

SIEMENS

Ingenuity for life



SIRIUS 3SE5 Position Switches

Modular design for all applications

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Introduction:

Accurate and dependable: SIRIUS detecting devices stand guard

There is a lot of information in the field. To capture the data accurately, we need devices which you can rely on. Our comprehensive range of SIRIUS limit switches is just what one need for nearly any field-level application. Our mechanical high-precision limit switches dependably detect any motion sequence, convert the event into electrical signals and transmit the data to your control systems, so that you can immediately shut down your machines and systems if a fault occurs, reliably and with everything under control.

Always in step with developments: The complete range of limit switches

Whatever information you need and no matter how you want to get it, our portfolio offers the right solution. From standard limit switches in a plastic or metal enclosure for any conceivable standard or safety-related application, to switches with short-stroke contact block for high-precision disconnect, and switches with separate actuator or with solenoid interlocking, e.g. for the secure interlocking of protective doors.

Whether you use the switches for standard functions or in safety circuits, no unexpected movement escapes our detecting devices – no matter how harsh the conditions are. Thanks to positive-opening contacts ➡ complying with the standard IEC 60947-5-1 all our mechanical position switches are suitable for use in applications up to Category 4 according to ISO 13849-1 (EN 954-1).

All modules/devices which have positive-opening code can be used in safety circuits.

Features

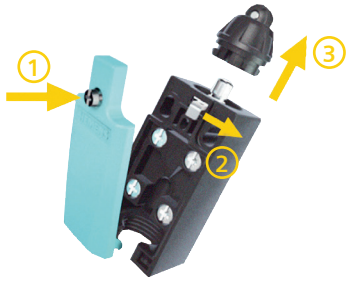
Even more Compact, Modular, Simple to connect:

The new generation of SIRIUS 3SE5 limit switches offers whole series of advantages to meet market demands.

- Modular design with many standardized components reduces the number of variants, simplifies part stockage and increases the availability of spare parts.
- Plug-in design and a standardized interface simplify installation and replacement of the actuator heads.
- Turnable actuator heads around the axis in increments of 22.5°, with total 16 positions
- Quick-connect technology on our plastic enclosures according to EN 50047 (31mm wide) reduces installation time by up to 25%.
- The entire ASIsafe electronics are now integrated into the standard enclosure – ASIsafe now does not take up any extra space.

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

Easy Plug in Method



For fast replacement of actuator heads

- Open the cover
- Actuate the locking lever
- Replace the head Lock
- Lock and close the cover

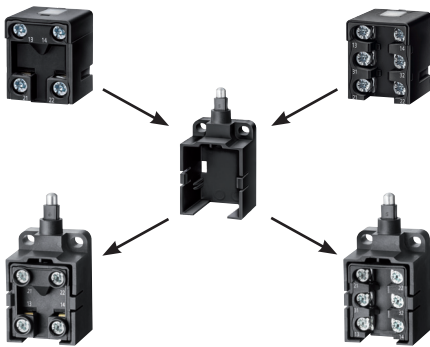
Quick-connect Technology



Ease of wiring

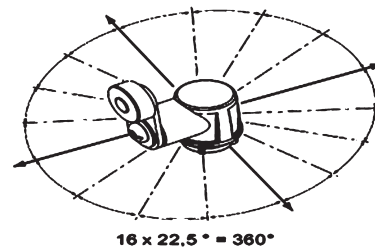
- Connect the cable to terminals
- Guide through the slit into the cable gland opening
- Approx. 20 to 25° wiring time saving

Exchangeable two and three-pole contact blocks



- Both two-pole and three-pole contact blocks fix in same size of enclosures
- Can be very easily exchanged.

Turnable Actuator Heads



- All Actuator heads can be turned around in increments of 22.5°

Optional LED displays



LED Indication (1xGreen + 1xYellow) available for all enclosures

Communication Capable (ASi safe)



Limit Switches are also available with integrated ASi safe electronics



31 mm plastic



50 mm plastic



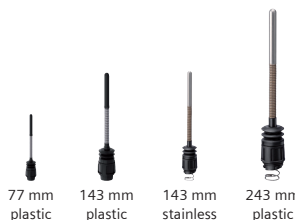
31 mm metal



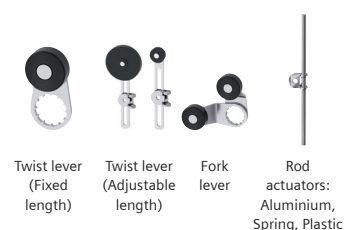
40 mm metal



56 mm metal



Part turn actuator



Selection example

The Standard position switches' modular design facilitates time savings and increased flexibility for the mounting of different switch versions.

Modular selection			
Order example Position switch according to EN 50 047; Molded-plastic enclosure; Contacts 1 NO / 1 NC slow-action contact; Angular roller lever		Order example Position switch according to EN 50 047; Molded-plastic enclosure; Contacts 1 NO / 1 NC slow-action contact; Twist lever	
To be ordered separately:		To be ordered separately:	
 + 		 +  + 	
Actuator head: 3SE5000-0AF10	+	Twist lever: 3SE5000-0AA21	+
Basic switch: 3SE5232-0BC05		Actuator head: 3SE5000-0AK00	+
		Basic switch: 3SE5232-0BC05	

Accessories

	Contacts	Contact blocks for all widths
 Safety switch Positive opening in acc. with IEC 60947-5-1		
Installation in empty enclosure		
Switching points acc. to ...		EN 50 047
Mounting according to ...		EN 50 047
Installation in basic switch EN ... for switching points and mounting depending on basic switch		
Degree of protection	2	IP10
	3	IP10
Order number of basic switch with snap-action contacts ¹⁾	1 NO / 1 NC	3SE5000-0YA00
	1 NO / 2 NC	3SE5000-0LA00
Order number of basic switch with slow-action contacts ²⁾	1 NO / 1 NC	3SE5000-0BA00
	1 NO / 2 NC	3SE5000-0KA00

Applications:

Limit switches are used to detect (end) positions of moving machine and plant parts. Limit switches are used in automatic control circuits where mechanical positions have to be converted into electrical signals for controlling remote starters, contactors etc.

The 3SE5 limit switches are ideally suited for control of machine tools, elevators, cranes, conveyors, gates, doors and various other applications.

Standards:

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

- 1) Snap action contacts: NC & NO contacts switch simultaneously, irrespective of the actuating speed
- 2) Slow action contacts: the switching speed is equal to the actuating speed difference in travel (zero current interval) between NO & NC contact $V_{min} = 0.4 \text{ m/s}$.

Technical specifications

Type		Open Type	Enclosed Type			
			Plastic		Metal	
		3SE5 25	3SE5 232	3SE5 242	3SE5 212	3SE5 112
General data						
Standards		IEC 60947-5-1, EN 60947-5-1				
Rated insulation voltage U_i Degree of pollution according to IEC 60664-1	V	415 ¹⁾ Class 3				
Rated impulse withstand voltage U_{imp}	kV	6 ¹⁾				
Rated operational voltage U_e	V	400 AC ¹⁾ ; over 300 V AC Same potential only ²⁾				
Conventional thermal current I_{th}	A	10A (2P) & 6A (3P)				
Rated operational current I_e • With alternating current 50/60 Hz - At 24 V - At 120 V - At 240 V • For direct current - At 24 V - At 125 V - At 250 V	 A A A A A A A	2-pole I_e / AC-15 6 6 3 I_e / DC-13 3 0.55 0.27		3-pole I_e / AC-15 6 3 1.5 I_e / DC-13 3 0.55 0.27		
Short-circuit protection ³⁾ • With DIAZED fuse links, Operational class gG	A	6				
Mechanical endurance • Basic switch • With spring rod, 3SE5...-..R.. • With fork lever, 3SE51...-..T..		15 × 10 ⁶ operating cycles 10 × 10 ⁶ operating cycles 1 × 10 ⁶ operating cycles				
Electrical endurance • With 3RH.1, 3RT contactors in size S00, S0 • For utilization category AC-15 when switching off I_e / AC-15 at 240 V • With utilization category DC-12/DC-13		10 × 10 ⁶ operating cycles 100 000 operating cycles For direct current depending on the loading of the switch				
Switching frequency With 3RH.1, 3RT contactors in size S00, S0		6 000 operating cycles/h				
Switching accuracy For repeated switching, measured at the plunger of the contact block • With twist actuators	mm	0.05 1°				
Rated data according to   and  • Rated voltage • Uninterrupted current • Switching capacity	V A	300 6 Heavy duty, A 300 / B 300 / Q 300 A 300 / Q 300				

Type		3SE523.	3SE524.	3SE521.	3SE511.	3SE512.
Enclosure						
Enclosure						
• Material		Ultramid A3X2G7		Zinc diecasting GD Zn Al4 Cu1		
• Width	mm	31	50	31	40	56
Degree of protection acc. to IEC 60529		IP65	IP66/IP67 ¹⁾			
Ambient temperature						
• During operation	°C	−25 ... +85				
• In operation, switch with LEDs	°C	−25 ... +70				
• Storage, transport	°C	−40 ... +90				
Mounting position		Any				
Connection						
Cable entry		1x (M20x1.5)	2x (M20x1.5)	1x (M20x1.5)		
Conductor cross-sections						
• Solid	mm ²	1 x (0.5 ... 1.5), 2 x (0.5 ... 0.75)				
• Finely stranded with/without end sleeve	mm ²	1 x (0.5 ... 1.5), 2 x (0.5 ... 0.75)				
Tightening torque, contact block		0.8 ... 1.0				
		--		M3.5		

1) For slow-action contact 1NO+2NC with make before break (M) and 2NO+1NC (P) the following applies: 250V, For M type & P type U_{imp} 4kV, U_i 250V, U_e ¹⁾ For M type P type U_i 250V

2) For slow-action contact 1NO+2NC with make before break (M) and 2NO+1NC (P) the following applies: over 250V AC only equal potential

3) Without any welds according to IEC-60947-5-1

Selection and ordering data

Selection of basic switches

	Contacts	Molded-plastic enclosure		Metal enclosure		
		31 mm width	50 mm width	31 mm width	40 mm width	56 mm width
 Safety switch Positive opening in acc. with IEC 60947-5-1						
Switching points acc. to ...		EN 50 047		EN 50 041		
Mounting according to ...		EN 50 047		EN 50 041		
Degree of protection		IP65	IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67
Number of screw connections M20 x 1.5	–	1	2	1	1	3
Order number of basic switch with snap-action contacts ¹⁾	1NO/1NC	3SE5232-0YC05	3SE5242-0YC05	3SE5 212-0YC05	3SE5112-0YA00	3SE5122-0YA00
	1NO/2NC	3SE5232-0LC05	3SE5242-0LC05	3SE5 212-0LC05	3SE5112-0LA00	3SE5122-0LA00
Order number of basic switch with slow-action contacts ²⁾	1NO/1NC	3SE5232-0BC05	3SE5242-0BC05	3SE5 212-0BC05	3SE5112-0BA00	3SE5122-0BA00
	1NO/2NC	3SE5232-0KC05	3SE5242-0KC05	3SE5 212-0KC05	3SE5112-0KA00	3SE5122-0KA00
	2NO+1NC	3SE5232-0PC05	3SE5242-0PC05	3SE5 212-0PC05	3SE5112-0PA00	3SE5122-0PA00
Order number of basic switch with make before contacts	1NO+2NC	3SE5232-0MC05	3SE5242-0MC05	3SE5 212-0MC05	3SE5112-0MA00	3SE5122-0MA00

Open Type

IP 10				
Housing Type		Contact Arrangement	No. of Contacts	Type
Open		Snap action	1NO + 1NC	3SE5 250-0YC05
		Slow action		3SE5 250-0BC05
Open		Snap action	1NO + 2NC	3SE5 250-0LC05
		Slow action		3SE5 250-0KC05
		Slow action contacts with make before break	1NO + 2NC	3SE5 250-0MC05
		Slow action	2NO + 1 NC	3SE5 250-0PC05

Plastic Enclosed: Modular unit

Basic switch				
Housing Type		Contact Arrangement	No. of Contacts	Type
31mm (IP65)		Snap Action	1NO + 1NC	3SE5 232-0YC05
		Slow Action		3SE5 232-0BC05
		Snap Action	1NO + 2NC	3SE5 232-0LC05
		Slow Action		3SE5 232-0KC05
		Slow-action contacts with make-before-break		3SE5 232-0MC05
		Slow Action	2NO + 1NC	3SE5 232-0PC05
50mm (IP66/67)		Snap Action	1NO + 1NC	3SE5 242-0YC05
		Slow Action		3SE5 242-0BC05
		Snap Action	1NO + 2NC	3SE5 242-0LC05
		Slow Action		3SE5 242-0KC05
		Slow-action contacts with make-before-break		3SE5 242-0MC05
		Slow Action	2NO + 1NC	3SE5 242-0PC05

Note: The basic switch comes with Teflon plunger, in case of Rounded plunger requirements no need to order Actuator separately

Actuator heads for 31mm plastic, 50mm plastic & 31mm metal housing

Plastic Roller Actuators heads			Metal Roller Actuators heads		
Actuator Type	Actuators heads	Type	Actuator Type	Actuators heads	Type
Rounded Plunger			Roller Plunger		3SE5 000-0AD04
Roller Plunger		3SE5 000-0AD03	Roller lever		3SE5 000-0AE11
Roller lever		3SE5 000-0AE10	Part turn actuator for twist lever		3SE5 000-0AK00
Angular Roller lever		3SE5 000-0AF10	Twist Lever (Adjustable)		3SE5 000-0AA51
Part turn actuator for twist lever		3SE5 000-0AK00	Plain Plunger		3SE5 000-0AB01
Twist Lever		3SE5 000-0AA21			
Twist Lever (Adjustable)		3SE5 000-0AA50			

Metal Enclosed: Modular unit

Basic switch				
Housing Type		Contact Arrangement	No. of Contacts	Type
31mm (IP66/67)		Snap Action	1NO + 1NC	3SE5 212-0YC05
		Slow Action		3SE5 212-0BC05
		Snap Action	1NO + 2NC	3SE5 212-0LC05
		Slow Action		3SE5 212-0KC05
		Slow action contacts with make before break		3SE5 212-0MC05
		Slow Action	2NO + 1NC	3SE5 212-0PC05
40mm (IP66/67)		Snap Action	1NO + 1NC	3SE5 112-0YA00
		Slow Action		3SE5 112-0BA00
		Snap Action	1NO + 2NC	3SE5 112-0LA00
		Slow Action		3SE5 112-0KA00
		Slow action contacts with make before break		3SE5 112-0MA00
		Slow Action	2NO + 1NC	3SE5 112-0PA00
56mm (IP66/67)		Snap Action	1NO + 1NC	3SE5 122-0YA00
		Slow Action		3SE5 122-0BA00
		Snap Action	1NO + 2NC	3SE5 122-0LA00
		Slow Action		3SE5 122-0KA00
		Slow action contacts with make before break		3SE5 122-0MA00
		Slow Action	2NO + 1NC	3SE5 122-0PA00

Actuator heads for 40mm metal & 56mm metal housing

Metal Roller Actuators heads		
Actuator Type	Actuators heads	Type
Rounded Plunger		3SE5 000-0AC02
Roller Plunger		3SE5 000-0AD02
Roller lever		3SE5 000-0AE02
Angular Roller lever		3SE5 000-0AF02
Part turn actuator for twist lever		3SE5 000-0AH00
Twist Lever		3SE5 000-0AA02
Twist Lever (Adjustable)		3SE5 000-0AA51

Plastic Roller Actuators heads		
Actuator Type	Actuators heads	Type
Roller lever		3SE5 000-0AE01
Angular Roller lever		3SE5 000-0AF01
Part turn actuator for twist lever		3SE5 000-0AH00
Twist Lever		3SE5 000-0AA01
Twist Lever (Adjustable)		3SE5 000-0AA50
Fork type		3SE5 000-0AT01
Mounting Head for Fork Type		3SE5 000-0AT10

Spares and Accessories

Spare Type	Type	Description	Type
Empty enclosures		Empty enclosures without contact block	3SE5 250-0AC05

Spare Type		Contact Arrangement	No. of Contacts	Type
Contact block		Snap action	1NO + 1NC	3SE5 000-0YA00
		Slow action		3SE5 050-0BA00*
		Snap action		3SE5 000-0YA00
		Slow action		3SE5 000-0BA00\$
		Slow action	1NO + 2NC	3SE5 000-0KA00
		Snap action		3SE5 000-0LA00
		Slow-action make-before-break contacts		3SE5 000-0MA00
		Slow action		3SE5 000-0PA00

Note: \$ 3SE5000-0BA00 can be used only with enclosed type switch

* Suitable for Open execution

Accessory Type		Description	Type
Cable gland		Molded Plastic Cable Gland, M20X1.5	3SX9926
Protective Cap		Protective Cap. Acc. to EN50047, for protection of rounded plunger	3SE5 000-0AC30

Empty enclosures:

Actuator Type		Type	Type
31MM		Plastic	3SE5 232-0AC05
50MM			3SE5 242-0AC05
31MM		Metal	3SE5 212-0AC05
40MM			3SE5 112-0AA00
56MM			3SE5 122-0AA00

Installation Guide

Points to be noted before installing limit switches:

- Permissible type of actuator
- Direction of approach
- Actuation speed
- Distance between actuator and cam
- Form of actuating element
- Favorable material pair (actuator head - actuator)

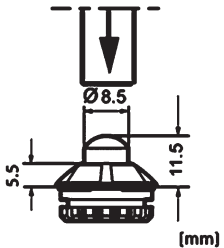
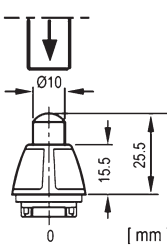
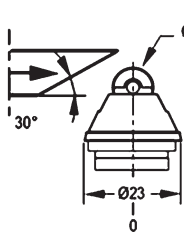
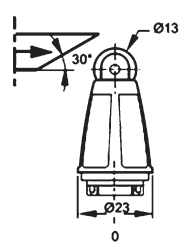
*All limit switches operate independently of their position.

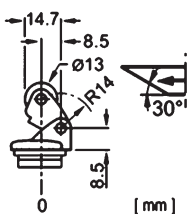
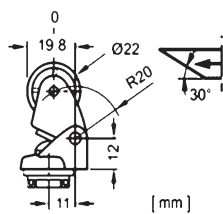
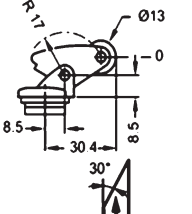
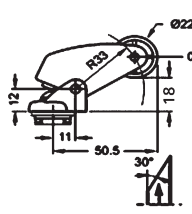
*Limit Switches should never be used as mechanical stop.

The adjustable-length twist lever is intended for cases where an actuating element with approach angle and trailing angle is not possible for technological reasons (e.g., packages, bottles, etc.)

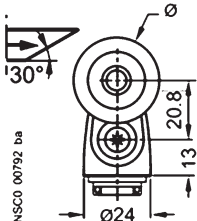
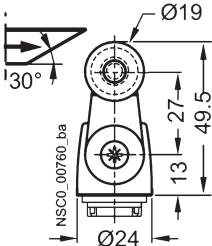
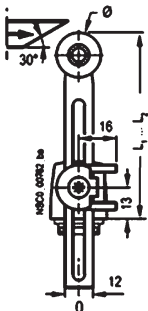
Mechanical Conditions for Switch Selection

- The actuator must be selected according to the operating method.
- Check the operating speed and switching frequency.
 1. If the operating speed is extremely low, the switching of the movable contact will become unstable, thus resulting in incorrect contact or contact weld.
 2. If the operating speed is extremely high, the Switch may break due to shock. If the switching frequency is high, the switching of the contacts cannot catch up with the switching frequency. Make sure that the switching frequency is within the rated switching frequency.
- Do not impose excessive force on the actuator, otherwise the actuator may get damaged or may not operate correctly.
- Make sure that the stroke is set within the suitable range specified for the model, or otherwise the Switch may break.

	Plain Plunger		Roller Plunger	
				
	OAB01	OAC02	OAD03	OAD02
Approach Direction	In travel Direction	In travel Direction	Perpendicular to travel axis	Perpendicular to travel axis
Approach Velocity	$v \leq 1.5 \text{ m/s}$	$v \leq 1.5 \text{ m/s}$	$v \leq 1 \text{ m/s}$	$v \leq 1 \text{ m/s}$
Overtravel	–	3mm	–	3mm
Plunger/Roller type	Stainless Steel	Stainless Steel	Plastic	Stainless Steel

	Roller Lever		Angular Roller Lever	
				
	OAE10	OAE01	OAF10	OAF01
Approach Direction	Right	Right	Below	Below
Approach Velocity	$v \leq 1 \text{ m/s}$	$v \leq 1 \text{ m/s}$	$v \leq 1 \text{ m/s}$	$v \leq 1 \text{ m/s}$
Lever type	Metal	Metal	Metal	Metal
Roller type	Plastic	Plastic	Plastic	Plastic
Roller Ø	13mm	22mm	13mm	22mm

Actuating force for all variant $6 \pm 1.5 \text{ N}$

Fixed Length Twist Lever		Adjustable Length Twist Lever
		
OAA21	OAA01	OAA50
Both Left and Right	Both Left and Right	Both Left and Right
$v \leq 1.5$ m/s	$v \leq 1.5$ m/s	$v \leq 1.5$ m/s
Metal	Metal	Metal
Plastic	Plastic	Plastic
21mm	27mm	100mm
19mm	19mm	19mm

Electrical Connection:

2 Contacts

	Terminal Diagram	Operating Travel Diagram
Snap Action		
Slow Action		



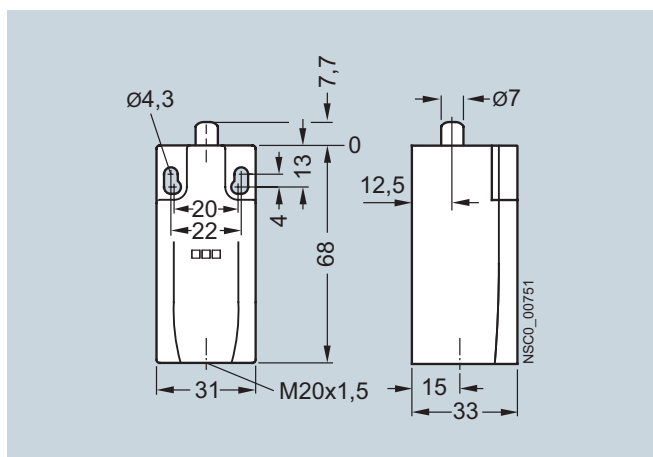
3 Contacts

	Terminal Diagram	Operating Travel Diagram
Snap Action		
Slow Action		
Slow-action make-before-break contacts		

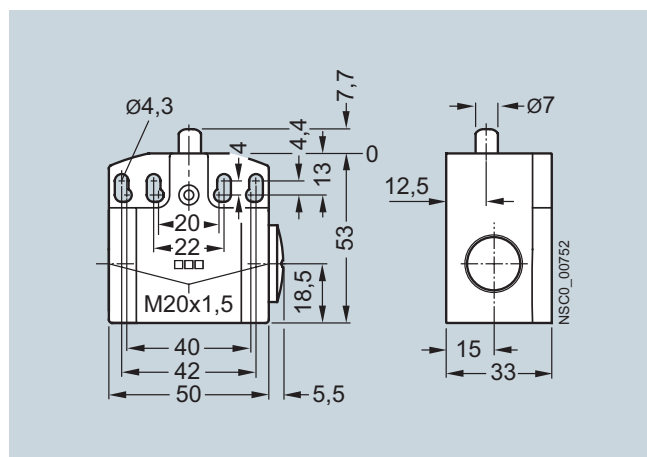


Dimensional Drawings:

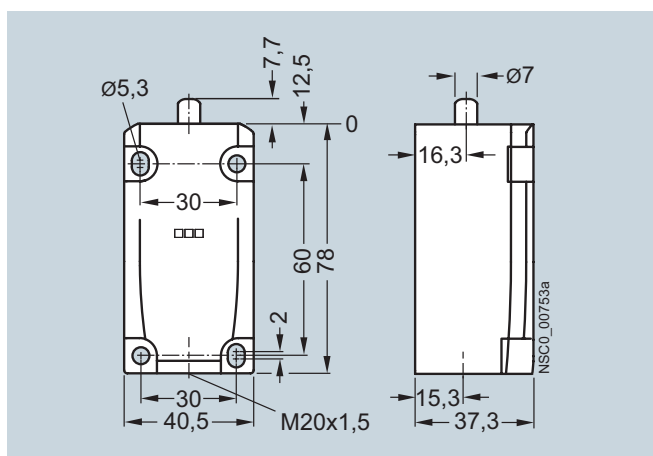
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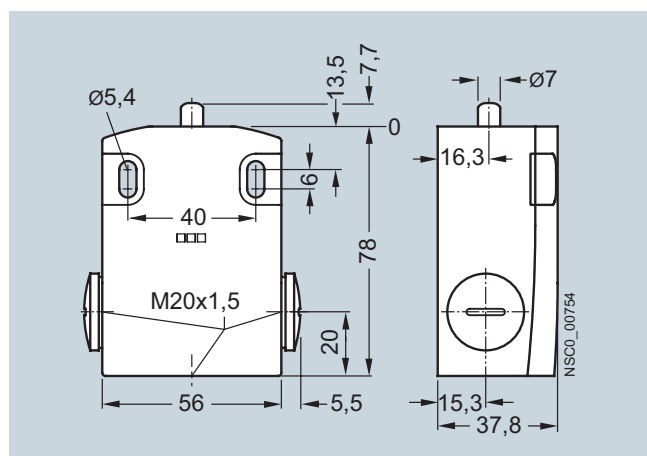
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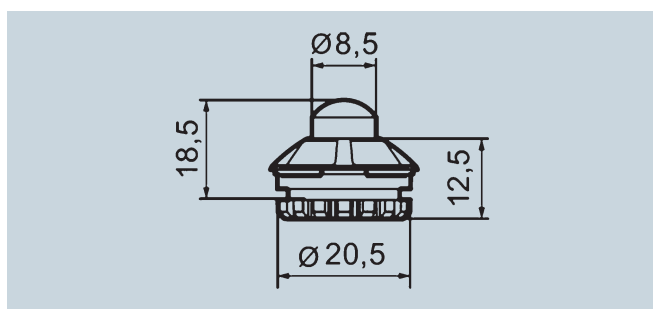
3SE5 112



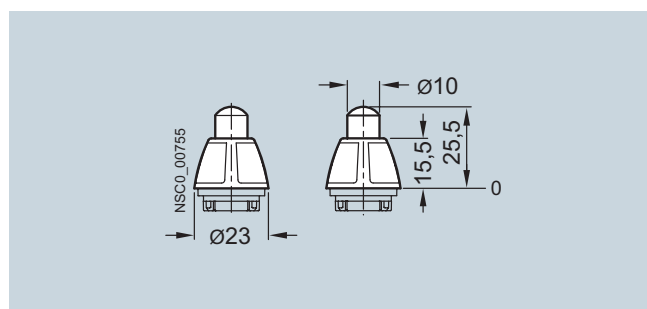
3SE5 122



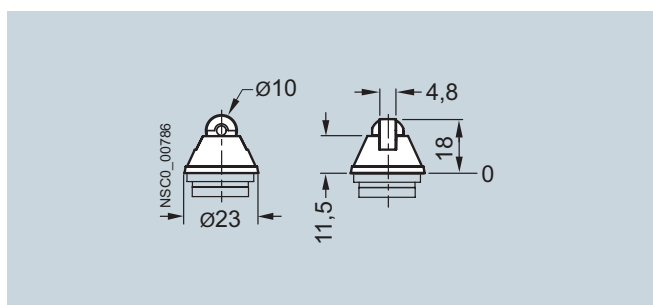
OAB01



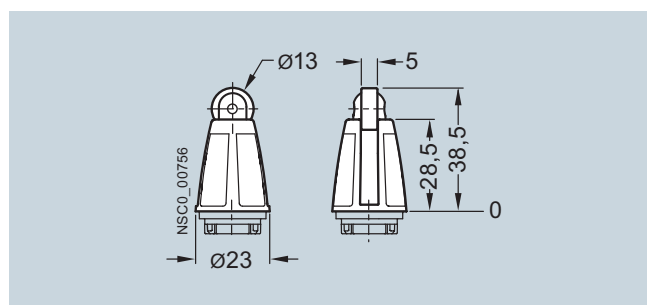
OAC02



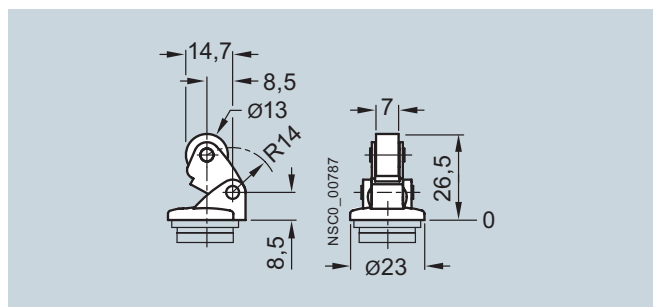
OAD03



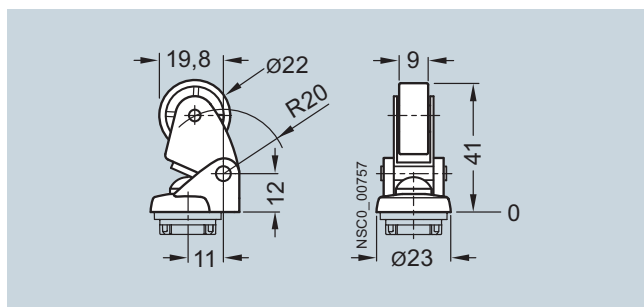
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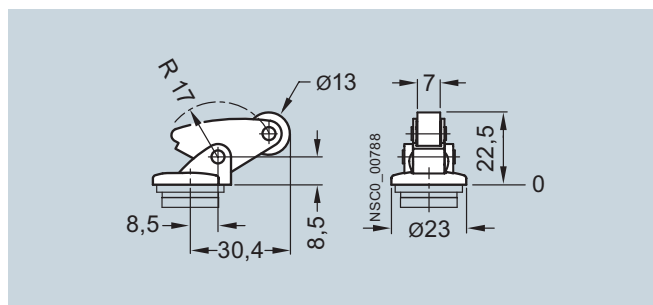
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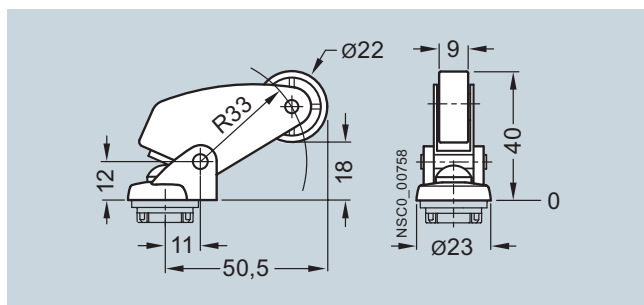
OAE01



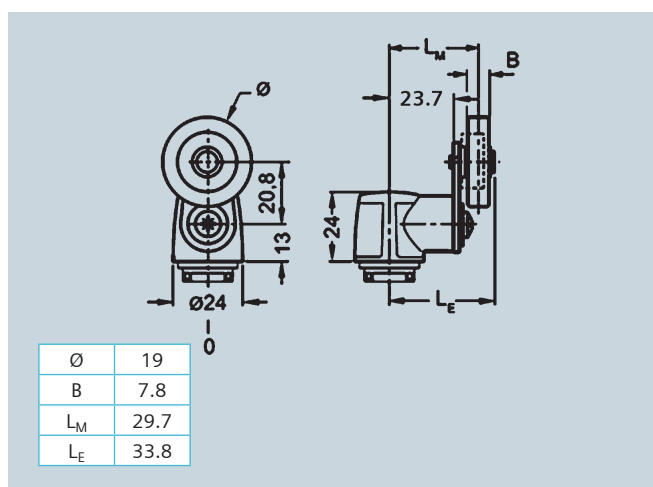
OAF10



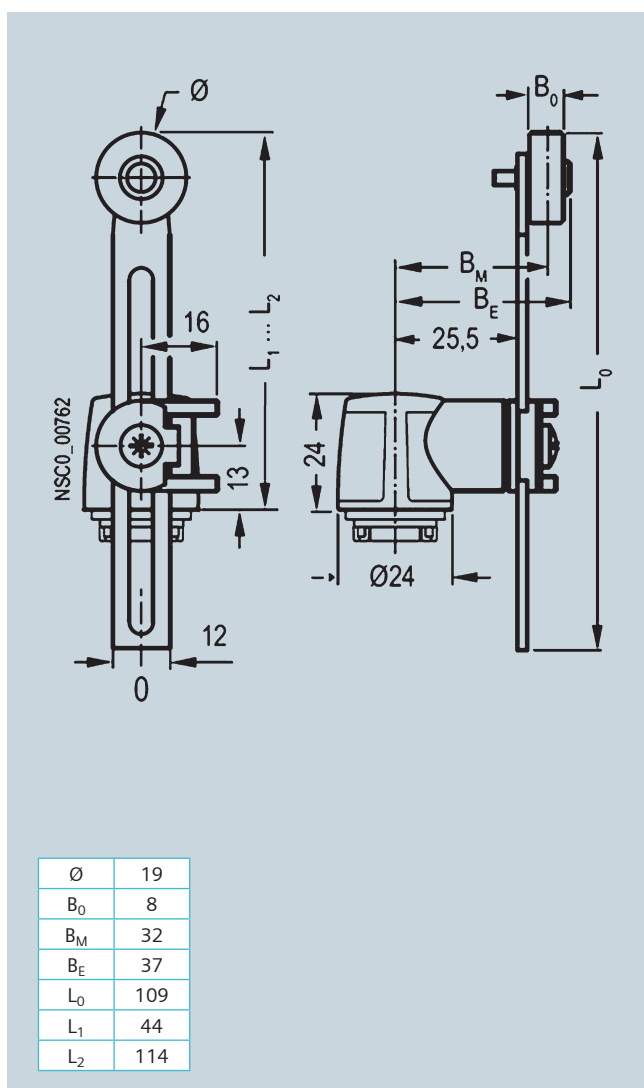
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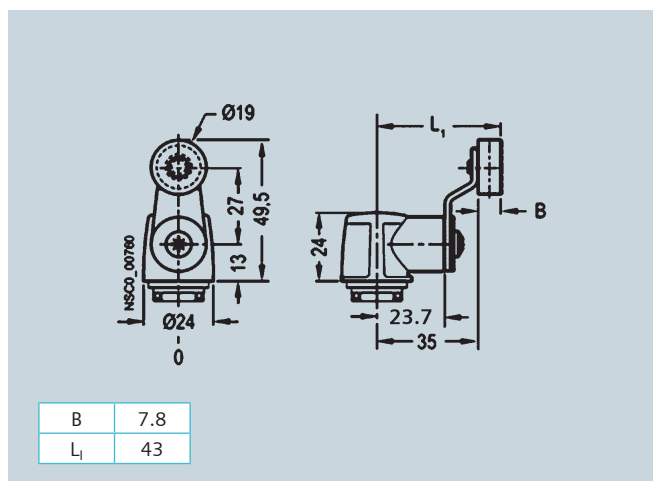
OAA21



OAA50



OAA01



Notes

Notes

Notes

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