








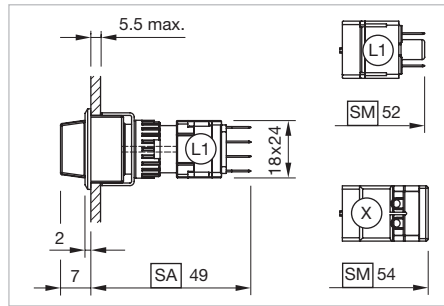
## Selector switch 2 positions square, IP 65

### Equipment consisting of (schematic overview)

-  **Lever** page 638
-  **Single-LED** page 657
-  **Actuator**
-  **Front bezel set** page 643
-  **Front bezel set** page 643
-  **Fixing nut**
-  **Switching element** page 651

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

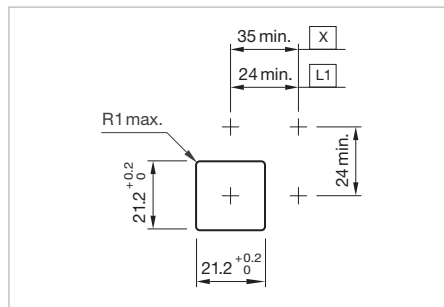
To obtain a complete unit, please select the red components from the page s shown.



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



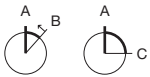
Product can differ from the current configuration.




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

### Additional Information

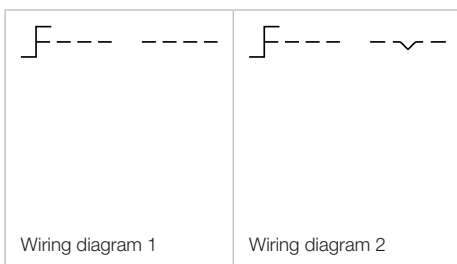
- For front dimension 24 x 24 mm
- Illuminative



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

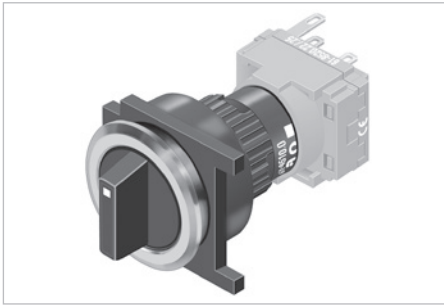
Switching action	Switching angle	Part No.	Wiring diagram	Weight
 <b>Selector switch actuator 2 positions square</b>				
A - B	B = 42°	<b>61-4110.0</b>	1	0.006 kg
A - C	C = 90°	<b>61-4210.0</b>	2	0.006 kg

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

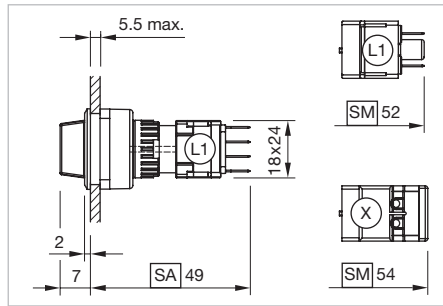


# 61 Flush design

## Selector switch 2 positions round, IP 65



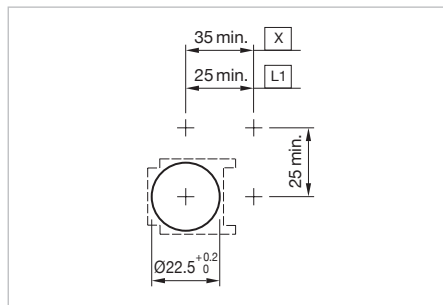
Product can differ from the current configuration.



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  $\varnothing$  25 mm
- Illuminative



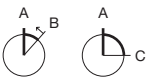
Mounting cut-outs [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
X = Screw terminal

### Equipment consisting of (schematic overview)

	<b>Lever</b>	page 638
	<b>Single-LED</b>	page 657
	<b>Actuator</b>	
	<b>Front bezel set</b>	page 643
	<b>Anti-twist ring</b>	
	<b>Part of front bezel set</b>	
	<b>Fixing nut</b>	
	<b>Switching element</b>	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.



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




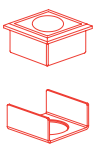


Switching action	Switching angle	Part No.	Wiring diagram	Weight
<b>Selector switch actuator 2 positions round</b>				
A - B	B = 42°	<b>61-4110.0</b>	1	0.006 kg
A - C	C = 90°	<b>61-4210.0</b>	2	0.006 kg

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

Wiring diagram 1	Wiring diagram 2

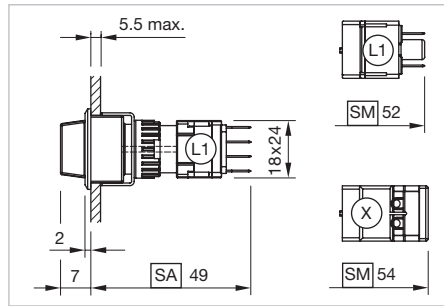
## Selector switch 3 positions square, IP 65

### Equipment consisting of (schematic overview)

-  **Lever** page 638
-  **Single-LED** page 657
-  **Actuator**
-  **Front bezel set** page 643
-  **Fixing nut**
-  **Switching element** page 653

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

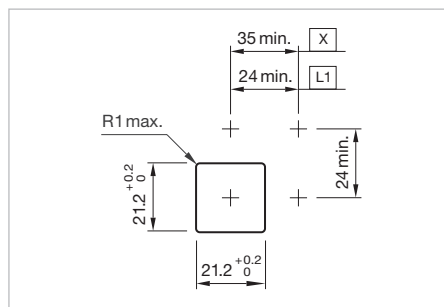
To obtain a complete unit, please select the red components from the page s shown.



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



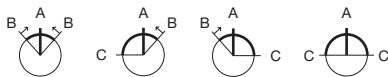
Product can differ from the current configuration.




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

### Additional Information



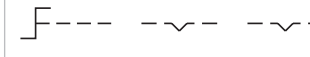
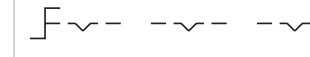
- For front dimension 24 x 24 mm
- Illuminative



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








Switching action	Switching angle	Part No.	Wiring diagram	Weight
 <b>Selector switch actuator 3 positions square</b>				
B - A - B	B = 42° / 42°	<b>61-4510.0</b>	1	0.006 kg
C - A - B	C = 90°, B = 42°	<b>61-4810.0</b>	2	0.006 kg
B - A - C	B = 42°, C = 90°	<b>61-4710.0</b>	3	0.006 kg
C - A - C	C = 90° / 90°	<b>61-4610.0</b>	4	0.006 kg

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

			
Wiring diagram 1	Wiring diagram 2	Wiring diagram 3	Wiring diagram 4

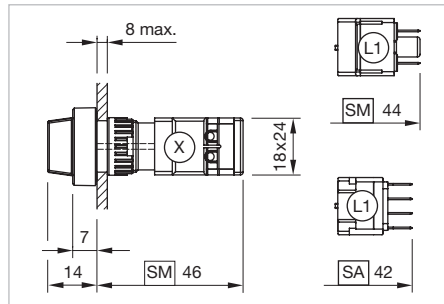
## Selector switch 2 positions square, IP 65

### Equipment consisting of (schematic overview)

-  **Lever** page 640
-  **Front bezel** page 644
-  **Single-LED** page 658
-  **Actuator**
-  **Anti-twist ring** page 663
-  **Fixing nut**
-  **Switching element** page 652

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

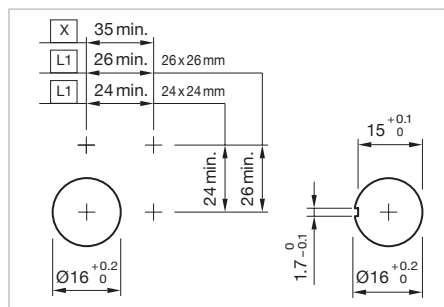
To obtain a complete unit, please select the red components from the pages shown.



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



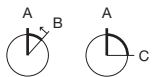
Product can differ from the current configuration.




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

### Additional Information

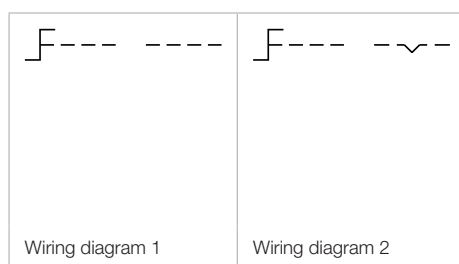
- For front dimensions 26 x 26 mm, 24 x 24 mm
- Illuminative
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device



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

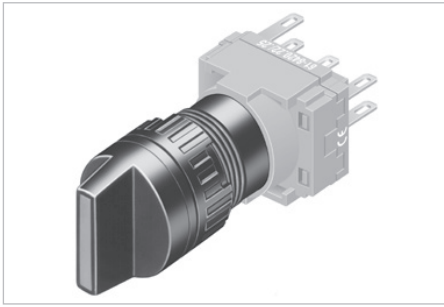
Switching action	Switching angle	Part No.	Wiring diagram	Weight
 <b>Selector switch actuator 2 positions square</b>				
A - B	B = 42°	<b>61-4110.0</b>	1	0.006 kg
A - C	C = 90°	<b>61-4210.0</b>	2	0.006 kg

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

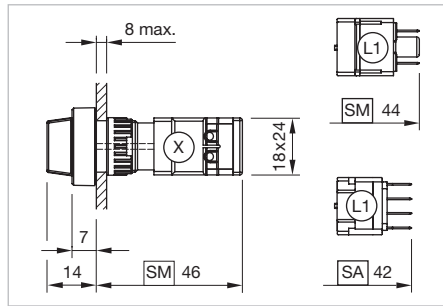


# 61 Raised design

## Selector switch 2 positions round, IP 65



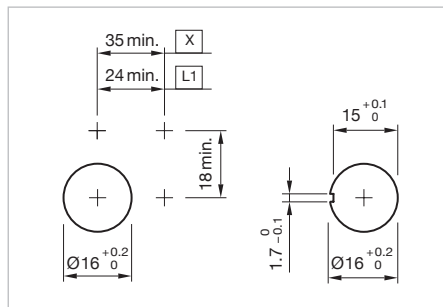
Product can differ from the current configuration.



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

- Illuminative
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device



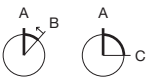
Mounting cut-outs [mm]  
 L1 = Solder terminal 2.8 x 0.5 mm,  
 X = Screw terminal

### Equipment consisting of (schematic overview)

- Lever** page 640
- Single-LED** page 658
- Actuator**
- Anti-twist ring** page 663
- Fixing nut**
- Switching element** page 652

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

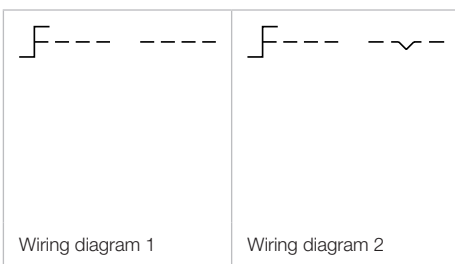
*To obtain a complete unit, please select the red components from the pages shown.*



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








Switching action	Switching angle	Part No.	Wiring diagram	Weight
<b>Selector switch actuator 2 positions round, Front dimension Ø 18 mm</b>				
A - B	B = 42°	<b>61-4110.0</b>	1	0.006 kg
A - C	C = 90°	<b>61-4210.0</b>	2	0.006 kg

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



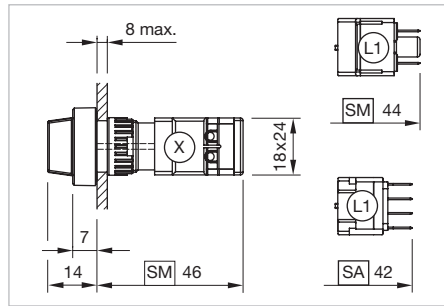
## Selector switch 3 positions square, IP 65

### Equipment consisting of (schematic overview)

-  **Lever** page 640
-  **Front bezel** page 644
-  **Single-LED** page 658
-  **Actuator**
-  **Anti-twist ring** page 663
-  **Fixing nut**
-  **Switching element** page 652

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

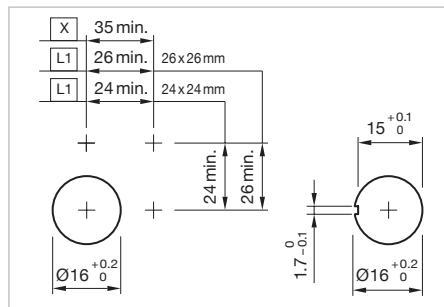
To obtain a complete unit, please select the red components from the pages shown.



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



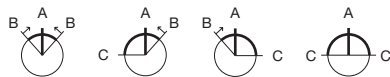
Product can differ from the current configuration.




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

### Additional Information



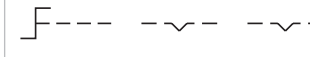
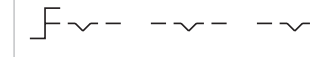
- Illuminative
- For front dimensions 26 x 26 mm, 24 x 24 mm
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device



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

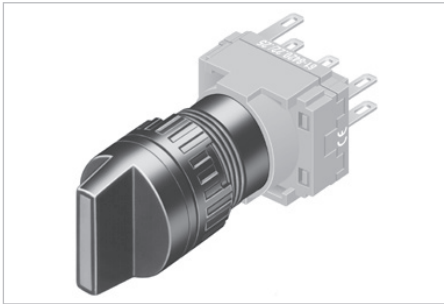
Switching action	Switching angle	Part No.	Wiring diagram	Weight
 <b>Selector switch actuator 3 positions square</b>				
B - A - B	B = 42° / 42°	<b>61-4510.0</b>	1	0.006 kg
C - A - B	C = 90°, B = 42°	<b>61-4810.0</b>	2	0.006 kg
B - A - C	B = 42°, C = 90°	<b>61-4710.0</b>	3	0.006 kg
C - A - C	C = 90° / 90°	<b>61-4610.0</b>	4	0.006 kg

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

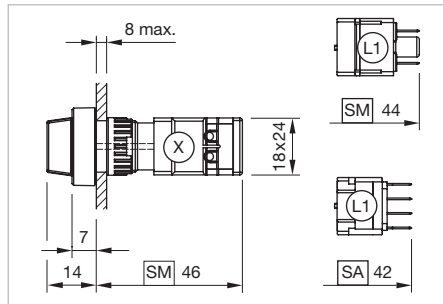
 Wiring diagram 1	 Wiring diagram 2	 Wiring diagram 3	 Wiring diagram 4
---------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

# 61 Raised design

## Selector switch 3 positions round, IP 65



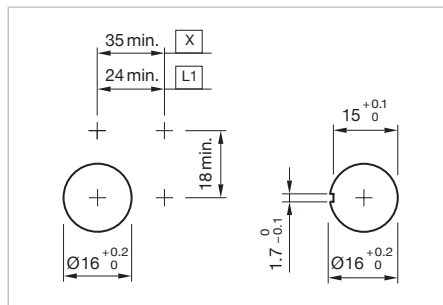
Product can differ from the current configuration.



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

- Illuminative
- If mounted with anti-twist device, the lug is on the left side
- Anti-twist ring not needed by using anti-twist device



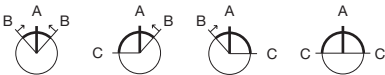
Mounting cut-outs [mm]  
 L1 = Solder terminal 2.8 x 0.5 mm,  
 X = Screw terminal

### Equipment consisting of (schematic overview)


- Lever** page 640
- Single-LED** page 658
- 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.

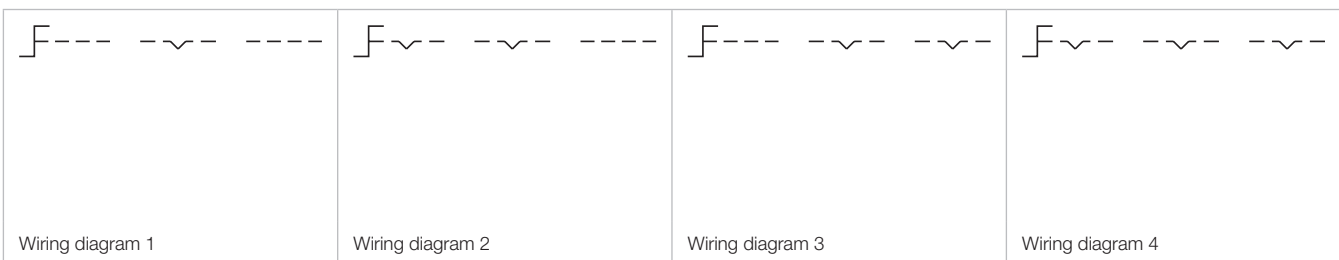
To obtain a complete unit, please select the red components from the pages shown.







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

Switching action	Switching angle	Part No.	Wiring diagram	Weight
 <b>Selector switch actuator 3 positions round, Front dimension Ø 18 mm</b>				
B - A - B	B = 42° / 42°	<b>61-4510.0</b>	1	0.006 kg
C - A - B	C = 90°, B = 42°	<b>61-4810.0</b>	2	0.006 kg
B - A - C	B = 42°, C = 90°	<b>61-4710.0</b>	3	0.006 kg
C - A - C	C = 90° / 90°	<b>61-4610.0</b>	4	0.006 kg

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




**Keylock front bezel raised design**

Material	Colour	Part No.	Weight
	<b>Keylock front bezel for keylock switch, raised design, Front dimension 24 x 24 mm</b>		
Plastic	black	<b>61-9250.0</b>	0.001 kg
	<b>Keylock front bezel for keylock switch, raised design, Front dimension 18 x 18 mm</b>		
Plastic	black	<b>61-9220.0</b>	0.001 kg
	<b>Keylock front bezel for keylock switch, raised design, Front dimension 18 x 24 mm</b>		
Plastic	black	<b>61-9230.0</b>	0.001 kg
	<b>Keylock front bezel for keylock switch, raised design, Front dimension Ø 18 mm</b>		
Plastic	black	<b>61-9210.0</b>	0.001 kg

**Lever flush design**

**Additional Information**

- With bar and marking dot


Lever illumination	Lever	Bar colour	Part No.	Weight
	<b>Lever flush design</b>			
illuminative	Plastic black	red	<b>61-9028.20</b>	0.001 kg
		yellow	<b>61-9028.40</b>	0.001 kg
		green	<b>61-9028.50</b>	0.001 kg
		blue	<b>61-9028.60</b>	0.001 kg
	Plastic grey	red	<b>61-9029.20</b>	0.001 kg
		orange	<b>61-9029.30</b>	0.001 kg
		yellow	<b>61-9029.40</b>	0.001 kg
		green	<b>61-9029.50</b>	0.001 kg
non-illuminative	Plastic black	black	<b>61-9028.0</b>	0.001 kg
		white	<b>61-9028.9</b>	0.001 kg
	Plastic grey	grey	<b>61-9029.8</b>	0.001 kg
		white	<b>61-9029.9</b>	0.001 kg



**Legend plate**

**Additional Information**




- For legend frame Part No. 61-9980.0
- The colour of anodized aluminium parts can vary due to technical production reasons

Dimension	Material	Colour	Mounting type	Part No.	Weight
 <p><b>Legend plate for legend frame</b></p>					
14.5 x 23.5 mm	Aluminium	natural anodized	adhesive	<b>704.968.0</b>	0.001 kg
		black anodized	adhesive	<b>704.968.1</b>	0.001 kg

**Front bezel set pushbutton**

**Additional Information**

- The dimensions of the Mounting cut-outs are shown in the product details
- The colour of anodized aluminium parts can vary due to technical production reasons



Mounting cut-out	Front bezel	Part No.	Weight
 <p><b>Front bezel set for indicator and illuminated pushbutton, flush design, Front dimension 24 x 24 mm</b></p>			
21 x 21 mm	Plastic black	<b>61-9930.0</b>	0.008 kg
	Plastic silver	<b>61-9930.4</b>	0.008 kg
 <p><b>Front bezel set for indicator and illuminated pushbutton, flush design, Front dimension 24 x 30 mm</b></p>			
21 x 27 mm	Plastic black	<b>61-9931.0</b>	0.008 kg
	Plastic silver	<b>61-9931.4</b>	0.008 kg
 <p><b>Front bezel set for indicator and illuminated pushbutton, flush design, Front dimension Ø 25 mm</b></p>			
Ø 22.5 mm	Aluminium natural anodized	<b>61-9933.0</b>	0.006 kg
	Aluminium black anodized	<b>61-9933.1</b>	0.006 kg
	Aluminium red anodized	<b>61-9933.2</b>	0.006 kg
	Aluminium gold anodized	<b>61-9933.4</b>	0.006 kg
	Aluminium olive-green anodized	<b>61-9933.5</b>	0.006 kg
	Aluminium blue anodized	<b>61-9933.6</b>	0.006 kg
	Plastic black	<b>61-9933.10</b>	0.008 kg

# 61 Accessories

## Front bezel set selector switch

### Additional Information

- The dimensions of the mounting cut-outs are shown in the product details
- With the round front bezel sets Ø 25 mm 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><b>Front bezel set for selector switch, flush design, Front dimension 24 x 24 mm</b></p>			
21 x 21 mm	Plastic black	<b>61-9936.0</b>	0.007 kg
 <p><b>Front bezel set for selector switch, flush design, Front dimension Ø 25 mm</b></p>			
Ø 22.5 mm	Aluminium natural anodized	<b>61-9932.0</b>	0.006 kg
	Aluminium black anodized	<b>61-9932.1</b>	0.006 kg
	Aluminium red anodized	<b>61-9932.2</b>	0.006 kg
	Aluminium gold anodized	<b>61-9932.4</b>	0.006 kg
	Aluminium olive-green anodized	<b>61-9932.5</b>	0.006 kg
	Aluminium blue anodized	<b>61-9932.6</b>	0.006 kg
	Plastic black	<b>61-9932.10</b>	0.008 kg

## Front bezel selector switch square

### Additional Information


- The dimensions of the mounting cut-outs are shown in the product details

Dimension	Front bezel	Part No.	Weight
 <p><b>Front bezel for selector switch square, raised design</b></p>			
24 x 24 mm	Plastic black	<b>52-950.0</b>	0.001 kg
26 x 26 mm	Plastic black	<b>52-952.0</b>	0.001 kg

**Front ring**

**Additional Information**


- For devices with front dimension Ø 24 mm, raised design
- The colour of anodized aluminium parts can vary due to technical production reasons

Front ring	Part No.	Weight
 <p><b>Front ring, Front dimension Ø 24 mm</b></p>		
Aluminium black anodized	<b>61-9600.0</b>	0.003 kg
Aluminium natural anodized	<b>61-9600.1</b>	0.003 kg

**Front protective cap, IP 68**

**Additional Information**

- For flat lense profil only
- When using the front protection cover for push buttons the external sealing in the front bezel set and the silicone bellows in the actuator are to be removed


Product attribute	Material	Colour	Optics	Part No.	Weight
 <p><b>Front protective cap</b></p>					
for front bezel set 24 x 30 mm, flush design	Silicone	colourless	transparent	<b>61-9927.2</b>	0.001 kg
 <p><b>Front protective cap</b></p>					
for front bezel set Ø 25 mm, flush design	Silicone	colourless	transparent	<b>84-9103.7</b>	0.001 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><b>Flasher element</b></p>				
12 ... 28 ±10 % VAC/DC	Solder	<b>61-8000.05</b>	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><b>Switching element for pushbutton and keylock- and selector switch 2 positions</b></p>												
with lamp terminal	2	250 VAC	5 A	Snap-action switching element	1 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8212.12</b>	7	1	0.007 kg	
						Gold	Solder 2.8 x 0.5 mm	<b>61-8212.22</b>	7	1	0.007 kg	
			250 VAC	5 A	Snap-action switching element	1 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8410.12</b>	11	5	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8410.22</b>	11	5	0.007 kg
						2 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8420.12</b>	14	8	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8420.22</b>	14	8	0.007 kg
						3 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8430.12</b>	16	10	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8430.22</b>	16	10	0.007 kg
						1 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8440.12</b>	8	2	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8440.22</b>	8	2	0.007 kg
						2 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8450.12</b>	12	6	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8450.22</b>	12	6	0.007 kg
						3 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8460.12</b>	15	9	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8460.22</b>	15	9	0.007 kg
						1 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8470.12</b>	9	3	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8470.22</b>	9	3	0.007 kg
						2 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8480.12</b>	13	7	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8480.22</b>	13	7	0.007 kg
						1 NC + 2 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8490.12</b>	10	4	0.007 kg
							Gold	Solder 2.8 x 0.5 mm	<b>61-8490.22</b>	10	4	0.007 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

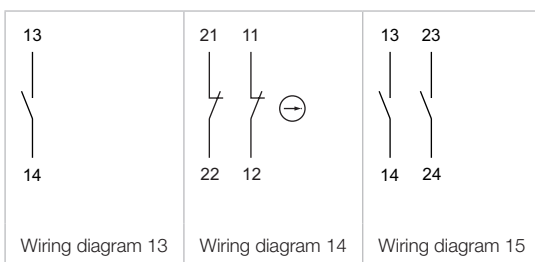
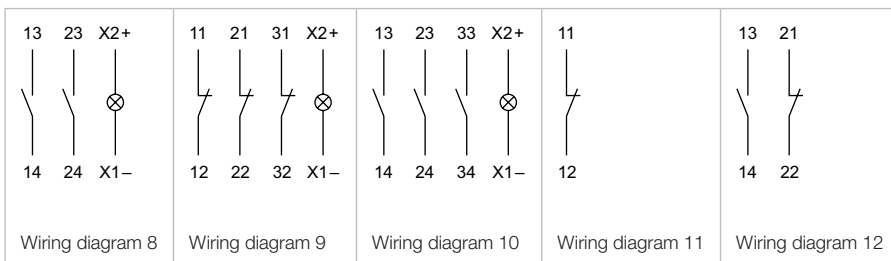
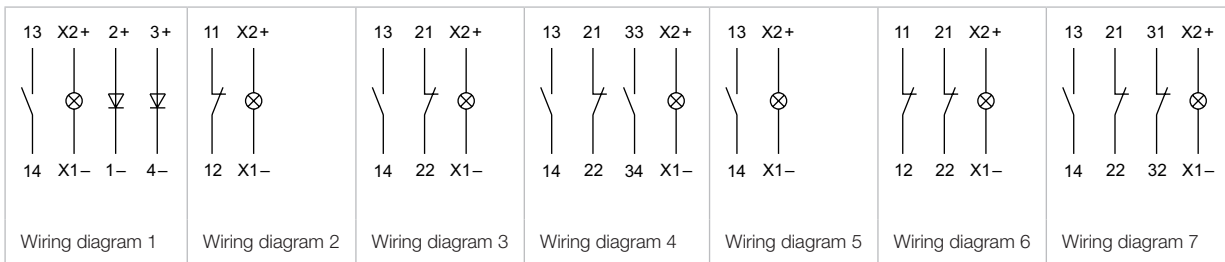
with lamp terminal	250 VAC	5 A	Slow-make switching element	1 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8610.17</b>	20	5	0.008 kg
				2 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8620.17</b>	23	8	0.008 kg
				1 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8640.17</b>	17	2	0.008 kg
				2 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8650.17</b>	22	6	0.008 kg
				1 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8670.17</b>	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	<b>61-8610.37</b>	20	5	0.008 kg
				2 NO	Gold	Solder 2.8 x 0.5 mm	<b>61-8620.37</b>	23	8	0.008 kg
				1 NC	Gold	Solder 2.8 x 0.5 mm	<b>61-8640.37</b>	17	2	0.008 kg
				2 NC	Gold	Solder 2.8 x 0.5 mm	<b>61-8650.37</b>	22	6	0.008 kg
				1 NC + 1 NO	Gold	Solder 2.8 x 0.5 mm	<b>61-8670.37</b>	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	<b>61-8610.11</b>	21	5	0.008 kg
				1 NC	Silver	Screw	<b>61-8640.11</b>	18	11	0.008 kg
without lamp terminal	250 VAC	5 A	Slow-make switching element	1 NO	Silver	Screw	<b>61-8615.11</b>	26	13	0.008 kg
				2 NO	Silver	Screw	<b>61-8625.11</b>	28	15	0.008 kg
				1 NC	Silver	Screw	<b>61-8645.11</b>	24	11	0.008 kg
				2 NC	Silver	Screw	<b>61-8655.11</b>	27	14	0.008 kg
				1 NC + 1 NO	Silver	Screw	<b>61-8675.11</b>	25	12	0.008 kg

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




# 61 Accessories

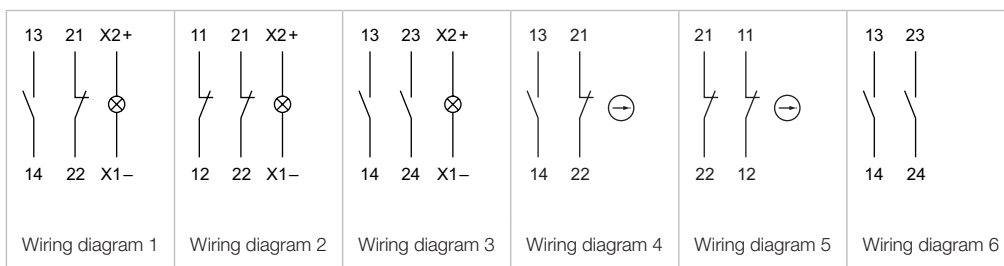
## Switching element 3 positions

### 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	<b>61-8520.12</b>	31	3	0.008 kg	
					Gold	Solder 2.8 x 0.5 mm	<b>61-8520.22</b>	31	3	0.008 kg	
				2 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8550.12</b>	30	2	0.008 kg	
					Gold	Solder 2.8 x 0.5 mm	<b>61-8550.22</b>	30	2	0.008 kg	
				1 NC + 1 NO	Gold	Solder 2.8 x 0.5 mm	<b>61-8574.22</b>	29	1	0.008 kg	
					Silver	Solder 2.8 x 0.5 mm	<b>61-8574.12</b>	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	<b>61-8720.17</b>	31	3	0.008 kg
					2 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8750.17</b>	31	2	0.008 kg
					1 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8770.17</b>	32	1	0.008 kg
	without lamp terminal	250 VAC	5 A	Slow-make switching element	2 NO	Gold	Solder 2.8 x 0.5 mm	<b>61-8720.37</b>	34	3	0.008 kg
					2 NC	Gold	Solder 2.8 x 0.5 mm	<b>61-8750.37</b>	33	2	0.008 kg
					1 NC + 1 NO	Gold	Solder 2.8 x 0.5 mm	<b>61-8770.37</b>	32	1	0.008 kg
without lamp terminal	250 VAC	5 A	Slow-make switching element	2 NO	Silver	Screw	<b>61-8725.11</b>	28	6	0.008 kg	
				2 NC	Silver	Screw	<b>61-8755.11</b>	27	5	0.008 kg	
				1 NC + 1 NO	Silver	Screw	<b>61-8775.11</b>	25	4	0.008 kg	

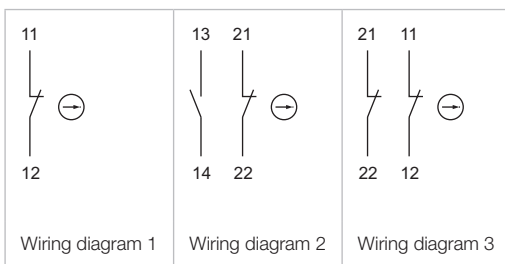
Contacts: NC = Normally closed, NO = Normally open  
The component layouts you will find from page 666




**Switching element E-stop & stop**

Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Component layout	Wiring diagram	Weight
 <p><b>Switching element for emergency-stop switch, foolproof EN IEC 60947-5-5</b></p>									
250 VAC	5 A	Slow-make switching element	1 NC	Silver	Screw	<b>61-8745.11</b>	24	1	0.008 kg
			2 NC	Silver	Screw	<b>61-8755.11</b>	27	3	0.008 kg
			1 NC + 1 NO	Silver	Screw	<b>61-8775.11</b>	25	2	0.008 kg
 <p><b>Switching element for emergency-stop switch, foolproof EN IEC 60947-5-5</b></p>									
250 VAC	5 A	Slow-make switching element	1 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8745.17</b>	35	1	0.008 kg
			2 NC	Silver	Solder 2.8 x 0.5 mm	<b>61-8755.17</b>	37	3	0.008 kg
			1 NC + 1 NO	Silver	Solder 2.8 x 0.5 mm	<b>61-8775.17</b>	36	2	0.008 kg

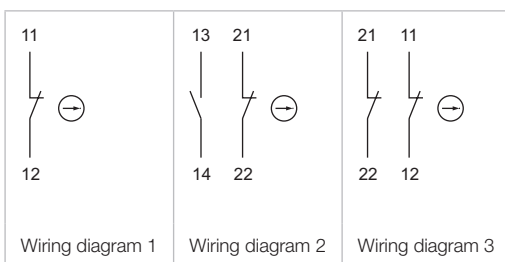
Contacts: NC = Normally closed, NO = Normally open  
 The component layouts you will find from page 666



**Switching element stop switch**

Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Component layout	Wiring diagram	Weight
 <p><b>Switching element for stop switch, foolproof</b></p>									
42 VAC/DC	0.1 A	Slow-make switching element	1 NC	Gold	Solder 2.8 x 0.5 mm	<b>61-8745.37</b>	35	1	0.008 kg
			2 NC	Gold	Solder 2.8 x 0.5 mm	<b>61-8755.37</b>	37	3	0.008 kg
			1 NC + 1 NO	Gold	Solder 2.8 x 0.5 mm	<b>61-8775.37</b>	36	2	0.008 kg

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

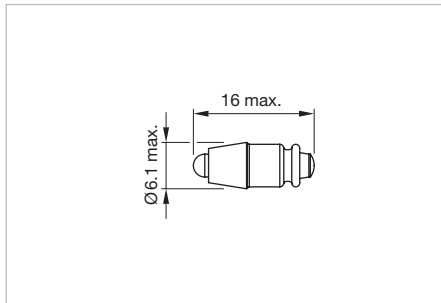


## Illumination


### Single-LED, T1 3/4 MG

#### Additional Information

- When using AC/DC types with AC operation, slight flickering can occur
- Luminous intensity data of the LEDs on direct voltage
- Electrical and optical data are measured at 25 °C
- The specified versions are built with a protection diode (half wave rectifier) in series and the LED
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination
- For supply voltages above 48V, a voltage reduction element (external series resistor or transformer) must be used
- Due to high surface temperatures, the surface resistors must be soldered directly to the terminals of the equipment (use a terminal plate)




Dimensions [mm]

LED colour	Operating voltage	Operation current	Lumi. intensity	Dom. wavelength	Part No.	Weight
 <p><b>Single-LED</b></p>						
red	6 VDC +10 %	15 mA ±15 %	350 mcd	630 nm	<b>10-2J06.3142</b>	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	<b>10-2J09.1062</b>	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	<b>10-2J12.1062</b>	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	330 mcd	630 nm	<b>10-2J13.1062</b>	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	200 mcd	630 nm	<b>10-2J19.1042</b>	0.002 kg
yellow	6 VDC +10 %	15 mA ±15 %	300 mcd	587 nm	<b>10-2J06.3144</b>	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	<b>10-2J09.1064</b>	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	<b>10-2J12.1064</b>	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	280 mcd	587 nm	<b>10-2J13.1064</b>	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	180 mcd	587 nm	<b>10-2J19.1044</b>	0.002 kg
green	6 VDC +10 %	7 mA ±15 %	1050 mcd	525 nm	<b>10-2J06.3145</b>	0.002 kg
	12 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	<b>10-2J09.1065</b>	0.002 kg
	24 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	<b>10-2J12.1065</b>	0.002 kg
	28 VAC/DC +10 %	4/7 mA ±15 %	1050 mcd	525 nm	<b>10-2J13.1065</b>	0.002 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	525 nm	<b>10-2J19.1045</b>	0.002 kg
blue	6 VDC +10 %	15 mA ±15 %	680 mcd	470 nm	<b>10-2J06.3146</b>	0.002 kg
	12 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	<b>10-2J09.1066</b>	0.002 kg
	24 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	<b>10-2J12.1066</b>	0.002 kg
	28 VAC/DC +10 %	7/14 mA ±15 %	650 mcd	470 nm	<b>10-2J13.1066</b>	0.002 kg
	48 VAC/DC +10 %	4/8 mA ±15 %	400 mcd	470 nm	<b>10-2J19.1046</b>	0.002 kg
white	6 VDC +10 %	6 mA ±15 %	900 mcd	x0.31/y0.32 nm	<b>10-2J06.3149</b>	0.002 kg
	12 VAC/DC +10 %	3/6 mA ±15 %	900 mcd	x0.31/y0.32 nm	<b>10-2J09.1069</b>	0.002 kg
	24 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	<b>10-2J12.1069</b>	0.002 kg
	28 VAC/DC +10 %	2.5/5 mA ±15 %	750 mcd	x0.31/y0.32 nm	<b>10-2J13.1069</b>	0.002 kg
	48 VAC/DC +10 %	2/4 mA ±15 %	600 mcd	x0.31/y0.32 nm	<b>10-2J19.1049</b>	0.002 kg




**Filament lamp, T1 3/4 MG**

Operating voltage	Operation current	Part No.	Weight
 <p><b>Filament lamp</b></p>			
6 VAC/DC	120 mA ±10 %	<b>10-1306.1349</b>	0.001 kg
6.3 VAC/DC	200 mA ±10 %	<b>10-1307.1369</b>	0.001 kg
12 VAC/DC	75 mA ±10 %	<b>10-1309.1309</b>	0.001 kg
14 VAC/DC	80 mA ±10 %	<b>10-1310.1319</b>	0.001 kg
18 VAC/DC	40 mA ±10 %	<b>10-1311.1249</b>	0.001 kg
24 VAC/DC	35 mA ±10 %	<b>10-1312.1229</b>	0.001 kg
	30 mA ±10 %	<b>10-1313.1209</b>	0.001 kg
36 VAC/DC	40 mA ±10 %	<b>10-1313.1249</b>	0.001 kg
	20 mA ±10 %	<b>10-1316.1179</b>	0.001 kg
48 VAC/DC	30 mA ±10 %	<b>10-1316.1209</b>	0.001 kg
	20 mA ±10 %	<b>10-1319.1179</b>	0.001 kg
	25 mA ±10 %	<b>10-1319.1199</b>	0.001 kg

**Series resistor**
**Additional Information**

- Only for filament lamp 48 VAC, 25 mA
- For lamp voltage reduction
- Keep to the country specific safety instructions
- Due to high surface temperatures, the surface resistors must be soldered directly to the terminals of the equipment (use a terminal plate)


Operating voltage	Resistance	Part No.	Weight
 <p><b>Series resistor</b></p>			
110 VAC	2.7 kOhm	<b>02-904.0</b>	0.003 kg
125 VAC	3.3 kOhm	<b>02-904.1</b>	0.003 kg
145 VAC	4.7 kOhm	<b>02-904.3</b>	0.003 kg
240 VAC	10 kOhm	<b>02-904.7</b>	0.003 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><b>Tool set</b></p>	
<b>K61-999.100</b>	0.048 kg


## Lens remover

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

## Lamp remover

### Additional Information

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

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