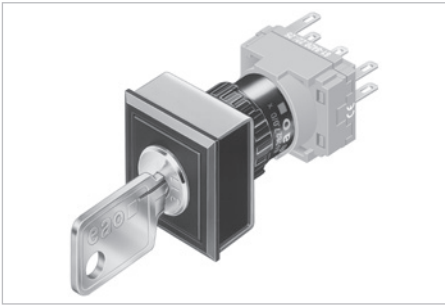
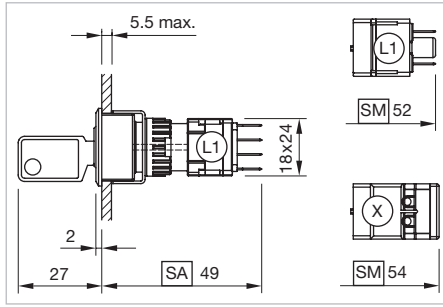


61 Flush design

Keylock switch 2 positions square, IP 65



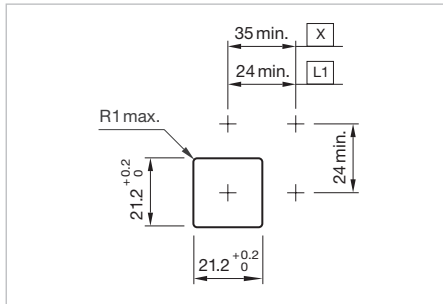
Product can differ from the current configuration.



Dimensions [mm]
L1 = Solder terminal 2.8 x 0.5 mm,
SA = Snap-action switching element,
SM = Slow-make switching element,
X = Screw terminal

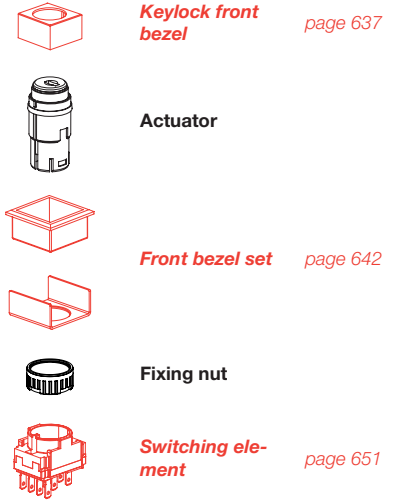
Additional Information

- For front dimension 24 x 24 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request



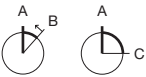
Mounting cut-outs [mm]
L1 = Solder terminal 2.8 x 0.5 mm,
X = Screw terminal

Equipment consisting of (schematic overview)




Each Part Number listed below includes all the black components shown in the 3D-drawing.

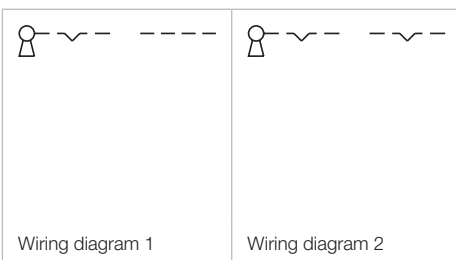
To obtain a complete unit, please select the red components from the pages shown.



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 2 positions square					
A - B	B = 42°	A	61-2101.0/D	1	0.065 kg
A - C	C = 90°	A	61-2201.0/D	2	0.065 kg
		C	61-2203.0/D	2	0.065 kg
		A + C	61-2205.0/D	2	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain

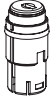


Keylock switch 2 positions rectangular, IP 65

Equipment consisting of (schematic overview)



Keylock front bezel *page 637*



Actuator



Front bezel set *page 642*



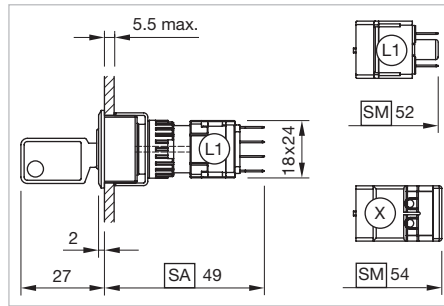
Fixing nut



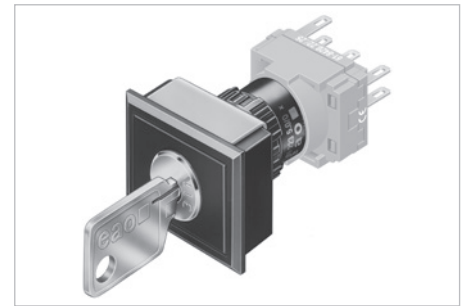
Switching element *page 651*

Each Part Number listed below includes all the black components shown in the 3D-drawing.

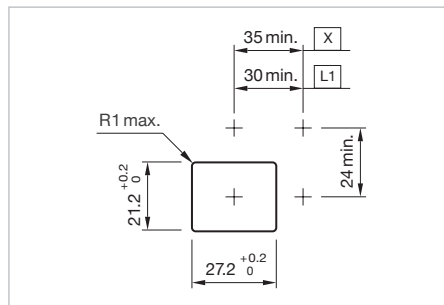
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal



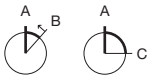
Product can differ from the current configuration.




Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal

Additional Information

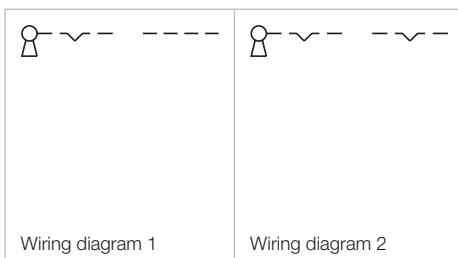
- For front dimension 24 x 30 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request



Switching positions (A = Rest, B = Momentary, C = Maintained)

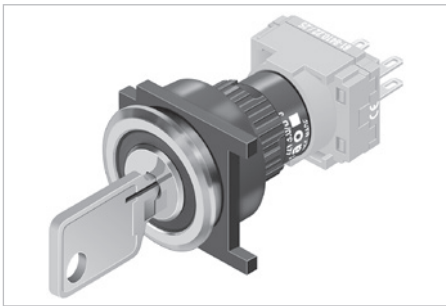
Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 2 positions rectangular					
A - B	B = 42°	A	61-2101.0/D	1	0.065 kg
A - C	C = 90°	A	61-2201.0/D	2	0.065 kg
		C	61-2203.0/D	2	0.065 kg
		A + C	61-2205.0/D	2	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain

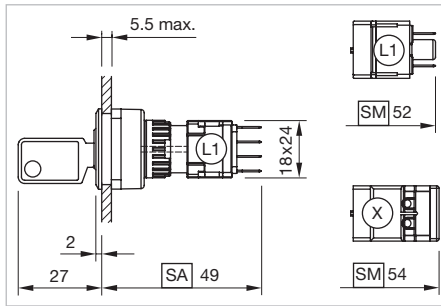


61 Flush design

Keylock switch actuator 2 positions round, IP 65



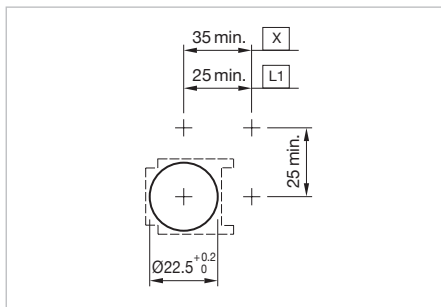
Product can differ from the current configuration.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal


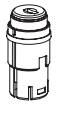





Additional Information

- For front dimension 24 x 24 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request



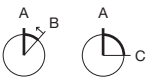
Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal

Equipment consisting of (schematic overview)


-  **Keylock front bezel** page 637
-  **Actuator**
-  **Front bezel set** page 642
-  **Anti-twist ring**
-  **Part of front bezel set**
-  **Fixing nut**
-  **Switching element** page 651

Each Part Number listed below includes all the black components shown in the 3D-drawing.

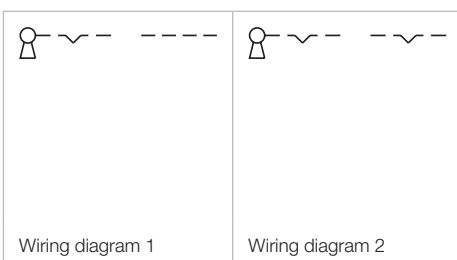
To obtain a complete unit, please select the red components from the page s shown.



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 2 positions round					
A - B	B = 42°	A	61-2101.0/D	1	0.065 kg
A - C	C = 90°	A	61-2201.0/D	2	0.065 kg
		C	61-2203.0/D	2	0.065 kg
		A + C	61-2205.0/D	2	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain

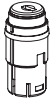


Keylock switch 3 positions square, IP 65

Equipment consisting of (schematic overview)



Keylock front bezel *page 637*



Actuator



Front bezel set *page 642*



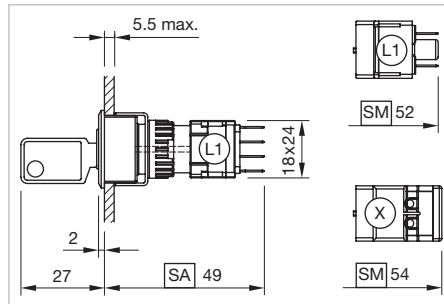
Fixing nut



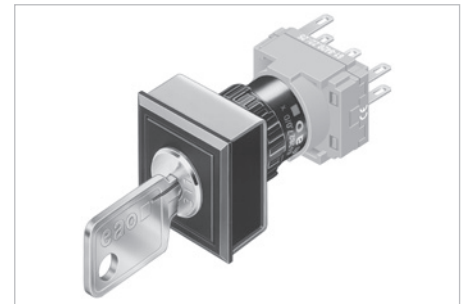
Switching element *page 653*

Each Part Number listed below includes all the black components shown in the 3D-drawing.

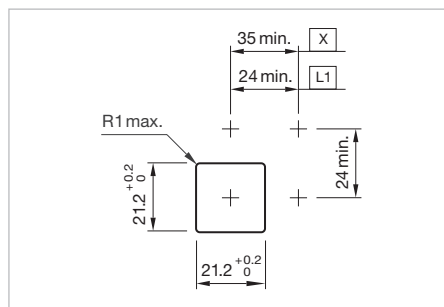
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal



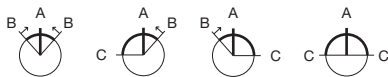
Product can differ from the current configuration.




Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal

Additional Information

- For front dimension 24 x 24 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request

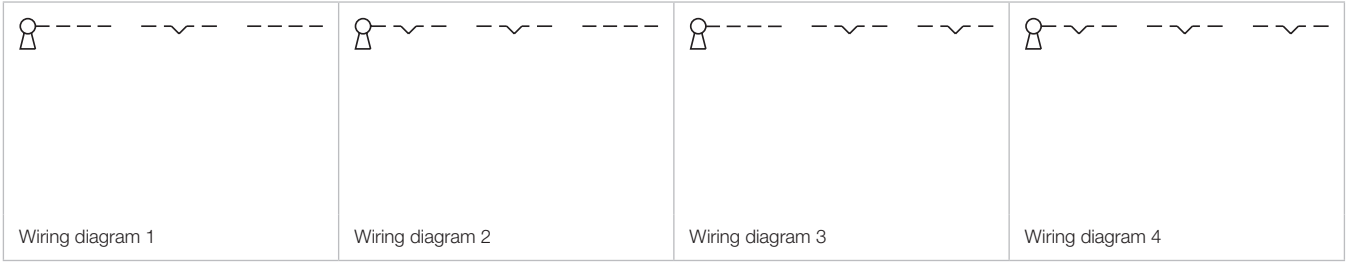


Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 3 positions square					
B - A - B	B = 42° / 42°	A	61-2501.0/D	1	0.065 kg
C - A - B	C = 90°, B = 42°	A	61-2801.0/D	2	0.065 kg
		C	61-2802.0/D	2	0.065 kg
		C + A	61-2804.0/D	2	0.065 kg
B - A - C	B = 42°, C = 90°	A	61-2701.0/D	3	0.065 kg
		A + C	61-2705.0/D	3	0.065 kg
C - A - C	C = 90° / 90°	A	61-2601.0/D	4	0.065 kg
		C - -	61-2602.0/D	4	0.065 kg
		- - C	61-2603.0/D	4	0.065 kg
		C + A	61-2604.0/D	4	0.065 kg
		A + C	61-2605.0/D	4	0.065 kg
		C + C	61-2606.0/D	4	0.065 kg
		C + A + C	61-2607.0/D	4	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain

61 Flush design

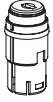


Keylock switch 3 positions rectangular, IP 65

Equipment consisting of (schematic overview)



Keylock front bezel *page 637*



Actuator



Front bezel set *page 642*



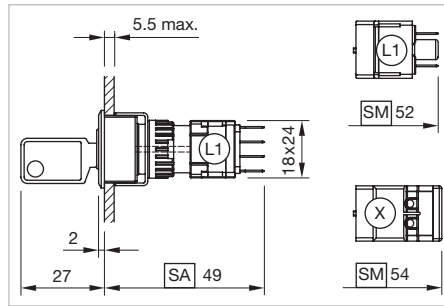
Fixing nut



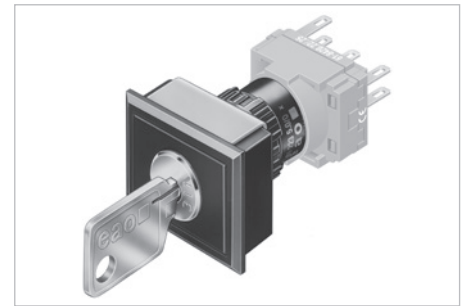
Switching element *page 653*

Each Part Number listed below includes all the black components shown in the 3D-drawing.

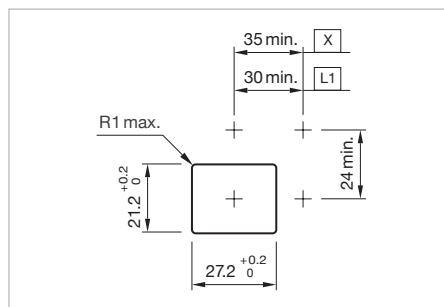
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
L1 = Solder terminal 2.8 x 0.5 mm,
SA = Snap-action switching element,
SM = Slow-make switching element,
X = Screw terminal



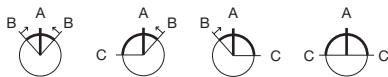
Product can differ from the current configuration.




Mounting cut-outs [mm]
L1 = Solder terminal 2.8 x 0.5 mm,
X = Screw terminal

Additional Information

- For front dimension 24 x 30 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request

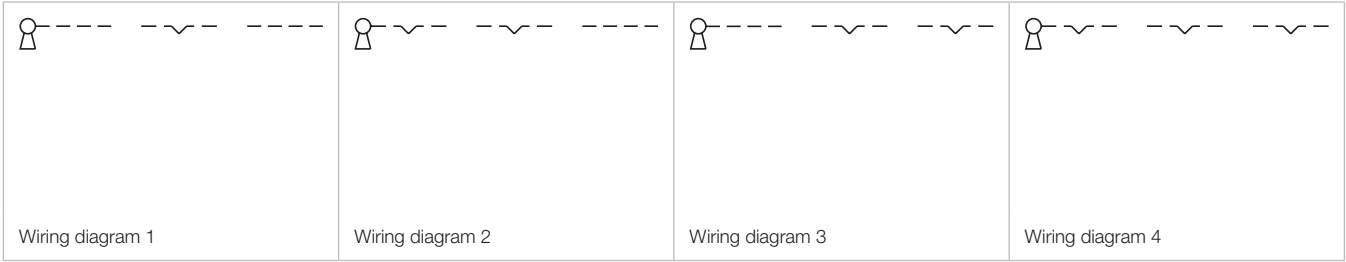


Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 3 positions rectangular					
B - A - B	B = 42° / 42°	A	61-2501.0/D	1	0.065 kg
C - A - B	C = 90°, B = 42°	A	61-2801.0/D	2	0.065 kg
		C	61-2802.0/D	2	0.065 kg
		C + A	61-2804.0/D	2	0.065 kg
		A + C	61-2701.0/D	3	0.065 kg
B - A - C	B = 42°, C = 90°	A + C	61-2705.0/D	3	0.065 kg
C - A - C	C = 90° / 90°	A	61-2601.0/D	4	0.065 kg
		C - -	61-2602.0/D	4	0.065 kg
		- - C	61-2603.0/D	4	0.065 kg
		C + A	61-2604.0/D	4	0.065 kg
		A + C	61-2605.0/D	4	0.065 kg
		C + C	61-2606.0/D	4	0.065 kg
		C + A + C	61-2607.0/D	4	0.065 kg


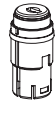





Switching action: A = Rest, B = Momentary, C = Maintain

61 Flush design



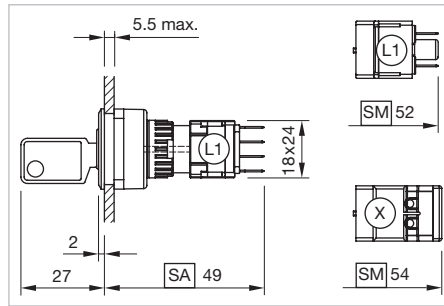
Keylock switch 3 positions round, IP 65

Equipment consisting of (schematic overview)

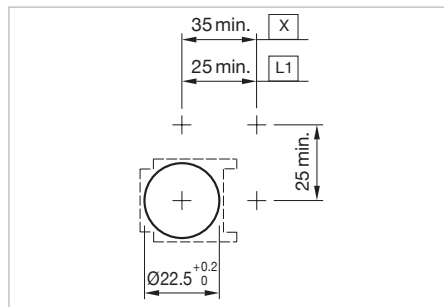
-  **Keylock front bezel** page 642
-  **Actuator**
-  **Front bezel set** page 642
-  **Anti-twist ring**
-  **Part of front bezel set**
-  **Fixing nut**
-  **Switching element** page 653

Each Part Number listed below includes all the black components shown in the 3D-drawing.

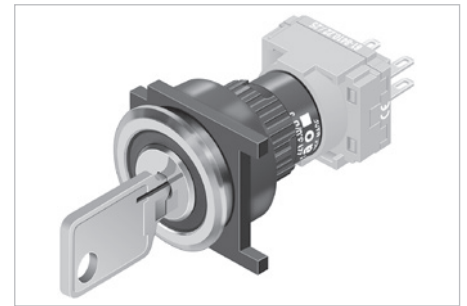
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal



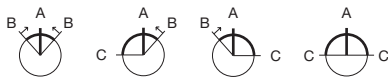
Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal




Product can differ from the current configuration.

Additional Information

- For front dimension Ø 25 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request

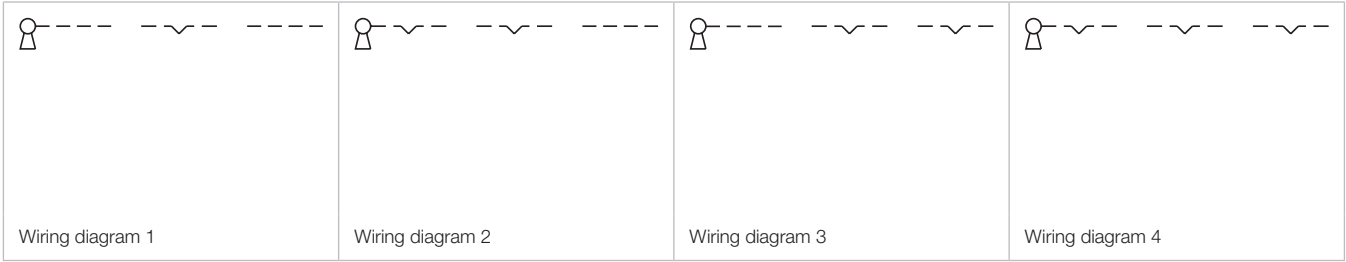


Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 3 positions round					
B - A - B	B = 42° / 42°	A	61-2501.0/D	1	0.065 kg
C - A - B	C = 90°, B = 42°	A	61-2801.0/D	2	0.065 kg
		C	61-2802.0/D	2	0.065 kg
		C + A	61-2804.0/D	2	0.065 kg
B - A - C	B = 42°, C = 90°	A	61-2701.0/D	3	0.065 kg
		A + C	61-2705.0/D	3	0.065 kg
C - A - C	C = 90° / 90°	A	61-2601.0/D	4	0.065 kg
		C - -	61-2602.0/D	4	0.065 kg
		- - C	61-2603.0/D	4	0.065 kg
		C + A	61-2604.0/D	4	0.065 kg
		A + C	61-2605.0/D	4	0.065 kg
		C + C	61-2606.0/D	4	0.065 kg
		C + A + C	61-2607.0/D	4	0.065 kg

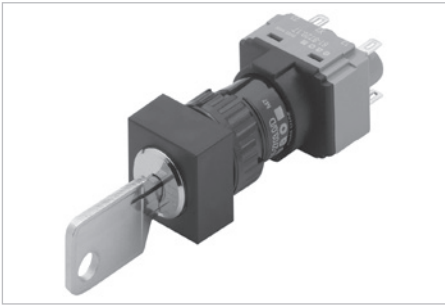
Switching action: A = Rest, B = Momentary, C = Maintain

61 Flush design

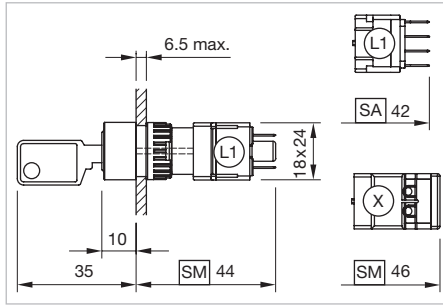


61 Raised design

Keylock switch 2 positions square, IP 65



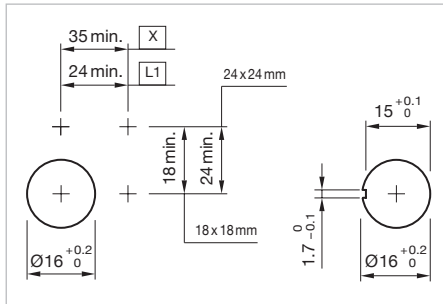
Product can differ from the current configuration.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal

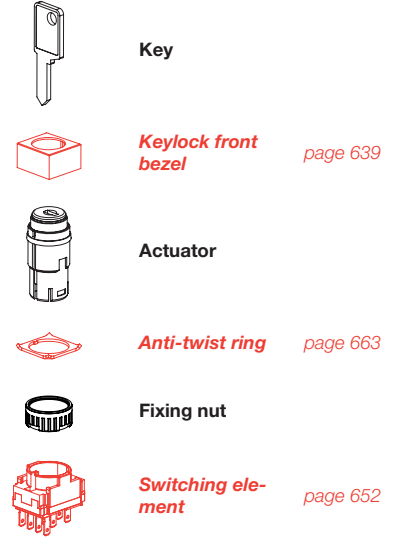
Additional Information

- For front dimensions 24 x 24 mm, 18 x 18 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device



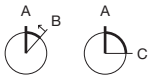
Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal

Equipment consisting of (schematic overview)




Each Part Number listed below includes all the black components shown in the 3D-drawing.

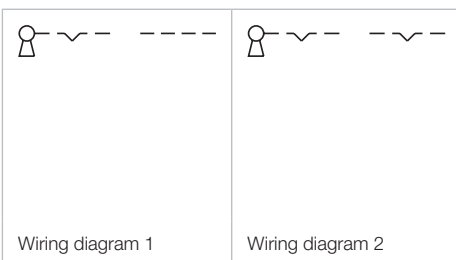
To obtain a complete unit, please select the red components from the pages shown.



Switching positions (A = Rest, B = Momentary, C = Maintained)

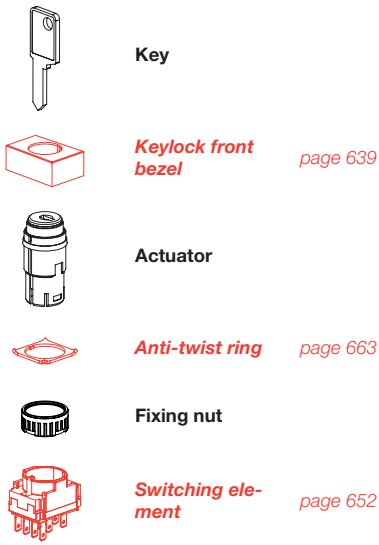
Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 2 positions square					
A - B	B = 42°	A	61-2101.0/D	1	0.065 kg
A - C	C = 90°	A	61-2201.0/D	2	0.065 kg
		C	61-2203.0/D	2	0.065 kg
		A + C	61-2205.0/D	2	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain



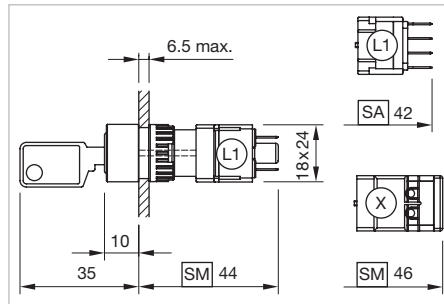
Keylock switch 2 positions rectangular, IP 65

Equipment consisting of (schematic overview)

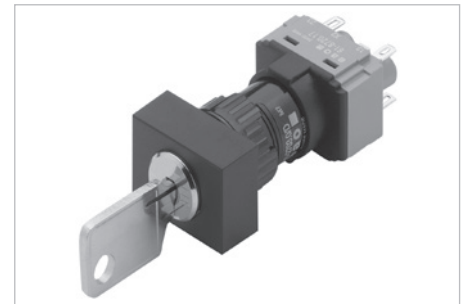


Each Part Number listed below includes all the black components shown in the 3D-drawing.

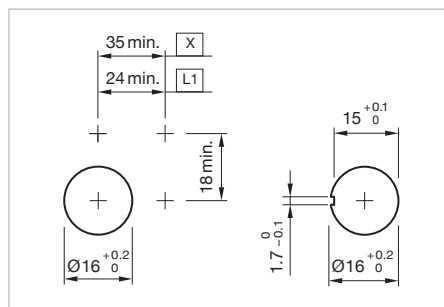
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal



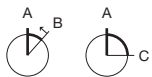
Product can differ from the current configuration.




Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal

Additional Information

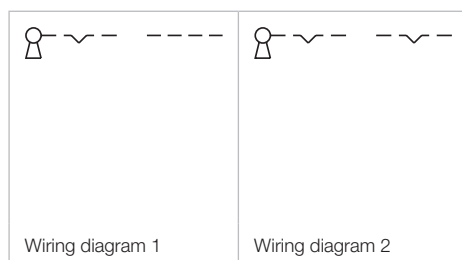
- For front dimension 18 x 24 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device



Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 2 positions rectangular					
A - B	B = 42°	A	61-2101.0/D	1	0.065 kg
A - C	C = 90°	A	61-2201.0/D	2	0.065 kg
		C	61-2203.0/D	2	0.065 kg
		A + C	61-2205.0/D	2	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain

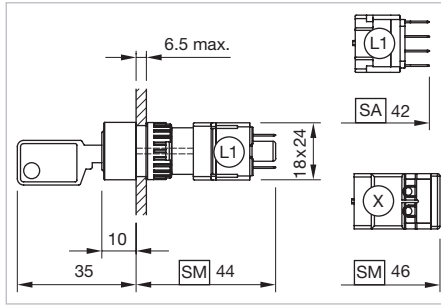


61 Raised design

Keylock switch actuator 2 positions round, IP 65



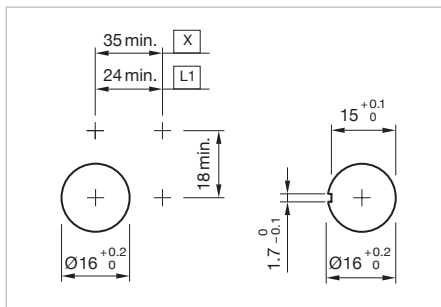
Product can differ from the current configuration.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal

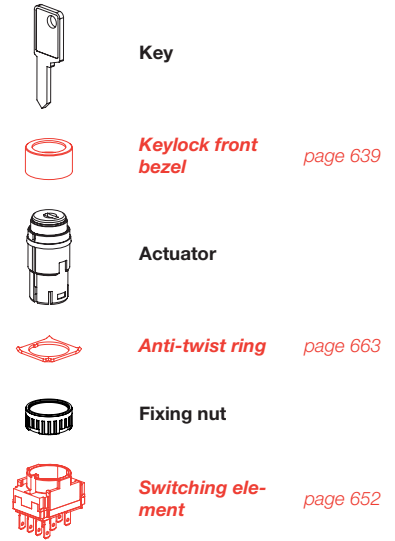
Additional Information

- For front dimension \varnothing 18 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device



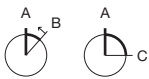
Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal

Equipment consisting of (schematic overview)




Each Part Number listed below includes all the black components shown in the 3D-drawing.

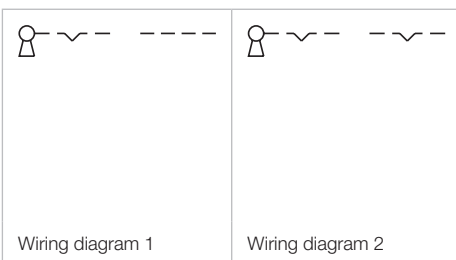
To obtain a complete unit, please select the red components from the pages shown.



Switching positions (A = Rest, B = Momentary, C = Maintained)

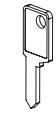
Switching action	Switching positions	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 2 positions round						
A - B	A = Rest, C = Momentary	B = 42°	A	61-2101.0/D	1	0.065 kg
A - C	A = Rest, C = Maintain	C = 90°	A	61-2201.0/D	2	0.065 kg
			C	61-2203.0/D	2	0.065 kg
			A + C	61-2205.0/D	2	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain



Keylock switch 3 positions square, IP 65

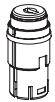
Equipment consisting of (schematic overview)



Key



Keylock front bezel *page 639*



Actuator



Anti-twist ring *page 663*



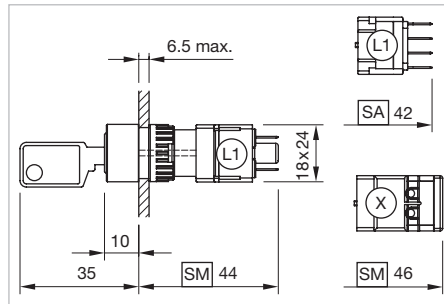
Fixing nut



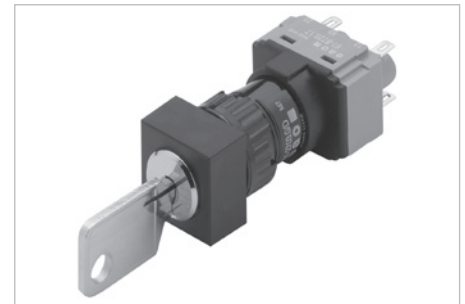
Switching element *page 654*

Each Part Number listed below includes all the black components shown in the 3D-drawing.

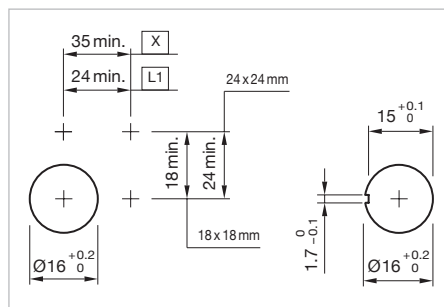
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
L1 = Solder terminal 2.8 x 0.5 mm,
SA = Snap-action switching element,
SM = Slow-make switching element,
X = Screw terminal



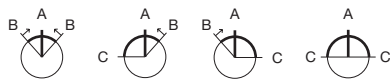
Product can differ from the current configuration.




Mounting cut-outs [mm]
L1 = Solder terminal 2.8 x 0.5 mm,
X = Screw terminal

Additional Information

- For front dimensions 24 x 24 mm, 18 x 18 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device

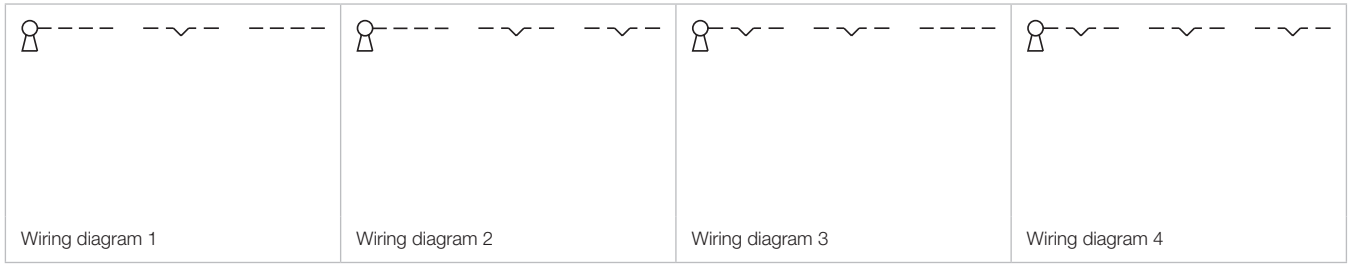


Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 3 positions square					
B - A - B	B = 42° / 42°	A	61-2501.0/D	1	0.065 kg
C - A - B	B = 42°, C = 90°	A	61-2801.0/D	2	0.065 kg
		C	61-2802.0/D	2	0.065 kg
		C + A	61-2804.0/D	2	0.065 kg
B - A - C	C = 90°, B = 42°	A	61-2701.0/D	3	0.065 kg
		A + C	61-2705.0/D	3	0.065 kg
C - A - C	C = 90° / 90°	A	61-2601.0/D	4	0.065 kg
		C - -	61-2602.0/D	4	0.065 kg
		- - C	61-2603.0/D	4	0.065 kg
		C + A	61-2604.0/D	4	0.065 kg
		A + C	61-2605.0/D	4	0.065 kg
		C + C	61-2606.0/D	4	0.065 kg
		C + A + C	61-2607.0/D	4	0.065 kg

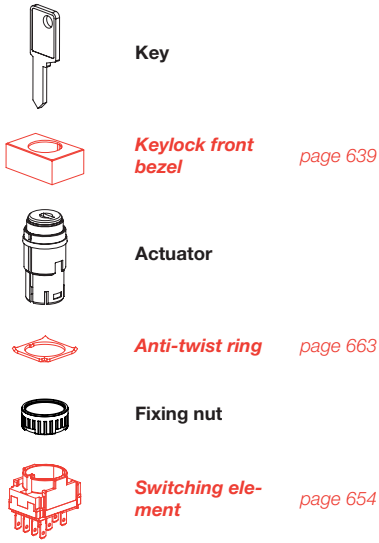
Switching action: A = Rest, B = Momentary, C = Maintain

61 Raised design



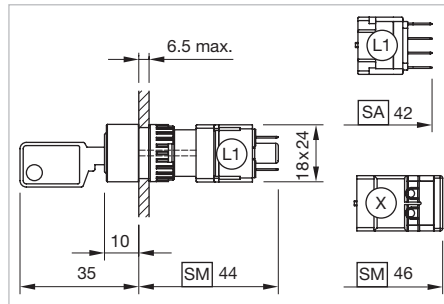
Keylock switch 3 positions rectangular, IP 65

Equipment consisting of (schematic overview)

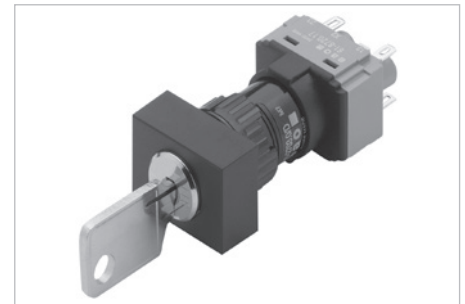


Each Part Number listed below includes all the black components shown in the 3D-drawing.

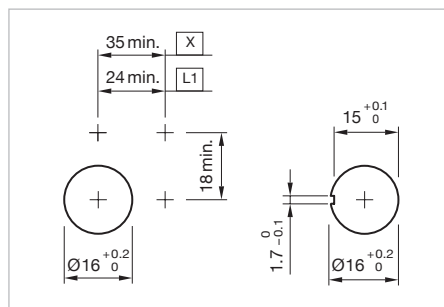
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal



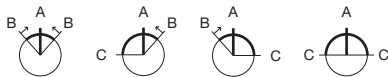
Product can differ from the current configuration.




Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal

Additional Information

- For front dimension 18 x 24 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device

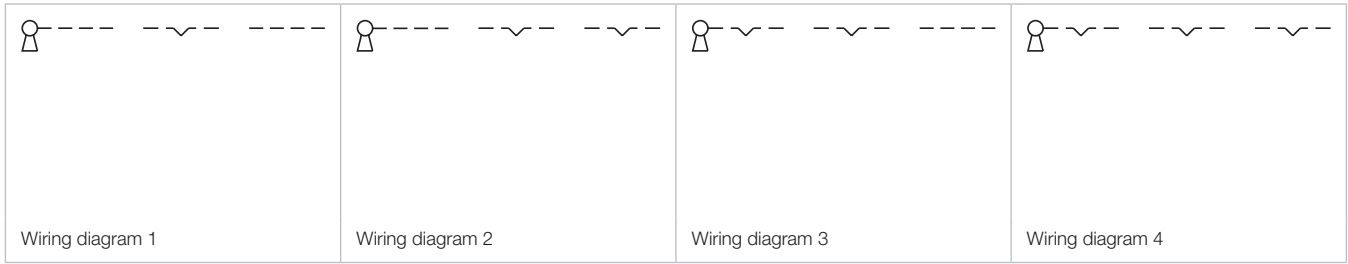


Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 3 positions rectangular					
B - A - B	B = 42° / 42°	A	61-2501.0/D	1	0.065 kg
C - A - B	B = 42°, C = 90°	A	61-2801.0/D	2	0.065 kg
		C	61-2802.0/D	2	0.065 kg
		C + A	61-2804.0/D	2	0.065 kg
B - A - C	C = 90°, B = 42°	A	61-2701.0/D	3	0.065 kg
		A + C	61-2705.0/D	3	0.065 kg
C - A - C	C = 90° / 90°	A	61-2601.0/D	4	0.065 kg
		C - -	61-2602.0/D	4	0.065 kg
		- - C	61-2603.0/D	4	0.065 kg
		C + A	61-2604.0/D	4	0.065 kg
		A + C	61-2605.0/D	4	0.065 kg
		C + C	61-2606.0/D	4	0.065 kg
		C + A + C	61-2607.0/D	4	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain

61 Raised design



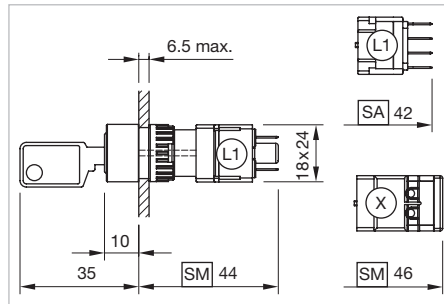
Keylock switch 3 positions round, IP 65

Equipment consisting of (schematic overview)



Each Part Number listed below includes all the black components shown in the 3D-drawing.

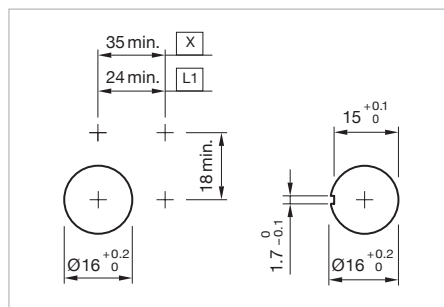
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 SA = Snap-action switching element,
 SM = Slow-make switching element,
 X = Screw terminal



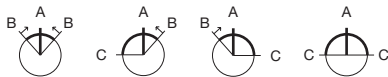
Product can differ from the current configuration.




Mounting cut-outs [mm]
 L1 = Solder terminal 2.8 x 0.5 mm,
 X = Screw terminal

Additional Information

- For front dimension \varnothing 18 mm
- The standard lock: DOM 311
- Two keys are supplied with each key lock switch
- Optional lock numbers on request
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device

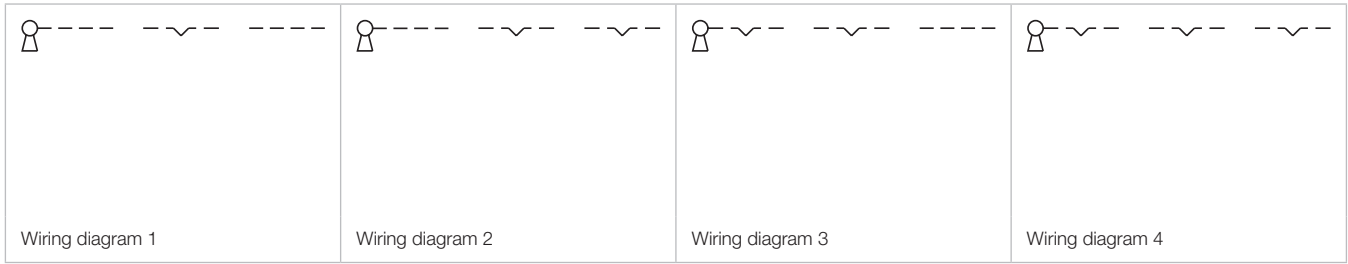


Switching positions (A = Rest, B = Momentary, C = Maintained)

Switching action	Switching angle	Key remove	Part No.	Wiring diagram	Weight
 Keylock switch actuator 3 positions round					
B - A - B	B = 42° / 42°	A	61-2501.0/D	1	0.065 kg
C - A - B	B = 42°, C = 90°	A	61-2801.0/D	2	0.065 kg
		C	61-2802.0/D	2	0.065 kg
		C + A	61-2804.0/D	2	0.065 kg
B - A - C	C = 90°, B = 42°	A	61-2701.0/D	3	0.065 kg
		A + C	61-2705.0/D	3	0.065 kg
C - A - C	C = 90° / 90°	A	61-2601.0/D	4	0.065 kg
		C - -	61-2602.0/D	4	0.065 kg
		- - C	61-2603.0/D	4	0.065 kg
		C + A	61-2604.0/D	4	0.065 kg
		A + C	61-2605.0/D	4	0.065 kg
		C + C	61-2606.0/D	4	0.065 kg
		C + A + C	61-2607.0/D	4	0.065 kg

Switching action: A = Rest, B = Momentary, C = Maintain

61 Raised design




61 Accessories

Mushroom-head cap

Additional Information


- Non-illuminative

Mushroom-head cap	Part No.	Weight
 <p>Mushroom-head cap, Front dimension Ø 32 mm</p>		
Plastic black	61-9593.0	0.004 kg
Plastic red	61-9593.2	0.004 kg
Plastic yellow	61-9593.4	0.004 kg
Plastic green	61-9593.5	0.004 kg




Marking plate

Additional Information

- Can be hot stamped
- Only applicable with lens round Part No. 61-9642.X

Marking plate	Part No.	Weight
 <p>Legend plate for lens plastic</p>		
Plastic colourless transparent	61-9707.7	0.001 kg




Keylock front bezel flush design

Product attribute	Dimension	Material	Colour	Part No.	Weight
 <p>Keylock front bezel for keylock switch, flush design</p>					
for device with front dimension 24 x 24 mm	18 x 18 mm	Plastic	black	61-9220.0	0.001 kg
 <p>Keylock front bezel for keylock switch, flush design</p>					
for device with front dimension 24 x 30 mm	18 x 24 mm	Plastic	black	61-9230.0	0.001 kg
 <p>Keylock front bezel for keylock switch, flush design</p>					
fro device with front dimension Ø 25 mm	Ø 18 mm	Plastic	black	61-9210.0	0.001 kg

Front bezel set keylock switch

Additional Information

- The dimensions of the mounting cut-outs are shown in the product details
- For the round front bezel sets the anti-twist ring is part of the sales-package
- The colour of anodized aluminium parts can vary due to technical production reasons


Mounting cut-out	Front bezel	Part No.	Weight	
 <p>Front bezel set for keylock switch, flush design, Front dimension 24 x 24 mm</p>				
	21 x 21 mm	Plastic black	61-9930.0	0.008 kg
		Plastic silver	61-9930.4	0.008 kg
 <p>Front bezel set for keylock switch, flush design, Front dimension 24 x 30 mm</p>				
	21 x 27 mm	Plastic black	61-9931.0	0.008 kg
		Plastic silver	61-9931.4	0.008 kg
 <p>Front bezel set for keylock switch, flush design, Front dimension Ø 25 mm</p>				
	Ø 22.5 mm	Aluminium natural anodized	61-9932.0	0.006 kg
		Aluminium black anodized	61-9932.1	0.006 kg
		Aluminium red anodized	61-9932.2	0.006 kg
		Aluminium gold anodized	61-9932.4	0.006 kg
		Aluminium olive-green anodized	61-9932.5	0.006 kg
		Aluminium blue anodized	61-9932.6	0.006 kg
	Plastic black	61-9932.10	0.008 kg	

61 Accessories

Flasher element

Additional Information

- Only for Indicator actuator (without indicator complete)
- Further information see «Technical data»


Operating voltage	Terminal	Part No.	Component layout	Weight
 <p>Flasher element</p>				
12 ... 28 ±10 % VAC/DC	Solder	61-8000.05	6	0.005 kg

The component layouts you will find from page 666

Switching element 2 positions

Additional Information

- We offer a dismantling tool Part No. 61-9711.0 for dismantling of the switching element


Product attribute	Diode 1N4007	Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Component layout	Wiring diagram	Weight	
 <p>Switching element for pushbutton and keylock- and selector switch 2 positions</p>												
with lamp terminal	2	250 VAC	5 A	Snap-action switching element	1 NO	Silver	Solder 2.8 x 0.5 mm	61-8212.12	7	1	0.007 kg	
						Gold	Solder 2.8 x 0.5 mm	61-8212.22	7	1	0.007 kg	
			250 VAC	5 A	Snap-action switching element	1 NO	Silver	Solder 2.8 x 0.5 mm	61-8410.12	11	5	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8410.22	11	5	0.007 kg
						2 NO	Silver	Solder 2.8 x 0.5 mm	61-8420.12	14	8	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8420.22	14	8	0.007 kg
						3 NO	Silver	Solder 2.8 x 0.5 mm	61-8430.12	16	10	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8430.22	16	10	0.007 kg
						1 NC	Silver	Solder 2.8 x 0.5 mm	61-8440.12	8	2	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8440.22	8	2	0.007 kg
						2 NC	Silver	Solder 2.8 x 0.5 mm	61-8450.12	12	6	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8450.22	12	6	0.007 kg
						3 NC	Silver	Solder 2.8 x 0.5 mm	61-8460.12	15	9	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8460.22	15	9	0.007 kg
						1 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	61-8470.12	9	3	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8470.22	9	3	0.007 kg
						2 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	61-8480.12	13	7	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8480.22	13	7	0.007 kg
						1 NC + 2 NO	Silver	Solder 2.8 x 0.5 mm	61-8490.12	10	4	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	61-8490.22	10	4	0.007 kg

61 Accessories

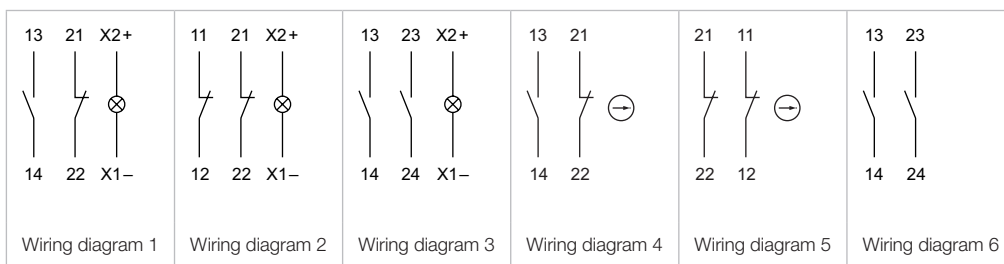
Switching element 3 positions

Additional Information

- We offer a dismantling tool Part No. 61-9711.0 for dismantling of the switching element

Product attribute	Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Art.-Nr.	Component layout	Wiring diagram	Gewicht	
 with lamp terminal	250 VAC	5 A	Snap-action switching element	2 NO	Silver	Solder 2.8 x 0.5 mm	61-8520.12	31	3	0.008 kg	
					Gold	Solder 2.8 x 0.5 mm	61-8520.22	31	3	0.008 kg	
				2 NC	Silver	Solder 2.8 x 0.5 mm	61-8550.12	30	2	0.008 kg	
					Gold	Solder 2.8 x 0.5 mm	61-8550.22	30	2	0.008 kg	
				1 NC + 1 NO	Gold	Solder 2.8 x 0.5 mm	61-8574.22	29	1	0.008 kg	
					Silver	Solder 2.8 x 0.5 mm	61-8574.12	29	1	0.008 kg	
	Slow-make switching element	42 VAC/DC	0.1 A	Slow-make switching element	2 NO	Silver	Solder 2.8 x 0.5 mm	61-8720.17	31	3	0.008 kg
					2 NC	Silver	Solder 2.8 x 0.5 mm	61-8750.17	31	2	0.008 kg
					1 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	61-8770.17	32	1	0.008 kg
	without lamp terminal	250 VAC	5 A	Slow-make switching element	2 NO	Silver	Screw	61-8725.11	28	6	0.008 kg
					2 NC	Silver	Screw	61-8755.11	27	5	0.008 kg
					1 NC + 1 NO	Silver	Screw	61-8775.11	25	4	0.008 kg

Contacts: NC = Normally closed, NO = Normally open
The component layouts you will find from page 666




61 Accessories

Lever raised design

Additional Information

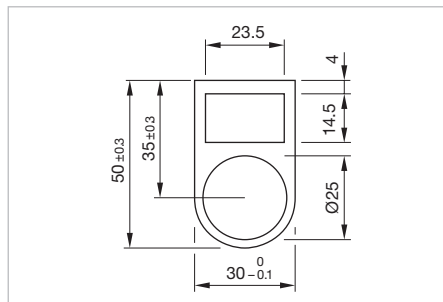
- With bar and marking dot

Lever illumination	Lever	Bar colour	Part No.	Weight
 Lever raised design				
illuminative	Plastic black	red	52-928.20	0.001 kg
		orange	52-928.30	0.001 kg
		yellow	52-928.40	0.001 kg
		green	52-928.50	0.001 kg
		blue	52-928.60	0.001 kg
	Plastic grey	red	52-929.20	0.001 kg
		orange	52-929.30	0.001 kg
		yellow	52-929.40	0.001 kg
		green	52-929.50	0.001 kg
		blue	52-929.60	0.001 kg
non-illuminative	Plastic black	black	52-928.0	0.001 kg
		white	52-928.9	0.001 kg
	Plastic grey	grey	52-929.8	0.001 kg
		white	52-929.9	0.001 kg


Legend frame

Additional Information

- For devices with front dimension $\varnothing 25$ mm, flush design
- The colour of anodized aluminium parts can vary due to technical production reasons



Dimensions [mm]


Dimension	Material	Colour	Mounting type	Part No.	Weight
 Legend frame					
30 x 50 x 0.75 mm	Aluminium	black anodized	adhesive	61-9980.0	0.001 kg

61 Accessories



Tool set

Additional Information

- Consists of lens remover, lamp-and LED remover, mounting tool and dismantling tool
- For dismantling keep care of the enclosed assembly instruction

Part No.	Weight
 <p>Tool set</p>	
K61-999.100	0.048 kg


Lens remover

Product attribute	Part No.	Weight
 <p>Lens remover</p>		
for raised design	02-905	0.011 kg
 <p>Lens remover</p>		
for flush design	61-9730.0	0.011 kg

Lamp remover

Additional Information

- ▲ **Caution:** A switching process might be released when replacing the lamp

Part No.	Weight
 <p>Lamp remover</p>	
61-9740.0	0.003 kg

Product attribute	Diode 1N4007	Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Component layout	Wiring diagram	Weight
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Switching element for pushbutton and keylock- and selector switch 2 positions

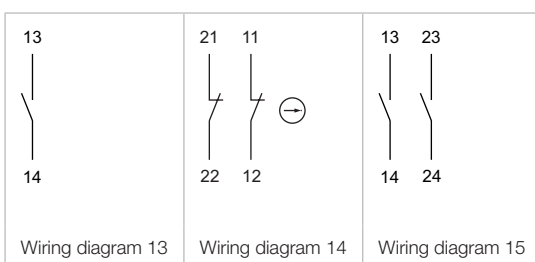
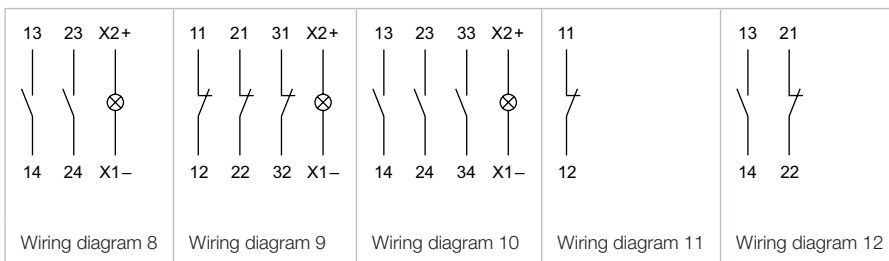
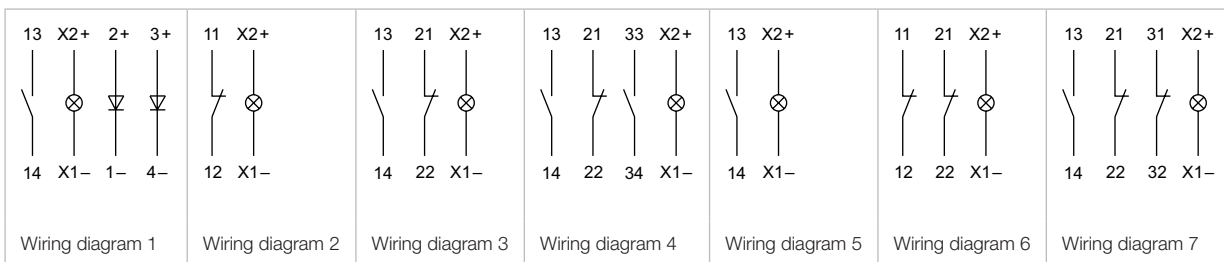
with lamp terminal	250 VAC	5 A	Slow-make switching element	1 NO	Silver	Solder 2.8 x 0.5 mm	61-8610.17	20	5	0.008 kg
				2 NO	Silver	Solder 2.8 x 0.5 mm	61-8620.17	23	8	0.008 kg
				1 NC	Silver	Solder 2.8 x 0.5 mm	61-8640.17	17	2	0.008 kg
				2 NC	Silver	Solder 2.8 x 0.5 mm	61-8650.17	22	6	0.008 kg
				1 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	61-8670.17	19	3	0.008 kg
	42 VAC/DC	0.1 A	Slow-make switching element	1 NO	Gold	Solder 2.8 x 0.5 mm	61-8610.37	20	5	0.008 kg
				2 NO	Gold	Solder 2.8 x 0.5 mm	61-8620.37	23	8	0.008 kg
				1 NC	Gold	Solder 2.8 x 0.5 mm	61-8640.37	17	2	0.008 kg
				2 NC	Gold	Solder 2.8 x 0.5 mm	61-8650.37	22	6	0.008 kg
				1 NC + 1 NO	Gold	Solder 2.8 x 0.5 mm	61-8670.37	19	3	0.008 kg



Switching element for pushbutton and keylock- and selector switch 2 positions

with lamp terminal	250 VAC	5 A	Slow-make switching element	1 NO	Silver	Screw	61-8610.11	21	5	0.008 kg
				1 NC	Silver	Screw	61-8640.11	18	11	0.008 kg
without lamp terminal	250 VAC	5 A	Slow-make switching element	1 NO	Silver	Screw	61-8615.11	26	13	0.008 kg
				2 NO	Silver	Screw	61-8625.11	28	15	0.008 kg
				1 NC	Silver	Screw	61-8645.11	24	11	0.008 kg
				2 NC	Silver	Screw	61-8655.11	27	14	0.008 kg
				1 NC + 1 NO	Silver	Screw	61-8675.11	25	12	0.008 kg

Contacts: NC = Normally closed, NO = Normally open
The component layouts you will find from page 666




61 Accessories



Tool set

Additional Information

- Consists of lens remover, lamp-and LED remover, mounting tool and dismantling tool
- For dismantling keep care of the enclosed assembly instruction

Part No.	Weight
 <p>Tool set</p>	
K61-999.100	0.048 kg


Lens remover

Product attribute	Part No.	Weight
 <p>Lens remover</p>		
for raised design	02-905	0.011 kg
 <p>Lens remover</p>		
for flush design	61-9730.0	0.011 kg

Lamp remover

Additional Information

- ▲ **Caution:** A switching process might be released when replacing the lamp

Part No.	Weight
 <p>Lamp remover</p>	
61-9740.0	0.003 kg

61 Accessories


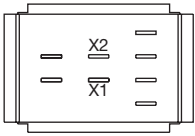
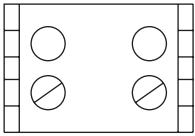
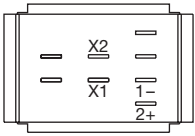
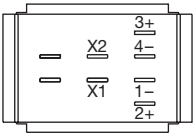
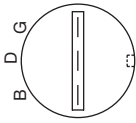
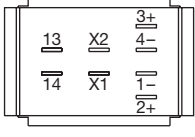
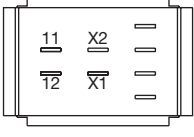
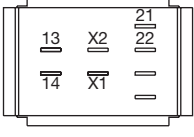
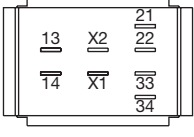
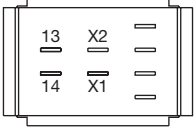
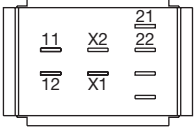
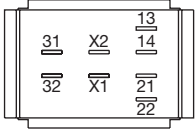
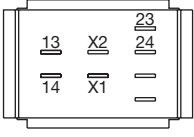
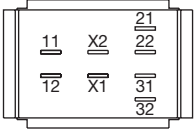
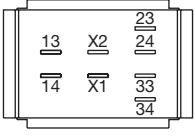
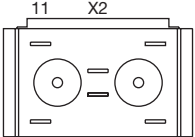
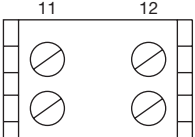
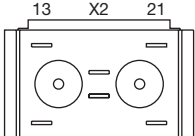
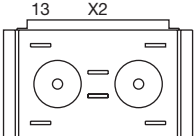
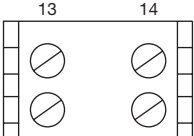
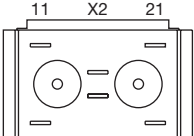
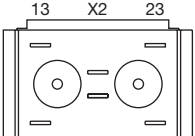
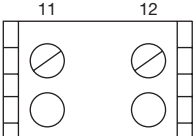
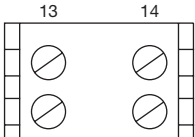
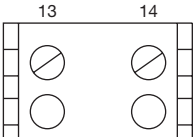
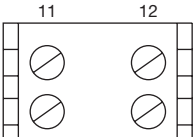
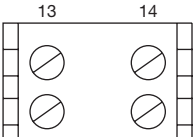
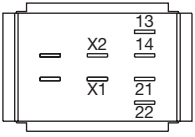
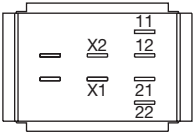
Cable gland, IP 68

Additional Information

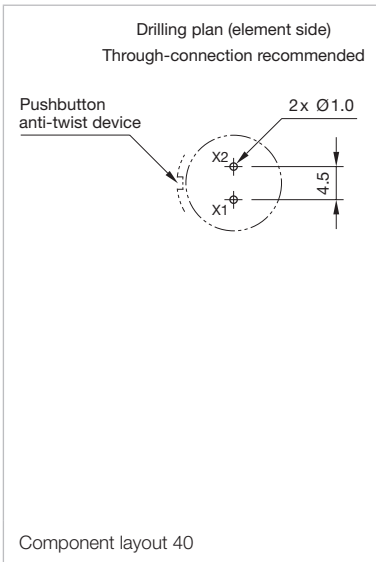
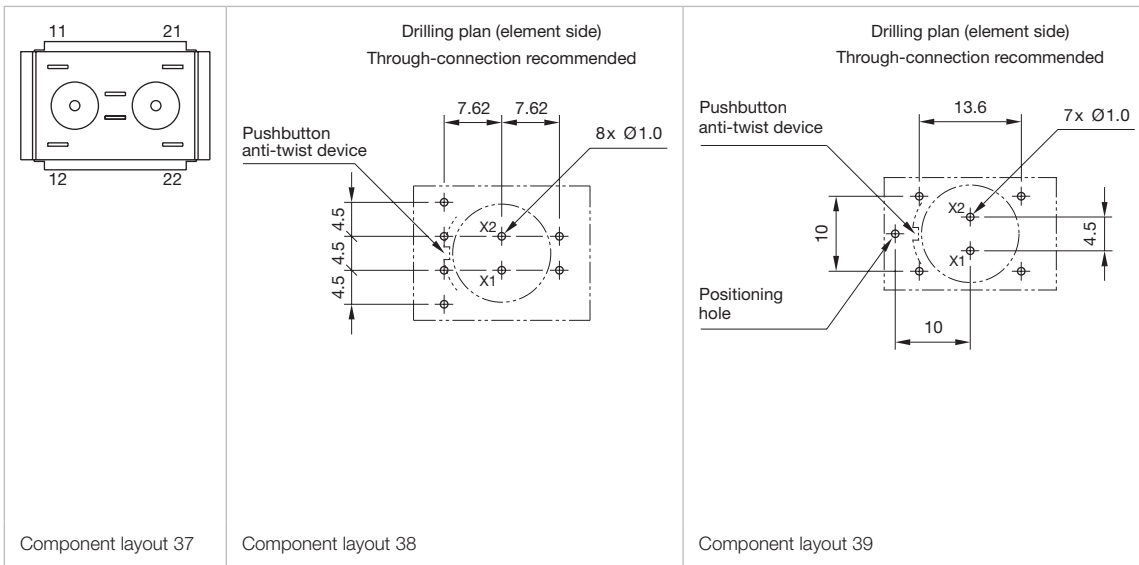
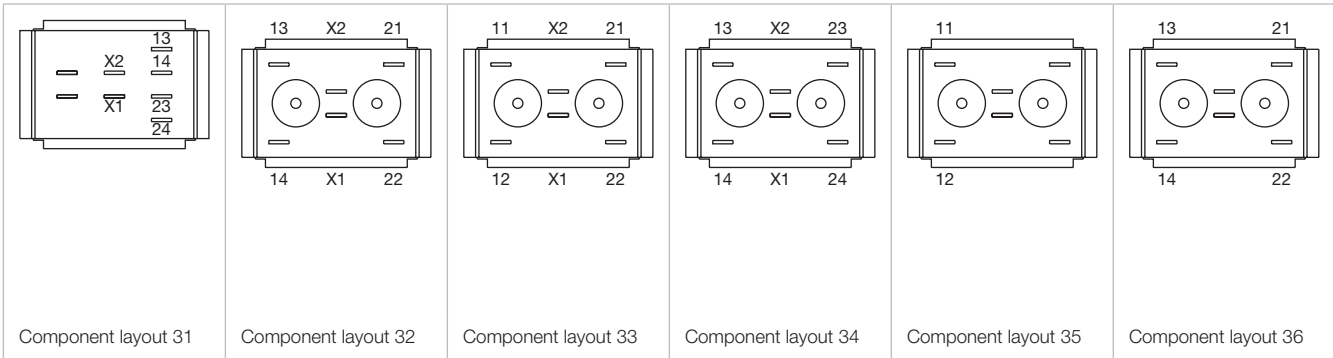
- With traction relief
- With fixing nut

Product attribute	Thread	Material	Colour	Part No.	Weight
					
Cable gland					
Clamping range Ø 4 ... 10 mm, thread length 8 mm	M16 x 1.5	Plastic	grey	61-9481.6	0.007 kg
Clamping range Ø 6 ... 12 mm, thread length 9 mm	M20 x 1.5	Plastic	grey	704.945.6	0.011 kg

Drawings

<p>Rearview Potentiometer terminals</p>  <p>Conductor colour of flat ribbon cable a = blue, b = red, c = yellow</p> <p>Component layout 1</p>	 <p>Component layout 2</p>	 <p>Component layout 3</p>	 <p>Component layout 4</p>	 <p>Component layout 5</p>	 <p>Component layout 6</p>
 <p>Component layout 7</p>	 <p>Component layout 8</p>	 <p>Component layout 9</p>	 <p>Component layout 10</p>	 <p>Component layout 11</p>	 <p>Component layout 12</p>
 <p>Component layout 13</p>	 <p>Component layout 14</p>	 <p>Component layout 15</p>	 <p>Component layout 16</p>	 <p>Component layout 17</p>	 <p>Component layout 18</p>
 <p>Component layout 19</p>	 <p>Component layout 20</p>	 <p>Component layout 21</p>	 <p>Component layout 22</p>	 <p>Component layout 23</p>	 <p>Component layout 24</p>
 <p>Component layout 25</p>	 <p>Component layout 26</p>	 <p>Component layout 27</p>	 <p>Component layout 28</p>	 <p>Component layout 29</p>	 <p>Component layout 30</p>

61 Drawings



Actuator with snap-action switching element

Switching system

Self-cleaning, double-break snap-action switching system with contact opening width 2 x 0.5 mm (switch with small contact opening width as per EN IEC 61058-1).

The switching elements are optionally equipped with the following switching functions:

One to three normally open (NO) or normally closed (NC), or any combination of NO and NC plus connections for T1 3/4 LED or lamp.

The number of switching elements cannot exceed three.

The switching elements provided for the 3-position switch actuators are equipped with max. 2 NC or 2 NO or any combination.

The number of switching elements cannot exceed two.

Material

Lens

Raised mounting Polymethylmethacrylat (PMMA), as per UL 94 HB, flush mounting Polycarbonat (PC), as per UL 94 V0, or Aluminium anodized

Front bezel

Polyetherimid (PEI), as per UL 94 V0, or Aluminium anodized

Front ring

Aluminium anodized

Material of contact

Silver or silver with gold plating

Switching element

Diallylphthalate (DAP), as per UL 94 V0 and Polyamide (PA 66), as per UL 94 V0

Actuator housing

Polyetherimide (PEI), as per UL 94 V0, self-extinguishing

Mechanical characteristics

Terminals

	rigid	flexible	superflexible
1 wire	0.5...1.5 mm ²	0.5...0.75 mm ²	0.5 mm ²
2 wires	0.75 mm ²	0.5 mm ²	

Tightening torque

for fixing nut max. 50 Ncm

Actuating torque

Selector-/Keylock switch 2.5... 10 Ncm

Actuating force

Pushbutton 2.7... 3.6 N

Actuating travel

Pushbutton 3 mm

Selector-/keylock switch	2 positions	3 positions
Momentary action	approx. 42°	approx. 2 x 42°
Maintained action	approx. 90°	approx. 2 x 90°

Rebound time

The rebound times apply to normal manual activation

Contact making 3 ms

Contact breaking 5 ms

Mechanical lifetime

as per DIN IEC 60512-5-6 and EN IEC 60947-5-1

Pushbutton maintained action 1 million cycles of operation

Pushbutton momentary action 2 million cycles of operation

Keylock switch 50 000 cycles of operation

Selector switch 100 000 cycles of operation

Electrical characteristics

Standards

The devices comply with: EN IEC 61058-1 and EN IEC 60947-5-1

Rated Operational Voltage U_e

250 VAC/DC as per EN IEC 60947-1

Rated Insulation Voltage U_i

320 VAC, as per EN IEC 60947-5-1

Rated Impulse Withstand Voltage U_{imp}

4 kV, as per EN IEC 60947-5-1

Contact resistance

New state with silver contact ≤ 100 mΩ

as per DIN IEC 60512-2-4, measured at 100 mA, 10 V

New state with gold plated contact ≤ 50 mΩ

as per DIN IEC 60512-2-3, measured at 20 mV, 10 mA

Electrical life

≥ 50 000 cycles of operation at 250 VAC, 5 A, cosφ 0.95,

as per EN IEC 60947-5-1

Electrostatic discharge (ESD)

Keylock switch 11 kV

Conventional free air thermal current I_{th}

5 A, as per EN IEC 60947-5-1

the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating

Switch rating AC with silver contact or silver contact with gold plating, service category AC-15, as per EN IEC 60947-5-1

Voltage 125 VAC 250 VAC

Current 2.5 A 2 A

Switch rating DC for silver contact or silver contact with gold plating, service category DC-13, as per EN IEC 60947-5-1

Voltage 250 VDC

Current 0.15 A

Recommended minimum operational data

Material of contact	Silver	Silver with gold plating
Voltage	20 VAC/DC	5 VAC/DC
Current	100 mA	10 mA