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	<sup>1)</sup> see Catalog FS 10 "Sensor Technology"
	Siemens LV 1 · 2006

# Detecting Devices

## Introduction

### Overview



	3SE2, 3SE3, 3SF3 Position switches, standard	3SE3 Position switches, open-type	3SE2, 3SE3, 3SF3 Position switches with separate actuator	3SE2, 3SE3, 3SF3 Position switches with tumbler
<b>Enclosures</b>				
Molded plastic	✓	✓	✓	✓
Metal	✓	-	✓	✓
<b>Design</b>				
EN 50041	✓	-	✓	-
EN 50047	✓	-	✓	-
Special design	✓	✓	✓	✓
Separate actuator	-	-	✓	✓
Tumbler for actuator	-	-	-	✓
<b>Switch blocks</b>				
Single-pole	-	-	✓	-
Two-pole	✓	✓	✓	-
Three-pole	✓	✓	✓	-
Four-pole	✓	-	✓	✓
<b>Terminals</b>				
Screw terminals	✓	✓	✓	✓
Molded cable	✓	-	-	-
Plug-in connector	✓	-	✓	□
AS-Interface	✓	-	✓	✓

- ✓ Standard
- not available
- optional (accessory)



**3SE2**



**3SE2**



**3SE6**

	Explosion-proof position switches	Hinge switches	Magnetically operated switches
<b>Enclosures</b>			
Molded plastic	-	✓	✓
Metal	✓	-	-
<b>Design</b>			
EN 50041	✓	-	-
EN 50047	-	✓	-
Special design	-	✓	✓
Separate actuator	-	-	-
Tumbler for actuator	-	-	-
<b>Switch blocks</b>			
Single-pole	-	-	-
Two-pole	✓	✓	✓
Three-pole	-	✓	-
Four-pole	-	-	-
<b>Terminals</b>			
Screw terminals	✓	✓	-
Molded cable	-	-	✓
Plug-in connector	-	☐	✓
AS-Interface	-	-	☐

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

### General data

#### Overview



The standard series of SIRIUS position switches comprise:

- IP 20 open-type position switches
- Position switches with IP66/IP67 molded-plastic enclosure with 31, 40 and 50 mm width
- Position switches with IP67 metal enclosure with 40 and 56 mm width
- Compact position switches with metal enclosure and molded cable

#### 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".

#### Contact reliability

The movable contacts are double-break contacts. This ensures an extremely high contact stability, even when the devices are switching low voltages and currents, e.g. 5 V DC/1 mA.

#### Expansion range



Expansion range for position switches with molded-plastic enclosure:

- With M12 plug
- With high-grade steel roller or chlorinated rubber membrane.



Expansion range for position switches with metal enclosure:

- With different plug variants
- With high-grade steel roller
- With increased corrosion protection
- With LED 24 V.

#### Application

With the SIRIUS standard position switches, mechanical positions of moved machine parts are converted into electrical signals. Through their modular and uniform design and large number of variants, the devices can meet 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 switch blocks suited for the particular purpose. And many different actuator variants are available to match the mechanical configuration of the moved 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 that comply with IEC 60204-1 or EN 60204-1, the devices are suitable for use as safety position switches. To secure position switches against changes in their position, keyed techniques must be employed on installation.

#### Safety circuits

The standards IEC 60947-5-1 and EN 60947-5-1 require positive opening. Hence 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 954-1 can be attained with the standard position switches if the corresponding failsafe evaluation units are selected and correctly installed, e.g. the 3TK28 safety relays or matching units from the ASIsafe, SIMATIC or SINUMERIK product ranges.


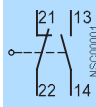





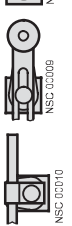

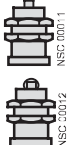
# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 31 mm and 50 mm

### Selection and ordering data

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50047 · Special width 50 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50047	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 <p>Ident. No. <b>11</b> according to EN 50013</p>				
				Order No.	Price per PU			kg
<b>Molded-plastic enclosures, 31 mm and 50 mm</b>								
 NSC00004	<b>Rounded plungers</b>	B	31	→ ▶	<b>3SE2 200-0C</b>	1	1 unit	102 0.060
	–	–	50	→ B	<b>3SE2 210-0C</b>	1	1 unit	102 0.080
 NSC 00005	<b>Roller plungers<sup>2)</sup></b>	C	31	→ ▶	<b>3SE2 200-0D</b>	1	1 unit	102 0.065
	–	–	50	→ B	<b>3SE2 210-0D</b>	1	1 unit	102 0.085
 NSC 00006	<b>Roller levers</b>	E	31	→ ▶	<b>3SE2 200-0E</b>	1	1 unit	102 0.064
	–	–	50	→ B	<b>3SE2 210-0E</b>	1	1 unit	102 0.085
 NSC00007	<b>Angular roller levers</b>	–	31	→ ▶	<b>3SE2 200-0F</b>	1	1 unit	102 0.065
	–	–	50	→ B	<b>3SE2 210-0F</b>	1	1 unit	102 0.085
 NSC 00008	<b>Twist levers</b>							
	• Finely adjustable from 10° to 10°	A	31	→ ▶	<b>3SE2 200-0G</b>	1	1 unit	102 0.080
	–	–	50	→ B	<b>3SE2 210-0G</b>	1	1 unit	102 0.100
	• Adjustable length, finely adjustable from 10° to 10°	–	31	B	<b>3SE2 200-0U</b>	1	1 unit	102 0.100
–	–	50	B	<b>3SE2 210-0U</b>	1	1 unit	102 0.110	
 NSC 00009	<b>Rod actuators</b>							
	Finely adjustable from 10° to 10°							
	• Molded-plastic rod	–	31	B	<b>3SE2 200-0W</b>	1	1 unit	102 0.100
	–	–	50	B	<b>3SE2 210-0W</b>	1	1 unit	102 0.120
	• Aluminum rod	–	31	B	<b>3SE2 200-0V</b>	1	1 unit	102 0.105
	–	–	50	B	<b>3SE2 210-0V</b>	1	1 unit	102 0.120
• Spring rod	–	31	B	<b>3SE2 200-0S</b>	1	1 unit	102 0.115	
–	–	50	B	<b>3SE2 210-0S</b>	1	1 unit	102 0.120	
 NSC 00010	<b>Rounded plungers</b>							
	Central fixing with M18 × 1 thread	–	31	→ B	<b>3SE2 200-0L</b>	1	1 unit	102 0.080
–	–	50	→ B	<b>3SE2 210-0L</b>	1	1 unit	102 0.085	
 NSC 00011	<b>Roller plungers</b>							
	Central fixing with M18 × 1 thread	–	31	→ B	<b>3SE2 200-0M</b>	1	1 unit	102 0.085
–	–	50	→ B	<b>3SE2 200-0M</b>	1	1 unit	102 0.085	

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/12).

2) Special version for applications in extremely dusty environments. Order No. has to be modified as follows: 3SE2 200-0D in 3SE2 200-0XJ.

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

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













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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 31 mm and 50 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50047 · Special width 50 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50047	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		31	→ ▶	<b>3SE2 200-1C</b>	1	1 unit	102	0.060
		50	→ B	<b>3SE2 210-1C</b>	1	1 unit	102	0.075
		31	B	<b>3SE2 200-1XH</b>	1	1 unit	102	0.060
	Optimized for lateral actuation and enhanced wear characteristics	50	B	<b>3SE2 210-1XH</b>	1	1 unit	102	0.070
		31	→ B	<b>3SE2 200-1CV01</b>	1	1 unit	102	0.060
	Operating travel 1.2 mm, hysteresis 0.6 mm	50	→ B	<b>3SE2 210-1CV01</b>	1	1 unit	102	0.075
		31	→ ▶	<b>3SE2 200-1D</b>	1	1 unit	102	0.065
		50	→ B	<b>3SE2 210-1D</b>	1	1 unit	102	0.085
		31	→ ▶	<b>3SE2 200-1E</b>	1	1 unit	102	0.065
		50	→ B	<b>3SE2 210-1E</b>	1	1 unit	102	0.085
		31	→ ▶	<b>3SE2 200-1F</b>	1	1 unit	102	0.065
		50	→ B	<b>3SE2 210-1F</b>	1	1 unit	102	0.085
		31	→ ▶	<b>3SE2 200-1G</b>	1	1 unit	102	0.085
	• Finely adjustable from 10° to 10°	50	→ B	<b>3SE2 210-1G</b>	1	1 unit	102	0.100
		31	B	<b>3SE2 200-1U</b>	1	1 unit	102	0.100
	• Adjustable length, finely adjustable from 10° to 10°	50	B	<b>3SE2 210-1U</b>	1	1 unit	102	0.115
		31	B	<b>3SE2 200-1W</b>	1	1 unit	102	0.100
	Finely adjustable from 10° to 10°	50	B	<b>3SE2 210-1W</b>	1	1 unit	102	0.115
		31	B	<b>3SE2 200-1V</b>	1	1 unit	102	0.105
		50	B	<b>3SE2 210-1V</b>	1	1 unit	102	0.125
		31	B	<b>3SE2 200-1S</b>	1	1 unit	102	0.110
		50	B	<b>3SE2 210-1S</b>	1	1 unit	102	0.130
		31	B	<b>3SE2 200-1R</b>	1	1 unit	102	0.090
		50	B	<b>3SE2 210-1R</b>	1	1 unit	102	0.105
		31	→ B	<b>3SE2 200-1L</b>	1	1 unit	102	0.085
	Central fixing with M18 × 1 thread	50	→ B	<b>3SE2 210-1L</b>	1	1 unit	102	0.100
		31	→ B	<b>3SE2 200-1M</b>	1	1 unit	102	0.070
	Central fixing with M18 × 1 thread	50	→ B	<b>3SE2 210-1M</b>	1	1 unit	102	0.100

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For reusable packaging, see Appendix.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/12).











2) Special version for applications in extremely dusty environments. Order No. has to be modified as follows:  
3SE2 200-1D in 3SE2 200-1XJ,  
3SE2 200-1G in 3SE2 200-1XG.

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 31 mm and 50 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50047 · Special width 50 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50047	Enclosure width	DT	Position switches with 2 slow-action make-before-break contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 <p>Ident. No. 11 according to EN 50013</p> <p>Order No. Price per PU</p>				kg	
<b>Molded-plastic enclosures, 31 mm and 50 mm</b>									
 NSC00004	<b>Rounded plungers</b>	B	31	→ B	<b>3SE2 200-3C</b>	1	1 unit	102	0.060
		-	50	→ B	<b>3SE2 210-3C</b>	1	1 unit	102	0.075
 NSC 00025	<b>Roller plungers</b>	C	31	→ B	<b>3SE2 200-3D</b>	1	1 unit	102	0.065
		-	50	→ B	<b>3SE2 210-3D</b>	1	1 unit	102	0.085
 NSC 00003	<b>Roller levers</b>	E	31	→ B	<b>3SE2 200-3E</b>	1	1 unit	102	0.065
		-	50	→ B	<b>3SE2 210-3E</b>	1	1 unit	102	0.085
 NSC00007	<b>Angular roller levers</b>	-	31	→ B	<b>3SE2 200-3F</b>	1	1 unit	102	0.065
		-	50	→ B	<b>3SE2 210-3F</b>	1	1 unit	102	0.085
 NSC 00006	<b>Twist levers</b>								
	• Finely adjustable from 10° to 10°	A	31	→ B	<b>3SE2 200-3G</b>	1	1 unit	102	0.080
		-	50	→ B	<b>3SE2 210-3G</b>	1	1 unit	102	0.100
	• Adjustable length, finely adjustable from 10° to 10°	-	31	B	<b>3SE2 200-3U</b>	1	1 unit	102	0.100
		-	50	B	<b>3SE2 210-3U</b>	1	1 unit	102	0.090
 NSC 00010	<b>Rod actuators</b>								
	Finely adjustable from 10° to 10°								
	• Molded-plastic rod	-	31	B	<b>3SE2 200-3W</b>	1	1 unit	102	0.700
		-	50	B	<b>3SE2 210-3W</b>	1	1 unit	102	0.115
	• Aluminum rod	-	31	B	<b>3SE2 200-3V</b>	1	1 unit	102	0.700
		-	50	B	<b>3SE2 210-3V</b>	1	1 unit	102	0.125
• Spring rod	-	31	B	<b>3SE2 200-3S</b>	1	1 unit	102	0.070	
	-	50	B	<b>3SE2 210-3S</b>	1	1 unit	102	0.145	
 NSC 00011	<b>Rounded plungers</b>								
	Central fixing with M18 × 1 thread	-	31	→ B	<b>3SE2 200-3L</b>	1	1 unit	102	0.070
		-	50	→ B	<b>3SE2 210-3L</b>	1	1 unit	102	0.100
 NSC 00012	<b>Roller plungers</b>								
	Central fixing with M18 × 1 thread	-	31	→ B	<b>3SE2 200-3M</b>	1	1 unit	102	0.085
		-	50	→ B	<b>3SE2 210-3M</b>	1	1 unit	102	0.130

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/12).

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

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







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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 31 mm and 50 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50047 · Special width 50 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50047	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 <p>Ident. No. <b>20</b> according to EN 50013 Order No. Price per PU</p>				kg	
<b>Molded-plastic enclosures, 31 mm and 50 mm</b>									
	<b>Rounded plungers</b>	B	31	B	<b>3SE2 200-7C</b>	1	1 unit	102	0.060
		-	50		-				
	<b>Roller plungers</b>	C	31	B	<b>3SE2 200-7D</b>	1	1 unit	102	0.065
		-	50		-				
	<b>Roller levers</b>	E	31	B	<b>3SE2 200-7E</b>	1	1 unit	102	0.065
		-	50		-				
	<b>Angular roller levers</b>	-	31	B	<b>3SE2 200-7F</b>	1	1 unit	102	0.065
		-	50		-				
	<b>Twist levers</b>	A	31	B	<b>3SE2 200-7G</b>	1	1 unit	102	0.080
	• Finely adjustable from 10° to 10°	-	50		-				
	• Adjustable length, finely adjustable from 10° to 10°	-	31	B	<b>3SE2 200-7U</b>	1	1 unit	102	0.100
		-	50		-				
	<b>Rod actuators</b>								
	Finely adjustable from 10° to 10°								
	• Molded-plastic rod	-	31	B	<b>3SE2 200-7W</b>	1	1 unit	102	0.100
		-	50		-				
	• Aluminum rod	-	31	B	<b>3SE2 200-7V</b>	1	1 unit	102	0.105
		-	50		-				
	• Spring rod	-	31	B	<b>3SE2 200-7S</b>	1	1 unit	102	0.110
		-	50		-				
	<b>Rounded plungers</b>	-	31	B	<b>3SE2 200-7L</b>	1	1 unit	102	0.050
	Central fixing with M18 × 1 thread		50		-				
	<b>Roller plungers</b>	-	31	B	<b>3SE2 200-7M</b>	1	1 unit	102	0.085
	Central fixing with M18 × 1 thread		50		-				

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/12).















# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 31 mm and 50 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50047 · Special width 50 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50047	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 Ident. No. <b>02</b> according to EN 50013 Order No.                      Price per PU                      kg				
<b>Molded-plastic enclosures, 31 mm and 50 mm</b>								
	<b>Rounded plungers</b>	B	31	→ B	<b>3SE2 200-6C</b>	1	1 unit	102 0.060
		-	50		-			
	<b>Roller plungers</b>	C	31	→ B	<b>3SE2 200-6D</b>	1	1 unit	102 0.065
		-	50		-			
	<b>Roller levers</b>	E	31	→ B	<b>3SE2 200-6E</b>	1	1 unit	102 0.065
		-	50		-			
	<b>Angular roller levers</b>	-	31	→ B	<b>3SE2 200-6F</b>	1	1 unit	102 0.060
		-	50		-			
	<b>Twist levers</b>	A	31	→ B	<b>3SE2 200-6G</b>	1	1 unit	102 0.080
	• Finely adjustable from 10° to 10°	-	50		-			
	• Adjustable length, finely adjustable from 10° to 10°	-	31	B	<b>3SE2 200-6U</b>	1	1 unit	102 0.095
		-	50		-			
	<b>Rod actuators</b> Finely adjustable from 10° to 10°	-	31	B	<b>3SE2 200-6W</b>	1	1 unit	102 0.105
	• Molded-plastic rod	-	50		-			
	• Aluminum rod	-	31	B	<b>3SE2 200-6V</b>	1	1 unit	102 0.105
		-	50		-			
	• Spring rod	-	31	B	<b>3SE2 200-6S</b>	1	1 unit	102 0.110
		-	50		-			
	<b>Spring rods</b>	-	31	-	-			
	<b>Rounded plungers</b> Central fixing with M18 × 1 thread	-	31	→ B	<b>3SE2 200-6L</b>	1	1 unit	102 0.050
	<b>Roller plungers</b> Central fixing with M18 × 1 thread	-	31	→ B	<b>3SE2 200-6M</b>	1	1 unit	102 0.085

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/12).

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

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









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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 31 mm and 50 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50047 · Special width 50 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50047	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm						
				Ident. No. <b>02</b> according to EN 50013				
				Order No.	Price per PU			kg
<b>Molded-plastic enclosures, 31 mm and 50 mm</b>								
	<b>Rounded plungers</b>	B	31	→ B	<b>3SE2 200-8CV00</b>	1	1 unit	102 0.060
		-	50	→ B	<b>3SE2 210-8CV00</b>	1	1 unit	102 0.105
	<b>Roller plungers</b>	C	31	→ B	<b>3SE2 200-8DV00</b>	1	1 unit	102 0.105
		-	50	→ B	<b>3SE2 210-8DV00</b>	1	1 unit	102 0.115
	<b>Roller levers</b>	E	31	→ B	<b>3SE2 200-8EV00</b>	1	1 unit	102 0.105
		-	50	→ B	<b>3SE2 210-8EV00</b>	1	1 unit	102 0.115
	<b>Angular roller levers</b>	-	31	→ B	<b>3SE2 200-8FV00</b>	1	1 unit	102 0.105
		-	50	→ B	<b>3SE2 210-8FV00</b>	1	1 unit	102 0.125
	<b>Twist levers</b>							
	• Finely adjustable from 10° to 10°	A	31	→ B	<b>3SE2 200-8GV00</b>	1	1 unit	102 0.135
		-	50	→ B	<b>3SE2 210-8GV00</b>	1	1 unit	102 0.100
	• Adjustable length, finely adjustable from 10° to 10°	-	31	B	<b>3SE2 200-8UV00</b>	1	1 unit	102 0.150
		-	50	B	<b>3SE2 210-8UV00</b>	1	1 unit	102 0.145
	<b>Rod actuators</b>							
	Finely adjustable from 10° to 10°							
	• Molded-plastic rod	-	31	B	<b>3SE2 200-8WV00</b>	1	1 unit	102 0.160
		-	50	B	<b>3SE2 210-8WV00</b>	1	1 unit	102 0.175
	• Aluminum rod	-	31	B	<b>3SE2 200-8VV00</b>	1	1 unit	102 0.170
		-	50	B	<b>3SE2 210-8VV00</b>	1	1 unit	102 0.180
	• Spring rod	-	31	B	<b>3SE2 200-8SV00</b>	1	1 unit	102 0.090
		-	50	B	<b>3SE2 210-8SV00</b>	1	1 unit	102 0.130
	<b>Spring rods</b>	-	31	B	<b>3SE2 200-8RV00</b>	1	1 unit	102 0.125

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

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










1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/12).

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 31 mm and 50 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50047 · Special width 50 mm  
Expansion range: with M12 plug, 4-pole · With high-grade steel roller · With chlorinated rubber membrane

Actuator	Actuator design acc. to EN 50047	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 <p>Ident. No. <b>11</b> according to EN 50013 Order No. Price per PU</p>				kg	
<b>Molded-plastic enclosures, 31 mm</b>									
	<b>Rounded plungers</b>	B	31	<ul style="list-style-type: none"> <li>• With M12 plug, 4-pole, fixed</li> <li>• With chlorinated rubber membrane</li> </ul>	<ul style="list-style-type: none"> <li>→ B <b>3SE2 200-1CV00-0AC4</b></li> <li>→ B <b>3SE2 200-1CV00-0AH0</b></li> </ul>	1	1 unit	102	0.080
	<b>Roller plungers</b>	C	31	<ul style="list-style-type: none"> <li>• With M12 plug, 4-pole, fixed</li> <li>• With high-grade steel roller</li> <li>• With chlorinated rubber membrane<sup>1)</sup></li> </ul>	<ul style="list-style-type: none"> <li>→ B <b>3SE2 200-1DV00-0AC4</b></li> <li>→ B <b>3SE2 200-1DV00-0AA3</b></li> </ul>	1	1 unit	102	0.085
	<b>Roller levers, molded-plastic roller</b>	E	31	<ul style="list-style-type: none"> <li>• With M12 plug, 4-pole, fixed</li> <li>• With high-grade steel roller</li> <li>• With chlorinated rubber membrane<sup>1)</sup></li> </ul>	<ul style="list-style-type: none"> <li>→ B <b>3SE2 200-1EV00-0AC4</b></li> <li>→ B <b>3SE2 200-1EV00-0AA3</b></li> </ul>	1	1 unit	102	0.080
	<b>Angular roller levers</b>	–	31	<ul style="list-style-type: none"> <li>• With M12 plug, 4-pole, fixed</li> <li>• With high-grade steel roller</li> <li>• With chlorinated rubber membrane<sup>1)</sup></li> </ul>	<ul style="list-style-type: none"> <li>→ B <b>3SE2 200-1FV00-0AC4</b></li> <li>→ B <b>3SE2 200-1FV00-0AA3</b></li> </ul>	1	1 unit	102	0.100
	<b>Twist levers</b>		31	<ul style="list-style-type: none"> <li>• Finely adjustable from 10° to 10° A</li> <li>- With M12 plug, 4-pole, fixed</li> <li>- With high-grade steel roller</li> <li>- With chlorinated rubber membrane<sup>1)</sup></li> </ul>	<ul style="list-style-type: none"> <li>→ B <b>3SE2 200-1GV00-0AC4</b></li> <li>→ B <b>3SE2 200-1GV00-0AA3</b></li> </ul>	1	1 unit	102	0.095
	<ul style="list-style-type: none"> <li>• Adjustable length, finely adjustable from 10° to 10°</li> <li>- With M12 plug, 4-pole, fixed</li> <li>- With high-grade steel roller</li> <li>- With chlorinated rubber membrane</li> </ul>	–	31		<ul style="list-style-type: none"> <li>B <b>3SE2 200-1UV00-0AC4</b></li> <li>B <b>3SE2 200-1UV00-0AA3</b></li> <li>B <b>3SE2 200-1UV00-0AH0</b></li> </ul>	1	1 unit	102	0.100
	<b>Spring rods</b>	–	31	<ul style="list-style-type: none"> <li>• With M12 plug, 4-pole, fixed<sup>2)</sup></li> <li>• With chlorinated rubber membrane</li> </ul>	<ul style="list-style-type: none"> <li>B <b>3SE2 200-1RV00-0AH0</b></li> </ul>	On req.	1 unit	102	0.090

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

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

- Order position switch with rounded plunger, Order No. 3SE2 200-1CV00-0AH0 plus the matching actuator for self-assembly. See Accessories, page 8/12.
- Order position switch with rounded plunger, Order No. 3SE2 200-1CV00-0AC4 plus the spring rod actuator for self-assembly. See Accessories, page 8/12.

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches














Molded-plastic enclosures, 31 mm and 50 mm

### Accessories

#### Actuators for molded-plastic enclosures, 31 mm and 50 mm

The actuator heads of the position switches can be subsequently exchanged.

The basic version is the 3SE2 2.0-.C rounded plunger. The other actuator heads can be plugged onto it (exception: position switch with teflon plunger).

Actuator with fixing screws	Can be used for position switches	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg			
<b>Complete actuators</b>											
	<b>Roller plungers</b> 3SE2 200-. D, 3SE2 210-. D	▶	3SE2 200-. D	▶	3SE2 210-. D	▶	▶	▶			
			▶						▶	▶	▶
	<b>Roller levers</b> 3SE2 200-. E, 3SE2 210-. E	▶	3SE2 200-. E	▶	3SE2 210-. E	▶	▶	▶			
			▶						▶	▶	▶
	<b>Angular roller levers</b> 3SE2 200-. F, 3SE2 210-. F	▶	3SE2 200-. F	▶	3SE2 210-. F	▶	▶	▶			
			▶						▶	▶	▶
	<b>Twist levers</b> • Finely adjustable from 10° to 10°, with plastic roller (standard)	▶	3SE2 200-. G, 3SE2 210-. G	▶	3SE2 210-. G	▶	▶	▶			
			▶						▶	▶	▶
	• Adjustable length, finely adjustable from 10° to 10°, with plastic roller (standard)	▶	3SE2 200-. U, 3SE2 210-. U	▶	3SE2 210-. U	▶	▶	▶			
			▶						▶	▶	▶
	<b>Rod actuators</b> Finely adjustable from 10° to 10°	▶	3SE2 200-. W, 3SE2 210-. W	▶	3SE2 210-. W	▶	▶	▶			
			▶						▶	▶	▶
			▶						▶	▶	▶
			▶						▶	▶	▶
	<b>Spring rods</b> <sup>1)</sup> • With plastic plunger, 50 mm (standard)	▶	3SE2 200-. R, 3SE2 210-. R	▶	3SE2 210-. R	▶	▶	▶			
			▶						▶	▶	▶
	<b>Rounded plungers</b> Central fixing with M18 × 1 thread	▶	3SE2 200-. L, 3SE2 210-. L	▶	3SE2 210-. L	▶	▶	▶			
			▶						▶	▶	▶
	<b>Roller plungers</b> Central fixing with M18 × 1 thread	▶	3SE2 200-. M, 3SE2 210-. M	▶	3SE2 210-. M	▶	▶	▶			
			▶						▶	▶	▶
	<b>Actuator heads</b> (without lever) 3SE2 200-. G, -U, -V, -W, -S 3SE2 210-. G, -U, -V, -W, -S	▶	3SE2 200-. G, -U, -V, -W, -S	▶	3SE2 210-. G, -U, -V, -W, -S	▶	▶	▶			
			▶						▶	▶	▶
	<b>Twist levers</b> With high-grade steel roller	▶	3SE2 200-. M, 3SE2 210-. M	▶	3SE2 210-. M	▶	▶	▶			
			▶						▶	▶	▶
<b>Actuators with separate actuator head</b>											
	<b>Actuator heads</b> (without lever) 3SE2 200-. G, -U, -V, -W, -S 3SE2 210-. G, -U, -V, -W, -S	▶	3SE2 200-. G, -U, -V, -W, -S	▶	3SE2 210-. G, -U, -V, -W, -S	▶	▶	▶			
			▶						▶	▶	▶
	<b>Twist levers</b> With high-grade steel roller	▶	3SE2 200-. M, 3SE2 210-. M	▶	3SE2 210-. M	▶	▶	▶			
			▶						▶	▶	▶

1) Only for snap-action contacts.








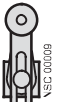

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 40 mm

### Selection and ordering data

2 contacts · Moving double-break contacts · Degree of protection IP66 · EN 50041

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 <p>Ident. No. <b>11</b> according to EN 50013</p> <p>Order No.      Price per PU</p>				kg
<b>Molded-plastic enclosures, 40 mm</b>								
	<b>Rounded plungers</b>	B	40	→ B	<b>3SE2 230-0C</b>	1	1 unit	102 0.115
	<b>Roller plungers</b>	C	40	→ B	<b>3SE2 230-0D</b>	1	1 unit	102 0.120
	<b>Roller levers</b>	–	40	→ B	<b>3SE2 230-0E</b>	1	1 unit	102 0.130
	<b>Angular roller levers</b>	–	40	→ B	<b>3SE2 230-0F</b>	1	1 unit	102 0.130
	<b>Twist levers</b>							
	• Finely adjustable from 10° to 10°	A	40	→ B	<b>3SE2 230-0GW</b>	1	1 unit	102 0.155
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 230-0U</b>	1	1 unit	102 0.160
	<b>Rod actuators</b>	D						
	Finely adjustable from 10° to 10°							
	• Molded-plastic rod		40	B	<b>3SE2 230-0W</b>	1	1 unit	102 0.165
	• Aluminum rod		40	B	<b>3SE2 230-0V</b>	1	1 unit	102 0.190

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/19).










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

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 40 mm

2 contacts · Moving double-break contacts · Degree of protection IP66 · EN 50041

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 <p>Ident. No. <b>11</b> according to EN 50013 Order No. Price per PU</p>				kg	
<b>Molded-plastic enclosures, 40 mm</b>									
	<b>Rounded plungers</b>	B	40	→ B	<b>3SE2 230-1C</b>	1	1 unit	102	0.120
	<b>Roller plungers</b>	C	40	→ B	<b>3SE2 230-1D</b>	1	1 unit	102	0.120
	<b>Roller levers</b>	–	40	→ B	<b>3SE2 230-1E</b>	1	1 unit	102	0.130
	<b>Angular roller levers</b>	–	40	→ B	<b>3SE2 230-1F</b>	1	1 unit	102	0.132
	<b>Twist levers</b>								
	• Finely adjustable from 10° to 10°	A	40	→ B	<b>3SE2 230-1GW</b>	1	1 unit	102	0.155
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 230-1U</b>	1	1 unit	102	0.160
	<b>Rod actuators</b>	D							
	Finely adjustable from 10° to 10°								
	• Molded-plastic rod		40	B	<b>3SE2 230-1W</b>	1	1 unit	102	0.160
	• Aluminum rod		40	B	<b>3SE2 230-1V</b>	1	1 unit	102	0.170
	<b>Spring rods</b>	–	40	B	<b>3SE2 230-1R</b>	1	1 unit	102	0.150

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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


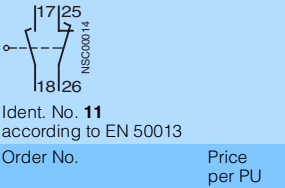





1) The actuator heads can be subsequently replaced with other versions (see page 8/19).

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 40 mm

2 contacts · Moving double-break contacts · Degree of protection IP66 · EN 50041

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 slow-action make-before-break contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm						kg
<b>Molded-plastic enclosures, 40 mm</b>								
	<b>Rounded plungers</b>	B	40	→ B	<b>3SE2 230-3C</b>	1	1 unit	102 0.115
	<b>Roller plungers</b>	C	40	→ B	<b>3SE2 230-3D</b>	1	1 unit	102 0.130
	<b>Roller levers</b>	–	40	→ B	<b>3SE2 230-3E</b>	1	1 unit	102 0.130
	<b>Angular roller levers</b>	–	40	→ B	<b>3SE2 230-3F</b>	1	1 unit	102 0.135
	<b>Twist levers</b> • Finely adjustable from 10° to 10°	A	40	→ B	<b>3SE2 230-3GW</b>	1	1 unit	102 0.150

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/19).

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 40 mm

2 contacts · Moving double-break contacts · Degree of protection IP66 · EN 50041

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 <p>Ident. No. <b>20</b> according to EN 50013 Order No. Price per PU</p>				kg
<b>Molded-plastic enclosures, 40 mm</b>								
	<b>Rounded plungers</b>	B	40	B	<b>3SE2 230-7C</b>	1	1 unit	102 0.125
	<b>Roller plungers</b>	C	40	B	<b>3SE2 230-7D</b>	1	1 unit	102 0.135
	<b>Roller levers</b>	–	40	B	<b>3SE2 230-7E</b>	1	1 unit	102 0.130
	<b>Angular roller levers</b>	–	40	B	<b>3SE2 230-7F</b>	1	1 unit	102 0.140
	<b>Twist levers</b>							
	• Finely adjustable from 10° to 10°	A	40	B	<b>3SE2 230-7GD</b>	1	1 unit	102 0.150
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 230-7U</b>	1	1 unit	102 0.160
	<b>Rod actuators</b>	D						
	Finely adjustable from 10° to 10°							
	• Molded-plastic rod		40	B	<b>3SE2 230-7W</b>	1	1 unit	102 0.160
	• Aluminum rod		40	B	<b>3SE2 230-7V</b>	1	1 unit	102 0.170

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/19).











# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 40 mm

2 contacts · Moving double-break contacts · Degree of protection IP66 · EN 50041

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 <p>Ident. No. <b>02</b> according to EN 50013 Order No. Price per PU</p>				kg	
<b>Molded-plastic enclosures, 40 mm</b>									
	<b>Rounded plungers</b>	B	40	→ B	<b>3SE2 230-6C</b>	1	1 unit	102	0.115
	<b>Roller plungers</b>	C	40	→ B	<b>3SE2 230-6D</b>	1	1 unit	102	0.120
	<b>Roller levers</b>	–	40	→ B	<b>3SE2 230-6E</b>	1	1 unit	102	0.130
	<b>Angular roller levers</b>	–	40	→ B	<b>3SE2 230-6F</b>	1	1 unit	102	0.135
	<b>Twist levers</b>								
	• Finely adjustable from 10° to 10°	A	40	→ B	<b>3SE2 230-6GW</b>	1	1 unit	102	0.145
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 230-6U</b>	1	1 unit	102	0.160
	<b>Rod actuators</b>	D							
	Finely adjustable from 10° to 10°								
	• Molded-plastic rod		40	B	<b>3SE2 230-6W</b>	1	1 unit	102	0.160
	• Aluminum rod		40	B	<b>3SE2 230-6V</b>	1	1 unit	102	0.170

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/19).

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

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







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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 40 mm

2 contacts · Moving double-break contacts · Degree of protection IP66 · EN 50041

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 <p>Ident. No. <b>02</b> according to EN 50013 Order No. Price per PU</p>				kg	
<b>Molded-plastic enclosures, 40 mm</b>									
	<b>Rounded plungers</b>	B	40	→ B	<b>3SE2 230-8CV00</b>	1	1 unit	102	0.130
	<b>Roller plungers</b>	C	40	→ B	<b>3SE2 230-8DV00</b>	1	1 unit	102	0.120
	<b>Roller levers</b>	–	40	→ B	<b>3SE2 230-8EV00</b>	1	1 unit	102	0.130
	<b>Angular roller levers</b>	–	40	→ B	<b>3SE2 230-8FV00</b>	1	1 unit	102	0.150
	<b>Twist levers</b>								
	• Finely adjustable from 10° to 10°	A	40	→ B	<b>3SE2 230-8GW00</b>	1	1 unit	102	0.180
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 230-8UW00</b>	1	1 unit	102	0.170
	<b>Rod actuators</b>	D							
	Finely adjustable from 10° to 10°								
	• Molded-plastic rod		40	B	<b>3SE2 230-8WW00</b>	1	1 unit	102	0.195
	• Aluminum rod		40	B	<b>3SE2 230-8VW00</b>	1	1 unit	102	0.200
	<b>Spring rods</b>	–	40	B	<b>3SE2 230-8RV00</b>	1	1 unit	102	0.160

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/19).

# 3SE2, 3SE3, 3SF3 Position Switches




## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 40 mm

### Accessories

#### Actuators for molded-plastic enclosures, 40 mm

The actuator heads of the position switches can be subsequently exchanged.

	Actuator with fixing screws and seal	Can be used for position switches	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Complete actuators</b>									
	<b>Rounded plungers</b>	3SE2 230-.C	B	<b>3SX3 160</b>		1	1 unit	102	0.021
	<b>Roller plungers</b>	3SE2 230-.D	A	<b>3SX3 161</b>		1	1 unit	102	0.024
	<ul style="list-style-type: none"> <li>With plastic roller, Ø 13 mm (standard)</li> <li>With high-grade steel roller, Ø 13 mm</li> </ul>		B	<b>3SX3 262</b>		1	1 unit	102	0.010
	<b>Roller levers</b>	3SE2 230-.E	▶	<b>3SX3 164</b>		1	1 unit	102	0.034
	<ul style="list-style-type: none"> <li>With plastic roller, Ø 22 mm (standard)</li> <li>With high-grade steel roller, Ø 22 mm</li> </ul>			–					
	<b>Angular roller levers</b>	3SE2 230-.F	B	<b>3SX3 168</b>		1	1 unit	102	0.036
	<ul style="list-style-type: none"> <li>With plastic roller, Ø 22 mm (standard)</li> <li>With high-grade steel roller, Ø 22 mm</li> </ul>			–					
	<b>Twist levers</b>	3SE2 230-.GW	B	<b>3SX3 167</b>		1	1 unit	102	0.048
	<ul style="list-style-type: none"> <li>Finely adjustable from 10° to 10°, (supplied with plunger)</li> <li>- With plastic roller, Ø 19 mm (standard)</li> </ul>								
	<b>Twist levers</b>	3SE2 230-.U	B	<b>3SX3 163</b>		1	1 unit	102	0.058
	<ul style="list-style-type: none"> <li>Adjustable length, finely adjustable from 10° to 10°, (supplied with plunger)</li> <li>- With plastic roller, Ø 19 mm (standard)</li> </ul>								
	<b>Rod actuators.</b> Adjustable length	3SE2 230-.V	B	<b>3SX3 165</b>		1	1 unit	102	0.069
	<ul style="list-style-type: none"> <li>With aluminum rod</li> <li>With plastic rod (supplied with plunger)</li> </ul>	3SE2 230-.W	B	<b>3SX3 166</b>		1	1 unit	102	0.061
	<b>Spring rods</b> <sup>1)</sup>	3SE2 230-.R	B	<b>3SX3 210</b>		1	1 unit	102	0.051
	<ul style="list-style-type: none"> <li>Spring 50 mm, plastic plunger 50 mm (standard)</li> <li>Spring 50 mm, high-grade steel plunger 50 mm</li> <li>Spring 150 mm, high-grade steel plunger 50 mm</li> <li>Spring 23.5 mm, plastic plunger 10 mm</li> <li>Spring 23.5 mm, plastic plunger 50 mm</li> <li>Spring 50 mm, plastic plunger 50 mm, increased corrosion protection</li> <li>Spring 150 mm, plastic plunger 50 mm</li> </ul>		B	<b>3SX3 281</b>		1	1 unit	102	0.060
			B	<b>3SX3 311</b>		1	1 unit	102	0.080
			B	<b>3SX3 282</b>		1	1 unit	102	0.020
			B	<b>3SX3 285</b>		1	1 unit	102	0.020
			B	<b>3SX3 284</b>		1	1 unit	102	0.050
			B	<b>3SX3 283</b>		1	1 unit	102	0.070

1) Only for snap-action contacts.

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




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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Molded-plastic enclosures, 40 mm

Actuator with fixing screws and seal		Can be used for position switches	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Actuators with separate actuator head</b>									
	<b>Actuator heads (without lever)</b>	3SE2 230--GW, 3SE2 230--U, 3SE2 230--V, 3SE2 230--W	B	<b>3SX3 305</b>		1	1 unit	102	0.030
	<b>Twist levers (without head)</b>								
	• Finely adjustable from 10° to 10°	3SE2 230--GW				1	1 unit	102	0.020
	- Plastic roller, Ø 19 mm (standard)		▶	<b>3SX3 212</b>		1	1 unit	102	0.020
	- With high-grade steel roller, Ø 19 mm		B	<b>3SX3 265</b>		1	1 unit	102	0.025
	- With plastic roller, Ø 30 mm		B	<b>3SX3 278</b>		1	1 unit	102	0.020
	- With plastic roller, Ø 50 mm		B	<b>3SX3 301</b>		1	1 unit	102	0.020
	- With rubber roller, Ø 50 mm		B	<b>3SX3 280</b>		1	1 unit	102	0.020
	• Adjustable length, finely adjustable from 10° to 10°	3SE2 230--U							
	- Plastic roller, Ø 19 mm (standard)		▶	<b>3SX3 213</b>		1	1 unit	102	0.024
	- With high-grade steel roller, Ø 19 mm		B	<b>3SX3 268</b>		1	1 unit	102	0.030
	- With plastic roller, Ø 30 mm		B	<b>3SX3 302</b>		1	1 unit	102	0.025
	- With rubber roller, Ø 50 mm		B	<b>3SX3 304</b>		1	1 unit	102	0.020


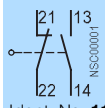







# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

### Selection and ordering data

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041 · Special width 56 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 <p>Ident. No. 11 according to EN 50013</p> <p>Order No. Price per PU</p>				kg	
<b>Metal enclosures, 40 mm and 56 mm</b>									
	<b>Plungers</b>	–	40	→ ▶	<b>3SE2 120-0B</b>	1	1 unit	102	0.190
	Molded-plastic head with plunger of high-grade steel	–	56	→ B	<b>3SE2 100-0B</b>	1	1 unit	102	0.220
	<b>Rounded plungers</b>	B	40	→ ▶	<b>3SE2 120-0C</b>	1	1 unit	102	0.230
	Molded-plastic head with plunger of high-grade steel	–	56	→ B	<b>3SE2 100-0C</b>	1	1 unit	102	0.258
	<b>Roller plungers</b>	C	40	→ ▶	<b>3SE2 120-0D</b>	1	1 unit	102	0.250
	Brass roller	–	56	→ B	<b>3SE2 100-0D</b>	1	1 unit	102	0.280
	<b>Roller levers</b>	–	40	→ ▶	<b>3SE2 120-0E</b>	1	1 unit	102	0.210
	Molded-plastic roller	–	56	→ ▶	<b>3SE2 100-0E</b>	1	1 unit	102	0.240
	<b>Angular roller levers</b>	–	40	→ ▶	<b>3SE2 120-0F</b>	1	1 unit	102	0.225
	Molded-plastic roller	–	56	→ B	<b>3SE2 100-0F</b>	1	1 unit	102	0.240
	<b>Twist levers</b>								
	Molded-plastic roller								
	• Finely adjustable from 10° to 10°	A	40	→ ▶	<b>3SE2 120-0GW</b>	1	1 unit	102	0.305
		–	56	→ B	<b>3SE2 100-0GW</b>	1	1 unit	102	0.335
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 120-0UW</b>	1	1 unit	102	0.315
		–	56	B	<b>3SE2 100-0UW</b>	1	1 unit	102	0.333
	<b>Rod actuators</b>	D							
	Finely adjustable from 10° to 10°								
	• Molded-plastic rod		40	B	<b>3SE2 120-0WW</b>	1	1 unit	102	0.315
			56	B	<b>3SE2 100-0WW</b>	1	1 unit	102	0.348
	• Aluminium rod		40	B	<b>3SE2 120-0VW</b>	1	1 unit	102	0.321
			56	B	<b>3SE2 100-0VW</b>	1	1 unit	102	0.354

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For reusable packaging, see Appendix.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/38).

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

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



















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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041 · Special width 56 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		40	→	<b>3SE2 120-1B</b>	1	1 unit	102	0.190
		56	→ B	<b>3SE2 100-1B</b>	1	1 unit	102	0.225
	B	40	→	<b>3SE2 120-1C</b>	1	1 unit	102	0.230
		56	→ B	<b>3SE2 100-1C</b>	1	1 unit	102	0.260
	C	40	→	<b>3SE2 120-1D</b>	1	1 unit	102	0.255
		56	→	<b>3SE2 100-1D</b>	1	1 unit	102	0.279
		40	→	<b>3SE2 120-1E</b>	1	1 unit	102	0.210
		56	→ B	<b>3SE2 100-1E</b>	1	1 unit	102	0.239
		40	→	<b>3SE2 120-1F</b>	1	1 unit	102	0.225
		56	→ B	<b>3SE2 100-1F</b>	1	1 unit	102	0.242
		40	→	<b>3SE2 120-1GW</b>	1	1 unit	102	0.305
	A	56	→ B	<b>3SE2 100-1GW</b>	1	1 unit	102	0.331
		40	→	<b>3SE2 120-1UW</b>	1	1 unit	102	0.315
		56	B	<b>3SE2 100-1UW</b>	1	1 unit	102	0.336
	D							
	Finely adjustable from 10° to 10°							
		40	B	<b>3SE2 120-1WW</b>	1	1 unit	102	0.315
		56	B	<b>3SE2 100-1WW</b>	1	1 unit	102	0.346
		40	→	<b>3SE2 120-1VW</b>	1	1 unit	102	0.320
		56	B	<b>3SE2 100-1VW</b>	1	1 unit	102	0.355
		40	B	<b>3SE2 120-1R</b>	1	1 unit	102	0.230
		56	B	<b>3SE2 100-1R</b>	1	1 unit	102	0.270
		40	B	<b>3SE2 120-1T</b>	1	1 unit	102	0.340
	Latching, molded-plastic rollers	56	B	<b>3SE2 100-1T</b>	1	1 unit	102	0.360

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

For spare switch blocks, see page 8/43.

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


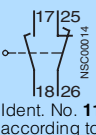







1) The actuator heads can be subsequently replaced with other versions (see page 8/38).

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041 · Special width 56 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 slow-action make-before-break contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 Ident. No. 11 according to EN 50013				
				Order No.	Price per PU			kg
<b>Metal enclosures, 40 mm and 56 mm</b>								
	<b>Plungers</b>	–	40	→ B	<b>3SE2 120-3B</b>	1	1 unit	102 0.195
	Molded-plastic head with plunger of high-grade steel	–	56	→ B	<b>3SE2 100-3B</b>	1	1 unit	102 0.222
	<b>Rounded plungers</b>	B	40	→ B	<b>3SE2 120-3C</b>	1	1 unit	102 0.230
	Molded-plastic head with plunger of high-grade steel	–	56	→ B	<b>3SE2 100-3C</b>	1	1 unit	102 0.259
	<b>Roller plungers</b>	C	40	→ B	<b>3SE2 120-3D</b>	1	1 unit	102 0.250
	Brass roller	–	56	→ B	<b>3SE2 100-3D</b>	1	1 unit	102 0.277
	<b>Roller levers</b>	–	40	→ B	<b>3SE2 120-3E</b>	1	1 unit	102 0.209
	Molded-plastic roller	–	56	→ B	<b>3SE2 100-3E</b>	1	1 unit	102 0.239
	<b>Angular roller levers</b>	–	40	→ B	<b>3SE2 120-3F</b>	1	1 unit	102 0.220
	Molded-plastic roller	–	56	→ B	<b>3SE2 100-3F</b>	1	1 unit	102 0.236
	<b>Twist levers</b>							
	Molded-plastic roller							
	• Finely adjustable from 10° to 10°	–	40	→ B	<b>3SE2 120-3GW</b>	1	1 unit	102 0.305
		–	56	→ B	<b>3SE2 100-3GW</b>	1	1 unit	102 0.328
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 120-3UW</b>	1	1 unit	102 0.315
		–	56	B	<b>3SE2 100-3UW</b>	1	1 unit	102 0.336
	<b>Rod actuators</b>	D						
	Finely adjustable from 10° to 10°							
	• Molded-plastic rod		40	B	<b>3SE2 120-3WW</b>	1	1 unit	102 0.190
			56	B	<b>3SE2 100-3WW</b>	1	1 unit	102 0.200
	• Aluminium rod		40	B	<b>3SE2 120-3VW</b>	1	1 unit	102 0.190
			56	B	<b>3SE2 100-3VW</b>	1	1 unit	102 0.200

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/38).

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

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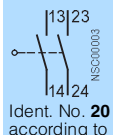







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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches


Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041 · Special width 56 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 <p>Ident. No. <b>20</b> according to EN 50013</p>					
				Order No.	Price per PU				
<b>Metal enclosures, 40 mm and 56 mm</b>								kg	
	<b>Plungers</b>	–	40	B	<b>3SE2 120-7B</b>	1	1 unit	102	0.160
	Molded-plastic head with plunger of high-grade steel	–	56	B	<b>3SE2 100-7B</b>	1	1 unit	102	0.220
	<b>Rounded plungers</b>	B	40	B	<b>3SE2 120-7C</b>	1	1 unit	102	0.230
	Molded-plastic head with plunger of high-grade steel	–	56	B	<b>3SE2 100-7C</b>	1	1 unit	102	0.258
	<b>Roller plungers</b>	C	40	B	<b>3SE2 120-7D</b>	1	1 unit	102	0.250
	Brass roller	–	56	B	<b>3SE2 100-7D</b>	1	1 unit	102	0.276
	<b>Roller levers</b>	–	40	B	<b>3SE2 120-7E</b>	1	1 unit	102	0.210
	Molded-plastic roller	–	56	B	<b>3SE2 100-7E</b>	1	1 unit	102	0.235
	<b>Angular roller levers</b>	–	40	B	<b>3SE2 120-7F</b>	1	1 unit	102	0.220
	Molded-plastic roller	–	56	B	<b>3SE2 100-7F</b>	1	1 unit	102	0.236
	<b>Twist levers</b>								
	Molded-plastic roller								
	• Finely adjustable from 10° to 10°	A	40	B	<b>3SE2 120-7GW</b>	1	1 unit	102	0.305
		–	56	B	<b>3SE2 100-7GW</b>	1	1 unit	102	0.335
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 120-7UW</b>	1	1 unit	102	0.315
		–	56	B	<b>3SE2 100-7UW</b>	1	1 unit	102	0.336
	<b>Rod actuators</b>	D							
	Finely adjustable from 10° to 10°								
	• Molded-plastic rod		40	B	<b>3SE2 120-7WW</b>	1	1 unit	102	0.310
			56	B	<b>3SE2 100-7WW</b>	1	1 unit	102	0.346
	• Aluminium rod		40	B	<b>3SE2 120-7VW</b>	1	1 unit	102	0.315
			56	B	<b>3SE2 100-7VW</b>	1	1 unit	102	0.350

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/38).












# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041 · Special width 56 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		mm		 Ident. No. <b>02</b> according to EN 50013 Order No. Price per PU				kg	
<b>Metal enclosures, 40 mm and 56 mm</b>									
	<b>Plungers</b>	–	40	→ B	<b>3SE2 120-6B</b>	1	1 unit	102	0.230
	Molded-plastic head with plunger of high-grade steel	–	56	→ B	<b>3SE2 100-6B</b>	1	1 unit	102	0.218
	<b>Rounded plungers</b>	B	40	→ B	<b>3SE2 120-6C</b>	1	1 unit	102	0.230
	Molded-plastic head with plunger of high-grade steel	–	56	→ B	<b>3SE2 100-6C</b>	1	1 unit	102	0.248
	<b>Roller plungers</b>	C	40	→ B	<b>3SE2 120-6D</b>	1	1 unit	102	0.250
	Brass roller	–	56	→ B	<b>3SE2 100-6D</b>	1	1 unit	102	0.280
	<b>Roller levers</b>	–	40	→ B	<b>3SE2 120-6E</b>	1	1 unit	102	0.210
	Molded-plastic roller	–	56	→ B	<b>3SE2 100-6E</b>	1	1 unit	102	0.235
	<b>Angular roller levers</b>	–	40	→ B	<b>3SE2 120-6F</b>	1	1 unit	102	0.220
	Molded-plastic roller	–	56	→ B	<b>3SE2 100-6F</b>	1	1 unit	102	0.240
	<b>Twist levers</b>								
	Molded-plastic roller								
	• Finely adjustable from 10° to 10°	A	40	→ B	<b>3SE2 120-6GW</b>	1	1 unit	102	0.305
		–	56	→ B	<b>3SE2 100-6GW</b>	1	1 unit	102	0.330
	• Adjustable length, finely adjustable from 10° to 10°	–	40	B	<b>3SE2 120-6UW</b>	1	1 unit	102	0.315
		–	56	B	<b>3SE2 100-6UW</b>	1	1 unit	102	0.350
	<b>Rod actuators</b>	D							
	Finely adjustable from 10° to 10°								
	• Molded-plastic rod		40	B	<b>3SE2 120-6WW</b>	1	1 unit	102	0.315
			56	B	<b>3SE2 100-6WW</b>	1	1 unit	102	0.340
	• Aluminium rod		40	B	<b>3SE2 120-6VW</b>	1	1 unit	102	0.325
			56	B	<b>3SE2 100-6VW</b>	1	1 unit	102	0.350

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/38).

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

Siemens LV 1 · 2006




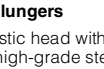



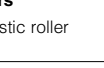

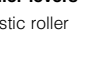

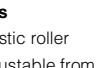

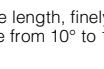

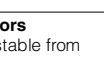

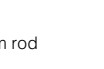


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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041 · Special width 56 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		40	→ B	<b>3SE2 120-8BV00</b>	1	1 unit	102	0.200
		56	→ B	<b>3SE2 100-8BV00</b>	1	1 unit	102	0.230
	B	40	→ B	<b>3SE2 120-8CV00</b>	1	1 unit	102	0.345
		56	→ B	<b>3SE2 100-8CV00</b>	1	1 unit	102	0.315
	C	40	→ B	<b>3SE2 120-8DV00</b>	1	1 unit	102	0.360
		56	→ B	<b>3SE2 100-8DV00</b>	1	1 unit	102	0.320
		40	→ B	<b>3SE2 120-8EV00</b>	1	1 unit	102	0.370
		56	→ B	<b>3SE2 100-8EV00</b>	1	1 unit	102	0.325
		40	→ B	<b>3SE2 120-8FV00</b>	1	1 unit	102	0.370
		56	→ B	<b>3SE2 100-8FV00</b>	1	1 unit	102	0.330
		40	→ B	<b>3SE2 120-8GW00</b>	1	1 unit	102	0.395
	A	56	→ B	<b>3SE2 100-8GW00</b>	1	1 unit	102	0.350
		40	B	<b>3SE2 120-8UW00</b>	1	1 unit	102	0.410
	Adjustable length, finely adjustable from 10° to 10°	56	B	<b>3SE2 100-8UW00</b>	1	1 unit	102	0.365
	D	40	B	<b>3SE2 120-8VW00</b>	1	1 unit	102	0.420
	Finely adjustable from 10° to 10°	56	B	<b>3SE2 100-8VW00</b>	1	1 unit	102	0.380
		40	B	<b>3SE2 120-8RV00</b>	1	1 unit	102	0.230
	Molded-plastic rod	56	B	<b>3SE2 100-8RV00</b>	1	1 unit	102	0.385
		40	B	<b>3SE2 120-8RW00</b>	1	1 unit	102	0.230
	Aluminium rod	56	B	<b>3SE2 100-8RW00</b>	1	1 unit	102	0.250

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.  
For reusable packaging, see Appendix.

For spare switch blocks, see page 8/43.

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


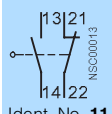









1) The actuator heads can be subsequently replaced with other versions (see page 8/38).

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041  
Expansion range with M12 plug, 4-pole or 5-pole<sup>1)</sup>

Actuator	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 Ident. No. <b>11</b> according to EN 50013 Order No.				kg
<b>Metal enclosures, 40 mm</b>								
<b>Basic enclosures without actuator</b>		–	40					
• With M12 plug, 4-pole, fixed				B	<b>3SE2 120-1AV00-0AC4</b>	1	1 unit	102 0.180
• With M12 plug, 5-pole, fixed				B	<b>3SE2 120-1AV00-0AC5</b>	1	1 unit	102 0.180
	<b>Plungers</b>	–	40					
• With M12 plug, 4-pole, fixed				→ B	<b>3SE2 120-1BV00-0AC4</b>	1	1 unit	102 0.200
• With M12 plug, 5-pole, fixed				→ B	<b>3SE2 120-1BV00-0AC5</b>	1	1 unit	102 0.200
	<b>Rounded plungers</b>	B	40					
• With M12 plug, 4-pole, fixed				→ B	<b>3SE2 120-1CV00-0AC4</b>	1	1 unit	102 0.200
• With M12 plug, 5-pole, fixed				→ B	<b>3SE2 120-1CV00-0AC5</b>	1	1 unit	102 0.200
	<b>Roller plungers</b>	C	40					
• With M12 plug, 4-pole, fixed				→ B	<b>3SE2 120-1DV00-0AC4</b>	1	1 unit	102 0.265
• With M12 plug, 5-pole, fixed				→ B	<b>3SE2 120-1DV00-0AC5</b>	1	1 unit	102 0.265
	<b>Roller levers, molded-plastic roller</b>	–	40					
• With M12 plug, 4-pole, fixed				→ B	<b>3SE2 120-1EV00-0AC4</b>	1	1 unit	102 0.225
• With M12 plug, 5-pole, fixed				→ B	<b>3SE2 120-1EV00-0AC5</b>	1	1 unit	102 0.200
	<b>Angular roller levers</b>	–	40					
• With M12 plug, 4-pole, fixed				→ B	<b>3SE2 120-1FV00-0AC4</b>	1	1 unit	102 0.230
• With M12 plug, 5-pole, fixed				→ B	<b>3SE2 120-1FV00-0AC5</b>	1	1 unit	102 0.230
	<b>Twist levers</b>		40					
• Finely adjustable from 10° to 10° A								
- With M12 plug, 4-pole, fixed				→ B	<b>3SE2 120-1GW00-0AC4</b>	1	1 unit	102 0.310
- With M12 plug, 5-pole, fixed				→ B	<b>3SE2 120-1GW00-0AC5</b>	1	1 unit	102 0.300
• Adjustable length, finely adjustable from 10° to 10°								
- With M12 plug, 4-pole, fixed				B	<b>3SE2 120-1UW00-0AC4</b>	1	1 unit	102 0.325
- With M12 plug, 5-pole, fixed <sup>3)</sup>					–			
	<b>Rod actuators</b>	D	40					
Finely adjustable from 10° to 10°								
• Molded-plastic rod								
- With M12 plug, 4-pole, fixed <sup>2)</sup>					–			
- With M12 plug, 5-pole, fixed <sup>3)</sup>					–			
• Aluminium rod								
- With M12 plug, 4-pole, fixed				B	<b>3SE2 120-1VW00-0AC4</b>	1	1 unit	102 0.345
- With M12 plug, 5-pole, fixed <sup>3)</sup>					–			
	<b>Spring rods</b>	–	40					
• With M12 plug, 4-pole, fixed <sup>2)</sup>					–			
• With M12 plug, 5-pole, fixed <sup>3)</sup>					–			
	<b>Fork levers, latching</b>	–	40					
• With M12 plug, 4-pole, fixed <sup>2)</sup>					–			
• With M12 plug, 5-pole, fixed <sup>3)</sup>					–			

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

1) Matching cable box to be ordered separately (see [Accessories, page 8/42](#)).

2) Order basic enclosure without actuator, Order No. 3SE2 120-1AV00-0AC4, plus the matching actuator for self-assembly (see [Accessories, page 8/38](#)).

3) Order basic enclosure without actuator, Order No. 3SE2 120-1AV00-0AC5, plus the matching actuator for self-assembly (see [Accessories, page 8/38](#)).

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

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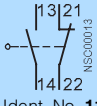









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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041  
Expansion range with plug, 6-pole + PE<sup>1)</sup>, and with quick-release device

Actuator	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 <p>Ident. No. <b>11</b> according to EN 50013</p>				
<b>Metal enclosures, 40 mm</b>								
	<b>Basic enclosure without actuator</b>	–	40					
	• With plug, 6-pole + PE			B	<b>3SE2 120-1AV00-0AD1</b>	1	1 unit	102 0.240
	• With plug, 6-pole + PE and quick-release device				–			
	<b>Plungers</b>	–	40					
	• With plug, 6-pole + PE			→ B	<b>3SE2 120-1BV00-0AD1</b>	1	1 unit	102 0.260
	• With plug, 6-pole + PE and quick-release device			→ B	<b>3SE2 120-1BV00-0AD0</b>	1	1 unit	102 0.200
	<b>Rounded plungers</b>	B	40					
	• With plug, 6-pole + PE			→ B	<b>3SE2 120-1CV00-0AD1</b>	1	1 unit	102 0.290
	• With plug, 6-pole + PE and quick-release device			→ B	<b>3SE2 120-1CV00-0AD0</b>	1	1 unit	102 0.200
	<b>Roller plungers</b>	C	40					
	• With plug, 6-pole + PE			→ B	<b>3SE2 120-1DV00-0AD1</b>	1	1 unit	102 0.285
	• With plug, 6-pole + PE and quick-release device			→ B	<b>3SE2 120-1DV00-0AD0</b>	1	1 unit	102 0.490
	<b>Roller levers, molded-plastic roller</b>	–	40					
	• With plug, 6-pole + PE			→ B	<b>3SE2 120-1EV00-0AD1</b>	1	1 unit	102 0.270
	• With plug, 6-pole + PE and quick-release device			→ B	<b>3SE2 120-1EV00-0AD0</b>	1	1 unit	102 0.200
	<b>Angular roller levers</b>	–	40					
	• With plug, 6-pole + PE			→ B	<b>3SE2 120-1FV00-0AD1</b>	1	1 unit	102 0.290
	• With plug, 6-pole + PE and quick-release device				–			
	<b>Twist levers</b>							
	• Finely adjustable from 10° to 10° A		40					
	- With plug, 6-pole + PE			→ B	<b>3SE2 120-1GW00-0AD1</b>	1	1 unit	102 0.380
	- With plug, 6-pole + PE and quick-release device			→ B	<b>3SE2 120-1GW00-0AD0</b>	1	1 unit	102 0.535
	• Adjustable length, finely adjustable from 10° to 10°		40					
	- With plug, 6-pole + PE			B	<b>3SE2 120-1UW00-0AD1</b>	1	1 unit	102 0.335
	- With plug, 6-pole + PE and quick-release device				–			
	<b>Rod actuators</b>	D	40					
	Finely adjustable from 10° to 10°							
	• Molded-plastic rod							
	- With plug, 6-pole + PE <sup>2)</sup>				–			
	- With plug, 6-pole + PE and quick-release device			B	<b>3SE2 120-1WW00-0AD0</b>	1	1 unit	102 0.300
	• Aluminium rod							
	- With plug, 6-pole + PE			B	<b>3SE2 120-1VW00-0AD1</b>	1	1 unit	102 0.335
	- With plug, 6-pole + PE and quick-release device				–			
	<b>Spring rods</b>	–	40					
	• With plug, 6-pole + PE <sup>2)</sup>				–			
	• With plug, 6-pole + PE and quick-release device				–			
	<b>Fork levers, latching</b>	–	40					
	• With plug, 6-pole + PE <sup>2)</sup>				–			
	• With plug, 6-pole + PE and quick-release device			B	<b>3SE2 120-1RV00-0AD0</b>	1	1 unit	102 0.200

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












- 1) Matching cable box to be ordered separately (see [Accessories, page 8/42](#)).
- 2) Order basic enclosure without actuator, Order No. 3SE2 120-1AV00-0AD1, plus the matching actuator for self-assembly (see [Accessories, page 8/38](#)).

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041  
Expansion range: With 1 LED · With 2 LEDs

Actuator	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 Ident. No. <b>11</b> according to EN 50013 Order No.				kg
<b>Metal enclosures, 40 mm</b>								
	<b>Basic enclosures without actuator</b>	–	40					
	• With 1 LED 24 V, yellow			B	<b>3SE2 120-1AV00-0AF0</b>	1	1 unit	102 0.185
	• With 2 LEDs 24 V, yellow and green			B	<b>3SE2 120-1AV00-0AF1</b>	1	1 unit	102 0.200
	<b>Plungers</b>	–	40					
	• With 1 LED 24 V, yellow <sup>1)</sup>							
	• With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	<b>Rounded plungers</b>	B	40					
	• With 1 LED 24 V, yellow <sup>1)</sup>							
	• With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	<b>Roller plungers</b>	C	40					
	• With 1 LED 24 V, yellow			→ B	<b>3SE2 120-1DV00-0AF0</b>	1	1 unit	102 0.250
	• With 2 LEDs 24 V, yellow and green			→ B	<b>3SE2 120-1DV00-0AF1</b>	1	1 unit	102 0.250
	<b>Roller levers, molded-plastic roller</b>	–	40					
	• With 1 LED 24 V, yellow			→ B	<b>3SE2 120-1EV00-0AF0</b>	1	1 unit	102 0.215
	• With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	<b>Angular roller levers</b>	–	40					
	• With LED <sup>1)</sup>							
	• With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	<b>Twist levers</b>		40					
	• Finely adjustable from 10° to 10° A			→ B	<b>3SE2 120-1GW00-0AF0</b>	1	1 unit	102 0.305
	- With 1 LED 24 V, yellow							
	- With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	• Adjustable length, finely adjustable from 10° to 10°		40					
	- With 1 LED 24 V, yellow			B	<b>3SE2 120-1UW00-0AF0</b>	1	1 unit	102 0.310
	- With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	<b>Rod actuators</b>	D	40					
	Finely adjustable from 10° to 10°							
	• Molded-plastic rod							
	- With 1 LED 24 V, yellow <sup>1)</sup>							
	- With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	• Aluminium rod							
	- With 1 LED 24 V, yellow <sup>1)</sup>							
	- With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	<b>Spring rod</b>	–	40					
	- With 1 LED 24 V, yellow <sup>1)</sup>							
	- With 2 LEDs 24 V, yellow and green <sup>2)</sup>							
	<b>Fork levers, latching</b>	–	40					
	• With 1 LED 24 V, yellow <sup>1)</sup>							
	• With 2 LEDs 24 V, yellow and green <sup>2)</sup>							

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

- Order basic enclosure without actuator, Order No. 3SE2 120-1AV00-0AF0, plus the matching actuator for self-assembly (see [Accessories](#), page 8/38).
- Order basic enclosure without actuator, Order No. 3SE2 120-1AV00-0AF1, plus the matching actuator for self-assembly (see [Accessories](#), page 8/38).

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

2 contacts · Moving double-break contacts · Degree of protection IP67 · EN 50041  
Expansion range: with high-grade steel roller · With increased corrosion protection

Actuator	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm		 <p>Ident. No. <b>11</b> according to EN 50013 Order No.</p>				
				Price per PU				kg

Metal enclosures, 40 mm								
	<b>Plungers</b> • With increased corrosion protection	–	40	→ B	<b>3SE2 120-1BV00-0AK0</b>	1	1 unit	102 0.200
	<b>Rounded plungers</b> • With increased corrosion protection	B	40	→ B	<b>3SE2 120-1CV00-0AK0</b>	1	1 unit	102 0.240
	<b>Roller plungers</b> • With high-grade steel roller • With increased corrosion protection	C	40	→ B → B	<b>3SE2 120-1DV00-0AA3</b> <b>3SE2 120-1DV00-0AK0</b>	1 1	1 unit 1 unit	102 0.255 102 0.250
	<b>Roller levers, molded-plastic roller</b> • With high-grade steel roller • With increased corrosion protection	–	40	→ B → B	<b>3SE2 120-1EV00-0AA3</b> <b>3SE2 120-1EV00-0AK0</b>	1 1	1 unit 1 unit	102 0.200 102 0.210
	<b>Angular roller levers</b> • With high-grade steel roller • With increased corrosion protection	–	40	→ B → B	<b>3SE2 120-1FV00-0AA3</b> <b>3SE2 120-1FV00-0AK0</b>	1 1	1 unit 1 unit	102 0.240 102 0.210
	<b>Twist levers</b> • Finely adjustable from 10° to 10° A - With high-grade steel roller - With increased corrosion protection		40	→ B → B	<b>3SE2 120-1GW00-0AA3</b> <b>3SE2 120-1GW00-0AK0</b>	1 1	1 unit 1 unit	102 0.315 102 0.310
	• Adjustable length, finely adjustable from 10° to 10° - With high-grade steel roller - With increased corrosion protection	–	40	B B	<b>3SE2 120-1UW00-0AA3</b> <b>3SE2 120-1UW00-0AK0</b>	1 1	1 unit 1 unit	102 0.315 102 0.315
	<b>Rod actuators</b> Finely adjustable from 10° to 10° • Molded-plastic rod - With increased corrosion protection	D	40	B	<b>3SE2 120-1WW00-0AK0</b>	1	1 unit	102 0.315
	• Aluminium rod - With increased corrosion protection			B	<b>3SE2 120-1VW00-0AK0</b>	1	1 unit	102 0.320
	<b>Spring rods</b> - With high-grade steel plungers - With increased corrosion protection	–	40	B B	<b>3SE2 120-1RV00-0AL0</b> <b>3SE2 120-1RV00-0AK0</b>	1 1	1 unit 1 unit	102 0.200 102 0.200
	<b>Fork levers, latching</b> • With high-grade steel rollers • With increased corrosion protection	–	40	B B	<b>3SE2 120-1TV00-0AA3</b> <b>3SE2 120-1TV00-0AK0</b>	1 1	1 unit 1 unit	102 0.355 102 0.345


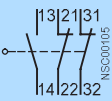







→ Positive opening according to IEC 60947-5-1, Appendix K.

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

3 contacts · Moving double-break contacts · Wide enclosures · Degree of protection IP67

Actuator <sup>1)</sup>	Enclosure width	DT	Position switches with 3 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm		 <p>Ident. No. <b>12</b> according to EN 50013</p> <p>Order No.                      Price per PU</p>				kg
<b>Metal enclosures, 56 mm</b>							
	<b>Plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 303-0B</b>	1	1 unit	102 0.296
	<b>Rounded plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 303-0C</b>	1	1 unit	102 0.332
	<b>Roller plungers</b> Brass roller	56	→ B	<b>3SE2 303-0D</b>	1	1 unit	102 0.350
	<b>Roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 303-0E</b>	1	1 unit	102 0.310
	<b>Angular roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 303-0F</b>	1	1 unit	102 0.315
	<b>Twist levers</b> Molded-plastic roller						
	• Finely adjustable from 10° to 10°	56	→ B	<b>3SE2 303-0GW</b>	1	1 unit	102 0.411
	• Adjustable length, finely adjustable from 10° to 10°	56	B	<b>3SE2 303-0UW</b>	1	1 unit	102 0.414
							
	<b>Rod actuators</b> Finely adjustable from 10° to 10°						
	• Molded-plastic rod	56	B	<b>3SE2 303-0WW</b>	1	1 unit	102 0.310
	• Aluminium rod	56	B	<b>3SE2 303-0VW</b>	1	1 unit	102 0.420

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/38).




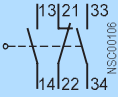







\* You can order this quantity or a multiple thereof.

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

3 contacts · Moving double-break contacts · Wide enclosures · Degree of protection IP67

Actuator <sup>1)</sup>	Enclosure width	DT	Position switches with 3 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm		 <p>Ident. No. <b>21</b> according to EN 50013</p> <p>Order No.                      Price per PU</p>				kg
<b>Metal enclosures, 56 mm</b>							
	<b>Plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 303-1B</b>	1	1 unit	102 0.290
	<b>Rounded plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 303-1C</b>	1	1 unit	102 0.325
	<b>Roller plungers</b> Brass roller	56	→ B	<b>3SE2 303-1D</b>	1	1 unit	102 0.356
	<b>Roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 303-1E</b>	1	1 unit	102 0.314
	<b>Angular roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 303-1F</b>	1	1 unit	102 0.311
	<b>Twist levers</b> Molded-plastic roller						
	• Finely adjustable from 10° to 10°	56	→ B	<b>3SE2 303-1GW</b>	1	1 unit	102 0.411
	• Adjustable length, finely adjustable from 10° to 10°	56	B	<b>3SE2 303-1UW</b>	1	1 unit	102 0.415
	<b>Rod actuators</b> Finely adjustable from 10° to 10°						
	• Molded-plastic rod	56	B	<b>3SE2 303-1WW</b>	1	1 unit	102 0.416
	• Aluminium rod	56	B	<b>3SE2 303-1VW</b>	1	1 unit	102 0.425

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/38).


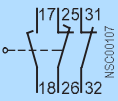









# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

3 contacts · Moving double-break contacts · Wide enclosures · Degree of protection IP67

Actuator <sup>1)</sup>	Enclosure width	DT	Position switches with 3 slow-action make-before-break contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm		 <p>Ident. No. <b>12</b> according to EN 50013</p> <p>Order No. Price per PU</p>				kg
<b>Metal enclosures, 56 mm</b>							
	<b>Plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 303-2B</b>	1	1 unit	102 0.310
	<b>Rounded plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 303-2C</b>	1	1 unit	102 0.330
	<b>Roller plungers</b> Brass roller	56	→ B	<b>3SE2 303-2D</b>	1	1 unit	102 0.352
	<b>Roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 303-2E</b>	1	1 unit	102 0.310
	<b>Angular roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 303-2F</b>	1	1 unit	102 0.316
	<b>Twist levers</b> Molded-plastic roller						
	• Finely adjustable from 10° to 10°	56	→ B	<b>3SE2 303-2GW</b>	1	1 unit	102 0.410
	• Adjustable length, finely adjustable from 10° to 10°	56	B	<b>3SE2 303-2UW</b>	1	1 unit	102 0.310
	<b>Rod actuators</b> Finely adjustable from 10° to 10°						
	• Molded-plastic rod	56	B	<b>3SE2 303-2WW</b>	1	1 unit	102 0.700
	• Aluminium rod	56	B	<b>3SE2 303-2VW</b>	1	1 unit	102 0.422

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/38).


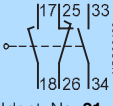







\* You can order this quantity or a multiple thereof.

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

3 contacts · Moving double-break contacts · Wide enclosures · Degree of protection IP67

Actuator <sup>1)</sup>	Enclosure width	DT	Position switches with 3 slow-action make-before-break contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm		 <p>Ident. No. <b>21</b> according to EN 50013</p>				
			Order No.	Price per PU			kg
<b>Metal enclosures, 56 mm</b>							
 NSC00096	<b>Plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 303-3B</b>	1	1 unit	102 0.310
 NSC00097	<b>Rounded plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 303-3C</b>	1	1 unit	102 0.330
 NSC 00098	<b>Roller plungers</b> Brass roller	56	→ B	<b>3SE2 303-3D</b>	1	1 unit	102 0.345
 NSC 00099	<b>Roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 303-3E</b>	1	1 unit	102 0.310
 NSC00093	<b>Angular roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 303-3F</b>	1	1 unit	102 0.330
 NSC 00094	<b>Twist levers</b> Molded-plastic roller						
	• Finely adjustable from 10° to 10°	56	→ B	<b>3SE2 303-3GW</b>	1	1 unit	102 0.410
	• Adjustable length, finely adjustable from 10° to 10°	56	B	<b>3SE2 303-3UW</b>	1	1 unit	102 0.415
 NSC 00095	<b>Rod actuators</b> Finely adjustable from 10° to 10°						
	• Molded-plastic rod	56	B	<b>3SE2 303-3WW</b>	1	1 unit	102 0.310
	• Aluminium rod	56	B	<b>3SE2 303-3VW</b>	1	1 unit	102 0.310

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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


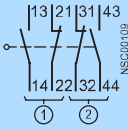







1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/38).

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

4 contacts · Moving double-break contacts · Wide enclosures · Degree of protection IP67

Actuator <sup>1)</sup>	Enclosure width	DT	Position switches with 4 slow-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm		 <p>Ident. No. <b>22</b> according to EN 50013 (1) 3SE3 000-0A switch block (2) 3SE3 010-0A switch block</p>				
<b>Metal enclosures, 56 mm</b>							
	<b>Plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 404-0B</b>	1	1 unit	102 0.355
	<b>Rounded plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 404-0C</b>	1	1 unit	102 0.395
	<b>Roller plungers</b> Brass roller	56	→ B	<b>3SE2 404-0D</b>	1	1 unit	102 0.403
	<b>Roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 404-0E</b>	1	1 unit	102 0.381
	<b>Angular roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 404-0F</b>	1	1 unit	102 0.380
	<b>Twist levers</b> Molded-plastic roller						
	• Finely adjustable from 10° to 10°	56	→ B	<b>3SE2 404-0GW</b>	1	1 unit	102 0.470
	• Adjustable length, finely adjustable from 10° to 10°	56	B	<b>3SE2 404-0UW</b>	1	1 unit	102 0.477
							
	<b>Rod actuators</b> Finely adjustable from 10° to 10°						
	• Molded-plastic rod	56	B	<b>3SE2 404-0WW</b>	1	1 unit	102 0.380
	• Aluminium rod	56	B	<b>3SE2 404-0VW</b>	1	1 unit	102 0.490

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/38).

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

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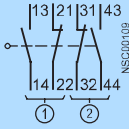










# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

4 contacts · Moving double-break contacts · Wide enclosures · Degree of protection IP67

Actuator <sup>1)</sup>	Enclosure width	DT	Position switches with 4 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm		 <p>Ident. No. <b>22</b> according to EN 50013 (1) 3SE3 000-1A switch block (2) 3SE3 010-1A switch block</p>				
			Order No.	Price per PU			kg

Metal enclosures, 56 mm							
	<b>Plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 404-1B</b>	1	1 unit	102 0.353
	<b>Rounded plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 404-1C</b>	1	1 unit	102 0.385
	<b>Roller plungers</b> Brass roller	56	→ B	<b>3SE2 404-1D</b>	1	1 unit	102 0.420
	<b>Roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 404-1E</b>	1	1 unit	102 0.380
	<b>Angular roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 404-1F</b>	1	1 unit	102 0.383
	<b>Twist levers</b> Molded-plastic roller						
	• Finely adjustable from 10° to 10°	56	→ B	<b>3SE2 404-1GW</b>	1	1 unit	102 0.469
	• Adjustable length, finely adjustable from 10° to 10°	56	B	<b>3SE2 404-1UW</b>	1	1 unit	102 0.479
	<b>Rod actuators</b> Finely adjustable from 10° to 10°						
	• Molded-plastic rod	56	B	<b>3SE2 404-1WW</b>	1	1 unit	102 0.476
	• Aluminium rod	56	B	<b>3SE2 404-1VW</b>	1	1 unit	102 0.488
	<b>Fork levers</b>	56	B	<b>3SE2 404-1T</b>	1	1 unit	102 0.515

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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


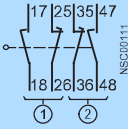







1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/38).

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

4 contacts · Moving double-break contacts · Wide enclosures · Degree of protection IP67

Actuator <sup>1)</sup>	Enclosure width	DT	Position switches with 4 slow-action make-before-break contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm		 <p>Ident. No. <b>22</b> according to EN 50013 (1) 3SE3 000-3A switch block (2) 3SE3 010-3A switch block</p>				
<b>Metal enclosures, 56 mm</b>							
	<b>Plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 404-2B</b>	1	1 unit	102 0.380
	<b>Rounded plungers</b> Molded-plastic head with plunger of high-grade steel	56	→ B	<b>3SE2 404-2C</b>	1	1 unit	102 0.400
	<b>Roller plungers</b> Brass roller	56	→ B	<b>3SE2 404-2D</b>	1	1 unit	102 0.420
	<b>Roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 404-2E</b>	1	1 unit	102 0.380
	<b>Angular roller levers</b> Molded-plastic roller	56	→ B	<b>3SE2 404-2F</b>	1	1 unit	102 0.400
	<b>Twist levers</b> Molded-plastic roller						
	• Finely adjustable from 10° to 10°	56	→ B	<b>3SE2 404-2GW</b>	1	1 unit	102 0.480
	• Adjustable length, finely adjustable from 10° to 10°	56	B	<b>3SE2 404-2UW</b>	1	1 unit	102 0.380
	<b>Rod actuators</b> Finely adjustable from 10° to 10°						
	• Molded-plastic rod	56	B	<b>3SE2 404-2WW</b>	1	1 unit	102 0.490
	• Aluminium rod	56	B	<b>3SE2 404-2VW</b>	1	1 unit	102 0.380

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see Accessories, page 8/38).

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

### Accessories

The actuator heads of the position switches can be subsequently exchanged.




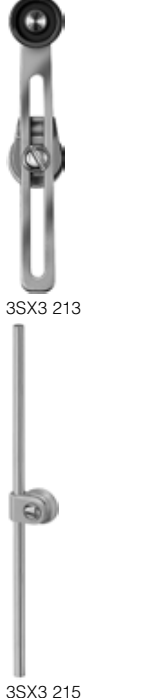
	Actuators with fixing screws	Can be used for position switches	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Complete actuators</b>									
	<b>Plungers</b> With screws and gasket	3SE2 ...- .B	▶	<b>3SX3 100</b>		1	1 unit	102	0.018
3SX3 100									
	<b>Rounded plungers</b> With screws and gasket	3SE2 ...- .C	▶	<b>3SX3 106</b>		1	1 unit	102	0.056
3SX3 106									
	<b>Roller plungers</b> With screws and gasket	3SE2 ...- .D							
3SX3 107									
			▶	<b>3SX3 107</b>		1	1 unit	102	0.082
	• With brass roller (standard)		B	<b>3SX3 263</b>		1	1 unit	102	0.080
	• With high-grade steel roller								
	<b>Roller levers</b> With screws and gasket	3SE2 ...- .E							
3SX3 102									
	• With plastic roller (standard)		▶	<b>3SX3 102</b>		1	1 unit	102	0.034
	• With high-grade steel roller		B	<b>3SX3 275</b>		1	1 unit	102	0.050
	<b>Angular roller levers</b> With screws and gasket	3SE2 ...- .F							
3SX3 104									
	• With plastic roller (standard)		▶	<b>3SX3 104</b>		1	1 unit	102	0.043
	• With high-grade steel roller		B	<b>3SX3 276</b>		1	1 unit	102	0.050
	<b>Spring rod actuators<sup>1)</sup></b> With screws and gasket	3SE2 ...- 1R							
3SX3 126									
	• Standard, spring 50 mm, plastic plunger 50 mm		▶	<b>3SX3 126</b>		1	1 unit	102	0.049
	• Length 73 mm, spring 23.5 mm, plastic plunger 10 mm		B	<b>3SX3 282</b>		1	1 unit	102	0.020
	• Length 113 mm, spring 23.5 mm, plastic plunger 50 mm		B	<b>3SX3 285</b>		1	1 unit	102	0.020
	• Length 139.5 mm, spring 50 mm, plastic plunger 50 mm; with increased corrosion protection		B	<b>3SX3 284</b>		1	1 unit	102	0.050
	• Length 139.5 mm, spring 50 mm, high-grade steel plunger 50 mm		B	<b>3SX3 281</b>		1	1 unit	102	0.060
	• Length 239.5 mm, spring 150 mm, plastic plunger 50 mm		B	<b>3SX3 283</b>		1	1 unit	102	0.070
	• Length 239.5 mm, spring 150 mm, high-grade steel plunger 50 mm		B	<b>3SX3 311</b>		1	1 unit	102	0.080

1) Only for snap-action contacts.

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

Actuators with fixing screws	Can be used for position switches	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
<b>Actuators with separate actuator head</b>									
 3SX3 211	<b>Actuator heads</b> With round spindle, screws and gasket								
	<ul style="list-style-type: none"> <li>Standard</li> <li>Switching right and/or left, adjustable</li> </ul>	3SE2 ...-.GW, 3SE2 ...-.UW, 3SE2 ...-.VW, 3SE2 ...-.WW	▶ B	<b>3SX3 211</b> <b>3SX3 307</b>		1 1	1 unit 1 unit	102 102	0.112 0.085
	<ul style="list-style-type: none"> <li>For fork lever</li> </ul>	3SE2 ...-1T	▶	<b>3SX3 127</b>		1	1 unit	102	0.131
 3SX3 115	<b>Fork levers</b>	3SE2 ...-1T							
	<ul style="list-style-type: none"> <li>Standard, plastic roller, Ø 19 mm</li> <li>With high-grade steel roller, Ø 19 mm</li> </ul>		B B	<b>3SX3 115</b> <b>3SX3 266</b>		1 1	1 unit 1 unit	102 102	0.032 0.050
 3SX3 212	<b>Twist levers, 30 mm</b> For round spindle	3SE2 ...-.GW							
	<ul style="list-style-type: none"> <li>Standard, plastic roller, Ø 19 mm</li> <li>With high-grade steel roller, Ø 19 mm</li> <li>With plastic roller, Ø 30 mm</li> <li>With plastic roller, Ø 50 mm</li> <li>With rubber roller, Ø 50 mm</li> </ul>		▶ B B B B	<b>3SX3 212</b> <b>3SX3 265</b> <b>3SX3 278</b> <b>3SX3 301</b> <b>3SX3 280</b>		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	102 102 102 102 102	0.020 0.025 0.020 0.020 0.020
	<b>Twist levers, adjustable length</b> With clamp	3SE2 ...-.UW							
	<ul style="list-style-type: none"> <li>Standard, plastic roller, Ø 19 mm</li> <li>With high-grade steel roller, Ø 19 mm</li> <li>With plastic roller, Ø 30 mm</li> <li>With rubber roller, Ø 50 mm</li> </ul>		▶ B B B	<b>3SX3 213</b> <b>3SX3 268</b> <b>3SX3 302</b> <b>3SX3 304</b>		1 1 1 1	1 unit 1 unit 1 unit 1 unit	102 102 102 102	0.024 0.030 0.025 0.020
	<b>Roller rods, adjustable length</b> (without clamp)	3SE2 ...-.UW	B	<b>3SY3 024</b>		1	1 unit	102	0.036
 3SX3 215	<b>Rod actuators with support</b>								
	<ul style="list-style-type: none"> <li>Plastic rod</li> <li>Aluminium rod</li> </ul>	3SE2 ...-.WW 3SE2 ...-.VW	▶ ▶	<b>3SX3 215</b> <b>3SX3 214</b>		1 1	1 unit 1 unit	102 102	0.031 0.032
	<b>Rod actuators</b> (without support)								
	<ul style="list-style-type: none"> <li>Plastic rod</li> <li>Aluminium rod</li> </ul>	3SE2 ...-.WW 3SE2 ...-.VW	▶ ▶	<b>3SX3 000</b> <b>3SX3 001</b>		1 1	1 unit 1 unit	102 102	0.008 0.016
<b>Lighting</b>									
	<b>Lampholders, complete</b>								
	<ul style="list-style-type: none"> <li>With glow lamp, 230 V AC</li> <li>With LED (green), 24 V AC/DC</li> <li>With LED (green, yellow), 24 V AC/DC</li> </ul>	3SE2 120-... 3SE2 120-... 3SE2 120-...	▶ B B	<b>3SX3 135</b> <b>3SX3 136</b> <b>3SX3 232</b>		1 1 1	1 unit 1 unit 1 unit	102 102 102	0.003 0.007 0.005
	<b>Covers with lens, clear</b>	3SE2 120-...	B	<b>3SX3 137</b>		1	1 unit	102	0.044

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

**Metal enclosures,  
compact design with molded cable**

### Overview

In harsh industrial environments and in installations with limited space, the small 3SE3 160 and 3SE3 180 compact switches are ideal. The switches are already equipped with a molded cable of 2 m in length and can therefore be installed in the smallest spaces.

Both the enclosure and the actuator head are made of metal and comply with the high degree of protection IP67. The roller plunger, rounded plunger and roller lever are available as actuator heads.





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

The 3SE3 1 position switch with molded cable is available in different sizes:

- The 3SE3 180 series complies with the EU standard and features a 30 mm wide enclosure with drilled holes at a spacing of 20 mm.
- The 3SE3 160 series meets the requirements of the US market and features a 40 mm wide enclosure with drilled holes at a spacing of 25 mm.

### Selection and ordering data

#### 2 contacts · Degree of protection IP67

Actuator	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	mm		 Ident. No. <b>11</b> according to EN 50013 Order No.                      Price per PU				kg	
	<b>Rounded plungers</b>							
	• Standard mounting	30	→ A	<b>3SE3 180-1C</b>	1	1 unit	102	0.316
		40	→ A	<b>3SE3 160-1C</b>	1	1 unit	102	0.332
	• With M 12 connecting thread	30	→ A	<b>3SE3 180-1CJ</b>	1	1 unit	102	0.331
	40	→ A	<b>3SE3 160-1CJ</b>	1	1 unit	102	0.351	
	<b>Roller plungers</b>							
	• Standard mounting	30	→ A	<b>3SE3 180-1D</b>	1	1 unit	102	0.323
		40	→ A	<b>3SE3 160-1D</b>	1	1 unit	102	0.348
	• With M 12 connecting thread	30	→ A	<b>3SE3 180-1DJ</b>	1	1 unit	102	0.334
	40	→ A	<b>3SE3 160-1DJ</b>	1	1 unit	102	0.364	
	<b>Twist levers</b>							
		30	→ A	<b>3SE3 180-1G</b>	1	1 unit	102	0.366
	40	→ A	<b>3SE3 160-1G</b>	1	1 unit	102	0.395	

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















# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

Open-type position switches

### Selection and ordering data

2 or 3 contacts · Moving double-break contacts · Degree of protection: IP20 terminals, IP40 contact chamber

Version	Switch block Terminal designation according to EN 50013	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
<b>2 contacts</b>									
	<b>Rounded plungers</b> 21 mm long 6 mm stroke	slow action contacts 1 NO + 1 NC	→ ▶	<b>3SE3 020-0A</b>		1	1 unit	102	0.036
									
		snap-action contacts 1 NO + 1 NC	→ ▶	<b>3SE3 020-1A</b>		1	1 unit	102	0.036
									
	<b>Adapters</b> For tandem arrangement (2 × 2 contacts)	slow-action contacts 1 NO + 1 NC with make-before-break	→ B	<b>3SE3 020-3A</b>		1	1 unit	102	0.036
									
<b>3 slow-action contacts</b>									
	<b>Rounded plungers</b> 21 mm long, and repeat plunger for tandem arrangement 6 mm stroke	1 NO + 2 NC	B	<b>3SE3 023-0A</b>		1	1 unit	102	0.051
									
		2 NO + 1 NC	B	<b>3SE3 023-1A</b>		1	1 unit	102	0.051
									
		1 NO + 2 NC with make-before-break	B	<b>3SE3 023-2A</b>		1	1 unit	102	0.051
									
		2 NO + 1 NC with make-before-break	B	<b>3SE3 023-3A</b>		1	1 unit	102	0.058
									

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

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

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


# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

### 3SX, 3SY accessories and spare parts

#### Selection and ordering data

The quick-release devices and plug connectors are used for fast installation and replacement of position switches.






Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Quick-release devices for 3SE2 120 and 3SE2 230 position switches</b>							
 <p>3SY3 110      3SY3 027</p>		<b>Adapter plates with screws</b>	B	<b>3SY3 110</b>	1	1 unit	102 0.047
		<b>Base plates with locking lever</b>	B	<b>3SY3 027</b>	1	1 unit	102 0.079
<b>Plug connectors for all 3SE2 position switches</b>							
 <p>3SY3 131      3SY3 123</p>		<b>Connector sockets (6-pole + PE), for M20 x 1.5</b> For max. 250 V, 10 A With 0.75 mm <sup>2</sup> connection cable, molded plastic, degree of protection IP65, ambient temperature -40 to +90 °C	B	<b>3SY3 131</b>	1	1 unit	102 0.030
		<b>Cable boxes<sup>1)</sup></b> With terminal compartment, can be pre-assembled, molded plastic, degree of protection IP65	B	<b>3SY3 123</b>	1	1 unit	102 0.064
 <p>3SY3 128      3RX1 505, 3RX1 584</p>		<b>Connector sockets (4-pole), M12 for M20 x 1.5, fixed</b> For max. 250 V, 4 A With 0.25 mm <sup>2</sup> connection cable, molded plastic, degree of protection IP67, ambient temperature -40 to +85 °C	B	<b>3SY3 127</b>	1	1 unit	102 0.008
		<b>Coupling boxes (4-pole), M12</b> With terminal compartment, can be pre-assembled	A	<b>3RX8 000-0CB45</b>	1	1 unit	574 0.016
 <p>3SY3 128      3RX1 505, 3RX1 584</p>		<b>Connector sockets (5-pole), M12 for M20 x 1.5, fixed</b> For max. 125 V, 4 A With 0.25 mm <sup>2</sup> connection cable, molded plastic, degree of protection IP67, ambient temperature -40 to +85 °C	B	<b>3SY3 128</b>	1	1 unit	102 0.006
		<b>Coupling boxes (5-pole), M12</b> With terminal compartment, can be pre-assembled	A	<b>3RX8 000-0CB55</b>	1	1 unit	574 0.016
<b>Adapters and cable glands for 3SE2 position switches</b>							
 <p>3SX9 917      3SX9 918</p>		<b>Adapters according to  and </b> For cable entry from M 20 x 1.5 to NPT 1/2	D	<b>3SX9 917</b>	1	1 unit	102 0.033
		• Metal	D	<b>3SX9 918</b>	1	1 unit	102 0.012
		• Molded plastic	A	<b>3SX9 926</b>	1	1 unit	102 0.010
<b>Adapters for 3SE3 position switches</b>							
 <p>3SX9 915</p>		<b>Adapters</b> For cable entry from Pg 13.5 to M20 x 1.5	D	<b>3SX9 915</b>	1	1 unit	102 0.022
		• Metal	A	<b>3SX9 916</b>	1	1 unit	102 0.005
		• Molded plastic					

1) For wiring, a crimping tool is necessary, max. conductor size 1 mm<sup>2</sup>.

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches

### 3SX, 3SY accessories and spare parts

Version	Can be used for position switches	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
<b>Spare parts for 3SE2 100, 3SE2 120, 3SE2 230 and 3SE2 404</b>									
<b>Switch blocks with 2 contacts with moving double-break contacts</b> (2nd element for position switch with 4 contacts)									
 3SE3 000-1, -8	• With snap-action contacts								
	- 1 NO + 1 NC	3SE2 100-1., 3SE2 120-1., 3SE2 230-1., 3SE2 404-1.	▶	<b>3SE3 000-1A</b>		1	1 unit	102	0.032
 3SE3 000-0, -3, -6, -7	- 2 NC	3SE2 100-8., 3SE2 120-8., 3SE2 230-8.	B	<b>3SE3 000-8AV00</b>		1	1 unit	102	0.020
	• With slow-action contacts								
	- 1 NO + 1 NC	3SE2 100-0., 3SE2 120-0., 3SE2 230-0., 3SE2 404-0.	▶	<b>3SE3 000-0A</b>		1	1 unit	102	0.031
	- 2 NC	3SE2 100-6., 3SE2 120-6., 3SE2 230-6.	B	<b>3SE3 000-6A</b>		1	1 unit	102	0.029
	- 2 NO	3SE2 100-7., 3SE2 120-7., 3SE2 230-7.	B	<b>3SE3 000-7A</b>		1	1 unit	102	0.029
	• With slow-action make-before-break contacts								
- 1 NO + 1 NC	3SE2 100-3., 3SE2 120-3., 3SE2 230-3., 3SE2 404-2.	B	<b>3SE3 000-3A</b>		1	1 unit	102	0.031	
<b>Switch blocks with repeat plungers with 2 contacts with moving double-break contacts</b> (1st element for position switch with 4 contacts)									
 3SE3 010-1	• With snap-action contacts	3SE2 404-1.	B	<b>3SE3 010-1A</b>		1	1 unit	102	0.033
	1 NO + 1 NC								
 3SE3 010-0, -3	• With slow action contacts	3SE2 404-0.	B	<b>3SE3 010-0A</b>		1	1 unit	102	0.032
	1 NO + 1 NC								
	• With slow-action make-before-break contacts	3SE2 404-2.	B	<b>3SE3 010-3A</b>		1	1 unit	102	0.034
1 NO + 1 NC									
<b>Spare parts for 3SE2 303</b>									
<b>Switch blocks with 3 contacts with moving double-break contacts</b>									
 3SE30 03	• With slow-action contacts								
	- 1 NO +2 NC	3SE2 303-0.	B	<b>3SE3 003-0A</b>		1	1 unit	102	0.047
	- 2 NO + 1 NC	3SE2 303-1.	B	<b>3SE3 003-1A</b>		1	1 unit	102	0.047
	• With slow-action make-before-break contacts								
- 1 NO +2 NC	3SE2 303-2.	B	<b>3SE3 003-2A</b>		1	1 unit	102	0.047	
- 2 NO + 1 NC	3SE2 303-3.	B	<b>3SE3 003-3A</b>		1	1 unit	102	0.063	

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

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches with Separate Actuator

### General data

#### Overview



These compact position switches with separate actuator are available in three versions:

- With molded-plastic enclosure and fixing dimensions according to EN 50047, width 31 mm
- With metal enclosure and fixing dimensions according to EN 50041, width 40 mm
- With molded-plastic enclosure outside of the standards that has arisen in this form in accordance with general market requirements

When used as a safety position switch, mounting at a spacing of 20 mm (molded-plastic enclosure) or 30 mm (metal enclosure) is necessary. Or the switch must be fitted with a pin or with a stop.

The movable contacts of the 3SE2 120 and 3SE2 200 switches are designed as double-break contacts. This ensures an extremely high contact stability, even when the devices are switching low voltages and currents, e.g. 5 V DC/1 mA.

#### Operation

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

The actuators are not included in the scope of supply of the switch and must be ordered separately.

The actuator with lateral actuation can be adjusted through  $4 \times 90^\circ$ . It cannot be replaced with actuators of the standard type.

The actuator heads of the 3SE2 243 and 3SE2 257 switches with special enclosures cannot be changed.

#### Radius actuator

The position switches with radius actuators are particularly suitable for rotatable protection 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.

#### Application

SIRIUS position switches with separate actuator are used where the position of doors, covers or safety screens must be monitored for safety reasons. For example, they are used in safety circuits together with 3TK28 safety combinations as well as with the ASIsafe, SIMATIC or SINUMERIK systems in safety circuits up to category 4.

#### → Positive opening

The switch can be used in safety circuits due to the positive opening of the NC and positive closing of the NO contacts by pulling the actuator.

A position switch must not be used as an end stop.

#### Approvals

The 3SE2 200 molded-plastic enclosed position switches and the 3SE2 120 metal-enclosed position switches have been given an approval test certificate from the BIA (Berufsgenossenschaftliches Institut für Arbeitssicherheit) and the Schweizer Unfallversicherungsanstalt (SUVA).


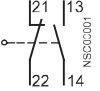
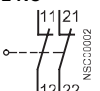
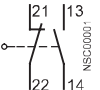
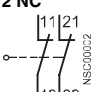


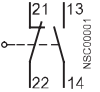
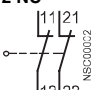
# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches with Separate Actuator

Molded-plastic enclosures, 31 mm

### Selection and ordering data

2 contacts · Moving double-break contacts · Degree of protection IP65

Actuation/ Fixing	Slow-action contacts/ Ident. No. according to EN 50013	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg
<b>Molded-plastic enclosures according to EN 50047, 31 mm</b>								
	<b>Lateral actuation<sup>1)</sup></b> Head 4 × 90° rotatable	6 mm stroke						
	• With M 20 × 1.5 connecting thread	<b>1 NO + 1 NC</b>  Ident. No. <b>11</b>	→ B	<b>3SE2 200-0XX03</b>		1	1 unit	102 0.085
	• With M 20 × 1.5 connecting thread	<b>2 NC</b>  Ident. No. <b>02</b>	→ B	<b>3SE2 200-6XX03</b>		1	1 unit	102 0.085
	<b>Front-end actuation<sup>1)</sup></b>	6 mm stroke						
• With M 20 × 1.5 connecting thread	<b>1 NO + 1 NC</b>  Ident. No. <b>11</b>	→ B	<b>3SE2 200-0XX04</b>		1	1 unit	102 0.100	
• With M 20 × 1.5 connecting thread	<b>2 NC</b>  Ident. No. <b>02</b>	→ B	<b>3SE2 200-6XX04</b>		1	1 unit	102 0.100	
	<b>Actuators</b>							
	• Standard, length 50 mm		A	<b>3SX3 196</b>		1	1 unit	102 0.016
• Standard, length 70 mm			A	<b>3SX3 195</b>		1	1 unit	102 0.018
	<b>5 directions of approach<sup>1)</sup></b> Head 4 × 90° rotatable	6 mm stroke						
	• With Pg 13.5 connecting thread	<b>1 NO + 1 NC</b>  Ident. No. <b>11</b>	→ B	<b>3SE3 200-0XX13</b>		1	1 unit	102 0.108
	• With Pg 13.5 connecting thread	<b>2 NC</b>  Ident. No. <b>02</b>	→ B	<b>3SE3 200-6XX13</b>		1	1 unit	102 0.109
	<b>Actuators</b>							
• Standard, length 44 mm			A	<b>3SX3 220</b>		1	1 unit	102 0.013
• With transverse fixing, angular, length 36 mm			A	<b>3SX3 221</b>		1	1 unit	102 0.013
• Universal radius actuator, adjustable radius, length 44 mm			A	<b>3SX3 254</b>		1	1 unit	102 0.025

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

1) Supplied without actuator.

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches with Separate Actuator


Molded-plastic enclosures, 52 mm

### Selection and ordering data


1 or 3 contacts · Moving double-break contacts · Degree of protection IP67

Operation	Slow-action contacts/ Ident. No. according to EN 50013	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
-----------	---	----	-----------	-----------------	-------------------------	-----	----	-----------------------------------

#### Molded-plastic enclosures in special width of 52 mm

	<b>Lateral and front-end actuation<sup>1)</sup></b> • With M20 × 1.5 connecting thread - Extraction force 5 N - Extraction force 30 N - With automatic ejection	6 mm stroke								
		<b>1 NO + 2 NC</b>	→	<b>3SE2 243-0XX40</b>		1	1 unit	102	0.140	
			→	<b>3SE2 243-0XX</b>		1	1 unit	102	0.140	
			→	<b>3SE2 243-0XX30</b>		1	1 unit	102	0.140	
			→	<b>3SE2 257-6XX40</b>		1	1 unit	102	0.120	
			→	<b>3SE2 257-6XX</b>		1	1 unit	102	0.120	
				A	<b>3SE2 257-6XX30</b>		1	1 unit	102	0.120
	• With M16 × 1.5 connecting thread - Extraction force 5 N - Extraction force 30 N - With automatic ejection	<b>1 NO + 2 NC</b>	→	<b>3SE2 243-0XX48</b>		1	1 unit	102	0.140	
			→	<b>3SE2 243-0XX18</b>		1	1 unit	102	0.145	
			→	<b>3SE2 243-0XX38</b>		1	1 unit	102	0.140	
			→	<b>3SE2 257-6XX48</b>		1	1 unit	102	0.140	
			→	<b>3SE2 257-6XX18</b>		1	1 unit	102	0.140	
		→	<b>3SE2 257-6XX38</b>		1	1 unit	102	0.140		

#### Accessories

	<b>Actuators</b>							
	• Standard actuator ( $r_{min} = 150$ mm), length 28 mm	A	<b>3SX3 218</b>		1	1 unit	102	0.022
	• Universal radius actuator ( $r_{min} = 45$ mm), length 33 mm	A	<b>3SX3 228</b>		1	1 unit	102	0.025
	• Radius actuator, adjustable radius, length 82 mm	D	<b>3SX3 256</b>		1	1 unit	102	0.019
	• Ball locating, force adjustable up to 100 N with 2 screws, length 28 mm	A	<b>3SX3 217</b>		1	1 unit	102	0.037
	• Actuator, length 34 mm, with dust protection and slit cover	D	<b>3SX3 234</b>		1	1 unit	102	0.035
<b>Accessories</b>								
• Slit cover (1 set = 3 units)	D	<b>3SX3 233</b>		1	3 units	102	0.003	

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

1) Supplied without actuator.


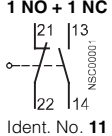
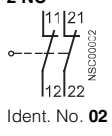
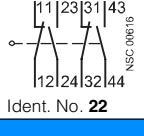

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches with Separate Actuator

Metal enclosures, 40 mm

### Selection and ordering data

2 or 4 contacts · Moving double-break contacts · Degree of protection IP67

Actuation/ Fixing	Slow-action contacts/ Ident. No. according to EN 50013	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Metal enclosures according to EN 50041, 40 mm</b>								
	<b>Lateral actuation<sup>1)</sup></b> <ul style="list-style-type: none"> <li>With M 20 × 1.5 connecting thread</li> <li>With M12 plug, 4-pole</li> </ul>	6 mm stroke <b>1 NO + 1 NC</b>  Ident. No. <b>11</b>	→ B <b>3SE2 120-0XX</b>		1	1 unit	102	0.350
			→ B <b>3SE2 120-0XX00-0AC4</b>		1	1 unit	102	0.360
	<ul style="list-style-type: none"> <li>With M 20 × 1.5 connecting thread</li> <li>With M12 plug, 4-pole</li> </ul>	<b>2 NC</b>  Ident. No. <b>02</b>	→ B <b>3SE2 120-6XX</b>		1	1 unit	102	0.350
			→ B <b>3SE2 120-6XX00-0AC4</b>		1	1 unit	102	0.360
	<ul style="list-style-type: none"> <li>With M 20 × 1.5 connecting thread</li> </ul>	<b>2 NO + 2 NC</b>  Ident. No. <b>22</b>	→ B <b>3SE2 120-4XX</b>		1	1 unit	102	0.355
<b>Accessories</b>								
	<b>Actuators</b> <ul style="list-style-type: none"> <li>Standard, length 79 mm</li> <li>Standard actuator for operation from the left, length 132 mm</li> <li>With transverse fixing, length 50 mm</li> <li>With vertical fixing, length 50 mm</li> <li>Universal radius actuator, length 80 mm</li> </ul>	▶ <b>3SX3 197</b>		1	1 unit	102	0.027	
		B <b>3SX3 207</b>		1	1 unit	102	0.045	
		▶ <b>3SX3 206</b>		1	1 unit	102	0.025	
		C <b>3SX3 306</b>		1	1 unit	102	0.025	
		A <b>3SX3 203</b>		1	1 unit	102	0.118	

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

1) Supplied without actuator.

2) Radius actuator (universal):  $R_{\min} > 70$  mm.

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches with Tumbler

### General data

#### Overview



The position switches with tumbler are offered in molded-plastic or metal enclosures.

#### Operation

The actuators are not included in the scope of supply of the switch and must be ordered separately.

The actuator with lateral actuation can be adjusted through  $4 \times 90^\circ$ . The 3SE3 .5. and 3SE3 .6. switches can also be approached from above.

A radius actuator is available for small actuating radii.

#### 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 protection system and helps to monitor its position.

There are two types of locking:

- **Spring-actuated locks:** In the standard version, the position switch locks by means of spring force and releases by means of electromagnetic force (closed-circuit principle). In the case of voltage failure, it reliably prevents the protective device from opening when machine parts are still moving. For emergency situations or in setup mode, the switch is equipped with an auxiliary release which is secured against unauthorized use either with a seal or lock. This means that release is still possible for authorized personnel when a power failure has occurred.
- **Magnetic-field locks:** The second version offers locking by means of electromagnetic force and release by means of spring force (open-circuit principle). 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 after-running times.

#### Optical signaling device

The 3SE2 83 and 3SE2 84 position switches are also available with an optical signaling device.

The signaling device indicates the switching position of the lock and the protective device optically by means of 2 LEDs on the enclosure surface (only possible with contact arrangement of 1 NO + 1 NC/1 NO + 1 NC) On the version with optical signaling device the contacts are not electrically isolated.

Protective device	Tumbler	Display	Meaning
Closed	Open	Yellow and green	Actuator free to be pulled
Closed	Closed	Green	Actuator locked
Open	Open	Yellow	Actuator pulled

#### Application

The SIRIUS position switches with tumbler are exceptional, technically safe devices which restrict and prevent an unforeseen or intentional opening of protective doors, protective grilles or other covers as long as a dangerous situation is present (i.e. follow-on motion of the shutdown machine).

#### Approvals

3SE2 8 metal-enclosed position switches with tumbler have been awarded a test certificate from the BIA (Berufsgenossenschaftliches Institut für Arbeitssicherheit).

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

The mechanical design of the switch corresponds to the requirements of the failsafe principle according to EN 1088.



















# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches with Tumbler

Molded-plastic enclosures, 1200 N locking force

### Selection and ordering data

4 contacts · Moving double-break contacts · 5 directions of approach · Locking force 1200 N · Degree of protection IP66

Tumbler	Magnet, rated operational voltage	Slow-action contacts/ Ident. No. according to EN 50013	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	V	Position monitoring of magnet actuator							kg	
<b>Molded-plastic enclosures in special width of 56 mm</b>										
	<b>Spring-actuated locks<sup>1)2)</sup></b>		6 mm stroke							
	• Auxiliary release, sealable	24 DC	<b>1 NO +2 NC</b>	<b>1 NC</b>	→ B	<b>3SE3 760-3XX00</b>	1	1 unit	102	0.358
		110 AC			X	<b>3SE3 762-3XX00</b>	1	1 unit	102	0.353
		230			→ B	<b>3SE3 761-3XX00</b>	1	1 unit	102	0.348
			Ident. No. <b>12</b>	Ident. No. <b>01</b>						
		24 DC	<b>2 NC</b>	<b>2 NC</b>	→ B	<b>3SE3 760-6XX00</b>	1	1 unit	102	0.357
	110 AC			→ B	<b>3SE3 762-6XX00</b>	1	1 unit	102	0.350	
	230 AC			→ B	<b>3SE3 761-6XX00</b>	1	1 unit	102	0.350	
		Ident. No. <b>02</b>	Ident. No. <b>02</b>							
	• Auxiliary release with lock	24 DC	<b>1 NO +2 NC</b>	<b>1 NC</b>	→ B	<b>3SE3 760-3XX01</b>	1	1 unit	102	0.391
		110 AC			→ B	<b>3SE3 762-3XX01</b>	1	1 unit	102	0.390
		230 AC			→ B	<b>3SE3 761-3XX01</b>	1	1 unit	102	0.382
			Ident. No. <b>12</b>	Ident. No. <b>01</b>						
		24 DC	<b>2 NC</b>	<b>2 NC</b>	→ B	<b>3SE3 760-6XX01</b>	1	1 unit	102	0.390
										
		Ident. No. <b>02</b>	Ident. No. <b>02</b>							
	<b>Magnetic field locks<sup>1)2)</sup></b>		6 mm stroke							
		24 DC	<b>1 NO +2 NC</b>	<b>1 NC</b>	→ B	<b>3SE3 750-3XX00</b>	1	1 unit	102	0.361
		110 AC			→ B	<b>3SE3 752-3XX00</b>	1	1 unit	102	0.354
		230 AC			→ B	<b>3SE3 751-3XX00</b>	1	1 unit	102	0.350
			Ident. No. <b>12</b>	Ident. No. <b>01</b>						
		24 DC	<b>2 NC</b>	<b>2 NC</b>	→ B	<b>3SE3 750-6XX00</b>	1	1 unit	102	0.362
	110 AC			→ B	<b>3SE3 752-6XX00</b>	1	1 unit	102	0.354	
	230 AC			→ B	<b>3SE3 751-6XX00</b>	1	1 unit	102	0.349	
		Ident. No. <b>02</b>	Ident. No. <b>02</b>							
	<b>Actuators</b>									
	• Standard actuator, length 44 mm			A	<b>3SX3 252</b>	1	1 unit	102	0.035	
	• With transverse fixing, length 36 mm			A	<b>3SX3 253</b>	1	1 unit	102	0.030	
	• Radius actuator, length 44 mm			A	<b>3SX3 254</b>	1	1 unit	102	0.025	

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

1) Supplied without actuator.

2) For metric connection, the Pg 13.5 to M 20 × 1.5 adapter must be ordered separately (see page 8/42).

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




# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches with Tumbler

Metal enclosures, 1200 N locking force

### Selection and ordering data

4 contacts · Moving double-break contacts · 5 directions of approach · Locking force 1200 N · Degree of protection IP66

Tumbler	Magnet, rated operational voltage	Slow-action contacts/ Ident. No. according to EN 50013	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.			
	V	Position monitoring of magnet actuator							kg			
<b>Metal enclosures in special width of 56 mm</b>												
	<b>Spring-actuated locks<sup>1)2)</sup></b>		6 mm stroke									
	• Auxiliary release, sealable	24 DC	<b>1 NO +2 NC</b>	<b>1 NC</b>	→ B	<b>3SE3 860-3XX00</b>	1	1 unit	102	0.727		
		110 AC			→ B	<b>3SE3 862-3XX00</b>	1	1 unit	102	0.722		
		230 AC			→ B	<b>3SE3 861-3XX00</b>	1	1 unit	102	0.717		
				Ident. No. <b>12</b>	Ident. No. <b>01</b>							
				24 DC	<b>2 NC</b>	<b>2 NC</b>	→ B	<b>3SE3 860-6XX00</b>	1	1 unit	102	0.725
			110 AC			→ B	<b>3SE3 862-6XX00</b>	1	1 unit	102	0.715	
			230 AC			→ B	<b>3SE3 861-6XX00</b>	1	1 unit	102	0.712	
				Ident. No. <b>02</b>	Ident. No. <b>02</b>							
	• Auxiliary release with lock	24 DC	<b>1 NO +2 NC</b>	<b>1 NC</b>	→ B	<b>3SE3 860-3XX01</b>	1	1 unit	102	0.756		
		110 AC			→ X	<b>3SE3 862-3XX01</b>	1	1 unit	102	0.755		
		230 AC			→ B	<b>3SE3 861-3XX01</b>	1	1 unit	102	0.750		
				Ident. No. <b>12</b>	Ident. No. <b>01</b>							
				24 DC	<b>2 NC</b>	<b>2 NC</b>	→ B	<b>3SE3 860-6XX01</b>	1	1 unit	102	0.757
				110 AC			→ B	<b>3SE3 862-6XX01</b>	1	1 unit	102	0.766
			230 AC			→ B	<b>3SE3 861-6XX01</b>	1	1 unit	102	0.747	
				Ident. No. <b>02</b>	Ident. No. <b>02</b>							
	<b>Magnetic field locks<sup>1)2)</sup></b>		6 mm stroke									
		24 DC	<b>1 NO +2 NC</b>	<b>1 NC</b>	→ B	<b>3SE3 850-3XX00</b>	1	1 unit	102	0.727		
		110 AC			→ B	<b>3SE3 852-3XX00</b>	1	1 unit	102	0.726		
		230 AC			→ B	<b>3SE3 851-3XX00</b>	1	1 unit	102	0.720		
				Ident. No. <b>12</b>	Ident. No. <b>01</b>							
				24 DC	<b>2 NC</b>	<b>2 NC</b>	→ B	<b>3SE3 850-6XX00</b>	1	1 unit	102	0.728
			110 AC			→ B	<b>3SE3 852-6XX00</b>	1	1 unit	102	0.721	
			230 AC			→ B	<b>3SE3 851-6XX00</b>	1	1 unit	102	0.720	
				Ident. No. <b>02</b>	Ident. No. <b>02</b>							
	<b>Actuators</b>											
	• Standard actuator, length 44 mm			A	<b>3SX3 252</b>	1	1 unit	102	0.035			
	• With transverse fixing, length 36 mm			A	<b>3SX3 253</b>	1	1 unit	102	0.030			
• Radius actuator, length 44 mm			A	<b>3SX3 254</b>	1	1 unit	102	0.025				

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

1) Supplied without actuator.

2) For metric connection, the Pg 13.5 to M 20 × 1.5 adapter must be ordered separately (see page 8/42).


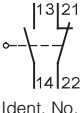

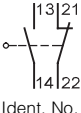


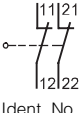
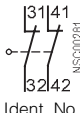
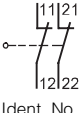
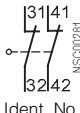

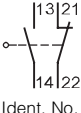
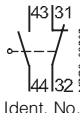
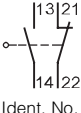
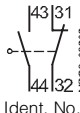
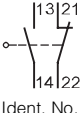
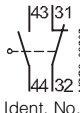

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2, 3SE3 Position Switches with Tumbler

Metal enclosures, 2000 N locking force

### Selection and ordering data

4 contacts · Moving double-break contacts · 4 directions of approach · Locking force 2000 N · Degree of protection IP67

Tumbler/ Signaling equipment	Magnet, rated operational voltage	Slow-action contacts/ Ident. No. according to EN 50013 Position monitoring of magnet actuator	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg			
	<b>Spring-actuated locks<sup>1)</sup></b>		6 mm stroke									
	• Auxiliary release, sealable	24 DC	 1 NO + 1 NC Ident. No. 11	2 NC	 2 NC Ident. No. 02	→ A	3SE2 840-0XX00	1	1 unit	102	0.885	
		110 AC				→ A	3SE2 842-0XX00	1	1 unit	102	0.887	
		230 AC				→ A	3SE2 841-0XX00	1	1 unit	102	0.875	
	• Auxiliary release with lock	24 DC	 1 NO + 1 NC Ident. No. 11	2 NC	 2 NC Ident. No. 02	→ A	3SE2 840-0XX01	1	1 unit	102	0.935	
		110 AC				→ A	3SE2 842-0XX01	1	1 unit	102	0.923	
		230 AC				→ A	3SE2 841-0XX01	1	1 unit	102	0.917	
	<b>Magnetic field locks<sup>1)</sup></b>											
	• Standard	24 DC				→ A	3SE2 830-0XX00	1	1 unit	102	0.887	
		110 AC				→ A	3SE2 832-0XX00	1	1 unit	102	0.855	
		230 AC				→ A	3SE2 831-0XX00	1	1 unit	102	0.855	
		<b>Spring-actuated locks<sup>1)</sup></b>		6 mm stroke								
• Auxiliary release, sealable		24 DC	 2 NC Ident. No. 02	2 NC	 2 NC Ident. No. 02	→ A	3SE2 840-6XX00	1	1 unit	102	0.885	
		110 AC				→ A	3SE2 842-6XX00	1	1 unit	102	0.880	
		230 AC				→ A	3SE2 841-6XX00	1	1 unit	102	0.877	
• Auxiliary release with lock		24 DC	 2 NC Ident. No. 02	2 NC	 2 NC Ident. No. 02	→ A	3SE2 840-6XX01	1	1 unit	102	0.963	
		110 AC				→ A	3SE2 842-6XX01	1	1 unit	102	0.960	
		230 AC				→ A	3SE2 841-6XX01	1	1 unit	102	0.925	
<b>Magnetic field locks<sup>1)</sup></b>												
• Standard		24 DC				→ A	3SE2 830-6XX00	1	1 unit	102	0.885	
		110 AC				→ A	3SE2 832-6XX00	1	1 unit	102	0.854	
		230 AC				→ A	3SE2 831-6XX00	1	1 unit	102	0.849	
		<b>Spring-actuated locks<sup>1)</sup></b>		6 mm stroke								
	• Auxiliary release, sealable	24 DC	 1 NO + 1 NC Ident. No. 11	1 NO + 1 NC	 1 NO + 1 NC Ident. No. 11	→ A	3SE2 840-1XX00	1	1 unit	102	0.874	
		110 AC				→ A	3SE2 842-1XX00	1	1 unit	102	0.890	
		230 AC				→ A	3SE2 841-1XX00	1	1 unit	102	0.870	
	• Auxiliary release, sealable, and with optical signaling equipment <sup>2)</sup>	24 DC	 1 NO + 1 NC Ident. No. 11	1 NO + 1 NC	 1 NO + 1 NC Ident. No. 11	→ A	3SE2 840-1XX20	1	1 unit	102	0.905	
		110 AC				→ A	3SE2 842-1XX20	1	1 unit	102	0.885	
		230 AC				→ A	3SE2 841-1XX20	1	1 unit	102	0.880	
	• Auxiliary release with lock and with optical signaling equipment <sup>2)</sup>	24 DC	 1 NO + 1 NC Ident. No. 11	1 NO + 1 NC	 1 NO + 1 NC Ident. No. 11	→ A	3SE2 840-1XX32	1	1 unit	102	0.945	
		110 AC				→ A	3SE2 842-1XX32	1	1 unit	102	0.935	
		230 AC				→ A	3SE2 841-1XX32	1	1 unit	102	0.930	
	<b>Magnetic field locks<sup>1)</sup></b>											
	• Standard	24 DC				→ A	3SE2 830-1XX00	1	1 unit	102	0.868	
110 AC					→ A	3SE2 832-1XX00	1	1 unit	102	0.854		
230 AC					→ A	3SE2 831-1XX00	1	1 unit	102	0.876		
• With optical signaling equipment <sup>2)</sup>	24 DC				→ A	3SE2 830-1XX20	1	1 unit	102	0.881		
	110 AC				→ A	3SE2 832-1XX20	1	1 unit	102	0.865		
	230 AC				→ A	3SE2 831-1XX20	1	1 unit	102	0.875		
<b>Actuators</b>												
	• Standard actuator, length 79 mm				▶	3SX3 197	1	1 unit	102	0.027		
	- For approach from the left, length 132 mm					B	3SX3 207	1	1 unit	102	0.045	
	- With transverse fixing, length 50 mm					▶	3SX3 206	1	1 unit	102	0.025	
	- With vertical fixing, length 50 mm						C	3SX3 306	1	1 unit	102	0.025
	• Universal radius actuator, length 80 mm						A	3SX3 203	1	1 unit	102	0.118

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

1) Supplied without actuator.

2) On the version with optical signaling equipment the contacts are not electrically isolated.

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

Siemens LV 1 · 2006

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SE2 Explosion-Proof Position Switches

Metal enclosures, 40 mm and 56 mm

### Overview




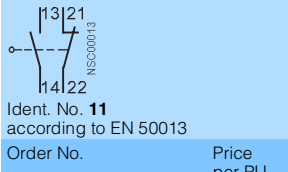









### Characteristics

- Enclosures and actuators according to EN 50041, width 40 mm, with one M20 × 1.5 connecting thread
- Enclosures in special width of 56 mm, with three M20 × 1.5 connecting threads
- 2 snap-action contacts 1 NO + 1 NC with moving double-break contacts
- Enclosures with external grounding screw
- Explosion protection according to Explosion Protection Directive 94/9/EG (ATEX 95), approved for Zone 22

### Actuators

The actuator heads of the position switches can be subsequently exchanged.

### Selection and ordering data

Actuator <sup>1)</sup>	Actuator design acc. to EN 50041	Enclosure width	DT	Position switches with 2 snap-action contacts	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm						kg
<b>Metal enclosures, 40 mm and 56 mm</b>								
	<b>Plungers</b>	–	40	→ B	<b>3SE2 120-1BV00-0AE0</b>	1	1 unit	102 0.195
		–	56	→ B	<b>3SE2 100-1BV00-0AE0</b>	1	1 unit	102 0.220
	<b>Rounded plungers</b>	B	40	→ B	<b>3SE2 120-1CV00-0AE0</b>	1	1 unit	102 0.230
		–	56	→ B	<b>3SE2 100-1CV00-0AE0</b>	1	1 unit	102 0.260
	<b>Roller plungers</b>	C	40	→ B	<b>3SE2 120-1DV00-0AE0</b>	1	1 unit	102 0.250
		–	56	→ B	<b>3SE2 100-1DV00-0AE0</b>	1	1 unit	102 0.280
	<b>Roller levers</b>	–	40	→ B	<b>3SE2 120-1EV00-0AE0</b>	1	1 unit	102 0.210
	Molded-plastic roller	–	56	→ B	<b>3SE2 100-1EV00-0AE0</b>	1	1 unit	102 0.240
	<b>Angular roller levers</b>	–	40	→ B	<b>3SE2 120-1FV00-0AE0</b>	1	1 unit	102 0.225
	Molded-plastic roller	–	56	→ B	<b>3SE2 100-1FV00-0AE0</b>	1	1 unit	102 0.255
	<b>Twist levers</b>							
	• Finely adjustable from 10° to 10°	A	40	→ B	<b>3SE2 120-1GW00-0AE0</b>	1	1 unit	102 0.305
		–	56	→ B	<b>3SE2 100-1GW00-0AE0</b>	1	1 unit	102 0.335
	<b>Rod actuators</b>	D						
	Finely adjustable from 10° to 10°							
	• Molded-plastic rod		40	B	<b>3SE2 120-1WW00-0AE0</b>	1	1 unit	102 0.320
	<b>Spring rods</b>	–	40	B	<b>3SE2 120-1RV00-0AE0</b>	1	1 unit	102 0.230
	<b>Fork levers</b>	–	40	B	<b>3SE2 120-1TV00-0AE0</b>	1	1 unit	102 0.345

For dimensional drawings, operation, operating speed and travel, see Technical Information LV 1 T.

For spare switch blocks, see page 8/43.

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

1) The actuator heads can be subsequently replaced with other versions (see page 8/38).

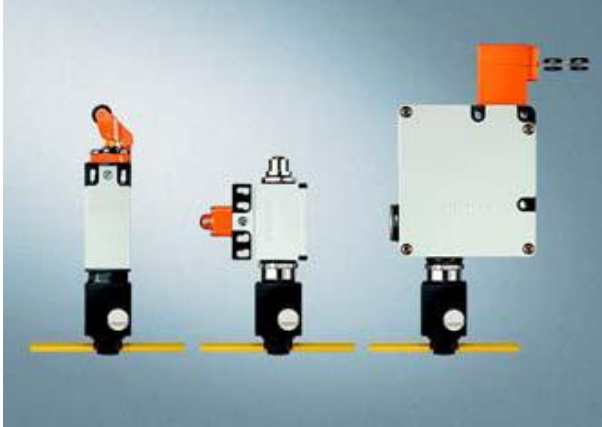
\* You can order this quantity or a multiple thereof.

# 3SE2, 3SE3, 3SF3 Position Switches

## 3SF3 AS-Interface Position Switches

General data

### Overview



Position switches from left to right:  
Standard / Standard with M12 plug / With tumbler

The position switches can now be directly connected through the standard AS-Interface with safety-oriented communication. The safety functions no longer have to be conventionally wired up.

The function of the position switches is to produce electrical signals corresponding to the positions of the moving machinery.

### Application

#### *Position switches with AS-Interface F-adapter*

The F-adapter is used for connection to the AS-Interface bus cable. Individual enclosure variants are available with an additional M12 connector socket. They are suitable for use up to category 4 according to EN 954-1.

#### *Position switches with separate actuator*

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

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

#### *Position switches with tumbler*

The position 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 i.e. follow-on motion of the switched off machine.

The safety switch with tumbler basically has two main functions:

- Enabling the machine with closed and locked protective system
- Locking the machine with opened protective system

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





# 3SE2, 3SE3, 3SF3 Position Switches

## 3SF3 AS-Interface Position Switches

Molded-plastic enclosures, 31 mm and 50 mm

### Selection and ordering data

Moving double-break contacts · Degree of protection IP65 · EN 50047 · Special width 50 mm

Actuator <sup>1)</sup>	Actuator design acc. to EN 50047	Enclosure width mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
<b>With AS-Interface F-adapters</b>										
<i>Slow-action contacts, 2 NC</i>										
	Rounded plunger	B	31	→ C	<b>3SF3 200-6CV00-0BA1</b>		1	1 unit	121	0.150
	Roller plunger	C	31	→ C	<b>3SF3 200-6DV00-0BA1</b>		1	1 unit	121	0.160
	Roller lever	E	31	→ C	<b>3SF3 200-6EV00-0BA1</b>		1	1 unit	121	0.160
	Angular roller lever	–	31	→ C	<b>3SF3 200-6FV00-0BA1</b>		1	1 unit	121	0.165
	Twist lever, finely adjustable from 10° to 10°	A	31	→ C	<b>3SF3 200-6GV00-0BA1</b>		1	1 unit	121	0.175
<i>Snap-action contact, 1 NC</i>										
	Rounded plunger	B	31	→ C	<b>3SF3 200-1CV00-0BA1</b>		1	1 unit	121	0.170
	Roller plunger	C	31	→ C	<b>3SF3 200-1DV00-0BA1</b>		1	1 unit	121	0.160
	Roller lever	E	31	→ C	<b>3SF3 200-1EV00-0BA1</b>		1	1 unit	121	0.180
	Angular roller lever	–	31	→ C	<b>3SF3 200-1FV00-0BA1</b>		1	1 unit	121	0.175
	Twist lever, finely adjustable from 10° to 10°	A	31	→ C	<b>3SF3 200-1GV00-0BA1</b>		1	1 unit	121	0.175
<b>With AS-Interface F-adapters and additional M12 plug<sup>2)</sup></b>										
<i>Slow-action contact, 1 NC</i>										
	Rounded plunger	B	50	→ C	<b>3SF3 210-0CV00-0BA2</b>		1	1 unit	121	0.220
	Roller plunger	C	50	→ C	<b>3SF3 210-0DV00-0BA2</b>		1	1 unit	121	0.205
	Roller lever	E	50	→ C	<b>3SF3 210-0EV00-0BA2</b>		1	1 unit	121	0.120
	Angular roller lever	–	50	→ C	<b>3SF3 210-0FV00-0BA2</b>		1	1 unit	121	0.120
	Twist lever, finely adjustable from 10° to 10°	A	50	→ C	<b>3SF3 210-0GV00-0BA2</b>		1	1 unit	121	0.240
<i>Snap-action contact, 1 NC</i>										
	Rounded plunger	B	50	→ C	<b>3SF3 210-1CV00-0BA2</b>		1	1 unit	121	0.220
	Roller plunger	C	50	→ C	<b>3SF3 210-1DV00-0BA2</b>		1	1 unit	121	0.120
	Roller lever	E	50	→ C	<b>3SF3 210-1EV00-0BA2</b>		1	1 unit	121	0.225
	Angular roller lever	–	50	→ C	<b>3SF3 210-1FV00-0BA2</b>		1	1 unit	121	0.220
	Twist lever, finely adjustable from 10° to 10°	A	50	→ C	<b>3SF3 210-1GV00-0BA2</b>		1	1 unit	121	0.240

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

- The actuator heads can be subsequently replaced with other versions (see [Accessories](#), page 8/12).
- M12 plug for connection of another position switch, usable up to category 4 according to EN 954-1. For matching cable boxes, see [Accessories](#), page 8/42.



# 3SE2, 3SE3, 3SF3 Position Switches

## 3SF3 AS-Interface Position Switches

Metal enclosures, 40 mm and 56 mm

### Selection and ordering data

Moving double-break contacts · Degree of protection IP65 · EN 50041 · Special width 56 mm

Actuator <sup>1)</sup>	Actuator design according to EN 50041	Enclosure width mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>With AS-Interface F-adapters</b>									
	<b>Slow-action contacts, 2 NC</b>								
	Rounded plunger	B	40	→ C	<b>3SF3 120-6CV00-0BA1</b>	1	1 unit	121	0.315
	Roller plunger	C	40	→ C	<b>3SF3 120-6DV00-0BA1</b>	1	1 unit	121	0.330
	Roller lever	–	40	→ C	<b>3SF3 120-6EV00-0BA1</b>	1	1 unit	121	0.300
	Angular roller lever	–	40	→ C	<b>3SF3 120-6FV00-0BA1</b>	1	1 unit	121	0.285
	Twist lever, finely adjustable from 10° to 10°	A	40	→ C	<b>3SF3 120-6GW00-0BA1</b>	1	1 unit	121	0.390
	<b>Snap-action contact, 1 NC</b>								
	Rounded plunger	B	40	→ C	<b>3SF3 120-1CV00-0BA1</b>	1	1 unit	121	0.335
	Roller plunger	C	40	→ C	<b>3SF3 120-1DV00-0BA1</b>	1	1 unit	121	0.355
	Roller lever	–	40	→ C	<b>3SF3 120-1EV00-0BA1</b>	1	1 unit	121	0.302
Angular roller lever	–	40	→ C	<b>3SF3 120-1FV00-0BA1</b>	1	1 unit	121	0.295	
Twist lever, finely adjustable from 10° to 10°	A	40	→ C	<b>3SF3 120-1GW00-0BA1</b>	1	1 unit	121	0.390	
<b>With AS-Interface F-adapters and additional M12 plug<sup>2)</sup></b>									
	<b>Slow-action contact, 1 NC</b>								
	Rounded plunger	B	56	→ C	<b>3SF3 100-0CV00-0BA2</b>	1	1 unit	121	0.380
	Roller plunger	C	56	→ C	<b>3SF3 100-0DV00-0BA2</b>	1	1 unit	121	0.400
	Roller lever	–	56	→ C	<b>3SF3 100-0EV00-0BA2</b>	1	1 unit	121	0.180
	Angular roller lever	–	56	→ C	<b>3SF3 100-0FV00-0BA2</b>	1	1 unit	121	0.295
	Twist lever, finely adjustable from 10° to 10°	A	56	→ C	<b>3SF3 100-0GW00-0BA2</b>	1	1 unit	121	0.295
	<b>Snap-action contact, 1 NC</b>								
	Rounded plunger	B	56	→ C	<b>3SF3 100-1CV00-0BA2</b>	1	1 unit	121	0.390
	Roller plunger	C	56	→ C	<b>3SF3 100-1DV00-0BA2</b>	1	1 unit	121	0.295
	Roller lever	–	56	→ C	<b>3SF3 100-1EV00-0BA2</b>	1	1 unit	121	0.365
Angular roller lever	–	56	→ C	<b>3SF3 100-1FV00-0BA2</b>	1	1 unit	121	0.295	
Twist lever, finely adjustable from 10° to 10°	A	56	→ C	<b>3SF3 100-1GW00-0BA2</b>	1	1 unit	121	0.445	

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

- The actuator heads can be subsequently replaced with other versions (see [Accessories](#), page 8/38).
- M12 plug for connection of another position switch, usable up to category 4 according to EN 954-1. For matching cable boxes, see [Accessories](#), page 8/42.

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SF3 AS-Interface Position Switches with Separate Actuator

Molded-plastic enclosures, 31 mm and 52 mm

### Selection and ordering data

Moving double-break contacts · Degree of protection IP65 · EN 50047 · Special width 52 mm

Actuation <sup>1)</sup>	Enclosure width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	mm							
<b>With AS-Interface F-adapters</b>								
<i>Slow-action contacts, 2 NC</i>								
	• Lateral actuation	31	→ C	<b>3SF3 200-6XX03-0BA1</b>	1	1 unit	121	0.180
	• Front-end actuation	31	→ C	<b>3SF3 200-6XX04-0BA1</b>	1	1 unit	121	0.195
	• Lateral and front-end actuation	52	→ D	<b>3SF3 243-0XX40-0BA1</b>	1	1 unit	121	0.220
			→ D	<b>3SF3 243-0XX00-0BA1</b>	1	1 unit	121	0.260
→ D			<b>3SF3 243-0XX30-0BA1</b>	1	1 unit	121	0.225	
<i>Slow-action contact, 1 NC</i>								
	• Lateral and front-end actuation	52	→ C	<b>3SF3 257-6XX40-0BA2</b>	1	1 unit	121	0.255
	- Extraction force 5 N		→ C	<b>3SF3 257-6XX00-0BA2</b>	1	1 unit	132	0.230
	- Extraction force 30 N		→ C	<b>3SF3 257-6XX30-0BA2</b>	1	1 unit	121	0.260
<b>Accessories</b>								
<b>Actuators for 3SF3 200</b>								
	• Standard, length 50 mm		A	<b>3SX3 196</b>	1	1 unit	102	0.016
	• Standard, length 70 mm		A	<b>3SX3 195</b>	1	1 unit	102	0.018
<b>Actuators for 3SF3 243 and 3SF3 257</b>								
	• Standard actuator ( $r_{min} = 150$ mm), length 28 mm		A	<b>3SX3 218</b>	1	1 unit	102	0.022
	• Universal radius actuator ( $r_{min} = 45$ mm), length 33 mm		A	<b>3SX3 228</b>	1	1 unit	102	0.025
	• Radius actuator, length 82 mm		D	<b>3SX3 256</b>	1	1 unit	102	0.019
	• Ball locating (up to max. 100 N), length 28 mm		A	<b>3SX3 217</b>	1	1 unit	102	0.037
	• Actuator, length 34 mm, with dust protection and slit cover		D	<b>3SX3 234</b>	1	1 unit	102	0.035
<b>Accessories for 3SF3 243 and 3SF3 257</b>								
	• Slit cover (1 set = 3 units)		D	<b>3SX3 233</b>	1	3 units	102	0.003

→ Positive opening according to IEC 60947-5-1, Appendix K.  
1) Supplied without actuator.

2) M12 plug for connection of another position switch, usable up to category 4 according to EN 954-1. For matching cable boxes, see [Accessories](#), page 8/42.












# 3SE2, 3SE3, 3SF3 Position Switches


## 3SF3 AS-Interface Position Switches with Separate Actuator

Metal enclosures, 40 mm

### Selection and ordering data

Moving double-break contacts · Degree of protection IP65 · EN 50041

Actuation <sup>1)</sup>	Enclosure width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm							kg
<b>With AS-Interface F-adapters</b>								
<i>Slow-action contacts, 2 NC</i>								
 <ul style="list-style-type: none"> <li>Lateral actuation</li> </ul>	40	 C	<b>3SF3 120-6XX00-0BA1</b>		1	1 unit	121	0.440
<b>Accessories</b>								
<b>Actuators</b>								
 <ul style="list-style-type: none"> <li>Standard, length 79 mm</li> </ul>		 ▶	<b>3SX3 197</b>		1	1 unit	102	0.027
 <ul style="list-style-type: none"> <li>Standard actuator for approach from the left, length 132 mm</li> </ul>		B	<b>3SX3 207</b>		1	1 unit	102	0.045
 <ul style="list-style-type: none"> <li>With transverse fixing, length 50 mm</li> </ul>		 ▶	<b>3SX3 206</b>		1	1 unit	102	0.025
 <ul style="list-style-type: none"> <li>With vertical fixing, length 50 mm</li> </ul>		C	<b>3SX3 306</b>		1	1 unit	102	0.025
 <ul style="list-style-type: none"> <li>Universal radius actuator, length 80 mm</li> </ul>		A	<b>3SX3 203</b>		1	1 unit	102	0.118

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

1) Supplied without actuator.

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

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# 3SE2, 3SE3, 3SF3 Position Switches

## 3SF3 AS-Interface Position Switches with Tumbler

Molded-plastic enclosures,  
1200 N locking force

### Selection and ordering data

Moving double-break contacts · 5 directions of approach · 1200 N locking force · Degree of protection IP65

Actuation <sup>1)</sup>	Enclosure width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm							kg
<b>With AS-Interface F-adapters</b>								
<i>Slow-action contacts, 2 NC</i>								
	• 1200 N locking force, spring-actuated lock	56	→ C	<b>3SF3 760-6XX00-0BA1</b>	1	1 unit	121	0.600
	• 1200 N locking force, magnet field lock	56	→ C	<b>3SF3 750-6XX00-0BA1</b>	1	1 unit	121	0.625
<b>Accessories</b>								
<b>Actuators</b>								
	• Standard actuator, length 44 mm		A	<b>3SX3 252</b>	1	1 unit	102	0.035
	• With transverse fixing, length 36 mm		A	<b>3SX3 253</b>	1	1 unit	102	0.030
	• Radius actuator, length 44 mm		A	<b>3SX3 254</b>	1	1 unit	102	0.025

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











1) Supplied without actuator.

# 3SE2, 3SE3, 3SF3 Position Switches 3SF3 AS-Interface Position Switches with Tumbler

Metal enclosures,  
1200 N or 2000 N locking force

## Selection and ordering data

Moving double-break contacts · 5 or 4 directions of approach · 1200 N or 2000 N locking force · Degree of protection IP65

Actuation <sup>1)</sup>	Enclosure width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	mm							kg	
<b>With AS-Interface F-adapters</b>									
<i>Slow-action contacts, 2 NC</i>									
	• 5 directions of approach								
	- 1200 N locking force, spring-actuated lock	56	→ C	<b>3SF3 860-6XX00-0BA1</b>		1	1 unit	121	0.800
	- 1200 N locking force, magnetic field lock	56	→ C	<b>3SF3 850-6XX00-0BA1</b>		1	1 unit	121	0.970
	• 4 directions of approach								
	- 2000 N locking force, spring-actuated lock	90	→ C	<b>3SF3 840-6XX00-0BA1</b>		1	1 unit	121	1.105
	- 2000 N locking force, magnetic field lock	90	→ C	<b>3SF3 830-6XX00-0BA1</b>		1	1 unit	121	1.075
<b>Accessories</b>									
<b>Actuators for 3SF3 850 and 3SF3 860</b>									
	• Standard actuator, length 44 mm		A	<b>3SX3 252</b>		1	1 unit	102	0.035
	• With transverse fixing, length 36 mm		A	<b>3SX3 253</b>		1	1 unit	102	0.030
	• Radius actuator, length 44 mm		A	<b>3SX3 254</b>		1	1 unit	102	0.025
<b>Actuators for 3SF3 830 and 3SF3 840</b>									
	• Standard actuator, length 79 mm		▶	<b>3SX3 197</b>		1	1 unit	102	0.027
	- For approach from the left, length 132 mm		B	<b>3SX3 207</b>		1	1 unit	102	0.045
	- With transverse fixing, length 50 mm		▶	<b>3SX3 206</b>		1	1 unit	102	0.025
	- With vertical fixing, length 50 mm		C	<b>3SX3 306</b>		1	1 unit	102	0.025
	• Universal radius actuator, length 80 mm		A	<b>3SX3 203</b>		1	1 unit	102	0.118

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

1) Supplied without actuator.

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

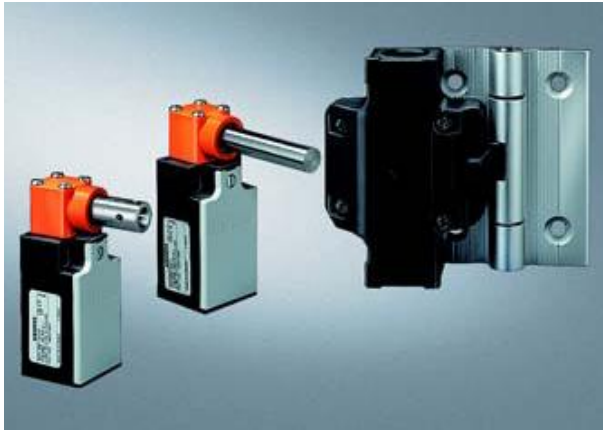
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# 3SE2 Hinge Switches

## Molded-plastic enclosures

### Overview



### Characteristics

- Type 3SE2 200
  - Enclosures according to EN 50047, width 31 mm, with one M20 × 1.5 connecting thread
  - 2 contacts with moving double-break contacts
  - Degree of protection IP66
- Type 3SE2 283
  - Special design, with two M20 × 1.5 connecting threads
  - 3 contacts
  - Degree of protection IP65

### Benefits

- Easy mounting through use of variants with integrated hinge
- Direct actuation by door hinge
- Variants with small actuating angle of 4° or 5°
- Protection against personal injury provided by positively driven NC contacts according to IEC 60947-5-1
- Simultaneous shutdown and signaling by 1 NO +1 NC contacts

### Application



The hinge switches are used for monitoring and protecting hinged protection equipment such as doors and flaps.

The 3SE2 200 hinge switches with snap-action contacts 1 NO + 1 NC with an angle of operation of 5° or 15° make "Switch-off" and "Signaling" possible for the first time without a time delay and with a small opening angle.

The 3SE2 283 hinge switches are particularly suitable for use in doors and flaps of machines that must be closed to ensure the safety of operating personnel. Its thin profile and compact design allow it to be directly mounted on a hinged protective cover and the stable frame.

### Selection and ordering data

2 or 3 contacts · Moving double-break contacts · Degree of protection IP66 (3SE2 283: IP65)

Version	Switch block	DT	Molded-plastic enclosures		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
			Order No.	Price					
	<b>Mounting on hinges</b>	Snap-action contacts							
	• Solid shaft, d = 10 mm, operating angle 15°	1 NO + 1 NC	→ B	<b>3SE2 200-1GA11</b>		1	1 unit	102	0.120
	• Hollow shaft, d <sub>i</sub> = 8 mm, operating angle 15°	1 NO + 1 NC	→ B	<b>3SE2 200-1GA10</b>		1	1 unit	102	0.105
	• Solid shaft, d = 10 mm, operating angle 5°	1 NO + 1 NC	→ B	<b>3SE2 200-1GA31</b>		1	1 unit	102	0.115
	• Hollow shaft, d <sub>i</sub> = 8 mm, operating angle 5°	1 NO + 1 NC	→ B	<b>3SE2 200-1GA30</b>		1	1 unit	102	0.100
	<b>With mounted hinges</b> (delivered with additional hinge and fixing accessories)	Slow-action contacts							
	Operating angle 4°	1 NO + 2 NC	→ A	<b>3SE2 283-0GA43</b>		1	1 unit	102	0.420
	Operating angle 4°	3 NC	→ A	<b>3SE2 283-6GA43</b>		1	1 unit	102	0.420
	Operating angle 8°	1 NO + 2 NC	→ D	<b>3SE2 283-0GA53</b>		1	1 unit	102	0.800
	<b>Additional hinges</b> (delivered with fixing accessories)		D	<b>3SX3 225</b>		1	1 unit	102	0.157

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

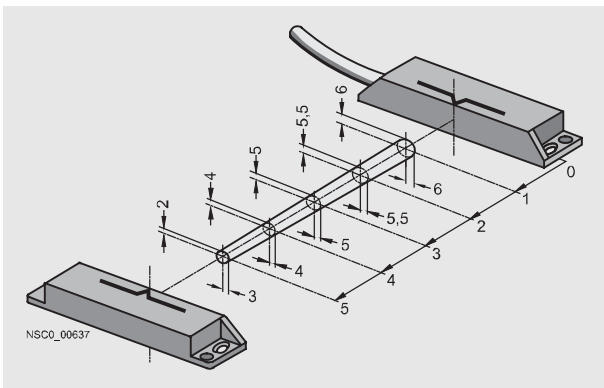
# 3SE6 Magnetically Operated Switches

## Magnetic monitoring systems

### Overview



A magnetically operated switch is comprised of a coded switching magnet and a switch block (sensor unit). Evaluation requires a safety controlgear or connection to a bus system.



Enabling range (example)

### 3SE6 806 safety relay

The 3SE6 806 safety relay has two floating enabling circuits (safe circuits) as NO contact circuits and one floating signaling circuit as a NC circuit. The number of enabling circuits can be increased by adding one or more 3TK28 30 expansion modules.

Up to six protective devices (sensors) can be connected to the safety relay. The device has six current-sourcing semiconductor outputs (Y1 ... Y6), which report the state of the connected protective devices.

### Application

SIRIUS 3SE6 magnetically operated switches are designed for mounting on movable protective guards (covers, flaps, doors, etc.). Evaluation can be performed by means of a safety relay or through connection to a bus system.

The 3SE6 6 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 switch blocks 1 NO + 1 NC are used the 3SE6 806 safety relay provides a high degree of protection against manipulation and can be installed in safety circuits up to category 3 according to EN 954-1.

### Combination of monitoring unit and magnetically operated switch

Monitoring units	Magnetically operated switch (switch block)			
	1 NC +1 NO		2 NC	
	3SE6 605 -1BA	3SE6 605 -2BA	3SE6 605 -3BA	3SE6 604 -1BA

Relay outputs <sup>1)</sup>	3SE6 605 -1BA	3SE6 605 -2BA	3SE6 605 -3BA	3SE6 604 -1BA
SIRIUS 3SE6 806 safety relay	✓	✓	✓	-
<b>Solid-state outputs<sup>2)</sup></b>				
3TK28 4. SIRIUS safety relay	-	-	-	✓
3TK28 5. SIRIUS safety relay with contactor relay	-	-	-	✓
3RA7 SIRIUS safe load feeder	-	-	-	✓
ASIsafe 3RK1	-	-	-	✓
SIMATIC ET200 S, PROFIsafe 4/8 F-DI 24 V DC	✓	✓	✓	✓
SIMATIC ET 200M: SM 326, 24 DI, 24 V DC, SM 326, 8 DI, NAMUR; SIMATIC S7-31xF-2 DP: SM 326, 24 DI, 24 V DC	✓	✓	✓	✓




1) Up to category 3 according to EN 954-1.

2) Up to category 4 according to EN 954-1.

# 3SE6 Magnetically Operated Switches

## Magnetic monitoring systems

### Selection and ordering data

Version	Size	Contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
<b>Round sensor units</b>										
	<b>Switching magnets (coded)</b>	M30		A	<b>3SE6 704-1BA</b>		1	1 unit	102	0.035
	<b>Switch blocks</b>									
	• With 3 m cable	M30	1 NO + 1 NC	A	<b>3SE6 605-1BA</b>		1	1 unit	102	0.166
• With M12 plug, 4-pole	M30	1 NO + 1 NC	C	<b>3SE6 605-1BA02</b>		1	1 unit	102	0.130	
<b>Rectangular sensor units</b>										
	<b>Switching magnets (coded)</b>	25 × 88		A	<b>3SE6 704-2BA</b>		1	1 unit	102	0.027
	<b>Switch blocks</b>									
	• With 1 m cable	25 × 88	1 NO + 1 NC	A	<b>3SE6 605-2BA</b>		1	1 unit	102	0.163
			2 NC	A	<b>3SE6 604-2BA</b>		1	1 unit	102	0.164
	• With M8 plug, 4-pole	25 × 88	1 NO + 1 NC	C	<b>3SE6 605-2BA01</b>		1	1 unit	102	0.130
			2 NC	C	<b>3SE6 604-2BA01</b>		1	1 unit	102	0.130
	<b>Switching magnets (coded)</b>	25 × 33		A	<b>3SE6 704-3BA</b>		1	1 unit	102	0.014
	<b>Switch blocks</b>	25 × 33	1 NO + 1 NC	A	<b>3SE6 605-3BA</b>		1	1 unit	102	0.151
	with 3 m cable									
<b>Accessories</b>										
	<b>Spacers</b>	25 × 88		D	<b>3SX3 260</b>		1	1 unit	102	0.015
	<b>Spacers</b>	25 × 33		D	<b>3SX3 261</b>		1	1 unit	102	0.010
<b>Monitoring units</b>										
	<b>Safety relays with relay outputs, 6-fold</b>	6	2 NO / 1 NC	B	<b>3SE6 806-2CD00</b>		1	1 unit	102	0.200
	Rated control supply voltage									
	24 V DC									

For more monitoring units, see Chapters 6 and 7 and Catalog IK PI.