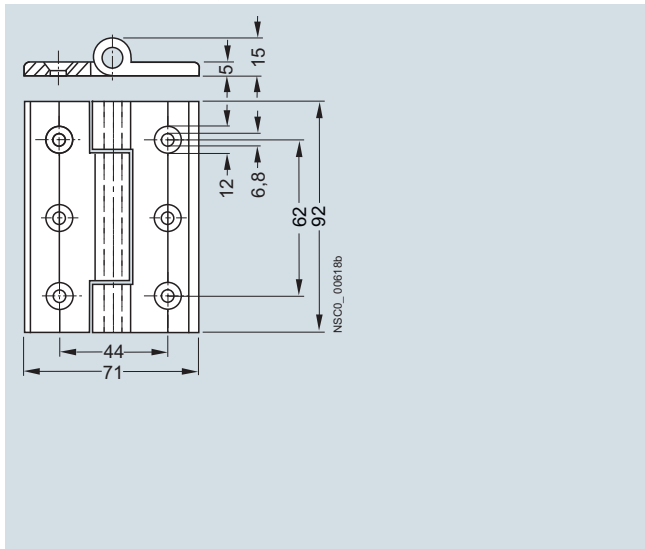
Type	3SE2283	
Rated insulation voltage $U_i$	V	250
Conventional thermal current $I_{th}$	A	2.5
Rated operational current $I_e$		
• At AC-15, 120 V	A	4.2
• At AC-15, 250 V	A	2
• At DC-13, 24 V	A	1
Min. make-break capacity	> 5 V/1 mA	
Short-circuit protection		
• Operating class gG	A	2
Mechanical endurance	> $1 \times 10^6$ operating cycles	
Switching frequency	1 200 operating cycles/h	
Positive opening	2 mm after opening point	
Enclosure material	Plastic	
Degree of protection	IP65	
Ambient temperature	°C	-25 ... +65
Shock resistance	30 g / 18 ms	
Resistance to vibrations	20 g / 10 ... 200 Hz	
Cable entry	2 x (M20 x 1.5)	
Screw terminals	0.5 ... 1.5 mm <sup>2</sup> / AWG 15	

#### Configuration

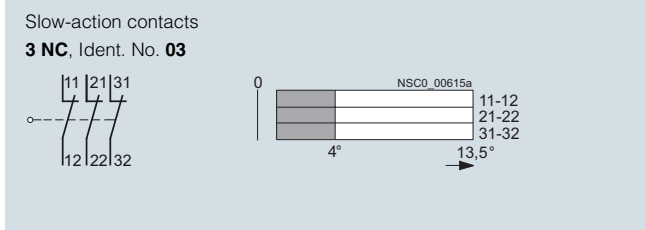
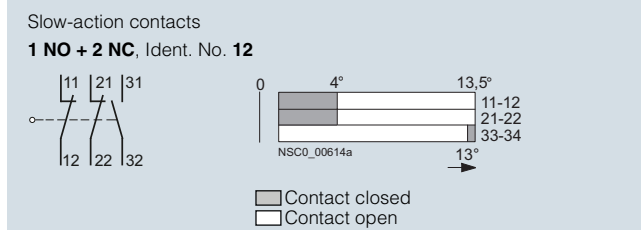
##### 3SE2283-GA.3 hinge switch with hinge



##### 3SX3225 additional hinge



#### Operating travel of the hinge



## SIRIUS 3SE5, 3SE2 Mechanical Safety Switches Hinge Switches

### 3SE2, plastic enclosures with integrated hinge

#### Selection and ordering data

3 contacts · Degree of protection IP65 · Cable entry 2 × (M20 × 1.5)

Version	Slow-action contacts	DT	Complete units <input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
			Article No.	Price per PU		

#### Plastic enclosures with integrated hinge



3SE2283

##### With integrated hinge

(Scope of supply includes additional hinge and fixing accessories)

##### • Aluminum hinge

- Operating angle 4°	1 NO + 2 NC	↻ A	<b>3SE2283-0GA43</b>	1	1 unit	41K
- Operating angle 4°	3 NC	↻ B	<b>3SE2283-6GA43</b>	1	1 unit	41K
- Operating angle 8°	1 NO + 2 NC	↻ C	<b>3SE2283-0GA53</b>	1	1 unit	41K
- Operating angle 8°	3 NC	↻ C	<b>3SE2283-6GA53</b>	1	1 unit	41K

##### • High-grade steel hinge

- Operating angle 4°	1 NO + 2 NC	↻ B	<b>3SE2283-0GA44</b>	1	1 unit	41K
- Operating angle 4°	3 NC	↻ C	<b>3SE2283-6GA44</b>	1	1 unit	41K

↻ Positive opening according to IEC 60947-5-1, Appendix K.

#### Accessories/spare parts

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
---------	----	-------------	-----------------	-------------------------	-----	----

#### Accessories



3SX3225

##### Additional hinge

(delivered with fixing accessories)

- Made of aluminum
- Made of high-grade steel

↻ D	<b>3SX3225</b>	1	1 unit	41K
↻ D	<b>3SX3231</b>	1	1 unit	41K

## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface

### General data

#### Overview

The 3SF1 position switches with safety-related communication can be directly connected using the AS-Interface bus system. The safety functions no longer have to be wired up conventionally.

With the 3SF1 position switches the ASIsafe electronics component is integrated in the switch enclosure.



Examples of selection options in the modular system

#### Modular system

The position switches of the 3SF11.4 and 3SF12.4 series are designed as a modular system comprising different versions of the basic switch and an actuator which must be ordered separately. Thanks to the modular design of the switch the end users can select the right solution for their application from numerous versions and install it themselves in a very short time.

#### Design

The 3SF1 switches are available in four different enclosure sizes:

- Plastic and metal enclosures according to EN 50047, 31 mm wide, with M12 plug
- Metal enclosures according to EN 50041, 40 mm wide, with M12 plug
- Plastic enclosures, 50 mm wide, with M12 plug and M12 socket
- Metal enclosures, 56 mm wide, with M12 plug and M12 socket

#### Display

The switches have a status display with three LEDs:

- LED 1 (yellow): F-IN1
- LED 2 (yellow): F-IN2
- LED 3 (green/red): AS-i/FAULT

#### Connection

Connection to the AS-Interface is by means of a 4-pole M12 connector socket (plastic version) connected to the yellow AS-Interface bus cable.

The wide enclosures (50 or 56 mm) also have an M12 socket for connecting a second position switch. Category 4 according to EN ISO 13849-1 is thus achieved.

#### Benefits

The new generation of 3SF1 position switches offers:

- ASIsafe electronics component integrated in the enclosure, with low power consumption < 60 mA
- An extensive range of actuators
- Status display with three LEDs

#### Application

With the standard position switches, mechanical positions of moving machine parts are converted into electrical signals. Through their modular and uniform design and large number of variants, the devices can comply with practically all requirements in industry.

Devices are available with enclosure versions to suit the particular ambient conditions. Different control tasks can be performed with the best contact blocks suited for the particular purpose. And many different actuator variants are available to match the mechanical configuration of the moving machined parts. Dimensions, fixing points and characteristics are largely in accordance with the EN 50041 or EN 50047 standards.

The devices are suitable for use in any climate.

#### Standards

The switches comply with the standards IEC 60947-1 (Low-Voltage Switchgear and Controlgear, General) and IEC 60947-5-1 (Electromechanical Control Circuit Devices).

The mechanical design of the switches corresponds to the requirements of the fail-safe principle according to EN 1088.

#### Approvals

AS-Interface according to EN 50295 and IEC 62026-2.

With a 3SF1 position switch it is possible to achieve Category 2 according to EN ISO 13849-1 or SIL 1 according to IEC 61508.

Categories 3 or 4 according to EN ISO 13849-1 or SIL 2 or 3 according to IEC 61508 can be achieved by using a second 3SE5 position switch.

The 3SF1 position switches are approved according to UL 508, UL 50 and UL 746-C.

## Technical specifications

Type	3SF11..., 3SF12..	
<b>General data</b>		
<b>Standards</b>	IEC 60947-5-1, EN 60947-5-1, EN 1088	
<b>According to AS-Interface specification</b>		
• I/O configuration / ID configuration	0 / B	
• ID1 code / ID2 code (Hex)	F / F	
• Power consumption, overall	mA	≤ 60
<b>Inputs</b>		
• Low signal range	Contact open	
• High signal range	Contact closed, $I_{in}$ dynamic ( $I_{peak} \geq 5$ mA)	
<b>Status display</b>	Green/red dual LED	
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	kV	0.6
<b>EMC resistance</b>		
• IEC 61000-1-2	kV	4
• IEC 61000-4-3	V/m	10
• IEC 61000-4-4 (A / B)	kV	1 / 2
<b>Mechanical endurance</b>		
• Basic switch	15 × 10 <sup>6</sup> operating cycles	
• With separate actuator, 3SF1...-..V..	1 × 10 <sup>6</sup> operating cycles	
<b>PFH value</b>		
Probability of failure upon request of the safety function, with 1 actuation per hour and $B_{10} = 5 \times 10^6$		
• Basic switch	1/h	4 × 10 <sup>-9</sup>
• With separate actuator, 3SF1...-..V..	1/h	2 × 10 <sup>-9</sup>
• Hinge switches, 3SF1...-..U..	1/h	2 × 10 <sup>-9</sup>
<b>Shock resistance</b> acc. to IEC 60068-2-27	30 g / 11 ms	

Type	3SF1234	3SF1134	3SF1244	3SF1214	3SF1114	3SF1124
<b>Enclosure</b>						
<b>Enclosure</b>	Ultradim A3X2G7			Zinc diecasting GD Zn Al4 Cu1		
• Material						
• Width	mm	31	40	50	31	40
• Dimensions according to EN		EN 50047	EN 50041	--	EN 50047	EN 50041
<b>Degree of protection</b> acc. to IEC 60529		IP65	IP66/IP67			
<b>Ambient temperature</b>						
• During operation	°C	-25 ... +60				
• Storage, transport	°C	-40 ... +80				
<b>Mounting position</b>	Any					

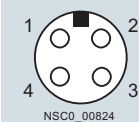
## Connector assignment

## M12 connector socket, 4-pole



- 1 ASi +
- 2 Not assigned
- 3 ASi -
- 4 Not assigned

## M12 socket, 4-pole



- 1 Channel 2
- 2 Channel 2
- 3 Not assigned
- 4 Not assigned

## LEDs

## Status display (operating state)

LEDs	No voltage on AS-Interface chip	Communication OK	Communication failed	Slave has address "0"
ASi/Fault (GN/RD)				

## Safe inputs

LEDs	Not actuated	Actuated		
F-IN1 (YE)				
F-IN2 (YE)				

## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface



Plastic enclosures, enclosure width 31 mm according to EN 50047 / 50 mm

### Selection and ordering data

#### Modular system

For the ASIsafe version of the position switch, the basic switch and actuator must be ordered separately.

1 or 2 contacts · 3 LEDs · Degree of protection IP65 (31 mm) or IP66/IP67 (50 mm) · M12 connector socket

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		

#### Basic switches (with rounded plunger<sup>1)</sup>) - Enclosure width 31 mm acc. to EN 50047



##### With teflon plunger

With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on NC contact

Slow-action contacts	2 NC	24 V DC		B	<b>3SF1234-1KC05-1BA1</b>	1	1 unit	42A
Snap-action contacts	2 NC	24 V DC		B	<b>3SF1234-1LC05-1BA1</b>	1	1 unit	42A

ASIsafe basic switch

#### Basic switches (with rounded plunger<sup>1)</sup>) - Enclosure width 50 mm




##### With teflon plunger

With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on M12 socket, right

Slow-action contacts	1 NC	24 V DC		B	<b>3SF1244-1KC05-1BA2</b>	1	1 unit	42A
Snap-action contacts	1 NC	24 V DC		B	<b>3SF1244-1LC05-1BA2</b>	1	1 unit	42A

ASIsafe basic switch

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator for use in safety circuits.








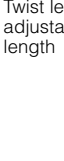
<sup>1)</sup> For enclosures with widths of 31 mm and 50 mm, the basic switch is a complete unit with rounded plungers.

#### Note:

Selection aid, see page 12/14.

## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface

Plastic enclosures, enclosure width 31 mm according to EN 50047 / 50 mm

Version	Roller diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Operating mechanisms</b>							
 Roller plunger	<b>Roller plungers, type C acc. to EN 50047</b>						
	Plastic roller	10	⊕ A	<b>3SE5000-0AD03</b>	1	1 unit	41K
	High-grade steel roller	10	⊕ B	<b>3SE5000-0AD04</b>	1	1 unit	41K
 With central fixing	<b>Roller plungers with central fixing</b>						
	Plastic roller	10	⊕ B	<b>3SE5000-0AD10</b>	1	1 unit	41K
	High-grade steel roller	10	⊕ B	<b>3SE5000-0AD11</b>	1	1 unit	41K
 Roller lever	<b>Roller levers, type E, acc. to EN 50047</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AE10</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE11</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AE12</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE13</b>	1	1 unit	41K
 Angular roller lever	<b>Angular roller levers</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AF10</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF11</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ A	<b>3SE5000-0AF12</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF13</b>	1	1 unit	41K
<b>Twist actuators with lever</b>							
 Twist actuator	<b>Twist actuators, plastic (without lever)</b>						
	Switching right or left, adjustable		⊕ A	<b>3SE5000-0AK00</b>	1	1 unit	41K
<b>Levers</b>							
 Twist levers	<b>Twist levers, type A, acc. to EN 50047</b>						
	Metal lever, plastic roller	19	⊕ A	<b>3SE5000-0AA21</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA22</b>	1	1 unit	41K
	Metal lever, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA23</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA25</b>	1	1 unit	41K
 Twist lever, adjustable length	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA31</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA32</b>	1	1 unit	41K
	<b>Twist levers 30 mm, straight<sup>1)</sup></b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit	41K
 Twist lever, adjustable length	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit	41K
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA67</b>	1	1 unit	41K
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit	41K

⊕ Positively driven actuator, for use in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).

# SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface



Metal enclosures, enclosure width 31 mm according to EN 50047

## Selection and ordering data

### Modular system

For the ASIsafe version of the position switch, the basic switch and actuator must be ordered separately.

2 contacts · 3 LEDs · Degree of protection IP66/IP67 · M12 connector socket

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
							
							
				Article No.	Price per PU		

### Basic switches (with rounded plunger<sup>1)</sup>) - Enclosure width 31 mm acc. to EN 50047




#### With plunger

With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on NC contact

Slow-action contacts	2 NC	24 V DC		B	<b>3SF1214-1KC05-1BA1</b>	1	1 unit	42A
Snap-action contacts	2 NC	24 V DC		B	<b>3SF1214-1LC05-1BA1</b>	1	1 unit	42A

ASIsafe basic switch

 For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

 Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator for use in safety circuits.

<sup>1)</sup> For enclosures with widths of 31 mm, the basic switch is a complete unit with rounded plungers.









#### Note:

Selection aid, see page 12/14.



## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface

Metal enclosures, enclosure width 31 mm according to EN 50047

Version	Roller diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Operating mechanisms</b>							
 Plain plungers	<b>Plain plungers</b>						
	High-grade steel plunger	10	⊕ A	<b>3SE5000-0AB01</b>	1	1 unit	41K
 Roller plunger	<b>Roller plungers, type C acc. to EN 50047</b>						
	Plastic roller	10	⊕ A	<b>3SE5000-0AD03</b>	1	1 unit	41K
	High-grade steel roller	10	⊕ B	<b>3SE5000-0AD04</b>	1	1 unit	41K
 With central fixing	<b>Roller plungers with central fixing</b>						
	Plastic roller	10	⊕ B	<b>3SE5000-0AD10</b>	1	1 unit	41K
	High-grade steel roller	10	⊕ B	<b>3SE5000-0AD11</b>	1	1 unit	41K
 Roller lever	<b>Roller levers, type E, acc. to EN 50047</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AE10</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE11</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ B	<b>3SE5000-0AE12</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AE13</b>	1	1 unit	41K
 Angular roller levers	<b>Angular roller levers</b>						
	Metal lever, plastic roller	13	⊕ A	<b>3SE5000-0AF10</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF11</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	13	⊕ A	<b>3SE5000-0AF12</b>	1	1 unit	41K
	High-grade steel lever, high-grade steel roller	13	⊕ B	<b>3SE5000-0AF13</b>	1	1 unit	41K
<b>Twist actuators with lever</b>							
 Twist actuator	<b>Twist actuators, plastic (without lever)</b>						
	Switching right or left, adjustable		⊕ A	<b>3SE5000-0AK00</b>	1	1 unit	41K
<b>Levers</b>							
 Twist levers	<b>Twist levers, type A, acc. to EN 50047</b>						
	Metal lever, plastic roller	19	⊕ A	<b>3SE5000-0AA21</b>	1	1 unit	41K
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA22</b>	1	1 unit	41K
	Metal lever, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA23</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA25</b>	1	1 unit	41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA31</b>	1	1 unit	41K
 Twist lever, adjustable length	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA32</b>	1	1 unit	41K
	<b>Twist levers 30 mm, straight<sup>1)</sup></b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit	41K
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit	41K
	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit	41K
Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit	41K	
Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA67</b>	1	1 unit	41K	
Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit	41K	
High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit	41K	
High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit	41K	

⊕ Positively driven actuator, for use in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).

# SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface

Metal enclosures, enclosure width 40 mm according to EN 50041 / 56 mm

## Selection and ordering data

### Modular system

For the ASIsafe version of the position switch, the basic switch and actuator must be ordered separately.

1 or 2 contacts · 3 LEDs · Degree of protection IP66/IP67 · M12 connector socket

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
				Article No.	Price per PU		

### Basic switches - Enclosure width 40 mm acc. to EN 50041



With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on NC contact

Slow-action contacts	2 NC	24 V DC		B	<b>3SF1114-1KA00-1BA1</b>	1	1 unit	42A
Snap-action contacts	2 NC	24 V DC		B	<b>3SF1114-1LA00-1BA1</b>	1	1 unit	42A

ASIsafe basic switch

### Basic switches - Enclosure width 56 mm



With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on M12 socket, right

Slow-action contacts	1 NC	24 V DC		B	<b>3SF1124-1KA00-1BA2</b>	1	1 unit	42A
Snap-action contacts	1 NC	24 V DC		B	<b>3SF1124-1LA00-1BA2</b>	1	1 unit	42A

ASIsafe basic switch

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K, or positively driven actuator for use in safety circuits.

Note:

Selection aid, see page 12/14.

Version	Roller diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
	mm					
			Article No.	Price per PU		

### Operating mechanisms



Plain plungers

<b>Plain plungers</b>							
High-grade steel plunger	10		A	<b>3SE5000-0AB01</b>	1	1 unit	41K



Rounded plungers

<b>Rounded plungers, type B, acc. to EN 50041</b>							
High-grade steel plunger, with 3 mm overtravel	10		B	<b>3SE5000-0AC02</b>	1	1 unit	41K










Roller plunger

<b>Roller plungers, type C, acc. to EN 50041</b>							
High-grade steel roller, with 3 mm overtravel	13		B	<b>3SE5000-0AD02</b>	1	1 unit	41K

Positively driven actuator, for use in safety circuits.

## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface

Metal enclosures, enclosure width 40 mm according to EN 50041 / 56 mm

Version	Roller diameter	DT	Modular system	PU (UNIT, SET, M)	PS*	PG	
	mm		Article No.	Price per PU			
<b>Operating mechanisms</b>							
	<b>Roller levers</b>						
	Metal lever, plastic roller	22	⊕ A	<b>3SE5000-0AE01</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AE02</b>	1	1 unit 41K	
	High-grade steel lever, plastic roller	22	⊕ B	<b>3SE5000-0AE03</b>	1	1 unit 41K	
	High-grade steel lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AE04</b>	1	1 unit 41K	
	<b>Angular roller levers</b>						
	Metal lever, plastic roller	22	⊕ A	<b>3SE5000-0AF01</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AF02</b>	1	1 unit 41K	
	High-grade steel lever, plastic roller	22	⊕ B	<b>3SE5000-0AF03</b>	1	1 unit 41K	
	High-grade steel lever, high-grade steel roller	22	⊕ B	<b>3SE5000-0AF04</b>	1	1 unit 41K	
<b>Twist actuators with lever</b>							
	<b>Twist actuators, metal (without lever)</b>						
	<ul style="list-style-type: none"> <li>For twist levers, switching right or left, adjustable</li> <li>- For enclosure width 40 and 56 mm</li> </ul>		⊕ A	<b>3SE5000-0AH00</b>	1	1 unit 41K	
	<ul style="list-style-type: none"> <li>For fork levers, latching</li> </ul>		⊕ B	<b>3SE5000-0AT10</b>	1	1 unit 41K	
<b>Levers</b>							
	<b>Twist levers 27 mm, offset, type A, acc. to EN 50041</b>						
	Metal lever, plastic roller	19	⊕ A	<b>3SE5000-0AA01</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller	19	⊕ A	<b>3SE5000-0AA02</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller with ball bearing	19	⊕ B	<b>3SE5000-0AA03</b>	1	1 unit 41K	
	Metal lever, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AA04</b>	1	1 unit 41K	
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA05</b>	1	1 unit 41K	
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA07</b>	1	1 unit 41K	
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA08</b>	1	1 unit 41K	
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA11</b>	1	1 unit 41K	
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA12</b>	1	1 unit 41K	
		<b>Twist levers 35 mm, offset</b>					
		Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA15</b>	1	1 unit 41K
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA16</b>	1	1 unit 41K	
	<b>Twist levers 30 mm, straight<sup>1)</sup></b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA24</b>	1	1 unit 41K	
	Metal lever, plastic roller	30	⊕ B	<b>3SE5000-0AA26</b>	1	1 unit 41K	
	<b>Twist levers, adjustable length, with grid hole</b>						
	Metal lever, plastic roller	19	⊕ B	<b>3SE5000-0AA60</b>	1	1 unit 41K	
	Metal lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA61</b>	1	1 unit 41K	
	Metal lever, plastic roller	50	⊕ B	<b>3SE5000-0AA67</b>	1	1 unit 41K	
	Metal lever, rubber roller	50	⊕ B	<b>3SE5000-0AA68</b>	1	1 unit 41K	
	High-grade steel lever, plastic roller	19	⊕ B	<b>3SE5000-0AA62</b>	1	1 unit 41K	
	High-grade steel lever, high-grade steel roller	19	⊕ B	<b>3SE5000-0AA63</b>	1	1 unit 41K	
	<b>Fork levers (for switches with snap-action contacts only)</b>						
	Metal lever, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AT01</b>	1	1 unit 41K	
	Metal lever, 2 high-grade steel rollers	19	⊕ B	<b>3SE5000-0AT02</b>	1	1 unit 41K	
High-grade steel lever, 2 plastic rollers	19	⊕ B	<b>3SE5000-0AT03</b>	1	1 unit 41K		
High-grade steel lever, 2 high-grade steel rollers	19	⊕ B	<b>3SE5000-0AT04</b>	1	1 unit 41K		

⊕ Positively driven actuator, for use in safety circuits.

<sup>1)</sup> Can be clinch mounted (turned through 180°, rear of lever).

## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface With Separate Actuator

### General data

#### Overview

The 3SF1 safety switches with safety-related communication can be directly connected using the AS-Interface bus system. The safety functions no longer have to be wired up conventionally.

With the 3SF1 safety switches the ASIsafe electronics component is integrated in the switch enclosure.



3SF1 safety switches with head for separate actuator and with integrated ASIsafe electronics

3SF1 safety switches with separate actuator have the same enclosures as the 3SF1 position switches.

#### Operation

The actuator head is included in the scope of supply. For actuation from four directions it can be adjusted through  $4 \times 90^\circ$ . The switches can also be approached from above.

The actuators are not included in the scope of supply of the safety switch and must be ordered separately from a choice of different versions to suit the application ([see page 12/95](#)).

The actuator is encoded. Simple overruling by hand or auxiliary devices is impossible.

A high-grade steel blocking insert for attaching up to eight padlocks is available for even more safety.

A rubber cap to protect the actuator head from contamination is available for operation in dusty environments.

#### Display

The switches have a status display with three LEDs:

- LED 1 (yellow): F-IN1
- LED 2 (yellow): F-IN2
- LED 3 (green/red): AS-i/FAULT

#### Connection

Connection to the AS-Interface is by means of a 4-pole M12 connector socket (plastic version) connected to the yellow AS-Interface bus cable.

The wide enclosures (50 or 56 mm) also have an M12 socket for connecting a second safety switch. Category 4 according to EN ISO 13849-1 is thus achieved.

#### Benefits

The new generation of 3SF1 safety switches with separate actuator offers

- ASIsafe electronics component integrated in the enclosure, with low power consumption < 60 mA
- An extensive range of actuators
- Status display with three LEDs

#### Application

Safety switches with separate actuator are used where the position of doors, covers or protective grilles must be monitored for safety reasons.

The safety switch can only be operated with the matching coded actuator. Simple overruling by hand or auxiliary devices is impossible.

Devices are available with enclosure versions to suit the particular ambient conditions. Different control tasks can be performed with the best contact blocks suited for the particular purpose. Dimensions, fixing points of the enclosure are in accordance with EN 50041 or EN 50047 standards.

The devices are suitable for use in any climate.

#### Standards

The switches comply with the standards IEC 60947-1 (Low-Voltage Switchgear and Controlgear, General) and IEC 60947-5-1 (Electromechanical Control Circuit Devices).

The mechanical design of the switches corresponds to the requirements of the fail-safe principle according to EN 1088.

#### Approvals

AS-Interface according to EN 50295 and IEC 62026-2.

With a 3SF1 safety switch it is possible to achieve Category 3 according to EN ISO 13849-1 or SIL 2 according to IEC 61508.

Category 4 according to EN ISO 13849-1 or SIL 3 according to IEC 61508 can be achieved by using an additional 3SE5 safety switch.

The 3SF1 safety switches are approved according to UL 508, UL 50 and UL 746-C.

## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface With Separate Actuator

Plastic enclosures, enclosure width 31 mm / 50 mm

### Overview

- Contacts: 1 or 2 slow-action contacts
- Status display with 3 LEDs 24 V DC;  
1: F-IN1, 2: F-IN2, 3: AS-i/FAULT
- Degree of protection IP65 (31 mm) or IP66/IP67 (50 mm)

### Selection and ordering data

Version <sup>1)</sup>	Contacts	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
			Configurator			
			Article No.	Price per PU		

#### Enclosure width 31 mm acc. to EN 50047



#### 5 directions of approach

With M12 connector socket, 4-pole,  
channel 1 on NC contact,  
channel 2 on NC contact

Slow-action contacts

2 NC

B

**3SF1234-1QV40-1BA1**

1

1 unit

42A

#### Enclosure width 50 mm



#### 5 directions of approach

With M12 connector socket, 4-pole;  
channel 1 on NC contact,  
channel 2 on M12 socket, right

Slow-action contacts

1 NC

B

**3SF1244-1QV40-1BA2**

1

1 unit

42A

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/95).




## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface With Separate Actuator

Metal enclosures, enclosure width 31 mm / 40 mm / 56 mm

### Overview

- Contacts: 1 or 2 slow-action contacts
- Status display with 3 LEDs 24 V DC;  
1: F-IN1, 2: F-IN2, 3: AS-i/FAULT
- Degree of protection IP66/IP67

### Selection and ordering data

Version <sup>1)</sup>	Contacts	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
			<input type="checkbox"/>			
			Configurator			
			Article No.	Price per PU		
<b>Enclosure width 31 mm acc. to EN 50047</b>						
	<b>5 directions of approach</b> With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on NC contact Slow-action contacts	2 NC	⊕ B	<b>3SF1214-1QV40-1BA1</b>	1	1 unit 42A
<b>Enclosure width 40 mm acc. to EN 50041</b>						
	<b>5 directions of approach</b> With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on NC contact Slow-action contacts	2 NC	⊕ B	<b>3SF1114-1QV10-1BA1</b>	1	1 unit 42A
<b>Enclosure width 56 mm</b>						
	<b>5 directions of approach</b> With M12 connector socket, 4-pole; channel 1 on NC contact, channel 2 on M12 socket, right Slow-action contacts	1 NC	⊕ B	<b>3SF1124-1QV10-1BA2</b>	1	1 unit 42A

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).













⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately (see page 12/95).

# SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface With Separate Actuator

## Accessories

### Selection and ordering data

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
<b>Actuators</b>						
 3SE5000-0AV01		▶ <b>3SE5000-0AV01</b>		1	1 unit	41K
<b>Standard actuators</b>						
• Length 75.6 mm						
 3SE5000-0AV02	B	▶ <b>3SE5000-0AV02</b>		1	1 unit	41K
• With vertical fixing, length 53 mm						
 3SE5000-0AV03	B	▶ <b>3SE5000-0AV03</b>		1	1 unit	41K
• With transverse fixing, length 47 mm						
 3SE5000-0AW11	B	▶ <b>3SE5000-0AW11</b>		1	1 unit	41K
• With transverse fixing, plastic <sup>1)</sup> , length 40 mm						
<b>Radius actuators</b>						
 3SE5000-0AV04	A	▶ <b>3SE5000-0AV04</b>		1	1 unit	41K
• Length 51 mm, direction of approach from the left						
 3SE5000-0AV6		▶ <b>3SE5000-0AV06</b>		1	1 unit	41K
• Length 51 mm, direction of approach from the right						
<b>Universal radius actuators</b>						
 3SE5000-0AV05-1AA6	B	▶ <b>3SE5000-0AV05</b>		1	1 unit	41K
- Length 77 mm						
 3SE5000-0AV07	B	▶ <b>3SE5000-0AV05-1AA6</b>		1	1 unit	41K
- Length 77 mm, tab rotated 90°						
<b>Universal radius actuators, heavy duty</b>						
 3SE5000-0AV07	A	▶ <b>3SE5000-0AV07-1AK2</b>		1	1 unit	41K
- Length 67 mm						
 3SE5000-0AV07	B	▶ <b>3SE5000-0AV07</b>		1	1 unit	41K
- Length 77 mm						
<b>Optional accessories</b>						
 3SE5000-0AV08-1AA2	C	▶ <b>3SE5000-0AV08-1AA2</b>		1	1 unit	41K
<b>Protective caps</b> made of black rubber for the actuator head, to protect the actuator openings from contamination (Only for enclosure width 40 or 56 mm)						
 3SE5000-0AV08-1AA3	B	▶ <b>3SE5000-0AV08-1AA3</b>		1	1 unit	41K
<b>Blocking inserts</b> , high-grade steel, for actuator head, for up to eight padlocks						

<sup>1)</sup> Not suitable for safety switches with tumbler.

## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface With Tumbler

### General data

#### Overview

The 3SF1 safety switches with safety-related communication can be directly connected using the AS-Interface bus system. The safety functions no longer have to be wired up conventionally.

With the 3SF1 safety switches the ASIsafe electronics component is integrated in the switch enclosure.



3SF1 safety switch with tumbler and with integrated ASIsafe electronics

#### Operation

The actuator head is included in the scope of supply. For actuation from four directions it can be adjusted through  $4 \times 90^\circ$ . The switches can also be approached from above.

The actuators are not included in the scope of supply of the safety switch and must be ordered separately from a choice of different versions to suit the application (see page 12/95).

The actuator is encoded. Simple overruling by hand or auxiliary devices is impossible.

A high-grade steel blocking insert for attaching up to eight padlocks is available for even more safety.

A rubber cap to protect the actuator entry of the actuator head from contamination is available for operation of the enclosures in dusty environments.

#### Tumbler

There are two versions for interlocking the actuator:

- Spring-actuated lock (closed-circuit principle) with various release mechanisms
- Solenoid-locked (open-circuit principle)

For more explanations, see page 12/71.

#### Display

The switches have a status display with four LEDs:

- LED 1 (green): AS-i
- LED 2 (red): FAULT
- LED 3 (yellow): F-IN1
- LED 4 (yellow): F-IN2

#### Connection

Connection to the AS-Interface is by means of a 4-pole M12 connector socket (plastic version) connected to the yellow AS-Interface bus cable (no additional supply of auxiliary power is required thanks to the low current consumption of the solenoid of max. 170 mA).

#### Benefits

The new generation of 3SF13 safety switches with tumbler offers:

- More safety through higher locking forces:
  - 1 300 N for the plastic version
  - 2 600 N for the metal version
- Various release mechanisms: Lock release, escape release and emergency release
- ASIsafe electronics integrated in the enclosure; connected through 4-pole M12 connector socket
- Current consumption of the solenoid no more than 170 mA
- Two contact blocks as standard equipment, hence fewer versions needed
- Same dimensions for all enclosure versions: Plastic, metal
- An extensive range of actuators
- Status display with four LEDs
- **NEW:** 3SF1324-1S.21-1BK4 series with high IP69K degree of protection, cover with foamed seal

#### Application

The safety switches with tumbler are exceptional safety-related devices which prevent an unforeseen or intentional opening of protective doors, protective grilles or other covers as long as a dangerous situation is present (e.g. follow-on motion of the switched-off machine).

The safety switches with tumbler have the following functions:

- Enabling the machine or process with closed and locked protective device
- Locking the machine or process with opened protective device
- Position monitoring of the protective device and tumbler

#### Standards

The switches comply with the standards IEC 60947-1 (Low-Voltage Switchgear and Controlgear, General) and IEC 60947-5-1 (Electromechanical Control Circuit Devices).

The mechanical design of the switches corresponds to the requirements of the fail-safe principle according to EN 1088.

#### Approvals

AS-Interface according to EN 50295 and IEC 62026-2.

The switches are approved for use with locking devices according to EN 1088 and EN 292, Parts 1 and 2.

3SF13 safety switches with tumbler have a VDE test mark.

With a 3SF13 safety switch with tumbler it is possible to achieve Category 3 according to EN ISO 13849-1 or SIL 2 according to IEC 61508.

Category 4 according to EN ISO 13849-1 or SIL 3 according to IEC 61508 can be achieved by using an additional 3SE5 safety switch.

The 3SF1 safety switches are approved according to UL 508, UL 50 and UL 746-C.

#### Manual

For more information, see [System Manual "SIRIUS 3SE5 / 3SF1 Position Switches"](http://support.automation.siemens.com/WW/view/en/43920150), <http://support.automation.siemens.com/WW/view/en/43920150>.



# SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface With Tumbler

Plastic enclosures with locking force greater than 1200 N

## Overview

### 5 directions of approach · Degree of protection IP66/IP67 (IP69K)

- Slow-action contacts:
  - Version -1BA1: ASIsafe channel 1 on 1 NC contact from the actuator and channel 2 on 1 NC contact from the solenoid
  - Version -1BA3: ASIsafe channel 1 on the first NC contact from the actuator and channel 2 on the second NC contact from the actuator
  - Version -1BA4: ASIsafe channel 1 on 2 NC contacts from the actuator and channel 2 on 1 NC contact from the solenoid. A discrepancy between the two contacts of the actuator will be evaluated already in the switch.
- Solenoid: Rated operational voltage 24 V DC
- 1 300 N locking force
- Status display with 4 LEDs 24 V DC; 1: AS-i, 2: FAULT, 3: F-IN1, 4: F-IN2

### Safety level

The 3SF1324-1S.21-1BA4 safety switches are also recommended where there are several protective door tumblers where reliable diagnostics and quick restart capability of equipment is required.

- A response is received from the magnet.
- No opening of the doors after the solenoid is unlocked.

In connection with an ASIsafe MSS modular safety system or in DP/AS-i F-Link it is possible to achieve SIL 2 according to IEC 61508 or PL d according to ISO 13849-1.

### Comparison of versions

Safety switches	Contacts	Achievable safety level	Diagnostics	Reclosing condition after unlocking the solenoid (depending on the type of evaluation)
Type	Actuator / solenoid		Feedback from the solenoid	
3SF1324-1S.21-1BA1	1 NC / 1 NC	SIL 1 / PL c	✓	Door does <u>not</u> have to be opened
	1 NC / 1 NC	SIL 2 / PL d	✓	Door must be opened
3SF1324-1S.21-1BA3	2 NC / --	SIL 2 / PL d	--	Door does <u>not</u> have to be opened
3SF1324-1S.21-1BA4	2 NC / 1 NC	SIL 2 / PL d	✓	Door does <u>not</u> have to be opened
3SF1324-1S.21-1BK4 (IP69K)	2 NC / 1 NC	SIL 2 / PL d	✓	Door does <u>not</u> have to be opened

✓ Available

-- Not available

## Selection and ordering data

Tumbler <sup>1)</sup>	Contacts Actuators / Solenoids	DT	Complete units	PU (UNIT, SET, M)	PS*	PG
			Configurator			
			Article No.	Price per PU		
<b>1 300 N locking force · Enclosure width 54 mm</b>						
<b>Spring-actuated locks</b>						
	• With auxiliary release	1 NC / 1 NC	⊕ B	<b>3SF1324-1SD21-1BA1</b>	1	1 unit 42A
		2 NC / --	⊕ B	<b>3SF1324-1SD21-1BA3</b>	1	1 unit 42A
		2 NC / 1 NC	⊕ B	<b>3SF1324-1SD21-1BA4</b>	1	1 unit 42A
		2 NC / 1 NC	⊕ B	<b>3SF1324-1SD21-1BK4</b>	1	1 unit 42A
	- Degree of protection IP69K acc. to DIN 40050 <b>NEW</b>	2 NC / 1 NC	⊕ B	<b>3SF1324-1SD21-1BK4</b>	1	1 unit 42A
	• With auxiliary release with lock	1 NC / 1 NC	⊕ B	<b>3SF1324-1SE21-1BA1</b>	1	1 unit 42A
	• With escape release from the front	1 NC / 1 NC	⊕ B	<b>3SF1324-1SF21-1BA1</b>	1	1 unit 42A
		2 NC / 1 NC	⊕ B	<b>3SF1324-1SF21-1BA4</b>	1	1 unit 42A
		2 NC / 1 NC	⊕ B	<b>3SF1324-1SF21-1BK4</b>	1	1 unit 42A
	• With escape release from the back and auxiliary release from the front	1 NC / 1 NC	⊕ B	<b>3SF1324-1SG21-1BA1</b>	1	1 unit 42A
		2 NC / 1 NC	⊕ B	<b>3SF1324-1SG21-1BA4</b>	1	1 unit 42A
		2 NC / 1 NC	⊕ B	<b>3SF1324-1SG21-1BK4</b>	1	1 unit 42A
	- Degree of protection IP69K acc. to DIN 40050 <b>NEW</b>	2 NC / 1 NC	⊕ B	<b>3SF1324-1SG21-1BK4</b>	1	1 unit 42A
	• With emergency release from the back and auxiliary release from the front	1 NC / 1 NC	⊕ B	<b>3SF1324-1SJ21-1BA1</b>	1	1 unit 42A
		1 NC / 1 NC	⊕ B	<b>3SF1324-1SB21-1BA1</b>	1	1 unit 42A
<b>Solenoid locks</b>						
		1 NC / 1 NC	⊕ B	<b>3SF1324-1SB21-1BA1</b>	1	1 unit 42A
		2 NC / --	⊕ B	<b>3SF1324-1SB21-1BA3</b>	1	1 unit 42A

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately.

For actuators and optional accessories, see page 12/95.

## SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface With Tumbler

Metal enclosures with locking force greater than 2000 N

### Overview




#### 5 directions of approach · Degree of protection IP66/IP67

- Slow-action contacts:  
Version -1BA1: ASIsafe channel 1 on 1 NC contact from the actuator and channel 2 on 1 NC contact from the solenoid
- Solenoid: Rated operational voltage 24 V DC
- 2 600 N locking force
- Status display with 4 LEDs 24 V DC;  
1: AS-i, 2: FAULT, 3: F-IN1, 4: F-IN2

#### Safety level

See page 12/97.

### Selection and ordering data

Tumbler <sup>1)</sup>	Contacts Actuators / Solenoids	DT	Complete units <input type="checkbox"/>	PU (UNIT, SET, M)	PS*	PG
			Configurator			
			Article No.	Price per PU		
<b>2 600 N locking force · Enclosure width 54 mm</b>						
	<b>Spring-actuated locks</b>					
	• With auxiliary release	1 NC / 1 NC	⊕ B	<b>3SF1314-1SD11-1BA1</b>	1	1 unit 42A
	• With auxiliary release with lock	1 NC / 1 NC	⊕ B	<b>3SF1314-1SE11-1BA1</b>	1	1 unit 42A
3SF1314-1SD11-...						
	• With escape release from the front	1 NC / 1 NC	⊕ B	<b>3SF1314-1SF11-1BA1</b>	1	1 unit 42A
	• With escape release from the back and auxiliary release from the front	1 NC / 1 NC	⊕ B	<b>3SF1314-1SG11-1BA1</b>	1	1 unit 42A
	• With escape release from the back and auxiliary release with lock from the front	1 NC / 1 NC	⊕ B	<b>3SF1314-1SH11-1BA1</b>	1	1 unit 42A
	• With emergency release from the back and auxiliary release from the front	1 NC / 1 NC	⊕ B	<b>3SF1314-1SJ11-1BA1</b>	1	1 unit 42A
3SF1314-1SF11-...						
	<b>Solenoid locks</b>	1 NC / 1 NC	⊕ B	<b>3SF1314-1SB11-1BA1</b>	1	1 unit 42A
3SF1314-1SB11-...						

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

<sup>1)</sup> Supplied without actuator. Please order separately.

For actuators and optional accessories, see page 12/95.

# SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface Hinge Switches

Plastic enclosures, enclosure width 31 mm / 50 mm

## Overview

The 3SF1 safety hinge switches with safety-related communication can be directly connected using the AS-Interface bus system. The safety functions no longer have to be wired up conventionally.

With the 3SF1 hinge switches the ASIsafe electronics component is integrated in the switch enclosure.

The hinge switches are provided for mounting on hinges.

There are two actuator variants here:

- Hollow shaft, inner diameter 8 mm, outer 12 mm
- Solid shaft, diameter 10 mm

For the ASIsafe version of the hinge switch, the basic switch and actuator head must be ordered separately. The basic switches correspond to the 3SF1 position switches (use only versions with snap-action contacts).

The standards and approvals are the same as for the 3SF1 standard switches (see page 12/84).

## Selection and ordering data

### Modular system

1 or 2 contacts · 3 LEDs · Degree of protection IP65 (31 mm) or IP66/IP67 (50 mm) · M12 connector socket

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
				Article No.	Price per PU		

### Basic switches - Enclosure width 31 mm acc. to EN 50047



**With teflon plunger, with M12 connector socket**, 4-pole, channel 1 on NC contact, channel 2 on NC contact

Snap-action contacts    2 NC    24 V DC    B    **3SF1234-1LC05-1BA1**    1    1 unit    42A

ASIsafe basic switch

### Basic switches - Enclosure width 50 mm



**With teflon plunger, with M12 connector socket**, 4-pole, channel 1 on NC contact, channel 2 on M12 socket, right

Snap-action contacts    1 NC    24 V DC    B    **3SF1244-1LC05-1BA2**    1    1 unit    42A

ASIsafe basic switch

### Actuator heads



Actuator head with hollow shaft

**With hollow shaft**  
Operating angle 10°

B    **3SE5000-0AU21**    1    1 unit    41K



Actuator head with solid shaft

**With solid shaft**  
Operating angle 10°

B    **3SE5000-0AU22**    1    1 unit    41K

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K.

# SIRIUS 3SF1 Mechanical Safety Switches for AS-Interface Hinge Switches

Metal enclosures, enclosure width 31 mm / 40 mm / 56 mm

## Overview

The 3SF1 safety hinge switches with safety-related communication can be directly connected using the AS-Interface bus system. The safety functions no longer have to be wired up conventionally.

With the 3SF1 hinge switches the ASIsafe electronics component is integrated in the switch enclosure.

The hinge switches are provided for mounting on hinges.

There are two actuator variants here:

- Hollow shaft, inner diameter 8 mm, outer 12 mm
- Solid shaft, diameter 10 mm

For the ASIsafe version of the hinge switch, the basic switch and actuator head must be ordered separately. The basic switches correspond to the 3SF1 position switches (use only versions with snap-action contacts).

The standards and approvals are the same as for the 3SF1 standard switches ([see page 12/84](#)).

## Selection and ordering data

### Modular system

1 or 2 contacts · 3 LEDs · Degree of protection IP66/IP67 · M12 connector socket

Version	Contacts	LEDs	DT	Modular system	PU (UNIT, SET, M)	PS*	PG
				Article No.	Price per PU		

### Basic switches - Enclosure width 31 mm acc. to EN 50047



#### With plunger

With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on NC contact

Snap-action contacts    2 NC    24 V DC    B    **3SF1214-1LC05-1BA1**    1    1 unit    42A

ASIsafe basic switch

### Basic switches - Enclosure width 40 mm acc. to EN 50041



With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on NC contact

Snap-action contacts    2 NC    24 V DC    B    **3SF1114-1LA00-1BA1**    1    1 unit    42A

ASIsafe basic switch

### Basic switches - Enclosure width 56 mm



With M12 connector socket, 4-pole, channel 1 on NC contact, channel 2 on M12 socket, right

Snap-action contacts    1 NC    24 V DC    B    **3SF1124-1LA00-1BA2**    1    1 unit    42A

ASIsafe basic switch

### Actuator heads



#### Hollow shaft

Operating angle 10°

B    **3SE5000-0AU21**    1    1 unit    41K

Actuator head with hollow shaft



#### Solid shaft

Operating angle 10°

B    **3SE5000-0AU22**    1    1 unit    41K

Actuator head with solid shaft

For online configurator, see [www.siemens.com/sirius/configurators](http://www.siemens.com/sirius/configurators).

Positive opening according to IEC 60947-5-1, Appendix K.

# SIRIUS 3SE6 Non-Contact Safety Switches Magnet

## 3SE66, 3SE67 magnetically operated switches

### Overview

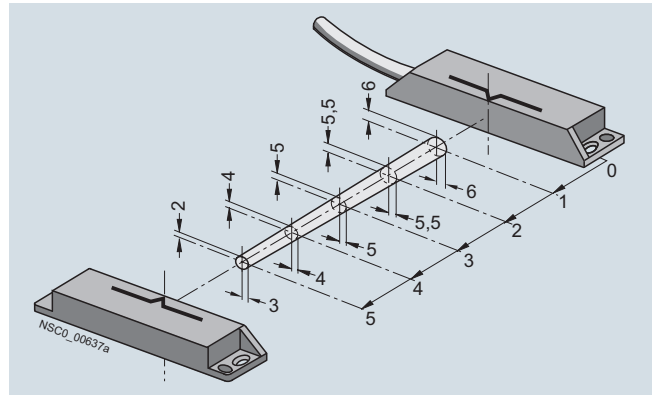


3SE66 contact blocks and 3SE67 switching magnets

A magnetically operated switch comprises a coded switching magnet and a contact block (sensor unit). Evaluation requires a safety relay or connection to a bus system.

### 3SE6806 safety relays

Up to six protective devices (sensors) can be connected to the safety relay.



Enabling range (example)

The device has six current-sourcing semiconductor outputs (Y1 ... Y6) which signal the state of the connected protective devices.

The 3SE6806 safety relay has two floating enabling circuits (safe circuits) as NO contact circuits and one floating signaling circuit as an NC contact circuit. The number of enabling circuits can be increased by adding one or more 3TK2830 expansion modules.

### Application

SIRIUS 3SE6 magnetically operated switches are designed for mounting on movable protective guards (hoods, hinge switches, doors, etc.). Evaluation can be performed by means of a safety relay or through connection to a bus system.

The 3SE66 non-contact, magnetically operated safety switches stand out due to their enclosed design with degree of protection IP67. They are particularly suitable therefore for areas exposed to contamination, cleaning or disinfecting.

A magnetic monitoring system comprises one or more magnetically operated switches and an evaluation unit, e.g. a safety relay. When contact blocks 1 NO + 1 NC are used the 3SE6806 safety relay provides a high degree of protection against manipulation and can be installed in safety circuits up to SIL 3 according to EN ISO 13849-1.

### Combination of monitoring units and magnetically operated switches

Monitoring units		Magnetically operated switches (contact block + switching magnet)			Achievable SIL (IEC 61508, IEC 62061) Performance Level (EN ISO 13849-1)
		1 NO + 1 NC 3SE6605-.BA  3SE6704-.BA	2 NC/1 NO + 2 NC 3SE6604-2BA../ 3SE6606-2BA04 3SE6704-2BA	1 NO + 2 NC <sup>1)</sup> 3SE6606-3BA  3SE6704-3BA	
<b>Relay outputs</b>					
SIRIUS safety relays, 6-fold	3SE6806-2CD00	✓	--	✓	<b>SIL 3 / e</b>
SIRIUS safety relays	3SK1111 3SK1121, 3TK2826	-- ✓	✓ ✓	-- ✓	<b>SIL 3 / e</b> <b>SIL 3 / e</b>
<b>Solid-state outputs</b>					
SIRIUS safety relays	3SK1112, 3SK1122 3TK2845	-- --	✓ ✓	-- --	<b>SIL 3 / e</b> <b>SIL 3 / e</b>
SIRIUS safety relays with contactor relay	3TK2850, 3TK2851, 3TK2852 3TK2853	-- --	✓ ✓	-- --	<b>SIL 2 / d</b> <b>SIL 3 / e</b>
ASIsafe compact safety modules	3RK1205, 3RK1405	--	✓	--	<b>SIL 3 / e</b>
Modular Safety System (MSS)	3RK3	✓	✓	✓	<b>SIL 3 / e</b>
SIMATIC S7-31xF-2 DP or SIMATIC ET 200M	SM 326 F, 24 DI, 24 V DC, SM 326 F, 8 DI, NAMUR	✓	✓	✓	<b>SIL 3</b>
SIMATIC ET 200S PROFIsafe	4/8 F-DI / 3 F-DO, 24 V DC 4/8 F-DI, 24 V DC	✓ ✓	✓ ✓	✓ ✓	<b>SIL 2</b> <b>SIL 3</b>
SIMATIC ET 200eco	4/8 F-DI, 24 V DC	✓	✓	✓	<b>SIL 3</b>
SIMATIC ET 200pro	8/16 F-DI, 24 V DC, 4/8 F-DI / 4 F-DO 2 A, 24 V DC, F-Switch	✓	✓	✓	<b>SIL 3</b>

✓ Suitable magnetically operated switch

-- Not available








<sup>1)</sup> The second NC is a signaling contact, not a safety contact.

# SIRIUS 3SE6 Non-Contact Safety Switches

## Magnet

### 3SE66, 3SE67 magnetically operated switches


#### Selection and ordering data

Version	Size	Contacts	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
<b>Round sensor units</b>								
 3SE6704-1BA	<b>Switching magnets (coded)</b>	M30	A	<b>3SE6704-1BA</b>		1	1 unit	41K
 3SE6505-1BA	<b>Contact blocks</b>							
	• With cable, 3 m	M30	1 NO + 1 NC	A	<b>3SE6605-1BA</b>	1	1 unit	41K
	• With M12 plug, 4-pole	M30	1 NO + 1 NC	A	<b>3SE6605-1BA02</b>	1	1 unit	41K
<b>Rectangular sensor units</b>								
 3SE6704-2BA	<b>Switching magnets (coded)</b>	25 × 88	--	A	<b>3SE6704-2BA</b>	1	1 unit	41K
 3SE660.-2BA	<b>Contact blocks</b>							
	• With cable, 3 m	25 × 88	1 NO + 1 NC 2 NC	A	<b>3SE6605-2BA</b>	1	1 unit	41K
				A	<b>3SE6604-2BA</b>	1	1 unit	41K
				C	<b>3SE6606-2BA04</b>	1	1 unit	41K
	• With cable, 10 m	25 × 88	1 NO + 1 NC 2 NC	A	<b>3SE6605-2BA10</b>	1	1 unit	41K
				A	<b>3SE6604-2BA10</b>	1	1 unit	41K
	• With M8 plug, 4-pole	25 × 88	1 NO + 1 NC 2 NC	A	<b>3SE6605-2BA01</b>	1	1 unit	41K
				A	<b>3SE6604-2BA01</b>	1	1 unit	41K
 3SE660.-3BA	<b>Switching magnets (coded)</b>	25 × 33	--	A	<b>3SE6704-3BA</b>	1	1 unit	41K
	<b>Contact blocks</b>							
	• With cable, 3 m	25 × 33	1 NO + 1 NC	A	<b>3SE6605-3BA</b>	1	1 unit	41K
	• With cable, 5 m			A	<b>3SE6605-3BA05</b>	1	1 unit	41K
	• With cable, 10 m			A	<b>3SE6605-3BA10</b>	1	1 unit	41K
	• With cable, 15 m			D	<b>3SE6605-3BA15</b>	1	1 unit	41K
	• With cable, 1 m	25 × 33	1 NO + 2 NC <sup>1)</sup>	A	<b>3SE6606-3BA</b>	1	1 unit	41K
<b>Accessories</b>								
 3SX3260	<b>Spacers</b>	25 × 88	--	A	<b>3SX3260</b>	1	1 unit	41K
 3SX3261	<b>Spacers</b>	25 × 33	--	A	<b>3SX3261</b>	1	1 unit	41K

<sup>1)</sup> The second NC is a signaling contact, not a safety contact.

Version	Number of sensors	Enabling/signaling circuits	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
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#### Monitoring units

 3SE6806-2CD00	<b>Safety relays with relay output, 6-fold</b>	6	2 NO / 1 NC	X	<b>3SE6806-2CD00</b>	1	1 unit	41K
	Rated control supply voltage 24 V DC							

For more monitoring units, see Chapter 2, Chapter 8, Chapter 9 and Chapter 11 as well as Catalog IK PI.

### Overview



Non-contact RFID safety switches with maximum tamper resistance

RFID 3SE63 non-contact safety switches comply with the highest safety requirements, SIL 3 or Cat. 4, for monitoring the positions of movable protective devices.

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

The switch is available in several versions:

- Family coded with M12 plug or with additional 18 N magnetic catch as an option
- Individually coded, programmable once, with M12 plug or with additional 18 N magnetic catch as an option
- Individually coded, programmable more than once (an unlimited number of times), with M12 plug or version with additional 18 N magnetic catch

The actuator is therefore available in two versions:

- Standard
- With 18 N magnetic catch

The magnetic catch keeps doors and hinge switches closed with permanent magnets.

#### Mounting and maintenance

Various options for mounting save on enclosure variants:

- Mounting of the switch on the right or left side
- The actuator can be mounted on all sides

Quick and easy mounting thanks to universal mounting holes

- Standard gauge/holes for 3SE6 magnetically operated switches
- Fine adjustment thanks to slotted holes

Little adjustment or maintenance required

- Threshold indication by LED display on the switch for quick and easy adjustment during mounting and maintenance
- Molded switch allows it to be used as an end stop for small and medium-sized doors

#### Note:

- Keep metal parts and cuttings away from the vicinity of the switch
- Minimum distance between two switches 100 mm

#### Optional accessories (mounting)

- Covers for sealing mounting holes, also suitable for tamper-proofing screw fixings
- Spacers (approx. 3 mm high) to facilitate cleaning under the installation surface when using high-pressure cleaners, for example

#### Coding

##### Family coded

These safety switches are delivered ready to use, i.e. no programming is necessary.

##### Individually coded, programmable once

The assignment of safety switch and actuator thus created is irreversible.

The actuator is programmed simply by routine during startup, thus permanently preventing any form of tampering by means of a replacement actuator.

##### Individually coded, programmable several times

The procedure for programming a new actuator can be repeated an unlimited number of times. When a new actuator is programmed the previous code becomes invalid. A protected coding process allows new actuators to be programmed for service purposes.

After this, a ten-minute lockout provides enhanced tamper protection. The green LED flashes until the lockout time has ended and the new actuator has been detected. If the operational voltage is interrupted during this time, the ten-minute guard time is restarted.

##### Programming procedure for individual coding

1. Apply operational voltage to safety sensor
2. Move actuator into detection range: red LED lights up, yellow LED flashes (1 Hz).
3. After 10 s it changes to a shorter flashing frequency (3 Hz). In this state switch off operational voltage.
4. After the next time the operational voltage is switched on, the actuator is detected again to activate the programmed actuator code. The activated code is thus stored permanently.

#### Diagnostics

The RFID safety switch indicates its operating state including faults by means of the LED indicator in the switch and the short-circuit proof diagnostics output. The signals can then be used for central displays or non-safety-related control tasks.

There are two diagnostics functions:

- Crossover monitoring
- Open-circuit monitoring
- External voltage monitoring
- Ambient temperature too high
- Wrong or defective actuator
- Switching interval threshold identification with LED display

The signal combination "diagnostics output switched off" and "safety outputs still switched on" can be used to move the machine into a controlled stop position.

Any crossover or a fault that is not currently compromising the safe function of a safety switch results in the disconnection of the safety channels after a 30-minute delay. However, the diagnostics output switches off instantaneously.

# SIRIUS 3SE6 Non-Contact Safety Switches

## RFID

### 3SE63 RFID safety switches

#### Mode of operation of the diagnostics LEDs

The safety switch indicates not only its operating state, but also faults by means of LEDs in three colors at the ends of the RFID switch.

- The green LED indicates readiness for operation when the control supply voltage is connected.
- The yellow LED indicates that there is an actuator in detection range. If the actuator is in the switching interval threshold, this is indicated by flashing. This flashing can be used to identify a change in the distance between sensor and actuator at an early stage (e.g. as a result of the sagging of a protective door). The installation should be tested before the distance increases further, the safety outputs switch off and the machine stops.
- The red LED indicates the individual causes of the fault by means of defined flashing frequencies.

#### Benefits

- Maximum tamper resistance by means of individual coding of switches and actuators at the highest safety level
- Plastic enclosure with integrated connector
- Two solid-state short-circuit proof safety outputs, each 250 mA
- Integrated crossover, open circuit and external voltage monitoring, with series circuit as far as the control cabinet
- Safety and diagnostics signals can be connected in series
- Series connection of safety circuits in Cat. 4/PL e/SIL 3
- LED status indication including switching interval threshold indication for quick and easy adjustment during installation and maintenance
- Short-circuit proof conventional diagnostics output
- Optional version with magnetic catch for interlocking hinge switches or small doors even when de-energized
- Highly rugged thanks to the use of tested enclosure materials, resistant to aggressive cleaning products, with a degree of protection of up to IP69K
- Fine adjustment thanks to slotted holes
- Little adjustment or maintenance required
- Molded switch allows it to be used as an end stop for small and medium-sized doors

#### Application

RFID non-contact safety switches are designed for use in safety circuits, and are used to monitor the positions of movable protective devices. They monitor the positions of rotating, laterally sliding or removable protective devices using the coded electronic actuator.

Their high degree of protection (IP69K) and the use of cleaning-product-resistant materials means that these switches are optimized for use under extreme environmental conditions.

Their electronic operating principle makes these switches ideal for metalworking machinery.

The switches have a larger switching interval and switching displacement than mechanical switches, improve the mounting tolerance of the protective door, and offer a wide range of diagnostics options.

The RFID switches can be connected to all standard evaluation units suitable for solid-state inputs and in which the built-in crossover monitoring function can be deactivated, e.g.:

Monitoring units	
<b>Relay outputs</b>	
SIRIUS safety relays	3SK1111-. AB30, 3SK1121
SIRIUS safety relays	3TK2826-. BB4.
<b>Solid-state outputs</b>	
SIRIUS safety relays	3SK1112, 3SK1122
SIRIUS safety relays	3TK2841, 3TK2842, 3TK2845 3TK2853-. BB40
Modular Safety System (MSS)	3RK3 (safe inputs)
SIMATIC ET 200S	6ES7138-4FA0.-0AB0, 6ES7138-4FC0.-0AB0
SIMATIC ET 200M	6ES7326-1BK0.-0AB0
SIMATIC ET 200eco	6ES7148-3FA00-0XB0
SIMATIC ET 200pro	6ES7148-4F.00-0AB0

These safety categories can be achieved in safety circuits:

- Category 4 according to EN ISO 13849-1
- PL e according to EN ISO 13849-1
- SIL 3 according to IEC 61508

#### Technical specifications

Type	3SE63	
<b>General data</b>		
<b>Standards</b>	IEC 60947-5-3, IEC 61508, EN ISO 13849-1	
<b>Enclosure material</b>	Glass-fiber reinforced thermoplast, self-extinguishing	
<b>Degree of protection</b>	IP69K	
<b>Ambient temperature</b>		
• During operation	°C	-25 ... +70
• During storage, transport	°C	-25 ... +85
<b>Shock resistance</b>	30 g / 11 ms	
<b>Vibration resistance</b>	10 ... 55 Hz / amplitude 1 mm	

Type	3SE63	
<b>Electrical specifications</b>		
<b>Rated insulation voltage <math>U_i</math></b>	V	32
<b>Degree of pollution</b> acc. to IEC 60664-1		3
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	V	800
<b>Rated conditional short-circuit current</b>	A	100
<b>Rated operational voltage <math>U_e</math></b> (PELV according to EN 60204-1)	V DC	24 -15/+10 %
<b>Protection class</b>		II
<b>Overvoltage category</b>		III
<b>Rated operational current <math>I_e</math></b>	A	0.6
<b>Smallest operational current <math>I_m</math></b>	mA	0.5
<b>No-load supply current <math>I_0</math></b>	mA	35

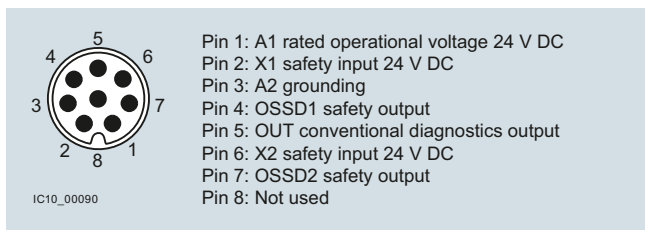


# SIRIUS 3SE6 Non-Contact Safety Switches RFID

## 3SE63 RFID safety switches

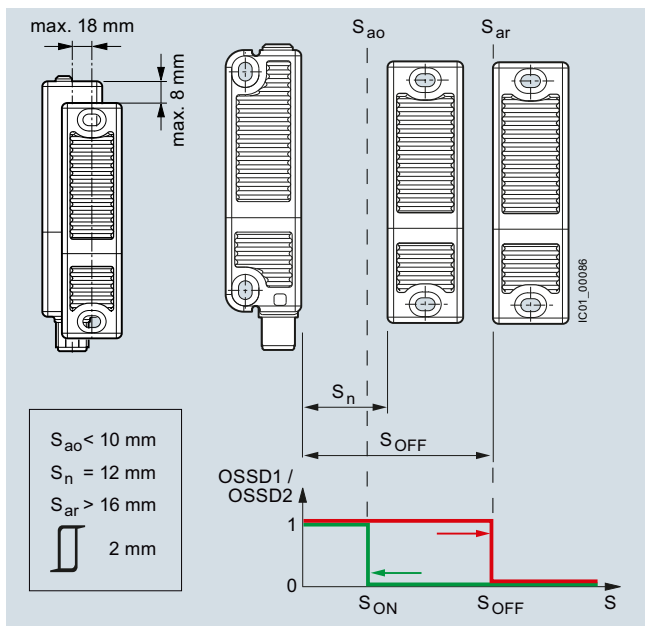
Type	3SE63	
<b>Inputs/outputs</b>		
<b>Safety inputs X1/X2</b>		
• Input voltage	V DC	24 -15/+10 %
• Power consumption per input	mA	5
<b>Safety outputs OSSD1/OSSD2</b>		
		p operation
• Max. rated operational current $I_{e\ max}$	A	0.25
• Rated operational current $I_e$ /DC-12/DC-13 at $U_e$	A	0.25
• Voltage drop $U_e$	V	< 1
• Switching frequency	Hz	1
• Response time, max.	ms	100
• Risk time, max.	ms	200
• Recovery, max.	s	5
<b>Diagnostics output</b>		
		p operation
• Max. rated operational current $I_{e2\ max}$	A	0.05
• Rated operational current $I_e$ /DC-12/DC-13 at $U_e$	A	0.05
• Voltage drop $U_e$	V	< 2
• Operational current	mA	150
• Conductor capacity, max.	nF	50

### Connector assignment

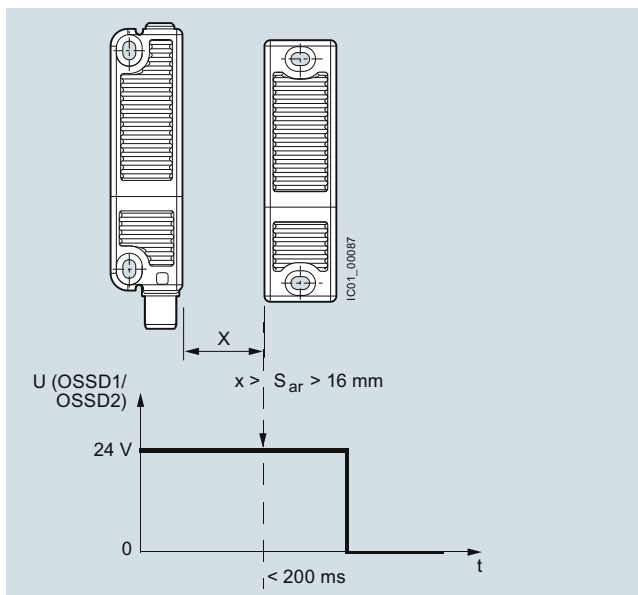


### Directions of approach and switching interval

The side area permits a maximum height offset of the switch and actuator of  $\pm 8$  mm (e.g. mounting tolerance or due to sagging of the protective door). The transverse offset also equals max.  $\pm 8$  mm.



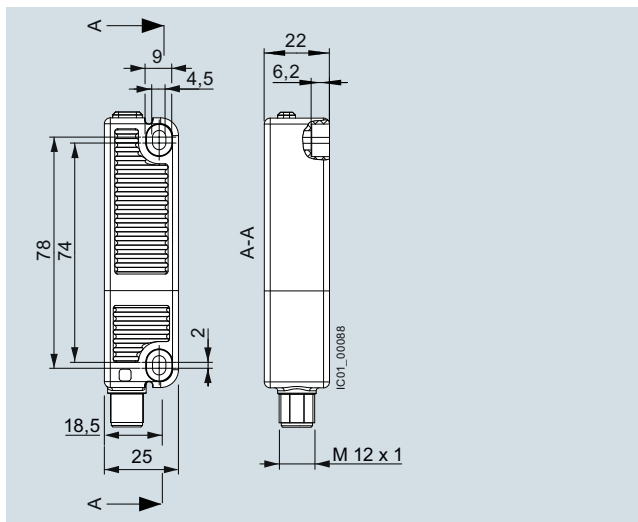
Switching interval: Output signal with hysteresis



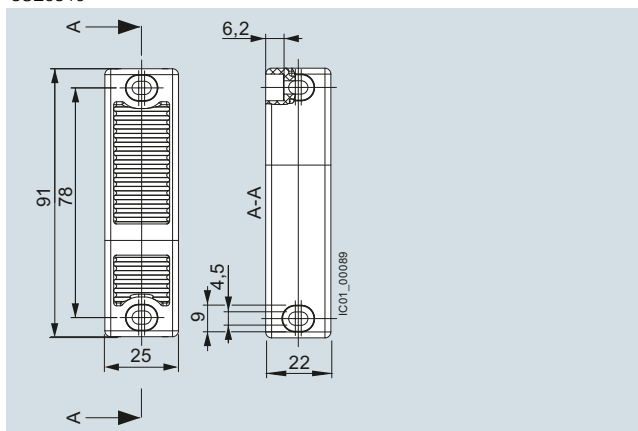
Switching interval: Output signal

### Dimensional drawings

#### RFID switch 3SE6315



#### RFID actuators 3SE6310







# SIRIUS 3SE6 Non-Contact Safety Switches

## RFID

### 3SE63 RFID safety switches

#### Selection and ordering data

With M12 connector, 8-pole

Version/coding	Latching/length	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
<b>Rectangular safety switches 91 mm x 25 mm</b>							
 <p>3SE6315</p>	<b>RFID safety switches</b>						
	• Family coded	None	A	<b>3SE6315-0BB01</b>		1	1 unit 41K
		With 18 N magnetic catch	A	<b>3SE6315-1BB01</b>		1	1 unit 41K
	• Individually coded, programmable several times	None	A	<b>3SE6315-0BB02</b>		1	1 unit 41K
		With 18 N magnetic catch	A	<b>3SE6315-1BB02</b>		1	1 unit 41K
	• Individually coded, programmable once	None	A	<b>3SE6315-0BB03</b>		1	1 unit 41K
	With 18 N magnetic catch	A	<b>3SE6315-1BB03</b>		1	1 unit 41K	
 <p>3SE6310</p>	<b>RFID actuators</b>						
	• Standard	None	A	<b>3SE6310-0BC01</b>		1	1 unit 41K
	With 18 N magnetic catch	A	<b>3SE6310-1BC01</b>		1	1 unit 41K	
<b>Optional accessories</b>							
 <p>3SX5600-1G</p>	<b>Covers and spacers</b>		A	<b>3SX5600-1G</b>		1	1 unit 41K
	One pack (1 unit) contains 8 covers and 4 spacers						
 <p>3SX5601-2GA</p>	<b>Connecting cables, 8-pole, with 1 straight M12 socket</b>						
		Length 3 m	A	<b>3SX5601-2GA03</b>		1	1 unit 41K
		Length 5 m	A	<b>3SX5601-2GA05</b>		1	1 unit 41K
	Length 10 m	A	<b>3SX5601-2GA10</b>		1	1 unit 41K	
Rated voltage 30 V							
Rated current 2 A							

For monitoring units, see Chapter 2, "Industrial Communication" → "AS-Interface" and Chapter 11, "Safety Technology" as well as Catalogs IK PI and ST 70.