

SIGUARD Position Switches

Standard Position Switches

Molded-plastic enclosures, 31 and 50 mm wide

Further information

Operation, operating speed and travel or angle of actuators

Bars, cams, stops, etc. are used as actuating devices. The shape of the actuating device must provide the given angles for the leading and trailing edges.

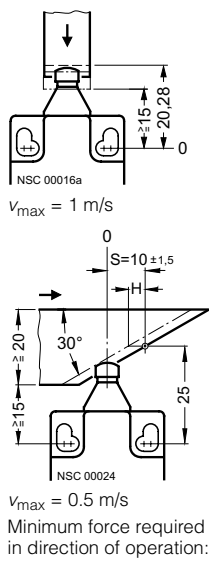
Actuating speed in the direction of plunger axis

The actuating speed in the case of position switches with slow-action contacts is not permitted to go lower than 15 mm/s for DC and 1 mm/s for AC. Position switches with snap-action contacts should be used when the speeds are lower.

Operation by a bar	Switch blocks	Nominal travel	Switch blocks	Nominal travel
<ul style="list-style-type: none"> ⊙ operating point acc. to EN 50047 v_{max} max. operating speed S travel acc. to EN 50047 H travel difference → direction of operation 	Terminal designation acc. to EN 50013	<ul style="list-style-type: none"> 0-line reference line acc. to EN 50047 S travel acc. to EN 50047 ■ contact closed □ contact open * operating point on return ** positive opening to IEC 60947-5-1 		

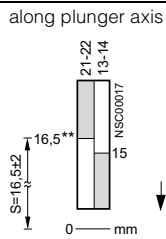
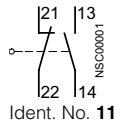
Rounded plungers, Type B

3SE2 200-C,
3SE2 210-C

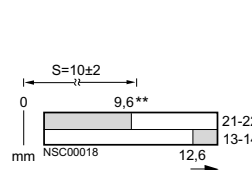


Slow-action contacts

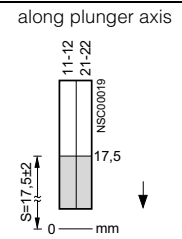
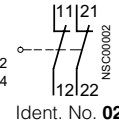
1 NO + 1 NC



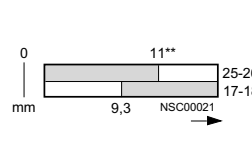
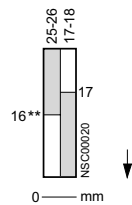
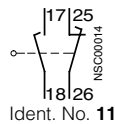
lateral actuation



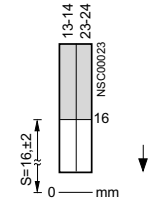
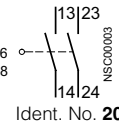
2 NC



1 NO + 1 NC with make-before-break

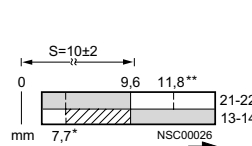
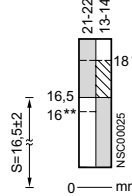
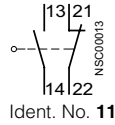


2 NO



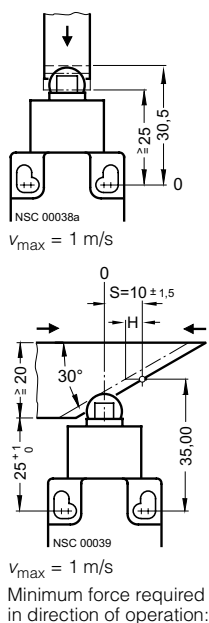
Snap-action contacts

1 NO + 1 NC



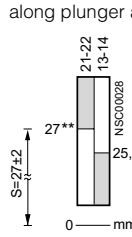
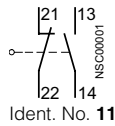
Roller plungers, Type C

3SE2 200-D,
3SE2 210-D

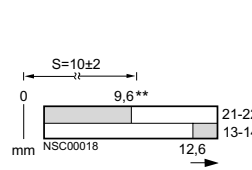


Slow-action contacts

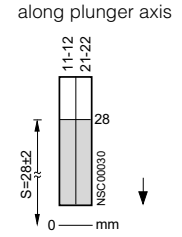
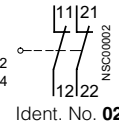
1 NO + 1 NC



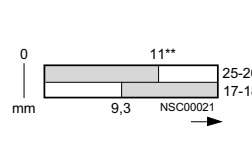
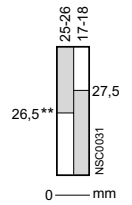
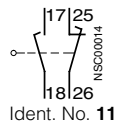
lateral actuation



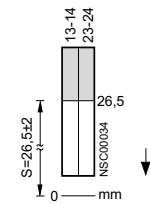
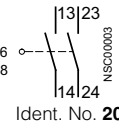
2 NC



1 NO + 1 NC with make-before-break

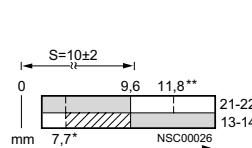
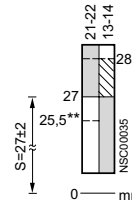
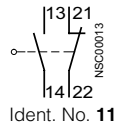


2 NO



Snap-action contacts

1 NO + 1 NC



SIGUARD Position Switches

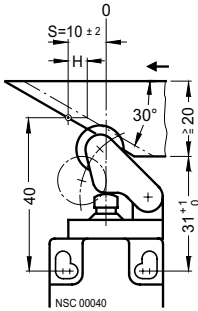
Standard Position Switches

Molded-plastic enclosures, 31 and 50 mm wide

Operation by a bar		Switch blocks	Nominal travel	Switch blocks	Nominal travel
○	operating point acc. to EN 50047	Terminal designation acc. to EN 50013	0-line reference line acc. to EN 50047		
V_{max}	max. operating speed		S travel acc. to EN 50047		
S	travel acc. to EN 50047		■ contact closed		
H	travel difference		□ contact open		
→	direction of operation		* operating point on return		
			** positive opening to IEC 60947-5-1		

Roller levers, Type E

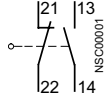
3SE2 200--E,
3SE2 210--E



$V_{max} = 1 \text{ m/s}$
Minimum force required in direction of operation: 9 N

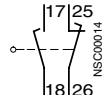
Slow-action contacts

1 NO + 1 NC



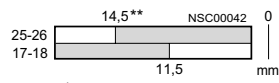
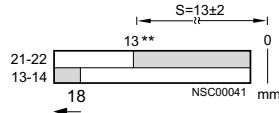
Ident. No. 11

1 NO + 1 NC with make-before-break



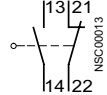
Ident. No. 11

lateral actuation

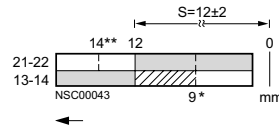


Snap-action contacts

1 NO + 1 NC

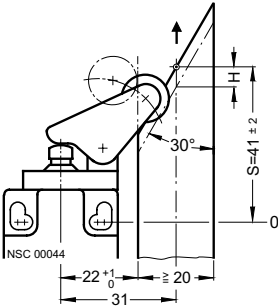


Ident. No. 11



Angular roller levers

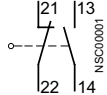
3SE2 200--F,
3SE2 210--F



$V_{max} = 1 \text{ m/s}$
Minimum force required in direction of plunger axis: 9 N
The example for approach is only applicable to 3SE2 200.
It is not possible in this way for 3SE2 210.

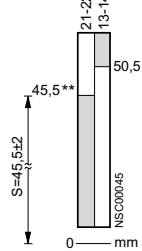
Slow-action contacts

1 NO + 1 NC

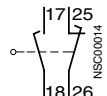


Ident. No. 11

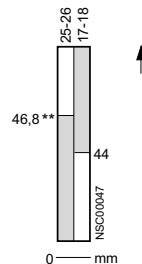
along plunger axis



1 NO + 1 NC with make-before-break

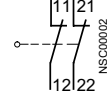


Ident. No. 11

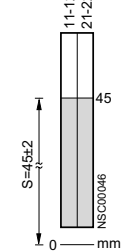


along plunger axis

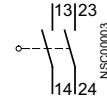
2 NC



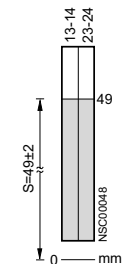
Ident. No. 02



2 NO

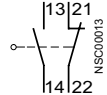


Ident. No. 20

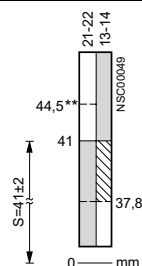


Snap-action contacts

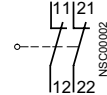
1 NO + 1 NC



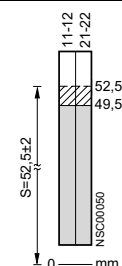
Ident. No. 11



2 NC



Ident. No. 02



SIGUARD Position Switches

Standard Position Switches

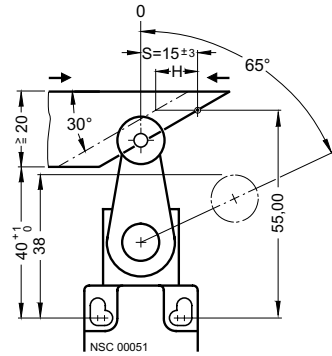
Molded-plastic enclosures, 31 and 50 mm wide

Operation by a bar		Switch blocks	Nominal travel	Switch blocks	Nominal travel
○	operating point acc. to EN 50047	Terminal designation acc. to EN 50013	0-line reference line acc. to EN 50047		
v_{max}	max. operating speed		S travel acc. to EN 50047		
S	travel acc. to EN 50047		■ contact closed		
H	travel difference		□ contact open		
→	direction of operation		* operating point on return		
			** positive opening to IEC 60947-5-1		

Twist levers, Type A

finely adjustable from 10° to 10°

3SE2 200-G

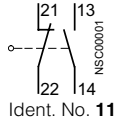


$v_{max} = 1 \text{ m/s}$

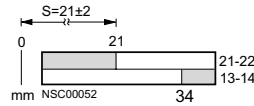
Minimum force required in direction of operation: 18 N

Slow-action contacts

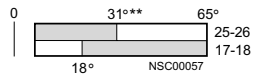
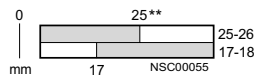
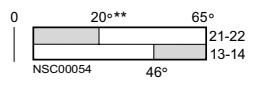
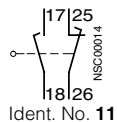
1 NO + 1 NC



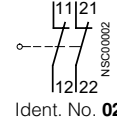
lateral actuation



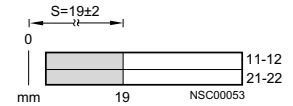
1 NO + 1 NC with make-before-break



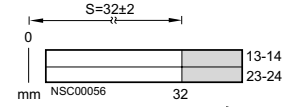
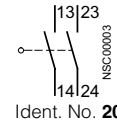
2 NC



lateral actuation

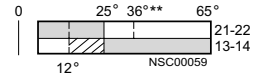
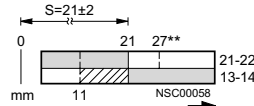
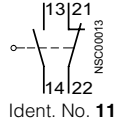


2 NO



Snap-action contacts

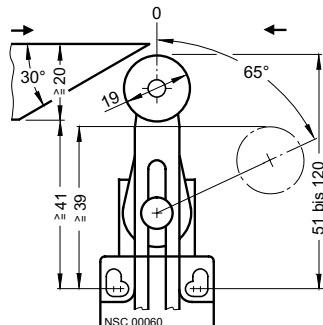
1 NO + 1 NC



Twist levers

adjustable length, finely adjustable from 10° to 10°

3SE2 200-U, 3SE2 210-U

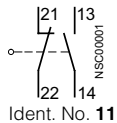


$v_{max} = 1 \text{ m/s}$

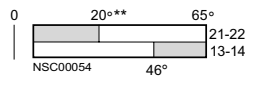
Minimum force required in direction of operation: 18 N

Slow-action contacts

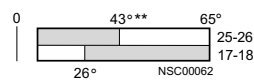
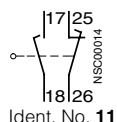
1 NO + 1 NC



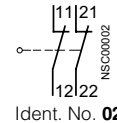
lateral actuation



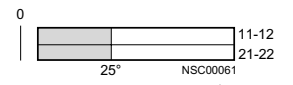
1 NO + 1 NC with make-before-break



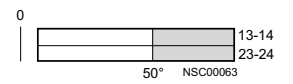
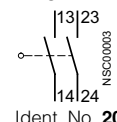
2 NC



lateral actuation

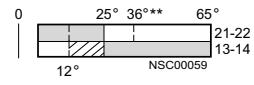
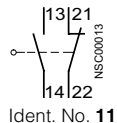


2 NO



Snap-action contacts



1 NO + 1 NC



SIGUARD Position Switches

Standard Position Switches

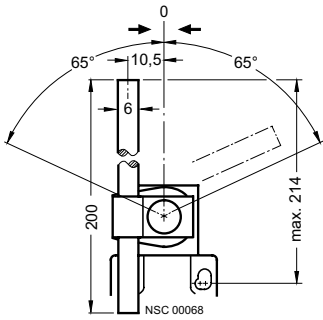
Molded-plastic enclosures, 31 and 50 mm wide

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v_{max}	max. operating speed			contact closed		
→	direction of operation			contact open		
			*	operating point on return		

Rod actuators

finely adjustable from 10° to 10°

- 3SE2 200-W,
- 3SE2 210-W
- 3SE2 200-V,
- 3SE2 210-V
- 3SE2 200-S,
- 3SE2 210-S

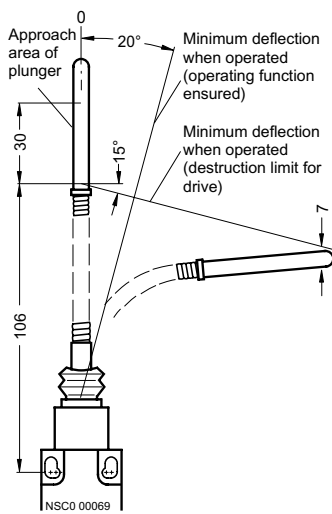


$v_{max} = 1.5 \text{ m/s}$

Minimum force required in direction of operation: 18 N

Spring rods

- 3SE2 200-1R,
- 3SE2 210-1R

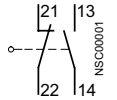


$v_{max} = 1.5 \text{ m/s}$

Minimum force required in direction of operation: 18 N

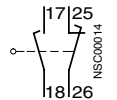
Slow-action contacts

1 NO + 1 NC



Ident. No. 11

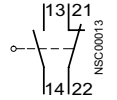
1 NO + 1 NC with make-before-break



Ident. No. 11

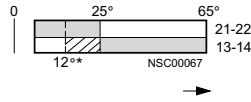
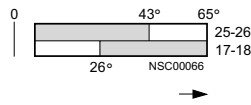
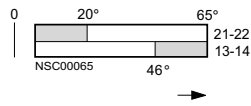
Snap-action contacts

1 NO + 1 NC



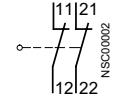
Ident. No. 11

in direction of rotation

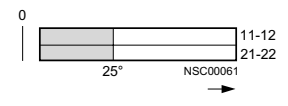


in direction of rotation

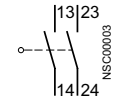
2 NC



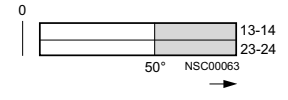
Ident. No. 02



2 NO



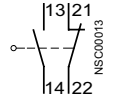
Ident. No. 20



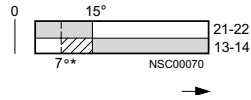
lateral actuation

Snap-action contacts

1 NO + 1 NC





Ident. No. 11



SIGUARD Position Switches

Standard Position Switches

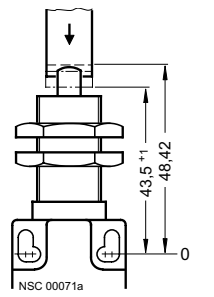
Molded-plastic enclosures, 31 and 50 mm wide

Operation by a bar		Switch blocks	Nominal travel		Switch blocks	Nominal travel
○	operating point acc. to EN 50047	Terminal designation acc. to EN 50013	0-line	reference line acc. to EN 50047		
v_{max}	max. operating speed		S	travel acc. to EN 50047		
S	travel acc. to EN 50047			contact closed		
H	travel difference			contact open		
→	direction of operation		*	operating point on return		
			**	positive opening to IEC 60947-5-1		

Rounded plungers

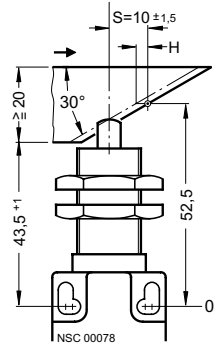
Central fixing with M 18 thread

3SE2 200-L,
3SE2 210-L



NSC 00071a

$v_{max} = 1 \text{ m/s}$



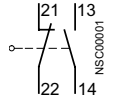
NSC 00078

$v_{max} = 0.5 \text{ m/s}$

Minimum force required in direction of operation: 9 N

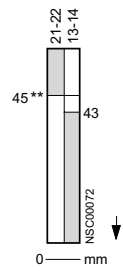
Slow-action contacts

1 NO + 1 NC

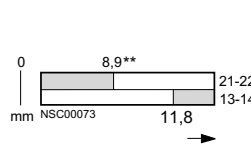


Ident. No. **11**

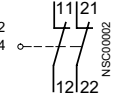
along plunger axis



lateral actuation

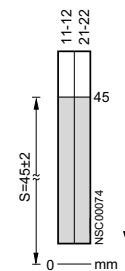


2 NC

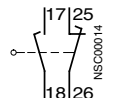


Ident. No. **02**

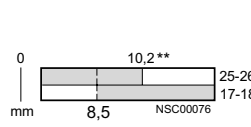
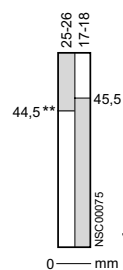
along plunger axis



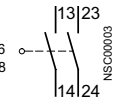
1 NO + 1 NC with make-before-break



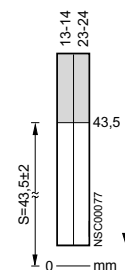
Ident. No. **11**



2 NO

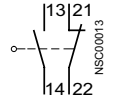


Ident. No. **20**

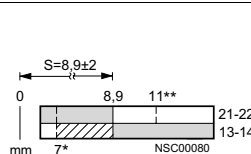
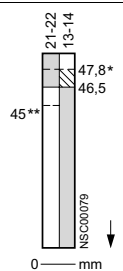


Snap-action contacts

1 NO + 1 NC



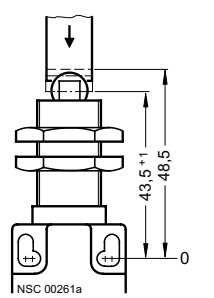
Ident. No. **11**



Roller plungers

Central fixing with M 18 thread

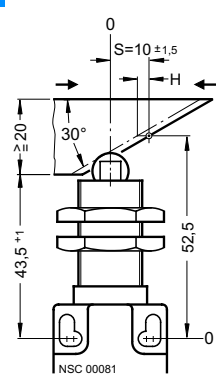
3SE2 200-M,
3SE2 210-M



NSC 00261a

$v_{max} = 1 \text{ m/s}$

Minimum force required in direction of operation: 9 N



NSC 00081

$v_{max} = 1 \text{ m/s}$

Minimum force required in direction of operation: 9 N