3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

Configuration

Operation, operating speed and travel or angle of actuators

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

Actuating speed in the direction of the plunger axis

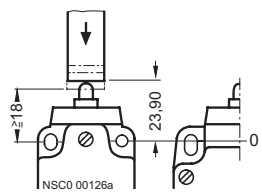
The actuating speed in the case of position switches with slow-action contacts is not permitted to go lower than 15 mm/s for DC and 1 mm/s for AC. Position switches with snap-action contacts should be used when the speeds are lower.

Position switches with 2 or 4 contacts

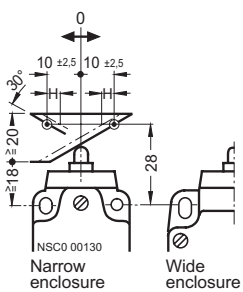
Operation by bar		Switch blocks	Nominal travel		Switch blocks	Nominal travel
⊙	Operating point acc. to EN 50041	Terminal designation acc. to EN 50013	0-line	Reference line acc. to EN 50041		
v_{max}	Max. operating speed		S	Operating travel acc. to EN 50041		
0-line	Reference line acc. to EN 50041		▬	Contact closed		
			▭	Contact open		
H	Travel difference		*	Operating point on return		
→	Direction of operation		**	Positive opening acc. to IEC 60947-5-1		

Plungers — Along plunger axis / Lateral actuation / Along plunger axis

3SE2 100–.B,
3SE2 120–.B,
3SE2 404–.B



v_{max} = 1.5 m/s

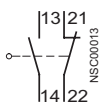


v_{max} = 0.5 m/s

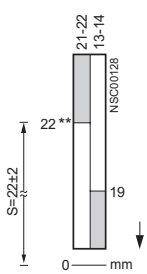
Minimum force required in direction of operation: 12 N

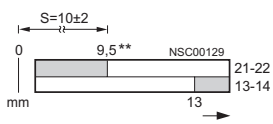
Slow-action contacts

1 NO + 1 NC

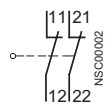


3SE3 000–0A,
3SE3 010–0A,
Ident. No.**11**

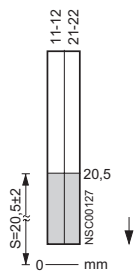




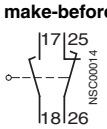
2 NC



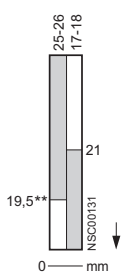
3SE3 000–6A,
Ident. No. **02**

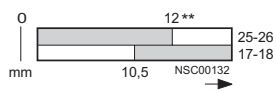


1 NO + 1 NC with make-before-break

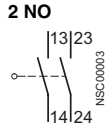


3SE3 000–3A,
3SE3 010–3A,
Ident. No. **11**

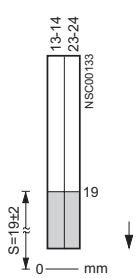




2 NO

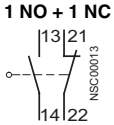


3SE3 000–7A,
Ident. No. **20**

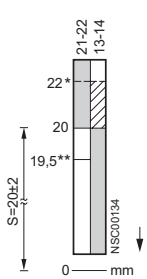


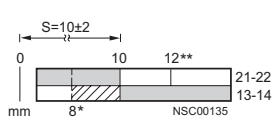
Snap-action contacts

1 NO + 1 NC

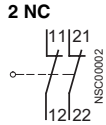


3SE3 000–1A,
3SE3 010–1A,
Ident. No. **11**

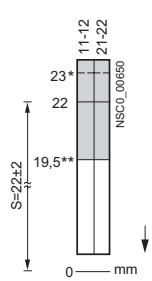




2 NC



3SE3 000–1AV00,
3SE3 010–1AV00,
Ident. No. **02**

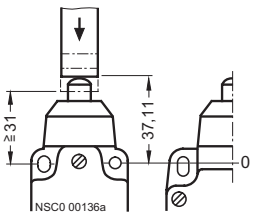


Position switches with 2 or 4 contacts

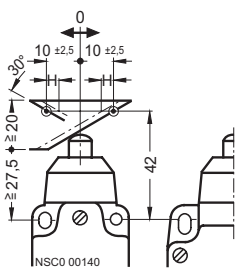
Operation by bar		Switch blocks	Nominal travel		Switch blocks	Nominal travel
⊙	Operating point acc. to EN 50041	Terminal designation acc. to EN 50013	0-line	Reference line acc. to EN 50041		
v_{max}	Max. operating speed		S	Operating travel acc. to EN 50041		
0-line	Reference line acc. to EN 50041		▬	Contact closed		
H	Travel difference		▭	Contact open		
→	Direction of operation		*	Operating point on return		
			**	Positive opening acc. to IEC 60947-5-1		

Rounded plungers, type B

3SE2 100–.C,
3SE2 120–.C,
3SE2 230–.C,
3SE2 404–.C



v_{max} = 1.5 m/s



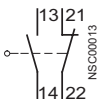
v_{max} = 0.5 m/s

Minimum force required in direction of operation: 32 N

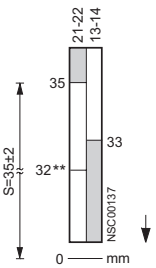
Along plunger axis Lateral actuation Along plunger axis

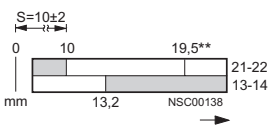
Slow-action contacts

1 NO + 1 NC

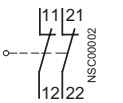


3SE3 000–0A,
3SE3 010–0A,
Ident. No.**11**

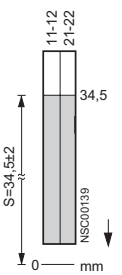




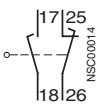
2 NC



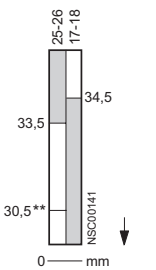
3SE3 000–6A,
Ident. No. **02**

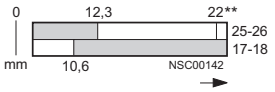


1 NO + 1 NC with make-before-break

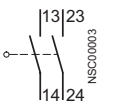


3SE3 000–3A,
3SE3 010–3A,
Ident. No. **11**

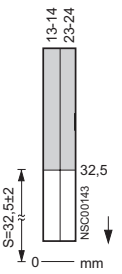




2 NO

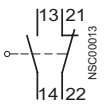


3SE3 000–7A,
Ident. No. **20**

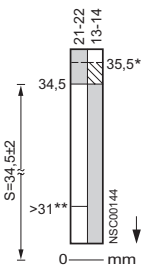


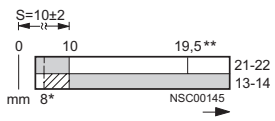
Snap-action contacts

1 NO + 1 NC

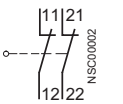


3SE3 000–1A,
3SE3 010–1A,
Ident. No. **11**

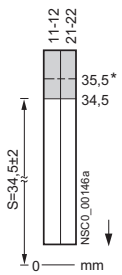




2 NC



3SE3 000–1AV00,
3SE3 010–1AV00,
Ident. No. **02**



3SE2, 3SE3 Position Switches

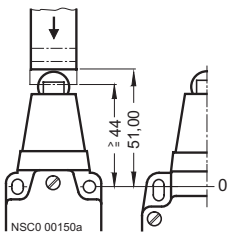
Metal enclosures, 40 mm and 56 mm

Position switches with 2 or 4 contacts

Operation by bar		Switch blocks	Nominal travel		Switch blocks	Nominal travel
⊙	Operating point acc. to EN 50041	Terminal designation acc. to EN 50013	0-line	Reference line acc. to EN 50041		
v_{max}	Max. operating speed		S	Operating travel acc. to EN 50041		
0-line	Reference line acc. to EN 50041		▬	Contact closed		
H	Travel difference		▭	Contact open		
→	Direction of operation		*	Operating point on return		
			**	Positive opening acc. to IEC 60947-5-1		

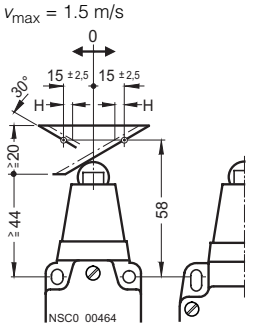
Roller plungers, type C

3SE2 100–.D,
3SE2 120–.D,
3SE2 230–.D,
3SE2 404–.D



Narrow enclosure — Wide enclosure

v_{max} = 1.5 m/s



Narrow enclosure — Wide enclosure

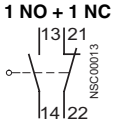
v_{max} = 1 m/s (3SE3 230–1D),
v_{max} = 0.5 m/s (3SE3 1.0–1D),

Minimum force required in direction of operation: 32 N

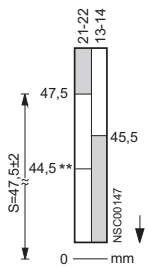
Along plunger axis — Lateral actuation — Along plunger axis

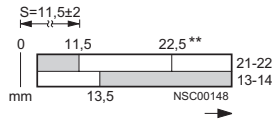
Slow-action contacts

1 NO + 1 NC

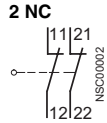


3SE3 000–0A,
3SE3 010–0A,
Ident. No.**11**

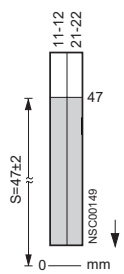




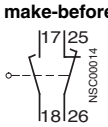
2 NC



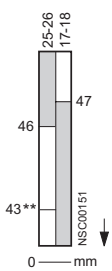
3SE3 000–6A,
Ident. No. **02**

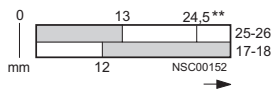


1 NO + 1 NC
with
make-before-break



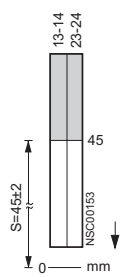
3SE3 000–3A,
3SE3 010–3A,
Ident. No. **11**





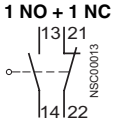
2 NO

3SE3 000–7A,
Ident. No. **20**

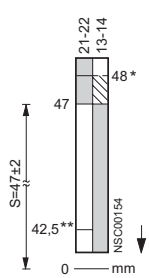


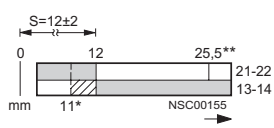
Snap-action contacts

1 NO + 1 NC

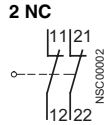


3SE3 000–1A,
3SE3 010–1A,
Ident. No. **11**

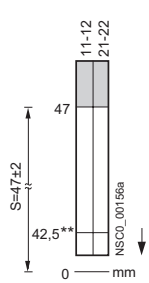




2 NC



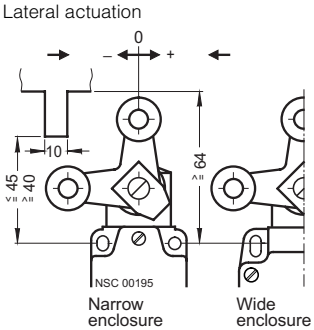
3SE3 000–1AV00,
3SE3 010–1AV00,
Ident. No. **02**



Fork levers

3SE2 100–1T,
3SE2 120–1T,
3SE2 404–1T

Lateral actuation



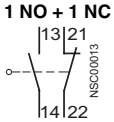
Narrow enclosure — Wide enclosure

$v_{max.}$ = 2 m/s

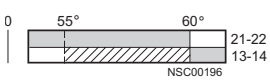
Deflection in direction of rotation

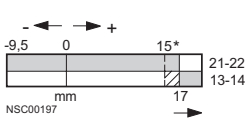
Snap-action contacts

1 NO + 1 NC

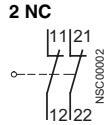


3SE3 000–1A,
3SE3 010–1A,
Ident. No. **11**





2 NC



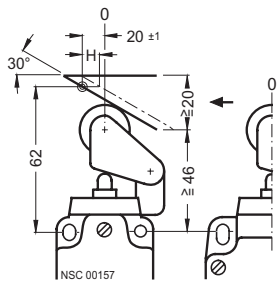
3SE3 000–1AV00,
3SE3 010–1AV00,
Ident. No. **02**

Position switches with 2 or 4 contacts

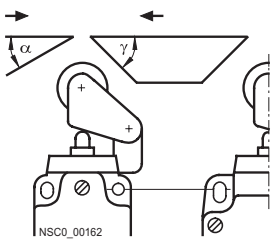
Operation by bar		Switch blocks	Nominal travel		Switch blocks	Nominal travel
⊙	Operating point acc. to EN 50041	Terminal designation acc. to EN 50013	0-line	Reference line acc. to EN 50041		
α, γ	Approach angle		S	Operating travel acc. to EN 50041		
v_{max}	Max. operating speed		▬	Contact closed		
0-line	Reference line acc. to EN 50041		▭	Contact open		
H	Travel difference		*	Operating point on return		
→	Direction of operation		**	Positive opening acc. to IEC 60947-5-1		

Roller levers

3SE2 100–.E, 3SE2 120–.E, 3SE2 230–.E, 3SE2 404–.E



v_{max} = 2.5 m/s



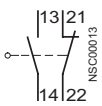
v_{max} = 1 m/s, α_{max} = 30°, γ_{max} = 45°

Minimum force required in direction of operation: 12 N

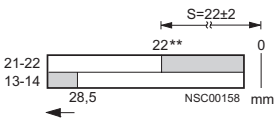
Lateral actuation

Slow-action contacts

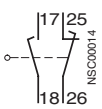
1 NO + 1 NC



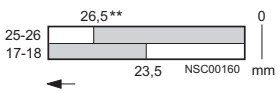
3SE3 000–0A,
3SE3 010–0A,
Ident. No.**11**



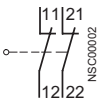
1 NO + 1 NC with make-before-break



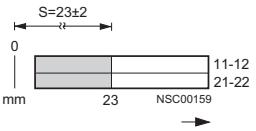
3SE3 000–3A,
3SE3 010–3A,
Ident. No. **11**



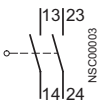
2 NC



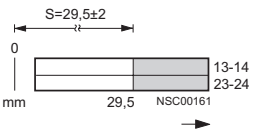
3SE3 000–6A,
Ident. No. **02**



2 NO

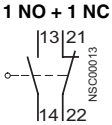


3SE3 000–7A,
Ident. No. **20**

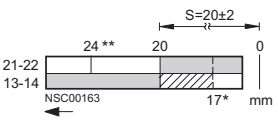


Snap-action contacts

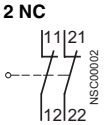
1 NO + 1 NC



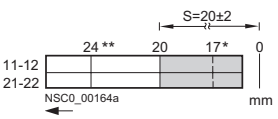
3SE3 000–1A,
3SE3 010–1A,
Ident. No. **11**



2 NC

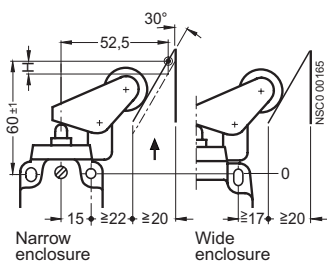


3SE3 000–1AV00,
3SE3 010–1AV00,
Ident. No. **02**

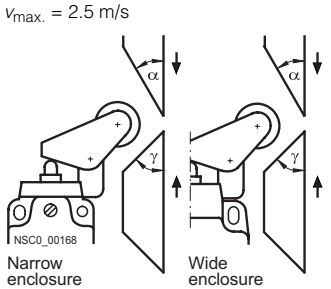


Angular roller levers

3SE2 100–.F, 3SE2 120–.F, 3SE2 230–.F, 3SE2 404–.F



$v_{max.}$ = 2.5 m/s



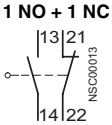
v_{max} = 1 m/s, α_{max} = 30°, γ_{max} = 45°

Minimum force required in direction of operation: 12 N

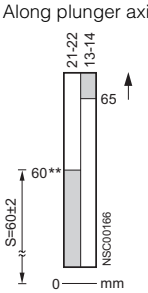
Along plunger axis

Slow-action contacts

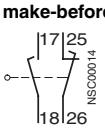
1 NO + 1 NC



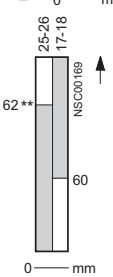
3SE3 000–0A,
3SE3 010–0A,
Ident. No.**11**



1 NO + 1 NC with make-before-break

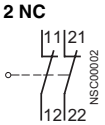


3SE3 000–3A,
3SE3 010–3A,
Ident. No. **11**

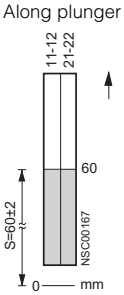


Along plunger axis

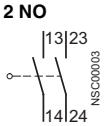
2 NC



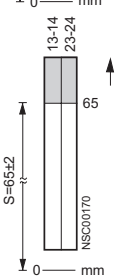
3SE3 000–6A,
Ident. No. **02**



2 NO

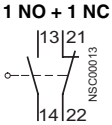


3SE3 000–7A,
Ident. No. **20**

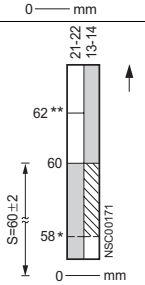


Snap-action contacts

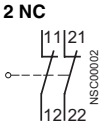
1 NO + 1 NC



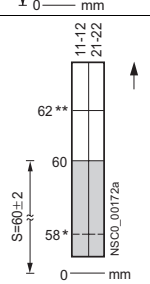
3SE3 000–1A,
3SE3 010–1A,
Ident. No. **11**



2 NC



3SE3 000–1AV00,
3SE3 010–1AV00,
Ident. No. **02**



3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

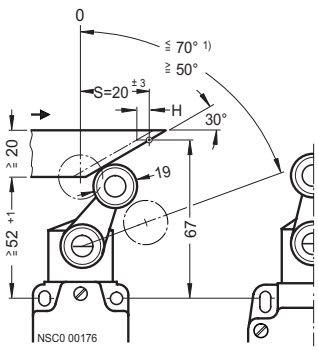
Position switches with 2 or 4 contacts

Operation by bar		Switch blocks	Nominal travel		Switch blocks	Nominal travel
⊙	Operating point acc. to EN 50041	Terminal designation acc. to EN 50013	0-line	Reference line acc. to EN 50041		
α	Approach angle		S	Operating travel acc. to EN 50041		
β	Trailing angle			Contact closed		
v_{max}	Max. operating speed			Contact open		
0-line	Reference line acc. to EN 50041		*	Operating point on return		
S	Operating travel acc. to EN 50041		**	Positive opening acc. to IEC 60947-5-1		
H	Travel difference					
→	Direction of operation					

Twist levers, type A

Repositionable and finely adjustable from 10° to 10°

3SE2 100–.GW, 3SE2 120–.GW, 3SE2 230–.GW, 3SE2 404–.GW



Narrow enclosure — Wide enclosure

v_{max} = 3 m/s

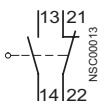
Minimum torque in direction of operation: 25 Ncm

Contact operation either from right or left or from right and left.

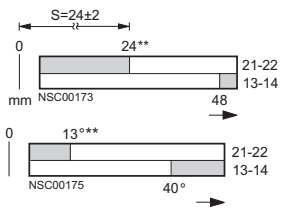
Lateral actuation

Slow-action contacts

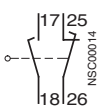
1 NO + 1 NC



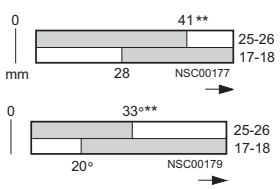
3SE3 000–0A, 3SE3 010–0A, Ident. No.**11**



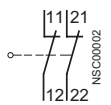
1 NO + 1 NC with make-before-break



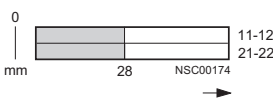
3SE3 000–3A, 3SE3 010–3A, Ident. No. **11**



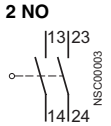
2 NC



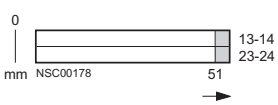
3SE3 000–6A, Ident. No. **02**



2 NO

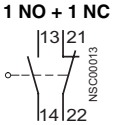


3SE3 000–7A, Ident. No. **20**

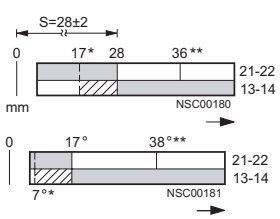


Snap-action contacts

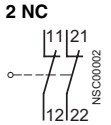
1 NO + 1 NC



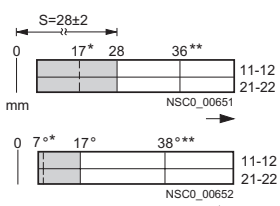
3SE3 000–1A, 3SE3 010–1A, Ident. No. **11**



2 NC



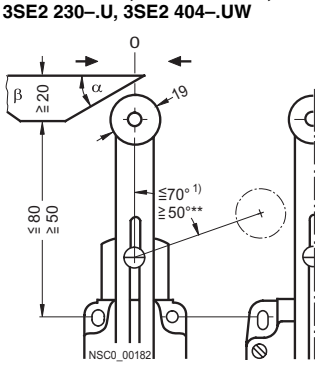
3SE3 000–1AV00, 3SE3 010–1AV00, Ident. No. **02**



Twist levers, adjustable length

Finely adjustable from 10° to 10°

3SE2 100–.UW, 3SE2 120–.UW, 3SE2 230–.U, 3SE2 404–.UW



Narrow enclosure — Wide enclosure

v_{max} = 1 m/s, α_{max} = 30°, β_{max} = 30°

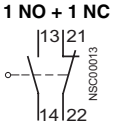
Minimum torque in direction of operation: 25 Ncm

Contact operation either from right or left or from right and left.

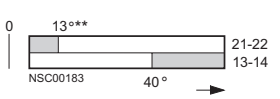
Deflection in direction of rotation

Slow-action contacts

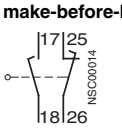
1 NO + 1 NC



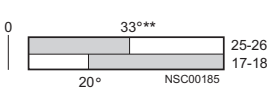
3SE3 000–0A, 3SE3 010–0A, Ident. No.**11**



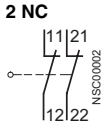
1 NO + 1 NC with make-before-break



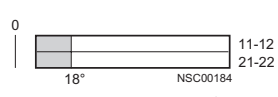
3SE3 000–3A, 3SE3 010–3A, Ident. No. **11**



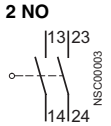
2 NC



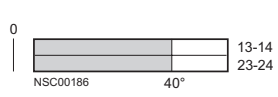
3SE3 000–6A, Ident. No. **02**



2 NO

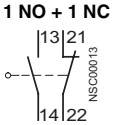


3SE3 000–7A, Ident. No. **20**

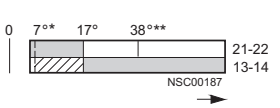


Snap-action contacts

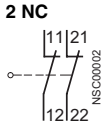
1 NO + 1 NC



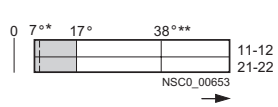
3SE3 000–1A, 3SE3 010–1A, Ident. No. **11**



2 NC



3SE3 000–1AV00, 3SE3 010–1AV00, Ident. No. **02**



1) Max. operating angle 70°.

Position switches with 2 or 4 contacts

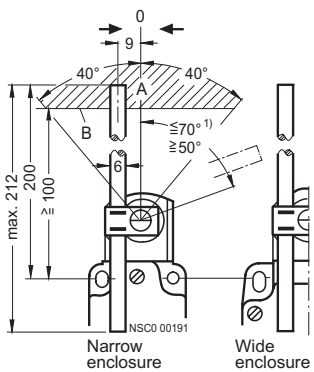
Operation by bar	Switch blocks	Nominal travel	Switch blocks	Nominal travel
⊙ Operating point acc. to EN 50041 v_{max} Max. operating speed 0-line Reference line acc. to EN 50041 → Direction of operation	Terminal designation acc. to EN 50013	0-line Reference line acc. to EN 50041 Contact closed Contact open * Operating point on return ** Positive opening acc. to IEC 60947-5-1		

Rod actuator

Finely adjustable from 10° to 10°

3SE2 100–.WW, 3SE2 120–.WW, 3SE2 230–.W, 3SE2 404–.WW

3SE2 100–.VW, 3SE2 120–.VW, 3SE2 230–.V, 3SE2 404–.VW



A = Operating range
B = Lower edge of actuator

v_{max} = 3 m/s

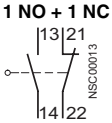
Minimum torque in direction of operation: 25 Ncm

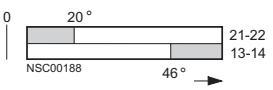
Contact operation is possible from either right or left. By twisting the plunger from the right and left.

In direction of rotation

Slow-action contacts

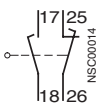
1 NO + 1 NC

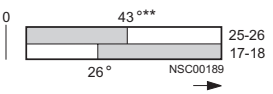




3SE3 000–0A,
3SE3 010–0A,
Ident. No.**11**

1 NO + 1 NC with make-before-break

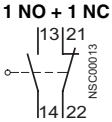


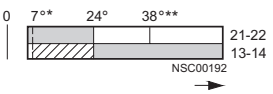


3SE3 000–3A,
3SE3 010–3A,
Ident. No. **11**

Snap-action contacts

1 NO + 1 NC

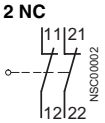


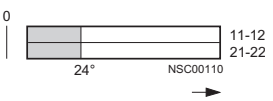


3SE3 000–1A,
3SE3 010–1A,
Ident. No. **11**

In direction of rotation

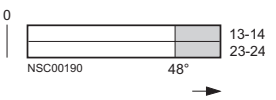
2 NC



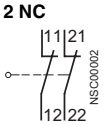


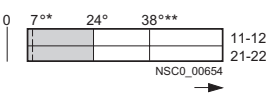
3SE3 000–6A,
Ident. No. **02**

2 NO



3SE3 000–7A,
Ident. No. **20**

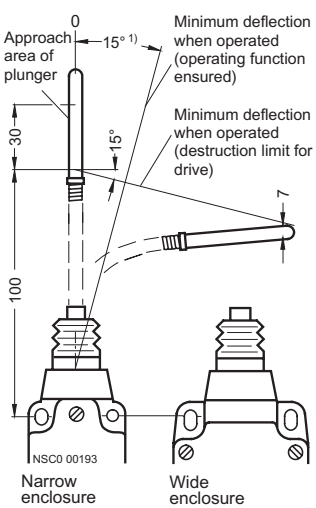




3SE3 000–1AV00,
3SE3 010–1AV00,
Ident. No. **02**

Spring rods

3SE2 100–1R, 3SE2 120–1R, 3SE2 230–.R



v_{max} = 1 m/s, approachable from all sides

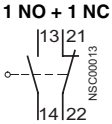
Minimum force required in direction of operation: 12 N

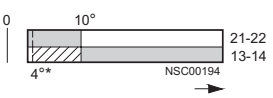
with lateral deflection at the tip: 2.5 N

Deflection of spring rod

Snap-action contacts

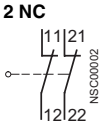
1 NO + 1 NC

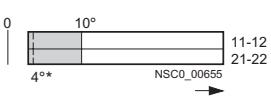




3SE3 000–1A,
3SE3 010–1A,
Ident. No. **11**

2 NC





3SE3 000–1AV00,
3SE3 010–1AV00,
Ident. No. **02**

1) Max. operating angle 70°.

3SE2, 3SE3 Position Switches

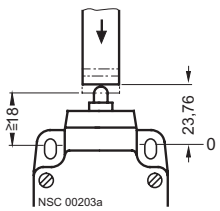
Metal enclosures, 40 mm and 56 mm

Position switches with 3 contacts

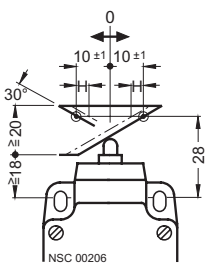
Operation by bar		Switch blocks	Nominal travel		Minimum force required in direction of operation
⊙	Operating point acc. to EN 50041	Terminal designation acc. to EN 50013	0-line	Reference line acc. to EN 50041	
v_{max}	Max. operating speed		S	Operating travel acc. to EN 50041	
0-line	Reference line acc. to EN 50041			Contact closed	
H	Travel difference			Contact open	
→	Direction of operation		*	Operating point on return	
			**	Positive opening acc. to IEC 60947-5-1	

Plungers — *Slow-action contacts* — Along plunger axis — Lateral actuation

3SE2 303–.B

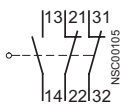


v_{max} = 1.5 m/s

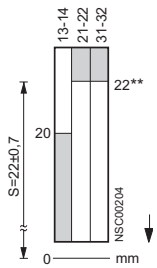


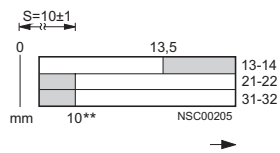
v_{max} = 0.5 m/s

1 NO + 2 NC — 16 N

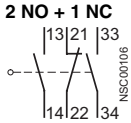


Ident. No. **12**

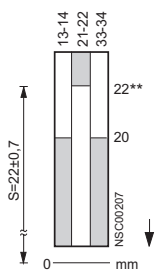


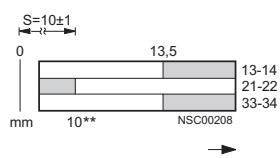


2 NO + 1 NC — 18 N

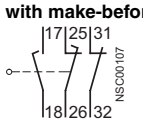


Ident. No. **21**

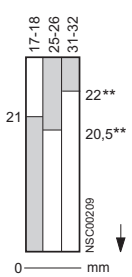


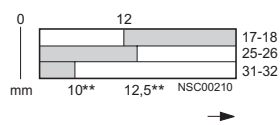


1 NO + 2 NC with make-before-break — 16 N

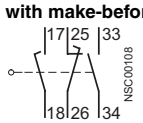


Ident. No. **12**

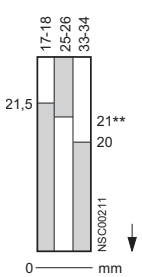


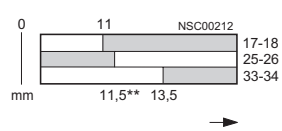


2 NO + 1 NC with make-before-break — 18 N



Ident. No. **21**



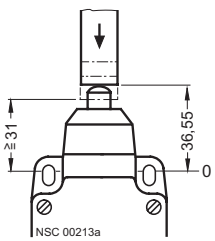


Position switches with 3 contacts

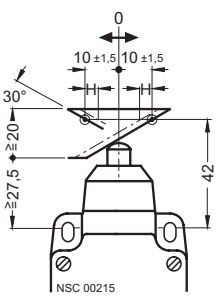
Operation by bar	Switch blocks	Nominal travel	Minimum force required in direction of operation
⊙ Operating point acc. to EN 50041 v_{max} Max. operating speed 0-line Reference line acc. to EN 50041 H Travel difference → Direction of operation	Terminal designation acc. to EN 50013	0-line Reference line acc. to EN 50041 S Operating travel acc. to EN 50041 Contact closed Contact open * Operating point on return ** Positive opening acc. to IEC 60947-5-1	

Rounded plungers

3SE2 303–.C

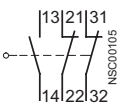
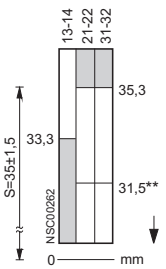
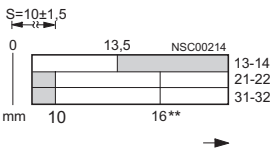
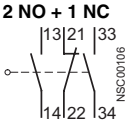
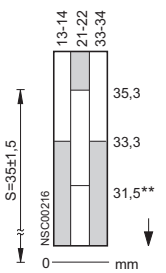
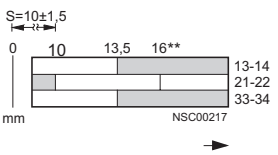
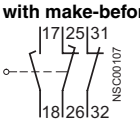
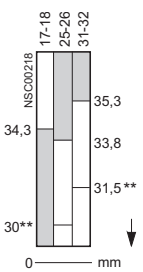
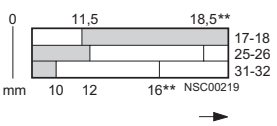
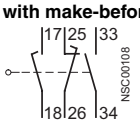
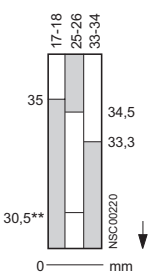
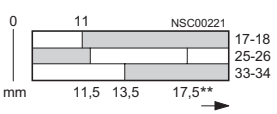


v_{max} = 1.5 m/s



v_{max} = 0.5 m/s

Slow-action contacts

	Along plunger axis	Lateral actuation	
1 NO + 2 NC  Ident. No. **12**			35 N
2 NO + 1 NC  Ident. No. **21**			37 N
1 NO + 2 NC **with make-before-break**  Ident. No. **12**			35 N
2 NO + 1 NC **with make-before-break**  Ident. No. **21**			37 N

3SE2, 3SE3 Position Switches

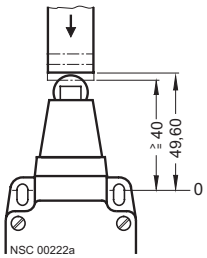
Metal enclosures, 40 mm and 56 mm

Position switches with 3 contacts

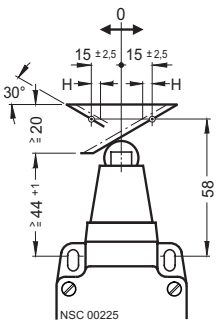
Operation by bar	Switch blocks	Nominal travel	Minimum force required in direction of operation
⊙ Operating point acc. to EN 50041 v_{max} Max. operating speed 0-line Reference line acc. to EN 50041 H Travel difference → Direction of operation	Terminal designation acc. to EN 50013	0-line Reference line acc. to EN 50041 S Operating travel acc. to EN 50041 Contact closed Contact open * Operating point on return ** Positive opening acc. to IEC 60947-5-1	

Roller plungers — *Slow-action contacts* — Along plunger axis — Lateral actuation

3SE2 303–.D

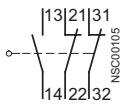


v_{max} = 1.5 m/s

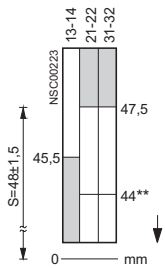


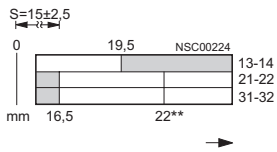
v_{max} = 1 m/s

1 NO + 2 NC — 35 N

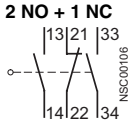


Ident. No. **12**

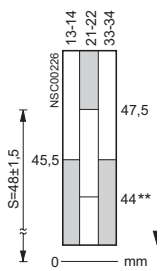


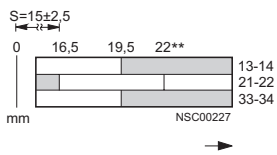


2 NO + 1 NC — 37 N

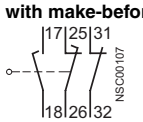


Ident. No. **21**

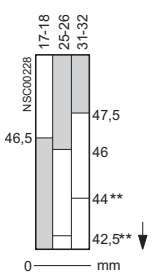


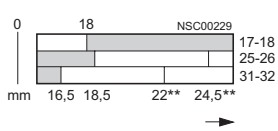


1 NO + 2 NC
with make-before-break — 35 N

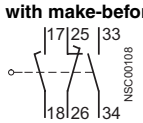


Ident. No. **12**

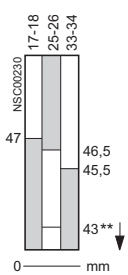


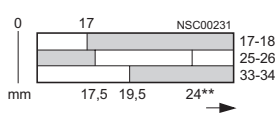


2 NO + 1 NC
with make-before-break — 37 N



Ident. No. **21**



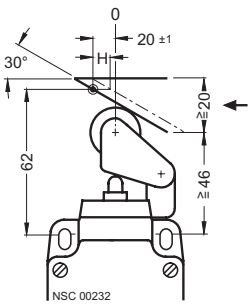


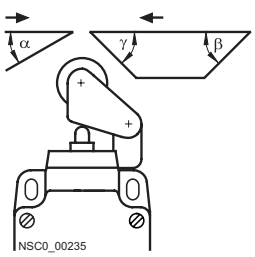
Position switches with 3 contacts

Operation by bar		Switch blocks	Nominal travel		Minimum force required in direction of operation
⊙	Operating point acc. to EN 50041	Terminal designation acc. to EN 50013	0-line	Reference line acc. to EN 50041	
α	Approach angle		S	Operating travel acc. to EN 50041	
β	Trailing angle			Contact closed	
γ	Approach angle			Contact open	
v_{max}	Max. operating speed		**	Positive opening acc. to IEC 60947-5-1	
0-line	Reference line acc. to EN 50041				
H	Travel difference				
→	Direction of operation				

Roller levers

3SE2 303–.E





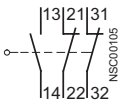
For lateral actuation:
v_{max} = 1 m/s at α_{max} = 30°
v_{max} = 2.5 m/s at γ_{max} = 45°
β_{max} = 45°

For operation along plunger axis: $v_{max.}$ = 1.5 m/s

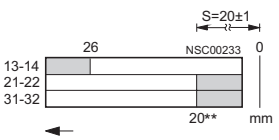
Slow-action contacts

Lateral actuation

1 NO + 2 NC

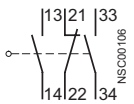


Ident. No. **12**

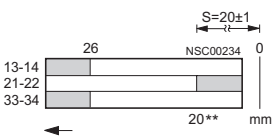


15 N

2 NO + 1 NC

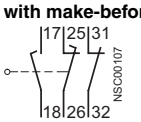


Ident. No. **21**

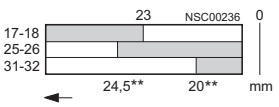


17 N

1 NO + 2 NC
with make-before-break

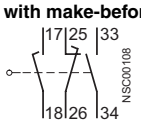


Ident. No. **12**

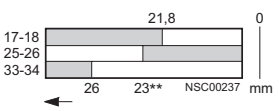


15 N

2 NO + 1 NC
with make-before-break



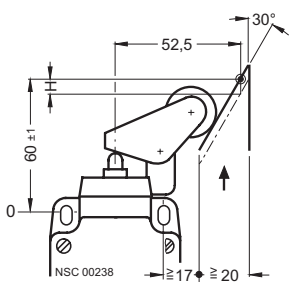
Ident. No. **21**

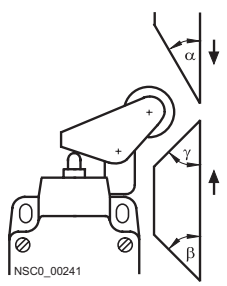


17 N

Angular roller levers

3SE2 303–.F



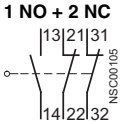


For operation along plunger axis:
v_{max} = 1 m/s at α_{max} = 30°
v_{max} = 2.5 m/s at γ_{max} = 45°
v_{max} = 2.5 m/s at β_{max} = 45°

Slow-action contacts

Along plunger axis

1 NO + 2 NC



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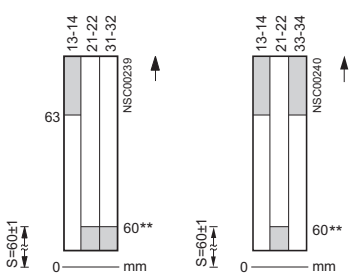
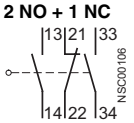


15 N

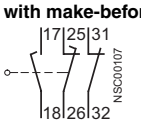
2 NO + 1 NC



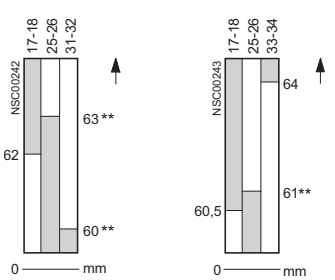
Ident. No. **21**

17 N

1 NO + 2 NC
with make-before-break

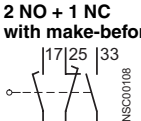


Ident. No. **12**



15 N

2 NO + 1 NC
with make-before-break



Ident. No. **21**

17 N

3SE2, 3SE3 Position Switches

Metal enclosures, 40 mm and 56 mm

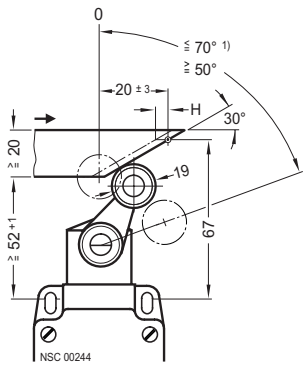
Position switches with 3 contacts

Operation by bar	Switch blocks	Nominal travel	Minimum torque in direction of rotation
⊙ Operating point acc. to EN 50041 v_{max} Max. operating speed 0-line Reference line acc. to EN 50041 H Travel difference → Direction of operation	Terminal designation acc. to EN 50013	0-line Reference line acc. to EN 50041 S Operating travel acc. to EN 50041 ■ Contact closed □ Contact open ** Positive opening acc. to IEC 60947-5-1	

Twist levers — *Slow-action contacts* — Lateral actuation

Finely adjustable from 10° to 10°

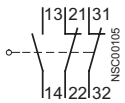
3SE2 303–.GW–Z
A31



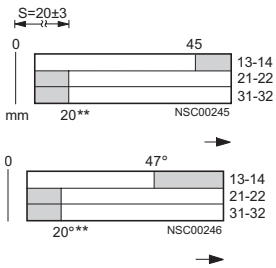
v_{max} = 3 m/s

Contact operation is possible from either right or left. By twisting the plunger from the right and left.

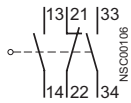
1 NO + 2 NC



Ident. No. **12**



2 NO + 1 NC



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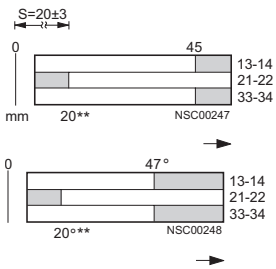
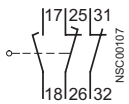
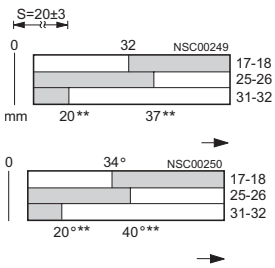


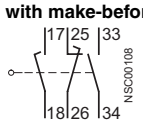
1 NO + 2 NC
with make-before-break



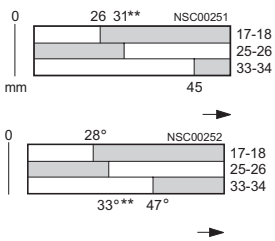
Ident. No. **12**



2 NO + 1 NC
with make-before-break



Ident. No. **21**



Minimum torque in direction of rotation: 25 Ncm

1) Max. operating angle 70°.
Max. deflection for adjustment purposes 90°.

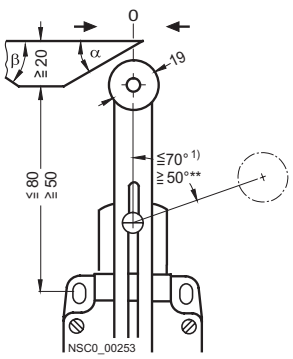
Position switches with 3 contacts

Operation by bar	Switch blocks	Nominal travel	Minimum torque in direction of rotation
⊙ Operating point acc. to EN 50041 α Approach angle β Trailing angle v_{max} Max. operating speed 0-line Reference line acc. to EN 50041 → Direction of operation	Terminal designation acc. to EN 50013	0-line Reference line acc. to EN 50041 S Operating travel acc. to EN 50041 ■ Contact closed □ Contact open ** Positive opening acc. to IEC 60947-5-1	

Twist levers, adjustable length

Finely adjustable from 10° to 10°

3SE2 303–.UW



v_{max} = 3 m/s,
α_{max} = 30°,
β_{max} = 30°

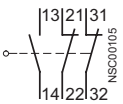
Contact operation is possible from either right or left. By twisting the plunger from the right and left.

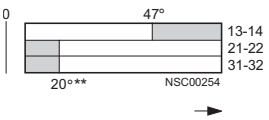
Slow-action contacts

Lateral actuation

Minimum torque in direction of rotation: 25 Ncm

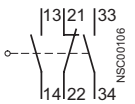
1 NO + 2 NC

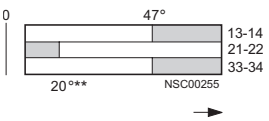




Ident. No. **12**

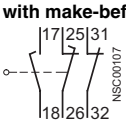
2 NO + 1 NC

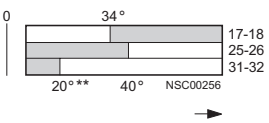




Ident. No. **21**

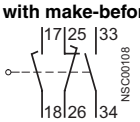
1 NO + 2 NC with make-before-break

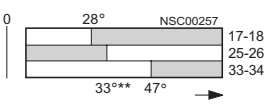




Ident. No. **12**

2 NO + 1 NC with make-before-break



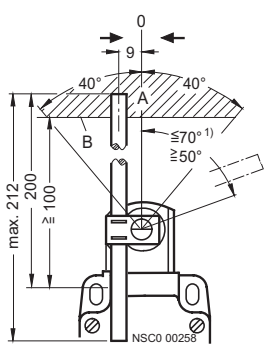


Ident. No. **21**

Rod actuator

Finely adjustable from 10° to 10°

3SE2 303–.WW,
3SE2 303–.VW



A = Operating range
B = Lower edge of actuator

v_{max} = 3 m/s

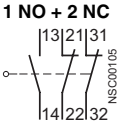
Contact operation is possible from either right or left. By twisting the plunger from the right and left.

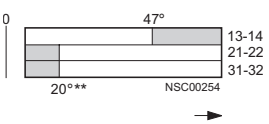
Slow-action contacts

Deflection in direction of rotation

Minimum torque in direction of rotation: 25 Ncm

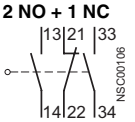
1 NO + 2 NC

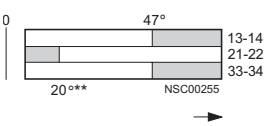




Ident. No. **12**

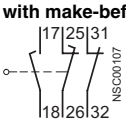
2 NO + 1 NC

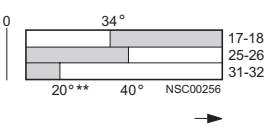




Ident. No. **21**

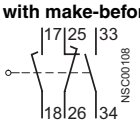
1 NO + 2 NC with make-before-break

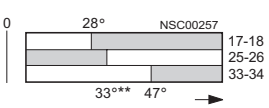




Ident. No. **12**

2 NO + 1 NC with make-before-break





Ident. No. **21**

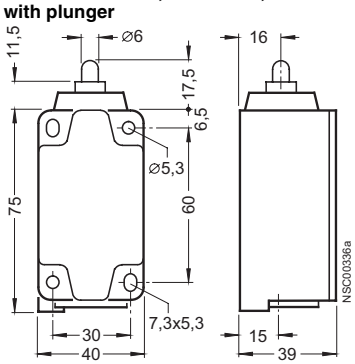
1) Max. operating angle 70°.
Max. deflection for adjustment purposes 90°.

3SE2, 3SE3 Position Switches

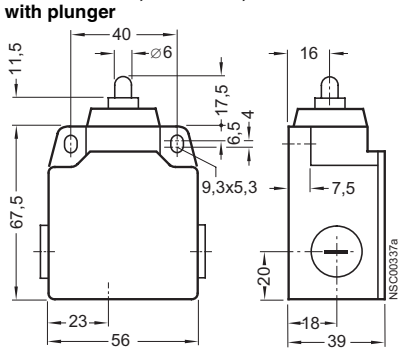
Metal enclosures, 40 mm and 56 mm

Dimensional drawings

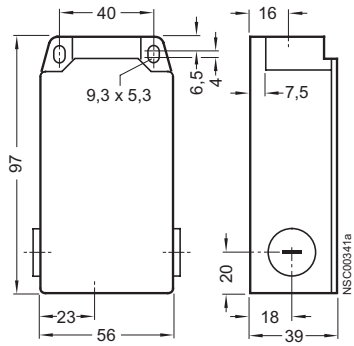
3SE2 120
narrow enclosure, 2 contacts, with plunger



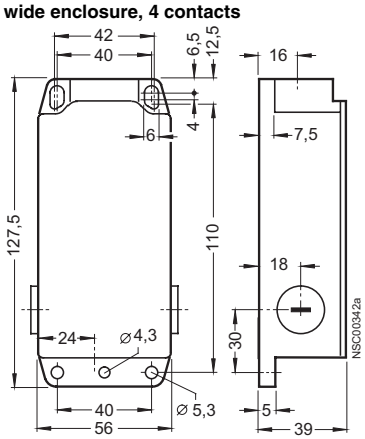
3SE2 100
wide enclosure, 2 contacts, with plunger



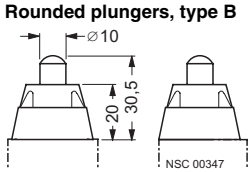
3SE2 303
wide enclosure, 3 contacts



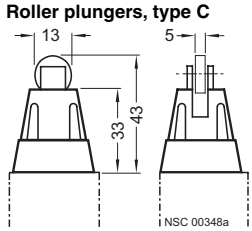
3SE2 404
wide enclosure, 4 contacts



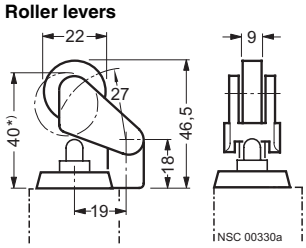
Rounded plungers, type B



Roller plungers, type C

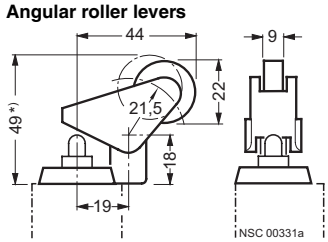


Roller levers



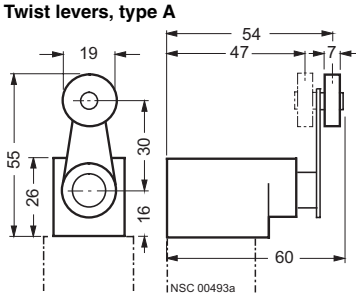
* Lever in final position

Angular roller levers

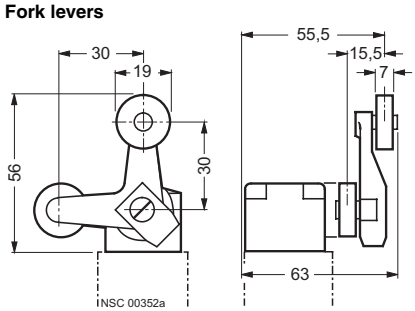


* Lever in final position

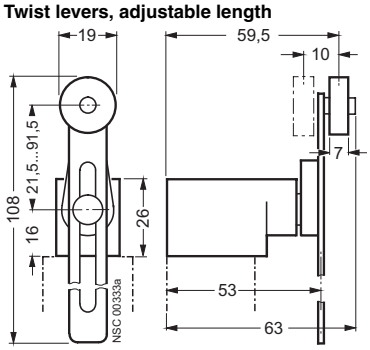
Twist levers, type A



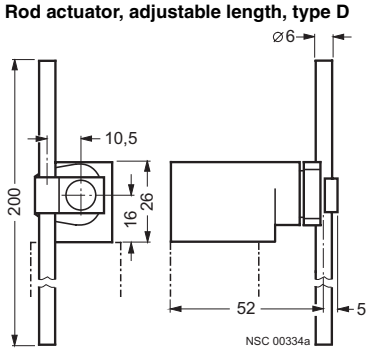
Fork levers



Twist levers, adjustable length



Rod actuator, adjustable length, type D



Spring rods