

# Series Swisstac – 55

**Characteristics**

The modular 16 mm Swisstac Series is particularly suited for:

- Raised design
- PCB mounting

The modular design of this series caters to a broad range of applications and combinations.

**Functions**

The series incorporates the following functions:

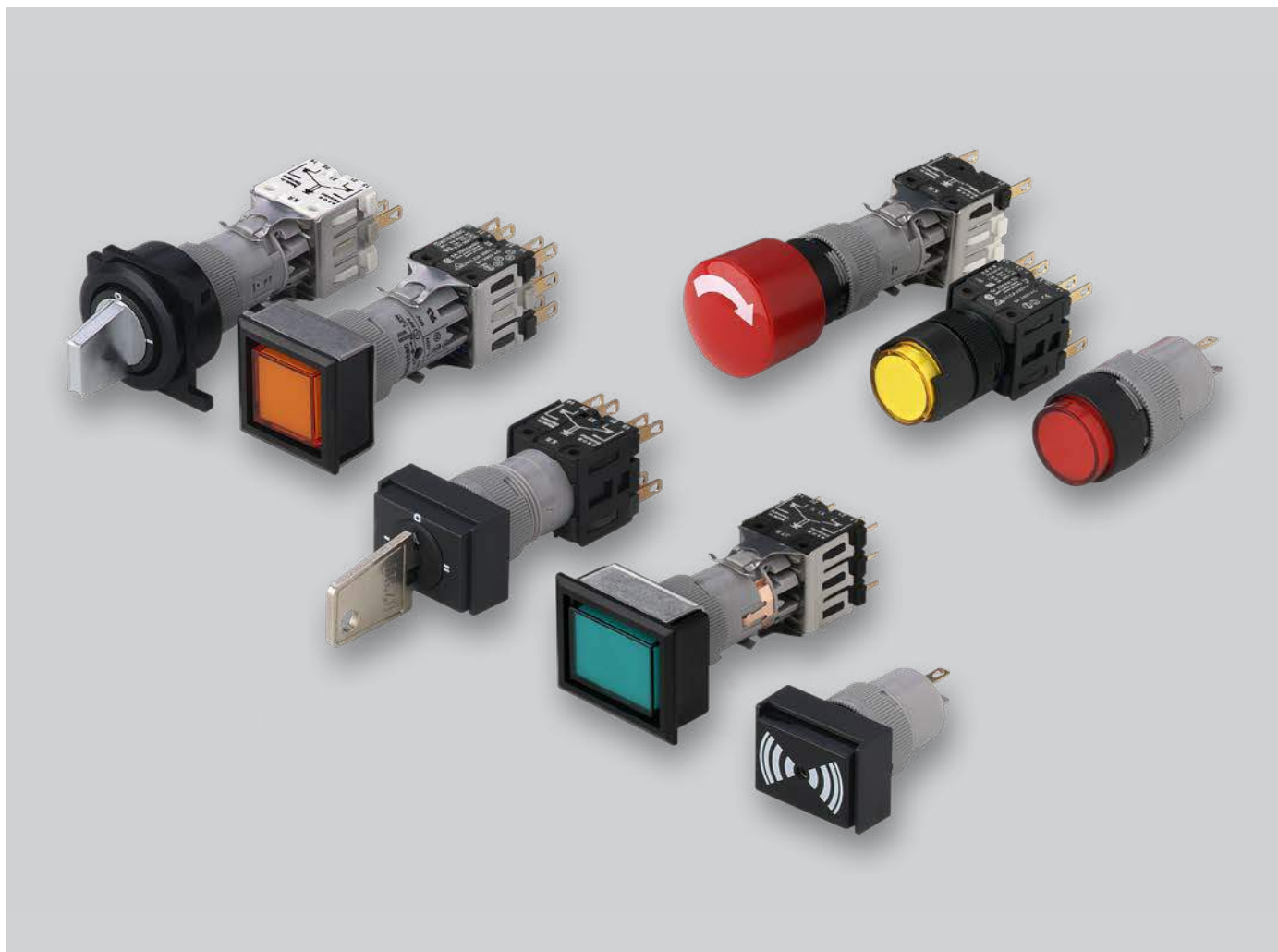
- Indicator
- Pushbutton
- Illuminated pushbutton
- E-STOP switch
- Stop switch
- Mushroom-head pushbutton
- Keylock switch
- Selector switch
- Buzzer

**Market segments**

The EAO Series Swisstac is especially suited for applications in the segments:

- Public transportation
- Machinery and Automation
- Construction machines and special-purpose vehicles
- Lifting and moving
- Panel building

Please refer to the EAO website to obtain detailed information regarding this series [www.products.eao.com](http://www.products.eao.com)  
Configure a product to your exact needs and request a quotation.





**Overview****Raised design**

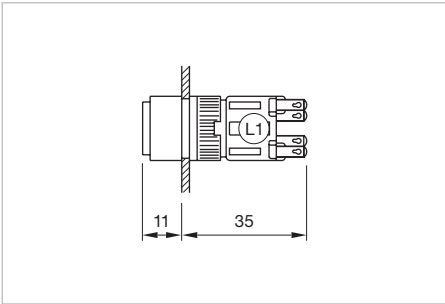
|                              |    |
|------------------------------|----|
| Indicator                    | 4  |
| Buzzer                       | 10 |
| Illuminated pushbutton       | 12 |
| Stop switch                  | 23 |
| Keylock switch               | 25 |
| Selector switch              | 50 |
| Illuminated push-pull button | 60 |

**Accessories** **61****Drawings** **88****Technical data** **89****Marking** **95****Application guidelines** **96****Index** **99**

Indicator



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm

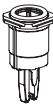
Equipment consisting of (schematic overview)



**Lens** page 61



**LED** page 82



**Actuator**



**Fixing nut**



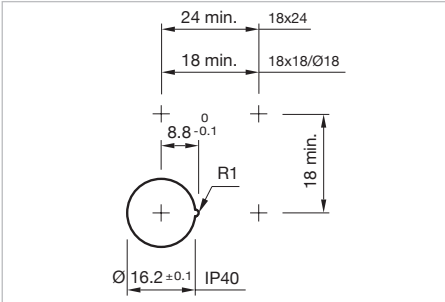
**Lamp element block** page 76

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.

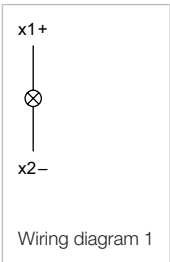
Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

| Front protection                                                                                                                             | Behind panel depth | Lamp socket | Part No.           | Wiring diagram | Weight   |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|--------------------|----------------|----------|
| <br><b>Indicator actuator, Front dimension 18 x 18 mm</b> |                    |             |                    |                |          |
| IP 40                                                                                                                                        | 35 mm              | T1 ¾ MG     | <b>690-4000-00</b> | 1              | 0.004 kg |
| IP 65                                                                                                                                        | 35 mm              | T1 ¾ MG     | <b>690-4000-W0</b> | 1              | 0.005 kg |
| <br><b>Indicator actuator, Front dimension 18 x 24 mm</b> |                    |             |                    |                |          |
| IP 40                                                                                                                                        | 35 mm              | T1 ¾ MG     | <b>690-6000-00</b> | 1              | 0.004 kg |
| IP 65                                                                                                                                        | 35 mm              | T1 ¾ MG     | <b>690-6000-W0</b> | 1              | 0.005 kg |
| <br><b>Indicator actuator, Front dimension Ø 18 mm</b>    |                    |             |                    |                |          |
| IP 40                                                                                                                                        | 35 mm              | T1 ¾ MG     | <b>690-2000-00</b> | 1              | 0.004 kg |
| IP 65                                                                                                                                        | 35 mm              | T1 ¾ MG     | <b>690-2000-W0</b> | 1              | 0.005 kg |



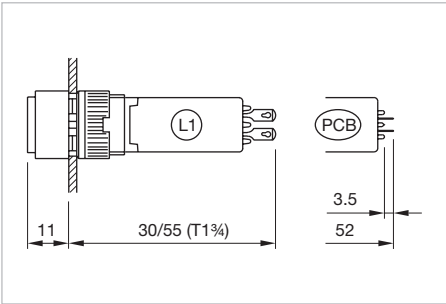
Indicator square 24 x 24 mm

Equipment consisting of (schematic overview)

|                                                                                   |                      |         |
|-----------------------------------------------------------------------------------|----------------------|---------|
|  | <b>Lens</b>          | page 62 |
|  | <b>Pressure ring</b> | page 69 |
|  | <b>Sealing bulb</b>  | page 69 |
|  | <b>Sealing ring</b>  | page 69 |
|  | <b>Front bezel</b>   | page 69 |
|  | <b>LED</b>           | page 82 |
|  | <b>Actuator</b>      |         |
|  | <b>Fixing nut</b>    |         |

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

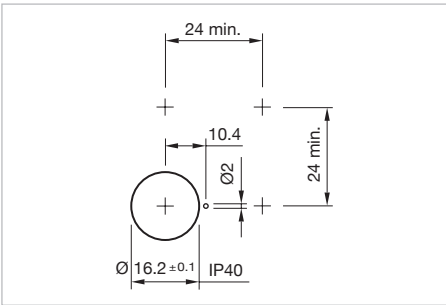
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal



Product can differ from the current configuration.

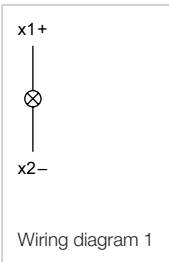


Mounting cut-outs [mm]

Additional Information

- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00
- Protection degree IP 40/IP 65 is determined by front bezel and lens

| Behind panel depth                                                                  | Terminal                                                                   | Lamp socket | Part No.    | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------|-------------|----------------|----------|
|  | <b>Indicator actuator square, flush design, Front dimension 24 x 24 mm</b> |             |             |                |          |
| 30 mm                                                                               | Solder 2.8 x 0.5 mm                                                        | T1 ¾ MG     | 990-.000-K0 | 1              | 0.004 kg |
| 52 mm                                                                               | PCB                                                                        | T1 ¾ MG     | 990-.000-0P | 1              | 0.007 kg |

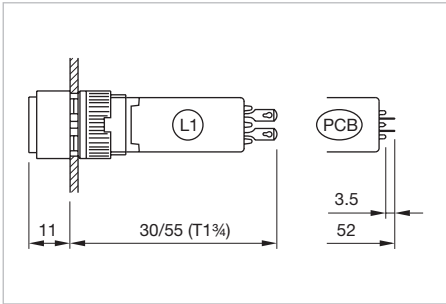


# 55 Raised design

## Indicator square 18 x 18 mm



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)



**Lens** page 62



**Front bezel** page 69



**LED** page 82



**Actuator**



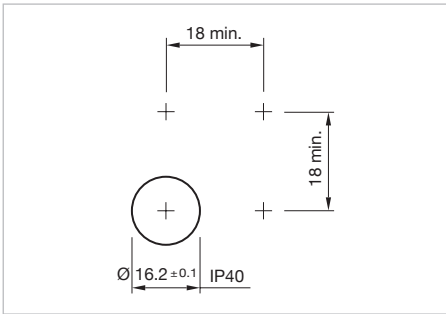
**Fixing nut**

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.

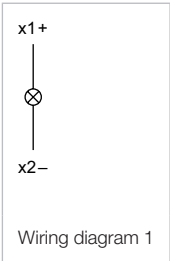
### Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- Protection degree IP 40/IP 65 is determined by front bezel and lens



Mounting cut-outs [mm]

| Behind panel depth                                                                                                                                                | Terminal            | Lamp socket | Part No.    | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|----------------|----------|
| <br><b>Indicator actuator square, flush design, Front dimension 18 x 18 mm</b> |                     |             |             |                |          |
| 30 mm                                                                                                                                                             | Solder 2.8 x 0.5 mm | T1 3/4 MG   | 990-.000-K0 | 1              | 0.004 kg |
| 52 mm                                                                                                                                                             | PCB                 | T1 3/4 MG   | 990-.000-0P | 1              | 0.007 kg |



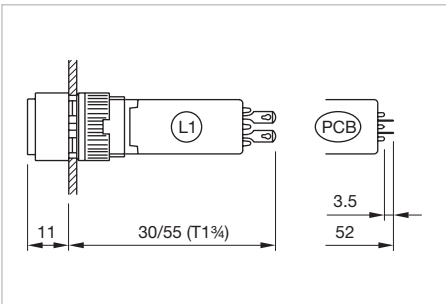
Indicator rectancular 18 x 24 mm

Equipment consisting of (schematic overview)

|                                                                                   |                    |         |
|-----------------------------------------------------------------------------------|--------------------|---------|
|  | <b>Lens</b>        | page 62 |
|  | <b>Front bezel</b> | page 69 |
|  | <b>LED</b>         | page 82 |
|  | <b>Actuator</b>    |         |
|  | <b>Fixing nut</b>  |         |

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.



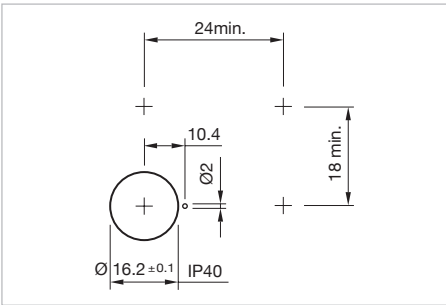
Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal



Product can differ from the current configuration.

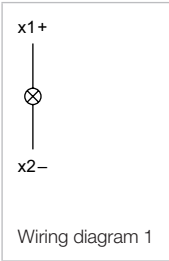
Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00
- Protection degree IP 40/IP 65 is determined by front bezel and lens



Mounting cut-outs [mm]

| Behind panel depth                                                                  | Terminal                                                          | Lamp socket | Part No.           | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------|--------------------|----------------|----------|
|  | <b>Indicator actuator rectangular, Front dimension 18 x 24 mm</b> |             |                    |                |          |
| 30 mm                                                                               | Solder 2.8 x 0.5 mm                                               | T1 ¾ MG     | <b>990-.000-K0</b> | 1              | 0.004 kg |
| 52 mm                                                                               | PCB                                                               | T1 ¾ MG     | <b>990-.000-0P</b> | 1              | 0.007 kg |

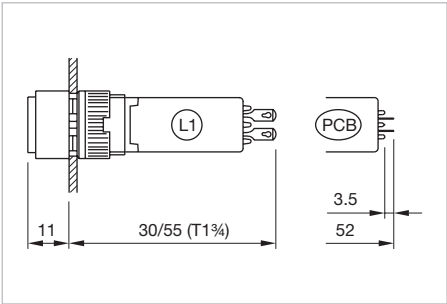


# 55 Raised design

Indicator round Ø 24 mm



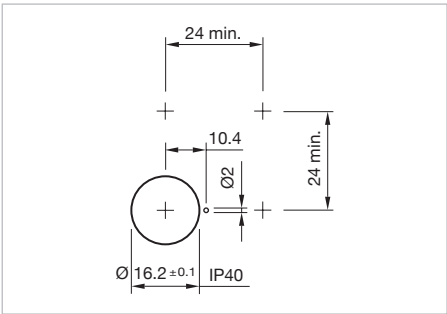
Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Additional Information

- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00
- Protection degree IP 40/IP 65 is determined by front bezel and lens



Mounting cut-outs [mm]

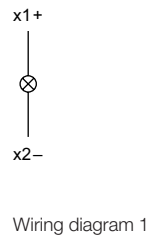
### Equipment consisting of (schematic overview)

|  |                      |         |
|--|----------------------|---------|
|  | <b>Lens</b>          | page 62 |
|  | <b>Pressure ring</b> | Page 73 |
|  | <b>Sealing bulb</b>  | Page 73 |
|  | <b>Sealing ring</b>  | Page 73 |
|  | <b>Front bezel</b>   | page 69 |
|  | <b>LED</b>           | page 82 |
|  | <b>Actuator</b>      |         |
|  | <b>Fixing nut</b>    |         |

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.

| Behind panel depth                                                                                                                              | Terminal            | Lamp socket | Part No.           | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|--------------------|----------------|----------|
| <br><b>Indicator actuator round, Front dimension Ø 24 mm</b> |                     |             |                    |                |          |
| 30 mm                                                                                                                                           | Solder 2.8 x 0.5 mm | T1 ¾ MG     | <b>990-.000-K0</b> | 1              | 0.004 kg |
| 52 mm                                                                                                                                           | PCB                 | T1 ¾ MG     | <b>990-.000-0P</b> | 1              | 0.007 kg |





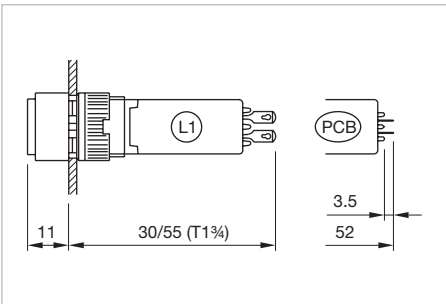
Indicator round Ø 18 mm

Equipment consisting of (schematic overview)

|                                                                                   |                    |         |
|-----------------------------------------------------------------------------------|--------------------|---------|
|  | <b>Lens</b>        | page 62 |
|  | <b>Front bezel</b> | page 69 |
|  | <b>LED</b>         | page 82 |
|  | <b>Actuator</b>    |         |
|  | <b>Fixing nut</b>  |         |

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

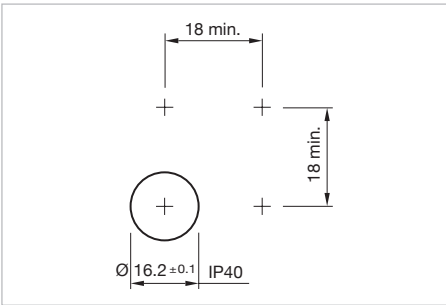
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal



Product can differ from the current configuration.

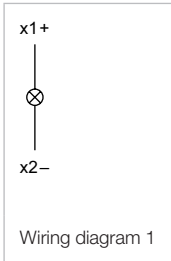


Mounting cut-outs [mm]

Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- Protection degree IP 40/IP 65 is determined by front bezel and lens

| Behind panel depth                                                                                                                              | Terminal            | Lamp socket | Part No.           | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|--------------------|----------------|----------|
| <br><b>Indicator actuator round, Front dimension Ø 18 mm</b> |                     |             |                    |                |          |
| 30 mm                                                                                                                                           | Solder 2.8 x 0.5 mm | T1 ¾ MG     | <b>990-.000-K0</b> | 1              | 0.004 kg |
| 52 mm                                                                                                                                           | PCB                 | T1 ¾ MG     | <b>990-.000-0P</b> | 1              | 0.007 kg |

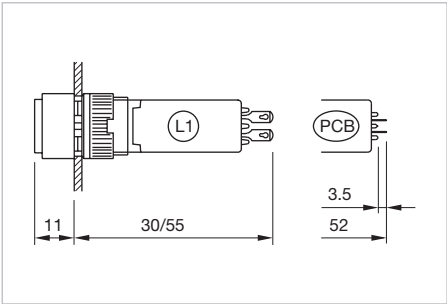


# 55 Raised design

Buzzer square 24 x 24 mm, IP 40



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)



**Buzzer element** page 87



**Front bezel** page 88



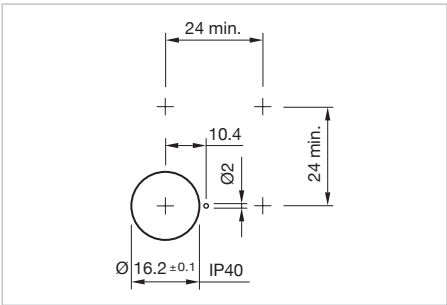
**Actuator**



**Fixing nut**

### Additional Information

- The buzzer 55 mm fits to the PCB plug-in base and multi plug housing

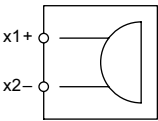


Mounting cut-outs [mm]

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.

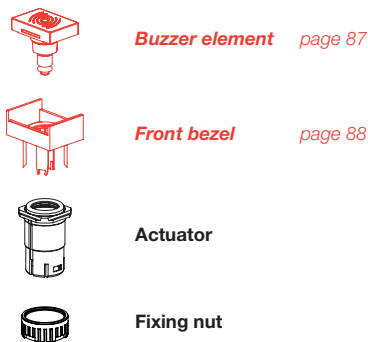
| Behind panel depth                                                                                                                               | Terminal            | Part No.    | Wiring diagram | Weight   |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|----------------|----------|
| <br><b>Buzzer actuator square, Front dimension 24 x 24 mm</b> |                     |             |                |          |
| 30 mm                                                                                                                                            | Solder 2.8 x 0.5 mm | 970-.000-K0 | 1              | 0.004 kg |
| 52 mm                                                                                                                                            | PCB                 | 970-.000-0P | 1              | 0.007 kg |
| 55 mm                                                                                                                                            | Solder 2.8 x 0.5 mm | 970-.000-00 | 1              | 0.007 kg |



Wiring diagram 1

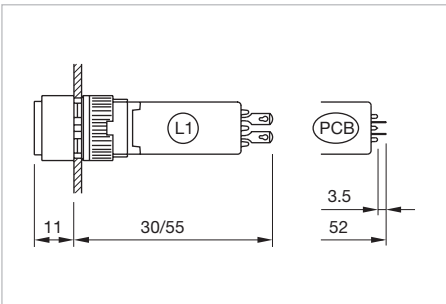
Buzzer rectangular 18 x 24 mm, IP 40

Equipment consisting of (schematic overview)



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

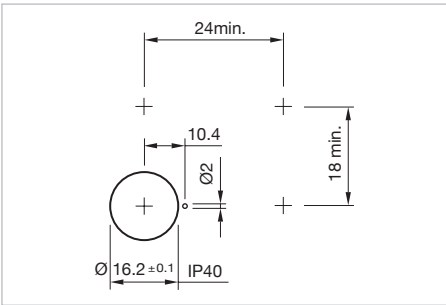
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal



Product can differ from the current configuration.

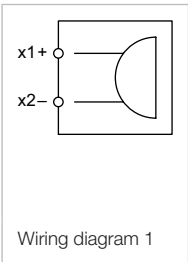


Mounting cut-outs [mm]

Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- The buzzer 55 mm fits to the PCB plug-in base and multi plug housing

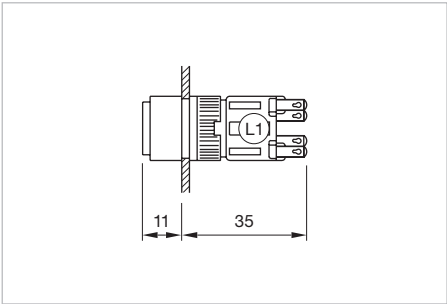
| Behind panel depth                                                                                                                                    | Terminal            | Part No.    | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|----------------|----------|
| <br><b>Buzzer actuator rectangular, Front dimension 18 x 24 mm</b> |                     |             |                |          |
| 30 mm                                                                                                                                                 | Solder 2.8 x 0.5 mm | 970-.000-K0 | 1              | 0.004 kg |
| 52 mm                                                                                                                                                 | PCB                 | 970-.000-0P | 1              | 0.007 kg |
| 55 mm                                                                                                                                                 | Solder 2.8 x 0.5 mm | 970-.000-00 | 1              | 0.007 kg |



Illuminated pushbutton



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,

Equipment consisting of (schematic overview)



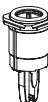
**Lens** page 61



**Front bezel** page 69



**LED** page 82



**Actuator**



**Fixing nut**



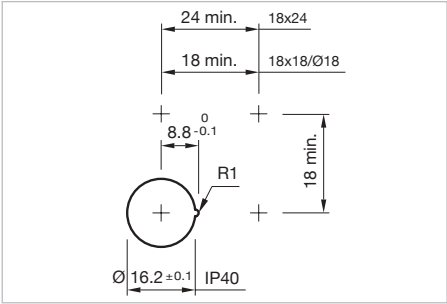
**Switching element** page 76

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.

Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00

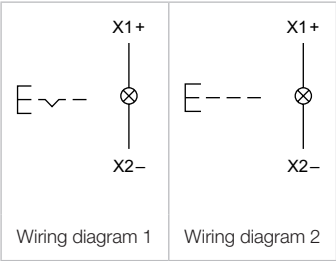


Mounting cut-outs [mm]

| Product attribute                                                                                                                                         | Front protection | Behind panel depth | Switching action | Lamp socket | Part No.           | Wiring diagram | Weight   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|------------------|-------------|--------------------|----------------|----------|
| <br><b>Illuminated pushbutton actuator, Front dimension 18 x 18 mm</b> |                  |                    |                  |             |                    |                |          |
| Maintain to momentary action is switchable, reversible                                                                                                    | IP 40            | 35 mm              | C - B            | T1 ¾ MG     | <b>600-4000-00</b> | 1              | 0.004 kg |
|                                                                                                                                                           | IP 40            | 35 mm              | B                | T1 ¾ MG     | <b>680-4000-00</b> | 2              | 0.004 kg |
| Maintain to momentary action is switchable, reversible                                                                                                    | IP 65            | 35 mm              | C - B            | T1 ¾ MG     | <b>600-4000-W0</b> | 1              | 0.005 kg |
|                                                                                                                                                           | IP 65            | 35 mm              | B                | T1 ¾ MG     | <b>680-4000-W0</b> | 2              | 0.005 kg |
| <br><b>Illuminated pushbutton actuator, Front dimension 18 x 24 mm</b> |                  |                    |                  |             |                    |                |          |
| Maintain to momentary action is switchable, reversible                                                                                                    | IP 40            | 35 mm              | C - B            | T1 ¾ MG     | <b>600-6000-00</b> | 1              | 0.004 kg |
|                                                                                                                                                           | IP 40            | 35 mm              | B                | T1 ¾ MG     | <b>680-6000-00</b> | 2              | 0.004 kg |
| Maintain to momentary action is switchable, reversible                                                                                                    | IP 65            | 35 mm              | C - B            | T1 ¾ MG     | <b>600-6000-W0</b> | 1              | 0.005 kg |
|                                                                                                                                                           | IP 65            | 35 mm              | B                | T1 ¾ MG     | <b>680-6000-W0</b> | 2              | 0.005 kg |

| Product attribute                                                                                                                                                | Front protection | Behind panel depth | Switching action | Lamp socket | Part No.    | Wiring diagram | Weight   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|------------------|-------------|-------------|----------------|----------|
| <div></div> <div>Illuminated pushbutton actuator, Front dimension Ø 18 mm</div> |                  |                    |                  |             |             |                |          |
| Maintain to momentary action is switchable, reversible                                                                                                           | IP 40            | 35 mm              | C - B            | T1 ¼ MG     | 600-2000-00 | 1              | 0.004 kg |
|                                                                                                                                                                  | IP 40            | 35 mm              | B                | T1 ¼ MG     | 680-2000-00 | 2              | 0.004 kg |
| Maintain to momentary action is switchable, reversible                                                                                                           | IP 65            | 35 mm              | C - B            | T1 ¼ MG     | 600-2000-W0 | 1              | 0.005 kg |
|                                                                                                                                                                  | IP 65            | 35 mm              | B                | T1 ¼ MG     | 680-2000-W0 | 2              | 0.005 kg |

Switching action: B = Momentary, C = Maintained

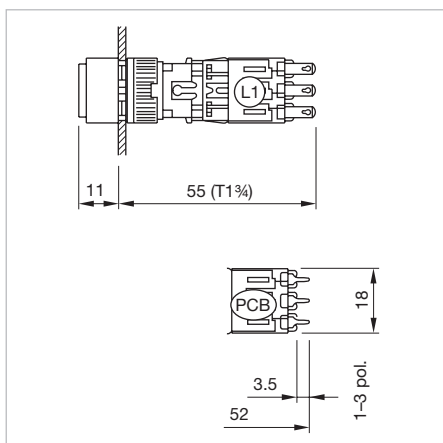


# 55 Raised design

## Illuminated pushbutton square 24 x 24 mm



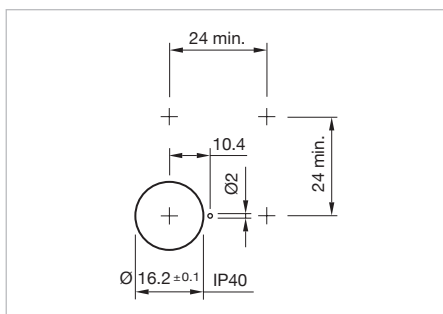
Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

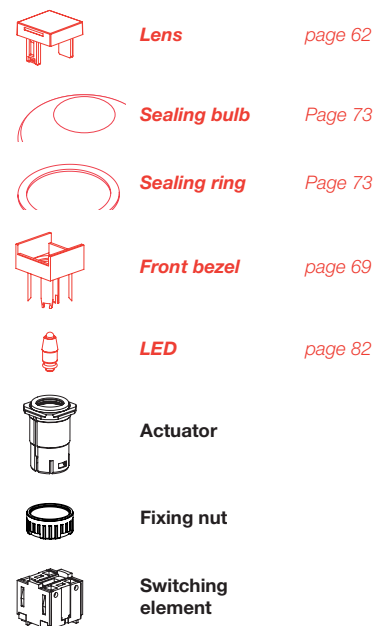
### Additional Information

- Protection degree IP 40/IP 65 is determined by front bezel and lens
- Maintain to momentary action is switchable, reversible
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

### Equipment consisting of (schematic overview)

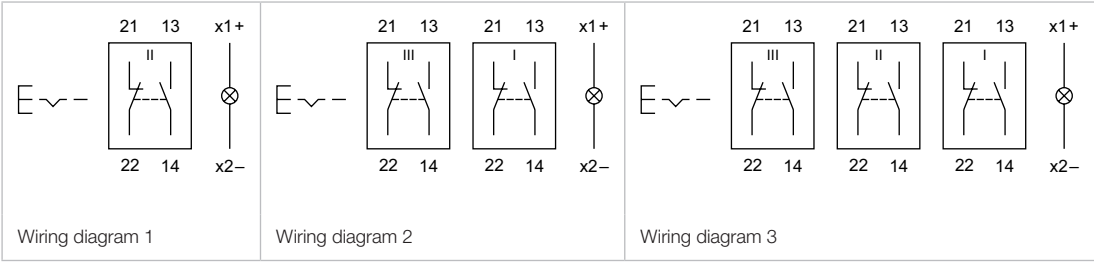


Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

| Switching system                                                                                                                                          | Behind panel depth | Contacts    | Switching action | Lamp socket | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|------------------|-------------|---------------------|--------------------|------------------|----------------|----------|
| <br>Illuminated pushbutton actuator square, Front dimension 24 x 24 mm | 52 mm              | 1 NC + 1 NO | C - B            | T1 ¼ MG     | PCB                 | <b>901F.000-0P</b> | 1                | 1              | 0.013 kg |
|                                                                                                                                                           |                    | 2 NC + 2 NO | C - B            | T1 ¼ MG     | PCB                 | <b>902F.000-0P</b> | 1                | 2              | 0.014 kg |
|                                                                                                                                                           |                    | 3 NC + 3 NO | C - B            | T1 ¼ MG     | PCB                 | <b>903F.000-0P</b> | 1                | 3              | 0.014 kg |
|                                                                                                                                                           | 55 mm              | 1 NC + 1 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>901F.000-00</b> |                  | 1              | 0.013 kg |
|                                                                                                                                                           |                    | 2 NC + 2 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>902F.000-00</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                           |                    | 3 NC + 3 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>903F.000-00</b> |                  | 3              | 0.015 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: B = Momentary, C = Maintained  
The component layouts you will find from page 107

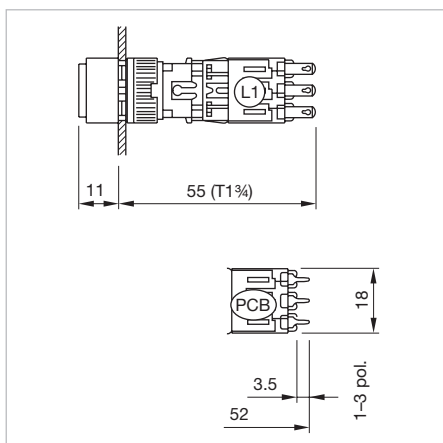


# 55 Raised design

## Illuminated pushbutton square 18 x 18 mm



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)



**Lens**

page 62



**Front bezel**

page 69



**LED**

page 82



**Actuator**



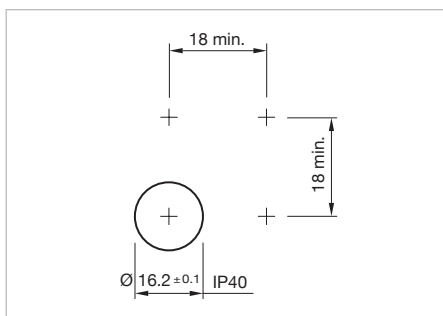
**Fixing nut**



**Switching element**

### Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- Protection degree IP 40/IP 65 is determined by front bezel and lens
- Maintain to momentary action is switchable, reversible



Mounting cut-outs [mm]

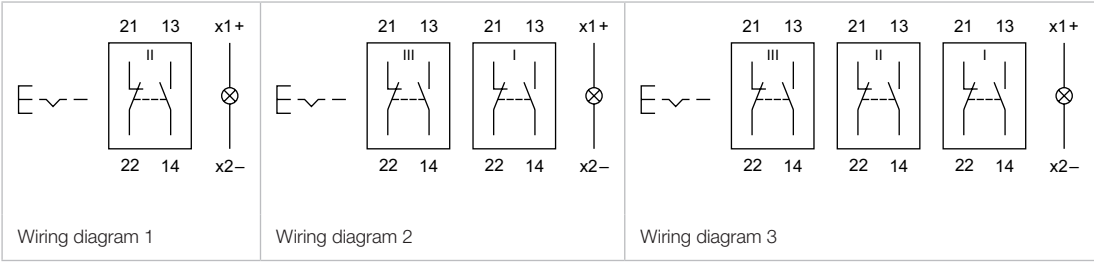
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

| Switching system                                                                                                                                              | Behind panel depth | Contacts    | Switching action | Lamp socket | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|------------------|-------------|---------------------|--------------------|------------------|----------------|----------|
|  <b>Illuminated pushbutton actuator square, Front dimension 18 x 18 mm</b> |                    |             |                  |             |                     |                    |                  |                |          |
| Snap-action switching element                                                                                                                                 | 52 mm              | 1 NC + 1 NO | C - B            | T1 1/4 MG   | PCB                 | <b>901F.000-0P</b> | 1                | 1              | 0.013 kg |
|                                                                                                                                                               |                    | 2 NC + 2 NO | C - B            | T1 1/4 MG   | PCB                 | <b>902F.000-0P</b> | 1                | 2              | 0.014 kg |
|                                                                                                                                                               |                    | 3 NC + 3 NO | C - B            | T1 1/4 MG   | PCB                 | <b>903F.000-0P</b> | 1                | 3              | 0.014 kg |
|                                                                                                                                                               | 55 mm              | 1 NC + 1 NO | C - B            | T1 1/4 MG   | Solder 2.8 x 0.5 mm | <b>901F.000-00</b> |                  | 1              | 0.013 kg |
|                                                                                                                                                               |                    | 2 NC + 2 NO | C - B            | T1 1/4 MG   | Solder 2.8 x 0.5 mm | <b>902F.000-00</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                               |                    | 3 NC + 3 NO | C - B            | T1 1/4 MG   | Solder 2.8 x 0.5 mm | <b>903F.000-00</b> |                  | 3              | 0.015 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: B = Momentary, C = Maintained  
The component layouts you will find from page 107



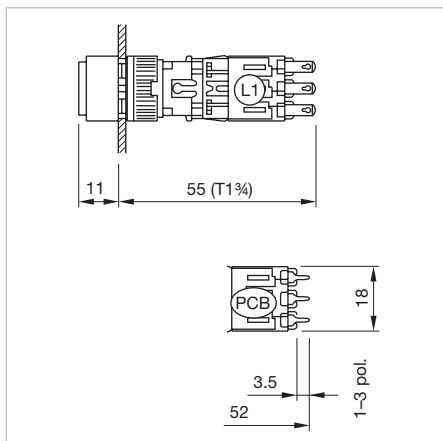


# 55 Raised design

## Illuminated pushbutton rectangular 18 x 24 mm

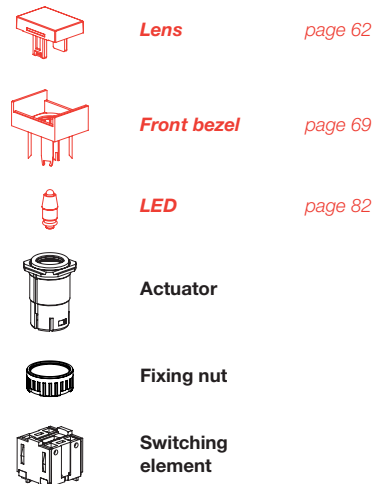


Product can differ from the current configuration.



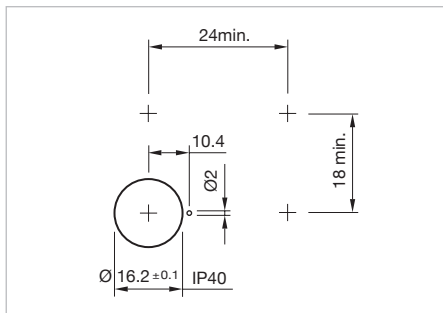
Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)



### Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- Protection degree IP 40/IP 65 is determined by front bezel and lens
- Maintain to momentary action is switchable, reversible
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



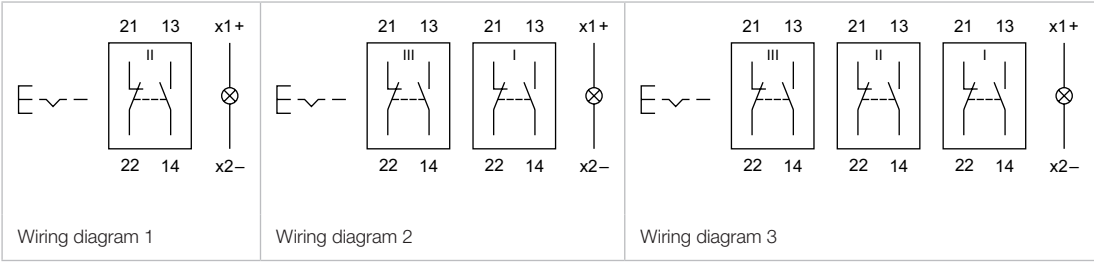
Mounting cut-outs [mm]

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 system                                                                                                                                                   | Behind panel depth | Contacts    | Switching action | Lamp socket | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|------------------|-------------|---------------------|--------------------|------------------|----------------|----------|
|  <b>Illuminated pushbutton actuator rectangular, Front dimension 18 x 24 mm</b> |                    |             |                  |             |                     |                    |                  |                |          |
| Snap-action switching element                                                                                                                                      | 52 mm              | 1 NC + 1 NO | C - B            | T1 1/4 MG   | PCB                 | <b>901F.000-0P</b> | 1                | 1              | 0.013 kg |
|                                                                                                                                                                    |                    | 2 NC + 2 NO | C - B            | T1 1/4 MG   | PCB                 | <b>902F.000-0P</b> | 1                | 2              | 0.014 kg |
|                                                                                                                                                                    |                    | 3 NC + 3 NO | C - B            | T1 1/4 MG   | PCB                 | <b>903F.000-0P</b> | 1                | 3              | 0.014 kg |
|                                                                                                                                                                    | 55 mm              | 1 NC + 1 NO | C - B            | T1 1/4 MG   | Solder 2.8 x 0.5 mm | <b>901F.000-00</b> |                  | 1              | 0.013 kg |
|                                                                                                                                                                    |                    | 2 NC + 2 NO | C - B            | T1 1/4 MG   | Solder 2.8 x 0.5 mm | <b>902F.000-00</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                    |                    | 3 NC + 3 NO | C - B            | T1 1/4 MG   | Solder 2.8 x 0.5 mm | <b>903F.000-00</b> |                  | 3              | 0.015 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: B = Momentary, C = Maintained  
The component layouts you will find from page 107

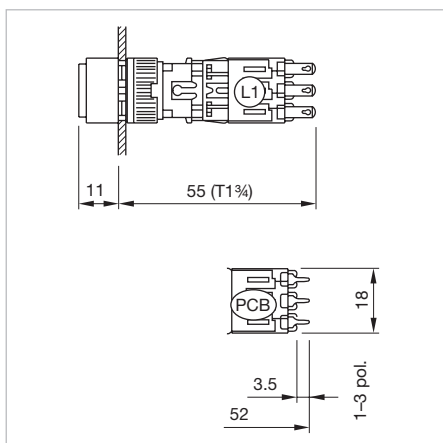


# 55 Raised design

## Illuminated pushbutton round Ø 24 mm



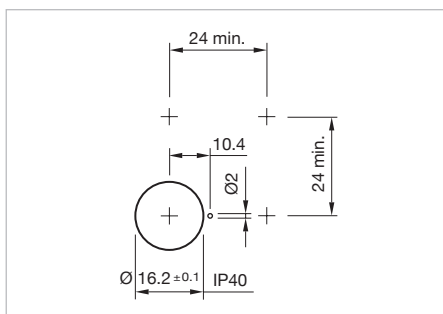
Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Additional Information

- Protection degree IP 40/IP 65 is determined by front bezel and lens
- Maintain to momentary action is switchable, reversible
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

### Equipment consisting of (schematic overview)

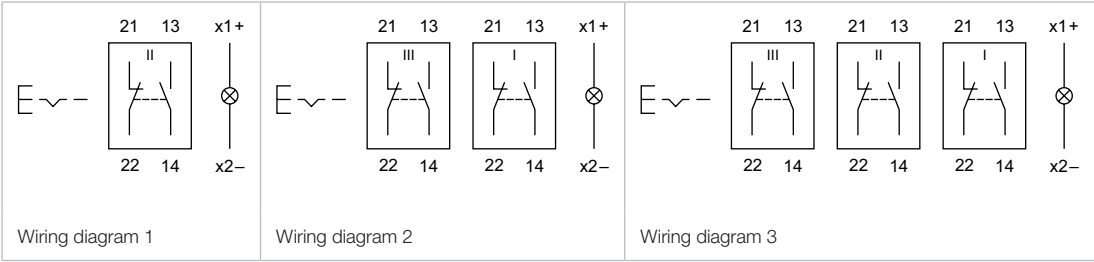
|  |                          |         |
|--|--------------------------|---------|
|  | <b>Lens</b>              | page 62 |
|  | <b>Sealing bulb</b>      | Page 73 |
|  | <b>Sealing ring</b>      | Page 73 |
|  | <b>Front bezel</b>       | page 69 |
|  | <b>LED</b>               | page 82 |
|  | <b>Actuator</b>          |         |
|  | <b>Fixing nut</b>        |         |
|  | <b>Switching element</b> |         |

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 system                                                      | Behind panel depth | Contacts    | Switching action | Lamp socket | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|-----------------------------------------------------------------------|--------------------|-------------|------------------|-------------|---------------------|--------------------|------------------|----------------|----------|
| <b>Illuminated pushbutton actuator round, Front dimension Ø 24 mm</b> |                    |             |                  |             |                     |                    |                  |                |          |
| Snap-action switching element                                         | 52 mm              | 1 NC + 1 NO | C - B            | T1 ¼ MG     | PCB                 | <b>901F.000-0P</b> | 1                | 1              | 0.013 kg |
|                                                                       |                    | 2 NC + 2 NO | C - B            | T1 ¼ MG     | PCB                 | <b>902F.000-0P</b> | 1                | 2              | 0.014 kg |
|                                                                       |                    | 3 NC + 3 NO | C - B            | T1 ¼ MG     | PCB                 | <b>903F.000-0P</b> | 1                | 3              | 0.014 kg |
|                                                                       | 55 mm              | 1 NC + 1 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>901F.000-00</b> |                  | 1              | 0.013 kg |
|                                                                       |                    | 2 NC + 2 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>902F.000-00</b> |                  | 2              | 0.014 kg |
|                                                                       |                    | 3 NC + 3 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>903F.000-00</b> |                  | 3              | 0.015 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: B = Momentary, C = Maintained  
The component layouts you will find from page 107

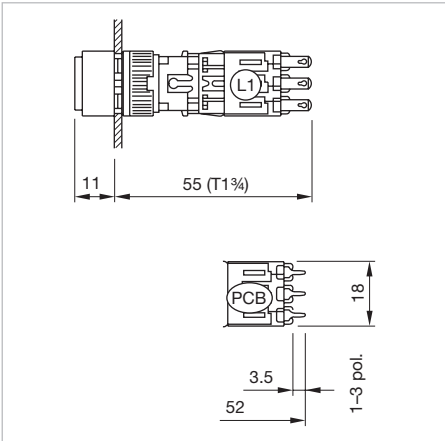


55 Raised design

Illuminated pushbutton round Ø 18 mm



Product can differ from the current configuration.

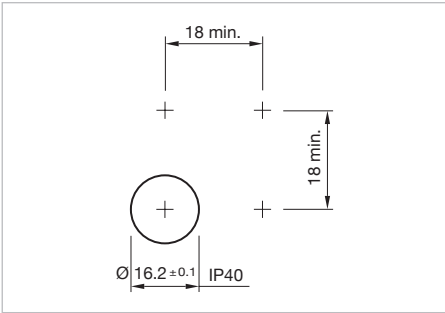


Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

Equipment consisting of (schematic overview)

|  |                          |         |
|--|--------------------------|---------|
|  | <b>Lens</b>              | page 62 |
|  | <b>Front bezel</b>       | page 69 |
|  | <b>LED</b>               | page 82 |
|  | <b>Actuator</b>          |         |
|  | <b>Fixing nut</b>        |         |
|  | <b>Switching element</b> |         |

- Additional Information**
- For the flush design please order the additional front bezel set, see chapter «Accessories»
  - Protection degree IP 40/IP 65 is determined by front bezel and lens
  - Maintain to momentary action is switchable, reversible



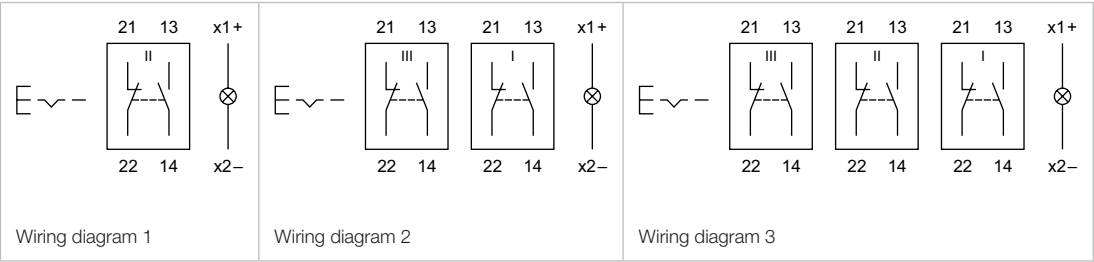
Mounting cut-outs [mm]

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 system                                                      | Behind panel depth | Contacts    | Switching action | Lamp socket | Terminal            | Part No.           | Compo-<br>nent layout | Wiring<br>diagram | Weight   |
|-----------------------------------------------------------------------|--------------------|-------------|------------------|-------------|---------------------|--------------------|-----------------------|-------------------|----------|
|                                                                       |                    |             |                  |             |                     |                    |                       |                   |          |
| <b>Illuminated pushbutton actuator round, Front dimension Ø 18 mm</b> |                    |             |                  |             |                     |                    |                       |                   |          |
| Snap-action switching element                                         | 52 mm              | 1 NC + 1 NO | C - B            | T1 ¼ MG     | PCB                 | <b>901F.000-0P</b> | 1                     | 1                 | 0.013 kg |
|                                                                       |                    | 2 NC + 2 NO | C - B2           | T1 ¼ MG     | PCB                 | <b>902F.000-0P</b> | 1                     | 2                 | 0.014 kg |
|                                                                       |                    | 3 NC + 3 NO | C - B            | T1 ¼ MG     | PCB                 | <b>903F.000-0P</b> | 1                     | 3                 | 0.014 kg |
|                                                                       | 55 mm              | 1 NC + 1 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>901F.000-00</b> |                       | 1                 | 0.013 kg |
|                                                                       |                    | 2 NC + 2 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>902F.000-00</b> |                       | 2                 | 0.014 kg |
|                                                                       |                    | 3 NC + 3 NO | C - B            | T1 ¼ MG     | Solder 2.8 x 0.5 mm | <b>903F.000-00</b> |                       | 3                 | 0.015 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: B = Momentary, C = Maintained  
The component layouts you will find from page 107



## Stop switch

### Equipment consisting of (schematic overview)



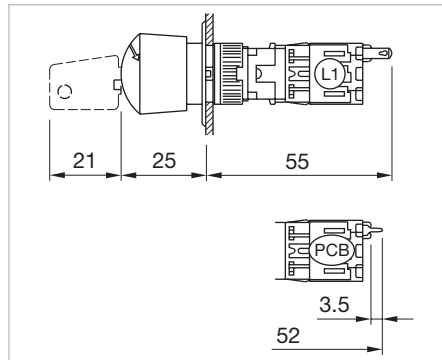
Actuator



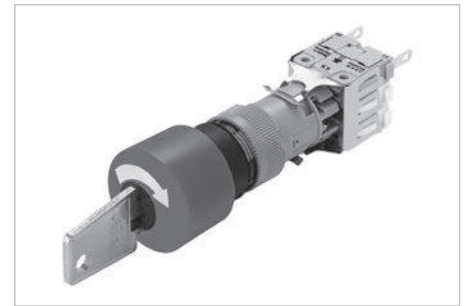
Fixing nut



Switching element

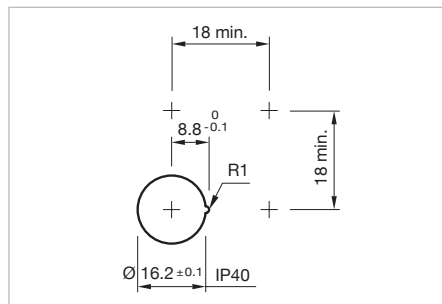


Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal



Product can differ from the current configuration.

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



Mounting cut-outs [mm]

### Additional Information

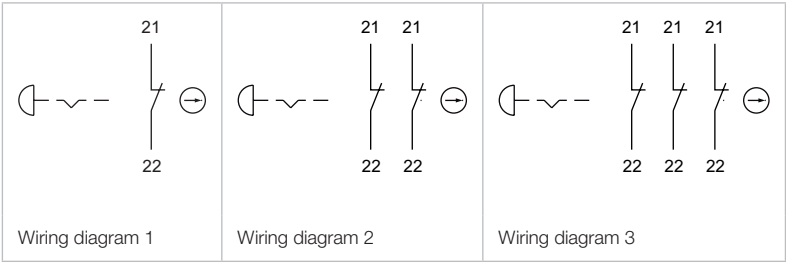
- Lens plastic red, translucent mushroom
- Standard lock B2 390
- Further lock numbers see «Technical data»
- Use the location strip no. 260-0020-00 for anti-twisting of the front bezel. At momentary position the overturning force is max. 60 Ncm.

| Product attribute                                                                   | Front protection | Switching system            | Behind panel depth | Contacts    | Terminal            | Part No.    | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------|------------------|-----------------------------|--------------------|-------------|---------------------|-------------|----------------|----------|
|  |                  |                             |                    |             |                     |             |                |          |
| Stop switch, Front dimension Ø 24 mm                                                |                  |                             |                    |             |                     |             |                |          |
| Twist to unlock clockwise                                                           | IP 40            | Slow-make switching element | 55 mm              | 1 NC        | Solder 2.8 x 0.5 mm | 951F2000-00 | 1              | 0.018 kg |
|                                                                                     |                  |                             |                    | 2 NC        | Solder 2.8 x 0.5 mm | 952F2000-00 | 2              | 0.019 kg |
|                                                                                     |                  |                             |                    | 3 NC        | Solder 2.8 x 0.5 mm | 953F2000-00 | 3              | 0.020 kg |
|  |                  |                             |                    |             |                     |             |                |          |
| Stop switch, Front dimension Ø 24 mm                                                |                  |                             |                    |             |                     |             |                |          |
| Twist to unlock clockwise                                                           | IP 65            | Slow-make switching element | 55 mm              | 1 NC        | Solder 2.8 x 0.5 mm | 951F2000-W0 | 1              | 0.018 kg |
|                                                                                     |                  |                             |                    | 2 NC        | Solder 2.8 x 0.5 mm | 952F2000-W0 | 2              | 0.019 kg |
|                                                                                     |                  |                             |                    | 3 NC        | Solder 2.8 x 0.5 mm | 953F2000-W0 | 3              | 0.020 kg |
|  |                  |                             |                    |             |                     |             |                |          |
| Stop switch, Front dimension Ø 27 mm                                                |                  |                             |                    |             |                     |             |                |          |
| Twist to unlock clockwise, position indication ring black                           | IP65             | Slow-make switching element | 41 mm              | 1 NC        | Solder 2.8 x 0.5 mm | 551-8000-W0 | 1              | 0.025 kg |
|                                                                                     |                  |                             |                    | 2 NC        | Solder 2.8 x 0.5 mm | 552-8000-W0 | 2              | 0.025 kg |
|                                                                                     |                  |                             |                    | 1 NC + 1 NO | Solder 2.8 x 0.5 mm | 553-8000-W0 | 3              | 0.025 kg |

55 Raised design

| Product attribute                                                                                                               | Front protection | Switching system            | Behind panel depth | Contacts | Terminal            | Part No.           | Wiring diagram | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------|--------------------|----------|---------------------|--------------------|----------------|----------|
| <br><b>Stop switch, Front dimension Ø 24 mm</b> |                  |                             |                    |          |                     |                    |                |          |
| Key to unlock clockwise                                                                                                         | IP 40            | Slow-make switching element | 55 mm              | 1 NC     | Solder 2.8 x 0.5 mm | <b>961F2401-00</b> | 1              | 0.030 kg |
|                                                                                                                                 |                  |                             |                    | 2 NC     | Solder 2.8 x 0.5 mm | <b>962F2401-00</b> | 2              | 0.031 kg |
|                                                                                                                                 |                  |                             |                    | 3 NC     | Solder 2.8 x 0.5 mm | <b>963F2401-00</b> | 3              | 0.032 kg |
| <br><b>Stop switch, Front dimension Ø 24 mm</b> |                  |                             |                    |          |                     |                    |                |          |
| Key to unlock clockwise                                                                                                         | IP 65            | Slow-make switching element | 55 mm              | 1 NC     | Solder 2.8 x 0.5 mm | <b>961F2401-W0</b> | 1              | 0.030 kg |
|                                                                                                                                 |                  |                             |                    | 2 NC     | Solder 2.8 x 0.5 mm | <b>962F2401-W0</b> | 2              | 0.031 kg |
|                                                                                                                                 |                  |                             |                    | 3 NC     | Solder 2.8 x 0.5 mm | <b>963F2401-W0</b> | 3              | 0.032 kg |
| <br><b>Stop switch, Front dimension Ø 27 mm</b> |                  |                             |                    |          |                     |                    |                |          |
| Key to unlock clockwise, position indication ring black                                                                         | IP 65            | Slow-make switching element | 41 mm              | 2 NC     | Solder 2.8 x 0.5 mm | <b>562-8101-W0</b> | 2              | 0.047 kg |

Contacts: NC = Normally closed  
The component layouts you will find from page 107





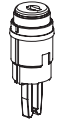
**Keylock switch 2 positions square 24 x 24 mm**

**Equipment consisting of (schematic overview)**



**Front cap**

page 84



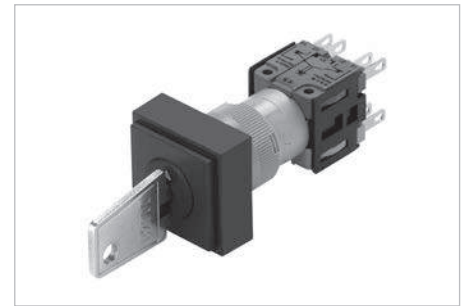
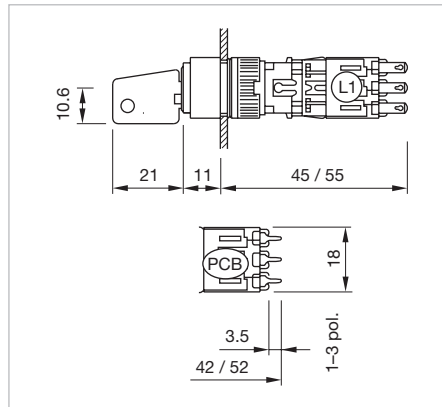
**Actuator**



**Fixing nut**



**Switching element**

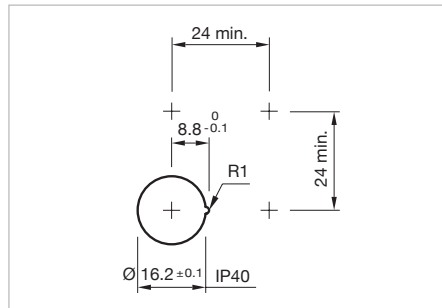


Product can differ from the current configuration.

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.

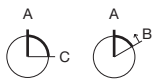
Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal



Mounting cut-outs [mm]

**Additional Information**

- Standard lock B2 300
- Further lock numbers see «Technical data»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



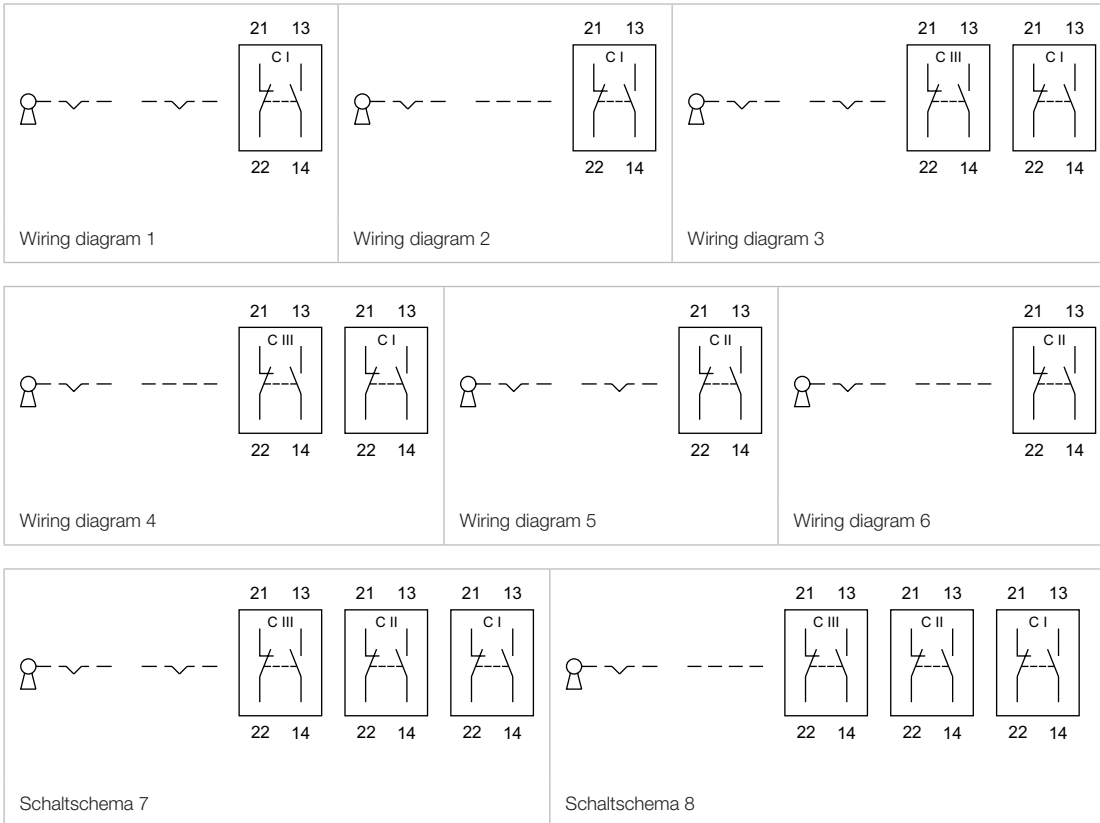
Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                                                                                                                 | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Key remove | Terminal            | Part No.    | Component layout | Wiring diagram | Weight   |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|------------|---------------------|-------------|------------------|----------------|----------|--|--|
| <div></div> <div>Keylock switch actuator 2 positions square, Front dimension 24 x 24 mm</div> |                               |                    |             |                  |                 |            |                     |             |                  |                |          |  |  |
| IP 40                                                                                                                                                                            | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | PCB                 | 761F.401-0P | 1                | 1              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - C            | C = 90°         | A          | PCB                 | 771F.401-0P | 1                | 1              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - B            | B = 60°         | A          | PCB                 | 781F.401-0P | 1                | 2              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C      | PCB                 | 762F.401-0P | 1                | 3              | 0.023 kg |  |  |
|                                                                                                                                                                                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | 761F.401-00 |                  | 1              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | 771F.401-00 |                  | 1              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | 781F.401-00 |                  | 2              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | 762F.401-00 |                  | 3              | 0.023 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | 772F.401-00 |                  | 3              | 0.023 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | 782F.401-00 |                  | 4              | 0.023 kg |  |  |
| IP 65                                                                                                                                                                            | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | PCB                 | 761F.401-WP | 1                | 1              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - C            | C = 90°         | A          | PCB                 | 771F.401-WP | 1                | 1              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - B            | B = 60°         | A          | PCB                 | 781F.401-WP | 1                | 2              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | 761F.401-W0 |                  | 1              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | 771F.401-W0 |                  | 1              | 0.022 kg |  |  |
|                                                                                                                                                                                  |                               |                    |             |                  |                 |            |                     |             |                  |                |          |  |  |

# 55 Raised design

| Front protection                                                                                                                                                                      | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Key remove          | Terminal            | Part No.            | Component layout   | Wiring diagram | Weight   |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|---------------------|---------------------|--------------------|----------------|----------|----------|
| IP 65                                                                                                                                                                                 | Snap-action switching element | 45 mm              | 1 NC + 1 NO | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>781F.401-W0</b>  |                    | 2              | 0.022 kg |          |
|                                                                                                                                                                                       |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>762F.401-W0</b>  |                    | 3              | 0.023 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>772F.401-W0</b>  |                    | 3              | 0.023 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>782F.401-W0</b>  |                    | 4              | 0.023 kg |          |
| <div></div> <div><b>Keylock switch actuator 2 positions square, Front dimension 24 x 24 mm</b></div> |                               |                    |             |                  |                 |                     |                     |                     |                    |                |          |          |
| IP 40                                                                                                                                                                                 | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C               | PCB                 | <b>911F.401-0P</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°         | A                   | PCB                 | <b>921F.401-0P</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°         | A                   | PCB                 | <b>931F.401-0P</b>  | 1                  | 6              | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C               | PCB                 | <b>912F.401-0P</b>  | 1                  | 3              | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°         | A                   | PCB                 | <b>932F.401-0P</b>  | 1                  | 4              | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | A                   | PCB                 | <b>923F.401-0P</b>  | 1                  | 7              | 0.026 kg |          |
|                                                                                                                                                                                       |                               |                    | 55 mm       | 1 NC + 1 NO      | A - C           | C = 90°             | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-00</b> |                | 5        | 0.024 kg |
|                                                                                                                                                                                       |                               |                    |             |                  | A - C           | C = 90°             | A                   | Solder 2.8 x 0.5 mm | <b>921F.401-00</b> |                | 5        | 0.024 kg |
|                                                                                                                                                                                       |                               |                    |             | 2 NC + 2 NO      | A - B           | B = 60°             | A                   | Solder 2.8 x 0.5 mm | <b>931F.401-00</b> |                | 6        | 0.024 kg |
|                                                                                                                                                                                       |                               | A - C              |             |                  | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>912F.401-00</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                                       |                               | 3 NC + 3 NO        |             | A - C            | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>922F.401-00</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>932F.401-00</b>  |                    | 4              | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>913F.401-00</b>  |                    | 7              | 0.027 kg |          |
|                                                                                                                                                                                       |                               | A - C              |             | C = 90°          | A               | Solder 2.8 x 0.5 mm | <b>923F.401-00</b>  |                     | 7                  | 0.027 kg       |          |          |
|                                                                                                                                                                                       |                               | A - B              |             | B = 60°          | A               | Solder 2.8 x 0.5 mm | <b>933F.401-00</b>  |                     | 8                  | 0.027 kg       |          |          |
| IP 65                                                                                                                                                                                 | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A                   | PCB                 | <b>921F.401-WP</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°         | A                   | PCB                 | <b>931F.401-WP</b>  | 1                  | 6              | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | A                   | PCB                 | <b>923F.401-WP</b>  | 1                  | 7              | 0.026 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°         | A                   | PCB                 | <b>933F.401-WP</b>  | 1                  | 8              | 0.026 kg |          |
|                                                                                                                                                                                       |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-W0</b>  |                    | 5              | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    |             | 2 NC + 2 NO      | A - C           | C = 90°             | A + C               | Solder 2.8 x 0.5 mm | <b>912F.401-W0</b> |                | 3        | 0.025 kg |
|                                                                                                                                                                                       |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>922F.401-W0</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>932F.401-W0</b>  |                    | 4              | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>913F.401-W0</b>  |                    | 7              | 0.027 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>923F.401-W0</b>  |                    | 7              | 0.027 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>933F.401-W0</b>  |                    | 8              | 0.027 kg |          |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107

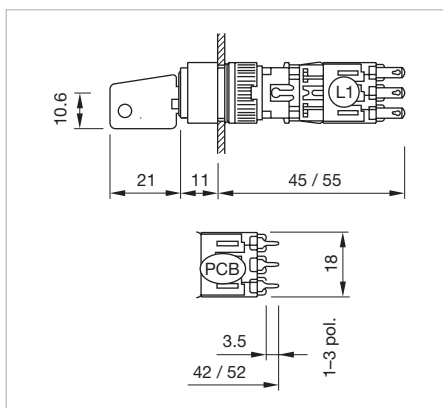


# 55 Raised design

## Keylock switch 2 positions square 18 x 18 mm



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)



**Front cap**

page 36



**Actuator**



**Fixing nut**



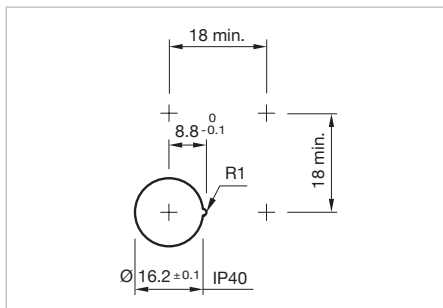
**Switching element**

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.

### Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- Standard lock B2 300
- Further lock numbers see «Technical data»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]



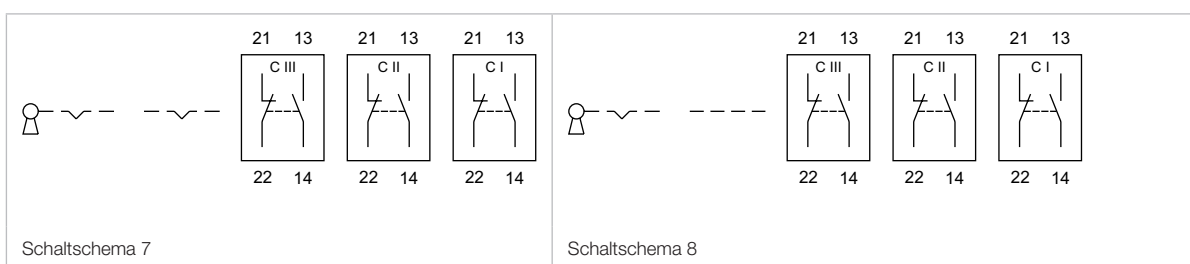
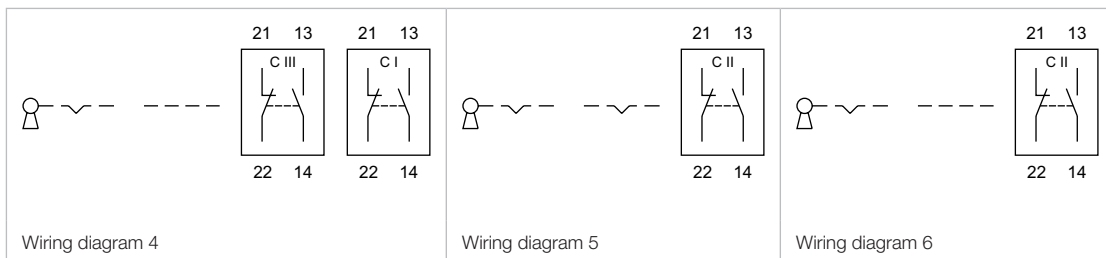
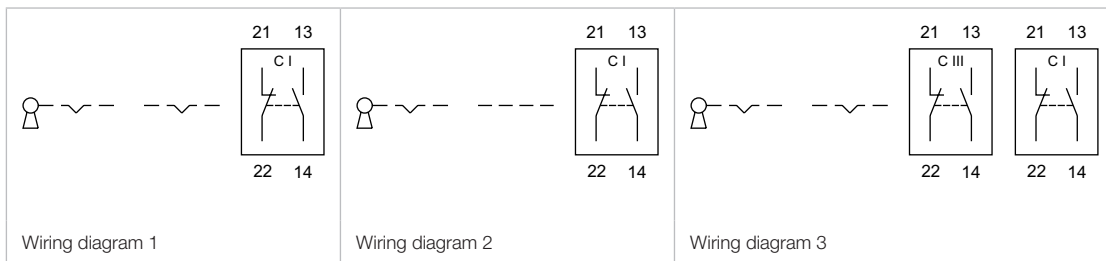
Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                                                                                                                 | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle               | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |                    |   |   |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-------------------------------|------------|---------------------|--------------------|------------------|----------------|----------|--------------------|---|---|----------|
| <div></div> <div>Keylock switch actuator 2 positions square, Front dimension 18 x 18 mm</div> |                               |                    |             |                  |                               |            |                     |                    |                  |                |          |                    |   |   |          |
| IP 40                                                                                                                                                                            | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°                       | A + C      | PCB                 | <b>761F.401-0P</b> | 1                | 1              | 0.022 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    |             | A - C            | C = 90°                       | A          | PCB                 | <b>771F.401-0P</b> | 1                | 1              | 0.022 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    |             | A - B            | B = 60°                       | A          | PCB                 | <b>781F.401-0P</b> | 1                | 2              | 0.022 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°                       | A + C      | PCB                 | <b>762F.401-0P</b> | 1                | 3              | 0.023 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°                       | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-00</b> |                  | 1              | 0.022 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    |             | A - C            | C = 90°                       | A          | Solder 2.8 x 0.5 mm | <b>771F.401-00</b> |                  | 1              | 0.022 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    |             | A - B            | B = 60°                       | A          | Solder 2.8 x 0.5 mm | <b>781F.401-00</b> |                  | 2              | 0.022 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°                       | A + C      | Solder 2.8 x 0.5 mm | <b>762F.401-00</b> |                  | 3              | 0.023 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    |             | A - C            | C = 90°                       | A          | Solder 2.8 x 0.5 mm | <b>772F.401-00</b> |                  | 3              | 0.023 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    |             | A - B            | B = 60°                       | A          | Solder 2.8 x 0.5 mm | <b>782F.401-00</b> |                  | 4              | 0.023 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               |                    |             | IP 65            | Snap-action switching element | 42 mm      | 1 NC + 1 NO         | A - C              | C = 90°          | A + C          | PCB      | <b>761F.401-WP</b> | 1 | 1 | 0.022 kg |
|                                                                                                                                                                                  |                               |                    |             |                  |                               |            |                     | A - C              | C = 90°          | A              | PCB      | <b>771F.401-WP</b> | 1 | 1 | 0.022 kg |
| A - B                                                                                                                                                                            | B = 60°                       | A                  | PCB         |                  |                               |            |                     | <b>781F.401-WP</b> | 1                | 2              | 0.022 kg |                    |   |   |          |
| 45 mm                                                                                                                                                                            | 1 NC + 1 NO                   | A - C              | C = 90°     |                  |                               | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-W0</b> |                  | 1              | 0.022 kg |                    |   |   |          |
|                                                                                                                                                                                  |                               | A - C              | C = 90°     |                  |                               | A          | Solder 2.8 x 0.5 mm | <b>771F.401-W0</b> |                  | 1              | 0.022 kg |                    |   |   |          |

| Front protection                                                                                                                                                                      | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle     | Key remove         | Terminal            | Part No.            | Component layout    | Wiring diagram     | Weight   |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|---------------------|--------------------|---------------------|---------------------|---------------------|--------------------|----------|----------|
| IP 65                                                                                                                                                                                 | Snap-action switching element | 45 mm              | 1 NC + 1 NO | A - B            | B = 60°             | A                  | Solder 2.8 x 0.5 mm | <b>781-.401-W0</b>  |                     | 2                  | 0.022 kg |          |
|                                                                                                                                                                                       |                               |                    | 2 NC + 2 NO | A - C            | C = 90°             | A + C              | Solder 2.8 x 0.5 mm | <b>762-.401-W0</b>  |                     | 3                  | 0.023 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°             | A                  | Solder 2.8 x 0.5 mm | <b>772-.401-W0</b>  |                     | 3                  | 0.023 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°             | A                  | Solder 2.8 x 0.5 mm | <b>782-.401-W0</b>  |                     | 4                  | 0.023 kg |          |
| <div></div> <div><b>Keylock switch actuator 2 positions square, Front dimension 18 x 18 mm</b></div> |                               |                    |             |                  |                     |                    |                     |                     |                     |                    |          |          |
| IP 40                                                                                                                                                                                 | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°             | A + C              | PCB                 | <b>911F.401-0P</b>  | 1                   | 5                  | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°             | A                  | PCB                 | <b>921F.401-0P</b>  | 1                   | 5                  | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°             | A                  | PCB                 | <b>931F.401-0P</b>  | 1                   | 6                  | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    | 2 NC + 2 NO | A - C            | C = 90°             | A + C              | PCB                 | <b>912F.401-0P</b>  | 1                   | 3                  | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°             | A                  | PCB                 | <b>932F.401-0P</b>  | 1                   | 4                  | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    | 3 NC + 3 NO | A - C            | C = 90°             | A                  | PCB                 | <b>923F.401-0P</b>  | 1                   | 7                  | 0.026 kg |          |
|                                                                                                                                                                                       |                               |                    | 55 mm       | 1 NC + 1 NO      | A - C               | C = 90°            | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-00</b>  |                    | 5        | 0.024 kg |
|                                                                                                                                                                                       |                               |                    |             |                  | A - C               | C = 90°            | A                   | Solder 2.8 x 0.5 mm | <b>921F.401-00</b>  |                    | 5        | 0.024 kg |
|                                                                                                                                                                                       |                               |                    |             |                  | A - B               | B = 60°            | A                   | Solder 2.8 x 0.5 mm | <b>931F.401-00</b>  |                    | 6        | 0.024 kg |
|                                                                                                                                                                                       |                               | 2 NC + 2 NO        |             | A - C            | C = 90°             | A + C              | Solder 2.8 x 0.5 mm | <b>912F.401-00</b>  |                     | 3                  | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°             | A                  | Solder 2.8 x 0.5 mm | <b>922F.401-00</b>  |                     | 3                  | 0.025 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°             | A                  | Solder 2.8 x 0.5 mm | <b>932F.401-00</b>  |                     | 4                  | 0.025 kg |          |
|                                                                                                                                                                                       |                               | 3 NC + 3 NO        |             | A - C            | C = 90°             | A + C              | Solder 2.8 x 0.5 mm | <b>913F.401-00</b>  |                     | 7                  | 0.027 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°             | A                  | Solder 2.8 x 0.5 mm | <b>923F.401-00</b>  |                     | 7                  | 0.027 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°             | A                  | Solder 2.8 x 0.5 mm | <b>933F.401-00</b>  |                     | 8                  | 0.027 kg |          |
| IP 65                                                                                                                                                                                 | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°             | A                  | PCB                 | <b>921F.401-WP</b>  | 1                   | 5                  | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°             | A                  | PCB                 | <b>931F.401-WP</b>  | 1                   | 6                  | 0.024 kg |          |
|                                                                                                                                                                                       |                               |                    | 3 NC + 3 NO | A - C            | C = 90°             | A                  | PCB                 | <b>923F.401-WP</b>  | 1                   | 7                  | 0.026 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - B            | B = 60°             | A                  | PCB                 | <b>933F.401-WP</b>  | 1                   | 8                  | 0.026 kg |          |
|                                                                                                                                                                                       |                               |                    | 55 mm       | 1 NC + 1 NO      | A - C               | C = 90°            | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-W0</b>  |                    | 5        | 0.024 kg |
|                                                                                                                                                                                       |                               |                    |             |                  | 2 NC + 2 NO         | A - C              | C = 90°             | A + C               | Solder 2.8 x 0.5 mm | <b>912F.401-W0</b> |          | 3        |
|                                                                                                                                                                                       |                               | A - C              |             | C = 90°          |                     | A                  | Solder 2.8 x 0.5 mm | <b>922F.401-W0</b>  |                     | 3                  | 0.025 kg |          |
|                                                                                                                                                                                       |                               | A - B              |             | B = 60°          |                     | A                  | Solder 2.8 x 0.5 mm | <b>932F.401-W0</b>  |                     | 4                  | 0.025 kg |          |
|                                                                                                                                                                                       |                               | 3 NC + 3 NO        |             | A - C            | C = 90°             | A + C              | Solder 2.8 x 0.5 mm | <b>913F.401-W0</b>  |                     | 7                  | 0.027 kg |          |
|                                                                                                                                                                                       |                               |                    |             | A - C            | C = 90°             | A                  | Solder 2.8 x 0.5 mm | <b>923F.401-W0</b>  |                     | 7                  | 0.027 kg |          |
|                                                                                                                                                                                       |                               | A - B              | B = 60°     | A                | Solder 2.8 x 0.5 mm | <b>933F.401-W0</b> |                     | 8                   | 0.027 kg            |                    |          |          |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107

# 55 Raised design



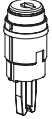
**Keylock switch 2 positions rectangular 18 x 24 mm**

**Equipment consisting of (schematic overview)**



**Front cap**

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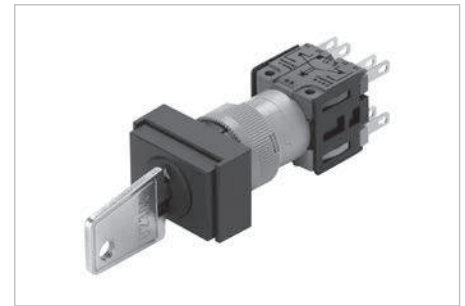
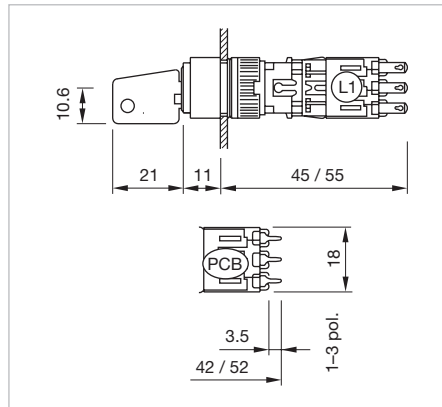
**Actuator**



**Fixing nut**



**Switching element**

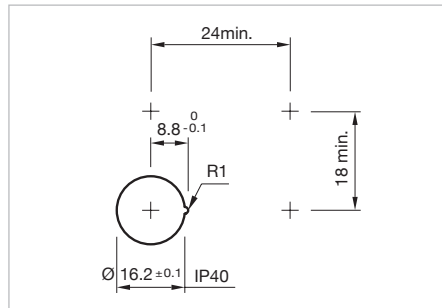


Product can differ from the current configuration.

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.

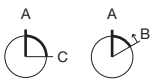
Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal



Mounting cut-outs [mm]

**Additional Information**

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- Standard lock B2 300
- Further lock numbers see «Technical data»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



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

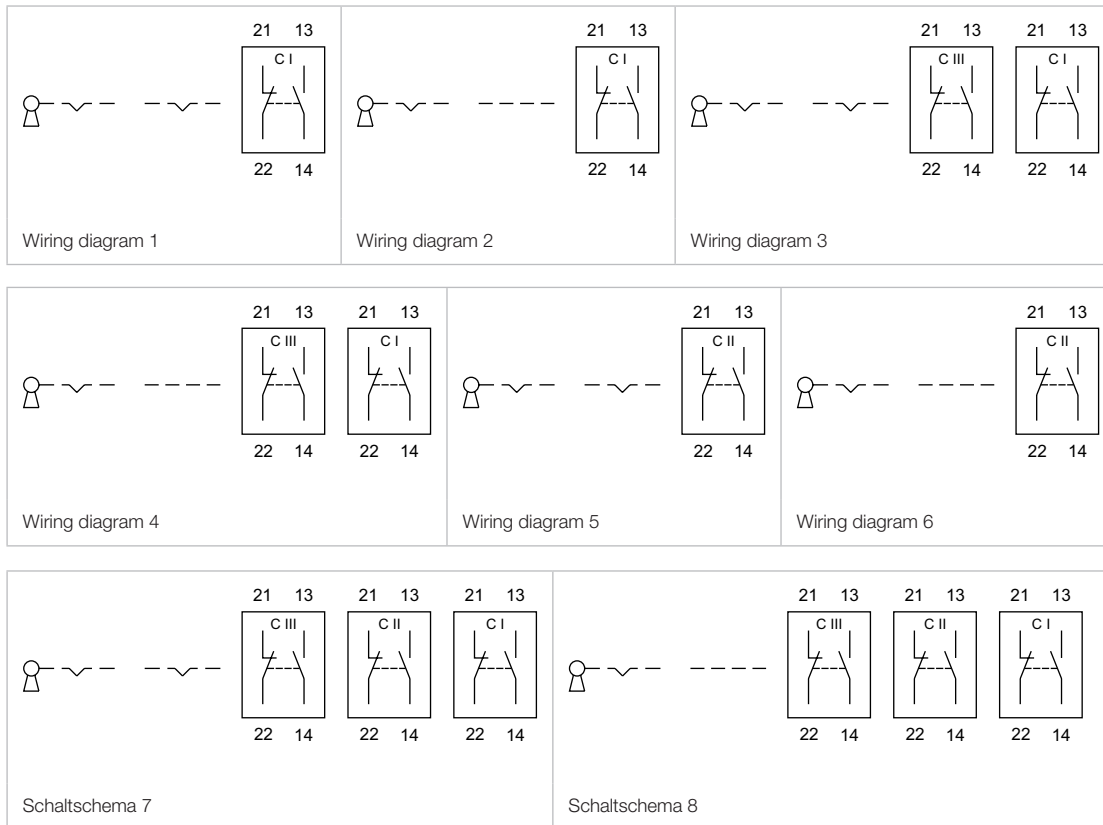
| Front protection                                                                                                                                                              | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|------------|---------------------|--------------------|------------------|----------------|----------|
|  <p><b>Keylock switch actuator 2 positions rectangular, Front dimension 18 x 24 mm</b></p> |                               |                    |             |                  |                 |            |                     |                    |                  |                |          |
| IP 40                                                                                                                                                                         | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>761F.401-0P</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A          | PCB                 | <b>771F.401-0P</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                               |                               |                    |             | A - B            | B = 60°         | A          | PCB                 | <b>781F.401-0P</b> | 1                | 2              | 0.022 kg |
|                                                                                                                                                                               |                               | 45 mm              | 2 NC + 2 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>762F.401-0P</b> | 1                | 3              | 0.023 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-00</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>771F.401-00</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                               |                               |                    | 1 NC + 1 NO | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | <b>781F.401-00</b> |                  | 2              | 0.022 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>762F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>772F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                                                                                                               |                               |                    |             | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | <b>782F.401-00</b> |                  | 4              | 0.023 kg |
|                                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>762F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>772F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                                                                                                               |                               |                    |             | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | <b>782F.401-00</b> |                  | 4              | 0.023 kg |
| IP 65                                                                                                                                                                         | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>761F.401-WP</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A          | PCB                 | <b>771F.401-WP</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                               |                               |                    |             | A - B            | B = 60°         | A          | PCB                 | <b>781F.401-WP</b> | 1                | 2              | 0.022 kg |
|                                                                                                                                                                               |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-W0</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>771F.401-W0</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                               |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>771F.401-W0</b> |                  | 1              | 0.022 kg |

# 55 Raised design

| Front protection                                                                                                                                                                           | Switching system              | Behind panel depth | Contacts    | Switching action    | Switching angle    | Key remove | Terminal            | Part No.            | Component layout   | Wiring diagram | Weight   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|---------------------|--------------------|------------|---------------------|---------------------|--------------------|----------------|----------|----------|
| IP 65                                                                                                                                                                                      | Snap-action switching element | 45 mm              | 1 NC + 1 NO | A - B               | B = 60°            | A          | Solder 2.8 x 0.5 mm | <b>781F.401-W0</b>  |                    | 2              | 0.022 kg |          |
|                                                                                                                                                                                            |                               |                    | 2 NC + 2 NO | A - C               | C = 90°            | A + C      | Solder 2.8 x 0.5 mm | <b>762F.401-W0</b>  |                    | 3              | 0.023 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - C               | C = 90°            | A          | Solder 2.8 x 0.5 mm | <b>772F.401-W0</b>  |                    | 3              | 0.023 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - B               | B = 60°            | A          | Solder 2.8 x 0.5 mm | <b>782F.401-W0</b>  |                    | 4              | 0.023 kg |          |
| <div></div> <div><b>Keylock switch actuator 2 positions rectangular, Front dimension 18 x 24 mm</b></div> |                               |                    |             |                     |                    |            |                     |                     |                    |                |          |          |
| IP 40                                                                                                                                                                                      | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C               | C = 90°            | A + C      | PCB                 | <b>911F.401-0P</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - C               | C = 90°            | A          | PCB                 | <b>921F.401-0P</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - B               | B = 60°            | A          | PCB                 | <b>931F.401-0P</b>  | 1                  | 6              | 0.024 kg |          |
|                                                                                                                                                                                            |                               |                    | 2 NC + 2 NO | A - C               | C = 90°            | A + C      | PCB                 | <b>912F.401-0P</b>  | 1                  | 3              | 0.025 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - B               | B = 60°            | A          | PCB                 | <b>932F.401-0P</b>  | 1                  | 4              | 0.025 kg |          |
|                                                                                                                                                                                            |                               |                    | 3 NC + 3 NO | A - C               | C = 90°            | A          | PCB                 | <b>923F.401-0P</b>  | 1                  | 7              | 0.026 kg |          |
|                                                                                                                                                                                            |                               |                    | 55 mm       | 1 NC + 1 NO         | A - C              | C = 90°    | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-00</b> |                | 5        | 0.024 kg |
|                                                                                                                                                                                            |                               |                    |             |                     | A - C              | C = 90°    | A                   | Solder 2.8 x 0.5 mm | <b>921F.401-00</b> |                | 5        | 0.024 kg |
|                                                                                                                                                                                            |                               |                    |             |                     | A - B              | B = 60°    | A                   | Solder 2.8 x 0.5 mm | <b>931F.401-00</b> |                | 6        | 0.024 kg |
|                                                                                                                                                                                            |                               | 2 NC + 2 NO        |             | A - C               | C = 90°            | A + C      | Solder 2.8 x 0.5 mm | <b>912F.401-00</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - C               | C = 90°            | A          | Solder 2.8 x 0.5 mm | <b>922F.401-00</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - B               | B = 60°            | A          | Solder 2.8 x 0.5 mm | <b>932F.401-00</b>  |                    | 4              | 0.025 kg |          |
|                                                                                                                                                                                            |                               | 3 NC + 3 NO        |             | A - C               | C = 90°            | A + C      | Solder 2.8 x 0.5 mm | <b>913F.401-00</b>  |                    | 7              | 0.027 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - C               | C = 90°            | A          | Solder 2.8 x 0.5 mm | <b>923F.401-00</b>  |                    | 7              | 0.027 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - B               | B = 60°            | A          | Solder 2.8 x 0.5 mm | <b>933F.401-00</b>  |                    | 8              | 0.027 kg |          |
| IP 65                                                                                                                                                                                      | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C               | C = 90°            | A          | PCB                 | <b>921F.401-WP</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - B               | B = 60°            | A          | PCB                 | <b>931F.401-WP</b>  | 1                  | 6              | 0.024 kg |          |
|                                                                                                                                                                                            |                               |                    | 3 NC + 3 NO | A - C               | C = 90°            | A          | PCB                 | <b>923F.401-WP</b>  | 1                  | 7              | 0.026 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - B               | B = 60°            | A          | PCB                 | <b>933F.401-WP</b>  | 1                  | 8              | 0.026 kg |          |
|                                                                                                                                                                                            |                               | 55 mm              | 1 NC + 1 NO | A - C               | C = 90°            | A + C      | Solder 2.8 x 0.5 mm | <b>911F.401-W0</b>  |                    | 5              | 0.024 kg |          |
|                                                                                                                                                                                            |                               |                    | 2 NC + 2 NO | A - C               | C = 90°            | A + C      | Solder 2.8 x 0.5 mm | <b>912F.401-W0</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - C               | C = 90°            | A          | Solder 2.8 x 0.5 mm | <b>922F.401-W0</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                                            |                               |                    |             | A - B               | B = 60°            | A          | Solder 2.8 x 0.5 mm | <b>932F.401-W0</b>  |                    | 4              | 0.025 kg |          |
|                                                                                                                                                                                            |                               |                    | 3 NC + 3 NO | A - C               | C = 90°            | A + C      | Solder 2.8 x 0.5 mm | <b>913F.401-W0</b>  |                    | 7              | 0.027 kg |          |
| A - C                                                                                                                                                                                      | C = 90°                       | A                  |             | Solder 2.8 x 0.5 mm | <b>923F.401-W0</b> |            | 7                   | 0.027 kg            |                    |                |          |          |
| A - B                                                                                                                                                                                      | B = 60°                       | A                  |             | Solder 2.8 x 0.5 mm | <b>933F.401-W0</b> |            | 8                   | 0.027 kg            |                    |                |          |          |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107



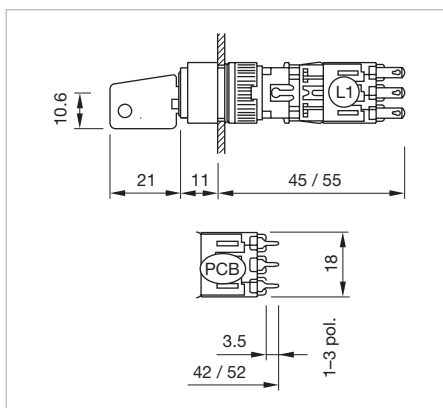


# 55 Raised design

## Keylock switch 2 positions round Ø 24 mm

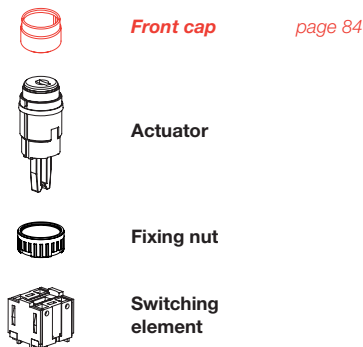


Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)

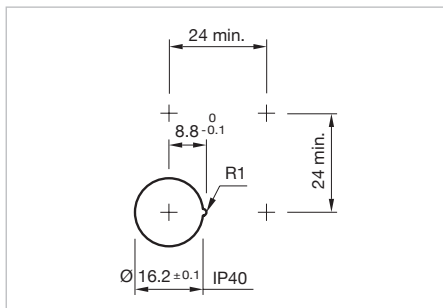


Each Part Number listed below includes all the black components shown in the 3D-drawing.

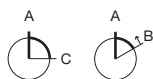
To obtain a complete unit, please select the red components from the pages shown.

### Additional Information

- Standard lock B2 300
- Further lock numbers see «Technical data»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]



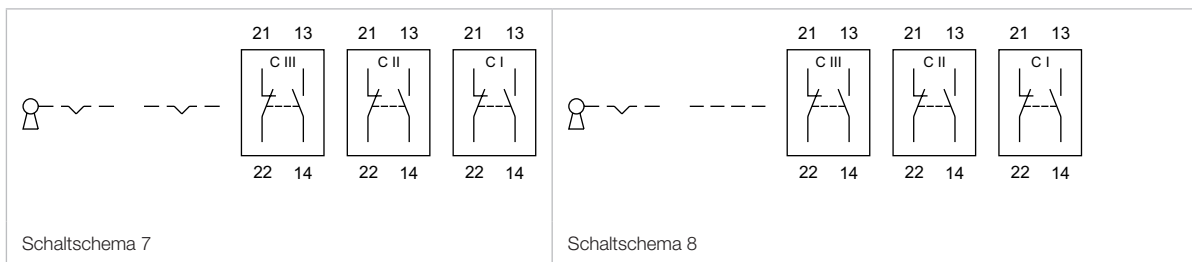
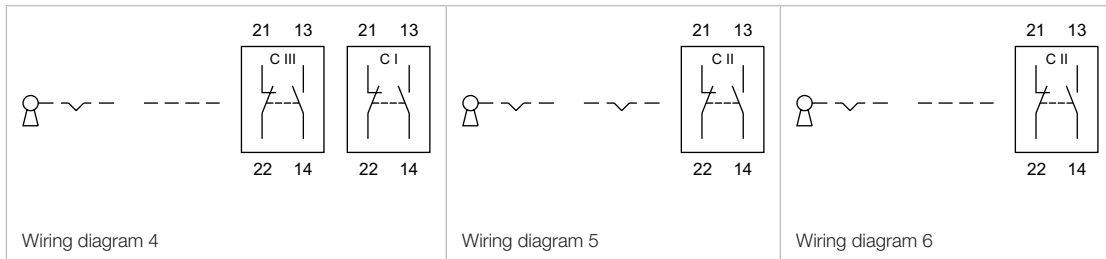
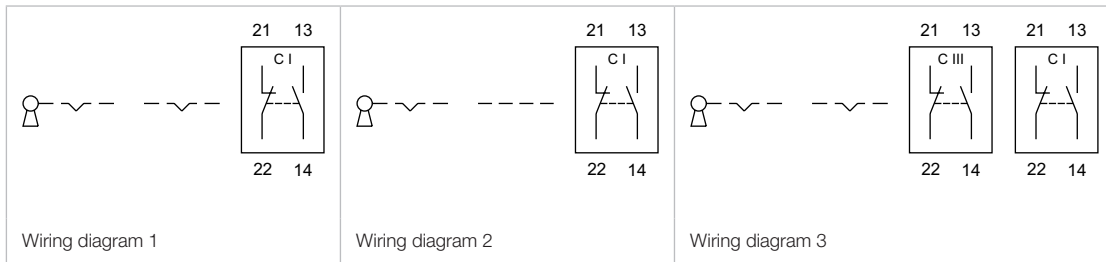
Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                                                                                              | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|------------|---------------------|--------------------|------------------|----------------|----------|
|  <b>Keylock switch actuator 2 positions round, Front dimension Ø 24 mm</b> |                               |                    |             |                  |                 |            |                     |                    |                  |                |          |
| IP 40                                                                                                                                                         | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>761F.401-0P</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 1 NC + 1 NO | A - C            | C = 90°         | A          | PCB                 | <b>771F.401-0P</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 1 NC + 1 NO | A - B            | B = 60°         | A          | PCB                 | <b>781F.401-0P</b> | 1                | 2              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>762F.401-0P</b> | 1                | 3              | 0.023 kg |
|                                                                                                                                                               |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-00</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 1 NC + 1 NO | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>771F.401-00</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 1 NC + 1 NO | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | <b>781F.401-00</b> |                  | 2              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>762F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>772F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | <b>782F.401-00</b> |                  | 4              | 0.023 kg |
| IP 65                                                                                                                                                         | Sprungschaltelement           | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>761F.401-WP</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 1 NC + 1 NO | A - C            | C = 90°         | A          | PCB                 | <b>771F.401-WP</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 1 NC + 1 NO | A - B            | B = 60°         | A          | PCB                 | <b>781F.401-WP</b> | 1                | 2              | 0.022 kg |
|                                                                                                                                                               |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-W0</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                               |                               |                    | 1 NC + 1 NO | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>771F.401-W0</b> |                  | 1              | 0.022 kg |

| Front protection                                                                                                                                                             | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Key remove          | Terminal            | Part No.            | Component layout   | Wiring diagram | Weight   |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|---------------------|---------------------|--------------------|----------------|----------|----------|
| IP 65                                                                                                                                                                        | Snap-action switching element | 45 mm              | 1 NC + 1 NO | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>781-.401-W0</b>  |                    | 2              | 0.022 kg |          |
|                                                                                                                                                                              |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>762-.401-W0</b>  |                    | 3              | 0.023 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - C            | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>772-.401-W0</b>  |                    | 3              | 0.023 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>782-.401-W0</b>  |                    | 4              | 0.023 kg |          |
| <div><p><b>Keylock switch actuator 2 positions round, Front dimension Ø 24 mm</b></p></div> |                               |                    |             |                  |                 |                     |                     |                     |                    |                |          |          |
| IP 40                                                                                                                                                                        | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C               | PCB                 | <b>911F.401-0P</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - C            | C = 90°         | A                   | PCB                 | <b>921F.401-0P</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - B            | B = 60°         | A                   | PCB                 | <b>931F.401-0P</b>  | 1                  | 6              | 0.024 kg |          |
|                                                                                                                                                                              |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C               | PCB                 | <b>912F.401-0P</b>  | 1                  | 3              | 0.025 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - B            | B = 60°         | A                   | PCB                 | <b>932F.401-0P</b>  | 1                  | 4              | 0.025 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - C            | C = 90°         | A                   | PCB                 | <b>923F.401-0P</b>  | 1                  | 7              | 0.026 kg |          |
|                                                                                                                                                                              |                               |                    | 55 mm       | 1 NC + 1 NO      | A - C           | C = 90°             | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-00</b> |                | 5        | 0.024 kg |
|                                                                                                                                                                              |                               |                    |             |                  | A - C           | C = 90°             | A                   | Solder 2.8 x 0.5 mm | <b>921F.401-00</b> |                | 5        | 0.024 kg |
|                                                                                                                                                                              |                               |                    |             |                  | A - B           | B = 60°             | A                   | Solder 2.8 x 0.5 mm | <b>931F.401-00</b> |                | 6        | 0.024 kg |
|                                                                                                                                                                              |                               | 2 NC + 2 NO        |             | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>912F.401-00</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - C            | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>922F.401-00</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>932F.401-00</b>  |                    | 4              | 0.025 kg |          |
|                                                                                                                                                                              |                               | 3 NC + 3 NO        | A - C       | C = 90°          | A + C           | Solder 2.8 x 0.5 mm | <b>913F.401-00</b>  |                     | 7                  | 0.027 kg       |          |          |
|                                                                                                                                                                              |                               |                    | A - C       | C = 90°          | A               | Solder 2.8 x 0.5 mm | <b>923F.401-00</b>  |                     | 7                  | 0.027 kg       |          |          |
|                                                                                                                                                                              |                               |                    | A - B       | B = 60°          | A               | Solder 2.8 x 0.5 mm | <b>933F.401-00</b>  |                     | 8                  | 0.027 kg       |          |          |
| IP 65                                                                                                                                                                        | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A                   | PCB                 | <b>921F.401-WP</b>  | 1                  | 5              | 0.024 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - B            | B = 60°         | A                   | PCB                 | <b>931F.401-WP</b>  | 1                  | 6              | 0.024 kg |          |
|                                                                                                                                                                              |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | A                   | PCB                 | <b>923F.401-WP</b>  | 1                  | 7              | 0.026 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - B            | B = 60°         | A                   | PCB                 | <b>933F.401-WP</b>  | 1                  | 8              | 0.026 kg |          |
|                                                                                                                                                                              |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-W0</b>  |                    | 5              | 0.024 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>912F.401-W0</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                              |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>922F.401-W0</b>  |                    | 3              | 0.025 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>932F.401-W0</b>  |                    | 4              | 0.025 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - C            | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>913F.401-W0</b>  |                    | 7              | 0.027 kg |          |
|                                                                                                                                                                              |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>923F.401-W0</b>  |                    | 7              | 0.027 kg |          |
|                                                                                                                                                                              |                               |                    |             | A - B            | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>933F.401-W0</b>  |                    | 8              | 0.027 kg |          |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107

# 55 Raised design

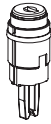


**Keylock switch 2 positions round Ø 18 mm**

**Equipment consisting of (schematic overview)**



**Front cap** page 84



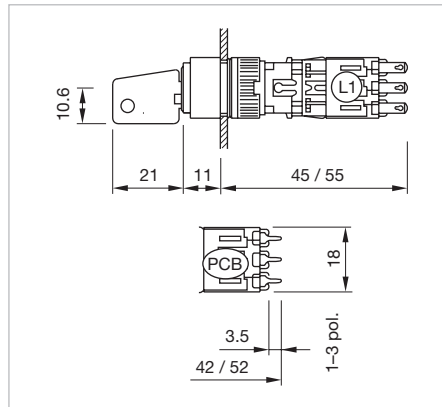
**Actuator**



**Fixing nut**



**Switching element**

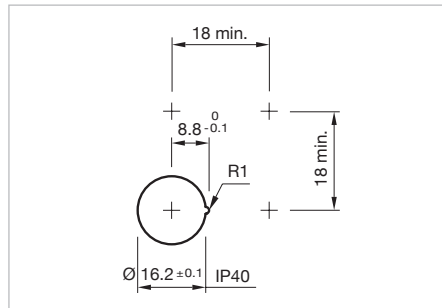


Product can differ from the current configuration.

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.

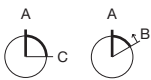
Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal



Mounting cut-outs [mm]

**Additional Information**

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- Standard lock B2 300
- Further lock numbers see «Technical data»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



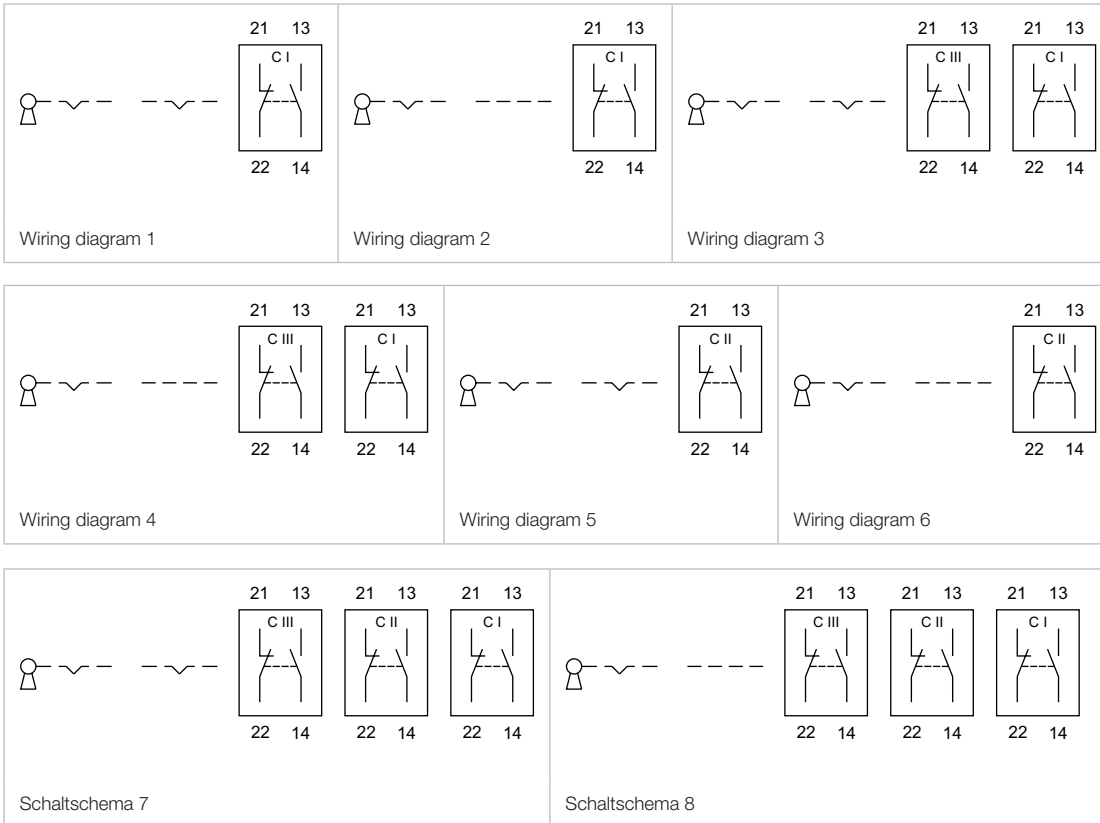
Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                                                                                                     | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|------------|---------------------|--------------------|------------------|----------------|----------|
|  <p><b>Keylock switch actuator 2 positions round, Front dimension Ø 18 mm</b></p> |                               |                    |             |                  |                 |            |                     |                    |                  |                |          |
| IP 40                                                                                                                                                                | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>761F.401-0P</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A          | PCB                 | <b>771F.401-0P</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - B            | B = 60°         | A          | PCB                 | <b>781F.401-0P</b> | 1                | 2              | 0.022 kg |
|                                                                                                                                                                      |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>762F.401-0P</b> | 1                | 3              | 0.023 kg |
|                                                                                                                                                                      |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-00</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>771F.401-00</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | <b>781F.401-00</b> |                  | 2              | 0.022 kg |
|                                                                                                                                                                      |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>762F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>772F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                                                                                                      |                               |                    |             | A - B            | B = 60°         | A          | Solder 2.8 x 0.5 mm | <b>782F.401-00</b> |                  | 4              | 0.023 kg |
| IP 65                                                                                                                                                                | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | A + C      | PCB                 | <b>761F.401-WP</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A          | PCB                 | <b>771F.401-WP</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - B            | B = 60°         | A          | PCB                 | <b>781F.401-WP</b> | 1                | 2              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-W0</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>771F.401-W0</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A + C      | PCB                 | <b>761F.401-0P</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A          | PCB                 | <b>771F.401-0P</b> | 1                | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - B            | B = 60°         | A          | PCB                 | <b>781F.401-0P</b> | 1                | 2              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A + C      | Solder 2.8 x 0.5 mm | <b>761F.401-W0</b> |                  | 1              | 0.022 kg |
|                                                                                                                                                                      |                               |                    |             | A - C            | C = 90°         | A          | Solder 2.8 x 0.5 mm | <b>771F.401-W0</b> |                  | 1              | 0.022 kg |

# 55 Raised design

| Front protection                                                                                                                                                                  | Switching system              | Behind panel depth | Contacts            | Switching action   | Switching angle | Key remove          | Terminal            | Part No.            | Component layout   | Wiring diagram | Weight   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|---------------------|--------------------|-----------------|---------------------|---------------------|---------------------|--------------------|----------------|----------|
| IP 65                                                                                                                                                                             | Snap-action switching element | 45 mm              | 1 NC + 1 NO         | A - B              | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>781F.401-W0</b>  |                    | 2              | 0.022 kg |
|                                                                                                                                                                                   |                               |                    | 2 NC + 2 NO         | A - C              | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>762F.401-W0</b>  |                    | 3              | 0.023 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - C              | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>772F.401-W0</b>  |                    | 3              | 0.023 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - B              | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>782F.401-W0</b>  |                    | 4              | 0.023 kg |
| <div></div> <div><b>Keylock switch actuator 2 positions round, Front dimension Ø 18 mm</b></div> |                               |                    |                     |                    |                 |                     |                     |                     |                    |                |          |
| IP 40                                                                                                                                                                             | Snap-action switching element | 52 mm              | 1 NC + 1 NO         | A - C              | C = 90°         | A                   | PCB                 | <b>921F.401-0P</b>  | 1                  | 5              | 0.024 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - B              | B = 60°         | A                   | PCB                 | <b>931F.401-0P</b>  | 1                  | 6              | 0.024 kg |
|                                                                                                                                                                                   |                               |                    | 2 NC + 2 NO         | A - C              | C = 90°         | A + C               | PCB                 | <b>912F.401-0P</b>  | 1                  | 3              | 0.025 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - C              | C = 90°         | A                   | PCB                 | <b>923F.401-0P</b>  | 1                  | 7              | 0.026 kg |
|                                                                                                                                                                                   |                               | 55 mm              | 1 NC + 1 NO         | A - C              | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-00</b>  |                    | 5              | 0.024 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - C              | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>921F.401-00</b>  |                    | 5              | 0.024 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - B              | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>931F.401-00</b>  |                    | 6              | 0.024 kg |
|                                                                                                                                                                                   |                               |                    | 2 NC + 2 NO         | A - C              | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>912F.401-00</b>  |                    | 3              | 0.025 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - C              | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>922F.401-00</b>  |                    | 3              | 0.025 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - B              | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>932F.401-00</b>  |                    | 4              | 0.025 kg |
|                                                                                                                                                                                   |                               |                    | 3 NC + 3 NO         | A - C              | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>913F.401-00</b>  |                    | 7              | 0.027 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - C              | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>923F.401-00</b>  |                    | 7              | 0.027 kg |
|                                                                                                                                                                                   |                               |                    |                     | A - B              | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>933F.401-00</b>  |                    | 8              | 0.027 kg |
| IP 65                                                                                                                                                                             | Snap-action switching element | 52 mm              | 1 NC + 1 NO         | A - B              | B = 60°         | A                   | PCB                 | <b>931F.401-WP</b>  | 1                  | 6              | 0.024 kg |
|                                                                                                                                                                                   |                               | 55 mm              | 1 NC + 1 NO         | A - C              | C = 90°         | A + C               | Solder 2.8 x 0.5 mm | <b>911F.401-W0</b>  |                    | 5              | 0.024 kg |
|                                                                                                                                                                                   |                               |                    |                     | 2 NC + 2 NO        | A - C           | C = 90°             | A + C               | Solder 2.8 x 0.5 mm | <b>912F.401-W0</b> |                | 3        |
|                                                                                                                                                                                   |                               |                    | A - C               | C = 90°            | A               | Solder 2.8 x 0.5 mm | <b>922F.401-W0</b>  |                     | 3                  | 0.025 kg       |          |
|                                                                                                                                                                                   |                               |                    |                     | A - B              | B = 60°         | A                   | Solder 2.8 x 0.5 mm | <b>932F.401-W0</b>  |                    | 4              | 0.025 kg |
|                                                                                                                                                                                   |                               |                    |                     | 3 NC + 3 NO        | A - C           | C = 90°             | A + C               | Solder 2.8 x 0.5 mm | <b>913F.401-W0</b> |                | 7        |
|                                                                                                                                                                                   |                               |                    | A - C               |                    | C = 90°         | A                   | Solder 2.8 x 0.5 mm | <b>923F.401-W0</b>  |                    | 7              | 0.027 kg |
| A - B                                                                                                                                                                             | B = 60°                       | A                  | Solder 2.8 x 0.5 mm | <b>933F.401-W0</b> |                 | 8                   | 0.027 kg            |                     |                    |                |          |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107

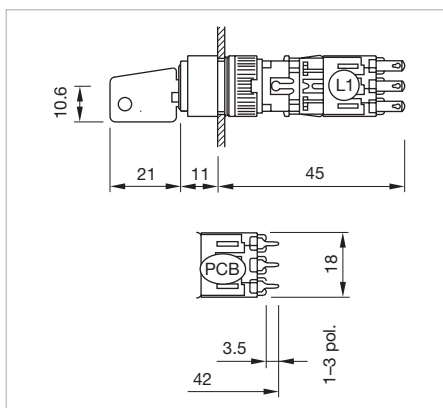


# 55 Raised design

## Keylock switch 3 positions square 24 x 24 mm



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)



**Front cap**

page 85



**Actuator**



**Fixing nut**



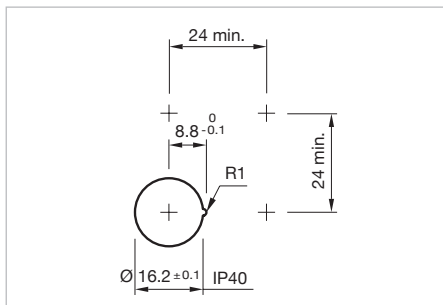
**Switching element**

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.

### Additional Information

- Standard lock B2 300
- Further lock numbers see «Technical data»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]



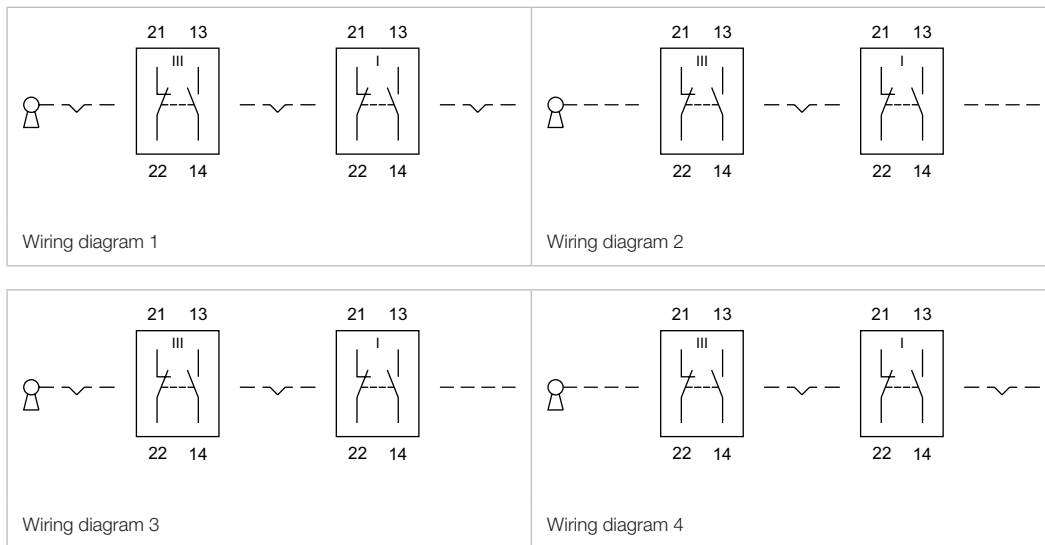
Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
|                  | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-0P</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | PCB                 | <b>722F.401-0P</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | PCB                 | <b>732F.401-0P</b> | 1                | 2              | 0.023 kg |
|                  |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | PCB                 | <b>752F.401-0P</b> | 1                | 4              | 0.023 kg |
|                  |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-00</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-00</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-00</b> |                  | 2              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-00</b> |                  | 3              | 0.023 kg |
|                  |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | Solder 2.8 x 0.5 mm | <b>752F.401-00</b> |                  | 4              | 0.023 kg |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |



| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
| IP 65            | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-WP</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | PCB                 | <b>742F.401-WP</b> | 1                | 3              | 0.023 kg |
|                  |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-W0</b> |                  | 2              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-W0</b> |                  | 4              | 0.023 kg |

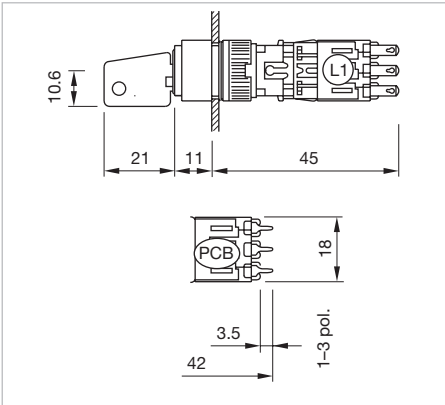
Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107



Keylock switch 3 positions square 18 x 18 mm



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

Equipment consisting of (schematic overview)

**Front cap** *page 85*

**Actuator**

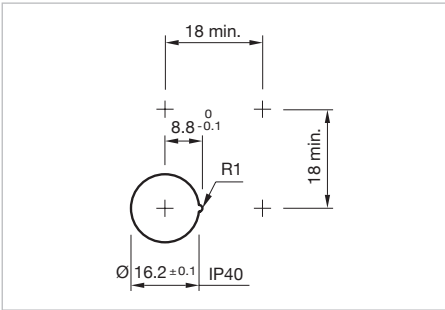
**Fixing nut**

**Switching element**

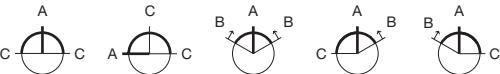
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

- Additional Information**
- For the flush design please order the additional front bezel set, see chapter «Accessories»
  - Standard lock B2 300
  - Further lock numbers see «Technical data»
  - With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

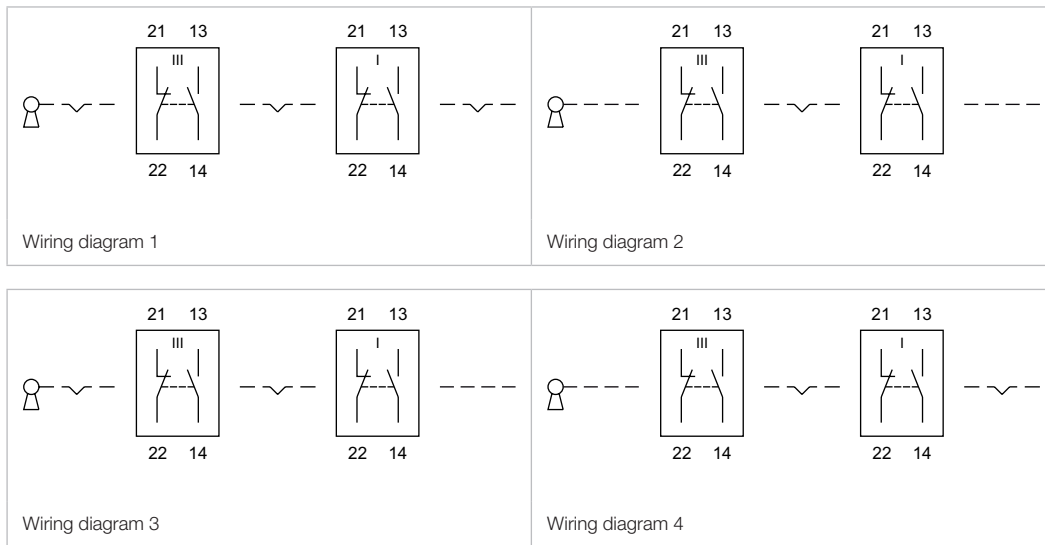


Switching positions (A = Rest, B = Momentary, C = Maintained)

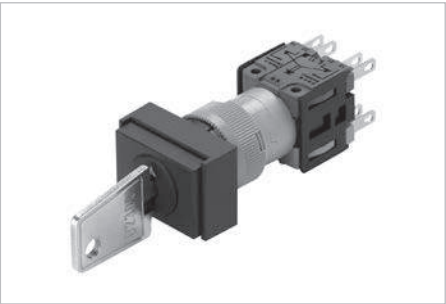
| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
|                  | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-0P</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | PCB                 | <b>722F.401-0P</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | PCB                 | <b>732F.401-0P</b> | 1                | 2              | 0.023 kg |
|                  |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | PCB                 | <b>752F.401-0P</b> | 1                | 4              | 0.023 kg |
|                  |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-00</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-00</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-00</b> |                  | 2              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-00</b> |                  | 3              | 0.023 kg |
|                  |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | Solder 2.8 x 0.5 mm | <b>752F.401-00</b> |                  | 4              | 0.023 kg |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                  |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |

| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key re-move | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|------------------|-------------|---------------------|--------------------|------------------|----------------|----------|
| IP 65            | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C   | PCB                 | <b>712F.401-WP</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A       | PCB                 | <b>742F.401-WP</b> | 1                | 3              | 0.023 kg |
|                  |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C   | Solder 2.8 x 0.5 mm | <b>712F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C   | Solder 2.8 x 0.5 mm | <b>722F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | B - A - B        | B = 60° / 60°    | A           | Solder 2.8 x 0.5 mm | <b>732F.401-W0</b> |                  | 2              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A       | Solder 2.8 x 0.5 mm | <b>742F.401-W0</b> |                  | 3              | 0.023 kg |

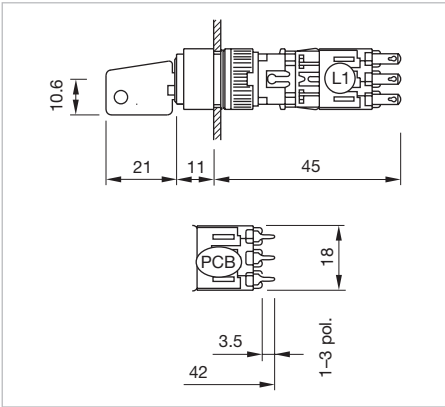
Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107



Keylock switch 3 positions rectangular 18 x 24 mm



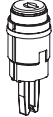
Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

Equipment consisting of (schematic overview)

**Front cap** *page 85*

**Actuator**

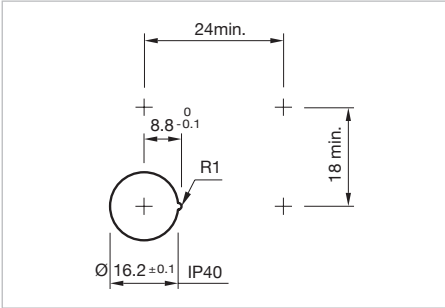
**Fixing nut**

**Switching element**

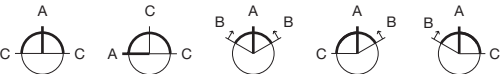
Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

- Additional Information**
- For the flush design please order the additional front bezel set, see chapter «Accessories»
  - Standard lock B2 300
  - Further lock numbers see «Technical data»
  - With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

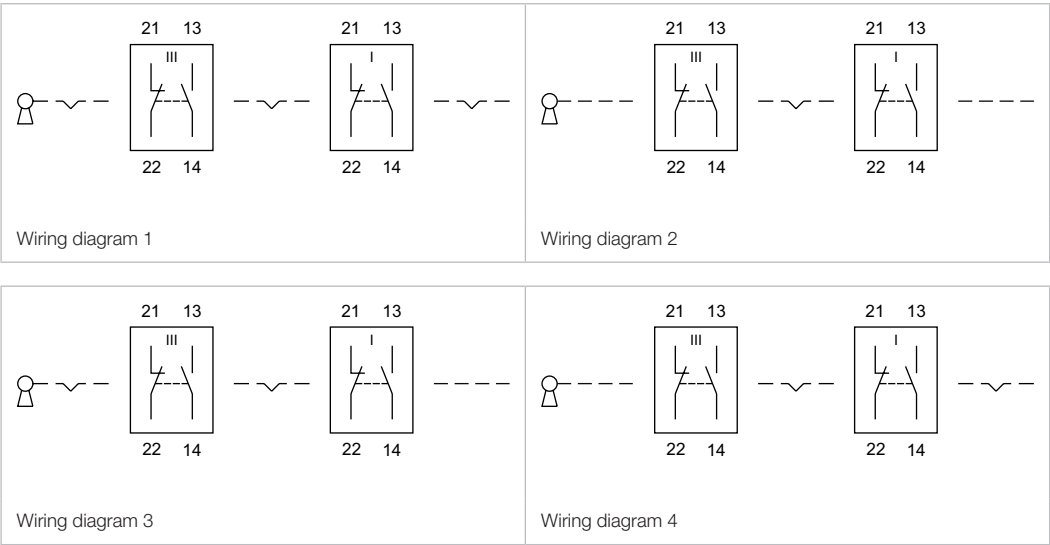


Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                    | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
|  | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-0P</b> | 1                | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | PCB                 | <b>722F.401-0P</b> | 1                | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | PCB                 | <b>732F.401-0P</b> | 1                | 2              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | PCB                 | <b>752F.401-0P</b> | 1                | 4              | 0.023 kg |
|                                                                                     |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-00</b> |                  | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-00</b> |                  | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-00</b> |                  | 2              | 0.023 kg |
|                                                                                     |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | Solder 2.8 x 0.5 mm | <b>752F.401-00</b> |                  | 4              | 0.023 kg |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |

| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
| IP 65            | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-WP</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | PCB                 | <b>742F.401-WP</b> | 1                | 3              | 0.023 kg |
|                  |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-W0</b> |                  | 2              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-W0</b> |                  | 3              | 0.023 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107

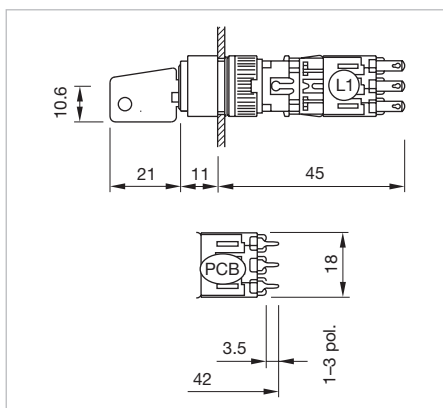


# 55 Raised design

## Keylock switch 3 positions round Ø 24 mm

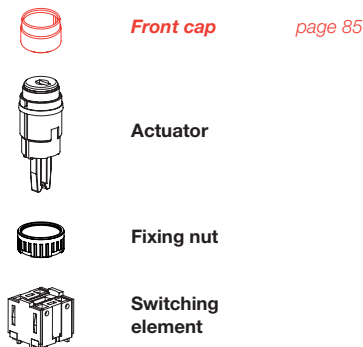


Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)

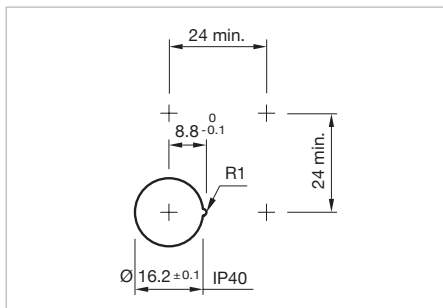


Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

### Additional Information

- Standard lock B2 300
- Further lock numbers see «Technical data»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

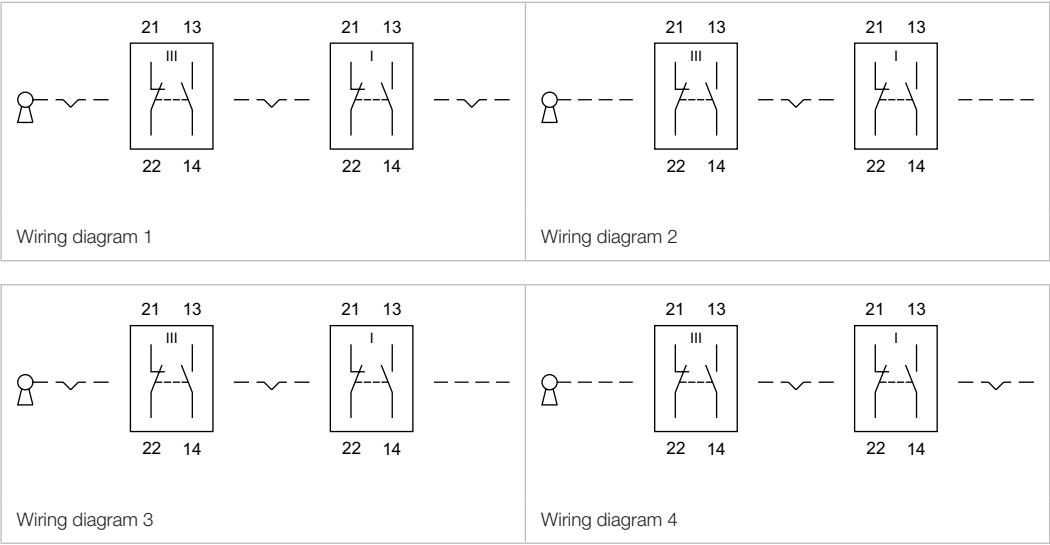


Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                    | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
|  | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-0P</b> | 1                | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | PCB                 | <b>722F.401-0P</b> | 1                | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | PCB                 | <b>732F.401-0P</b> | 1                | 2              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | PCB                 | <b>752F.401-0P</b> | 1                | 4              | 0.023 kg |
|                                                                                     |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-00</b> |                  | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-00</b> |                  | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-00</b> |                  | 2              | 0.023 kg |
|                                                                                     |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | Solder 2.8 x 0.5 mm | <b>752F.401-00</b> |                  | 4              | 0.023 kg |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |

| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
| IP 65            | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-WP</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    | 2 NC + 2 NO | C - A - B        | C = 60°, B = 60° | C + A      | PCB                 | <b>742F.401-WP</b> | 1                | 3              | 0.023 kg |
|                  |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    | 2 NC + 2 NO | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-W0</b> |                  | 2              | 0.023 kg |
|                  |                               |                    | 2 NC + 2 NO | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-W0</b> |                  | 3              | 0.023 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107

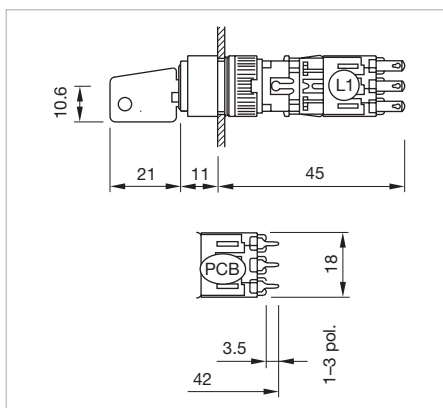


# 55 Raised design

## Keylock switch 3 positions round Ø 18 mm

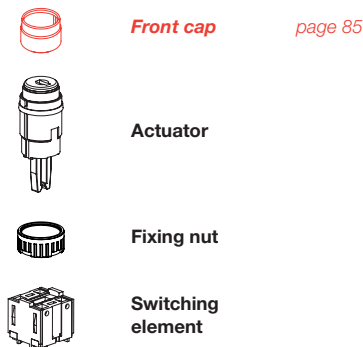


Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

### Equipment consisting of (schematic overview)

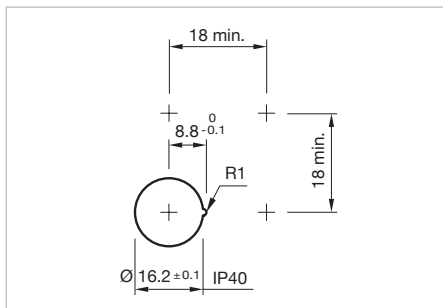


Each Part Number listed below includes all the black components shown in the 3D-drawing.

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

### Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- Standard lock B2 300
- Further lock numbers see «Technical data»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]



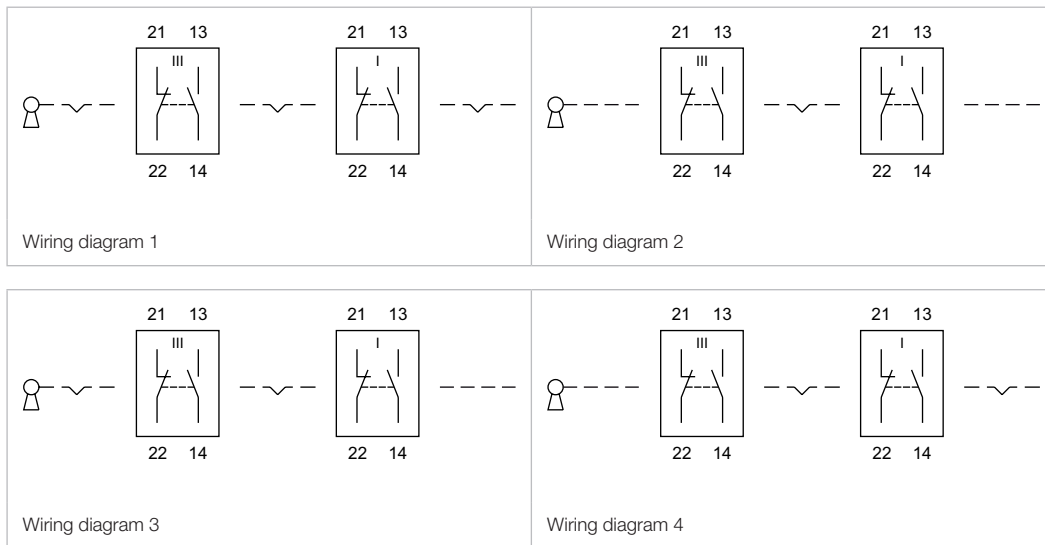
Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                    | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
|  | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-0P</b> | 1                | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | PCB                 | <b>722F.401-0P</b> | 1                | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | PCB                 | <b>732F.401-0P</b> | 1                | 2              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | PCB                 | <b>752F.401-0P</b> | 1                | 4              | 0.023 kg |
|                                                                                     |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-00</b> |                  | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-00</b> |                  | 1              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-00</b> |                  | 2              | 0.023 kg |
|                                                                                     |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-00</b> |                  | 3              | 0.023 kg |
|                                                                                     |                               |                    |             | B - A - C        | B = 60°, C = 60° | A + C      | Solder 2.8 x 0.5 mm | <b>752F.401-00</b> |                  | 4              | 0.023 kg |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |
|                                                                                     |                               |                    |             |                  |                  |            |                     |                    |                  |                |          |

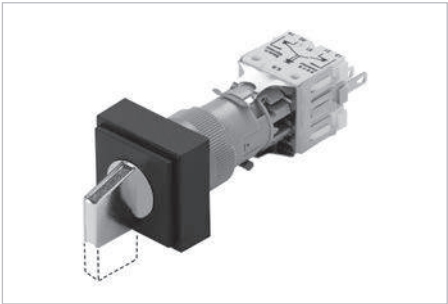


| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle  | Key remove | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|------------------|------------|---------------------|--------------------|------------------|----------------|----------|
| IP 65            | Snap-action switching element | 42 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | PCB                 | <b>712F.401-WP</b> | 1                | 1              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | PCB                 | <b>742F.401-WP</b> | 1                | 3              | 0.023 kg |
|                  |                               | 45 mm              | 2 NC + 2 NO | C - A - C        | C = 90° / 90°    | C + A + C  | Solder 2.8 x 0.5 mm | <b>712F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | A - C - C        | C = 90° / 180°   | A + C + C  | Solder 2.8 x 0.5 mm | <b>722F.401-W0</b> |                  | 1              | 0.023 kg |
|                  |                               |                    |             | B - A - B        | B = 60° / 60°    | A          | Solder 2.8 x 0.5 mm | <b>732F.401-W0</b> |                  | 2              | 0.023 kg |
|                  |                               |                    |             | C - A - B        | C = 60°, B = 60° | C + A      | Solder 2.8 x 0.5 mm | <b>742F.401-W0</b> |                  | 3              | 0.023 kg |

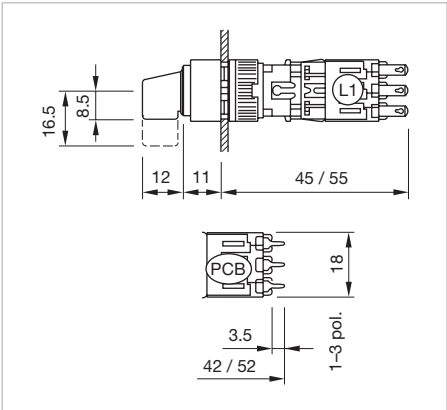
Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107



Selector switch 2 positions square 24 x 24 mm



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

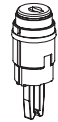
Equipment consisting of (schematic overview)



**Lever** page 86



**Front cap** page 84



**Actuator**



**Fixing nut**



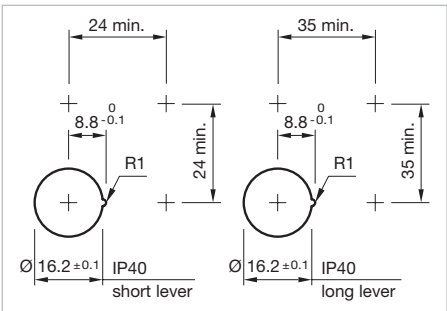
**Switching element**

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

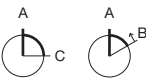
To obtain a complete unit, please select the red components from the pages shown.

Additional Information

- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

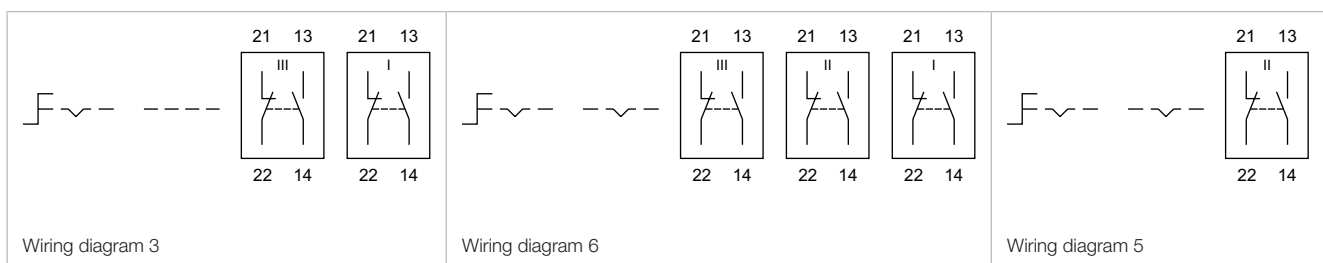
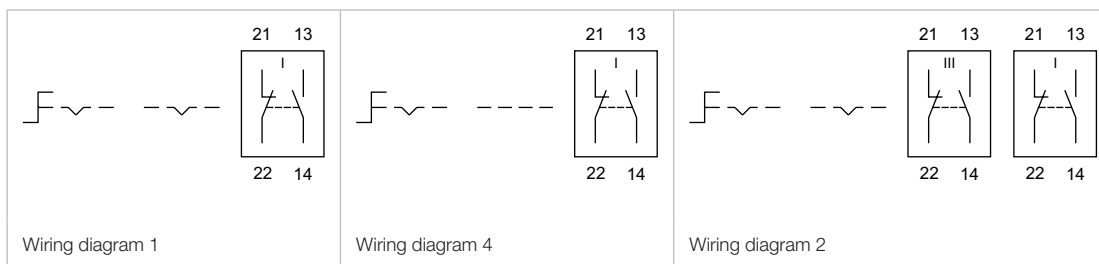


Switching positions (A = Rest, B = Momentary, C = Maintained)

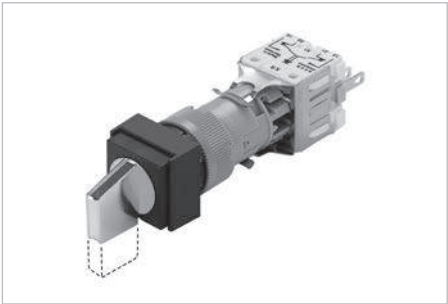
| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|--------------------|------------------|----------------|----------|
|                  | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>761F.700-0P</b> | 1                | 1              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>762F.700-0P</b> | 1                | 2              | 0.012 kg |
|                  |                               |                    | 2 NC + 2 NO | A - B            | B = 60°         | PCB                 | <b>782F.700-0P</b> | 1                | 3              | 0.012 kg |
|                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>761F.700-00</b> |                  | 1              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>762F.700-00</b> |                  | 2              | 0.012 kg |
|                  |                               |                    | 1 NC + 1 NO | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | <b>781F.700-00</b> |                  | 4              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | <b>782F.700-00</b> |                  | 3              | 0.012 kg |
|                  |                               |                    |             |                  |                 |                     |                    |                  |                |          |
|                  | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>761F.700-WP</b> | 1                | 1              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>762F.700-WP</b> | 1                | 2              | 0.012 kg |
|                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>761F.700-W0</b> |                  | 1              | 0.011 kg |
|                  |                               |                    |             | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | <b>781F.700-W0</b> |                  | 4              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>762F.700-W0</b> |                  | 2              | 0.012 kg |
|                  |                               |                    |             |                  |                 |                     |                    |                  |                |          |

| Front protection                                                                                                                                                        | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|--------------------|------------------|----------------|----------|
|  <p><b>Selector switch actuator 2 positions square, Front dimension 24 x 24 mm</b></p> |                               |                    |             |                  |                 |                     |                    |                  |                |          |
| IP 40                                                                                                                                                                   | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-0P</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                         |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>912F.700-0P</b> | 1                | 2              | 0.014 kg |
|                                                                                                                                                                         |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | PCB                 | <b>913F.700-0P</b> | 1                | 6              | 0.015 kg |
|                                                                                                                                                                         |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-00</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                         |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-00</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                         |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-00</b> |                  | 6              | 0.015 kg |
| IP 65                                                                                                                                                                   | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-WP</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                         |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-W0</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                         |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-W0</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                         |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-W0</b> |                  | 6              | 0.015 kg |

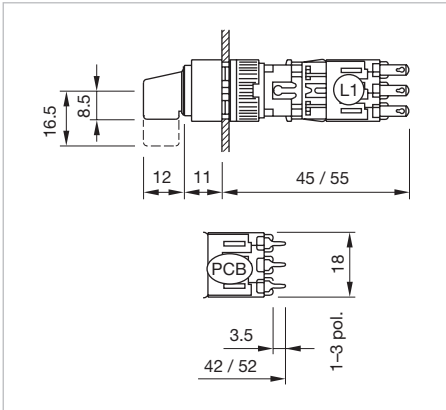
Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107



Selector switch 2 positions square 18 x 18 mm



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

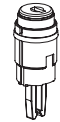
Equipment consisting of (schematic overview)



**Lever** page 86



**Front cap** page 84



**Actuator**



**Fixing nut**



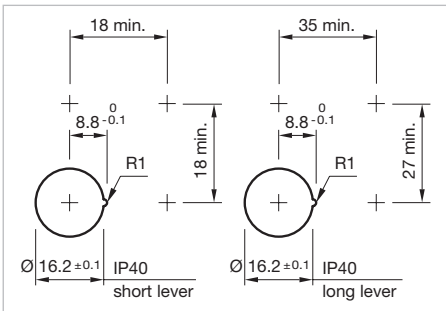
**Switching element**

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

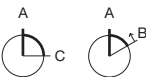
To obtain a complete unit, please select the red components from the pages shown.

Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

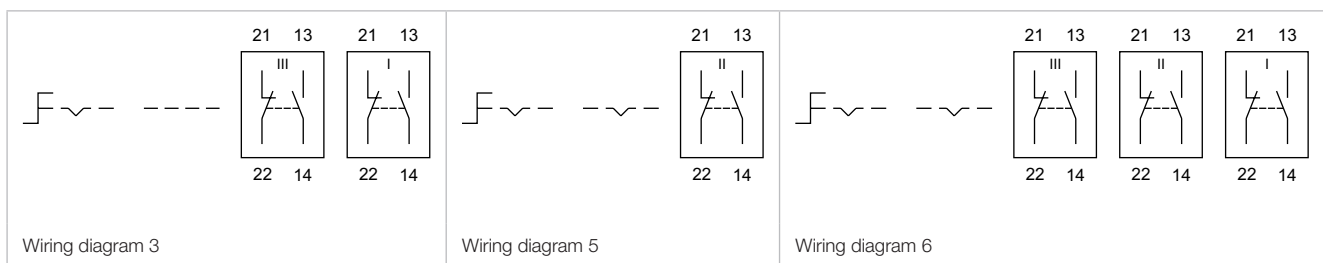
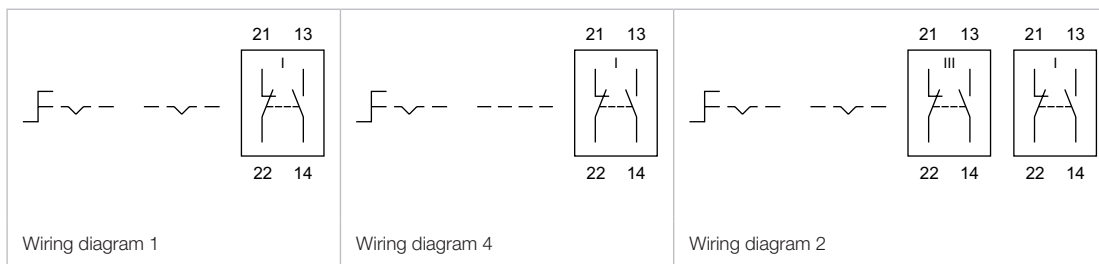


Switching positions (A = Rest, B = Momentary, C = Maintained)

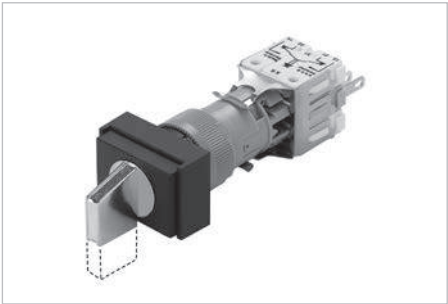
| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|--------------------|------------------|----------------|----------|
|                  | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>761F.700-0P</b> | 1                | 1              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>762F.700-0P</b> | 1                | 2              | 0.012 kg |
|                  |                               |                    | 2 NC + 2 NO | A - B            | B = 60°         | PCB                 | <b>782F.700-0P</b> | 1                | 3              | 0.012 kg |
|                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>761F.700-00</b> |                  | 1              | 0.011 kg |
|                  |                               |                    | 1 NC + 1 NO | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | <b>781F.700-00</b> |                  | 4              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>762F.700-00</b> |                  | 2              | 0.012 kg |
|                  |                               |                    | 2 NC + 2 NO | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | <b>782F.700-00</b> |                  | 3              | 0.012 kg |
|                  | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>761F.700-WP</b> | 1                | 1              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>762F.700-WP</b> | 1                | 2              | 0.012 kg |
|                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>761F.700-W0</b> |                  | 1              | 0.011 kg |
|                  |                               |                    |             | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | <b>781F.700-W0</b> |                  | 4              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>762F.700-W0</b> |                  | 2              | 0.012 kg |
|                  |                               |                    |             | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | <b>782F.700-W0</b> |                  | 3              | 0.012 kg |
|                  |                               |                    |             |                  |                 |                     |                    |                  |                |          |

| Front protection                                                                                                                                                        | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|--------------------|------------------|----------------|----------|
|  <p><b>Selector switch actuator 2 positions square, Front dimension 18 x 18 mm</b></p> |                               |                    |             |                  |                 |                     |                    |                  |                |          |
| IP 40                                                                                                                                                                   | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-0P</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                         |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>912F.700-0P</b> | 1                | 2              | 0.014 kg |
|                                                                                                                                                                         |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | PCB                 | <b>913F.700-0P</b> | 1                | 6              | 0.015 kg |
|                                                                                                                                                                         |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-00</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                         |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-00</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                         |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-00</b> |                  | 6              | 0.015 kg |
| IP 65                                                                                                                                                                   | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-WP</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                         |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-W0</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                         |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-W0</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                         |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-W0</b> |                  | 6              | 0.015 kg |

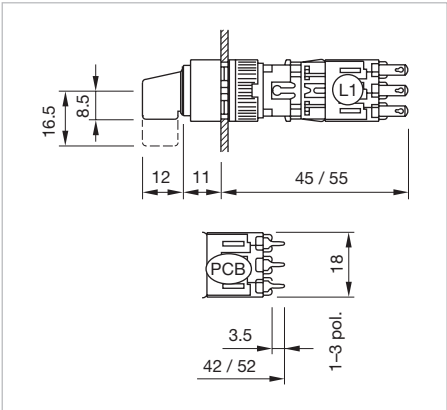
Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107



Selector switch 2 positions rectangular 18 x 24 mm



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

Equipment consisting of (schematic overview)

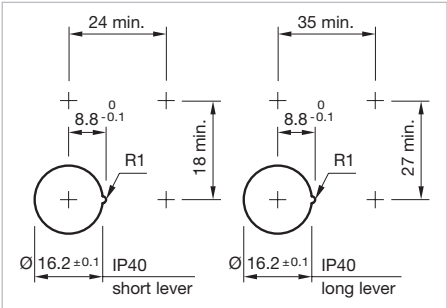
|  |                   |         |
|--|-------------------|---------|
|  | Lever             | page 86 |
|  | Front cap         | page 84 |
|  | Actuator          |         |
|  | Fixing nut        |         |
|  | Switching element |         |

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

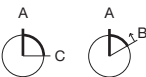
To obtain a complete unit, please select the red components from the pages shown.

Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

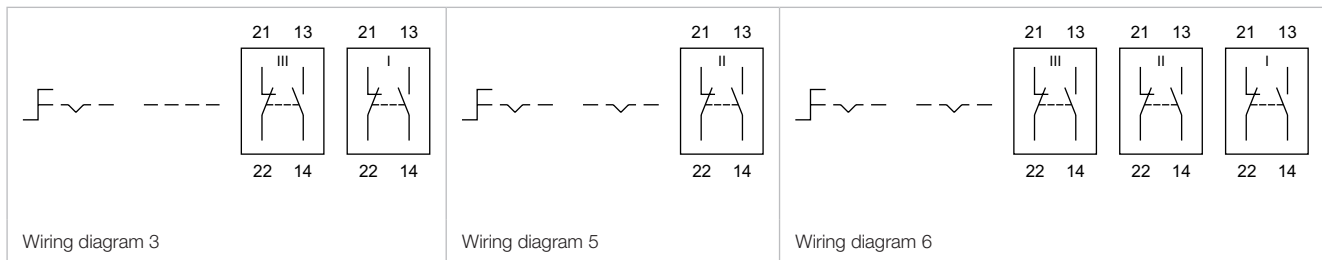
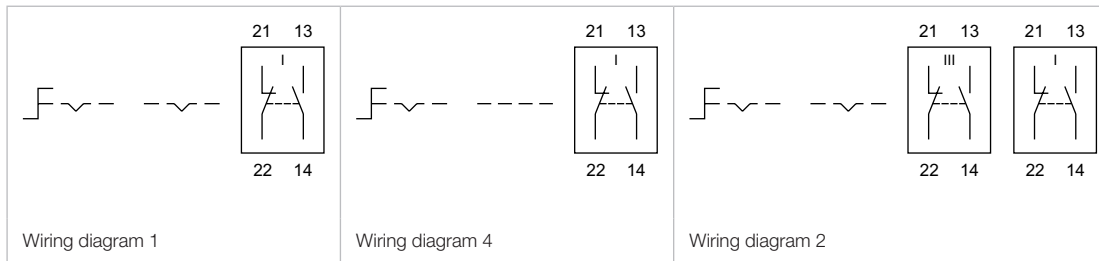


Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Terminal            | Part No.    | Component layout | Wiring diagram | Weight   |
|------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|-------------|------------------|----------------|----------|
|                  | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | 761F.700-0P | 1                | 1              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | 762F.700-0P | 1                | 2              | 0.012 kg |
|                  |                               |                    |             | A - B            | B = 60°         | PCB                 | 782F.700-0P | 1                | 3              | 0.012 kg |
|                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | 761F.700-00 |                  | 1              | 0.011 kg |
|                  |                               |                    |             | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | 781F.700-00 |                  | 4              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | 762F.700-00 |                  | 2              | 0.012 kg |
|                  | Snap-action switching element | 42 mm              |             | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | 782F.700-00 |                  | 3              | 0.012 kg |
|                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | 761F.700-WP | 1                | 1              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | 762F.700-WP | 1                | 2              | 0.012 kg |
|                  |                               | 45 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | 761F.700-W0 |                  | 1              | 0.011 kg |
|                  |                               |                    |             | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | 781F.700-W0 |                  | 4              | 0.011 kg |
|                  |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | 762F.700-W0 |                  | 2              | 0.012 kg |
|                  |                               |                    |             | A - B            | B = 60°         | Solder 2.8 x 0.5 mm | 782F.700-W0 |                  | 3              | 0.012 kg |

| Front protection                                                                                                                                                             | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|--------------------|------------------|----------------|----------|
|  <p><b>Selector switch actuator 2 positions rectangular, Front dimension 18 x 24 mm</b></p> |                               |                    |             |                  |                 |                     |                    |                  |                |          |
| IP 40                                                                                                                                                                        | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-0P</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                              |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>912F.700-0P</b> | 1                | 2              | 0.014 kg |
|                                                                                                                                                                              |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | PCB                 | <b>913F.700-0P</b> | 1                | 6              | 0.015 kg |
|                                                                                                                                                                              |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-00</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                              |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-00</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                              |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-00</b> |                  | 6              | 0.015 kg |
| IP 65                                                                                                                                                                        | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-WP</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                              |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-W0</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                              |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-W0</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                              |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-W0</b> |                  | 6              | 0.015 kg |

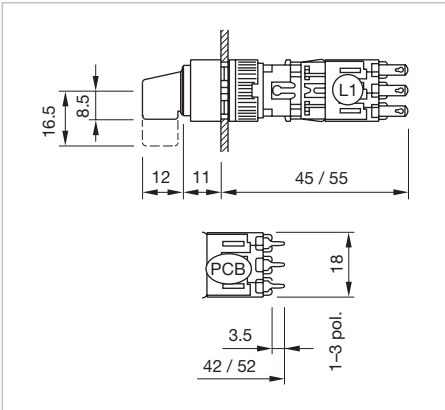
Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107



Selector switch 2 positions round Ø 24 mm



Product can differ from the current configuration.

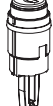


Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

Equipment consisting of (schematic overview)

**Lever**page 86

**Front cap**page 84

**Actuator**

**Fixing nut**

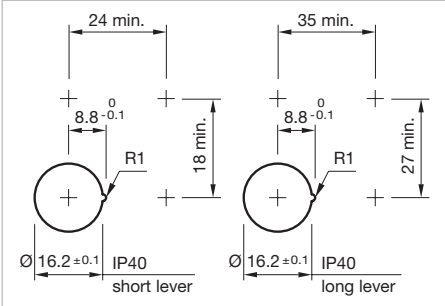
**Switching element**

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

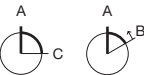
To obtain a complete unit, please select the red components from the pages shown.

Additional Information

- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]



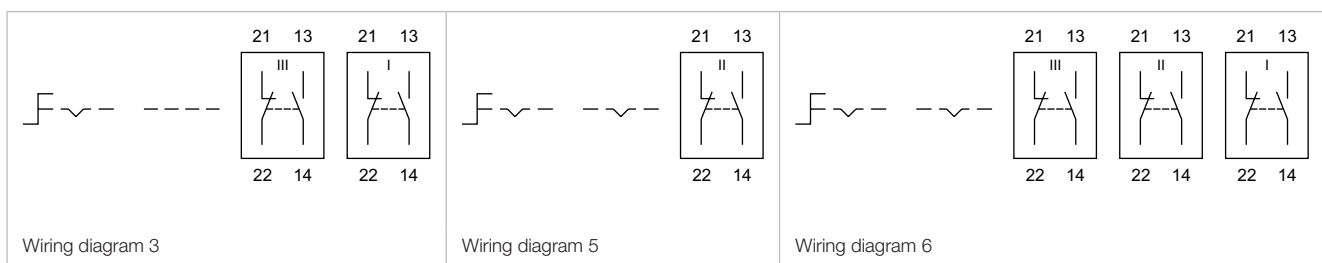
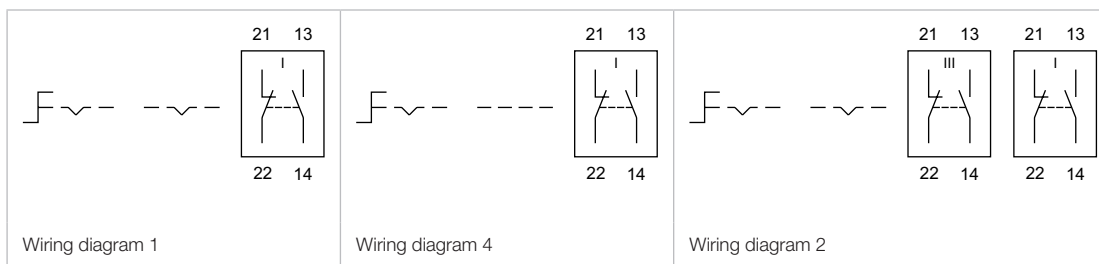
Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                                                                                                              | Switching system              | Behind panel depth | Contacts    | Switching action    | Switching angle | Terminal                      | Part No.           | Component layout | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|---------------------|-----------------|-------------------------------|--------------------|------------------|----------------|----------|
| <div></div> <div>Selector switch actuator 2 positions round, Front dimension Ø 24 mm</div> |                               |                    |             |                     |                 |                               |                    |                  |                |          |
| IP 40                                                                                                                                                                         | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C               | C = 90°         | PCB                           | <b>761F.700-0P</b> | 1                | 1              | 0.011 kg |
|                                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - C               | C = 90°         | PCB                           | <b>762F.700-0P</b> | 1                | 2              | 0.012 kg |
|                                                                                                                                                                               |                               |                    |             | A - B               | B = 60°         | PCB                           | <b>782F.700-0P</b> | 1                | 3              | 0.012 kg |
|                                                                                                                                                                               |                               | 45 mm              | 1 NC + 1 NO | A - C               | C = 90°         | Solder 2.8 x 0.5 mm           | <b>761F.700-00</b> |                  | 1              | 0.011 kg |
|                                                                                                                                                                               |                               |                    |             | A - B               | B = 60°         | Solder 2.8 x 0.5 mm           | <b>781F.700-00</b> |                  | 4              | 0.011 kg |
|                                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - C               | C = 90°         | Solder 2.8 x 0.5 mm           | <b>762F.700-00</b> |                  | 2              | 0.012 kg |
|                                                                                                                                                                               |                               |                    |             | A - B               | B = 60°         | Solder 2.8 x 0.5 mm           | <b>782F.700-00</b> |                  | 3              | 0.012 kg |
|                                                                                                                                                                               |                               |                    |             |                     | IP 65           | Snap-action switching element | 42 mm              | 1 NC + 1 NO      | A - C          | C = 90°  |
| 2 NC + 2 NO                                                                                                                                                                   | A - C                         | C = 90°            | PCB         | <b>762F.700-WP</b>  |                 |                               |                    | 1                | 2              | 0.012 kg |
| 45 mm                                                                                                                                                                         | 1 NC + 1 NO                   | A - C              | C = 90°     | Solder 2.8 x 0.5 mm |                 |                               | <b>761F.700-W0</b> |                  | 1              | 0.011 kg |
|                                                                                                                                                                               |                               | A - B              | B = 60°     | Solder 2.8 x 0.5 mm |                 |                               | <b>781F.700-W0</b> |                  | 4              | 0.011 kg |
|                                                                                                                                                                               | 2 NC + 2 NO                   | A - C              | C = 90°     | Solder 2.8 x 0.5 mm |                 |                               | <b>762F.700-W0</b> |                  | 2              | 0.012 kg |
|                                                                                                                                                                               |                               | A - B              | B = 60°     | Solder 2.8 x 0.5 mm |                 |                               | <b>782F.700-W0</b> |                  | 3              | 0.012 kg |



| Front protection                                                                                                                                                    | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|--------------------|------------------|----------------|----------|
|  <p><b>Selector switch actuator 2 positions round, Front dimension Ø 24 mm</b></p> |                               |                    |             |                  |                 |                     |                    |                  |                |          |
| IP 40                                                                                                                                                               | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-0P</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                     |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>912F.700-0P</b> | 1                | 2              | 0.014 kg |
|                                                                                                                                                                     |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | PCB                 | <b>913F.700-0P</b> | 1                | 6              | 0.015 kg |
|                                                                                                                                                                     |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-00</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                     |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-00</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                     |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-00</b> |                  | 6              | 0.015 kg |
| IP 65                                                                                                                                                               | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-WP</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                     |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-W0</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                     |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-W0</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                     |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-W0</b> |                  | 6              | 0.015 kg |

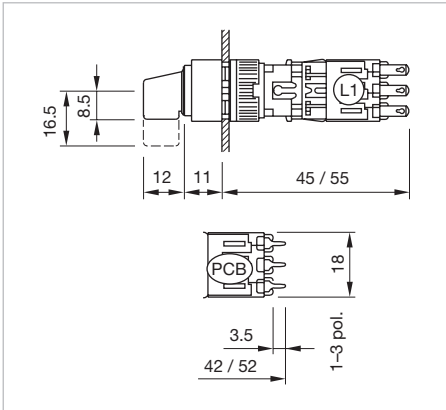
Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107



Selector switch 2 positions round Ø 18 mm

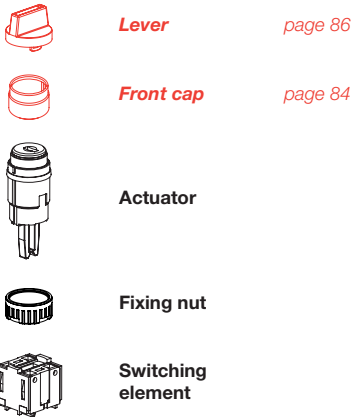


Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm,  
PCB = Print terminal

Equipment consisting of (schematic overview)

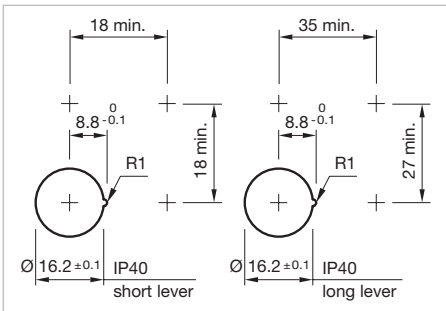


Each Part Number listed below includes all the black components shown in the 3D-drawing.

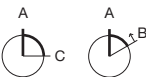
To obtain a complete unit, please select the red components from the pages shown.

Additional Information

- For the flush design please order the additional front bezel set, see chapter «Accessories»
- With IP 65 no anti-rotation device can be placed within the mounting cut-out. For rear-side mounting of the anti-rotation device, please see chapter «Accessories», Part No. 260-0020-00 or 260-0021-00



Mounting cut-outs [mm]

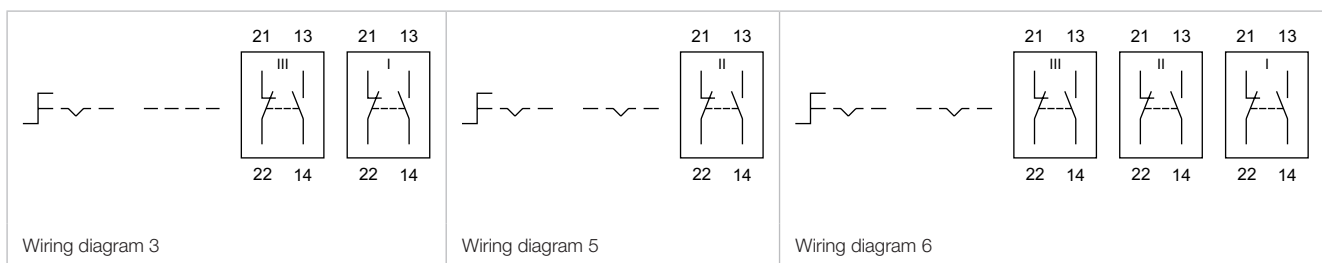
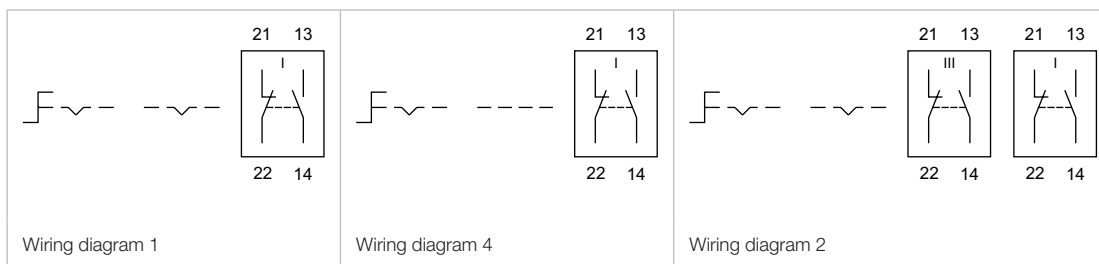


Switching positions (A = Rest, B = Momentary, C = Maintained)

| Front protection                                                                                                                                                              | Switching system              | Behind panel depth | Contacts    | Switching action    | Switching angle | Terminal                      | Part No.           | Component layout | Wiring diagram | Weight   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|---------------------|-----------------|-------------------------------|--------------------|------------------|----------------|----------|
| <div></div> <div>Selector switch actuator 2 positions round, Front dimension Ø 18 mm</div> |                               |                    |             |                     |                 |                               |                    |                  |                |          |
| IP 40                                                                                                                                                                         | Snap-action switching element | 42 mm              | 1 NC + 1 NO | A - C               | C = 90°         | PCB                           | <b>761F.700-0P</b> | 1                | 1              | 0.011 kg |
|                                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - C               | C = 90°         | PCB                           | <b>762F.700-0P</b> | 1                | 2              | 0.012 kg |
|                                                                                                                                                                               |                               |                    |             | A - B               | B = 60°         | PCB                           | <b>782F.700-0P</b> | 1                | 3              | 0.012 kg |
|                                                                                                                                                                               |                               | 45 mm              | 1 NC + 1 NO | A - C               | C = 90°         | Solder 2.8 x 0.5 mm           | <b>761F.700-00</b> |                  | 1              | 0.011 kg |
|                                                                                                                                                                               |                               |                    |             | A - B               | B = 60°         | Solder 2.8 x 0.5 mm           | <b>781F.700-00</b> |                  | 4              | 0.011 kg |
|                                                                                                                                                                               |                               |                    | 2 NC + 2 NO | A - C               | C = 90°         | Solder 2.8 x 0.5 mm           | <b>762F.700-00</b> |                  | 2              | 0.012 kg |
|                                                                                                                                                                               |                               |                    |             | A - B               | B = 60°         | Solder 2.8 x 0.5 mm           | <b>782F.700-00</b> |                  | 3              | 0.012 kg |
|                                                                                                                                                                               |                               |                    |             |                     | IP 65           | Snap-action switching element | 42 mm              | 1 NC + 1 NO      | A - C          | C = 90°  |
| 2 NC + 2 NO                                                                                                                                                                   | A - C                         | C = 90°            | PCB         | <b>762F.700-WP</b>  |                 |                               |                    | 1                | 2              | 0.012 kg |
| 45 mm                                                                                                                                                                         | 1 NC + 1 NO                   | A - C              | C = 90°     | Solder 2.8 x 0.5 mm |                 |                               | <b>761F.700-W0</b> |                  | 1              | 0.011 kg |
|                                                                                                                                                                               |                               | A - B              | B = 60°     | Solder 2.8 x 0.5 mm |                 |                               | <b>781F.700-W0</b> |                  | 4              | 0.011 kg |
|                                                                                                                                                                               | 2 NC + 2 NO                   | A - C              | C = 90°     | Solder 2.8 x 0.5 mm |                 |                               | <b>762F.700-W0</b> |                  | 2              | 0.012 kg |
|                                                                                                                                                                               |                               | A - B              | B = 60°     | Solder 2.8 x 0.5 mm |                 |                               | <b>782F.700-W0</b> |                  | 3              | 0.012 kg |

| Front protection                                                                                                                                                    | Switching system              | Behind panel depth | Contacts    | Switching action | Switching angle | Terminal            | Part No.           | Component layout | Wiring diagram | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|-----------------|---------------------|--------------------|------------------|----------------|----------|
|  <p><b>Selector switch actuator 2 positions round, Front dimension Ø 18 mm</b></p> |                               |                    |             |                  |                 |                     |                    |                  |                |          |
| IP 40                                                                                                                                                               | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-0P</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                     |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | PCB                 | <b>912F.700-0P</b> | 1                | 2              | 0.014 kg |
|                                                                                                                                                                     |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | PCB                 | <b>913F.700-0P</b> | 1                | 6              | 0.015 kg |
|                                                                                                                                                                     |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-00</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                     |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-00</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                     |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-00</b> |                  | 6              | 0.015 kg |
| IP 65                                                                                                                                                               | Snap-action switching element | 52 mm              | 1 NC + 1 NO | A - C            | C = 90°         | PCB                 | <b>911F.700-WP</b> | 1                | 5              | 0.013 kg |
|                                                                                                                                                                     |                               | 55 mm              | 1 NC + 1 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>911F.700-W0</b> |                  | 5              | 0.013 kg |
|                                                                                                                                                                     |                               |                    | 2 NC + 2 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>912F.700-W0</b> |                  | 2              | 0.014 kg |
|                                                                                                                                                                     |                               |                    | 3 NC + 3 NO | A - C            | C = 90°         | Solder 2.8 x 0.5 mm | <b>913F.700-W0</b> |                  | 6              | 0.015 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary, C = Maintained  
The component layouts you will find from page 107

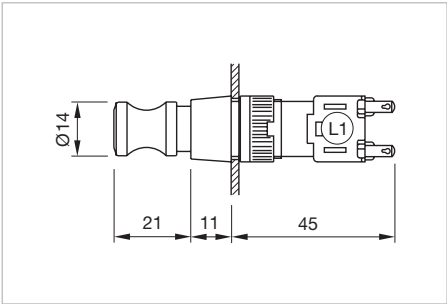


55 Raised design

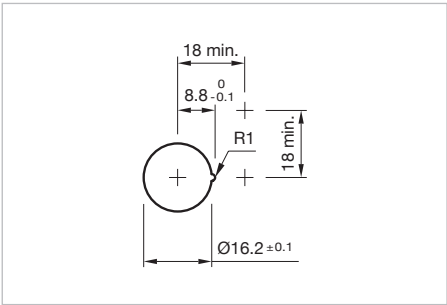
Illuminated push-pull button, IP 40



Product can differ from the current configuration.



Dimensions [mm]  
L1 = Solder terminal 2.8 x 0.5 mm



Mounting cut-outs [mm]

Equipment consisting of (schematic overview)

**Push-pull knob** *page 68*

**LED** *page 82*

**Actuator**

**Fixing nut**

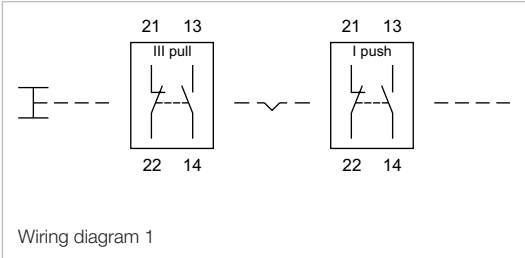
**Switching element**

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.

| Front bezel                                                                                                                                                                       | Switching system              | Behind panel depth | Contacts    | Switching action | Terminal            | Lamp socket | Part No.           | Wiring diagram | Weight   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------|------------------|---------------------|-------------|--------------------|----------------|----------|
| <div><div>Illuminated push-pull pushbutton actuator 45 mm, Front dimension Ø 18 mm</div></div> |                               |                    |             |                  |                     |             |                    |                |          |
| Plastic grey                                                                                                                                                                      | Snap-action switching element | 45 mm              | 2 NC + 2 NO | B - A - B        | Solder 2.8 x 0.5 mm | T1 ¼ MG     | <b>792F1000-00</b> | 1              | 0.015 kg |
| Plastic black                                                                                                                                                                     | Snap-action switching element | 45 mm              | 2 NC + 2 NO | B - A - B        | Solder 2.8 x 0.5 mm | T1 ¼ MG     | <b>792F2000-00</b> | 1              | 0.015 kg |

Contacts: NC = Normally closed, NO = Normally open  
Switching action: A = Rest, B = Momentary  
The component layouts you will find from page 107



Wiring diagram 1

**Lens plastic****Additional Information**

- For indicator and illuminated pushbutton, 35 mm

| Product attribute                                                                                                                  | Dimension      | Lens               | Part No.    | Weight   |
|------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|-------------|----------|
| <div></div> <div>Lens plastic square</div>        |                |                    |             |          |
| for button with front dimension 18 x 18 mm, flat, illuminative                                                                     | 15.2 x 15.2 mm | orange translucent | 600-3110-00 | 0.001 kg |
|                                                                                                                                    |                | red translucent    | 600-3120-00 | 0.001 kg |
|                                                                                                                                    |                | green translucent  | 600-3140-00 | 0.001 kg |
|                                                                                                                                    |                | blue translucent   | 600-3150-00 | 0.001 kg |
|                                                                                                                                    |                | white translucent  | 600-3160-00 | 0.001 kg |
|                                                                                                                                    |                | yellow translucent | 600-3170-00 | 0.001 kg |
| for button with front dimension 18 x 18 mm, flat, non illuminative                                                                 | 15.2 x 15.2 mm | grey opaque        | 600-3180-00 | 0.001 kg |
|                                                                                                                                    |                | schwarz opak       | 600-3190-00 | 0.001 kg |
| <div></div> <div>Lens plastic rectangular</div> |                |                    |             |          |
| for button with front dimension 18 x 24 mm, flat, illuminative                                                                     | 15.2 x 21.2 mm | orange translucent | 600-5110-00 | 0.001 kg |
|                                                                                                                                    |                | red translucent    | 600-5120-00 | 0.001 kg |
|                                                                                                                                    |                | green translucent  | 600-5140-00 | 0.001 kg |
|                                                                                                                                    |                | blue translucent   | 600-5150-00 | 0.001 kg |
|                                                                                                                                    |                | white translucent  | 600-5160-00 | 0.001 kg |
|                                                                                                                                    |                | yellow translucent | 600-5170-00 | 0.001 kg |
| for button with front dimension 18 x 24 mm, flat, non illuminative                                                                 | 15.2 x 21.2 mm | black opaque       | 600-5190-00 | 0.001 kg |
| <div></div> <div>Lens plastic round</div>       |                |                    |             |          |
| for button with front dimension Ø 18 mm, flat, illuminative                                                                        | Ø 15.2 mm      | orange translucent | 600-1110-00 | 0.001 kg |
|                                                                                                                                    |                | red translucent    | 600-1120-00 | 0.001 kg |
|                                                                                                                                    |                | green translucent  | 600-1140-00 | 0.001 kg |
|                                                                                                                                    |                | blue translucent   | 600-1150-00 | 0.001 kg |
|                                                                                                                                    |                | white translucent  | 600-1160-00 | 0.001 kg |
|                                                                                                                                    |                | yellow translucent | 600-1170-00 | 0.001 kg |
| for button with front dimension Ø 18 mm, flat, non illuminative                                                                    | Ø 15.2 mm      | grey opaque        | 600-1180-00 | 0.001 kg |
|                                                                                                                                    |                | black opaque       | 600-1190-00 | 0.001 kg |

## Lens plastic IP40/IP65

### Additional Information

- Lens IP 65 is supplied with fitted sealing gland.

| Product attribute                                                                                            | Front protection | Dimension      | Lens               | Part No.           | Weight   |
|--------------------------------------------------------------------------------------------------------------|------------------|----------------|--------------------|--------------------|----------|
|  <b>Lens plastic square</b> |                  |                |                    |                    |          |
| for button with front dimension 24 x 24 mm, flat, illuminative                                               | IP 40            | 20.8 x 20.8 mm | orange translucent | <b>200-9110-00</b> | 0.001 kg |
|                                                                                                              |                  |                | red translucent    | <b>200-9120-00</b> | 0.001 kg |
|                                                                                                              |                  |                | green translucent  | <b>200-9140-00</b> | 0.001 kg |
|                                                                                                              |                  |                | blue translucent   | <b>200-9150-00</b> | 0.001 kg |
|                                                                                                              |                  |                | white translucent  | <b>200-9160-00</b> | 0.001 kg |
|                                                                                                              |                  |                | yellow translucent | <b>200-9170-00</b> | 0.001 kg |
|                                                                                                              |                  |                | red transparent    | <b>200-7220-00</b> | 0.001 kg |
| or button with front dimension 24 x 24 mm, flat, non illuminative                                            | IP 40            | 20.8 x 20.8 mm | black opaque       | <b>200-9190-00</b> | 0.001 kg |
| or button with front dimension 24 x 24 mm, flat, illuminative                                                | IP 40            | 20.8 x 20.8 mm | orange transparent | <b>200-9210-00</b> | 0.001 kg |
|                                                                                                              |                  |                | red transparent    | <b>200-9220-00</b> | 0.001 kg |
|                                                                                                              |                  |                | green transparent  | <b>200-9240-00</b> | 0.001 kg |
|                                                                                                              |                  |                | white transparent  | <b>200-9260-00</b> | 0.001 kg |
|                                                                                                              |                  |                | yellow transparent | <b>200-9270-00</b> | 0.001 kg |

| Product attribute                                                                                                   | Front protection | Dimension      | Lens               | Part No.           | Weight   |
|---------------------------------------------------------------------------------------------------------------------|------------------|----------------|--------------------|--------------------|----------|
|  <b>Lens plastic square</b>        |                  |                |                    |                    |          |
| for button with front dimension 24 x 24 mm,<br>flat, illuminative                                                   | IP 65            | 20.8 x 20.8 mm | red translucent    | <b>200-9120-W0</b> | 0.002 kg |
|                                                                                                                     |                  |                | green translucent  | <b>200-9140-W0</b> | 0.002 kg |
|                                                                                                                     |                  |                | blue translucent   | <b>200-9150-W0</b> | 0.002 kg |
|                                                                                                                     |                  |                | white translucent  | <b>200-9160-W0</b> | 0.002 kg |
|                                                                                                                     |                  |                | yellow translucent | <b>200-9170-W0</b> | 0.002 kg |
|                                                                                                                     |                  |                | red transparent    | <b>200-9220-W0</b> | 0.002 kg |
|                                                                                                                     |                  |                | green transparent  | <b>200-9240-W0</b> | 0.002 kg |
|                                                                                                                     |                  |                | white transparent  | <b>200-9260-W0</b> | 0.002 kg |
|  <b>Lens plastic square</b>        |                  |                |                    |                    |          |
| for button with front dimension 18 x 18 mm,<br>flat, illuminative                                                   | IP 40            | 15.2 x 15.2 mm | orange translucent | <b>200-3110-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | red translucent    | <b>200-3120-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | green translucent  | <b>200-3140-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | blue translucent   | <b>200-3150-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | white translucent  | <b>200-3160-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | yellow translucent | <b>200-3170-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | orange transparent | <b>200-3210-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | red transparent    | <b>200-3220-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | green transparent  | <b>200-3240-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | blue transparent   | <b>200-3250-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | white transparent  | <b>200-3260-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | yellow transparent | <b>200-3270-00</b> | 0.001 kg |
| for button with front dimension 18 x 18 mm,<br>flat, non illuminative                                               | IP 40            | 15.2 x 15.2 mm | black opaque       | <b>200-3190-00</b> | 0.001 kg |
|  <b>Lens plastic rectangular</b> |                  |                |                    |                    |          |
| for button with front dimension 18 x 24 mm,<br>flat, illuminative                                                   | IP 40            | 15.2 x 21.2 mm | orange transparent | <b>200-5210-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | red transparent    | <b>200-5220-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | green transparent  | <b>200-5240-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | blue transparent   | <b>200-5250-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | white transparent  | <b>200-5260-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | yellow transparent | <b>200-5270-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | orange translucent | <b>200-5110-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | red translucent    | <b>200-5120-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | green translucent  | <b>200-5140-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | blue translucent   | <b>200-5150-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | white translucent  | <b>200-5160-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | yellow translucent | <b>200-5170-00</b> | 0.001 kg |
| for button with front dimension 18 x 24 mm,<br>flat, non illuminative                                               | IP 40            | 15.2 x 21.2 mm | grey opaque        | <b>200-5180-00</b> | 0.001 kg |
|                                                                                                                     |                  |                | black opaque       | <b>200-5190-00</b> | 0.001 kg |

| Product attribute                                                                                                           | Front protection | Dimension | Lens                                                            | Part No.    | Weight    |
|-----------------------------------------------------------------------------------------------------------------------------|------------------|-----------|-----------------------------------------------------------------|-------------|-----------|
| <div></div> <div>Lens plastic round</div>  |                  |           |                                                                 |             |           |
| for button with front dimension Ø 24 mm, flat, illuminative                                                                 | IP 40            | Ø 20.8 mm | orange translucent                                              | 200-7110-00 | 0.001 kg  |
|                                                                                                                             |                  |           | red translucent                                                 | 200-7120-00 | 0.001 kg  |
|                                                                                                                             |                  |           | green translucent                                               | 200-7140-00 | 0.001 kg  |
|                                                                                                                             |                  |           | blue translucent                                                | 200-7150-00 | 0.001 kg  |
|                                                                                                                             |                  |           | white translucent                                               | 200-7160-00 | 0.001 kg  |
|                                                                                                                             |                  |           | yellow translucent                                              | 200-7170-00 | 0.001 kg  |
| for button with front dimension Ø 24 mm, flat, non illuminative                                                             | IP 40            | Ø 20.8 mm | black opaque                                                    | 200-7190-00 | 0.001 kg  |
| <div></div> <div>Lens plastic round</div>  |                  |           |                                                                 |             |           |
| for button with front dimension Ø 24 mm, flat, illuminative                                                                 | IP 65            | Ø 20.8 mm | green translucent                                               | 200-7140-W0 | 0.002 kg  |
|                                                                                                                             |                  |           | white translucent                                               | 200-7160-W0 | 0.002 kg  |
|                                                                                                                             |                  |           | red transparent                                                 | 200-7220-W0 | 0.002 kg  |
|                                                                                                                             |                  |           | green transparent                                               | 200-7240-W0 | 0.002 kg  |
| <div></div> <div>Lens plastic round</div> |                  |           |                                                                 |             |           |
| for button with front dimension Ø 18 mm, flat, illuminative                                                                 | IP 40            | Ø 15.2 mm | orange translucent                                              | 200-1110-00 | 0.001 kg  |
|                                                                                                                             |                  |           | red translucent                                                 | 200-1120-00 | 0.001 kg  |
|                                                                                                                             |                  |           | green translucent                                               | 200-1140-00 | 0.001 kg  |
|                                                                                                                             |                  |           | blue translucent                                                | 200-1150-00 | 0.001 kg  |
|                                                                                                                             |                  |           | white translucent                                               | 200-1160-00 | 0.001 kg  |
|                                                                                                                             |                  |           | yellow translucent                                              | 200-1170-00 | 0.001 kg  |
|                                                                                                                             |                  |           | red transparent                                                 | 200-1220-00 | 0.001 kg  |
|                                                                                                                             |                  |           | green transparent                                               | 200-1240-00 | 0.001 kg  |
|                                                                                                                             |                  |           | blue transparent                                                | 200-1250-00 | 0.001 kg  |
|                                                                                                                             |                  |           | white transparent                                               | 200-1260-00 | 0.001 kg  |
|                                                                                                                             |                  |           | wellow transparent                                              | 200-1270-00 | 0.001 kg  |
|                                                                                                                             |                  |           | for button with front dimension Ø 18 mm, flat, non illuminative | IP 40       | Ø 15.2 mm |
| black opaque                                                                                                                | 200-1190-00      | 0.001 kg  |                                                                 |             |           |



## Front bezel for keylock switch and selector switch 2 positions

## Additional Information

- Front bezel and switch will be delivered assembled

| Product attribute                                                                                                                                                               | Marking         | Material | Colour | Part No.           | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|--------|--------------------|----------|
|  <b>Front bezel for keylock switch and selector switch 2 positions square, 18 x 18 mm</b>      |                 |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking | Plastic  | grey   | <b>200-3004-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                 |          | black  | <b>200-4004-00</b> | 0.002 kg |
| for Part No. 761-xxx ... 772-xxx   911-xxx ... 925-xxx   811-xxx ... 825-xxx                                                                                                    | 0 - I (90°)     | Plastic  | black  | <b>200-4001-00</b> | 0.002 kg |
| for Part No. 781-xxx   782-xxx   931-xxx ... 935- xxx   831-xxx ... 835-xxx                                                                                                     | 0 - I (60°)     | Plastic  | black  | <b>200-4001-01</b> | 0.002 kg |
|  <b>Front bezel for keylock switch and selector switch 2 positions rectangular, 18 x 24 mm</b> |                 |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking | Plastic  | black  | <b>200-6004-00</b> | 0.002 kg |
| for Part No. 761-xxx ... 772-xxx   911-xxx ... 925-xxx   811-xxx ... 825-xxx                                                                                                    | 0 - I (90°)     | Plastic  | grey   | <b>200-5001-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                 |          | black  | <b>200-6001-00</b> | 0.002 kg |
| for Part No. 781-xxx   782-xxx   931-xxx ... 935- xxx   831-xxx ... 835-xxx                                                                                                     | 0 - I (60°)     | Plastic  | black  | <b>200-6001-01</b> | 0.002 kg |
|  <b>Front bezel for keylock switch and selector switch 2 positions round, 18 mm</b>          |                 |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking | Plastic  | grey   | <b>200-1004-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                 |          | black  | <b>200-2004-00</b> | 0.002 kg |
| for Part No. 761-xxx ... 772-xxx   911-xxx ... 925-xxx   811-xxx ... 825-xxx                                                                                                    | 0 - I (90°)     | Plastic  | grey   | <b>200-1001-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                 |          | black  | <b>200-2001-00</b> | 0.002 kg |
| for Part No. 781-xxx   782-xxx   931-xxx ... 935- xxx   831-xxx ... 835-xxx                                                                                                     | 0 - I (60°)     | Plastic  | black  | <b>200-2001-01</b> | 0.002 kg |
|  <b>Front bezel for keylock switch and selector switch 2 positions square, 24 x 24 mm</b>    |                 |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking | Plastic  | grey   | <b>200-9004-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                 |          | black  | <b>200-0004-00</b> | 0.002 kg |
| for Part No. 761-xxx ... 772-xxx   911-xxx ... 925-xxx   811-xxx ... 825-xxx                                                                                                    | 0 - I (90°)     | Plastic  | grey   | <b>200-9001-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                 |          | black  | <b>200-0001-00</b> | 0.002 kg |
| for Part No. 781-xxx   782-xxx   931-xxx ... 935- xxx   831-xxx ... 835-xxx                                                                                                     | 0 - I (60°)     | Plastic  | black  | <b>200-0001-01</b> | 0.002 kg |
|  <b>Front bezel for keylock switch and selector switch 2 positions round, 24 mm</b>          |                 |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking | Plastic  | black  | <b>200-8004-00</b> | 0.002 kg |
| for Part No. 761-xxx ... 772-xxx   911-xxx ... 925-xxx   811-xxx ... 825-xxx                                                                                                    | 0 - I (90°)     | Plastic  | grey   | <b>200-7001-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                 |          | black  | <b>200-8001-00</b> | 0.002 kg |
| for Part No. 781-xxx   782-xxx   931-xxx ... 935- xxx   831-xxx ... 835-xxx                                                                                                     | 0 - I (60°)     | Plastic  | black  | <b>200-8001-01</b> | 0.002 kg |

## Front bezel for keylock switch and selector switch 3 positions

### Additional Information

- Front bezel and switch will be delivered assembled

| Product attribute                                                                                                                                                               | Marking                | Material | Colour | Part No.           | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|--------|--------------------|----------|
|  <b>Front bezel for keylock switch and selector switch 3 positions square, 18 x 18 mm</b>      |                        |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking        | Plastic  | grey   | <b>200-3004-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                        |          | black  | <b>200-4004-00</b> | 0.002 kg |
| for Part No. 712-xxx                                                                                                                                                            | I (90°) - 0 - II (90°) | Plastic  | grey   | <b>200-3002-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                        |          | black  | <b>200-4002-00</b> | 0.002 kg |
| for Part No. 722-xxx                                                                                                                                                            | 0 (90°) - I - II (90°) | Plastic  | black  | <b>200-4003-00</b> | 0.002 kg |
| for Part No. 732-xxx                                                                                                                                                            | I (60°) - 0 - II (60°) | Plastic  | black  | <b>200-4002-02</b> | 0.002 kg |
|  <b>Front bezel for keylock switch and selector switch 3 positions rectangular, 18 x 24 mm</b> |                        |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking        | Plastic  | black  | <b>200-6004-00</b> | 0.002 kg |
| for Part No. 712-xxx                                                                                                                                                            | I (90°) - 0 - II (90°) | Plastic  | grey   | <b>200-5002-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                        |          | black  | <b>200-6002-00</b> | 0.002 kg |
| for Part No. 722-xxx                                                                                                                                                            | 0 (90°) - I - II (90°) | Plastic  | grey   | <b>200-5003-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                        |          | black  | <b>200-6003-00</b> | 0.002 kg |
| for Part No. 732-xxx                                                                                                                                                            | I (60°) - 0 - II (60°) | Plastic  | black  | <b>200-6002-02</b> | 0.002 kg |
| for Part No. 742-xxx                                                                                                                                                            | I (90°) - 0 - II (60°) | Plastic  | black  | <b>200-6002-03</b> | 0.002 kg |
| for Part No. 752-xxx                                                                                                                                                            | I (60°) - 0 - II (90°) | Plastic  | black  | <b>200-6002-04</b> | 0.002 kg |
|  <b>Front bezel for keylock switch and selector switch 3 positions round, 18 mm</b>          |                        |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking        | Plastic  | grey   | <b>200-1004-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                        |          | black  | <b>200-2004-00</b> | 0.002 kg |
| for Part No. 712-xxx                                                                                                                                                            | I (90°) - 0 - II (90°) | Plastic  | black  | <b>200-2002-00</b> | 0.002 kg |
| for Part No. 722-xxx                                                                                                                                                            | 0 (90°) - I - II (90°) | Plastic  | black  | <b>200-2003-00</b> | 0.002 kg |
| for Part No. 732-xxx                                                                                                                                                            | I (60°) - 0 - II (60°) | Plastic  | black  | <b>200-2002-02</b> | 0.002 kg |
| for Part No. 742-xxx                                                                                                                                                            | I (90°) - 0 - II (60°) | Plastic  | black  | <b>200-2002-03</b> | 0.002 kg |
|  <b>Front bezel for keylock switch and selector switch 3 positions square, 24 x 24 mm</b>    |                        |          |        |                    |          |
| fits for all Part No.                                                                                                                                                           | without marking        | Plastic  | grey   | <b>200-9004-00</b> | 0.002 kg |
|                                                                                                                                                                                 |                        |          | black  | <b>200-0004-00</b> | 0.002 kg |
| for Part No. 712-xxx                                                                                                                                                            | I (90°) - 0 - II (90°) | Plastic  | black  | <b>200-0002-00</b> | 0.002 kg |
| for Part No. 722-xxx                                                                                                                                                            | 0 (90°) - I - II (90°) | Plastic  | grey   | <b>200-9003-00</b> | 0.002 kg |
| for Part No. 732-xxx                                                                                                                                                            | I (60°) - 0 - II (60°) | Plastic  | black  | <b>200-0002-02</b> | 0.002 kg |

| Product attribute                                                                                                                                                    | Marking                | Material | Colour | Part No.           | Weight   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|--------|--------------------|----------|
|  <b>Front bezel for keylock switch and selector switch 3 positions round, 24 mm</b> |                        |          |        |                    |          |
| fits for all Part No.                                                                                                                                                | without marking        | Plastic  | black  | <b>200-8004-00</b> | 0.002 kg |
| for Part No. 712-xxx                                                                                                                                                 | I (90°) - 0 - II (90°) | Plastic  | black  | <b>200-8002-00</b> | 0.002 kg |
| for Part No. 722-xxx                                                                                                                                                 | 0 (90°) - I - II (90°) | Plastic  | grey   | <b>200-7003-00</b> | 0.002 kg |
|                                                                                                                                                                      |                        |          | black  | <b>200-8003-00</b> | 0.002 kg |
| for Part No. 732-xxx                                                                                                                                                 | I (60°) - 0 - II (60°) | Plastic  | black  | <b>200-8002-02</b> | 0.002 kg |
| for Part No. 742-xxx                                                                                                                                                 | I (90°) - 0 - II (60°) | Plastic  | black  | <b>200-8002-03</b> | 0.002 kg |

## Lever

### Additional Information

- Lever and switch will be delivered assembled

| Lever                                                                                            | Part No.           | Weight   |
|--------------------------------------------------------------------------------------------------|--------------------|----------|
|  <b>Lever</b> |                    |          |
| Plastic chrome short                                                                             | <b>200-.604-00</b> | 0.001 kg |
| Plastic black short                                                                              | <b>200-.704-00</b> | 0.001 kg |

| Lever                                                                                            | Part No.           | Weight   |
|--------------------------------------------------------------------------------------------------|--------------------|----------|
|  <b>Lever</b> |                    |          |
| Plastic chrome long                                                                              | <b>200-.804-00</b> | 0.001 kg |
| Plastic black long                                                                               | <b>200-.904-00</b> | 0.001 kg |

## Buzzer element

| Product attribute                                                                                                      | Dimension      | Operating voltage | Colour | Part No.    | Weight   |
|------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|--------|-------------|----------|
| <div></div> <div>Buzzer element</div> |                |                   |        |             |          |
| for button with front dimension 24 x 24 mm                                                                             | 20.8 x 20.8 mm | 12 VAC/DC         | black  | 970-0012-00 | 0.004 kg |
|                                                                                                                        |                | 24 VAC/DC         | grey   | 970-9024-00 | 0.004 kg |
|                                                                                                                        |                |                   | black  | 970-0024-00 | 0.004 kg |
| <div></div> <div>Buzzer element</div> |                |                   |        |             |          |
| for button with front dimension 18 x 24 mm                                                                             | 15.2 x 21.2 mm | 12 VAC/DC         | grey   | 970-5012-00 | 0.004 kg |
|                                                                                                                        |                |                   | black  | 970-6012-00 | 0.004 kg |
|                                                                                                                        |                | 24 VAC/DC         | grey   | 970-5024-00 | 0.004 kg |
|                                                                                                                        |                |                   | black  | 970-6024-00 | 0.004 kg |

## Push-pull knob

| Lever                                                                                                     | Part No.           | Weight   |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------|
|  <b>Push-pull knob</b> |                    |          |
| red transparent                                                                                           | <b>200-.225-00</b> | 0.003 kg |
| green transparent                                                                                         | <b>200-.245-00</b> | 0.003 kg |
| blue transparent                                                                                          | <b>200-.255-00</b> | 0.003 kg |
| white transparent                                                                                         | <b>200-.265-00</b> | 0.003 kg |
| yellow transparent                                                                                        | <b>200-.275-00</b> | 0.003 kg |

**Front bezel****Additional Information**

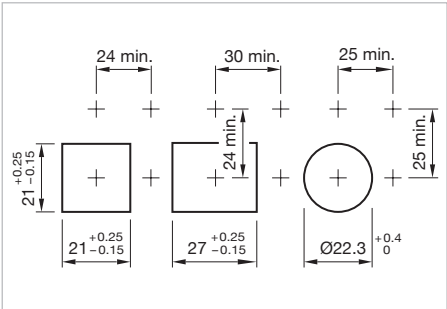
- Front bezel IP 65 is supplied with fitted sealing ring.

| Product attribute                                                                                                            | Front protection | Front bezel   | Part No.           | Weight   |
|------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|--------------------|----------|
|  <b>Front bezel square, 18 x 18 mm</b>      | IP 40            | Plastic grey  | <b>200-3000-00</b> | 0.002 kg |
|                                                                                                                              |                  | Plastic black | <b>200-4000-00</b> | 0.002 kg |
|  <b>Front bezel rectangular, 18 x 24 mm</b> | IP 40            | Plastic grey  | <b>200-5000-00</b> | 0.002 kg |
|                                                                                                                              |                  | Plastic black | <b>200-6000-00</b> | 0.002 kg |
|  <b>Front bezel round, 18 mm</b>           | IP 40            | Plastic grey  | <b>200-1000-00</b> | 0.002 kg |
|                                                                                                                              |                  | Plastic black | <b>200-2000-00</b> | 0.002 kg |
|  <b>Front bezel square, 24 x 24 mm</b>    | IP 40            | Plastic grey  | <b>200-9000-00</b> | 0.002 kg |
|                                                                                                                              |                  | Plastic black | <b>200-0000-00</b> | 0.002 kg |
|                                                                                                                              | IP 65            | Plastic grey  | <b>200-9000-W0</b> | 0.002 kg |
|                                                                                                                              |                  | Plastic black | <b>200-0000-W0</b> | 0.002 kg |
|  <b>Front bezel round, 24 mm</b>          | IP 40            | Plastic grey  | <b>200-7000-00</b> | 0.002 kg |
|                                                                                                                              |                  | Plastic black | <b>200-8000-00</b> | 0.002 kg |
|                                                                                                                              | IP 65            | Plastic grey  | <b>200-7000-W0</b> | 0.002 kg |
|                                                                                                                              |                  | Plastic black | <b>200-8000-W0</b> | 0.002 kg |

Front bezel set, flush design, IP 65

Additional Information

- By using these sets, raised pushbuttons can be built in «flat» into operator panels. Please refer to the respective note with each pushbutton
- The mounting depth is increased by 9 mm because of the bezel set



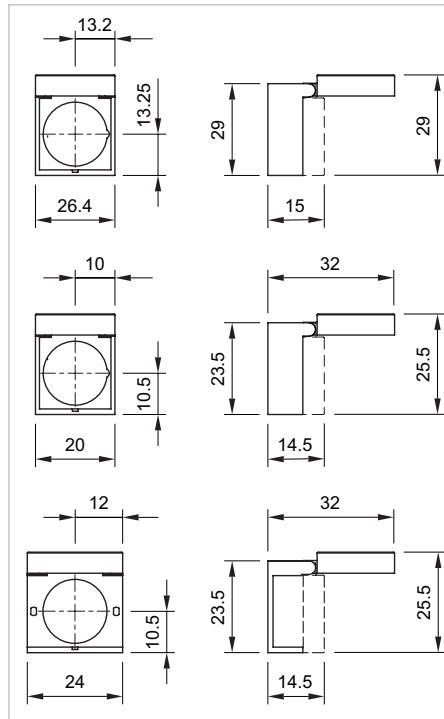
Mounting cut-outs [mm]

| Product attribute                                                                                                                      | Dimension  | Front bezel   | Part No.           | Weight   |
|----------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|--------------------|----------|
| <br><b>Front bezel set, flush design square</b>       |            |               |                    |          |
| for button 18 x 18 mm with mounting cut-out 21 x 21 mm                                                                                 | 24 x 24 mm | Plastic black | <b>61-9930.0</b>   | 0.007 kg |
| <br><b>Front bezel set, flush design rectangular</b> |            |               |                    |          |
| for button 18 x 24 mm with mounting cut-out 21 x 27 mm                                                                                 | 24 x 30 mm | Plastic black | <b>61-9931.0</b>   | 0.008 kg |
| <br><b>Front bezel set, flush design round</b>      |            |               |                    |          |
| for button Ø 18 mm with mounting cut-out Ø 22.5 mm                                                                                     | Ø 25 mm    | Plastic black | <b>200-8400-V0</b> | 0.006 kg |

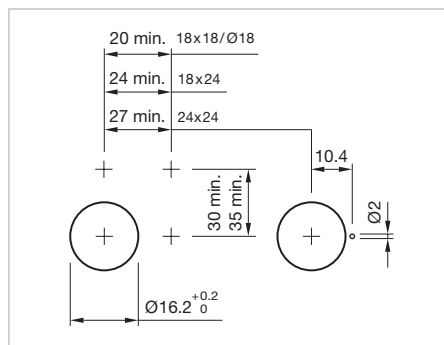
### Protective cover raised design

### Additional Information

- Hinged, with means for sealing



Dimensions [mm]



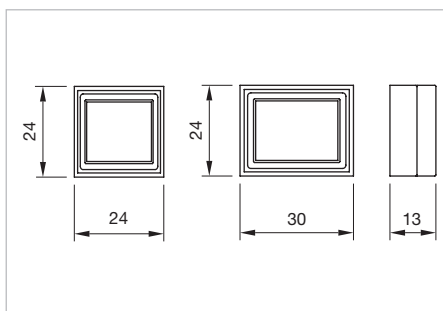
Mounting cut-outs [mm]

| Product attribute                                                                                                                                                                                | Front protection | Dimension | Material | Optic | Part No. | Weight |       |              |         |             |                  |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|----------|-------|----------|--------|-------|--------------|---------|-------------|------------------|----------|
| <div></div> <div><b>Protective cover</b></div> <div>for button 24 x 24 mm with mounting cut-out Ø 16 mm</div> |                  |           |          |       |          |        | IP 65 | 26.5 x 29 mm | Plastic | transparent | <b>61-9920.0</b> | 0.006 kg |
| <div></div> <div><b>Protective cover</b></div> <div>for button 18 x 18 mm with mounting cut-out Ø 16 mm</div> |                  |           |          |       |          |        | IP 65 | 20 x 23.5 mm | Plastic | transparent | <b>51-920</b>    | 0.002 kg |
| <div></div> <div><b>Protective cover</b></div> <div>for button 18 x 24 mm with mounting cut-out Ø 16 mm</div> |                  |           |          |       |          |        | IP 65 | 24 x 23.5 mm | Plastic | transparent | <b>51-925</b>    | 0.002 kg |

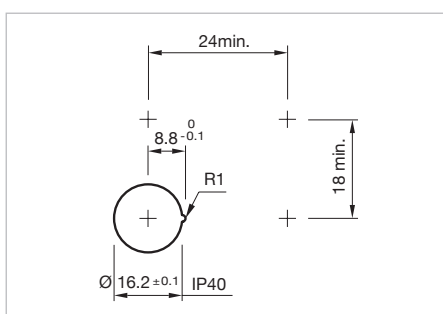
## Front protective cap, IP 65

### Additional Information

- Two-part, illumination exchangeable from the front
- Front panel thickness reduces by 1 mm
- Please note that bigger minimum distances are necessary



Dimensions [mm]



Mounting cut-outs [mm]

| Product attribute                                                                                              | Dimension  | Material    | Colour     | Optic       | Part No.        | Weight   |
|----------------------------------------------------------------------------------------------------------------|------------|-------------|------------|-------------|-----------------|----------|
|  <b>Front protective cap</b> |            |             |            |             |                 |          |
| for button 18 x 18 mm with mounting cut-out Ø 16 mm                                                            | 24 x 24 mm | PE/Silicone | colourless | transparent | <b>31-923</b>   | 0.003 kg |
| for button 18 x 24 mm with mounting cut-out Ø 16 mm                                                            | 24 x 30 mm | PE/Silicone | colourless | transparent | <b>31-924.2</b> | 0.003 kg |

## Protective guard for illuminated pushbutton

| Product attribute                                                                                                                                  | Dimension  | Material  | Colour           | Part No.           | Weight   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------------------|--------------------|----------|
|  <b>Protective guard for illuminated pushbutton square</b>      |            |           |                  |                    |          |
| for button 18 x 18 mm with mounting cut-out Ø16 mm                                                                                                 | 18 x 18 mm | Aluminium | natural anodized | <b>200-3007-00</b> | 0.002 kg |
|  <b>Protective guard for illuminated pushbutton rectangular</b> |            |           |                  |                    |          |
| for button 18 x 24 mm with mounting cut-out Ø16 mm                                                                                                 | 18 x 24 mm | Aluminium | natural anodized | <b>200-5007-00</b> | 0.002 kg |
|  <b>Protective guard for illuminated pushbutton round</b>       |            |           |                  |                    |          |
| for button Ø 18 mm with mounting cut-out Ø 16 mm                                                                                                   | Ø 18 mm    | Aluminium | natural anodized | <b>200-1007-00</b> | 0.002 kg |



**Pressure ring for illuminated pushbutton****Additional Information**

- Necessary for front bezel IP 65, Ø 24 mm and 24 x 24 mm

| Material                                                                          | Part No.                                        | Weight   |
|-----------------------------------------------------------------------------------|-------------------------------------------------|----------|
|  | <b>Pressure ring for illuminated pushbutton</b> |          |
|                                                                                   | 200-8009-W0                                     | 0.001 kg |

**Sealing ring for indicator and illuminated pushbutton****Additional Information**

- Necessary for front bezel IP 65, Ø 24 mm and 24 x 24 mm

| Material                                                                            | Part No.                                                     | Weight   |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|----------|
|  | <b>Sealing bulb for indicator and illuminated pushbutton</b> |          |
|                                                                                     | 200-7009-W0                                                  | 0.001 kg |

**Sealing bulb for indicator and illuminated pushbutton****Additional Information**

- Necessary for front bezel IP 65, Ø 24 mm and 24 x 24 mm

| Material                                                                            | Part No.                                                     | Weight   |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|----------|
|  | <b>Sealing ring for indicator and illuminated pushbutton</b> |          |
|                                                                                     | 200-9009-W0                                                  | 0.001 kg |

## Blind plug

| Front protection                                                                                      | Dimension  | Mounting cut-out | Material | Colour | Part No.         | Weight   |
|-------------------------------------------------------------------------------------------------------|------------|------------------|----------|--------|------------------|----------|
|  <b>Blind plug</b>   |            |                  |          |        |                  |          |
| IP 40                                                                                                 | 18 x 18 mm | Ø 16 mm          | Plastic  | black  | <b>01-948.0</b>  | 0.003 kg |
|  <b>Blind plug</b>   |            |                  |          |        |                  |          |
| IP 65                                                                                                 | 18 x 18 mm | Ø 16 mm          | Plastic  | black  | <b>51-948.0</b>  | 0.003 kg |
|  <b>Blind plug</b>   |            |                  |          |        |                  |          |
| IP 65                                                                                                 | 24 x 24 mm | Ø 16 mm          | Plastic  | black  | <b>61-9450.0</b> | 0.003 kg |
|  <b>Blind plug</b>   |            |                  |          |        |                  |          |
| IP 40                                                                                                 | 18 x 24 mm | Ø 16 mm          | Plastic  | black  | <b>01-947.0</b>  | 0.003 kg |
|  <b>Blind plug</b> |            |                  |          |        |                  |          |
| IP 65                                                                                                 | 18 x 24 mm | Ø 16 mm          | Plastic  | black  | <b>51-947.0</b>  | 0.003 kg |
|  <b>Blind plug</b> |            |                  |          |        |                  |          |
| IP 40                                                                                                 | Ø 18 mm    | Ø 16 mm          | Plastic  | black  | <b>01-949.0</b>  | 0.003 kg |
|  <b>Blind plug</b> |            |                  |          |        |                  |          |
| IP 65                                                                                                 | Ø 18 mm    | Ø 16 mm          | Plastic  | black  | <b>51-949.0</b>  | 0.003 kg |

**Spare key****Additional Information**

- Further lock numbers see «Technical data»
- At ordering indicate marked lock no

| Product attribute                                                                                         | Part No.           | Weight   |
|-----------------------------------------------------------------------------------------------------------|--------------------|----------|
|  <p><b>Spare key</b></p> |                    |          |
| for keylock switch, keylock number B2 300                                                                 | <b>240-2001-00</b> | 0.005 kg |
| Stop pushbutton, keylock number B2 390                                                                    | <b>240-3001-00</b> | 0.005 kg |

**Label for emergency-stop and stop switch****Additional Information**

- Other options on request

| Front protection                                                                                                                                   | Dimension | Marking         | Colour | Part No.           | Weight   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|--------|--------------------|----------|
| <div></div> <div>Label for emergency-stop and stop switch</div> |           |                 |        |                    |          |
| IP 40                                                                                                                                              | Ø 43 mm   | without         | yellow | <b>200-1300-01</b> | 0.002 kg |
| IP 65                                                                                                                                              | Ø 43 mm   | without         | yellow | <b>61-9970.0</b>   | 0.002 kg |
| <div></div> <div>Label for emergency-stop and stop switch</div> |           |                 |        |                    |          |
| IP 40                                                                                                                                              | Ø 43 mm   | NOT-AUS         | yellow | <b>200-1300-02</b> | 0.002 kg |
|                                                                                                                                                    |           | NOT HALT        | yellow | <b>200-1300-08</b> | 0.002 kg |
| IP 65                                                                                                                                              | Ø 43 mm   | NOT-AUS         | yellow | <b>61-9970.1</b>   | 0.002 kg |
|                                                                                                                                                    |           | NOT HALT        | yellow | <b>61-9970.6</b>   | 0.002 kg |
| <div></div> <div>Label for emergency-stop and stop switch</div> |           |                 |        |                    |          |
| IP 40                                                                                                                                              | Ø 43 mm   | EMERGENCY STOP  | yellow | <b>200-1300-03</b> | 0.002 kg |
| IP 65                                                                                                                                              | Ø 43 mm   | EMERGENCY STOP  | yellow | <b>61-9970.2</b>   | 0.002 kg |
| <div></div> <div>Label for emergency-stop and stop switch</div> |           |                 |        |                    |          |
| IP 65                                                                                                                                              | Ø 43 mm   | ARRET D'URGENCE | yellow | <b>61-9970.3</b>   | 0.002 kg |

## Rear side

### Snap-action switching element block

| Switching voltage                                                                                                                           | Switching current | Switching system              | Contacts          | Contact material | Terminal            | Part No.    | Component layout | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|-------------------|------------------|---------------------|-------------|------------------|----------|
| <div></div> <div>Snap-action switching element block</div> |                   |                               |                   |                  |                     |             |                  |          |
| 250 VAC                                                                                                                                     | 5 A               | Snap-action switching element | 1 NC + 1 NO       | Gold             | Solder 2.8 x 0.5 mm | 601F0000-00 |                  | 0.006 kg |
|                                                                                                                                             |                   |                               | 2 NC + 2 NO       | Gold             | Solder 2.8 x 0.5 mm | 602F0000-00 |                  | 0.006 kg |
|                                                                                                                                             |                   |                               | 1 NC + 1 NO + 1 D | Gold             | Solder 2.8 x 0.5 mm | 608F0000-00 |                  | 0.006 kg |
| <div></div> <div>Snap-action switching element block</div> |                   |                               |                   |                  |                     |             |                  |          |
| 250 VAC                                                                                                                                     | 5 A               | Snap-action switching element | 1 NC + 1 NO       | Gold             | PCB                 | 601F0000-0P | 1                | 0.006 kg |
|                                                                                                                                             |                   |                               | 2 NC + 2 NO       | Gold             | PCB                 | 602F0000-0P | 1                | 0.006 kg |
|                                                                                                                                             |                   |                               | 1 NC + 1 NO + 2 D | Gold             | PCB                 | 609F0000-0P | 1                | 0.006 kg |

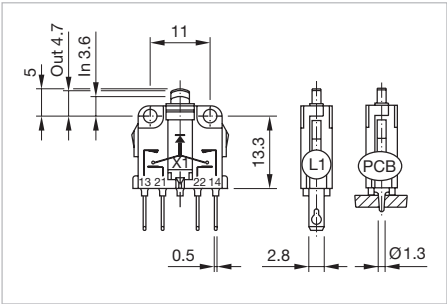
Contacts: NC = Normally closed, NO = Normally open, D = Diode element  
The component layouts you will find from page 107

### Lamp element block

| Terminal                                                                                                      | Diode 1N4007 | Part No.           | Component layout | Weight   |
|---------------------------------------------------------------------------------------------------------------|--------------|--------------------|------------------|----------|
|  <b>Lamp element block</b> |              |                    |                  |          |
| Solder 2.8 x 0.5 mm                                                                                           |              | <b>600-0000-00</b> |                  | 0.005 kg |
|                                                                                                               | 1            | <b>606F0000-00</b> |                  | 0.006 kg |
|                                                                                                               | 2            | <b>607F0000-00</b> |                  | 0.006 kg |
|  <b>Lamp element block</b> |              |                    |                  |          |
| PCB                                                                                                           |              | <b>600-0000-0P</b> | 1                | 0.005 kg |

The component layouts you will find from page 107

Snap-action switching element



Dimensions [mm]

| Colour                                                                                                                         | Switching voltage | Switching current | Switching system              | Contacts    | Contact material | Terminal            | Part No.           | Weight   |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------------------|-------------|------------------|---------------------|--------------------|----------|
|  <p><b>Snap-action switching element</b></p>  |                   |                   |                               |             |                  |                     |                    |          |
| black                                                                                                                          | 250 VAC           | 5 A               | Snap-action switching element | 1 NC + 1 NO | Gold             | Solder 2.8 x 0.5 mm | <b>201F0900-00</b> | 0.003 kg |
|  <p><b>Snap-action switching element</b></p> |                   |                   |                               |             |                  |                     |                    |          |
| black                                                                                                                          | 250 VAC           | 5 A               | Snap-action switching element | 1 NC + 1 NO | Gold             | PCB                 | <b>221F0900-0P</b> | 0.003 kg |

Contacts: NC = Normally closed, NO = Normally open

## Blind element

| Colour                                                                            | Part No.             | Weight               |
|-----------------------------------------------------------------------------------|----------------------|----------------------|
|  | <b>Blind element</b> |                      |
|                                                                                   | white                | 202F0900-00 0.002 kg |

## Lamp terminal

| Terminal                                                                           | Part No.             | Weight               |
|------------------------------------------------------------------------------------|----------------------|----------------------|
|   | <b>Lamp terminal</b> |                      |
|                                                                                    | Solder 2.8 x 0.5 mm  | 270-0000-00 0.001 kg |
|  | <b>Lamp terminal</b> |                      |
|                                                                                    | PCB                  | 270-0000-0P 0.001 kg |

## Intermediate section

| Product attribute                                                                   | Part No.                                                    | Weight               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------|
|  | <b>Intermediate section</b>                                 |                      |
|                                                                                     | for illuminated pushbutton 55 mm, T1 ¼ MG, incl. fixing nut | 260-9000-00 0.005 kg |

**Holder for 2 switching elements**

| Product attribute                                                                                                                                                           | Material | Part No.           | Weight   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|----------|
|  <b>Holder for 2 switching elements</b><br>for push-pull illuminated switch                | Plastic  | <b>270-2000-00</b> | 0.001 kg |
|                                                                                                                                                                             |          |                    |          |
|  <b>Holder for 2 switching elements</b><br>for pushbutton, keylock switch, selector switch | Plastic  | <b>270-3000-00</b> | 0.001 kg |
|                                                                                                                                                                             |          |                    |          |

**Holder for 3 switching elements**

| Product attribute                                                                                                                                       | Material        | Part No.           | Weight   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|----------|
|  <b>Holder for 3 switching elements</b><br>for pushbutton illuminated | Stainless steel | <b>270-1000-00</b> | 0.001 kg |
|                                                                                                                                                         |                 |                    |          |

**Spring with pin****Additional Information**

- For maintained version at the intermediate section

| Product attribute                                                                                                                        | Part No.           | Weight   |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
|  <b>Spring with pin</b><br>for pushbutton illuminated | <b>260-0010-00</b> | 0.001 kg |
|                                                                                                                                          |                    |          |

## PCB plug-in base

| Product attribute                                                                                         | Dimension         | Pins  | Terminal | Part No.           | Weight   |
|-----------------------------------------------------------------------------------------------------------|-------------------|-------|----------|--------------------|----------|
|  <b>PCB plug-in base</b> |                   |       |          |                    |          |
| 3 NC + 3 NO with lamp terminal                                                                            | 18 x 18 x 11.5 mm | axial | PCB      | <b>280-3100-00</b> | 0.005 kg |

Contacts: NC = Normally closed, NO = Normally open

## Flat receptacle

| Product attribute                                                                                                           | wire cross-section of terminal | Part No.           | Weight   |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|----------|
|  <b>Flat receptacle</b>                    |                                |                    |          |
| 2.8 x 0.5 mm with locating tongue for Multi pug-in housing                                                                  | 0.1 ... 0.25 mm <sup>2</sup>   | <b>280-0001-00</b> | 0.001 kg |
|  <b>Flat receptacle</b>                  |                                |                    |          |
| 2.8 x 0.5 mm with locating tongue for Multi pug-in housing                                                                  | 0.5 ... 1.0 mm <sup>2</sup>    | <b>51-943.1</b>    | 0.001 kg |
|  <b>Flat receptacle</b>                  |                                |                    |          |
| 2.8 x 0.5 mm without locating tongue, exclusive of Insulation sleeve Part No. 280-0010-00 use                               | 0.2 ... 0.75 mm <sup>2</sup>   | <b>280-0003-00</b> | 0.001 kg |
|  <b>Flat receptacle with two outputs</b> |                                |                    |          |
| 2.8 x 0.5 mm                                                                                                                |                                | <b>280-0004-00</b> | 0.001 kg |



Insulation sleeve

- Additional Information**
- For flat receptacle without locating tongue  
Part No. 280-0003-00

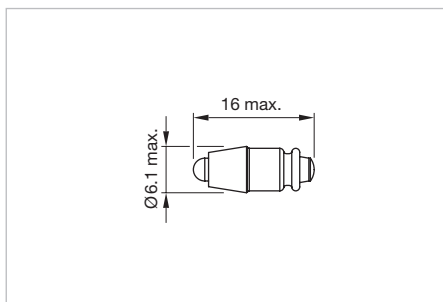
| Part No.                                                                                               |  | Weight   |
|--------------------------------------------------------------------------------------------------------|--|----------|
| <br>Insulation sleeve |  |          |
| 280-0010-00                                                                                            |  | 0.001 kg |

## Illumination

### LED T1 3/4 MG

#### Additional Information

- A suitable lamp remover Part No. 61-9740.0
- 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
- If the 24VDC Bi-colour lamp is driven with normal polarity (plus on middle contact of the lamp) the first mentioned colour will light up, with inverted polarity the second colour will light up
- 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



Dimensions [mm]

| LED colour                                                                                             | Operating voltage | Operation current | Lumi. intensity | Dom. wavelength | Part No.            | Weight   |
|--------------------------------------------------------------------------------------------------------|-------------------|-------------------|-----------------|-----------------|---------------------|----------|
|  <h4>Single-LED</h4> |                   |                   |                 |                 |                     |          |
| Single-LED 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 |
| Single-LED 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 |
| Single-LED 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 |
| Single-LED 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 |
| Single-LED 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 |

| LED colour                                                                        | Operating voltage | Operation current | Lumi. intensity | Dom. wavelength | Part No.            | Weight   |
|-----------------------------------------------------------------------------------|-------------------|-------------------|-----------------|-----------------|---------------------|----------|
|  |                   |                   |                 |                 |                     |          |
| <b>Bi-colour LED</b>                                                              |                   |                   |                 |                 |                     |          |
| Bi-colour LED red/green                                                           | 24 VDC +10 %      | 15/14 mA ±15 %    | 600/630 mcd     | 625/525 nm      | <b>10-A312.314A</b> | 0.002 kg |

**Filament lamp**

| Operating voltage                                                                 | Operation current | Part No.            | Weight   |
|-----------------------------------------------------------------------------------|-------------------|---------------------|----------|
|  |                   |                     |          |
| <b>Filament lamp</b>                                                              |                   |                     |          |
| 6.3 VAC/DC                                                                        | 200 mA±10 %       | <b>10-1307.1369</b> | 0.001 kg |
| 14 VAC/DC                                                                         | 80 mA±10 %        | <b>10-1310.1319</b> | 0.001 kg |
| 28 VAC/DC                                                                         | 40 mA±10 %        | <b>10-1313.1249</b> | 0.001 kg |
| 36 VAC/DC                                                                         | 30 mA±10 %        | <b>10-1316.1209</b> | 0.001 kg |
| 48 VAC/DC                                                                         | 25 mA±10 %        | <b>10-1319.1199</b> | 0.001 kg |

**Diode element**

| Diode 1N4007                                                                        | Terminal            | Part No.           | Weight   |
|-------------------------------------------------------------------------------------|---------------------|--------------------|----------|
|  |                     |                    |          |
| <b>Diode element</b>                                                                |                     |                    |          |
| 2                                                                                   | Solder 2.8 x 0.5 mm | <b>213F0900-00</b> | 0.003 kg |

## Series resistor

### Additional Information

- For lamp voltage reduction
- For filament lamp 48 V, 1.2 W
- Keep to the country specific safety instructions

| Operating voltage                                                                                       | Resistance | Part No.           | Weight   |
|---------------------------------------------------------------------------------------------------------|------------|--------------------|----------|
|  <b>Series resistor</b> |            |                    |          |
| 110 V                                                                                                   | 2.7 kOhm   | <b>300-0010-00</b> | 0.002 kg |
| 125 V                                                                                                   | 3.3 kOhm   | <b>300-0020-00</b> | 0.002 kg |
| 240 V                                                                                                   | 10 kOhm    | <b>300-0050-00</b> | 0.002 kg |

## Terminal plate empty

### Additional Information

- For fitting with series resistors

| Product attribute                                                                                              | Dimension          | Part No.        | Weight   |
|----------------------------------------------------------------------------------------------------------------|--------------------|-----------------|----------|
|  <b>Terminal plate empty</b> |                    |                 |          |
| 5 spaces                                                                                                       | 62.5 x 60 x 15 mm  | <b>02-912.1</b> | 0.025 kg |
| 10 spaces                                                                                                      | 125 x 60 x 15 mm   | <b>02-912.2</b> | 0.045 kg |
| 15 spaces                                                                                                      | 187.5 x 60 x 15 mm | <b>02-912.3</b> | 0.09 kg  |
| 20 spaces                                                                                                      | 250 x 60 x 15 mm   | <b>02-912.4</b> | 0.095 kg |

**Mounting****Fixing nut**

| Product attribute                                                                                   | Material | Colour | Part No.           | Weight   |
|-----------------------------------------------------------------------------------------------------|----------|--------|--------------------|----------|
|  <b>Fixing nut</b> |          |        |                    |          |
| Panel thickness 1 to 3 mm, for devices with 30 - 70 mm behind panel depth                           | Plastic  | grey   | <b>260-0001-00</b> | 0.001 kg |
| Panel thickness 3 to 5 mm, for devices 30 - 70 mm behind panel depth                                | Plastic  | grey   | <b>260-0002-00</b> | 0.001 kg |
| Panel thickness 5 to 7 mm, for devices with 30 - 70 mm behind panel depth                           | Plastic  | grey   | <b>260-0005-00</b> | 0.001 kg |
| Panel thickness 1 to 3 mm, for devices with 35 mm behind panel depth                                | Plastic  | black  | <b>260-0003-00</b> | 0.001 kg |

**Anti-rotation location strip****Additional Information**

- All devices without Emergency-stop pushbutton foolproof

| Product attribute                                                                                                       | Part No.           | Weight   |
|-------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
|  <b>Anti-rotation location strip</b> |                    |          |
| Anti-twist device, in-line arrays or single switches, graduation 18 mm                                                  | <b>260-0020-00</b> | 0.001 kg |
| Anti-twist device, in-line arrays or single switches, graduation 24 mm                                                  | <b>260-0021-00</b> | 0.001 kg |

## Lamp remover

### Additional Information

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

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

## Mounting tool

### Additional Information

- For tightening or loosening of the fixing nut (at dismantled Element block)

| Part No.                                                                            | Weight               |
|-------------------------------------------------------------------------------------|----------------------|
|  |                      |
|                                                                                     | <b>Mounting tool</b> |
| 300-0003-00                                                                         | 0.007 kg             |

## Dismantling tool for emergency-stop switch, foolproof

| Part No.                                                                            | Weight                                                       |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|
|  |                                                              |
|                                                                                     | <b>Dismantling tool for emergency-stop switch, foolproof</b> |
| 61-9711.0                                                                           | 0.004 kg                                                     |

**Contact element pliers****Additional Information**

- For dismantling the switching elements off the holder for 3 switching elements

| Part No.                                                                          | Weight                        |
|-----------------------------------------------------------------------------------|-------------------------------|
|  |                               |
|                                                                                   | <b>Contact element pliers</b> |
| 300-0005-00                                                                       | 0.013 kg                      |

**Jaw spanner****Additional Information**

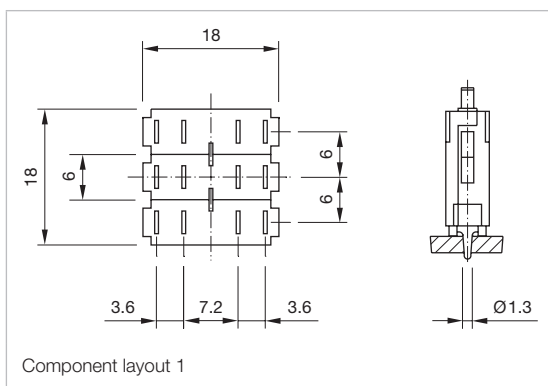
- For tightening or loosening fixing nut and dismantling of the element blocks (mounting depth 35 - 70 mm)

| Part No.                                                                            | Weight             |
|-------------------------------------------------------------------------------------|--------------------|
|  |                    |
|                                                                                     | <b>Jaw spanner</b> |
| 300-0004-00                                                                         | 0.003 kg           |

**Flat receptacle remover****Additional Information**

- For removing the flat receptacle from the multi-plug housing (Part No. 280-0000-00)

| Part No.                                                                            | Weight                         |
|-------------------------------------------------------------------------------------|--------------------------------|
|  |                                |
|                                                                                     | <b>Flat receptacle remover</b> |
| 51-943.9                                                                            | 0.001 kg                       |





## Device

### General

Swisstac switches are modularly designed. They are divided in three groups:

1. Front  
Interface Human-Switch with state detector.
2. Intermediate section  
Set and reset device, lamp holder, latching funktion.
3. Switching element block  
Up to 3 switching elements can be integrated in a switching element block.

Each switch is tested fully mounted. Electrical output and service life are determined by the switching element. Front and intermediate section are designed for maximum service life of the switching element. They determine in what way the switches are protected against external influences. The type approvals relate to the complete switch.

### Environmental conditions

#### Shock resistance

(single impacts, semi-sinusoidal)  
500 m/s<sup>2</sup>, pulse width 11 ms, as per EN IEC 60068-2-27  
max. 150 m/s<sup>2</sup>, pulse width 11 ms, as per EN IEC 60068-2-29

#### Vibration resistance

(sinusoidal)  
max. 100 m/s<sup>2</sup> at 10 Hz ... 500 Hz, as per EN IEC 60068-2-6

### Approvals

#### Approbations

CSA  
ENEC (EN 61058)  
UL  
VDE

#### Declaration of conformity

CE

## Front

### General

The front notifies the switching status, serves for activation of the switch and determines its type of protection. With the exception of the front 18 mm dia. of the illuminated pushbuttons 55, all front bezel elements have activation protection.

### Material

#### Lens

Polycarbonate (PC)

#### Front bezel

Polybutylene terephthalate (PBT)

#### Actuator 35 mm

Polybutylene terephthalate (PBT)

#### Lock housing

Polybutylene terephthalate (PBT)

#### Lock cylinder

Polybutylenterephthalat reinforced with carbon fibre (PBT)  
sealing bulb IP 65 (Silicone)

### Environmental conditions

#### Protection degree

IP 65 or IP 40, as per EN IEC 60529

## Intermediate section

### General

The intermediate section integrates characteristics as setting, reset function and click-stop device. Besides all for a switch necessary parts, like front parts, switching block and lamps, are fastened at the intermediate section.

### Material

#### Housing

Polycarbonate (PC)

#### Lamp terminal

Nickel silver

### Mechanical characteristics

#### Mechanical lifetime

|                              |                                 |
|------------------------------|---------------------------------|
| Illuminated pushbutton       | > 2 million cycles of operation |
| Keylock- and Selector switch | > 50 000 cycles of operation    |
| Emergency-stop switch        | > 8000 cycles of operation      |
| Illuminated push-pull switch | > 250 000 cycles of operation   |

### Electrical characteristics

#### Electric strength

3750 VAC, 50 Hz, 1 min., as per EN IEC 61058-1

#### Isolation resistance

> 10<sup>12</sup> Ω as per DIN IEC 60512-2-10

## Environmental conditions

### Storage temperature

-40 °C ... +85 °C, as per EN IEC 60068

### Operating temperature

-25 °C ... +55 °C, as per EN IEC 60068-2

## Switching element block

### General

Up to five independent switching elements can be integrated in the switching element block as a switching unit. There are four different types of elements available.

1. Snap-action switching element
2. Slow-make Stop switching element
3. Diode element
4. Blind element

### Material

#### Holder for 2 switching elements

Polyamide (PA 6)

#### Holder for 3 switching elements

Stainless steel

### Lamp terminal

CuBe, 2 µm Optalloy

## Mechanical characteristics

### Terminals

Soldering terminal (also pluggable 2.8 x 0.5 mm) or PCB terminal, Brass gold plated  
Wire cross-section 1.0 mm<sup>2</sup> max.

## Electrical characteristics

### Electric strength

2500 VAC, 50 Hz, 1 min. (functional isolation)

### Isolation resistance

> 10<sup>12</sup> Ω

## Snap-action switching element

### Switching system

Is equipped with double-break jump contacts. Owing to the large cleaning path, outstanding self-cleaning is possible. The multilayer contacts are designed for universal use. They are gilded with a 2 µm gold coating. Each snap-action switching element comprises a NC (normally closed contact) and a NO (normally open contact).

### Material

#### Housing

Franyl (PA6)

#### Contacts

AgNi, 2 µm gold plated

#### Contact carrier

Brass or CuBe

### Rebound time

typically 0.5 µs

### Contact opening width

2 x 0.65 mm

### Contact cleaning path

2 x 0.6 mm

### Mechanical lifetime

2 million cycles of operation

## Electrical characteristics

### Contact resistance

New state with gold plated contact ≤ 50 mΩ, statically

### Electrical life

> 10 000 cycles of operation

EN IEC 60947-5-1, AC-12

|         |      |      |      |       |       |
|---------|------|------|------|-------|-------|
| Voltage | 24 V | 48 V | 75 V | 110 V | 250 V |
| Current | 5 A  | 5 A  | 5 A  | 2 A   | 0.5 A |

EN IEC 61058-1 (inductive)

|         |       |
|---------|-------|
| Voltage | 250 V |
| Current | 1.5 A |

## Mechanical characteristics

### Terminals

Soldering terminal (also pluggable 2.8 x 0.5 mm) or PCB terminal, Brass gold plated  
Wire cross-section 1.0 mm<sup>2</sup> max.

### Actuating force

For each snap-action switching element approx. 2 N

### Conventional free air thermal current $I_{th}$

5 A from 1 to 3-poles switching element block

### Switch rating

as per EN IEC 61058-1

250 V, 5 A (non-inductive) up to 3 switching elements

250 V, 1.5 A (inductive) up to 3 switching elements

5 VAC/DC, 1 mA min.

### Environmental conditions

#### Storage temperature

-40 °C ... +85 °C, as per EN IEC 60068

#### Operating temperature

-25 °C ... +55 °C, as per EN IEC 60068-2

## Slow-make switching element Stop switch

### Switching system

Is equipped with rigid contact link. The slow-make element opens positively and simply consists of a double-break NC. The multi-layer contacts are designed for universal use and are gilded with a 2 µm gold coating. The Stop slow-make element is designed according to EN IEC 60947-5-1.

### Material

#### Housing

Frianyl (PA6)

#### Contacts

AgNi, 2 µm gold plated

#### Contact carrier

Brass or CuBe

### Electrical characteristics

#### Rated Operational Voltage $U_o$

250 VAC, as per EN IEC 60947-1

#### Rated Insulation Voltage $U_i$

250 V, as per EN IEC 60947-1

#### Electrical life

8000 cycles of operation at 250 VAC, 1 A

#### Conventional free air thermal current $I_{th}$

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

#### Switch rating

Switch rating AC with silver contact (gold plated),  
250 VAC, 1 A, service category AC-15, as per EN IEC 60947-5-1

#### Short-circuit protection

Series-connected blow-out fuse 5 A gL

### Mechanical characteristics

#### Terminals

Soldering terminal (also pluggable 2.8 x 0.5 mm) or PCB terminal,  
Brass gold plated

Wire cross-section 1.0 mm² max.

#### Contact opening width

> 2 x 1.5 mm

#### Mechanical lifetime

8000 cycles of operation

### Environmental conditions

#### Storage temperature

-40 °C ... +85 °C, as per EN IEC 60068

#### Operating temperature

-25 °C ... +55 °C, as per EN IEC 60068-2

## Diode element

### General

No switching function. Diodes are soldered into the switching element housing between the contact connections.

### Material

#### Housing

Frianyl (PA6)

### Mechanical characteristics

#### Terminals

Soldering terminal (also pluggable 2.8 x 0.5 mm),  
Brass gold plated

Wire cross-section 1.0 mm² max.

### Electrical characteristics

#### Diode

1N4007, rated current = 1.0 A, VRRM = 1000 V

## Blind element

### General

Insert in empty places in the switching element block. Nonconducting and without electrical function.

### Material

#### Housing

Polybutylene terephthalate (PBT)

## Buzzer

### General

Device with reverse-connect protection.

### Electrical characteristics

#### Operating voltage

6, 12 and 24 V AC/DC  $\pm 10\%$

#### Power consumption

approx. 13 mA

#### Acoustics

approx. 84 dB at 0.1 m

#### Frequency (tone)

approx. 2.3 kHz

### Mechanical characteristics

#### Terminals

Soldering terminal (also pluggable 2.8 x 0.5 mm) or PCB terminal, Brass gold plated  
Wire cross-section 1.0 mm<sup>2</sup> max.

## Emergency-stop switch foolproof

### Switching system

Self cleaning, double-break slow-make element with four-path contacts (contact opening width 2 x 1.5 mm). The slow-make elements are constructed as per EN IEC 60947-5-1.

### Tightening torque

for fixing nut max. 50 Ncm

### Unlock torque

15 Ncm

### Actuating travel

10 mm

### Rebound time

$\leq 2$  ms

### Mechanical lifetime

50 000 cycles of operations

### Electrical characteristics

#### Rated Operational Voltage $U_e$

250 VAC, as per EN IEC 60947-1

#### Rated Insulation Voltage $U_i$

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

#### Contact resistance

New state  $\leq 50$  m $\Omega$ , as per DIN IEC 60512-2-5

#### Electrical life

6050 cycles of operation

#### Conventional free air thermal current $I_{th}$

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

### Material

#### Mushroom-head cap

Polyamide (PA6)

#### Actuator housing

Polyamide (PA66)

#### Switching element

Polyamide (PA + PA66)

#### Material of contact

Silver (Ag)

### Mechanical characteristics

#### Terminals

Soldering terminal  
max. wire-cross section 2 x 1.0 mm<sup>2</sup>  
max. wire-cross section of stranded cable 1 x 0.75 mm<sup>2</sup>  
also pluggable 2.8 x 0.5 mm

#### Actuating force

max. 65 N (measured on mushroom-head cap)

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

#### Switch rating

Switch rating AC (inductive) with silver contact, service category AC-13, as per EN IEC 60947-5-1

|         |        |        |         |         |
|---------|--------|--------|---------|---------|
| Voltage | 24 VAC | 60 VAC | 120 VAC | 250 VAC |
| Current | 6 A    | 6 A    | 5 A     | 3 A     |

Switch rating AC (inductive) with silver contact, service category AC-14, as per EN IEC 60947-5-1

|         |        |        |         |         |
|---------|--------|--------|---------|---------|
| Current | 24 VAC | 60 VAC | 120 VAC | 250 VAC |
| Voltage | 5 A    | 4 A    | 3 A     | 2 A     |

Switch rating (non-inductive) with silver contact

|         |        |        |         |         |
|---------|--------|--------|---------|---------|
| Voltage | 24 VDC | 60 VDC | 110 VDC | 240 VDC |
| Current | 6 A    | 2 A    | 0.7 A   | 0.5 A   |

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

|         |        |        |         |         |
|---------|--------|--------|---------|---------|
| Voltage | 24 VDC | 60 VDC | 110 VDC | 240 VDC |
| Current | 2 A    | 1 A    | 0.4 A   | 0.2 A   |

#### Recommended minimum operational data

Silver contact (Soldering terminal) 20 VAC/DC, 100 mA

#### Electric strength

4000 VAC, 50 Hz, 1 min., as per DIN IEC 60512-2 between all terminals and earth

#### Short-circuit protection

Series-connected blow-out fuse 10 A gL

#### Overvoltage category

III, as per EN IEC 60947-5-1

#### Degree of pollution

3, as per EN IEC 60947-1

### Environmental conditions

#### Storage temperature

-40 °C ... +85 °C, as per EN IEC 60068

#### Operating temperature

-25 °C ... +55 °C, as per EN IEC 60068-2

#### Shock resistance

(single impacts, semi-sinusoidal)

500 m/s<sup>2</sup> puls width 11 ms, as per EN IEC 60068-2-27

#### Vibration resistance

(sinusoidal)

max. 100 m/s<sup>2</sup> at 10 Hz ... 2000 Hz, amplitude 0.75 mm, as per EN IEC 60068-2-6

#### Protection degree

as per EN IEC 60529

Frontside IP 65, backside IP 40

### Approvals

#### Approbations

CSA

UL

VDE

#### Declaration of conformity

CE

## Keylock switch

Standard lock number is B2 300 (Part No. 240-2001-00).

Further locks are available.

By order please use the ordersheet on the website

[www.eao.com/downloads](http://www.eao.com/downloads)

## Stop switch with key to release

Standard lock number is B2 390 (Part No. 240-3001-00).

Further locks are available.

By order please use the ordersheet on the website

[www.eao.com/downloads](http://www.eao.com/downloads)

## Emergency-stop switch, foolproof with key to release

Standard lock number is KABA 1001 (Part No. 240-4001-00),  
other lock numbers on request.

Spare keys may be ordered under Part No. 240-4001-00 1001.

*EAO reserves the right to alter specifications without further notice.*

## General notes

### Engraving

The lens top or lens holder can be engraved in the most commonly used world languages, in DIN 1451-3 close spacing, other typefaces are available. Colour lettering White for lens tops red, blue, green and black. Black for lens holders translucent and transparent.

**Important: With engraving, the position of the lens must agree with the position of the pushbutton or indicator. However, the lens can be mounted turned through 180°.**

### Hot stamping

For lettering any sizeable quantity we recommend pad printing on the lens holder.

**Important: With pad printing, the position of the lens must agree with the position of the pushbutton or indicator. However, the lens can be mounted turned through 180°.**

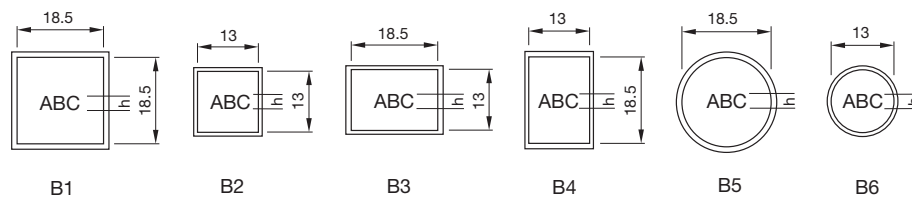
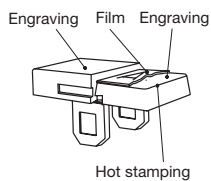
### Film inserts

Instead of engraving, a transparent foil can be laid in the lens tops, except with the colours grey and black. Film thickness is 0.1 mm max.

**Important: When a foil is used, the position of the lens must agree with the position of the pushbutton or indicator. However, the lens can be mounted turned through 180°. With round lenses the film can rotate.**

All dimensions in mm

| Front size                  | Film insert max. size | Height of letters h | Number of lines | Number of capital letters per line (target value) | Image |
|-----------------------------|-----------------------|---------------------|-----------------|---------------------------------------------------|-------|
| 18 x 18 (15.3 x 15.3)       | 12.7 x 12.7           | 2.5                 | 3               | 5                                                 | B2    |
|                             |                       | 3.0                 | 3               | 5                                                 | B2    |
|                             |                       | 4.0                 | 2               | 3                                                 | B2    |
|                             |                       | 5.0                 | 1               | 3                                                 | B2    |
| 18 x 24 horizontal position | 12.7 x 18.9           | 2.5                 | 3               | 8                                                 | B3    |
|                             |                       | 3.0                 | 3               | 8                                                 | B3    |
|                             |                       | 4.0                 | 2               | 5                                                 | B3    |
|                             |                       | 5.0                 | 1               | 5                                                 | B3    |
| 18 x 24 vertical position   | 12.7 x 18.9           | 2.5                 | 5               | 5                                                 | B4    |
|                             |                       | 3.0                 | 4               | 5                                                 | B4    |
|                             |                       | 4.0                 | 3               | 3                                                 | B4    |
|                             |                       | 5.0                 | 2               | 3                                                 | B4    |
| 24 x 24                     | 18.3 x 18.3           | 2.5                 | 5               | 8                                                 | B1    |
|                             |                       | 3.0                 | 4               | 8                                                 | B1    |
|                             |                       | 4.0                 | 3               | 6                                                 | B1    |
|                             |                       | 5.0                 | 2               | 5                                                 | B1    |
| Ø 18                        | Ø 12.7                | 2.5                 | 2               | 5                                                 | B6    |
|                             |                       | 3.0                 | 2               | 5                                                 | B6    |
|                             |                       | 4.0                 | 1               | 3                                                 | B6    |
|                             |                       | 5.0                 | 1               | 2                                                 | B6    |
| Ø 24                        | Ø 18.3                | 2.5                 | 4               | 7                                                 | B5    |
|                             |                       | 3.0                 | 3               | 7                                                 | B5    |
|                             |                       | 4.0                 | 3               | 4                                                 | B5    |
|                             |                       | 5.0                 | 2               | 3                                                 | B5    |



# 55 Application guidelines

## Suppressor circuits

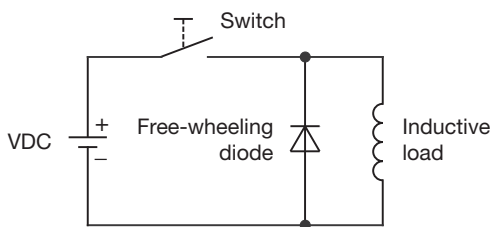
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

Fig. 1 shows an inductive load with a free-wheeling diode connected in parallel. This free-wheeling diode provides a path for the inductor current to flow when the current is interrupted by the switch. Without this free-wheeling diode, the voltage across the coil will be limited only by dielectric breakdown voltages of the circuit or parasitic elements of the coil. This voltage can be kilovolts in amplitude even when nominal circuit voltages are low (e.g. 12VDC) see Fig. 2.

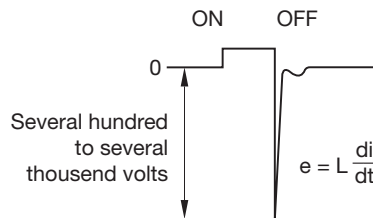
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage ( $V_R$ ) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current flowing through the load.

**To get an efficient protection, the free-wheeling diode must be connected as close as possible to the inductive load!**

Switching with inductive load  
Fig. 1



Counter EMF  
over load without free-wheeling diode  
Fig. 2





**General notes****Switch interlock systems do away with complicated protective and relay interlocks.**

SWISSTAC switches with mounting depths of 55 mm can be combined into interlocking systems of up to 4 switches. The switches are mechanically interlocked. There are two types to choose from:

- 1. Switch interlock system with pushbutton**
- 2. Switch interlock system with keylock switch**

The distance separating switches in an interlock system can be increased in steps of 6 mm to 30 mm from a minimum of 18 mm

(between switch centre-lines). Irregular spacings and/or blanks in a system are also possible. No special cutouts in the fascia panel are required, as the hole patterns match the individual switches.

All switch interlock systems are supplied ready for mounting. Splash-proof versions are obtainable with bezels of Ø 24 mm or 24 x 24 mm. The interlock system withstands a pressure of at least 50 N.

**Variants of switch interlock system****For each type of switch interlock system there is a choice of different variants:****Variant 1**

Momentary action possible only with one pushbutton at a time, as the buttons are interactively blocked mechanically.

**Variant 2**

Maintained action of one pushbutton at a time. This blocks the other buttons mechanically and is only released by pressing the actuated pushbutton again.

**Variant 3**

Maintained action of one pushbutton at a time. If an other button is pressed, the first resets. One button is normally always "On".

**Variant 4**

Maintained action of one pushbutton at a time. If an other button is pressed, the first resets. The release button cancels the "On" condition.

**Variant 5**

Maintained action of one or more pushbuttons pressed simultaneously. If one or more buttons are operated simultaneously, the button or group of buttons pressed before are reset. Switching "Off" is done only with the release button.

**Variant 6**

Maintained action of one pushbutton at a time. Another button cannot be operated until the first has been reset with the release button. All buttons are then at "Zero".

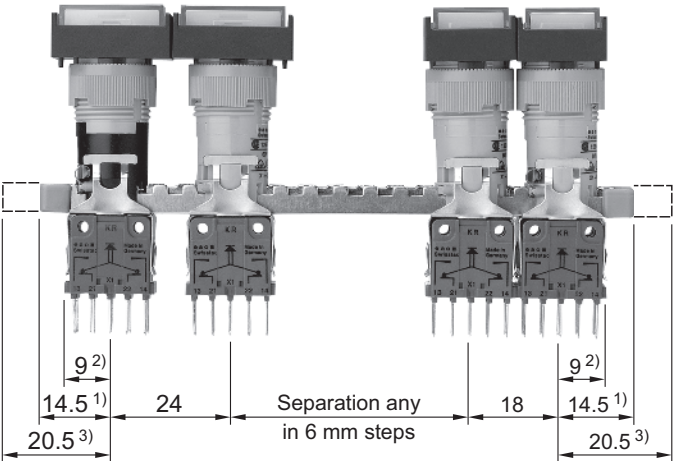
**Variant 7**

Maintained action of any one switch, which can also be operated one after the other. Actuated buttons can only be reset with the release button.

| Action                               | Variant |   |   |   |   |   |   |
|--------------------------------------|---------|---|---|---|---|---|---|
|                                      | 1       | 2 | 3 | 4 | 5 | 6 | 7 |
| latching                             |         | ● | ● | ● | ● | ● | ● |
| mutual mechanical release            |         |   | ● | ● | ● |   |   |
| individual release by pressing again |         | ● |   |   |   |   |   |
| all released with release button     |         |   |   | ● | ● | ● | ● |
| mutual mechanical blocking           | ●       | ● | ● | ● |   | ● |   |

Switch interlock system with pushbutton

All dimensions in mm

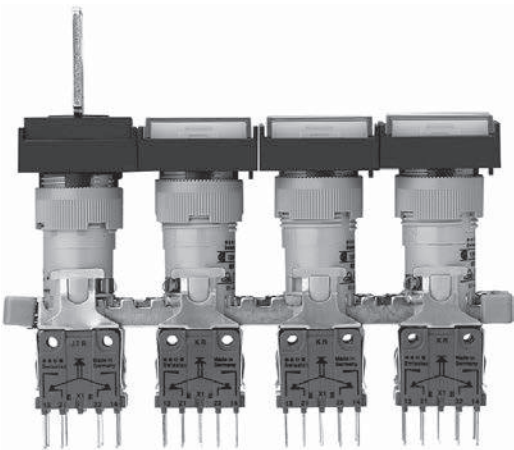


| Centre line (CL) spacing |                     |                                   |
|--------------------------|---------------------|-----------------------------------|
| 1                        | for variants 1, 3–7 | 14.5 mm                           |
| 2                        | for variants 1, 3–7 | reduction to 9.0 mm at extra cost |
| 3                        | for variant 2       | at least 20.5 mm                  |

Standard switch interlock system with keylock switch

Including keylock switches in a switch interlock system with mechanical blocking and release functions allows close supervision of the switches status, and restricts operation to authorized personnel.

For dimensions, see Standard switch interlock system.  
All dimensions in mm



There is a choice of three types of switch interlock systems with keylock switch. They differ according to their function:

|   |                                                                       |                                                                                                                                                                                                                                                          |
|---|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>Controls switching "On"</b><br>Possible with variants 3, 4, 6      | Zero position: Unrestricted operation.<br>Maintained action position: Resets actuated switches to zero position and the same time blocks all switches.                                                                                                   |
| 2 | <b>Controls switching "Off"</b><br>Possible for variants 6, 7         | Zero position: Switching "On" is possible. Momentary action position: Turning the keylock switch to the momentary action position resets the actuated switches to the zero position (keylock switch with momentary action mode replaces release button). |
| 3 | <b>Controls switching "On" and "Off"</b><br>Possible for variants 1–7 | Zero position: Unrestricted operation.<br>Maintained action position: Locks all switches at their present setting.                                                                                                                                       |

Information for order

The ordersheet you will find on the website  
[www.eao.com/downloads](http://www.eao.com/downloads)

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| 02-912.3     | 84   | 200-2003-00 | 66   | 200-8001-00 | 65   | 562-8101-W0 | 23   | 712F.401-W0 | 45   | 761F.401-W0 | 37   |
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| 10-2J06.3144 | 82   | 200-3007-00 | 72   | 200-8009-W0 | 73   | 600-1140-00 | 61   | 712F.401-WP | 49   | 761F.700-00 | 52   |
| 10-2J06.3145 | 82   | 200-3110-00 | 63   | 200-8400-V0 | 70   | 600-1150-00 | 61   | 722F.401-00 | 40   | 761F.700-00 | 54   |
| 10-2J06.3146 | 82   | 200-3120-00 | 63   | 200-9000-00 | 69   | 600-1160-00 | 61   | 722F.401-00 | 42   | 761F.700-00 | 56   |
| 10-2J06.3149 | 82   | 200-3140-00 | 63   | 200-9000-W0 | 69   | 600-1170-00 | 61   | 722F.401-00 | 44   | 761F.700-00 | 58   |
| 10-2J09.1062 | 82   | 200-3150-00 | 63   | 200-9001-00 | 65   | 600-1180-00 | 61   | 722F.401-00 | 46   | 761F.700-0P | 50   |
| 10-2J09.1064 | 82   | 200-3160-00 | 63   | 200-9003-00 | 66   | 600-1190-00 | 61   | 722F.401-00 | 48   | 761F.700-0P | 52   |
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| 10-2J09.1069 | 82   | 200-3210-00 | 63   | 200-9009-W0 | 73   | 600-3110-00 | 61   | 722F.401-0P | 44   | 761F.700-0P | 58   |
| 10-2J12.1062 | 82   | 200-3220-00 | 63   | 200-9110-00 | 62   | 600-3120-00 | 61   | 722F.401-0P | 46   | 761F.700-W0 | 50   |
| 10-2J12.1064 | 82   | 200-3240-00 | 63   | 200-9120-00 | 62   | 600-3140-00 | 61   | 722F.401-0P | 48   | 761F.700-W0 | 52   |
| 10-2J12.1065 | 82   | 200-3250-00 | 63   | 200-9120-W0 | 63   | 600-3150-00 | 61   | 722F.401-W0 | 41   | 761F.700-W0 | 54   |
| 10-2J12.1066 | 82   | 200-3260-00 | 63   | 200-9140-00 | 62   | 600-3160-00 | 61   | 722F.401-W0 | 43   | 761F.700-W0 | 56   |
| 10-2J12.1069 | 82   | 200-3270-00 | 63   | 200-9140-W0 | 63   | 600-3170-00 | 61   | 722F.401-W0 | 45   | 761F.700-W0 | 58   |
| 10-2J13.1062 | 82   | 200-4000-00 | 69   | 200-9150-00 | 62   | 600-3180-00 | 61   | 722F.401-W0 | 47   | 761F.700-WP | 50   |
| 10-2J13.1064 | 82   | 200-4001-00 | 65   | 200-9150-W0 | 63   | 600-3190-00 | 61   | 722F.401-W0 | 49   | 761F.700-WP | 52   |
| 10-2J13.1065 | 82   | 200-4001-01 | 65   | 200-9160-00 | 62   | 600-4000-00 | 12   | 732F.401-00 | 40   | 761F.700-WP | 54   |
| 10-2J13.1066 | 82   | 200-4002-00 | 66   | 200-9160-W0 | 63   | 600-4000-W0 | 12   | 732F.401-00 | 42   | 761F.700-WP | 56   |
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| 10-2J19.1042 | 82   | 200-4003-00 | 66   | 200-9170-W0 | 63   | 600-5120-00 | 61   | 732F.401-00 | 46   | 762F.401-00 | 25   |
| 10-2J19.1044 | 82   | 200-4004-00 | 65   | 200-9190-00 | 62   | 600-5140-00 | 61   | 732F.401-00 | 48   | 762F.401-00 | 28   |
| 10-2J19.1045 | 82   | 200-4004-00 | 66   | 200-9210-00 | 62   | 600-5150-00 | 61   | 732F.401-0P | 40   | 762F.401-00 | 31   |
| 10-2J19.1046 | 82   | 200-5000-00 | 69   | 200-9220-00 | 62   | 600-5160-00 | 61   | 732F.401-0P | 42   | 762F.401-00 | 34   |
| 10-2J19.1049 | 82   | 200-5001-00 | 65   | 200-9220-W0 | 63   | 600-5170-00 | 61   | 732F.401-0P | 44   | 762F.401-00 | 37   |
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| 200-.225-00  | 68   | 200-5003-00 | 66   | 200-9240-W0 | 63   | 600-6000-00 | 12   | 732F.401-0P | 48   | 762F.401-0P | 28   |
| 200-.245-00  | 68   | 200-5007-00 | 72   | 200-9260-00 | 62   | 600-6000-W0 | 12   | 732F.401-W0 | 41   | 762F.401-0P | 31   |
| 200-.255-00  | 68   | 200-5110-00 | 63   | 200-9260-W0 | 63   | 601F0000-00 | 76   | 732F.401-W0 | 43   | 762F.401-0P | 34   |
| 200-.265-00  | 68   | 200-5120-00 | 63   | 200-9270-00 | 62   | 601F0000-0P | 76   | 732F.401-W0 | 45   | 762F.401-0P | 37   |
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| 200-.604-00  | 67   | 200-5150-00 | 63   | 202F0900-00 | 78   | 602F0000-0P | 76   | 732F.401-W0 | 49   | 762F.401-W0 | 29   |
| 200-.704-00  | 67   | 200-5160-00 | 63   | 213F0900-00 | 83   | 606F0000-00 | 76   | 742F.401-00 | 40   | 762F.401-W0 | 32   |
| 200-.804-00  | 67   | 200-5170-00 | 63   | 221F0900-0P | 77   | 607F0000-00 | 76   | 742F.401-00 | 42   | 762F.401-W0 | 35   |
| 200-.904-00  | 67   | 200-5180-00 | 63   | 240-2001-00 | 75   | 608F0000-00 | 76   | 742F.401-00 | 44   | 762F.401-W0 | 38   |
| 200-0000-00  | 69   | 200-5190-00 | 63   | 240-3001-00 | 75   | 609F0000-0P | 76   | 742F.401-00 | 46   | 762F.700-00 | 50   |
| 200-0000-W0  | 69   | 200-5210-00 | 63   | 260-0001-00 | 85   | 61-9450.0   | 74   | 742F.401-00 | 48   | 762F.700-00 | 52   |
| 200-0001-00  | 65   | 200-5220-00 | 63   | 260-0002-00 | 85   | 61-9711.0   | 86   | 742F.401-W0 | 41   | 762F.700-00 | 54   |
| 200-0001-01  | 65   | 200-5240-00 | 63   | 260-0003-00 | 85   | 61-9740.0   | 86   | 742F.401-W0 | 43   | 762F.700-00 | 56   |
| 200-0002-00  | 66   | 200-5250-00 | 63   | 260-0005-00 | 85   | 61-9920.0   | 71   | 742F.401-W0 | 45   | 762F.700-00 | 58   |
| 200-0002-02  | 66   | 200-5260-00 | 63   | 260-0010-00 | 79   | 61-9930.0   | 70   | 742F.401-W0 | 47   | 762F.700-0P | 50   |
| 200-0004-00  | 65   | 200-5270-00 | 63   | 260-0020-00 | 85   | 61-9931.0   | 70   | 742F.401-W0 | 49   | 762F.700-0P | 52   |
| 200-0004-00  | 66   | 200-6000-00 | 69   | 260-0021-00 | 85   | 61-9970.0   | 75   | 742F.401-WP | 41   | 762F.700-0P | 54   |
| 200-1000-00  | 69   | 200-6001-00 | 65   | 260-9000-00 | 78   | 61-9970.1   | 75   | 742F.401-WP | 43   | 762F.700-0P | 56   |
| 200-1001-00  | 65   | 200-6001-01 | 65   | 270-0000-00 | 78   | 61-9970.2   | 75   | 742F.401-WP | 45   | 762F.700-0P | 58   |
| 200-1004-00  | 65   | 200-6002-00 | 66   | 270-0000-0P | 78   | 61-9970.3   | 75   | 742F.401-WP | 47   | 762F.700-W0 | 50   |
| 200-1004-00  | 66   | 200-6002-02 | 66   | 270-1000-00 | 79   | 61-9970.6   | 75   | 742F.401-WP | 49   | 762F.700-W0 | 52   |
| 200-1007-00  | 72   | 200-6002-03 | 66   | 270-2000-00 | 79   | 680-2000-00 | 13   | 752F.401-00 | 40   | 762F.700-W0 | 54   |
| 200-1110-00  | 64   | 200-6002-04 | 66   | 270-3000-00 | 79   | 680-2000-W0 | 13   | 752F.401-00 | 42   | 762F.700-W0 | 56   |
| 200-1120-00  | 64   | 200-6003-00 | 66   | 280-0001-00 | 80   | 680-4000-00 | 12   | 752F.401-00 | 44   | 762F.700-W0 | 58   |
| 200-1140-00  | 64   | 200-6004-00 | 65   | 280-0003-00 | 80   | 680-4000-W0 | 12   | 752F.401-00 | 46   | 762F.700-WP | 50   |
| 200-1150-00  | 64   | 200-6004-00 | 66   | 280-0004-00 | 80   | 680-6000-00 | 12   | 752F.401-00 | 48   | 762F.700-WP | 52   |
| 200-1160-00  | 64   | 200-7000-00 | 69   | 280-0010-00 | 81   | 680-6000-W0 | 12   | 752F.401-0P | 40   | 762F.700-WP | 54   |
| 200-1170-00  | 64   | 200-7000-W0 | 69   | 280-3100-00 | 80   | 690-2000-00 | 4    | 752F.401-0P | 42   | 762F.700-WP | 56   |
| 200-1180-00  | 64   | 200-7001-00 | 65   | 300-0003-00 | 86   | 690-2000-W0 | 4    | 752F.401-0P | 44   | 762F.700-WP | 58   |
| 200-1190-00  | 64   | 200-7003-00 | 67   | 300-0004-00 | 87   | 690-4000-00 | 4    | 752F.401-0P | 46   | 771F.401-00 | 25   |
| 200-1220-00  | 64   | 200-7009-W0 | 73   | 300-0005-00 | 87   | 690-4000-W0 | 4    | 752F.401-0P | 48   | 771F.401-00 | 28   |
| 200-1240-00  | 64   | 200-7110-00 | 64   | 300-0010-00 | 84   | 690-6000-00 | 4    | 761F.401-00 | 25   | 771F.401-00 | 31   |
| 200-1250-00  | 64   | 200-7120-00 | 64   | 300-0020-00 | 84   | 690-6000-W0 | 4    | 761F.401-00 | 28   | 771F.401-00 | 34   |
| 200-1260-00  | 64   | 200-7140-00 | 64   | 300-0050-00 | 84   | 712F.401-00 | 40   | 761F.401-00 | 31   | 771F.401-00 | 37   |
| 200-1270-00  | 64   | 200-7140-W0 | 64   | 31-923      | 72   | 712F.401-00 | 42   | 761F.401-00 | 34   | 771F.401-0P | 25   |
| 200-1300-01  | 75   | 200-7150-00 | 64   | 31-924.2    | 72   | 712F.401-00 | 44   | 761F.401-00 | 37   | 771F.401-0P | 28   |
| 200-1300-02  | 75   | 200-7160-00 | 64   | 51-920      | 71   | 712F.401-00 | 46   | 761F.401-0P | 25   | 771F.401-0P | 31   |
| 200-1300-03  | 75   | 200-7160-W0 | 64   | 51-925      | 71   | 712F.401-00 | 48   | 761F.401-0P | 28   | 771F.401-0P | 34   |
| 200-1300-08  | 75   | 200-7170-00 | 64   |             |      | 712F.401-0P | 40   | 761F.401-0P | 31   | 771F.401-0P | 37   |
| 200-2000-00  | 69   | 200-7190-00 | 64   |             |      | 712F.401-0P | 42   | 761F.401-0P | 34   | 771F.401-W0 | 25   |

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|-------------|------|-------------|------|-------------|------|-------------|------|-------------|-------|----------|-------|
| 771F.401-W0 | 28   | 901F.000-00 | 18   | 912F.700-00 | 51   | 923F.401-W0 | 32   | 990-.000-0P | 8     |          |       |
| 771F.401-W0 | 31   | 901F.000-00 | 20   | 912F.700-00 | 53   | 923F.401-W0 | 35   | 990-.000-0P | 9     |          |       |
| 771F.401-W0 | 34   | 901F.000-00 | 22   | 912F.700-00 | 55   | 923F.401-WP | 26   | 990-.000-K0 | 5     |          |       |
| 771F.401-W0 | 37   | 901F.000-0P | 14   | 912F.700-00 | 57   | 923F.401-WP | 29   | 990-.000-K0 | 6     |          |       |
| 771F.401-WP | 25   | 901F.000-0P | 16   | 912F.700-00 | 59   | 923F.401-WP | 32   | 990-.000-K0 | 7     |          |       |
| 771F.401-WP | 28   | 901F.000-0P | 18   | 912F.700-0P | 51   | 923F.401-WP | 35   | 990-.000-K0 | 8     |          |       |
| 771F.401-WP | 31   | 901F.000-0P | 20   | 912F.700-0P | 53   | 931-.401-00 | 38   | 990-.000-K0 | 9     |          |       |
| 771F.401-WP | 34   | 901F.000-0P | 22   | 912F.700-0P | 55   | 931-.401-0P | 38   |             |       |          |       |
| 771F.401-WP | 37   | 902F.000-00 | 14   | 912F.700-0P | 57   | 931-.401-WP | 38   |             |       |          |       |
| 772F.401-00 | 25   | 902F.000-00 | 16   | 912F.700-0P | 59   | 931F.401-00 | 26   |             |       |          |       |
| 772F.401-00 | 28   | 902F.000-00 | 18   | 912F.700-W0 | 51   | 931F.401-00 | 29   |             |       |          |       |
| 772F.401-00 | 31   | 902F.000-00 | 20   | 912F.700-W0 | 53   | 931F.401-00 | 32   |             |       |          |       |
| 772F.401-00 | 34   | 902F.000-00 | 22   | 912F.700-W0 | 55   | 931F.401-0P | 26   |             |       |          |       |
| 772F.401-00 | 37   | 902F.000-0P | 14   | 912F.700-W0 | 57   | 931F.401-0P | 29   |             |       |          |       |
| 772F.401-W0 | 26   | 902F.000-0P | 16   | 913-.401-00 | 38   | 931F.401-0P | 32   |             |       |          |       |
| 772F.401-W0 | 29   | 902F.000-0P | 18   | 913-.401-W0 | 38   | 931F.401-0P | 35   |             |       |          |       |
| 772F.401-W0 | 32   | 902F.000-0P | 20   | 913F.401-00 | 26   | 931F.401-WP | 26   |             |       |          |       |
| 772F.401-W0 | 35   | 902F.000-0P | 22   | 913F.401-00 | 29   | 931F.401-WP | 29   |             |       |          |       |
| 772F.401-W0 | 38   | 903F.000-00 | 14   | 913F.401-00 | 32   | 931F.401-WP | 32   |             |       |          |       |
| 781F.401-00 | 25   | 903F.000-00 | 16   | 913F.401-00 | 35   | 932-.401-00 | 38   |             |       |          |       |
| 781F.401-00 | 28   | 903F.000-00 | 18   | 913F.401-W0 | 26   | 932-.401-W0 | 38   |             |       |          |       |
| 781F.401-00 | 31   | 903F.000-00 | 20   | 913F.401-W0 | 29   | 932F.401-00 | 26   |             |       |          |       |
| 781F.401-00 | 34   | 903F.000-00 | 22   | 913F.401-W0 | 32   | 932F.401-00 | 29   |             |       |          |       |
| 781F.401-00 | 37   | 903F.000-0P | 14   | 913F.401-W0 | 35   | 932F.401-00 | 32   |             |       |          |       |
| 781F.401-0P | 25   | 903F.000-0P | 16   | 913F.700-00 | 51   | 932F.401-00 | 35   |             |       |          |       |
| 781F.401-0P | 28   | 903F.000-0P | 18   | 913F.700-00 | 53   | 932F.401-0P | 26   |             |       |          |       |
| 781F.401-0P | 31   | 903F.000-0P | 20   | 913F.700-00 | 55   | 932F.401-0P | 29   |             |       |          |       |
| 781F.401-0P | 34   | 903F.000-0P | 22   | 913F.700-00 | 57   | 932F.401-0P | 32   |             |       |          |       |
| 781F.401-0P | 37   | 911-.401-00 | 38   | 913F.700-00 | 59   | 932F.401-0P | 35   |             |       |          |       |
| 781F.401-W0 | 26   | 911-.401-W0 | 38   | 913F.700-0P | 51   | 932F.401-W0 | 26   |             |       |          |       |
| 781F.401-W0 | 29   | 911F.401-00 | 26   | 913F.700-0P | 53   | 932F.401-W0 | 29   |             |       |          |       |
| 781F.401-W0 | 32   | 911F.401-00 | 29   | 913F.700-0P | 55   | 932F.401-W0 | 32   |             |       |          |       |
| 781F.401-W0 | 35   | 911F.401-00 | 32   | 913F.700-0P | 57   | 932F.401-W0 | 35   |             |       |          |       |
| 781F.401-W0 | 38   | 911F.401-00 | 35   | 913F.700-0P | 59   | 933-.401-00 | 38   |             |       |          |       |
| 781F.401-WP | 25   | 911F.401-0P | 26   | 913F.700-W0 | 51   | 933-.401-W0 | 38   |             |       |          |       |
| 781F.401-WP | 28   | 911F.401-0P | 29   | 913F.700-W0 | 53   | 933F.401-00 | 26   |             |       |          |       |
| 781F.401-WP | 31   | 911F.401-0P | 32   | 913F.700-W0 | 55   | 933F.401-00 | 29   |             |       |          |       |
| 781F.401-WP | 34   | 911F.401-0P | 35   | 913F.700-W0 | 57   | 933F.401-00 | 32   |             |       |          |       |
| 781F.401-WP | 37   | 911F.401-W0 | 26   | 921-.401-00 | 38   | 933F.401-00 | 35   |             |       |          |       |
| 781F.700-00 | 50   | 911F.401-W0 | 29   | 921-.401-0P | 38   | 933F.401-W0 | 26   |             |       |          |       |
| 781F.700-00 | 52   | 911F.401-W0 | 32   | 921F.401-00 | 26   | 933F.401-W0 | 29   |             |       |          |       |
| 781F.700-00 | 54   | 911F.401-W0 | 35   | 921F.401-00 | 29   | 933F.401-W0 | 32   |             |       |          |       |
| 781F.700-00 | 56   | 911F.700-00 | 51   | 921F.401-00 | 32   | 933F.401-W0 | 35   |             |       |          |       |
| 781F.700-00 | 58   | 911F.700-00 | 53   | 921F.401-00 | 35   | 933F.401-WP | 26   |             |       |          |       |
| 781F.700-W0 | 50   | 911F.700-00 | 55   | 921F.401-00 | 38   | 933F.401-WP | 29   |             |       |          |       |
| 781F.700-W0 | 52   | 911F.700-00 | 57   | 921F.401-0P | 26   | 933F.401-WP | 32   |             |       |          |       |
| 781F.700-W0 | 54   | 911F.700-0P | 51   | 921F.401-0P | 29   | 933F.401-WP | 35   |             |       |          |       |
| 781F.700-W0 | 56   | 911F.700-0P | 53   | 921F.401-0P | 32   | 951F2000-00 | 23   |             |       |          |       |
| 781F.700-W0 | 58   | 911F.700-0P | 55   | 921F.401-0P | 35   | 951F2000-W0 | 23   |             |       |          |       |
| 782F.401-00 | 25   | 911F.700-0P | 57   | 921F.401-WP | 26   | 952F2000-00 | 23   |             |       |          |       |
| 782F.401-00 | 28   | 911F.700-0P | 59   | 921F.401-WP | 29   | 952F2000-W0 | 23   |             |       |          |       |
| 782F.401-00 | 31   | 911F.700-W0 | 51   | 921F.401-WP | 32   | 953F2000-00 | 23   |             |       |          |       |
| 782F.401-00 | 34   | 911F.700-W0 | 53   | 922-.401-00 | 38   | 953F2000-W0 | 23   |             |       |          |       |
| 782F.401-00 | 37   | 911F.700-W0 | 55   | 922-.401-W0 | 38   | 961F2401-00 | 24   |             |       |          |       |
| 782F.401-W0 | 26   | 911F.700-W0 | 57   | 922F.401-00 | 26   | 961F2401-W0 | 24   |             |       |          |       |
| 782F.401-W0 | 29   | 911F.700-W0 | 59   | 922F.401-00 | 29   | 962F2401-00 | 24   |             |       |          |       |
| 782F.401-W0 | 32   | 911F.700-WP | 51   | 922F.401-00 | 32   | 962F2401-W0 | 24   |             |       |          |       |
| 782F.401-W0 | 35   | 911F.700-WP | 53   | 922F.401-00 | 35   | 963F2401-00 | 24   |             |       |          |       |
| 782F.401-W0 | 38   | 911F.700-WP | 55   | 922F.401-W0 | 26   | 963F2401-W0 | 24   |             |       |          |       |
| 782F.700-00 | 50   | 911F.700-WP | 57   | 922F.401-W0 | 29   | 970-.000-00 | 10   |             |       |          |       |
| 782F.700-00 | 52   | 912-.401-00 | 38   | 922F.401-W0 | 32   | 970-.000-0P | 11   |             |       |          |       |
| 782F.700-00 | 54   | 912-.401-0P | 38   | 922F.401-W0 | 35   | 970-.000-0P | 11   |             |       |          |       |
| 782F.700-00 | 56   | 912-.401-W0 | 38   | 923-.401-00 | 38   | 970-.000-K0 | 10   |             |       |          |       |
| 782F.700-0P | 50   | 912F.401-00 | 26   | 923-.401-0P | 38   | 970-.000-K0 | 11   |             |       |          |       |
| 782F.700-0P | 52   | 912F.401-00 | 29   | 923-.401-W0 | 38   | 970-0012-00 | 68   |             |       |          |       |
| 782F.700-0P | 54   | 912F.401-00 | 32   | 923F.401-00 | 26   | 970-0024-00 | 68   |             |       |          |       |
| 782F.700-0P | 56   | 912F.401-00 | 35   | 923F.401-00 | 29   | 970-5012-00 | 68   |             |       |          |       |
| 782F.700-0P | 58   | 912F.401-0P | 26   | 923F.401-00 | 32   | 970-5024-00 | 68   |             |       |          |       |
| 782F.700-W0 | 52   | 912F.401-0P | 29   | 923F.401-0P | 26   | 970-6012-00 | 68   |             |       |          |       |
| 782F.700-W0 | 54   | 912F.401-0P | 32   | 923F.401-0P | 29   | 970-6024-00 | 68   |             |       |          |       |
| 782F.700-W0 | 56   | 912F.401-0P | 35   | 923F.401-0P | 32   | 970-9024-00 | 68   |             |       |          |       |
| 782F.700-W0 | 58   | 912F.401-W0 | 26   | 923F.401-0P | 35   | 990-.000-0P | 5    |             |       |          |       |
| 792F1000-00 | 60   | 912F.401-W0 | 29   | 923F.401-W0 | 26   | 990-.000-0P | 6    |             |       |          |       |
| 792F2000-00 | 60   | 912F.401-W0 | 32   | 923F.401-W0 | 29   | 990-.000-0P | 7    |             |       |          |       |
| 901F.000-00 | 14   | 912F.401-W0 | 35   |             |      |             |      |             |       |          |       |
| 901F.000-00 | 16   |             |      |             |      |             |      |             |       |          |       |

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